

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX102722\  
 Data File : VX032438.D  
 Acq On : 27 Oct 2022 19:00  
 Operator : JC/MD  
 Sample : N5315-01  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 221026039-02-VOA

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 10/28/2022  
 Supervised By : Mahesh Dadoda 10/31/2022

Quant Time: Oct 28 07:14:32 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X102622W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Oct 27 08:28:06 2022  
 Response via : Initial Calibration

| Compound                    | R.T.           | QIon | Response   | Conc    | Units  | Dev(Min) |
|-----------------------------|----------------|------|------------|---------|--------|----------|
| -----                       |                |      |            |         |        |          |
| Internal Standards          |                |      |            |         |        |          |
| 1) Pentafluorobenzene       | 5.556          | 168  | 119966     | 50.000  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene     | 6.763          | 114  | 195984     | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5        | 10.055         | 117  | 172221     | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4  | 12.024         | 152  | 79333      | 50.000  | ug/l   | 0.00     |
|                             |                |      |            |         |        |          |
| System Monitoring Compounds |                |      |            |         |        |          |
| 33) 1,2-Dichloroethane-d4   | 5.958          | 65   | 80319      | 48.185  | ug/l   | 0.00     |
| Spiked Amount 50.000        | Range 78 - 117 |      | Recovery = | 96.360% |        |          |
| 35) Dibromofluoromethane    | 5.385          | 113  | 62795      | 44.919  | ug/l   | 0.00     |
| Spiked Amount 50.000        | Range 75 - 124 |      | Recovery = | 89.840% |        |          |
| 50) Toluene-d8              | 8.653          | 98   | 232180     | 47.763  | ug/l   | 0.00     |
| Spiked Amount 50.000        | Range 92 - 112 |      | Recovery = | 95.520% |        |          |
| 62) 4-Bromofluorobenzene    | 11.079         | 95   | 87672      | 46.171  | ug/l   | 0.00     |
| Spiked Amount 50.000        | Range 83 - 123 |      | Recovery = | 92.340% |        |          |
|                             |                |      |            |         |        |          |
| Target Compounds            |                |      |            |         | Qvalue |          |
| 6) Chloroethane             | 1.691          | 64   | 290        | 0.336   | ug/l # | 70       |
| 8) Diethyl Ether            | 2.130          | 74   | 6702       | 8.476   | ug/l   | 97       |
| 11) Tert butyl alcohol      | 2.959          | 59   | 22388      | 92.278  | ug/l   | 99       |
| 16) Acetone                 | 2.380          | 43   | 3685       | 6.082   | ug/l # | 87       |
| 19) Methyl tert-butyl Ether | 3.111          | 73   | 1593       | 0.377   | ug/l # | 85       |
| 25) 2-Butanone              | 4.568          | 43   | 2526       | 2.691   | ug/l # | 76       |
| 29) Tetrahydrofuran         | 5.007          | 42   | 45679      | 76.320  | ug/l   | 98       |
| 40) Benzene                 | 6.037          | 78   | 3254       | 0.591   | ug/l   | 96       |
| 49) 1,4-Dioxane             | 7.677          | 88   | 2668m      | 87.124  | ug/l   |          |
| 65) Chlorobenzene           | 10.079         | 112  | 29834      | 7.733   | ug/l   | 96       |
| 68) m/p-Xylenes             | 10.305         | 106  | 2600       | 0.971   | ug/l   | 90       |
| 69) o-Xylene                | 10.646         | 106  | 2665       | 1.023   | ug/l   | 94       |
| 73) Isopropylbenzene        | 10.963         | 105  | 2441       | 0.388   | ug/l   | 100      |
| 79) 2-Chlorotoluene         | 11.366         | 91   | 2797       | 0.645   | ug/l   | 90       |
| 88) 1,4-Dichlorobenzene     | 12.043         | 146  | 18452      | 6.118   | ug/l   | 97       |
| 91) 1,2-Dichlorobenzene     | 12.335         | 146  | 1080       | 0.377   | ug/l   | 96       |
| -----                       |                |      |            |         |        |          |

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

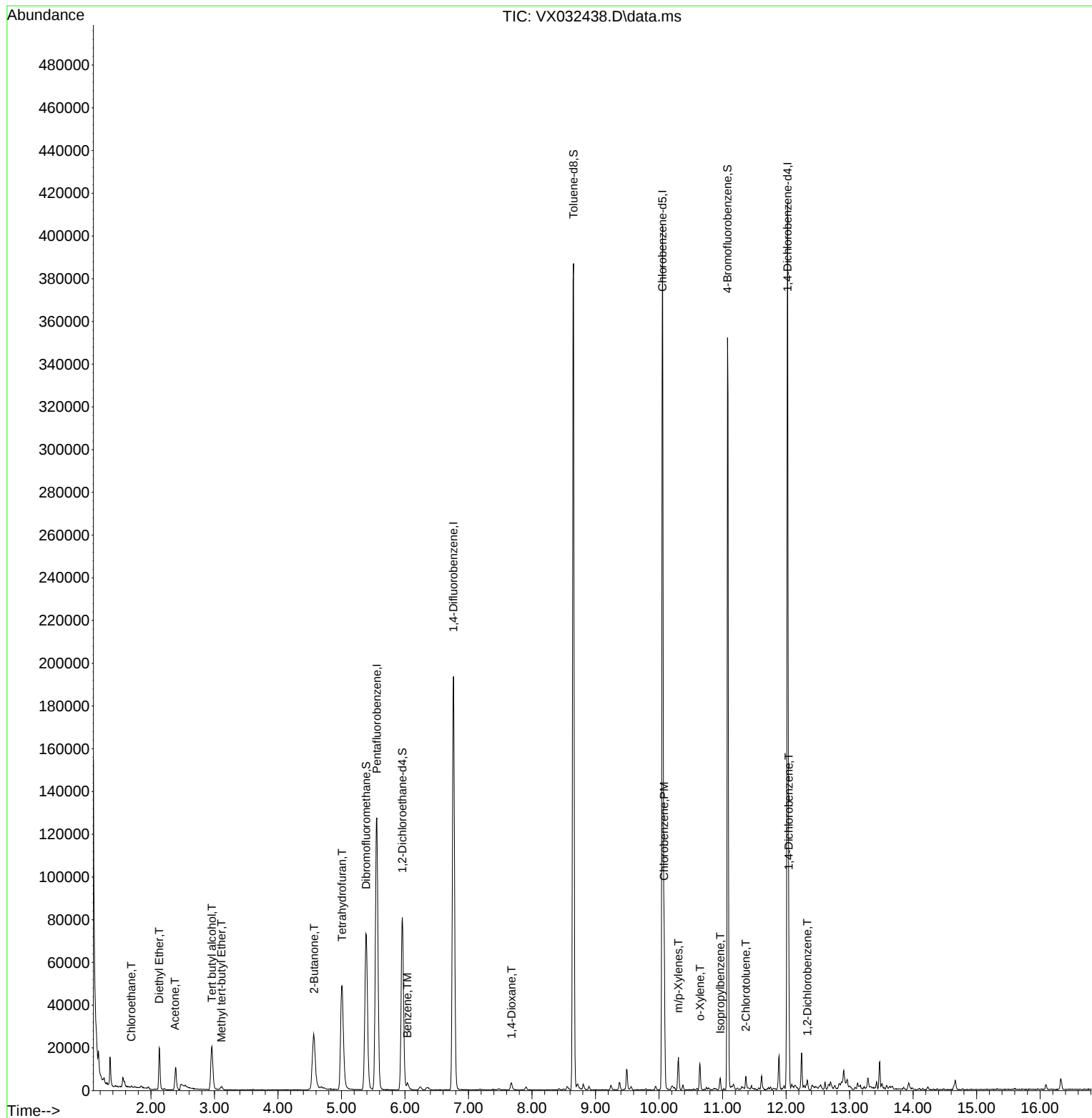
Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX102722\  
Data File : VX032438.D  
Acq On : 27 Oct 2022 19:00  
Operator : JC/MD  
Sample : N5315-01  
Misc : 5.0mL/MSVOA\_X/WATER  
ALS Vial : 20 Sample Multiplier: 1

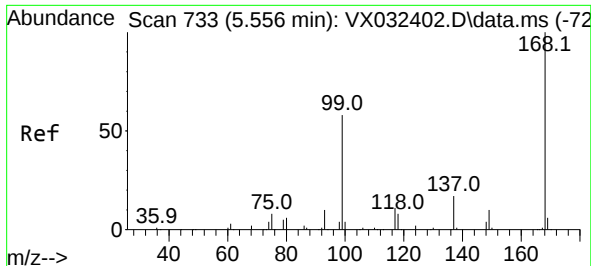
Instrument :  
MSVOA\_X  
ClientSampleId :  
221026039-02-VOA

