

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY112322\  
 Data File : VY011578.D  
 Acq On : 23 Nov 2022 16:21  
 Operator : KP/MD  
 Sample : N5762-05  
 Misc : 5.10g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :

Quant Time: Nov 24 00:38:40 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y111822S.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Nov 19 22:37:14 2022  
 Response via : Initial Calibration

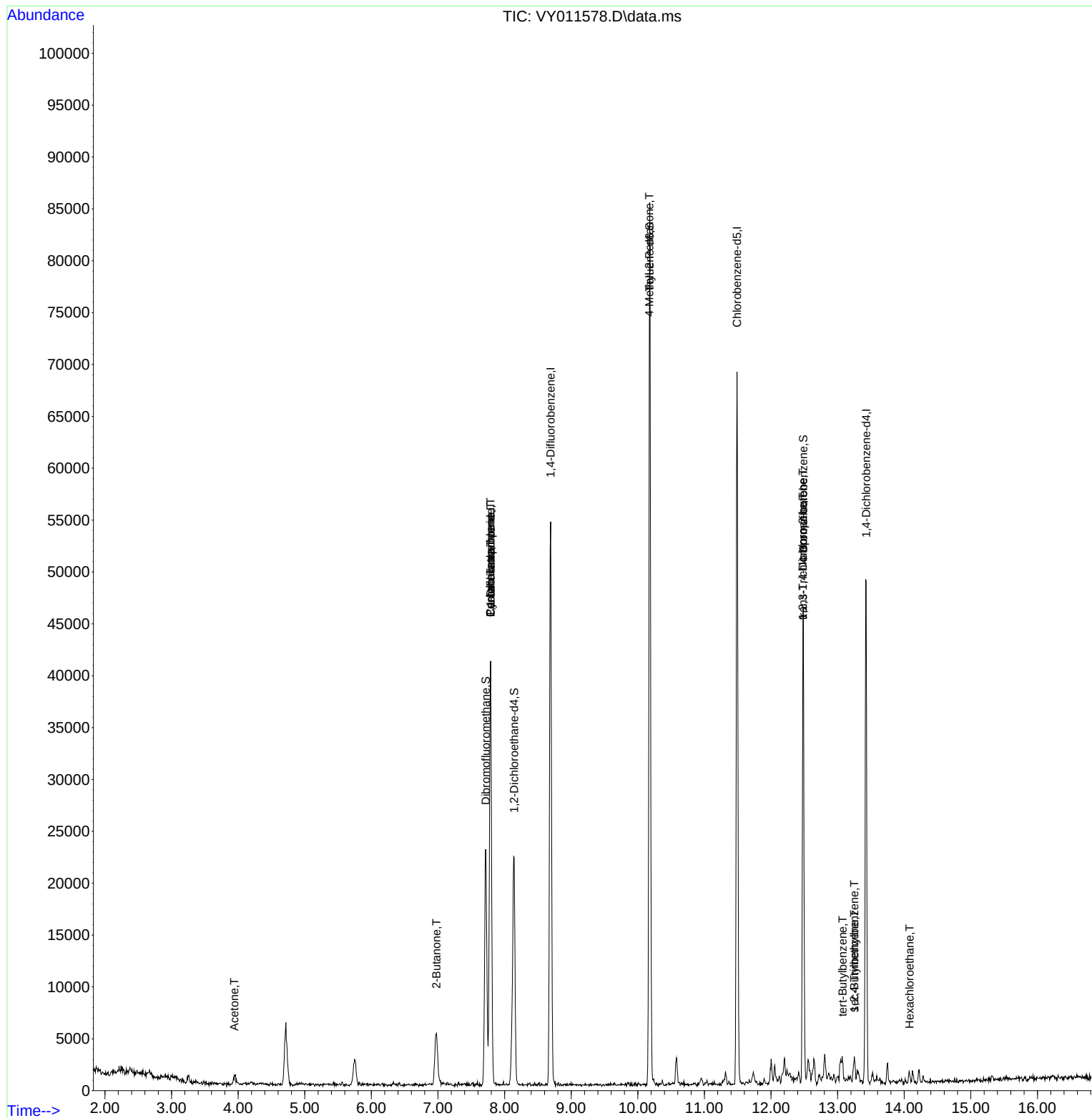
| Compound                      | R.T. QIon |       | Response | Conc      | Units      | Dev(Min) |
|-------------------------------|-----------|-------|----------|-----------|------------|----------|
| -----                         |           |       |          |           |            |          |
| Internal Standards            |           |       |          |           |            |          |
| 1) Pentafluorobenzene         | 7.789     | 168   | 30716    | 50.000    | ug/l       | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.691     | 114   | 46963    | 50.000    | ug/l       | 0.00     |
| 63) Chlorobenzene-d5          | 11.490    | 117   | 37378    | 50.000    | ug/l       | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.428    | 152   | 13292    | 50.000    | ug/l       | 0.00     |
| System Monitoring Compounds   |           |       |          |           |            |          |
| 33) 1,2-Dichloroethane-d4     | 8.143     | 65    | 16006    | 51.320    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000    | Range | 50 - 163 | Recovery  | = 102.640% |          |
| 35) Dibromofluoromethane      | 7.716     | 113   | 15949    | 55.168    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000    | Range | 54 - 147 | Recovery  | = 110.340% |          |
| 50) Toluene-d8                | 10.179    | 98    | 54284    | 51.671    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000    | Range | 49 - 140 | Recovery  | = 103.340% |          |
| 62) 4-Bromofluorobenzene      | 12.483    | 95    | 12993    | 33.450    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000    | Range | 25 - 144 | Recovery  | = 66.900%  |          |
| Target Compounds              |           |       |          |           |            |          |
|                               |           |       |          |           | Qvalue     |          |
| 2) Dichlorodifluoromethane    | 1.912     | 85    | 87       | Below Cal | #          | 43       |
| 3) Chloromethane              | 2.107     | 50    | 55       | Below Cal | #          | 44       |
| 5) Bromomethane               | 2.674     | 94    | 78       | Below Cal |            | 99       |
| 11) Tert butyl alcohol        | 4.960     | 59    | 141      | Below Cal | #          | 77       |
| 16) Acetone                   | 3.942     | 43    | 1415     | 13.967    | ug/l #     | 79       |
| 20) Methylene Chloride        | 4.716     | 84    | 3853     | Below Cal | #          | 83       |
| 25) 2-Butanone                | 6.978     | 43    | 328      | 2.464     | ug/l #     | 54       |
| 31) Cyclohexane               | 7.789     | 56    | 744      | 1.439     | ug/l #     | 12       |
| 36) 1,1-Dichloropropene       | 7.789     | 75    | 2550     | 5.643     | ug/l #     | 49       |
| 38) Carbon Tetrachloride      | 7.789     | 117   | 3032     | 5.997     | ug/l #     | 17       |
| 51) 4-Methyl-2-Pentanone      | 10.173    | 43    | 299      | 1.159     | ug/l #     | 1        |
| 76) 1,2,3-Trichloropropane    | 12.477    | 75    | 6795     | 47.469    | ug/l #     | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.477    | 75    | 6795     | 103.973   | ug/l #     | 7        |
| 83) tert-Butylbenzene         | 13.075    | 119   | 1236     | 1.751     | ug/l       | 97       |
| 84) 1,2,4-Trimethylbenzene    | 13.251    | 105   | 1507     | 1.883     | ug/l #     | 31       |
| 85) sec-Butylbenzene          | 13.251    | 105   | 1507     | 1.431     | ug/l #     | 73       |
| 90) Hexachloroethane          | 14.081    | 117   | 334      | 1.882     | ug/l #     | 6        |
| -----                         |           |       |          |           |            |          |

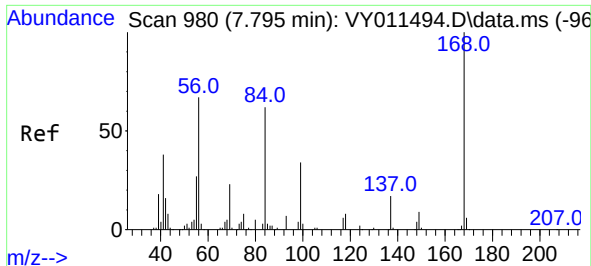
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ClientSampleId :

