

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY121522\  
 Data File : VY011866.D  
 Acq On : 15 Dec 2022 13:06  
 Operator : KP/MD  
 Sample : N6038-13  
 Misc : 5.56g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 RB-35-(5-7)

Quant Time: Dec 16 00:13:55 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y120922S.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Dec 10 04:19:59 2022  
 Response via : Initial Calibration

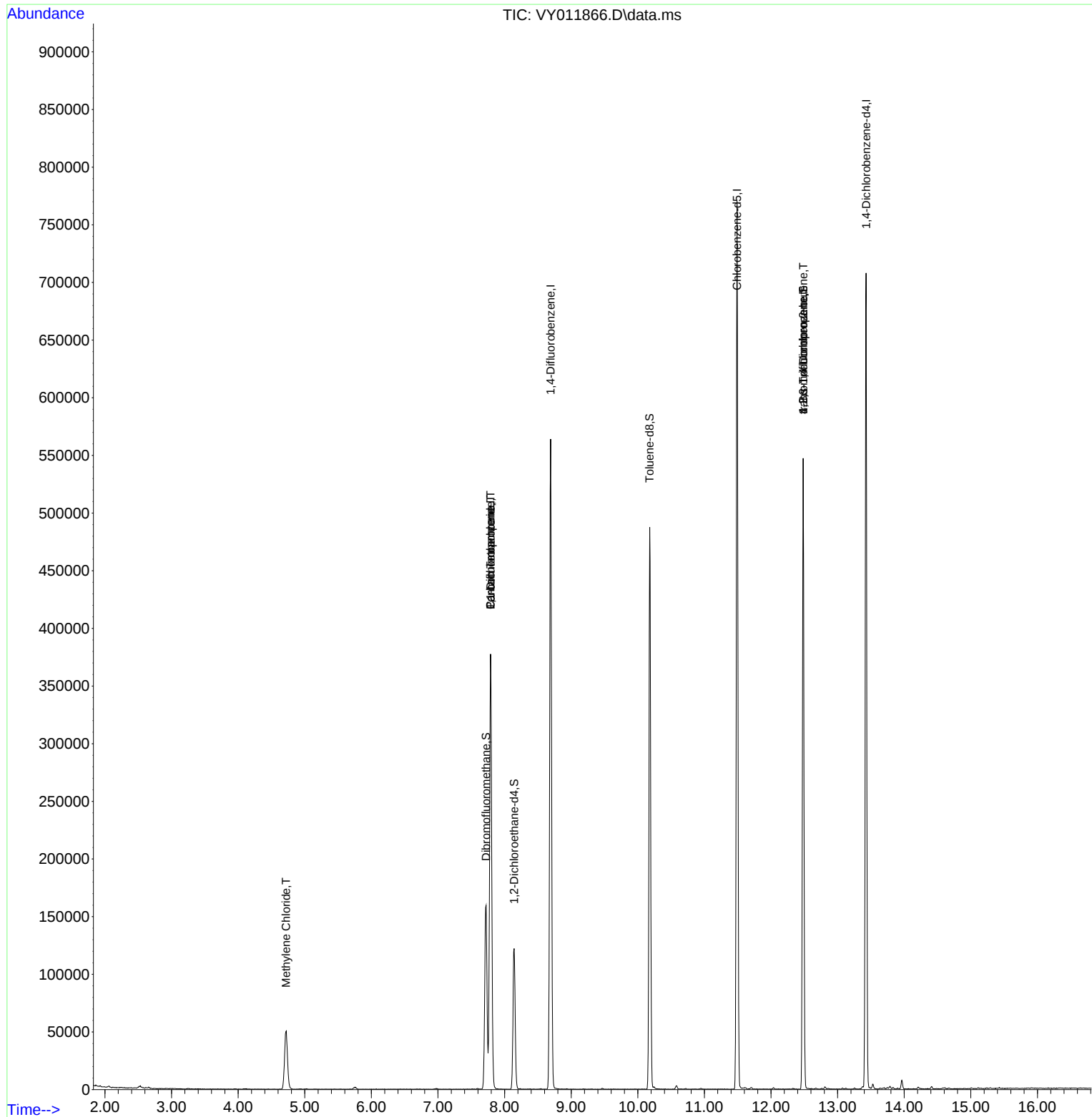
| Compound                      | R.T.   | QIon  | Response | Conc      | Units      | Dev(Min) |
|-------------------------------|--------|-------|----------|-----------|------------|----------|
| -----                         |        |       |          |           |            |          |
| Internal Standards            |        |       |          |           |            |          |
| 1) Pentafluorobenzene         | 7.789  | 168   | 288682   | 50.000    | ug/l       | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.691  | 114   | 475720   | 50.000    | ug/l       | 0.00     |
| 63) Chlorobenzene-d5          | 11.490 | 117   | 414342   | 50.000    | ug/l       | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.428 | 152   | 184470   | 50.000    | ug/l       | 0.00     |
| System Monitoring Compounds   |        |       |          |           |            |          |
| 33) 1,2-Dichloroethane-d4     | 8.143  | 65    | 100417   | 51.079    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 50 - 163 | Recovery  | = 102.160% |          |
| 35) Dibromofluoromethane      | 7.722  | 113   | 114706   | 54.631    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 54 - 147 | Recovery  | = 109.260% |          |
| 50) Toluene-d8                | 10.179 | 98    | 323313   | 46.145    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 49 - 140 | Recovery  | = 92.280%  |          |
| 62) 4-Bromofluorobenzene      | 12.483 | 95    | 156077   | 57.251    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 25 - 144 | Recovery  | = 114.500% |          |
| Target Compounds              |        |       |          |           |            |          |
|                               |        |       |          |           | Qvalue     |          |
| 2) Dichlorodifluoromethane    | 1.906  | 85    | 22       | Below Cal | #          | 41       |
| 3) Chloromethane              | 2.119  | 50    | 181      | Below Cal | #          | 41       |
| 4) Vinyl Chloride             | 2.485  | 62    | 59       | Below Cal | #          | 43       |
| 5) Bromomethane               | 2.656  | 94    | 335      | Below Cal | #          | 71       |
| 11) Tert butyl alcohol        | 4.942  | 59    | 110      | Below Cal | #          | 74       |
| 18) Methyl Acetate            | 4.710  | 43    | 112      | Below Cal | #          | 50       |
| 20) Methylene Chloride        | 4.716  | 84    | 39511    | 9.299     | ug/l       | 96       |
| 31) Cyclohexane               | 7.789  | 56    | 5477     | Below Cal | #          | 2        |
| 36) 1,1-Dichloropropene       | 7.789  | 75    | 21770    | 6.031     | ug/l #     | 50       |
| 38) Carbon Tetrachloride      | 7.789  | 117   | 29421    | 6.938     | ug/l #     | 16       |
| 76) 1,2,3-Trichloropropane    | 12.483 | 75    | 82591    | 44.253    | ug/l #     | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.483 | 75    | 82591    | 100.418   | ug/l #     | 13       |
| -----                         |        |       |          |           |            |          |