Quant Time: Oct 28 07:14:32 2022  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X102622W.M  
Quant Title : SW846 8260  
QLast Update : Thu Oct 27 08:28:06 2022  
Response via : Initial Calibration

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APPROVED

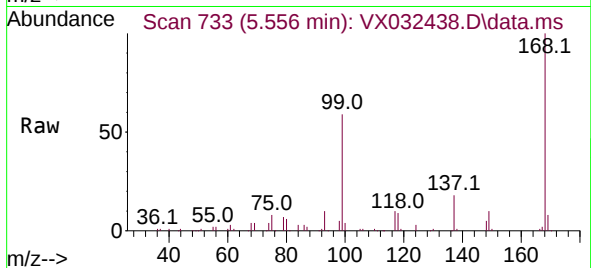
Reviewed By : John Carlone 10/28/2022  
Supervised By : Mahesh Dadoda 10/31/2022





#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.556 min Scan# 71  
Delta R.T. -0.000 min  
Lab File: VX032438.D  
Acq: 27 Oct 2022 19:00

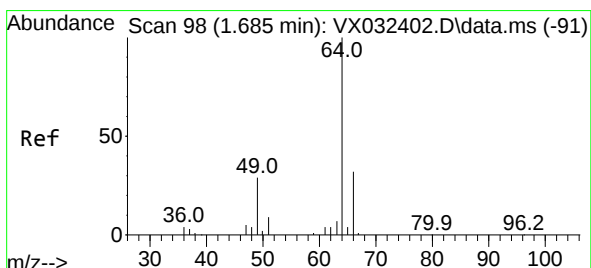
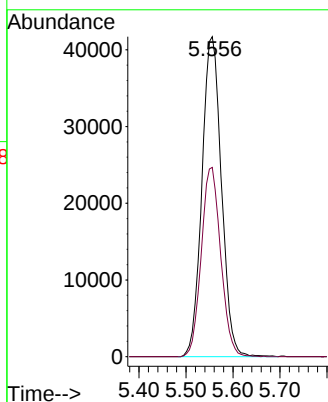
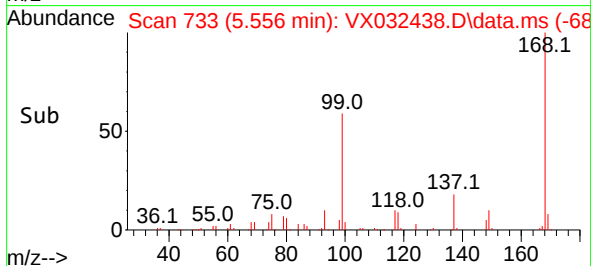
Instrument :  
MSVOA\_X  
ClientSampleId :  
221026039-02-VOA



Tgt Ion:168 Resp: 11996  
Ion Ratio Lower Upper  
168 100  
99 59.1 46.1 69.1

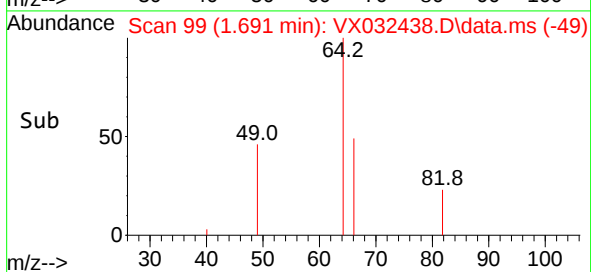
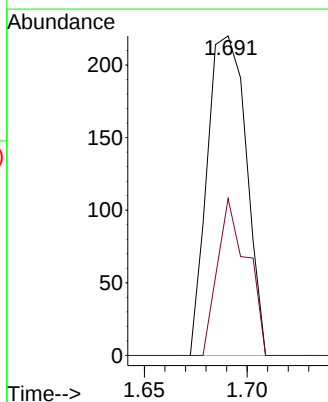
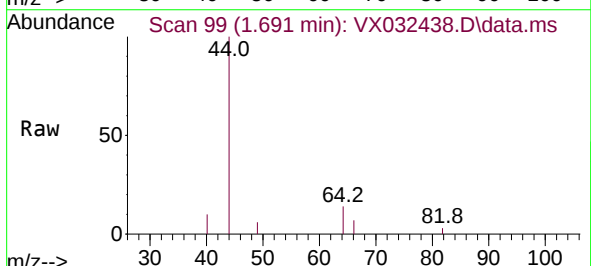
Manual Integrations  
APPROVED

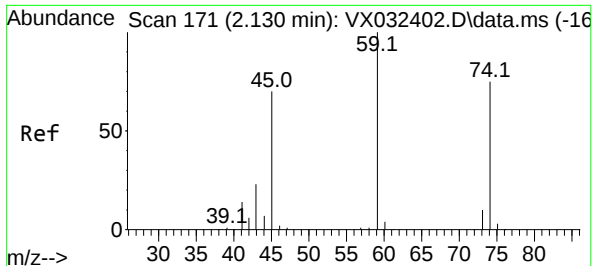
Reviewed By :John Carlone 10/28/2022  
Supervised By :Mahesh Dadoda 10/31/2022



#6  
Chloroethane  
Concen: 0.336 ug/l  
RT: 1.691 min Scan# 99  
Delta R.T. 0.006 min  
Lab File: VX032438.D  
Acq: 27 Oct 2022 19:00

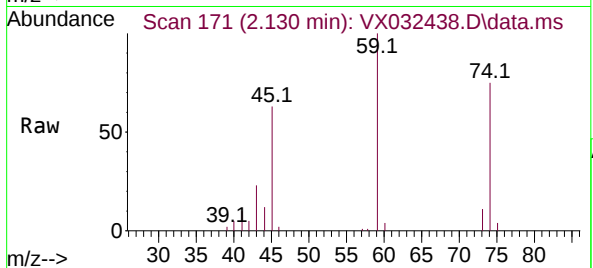
Tgt Ion: 64 Resp: 290  
Ion Ratio Lower Upper  
64 100  
66 49.1 26.0 39.0#





#8  
Diethyl Ether  
Concen: 8.476 ug/l  
RT: 2.130 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VX032438.D  
Acq: 27 Oct 2022 19:00

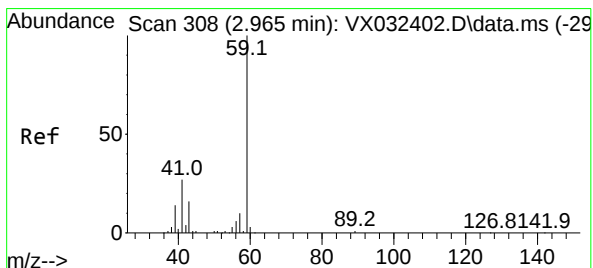
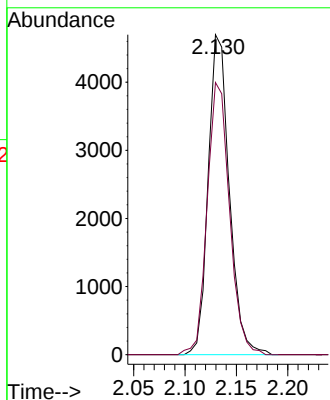
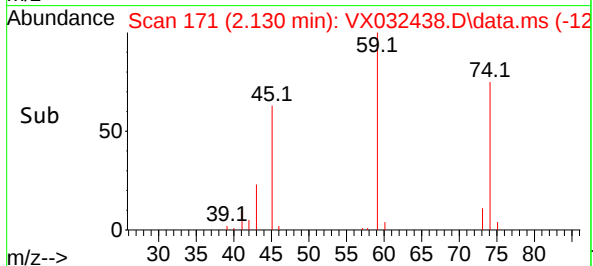
Instrument :  
MSVOA\_X  
ClientSampleId :  
221026039-02-VOA



