

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY022124\  
 Data File : VY017435.D  
 Acq On : 21 Feb 2024 14:08  
 Operator : SY/MD  
 Sample : P1537-02  
 Misc : 4.86g/5.0mL/MSVOA\_Y/SOIL/A  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 2

Quant Time: Feb 22 03:25:35 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y021924S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Feb 20 06:16:24 2024  
 Response via : Initial Calibration

| Compound                   | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|--------|------|----------|--------|-------|----------|
| -----                      |        |      |          |        |       |          |
| Internal Standards         |        |      |          |        |       |          |
| 1) Pentafluorobenzene      | 7.807  | 168  | 36609    | 50.000 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.710  | 114  | 62361    | 50.000 | ug/l  | 0.01     |
| 63) Chlorobenzene-d5       | 11.502 | 117  | 51520    | 50.000 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.434 | 152  | 15512    | 50.000 | ug/l  | 0.00     |

|                             |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| System Monitoring Compounds |        |       |          |          |      |         |
| 33) 1,2-Dichloroethane-d4   | 8.161  | 65    | 14264    | 45.609   | ug/l | 0.01    |
| Spiked Amount               | 50.000 | Range | 50 - 163 | Recovery | =    | 91.220% |
| 35) Dibromofluoromethane    | 7.734  | 113   | 17027    | 46.644   | ug/l | 0.00    |
| Spiked Amount               | 50.000 | Range | 54 - 147 | Recovery | =    | 93.280% |
| 50) Toluene-d8              | 10.191 | 98    | 52485    | 37.072   | ug/l | 0.00    |
| Spiked Amount               | 50.000 | Range | 58 - 134 | Recovery | =    | 74.140% |
| 62) 4-Bromofluorobenzene    | 12.489 | 95    | 11643    | 25.534   | ug/l | 0.00    |
| Spiked Amount               | 50.000 | Range | 30 - 143 | Recovery | =    | 51.060% |

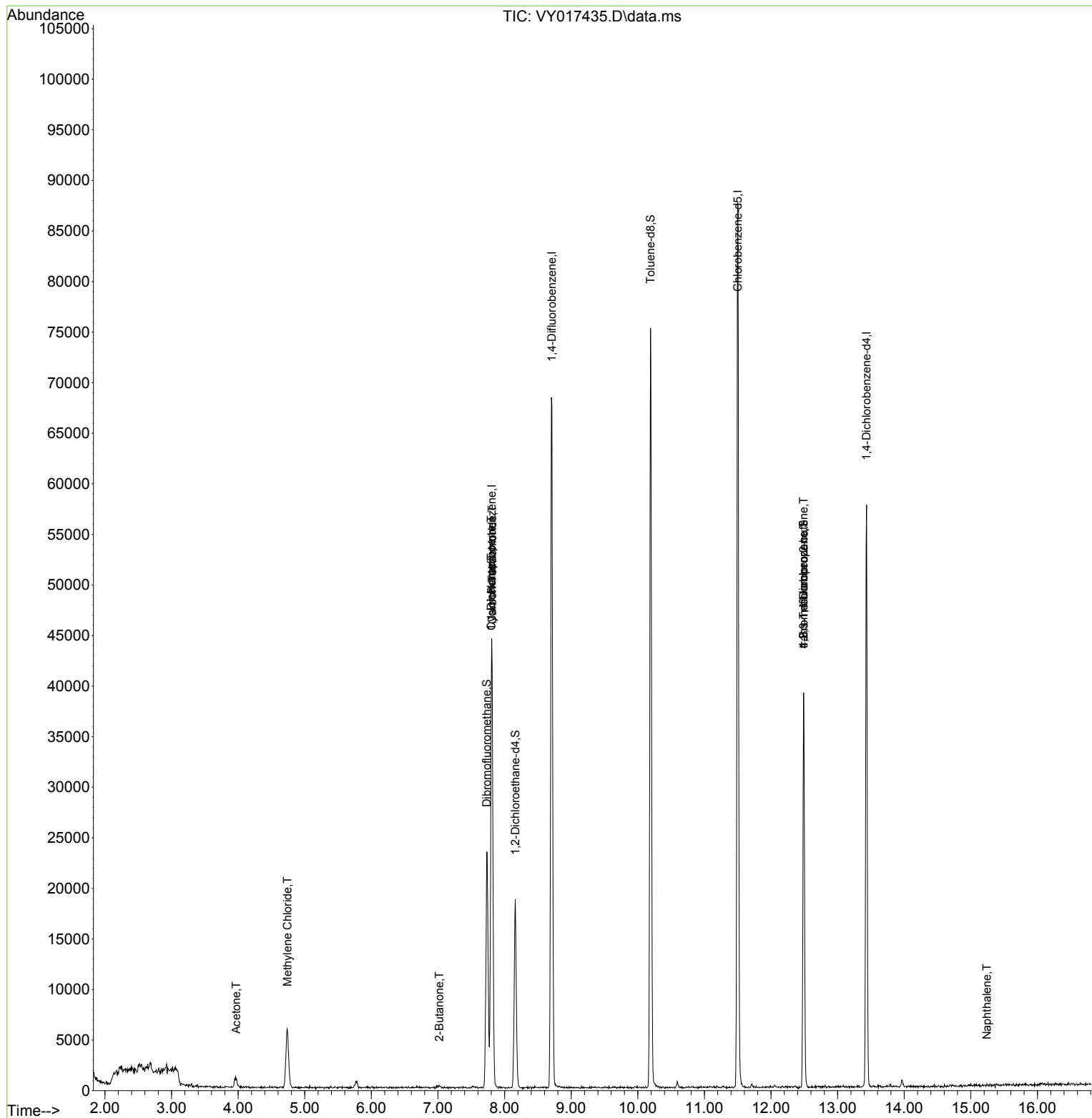
| Target Compounds              |        |     |      |           | Qvalue |     |
|-------------------------------|--------|-----|------|-----------|--------|-----|
| 5) Bromomethane               | 2.680  | 94  | 367  | Below Cal | #      | 45  |
| 16) Acetone                   | 3.973  | 43  | 1791 | 26.443    | ug/l # | 79  |
| 20) Methylene Chloride        | 4.741  | 84  | 4414 | 5.172     | ug/l   | 94  |
| 25) 2-Butanone                | 7.021  | 43  | 420  | 4.418     | ug/l # | 41  |
| 31) Cyclohexane               | 7.801  | 56  | 770  | 1.244     | ug/l # | 1   |
| 36) 1,1-Dichloropropene       | 7.801  | 75  | 2804 | 4.599     | ug/l # | 46  |
| 38) Carbon Tetrachloride      | 7.813  | 117 | 3420 | 5.634     | ug/l # | 18  |
| 76) 1,2,3-Trichloropropane    | 12.489 | 75  | 6307 | 41.934    | ug/l # | 100 |
| 81) trans-1,4-Dichloro-2-b... | 12.489 | 75  | 6307 | 97.771    | ug/l # | 16  |
| 95) Naphthalene               | 15.239 | 128 | 153  | 3.846     | ug/l # | 69  |