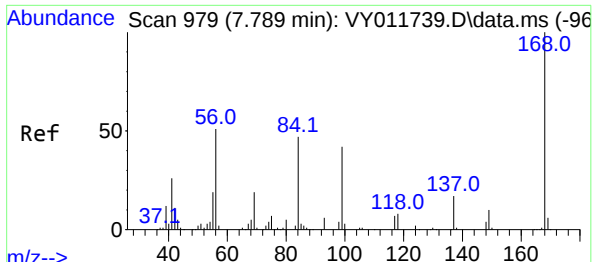
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY121522\  
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ALS Vial : 8 Sample Multiplier: 1

Instrument :  
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ClientSampleId :  
RB-35-(5-7)

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QLast Update : Sat Dec 10 04:19:59 2022  
Response via : Initial Calibration

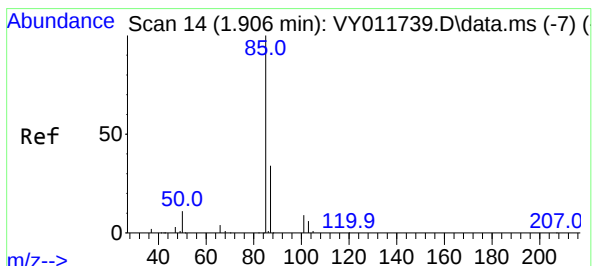
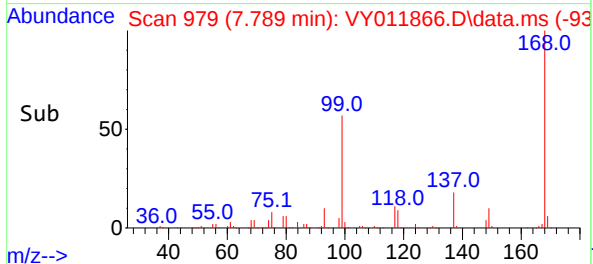
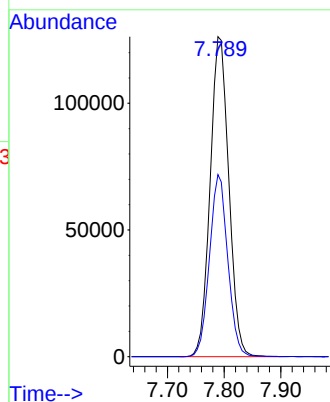
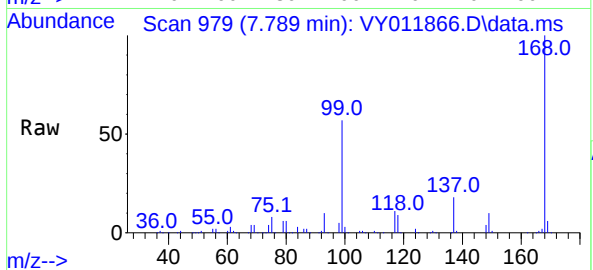




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.789 min Scan# 91  
Delta R.T. -0.000 min  
Lab File: VY011866.D  
Acq: 15 Dec 2022 13:06

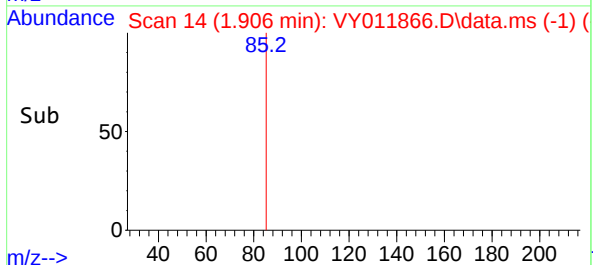
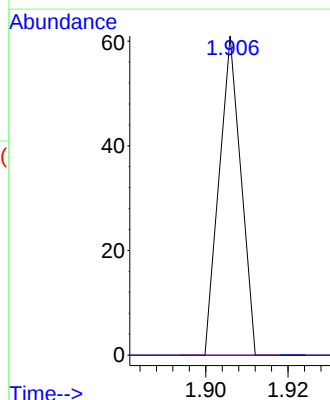
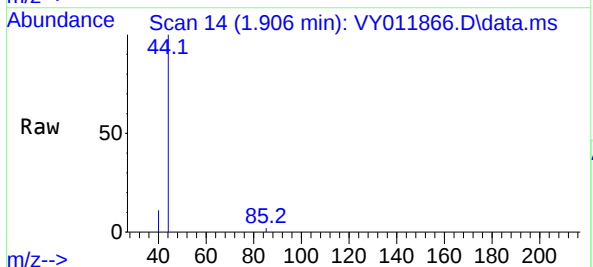
Instrument :  
MSVOA\_Y  
ClientSampleId :  
RB-35-(5-7)

Tgt Ion:168 Resp: 288682  
Ion Ratio Lower Upper  
168 100  
99 56.9 44.0 66.0

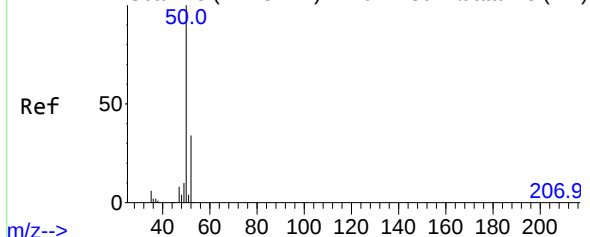


#2  
Dichlorodifluoromethane  
Concen: Below Cal  
RT: 1.906 min Scan# 14  
Delta R.T. -0.000 min  
Lab File: VY011866.D  
Acq: 15 Dec 2022 13:06

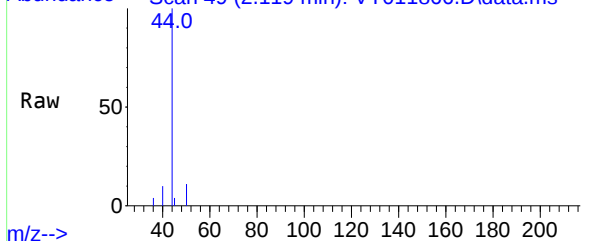
Tgt Ion: 85 Resp: 22  
Ion Ratio Lower Upper  
85 100  
87 0.0 16.8 50.4#



