

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX052824\  
 Data File : VX041659.D  
 Acq On : 28 May 2024 12:48  
 Operator : JC/MD  
 Sample : P2620-01  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :

Quant Time: May 29 05:40:09 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\624X051524W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Thu May 16 05:13:13 2024  
 Response via : Initial Calibration

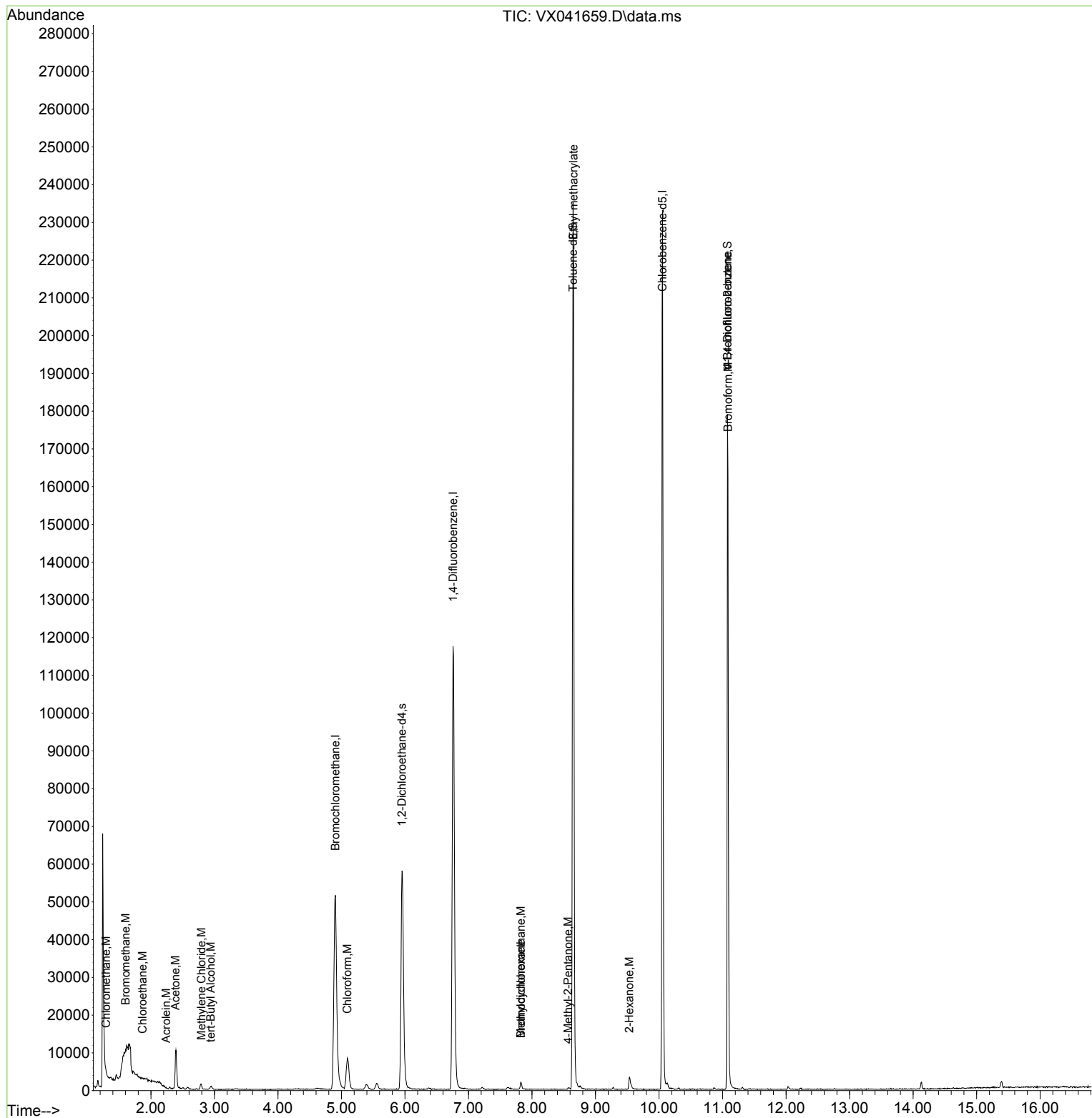
| Compound                    | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-----------------------------|--------|-------|----------|----------|--------|----------|
| -----                       |        |       |          |          |        |          |
| Internal Standards          |        |       |          |          |        |          |
| 1) Bromochloromethane       | 4.903  | 128   | 24315    | 30.000   | ug/l   | 0.00     |
| 28) 1,4-Difluorobenzene     | 6.757  | 114   | 126315   | 30.000   | ug/l   | 0.00     |
| 57) Chlorobenzene-d5        | 10.055 | 117   | 109449   | 30.000   | ug/l   | 0.00     |
| System Monitoring Compounds |        |       |          |          |        |          |
| 27) 1,2-Dichloroethane-d4   | 5.952  | 65    | 59750    | 31.204   | ug/l   | 0.00     |
| Spiked Amount               | 30.000 | Range | 91 - 110 | Recovery | =      | 104.000% |
| 60) 4-Bromofluorobenzene    | 11.079 | 95    | 45931    | 26.883   | ug/l   | 0.00     |
| Spiked Amount               | 30.000 | Range | 63 - 112 | Recovery | =      | 89.600%  |
| 63) Toluene-d8              | 8.647  | 98    | 142173   | 30.304   | ug/l   | 0.00     |
| Spiked Amount               | 30.000 | Range | 91 - 112 | Recovery | =      | 101.000% |
| Target Compounds            |        |       |          |          |        |          |
|                             |        |       |          |          | Qvalue |          |
| 3) Chloromethane            | 1.294  | 50    | 345      | 0.248    | ug/l # | 72       |
| 5) Bromomethane             | 1.599  | 94    | 331      | 0.355    | ug/l   | 83       |
| 6) Chloroethane             | 1.867  | 64    | 263      | 0.355    | ug/l   | 99       |
| 13) Acrolein                | 2.239  | 56    | 57       | 0.250    | ug/l # | 15       |
| 15) Acetone                 | 2.386  | 58    | 3598     | 16.302   | ug/l   | 82       |
| 18) Methylene Chloride      | 2.794  | 84    | 303      | 0.205    | ug/l # | 72       |
| 23) tert-Butyl Alcohol      | 2.940  | 59    | 642      | 1.837    | ug/l # | 100      |
| 25) Chloroform              | 5.092  | 83    | 10359    | 3.735    | ug/l   | 99       |
| 38) Methylcyclohexane       | 7.824  | 83    | 1302     | 0.614    | ug/l # | 18       |
| 41) Bromodichloromethane    | 7.824  | 83    | 1343     | 0.729    | ug/l # | 88       |
| 51) Ethyl methacrylate      | 8.653  | 69    | 522      | 0.237    | ug/l   | 80       |
| 56) Bromoform               | 11.085 | 173   | 429      | 0.345    | ug/l # | 1        |
| 58) 4-Methyl-2-Pentanone    | 8.567  | 43    | 875      | 0.438    | ug/l # | 44       |
| 59) 2-Hexanone              | 9.531  | 43    | 685      | 0.430    | ug/l # | 16       |
| 77) t-1,4-Dichloro-2-butene | 11.079 | 75    | 23001    | 39.270   | ug/l # | 1        |
| -----                       |        |       |          |          |        |          |

