

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY092722\  
 Data File : VY010695.D  
 Acq On : 27 Sep 2022 14:07  
 Operator : KP/MD  
 Sample : N4751-03  
 Misc : 9.29g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :

Quant Time: Sep 28 01:25:28 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y091922S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Sep 20 01:02:44 2022  
 Response via : Initial Calibration

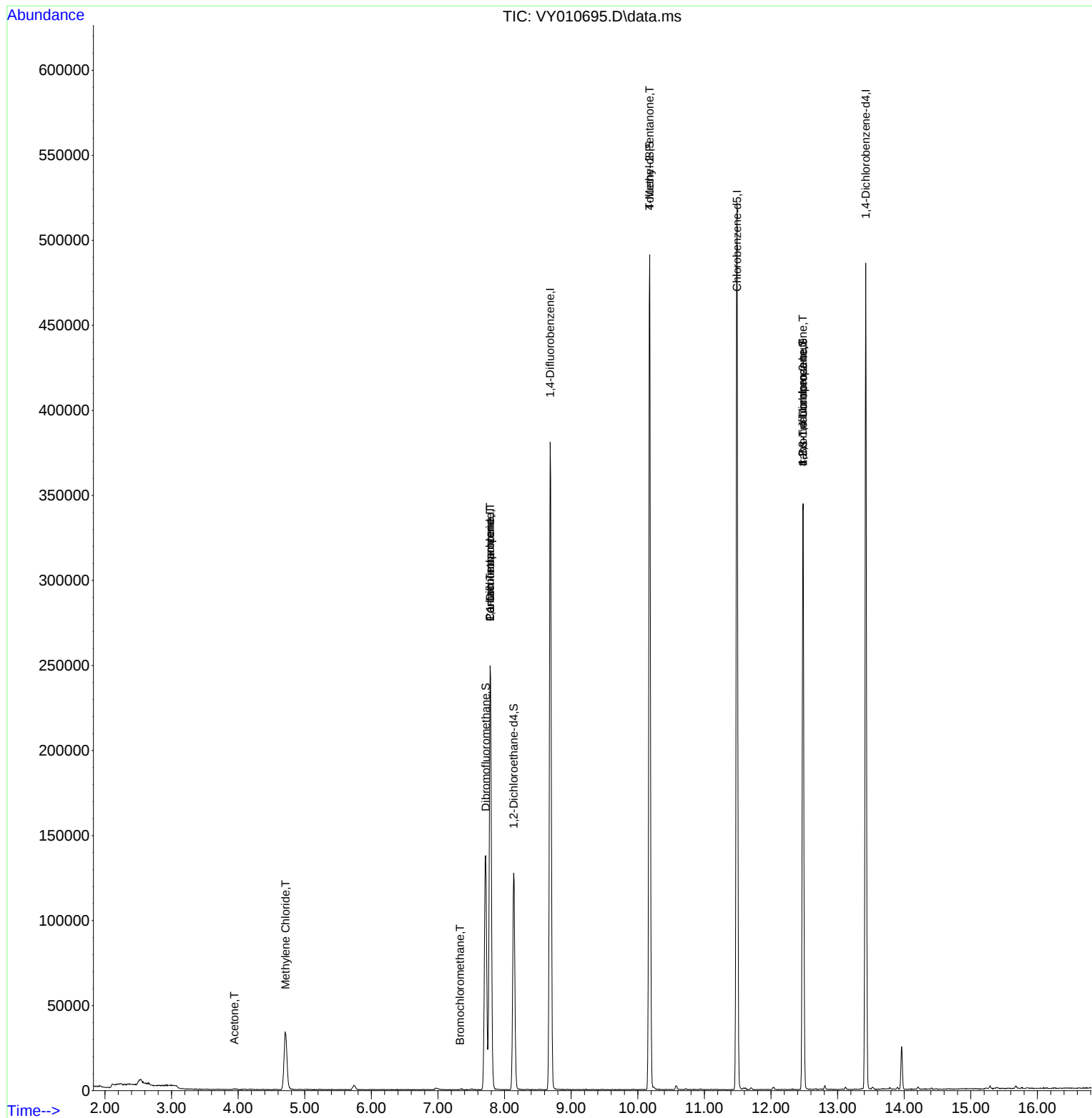
| Compound                      | R.T.   | QIon  | Response | Conc         | Units      | Dev(Min) |
|-------------------------------|--------|-------|----------|--------------|------------|----------|
| -----                         |        |       |          |              |            |          |
| Internal Standards            |        |       |          |              |            |          |
| 1) Pentafluorobenzene         | 7.783  | 168   | 192784   | 50.000       | ug/l       | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.685  | 114   | 321433   | 50.000       | ug/l       | 0.00     |
| 63) Chlorobenzene-d5          | 11.490 | 117   | 282788   | 50.000       | ug/l       | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.422 | 152   | 118228   | 50.000       | ug/l       | 0.00     |
| System Monitoring Compounds   |        |       |          |              |            |          |
| 33) 1,2-Dichloroethane-d4     | 8.137  | 65    | 99287    | 53.845       | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 50 - 163 | Recovery     | = 107.700% |          |
| 35) Dibromofluoromethane      | 7.716  | 113   | 100493   | 48.988       | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 54 - 147 | Recovery     | = 97.980%  |          |
| 50) Toluene-d8                | 10.179 | 98    | 320147   | 42.713       | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 49 - 140 | Recovery     | = 85.420%  |          |
| 62) 4-Bromofluorobenzene      | 12.477 | 95    | 102136   | 35.517       | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 25 - 144 | Recovery     | = 71.040%  |          |
| Target Compounds              |        |       |          |              |            |          |
|                               |        |       |          |              | Qvalue     |          |
| 3) Chloromethane              | 2.113  | 50    | 558      | Below Cal    |            | 99       |
| 4) Vinyl Chloride             | 2.436  | 62    | 84       | Below Cal    | #          | 43       |
| 5) Bromomethane               | 2.662  | 94    | 348      | Below Cal    |            | 86       |
| 11) Tert butyl alcohol        | 4.954  | 59    | 142      | Below Cal    | #          | 77       |
| 16) Acetone                   | 3.942  | 43    | 719      | 1.912 ug/l   | #          | 73       |
| 17) Carbon Disulfide          | 4.186  | 76    | 84       | Below Cal    | #          | 75       |
| 18) Methyl Acetate            | 4.692  | 43    | 35       | Below Cal    | #          | 56       |
| 20) Methylene Chloride        | 4.710  | 84    | 26007    | 1.488 ug/l   |            | 84       |
| 28) Bromochloromethane        | 7.332  | 49    | 40       | 5.123 ug/l   | #          | 16       |
| 31) Cyclohexane               | 7.789  | 56    | 4316     | Below Cal    | #          | 1        |
| 36) 1,1-Dichloropropene       | 7.783  | 75    | 14859    | 6.501 ug/l   | #          | 52       |
| 38) Carbon Tetrachloride      | 7.783  | 117   | 19345    | 7.361 ug/l   | #          | 15       |
| 51) 4-Methyl-2-Pentanone      | 10.179 | 43    | 1385     | 1.014 ug/l   | #          | 1        |
| 76) 1,2,3-Trichloropropane    | 12.477 | 75    | 52780    | 46.774 ug/l  | #          | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.477 | 75    | 52780    | 103.999 ug/l | #          | 7        |
| -----                         |        |       |          |              |            |          |

