

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX070319\  
 Data File : VX010669.D  
 Acq On : 04 Jul 2019 05:54  
 Operator : JC/SP  
 Sample : K3669-02  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 40 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 SS037MW266-190701

Manual Integrations  
 APPROVED

MMDadoda  
 7/8/2019 10:58:27 AM

Quant Time: Jul 05 01:30:03 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X061919W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Jun 20 03:31:56 2019  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|--------|---------|----------|
| 1) Pentafluorobenzene       | 5.67  | 168  | 237065   | 50.00  | ug/l    | 0.00     |
| 34) 1,4-Difluorobenzene     | 6.86  | 114  | 368958   | 50.00  | ug/l    | 0.00     |
| 63) Chlorobenzene-d5        | 10.11 | 117  | 334045   | 50.00  | ug/l    | 0.00     |
| 72) 1,4-Dichlorobenzene-d4  | 12.08 | 152  | 155067   | 50.00  | ug/l    | 0.00     |
| System Monitoring Compounds |       |      |          |        |         |          |
| 33) 1,2-Dichloroethane-d4   | 6.06  | 65   | 117676   | 52.94  | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =      | 105.88% |          |
| 35) Dibromofluoromethane    | 5.50  | 113  | 111783   | 49.52  | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =      | 99.04%  |          |
| 50) Toluene-d8              | 8.71  | 98   | 438773   | 50.80  | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =      | 101.60% |          |
| 62) 4-Bromofluorobenzene    | 11.13 | 95   | 147125   | 47.19  | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =      | 94.38%  |          |
| Target Compounds            |       |      |          |        |         |          |
|                             |       |      |          |        | Qvalue  |          |
| 4) Vinyl Chloride           | 1.41  | 62   | 1854     | 0.882  | ug/l #  | 85       |
| 16) Acetone                 | 2.45  | 43   | 3842     | 3.449  | ug/l #  | 88       |
| 27) cis-1,2-Dichloroethene  | 4.59  | 96   | 30763    | 12.046 | ug/l    | 91       |
| 31) Cyclohexane             | 5.59  | 56   | 27209    | 8.475  | ug/l    | 92       |
| 39) Methylcyclohexane       | 7.46  | 83   | 22023    | 5.714  | ug/l    | 94       |
| 40) Benzene                 | 6.15  | 78   | 4898     | 0.536  | ug/l    | 91       |
| 44) Trichloroethene         | 7.21  | 130  | 30871    | 11.295 | ug/l    | 100      |
| 64) Tetrachloroethene       | 9.34  | 164  | 42979    | 15.907 | ug/l    | 96       |
| 65) Chlorobenzene           | 10.13 | 112  | 156935   | 23.141 | ug/l    | 99       |
| 73) Isopropylbenzene        | 11.02 | 105  | 11551    | 1.099  | ug/l    | 98       |
| 78) n-propylbenzene         | 11.36 | 91   | 10044    | 0.869  | ug/l    | 98       |
| 83) tert-Butylbenzene       | 11.77 | 119  | 15599    | 1.794  | ug/l    | 94       |
| 85) sec-Butylbenzene        | 11.94 | 105  | 19760    | 1.935  | ug/l    | 95       |
| 87) 1,3-Dichlorobenzene     | 12.02 | 146  | 2485     | 0.485  | ug/l    | 91       |
| 88) 1,4-Dichlorobenzene     | 12.10 | 146  | 11771m   | 2.257  | ug/l    |          |
| 89) n-Butylbenzene          | 12.38 | 91   | 7744     | 0.965  | ug/l #  | 56       |
| 91) 1,2-Dichlorobenzene     | 12.39 | 146  | 3270     | 0.642  | ug/l    | 92       |
| 95) Naphthalene             | 13.83 | 128  | 4746     | 0.437  | ug/l #  | 94       |

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

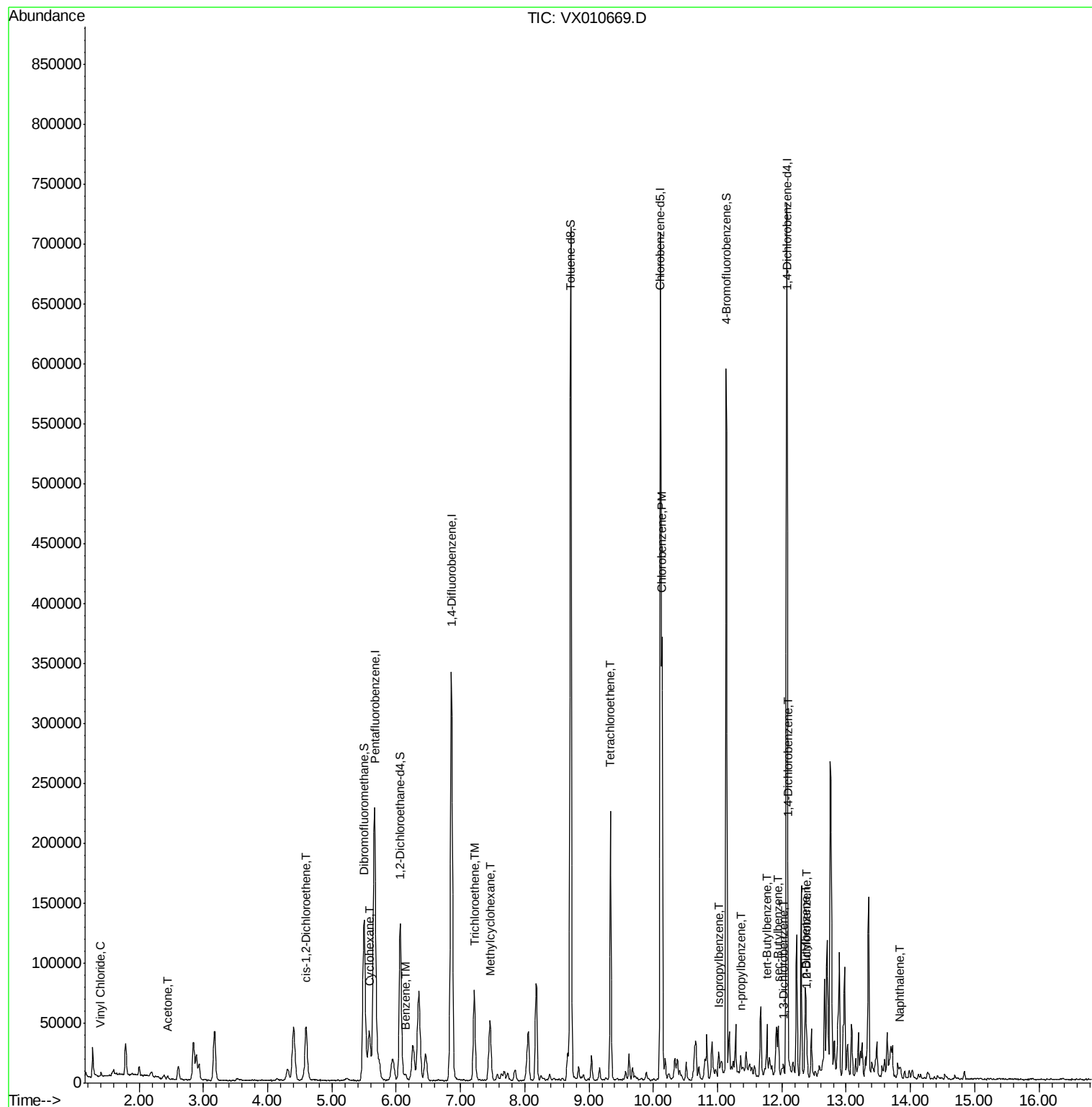
Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX070319\  
Data File : VX010669.D  
Acq On : 04 Jul 2019 05:54  
Operator : JC/SP  
Sample : K3669-02  
Misc : 5.0mL/MSVOA X/WATER  
ALS Vial : 40 Sample Multiplier: 1

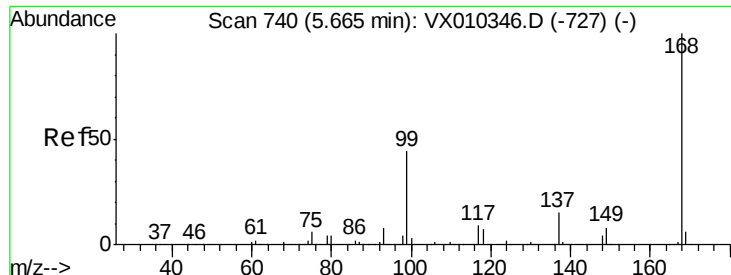
Instrument :  
MSVOA\_X  
ClientSampleId :  
SS037MW266-190701

Manual Integrations  
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7/8/2019 10:58:27 AM

Quant Time: Jul 05 01:30:03 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X061919W.M  
Quant Title : SW846 8260  
QLast Update : Thu Jun 20 03:31:56 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.00 min

Lab File: VX010669.D

Acq: 04 Jul 2019 05:54

Instrument :

MSVOA\_X

ClientSampleId :

SS037MW266-190701

Tot Ion:168 Resp: 237065

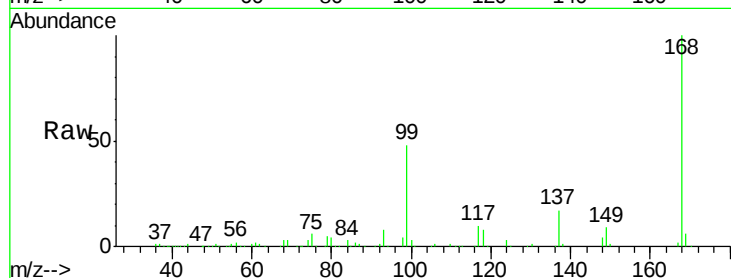
Ion Ratio Lower Upper

168 100

99 48.4 35.5 53.3

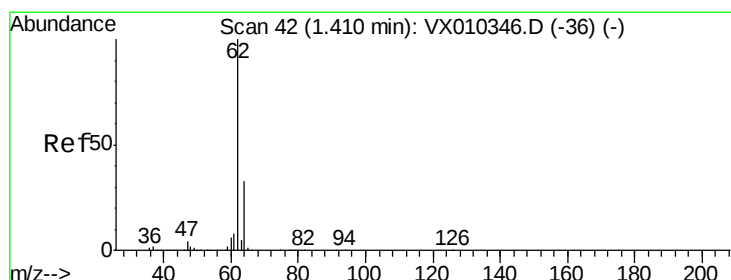
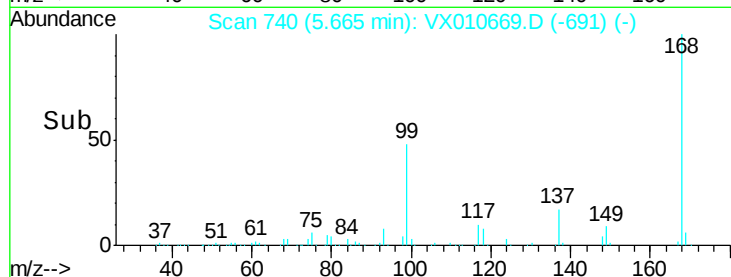
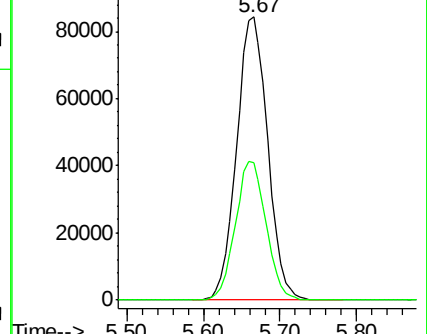
Manual Integrations  
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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#4

