

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX123120\  
 Data File : VX020485.D  
 Acq On : 31 Dec 2020 15:59  
 Operator : JC/MD  
 Sample : PB133875ZHE#14  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 PB133875ZHE#14

Quant Time: Jan 01 00:11:34 2021  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X121820W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Dec 18 13:09:49 2020  
 Response via : Initial Calibration

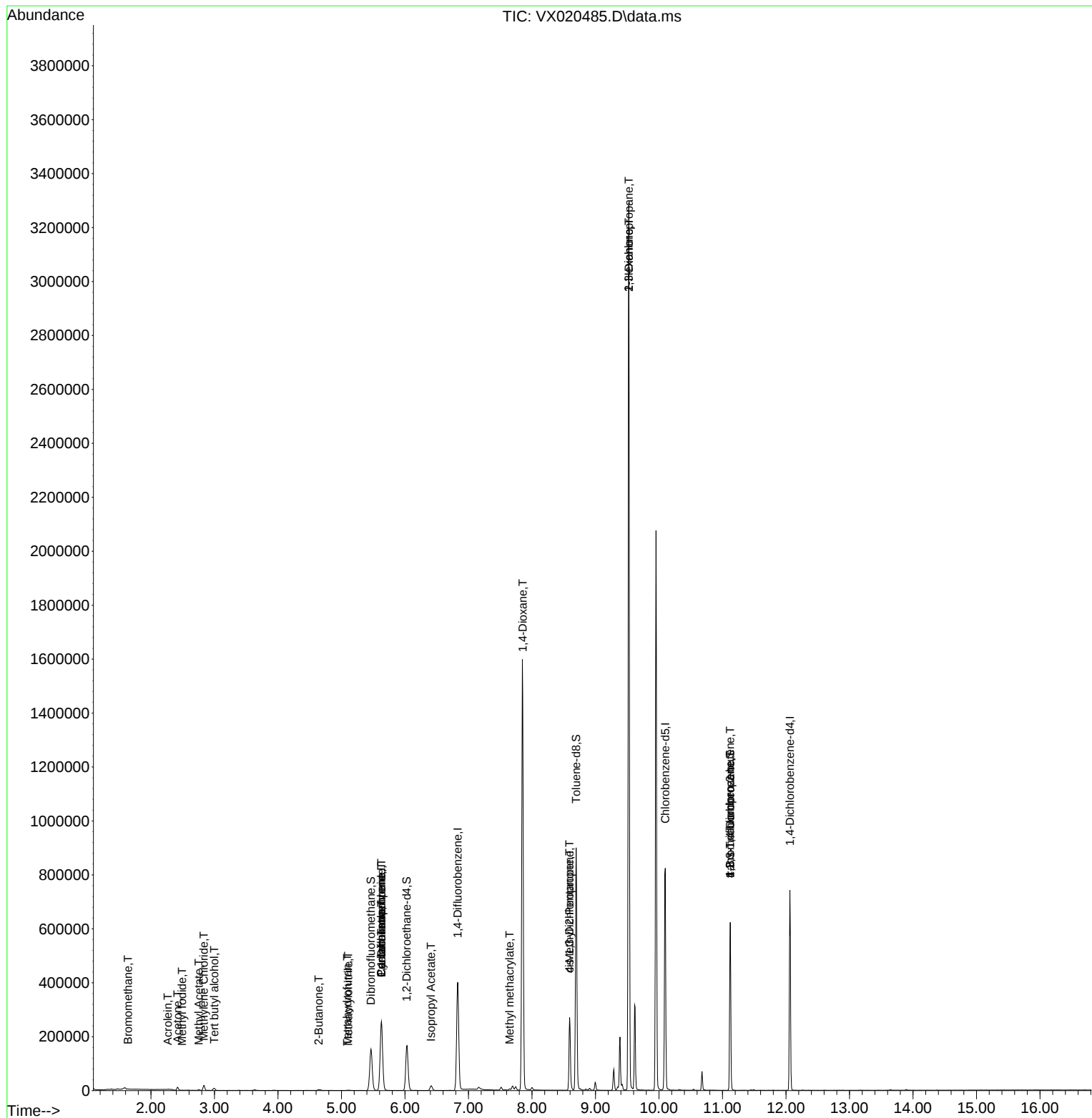
| Compound                      | R.T.           | QIon | Response   | Conc    | Units  | Dev(Min) |
|-------------------------------|----------------|------|------------|---------|--------|----------|
| -----                         |                |      |            |         |        |          |
| Internal Standards            |                |      |            |         |        |          |
| 1) Pentafluorobenzene         | 5.629          | 168  | 243903     | 50.00   | ug/l   | 0.01     |
| 34) 1,4-Difluorobenzene       | 6.830          | 114  | 402357     | 50.00   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 10.098         | 117  | 387681     | 50.00   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.061         | 152  | 152576     | 50.00   | ug/l   | 0.00     |
|                               |                |      |            |         |        |          |
| System Monitoring Compounds   |                |      |            |         |        |          |
| 33) 1,2-Dichloroethane-d4     | 6.025          | 65   | 158716     | 48.55   | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 61 - 141 |      | Recovery = | 97.10%  |        |          |
| 35) Dibromofluoromethane      | 5.465          | 113  | 132511     | 51.48   | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 69 - 133 |      | Recovery = | 102.96% |        |          |
| 50) Toluene-d8                | 8.696          | 98   | 529577     | 53.45   | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 65 - 126 |      | Recovery = | 106.90% |        |          |
| 62) 4-Bromofluorobenzene      | 11.122         | 95   | 168390     | 44.41   | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 58 - 135 |      | Recovery = | 88.82%  |        |          |
|                               |                |      |            |         |        |          |
| Target Compounds              |                |      |            |         | Qvalue |          |
| 5) Bromomethane               | 1.636          | 94   | 398        | 0.37    | ug/l # | 74       |
| 10) Methyl Iodide             | 2.489          | 142  | 65         | 3.30    | ug/l # | 42       |
| 11) Tert butyl alcohol        | 2.995          | 59   | 4983       | 6.81    | ug/l # | 76       |
| 13) Acrolein                  | 2.264          | 56   | 118        | 0.26    | ug/l # | 14       |
| 16) Acetone                   | 2.416          | 43   | 11486      | 7.70    | ug/l   | 98       |
| 18) Methyl Acetate            | 2.752          | 43   | 3009       | 0.90    | ug/l   | 94       |
| 20) Methylene Chloride        | 2.831          | 84   | 8610       | 2.56    | ug/l   | 96       |
| 25) 2-Butanone                | 4.641          | 43   | 3031       | 1.40    | ug/l # | 85       |
| 29) Tetrahydrofuran           | 5.093          | 42   | 919        | 0.67    | ug/l # | 74       |
| 31) Cyclohexane               | 5.629          | 56   | 4821       | 1.07    | ug/l # | 1        |
| 36) 1,1-Dichloropropene       | 5.629          | 75   | 18482      | 4.65    | ug/l # | 49       |
| 38) Carbon Tetrachloride      | 5.629          | 117  | 24244      | 6.41    | ug/l # | 17       |
| 41) Methacrylonitrile         | 5.105          | 41   | 619        | 0.28    | ug/l # | 43       |
| 43) Isopropyl Acetate         | 6.409          | 43   | 23326      | 3.58    | ug/l   | 98       |
| 48) Methyl methacrylate       | 7.647          | 41   | 6650       | 2.08    | ug/l # | 10       |
| 49) 1,4-Dioxane               | 7.854          | 88   | 293        | 3.92    | ug/l # | 1        |
| 51) 4-Methyl-2-Pentanone      | 8.592          | 43   | 85578      | 21.19   | ug/l # | 47       |
| 54) cis-1,3-Dichloropropene   | 8.592          | 75   | 45483      | 9.23    | ug/l # | 60       |
| 57) 1,3-Dichloropropane       | 9.525          | 76   | 28995      | 5.47    | ug/l # | 43       |
| 59) 2-Hexanone                | 9.525          | 43   | 347620     | 112.94  | ug/l # | 47       |
| 76) 1,2,3-Trichloropropane    | 11.122         | 75   | 82141      | 21.86   | ug/l # | 39       |
| 81) trans-1,4-Dichloro-2-b... | 11.122         | 75   | 82141      | 64.84   | ug/l # | 12       |
| -----                         |                |      |            |         |        |          |

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

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Sample : PB133875ZHE#14  
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ALS Vial : 17 Sample Multiplier: 1

Instrument :  
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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X121820W.M  
Quant Title : SW846 8260  
QLast Update : Fri Dec 18 13:09:49 2020  
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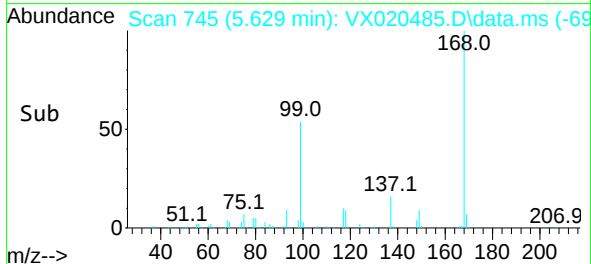
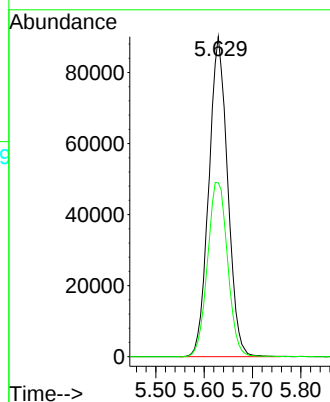
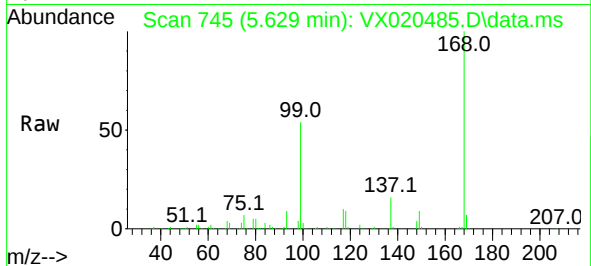




