

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY060722\  
 Data File : VY009165.D  
 Acq On : 07 Jun 2022 15:41  
 Operator : KP/MD  
 Sample : N3189-03RE  
 Misc : 5.03g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 20220423-AMENDED-COMPOSITE-CRE

Quant Time: Jun 08 07:57:49 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y052022S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri May 20 23:50:52 2022  
 Response via : Initial Calibration

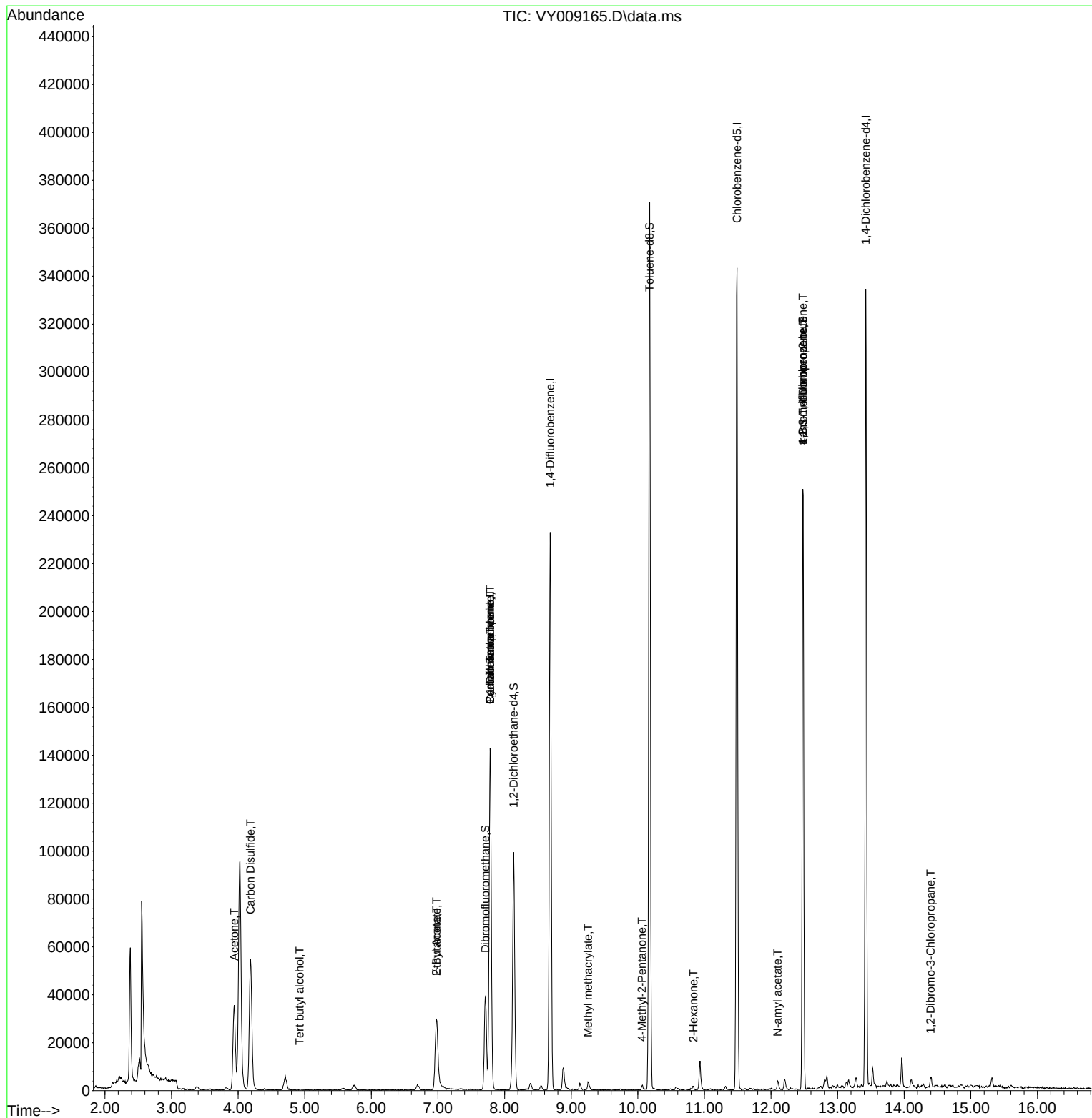
| Compound                      | R.T.   | QIon  | Response | Conc      | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|-----------|--------|----------|
| -----                         |        |       |          |           |        |          |
| Internal Standards            |        |       |          |           |        |          |
| 1) Pentafluorobenzene         | 7.783  | 168   | 108707   | 50.000    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.685  | 114   | 195184   | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.489 | 117   | 180137   | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.422 | 152   | 77069    | 50.000    | ug/l   | 0.00     |
| System Monitoring Compounds   |        |       |          |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.136  | 65    | 68005    | 60.784    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 50 - 163 | Recovery  | =      | 121.560% |
| 35) Dibromofluoromethane      | 7.710  | 113   | 26530    | 21.858    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 54 - 147 | Recovery  | =      | 43.720%# |
| 50) Toluene-d8                | 10.179 | 98    | 240797   | 53.778    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 49 - 140 | Recovery  | =      | 107.560% |
| 62) 4-Bromofluorobenzene      | 12.477 | 95    | 67673    | 37.466    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 25 - 144 | Recovery  | =      | 74.940%  |
| Target Compounds              |        |       |          |           |        |          |
|                               |        |       |          |           |        | Qvalue   |
| 11) Tert butyl alcohol        | 4.924  | 59    | 180      | 1.586     | ug/l # | 77       |
| 16) Acetone                   | 3.942  | 43    | 58165    | 249.759   | ug/l   | 91       |
| 17) Carbon Disulfide          | 4.186  | 76    | 108464   | 32.470    | ug/l   | 99       |
| 20) Methylene Chloride        | 4.704  | 84    | 3903     | Below Cal | #      | 74       |
| 25) 2-Butanone                | 6.978  | 43    | 15703    | 37.751    | ug/l # | 87       |
| 31) Cyclohexane               | 7.783  | 56    | 2894     | 1.322     | ug/l # | 38       |
| 36) 1,1-Dichloropropene       | 7.783  | 75    | 9361     | 4.532     | ug/l # | 51       |
| 37) Ethyl Acetate             | 6.978  | 43    | 15703    | 14.656    | ug/l # | 85       |
| 38) Carbon Tetrachloride      | 7.783  | 117   | 10586    | 4.899     | ug/l # | 16       |
| 48) Methyl methacrylate       | 9.252  | 41    | 948      | 1.066     | ug/l # | 48       |
| 51) 4-Methyl-2-Pentanone      | 10.063 | 43    | 1267     | 1.149     | ug/l # | 83       |
| 59) 2-Hexanone                | 10.837 | 43    | 1323     | 1.753     | ug/l   | 86       |
| 74) N-amyl acetate            | 12.099 | 43    | 2295     | 1.726     | ug/l # | 56       |
| 76) 1,2,3-Trichloropropane    | 12.477 | 75    | 40116    | 48.471    | ug/l # | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.477 | 75    | 40116    | 99.487    | ug/l # | 7        |
| 92) 1,2-Dibromo-3-Chloropr... | 14.397 | 75    | 1099     | 5.963     | ug/l # | 6        |
| -----                         |        |       |          |           |        |          |

