

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY082423\  
 Data File : VY015308.D  
 Acq On : 24 Aug 2023 13:35  
 Operator : SY/MD  
 Sample : VY0824SBL01  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :

Quant Time: Aug 25 03:17:43 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y081423S.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Aug 14 12:43:26 2023  
 Response via : Initial Calibration

| Compound                   | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|--------|------|----------|--------|-------|----------|
| -----                      |        |      |          |        |       |          |
| Internal Standards         |        |      |          |        |       |          |
| 1) Pentafluorobenzene      | 7.789  | 168  | 154530   | 50.000 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.691  | 114  | 262574   | 50.000 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.490 | 117  | 240924   | 50.000 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.422 | 152  | 114585   | 50.000 | ug/l  | 0.00     |

|                             |        |       |          |          |            |      |
|-----------------------------|--------|-------|----------|----------|------------|------|
| System Monitoring Compounds |        |       |          |          |            |      |
| 33) 1,2-Dichloroethane-d4   | 8.143  | 65    | 101774   | 54.865   | ug/l       | 0.00 |
| Spiked Amount               | 50.000 | Range | 50 - 163 | Recovery | = 109.740% |      |
| 35) Dibromofluoromethane    | 7.716  | 113   | 83373    | 49.356   | ug/l       | 0.00 |
| Spiked Amount               | 50.000 | Range | 54 - 147 | Recovery | = 98.720%  |      |
| 50) Toluene-d8              | 10.179 | 98    | 309958   | 49.291   | ug/l       | 0.00 |
| Spiked Amount               | 50.000 | Range | 58 - 134 | Recovery | = 98.580%  |      |
| 62) 4-Bromofluorobenzene    | 12.477 | 95    | 105447   | 45.911   | ug/l       | 0.00 |
| Spiked Amount               | 50.000 | Range | 30 - 143 | Recovery | = 91.820%  |      |

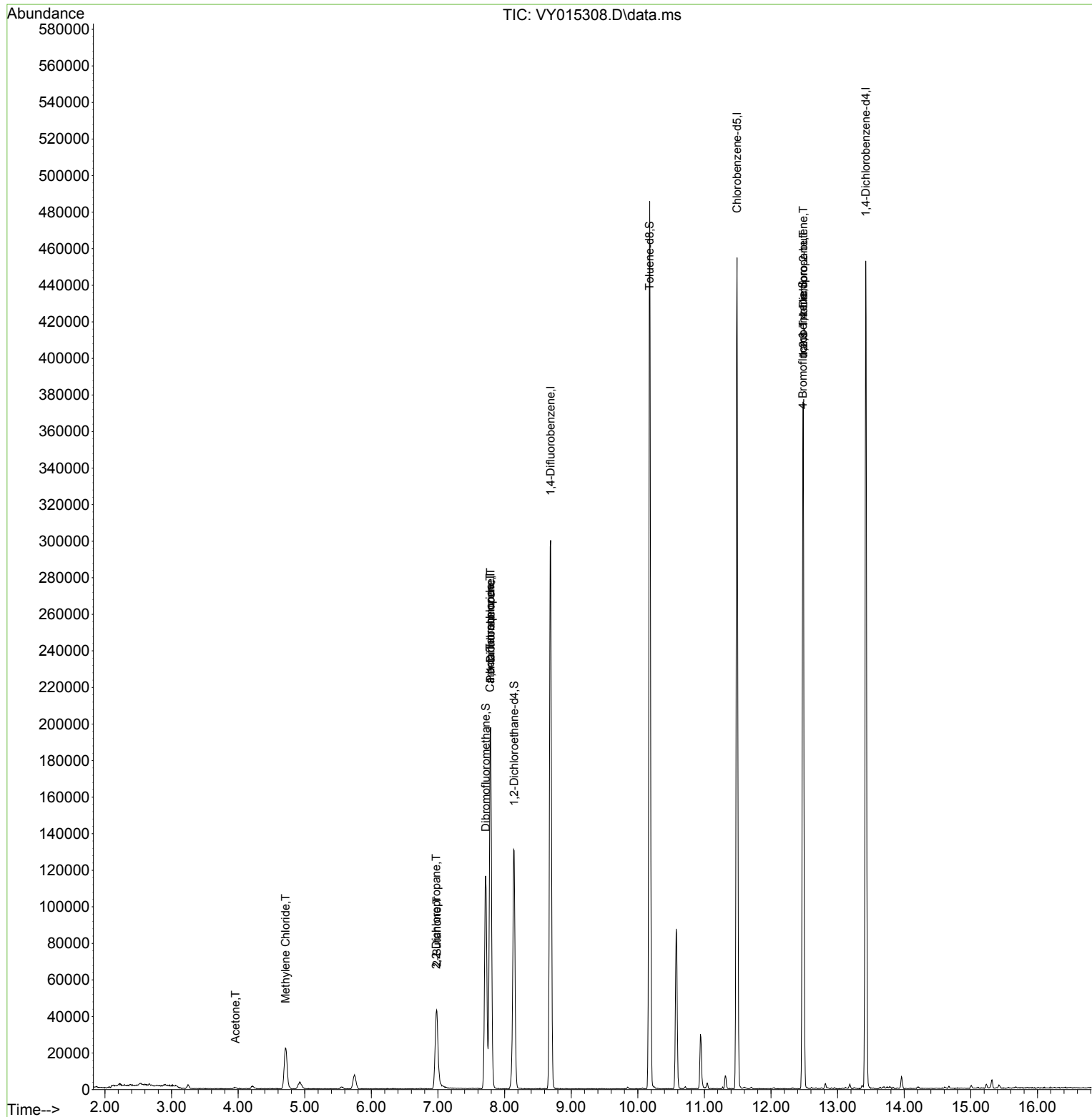
|                               |        |     |       |           |        |     |
|-------------------------------|--------|-----|-------|-----------|--------|-----|
| Target Compounds              |        |     |       |           | Qvalue |     |
| 2) Dichlorodifluoromethane    | 1.900  | 85  | 135   | Below Cal | #      | 43  |
| 3) Chloromethane              | 2.107  | 50  | 259   | Below Cal |        | 91  |
| 5) Bromomethane               | 2.656  | 94  | 349   | Below Cal | #      | 45  |
| 11) Tert butyl alcohol        | 4.924  | 59  | 4104  | Below Cal | #      | 90  |
| 16) Acetone                   | 3.960  | 43  | 1350  | 2.228     | ug/l # | 83  |
| 20) Methylene Chloride        | 4.710  | 84  | 17123 | 8.171     | ug/l   | 92  |
| 25) 2-Butanone                | 6.984  | 43  | 2644  | 3.081     | ug/l # | 73  |
| 26) 2,2-Dichloropropane       | 6.972  | 77  | 3343  | 1.346     | ug/l # | 54  |
| 31) Cyclohexane               | 7.783  | 56  | 3257  | Below Cal | #      | 14  |
| 36) 1,1-Dichloropropene       | 7.789  | 75  | 12239 | 6.549     | ug/l # | 50  |
| 38) Carbon Tetrachloride      | 7.783  | 117 | 15481 | 6.999     | ug/l # | 16  |
| 76) 1,2,3-Trichloropropane    | 12.483 | 75  | 57151 | 41.053    | ug/l # | 100 |
| 81) trans-1,4-Dichloro-2-b... | 12.483 | 75  | 57151 | 90.172    | ug/l # | 11  |

