

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX041922\  
 Data File : VX028179.D  
 Acq On : 19 Apr 2022 23:12  
 Operator : JC/MD  
 Sample : PB144164ZHE#09  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 34 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 PB144164ZHE#09

Quant Time: Apr 20 08:20:32 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X041922W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Apr 19 13:38:04 2022  
 Response via : Initial Calibration

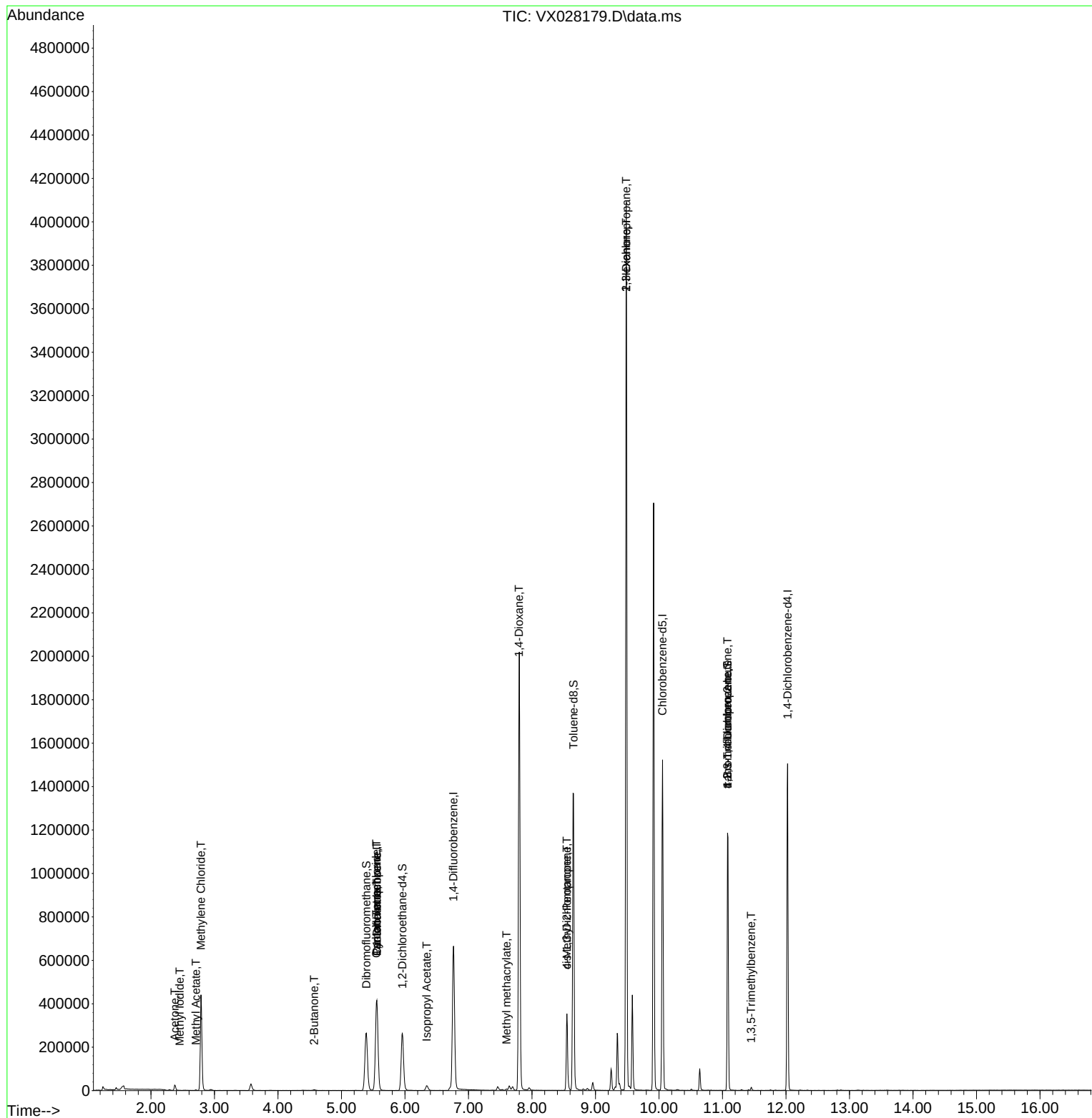
| Compound                      | R.T.           | QIon | Response   | Conc        | Units  | Dev(Min) |
|-------------------------------|----------------|------|------------|-------------|--------|----------|
| -----                         |                |      |            |             |        |          |
| Internal Standards            |                |      |            |             |        |          |
| 1) Pentafluorobenzene         | 5.556          | 168  | 409812     | 50.000      | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.763          | 114  | 700401     | 50.000      | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 10.055         | 117  | 709714     | 50.000      | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.024         | 152  | 321430     | 50.000      | ug/l   | 0.00     |
|                               |                |      |            |             |        |          |
| System Monitoring Compounds   |                |      |            |             |        |          |
| 33) 1,2-Dichloroethane-d4     | 5.958          | 65   | 250534     | 46.886      | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 61 - 141 |      | Recovery = | 93.780%     |        |          |
| 35) Dibromofluoromethane      | 5.391          | 113  | 230408     | 46.909      | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 69 - 133 |      | Recovery = | 93.820%     |        |          |
| 50) Toluene-d8                | 8.653          | 98   | 851821     | 45.152      | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 65 - 126 |      | Recovery = | 90.300%     |        |          |
| 62) 4-Bromofluorobenzene      | 11.079         | 95   | 320167     | 44.385      | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 58 - 135 |      | Recovery = | 88.780%     |        |          |
|                               |                |      |            |             |        |          |
| Target Compounds              |                |      |            |             |        |          |
|                               |                |      |            |             | Qvalue |          |
| 3) Chloromethane              | 1.295          | 50   | 442        | Below Cal   | #      | 88       |
| 5) Bromomethane               | 1.612          | 94   | 964        | Below Cal   |        | 89       |
| 6) Chloroethane               | 1.715          | 64   | 317        | Below Cal   | #      | 43       |
| 8) Diethyl Ether              | 2.136          | 74   | 179        | Below Cal   |        | 75       |
| 10) Methyl Iodide             | 2.453          | 142  | 219        | 5.278 ug/l  | #      | 90       |
| 11) Tert butyl alcohol        | 2.947          | 59   | 2599       | Below Cal   | #      | 74       |
| 16) Acetone                   | 2.374          | 43   | 26955      | 15.205 ug/l |        | 91       |
| 18) Methyl Acetate            | 2.709          | 43   | 3119       | 0.656 ug/l  |        | 92       |
| 20) Methylene Chloride        | 2.788          | 84   | 196107     | 49.463 ug/l |        | 97       |
| 25) 2-Butanone                | 4.568          | 43   | 4518       | 1.428 ug/l  |        | 91       |
| 31) Cyclohexane               | 5.556          | 56   | 8295       | 1.274 ug/l  | #      | 7        |
| 36) 1,1-Dichloropropene       | 5.556          | 75   | 30234      | 4.719 ug/l  | #      | 49       |
| 38) Carbon Tetrachloride      | 5.550          | 117  | 40568      | 5.609 ug/l  | #      | 15       |
| 43) Isopropyl Acetate         | 6.342          | 43   | 30517      | 2.884 ug/l  |        | 97       |
| 48) Methyl methacrylate       | 7.598          | 41   | 7887       | 1.624 ug/l  | #      | 7        |
| 49) 1,4-Dioxane               | 7.793          | 88   | 327        | 2.516 ug/l  | #      | 1        |
| 51) 4-Methyl-2-Pentanone      | 8.549          | 43   | 113846     | 16.767 ug/l | #      | 44       |
| 54) cis-1,3-Dichloropropene   | 8.549          | 75   | 60576      | 7.669 ug/l  | #      | 65       |
| 57) 1,3-Dichloropropane       | 9.482          | 76   | 39421      | 4.613 ug/l  | #      | 43       |
| 59) 2-Hexanone                | 9.482          | 43   | 434275     | 82.570 ug/l | #      | 45       |
| 76) 1,2,3-Trichloropropane    | 11.079         | 75   | 157813     | 24.947 ug/l | #      | 38       |
| 80) 1,3,5-Trimethylbenzene    | 11.451         | 105  | 5732       | 0.306 ug/l  |        | 99       |
| 81) trans-1,4-Dichloro-2-b... | 11.079         | 75   | 157813     | 74.136 ug/l | #      | 15       |
| -----                         |                |      |            |             |        |          |

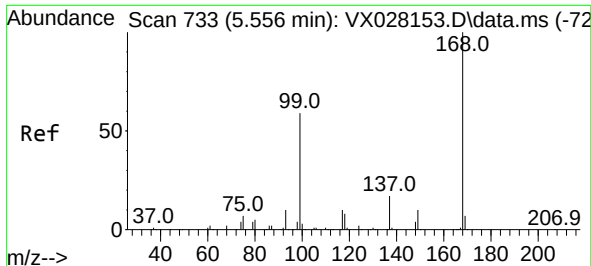
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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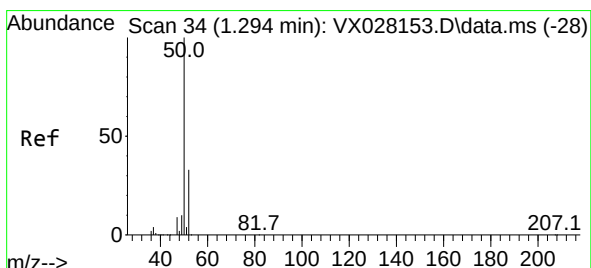
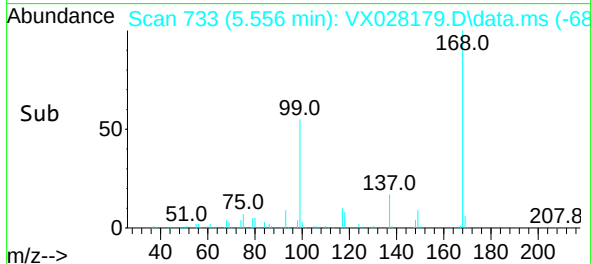
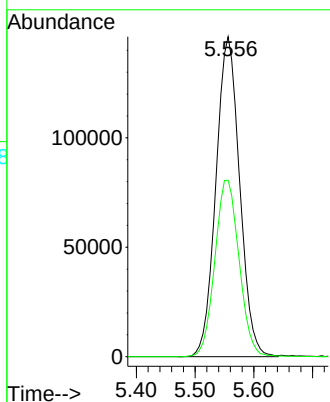
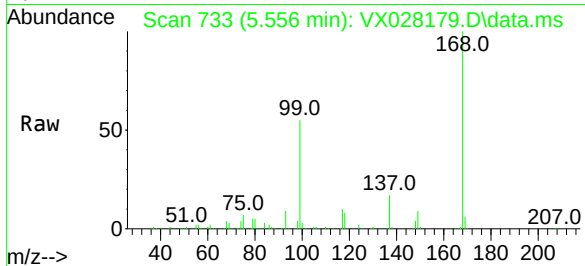




