

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX060324\  
 Data File : VX041698.D  
 Acq On : 03 Jun 2024 12:47  
 Operator : JC/MD  
 Sample : P2694-01 100X  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :

Quant Time: Jun 04 00:46:04 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X052924W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu May 30 07:36:24 2024  
 Response via : Initial Calibration

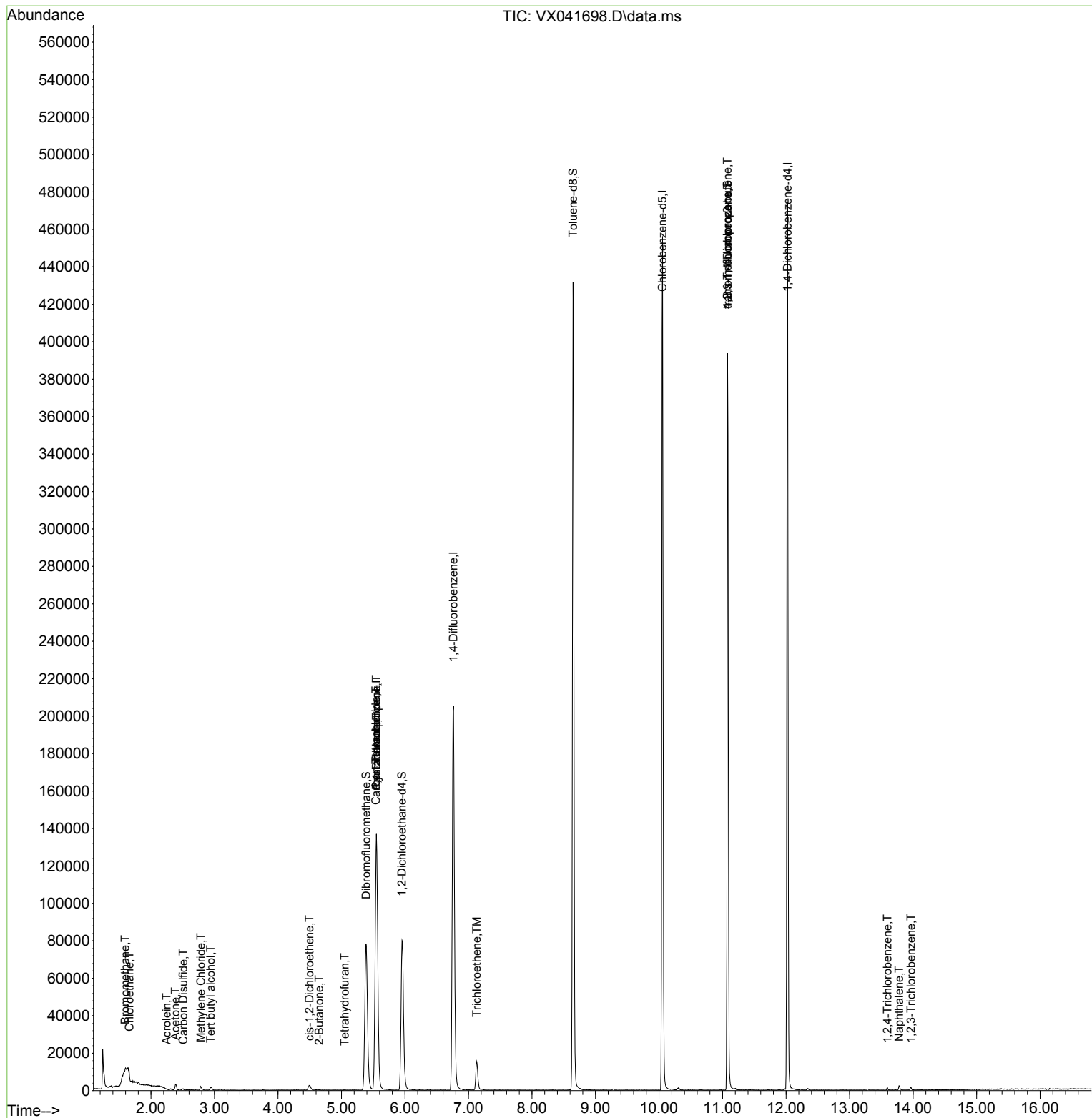
| Compound                      | R.T.           | QIon | Response   | Conc    | Units | Dev(Min) |
|-------------------------------|----------------|------|------------|---------|-------|----------|
| -----                         |                |      |            |         |       |          |
| Internal Standards            |                |      |            |         |       |          |
| 1) Pentafluorobenzene         | 5.550          | 168  | 143385     | 50.000  | ug/l  | # 0.00   |
| 34) 1,4-Difluorobenzene       | 6.763          | 114  | 219080     | 50.000  | ug/l  | 0.00     |
| 63) Chlorobenzene-d5          | 10.055         | 117  | 213157     | 50.000  | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.024         | 152  | 107048     | 50.000  | ug/l  | 0.00     |
| System Monitoring Compounds   |                |      |            |         |       |          |
| 33) 1,2-Dichloroethane-d4     | 5.952          | 65   | 80885      | 45.995  | ug/l  | 0.00     |
| Spiked Amount 50.000          | Range 78 - 117 |      | Recovery = | 91.980% |       |          |
| 35) Dibromofluoromethane      | 5.385          | 113  | 68337      | 45.116  | ug/l  | 0.00     |
| Spiked Amount 50.000          | Range 75 - 124 |      | Recovery = | 90.240% |       |          |
| 50) Toluene-d8                | 8.647          | 98   | 259553     | 49.041  | ug/l  | 0.00     |
| Spiked Amount 50.000          | Range 92 - 112 |      | Recovery = | 98.080% |       |          |
| 62) 4-Bromofluorobenzene      | 11.079         | 95   | 97021      | 49.668  | ug/l  | 0.00     |
| Spiked Amount 50.000          | Range 83 - 123 |      | Recovery = | 99.340% |       |          |
| Target Compounds              |                |      |            |         |       |          |
|                               |                |      |            |         |       | Qvalue   |
| 5) Bromomethane               | 1.593          | 94   | 433        | 0.439   | ug/l  | 83       |
| 6) Chloroethane               | 1.660          | 64   | 364        | 0.426   | ug/l  | # 74     |
| 11) Tert butyl alcohol        | 2.940          | 59   | 1105       | 3.552   | ug/l  | # 78     |
| 13) Acrolein                  | 2.245          | 56   | 94         | 0.325   | ug/l  | # 32     |
| 16) Acetone                   | 2.386          | 43   | 3250       | 1.520   | ug/l  | 92       |
| 17) Carbon Disulfide          | 2.508          | 76   | 848        | 0.300   | ug/l  | # 76     |
| 20) Methylene Chloride        | 2.788          | 84   | 973        | 0.618   | ug/l  | # 84     |
| 25) 2-Butanone                | 4.647          | 43   | 257        | 0.235   | ug/l  | # 51     |
| 27) cis-1,2-Dichloroethene    | 4.495          | 96   | 1848       | 1.166   | ug/l  | 83       |
| 29) Tetrahydrofuran           | 5.050          | 42   | 153        | 0.222   | ug/l  | # 34     |
| 31) Cyclohexane               | 5.550          | 56   | 2648       | 1.275   | ug/l  | # 1      |
| 36) 1,1-Dichloropropene       | 5.550          | 75   | 9368       | 5.108   | ug/l  | # 50     |
| 38) Carbon Tetrachloride      | 5.544          | 117  | 12554      | 6.025   | ug/l  | # 14     |
| 44) Trichloroethene           | 7.129          | 130  | 6819       | 4.374   | ug/l  | 87       |
| 76) 1,2,3-Trichloropropane    | 11.079         | 75   | 49364      | 26.429  | ug/l  | # 39     |
| 81) trans-1,4-Dichloro-2-b... | 11.079         | 75   | 49364      | 72.033  | ug/l  | # 5      |
| 93) 1,2,4-Trichlorobenzene    | 13.597         | 180  | 589        | 0.251   | ug/l  | # 89     |
| 95) Naphthalene               | 13.780         | 128  | 2395       | 0.345   | ug/l  | # 92     |
| 96) 1,2,3-Trichlorobenzene    | 13.969         | 180  | 579        | 0.239   | ug/l  | 89       |
| -----                         |                |      |            |         |       |          |

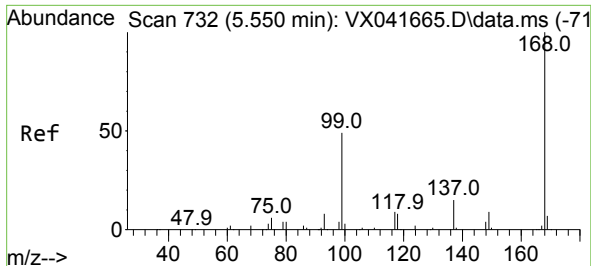
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Jun 04 00:46:04 2024  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X052924W.M  
Quant Title : SW846 8260  
QLast Update : Thu May 30 07:36:24 2024  
Response via : Initial Calibration

