

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX120621\  
 Data File : VX025558.D  
 Acq On : 06 Dec 2021 18:51  
 Operator : JC/MD  
 Sample : PB141182ZHE#08  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 23 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 PB141182ZHE#08

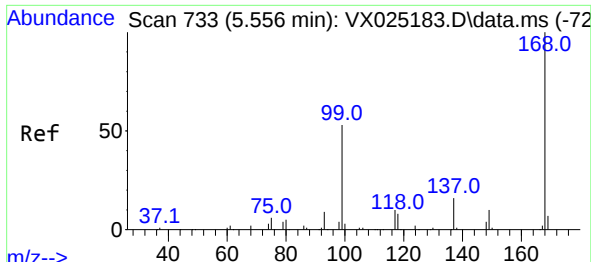
Quant Time: Dec 07 06:04:40 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X111721W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Nov 17 15:36:16 2021  
 Response via : Initial Calibration

| Compound                      | R.T.           | QIon | Response            | Conc      | Units  | Dev(Min) |
|-------------------------------|----------------|------|---------------------|-----------|--------|----------|
| -----                         |                |      |                     |           |        |          |
| Internal Standards            |                |      |                     |           |        |          |
| 1) Pentafluorobenzene         | 5.562          | 168  | 97394               | 50.000    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.769          | 114  | 160664              | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 10.055         | 117  | 146841              | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.024         | 152  | 63696               | 50.000    | ug/l   | 0.00     |
|                               |                |      |                     |           |        |          |
| System Monitoring Compounds   |                |      |                     |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 5.964          | 65   | 56645               | 55.177    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 78 - 117 |      | Recovery = 110.360% |           |        |          |
| 35) Dibromofluoromethane      | 5.391          | 113  | 49139               | 49.848    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 75 - 124 |      | Recovery = 99.700%  |           |        |          |
| 50) Toluene-d8                | 8.653          | 98   | 187551              | 50.602    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 92 - 112 |      | Recovery = 101.200% |           |        |          |
| 62) 4-Bromofluorobenzene      | 11.085         | 95   | 65108               | 46.434    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 83 - 123 |      | Recovery = 92.860%  |           |        |          |
|                               |                |      |                     |           |        |          |
| Target Compounds              |                |      |                     |           |        | Qvalue   |
| 5) Bromomethane               | 1.630          | 94   | 250                 | 0.507     | ug/l # | 63       |
| 6) Chloroethane               | 1.587          | 64   | 754                 | 0.952     | ug/l # | 43       |
| 8) Diethyl Ether              | 2.136          | 74   | 505                 | 0.718     | ug/l # | 17       |
| 11) Tert butyl alcohol        | 2.959          | 59   | 1079                | Below Cal | #      | 72       |
| 16) Acetone                   | 2.386          | 43   | 10242               | 17.955    | ug/l # | 88       |
| 18) Methyl Acetate            | 2.709          | 43   | 638                 | 0.350     | ug/l   | 92       |
| 20) Methylene Chloride        | 2.794          | 84   | 3569                | 3.328     | ug/l   | 93       |
| 25) 2-Butanone                | 4.568          | 43   | 3068                | 3.720     | ug/l   | 100      |
| 29) Tetrahydrofuran           | 5.038          | 42   | 376                 | 0.736     | ug/l # | 49       |
| 31) Cyclohexane               | 5.562          | 56   | 1860                | 1.172     | ug/l # | 11       |
| 36) 1,1-Dichloropropene       | 5.550          | 75   | 6836                | 4.877     | ug/l # | 51       |
| 38) Carbon Tetrachloride      | 5.562          | 117  | 9555                | 6.189     | ug/l # | 17       |
| 43) Isopropyl Acetate         | 6.348          | 43   | 8598                | 3.239     | ug/l   | 99       |
| 44) Trichloroethene           | 7.129          | 130  | 486                 | 0.394     | ug/l   | 67       |
| 48) Methyl methacrylate       | 7.806          | 41   | 44323               | 35.582    | ug/l # | 45       |
| 51) 4-Methyl-2-Pentanone      | 8.549          | 43   | 30099               | 18.085    | ug/l # | 50       |
| 54) cis-1,3-Dichloropropene   | 8.549          | 75   | 14455               | 8.060     | ug/l # | 62       |
| 57) 1,3-Dichloropropane       | 9.488          | 76   | 8923                | 4.886     | ug/l # | 42       |
| 59) 2-Hexanone                | 9.488          | 43   | 115707              | 88.187    | ug/l # | 52       |
| 74) N-amyl acetate            | 10.775         | 43   | 559                 | 0.285     | ug/l # | 43       |
| 76) 1,2,3-Trichloropropane    | 11.085         | 75   | 31134               | 23.869    | ug/l # | 37       |
| 80) 1,3,5-Trimethylbenzene    | 11.451         | 105  | 1028                | 0.269     | ug/l   | 97       |
| 81) trans-1,4-Dichloro-2-b... | 11.085         | 75   | 31134               | 60.130    | ug/l # | 9        |
| 95) Naphthalene               | 13.780         | 128  | 93                  | Below Cal | #      | 69       |
| -----                         |                |      |                     |           |        |          |

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

Quant Time: Dec 07 06:04:40 2021  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X111721W.M  
Quant Title : SW846 8260  
QLast Update : Wed Nov 17 15:36:16 2021  
Response via : Initial Calibration

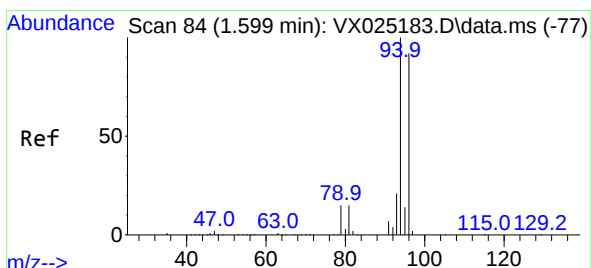
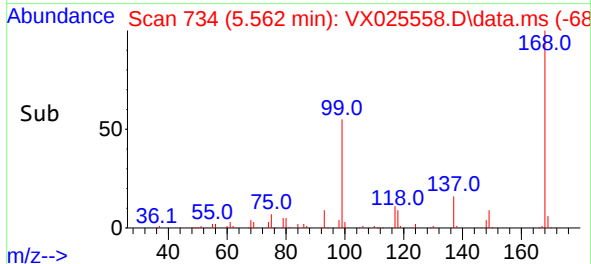
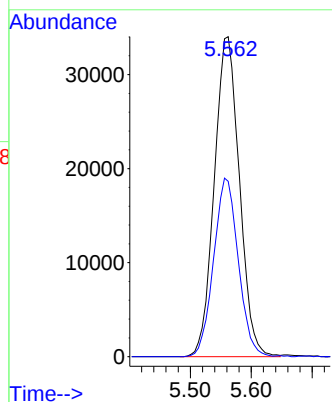
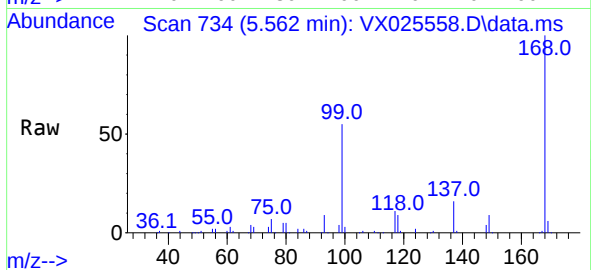




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.562 min Scan# 71  
Delta R.T. 0.006 min  
Lab File: VX025558.D  
Acq: 06 Dec 2021 18:51

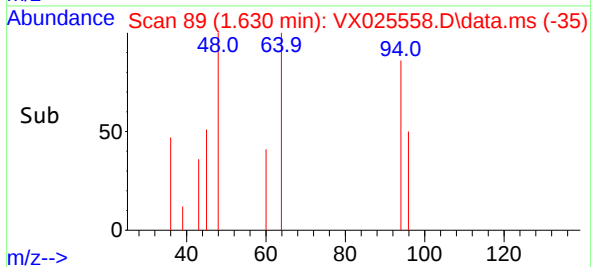
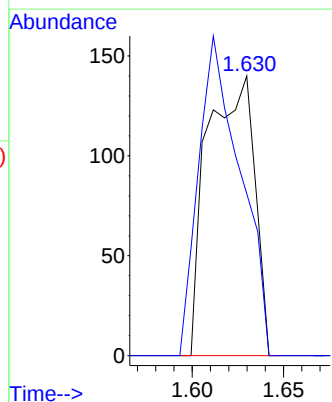
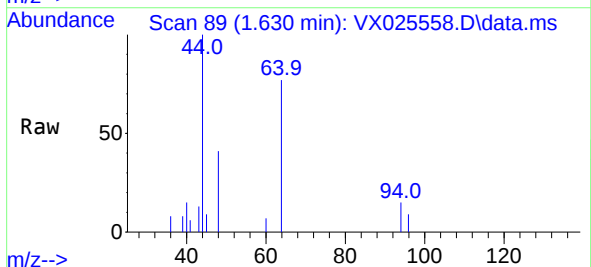
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB141182ZHE#08

Tgt Ion:168 Resp: 97394  
Ion Ratio Lower Upper  
168 100  
99 54.8 46.4 69.6

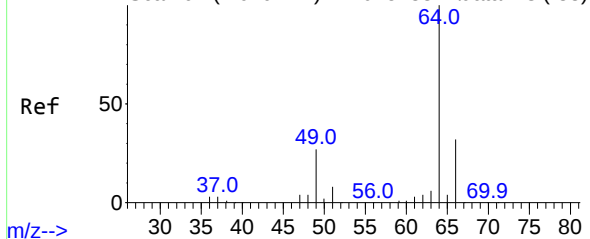


#5  
Bromomethane  
Concen: 0.507 ug/l  
RT: 1.630 min Scan# 89  
Delta R.T. 0.031 min  
Lab File: VX025558.D  
Acq: 06 Dec 2021 18:51

Tgt Ion: 94 Resp: 250  
Ion Ratio Lower Upper  
94 100  
96 57.9 74.8 112.2#



Abundance Scan 97 (1.679 min): VX025183.D\data.ms (-88)



#6

Chloroethane

Concen: 0.952 ug/l

RT: 1.587 min Scan# 81

Delta R.T. -0.092 min

Lab File: VX025558.D

Acq: 06 Dec 2021 18:51

Instrument :

