

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY022223\  
 Data File : VY012687.D  
 Acq On : 22 Feb 2023 12:51  
 Operator : KP/MD  
 Sample : 01608-01  
 Misc : 5.08g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 TR-04-02172023

Quant Time: Feb 22 14:06:22 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y022123S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Feb 22 01:21:05 2023  
 Response via : Initial Calibration

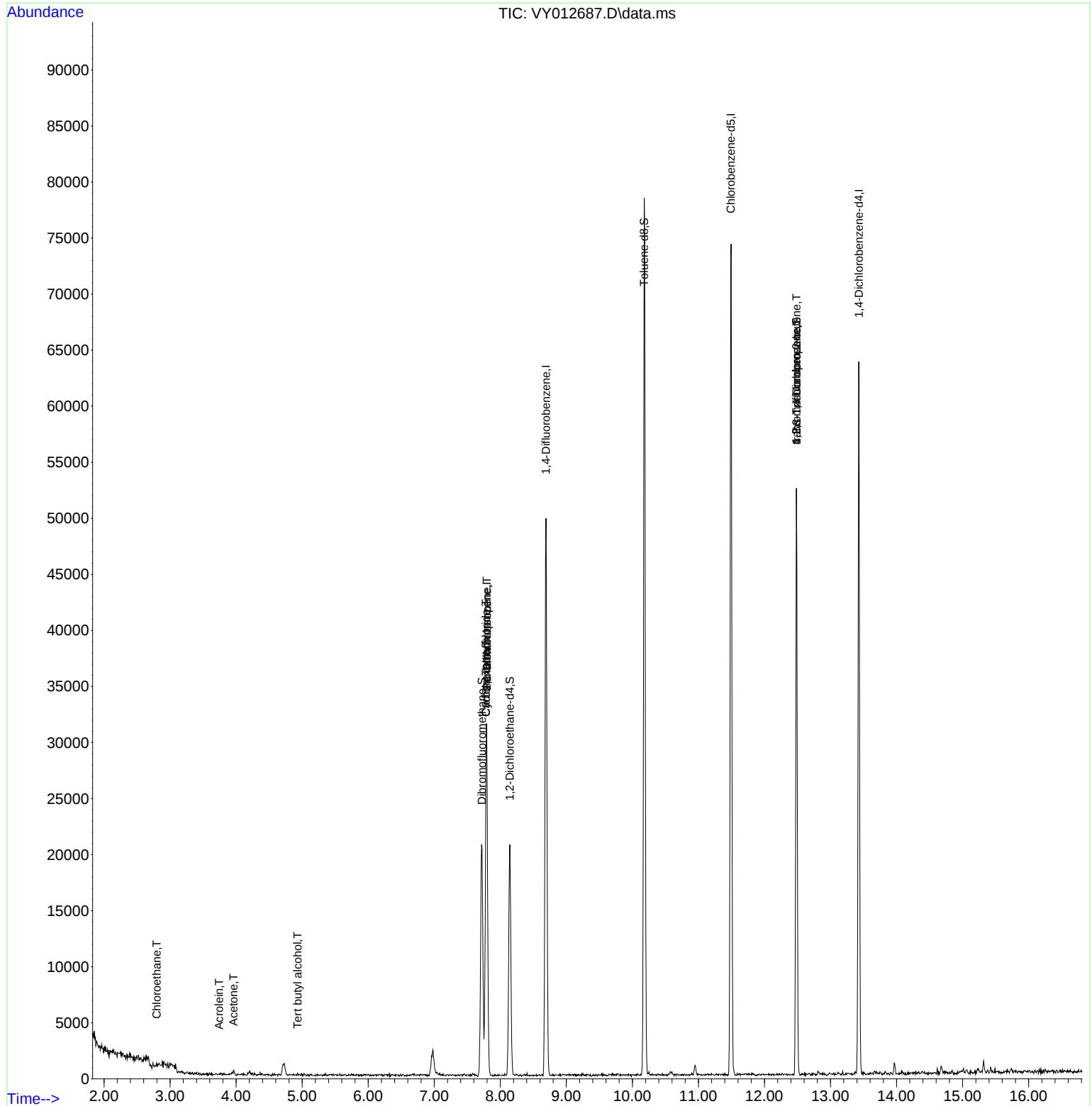
| Compound                      | R.T.           | QIon | Response            | Conc      | Units  | Dev(Min) |
|-------------------------------|----------------|------|---------------------|-----------|--------|----------|
| -----                         |                |      |                     |           |        |          |
| Internal Standards            |                |      |                     |           |        |          |
| 1) Pentafluorobenzene         | 7.795          | 168  | 24910               | 50.000    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.691          | 114  | 39943               | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.490         | 117  | 39357               | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.428         | 152  | 15673               | 50.000    | ug/l   | 0.00     |
|                               |                |      |                     |           |        |          |
| System Monitoring Compounds   |                |      |                     |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.143          | 65   | 16404               | 55.758    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 50 - 163 |      | Recovery = 111.520% |           |        |          |
| 35) Dibromofluoromethane      | 7.722          | 113  | 14734               | 54.613    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 54 - 147 |      | Recovery = 109.220% |           |        |          |
| 50) Toluene-d8                | 10.179         | 98   | 49938               | 49.407    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 49 - 140 |      | Recovery = 98.820%  |           |        |          |
| 62) 4-Bromofluorobenzene      | 12.483         | 95   | 14504               | 44.842    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 25 - 144 |      | Recovery = 89.680%  |           |        |          |
|                               |                |      |                     |           |        |          |
| Target Compounds              |                |      | Qvalue              |           |        |          |
| 3) Chloromethane              | 2.113          | 50   | 127                 | Below Cal | #      | 42       |
| 6) Chloroethane               | 2.796          | 64   | 228                 | 1.266     | ug/l # | 41       |
| 11) Tert butyl alcohol        | 4.930          | 59   | 43                  | 1.336     | ug/l # | 74       |
| 13) Acrolein                  | 3.741          | 56   | 71                  | 1.746     | ug/l # | 15       |
| 16) Acetone                   | 3.960          | 43   | 540                 | 5.625     | ug/l # | 83       |
| 20) Methylene Chloride        | 4.729          | 84   | 662                 | Below Cal | #      | 87       |
| 31) Cyclohexane               | 7.783          | 56   | 643                 | 1.258     | ug/l # | 33       |
| 36) 1,1-Dichloropropene       | 7.795          | 75   | 2060                | 4.817     | ug/l # | 48       |
| 38) Carbon Tetrachloride      | 7.783          | 117  | 2447                | 5.534     | ug/l # | 19       |
| 76) 1,2,3-Trichloropropane    | 12.483         | 75   | 7968                | 40.780    | ug/l # | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.483         | 75   | 7968                | 86.392    | ug/l # | 9        |
| -----                         |                |      |                     |           |        |          |

