

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX061523\  
 Data File : VX036166.D  
 Acq On : 15 Jun 2023 13:47  
 Operator : JC/MD  
 Sample : VX0615WBL01  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VX0615WBL01

Quant Time: Jun 16 07:54:06 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\624X052323W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Tue May 23 11:36:37 2023  
 Response via : Initial Calibration

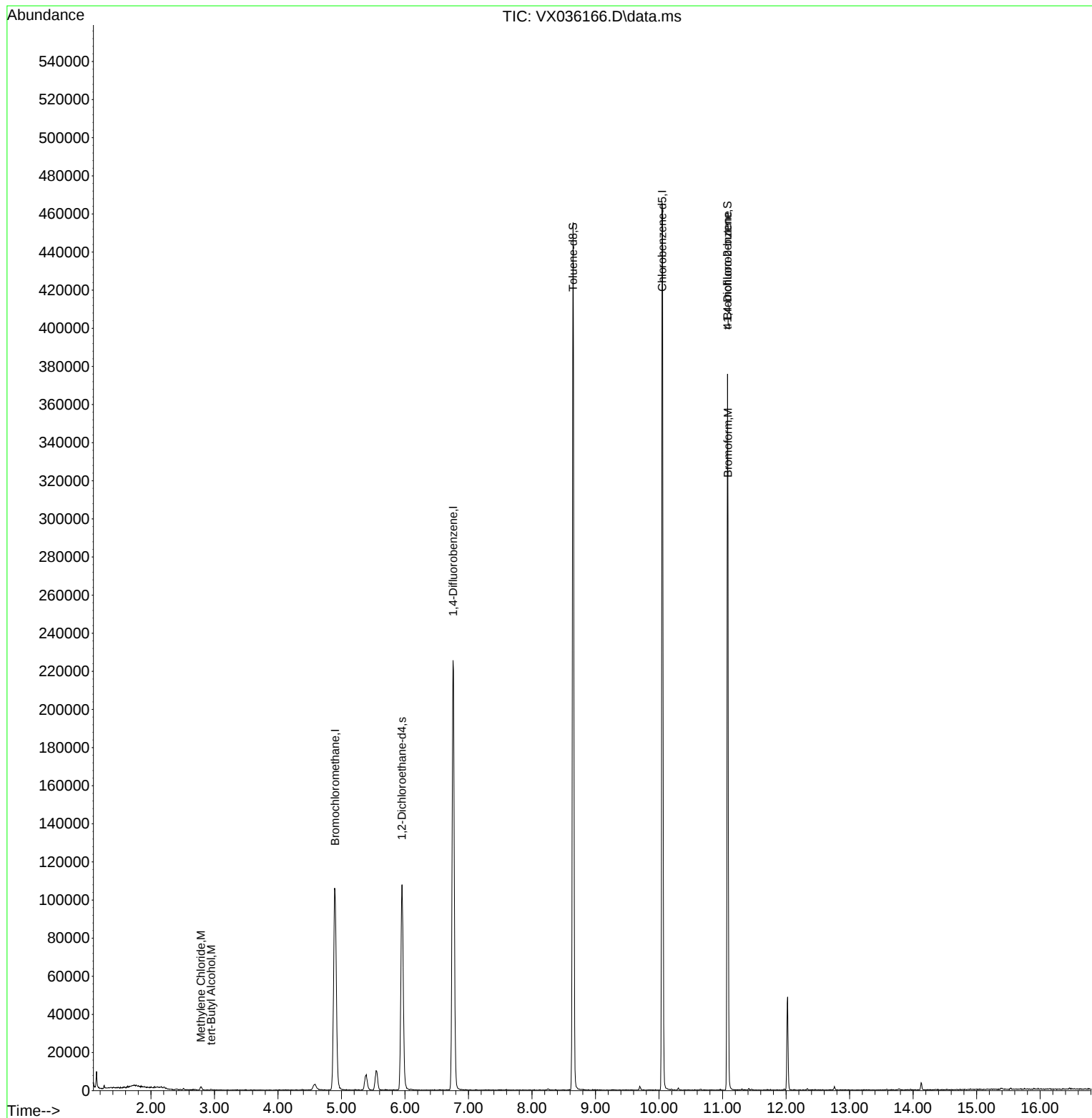
| Compound                    | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-----------------------------|--------|-------|----------|----------|--------|----------|
| -----                       |        |       |          |          |        |          |
| Internal Standards          |        |       |          |          |        |          |
| 1) Bromochloromethane       | 4.897  | 128   | 42375    | 30.000   | ug/l   | 0.00     |
| 28) 1,4-Difluorobenzene     | 6.757  | 114   | 215006   | 30.000   | ug/l   | 0.00     |
| 57) Chlorobenzene-d5        | 10.049 | 117   | 197202   | 30.000   | ug/l   | 0.00     |
| System Monitoring Compounds |        |       |          |          |        |          |
| 27) 1,2-Dichloroethane-d4   | 5.952  | 65    | 110254   | 31.314   | ug/l   | 0.00     |
| Spiked Amount               | 30.000 | Range | 91 - 110 | Recovery | =      | 104.367% |
| 60) 4-Bromofluorobenzene    | 11.079 | 95    | 99210    | 29.982   | ug/l   | 0.00     |
| Spiked Amount               | 30.000 | Range | 63 - 112 | Recovery | =      | 99.933%  |
| 63) Toluene-d8              | 8.647  | 98    | 249332   | 28.600   | ug/l   | 0.00     |
| Spiked Amount               | 30.000 | Range | 91 - 112 | Recovery | =      | 95.333%  |
| Target Compounds            |        |       |          |          |        |          |
|                             |        |       |          |          | Qvalue |          |
| 18) Methylene Chloride      | 2.788  | 84    | 759      | 0.274    | ug/l # | 84       |
| 23) tert-Butyl Alcohol      | 2.947  | 59    | 215      | 0.391    | ug/l # | 100      |
| 56) Bromoform               | 11.085 | 173   | 680      | 0.465    | ug/l # | 1        |
| 77) t-1,4-Dichloro-2-butene | 11.079 | 75    | 56448    | 55.264   | ug/l # | 4        |
| -----                       |        |       |          |          |        |          |

