

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX113022\  
 Data File : VX033144.D  
 Acq On : 30 Nov 2022 19:56  
 Operator : JC/MD  
 Sample : N5815-23  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 25 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 RW-1

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 12/01/2022  
 Supervised By : Mahesh Dadoda 12/01/2022

Quant Time: Dec 01 00:25:27 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X112222W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Nov 22 13:58:46 2022  
 Response via : Initial Calibration

| Compound                    | R.T.           | QIon | Response            | Conc    | Units  | Dev(Min) |
|-----------------------------|----------------|------|---------------------|---------|--------|----------|
| -----                       |                |      |                     |         |        |          |
| Internal Standards          |                |      |                     |         |        |          |
| 1) Pentafluorobenzene       | 5.556          | 168  | 136208              | 50.000  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene     | 6.763          | 114  | 217839              | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5        | 10.055         | 117  | 197042              | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4  | 12.024         | 152  | 106468              | 50.000  | ug/l   | 0.00     |
|                             |                |      |                     |         |        |          |
| System Monitoring Compounds |                |      |                     |         |        |          |
| 33) 1,2-Dichloroethane-d4   | 5.958          | 65   | 70869               | 53.464  | ug/l   | 0.00     |
| Spiked Amount 50.000        | Range 78 - 117 |      | Recovery = 106.920% |         |        |          |
| 35) Dibromofluoromethane    | 5.385          | 113  | 55947               | 45.556  | ug/l   | 0.00     |
| Spiked Amount 50.000        | Range 75 - 124 |      | Recovery = 91.120%  |         |        |          |
| 50) Toluene-d8              | 8.647          | 98   | 196407              | 53.295  | ug/l   | 0.00     |
| Spiked Amount 50.000        | Range 92 - 112 |      | Recovery = 106.600% |         |        |          |
| 62) 4-Bromofluorobenzene    | 11.079         | 95   | 79142               | 49.058  | ug/l   | 0.00     |
| Spiked Amount 50.000        | Range 83 - 123 |      | Recovery = 98.120%  |         |        |          |
|                             |                |      |                     |         |        |          |
| Target Compounds            |                |      |                     |         |        | Qvalue   |
| 11) Tert butyl alcohol      | 2.977          | 59   | 39566               | 188.167 | ug/l # | 72       |
| 16) Acetone                 | 2.386          | 43   | 1808m               | 2.919   | ug/l   |          |
| 19) Methyl tert-butyl Ether | 3.111          | 73   | 166264              | 40.333  | ug/l # | 1        |
| 22) Diisopropyl ether       | 3.764          | 45   | 8110                | 1.941   | ug/l # | 89       |
| 31) Cyclohexane             | 5.477          | 56   | 135083              | 62.850  | ug/l   | 95       |
| 39) Methylcyclohexane       | 7.379          | 83   | 63034               | 28.134  | ug/l   | 92       |
| 40) Benzene                 | 6.038          | 78   | 847913              | 154.007 | ug/l   | 98       |
| 52) Toluene                 | 8.720          | 92   | 20454               | 5.647   | ug/l   | 100      |
| 67) Ethyl Benzene           | 10.195         | 91   | 3202081             | 459.497 | ug/l   | 96       |
| 68) m/p-Xylenes             | 10.305         | 106  | 228789              | 83.841  | ug/l   | 99       |
| 69) o-Xylene                | 10.647         | 106  | 6422                | 2.432   | ug/l   | 100      |
| 73) Isopropylbenzene        | 10.964         | 105  | 201534              | 26.489  | ug/l   | 100      |
| 78) n-propylbenzene         | 11.305         | 91   | 498283              | 57.283  | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene  | 11.451         | 105  | 66005               | 10.327  | ug/l   | 100      |
| 84) 1,2,4-Trimethylbenzene  | 11.750         | 105  | 306929              | 48.162  | ug/l   | 99       |
| 85) sec-Butylbenzene        | 11.890         | 105  | 22368               | 2.939   | ug/l   | 98       |
| 86) p-Isopropyltoluene      | 12.006         | 119  | 9588                | 1.487   | ug/l # | 75       |
| 89) n-Butylbenzene          | 12.329         | 91   | 13468m              | 2.424   | ug/l   |          |
| 95) Naphthalene             | 13.774         | 128  | 270163              | 39.683  | ug/l   | 99       |
| -----                       |                |      |                     |         |        |          |

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

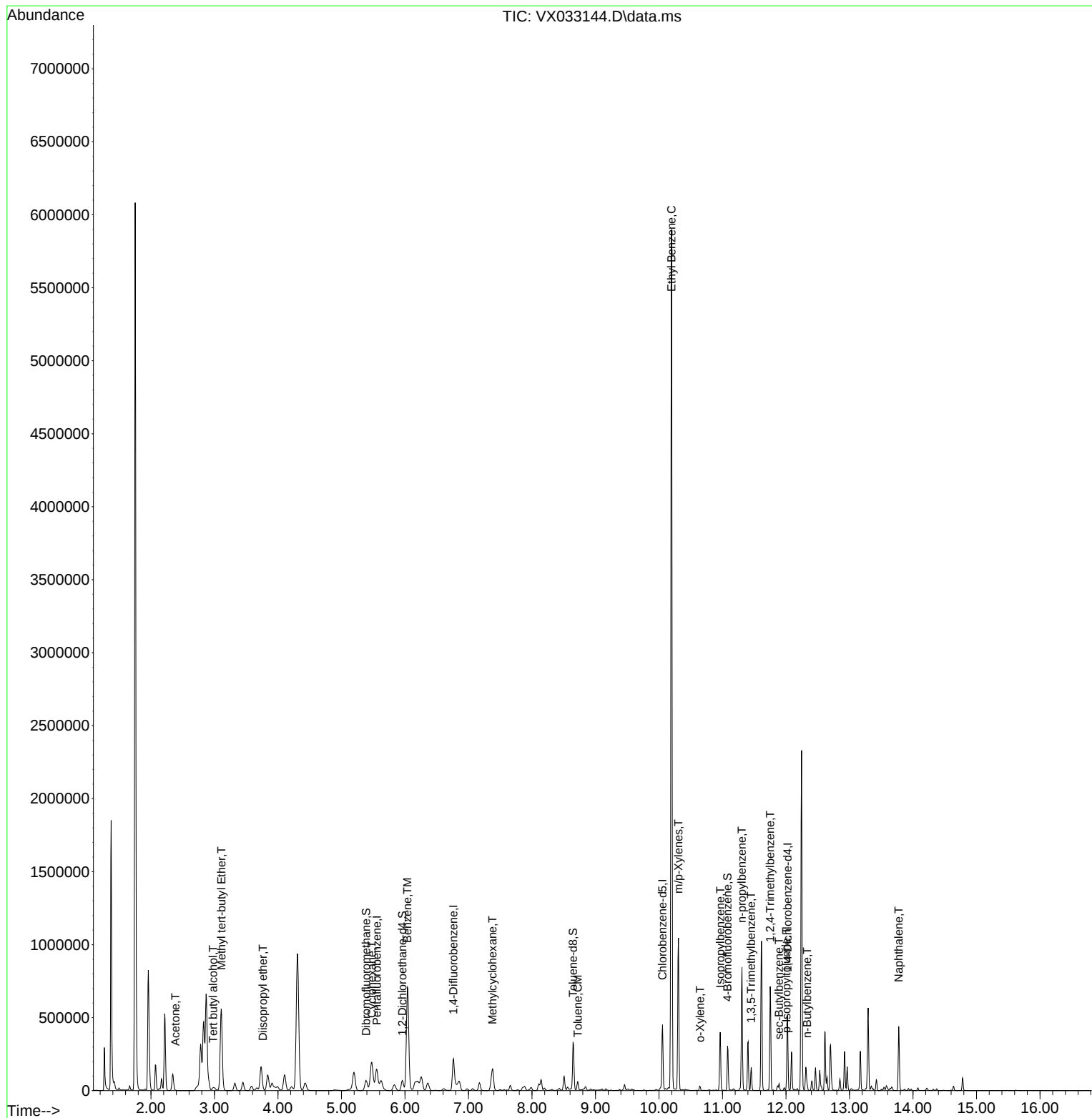
Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX113022\  
Data File : VX033144.D  
Acq On : 30 Nov 2022 19:56  
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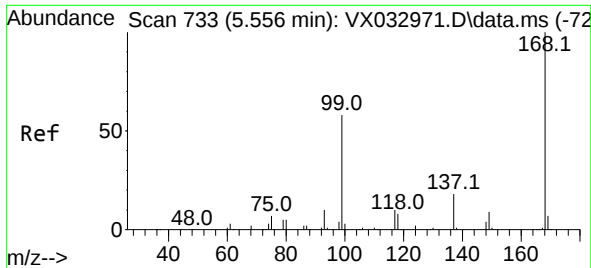
Instrument :  
MSVOA\_X  
ClientSampleId :  
RW-1

Quant Time: Dec 01 00:25:27 2022  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X112222W.M  
Quant Title : SW846 8260  
QLast Update : Tue Nov 22 13:58:46 2022  
Response via : Initial Calibration

Manual Integrations  
APPROVED

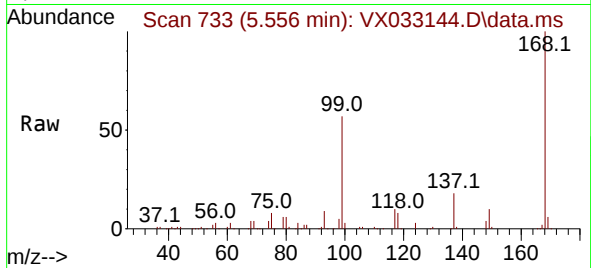
Reviewed By : John Carlone 12/01/2022  
Supervised By : Mahesh Dadoda 12/01/2022





