

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX112724\  
 Data File : VX044045.D  
 Acq On : 27 Nov 2024 16:57  
 Operator : JC/MD  
 Sample : P5021-01  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 23 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 MW-06

Manual Integrations  
 APPROVED

Reviewed By :John Carlone 12/02/2024  
 Supervised By :Mahesh Dadoda 12/02/2024

Quant Time: Nov 28 00:53:12 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X112124W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Nov 22 03:45:52 2024  
 Response via : Initial Calibration

| Compound                    | R.T.           | QIon | Response            | Conc   | Units  | Dev(Min) |
|-----------------------------|----------------|------|---------------------|--------|--------|----------|
| -----                       |                |      |                     |        |        |          |
| Internal Standards          |                |      |                     |        |        |          |
| 1) Pentafluorobenzene       | 5.544          | 168  | 129210              | 50.000 | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene     | 6.757          | 114  | 250668              | 50.000 | ug/l   | 0.00     |
| 63) Chlorobenzene-d5        | 10.049         | 117  | 215542              | 50.000 | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4  | 12.018         | 152  | 96495               | 50.000 | ug/l   | 0.00     |
|                             |                |      |                     |        |        |          |
| System Monitoring Compounds |                |      |                     |        |        |          |
| 33) 1,2-Dichloroethane-d4   | 5.952          | 65   | 116992              | 52.790 | ug/l   | 0.00     |
| Spiked Amount 50.000        | Range 74 - 125 |      | Recovery = 105.580% |        |        |          |
| 35) Dibromofluoromethane    | 5.379          | 113  | 83426               | 46.577 | ug/l   | 0.00     |
| Spiked Amount 50.000        | Range 75 - 124 |      | Recovery = 93.160%  |        |        |          |
| 50) Toluene-d8              | 8.647          | 98   | 309191              | 50.077 | ug/l   | 0.00     |
| Spiked Amount 50.000        | Range 86 - 113 |      | Recovery = 100.160% |        |        |          |
| 62) 4-Bromofluorobenzene    | 11.079         | 95   | 109958              | 52.329 | ug/l   | 0.00     |
| Spiked Amount 50.000        | Range 77 - 121 |      | Recovery = 104.660% |        |        |          |
|                             |                |      |                     |        |        |          |
| Target Compounds            |                |      |                     |        | Qvalue |          |
| 16) Acetone                 | 2.386          | 43   | 10641               | 10.454 | ug/l   | 96       |
| 39) Methylcyclohexane       | 7.379          | 83   | 14452               | 4.984  | ug/l   | 90       |
| 40) Benzene                 | 6.031          | 78   | 59047               | 8.493  | ug/l   | 96       |
| 51) 4-Methyl-2-Pentanone    | 8.580          | 43   | 13415               | 4.986  | ug/l   | 97       |
| 52) Toluene                 | 8.720          | 92   | 5675                | 1.364  | ug/l   | 98       |
| 67) Ethyl Benzene           | 10.195         | 91   | 16692               | 2.081  | ug/l   | 94       |
| 68) m/p-Xylenes             | 10.299         | 106  | 10688               | 3.573  | ug/l   | 99       |
| 69) o-Xylene                | 10.640         | 106  | 4806                | 1.645  | ug/l   | 100      |
| 73) Isopropylbenzene        | 10.957         | 105  | 162829              | 21.952 | ug/l   | 99       |
| 78) n-propylbenzene         | 11.305         | 91   | 431454              | 52.081 | ug/l   | 97       |
| 80) 1,3,5-Trimethylbenzene  | 11.451         | 105  | 7467                | 1.224  | ug/l   | 99       |
| 83) tert-Butylbenzene       | 11.713         | 119  | 3090                | 0.511  | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene  | 11.750         | 105  | 13023               | 2.144  | ug/l   | 98       |
| 85) sec-Butylbenzene        | 11.890         | 105  | 27173               | 3.667  | ug/l   | 95       |
| 89) n-Butylbenzene          | 12.329         | 91   | 12415m              | 2.339  | ug/l   |          |
| 95) Naphthalene             | 13.774         | 128  | 606389              | 87.855 | ug/l   | 99       |
| -----                       |                |      |                     |        |        |          |

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

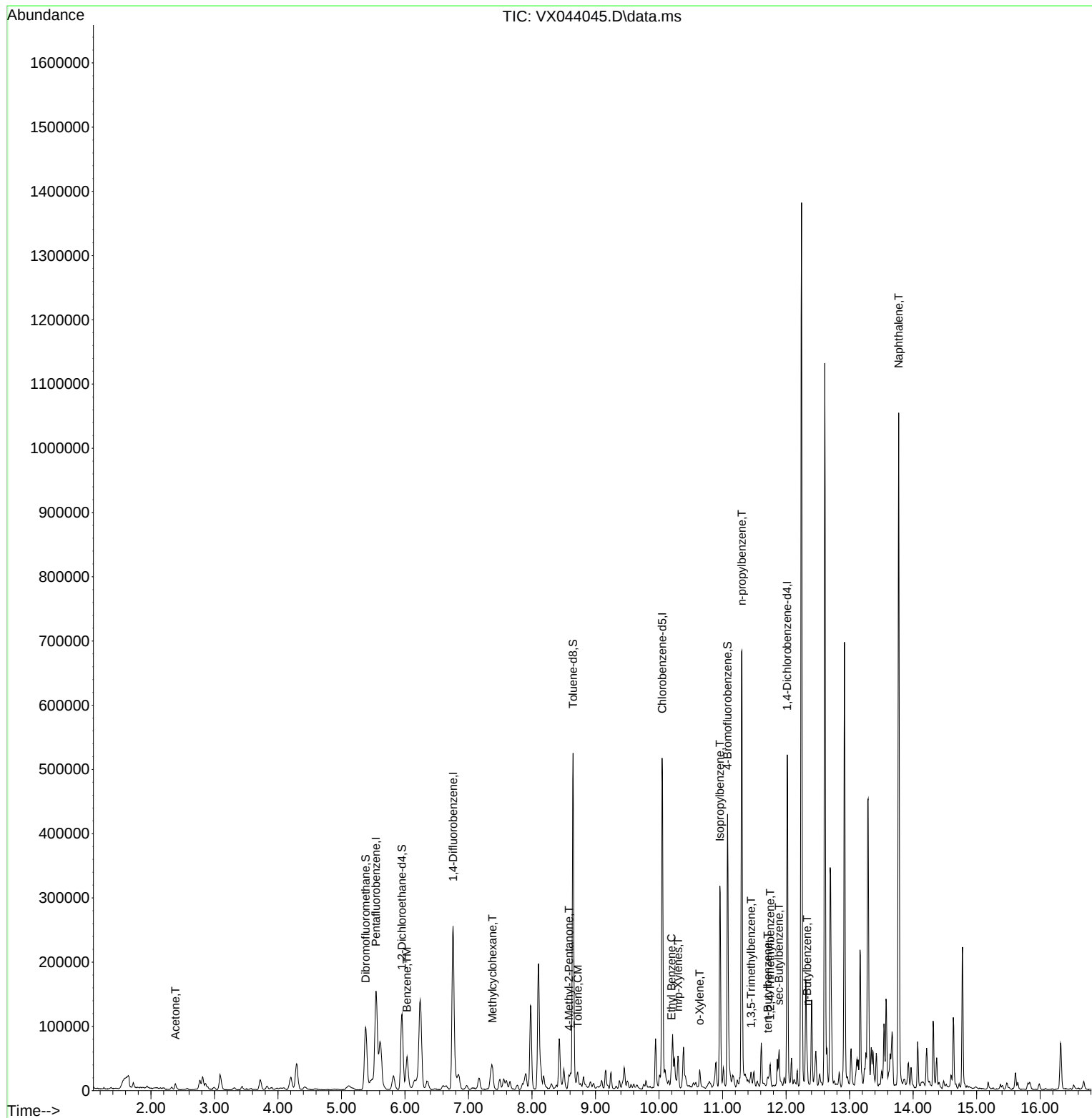
Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX112724\  
Data File : VX044045.D  
Acq On : 27 Nov 2024 16:57  
Operator : JC/MD  
Sample : P5021-01  
Misc : 5.0mL/MSVOA\_X/WATER  
ALS Vial : 23 Sample Multiplier: 1

