

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX062824\  
 Data File : VX042087.D  
 Acq On : 28 Jun 2024 15:52  
 Operator : JC/MD  
 Sample : P3128-04  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :

Quant Time: Jun 29 04:21:14 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X061824W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Jun 21 23:51:58 2024  
 Response via : Initial Calibration

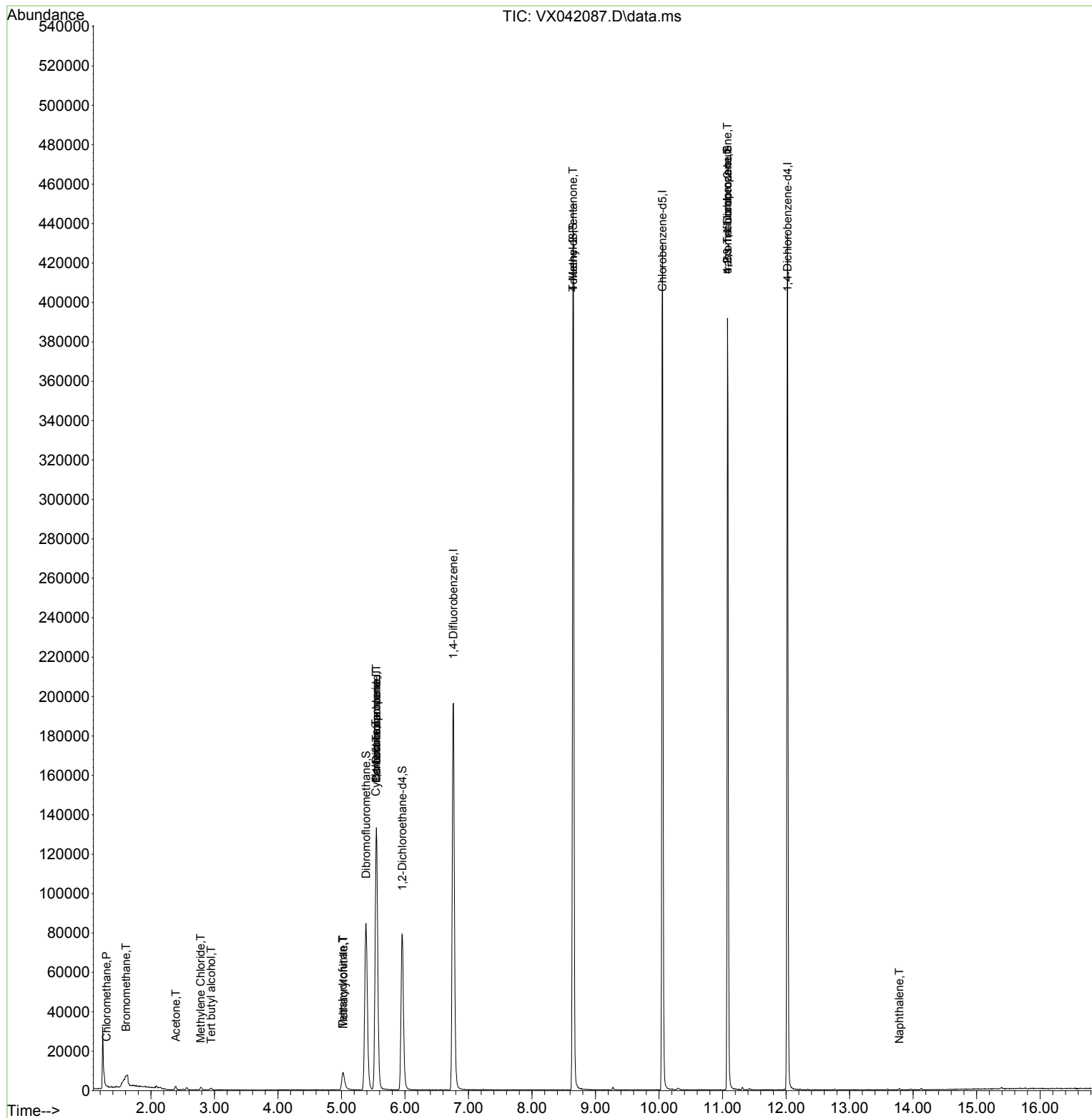
| Compound                      | R.T.   | QIon  | Response | Conc      | Units | Dev(Min) |
|-------------------------------|--------|-------|----------|-----------|-------|----------|
| -----                         |        |       |          |           |       |          |
| Internal Standards            |        |       |          |           |       |          |
| 1) Pentafluorobenzene         | 5.550  | 168   | 149424   | 50.000    | ug/l  | # 0.00   |
| 34) 1,4-Difluorobenzene       | 6.763  | 114   | 226064   | 50.000    | ug/l  | 0.00     |
| 63) Chlorobenzene-d5          | 10.055 | 117   | 220692   | 50.000    | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.024 | 152   | 105868   | 50.000    | ug/l  | 0.00     |
| System Monitoring Compounds   |        |       |          |           |       |          |
| 33) 1,2-Dichloroethane-d4     | 5.958  | 65    | 76256    | 44.256    | ug/l  | 0.00     |
| Spiked Amount                 | 50.000 | Range | 78 - 117 | Recovery  | =     | 88.520%  |
| 35) Dibromofluoromethane      | 5.385  | 113   | 76711    | 47.824    | ug/l  | 0.00     |
| Spiked Amount                 | 50.000 | Range | 75 - 124 | Recovery  | =     | 95.640%  |
| 50) Toluene-d8                | 8.647  | 98    | 278105   | 49.352    | ug/l  | 0.00     |
| Spiked Amount                 | 50.000 | Range | 92 - 112 | Recovery  | =     | 98.700%  |
| 62) 4-Bromofluorobenzene      | 11.079 | 95    | 102448   | 49.319    | ug/l  | 0.00     |
| Spiked Amount                 | 50.000 | Range | 83 - 123 | Recovery  | =     | 98.640%  |
| Target Compounds              |        |       |          |           |       |          |
|                               |        |       |          |           |       | Qvalue   |
| 3) Chloromethane              | 1.300  | 50    | 444      | 0.311     | ug/l  | # 82     |
| 5) Bromomethane               | 1.605  | 94    | 300      | 0.424     | ug/l  | # 73     |
| 6) Chloroethane               | 1.666  | 64    | 671      | Below Cal |       | # 43     |
| 11) Tert butyl alcohol        | 2.946  | 59    | 598      | 1.829     | ug/l  | # 78     |
| 16) Acetone                   | 2.392  | 43    | 1911     | 2.526     | ug/l  | # 83     |
| 20) Methylene Chloride        | 2.782  | 84    | 773      | 0.467     | ug/l  | # 95     |
| 29) Tetrahydrofuran           | 5.019  | 42    | 9606     | 12.636    | ug/l  | # 94     |
| 31) Cyclohexane               | 5.544  | 56    | 1951     | 0.968     | ug/l  | # 1      |
| 36) 1,1-Dichloropropene       | 5.550  | 75    | 8313     | 4.880     | ug/l  | # 50     |
| 38) Carbon Tetrachloride      | 5.550  | 117   | 12266    | 6.518     | ug/l  | # 14     |
| 41) Methacrylonitrile         | 5.031  | 41    | 5285     | 4.394     | ug/l  | # 45     |
| 51) 4-Methyl-2-Pentanone      | 8.647  | 43    | 991      | 0.422     | ug/l  | # 1      |
| 76) 1,2,3-Trichloropropane    | 11.079 | 75    | 46140    | 24.007    | ug/l  | # 39     |
| 81) trans-1,4-Dichloro-2-b... | 11.079 | 75    | 46140    | 68.178    | ug/l  | # 5      |
| 95) Naphthalene               | 13.786 | 128   | 1039     | 0.883     | ug/l  | # 69     |
| -----                         |        |       |          |           |       |          |

