

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN070218\  
 Data File : VN049666.D  
 Acq On : 2 Jul 2018 13:52  
 Operator : MD\SY  
 Sample : J3752-05  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 DUP-1

Quant Time: Jul 03 12:23:20 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N062918W.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Jun 30 00:55:30 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.67  | 168  | 1375085  | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.59  | 114  | 2190576  | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.41 | 117  | 1855625  | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.35 | 152  | 708152   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 8.03  | 65   | 915747   | 50.43 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 100.86% |          |
| 35) Dibromofluoromethane    | 7.59  | 113  | 802554   | 49.01 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 98.02%  |          |
| 50) Toluene-d8              | 10.09 | 98   | 2996246  | 46.74 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 93.48%  |          |
| 62) 4-Bromofluorobenzene    | 12.40 | 95   | 875943   | 40.02 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 80.04%  |          |

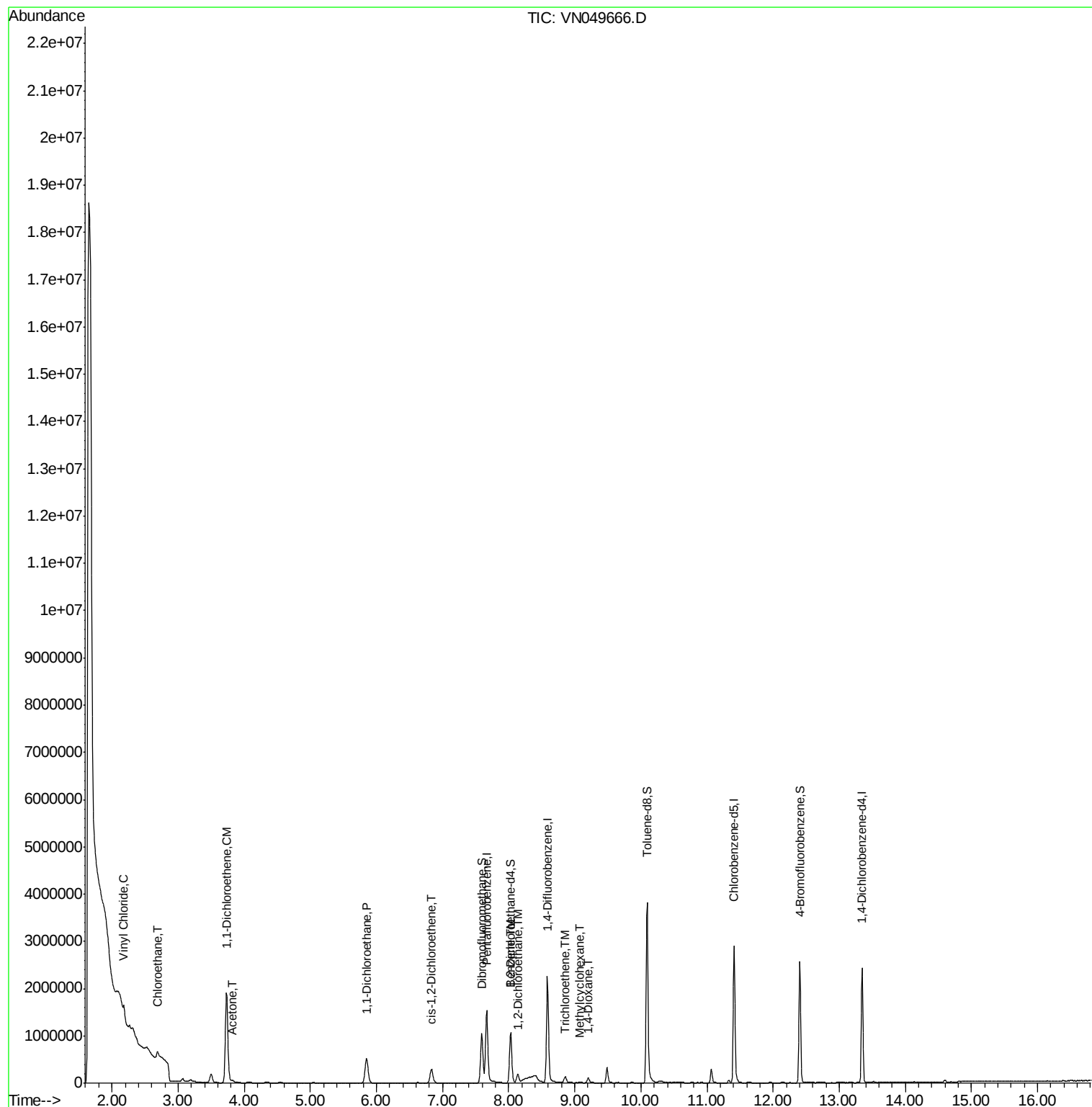
| Target Compounds           | R.T. | QIon | Response | Conc   | Units | Qvalue |
|----------------------------|------|------|----------|--------|-------|--------|
| 4) Vinyl Chloride          | 2.18 | 62   | 191206   | 9.20   | ug/l  | 98     |
| 6) Chloroethane            | 2.70 | 64   | 12388    | 0.94   | ug/l  | # 87   |
| 12) 1,1-Dichloroethene     | 3.73 | 96   | 1106097  | 68.49  | ug/l  | 99     |
| 16) Acetone                | 3.82 | 43   | 57560    | 8.05   | ug/l  | 96     |
| 24) 1,1-Dichloroethane     | 5.85 | 63   | 819404   | 25.91  | ug/l  | 99     |
| 27) cis-1,2-Dichloroethene | 6.83 | 96   | 213169   | 11.48  | ug/l  | 88     |
| 39) Methylcyclohexane      | 9.08 | 83   | 6598     | 0.24   | ug/l  | 91     |
| 40) Benzene                | 8.04 | 78   | 36757    | 0.49   | ug/l  | 97     |
| 42) 1,2-Dichloroethane     | 8.13 | 62   | 51185    | 2.13   | ug/l  | 100    |
| 44) Trichloroethene        | 8.84 | 130  | 16760    | 0.74   | ug/l  | 89     |
| 49) 1,4-Dioxane            | 9.20 | 88   | 92709    | 539.85 | ug/l  | 94     |

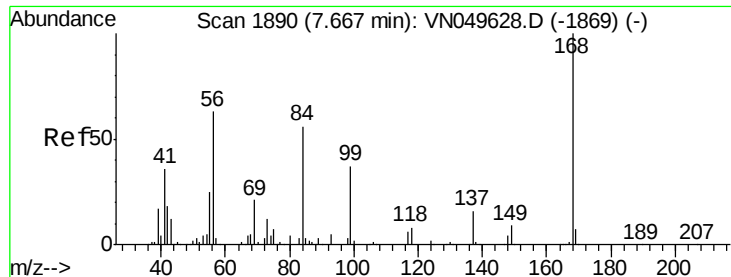
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Instrument :  
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ClientSampleId :  
DUP-1

Quant Time: Jul 03 12:23:20 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_N\METHODS\82N062918W.M  
Quant Title : SW846 8260  
QLast Update : Sat Jun 30 00:55:30 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. -0.00 min

Lab File: VN049666.D

Acq: 2 Jul 2018 13:52

Instrument :

MSVOA\_N

ClientSampleId :