Vinyl Chloride

Concen: 0.882 ug/l

RT: 1.41 min Scan# 42

Delta R.T. 0.00 min

Lab File: VX010669.D

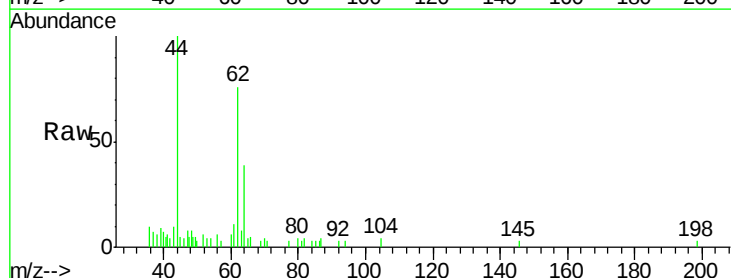
Acq: 04 Jul 2019 05:54

Tgt Ion: 62 Resp: 1854

Ion Ratio Lower Upper

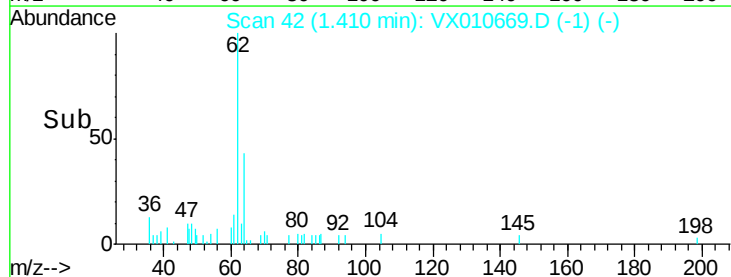
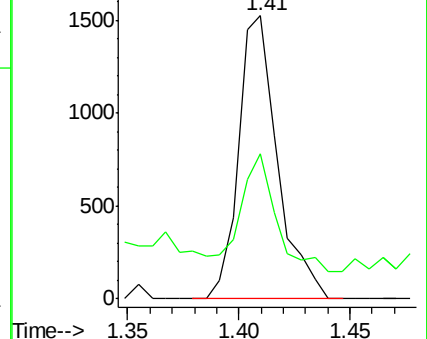
62 100

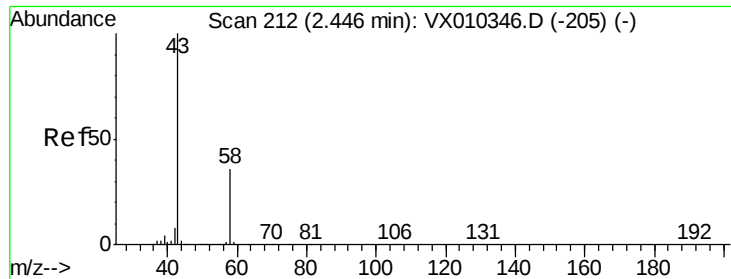
64 41.4 26.2 39.4#



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0





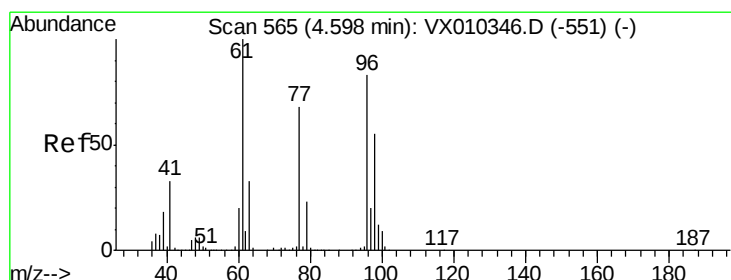
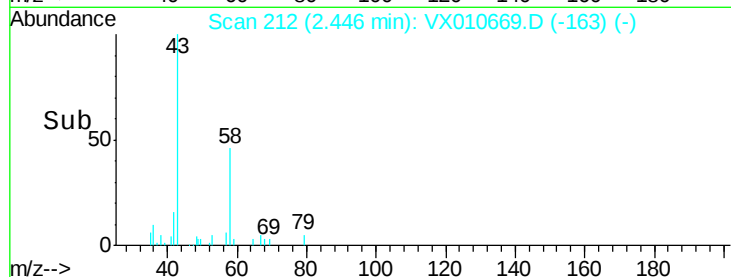
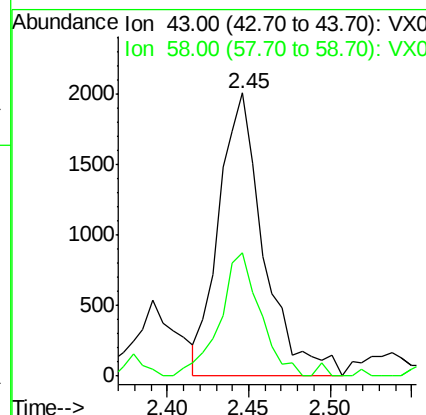
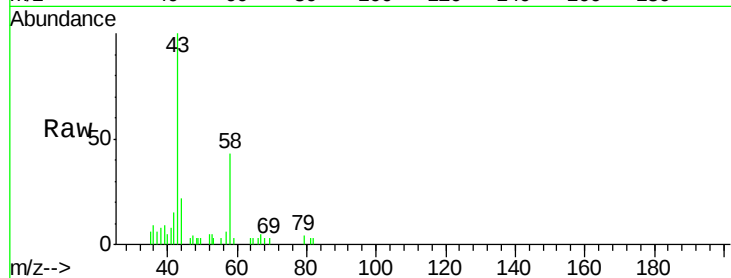
#16  
Acetone  
Concen: 3.449 ug/l  
RT: 2.45 min Scan# 212  
Delta R.T. 0.00 min  
Lab File: VX010669.D  
Acq: 04 Jul 2019 05:54

Instrument :  
MSVOA\_X  
ClientSampleId :  
SS037MW266-190701

Tot Ion: 43 Resp: 3842  
Ion Ratio Lower Upper  
43 100  
58 43.4 28.9 43.3#

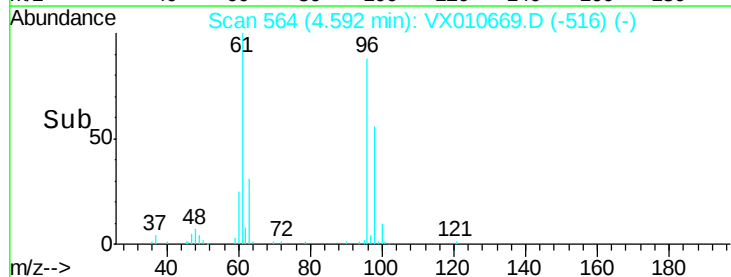
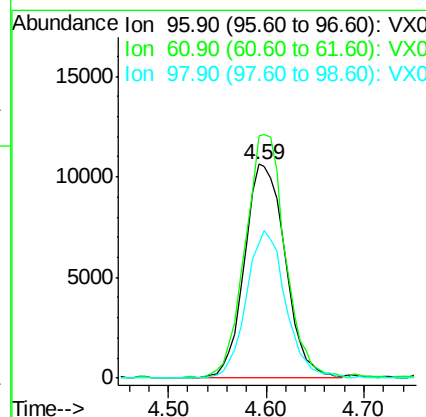
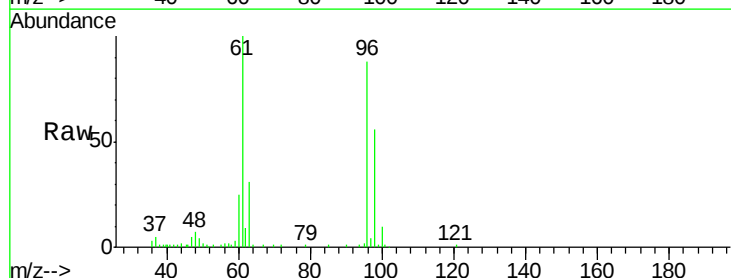
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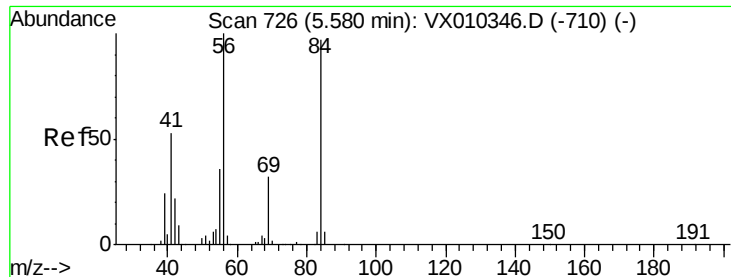
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#27  
cis-1,2-Dichloroethene  
Concen: 12.046 ug/l  
RT: 4.59 min Scan# 564  
Delta R.T. -0.01 min  
Lab File: VX010669.D  
Acq: 04 Jul 2019 05:54

Tgt Ion: 96 Resp: 30763  
Ion Ratio Lower Upper  
96 100  
61 112.3 0.0 251.8  
98 66.5 0.0 129.4