MSVOA\_X

ClientSampleId :

PB141182ZHE#08

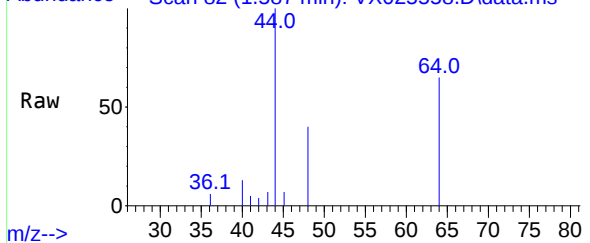
Tgt Ion: 64 Resp: 754

Ion Ratio Lower Upper

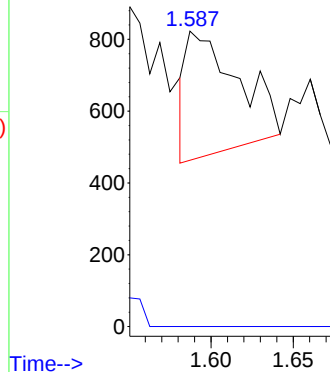
64 100

66 0.0 25.6 38.4#

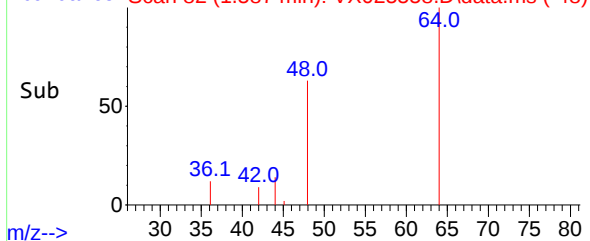
Abundance Scan 82 (1.587 min): VX025558.D\data.ms



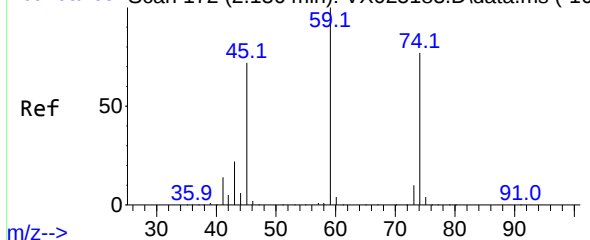
Abundance



Abundance Scan 82 (1.587 min): VX025558.D\data.ms (-48)



Abundance Scan 172 (2.136 min): VX025183.D\data.ms (-16)



#8

Diethyl Ether

Concen: 0.718 ug/l

RT: 2.136 min Scan# 172

Delta R.T. -0.000 min

Lab File: VX025558.D

Acq: 06 Dec 2021 18:51

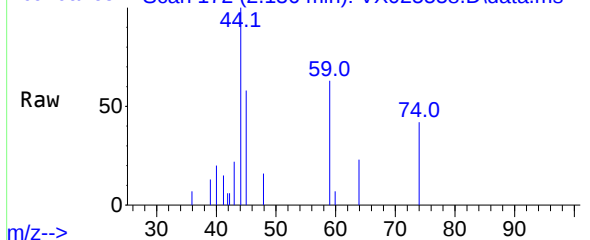
Tgt Ion: 74 Resp: 505

Ion Ratio Lower Upper

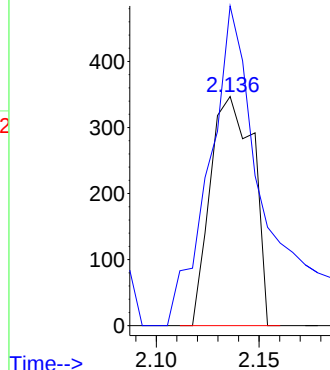
74 100

45 176.0 47.6 142.9#

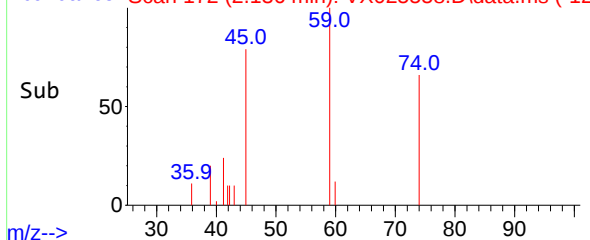
Abundance Scan 172 (2.136 min): VX025558.D\data.ms

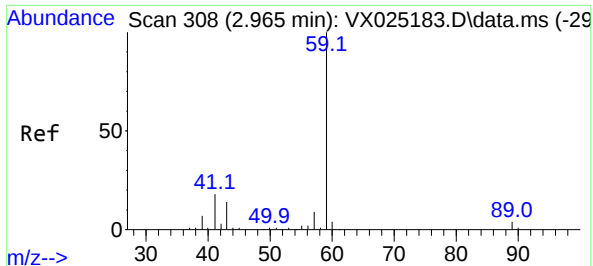


Abundance



Abundance Scan 172 (2.136 min): VX025558.D\data.ms (-12)





#11

Tert butyl alcohol

Concen: Below Cal

RT: 2.959 min Scan# 308

Delta R.T. -0.006 min

Lab File: VX025558.D

Acq: 06 Dec 2021 18:51

Instrument :

MSVOA\_X

ClientSampleId :

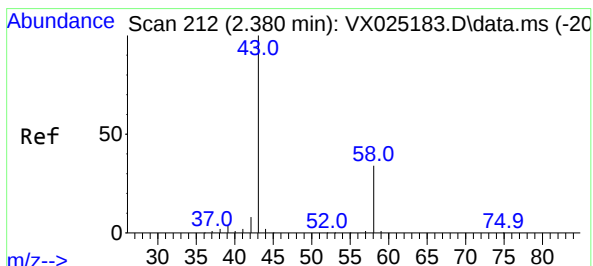
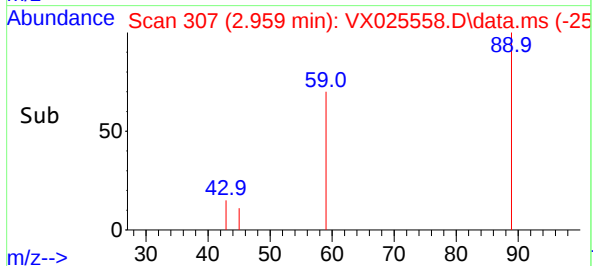
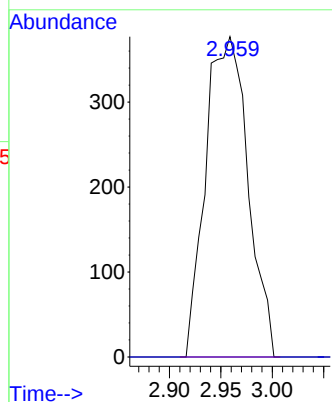
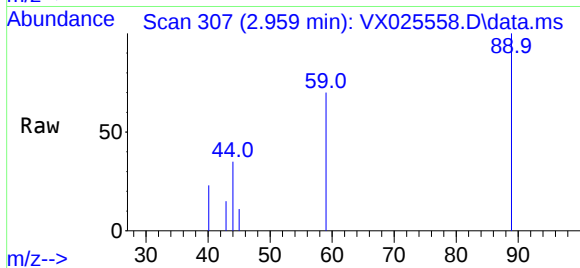
PB141182ZHE#08

Tgt Ion: 59 Resp: 1079

Ion Ratio Lower Upper

59 100

57 0.0 8.5 12.7#



#16

Acetone

Concen: 17.955 ug/l

RT: 2.386 min Scan# 213

Delta R.T. 0.006 min

Lab File: VX025558.D

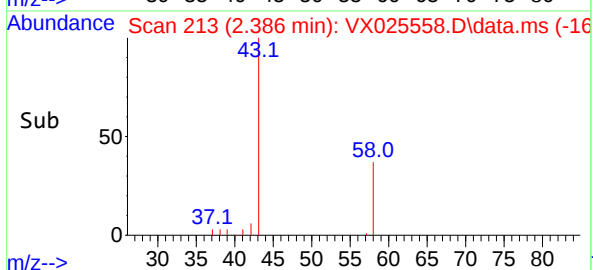
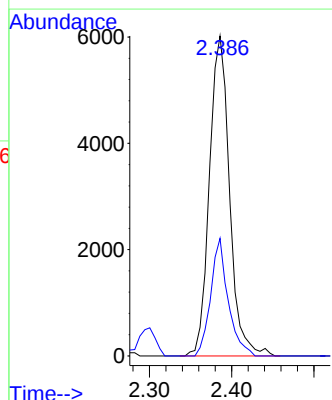
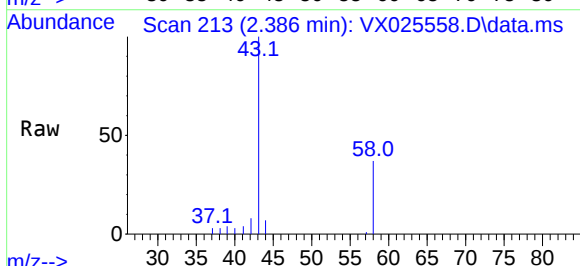
Acq: 06 Dec 2021 18:51

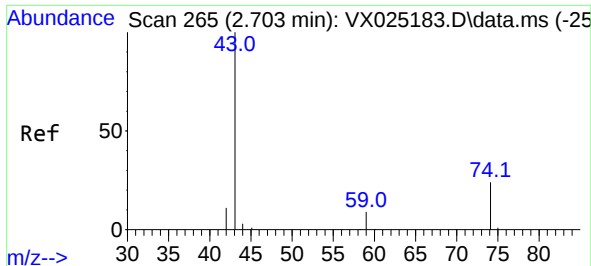
Tgt Ion: 43 Resp: 10242

Ion Ratio Lower Upper

43 100

58 36.7 24.0 36.0#





#18

Methyl Acetate

Concen: 0.350 ug/l

RT: 2.709 min Scan# 2

Delta R.T. 0.006 min

Lab File: VX025558.D

Acq: 06 Dec 2021 18:51

Instrument :

MSVOA\_X

ClientSampleId :

