

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY022422\  
 Data File : VY007623.D  
 Acq On : 24 Feb 2022 17:27  
 Operator : SY/MD  
 Sample : N1584-09  
 Misc : 4.90g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 D14-5.5

Quant Time: Feb 25 05:43:28 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y022322S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Feb 24 07:13:58 2022  
 Response via : Initial Calibration

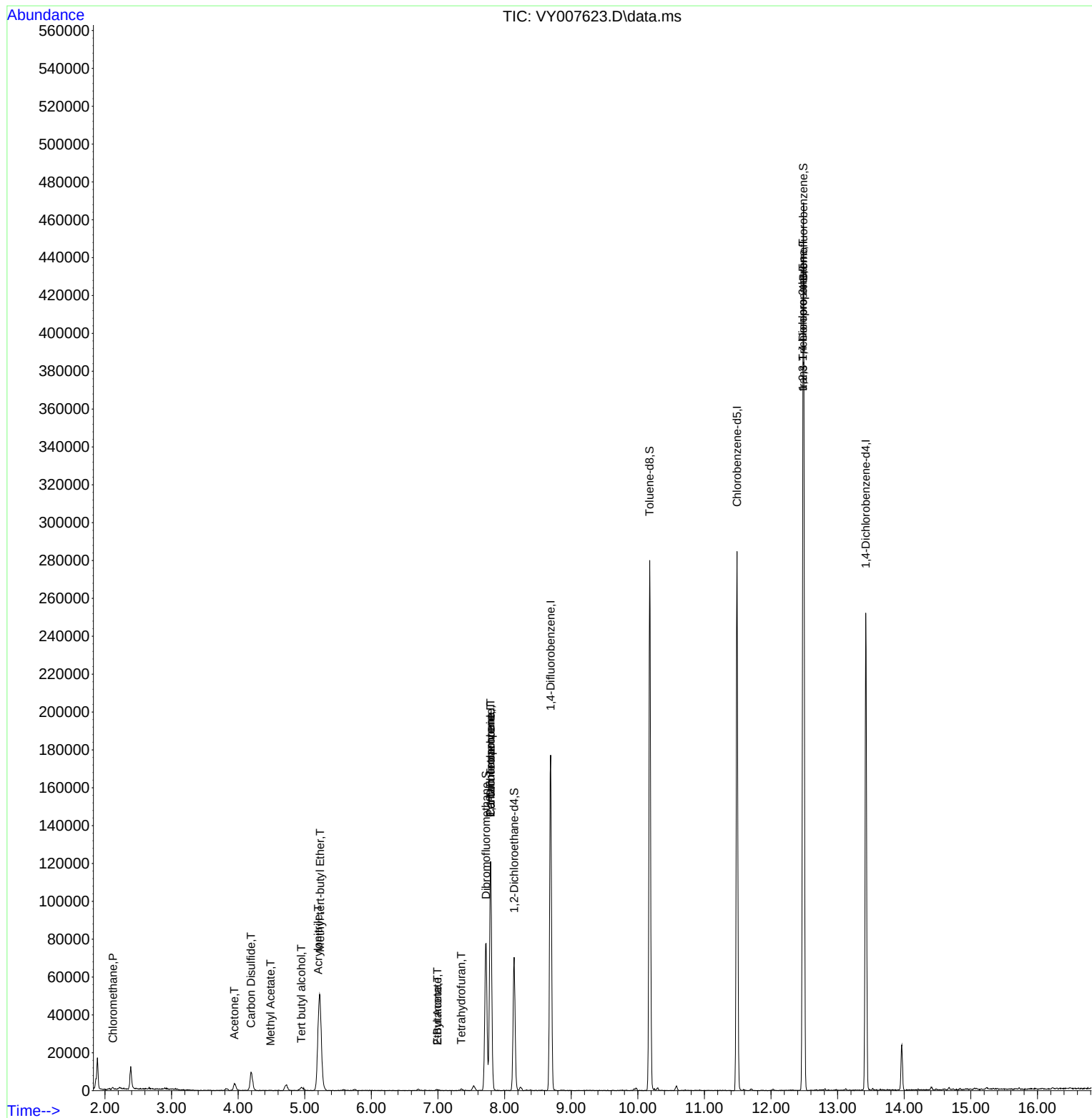
| Compound                      | R.T.   | QIon  | Response | Conc      | Units      | Dev(Min) |
|-------------------------------|--------|-------|----------|-----------|------------|----------|
| -----                         |        |       |          |           |            |          |
| Internal Standards            |        |       |          |           |            |          |
| 1) Pentafluorobenzene         | 7.789  | 168   | 94230    | 50.000    | ug/l       | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.691  | 114   | 156959   | 50.000    | ug/l       | 0.00     |
| 63) Chlorobenzene-d5          | 11.489 | 117   | 152112   | 50.000    | ug/l       | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.422 | 152   | 63552    | 50.000    | ug/l       | 0.00     |
| System Monitoring Compounds   |        |       |          |           |            |          |
| 33) 1,2-Dichloroethane-d4     | 8.143  | 65    | 53527    | 51.062    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 50 - 163 | Recovery  | = 102.120% |          |
| 35) Dibromofluoromethane      | 7.722  | 113   | 51798    | 52.301    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 54 - 147 | Recovery  | = 104.600% |          |
| 50) Toluene-d8                | 10.179 | 98    | 184030   | 50.206    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 49 - 140 | Recovery  | = 100.420% |          |
| 62) 4-Bromofluorobenzene      | 12.483 | 95    | 62314    | 49.760    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 25 - 144 | Recovery  | = 99.520%  |          |
| Target Compounds              |        |       |          |           |            |          |
|                               |        |       |          |           | Qvalue     |          |
| 3) Chloromethane              | 2.119  | 50    | 1006     | 1.614     | ug/l       | 94       |
| 5) Bromomethane               | 2.662  | 94    | 248      | Below Cal |            | 83       |
| 11) Tert butyl alcohol        | 4.948  | 59    | 3748     | 35.500    | ug/l #     | 77       |
| 15) Acrylonitrile             | 5.204  | 53    | 575      | 2.450     | ug/l #     | 19       |
| 16) Acetone                   | 3.942  | 43    | 6368     | 26.674    | ug/l #     | 88       |
| 17) Carbon Disulfide          | 4.192  | 76    | 19703    | 7.448     | ug/l       | 100      |
| 18) Methyl Acetate            | 4.485  | 43    | 282      | 1.778     | ug/l #     | 75       |
| 19) Methyl tert-butyl Ether   | 5.228  | 73    | 97567    | 34.106    | ug/l #     | 90       |
| 20) Methylene Chloride        | 4.729  | 84    | 2436     | Below Cal | #          | 72       |
| 25) 2-Butanone                | 6.990  | 43    | 737      | 2.723     | ug/l #     | 54       |
| 29) Tetrahydrofuran           | 7.350  | 42    | 505      | 3.206     | ug/l #     | 79       |
| 31) Cyclohexane               | 7.789  | 56    | 1966     | Below Cal | #          | 29       |
| 36) 1,1-Dichloropropene       | 7.789  | 75    | 6848     | 4.798     | ug/l #     | 52       |
| 37) Ethyl Acetate             | 6.990  | 43    | 737      | 1.147     | ug/l #     | 72       |
| 38) Carbon Tetrachloride      | 7.789  | 117   | 8814     | 4.217     | ug/l #     | 15       |
| 76) 1,2,3-Trichloropropane    | 12.477 | 75    | 38666    | 60.833    | ug/l #     | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.477 | 75    | 38666    | 130.800   | ug/l #     | 8        |
| -----                         |        |       |          |           |            |          |