Tgt Ion: 74 Resp: 670  
Ion Ratio Lower Upper  
74 100  
45 90.0 46.6 139.7

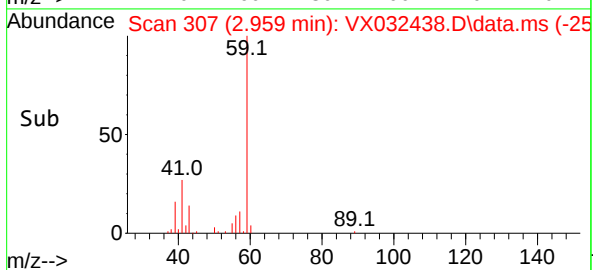
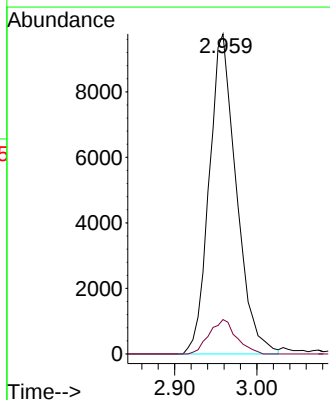
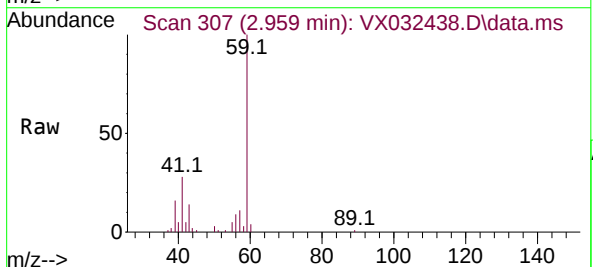
Manual Integrations  
APPROVED

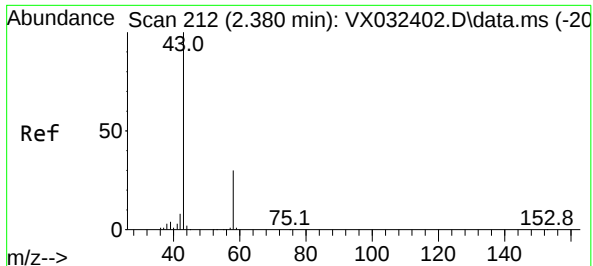
Reviewed By :John Carlone 10/28/2022  
Supervised By :Mahesh Dadoda 10/31/2022



#11  
Tert butyl alcohol  
Concen: 92.278 ug/l  
RT: 2.959 min Scan# 307  
Delta R.T. -0.006 min  
Lab File: VX032438.D  
Acq: 27 Oct 2022 19:00

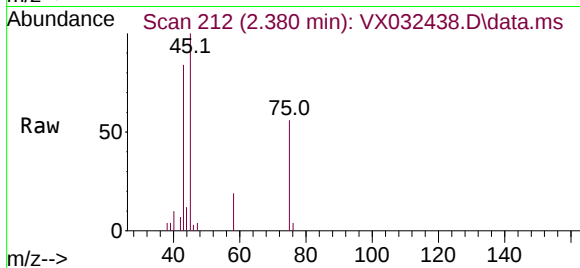
Tgt Ion: 59 Resp: 22388  
Ion Ratio Lower Upper  
59 100  
57 10.7 8.2 12.4





#16  
Acetone  
Concen: 6.082 ug/l  
RT: 2.380 min Scan# 212  
Delta R.T. 0.000 min  
Lab File: VX032438.D  
Acq: 27 Oct 2022 19:00

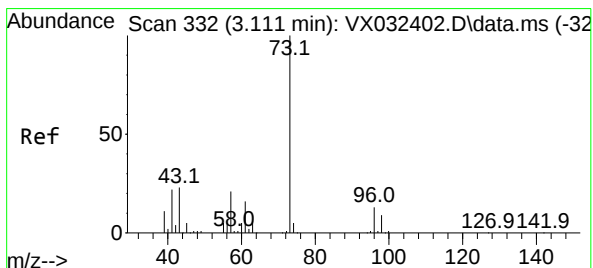
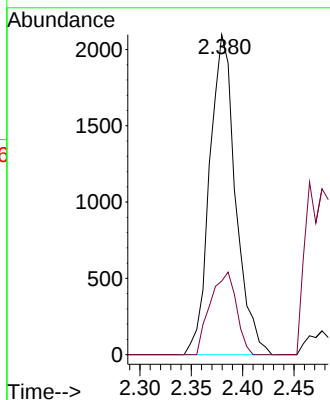
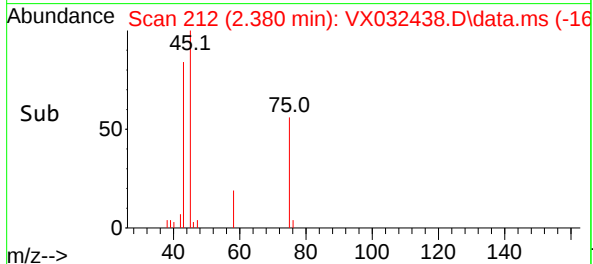
Instrument :  
MSVOA\_X  
ClientSampleId :  
221026039-02-VOA



Tgt Ion: 43 Resp: 368  
Ion Ratio Lower Upper  
43 100  
58 23.0 23.8 35.8

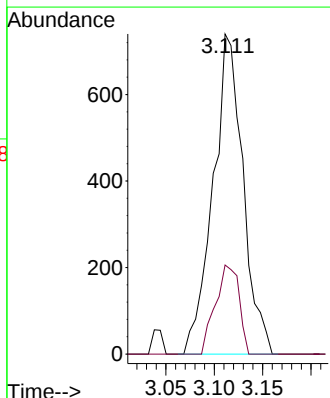
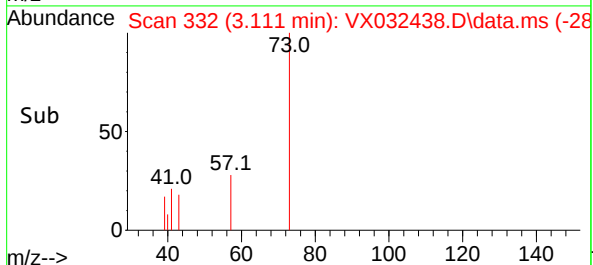
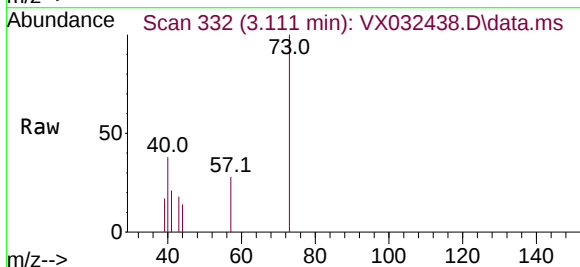
Manual Integrations  
APPROVED

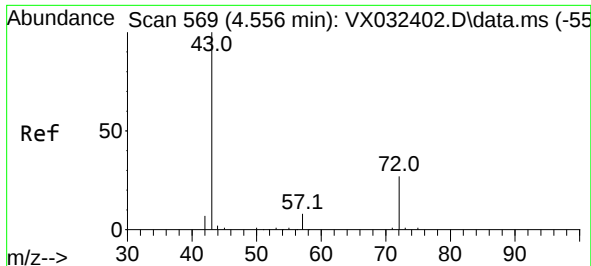
Reviewed By :John Carlone 10/28/2022  
Supervised By :Mahesh Dadoda 10/31/2022



#19  
Methyl tert-butyl Ether  
Concen: 0.377 ug/l  
RT: 3.111 min Scan# 332  
Delta R.T. 0.000 min  
Lab File: VX032438.D  
Acq: 27 Oct 2022 19:00

Tgt Ion: 73 Resp: 1593  
Ion Ratio Lower Upper  
73 100  
57 27.8 16.6 25.0





#25

2-Butanone

Concen: 2.691 ug/l

RT: 4.568 min Scan# 51

Delta R.T. 0.012 min

Lab File: VX032438.D

Acq: 27 Oct 2022 19:00

Instrument :

MSVOA\_X

ClientSampleId :

221026039-02-VOA

Tgt Ion: 43 Resp: 2520

Ion Ratio Lower Upper

43 100

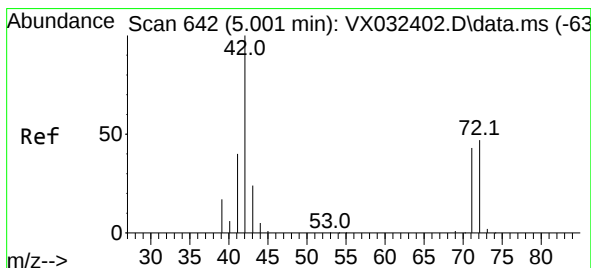
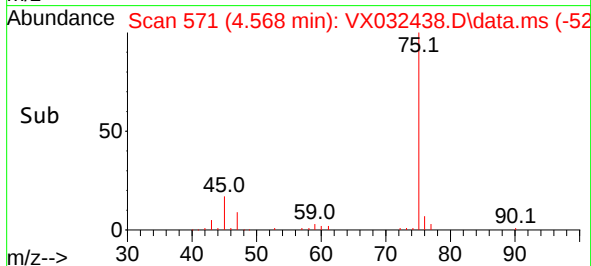
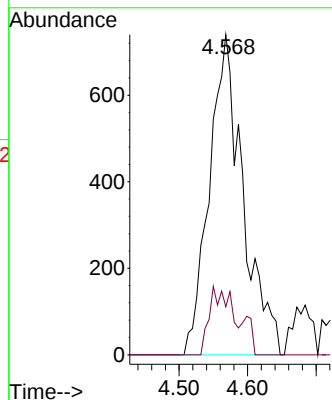
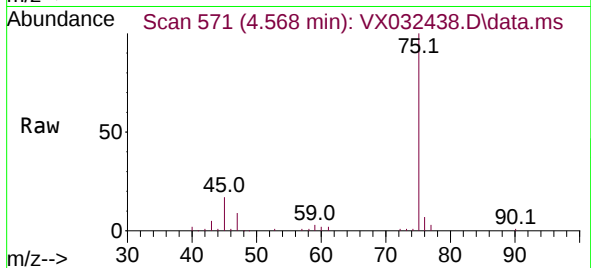
72 15.0 22.2 33.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/28/2022