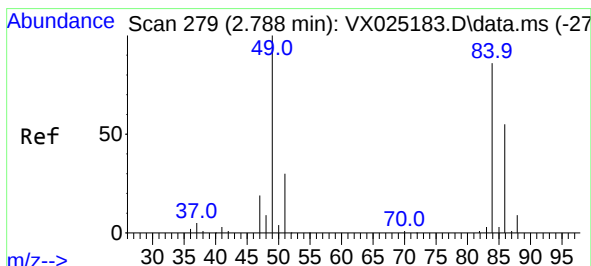
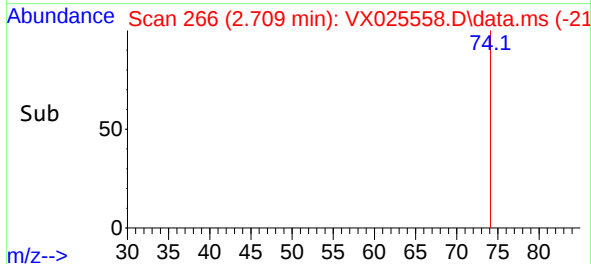
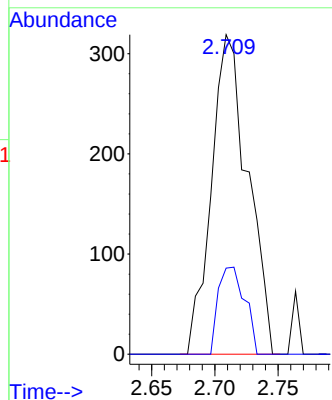
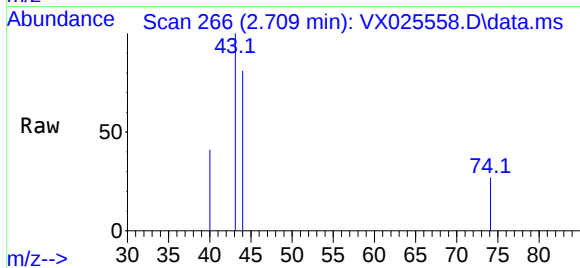
PB141182ZHE#08

Tgt Ion: 43 Resp: 638

Ion Ratio Lower Upper

43 100

74 19.9 19.0 28.6



#20

Methylene Chloride

Concen: 3.328 ug/l

RT: 2.794 min Scan# 280

Delta R.T. 0.006 min

Lab File: VX025558.D

Acq: 06 Dec 2021 18:51

Tgt Ion: 84 Resp: 3569

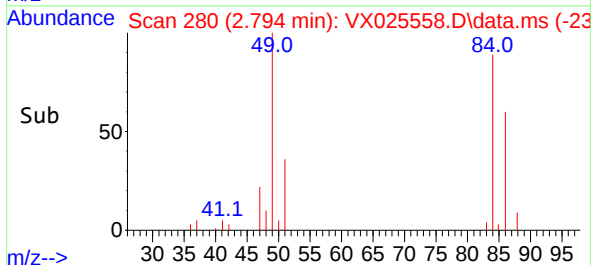
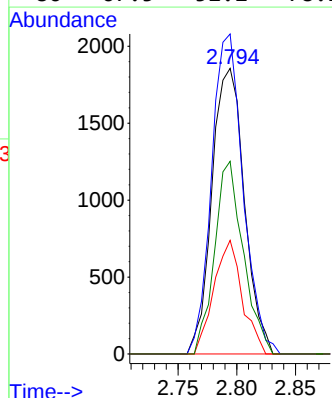
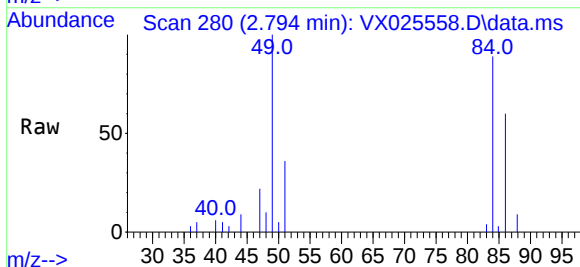
Ion Ratio Lower Upper

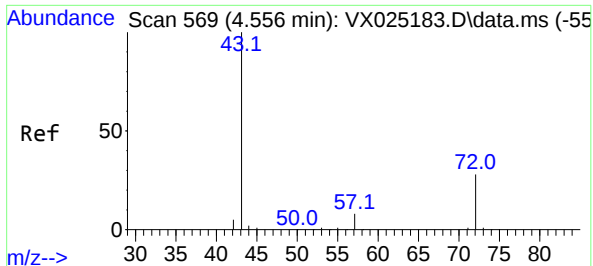
84 100

49 112.1 98.2 147.2

51 39.8 30.2 45.4

86 67.5 52.2 78.2

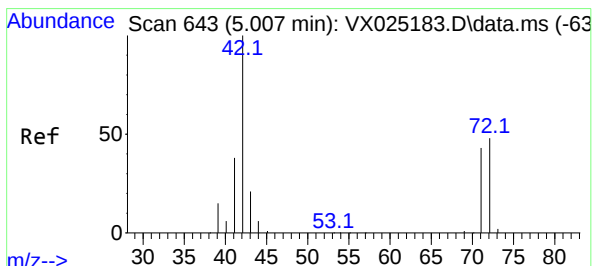
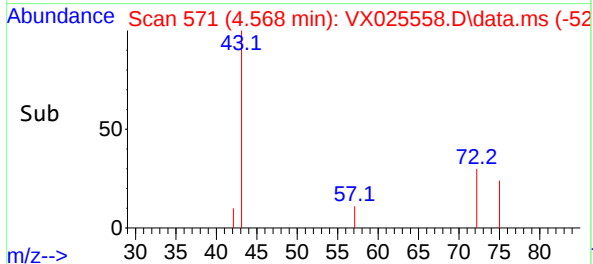
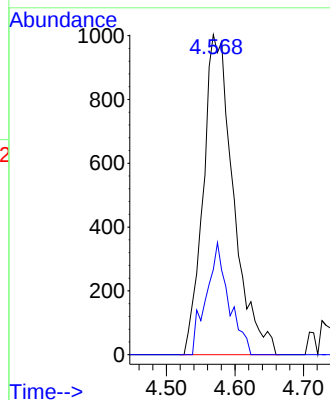
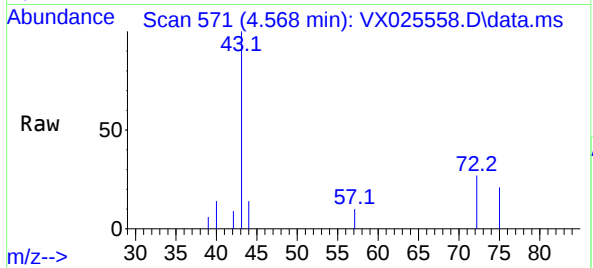




#25  
2-Butanone  
Concen: 3.720 ug/l  
RT: 4.568 min Scan# 51  
Delta R.T. 0.012 min  
Lab File: VX025558.D  
Acq: 06 Dec 2021 18:51

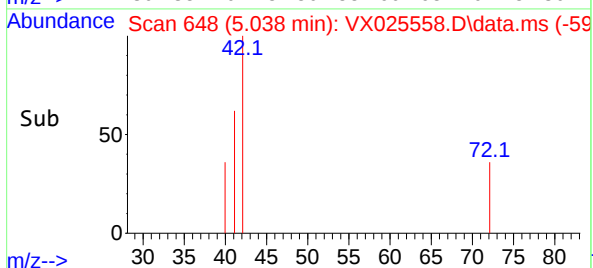
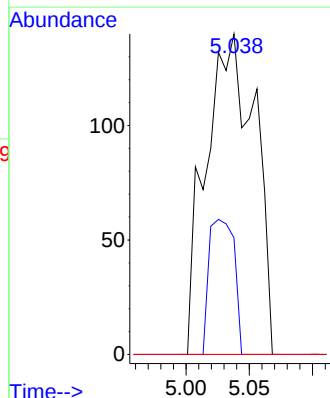
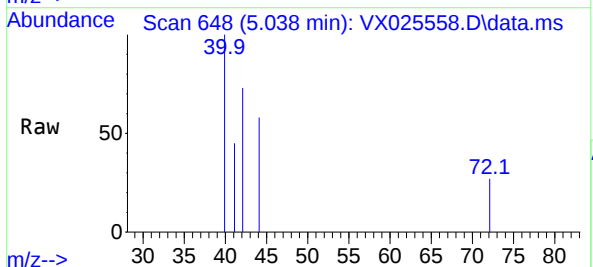
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB141182ZHE#08

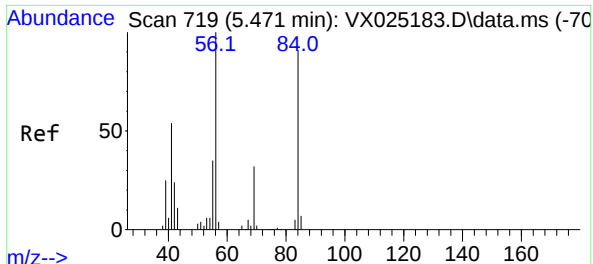
Tgt Ion: 43 Resp: 3068  
Ion Ratio Lower Upper  
43 100  
72 26.6 21.2 31.8



#29  
Tetrahydrofuran  
Concen: 0.736 ug/l  
RT: 5.038 min Scan# 648  
Delta R.T. 0.031 min  
Lab File: VX025558.D  
Acq: 06 Dec 2021 18:51

Tgt Ion: 42 Resp: 376  
Ion Ratio Lower Upper  
42 100  
72 21.8 36.1 54.1#  
71 0.0 33.7 50.5#