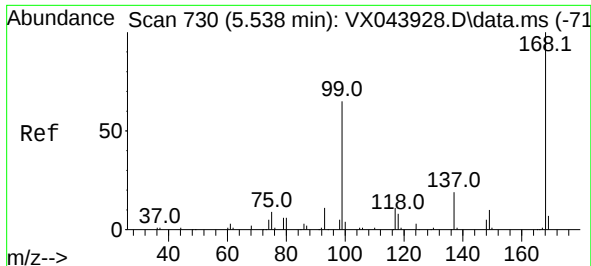
Instrument :  
MSVOA\_X  
ClientSampleId :  
MW-06

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Supervised By :Mahesh Dadoda 12/02/2024

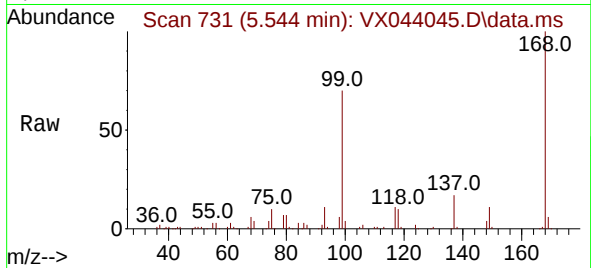
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Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X112124W.M  
Quant Title : SW846 8260  
QLast Update : Fri Nov 22 03:45:52 2024  
Response via : Initial Calibration





#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.544 min Scan# 731  
Delta R.T. 0.006 min  
Lab File: VX044045.D  
Acq: 27 Nov 2024 16:57

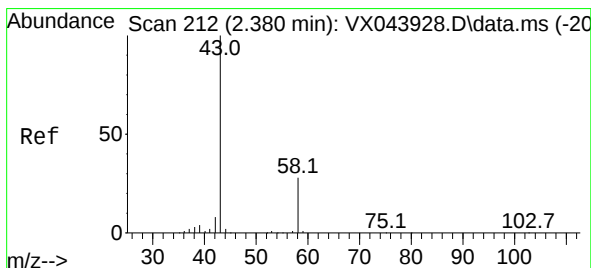
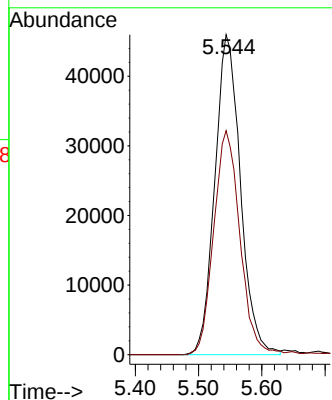
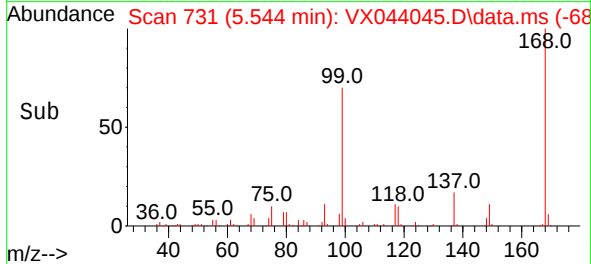
Instrument :  
MSVOA\_X  
ClientSampleId :  
MW-06



Tgt Ion:168 Resp: 129210  
Ion Ratio Lower Upper  
168 100  
99 70.0 51.8 77.8

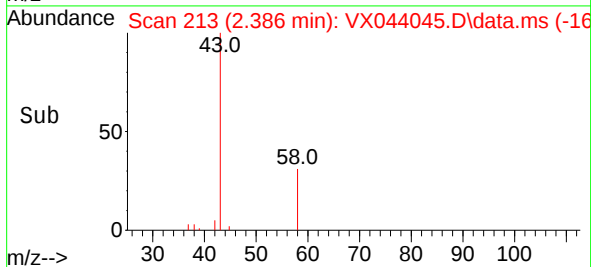
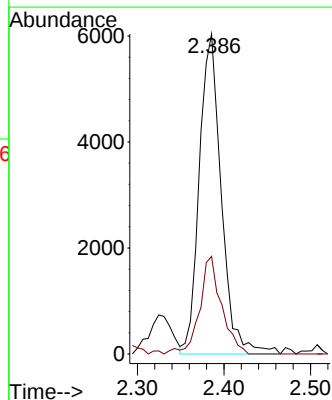
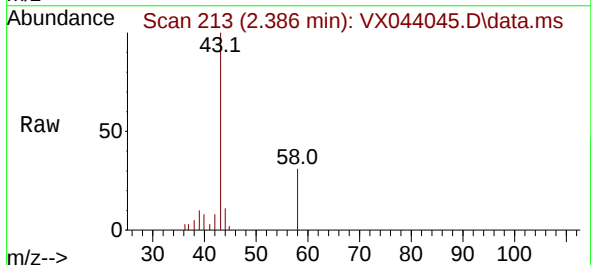
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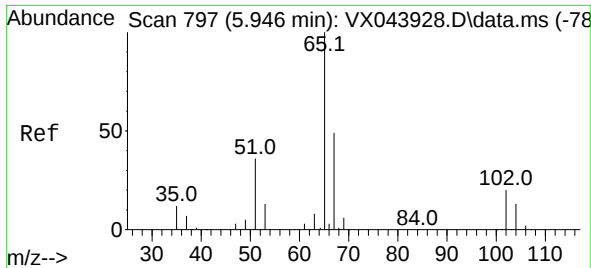
Reviewed By :John Carlone 12/02/2024  
Supervised By :Mahesh Dadoda 12/02/2024



#16  
Acetone  
Concen: 10.454 ug/l  
RT: 2.386 min Scan# 213  
Delta R.T. 0.006 min  
Lab File: VX044045.D  
Acq: 27 Nov 2024 16:57

Tgt Ion: 43 Resp: 10641  
Ion Ratio Lower Upper  
43 100  
58 30.5 22.7 34.1





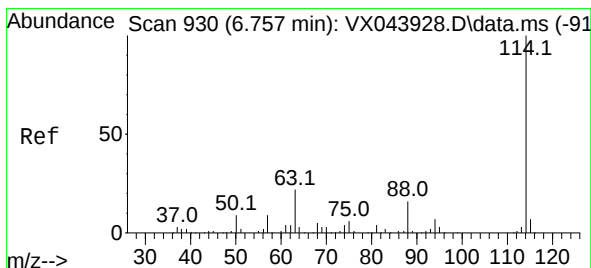
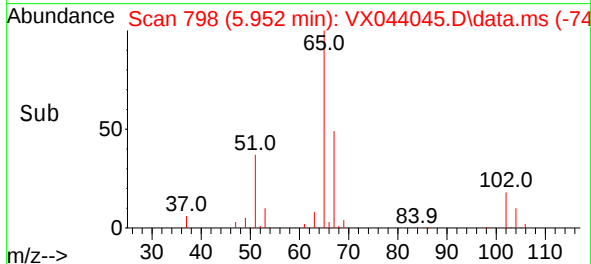
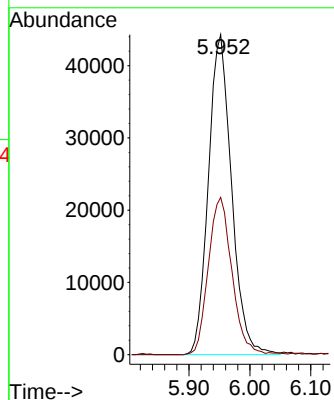
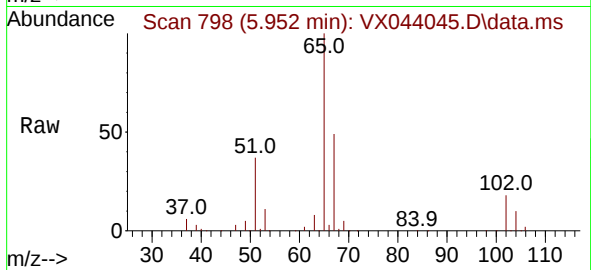
#33  
 1,2-Dichloroethane-d4  
 Concen: 52.790 ug/l  
 RT: 5.952 min Scan# 798  
 Delta R.T. 0.006 min  
 Lab File: VX044045.D  
 Acq: 27 Nov 2024 16:57

