

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY013023\  
 Data File : VY012401.D  
 Acq On : 30 Jan 2023 16:35  
 Operator : KP/MD  
 Sample : 01358-13  
 Misc : 7.06g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 JPP-5-012723

Quant Time: Jan 31 01:48:46 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y011623S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jan 17 04:31:47 2023  
 Response via : Initial Calibration

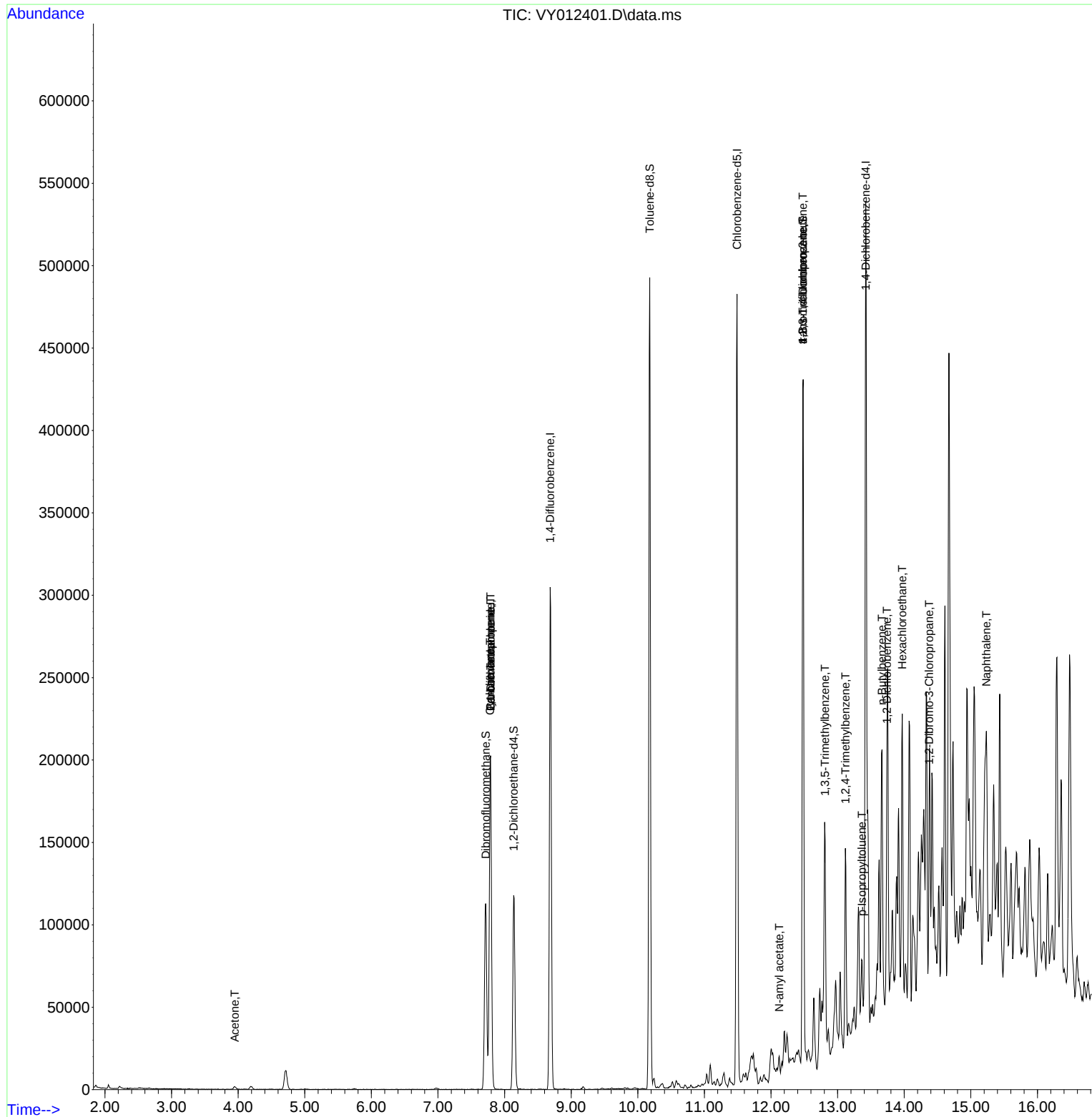
| Compound                      | R.T.   | QIon  | Response | Conc      | Units      | Dev(Min) |
|-------------------------------|--------|-------|----------|-----------|------------|----------|
| -----                         |        |       |          |           |            |          |
| Internal Standards            |        |       |          |           |            |          |
| 1) Pentafluorobenzene         | 7.789  | 168   | 162070   | 50.000    | ug/l       | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.685  | 114   | 268976   | 50.000    | ug/l       | 0.00     |
| 63) Chlorobenzene-d5          | 11.490 | 117   | 270910   | 50.000    | ug/l       | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.422 | 152   | 134002   | 50.000    | ug/l       | 0.00     |
| System Monitoring Compounds   |        |       |          |           |            |          |
| 33) 1,2-Dichloroethane-d4     | 8.136  | 65    | 99374    | 76.019    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 50 - 163 | Recovery  | = 152.040% |          |
| 35) Dibromofluoromethane      | 7.716  | 113   | 76027    | 53.381    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 54 - 147 | Recovery  | = 106.760% |          |
| 50) Toluene-d8                | 10.179 | 98    | 325367   | 67.446    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 49 - 140 | Recovery  | = 134.900% |          |
| 62) 4-Bromofluorobenzene      | 12.477 | 95    | 118778   | 59.160    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 25 - 144 | Recovery  | = 118.320% |          |
| Target Compounds              |        |       |          |           |            |          |
|                               |        |       |          |           | Qvalue     |          |
| 11) Tert butyl alcohol        | 4.948  | 59    | 100      | Below Cal | #          | 74       |
| 16) Acetone                   | 3.948  | 43    | 3120     | 6.913     | ug/l       | 89       |
| 20) Methylene Chloride        | 4.716  | 84    | 9971     | Below Cal | #          | 86       |
| 31) Cyclohexane               | 7.783  | 56    | 3049     | 1.290     | ug/l       | # 30     |
| 36) 1,1-Dichloropropene       | 7.789  | 75    | 10756    | 4.444     | ug/l       | # 51     |
| 38) Carbon Tetrachloride      | 7.789  | 117   | 15707    | 5.024     | ug/l       | # 17     |
| 74) N-amyl acetate            | 12.124 | 43    | 2371     | 1.252     | ug/l       | # 52     |
| 76) 1,2,3-Trichloropropane    | 12.477 | 75    | 64802    | 52.591    | ug/l       | # 100    |
| 80) 1,3,5-Trimethylbenzene    | 12.812 | 105   | 40590    | 4.832     | ug/l       | 95       |
| 81) trans-1,4-Dichloro-2-b... | 12.477 | 75    | 64802    | 108.360   | ug/l       | # 13     |
| 84) 1,2,4-Trimethylbenzene    | 13.117 | 105   | 63182    | 7.627     | ug/l       | 100      |
| 86) p-Isopropyltoluene        | 13.367 | 119   | 15805    | 1.735     | ug/l       | 98       |
| 89) n-Butylbenzene            | 13.666 | 91    | 24659    | 3.124     | ug/l       | # 1      |
| 90) Hexachloroethane          | 13.971 | 117   | 7690     | 4.677     | ug/l       | # 9      |
| 91) 1,2-Dichlorobenzene       | 13.739 | 146   | 11828    | 2.867     | ug/l       | # 77     |
| 92) 1,2-Dibromo-3-Chloropr... | 14.373 | 75    | 341      | 1.084     | ug/l       | # 6      |
| 95) Naphthalene               | 15.233 | 128   | 104556   | 20.036    | ug/l       | 97       |
| -----                         |        |       |          |           |            |          |