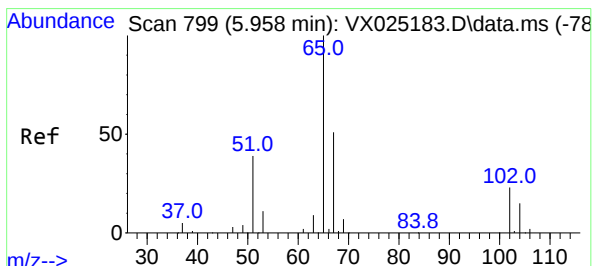
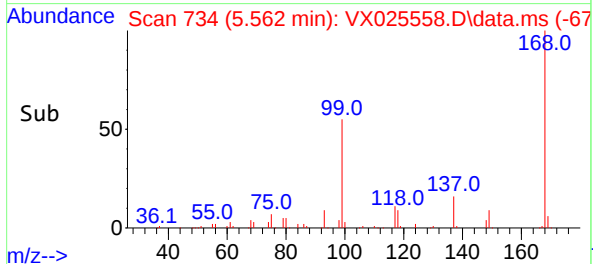
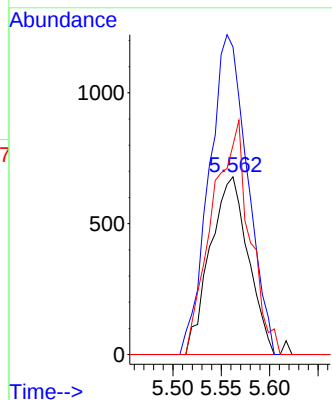
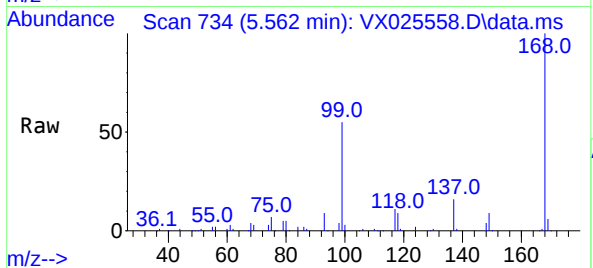




#31  
Cyclohexane  
Concen: 1.172 ug/l  
RT: 5.562 min Scan# 719  
Delta R.T. 0.091 min  
Lab File: VX025558.D  
Acq: 06 Dec 2021 18:51

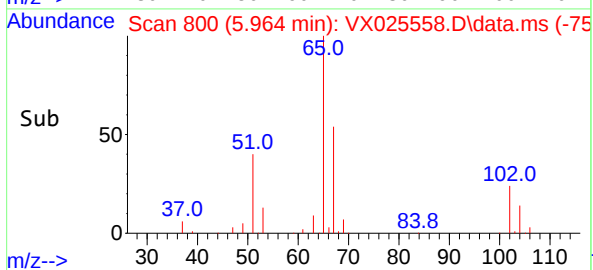
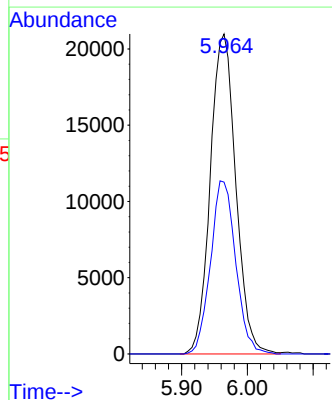
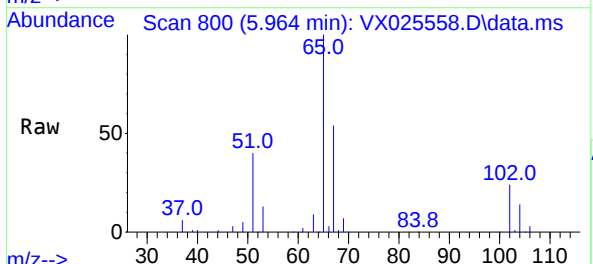
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB141182ZHE#08

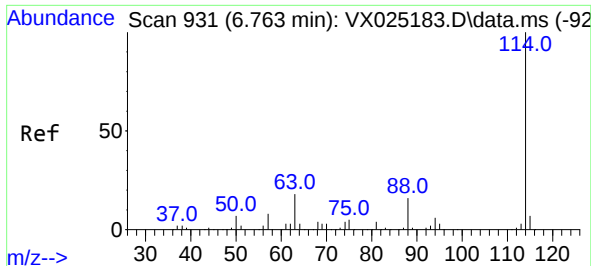
Tgt Ion: 56 Resp: 1860  
Ion Ratio Lower Upper  
56 100  
69 173.0 24.2 36.2#  
84 117.8 71.5 107.3#



#33  
1,2-Dichloroethane-d4  
Concen: 55.177 ug/l  
RT: 5.964 min Scan# 800  
Delta R.T. 0.006 min  
Lab File: VX025558.D  
Acq: 06 Dec 2021 18:51

Tgt Ion: 65 Resp: 56645  
Ion Ratio Lower Upper  
65 100  
67 53.3 0.0 101.0

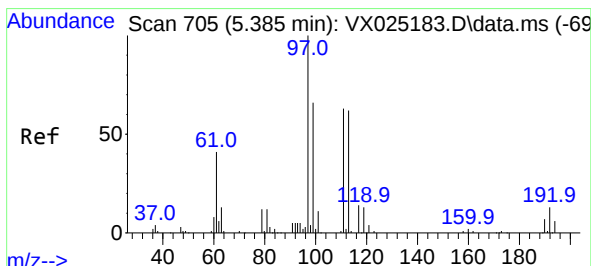
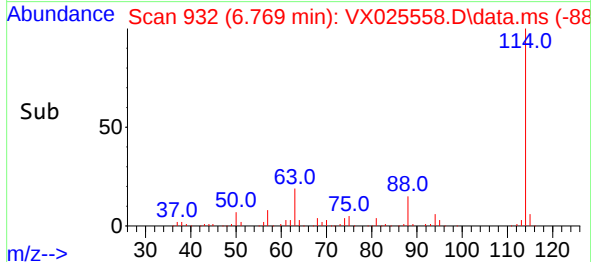
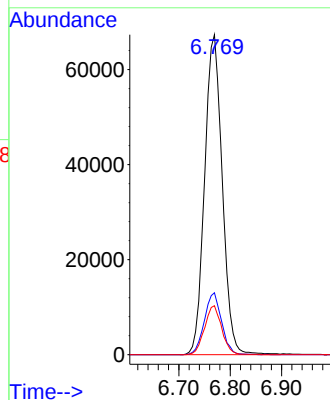
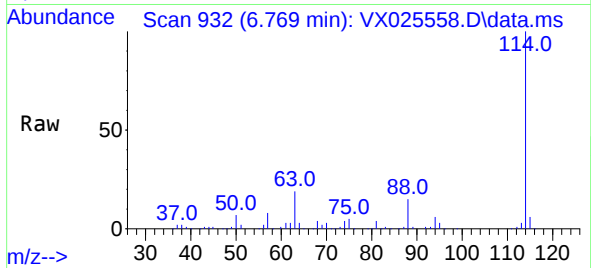




#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 6.769 min Scan# 91  
Delta R.T. 0.006 min  
Lab File: VX025558.D  
Acq: 06 Dec 2021 18:51

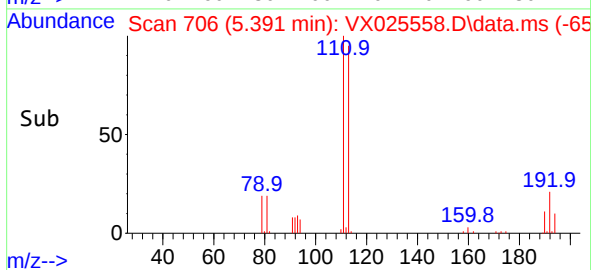
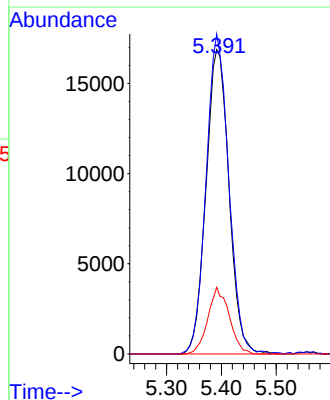
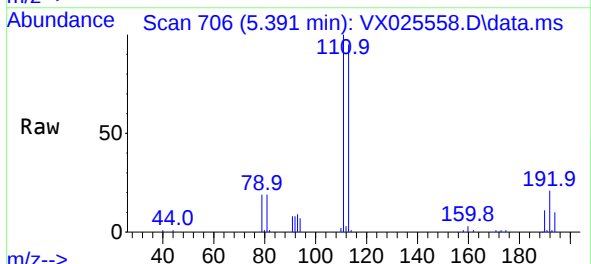
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB141182ZHE#08

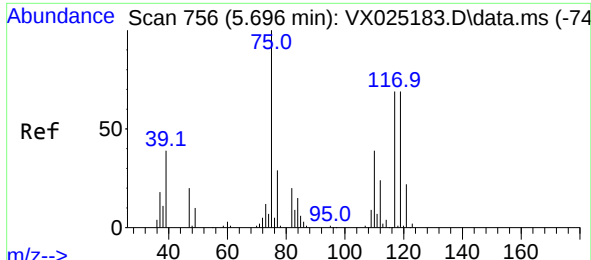
Tgt Ion:114 Resp: 160664  
Ion Ratio Lower Upper  
114 100  
63 19.4 0.0 41.0  
88 15.3 0.0 34.8



#35  
Dibromofluoromethane  
Concen: 49.848 ug/l  
RT: 5.391 min Scan# 706  
Delta R.T. 0.006 min  
Lab File: VX025558.D  
Acq: 06 Dec 2021 18:51

Tgt Ion:113 Resp: 49139  
Ion Ratio Lower Upper  
113 100  
111 103.2 82.1 123.1  
192 20.3 15.6 23.4

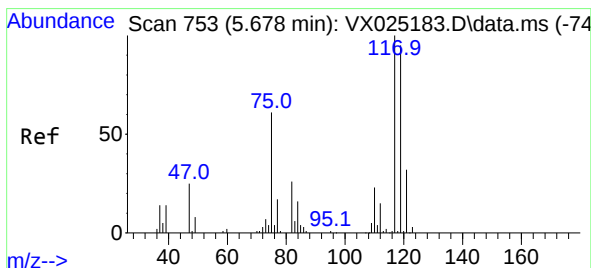
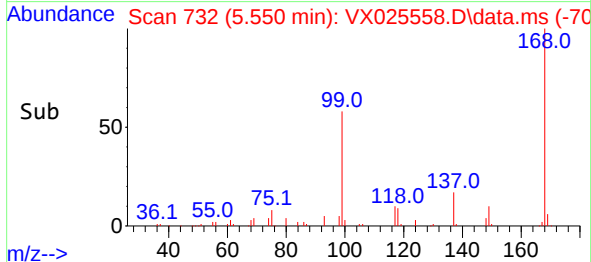
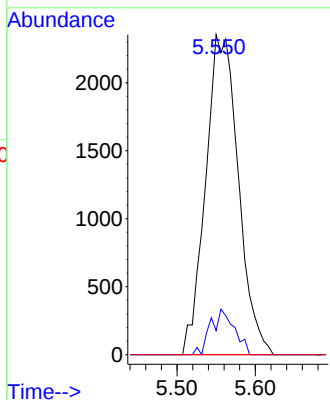
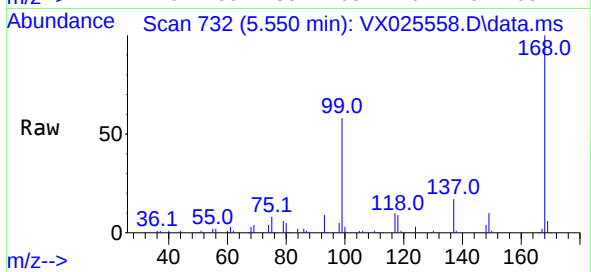