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 MW-06

Tgt Ion: 65 Resp: 116992  
 Ion Ratio Lower Upper  
 65 100  
 67 50.2 0.0 100.8

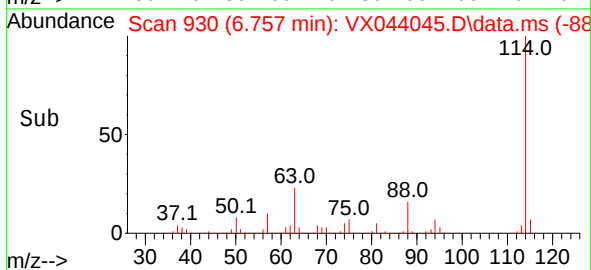
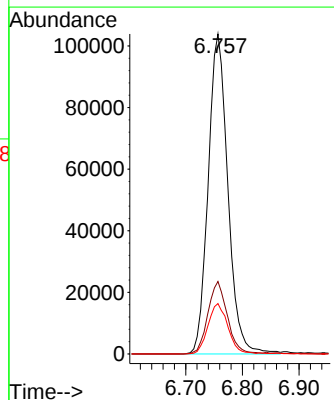
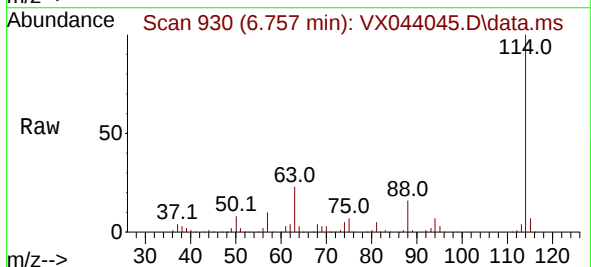
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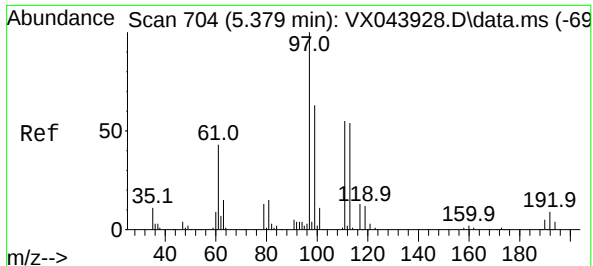
Reviewed By :John Carlone 12/02/2024  
 Supervised By :Mahesh Dadoda 12/02/2024



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 6.757 min Scan# 930  
 Delta R.T. -0.000 min  
 Lab File: VX044045.D  
 Acq: 27 Nov 2024 16:57

Tgt Ion:114 Resp: 250668  
 Ion Ratio Lower Upper  
 114 100  
 63 22.6 0.0 44.0  
 88 15.8 0.0 32.4





#35

Dibromofluoromethane

Concen: 46.577 ug/l

RT: 5.379 min Scan# 704

Delta R.T. -0.000 min

Lab File: VX044045.D

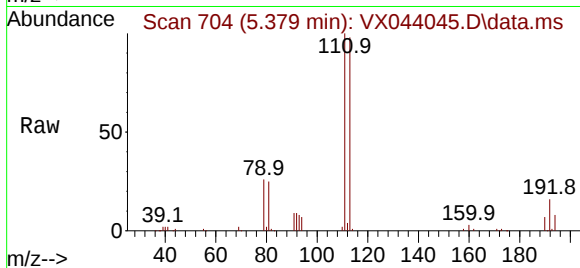
Acq: 27 Nov 2024 16:57

Instrument :

MSVOA\_X

ClientSampleId :

MW-06



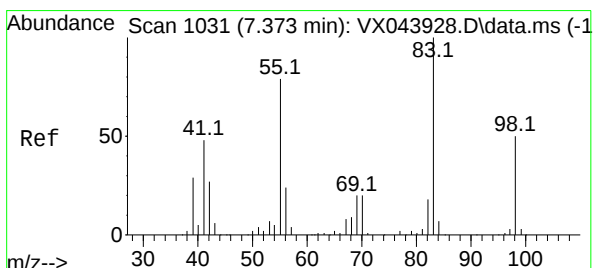
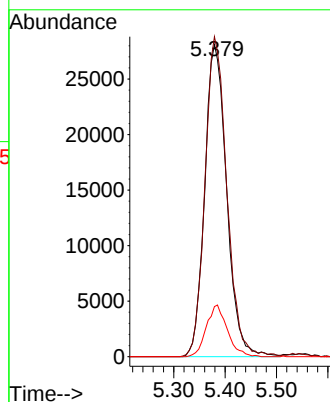
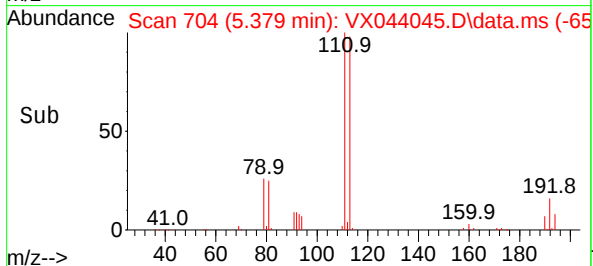
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 113   | Resp: | 83420 |
| Ion      | Ratio | Lower | Upper |
| 113      | 100   |       |       |
| 111      | 102.3 | 81.0  | 121.4 |
| 192      | 15.9  | 13.0  | 19.6  |

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/02/2024

Supervised By :Mahesh Dadoda 12/02/2024



#39

Methylcyclohexane

Concen: 4.984 ug/l

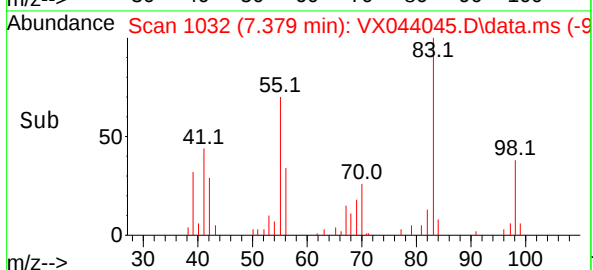
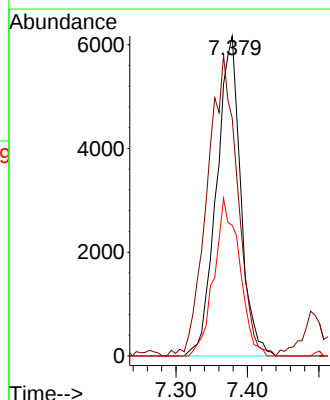
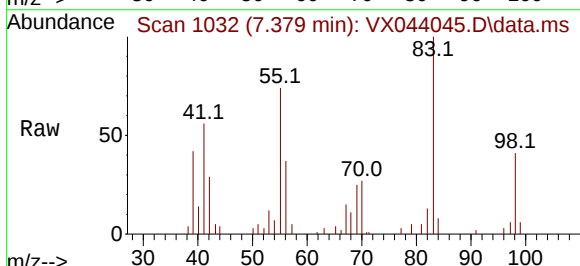
RT: 7.379 min Scan# 1032

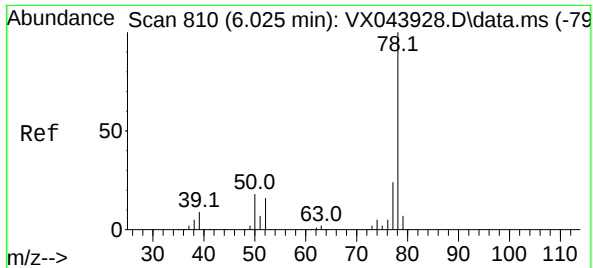
Delta R.T. 0.006 min

Lab File: VX044045.D

Acq: 27 Nov 2024 16:57

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 83    | Resp: | 14452 |
| Ion      | Ratio | Lower | Upper |
| 83       | 100   |       |       |
| 55       | 72.5  | 63.1  | 94.7  |
| 98       | 40.8  | 40.0  | 60.0  |





