

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX111122\  
 Data File : VX032765.D  
 Acq On : 11 Nov 2022 11:32  
 Operator : JC/MD  
 Sample : N5532-07  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :

Quant Time: Nov 14 05:10:39 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\624X111022W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Fri Nov 11 05:24:06 2022  
 Response via : Initial Calibration

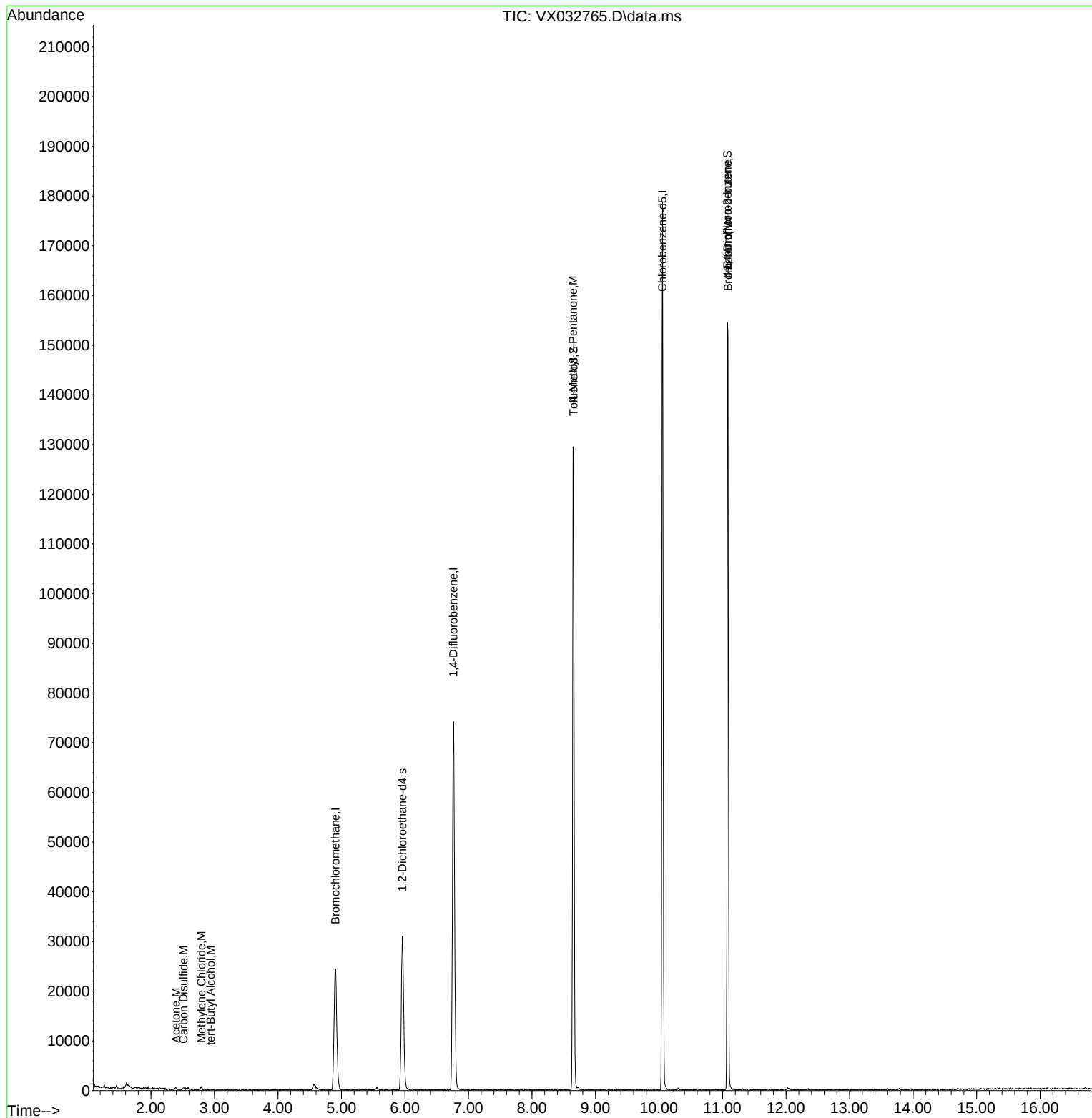
| Compound                    | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-----------------------------|--------|-------|----------|----------|--------|----------|
| -----                       |        |       |          |          |        |          |
| Internal Standards          |        |       |          |          |        |          |
| 1) Bromochloromethane       | 4.904  | 128   | 10753    | 30.000   | ug/l   | 0.00     |
| 28) 1,4-Difluorobenzene     | 6.763  | 114   | 74298    | 30.000   | ug/l   | 0.00     |
| 57) Chlorobenzene-d5        | 10.055 | 117   | 78043    | 30.000   | ug/l   | 0.00     |
| System Monitoring Compounds |        |       |          |          |        |          |
| 27) 1,2-Dichloroethane-d4   | 5.958  | 65    | 31281    | 30.154   | ug/l   | 0.00     |
| Spiked Amount               | 30.000 | Range | 91 - 110 | Recovery | =      | 100.500% |
| 60) 4-Bromofluorobenzene    | 11.079 | 95    | 40433    | 27.084   | ug/l   | 0.00     |
| Spiked Amount               | 30.000 | Range | 63 - 112 | Recovery | =      | 90.267%  |
| 63) Toluene-d8              | 8.653  | 98    | 79044    | 30.012   | ug/l   | 0.00     |
| Spiked Amount               | 30.000 | Range | 91 - 112 | Recovery | =      | 100.033% |
| Target Compounds            |        |       |          |          |        |          |
|                             |        |       |          |          |        | Qvalue   |
| 15) Acetone                 | 2.392  | 58    | 94       | 0.651    | ug/l   | 99       |
| 16) Carbon Disulfide        | 2.514  | 76    | 559      | 0.215    | ug/l # | 74       |
| 18) Methylene Chloride      | 2.794  | 84    | 301      | 0.250    | ug/l   | 94       |
| 23) tert-Butyl Alcohol      | 2.941  | 59    | 102      | 0.566    | ug/l # | 100      |
| 56) Bromoform               | 11.085 | 173   | 354      | 0.369    | ug/l # | 1        |
| 58) 4-Methyl-2-Pentanone    | 8.647  | 43    | 364      | 0.238    | ug/l # | 1        |
| 77) t-1,4-Dichloro-2-butene | 11.079 | 75    | 22228    | 47.642   | ug/l # | 8        |
| -----                       |        |       |          |          |        |          |