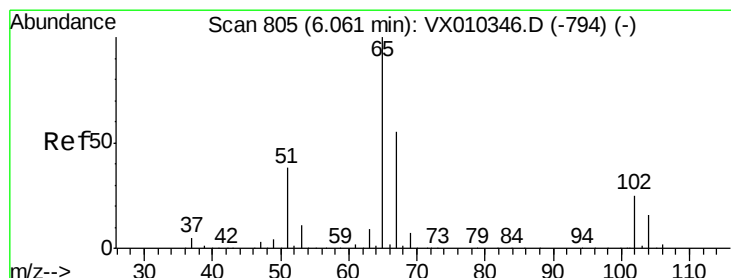
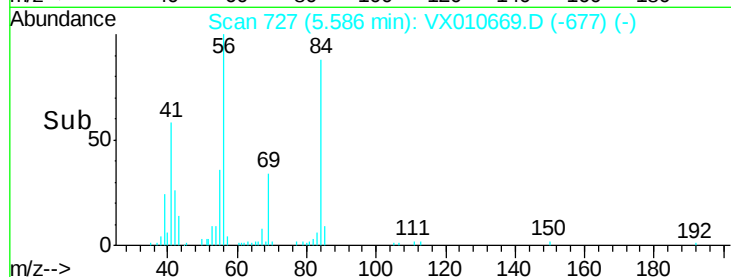
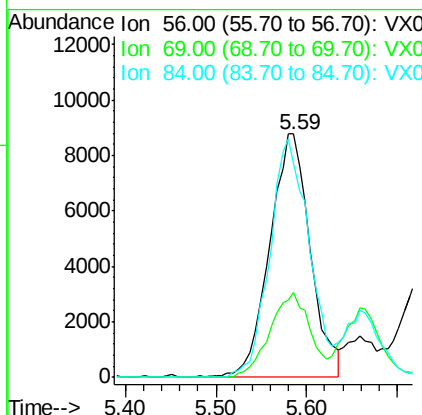
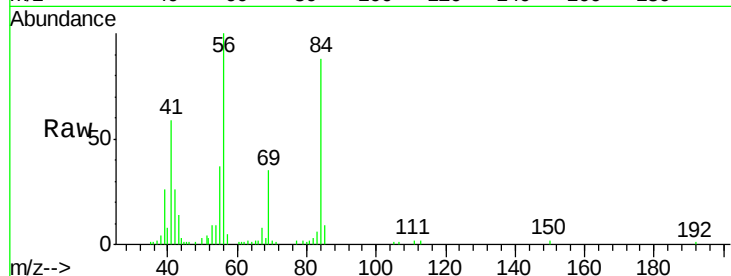
#31  
Cyclohexane  
Concen: 8.475 ug/l  
RT: 5.59 min Scan# 727  
Delta R.T. 0.01 min  
Lab File: VX010669.D  
Acq: 04 Jul 2019 05:54

Instrument :  
MSVOA\_X  
ClientSampleId :  
SS037MW266-190701

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 56      | 100   |       |       |
| 69      | 35.1  | 25.9  | 38.9  |
| 84      | 88.2  | 78.0  | 117.0 |

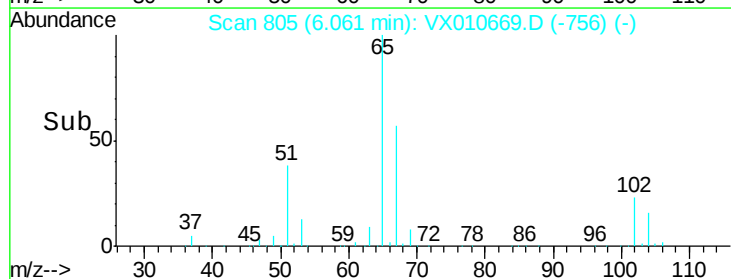
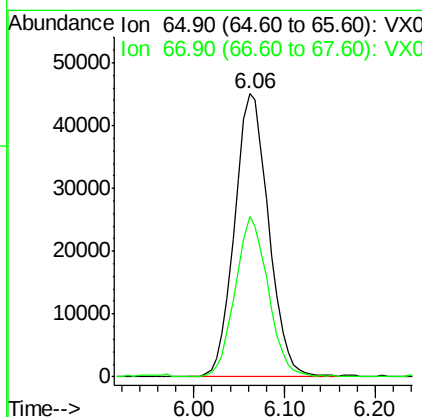
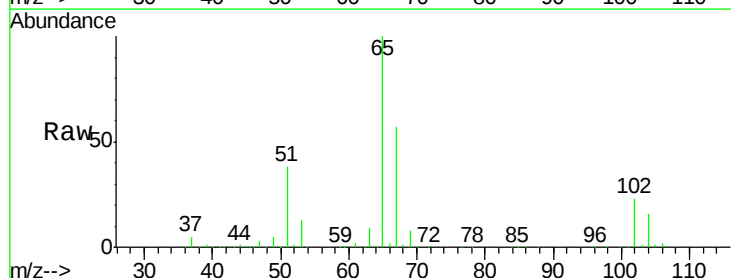
Manual Integrations  
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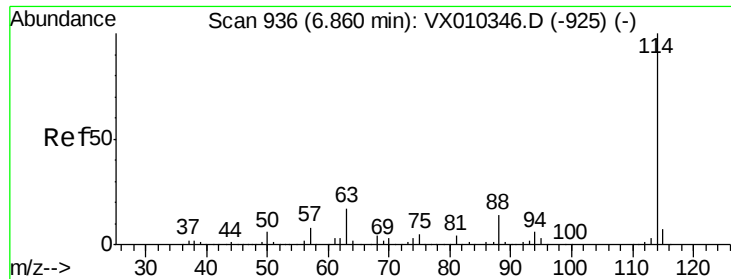
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#33  
1,2-Dichloroethane-d4  
Concen: 52.942 ug/l  
RT: 6.06 min Scan# 805  
Delta R.T. 0.00 min  
Lab File: VX010669.D  
Acq: 04 Jul 2019 05:54

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 65      | 100   |       |       |
| 67      | 54.2  | 0.0   | 110.2 |





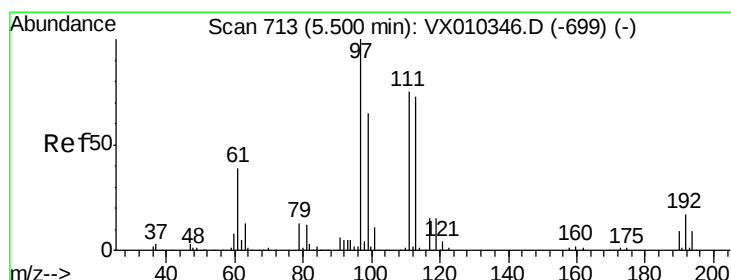
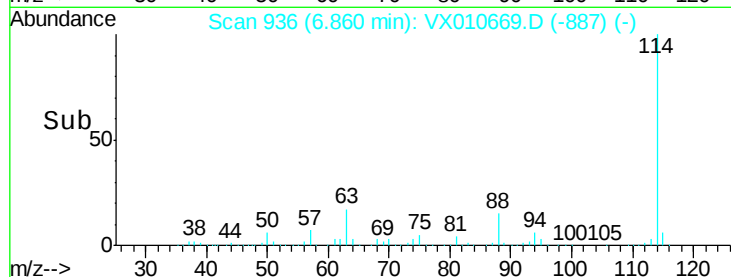
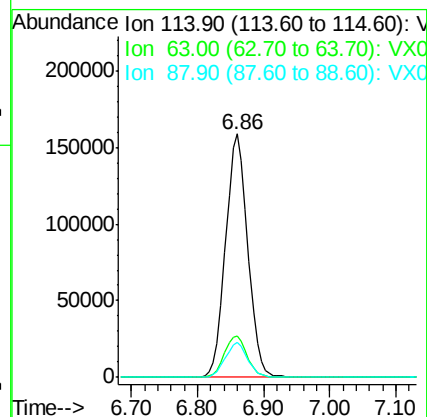
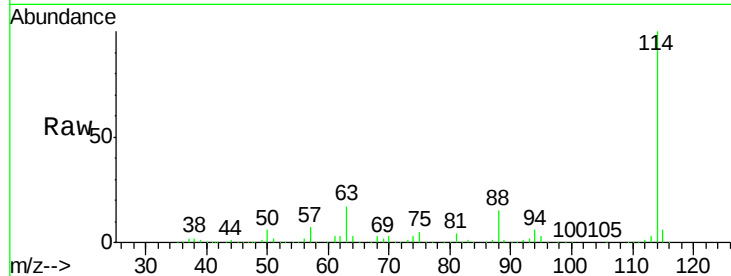
#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 6.86 min Scan# 936  
 Delta R.T. 0.00 min  
 Lab File: VX010669.D  
 Acq: 04 Jul 2019 05:54

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 SS037MW266-190701

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 114     | 100   | 368958 |       |       |
| 63      | 17.2  |        | 0.0   | 33.8  |
| 88      | 14.6  |        | 0.0   | 27.6  |

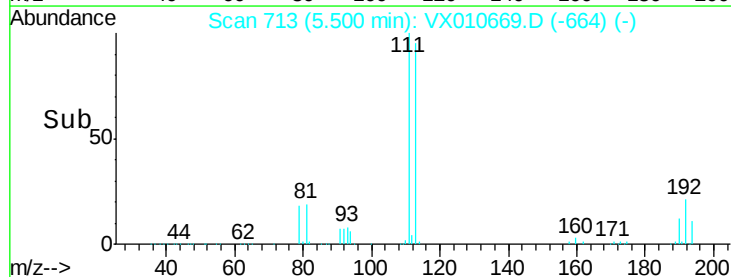
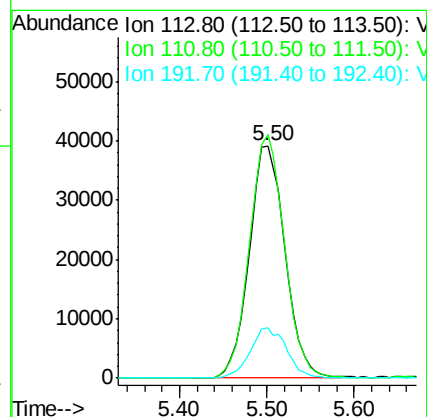
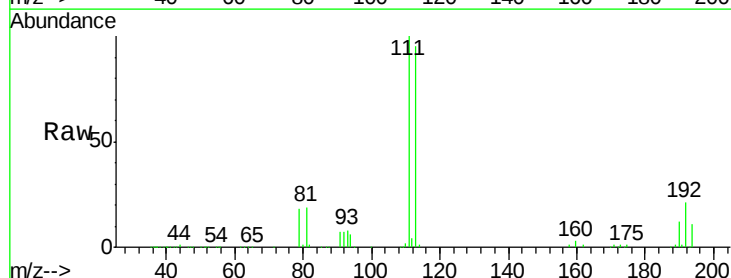
Manual Integrations  
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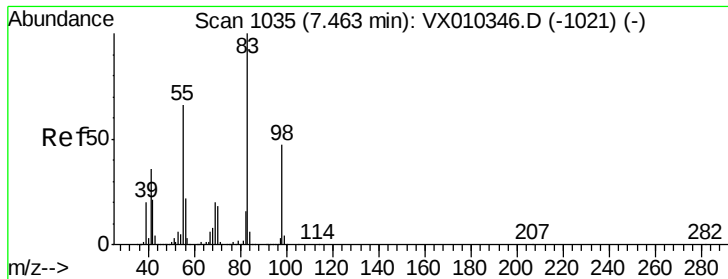
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 7/8/2019 10:58:27 AM