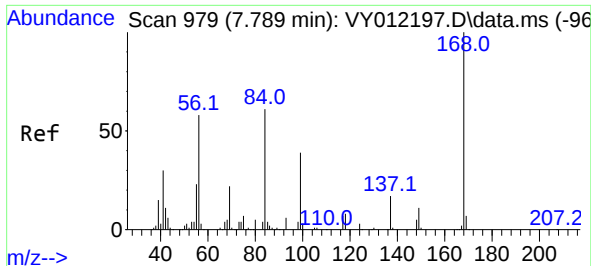
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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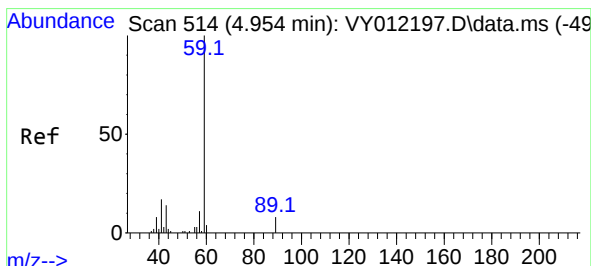
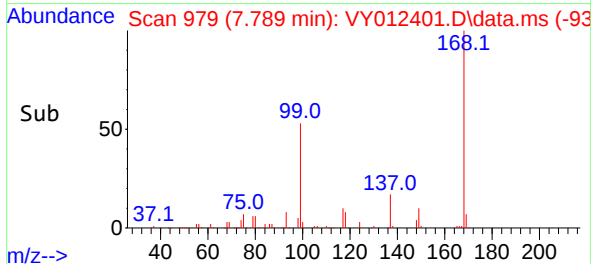
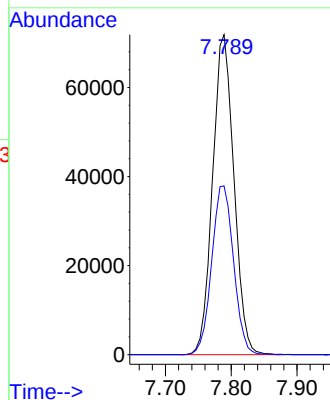
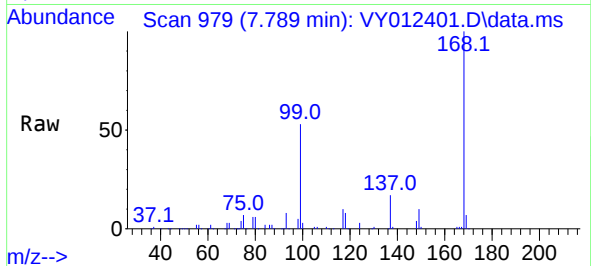




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.789 min Scan# 91  
Delta R.T. -0.000 min  
Lab File: VY012401.D  
Acq: 30 Jan 2023 16:35

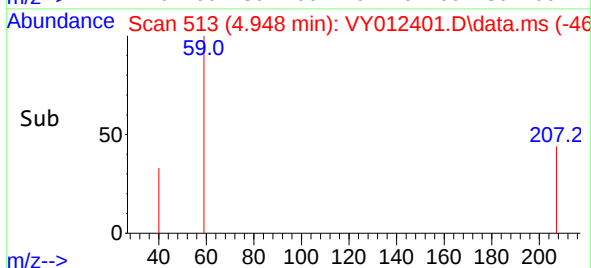
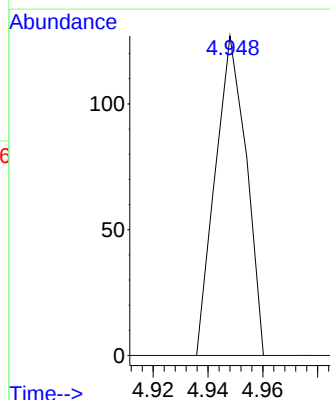
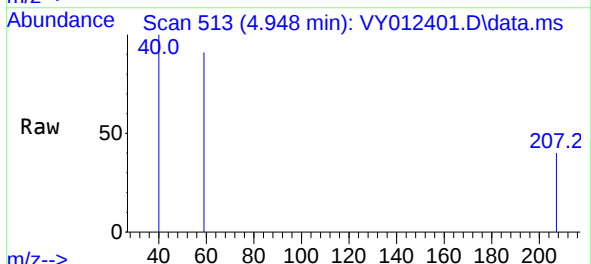
Instrument :  
MSVOA\_Y  
ClientSampleId :  
JPP-5-012723

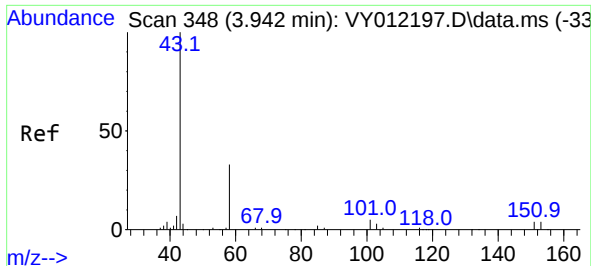
Tgt Ion:168 Resp: 162070  
Ion Ratio Lower Upper  
168 100  
99 52.7 44.0 66.0



#11  
Tert butyl alcohol  
Concen: Below Cal  
RT: 4.948 min Scan# 513  
Delta R.T. 0.000 min  
Lab File: VY012401.D  
Acq: 30 Jan 2023 16:35

Tgt Ion: 59 Resp: 100  
Ion Ratio Lower Upper  
59 100  
57 0.0 7.4 11.2#

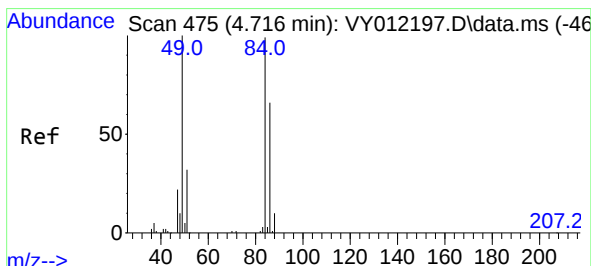
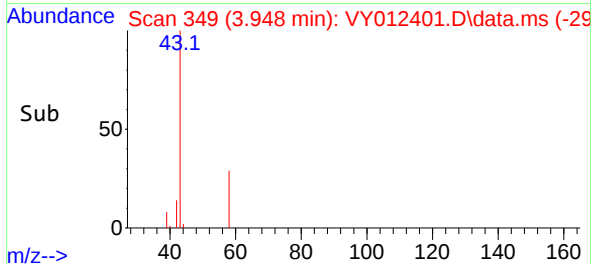
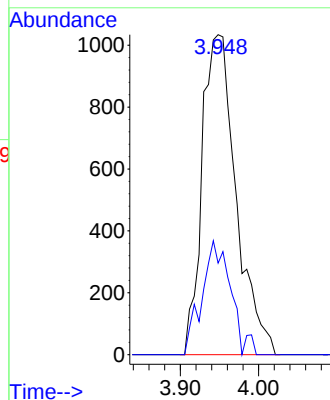
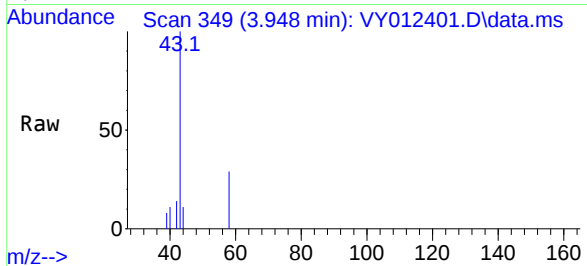




#16  
Acetone  
Concen: 6.913 ug/l  
RT: 3.948 min Scan# 34  
Delta R.T. 0.006 min  
Lab File: VY012401.D  
Acq: 30 Jan 2023 16:35

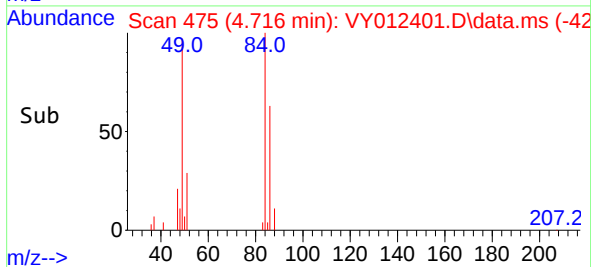
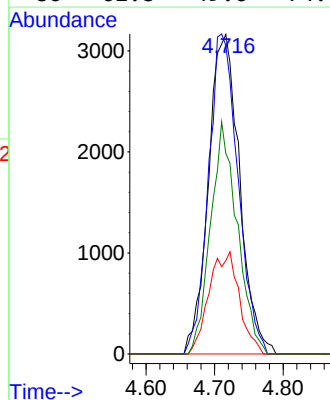
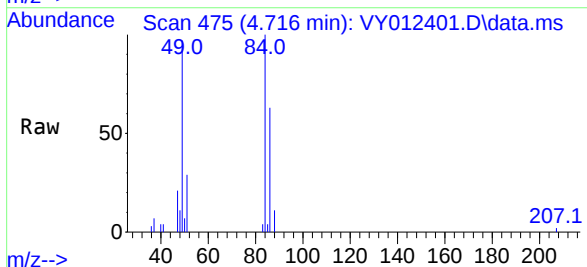
Instrument :  
MSVOA\_Y  
ClientSampleId :  
JPP-5-012723