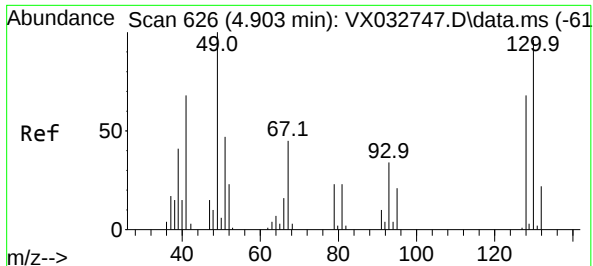
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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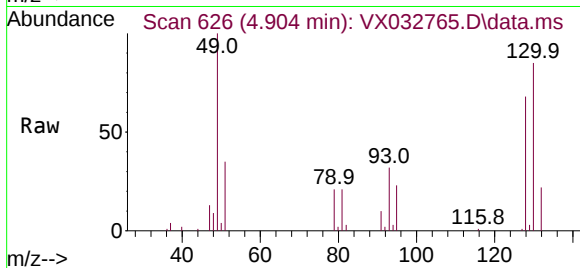
Quant Time: Nov 14 05:10:39 2022  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\624X111022W.M  
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
QLast Update : Fri Nov 11 05:24:06 2022  
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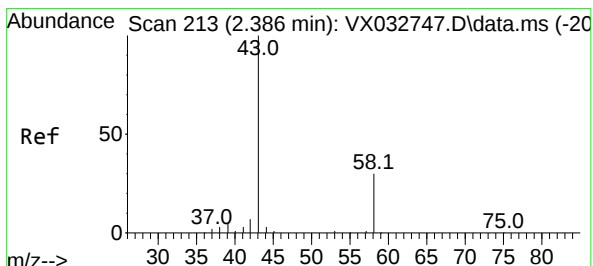
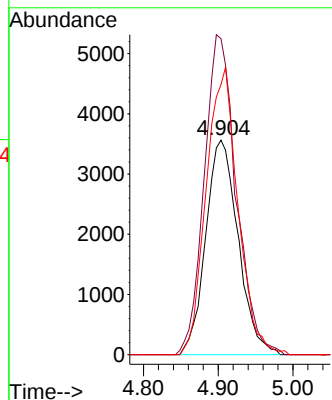
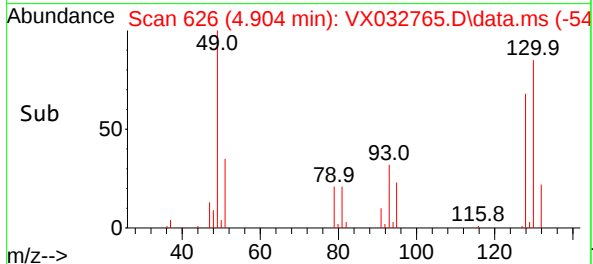


#1  
Bromochloromethane  
Concen: 30.000 ug/l  
RT: 4.904 min Scan# 61  
Delta R.T. 0.001 min  
Lab File: VX032765.D  
Acq: 11 Nov 2022 11:32

