

Data Path : W:\HPCHEM1\MSVOA X\DATA\VX032918\  
 Data File : VX000544.D  
 Acq On : 30 Mar 2018 05:35  
 Operator : JC/MD  
 Sample : J2094-01  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 42 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 22193-4-5

Manual Integrations  
 APPROVED

sam  
 3/30/2018 4:10:45 PM

Quant Time: Mar 30 08:33:28 2018  
 Quant Method : W:\HPCHEM1\MSVOA\_X\METHOD\82X032018W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Mar 21 04:52:42 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.68  | 168  | 106009   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.87  | 114  | 189468   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.12 | 117  | 192329   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.09 | 152  | 107800   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 6.08  | 65   | 78369    | 56.63 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 113.26% |          |
| 35) Dibromofluoromethane    | 5.51  | 113  | 59640    | 49.96 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 99.92%  |          |
| 50) Toluene-d8              | 8.73  | 98   | 243014   | 49.15 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 98.30%  |          |
| 62) 4-Bromofluorobenzene    | 11.15 | 95   | 87599    | 42.92 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 85.84%  |          |

| Target Compounds           | R.T.  | QIon | Response | Conc  | Units | Qvalue |
|----------------------------|-------|------|----------|-------|-------|--------|
| 16) Acetone                | 2.45  | 43   | 20725    | 18.00 | ug/l  | 98     |
| 20) Methylene Chloride     | 2.86  | 84   | 2726     | 2.05  | ug/l  | 90     |
| 52) Toluene                | 8.79  | 92   | 38686    | 10.74 | ug/l  | 98     |
| 67) Ethyl Benzene          | 10.26 | 91   | 34586    | 4.77  | ug/l  | 96     |
| 68) m/p-Xylenes            | 10.37 | 106  | 58733    | 20.57 | ug/l  | 100    |
| 69) o-Xylene               | 10.71 | 106  | 40051    | 14.49 | ug/l  | 99     |
| 78) n-propylbenzene        | 11.37 | 91   | 14208    | 1.67  | ug/l  | 96     |
| 80) 1,3,5-Trimethylbenzene | 11.51 | 105  | 25494    | 4.25  | ug/l  | 97     |
| 84) 1,2,4-Trimethylbenzene | 11.82 | 105  | 91158    | 14.48 | ug/l  | 97     |
| 95) Naphthalene            | 13.84 | 128  | 33153    | 3.76  | ug/l  | 99     |

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

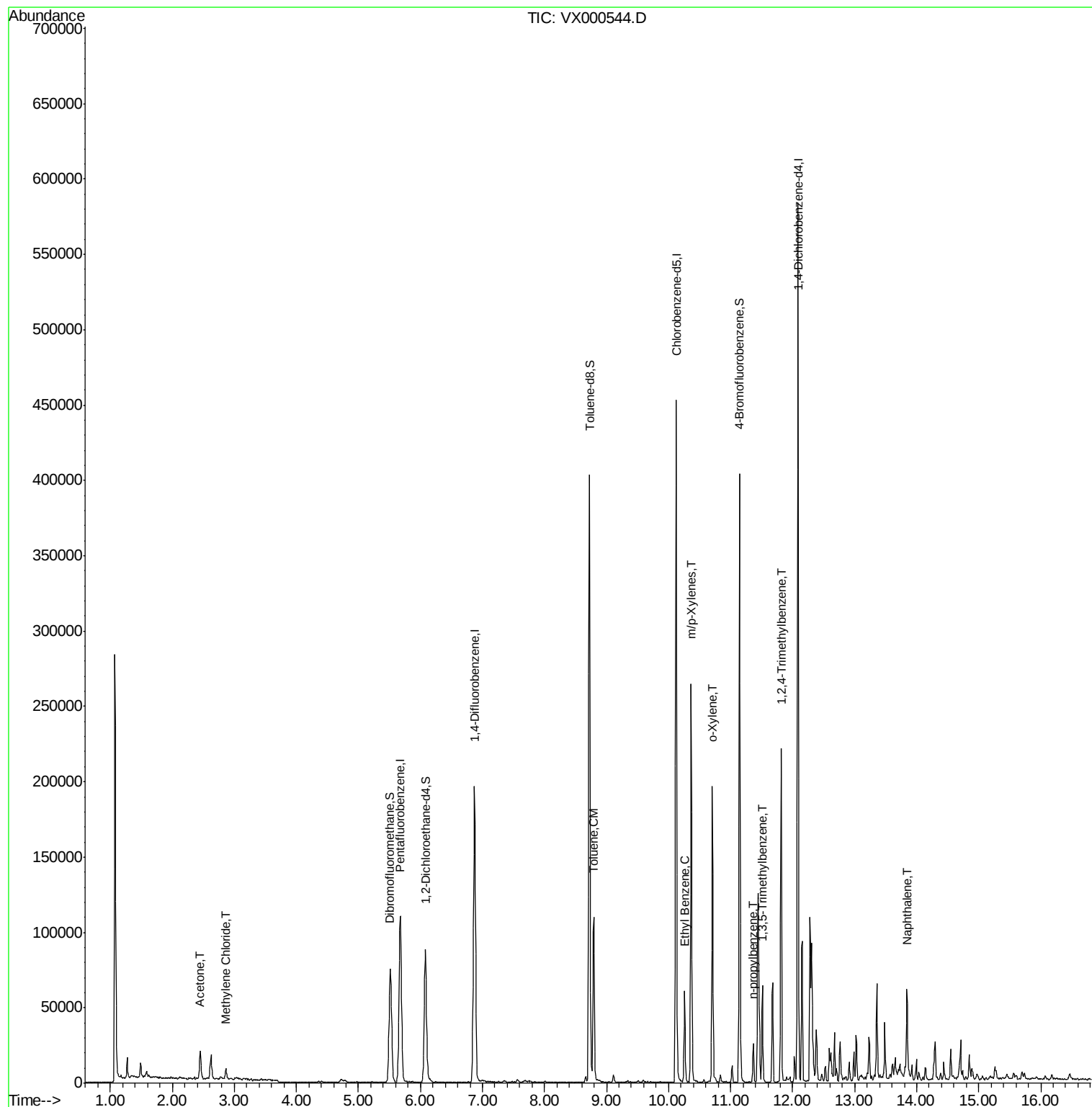
Data Path : W:\HPCHEM1\MSVOA X\DATA\VX032918\  
Data File : VX000544.D  
Acq On : 30 Mar 2018 05:35  
Operator : JC/MD  
Sample : J2094-01  
Misc : 5.0mL/MSVOA X/WATER  
ALS Vial : 42 Sample Multiplier: 1

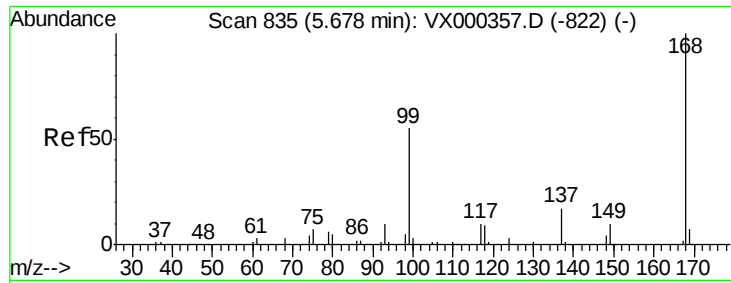
Instrument :  
MSVOA\_X  
ClientSampleId :  
22193-4-5

Manual Integrations  
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3/30/2018 4:10:45 PM