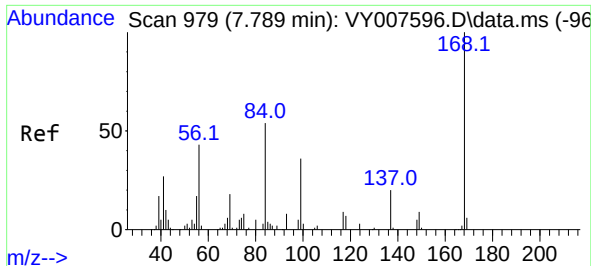
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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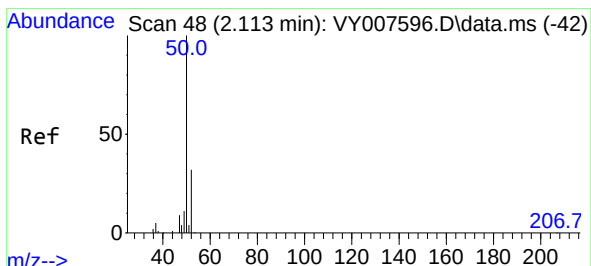
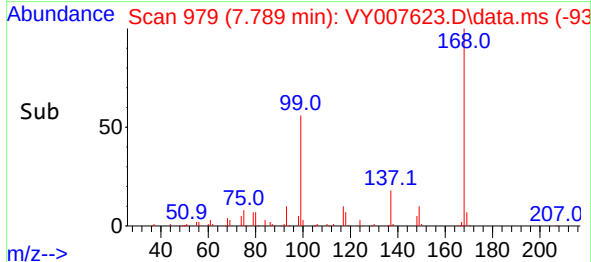
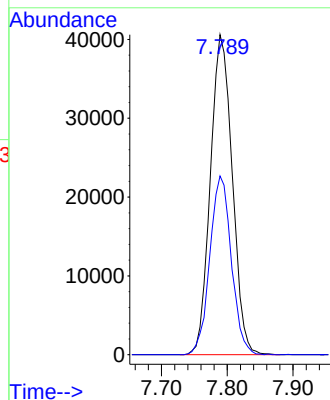
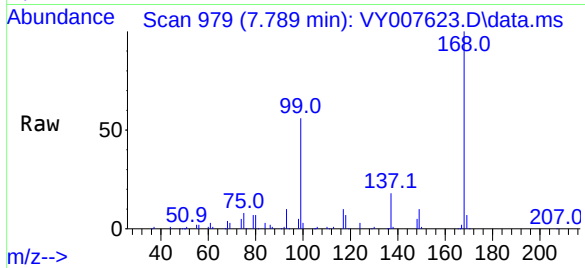




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.789 min Scan# 91  
Delta R.T. -0.000 min  
Lab File: VY007623.D  
Acq: 24 Feb 2022 17:27

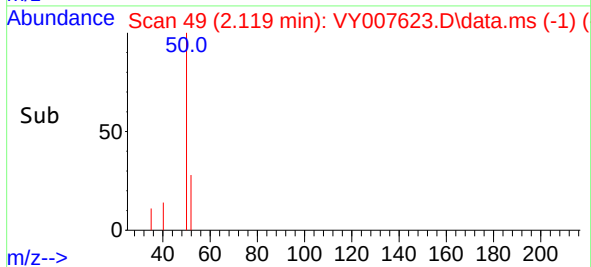
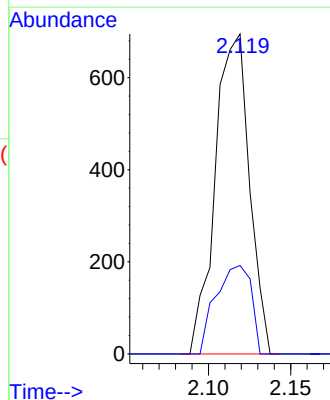
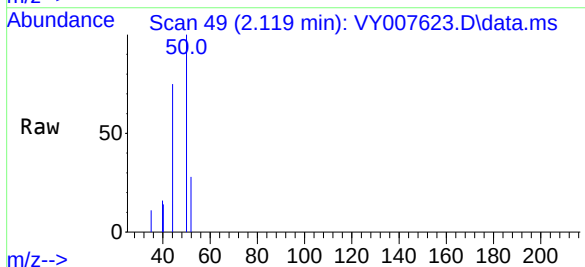
Instrument :  
MSVOA\_Y  
ClientSampleId :  
D14-5.5

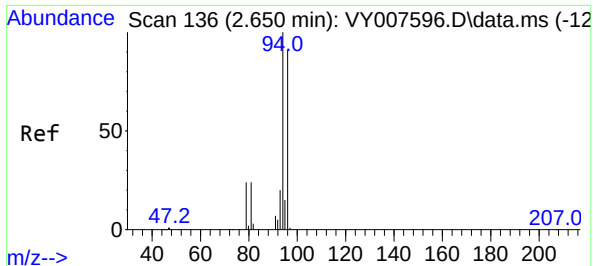
Tgt Ion:168 Resp: 94230  
Ion Ratio Lower Upper  
168 100  
99 55.9 46.9 70.3



#3  
Chloromethane  
Concen: 1.614 ug/l  
RT: 2.119 min Scan# 49  
Delta R.T. 0.006 min  
Lab File: VY007623.D  
Acq: 24 Feb 2022 17:27

Tgt Ion: 50 Resp: 1006  
Ion Ratio Lower Upper  
50 100  
52 27.6 24.6 37.0

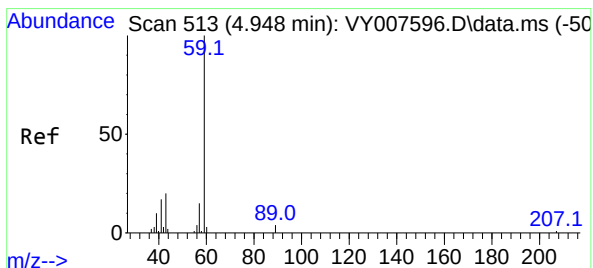
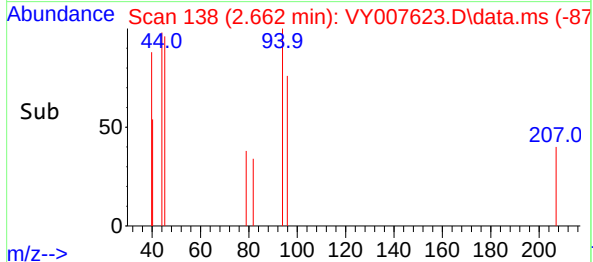
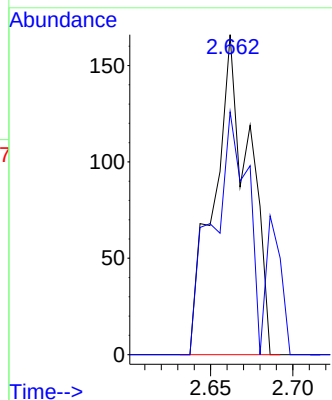
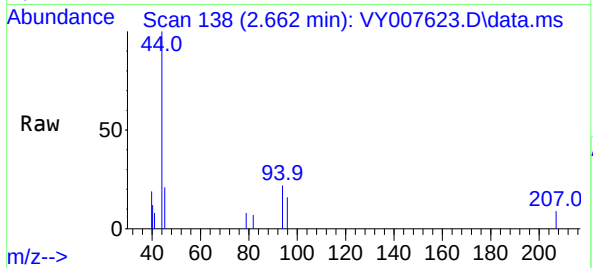




#5  
Bromomethane  
Concen: Below Cal  
RT: 2.662 min Scan# 11  
Delta R.T. 0.012 min  
Lab File: VY007623.D  
Acq: 24 Feb 2022 17:27

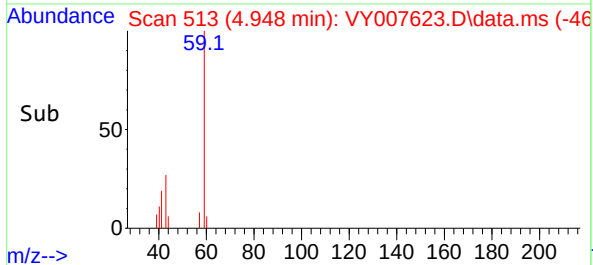
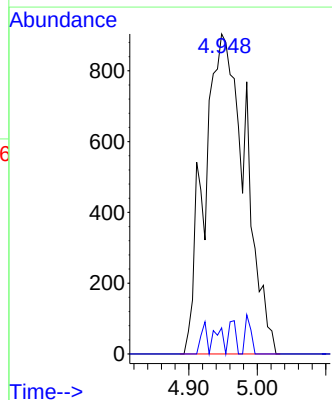
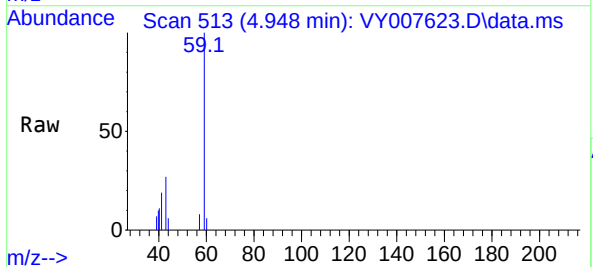
Instrument :  
MSVOA\_Y  
ClientSampleId :  
D14-5.5