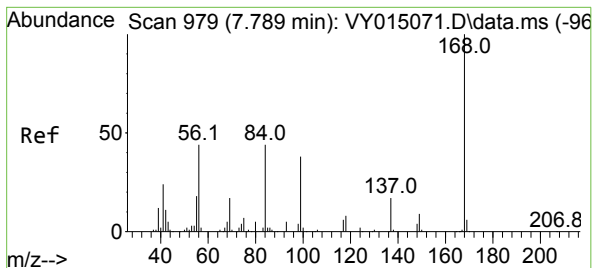
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY082423\  
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Sample : VY0824SBL01  
Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :

Quant Time: Aug 25 03:17:43 2023  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y081423S.M  
Quant Title : SW846 8260  
QLast Update : Mon Aug 14 12:43:26 2023  
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: VY015308.D

Acq: 24 Aug 2023 13:35

Instrument :

MSVOA\_Y

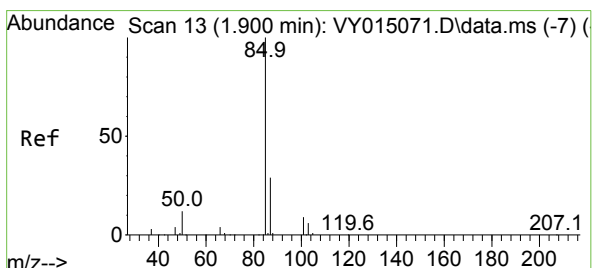
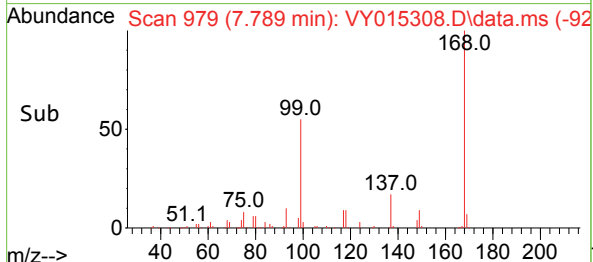
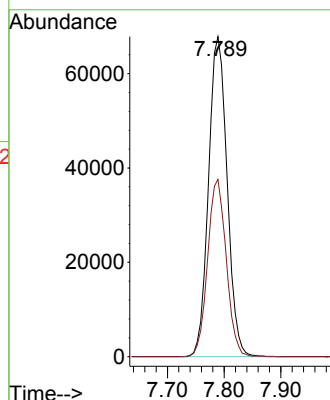
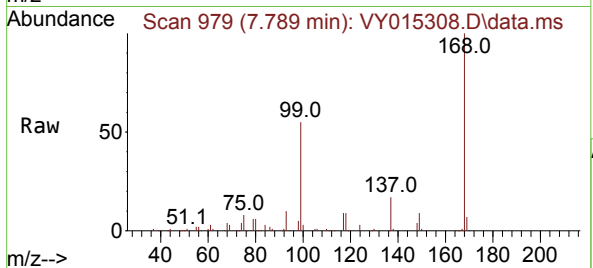
ClientSampleId :

Tgt Ion:168 Resp: 154530

Ion Ratio Lower Upper

168 100

99 55.4 43.4 65.0



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.900 min Scan# 13

Delta R.T. -0.000 min

Lab File: VY015308.D

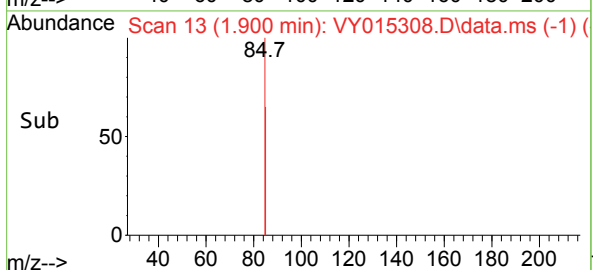
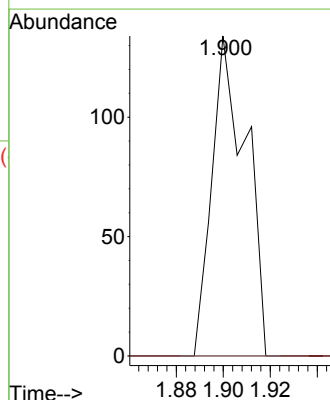
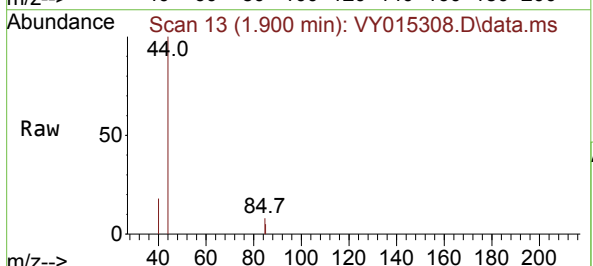
Acq: 24 Aug 2023 13:35

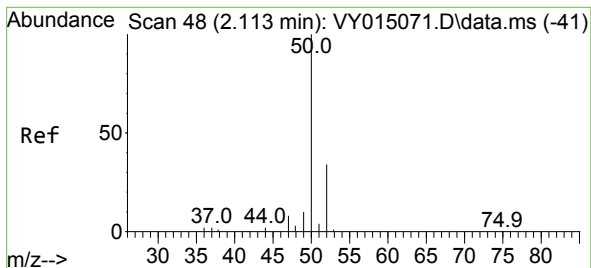
Tgt Ion: 85 Resp: 135

Ion Ratio Lower Upper

85 100

87 0.0 15.6 46.8#





#3

Chloromethane

Concen: Below Cal

RT: 2.107 min Scan# 41

Delta R.T. 0.000 min

Lab File: VY015308.D

Acq: 24 Aug 2023 13:35

Instrument :

