

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX080724\  
 Data File : VX042896.D  
 Acq On : 07 Aug 2024 03:16  
 Operator : JC/MD  
 Sample : P3448-14RE  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 45 Sample Multiplier: 1

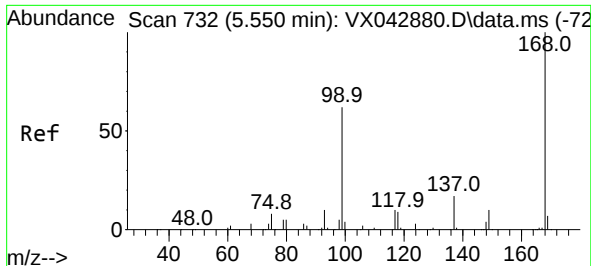
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 TP7

Quant Time: Aug 07 06:33:46 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X080724W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Aug 07 02:55:22 2024  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon  | Response | Conc     | Units      | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|------------|----------|
| Internal Standards            |        |       |          |          |            |          |
| 1) Pentafluorobenzene         | 5.550  | 168   | 146751   | 50.000   | ug/l       | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.763  | 114   | 283068   | 50.000   | ug/l       | 0.00     |
| 63) Chlorobenzene-d5          | 10.055 | 117   | 279166   | 50.000   | ug/l       | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.024 | 152   | 113380   | 50.000   | ug/l       | 0.00     |
| System Monitoring Compounds   |        |       |          |          |            |          |
| 33) 1,2-Dichloroethane-d4     | 5.958  | 65    | 113589   | 56.383   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 78 - 117 | Recovery | = 112.760% |          |
| 35) Dibromofluoromethane      | 5.385  | 113   | 96785    | 52.293   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 75 - 124 | Recovery | = 104.580% |          |
| 50) Toluene-d8                | 8.647  | 98    | 355347   | 54.082   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 92 - 112 | Recovery | = 108.160% |          |
| 62) 4-Bromofluorobenzene      | 11.079 | 95    | 126909   | 53.750   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 83 - 123 | Recovery | = 107.500% |          |
| Target Compounds              |        |       |          |          |            | Qvalue   |
| 5) Bromomethane               | 1.599  | 94    | 780      | 0.788    | ug/l #     | 55       |
| 11) Tert butyl alcohol        | 2.940  | 59    | 4460     | 11.130   | ug/l #     | 78       |
| 13) Acrolein                  | 2.239  | 56    | 128      | 0.324    | ug/l #     | 40       |
| 16) Acetone                   | 2.392  | 43    | 80546    | 92.178   | ug/l       | 95       |
| 18) Methyl Acetate            | 2.715  | 43    | 7058     | 2.547    | ug/l       | 96       |
| 20) Methylene Chloride        | 2.782  | 84    | 13037    | 6.351    | ug/l       | 94       |
| 25) 2-Butanone                | 4.580  | 43    | 9855     | 7.182    | ug/l       | 100      |
| 29) Tetrahydrofuran           | 5.038  | 42    | 573      | 0.618    | ug/l       | 97       |
| 31) Cyclohexane               | 5.550  | 56    | 3246     | 1.288    | ug/l #     | 3        |
| 36) 1,1-Dichloropropene       | 5.556  | 75    | 11701    | 4.663    | ug/l #     | 47       |
| 37) Ethyl Acetate             | 4.745  | 43    | 2726     | 0.868    | ug/l #     | 85       |
| 38) Carbon Tetrachloride      | 5.556  | 117   | 15581    | 5.500    | ug/l #     | 15       |
| 43) Isopropyl Acetate         | 6.342  | 43    | 159778   | 34.411   | ug/l       | 97       |
| 48) Methyl methacrylate       | 7.799  | 41    | 140722   | 63.204   | ug/l #     | 47       |
| 49) 1,4-Dioxane               | 7.659  | 88    | 48       | 0.971    | ug/l #     | 1        |
| 51) 4-Methyl-2-Pentanone      | 8.549  | 43    | 120647   | 38.790   | ug/l #     | 52       |
| 54) cis-1,3-Dichloropropene   | 8.549  | 75    | 55382    | 20.126   | ug/l #     | 57       |
| 57) 1,3-Dichloropropane       | 9.482  | 76    | 6840     | 2.174    | ug/l #     | 42       |
| 59) 2-Hexanone                | 9.482  | 43    | 96159    | 39.899   | ug/l #     | 54       |
| 74) N-amyl acetate            | 10.817 | 43    | 760      | 0.206    | ug/l #     | 47       |
| 76) 1,2,3-Trichloropropane    | 11.079 | 75    | 65702    | 25.767   | ug/l #     | 39       |
| 81) trans-1,4-Dichloro-2-b... | 11.079 | 75    | 65702    | 83.781   | ug/l #     | 5        |

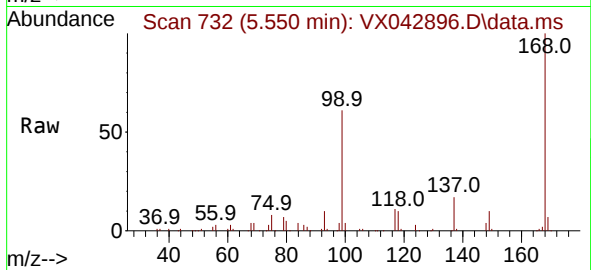
(#) = qualifier out of range (m) = manual integration (+) = signals summed



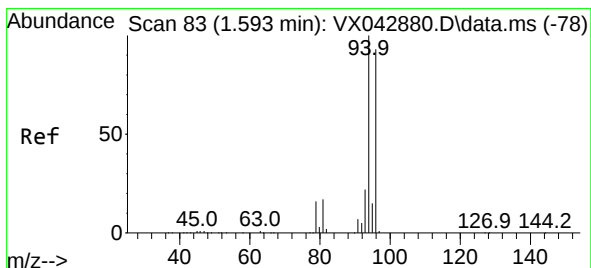
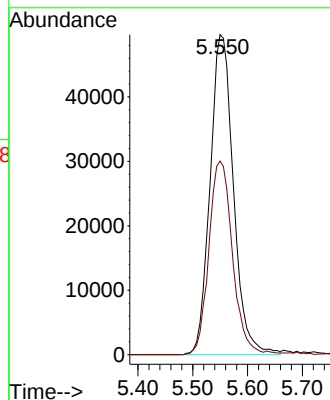
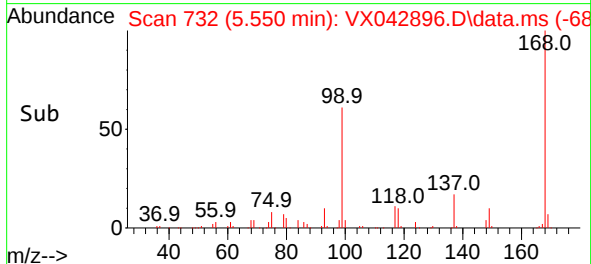


#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.550 min Scan# 71  
Delta R.T. -0.000 min  
Lab File: VX042896.D  
Acq: 07 Aug 2024 03:16

Instrument :  
MSVOA\_X  
ClientSampleId :  
TP7

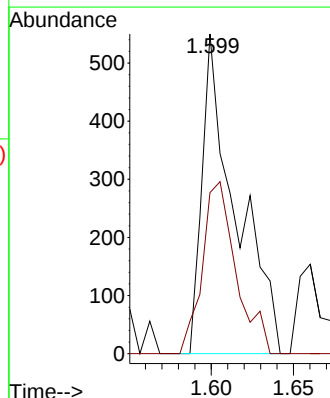
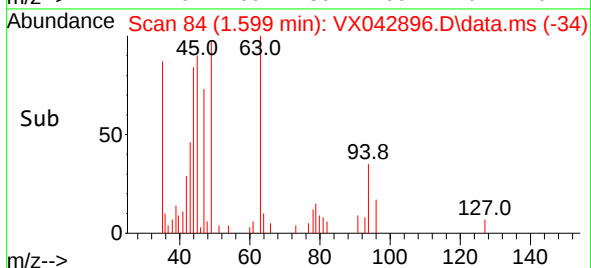
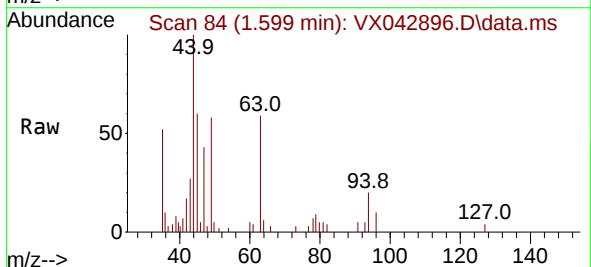


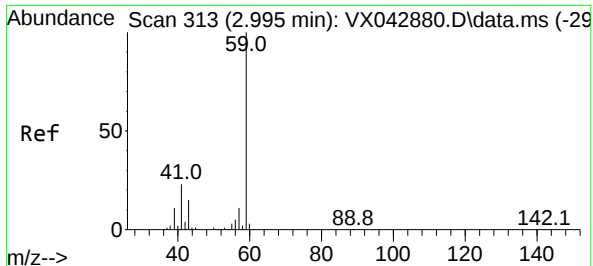
Tgt Ion:168 Resp: 146751  
Ion Ratio Lower Upper  
168 100  
99 60.5 56.6 85.0



#5  
Bromomethane  
Concen: 0.788 ug/l  
RT: 1.599 min Scan# 84  
Delta R.T. 0.006 min  
Lab File: VX042896.D  
Acq: 07 Aug 2024 03:16

