

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN032119\  
 Data File : VN054532.D  
 Acq On : 22 Mar 2019 1:48  
 Operator : JC/SP  
 Sample : PB118113TB  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 31 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 PB118113TB

Quant Time: Mar 22 10:19:59 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N032019W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Mar 22 02:09:07 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.67  | 168  | 646274   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.59  | 114  | 1026521  | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.41 | 117  | 842966   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.35 | 152  | 310323   | 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   | 414300   | 51.54 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 103.08% |          |
| 35) Dibromofluoromethane    | 7.59  | 113  | 324442   | 49.06 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 98.12%  |          |
| 50) Toluene-d8              | 10.09 | 98   | 1210826  | 48.70 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 97.40%  |          |
| 62) 4-Bromofluorobenzene    | 12.40 | 95   | 367197   | 43.40 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 86.80%  |          |

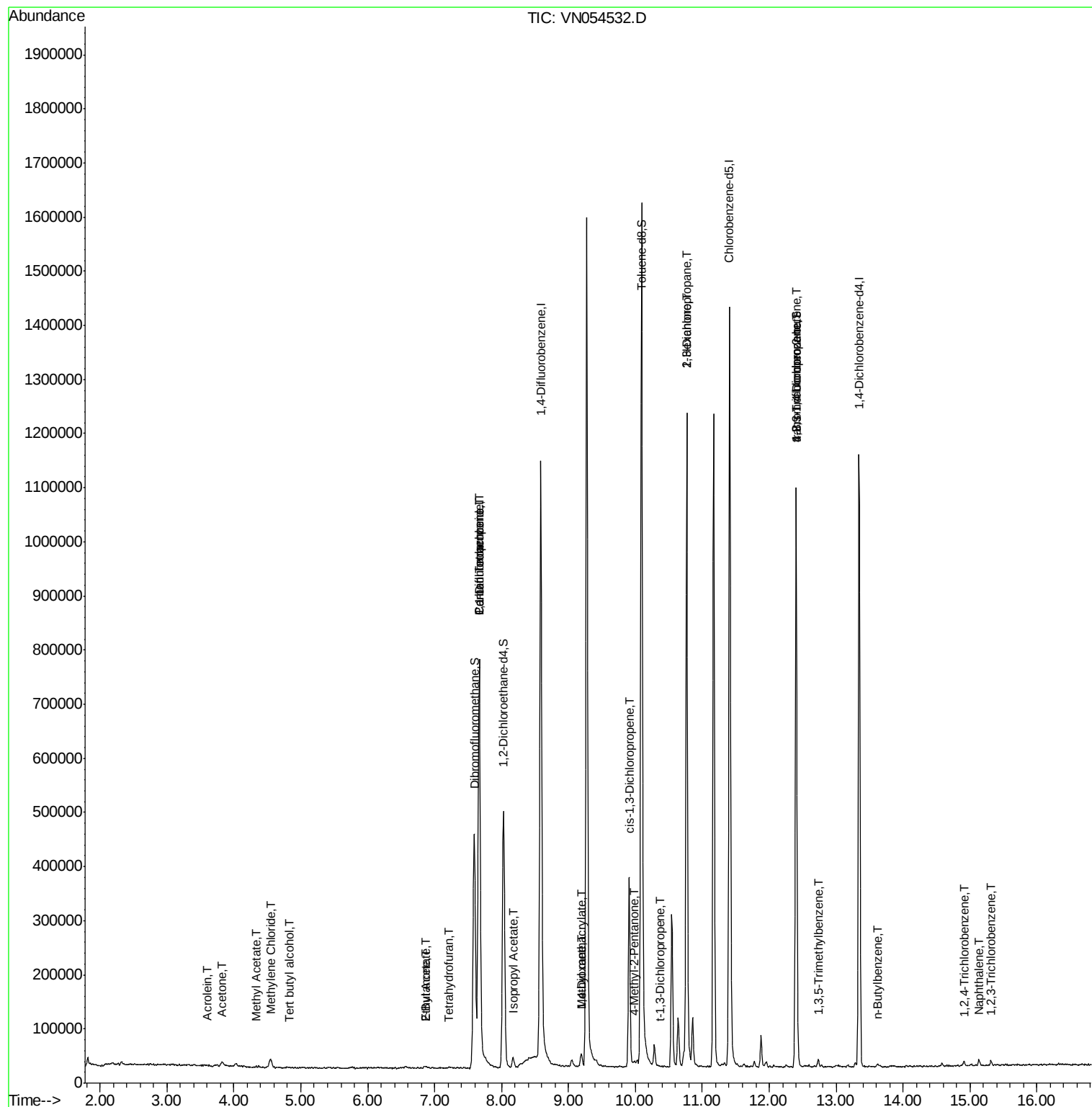
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 11) Tert butyl alcohol         | 4.82  | 59   | 530      | 1.089     | ug/l # | 70     |
| 13) Acrolein                   | 3.61  | 56   | 490      | 0.730     | ug/l # | 70     |
| 16) Acetone                    | 3.82  | 43   | 12235    | 5.062     | ug/l   | 94     |
| 18) Methyl Acetate             | 4.33  | 43   | 1274     | 0.237     | ug/l # | 65     |
| 20) Methylene Chloride         | 4.55  | 84   | 10931    | 1.534     | ug/l # | 84     |
| 25) 2-Butanone                 | 6.86  | 43   | 6368     | 2.057     | ug/l   | 91     |
| 29) Tetrahydrofuran            | 7.22  | 42   | 1141     | 0.568     | ug/l # | 81     |
| 31) Cyclohexane                | 7.66  | 56   | 12740    | Below Cal | #      | 12     |
| 36) 1,1-Dichloropropene        | 7.66  | 75   | 47668    | 4.966     | ug/l # | 48     |
| 37) Ethyl Acetate              | 6.86  | 43   | 6368     | 0.933     | ug/l # | 68     |
| 38) Carbon Tetrachloride       | 7.67  | 117  | 61292    | 6.571     | ug/l # | 15     |
| 43) Isopropyl Acetate          | 8.17  | 43   | 21936    | 1.903     | ug/l # | 95     |
| 48) Methyl methacrylate        | 9.18  | 41   | 8610     | 1.376     | ug/l # | 11     |
| 49) 1,4-Dioxane                | 9.20  | 88   | 82       | 1.172     | ug/l # | 1      |
| 51) 4-Methyl-2-Pentanone       | 9.99  | 43   | 8184     | 1.281     | ug/l   | 90     |
| 53) t-1,3-Dichloropropene      | 10.38 | 75   | 173      | 2.249     | ug/l # | 49     |
| 54) cis-1,3-Dichloropropene    | 9.90  | 75   | 61443    | 5.873     | ug/l # | 69     |
| 57) 1,3-Dichloropropane        | 10.76 | 76   | 12026    | 1.140     | ug/l # | 43     |
| 59) 2-Hexanone                 | 10.76 | 43   | 204576   | 49.018    | ug/l # | 48     |
| 76) 1,2,3-Trichloropropane     | 12.40 | 75   | 187889   | 38.155    | ug/l # | 100    |
| 80) 1,3,5-Trimethylbenzene     | 12.73 | 105  | 6955     | 0.339     | ug/l   | 92     |
| 81) trans-1,4-Dichloro-2-buten | 12.40 | 75   | 187889   | 126.362   | ug/l # | 11     |
| 89) n-Butylbenzene             | 13.62 | 91   | 3417     | 0.220     | ug/l   | 98     |
| 93) 1,2,4-Trichlorobenzene     | 14.91 | 180  | 2526     | 0.509     | ug/l   | 95     |
| 94) Hexachlorobutadiene        | 15.00 | 225  | 752      | Below Cal |        | 91     |
| 95) Naphthalene                | 15.13 | 128  | 9592     | 0.867     | ug/l # | 94     |
| 96) 1,2,3-Trichlorobenzene     | 15.32 | 180  | 3042     | 0.616     | ug/l   | 94     |

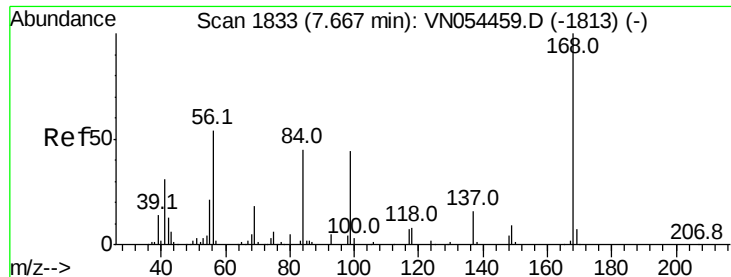
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN032119\  
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Quant Time: Mar 22 10:19:59 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_N\METHODS\82N032019W.M  
Quant Title : SW846 8260  
QLast Update : Fri Mar 22 02:09:07 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN054532.D

Acq: 22 Mar 2019 1:48

Instrument :

MSVOA\_N

ClientSampleId :

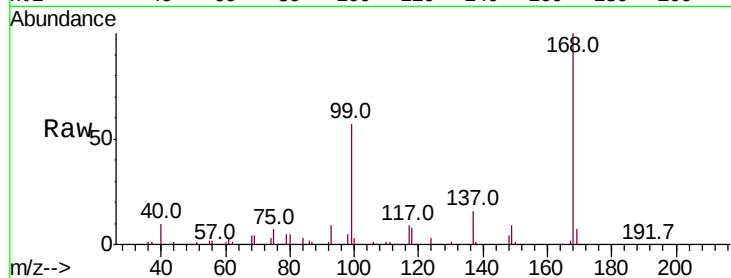
PB118113TB

Tot Ion:168 Resp: 646274

Ion Ratio Lower Upper

168 100

99 56.6 37.1 55.7#



Abundance Ion 167.90 (167.60 to 168.60): VN054459.D (-1813) (-)

Ion 98.90 (98.60 to 99.60): VN054459.D (-1813) (-)

7.67

250000

200000

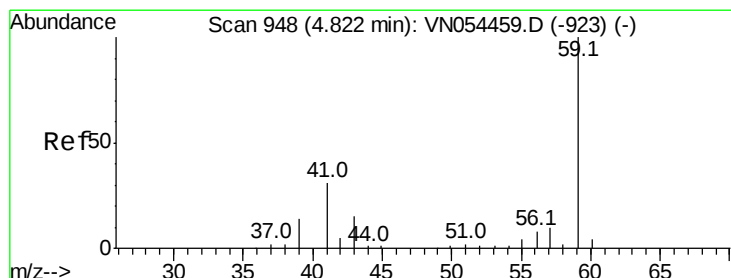
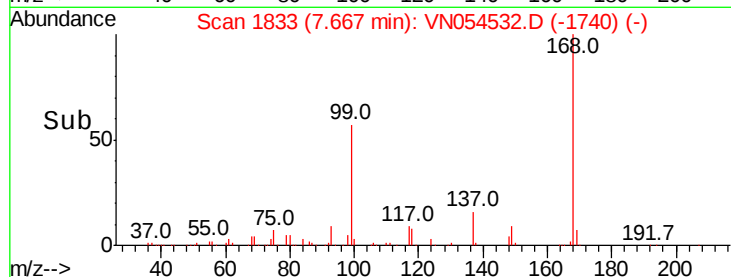
150000

100000

50000

0

Time-->



#11

Tert butyl alcohol

Concen: 1.089 ug/l

RT: 4.82 min Scan# 948

Delta R.T. 0.00 min

Lab File: VN054532.D

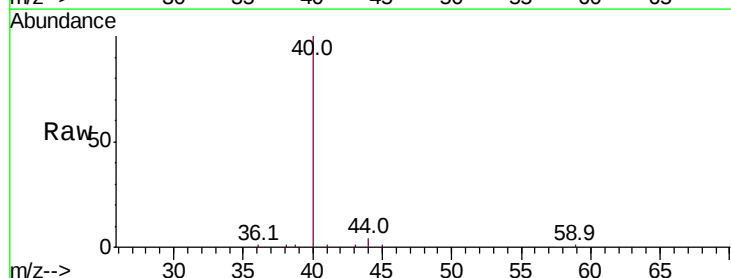
Acq: 22 Mar 2019 1:48

Tgt Ion: 59 Resp: 530

Ion Ratio Lower Upper

59 100

57 0.0 9.0 13.6#



Abundance Ion 59.00 (58.70 to 59.70): VN054459.D (-923) (-)

Ion 57.00 (56.70 to 57.70): VN054459.D (-923) (-)

4.82

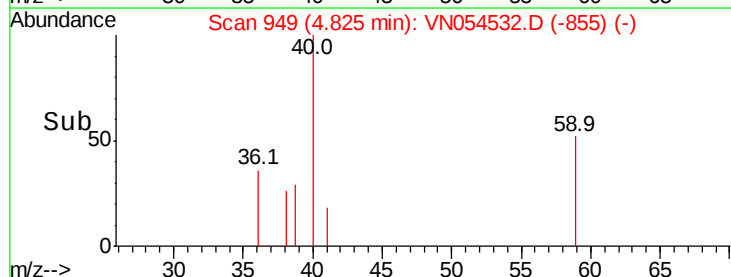
300

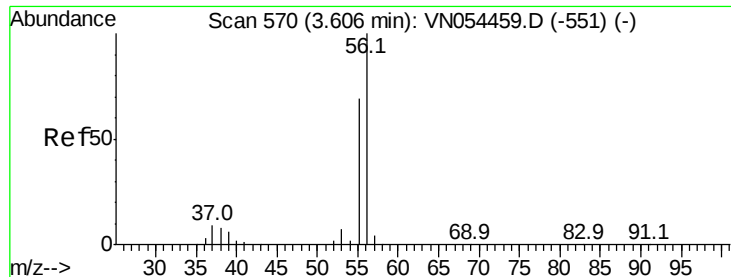
200

100

0

Time-->





#13

Acrolein

Concen: 0.730 ug/l

RT: 3.61 min Scan# 571

Delta R.T. 0.00 min

Lab File: VN054532.D

Acq: 22 Mar 2019 1:48

Instrument :