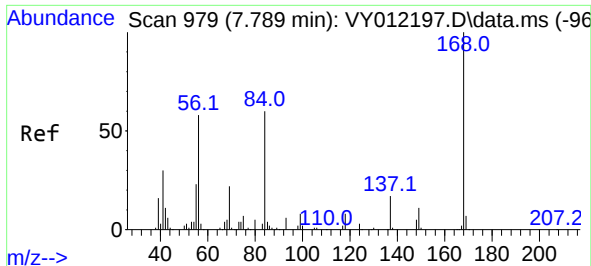
Tgt Ion: 43 Resp: 3120  
Ion Ratio Lower Upper  
43 100  
58 28.6 27.9 41.9



#20  
Methylene Chloride  
Concen: Below Cal  
RT: 4.716 min Scan# 475  
Delta R.T. 0.000 min  
Lab File: VY012401.D  
Acq: 30 Jan 2023 16:35

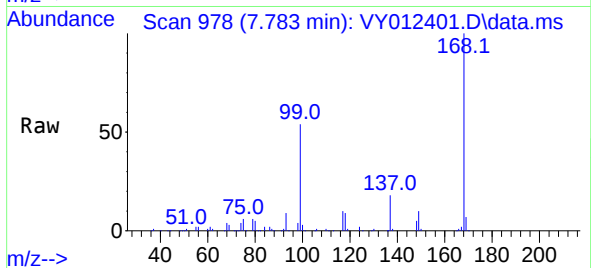
Tgt Ion: 84 Resp: 9971  
Ion Ratio Lower Upper  
84 100  
49 96.6 95.4 143.2  
51 29.2 29.9 44.9#  
86 62.8 49.6 74.4



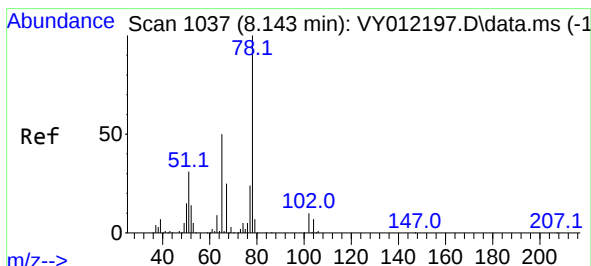
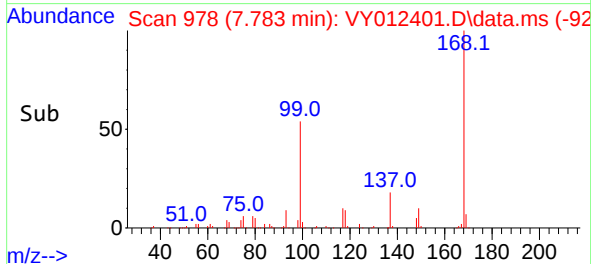
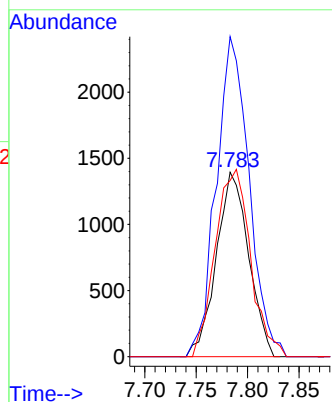


#31  
Cyclohexane  
Concen: 1.290 ug/l  
RT: 7.783 min Scan# 91  
Delta R.T. -0.000 min  
Lab File: VY012401.D  
Acq: 30 Jan 2023 16:35

Instrument :  
MSVOA\_Y  
ClientSampleId :  
JPP-5-012723

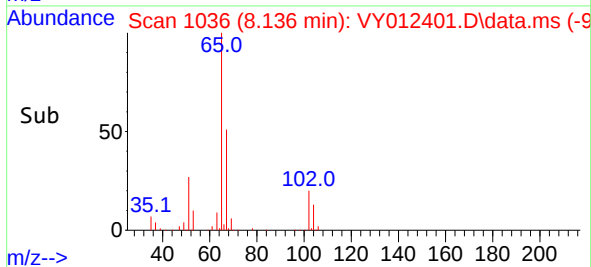
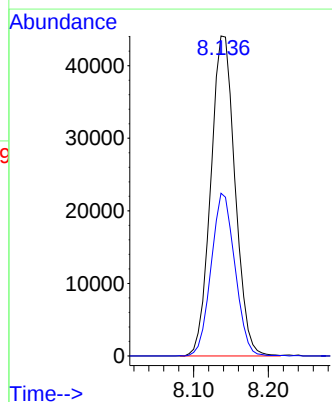
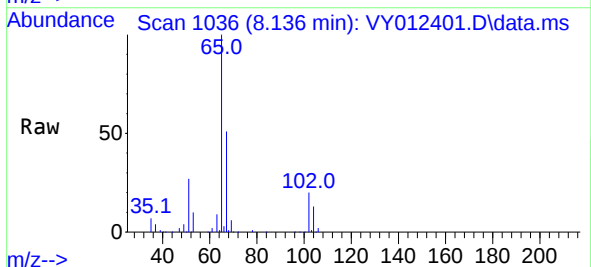


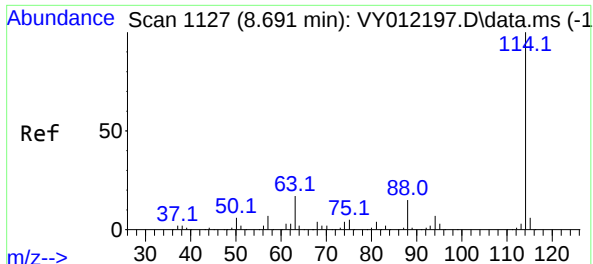
Tgt Ion: 56 Resp: 3049  
Ion Ratio Lower Upper  
56 100  
69 173.5 29.2 43.8#  
84 95.5 72.6 108.8



#33  
1,2-Dichloroethane-d4  
Concen: 76.019 ug/l  
RT: 8.136 min Scan# 1036  
Delta R.T. -0.007 min  
Lab File: VY012401.D  
Acq: 30 Jan 2023 16:35

Tgt Ion: 65 Resp: 99374  
Ion Ratio Lower Upper  
65 100  
67 49.9 0.0 103.2





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.685 min Scan# 1126

Delta R.T. -0.006 min

Lab File: VY012401.D

Acq: 30 Jan 2023 16:35

Instrument :

MSVOA\_Y

ClientSampleId :

JPP-5-012723

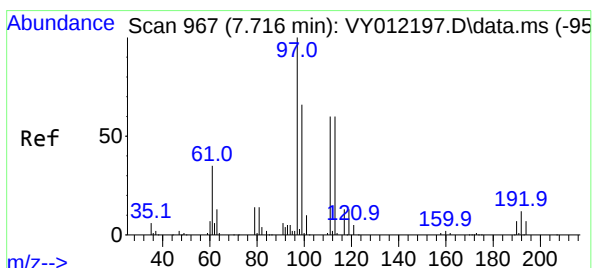
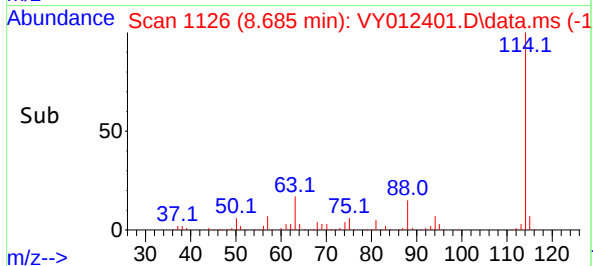
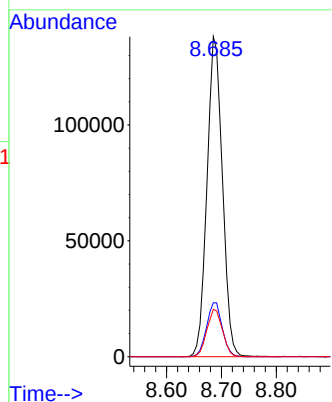
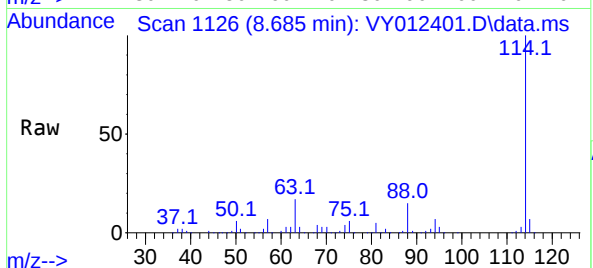
Tgt Ion:114 Resp: 268976