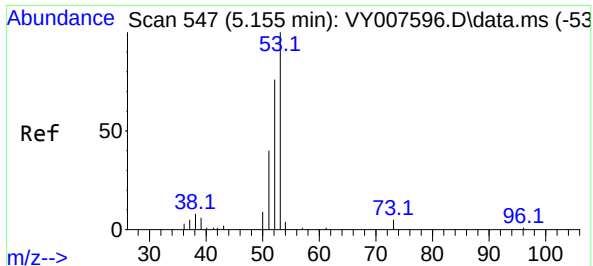
Tgt Ion: 94 Resp: 248  
Ion Ratio Lower Upper  
94 100  
96 75.9 73.5 110.3



#11  
Tert butyl alcohol  
Concen: 35.500 ug/l  
RT: 4.948 min Scan# 513  
Delta R.T. -0.000 min  
Lab File: VY007623.D  
Acq: 24 Feb 2022 17:27

Tgt Ion: 59 Resp: 3748  
Ion Ratio Lower Upper  
59 100  
57 0.0 6.4 9.6#

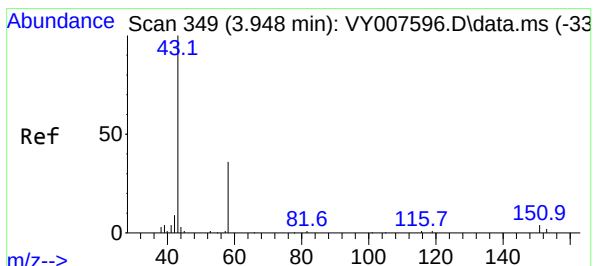
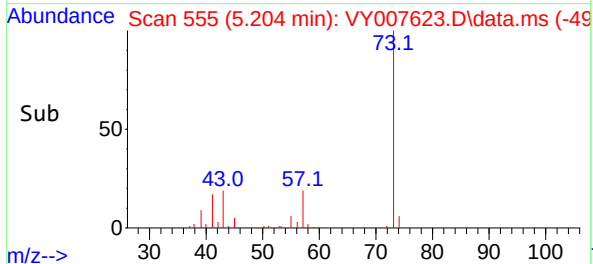
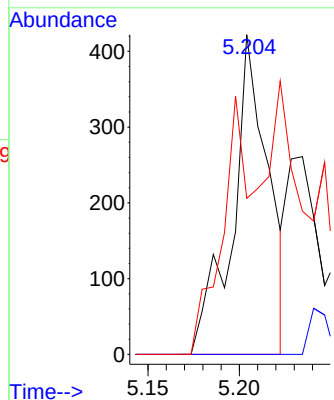
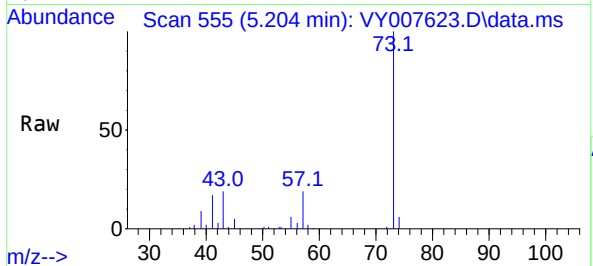




#15  
Acrylonitrile  
Concen: 2.450 ug/l  
RT: 5.204 min Scan# 51  
Delta R.T. 0.049 min  
Lab File: VY007623.D  
Acq: 24 Feb 2022 17:27

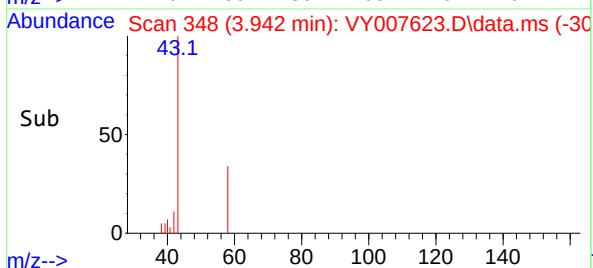
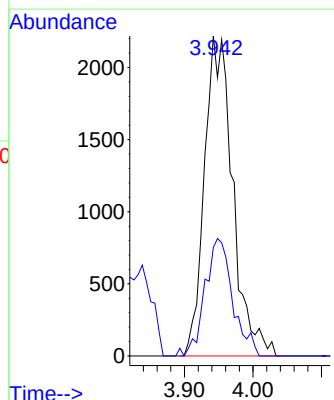
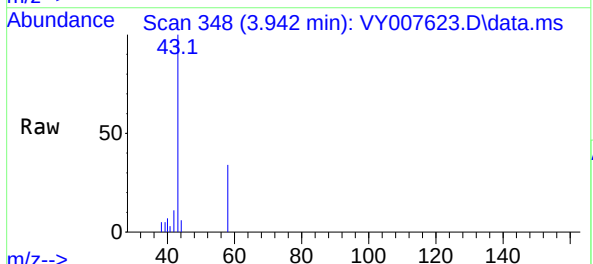
Instrument :  
MSVOA\_Y  
ClientSampleId :  
D14-5.5

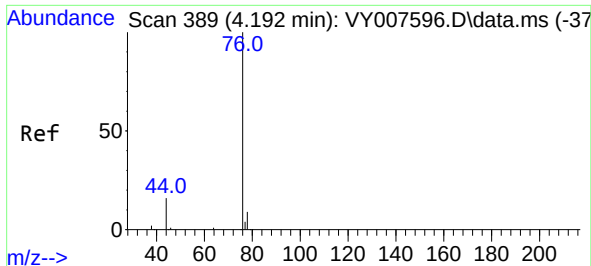
Tgt Ion: 53 Resp: 575  
Ion Ratio Lower Upper  
53 100  
52 0.0 67.0 100.4#  
51 70.1 29.8 44.6#



#16  
Acetone  
Concen: 26.674 ug/l  
RT: 3.942 min Scan# 348  
Delta R.T. -0.006 min  
Lab File: VY007623.D  
Acq: 24 Feb 2022 17:27

Tgt Ion: 43 Resp: 6368  
Ion Ratio Lower Upper  
43 100  
58 33.9 22.0 33.0#

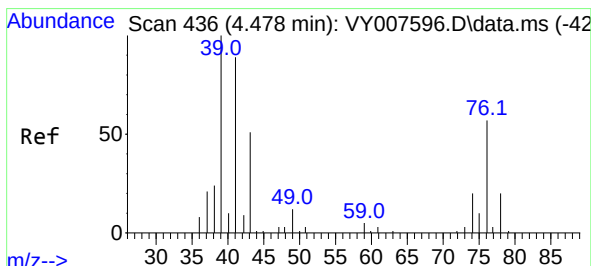
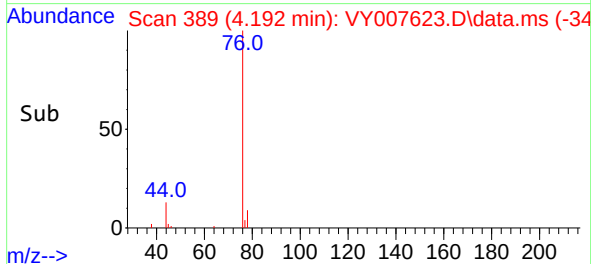
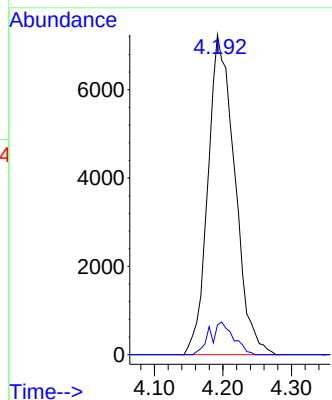
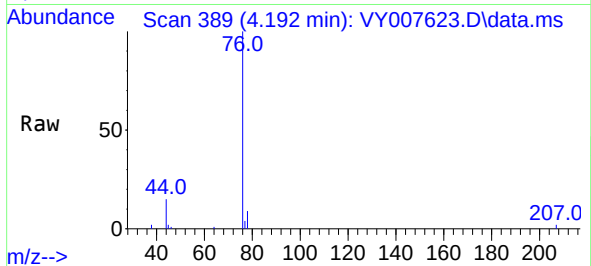