#36  
1,1-Dichloropropene  
Concen: 4.877 ug/l  
RT: 5.550 min Scan# 71  
Delta R.T. -0.146 min  
Lab File: VX025558.D  
Acq: 06 Dec 2021 18:51

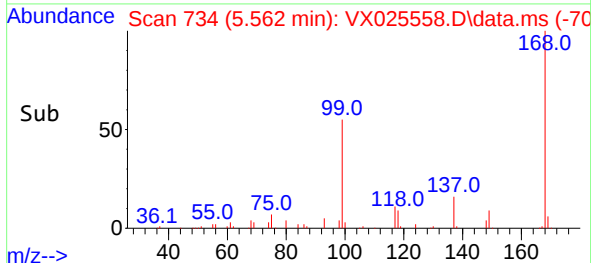
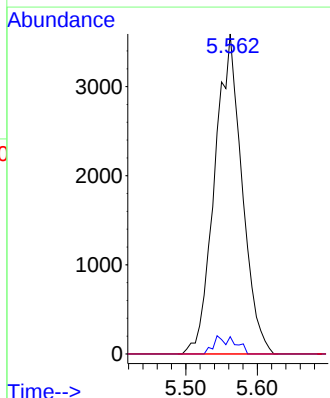
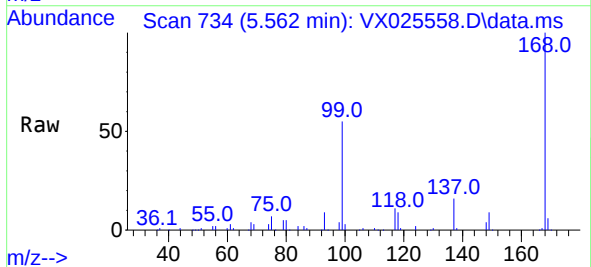
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MSVOA\_X  
ClientSampleId :  
PB141182ZHE#08

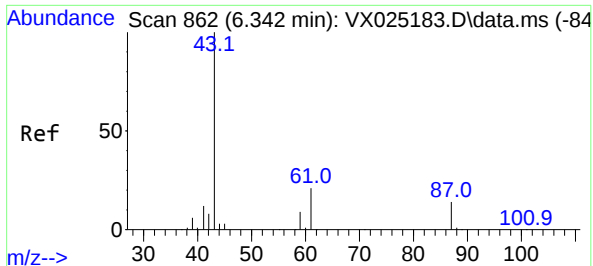
Tgt Ion: 75 Resp: 6836  
Ion Ratio Lower Upper  
75 100  
110 10.2 18.1 54.3#  
77 0.0 24.4 36.6#



#38  
Carbon Tetrachloride  
Concen: 6.189 ug/l  
RT: 5.562 min Scan# 734  
Delta R.T. -0.116 min  
Lab File: VX025558.D  
Acq: 06 Dec 2021 18:51

Tgt Ion: 117 Resp: 9555  
Ion Ratio Lower Upper  
117 100  
119 5.4 75.6 113.4#  
121 0.0 23.7 35.5#

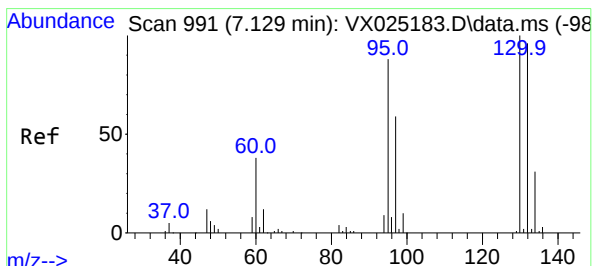
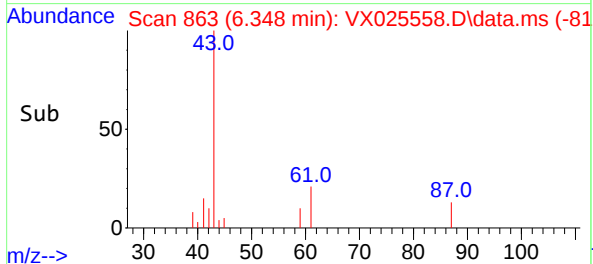
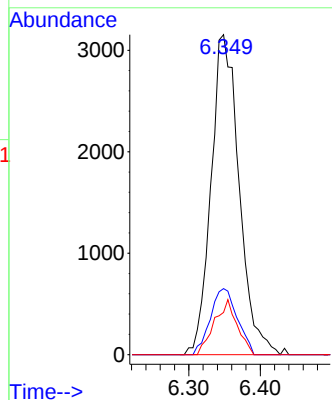
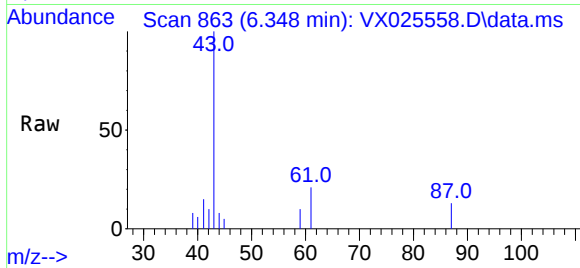




#43  
Isopropyl Acetate  
Concen: 3.239 ug/l  
RT: 6.348 min Scan# 863  
Delta R.T. 0.006 min  
Lab File: VX025558.D  
Acq: 06 Dec 2021 18:51

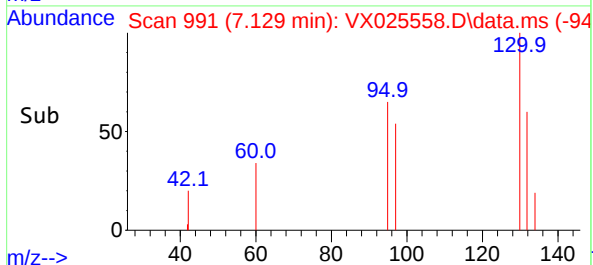
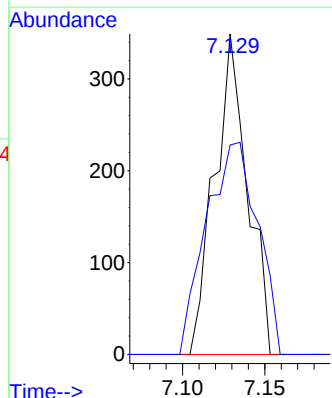
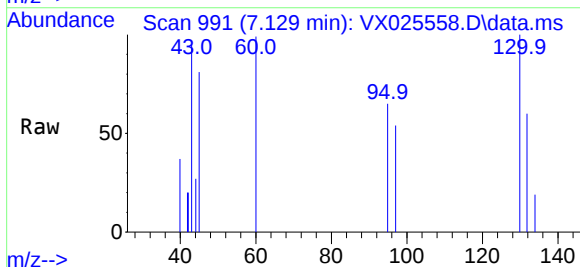
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB141182ZHE#08

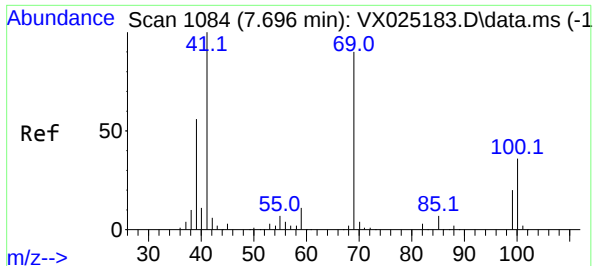
Tgt Ion: 43 Resp: 8598  
Ion Ratio Lower Upper  
43 100  
61 19.8 15.3 22.9  
87 13.9 10.9 16.3



#44  
Trichloroethene  
Concen: 0.394 ug/l  
RT: 7.129 min Scan# 991  
Delta R.T. -0.000 min  
Lab File: VX025558.D  
Acq: 06 Dec 2021 18:51

Tgt Ion: 130 Resp: 486  
Ion Ratio Lower Upper  
130 100  
95 65.3 0.0 196.8





#48

Methyl methacrylate

Concen: 35.582 ug/l

RT: 7.806 min Scan# 1102

Delta R.T. 0.110 min

Lab File: VX025558.D

Acq: 06 Dec 2021 18:51

Instrument :

MSVOA\_X

ClientSampleId :

PB141182ZHE#08

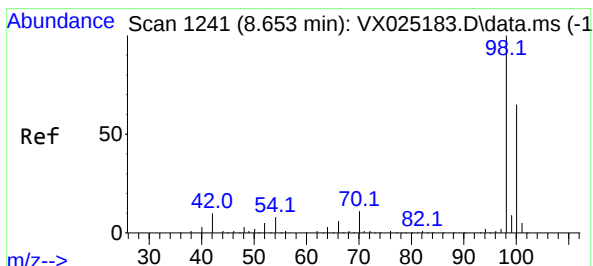
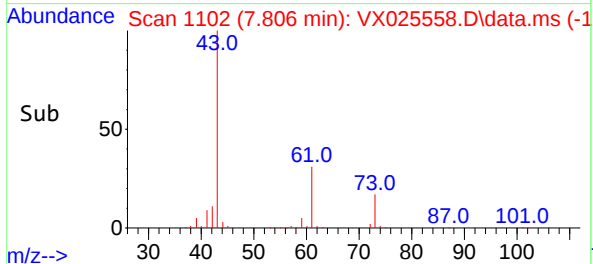
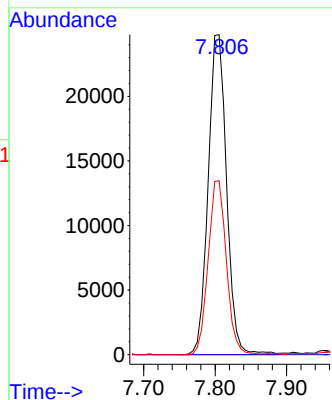
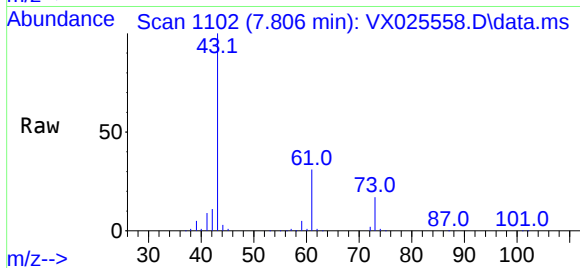
Tgt Ion: 41 Resp: 44323