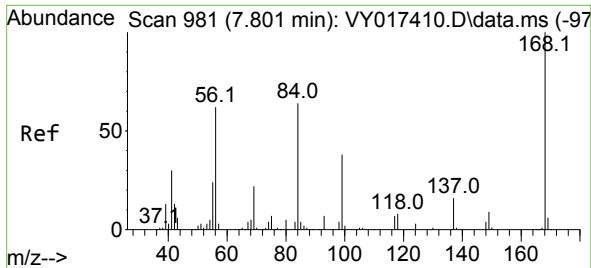
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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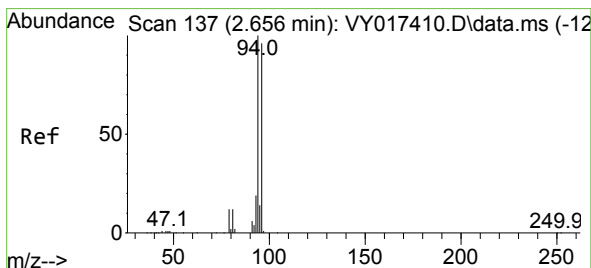
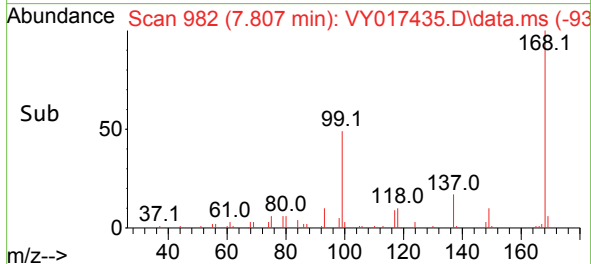
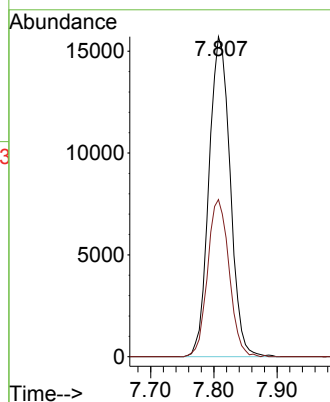
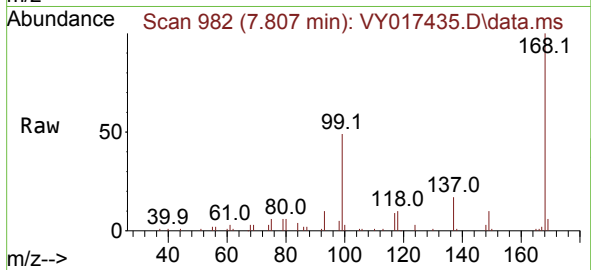




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.807 min Scan# 91  
Delta R.T. 0.006 min  
Lab File: VY017435.D  
Acq: 21 Feb 2024 14:08

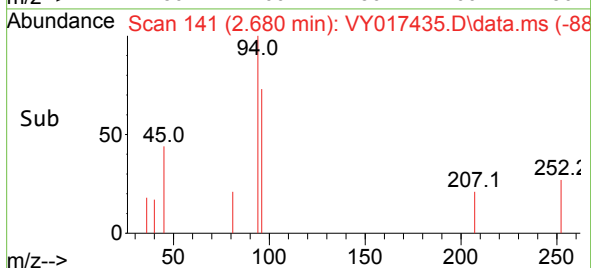
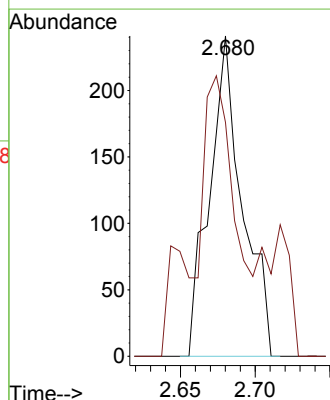
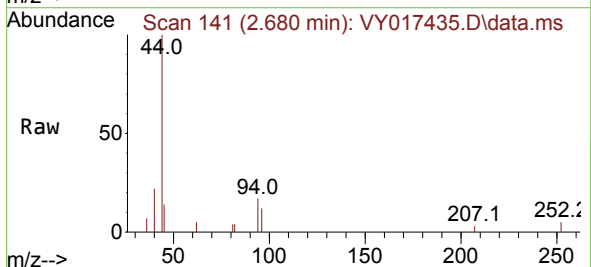
Instrument :  
MSVOA\_Y  
ClientSampleId :  
2

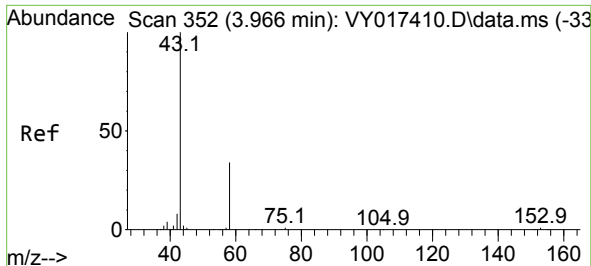
Tgt Ion:168 Resp: 36609  
Ion Ratio Lower Upper  
168 100  
99 49.1 39.1 58.7



#5  
Bromomethane  
Concen: Below Cal  
RT: 2.680 min Scan# 141  
Delta R.T. 0.024 min  
Lab File: VY017435.D  
Acq: 21 Feb 2024 14:08