#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.556 min Scan# 71  
Delta R.T. -0.000 min  
Lab File: VX033144.D  
Acq: 30 Nov 2022 19:56

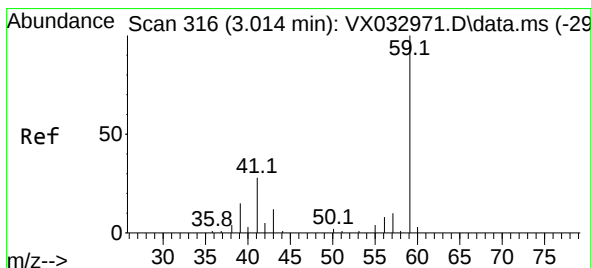
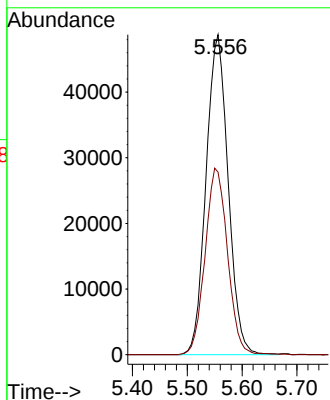
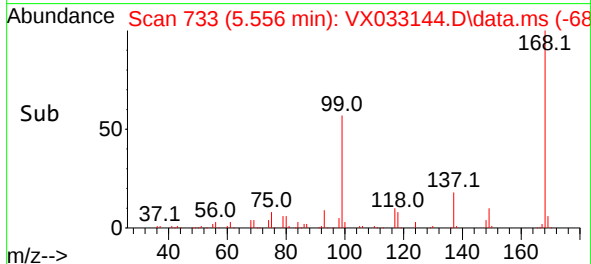
Instrument :  
MSVOA\_X  
ClientSampleId :  
RW-1



Tgt Ion:168 Resp: 136208  
Ion Ratio Lower Upper  
168 100  
99 57.1 46.1 69.1

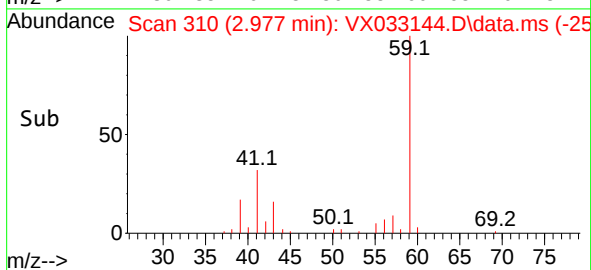
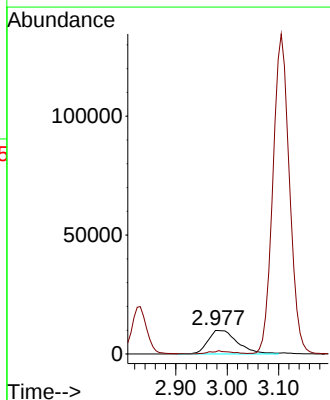
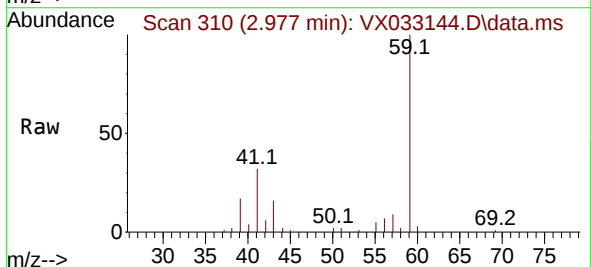
Manual Integrations  
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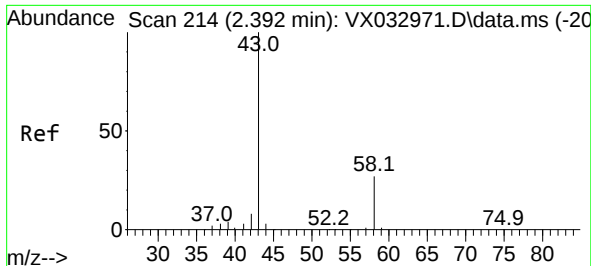
Reviewed By :John Carlone 12/01/2022  
Supervised By :Mahesh Dadoda 12/01/2022



#11  
Tert butyl alcohol  
Concen: 188.167 ug/l  
RT: 2.977 min Scan# 310  
Delta R.T. 0.012 min  
Lab File: VX033144.D  
Acq: 30 Nov 2022 19:56

Tgt Ion: 59 Resp: 39566  
Ion Ratio Lower Upper  
59 100  
57 0.0 8.2 12.4#





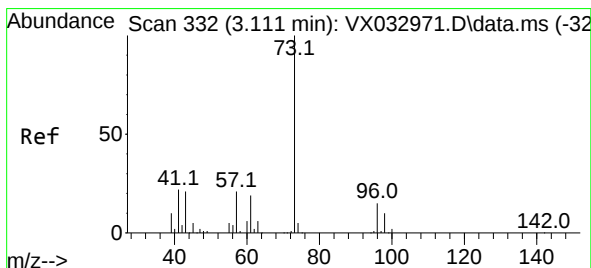
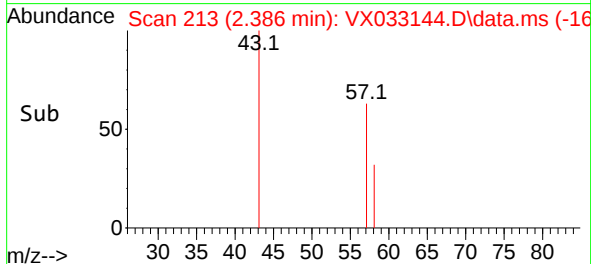
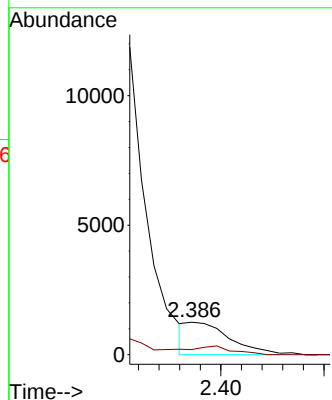
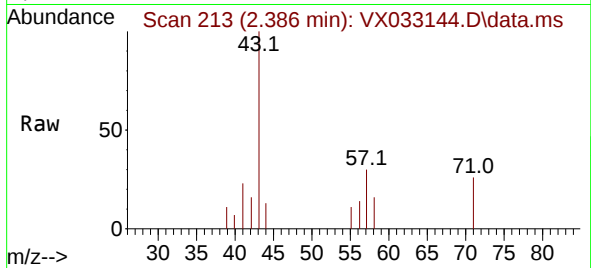
#16  
Acetone  
Concen: 2.919 ug/l m  
RT: 2.386 min Scan# 214  
Delta R.T. 0.006 min  
Lab File: VX033144.D  
Acq: 30 Nov 2022 19:56

Instrument :  
MSVOA\_X  
ClientSampleId :  
RW-1

Tgt Ion: 43 Resp: 1808  
Ion Ratio Lower Upper  
43 100  
58 15.7 23.8 35.8

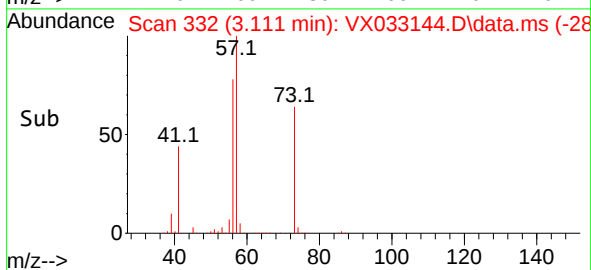
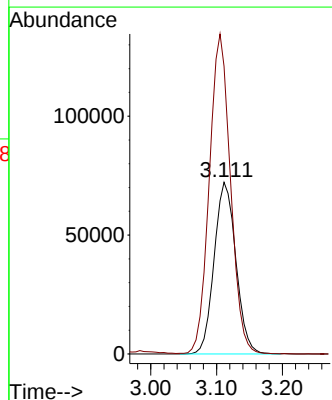
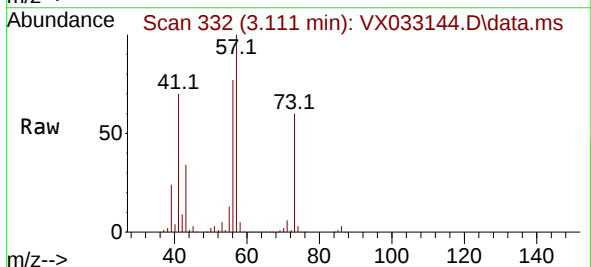
Manual Integrations  
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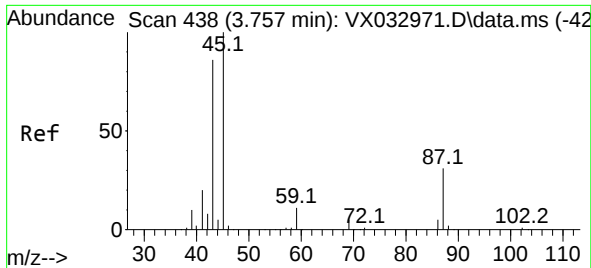
Reviewed By :John Carlone 12/01/2022  
Supervised By :Mahesh Dadoda 12/01/2022



#19  
Methyl tert-butyl Ether  
Concen: 40.333 ug/l  
RT: 3.111 min Scan# 332  
Delta R.T. 0.000 min  
Lab File: VX033144.D  
Acq: 30 Nov 2022 19:56