#1  
Pentafluorobenzene  
Concen: 50.00 ug/l  
RT: 5.629 min Scan# 745  
Delta R.T. 0.012 min  
Lab File: VX020485.D  
Acq: 31 Dec 2020 15:59

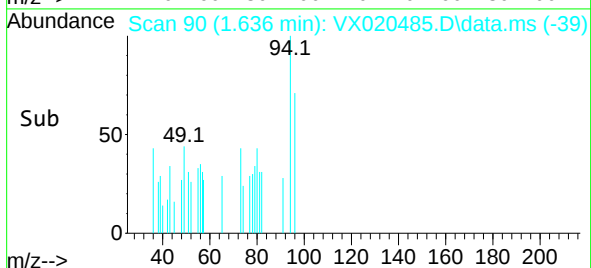
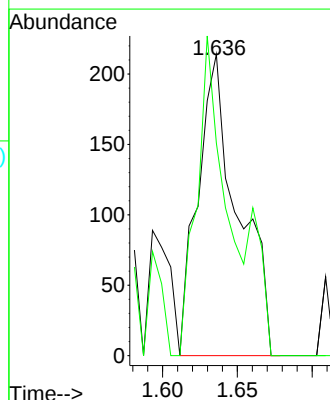
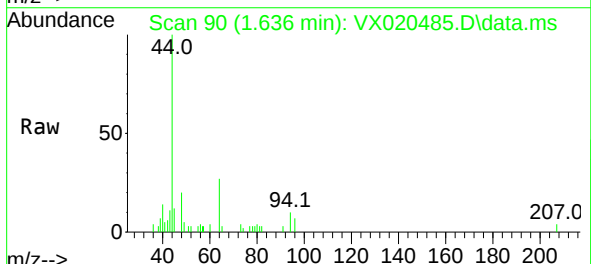
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB133875ZHE#14

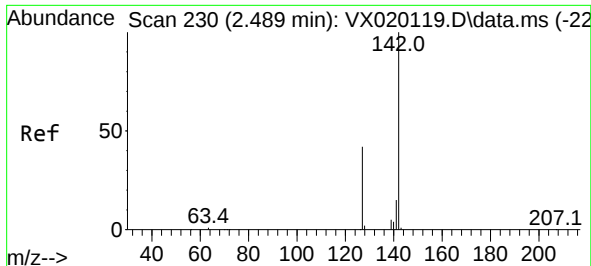
Tgt Ion:168 Resp: 243903  
Ion Ratio Lower Upper  
168 100  
99 54.3 45.8 68.6



#5  
Bromomethane  
Concen: 0.37 ug/l  
RT: 1.636 min Scan# 90  
Delta R.T. 0.012 min  
Lab File: VX020485.D  
Acq: 31 Dec 2020 15:59

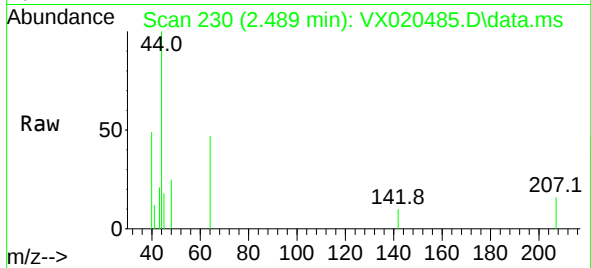
Tgt Ion: 94 Resp: 398  
Ion Ratio Lower Upper  
94 100  
96 70.6 76.4 114.6#



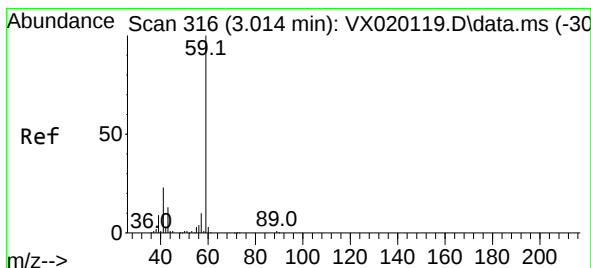
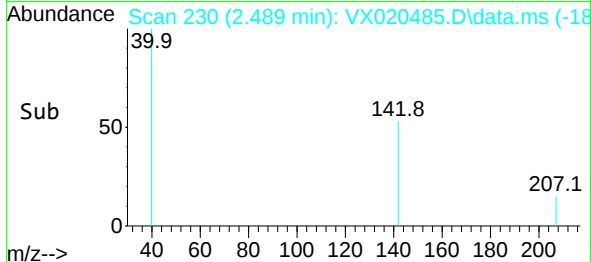
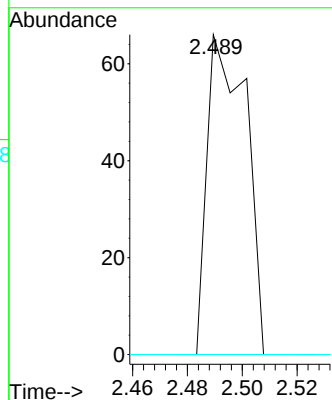


#10  
Methyl Iodide  
Concen: 3.30 ug/l  
RT: 2.489 min Scan# 230  
Delta R.T. 0.000 min  
Lab File: VX020485.D  
Acq: 31 Dec 2020 15:59

Instrument :  
MSVOA\_X  
ClientSampleId :  
PB133875ZHE#14

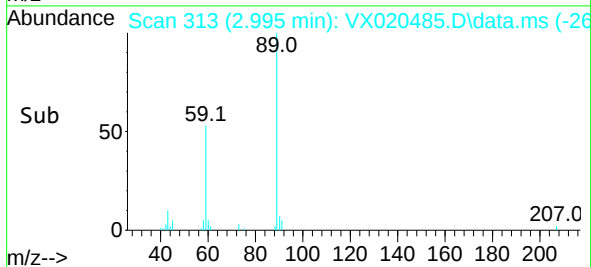
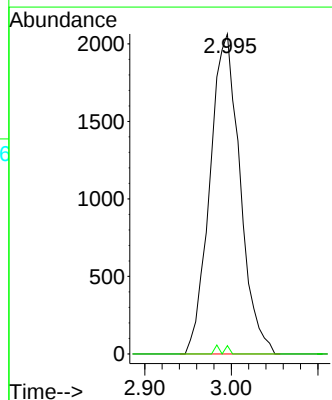
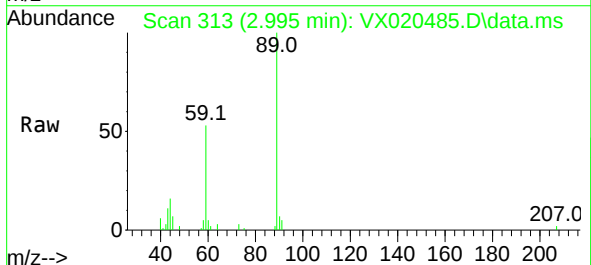


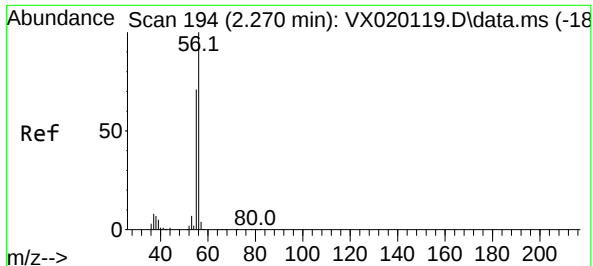
Tgt Ion:142 Resp: 65  
Ion Ratio Lower Upper  
142 100  
127 0.0 33.3 49.9#  
141 0.0 11.4 17.0#



#11  
Tert butyl alcohol  
Concen: 6.81 ug/l  
RT: 2.995 min Scan# 313  
Delta R.T. -0.019 min  
Lab File: VX020485.D  
Acq: 31 Dec 2020 15:59

Tgt Ion: 59 Resp: 4983  
Ion Ratio Lower Upper  
59 100  
57 0.8 7.8 11.8#

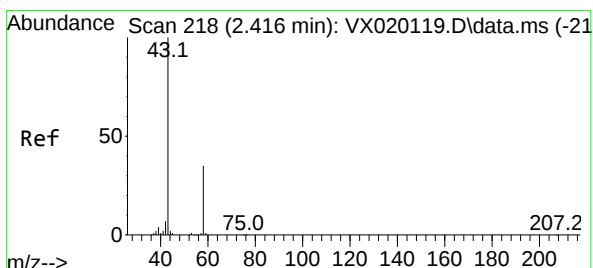
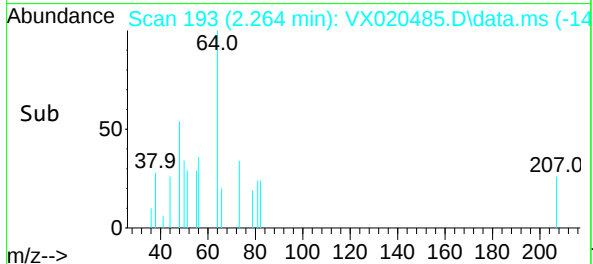
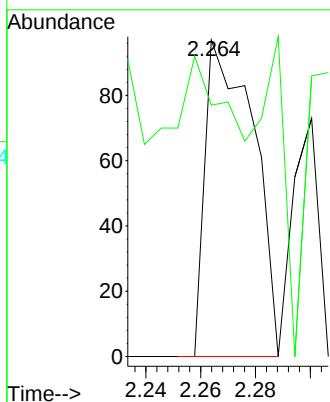
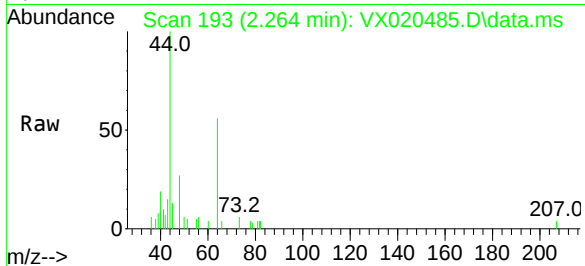