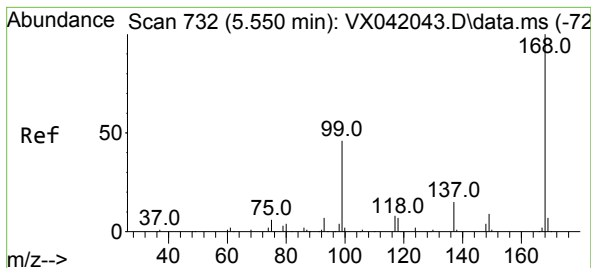
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX062824\  
Data File : VX042087.D  
Acq On : 28 Jun 2024 15:52  
Operator : JC/MD  
Sample : P3128-04  
Misc : 5.0mL/MSVOA\_X/WATER  
ALS Vial : 8 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :

Quant Time: Jun 29 04:21:14 2024  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X061824W.M  
Quant Title : SW846 8260  
QLast Update : Fri Jun 21 23:51:58 2024  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.550 min Scan# 71

Delta R.T. -0.000 min

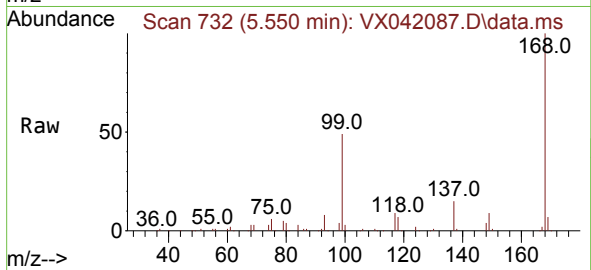
Lab File: VX042087.D

Acq: 28 Jun 2024 15:52

Instrument :

MSVOA\_X

ClientSampleId :

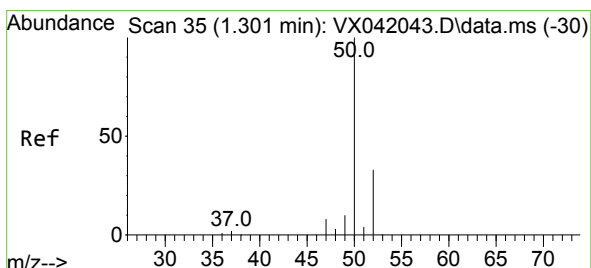
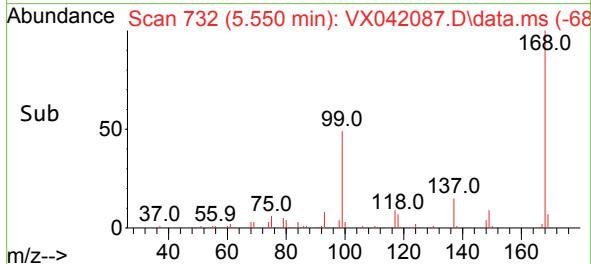
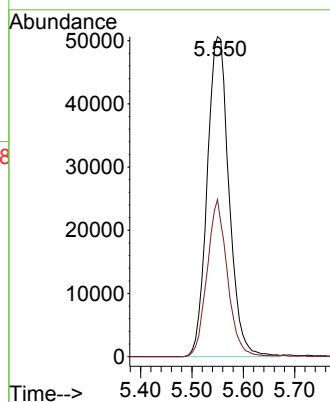


Tgt Ion:168 Resp: 149424

Ion Ratio Lower Upper

168 100

99 49.1 56.6 85.0#



#3

Chloromethane

Concen: 0.311 ug/l

RT: 1.300 min Scan# 35

Delta R.T. -0.006 min

Lab File: VX042087.D

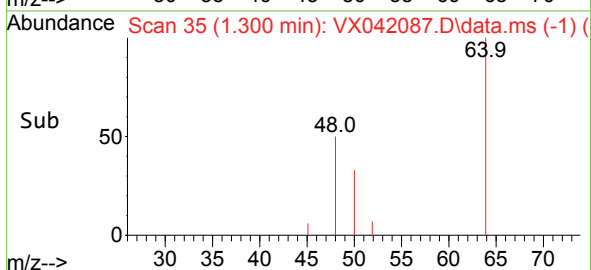
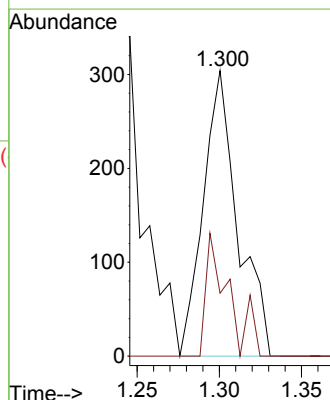
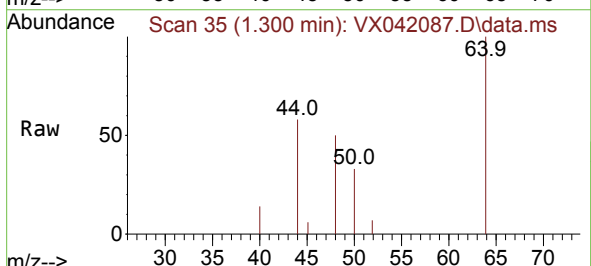
Acq: 28 Jun 2024 15:52

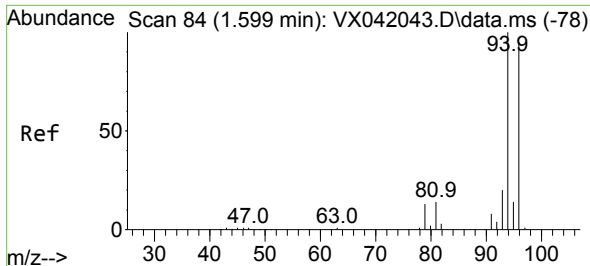
Tgt Ion: 50 Resp: 444

Ion Ratio Lower Upper

50 100

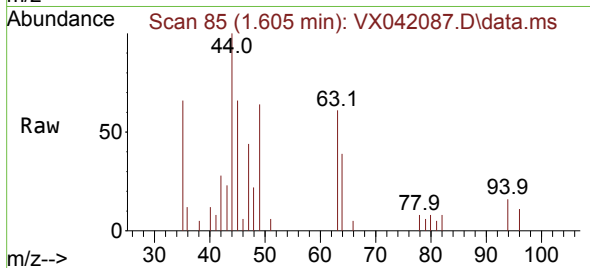
52 22.0 25.5 38.3#



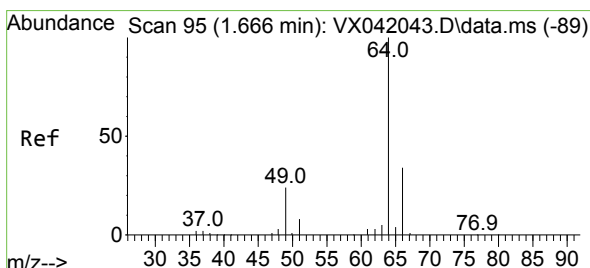
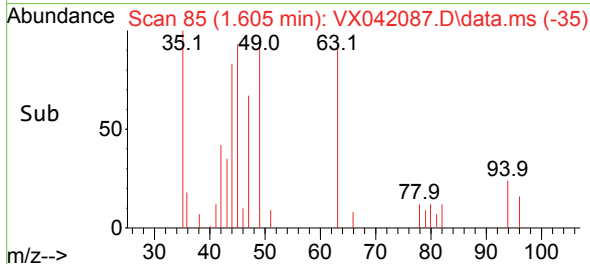
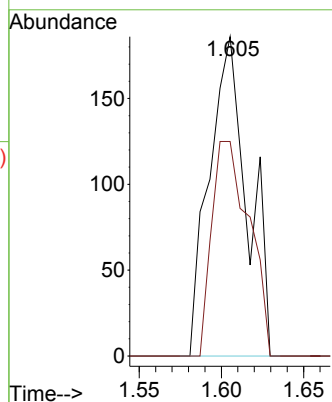


#5  
Bromomethane  
Concen: 0.424 ug/l  
RT: 1.605 min Scan# 84  
Delta R.T. 0.006 min  
Lab File: VX042087.D  
Acq: 28 Jun 2024 15:52

Instrument :  
MSVOA\_X  
ClientSampleId :