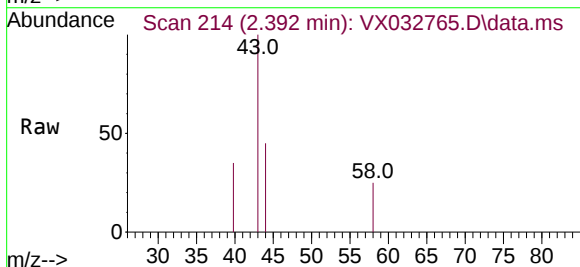
Instrument :  
MSVOA\_X  
ClientSampleId :



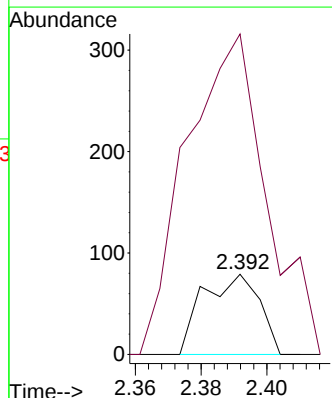
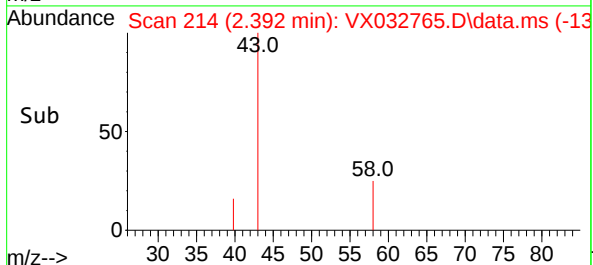
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 49      | 147.0 | 0.0   | 293.0 |
| 130     | 130.6 | 0.0   | 321.5 |

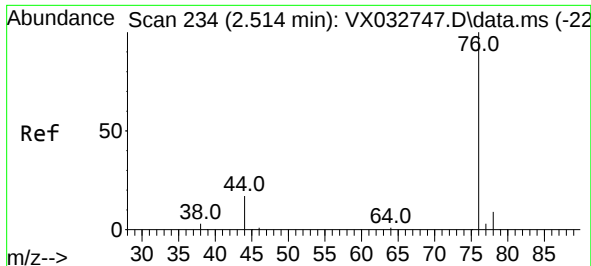


#15  
Acetone  
Concen: 0.651 ug/l  
RT: 2.392 min Scan# 214  
Delta R.T. 0.006 min  
Lab File: VX032765.D  
Acq: 11 Nov 2022 11:32



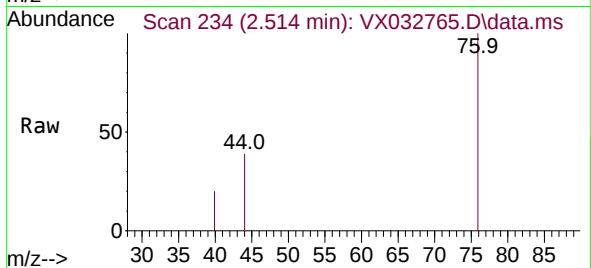
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 58      | 100   |       |       |
| 43      | 301.3 | 242.6 | 364.0 |



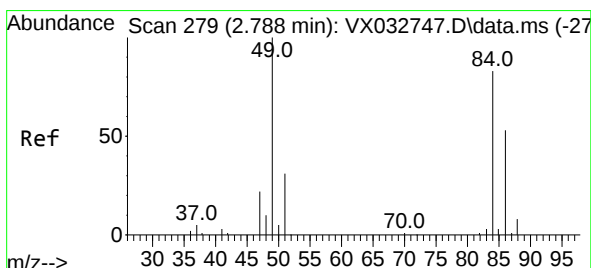
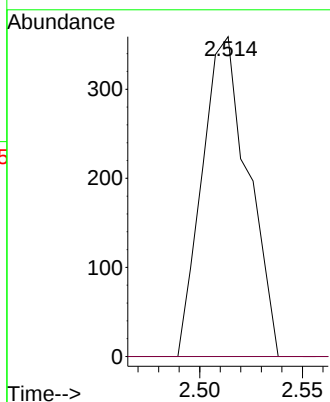
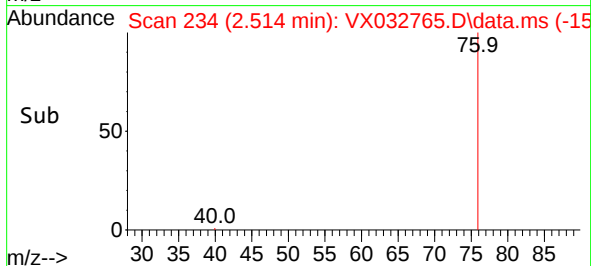