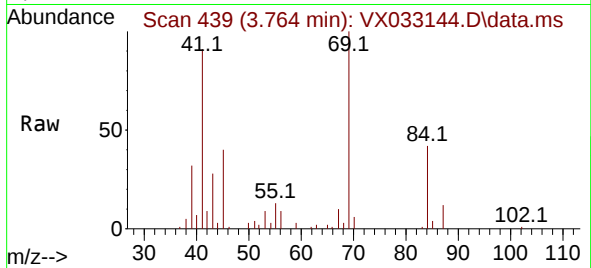
Tgt Ion: 73 Resp: 166264  
Ion Ratio Lower Upper  
73 100  
57 167.5 16.6 25.0





#22  
Diisopropyl ether  
Concen: 1.941 ug/l  
RT: 3.764 min Scan# 411  
Delta R.T. 0.001 min  
Lab File: VX033144.D  
Acq: 30 Nov 2022 19:56

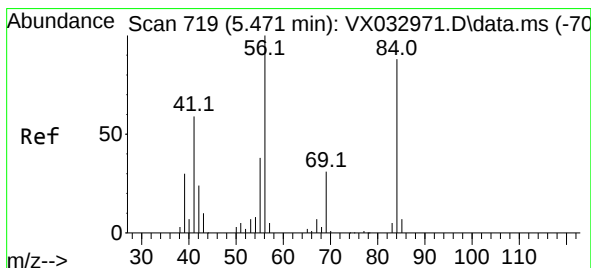
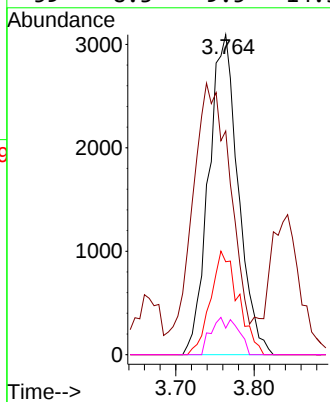
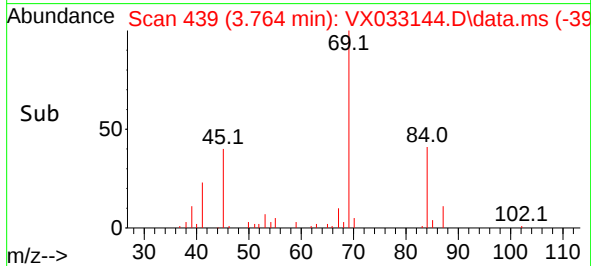
Instrument :  
MSVOA\_X  
ClientSampleId :  
RW-1



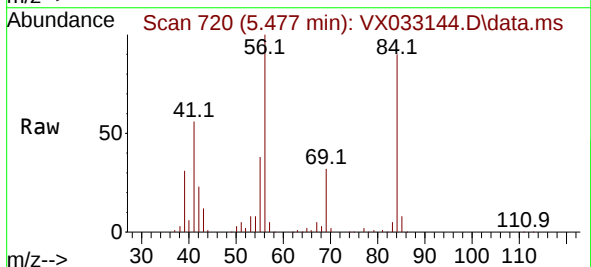
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 45      | 100   |       |       |
| 43      | 57.9  | 56.4  | 84.6  |
| 87      | 29.0  | 24.4  | 36.6  |
| 59      | 8.3   | 9.5   | 14.3  |

Manual Integrations  
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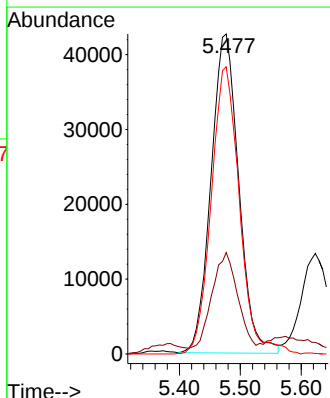
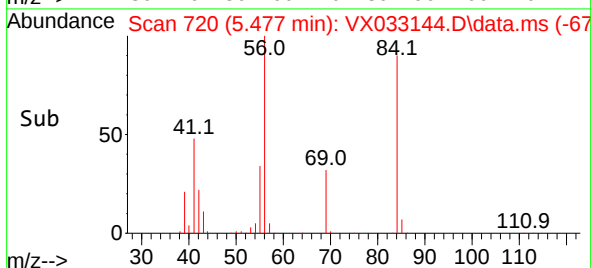
Reviewed By :John Carlone 12/01/2022  
Supervised By :Mahesh Dadoda 12/01/2022

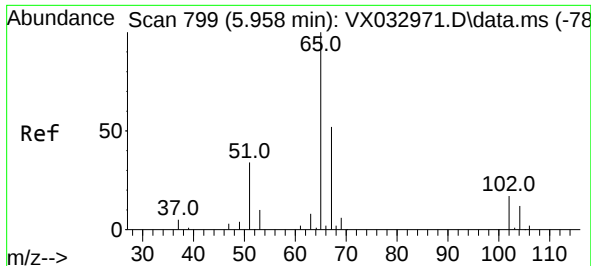


#31  
Cyclohexane  
Concen: 62.850 ug/l  
RT: 5.477 min Scan# 720  
Delta R.T. 0.007 min  
Lab File: VX033144.D  
Acq: 30 Nov 2022 19:56



| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 56      | 100   |       |       |
| 69      | 29.5  | 24.1  | 36.1  |
| 84      | 90.0  | 66.9  | 100.3 |





#33

1,2-Dichloroethane-d4

Concen: 53.464 ug/l

RT: 5.958 min Scan# 799

Delta R.T. 0.000 min

Lab File: VX033144.D

Acq: 30 Nov 2022 19:56

Instrument :

MSVOA\_X

ClientSampleId :

RW-1

Tgt Ion: 65 Resp: 70869

Ion Ratio Lower Upper

65 100

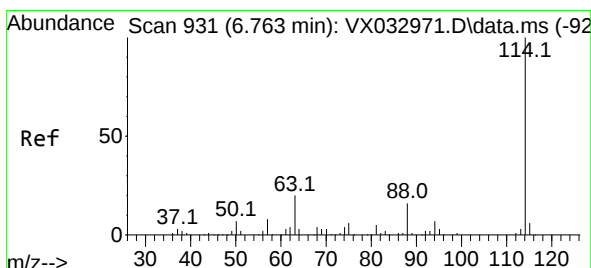
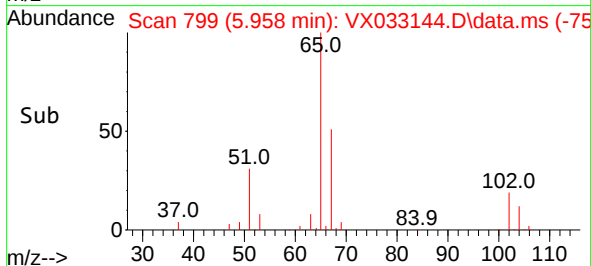
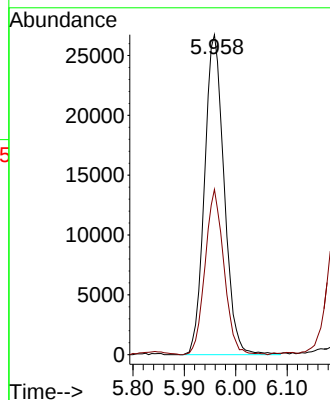
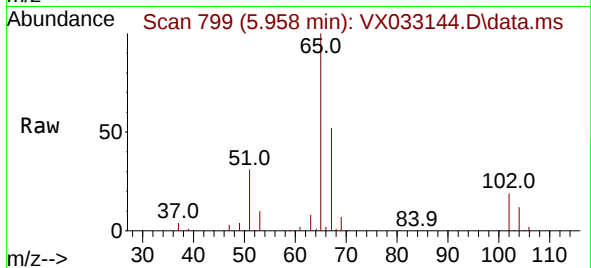
67 49.7 0.0 101.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/01/2022

Supervised By :Mahesh Dadoda 12/01/2022



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.763 min Scan# 931

Delta R.T. 0.000 min

Lab File: VX033144.D

Acq: 30 Nov 2022 19:56

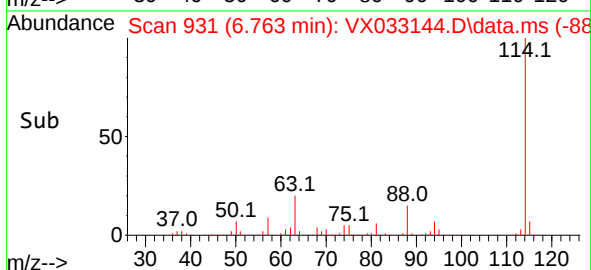
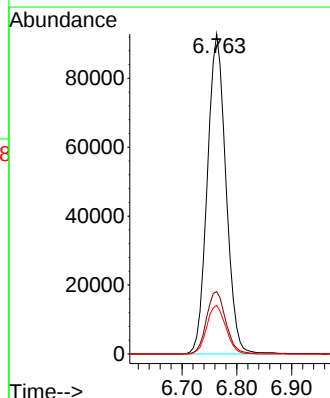
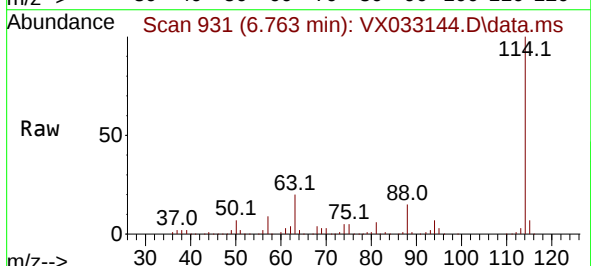
Tgt Ion:114 Resp: 217839