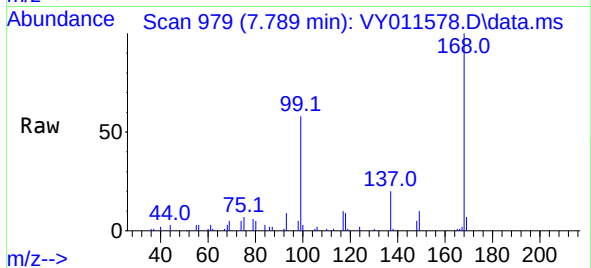
Quant Time: Nov 24 00:38:40 2022  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y111822S.M  
Quant Title : SW846 8260  
QLast Update : Sat Nov 19 22:37:14 2022  
Response via : Initial Calibration



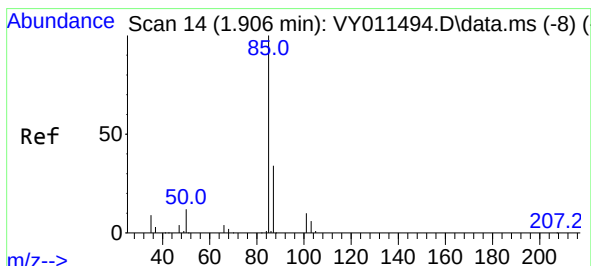
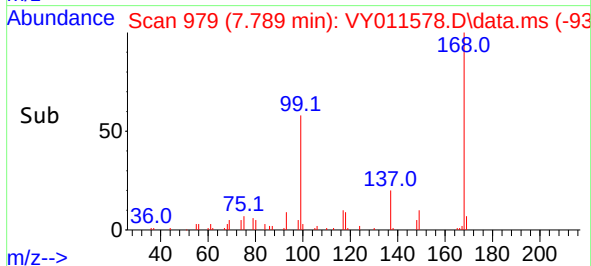
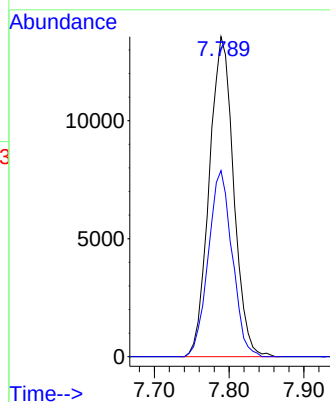


#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.789 min Scan# 91  
Delta R.T. -0.006 min  
Lab File: VY011578.D  
Acq: 23 Nov 2022 16:21

Instrument :  
MSVOA\_Y  
ClientSampleId :

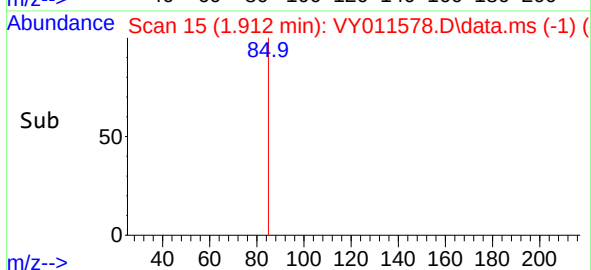
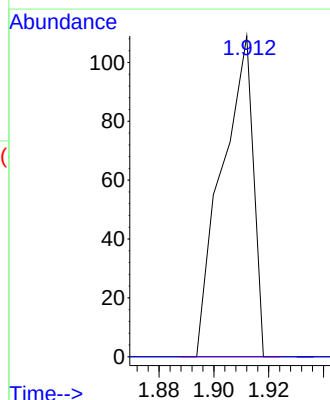
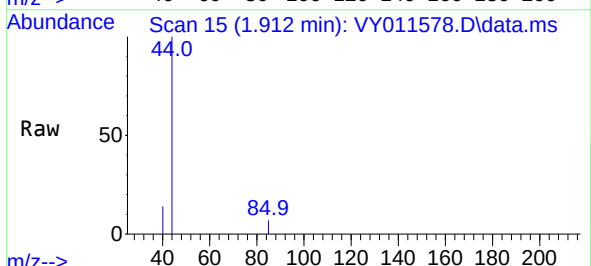


Tgt Ion:168 Resp: 30716  
Ion Ratio Lower Upper  
168 100  
99 58.2 46.9 70.3

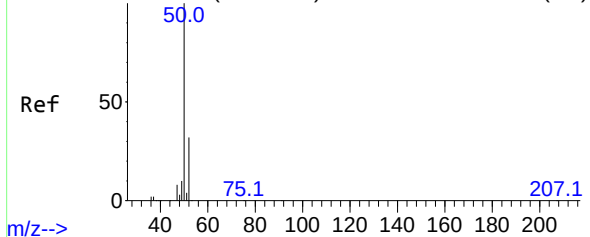


#2  
Dichlorodifluoromethane  
Concen: Below Cal  
RT: 1.912 min Scan# 15  
Delta R.T. 0.006 min  
Lab File: VY011578.D  
Acq: 23 Nov 2022 16:21

Tgt Ion: 85 Resp: 87  
Ion Ratio Lower Upper  
85 100  
87 0.0 16.1 48.2#

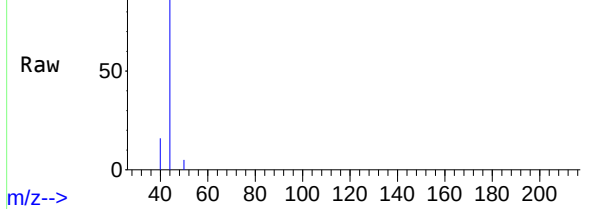


Abundance Scan 49 (2.119 min): VY011494.D\data.ms (-41)



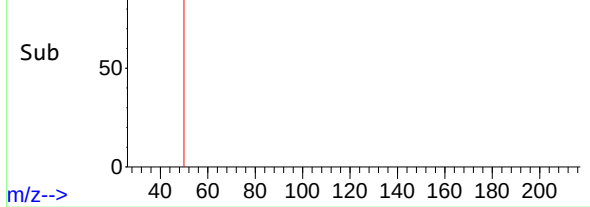
m/z-->

Abundance Scan 47 (2.107 min): VY011578.D\data.ms



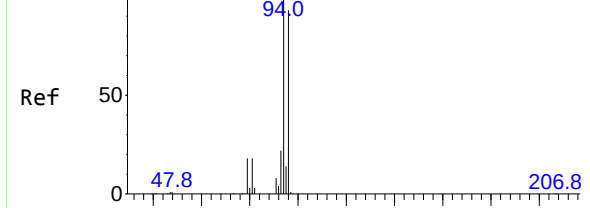
m/z-->

Abundance Scan 47 (2.107 min): VY011578.D\data.ms (-1)



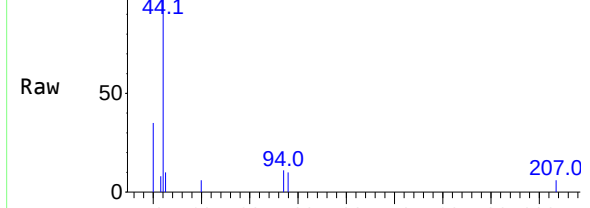
m/z-->

Abundance Scan 137 (2.656 min): VY011494.D\data.ms (-12)