#16  
Carbon Disulfide  
Concen: 0.215 ug/l  
RT: 2.514 min Scan# 21  
Delta R.T. 0.000 min  
Lab File: VX032765.D  
Acq: 11 Nov 2022 11:32

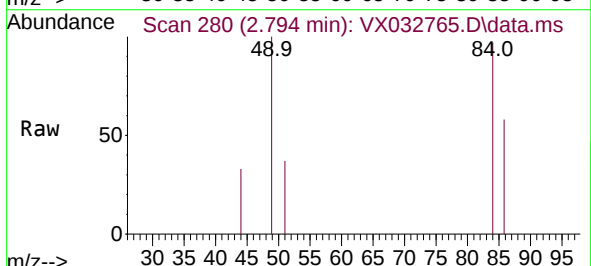
Instrument :  
MSVOA\_X  
ClientSampleId :



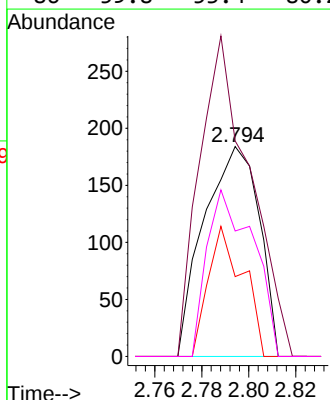
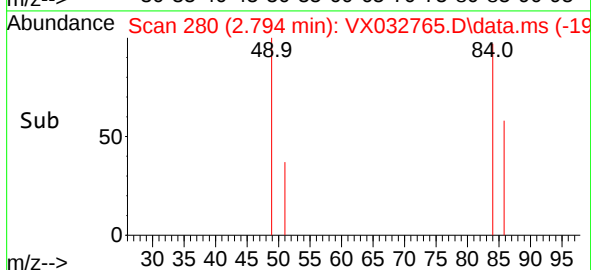
Tgt Ion: 76 Resp: 559  
Ion Ratio Lower Upper  
76 100  
78 0.0 7.5 11.3#

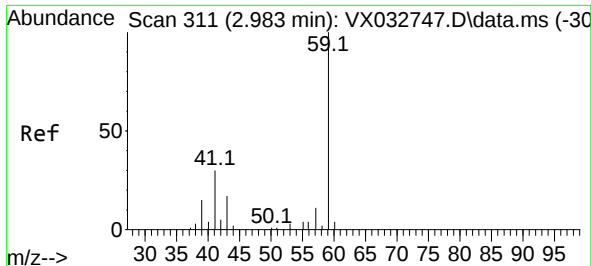


#18  
Methylene Chloride  
Concen: 0.250 ug/l  
RT: 2.794 min Scan# 280  
Delta R.T. 0.006 min  
Lab File: VX032765.D  
Acq: 11 Nov 2022 11:32



Tgt Ion: 84 Resp: 301  
Ion Ratio Lower Upper  
84 100  
49 102.7 84.6 127.0  
51 38.0 26.5 39.7  
86 59.8 53.4 80.2





#23

tert-Butyl Alcohol

Concen: 0.566 ug/l

RT: 2.941 min Scan# 304

Delta R.T. -0.043 min

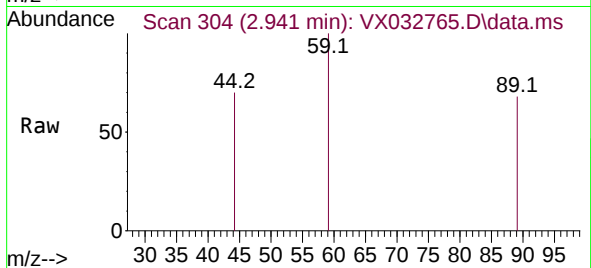
Lab File: VX032765.D

Acq: 11 Nov 2022 11:32

Instrument :

MSVOA\_X

ClientSampleId :

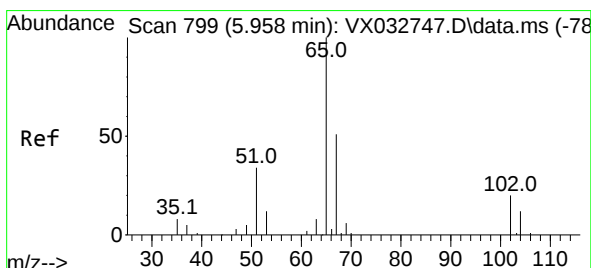
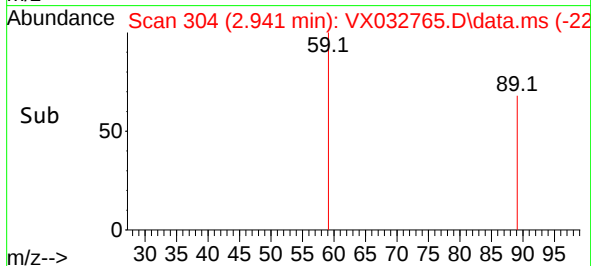
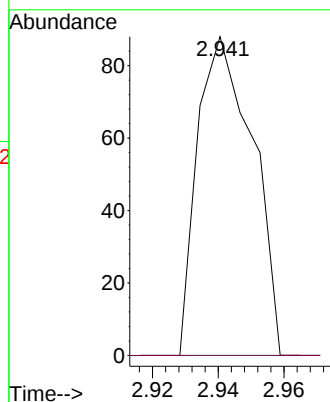