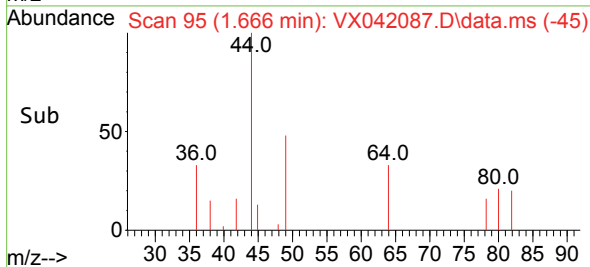
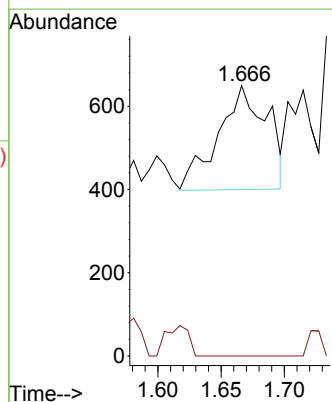
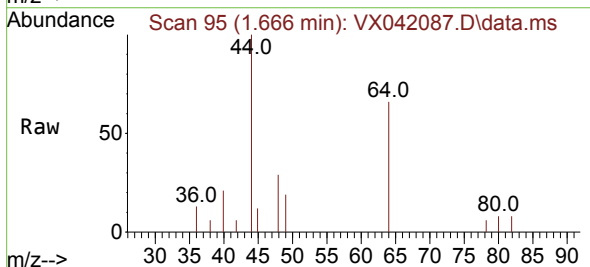


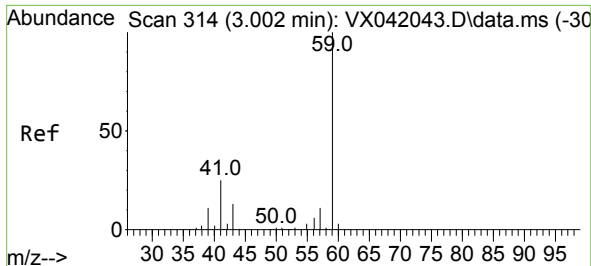
Tgt Ion: 94 Resp: 300  
Ion Ratio Lower Upper  
94 100  
96 67.2 74.6 111.8#



#6  
Chloroethane  
Concen: Below Cal  
RT: 1.666 min Scan# 95  
Delta R.T. 0.006 min  
Lab File: VX042087.D  
Acq: 28 Jun 2024 15:52

Tgt Ion: 64 Resp: 671  
Ion Ratio Lower Upper  
64 100  
66 0.0 25.1 37.7#





#11

Tert butyl alcohol

Concen: 1.829 ug/l

RT: 2.946 min Scan# 30

Delta R.T. -0.061 min

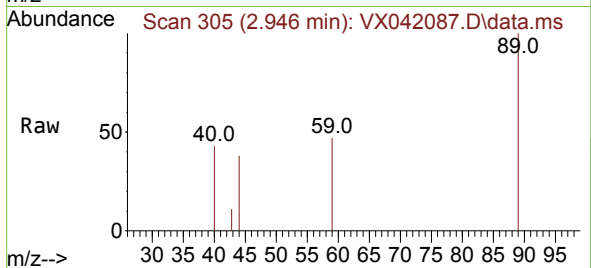
Lab File: VX042087.D

Acq: 28 Jun 2024 15:52

Instrument :

MSVOA\_X

ClientSampleId :

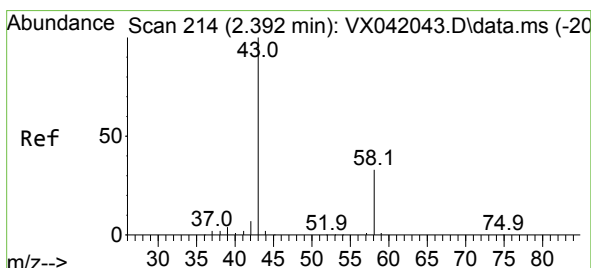
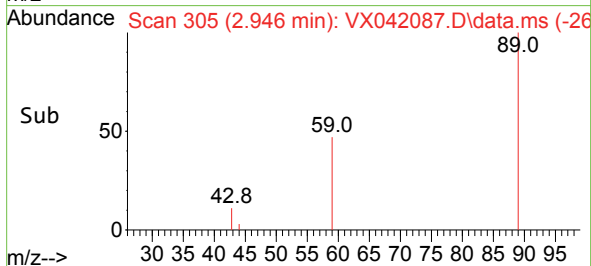
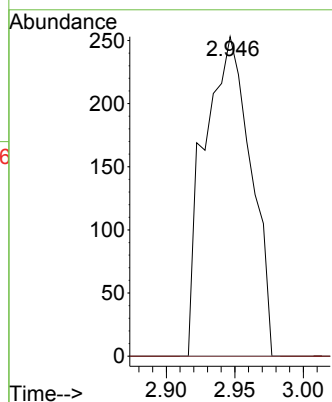


Tgt Ion: 59 Resp: 598

Ion Ratio Lower Upper

59 100

57 0.0 6.0 9.0#



#16

Acetone

Concen: 2.526 ug/l

RT: 2.392 min Scan# 214

Delta R.T. -0.006 min

Lab File: VX042087.D

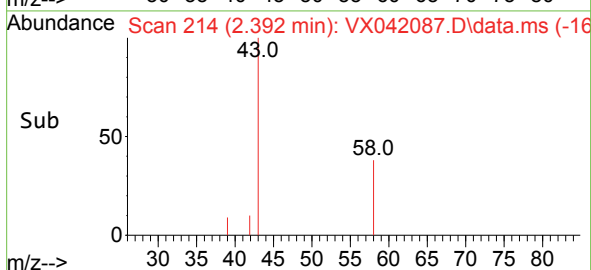
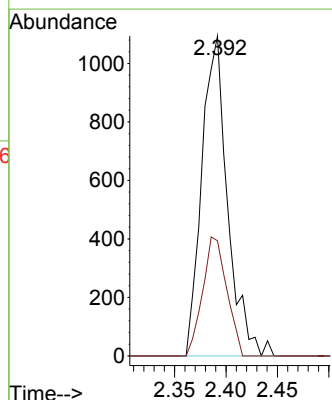
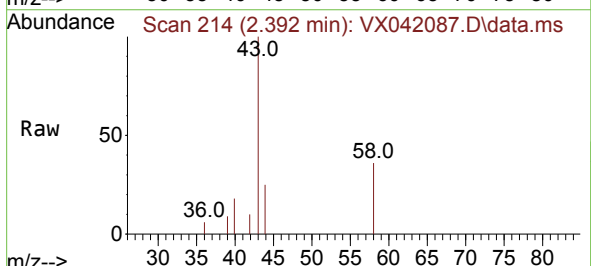
Acq: 28 Jun 2024 15:52

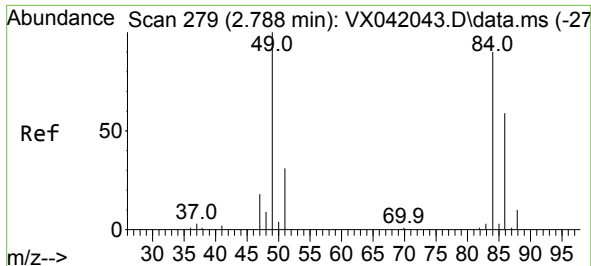
Tgt Ion: 43 Resp: 1911

Ion Ratio Lower Upper

43 100

58 36.0 21.9 32.9#





#20

Methylene Chloride

Concen: 0.467 ug/l

RT: 2.782 min Scan# 21

Delta R.T. -0.000 min

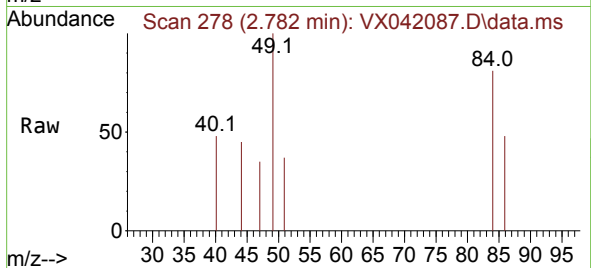
Lab File: VX042087.D

Acq: 28 Jun 2024 15:52

Instrument :