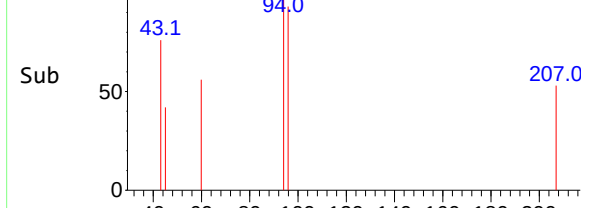
m/z-->

Abundance Scan 140 (2.674 min): VY011578.D\data.ms



m/z-->

Abundance Scan 140 (2.674 min): VY011578.D\data.ms (-88)



m/z-->

#3

Chloromethane

Concen: Below Cal

RT: 2.107 min Scan# 41

Delta R.T. -0.012 min

Lab File: VY011578.D

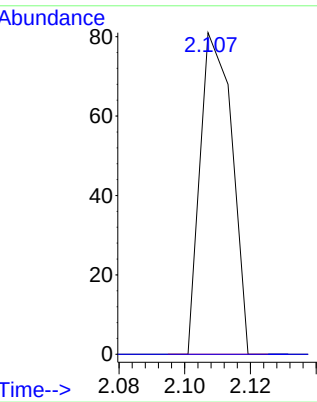
Acq: 23 Nov 2022 16:21

Tgt Ion: 50 Resp: 55

Ion Ratio Lower Upper

50 100

52 0.0 24.6 37.0#



#5

Bromomethane

Concen: Below Cal

RT: 2.674 min Scan# 140

Delta R.T. 0.018 min

Lab File: VY011578.D

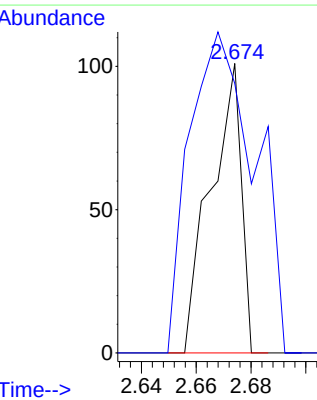
Acq: 23 Nov 2022 16:21

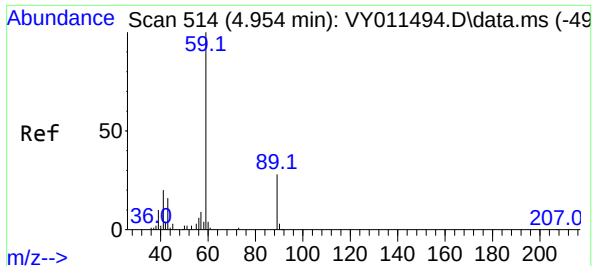
Tgt Ion: 94 Resp: 78

Ion Ratio Lower Upper

94 100

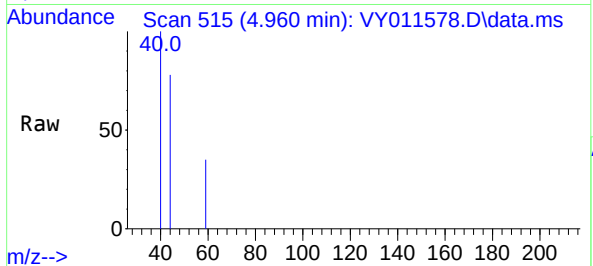
96 93.1 73.5 110.3



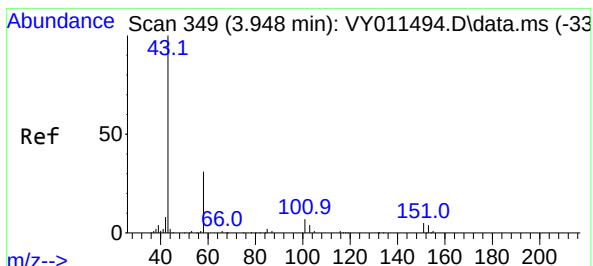
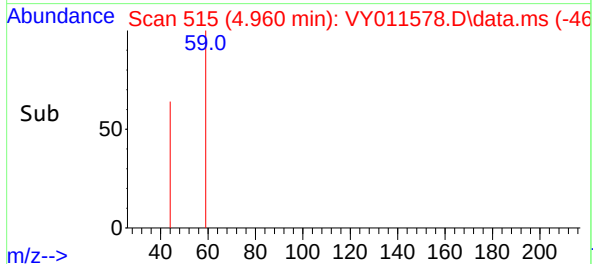
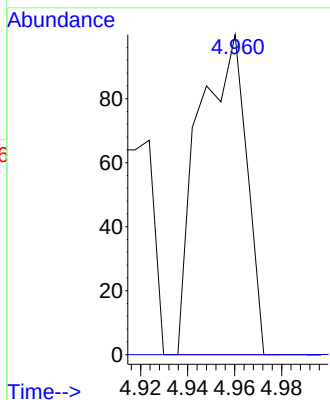


#11  
Tert butyl alcohol  
Concen: Below Cal  
RT: 4.960 min Scan# 51  
Delta R.T. 0.006 min  
Lab File: VY011578.D  
Acq: 23 Nov 2022 16:21

Instrument :  
MSVOA\_Y  
ClientSampleId :

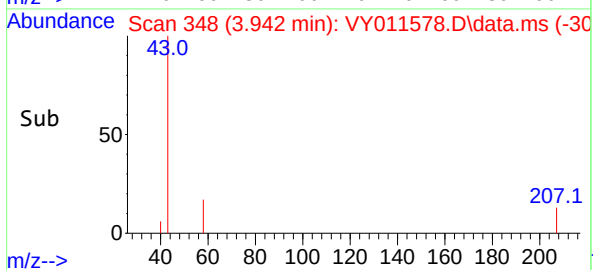
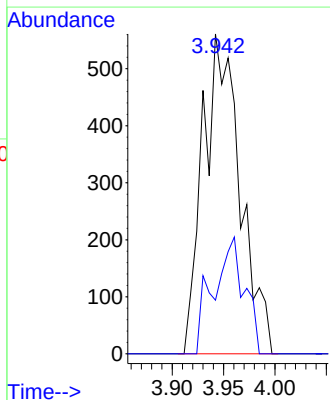
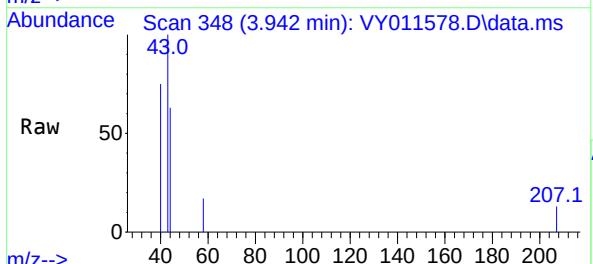


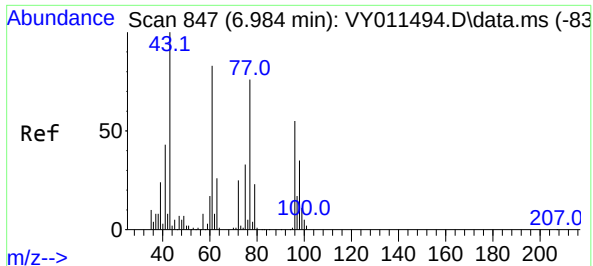
Tgt Ion: 59 Resp: 141  
Ion Ratio Lower Upper  
59 100  
57 0.0 6.4 9.6#



#16  
Acetone  
Concen: 13.967 ug/l  
RT: 3.942 min Scan# 348  
Delta R.T. -0.006 min  
Lab File: VY011578.D  
Acq: 23 Nov 2022 16:21

Tgt Ion: 43 Resp: 1415  
Ion Ratio Lower Upper  
43 100  
58 16.8 22.0 33.0#





#25

2-Butanone

Concen: 2.464 ug/l

RT: 6.978 min Scan# 84

Delta R.T. -0.006 min

Lab File: VY011578.D

Acq: 23 Nov 2022 16:21

Instrument :

MSVOA\_Y

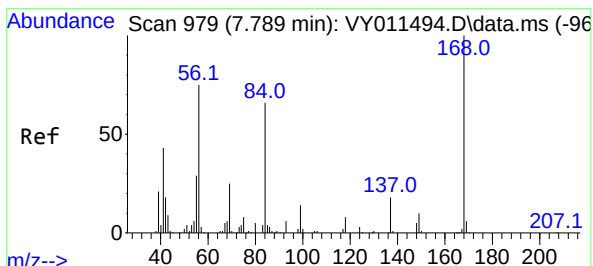
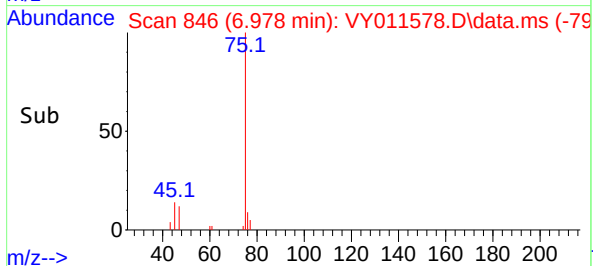
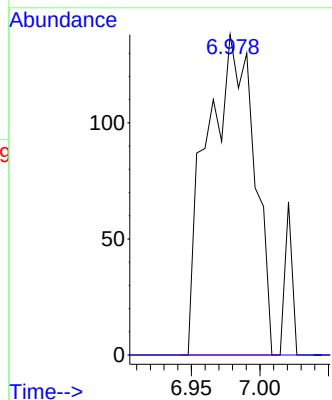
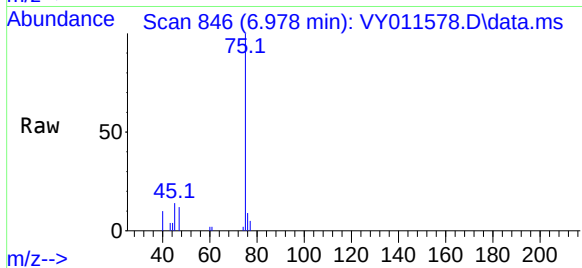
ClientSampleId :