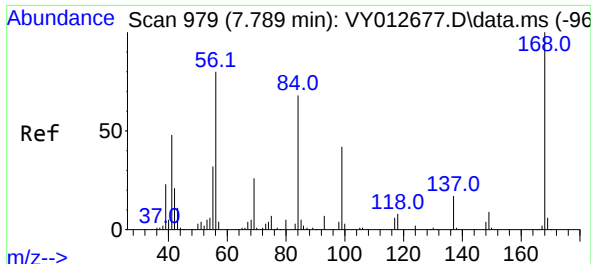
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY022223\  
Data File : VY012687.D  
Acq On : 22 Feb 2023 12:51  
Operator : KP/MD  
Sample : 01608-01  
Misc : 5.08g/5.0mL/MSVOA\_Y/SOIL  
ALS Vial : 7 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :  
TR-04-02172023

Quant Time: Feb 22 14:06:22 2023  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y022123S.M  
Quant Title : SW846 8260  
QLast Update : Wed Feb 22 01:21:05 2023  
Response via : Initial Calibration

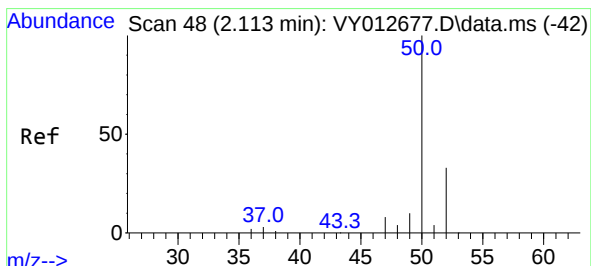
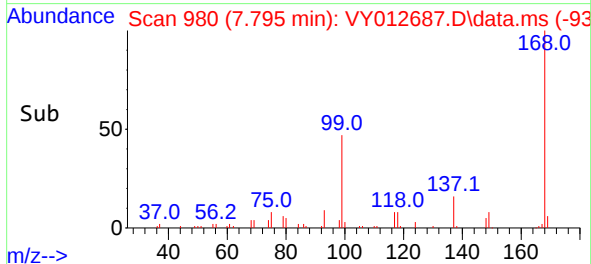
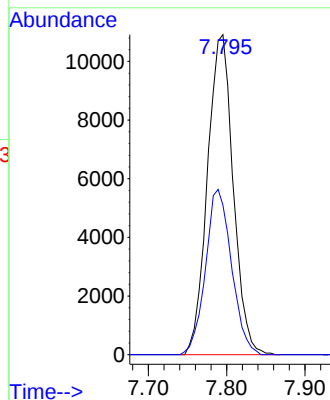
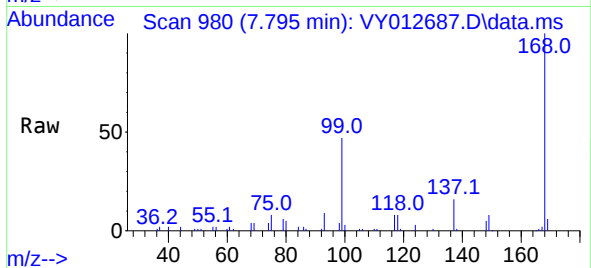




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.795 min Scan# 91  
Delta R.T. 0.006 min  
Lab File: VY012687.D  
Acq: 22 Feb 2023 12:51

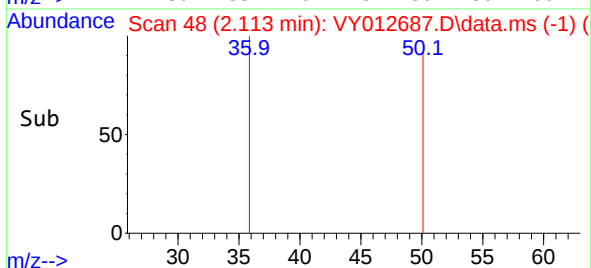
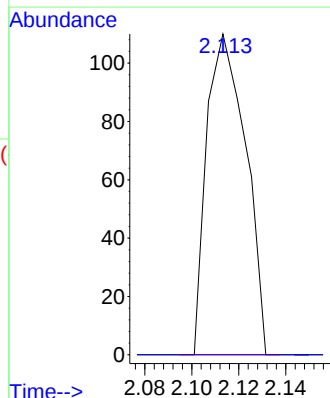
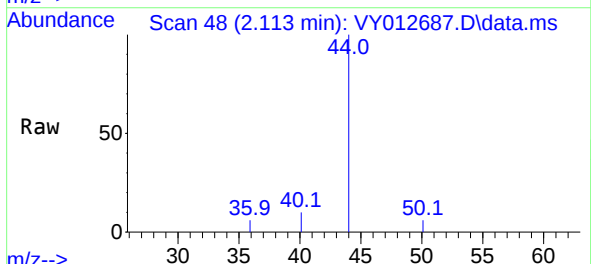
Instrument :  
MSVOA\_Y  
ClientSampleId :  
TR-04-02172023

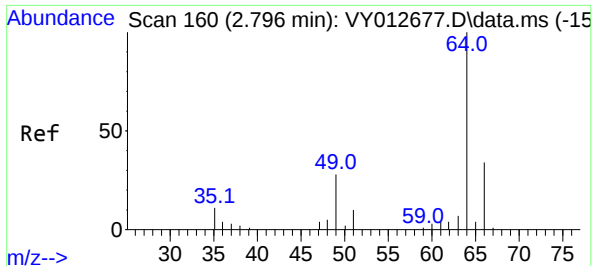
Tgt Ion:168 Resp: 24910  
Ion Ratio Lower Upper  
168 100  
99 46.7 45.4 68.2



#3  
Chloromethane  
Concen: Below Cal  
RT: 2.113 min Scan# 48  
Delta R.T. 0.000 min  
Lab File: VY012687.D  
Acq: 22 Feb 2023 12:51