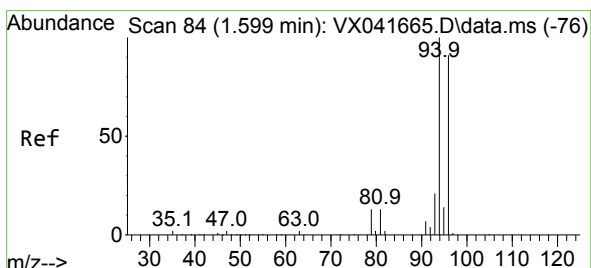
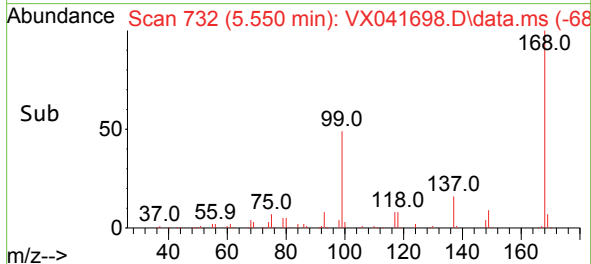
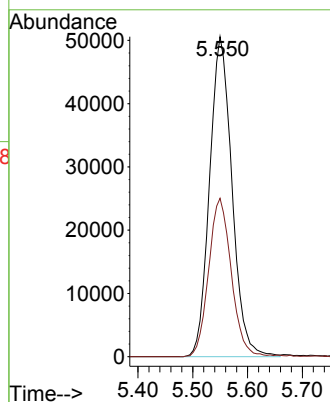
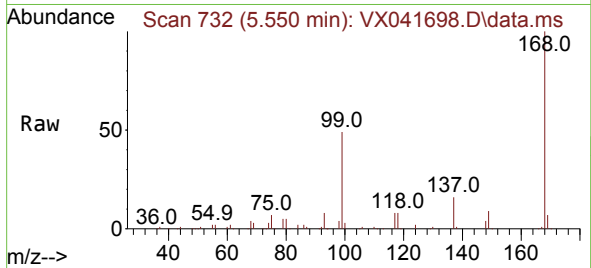




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.550 min Scan# 71  
Delta R.T. -0.000 min  
Lab File: VX041698.D  
Acq: 03 Jun 2024 12:47

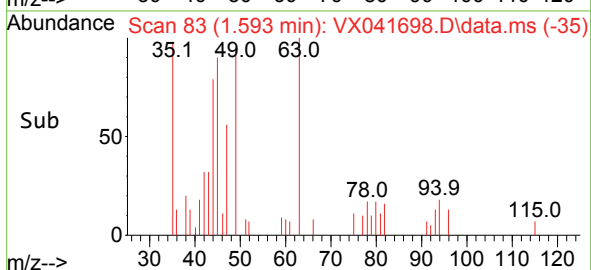
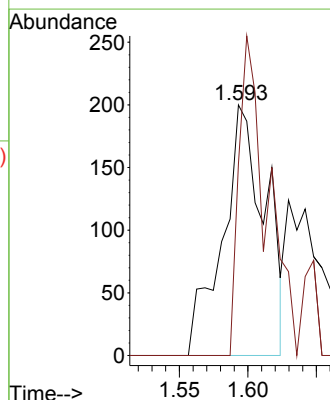
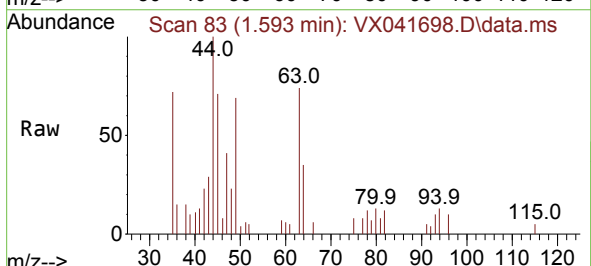
Instrument :  
MSVOA\_X  
ClientSampleId :

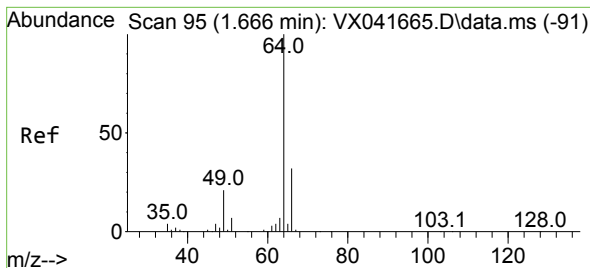
Tgt Ion:168 Resp: 143385  
Ion Ratio Lower Upper  
168 100  
99 49.5 56.6 85.0#



#5  
Bromomethane  
Concen: 0.439 ug/l  
RT: 1.593 min Scan# 83  
Delta R.T. -0.006 min  
Lab File: VX041698.D  
Acq: 03 Jun 2024 12:47

Tgt Ion: 94 Resp: 433  
Ion Ratio Lower Upper  
94 100  
96 76.5 74.6 111.8





#6

Chloroethane

Concen: 0.426 ug/l

RT: 1.660 min Scan# 94

Delta R.T. -0.006 min

Lab File: VX041698.D

Acq: 03 Jun 2024 12:47

Instrument :

MSVOA\_X

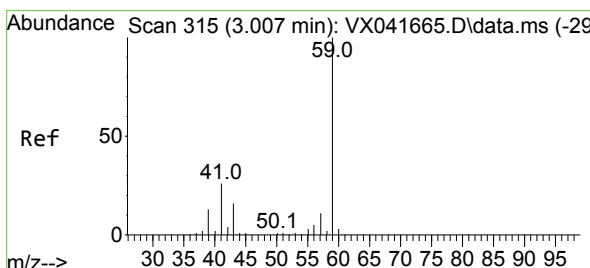
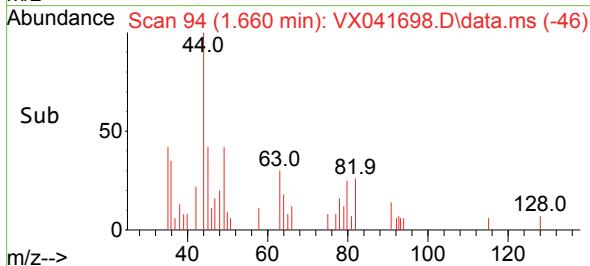
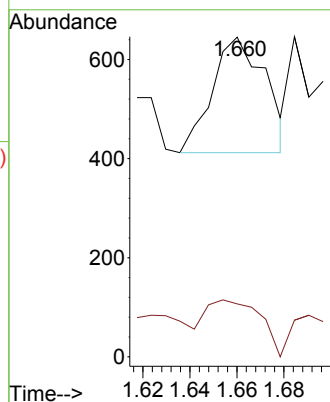
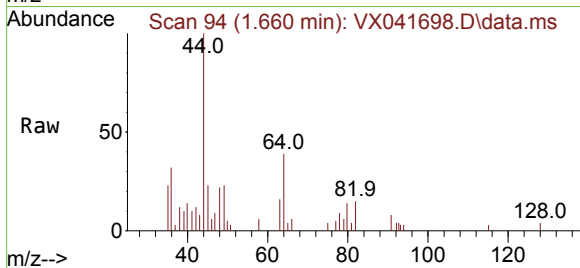
ClientSampleId :

Tgt Ion: 64 Resp: 364

Ion Ratio Lower Upper

64 100

66 45.9 25.1 37.7#



#11

Tert butyl alcohol

Concen: 3.552 ug/l

RT: 2.940 min Scan# 304

Delta R.T. -0.067 min

Lab File: VX041698.D

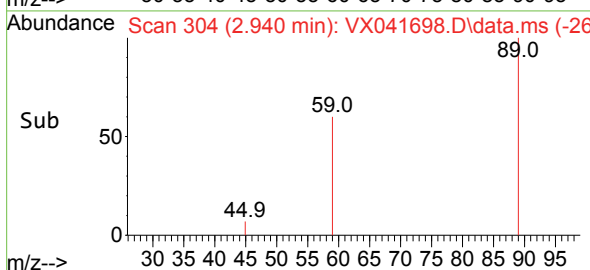
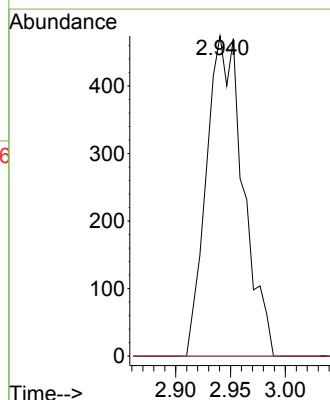
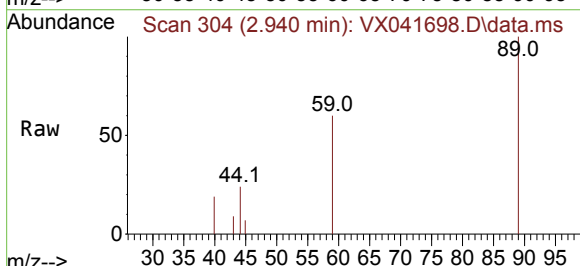
Acq: 03 Jun 2024 12:47

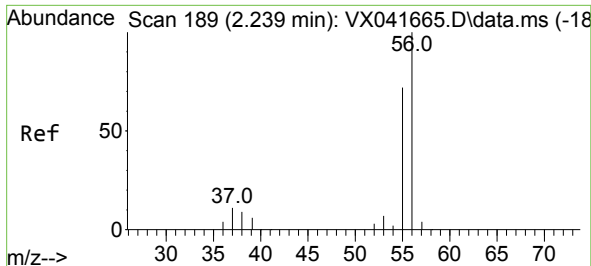
Tgt Ion: 59 Resp: 1105

Ion Ratio Lower Upper

59 100

57 0.0 6.0 9.0#





#13

Acrolein

Concen: 0.325 ug/l

RT: 2.245 min Scan# 190

Delta R.T. 0.006 min

Lab File: VX041698.D

Acq: 03 Jun 2024 12:47

Instrument :