Tgt Ion: 43 Resp: 328

Ion Ratio Lower Upper

43 100

72 0.0 17.7 26.5#



#31

Cyclohexane

Concen: 1.439 ug/l

RT: 7.789 min Scan# 979

Delta R.T. -0.000 min

Lab File: VY011578.D

Acq: 23 Nov 2022 16:21

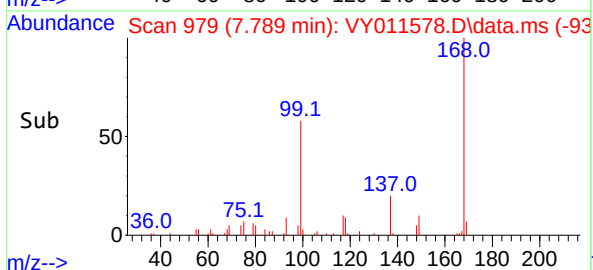
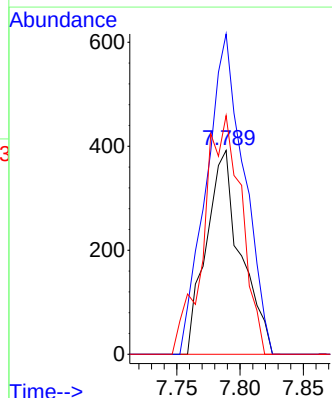
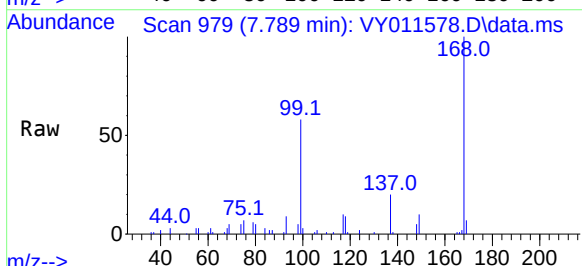
Tgt Ion: 56 Resp: 744

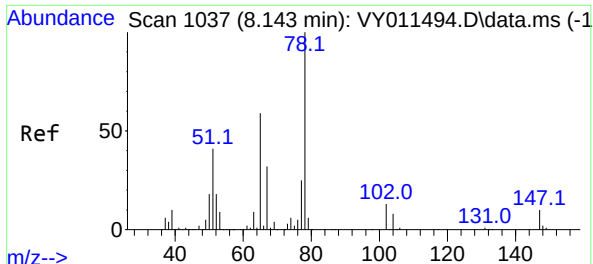
Ion Ratio Lower Upper

56 100

69 157.1 26.7 40.1#

84 117.1 67.2 100.8#

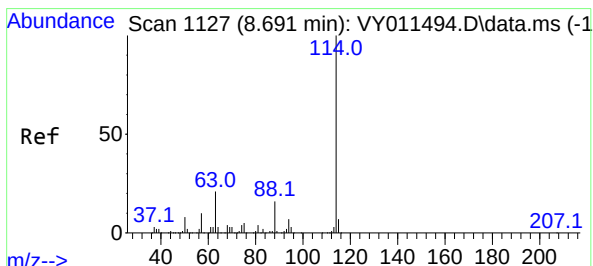
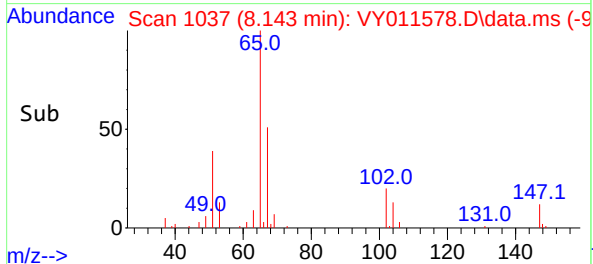
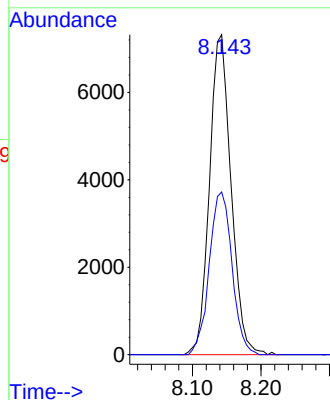
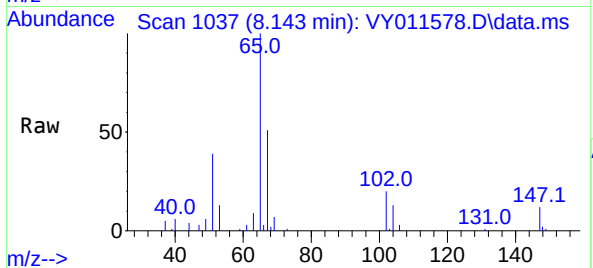




#33  
1,2-Dichloroethane-d4  
Concen: 51.320 ug/l  
RT: 8.143 min Scan# 1037  
Delta R.T. -0.000 min  
Lab File: VY011578.D  
Acq: 23 Nov 2022 16:21

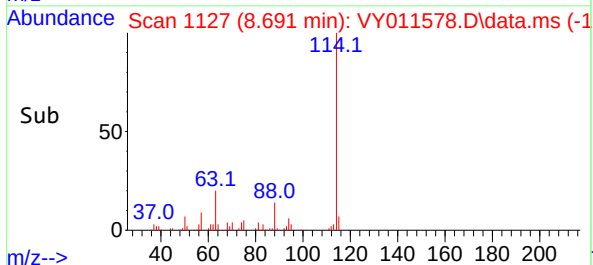
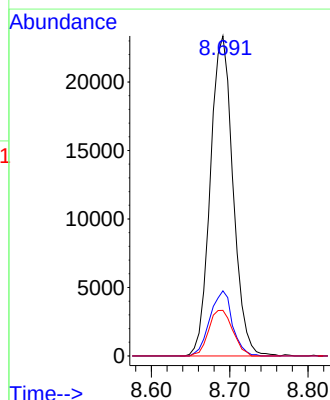
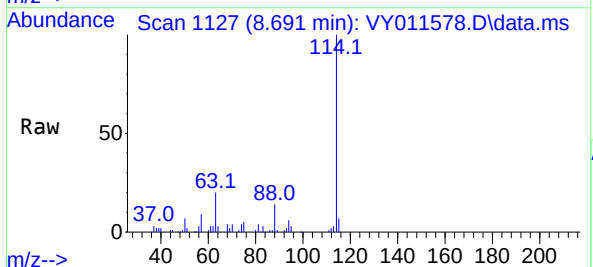
Instrument :  
MSVOA\_Y  
ClientSampleId :

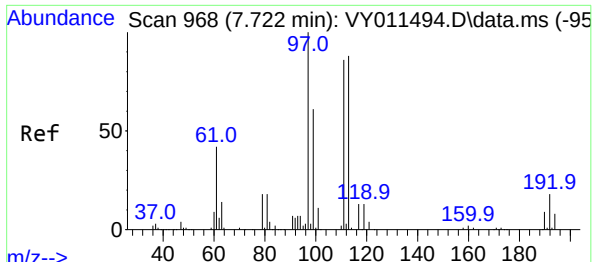
Tgt Ion: 65 Resp: 16006  
Ion Ratio Lower Upper  
65 100  
67 53.7 0.0 99.4



#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 8.691 min Scan# 1127  
Delta R.T. 0.000 min  
Lab File: VY011578.D  
Acq: 23 Nov 2022 16:21