Ion Ratio Lower Upper

114 100

63 16.9 0.0 39.6

88 14.8 0.0 32.2



#35

Dibromofluoromethane

Concen: 53.381 ug/l

RT: 7.716 min Scan# 967

Delta R.T. -0.000 min

Lab File: VY012401.D

Acq: 30 Jan 2023 16:35

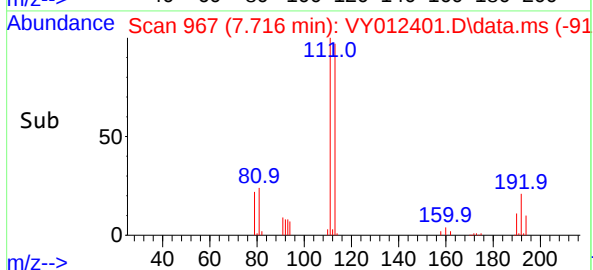
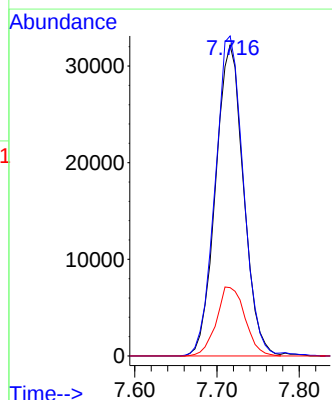
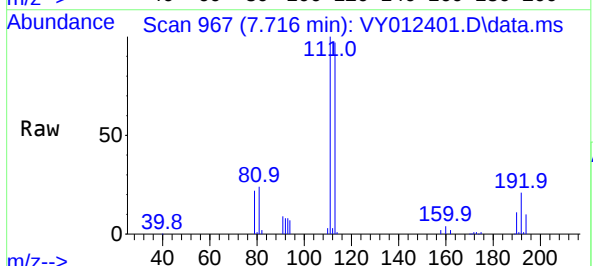
Tgt Ion:113 Resp: 76027

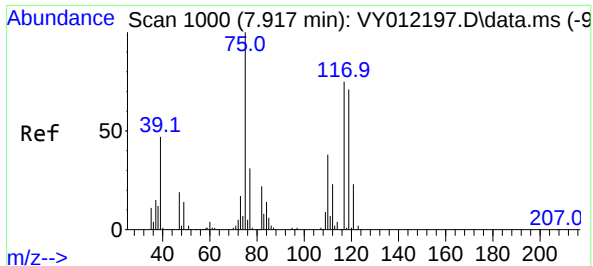
Ion Ratio Lower Upper

113 100

111 104.2 83.0 124.4

192 22.6 16.0 24.0





#36

1,1-Dichloropropene

Concen: 4.444 ug/l

RT: 7.789 min Scan# 91

Delta R.T. -0.128 min

Lab File: VY012401.D

Acq: 30 Jan 2023 16:35

Instrument :

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ClientSampleId :

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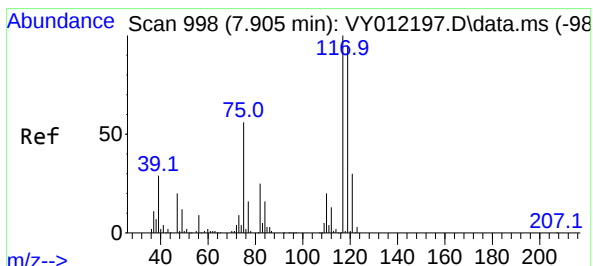
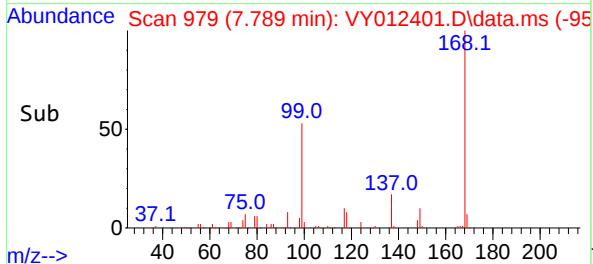
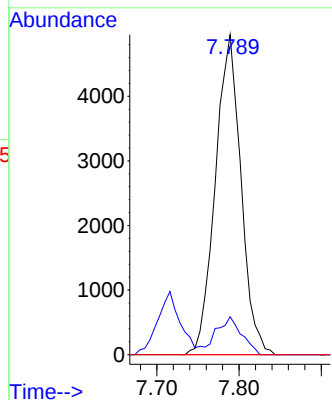
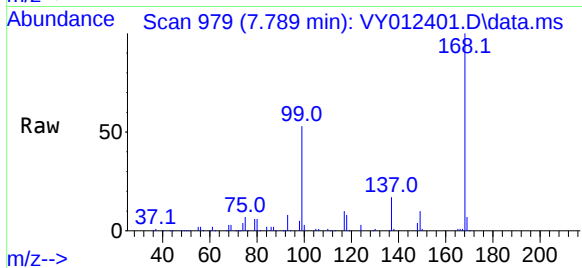
Tgt Ion: 75 Resp: 10756

Ion Ratio Lower Upper

75 100

110 11.4 18.1 54.1#

77 0.0 25.1 37.7#



#38

Carbon Tetrachloride

Concen: 5.024 ug/l

RT: 7.789 min Scan# 979

Delta R.T. -0.110 min

Lab File: VY012401.D

Acq: 30 Jan 2023 16:35

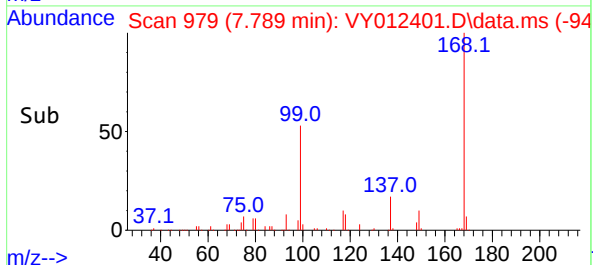
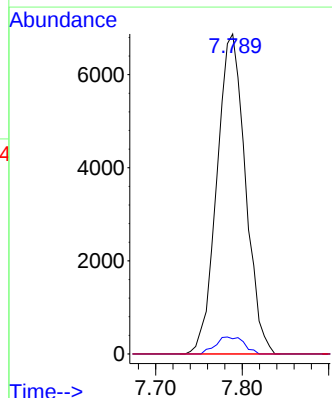
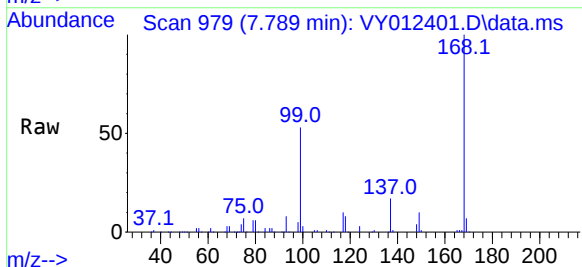
Tgt Ion: 117 Resp: 15707

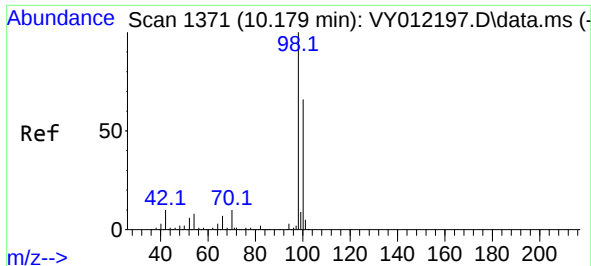
Ion Ratio Lower Upper

117 100

119 4.8 73.8 110.8#

121 0.0 25.2 37.8#

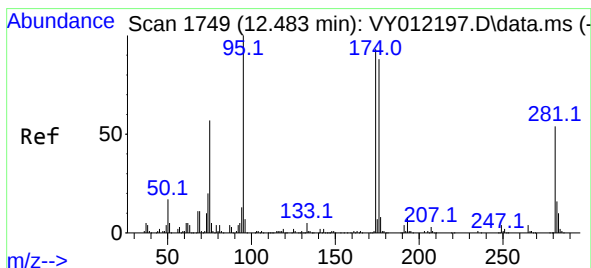
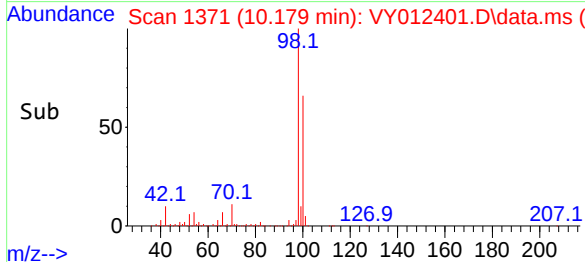
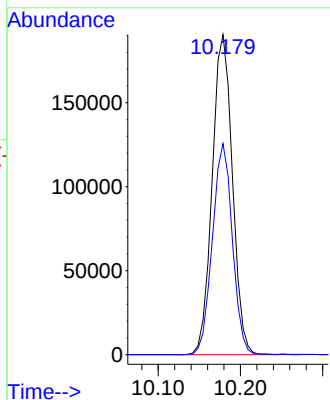
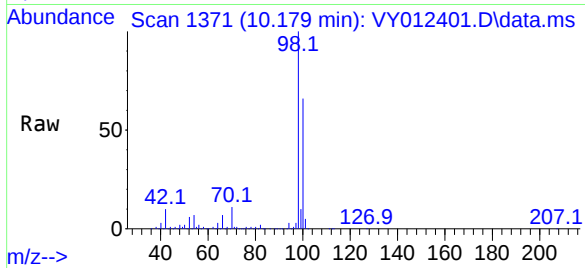