Supervised By :Mahesh Dadoda 10/31/2022



#29

Tetrahydrofuran

Concen: 76.320 ug/l

RT: 5.007 min Scan# 643

Delta R.T. 0.006 min

Lab File: VX032438.D

Acq: 27 Oct 2022 19:00

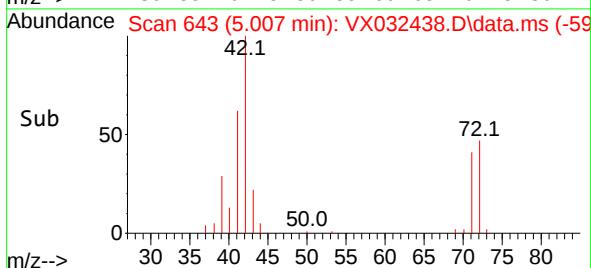
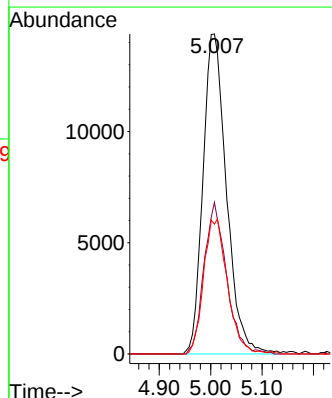
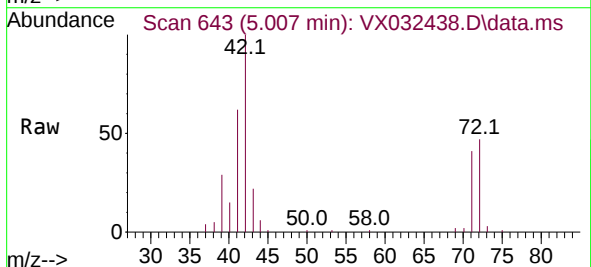
Tgt Ion: 42 Resp: 45679

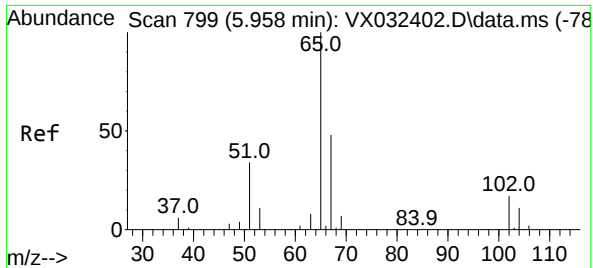
Ion Ratio Lower Upper

42 100

72 45.3 37.6 56.4

71 42.8 34.7 52.1





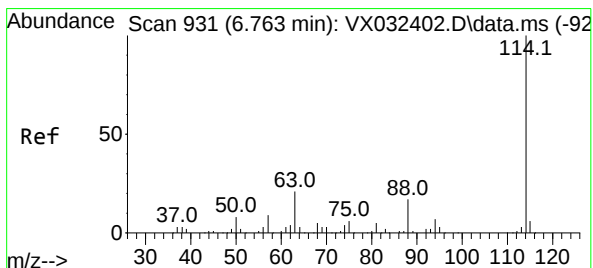
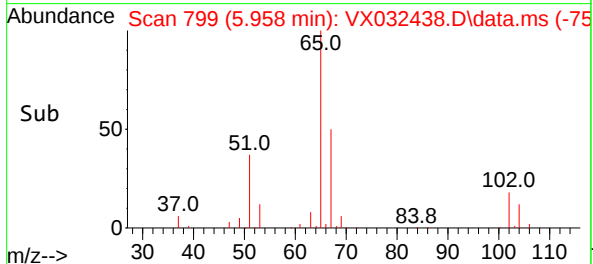
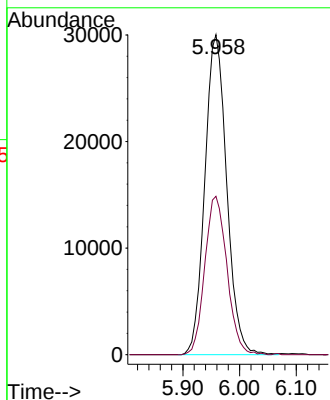
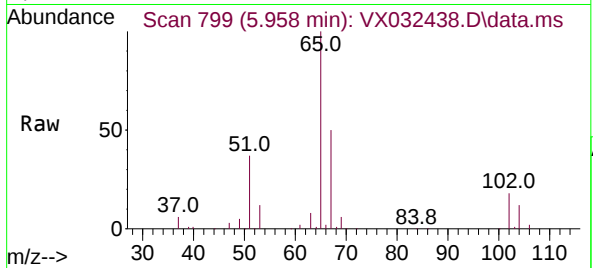
#33  
 1,2-Dichloroethane-d4  
 Concen: 48.185 ug/l  
 RT: 5.958 min Scan# 799  
 Delta R.T. 0.000 min  
 Lab File: VX032438.D  
 Acq: 27 Oct 2022 19:00

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 221026039-02-VOA

Tgt Ion: 65 Resp: 80319  
 Ion Ratio Lower Upper  
 65 100  
 67 50.2 0.0 101.8

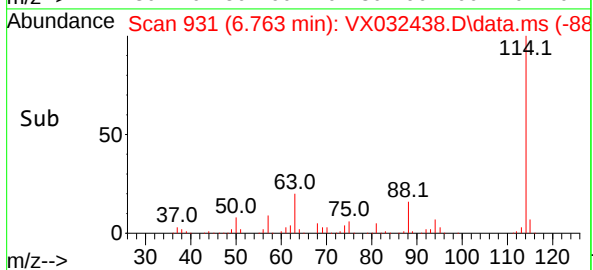
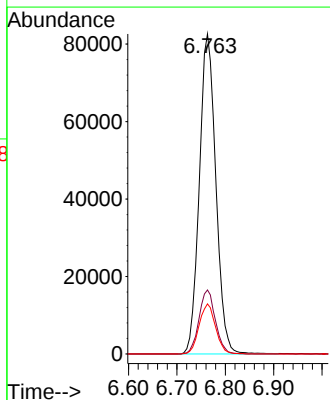
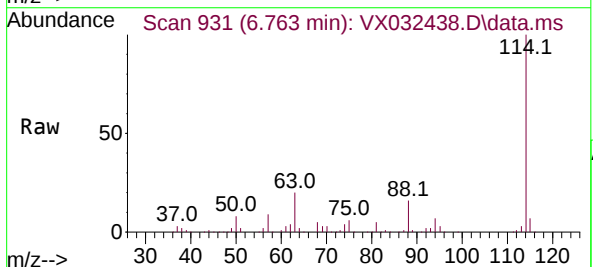
Manual Integrations  
 APPROVED

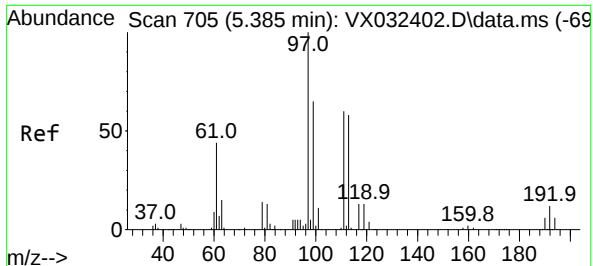
Reviewed By :John Carlone 10/28/2022  
 Supervised By :Mahesh Dadoda 10/31/2022



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 6.763 min Scan# 931  
 Delta R.T. 0.000 min  
 Lab File: VX032438.D  
 Acq: 27 Oct 2022 19:00