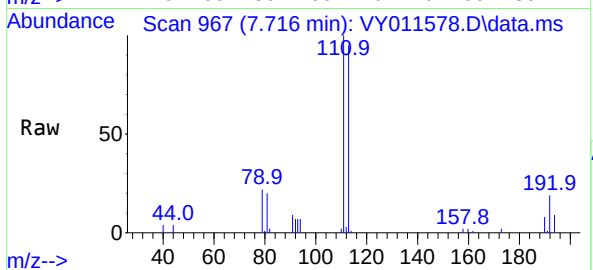
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Ion Ratio Lower Upper  
114 100  
63 20.4 0.0 43.2  
88 14.2 0.0 31.8



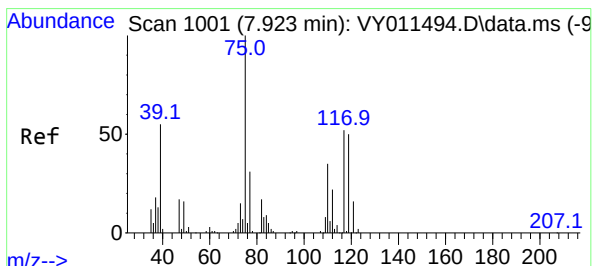
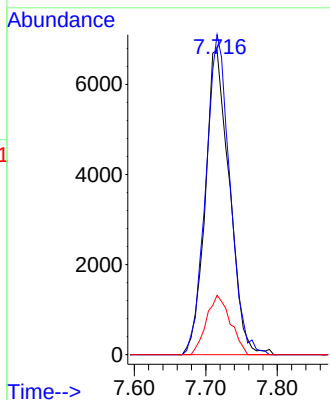
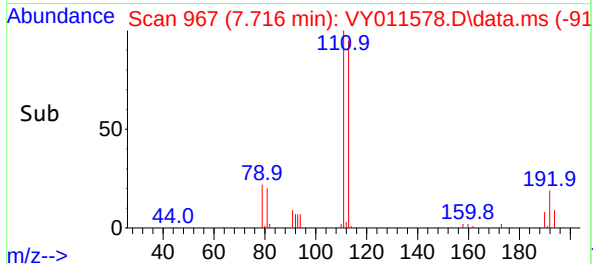


#35  
Dibromofluoromethane  
Concen: 55.168 ug/l  
RT: 7.716 min Scan# 911  
Delta R.T. -0.006 min  
Lab File: VY011578.D  
Acq: 23 Nov 2022 16:21

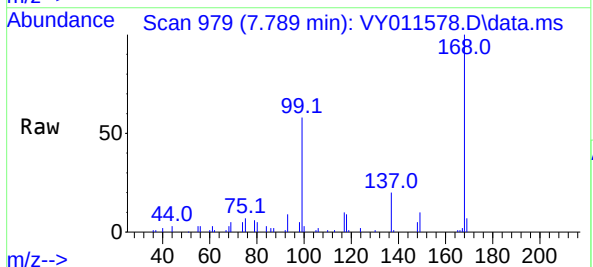
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MSVOA\_Y  
ClientSampleId :



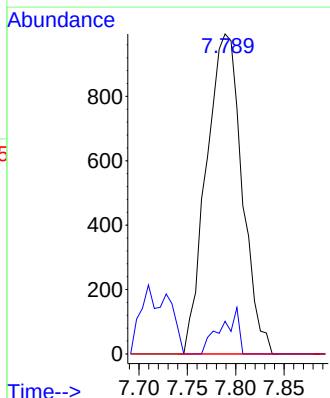
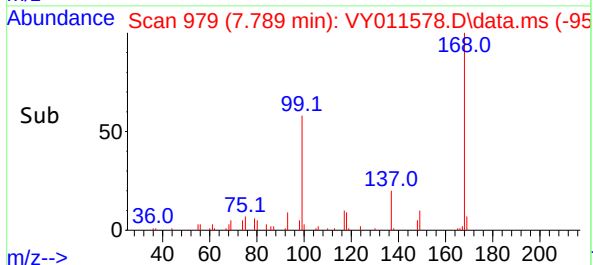
Tgt Ion:113 Resp: 15949  
Ion Ratio Lower Upper  
113 100  
111 104.4 82.6 124.0  
192 19.2 17.6 26.4



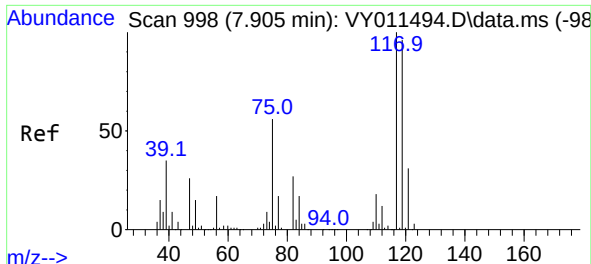
#36  
1,1-Dichloropropene  
Concen: 5.643 ug/l  
RT: 7.789 min Scan# 979  
Delta R.T. -0.134 min  
Lab File: VY011578.D  
Acq: 23 Nov 2022 16:21



Tgt Ion: 75 Resp: 2550  
Ion Ratio Lower Upper  
75 100  
110 7.2 17.1 51.2#  
77 0.0 24.4 36.6#

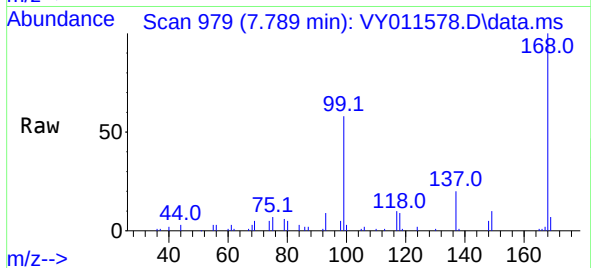




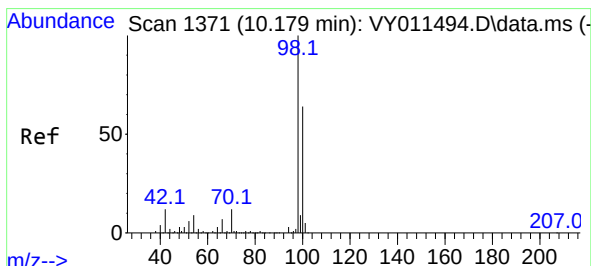
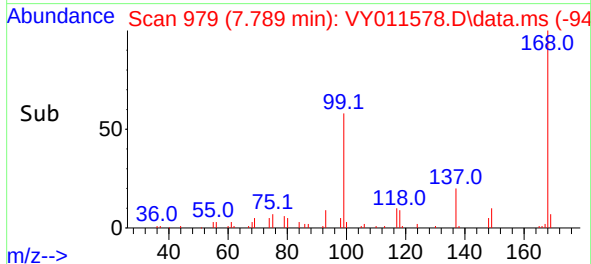
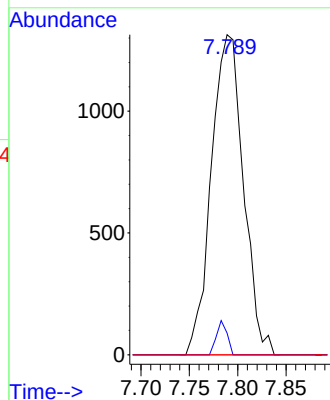


#38  
Carbon Tetrachloride  
Concen: 5.997 ug/l  
RT: 7.789 min Scan# 91  
Delta R.T. -0.116 min  
Lab File: VY011578.D  
Acq: 23 Nov 2022 16:21

Instrument :  
MSVOA\_Y  
ClientSampleId :