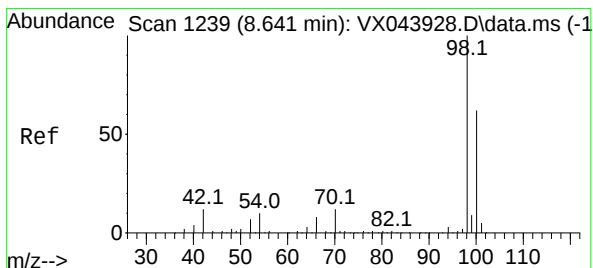
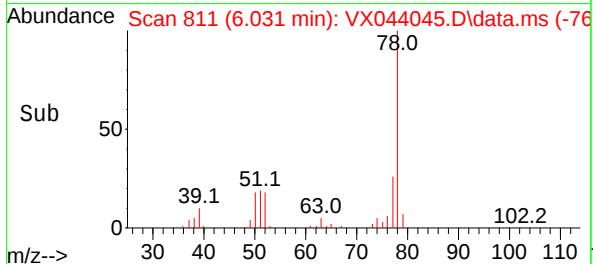
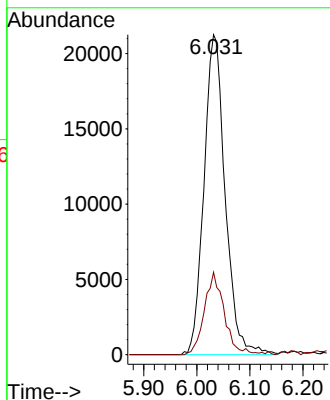
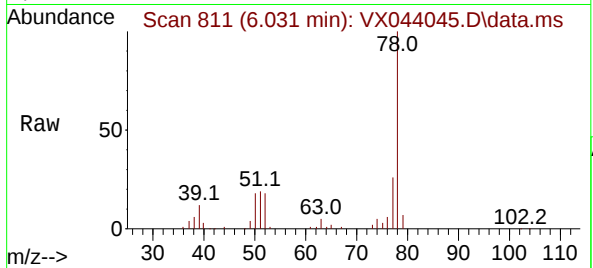
#40  
Benzene  
Concen: 8.493 ug/l  
RT: 6.031 min Scan# 810  
Delta R.T. 0.006 min  
Lab File: VX044045.D  
Acq: 27 Nov 2024 16:57

Instrument :  
MSVOA\_X  
ClientSampleId :  
MW-06

Tgt Ion: 78 Resp: 5904  
Ion Ratio Lower Upper  
78 100  
77 25.7 19.2 28.8

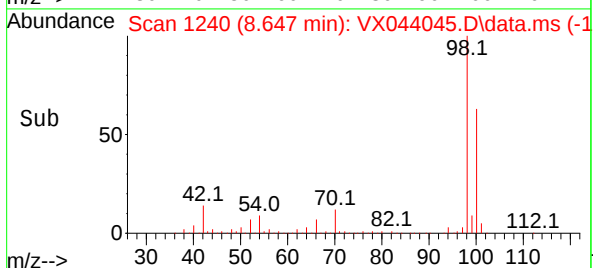
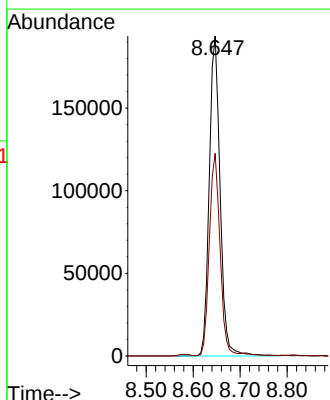
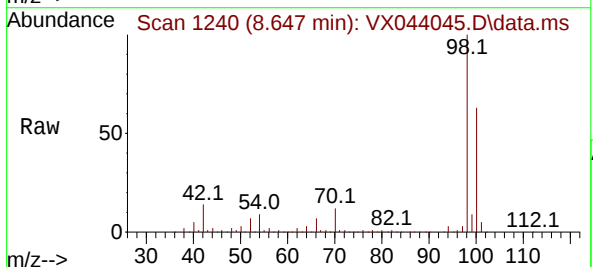
Manual Integrations  
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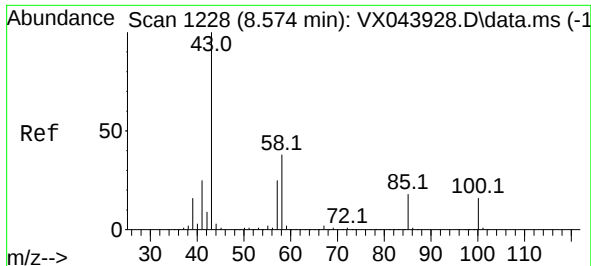
Reviewed By :John Carlone 12/02/2024  
Supervised By :Mahesh Dadoda 12/02/2024



#50  
Toluene-d8  
Concen: 50.077 ug/l  
RT: 8.647 min Scan# 1240  
Delta R.T. 0.006 min  
Lab File: VX044045.D  
Acq: 27 Nov 2024 16:57

Tgt Ion: 98 Resp: 309191  
Ion Ratio Lower Upper  
98 100  
100 62.1 52.6 79.0





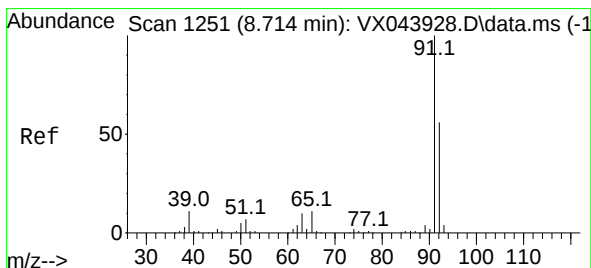
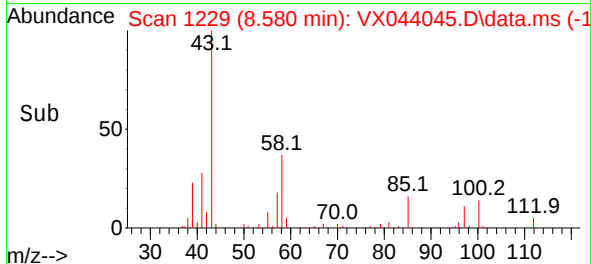
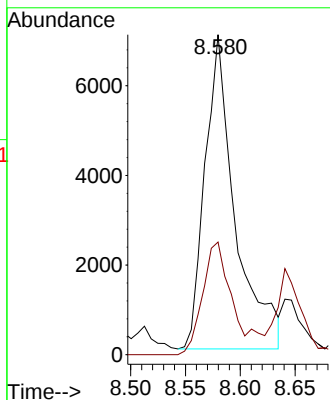
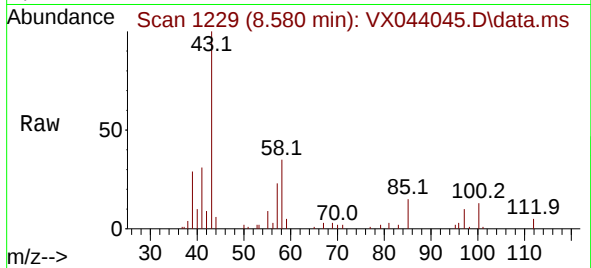
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4-Methyl-2-Pentanone  
Concen: 4.986 ug/l  
RT: 8.580 min Scan# 1229  
Delta R.T. 0.006 min  
Lab File: VX044045.D  
Acq: 27 Nov 2024 16:57

Instrument :  
MSVOA\_X  
ClientSampleId :  
MW-06

Tgt Ion: 43 Resp: 13415  
Ion Ratio Lower Upper  
43 100  
58 35.6 30.0 45.0

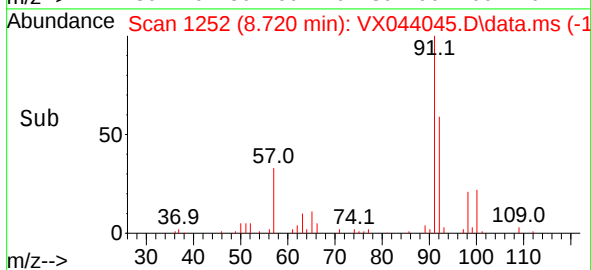
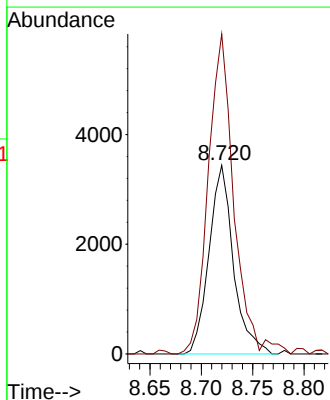
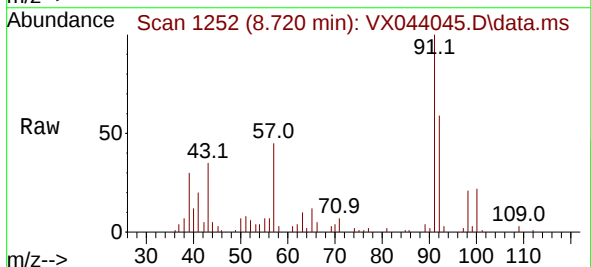
Manual Integrations  
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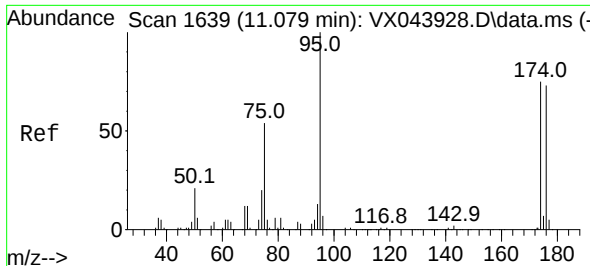
Reviewed By :John Carlone 12/02/2024  
Supervised By :Mahesh Dadoda 12/02/2024