Quant Time: Mar 30 08:33:28 2018  
Quant Method : W:\HPCHEM1\MSVOA\_X\METHOD\82X032018W.M  
Quant Title : SW846 8260  
QLast Update : Wed Mar 21 04:52:42 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.68 min Scan# 835

Delta R.T. -0.00 min

Lab File: VX000544.D

Acq: 30 Mar 2018 05:35

Instrument :

MSVOA\_X

ClientSampled :

22193-4-5

Tot Ion:168 Resp: 106009

Ion Ratio Lower Upper

168 100

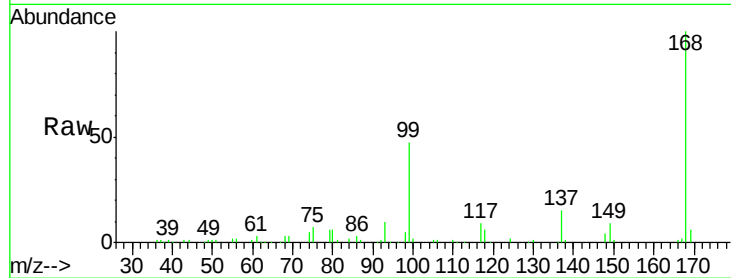
99 46.7 45.8 68.6

Manual Integrations

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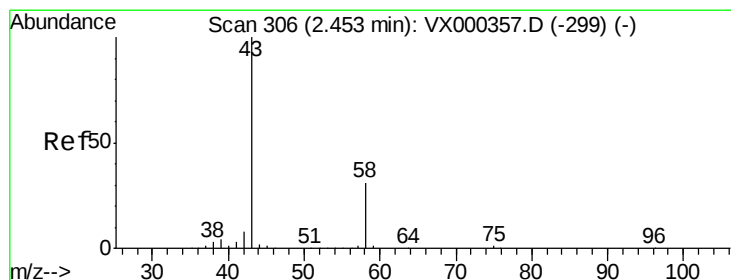
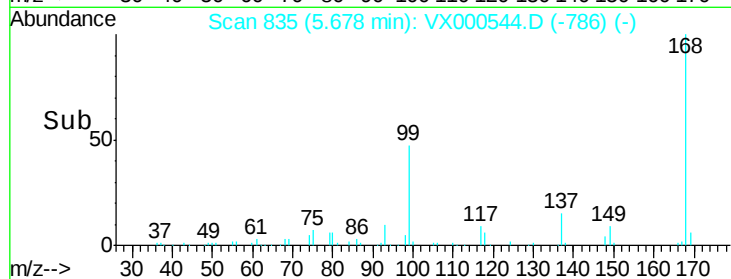
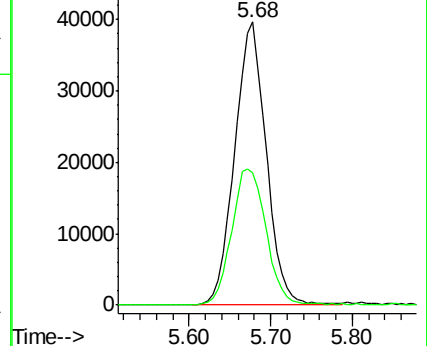
sam

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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#16

Acetone

Concen: 18.00 ug/l

RT: 2.45 min Scan# 305

Delta R.T. -0.01 min

Lab File: VX000544.D

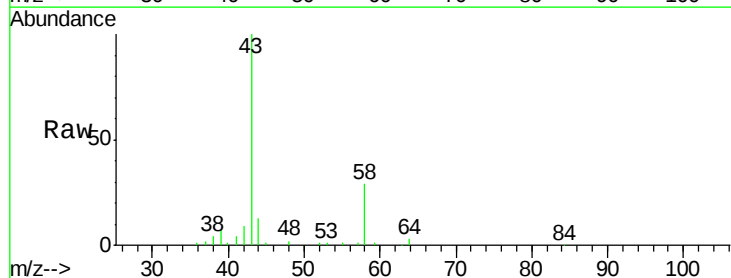
Acq: 30 Mar 2018 05:35

Tgt Ion: 43 Resp: 20725

Ion Ratio Lower Upper

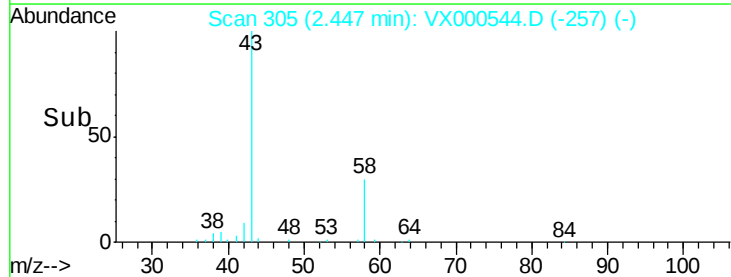
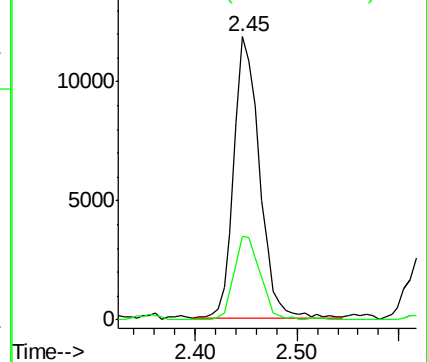
43 100

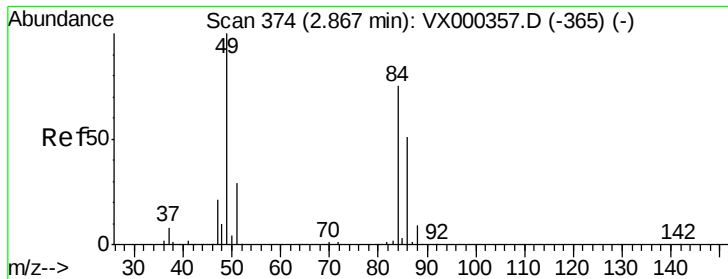
58 29.6 24.7 37.1



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





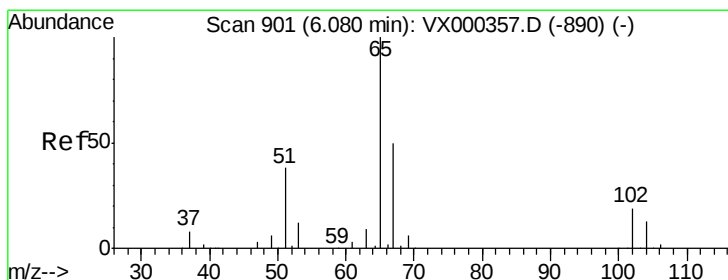
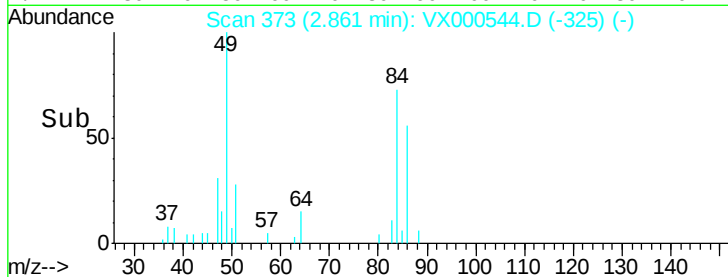
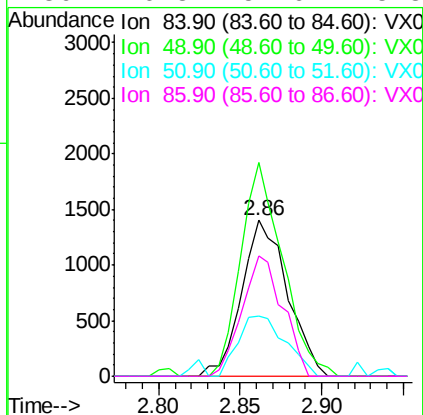
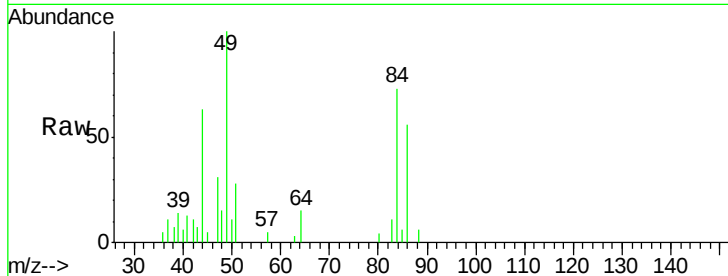
#20  
Methvlene Chloride  
Concen: 2.05 ug/l  
RT: 2.86 min Scan# 373  
Delta R.T. -0.01 min  
Lab File: VX000544.D  
Acq: 30 Mar 2018 05:35