#17  
Carbon Disulfide  
Concen: 7.448 ug/l  
RT: 4.192 min Scan# 389  
Delta R.T. 0.000 min  
Lab File: VY007623.D  
Acq: 24 Feb 2022 17:27

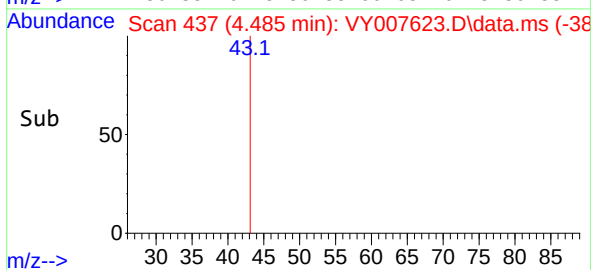
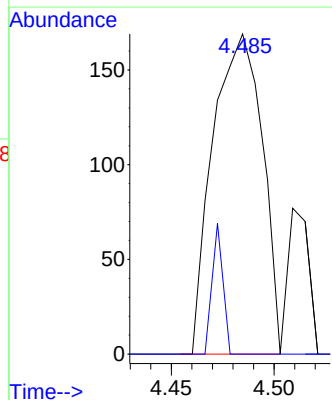
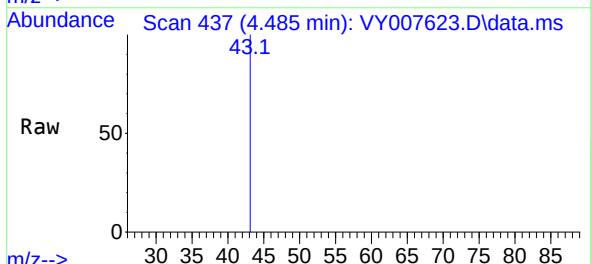
Instrument :  
MSVOA\_Y  
ClientSampleId :  
D14-5.5

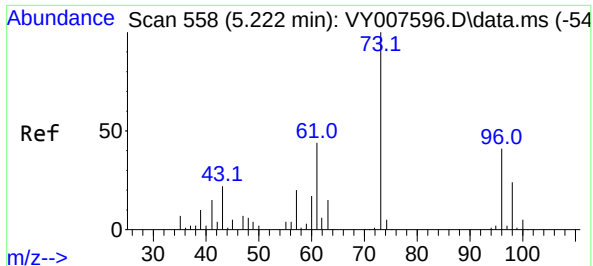
Tgt Ion: 76 Resp: 19703  
Ion Ratio Lower Upper  
76 100  
78 9.3 7.4 11.0



#18  
Methyl Acetate  
Concen: 1.778 ug/l  
RT: 4.485 min Scan# 437  
Delta R.T. 0.007 min  
Lab File: VY007623.D  
Acq: 24 Feb 2022 17:27

Tgt Ion: 43 Resp: 282  
Ion Ratio Lower Upper  
43 100  
74 8.9 16.6 24.8#

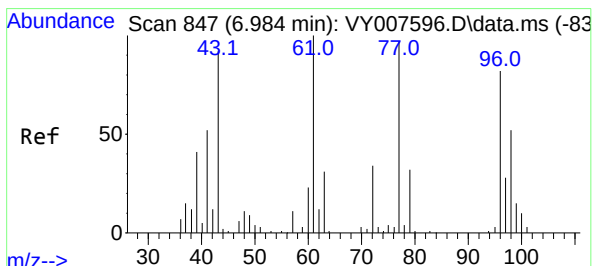
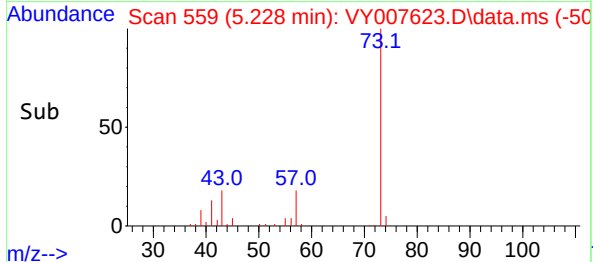
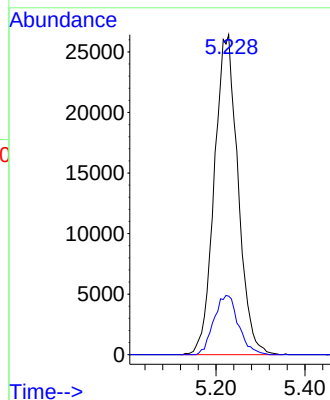
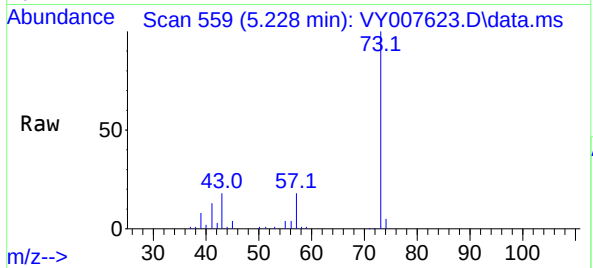




#19  
Methyl tert-butyl Ether  
Concen: 34.106 ug/l  
RT: 5.228 min Scan# 51  
Delta R.T. 0.006 min  
Lab File: VY007623.D  
Acq: 24 Feb 2022 17:27

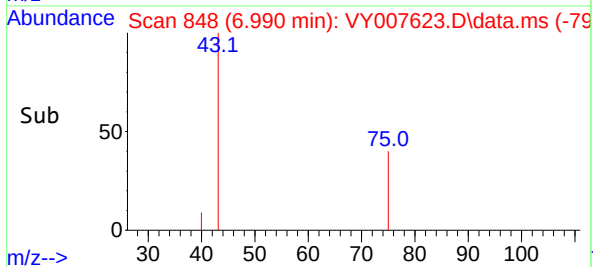
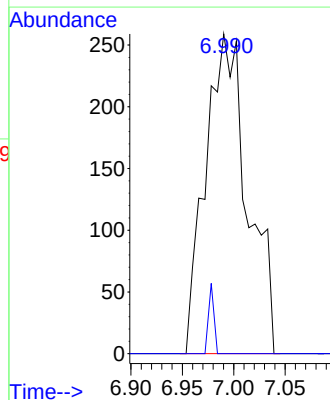
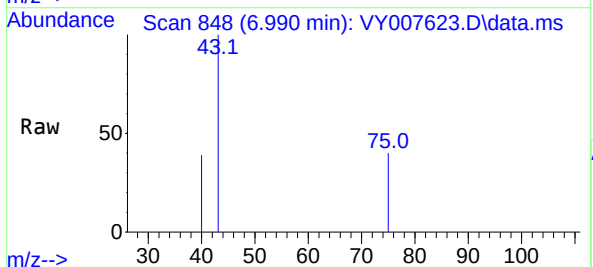
Instrument :  
MSVOA\_Y  
ClientSampleId :  
D14-5.5

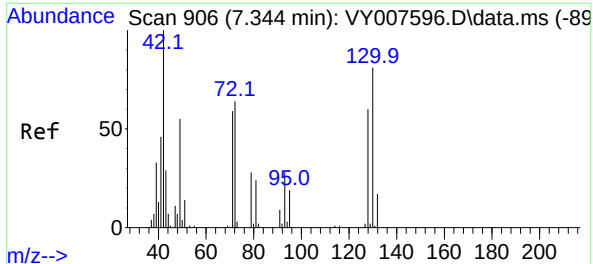
Tgt Ion: 73 Resp: 97567  
Ion Ratio Lower Upper  
73 100  
57 18.3 18.6 27.8#



#25  
2-Butanone  
Concen: 2.723 ug/l  
RT: 6.990 min Scan# 848  
Delta R.T. 0.006 min  
Lab File: VY007623.D  
Acq: 24 Feb 2022 17:27