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.556 min Scan# 71  
Delta R.T. 0.000 min  
Lab File: VX028179.D  
Acq: 19 Apr 2022 23:12

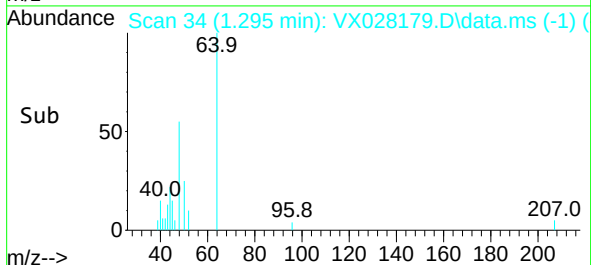
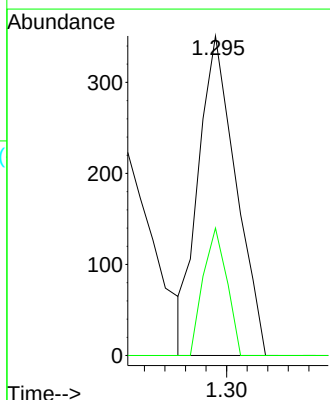
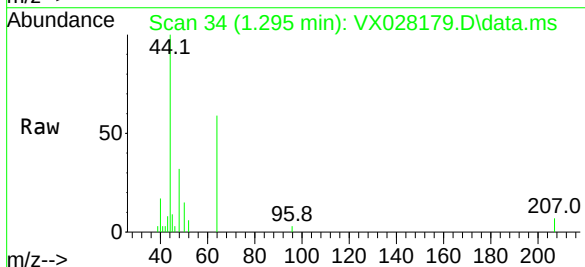
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB144164ZHE#09

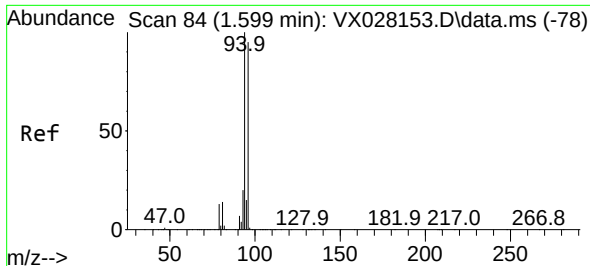
Tgt Ion:168 Resp: 409812  
Ion Ratio Lower Upper  
168 100  
99 55.2 41.7 62.5



#3  
Chloromethane  
Concen: Below Cal  
RT: 1.295 min Scan# 34  
Delta R.T. 0.001 min  
Lab File: VX028179.D  
Acq: 19 Apr 2022 23:12

Tgt Ion: 50 Resp: 442  
Ion Ratio Lower Upper  
50 100  
52 39.9 26.4 39.6#





#5

Bromomethane

Concen: Below Cal

RT: 1.612 min Scan# 80

Delta R.T. 0.013 min

Lab File: VX028179.D

Acq: 19 Apr 2022 23:12

Instrument :

MSVOA\_X

ClientSampleId :

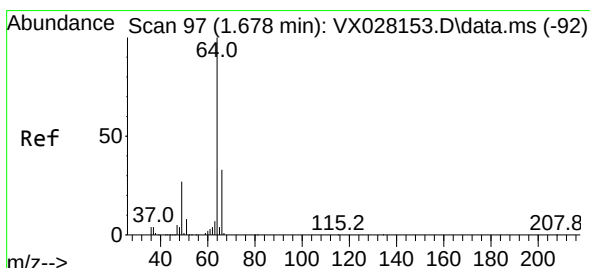
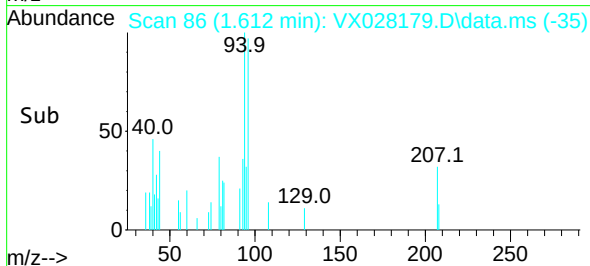
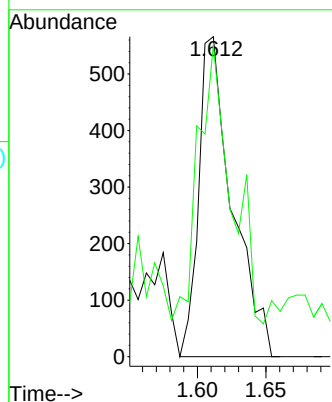
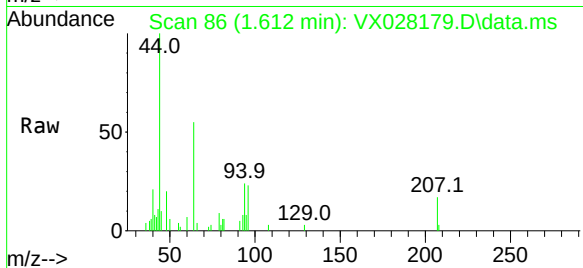
PB144164ZHE#09

Tgt Ion: 94 Resp: 964

Ion Ratio Lower Upper

94 100

96 83.2 75.3 112.9



#6

Chloroethane

Concen: Below Cal

RT: 1.715 min Scan# 103

Delta R.T. 0.037 min

Lab File: VX028179.D

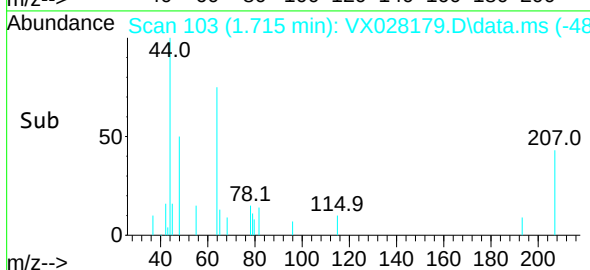
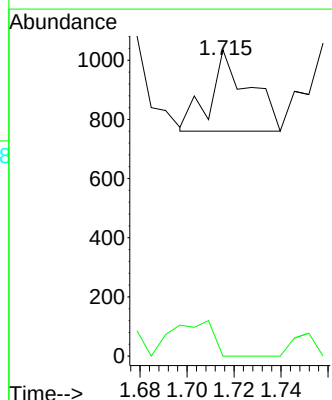
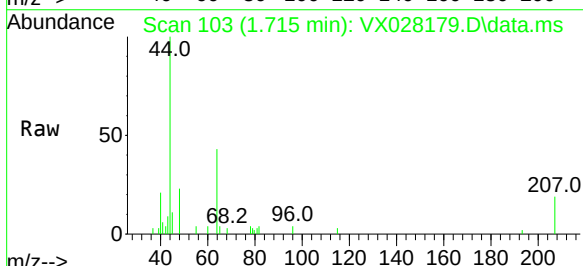
Acq: 19 Apr 2022 23:12

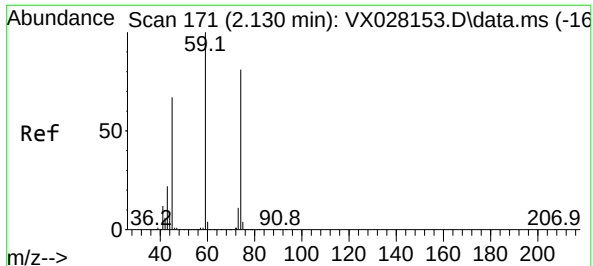
Tgt Ion: 64 Resp: 317

Ion Ratio Lower Upper

64 100

66 0.0 25.3 37.9#

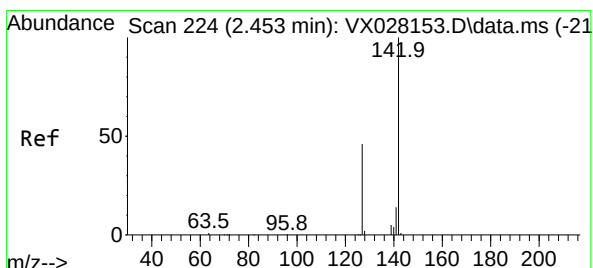
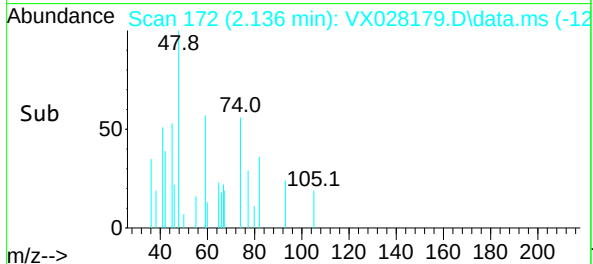
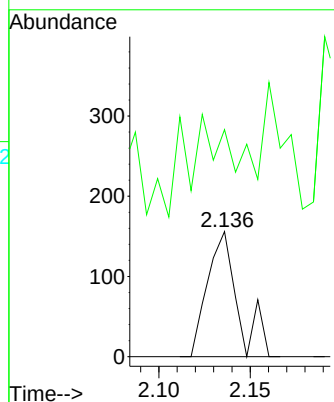
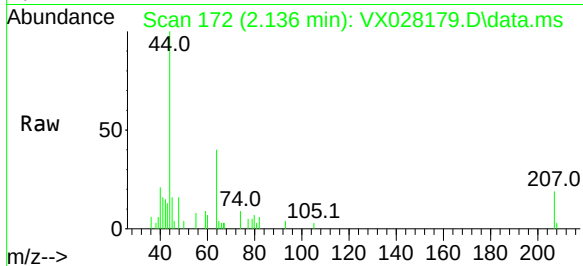




#8  
Diethyl Ether  
Concen: Below Cal  
RT: 2.136 min Scan# 11  
Delta R.T. 0.006 min  
Lab File: VX028179.D  
Acq: 19 Apr 2022 23:12