Instrument :  
MSVOA\_X  
ClientSampleId :  
22193-4-5

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 84      | 100   |       |       |
| 49      | 136.9 | 100.6 | 151.0 |
| 51      | 38.3  | 31.6  | 47.4  |
| 86      | 76.8  | 52.6  | 78.8  |

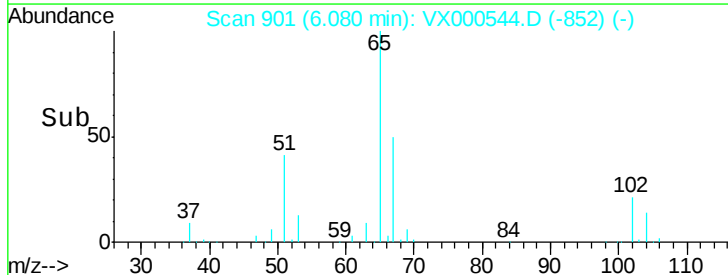
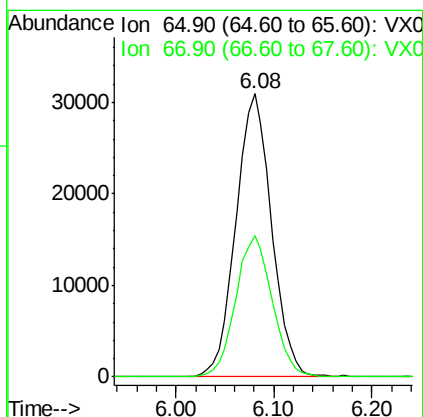
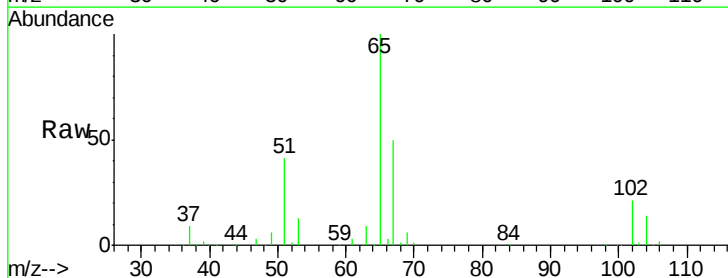
Manual Integrations  
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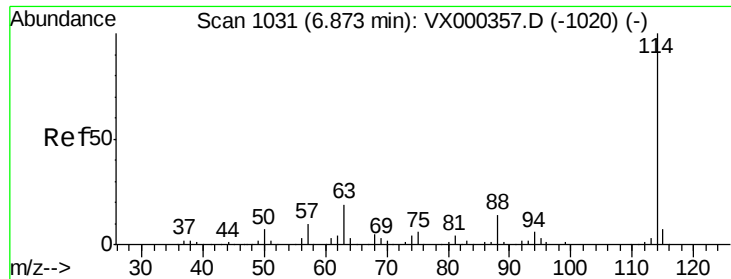
sam  
3/30/2018 4:10:45 PM



#33  
1,2-Dichloroethane-d4  
Concen: 56.63 ug/l  
RT: 6.08 min Scan# 901  
Delta R.T. 0.00 min  
Lab File: VX000544.D  
Acq: 30 Mar 2018 05:35

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 65      | 100   |       |       |
| 67      | 50.9  | 0.0   | 103.2 |





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 6.87 min Scan# 1031

Delta R.T. -0.00 min

Lab File: VX000544.D

Acq: 30 Mar 2018 05:35

Instrument :

MSVOA\_X

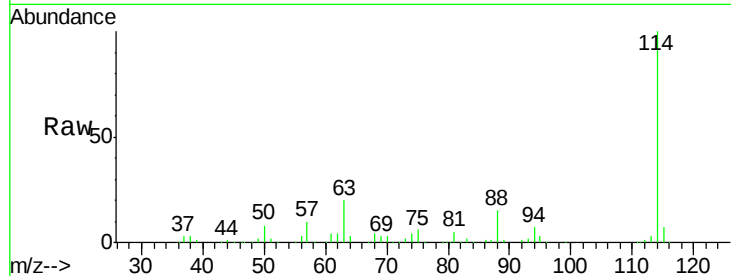
ClientSampled :

22193-4-5

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 114   | Resp: | 189468 |
| Ion Ratio | Lower | Upper |        |
| 114       | 100   |       |        |
| 63        | 20.2  | 0.0   | 38.4   |
| 88        | 14.6  | 0.0   | 27.0   |

Manual Integrations  
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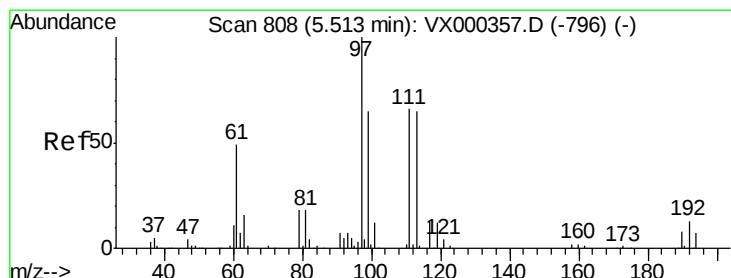
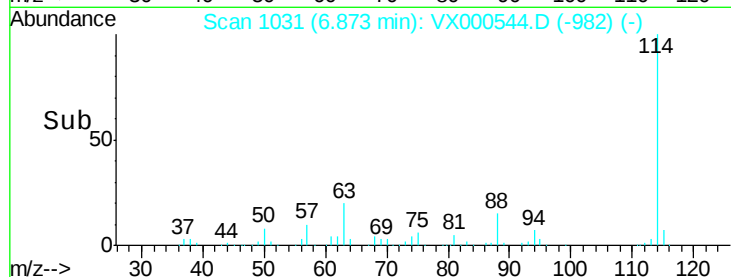
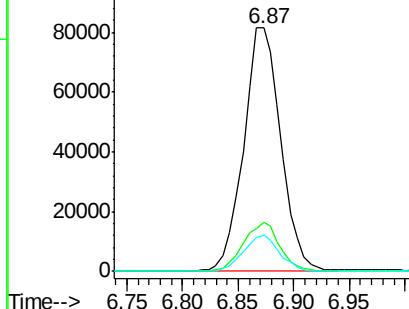
sam  
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Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0



