

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY071823\  
 Data File : VY014699.D  
 Acq On : 18 Jul 2023 14:09  
 Operator : SY/MD  
 Sample : 03648-01RE  
 Misc : 5.08g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 OK-01-071723RE

Quant Time: Jul 19 04:04:16 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y071323S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Jul 14 02:09:50 2023  
 Response via : Initial Calibration

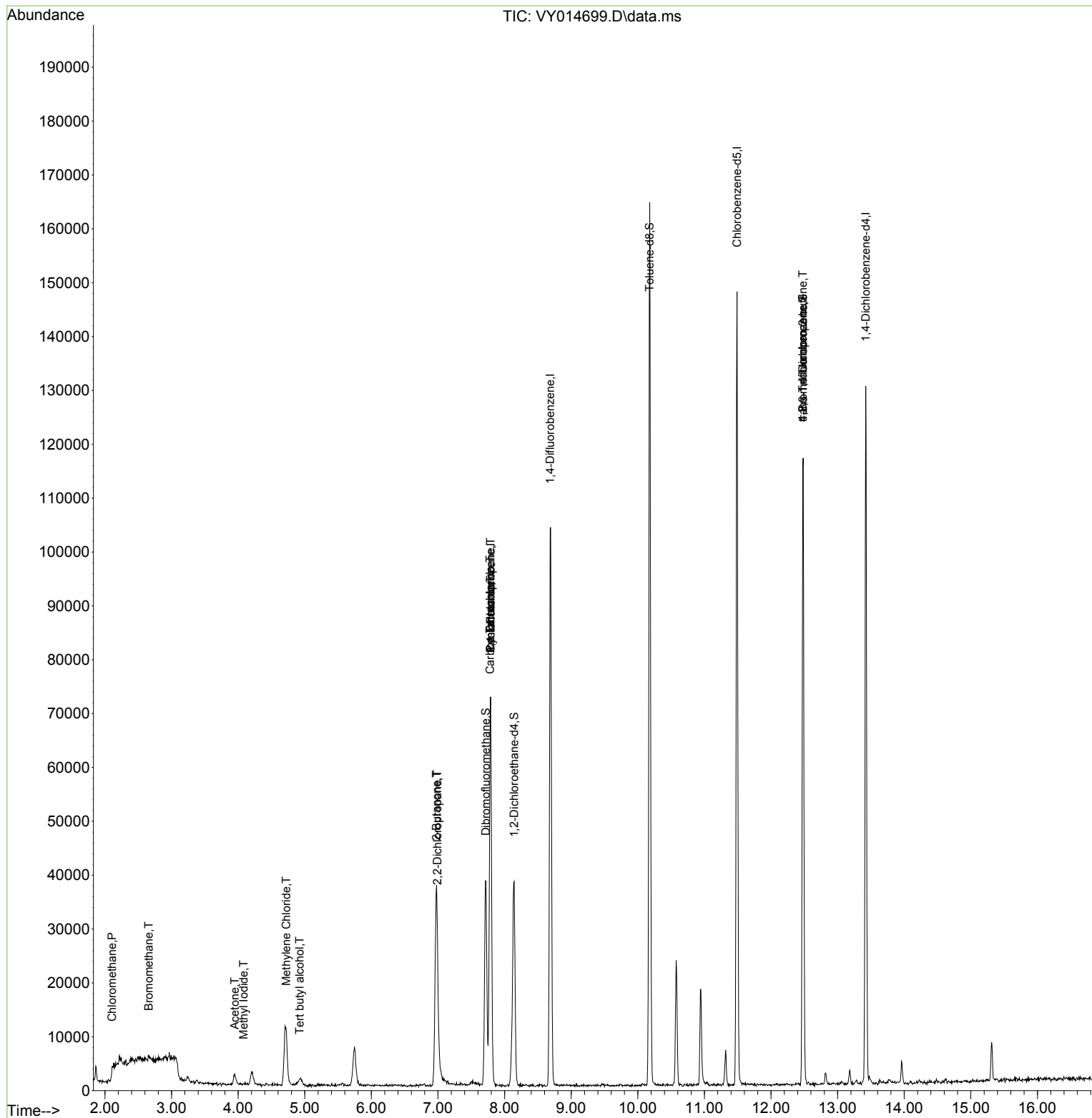
| Compound                      | R.T.           | QIon | Response   | Conc    | Units  | Dev(Min) |
|-------------------------------|----------------|------|------------|---------|--------|----------|
| -----                         |                |      |            |         |        |          |
| Internal Standards            |                |      |            |         |        |          |
| 1) Pentafluorobenzene         | 7.789          | 168  | 55835      | 50.000  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.685          | 114  | 92144      | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.489         | 117  | 77570      | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.422         | 152  | 33336      | 50.000  | ug/l   | 0.00     |
|                               |                |      |            |         |        |          |
| System Monitoring Compounds   |                |      |            |         |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.142          | 65   | 28376      | 44.598  | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 50 - 163 |      | Recovery = | 89.200% |        |          |
| 35) Dibromofluoromethane      | 7.716          | 113  | 27636      | 47.115  | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 54 - 147 |      | Recovery = | 94.220% |        |          |
| 50) Toluene-d8                | 10.179         | 98   | 107085     | 49.518  | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 58 - 134 |      | Recovery = | 99.040% |        |          |
| 62) 4-Bromofluorobenzene      | 12.477         | 95   | 34876      | 42.060  | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 30 - 143 |      | Recovery = | 84.120% |        |          |
|                               |                |      |            |         |        |          |
| Target Compounds              |                |      | Qvalue     |         |        |          |
| 3) Chloromethane              | 2.107          | 50   | 648        | 1.267   | ug/l # | 84       |
| 5) Bromomethane               | 2.656          | 94   | 566        | 1.499   | ug/l # | 71       |
| 10) Methyl Iodide             | 4.082          | 142  | 347        | 2.900   | ug/l # | 38       |
| 11) Tert butyl alcohol        | 4.923          | 59   | 1887       | 2.645   | ug/l # | 89       |
| 16) Acetone                   | 3.948          | 43   | 3563       | 17.672  | ug/l # | 87       |
| 20) Methylene Chloride        | 4.722          | 84   | 8745       | 9.971   | ug/l # | 83       |
| 25) 2-Butanone                | 6.978          | 43   | 2355       | 7.984   | ug/l # | 72       |
| 26) 2,2-Dichloropropane       | 6.990          | 77   | 2826       | 2.611   | ug/l # | 54       |
| 31) Cyclohexane               | 7.789          | 56   | 1214       | 1.149   | ug/l # | 1        |
| 36) 1,1-Dichloropropene       | 7.789          | 75   | 5039       | 5.744   | ug/l # | 49       |
| 38) Carbon Tetrachloride      | 7.783          | 117  | 5633       | 6.075   | ug/l # | 15       |
| 76) 1,2,3-Trichloropropane    | 12.477         | 75   | 18686      | 44.382  | ug/l # | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.477         | 75   | 18686      | 85.932  | ug/l # | 11       |
| -----                         |                |      |            |         |        |          |