MSVOA\_Y

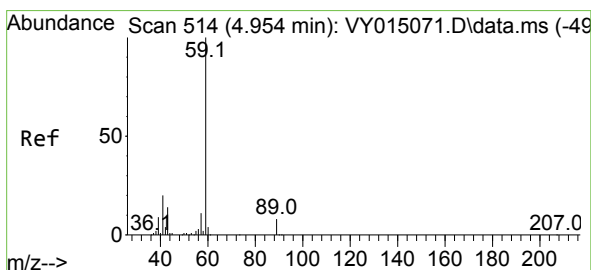
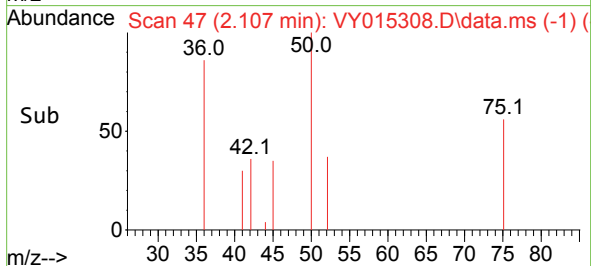
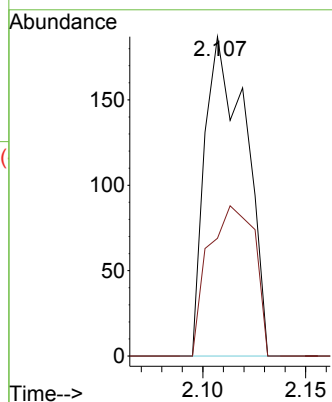
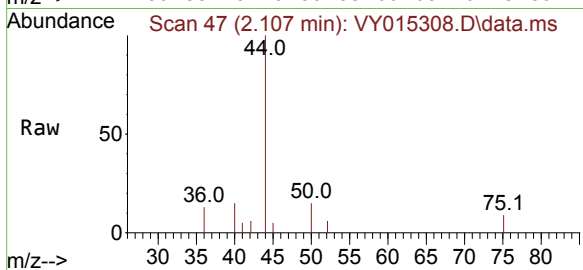
ClientSampleId :

Tgt Ion: 50 Resp: 259

Ion Ratio Lower Upper

50 100

52 36.9 25.4 38.2



#11

Tert butyl alcohol

Concen: Below Cal

RT: 4.924 min Scan# 509

Delta R.T. -0.024 min

Lab File: VY015308.D

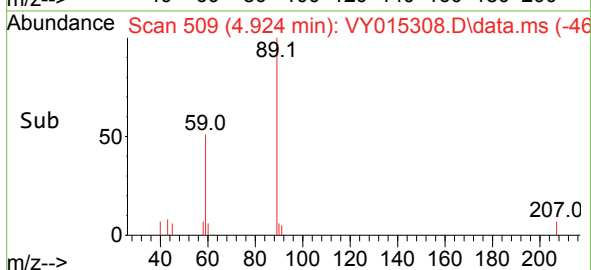
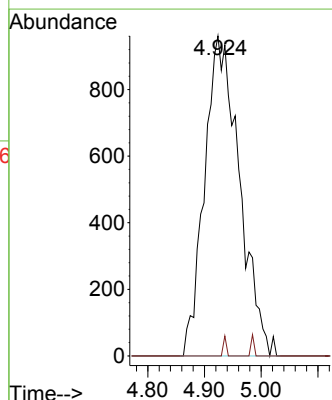
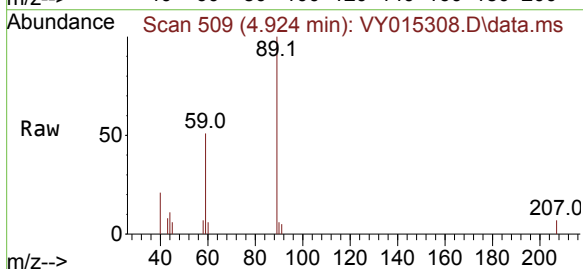
Acq: 24 Aug 2023 13:35

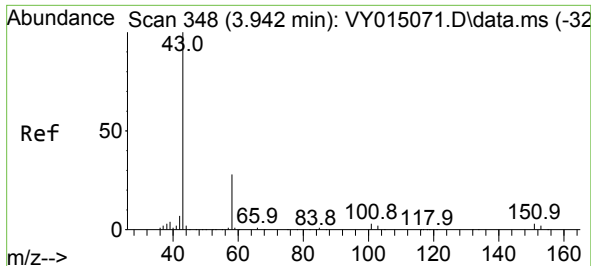
Tgt Ion: 59 Resp: 4104

Ion Ratio Lower Upper

59 100

57 0.5 3.0 4.4#





#16

Acetone

Concen: 2.228 ug/l

RT: 3.960 min Scan# 3

Delta R.T. 0.018 min

Lab File: VY015308.D

Acq: 24 Aug 2023 13:35

Instrument :

MSVOA\_Y

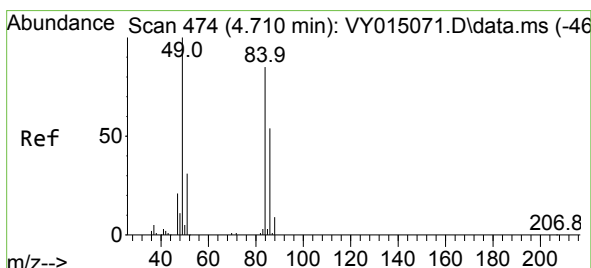
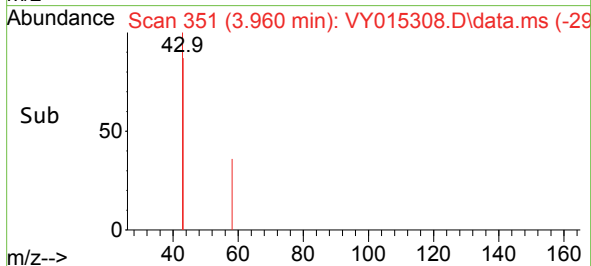
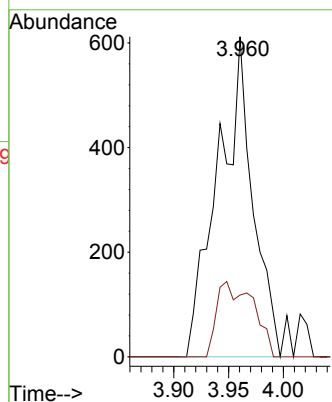
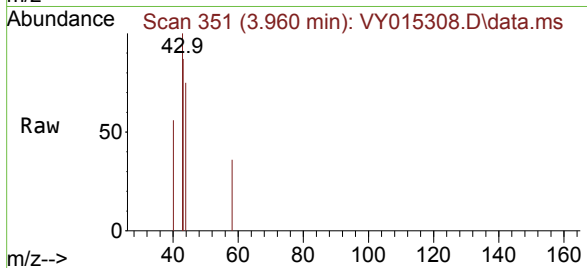
ClientSampleId :

