

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX080824\  
 Data File : VX042947.D  
 Acq On : 08 Aug 2024 12:18  
 Operator : JC/MD  
 Sample : PB162548ZHE#01  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :

Quant Time: Aug 09 04:42:26 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

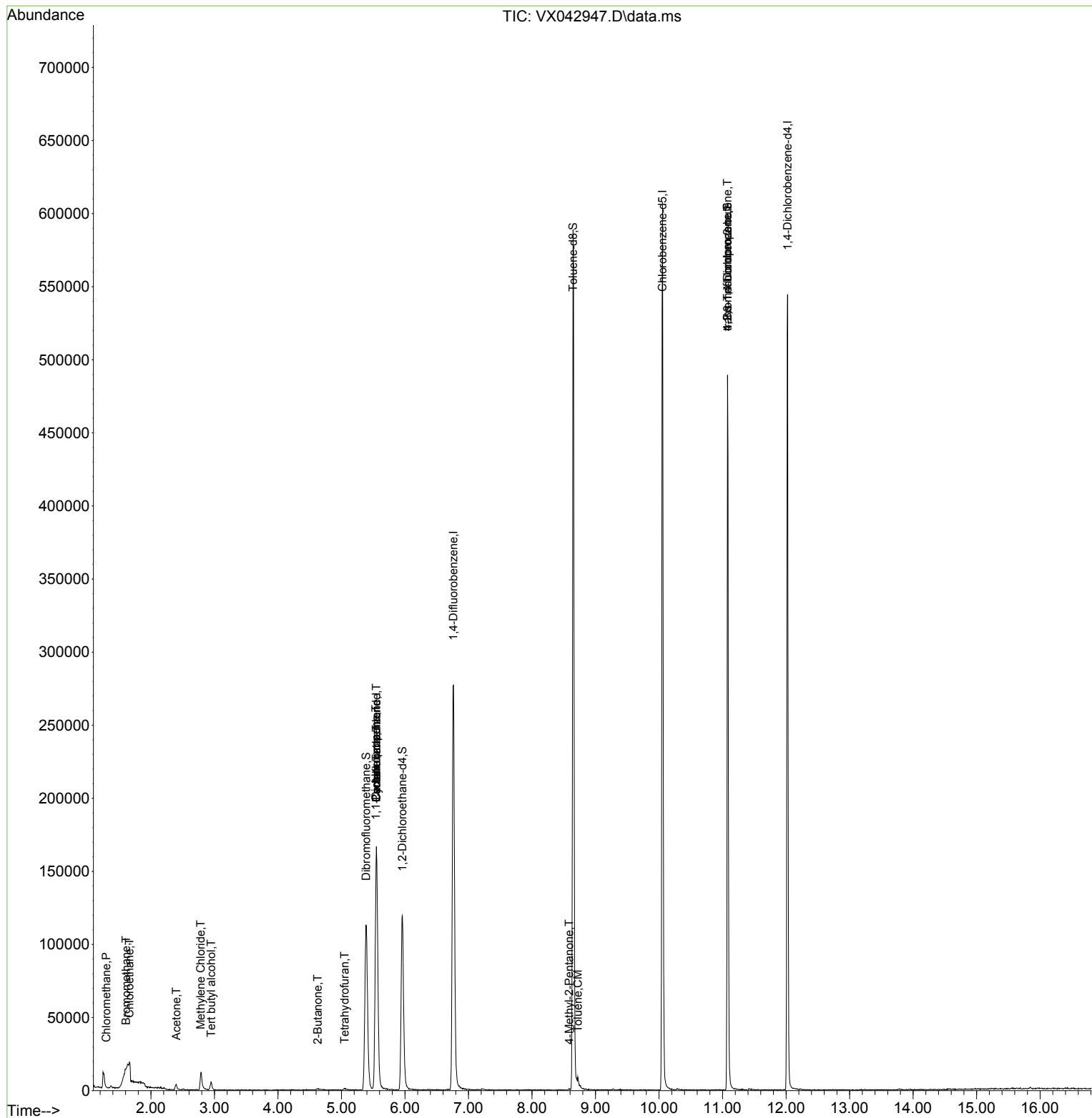
| Compound                      | R.T.   | QIon  | Response | Conc     | Units      | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|------------|----------|
| -----                         |        |       |          |          |            |          |
| Internal Standards            |        |       |          |          |            |          |
| 1) Pentafluorobenzene         | 5.550  | 168   | 156133   | 50.000   | ug/l       | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.763  | 114   | 299951   | 50.000   | ug/l       | 0.00     |
| 63) Chlorobenzene-d5          | 10.055 | 117   | 286772   | 50.000   | ug/l       | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.024 | 152   | 117856   | 50.000   | ug/l       | 0.00     |
| System Monitoring Compounds   |        |       |          |          |            |          |
| 33) 1,2-Dichloroethane-d4     | 5.958  | 65    | 121278   | 56.582   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 78 - 117 | Recovery | = 113.160% |          |
| 35) Dibromofluoromethane      | 5.385  | 113   | 104406   | 53.235   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 75 - 124 | Recovery | = 106.480% |          |
| 50) Toluene-d8                | 8.647  | 98    | 362587   | 52.078   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 92 - 112 | Recovery | = 104.160% |          |
| 62) 4-Bromofluorobenzene      | 11.079 | 95    | 130638   | 52.215   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 83 - 123 | Recovery | = 104.440% |          |
| Target Compounds              |        |       |          |          |            |          |
|                               |        |       |          |          | Qvalue     |          |
| 3) Chloromethane              | 1.294  | 50    | 443      | 0.242    | ug/l #     | 43       |
| 5) Bromomethane               | 1.605  | 94    | 1233     | 1.171    | ug/l #     | 46       |
| 6) Chloroethane               | 1.660  | 64    | 348      | 0.351    | ug/l #     | 43       |
| 11) Tert butyl alcohol        | 2.947  | 59    | 3256     | 7.637    | ug/l #     | 78       |
| 16) Acetone                   | 2.398  | 43    | 4285     | 4.609    | ug/l       | 96       |
| 20) Methylene Chloride        | 2.782  | 84    | 7308     | 2.907    | ug/l #     | 83       |
| 25) 2-Butanone                | 4.623  | 43    | 362      | 0.248    | ug/l #     | 51       |
| 29) Tetrahydrofuran           | 5.050  | 42    | 812      | 0.823    | ug/l #     | 77       |
| 31) Cyclohexane               | 5.550  | 56    | 3099     | 1.156    | ug/l #     | 1        |
| 36) 1,1-Dichloropropene       | 5.544  | 75    | 11850    | 4.457    | ug/l #     | 50       |
| 38) Carbon Tetrachloride      | 5.550  | 117   | 16971    | 5.654    | ug/l #     | 15       |
| 51) 4-Methyl-2-Pentanone      | 8.586  | 43    | 758      | 0.230    | ug/l #     | 80       |
| 52) Toluene                   | 8.720  | 92    | 2201     | 0.440    | ug/l       | 93       |
| 76) 1,2,3-Trichloropropane    | 11.079 | 75    | 66027    | 24.911   | ug/l #     | 39       |
| 81) trans-1,4-Dichloro-2-b... | 11.079 | 75    | 66027    | 80.998   | ug/l #     | 5        |
| -----                         |        |       |          |          |            |          |

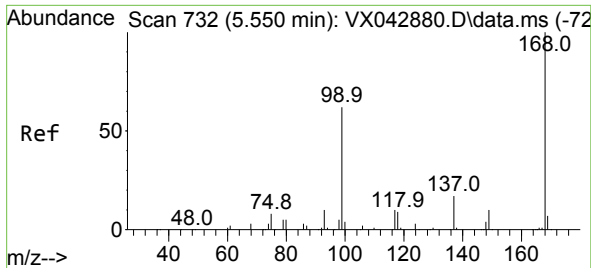
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX080824\  
Data File : VX042947.D  
Acq On : 08 Aug 2024 12:18  
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Sample : PB162548ZHE#01  
Misc : 5.0mL/MSVOA\_X/WATER  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :

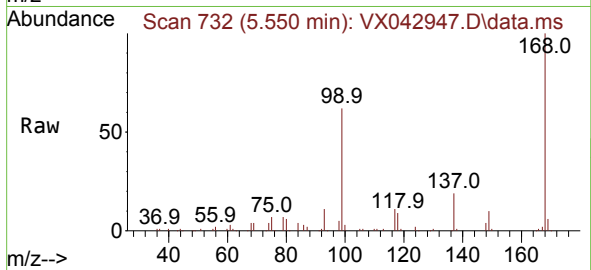
Quant Time: Aug 09 04:42:26 2024  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X080724W.M  
Quant Title : SW846 8260  
QLast Update : Wed Aug 07 02:55:22 2024  
Response via : Initial Calibration



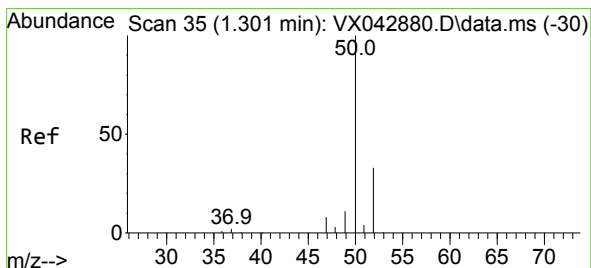
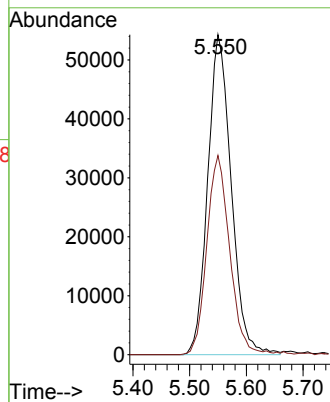
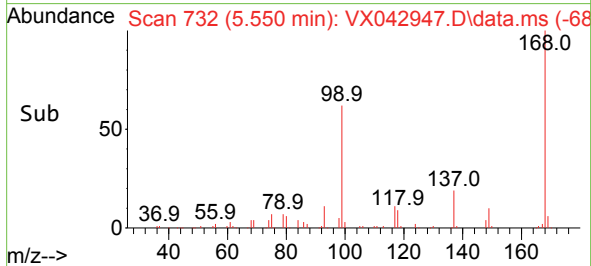


#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.550 min Scan# 71  
Delta R.T. -0.000 min  
Lab File: VX042947.D  
Acq: 08 Aug 2024 12:18

Instrument :  
MSVOA\_X  
ClientSampleId :

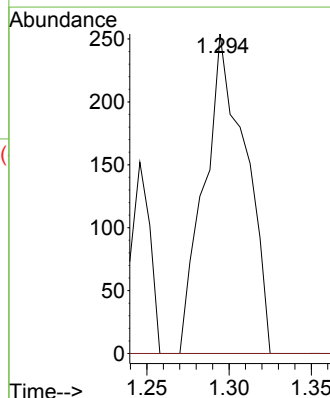
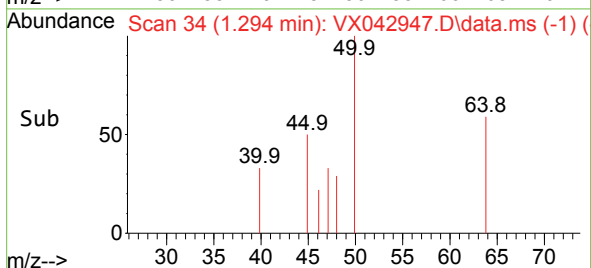
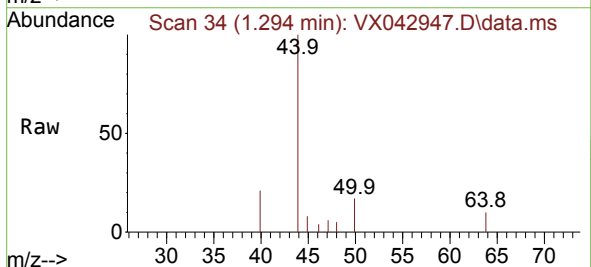


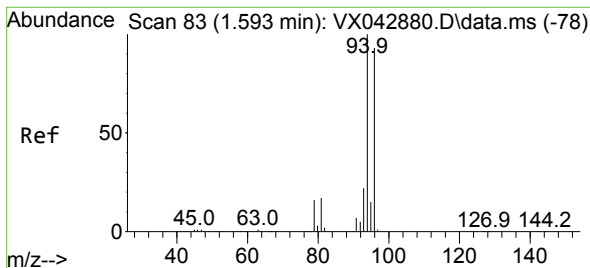
Tgt Ion:168 Resp: 156133  
Ion Ratio Lower Upper  
168 100  
99 62.2 56.6 85.0



#3  
Chloromethane  
Concen: 0.242 ug/l  
RT: 1.294 min Scan# 34  
Delta R.T. -0.006 min  
Lab File: VX042947.D  
Acq: 08 Aug 2024 12:18

Tgt Ion: 50 Resp: 443  
Ion Ratio Lower Upper  
50 100  
52 0.0 25.5 38.3#





#5

Bromomethane

Concen: 1.171 ug/l

RT: 1.605 min Scan# 83

Delta R.T. 0.012 min

Lab File: VX042947.D

Acq: 08 Aug 2024 12:18

Instrument :

MSVOA\_X

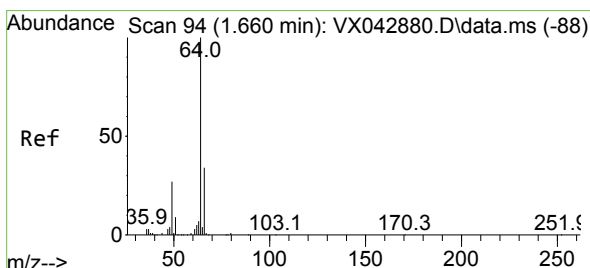
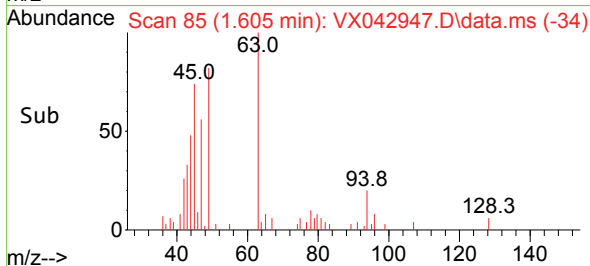
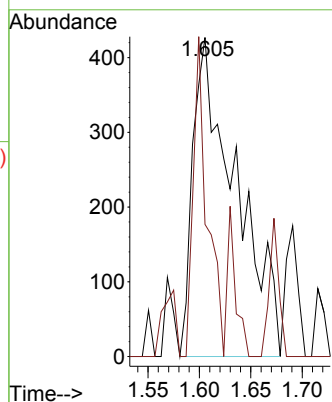
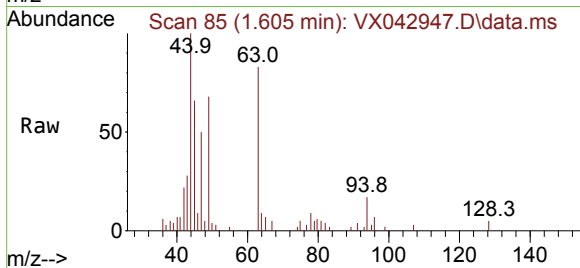
ClientSampleId :

