

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX061424\  
 Data File : VX041870.D  
 Acq On : 14 Jun 2024 11:58  
 Operator : JC/MD  
 Sample : VX0614WBL01  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VX0614WBL01

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 06/17/2024  
 Supervised By : Mahesh Dadoda 06/17/2024

Quant Time: Jun 14 12:28:49 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       | 4.898  | 128      | 36281    | 30.000 | ug/l     | 0.00     |
| 28) 1,4-Difluorobenzene     | 6.763  | 114      | 201112   | 30.000 | ug/l     | 0.00     |
| 57) Chlorobenzene-d5        | 10.055 | 117      | 182718   | 30.000 | ug/l     | 0.00     |
| System Monitoring Compounds |        |          |          |        |          |          |
| 27) 1,2-Dichloroethane-d4   | 5.952  | 65       | 74380m   | 26.033 | ug/l     | 0.00     |
| Spiked Amount 30.000        | Range  | 91 - 110 | Recovery | =      | 86.767%# |          |
| 60) 4-Bromofluorobenzene    | 11.079 | 95       | 75940    | 26.624 | ug/l     | 0.00     |
| Spiked Amount 30.000        | Range  | 63 - 112 | Recovery | =      | 88.733%  |          |
| 63) Toluene-d8              | 8.647  | 98       | 231278   | 29.528 | ug/l     | 0.00     |
| Spiked Amount 30.000        | Range  | 91 - 112 | Recovery | =      | 98.433%  |          |
| Target Compounds            |        |          |          |        |          |          |
|                             |        |          |          |        | Qvalue   |          |
| 5) Bromomethane             | 1.593  | 94       | 392      | 0.282  | ug/l #   | 46       |
| 15) Acetone                 | 2.392  | 58       | 497      | 1.509  | ug/l #   | 55       |
| 18) Methylene Chloride      | 2.788  | 84       | 873      | 0.395  | ug/l #   | 78       |
| 23) tert-Butyl Alcohol      | 2.941  | 59       | 3302     | 6.331  | ug/l #   | 100      |
| 58) 4-Methyl-2-Pentanone    | 8.647  | 43       | 914      | 0.274  | ug/l #   | 1        |
| 77) t-1,4-Dichloro-2-butene | 11.079 | 75       | 34523    | 35.307 | ug/l #   | 1        |
| -----                       |        |          |          |        |          |          |

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

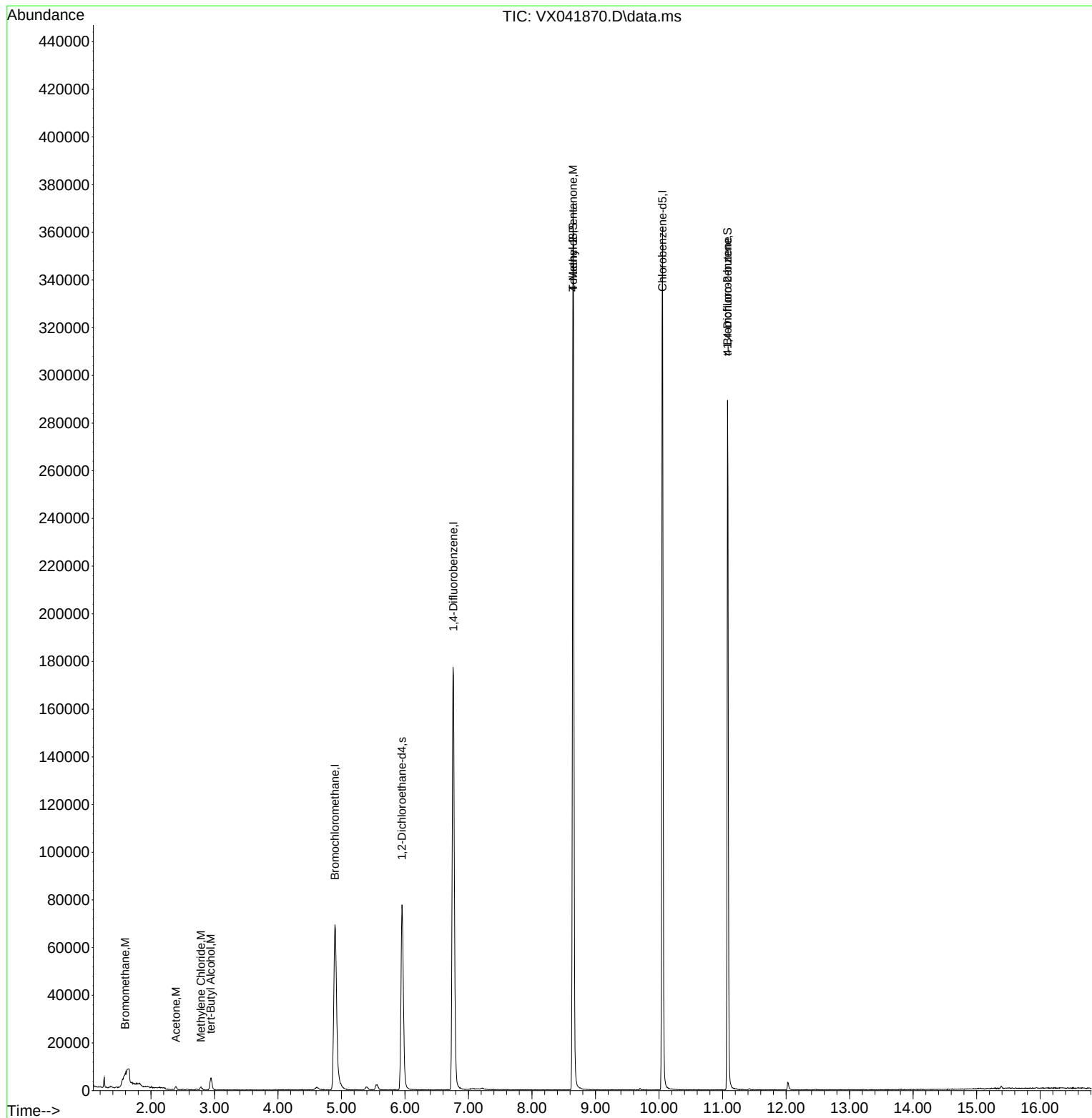
Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX061424\  
Data File : VX041870.D  
Acq On : 14 Jun 2024 11:58  
Operator : JC/MD  
Sample : VX0614WBL01  
Misc : 5.0mL/MSVOA\_X/WATER  
ALS Vial : 5 Sample Multiplier: 1