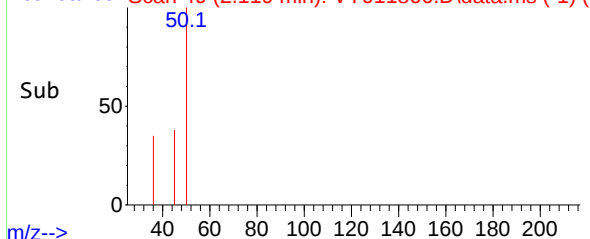
Abundance Scan 48 (2.113 min): VY011739.D\data.ms (-42)



Abundance Scan 49 (2.119 min): VY011866.D\data.ms



Abundance Scan 49 (2.119 min): VY011866.D\data.ms (-1)



#3

Chloromethane

Concen: Below Cal

RT: 2.119 min Scan# 49

Delta R.T. 0.006 min

Lab File: VY011866.D

Acq: 15 Dec 2022 13:06

Instrument :

MSVOA\_Y

ClientSampleId :

RB-35-(5-7)

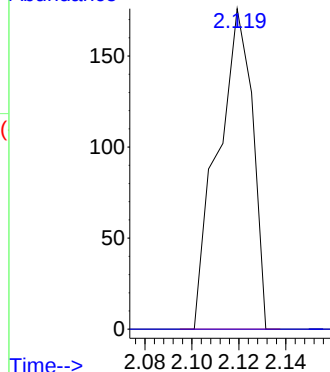
Tgt Ion: 50 Resp: 181

Ion Ratio Lower Upper

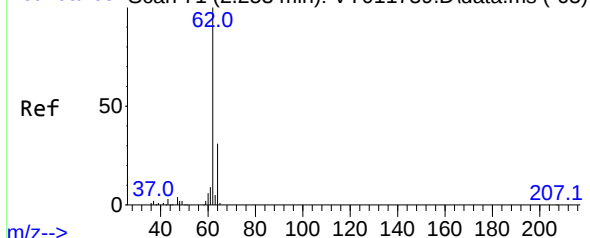
50 100

52 0.0 26.8 40.2#

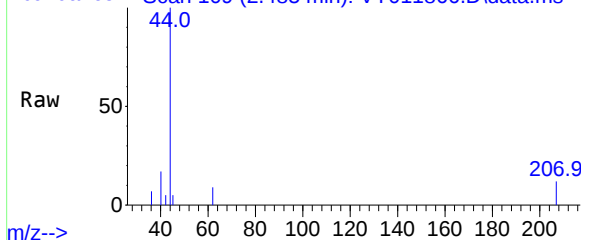
Abundance



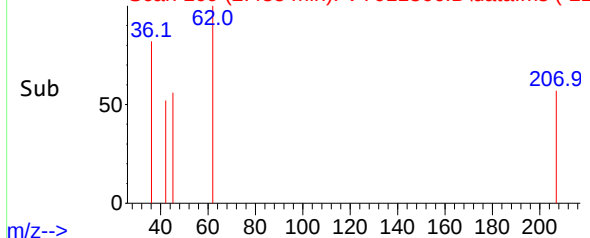
Abundance Scan 71 (2.253 min): VY011739.D\data.ms (-63)



Abundance Scan 109 (2.485 min): VY011866.D\data.ms



Abundance Scan 109 (2.485 min): VY011866.D\data.ms (-22)



#4

Vinyl Chloride

Concen: Below Cal

RT: 2.485 min Scan# 109

Delta R.T. 0.232 min

Lab File: VY011866.D

Acq: 15 Dec 2022 13:06

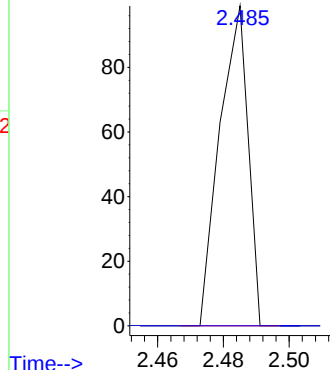
Tgt Ion: 62 Resp: 59

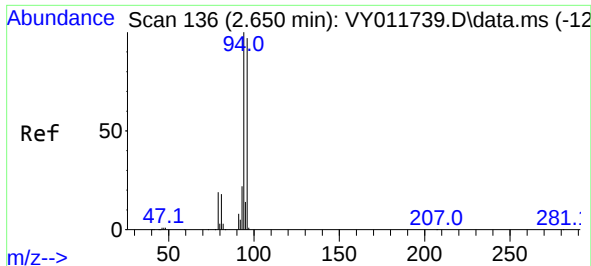
Ion Ratio Lower Upper

62 100

64 0.0 25.0 37.6#

Abundance

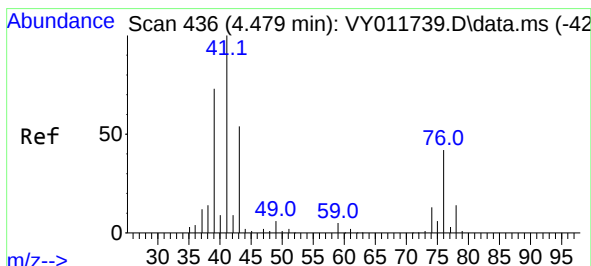
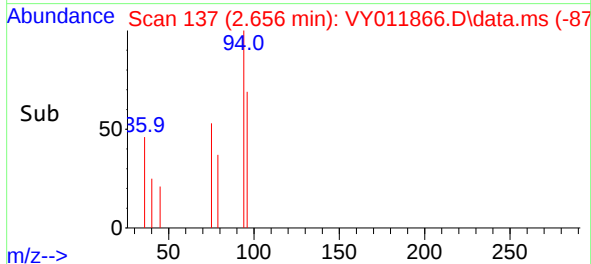
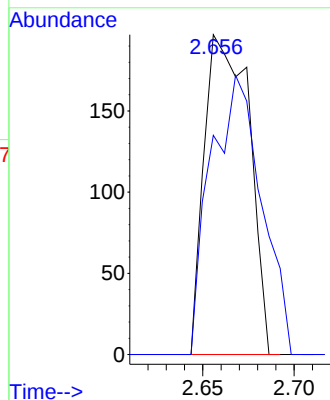
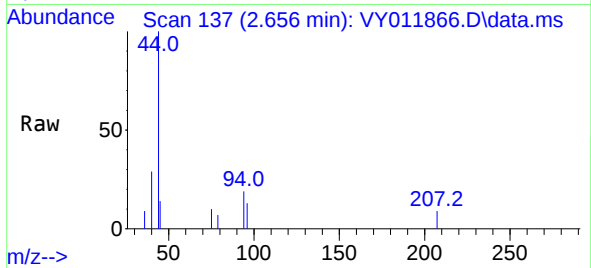




#5  
Bromomethane  
Concen: Below Cal  
RT: 2.656 min Scan# 11  
Delta R.T. 0.006 min  
Lab File: VY011866.D  
Acq: 15 Dec 2022 13:06

