

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN110420\  
 Data File : VN064437.D  
 Acq On : 4 Nov 2020 15:36  
 Operator : JC/MD  
 Sample : L4541-09  
 Misc : 4.03g/5mL/100uL/5.00mL/MSVOA\_N/MEOH  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 2015

Quant Time: Nov 05 00:46:43 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N110420W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Nov 04 12:09:03 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.62  | 168  | 256636   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.55  | 114  | 504081   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.38 | 117  | 497686   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.32 | 152  | 205857   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 7.99   | 65  | 231475   | 51.78 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 103.56% |      |
| 35) Dibromofluoromethane  | 7.55   | 113 | 165939   | 48.35 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 96.70%  |      |
| 50) Toluene-d8            | 10.06  | 98  | 636679   | 48.00 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 96.00%  |      |
| 62) 4-Bromofluorobenzene  | 12.38  | 95  | 253861   | 50.60 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 101.20% |      |

## Target Compounds

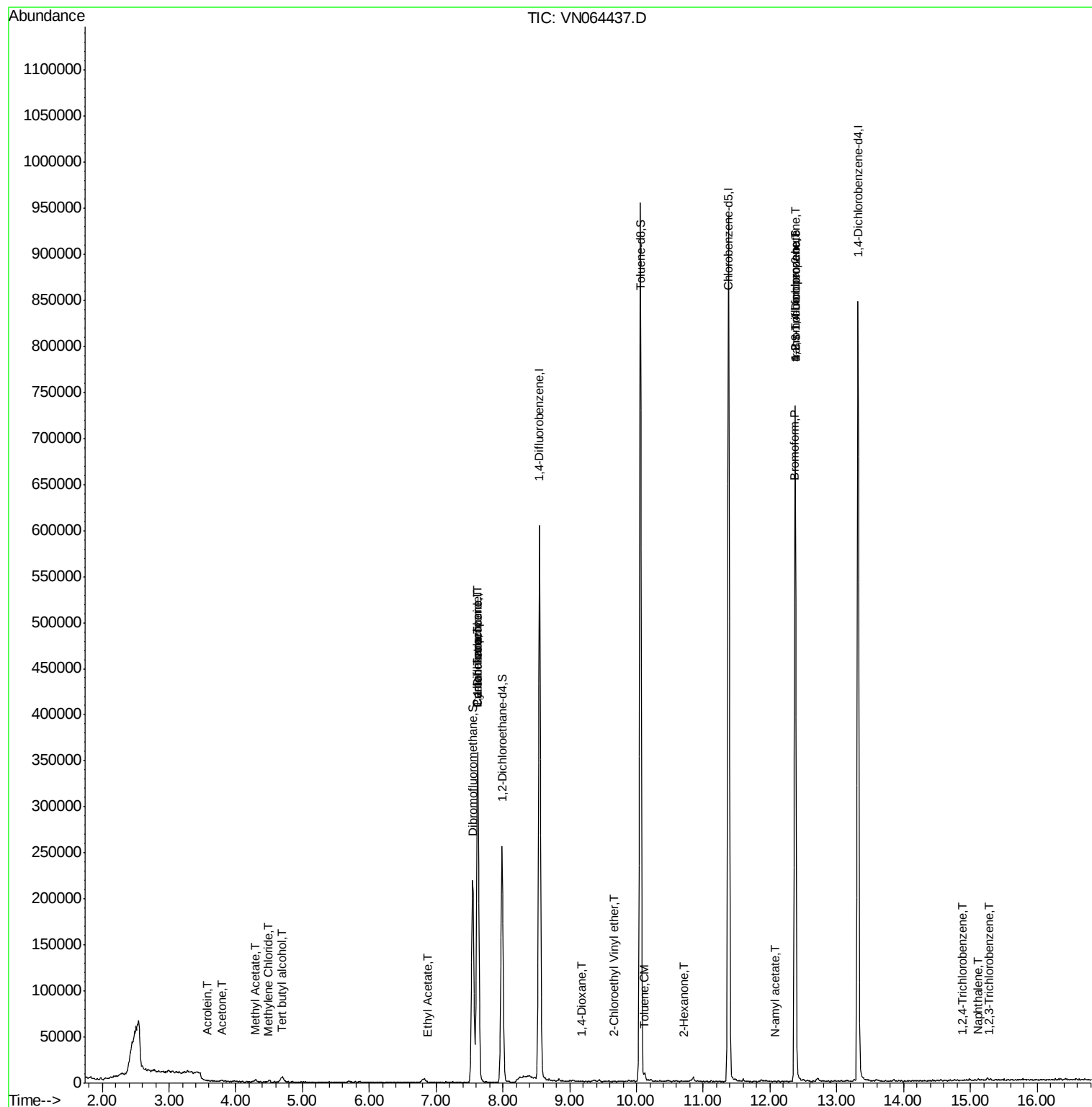
|                                |       |     |        |        |        | Qvalue |
|--------------------------------|-------|-----|--------|--------|--------|--------|
| 11) Tert butyl alcohol         | 4.69  | 59  | 3815   | 7.739  | ug/l # | 71     |
| 13) Acrolein                   | 3.57  | 56  | 465    | 1.521  | ug/l   | 90     |
| 16) Acetone                    | 3.78  | 43  | 922    | 0.541  | ug/l # | 48     |
| 18) Methyl Acetate             | 4.29  | 43  | 4788   | 1.430  | ug/l # | 87     |
| 20) Methylene Chloride         | 4.49  | 84  | 877    | 0.260  | ug/l   | 86     |
| 31) Cyclohexane                | 7.62  | 56  | 7538   | 1.387  | ug/l # | 38     |
| 36) 1,1-Dichloropropene        | 7.62  | 75  | 24959  | 4.687  | ug/l # | 51     |
| 37) Ethyl Acetate              | 6.88  | 43  | 268    | 0.811  | ug/l # | 71     |
| 38) Carbon Tetrachloride       | 7.62  | 117 | 29734  | 5.224  | ug/l # | 16     |
| 49) 1,4-Dioxane                | 9.17  | 88  | 31     | 0.540  | ug/l # | 1      |
| 52) Toluene                    | 10.13 | 92  | 2187   | 0.229  | ug/l   | 95     |
| 58) 2-Chloroethyl Vinyl ether  | 9.66  | 63  | 30     | 21.547 | ug/l # | 51     |
| 59) 2-Hexanone                 | 10.72 | 43  | 110    | 4.054  | ug/l # | 28     |
| 71) Bromoform                  | 12.36 | 173 | 239    | 1.351  | ug/l # | 29     |
| 74) N-amyl acetate             | 12.06 | 43  | 200    | 1.239  | ug/l # | 46     |
| 76) 1,2,3-Trichloropropane     | 12.38 | 75  | 141911 | 28.452 | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.38 | 75  | 141911 | 79.441 | ug/l # | 8      |
| 93) 1,2,4-Trichlorobenzene     | 14.89 | 180 | 141    | 2.704  | ug/l # | 28     |
| 95) Naphthalene                | 15.11 | 128 | 915    | 3.698  | ug/l # | 69     |
| 96) 1,2,3-Trichlorobenzene     | 15.28 | 180 | 31     | 2.785  | ug/l # | 12     |