Tgt Ion: 50 Resp: 127  
Ion Ratio Lower Upper  
50 100  
52 0.0 26.1 39.1#

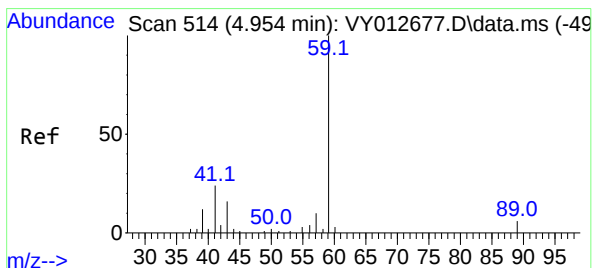
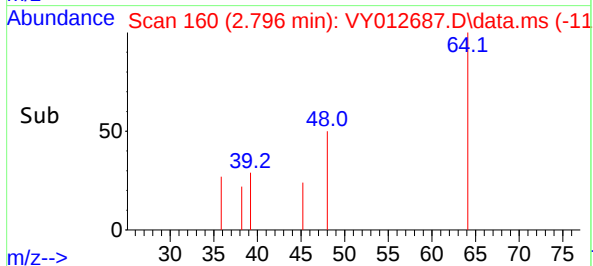
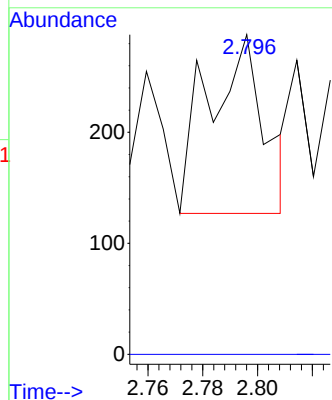
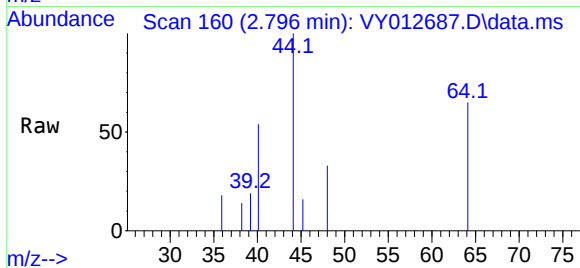




#6  
Chloroethane  
Concen: 1.266 ug/l  
RT: 2.796 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VY012687.D  
Acq: 22 Feb 2023 12:51

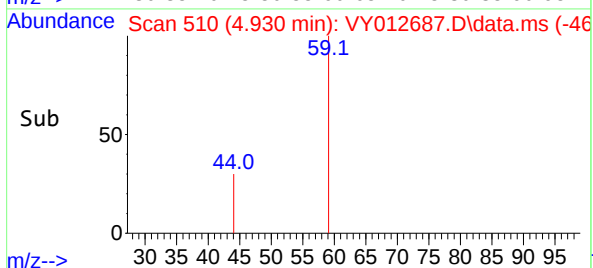
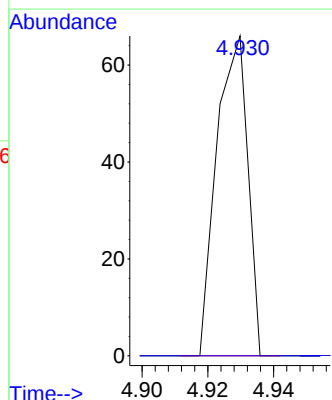
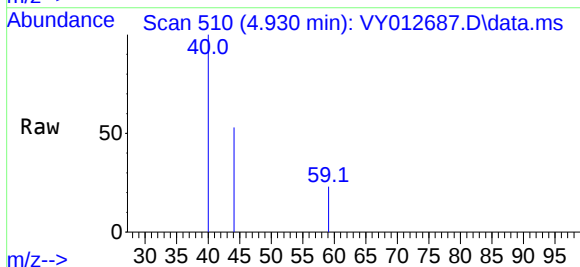
Instrument :  
MSVOA\_Y  
ClientSampleId :  
TR-04-02172023

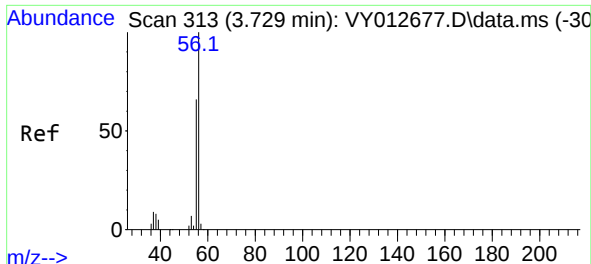
Tgt Ion: 64 Resp: 228  
Ion Ratio Lower Upper  
64 100  
66 0.0 27.1 40.7#



#11  
Tert butyl alcohol  
Concen: 1.336 ug/l  
RT: 4.930 min Scan# 510  
Delta R.T. -0.024 min  
Lab File: VY012687.D  
Acq: 22 Feb 2023 12:51

Tgt Ion: 59 Resp: 43  
Ion Ratio Lower Upper  
59 100  
57 0.0 7.7 11.5#

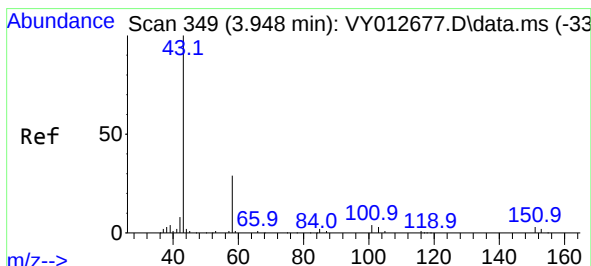
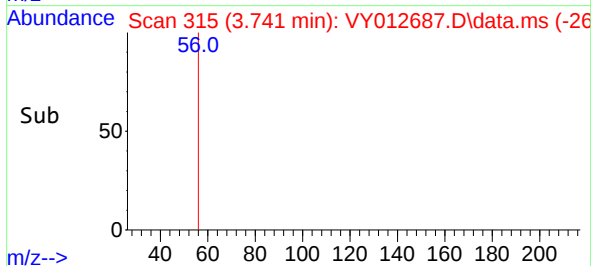
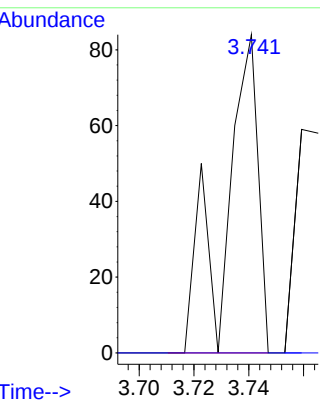
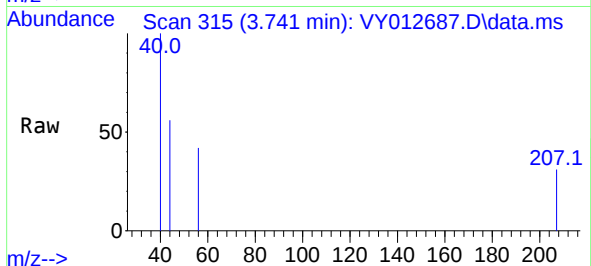




#13  
Acrolein  
Concen: 1.746 ug/l  
RT: 3.741 min Scan# 313  
Delta R.T. 0.012 min  
Lab File: VY012687.D  
Acq: 22 Feb 2023 12:51