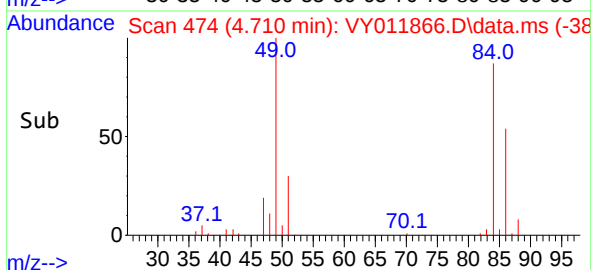
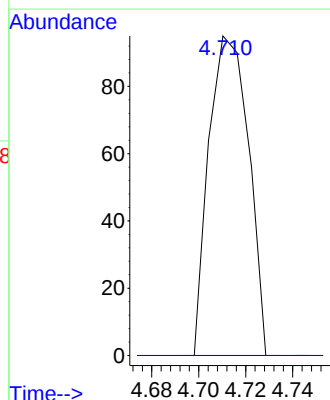
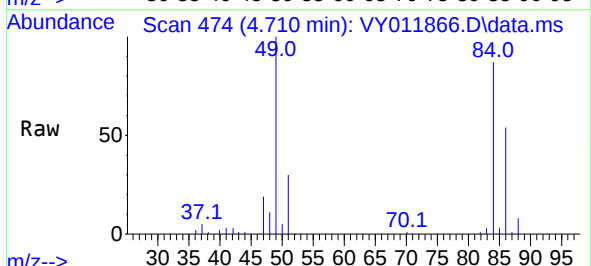
Instrument :  
MSVOA\_Y  
ClientSampleId :  
RB-35-(5-7)

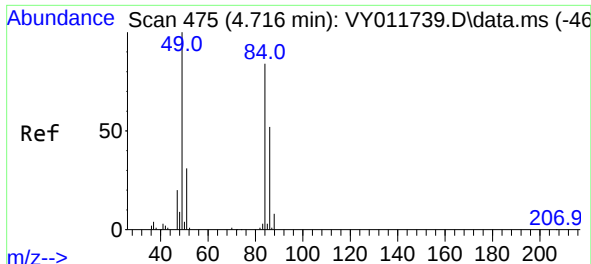
Tgt Ion: 94 Resp: 335  
Ion Ratio Lower Upper  
94 100  
96 68.5 77.4 116.2#



#18  
Methyl Acetate  
Concen: Below Cal  
RT: 4.710 min Scan# 474  
Delta R.T. 0.231 min  
Lab File: VY011866.D  
Acq: 15 Dec 2022 13:06

Tgt Ion: 43 Resp: 112  
Ion Ratio Lower Upper  
43 100  
74 0.0 20.1 30.1#



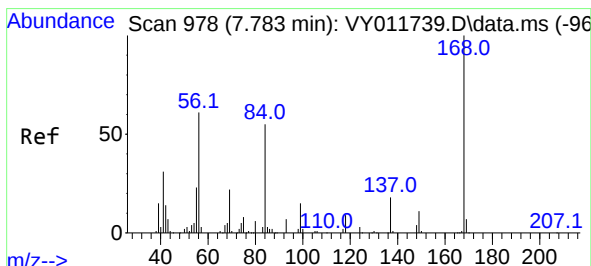
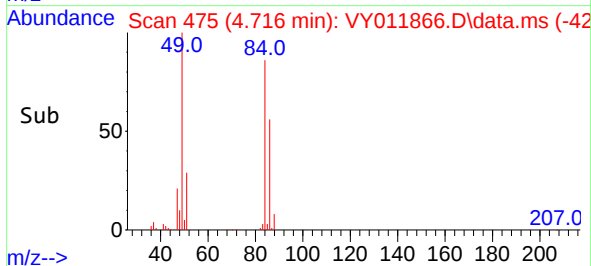
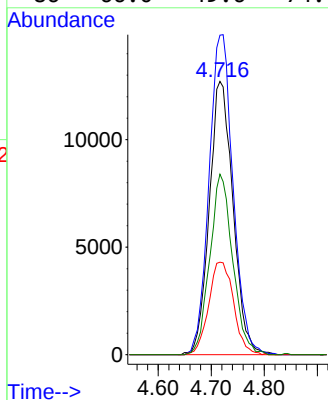
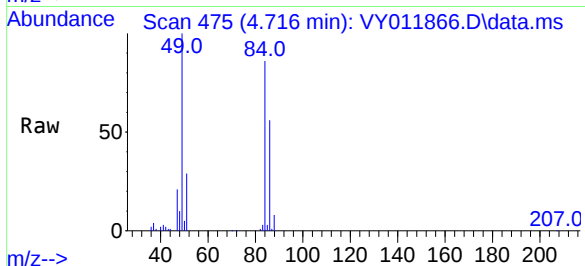


#20  
Methylene Chloride  
Concen: 9.299 ug/l  
RT: 4.716 min Scan# 41  
Delta R.T. 0.000 min  
Lab File: VY011866.D  
Acq: 15 Dec 2022 13:06

Instrument :  
MSVOA\_Y  
ClientSampleId :  
RB-35-(5-7)

Tgt Ion: 84 Resp: 39511

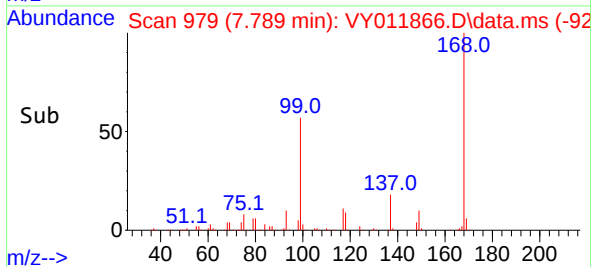
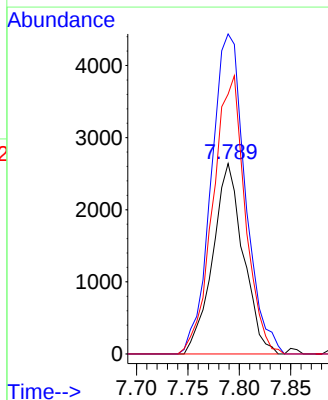
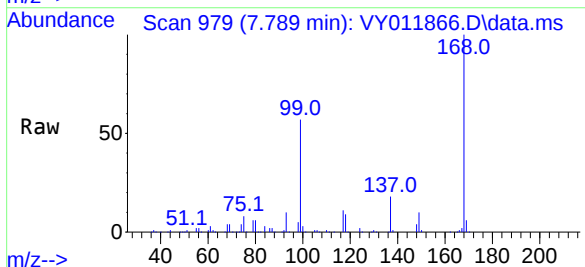
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 84  | 100   |       |       |
| 49  | 116.9 | 95.4  | 143.2 |
| 51  | 33.9  | 29.9  | 44.9  |
| 86  | 66.0  | 49.6  | 74.4  |