Tgt Ion: 94 Resp: 367  
Ion Ratio Lower Upper  
94 100  
96 40.2 74.1 111.1#

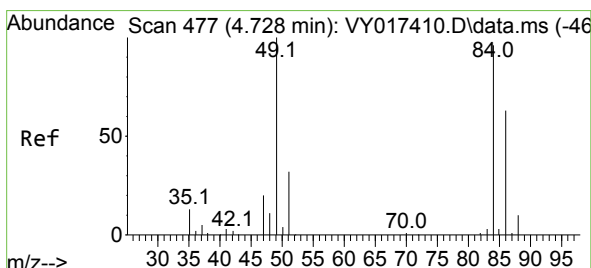
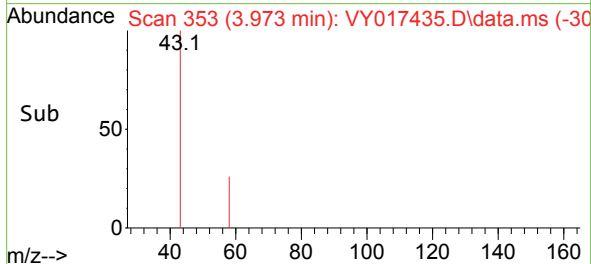
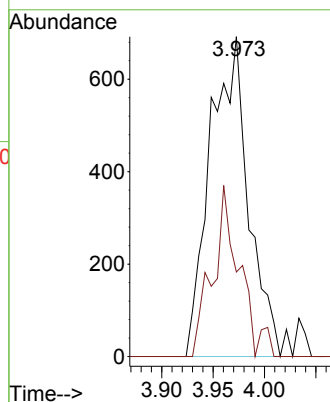
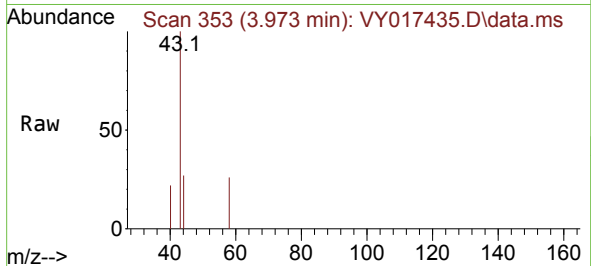




#16  
Acetone  
Concen: 26.443 ug/l  
RT: 3.973 min Scan# 31  
Delta R.T. 0.006 min  
Lab File: VY017435.D  
Acq: 21 Feb 2024 14:08

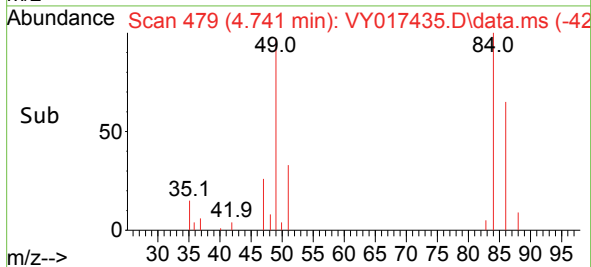
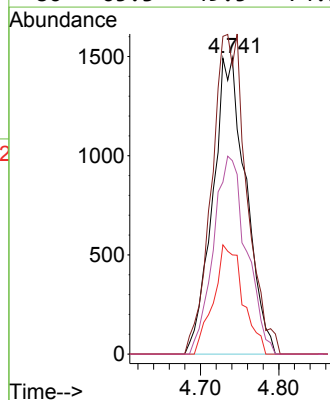
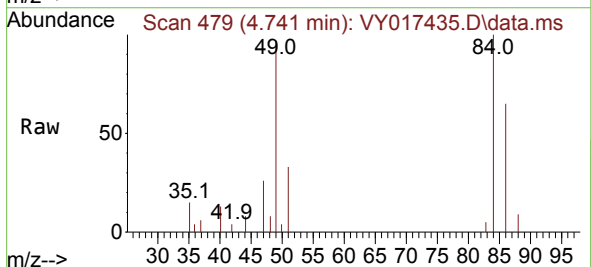
Instrument :  
MSVOA\_Y  
ClientSampleId :  
2

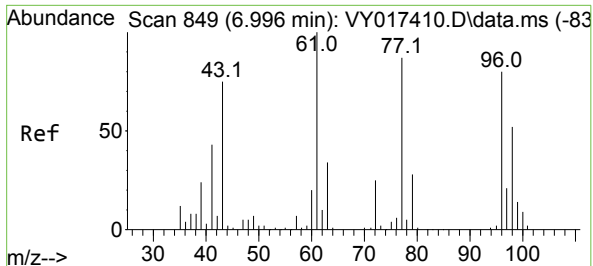
Tgt Ion: 43 Resp: 1791  
Ion Ratio Lower Upper  
43 100  
58 26.4 31.7 47.5#



#20  
Methylene Chloride  
Concen: 5.172 ug/l  
RT: 4.741 min Scan# 479  
Delta R.T. 0.013 min  
Lab File: VY017435.D  
Acq: 21 Feb 2024 14:08

Tgt Ion: 84 Resp: 4414  
Ion Ratio Lower Upper  
84 100  
49 97.4 84.4 126.6  
51 33.5 26.0 39.0  
86 65.3 49.5 74.3





#25

2-Butanone

Concen: 4.418 ug/l

RT: 7.021 min Scan# 81

Delta R.T. 0.024 min

Lab File: VY017435.D

Acq: 21 Feb 2024 14:08

Instrument :

MSVOA\_Y

ClientSampleId :