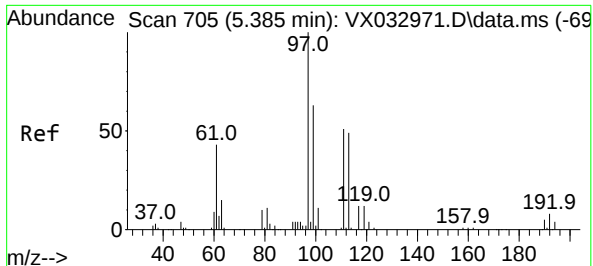
Ion Ratio Lower Upper

114 100

63 19.5 0.0 41.6

88 15.2 0.0 33.4





#35

Dibromofluoromethane

Concen: 45.556 ug/l

RT: 5.385 min Scan# 705

Delta R.T. 0.000 min

Lab File: VX033144.D

Acq: 30 Nov 2022 19:56

Instrument :

MSVOA\_X

ClientSampleId :

RW-1

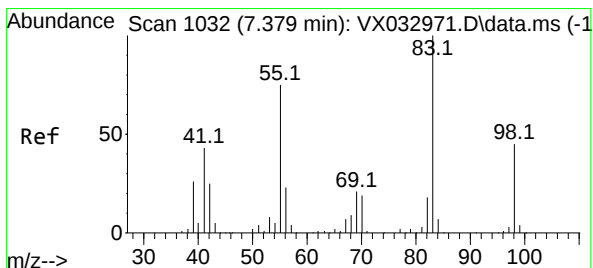
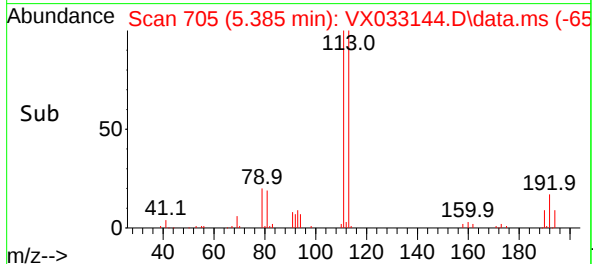
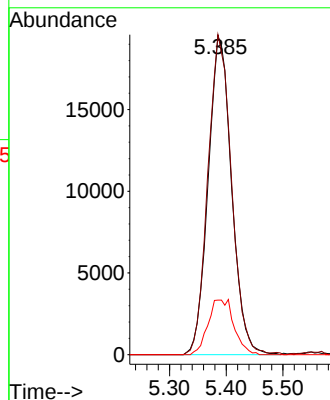
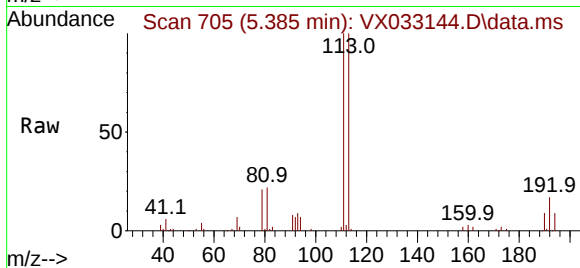
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|-----------|-------|-------|-------|
| Tgt Ion:  | 113   | Resp: | 5594  |
| Ion Ratio | Lower | Upper |       |
| 113       | 100   |       |       |
| 111       | 101.3 | 82.4  | 123.6 |
| 192       | 19.1  | 15.4  | 23.2  |

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/01/2022

Supervised By :Mahesh Dadoda 12/01/2022



#39

Methylcyclohexane

Concen: 28.134 ug/l

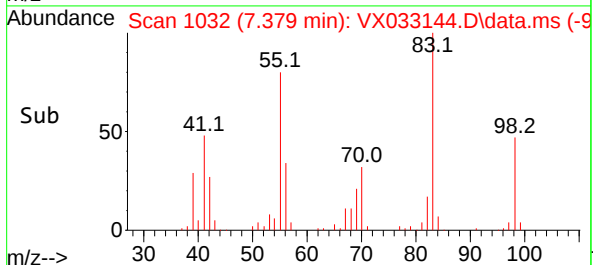
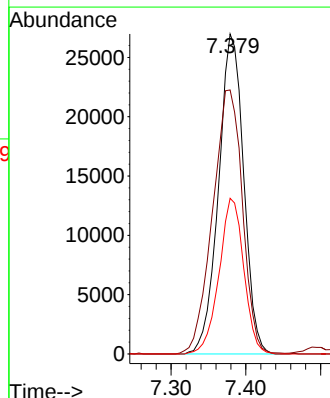
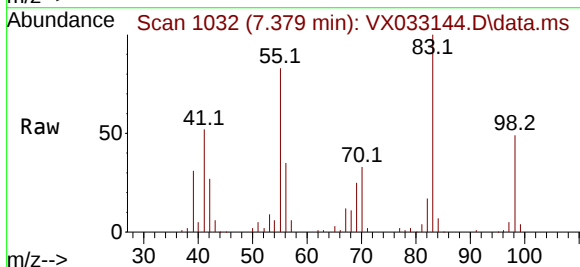
RT: 7.379 min Scan# 1032

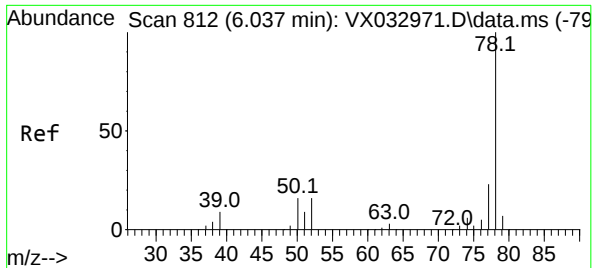
Delta R.T. -0.006 min

Lab File: VX033144.D

Acq: 30 Nov 2022 19:56

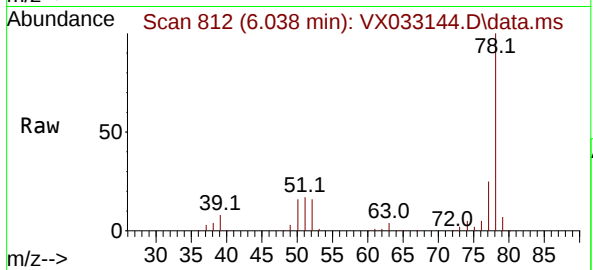
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| Tgt Ion:  | 83    | Resp: | 63034 |
| Ion Ratio | Lower | Upper |       |
| 83        | 100   |       |       |
| 55        | 82.2  | 58.4  | 87.6  |
| 98        | 48.7  | 37.2  | 55.8  |





#40  
Benzene  
Concen: 154.007 ug/l  
RT: 6.038 min Scan# 812  
Delta R.T. 0.001 min  
Lab File: VX033144.D  
Acq: 30 Nov 2022 19:56

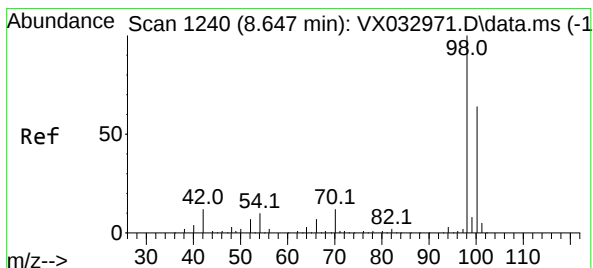
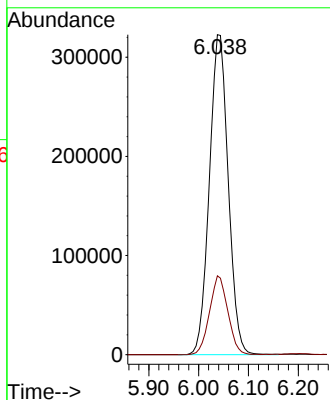
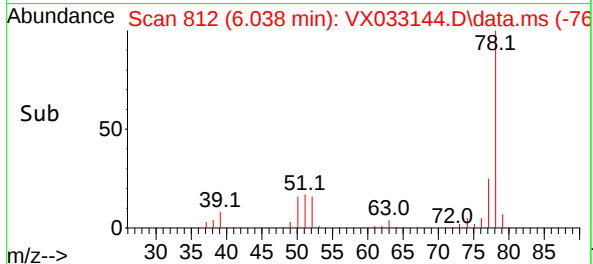
Instrument :  
MSVOA\_X  
ClientSampleId :  
RW-1



Tgt Ion: 78 Resp: 847911  
Ion Ratio Lower Upper  
78 100  
77 24.7 19.0 28.4

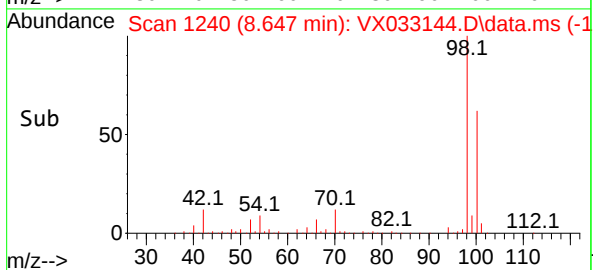
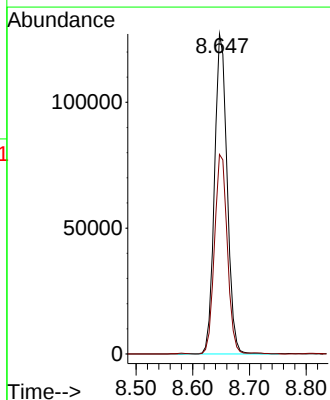
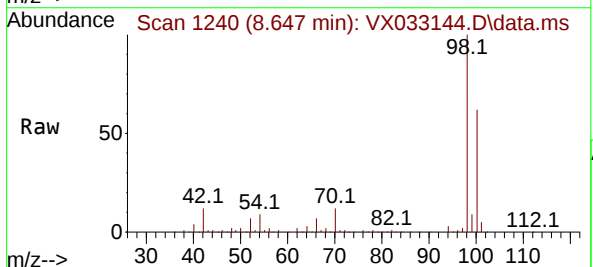
Manual Integrations  
APPROVED