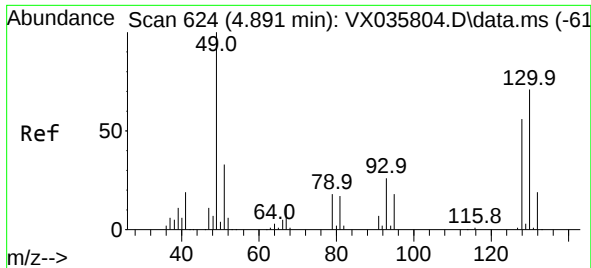
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Misc : 5.0mL/MSVOA\_X/WATER  
ALS Vial : 5 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0615WBL01

Quant Time: Jun 16 07:54:06 2023  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\624X052323W.M  
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
QLast Update : Tue May 23 11:36:37 2023  
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 4.897 min Scan# 61

Delta R.T. 0.006 min

Lab File: VX036166.D

Acq: 15 Jun 2023 13:47

Instrument :

MSVOA\_X

ClientSampleId :

VX0615WBL01

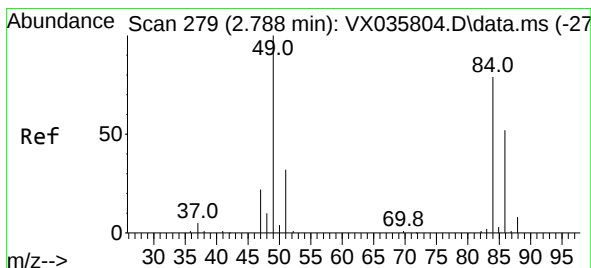
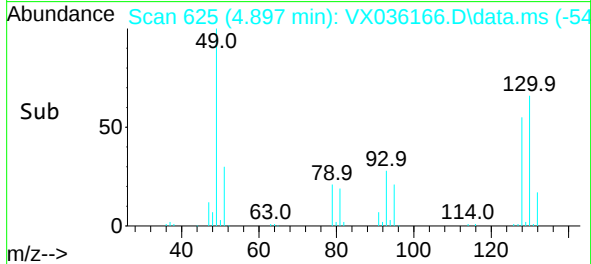
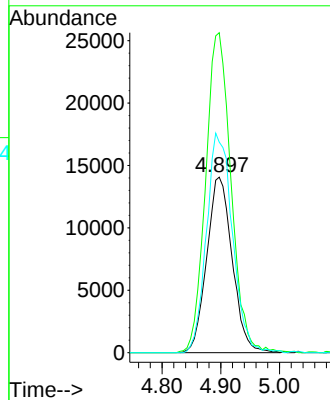
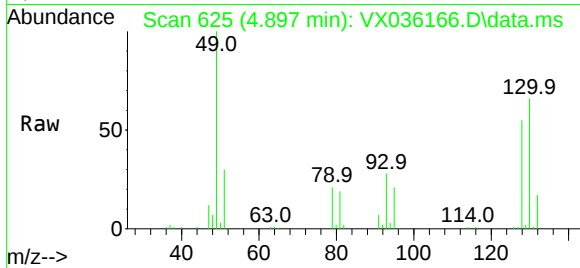
Tgt Ion:128 Resp: 42375