#50  
Toluene-d8  
Concen: 67.446 ug/l  
RT: 10.179 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VY012401.D  
Acq: 30 Jan 2023 16:35

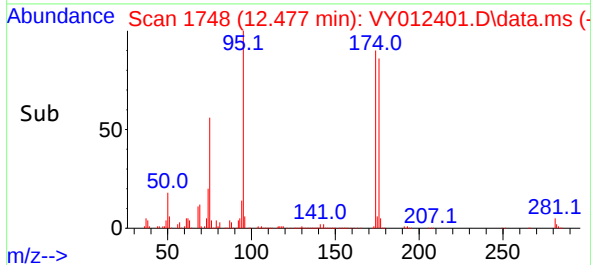
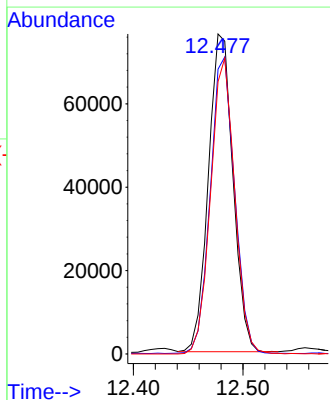
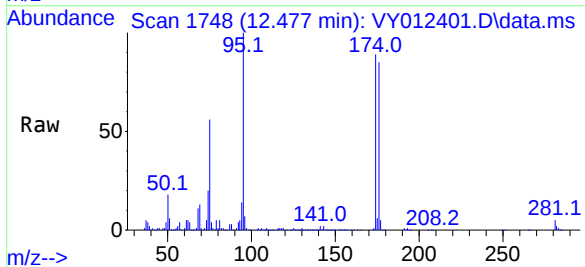
Instrument :  
MSVOA\_Y  
ClientSampleId :  
JPP-5-012723

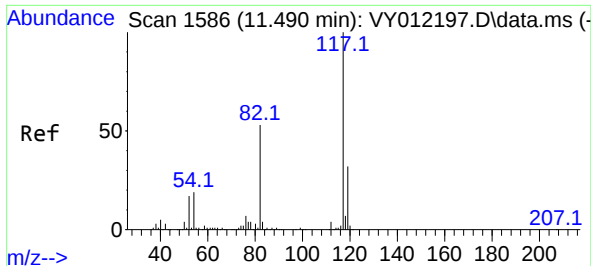
Tgt Ion: 98 Resp: 325367  
Ion Ratio Lower Upper  
98 100  
100 65.1 51.9 77.9



#62  
4-Bromofluorobenzene  
Concen: 59.160 ug/l  
RT: 12.477 min Scan# 1748  
Delta R.T. -0.006 min  
Lab File: VY012401.D  
Acq: 30 Jan 2023 16:35

Tgt Ion: 95 Resp: 118778  
Ion Ratio Lower Upper  
95 100  
174 92.5 0.0 172.0  
176 91.2 0.0 167.6

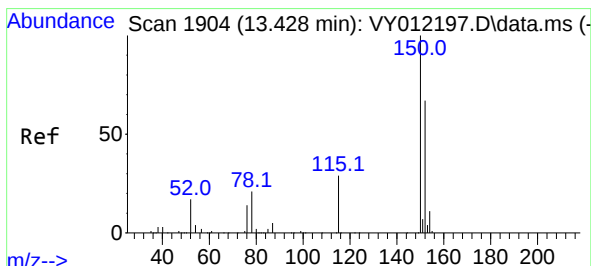
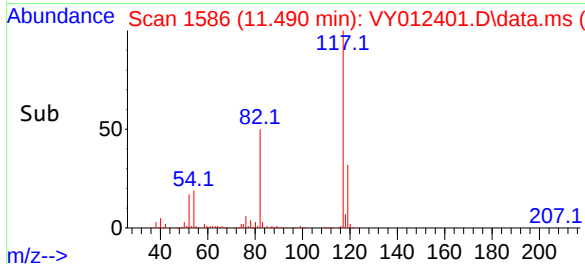
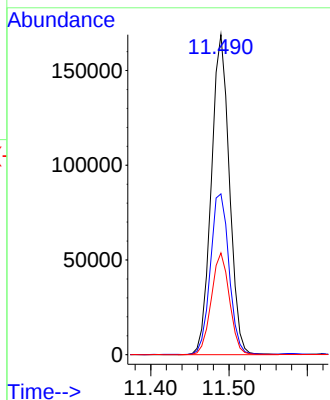
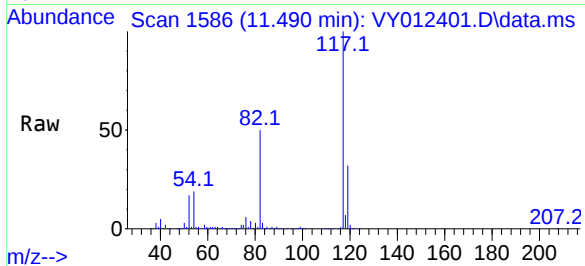




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.490 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VY012401.D  
Acq: 30 Jan 2023 16:35

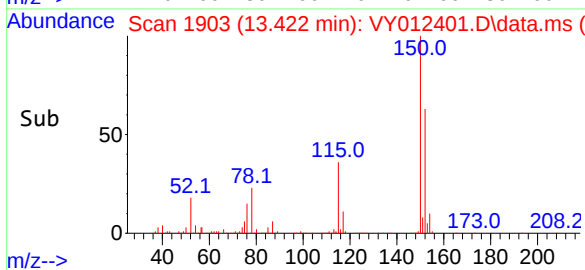
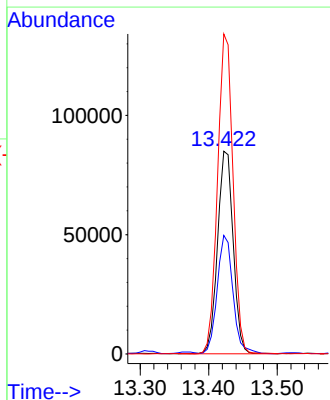
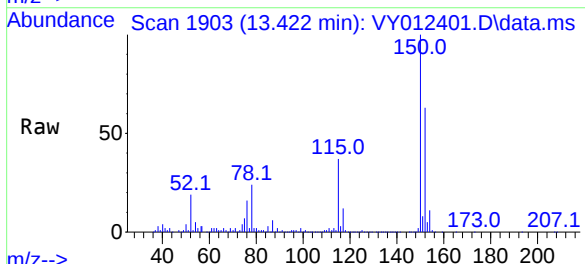
Instrument :  
MSVOA\_Y  
ClientSampleId :  
JPP-5-012723

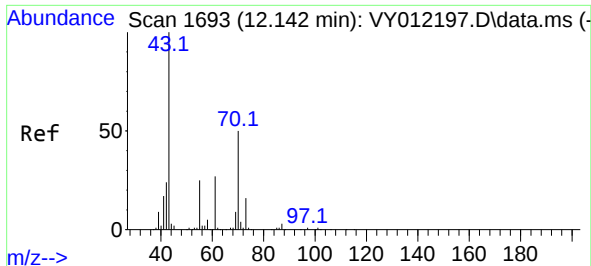
Tgt Ion:117 Resp: 270910  
Ion Ratio Lower Upper  
117 100  
82 50.2 44.8 67.2  
119 31.8 25.4 38.2



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.422 min Scan# 1903  
Delta R.T. 0.000 min  
Lab File: VY012401.D  
Acq: 30 Jan 2023 16:35

Tgt Ion:152 Resp: 134002  
Ion Ratio Lower Upper  
152 100  
115 58.8 29.1 87.3  
150 156.5 0.0 342.6