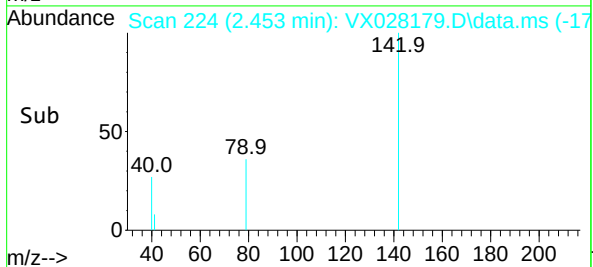
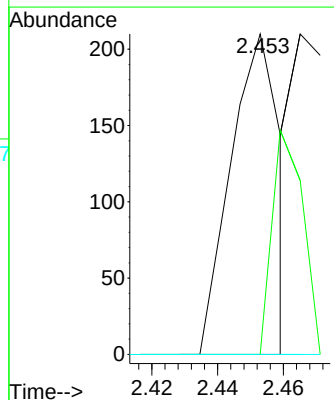
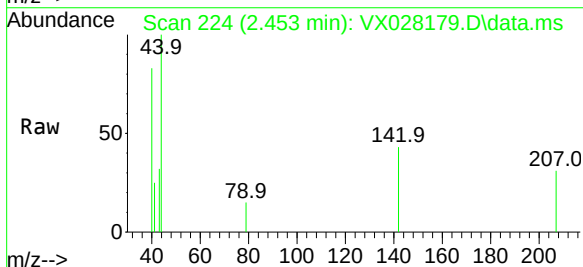
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB144164ZHE#09

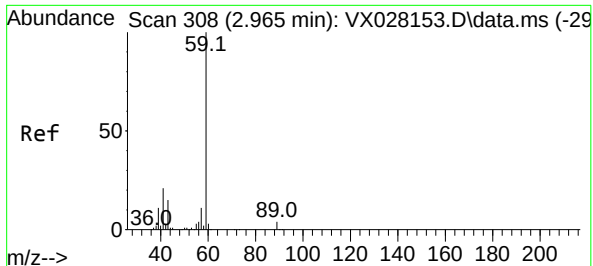
Tgt Ion: 74 Resp: 179  
Ion Ratio Lower Upper  
74 100  
45 106.7 42.0 126.0



#10  
Methyl Iodide  
Concen: 5.278 ug/l  
RT: 2.453 min Scan# 224  
Delta R.T. -0.000 min  
Lab File: VX028179.D  
Acq: 19 Apr 2022 23:12

Tgt Ion:142 Resp: 219  
Ion Ratio Lower Upper  
142 100  
127 43.4 33.9 50.9  
141 0.0 11.4 17.2#





#11

Tert butyl alcohol

Concen: Below Cal

RT: 2.947 min Scan# 308

Delta R.T. -0.018 min

Lab File: VX028179.D

Acq: 19 Apr 2022 23:12

Instrument :

MSVOA\_X

ClientSampleId :

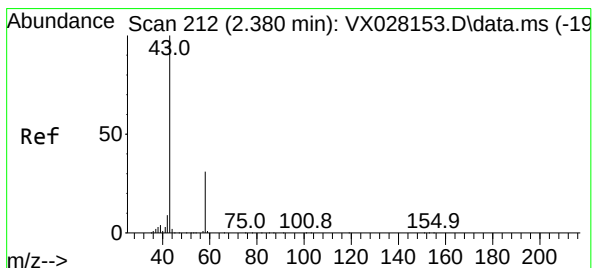
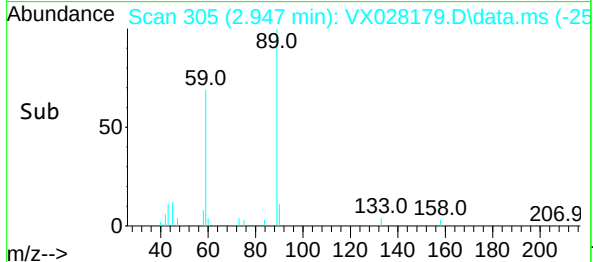
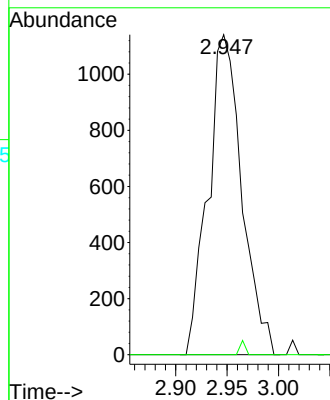
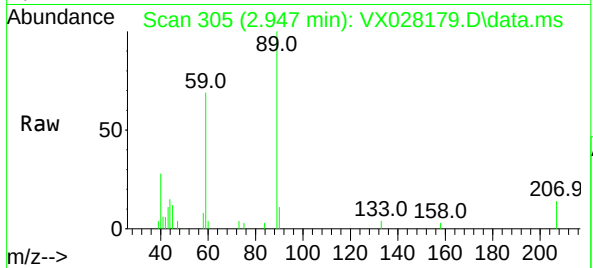
PB144164ZHE#09

Tgt Ion: 59 Resp: 2599

Ion Ratio Lower Upper

59 100

57 0.7 8.3 12.5#



#16

Acetone

Concen: 15.205 ug/l

RT: 2.374 min Scan# 211

Delta R.T. -0.006 min

Lab File: VX028179.D

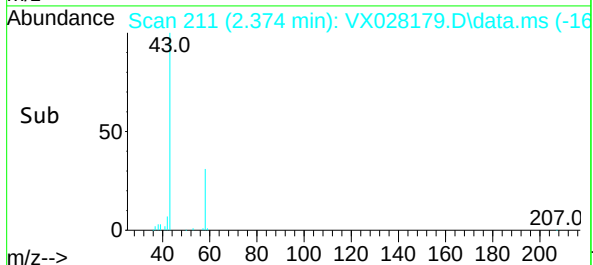
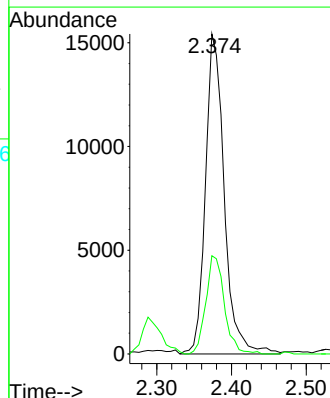
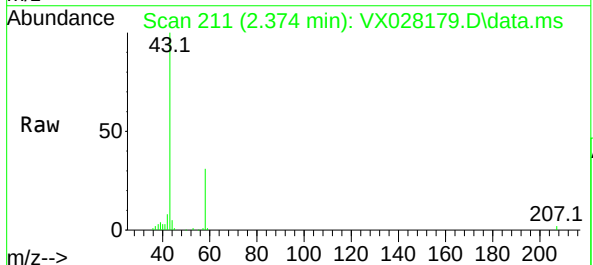
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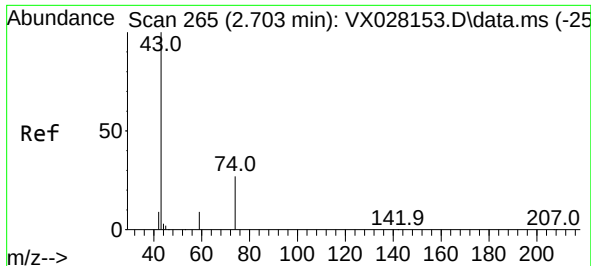
Tgt Ion: 43 Resp: 26955

Ion Ratio Lower Upper

43 100

58 30.7 28.8 43.2

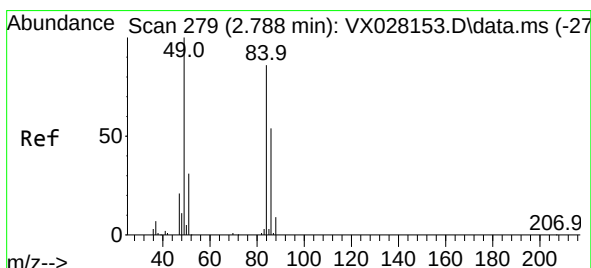
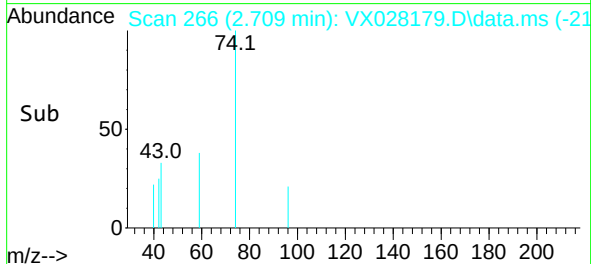
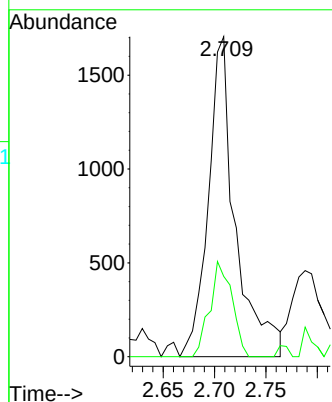
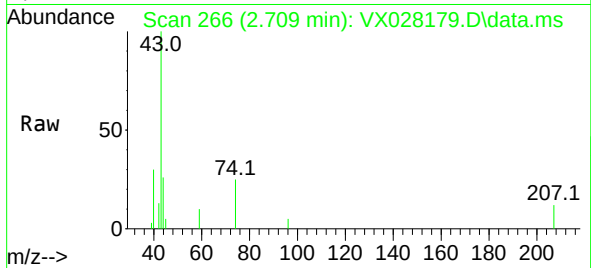




#18  
Methyl Acetate  
Concen: 0.656 ug/l  
RT: 2.709 min Scan# 20  
Delta R.T. 0.006 min  
Lab File: VX028179.D  
Acq: 19 Apr 2022 23:12