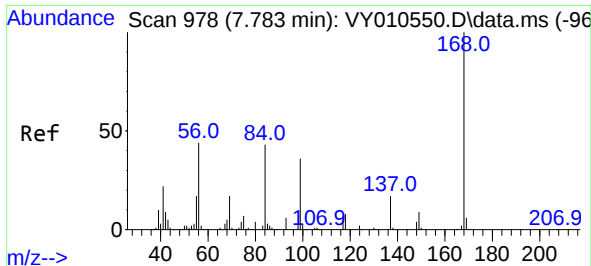
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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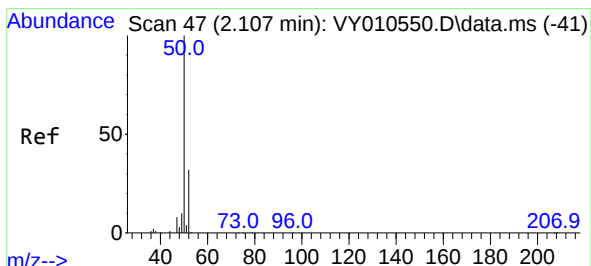
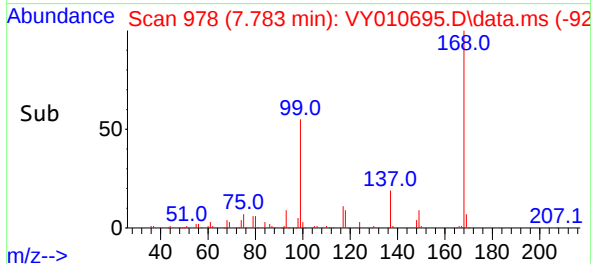
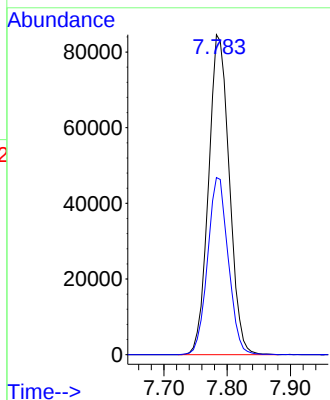
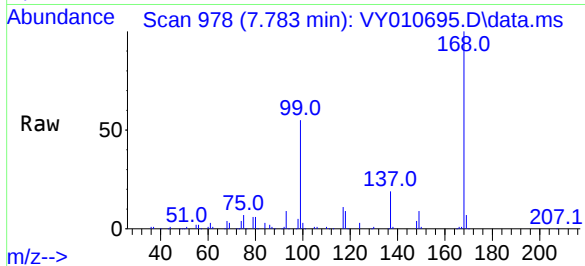




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.783 min Scan# 91  
Delta R.T. -0.000 min  
Lab File: VY010695.D  
Acq: 27 Sep 2022 14:07

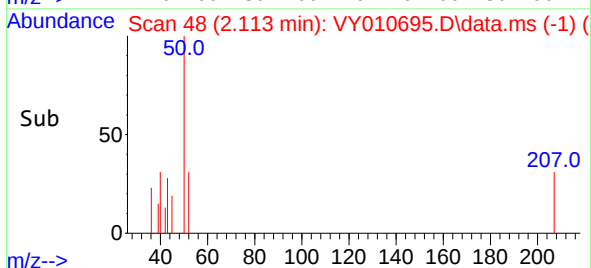
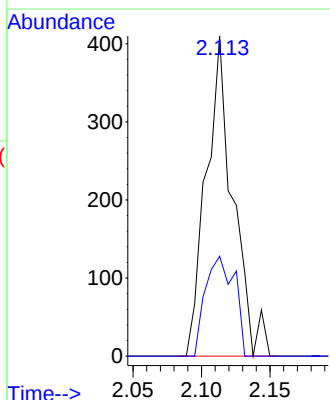
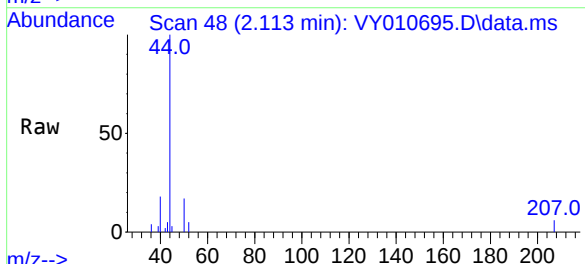
Instrument :  
MSVOA\_Y  
ClientSampleId :

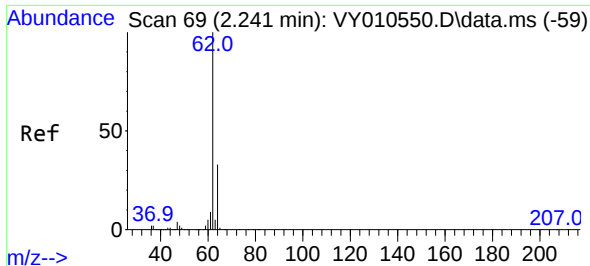
Tgt Ion:168 Resp: 192784  
Ion Ratio Lower Upper  
168 100  
99 55.4 46.9 70.3



#3  
Chloromethane  
Concen: Below Cal  
RT: 2.113 min Scan# 48  
Delta R.T. 0.006 min  
Lab File: VY010695.D  
Acq: 27 Sep 2022 14:07

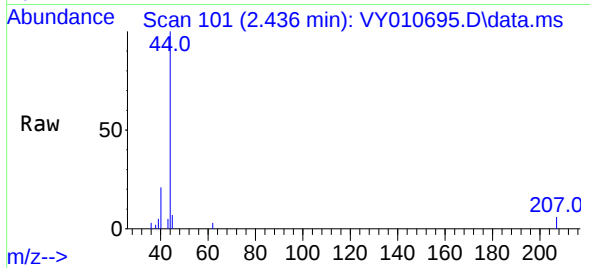
Tgt Ion: 50 Resp: 558  
Ion Ratio Lower Upper  
50 100  
52 31.2 24.6 37.0



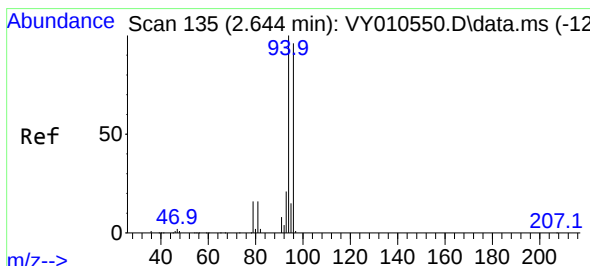
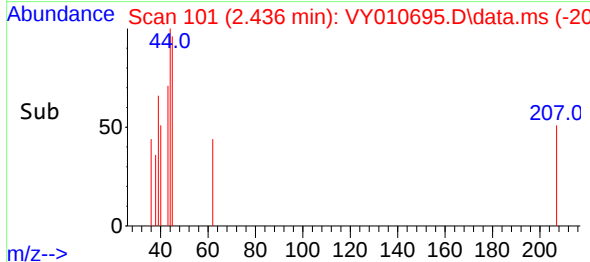
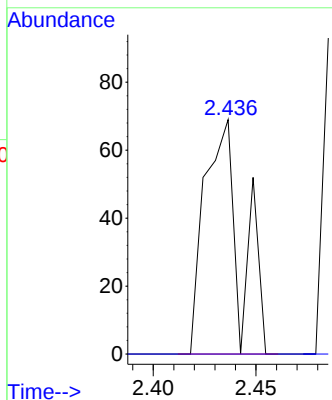


#4  
 Vinyl Chloride  
 Concen: Below Cal  
 RT: 2.436 min Scan# 101  
 Delta R.T. 0.195 min  
 Lab File: VY010695.D  
 Acq: 27 Sep 2022 14:07

Instrument :  
 MSVOA\_Y  
 ClientSampleId :