MSVOA\_N

ClientSampled :

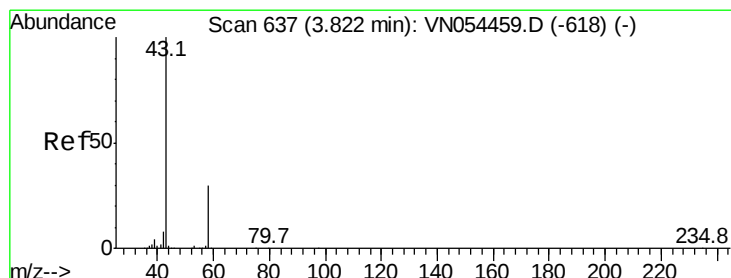
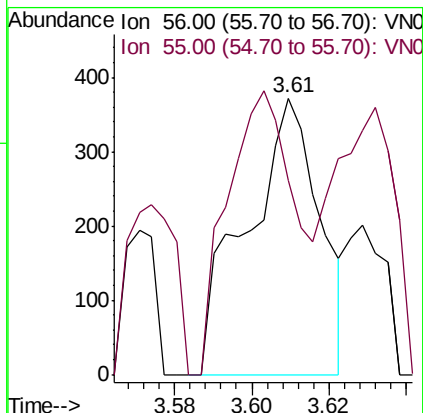
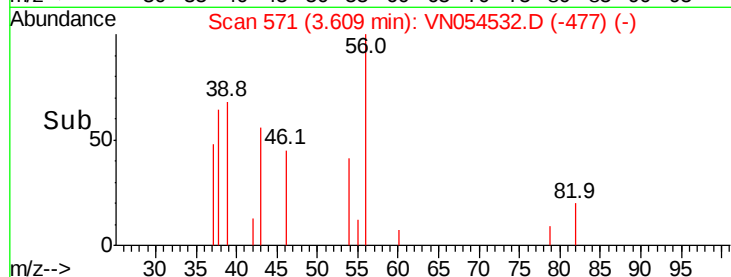
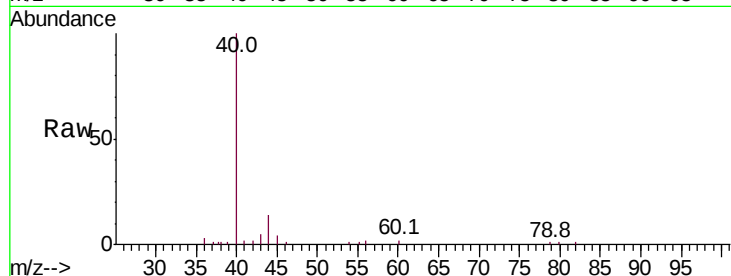
PB118113TB

Tot Ion: 56 Resp: 490

Ion Ratio Lower Upper

56 100

55 95.5 56.7 85.1#



#16

Acetone

Concen: 5.062 ug/l

RT: 3.82 min Scan# 638

Delta R.T. 0.00 min

Lab File: VN054532.D

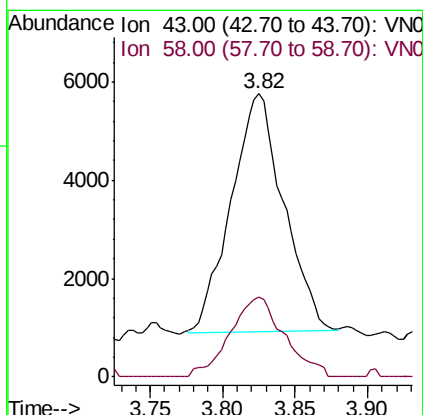
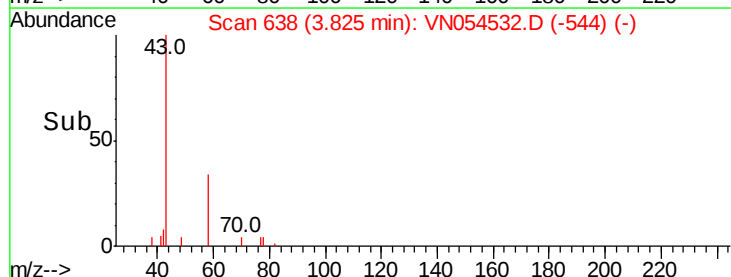
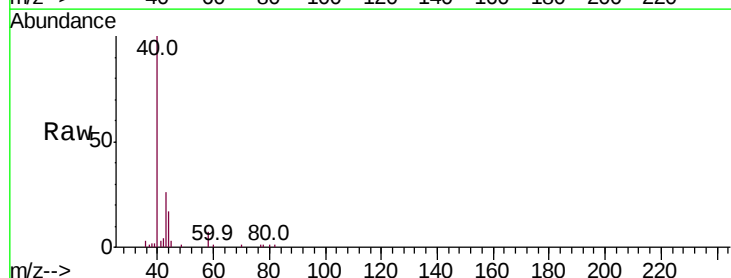
Acq: 22 Mar 2019 1:48

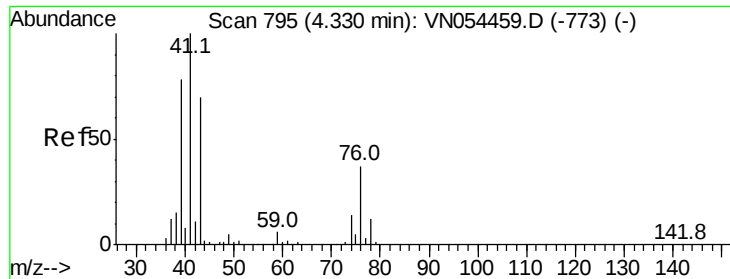
Tgt Ion: 43 Resp: 12235

Ion Ratio Lower Upper

43 100

58 33.7 29.9 44.9

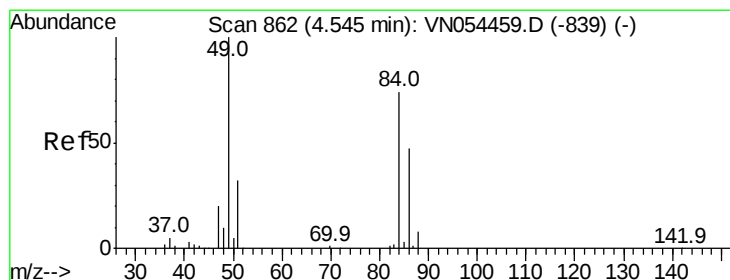
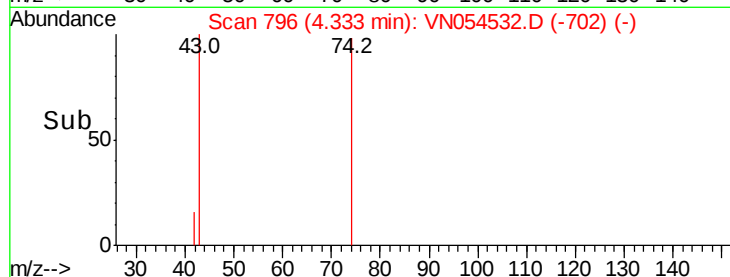
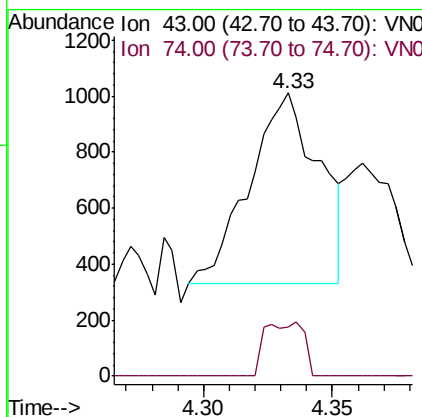
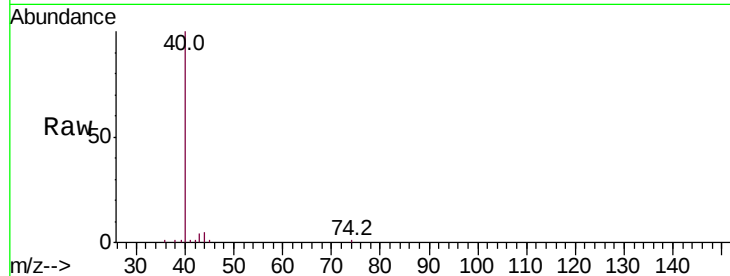




#18  
Methvl Acetate  
Concen: 0.237 ug/l  
RT: 4.33 min Scan# 796  
Delta R.T. 0.00 min  
Lab File: VN054532.D  
Acq: 22 Mar 2019 1:48

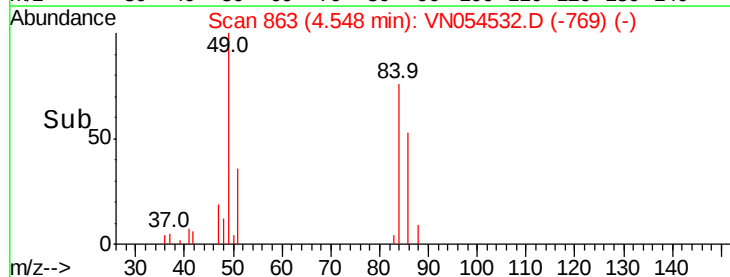
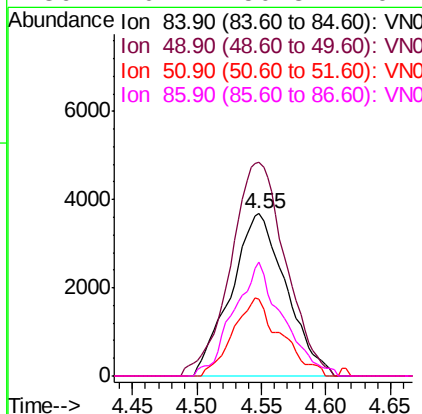
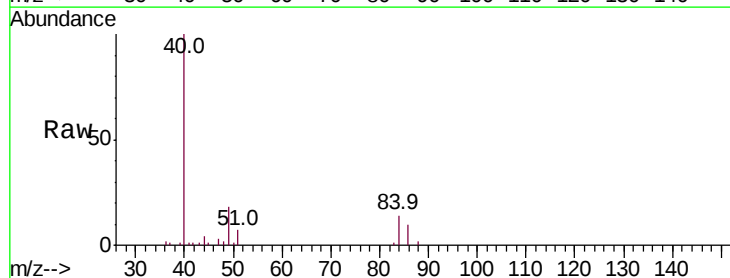
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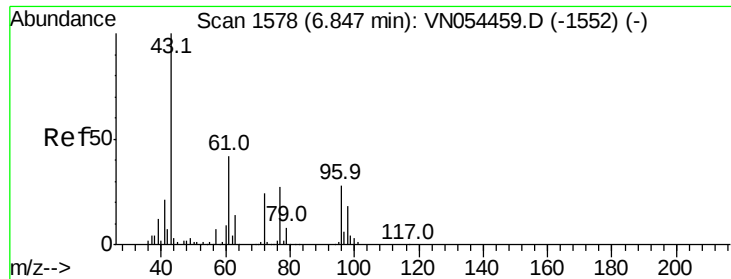
Tot Ion: 43 Resp: 1274  
Ion Ratio Lower Upper  
43 100  
74 8.0 20.8 31.2#



#20  
Methylene Chloride  
Concen: 1.534 ug/l  
RT: 4.55 min Scan# 863  
Delta R.T. 0.00 min  
Lab File: VN054532.D  
Acq: 22 Mar 2019 1:48

Tgt Ion: 84 Resp: 10931  
Ion Ratio Lower Upper  
84 100  
49 131.9 89.7 134.5  
51 47.7 28.2 42.4#  
86 70.1 50.8 76.2