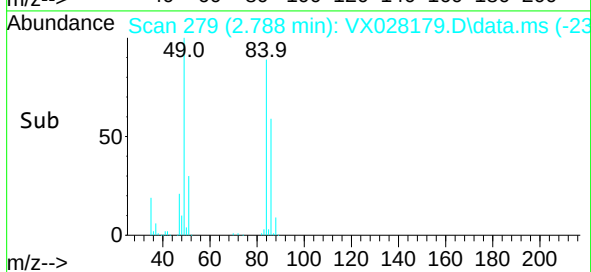
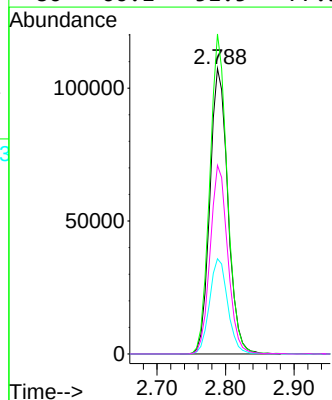
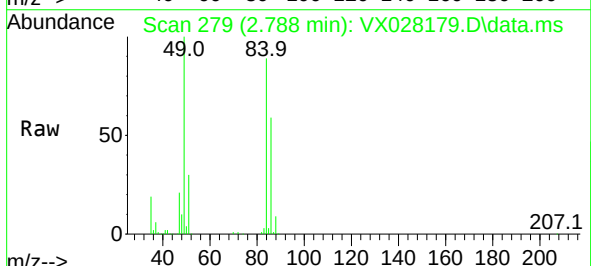
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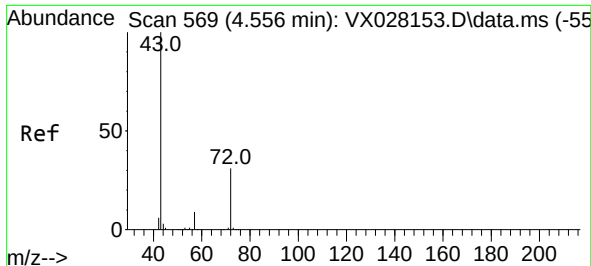
Tgt Ion: 43 Resp: 3119  
Ion Ratio Lower Upper  
43 100  
74 24.4 22.8 34.2



#20  
Methylene Chloride  
Concen: 49.463 ug/l  
RT: 2.788 min Scan# 279  
Delta R.T. 0.000 min  
Lab File: VX028179.D  
Acq: 19 Apr 2022 23:12

Tgt Ion: 84 Resp: 196107  
Ion Ratio Lower Upper  
84 100  
49 112.1 85.5 128.3  
51 33.3 26.6 39.8  
86 66.1 51.5 77.3

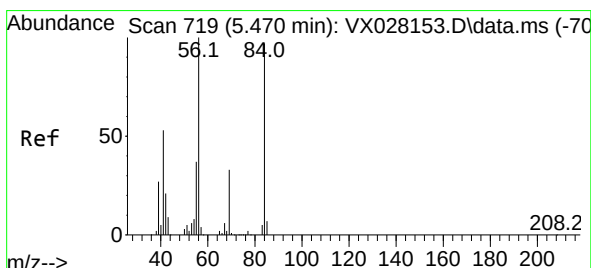
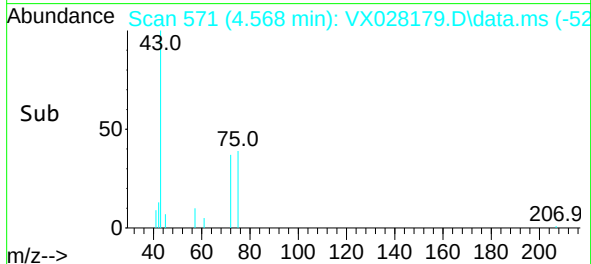
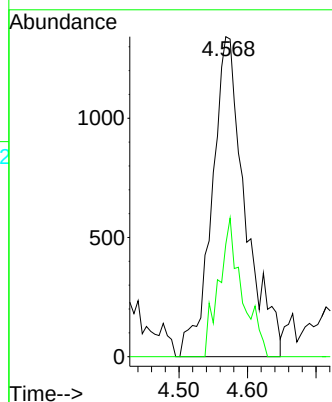
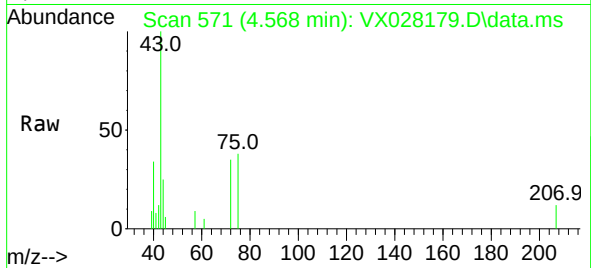




#25  
2-Butanone  
Concen: 1.428 ug/l  
RT: 4.568 min Scan# 51  
Delta R.T. 0.012 min  
Lab File: VX028179.D  
Acq: 19 Apr 2022 23:12

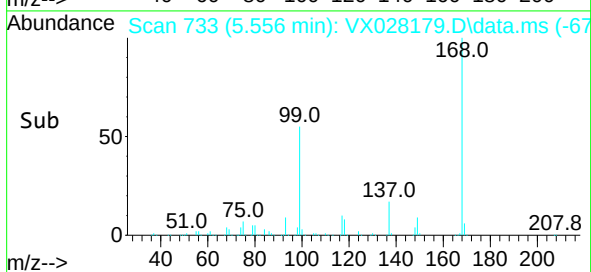
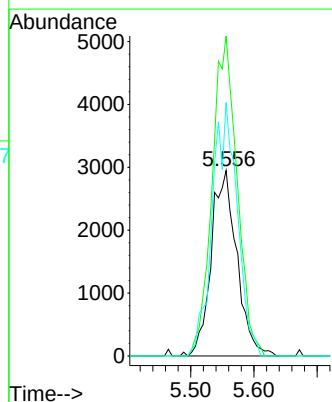
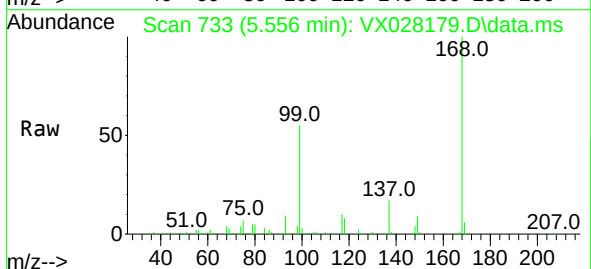
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB144164ZHE#09

Tgt Ion: 43 Resp: 4518  
Ion Ratio Lower Upper  
43 100  
72 35.2 24.4 36.6

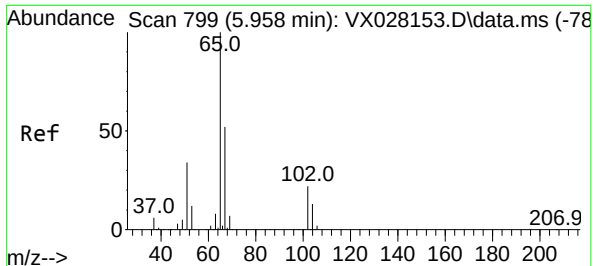


#31  
Cyclohexane  
Concen: 1.274 ug/l  
RT: 5.556 min Scan# 733  
Delta R.T. 0.086 min  
Lab File: VX028179.D  
Acq: 19 Apr 2022 23:12

Tgt Ion: 56 Resp: 8295  
Ion Ratio Lower Upper  
56 100  
69 172.6 26.7 40.1#  
84 136.7 77.2 115.8#







#33

1,2-Dichloroethane-d4

Concen: 46.886 ug/l

RT: 5.958 min Scan# 799

Delta R.T. 0.000 min

Lab File: VX028179.D

Acq: 19 Apr 2022 23:12

Instrument :

MSVOA\_X

ClientSampleId :

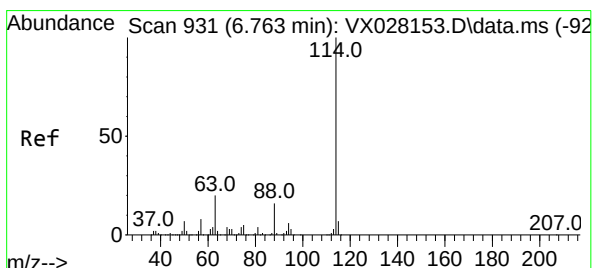
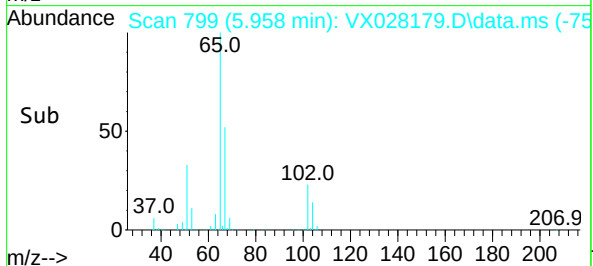
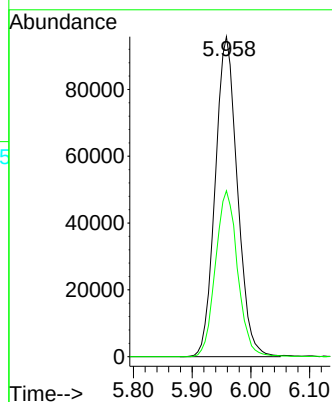
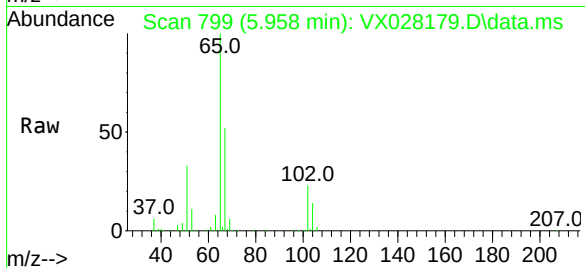
PB144164ZHE#09

Tgt Ion: 65 Resp: 250534

Ion Ratio Lower Upper

65 100

67 51.9 0.0 107.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.763 min Scan# 931

Delta R.T. 0.000 min

Lab File: VX028179.D

Acq: 19 Apr 2022 23:12

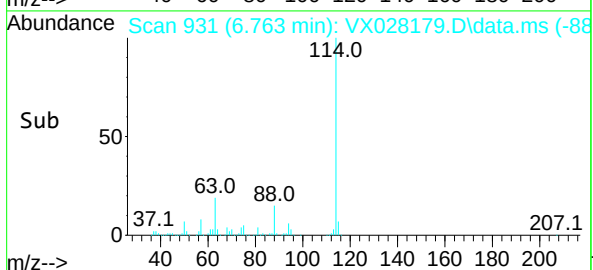
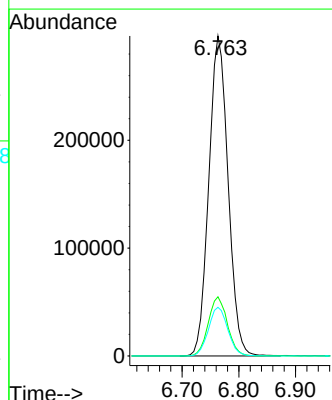
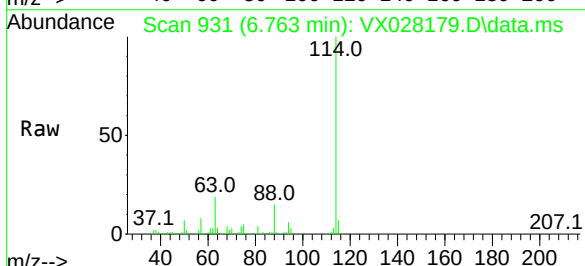
Tgt Ion: 114 Resp: 700401