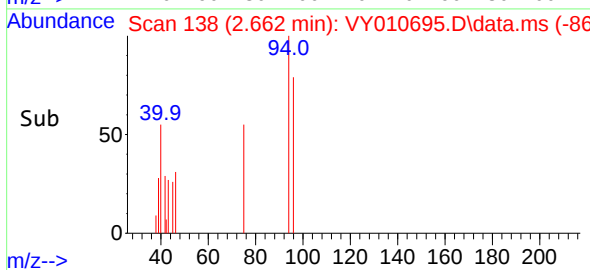
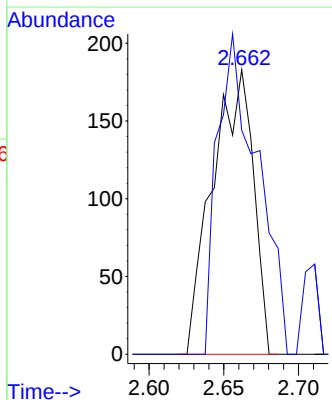
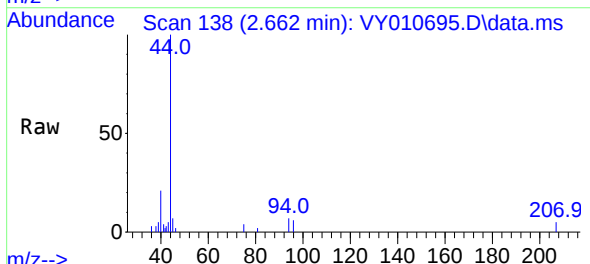


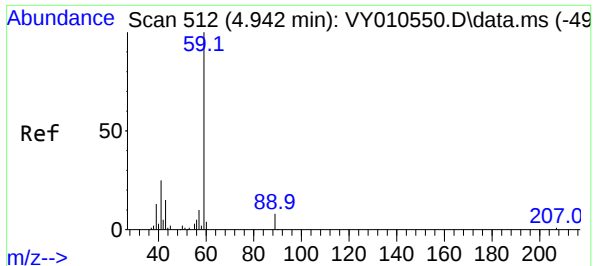
Tgt Ion: 62 Resp: 84  
 Ion Ratio Lower Upper  
 62 100  
 64 0.0 25.0 37.6#



#5  
 Bromomethane  
 Concen: Below Cal  
 RT: 2.662 min Scan# 138  
 Delta R.T. 0.018 min  
 Lab File: VY010695.D  
 Acq: 27 Sep 2022 14:07

Tgt Ion: 94 Resp: 348  
 Ion Ratio Lower Upper  
 94 100  
 96 78.7 73.5 110.3





#11

Tert butyl alcohol

Concen: Below Cal

RT: 4.954 min Scan# 51

Delta R.T. 0.012 min

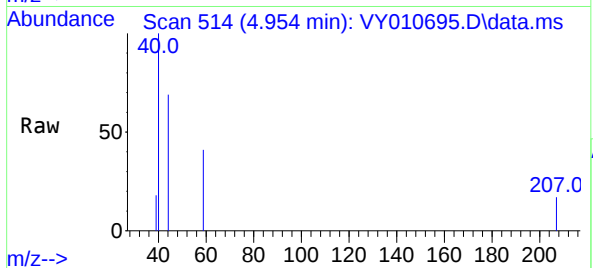
Lab File: VY010695.D

Acq: 27 Sep 2022 14:07

Instrument :

MSVOA\_Y

ClientSampleId :

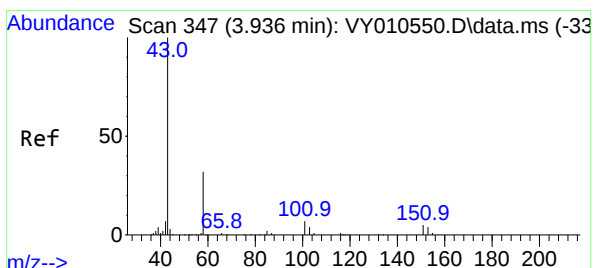
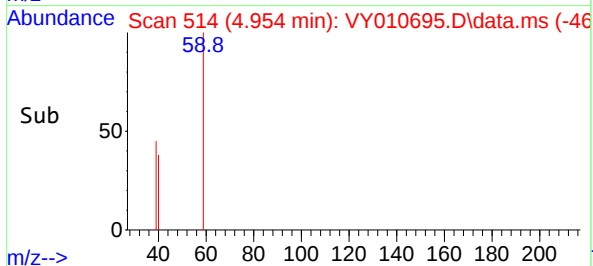
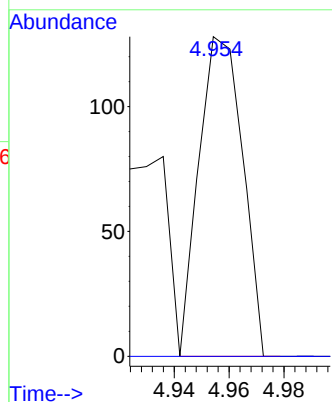


Tgt Ion: 59 Resp: 142

Ion Ratio Lower Upper

59 100

57 0.0 6.4 9.6#



#16

Acetone

Concen: 1.912 ug/l

RT: 3.942 min Scan# 348

Delta R.T. 0.006 min

Lab File: VY010695.D

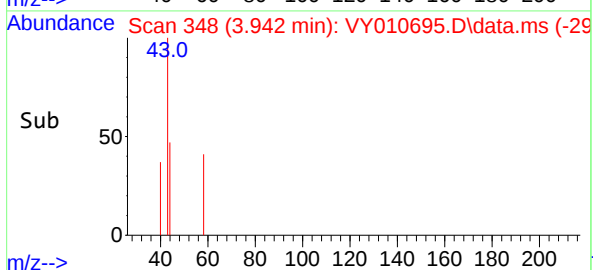
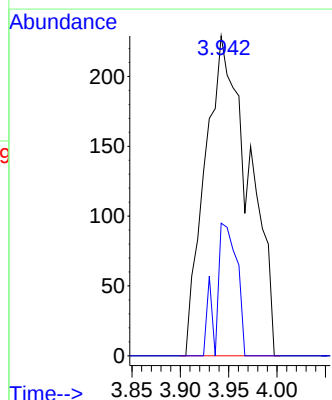
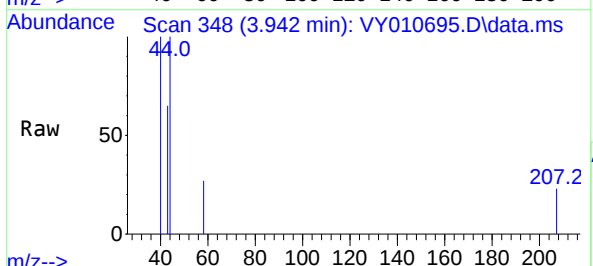
Acq: 27 Sep 2022 14:07

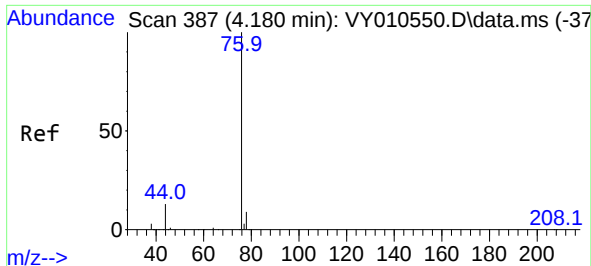
Tgt Ion: 43 Resp: 719

Ion Ratio Lower Upper

43 100

58 41.5 22.0 33.0#

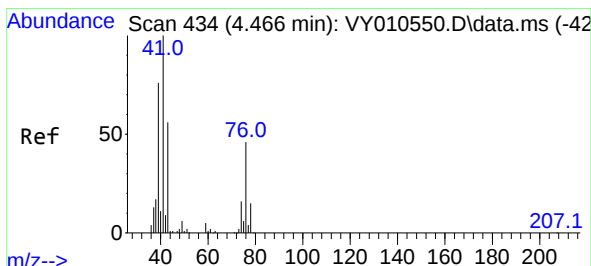
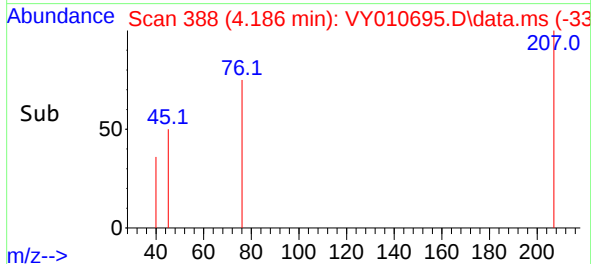
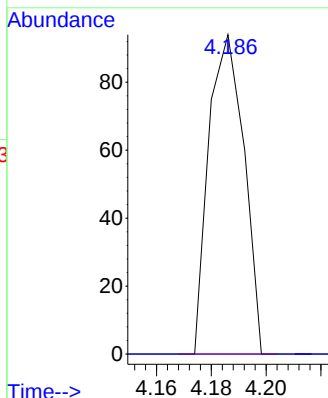
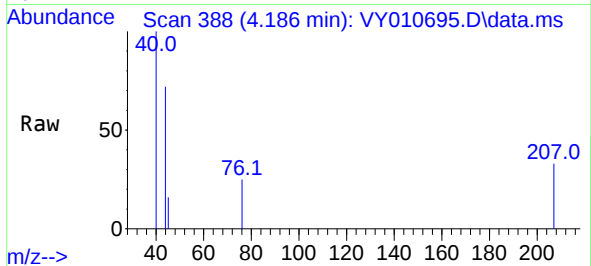