Tgt Ion: 43 Resp: 1350

Ion Ratio Lower Upper

43 100

58 19.3 22.7 34.1#



#20

Methylene Chloride

Concen: 8.171 ug/l

RT: 4.710 min Scan# 474

Delta R.T. 0.000 min

Lab File: VY015308.D

Acq: 24 Aug 2023 13:35

Tgt Ion: 84 Resp: 17123

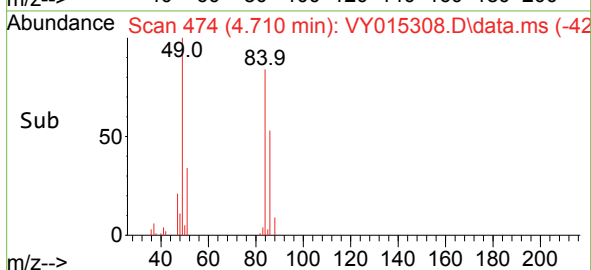
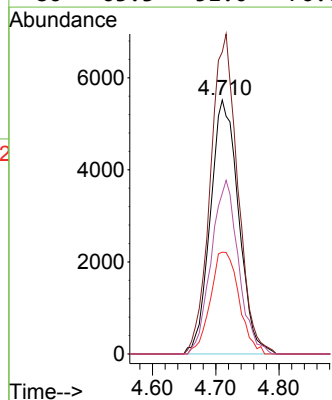
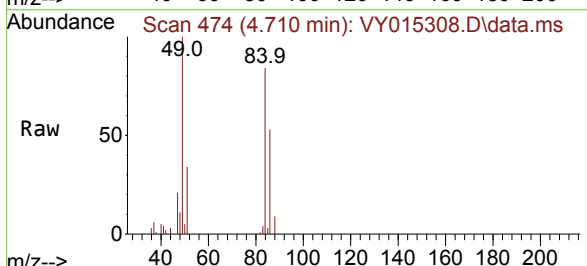
Ion Ratio Lower Upper

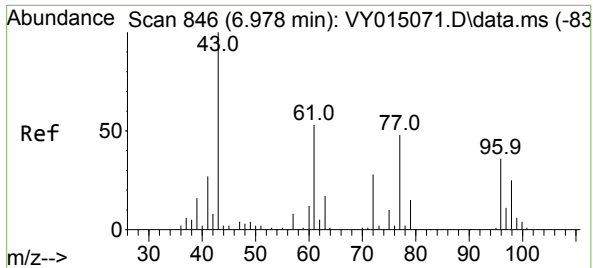
84 100

49 118.9 106.9 160.3

51 40.1 33.2 49.8

86 63.3 51.0 76.6

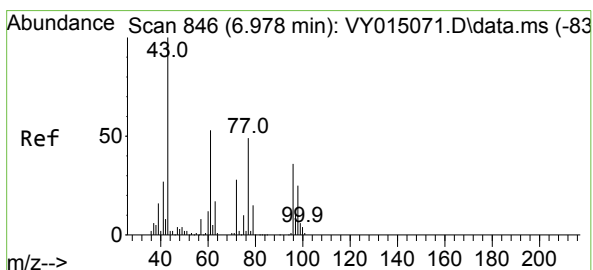
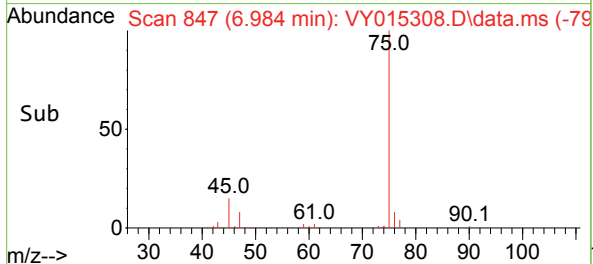
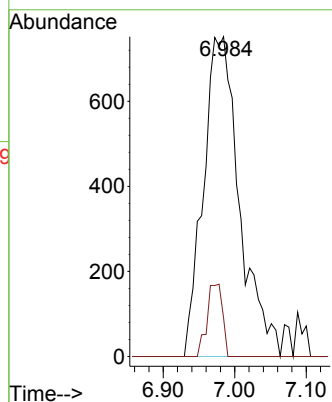
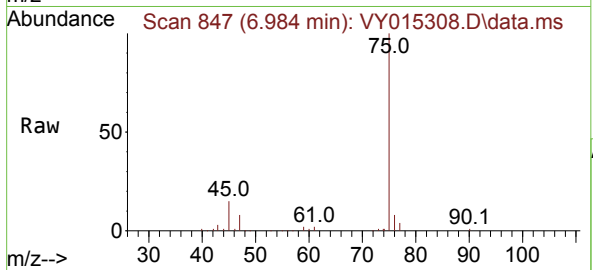




#25  
2-Butanone  
Concen: 3.081 ug/l  
RT: 6.984 min Scan# 846  
Delta R.T. 0.006 min  
Lab File: VY015308.D  
Acq: 24 Aug 2023 13:35

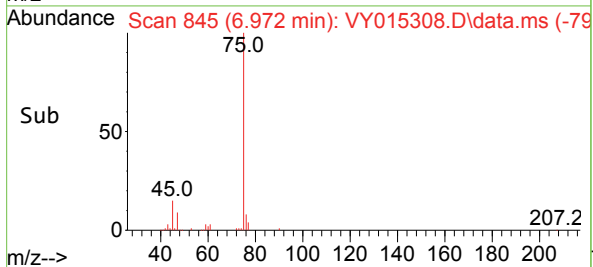
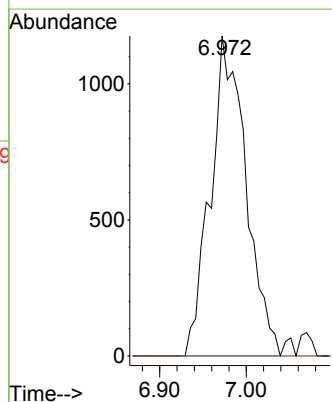
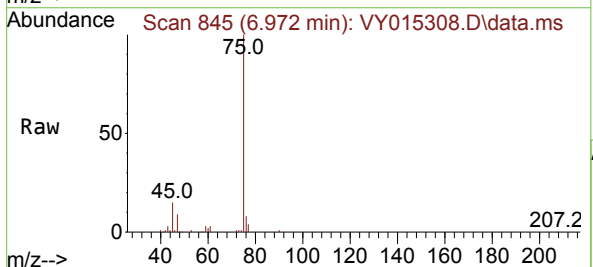
Instrument :  
MSVOA\_Y  
ClientSampleId :

