

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN040622\  
 Data File : VN071883.D  
 Acq On : 06 Apr 2022 16:43  
 Operator : JC\MD  
 Sample : PB143897ZHE#03  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 PB143897ZHE#03

Quant Time: Apr 07 04:28:47 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N033022W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Mar 31 01:57:54 2022  
 Response via : Initial Calibration

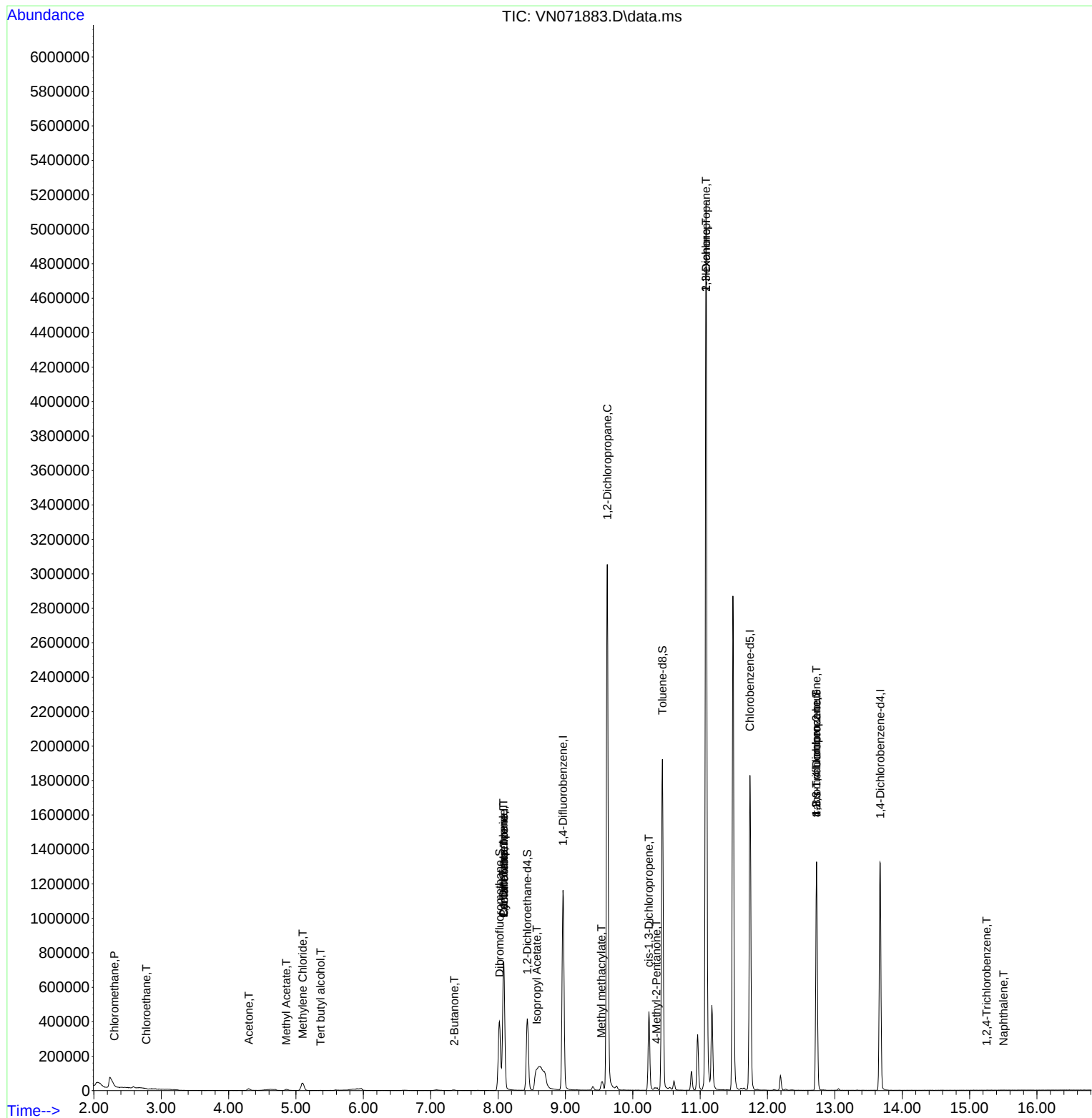
| Compound                      | R.T.           | QIon | Response   | Conc      | Units  | Dev(Min) |
|-------------------------------|----------------|------|------------|-----------|--------|----------|
| -----                         |                |      |            |           |        |          |
| Internal Standards            |                |      |            |           |        |          |
| 1) Pentafluorobenzene         | 8.087          | 168  | 624566     | 50.000    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.963          | 114  | 1091400    | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.739         | 117  | 1125229    | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.674         | 152  | 406933     | 50.000    | ug/l   | 0.00     |
|                               |                |      |            |           |        |          |
| System Monitoring Compounds   |                |      |            |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.434          | 65   | 344414     | 48.304    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 61 - 141 |      | Recovery = | 96.600%   |        |          |
| 35) Dibromofluoromethane      | 8.022          | 113  | 304486     | 47.411    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 69 - 133 |      | Recovery = | 94.820%   |        |          |
| 50) Toluene-d8                | 10.439         | 98   | 1389299    | 52.881    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 65 - 126 |      | Recovery = | 105.760%  |        |          |
| 62) 4-Bromofluorobenzene      | 12.727         | 95   | 465160     | 54.746    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 58 - 135 |      | Recovery = | 109.500%  |        |          |
|                               |                |      |            |           |        |          |
| Target Compounds              |                |      |            |           | Qvalue |          |
| 3) Chloromethane              | 2.305          | 50   | 1816       | 0.289     | ug/l # | 71       |
| 6) Chloroethane               | 2.781          | 64   | 1236       | 0.249     | ug/l # | 49       |
| 11) Tert butyl alcohol        | 5.363          | 59   | 340        | 0.294     | ug/l # | 72       |
| 16) Acetone                   | 4.299          | 43   | 18147      | 5.955     | ug/l   | 100      |
| 18) Methyl Acetate            | 4.857          | 43   | 14706      | 0.449     | ug/l   | 93       |
| 20) Methylene Chloride        | 5.098          | 84   | 38850      | 6.049     | ug/l   | 95       |
| 25) 2-Butanone                | 7.351          | 43   | 7028       | 1.600     | ug/l # | 83       |
| 31) Cyclohexane               | 8.087          | 56   | 10321      | 1.064     | ug/l # | 1        |
| 36) 1,1-Dichloropropene       | 8.081          | 75   | 42443      | 4.732     | ug/l # | 49       |
| 38) Carbon Tetrachloride      | 8.081          | 117  | 56005      | 6.372     | ug/l # | 16       |
| 43) Isopropyl Acetate         | 8.575          | 43   | 129106     | 7.907     | ug/l # | 72       |
| 45) 1,2-Dichloropropane       | 9.622          | 63   | 4511       | 0.637     | ug/l # | 44       |
| 48) Methyl methacrylate       | 9.534          | 41   | 13640      | 2.014     | ug/l # | 10       |
| 49) 1,4-Dioxane               | 9.622          | 88   | 558        | Below Cal | #      | 1        |
| 51) 4-Methyl-2-Pentanone      | 10.351         | 43   | 20344      | 2.167     | ug/l # | 63       |
| 54) cis-1,3-Dichloropropene   | 10.239         | 75   | 92843      | 8.476     | ug/l # | 58       |
| 57) 1,3-Dichloropropane       | 11.086         | 76   | 57433      | 4.661     | ug/l # | 42       |
| 59) 2-Hexanone                | 11.086         | 43   | 725309     | 109.742   | ug/l # | 48       |
| 76) 1,2,3-Trichloropropane    | 12.727         | 75   | 223731     | 23.733    | ug/l # | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.727         | 75   | 223731     | 73.548    | ug/l # | 10       |
| 93) 1,2,4-Trichlorobenzene    | 15.251         | 180  | 58         | 2.094     | ug/l # | 12       |
| 95) Naphthalene               | 15.504         | 128  | 880        | 3.847     | ug/l # | 69       |
| -----                         |                |      |            |           |        |          |

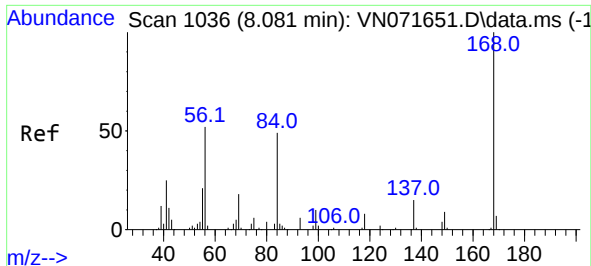
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Sample : PB143897ZHE#03  
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ALS Vial : 14 Sample Multiplier: 1

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ClientSampleId :  
PB143897ZHE#03

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Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N033022W.M  
Quant Title : SW846 8260  
QLast Update : Thu Mar 31 01:57:54 2022  
Response via : Initial Calibration

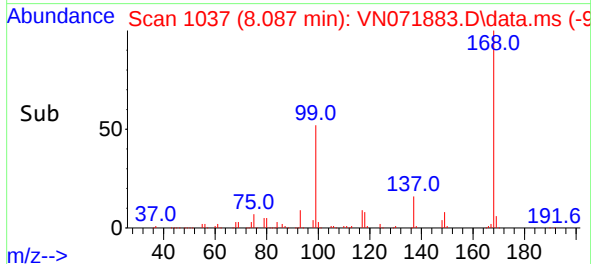
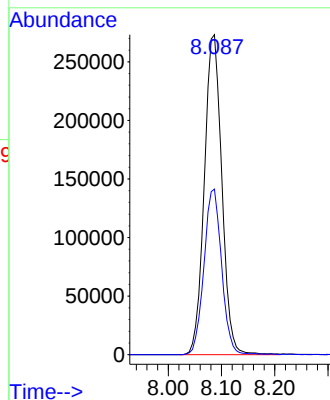
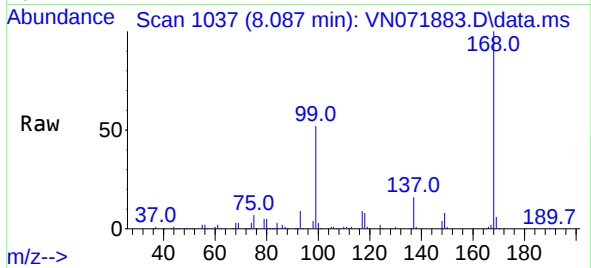