MSVOA\_X

ClientSampleId :



Tgt Ion: 84 Resp: 773

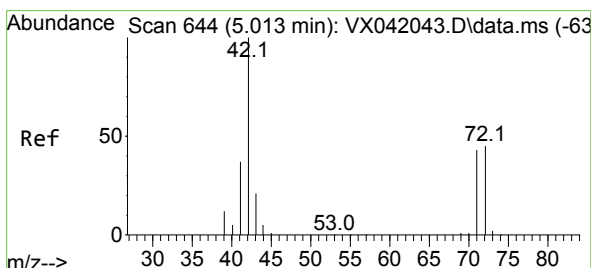
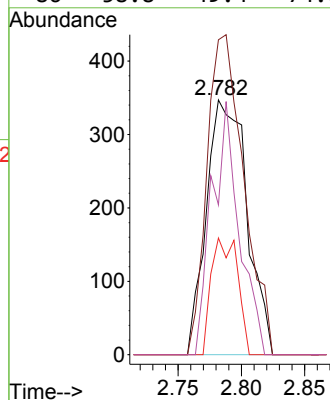
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
|-----|-------|-------|-------|

|    |     |  |  |
|----|-----|--|--|
| 84 | 100 |  |  |
|----|-----|--|--|

|    |       |       |       |
|----|-------|-------|-------|
| 49 | 123.6 | 103.6 | 155.4 |
|----|-------|-------|-------|

|    |      |      |      |
|----|------|------|------|
| 51 | 45.8 | 33.8 | 50.6 |
|----|------|------|------|

|    |      |      |      |
|----|------|------|------|
| 86 | 58.8 | 49.4 | 74.0 |
|----|------|------|------|



#29

Tetrahydrofuran

Concen: 12.636 ug/l

RT: 5.019 min Scan# 645

Delta R.T. -0.000 min

Lab File: VX042087.D

Acq: 28 Jun 2024 15:52

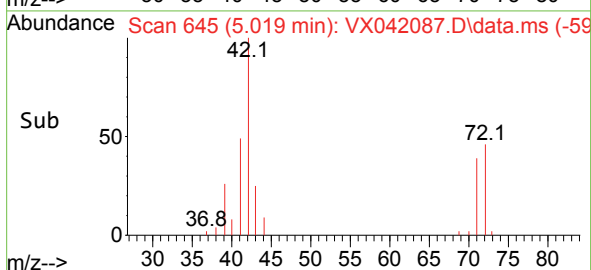
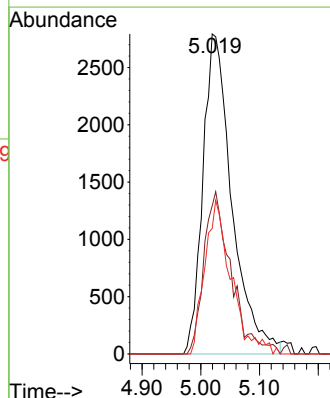
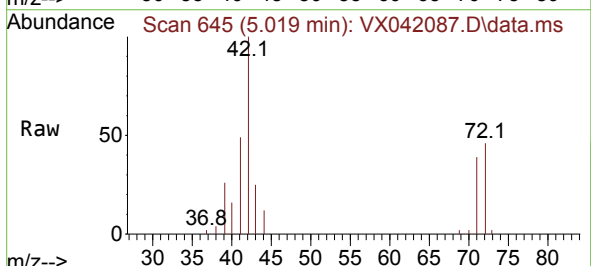
Tgt Ion: 42 Resp: 9606

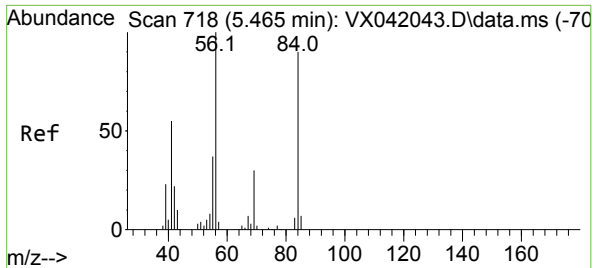
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
|-----|-------|-------|-------|

|    |     |  |  |
|----|-----|--|--|
| 42 | 100 |  |  |
|----|-----|--|--|

|    |      |      |      |
|----|------|------|------|
| 72 | 47.4 | 34.2 | 51.4 |
|----|------|------|------|

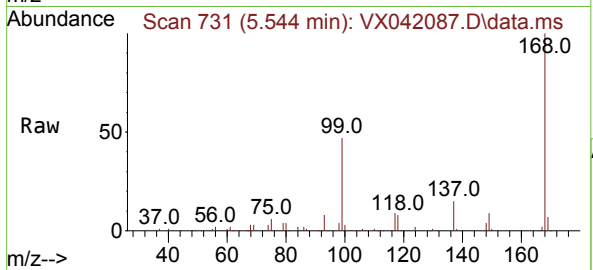
|    |      |      |      |
|----|------|------|------|
| 71 | 43.7 | 32.2 | 48.2 |
|----|------|------|------|



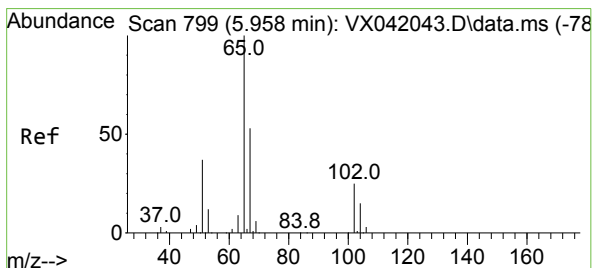
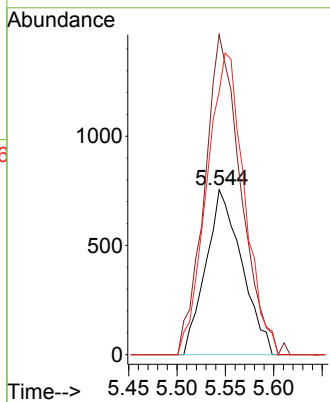
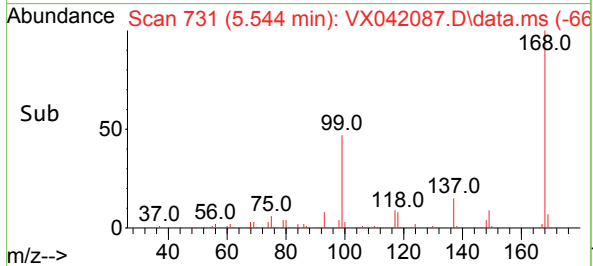


#31  
Cyclohexane  
Concen: 0.968 ug/l  
RT: 5.544 min Scan# 718  
Delta R.T. 0.079 min  
Lab File: VX042087.D  
Acq: 28 Jun 2024 15:52

Instrument :  
MSVOA\_X  
ClientSampleId :

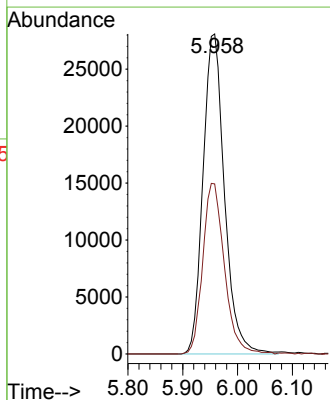
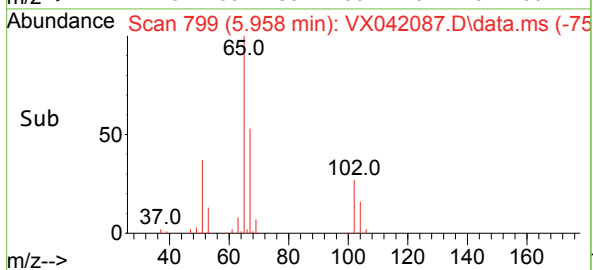
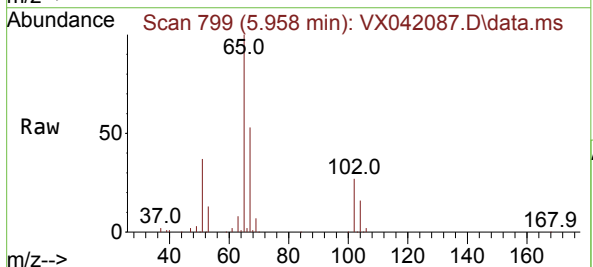