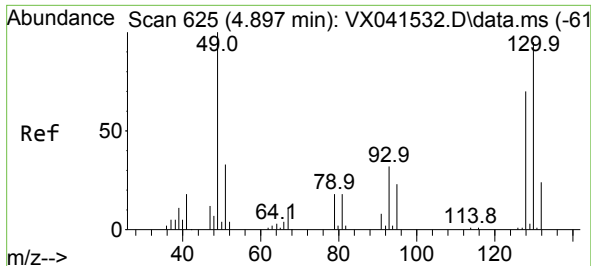
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX052824\  
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Sample : P2620-01  
Misc : 5.0mL/MSVOA\_X/WATER  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :

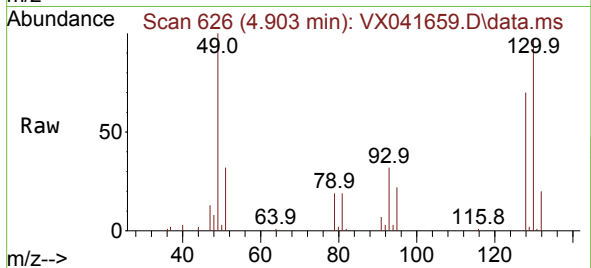
Quant Time: May 29 05:40:09 2024  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\624X051524W.M  
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
QLast Update : Thu May 16 05:13:13 2024  
Response via : Initial Calibration



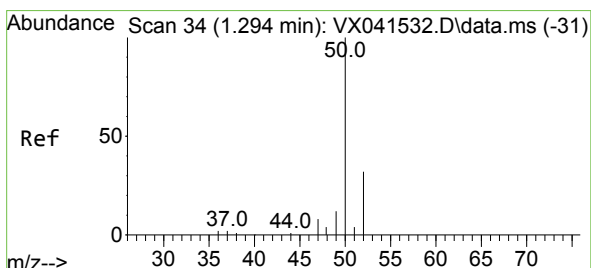
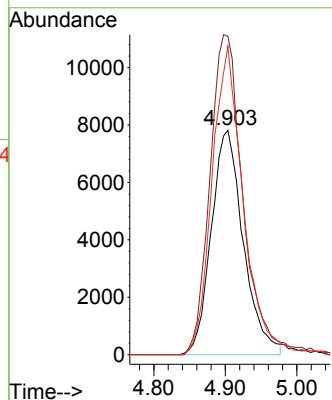
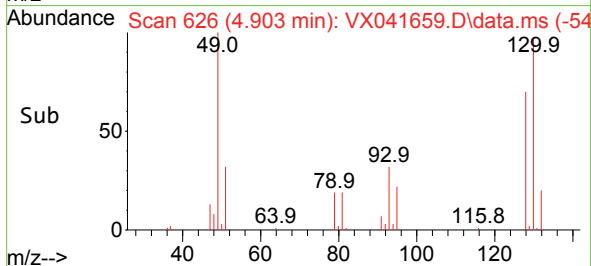


#1  
Bromochloromethane  
Concen: 30.000 ug/l  
RT: 4.903 min Scan# 61  
Delta R.T. 0.006 min  
Lab File: VX041659.D  
Acq: 28 May 2024 12:48

Instrument :  
MSVOA\_X  
ClientSampleId :

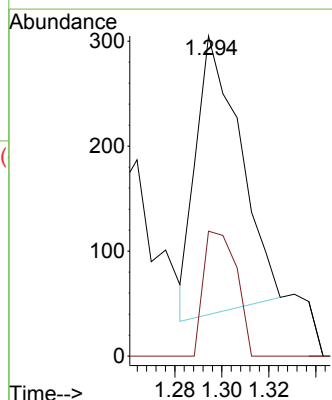
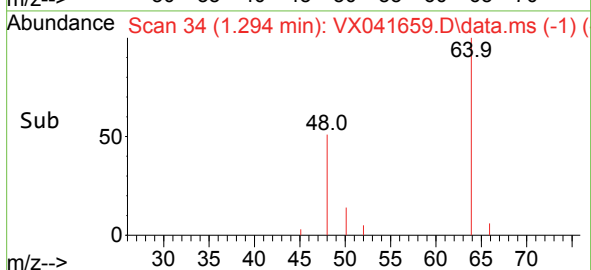
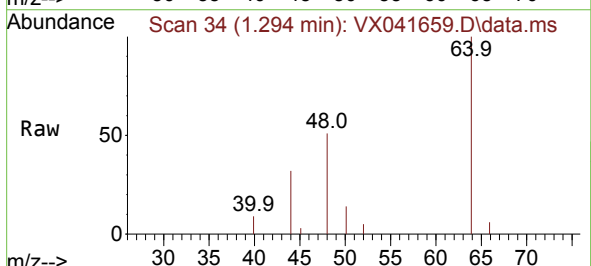


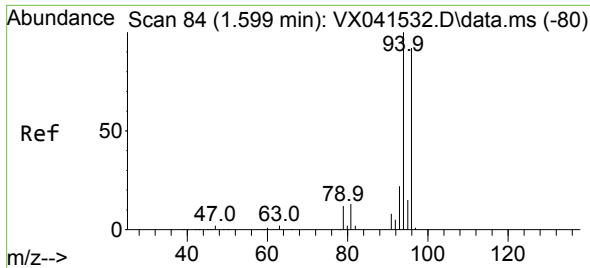
Tgt Ion:128 Resp: 24315  
Ion Ratio Lower Upper  
128 100  
49 147.2 0.0 361.5  
130 133.8 0.0 324.3



#3  
Chloromethane  
Concen: 0.248 ug/l  
RT: 1.294 min Scan# 34  
Delta R.T. 0.000 min  
Lab File: VX041659.D  
Acq: 28 May 2024 12:48

Tgt Ion: 50 Resp: 345  
Ion Ratio Lower Upper  
50 100  
52 47.8 25.8 38.8#

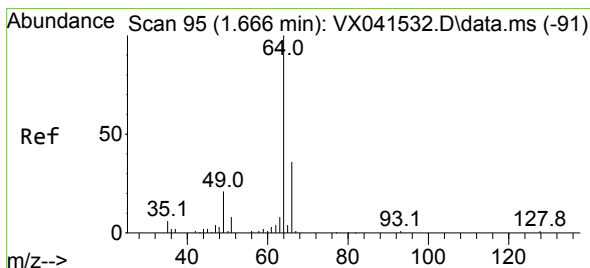
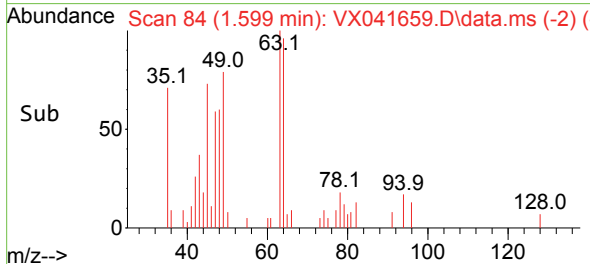
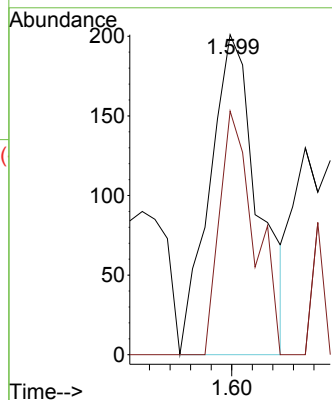
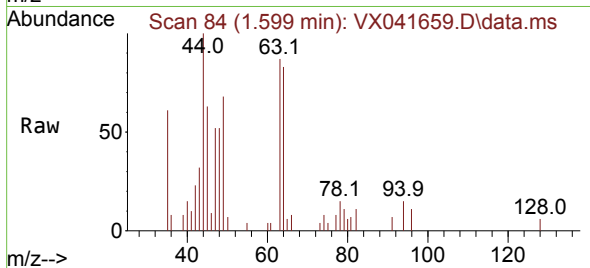