#52  
Toluene  
Concen: 1.364 ug/l  
RT: 8.720 min Scan# 1252  
Delta R.T. 0.006 min  
Lab File: VX044045.D  
Acq: 27 Nov 2024 16:57

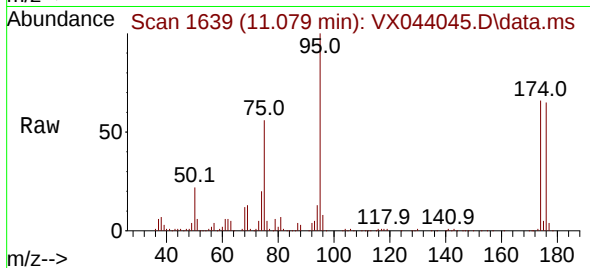
Tgt Ion: 92 Resp: 5675  
Ion Ratio Lower Upper  
92 100  
91 177.8 139.7 209.5





#62  
4-Bromofluorobenzene  
Concen: 52.329 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. -0.000 min  
Lab File: VX044045.D  
Acq: 27 Nov 2024 16:57

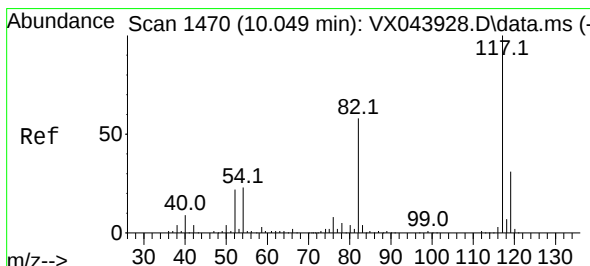
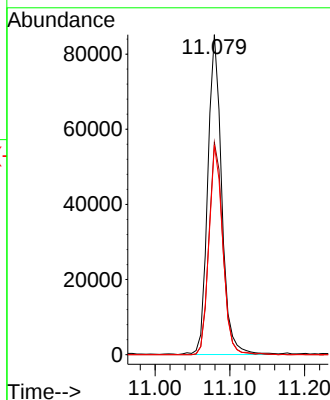
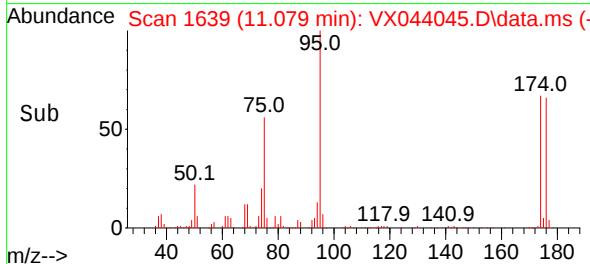
Instrument :  
MSVOA\_X  
ClientSampleId :  
MW-06



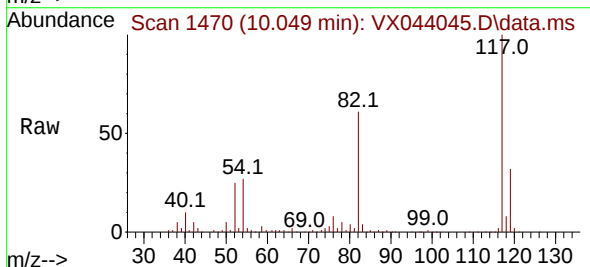
Tgt Ion: 95 Resp: 109958  
Ion Ratio Lower Upper  
95 100  
174 66.5 0.0 150.4  
176 65.1 0.0 146.0

Manual Integrations  
APPROVED

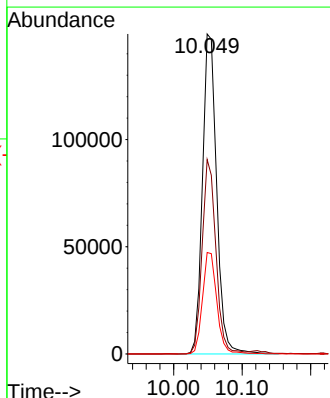
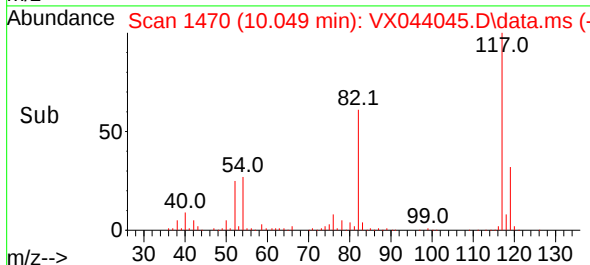
Reviewed By :John Carlone 12/02/2024  
Supervised By :Mahesh Dadoda 12/02/2024

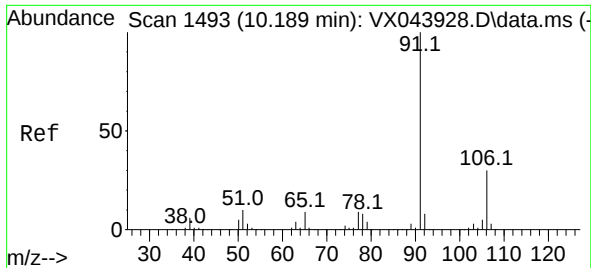


#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.049 min Scan# 1470  
Delta R.T. -0.000 min  
Lab File: VX044045.D  
Acq: 27 Nov 2024 16:57



Tgt Ion:117 Resp: 215542  
Ion Ratio Lower Upper  
117 100  
82 60.8 46.4 69.6  
119 31.7 24.6 37.0





#67

Ethyl Benzene

Concen: 2.081 ug/l

RT: 10.195 min Scan# 1493

Delta R.T. 0.006 min

Lab File: VX044045.D

Acq: 27 Nov 2024 16:57

Instrument :

MSVOA\_X

ClientSampleId :

MW-06

Tgt Ion: 91 Resp: 16692

Ion Ratio Lower Upper

91 100

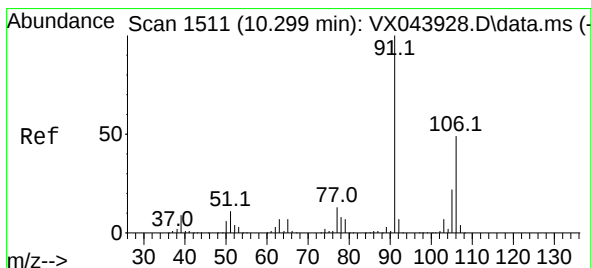
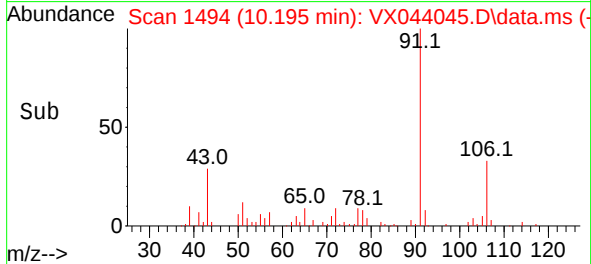
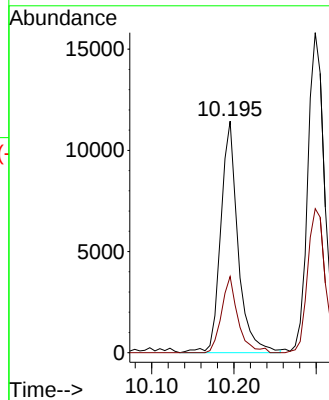
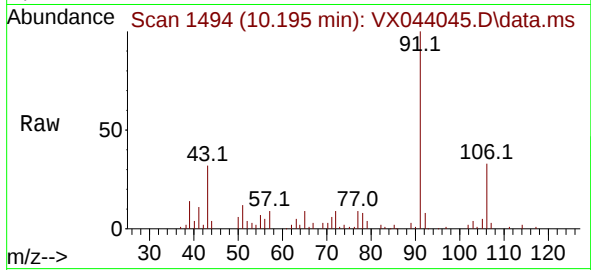
106 32.9 23.6 35.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/02/2024