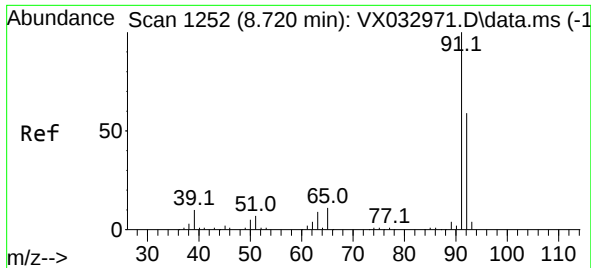
Reviewed By :John Carlone 12/01/2022  
Supervised By :Mahesh Dadoda 12/01/2022



#50  
Toluene-d8  
Concen: 53.295 ug/l  
RT: 8.647 min Scan# 1240  
Delta R.T. -0.006 min  
Lab File: VX033144.D  
Acq: 30 Nov 2022 19:56

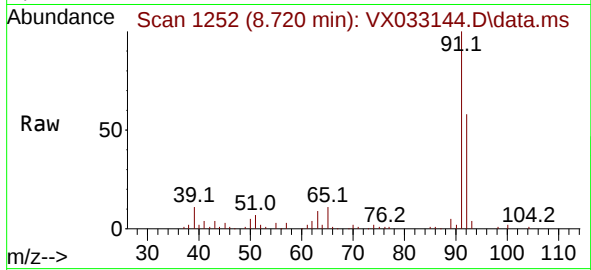
Tgt Ion: 98 Resp: 196407  
Ion Ratio Lower Upper  
98 100  
100 63.3 50.9 76.3





#52  
Toluene  
Concen: 5.647 ug/l  
RT: 8.720 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VX033144.D  
Acq: 30 Nov 2022 19:56

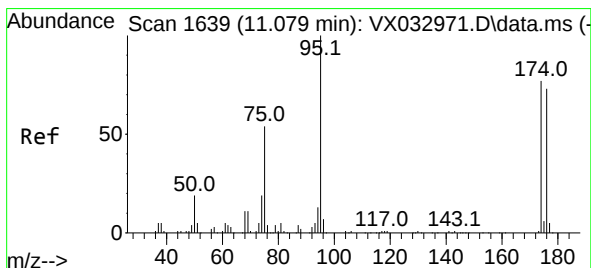
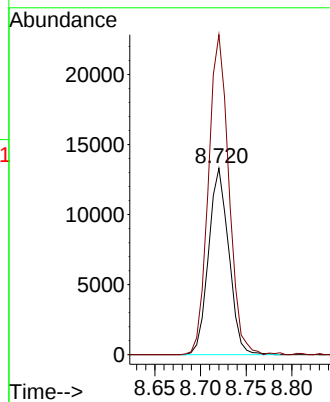
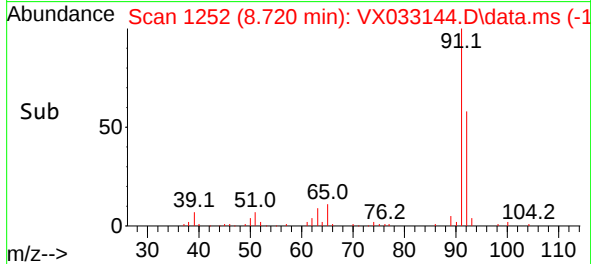
Instrument :  
MSVOA\_X  
ClientSampleId :  
RW-1



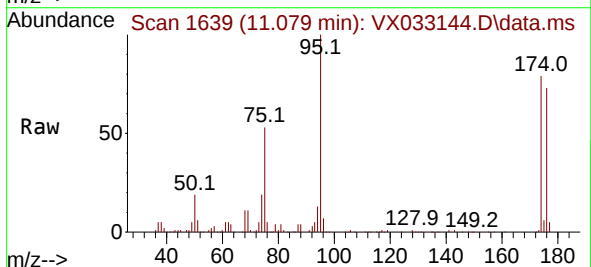
Tgt Ion: 92 Resp: 2045  
Ion Ratio Lower Upper  
92 100  
91 173.3 138.3 207.5

Manual Integrations  
APPROVED

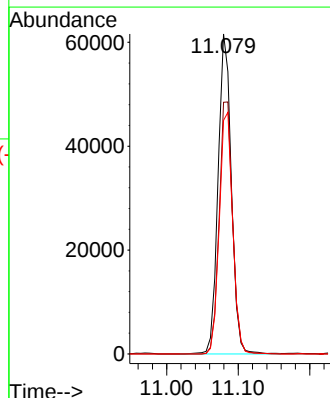
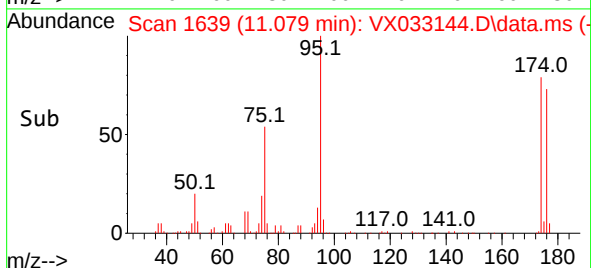
Reviewed By :John Carlone 12/01/2022  
Supervised By :Mahesh Dadoda 12/01/2022

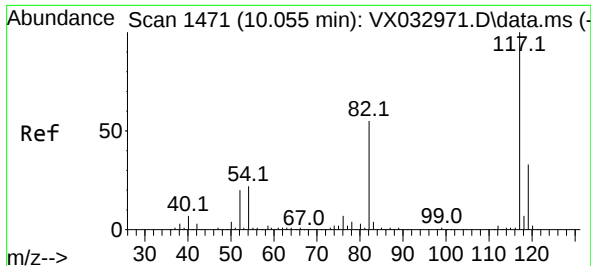


#62  
4-Bromofluorobenzene  
Concen: 49.058 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. 0.000 min  
Lab File: VX033144.D  
Acq: 30 Nov 2022 19:56



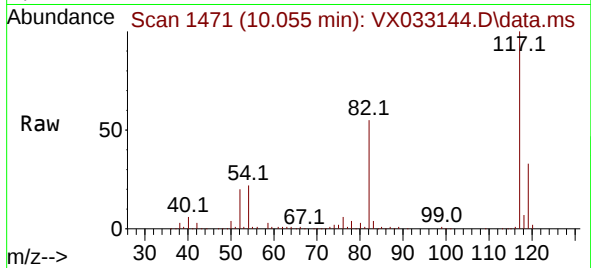
Tgt Ion: 95 Resp: 79142  
Ion Ratio Lower Upper  
95 100  
174 80.2 0.0 164.0  
176 76.4 0.0 154.4





#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.055 min Scan# 1471  
Delta R.T. 0.000 min  
Lab File: VX033144.D  
Acq: 30 Nov 2022 19:56

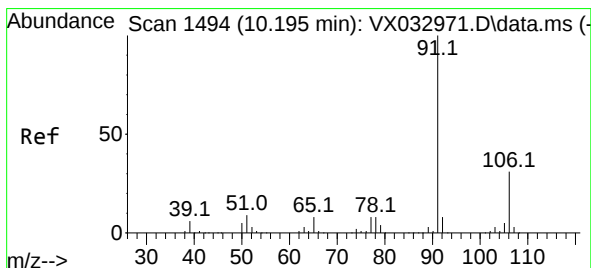
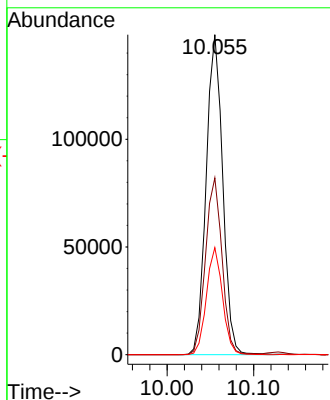
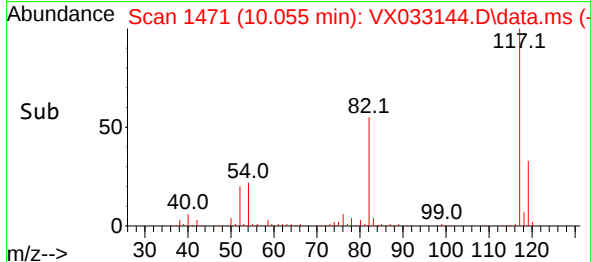
Instrument :  
MSVOA\_X  
ClientSampleId :  
RW-1



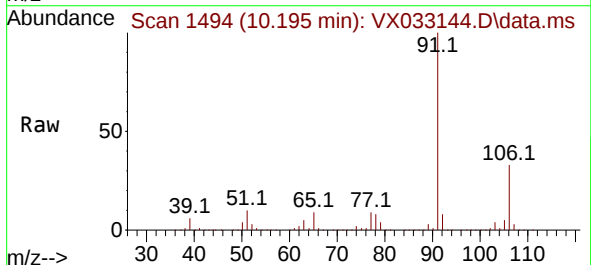
Tgt Ion:117 Resp: 197042  
Ion Ratio Lower Upper  
117 100  
82 55.3 44.3 66.5  
119 33.5 25.7 38.5