Tgt Ion: 94 Resp: 780  
Ion Ratio Lower Upper  
94 100  
96 50.4 74.6 111.8#





#11

Tert butyl alcohol

Concen: 11.130 ug/l

RT: 2.940 min Scan# 304

Delta R.T. -0.055 min

Lab File: VX042896.D

Acq: 07 Aug 2024 03:16

Instrument :

MSVOA\_X

ClientSampleId :

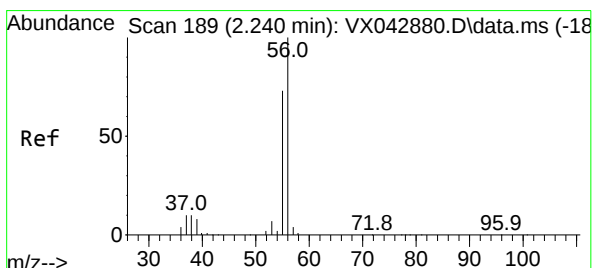
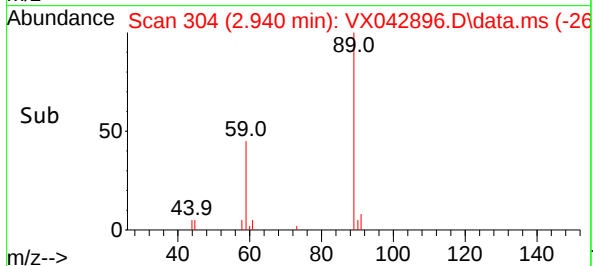
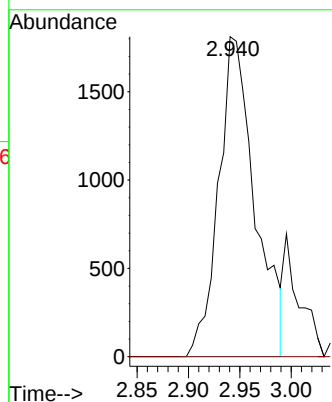
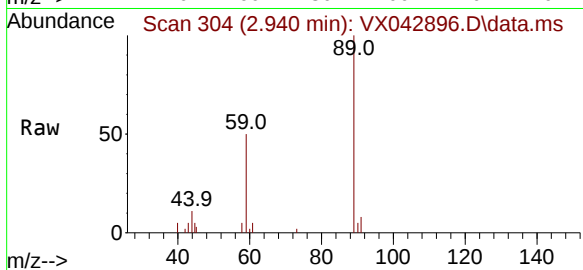
TP7

Tgt Ion: 59 Resp: 4460

Ion Ratio Lower Upper

59 100

57 0.0 6.0 9.0#



#13

Acrolein

Concen: 0.324 ug/l

RT: 2.239 min Scan# 189

Delta R.T. -0.000 min

Lab File: VX042896.D

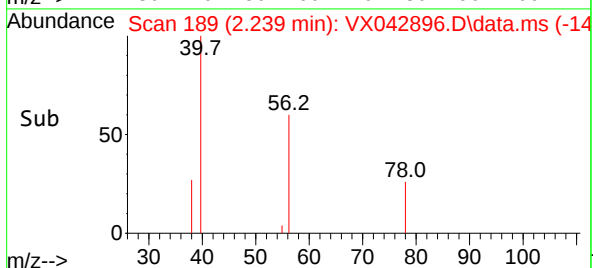
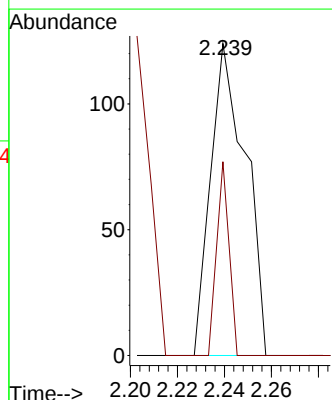
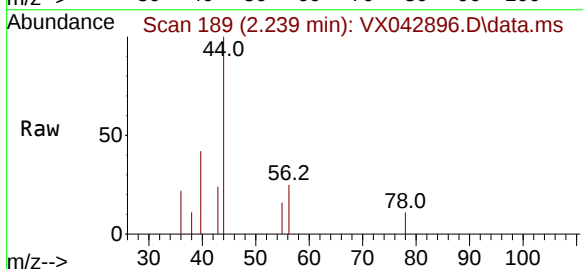
Acq: 07 Aug 2024 03:16

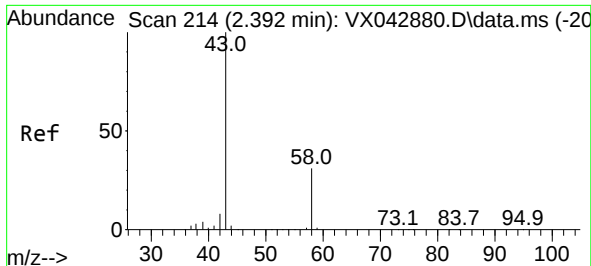
Tgt Ion: 56 Resp: 128

Ion Ratio Lower Upper

56 100

55 21.9 57.1 85.7#

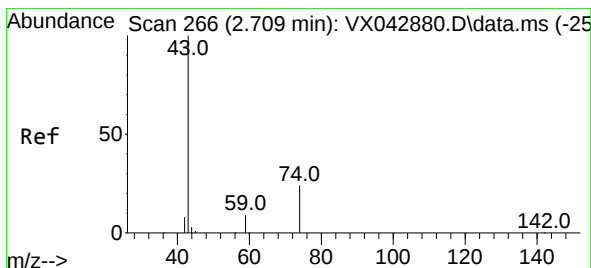
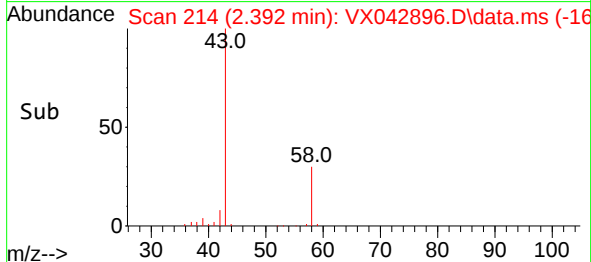
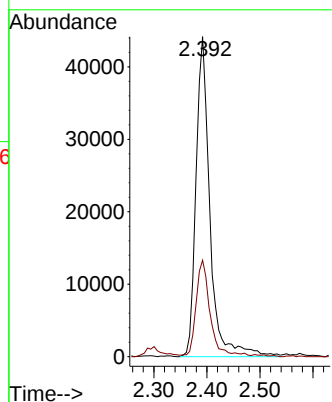
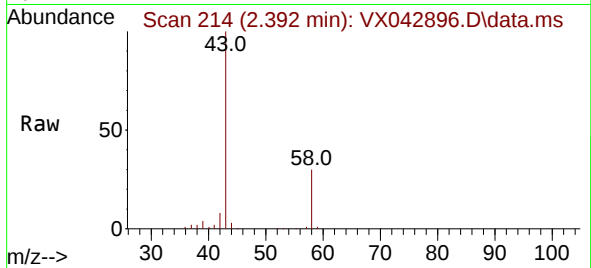




#16  
Acetone  
Concen: 92.178 ug/l  
RT: 2.392 min Scan# 214  
Delta R.T. -0.000 min  
Lab File: VX042896.D  
Acq: 07 Aug 2024 03:16

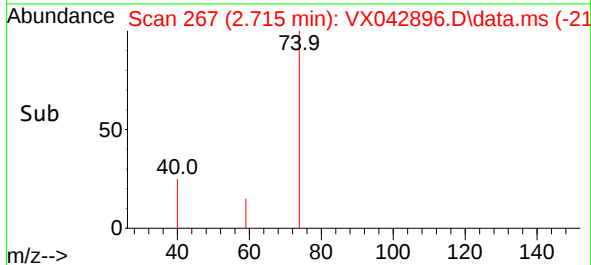
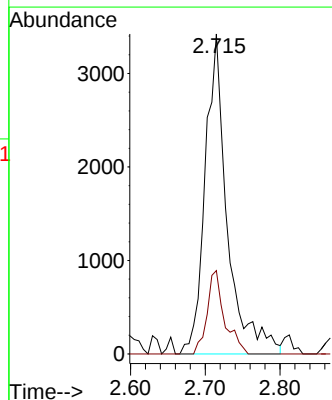
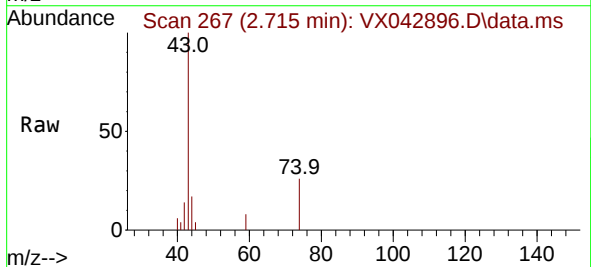
Instrument :  
MSVOA\_X  
ClientSampleId :  
TP7

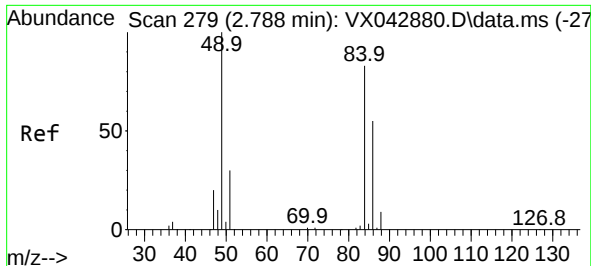
Tgt Ion: 43 Resp: 80546  
Ion Ratio Lower Upper  
43 100  
58 30.2 21.9 32.9



#18  
Methyl Acetate  
Concen: 2.547 ug/l  
RT: 2.715 min Scan# 267  
Delta R.T. 0.006 min  
Lab File: VX042896.D  
Acq: 07 Aug 2024 03:16