Ion Ratio Lower Upper

41 100

69 0.0 64.5 96.7#

39 53.7 46.9 70.3



#50

Toluene-d8

Concen: 50.602 ug/l

RT: 8.653 min Scan# 1241

Delta R.T. -0.000 min

Lab File: VX025558.D

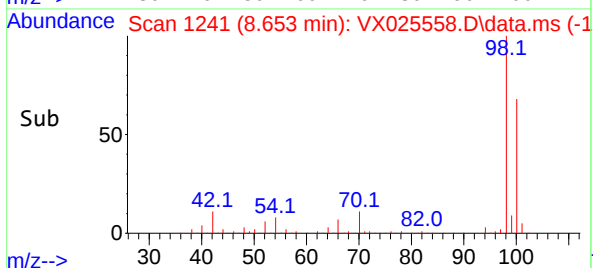
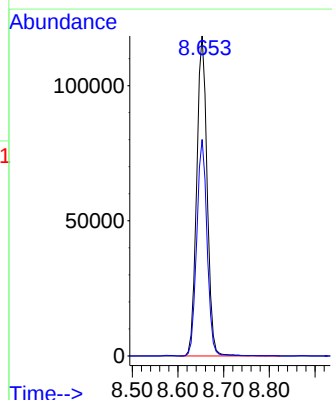
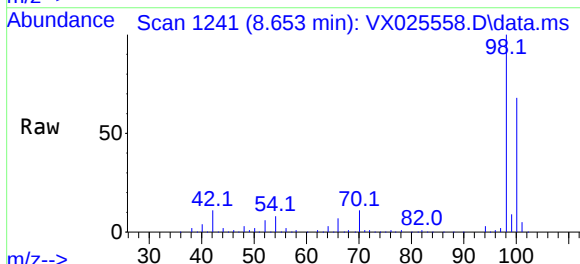
Acq: 06 Dec 2021 18:51

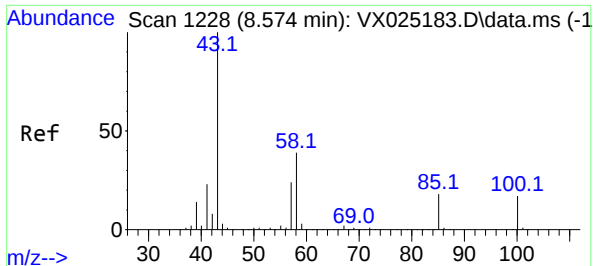
Tgt Ion: 98 Resp: 187551

Ion Ratio Lower Upper

98 100

100 66.9 51.4 77.0

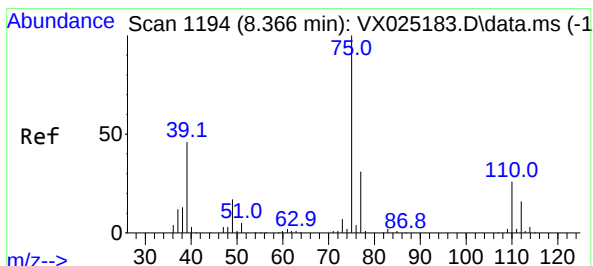
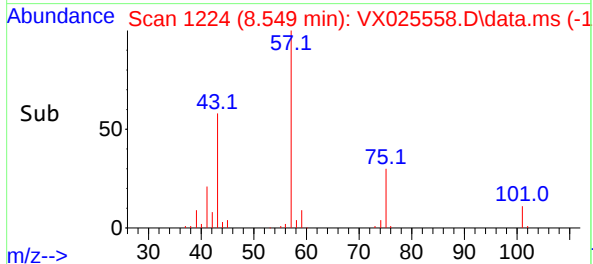
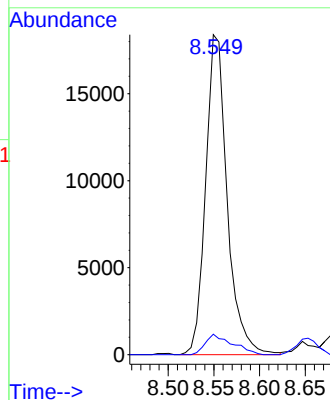
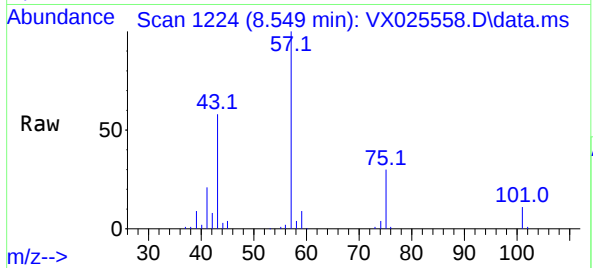




#51  
4-Methyl-2-Pentanone  
Concen: 18.085 ug/l  
RT: 8.549 min Scan# 11  
Delta R.T. -0.025 min  
Lab File: VX025558.D  
Acq: 06 Dec 2021 18:51

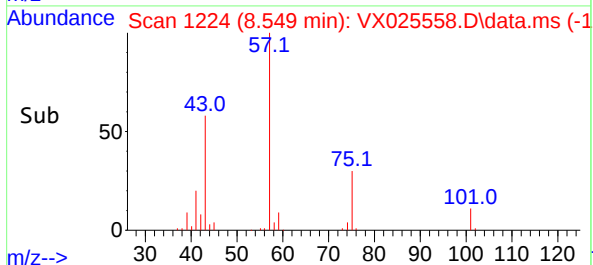
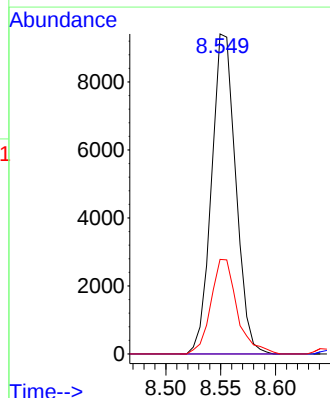
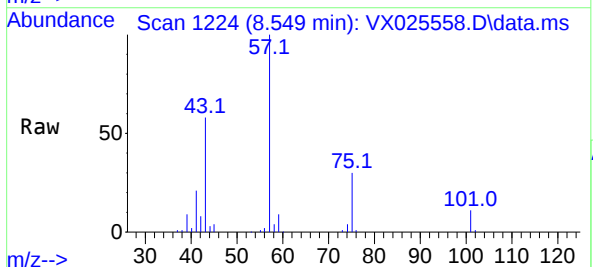
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB141182ZHE#08

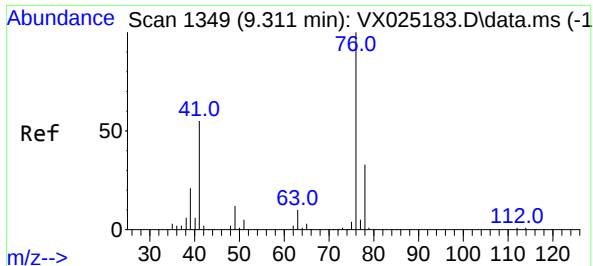
Tgt Ion: 43 Resp: 30099  
Ion Ratio Lower Upper  
43 100  
58 8.0 30.9 46.3#



#54  
cis-1,3-Dichloropropene  
Concen: 8.060 ug/l  
RT: 8.549 min Scan# 1224  
Delta R.T. 0.183 min  
Lab File: VX025558.D  
Acq: 06 Dec 2021 18:51

Tgt Ion: 75 Resp: 14455  
Ion Ratio Lower Upper  
75 100  
77 0.0 23.8 35.8#  
39 29.6 38.8 58.2#

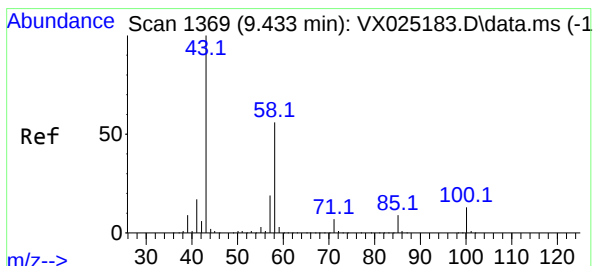
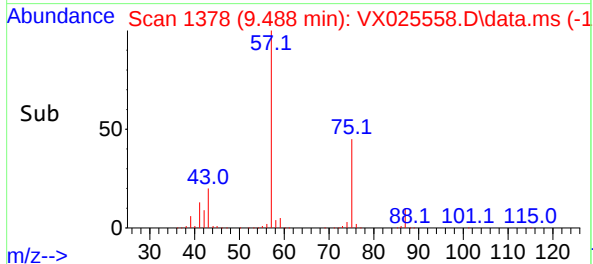
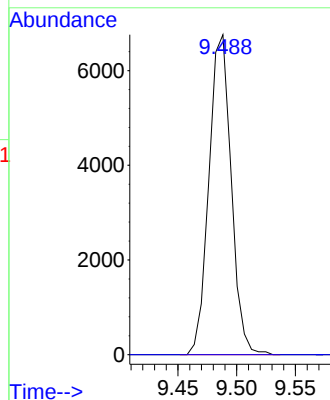
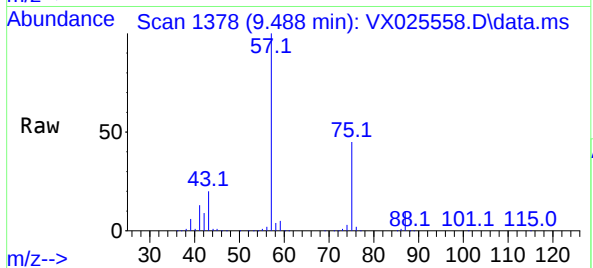