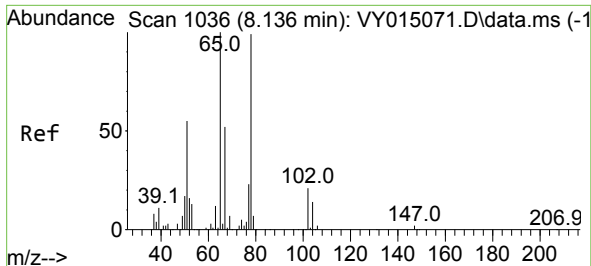
Tgt Ion: 43 Resp: 2644  
Ion Ratio Lower Upper  
43 100  
72 12.1 20.5 30.7#



#26  
2,2-Dichloropropane  
Concen: 1.346 ug/l  
RT: 6.972 min Scan# 845  
Delta R.T. 0.000 min  
Lab File: VY015308.D  
Acq: 24 Aug 2023 13:35

Tgt Ion: 77 Resp: 3343  
Ion Ratio Lower Upper  
77 100  
97 0.0 10.9 32.9#





#33

1,2-Dichloroethane-d4

Concen: 54.865 ug/l

RT: 8.143 min Scan# 1036

Delta R.T. 0.006 min

Lab File: VY015308.D

Acq: 24 Aug 2023 13:35

Instrument :

MSVOA\_Y

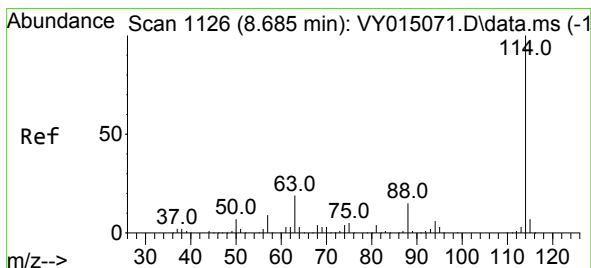
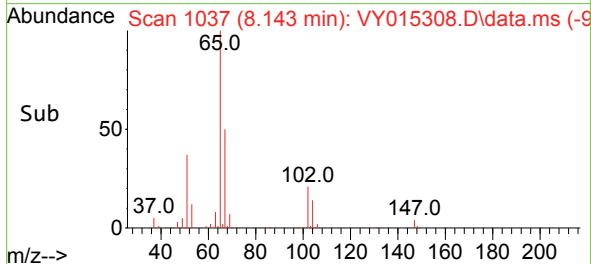
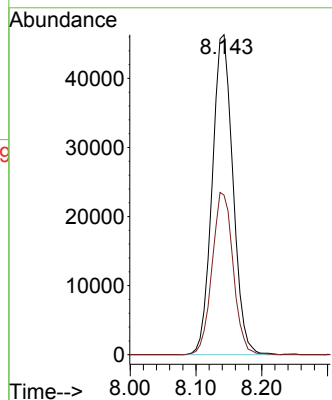
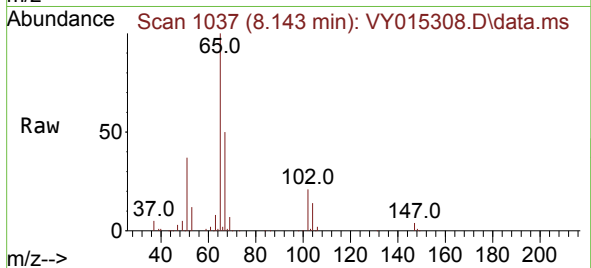
ClientSampleId :

Tgt Ion: 65 Resp: 101774

Ion Ratio Lower Upper

65 100

67 51.5 0.0 101.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.691 min Scan# 1127

Delta R.T. 0.006 min

Lab File: VY015308.D

Acq: 24 Aug 2023 13:35

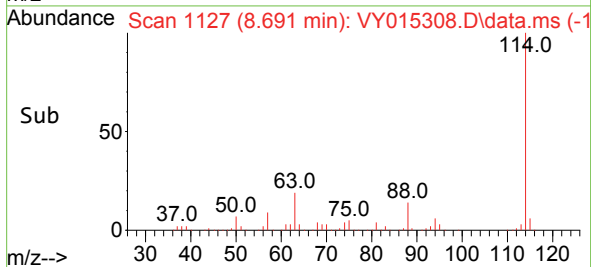
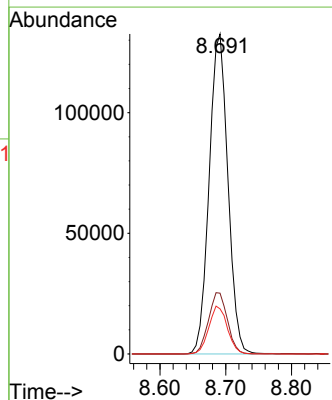
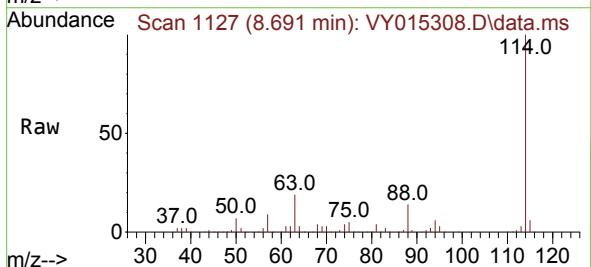
Tgt Ion: 114 Resp: 262574