Tgt Ion: 94 Resp: 1233

Ion Ratio Lower Upper

94 100

96 41.5 74.6 111.8#



#6

Chloroethane

Concen: 0.351 ug/l

RT: 1.660 min Scan# 94

Delta R.T. -0.000 min

Lab File: VX042947.D

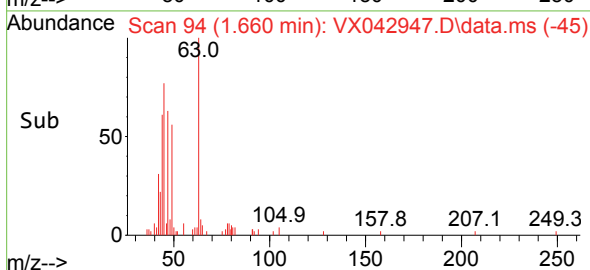
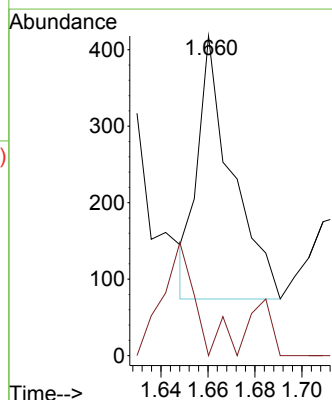
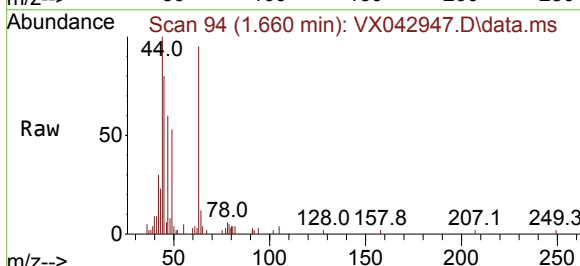
Acq: 08 Aug 2024 12:18

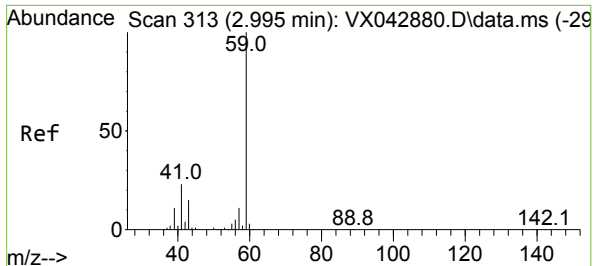
Tgt Ion: 64 Resp: 348

Ion Ratio Lower Upper

64 100

66 0.0 25.1 37.7#





#11

Tert butyl alcohol

Concen: 7.637 ug/l

RT: 2.947 min Scan# 305

Delta R.T. -0.049 min

Lab File: VX042947.D

Acq: 08 Aug 2024 12:18

Instrument :

MSVOA\_X

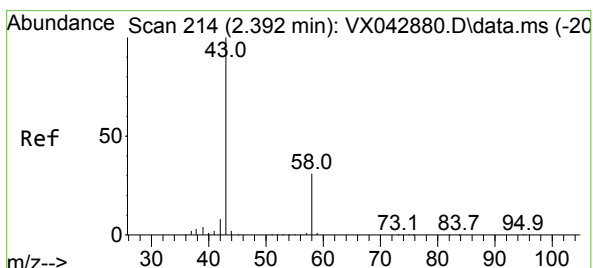
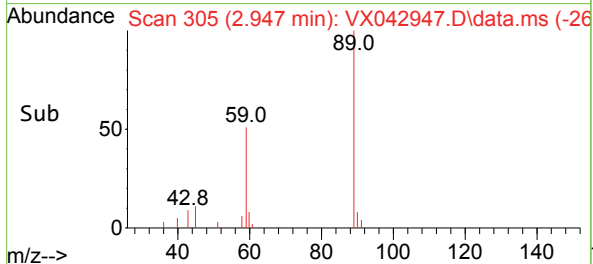
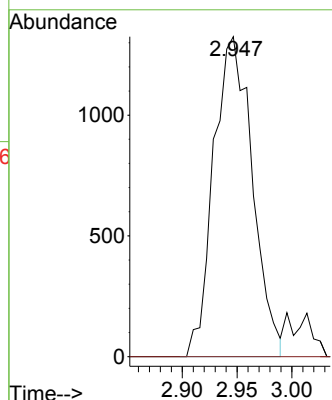
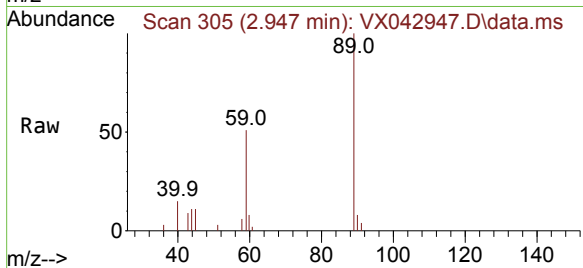
ClientSampleId :

Tgt Ion: 59 Resp: 3256

Ion Ratio Lower Upper

59 100

57 0.0 6.0 9.0#



#16

Acetone

Concen: 4.609 ug/l

RT: 2.398 min Scan# 215

Delta R.T. 0.006 min

Lab File: VX042947.D

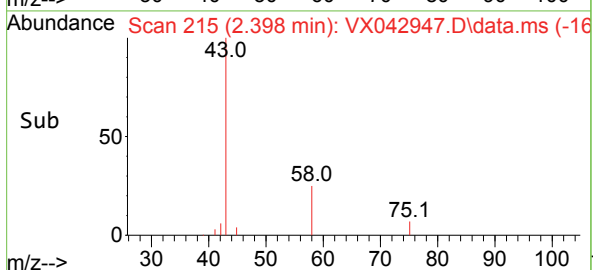
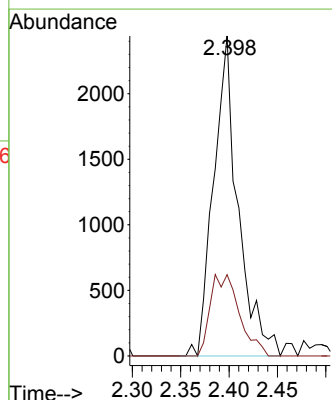
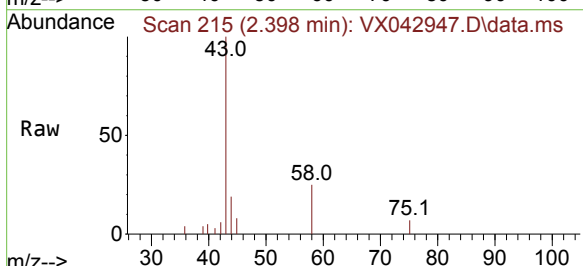
Acq: 08 Aug 2024 12:18

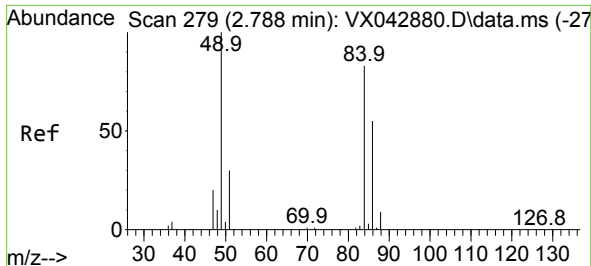
Tgt Ion: 43 Resp: 4285

Ion Ratio Lower Upper

43 100

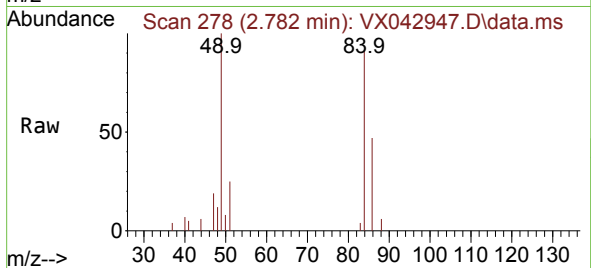
58 25.4 21.9 32.9



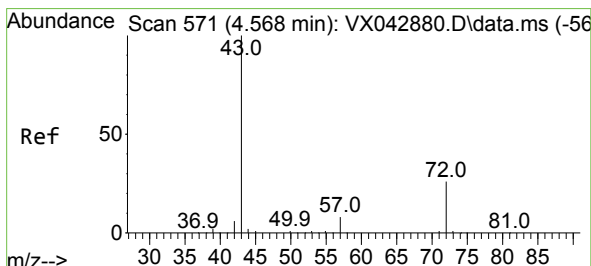
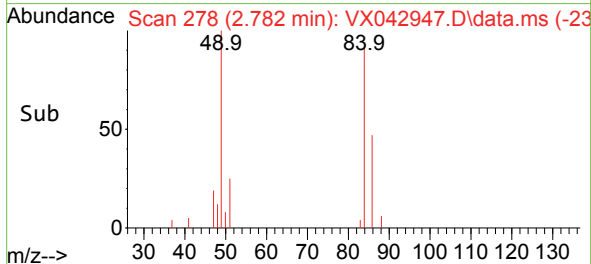
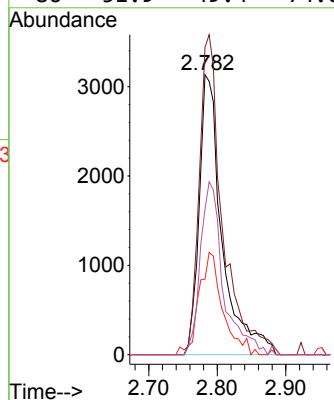