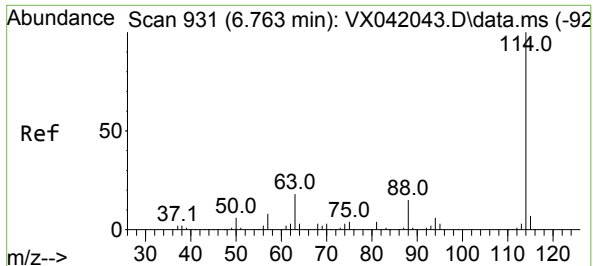
Tgt Ion: 56 Resp: 1951  
Ion Ratio Lower Upper  
56 100  
69 194.0 23.4 35.2#  
84 159.3 65.9 98.9#



#33  
1,2-Dichloroethane-d4  
Concen: 44.256 ug/l  
RT: 5.958 min Scan# 799  
Delta R.T. -0.000 min  
Lab File: VX042087.D  
Acq: 28 Jun 2024 15:52

Tgt Ion: 65 Resp: 76256  
Ion Ratio Lower Upper  
65 100  
67 53.8 0.0 100.2





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.763 min Scan# 91

Delta R.T. -0.000 min

Lab File: VX042087.D

Acq: 28 Jun 2024 15:52

Instrument :

MSVOA\_X

ClientSampleId :

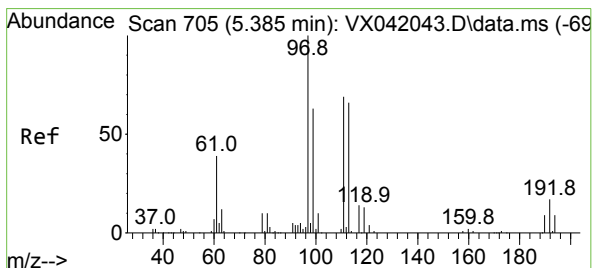
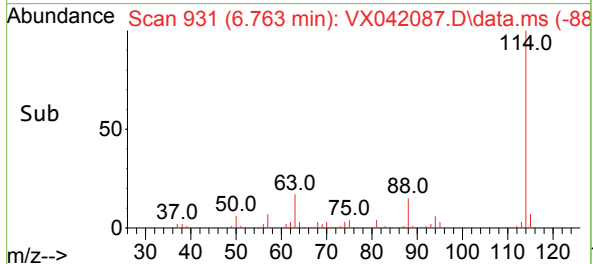
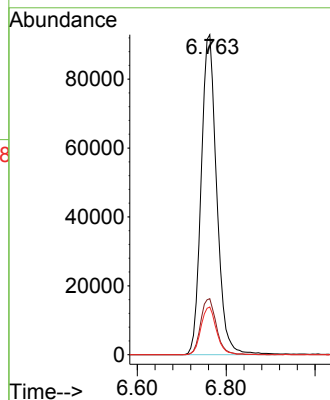
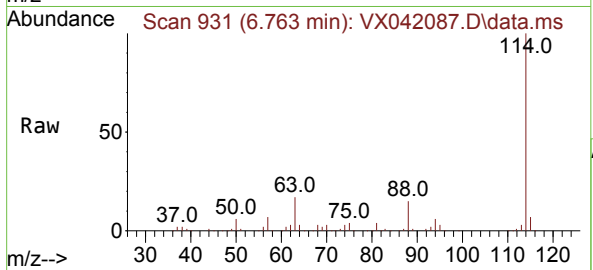
Tgt Ion:114 Resp: 226064

Ion Ratio Lower Upper

114 100

63 17.5 0.0 45.0

88 14.9 0.0 36.6



#35

Dibromofluoromethane

Concen: 47.824 ug/l

RT: 5.385 min Scan# 705

Delta R.T. -0.006 min

Lab File: VX042087.D

Acq: 28 Jun 2024 15:52

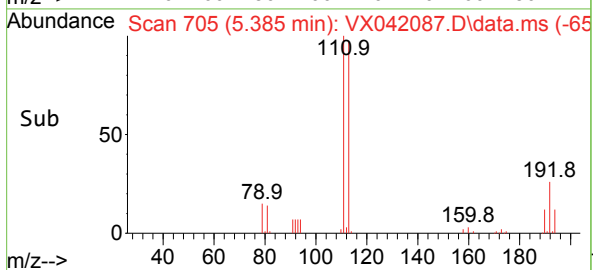
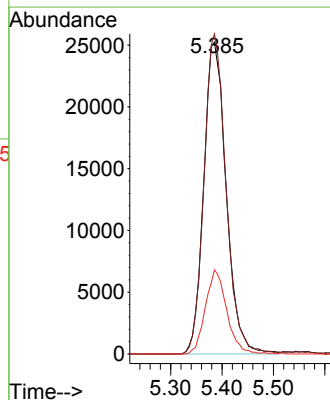
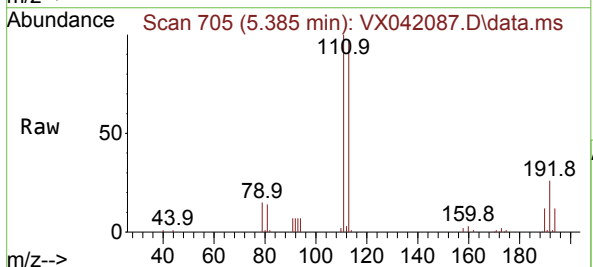
Tgt Ion:113 Resp: 76711

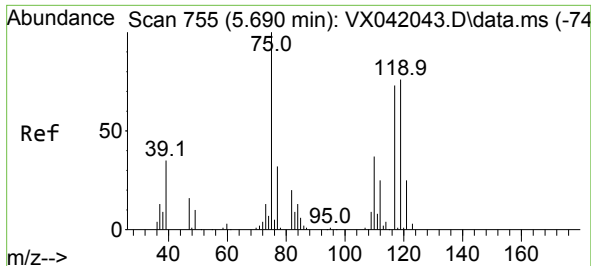
Ion Ratio Lower Upper

113 100

111 100.7 82.9 124.3

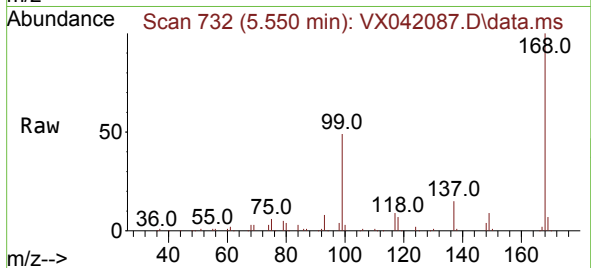
192 25.4 13.3 19.9#



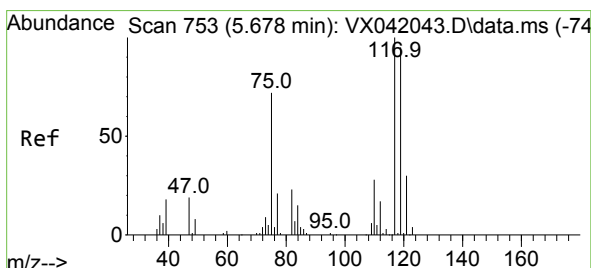
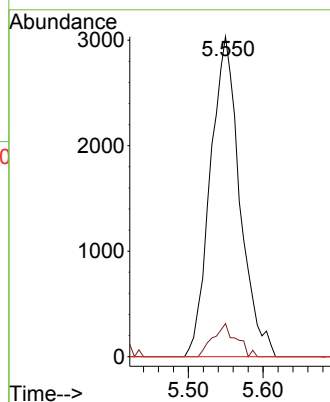
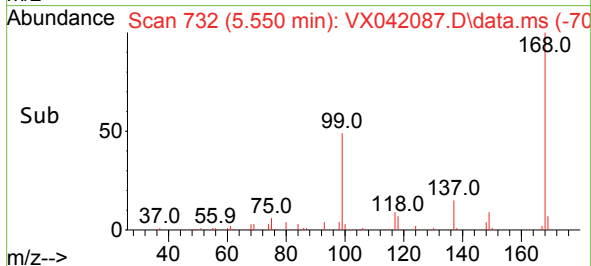