#35  
 Dibromofluoromethane  
 Concen: 49.518 ug/l  
 RT: 5.50 min Scan# 713  
 Delta R.T. 0.00 min  
 Lab File: VX010669.D  
 Acq: 04 Jul 2019 05:54

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 113     | 100   | 111783 |       |       |
| 111     | 102.4 |        | 81.2  | 121.8 |
| 192     | 21.9  |        | 18.6  | 27.8  |





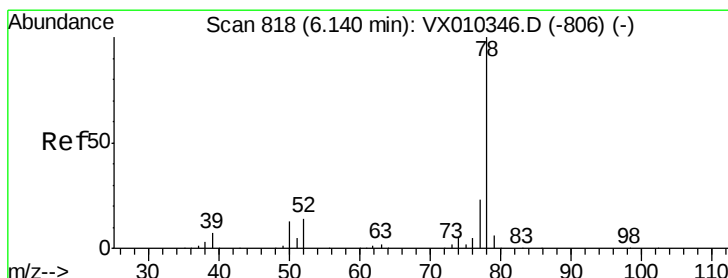
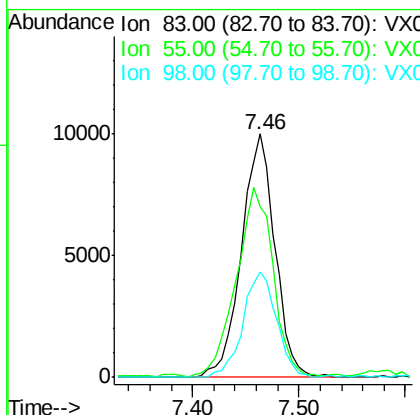
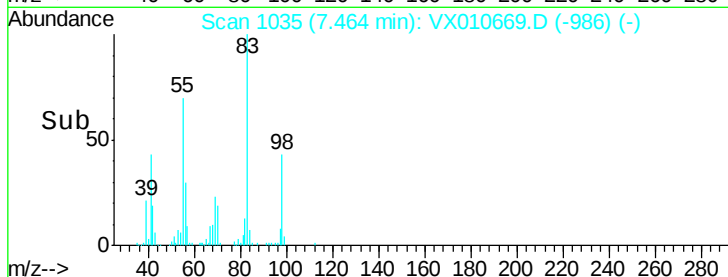
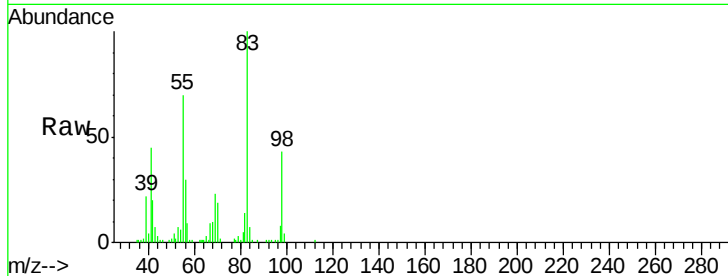
#39  
Methvlcvclohexane  
Concen: 5.714 ug/l  
RT: 7.46 min Scan# 1035  
Delta R.T. 0.00 min  
Lab File: VX010669.D  
Acq: 04 Jul 2019 05:54

Instrument :  
MSVOA\_X  
ClientSampleId :  
SS037MW266-190701

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 83      | 100   |       |       |
| 55      | 70.2  | 53.0  | 79.6  |
| 98      | 43.1  | 37.8  | 56.8  |

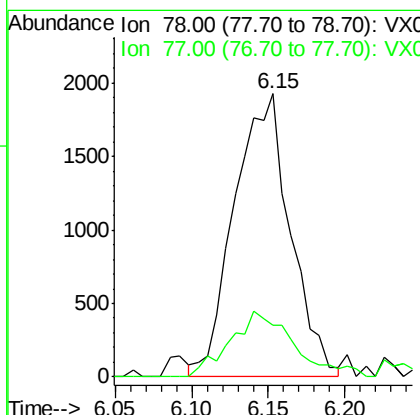
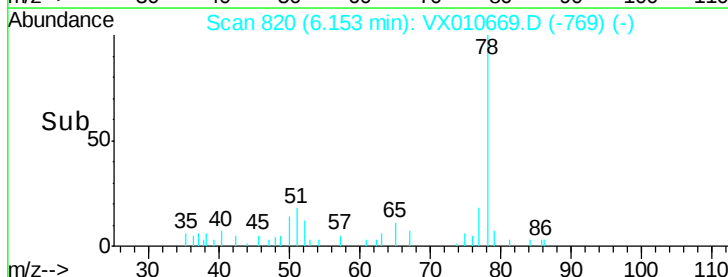
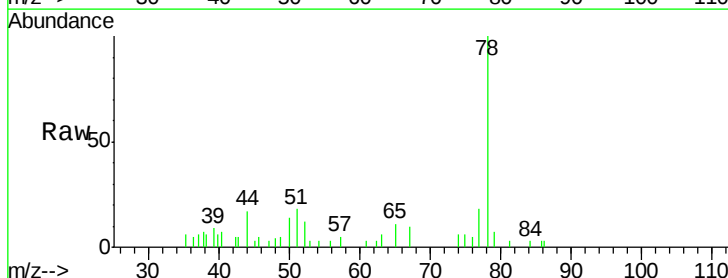
Manual Integrations  
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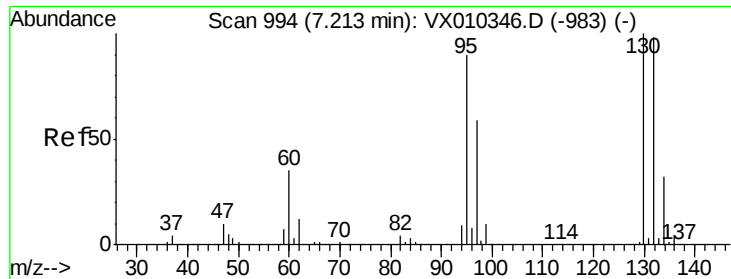
MMDadoda  
7/8/2019 10:58:27 AM



#40  
Benzene  
Concen: 0.536 ug/l  
RT: 6.15 min Scan# 820  
Delta R.T. 0.01 min  
Lab File: VX010669.D  
Acq: 04 Jul 2019 05:54

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 78      | 100   |       |       |
| 77      | 19.2  | 18.6  | 28.0  |





#44

Trichloroethene

Concen: 11.295 ug/l

RT: 7.21 min Scan# 994

Delta R.T. 0.00 min

Lab File: VX010669.D

Acq: 04 Jul 2019 05:54

Instrument :

MSVOA\_X

ClientSampleId :

SS037MW266-190701

Tot Ion:130 Resp: 30871

Ion Ratio Lower Upper

130 100

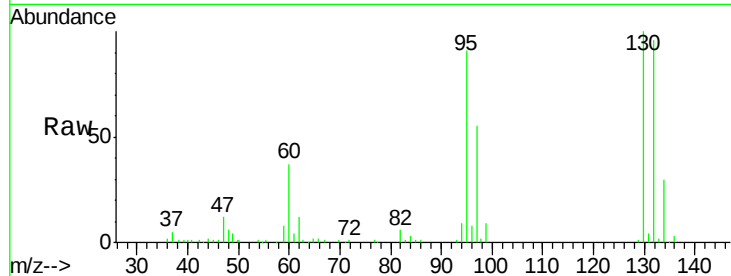
95 90.6 0.0 180.8

Manual Integrations

APPROVED

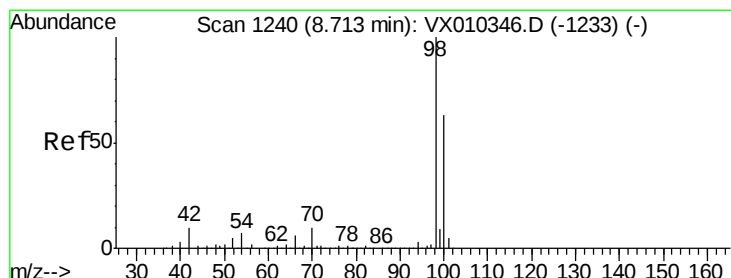
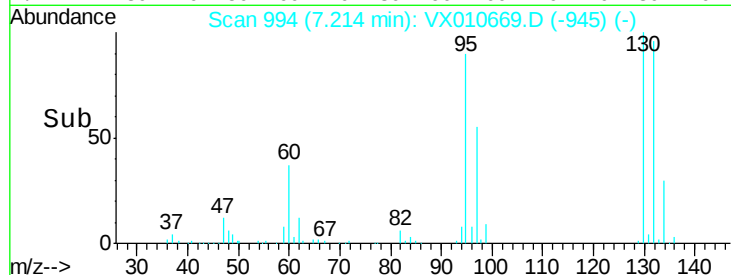
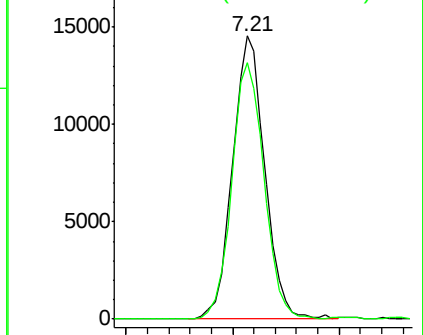
MMDadoda