#20  
Methylene Chloride  
Concen: 2.907 ug/l  
RT: 2.782 min Scan# 21  
Delta R.T. -0.006 min  
Lab File: VX042947.D  
Acq: 08 Aug 2024 12:18

Instrument :  
MSVOA\_X  
ClientSampleId :

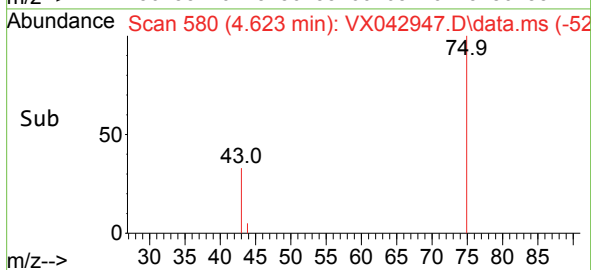
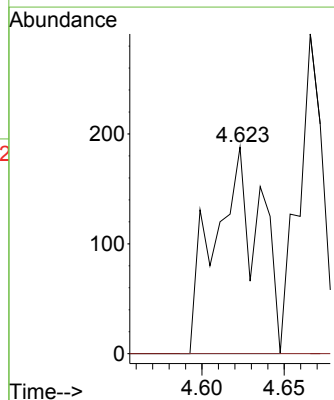
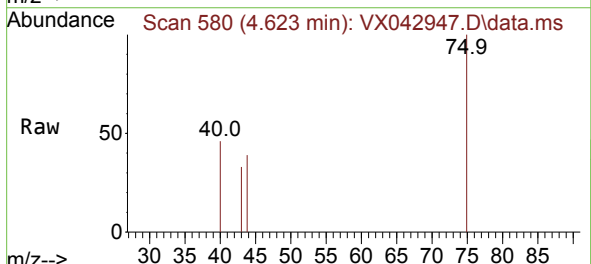


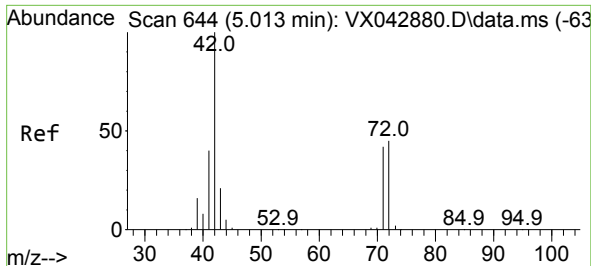
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 84    | Resp: | 7308  |
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 49       | 109.8 | 103.6 | 155.4 |
| 51       | 27.0  | 33.8  | 50.6# |
| 86       | 51.9  | 49.4  | 74.0  |



#25  
2-Butanone  
Concen: 0.248 ug/l  
RT: 4.623 min Scan# 580  
Delta R.T. 0.055 min  
Lab File: VX042947.D  
Acq: 08 Aug 2024 12:18

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 362   |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 72       | 0.0   | 19.4  | 29.2# |





#29

Tetrahydrofuran

Concen: 0.823 ug/l

RT: 5.050 min Scan# 61

Delta R.T. 0.037 min

Lab File: VX042947.D

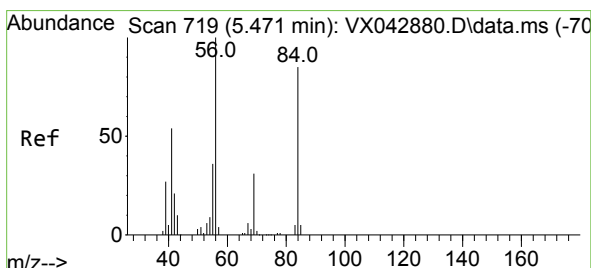
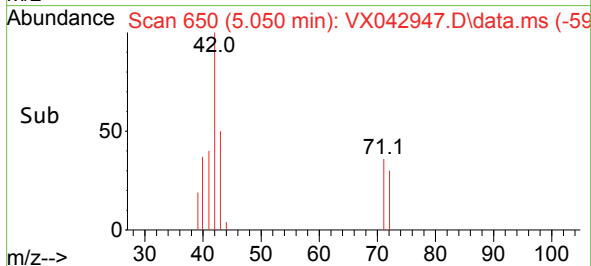
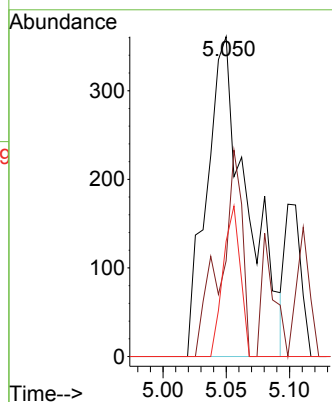
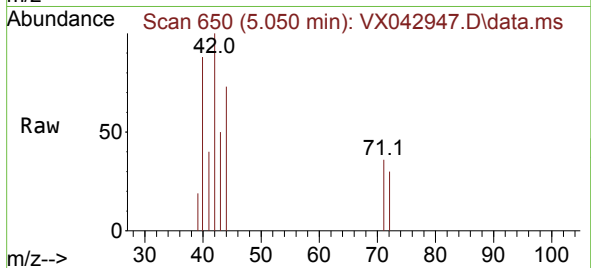
Acq: 08 Aug 2024 12:18

Instrument :

MSVOA\_X

ClientSampleId :

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 42    | Resp: | 812   |
| Ion      | Ratio | Lower | Upper |
| 42       | 100   |       |       |
| 72       | 34.1  | 34.2  | 51.4# |
| 71       | 19.7  | 32.2  | 48.2# |



#31

Cyclohexane

Concen: 1.156 ug/l

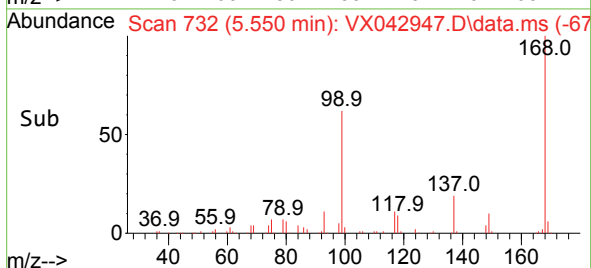
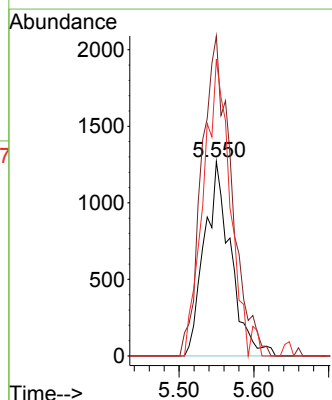
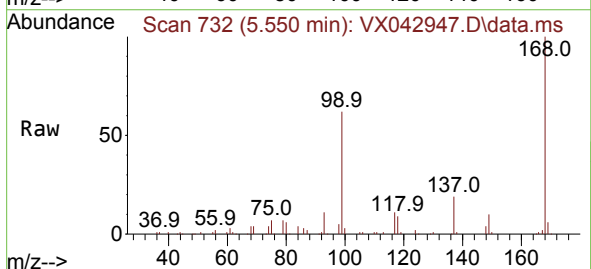
RT: 5.550 min Scan# 732