MSVOA\_X

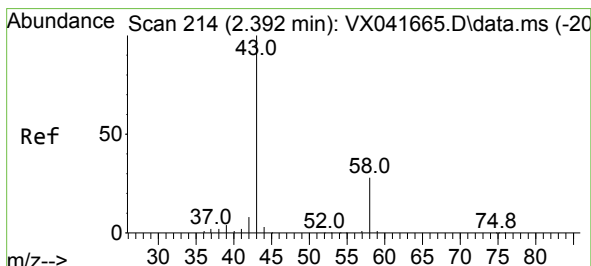
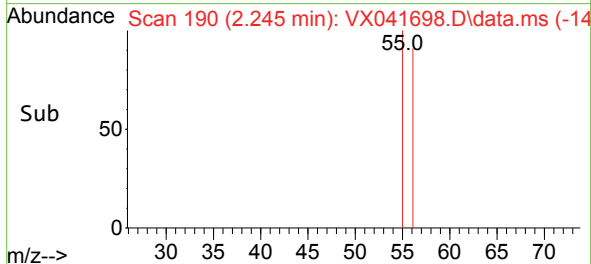
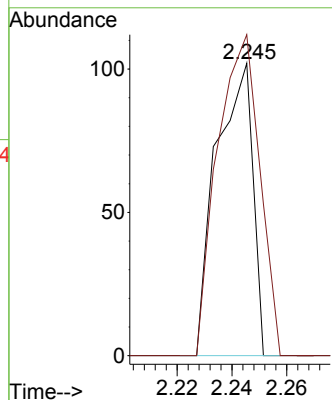
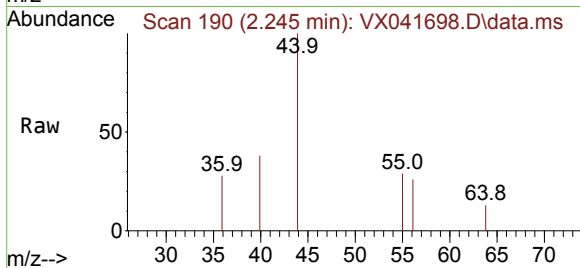
ClientSampleId :

Tgt Ion: 56 Resp: 94

Ion Ratio Lower Upper

56 100

55 127.7 57.1 85.7#



#16

Acetone

Concen: 1.520 ug/l

RT: 2.386 min Scan# 213

Delta R.T. -0.006 min

Lab File: VX041698.D

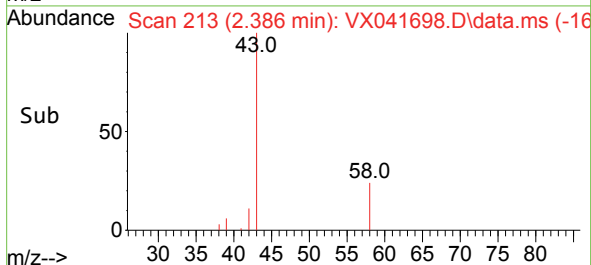
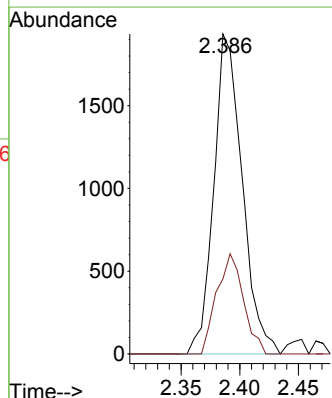
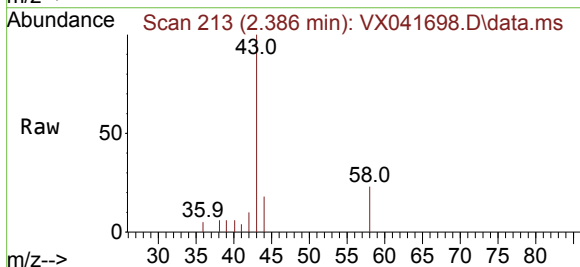
Acq: 03 Jun 2024 12:47

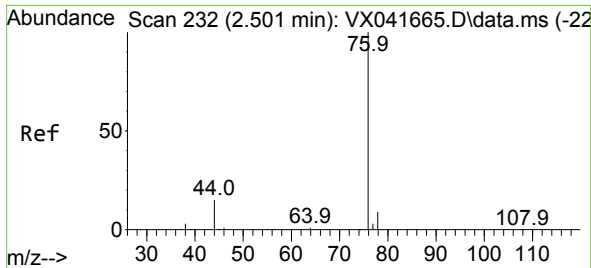
Tgt Ion: 43 Resp: 3250

Ion Ratio Lower Upper

43 100

58 23.4 21.9 32.9





#17

Carbon Disulfide

Concen: 0.300 ug/l

RT: 2.508 min Scan# 21

Delta R.T. 0.006 min

Lab File: VX041698.D

Acq: 03 Jun 2024 12:47

Instrument :

MSVOA\_X

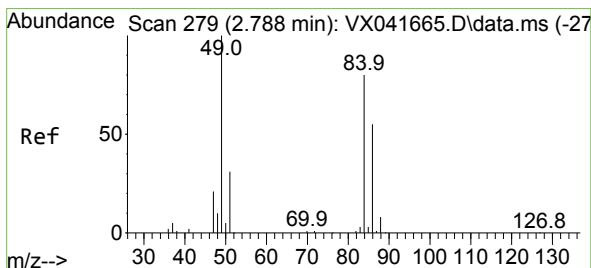
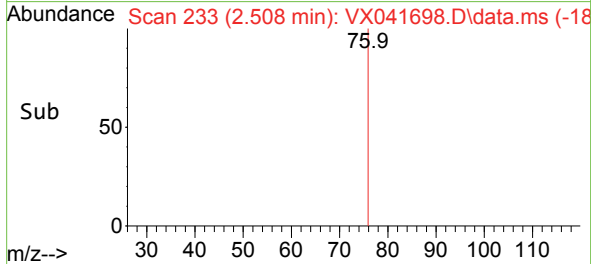
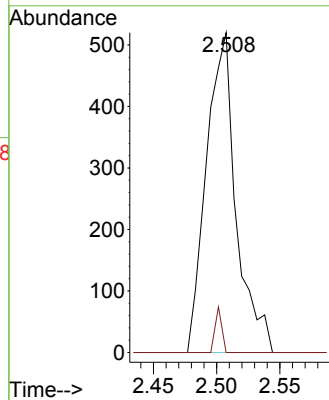
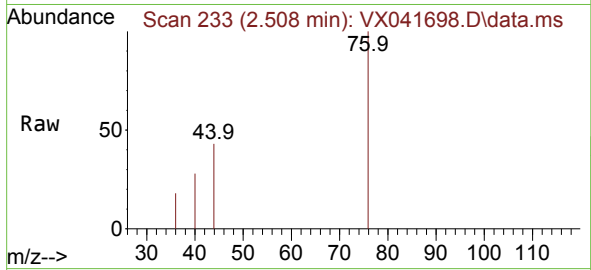
ClientSampleId :

Tgt Ion: 76 Resp: 848

Ion Ratio Lower Upper

76 100

78 0.0 7.0 10.6#



#20

Methylene Chloride

Concen: 0.618 ug/l

RT: 2.788 min Scan# 279

Delta R.T. 0.000 min

Lab File: VX041698.D

Acq: 03 Jun 2024 12:47

Tgt Ion: 84 Resp: 973

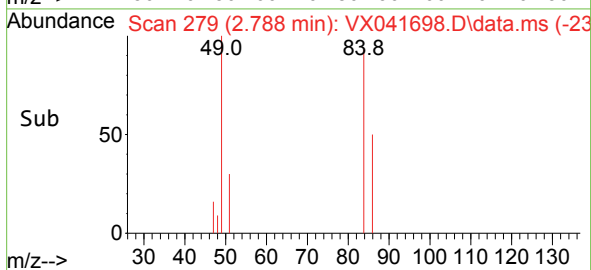
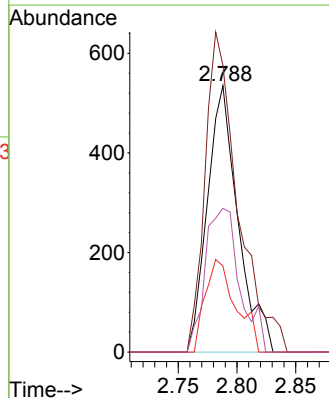
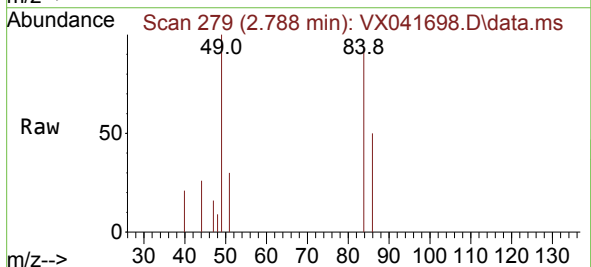
Ion Ratio Lower Upper