7/8/2019 10:58:27 AM



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0



#50

Toluene-d8

Concen: 50.805 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX010669.D

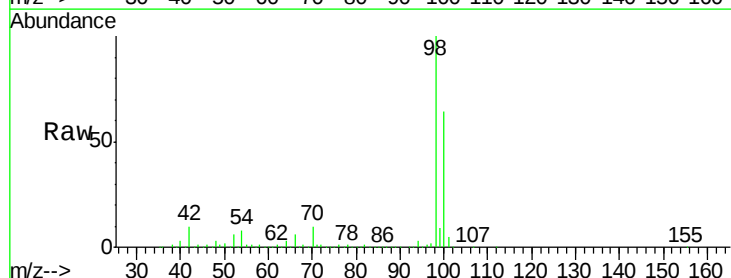
Acq: 04 Jul 2019 05:54

Tgt Ion: 98 Resp: 438773

Ion Ratio Lower Upper

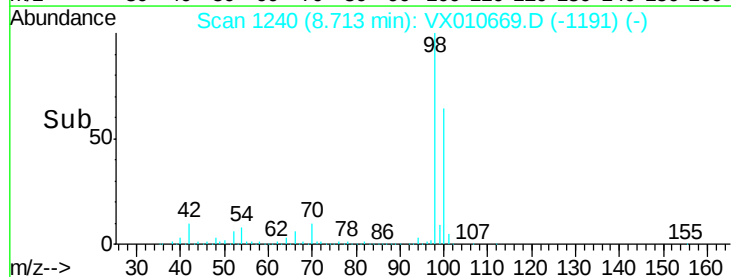
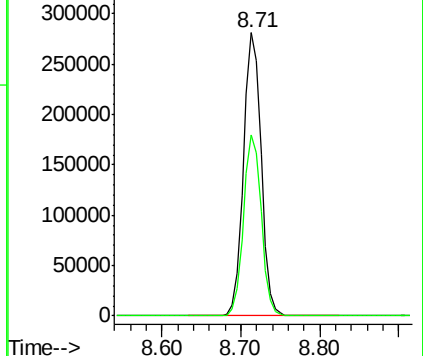
98 100

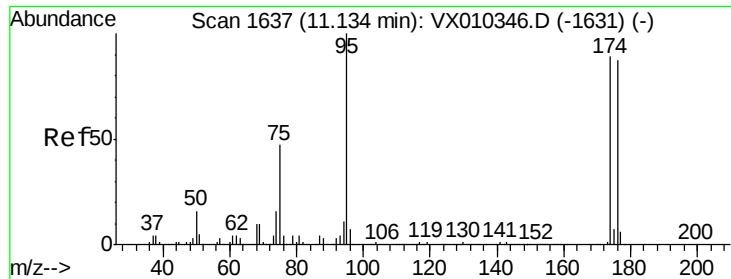
100 64.0 51.6 77.4



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0





#62

4-Bromofluorobenzene

Concen: 47.186 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX010669.D

Acq: 04 Jul 2019 05:54

Instrument :

MSVOA\_X

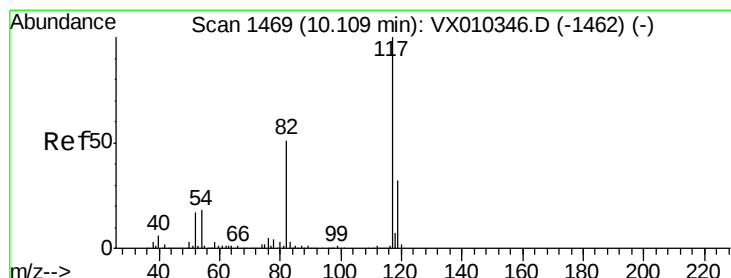
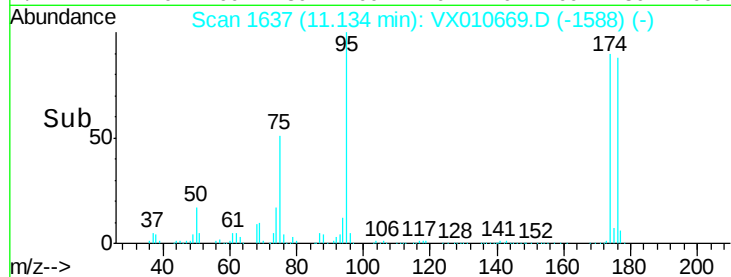
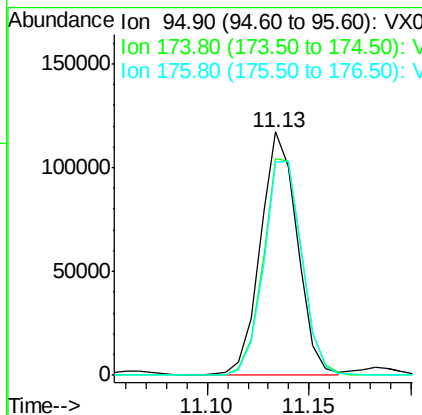
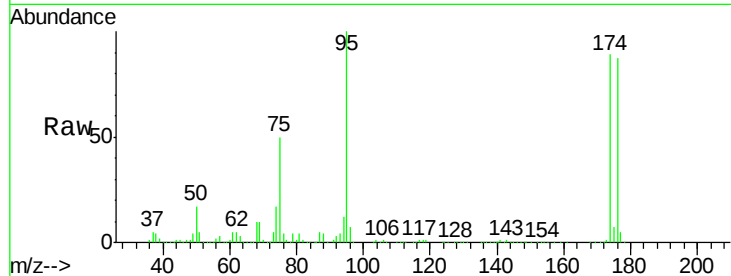
ClientSampleId :

SS037MW266-190701

| Tot Ion   | 95    | Resp  | 147125 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 95        | 100   |       |        |
| 174       | 93.3  | 0.0   | 187.6  |
| 176       | 91.7  | 0.0   | 184.0  |

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#63

Chlorobenzene-d5

Concen: 50.000 ug/l

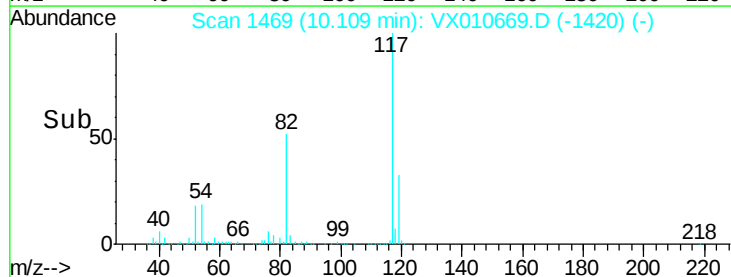
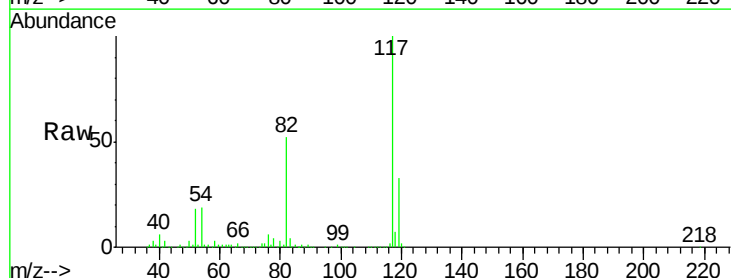
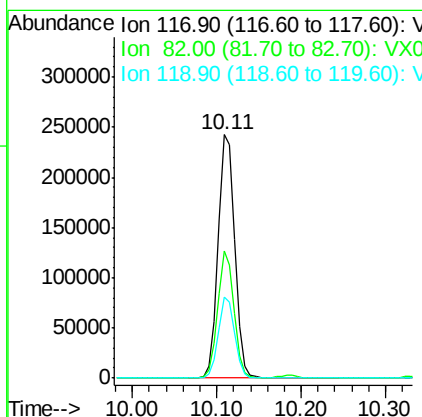
RT: 10.11 min Scan# 1469

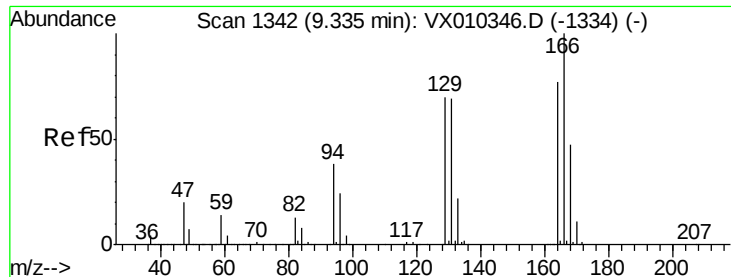
Delta R.T. 0.00 min

Lab File: VX010669.D

Acq: 04 Jul 2019 05:54

| Tgt Ion   | 117   | Resp  | 334045 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 117       | 100   |       |        |
| 82        | 52.4  | 41.2  | 61.8   |
| 119       | 33.0  | 25.5  | 38.3   |





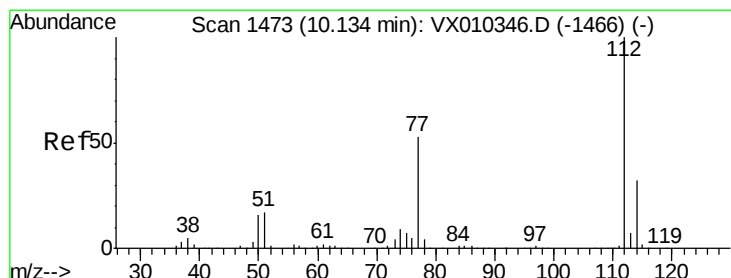
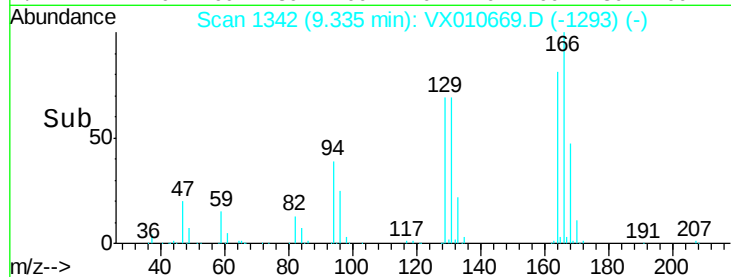
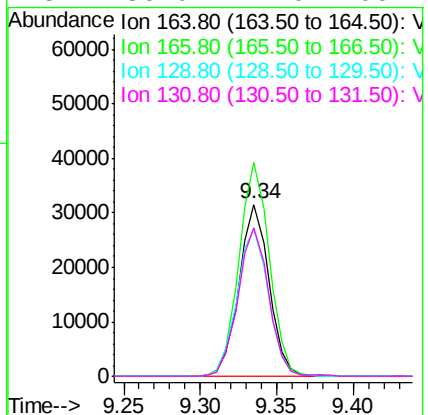
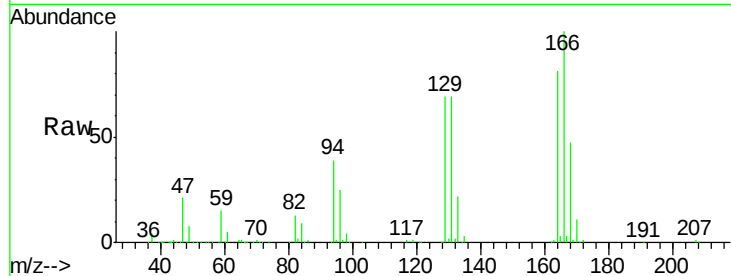
#64  
 Tetrachloroethene  
 Concen: 15.907 ug/l  
 RT: 9.34 min Scan# 1342  
 Delta R.T. 0.00 min  
 Lab File: VX010669.D  
 Acq: 04 Jul 2019 05:54