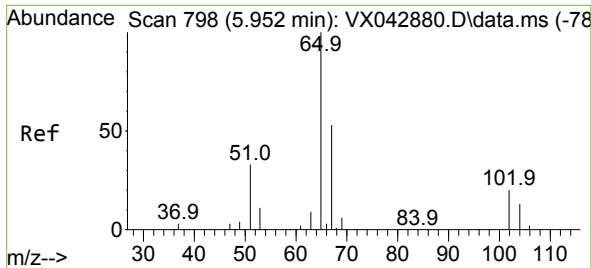
Delta R.T. 0.079 min

Lab File: VX042947.D

Acq: 08 Aug 2024 12:18

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 56    | Resp: | 3099  |
| Ion      | Ratio | Lower | Upper |
| 56       | 100   |       |       |
| 69       | 164.6 | 23.4  | 35.2# |
| 84       | 152.5 | 65.9  | 98.9# |





#33

1,2-Dichloroethane-d4

Concen: 56.582 ug/l

RT: 5.958 min Scan# 798

Delta R.T. 0.006 min

Lab File: VX042947.D

Acq: 08 Aug 2024 12:18

Instrument :

MSVOA\_X

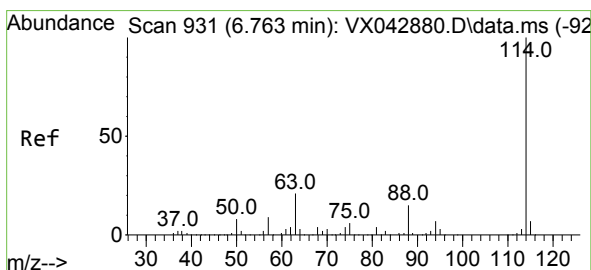
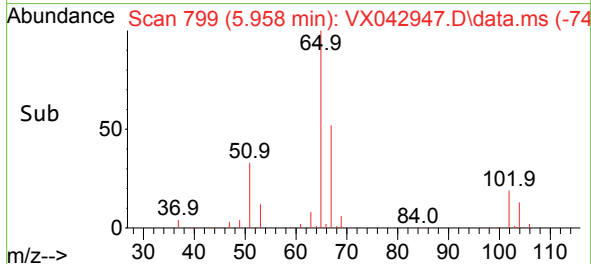
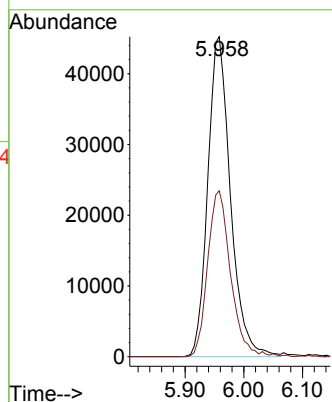
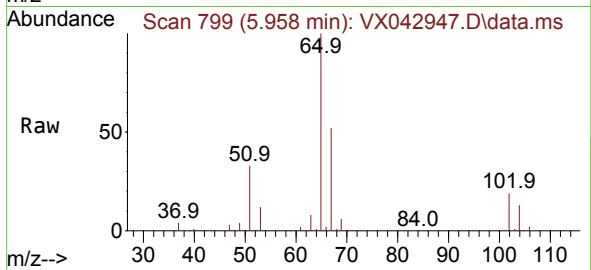
ClientSampleId :

Tgt Ion: 65 Resp: 121278

Ion Ratio Lower Upper

65 100

67 52.6 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: VX042947.D

Acq: 08 Aug 2024 12:18

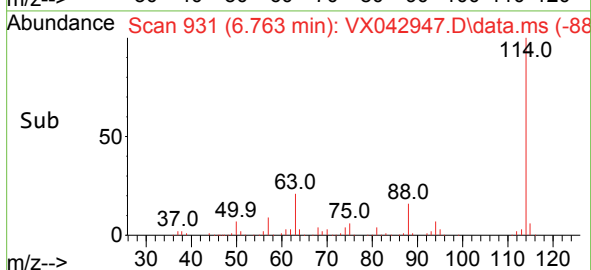
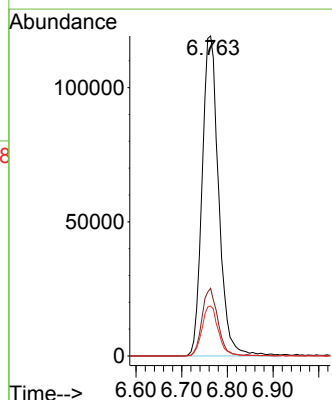
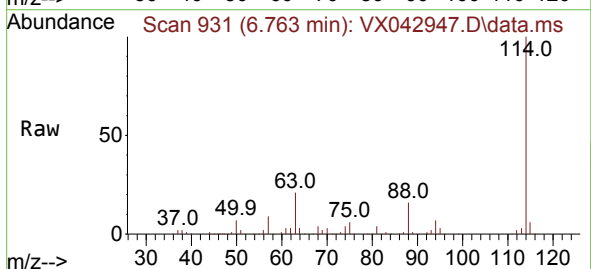
Tgt Ion: 114 Resp: 299951

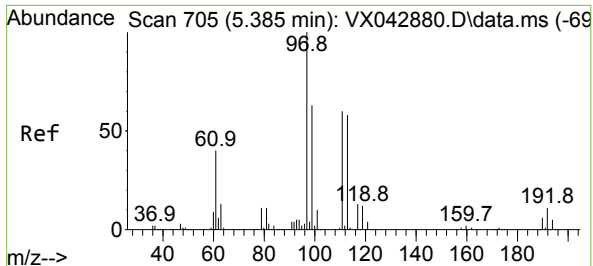
Ion Ratio Lower Upper

114 100

63 21.2 0.0 45.0

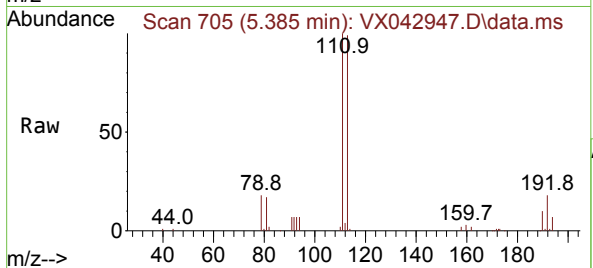
88 15.6 0.0 36.6



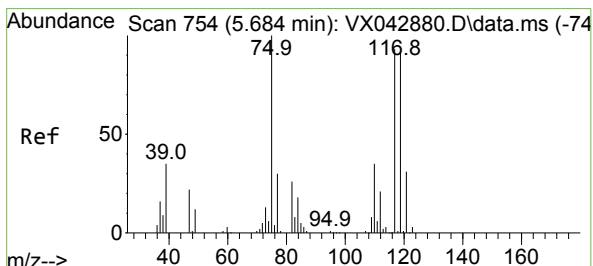
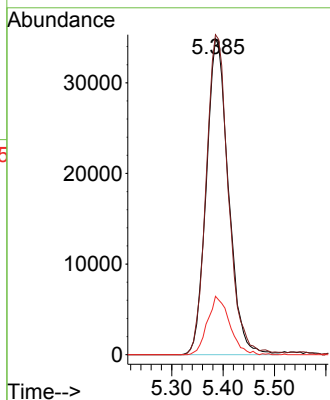
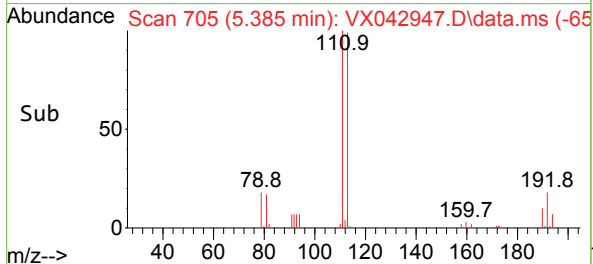