Ion Ratio Lower Upper

128 100

49 180.4 0.0 428.8

130 126.7 0.0 310.8



#18

Methylene Chloride

Concen: 0.274 ug/l

RT: 2.788 min Scan# 279

Delta R.T. 0.000 min

Lab File: VX036166.D

Acq: 15 Jun 2023 13:47

Tgt Ion: 84 Resp: 759

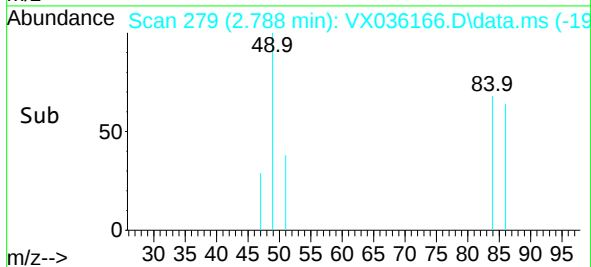
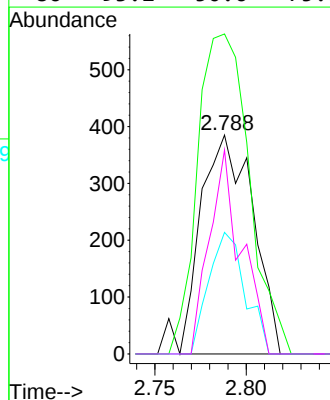
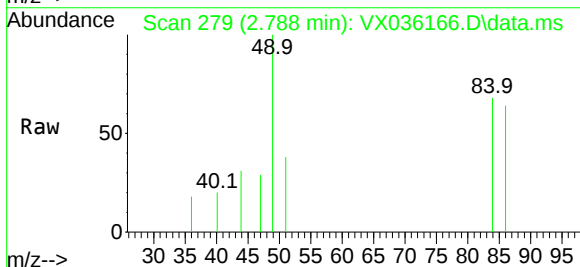
Ion Ratio Lower Upper