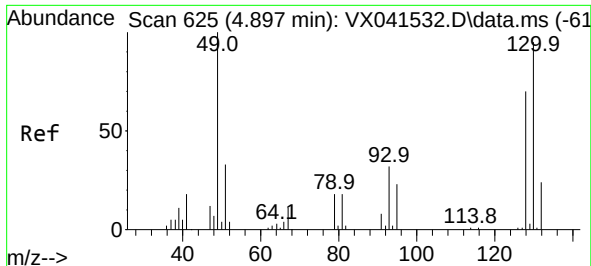
Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0614WBL01

Manual Integrations  
APPROVED

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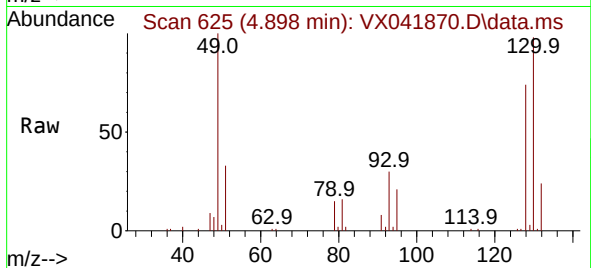
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Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\624X051524W.M  
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
QLast Update : Thu May 16 05:13:13 2024  
Response via : Initial Calibration





#1  
Bromochloromethane  
Concen: 30.000 ug/l  
RT: 4.898 min Scan# 61  
Delta R.T. 0.000 min  
Lab File: VX041870.D  
Acq: 14 Jun 2024 11:58

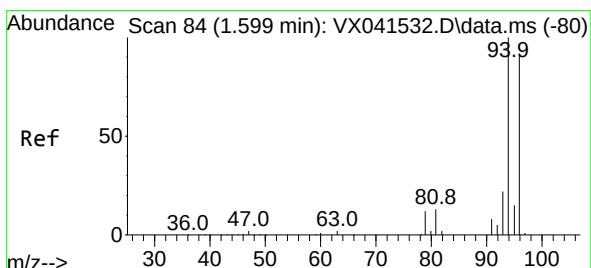
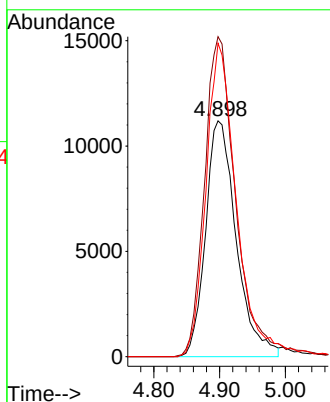
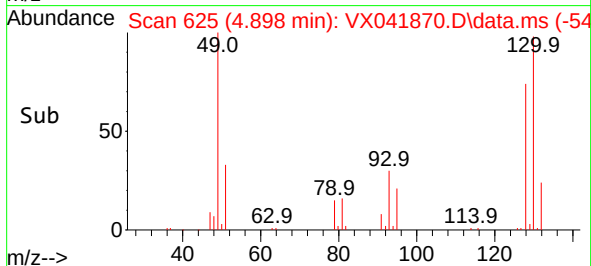
Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0614WBL01