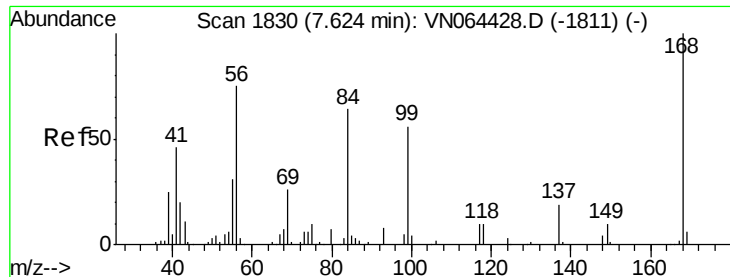
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Instrument :  
MSVOA\_N  
ClientSampleId :  
2015

Quant Time: Nov 05 00:46:43 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_N\METHODS\82N110420W.M  
Quant Title : SW846 8260  
QLast Update : Wed Nov 04 12:09:03 2020  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. 0.00 min

Lab File: VN064437.D

Acq: 4 Nov 2020 15:36

Instrument :

MSVOA\_N

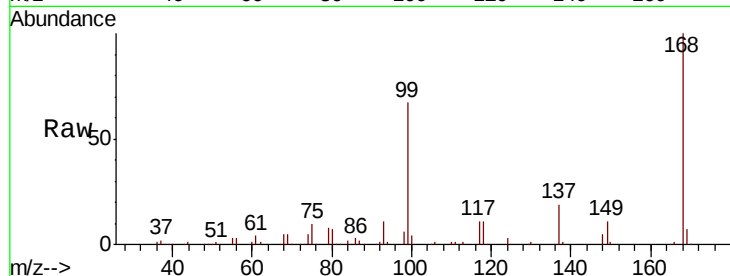
ClientSampleId :  
2015

Tot Ion:168 Resp: 256636

Ion Ratio Lower Upper

168 100

99 66.6 53.4 80.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

7.62

120000

100000

80000

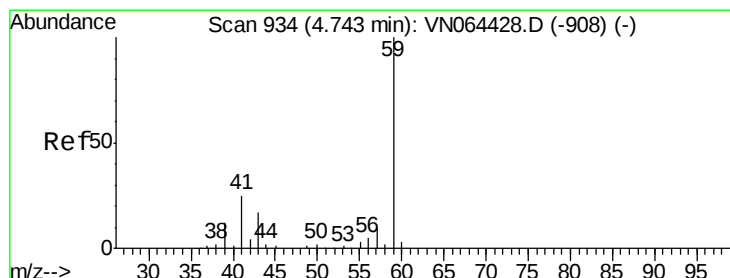
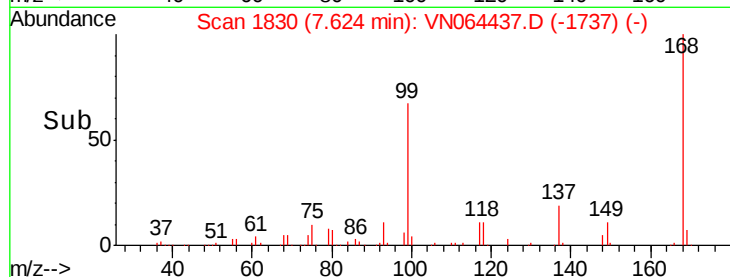
60000

40000

20000

0

Time--> 7.50 7.60 7.70



#11

Tert butyl alcohol

Concen: 7.739 ug/l

RT: 4.69 min Scan# 918

Delta R.T. -0.05 min

Lab File: VN064437.D

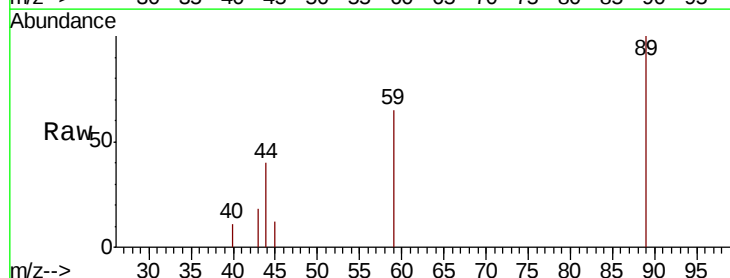
Acq: 4 Nov 2020 15:36

Tgt Ion: 59 Resp: 3815

Ion Ratio Lower Upper

59 100

57 0.0 9.0 13.4#



Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 57.00 (56.70 to 57.70): VN0

4.69

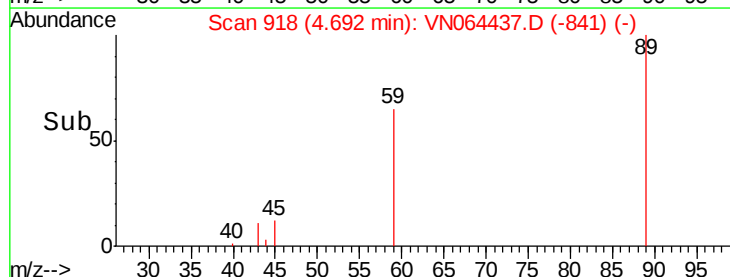
1500

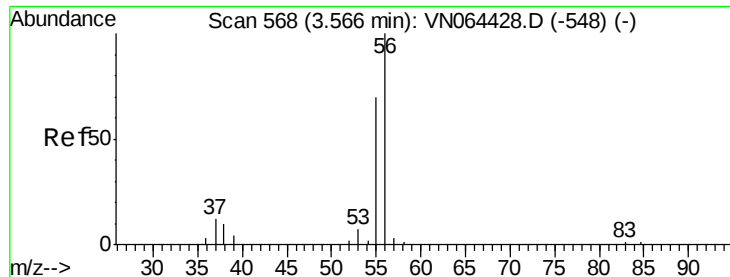
1000

500

0

Time--> 4.65 4.70





#13

Acrolein

Concen: 1.521 ug/l

RT: 3.57 min Scan# 569

Delta R.T. 0.00 min

Lab File: VN064437.D

Acq: 4 Nov 2020 15:36

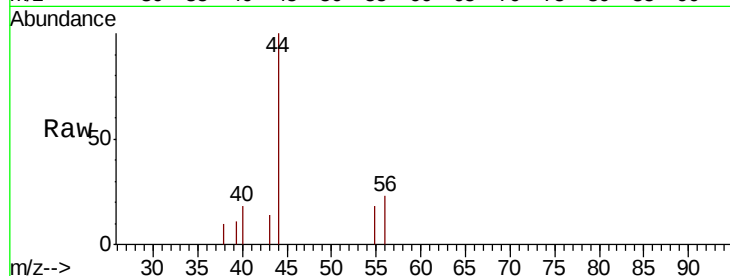
Instrument :  
MSVOA\_N  
ClientSampleId :  
2015