#35  
Dibromofluoromethane  
Concen: 53.235 ug/l  
RT: 5.385 min Scan# 705  
Delta R.T. -0.000 min  
Lab File: VX042947.D  
Acq: 08 Aug 2024 12:18

Instrument :  
MSVOA\_X  
ClientSampleId :

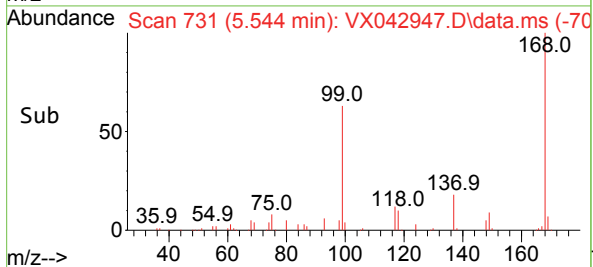
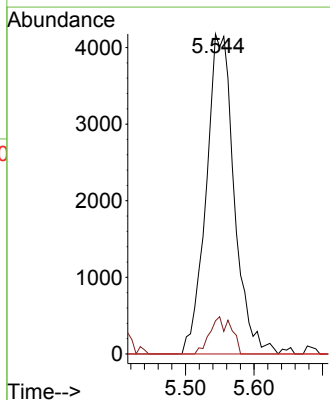
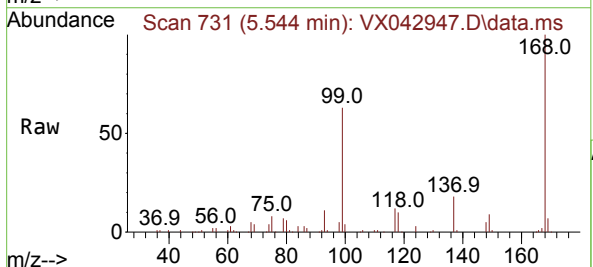


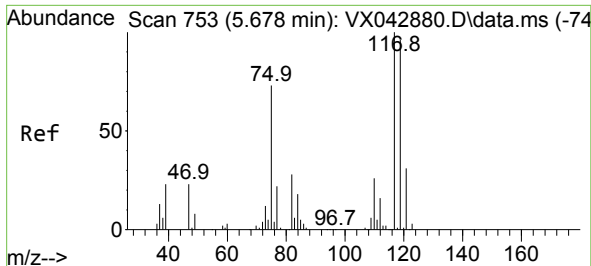
Tgt Ion:113 Resp: 104406  
Ion Ratio Lower Upper  
113 100  
111 101.5 82.9 124.3  
192 18.4 13.3 19.9



#36  
1,1-Dichloropropene  
Concen: 4.457 ug/l  
RT: 5.544 min Scan# 731  
Delta R.T. -0.140 min  
Lab File: VX042947.D  
Acq: 08 Aug 2024 12:18

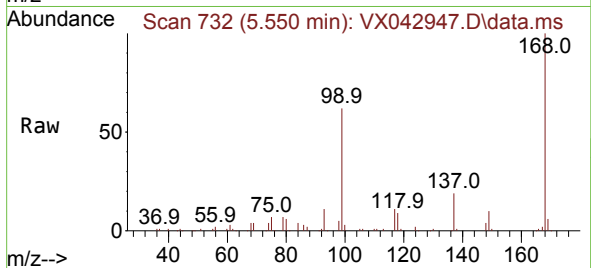
Tgt Ion: 75 Resp: 11850  
Ion Ratio Lower Upper  
75 100  
110 8.9 17.0 50.9#  
77 0.0 24.7 37.1#



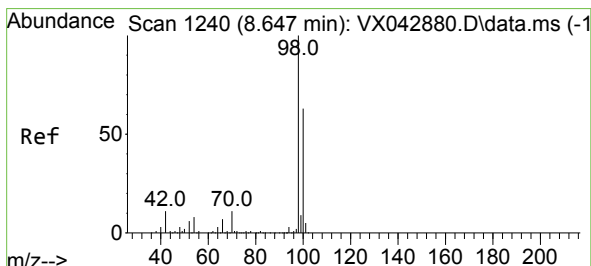
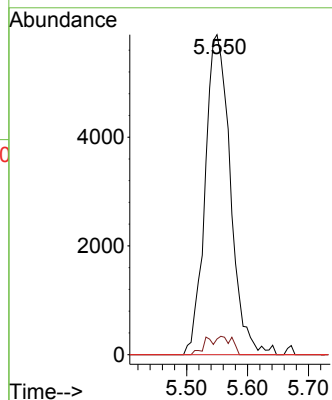
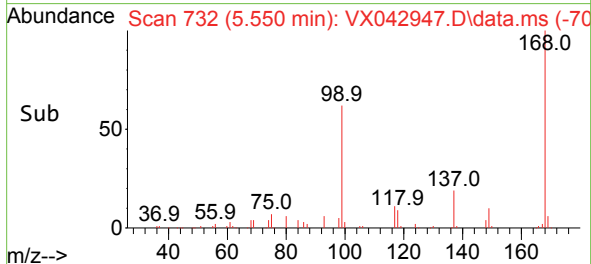


#38  
Carbon Tetrachloride  
Concen: 5.654 ug/l  
RT: 5.550 min Scan# 71  
Delta R.T. -0.128 min  
Lab File: VX042947.D  
Acq: 08 Aug 2024 12:18

Instrument :  
MSVOA\_X  
ClientSampleId :

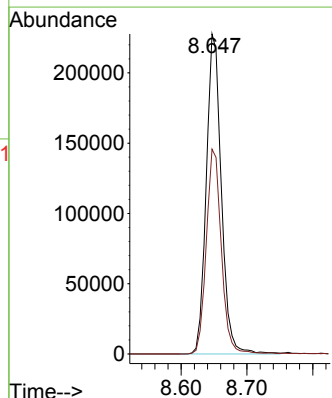
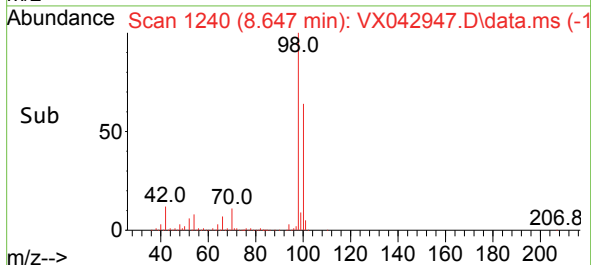
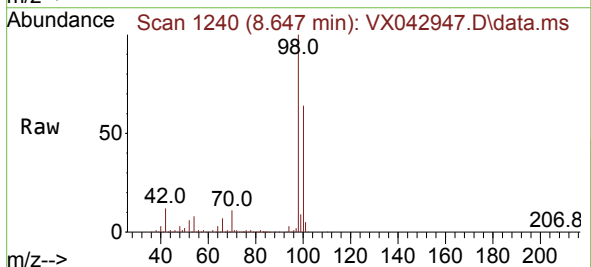


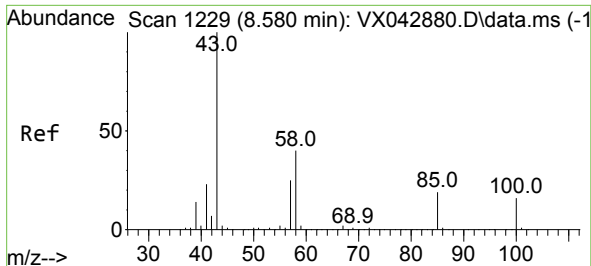
Tgt Ion:117 Resp: 16971  
Ion Ratio Lower Upper  
117 100  
119 4.9 78.2 117.2#  
121 0.0 24.4 36.6#