Tgt Ion: 43 Resp: 737  
Ion Ratio Lower Upper  
43 100  
72 0.0 17.7 26.5#





#29

Tetrahydrofuran

Concen: 3.206 ug/l

RT: 7.350 min Scan# 906

Delta R.T. 0.006 min

Lab File: VY007623.D

Acq: 24 Feb 2022 17:27

Instrument :

MSVOA\_Y

ClientSampleId :

D14-5.5

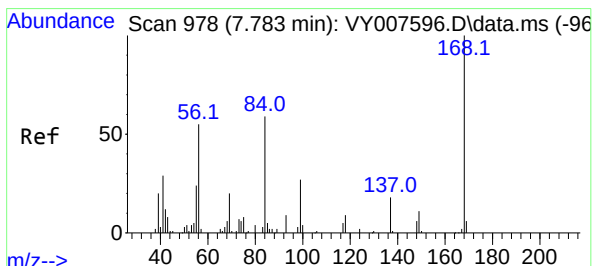
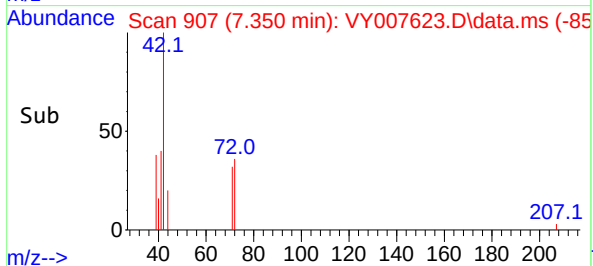
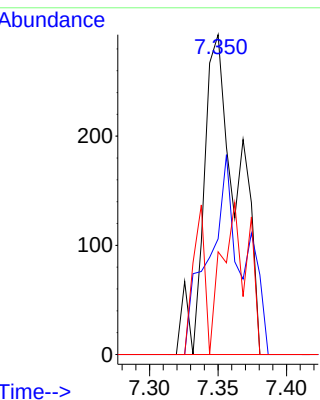
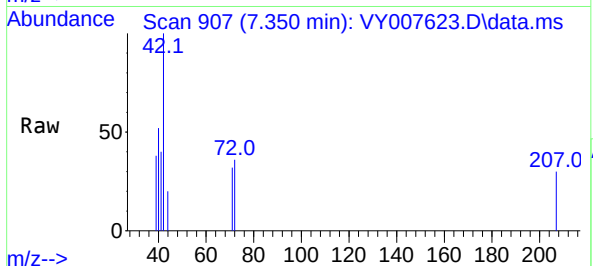
Tgt Ion: 42 Resp: 505

Ion Ratio Lower Upper

42 100

72 62.8 30.3 45.5#

71 35.8 29.0 43.4



#31

Cyclohexane

Concen: Below Cal

RT: 7.789 min Scan# 979

Delta R.T. 0.006 min

Lab File: VY007623.D

Acq: 24 Feb 2022 17:27

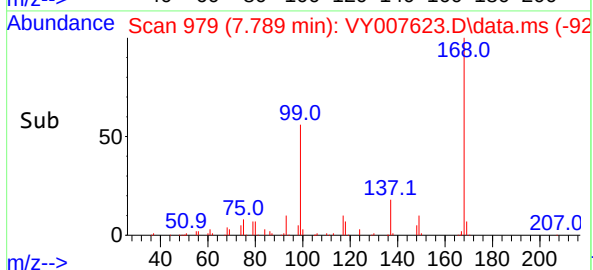
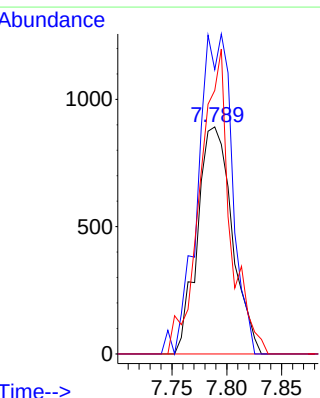
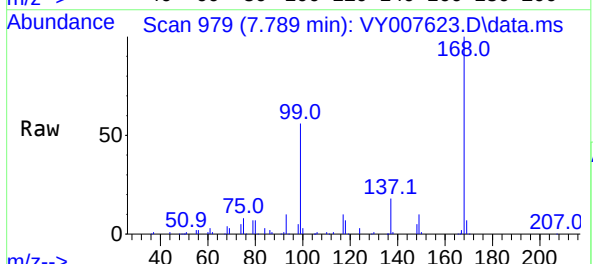
Tgt Ion: 56 Resp: 1966

Ion Ratio Lower Upper

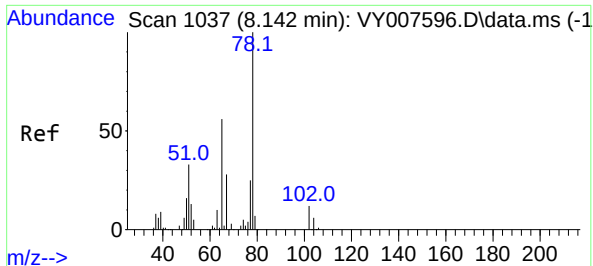
56 100

69 125.2 26.7 40.1#

84 116.0 67.2 100.8#



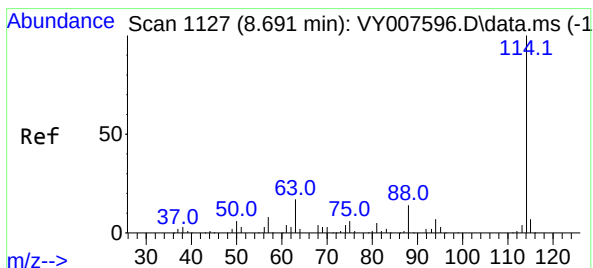
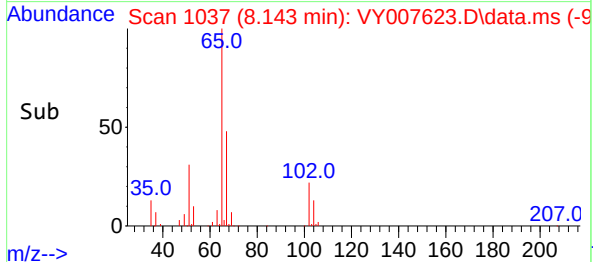
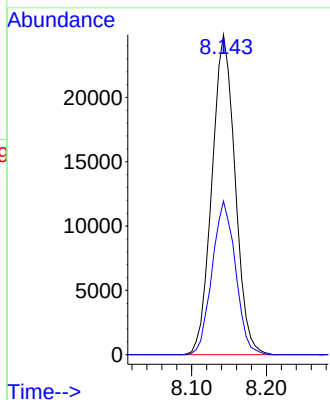
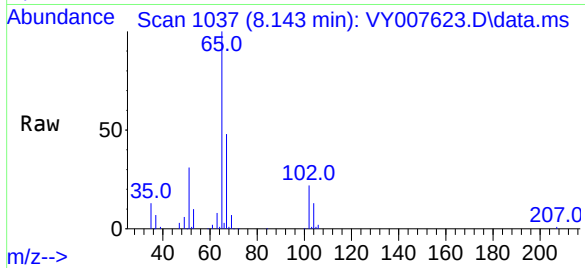




#33  
1,2-Dichloroethane-d4  
Concen: 51.062 ug/l  
RT: 8.143 min Scan# 1037  
Delta R.T. 0.001 min  
Lab File: VY007623.D  
Acq: 24 Feb 2022 17:27

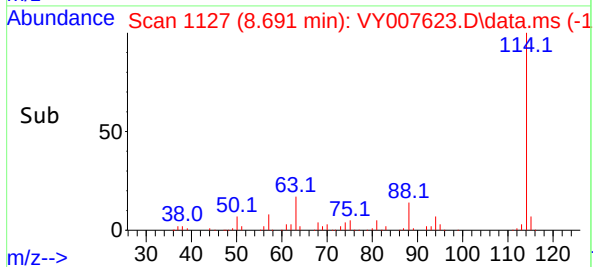
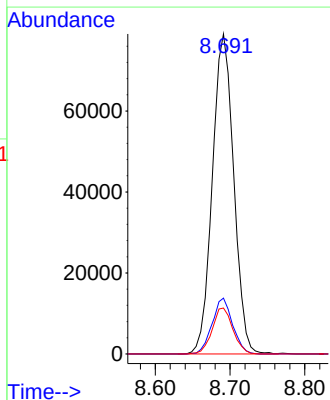
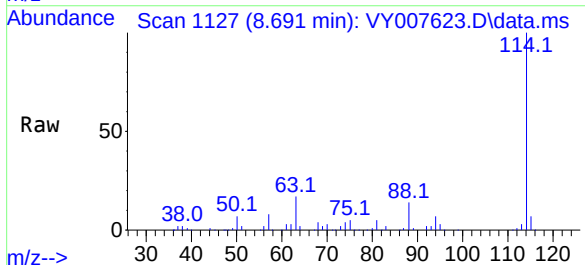
Instrument :  
MSVOA\_Y  
ClientSampleId :  
D14-5.5