#17  
Carbon Disulfide  
Concen: Below Cal  
RT: 4.186 min Scan# 31  
Delta R.T. 0.006 min  
Lab File: VY010695.D  
Acq: 27 Sep 2022 14:07

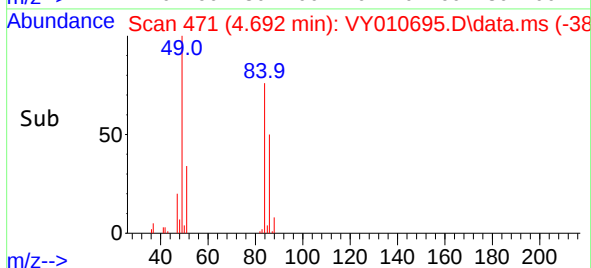
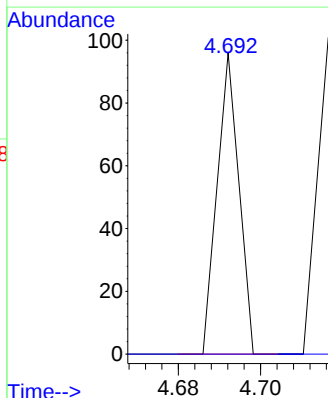
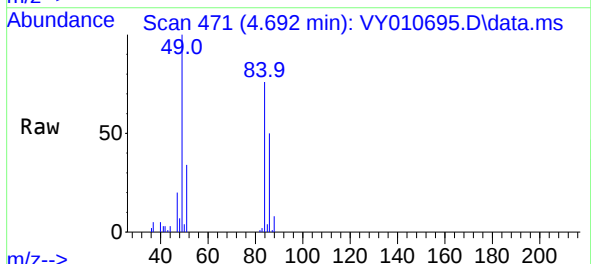
Instrument :  
MSVOA\_Y  
ClientSampleId :

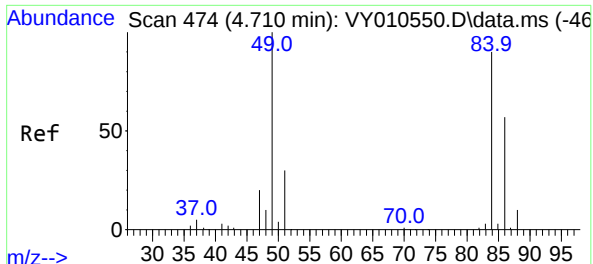
Tgt Ion: 76 Resp: 84  
Ion Ratio Lower Upper  
76 100  
78 0.0 7.4 11.0#



#18  
Methyl Acetate  
Concen: Below Cal  
RT: 4.692 min Scan# 471  
Delta R.T. 0.226 min  
Lab File: VY010695.D  
Acq: 27 Sep 2022 14:07

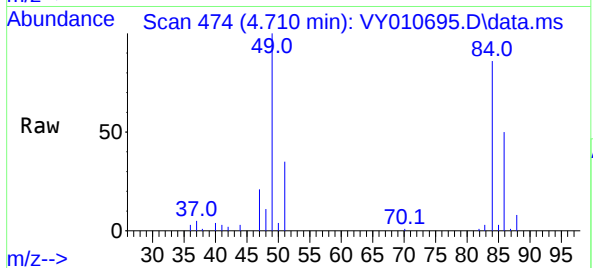
Tgt Ion: 43 Resp: 35  
Ion Ratio Lower Upper  
43 100  
74 0.0 16.6 24.8#





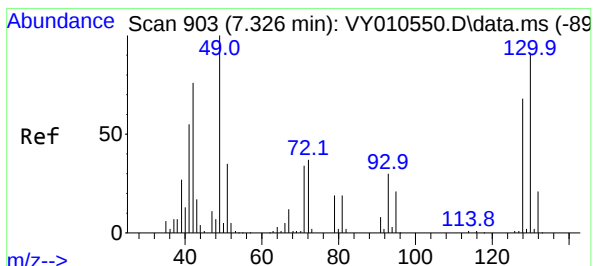
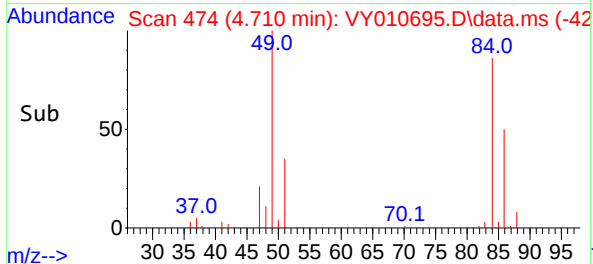
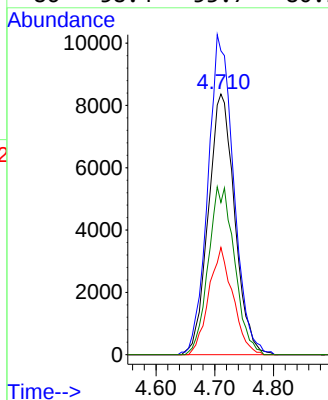
#20  
Methylene Chloride  
Concen: 1.488 ug/l  
RT: 4.710 min Scan# 41  
Delta R.T. 0.000 min  
Lab File: VY010695.D  
Acq: 27 Sep 2022 14:07

Instrument :  
MSVOA\_Y  
ClientSampleId :



Tgt Ion: 84 Resp: 26007

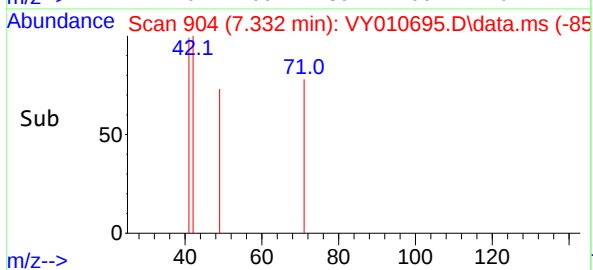
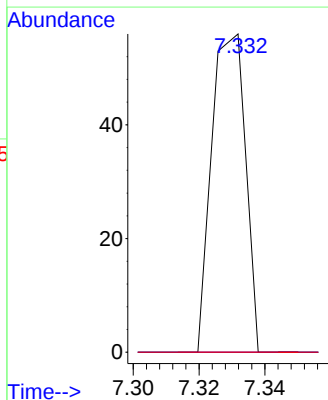
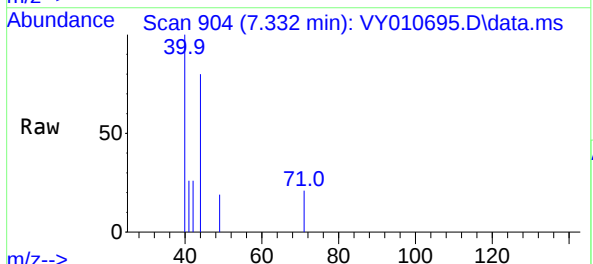
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 84  | 100   |       |       |
| 49  | 116.6 | 114.4 | 171.6 |
| 51  | 41.1  | 35.3  | 52.9  |
| 86  | 58.4  | 53.7  | 80.5  |