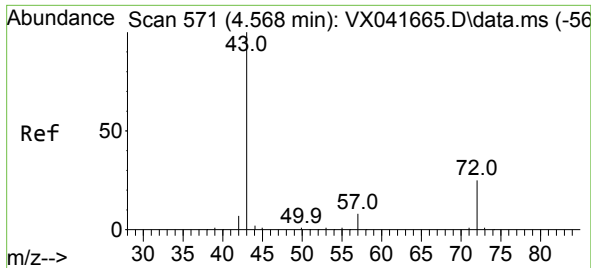
84 100

49 107.7 103.6 155.4

51 32.3 33.8 50.6#

86 54.0 49.4 74.0

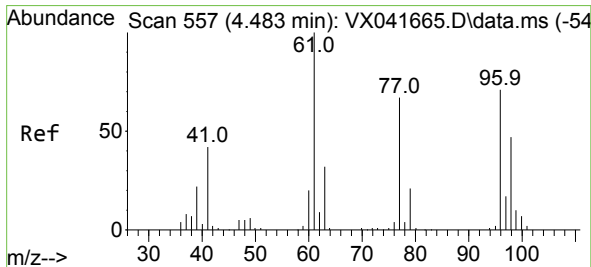
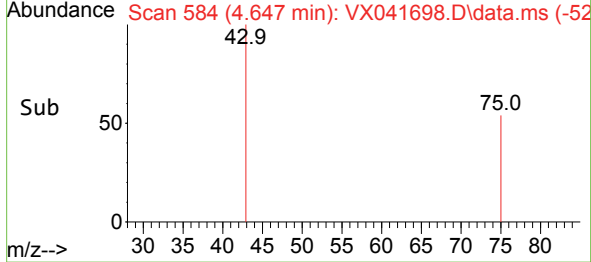
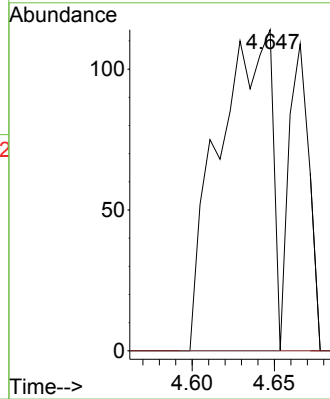
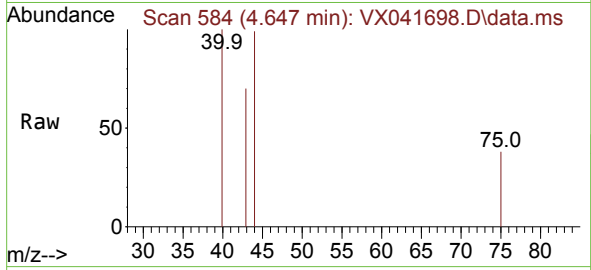




#25  
2-Butanone  
Concen: 0.235 ug/l  
RT: 4.647 min Scan# 51  
Delta R.T. 0.079 min  
Lab File: VX041698.D  
Acq: 03 Jun 2024 12:47

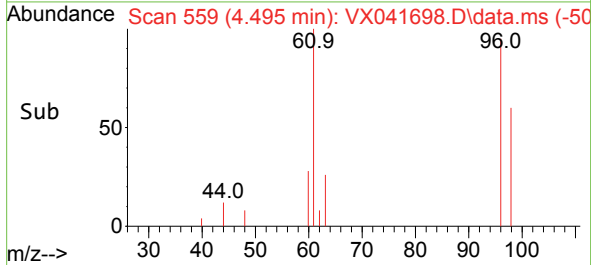
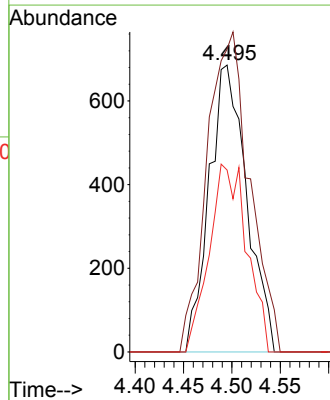
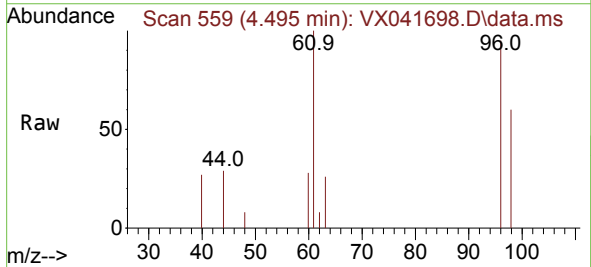
Instrument :  
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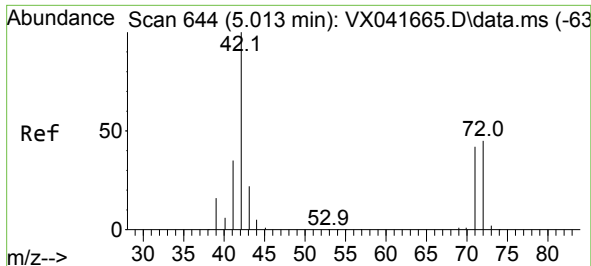
Tgt Ion: 43 Resp: 257  
Ion Ratio Lower Upper  
43 100  
72 0.0 19.4 29.2#



#27  
cis-1,2-Dichloroethene  
Concen: 1.166 ug/l  
RT: 4.495 min Scan# 559  
Delta R.T. 0.012 min  
Lab File: VX041698.D  
Acq: 03 Jun 2024 12:47

Tgt Ion: 96 Resp: 1848  
Ion Ratio Lower Upper  
96 100  
61 126.3 0.0 312.2  
98 65.7 0.0 129.0





#29

Tetrahydrofuran

Concen: 0.222 ug/l

RT: 5.050 min Scan# 61

Delta R.T. 0.037 min

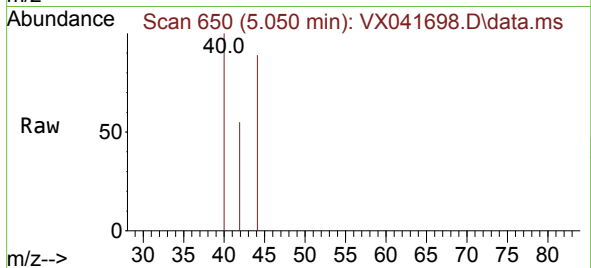
Lab File: VX041698.D

Acq: 03 Jun 2024 12:47

Instrument :

MSVOA\_X

ClientSampleId :



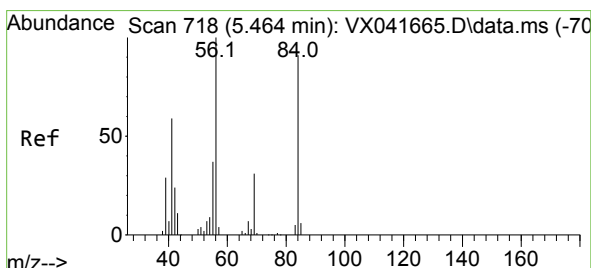
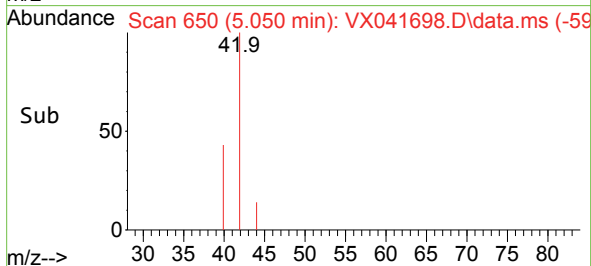
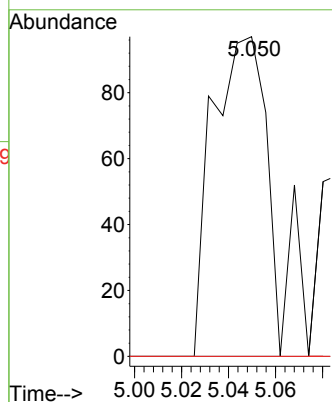
Tgt Ion: 42 Resp: 153

Ion Ratio Lower Upper

42 100

72 0.0 34.2 51.4#

71 0.0 32.2 48.2#



#31

Cyclohexane

Concen: 1.275 ug/l

RT: 5.550 min Scan# 732

Delta R.T. 0.085 min

Lab File: VX041698.D

Acq: 03 Jun 2024 12:47

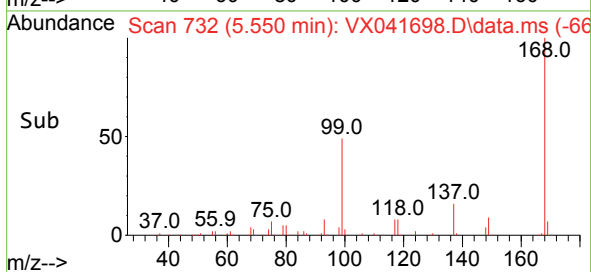
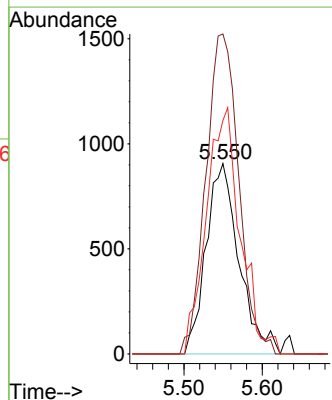
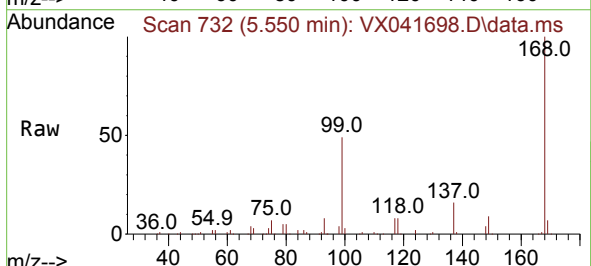
Tgt Ion: 56 Resp: 2648