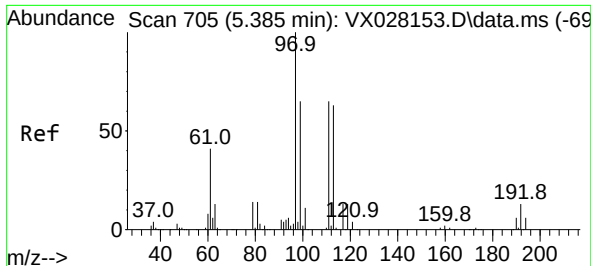
Ion Ratio Lower Upper

114 100

63 18.5 0.0 36.8

88 15.2 0.0 32.4

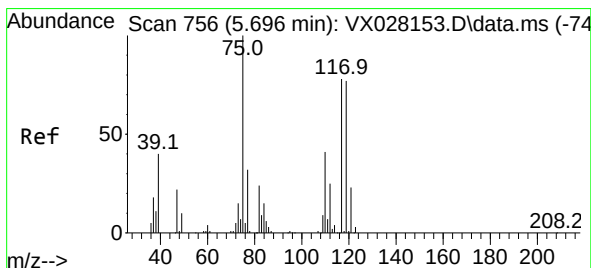
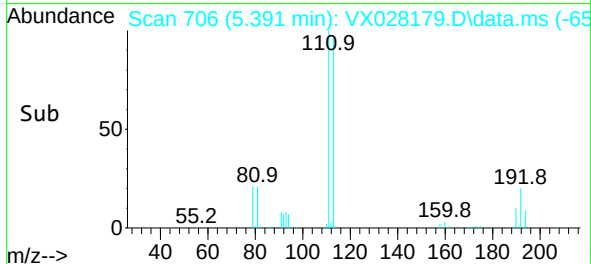
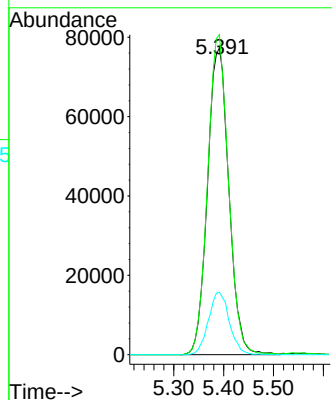
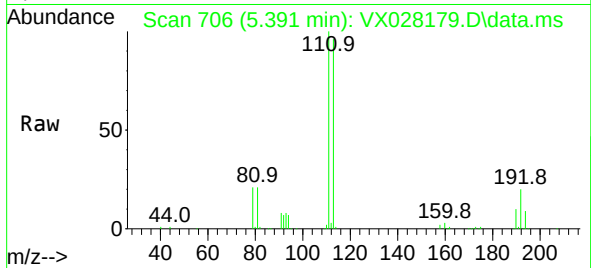




#35  
Dibromofluoromethane  
Concen: 46.909 ug/l  
RT: 5.391 min Scan# 705  
Delta R.T. 0.006 min  
Lab File: VX028179.D  
Acq: 19 Apr 2022 23:12

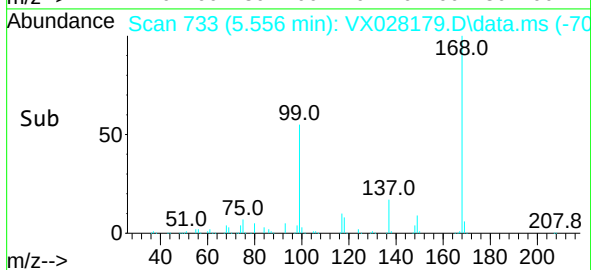
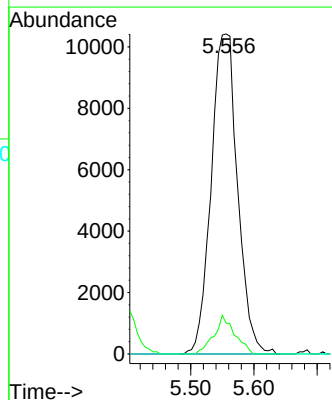
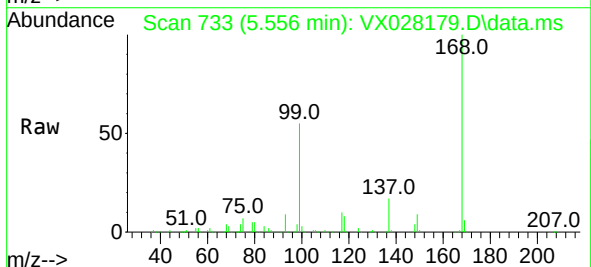
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB144164ZHE#09

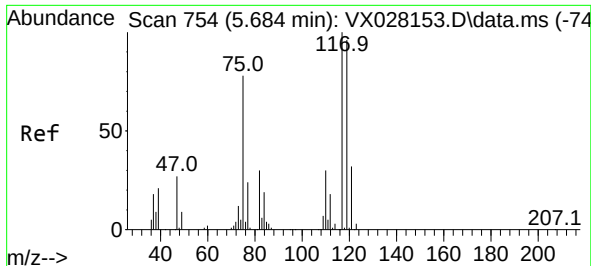
Tgt Ion:113 Resp: 230408  
Ion Ratio Lower Upper  
113 100  
111 101.7 82.8 124.2  
192 19.9 16.9 25.3



#36  
1,1-Dichloropropene  
Concen: 4.719 ug/l  
RT: 5.556 min Scan# 733  
Delta R.T. -0.140 min  
Lab File: VX028179.D  
Acq: 19 Apr 2022 23:12

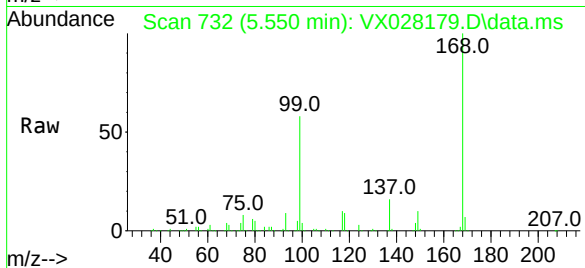
Tgt Ion: 75 Resp: 30234  
Ion Ratio Lower Upper  
75 100  
110 9.5 18.3 54.8#  
77 0.0 24.8 37.2#



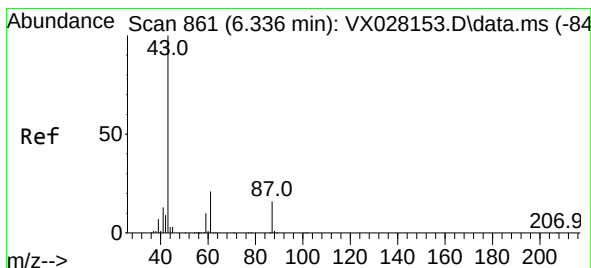
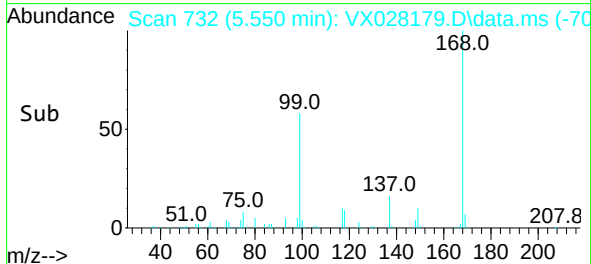
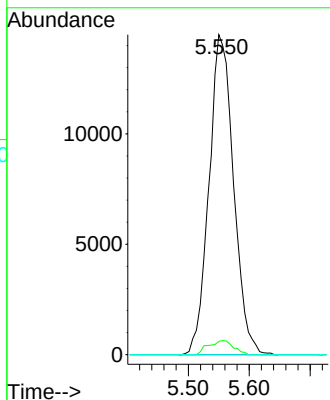


#38  
Carbon Tetrachloride  
Concen: 5.609 ug/l  
RT: 5.550 min Scan# 71  
Delta R.T. -0.134 min  
Lab File: VX028179.D  
Acq: 19 Apr 2022 23:12

Instrument :  
MSVOA\_X  
ClientSampleId :  
PB144164ZHE#09

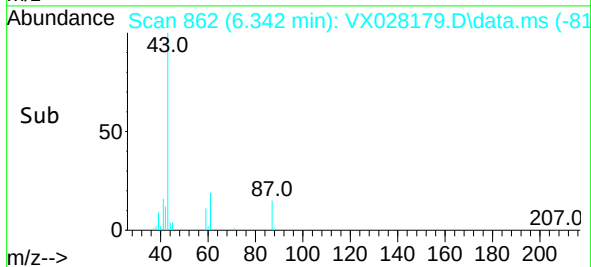
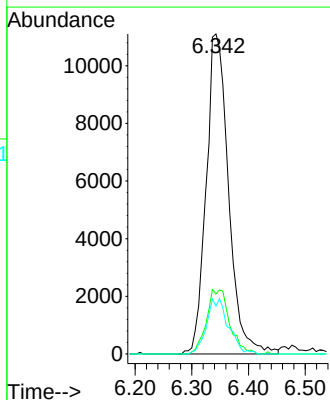
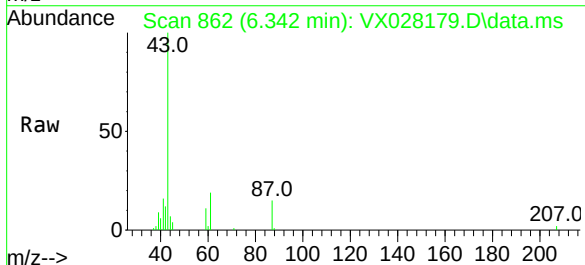