#13  
Acrolein  
Concen: 0.26 ug/l  
RT: 2.264 min Scan# 193  
Delta R.T. -0.006 min  
Lab File: VX020485.D  
Acq: 31 Dec 2020 15:59

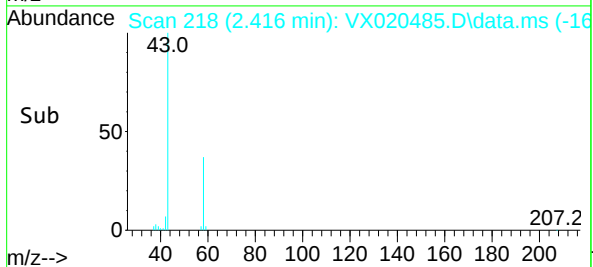
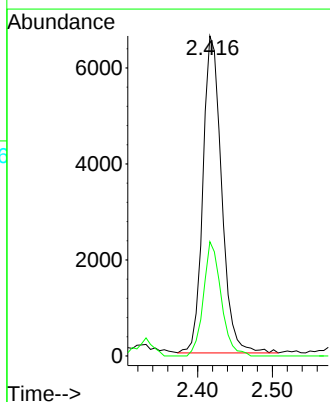
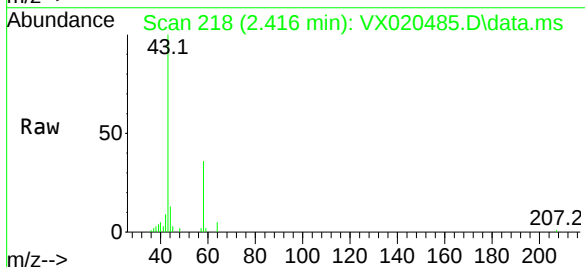
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB133875ZHE#14

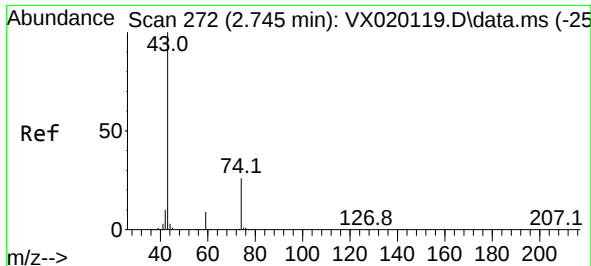
Tgt Ion: 56 Resp: 118  
Ion Ratio Lower Upper  
56 100  
55 0.0 56.4 84.6#



#16  
Acetone  
Concen: 7.70 ug/l  
RT: 2.416 min Scan# 218  
Delta R.T. 0.000 min  
Lab File: VX020485.D  
Acq: 31 Dec 2020 15:59

Tgt Ion: 43 Resp: 11486  
Ion Ratio Lower Upper  
43 100  
58 36.1 27.8 41.8

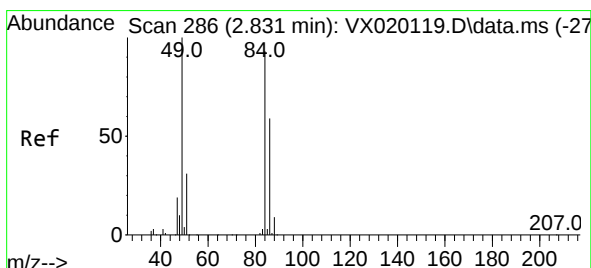
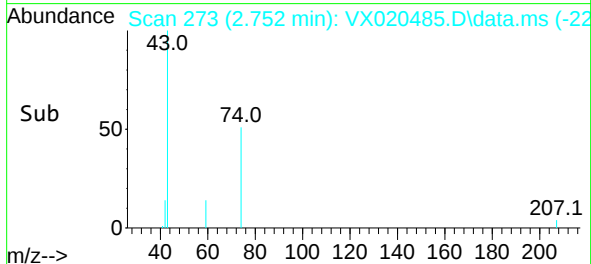
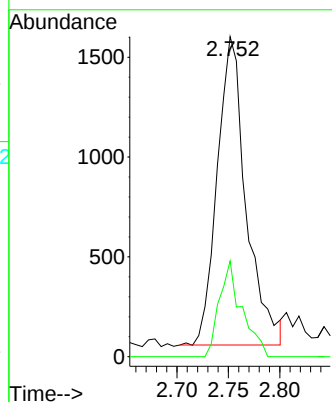
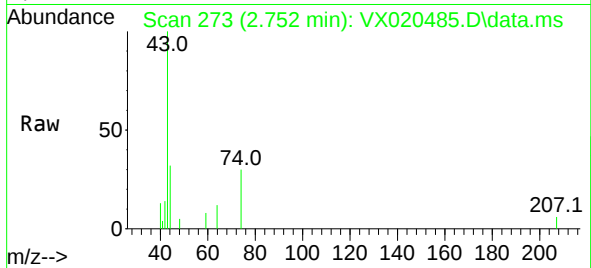




#18  
Methyl Acetate  
Concen: 0.90 ug/l  
RT: 2.752 min Scan# 273  
Delta R.T. 0.007 min  
Lab File: VX020485.D  
Acq: 31 Dec 2020 15:59

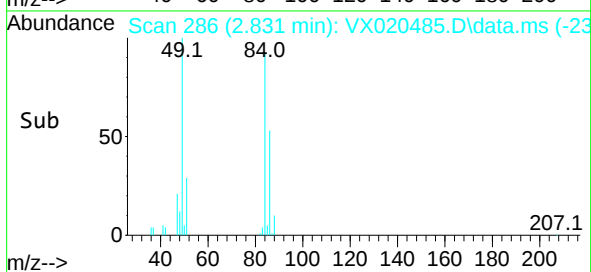
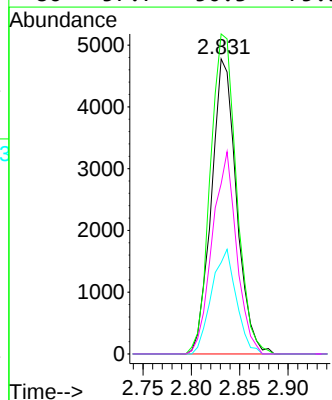
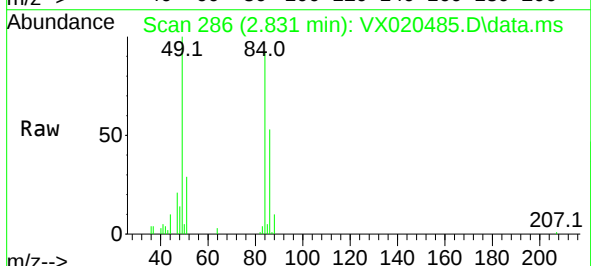
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB133875ZHE#14

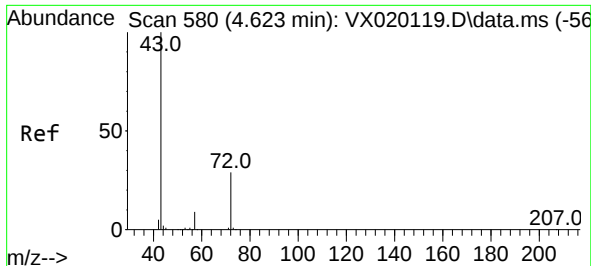
Tgt Ion: 43 Resp: 3009  
Ion Ratio Lower Upper  
43 100  
74 24.2 21.9 32.9



#20  
Methylene Chloride  
Concen: 2.56 ug/l  
RT: 2.831 min Scan# 286  
Delta R.T. -0.000 min  
Lab File: VX020485.D  
Acq: 31 Dec 2020 15:59

Tgt Ion: 84 Resp: 8610  
Ion Ratio Lower Upper  
84 100  
49 108.4 88.6 132.8  
51 30.9 27.0 40.6  
86 57.7 50.3 75.5





#25

2-Butanone

Concen: 1.40 ug/l

RT: 4.641 min Scan# 583

Delta R.T. 0.018 min

Lab File: VX020485.D

Acq: 31 Dec 2020 15:59

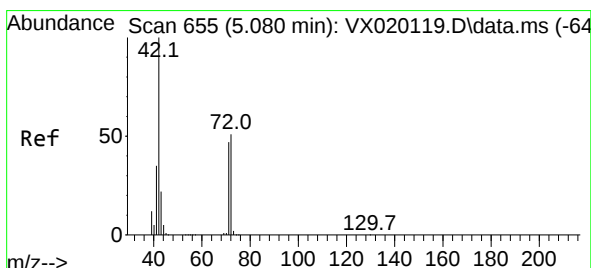
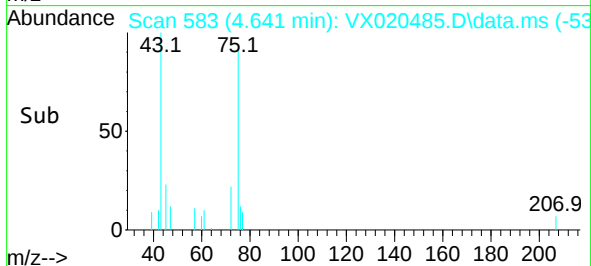
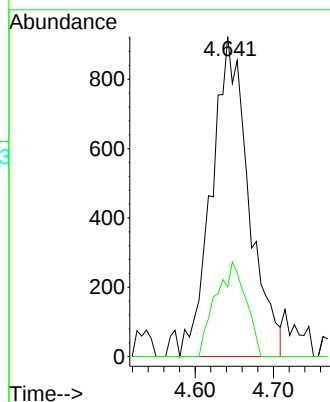
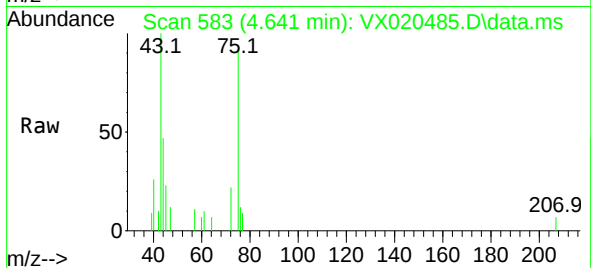
Instrument :

MSVOA\_X

ClientSampleId :