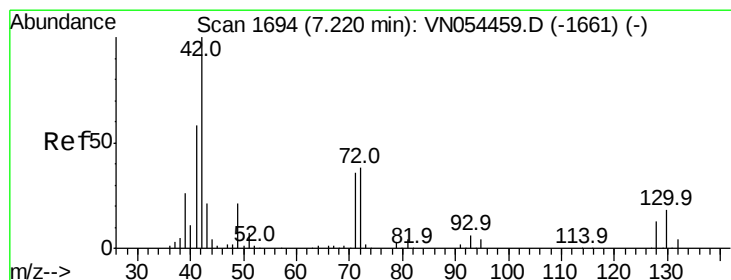
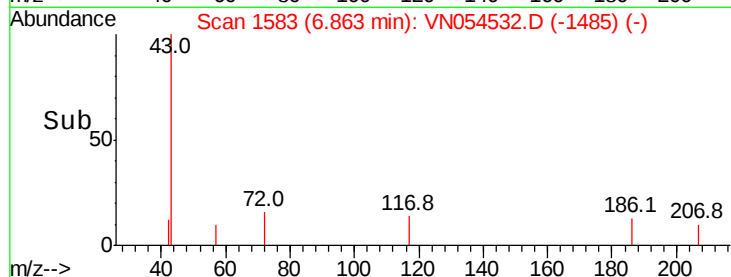
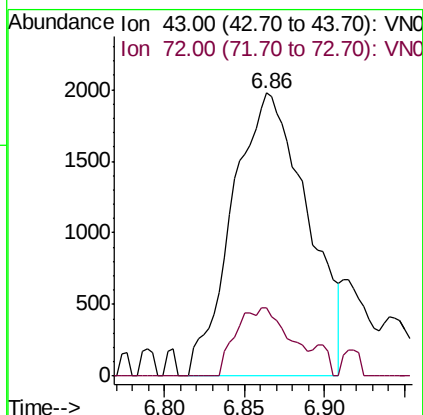
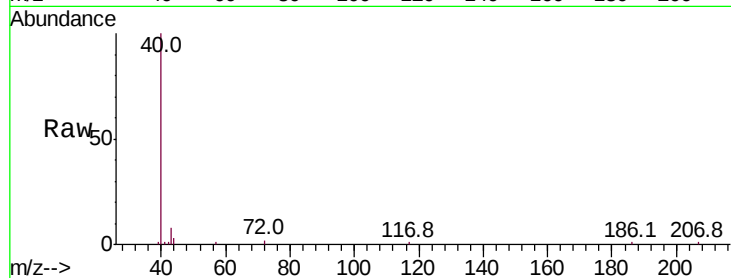




#25  
2-Butanone  
Concen: 2.057 ug/l  
RT: 6.86 min Scan# 1583  
Delta R.T. 0.02 min  
Lab File: VN054532.D  
Acq: 22 Mar 2019 1:48

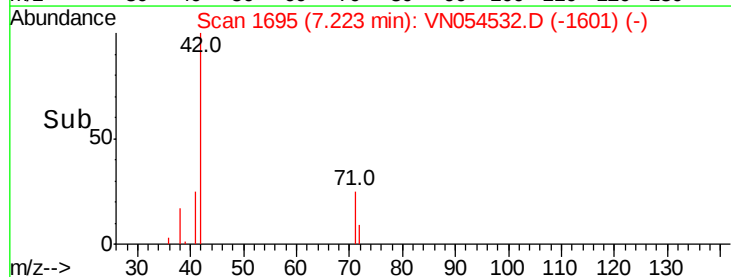
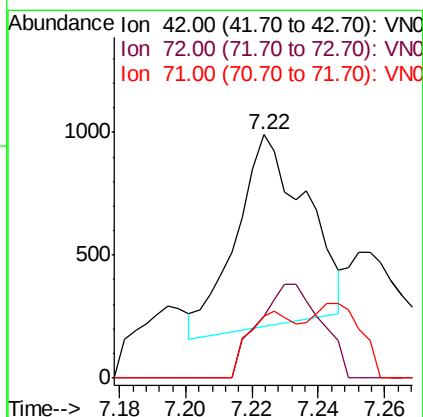
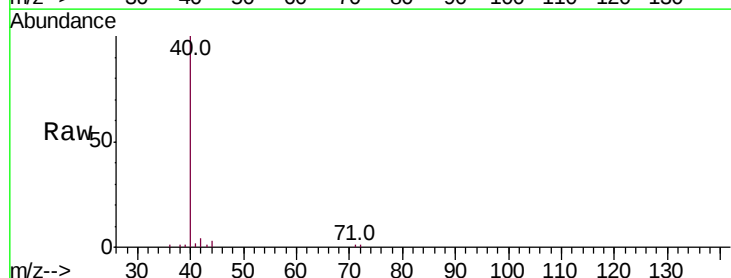
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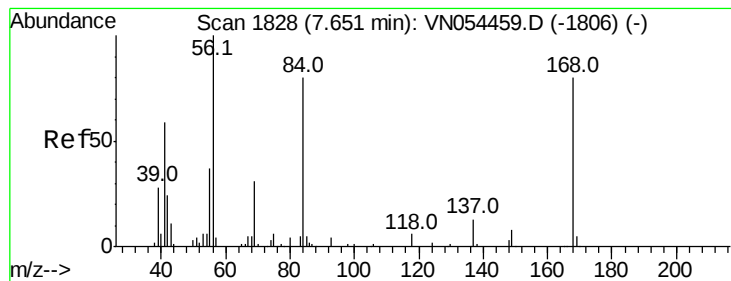
Tot Ion: 43 Resp: 6368  
Ion Ratio Lower Upper  
43 100  
72 23.9 23.0 34.6



#29  
Tetrahydrofuran  
Concen: 0.568 ug/l  
RT: 7.22 min Scan# 1695  
Delta R.T. 0.00 min  
Lab File: VN054532.D  
Acq: 22 Mar 2019 1:48

Tgt Ion: 42 Resp: 1141  
Ion Ratio Lower Upper  
42 100  
72 44.2 37.8 56.6  
71 22.7 36.2 54.2#





#31

Cyclohexane

Concen: Below Cal

RT: 7.66 min Scan# 1832

Delta R.T. 0.01 min

Lab File: VN054532.D

Acq: 22 Mar 2019 1:48

Instrument :

MSVOA\_N

ClientSampleId :

PB118113TB

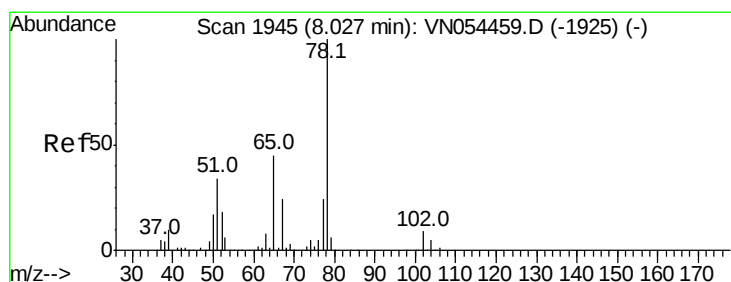
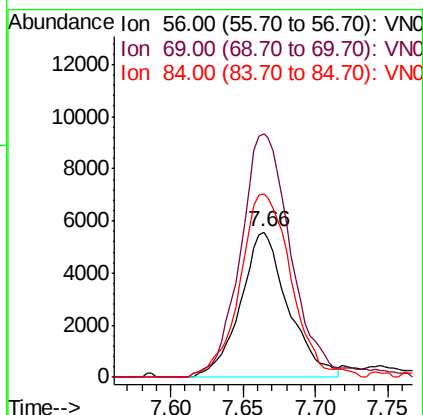
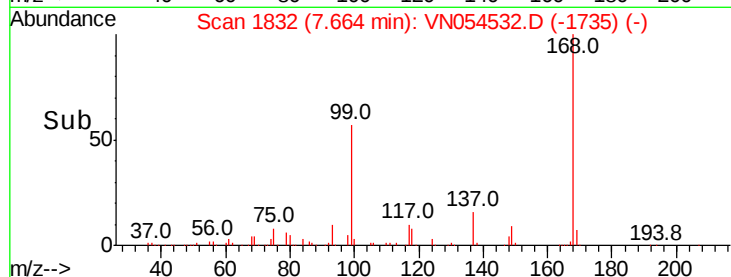
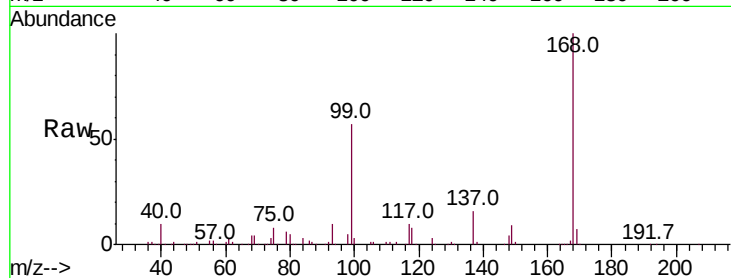
Tot Ion: 56 Resp: 12740

Ion Ratio Lower Upper

56 100

69 167.8 27.8 41.6#

84 126.7 74.6 111.8#



#33

1,2-Dichloroethane-d4

Concen: 51.539 ug/l

RT: 8.03 min Scan# 1945

Delta R.T. 0.00 min

Lab File: VN054532.D

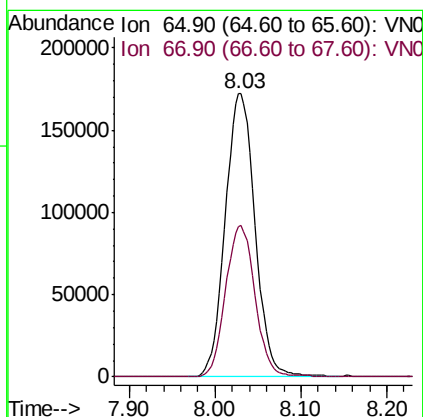
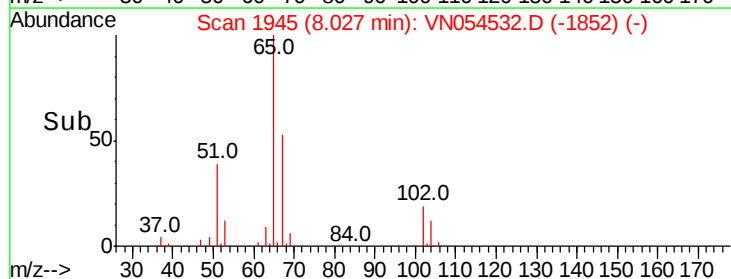
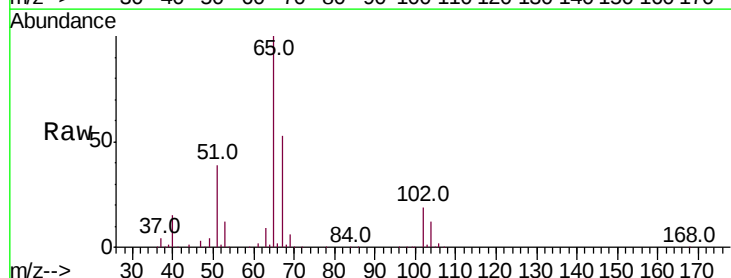
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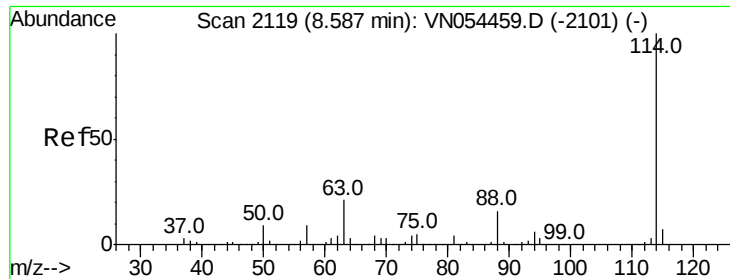
Tgt Ion: 65 Resp: 414300

Ion Ratio Lower Upper

65 100

67 52.6 0.0 104.6



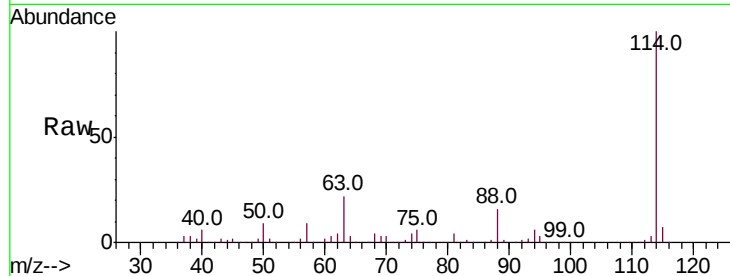


#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.59 min Scan# 2119  
 Delta R.T. 0.00 min  
 Lab File: VN054532.D  
 Acq: 22 Mar 2019 1:48

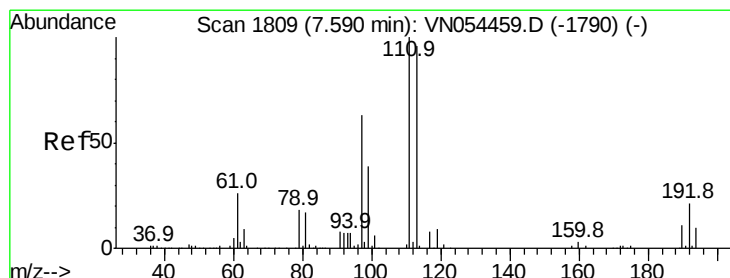
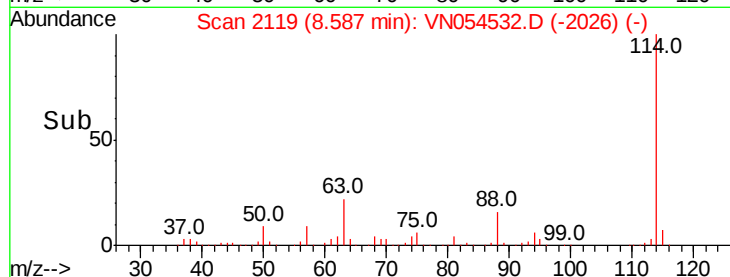
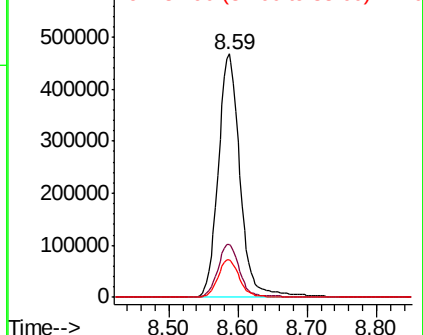
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 PB118113TB