Tot Ion: 56 Resp: 465

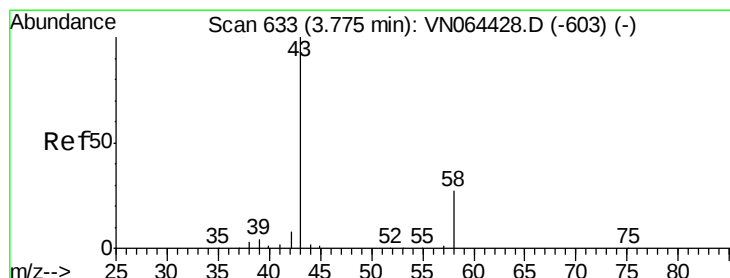
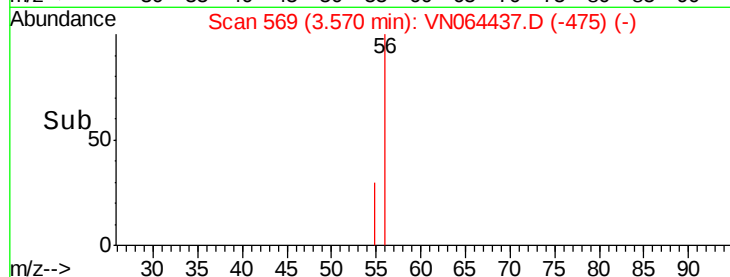
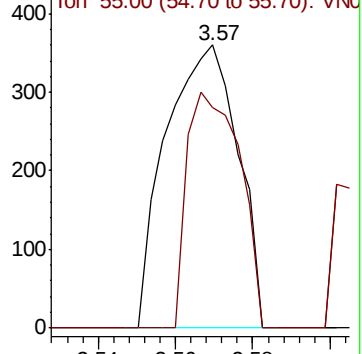
Ion Ratio Lower Upper

56 100

55 61.7 55.9 83.9



Abundance Ion 56.00 (55.70 to 56.70): VN064428.D (-548) (-)



#16

Acetone

Concen: 0.541 ug/l

RT: 3.78 min Scan# 634

Delta R.T. 0.00 min

Lab File: VN064437.D

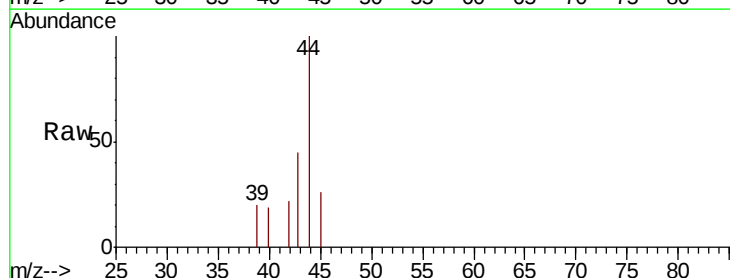
Acq: 4 Nov 2020 15:36

Tgt Ion: 43 Resp: 922

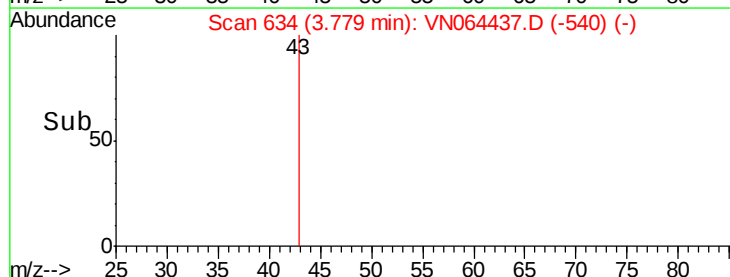
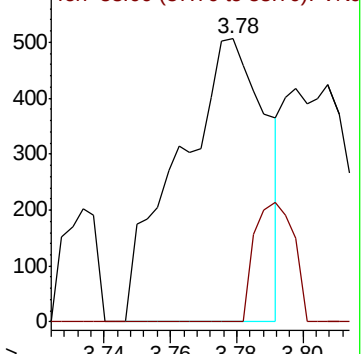
Ion Ratio Lower Upper

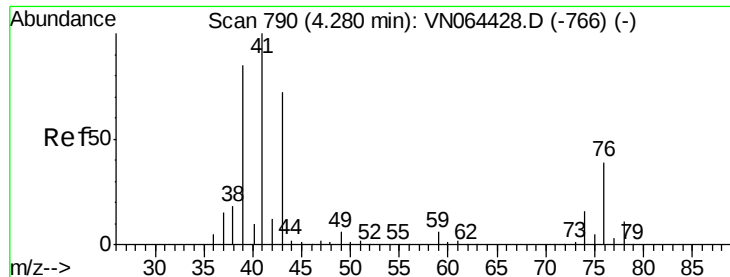
43 100

58 0.0 21.4 32.0#



Abundance Ion 43.00 (42.70 to 43.70): VN064428.D (-603) (-)