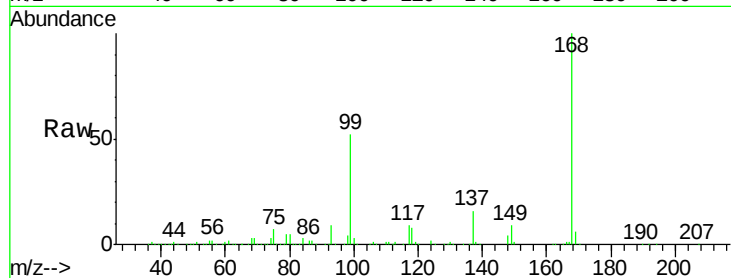
DUP-1

Tot Ion:168 Resp: 1375085

Ion Ratio Lower Upper

168 100

99 51.7 40.6 61.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.67

600000

500000

400000

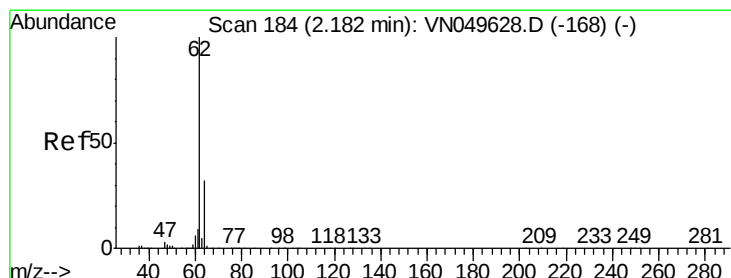
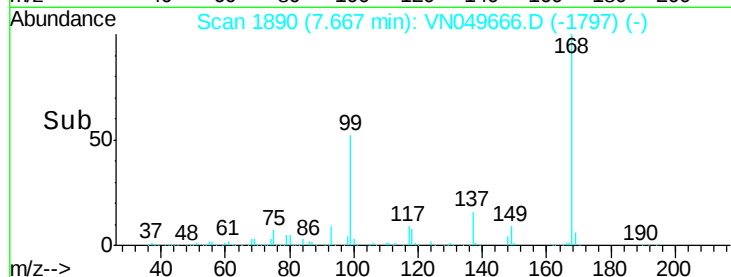
300000

200000

100000

0

Time-->



#4

Vinyl Chloride

Concen: 9.20 ug/l

RT: 2.18 min Scan# 184

Delta R.T. -0.00 min

Lab File: VN049666.D

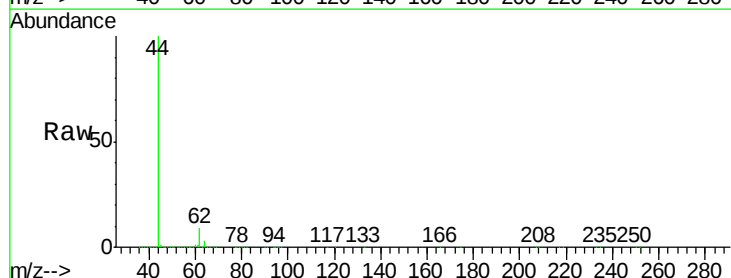
Acq: 2 Jul 2018 13:52

Tgt Ion: 62 Resp: 191206

Ion Ratio Lower Upper

62 100

64 32.7 25.4 38.0



Abundance Ion 61.90 (61.60 to 62.60): VNO

Ion 63.90 (63.60 to 64.60): VNO

2.18

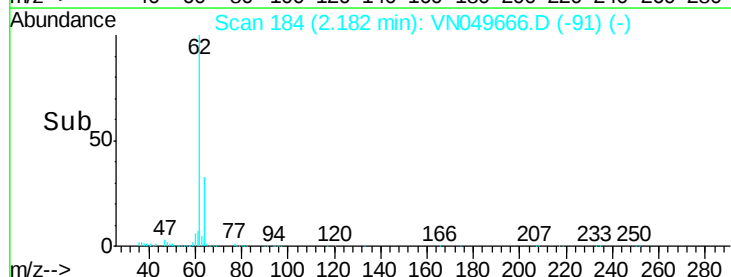
150000

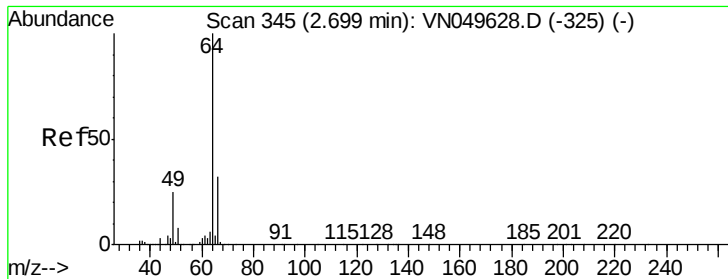
100000

50000

0

Time-->





#6

Chloroethane

Concen: 0.94 ug/l

RT: 2.70 min Scan# 344

Delta R.T. -0.00 min

Lab File: VN049666.D

Acq: 2 Jul 2018 13:52

Instrument :

MSVOA\_N

ClientSampleId :

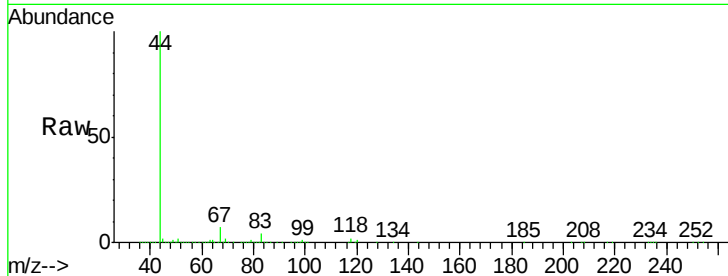
DUP-1

Tot Ion: 64 Resp: 12388

Ion Ratio Lower Upper

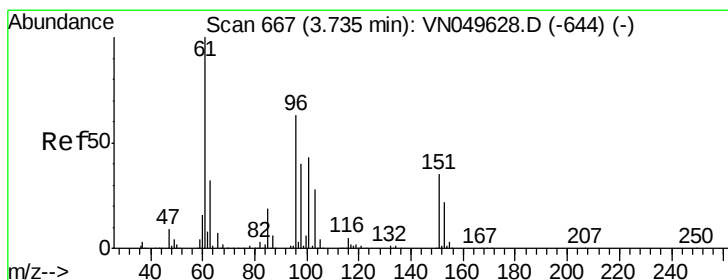
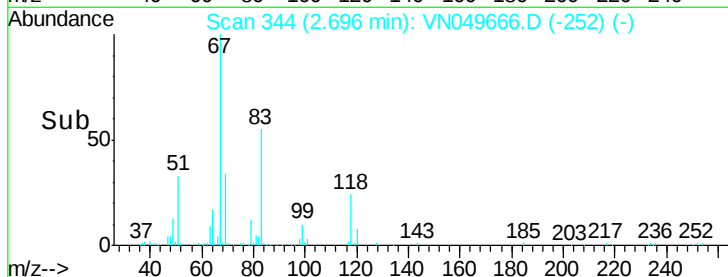
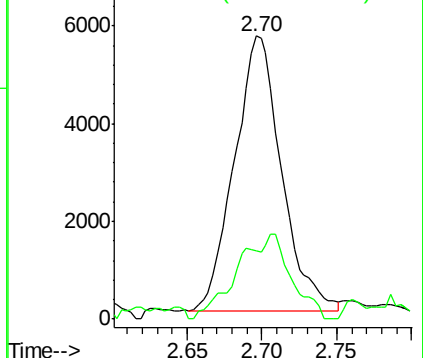
64 100