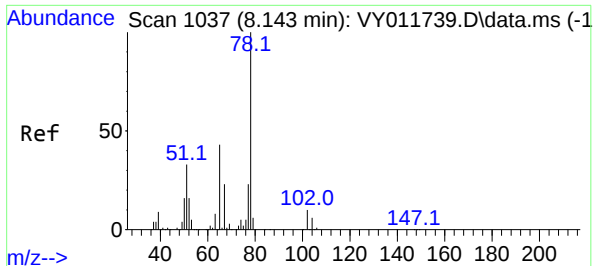


#31  
Cyclohexane  
Concen: Below Cal  
RT: 7.789 min Scan# 979  
Delta R.T. 0.006 min  
Lab File: VY011866.D  
Acq: 15 Dec 2022 13:06

Tgt Ion: 56 Resp: 5477

| Ion | Ratio | Lower | Upper  |
|-----|-------|-------|--------|
| 56  | 100   |       |        |
| 69  | 168.1 | 29.2  | 43.8#  |
| 84  | 136.5 | 72.6  | 108.8# |





#33

1,2-Dichloroethane-d4

Concen: 51.079 ug/l

RT: 8.143 min Scan# 1037

Delta R.T. -0.000 min

Lab File: VY011866.D

Acq: 15 Dec 2022 13:06

Instrument :

MSVOA\_Y

ClientSampleId :

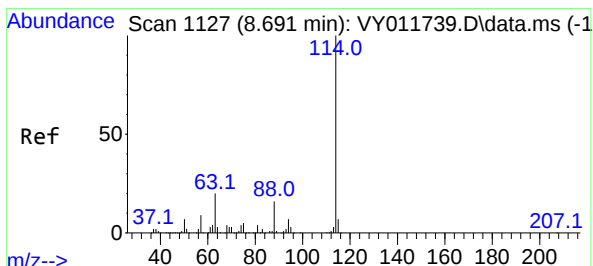
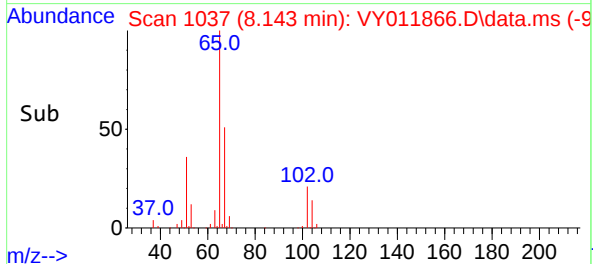
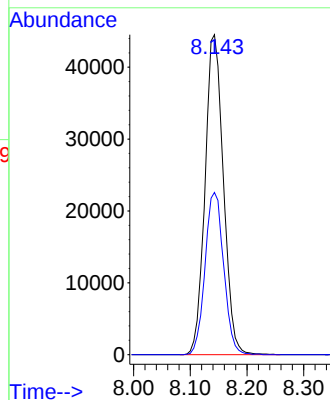
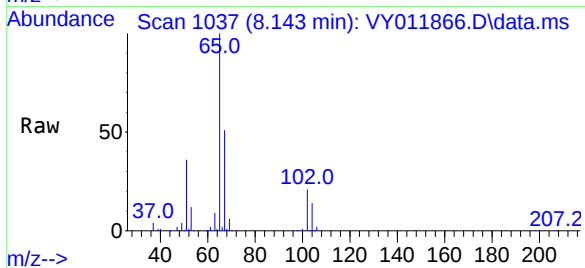
RB-35-(5-7)

Tgt Ion: 65 Resp: 100417

Ion Ratio Lower Upper

65 100

67 51.4 0.0 103.2



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.691 min Scan# 1127

Delta R.T. 0.000 min

Lab File: VY011866.D

Acq: 15 Dec 2022 13:06

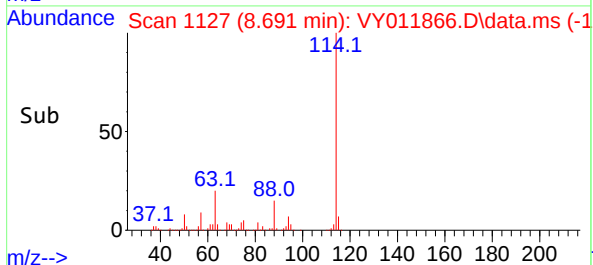
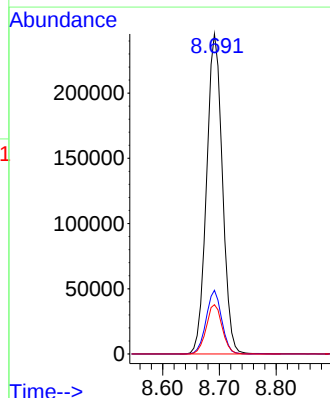
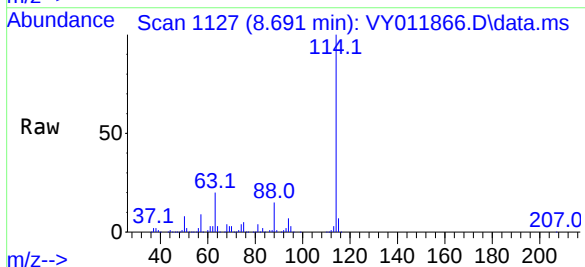
Tgt Ion: 114 Resp: 475720