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.087 min Scan# 10  
Delta R.T. 0.006 min  
Lab File: VN071883.D  
Acq: 06 Apr 2022 16:43

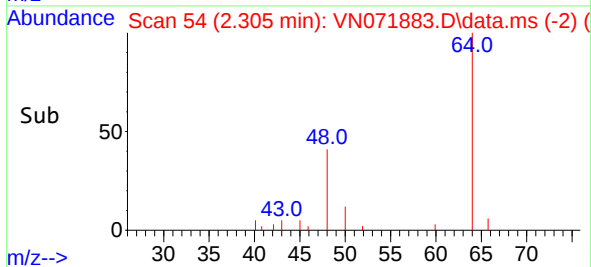
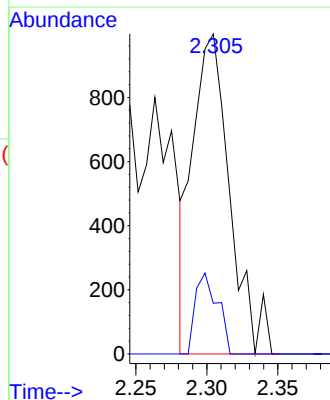
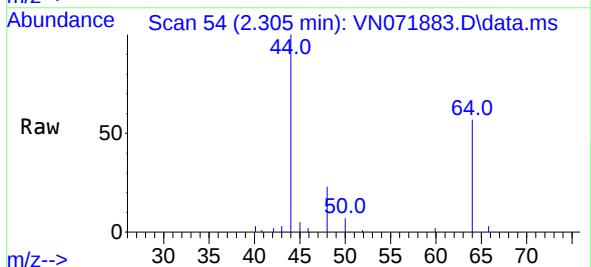
Instrument :  
MSVOA\_N  
ClientSampleId :  
PB143897ZHE#03

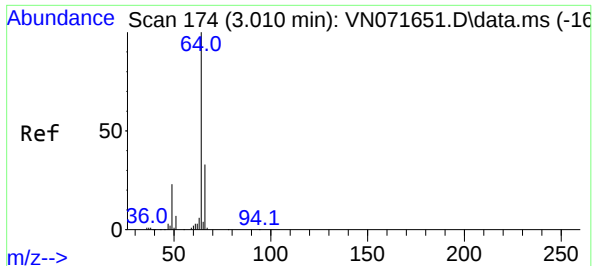
Tgt Ion:168 Resp: 624566  
Ion Ratio Lower Upper  
168 100  
99 51.8 42.3 63.5



#3  
Chloromethane  
Concen: 0.289 ug/l  
RT: 2.305 min Scan# 54  
Delta R.T. 0.006 min  
Lab File: VN071883.D  
Acq: 06 Apr 2022 16:43

Tgt Ion: 50 Resp: 1816  
Ion Ratio Lower Upper  
50 100  
52 15.8 25.7 38.5#

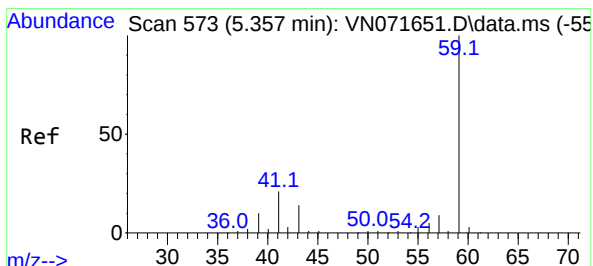
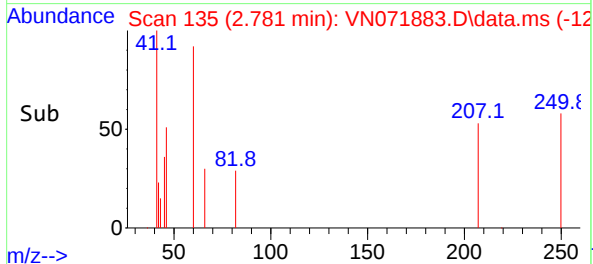
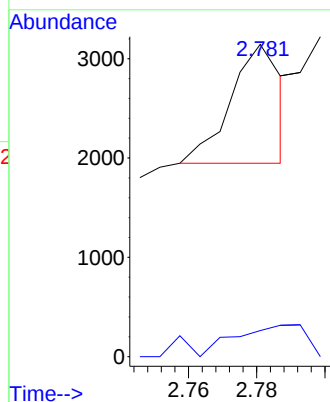
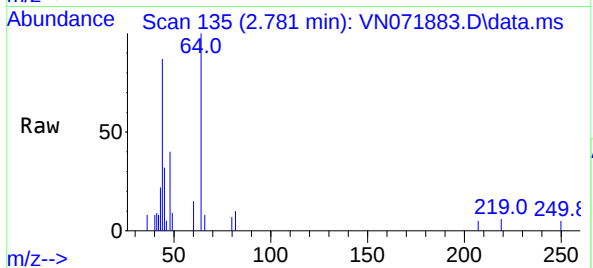




#6  
Chloroethane  
Concen: 0.249 ug/l  
RT: 2.781 min Scan# 11  
Delta R.T. -0.229 min  
Lab File: VN071883.D  
Acq: 06 Apr 2022 16:43

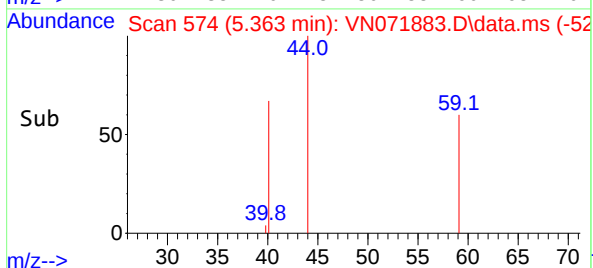
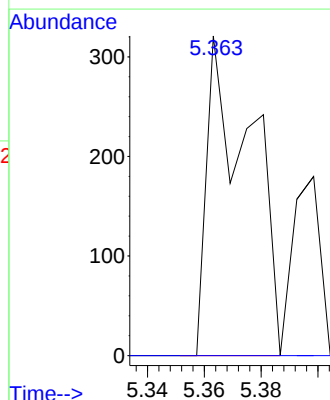
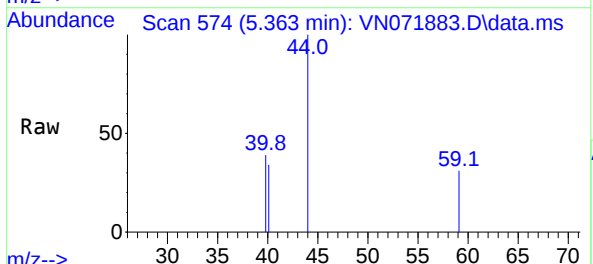
Instrument :  
MSVOA\_N  
ClientSampleId :  
PB143897ZHE#03

Tgt Ion: 64 Resp: 1236  
Ion Ratio Lower Upper  
64 100  
66 4.3 26.2 39.4#



#11  
Tert butyl alcohol  
Concen: 0.294 ug/l  
RT: 5.363 min Scan# 574  
Delta R.T. 0.006 min  
Lab File: VN071883.D  
Acq: 06 Apr 2022 16:43

Tgt Ion: 59 Resp: 340  
Ion Ratio Lower Upper  
59 100  
57 0.0 8.3 12.5#

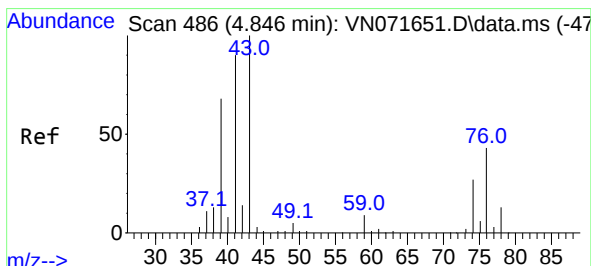
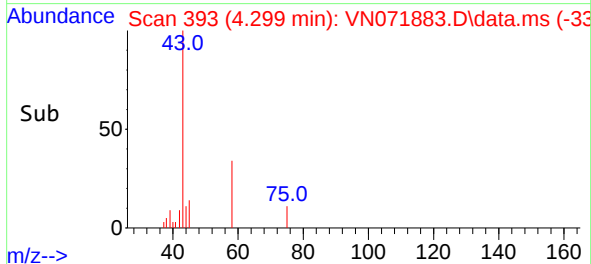
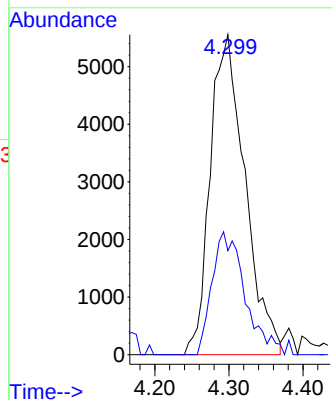
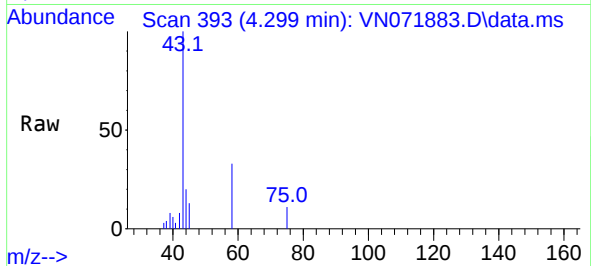




#16  
Acetone  
Concen: 5.955 ug/l  
RT: 4.299 min Scan# 393  
Delta R.T. 0.024 min  
Lab File: VN071883.D  
Acq: 06 Apr 2022 16:43