Tgt Ion: 59 Resp: 102

Ion Ratio Lower Upper

59 100

52 0.0 0.0 0.0



#27

1,2-Dichloroethane-d4

Concen: 30.154 ug/l

RT: 5.958 min Scan# 799

Delta R.T. 0.000 min

Lab File: VX032765.D

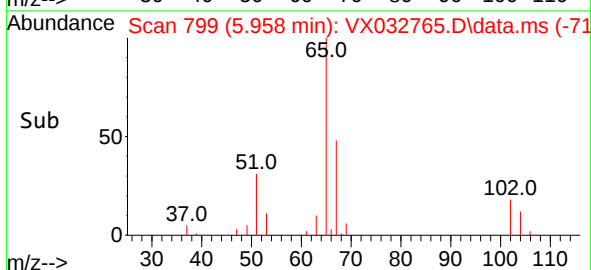
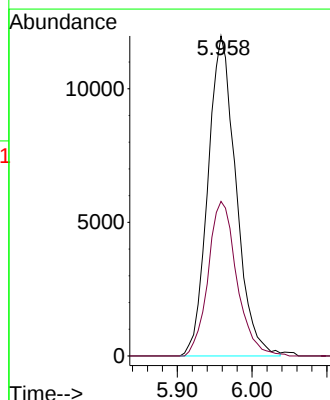
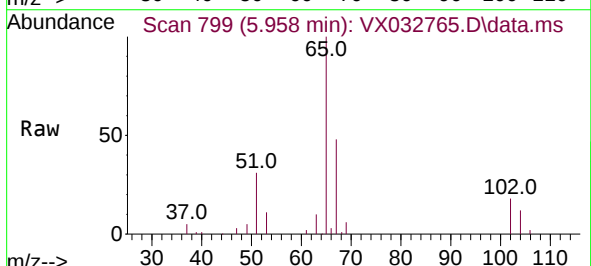
Acq: 11 Nov 2022 11:32

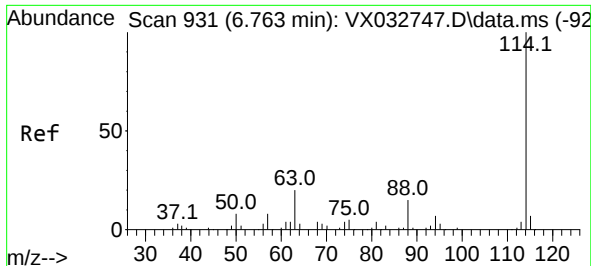
Tgt Ion: 65 Resp: 31281

Ion Ratio Lower Upper

65 100

67 49.4 41.8 62.6





#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 6.763 min Scan# 91

Delta R.T. 0.000 min

Lab File: VX032765.D

Acq: 11 Nov 2022 11:32

Instrument :

MSVOA\_X

ClientSampleId :

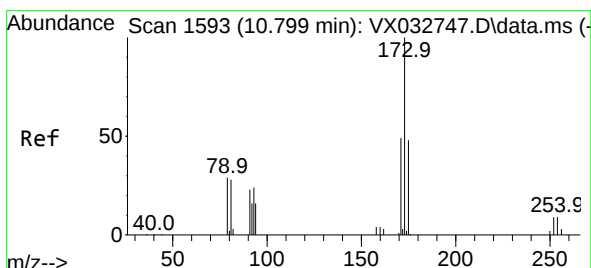
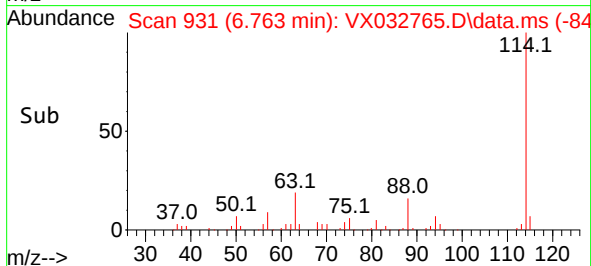
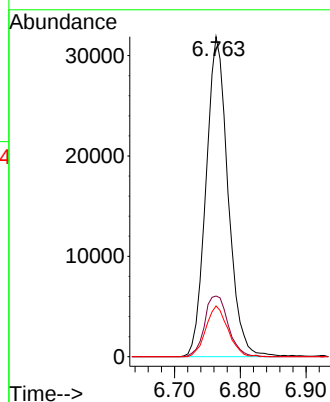
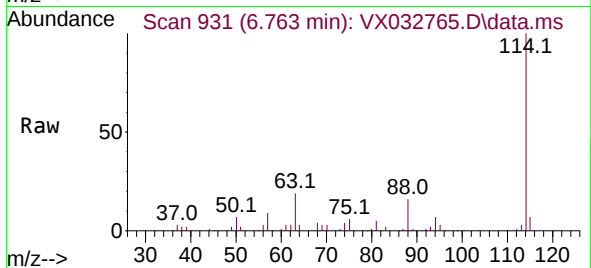
Tgt Ion:114 Resp: 74298