#5  
Bromomethane  
Concen: 0.355 ug/l  
RT: 1.599 min Scan# 84  
Delta R.T. 0.000 min  
Lab File: VX041659.D  
Acq: 28 May 2024 12:48

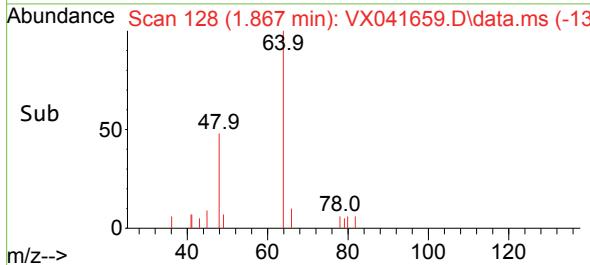
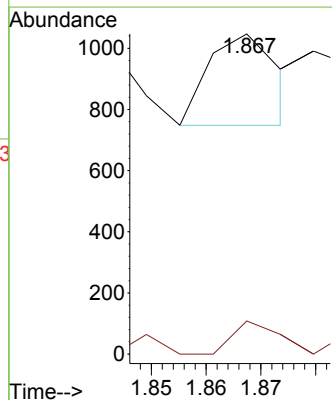
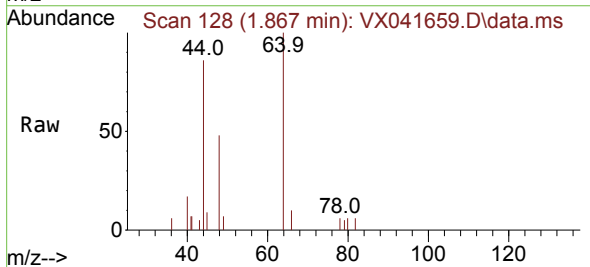
Instrument :  
MSVOA\_X  
ClientSampleId :

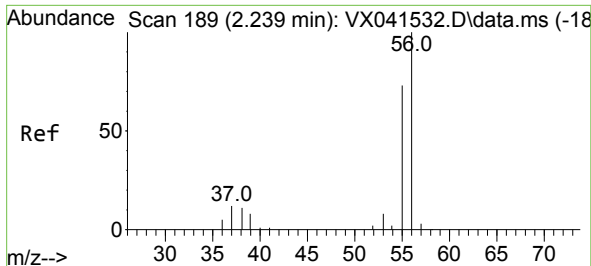
Tgt Ion: 94 Resp: 331  
Ion Ratio Lower Upper  
94 100  
96 76.1 73.9 110.9



#6  
Chloroethane  
Concen: 0.355 ug/l  
RT: 1.867 min Scan# 128  
Delta R.T. 0.201 min  
Lab File: VX041659.D  
Acq: 28 May 2024 12:48

Tgt Ion: 64 Resp: 263  
Ion Ratio Lower Upper  
64 100  
66 36.1 28.6 42.8





#13

Acrolein

Concen: 0.250 ug/l

RT: 2.239 min Scan# 11

Delta R.T. 0.000 min

Lab File: VX041659.D

Acq: 28 May 2024 12:48

Instrument :

MSVOA\_X

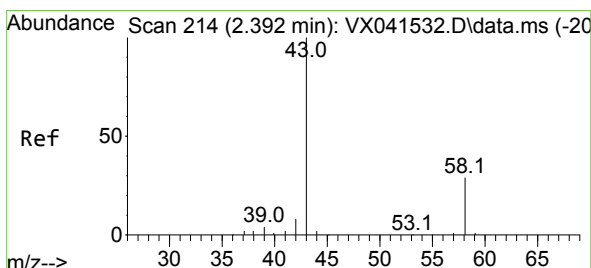
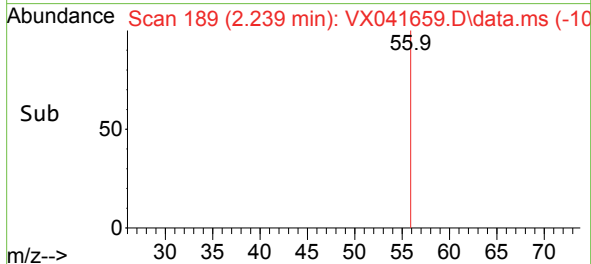
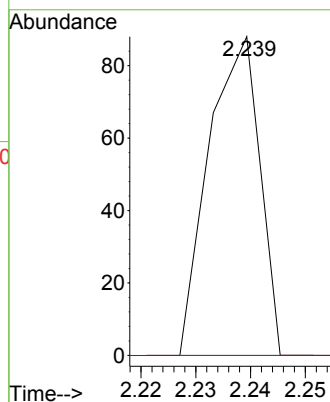
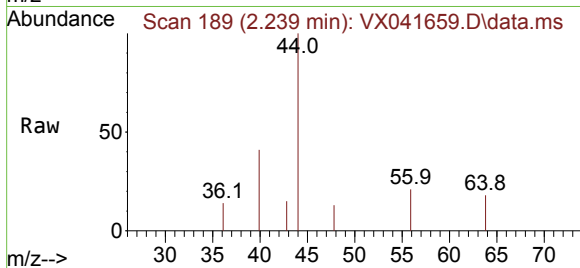
ClientSampleId :

Tgt Ion: 56 Resp: 57

Ion Ratio Lower Upper

56 100

55 0.0 55.1 82.7#



#15

Acetone

Concen: 16.302 ug/l

RT: 2.386 min Scan# 213

Delta R.T. -0.006 min

Lab File: VX041659.D

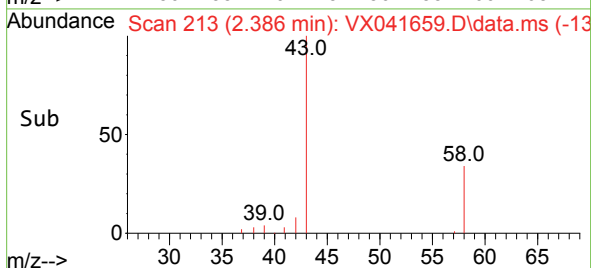
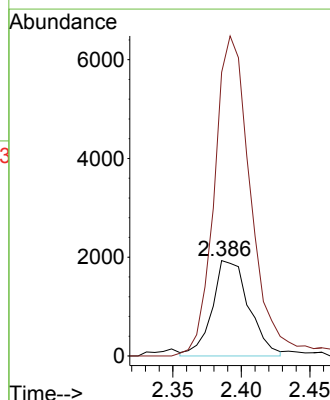
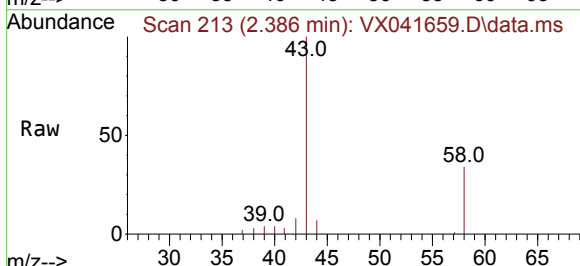
Acq: 28 May 2024 12:48