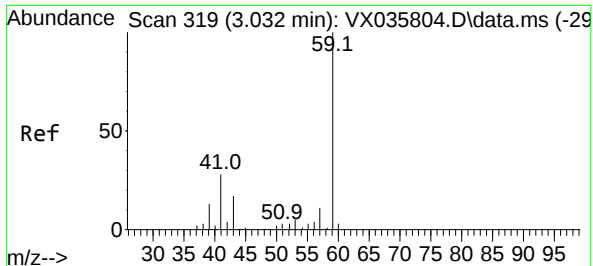
84 100

49 131.7 103.9 155.9

51 55.6 30.6 45.8#

86 93.2 50.6 75.8#

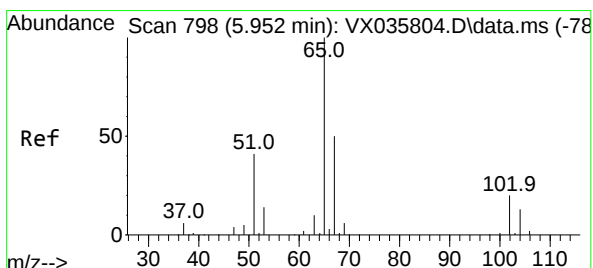
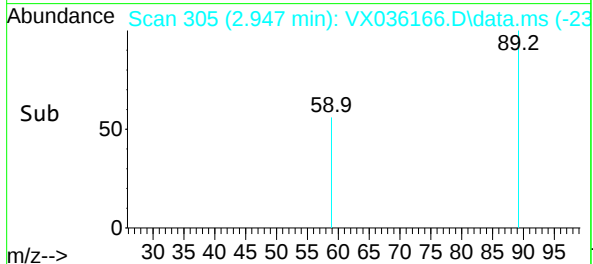
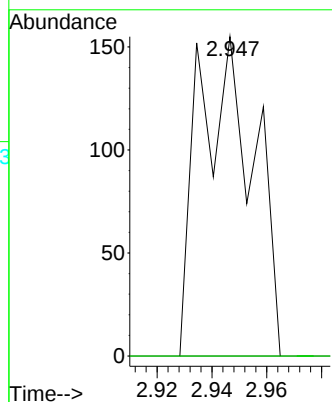
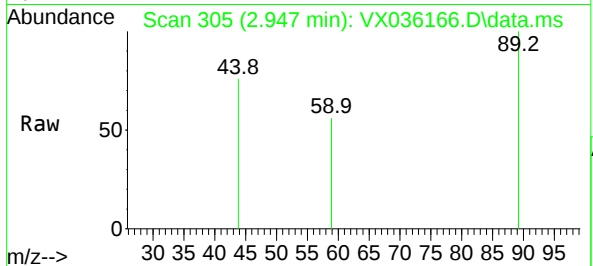




#23  
tert-Butyl Alcohol  
Concen: 0.391 ug/l  
RT: 2.947 min Scan# 305  
Delta R.T. -0.085 min  
Lab File: VX036166.D  
Acq: 15 Jun 2023 13:47

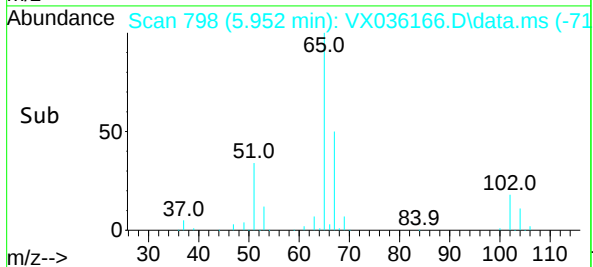
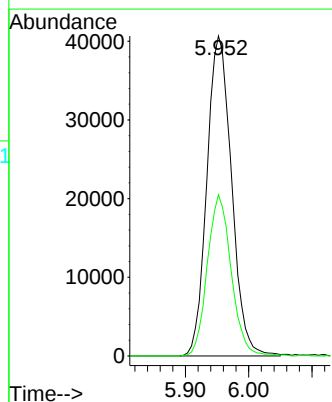
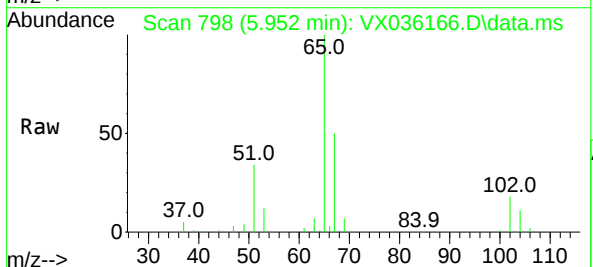
Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0615WBL01

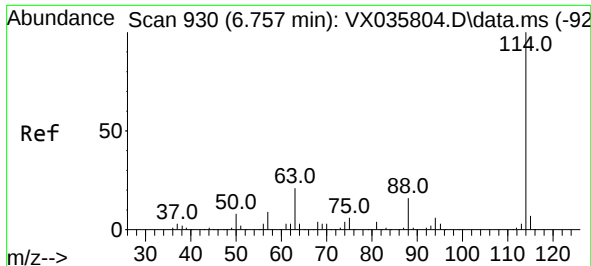
Tgt Ion: 59 Resp: 215  
Ion Ratio Lower Upper  
59 100  
52 0.0 0.2 0.4#



#27  
1,2-Dichloroethane-d4  
Concen: 31.314 ug/l  
RT: 5.952 min Scan# 798  
Delta R.T. 0.000 min  
Lab File: VX036166.D  
Acq: 15 Jun 2023 13:47