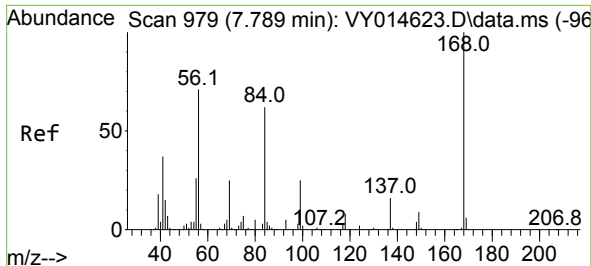
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY071823\  
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MSVOA\_Y  
ClientSampleId :  
OK-01-071723RE

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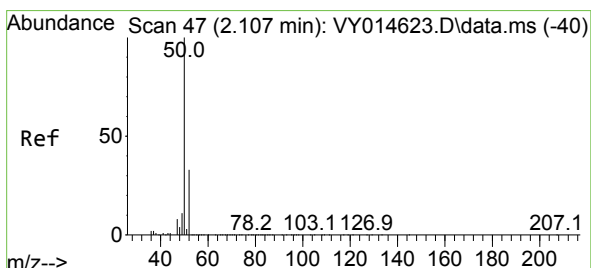
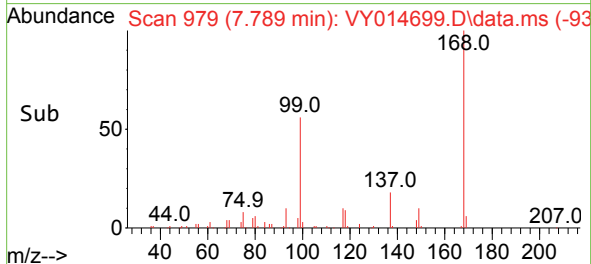
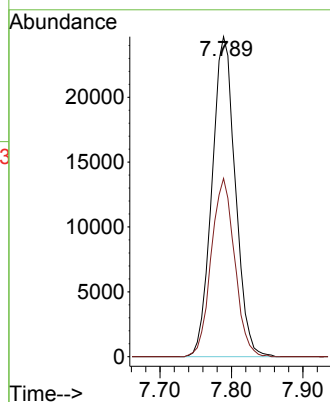
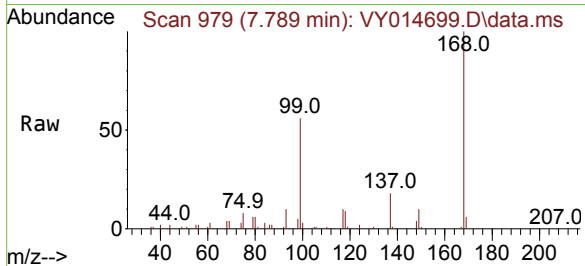




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.789 min Scan# 91  
Delta R.T. -0.000 min  
Lab File: VY014699.D  
Acq: 18 Jul 2023 14:09

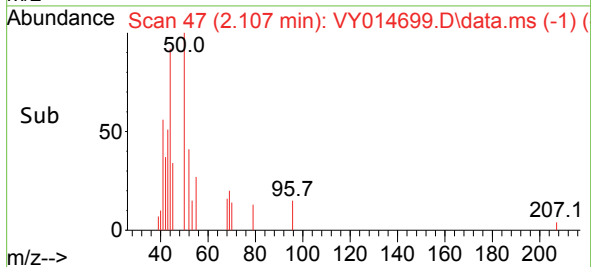
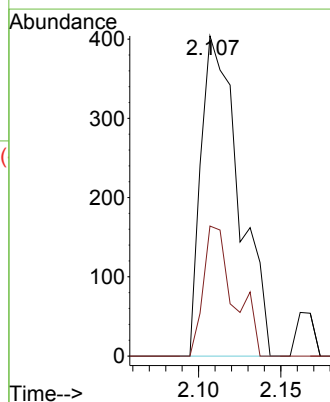
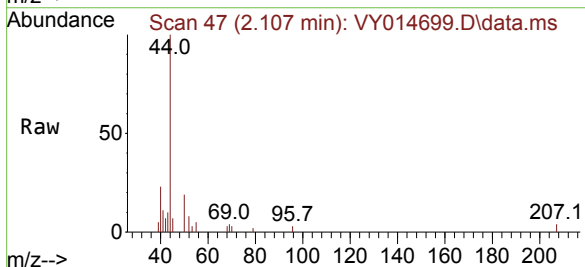
Instrument :  
MSVOA\_Y  
ClientSampleId :  
OK-01-071723RE

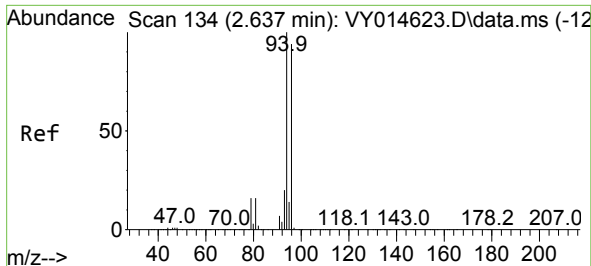
Tgt Ion:168 Resp: 55835  
Ion Ratio Lower Upper  
168 100  
99 55.7 43.4 65.0



#3  
Chloromethane  
Concen: 1.267 ug/l  
RT: 2.107 min Scan# 47  
Delta R.T. -0.000 min  
Lab File: VY014699.D  
Acq: 18 Jul 2023 14:09

Tgt Ion: 50 Resp: 648  
Ion Ratio Lower Upper  
50 100  
52 40.6 25.4 38.2#

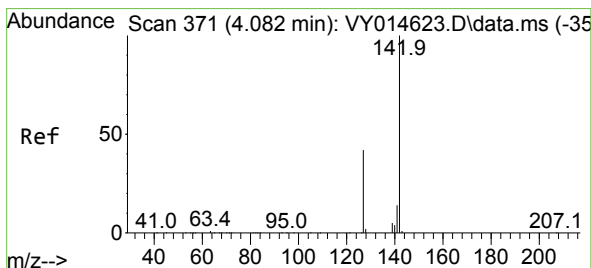
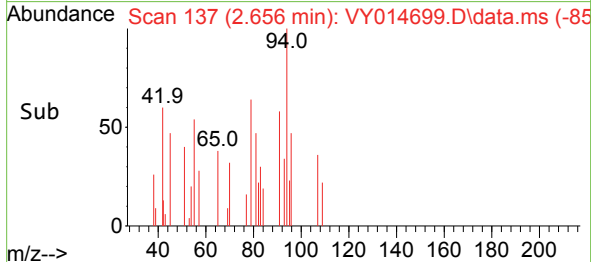
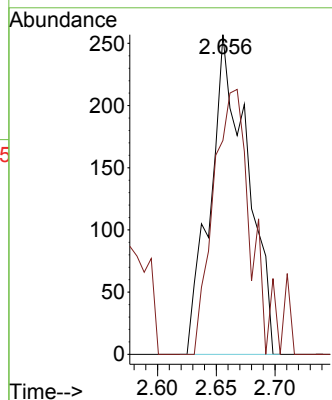
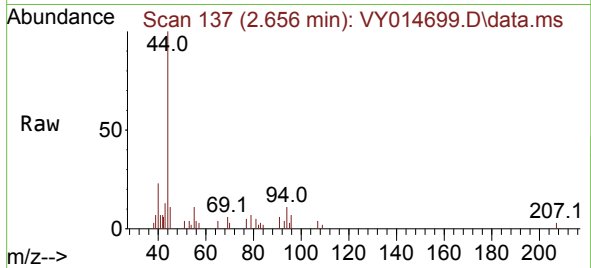