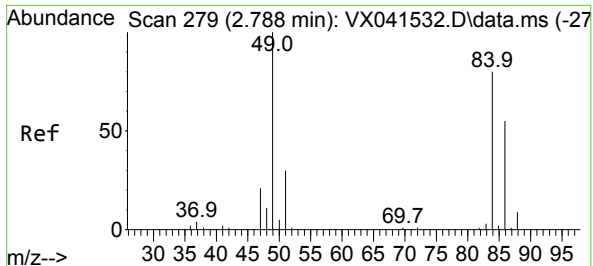
Tgt Ion: 58 Resp: 3598

Ion Ratio Lower Upper

58 100

43 305.0 274.0 411.0





#18

Methylene Chloride

Concen: 0.205 ug/l

RT: 2.794 min Scan# 21

Delta R.T. 0.006 min

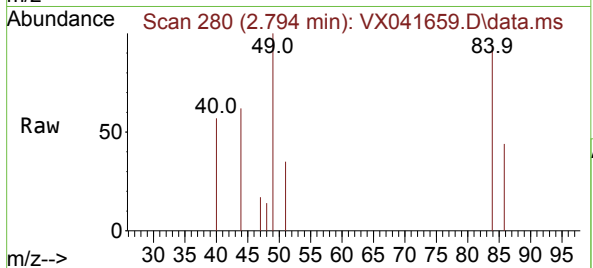
Lab File: VX041659.D

Acq: 28 May 2024 12:48

Instrument :

MSVOA\_X

ClientSampleId :



Tgt Ion: 84 Resp: 303

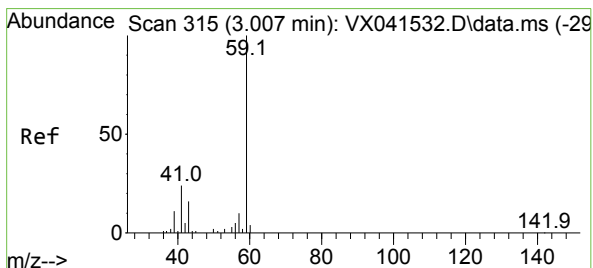
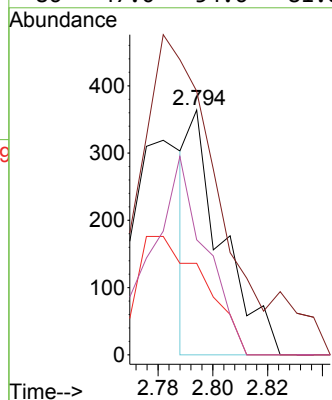
Ion Ratio Lower Upper

84 100

49 81.9 99.8 149.8#

51 37.4 30.2 45.4

86 47.0 54.6 81.8#



#23

tert-Butyl Alcohol

Concen: 1.837 ug/l

RT: 2.940 min Scan# 304

Delta R.T. -0.067 min

Lab File: VX041659.D

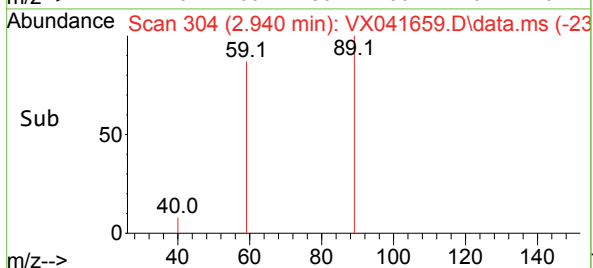
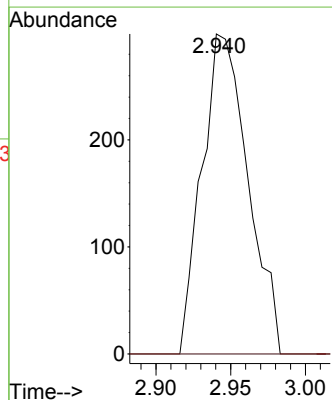
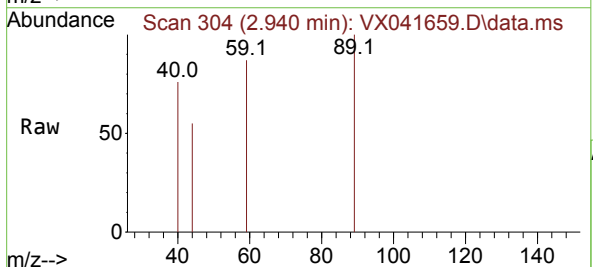
Acq: 28 May 2024 12:48

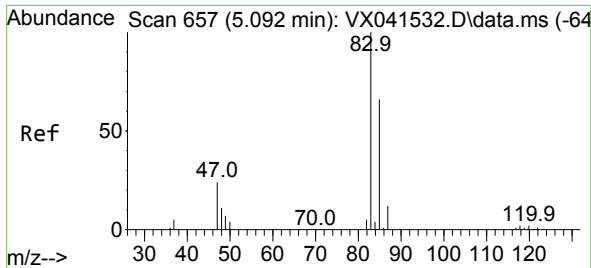
Tgt Ion: 59 Resp: 642

Ion Ratio Lower Upper

59 100

52 0.0 0.0 0.0

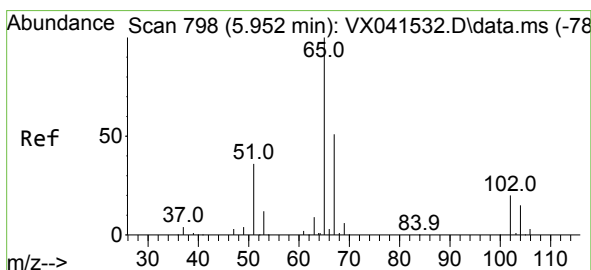
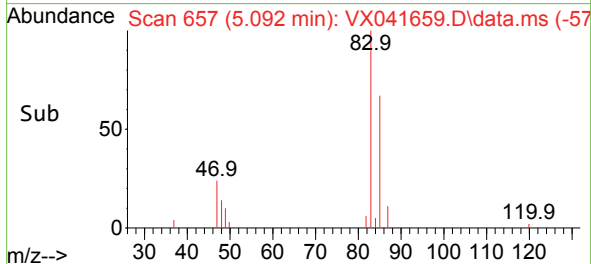
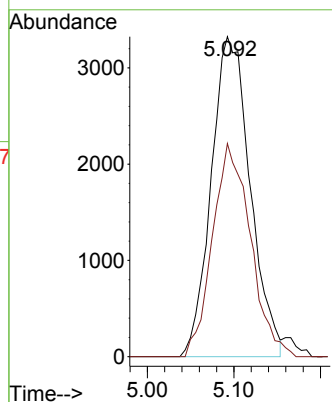
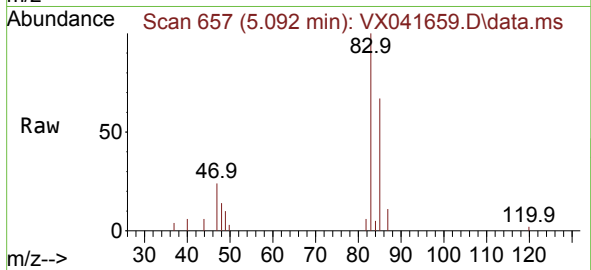