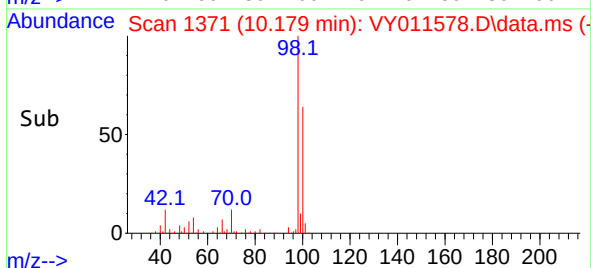
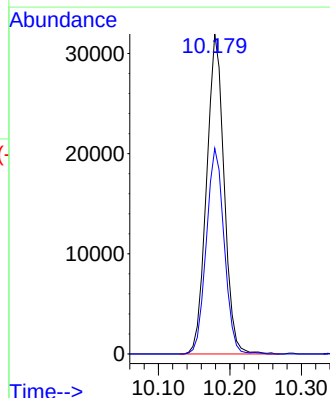
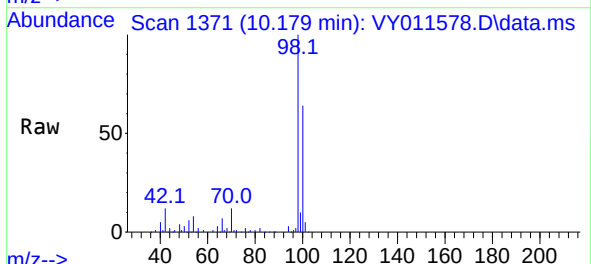


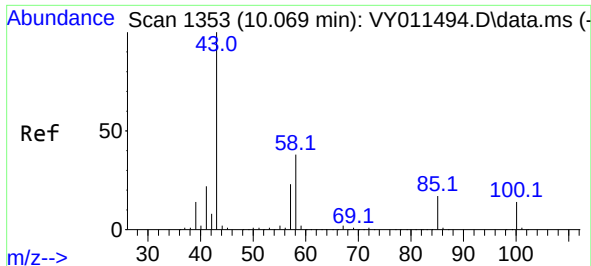
Tgt Ion:117 Resp: 3032  
Ion Ratio Lower Upper  
117 100  
119 6.8 77.9 116.9#  
121 0.0 24.8 37.2#



#50  
Toluene-d8  
Concen: 51.671 ug/l  
RT: 10.179 min Scan# 1371  
Delta R.T. -0.000 min  
Lab File: VY011578.D  
Acq: 23 Nov 2022 16:21

Tgt Ion: 98 Resp: 54284  
Ion Ratio Lower Upper  
98 100  
100 65.5 50.2 75.2

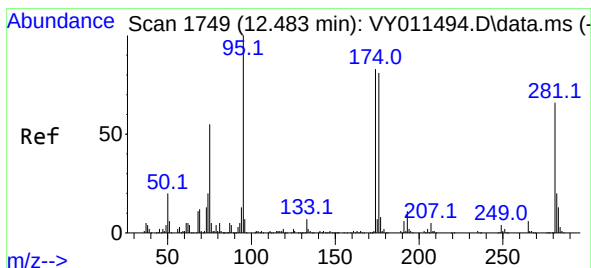
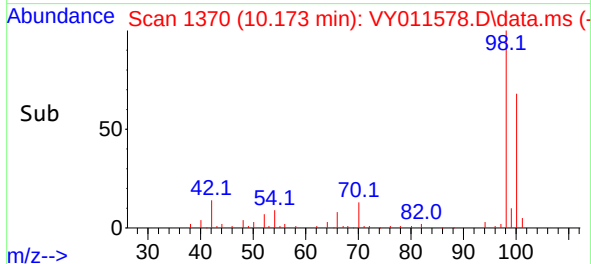
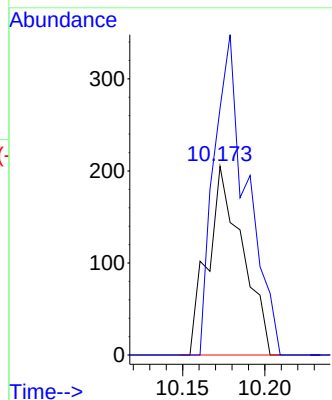
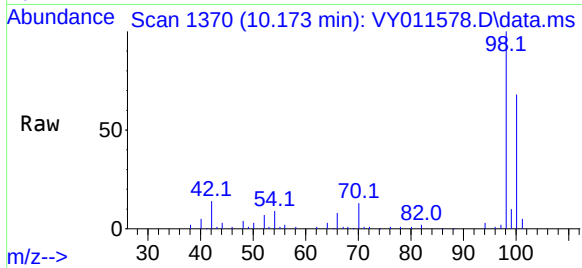




#51  
4-Methyl-2-Pentanone  
Concen: 1.159 ug/l  
RT: 10.173 min Scan# 11  
Delta R.T. 0.104 min  
Lab File: VY011578.D  
Acq: 23 Nov 2022 16:21

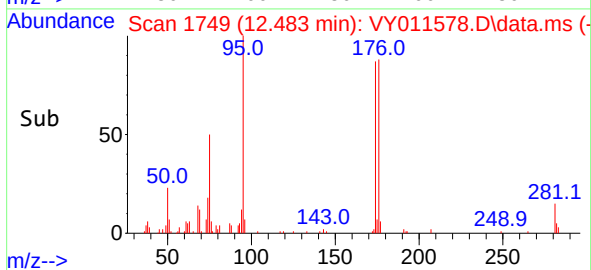
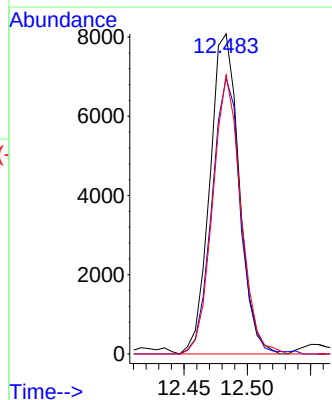
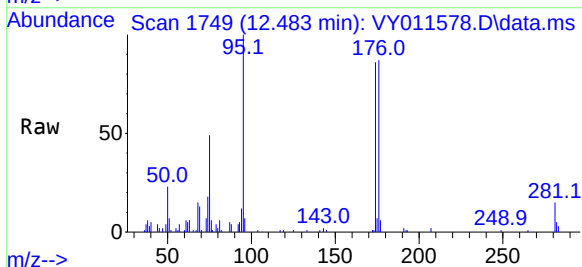
Instrument :  
MSVOA\_Y  
ClientSampleId :

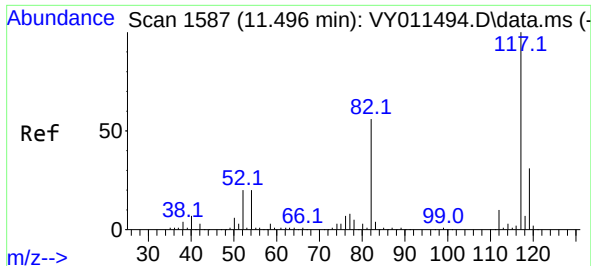
Tgt Ion: 43 Resp: 299  
Ion Ratio Lower Upper  
43 100  
58 162.2 28.1 42.1#



#62  
4-Bromofluorobenzene  
Concen: 33.450 ug/l  
RT: 12.483 min Scan# 1749  
Delta R.T. 0.000 min  
Lab File: VY011578.D  
Acq: 23 Nov 2022 16:21

Tgt Ion: 95 Resp: 12993  
Ion Ratio Lower Upper  
95 100  
174 84.5 0.0 177.0  
176 83.5 0.0 175.8

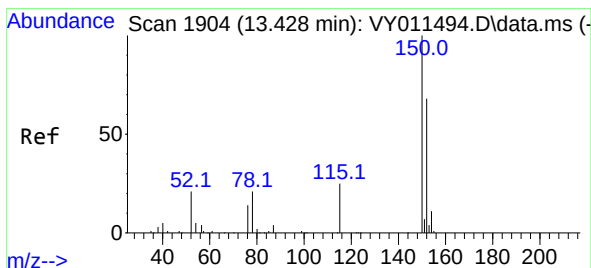
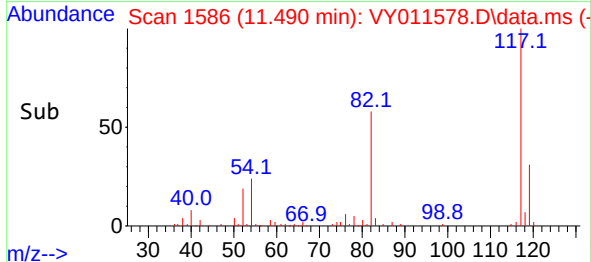
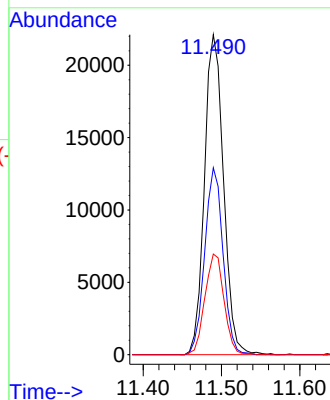
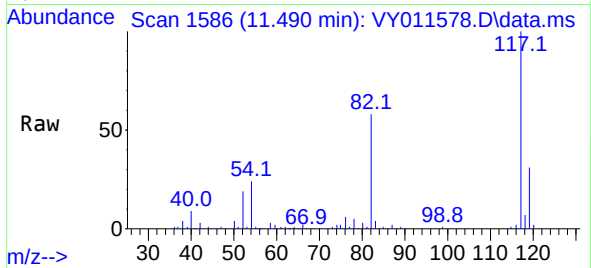