#35

Dibromofluoromethane

Concen: 49.96 ug/l

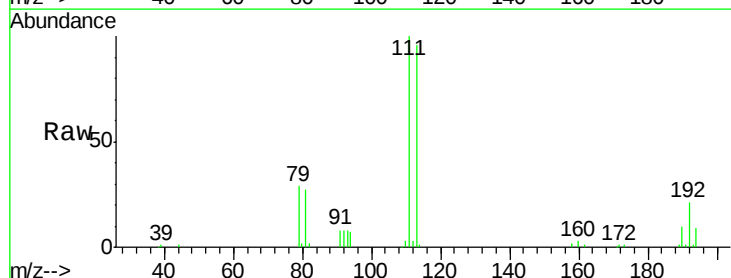
RT: 5.51 min Scan# 808

Delta R.T. -0.00 min

Lab File: VX000544.D

Acq: 30 Mar 2018 05:35

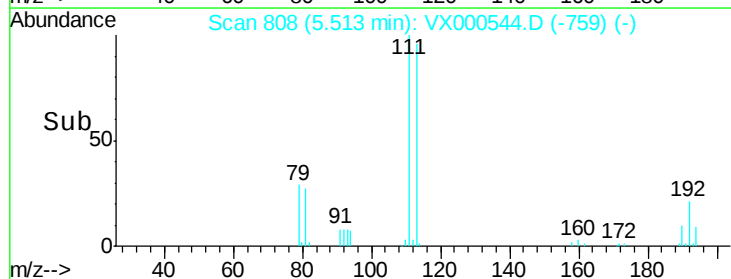
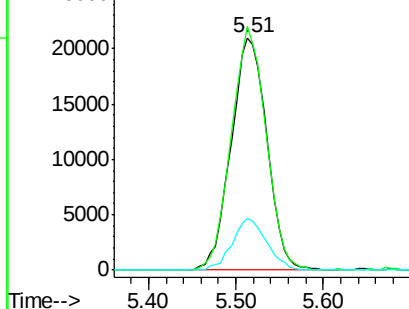
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 113   | Resp: | 59640 |
| Ion Ratio | Lower | Upper |       |
| 113       | 100   |       |       |
| 111       | 101.7 | 82.4  | 123.6 |
| 192       | 21.4  | 15.8  | 23.6  |

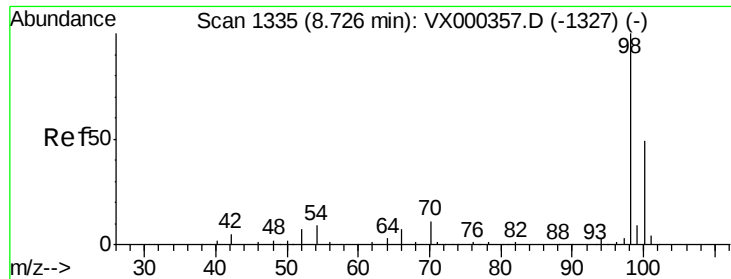


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





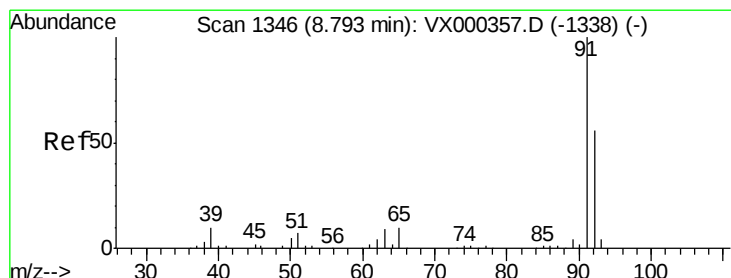
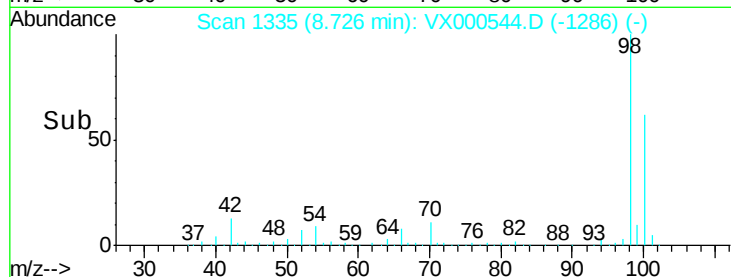
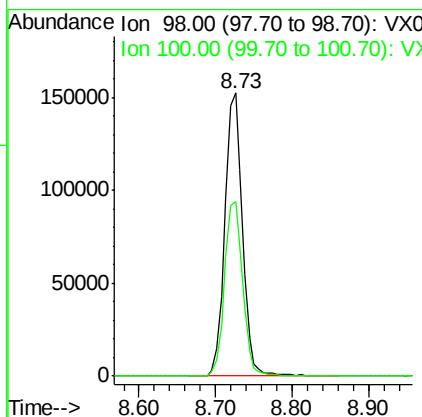
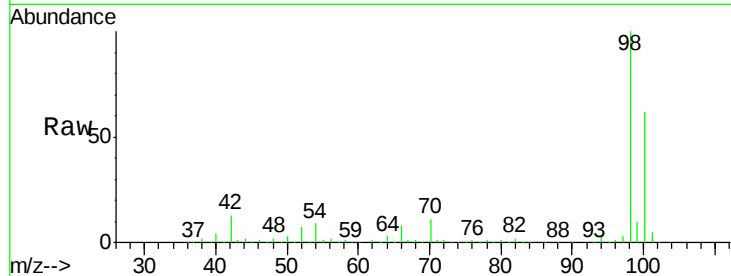
#50  
Toluene-d8  
Concen: 49.15 ug/l  
RT: 8.73 min Scan# 1335  
Delta R.T. -0.00 min  
Lab File: VX000544.D  
Acq: 30 Mar 2018 05:35

Instrument :  
MSVOA\_X  
ClientSampleId :  
22193-4-5

Tot Ion: 98 Resp: 243014  
Ion Ratio Lower Upper  
98 100  
100 64.0 51.2 76.8

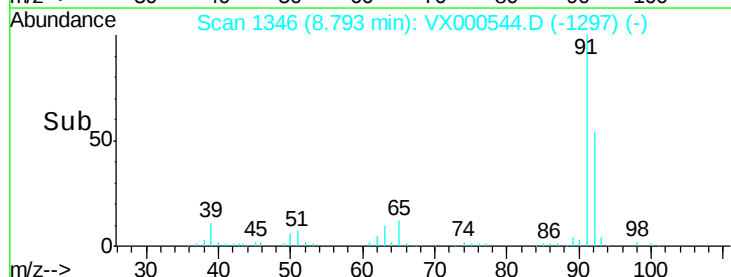
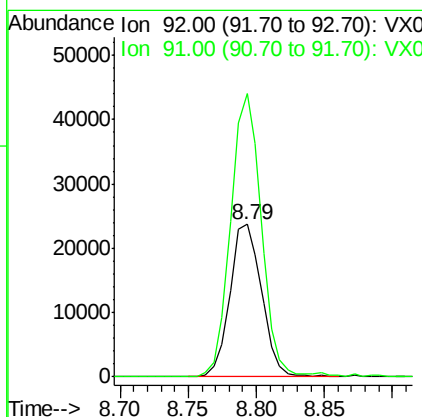
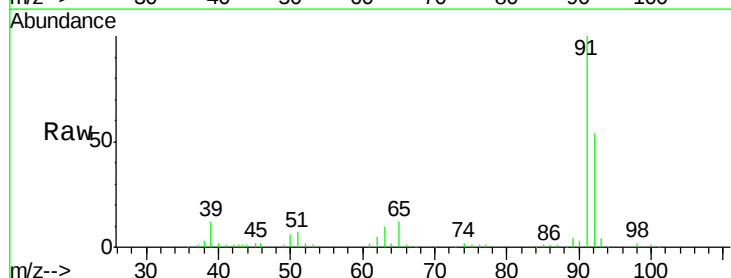
Manual Integrations  
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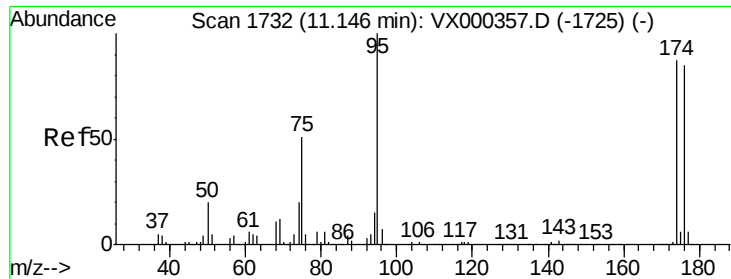
sam  
3/30/2018 4:10:45 PM