#5  
Bromomethane  
Concen: 1.499 ug/l  
RT: 2.656 min Scan# 11  
Delta R.T. 0.019 min  
Lab File: VY014699.D  
Acq: 18 Jul 2023 14:09

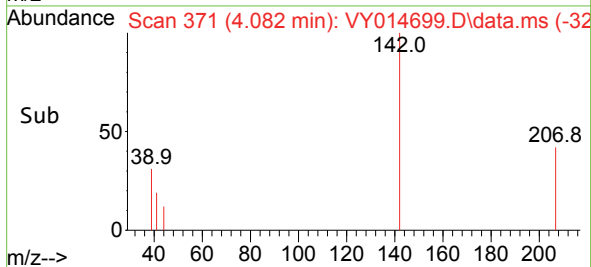
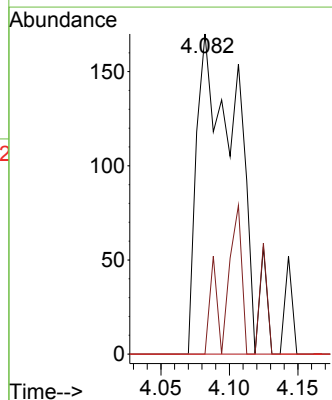
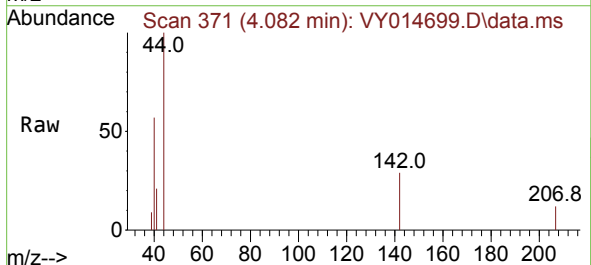
Instrument :  
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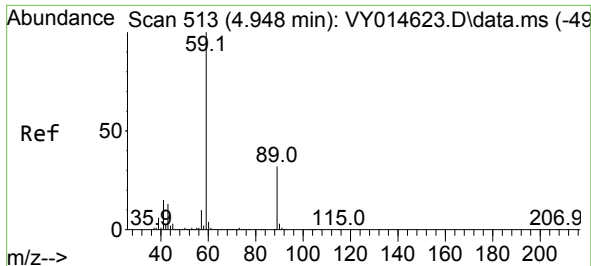
Tgt Ion: 94 Resp: 566  
Ion Ratio Lower Upper  
94 100  
96 66.9 75.8 113.6#



#10  
Methyl Iodide  
Concen: 2.900 ug/l  
RT: 4.082 min Scan# 371  
Delta R.T. 0.000 min  
Lab File: VY014699.D  
Acq: 18 Jul 2023 14:09

Tgt Ion: 142 Resp: 347  
Ion Ratio Lower Upper  
142 100  
127 0.0 37.6 56.4#  
141 0.0 11.8 17.8#

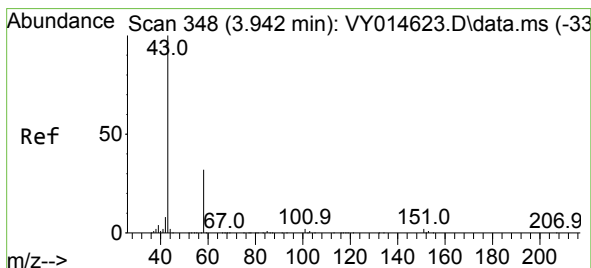
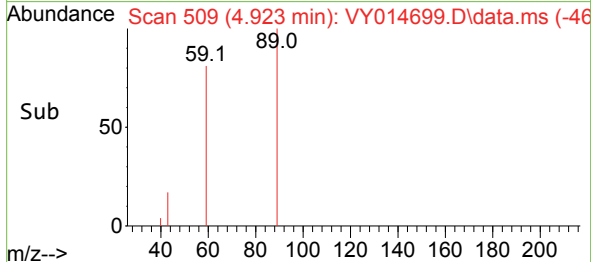
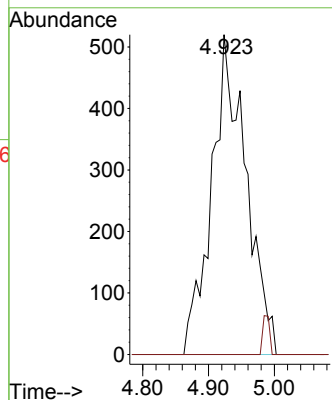
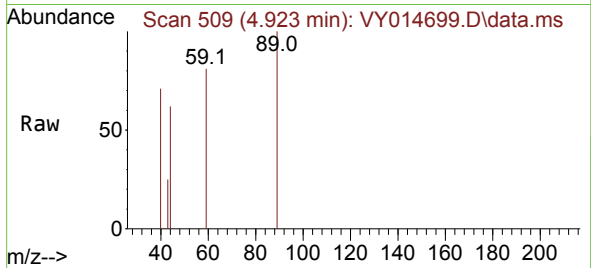




#11  
Tert butyl alcohol  
Concen: 2.645 ug/l  
RT: 4.923 min Scan# 509  
Delta R.T. -0.025 min  
Lab File: VY014699.D  
Acq: 18 Jul 2023 14:09

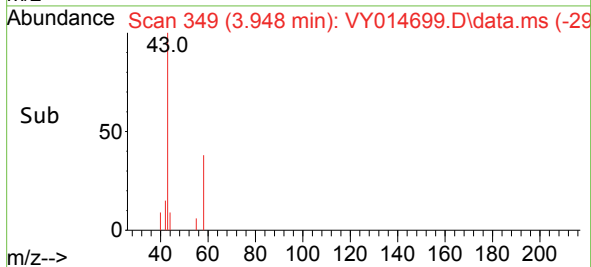
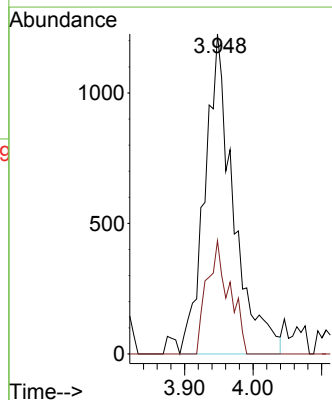
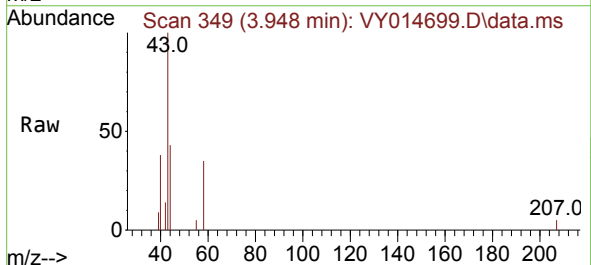
Instrument :  
MSVOA\_Y  
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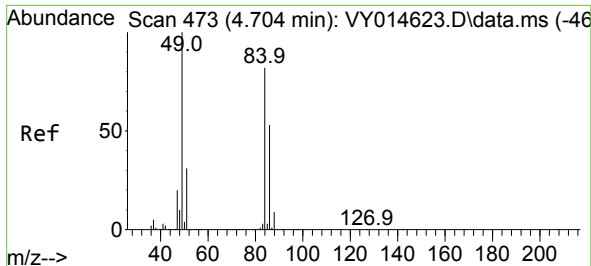
Tgt Ion: 59 Resp: 1887  
Ion Ratio Lower Upper  
59 100  
57 0.0 3.0 4.4#