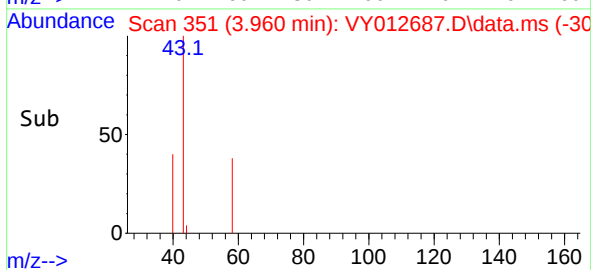
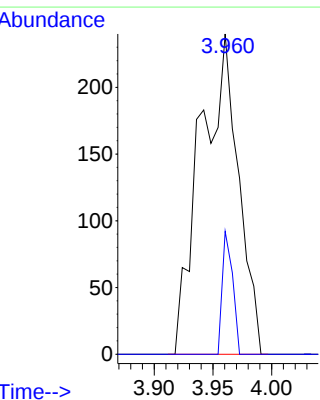
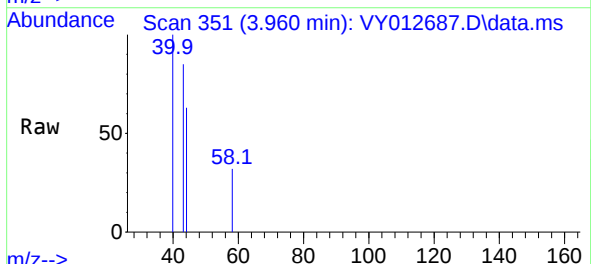
Instrument :  
MSVOA\_Y  
ClientSampleId :  
TR-04-02172023

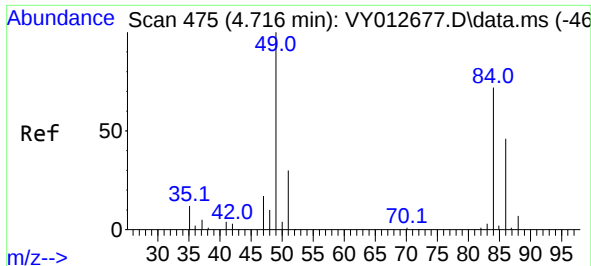
Tgt Ion: 56 Resp: 71  
Ion Ratio Lower Upper  
56 100  
55 0.0 55.7 83.5#



#16  
Acetone  
Concen: 5.625 ug/l  
RT: 3.960 min Scan# 351  
Delta R.T. 0.012 min  
Lab File: VY012687.D  
Acq: 22 Feb 2023 12:51

Tgt Ion: 43 Resp: 540  
Ion Ratio Lower Upper  
43 100  
58 38.3 23.3 34.9#



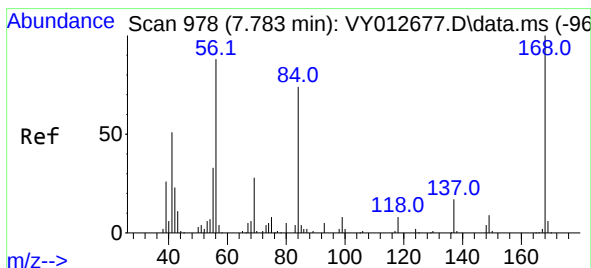
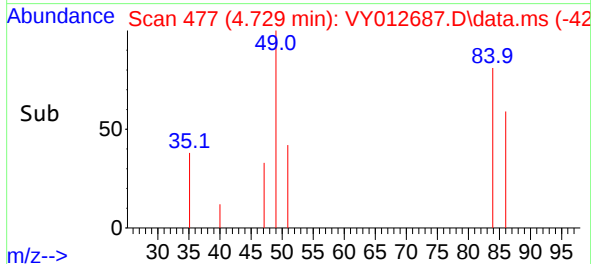
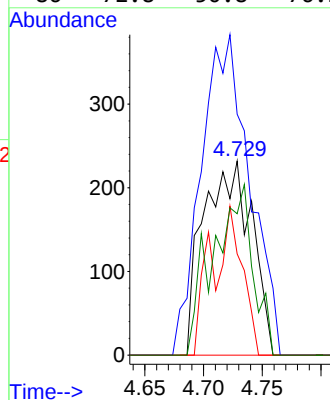
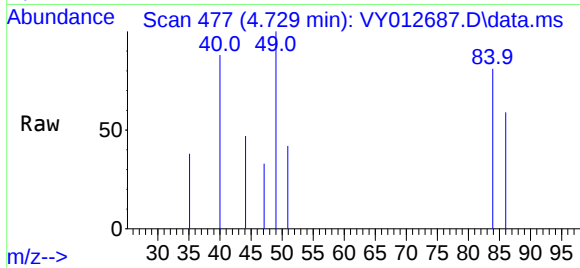


#20  
Methylene Chloride  
Concen: Below Cal  
RT: 4.729 min Scan# 41  
Delta R.T. 0.012 min  
Lab File: VY012687.D  
Acq: 22 Feb 2023 12:51

Instrument :  
MSVOA\_Y  
ClientSampleId :  
TR-04-02172023

Tgt Ion: 84 Resp: 662

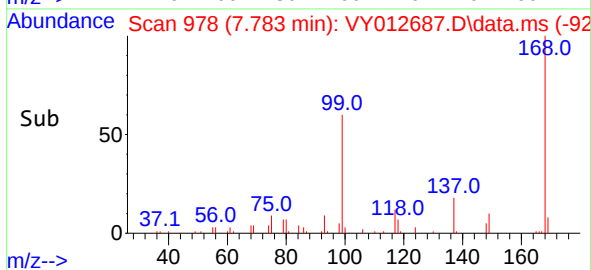
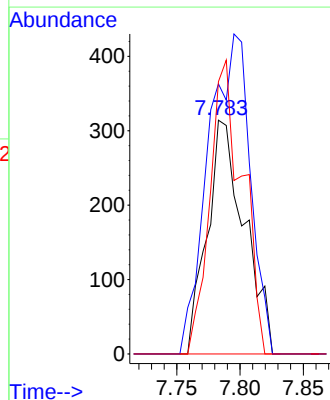
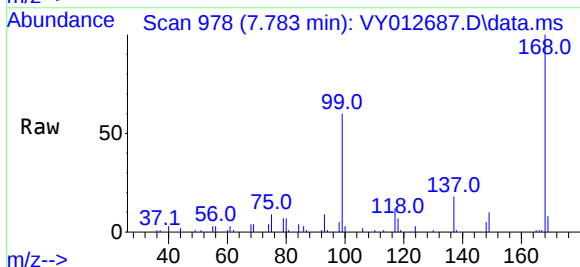
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 84  | 100   |       |       |
| 49  | 124.1 | 111.1 | 166.7 |
| 51  | 52.2  | 33.5  | 50.3# |
| 86  | 72.8  | 50.8  | 76.2  |