Ion Ratio Lower Upper

114 100

63 20.4 13.6 20.4

88 15.8 11.8 17.6



#56

Bromoform

Concen: 0.369 ug/l

RT: 11.085 min Scan# 1640

Delta R.T. 0.287 min

Lab File: VX032765.D

Acq: 11 Nov 2022 11:32

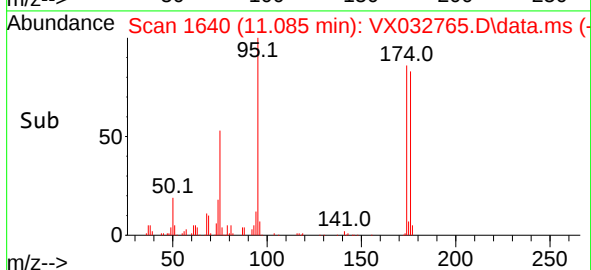
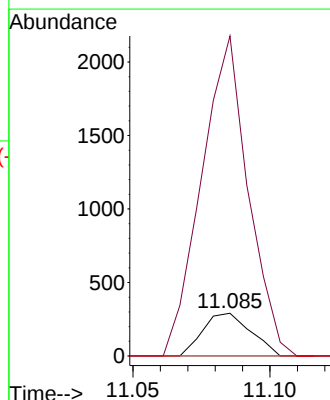
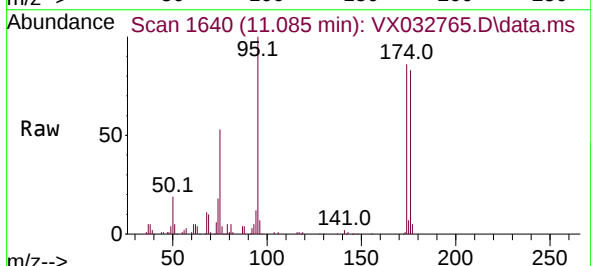
Tgt Ion:173 Resp: 354

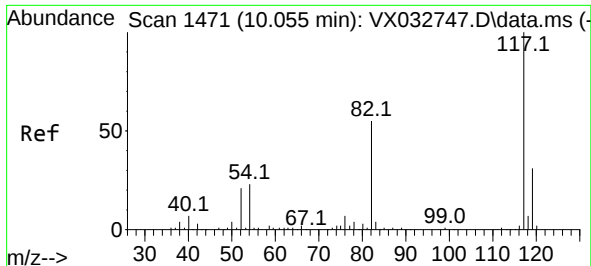
Ion Ratio Lower Upper

173 100

175 729.9 38.6 58.0#

254 0.0 6.8 10.2#





#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 10.055 min Scan# 1471

Delta R.T. 0.000 min

Lab File: VX032765.D

Acq: 11 Nov 2022 11:32

Instrument :

MSVOA\_X

ClientSampleId :

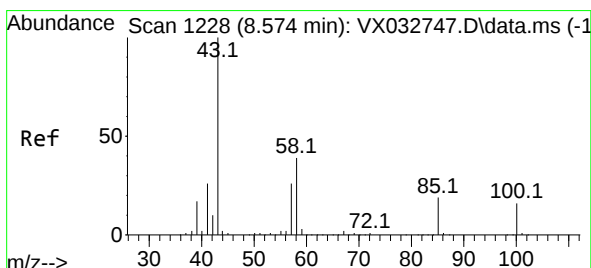
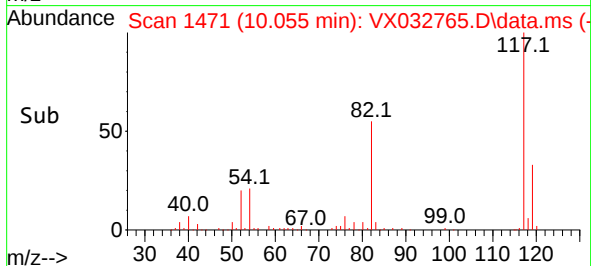
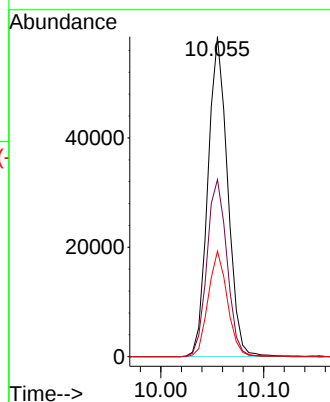
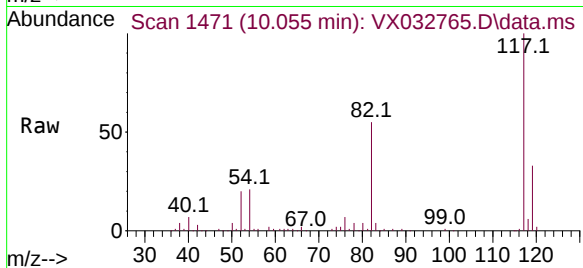
Tgt Ion:117 Resp: 78043

