

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX051022\  
 Data File : VX028595.D  
 Acq On : 10 May 2022 15:12  
 Operator : JC/MD  
 Sample : PB144702ZHE#08  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 PB144702ZHE#08

Quant Time: May 11 07:00:49 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

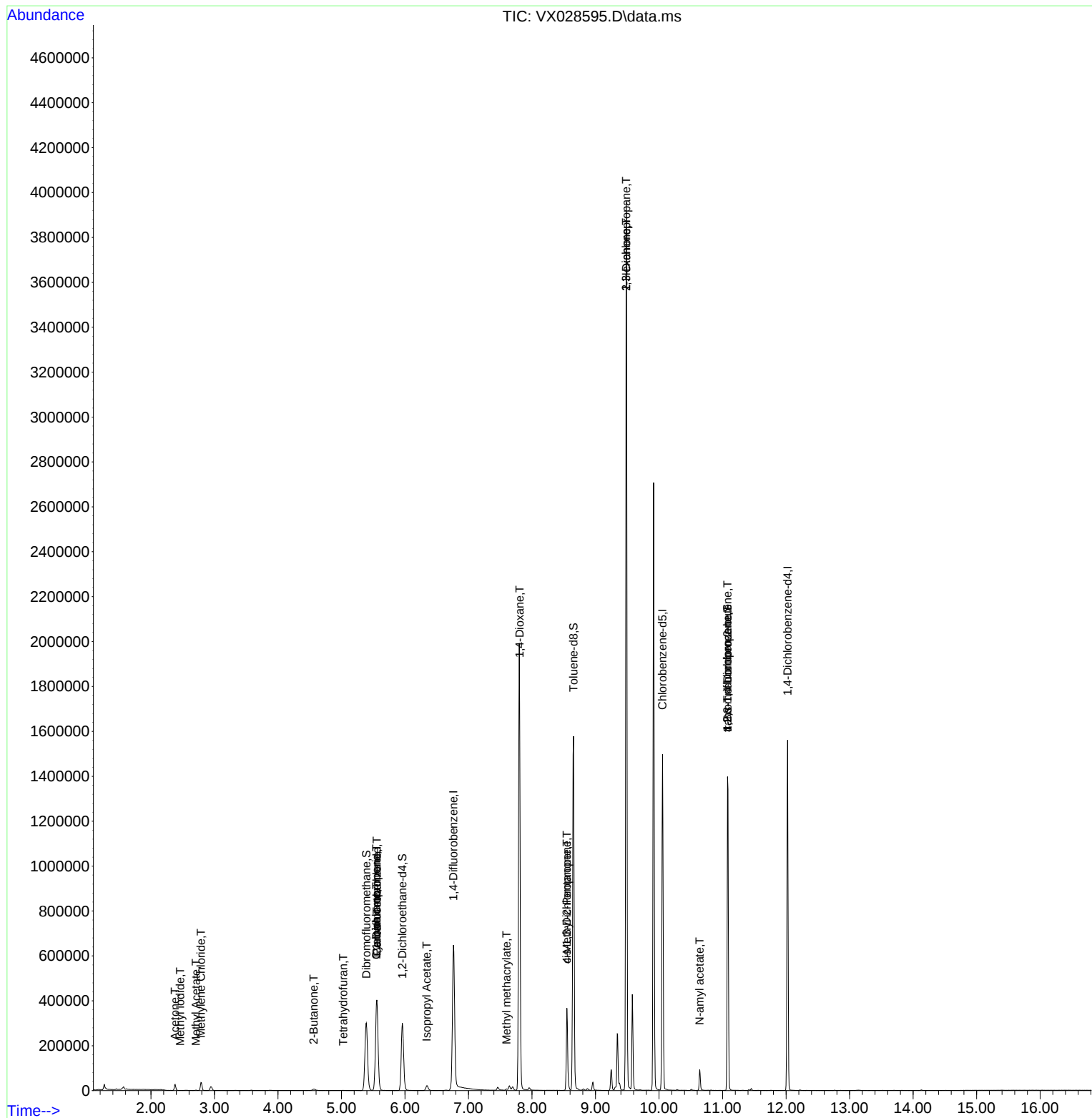
| Compound                      | R.T. QIon |       | Response | Conc      | Units      | Dev(Min) |
|-------------------------------|-----------|-------|----------|-----------|------------|----------|
| -----                         |           |       |          |           |            |          |
| Internal Standards            |           |       |          |           |            |          |
| 1) Pentafluorobenzene         | 5.556     | 168   | 400038   | 50.000    | ug/l       | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.763     | 114   | 690081   | 50.000    | ug/l       | 0.00     |
| 63) Chlorobenzene-d5          | 10.055    | 117   | 678711   | 50.000    | ug/l       | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.024    | 152   | 331882   | 50.000    | ug/l       | 0.00     |
| System Monitoring Compounds   |           |       |          |           |            |          |
| 33) 1,2-Dichloroethane-d4     | 5.958     | 65    | 280828   | 53.839    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000    | Range | 61 - 141 | Recovery  | = 107.680% |          |
| 35) Dibromofluoromethane      | 5.391     | 113   | 265632   | 54.888    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000    | Range | 69 - 133 | Recovery  | = 109.780% |          |
| 50) Toluene-d8                | 8.653     | 98    | 971993   | 52.293    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000    | Range | 65 - 126 | Recovery  | = 104.580% |          |
| 62) 4-Bromofluorobenzene      | 11.079    | 95    | 361646   | 50.885    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000    | Range | 58 - 135 | Recovery  | = 101.780% |          |
| Target Compounds              |           |       |          |           |            |          |
|                               |           |       |          |           |            | Qvalue   |
| 3) Chloromethane              | 1.294     | 50    | 381      | Below Cal | #          | 42       |
| 5) Bromomethane               | 1.618     | 94    | 750      | Below Cal |            | 87       |
| 6) Chloroethane               | 1.666     | 64    | 1270     | Below Cal | #          | 70       |
| 8) Diethyl Ether              | 2.142     | 74    | 89       | Below Cal | #          | 1        |
| 10) Methyl Iodide             | 2.459     | 142   | 384      | 5.312     | ug/l #     | 76       |
| 11) Tert butyl alcohol        | 2.940     | 59    | 9460     | Below Cal | #          | 75       |
| 16) Acetone                   | 2.380     | 43    | 27936    | 16.230    | ug/l       | 98       |
| 18) Methyl Acetate            | 2.709     | 43    | 2178     | 0.470     | ug/l       | 90       |
| 20) Methylene Chloride        | 2.788     | 84    | 17075    | 4.412     | ug/l       | 97       |
| 25) 2-Butanone                | 4.562     | 43    | 5861     | 1.897     | ug/l       | 99       |
| 29) Tetrahydrofuran           | 5.025     | 42    | 933      | 0.463     | ug/l #     | 54       |
| 31) Cyclohexane               | 5.550     | 56    | 7208     | 1.134     | ug/l #     | 45       |
| 36) 1,1-Dichloropropene       | 5.550     | 75    | 28523    | 4.518     | ug/l #     | 49       |
| 38) Carbon Tetrachloride      | 5.556     | 117   | 39199    | 5.501     | ug/l #     | 15       |
| 43) Isopropyl Acetate         | 6.342     | 43    | 29698    | 2.849     | ug/l       | 98       |
| 48) Methyl methacrylate       | 7.598     | 41    | 8105     | 1.693     | ug/l #     | 7        |
| 49) 1,4-Dioxane               | 7.805     | 88    | 280      | 2.187     | ug/l #     | 1        |
| 51) 4-Methyl-2-Pentanone      | 8.549     | 43    | 113151   | 16.914    | ug/l #     | 45       |
| 54) cis-1,3-Dichloropropene   | 8.549     | 75    | 60373    | 7.757     | ug/l #     | 67       |
| 57) 1,3-Dichloropropane       | 9.482     | 76    | 38305    | 4.550     | ug/l #     | 43       |
| 59) 2-Hexanone                | 9.482     | 43    | 426384   | 82.282    | ug/l #     | 45       |
| 74) N-amyl acetate            | 10.640    | 43    | 19534    | 2.478     | ug/l #     | 46       |
| 76) 1,2,3-Trichloropropane    | 11.079    | 75    | 179655   | 27.505    | ug/l #     | 38       |
| 81) trans-1,4-Dichloro-2-b... | 11.079    | 75    | 179655   | 81.738    | ug/l #     | 15       |
| -----                         |           |       |          |           |            |          |

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

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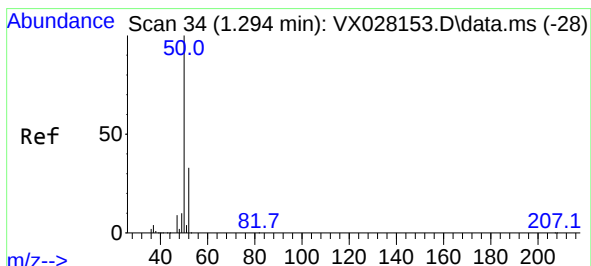
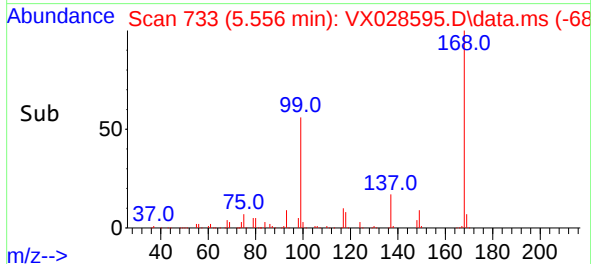
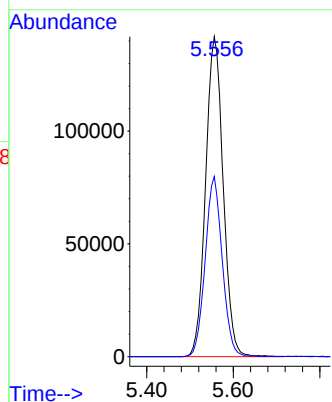
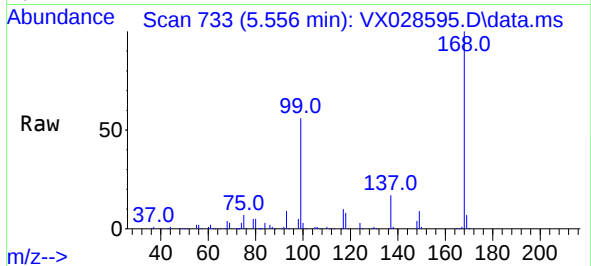




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.556 min Scan# 71  
Delta R.T. -0.000 min  
Lab File: VX028595.D  
Acq: 10 May 2022 15:12