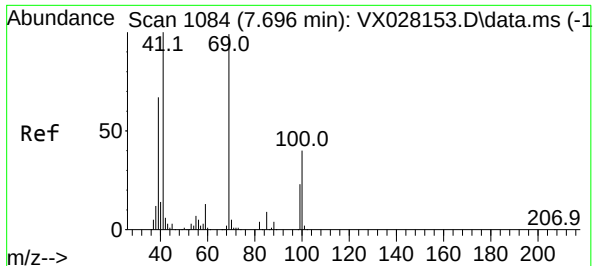
Tgt Ion:117 Resp: 40568  
Ion Ratio Lower Upper  
117 100  
119 4.2 77.3 115.9#  
121 0.0 24.2 36.2#



#43  
Isopropyl Acetate  
Concen: 2.884 ug/l  
RT: 6.342 min Scan# 862  
Delta R.T. 0.006 min  
Lab File: VX028179.D  
Acq: 19 Apr 2022 23:12

Tgt Ion: 43 Resp: 30517  
Ion Ratio Lower Upper  
43 100  
61 20.7 18.5 27.7  
87 16.8 13.0 19.6





#48

Methyl methacrylate

Concen: 1.624 ug/l

RT: 7.598 min Scan# 1100

Delta R.T. -0.098 min

Lab File: VX028179.D

Acq: 19 Apr 2022 23:12

Instrument :

MSVOA\_X

ClientSampleId :

PB144164ZHE#09

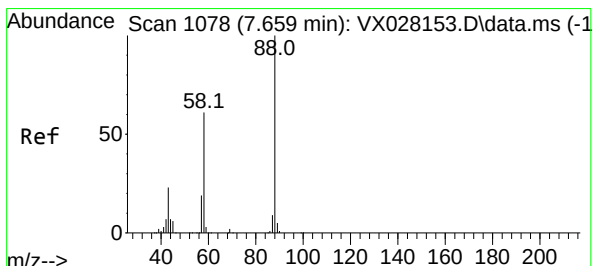
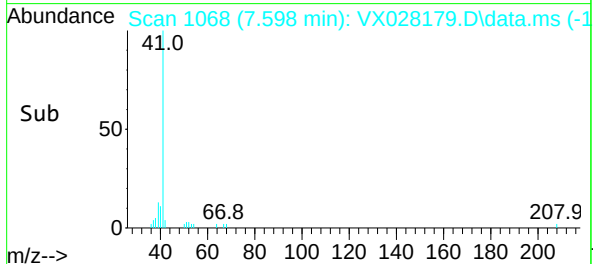
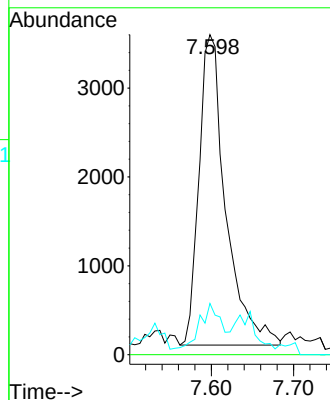
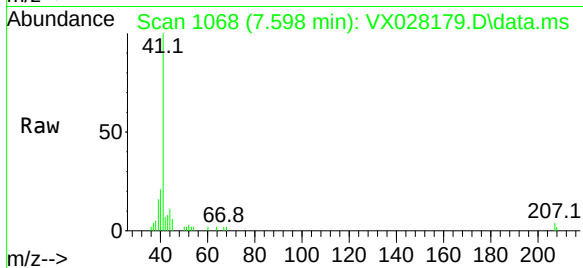
Tgt Ion: 41 Resp: 7887

Ion Ratio Lower Upper

41 100

69 0.0 82.5 123.7#

39 0.0 43.8 65.8#



#49

1,4-Dioxane

Concen: 2.516 ug/l

RT: 7.793 min Scan# 1100

Delta R.T. 0.134 min

Lab File: VX028179.D

Acq: 19 Apr 2022 23:12

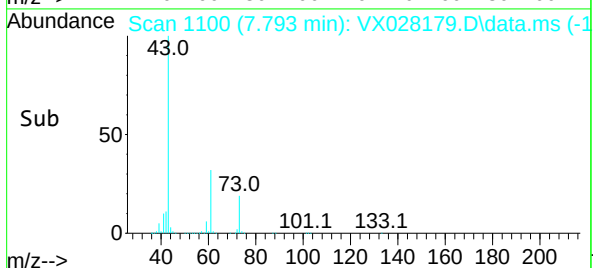
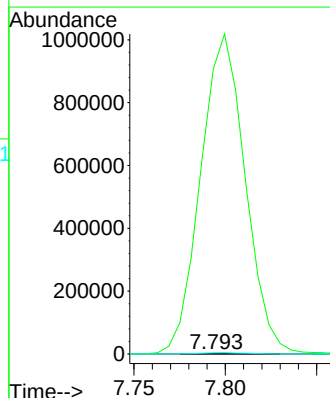
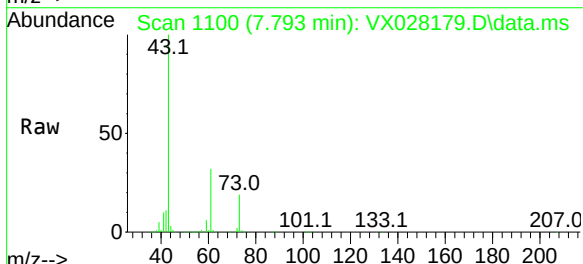
Tgt Ion: 88 Resp: 327

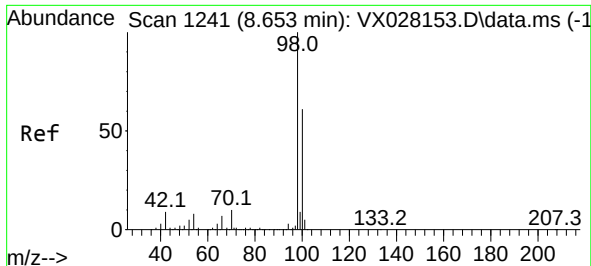
Ion Ratio Lower Upper

88 100

43 532181.7 21.9 32.9#

58 2294.5 53.7 80.5#

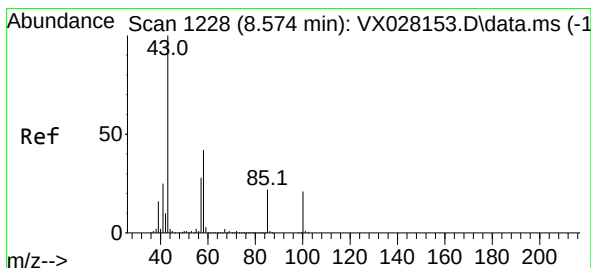
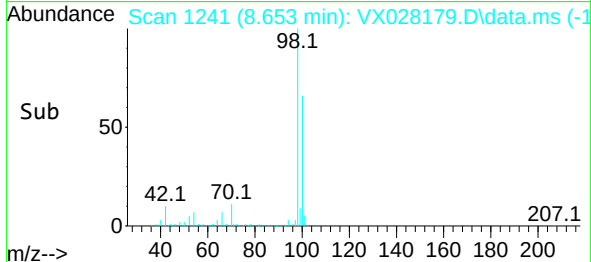
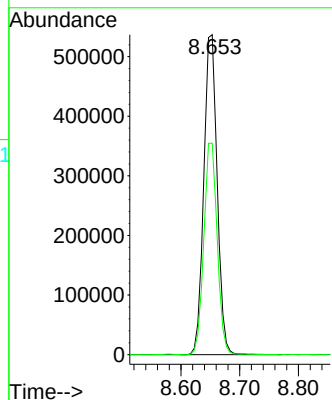
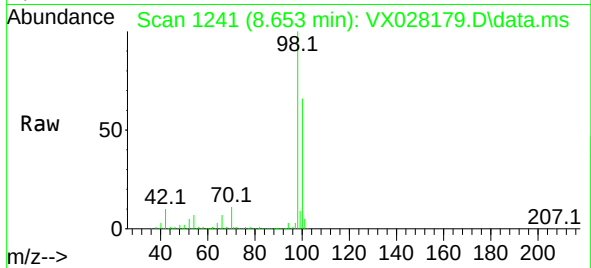




#50  
Toluene-d8  
Concen: 45.152 ug/l  
RT: 8.653 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VX028179.D  
Acq: 19 Apr 2022 23:12

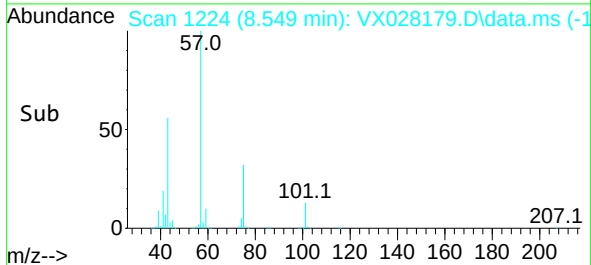
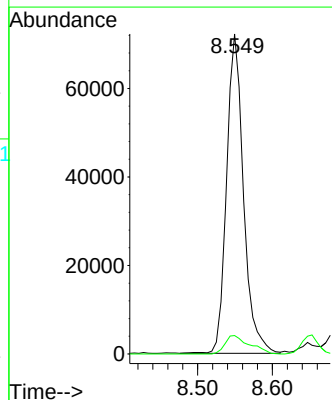
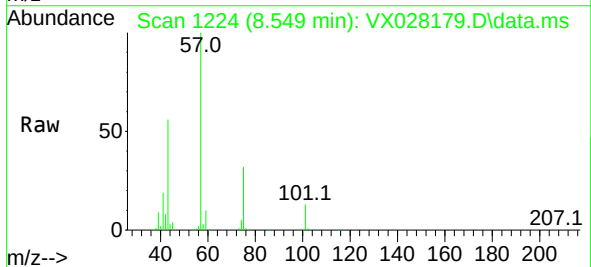
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB144164ZHE#09

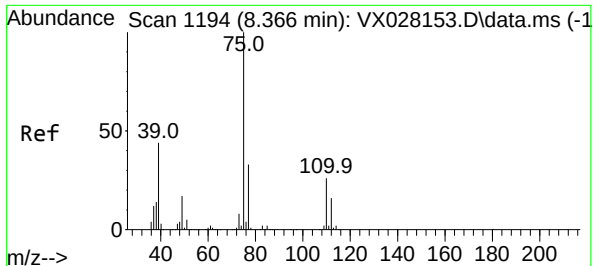
Tgt Ion: 98 Resp: 851821  
Ion Ratio Lower Upper  
98 100  
100 66.3 52.6 78.8