Tgt Ion: 43 Resp: 7058  
Ion Ratio Lower Upper  
43 100  
74 20.4 17.8 26.8





#20

Methylene Chloride

Concen: 6.351 ug/l

RT: 2.782 min Scan# 21

Delta R.T. -0.006 min

Lab File: VX042896.D

Acq: 07 Aug 2024 03:16

Instrument :

MSVOA\_X

ClientSampleId :

TP7

Tgt Ion: 84 Resp: 13037

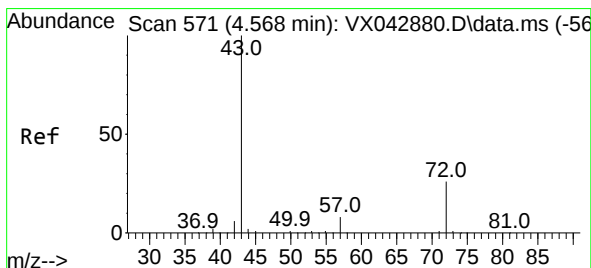
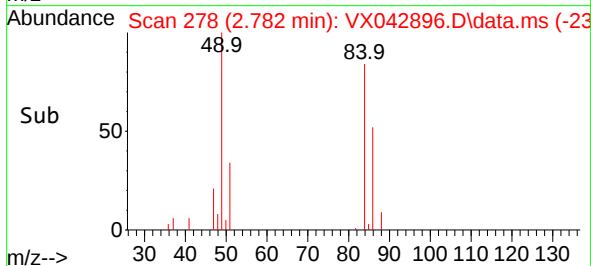
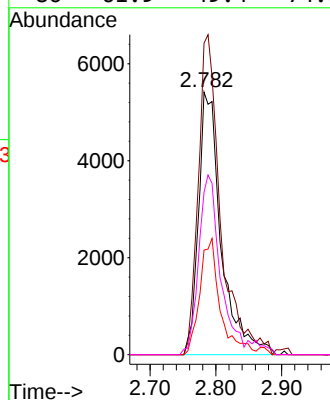
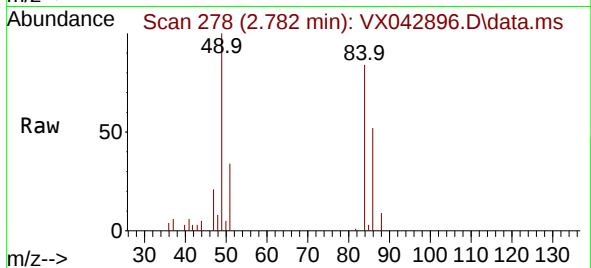
Ion Ratio Lower Upper

84 100

49 118.6 103.6 155.4

51 39.8 33.8 50.6

86 61.9 49.4 74.0



#25

2-Butanone

Concen: 7.182 ug/l

RT: 4.580 min Scan# 573

Delta R.T. 0.012 min

Lab File: VX042896.D

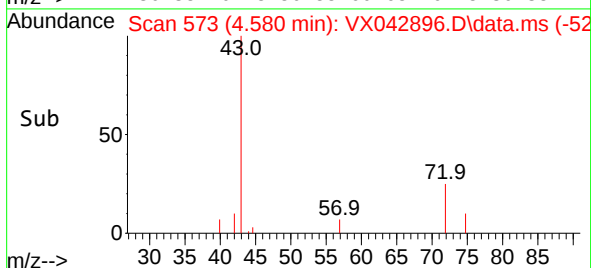
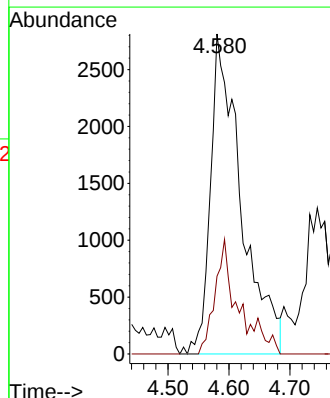
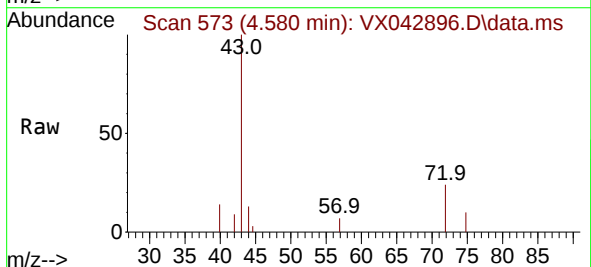
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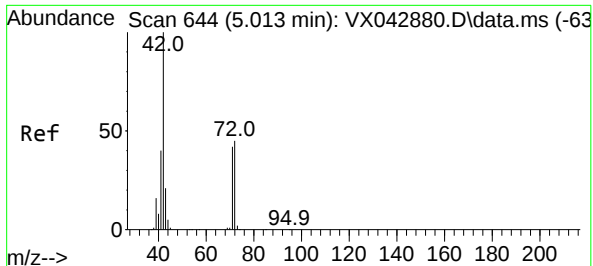
Tgt Ion: 43 Resp: 9855

Ion Ratio Lower Upper

43 100

72 24.3 19.4 29.2





#29

Tetrahydrofuran

Concen: 0.618 ug/l

RT: 5.038 min Scan# 644

Delta R.T. 0.024 min

Lab File: VX042896.D

Acq: 07 Aug 2024 03:16

Instrument :

MSVOA\_X

ClientSampleId :

TP7

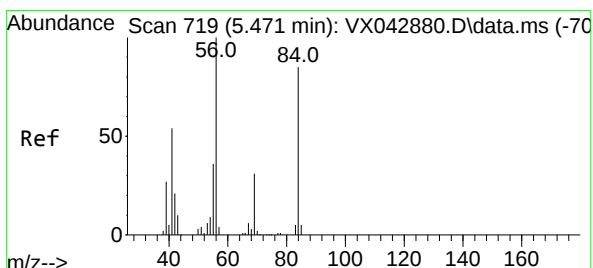
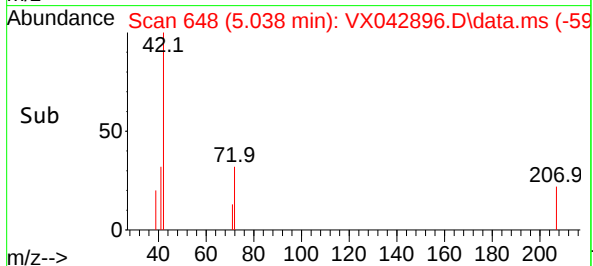
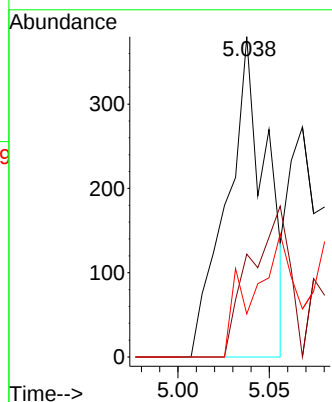
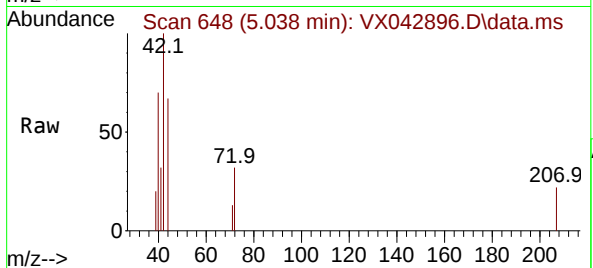
Tgt Ion: 42 Resp: 573

Ion Ratio Lower Upper

42 100

72 46.1 34.2 51.4

71 40.5 32.2 48.2



#31

Cyclohexane

Concen: 1.288 ug/l

RT: 5.550 min Scan# 732

Delta R.T. 0.079 min

Lab File: VX042896.D

Acq: 07 Aug 2024 03:16

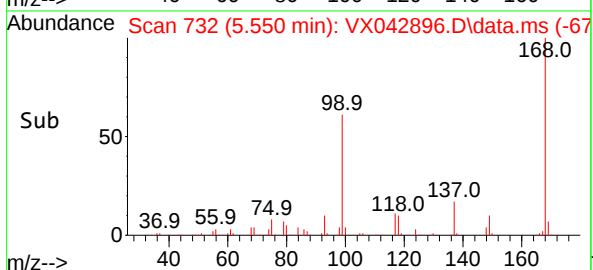
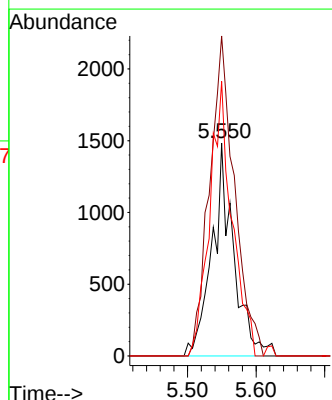
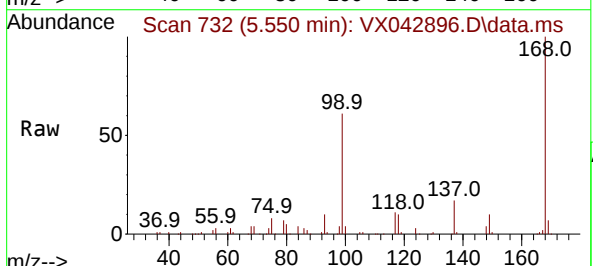
Tgt Ion: 56 Resp: 3246