PB133875ZHE#14

Tgt Ion: 43 Resp: 3031  
 Ion Ratio Lower Upper  
 43 100  
 72 21.8 23.7 35.5#



#29

Tetrahydrofuran

Concen: 0.67 ug/l

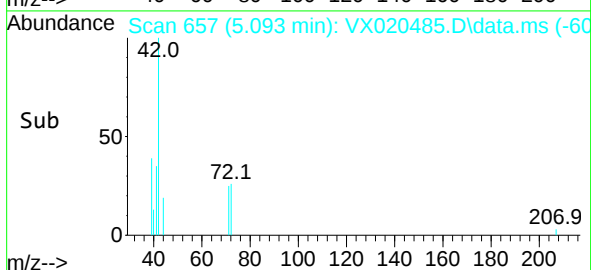
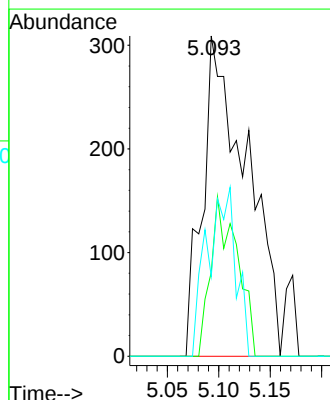
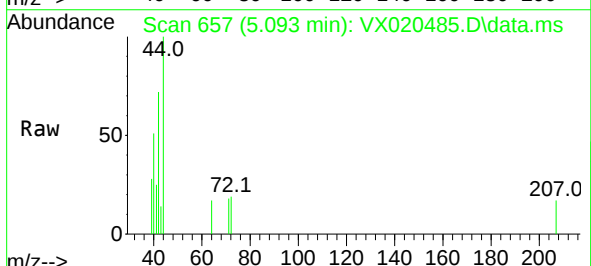
RT: 5.093 min Scan# 657

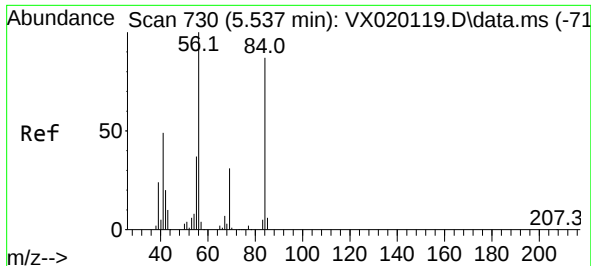
Delta R.T. 0.013 min

Lab File: VX020485.D

Acq: 31 Dec 2020 15:59

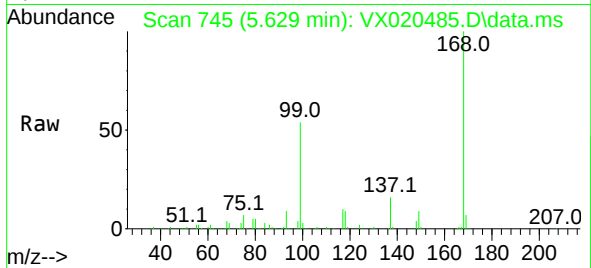
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 Ion Ratio Lower Upper  
 42 100  
 72 30.1 41.7 62.5#  
 71 34.3 38.4 57.6#



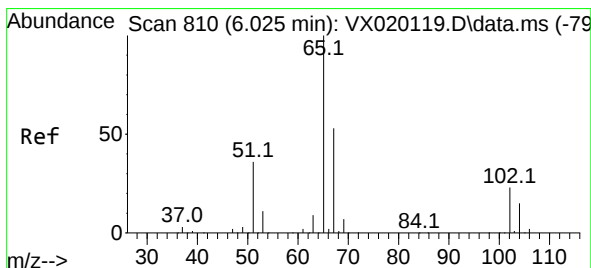
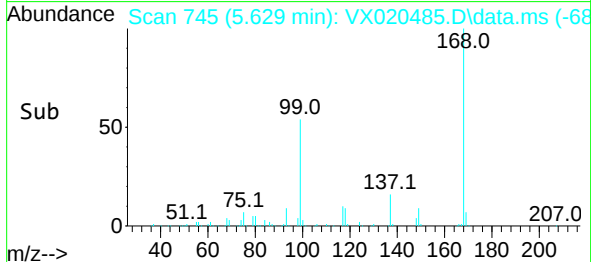
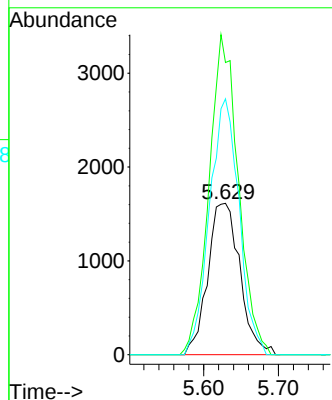


#31  
Cyclohexane  
Concen: 1.07 ug/l  
RT: 5.629 min Scan# 745  
Delta R.T. 0.092 min  
Lab File: VX020485.D  
Acq: 31 Dec 2020 15:59

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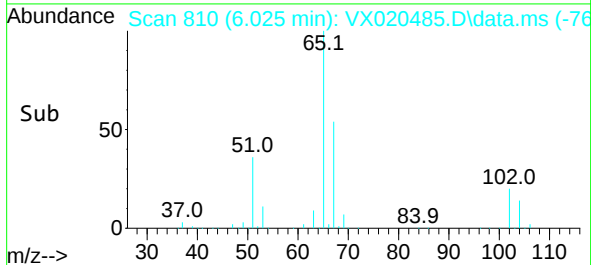
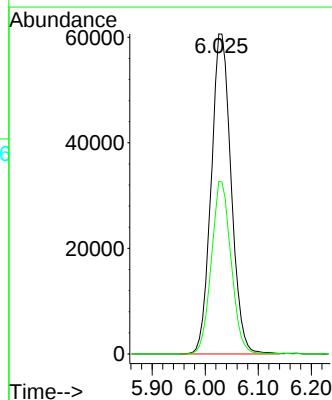
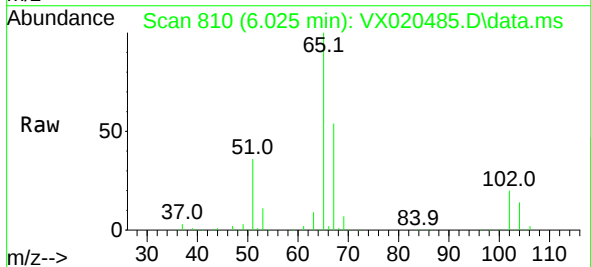


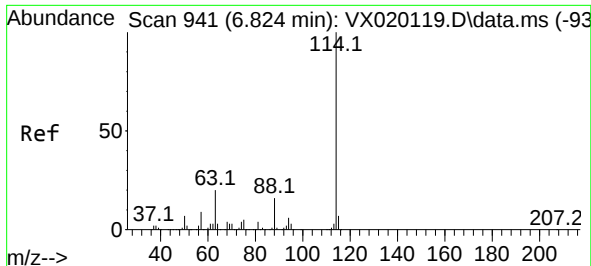
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Ion Ratio Lower Upper  
56 100  
69 193.1 25.3 37.9#  
84 169.1 71.4 107.0#



#33  
1,2-Dichloroethane-d4  
Concen: 48.55 ug/l  
RT: 6.025 min Scan# 810  
Delta R.T. 0.000 min  
Lab File: VX020485.D  
Acq: 31 Dec 2020 15:59

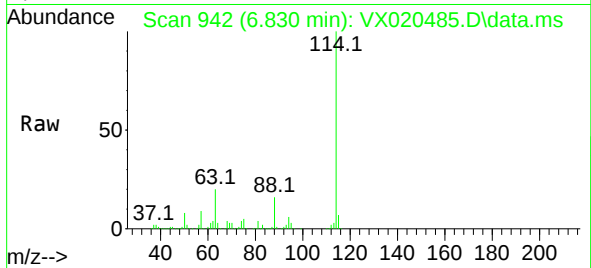
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Ion Ratio Lower Upper  
65 100  
67 53.3 0.0 105.4



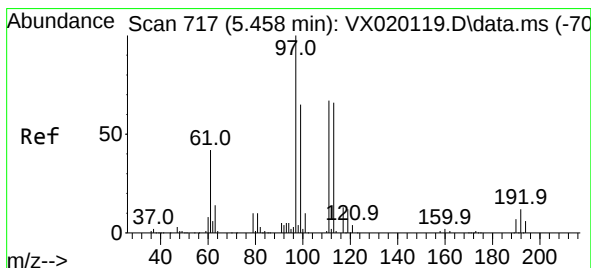
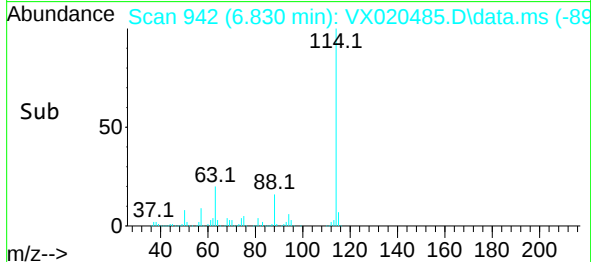
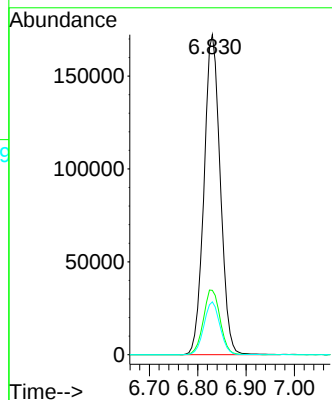


#34  
1,4-Difluorobenzene  
Concen: 50.00 ug/l  
RT: 6.830 min Scan# 942  
Delta R.T. 0.006 min  
Lab File: VX020485.D  
Acq: 31 Dec 2020 15:59