#16  
Acetone  
Concen: 17.672 ug/l  
RT: 3.948 min Scan# 349  
Delta R.T. 0.006 min  
Lab File: VY014699.D  
Acq: 18 Jul 2023 14:09

Tgt Ion: 43 Resp: 3563  
Ion Ratio Lower Upper  
43 100  
58 35.4 22.7 34.1#

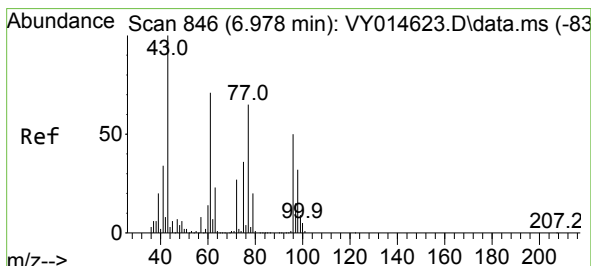
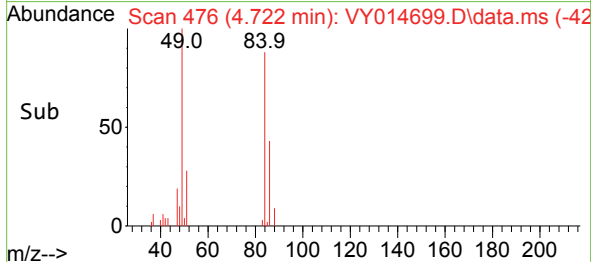
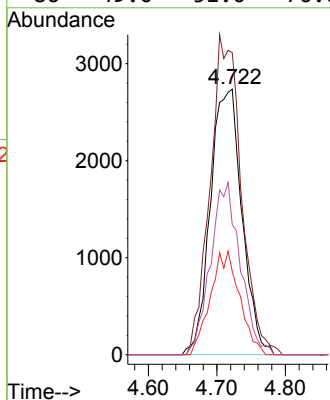
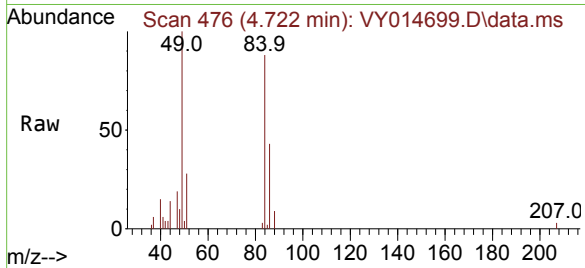




#20  
Methylene Chloride  
Concen: 9.971 ug/l  
RT: 4.722 min Scan# 41  
Delta R.T. 0.018 min  
Lab File: VY014699.D  
Acq: 18 Jul 2023 14:09

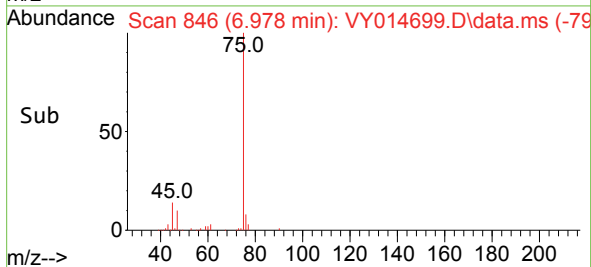
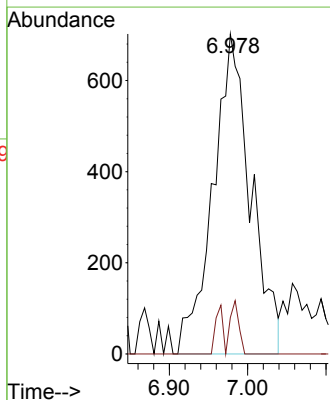
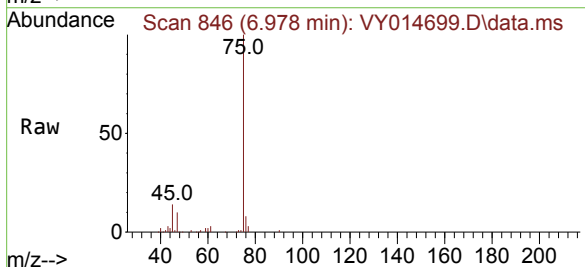
Instrument :  
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ClientSampleId :  
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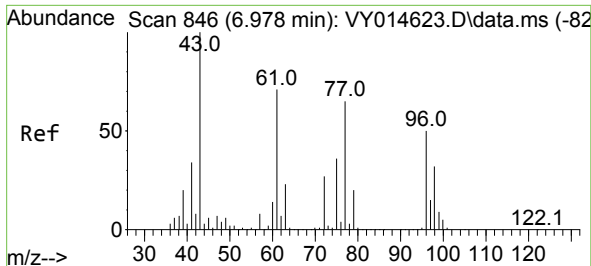
Tgt Ion: 84 Resp: 8745  
Ion Ratio Lower Upper  
84 100  
49 113.7 106.9 160.3  
51 31.3 33.2 49.8#  
86 49.0 51.0 76.6#



#25  
2-Butanone  
Concen: 7.984 ug/l  
RT: 6.978 min Scan# 846  
Delta R.T. -0.000 min  
Lab File: VY014699.D  
Acq: 18 Jul 2023 14:09

Tgt Ion: 43 Resp: 2355  
Ion Ratio Lower Upper  
43 100  
72 11.4 20.5 30.7#

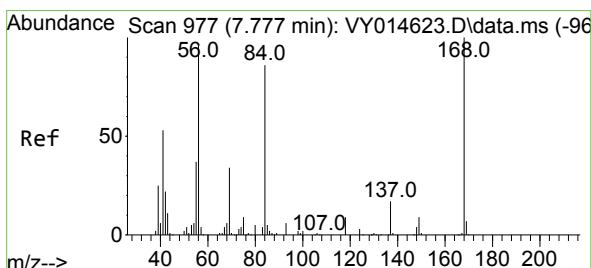
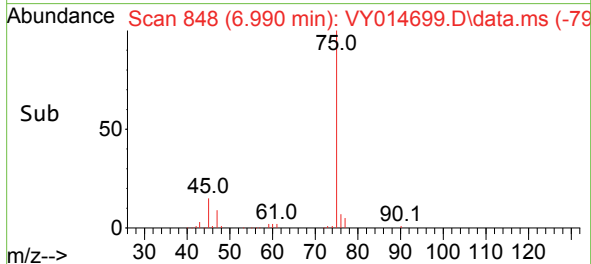
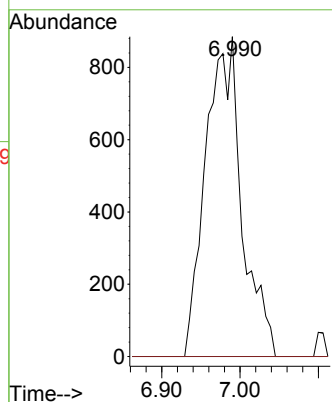
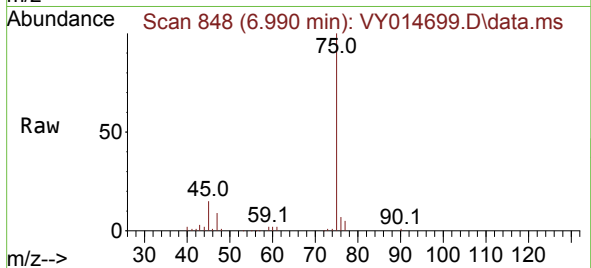