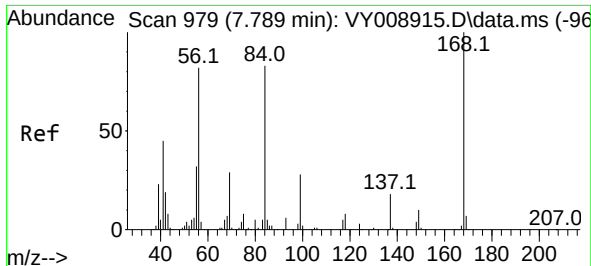
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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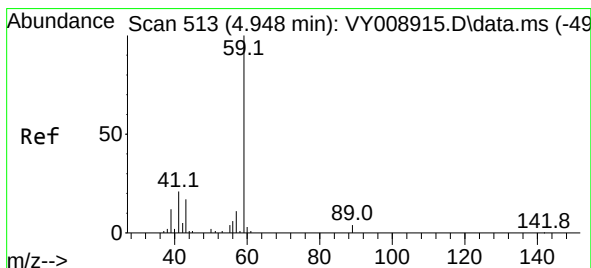
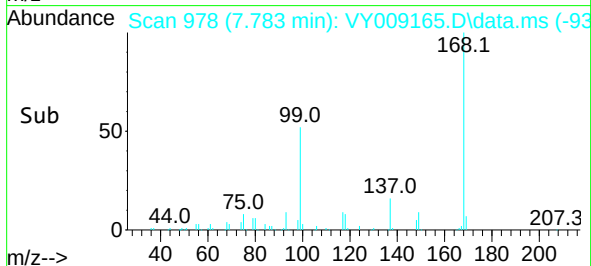
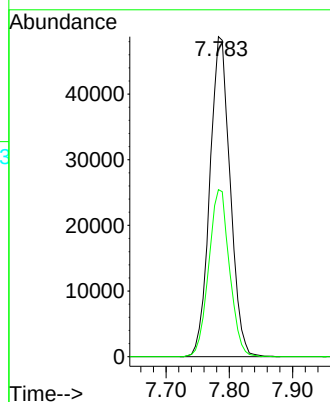
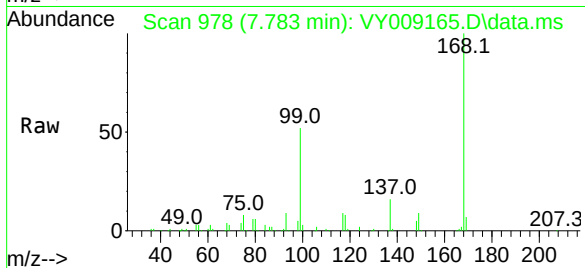




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.783 min Scan# 91  
Delta R.T. -0.006 min  
Lab File: VY009165.D  
Acq: 07 Jun 2022 15:41

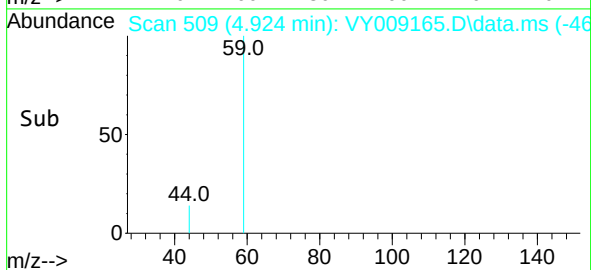
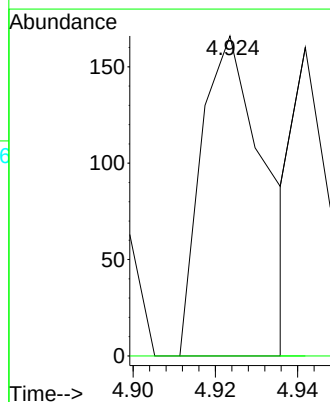
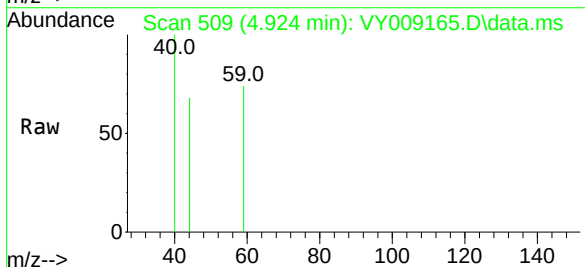
Instrument :  
MSVOA\_Y  
ClientSampleId :  
20220423-AMENDED-COMPOSITE-CRE

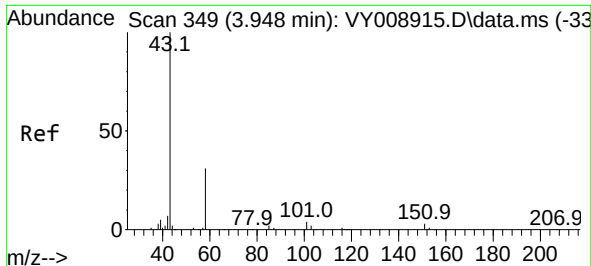
Tgt Ion:168 Resp: 108707  
Ion Ratio Lower Upper  
168 100  
99 52.2 46.9 70.3



#11  
Tert butyl alcohol  
Concen: 1.586 ug/l  
RT: 4.924 min Scan# 509  
Delta R.T. -0.024 min  
Lab File: VY009165.D  
Acq: 07 Jun 2022 15:41

Tgt Ion: 59 Resp: 180  
Ion Ratio Lower Upper  
59 100  
57 0.0 6.4 9.6#

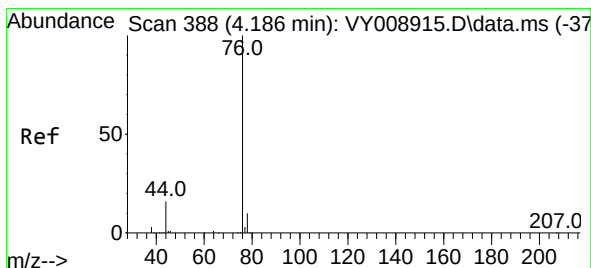
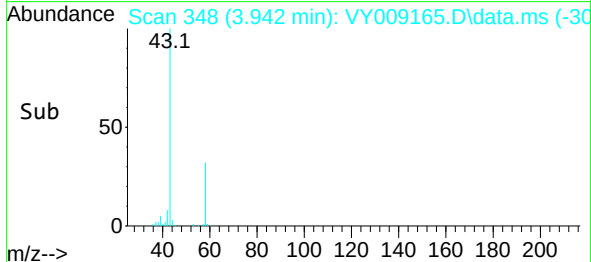
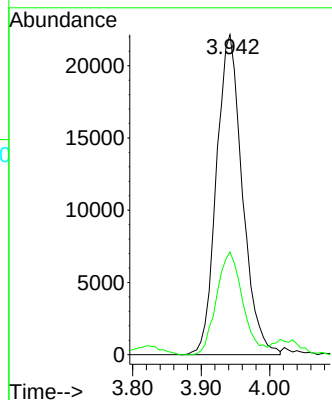
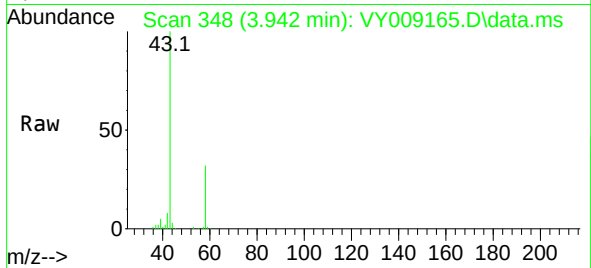




#16  
Acetone  
Concen: 249.759 ug/l  
RT: 3.942 min Scan# 349  
Delta R.T. -0.006 min  
Lab File: VY009165.D  
Acq: 07 Jun 2022 15:41

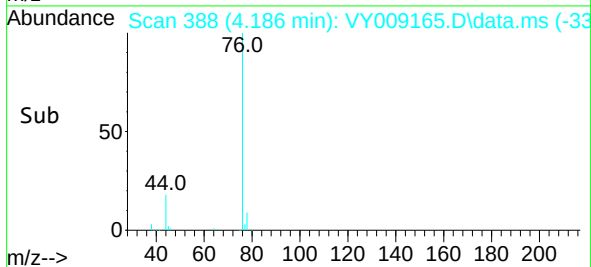
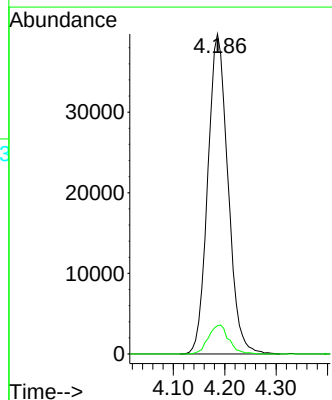
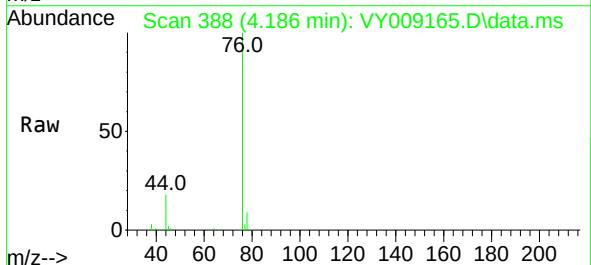
Instrument : MSVOA\_Y  
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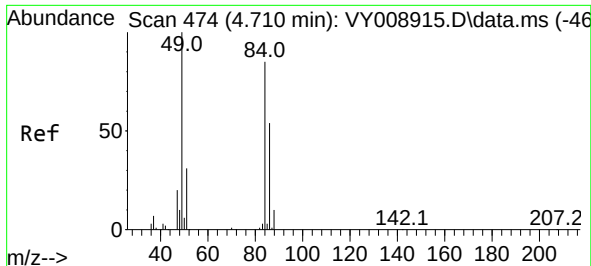
Tgt Ion: 43 Resp: 58165  
Ion Ratio Lower Upper  
43 100  
58 32.1 22.0 33.0