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.490 min Scan# 117  
Delta R.T. -0.006 min  
Lab File: VY011578.D  
Acq: 23 Nov 2022 16:21

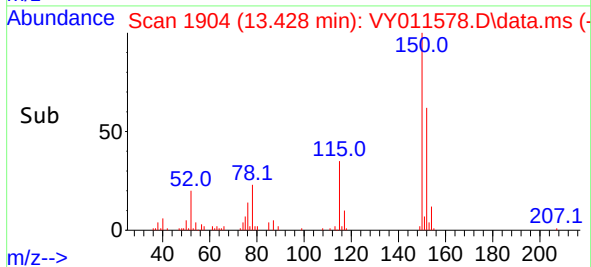
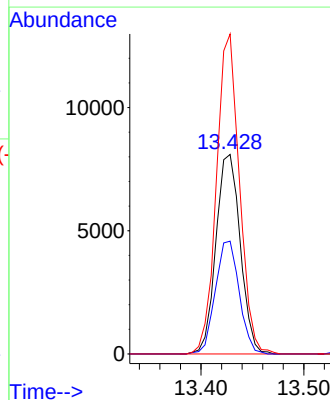
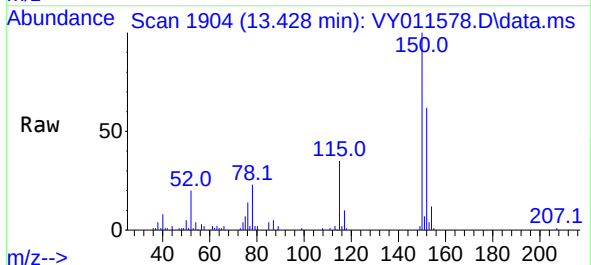
Instrument :  
MSVOA\_Y  
ClientSampleId :

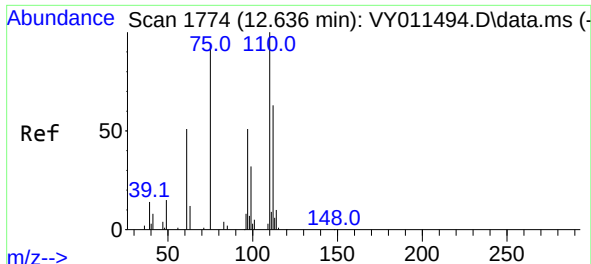
Tgt Ion:117 Resp: 37378  
Ion Ratio Lower Upper  
117 100  
82 58.4 43.0 64.4  
119 31.5 25.4 38.0



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.428 min Scan# 1904  
Delta R.T. 0.000 min  
Lab File: VY011578.D  
Acq: 23 Nov 2022 16:21

Tgt Ion:152 Resp: 13292  
Ion Ratio Lower Upper  
152 100  
115 55.5 28.2 84.7  
150 151.4 0.0 347.6

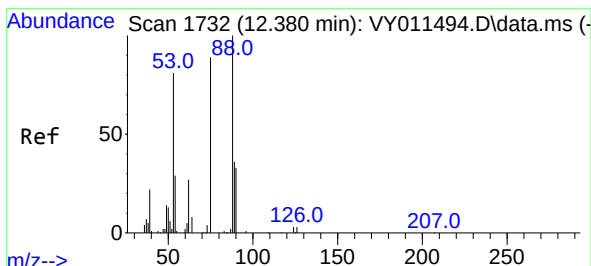
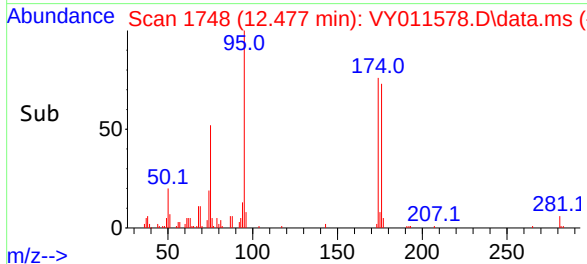
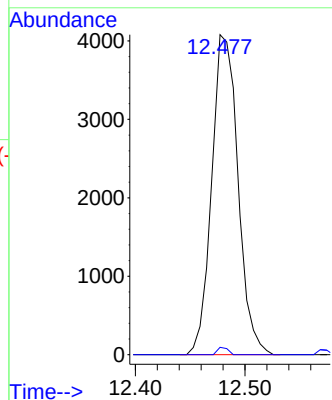
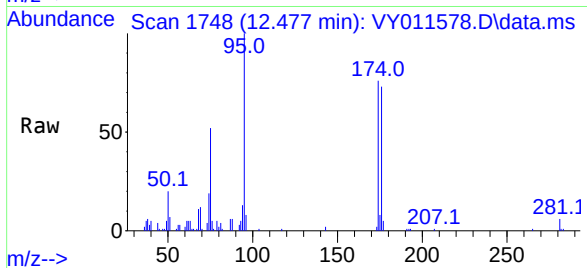




#76  
1,2,3-Trichloropropane  
Concen: 47.469 ug/l  
RT: 12.477 min Scan# 1748  
Delta R.T. -0.159 min  
Lab File: VY011578.D  
Acq: 23 Nov 2022 16:21

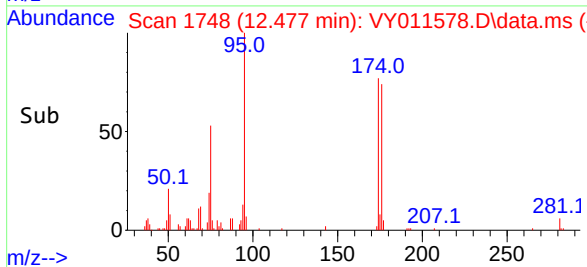
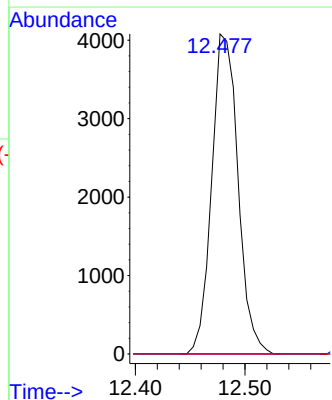
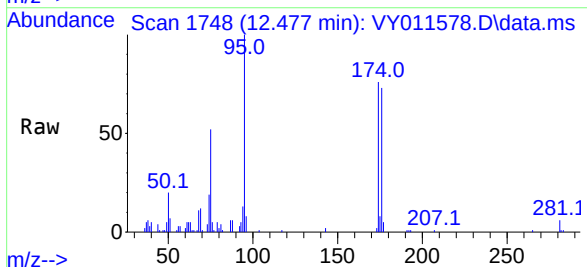
Instrument :  
MSVOA\_Y  
ClientSampleId :

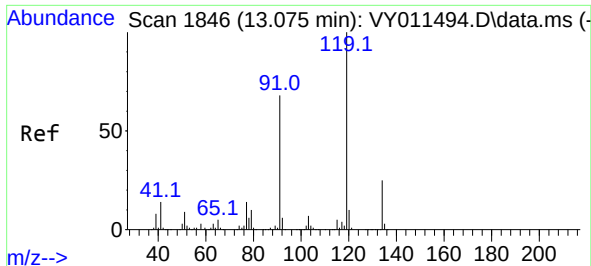
Tgt Ion: 75 Resp: 6795  
Ion Ratio Lower Upper  
75 100  
77 0.9 0.0 0.0#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 103.973 ug/l  
RT: 12.477 min Scan# 1748  
Delta R.T. 0.097 min  
Lab File: VY011578.D  
Acq: 23 Nov 2022 16:21