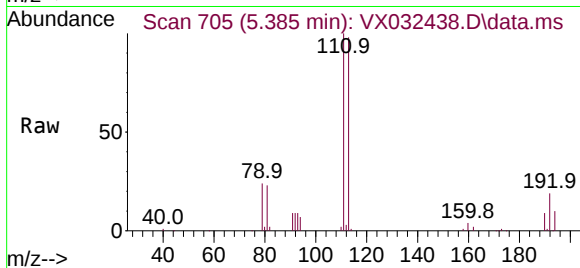
Tgt Ion:114 Resp: 195984  
 Ion Ratio Lower Upper  
 114 100  
 63 20.0 0.0 41.6  
 88 15.7 0.0 33.4





#35  
Dibromofluoromethane  
Concen: 44.919 ug/l  
RT: 5.385 min Scan# 705  
Delta R.T. 0.000 min  
Lab File: VX032438.D  
Acq: 27 Oct 2022 19:00

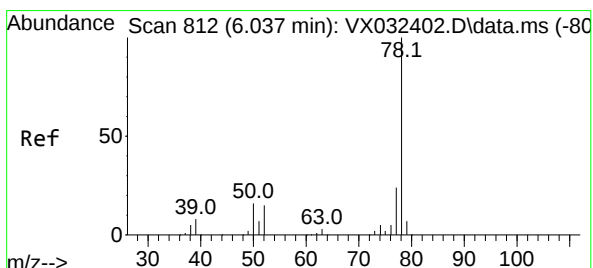
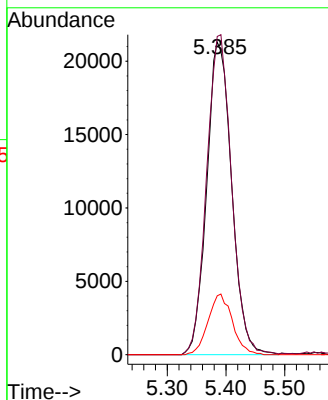
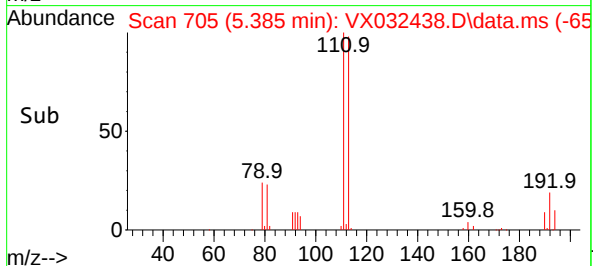
Instrument :  
MSVOA\_X  
ClientSampleId :  
221026039-02-VOA



Tgt Ion:113 Resp: 62795  
Ion Ratio Lower Upper  
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111 102.7 82.4 123.6  
192 18.9 15.4 23.2

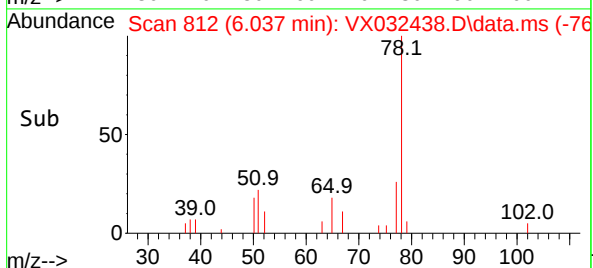
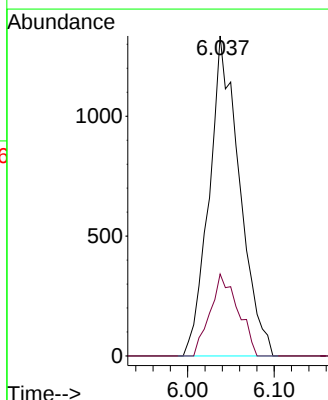
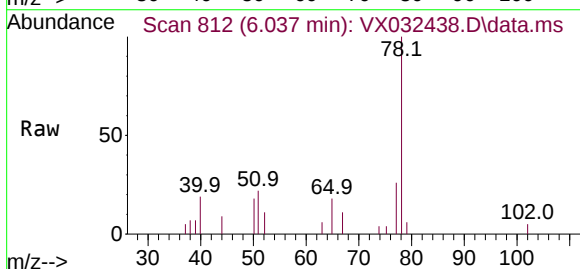
Manual Integrations  
APPROVED

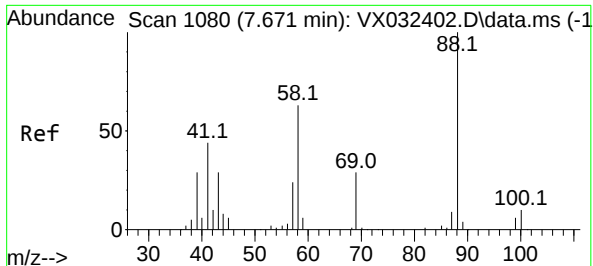
Reviewed By :John Carlone 10/28/2022  
Supervised By :Mahesh Dadoda 10/31/2022



#40  
Benzene  
Concen: 0.591 ug/l  
RT: 6.037 min Scan# 812  
Delta R.T. 0.000 min  
Lab File: VX032438.D  
Acq: 27 Oct 2022 19:00

Tgt Ion: 78 Resp: 3254  
Ion Ratio Lower Upper  
78 100  
77 25.6 19.0 28.4





#49

1,4-Dioxane

Concen: 87.124 ug/l m

RT: 7.677 min Scan# 1080

Delta R.T. 0.006 min

Lab File: VX032438.D

Acq: 27 Oct 2022 19:00

Instrument :

MSVOA\_X

ClientSampleId :

221026039-02-VOA

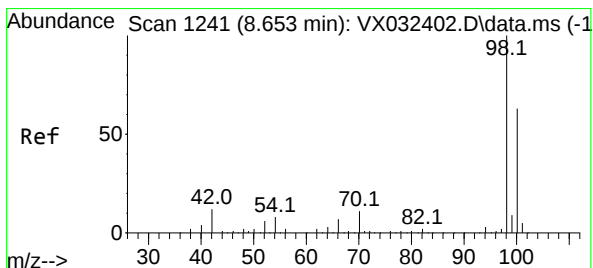
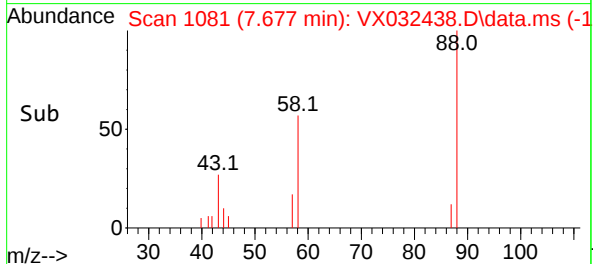
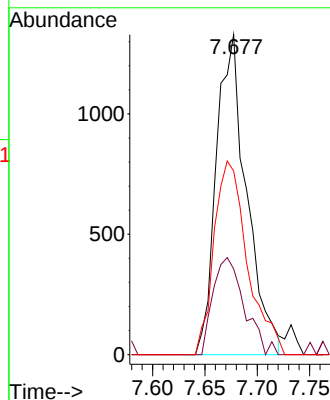
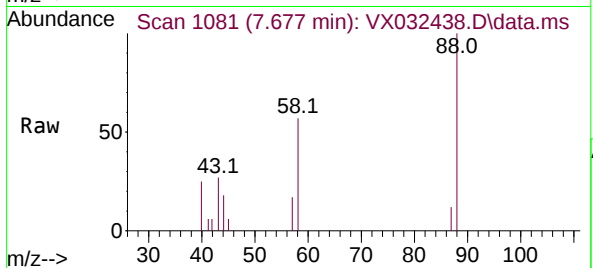
|             |             |
|-------------|-------------|
| Tgt Ion: 88 | Resp: 266   |
| Ion Ratio   | Lower Upper |
| 88 100      |             |
| 43 0.0      | 26.6 39.8   |
| 58 0.0      | 51.7 77.5   |

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/28/2022

Supervised By :Mahesh Dadoda 10/31/2022



#50

Toluene-d8

Concen: 47.763 ug/l

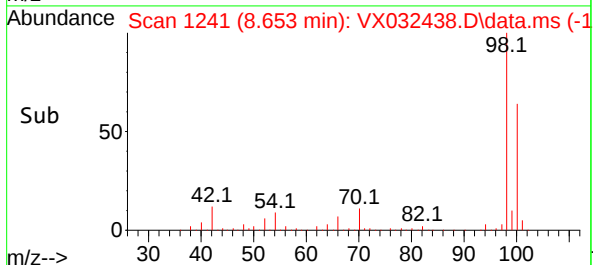
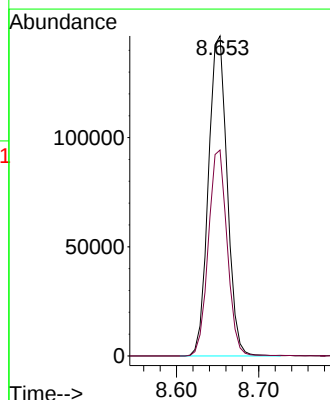
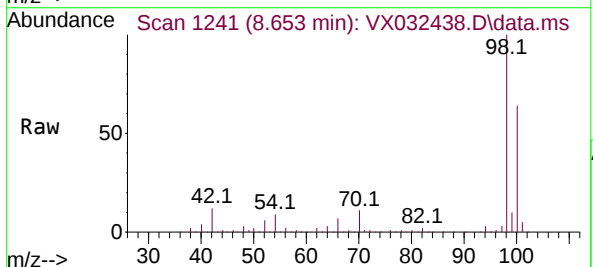
RT: 8.653 min Scan# 1241