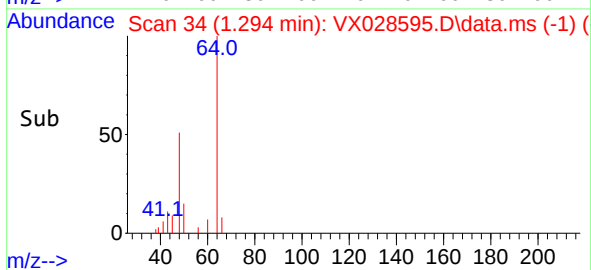
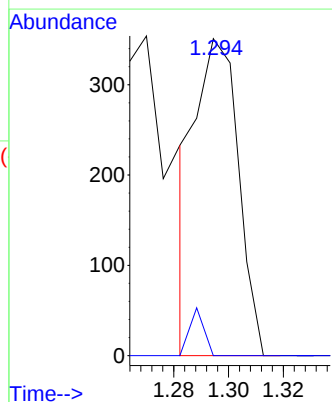
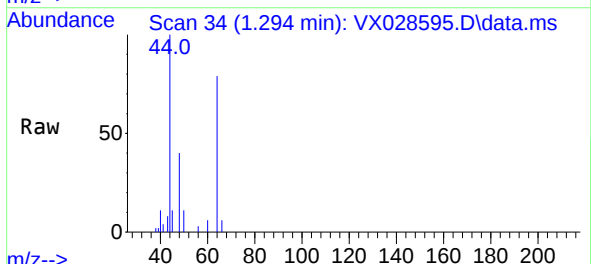
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB144702ZHE#08

Tgt Ion:168 Resp: 400038  
Ion Ratio Lower Upper  
168 100  
99 56.3 41.7 62.5

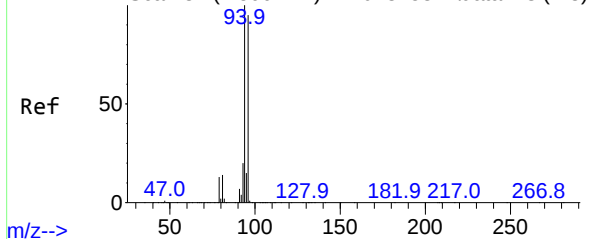


#3  
Chloromethane  
Concen: Below Cal  
RT: 1.294 min Scan# 34  
Delta R.T. 0.000 min  
Lab File: VX028595.D  
Acq: 10 May 2022 15:12

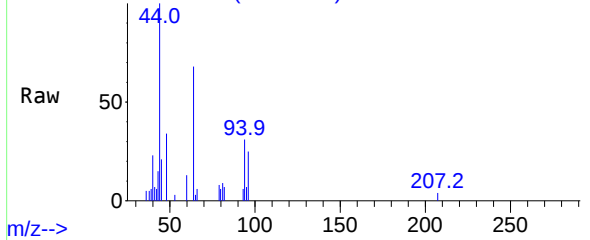
Tgt Ion: 50 Resp: 381  
Ion Ratio Lower Upper  
50 100  
52 0.0 26.4 39.6#



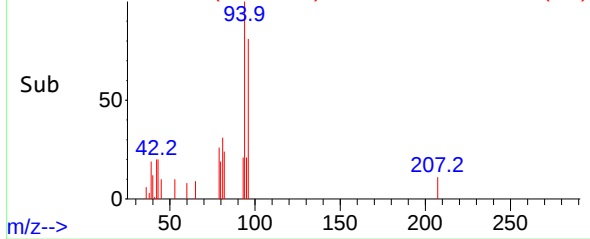
Abundance Scan 84 (1.599 min): VX028153.D\data.ms (-78)



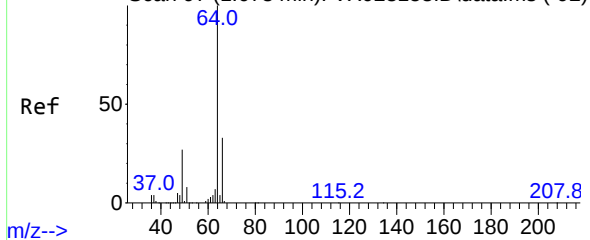
Abundance Scan 87 (1.618 min): VX028595.D\data.ms



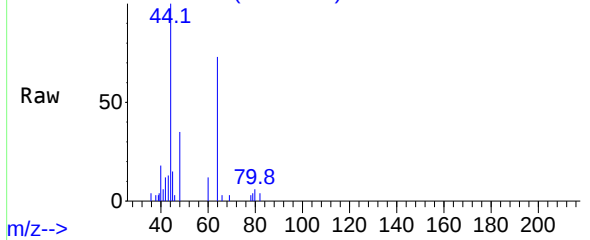
Abundance Scan 87 (1.618 min): VX028595.D\data.ms (-35)



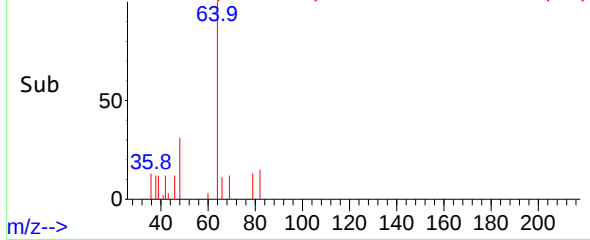
Abundance Scan 97 (1.678 min): VX028153.D\data.ms (-92)



Abundance Scan 95 (1.666 min): VX028595.D\data.ms



Abundance Scan 95 (1.666 min): VX028595.D\data.ms (-48)



#5

Bromomethane

Concen: Below Cal

RT: 1.618 min Scan# 81

Delta R.T. 0.019 min

Lab File: VX028595.D

Acq: 10 May 2022 15:12

Instrument :

MSVOA\_X

ClientSampleId :

PB144702ZHE#08

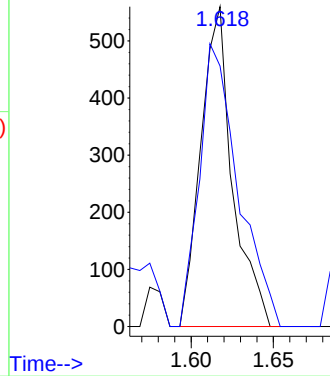
Tgt Ion: 94 Resp: 750

Ion Ratio Lower Upper

94 100

96 81.4 75.3 112.9

Abundance



#6

Chloroethane

Concen: Below Cal

RT: 1.666 min Scan# 95

Delta R.T. -0.012 min

Lab File: VX028595.D

Acq: 10 May 2022 15:12

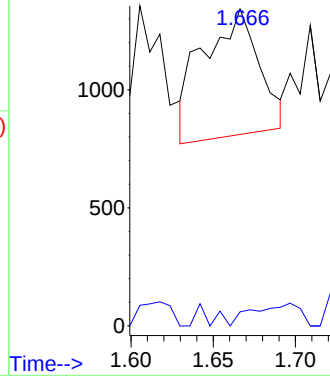
Tgt Ion: 64 Resp: 1270

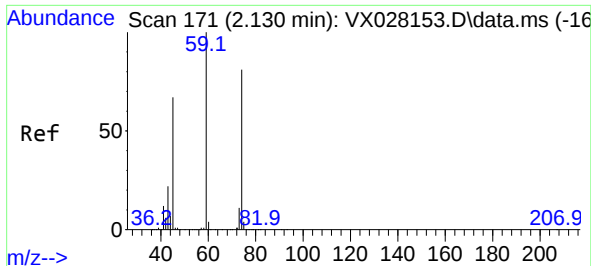
Ion Ratio Lower Upper

64 100

66 15.2 25.3 37.9#

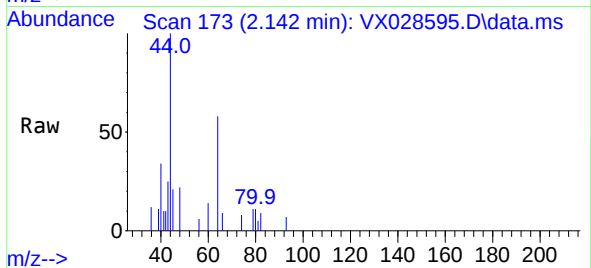
Abundance



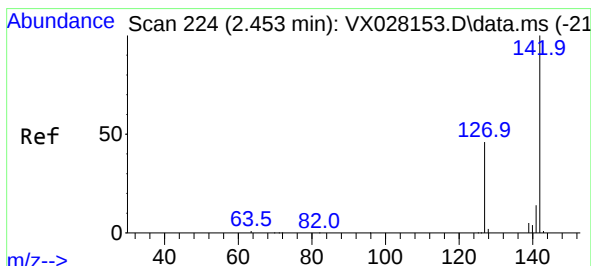
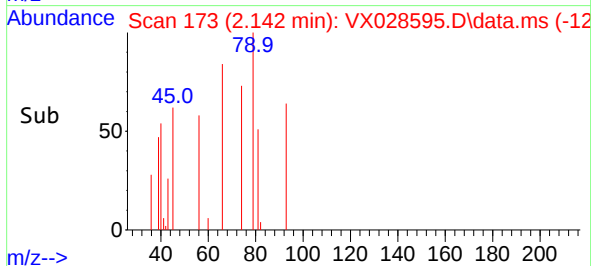
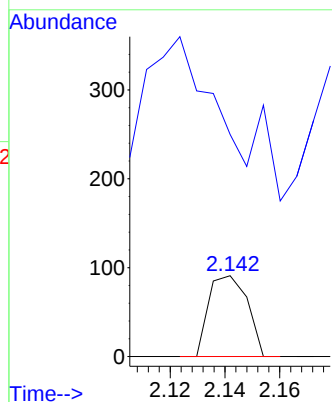


#8  
Diethyl Ether  
Concen: Below Cal  
RT: 2.142 min Scan# 11  
Delta R.T. 0.012 min  
Lab File: VX028595.D  
Acq: 10 May 2022 15:12