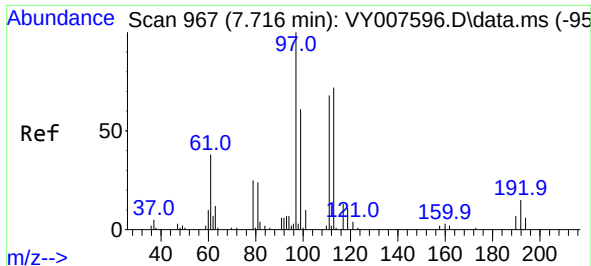
Tgt Ion: 65 Resp: 53527  
Ion Ratio Lower Upper  
65 100  
67 48.5 0.0 99.4



#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 8.691 min Scan# 1127  
Delta R.T. 0.000 min  
Lab File: VY007623.D  
Acq: 24 Feb 2022 17:27

Tgt Ion: 114 Resp: 156959  
Ion Ratio Lower Upper  
114 100  
63 17.5 0.0 43.2  
88 14.4 0.0 31.8

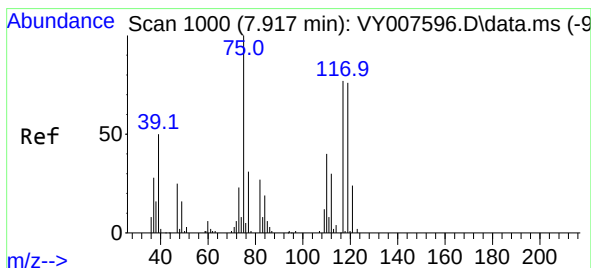
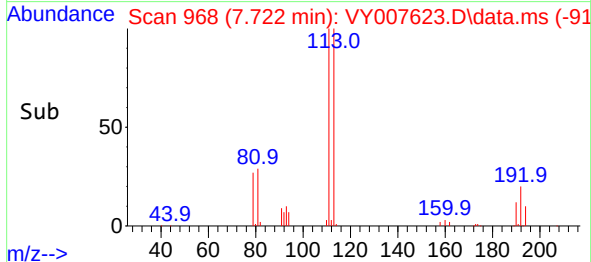
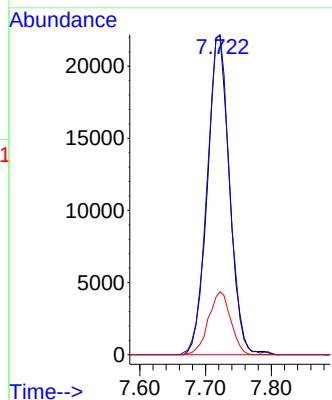
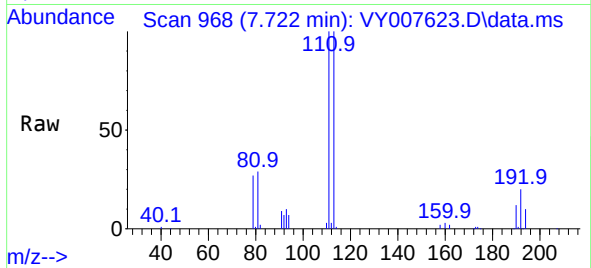




#35  
Dibromofluoromethane  
Concen: 52.301 ug/l  
RT: 7.722 min Scan# 911  
Delta R.T. 0.006 min  
Lab File: VY007623.D  
Acq: 24 Feb 2022 17:27

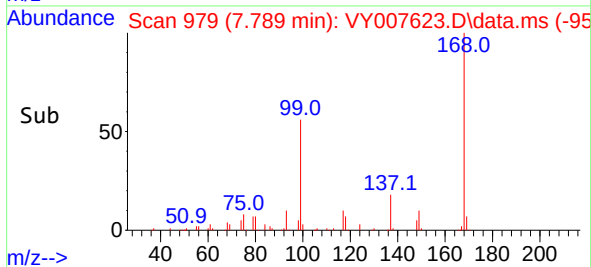
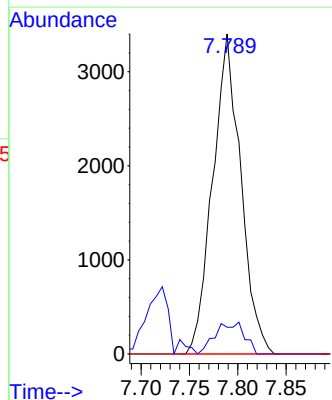
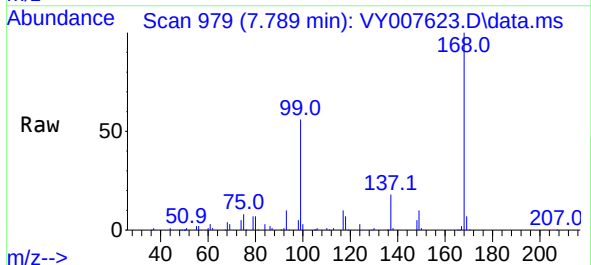
Instrument :  
MSVOA\_Y  
ClientSampleId :  
D14-5.5

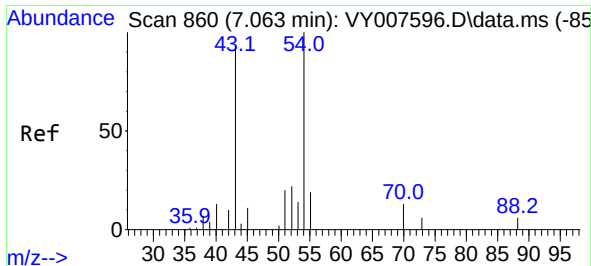
Tgt Ion:113 Resp: 51798  
Ion Ratio Lower Upper  
113 100  
111 101.2 82.6 124.0  
192 19.8 17.6 26.4



#36  
1,1-Dichloropropene  
Concen: 4.798 ug/l  
RT: 7.789 min Scan# 979  
Delta R.T. -0.128 min  
Lab File: VY007623.D  
Acq: 24 Feb 2022 17:27

Tgt Ion: 75 Resp: 6848  
Ion Ratio Lower Upper  
75 100  
110 10.3 17.1 51.2#  
77 0.0 24.4 36.6#





#37

Ethyl Acetate

Concen: 1.147 ug/l

RT: 6.990 min Scan# 84

Delta R.T. -0.073 min

Lab File: VY007623.D

Acq: 24 Feb 2022 17:27

Instrument :

MSVOA\_Y

ClientSampleId :

D14-5.5

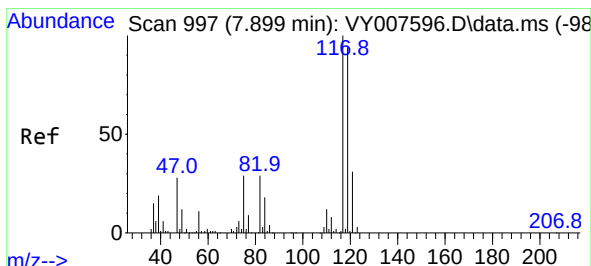
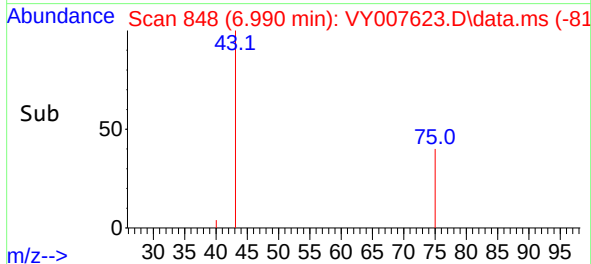
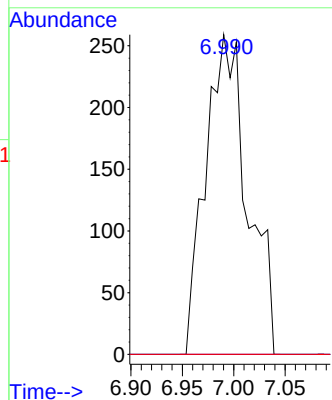
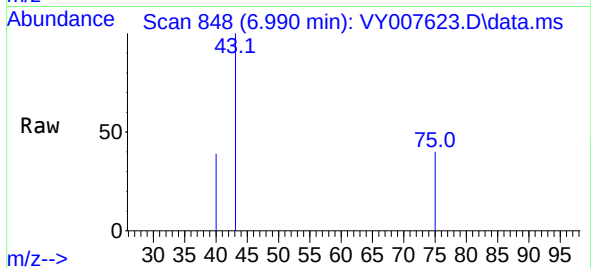
Tgt Ion: 43 Resp: 737