Manual Integrations  
APPROVED

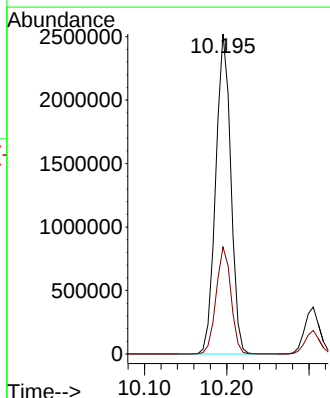
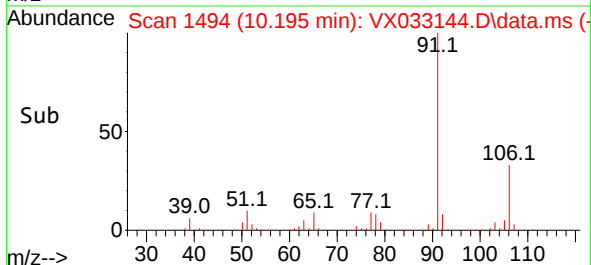
Reviewed By :John Carlone 12/01/2022  
Supervised By :Mahesh Dadoda 12/01/2022

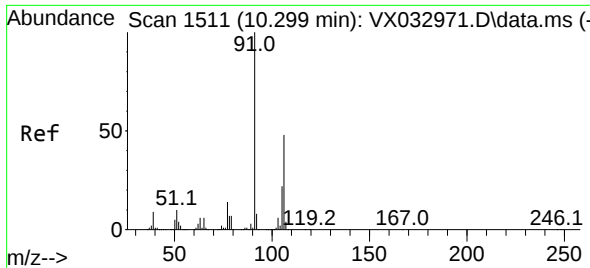


#67  
Ethyl Benzene  
Concen: 459.497 ug/l  
RT: 10.195 min Scan# 1494  
Delta R.T. 0.000 min  
Lab File: VX033144.D  
Acq: 30 Nov 2022 19:56



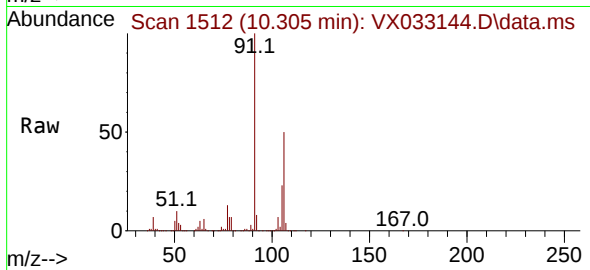
Tgt Ion: 91 Resp: 3202081  
Ion Ratio Lower Upper  
91 100  
106 33.4 25.0 37.6





#68  
m/p-Xylenes  
Concen: 83.841 ug/l  
RT: 10.305 min Scan# 1512  
Delta R.T. 0.000 min  
Lab File: VX033144.D  
Acq: 30 Nov 2022 19:56

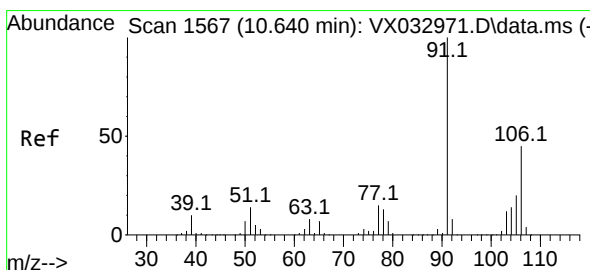
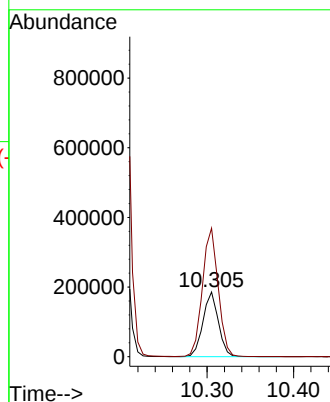
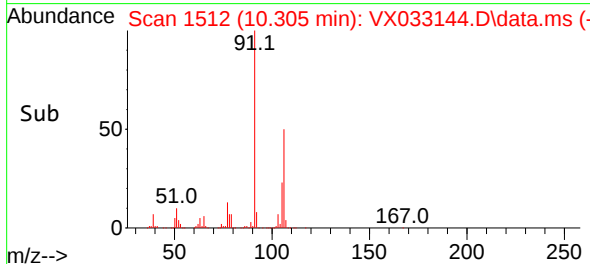
Instrument :  
MSVOA\_X  
ClientSampleId :  
RW-1



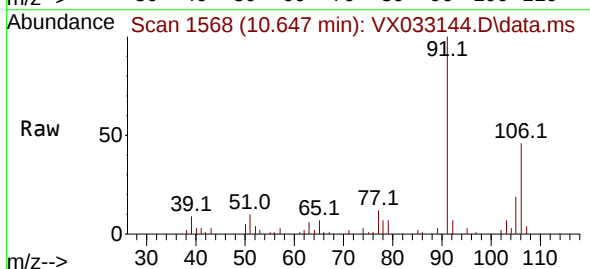
Tgt Ion:106 Resp: 228789  
Ion Ratio Lower Upper  
106 100  
91 203.7 164.5 246.7

Manual Integrations  
APPROVED

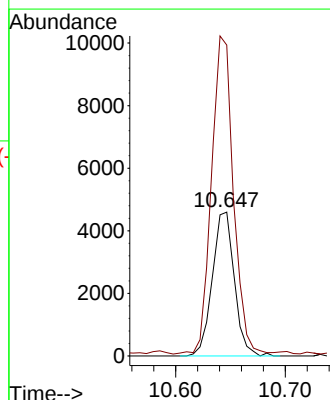
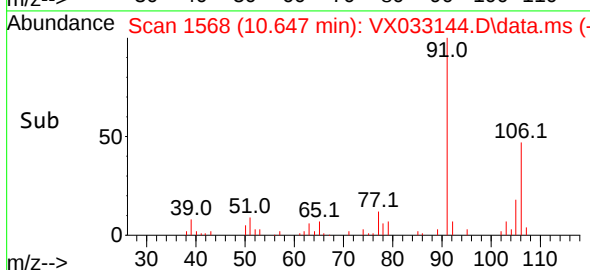
Reviewed By :John Carlone 12/01/2022  
Supervised By :Mahesh Dadoda 12/01/2022

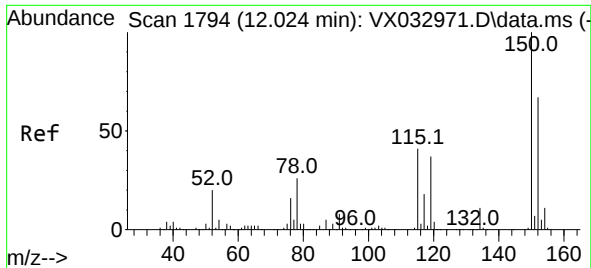


#69  
o-Xylene  
Concen: 2.432 ug/l  
RT: 10.647 min Scan# 1568  
Delta R.T. 0.007 min  
Lab File: VX033144.D  
Acq: 30 Nov 2022 19:56



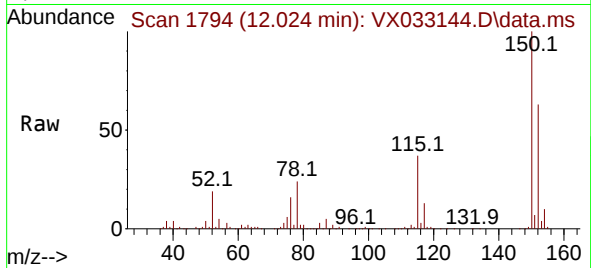
Tgt Ion:106 Resp: 6422  
Ion Ratio Lower Upper  
106 100  
91 219.2 109.2 327.6





#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.024 min Scan# 1794  
Delta R.T. 0.000 min  
Lab File: VX033144.D  
Acq: 30 Nov 2022 19:56

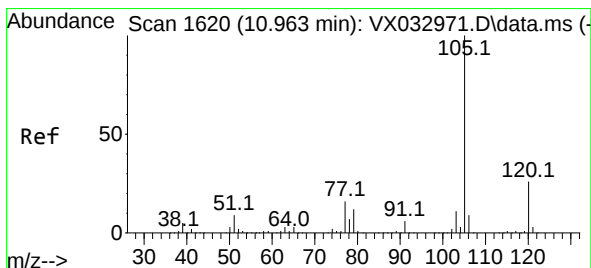
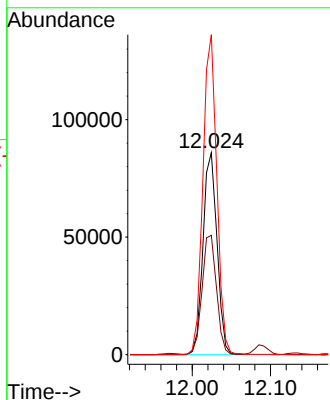
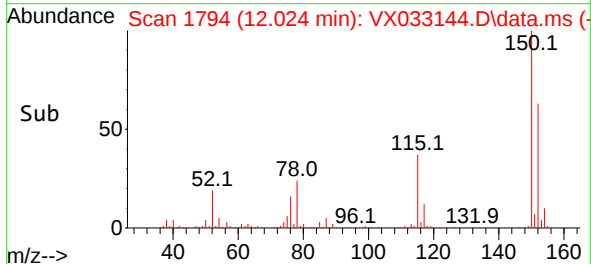
Instrument :  
MSVOA\_X  
ClientSampleId :  
RW-1