#50  
Toluene-d8  
Concen: 52.078 ug/l  
RT: 8.647 min Scan# 1240  
Delta R.T. -0.000 min  
Lab File: VX042947.D  
Acq: 08 Aug 2024 12:18

Tgt Ion: 98 Resp: 362587  
Ion Ratio Lower Upper  
98 100  
100 64.0 53.1 79.7

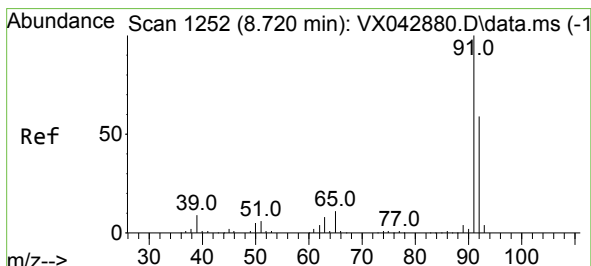
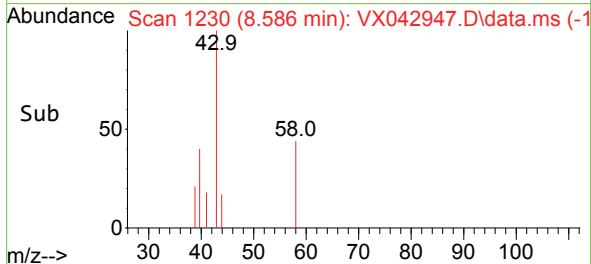
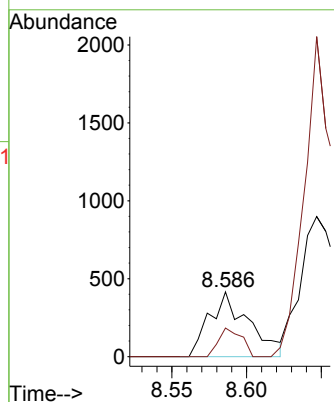
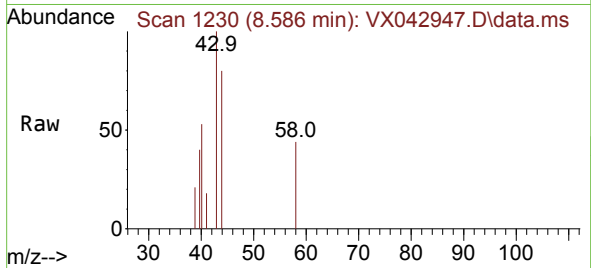




#51  
4-Methyl-2-Pentanone  
Concen: 0.230 ug/l  
RT: 8.586 min Scan# 11  
Delta R.T. 0.006 min  
Lab File: VX042947.D  
Acq: 08 Aug 2024 12:18

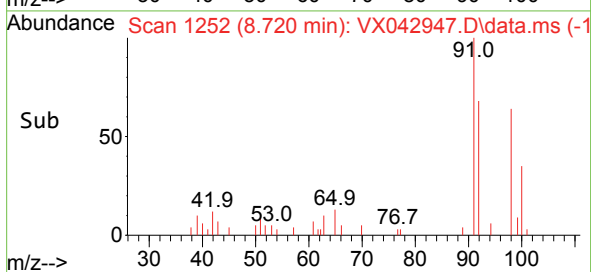
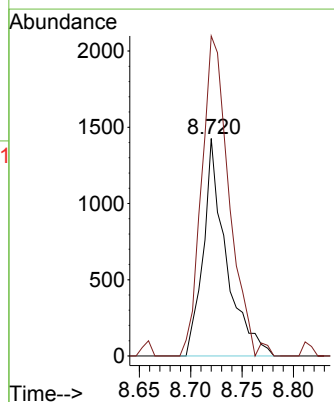
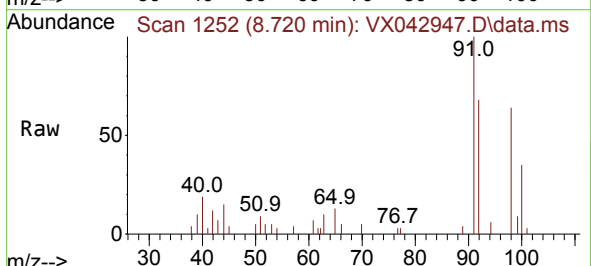
Instrument :  
MSVOA\_X  
ClientSampleId :

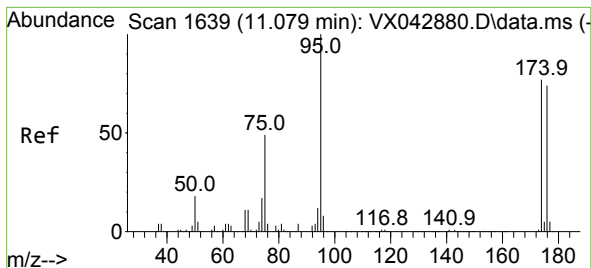
Tgt Ion: 43 Resp: 758  
Ion Ratio Lower Upper  
43 100  
58 25.7 30.4 45.6#



#52  
Toluene  
Concen: 0.440 ug/l  
RT: 8.720 min Scan# 1252  
Delta R.T. -0.000 min  
Lab File: VX042947.D  
Acq: 08 Aug 2024 12:18

Tgt Ion: 92 Resp: 2201  
Ion Ratio Lower Upper  
92 100  
91 177.7 134.2 201.2





#62

4-Bromofluorobenzene

Concen: 52.215 ug/l

RT: 11.079 min Scan# 1

Delta R.T. -0.000 min

Lab File: VX042947.D

Acq: 08 Aug 2024 12:18

Instrument :

MSVOA\_X

ClientSampleId :

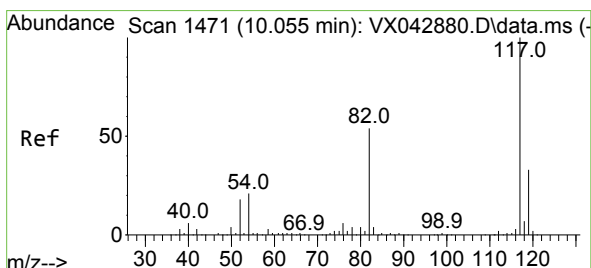
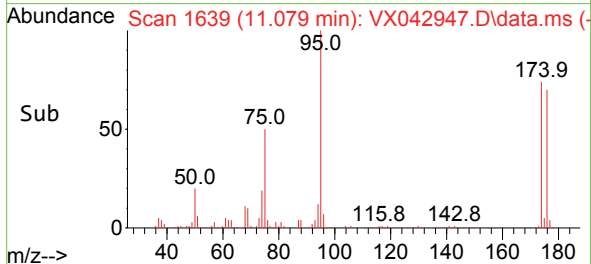
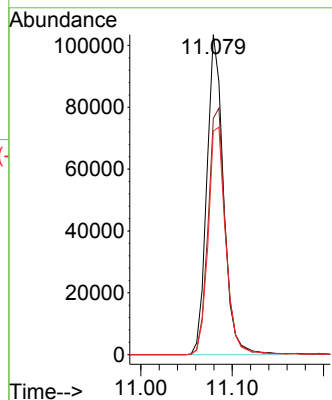
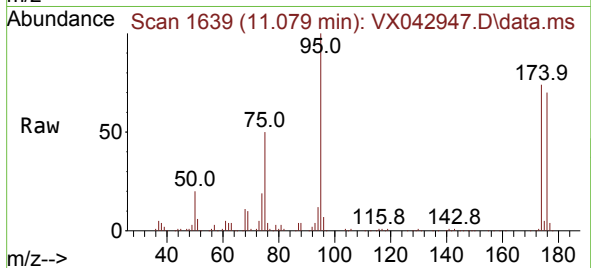
Tgt Ion: 95 Resp: 130638