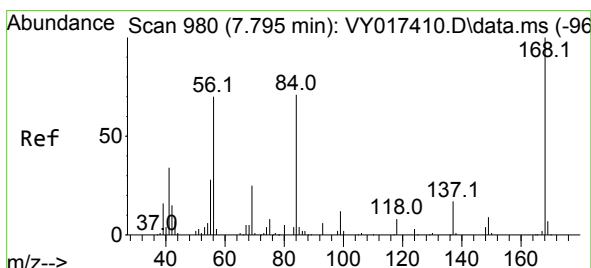
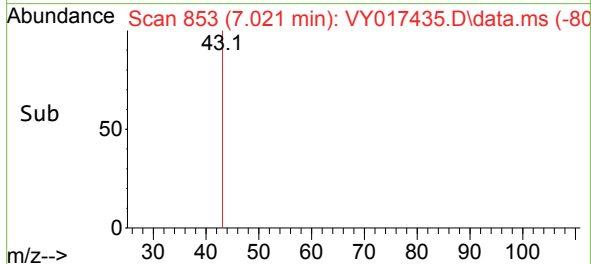
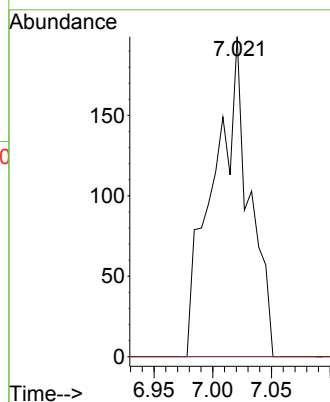
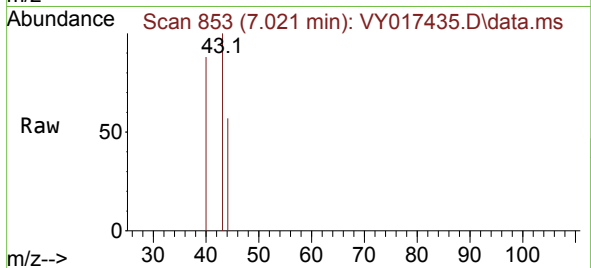
2

Tgt Ion: 43 Resp: 420

Ion Ratio Lower Upper

43 100

72 0.0 27.3 40.9#



#31

Cyclohexane

Concen: 1.244 ug/l

RT: 7.801 min Scan# 981

Delta R.T. 0.006 min

Lab File: VY017435.D

Acq: 21 Feb 2024 14:08

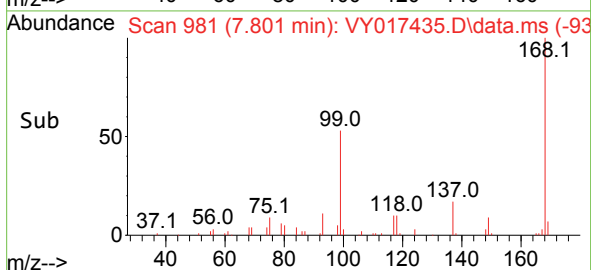
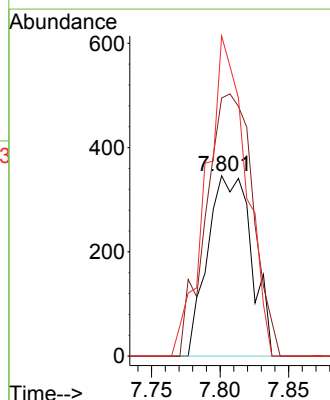
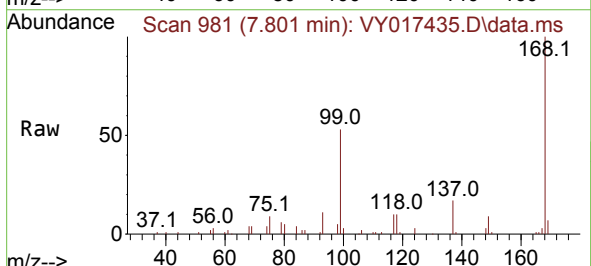
Tgt Ion: 56 Resp: 770

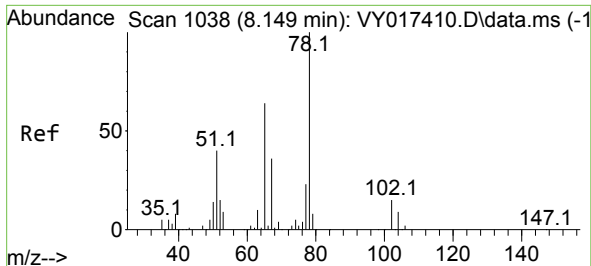
Ion Ratio Lower Upper

56 100

69 143.1 28.7 43.1#

84 177.5 77.7 116.5#





#33

1,2-Dichloroethane-d4

Concen: 45.609 ug/l

RT: 8.161 min Scan# 1130

Delta R.T. 0.012 min

Lab File: VY017435.D

Acq: 21 Feb 2024 14:08

Instrument :

MSVOA\_Y

ClientSampleId :

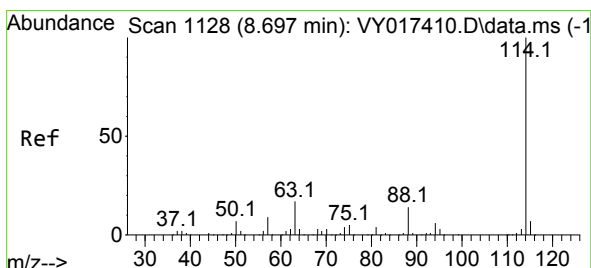
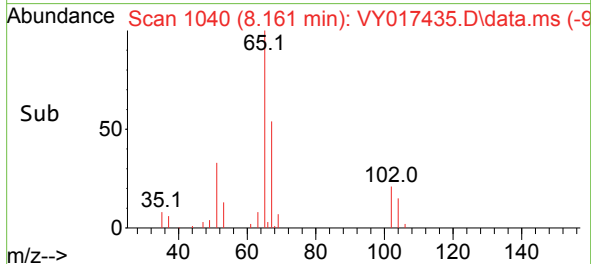
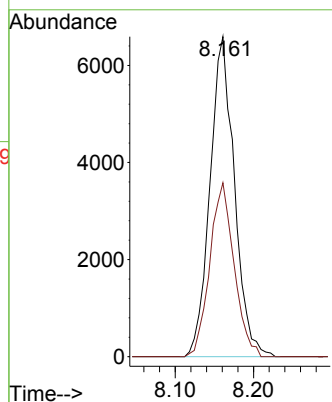
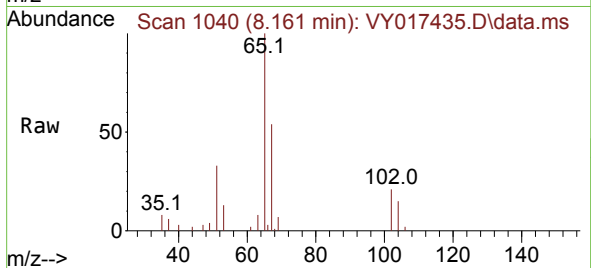
2

Tgt Ion: 65 Resp: 14264

Ion Ratio Lower Upper

65 100

67 54.0 0.0 109.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.710 min Scan# 1130