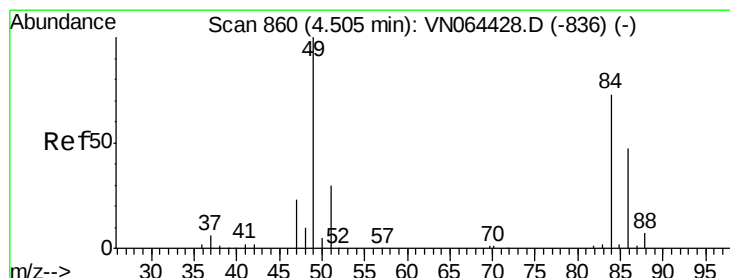
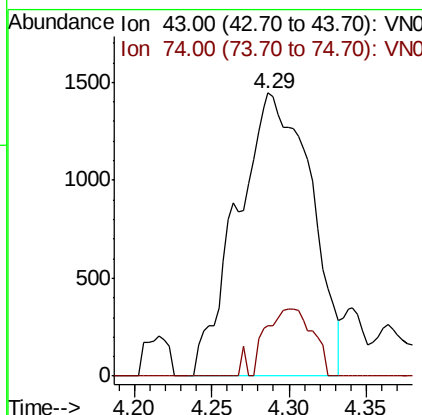
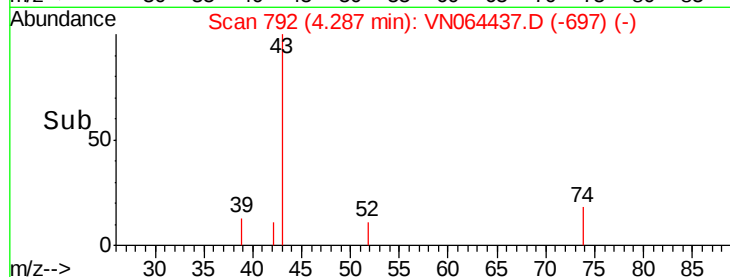
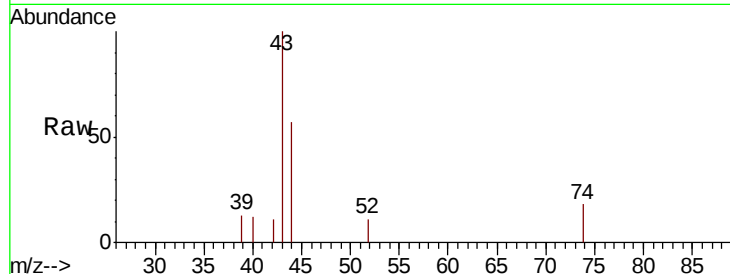




#18  
Methyl Acetate  
Concen: 1.430 ug/l  
RT: 4.29 min Scan# 792  
Delta R.T. 0.01 min  
Lab File: VN064437.D  
Acq: 4 Nov 2020 15:36

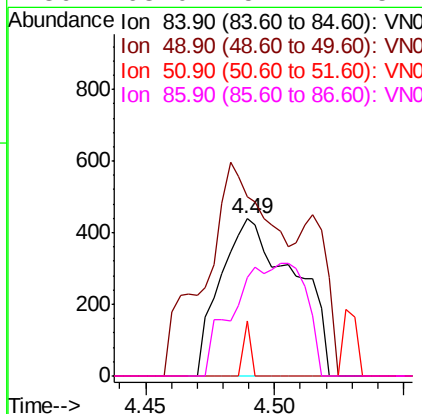
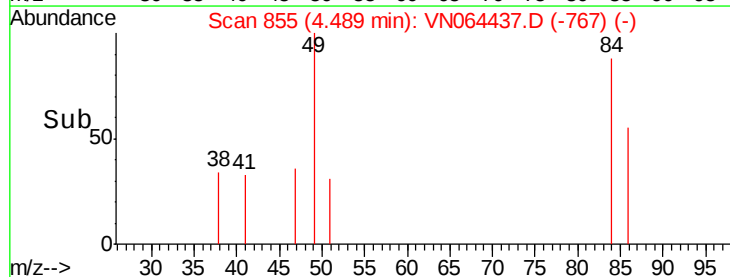
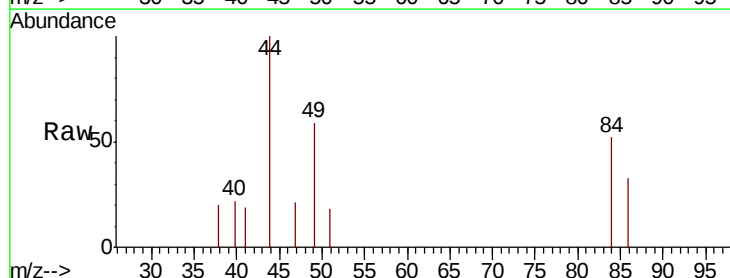
Instrument :  
MSVOA\_N  
ClientSampled :  
2015

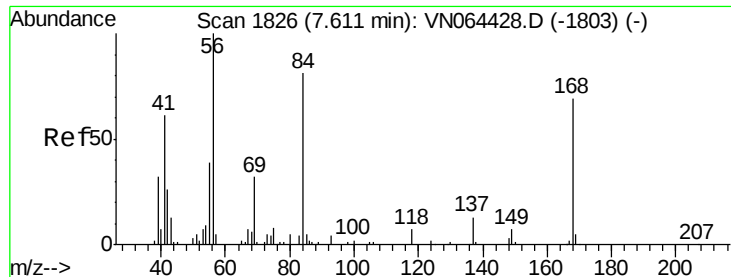
Tot Ion: 43 Resp: 4788  
Ion Ratio Lower Upper  
43 100  
74 15.0 17.0 25.4#



#20  
Methylene Chloride  
Concen: 0.260 ug/l  
RT: 4.49 min Scan# 855  
Delta R.T. -0.02 min  
Lab File: VN064437.D  
Acq: 4 Nov 2020 15:36

Tgt Ion: 84 Resp: 877  
Ion Ratio Lower Upper  
84 100  
49 114.2 110.1 165.1  
51 34.9 33.6 50.4  
86 63.0 52.1 78.1