#36  
1,1-Dichloropropene  
Concen: 4.880 ug/l  
RT: 5.550 min Scan# 712  
Delta R.T. -0.140 min  
Lab File: VX042087.D  
Acq: 28 Jun 2024 15:52

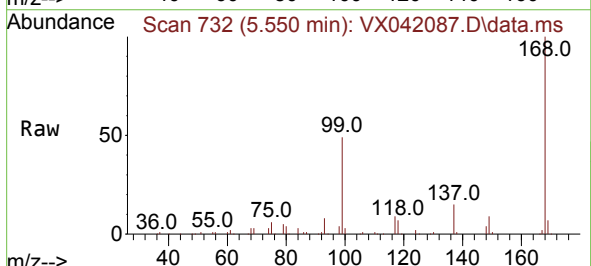
Instrument :  
MSVOA\_X  
ClientSampleId :



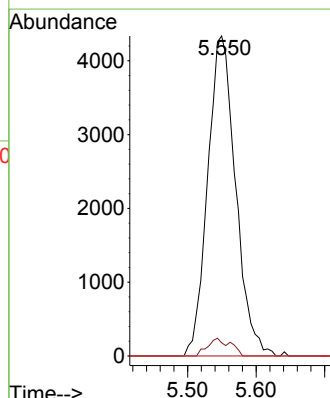
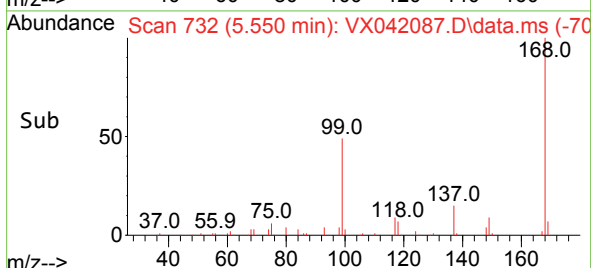
Tgt Ion: 75 Resp: 8313  
Ion Ratio Lower Upper  
75 100  
110 8.1 17.0 50.9#  
77 0.0 24.7 37.1#

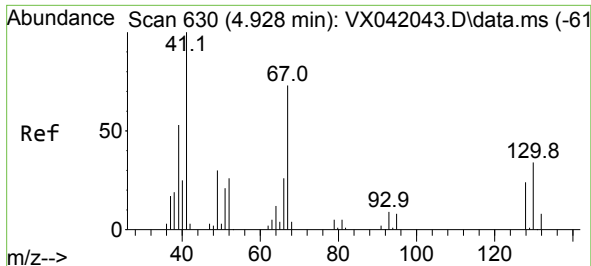


#38  
Carbon Tetrachloride  
Concen: 6.518 ug/l  
RT: 5.550 min Scan# 732  
Delta R.T. -0.128 min  
Lab File: VX042087.D  
Acq: 28 Jun 2024 15:52



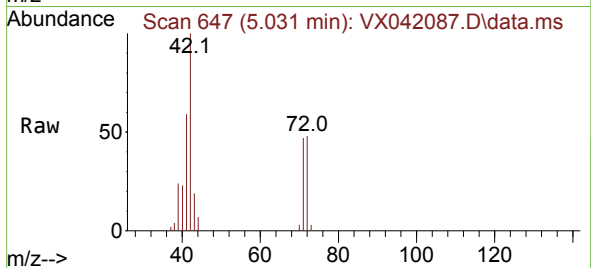
Tgt Ion: 117 Resp: 12266  
Ion Ratio Lower Upper  
117 100  
119 4.1 78.2 117.2#  
121 0.0 24.4 36.6#



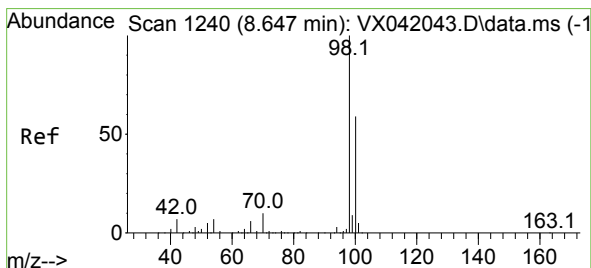
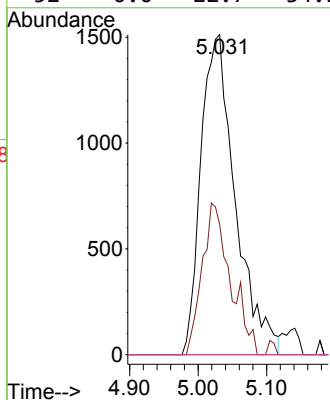
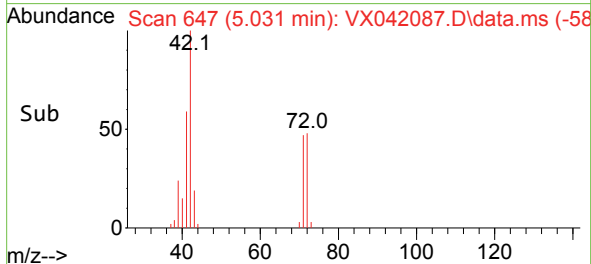


#41  
Methacrylonitrile  
Concen: 4.394 ug/l  
RT: 5.031 min Scan# 647  
Delta R.T. 0.104 min  
Lab File: VX042087.D  
Acq: 28 Jun 2024 15:52

Instrument :  
MSVOA\_X  
ClientSampleId :

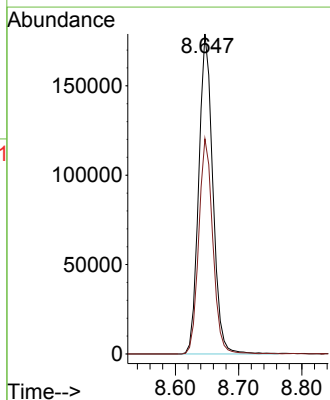
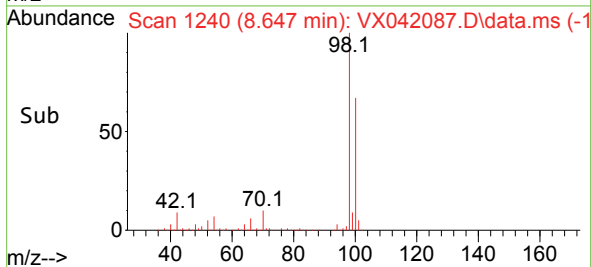
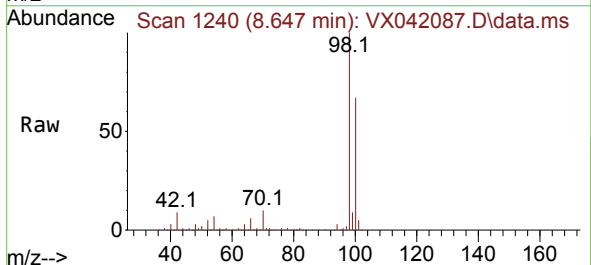


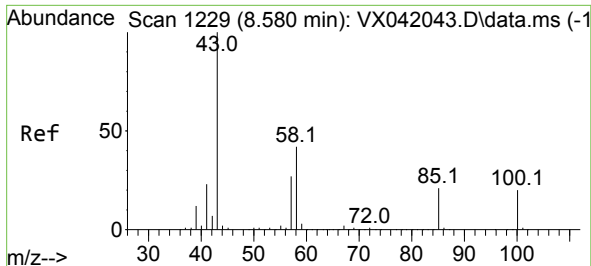
Tgt Ion: 41 Resp: 5285  
Ion Ratio Lower Upper  
41 100  
39 39.0 45.2 67.8#  
67 0.0 52.6 78.8#  
52 0.0 22.7 34.1#