66 24.7 25.6 38.4#



Abundance Ion 63.90 (63.60 to 64.60): VN0

Ion 65.90 (65.60 to 66.60): VN0



#12

1,1-Dichloroethene

Concen: 68.49 ug/l

RT: 3.73 min Scan# 666

Delta R.T. -0.00 min

Lab File: VN049666.D

Acq: 2 Jul 2018 13:52

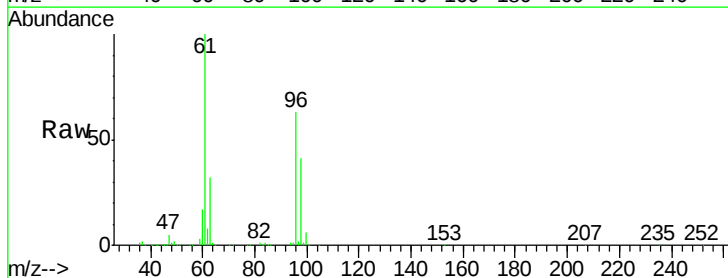
Tgt Ion: 96 Resp: 1106097

Ion Ratio Lower Upper

96 100

61 159.2 126.5 189.7

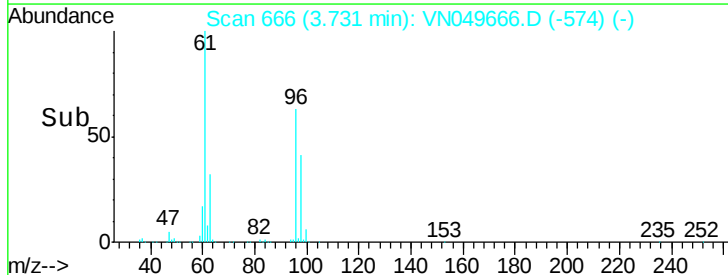
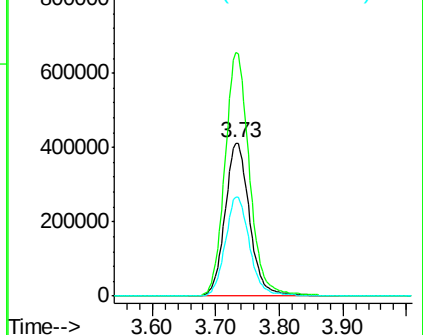
98 65.0 51.0 76.6

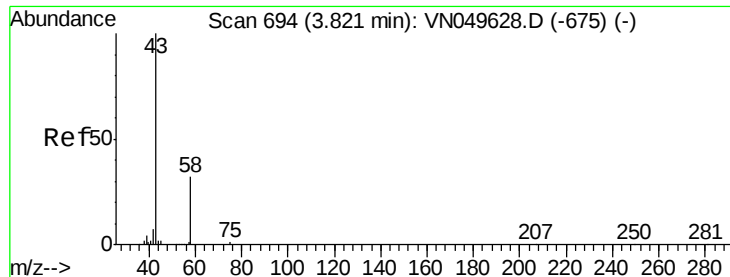


Abundance Ion 95.90 (95.60 to 96.60): VN0

Ion 60.90 (60.60 to 61.60): VN0

Ion 97.90 (97.60 to 98.60): VN0





#16

Acetone

Concen: 8.05 ug/l

RT: 3.82 min Scan# 695

Delta R.T. 0.00 min

Lab File: VN049666.D

Acq: 2 Jul 2018 13:52

Instrument :

MSVOA\_N

ClientSampleId :

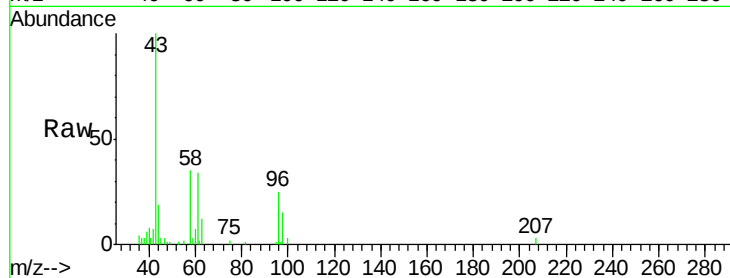
DUP-1

Tot Ion: 43 Resp: 57560

Ion Ratio Lower Upper

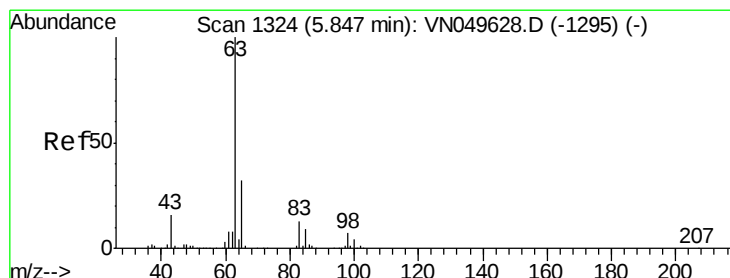
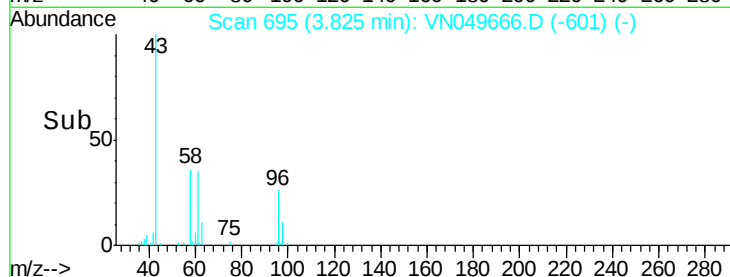
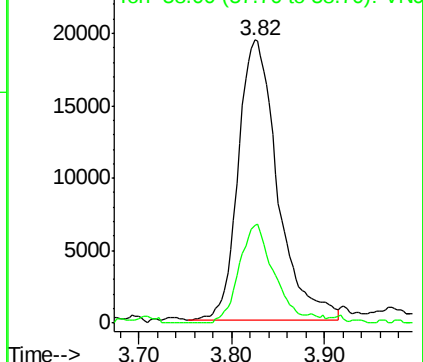
43 100

58 34.9 25.9 38.9



Abundance Ion 43.00 (42.70 to 43.70): VN049628.D (-675) (-)

Ion 58.00 (57.70 to 58.70): VN049628.D (-675) (-)



#24

1,1-Dichloroethane

Concen: 25.91 ug/l

RT: 5.85 min Scan# 1325

Delta R.T. 0.00 min

Lab File: VN049666.D

Acq: 2 Jul 2018 13:52

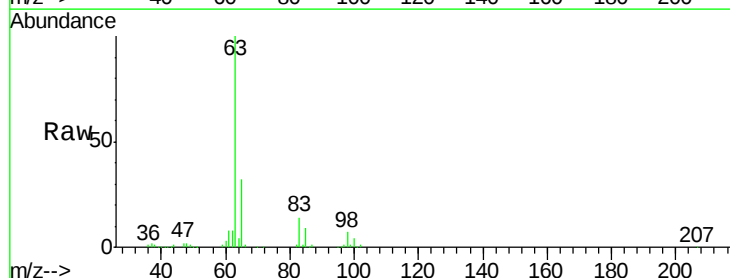
Tgt Ion: 63 Resp: 819404

Ion Ratio Lower Upper

63 100

98 6.5 3.4 10.2

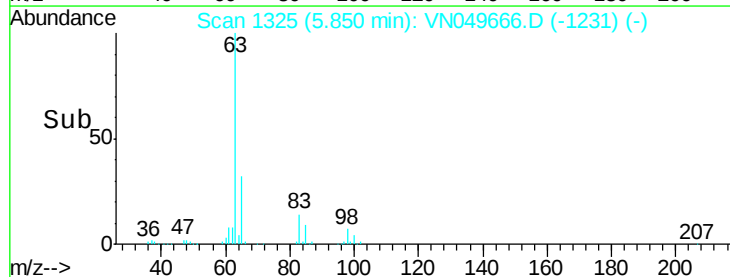
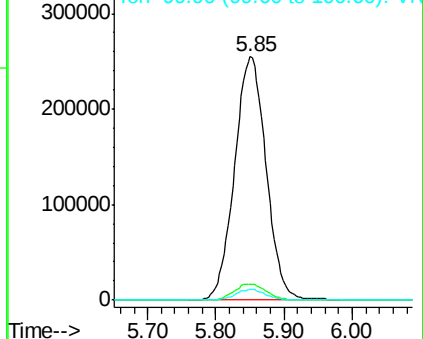
100 4.4 2.2 6.6