Instrument :  
MSVOA\_X  
ClientSampleId :  
PB133875ZHE#14

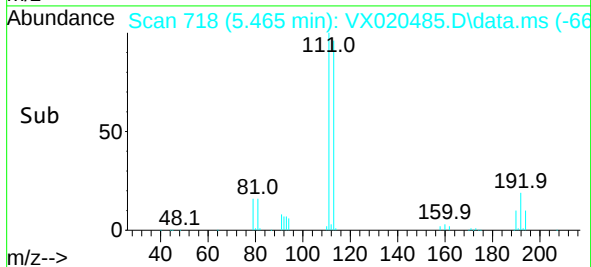
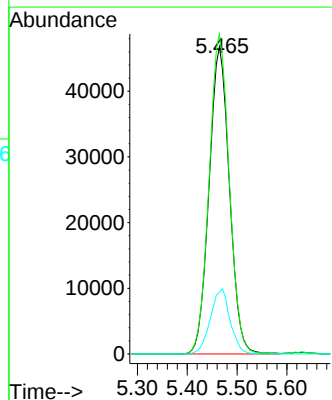
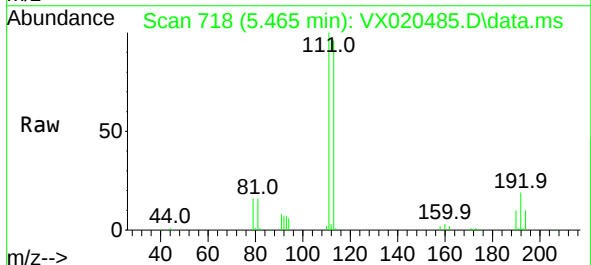


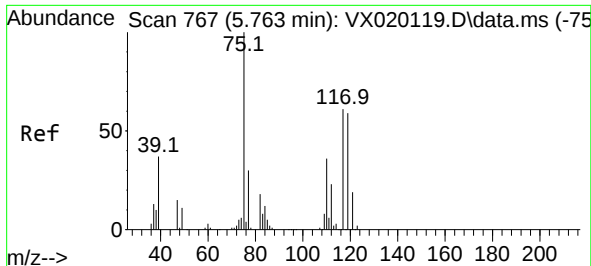
Tgt Ion:114 Resp: 402357  
Ion Ratio Lower Upper  
114 100  
63 20.1 0.0 40.8  
88 16.5 0.0 32.8



#35  
Dibromofluoromethane  
Concen: 51.48 ug/l  
RT: 5.465 min Scan# 718  
Delta R.T. 0.007 min  
Lab File: VX020485.D  
Acq: 31 Dec 2020 15:59

Tgt Ion:113 Resp: 132511  
Ion Ratio Lower Upper  
113 100  
111 103.5 81.9 122.9  
192 20.5 16.7 25.1

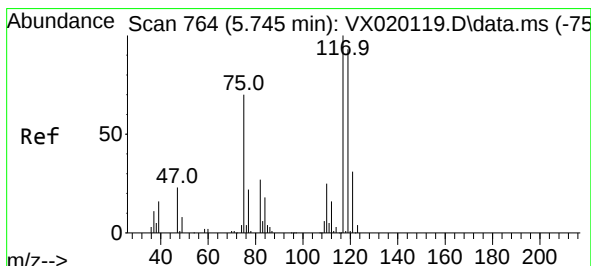
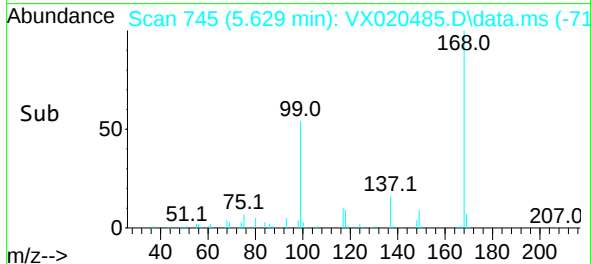
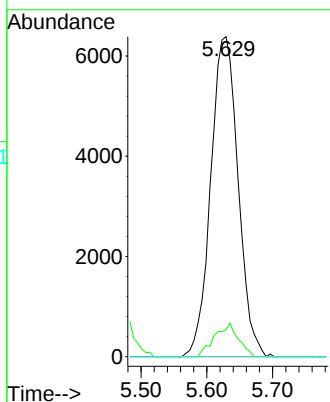
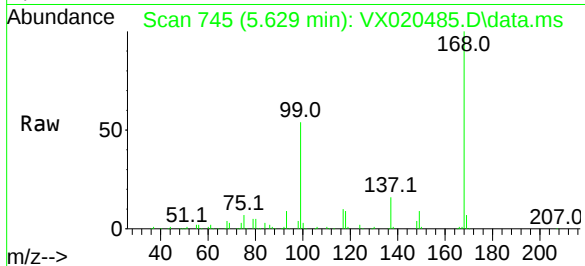




#36  
1,1-Dichloropropene  
Concen: 4.65 ug/l  
RT: 5.629 min Scan# 745  
Delta R.T. -0.134 min  
Lab File: VX020485.D  
Acq: 31 Dec 2020 15:59

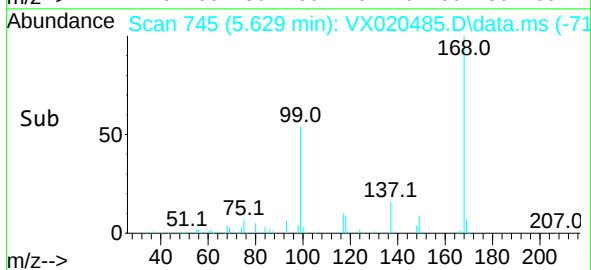
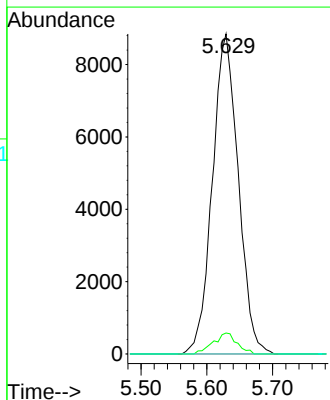
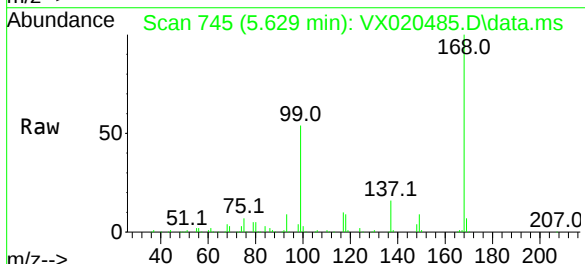
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB133875ZHE#14

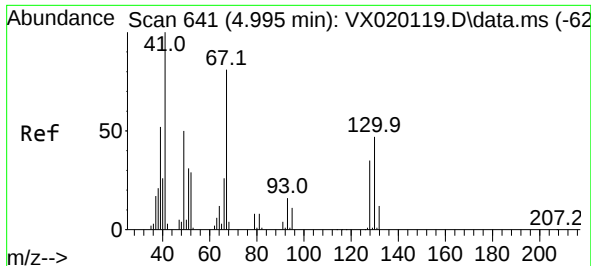
Tgt Ion: 75 Resp: 18482  
Ion Ratio Lower Upper  
75 100  
110 9.0 18.1 54.4#  
77 0.0 25.3 37.9#



#38  
Carbon Tetrachloride  
Concen: 6.41 ug/l  
RT: 5.629 min Scan# 745  
Delta R.T. -0.116 min  
Lab File: VX020485.D  
Acq: 31 Dec 2020 15:59

Tgt Ion: 117 Resp: 24244  
Ion Ratio Lower Upper  
117 100  
119 6.6 76.2 114.2#  
121 0.0 24.8 37.2#

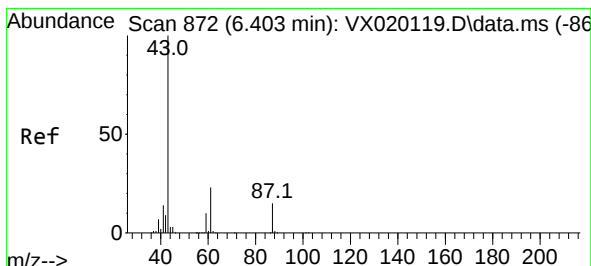
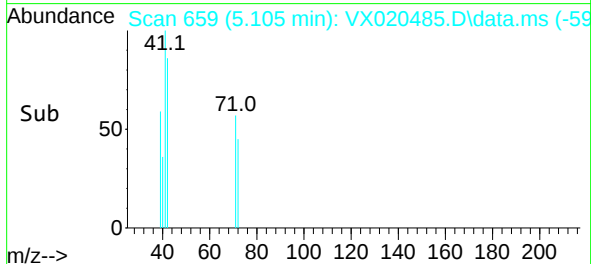
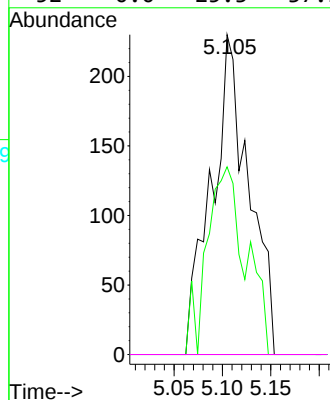
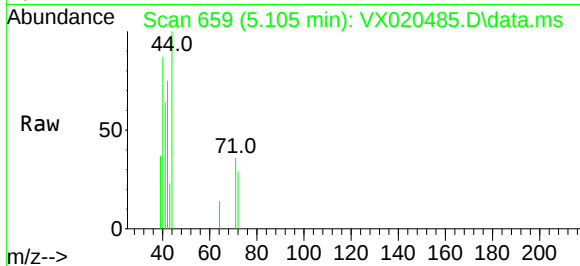




#41  
Methacrylonitrile  
Concen: 0.28 ug/l  
RT: 5.105 min Scan# 659  
Delta R.T. 0.110 min  
Lab File: VX020485.D  
Acq: 31 Dec 2020 15:59