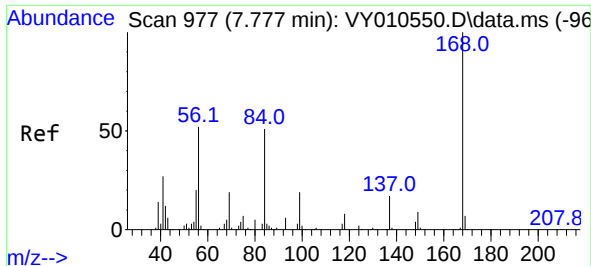


#28  
Bromochloromethane  
Concen: 5.123 ug/l  
RT: 7.332 min Scan# 904  
Delta R.T. 0.006 min  
Lab File: VY010695.D  
Acq: 27 Sep 2022 14:07

Tgt Ion: 49 Resp: 40

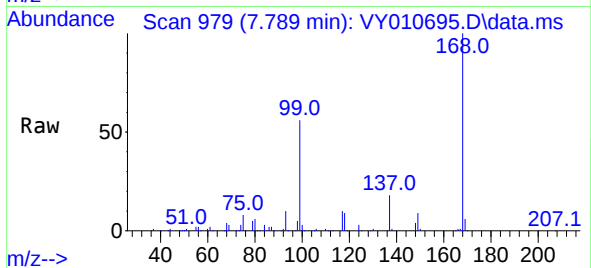
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 49  | 100   |       |       |
| 129 | 0.0   | 0.0   | 2.2   |
| 130 | 0.0   | 55.4  | 83.0# |



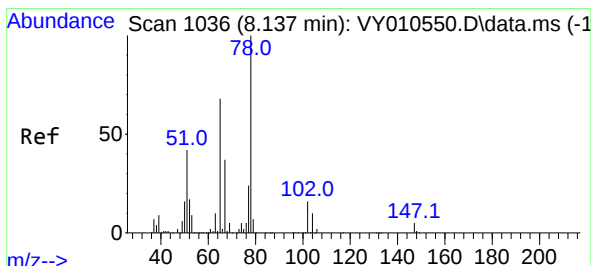
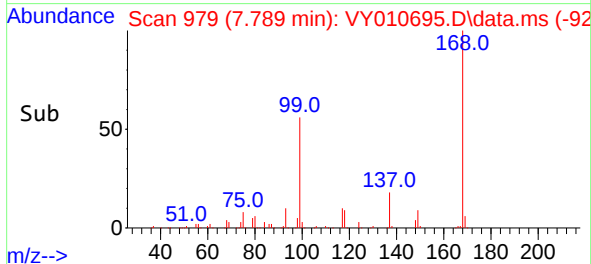
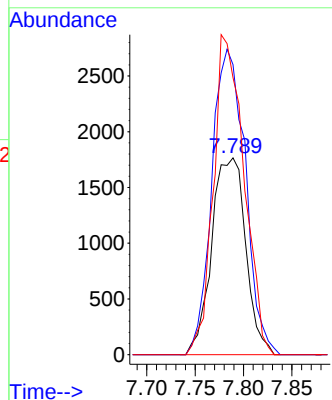


#31  
Cyclohexane  
Concen: Below Cal  
RT: 7.789 min Scan# 91  
Delta R.T. 0.012 min  
Lab File: VY010695.D  
Acq: 27 Sep 2022 14:07

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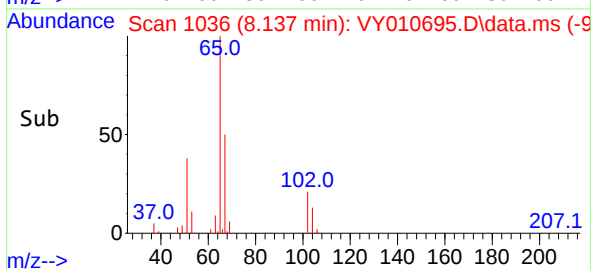
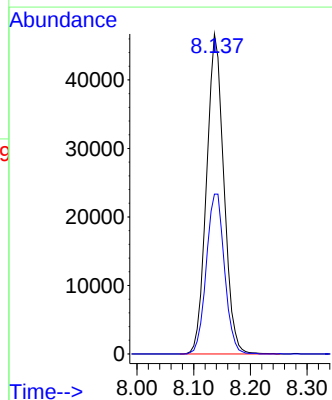
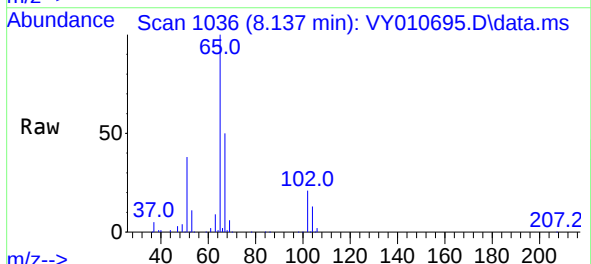


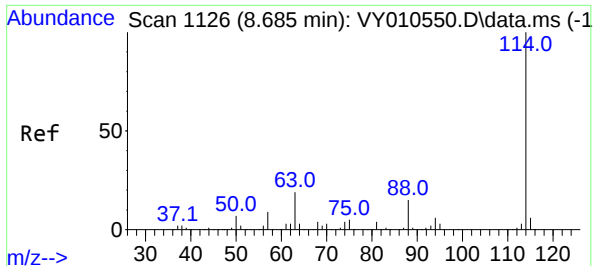
Tgt Ion: 56 Resp: 4316  
Ion Ratio Lower Upper  
56 100  
69 147.3 26.7 40.1#  
84 140.8 67.2 100.8#



#33  
1,2-Dichloroethane-d4  
Concen: 53.845 ug/l  
RT: 8.137 min Scan# 1036  
Delta R.T. -0.000 min  
Lab File: VY010695.D  
Acq: 27 Sep 2022 14:07

Tgt Ion: 65 Resp: 99287  
Ion Ratio Lower Upper  
65 100  
67 52.5 0.0 99.4

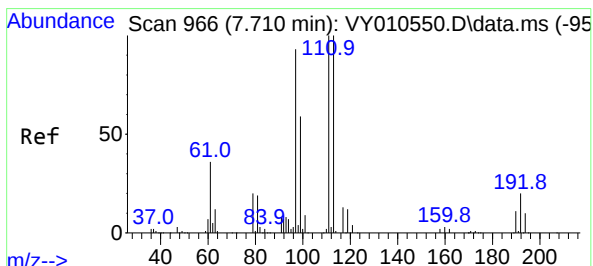
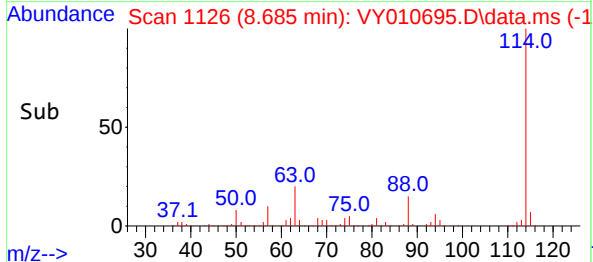
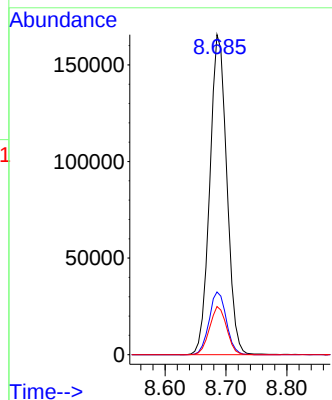
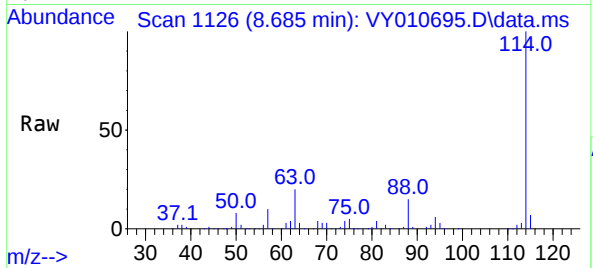