Ion Ratio Lower Upper

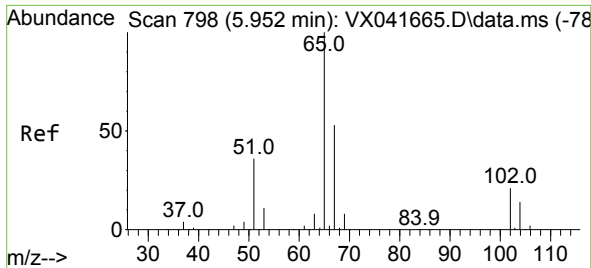
56 100

69 168.1 23.4 35.2#

84 122.6 65.9 98.9#



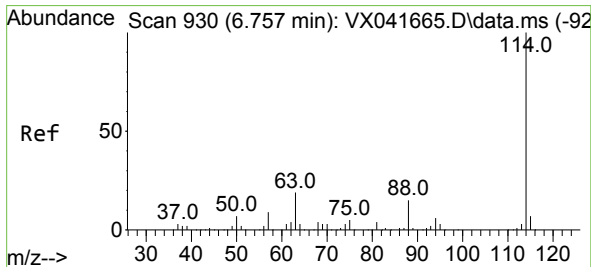
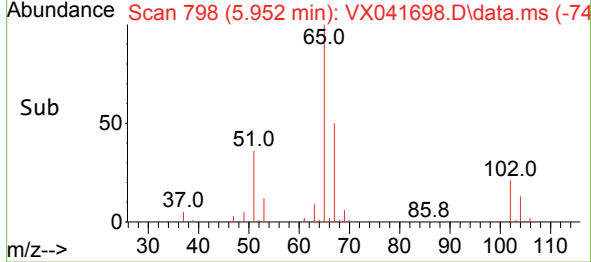
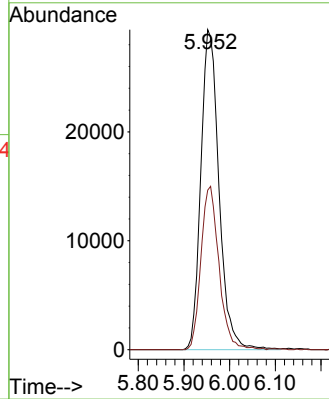
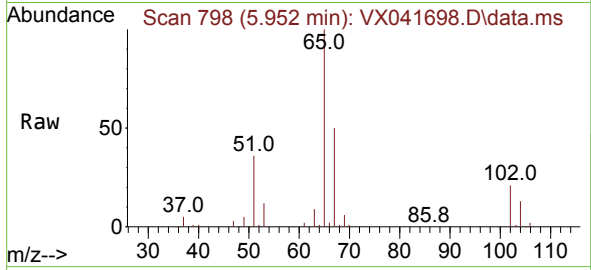




#33  
 1,2-Dichloroethane-d4  
 Concen: 45.995 ug/l  
 RT: 5.952 min Scan# 798  
 Delta R.T. 0.000 min  
 Lab File: VX041698.D  
 Acq: 03 Jun 2024 12:47

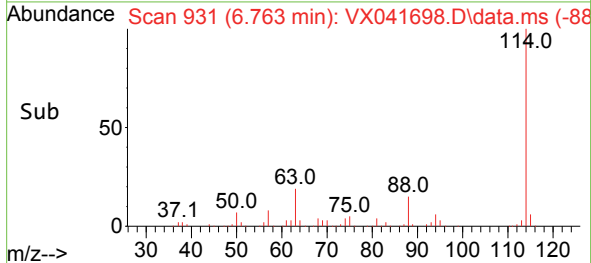
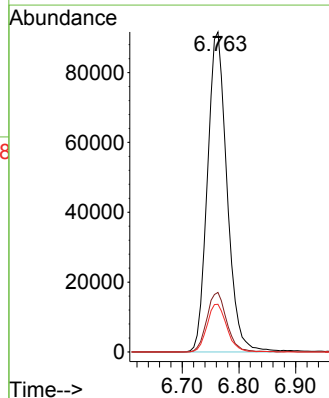
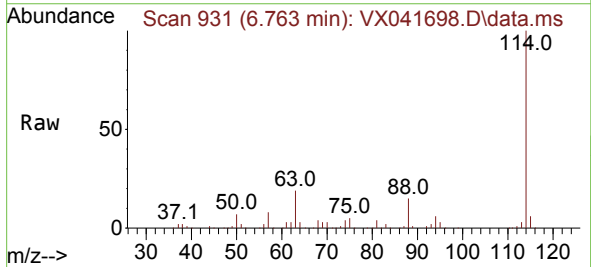
Instrument :  
 MSVOA\_X  
 ClientSampleId :

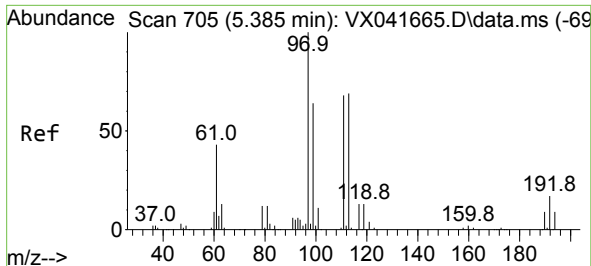
Tgt Ion: 65 Resp: 80885  
 Ion Ratio Lower Upper  
 65 100  
 67 50.8 0.0 100.2



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 6.763 min Scan# 931  
 Delta R.T. 0.006 min  
 Lab File: VX041698.D  
 Acq: 03 Jun 2024 12:47

Tgt Ion: 114 Resp: 219080  
 Ion Ratio Lower Upper  
 114 100  
 63 18.6 0.0 45.0  
 88 14.9 0.0 36.6

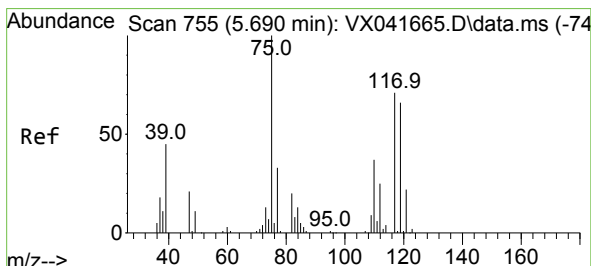
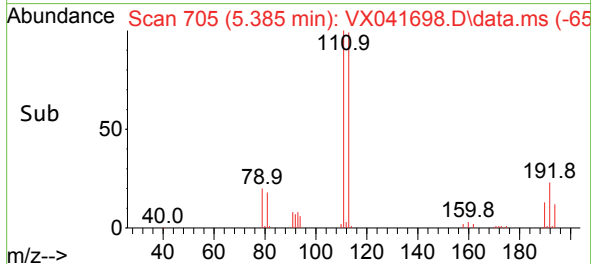
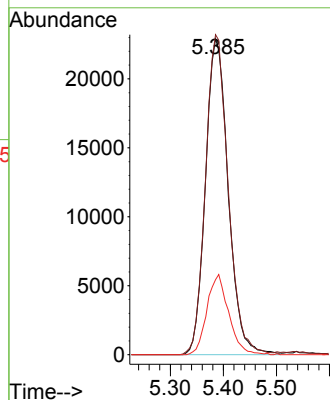
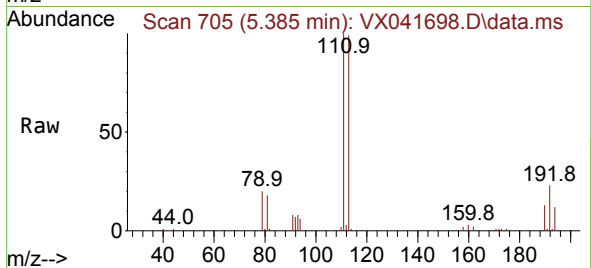




#35  
Dibromofluoromethane  
Concen: 45.116 ug/l  
RT: 5.385 min Scan# 705  
Delta R.T. -0.000 min  
Lab File: VX041698.D  
Acq: 03 Jun 2024 12:47