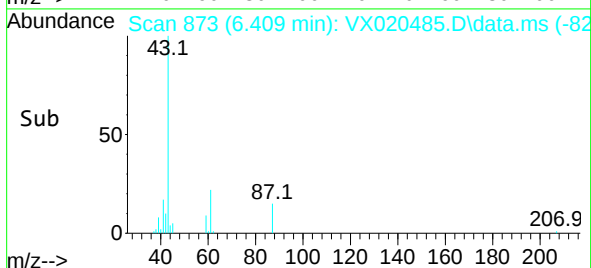
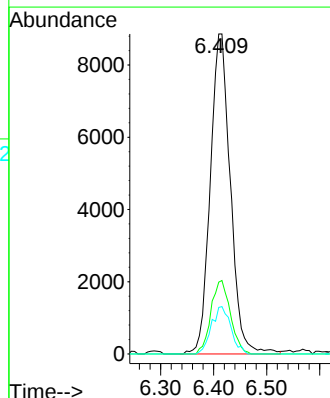
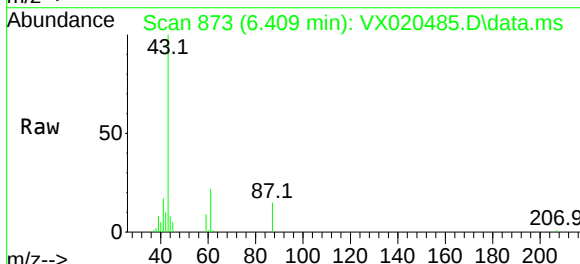
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB133875ZHE#14

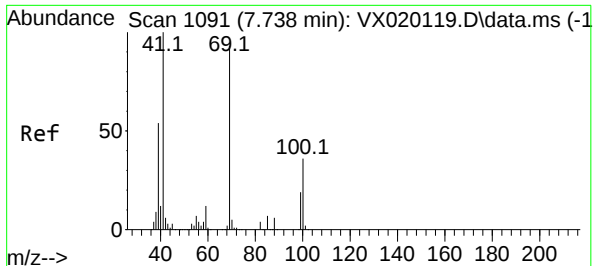
|             |             |
|-------------|-------------|
| Tgt Ion: 41 | Resp: 619   |
| Ion Ratio   | Lower Upper |
| 41 100      |             |
| 39 49.8     | 42.5 63.7   |
| 67 0.0      | 65.0 97.6#  |
| 52 0.0      | 25.3 37.9#  |



#43  
Isopropyl Acetate  
Concen: 3.58 ug/l  
RT: 6.409 min Scan# 873  
Delta R.T. 0.006 min  
Lab File: VX020485.D  
Acq: 31 Dec 2020 15:59

|             |             |
|-------------|-------------|
| Tgt Ion: 43 | Resp: 23326 |
| Ion Ratio   | Lower Upper |
| 43 100      |             |
| 61 22.2     | 18.2 27.4   |
| 87 14.3     | 12.5 18.7   |

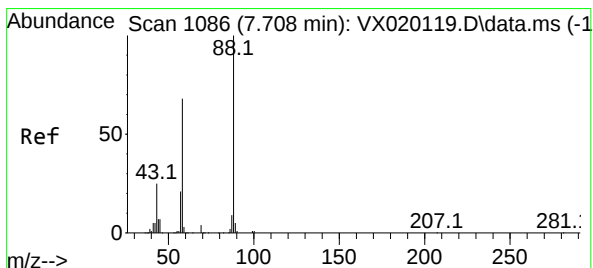
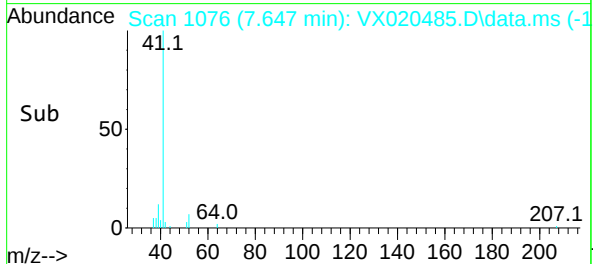
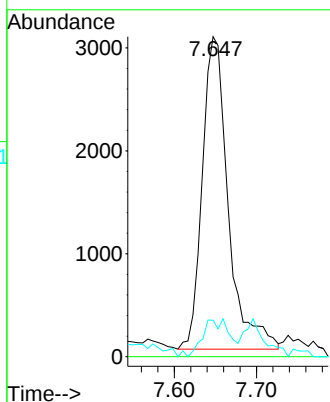
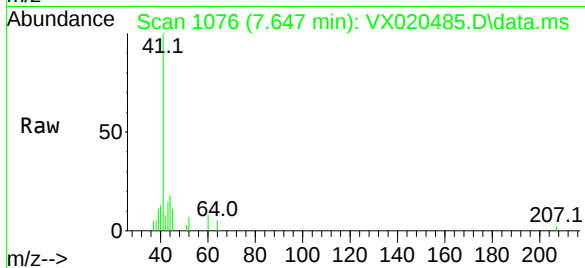




#48  
Methyl methacrylate  
Concen: 2.08 ug/l  
RT: 7.647 min Scan# 1076  
Delta R.T. -0.091 min  
Lab File: VX020485.D  
Acq: 31 Dec 2020 15:59

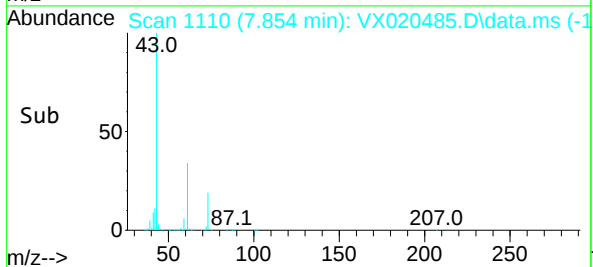
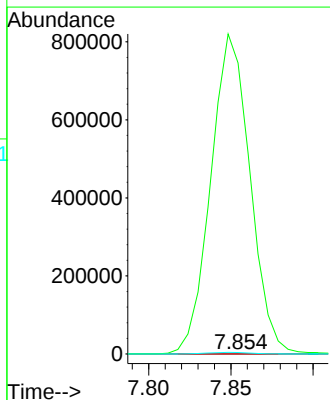
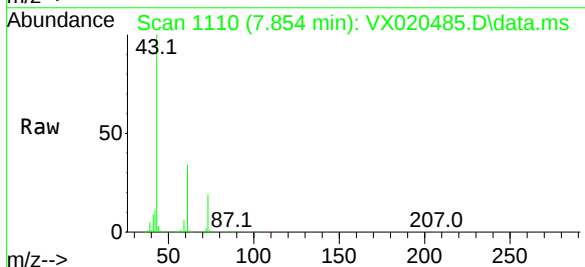
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB133875ZHE#14

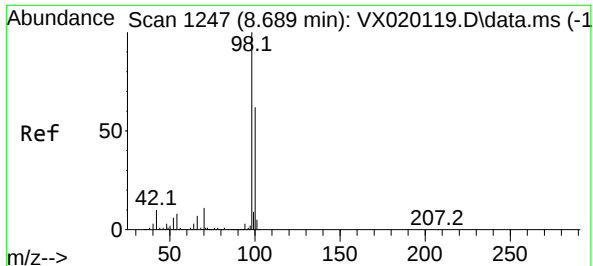
Tgt Ion: 41 Resp: 6650  
Ion Ratio Lower Upper  
41 100  
69 0.0 76.0 114.0#  
39 0.0 44.6 67.0#



#49  
1,4-Dioxane  
Concen: 3.92 ug/l  
RT: 7.854 min Scan# 1110  
Delta R.T. 0.146 min  
Lab File: VX020485.D  
Acq: 31 Dec 2020 15:59

Tgt Ion: 88 Resp: 293  
Ion Ratio Lower Upper  
88 100  
43 467014.0 23.2 34.8#  
58 2506.5 55.0 82.4#

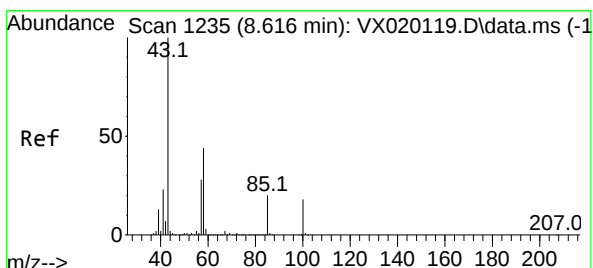
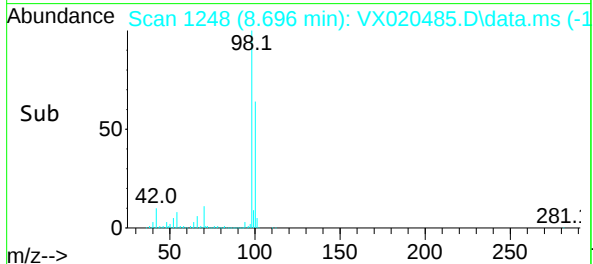
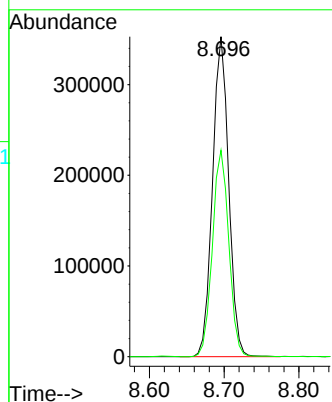
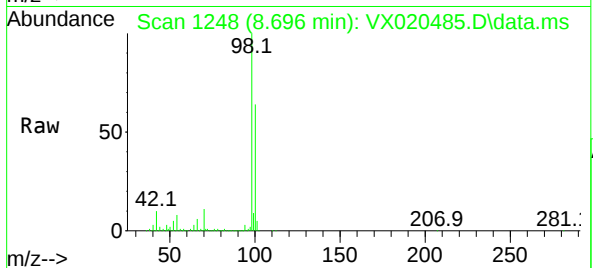




#50  
Toluene-d8  
Concen: 53.45 ug/l  
RT: 8.696 min Scan# 1248  
Delta R.T. 0.007 min  
Lab File: VX020485.D  
Acq: 31 Dec 2020 15:59