Ion Ratio Lower Upper

43 100

61 0.0 9.7 14.5#

70 0.0 7.1 10.7#



#38

Carbon Tetrachloride

Concen: 4.217 ug/l

RT: 7.789 min Scan# 979

Delta R.T. -0.110 min

Lab File: VY007623.D

Acq: 24 Feb 2022 17:27

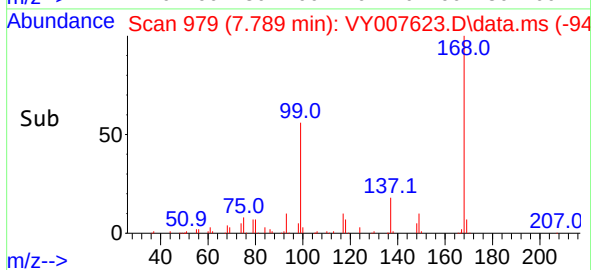
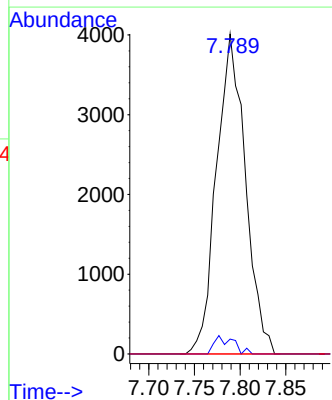
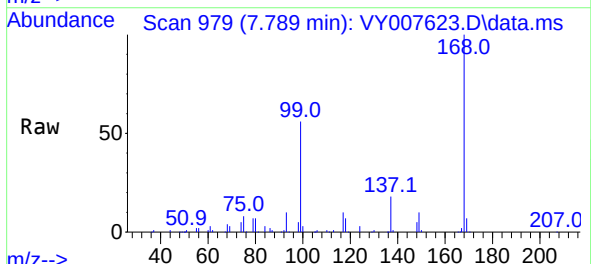
Tgt Ion: 117 Resp: 8814

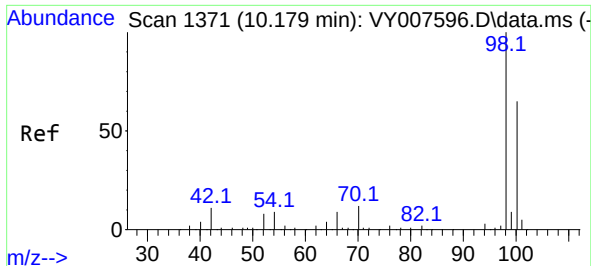
Ion Ratio Lower Upper

117 100

119 4.7 77.9 116.9#

121 0.0 24.8 37.2#

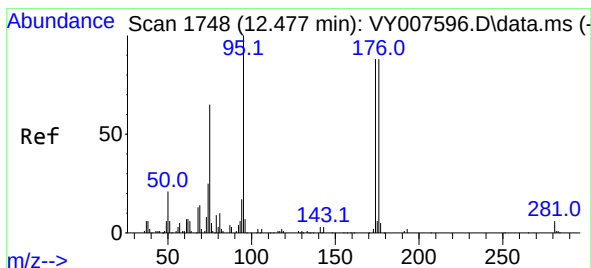
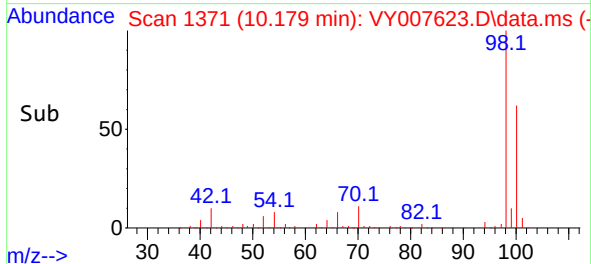
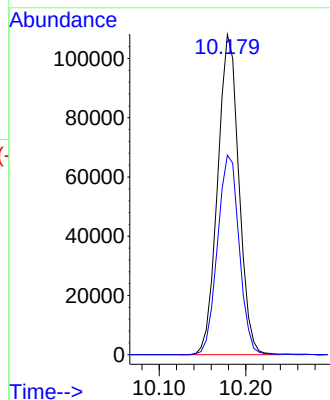
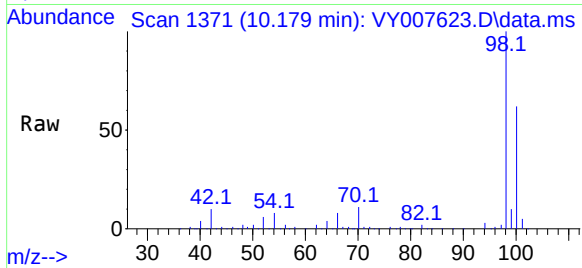




#50  
Toluene-d8  
Concen: 50.206 ug/l  
RT: 10.179 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VY007623.D  
Acq: 24 Feb 2022 17:27

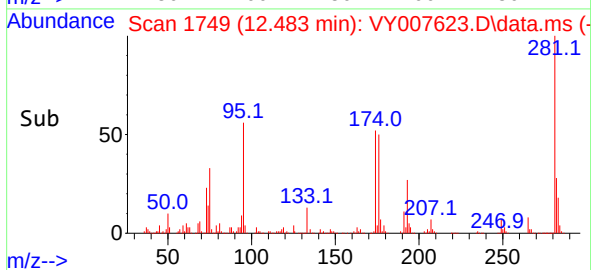
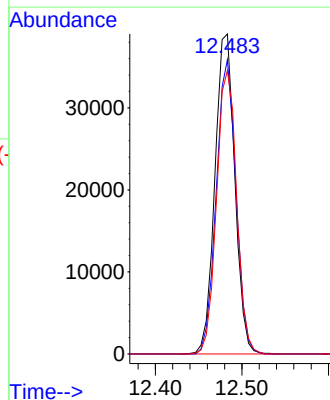
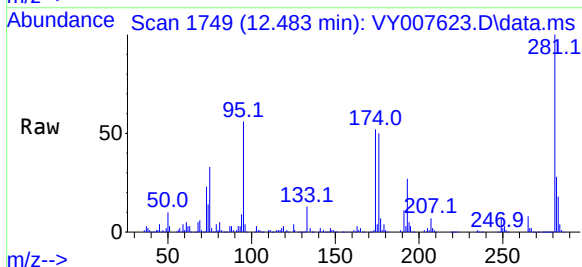
Instrument :  
MSVOA\_Y  
ClientSampleId :  
D14-5.5

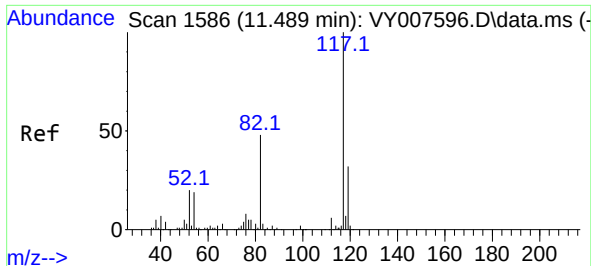
Tgt Ion: 98 Resp: 184030  
Ion Ratio Lower Upper  
98 100  
100 63.7 50.2 75.2