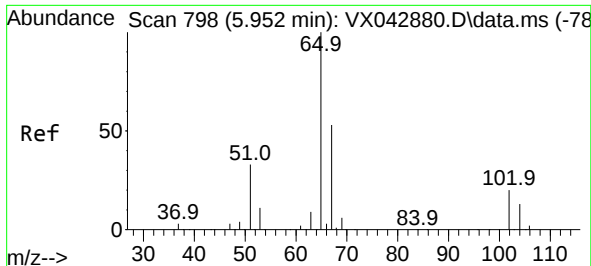
Ion Ratio Lower Upper

56 100

69 150.3 23.4 35.2#

84 128.9 65.9 98.9#

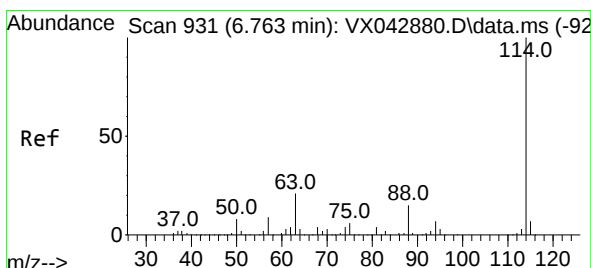
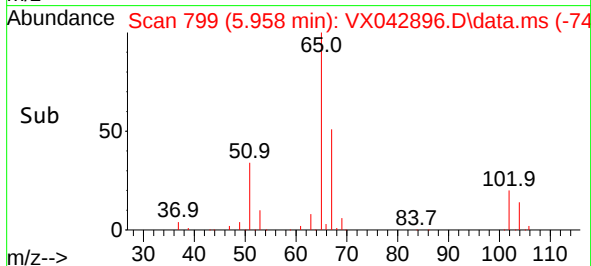
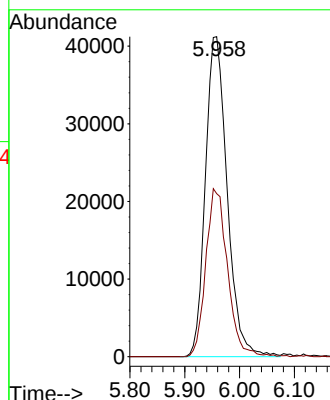
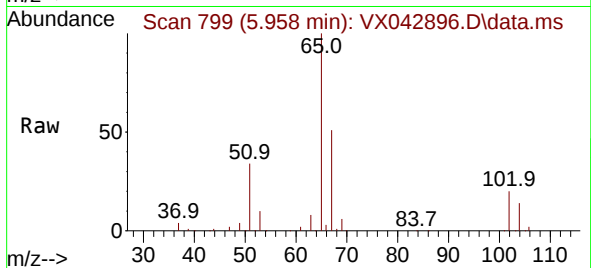




#33  
 1,2-Dichloroethane-d4  
 Concen: 56.383 ug/l  
 RT: 5.958 min Scan# 798  
 Delta R.T. 0.006 min  
 Lab File: VX042896.D  
 Acq: 07 Aug 2024 03:16

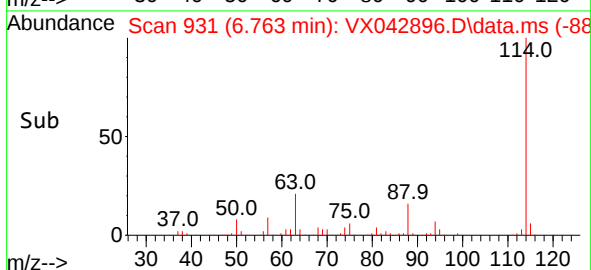
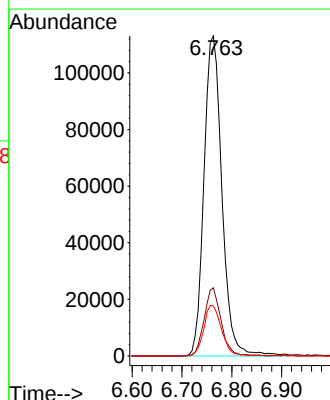
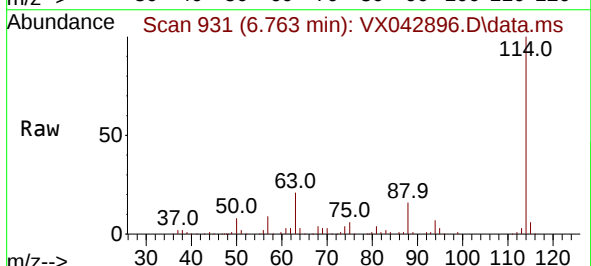
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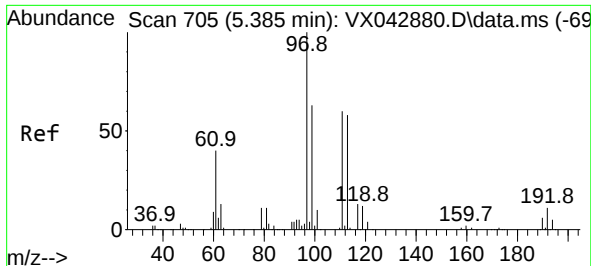
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 Ion Ratio Lower Upper  
 65 100  
 67 52.4 0.0 100.2



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 6.763 min Scan# 931  
 Delta R.T. -0.000 min  
 Lab File: VX042896.D  
 Acq: 07 Aug 2024 03:16

Tgt Ion: 114 Resp: 283068  
 Ion Ratio Lower Upper  
 114 100  
 63 21.3 0.0 45.0  
 88 15.7 0.0 36.6

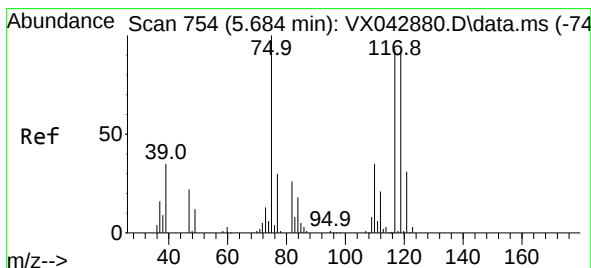
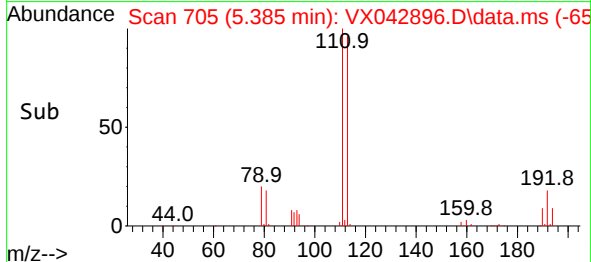
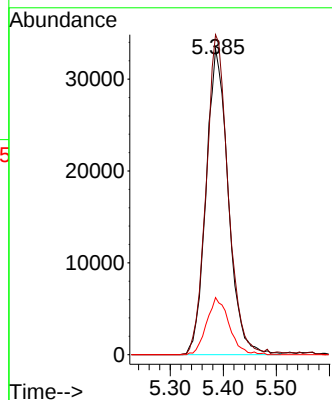
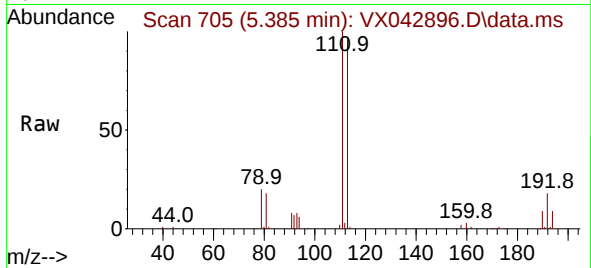




#35  
Dibromofluoromethane  
Concen: 52.293 ug/l  
RT: 5.385 min Scan# 705  
Delta R.T. -0.000 min  
Lab File: VX042896.D  
Acq: 07 Aug 2024 03:16

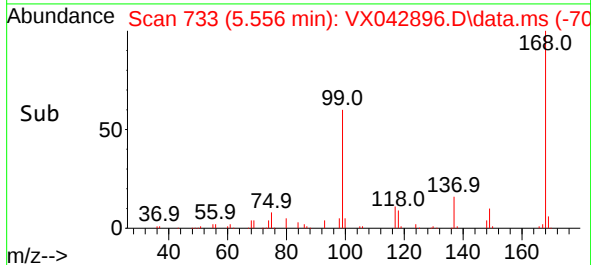
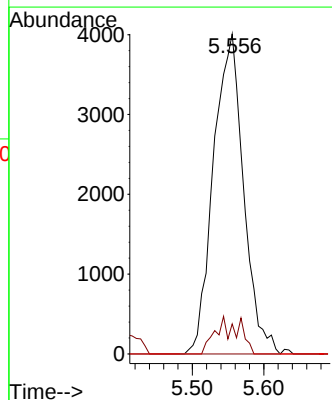
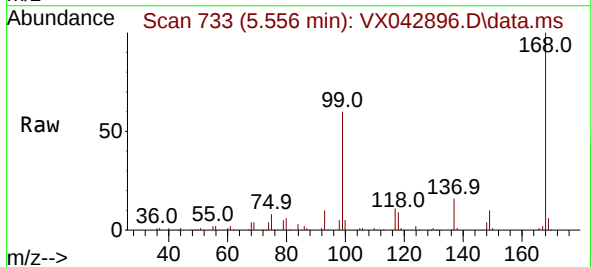
Instrument :  
MSVOA\_X  
ClientSampleId :  
TP7