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 SS037MW266-190701

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 164   | Resp: | 42979 |
| Ion      | Ratio | Lower | Upper |
| 164      | 100   |       |       |
| 166      | 124.1 | 103.6 | 155.4 |
| 129      | 85.8  | 73.0  | 109.4 |
| 131      | 86.0  | 71.0  | 106.4 |

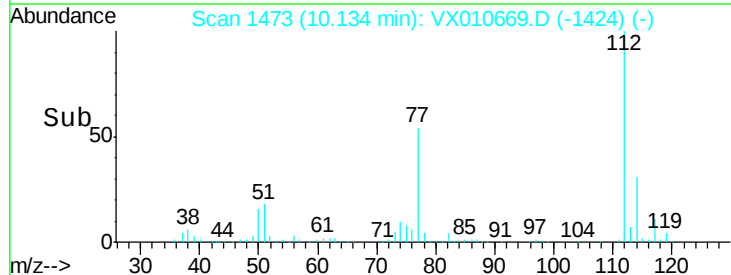
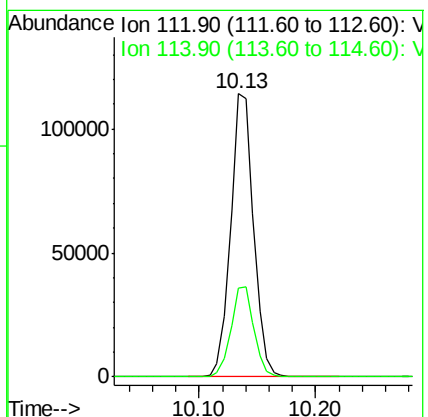
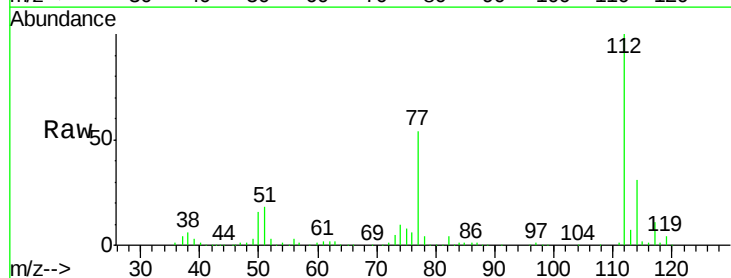
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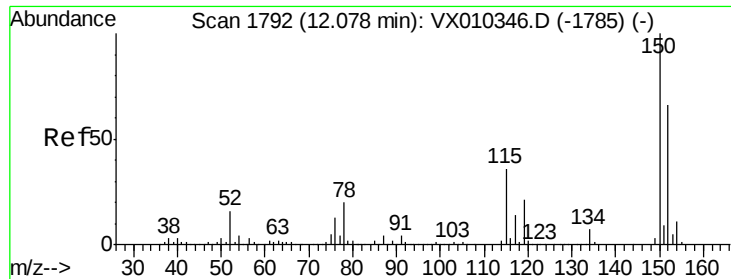
MMDadoda  
 7/8/2019 10:58:27 AM



#65  
 Chlorobenzene  
 Concen: 23.141 ug/l  
 RT: 10.13 min Scan# 1473  
 Delta R.T. 0.00 min  
 Lab File: VX010669.D  
 Acq: 04 Jul 2019 05:54

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 112   | Resp: | 156935 |
| Ion      | Ratio | Lower | Upper  |
| 112      | 100   |       |        |
| 114      | 31.4  | 25.4  | 38.2   |





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. 0.00 min

Lab File: VX010669.D

Acq: 04 Jul 2019 05:54

Instrument :

MSVOA\_X

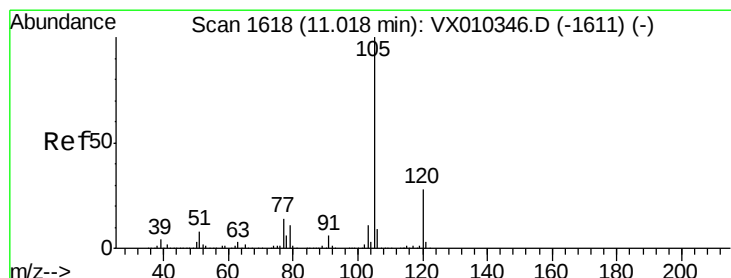
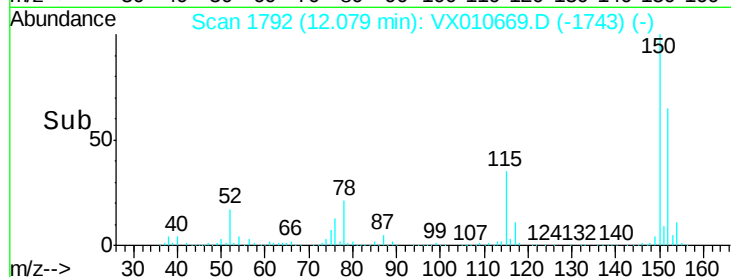
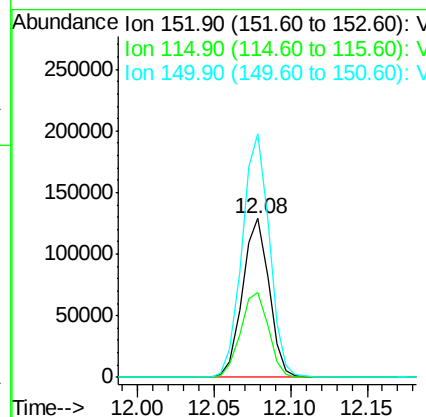
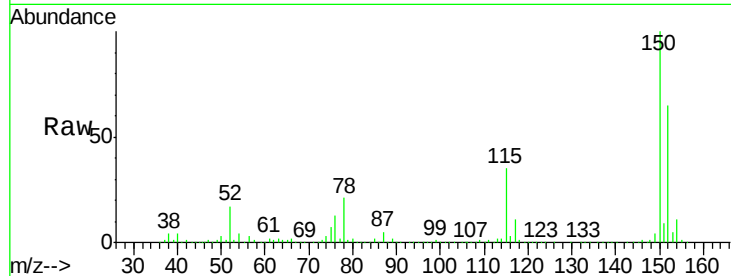
ClientSampleId :

SS037MW266-190701

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 152   | Resp: | 155067 |
| Ion Ratio | Lower | Upper |        |
| 152       | 100   |       |        |
| 115       | 55.9  | 38.6  | 115.7  |
| 150       | 157.1 | 0.0   | 347.4  |

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#73

Isopropylbenzene

Concen: 1.099 ug/l

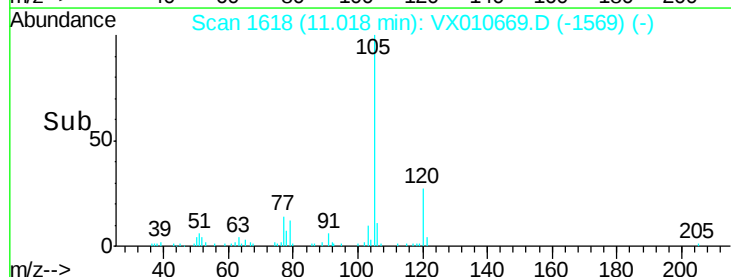
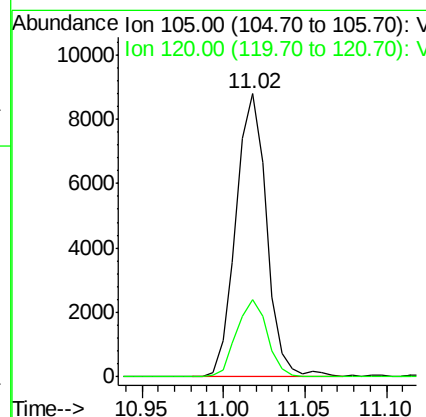
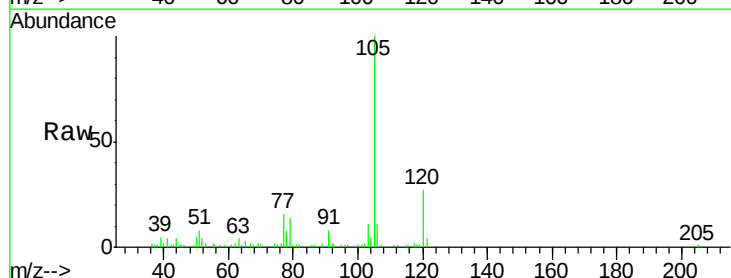
RT: 11.02 min Scan# 1618

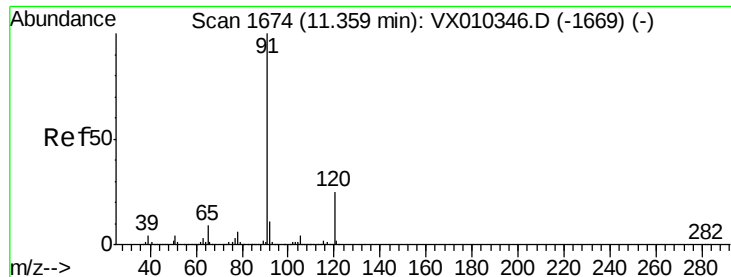
Delta R.T. 0.00 min

Lab File: VX010669.D

Acq: 04 Jul 2019 05:54

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 105   | Resp: | 11551 |
| Ion Ratio | Lower | Upper |       |
| 105       | 100   |       |       |
| 120       | 27.2  | 14.1  | 42.4  |