#52  
Toluene  
Concen: 10.74 ug/l  
RT: 8.79 min Scan# 1346  
Delta R.T. -0.00 min  
Lab File: VX000544.D  
Acq: 30 Mar 2018 05:35

Tgt Ion: 92 Resp: 38686  
Ion Ratio Lower Upper  
92 100  
91 177.7 140.2 210.2





#62

4-Bromofluorobenzene

Concen: 42.92 ug/l

RT: 11.15 min Scan# 1732

Delta R.T. 0.00 min

Lab File: VX000544.D

Acq: 30 Mar 2018 05:35

Instrument :

MSVOA\_X

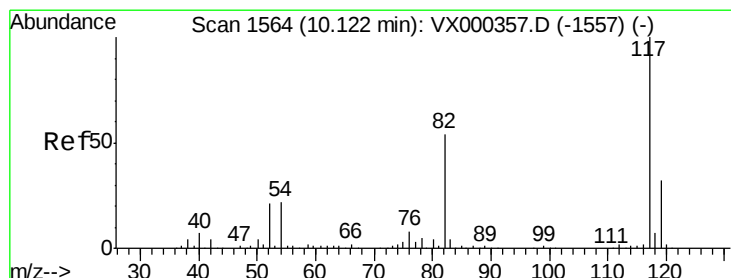
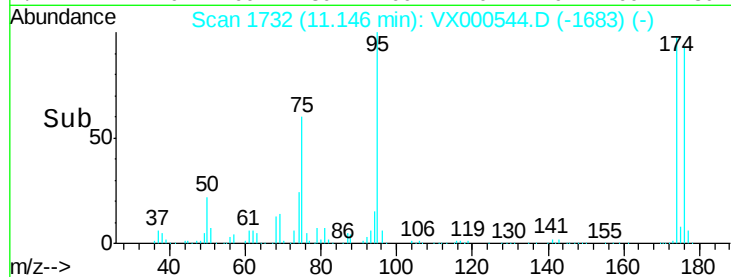
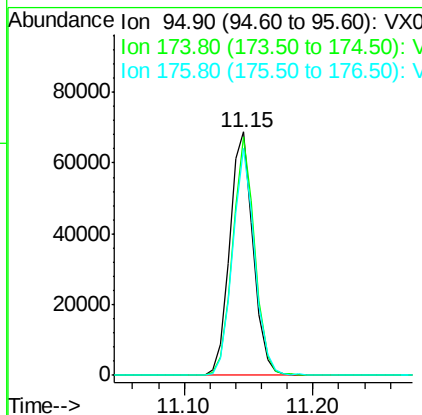
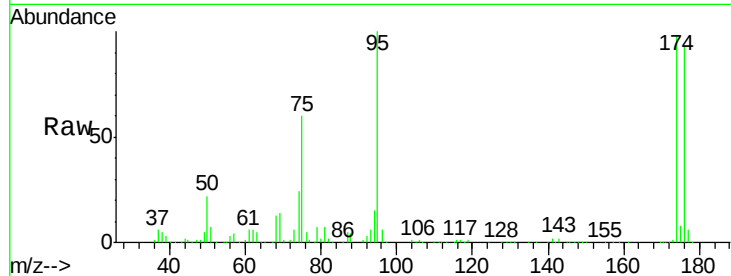
ClientSampleId :

22193-4-5

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 95    | Resp: | 87599 |
| Ion      | Ratio | Lower | Upper |
| 95       | 100   |       |       |
| 174      | 92.6  | 0.0   | 173.6 |
| 176      | 88.5  | 0.0   | 164.6 |

Manual Integrations  
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#63

Chlorobenzene-d5

Concen: 50.00 ug/l

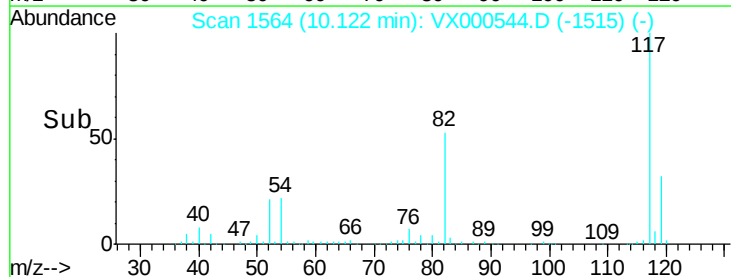
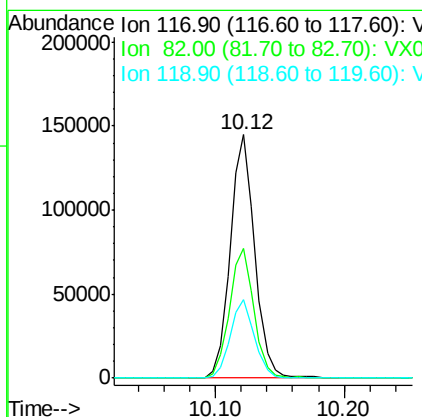
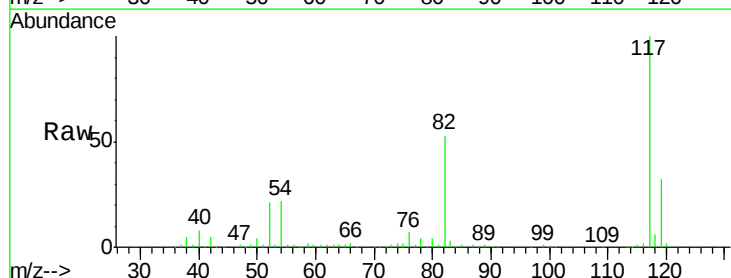
RT: 10.12 min Scan# 1564

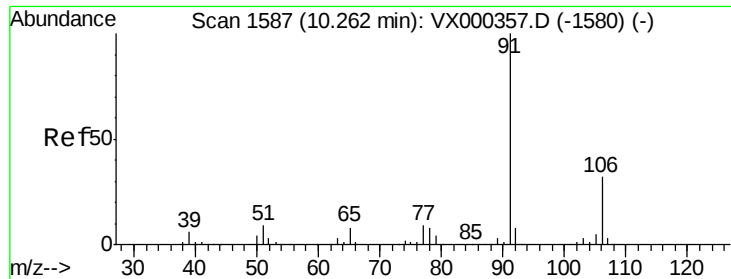
Delta R.T. -0.00 min

Lab File: VX000544.D

Acq: 30 Mar 2018 05:35

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 117   | Resp: | 192329 |
| Ion      | Ratio | Lower | Upper  |
| 117      | 100   |       |        |
| 82       | 53.3  | 43.8  | 65.8   |
| 119      | 32.5  | 24.9  | 37.3   |