Tot Ion:114 Resp: 1026521

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 114 | 100   |       |       |
| 63  | 21.8  | 0.0   | 35.2  |
| 88  | 15.5  | 0.0   | 30.2  |



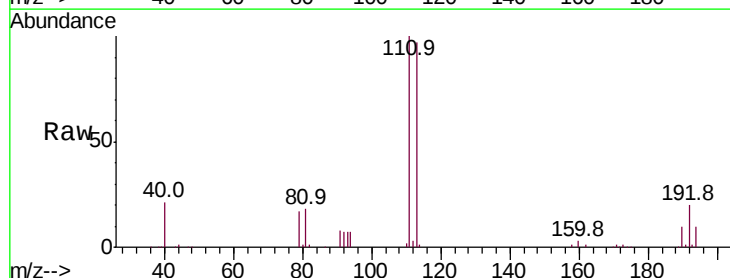
Abundance Ion 113.90 (113.60 to 114.60): V  
 Ion 63.00 (62.70 to 63.70): VN  
 Ion 87.90 (87.60 to 88.60): VN



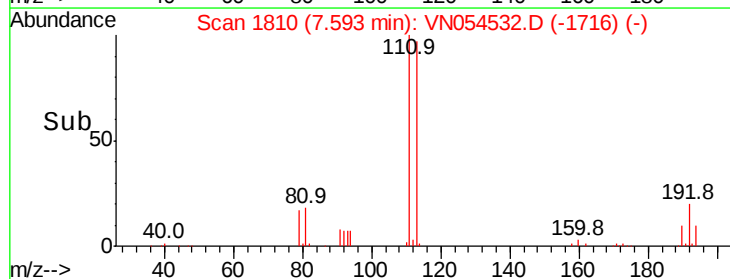
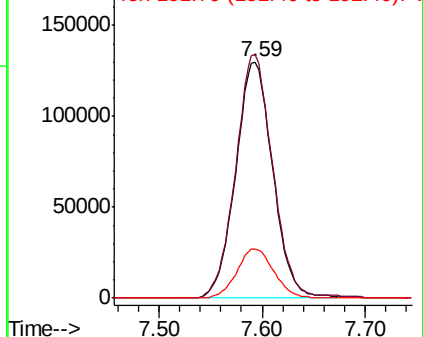
#35  
 Dibromofluoromethane  
 Concen: 49.059 ug/l  
 RT: 7.59 min Scan# 1810  
 Delta R.T. 0.00 min  
 Lab File: VN054532.D  
 Acq: 22 Mar 2019 1:48

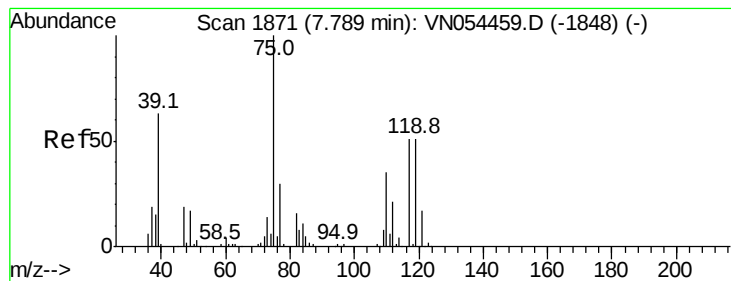
Tgt Ion:113 Resp: 324442

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 113 | 100   |       |       |
| 111 | 103.5 | 82.2  | 123.4 |
| 192 | 20.9  | 19.2  | 28.8  |



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





#36

1,1-Dichloropropene

Concen: 4.966 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.13 min

Lab File: VN054532.D

Acq: 22 Mar 2019 1:48

Instrument :

MSVOA\_N

ClientSampled :

PB118113TB

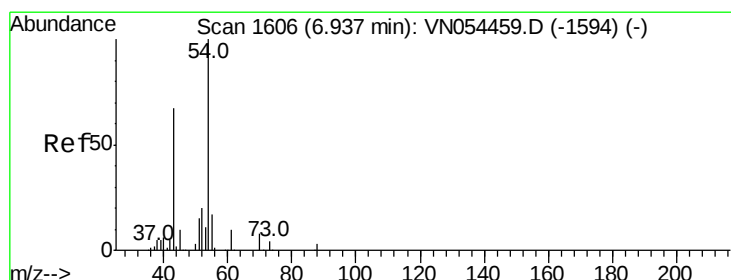
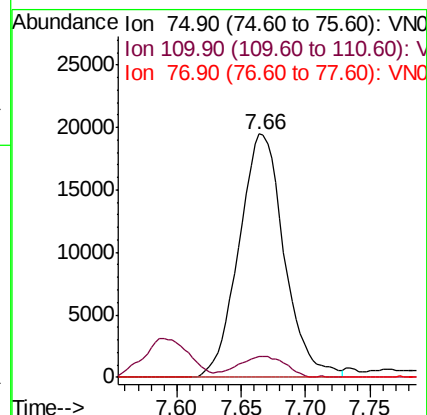
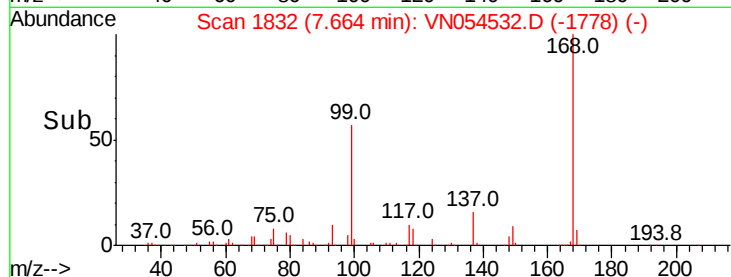
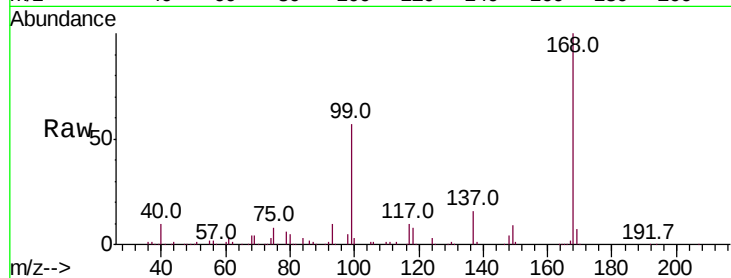
Tot Ion: 75 Resp: 47668

Ion Ratio Lower Upper

75 100

110 8.9 19.1 57.5#

77 0.0 25.0 37.4#



#37

Ethyl Acetate

Concen: 0.933 ug/l

RT: 6.86 min Scan# 1583

Delta R.T. -0.07 min

Lab File: VN054532.D

Acq: 22 Mar 2019 1:48

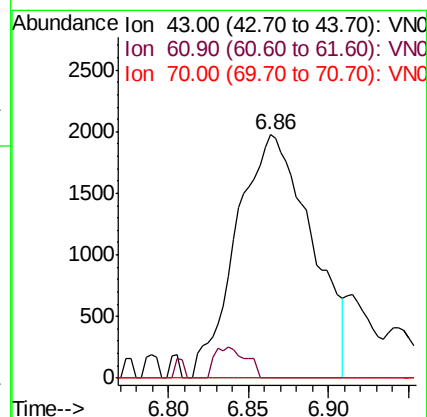
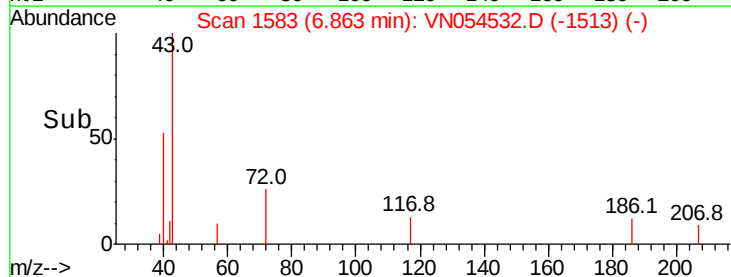
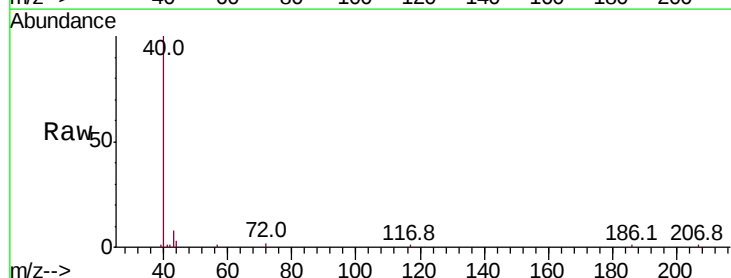
Tgt Ion: 43 Resp: 6368

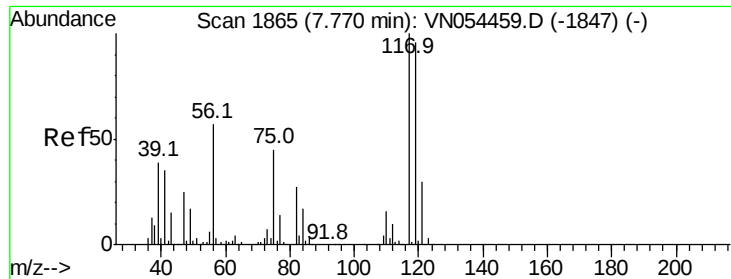
Ion Ratio Lower Upper

43 100

61 0.0 11.8 17.6#

70 0.0 8.4 12.6#





#38

Carbon Tetrachloride

Concen: 6.571 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.10 min

Lab File: VN054532.D

Acq: 22 Mar 2019 1:48

Instrument :

MSVOA\_N

ClientSampleId :

PB118113TB

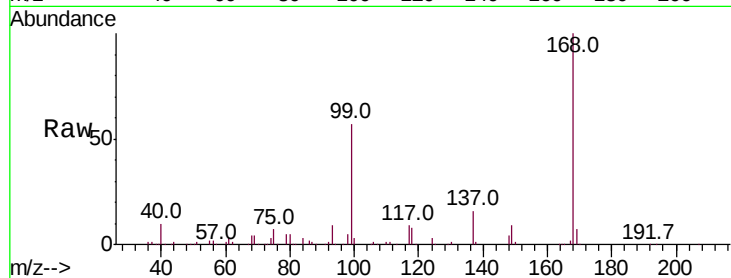
Tot Ion:117 Resp: 61292

Ion Ratio Lower Upper

117 100

119 4.1 76.3 114.5#

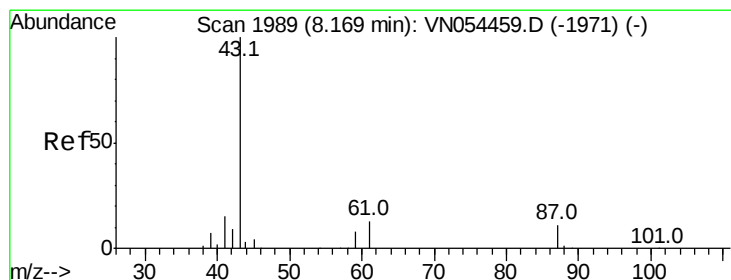
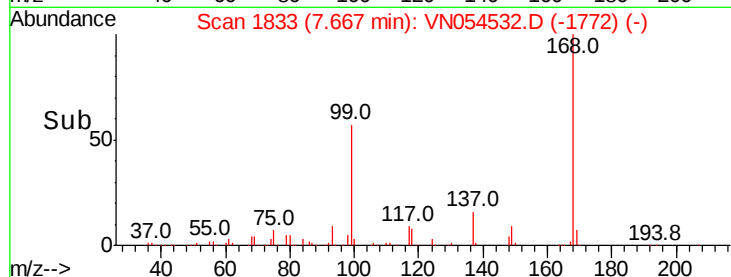
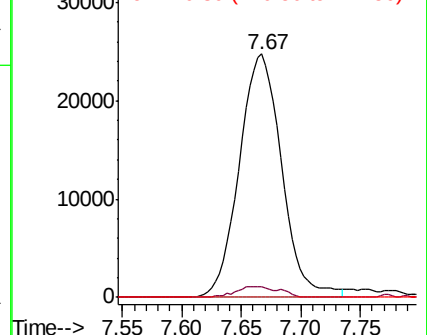
121 0.0 24.6 36.8#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#43