#25  
Chloroform  
Concen: 3.735 ug/l  
RT: 5.092 min Scan# 61  
Delta R.T. 0.000 min  
Lab File: VX041659.D  
Acq: 28 May 2024 12:48

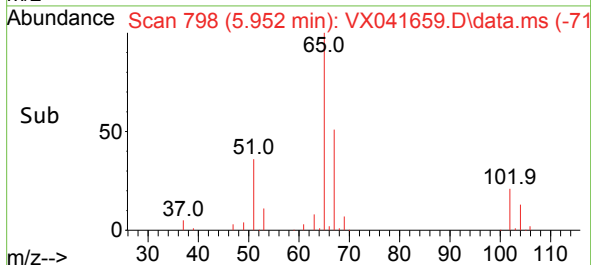
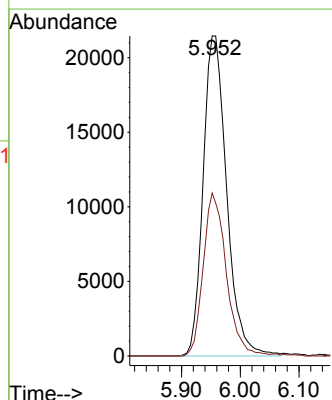
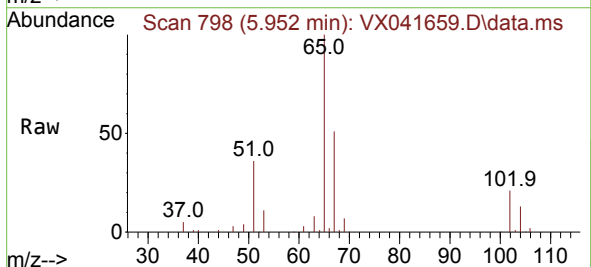
Instrument :  
MSVOA\_X  
ClientSampleId :

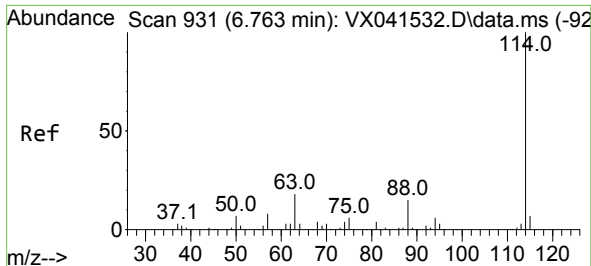
Tgt Ion: 83 Resp: 10359  
Ion Ratio Lower Upper  
83 100  
85 66.6 52.9 79.3



#27  
1,2-Dichloroethane-d4  
Concen: 31.204 ug/l  
RT: 5.952 min Scan# 798  
Delta R.T. 0.000 min  
Lab File: VX041659.D  
Acq: 28 May 2024 12:48

Tgt Ion: 65 Resp: 59750  
Ion Ratio Lower Upper  
65 100  
67 49.8 40.8 61.2





#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 6.757 min Scan# 91

Delta R.T. -0.006 min

Lab File: VX041659.D

Acq: 28 May 2024 12:48

Instrument :

MSVOA\_X

ClientSampleId :

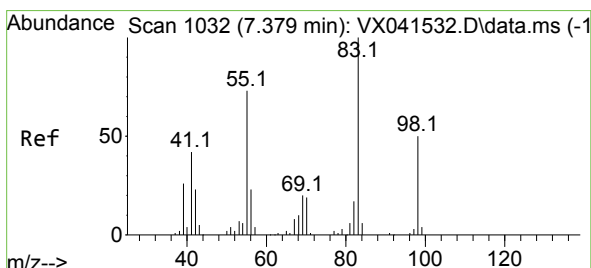
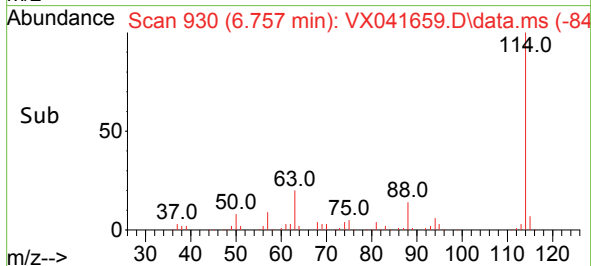
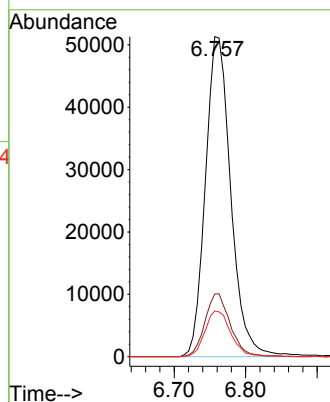
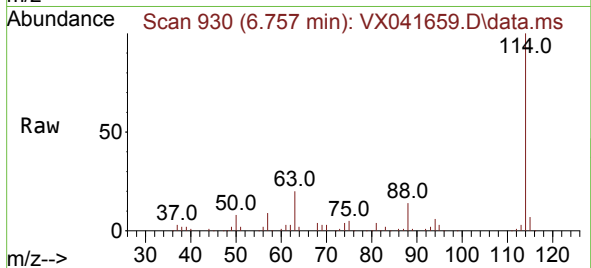
Tgt Ion:114 Resp: 126315

Ion Ratio Lower Upper

114 100

63 19.6 15.4 23.0

88 14.4 12.2 18.2



#38

Methylcyclohexane

Concen: 0.614 ug/l

RT: 7.824 min Scan# 1105

Delta R.T. 0.445 min

Lab File: VX041659.D

Acq: 28 May 2024 12:48

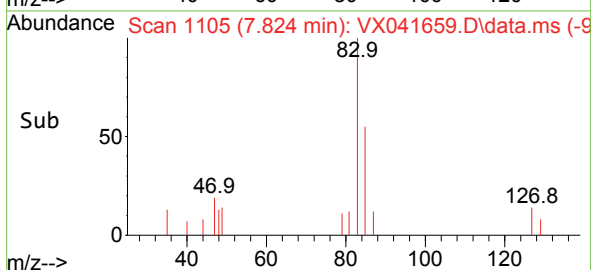
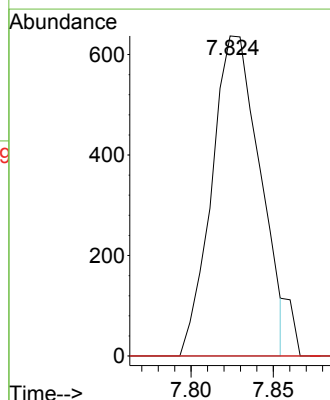
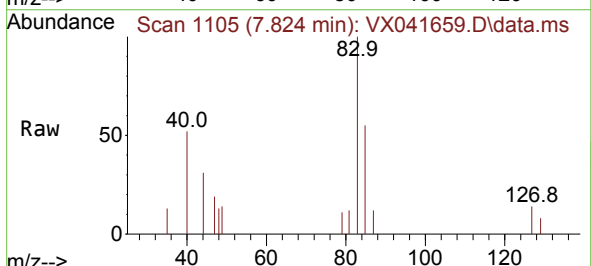
Tgt Ion: 83 Resp: 1302