Instrument :  
MSVOA\_X  
ClientSampleId :  
PB144702ZHE#08

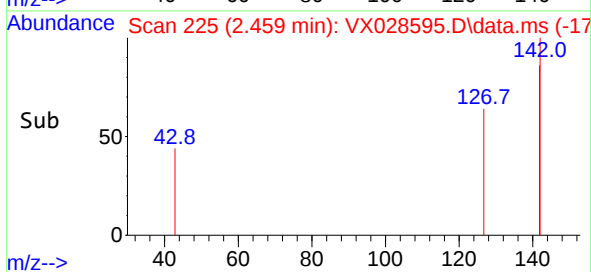
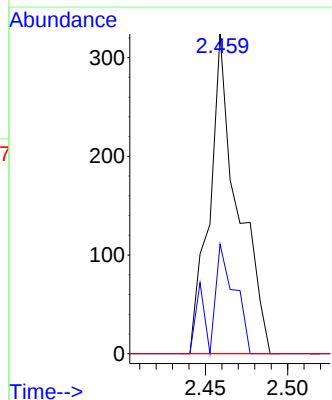
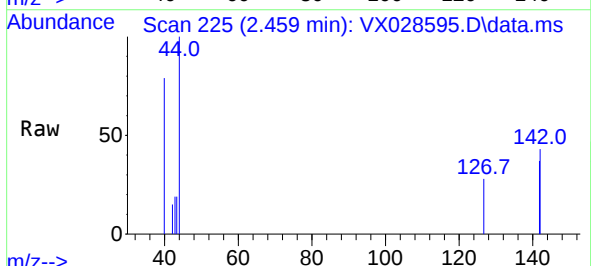


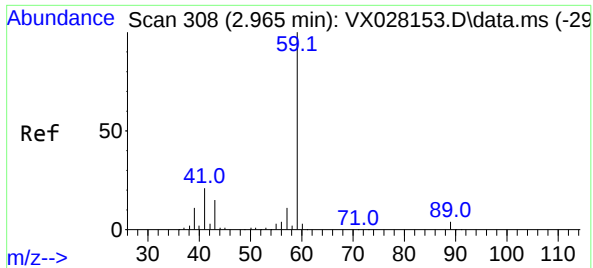
Tgt Ion: 74 Resp: 89  
Ion Ratio Lower Upper  
74 100  
45 395.5 42.0 126.0#



#10  
Methyl Iodide  
Concen: 5.312 ug/l  
RT: 2.459 min Scan# 225  
Delta R.T. 0.006 min  
Lab File: VX028595.D  
Acq: 10 May 2022 15:12

Tgt Ion: 142 Resp: 384  
Ion Ratio Lower Upper  
142 100  
127 29.7 33.9 50.9#  
141 0.0 11.4 17.2#

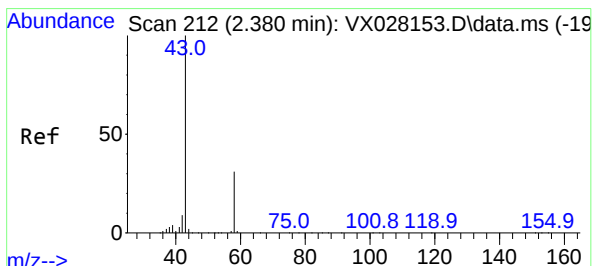
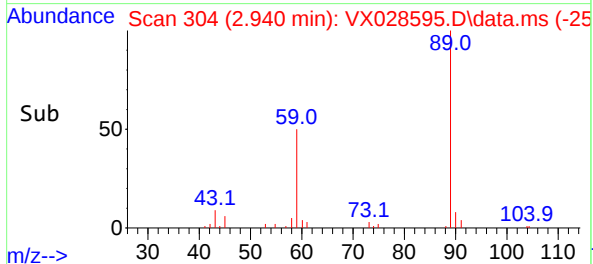
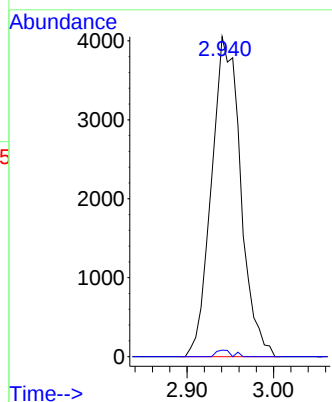
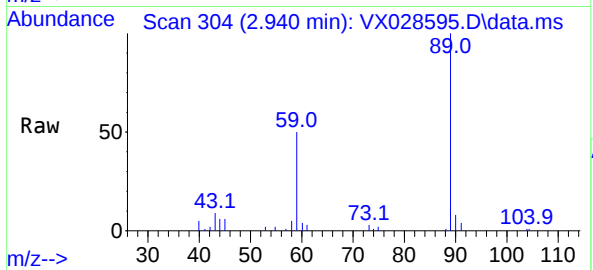




#11  
Tert butyl alcohol  
Concen: Below Cal  
RT: 2.940 min Scan# 308  
Delta R.T. -0.025 min  
Lab File: VX028595.D  
Acq: 10 May 2022 15:12

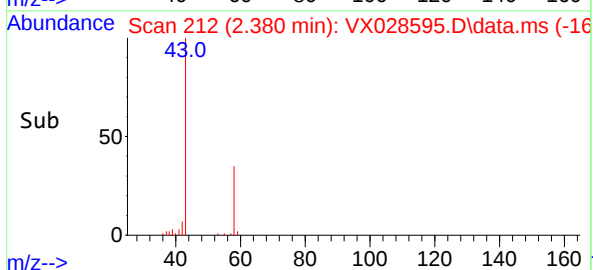
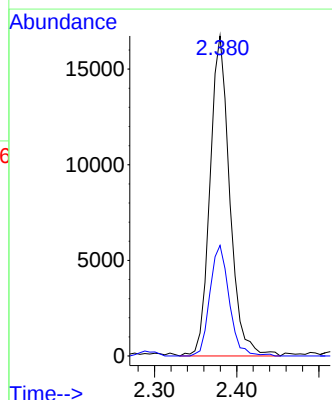
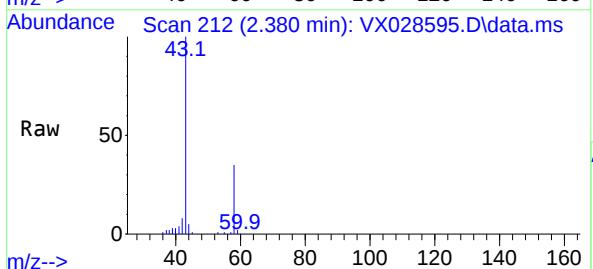
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB144702ZHE#08

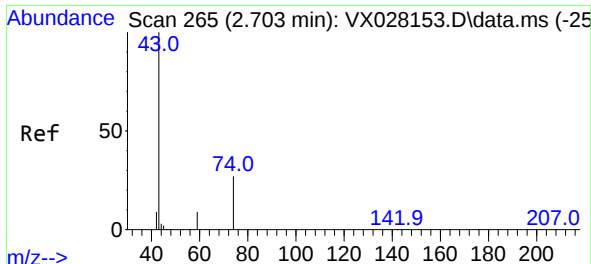
Tgt Ion: 59 Resp: 9460  
Ion Ratio Lower Upper  
59 100  
57 1.1 8.3 12.5#



#16  
Acetone  
Concen: 16.230 ug/l  
RT: 2.380 min Scan# 212  
Delta R.T. -0.000 min  
Lab File: VX028595.D  
Acq: 10 May 2022 15:12

Tgt Ion: 43 Resp: 27936  
Ion Ratio Lower Upper  
43 100  
58 34.6 28.8 43.2





#18

Methyl Acetate

Concen: 0.470 ug/l

RT: 2.709 min Scan# 2

Delta R.T. 0.006 min

Lab File: VX028595.D

Acq: 10 May 2022 15:12

Instrument :

MSVOA\_X

ClientSampleId :

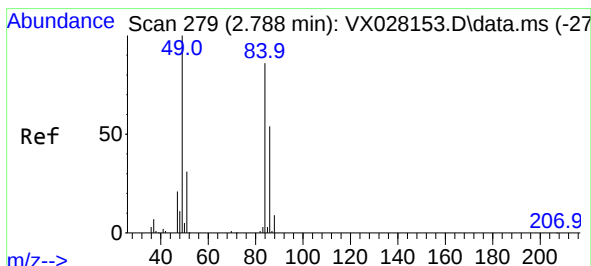
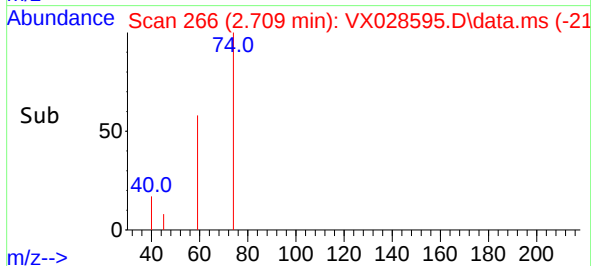
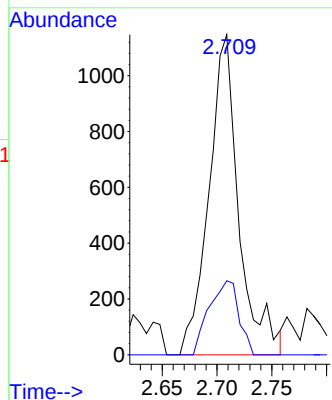
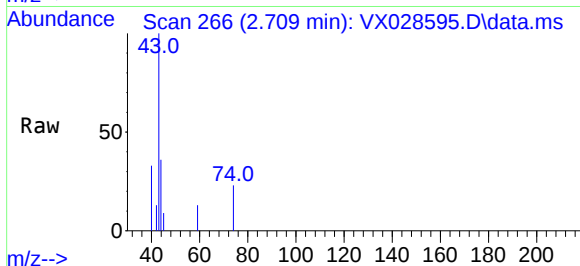
PB144702ZHE#08

Tgt Ion: 43 Resp: 2178

Ion Ratio Lower Upper

43 100

74 23.0 22.8 34.2



#20

Methylene Chloride

Concen: 4.412 ug/l

RT: 2.788 min Scan# 279

Delta R.T. 0.000 min

Lab File: VX028595.D

Acq: 10 May 2022 15:12

Tgt Ion: 84 Resp: 17075

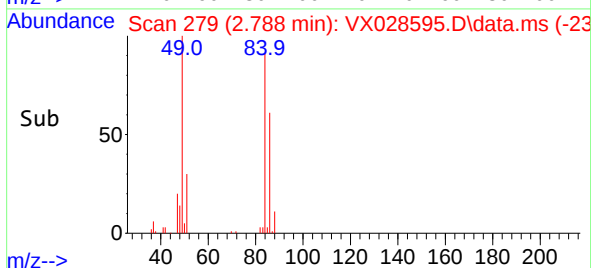
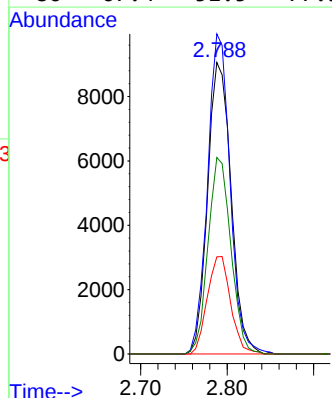
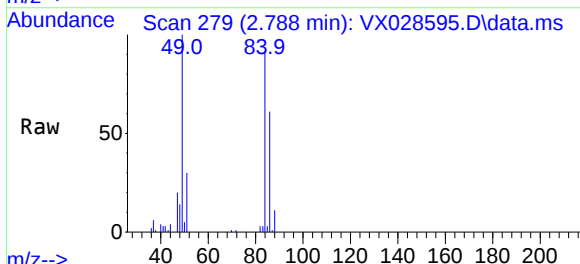
Ion Ratio Lower Upper