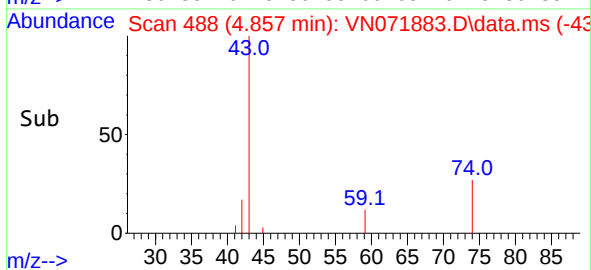
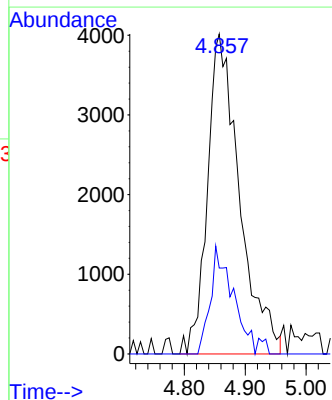
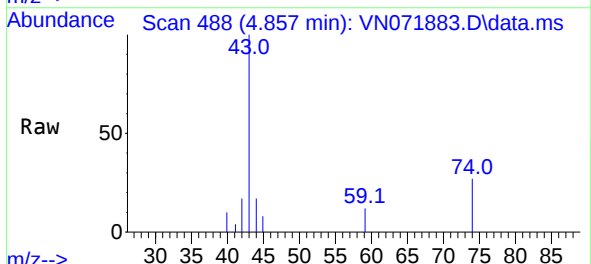
Instrument :  
MSVOA\_N  
ClientSampleId :  
PB143897ZHE#03

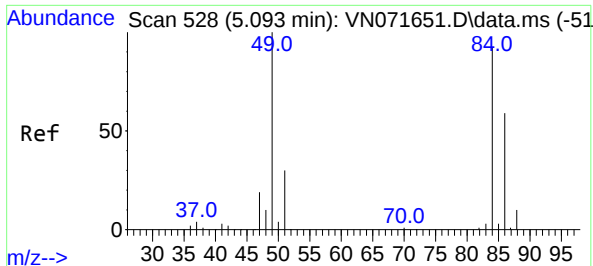
Tgt Ion: 43 Resp: 18147  
Ion Ratio Lower Upper  
43 100  
58 32.5 26.0 39.0



#18  
Methyl Acetate  
Concen: 0.449 ug/l  
RT: 4.857 min Scan# 488  
Delta R.T. 0.011 min  
Lab File: VN071883.D  
Acq: 06 Apr 2022 16:43

Tgt Ion: 43 Resp: 14706  
Ion Ratio Lower Upper  
43 100  
74 23.6 21.6 32.4



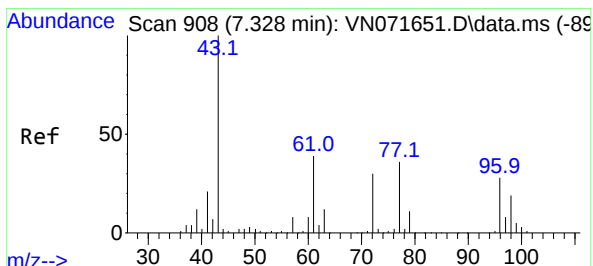
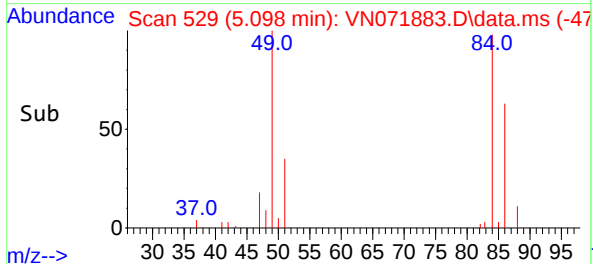
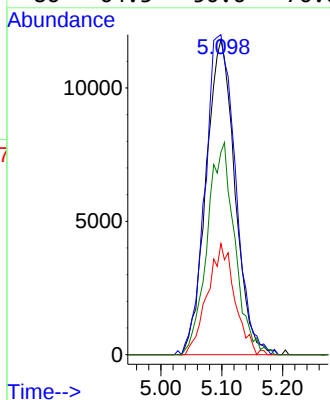
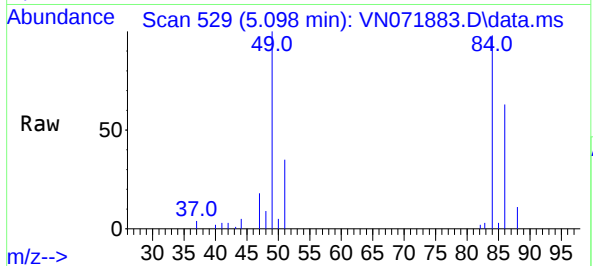


#20  
Methylene Chloride  
Concen: 6.049 ug/l  
RT: 5.098 min Scan# 51  
Delta R.T. 0.005 min  
Lab File: VN071883.D  
Acq: 06 Apr 2022 16:43

Instrument :  
MSVOA\_N  
ClientSampleId :  
PB143897ZHE#03

Tgt Ion: 84 Resp: 38850

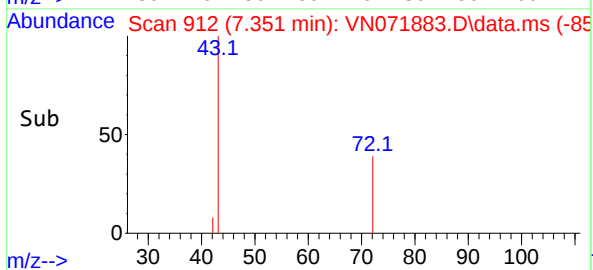
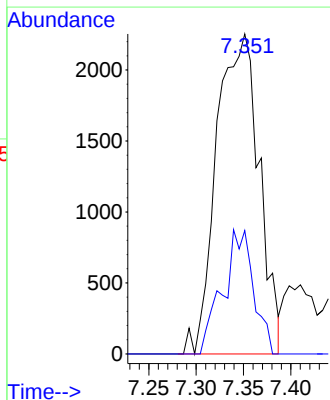
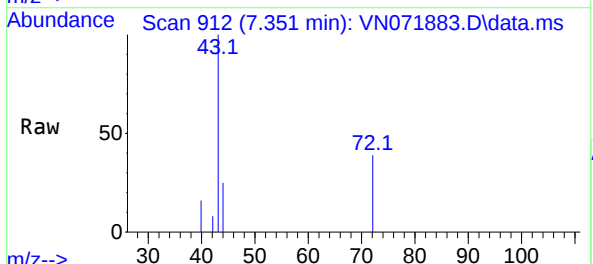
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 84  | 100   |       |       |
| 49  | 101.7 | 88.3  | 132.5 |
| 51  | 35.3  | 28.2  | 42.2  |
| 86  | 64.3  | 50.6  | 76.0  |

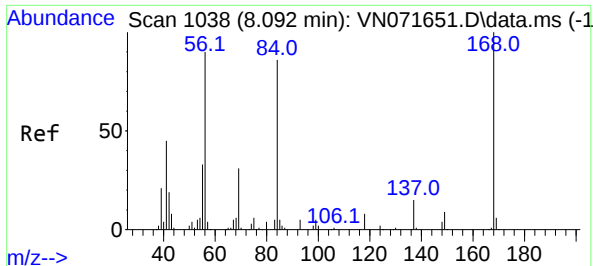


#25  
2-Butanone  
Concen: 1.600 ug/l  
RT: 7.351 min Scan# 912  
Delta R.T. 0.023 min  
Lab File: VN071883.D  
Acq: 06 Apr 2022 16:43

Tgt Ion: 43 Resp: 7028

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 72  | 38.6  | 23.7  | 35.5  |





#31

Cyclohexane

Concen: 1.064 ug/l

RT: 8.087 min Scan# 1037

Delta R.T. -0.005 min

Lab File: VN071883.D

Acq: 06 Apr 2022 16:43

Instrument :

MSVOA\_N

ClientSampleId :

PB143897ZHE#03

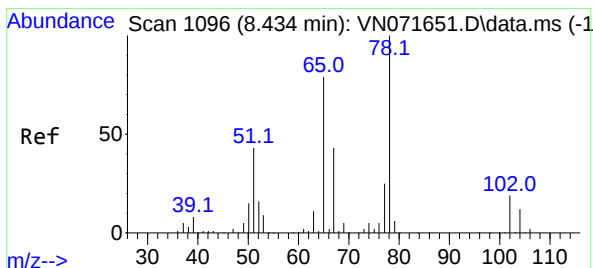
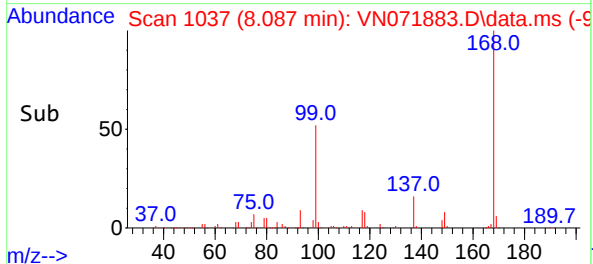
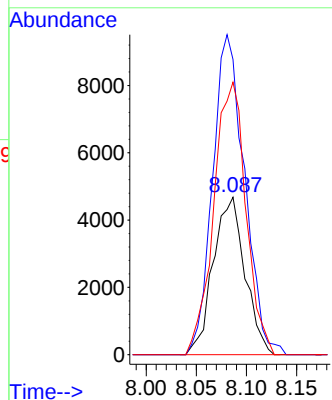
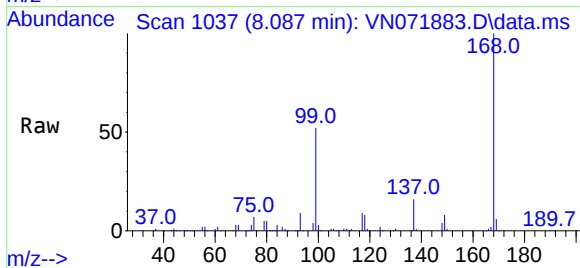
Tgt Ion: 56 Resp: 10321