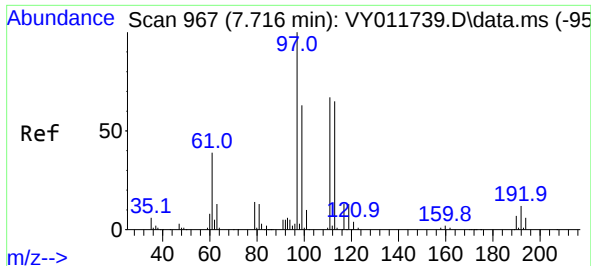
Ion Ratio Lower Upper

114 100

63 19.9 0.0 39.6

88 15.4 0.0 32.2

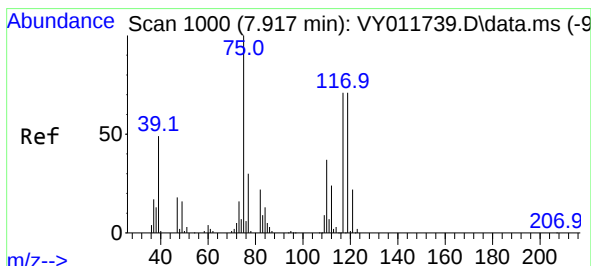
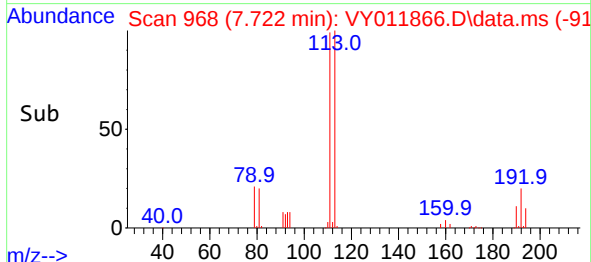
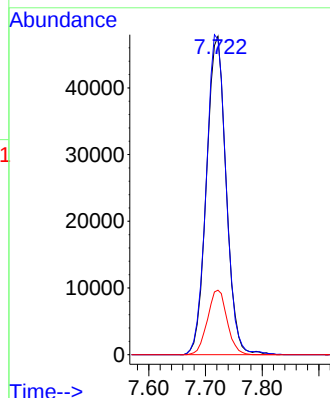
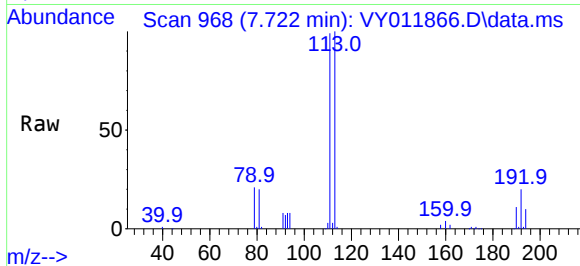




#35  
 Dibromofluoromethane  
 Concen: 54.631 ug/l  
 RT: 7.722 min Scan# 91  
 Delta R.T. 0.006 min  
 Lab File: VY011866.D  
 Acq: 15 Dec 2022 13:06

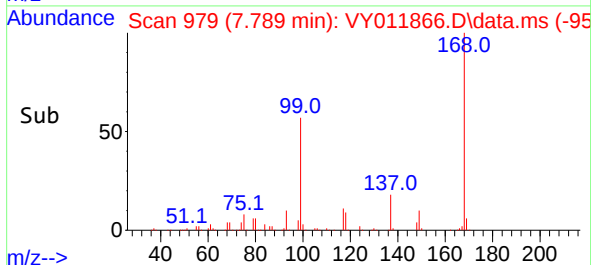
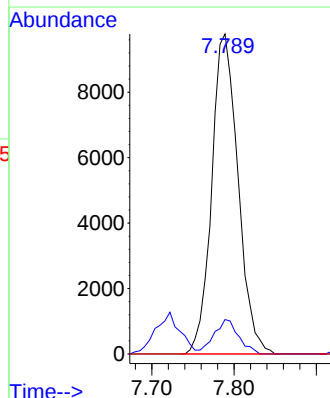
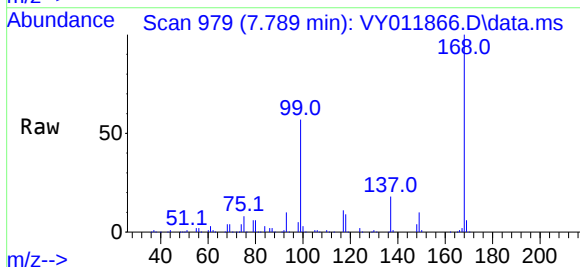
Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 RB-35-(5-7)

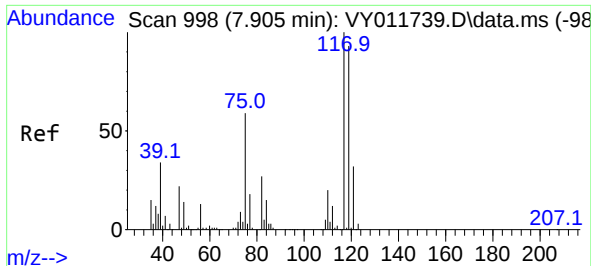
Tgt Ion:113 Resp: 114706  
 Ion Ratio Lower Upper  
 113 100  
 111 101.5 83.0 124.4  
 192 20.2 16.0 24.0



#36  
 1,1-Dichloropropene  
 Concen: 6.031 ug/l  
 RT: 7.789 min Scan# 979  
 Delta R.T. -0.128 min  
 Lab File: VY011866.D  
 Acq: 15 Dec 2022 13:06

Tgt Ion: 75 Resp: 21770  
 Ion Ratio Lower Upper  
 75 100  
 110 9.9 18.1 54.1#  
 77 0.0 25.1 37.7#

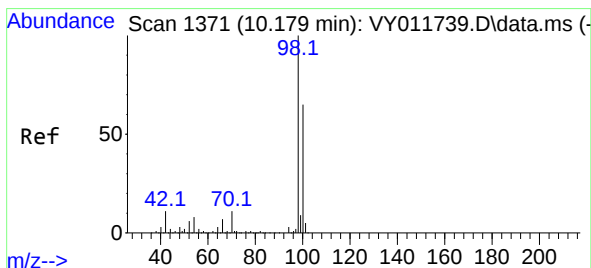
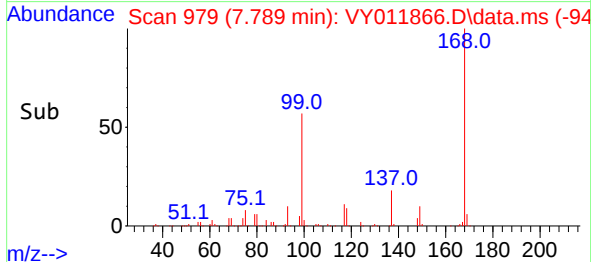
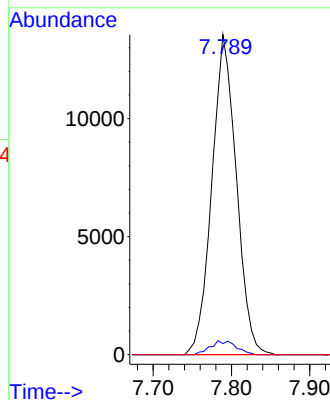
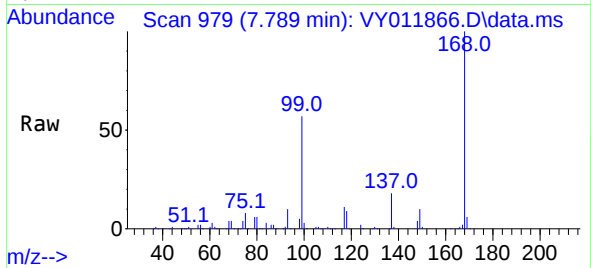