Supervised By :Mahesh Dadoda 12/02/2024



#68

m/p-Xylenes

Concen: 3.573 ug/l

RT: 10.299 min Scan# 1511

Delta R.T. -0.000 min

Lab File: VX044045.D

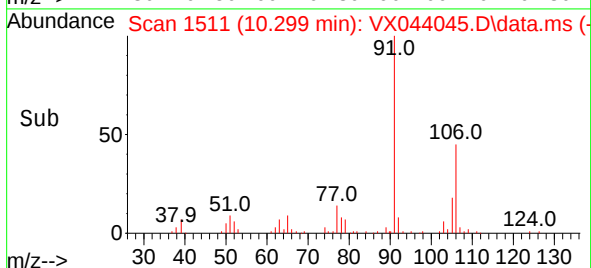
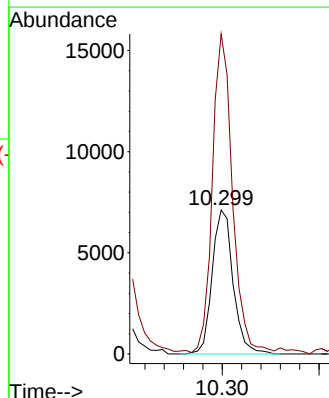
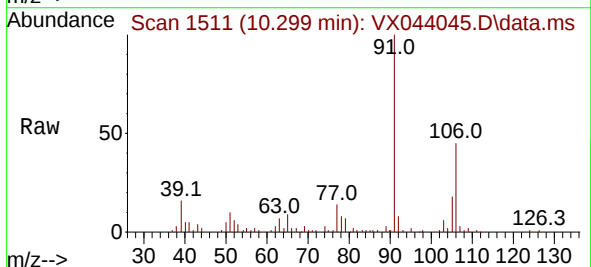
Acq: 27 Nov 2024 16:57

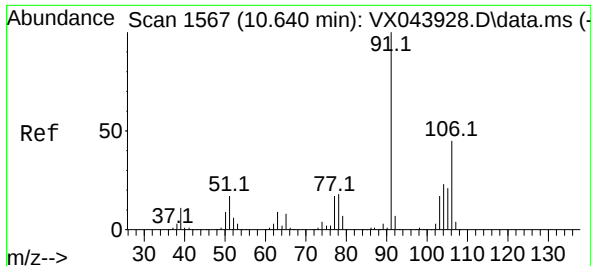
Tgt Ion:106 Resp: 10688

Ion Ratio Lower Upper

106 100

91 208.4 168.1 252.1





#69

o-Xylene

Concen: 1.645 ug/l

RT: 10.640 min Scan# 1

Delta R.T. -0.000 min

Lab File: VX044045.D

Acq: 27 Nov 2024 16:57

Instrument :

MSVOA\_X

ClientSampleId :

MW-06

Tgt Ion:106 Resp: 4800

Ion Ratio Lower Upper

106 100

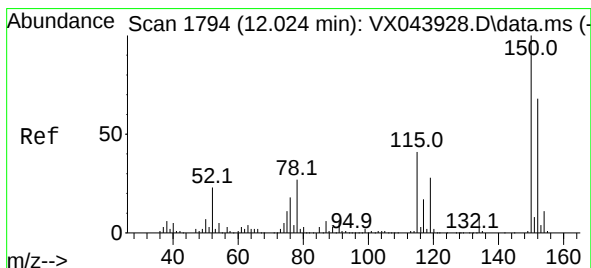
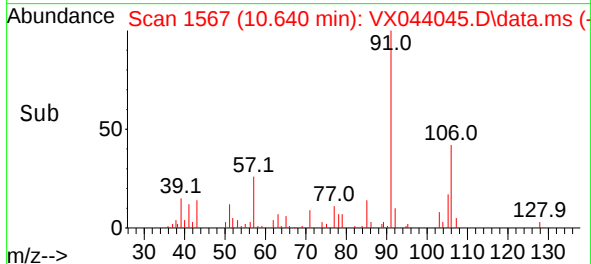
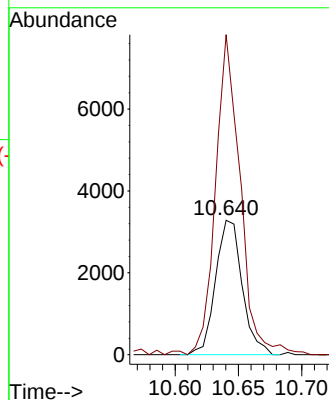
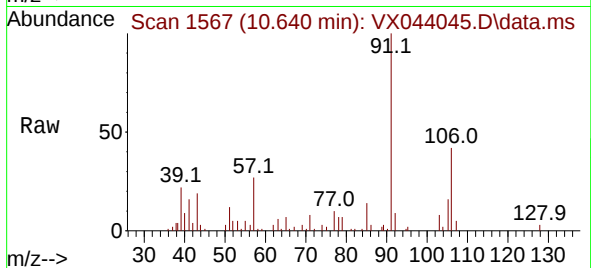
91 220.9 110.2 330.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/02/2024

Supervised By :Mahesh Dadoda 12/02/2024



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.018 min Scan# 1793

Delta R.T. -0.006 min

Lab File: VX044045.D

Acq: 27 Nov 2024 16:57

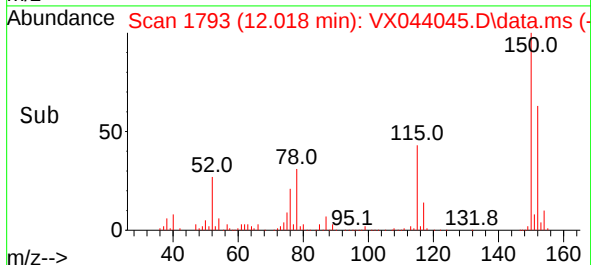
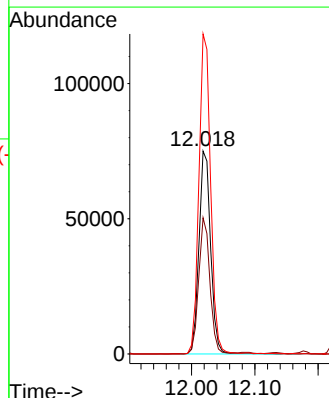
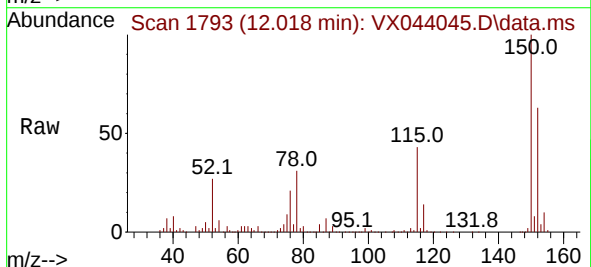
Tgt Ion:152 Resp: 96495

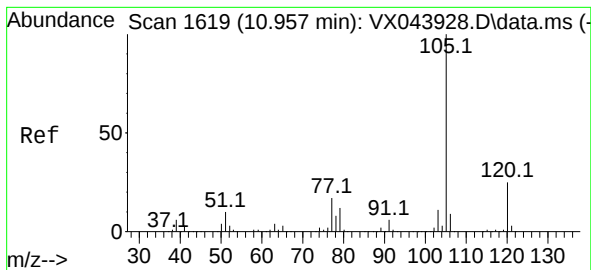
Ion Ratio Lower Upper

152 100

115 64.6 45.4 136.2

150 157.2 0.0 353.0





#73

Isopropylbenzene

Concen: 21.952 ug/l

RT: 10.957 min Scan# 1619

Delta R.T. -0.000 min

Lab File: VX044045.D

Acq: 27 Nov 2024 16:57

Instrument :

MSVOA\_X

ClientSampleId :