#26  
2,2-Dichloropropane  
Concen: 2.611 ug/l  
RT: 6.990 min Scan# 846  
Delta R.T. 0.012 min  
Lab File: VY014699.D  
Acq: 18 Jul 2023 14:09

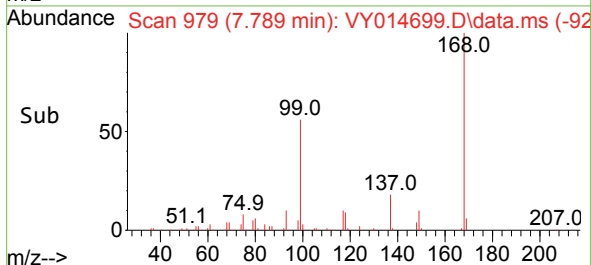
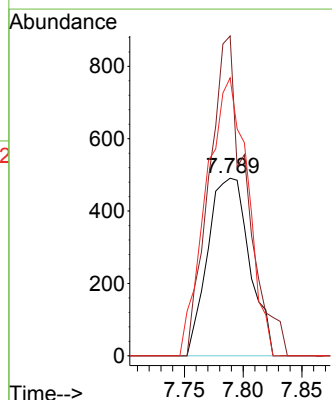
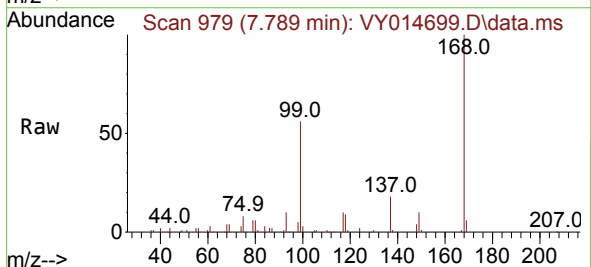
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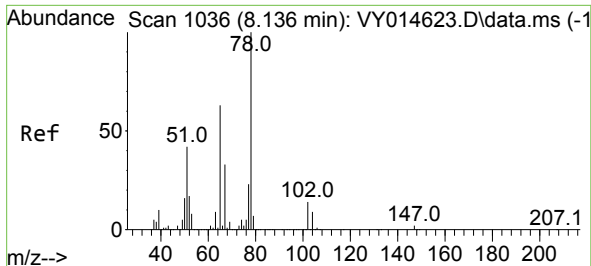
Tgt Ion: 77 Resp: 2826  
Ion Ratio Lower Upper  
77 100  
97 0.0 10.9 32.9#



#31  
Cyclohexane  
Concen: 1.149 ug/l  
RT: 7.789 min Scan# 979  
Delta R.T. 0.012 min  
Lab File: VY014699.D  
Acq: 18 Jul 2023 14:09

Tgt Ion: 56 Resp: 1214  
Ion Ratio Lower Upper  
56 100  
69 180.0 27.8 41.6#  
84 156.4 66.4 99.6#





#33

1,2-Dichloroethane-d4

Concen: 44.598 ug/l

RT: 8.142 min Scan# 1

Delta R.T. 0.006 min

Lab File: VY014699.D

Acq: 18 Jul 2023 14:09

Instrument :

MSVOA\_Y

ClientSampleId :

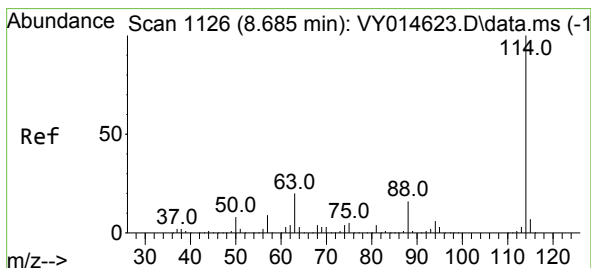
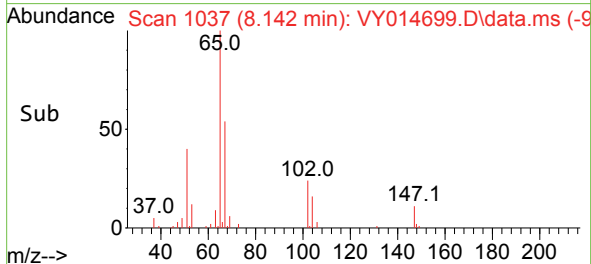
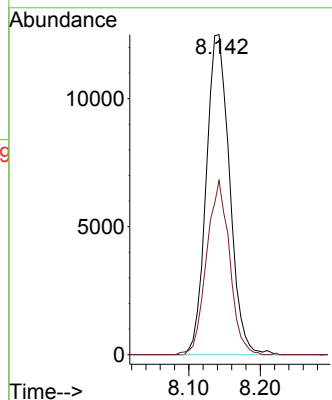
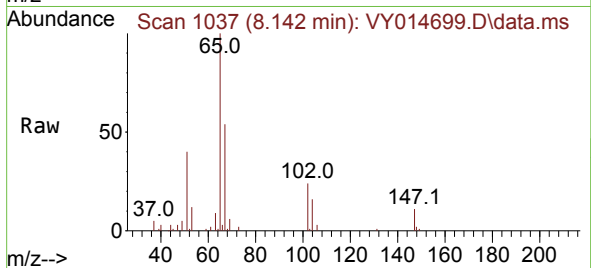
OK-01-071723RE

Tgt Ion: 65 Resp: 28376

Ion Ratio Lower Upper

65 100

67 53.5 0.0 101.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.685 min Scan# 1126

Delta R.T. 0.000 min

Lab File: VY014699.D

Acq: 18 Jul 2023 14:09

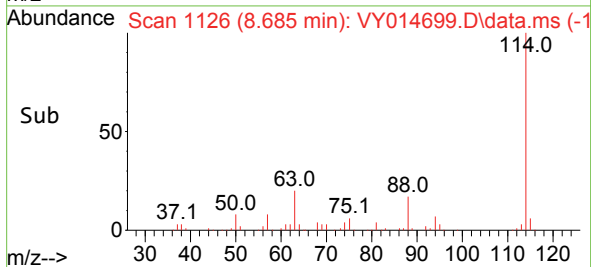
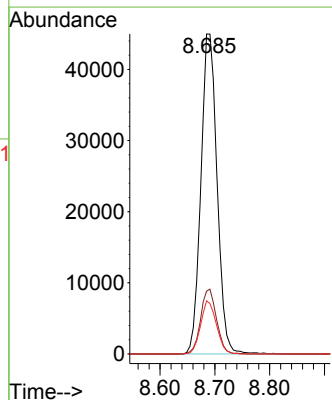
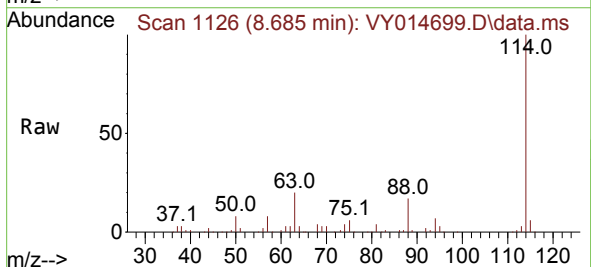
Tgt Ion: 114 Resp: 92144