#50  
Toluene-d8  
Concen: 49.352 ug/l  
RT: 8.647 min Scan# 1240  
Delta R.T. -0.000 min  
Lab File: VX042087.D  
Acq: 28 Jun 2024 15:52

Tgt Ion: 98 Resp: 278105  
Ion Ratio Lower Upper  
98 100  
100 67.0 53.1 79.7

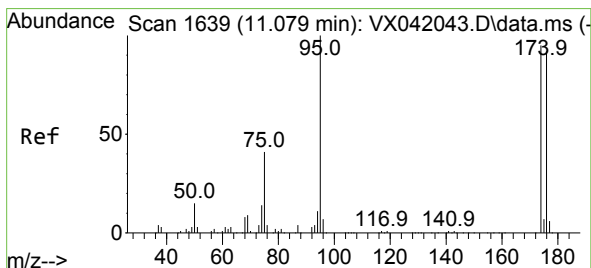
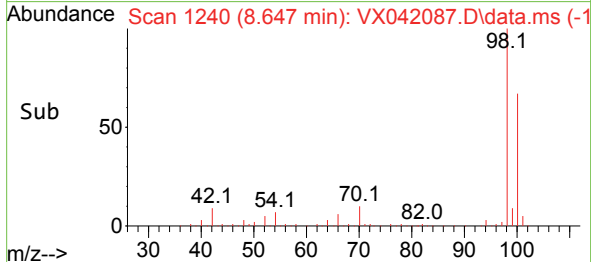
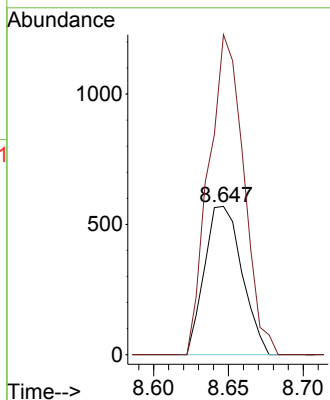
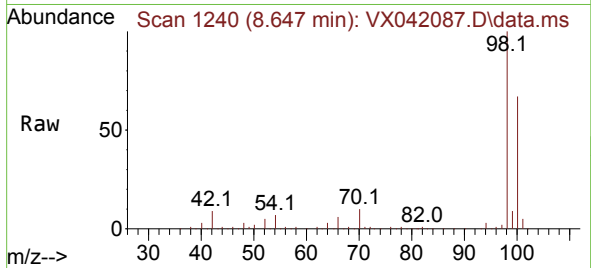




#51  
4-Methyl-2-Pentanone  
Concen: 0.422 ug/l  
RT: 8.647 min Scan# 11  
Delta R.T. 0.067 min  
Lab File: VX042087.D  
Acq: 28 Jun 2024 15:52

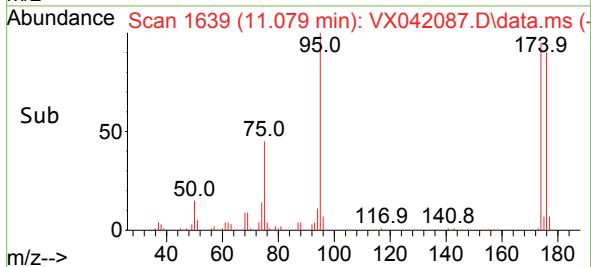
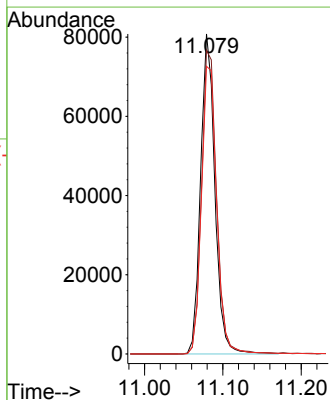
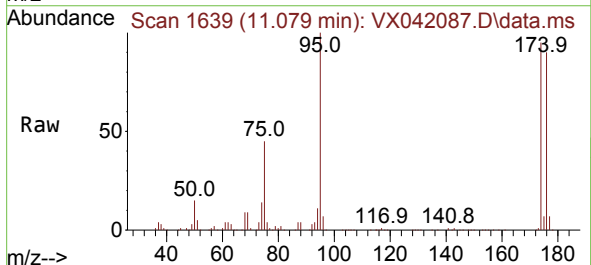
Instrument :  
MSVOA\_X  
ClientSampleId :

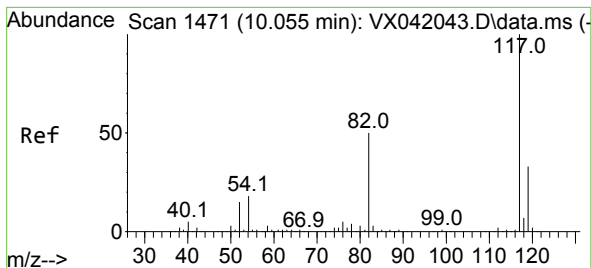
Tgt Ion: 43 Resp: 991  
Ion Ratio Lower Upper  
43 100  
58 201.6 30.4 45.6#



#62  
4-Bromofluorobenzene  
Concen: 49.319 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. -0.000 min  
Lab File: VX042087.D  
Acq: 28 Jun 2024 15:52

Tgt Ion: 95 Resp: 102448  
Ion Ratio Lower Upper  
95 100  
174 99.9 0.0 135.6  
176 96.2 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: VX042087.D

Acq: 28 Jun 2024 15:52

Instrument :

MSVOA\_X

ClientSampleId :

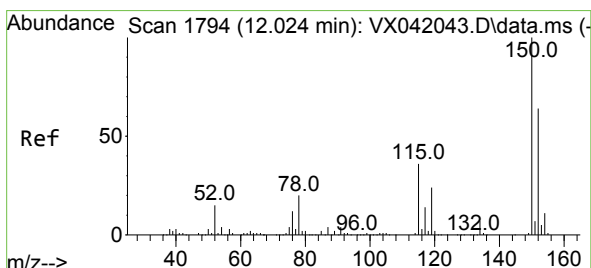
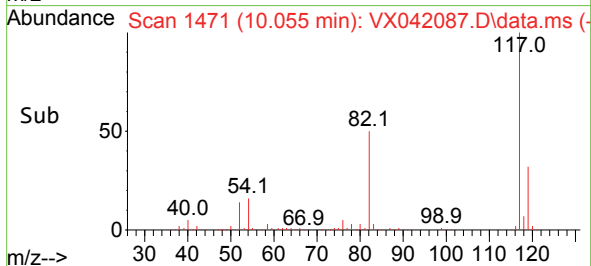
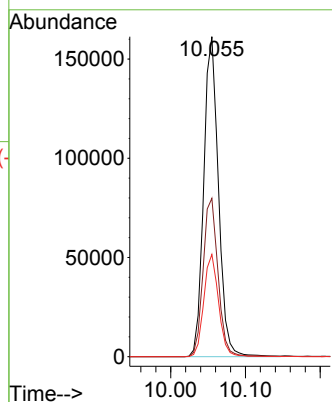
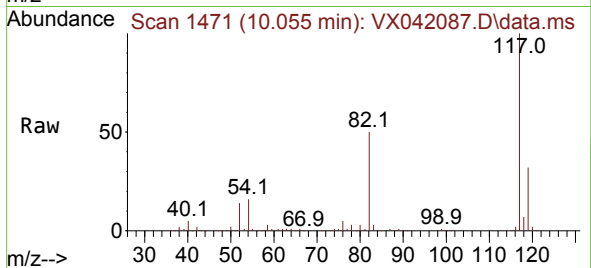
Tgt Ion:117 Resp: 220692