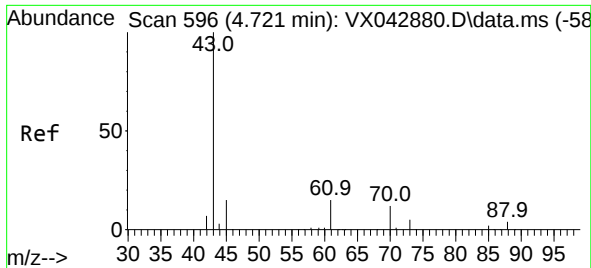
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Ion Ratio Lower Upper  
113 100  
111 103.9 82.9 124.3  
192 18.9 13.3 19.9



#36  
1,1-Dichloropropene  
Concen: 4.663 ug/l  
RT: 5.556 min Scan# 733  
Delta R.T. -0.128 min  
Lab File: VX042896.D  
Acq: 07 Aug 2024 03:16

Tgt Ion: 75 Resp: 11701  
Ion Ratio Lower Upper  
75 100  
110 4.8 17.0 50.9#  
77 0.0 24.7 37.1#

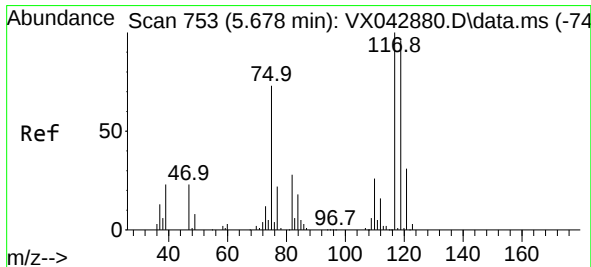
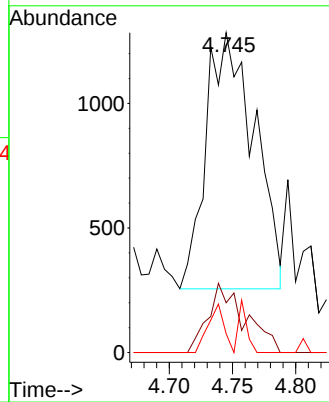
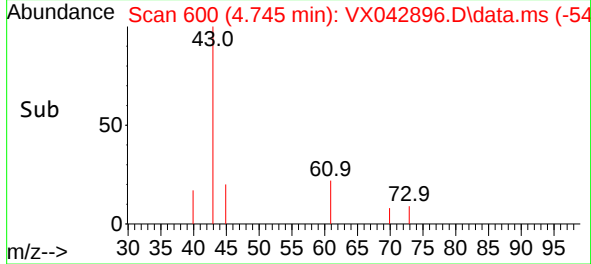
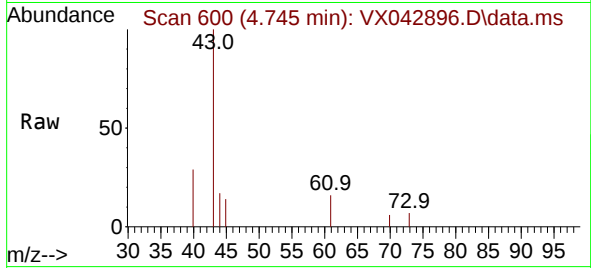




#37  
Ethyl Acetate  
Concen: 0.868 ug/l  
RT: 4.745 min Scan# 600  
Delta R.T. 0.024 min  
Lab File: VX042896.D  
Acq: 07 Aug 2024 03:16

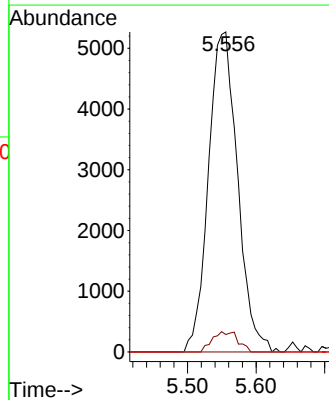
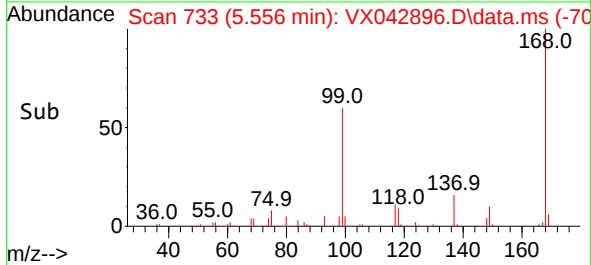
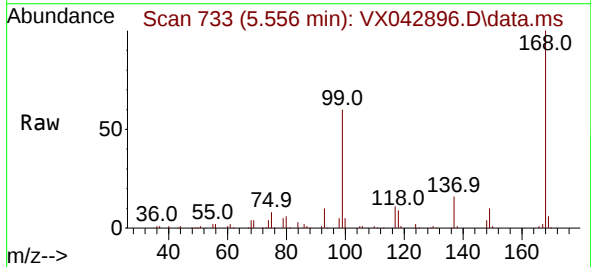
Instrument :  
MSVOA\_X  
ClientSampleId :  
TP7

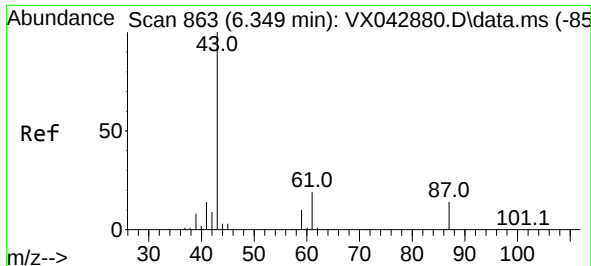
Tgt Ion: 43 Resp: 2726  
Ion Ratio Lower Upper  
43 100  
61 20.7 10.6 16.0#  
70 6.3 8.3 12.5#



#38  
Carbon Tetrachloride  
Concen: 5.500 ug/l  
RT: 5.556 min Scan# 733  
Delta R.T. -0.122 min  
Lab File: VX042896.D  
Acq: 07 Aug 2024 03:16

Tgt Ion: 117 Resp: 15581  
Ion Ratio Lower Upper  
117 100  
119 5.5 78.2 117.2#  
121 0.0 24.4 36.6#

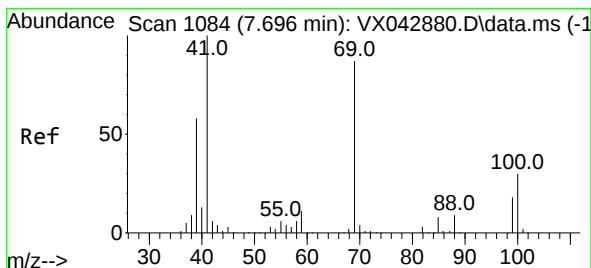
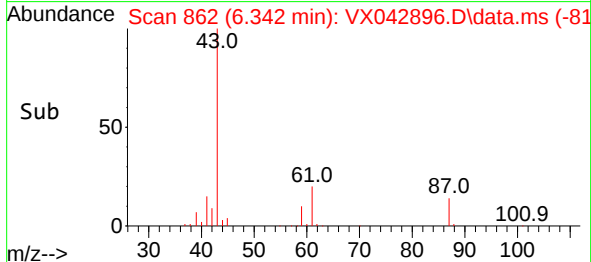
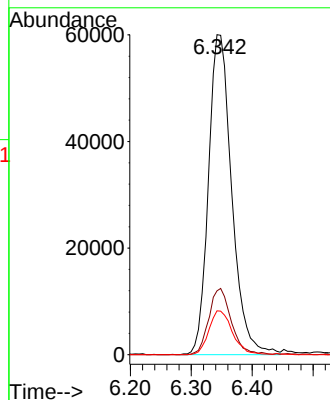
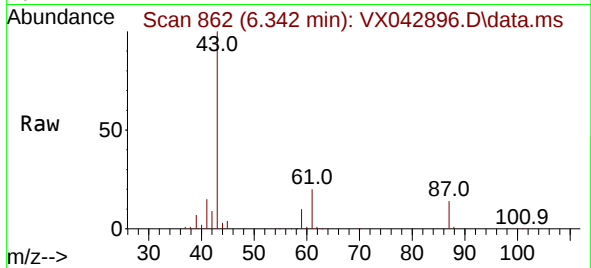




#43  
Isopropyl Acetate  
Concen: 34.411 ug/l  
RT: 6.342 min Scan# 81  
Delta R.T. -0.006 min  
Lab File: VX042896.D  
Acq: 07 Aug 2024 03:16

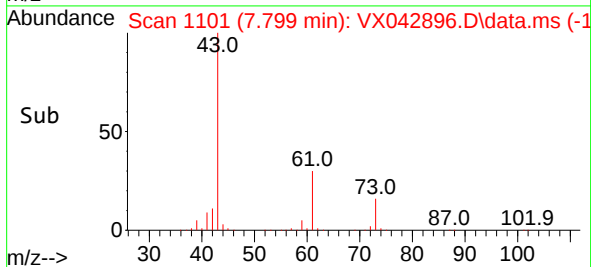
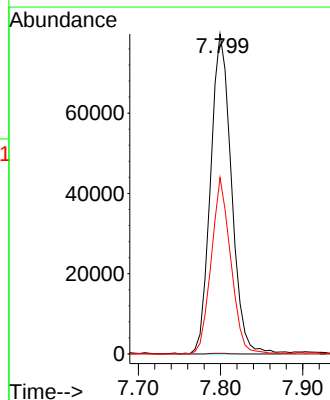
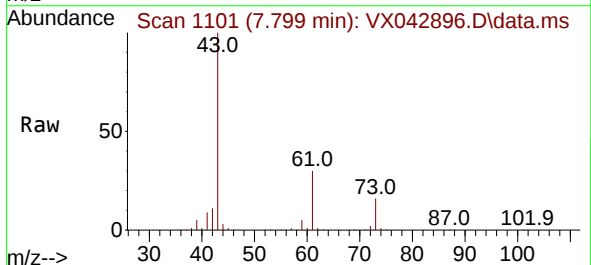
Instrument :  
MSVOA\_X  
ClientSampleId :  
TP7