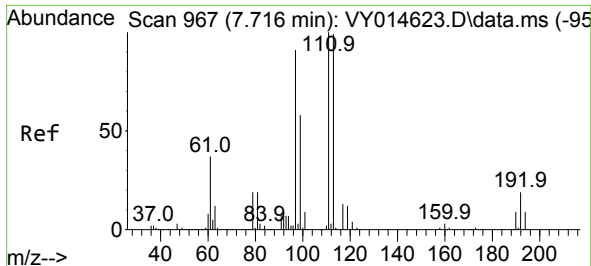
Ion Ratio Lower Upper

114 100

63 19.7 0.0 42.4

88 16.6 0.0 30.6

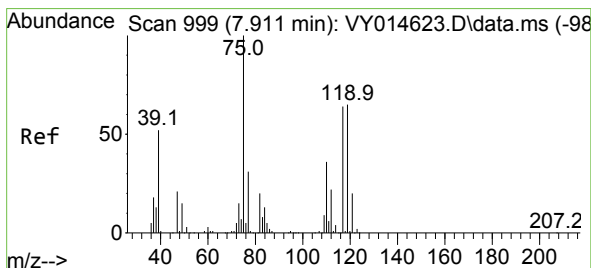
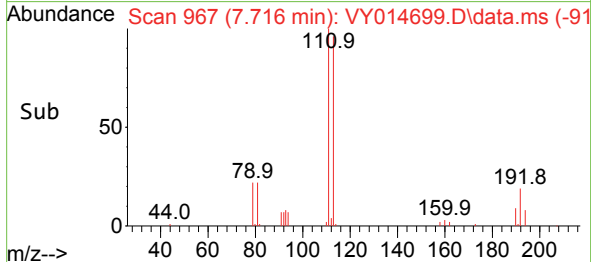
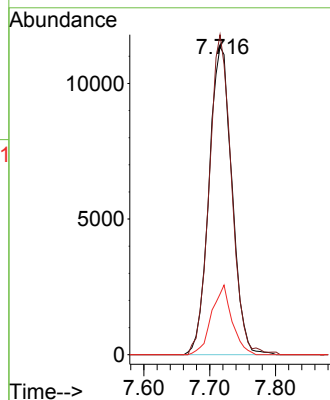
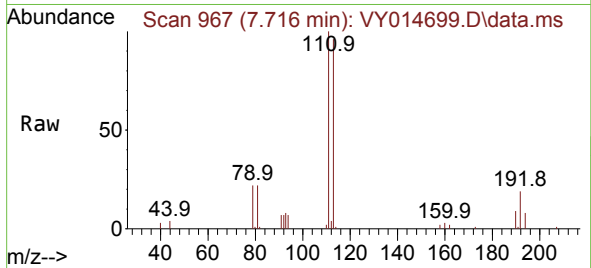




#35  
Dibromofluoromethane  
Concen: 47.115 ug/l  
RT: 7.716 min Scan# 911  
Delta R.T. -0.000 min  
Lab File: VY014699.D  
Acq: 18 Jul 2023 14:09

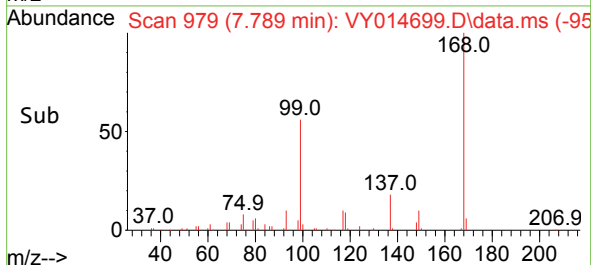
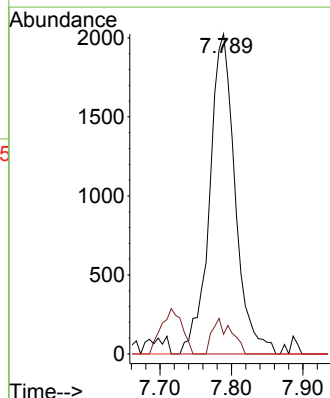
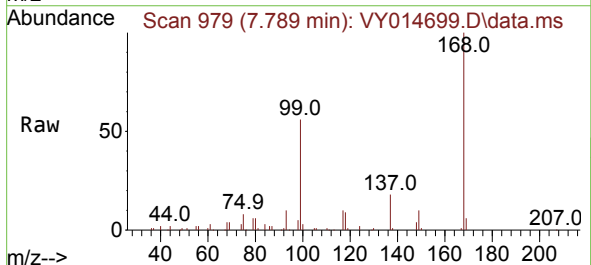
Instrument :  
MSVOA\_Y  
ClientSampleId :  
OK-01-071723RE

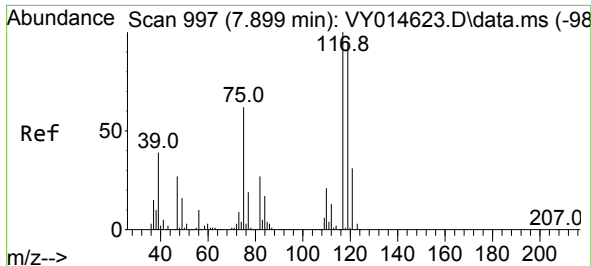
Tgt Ion:113 Resp: 27636  
Ion Ratio Lower Upper  
113 100  
111 100.7 81.3 121.9  
192 20.1 16.9 25.3



#36  
1,1-Dichloropropene  
Concen: 5.744 ug/l  
RT: 7.789 min Scan# 979  
Delta R.T. -0.122 min  
Lab File: VY014699.D  
Acq: 18 Jul 2023 14:09

Tgt Ion: 75 Resp: 5039  
Ion Ratio Lower Upper  
75 100  
110 8.3 17.8 53.5#  
77 0.0 24.4 36.6#

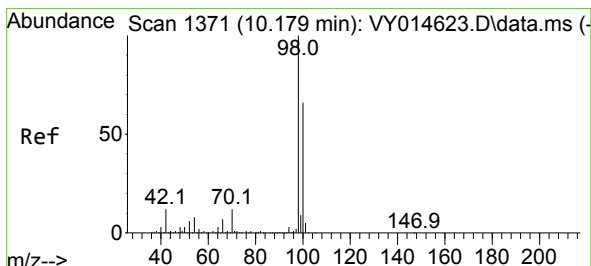
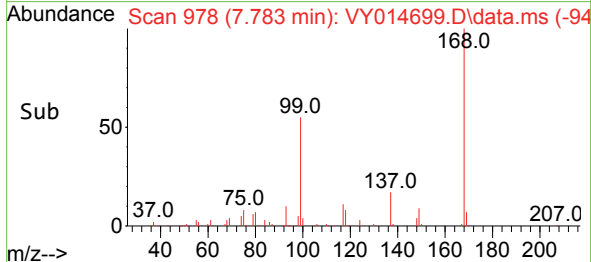
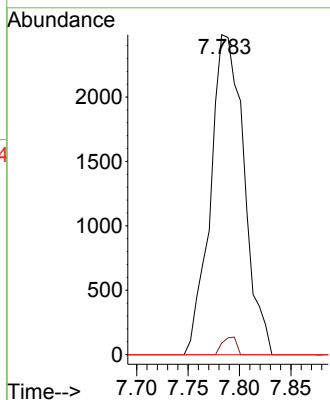
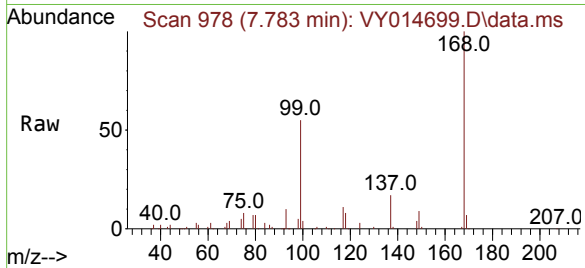