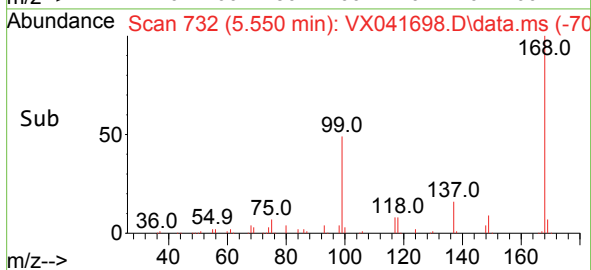
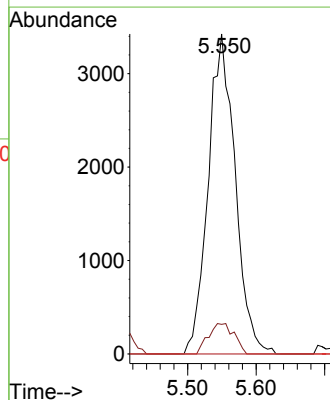
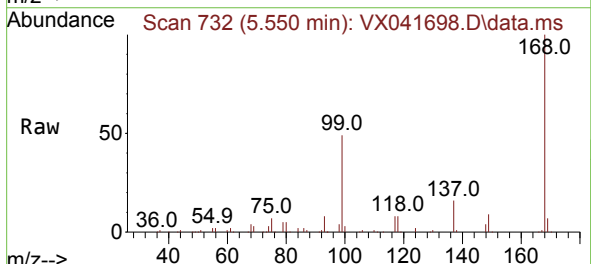
Instrument :  
MSVOA\_X  
ClientSampleId :

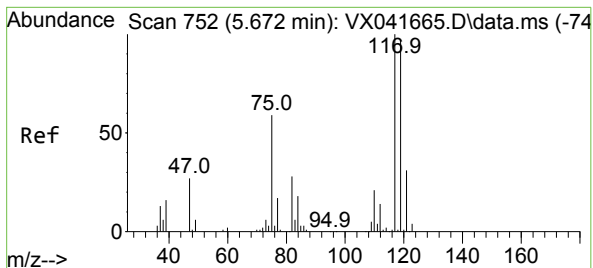
Tgt Ion:113 Resp: 68337  
Ion Ratio Lower Upper  
113 100  
111 101.1 82.9 124.3  
192 24.3 13.3 19.9#



#36  
1,1-Dichloropropene  
Concen: 5.108 ug/l  
RT: 5.550 min Scan# 732  
Delta R.T. -0.140 min  
Lab File: VX041698.D  
Acq: 03 Jun 2024 12:47

Tgt Ion: 75 Resp: 9368  
Ion Ratio Lower Upper  
75 100  
110 9.1 17.0 50.9#  
77 0.0 24.7 37.1#





#38

Carbon Tetrachloride

Concen: 6.025 ug/l

RT: 5.544 min Scan# 71

Delta R.T. -0.128 min

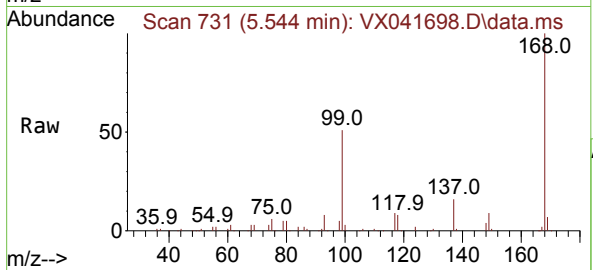
Lab File: VX041698.D

Acq: 03 Jun 2024 12:47

Instrument :

MSVOA\_X

ClientSampleId :



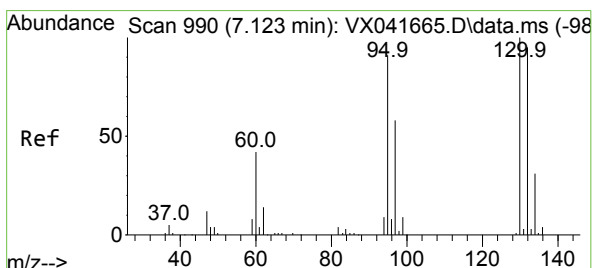
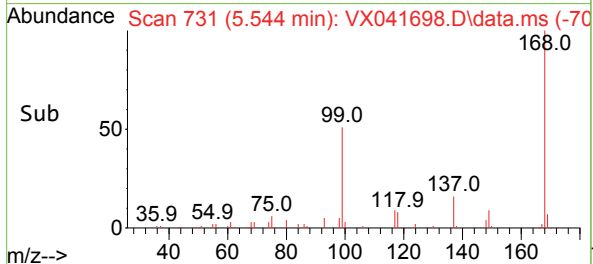
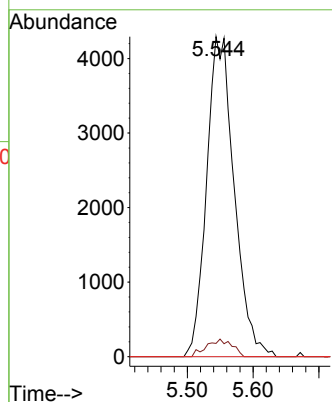
Tgt Ion:117 Resp: 12554

Ion Ratio Lower Upper

117 100

119 4.1 78.2 117.2#

121 0.0 24.4 36.6#



#44

Trichloroethene

Concen: 4.374 ug/l

RT: 7.129 min Scan# 991

Delta R.T. 0.006 min

Lab File: VX041698.D

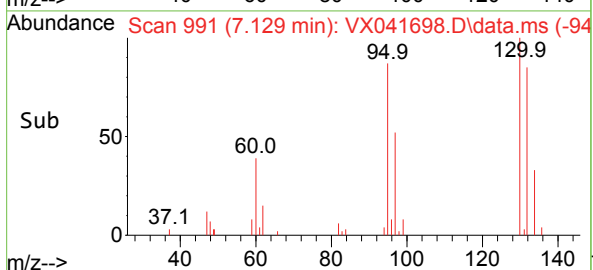
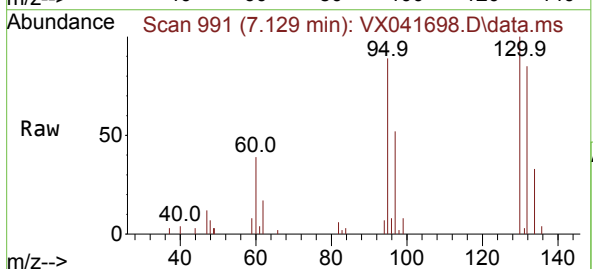
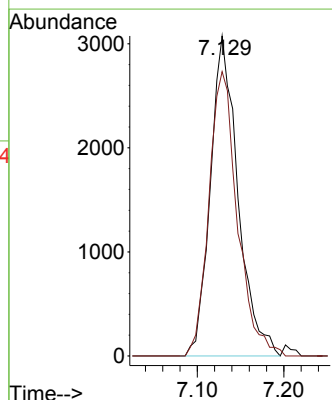
Acq: 03 Jun 2024 12:47

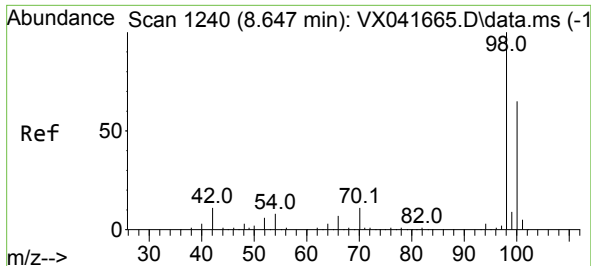
Tgt Ion:130 Resp: 6819

Ion Ratio Lower Upper

130 100

95 88.8 0.0 204.4

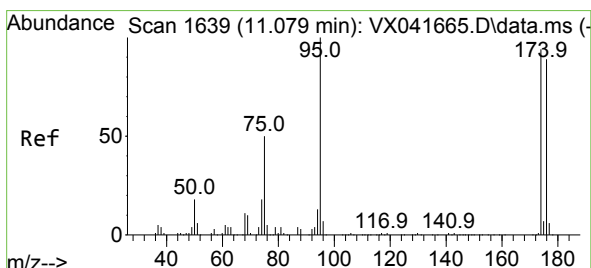
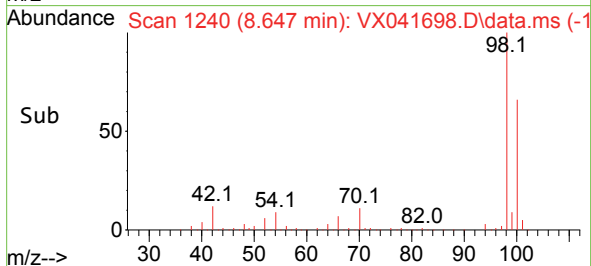
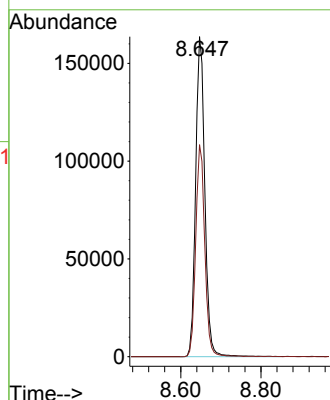
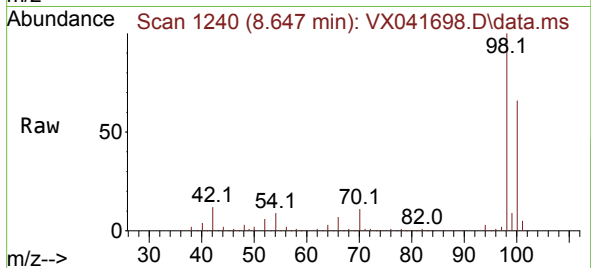