#38  
Carbon Tetrachloride  
Concen: 6.938 ug/l  
RT: 7.789 min Scan# 91  
Delta R.T. -0.116 min  
Lab File: VY011866.D  
Acq: 15 Dec 2022 13:06

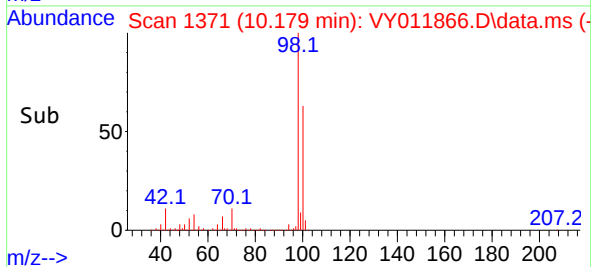
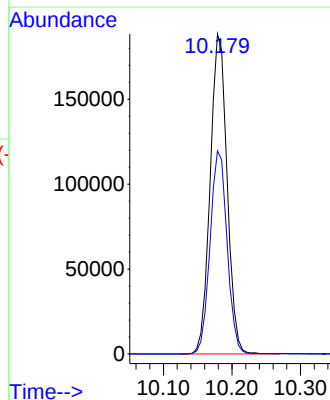
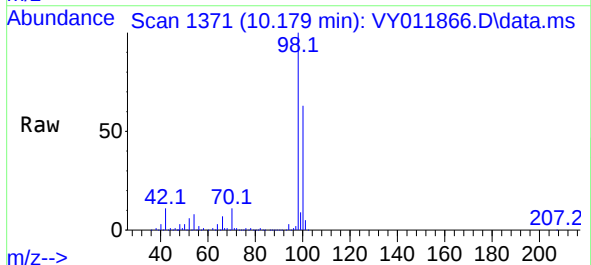
Instrument :  
MSVOA\_Y  
ClientSampleId :  
RB-35-(5-7)

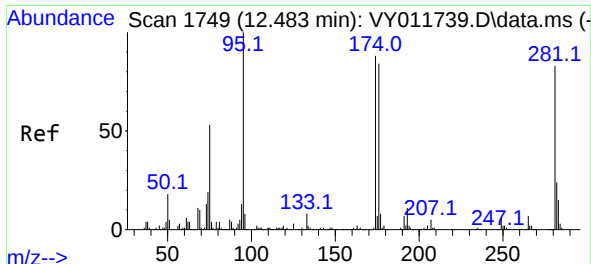
Tgt Ion:117 Resp: 29421  
Ion Ratio Lower Upper  
117 100  
119 3.4 73.8 110.8#  
121 0.0 25.2 37.8#



#50  
Toluene-d8  
Concen: 46.145 ug/l  
RT: 10.179 min Scan# 1371  
Delta R.T. -0.000 min  
Lab File: VY011866.D  
Acq: 15 Dec 2022 13:06

Tgt Ion: 98 Resp: 323313  
Ion Ratio Lower Upper  
98 100  
100 64.1 51.9 77.9

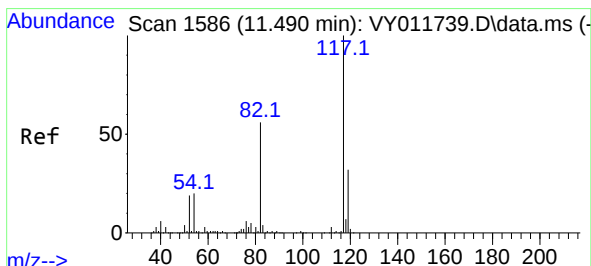
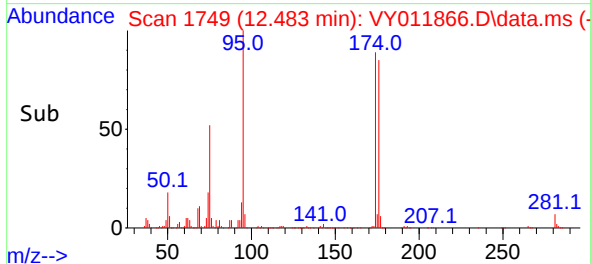
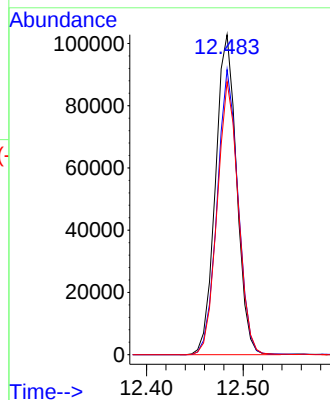
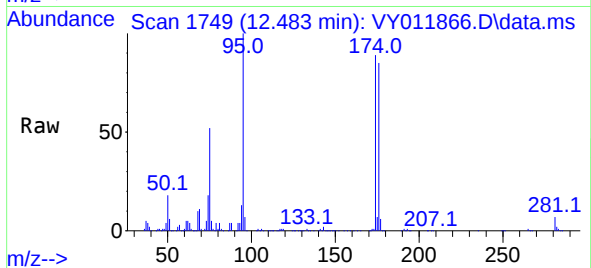




#62  
4-Bromofluorobenzene  
Concen: 57.251 ug/l  
RT: 12.483 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VY011866.D  
Acq: 15 Dec 2022 13:06

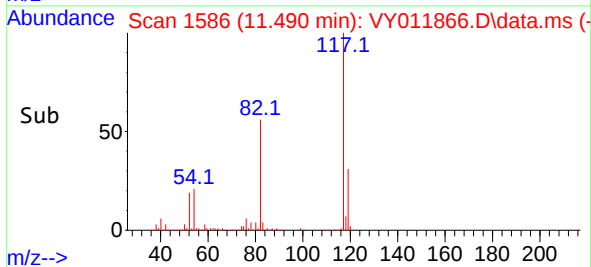
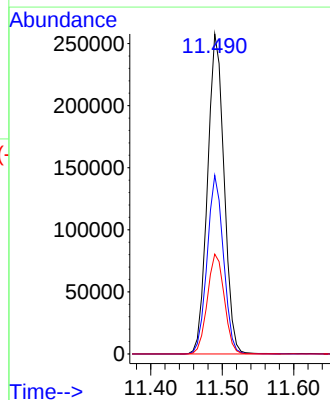
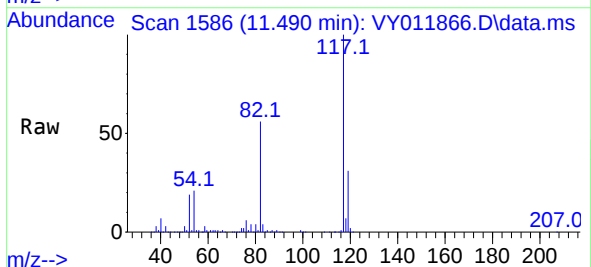
Instrument :  
MSVOA\_Y  
ClientSampleId :  
RB-35-(5-7)