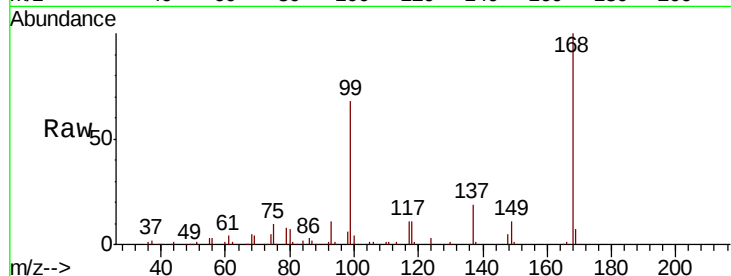




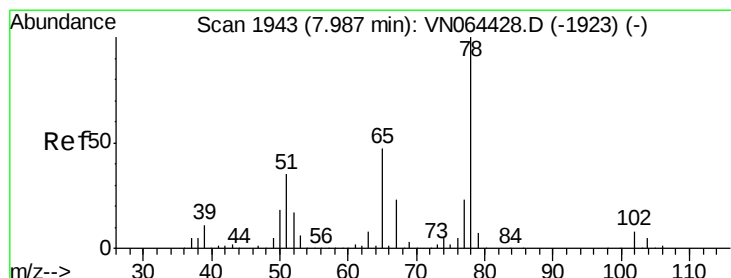
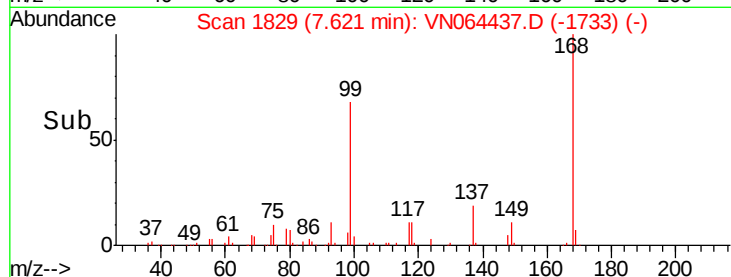
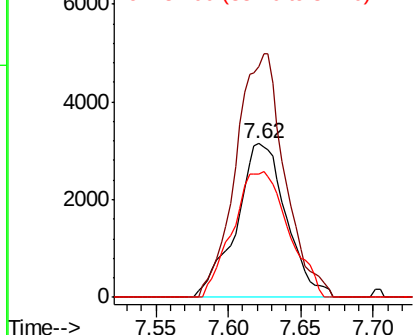
#31  
Cyclohexane  
Concen: 1.387 ug/l  
RT: 7.62 min Scan# 1829  
Delta R.T. 0.01 min  
Lab File: VN064437.D  
Acq: 4 Nov 2020 15:36

Instrument :  
MSVOA\_N  
ClientSampled :  
2015

Tot Ion: 56 Resp: 7538  
Ion Ratio Lower Upper  
56 100  
69 150.2 25.6 38.4#  
84 80.3 63.0 94.6

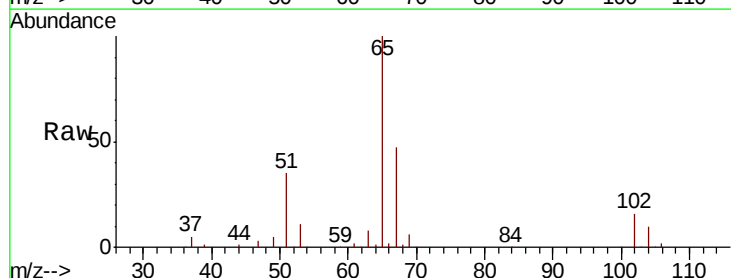


Abundance Ion 56.00 (55.70 to 56.70): VN0  
Ion 69.00 (68.70 to 69.70): VN0  
Ion 84.00 (83.70 to 84.70): VN0

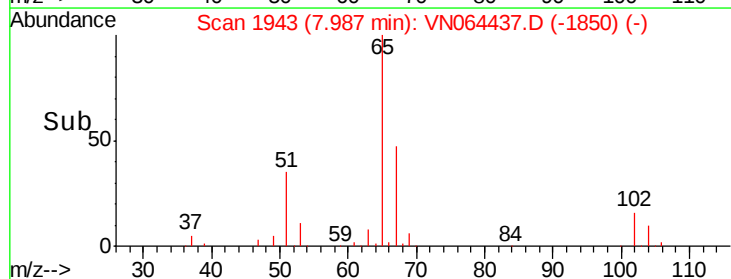
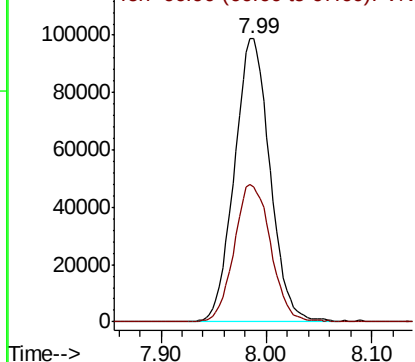


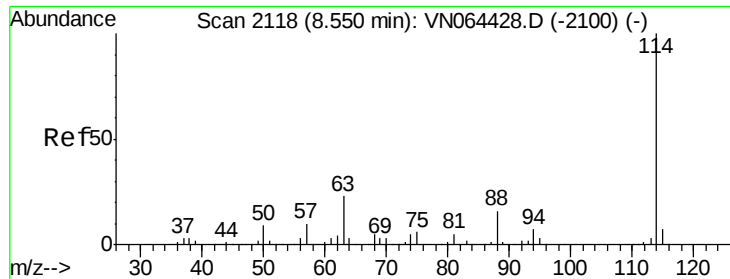
#33  
1,2-Dichloroethane-d4  
Concen: 51.782 ug/l  
RT: 7.99 min Scan# 1943  
Delta R.T. 0.00 min  
Lab File: VN064437.D  
Acq: 4 Nov 2020 15:36