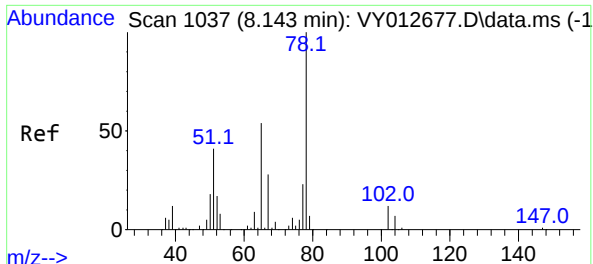


#31  
Cyclohexane  
Concen: 1.258 ug/l  
RT: 7.783 min Scan# 978  
Delta R.T. 0.000 min  
Lab File: VY012687.D  
Acq: 22 Feb 2023 12:51

Tgt Ion: 56 Resp: 643

| Ion | Ratio | Lower | Upper  |
|-----|-------|-------|--------|
| 56  | 100   |       |        |
| 69  | 115.6 | 25.4  | 38.2#  |
| 84  | 116.6 | 67.3  | 100.9# |





#33

1,2-Dichloroethane-d4

Concen: 55.758 ug/l

RT: 8.143 min Scan# 1037

Delta R.T. -0.000 min

Lab File: VY012687.D

Acq: 22 Feb 2023 12:51

Instrument :

MSVOA\_Y

ClientSampleId :

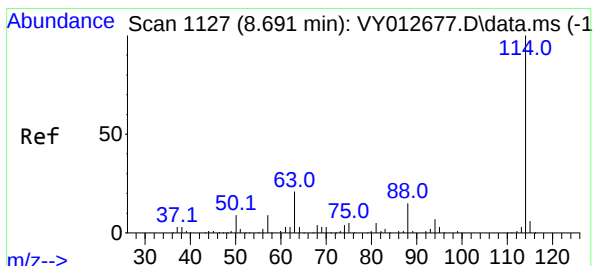
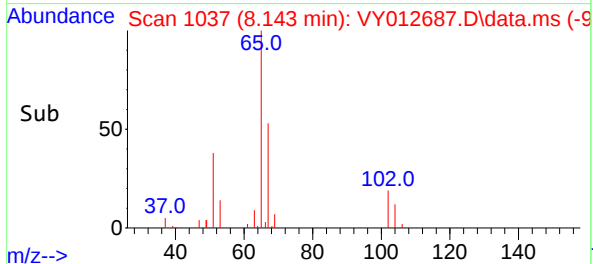
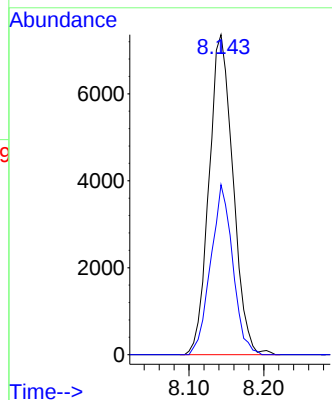
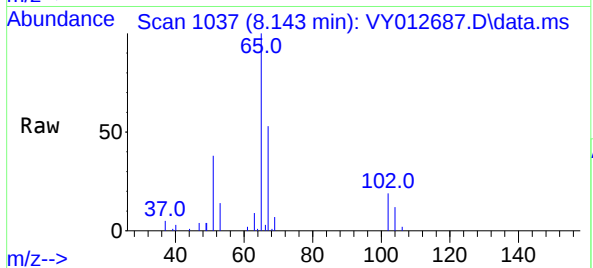
TR-04-02172023

Tgt Ion: 65 Resp: 16404

Ion Ratio Lower Upper

65 100

67 48.8 0.0 104.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.691 min Scan# 1127

Delta R.T. -0.000 min

Lab File: VY012687.D

Acq: 22 Feb 2023 12:51

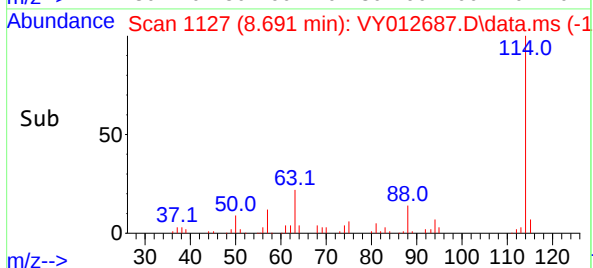
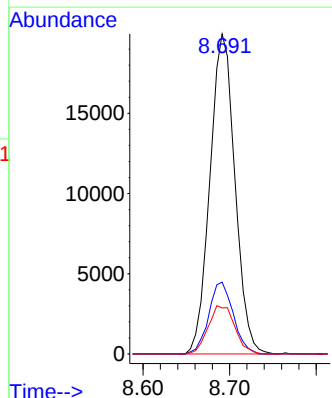
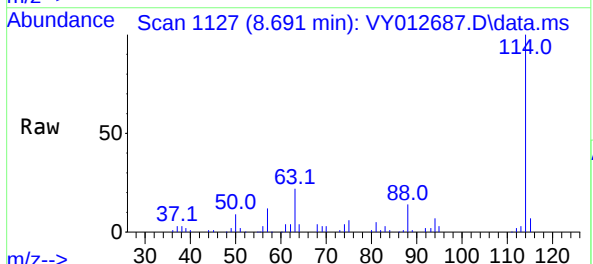
Tgt Ion: 114 Resp: 39943