#17  
Carbon Disulfide  
Concen: 32.470 ug/l  
RT: 4.186 min Scan# 388  
Delta R.T. -0.000 min  
Lab File: VY009165.D  
Acq: 07 Jun 2022 15:41

Tgt Ion: 76 Resp: 108464  
Ion Ratio Lower Upper  
76 100  
78 8.9 7.4 11.0

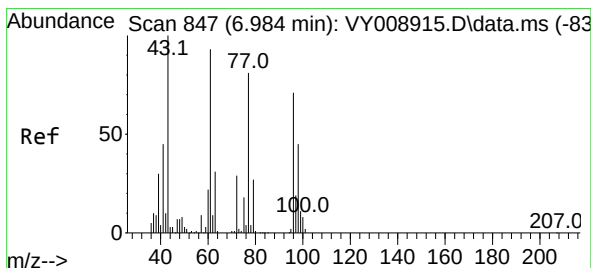
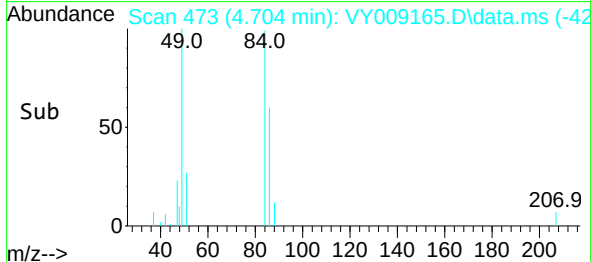
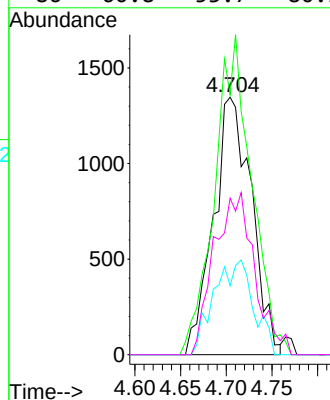
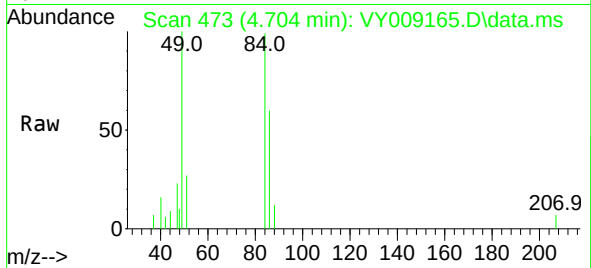




#20  
Methylene Chloride  
Concen: Below Cal  
RT: 4.704 min Scan# 41  
Delta R.T. -0.006 min  
Lab File: VY009165.D  
Acq: 07 Jun 2022 15:41

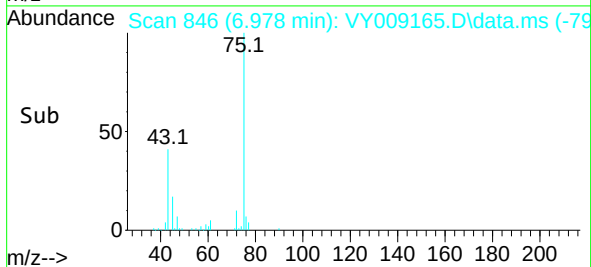
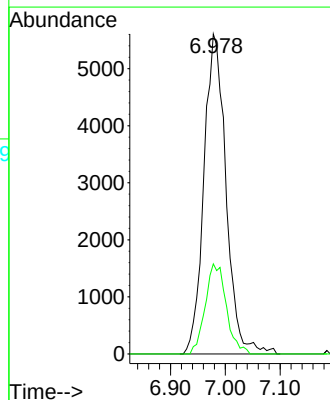
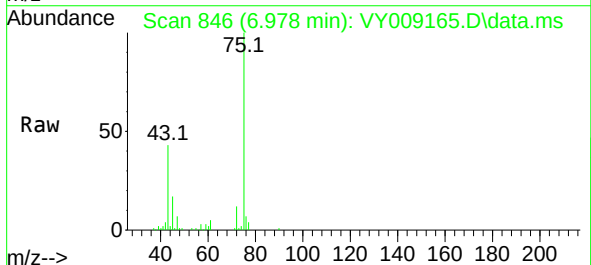
Instrument :  
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20220423-AMENDED-COMPOSITE-CRE

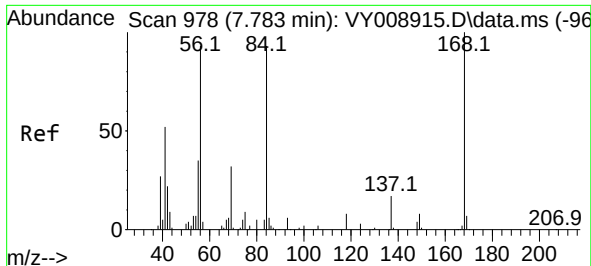
Tgt Ion: 84 Resp: 3903  
Ion Ratio Lower Upper  
84 100  
49 100.9 114.4 171.6#  
51 26.8 35.3 52.9#  
86 60.8 53.7 80.5



#25  
2-Butanone  
Concen: 37.751 ug/l  
RT: 6.978 min Scan# 846  
Delta R.T. -0.006 min  
Lab File: VY009165.D  
Acq: 07 Jun 2022 15:41

Tgt Ion: 43 Resp: 15703  
Ion Ratio Lower Upper  
43 100  
72 28.2 17.7 26.5#

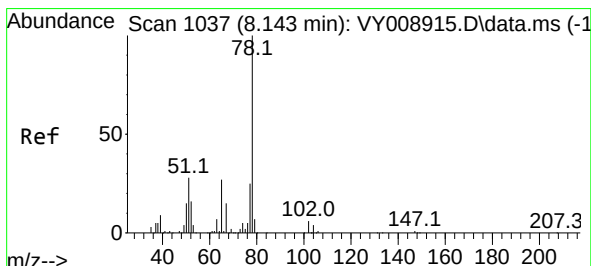
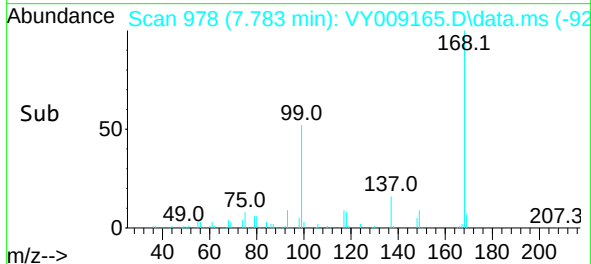
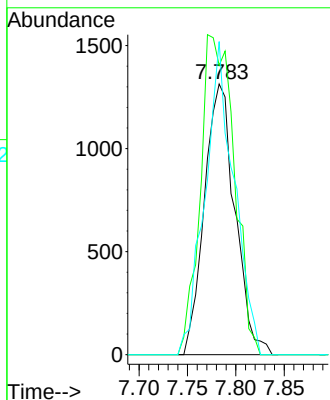
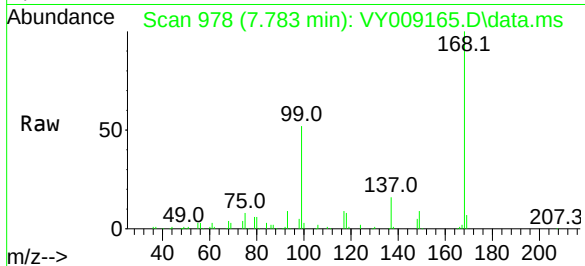