Isopropyl Acetate

Concen: 1.903 ug/l

RT: 8.17 min Scan# 1990

Delta R.T. 0.00 min

Lab File: VN054532.D

Acq: 22 Mar 2019 1:48

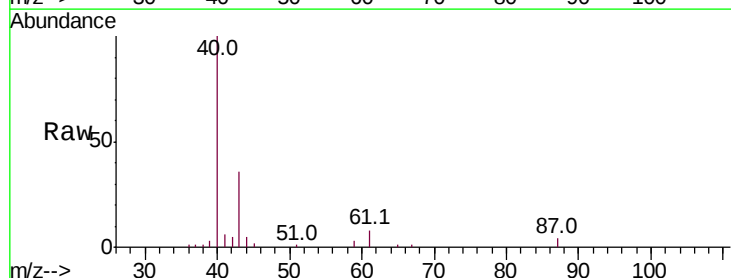
Tgt Ion: 43 Resp: 21936

Ion Ratio Lower Upper

43 100

61 19.5 15.8 23.8

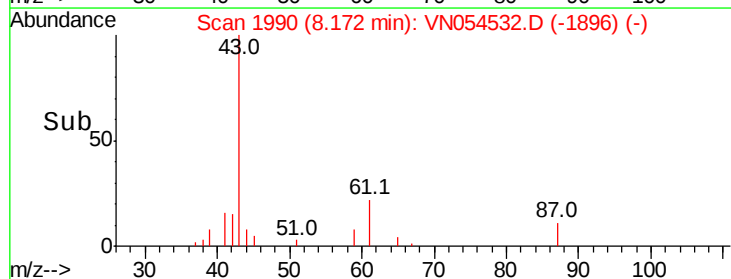
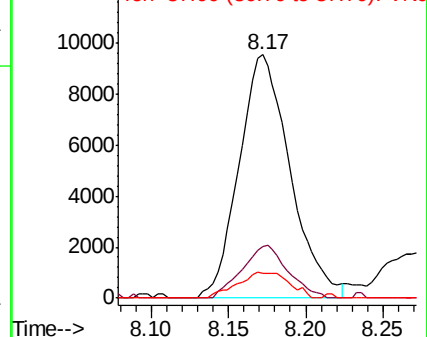
87 10.6 12.0 18.0#

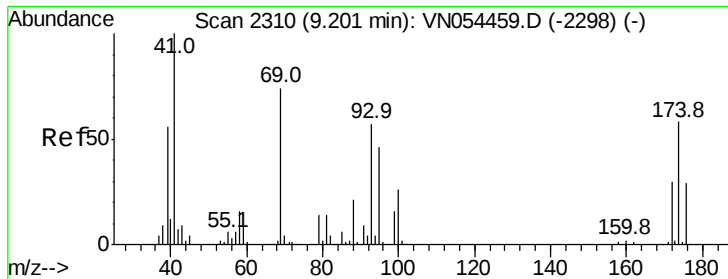


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V





#48

Methyl methacrylate

Concen: 1.376 ug/l

RT: 9.18 min Scan# 2304

Delta R.T. -0.02 min

Lab File: VN054532.D

Acq: 22 Mar 2019 1:48

Instrument :

MSVOA\_N

ClientSampled :

PB118113TB

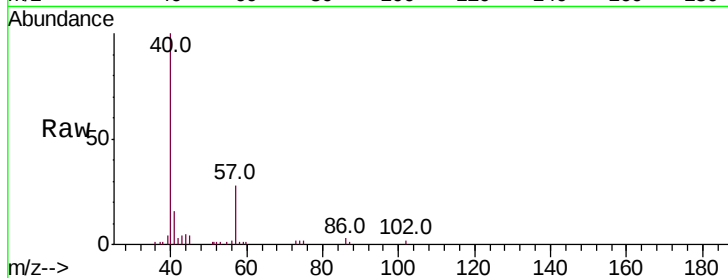
Tot Ion: 41 Resp: 8610

Ion Ratio Lower Upper

41 100

69 0.0 72.6 108.8#

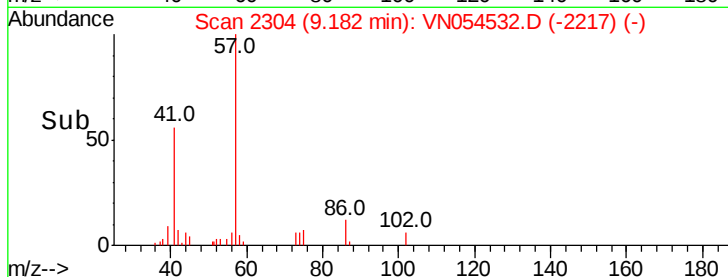
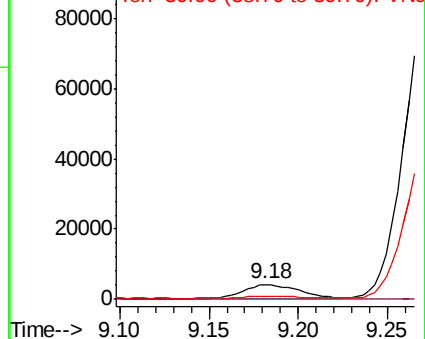
39 0.0 47.5 71.3#



Abundance Ion 41.00 (40.70 to 41.70): VNC

Ion 69.00 (68.70 to 69.70): VNC

Ion 39.00 (38.70 to 39.70): VNC



#49

1,4-Dioxane

Concen: 1.172 ug/l

RT: 9.20 min Scan# 2311

Delta R.T. 0.00 min

Lab File: VN054532.D

Acq: 22 Mar 2019 1:48

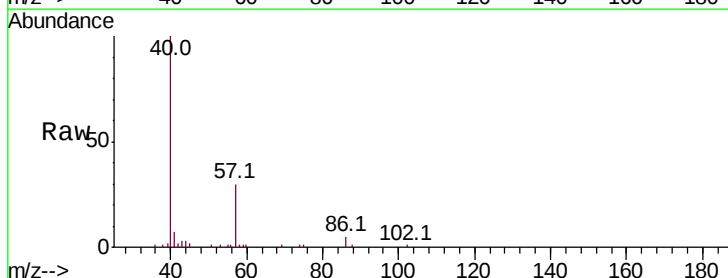
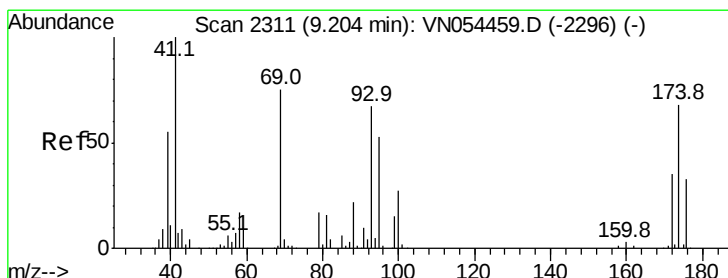
Tgt Ion: 88 Resp: 82

Ion Ratio Lower Upper

88 100

43 0.0 24.1 36.1#

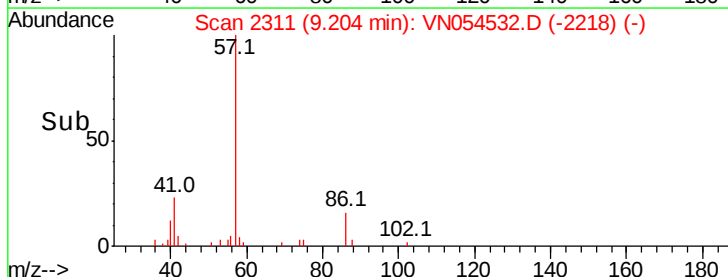
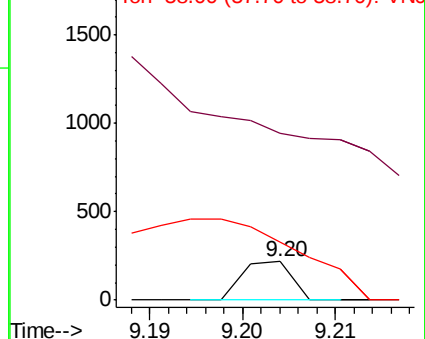
58 1150.0 50.8 76.2#

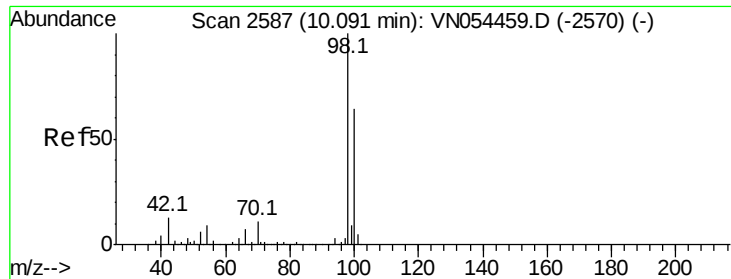


Abundance Ion 88.00 (87.70 to 88.70): VNC

Ion 43.00 (42.70 to 43.70): VNC

Ion 58.00 (57.70 to 58.70): VNC





#50

Toluene-d8

Concen: 48.702 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN054532.D

Acq: 22 Mar 2019 1:48

Instrument :

MSVOA\_N

ClientSampleId :

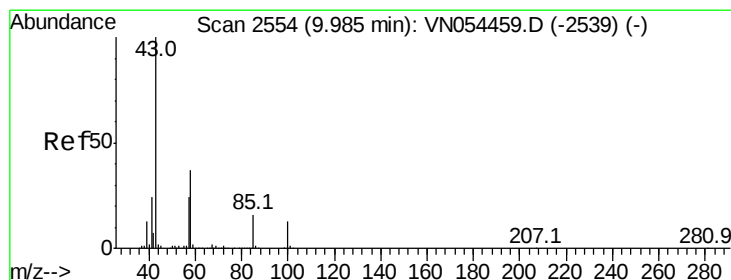
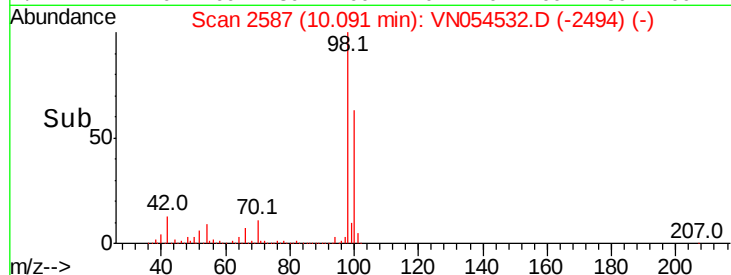
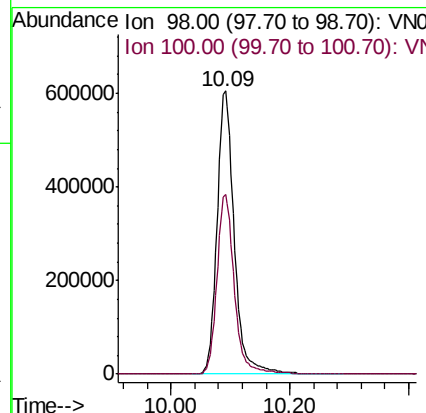
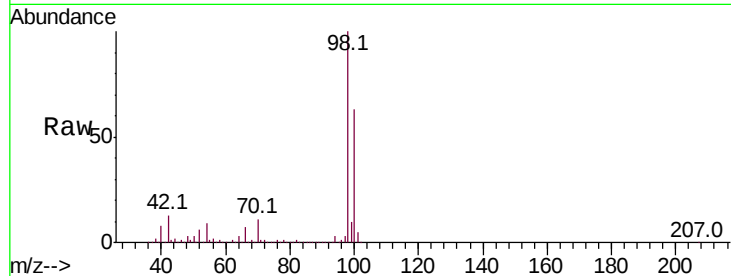
PB118113TB

Tot Ion: 98 Resp: 1210826

Ion Ratio Lower Upper

98 100

100 64.2 51.2 76.8



#51

4-Methyl-2-Pentanone

Concen: 1.281 ug/l

RT: 9.99 min Scan# 2555

Delta R.T. 0.00 min

Lab File: VN054532.D

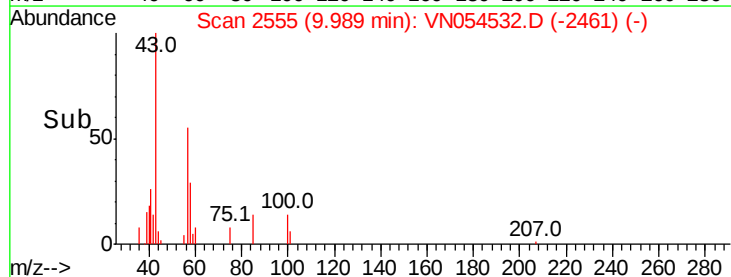
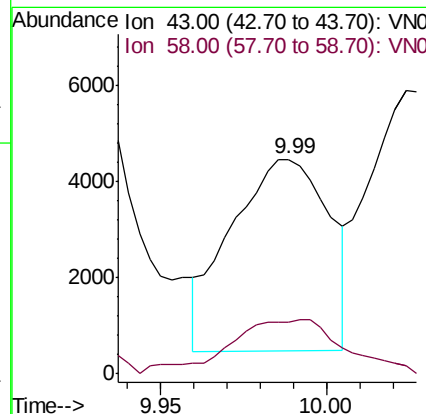
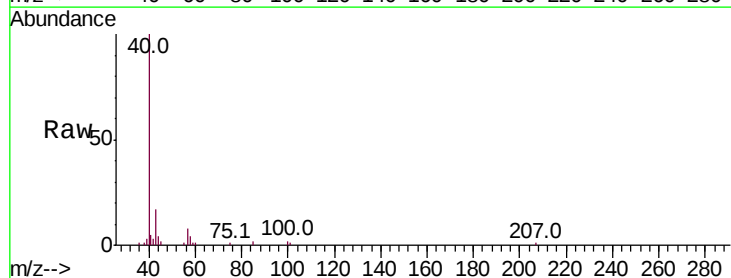
Acq: 22 Mar 2019 1:48