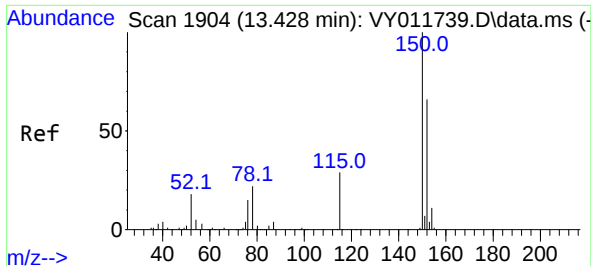
Tgt Ion: 95 Resp: 156077  
Ion Ratio Lower Upper  
95 100  
174 87.9 0.0 172.0  
176 84.8 0.0 167.6



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.490 min Scan# 1586  
Delta R.T. -0.000 min  
Lab File: VY011866.D  
Acq: 15 Dec 2022 13:06

Tgt Ion:117 Resp: 414342  
Ion Ratio Lower Upper  
117 100  
82 55.8 44.8 67.2  
119 31.2 25.4 38.2

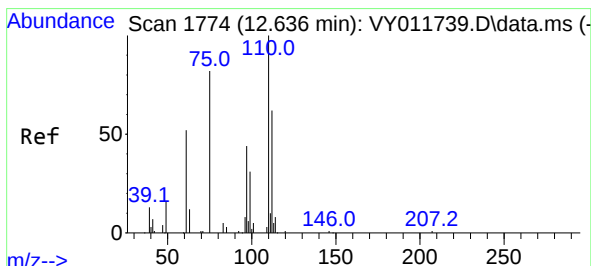
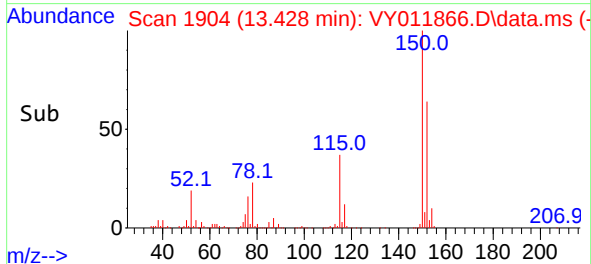
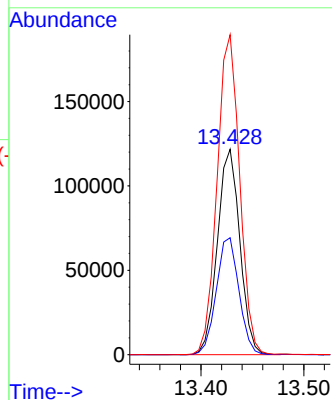
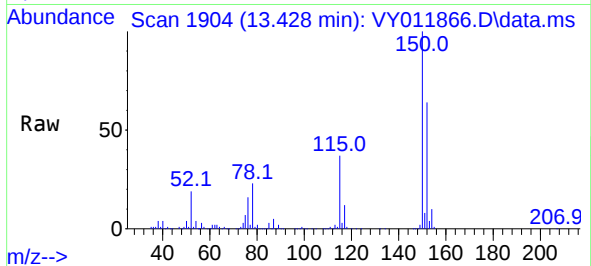




#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.000 ug/l  
 RT: 13.428 min Scan# 1904  
 Delta R.T. -0.000 min  
 Lab File: VY011866.D  
 Acq: 15 Dec 2022 13:06

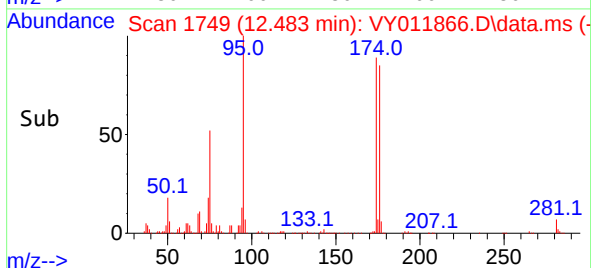
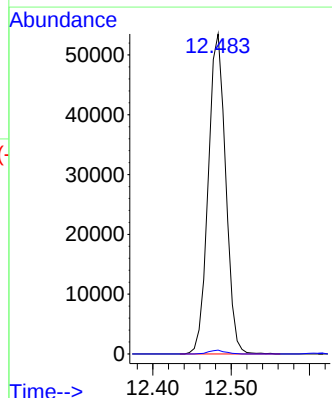
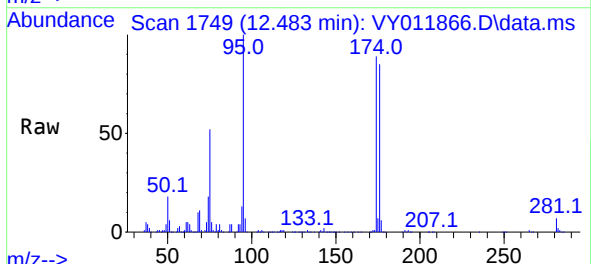
Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 RB-35-(5-7)

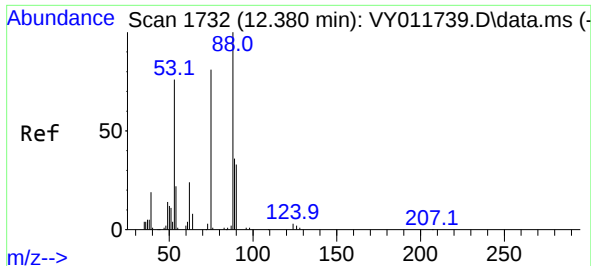
Tgt Ion:152 Resp: 184470  
 Ion Ratio Lower Upper  
 152 100  
 115 57.6 29.1 87.3  
 150 156.8 0.0 342.6



#76  
 1,2,3-Trichloropropane  
 Concen: 44.253 ug/l  
 RT: 12.483 min Scan# 1749  
 Delta R.T. -0.152 min  
 Lab File: VY011866.D  
 Acq: 15 Dec 2022 13:06

Tgt Ion: 75 Resp: 82591  
 Ion Ratio Lower Upper  
 75 100  
 77 1.1 0.0 0.0#





#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 100.418 ug/l  
 RT: 12.483 min Scan# 11  
 Delta R.T. 0.104 min  
 Lab File: VY011866.D  
 Acq: 15 Dec 2022 13:06

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 RB-35-(5-7)

Tgt Ion: 75 Resp: 82591  
 Ion Ratio Lower Upper  
 75 100  
 53 0.1 72.5 108.7#  
 89 0.1 37.0 55.4#