Delta R.T. 0.012 min

Lab File: VY017435.D

Acq: 21 Feb 2024 14:08

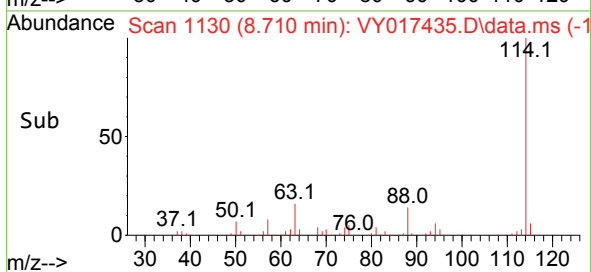
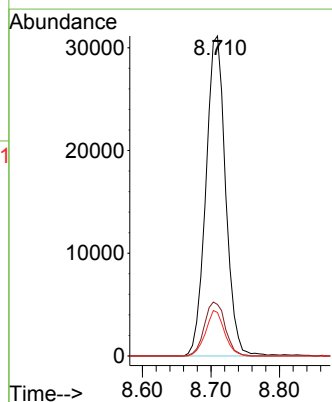
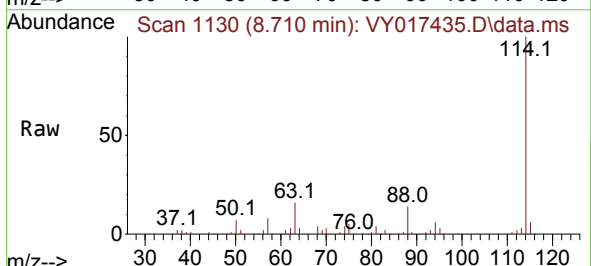
Tgt Ion: 114 Resp: 62361

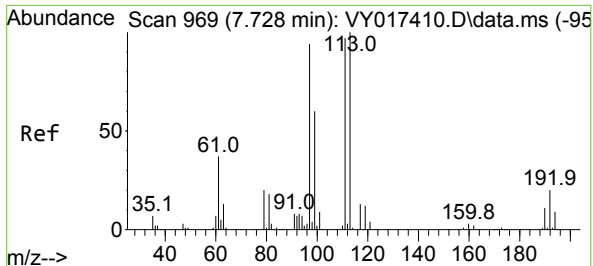
Ion Ratio Lower Upper

114 100

63 16.1 0.0 35.0

88 13.6 0.0 27.2





#35

Dibromofluoromethane

Concen: 46.644 ug/l

RT: 7.734 min Scan# 91

Delta R.T. 0.006 min

Lab File: VY017435.D

Acq: 21 Feb 2024 14:08

Instrument :

MSVOA\_Y

ClientSampleId :

2

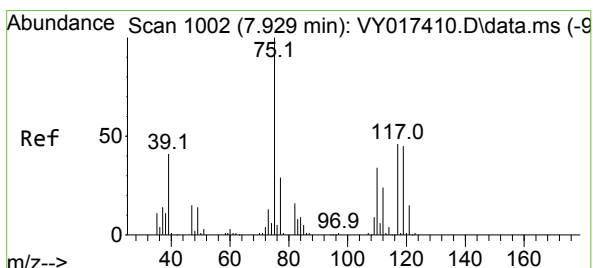
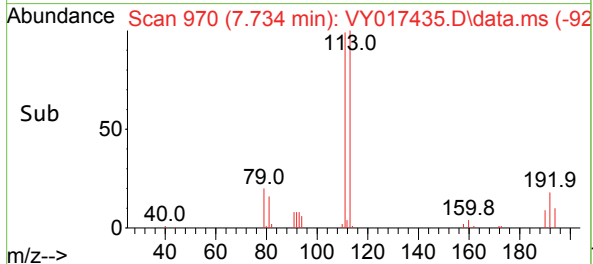
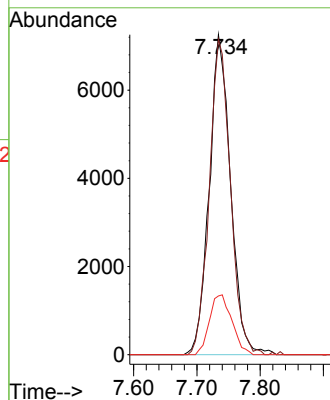
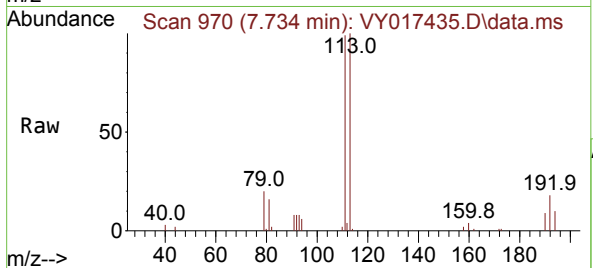
Tgt Ion:113 Resp: 17027

Ion Ratio Lower Upper

113 100

111 97.3 82.2 123.4

192 19.6 15.9 23.9



#36

1,1-Dichloropropene

Concen: 4.599 ug/l

RT: 7.801 min Scan# 981

Delta R.T. -0.128 min

Lab File: VY017435.D

Acq: 21 Feb 2024 14:08

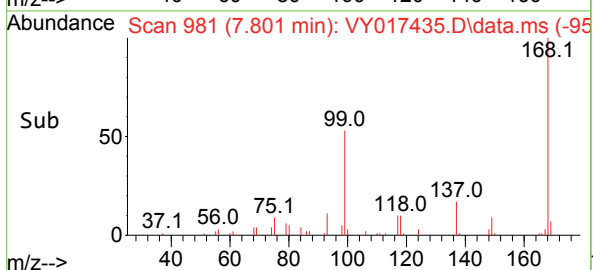
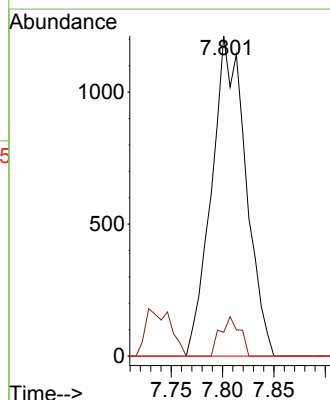
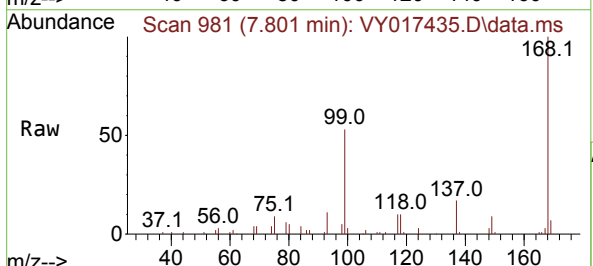
Tgt Ion: 75 Resp: 2804