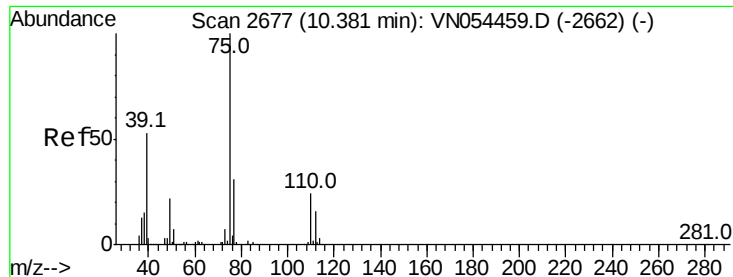
Tgt Ion: 43 Resp: 8184

Ion Ratio Lower Upper

43 100

58 33.7 31.8 47.6





#53

t-1,3-Dichloropropene

Concen: 2.249 ug/l

RT: 10.38 min Scan# 2677

Delta R.T. 0.00 min

Lab File: VN054532.D

Acq: 22 Mar 2019 1:48

Instrument :

MSVOA\_N

ClientSampled :

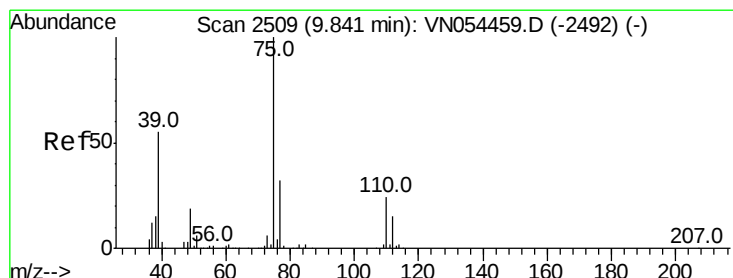
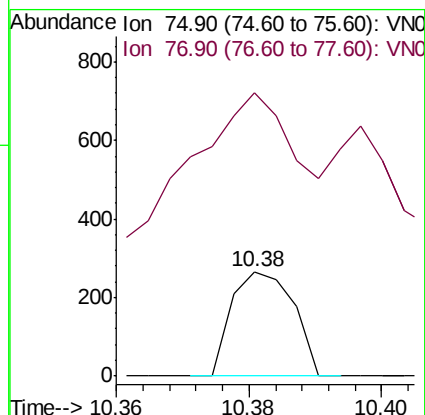
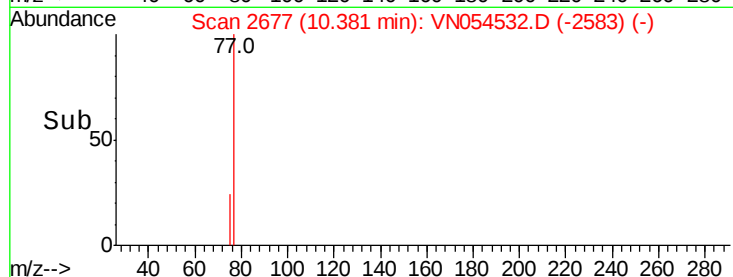
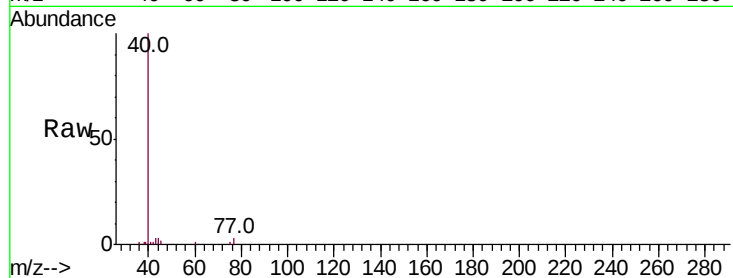
PB118113TB

Tot Ion: 75 Resp: 173

Ion Ratio Lower Upper

75 100

77 60.9 25.8 38.8#



#54

cis-1,3-Dichloropropene

Concen: 5.873 ug/l

RT: 9.90 min Scan# 2529

Delta R.T. 0.06 min

Lab File: VN054532.D

Acq: 22 Mar 2019 1:48

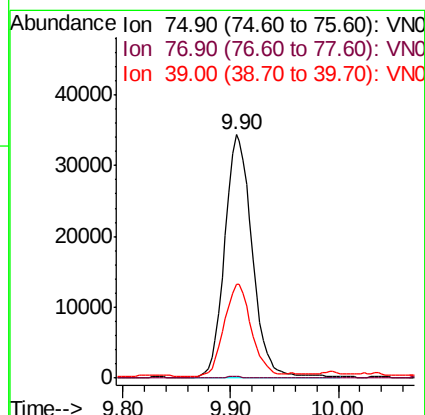
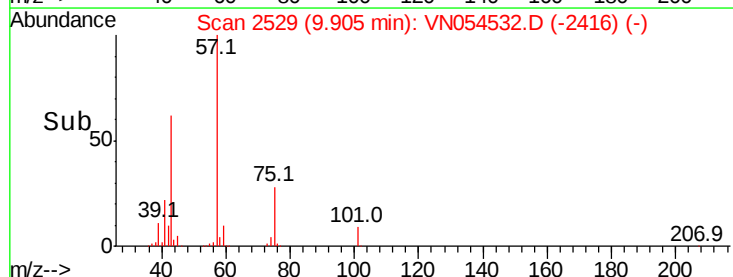
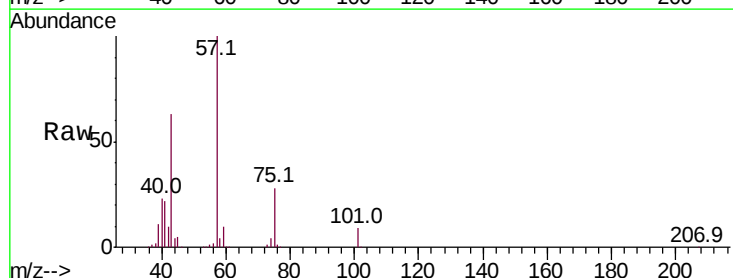
Tgt Ion: 75 Resp: 61443

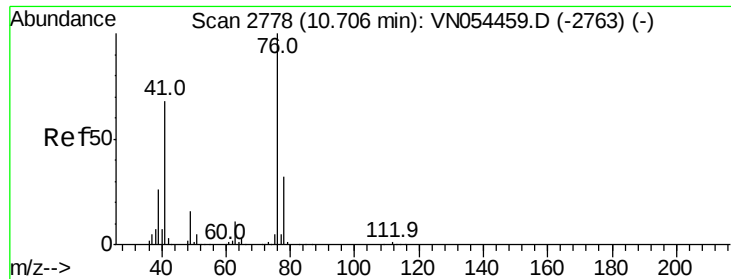
Ion Ratio Lower Upper

75 100

77 0.7 25.4 38.0#

39 37.5 37.2 55.8





#57

1,3-Dichloropropane

Concen: 1.140 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.06 min

Lab File: VN054532.D

Acq: 22 Mar 2019 1:48

Instrument :

MSVOA\_N

ClientSampleId :

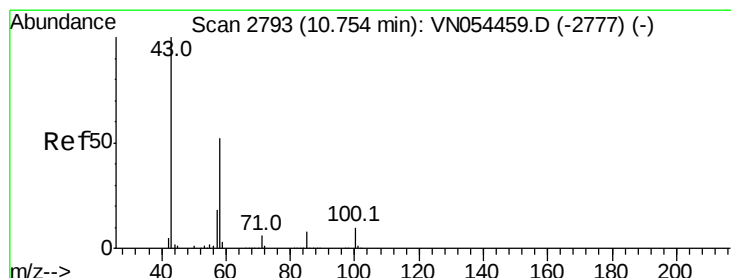
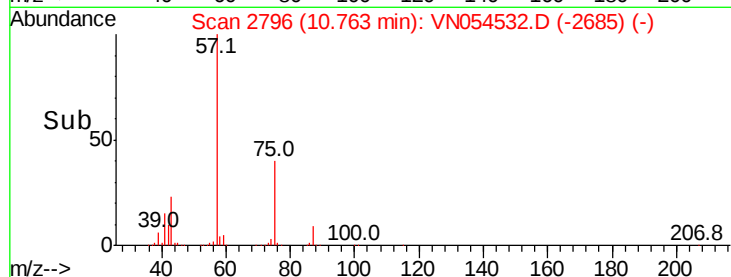
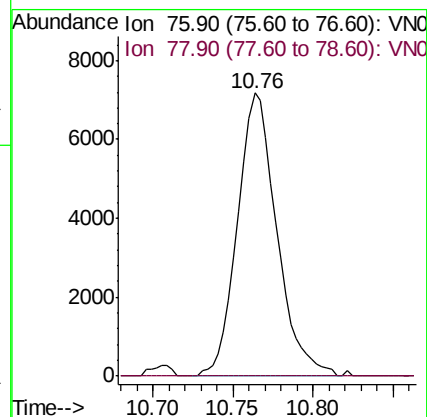
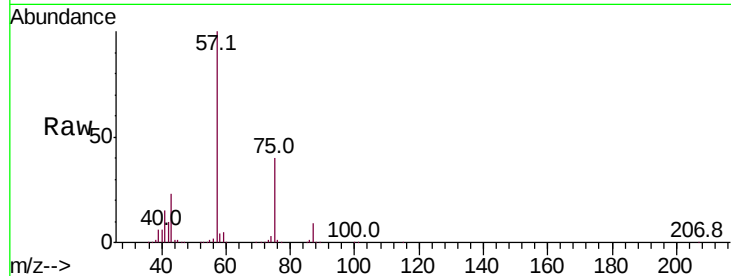
PB118113TB

Tot Ion: 76 Resp: 12026

Ion Ratio Lower Upper

76 100

78 0.0 25.7 38.5#



#59

2-Hexanone

Concen: 49.018 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.01 min

Lab File: VN054532.D

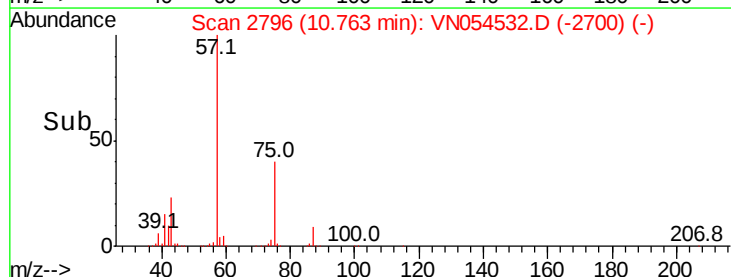
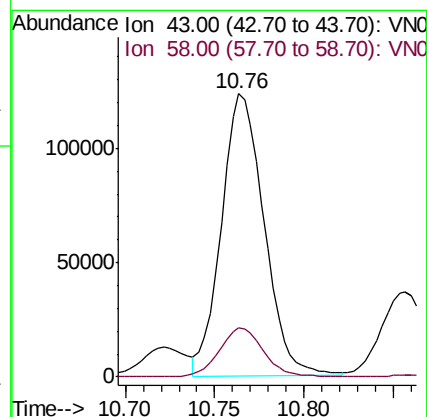
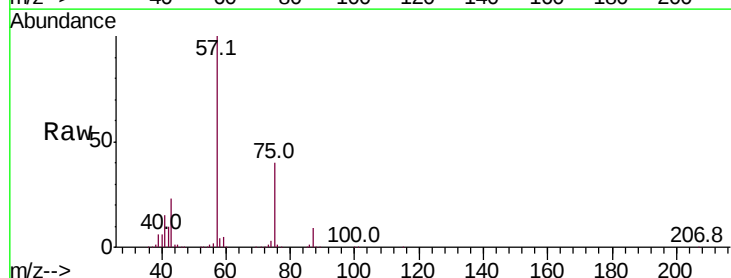
Acq: 22 Mar 2019 1:48

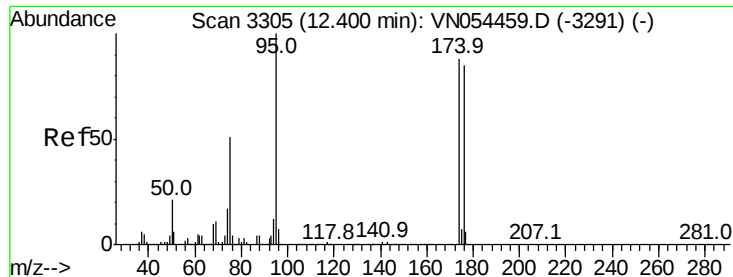
Tgt Ion: 43 Resp: 204576

Ion Ratio Lower Upper

43 100

58 18.0 28.0 83.9#





#62

4-Bromofluorobenzene

Concen: 43.403 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN054532.D

Acq: 22 Mar 2019 1:48

Instrument :

MSVOA\_N

ClientSampleId :