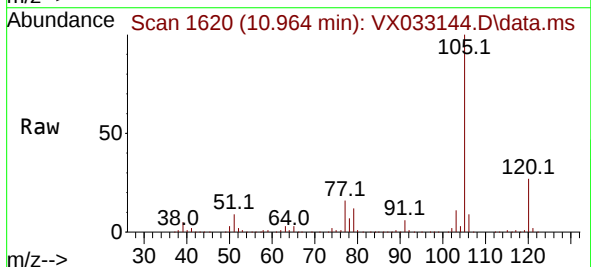
Tgt Ion:152 Resp: 106468  
Ion Ratio Lower Upper  
152 100  
115 60.8 44.0 132.0  
150 157.0 0.0 351.8

Manual Integrations  
APPROVED

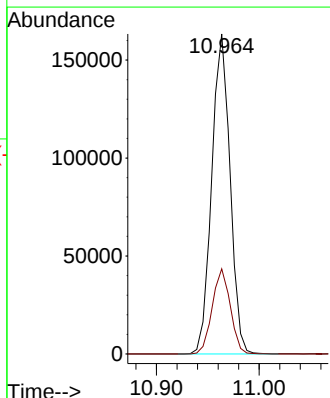
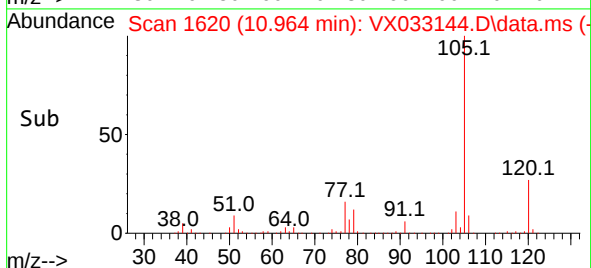
Reviewed By :John Carlone 12/01/2022  
Supervised By :Mahesh Dadoda 12/01/2022

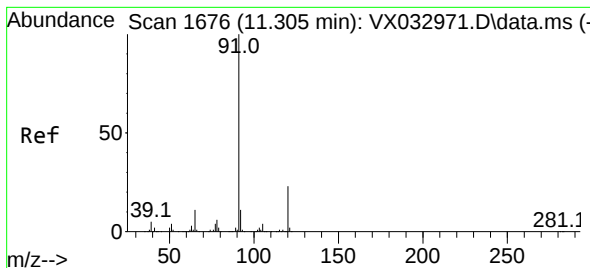


#73  
Isopropylbenzene  
Concen: 26.489 ug/l  
RT: 10.964 min Scan# 1620  
Delta R.T. 0.001 min  
Lab File: VX033144.D  
Acq: 30 Nov 2022 19:56



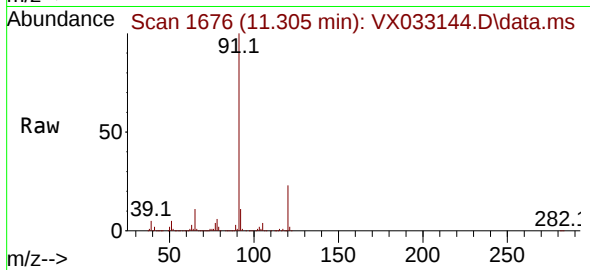
Tgt Ion:105 Resp: 201534  
Ion Ratio Lower Upper  
105 100  
120 26.2 13.1 39.3





#78  
n-propylbenzene  
Concen: 57.283 ug/l  
RT: 11.305 min Scan# 1676  
Delta R.T. -0.000 min  
Lab File: VX033144.D  
Acq: 30 Nov 2022 19:56

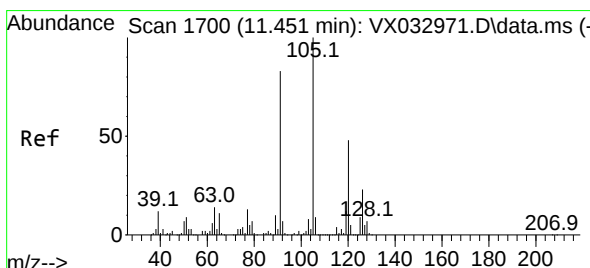
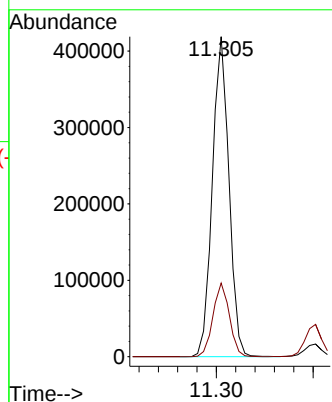
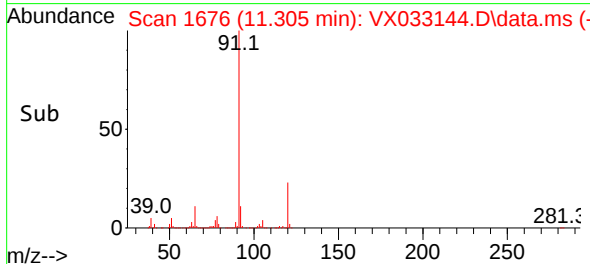
Instrument :  
MSVOA\_X  
ClientSampleId :  
RW-1



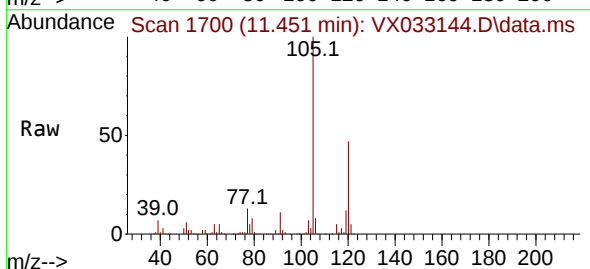
Tgt Ion: 91 Resp: 498283  
Ion Ratio Lower Upper  
91 100  
120 22.8 11.6 34.8

Manual Integrations  
APPROVED

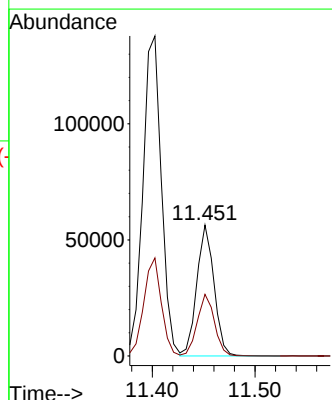
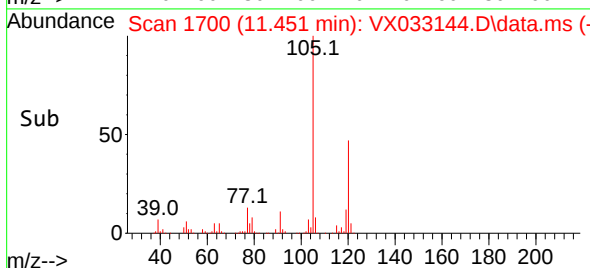
Reviewed By :John Carlone 12/01/2022  
Supervised By :Mahesh Dadoda 12/01/2022

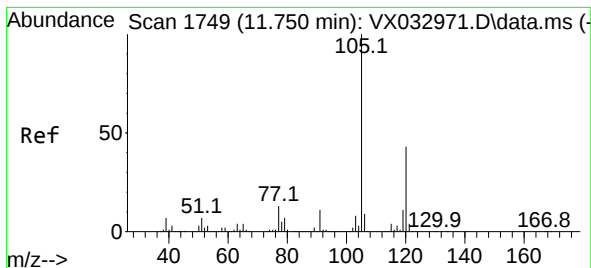


#80  
1,3,5-Trimethylbenzene  
Concen: 10.327 ug/l  
RT: 11.451 min Scan# 1700  
Delta R.T. 0.000 min  
Lab File: VX033144.D  
Acq: 30 Nov 2022 19:56



Tgt Ion:105 Resp: 66005  
Ion Ratio Lower Upper  
105 100  
120 47.0 23.6 71.0





#84

1,2,4-Trimethylbenzene

Concen: 48.162 ug/l

RT: 11.750 min Scan# 1749

Delta R.T. 0.000 min

Lab File: VX033144.D

Acq: 30 Nov 2022 19:56

Instrument :

MSVOA\_X

ClientSampleId :

RW-1

Tgt Ion:105 Resp: 306929

Ion Ratio Lower Upper

105 100

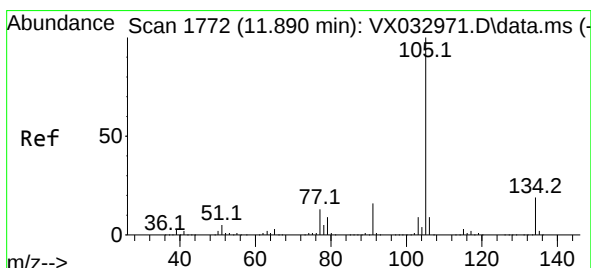
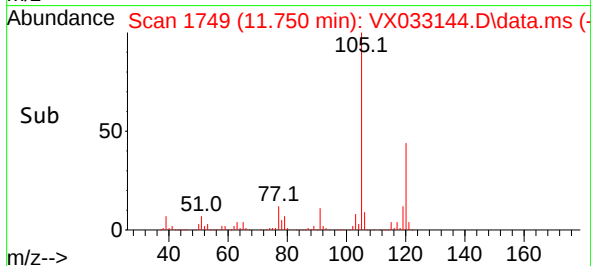
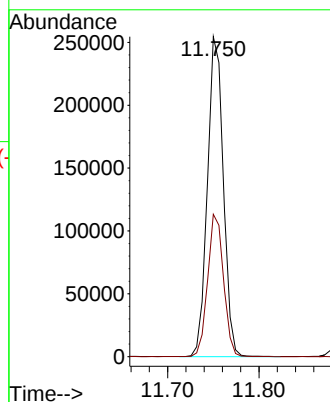
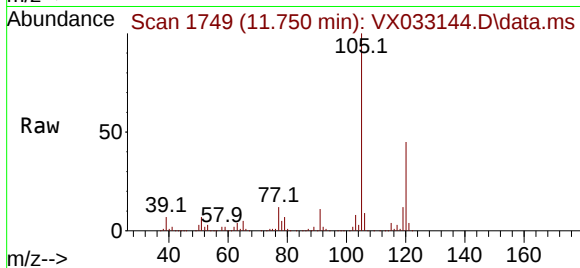
120 44.4 21.9 65.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/01/2022