#31  
Cyclohexane  
Concen: 1.322 ug/l  
RT: 7.783 min Scan# 91  
Delta R.T. -0.000 min  
Lab File: VY009165.D  
Acq: 07 Jun 2022 15:41

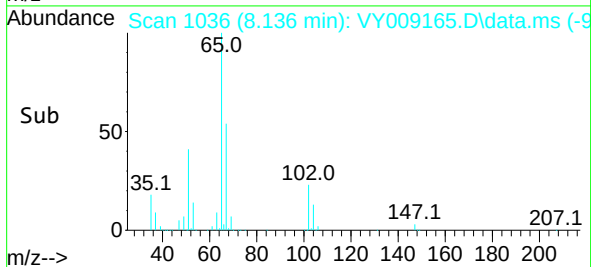
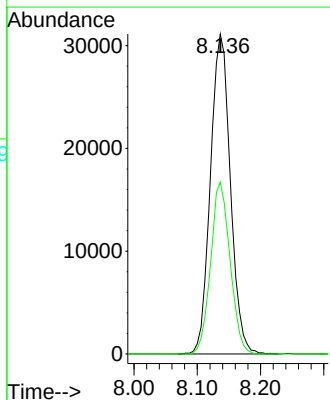
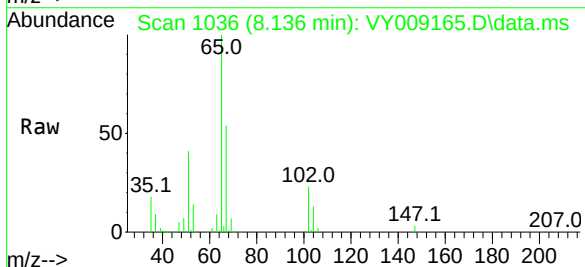
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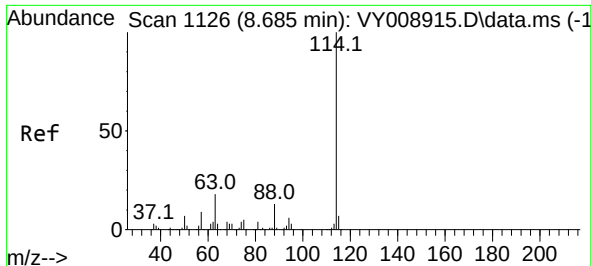
Tgt Ion: 56 Resp: 2894  
Ion Ratio Lower Upper  
56 100  
69 106.8 26.7 40.1#  
84 115.7 67.2 100.8#



#33  
1,2-Dichloroethane-d4  
Concen: 60.784 ug/l  
RT: 8.136 min Scan# 1036  
Delta R.T. -0.007 min  
Lab File: VY009165.D  
Acq: 07 Jun 2022 15:41

Tgt Ion: 65 Resp: 68005  
Ion Ratio Lower Upper  
65 100  
67 52.2 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: VY009165.D

Acq: 07 Jun 2022 15:41

Instrument :

MSVOA\_Y

ClientSampleId :

20220423-AMENDED-COMPOSITE-CRE

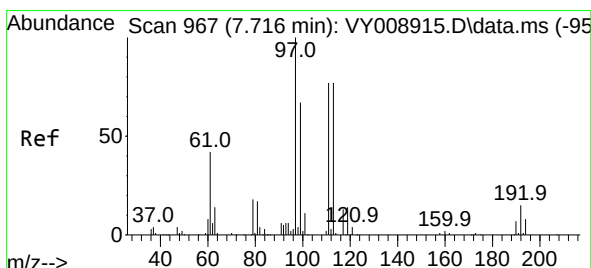
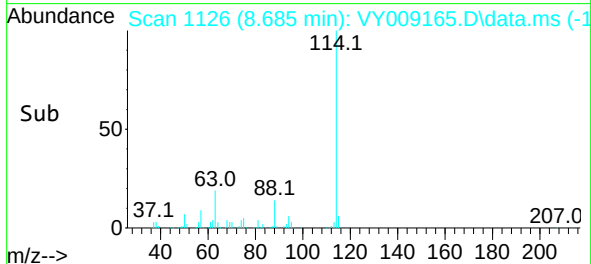
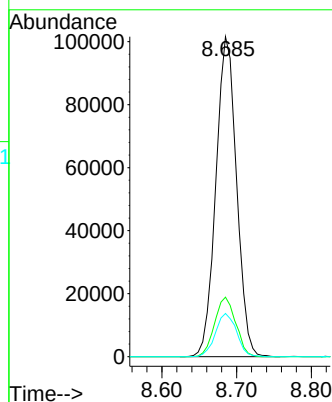
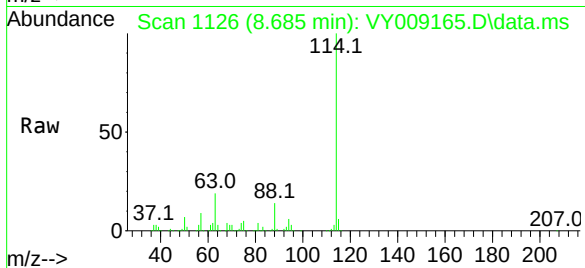
Tgt Ion:114 Resp: 195184

Ion Ratio Lower Upper

114 100

63 18.6 0.0 43.2

88 13.5 0.0 31.8



#35

Dibromofluoromethane

Concen: 21.858 ug/l

RT: 7.710 min Scan# 966

Delta R.T. -0.006 min

Lab File: VY009165.D

Acq: 07 Jun 2022 15:41

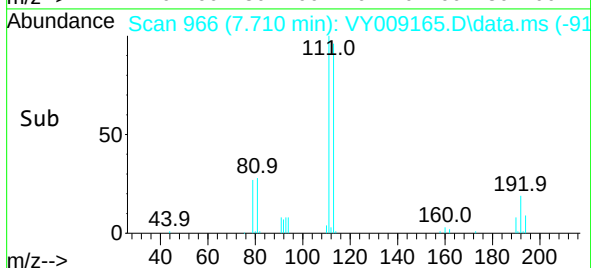
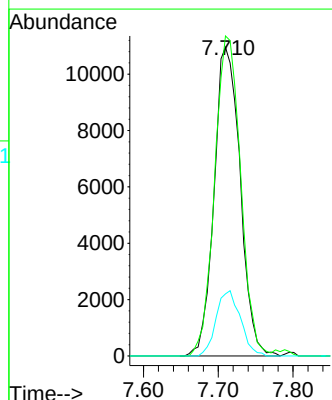
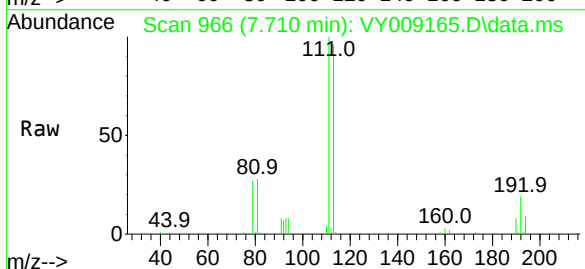
Tgt Ion:113 Resp: 26530