#50  
Toluene-d8  
Concen: 49.041 ug/l  
RT: 8.647 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VX041698.D  
Acq: 03 Jun 2024 12:47

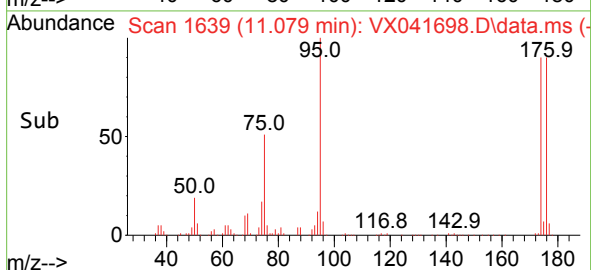
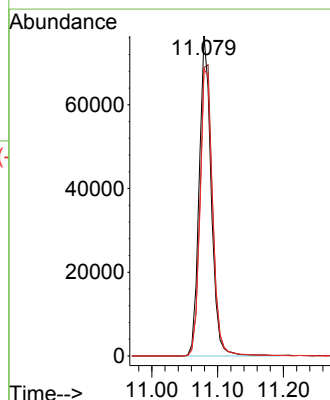
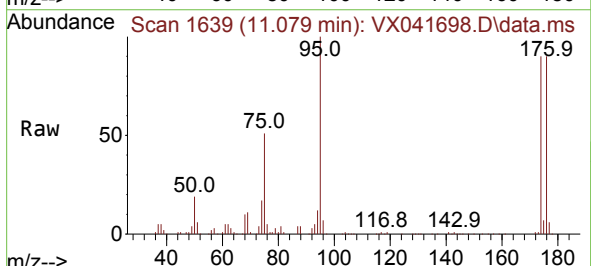
Instrument :  
MSVOA\_X  
ClientSampleId :

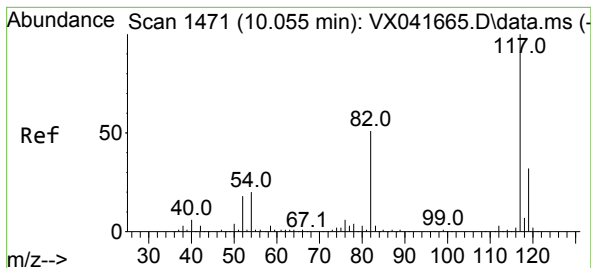
Tgt Ion: 98 Resp: 259553  
Ion Ratio Lower Upper  
98 100  
100 65.5 53.1 79.7



#62  
4-Bromofluorobenzene  
Concen: 49.668 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. -0.000 min  
Lab File: VX041698.D  
Acq: 03 Jun 2024 12:47

Tgt Ion: 95 Resp: 97021  
Ion Ratio Lower Upper  
95 100  
174 96.4 0.0 135.6  
176 94.1 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: VX041698.D

Acq: 03 Jun 2024 12:47

Instrument :

MSVOA\_X

ClientSampleId :

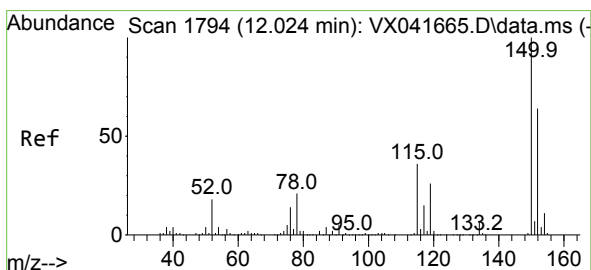
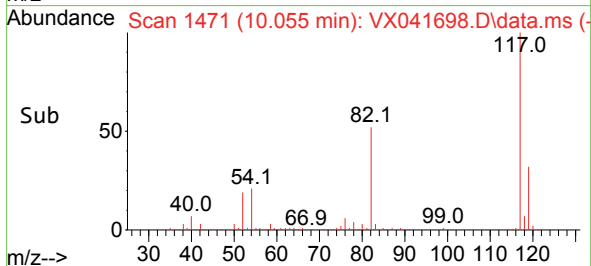
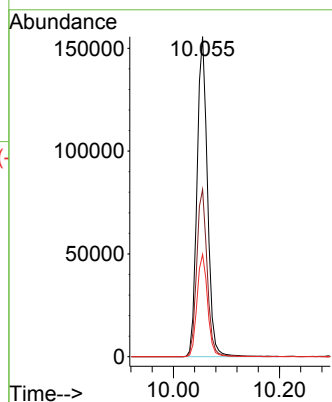
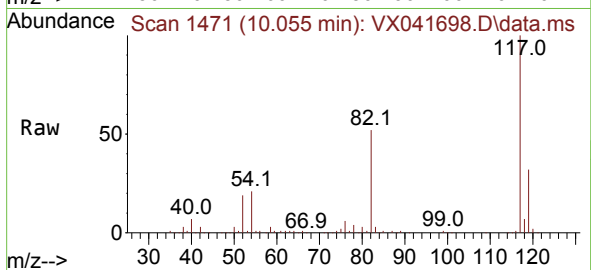
Tgt Ion:117 Resp: 213157

Ion Ratio Lower Upper

117 100

82 52.3 46.2 69.4

119 32.0 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: VX041698.D

Acq: 03 Jun 2024 12:47

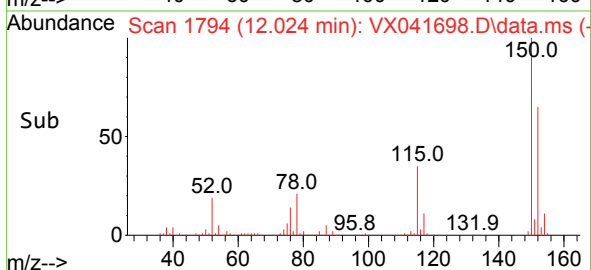
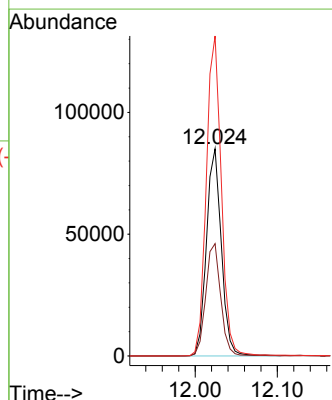
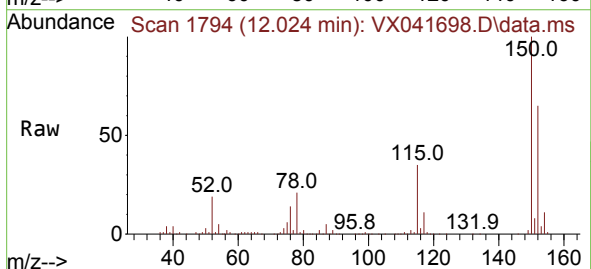
Tgt Ion:152 Resp: 107048

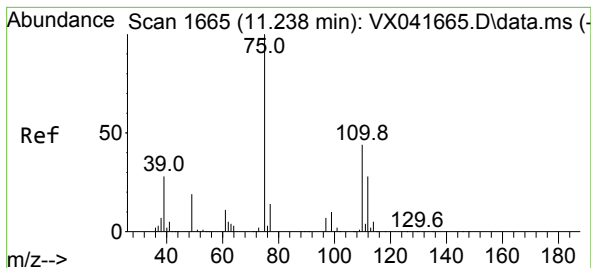
Ion Ratio Lower Upper

152 100

115 54.6 43.3 129.9

150 156.3 0.0 345.0





#76

1,2,3-Trichloropropane

Concen: 26.429 ug/l

RT: 11.079 min Scan# 1

Delta R.T. -0.159 min

Lab File: VX041698.D

Acq: 03 Jun 2024 12:47

Instrument :

MSVOA\_X

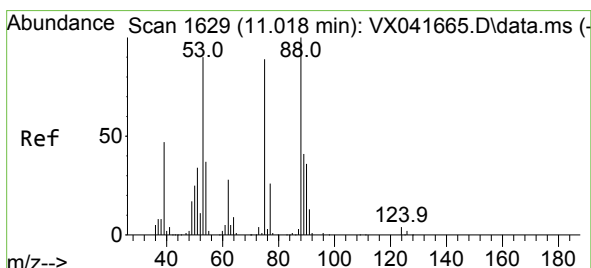
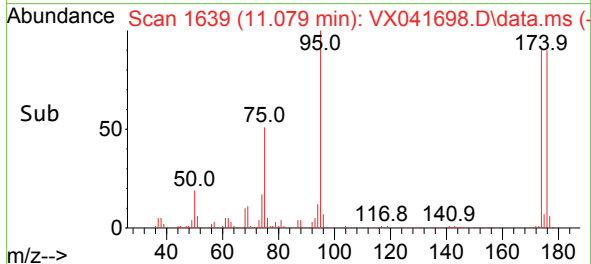
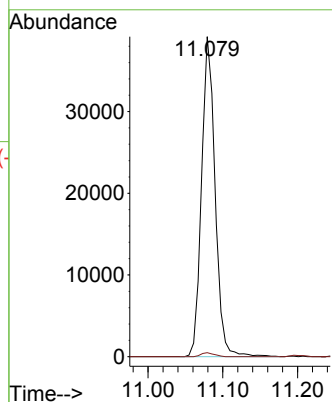
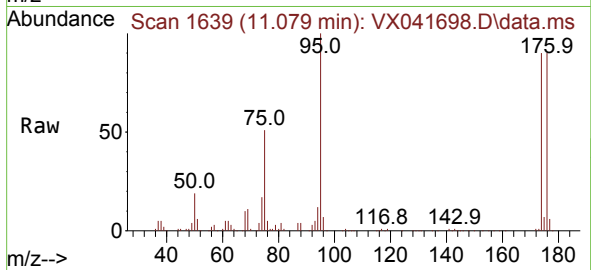
ClientSampleId :