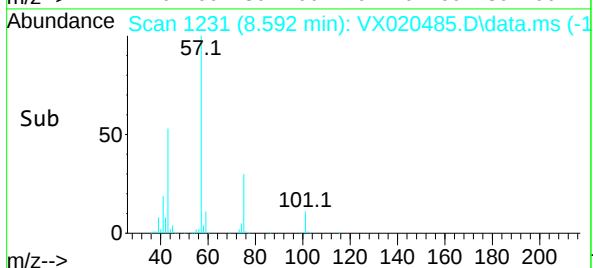
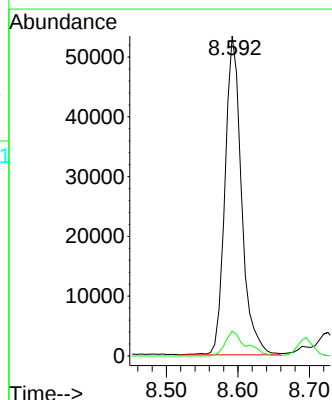
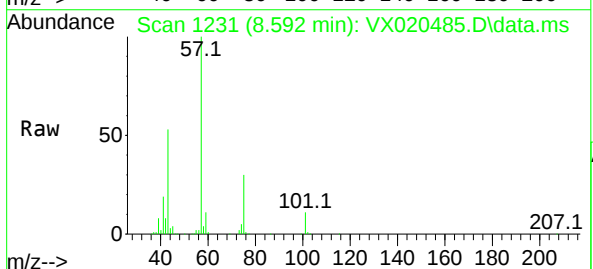
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB133875ZHE#14

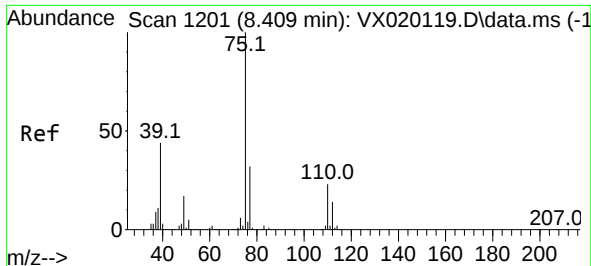
Tgt Ion: 98 Resp: 529577  
Ion Ratio Lower Upper  
98 100  
100 65.5 51.9 77.9



#51  
4-Methyl-2-Pentanone  
Concen: 21.19 ug/l  
RT: 8.592 min Scan# 1231  
Delta R.T. -0.024 min  
Lab File: VX020485.D  
Acq: 31 Dec 2020 15:59

Tgt Ion: 43 Resp: 85578  
Ion Ratio Lower Upper  
43 100  
58 9.8 35.4 53.0#

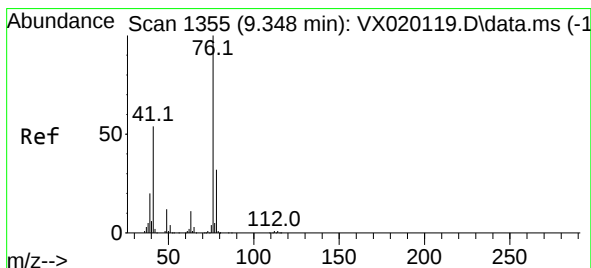
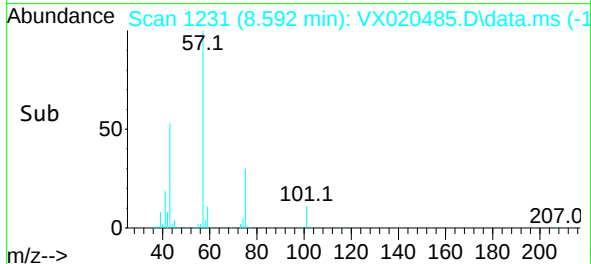
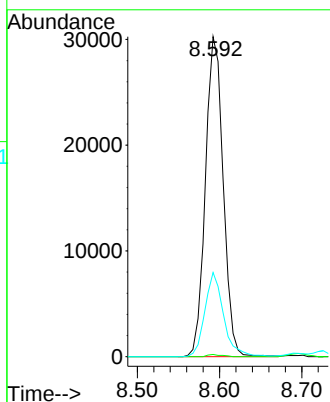
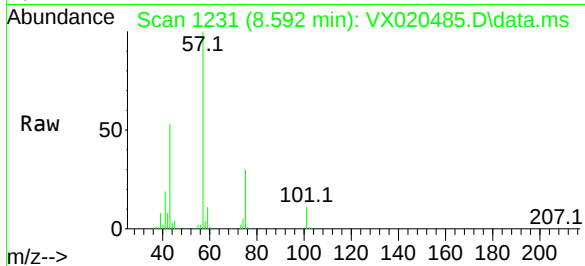




#54  
cis-1,3-Dichloropropene  
Concen: 9.23 ug/l  
RT: 8.592 min Scan# 1231  
Delta R.T. 0.183 min  
Lab File: VX020485.D  
Acq: 31 Dec 2020 15:59

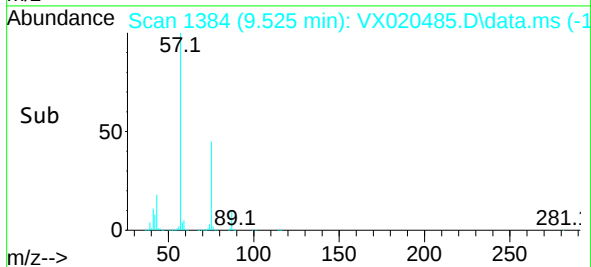
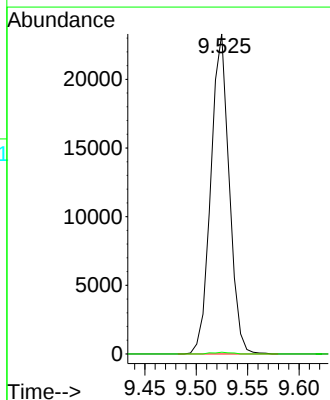
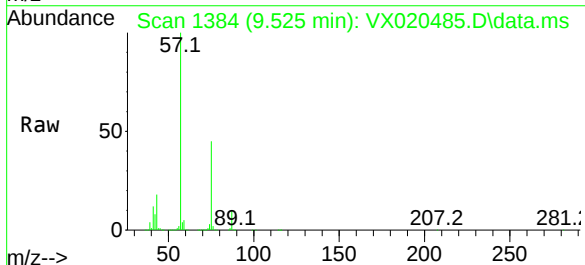
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB133875ZHE#14

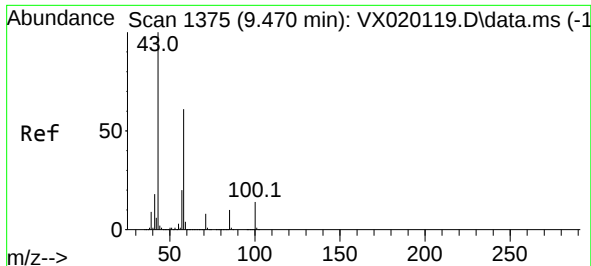
Tgt Ion: 75 Resp: 45483  
Ion Ratio Lower Upper  
75 100  
77 0.7 25.7 38.5#  
39 26.3 35.1 52.7#



#57  
1,3-Dichloropropane  
Concen: 5.47 ug/l  
RT: 9.525 min Scan# 1384  
Delta R.T. 0.177 min  
Lab File: VX020485.D  
Acq: 31 Dec 2020 15:59

Tgt Ion: 76 Resp: 28995  
Ion Ratio Lower Upper  
76 100  
78 0.5 26.2 39.2#

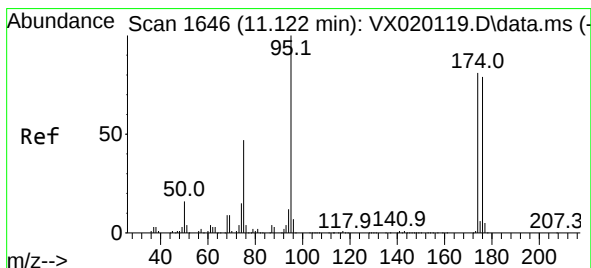
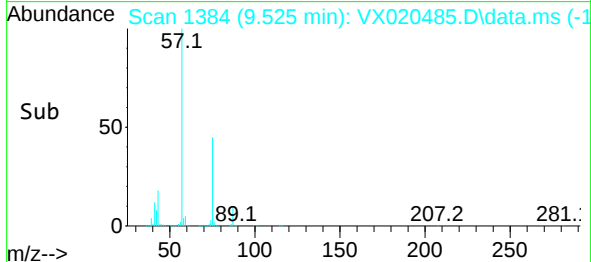
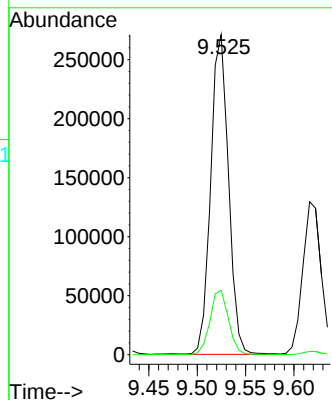
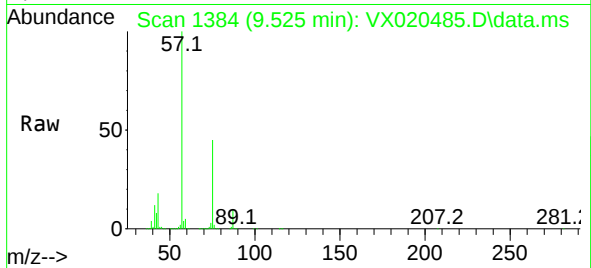




#59  
2-Hexanone  
Concen: 112.94 ug/l  
RT: 9.525 min Scan# 1384  
Delta R.T. 0.055 min  
Lab File: VX020485.D  
Acq: 31 Dec 2020 15:59