Tgt Ion:128 Resp: 3628  
Ion Ratio Lower Upper  
128 100  
49 137.5 0.0 361.5  
130 132.0 0.0 324.3

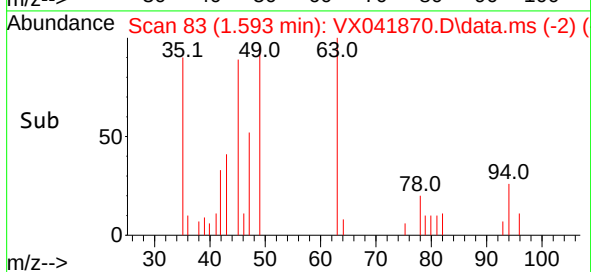
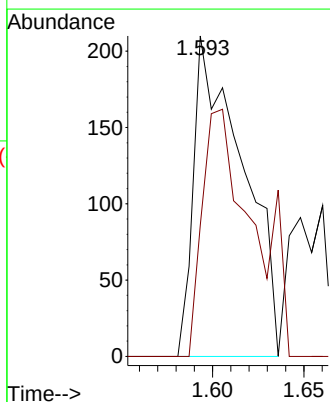
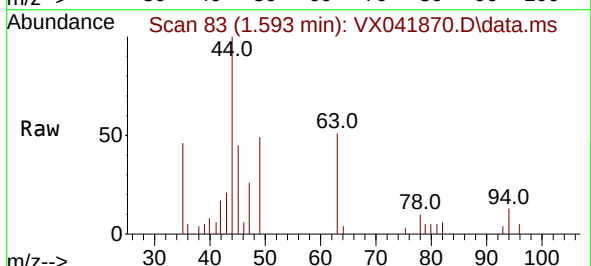
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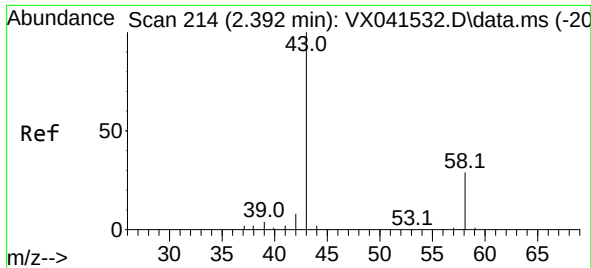
Reviewed By :John Carlone 06/17/2024  
Supervised By :Mahesh Dadoda 06/17/2024



#5  
Bromomethane  
Concen: 0.282 ug/l  
RT: 1.593 min Scan# 83  
Delta R.T. -0.006 min  
Lab File: VX041870.D  
Acq: 14 Jun 2024 11:58

Tgt Ion: 94 Resp: 392  
Ion Ratio Lower Upper  
94 100  
96 41.0 73.9 110.9#





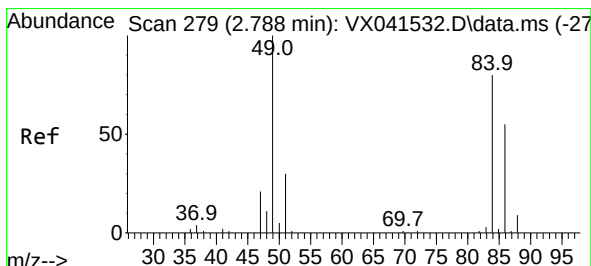
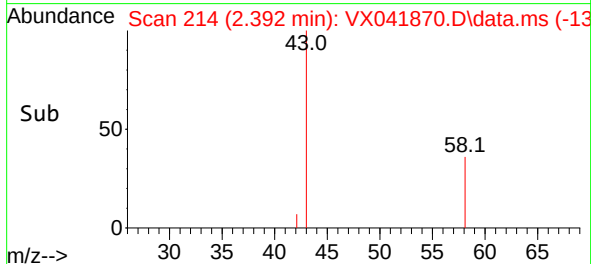
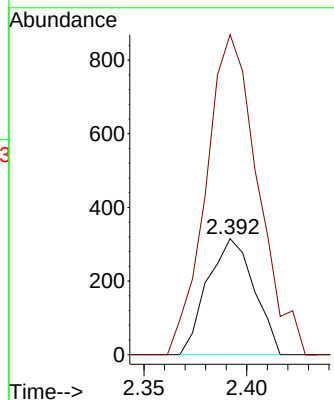
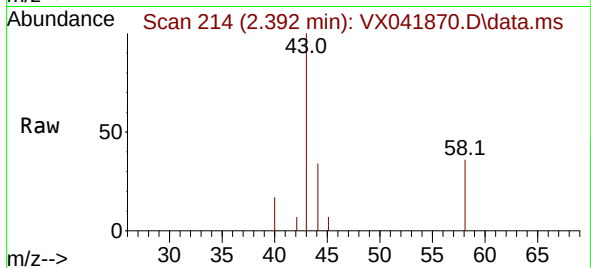
#15  
Acetone  
Concen: 1.509 ug/l  
RT: 2.392 min Scan# 214  
Delta R.T. 0.000 min  
Lab File: VX041870.D  
Acq: 14 Jun 2024 11:58

Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0614WBL01

Tgt Ion: 58 Resp: 495  
Ion Ratio Lower Upper  
58 100  
43 245.7 274.0 411.0

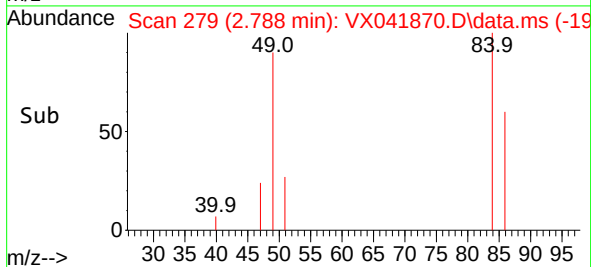
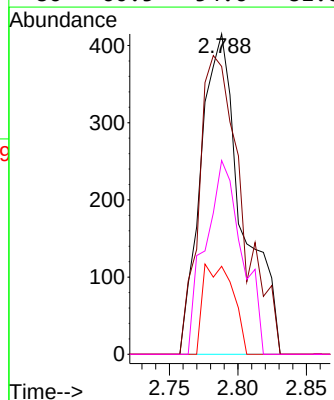
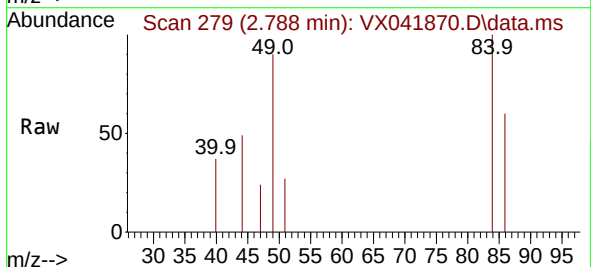
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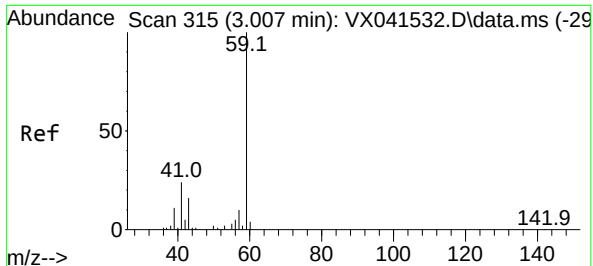
Reviewed By :John Carlone 06/17/2024  
Supervised By :Mahesh Dadoda 06/17/2024



#18  
Methylene Chloride  
Concen: 0.395 ug/l  
RT: 2.788 min Scan# 279  
Delta R.T. 0.000 min  
Lab File: VX041870.D  
Acq: 14 Jun 2024 11:58

Tgt Ion: 84 Resp: 873  
Ion Ratio Lower Upper  
84 100  
49 89.9 99.8 149.8#  
51 27.5 30.2 45.4#  
86 60.5 54.6 81.8