Tgt Ion: 65 Resp: 110254  
Ion Ratio Lower Upper  
65 100  
67 48.4 40.9 61.3

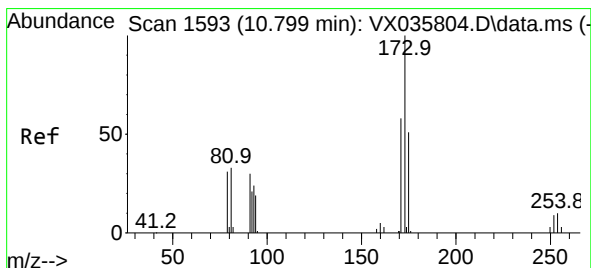
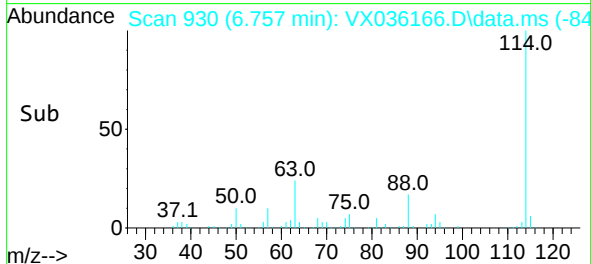
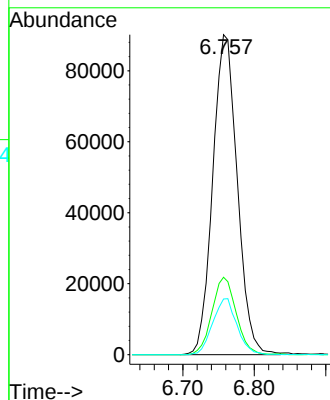
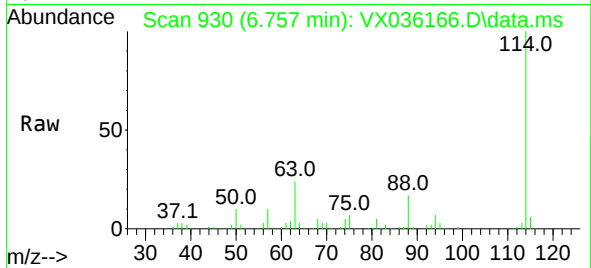




#28  
1,4-Difluorobenzene  
Concen: 30.000 ug/l  
RT: 6.757 min Scan# 91  
Delta R.T. 0.000 min  
Lab File: VX036166.D  
Acq: 15 Jun 2023 13:47

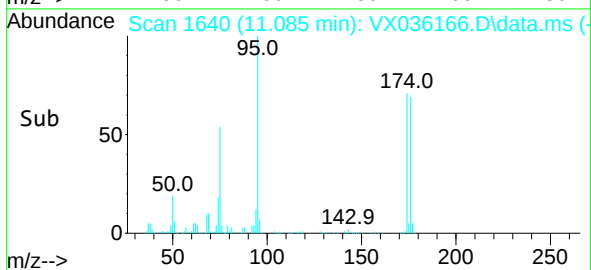
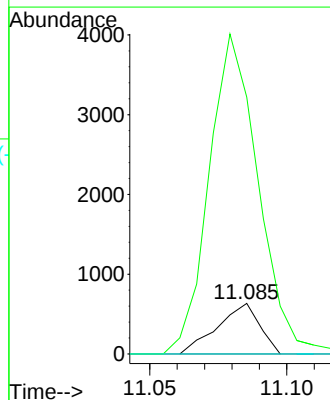
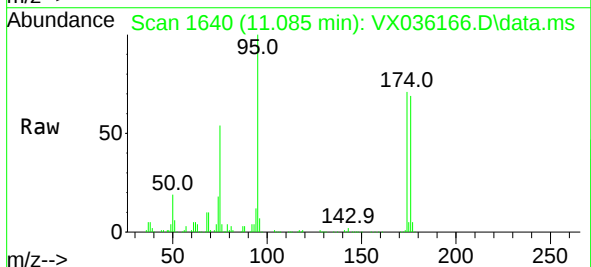
Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0615WBL01