#38  
Carbon Tetrachloride  
Concen: 6.075 ug/l  
RT: 7.783 min Scan# 91  
Delta R.T. -0.116 min  
Lab File: VY014699.D  
Acq: 18 Jul 2023 14:09

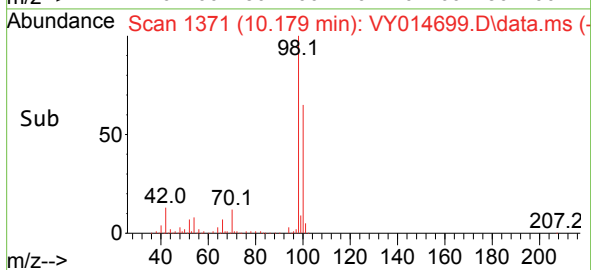
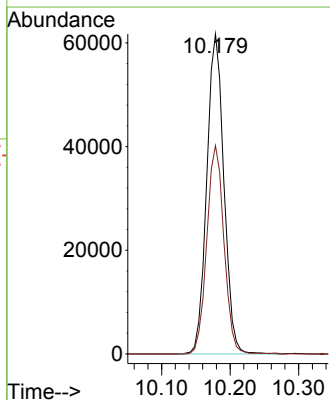
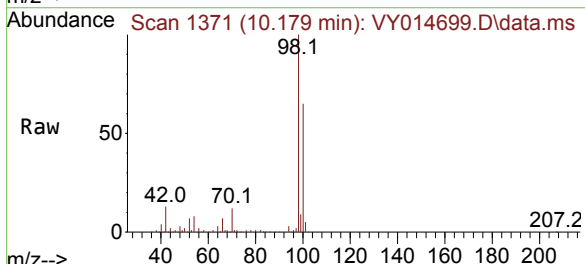
Instrument :  
MSVOA\_Y  
ClientSampleId :  
OK-01-071723RE

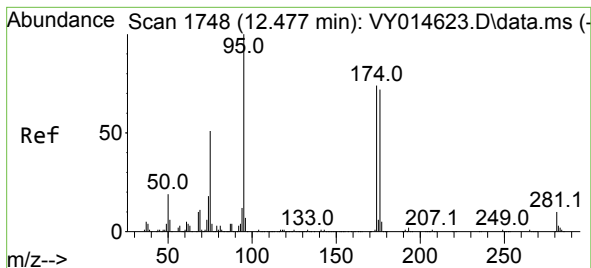
Tgt Ion:117 Resp: 5633  
Ion Ratio Lower Upper  
117 100  
119 3.6 76.4 114.6#  
121 0.0 25.8 38.6#



#50  
Toluene-d8  
Concen: 49.518 ug/l  
RT: 10.179 min Scan# 1371  
Delta R.T. -0.000 min  
Lab File: VY014699.D  
Acq: 18 Jul 2023 14:09

Tgt Ion: 98 Resp: 107085  
Ion Ratio Lower Upper  
98 100  
100 65.3 50.1 75.1

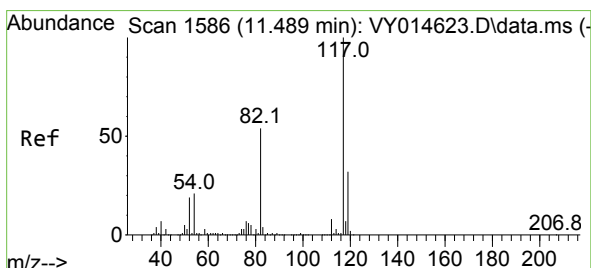
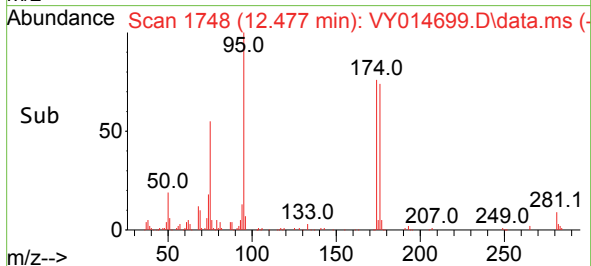
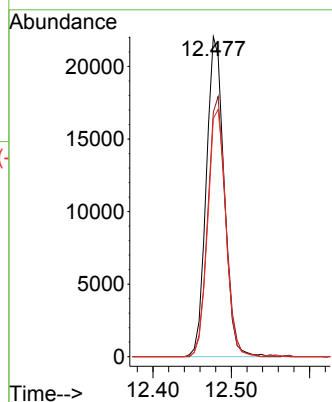
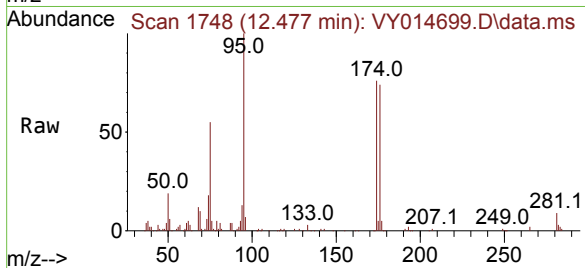




#62  
4-Bromofluorobenzene  
Concen: 42.060 ug/l  
RT: 12.477 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VY014699.D  
Acq: 18 Jul 2023 14:09

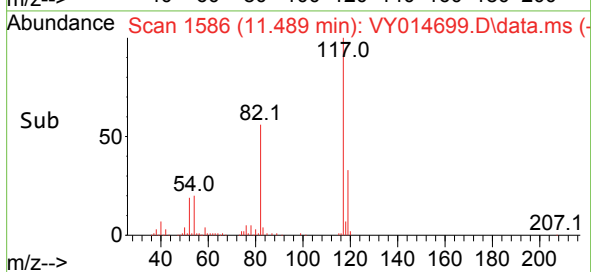
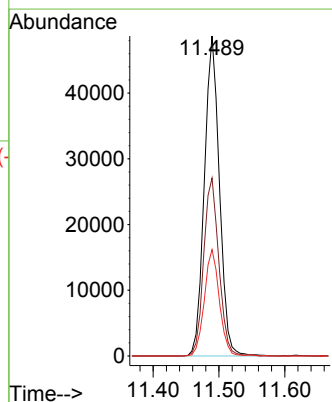
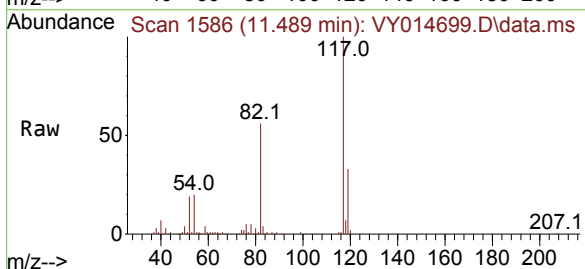
Instrument :  
MSVOA\_Y  
ClientSampleId :  
OK-01-071723RE