Tgt Ion: 65 Resp: 231475  
Ion Ratio Lower Upper  
65 100  
67 49.8 0.0 101.6



Abundance Ion 64.90 (64.60 to 65.60): VN0  
Ion 66.90 (66.60 to 67.60): VN0

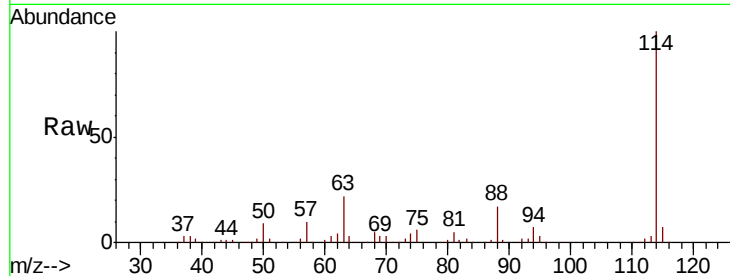




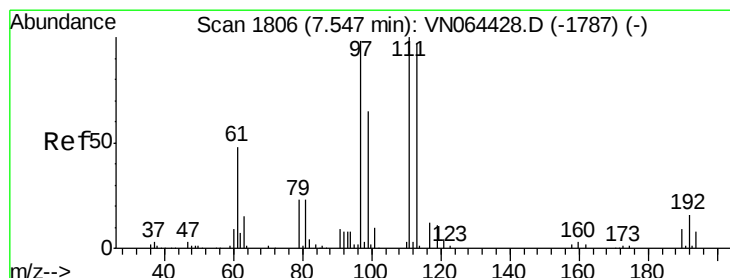
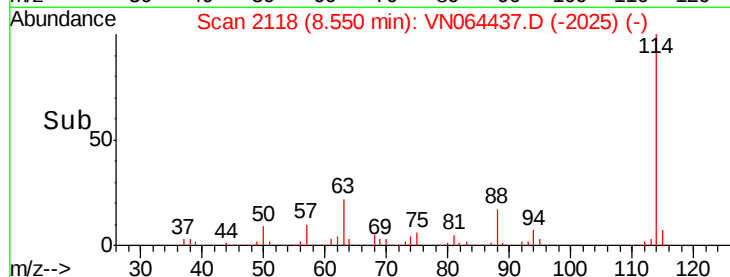
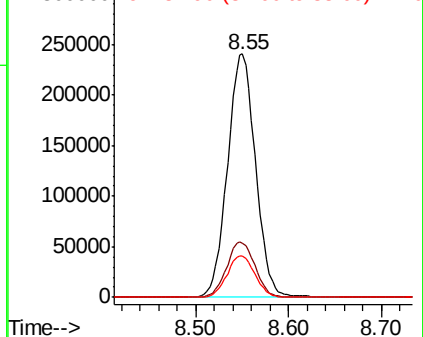
#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 8.55 min Scan# 2118  
Delta R.T. 0.00 min  
Lab File: VN064437.D  
Acq: 4 Nov 2020 15:36

Instrument :  
MSVOA\_N  
ClientSampleId :  
2015

Tot Ion:114 Resp: 504081  
Ion Ratio Lower Upper  
114 100  
63 22.3 0.0 45.6  
88 16.8 0.0 32.8

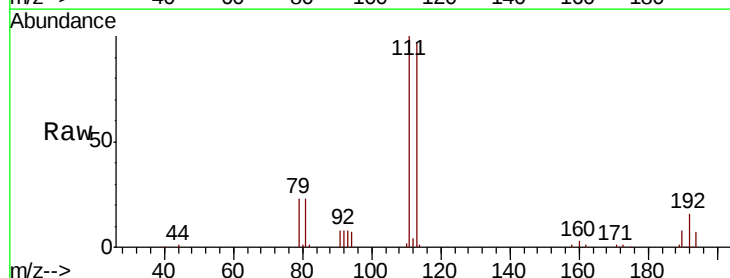


Abundance Ion 113.90 (113.60 to 114.60): V  
Ion 63.00 (62.70 to 63.70): VN  
Ion 87.90 (87.60 to 88.60): VN

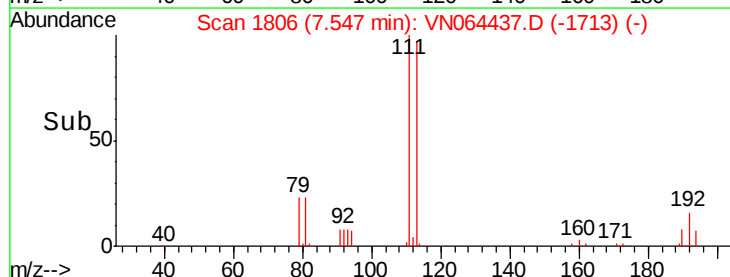
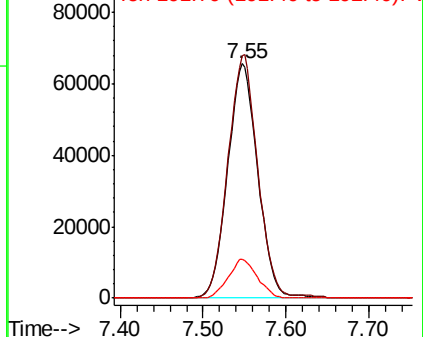


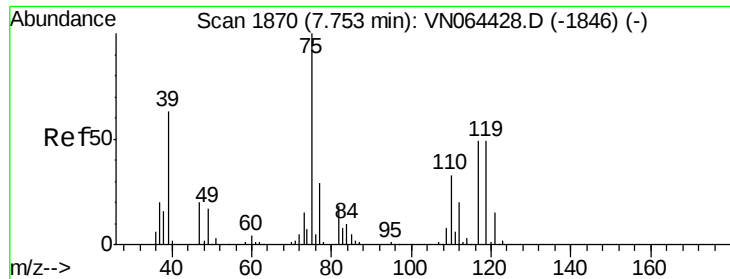
#35  
Dibromofluoromethane  
Concen: 48.349 ug/l  
RT: 7.55 min Scan# 1806  
Delta R.T. 0.00 min  
Lab File: VN064437.D  
Acq: 4 Nov 2020 15:36

Tgt Ion:113 Resp: 165939  
Ion Ratio Lower Upper  
113 100  
111 102.1 81.1 121.7  
192 15.9 12.8 19.2



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: 4.687 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. -0.13 min

Lab File: VN064437.D

Acq: 4 Nov 2020 15:36

Instrument :

MSVOA\_N

ClientSampled :