#57  
1,3-Dichloropropane  
Concen: 4.886 ug/l  
RT: 9.488 min Scan# 1378  
Delta R.T. 0.177 min  
Lab File: VX025558.D  
Acq: 06 Dec 2021 18:51

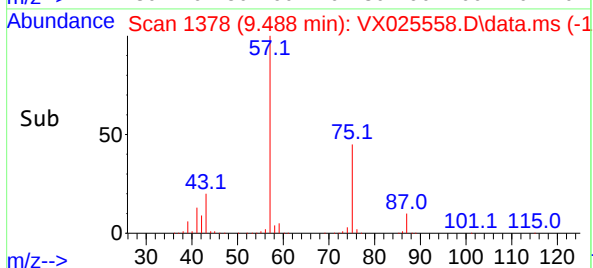
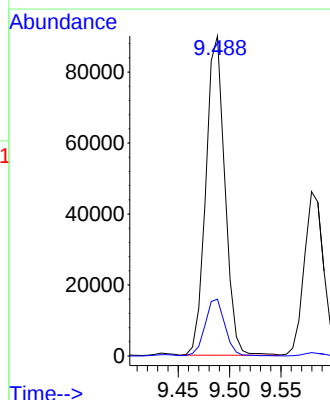
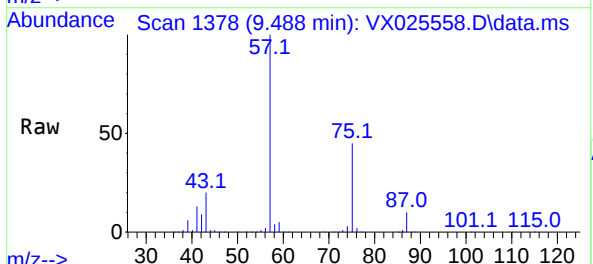
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB141182ZHE#08

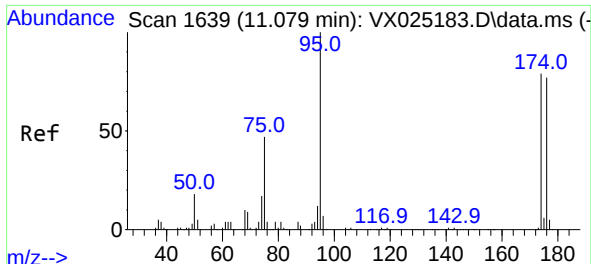
Tgt Ion: 76 Resp: 8923  
Ion Ratio Lower Upper  
76 100  
78 0.0 25.8 38.8#



#59  
2-Hexanone  
Concen: 88.187 ug/l  
RT: 9.488 min Scan# 1378  
Delta R.T. 0.055 min  
Lab File: VX025558.D  
Acq: 06 Dec 2021 18:51

Tgt Ion: 43 Resp: 115707  
Ion Ratio Lower Upper  
43 100  
58 18.7 26.6 79.7#

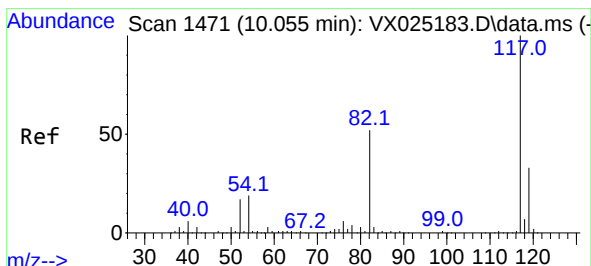
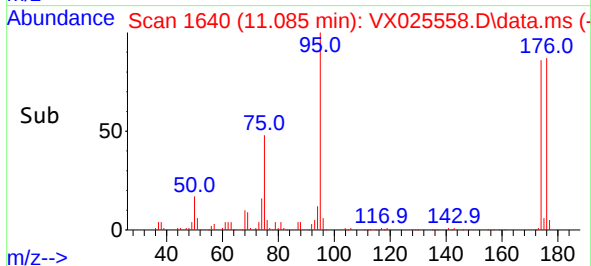
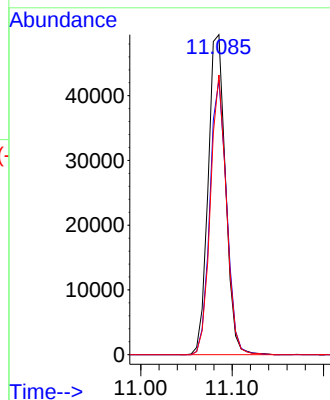
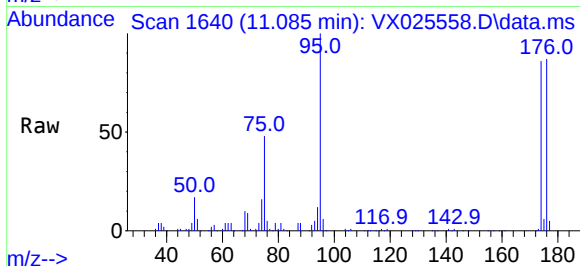




#62  
4-Bromofluorobenzene  
Concen: 46.434 ug/l  
RT: 11.085 min Scan# 1  
Delta R.T. 0.006 min  
Lab File: VX025558.D  
Acq: 06 Dec 2021 18:51

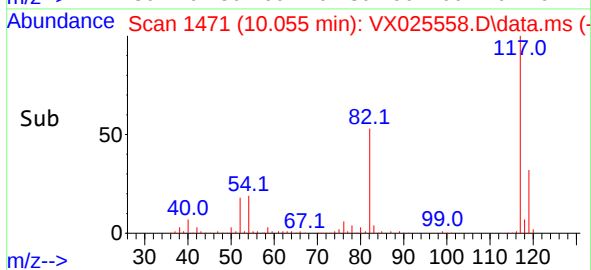
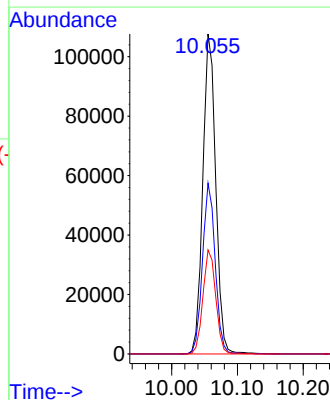
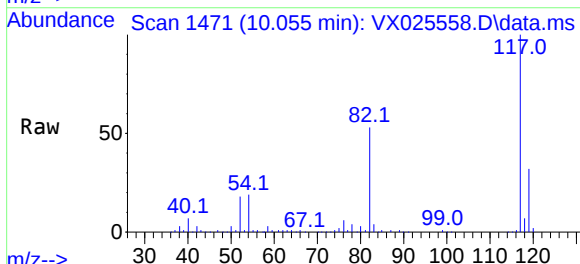
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ClientSampleId :  
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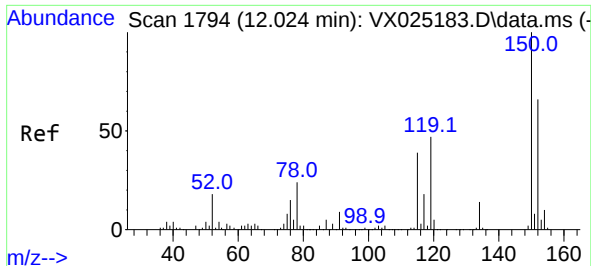
Tgt Ion: 95 Resp: 65108  
Ion Ratio Lower Upper  
95 100  
174 82.9 0.0 158.0  
176 80.7 0.0 153.6



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.055 min Scan# 1471  
Delta R.T. 0.000 min  
Lab File: VX025558.D  
Acq: 06 Dec 2021 18:51

Tgt Ion: 117 Resp: 146841  
Ion Ratio Lower Upper  
117 100  
82 53.3 44.6 67.0  
119 32.5 24.8 37.2

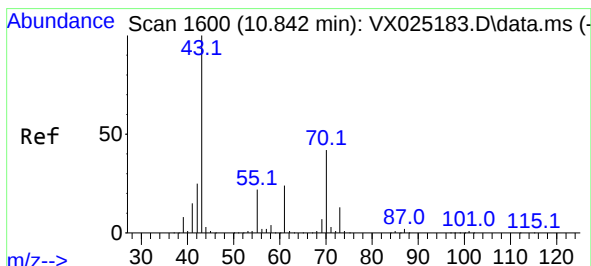
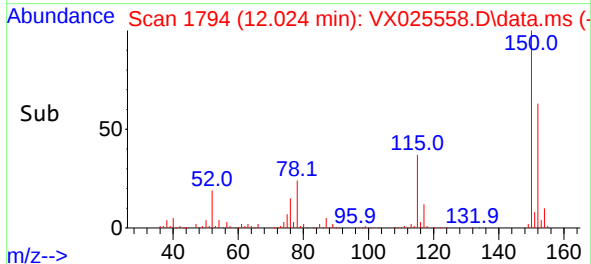
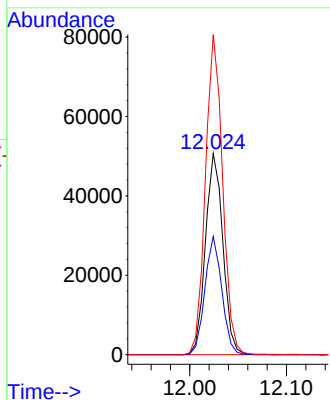
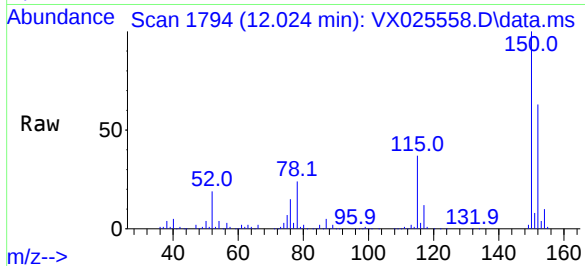




#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.024 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VX025558.D  
Acq: 06 Dec 2021 18:51