#67

Ethyl Benzene

Concen: 4.77 ug/l

RT: 10.26 min Scan# 1587

Delta R.T. -0.00 min

Lab File: VX000544.D

Acq: 30 Mar 2018 05:35

Instrument :

MSVOA\_X

ClientSampled :

22193-4-5

Tot Ion: 91 Resp: 34586

Ion Ratio Lower Upper

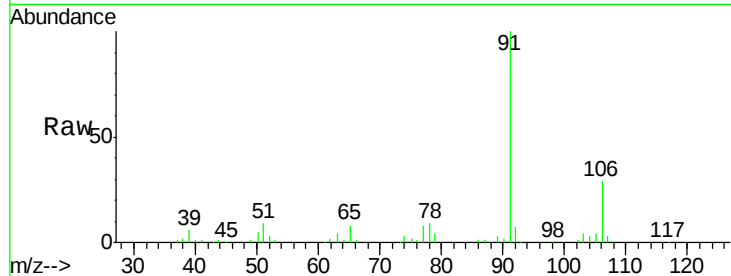
91 100

106 29.4 25.0 37.6

Manual Integrations  
APPROVED

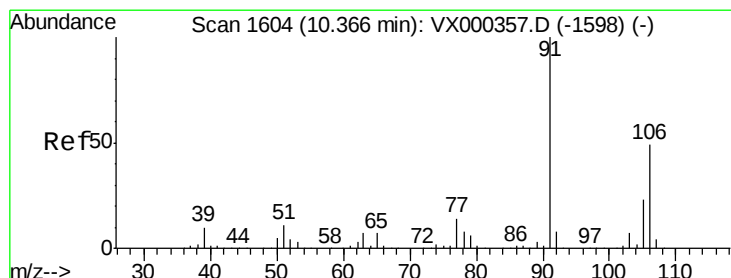
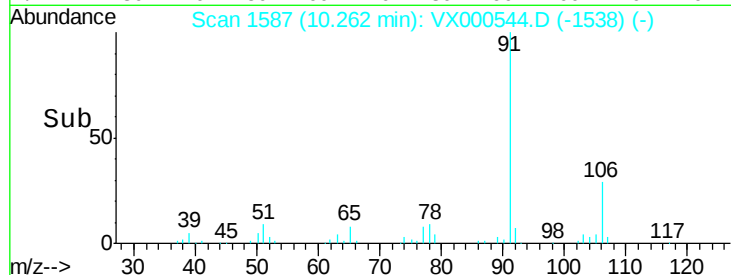
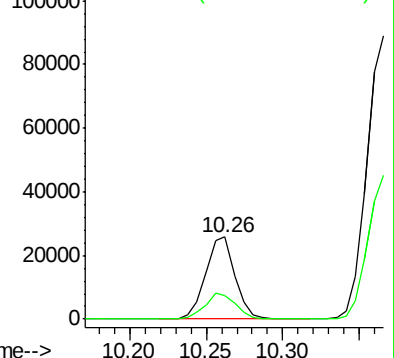
sam

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Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 106.00 (105.70 to 106.70): V



#68

m/p-Xylenes

Concen: 20.57 ug/l

RT: 10.37 min Scan# 1604

Delta R.T. -0.00 min

Lab File: VX000544.D

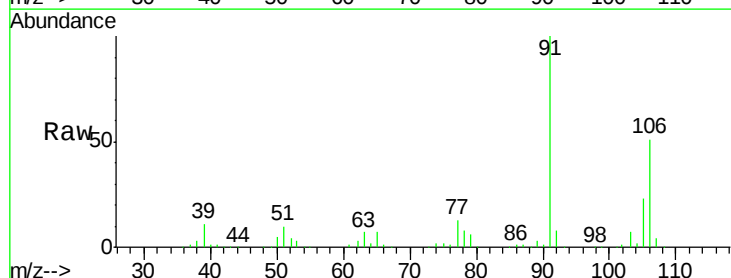
Acq: 30 Mar 2018 05:35

Tgt Ion: 106 Resp: 58733

Ion Ratio Lower Upper

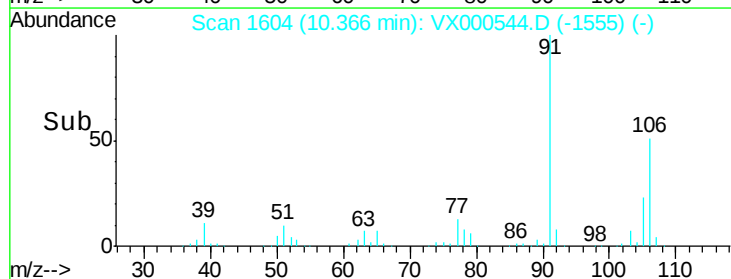
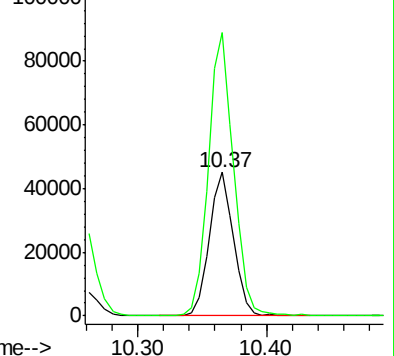
106 100

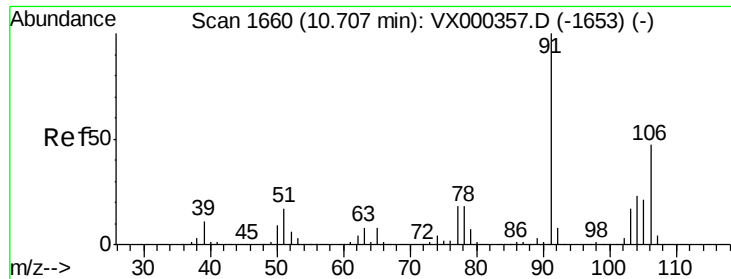
91 204.8 163.4 245.2



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VX0





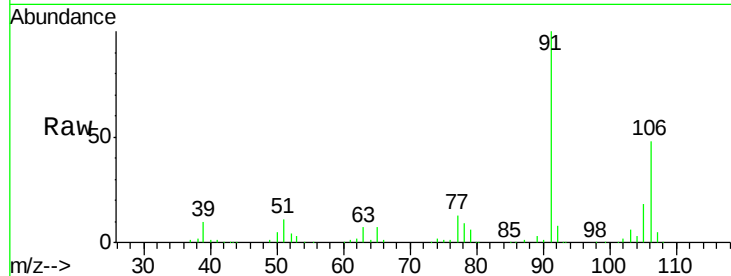
#69  
o-Xylene  
Concen: 14.49 ug/l  
RT: 10.71 min Scan# 1660  
Delta R.T. -0.00 min  
Lab File: VX000544.D  
Acq: 30 Mar 2018 05:35