#51  
4-Methyl-2-Pentanone  
Concen: 16.767 ug/l  
RT: 8.549 min Scan# 1224  
Delta R.T. -0.025 min  
Lab File: VX028179.D  
Acq: 19 Apr 2022 23:12

Tgt Ion: 43 Resp: 113846  
Ion Ratio Lower Upper  
43 100  
58 8.3 36.1 54.1#

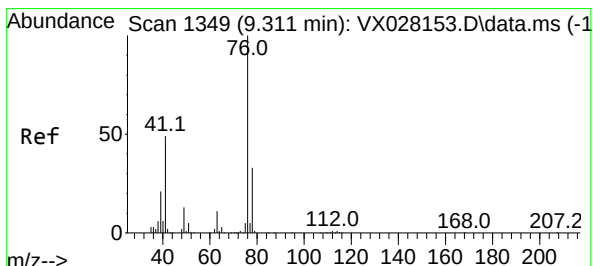
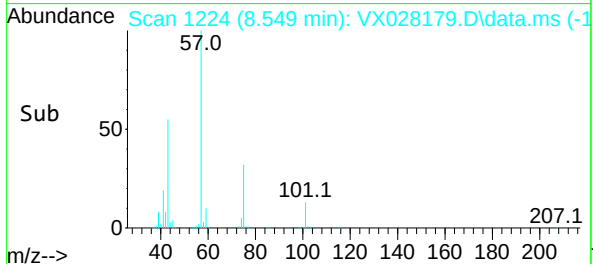
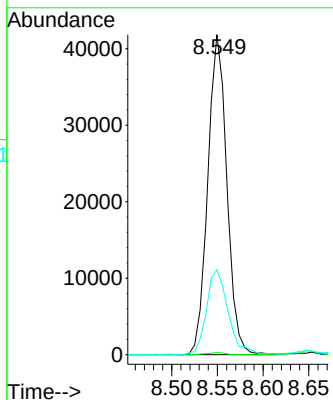
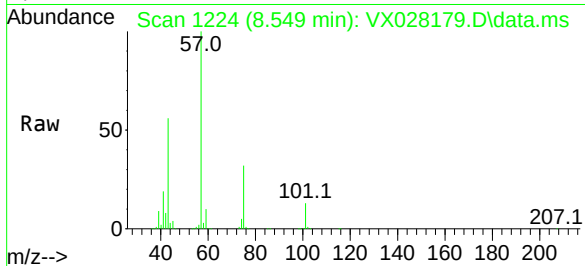




#54  
 cis-1,3-Dichloropropene  
 Concen: 7.669 ug/l  
 RT: 8.549 min Scan# 1194  
 Delta R.T. 0.183 min  
 Lab File: VX028179.D  
 Acq: 19 Apr 2022 23:12

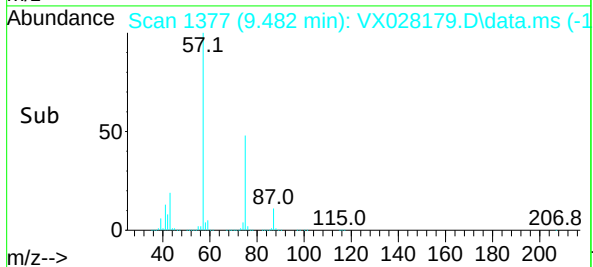
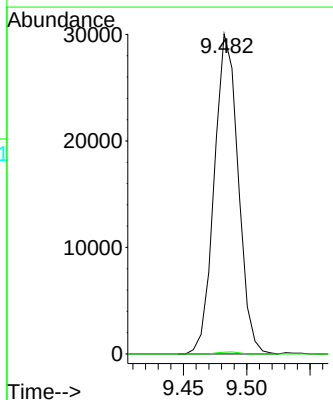
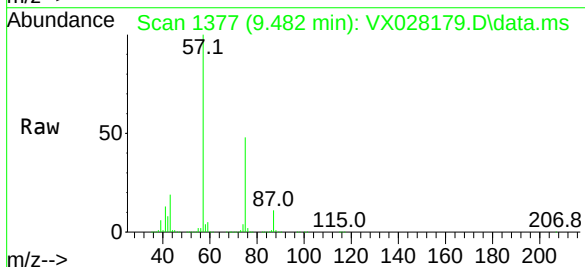
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 PB144164ZHE#09

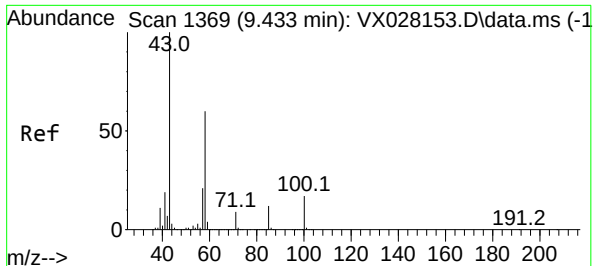
Tgt Ion: 75 Resp: 60576  
 Ion Ratio Lower Upper  
 75 100  
 77 0.7 24.8 37.2#  
 39 26.5 29.6 44.4#



#57  
 1,3-Dichloropropane  
 Concen: 4.613 ug/l  
 RT: 9.482 min Scan# 1377  
 Delta R.T. 0.171 min  
 Lab File: VX028179.D  
 Acq: 19 Apr 2022 23:12

Tgt Ion: 76 Resp: 39421  
 Ion Ratio Lower Upper  
 76 100  
 78 0.5 25.8 38.8#





#59

2-Hexanone

Concen: 82.570 ug/l

RT: 9.482 min Scan# 1377

Delta R.T. 0.049 min

Lab File: VX028179.D

Acq: 19 Apr 2022 23:12

Instrument :

MSVOA\_X

ClientSampleId :

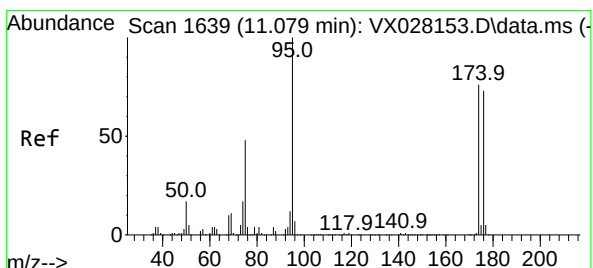
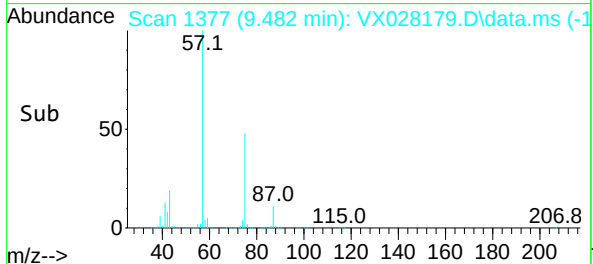
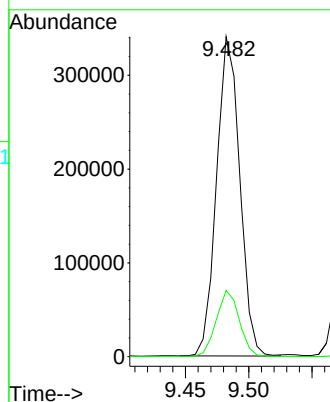
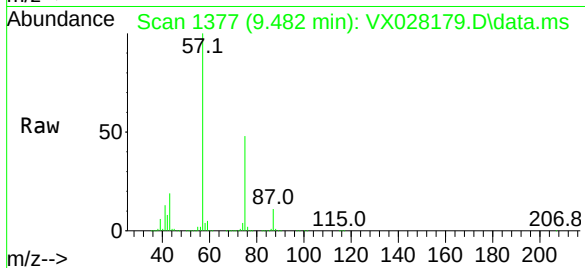
PB144164ZHE#09

Tgt Ion: 43 Resp: 434275

Ion Ratio Lower Upper

43 100

58 20.8 31.9 95.7#



#62

4-Bromofluorobenzene

Concen: 44.385 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. 0.000 min

Lab File: VX028179.D

Acq: 19 Apr 2022 23:12

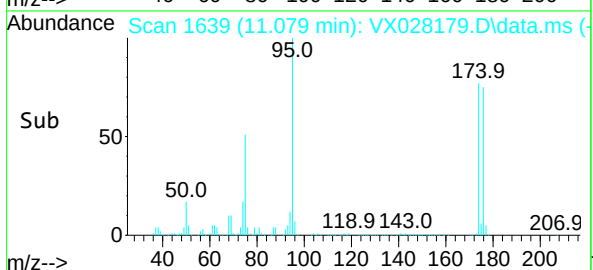
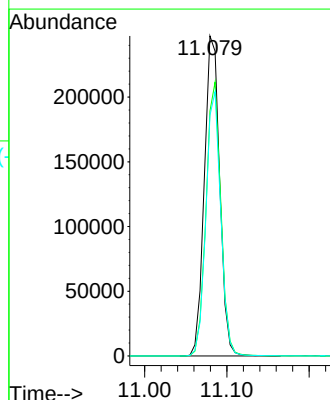
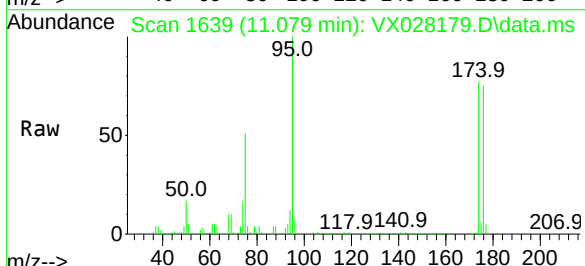
Tgt Ion: 95 Resp: 320167

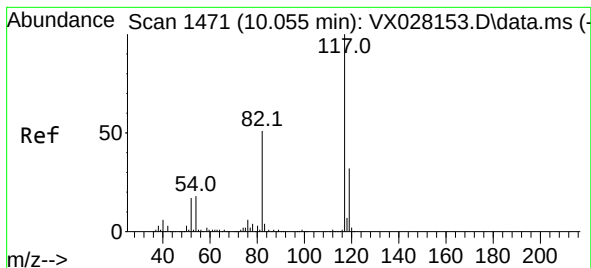
Ion Ratio Lower Upper

95 100

174 82.7 0.0 163.0

176 79.7 0.0 155.0





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.055 min Scan# 1471

Delta R.T. 0.000 min

Lab File: VX028179.D

Acq: 19 Apr 2022 23:12

Instrument :

MSVOA\_X

ClientSampleId :