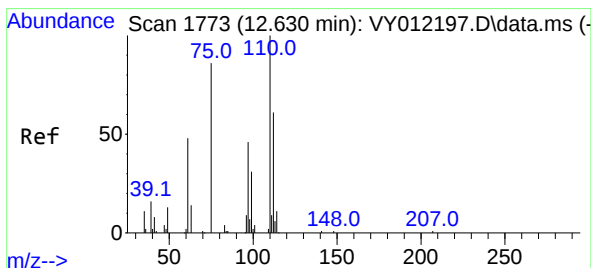
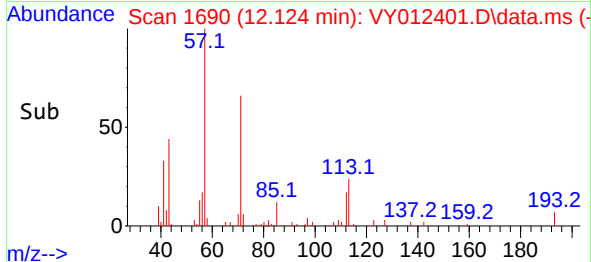
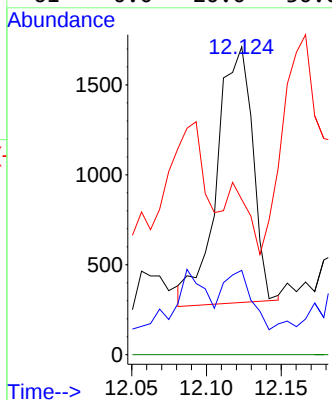
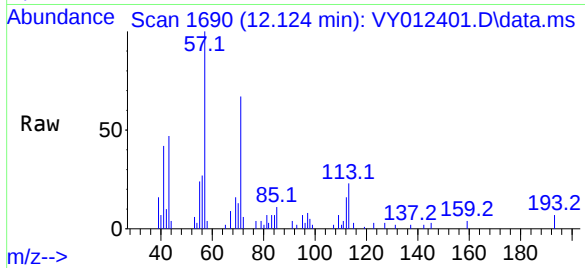


#74  
N-amy1 acetate  
Concen: 1.252 ug/l  
RT: 12.124 min Scan# 1  
Delta R.T. -0.018 min  
Lab File: VY012401.D  
Acq: 30 Jan 2023 16:35

Instrument :  
MSVOA\_Y  
ClientSampleId :  
JPP-5-012723

Tgt Ion: 43 Resp: 2371

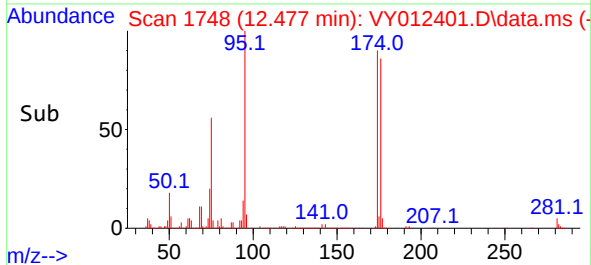
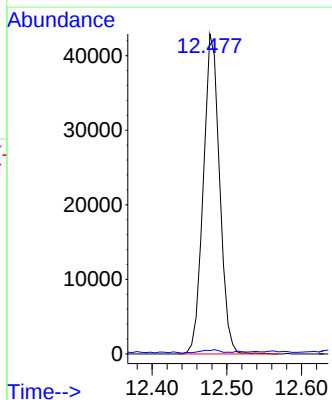
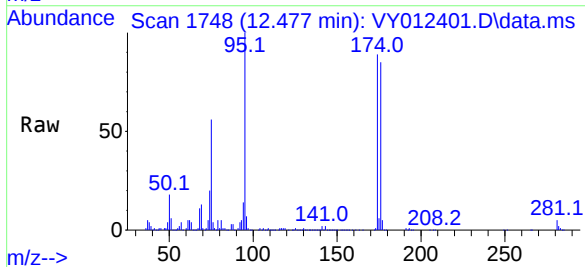
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 70  | 15.0  | 35.8  | 53.8# |
| 55  | 0.0   | 21.0  | 31.4# |
| 61  | 0.0   | 20.0  | 30.0# |

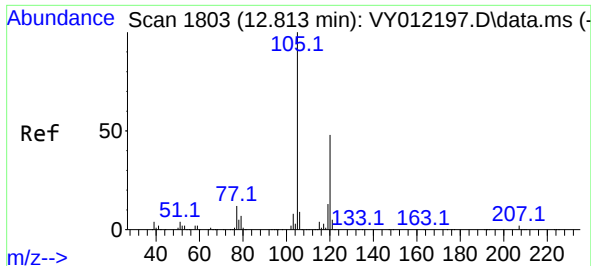


#76  
1,2,3-Trichloropropane  
Concen: 52.591 ug/l  
RT: 12.477 min Scan# 1748  
Delta R.T. -0.153 min  
Lab File: VY012401.D  
Acq: 30 Jan 2023 16:35

Tgt Ion: 75 Resp: 64802

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 75  | 100   |       |       |
| 77  | 1.4   | 0.0   | 0.0#  |

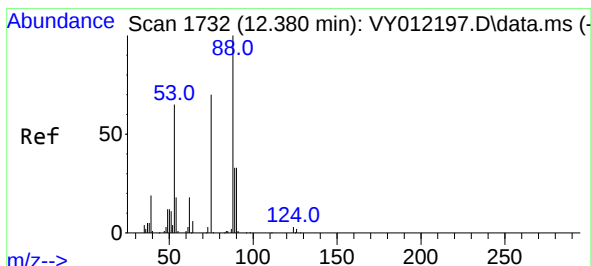
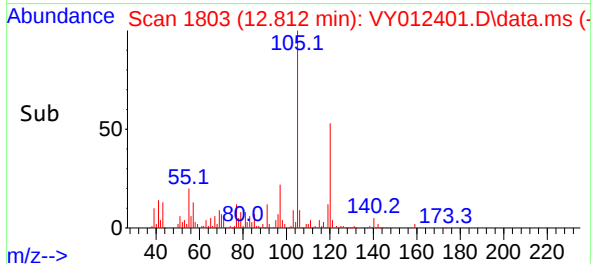
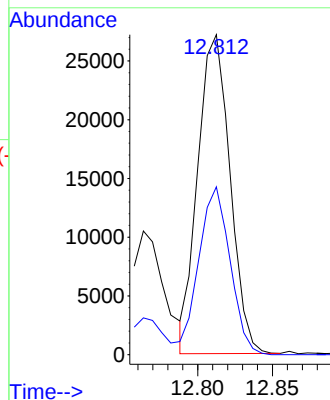
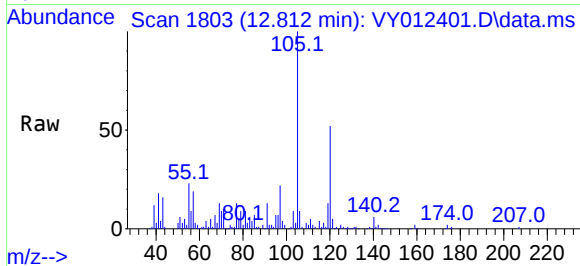




#80  
1,3,5-Trimethylbenzene  
Concen: 4.832 ug/l  
RT: 12.812 min Scan# 11  
Delta R.T. -0.001 min  
Lab File: VY012401.D  
Acq: 30 Jan 2023 16:35

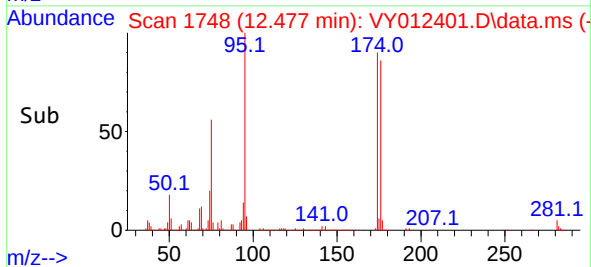
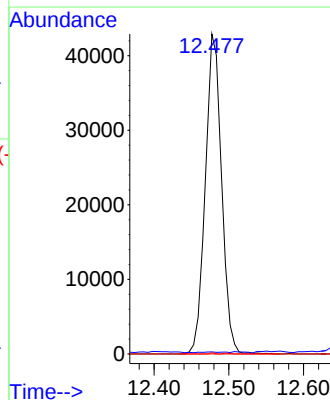
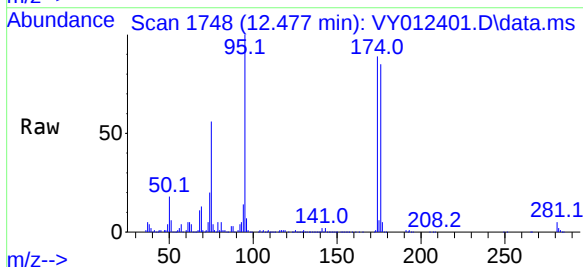
Instrument :  
MSVOA\_Y  
ClientSampleId :  
JPP-5-012723