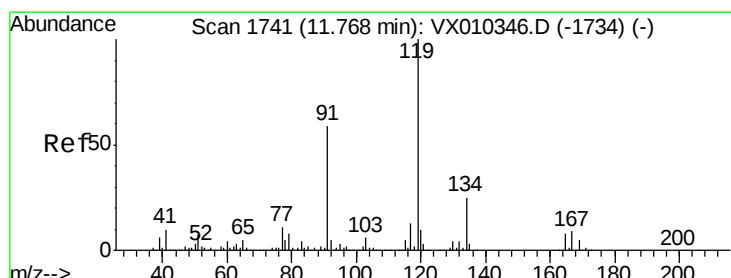
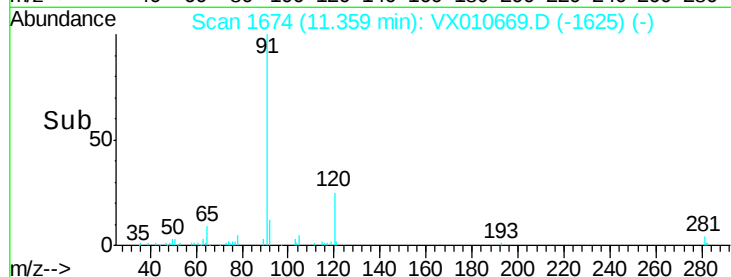
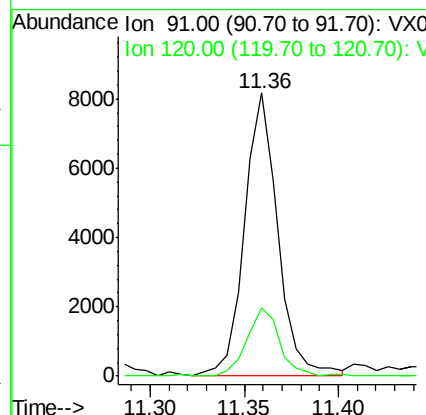
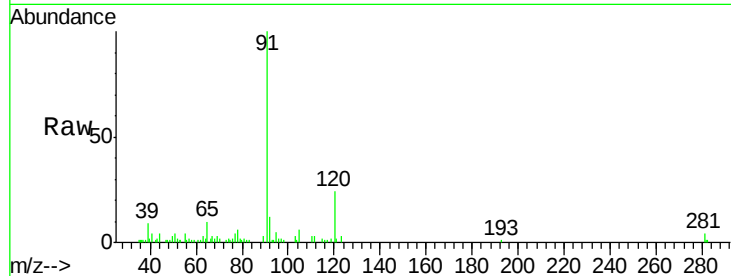
#78  
n-propylbenzene  
Concen: 0.869 ug/l  
RT: 11.36 min Scan# 1674  
Delta R.T. 0.00 min  
Lab File: VX010669.D  
Acq: 04 Jul 2019 05:54

Instrument :  
MSVOA\_X  
ClientSampleId :  
SS037MW266-190701

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 91      | 100   |       |       |
| 120     | 24.1  | 12.4  | 37.4  |

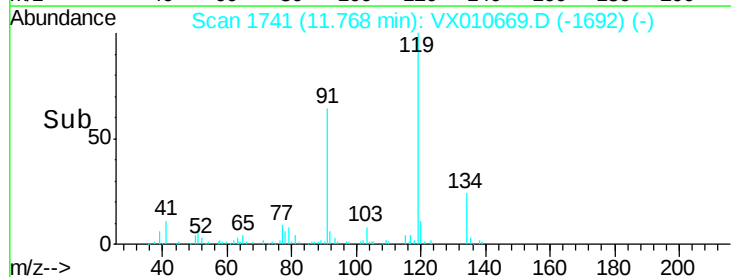
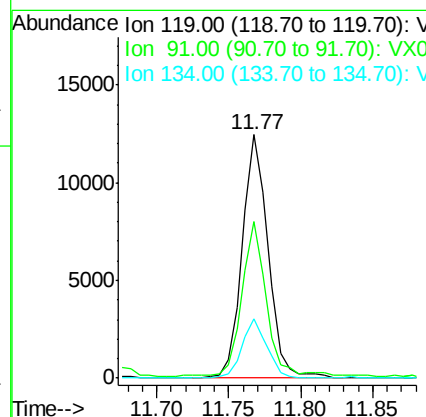
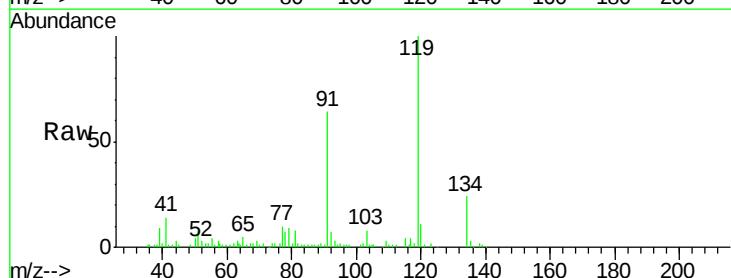
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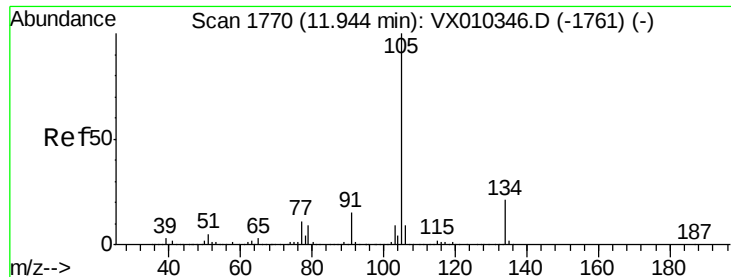
MMDadoda  
7/8/2019 10:58:27 AM



#83  
tert-Butylbenzene  
Concen: 1.794 ug/l  
RT: 11.77 min Scan# 1741  
Delta R.T. 0.00 min  
Lab File: VX010669.D  
Acq: 04 Jul 2019 05:54

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 119     | 100   |       |       |
| 91      | 61.2  | 27.6  | 82.7  |
| 134     | 23.2  | 11.8  | 35.4  |





#85

sec-Butylbenzene

Concen: 1.935 ug/l

RT: 11.94 min Scan# 1770

Delta R.T. 0.00 min

Lab File: VX010669.D

Acq: 04 Jul 2019 05:54

Instrument :

MSVOA\_X

ClientSampleId :

SS037MW266-190701

Tot Ion:105 Resp: 19760

Ion Ratio Lower Upper

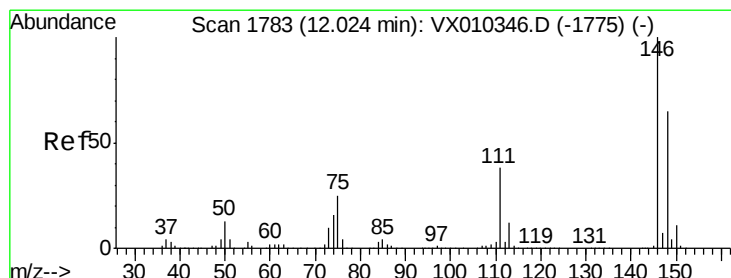
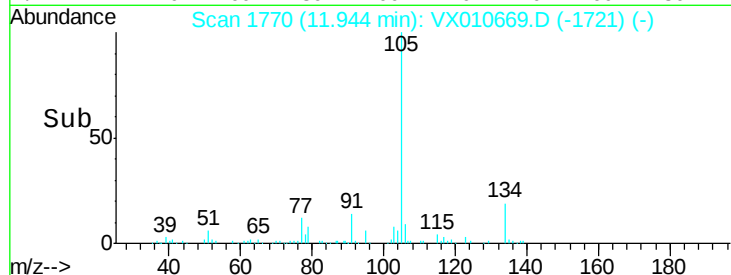
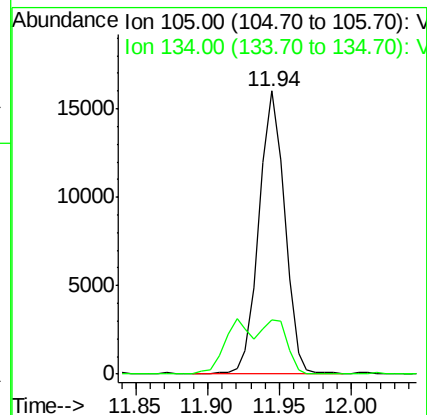
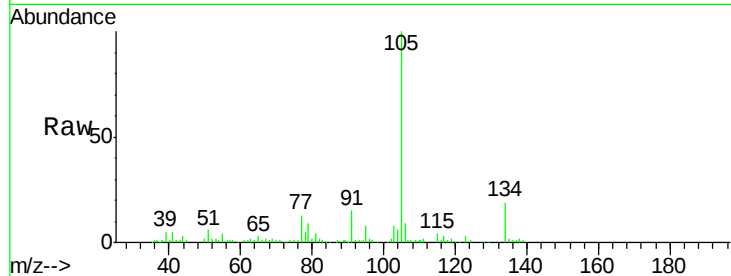
105 100

134 19.0 10.7 31.9

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7/8/2019 10:58:27 AM



#87

1,3-Dichlorobenzene

Concen: 0.485 ug/l

RT: 12.02 min Scan# 1783

Delta R.T. 0.00 min

Lab File: VX010669.D

Acq: 04 Jul 2019 05:54

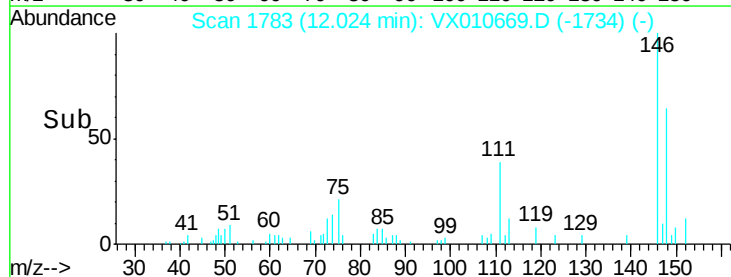
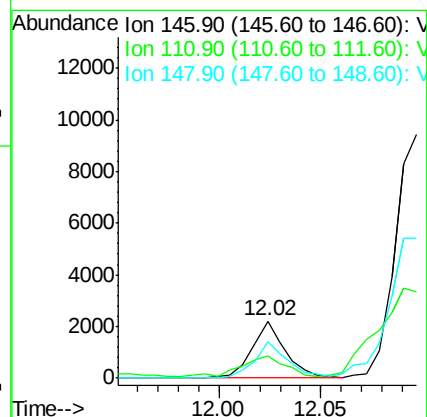
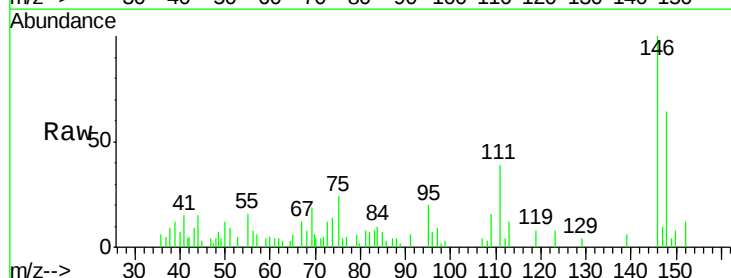
Tgt Ion:146 Resp: 2485