Ion Ratio Lower Upper

117 100

82 49.5 46.2 69.4

119 31.9 25.5 38.3



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.024 min Scan# 1794

Delta R.T. -0.000 min

Lab File: VX042087.D

Acq: 28 Jun 2024 15:52

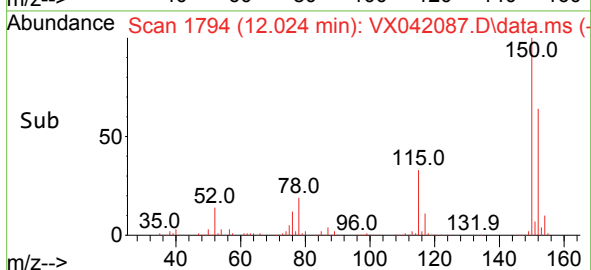
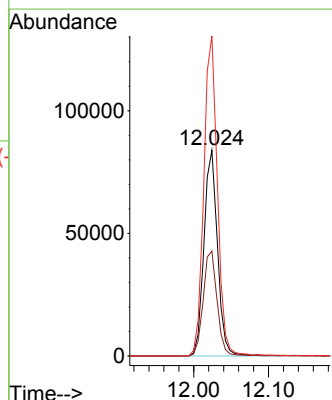
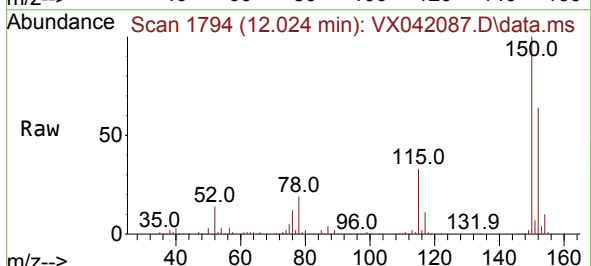
Tgt Ion:152 Resp: 105868

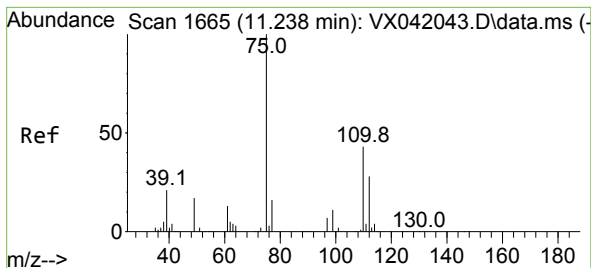
Ion Ratio Lower Upper

152 100

115 52.2 43.3 129.9

150 156.4 0.0 345.0





#76

1,2,3-Trichloropropane

Concen: 24.007 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. -0.159 min

Lab File: VX042087.D

Acq: 28 Jun 2024 15:52

Instrument :

MSVOA\_X

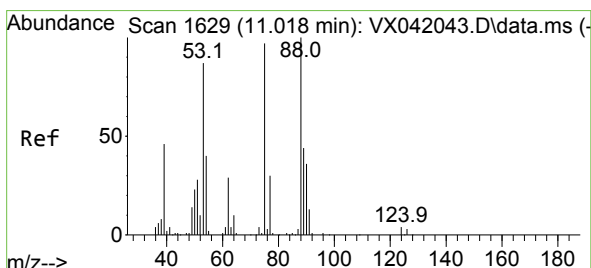
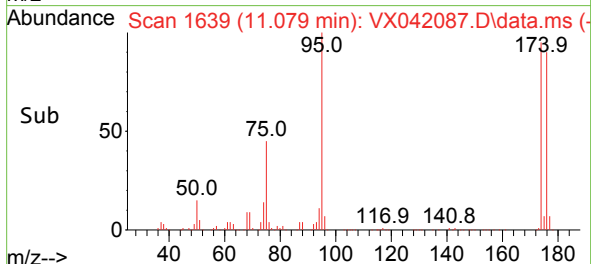
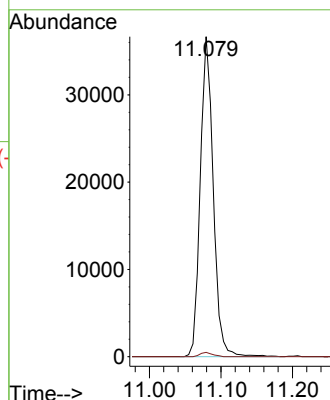
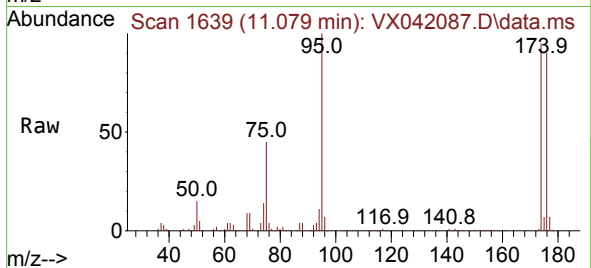
ClientSampleId :

Tgt Ion: 75 Resp: 46140

Ion Ratio Lower Upper

75 100

77 1.3 19.1 57.5#



#81

trans-1,4-Dichloro-2-butene

Concen: 68.178 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. 0.061 min

Lab File: VX042087.D

Acq: 28 Jun 2024 15:52

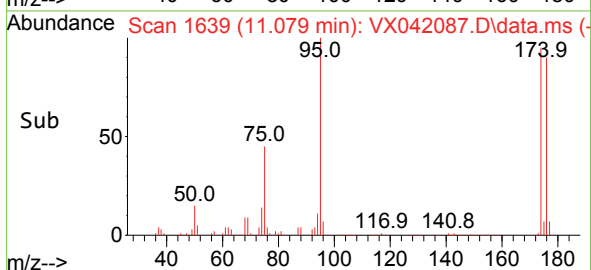
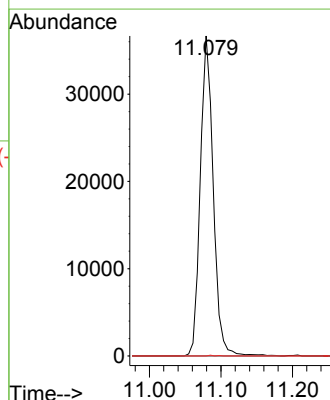
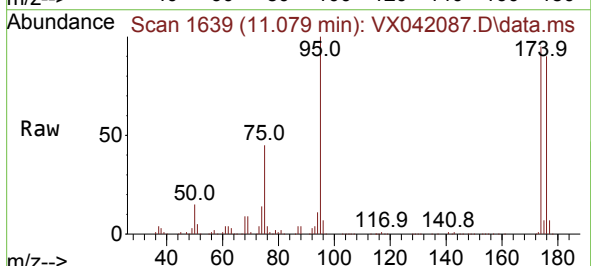
Tgt Ion: 75 Resp: 46140

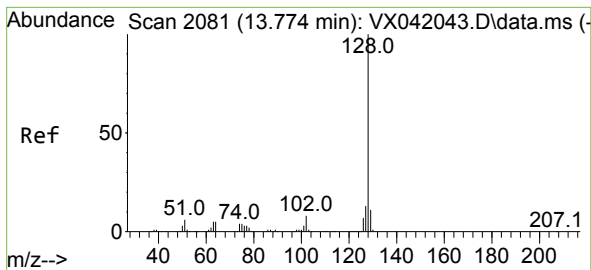
Ion Ratio Lower Upper

75 100

53 0.0 90.5 135.7#

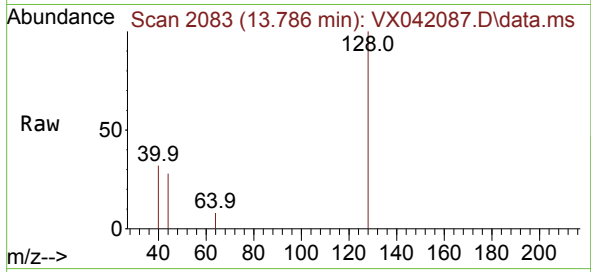
89 0.1 36.9 55.3#





#95  
Naphthalene  
Concen: 0.883 ug/l  
RT: 13.786 min Scan# 2083  
Delta R.T. 0.012 min  
Lab File: VX042087.D  
Acq: 28 Jun 2024 15:52

Instrument :  
MSVOA\_X  
ClientSampleId :



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 128   | Resp: | 1039  |
| Ion      | Ratio | Lower | Upper |
| 128      | 100   |       |       |
| 127      | 0.0   | 10.3  | 15.5# |
| 129      | 0.0   | 8.8   | 13.2# |