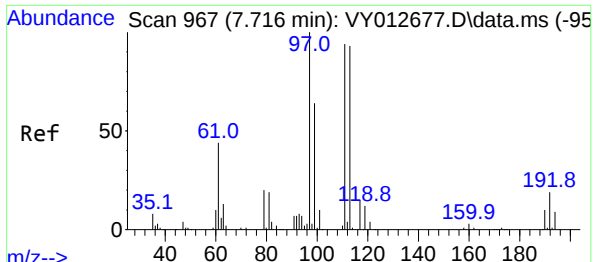
Ion Ratio Lower Upper

114 100

63 22.5 0.0 42.8

88 14.4 0.0 29.6

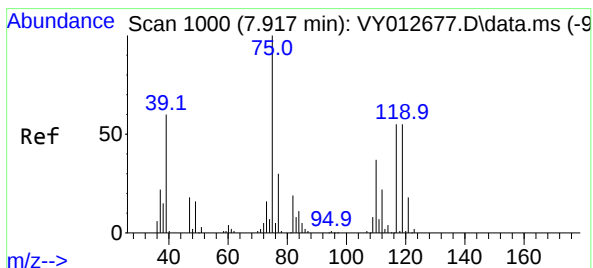
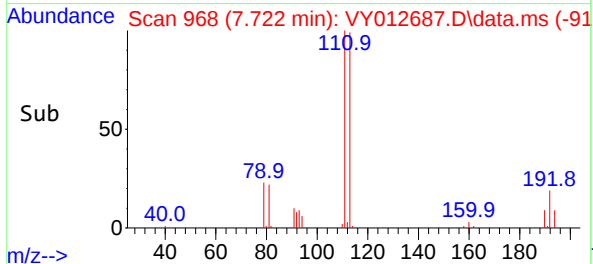
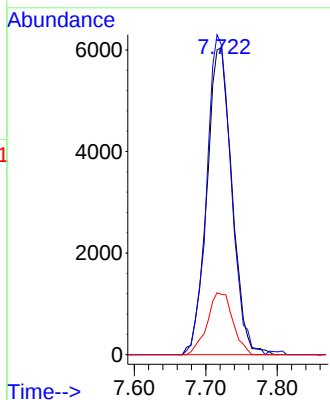
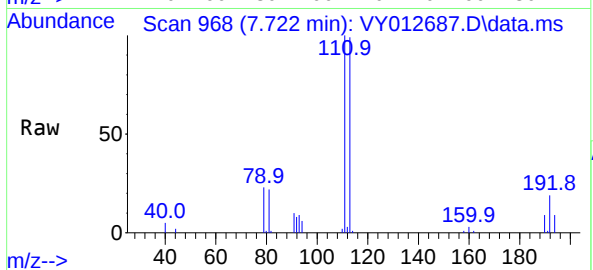




#35  
Dibromofluoromethane  
Concen: 54.613 ug/l  
RT: 7.722 min Scan# 90  
Delta R.T. 0.006 min  
Lab File: VY012687.D  
Acq: 22 Feb 2023 12:51

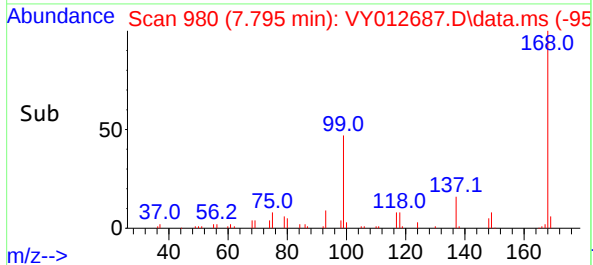
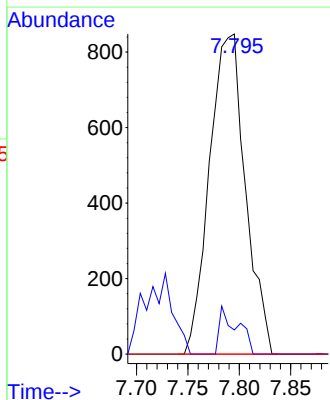
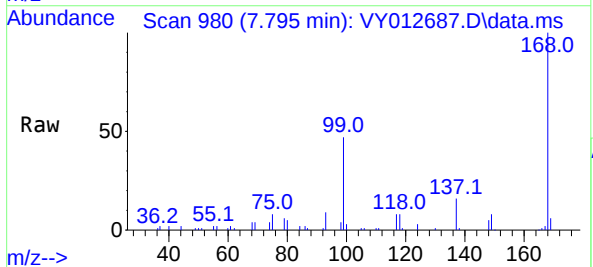
Instrument :  
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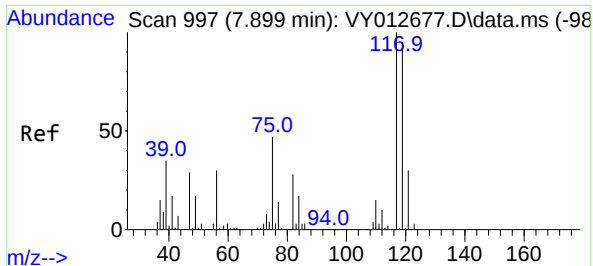
Tgt Ion:113 Resp: 14734  
Ion Ratio Lower Upper  
113 100  
111 101.2 82.0 123.0  
192 20.5 16.2 24.2



#36  
1,1-Dichloropropene  
Concen: 4.817 ug/l  
RT: 7.795 min Scan# 980  
Delta R.T. -0.122 min  
Lab File: VY012687.D  
Acq: 22 Feb 2023 12:51

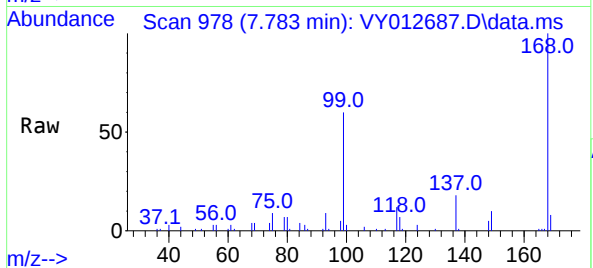
Tgt Ion: 75 Resp: 2060  
Ion Ratio Lower Upper  
75 100  
110 7.4 17.6 52.8#  
77 0.0 24.6 37.0#



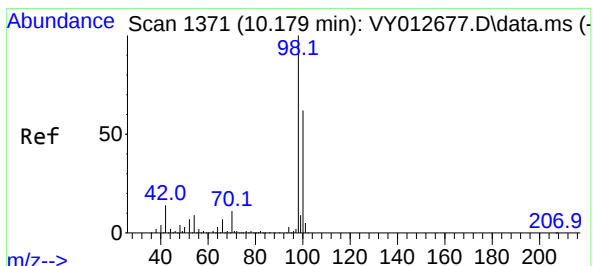
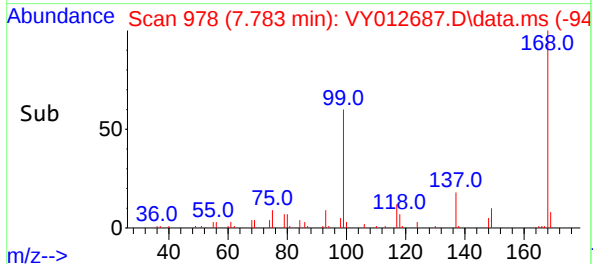
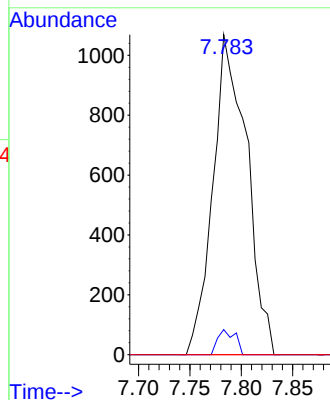


#38  
Carbon Tetrachloride  
Concen: 5.534 ug/l  
RT: 7.783 min Scan# 91  
Delta R.T. -0.116 min  
Lab File: VY012687.D  
Acq: 22 Feb 2023 12:51