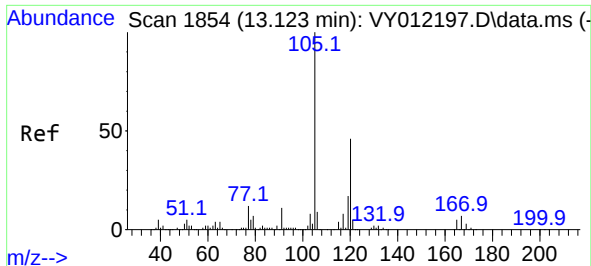
Tgt Ion:105 Resp: 40590  
Ion Ratio Lower Upper  
105 100  
120 51.8 24.2 72.6



#81  
trans-1,4-Dichloro-2-butene  
Concen: 108.360 ug/l  
RT: 12.477 min Scan# 1748  
Delta R.T. 0.103 min  
Lab File: VY012401.D  
Acq: 30 Jan 2023 16:35

Tgt Ion: 75 Resp: 64802  
Ion Ratio Lower Upper  
75 100  
53 0.2 72.5 108.7#  
89 0.1 37.0 55.4#

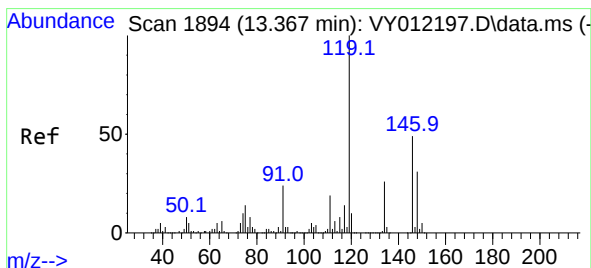
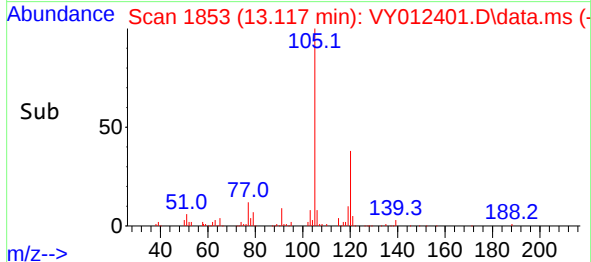
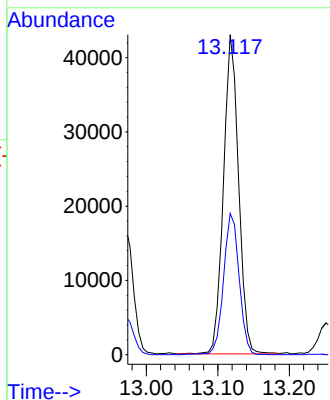
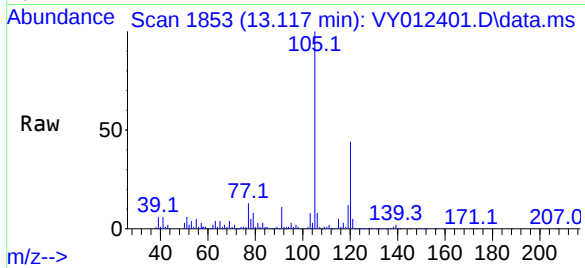




#84  
1,2,4-Trimethylbenzene  
Concen: 7.627 ug/l  
RT: 13.117 min Scan# 1853  
Delta R.T. 0.000 min  
Lab File: VY012401.D  
Acq: 30 Jan 2023 16:35

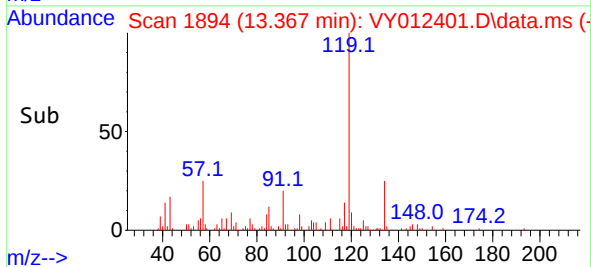
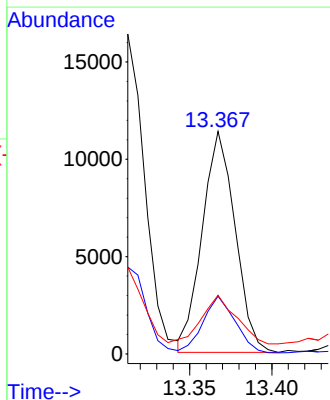
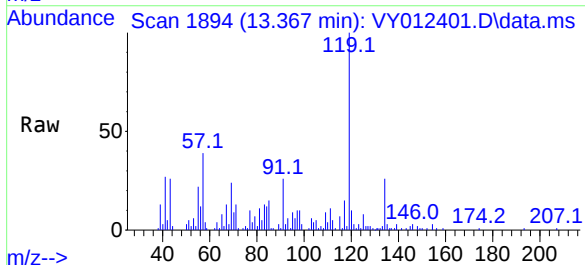
Instrument :  
MSVOA\_Y  
ClientSampleId :  
JPP-5-012723

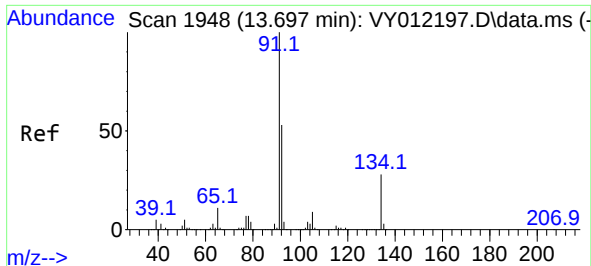
Tgt Ion:105 Resp: 63182  
Ion Ratio Lower Upper  
105 100  
120 45.6 22.9 68.7



#86  
p-Isopropyltoluene  
Concen: 1.735 ug/l  
RT: 13.367 min Scan# 1894  
Delta R.T. 0.000 min  
Lab File: VY012401.D  
Acq: 30 Jan 2023 16:35

Tgt Ion:119 Resp: 15805  
Ion Ratio Lower Upper  
119 100  
134 25.0 13.0 39.0  
91 23.0 11.9 35.9

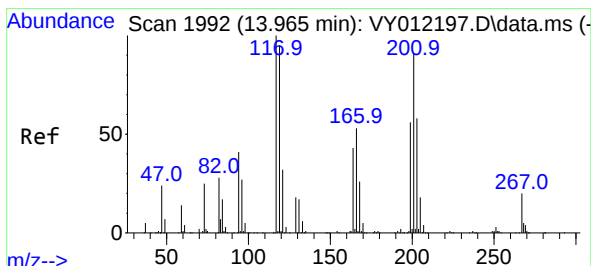
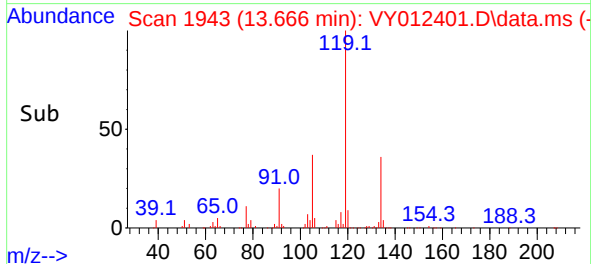
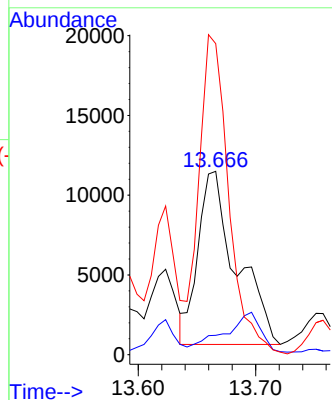
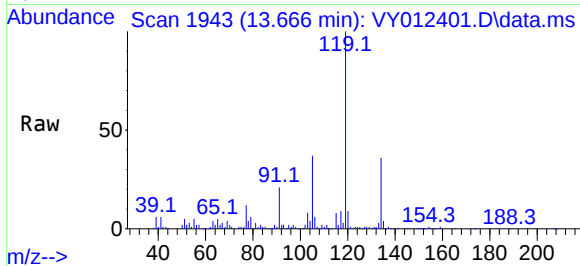




#89  
n-Butylbenzene  
Concen: 3.124 ug/l  
RT: 13.666 min Scan# 1943  
Delta R.T. -0.031 min  
Lab File: VY012401.D  
Acq: 30 Jan 2023 16:35