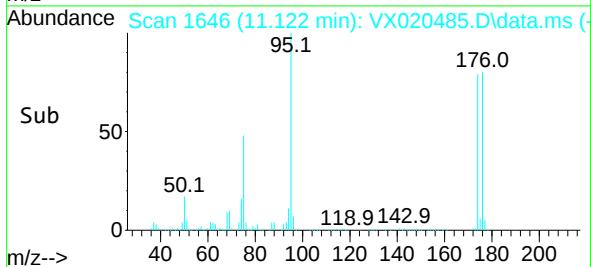
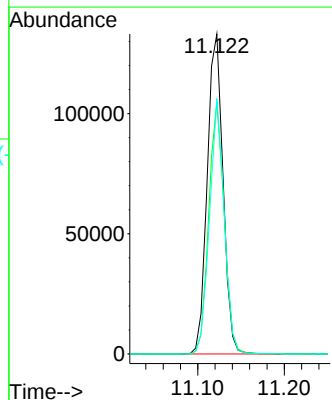
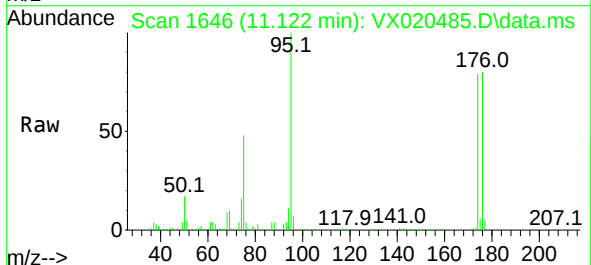
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ClientSampleId :  
PB133875ZHE#14

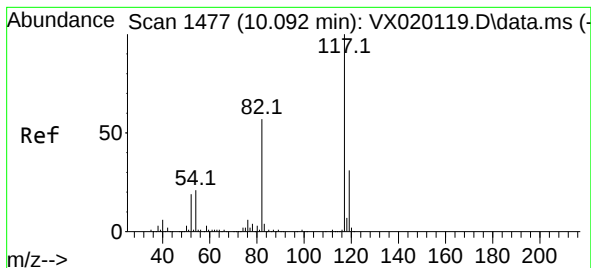
Tgt Ion: 43 Resp: 347620  
Ion Ratio Lower Upper  
43 100  
58 20.9 30.9 92.8#



#62  
4-Bromofluorobenzene  
Concen: 44.41 ug/l  
RT: 11.122 min Scan# 1646  
Delta R.T. 0.000 min  
Lab File: VX020485.D  
Acq: 31 Dec 2020 15:59

Tgt Ion: 95 Resp: 168390  
Ion Ratio Lower Upper  
95 100  
174 77.1 0.0 154.6  
176 74.5 0.0 155.8

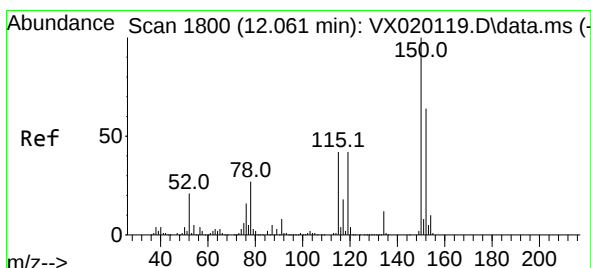
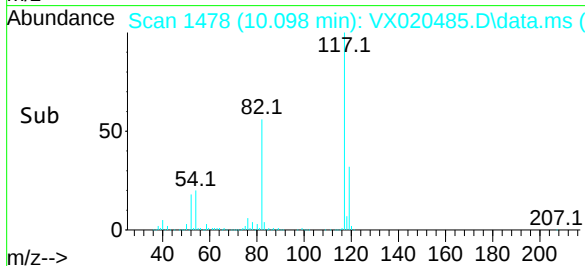
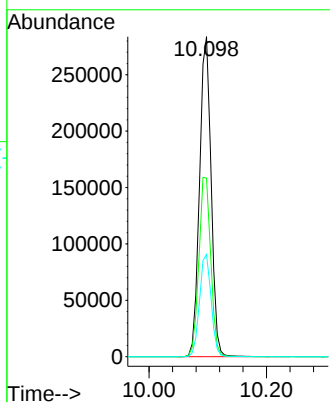
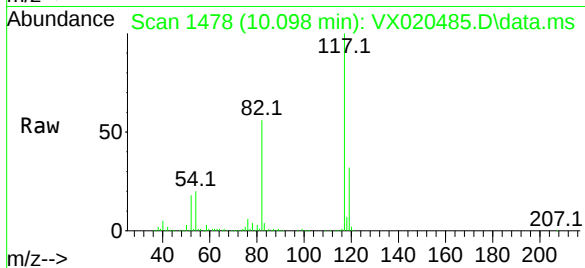




#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 10.098 min Scan# 1478  
Delta R.T. 0.006 min  
Lab File: VX020485.D  
Acq: 31 Dec 2020 15:59

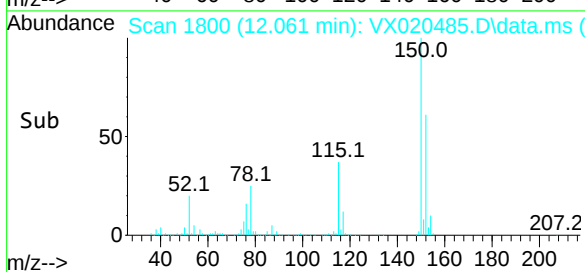
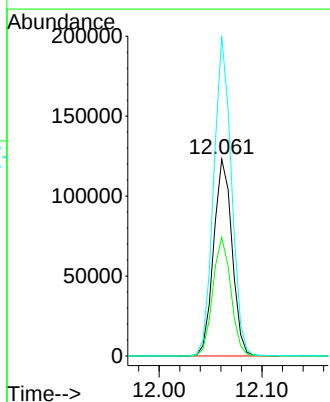
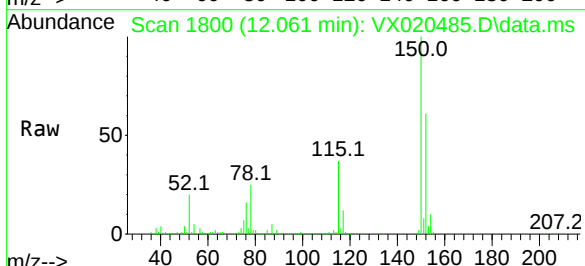
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB133875ZHE#14

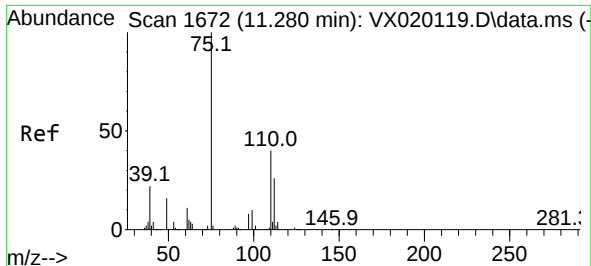
Tgt Ion:117 Resp: 387681  
Ion Ratio Lower Upper  
117 100  
82 55.8 47.4 71.2  
119 32.0 26.6 39.8



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.00 ug/l  
RT: 12.061 min Scan# 1800  
Delta R.T. -0.000 min  
Lab File: VX020485.D  
Acq: 31 Dec 2020 15:59

Tgt Ion:152 Resp: 152576  
Ion Ratio Lower Upper  
152 100  
115 59.1 41.1 123.3  
150 156.8 0.0 349.0

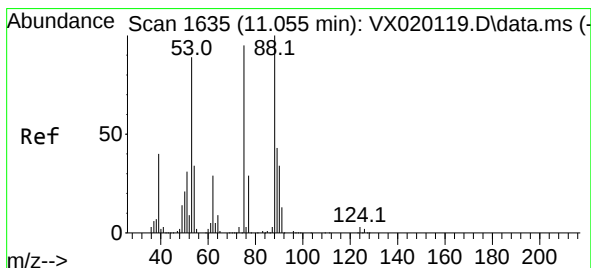
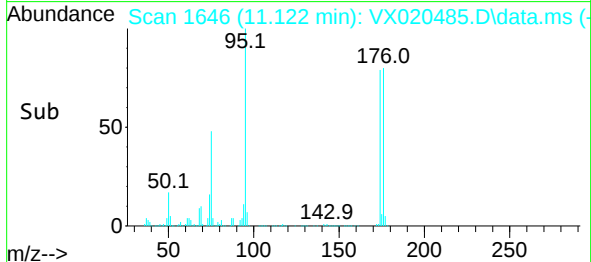
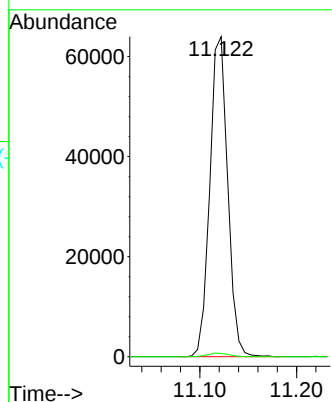
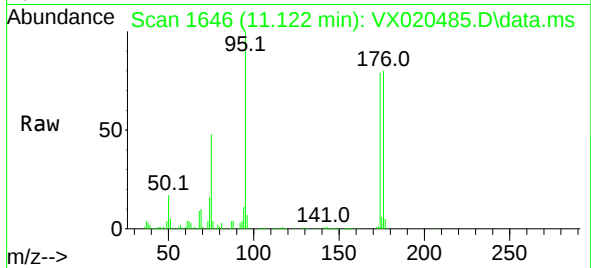




#76  
1,2,3-Trichloropropane  
Concen: 21.86 ug/l  
RT: 11.122 min Scan# 1646  
Delta R.T. -0.158 min  
Lab File: VX020485.D  
Acq: 31 Dec 2020 15:59

Instrument :  
MSVOA\_X  
ClientSampleId :  
PB133875ZHE#14

Tgt Ion: 75 Resp: 82141  
Ion Ratio Lower Upper  
75 100  
77 1.3 19.1 57.5#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 64.84 ug/l  
RT: 11.122 min Scan# 1646  
Delta R.T. 0.067 min  
Lab File: VX020485.D  
Acq: 31 Dec 2020 15:59

Tgt Ion: 75 Resp: 82141  
Ion Ratio Lower Upper  
75 100  
53 0.1 74.5 111.7#  
89 0.0 37.9 56.9#