#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 8.685 min Scan# 1126  
Delta R.T. 0.000 min  
Lab File: VY010695.D  
Acq: 27 Sep 2022 14:07

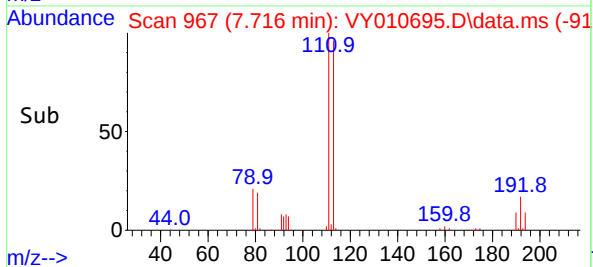
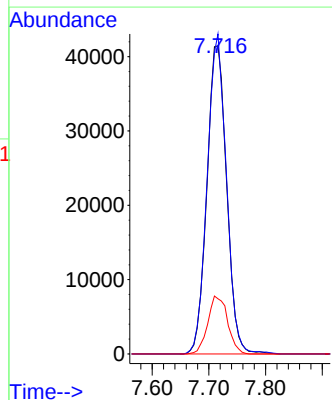
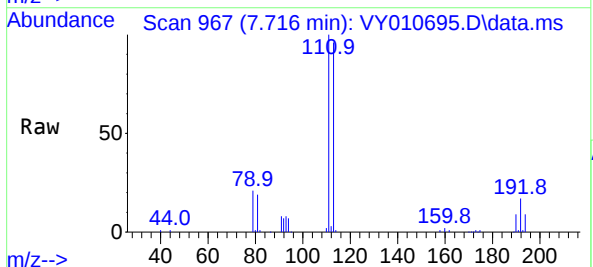
Instrument :  
MSVOA\_Y  
ClientSampleId :

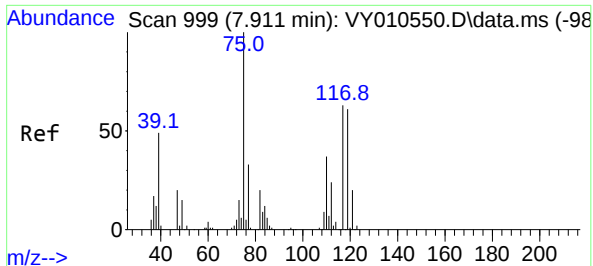
Tgt Ion:114 Resp: 321433  
Ion Ratio Lower Upper  
114 100  
63 19.6 0.0 43.2  
88 15.0 0.0 31.8



#35  
Dibromofluoromethane  
Concen: 48.988 ug/l  
RT: 7.716 min Scan# 967  
Delta R.T. 0.006 min  
Lab File: VY010695.D  
Acq: 27 Sep 2022 14:07

Tgt Ion:113 Resp: 100493  
Ion Ratio Lower Upper  
113 100  
111 100.8 82.6 124.0  
192 18.8 17.6 26.4





#36

1,1-Dichloropropene

Concen: 6.501 ug/l

RT: 7.783 min Scan# 91

Delta R.T. -0.128 min

Lab File: VY010695.D

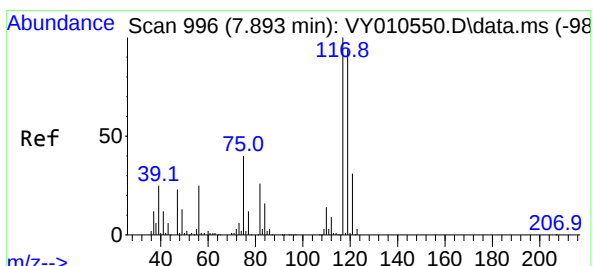
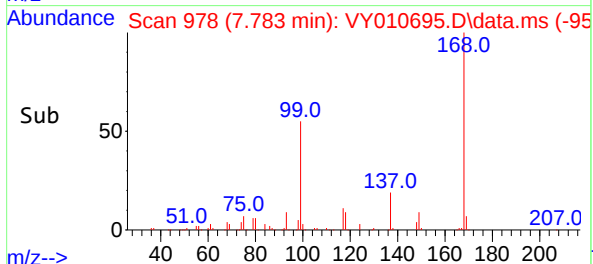
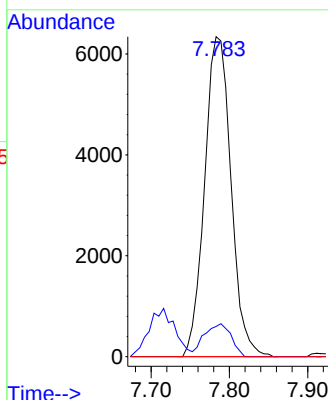
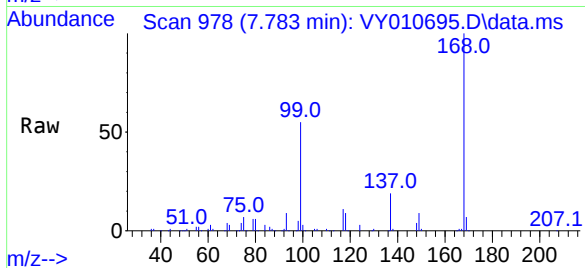
Acq: 27 Sep 2022 14:07

Instrument :

MSVOA\_Y

ClientSampleId :

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 75    | Resp: | 14859 |
| Ion      | Ratio | Lower | Upper |
| 75       | 100   |       |       |
| 110      | 10.4  | 17.1  | 51.2# |
| 77       | 0.0   | 24.4  | 36.6# |



#38

Carbon Tetrachloride

Concen: 7.361 ug/l

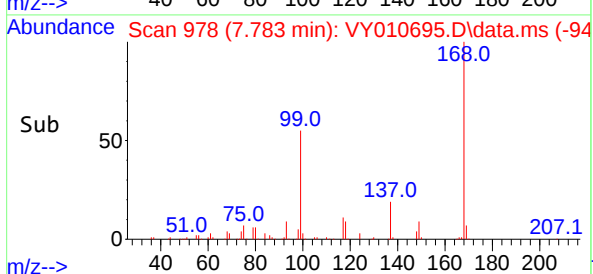
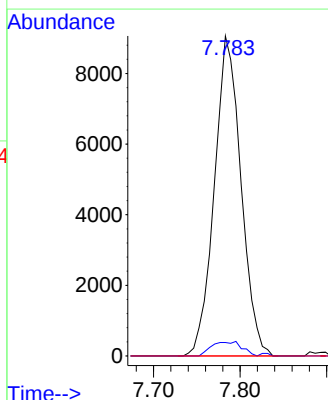
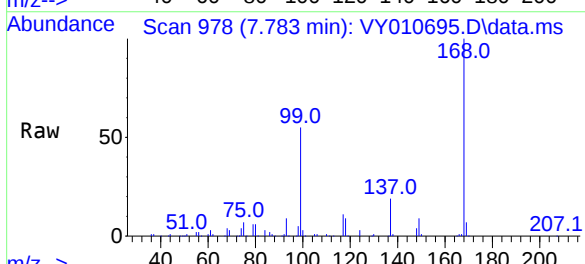
RT: 7.783 min Scan# 978

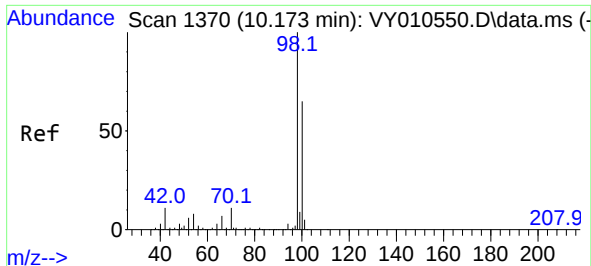
Delta R.T. -0.110 min

Lab File: VY010695.D

Acq: 27 Sep 2022 14:07

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 117   | Resp: | 19345  |
| Ion      | Ratio | Lower | Upper  |
| 117      | 100   |       |        |
| 119      | 4.2   | 77.9  | 116.9# |
| 121      | 0.0   | 24.8  | 37.2#  |