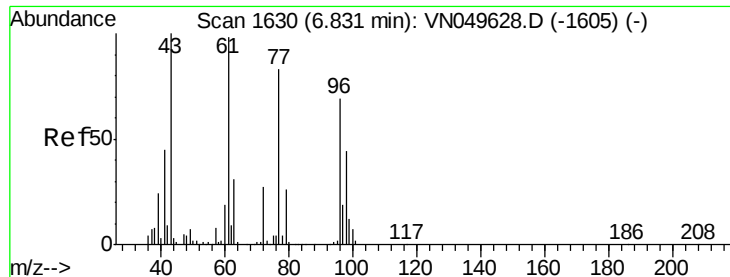


Abundance Ion 62.90 (62.60 to 63.60): VN049628.D (-1295) (-)

Ion 97.90 (97.60 to 98.60): VN049628.D (-1295) (-)

Ion 99.90 (99.60 to 100.60): VN049628.D (-1295) (-)

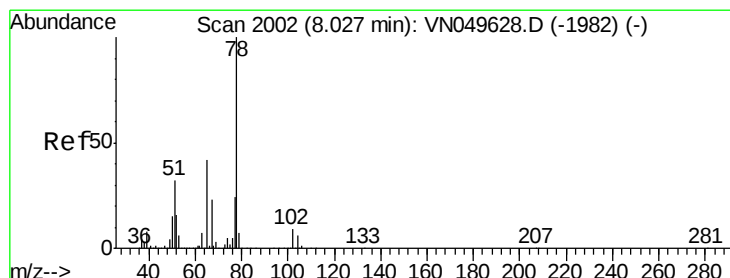
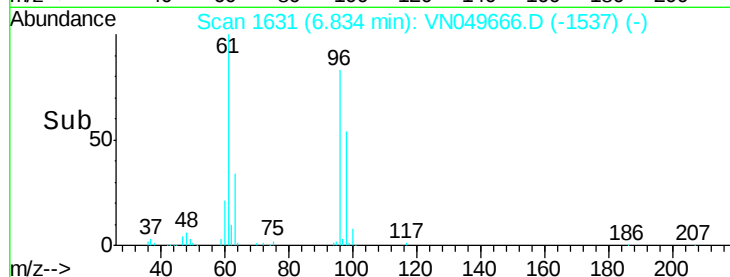
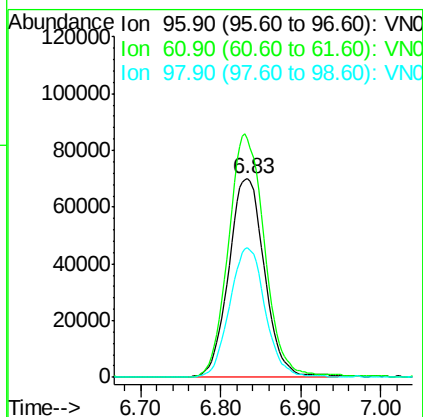
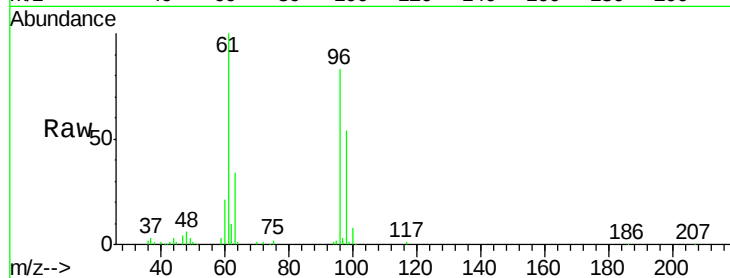




#27  
 cis-1,2-Dichloroethene  
 Concen: 11.48 ug/l  
 RT: 6.83 min Scan# 1631  
 Delta R.T. 0.00 min  
 Lab File: VN049666.D  
 Acq: 2 Jul 2018 13:52

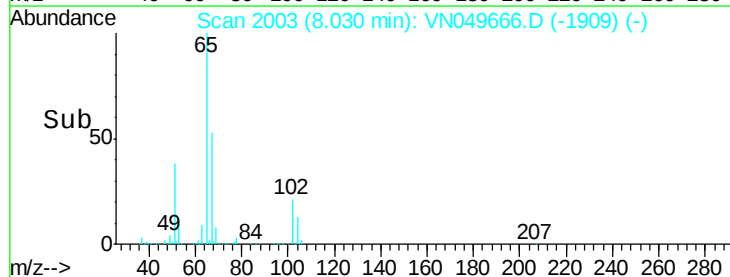
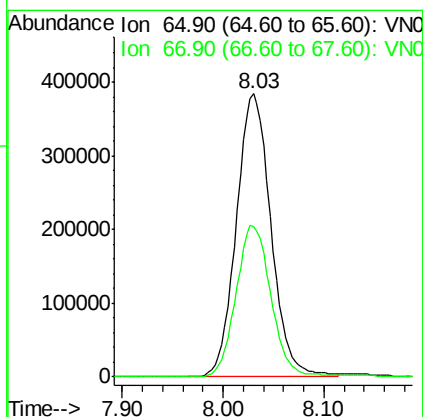
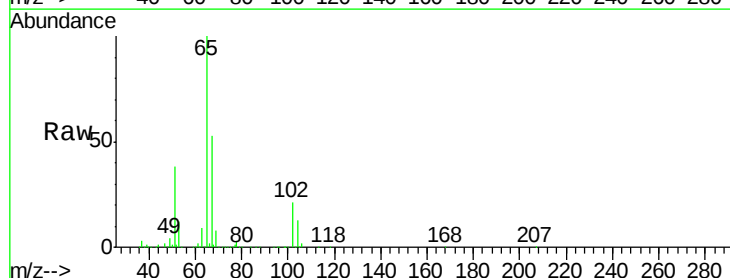
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 DUP-1

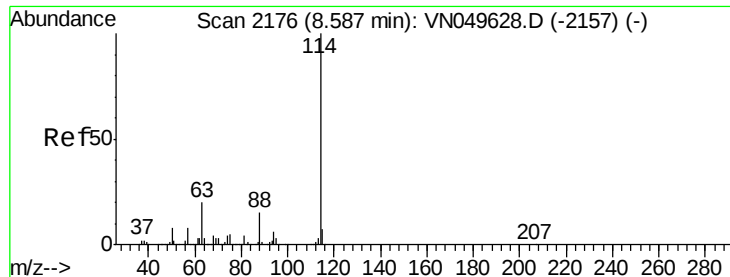
Tot Ion: 96 Resp: 213169  
 Ion Ratio Lower Upper  
 96 100  
 61 123.2 0.0 289.0  
 98 64.2 0.0 130.2



#33  
 1,2-Dichloroethane-d4  
 Concen: 50.43 ug/l  
 RT: 8.03 min Scan# 2003  
 Delta R.T. 0.00 min  
 Lab File: VN049666.D  
 Acq: 2 Jul 2018 13:52