Ion Ratio Lower Upper

117 100

82 56.2 40.0 60.0

119 32.0 26.0 39.0



#58

4-Methyl-2-Pentanone

Concen: 0.238 ug/l

RT: 8.647 min Scan# 1240

Delta R.T. 0.073 min

Lab File: VX032765.D

Acq: 11 Nov 2022 11:32

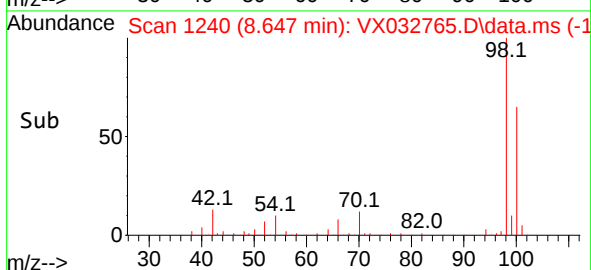
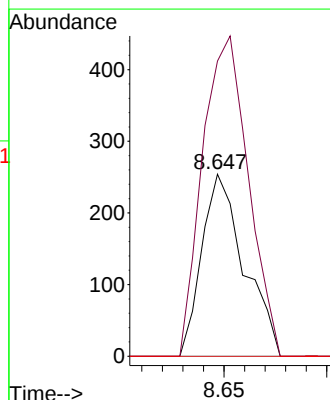
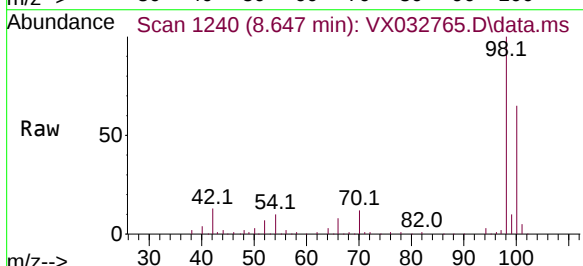
Tgt Ion: 43 Resp: 364

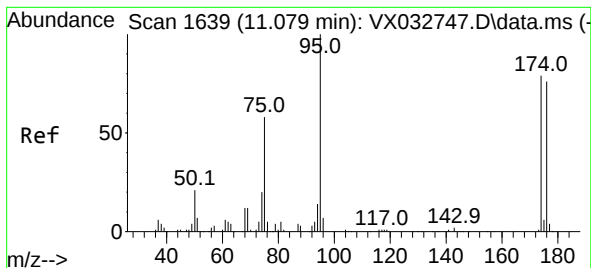
Ion Ratio Lower Upper

43 100

58 190.4 34.9 52.3#

85 0.0 19.4 29.2#

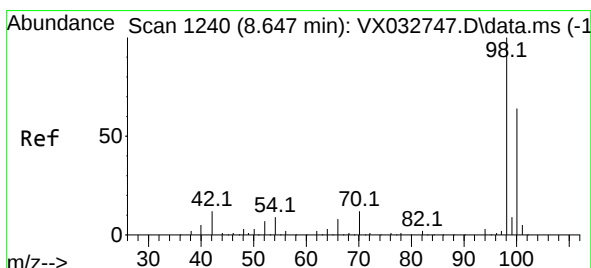
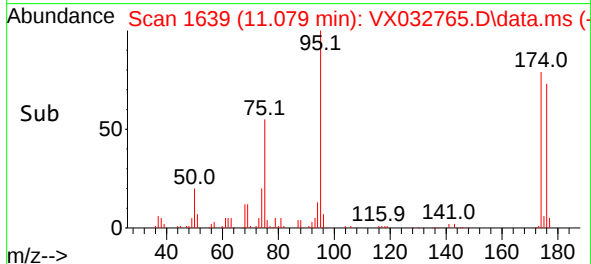
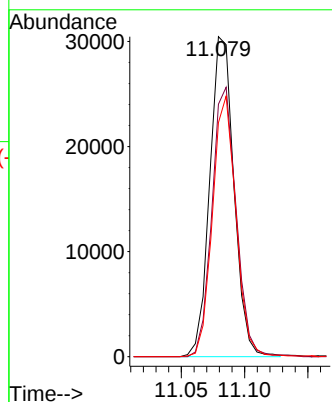
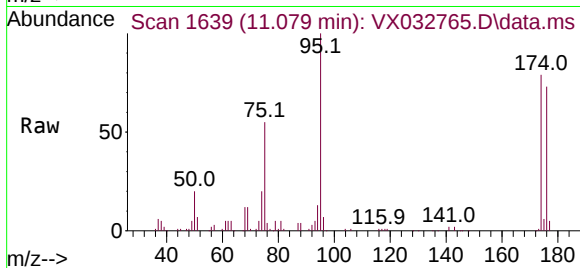