Instrument :  
MSVOA\_X  
ClientSampled :  
22193-4-5

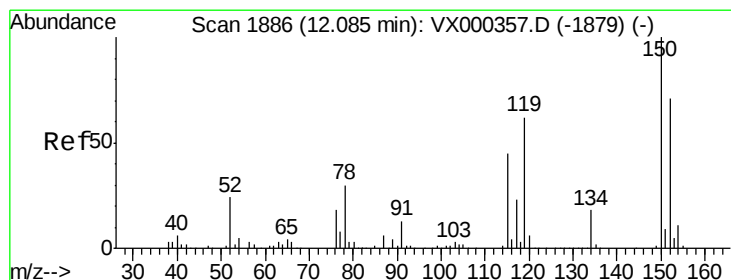
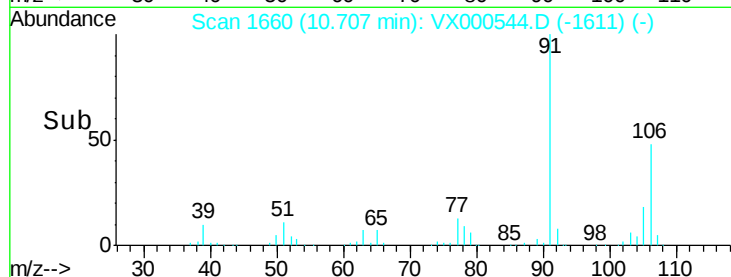
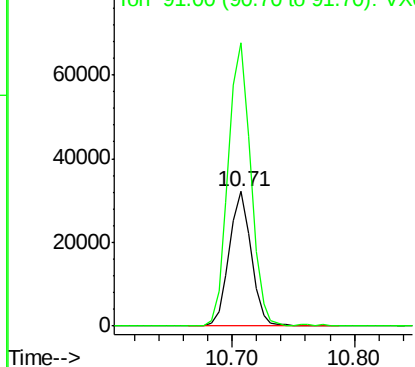
Tot Ion:106 Resp: 40051  
Ion Ratio Lower Upper  
106 100  
91 215.0 106.5 319.6

Manual Integrations  
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sam  
3/30/2018 4:10:45 PM

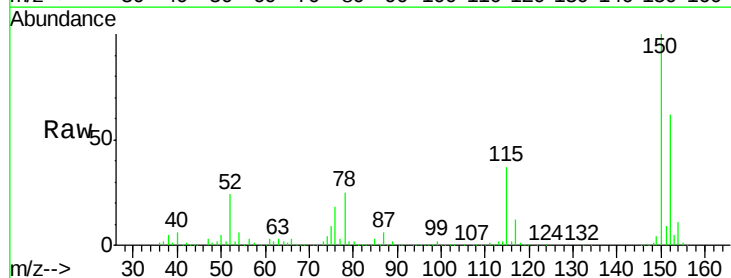


Abundance Ion 106.00 (105.70 to 106.70): V  
Ion 91.00 (90.70 to 91.70): VX0

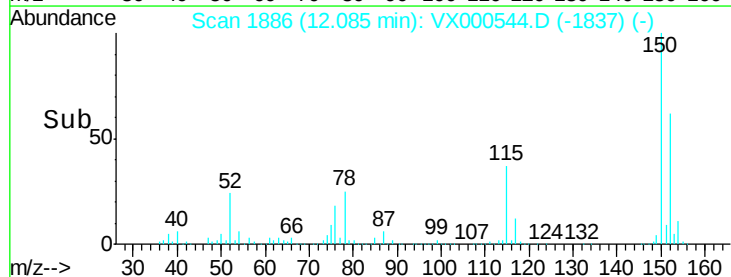
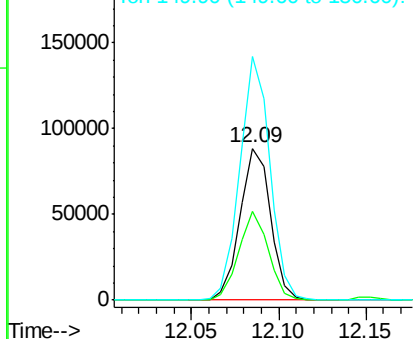


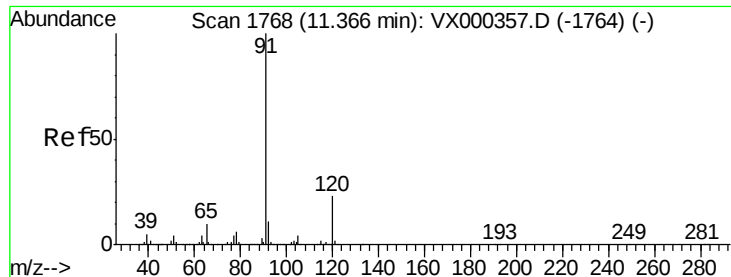
#72  
1,4-Dichlorobenzene-d4  
Concen: 50.00 ug/l  
RT: 12.09 min Scan# 1886  
Delta R.T. -0.00 min  
Lab File: VX000544.D  
Acq: 30 Mar 2018 05:35

Tgt Ion:152 Resp: 107800  
Ion Ratio Lower Upper  
152 100  
115 56.8 39.8 119.3  
150 158.1 0.0 344.4



Abundance Ion 151.90 (151.60 to 152.60): V  
Ion 114.90 (114.60 to 115.60): V  
Ion 149.90 (149.60 to 150.60): V





#78

n-propylbenzene

Concen: 1.67 ug/l

RT: 11.37 min Scan# 1768

Delta R.T. -0.00 min

Lab File: VX000544.D

Acq: 30 Mar 2018 05:35

Instrument :

MSVOA\_X

ClientSampled :

22193-4-5

Tot Ion: 91 Resp: 14208

Ion Ratio Lower Upper

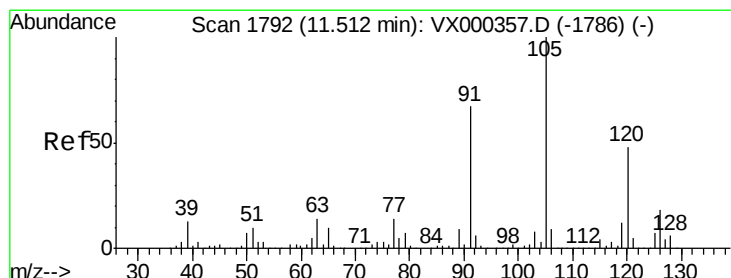
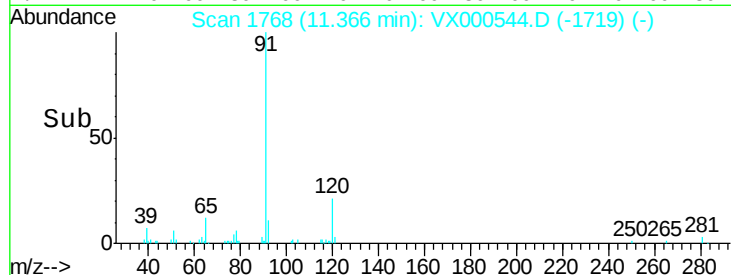
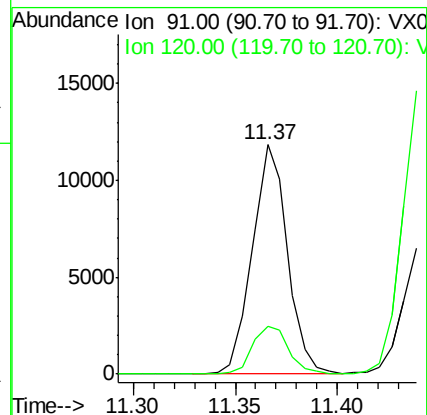
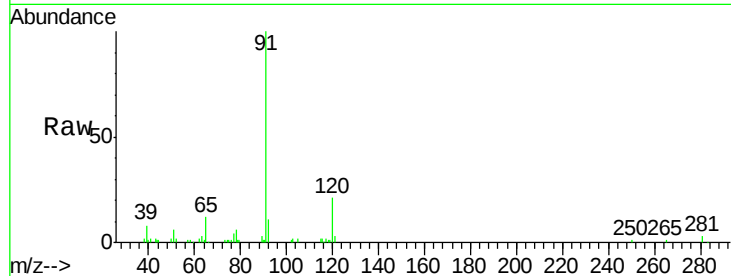
91 100