Tgt Ion: 65 Resp: 915747  
 Ion Ratio Lower Upper  
 65 100  
 67 54.6 0.0 107.2

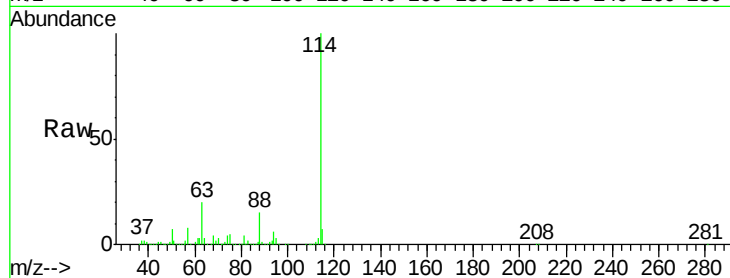




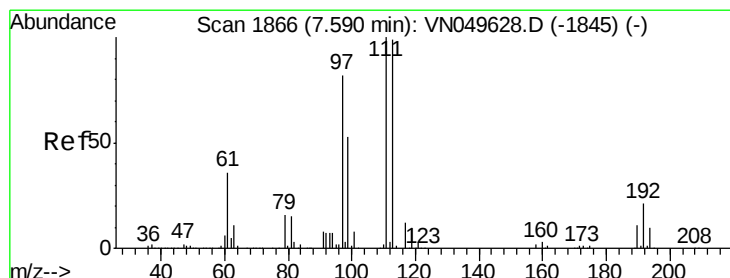
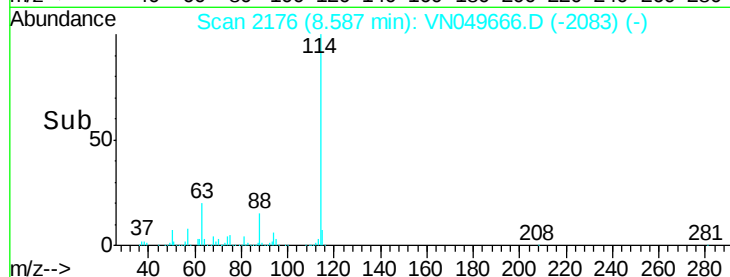
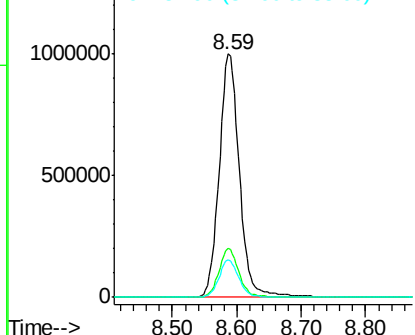
#34  
 1,4-Difluorobenzene  
 Concen: 50.00 ug/l  
 RT: 8.59 min Scan# 2176  
 Delta R.T. -0.00 min  
 Lab File: VN049666.D  
 Acq: 2 Jul 2018 13:52

Instrument :  
 MSVOA\_N  
 ClientSampled :  
 DUP-1

Tot Ion:114 Resp: 2190576  
 Ion Ratio Lower Upper  
 114 100  
 63 19.9 0.0 39.8  
 88 15.4 0.0 30.6

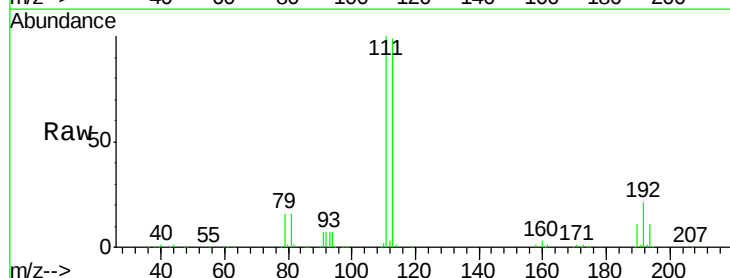


Abundance Ion 113.90 (113.60 to 114.60): V  
 Ion 63.00 (62.70 to 63.70): V  
 Ion 87.90 (87.60 to 88.60): V

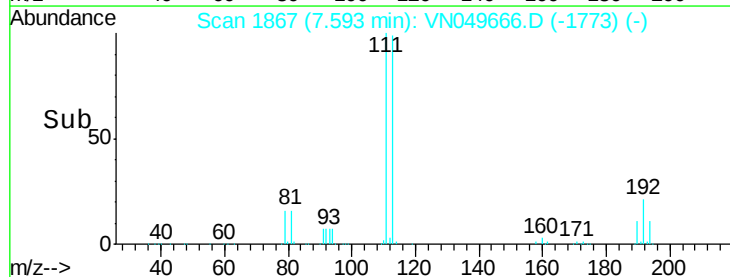
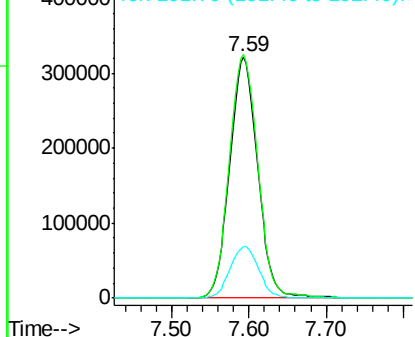


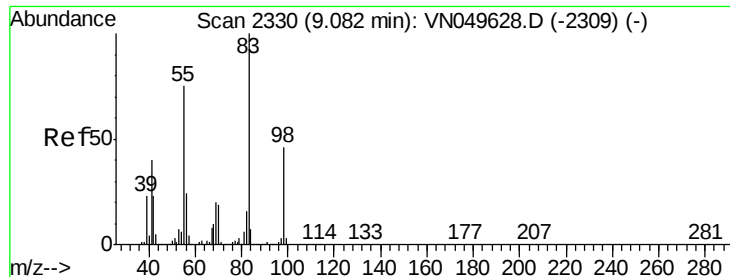
#35  
 Dibromofluoromethane  
 Concen: 49.01 ug/l  
 RT: 7.59 min Scan# 1867  
 Delta R.T. 0.00 min  
 Lab File: VN049666.D  
 Acq: 2 Jul 2018 13:52

Tgt Ion:113 Resp: 802554  
 Ion Ratio Lower Upper  
 113 100  
 111 102.1 81.8 122.8  
 192 22.0 17.8 26.6



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

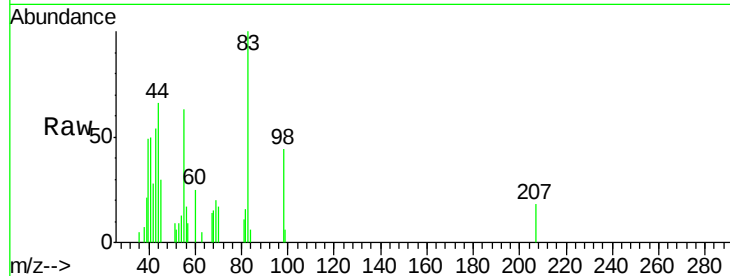




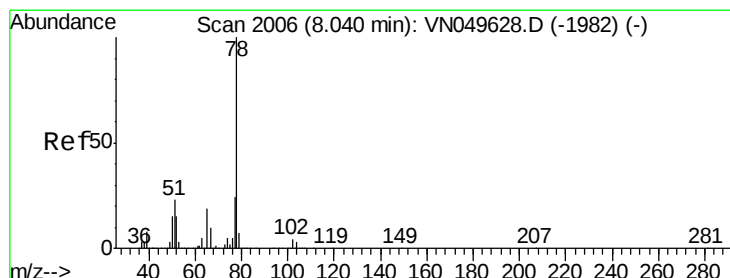
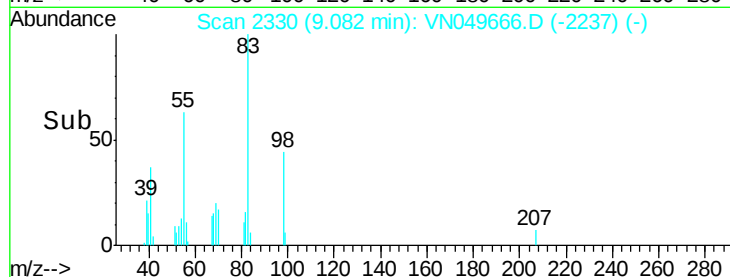
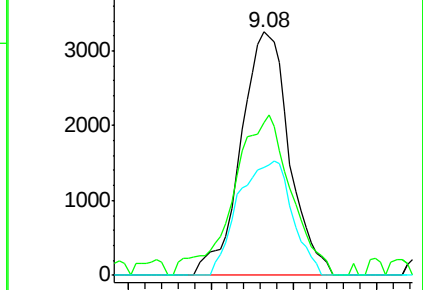
#39  
Methvlcvclohexane  
Concen: 0.24 ug/l  
RT: 9.08 min Scan# 2330  
Delta R.T. -0.00 min  
Lab File: VN049666.D  
Acq: 2 Jul 2018 13:52