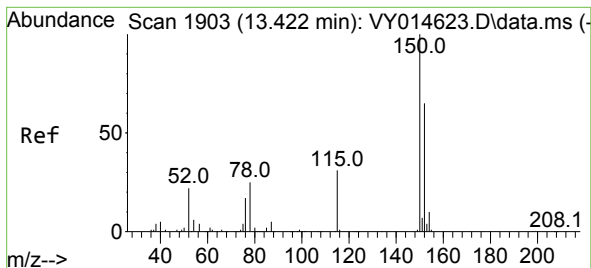
Tgt Ion: 95 Resp: 34876  
Ion Ratio Lower Upper  
95 100  
174 81.1 0.0 178.2  
176 78.3 0.0 173.8



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.489 min Scan# 1586  
Delta R.T. 0.000 min  
Lab File: VY014699.D  
Acq: 18 Jul 2023 14:09

Tgt Ion: 117 Resp: 77570  
Ion Ratio Lower Upper  
117 100  
82 55.6 43.4 65.0  
119 33.3 26.3 39.5

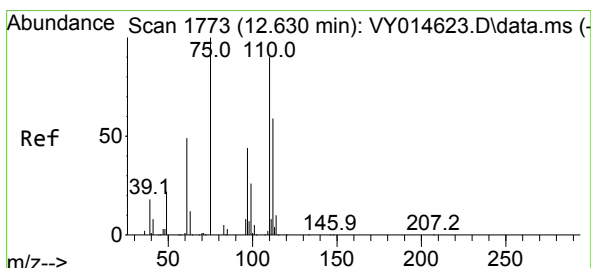
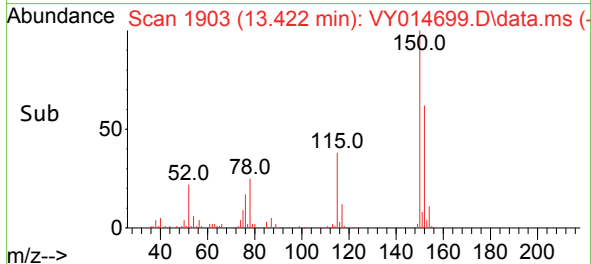
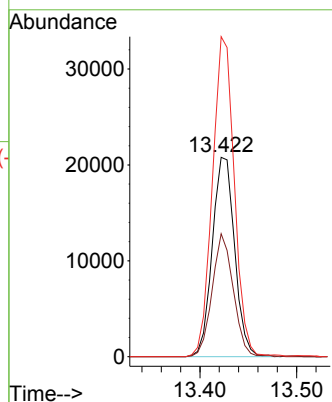
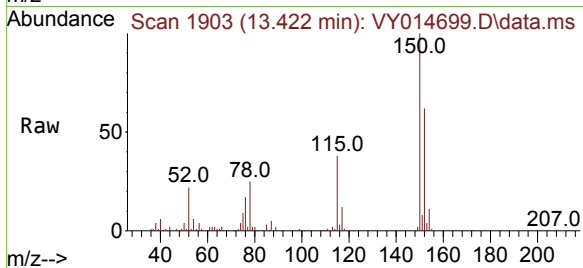




#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.000 ug/l  
 RT: 13.422 min Scan# 1903  
 Delta R.T. -0.000 min  
 Lab File: VY014699.D  
 Acq: 18 Jul 2023 14:09

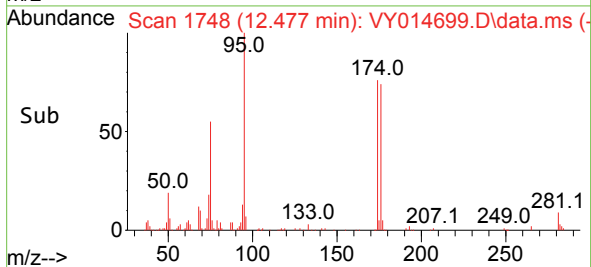
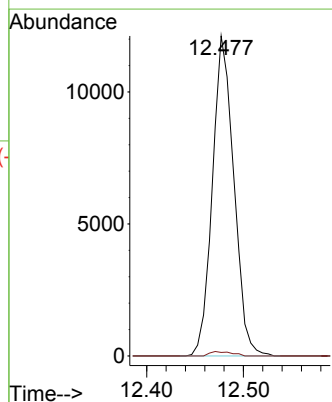
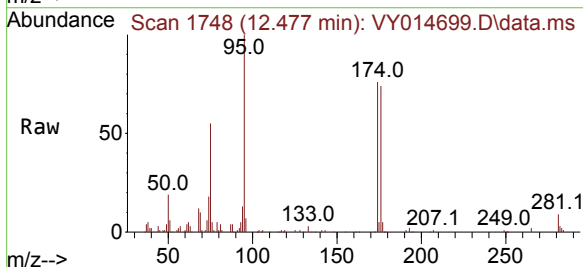
Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 OK-01-071723RE

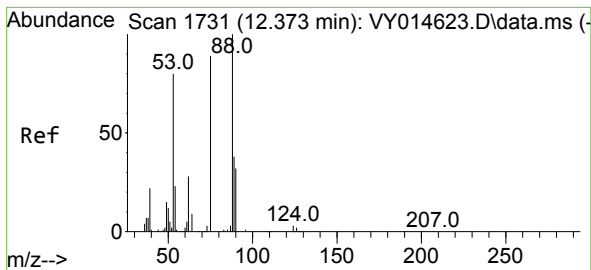
Tgt Ion:152 Resp: 33336  
 Ion Ratio Lower Upper  
 152 100  
 115 58.4 28.8 86.5  
 150 157.6 0.0 348.8



#76  
 1,2,3-Trichloropropane  
 Concen: 44.382 ug/l  
 RT: 12.477 min Scan# 1748  
 Delta R.T. -0.153 min  
 Lab File: VY014699.D  
 Acq: 18 Jul 2023 14:09

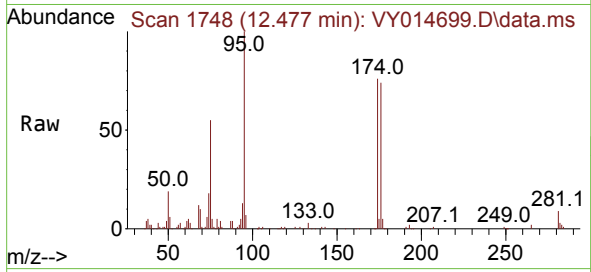
Tgt Ion: 75 Resp: 18686  
 Ion Ratio Lower Upper  
 75 100  
 77 1.4 0.0 0.0#





#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 85.932 ug/l  
 RT: 12.477 min Scan# 11  
 Delta R.T. 0.104 min  
 Lab File: VY014699.D  
 Acq: 18 Jul 2023 14:09

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 OK-01-071723RE



Tgt Ion: 75 Resp: 18686  
 Ion Ratio Lower Upper  
 75 100  
 53 0.0 77.8 116.8#  
 89 0.5 37.4 56.0#