PB118113TB

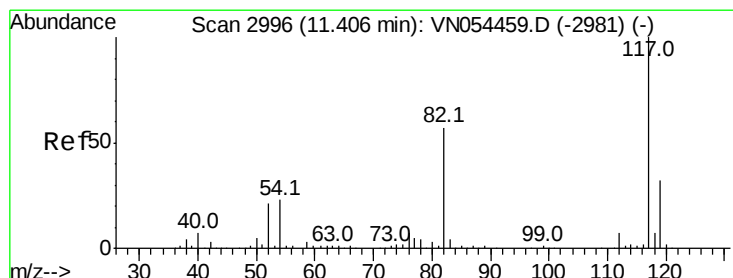
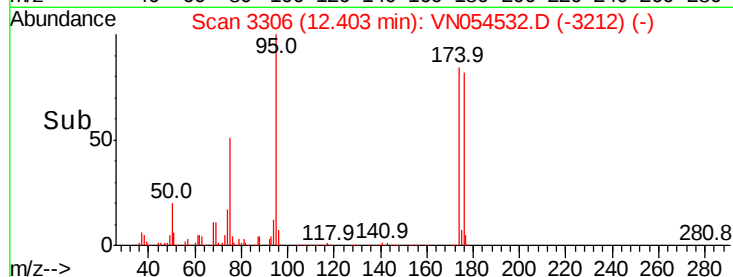
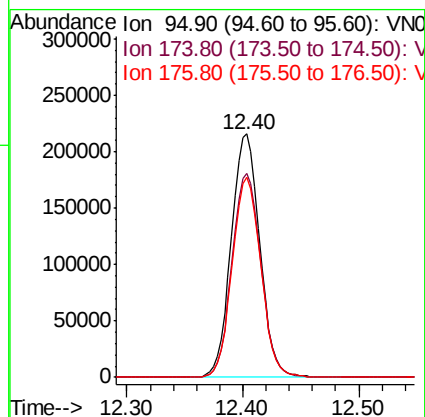
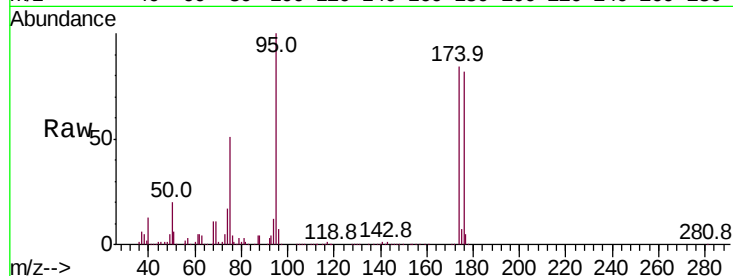
Tot Ion: 95 Resp: 367197

Ion Ratio Lower Upper

95 100

174 84.8 0.0 191.0

176 82.5 0.0 187.4



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN054532.D

Acq: 22 Mar 2019 1:48

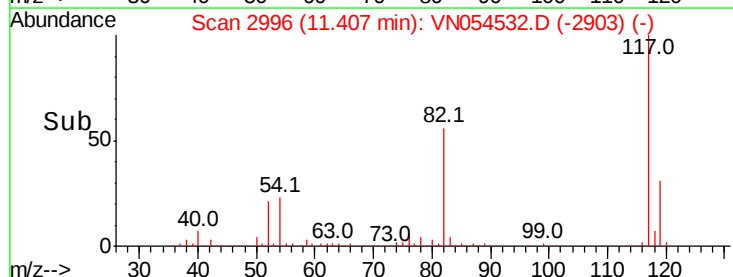
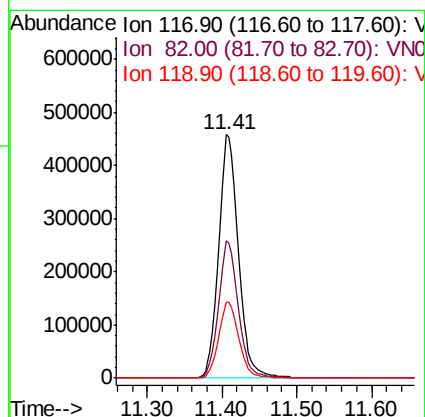
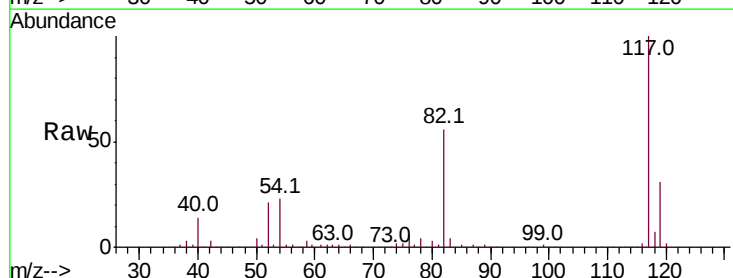
Tgt Ion: 117 Resp: 842966

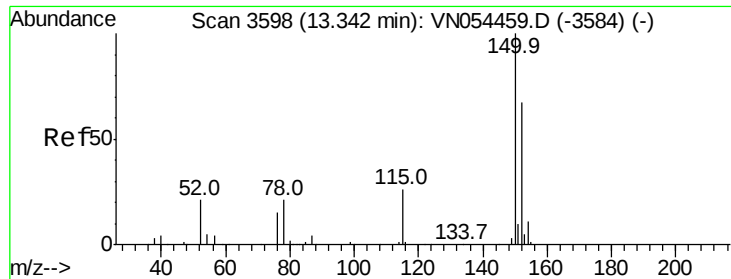
Ion Ratio Lower Upper

117 100

82 56.3 40.0 60.0

119 31.1 25.8 38.6





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN054532.D

Acq: 22 Mar 2019 1:48

Instrument :

MSVOA\_N

ClientSampleId :

PB118113TB

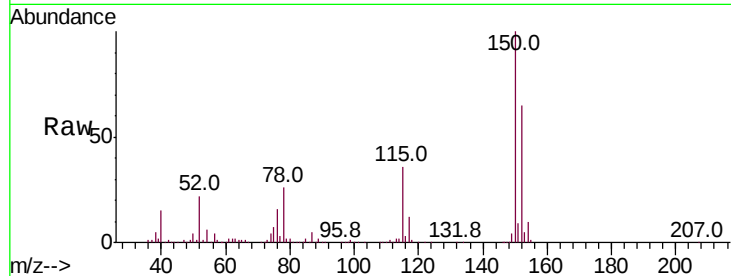
Tot Ion:152 Resp: 310323

Ion Ratio Lower Upper

152 100

115 56.5 27.2 81.6

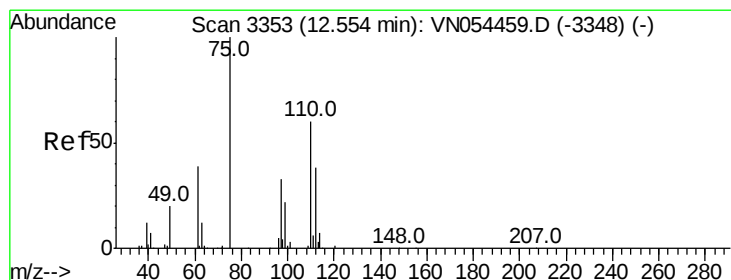
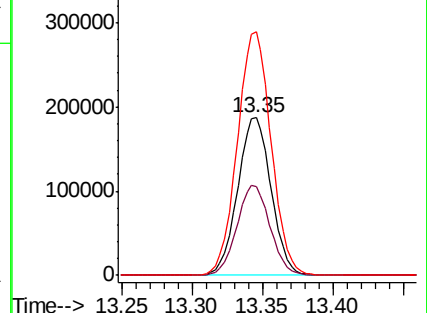
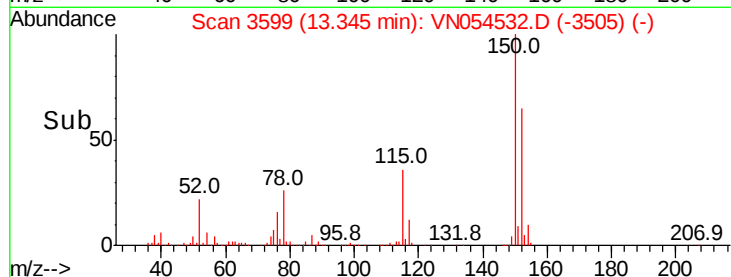
150 156.3 0.0 349.2



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



#76

1,2,3-Trichloropropane

Concen: 38.155 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN054532.D

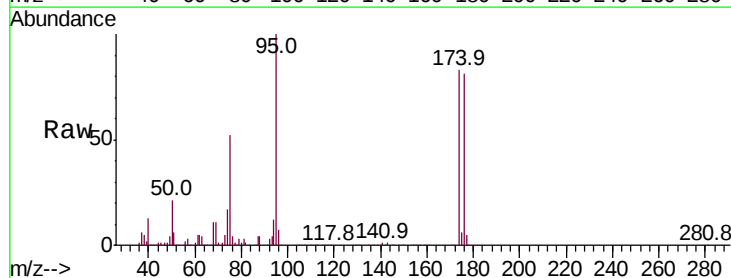
Acq: 22 Mar 2019 1:48

Tgt Ion: 75 Resp: 187889

Ion Ratio Lower Upper

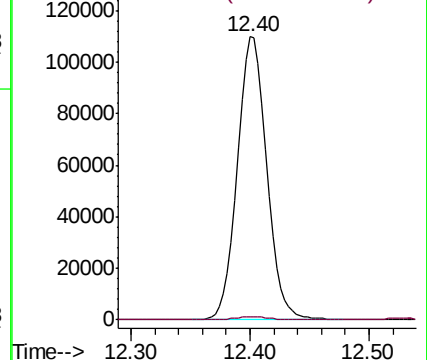
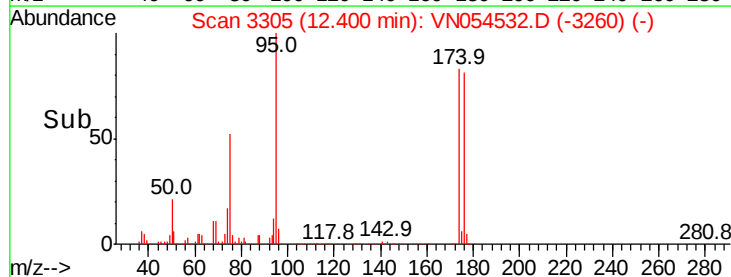
75 100

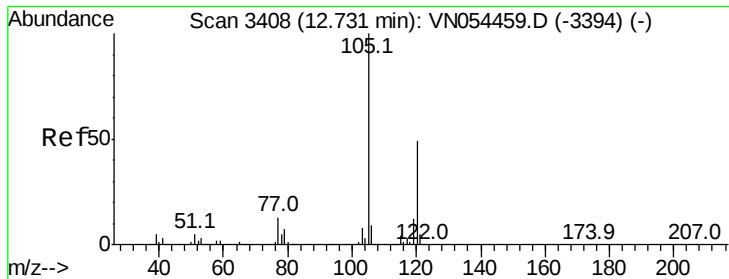
77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#80

1,3,5-Trimethylbenzene

Concen: 0.339 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. 0.00 min

Lab File: VN054532.D

Acq: 22 Mar 2019 1:48

Instrument :

MSVOA\_N

ClientSampleId :

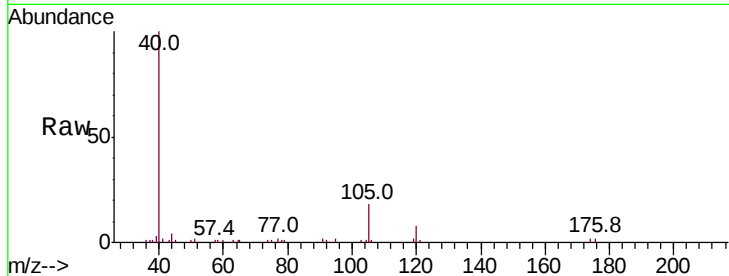
PB118113TB

Tot Ion:105 Resp: 6955

Ion Ratio Lower Upper

105 100

120 44.7 25.0 75.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

12.73

5000

4000

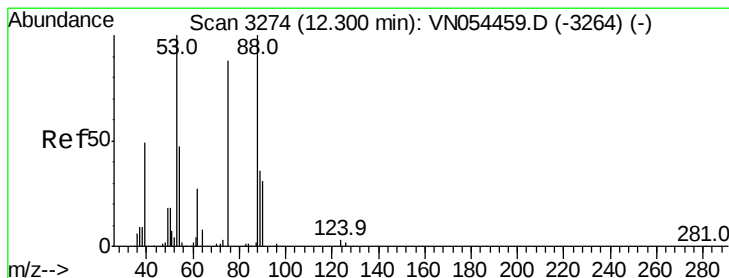
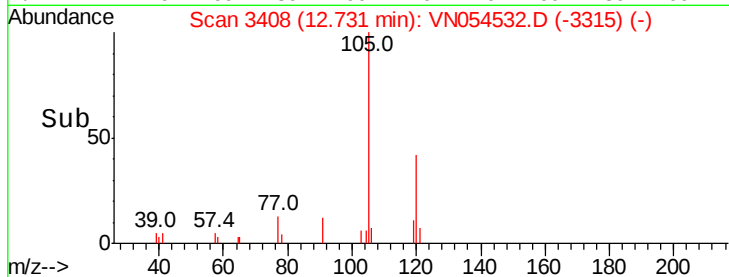
3000

2000

1000

0

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 126.362 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN054532.D