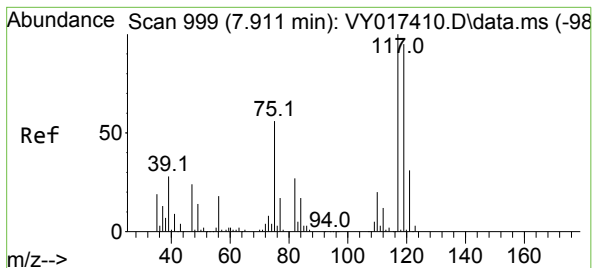
Ion Ratio Lower Upper

75 100

110 7.0 19.0 57.0#

77 0.0 25.3 37.9#





#38

Carbon Tetrachloride

Concen: 5.634 ug/l

RT: 7.813 min Scan# 91

Delta R.T. -0.097 min

Lab File: VY017435.D

Acq: 21 Feb 2024 14:08

Instrument :

MSVOA\_Y

ClientSampleId :

2

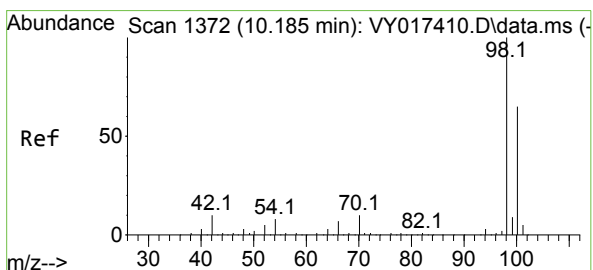
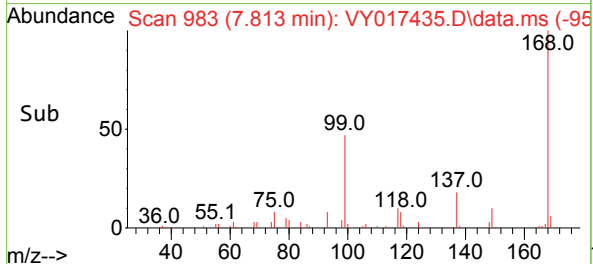
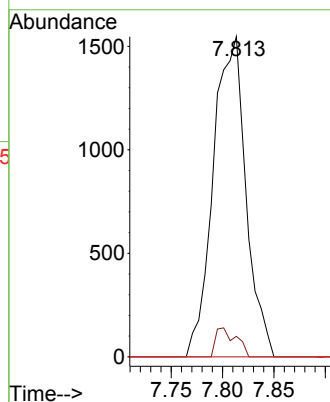
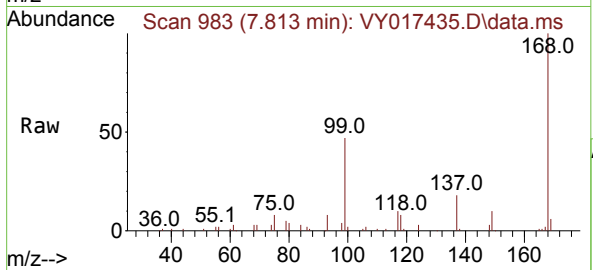
Tgt Ion:117 Resp: 3420

Ion Ratio Lower Upper

117 100

119 6.4 75.8 113.6#

121 0.0 24.0 36.0#



#50

Toluene-d8

Concen: 37.072 ug/l

RT: 10.191 min Scan# 1373

Delta R.T. 0.006 min

Lab File: VY017435.D

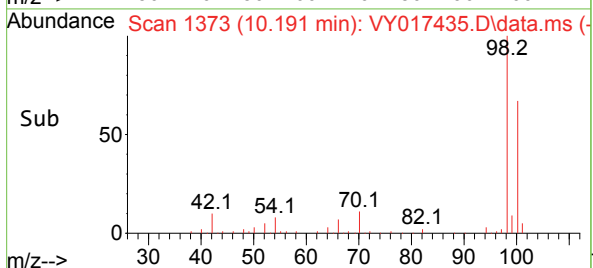
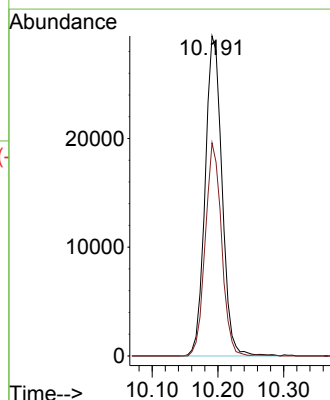
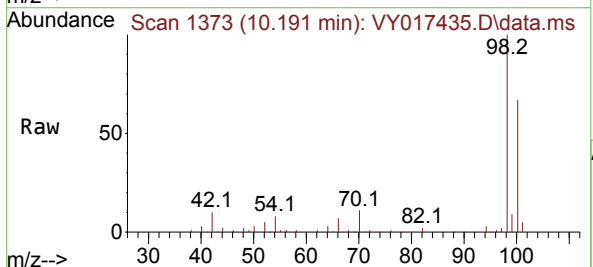
Acq: 21 Feb 2024 14:08

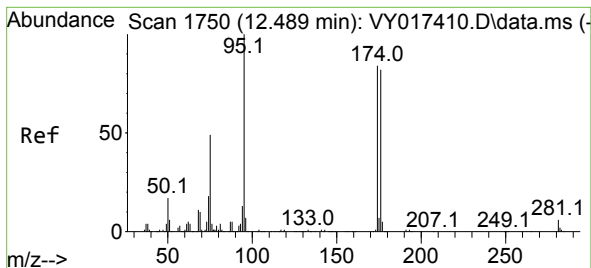
Tgt Ion: 98 Resp: 52485

Ion Ratio Lower Upper

98 100

100 64.3 52.0 78.0





#62

4-Bromofluorobenzene

Concen: 25.534 ug/l

RT: 12.489 min Scan# 1

Delta R.T. 0.000 min

Lab File: VY017435.D

Acq: 21 Feb 2024 14:08

Instrument :