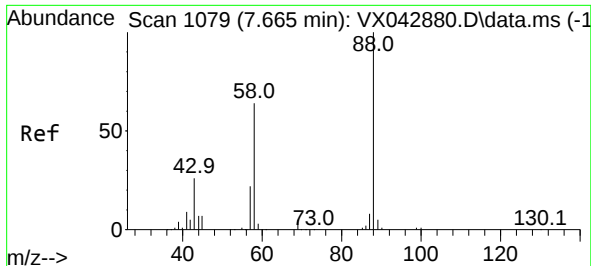
Tgt Ion: 43 Resp: 159778  
Ion Ratio Lower Upper  
43 100  
61 19.9 15.2 22.8  
87 13.8 9.8 14.6



#48  
Methyl methacrylate  
Concen: 63.204 ug/l  
RT: 7.799 min Scan# 1101  
Delta R.T. 0.103 min  
Lab File: VX042896.D  
Acq: 07 Aug 2024 03:16

Tgt Ion: 41 Resp: 140722  
Ion Ratio Lower Upper  
41 100  
69 0.2 59.2 88.8#  
39 51.6 47.7 71.5





#49

1,4-Dioxane

Concen: 0.971 ug/l

RT: 7.659 min Scan# 1079

Delta R.T. -0.006 min

Lab File: VX042896.D

Acq: 07 Aug 2024 03:16

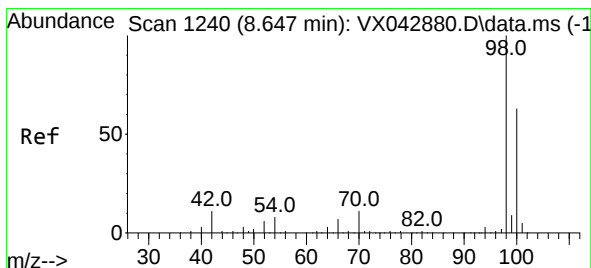
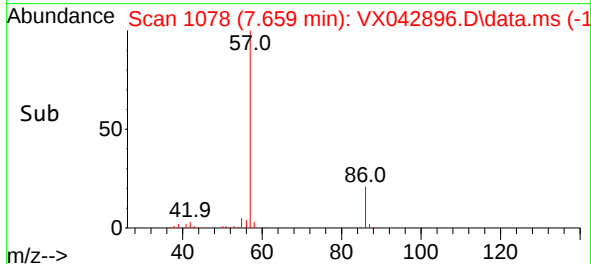
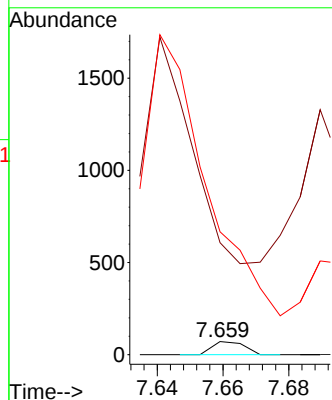
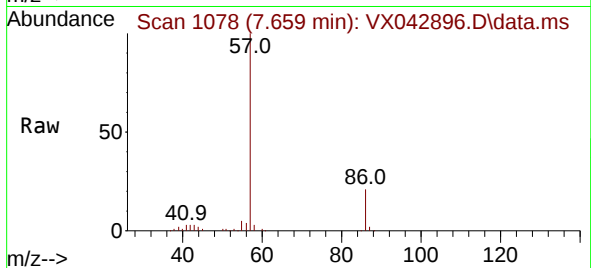
Instrument :

MSVOA\_X

ClientSampleId :

TP7

|             |                   |
|-------------|-------------------|
| Tgt Ion: 88 | Resp: 48          |
| Ion Ratio   | Lower Upper       |
| 88          | 100               |
| 43          | 0.0 0.0 0.0       |
| 58          | 5943.8 60.1 90.1# |



#50

Toluene-d8

Concen: 54.082 ug/l

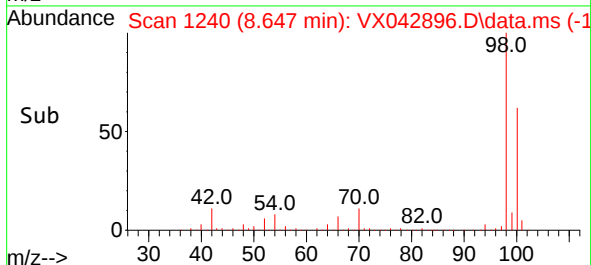
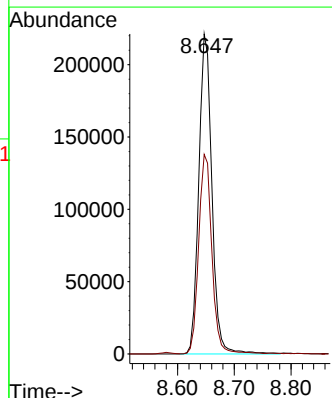
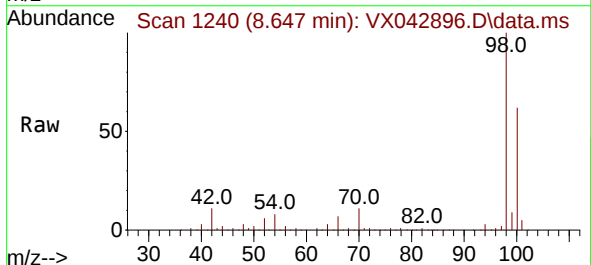
RT: 8.647 min Scan# 1240

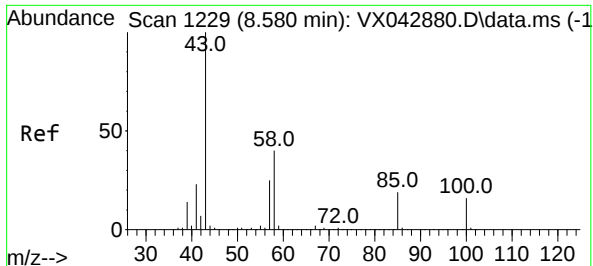
Delta R.T. -0.000 min

Lab File: VX042896.D

Acq: 07 Aug 2024 03:16

|             |                |
|-------------|----------------|
| Tgt Ion: 98 | Resp: 355347   |
| Ion Ratio   | Lower Upper    |
| 98          | 100            |
| 100         | 62.7 53.1 79.7 |

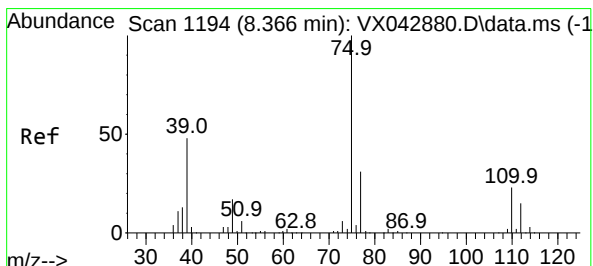
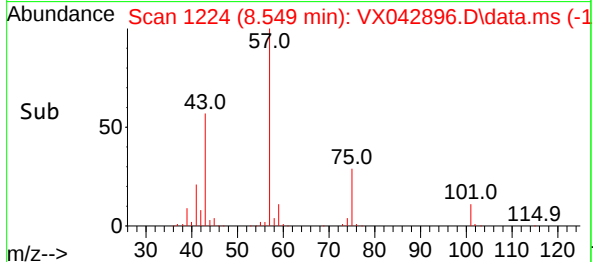
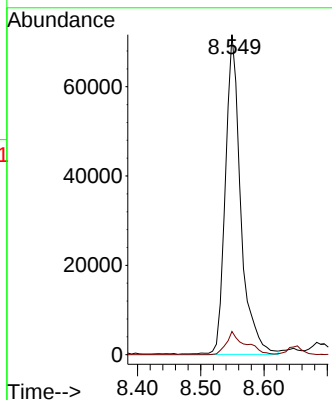
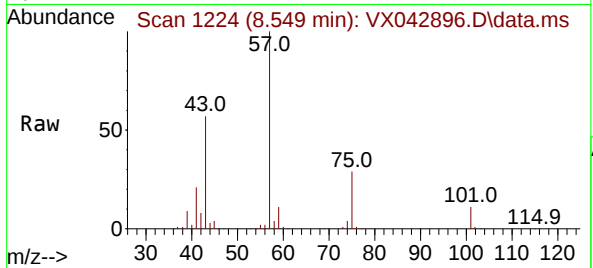




#51  
4-Methyl-2-Pentanone  
Concen: 38.790 ug/l  
RT: 8.549 min Scan# 11  
Delta R.T. -0.031 min  
Lab File: VX042896.D  
Acq: 07 Aug 2024 03:16

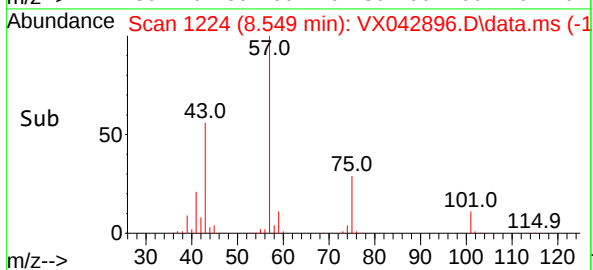
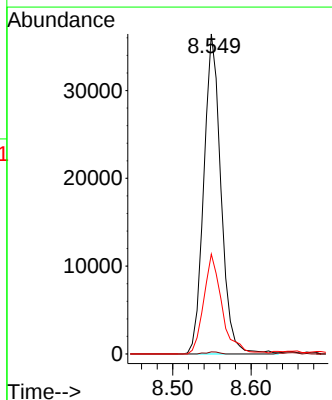
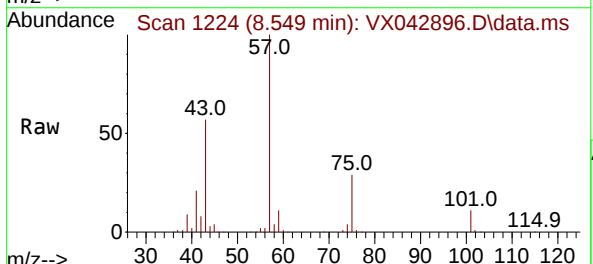
Instrument :  
MSVOA\_X  
ClientSampleId :  
TP7