Ion Ratio Lower Upper

56 100

69 187.5 27.8 41.8#

84 173.0 76.9 115.3#



#33

1,2-Dichloroethane-d4

Concen: 48.304 ug/l

RT: 8.434 min Scan# 1096

Delta R.T. -0.000 min

Lab File: VN071883.D

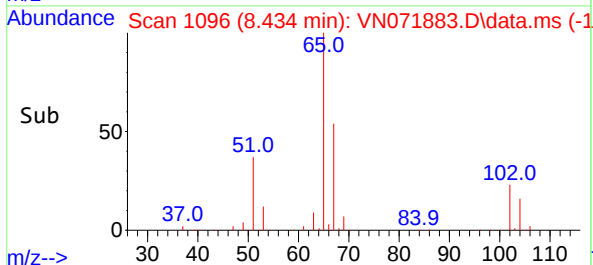
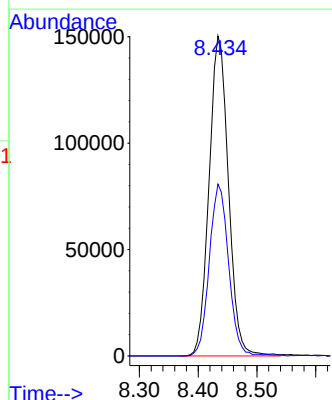
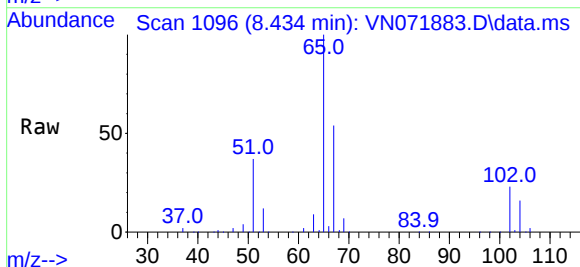
Acq: 06 Apr 2022 16:43

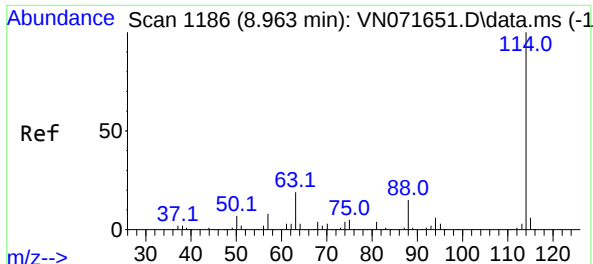
Tgt Ion: 65 Resp: 344414

Ion Ratio Lower Upper

65 100

67 53.7 0.0 104.8

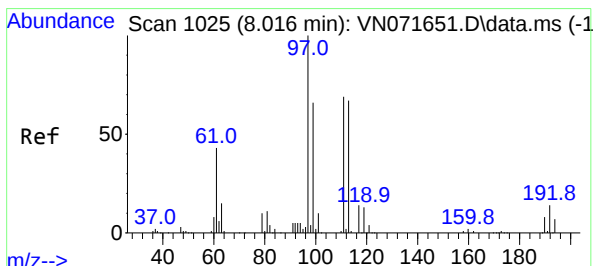
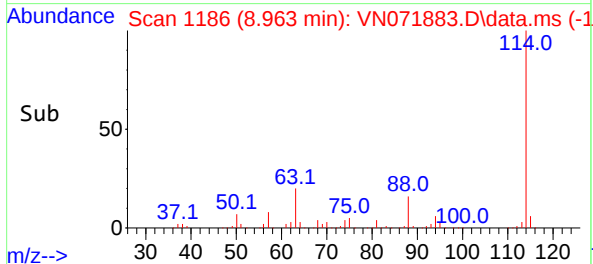
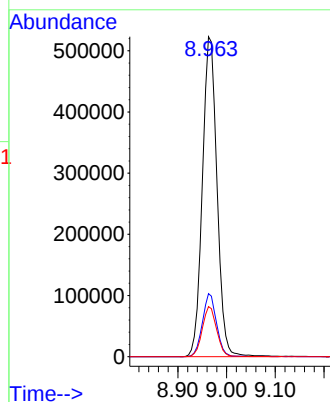
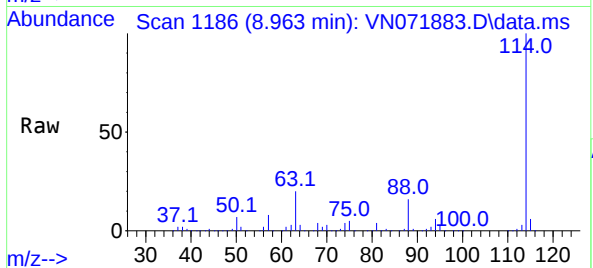




#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 8.963 min Scan# 1186  
Delta R.T. -0.000 min  
Lab File: VN071883.D  
Acq: 06 Apr 2022 16:43

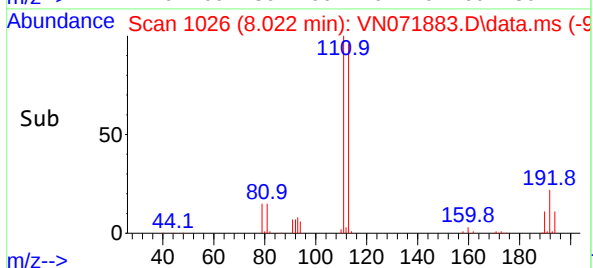
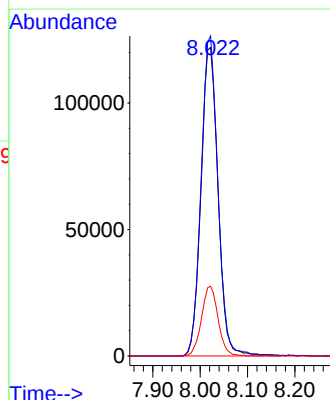
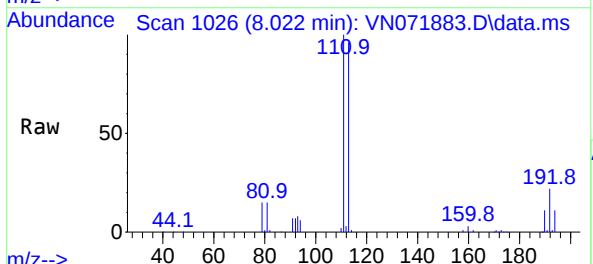
Instrument :  
MSVOA\_N  
ClientSampleId :  
PB143897ZHE#03

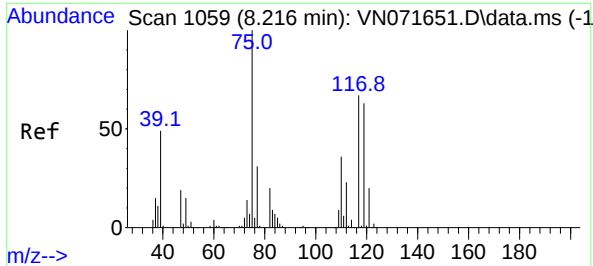
Tgt Ion:114 Resp: 1091400  
Ion Ratio Lower Upper  
114 100  
63 19.7 0.0 40.0  
88 15.7 0.0 32.6



#35  
Dibromofluoromethane  
Concen: 47.411 ug/l  
RT: 8.022 min Scan# 1026  
Delta R.T. 0.006 min  
Lab File: VN071883.D  
Acq: 06 Apr 2022 16:43

Tgt Ion:113 Resp: 304486  
Ion Ratio Lower Upper  
113 100  
111 102.4 81.4 122.0  
192 22.0 17.0 25.6

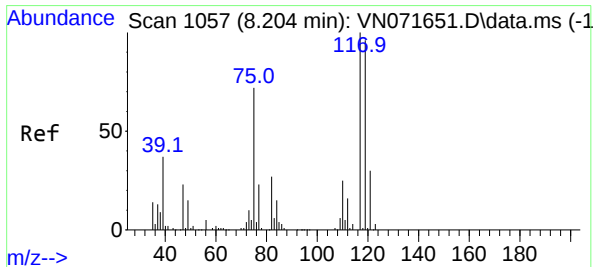
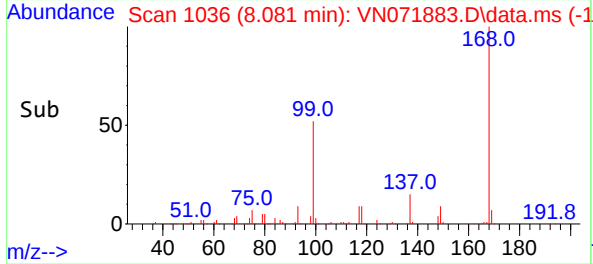
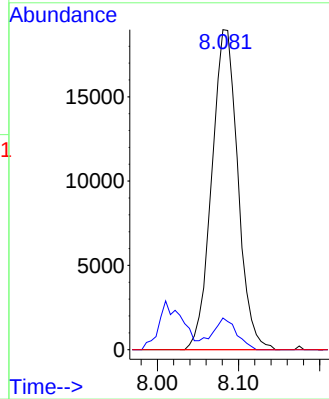
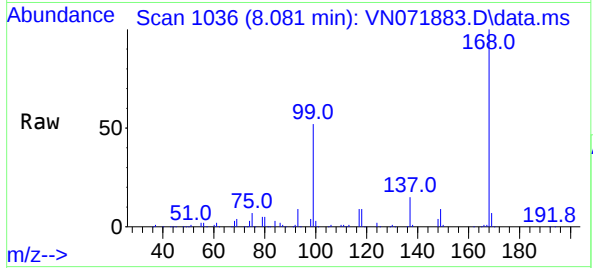




#36  
1,1-Dichloropropene  
Concen: 4.732 ug/l  
RT: 8.081 min Scan# 1036  
Delta R.T. -0.135 min  
Lab File: VN071883.D  
Acq: 06 Apr 2022 16:43