Instrument :  
MSVOA\_Y  
ClientSampleId :  
TR-04-02172023

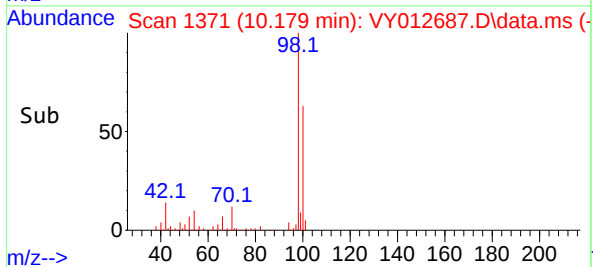
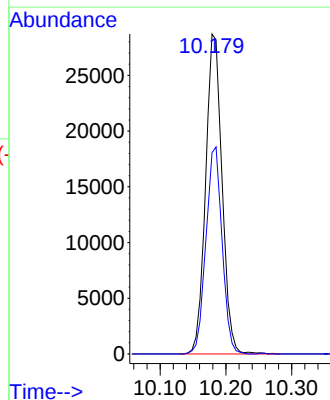
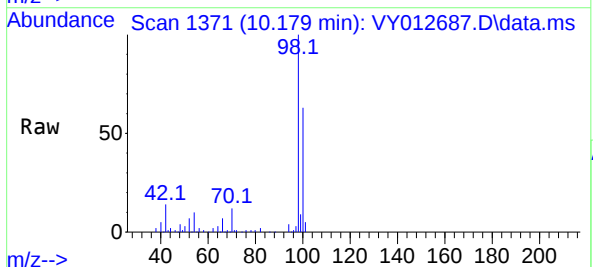


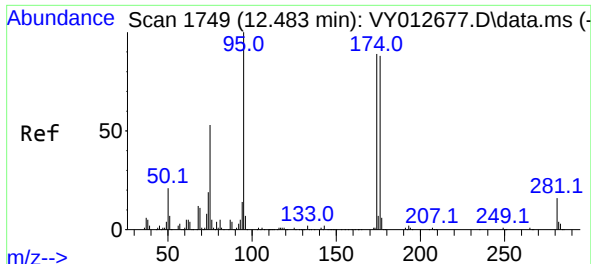
Tgt Ion:117 Resp: 2447  
Ion Ratio Lower Upper  
117 100  
119 7.9 75.5 113.3#  
121 0.0 23.8 35.8#



#50  
Toluene-d8  
Concen: 49.407 ug/l  
RT: 10.179 min Scan# 1371  
Delta R.T. -0.000 min  
Lab File: VY012687.D  
Acq: 22 Feb 2023 12:51

Tgt Ion: 98 Resp: 49938  
Ion Ratio Lower Upper  
98 100  
100 63.6 51.2 76.8

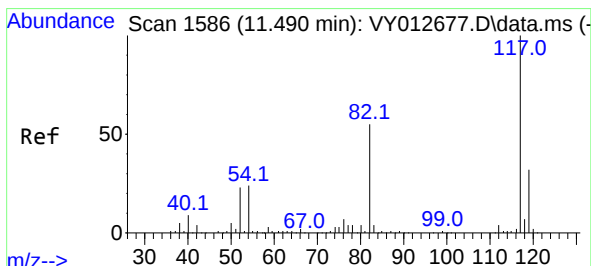
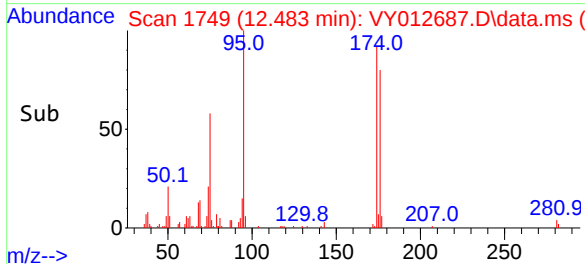
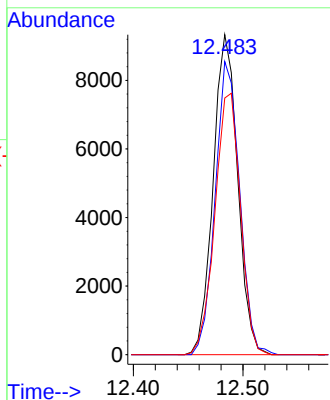
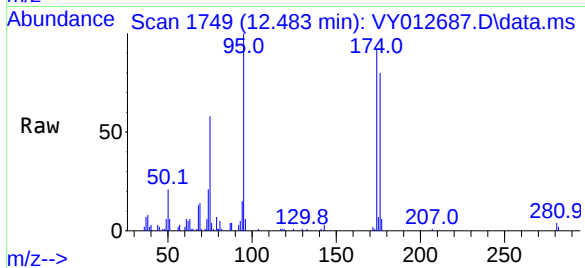




#62  
4-Bromofluorobenzene  
Concen: 44.842 ug/l  
RT: 12.483 min Scan# 1749  
Delta R.T. -0.000 min  
Lab File: VY012687.D  
Acq: 22 Feb 2023 12:51

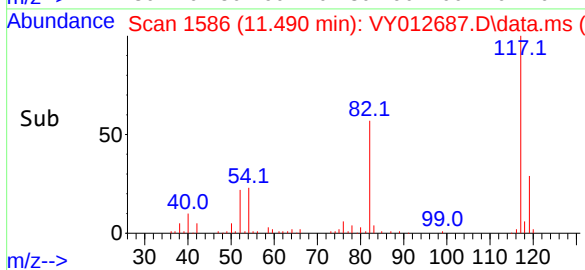
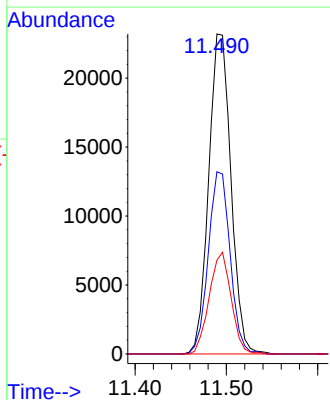
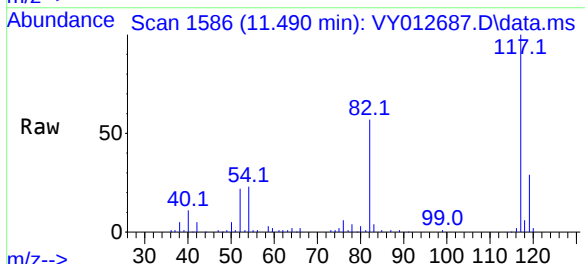
Instrument :  
MSVOA\_Y  
ClientSampleId :  
TR-04-02172023

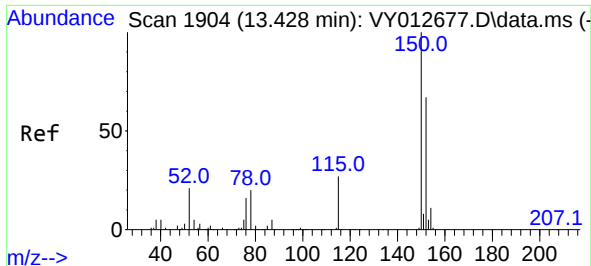
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 95    | Resp: | 14504 |
| Ion      | Ratio | Lower | Upper |
| 95       | 100   |       |       |
| 174      | 91.2  | 0.0   | 172.8 |
| 176      | 85.3  | 0.0   | 169.4 |