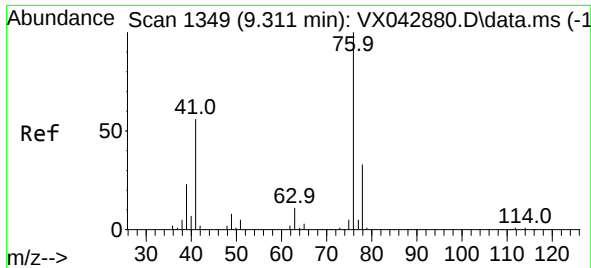
Tgt Ion: 43 Resp: 120647  
Ion Ratio Lower Upper  
43 100  
58 8.9 30.4 45.6#



#54  
cis-1,3-Dichloropropene  
Concen: 20.126 ug/l  
RT: 8.549 min Scan# 1224  
Delta R.T. 0.183 min  
Lab File: VX042896.D  
Acq: 07 Aug 2024 03:16

Tgt Ion: 75 Resp: 55382  
Ion Ratio Lower Upper  
75 100  
77 0.6 25.3 37.9#  
39 31.2 46.7 70.1#





#57

1,3-Dichloropropane

Concen: 2.174 ug/l

RT: 9.482 min Scan# 1377

Delta R.T. 0.171 min

Lab File: VX042896.D

Acq: 07 Aug 2024 03:16

Instrument :

MSVOA\_X

ClientSampleId :

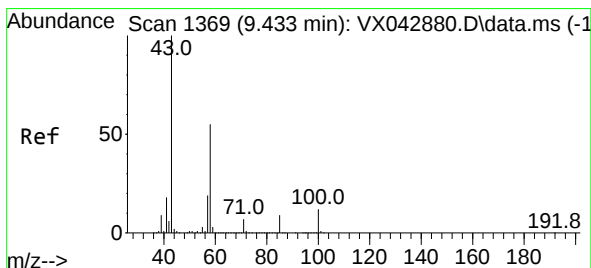
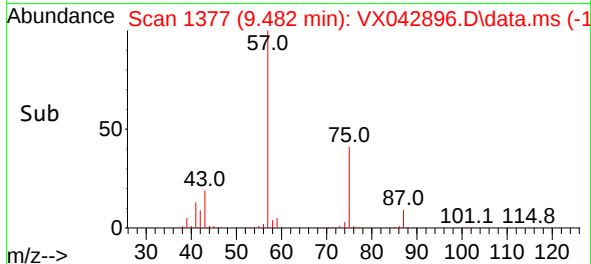
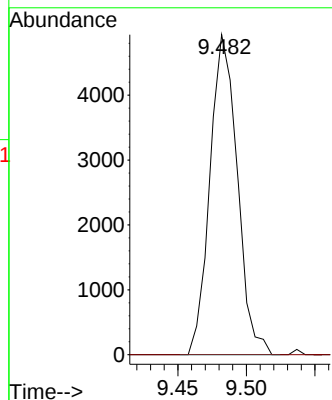
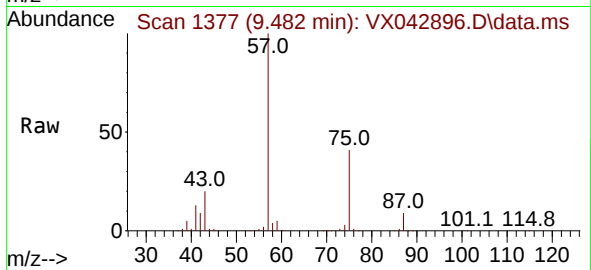
TP7

Tgt Ion: 76 Resp: 6840

Ion Ratio Lower Upper

76 100

78 0.0 26.1 39.1#



#59

2-Hexanone

Concen: 39.899 ug/l

RT: 9.482 min Scan# 1377

Delta R.T. 0.049 min

Lab File: VX042896.D

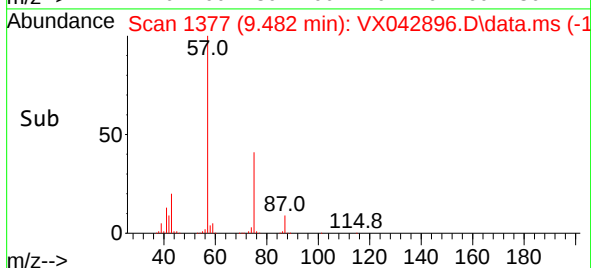
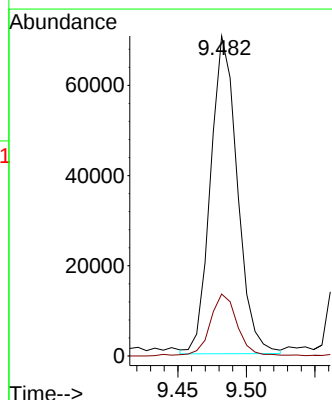
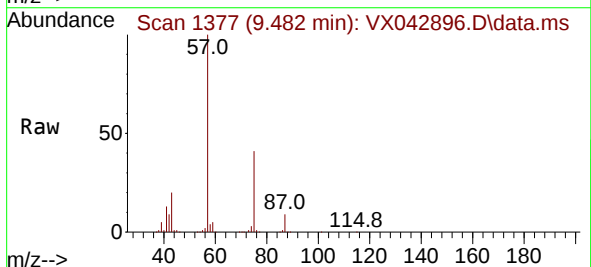
Acq: 07 Aug 2024 03:16

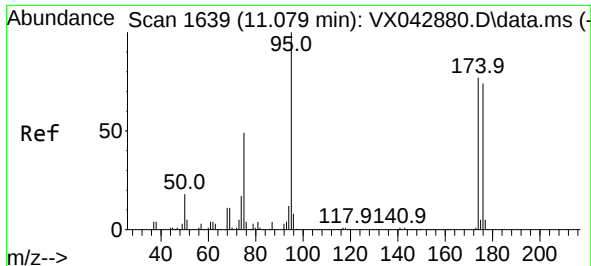
Tgt Ion: 43 Resp: 96159

Ion Ratio Lower Upper

43 100

58 19.9 26.2 78.5#

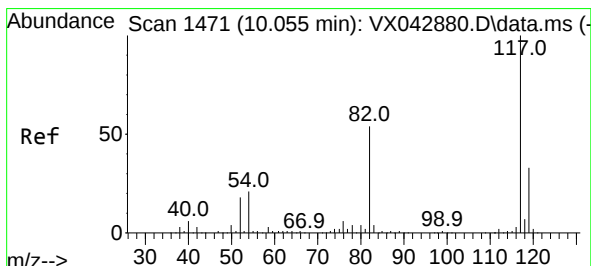
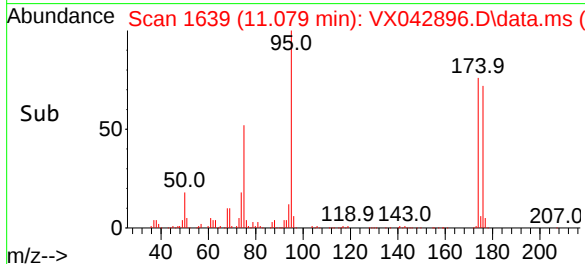
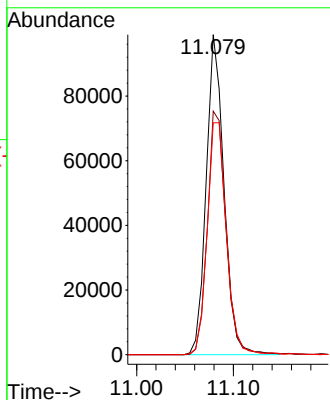
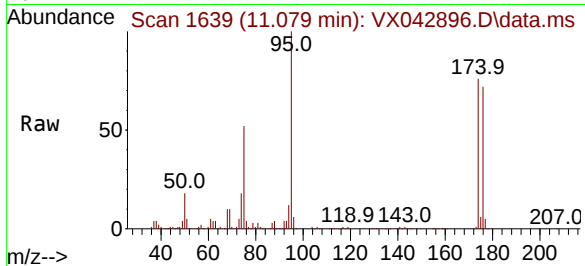




#62  
4-Bromofluorobenzene  
Concen: 53.750 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. -0.000 min  
Lab File: VX042896.D  
Acq: 07 Aug 2024 03:16