2015

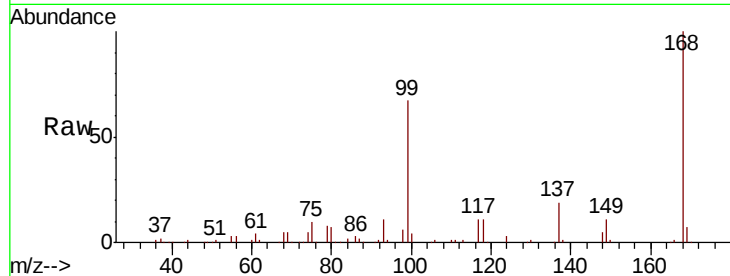
Tot Ion: 75 Resp: 24959

Ion Ratio Lower Upper

75 100

110 8.5 16.0 48.0#

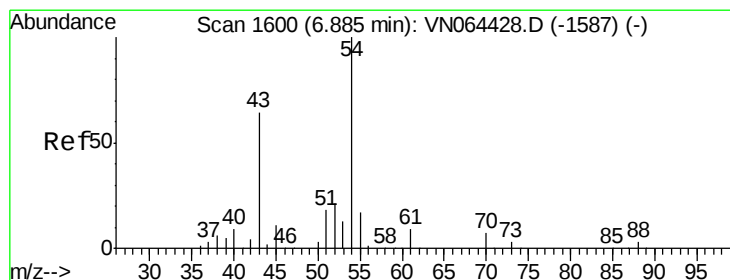
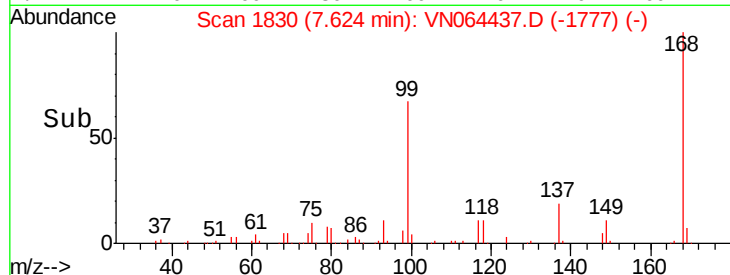
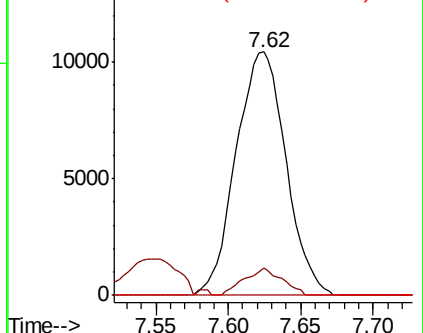
77 0.0 24.0 36.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 109.90 (109.60 to 110.60): VN0

Ion 76.90 (76.60 to 77.60): VN0



#37

Ethyl Acetate

Concen: 0.811 ug/l

RT: 6.88 min Scan# 1600

Delta R.T. 0.00 min

Lab File: VN064437.D

Acq: 4 Nov 2020 15:36

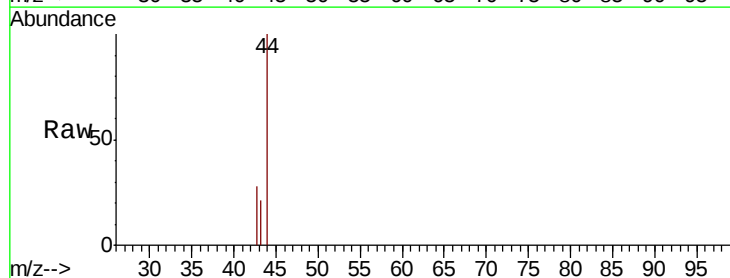
Tgt Ion: 43 Resp: 268

Ion Ratio Lower Upper

43 100

61 0.0 10.0 15.0#

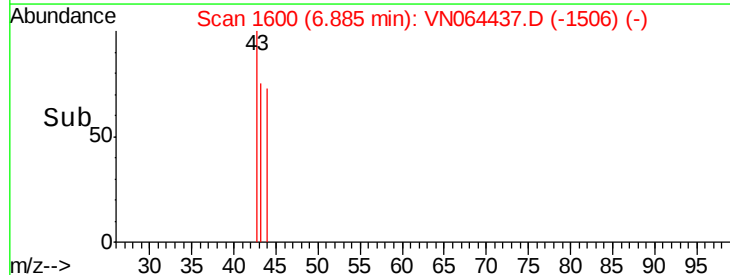
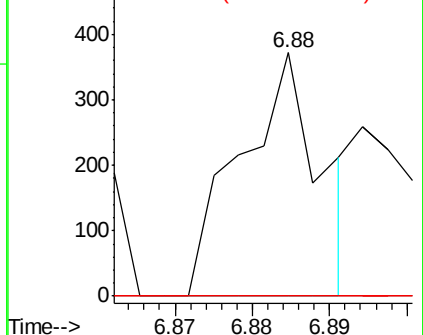
70 0.0 7.1 10.7#

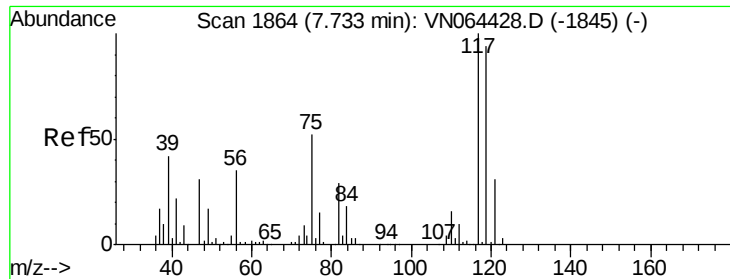


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 60.90 (60.60 to 61.60): VN0

Ion 70.00 (69.70 to 70.70): VN0

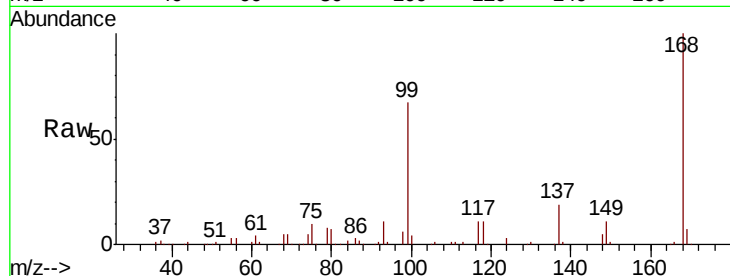




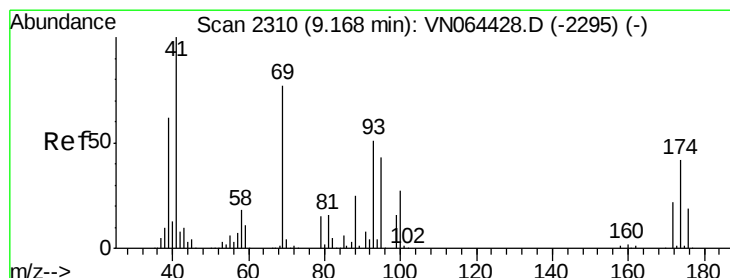
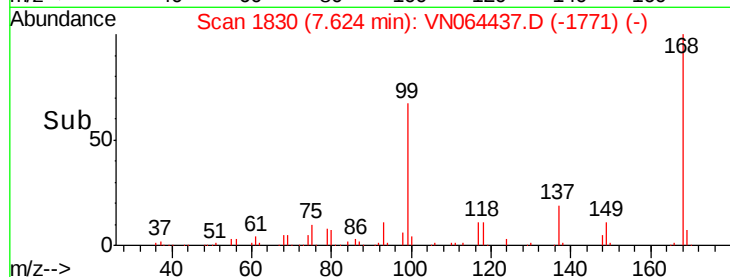
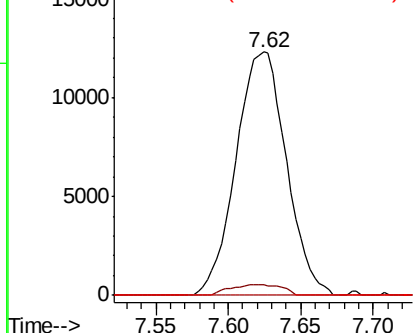
#38  
Carbon Tetrachloride  
Concen: 5.224 ug/l  
RT: 7.62 min Scan# 1830  
Delta R.T. -0.11 min  
Lab File: VN064437.D  
Acq: 4 Nov 2020 15:36