PB144164ZHE#09

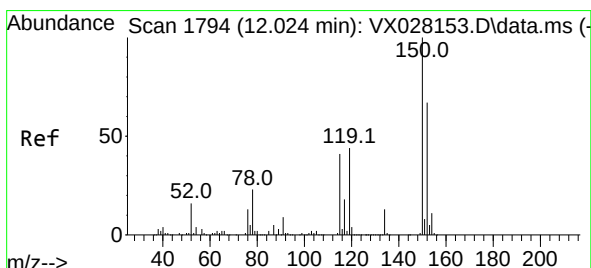
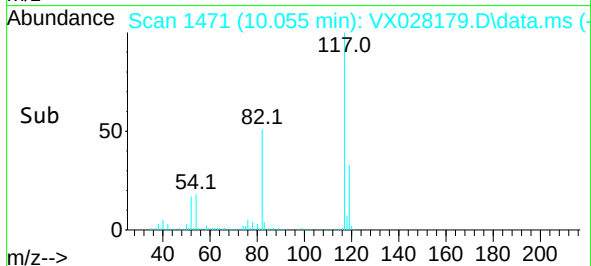
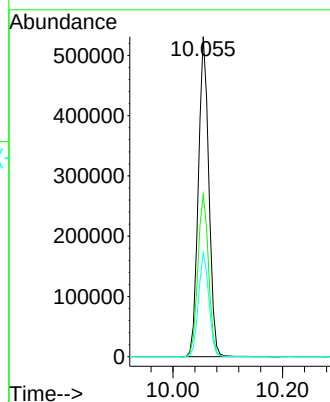
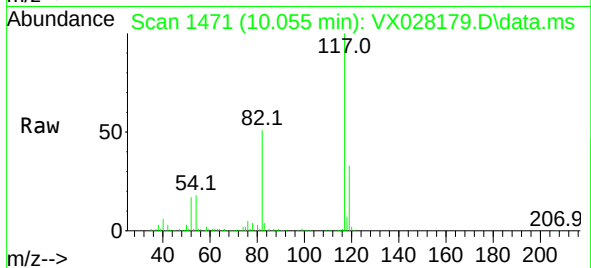
Tgt Ion:117 Resp: 709714

Ion Ratio Lower Upper

117 100

82 50.7 41.8 62.8

119 32.5 24.8 37.2



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.024 min Scan# 1794

Delta R.T. 0.000 min

Lab File: VX028179.D

Acq: 19 Apr 2022 23:12

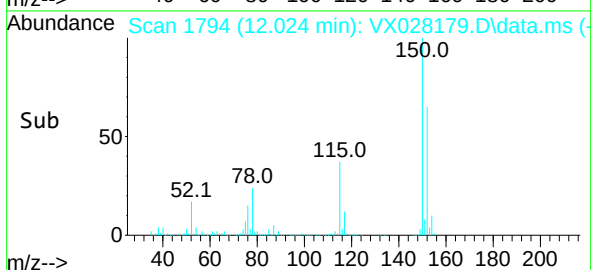
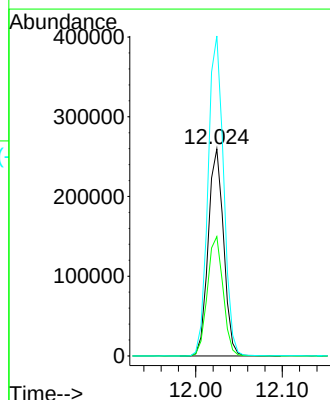
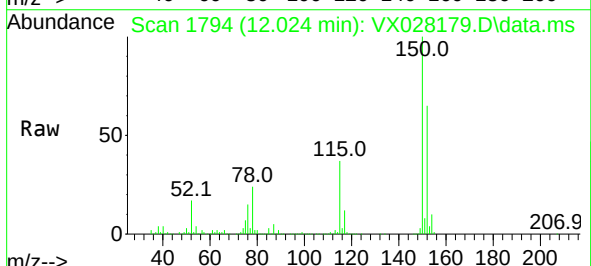
Tgt Ion:152 Resp: 321430

Ion Ratio Lower Upper

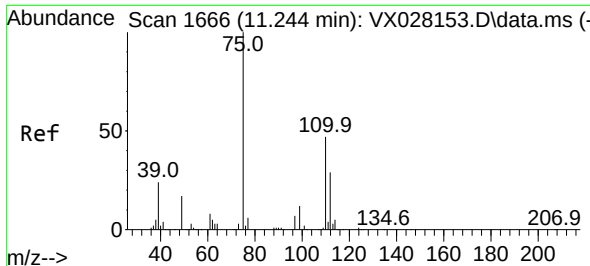
152 100

115 58.8 37.5 112.7

150 156.2 0.0 338.2



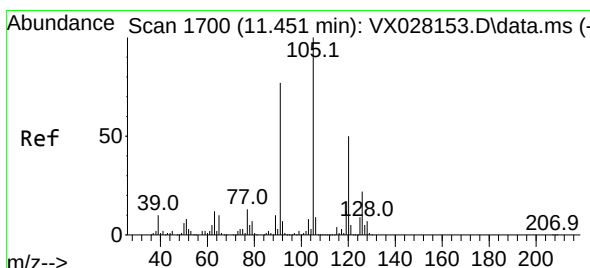
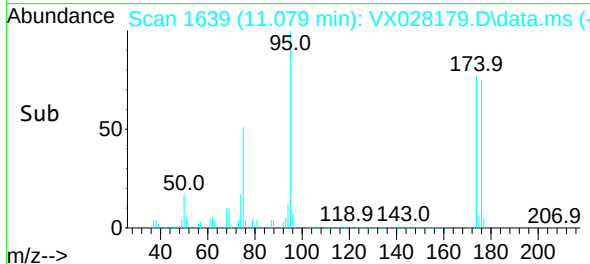
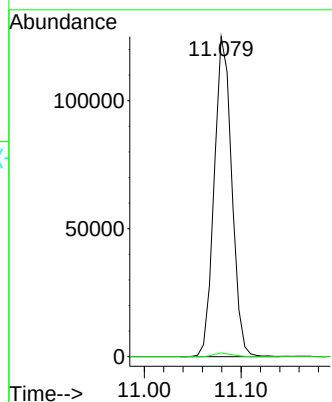
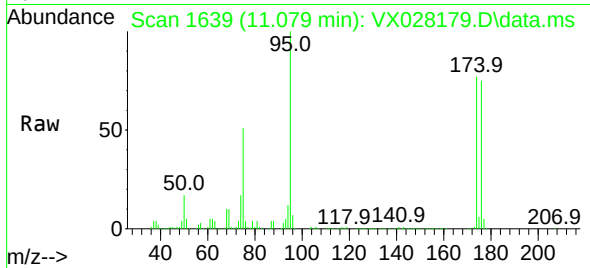




#76  
1,2,3-Trichloropropane  
Concen: 24.947 ug/l  
RT: 11.079 min Scan# 1  
Delta R.T. -0.165 min  
Lab File: VX028179.D  
Acq: 19 Apr 2022 23:12

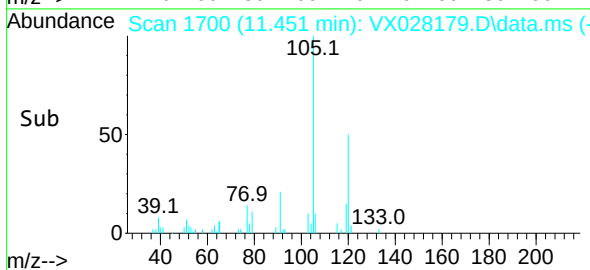
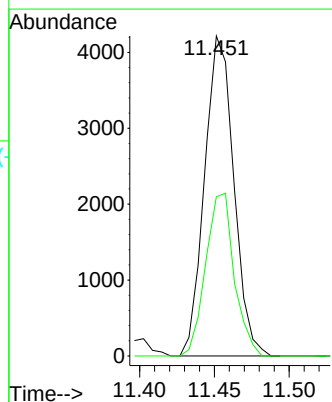
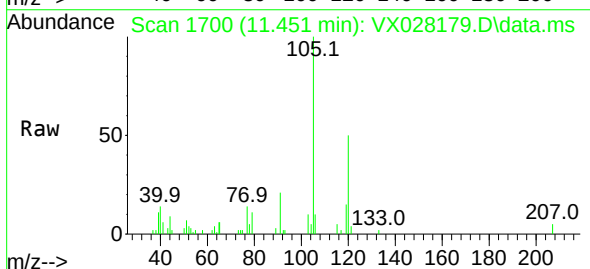
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB144164ZHE#09

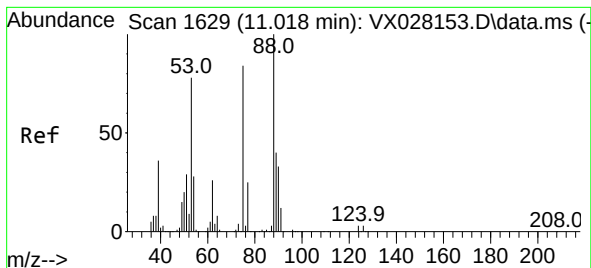
Tgt Ion: 75 Resp: 157813  
Ion Ratio Lower Upper  
75 100  
77 1.1 19.4 58.2#



#80  
1,3,5-Trimethylbenzene  
Concen: 0.306 ug/l  
RT: 11.451 min Scan# 1700  
Delta R.T. 0.000 min  
Lab File: VX028179.D  
Acq: 19 Apr 2022 23:12

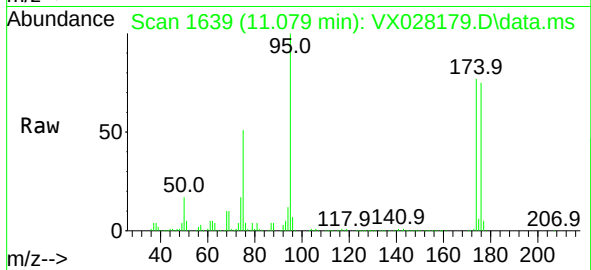
Tgt Ion: 105 Resp: 5732  
Ion Ratio Lower Upper  
105 100  
120 49.5 24.3 72.9





#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 74.136 ug/l  
 RT: 11.079 min Scan# 1  
 Delta R.T. 0.061 min  
 Lab File: VX028179.D  
 Acq: 19 Apr 2022 23:12

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 PB144164ZHE#09



Tgt Ion: 75 Resp: 157813  
 Ion Ratio Lower Upper  
 75 100  
 53 0.0 69.0 103.4#  
 89 0.0 37.0 55.6#