Ion Ratio Lower Upper

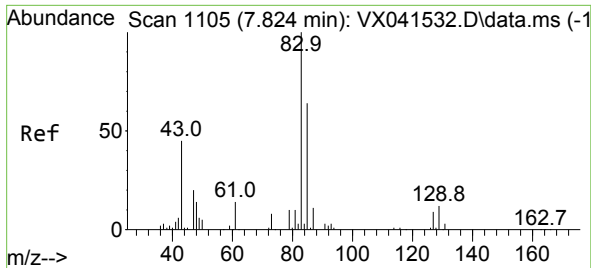
83 100

55 0.0 37.7 113.1#

98 0.0 25.1 75.3#

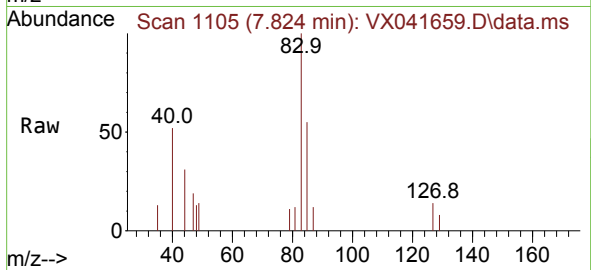




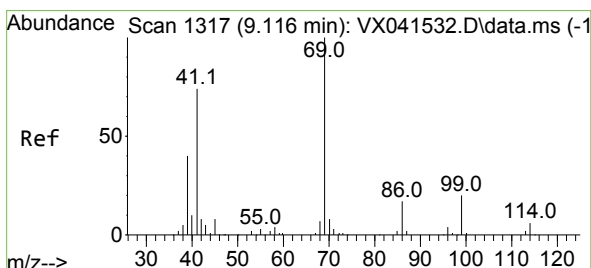
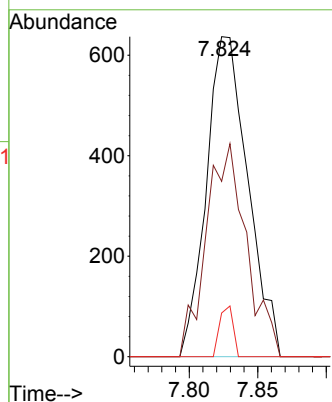
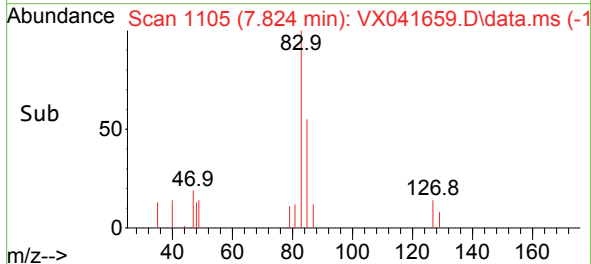


#41  
Bromodichloromethane  
Concen: 0.729 ug/l  
RT: 7.824 min Scan# 1105  
Delta R.T. 0.000 min  
Lab File: VX041659.D  
Acq: 28 May 2024 12:48

Instrument :  
MSVOA\_X  
ClientSampleId :

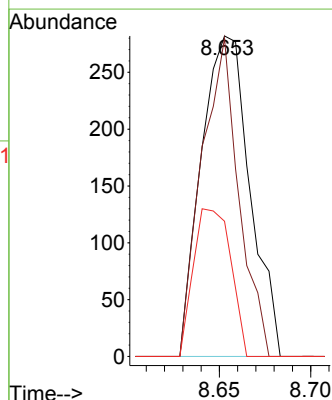
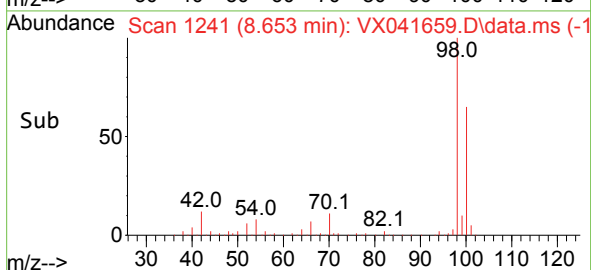
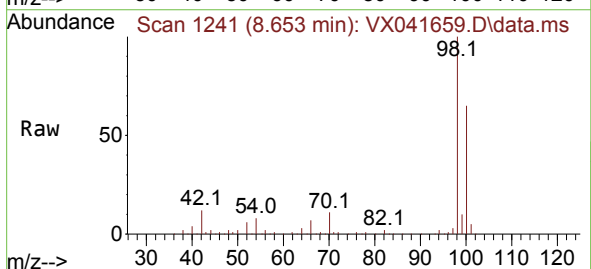


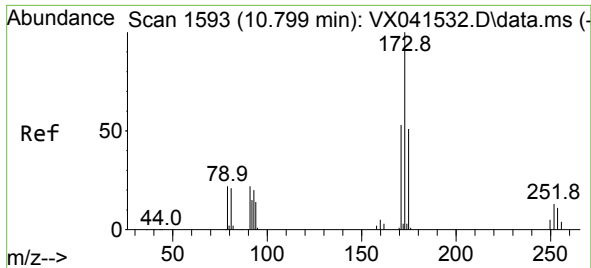
Tgt Ion: 83 Resp: 1343  
Ion Ratio Lower Upper  
83 100  
85 54.8 51.0 76.4  
127 13.7 7.1 10.7#



#51  
Ethyl methacrylate  
Concen: 0.237 ug/l  
RT: 8.653 min Scan# 1241  
Delta R.T. -0.463 min  
Lab File: VX041659.D  
Acq: 28 May 2024 12:48

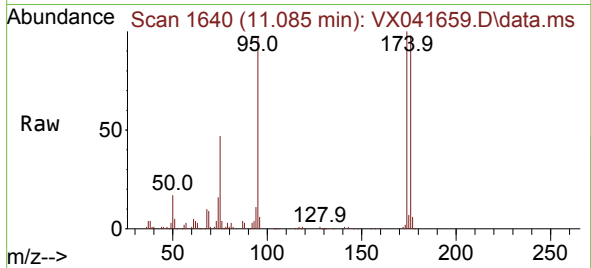
Tgt Ion: 69 Resp: 522  
Ion Ratio Lower Upper  
69 100  
41 99.3 37.1 111.3  
39 42.2 20.2 60.6



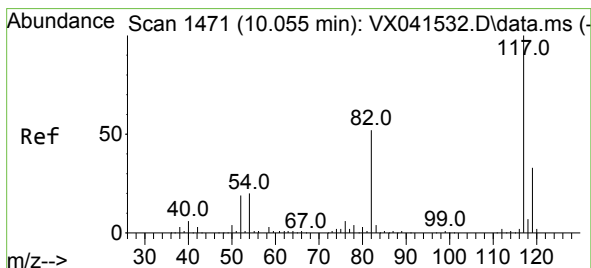
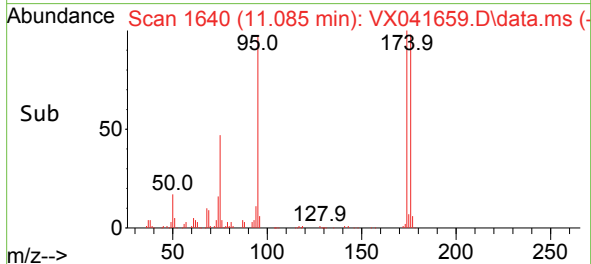
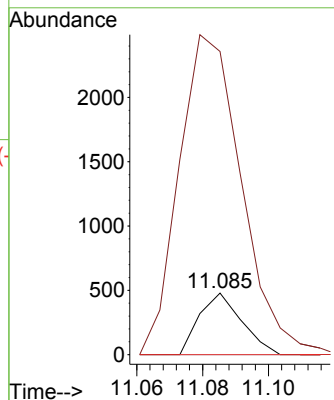