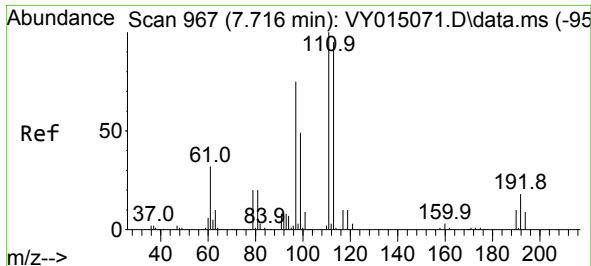
Ion Ratio Lower Upper

114 100

63 19.0 0.0 42.4

88 14.1 0.0 30.6

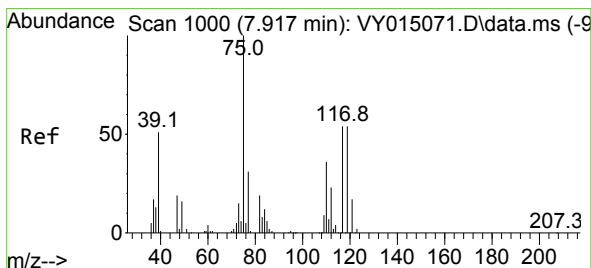
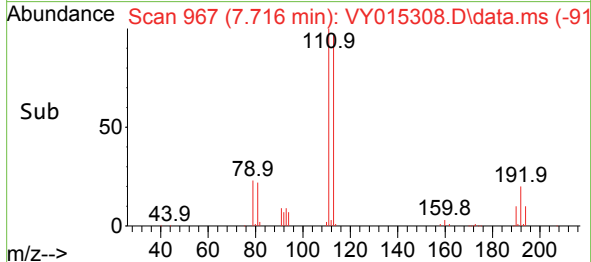
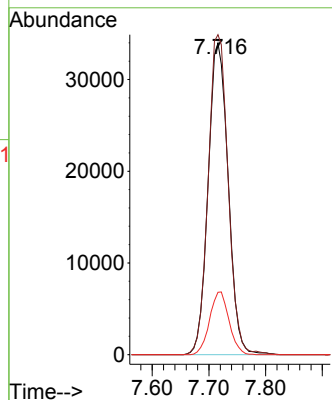
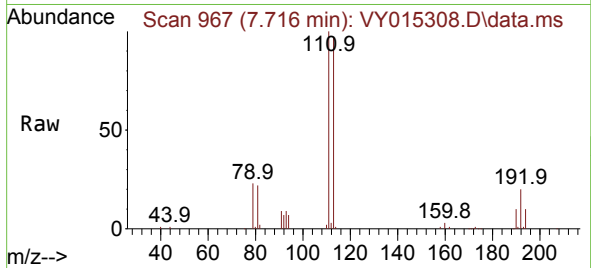




#35  
Dibromofluoromethane  
Concen: 49.356 ug/l  
RT: 7.716 min Scan# 91  
Delta R.T. 0.000 min  
Lab File: VY015308.D  
Acq: 24 Aug 2023 13:35

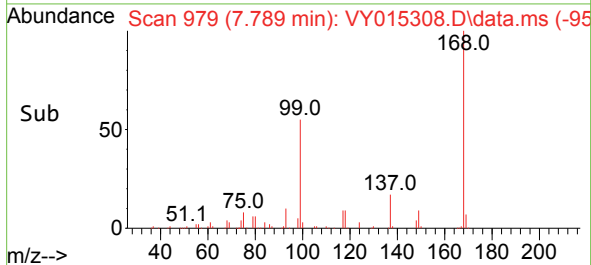
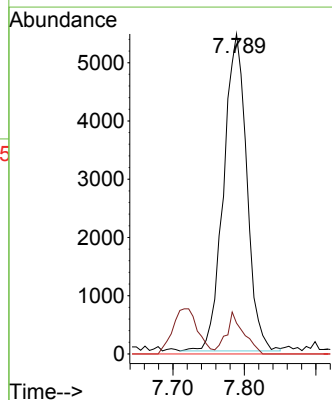
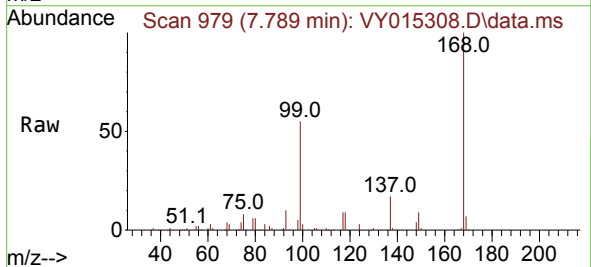
Instrument :  
MSVOA\_Y  
ClientSampleId :

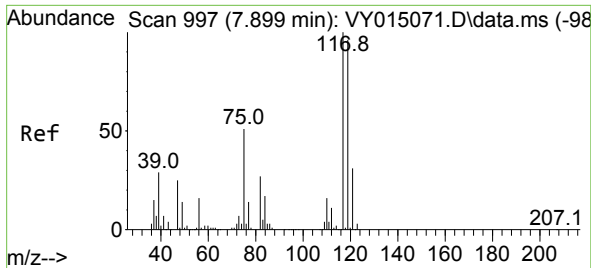
Tgt Ion:113 Resp: 83373  
Ion Ratio Lower Upper  
113 100  
111 102.4 81.3 121.9  
192 19.6 16.9 25.3



#36  
1,1-Dichloropropene  
Concen: 6.549 ug/l  
RT: 7.789 min Scan# 979  
Delta R.T. -0.122 min  
Lab File: VY015308.D  
Acq: 24 Aug 2023 13:35

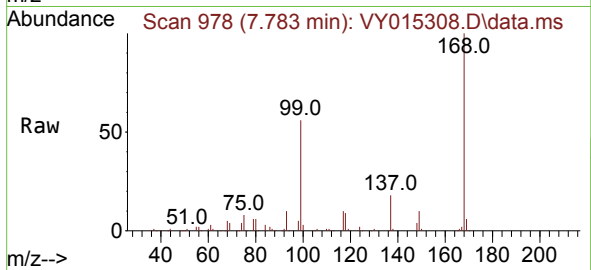
Tgt Ion: 75 Resp: 12239  
Ion Ratio Lower Upper  
75 100  
110 9.7 17.8 53.5#  
77 0.0 24.4 36.6#



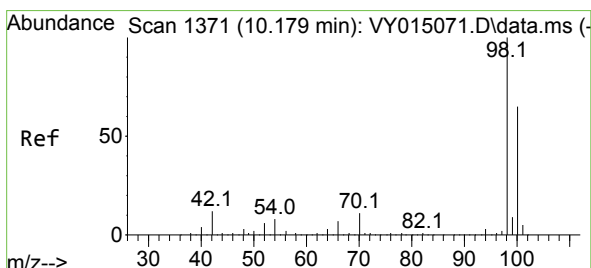
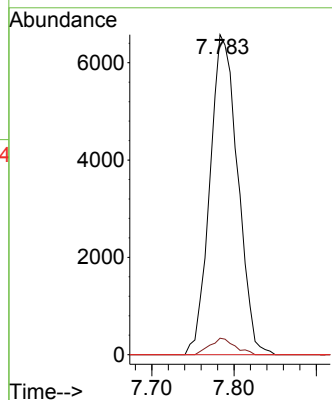
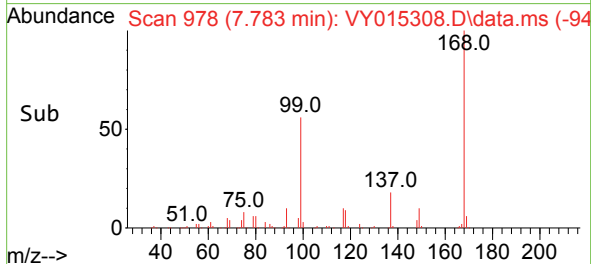


#38  
Carbon Tetrachloride  
Concen: 6.999 ug/l  
RT: 7.783 min Scan# 91  
Delta R.T. -0.116 min  
Lab File: VY015308.D  
Acq: 24 Aug 2023 13:35

Instrument :  
MSVOA\_Y  
ClientSampleId :