#60  
4-Bromofluorobenzene  
Concen: 27.084 ug/l  
RT: 11.079 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VX032765.D  
Acq: 11 Nov 2022 11:32

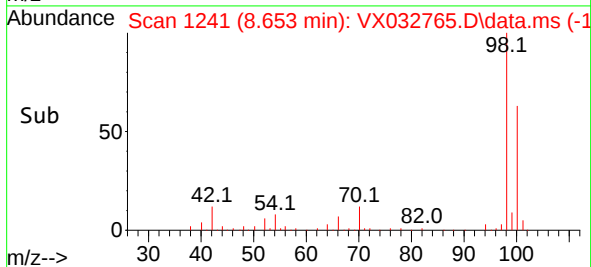
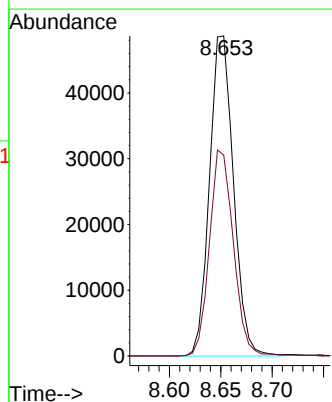
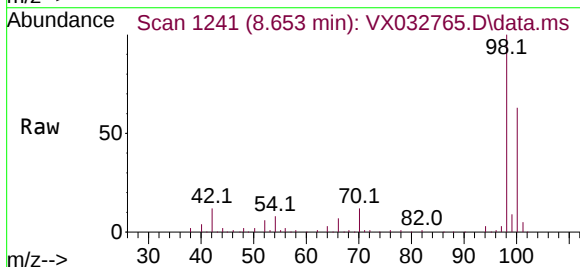
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ClientSampleId :

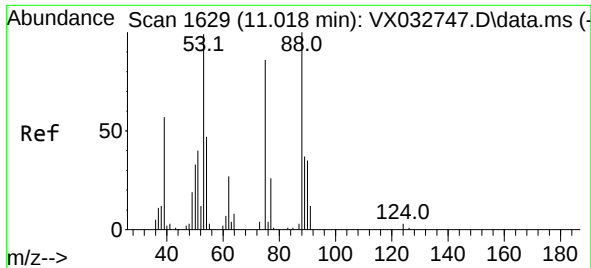
Tgt Ion: 95 Resp: 40433  
Ion Ratio Lower Upper  
95 100  
174 84.1 68.2 102.2  
176 78.6 68.1 102.1



#63  
Toluene-d8  
Concen: 30.012 ug/l  
RT: 8.653 min Scan# 1241  
Delta R.T. 0.006 min  
Lab File: VX032765.D  
Acq: 11 Nov 2022 11:32

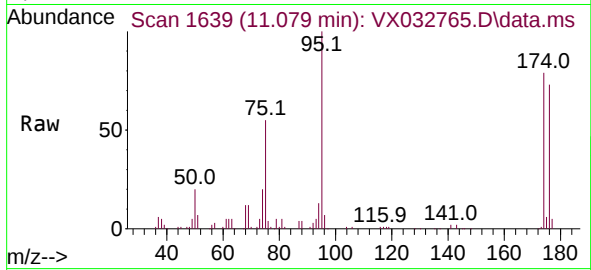
Tgt Ion: 98 Resp: 79044  
Ion Ratio Lower Upper  
98 100  
100 63.9 53.8 80.8





#77  
 t-1,4-Dichloro-2-butene  
 Concen: 47.642 ug/l  
 RT: 11.079 min Scan# 1  
 Delta R.T. 0.061 min  
 Lab File: VX032765.D  
 Acq: 11 Nov 2022 11:32

Instrument :  
 MSVOA\_X  
 ClientSampleId :



Tgt Ion: 75 Resp: 22228  
 Ion Ratio Lower Upper  
 75 100  
 53 0.0 51.8 155.4#  
 89 0.0 22.9 68.8#