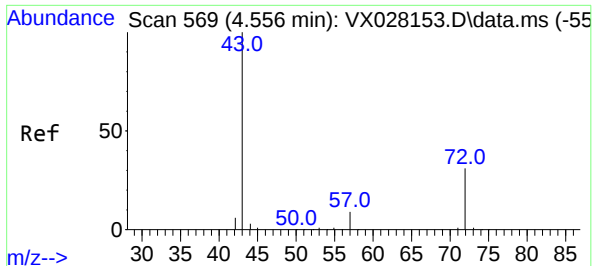
84 100

49 109.8 85.5 128.3

51 33.3 26.6 39.8

86 67.4 51.5 77.3





#25

2-Butanone

Concen: 1.897 ug/l

RT: 4.562 min Scan# 51

Delta R.T. 0.006 min

Lab File: VX028595.D

Acq: 10 May 2022 15:12

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MSVOA\_X

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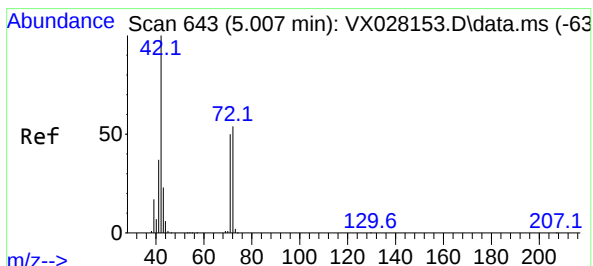
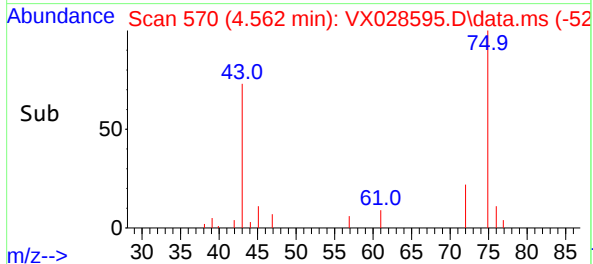
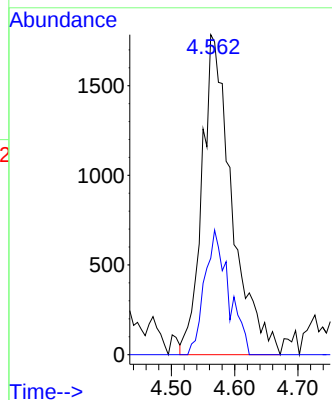
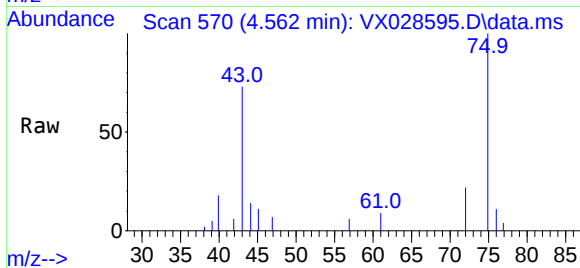
PB144702ZHE#08

Tgt Ion: 43 Resp: 5861

Ion Ratio Lower Upper

43 100

72 30.1 24.4 36.6



#29

Tetrahydrofuran

Concen: 0.463 ug/l

RT: 5.025 min Scan# 646

Delta R.T. 0.018 min

Lab File: VX028595.D

Acq: 10 May 2022 15:12

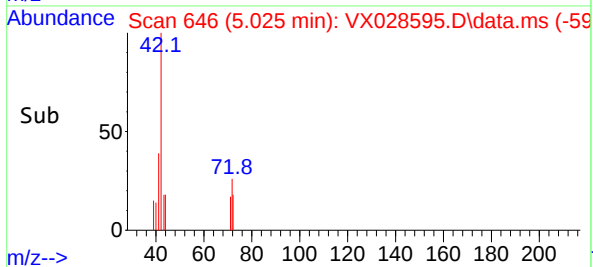
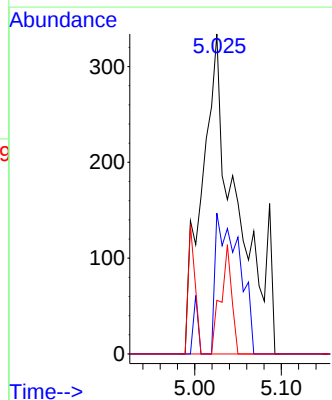
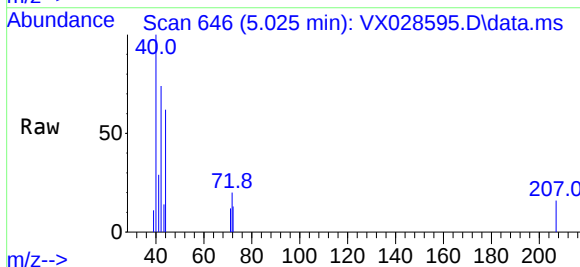
Tgt Ion: 42 Resp: 933

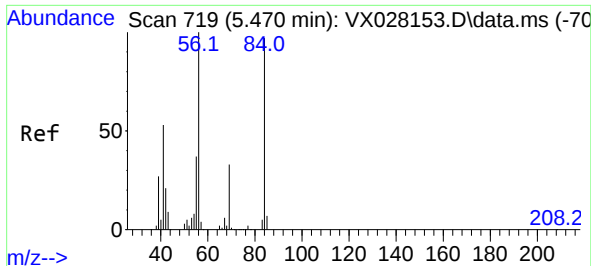
Ion Ratio Lower Upper

42 100

72 29.8 44.1 66.1#

71 10.8 40.5 60.7#

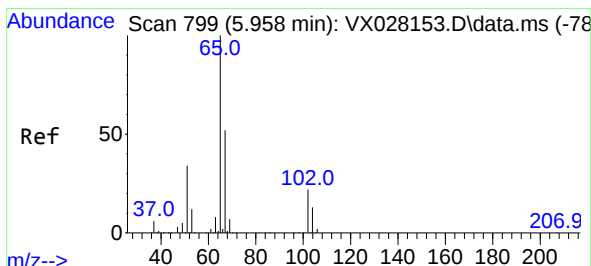
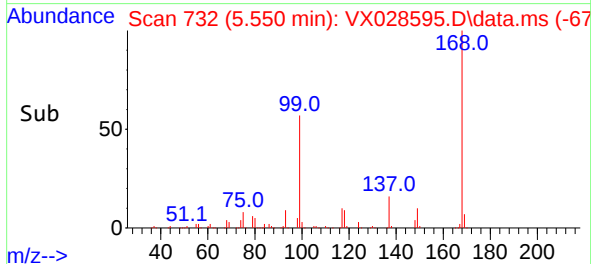
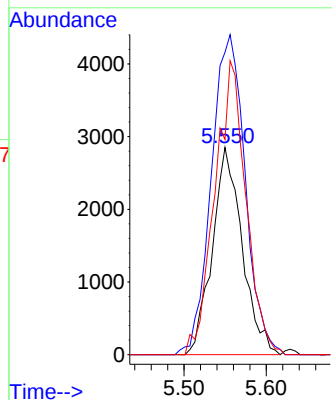
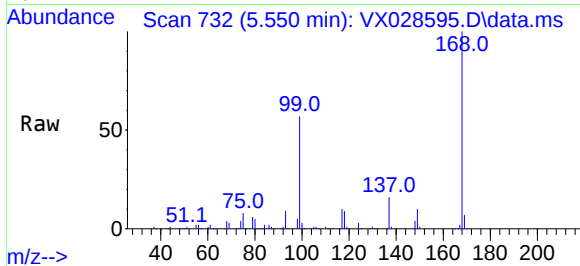




#31  
Cyclohexane  
Concen: 1.134 ug/l  
RT: 5.550 min Scan# 719  
Delta R.T. 0.080 min  
Lab File: VX028595.D  
Acq: 10 May 2022 15:12

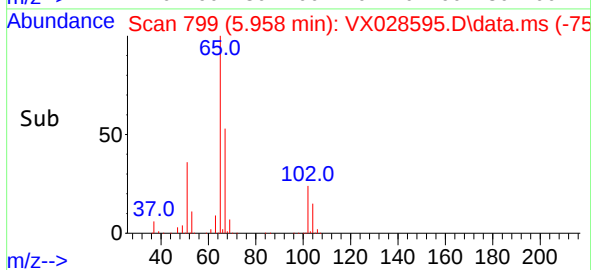
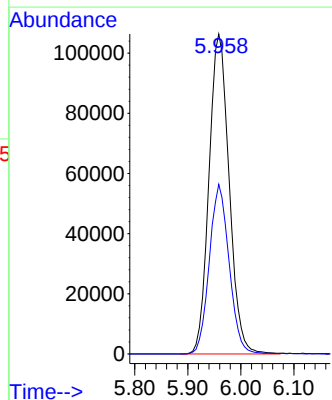
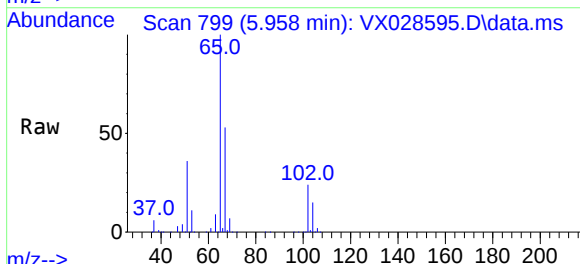
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB144702ZHE#08

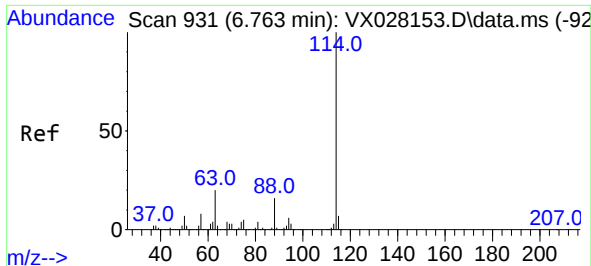
Tgt Ion: 56 Resp: 7208  
Ion Ratio Lower Upper  
56 100  
69 143.7 26.7 40.1#  
84 103.9 77.2 115.8