#56  
Bromoform  
Concen: 0.345 ug/l  
RT: 11.085 min Scan# 11  
Delta R.T. 0.287 min  
Lab File: VX041659.D  
Acq: 28 May 2024 12:48

Instrument :  
MSVOA\_X  
ClientSampleId :

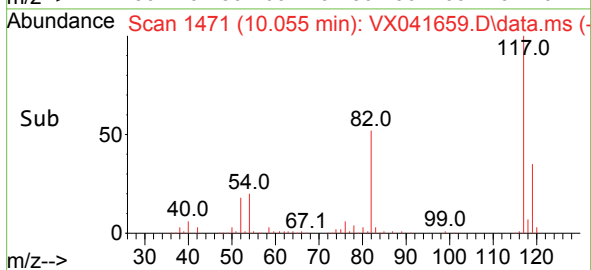
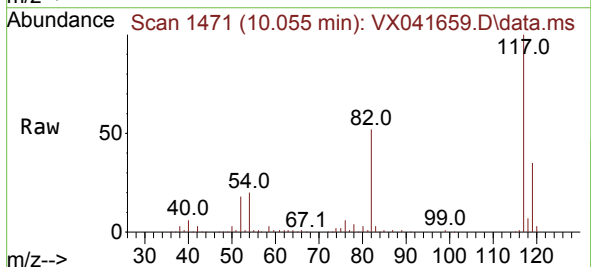
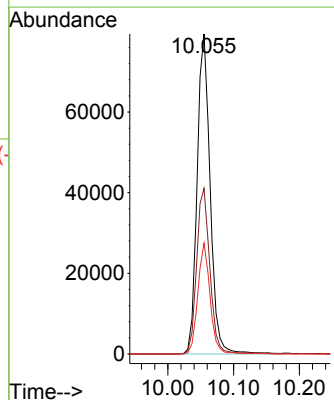


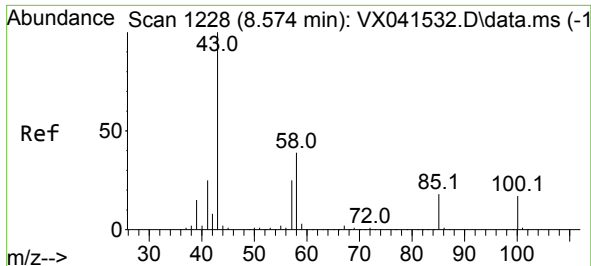
Tgt Ion:173 Resp: 429  
Ion Ratio Lower Upper  
173 100  
175 766.9 39.0 58.6#  
254 0.0 10.3 15.5#



#57  
Chlorobenzene-d5  
Concen: 30.000 ug/l  
RT: 10.055 min Scan# 1471  
Delta R.T. 0.000 min  
Lab File: VX041659.D  
Acq: 28 May 2024 12:48

Tgt Ion:117 Resp: 109449  
Ion Ratio Lower Upper  
117 100  
82 52.1 41.7 62.5  
119 32.5 25.7 38.5





#58

4-Methyl-2-Pentanone

Concen: 0.438 ug/l

RT: 8.567 min Scan# 11

Delta R.T. -0.006 min

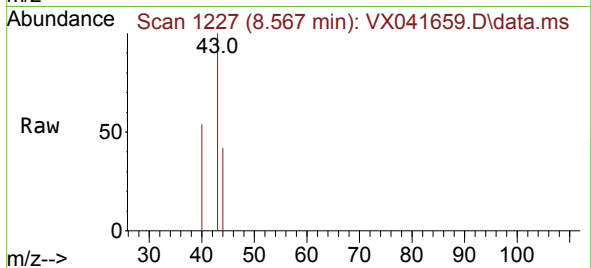
Lab File: VX041659.D

Acq: 28 May 2024 12:48

Instrument :

MSVOA\_X

ClientSampleId :



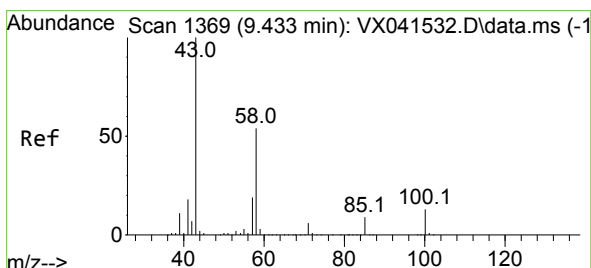
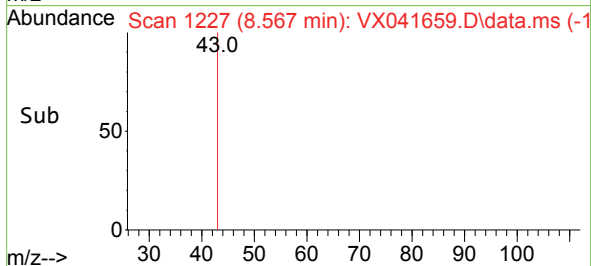
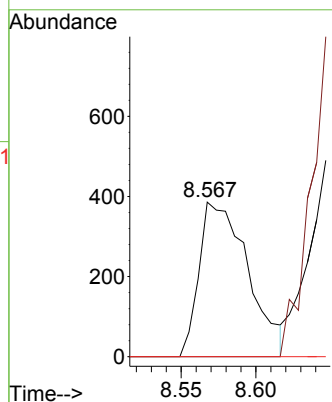
Tgt Ion: 43 Resp: 875

Ion Ratio Lower Upper

43 100

58 0.0 30.2 45.4#

85 0.0 14.6 21.8#



#59

2-Hexanone

Concen: 0.430 ug/l

RT: 9.531 min Scan# 1385

Delta R.T. 0.098 min

Lab File: VX041659.D

Acq: 28 May 2024 12:48

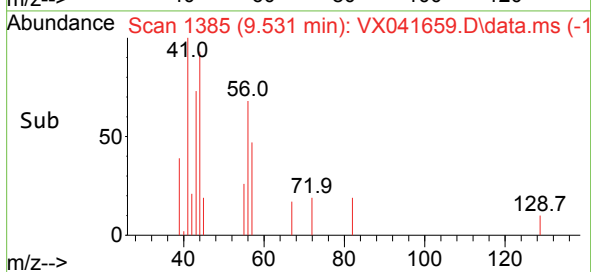
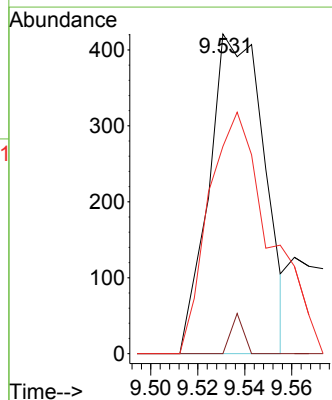
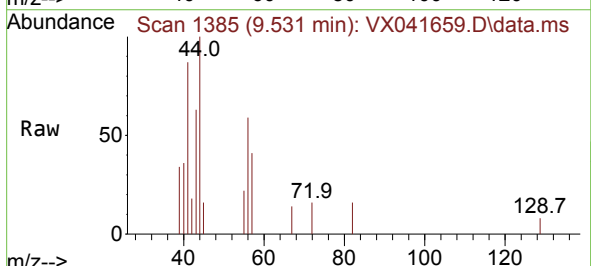
Tgt Ion: 43 Resp: 685