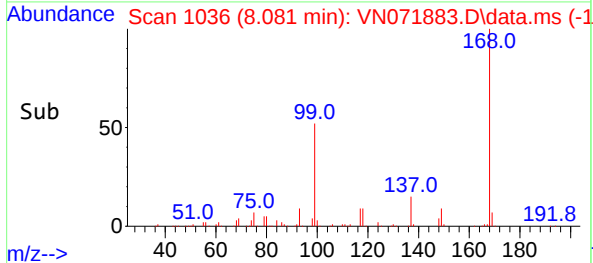
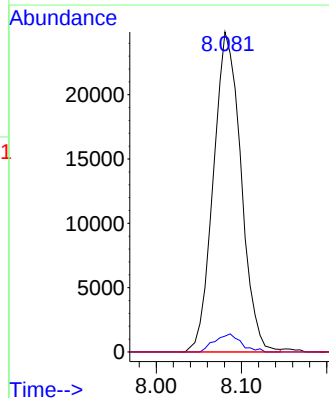
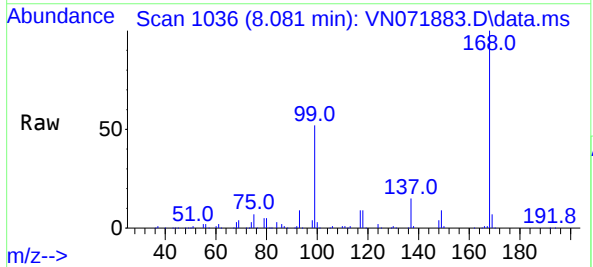
Instrument :  
MSVOA\_N  
ClientSampleId :  
PB143897ZHE#03

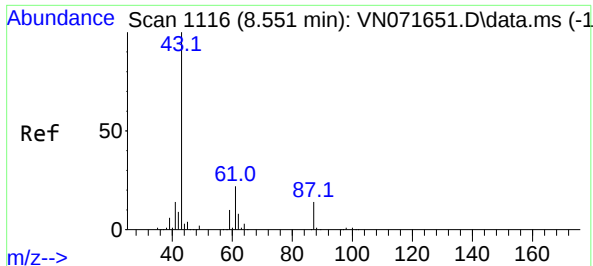
Tgt Ion: 75 Resp: 42443  
Ion Ratio Lower Upper  
75 100  
110 9.1 18.3 54.8#  
77 0.0 25.1 37.7#



#38  
Carbon Tetrachloride  
Concen: 6.372 ug/l  
RT: 8.081 min Scan# 1036  
Delta R.T. -0.123 min  
Lab File: VN071883.D  
Acq: 06 Apr 2022 16:43

Tgt Ion: 117 Resp: 56005  
Ion Ratio Lower Upper  
117 100  
119 5.0 75.8 113.8#  
121 0.0 24.6 37.0#

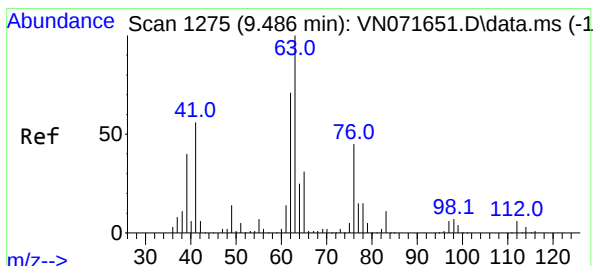
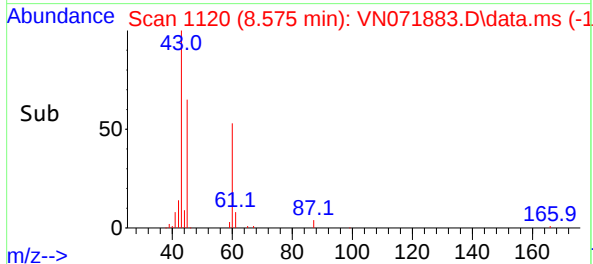
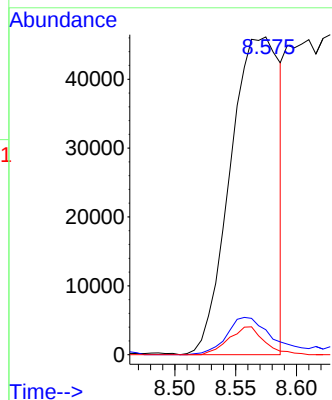
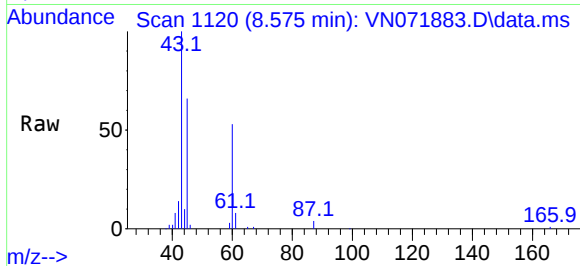




#43  
Isopropyl Acetate  
Concen: 7.907 ug/l  
RT: 8.575 min Scan# 1116  
Delta R.T. 0.024 min  
Lab File: VN071883.D  
Acq: 06 Apr 2022 16:43

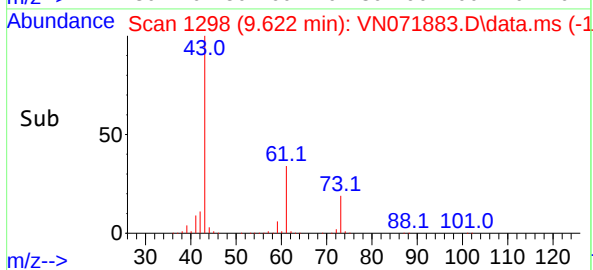
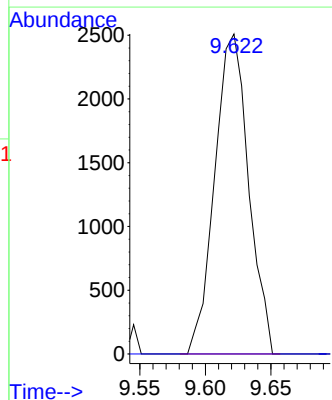
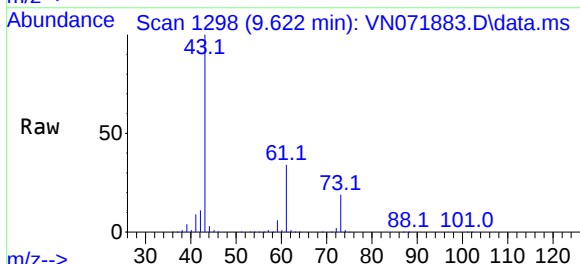
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ClientSampleId :  
PB143897ZHE#03

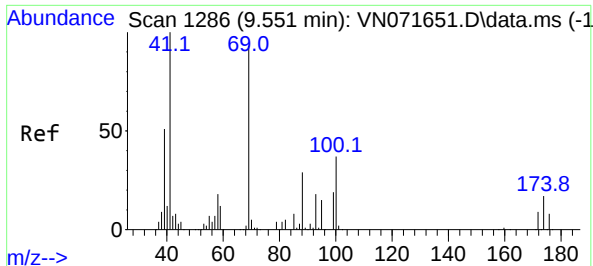
Tgt Ion: 43 Resp: 129106  
Ion Ratio Lower Upper  
43 100  
61 11.0 21.9 32.9#  
87 6.4 12.0 18.0#



#45  
1,2-Dichloropropane  
Concen: 0.637 ug/l  
RT: 9.622 min Scan# 1298  
Delta R.T. 0.136 min  
Lab File: VN071883.D  
Acq: 06 Apr 2022 16:43

Tgt Ion: 63 Resp: 4511  
Ion Ratio Lower Upper  
63 100  
65 0.0 24.9 37.3#





#48

Methyl methacrylate

Concen: 2.014 ug/l

RT: 9.534 min Scan# 1

Delta R.T. -0.018 min

Lab File: VN071883.D

Acq: 06 Apr 2022 16:43

Instrument :

MSVOA\_N

ClientSampleId :

PB143897ZHE#03

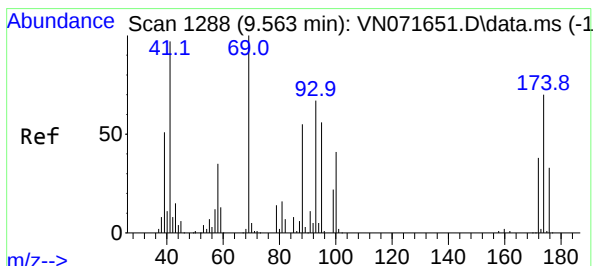
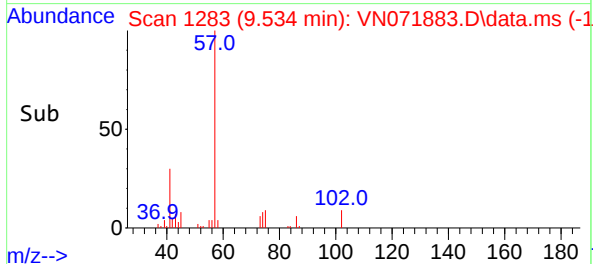
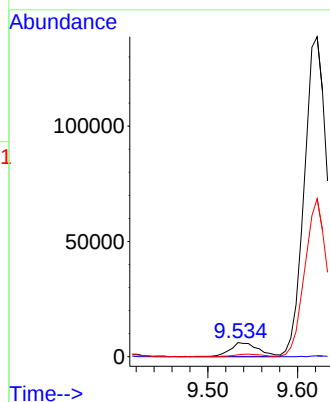
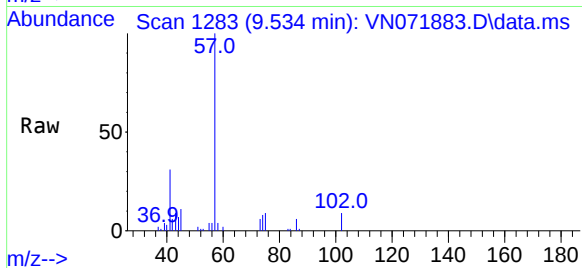
Tgt Ion: 41 Resp: 13640