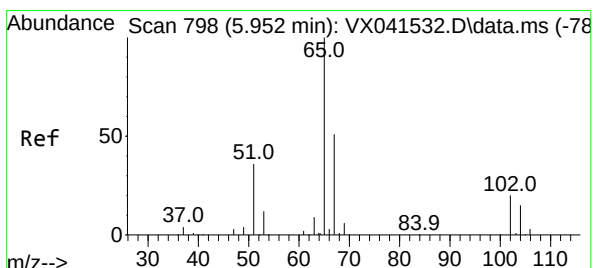
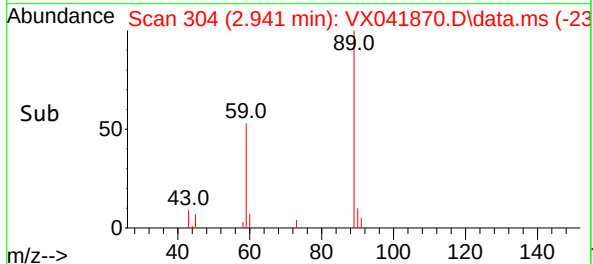
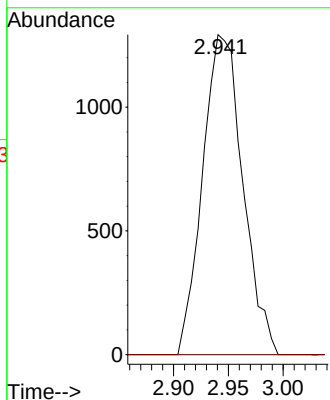
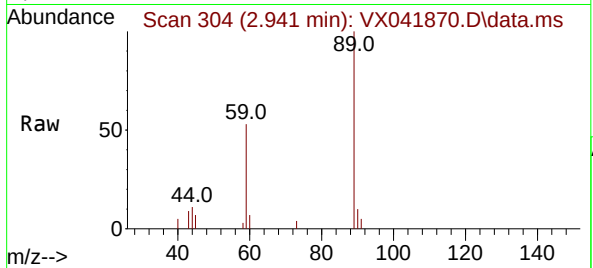
#23  
tert-Butyl Alcohol  
Concen: 6.331 ug/l  
RT: 2.941 min Scan# 304  
Delta R.T. -0.067 min  
Lab File: VX041870.D  
Acq: 14 Jun 2024 11:58

Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0614WBL01

Tgt Ion: 59 Resp: 3302  
Ion Ratio Lower Upper  
59 100  
52 0.0 0.0 0.0

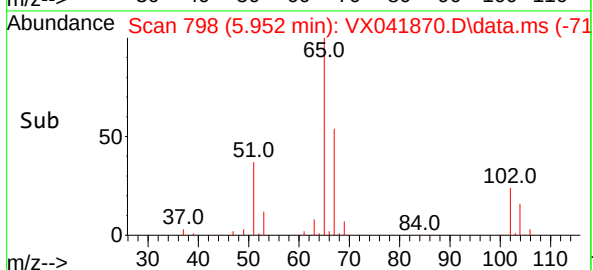
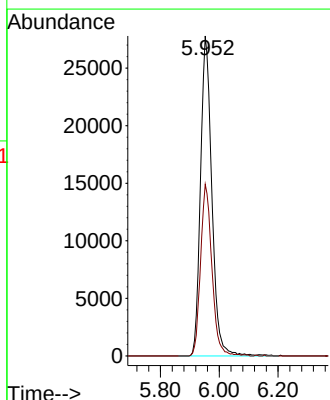
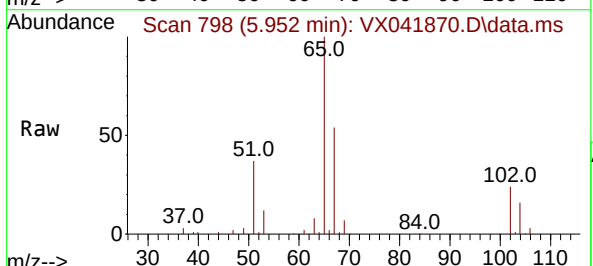
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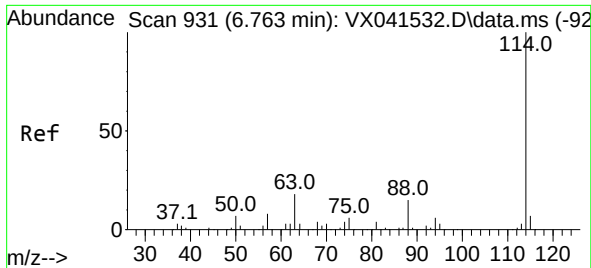
Reviewed By :John Carlone 06/17/2024  
Supervised By :Mahesh Dadoda 06/17/2024



#27  
1,2-Dichloroethane-d4  
Concen: 26.033 ug/l m  
RT: 5.952 min Scan# 798  
Delta R.T. 0.000 min  
Lab File: VX041870.D  
Acq: 14 Jun 2024 11:58