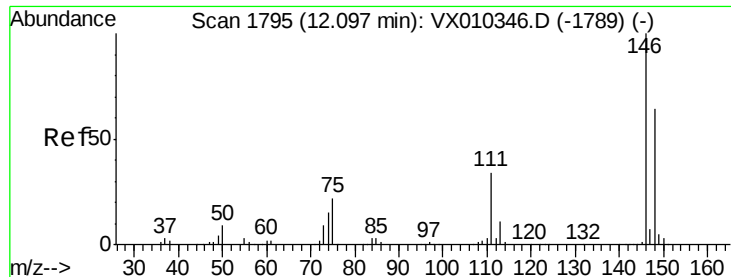
Ion Ratio Lower Upper

146 100

111 50.9 19.1 57.1

148 63.9 32.5 97.4





#88

1,4-Dichlorobenzene

Concen: 2.257 ug/l m

RT: 12.10 min Scan# 1795

Delta R.T. 0.00 min

Lab File: VX010669.D

Acq: 04 Jul 2019 05:54

Instrument :

MSVOA\_X

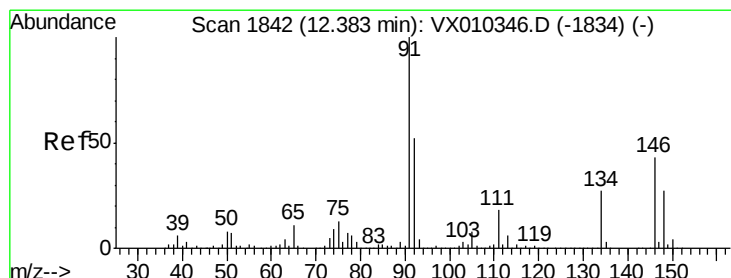
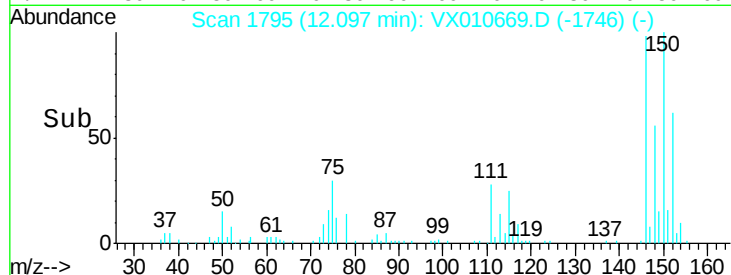
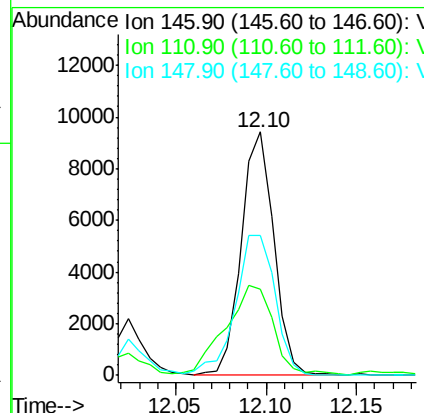
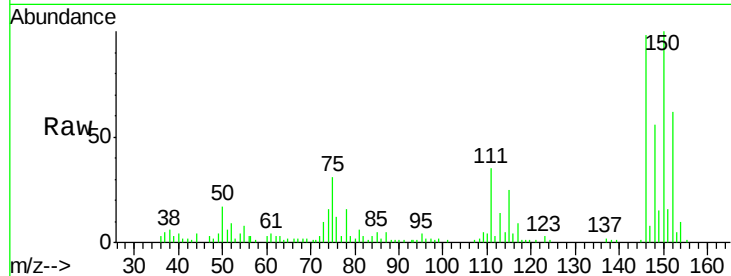
ClientSampleId :

SS037MW266-190701

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 146   | Resp: | 11771 |
| Ion Ratio | Lower | Upper |       |
| 146       | 100   |       |       |
| 111       | 11.1  | 18.1  | 54.3# |
| 148       | 13.5  | 32.1  | 96.3# |

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#89

n-Butylbenzene

Concen: 0.965 ug/l

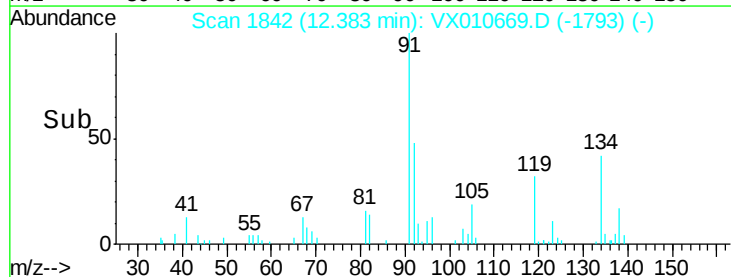
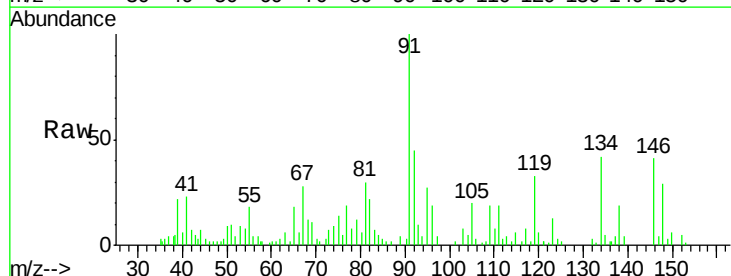
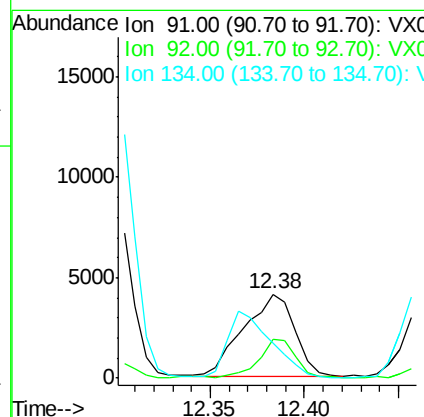
RT: 12.38 min Scan# 1842

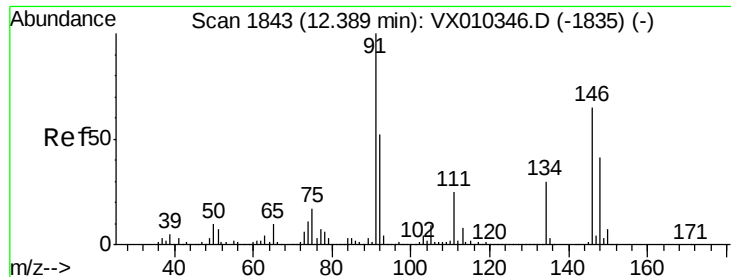
Delta R.T. 0.00 min

Lab File: VX010669.D

Acq: 04 Jul 2019 05:54

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 91    | Resp: | 7744  |
| Ion Ratio | Lower | Upper |       |
| 91        | 100   |       |       |
| 92        | 34.8  | 26.2  | 78.5  |
| 134       | 70.2  | 14.1  | 42.4# |





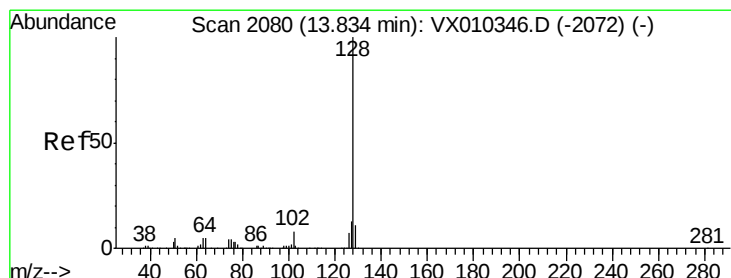
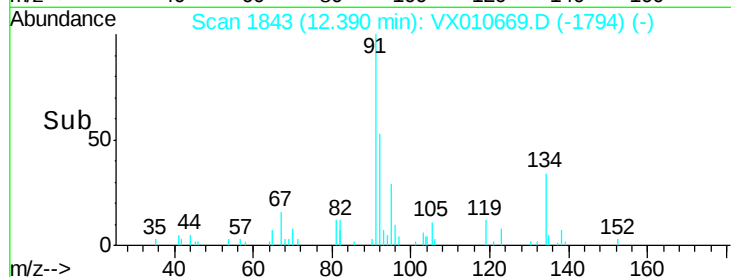
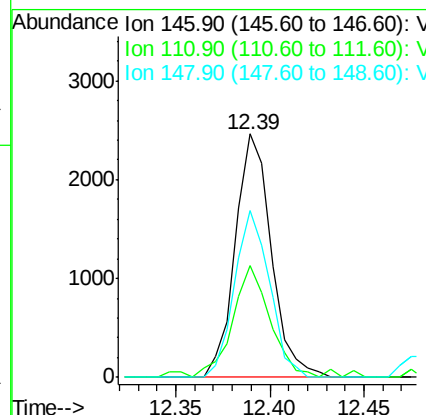
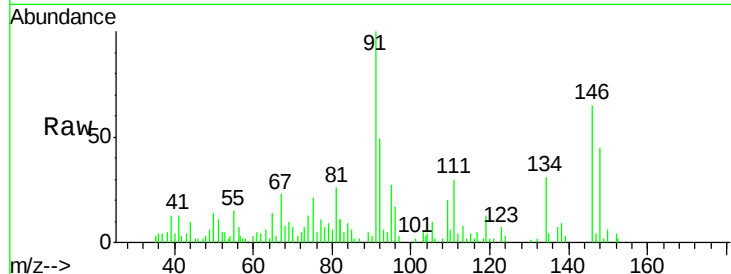
#91  
1,2-Dichlorobenzene  
Concen: 0.642 ug/l  
RT: 12.39 min Scan# 1843  
Delta R.T. 0.00 min  
Lab File: VX010669.D  
Acq: 04 Jul 2019 05:54

Instrument :  
MSVOA\_X  
ClientSampleId :  
SS037MW266-190701

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 48.9  | 19.2  | 57.6  |
| 148     | 66.5  | 32.0  | 96.0  |

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#95  
Naphthalene  
Concen: 0.437 ug/l  
RT: 13.83 min Scan# 2080  
Delta R.T. 0.00 min  
Lab File: VX010669.D  
Acq: 04 Jul 2019 05:54

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 127     | 13.9  | 10.2  | 15.4  |
| 129     | 15.1  | 8.9   | 13.3# |