Ion Ratio Lower Upper

41 100

69 0.0 74.7 112.1#

39 0.0 45.6 68.4#



#49

1,4-Dioxane

Concen: Below Cal

RT: 9.622 min Scan# 1298

Delta R.T. 0.059 min

Lab File: VN071883.D

Acq: 06 Apr 2022 16:43

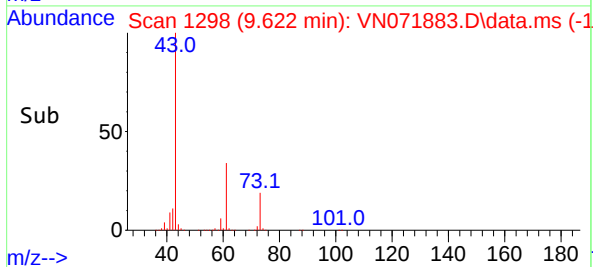
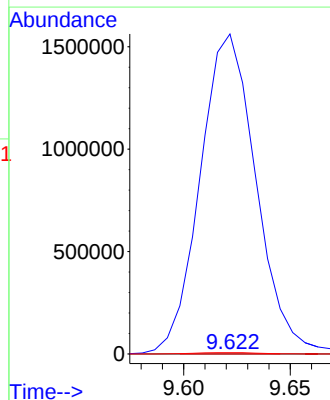
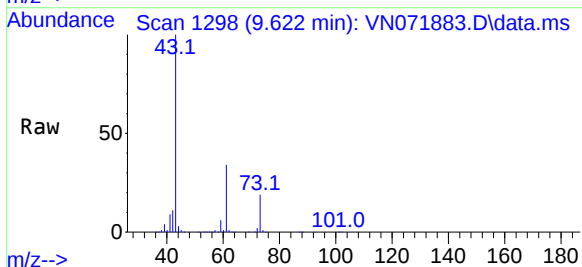
Tgt Ion: 88 Resp: 558

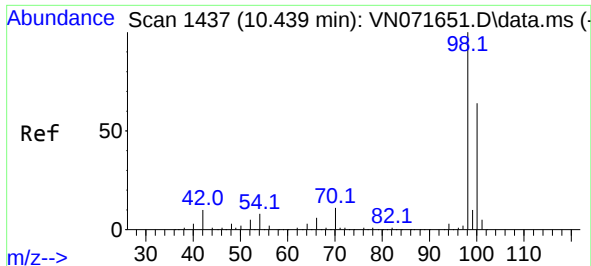
Ion Ratio Lower Upper

88 100

43 520758.6 20.2 30.4#

58 2374.4 54.2 81.4#

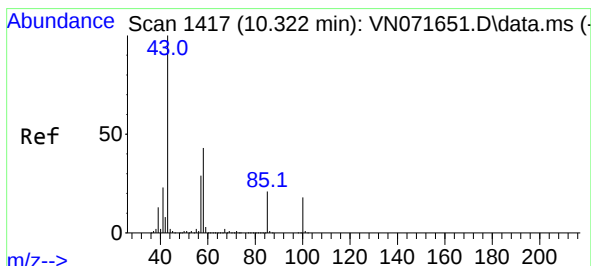
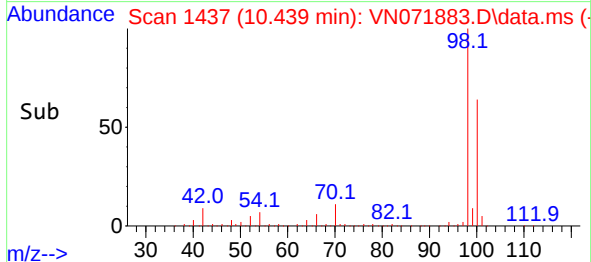
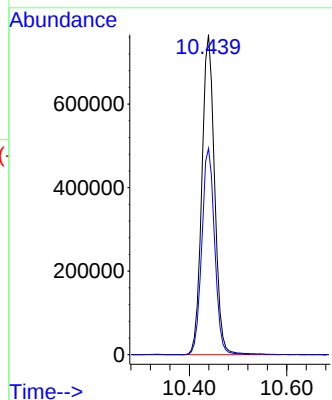
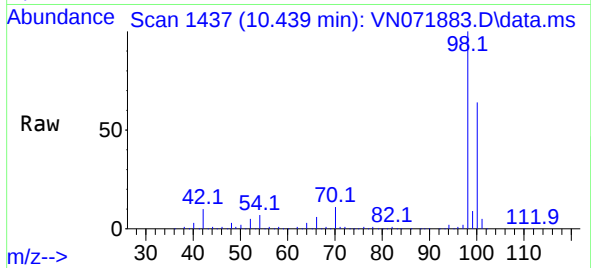




#50  
Toluene-d8  
Concen: 52.881 ug/l  
RT: 10.439 min Scan# 1437  
Delta R.T. 0.000 min  
Lab File: VN071883.D  
Acq: 06 Apr 2022 16:43

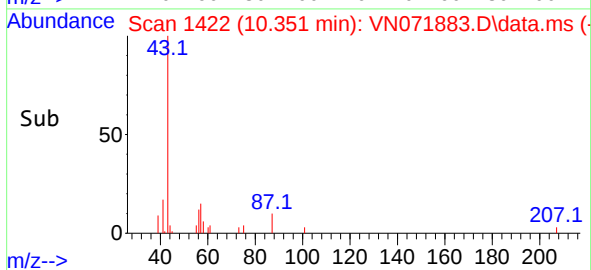
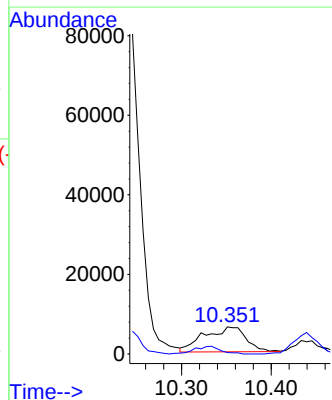
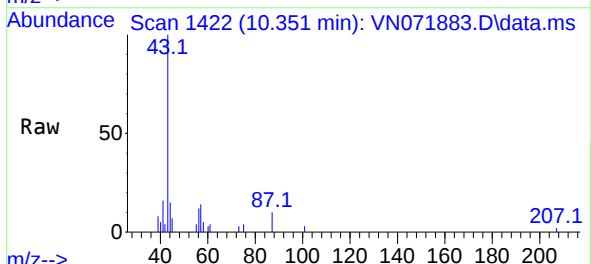
Instrument :  
MSVOA\_N  
ClientSampleId :  
PB143897ZHE#03

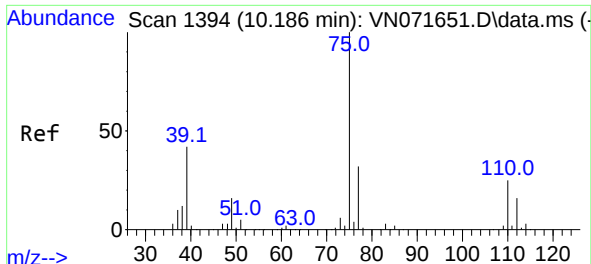
Tgt Ion: 98 Resp: 1389299  
Ion Ratio Lower Upper  
98 100  
100 64.9 52.6 78.8



#51  
4-Methyl-2-Pentanone  
Concen: 2.167 ug/l  
RT: 10.351 min Scan# 1422  
Delta R.T. 0.029 min  
Lab File: VN071883.D  
Acq: 06 Apr 2022 16:43

Tgt Ion: 43 Resp: 20344  
Ion Ratio Lower Upper  
43 100  
58 19.0 34.1 51.1#

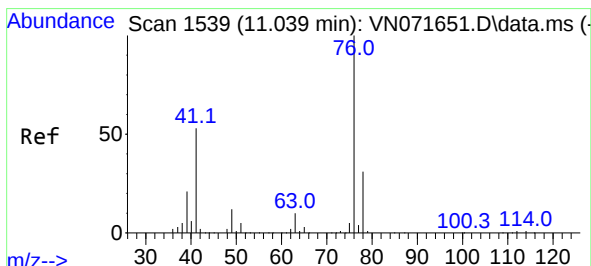
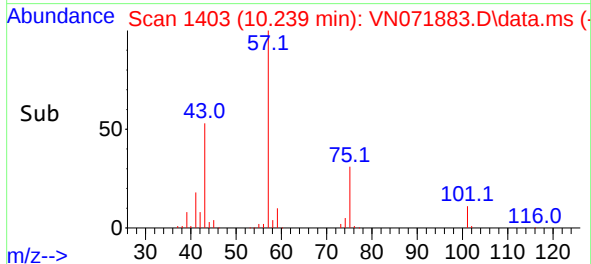
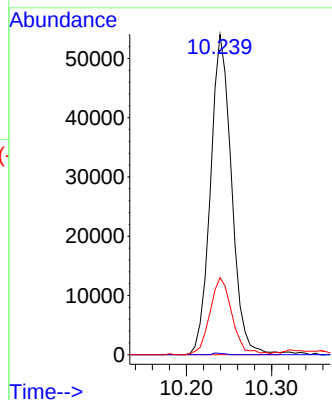
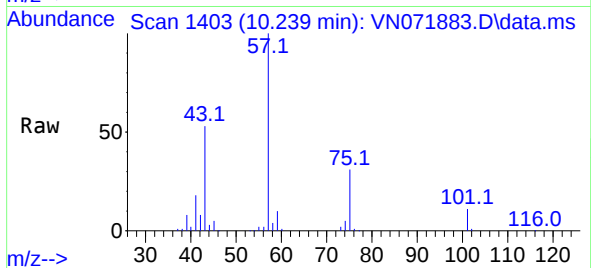




#54  
cis-1,3-Dichloropropene  
Concen: 8.476 ug/l  
RT: 10.239 min Scan# 14  
Delta R.T. 0.053 min  
Lab File: VN071883.D  
Acq: 06 Apr 2022 16:43