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.490 min Scan# 1586  
Delta R.T. 0.000 min  
Lab File: VY012687.D  
Acq: 22 Feb 2023 12:51

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 117   | Resp: | 39357 |
| Ion      | Ratio | Lower | Upper |
| 117      | 100   |       |       |
| 82       | 56.9  | 44.1  | 66.1  |
| 119      | 29.3  | 25.5  | 38.3  |

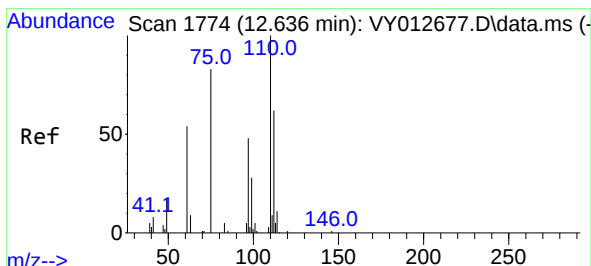
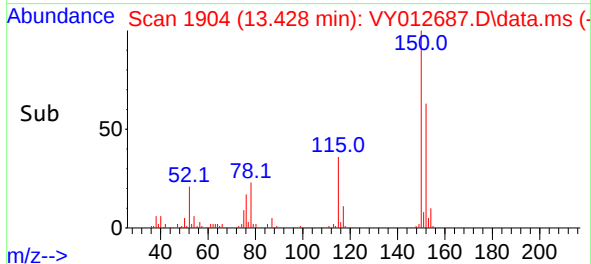
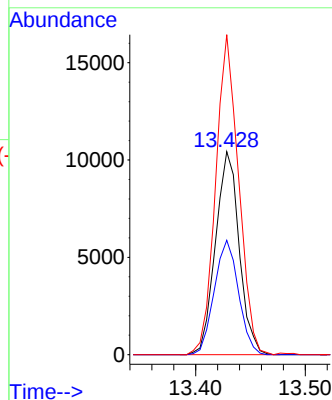
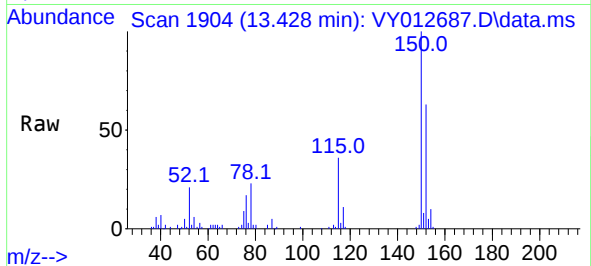




#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.428 min Scan# 1904  
Delta R.T. -0.000 min  
Lab File: VY012687.D  
Acq: 22 Feb 2023 12:51

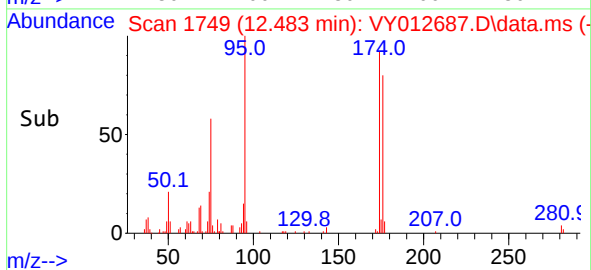
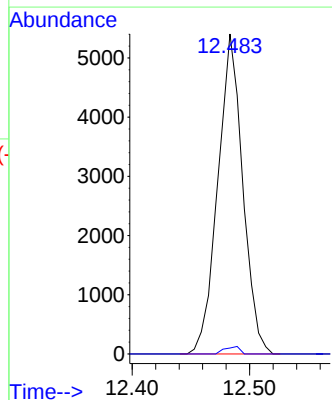
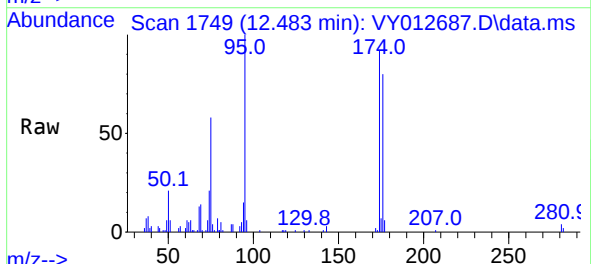
Instrument :  
MSVOA\_Y  
ClientSampleId :  
TR-04-02172023

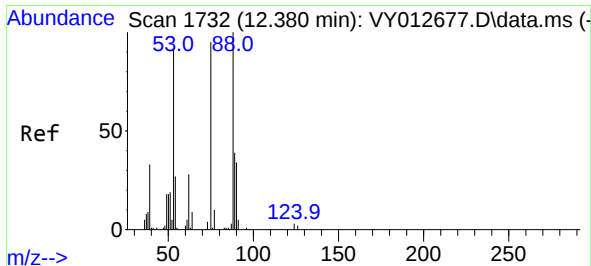
Tgt Ion:152 Resp: 15673  
Ion Ratio Lower Upper  
152 100  
115 57.6 28.7 86.3  
150 152.8 0.0 347.6



#76  
1,2,3-Trichloropropane  
Concen: 40.780 ug/l  
RT: 12.483 min Scan# 1749  
Delta R.T. -0.152 min  
Lab File: VY012687.D  
Acq: 22 Feb 2023 12:51

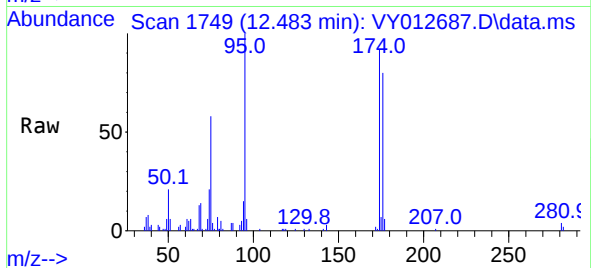
Tgt Ion: 75 Resp: 7968  
Ion Ratio Lower Upper  
75 100  
77 1.4 0.0 0.0#





#81  
trans-1,4-Dichloro-2-butene  
Concen: 86.392 ug/l  
RT: 12.483 min Scan# 11  
Delta R.T. 0.104 min  
Lab File: VY012687.D  
Acq: 22 Feb 2023 12:51

Instrument :  
MSVOA\_Y  
ClientSampleId :  
TR-04-02172023



Tgt Ion: 75 Resp: 7968  
Ion Ratio Lower Upper  
75 100  
53 0.0 80.4 120.6#  
89 0.0 36.5 54.7#