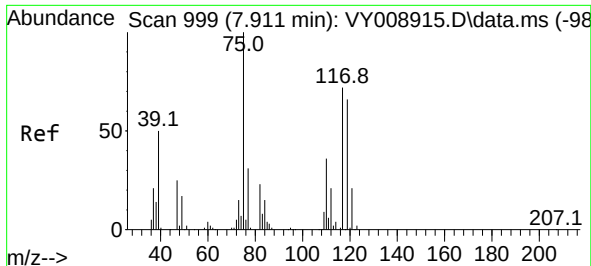
Ion Ratio Lower Upper

113 100

111 103.4 82.6 124.0

192 19.7 17.6 26.4

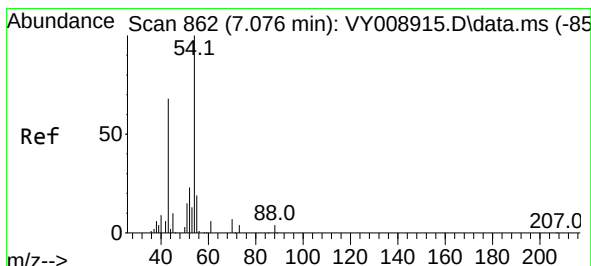
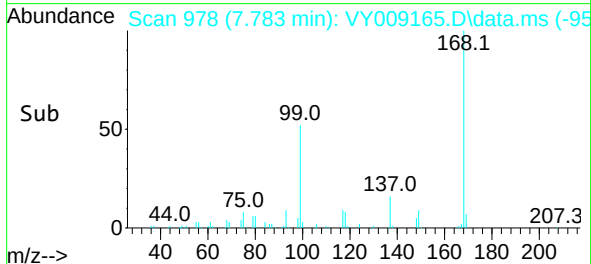
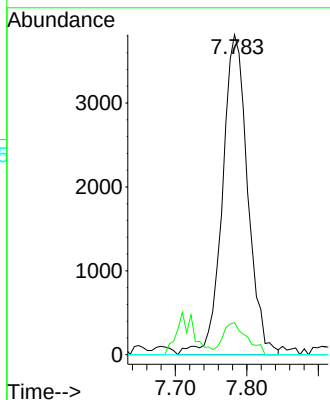
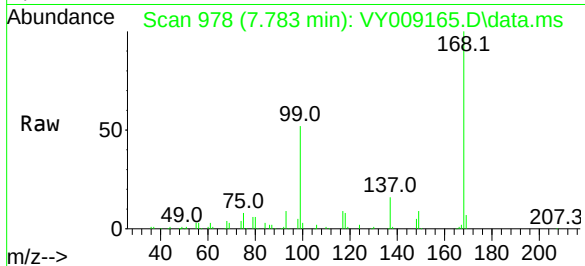




#36  
1,1-Dichloropropene  
Concen: 4.532 ug/l  
RT: 7.783 min Scan# 91  
Delta R.T. -0.128 min  
Lab File: VY009165.D  
Acq: 07 Jun 2022 15:41

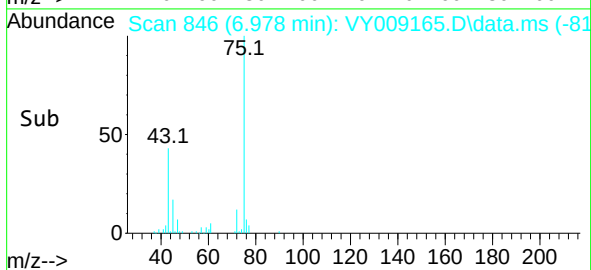
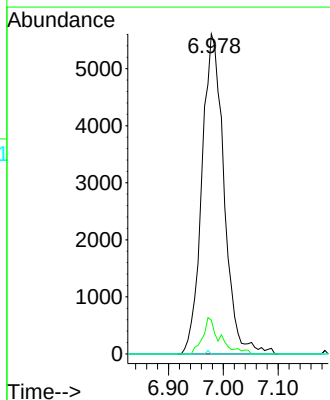
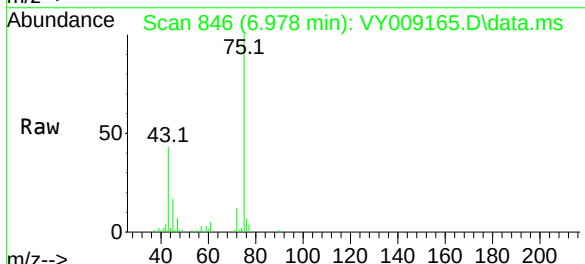
Instrument :  
MSVOA\_Y  
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Tgt Ion: 75 Resp: 9361  
Ion Ratio Lower Upper  
75 100  
110 9.5 17.1 51.2#  
77 0.0 24.4 36.6#

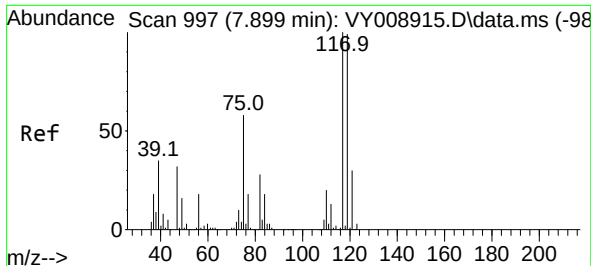


#37  
Ethyl Acetate  
Concen: 14.656 ug/l  
RT: 6.978 min Scan# 846  
Delta R.T. -0.098 min  
Lab File: VY009165.D  
Acq: 07 Jun 2022 15:41

Tgt Ion: 43 Resp: 15703  
Ion Ratio Lower Upper  
43 100  
61 8.9 9.7 14.5#  
70 0.1 7.1 10.7#



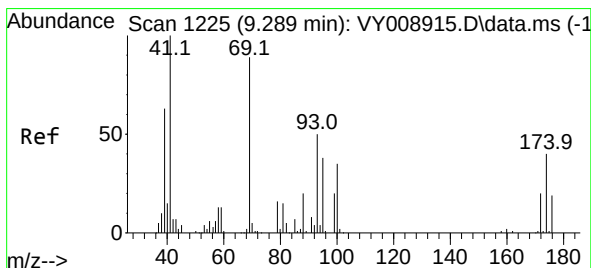
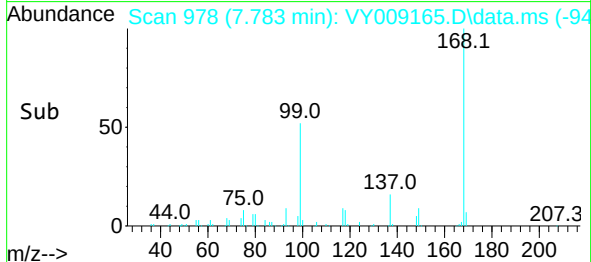
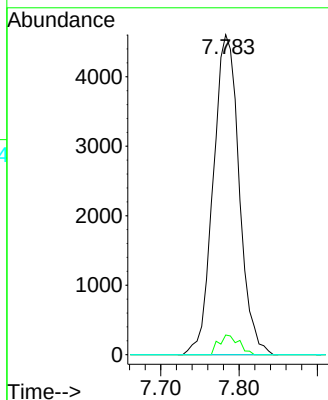
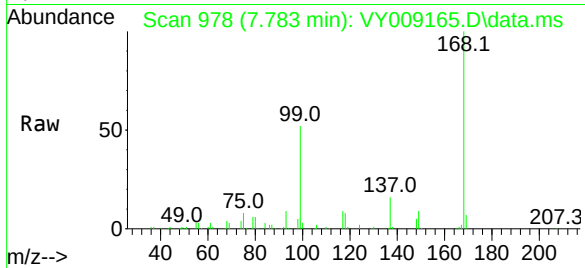




#38  
Carbon Tetrachloride  
Concen: 4.899 ug/l  
RT: 7.783 min Scan# 91  
Delta R.T. -0.116 min  
Lab File: VY009165.D  
Acq: 07 Jun 2022 15:41

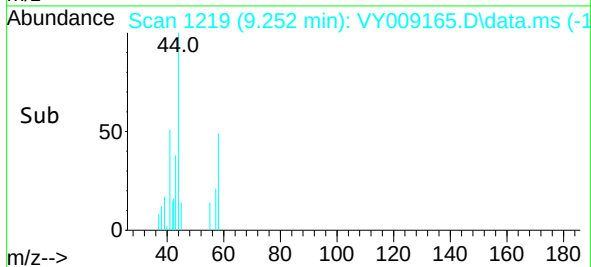
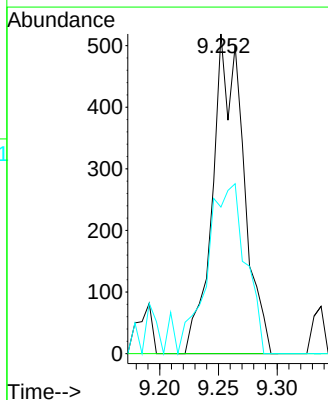
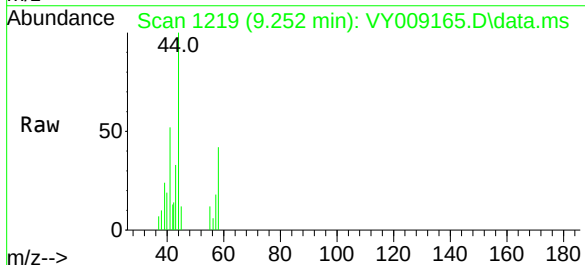
Instrument :  
MSVOA\_Y  
ClientSampleId :  
20220423-AMENDED-COMPOSITE-CRE