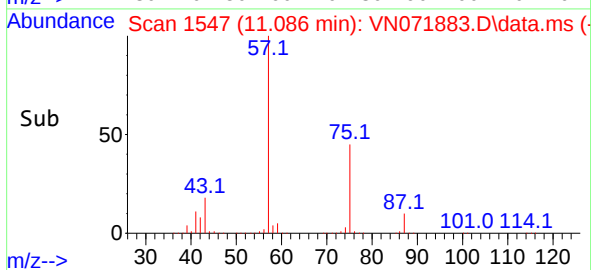
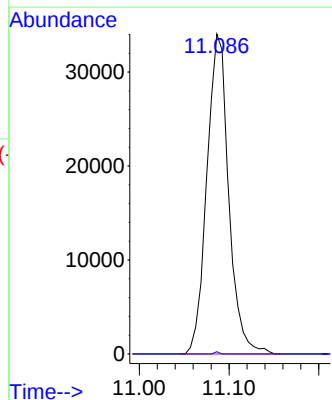
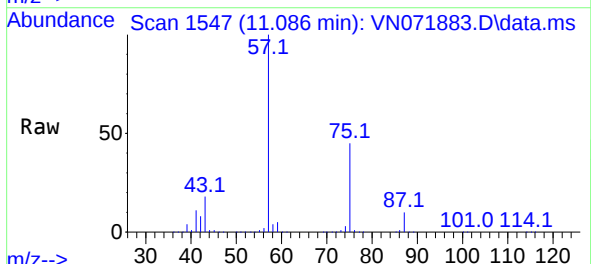
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MSVOA\_N  
ClientSampleId :  
PB143897ZHE#03

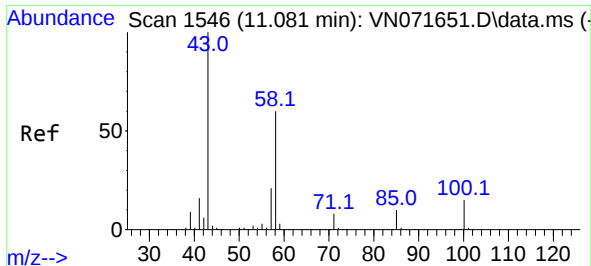
Tgt Ion: 75 Resp: 92843  
Ion Ratio Lower Upper  
75 100  
77 0.4 25.2 37.8#  
39 24.0 35.7 53.5#



#57  
1,3-Dichloropropane  
Concen: 4.661 ug/l  
RT: 11.086 min Scan# 1547  
Delta R.T. 0.047 min  
Lab File: VN071883.D  
Acq: 06 Apr 2022 16:43

Tgt Ion: 76 Resp: 57433  
Ion Ratio Lower Upper  
76 100  
78 0.1 26.2 39.2#

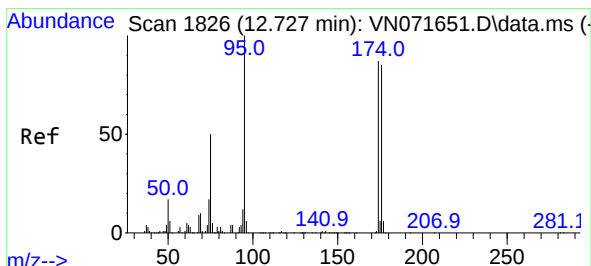
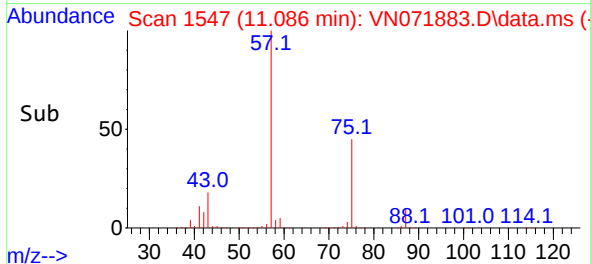
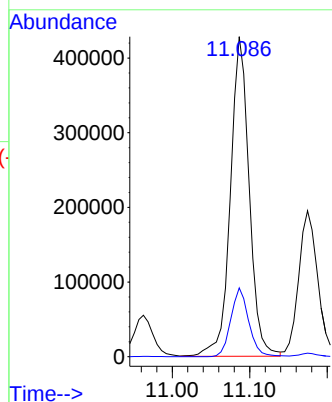
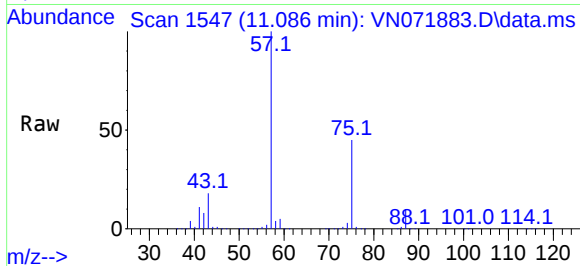




#59  
2-Hexanone  
Concen: 109.742 ug/l  
RT: 11.086 min Scan# 1154  
Delta R.T. 0.005 min  
Lab File: VN071883.D  
Acq: 06 Apr 2022 16:43

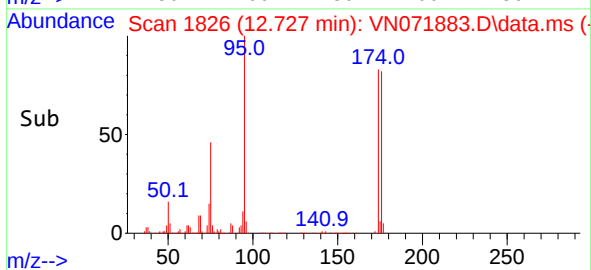
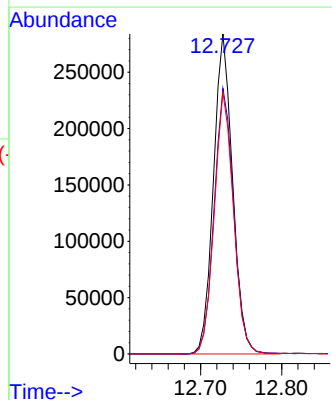
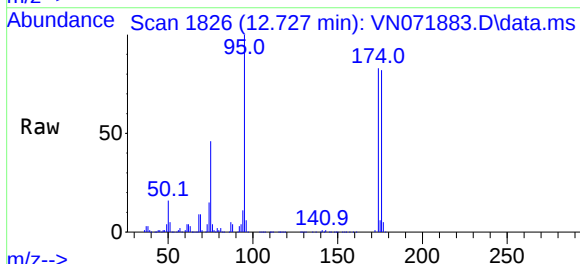
Instrument :  
MSVOA\_N  
ClientSampleId :  
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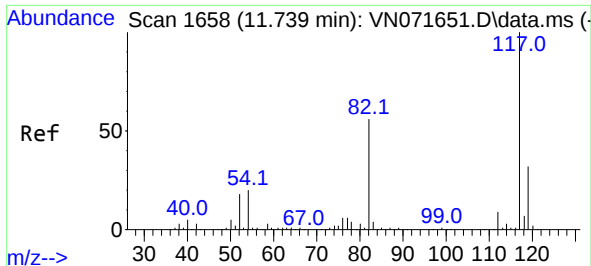
Tgt Ion: 43 Resp: 725309  
Ion Ratio Lower Upper  
43 100  
58 20.5 29.7 89.1#



#62  
4-Bromofluorobenzene  
Concen: 54.746 ug/l  
RT: 12.727 min Scan# 1826  
Delta R.T. 0.000 min  
Lab File: VN071883.D  
Acq: 06 Apr 2022 16:43

Tgt Ion: 95 Resp: 465160  
Ion Ratio Lower Upper  
95 100  
174 84.9 0.0 167.6  
176 82.3 0.0 163.4

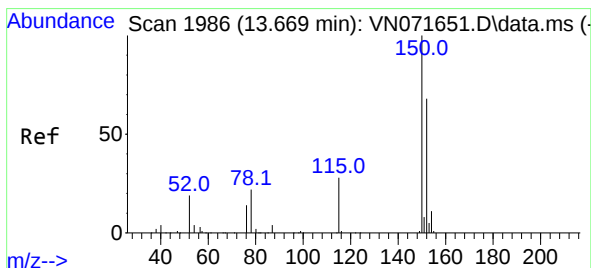
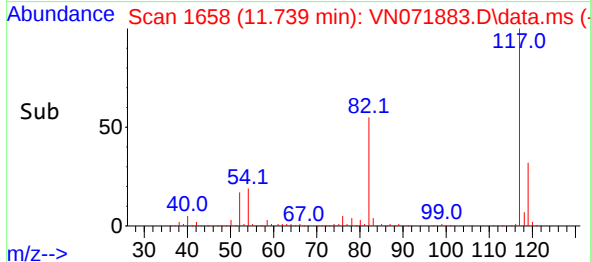
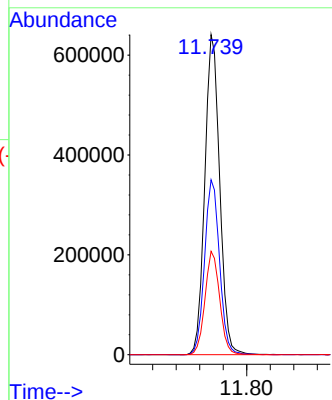
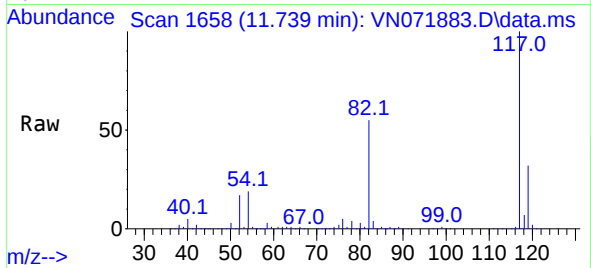




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.739 min Scan# 117  
Delta R.T. 0.000 min  
Lab File: VN071883.D  
Acq: 06 Apr 2022 16:43