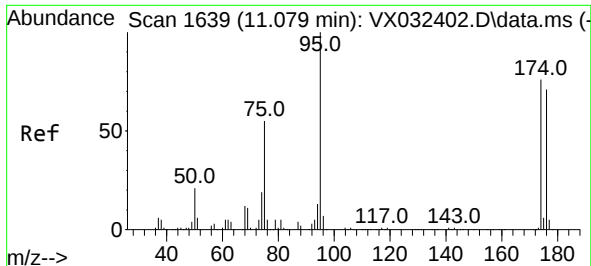
Delta R.T. 0.000 min

Lab File: VX032438.D

Acq: 27 Oct 2022 19:00

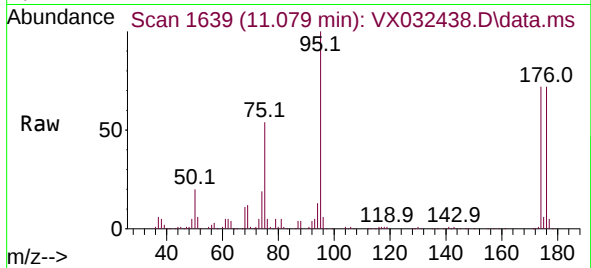
|             |              |
|-------------|--------------|
| Tgt Ion: 98 | Resp: 232180 |
| Ion Ratio   | Lower Upper  |
| 98 100      |              |
| 100 64.6    | 50.9 76.3    |





#62  
4-Bromofluorobenzene  
Concen: 46.171 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. 0.000 min  
Lab File: VX032438.D  
Acq: 27 Oct 2022 19:00

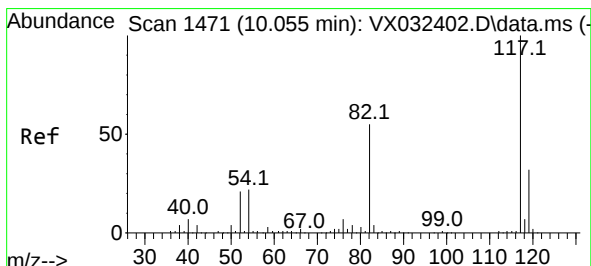
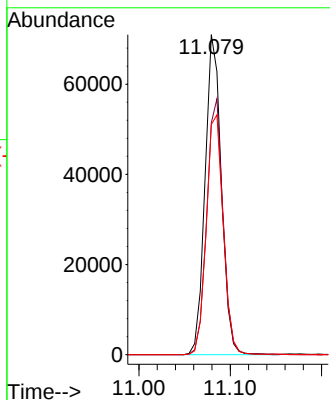
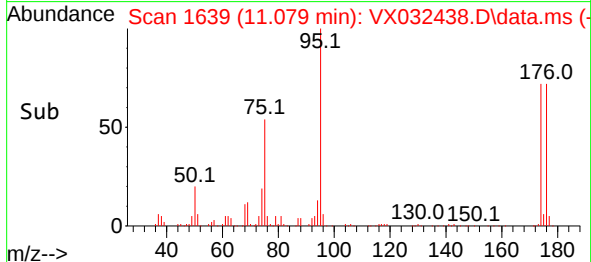
Instrument :  
MSVOA\_X  
ClientSampleId :  
221026039-02-VOA



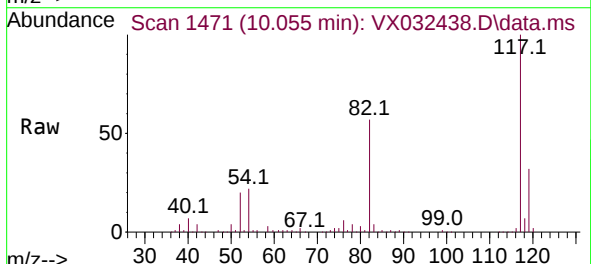
Tgt Ion: 95 Resp: 87672  
Ion Ratio Lower Upper  
95 100  
174 80.1 0.0 164.0  
176 77.9 0.0 154.4

Manual Integrations  
APPROVED

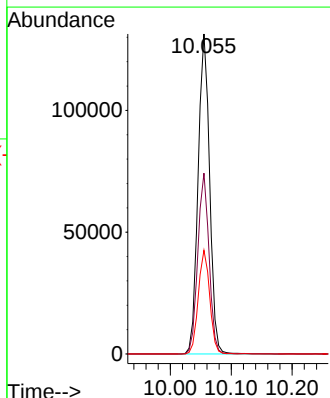
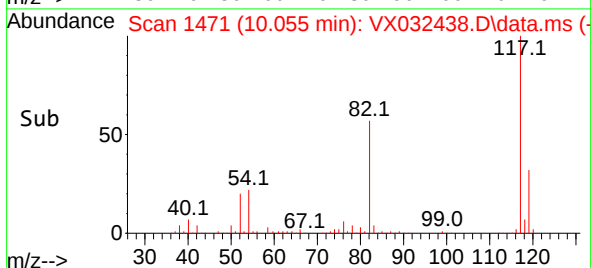
Reviewed By :John Carlone 10/28/2022  
Supervised By :Mahesh Dadoda 10/31/2022

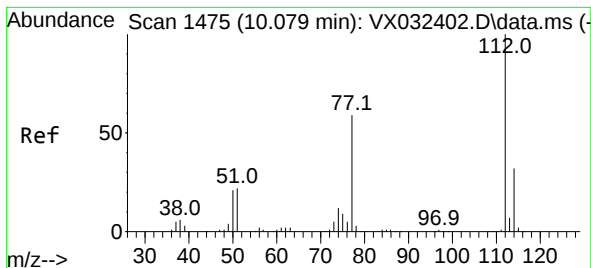


#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.055 min Scan# 1471  
Delta R.T. 0.000 min  
Lab File: VX032438.D  
Acq: 27 Oct 2022 19:00



Tgt Ion:117 Resp: 172221  
Ion Ratio Lower Upper  
117 100  
82 56.5 44.3 66.5  
119 32.4 25.7 38.5





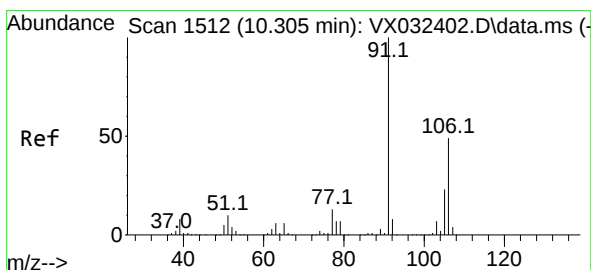
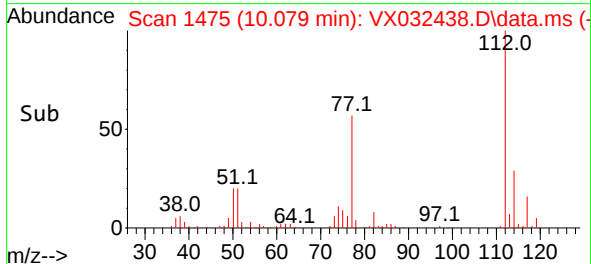
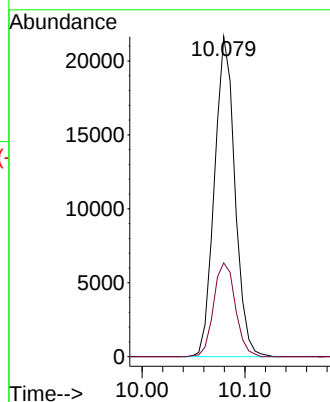
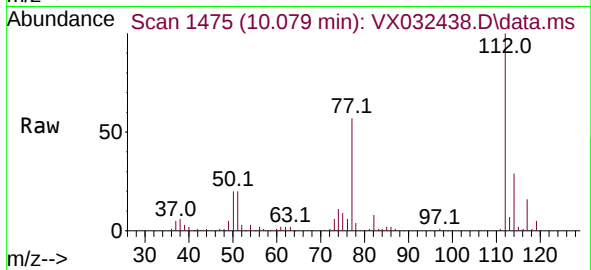
#65  
Chlorobenzene  
Concen: 7.733 ug/l  
RT: 10.079 min Scan# 1475  
Delta R.T. 0.000 min  
Lab File: VX032438.D  
Acq: 27 Oct 2022 19:00