MW-06

Tgt Ion:105 Resp: 162829

Ion Ratio Lower Upper

105 100

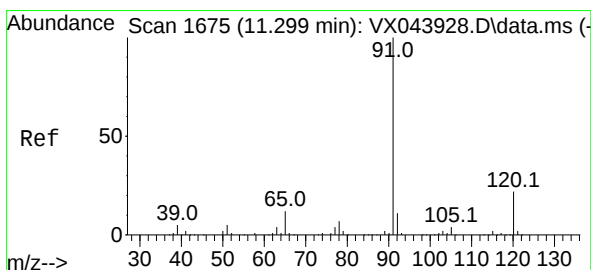
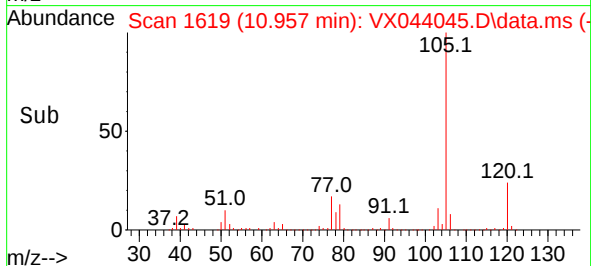
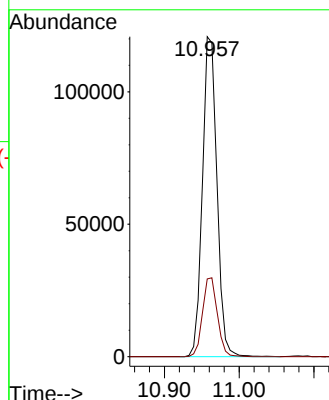
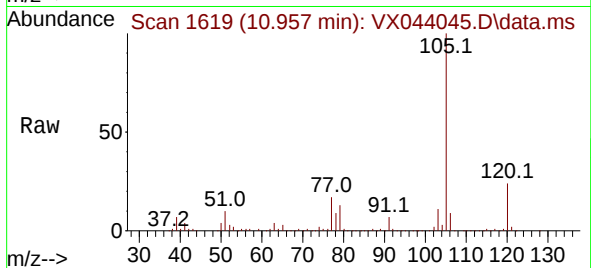
120 25.2 13.0 38.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/02/2024

Supervised By :Mahesh Dadoda 12/02/2024



#78

n-propylbenzene

Concen: 52.081 ug/l

RT: 11.305 min Scan# 1676

Delta R.T. 0.006 min

Lab File: VX044045.D

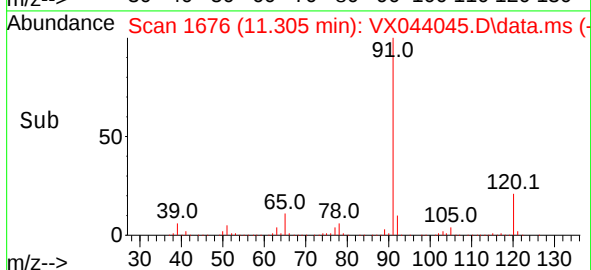
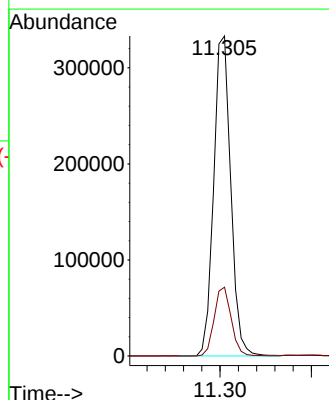
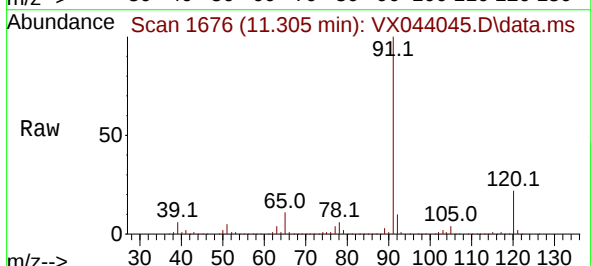
Acq: 27 Nov 2024 16:57

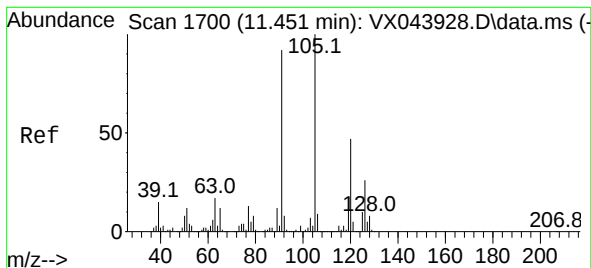
Tgt Ion: 91 Resp: 431454

Ion Ratio Lower Upper

91 100

120 21.4 11.5 34.4





#80

1,3,5-Trimethylbenzene

Concen: 1.224 ug/l

RT: 11.451 min Scan# 1700

Delta R.T. -0.000 min

Lab File: VX044045.D

Acq: 27 Nov 2024 16:57

Instrument :

MSVOA\_X

ClientSampleId :

MW-06

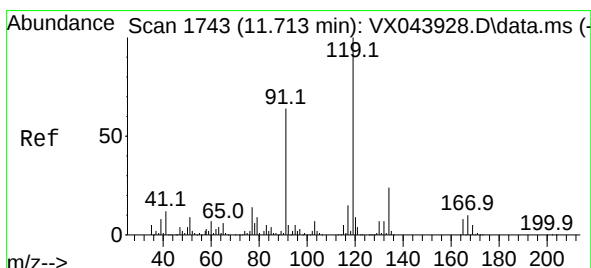
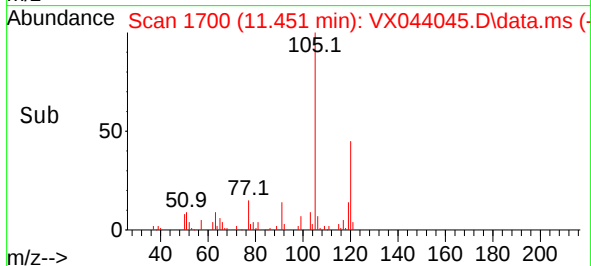
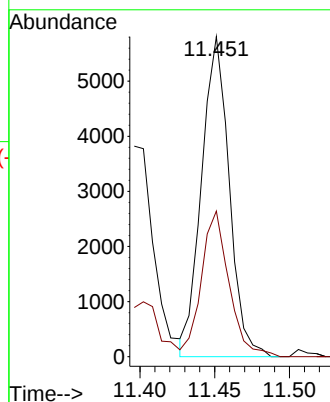
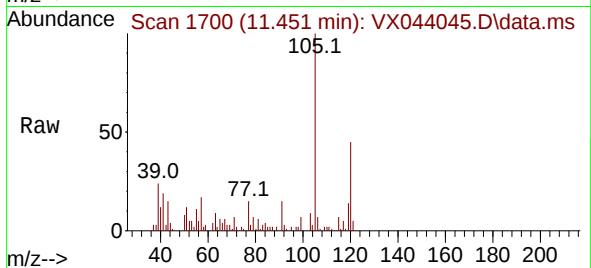
Tgt Ion:105 Resp: 746  
 Ion Ratio Lower Upper  
 105 100  
 120 45.5 23.3 69.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/02/2024

Supervised By :Mahesh Dadoda 12/02/2024



#83

tert-Butylbenzene

Concen: 0.511 ug/l

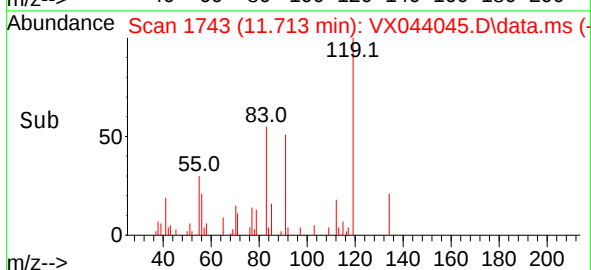
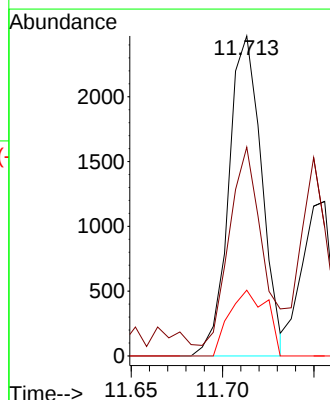
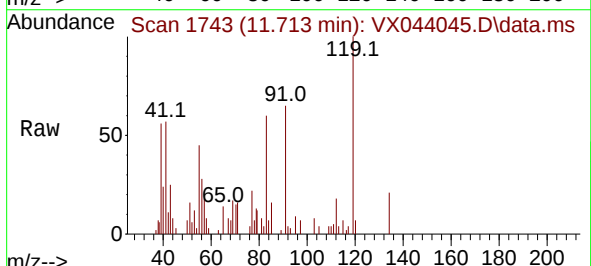
RT: 11.713 min Scan# 1743

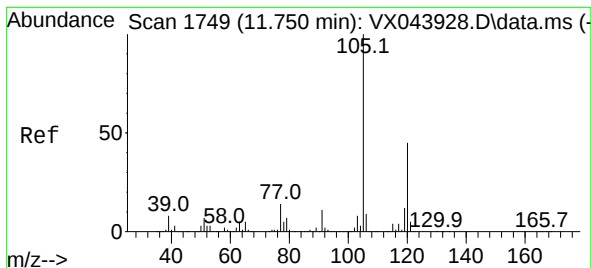
Delta R.T. -0.000 min

Lab File: VX044045.D

Acq: 27 Nov 2024 16:57

Tgt Ion:119 Resp: 3090  
 Ion Ratio Lower Upper  
 119 100  
 91 60.8 31.0 93.0  
 134 23.6 11.6 34.8