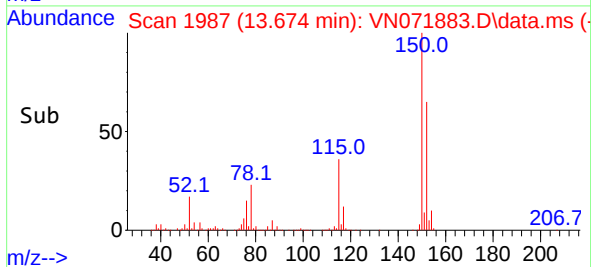
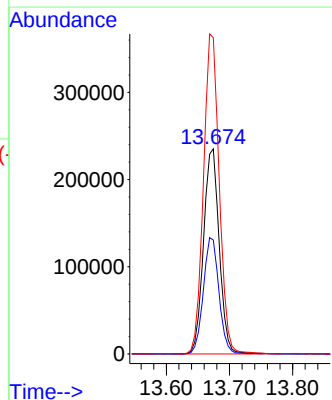
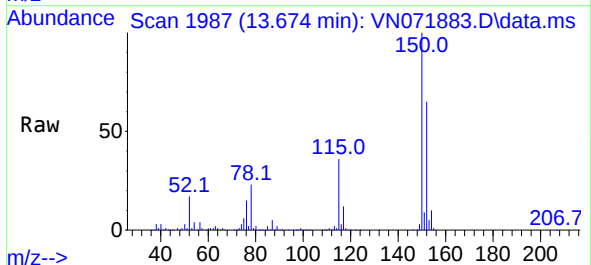
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MSVOA\_N  
ClientSampleId :  
PB143897ZHE#03

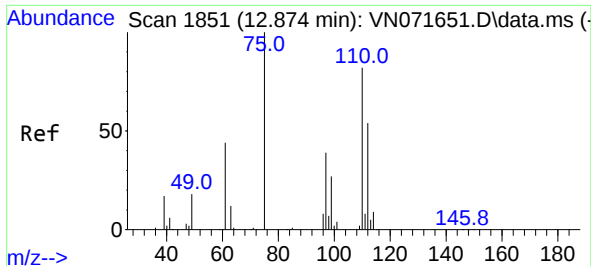
Tgt Ion:117 Resp: 1125229  
Ion Ratio Lower Upper  
117 100  
82 54.7 44.2 66.2  
119 32.3 25.4 38.0



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.674 min Scan# 1987  
Delta R.T. 0.005 min  
Lab File: VN071883.D  
Acq: 06 Apr 2022 16:43

Tgt Ion:152 Resp: 406933  
Ion Ratio Lower Upper  
152 100  
115 56.4 28.9 86.7  
150 156.7 0.0 356.2

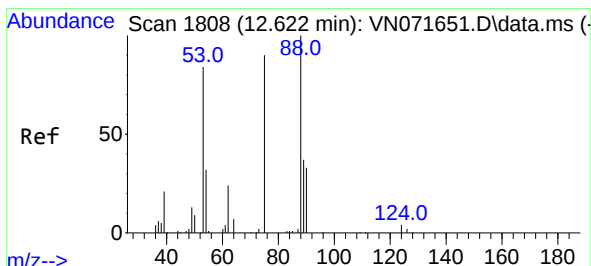
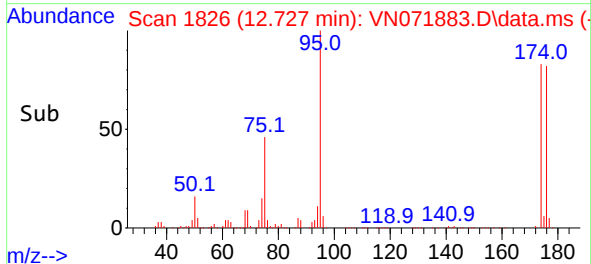
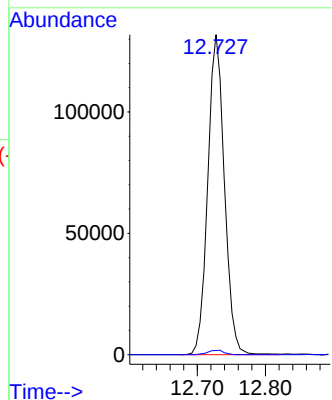
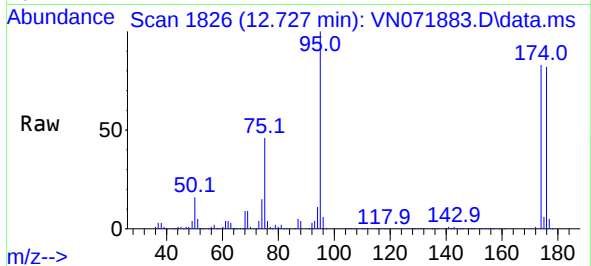




#76  
1,2,3-Trichloropropane  
Concen: 23.733 ug/l  
RT: 12.727 min Scan# 1826  
Delta R.T. -0.147 min  
Lab File: VN071883.D  
Acq: 06 Apr 2022 16:43

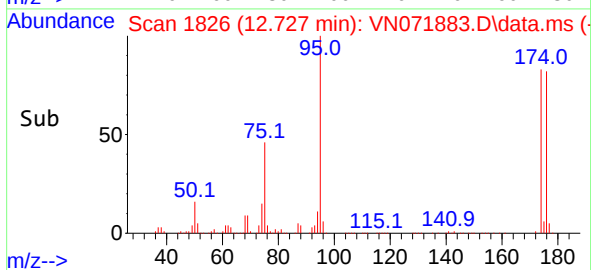
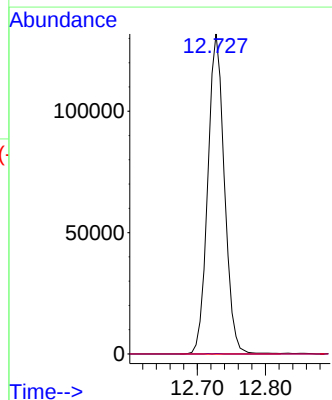
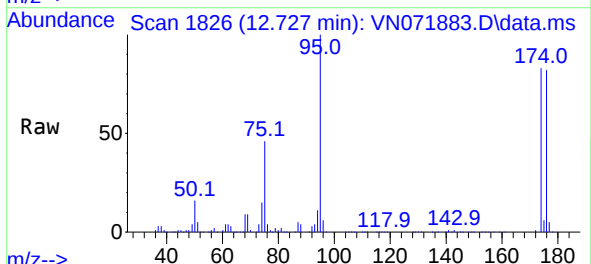
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ClientSampleId :  
PB143897ZHE#03

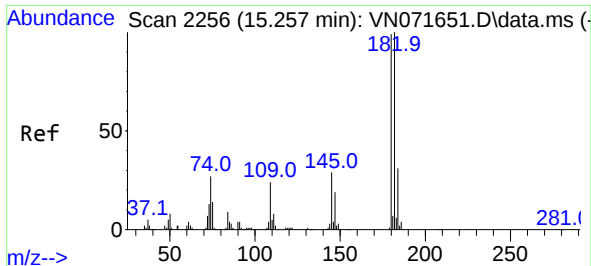
Tgt Ion: 75 Resp: 223731  
Ion Ratio Lower Upper  
75 100  
77 1.3 98.5 295.5#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 73.548 ug/l  
RT: 12.727 min Scan# 1826  
Delta R.T. 0.105 min  
Lab File: VN071883.D  
Acq: 06 Apr 2022 16:43

Tgt Ion: 75 Resp: 223731  
Ion Ratio Lower Upper  
75 100  
53 0.1 78.0 117.0#  
89 0.0 37.2 55.8#

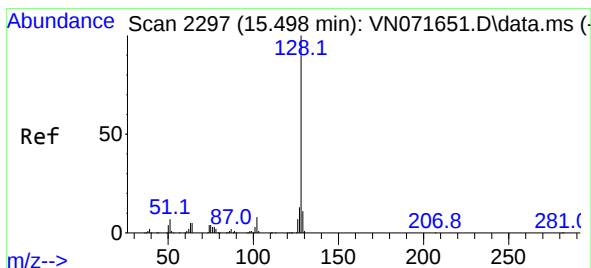
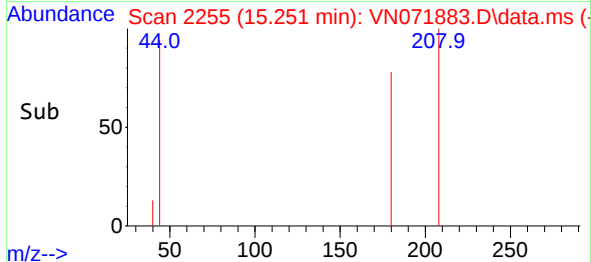
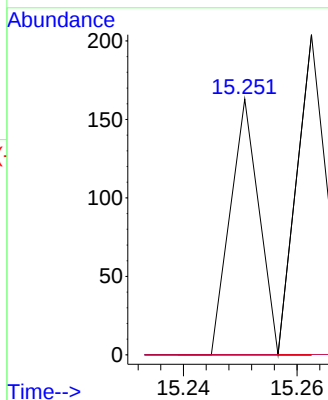
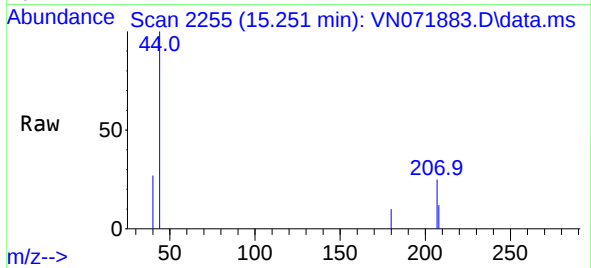




#93  
1,2,4-Trichlorobenzene  
Concen: 2.094 ug/l  
RT: 15.251 min Scan# 21  
Delta R.T. -0.006 min  
Lab File: VN071883.D  
Acq: 06 Apr 2022 16:43

Instrument :  
MSVOA\_N  
ClientSampleId :  
PB143897ZHE#03

Tgt Ion:180 Resp: 58  
Ion Ratio Lower Upper  
180 100  
182 0.0 47.5 142.5#  
145 0.0 14.5 43.5#



#95  
Naphthalene  
Concen: 3.847 ug/l  
RT: 15.504 min Scan# 2298  
Delta R.T. 0.006 min  
Lab File: VN071883.D  
Acq: 06 Apr 2022 16:43

Tgt Ion:128 Resp: 880  
Ion Ratio Lower Upper  
128 100  
127 0.0 10.3 15.5#  
129 0.0 8.6 13.0#