120 21.7 11.8 35.3

Manual Integrations  
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sam

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#80

1,3,5-Trimethylbenzene

Concen: 4.25 ug/l

RT: 11.51 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX000544.D

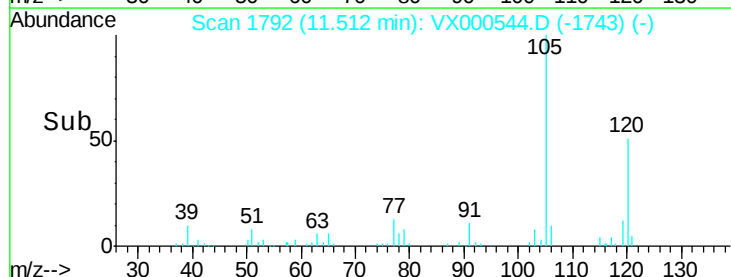
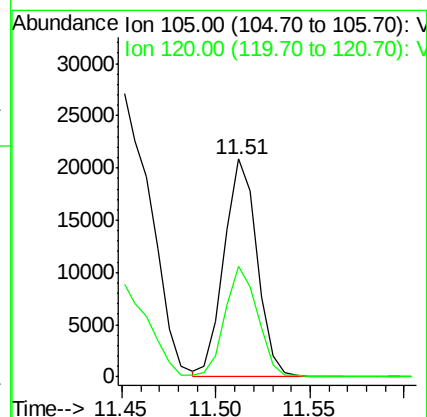
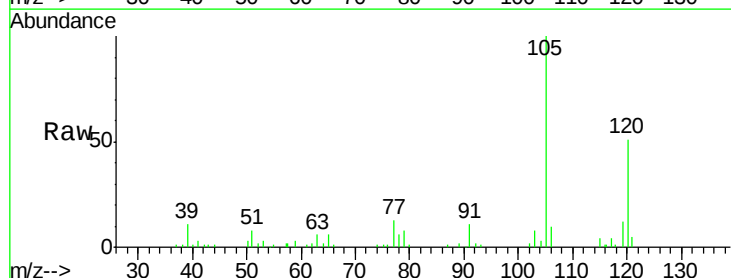
Acq: 30 Mar 2018 05:35

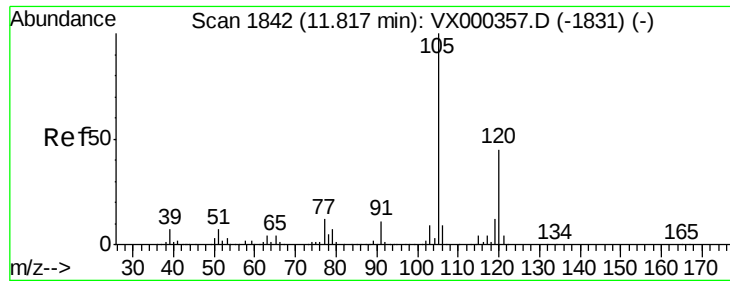
Tgt Ion: 105 Resp: 25494

Ion Ratio Lower Upper

105 100

120 50.0 24.1 72.4





#84

1,2,4-Trimethylbenzene

Concen: 14.48 ug/l

RT: 11.82 min Scan# 1842

Delta R.T. -0.00 min

Lab File: VX000544.D

Acq: 30 Mar 2018 05:35

Instrument :

MSVOA\_X

ClientSampleId :

22193-4-5

Tot Ion:105 Resp: 91158

Ion Ratio Lower Upper

105 100

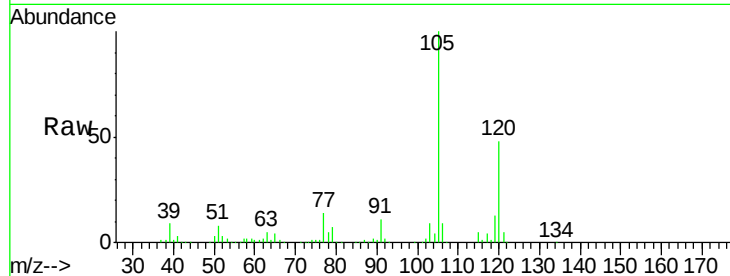
120 46.7 22.4 67.3

Manual Integrations

APPROVED

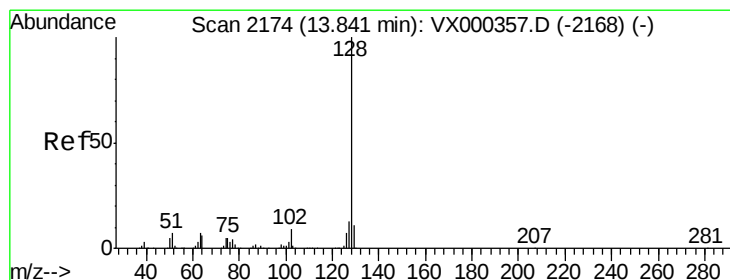
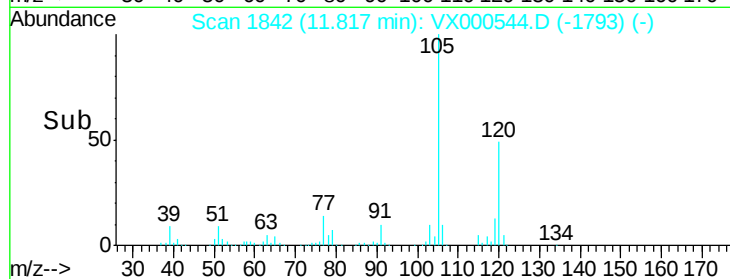
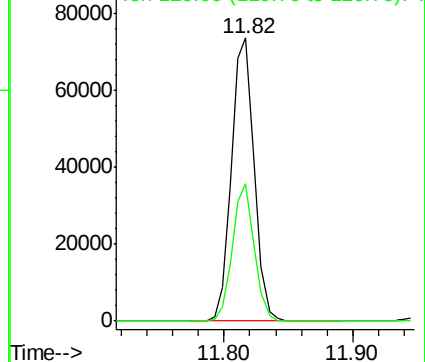
sam

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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#95

Naphthalene

Concen: 3.76 ug/l

RT: 13.84 min Scan# 2174

Delta R.T. -0.00 min

Lab File: VX000544.D

Acq: 30 Mar 2018 05:35

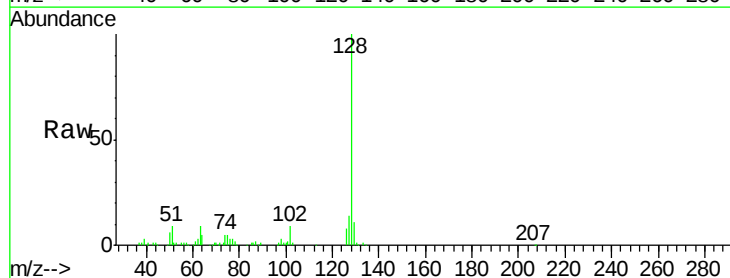
Tgt Ion:128 Resp: 33153

Ion Ratio Lower Upper

128 100

127 13.5 10.6 15.8

129 11.0 8.9 13.3



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