Instrument :  
MSVOA\_N  
ClientSampleId :  
DUP-1

Tot Ion: 83 Resp: 6598  
Ion Ratio Lower Upper  
83 100  
55 62.8 59.7 89.5  
98 44.3 36.5 54.7

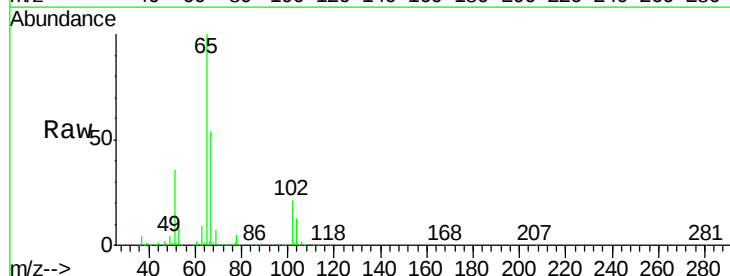


Abundance Ion 83.00 (82.70 to 83.70): VN049628.D (-2309) (-)  
Ion 55.00 (54.70 to 55.70): VN049628.D (-2309) (-)  
Ion 98.00 (97.70 to 98.70): VN049628.D (-2309) (-)

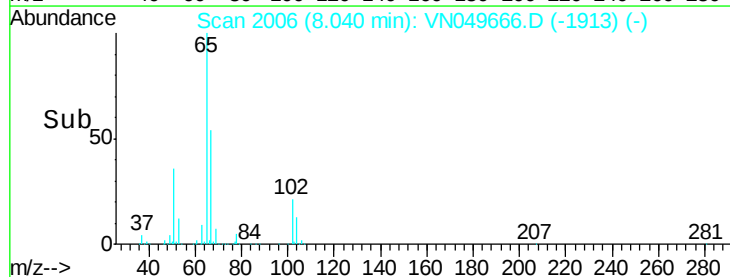
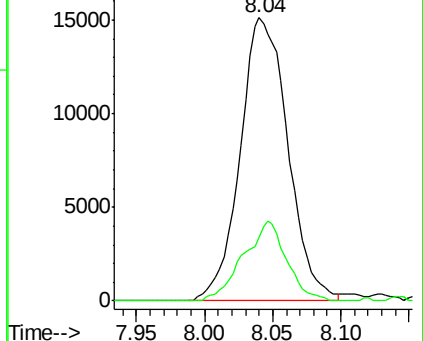


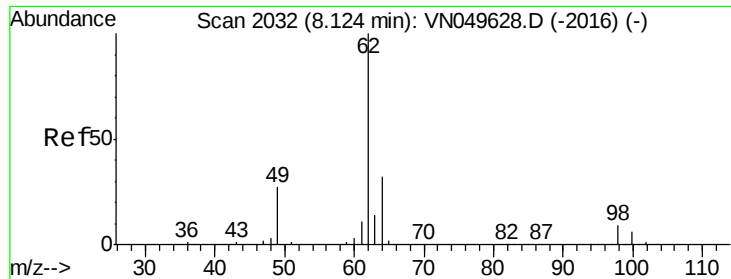
#40  
Benzene  
Concen: 0.49 ug/l  
RT: 8.04 min Scan# 2006  
Delta R.T. -0.00 min  
Lab File: VN049666.D  
Acq: 2 Jul 2018 13:52

Tgt Ion: 78 Resp: 36757  
Ion Ratio Lower Upper  
78 100  
77 22.2 19.0 28.4



Abundance Ion 78.00 (77.70 to 78.70): VN049628.D (-1982) (-)  
Ion 77.00 (76.70 to 77.70): VN049628.D (-1982) (-)





#42

1,2-Dichloroethane

Concen: 2.13 ug/l

RT: 8.13 min Scan# 2033

Delta R.T. 0.00 min

Lab File: VN049666.D

Acq: 2 Jul 2018 13:52

Instrument :

MSVOA\_N

ClientSampleId :

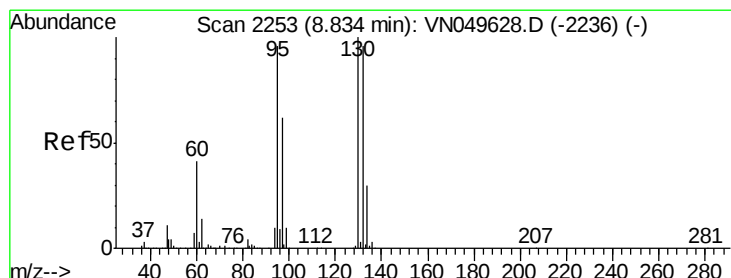
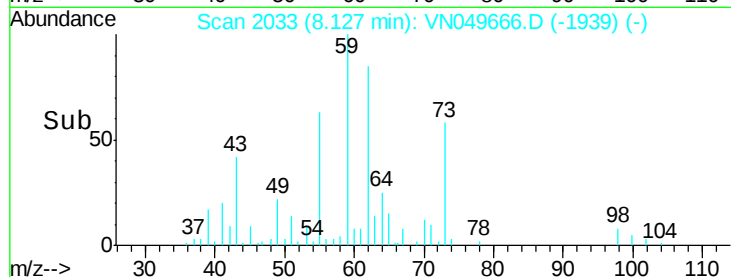
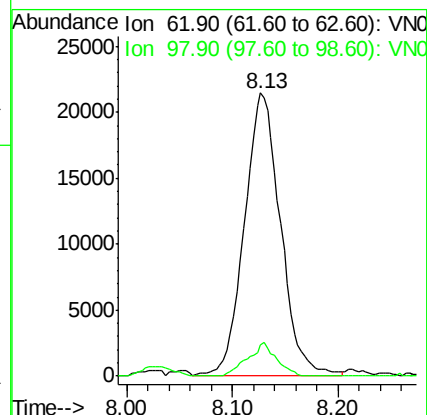
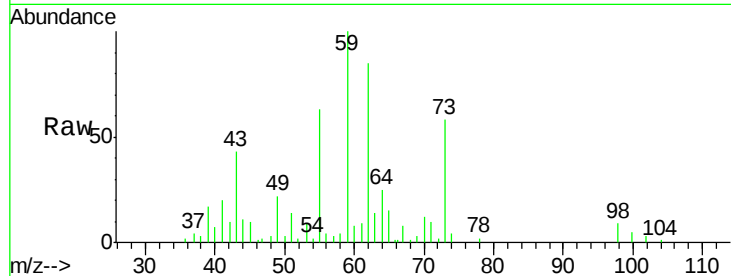
DUP-1