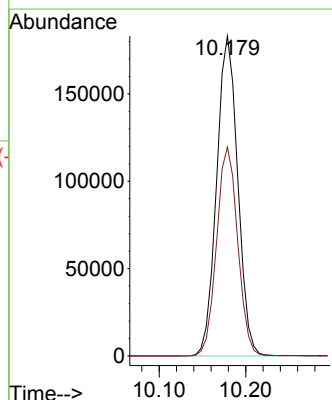
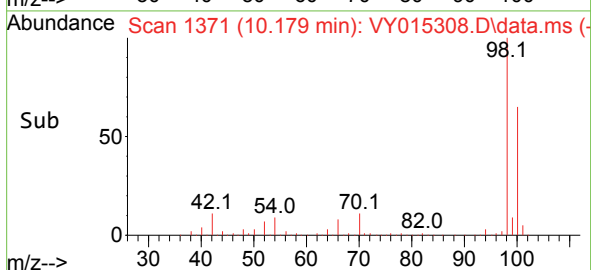
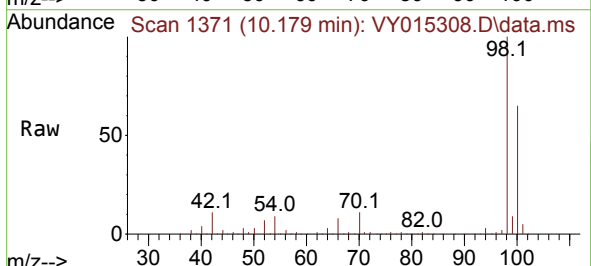


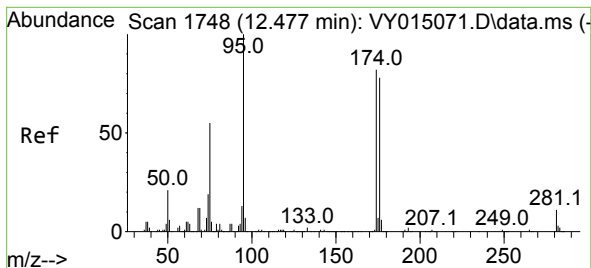
Tgt Ion:117 Resp: 15481  
Ion Ratio Lower Upper  
117 100  
119 5.1 76.4 114.6#  
121 0.0 25.8 38.6#



#50  
Toluene-d8  
Concen: 49.291 ug/l  
RT: 10.179 min Scan# 1371  
Delta R.T. 0.000 min  
Lab File: VY015308.D  
Acq: 24 Aug 2023 13:35

Tgt Ion: 98 Resp: 309958  
Ion Ratio Lower Upper  
98 100  
100 65.2 50.1 75.1

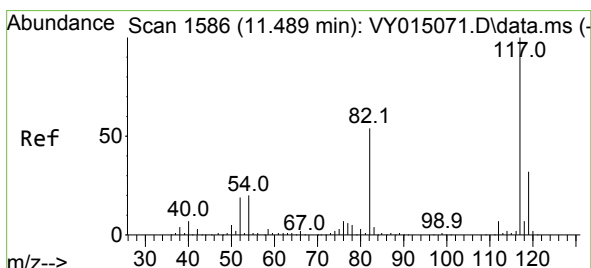
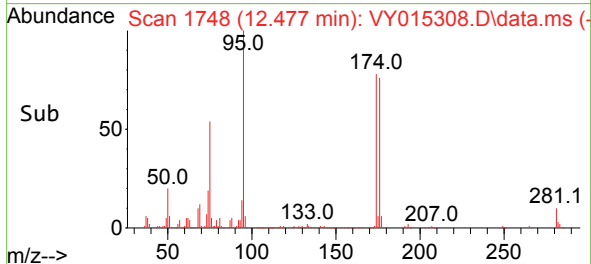
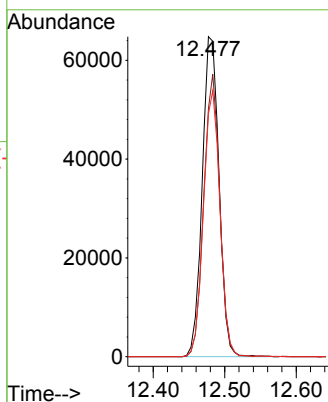
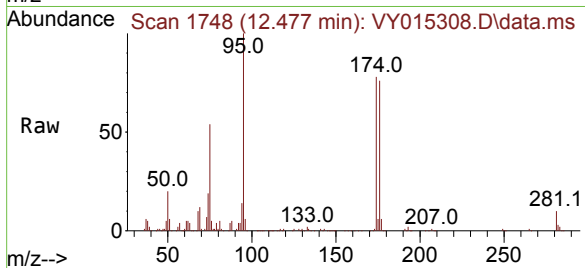




#62  
4-Bromofluorobenzene  
Concen: 45.911 ug/l  
RT: 12.477 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VY015308.D  
Acq: 24 Aug 2023 13:35

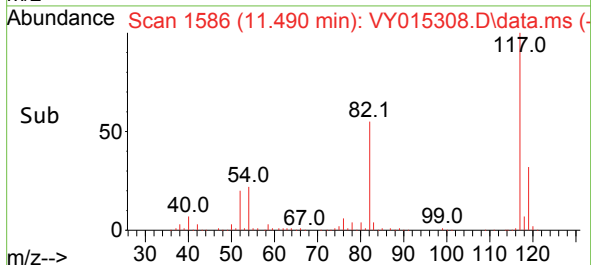
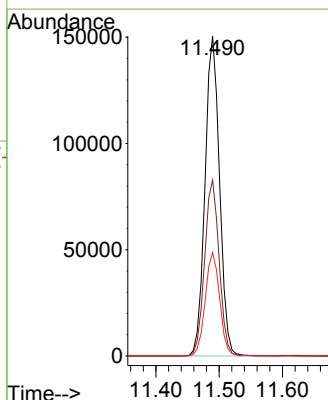
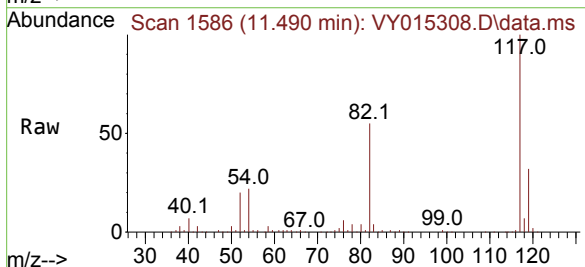
Instrument :  
MSVOA\_Y  
ClientSampleId :