Tgt Ion: 65 Resp: 74380  
Ion Ratio Lower Upper  
65 100  
67 53.5 40.8 61.2





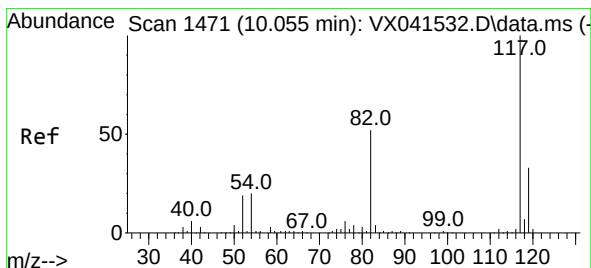
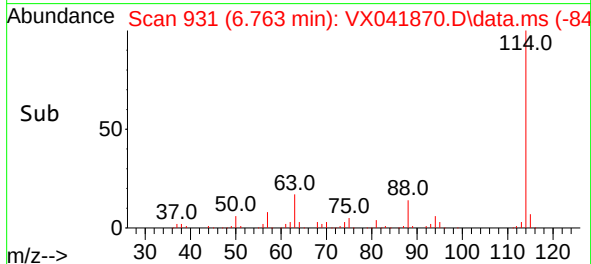
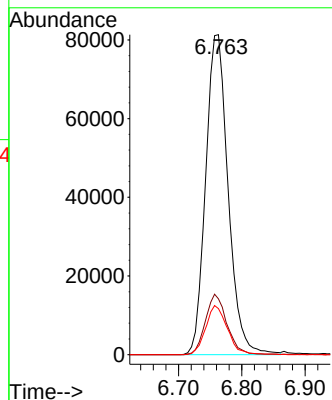
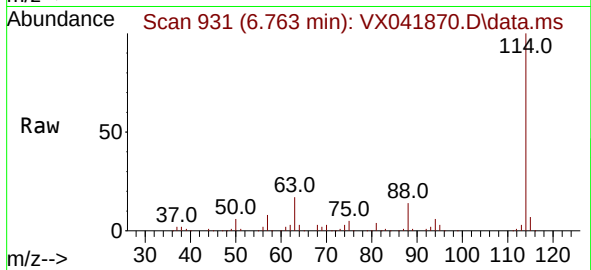
#28  
1,4-Difluorobenzene  
Concen: 30.000 ug/l  
RT: 6.763 min Scan# 911  
Delta R.T. 0.000 min  
Lab File: VX041870.D  
Acq: 14 Jun 2024 11:58

Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0614WBL01

Tgt Ion:114 Resp: 20111  
Ion Ratio Lower Upper  
114 100  
63 18.0 15.4 23.0  
88 14.8 12.2 18.2

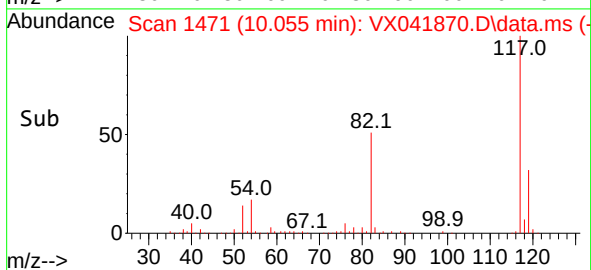
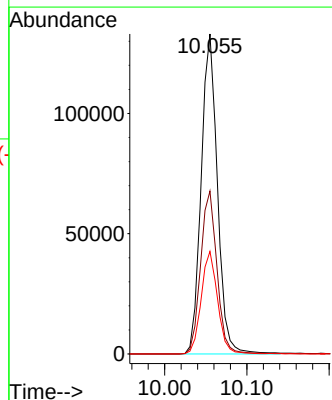
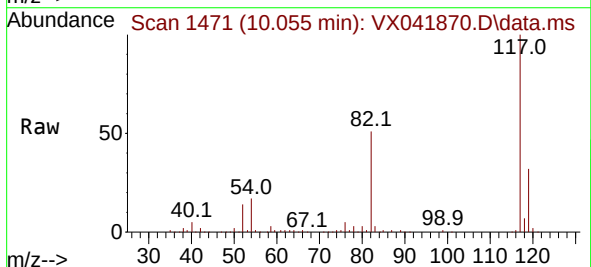
Manual Integrations  
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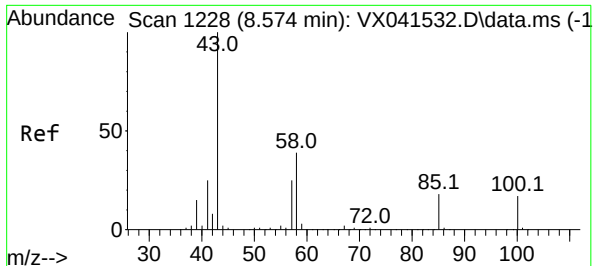
Reviewed By :John Carlone 06/17/2024  
Supervised By :Mahesh Dadoda 06/17/2024