Tot Ion: 62 Resp: 51185

Ion Ratio Lower Upper

62 100

98 9.3 0.0 19.0



#44

Trichloroethene

Concen: 0.74 ug/l

RT: 8.84 min Scan# 2254

Delta R.T. 0.00 min

Lab File: VN049666.D

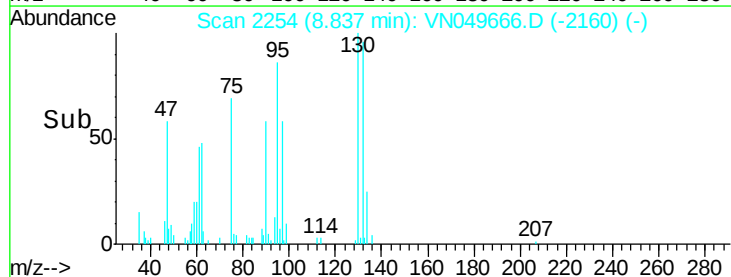
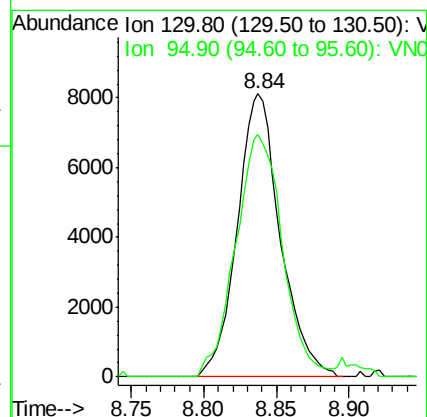
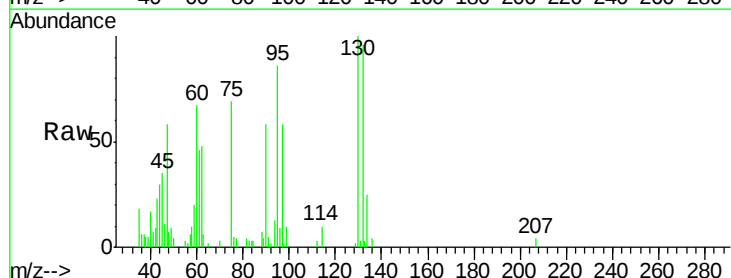
Acq: 2 Jul 2018 13:52

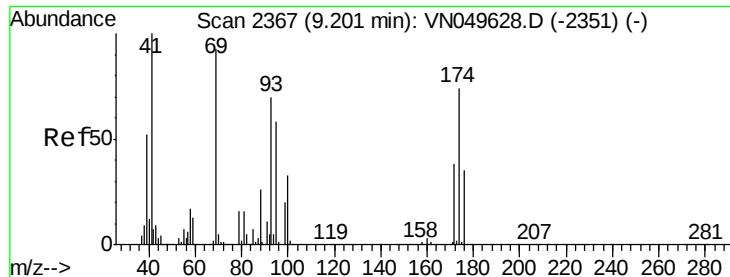
Tgt Ion:130 Resp: 16760

Ion Ratio Lower Upper

130 100

95 85.8 0.0 192.8

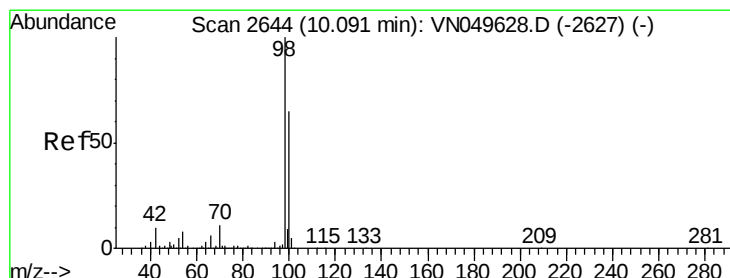
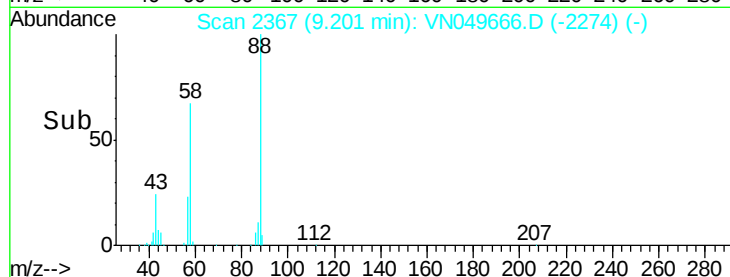
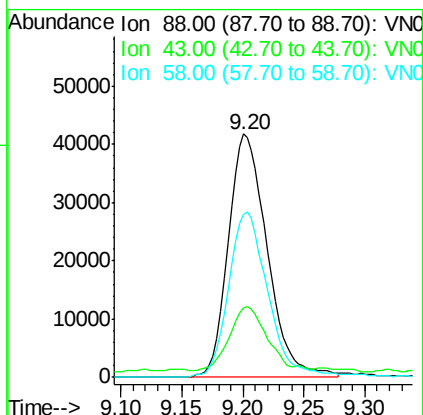
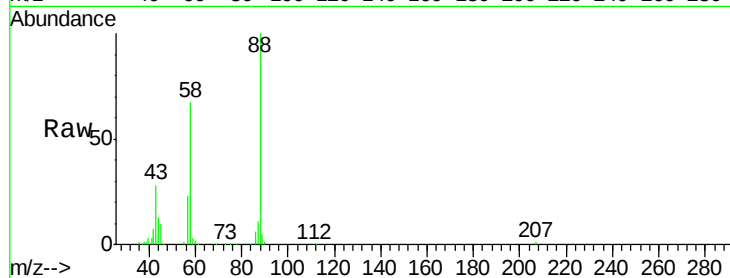




#49  
 1,4-Dioxane  
 Concen: 539.85 ug/l  
 RT: 9.20 min Scan# 2367  
 Delta R.T. -0.00 min  
 Lab File: VN049666.D  
 Acq: 2 Jul 2018 13:52

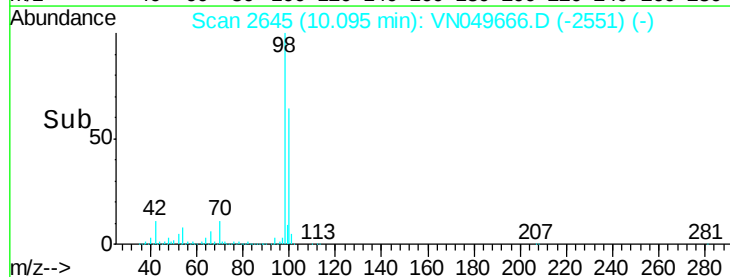
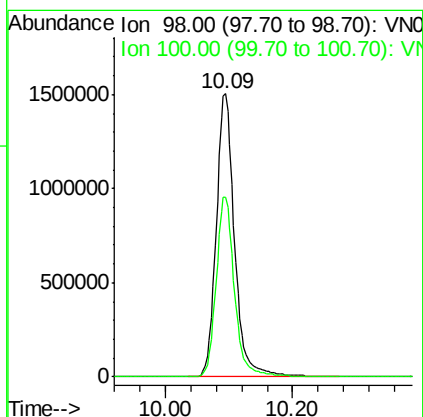
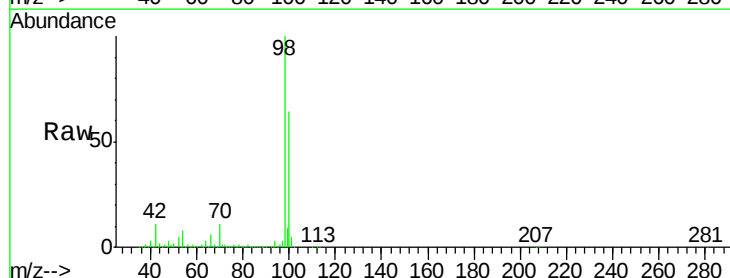
Instrument :  
 MSVOA\_N  
 ClientSampled :  
 DUP-1

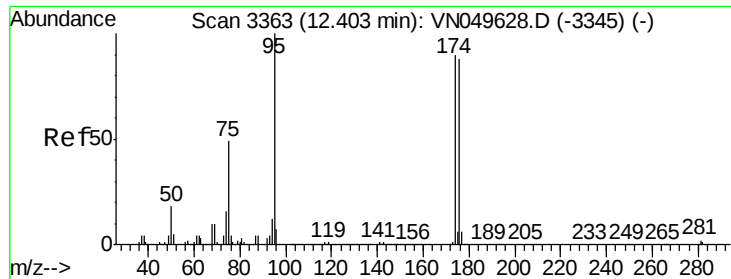
Tot Ion: 88 Resp: 92709  
 Ion Ratio Lower Upper  
 88 100  
 43 25.3 25.1 37.7  
 58 68.9 52.5 78.7