#33  
1,2-Dichloroethane-d4  
Concen: 53.839 ug/l  
RT: 5.958 min Scan# 799  
Delta R.T. 0.000 min  
Lab File: VX028595.D  
Acq: 10 May 2022 15:12

Tgt Ion: 65 Resp: 280828  
Ion Ratio Lower Upper  
65 100  
67 51.9 0.0 107.4

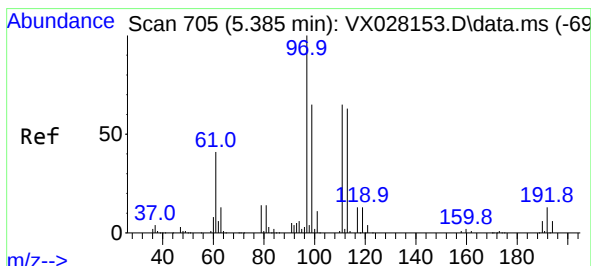
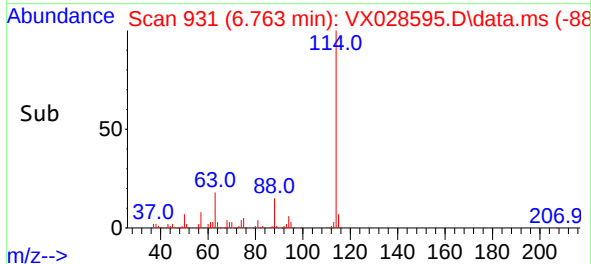
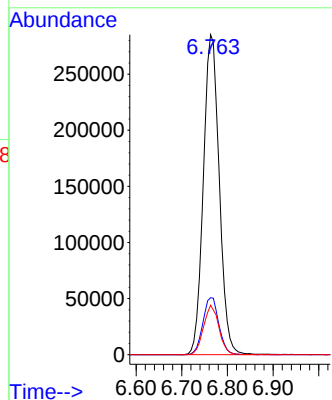
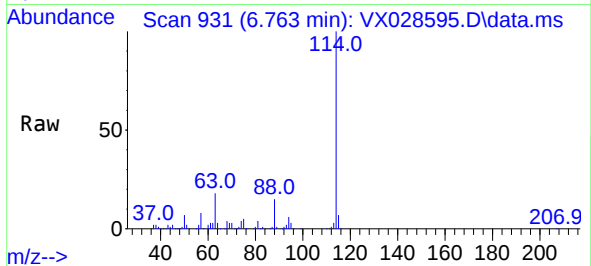




#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 6.763 min Scan# 91  
Delta R.T. -0.000 min  
Lab File: VX028595.D  
Acq: 10 May 2022 15:12

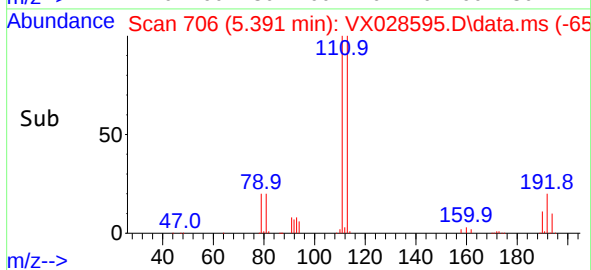
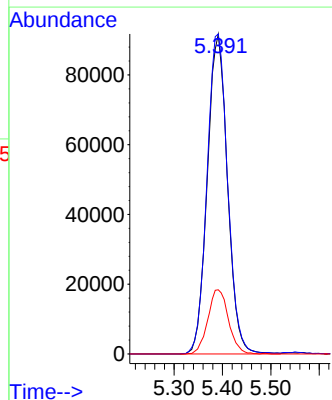
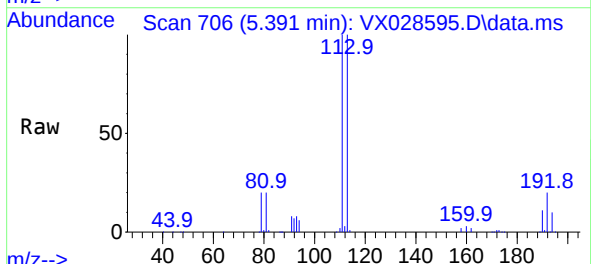
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB144702ZHE#08

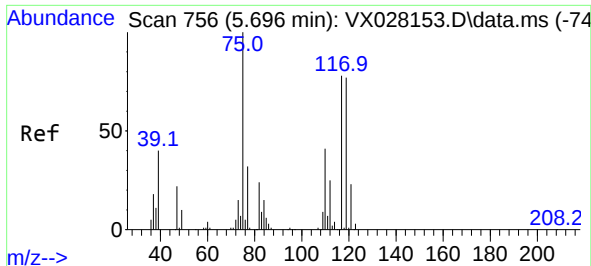
Tgt Ion:114 Resp: 690081  
Ion Ratio Lower Upper  
114 100  
63 17.8 0.0 36.8  
88 15.5 0.0 32.4



#35  
Dibromofluoromethane  
Concen: 54.888 ug/l  
RT: 5.391 min Scan# 706  
Delta R.T. 0.006 min  
Lab File: VX028595.D  
Acq: 10 May 2022 15:12

Tgt Ion:113 Resp: 265632  
Ion Ratio Lower Upper  
113 100  
111 101.9 82.8 124.2  
192 20.5 16.9 25.3

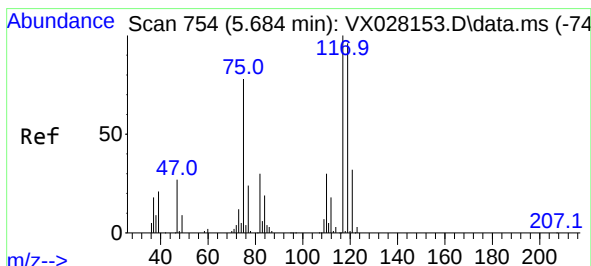
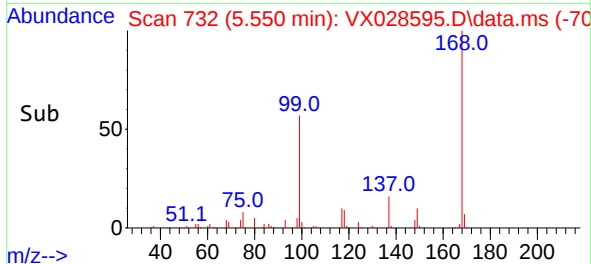
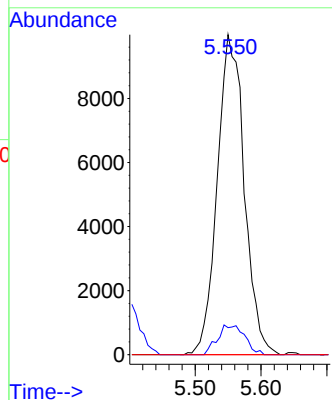
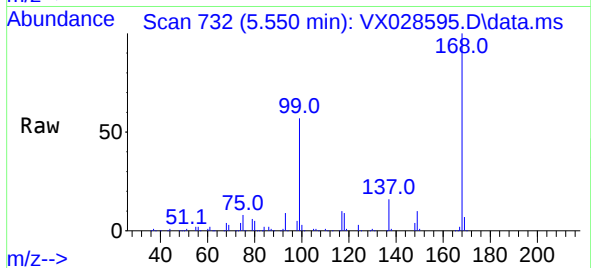




#36  
1,1-Dichloropropene  
Concen: 4.518 ug/l  
RT: 5.550 min Scan# 71  
Delta R.T. -0.146 min  
Lab File: VX028595.D  
Acq: 10 May 2022 15:12

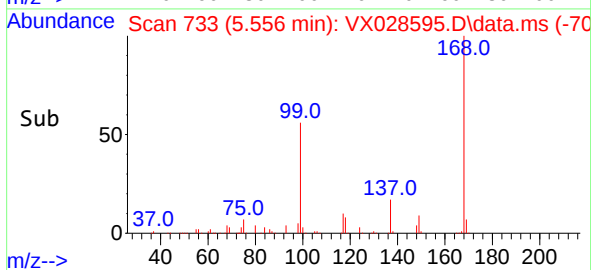
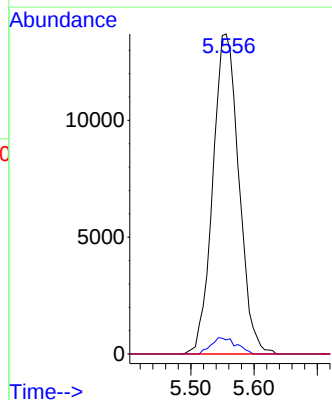
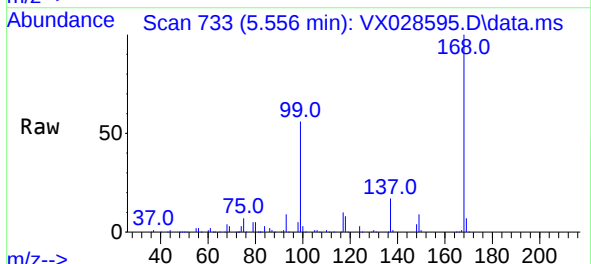
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB144702ZHE#08

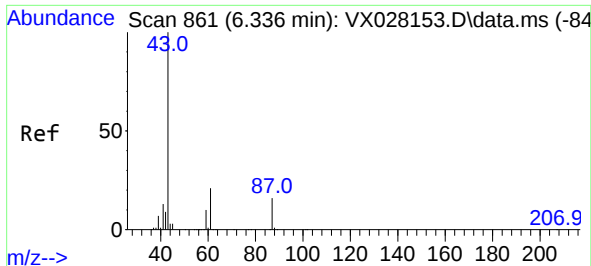
Tgt Ion: 75 Resp: 28523  
Ion Ratio Lower Upper  
75 100  
110 9.3 18.3 54.8#  
77 0.0 24.8 37.2#



#38  
Carbon Tetrachloride  
Concen: 5.501 ug/l  
RT: 5.556 min Scan# 733  
Delta R.T. -0.128 min  
Lab File: VX028595.D  
Acq: 10 May 2022 15:12

Tgt Ion: 117 Resp: 39199  
Ion Ratio Lower Upper  
117 100  
119 4.4 77.3 115.9#  
121 0.0 24.2 36.2#