Acq: 22 Mar 2019 1:48

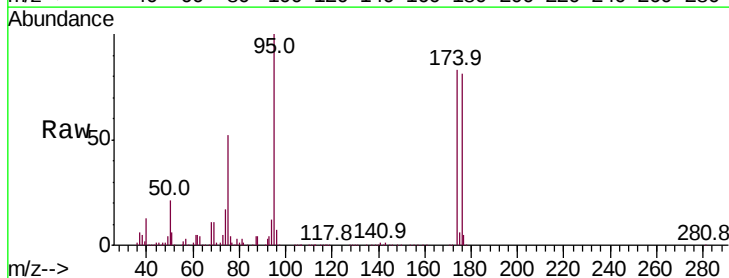
Tgt Ion: 75 Resp: 187889

Ion Ratio Lower Upper

75 100

53 0.0 76.2 114.2#

89 0.0 39.2 58.8#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO

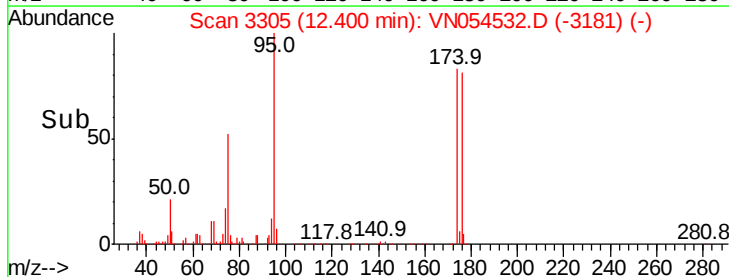
150000

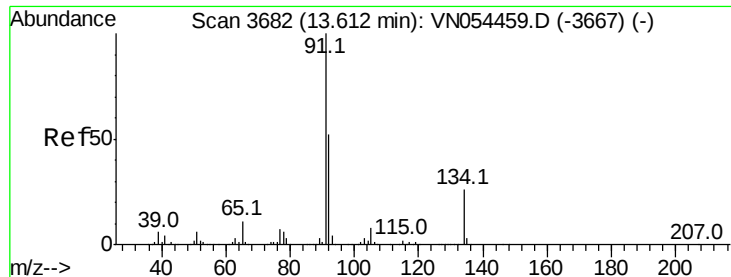
100000

50000

0

Time-->

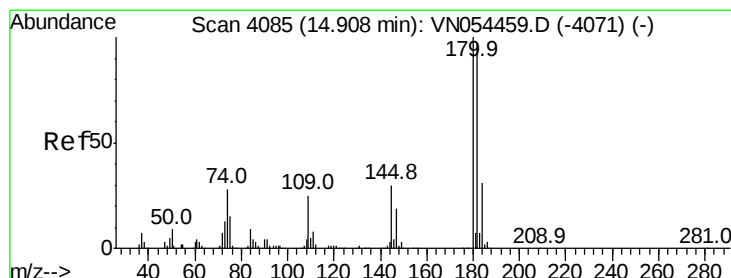
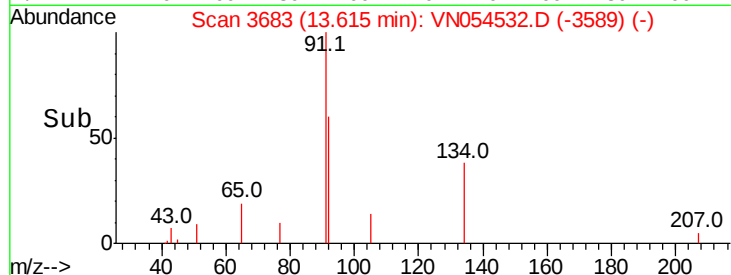
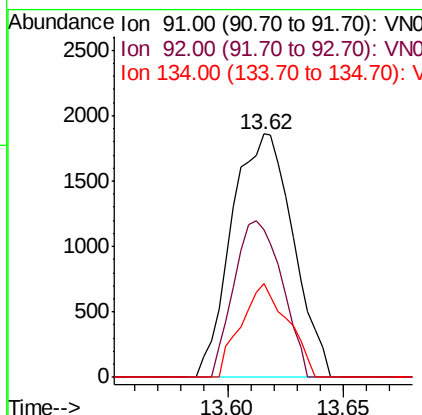
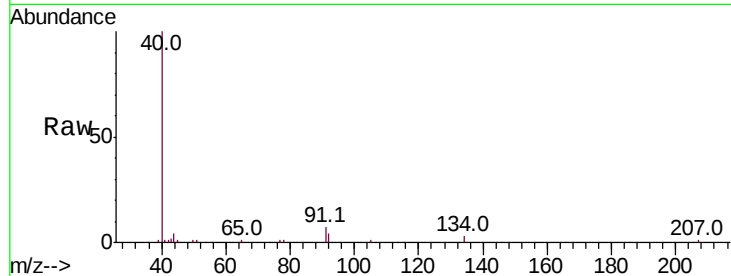




#89  
n-Butylbenzene  
Concen: 0.220 ug/l  
RT: 13.62 min Scan# 3683  
Delta R.T. 0.00 min  
Lab File: VN054532.D  
Acq: 22 Mar 2019 1:48

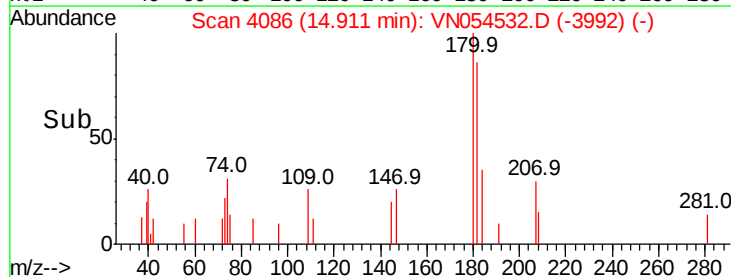
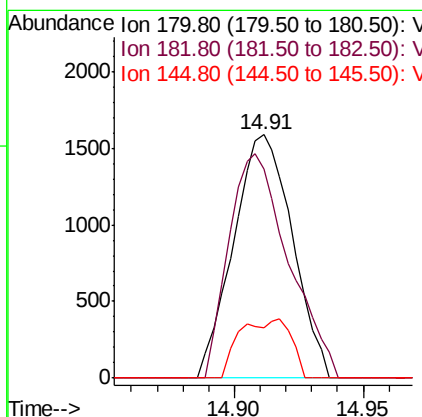
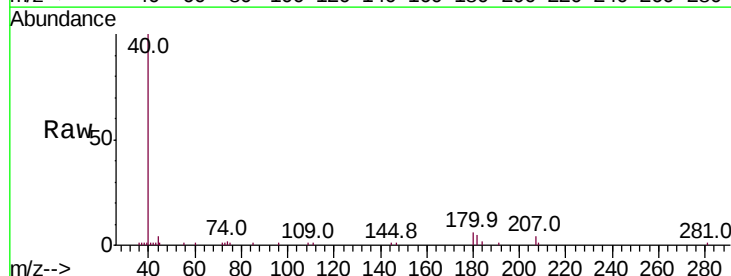
Instrument :  
MSVOA\_N  
ClientSampled :  
PB118113TB

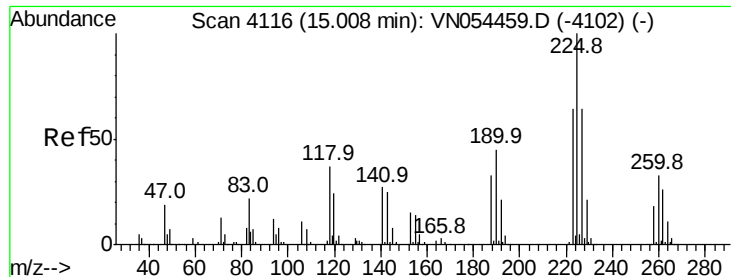
Tot Ion: 91 Resp: 3417  
Ion Ratio Lower Upper  
91 100  
92 50.4 26.2 78.6  
134 29.5 14.3 42.9



#93  
1,2,4-Trichlorobenzene  
Concen: 0.509 ug/l  
RT: 14.91 min Scan# 4086  
Delta R.T. 0.00 min  
Lab File: VN054532.D  
Acq: 22 Mar 2019 1:48

Tgt Ion: 180 Resp: 2526  
Ion Ratio Lower Upper  
180 100  
182 93.4 48.0 144.2  
145 21.3 14.2 42.8





#94

Hexachlorobutadiene

Concen: Below Cal

RT: 15.00 min Scan# 4115

Delta R.T. -0.00 min

Lab File: VN054532.D

Acq: 22 Mar 2019 1:48

Instrument :

MSVOA\_N

ClientSampleId :

PB118113TB

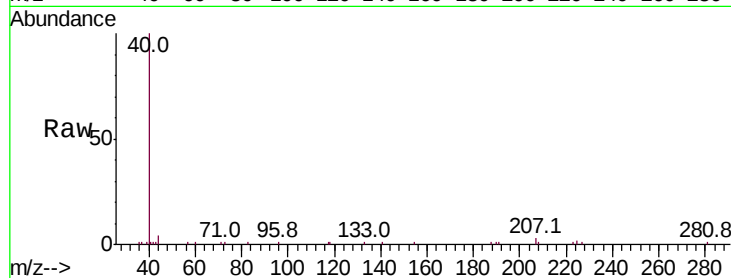
Tot Ion:225 Resp: 752

Ion Ratio Lower Upper

225 100

223 71.0 31.1 93.5

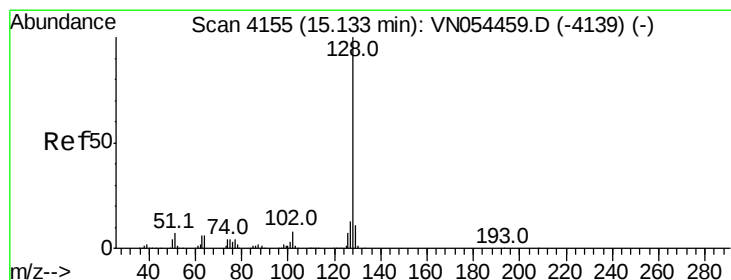
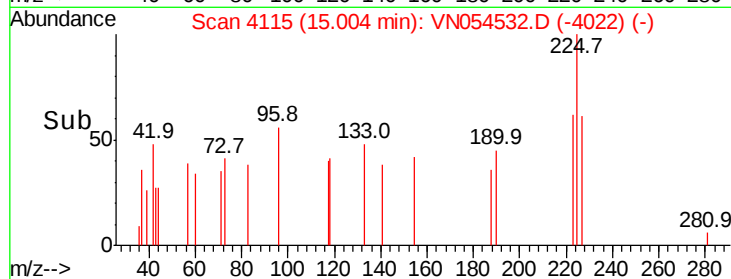
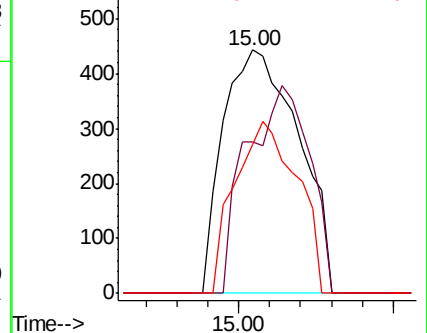
227 58.4 31.9 95.9



Abundance Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V



#95

Naphthalene

Concen: 0.867 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN054532.D

Acq: 22 Mar 2019 1:48

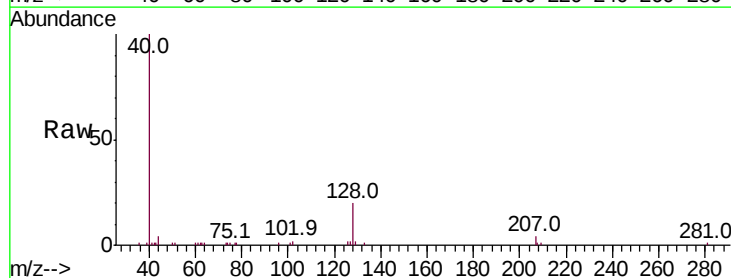
Tgt Ion:128 Resp: 9592

Ion Ratio Lower Upper

128 100

127 10.6 10.1 15.1

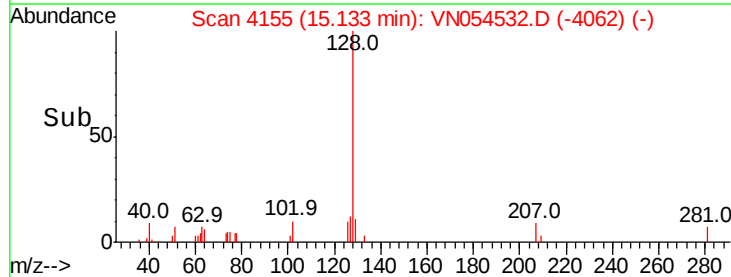
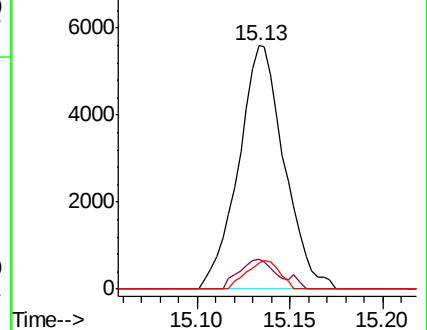
129 8.4 8.7 13.1#

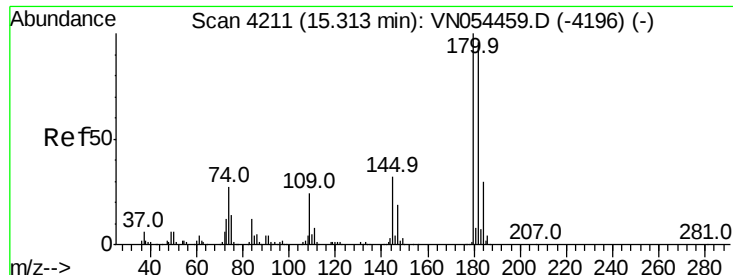


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V





#96  
 1,2,3-Trichlorobenzene  
 Concen: 0.616 ug/l  
 RT: 15.32 min Scan# 4212  
 Delta R.T. 0.00 min  
 Lab File: VN054532.D  
 Acq: 22 Mar 2019 1:48

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 PB118113TB

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 88.7  | 47.5  | 142.6 |
| 145     | 26.2  | 14.8  | 44.3  |