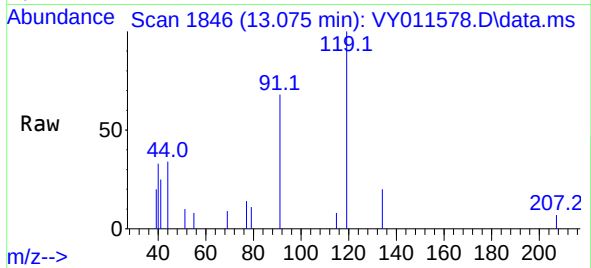
Tgt Ion: 75 Resp: 6795  
Ion Ratio Lower Upper  
75 100  
53 0.0 85.3 127.9#  
89 0.0 37.0 55.4#



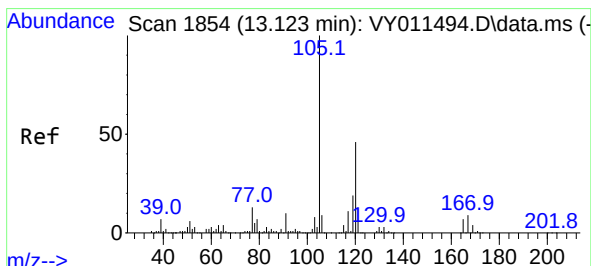
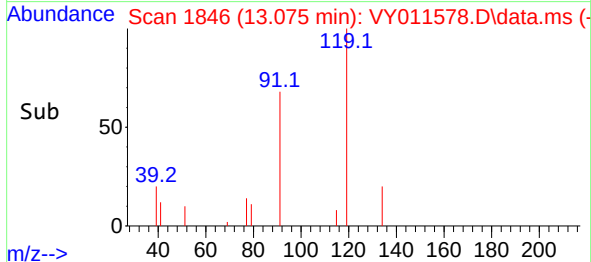
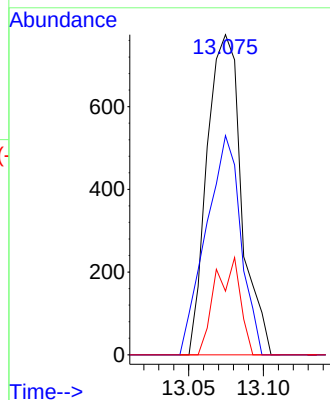


#83  
tert-Butylbenzene  
Concen: 1.751 ug/l  
RT: 13.075 min Scan# 1846  
Delta R.T. -0.000 min  
Lab File: VY011578.D  
Acq: 23 Nov 2022 16:21

Instrument :  
MSVOA\_Y  
ClientSampleId :

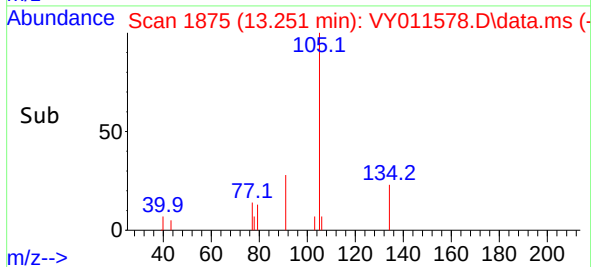
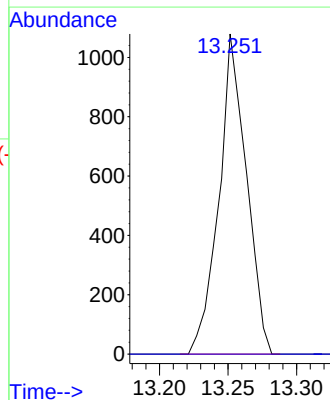
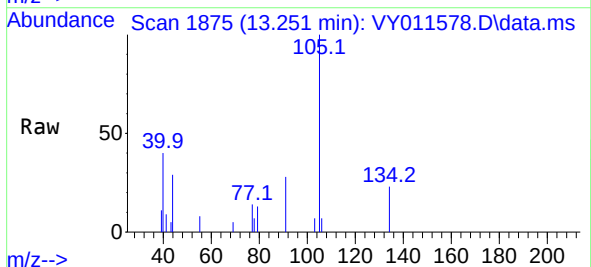


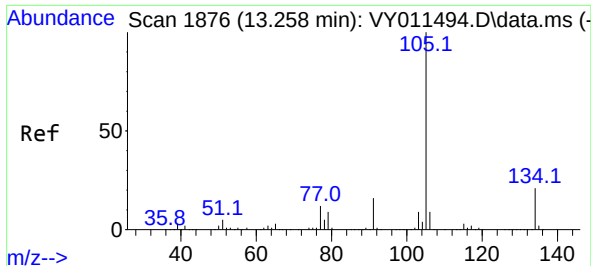
Tgt Ion:119 Resp: 1236  
Ion Ratio Lower Upper  
119 100  
91 69.3 34.8 104.4  
134 22.1 13.3 39.9



#84  
1,2,4-Trimethylbenzene  
Concen: 1.883 ug/l  
RT: 13.251 min Scan# 1875  
Delta R.T. 0.128 min  
Lab File: VY011578.D  
Acq: 23 Nov 2022 16:21

Tgt Ion:105 Resp: 1507  
Ion Ratio Lower Upper  
105 100  
120 0.0 22.3 66.9#

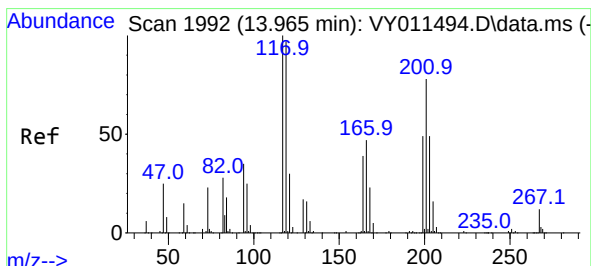
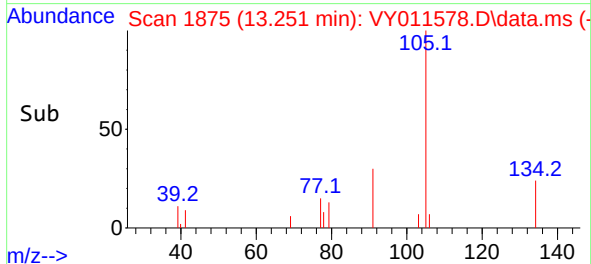
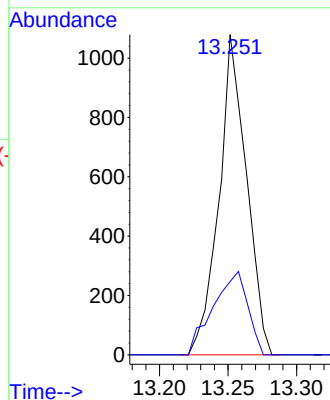
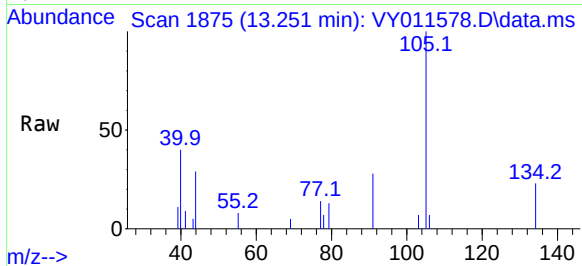




#85  
sec-Butylbenzene  
Concen: 1.431 ug/l  
RT: 13.251 min Scan# 11  
Delta R.T. -0.007 min  
Lab File: VY011578.D  
Acq: 23 Nov 2022 16:21

Instrument :  
MSVOA\_Y  
ClientSampleId :

Tgt Ion:105 Resp: 1507  
Ion Ratio Lower Upper  
105 100  
134 32.7 10.2 30.4#



#90  
Hexachloroethane  
Concen: 1.882 ug/l  
RT: 14.081 min Scan# 2011  
Delta R.T. 0.116 min  
Lab File: VY011578.D  
Acq: 23 Nov 2022 16:21

Tgt Ion:117 Resp: 334  
Ion Ratio Lower Upper  
117 100  
201 0.0 43.0 128.8#