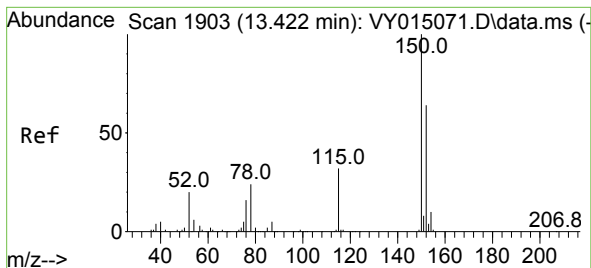
Tgt Ion: 95 Resp: 105447  
Ion Ratio Lower Upper  
95 100  
174 84.5 0.0 178.2  
176 81.6 0.0 173.8



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.490 min Scan# 1586  
Delta R.T. 0.000 min  
Lab File: VY015308.D  
Acq: 24 Aug 2023 13:35

Tgt Ion: 117 Resp: 240924  
Ion Ratio Lower Upper  
117 100  
82 55.0 43.4 65.0  
119 32.3 26.3 39.5





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.422 min Scan# 1903

Delta R.T. 0.000 min

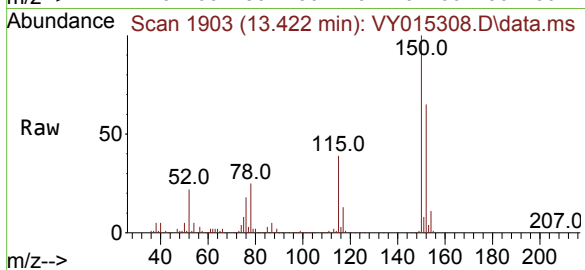
Lab File: VY015308.D

Acq: 24 Aug 2023 13:35

Instrument :

MSVOA\_Y

ClientSampleId :



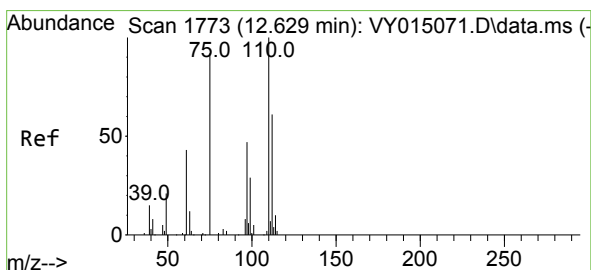
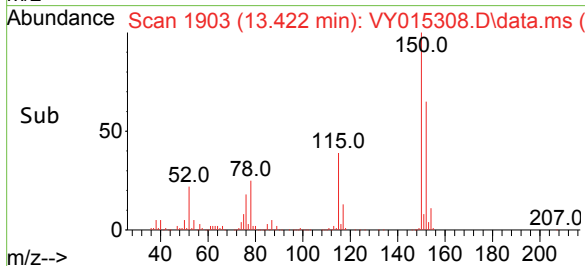
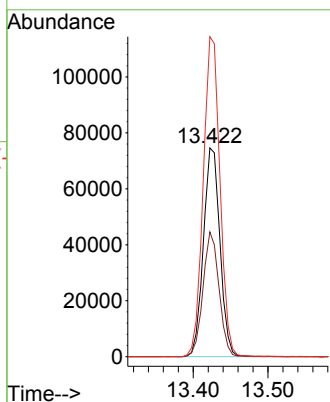
Tgt Ion:152 Resp: 114585

Ion Ratio Lower Upper

152 100

115 58.0 28.8 86.5

150 155.3 0.0 348.8



#76

1,2,3-Trichloropropane

Concen: 41.053 ug/l

RT: 12.483 min Scan# 1749

Delta R.T. -0.146 min

Lab File: VY015308.D

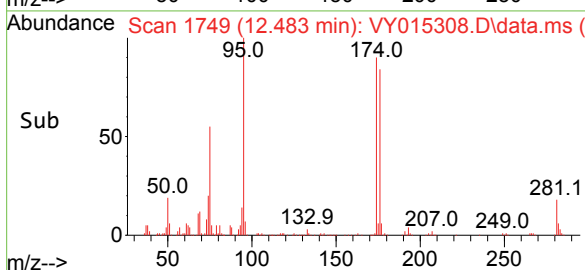
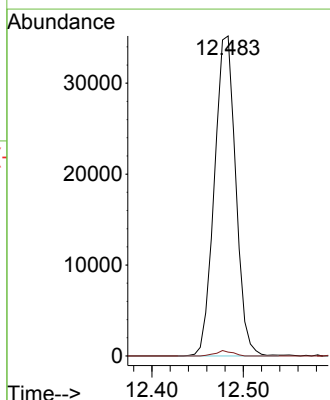
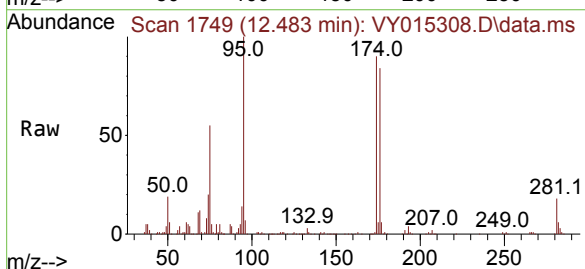
Acq: 24 Aug 2023 13:35

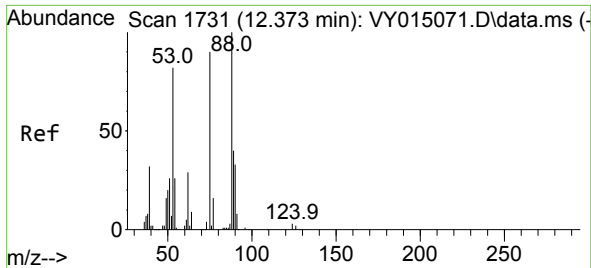
Tgt Ion: 75 Resp: 57151

Ion Ratio Lower Upper

75 100

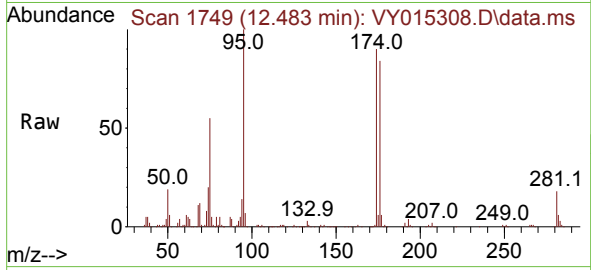
77 1.3 0.0 0.0#





#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 90.172 ug/l  
 RT: 12.483 min Scan# 11  
 Delta R.T. 0.110 min  
 Lab File: VY015308.D  
 Acq: 24 Aug 2023 13:35

Instrument :  
 MSVOA\_Y  
 ClientSampleId :



Tgt Ion: 75 Resp: 57151  
 Ion Ratio Lower Upper  
 75 100  
 53 0.0 77.8 116.8#  
 89 0.4 37.4 56.0#