Instrument :  
MSVOA\_X  
ClientSampleId :  
221026039-02-VOA

Tgt Ion:112 Resp: 29834  
Ion Ratio Lower Upper  
112 100  
114 29.3 25.4 38.2

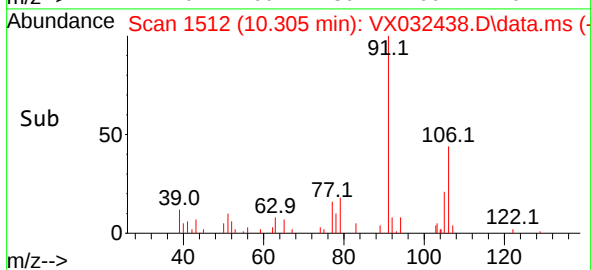
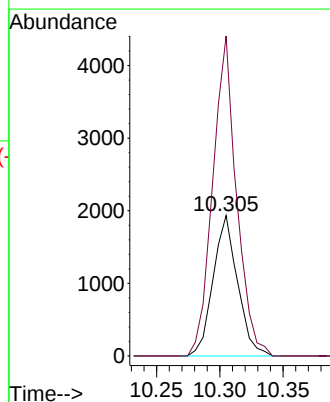
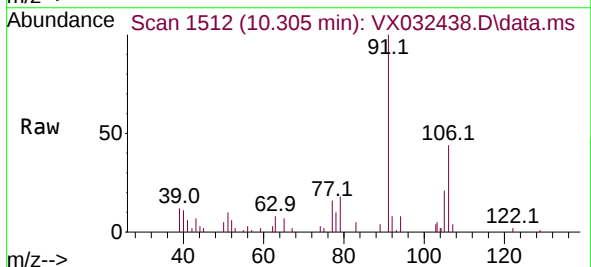
Manual Integrations  
APPROVED

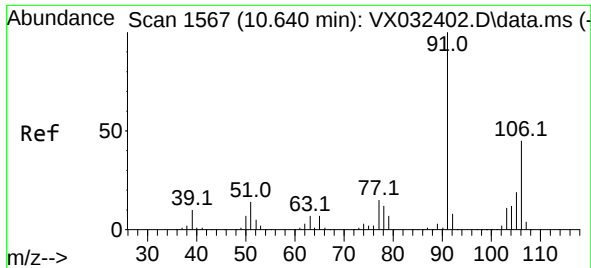
Reviewed By :John Carlone 10/28/2022  
Supervised By :Mahesh Dadoda 10/31/2022



#68  
m/p-Xylenes  
Concen: 0.971 ug/l  
RT: 10.305 min Scan# 1512  
Delta R.T. 0.000 min  
Lab File: VX032438.D  
Acq: 27 Oct 2022 19:00

Tgt Ion:106 Resp: 2600  
Ion Ratio Lower Upper  
106 100  
91 221.8 164.5 246.7





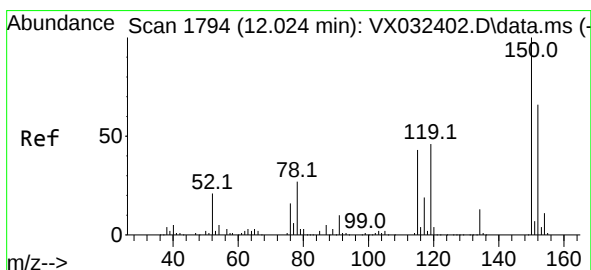
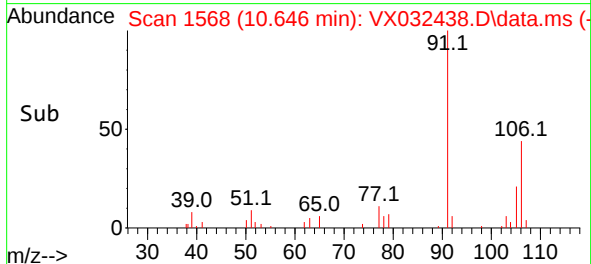
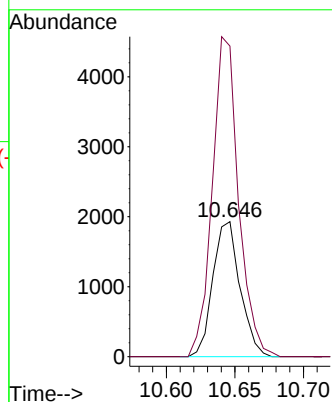
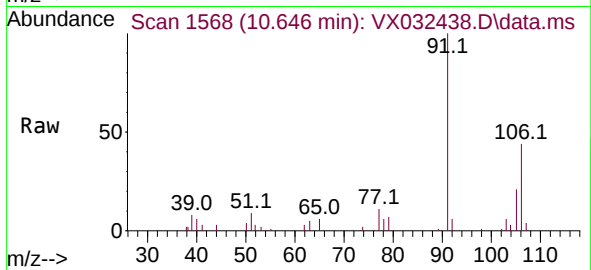
#69  
o-Xylene  
Concen: 1.023 ug/l  
RT: 10.646 min Scan# 11  
Delta R.T. 0.006 min  
Lab File: VX032438.D  
Acq: 27 Oct 2022 19:00

Instrument :  
MSVOA\_X  
ClientSampleId :  
221026039-02-VOA

Tgt Ion:106 Resp: 266  
Ion Ratio Lower Upper  
106 100  
91 228.7 109.2 327.6

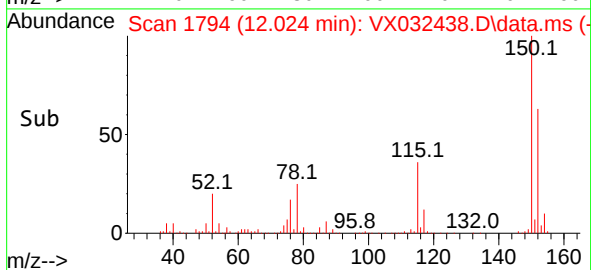
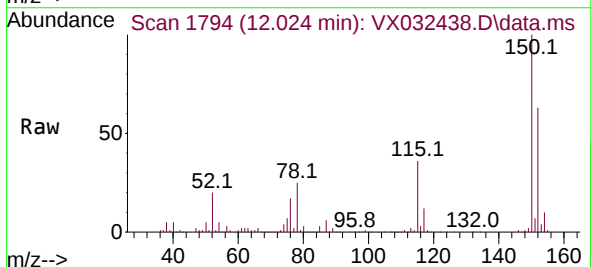
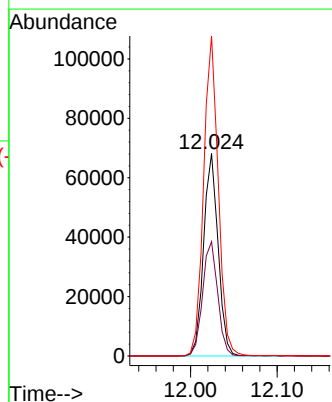
Manual Integrations  
APPROVED

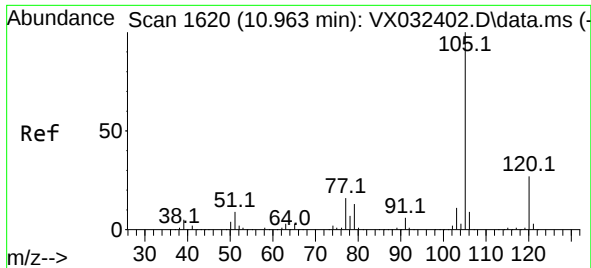
Reviewed By :John Carlone 10/28/2022  
Supervised By :Mahesh Dadoda 10/31/2022



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.024 min Scan# 1794  
Delta R.T. 0.000 min  
Lab File: VX032438.D  
Acq: 27 Oct 2022 19:00

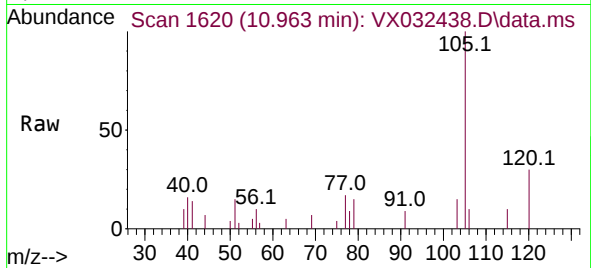
Tgt Ion:152 Resp: 79333  
Ion Ratio Lower Upper  
152 100  
115 58.7 44.0 132.0  
150 159.4 0.0 351.8