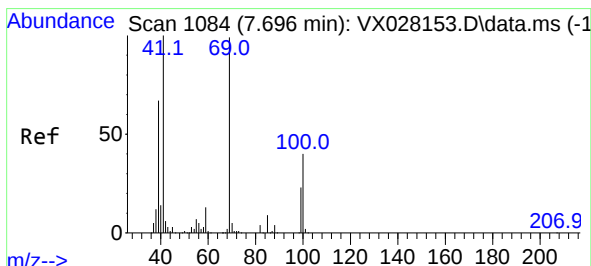
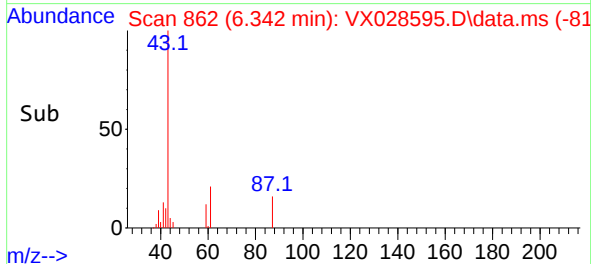
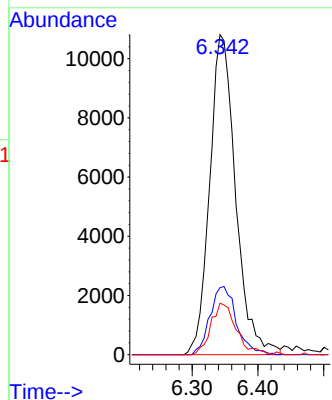
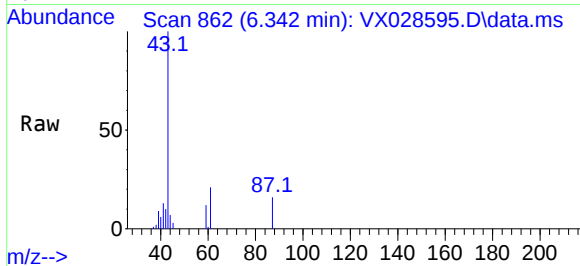




#43  
Isopropyl Acetate  
Concen: 2.849 ug/l  
RT: 6.342 min Scan# 80  
Delta R.T. 0.006 min  
Lab File: VX028595.D  
Acq: 10 May 2022 15:12

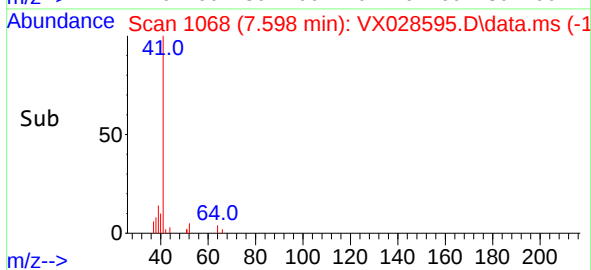
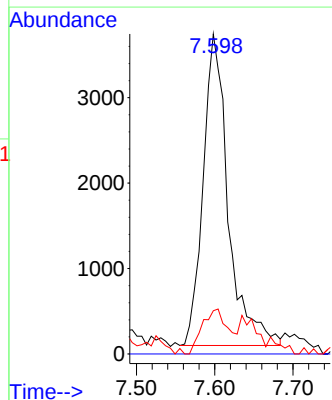
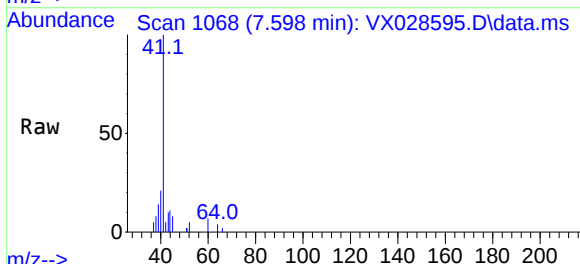
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB144702ZHE#08

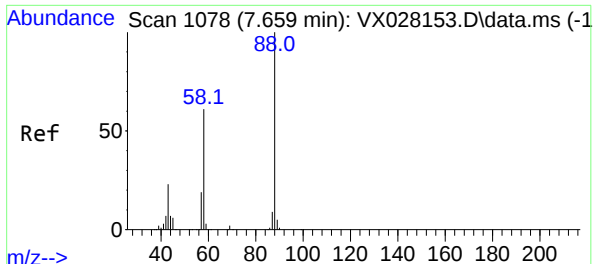
|             |             |
|-------------|-------------|
| Tgt Ion: 43 | Resp: 29698 |
| Ion Ratio   | Lower Upper |
| 43 100      |             |
| 61 21.6     | 18.5 27.7   |
| 87 15.7     | 13.0 19.6   |



#48  
Methyl methacrylate  
Concen: 1.693 ug/l  
RT: 7.598 min Scan# 1068  
Delta R.T. -0.098 min  
Lab File: VX028595.D  
Acq: 10 May 2022 15:12

|             |             |
|-------------|-------------|
| Tgt Ion: 41 | Resp: 8105  |
| Ion Ratio   | Lower Upper |
| 41 100      |             |
| 69 0.0      | 82.5 123.7# |
| 39 0.0      | 43.8 65.8#  |

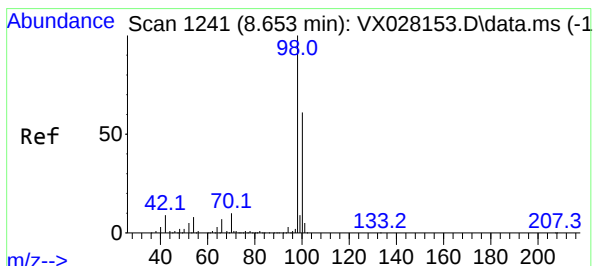
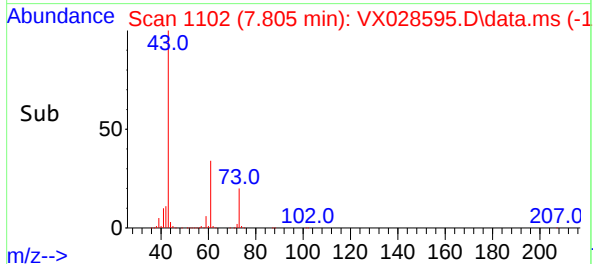
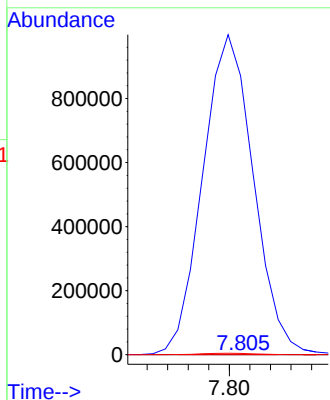
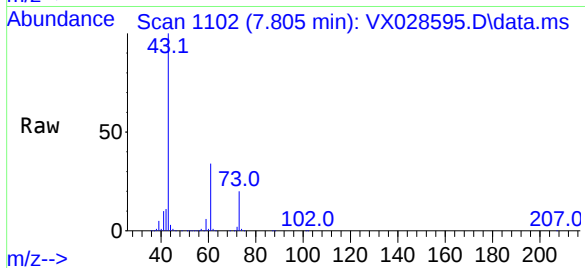




#49  
1,4-Dioxane  
Concen: 2.187 ug/l  
RT: 7.805 min Scan# 1102  
Delta R.T. 0.146 min  
Lab File: VX028595.D  
Acq: 10 May 2022 15:12

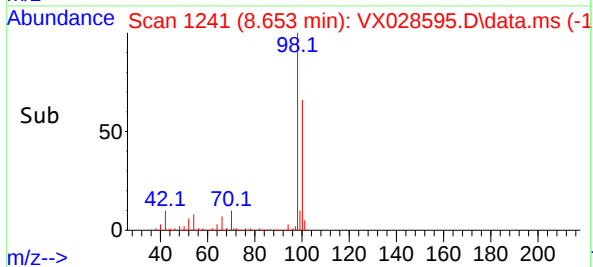
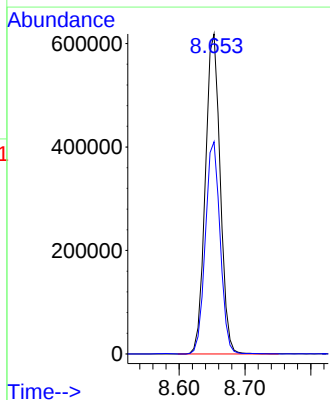
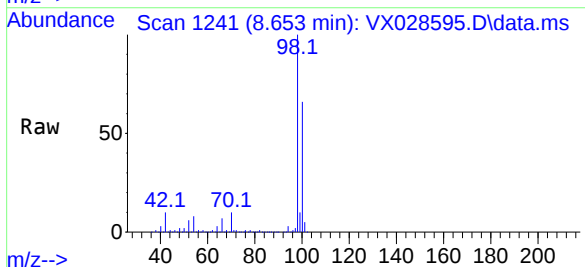
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB144702ZHE#08

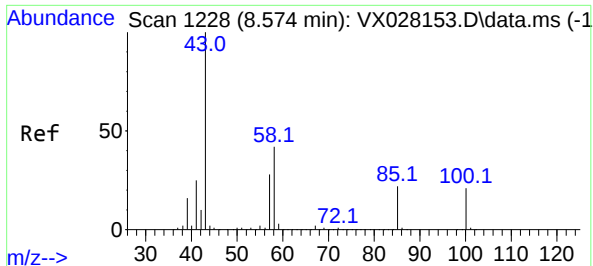
Tgt Ion: 88 Resp: 280  
Ion Ratio Lower Upper  
88 100  
43 616423.6 21.9 32.9#  
58 2892.1 53.7 80.5#



#50  
Toluene-d8  
Concen: 52.293 ug/l  
RT: 8.653 min Scan# 1241  
Delta R.T. -0.000 min  
Lab File: VX028595.D  
Acq: 10 May 2022 15:12

Tgt Ion: 98 Resp: 971993  
Ion Ratio Lower Upper  
98 100  
100 66.0 52.6 78.8

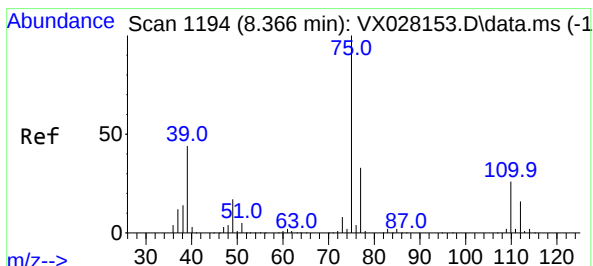
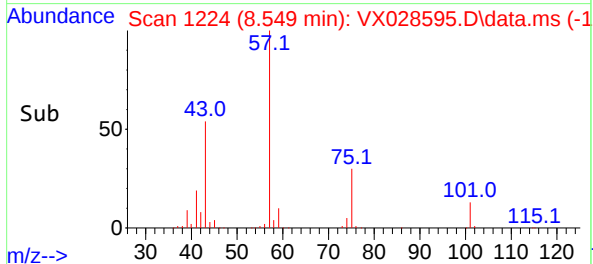
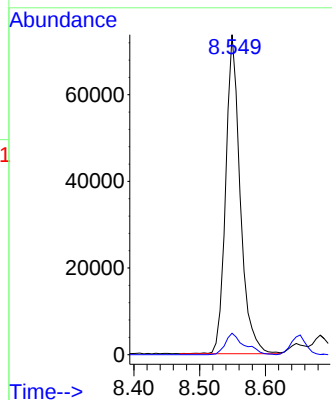
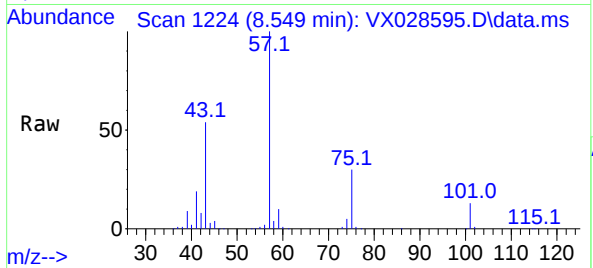