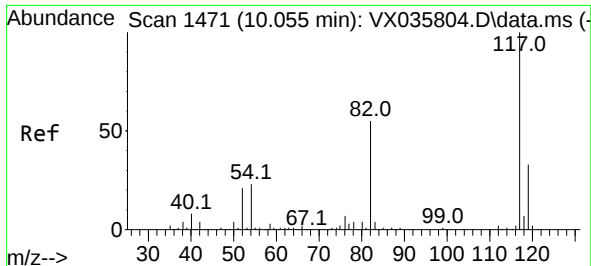
Tgt Ion:114 Resp: 215006  
Ion Ratio Lower Upper  
114 100  
63 23.9 18.0 27.0  
88 17.3 13.3 19.9



#56  
Bromoform  
Concen: 0.465 ug/l  
RT: 11.085 min Scan# 1640  
Delta R.T. 0.287 min  
Lab File: VX036166.D  
Acq: 15 Jun 2023 13:47

Tgt Ion:173 Resp: 680  
Ion Ratio Lower Upper  
173 100  
175 738.7 37.0 55.4#  
254 0.0 6.7 10.1#

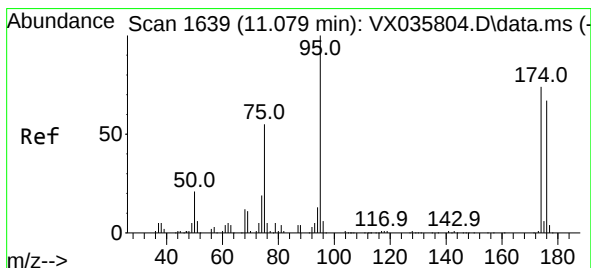
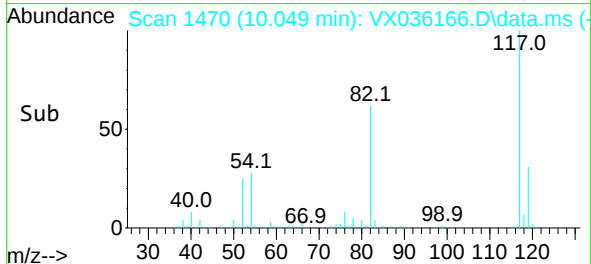
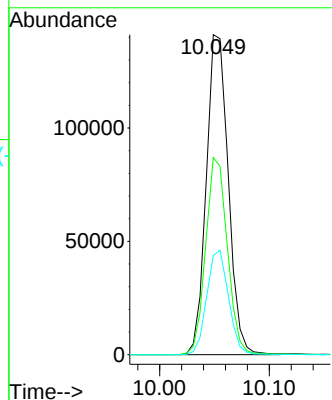
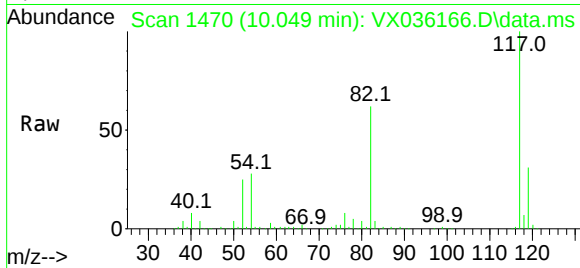




#57  
Chlorobenzene-d5  
Concen: 30.000 ug/l  
RT: 10.049 min Scan# 1471  
Delta R.T. -0.006 min  
Lab File: VX036166.D  
Acq: 15 Jun 2023 13:47

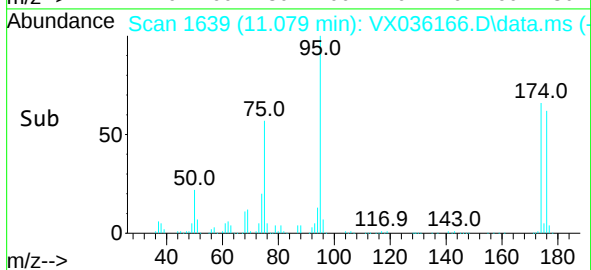
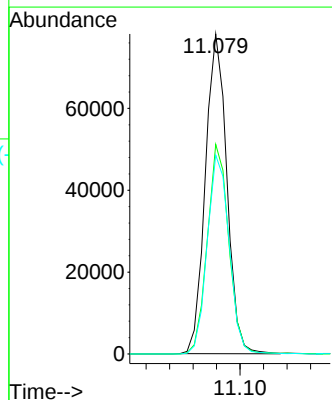
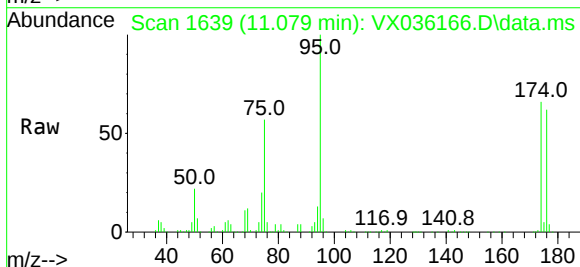
Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0615WBL01