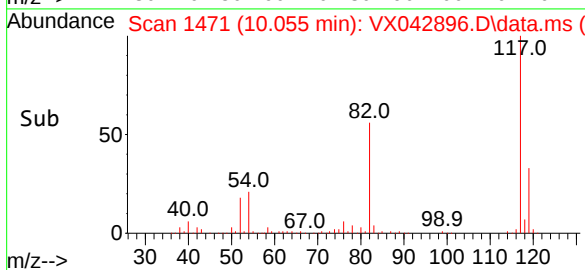
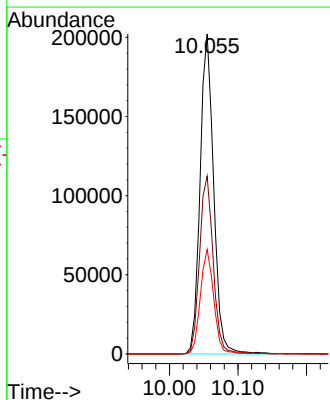
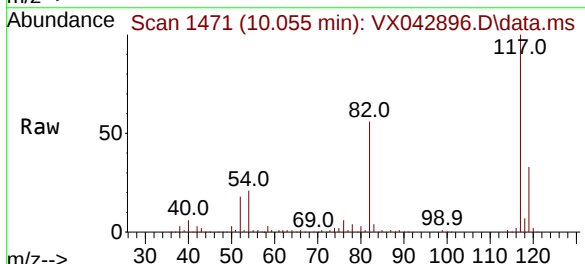
Instrument :  
MSVOA\_X  
ClientSampleId :  
TP7

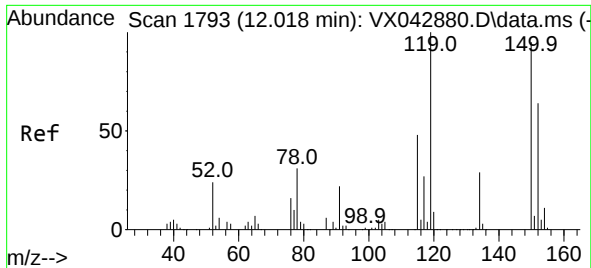
Tgt Ion: 95 Resp: 126909  
Ion Ratio Lower Upper  
95 100  
174 79.3 0.0 135.6  
176 78.5 0.0 131.0



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.055 min Scan# 1471  
Delta R.T. -0.000 min  
Lab File: VX042896.D  
Acq: 07 Aug 2024 03:16

Tgt Ion: 117 Resp: 279166  
Ion Ratio Lower Upper  
117 100  
82 55.6 46.2 69.4  
119 32.6 25.5 38.3

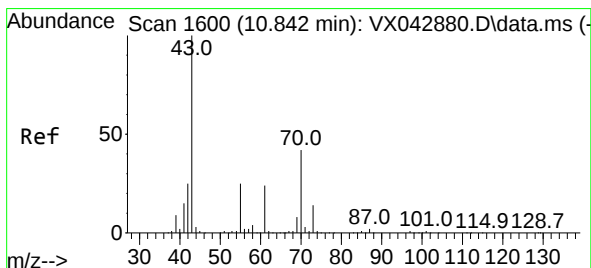
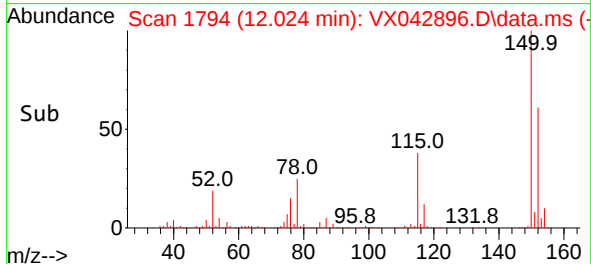
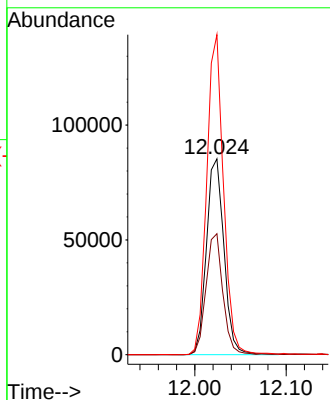
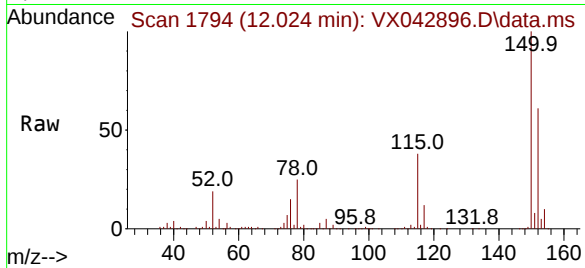




#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.024 min Scan# 11  
Delta R.T. 0.006 min  
Lab File: VX042896.D  
Acq: 07 Aug 2024 03:16

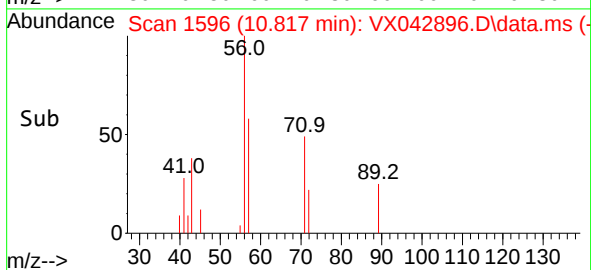
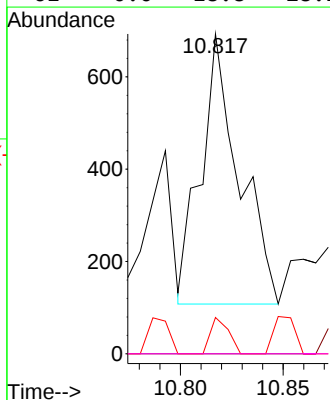
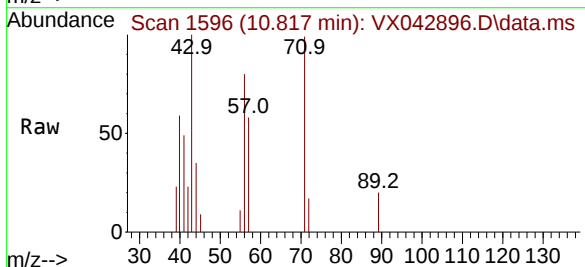
Instrument :  
MSVOA\_X  
ClientSampleId :  
TP7

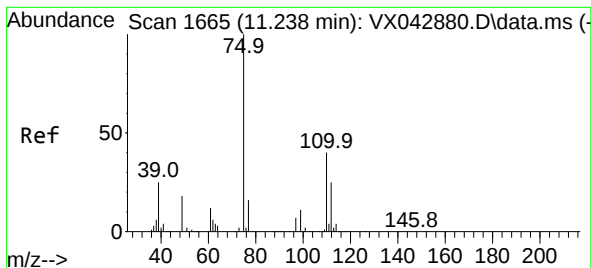
Tgt Ion:152 Resp: 113380  
Ion Ratio Lower Upper  
152 100  
115 59.7 43.3 129.9  
150 156.5 0.0 345.0



#74  
N-ethyl acetate  
Concen: 0.206 ug/l  
RT: 10.817 min Scan# 1596  
Delta R.T. -0.025 min  
Lab File: VX042896.D  
Acq: 07 Aug 2024 03:16

Tgt Ion: 43 Resp: 760  
Ion Ratio Lower Upper  
43 100  
70 0.0 32.9 49.3#  
55 6.3 19.3 28.9#  
61 0.0 18.8 28.2#





#76

1,2,3-Trichloropropane

Concen: 25.767 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. -0.159 min

Lab File: VX042896.D

Acq: 07 Aug 2024 03:16

Instrument :

MSVOA\_X

ClientSampleId :

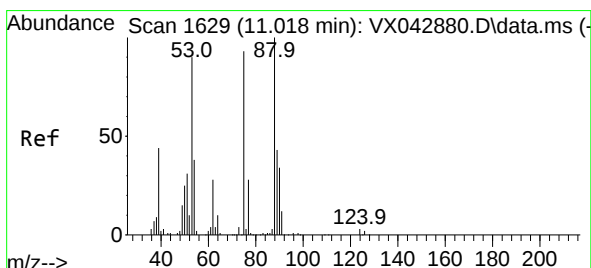
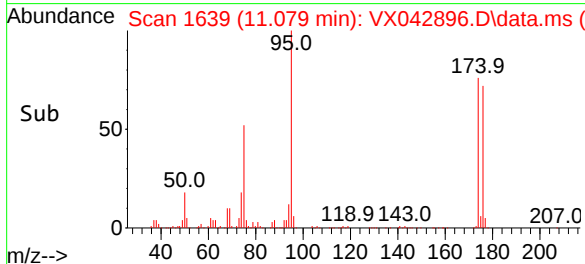
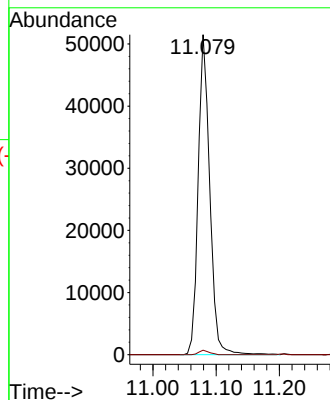
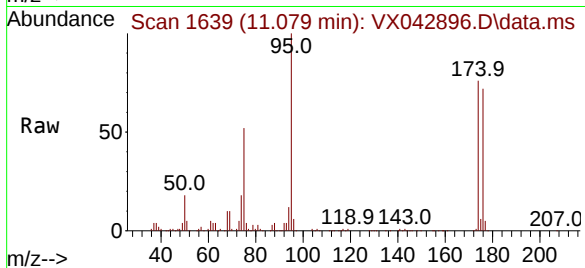
TP7

Tgt Ion: 75 Resp: 65702

Ion Ratio Lower Upper

75 100

77 1.2 19.1 57.5#



#81

trans-1,4-Dichloro-2-butene

Concen: 83.781 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. 0.061 min

Lab File: VX042896.D

Acq: 07 Aug 2024 03:16

Tgt Ion: 75 Resp: 65702

Ion Ratio Lower Upper

75 100

53 0.0 90.5 135.7#

89 0.2 36.9 55.3#