#51  
4-Methyl-2-Pentanone  
Concen: 16.914 ug/l  
RT: 8.549 min Scan# 11  
Delta R.T. -0.025 min  
Lab File: VX028595.D  
Acq: 10 May 2022 15:12

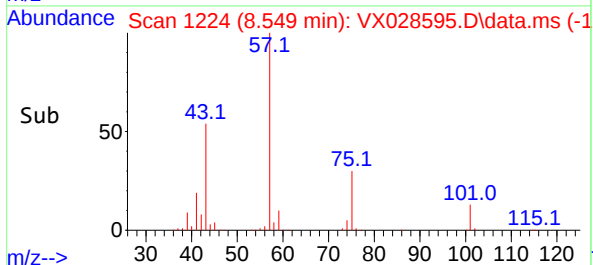
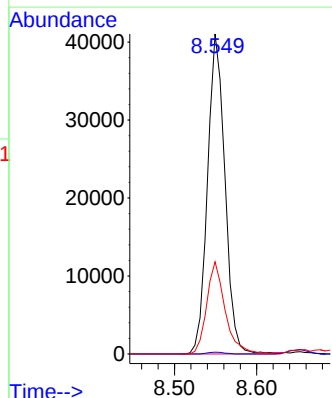
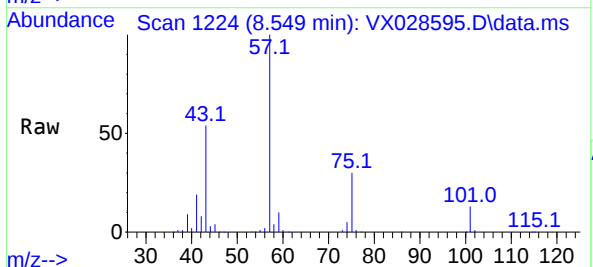
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB144702ZHE#08

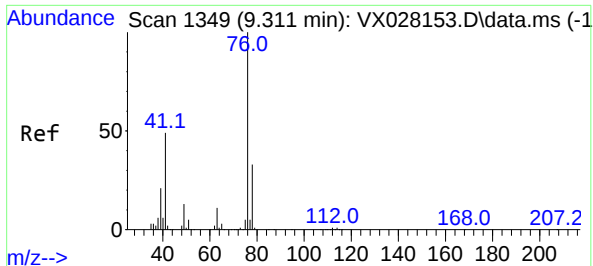
Tgt Ion: 43 Resp: 113151  
Ion Ratio Lower Upper  
43 100  
58 8.8 36.1 54.1#



#54  
cis-1,3-Dichloropropene  
Concen: 7.757 ug/l  
RT: 8.549 min Scan# 1224  
Delta R.T. 0.183 min  
Lab File: VX028595.D  
Acq: 10 May 2022 15:12

Tgt Ion: 75 Resp: 60373  
Ion Ratio Lower Upper  
75 100  
77 0.5 24.8 37.2#  
39 28.8 29.6 44.4#

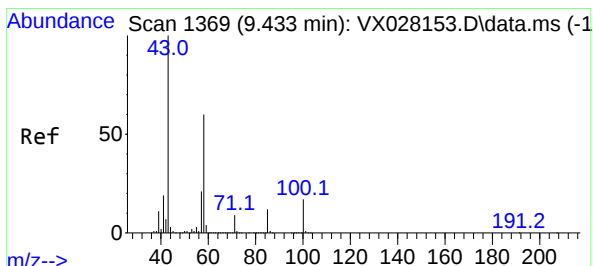
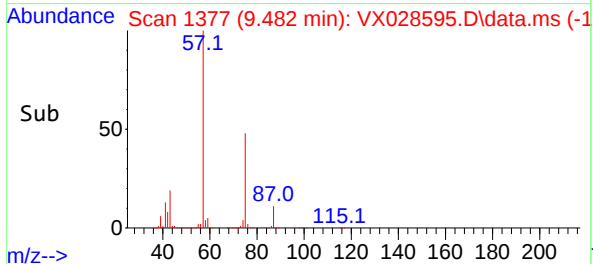
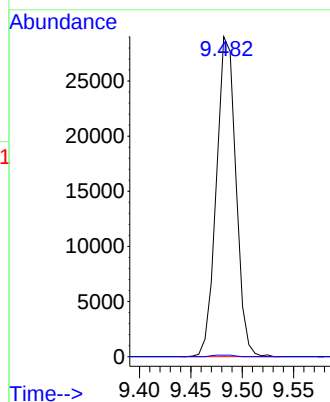
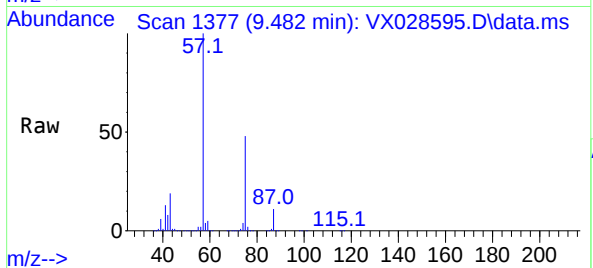




#57  
1,3-Dichloropropane  
Concen: 4.550 ug/l  
RT: 9.482 min Scan# 1377  
Delta R.T. 0.171 min  
Lab File: VX028595.D  
Acq: 10 May 2022 15:12

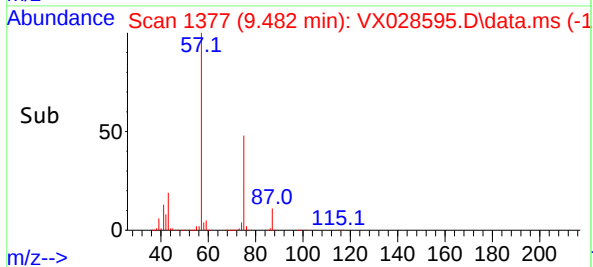
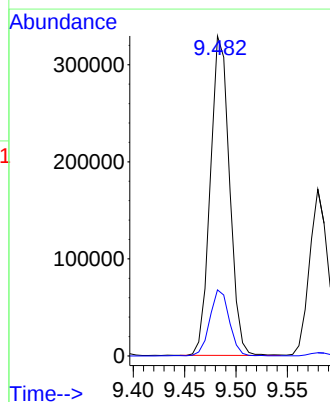
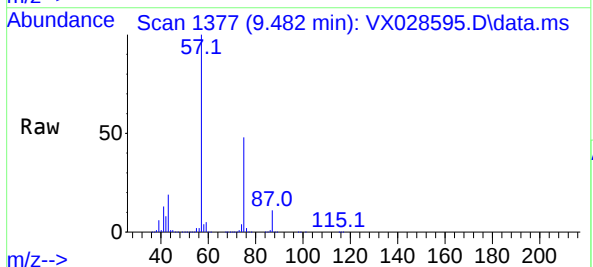
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB144702ZHE#08

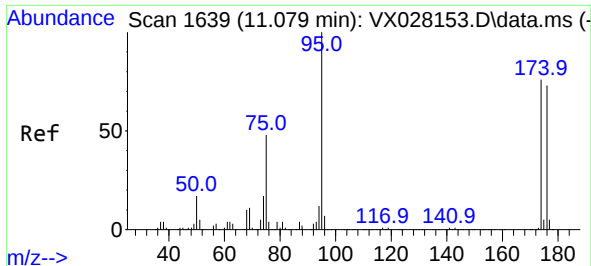
Tgt Ion: 76 Resp: 38305  
Ion Ratio Lower Upper  
76 100  
78 0.5 25.8 38.8#



#59  
2-Hexanone  
Concen: 82.282 ug/l  
RT: 9.482 min Scan# 1377  
Delta R.T. 0.049 min  
Lab File: VX028595.D  
Acq: 10 May 2022 15:12

Tgt Ion: 43 Resp: 426384  
Ion Ratio Lower Upper  
43 100  
58 21.2 31.9 95.7#

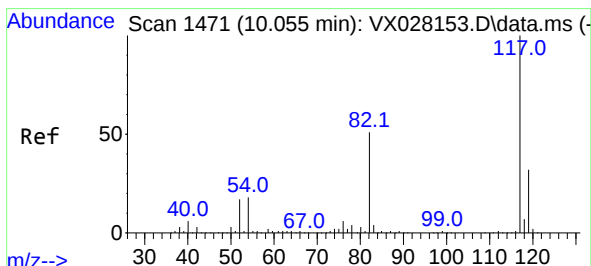
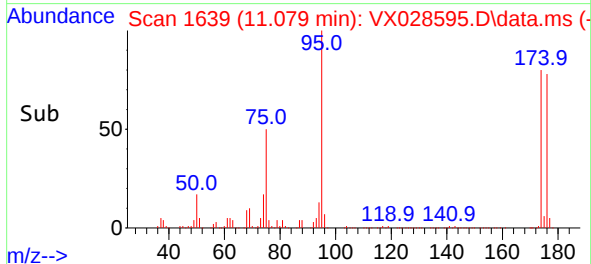
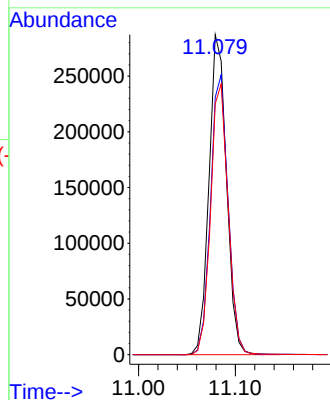
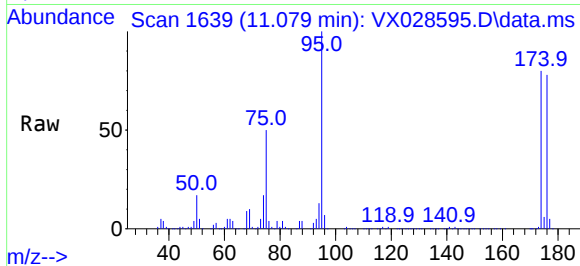