Tgt Ion: 75 Resp: 49364

Ion Ratio Lower Upper

75 100

77 1.2 19.1 57.5#



#81

trans-1,4-Dichloro-2-butene

Concen: 72.033 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. 0.061 min

Lab File: VX041698.D

Acq: 03 Jun 2024 12:47

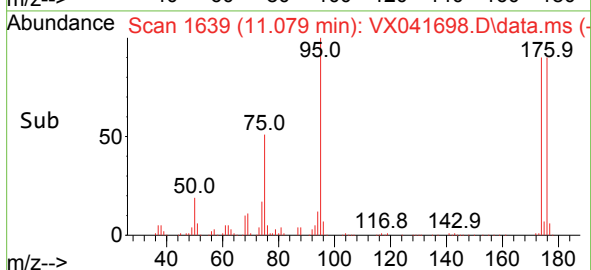
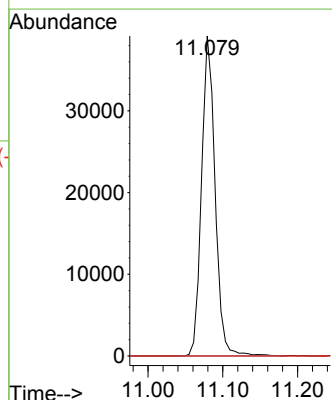
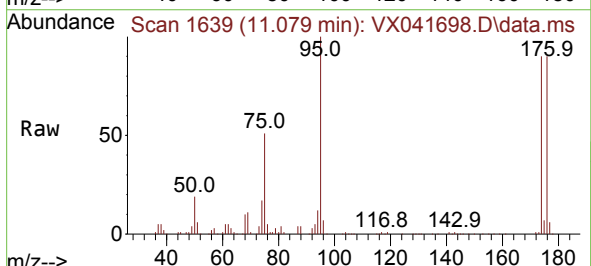
Tgt Ion: 75 Resp: 49364

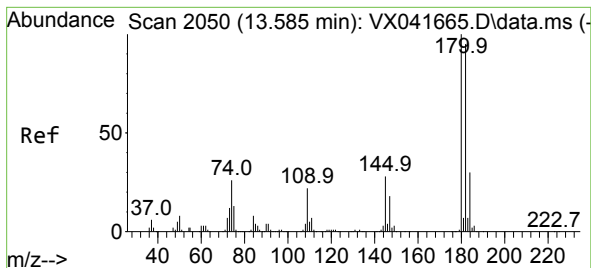
Ion Ratio Lower Upper

75 100

53 0.0 90.5 135.7#

89 0.0 36.9 55.3#





#93

1,2,4-Trichlorobenzene

Concen: 0.251 ug/l

RT: 13.597 min Scan# 2050

Delta R.T. 0.012 min

Lab File: VX041698.D

Acq: 03 Jun 2024 12:47

Instrument :

MSVOA\_X

ClientSampleId :

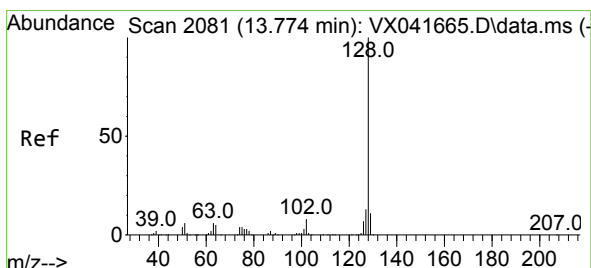
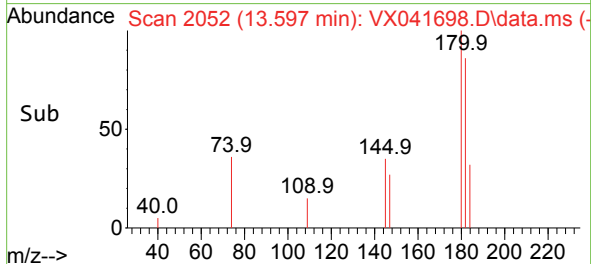
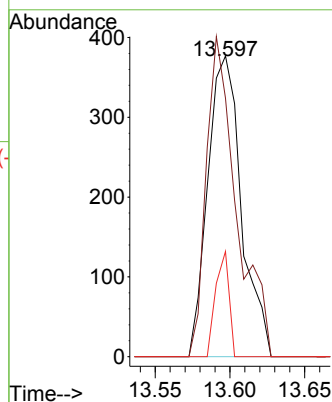
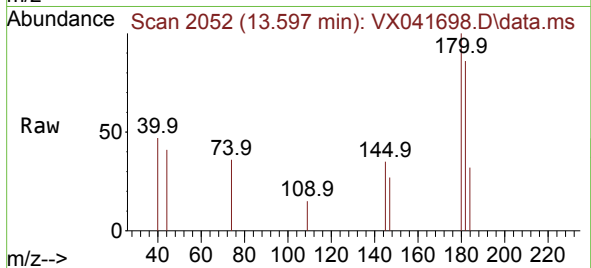
Tgt Ion:180 Resp: 589

Ion Ratio Lower Upper

180 100

182 95.6 48.3 144.8

145 13.9 18.0 54.0#



#95

Naphthalene

Concen: 0.345 ug/l

RT: 13.780 min Scan# 2082

Delta R.T. 0.006 min

Lab File: VX041698.D

Acq: 03 Jun 2024 12:47

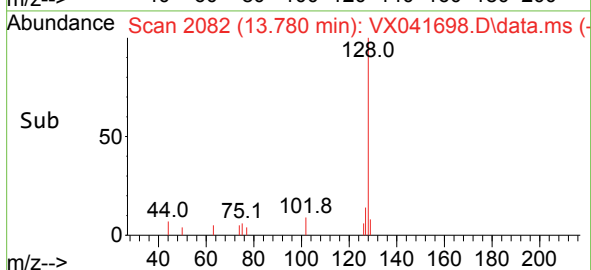
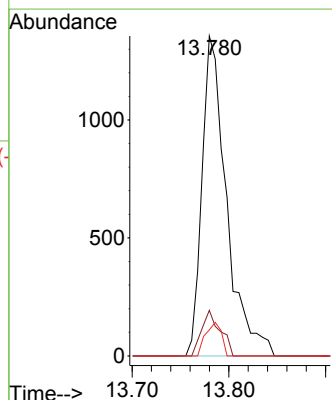
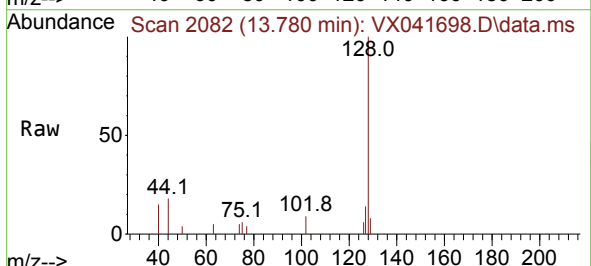
Tgt Ion:128 Resp: 2395

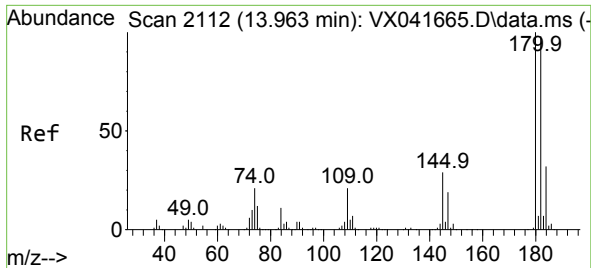
Ion Ratio Lower Upper

128 100

127 10.8 10.3 15.5

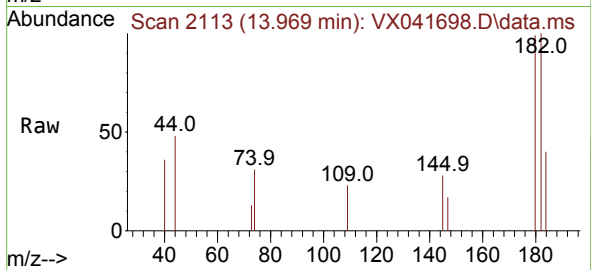
129 6.8 8.8 13.2#





#96  
 1,2,3-Trichlorobenzene  
 Concen: 0.239 ug/l  
 RT: 13.969 min Scan# 21  
 Delta R.T. 0.006 min  
 Lab File: VX041698.D  
 Acq: 03 Jun 2024 12:47

Instrument :  
 MSVOA\_X  
 ClientSampleId :



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 180   | Resp: | 579   |
| Ion      | Ratio | Lower | Upper |
| 180      | 100   |       |       |
| 182      | 105.9 | 46.9  | 140.6 |
| 145      | 30.9  | 17.8  | 53.5  |