#50  
 Toluene-d8  
 Concen: 46.74 ug/l  
 RT: 10.09 min Scan# 2645  
 Delta R.T. 0.00 min  
 Lab File: VN049666.D  
 Acq: 2 Jul 2018 13:52

Tgt Ion: 98 Resp: 2996246  
 Ion Ratio Lower Upper  
 98 100  
 100 63.7 51.7 77.5

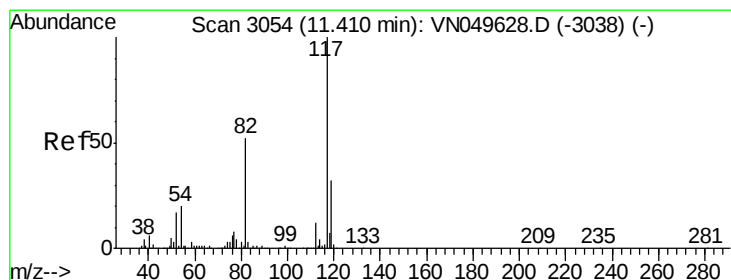
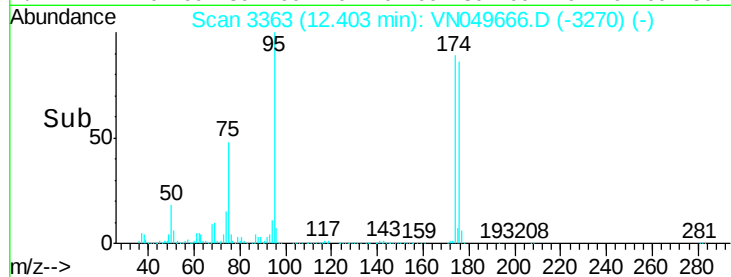
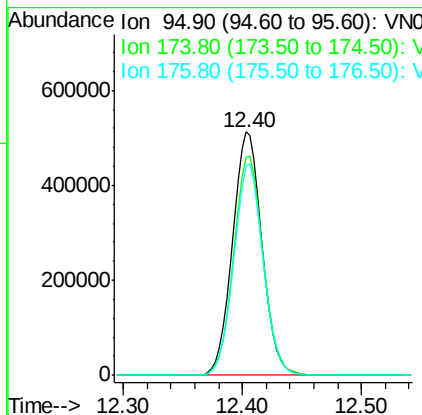
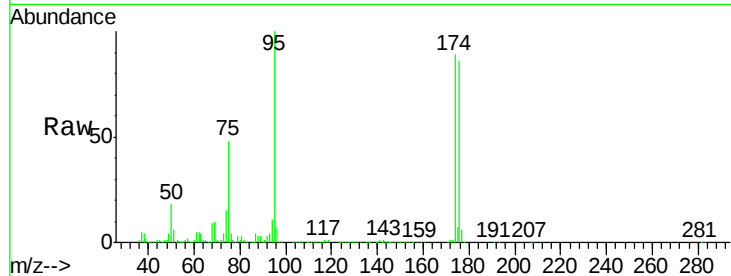




#62  
4-Bromofluorobenzene  
Concen: 40.02 ug/l  
RT: 12.40 min Scan# 3363  
Delta R.T. -0.00 min  
Lab File: VN049666.D  
Acq: 2 Jul 2018 13:52

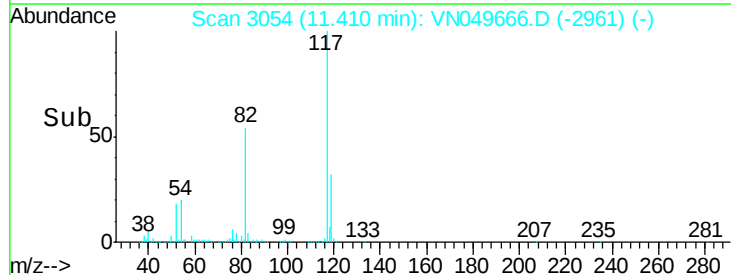
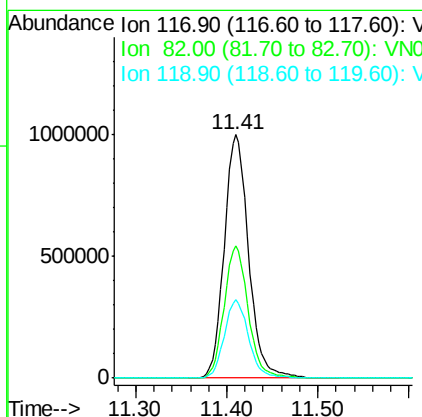
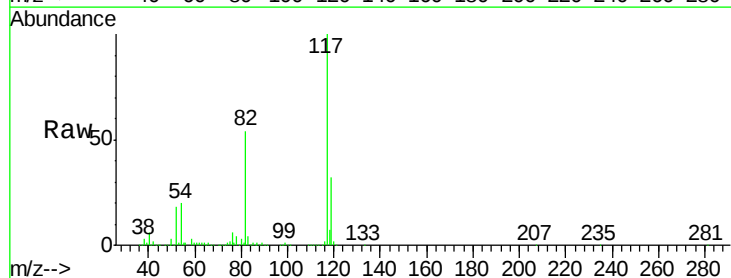
Instrument :  
MSVOA\_N  
ClientSampleId :  
DUP-1

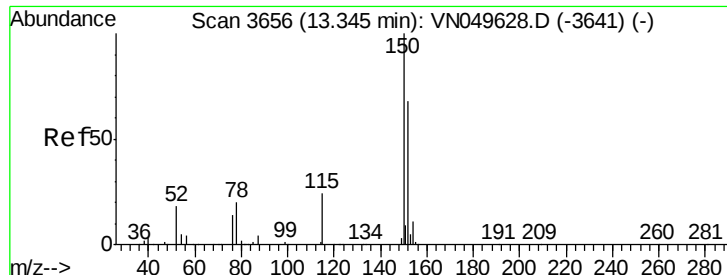
Tot Ion: 95 Resp: 875943  
Ion Ratio Lower Upper  
95 100  
174 90.6 0.0 179.6  
176 86.3 0.0 174.0



#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 11.41 min Scan# 3054  
Delta R.T. -0.00 min  
Lab File: VN049666.D  
Acq: 2 Jul 2018 13:52

Tgt Ion: 117 Resp: 1855625  
Ion Ratio Lower Upper  
117 100  
82 54.3 41.9 62.9  
119 32.0 25.4 38.2





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.35 min Scan# 3657

Delta R.T. 0.00 min

Lab File: VN049666.D

Acq: 2 Jul 2018 13:52

Instrument :

MSVOA\_N

ClientSampleId :

DUP-1

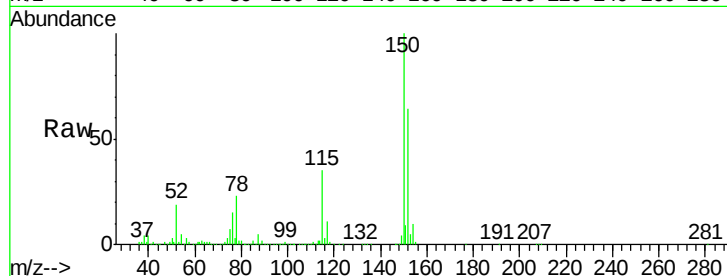
Tot Ion:152 Resp: 708152

Ion Ratio Lower Upper

152 100

115 55.9 28.1 84.2

150 156.0 0.0 347.6



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