#57  
Chlorobenzene-d5  
Concen: 30.000 ug/l  
RT: 10.055 min Scan# 1471  
Delta R.T. 0.000 min  
Lab File: VX041870.D  
Acq: 14 Jun 2024 11:58

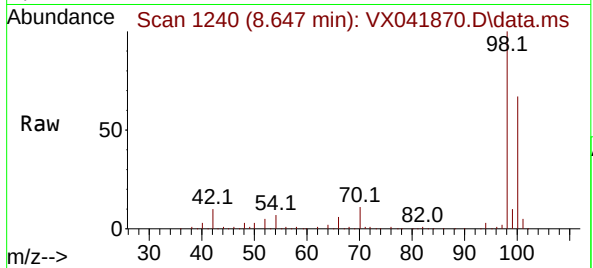
Tgt Ion:117 Resp: 182718  
Ion Ratio Lower Upper  
117 100  
82 51.3 41.7 62.5  
119 32.3 25.7 38.5





#58  
4-Methyl-2-Pentanone  
Concen: 0.274 ug/l  
RT: 8.647 min Scan# 1240  
Delta R.T. 0.073 min  
Lab File: VX041870.D  
Acq: 14 Jun 2024 11:58

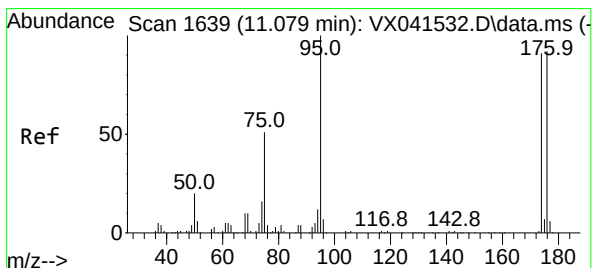
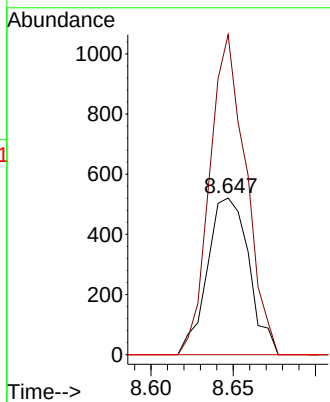
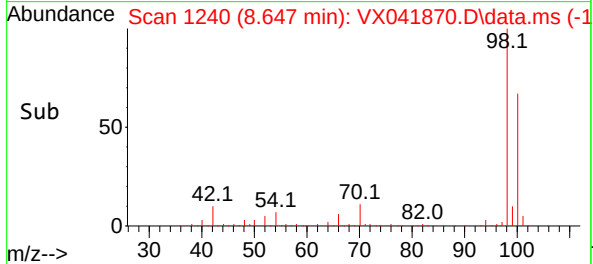
Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0614WBL01



Tgt Ion: 43 Resp: 914  
Ion Ratio Lower Upper  
43 100  
58 178.0 30.2 45.4  
85 0.0 14.6 21.8

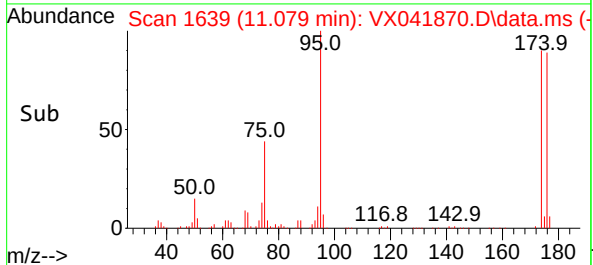
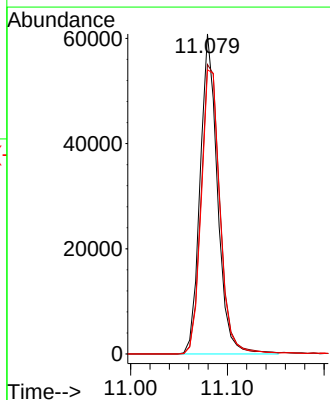
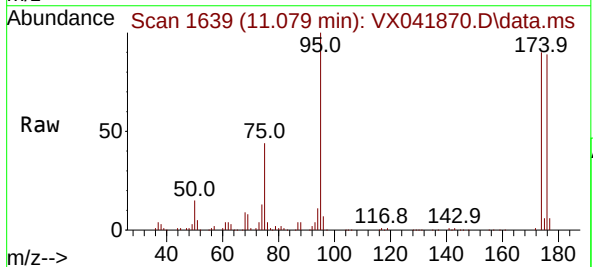
Manual Integrations  
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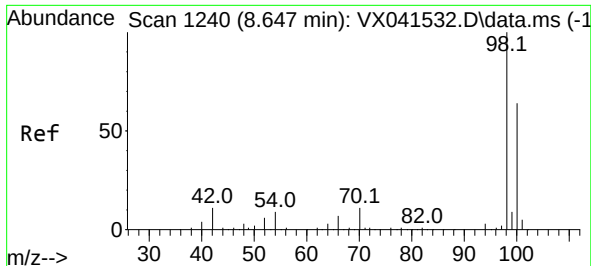
Reviewed By :John Carlone 06/17/2024  
Supervised By :Mahesh Dadoda 06/17/2024