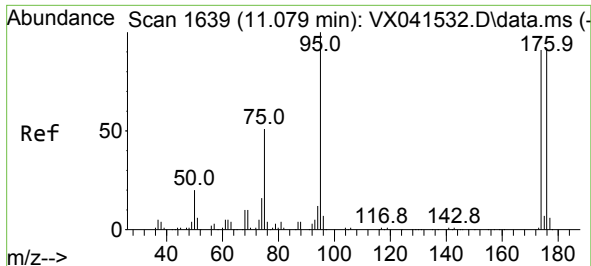
Ion Ratio Lower Upper

43 100

58 0.0 42.3 63.5#

57 68.3 15.1 22.7#

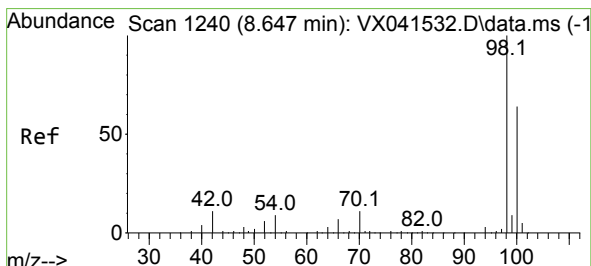
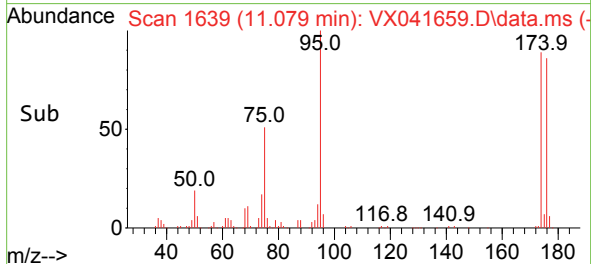
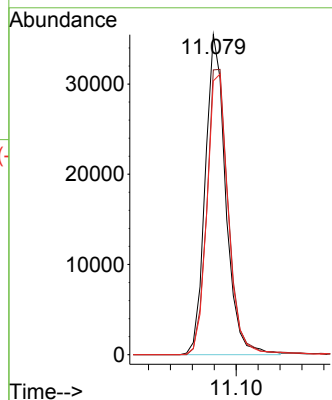
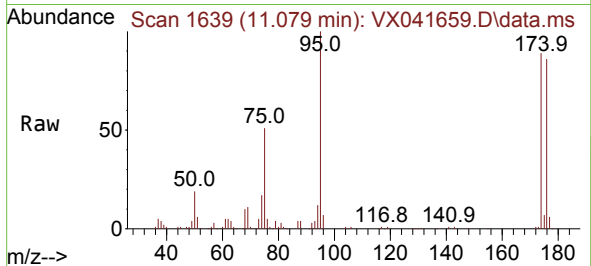




#60  
4-Bromofluorobenzene  
Concen: 26.883 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. 0.000 min  
Lab File: VX041659.D  
Acq: 28 May 2024 12:48

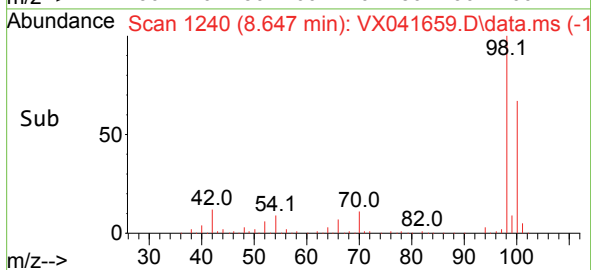
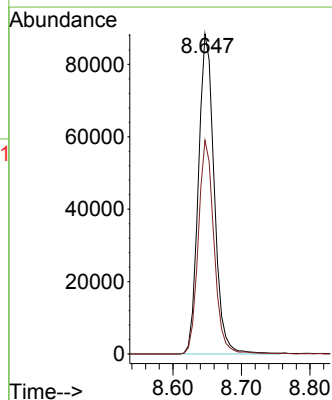
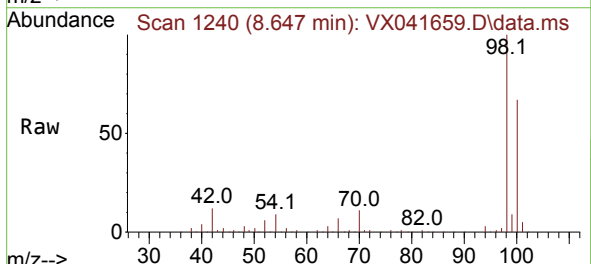
Instrument :  
MSVOA\_X  
ClientSampleId :

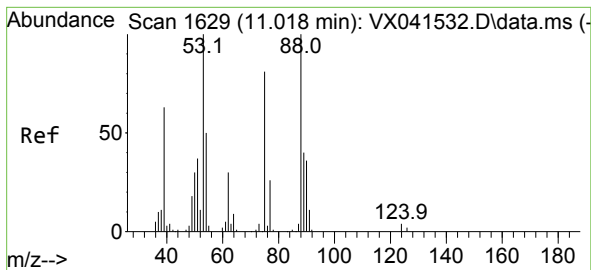
Tgt Ion: 95 Resp: 45931  
Ion Ratio Lower Upper  
95 100  
174 93.5 76.6 115.0  
176 91.7 75.4 113.0



#63  
Toluene-d8  
Concen: 30.304 ug/l  
RT: 8.647 min Scan# 1240  
Delta R.T. 0.000 min  
Lab File: VX041659.D  
Acq: 28 May 2024 12:48

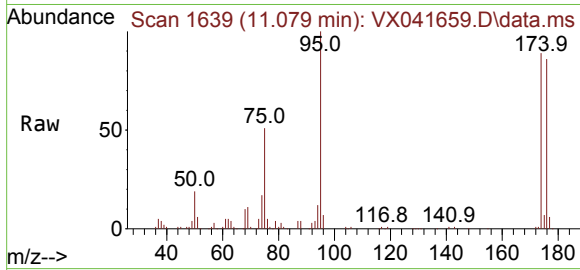
Tgt Ion: 98 Resp: 142173  
Ion Ratio Lower Upper  
98 100  
100 65.7 53.1 79.7





#77  
t-1,4-Dichloro-2-butene  
Concen: 39.270 ug/l  
RT: 11.079 min Scan# 1  
Delta R.T. 0.061 min  
Lab File: VX041659.D  
Acq: 28 May 2024 12:48

Instrument :  
MSVOA\_X  
ClientSampleId :



| Tgt Ion: | 75    | Resp: | 23001  |
|----------|-------|-------|--------|
| Ion      | Ratio | Lower | Upper  |
| 75       | 100   |       |        |
| 53       | 0.0   | 61.8  | 185.3# |
| 89       | 0.0   | 24.9  | 74.7#  |