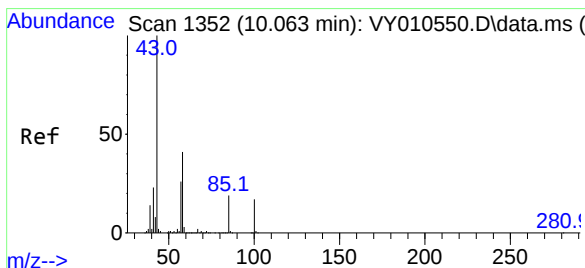
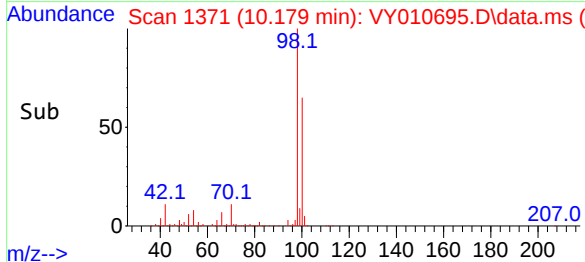
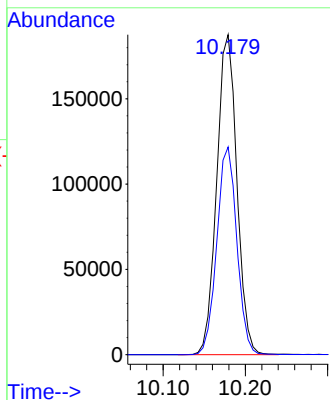
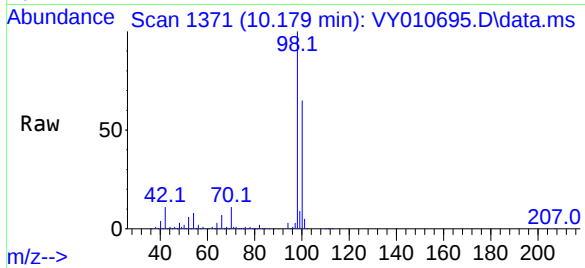




#50  
Toluene-d8  
Concen: 42.713 ug/l  
RT: 10.179 min Scan# 1370  
Delta R.T. 0.006 min  
Lab File: VY010695.D  
Acq: 27 Sep 2022 14:07

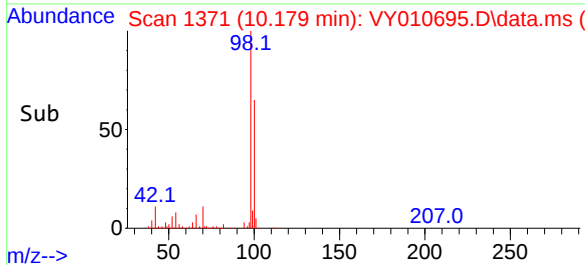
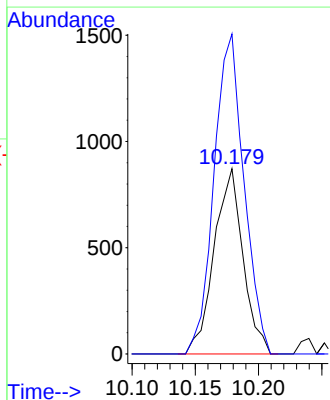
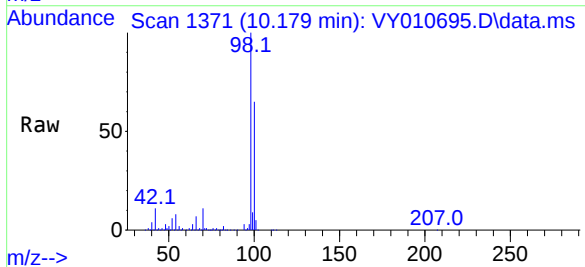
Instrument :  
MSVOA\_Y  
ClientSampleId :

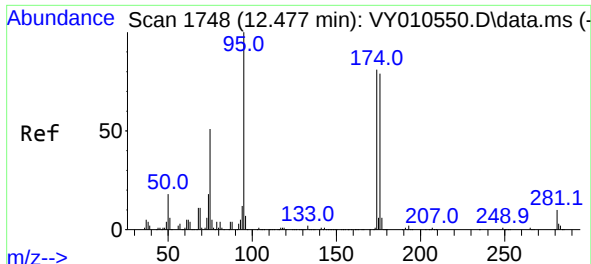
Tgt Ion: 98 Resp: 320147  
Ion Ratio Lower Upper  
98 100  
100 64.6 50.2 75.2



#51  
4-Methyl-2-Pentanone  
Concen: 1.014 ug/l  
RT: 10.179 min Scan# 1371  
Delta R.T. 0.116 min  
Lab File: VY010695.D  
Acq: 27 Sep 2022 14:07

Tgt Ion: 43 Resp: 1385  
Ion Ratio Lower Upper  
43 100  
58 179.1 28.1 42.1#

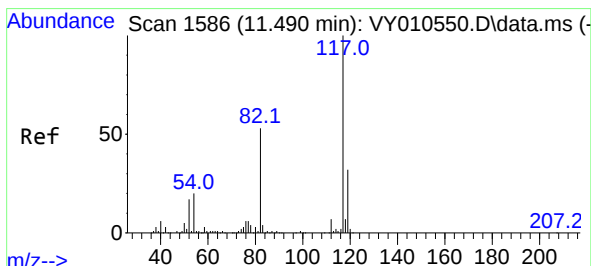
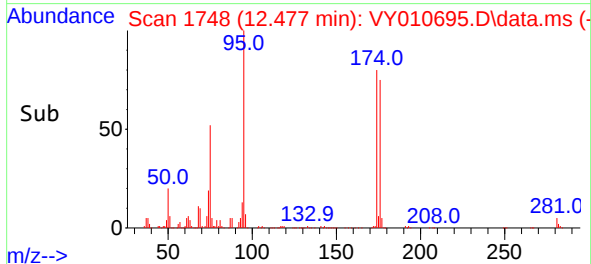
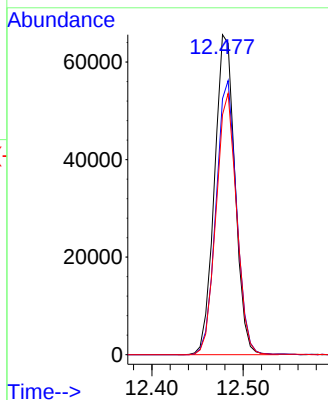
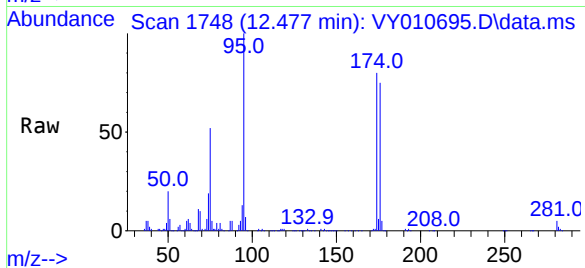




#62  
4-Bromofluorobenzene  
Concen: 35.517 ug/l  
RT: 12.477 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VY010695.D  
Acq: 27 Sep 2022 14:07