#60  
4-Bromofluorobenzene  
Concen: 26.624 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. 0.000 min  
Lab File: VX041870.D  
Acq: 14 Jun 2024 11:58

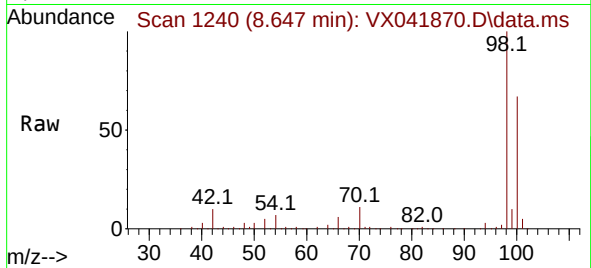
Tgt Ion: 95 Resp: 75940  
Ion Ratio Lower Upper  
95 100  
174 98.8 76.6 115.0  
176 95.8 75.4 113.0





#63  
Toluene-d8  
Concen: 29.528 ug/l  
RT: 8.647 min Scan# 1240  
Delta R.T. 0.000 min  
Lab File: VX041870.D  
Acq: 14 Jun 2024 11:58

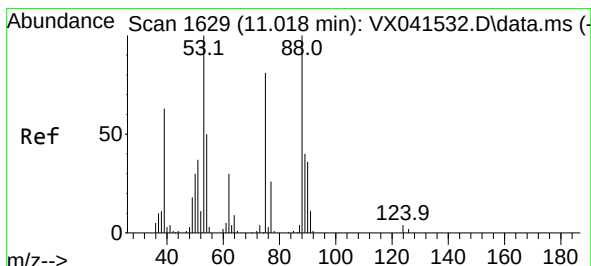
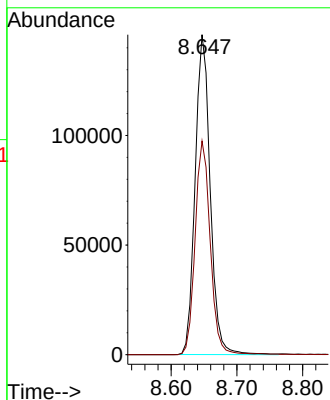
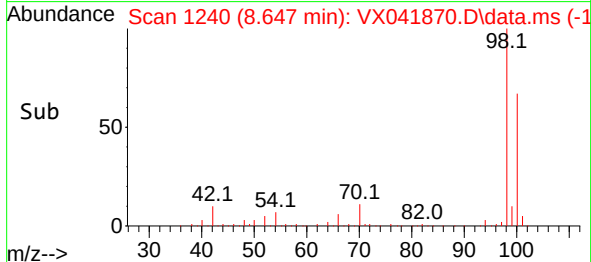
Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0614WBL01



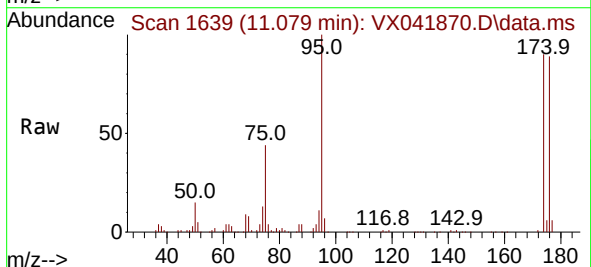
Tgt Ion: 98 Resp: 231278  
Ion Ratio Lower Upper  
98 100  
100 67.2 53.1 79.7

Manual Integrations  
APPROVED

Reviewed By :John Carlone 06/17/2024  
Supervised By :Mahesh Dadoda 06/17/2024



#77  
t-1,4-Dichloro-2-butene  
Concen: 35.307 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. 0.061 min  
Lab File: VX041870.D  
Acq: 14 Jun 2024 11:58



Tgt Ion: 75 Resp: 34523  
Ion Ratio Lower Upper  
75 100  
53 0.0 61.8 185.3#  
89 0.0 24.9 74.7#