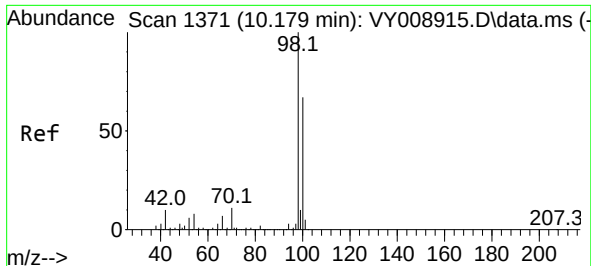
Tgt Ion:117 Resp: 10586  
Ion Ratio Lower Upper  
117 100  
119 6.1 77.9 116.9#  
121 0.0 24.8 37.2#



#48  
Methyl methacrylate  
Concen: 1.066 ug/l  
RT: 9.252 min Scan# 1219  
Delta R.T. -0.037 min  
Lab File: VY009165.D  
Acq: 07 Jun 2022 15:41

Tgt Ion: 41 Resp: 948  
Ion Ratio Lower Upper  
41 100  
69 0.0 58.2 87.2#  
39 66.1 47.4 71.0

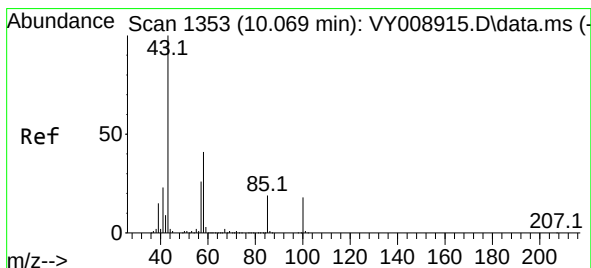
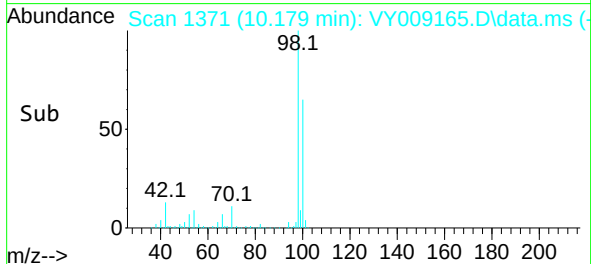
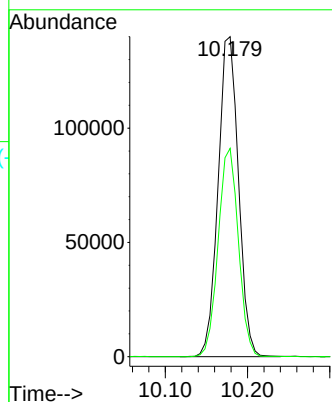
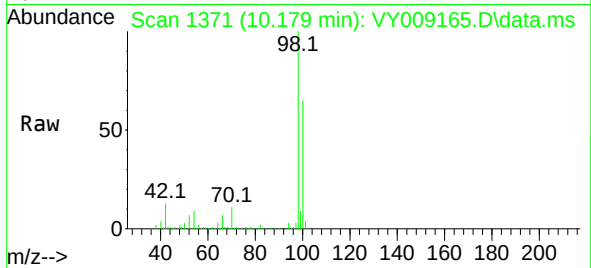




#50  
Toluene-d8  
Concen: 53.778 ug/l  
RT: 10.179 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VY009165.D  
Acq: 07 Jun 2022 15:41

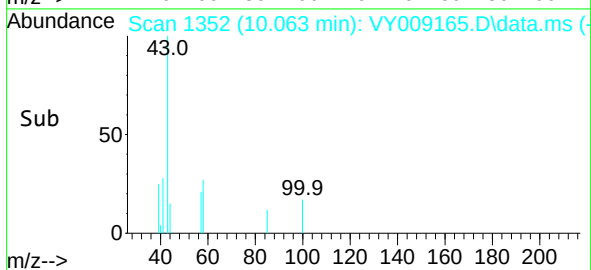
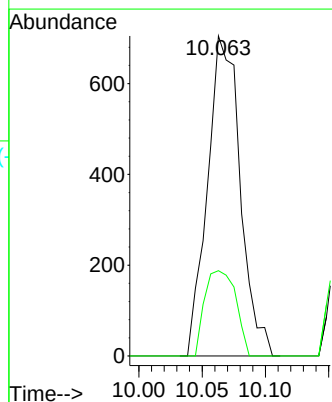
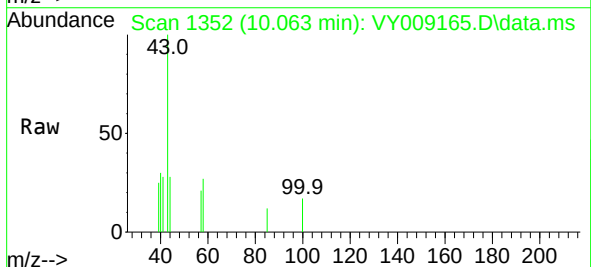
Instrument : MSVOA\_Y  
ClientSampleId : 20220423-AMENDED-COMPOSITE-CRE

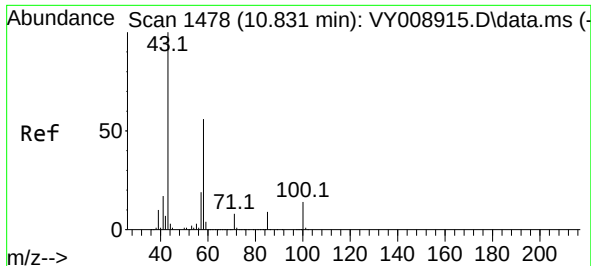
Tgt Ion: 98 Resp: 240797  
Ion Ratio Lower Upper  
98 100  
100 64.8 50.2 75.2



#51  
4-Methyl-2-Pentanone  
Concen: 1.149 ug/l  
RT: 10.063 min Scan# 1352  
Delta R.T. -0.006 min  
Lab File: VY009165.D  
Acq: 07 Jun 2022 15:41

Tgt Ion: 43 Resp: 1267  
Ion Ratio Lower Upper  
43 100  
58 25.4 28.1 42.1#

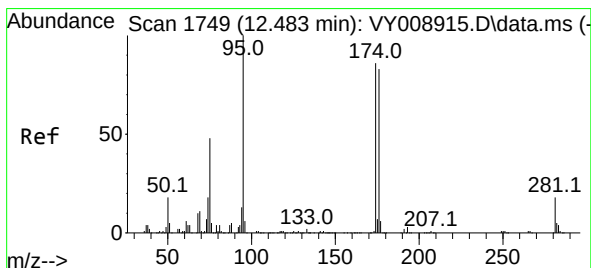
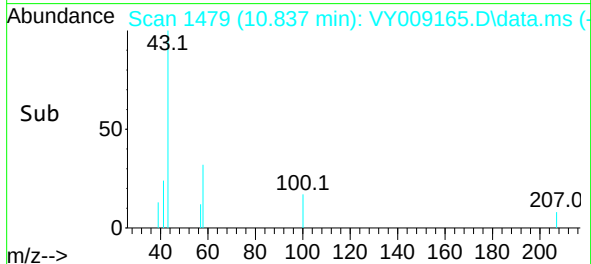
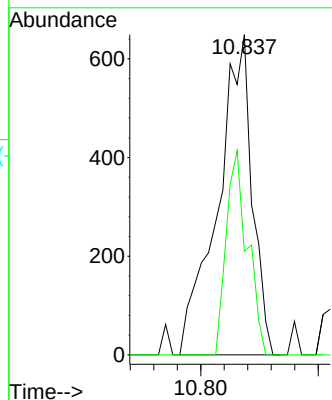
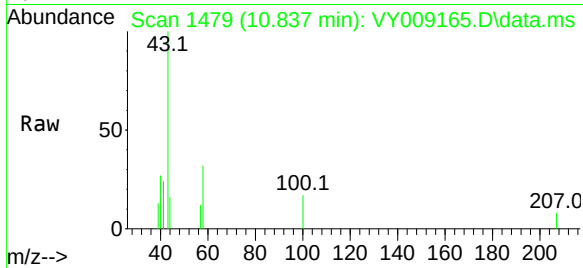