#62  
4-Bromofluorobenzene  
Concen: 50.885 ug/l  
RT: 11.079 min Scan# 1  
Delta R.T. 0.000 min  
Lab File: VX028595.D  
Acq: 10 May 2022 15:12

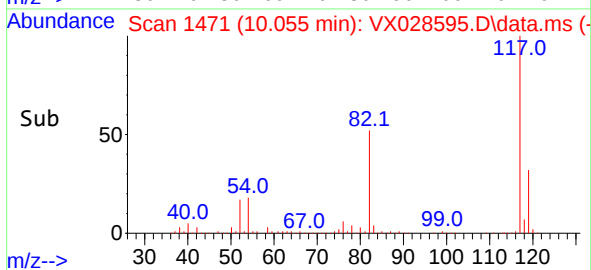
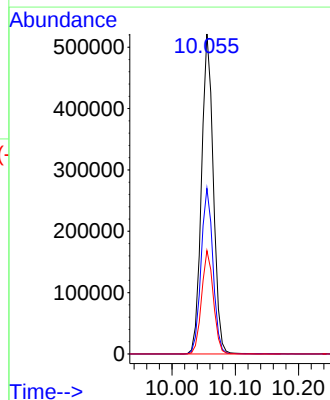
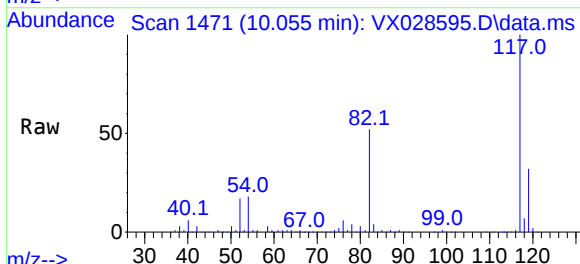
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB144702ZHE#08

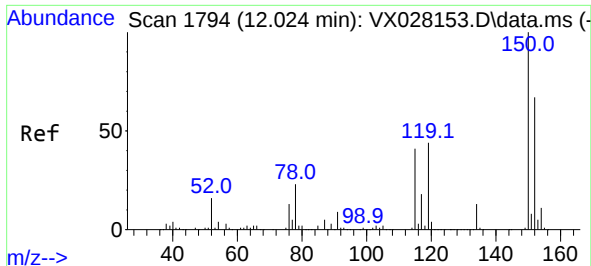
Tgt Ion: 95 Resp: 361646  
Ion Ratio Lower Upper  
95 100  
174 87.6 0.0 163.0  
176 84.9 0.0 155.0



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.055 min Scan# 1471  
Delta R.T. 0.000 min  
Lab File: VX028595.D  
Acq: 10 May 2022 15:12

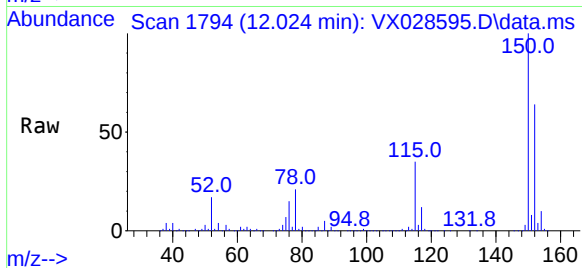
Tgt Ion: 117 Resp: 678711  
Ion Ratio Lower Upper  
117 100  
82 51.8 41.8 62.8  
119 32.3 24.8 37.2



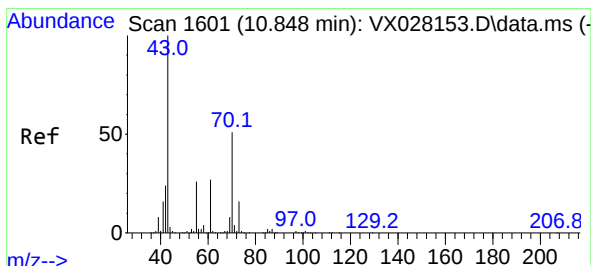
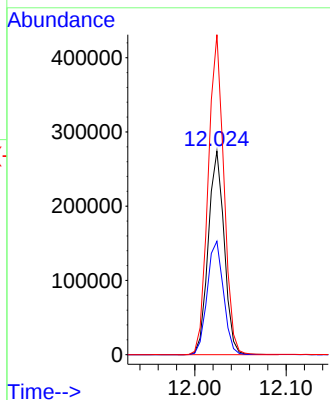
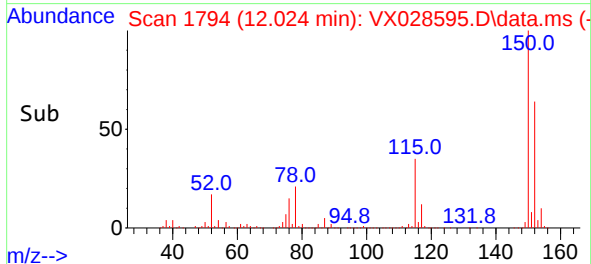


#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.024 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VX028595.D  
Acq: 10 May 2022 15:12

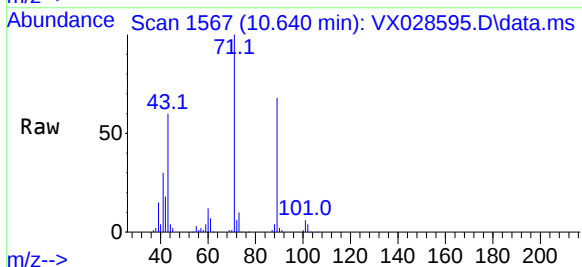
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB144702ZHE#08



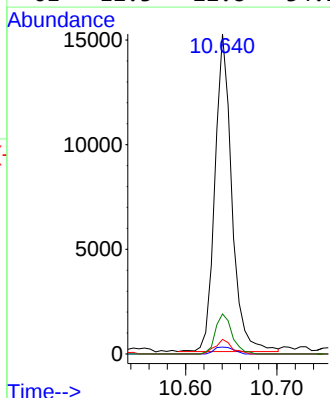
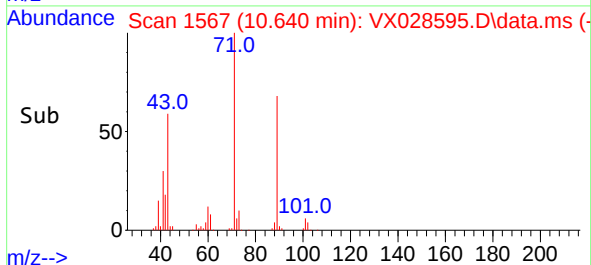
Tgt Ion:152 Resp: 331882  
Ion Ratio Lower Upper  
152 100  
115 57.2 37.5 112.7  
150 155.5 0.0 338.2

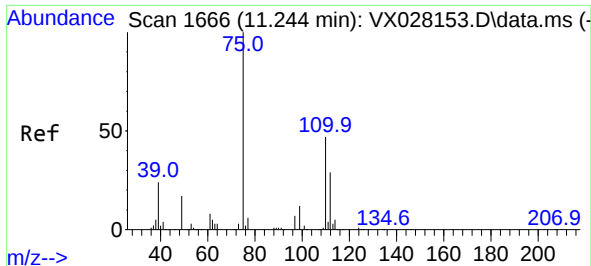


#74  
N-ethyl acetate  
Concen: 2.478 ug/l  
RT: 10.640 min Scan# 1567  
Delta R.T. -0.208 min  
Lab File: VX028595.D  
Acq: 10 May 2022 15:12



Tgt Ion: 43 Resp: 19534  
Ion Ratio Lower Upper  
43 100  
70 2.5 42.5 63.7#  
55 4.4 23.1 34.7#  
61 12.3 22.8 34.2#

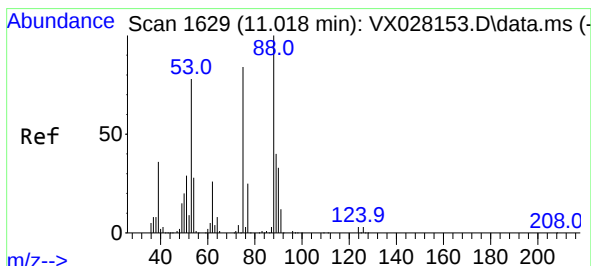
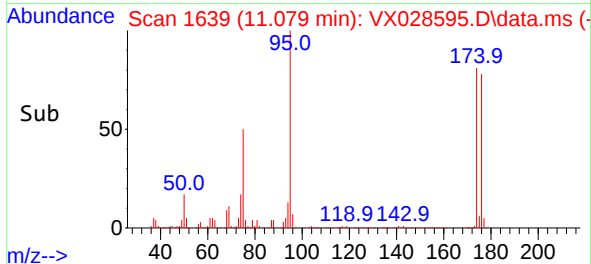
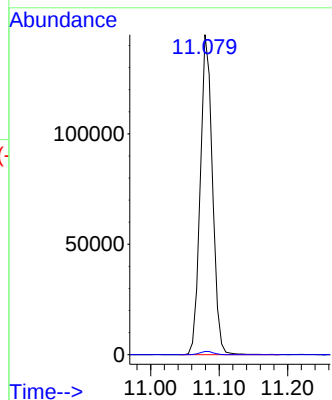
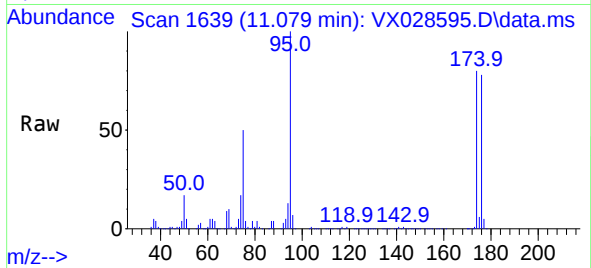




#76  
1,2,3-Trichloropropane  
Concen: 27.505 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. -0.165 min  
Lab File: VX028595.D  
Acq: 10 May 2022 15:12

Instrument :  
MSVOA\_X  
ClientSampleId :  
PB144702ZHE#08

Tgt Ion: 75 Resp: 179655  
Ion Ratio Lower Upper  
75 100  
77 1.1 19.4 58.2#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 81.738 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. 0.061 min  
Lab File: VX028595.D  
Acq: 10 May 2022 15:12

Tgt Ion: 75 Resp: 179655  
Ion Ratio Lower Upper  
75 100  
53 0.0 69.0 103.4#  
89 0.0 37.0 55.6#