Supervised By :Mahesh Dadoda 12/01/2022



#85

sec-Butylbenzene

Concen: 2.939 ug/l

RT: 11.890 min Scan# 1772

Delta R.T. 0.000 min

Lab File: VX033144.D

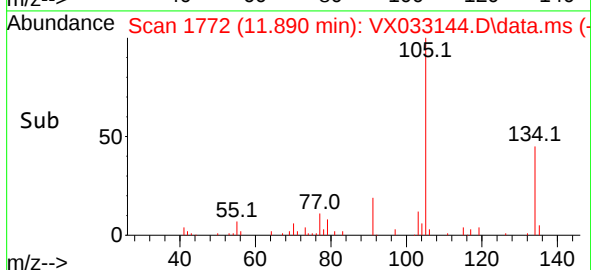
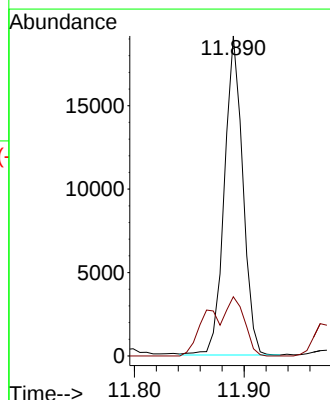
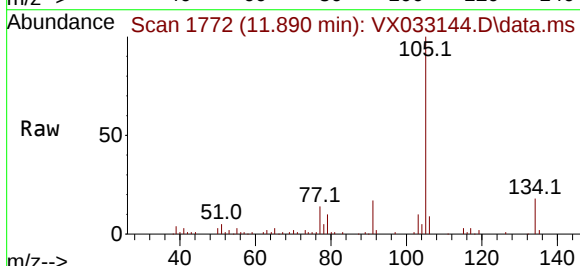
Acq: 30 Nov 2022 19:56

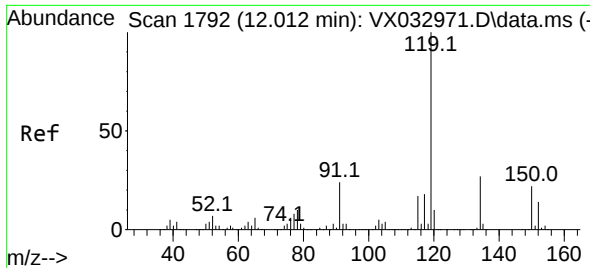
Tgt Ion:105 Resp: 22368

Ion Ratio Lower Upper

105 100

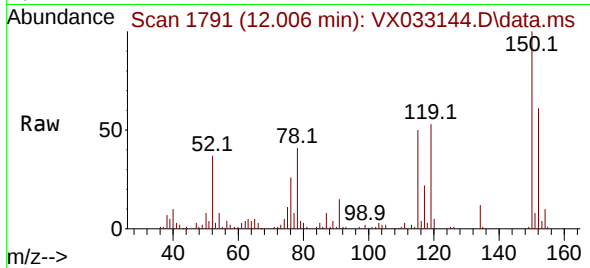
134 18.8 9.9 29.7





#86  
p-Isopropyltoluene  
Concen: 1.487 ug/l  
RT: 12.006 min Scan# 119  
Delta R.T. -0.006 min  
Lab File: VX033144.D  
Acq: 30 Nov 2022 19:56

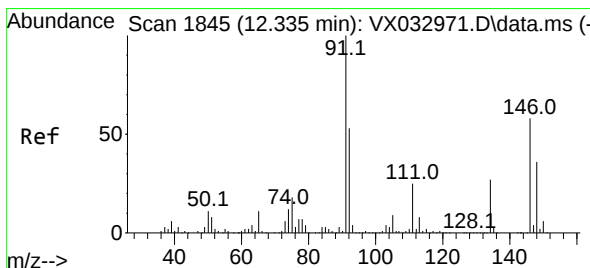
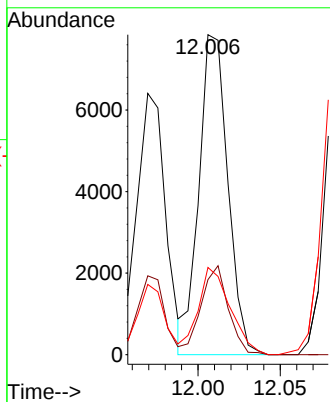
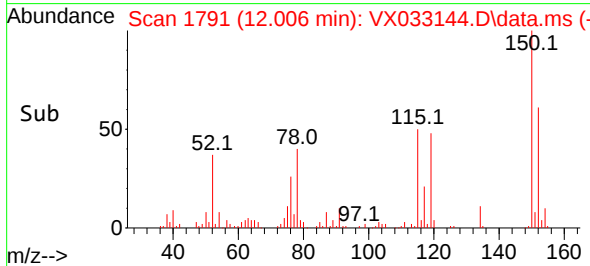
Instrument :  
MSVOA\_X  
ClientSampleId :  
RW-1



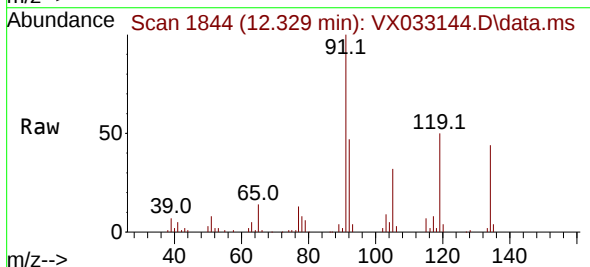
Tgt Ion: 119 Resp: 958  
Ion Ratio Lower Upper  
119 100  
134 26.4 12.9 38.7  
91 0.0 12.5 37.5

Manual Integrations  
APPROVED

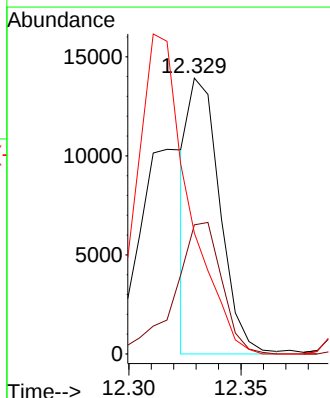
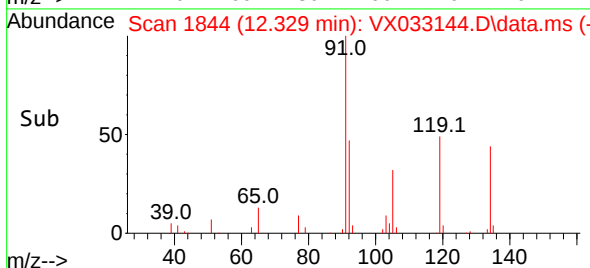
Reviewed By :John Carlone 12/01/2022  
Supervised By :Mahesh Dadoda 12/01/2022

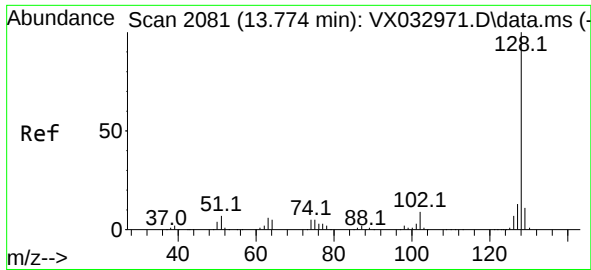


#89  
n-Butylbenzene  
Concen: 2.424 ug/l m  
RT: 12.329 min Scan# 1844  
Delta R.T. -0.006 min  
Lab File: VX033144.D  
Acq: 30 Nov 2022 19:56



Tgt Ion: 91 Resp: 13468  
Ion Ratio Lower Upper  
91 100  
92 72.5 26.2 78.6  
134 0.0 12.9 38.6#





#95

Naphthalene

Concen: 39.683 ug/l

RT: 13.774 min Scan# 2081

Delta R.T. -0.006 min

Lab File: VX033144.D

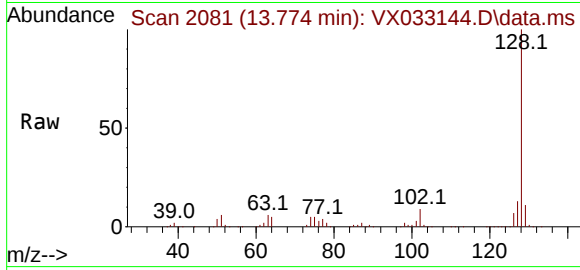
Acq: 30 Nov 2022 19:56

Instrument :

MSVOA\_X

ClientSampleId :

RW-1



Tgt Ion:128 Resp: 270163

Ion Ratio Lower Upper

128 100

127 12.7 10.2 15.4

129 10.7 8.9 13.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/01/2022

Supervised By :Mahesh Dadoda 12/01/2022