#84

1,2,4-Trimethylbenzene

Concen: 2.144 ug/l

RT: 11.750 min Scan# 1749

Delta R.T. -0.000 min

Lab File: VX044045.D

Acq: 27 Nov 2024 16:57

Instrument :

MSVOA\_X

ClientSampleId :

MW-06

Tgt Ion:105 Resp: 1302

Ion Ratio Lower Upper

105 100

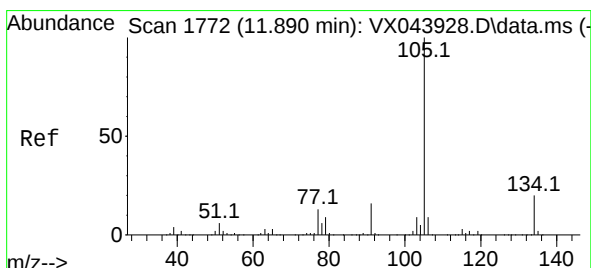
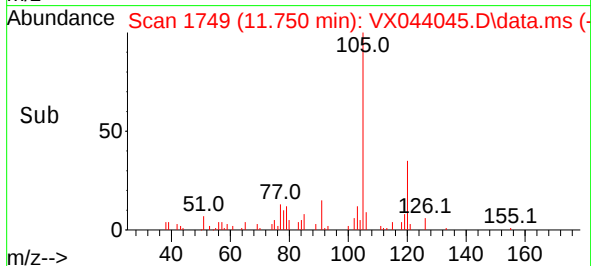
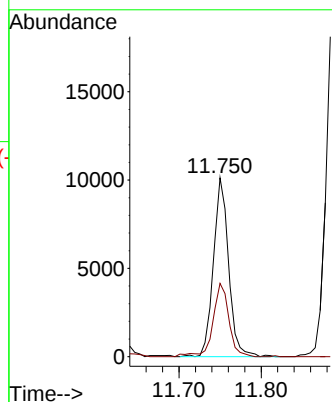
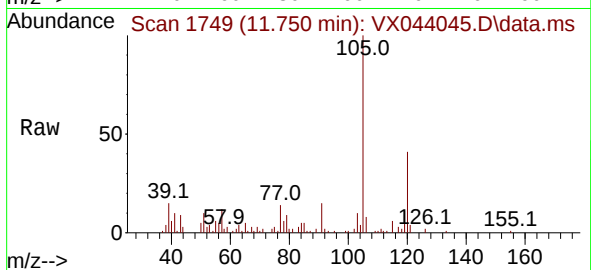
120 42.8 21.9 65.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/02/2024

Supervised By :Mahesh Dadoda 12/02/2024



#85

sec-Butylbenzene

Concen: 3.667 ug/l

RT: 11.890 min Scan# 1772

Delta R.T. -0.000 min

Lab File: VX044045.D

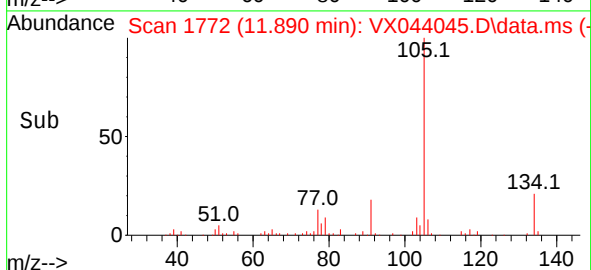
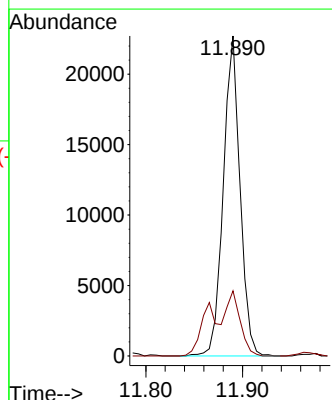
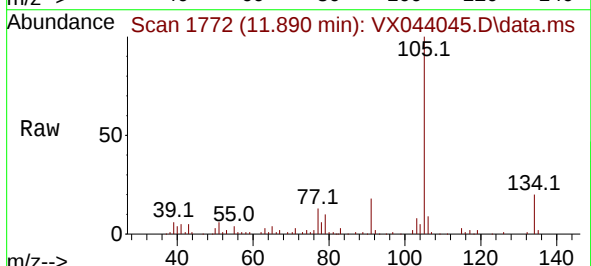
Acq: 27 Nov 2024 16:57

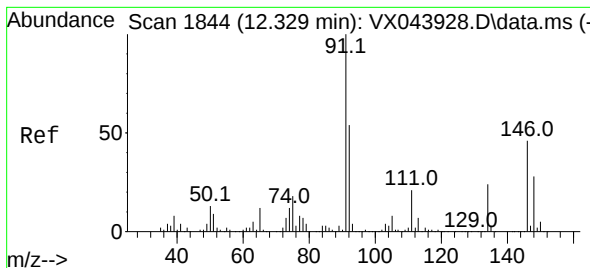
Tgt Ion:105 Resp: 27173

Ion Ratio Lower Upper

105 100

134 17.1 9.7 29.1





#89

n-Butylbenzene

Concen: 2.339 ug/l m

RT: 12.329 min Scan# 1844

Delta R.T. -0.000 min

Lab File: VX044045.D

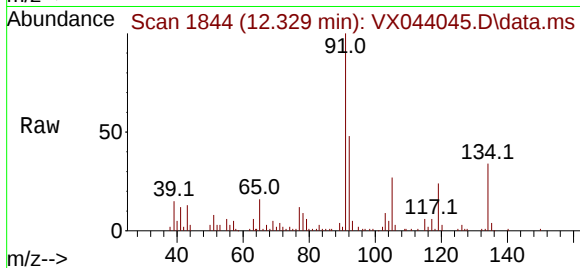
Acq: 27 Nov 2024 16:57

Instrument :

MSVOA\_X

ClientSampleId :

MW-06



Tgt Ion: 91 Resp: 12415

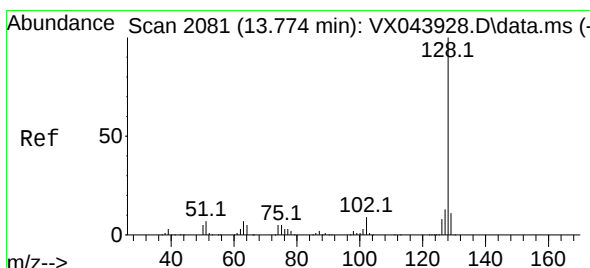
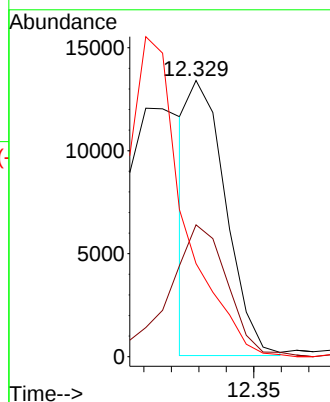
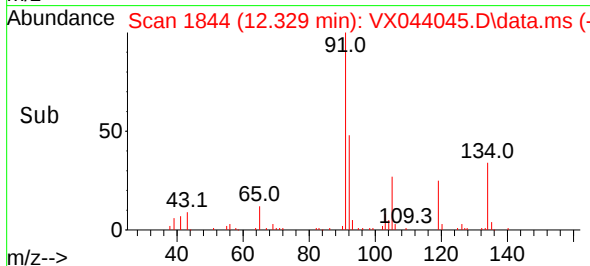
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 91  | 100   |       |       |
| 92  | 76.8  | 26.6  | 79.8  |
| 134 | 179.1 | 12.4  | 37.2  |

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/02/2024

Supervised By :Mahesh Dadoda 12/02/2024



#95

Naphthalene

Concen: 87.855 ug/l

RT: 13.774 min Scan# 2081

Delta R.T. -0.000 min

Lab File: VX044045.D

Acq: 27 Nov 2024 16:57

Tgt Ion:128 Resp: 606389

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 128 | 100   |       |       |
| 127 | 13.2  | 10.2  | 15.2  |
| 129 | 11.2  | 8.6   | 12.8  |