#59  
2-Hexanone  
Concen: 1.753 ug/l  
RT: 10.837 min Scan# 1478  
Delta R.T. 0.006 min  
Lab File: VY009165.D  
Acq: 07 Jun 2022 15:41

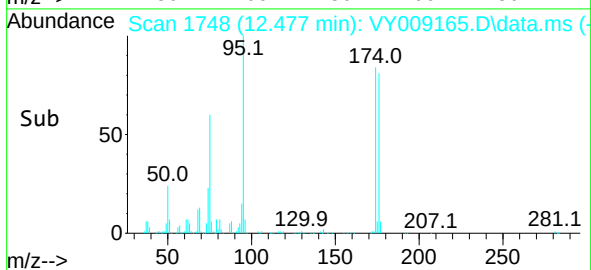
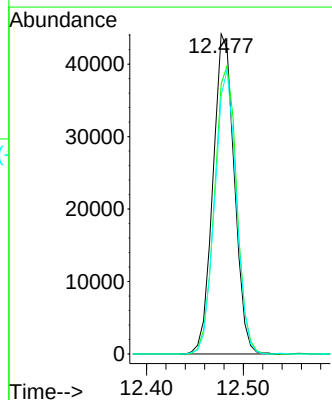
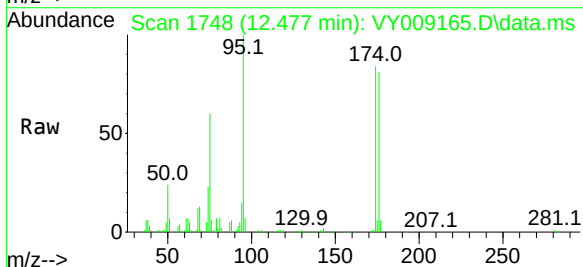
Instrument : MSVOA\_Y  
ClientSampleId : 20220423-AMENDED-COMPOSITE-CRE

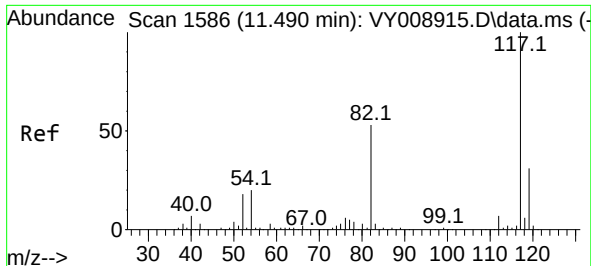
Tgt Ion: 43 Resp: 1323  
Ion Ratio Lower Upper  
43 100  
58 39.3 24.4 73.4



#62  
4-Bromofluorobenzene  
Concen: 37.466 ug/l  
RT: 12.477 min Scan# 1748  
Delta R.T. -0.006 min  
Lab File: VY009165.D  
Acq: 07 Jun 2022 15:41

Tgt Ion: 95 Resp: 67673  
Ion Ratio Lower Upper  
95 100  
174 93.1 0.0 177.0  
176 88.8 0.0 175.8

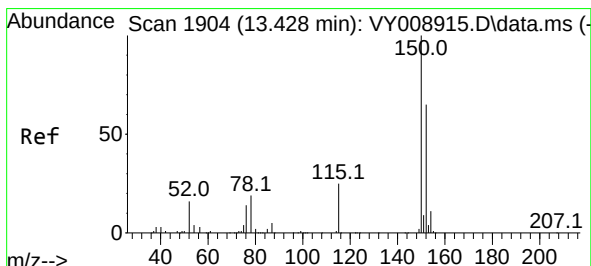
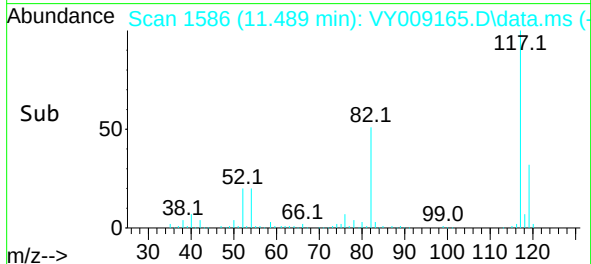
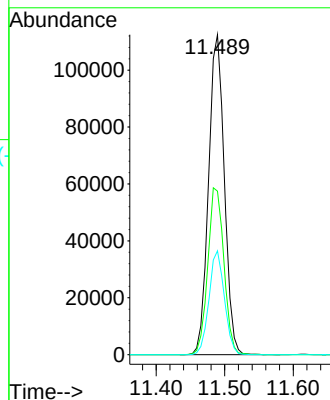
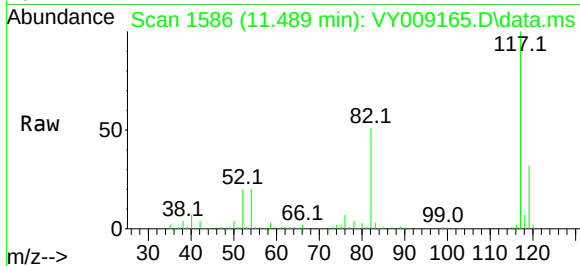




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.489 min Scan# 117  
Delta R.T. -0.001 min  
Lab File: VY009165.D  
Acq: 07 Jun 2022 15:41

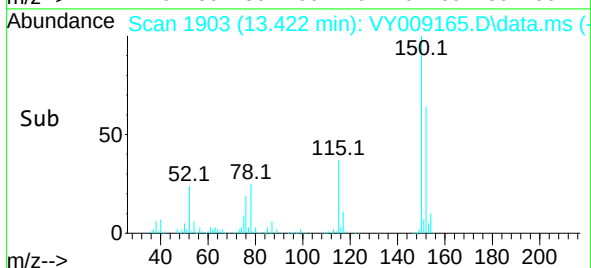
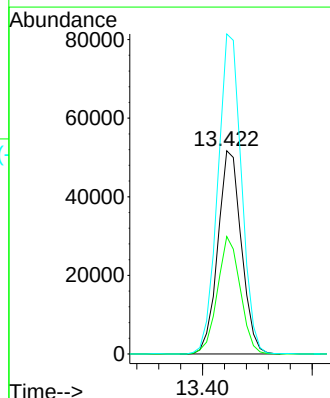
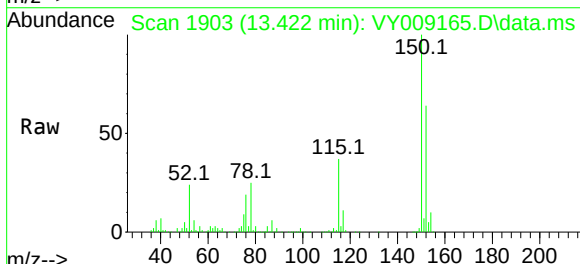
Instrument :  
MSVOA\_Y  
ClientSampleId :  
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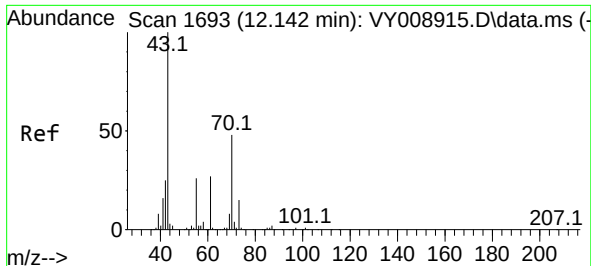
Tgt Ion:117 Resp: 180137  
Ion Ratio Lower Upper  
117 100  
82 51.1 43.0 64.4  
119 32.4 25.4 38.0



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.422 min Scan# 1903  
Delta R.T. -0.006 min  
Lab File: VY009165.D  
Acq: 07 Jun 2022 15:41

Tgt Ion:152 Resp: 77069  
Ion Ratio Lower Upper  
152 100  
115 55.9 28.2 84.7  
150 158.7 0.0 347.6