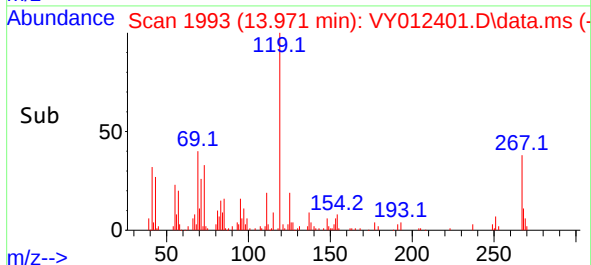
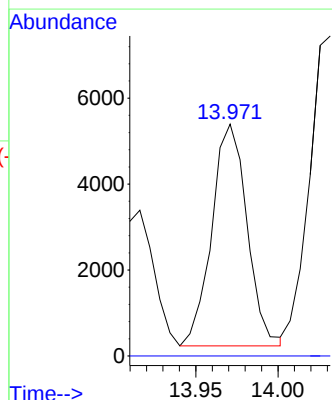
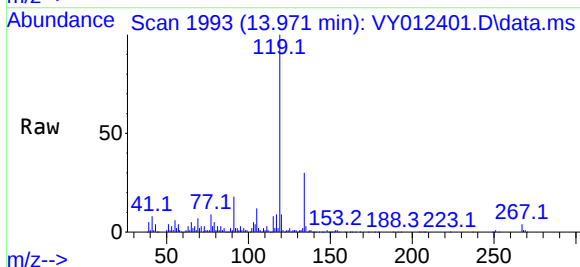
Instrument :  
MSVOA\_Y  
ClientSampleId :  
JPP-5-012723

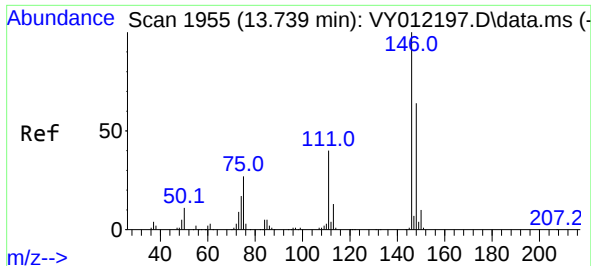
Tgt Ion: 91 Resp: 24659  
Ion Ratio Lower Upper  
91 100  
92 0.0 26.8 80.4#  
134 140.2 13.3 39.8#



#90  
Hexachloroethane  
Concen: 4.677 ug/l  
RT: 13.971 min Scan# 1993  
Delta R.T. 0.012 min  
Lab File: VY012401.D  
Acq: 30 Jan 2023 16:35

Tgt Ion: 117 Resp: 7690  
Ion Ratio Lower Upper  
117 100  
201 0.0 40.3 120.8#

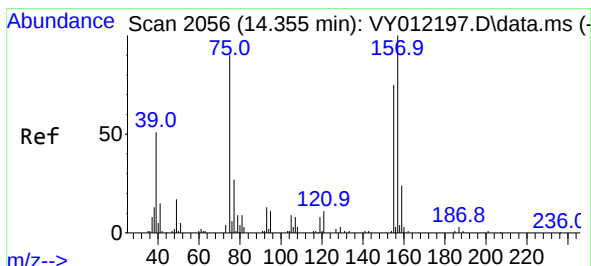
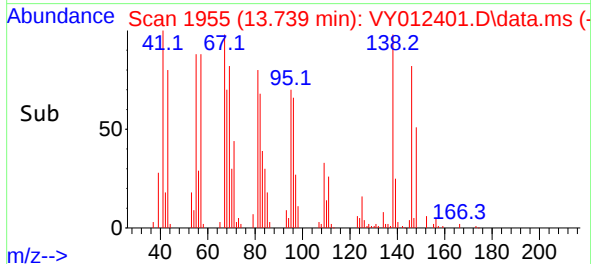
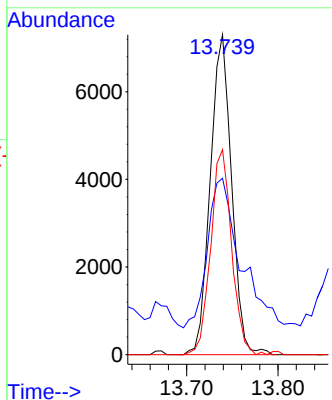
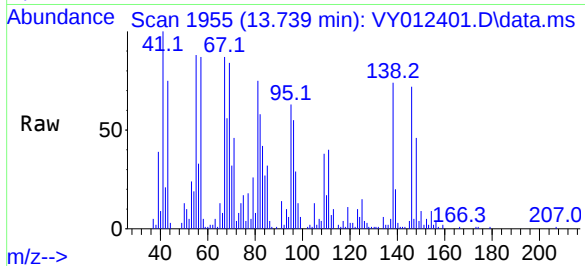




#91  
1,2-Dichlorobenzene  
Concen: 2.867 ug/l  
RT: 13.739 min Scan# 1955  
Delta R.T. 0.000 min  
Lab File: VY012401.D  
Acq: 30 Jan 2023 16:35

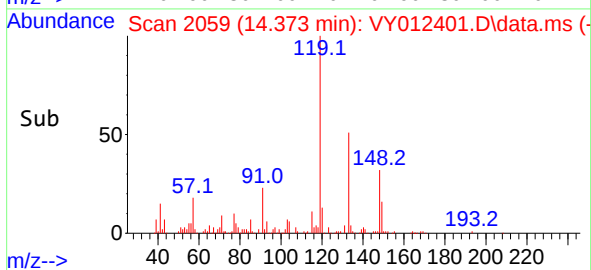
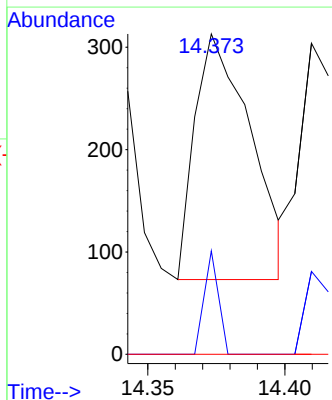
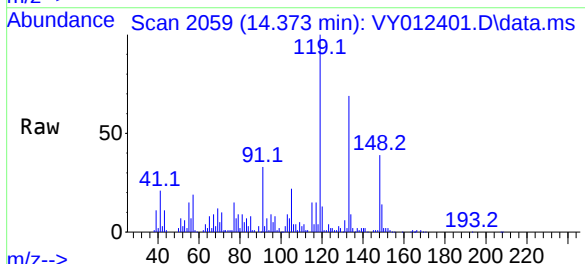
Instrument :  
MSVOA\_Y  
ClientSampleId :  
JPP-5-012723

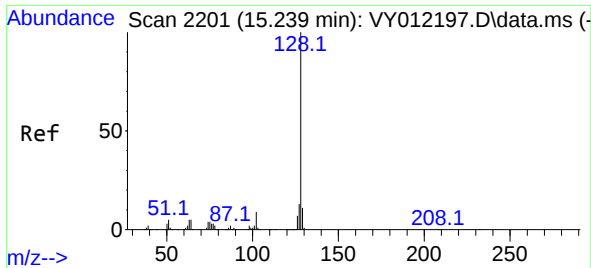
Tgt Ion:146 Resp: 11828  
Ion Ratio Lower Upper  
146 100  
111 77.2 20.3 60.8#  
148 63.1 31.8 95.4



#92  
1,2-Dibromo-3-Chloropropane  
Concen: 1.084 ug/l  
RT: 14.373 min Scan# 2059  
Delta R.T. 0.018 min  
Lab File: VY012401.D  
Acq: 30 Jan 2023 16:35

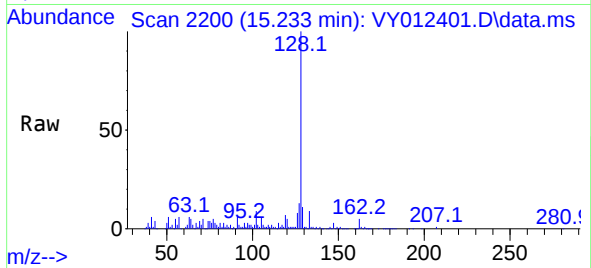
Tgt Ion: 75 Resp: 341  
Ion Ratio Lower Upper  
75 100  
155 10.9 42.3 126.8#  
157 0.0 54.4 163.3#





#95  
Naphthalene  
Concen: 20.036 ug/l  
RT: 15.233 min Scan# 21  
Delta R.T. -0.000 min  
Lab File: VY012401.D  
Acq: 30 Jan 2023 16:35

Instrument :  
MSVOA\_Y  
ClientSampleId :  
JPP-5-012723



Tgt Ion:128 Resp: 104556  
Ion Ratio Lower Upper  
128 100  
127 13.3 10.2 15.2  
129 12.4 8.8 13.2