MSVOA\_Y

ClientSampleId :

2

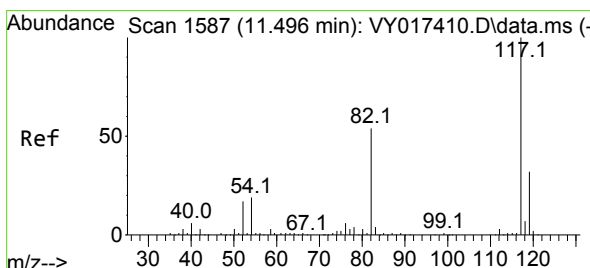
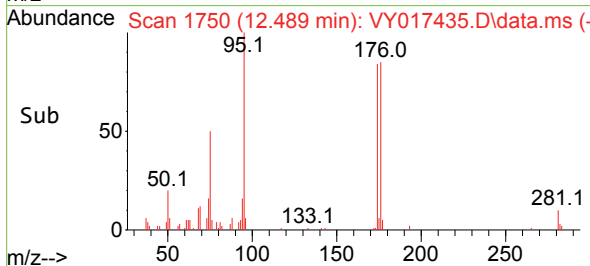
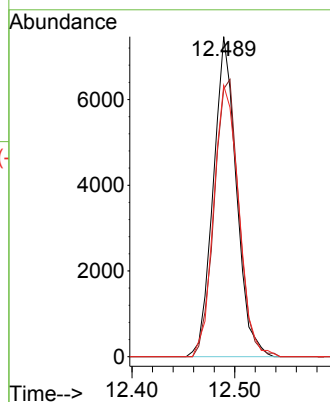
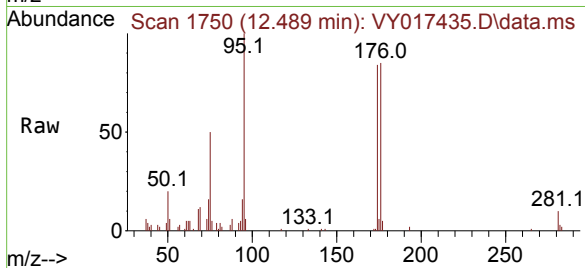
Tgt Ion: 95 Resp: 11643

Ion Ratio Lower Upper

95 100

174 92.6 0.0 175.6

176 92.1 0.0 171.4



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.502 min Scan# 1588

Delta R.T. 0.006 min

Lab File: VY017435.D

Acq: 21 Feb 2024 14:08

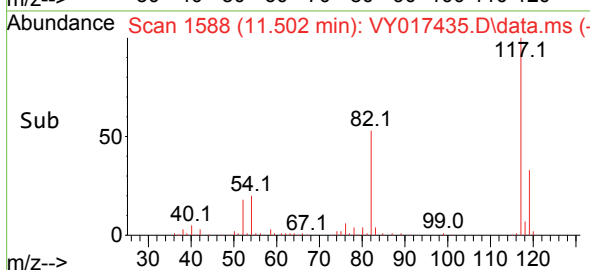
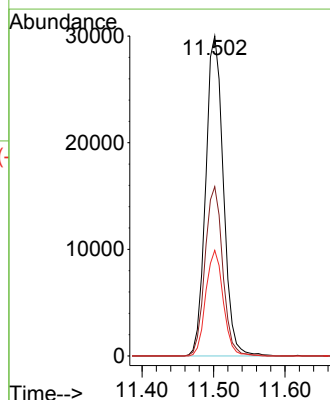
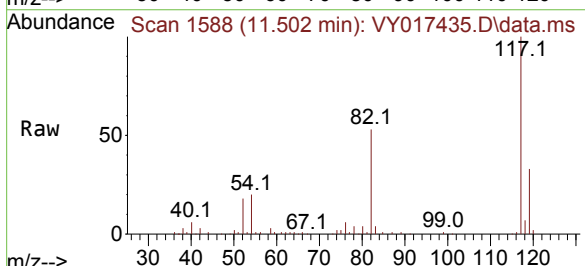
Tgt Ion: 117 Resp: 51520

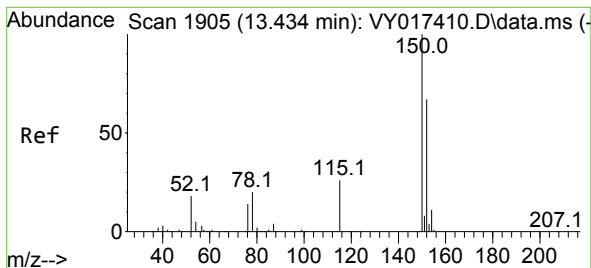
Ion Ratio Lower Upper

117 100

82 52.9 42.4 63.6

119 33.0 25.9 38.9





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.434 min Scan# 1905

Delta R.T. 0.000 min

Lab File: VY017435.D

Acq: 21 Feb 2024 14:08

Instrument :

MSVOA\_Y

ClientSampleId :

2

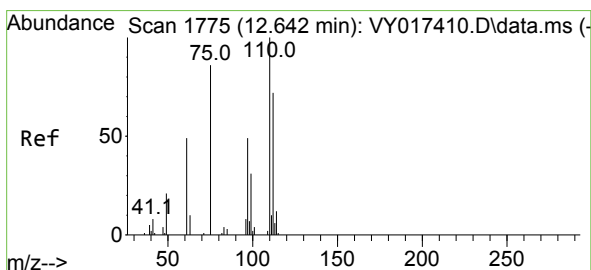
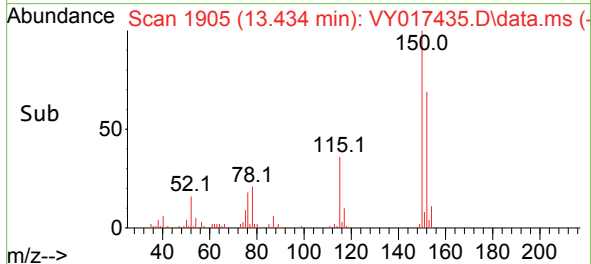
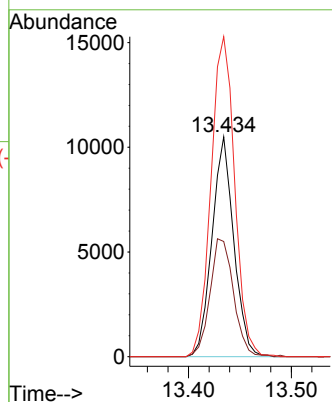
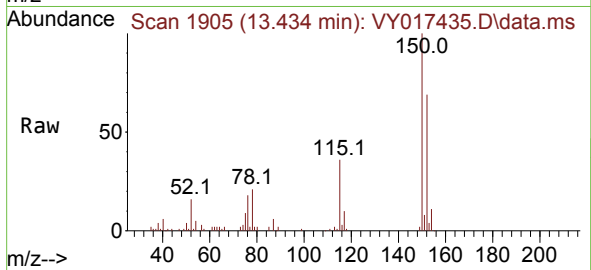
Tgt Ion:152 Resp: 15512