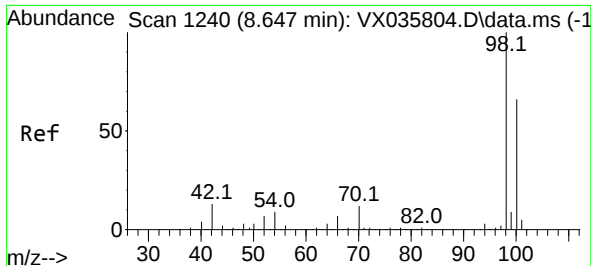
Tgt Ion:117 Resp: 197202  
Ion Ratio Lower Upper  
117 100  
82 60.8 45.8 68.8  
119 32.2 25.4 38.0



#60  
4-Bromofluorobenzene  
Concen: 29.982 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. 0.000 min  
Lab File: VX036166.D  
Acq: 15 Jun 2023 13:47

Tgt Ion: 95 Resp: 99210  
Ion Ratio Lower Upper  
95 100  
174 65.4 0.2 0.4#  
176 63.4 0.2 0.2#

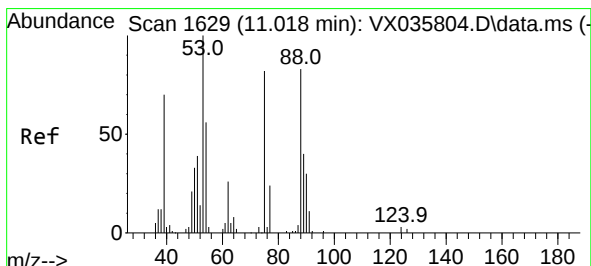
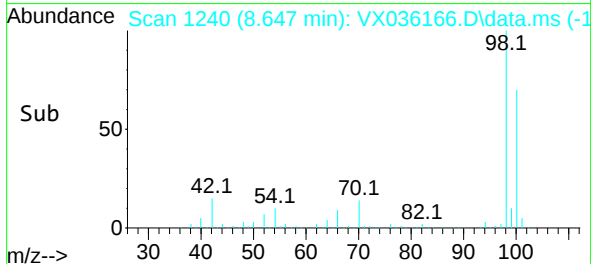
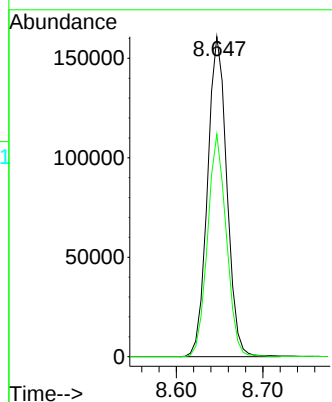
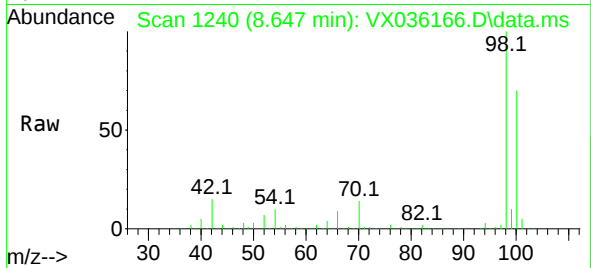




#63  
Toluene-d8  
Concen: 28.600 ug/l  
RT: 8.647 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VX036166.D  
Acq: 15 Jun 2023 13:47

Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0615WBL01

Tgt Ion: 98 Resp: 249332  
Ion Ratio Lower Upper  
98 100  
100 67.4 52.1 78.1



#77  
t-1,4-Dichloro-2-butene  
Concen: 55.264 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. 0.061 min  
Lab File: VX036166.D  
Acq: 15 Jun 2023 13:47

Tgt Ion: 75 Resp: 56448  
Ion Ratio Lower Upper  
75 100  
53 0.0 58.2 174.6#  
89 0.0 20.6 61.8#