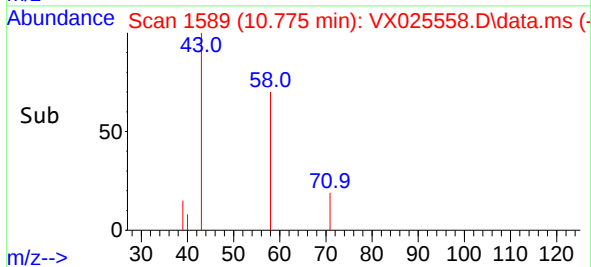
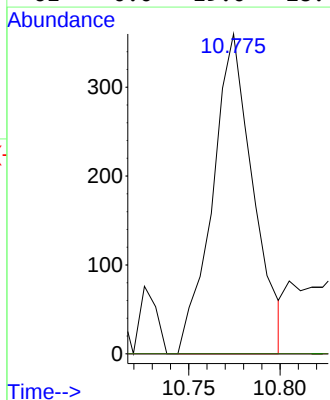
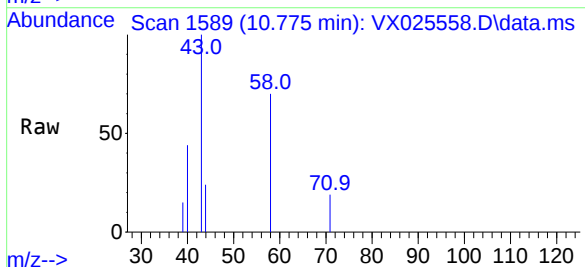
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ClientSampleId :  
PB141182ZHE#08

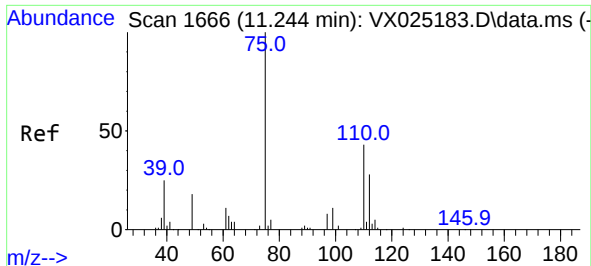
Tgt Ion:152 Resp: 63696  
Ion Ratio Lower Upper  
152 100  
115 56.9 43.3 129.8  
150 156.2 0.0 351.2



#74  
N-ethyl acetate  
Concen: 0.285 ug/l  
RT: 10.775 min Scan# 1589  
Delta R.T. -0.067 min  
Lab File: VX025558.D  
Acq: 06 Dec 2021 18:51

Tgt Ion: 43 Resp: 559  
Ion Ratio Lower Upper  
43 100  
70 0.0 33.7 50.5#  
55 0.0 19.7 29.5#  
61 0.0 19.0 28.4#

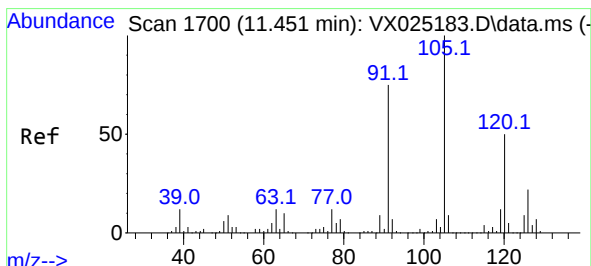
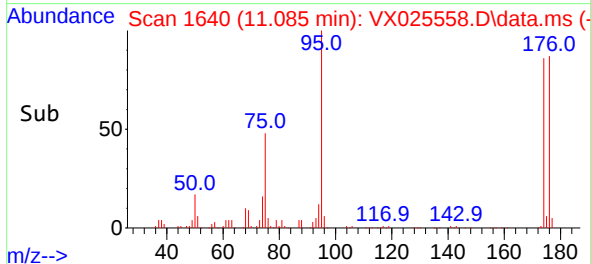
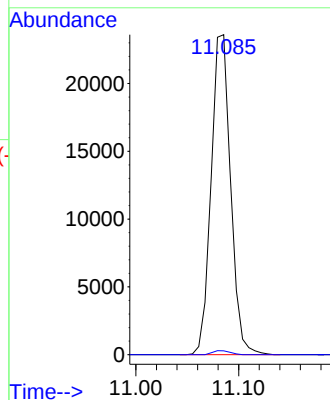
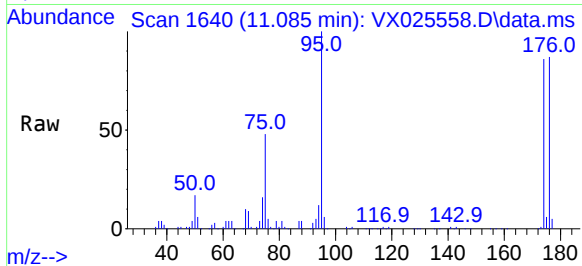




#76  
1,2,3-Trichloropropane  
Concen: 23.869 ug/l  
RT: 11.085 min Scan# 110  
Delta R.T. -0.159 min  
Lab File: VX025558.D  
Acq: 06 Dec 2021 18:51

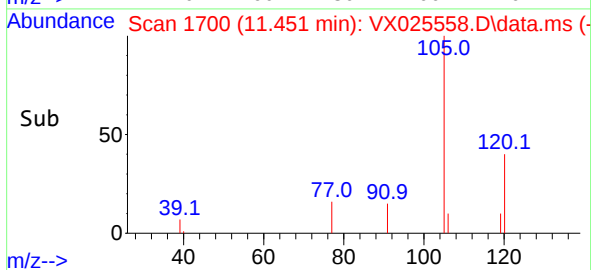
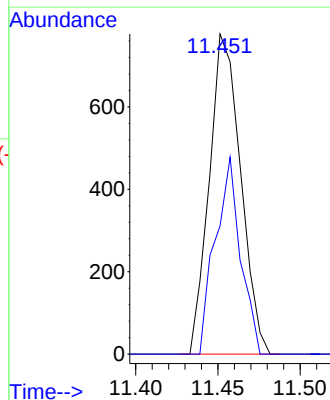
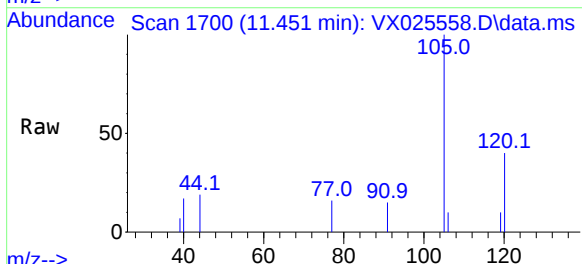
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ClientSampleId :  
PB141182ZHE#08

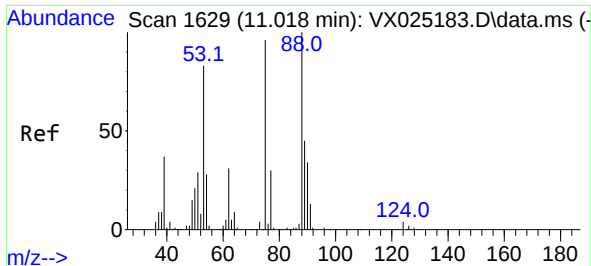
Tgt Ion: 75 Resp: 31134  
Ion Ratio Lower Upper  
75 100  
77 1.1 20.0 59.9#



#80  
1,3,5-Trimethylbenzene  
Concen: 0.269 ug/l  
RT: 11.451 min Scan# 1700  
Delta R.T. 0.000 min  
Lab File: VX025558.D  
Acq: 06 Dec 2021 18:51

Tgt Ion: 105 Resp: 1028  
Ion Ratio Lower Upper  
105 100  
120 49.4 23.8 71.5

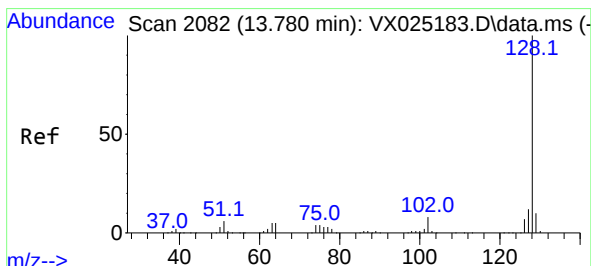
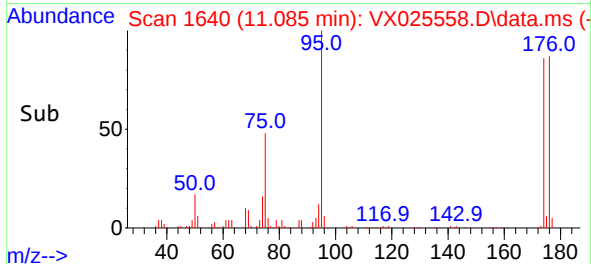
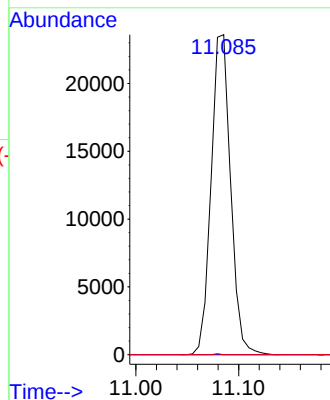
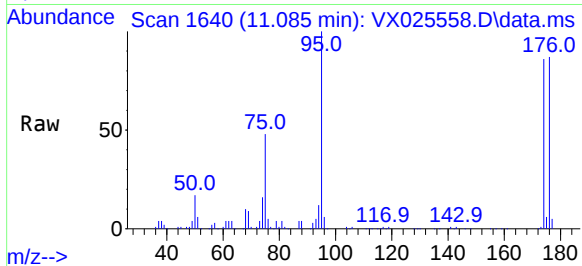




#81  
trans-1,4-Dichloro-2-butene  
Concen: 60.130 ug/l  
RT: 11.085 min Scan# 11  
Delta R.T. 0.067 min  
Lab File: VX025558.D  
Acq: 06 Dec 2021 18:51

Instrument :  
MSVOA\_X  
ClientSampleId :  
PB141182ZHE#08

Tgt Ion: 75 Resp: 31134  
Ion Ratio Lower Upper  
75 100  
53 0.0 81.9 122.9#  
89 0.1 38.2 57.2#



#95  
Naphthalene  
Concen: Below Cal  
RT: 13.780 min Scan# 2082  
Delta R.T. 0.000 min  
Lab File: VX025558.D  
Acq: 06 Dec 2021 18:51

Tgt Ion: 128 Resp: 93  
Ion Ratio Lower Upper  
128 100  
127 0.0 10.3 15.5#  
129 0.0 8.8 13.2#