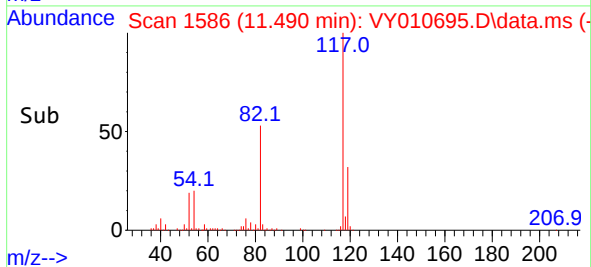
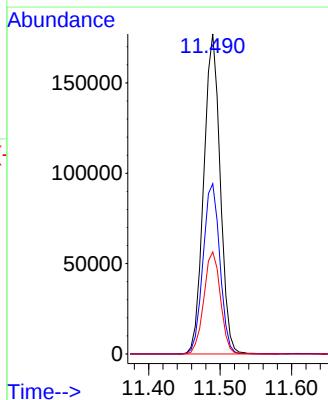
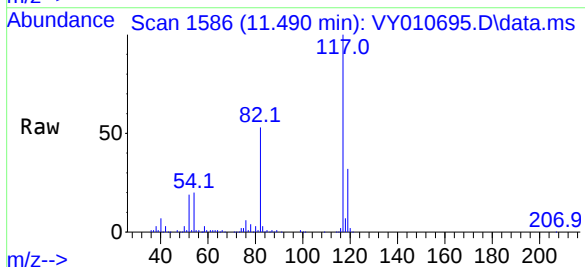
Instrument :  
MSVOA\_Y  
ClientSampleId :

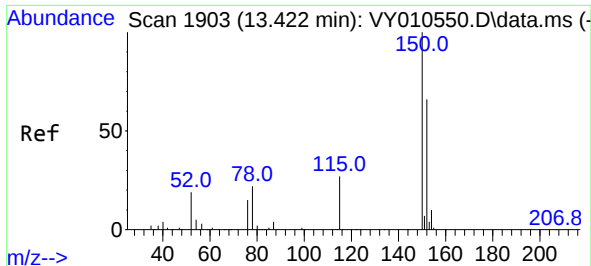
Tgt Ion: 95 Resp: 102136  
Ion Ratio Lower Upper  
95 100  
174 85.8 0.0 177.0  
176 81.7 0.0 175.8



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.490 min Scan# 1586  
Delta R.T. -0.000 min  
Lab File: VY010695.D  
Acq: 27 Sep 2022 14:07

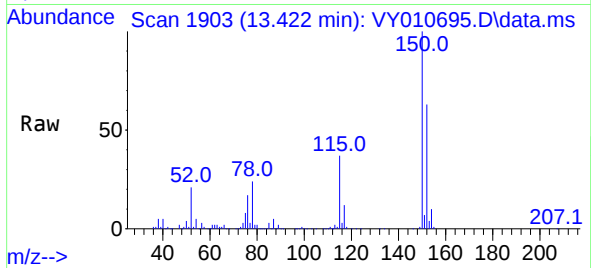
Tgt Ion: 117 Resp: 282788  
Ion Ratio Lower Upper  
117 100  
82 53.2 43.0 64.4  
119 31.9 25.4 38.0



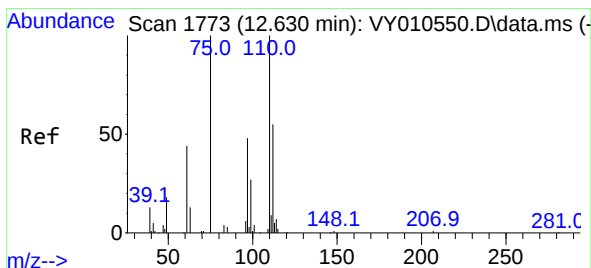
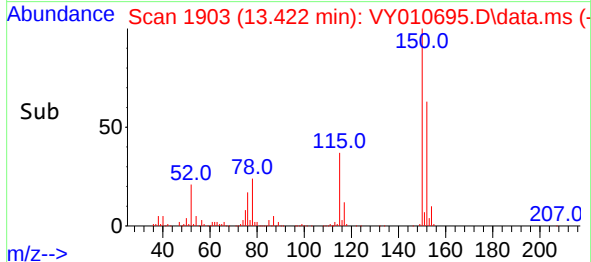
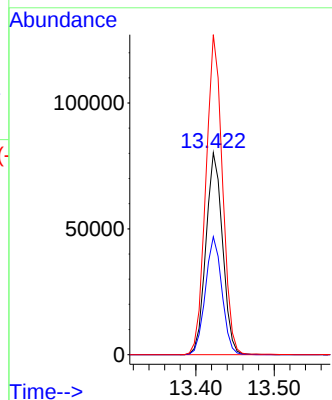


#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.422 min Scan# 1903  
Delta R.T. 0.000 min  
Lab File: VY010695.D  
Acq: 27 Sep 2022 14:07

Instrument :  
MSVOA\_Y  
ClientSampleId :

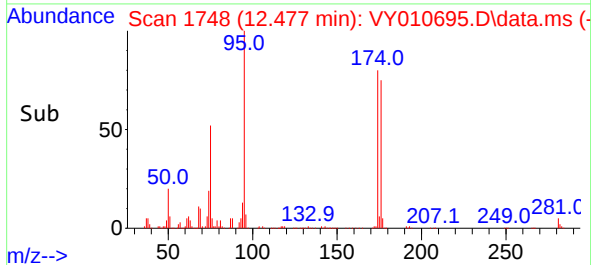
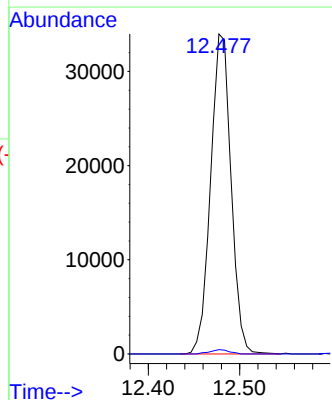
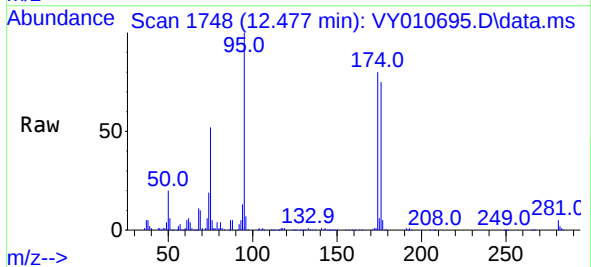


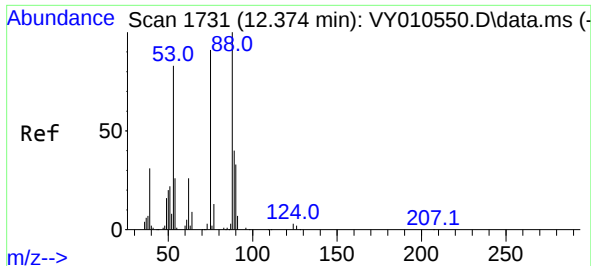
Tgt Ion:152 Resp: 118228  
Ion Ratio Lower Upper  
152 100  
115 57.9 28.2 84.7  
150 157.8 0.0 347.6



#76  
1,2,3-Trichloropropane  
Concen: 46.774 ug/l  
RT: 12.477 min Scan# 1748  
Delta R.T. -0.153 min  
Lab File: VY010695.D  
Acq: 27 Sep 2022 14:07

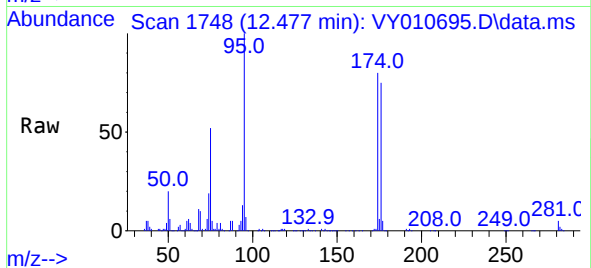
Tgt Ion: 75 Resp: 52780  
Ion Ratio Lower Upper  
75 100  
77 1.3 0.0 0.0#





#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 103.999 ug/l  
 RT: 12.477 min Scan# 11  
 Delta R.T. 0.103 min  
 Lab File: VY010695.D  
 Acq: 27 Sep 2022 14:07

Instrument :  
 MSVOA\_Y  
 ClientSampleId :



Tgt Ion: 75 Resp: 52780  
 Ion Ratio Lower Upper  
 75 100  
 53 0.1 85.3 127.9#  
 89 0.0 37.0 55.4#