Ion Ratio Lower Upper

95 100

174 81.1 0.0 135.6

176 75.2 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: VX042947.D

Acq: 08 Aug 2024 12:18

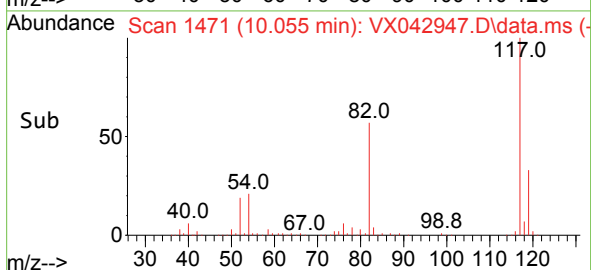
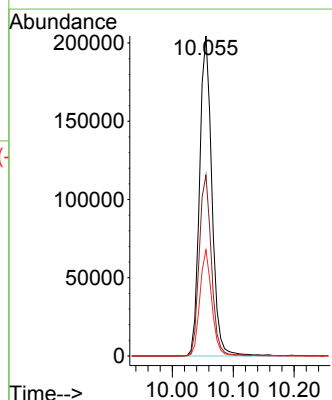
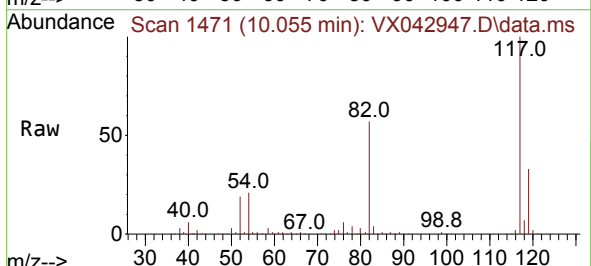
Tgt Ion: 117 Resp: 286772

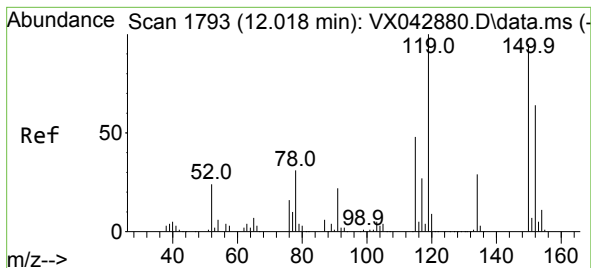
Ion Ratio Lower Upper

117 100

82 56.5 46.2 69.4

119 33.1 25.5 38.3





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.024 min Scan# 1

Delta R.T. 0.006 min

Lab File: VX042947.D

Acq: 08 Aug 2024 12:18

Instrument :

MSVOA\_X

ClientSampleId :

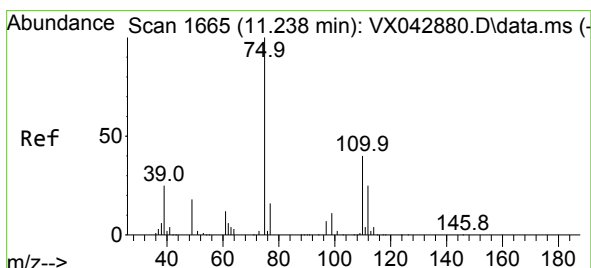
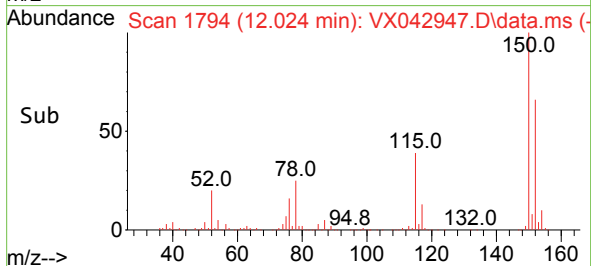
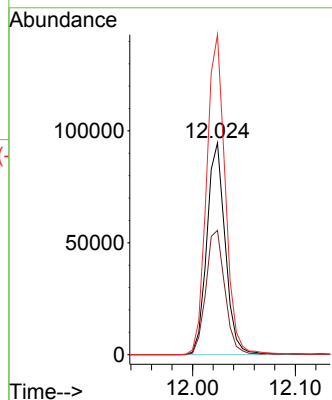
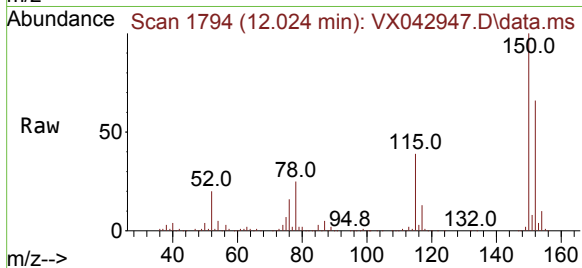
Tgt Ion:152 Resp: 117856

Ion Ratio Lower Upper

152 100

115 60.9 43.3 129.9

150 153.5 0.0 345.0



#76

1,2,3-Trichloropropane

Concen: 24.911 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. -0.159 min

Lab File: VX042947.D

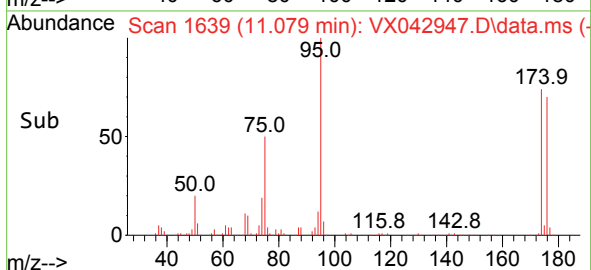
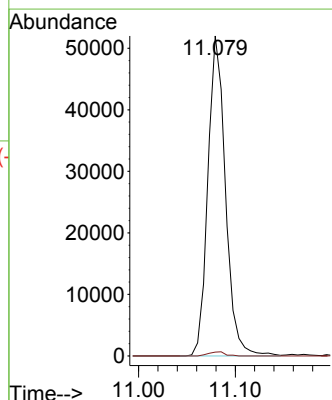
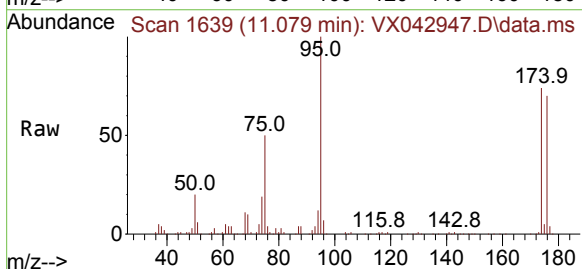
Acq: 08 Aug 2024 12:18

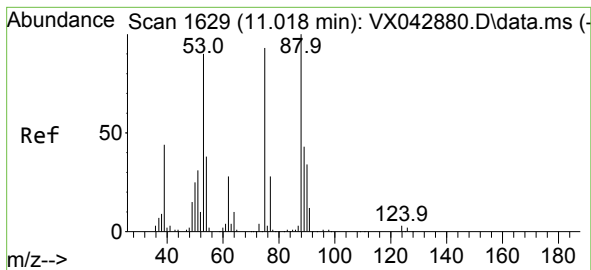
Tgt Ion: 75 Resp: 66027

Ion Ratio Lower Upper

75 100

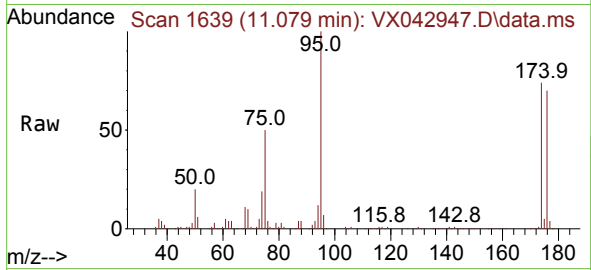
77 1.2 19.1 57.5#





#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 80.998 ug/l  
 RT: 11.079 min Scan# 1  
 Delta R.T. 0.061 min  
 Lab File: VX042947.D  
 Acq: 08 Aug 2024 12:18

Instrument :  
 MSVOA\_X  
 ClientSampleId :



Tgt Ion: 75 Resp: 66027  
 Ion Ratio Lower Upper  
 75 100  
 53 0.0 90.5 135.7#  
 89 0.1 36.9 55.3#