Ion Ratio Lower Upper

152 100

115 58.0 28.2 84.7

150 157.6 0.0 345.6



#76

1,2,3-Trichloropropane

Concen: 41.934 ug/l

RT: 12.489 min Scan# 1750

Delta R.T. -0.152 min

Lab File: VY017435.D

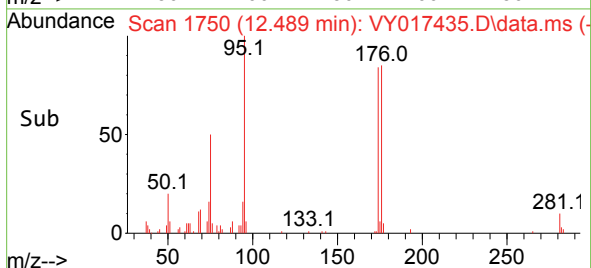
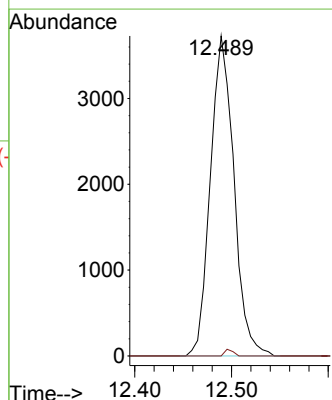
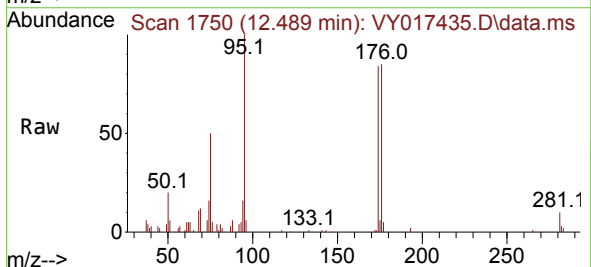
Acq: 21 Feb 2024 14:08

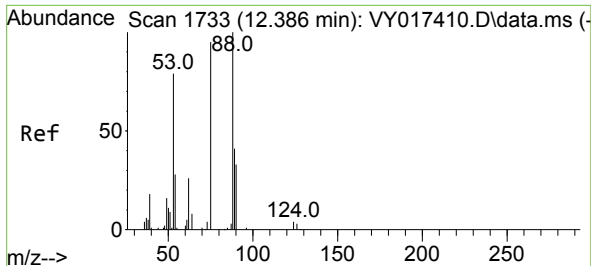
Tgt Ion: 75 Resp: 6307

Ion Ratio Lower Upper

75 100

77 0.7 0.0 0.0#

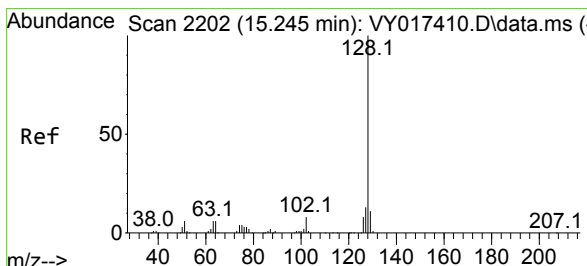
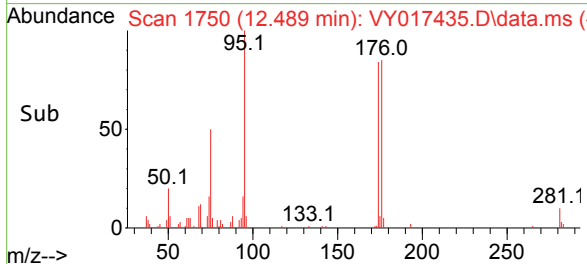
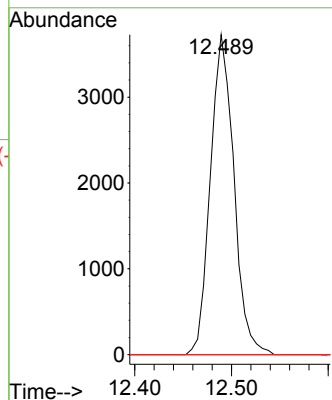
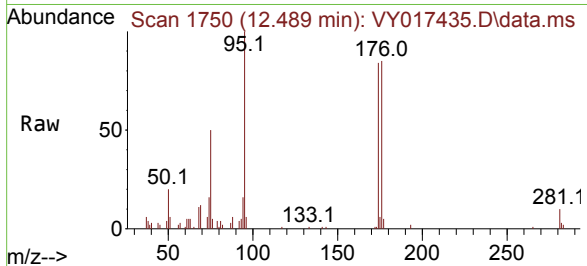




#81  
trans-1,4-Dichloro-2-butene  
Concen: 97.771 ug/l  
RT: 12.489 min Scan# 11  
Delta R.T. 0.104 min  
Lab File: VY017435.D  
Acq: 21 Feb 2024 14:08

Instrument :  
MSVOA\_Y  
ClientSampleId :  
2

Tgt Ion: 75 Resp: 6307  
Ion Ratio Lower Upper  
75 100  
53 0.0 66.8 100.2#  
89 0.0 35.8 53.6#



#95  
Naphthalene  
Concen: 3.846 ug/l  
RT: 15.239 min Scan# 2201  
Delta R.T. -0.006 min  
Lab File: VY017435.D  
Acq: 21 Feb 2024 14:08

Tgt Ion: 128 Resp: 153  
Ion Ratio Lower Upper  
128 100  
127 0.0 10.6 16.0#  
129 0.0 8.6 13.0#