#73  
Isopropylbenzene  
Concen: 0.388 ug/l  
RT: 10.963 min Scan# 1620  
Delta R.T. 0.000 min  
Lab File: VX032438.D  
Acq: 27 Oct 2022 19:00

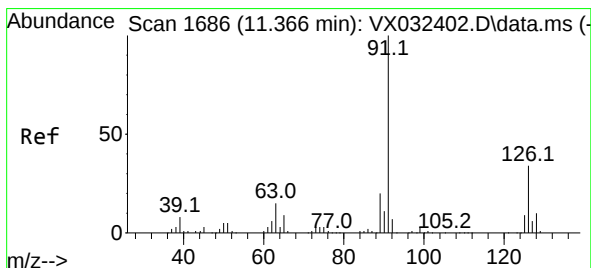
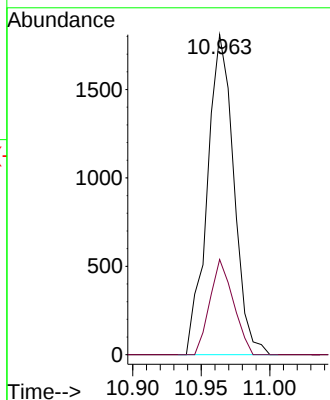
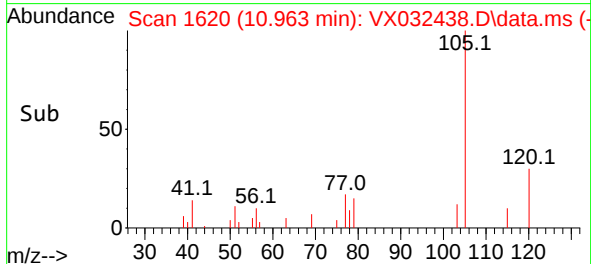
Instrument :  
MSVOA\_X  
ClientSampleId :  
221026039-02-VOA



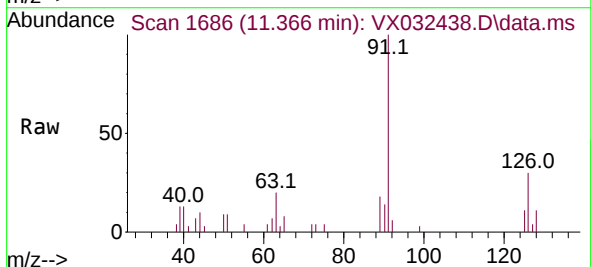
Tgt Ion:105 Resp: 244  
Ion Ratio Lower Upper  
105 100  
120 26.2 13.1 39.3

Manual Integrations  
APPROVED

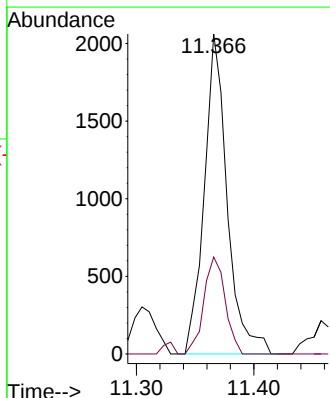
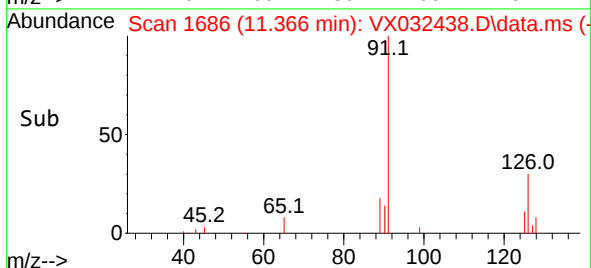
Reviewed By :John Carlone 10/28/2022  
Supervised By :Mahesh Dadoda 10/31/2022

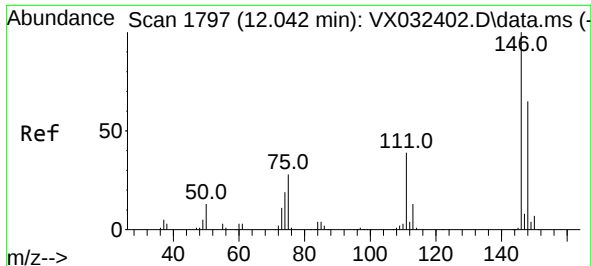


#79  
2-Chlorotoluene  
Concen: 0.645 ug/l  
RT: 11.366 min Scan# 1686  
Delta R.T. 0.000 min  
Lab File: VX032438.D  
Acq: 27 Oct 2022 19:00



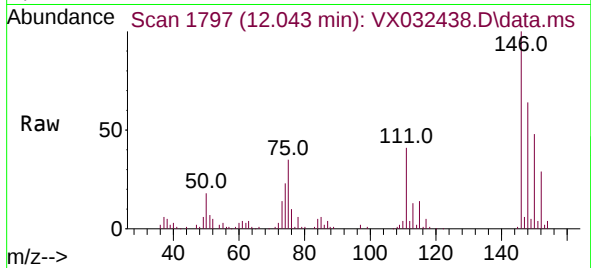
Tgt Ion: 91 Resp: 2797  
Ion Ratio Lower Upper  
91 100  
126 28.2 17.1 51.2





#88  
1,4-Dichlorobenzene  
Concen: 6.118 ug/l  
RT: 12.043 min Scan# 1797  
Delta R.T. 0.000 min  
Lab File: VX032438.D  
Acq: 27 Oct 2022 19:00

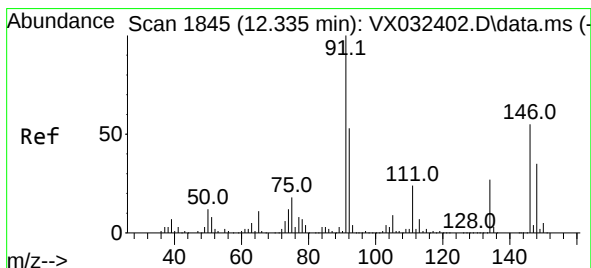
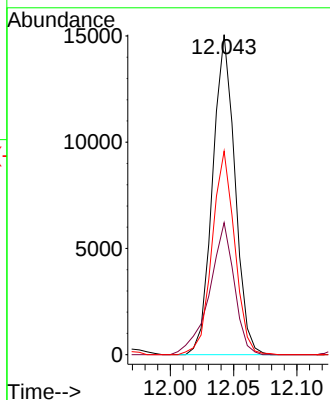
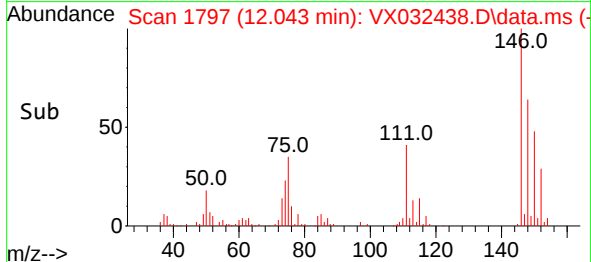
Instrument :  
MSVOA\_X  
ClientSampleId :  
221026039-02-VOA



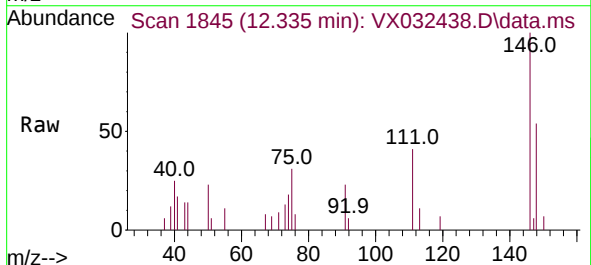
Tgt Ion:146 Resp: 1845  
Ion Ratio Lower Upper  
146 100  
111 45.5 20.5 61.6  
148 64.6 32.2 96.6

Manual Integrations  
APPROVED

Reviewed By :John Carlone 10/28/2022  
Supervised By :Mahesh Dadoda 10/31/2022



#91  
1,2-Dichlorobenzene  
Concen: 0.377 ug/l  
RT: 12.335 min Scan# 1845  
Delta R.T. 0.000 min  
Lab File: VX032438.D  
Acq: 27 Oct 2022 19:00



Tgt Ion:146 Resp: 1080  
Ion Ratio Lower Upper  
146 100  
111 47.2 21.5 64.5  
148 62.0 32.0 96.2