#62  
4-Bromofluorobenzene  
Concen: 49.760 ug/l  
RT: 12.483 min Scan# 1749  
Delta R.T. 0.006 min  
Lab File: VY007623.D  
Acq: 24 Feb 2022 17:27

Tgt Ion: 95 Resp: 62314  
Ion Ratio Lower Upper  
95 100  
174 90.7 0.0 177.0  
176 88.7 0.0 175.8

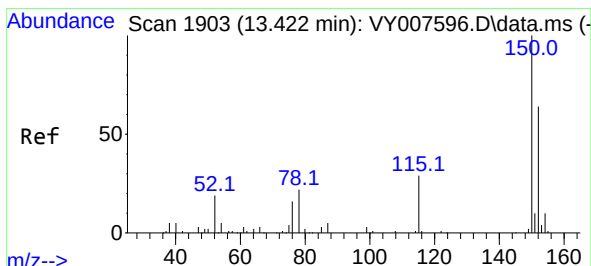
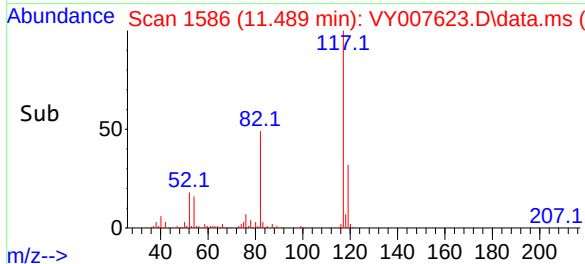
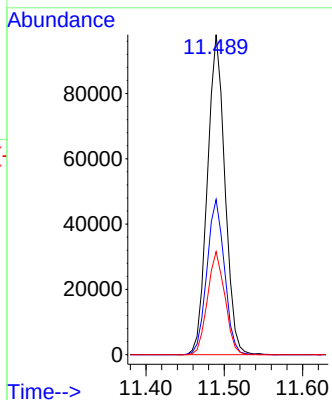
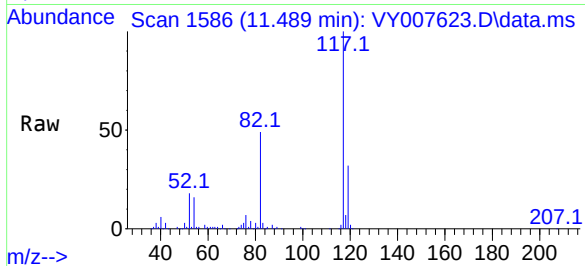




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.489 min Scan# 117  
Delta R.T. 0.000 min  
Lab File: VY007623.D  
Acq: 24 Feb 2022 17:27

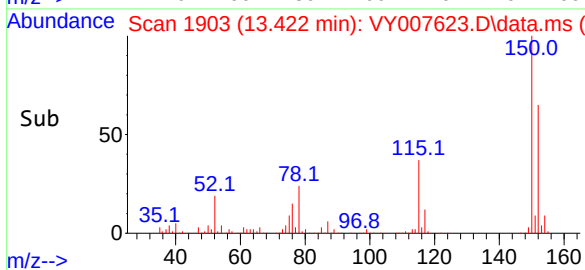
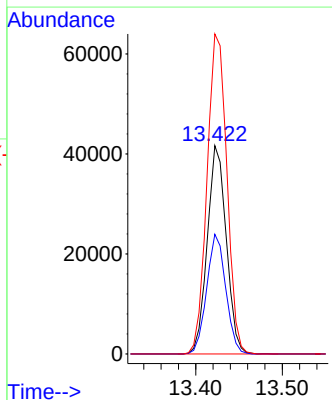
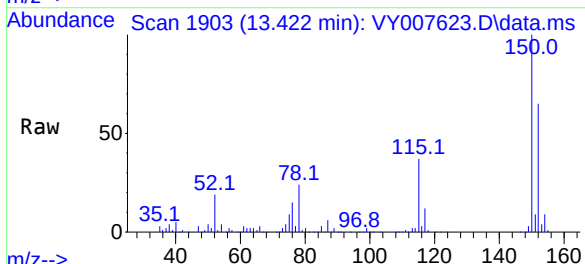
Instrument :  
MSVOA\_Y  
ClientSampleId :  
D14-5.5

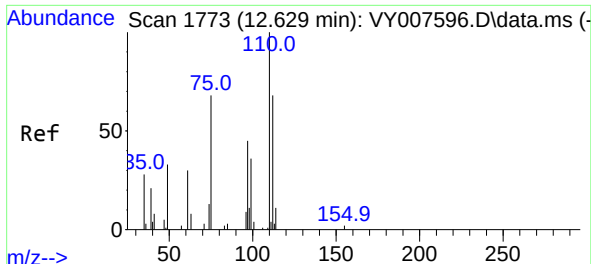
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 117   | Resp: | 152112 |
| Ion      | Ratio | Lower | Upper  |
| 117      | 100   |       |        |
| 82       | 48.5  | 43.0  | 64.4   |
| 119      | 32.2  | 25.4  | 38.0   |



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.422 min Scan# 1903  
Delta R.T. 0.000 min  
Lab File: VY007623.D  
Acq: 24 Feb 2022 17:27

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 152   | Resp: | 63552 |
| Ion      | Ratio | Lower | Upper |
| 152      | 100   |       |       |
| 115      | 57.5  | 28.2  | 84.7  |
| 150      | 160.1 | 0.0   | 347.6 |

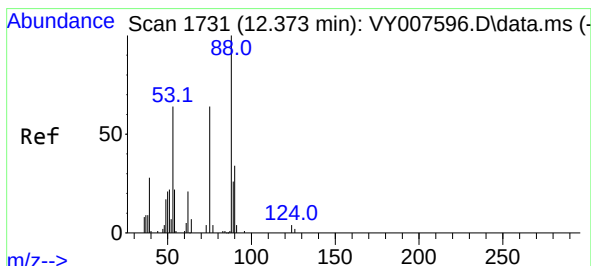
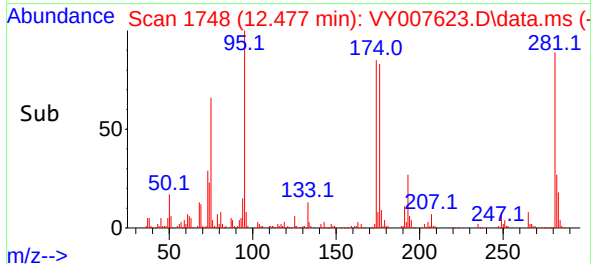
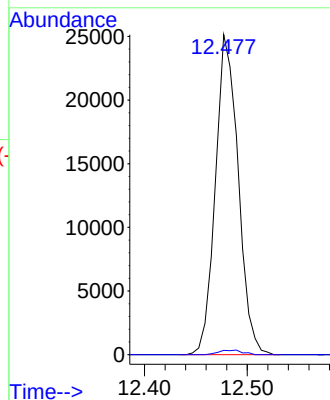
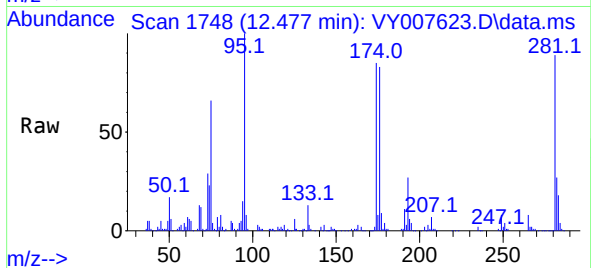




#76  
1,2,3-Trichloropropane  
Concen: 60.833 ug/l  
RT: 12.477 min Scan# 1748  
Delta R.T. -0.152 min  
Lab File: VY007623.D  
Acq: 24 Feb 2022 17:27

Instrument :  
MSVOA\_Y  
ClientSampleId :  
D14-5.5

Tgt Ion: 75 Resp: 38666  
Ion Ratio Lower Upper  
75 100  
77 1.5 0.0 0.0#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 130.800 ug/l  
RT: 12.477 min Scan# 1748  
Delta R.T. 0.104 min  
Lab File: VY007623.D  
Acq: 24 Feb 2022 17:27

Tgt Ion: 75 Resp: 38666  
Ion Ratio Lower Upper  
75 100  
53 0.0 85.3 127.9#  
89 2.5 37.0 55.4#