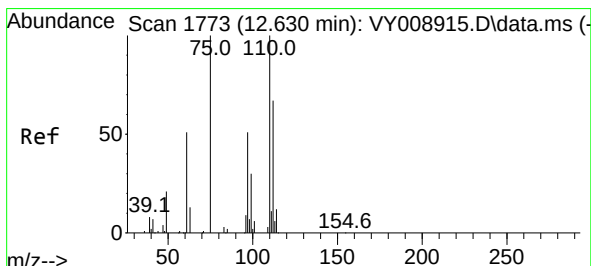
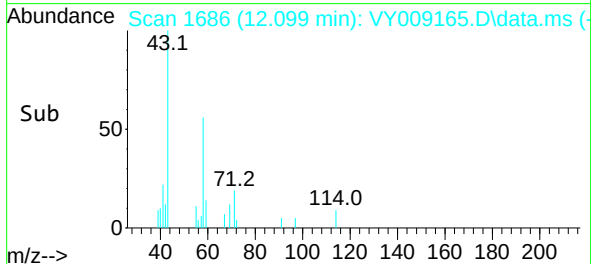
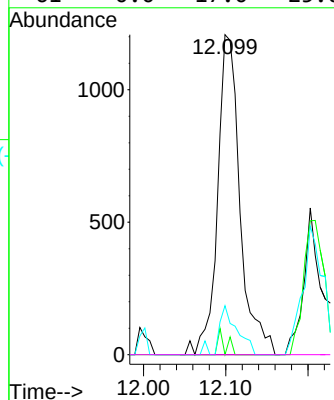
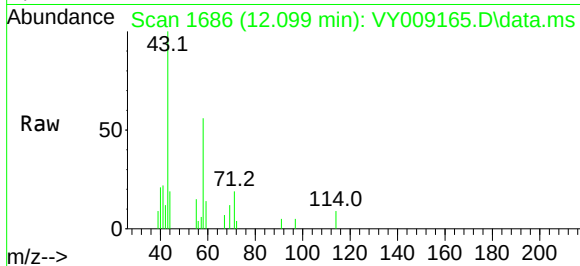




#74  
N-amy1 acetate  
Concen: 1.726 ug/l  
RT: 12.099 min Scan# 1748  
Delta R.T. -0.043 min  
Lab File: VY009165.D  
Acq: 07 Jun 2022 15:41

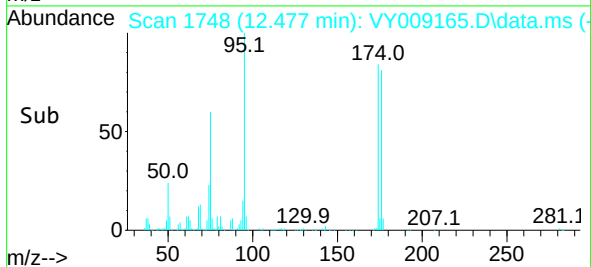
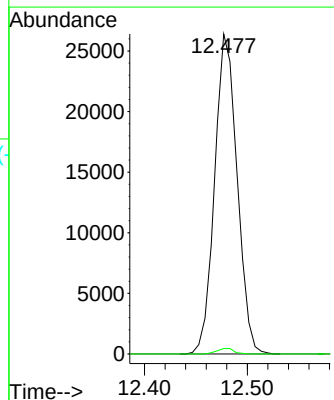
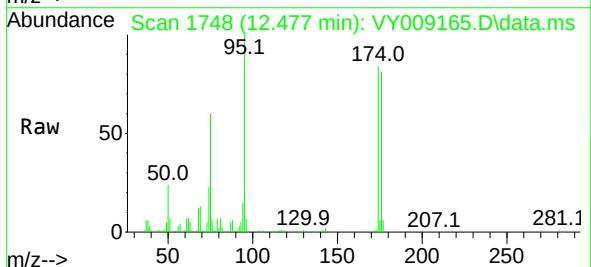
Instrument :  
MSVOA\_Y  
ClientSampleId :  
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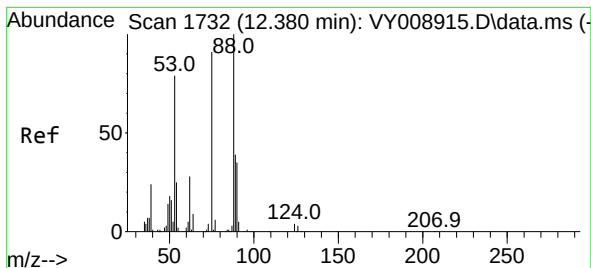
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 2295  |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 70       | 2.7   | 28.7  | 43.1# |
| 55       | 11.5  | 17.3  | 25.9# |
| 61       | 0.0   | 17.0  | 25.6# |



#76  
1,2,3-Trichloropropane  
Concen: 48.471 ug/l  
RT: 12.477 min Scan# 1748  
Delta R.T. -0.153 min  
Lab File: VY009165.D  
Acq: 07 Jun 2022 15:41

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 75    | Resp: | 40116 |
| Ion      | Ratio | Lower | Upper |
| 75       | 100   |       |       |
| 77       | 1.3   | 0.0   | 0.0#  |

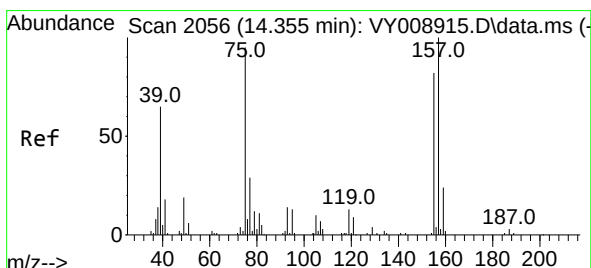
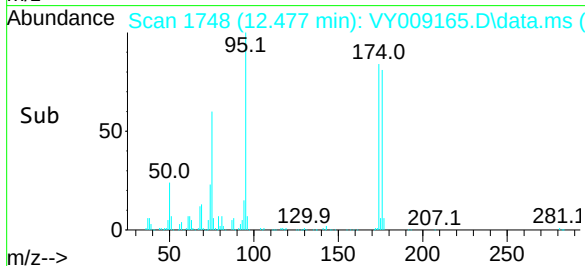
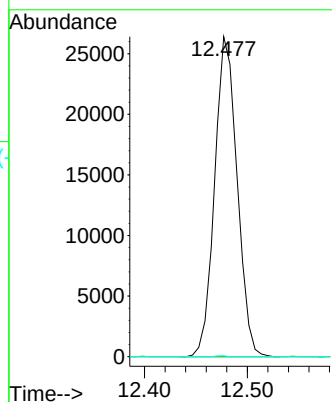
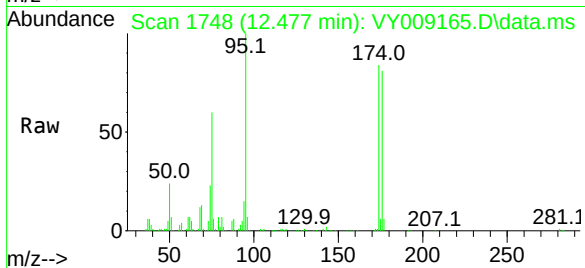




#81  
trans-1,4-Dichloro-2-butene  
Concen: 99.487 ug/l  
RT: 12.477 min Scan# 11  
Delta R.T. 0.097 min  
Lab File: VY009165.D  
Acq: 07 Jun 2022 15:41

Instrument :  
MSVOA\_Y  
ClientSampleId :  
20220423-AMENDED-COMPOSITE-CRE

Tgt Ion: 75 Resp: 40116  
Ion Ratio Lower Upper  
75 100  
53 0.0 85.3 127.9#  
89 0.1 37.0 55.4#



#92  
1,2-Dibromo-3-Chloropropane  
Concen: 5.963 ug/l  
RT: 14.397 min Scan# 2063  
Delta R.T. 0.042 min  
Lab File: VY009165.D  
Acq: 07 Jun 2022 15:41

Tgt Ion: 75 Resp: 1099  
Ion Ratio Lower Upper  
75 100  
155 0.0 38.0 113.9#  
157 0.0 47.8 143.3#