Instrument :  
MSVOA\_N  
ClientSampleId :  
2015

Tot Ion:117 Resp: 29734  
Ion Ratio Lower Upper  
117 100  
119 4.3 75.5 113.3#  
121 0.0 24.4 36.6#

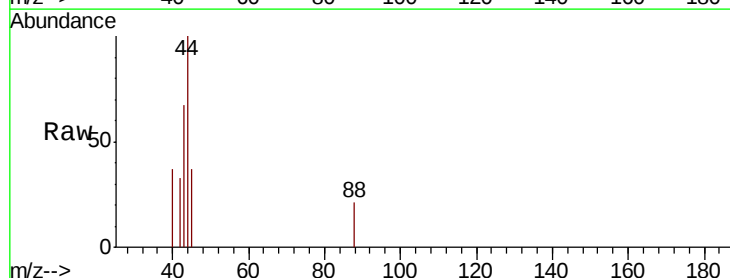


Abundance Ion 116.80 (116.50 to 117.50): V  
Ion 118.80 (118.50 to 119.50): V  
Ion 120.80 (120.50 to 121.50): V

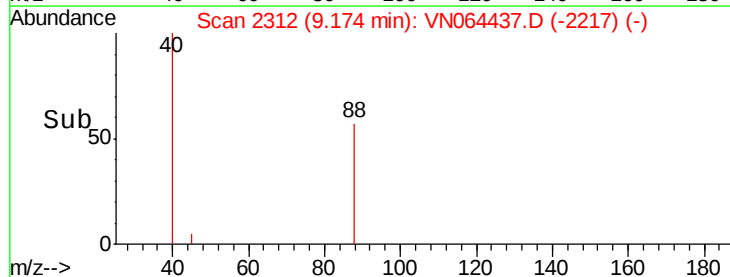
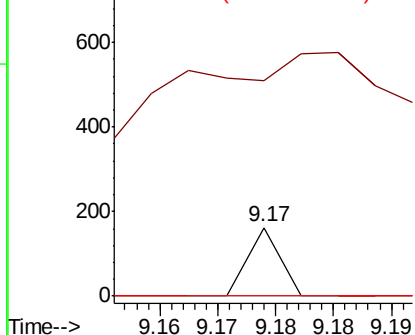


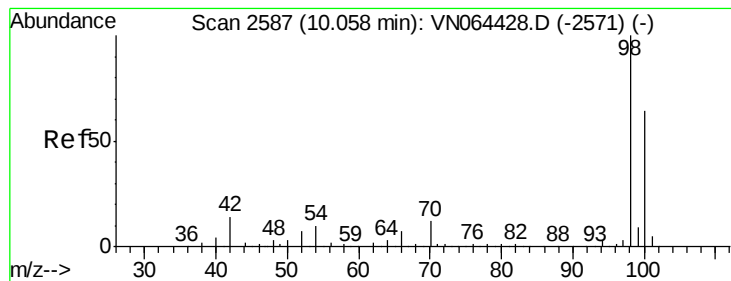
#49  
1,4-Dioxane  
Concen: 0.540 ug/l  
RT: 9.17 min Scan# 2312  
Delta R.T. 0.01 min  
Lab File: VN064437.D  
Acq: 4 Nov 2020 15:36

Tgt Ion: 88 Resp: 31  
Ion Ratio Lower Upper  
88 100  
43 722.6 31.0 46.6#  
58 0.0 58.4 87.6#



Abundance Ion 88.00 (87.70 to 88.70): V  
Ion 43.00 (42.70 to 43.70): V  
Ion 58.00 (57.70 to 58.70): V





#50

Toluene-d8

Concen: 47.997 ug/l

RT: 10.06 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN064437.D

Acq: 4 Nov 2020 15:36

Instrument :

MSVOA\_N

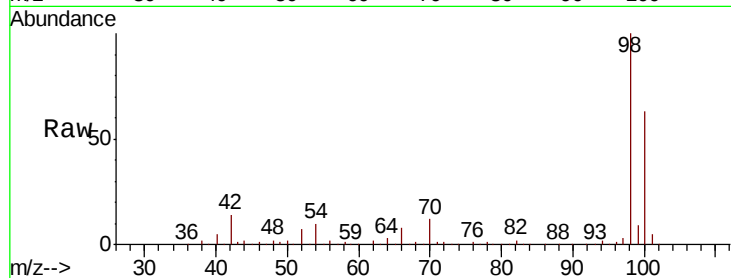
ClientSampled :  
2015

Tot Ion: 98 Resp: 636679

Ion Ratio Lower Upper

98 100

100 63.9 50.7 76.1



Abundance Ion 98.00 (97.70 to 98.70): VN064428.D (-2571) (-)

Ion 100.00 (99.70 to 100.70): VN064428.D (-2571) (-)

10.06

400000

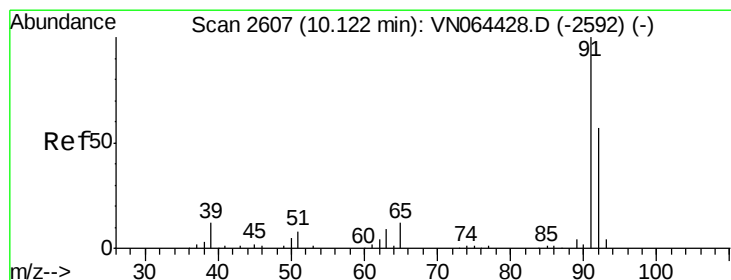
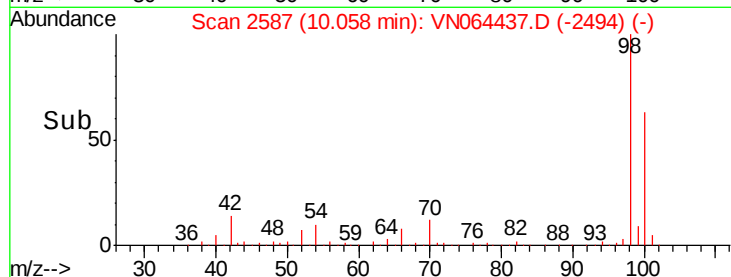
300000

200000

100000

0

Time-->



#52

Toluene

Concen: 0.229 ug/l

RT: 10.13 min Scan# 2609

Delta R.T. 0.01 min

Lab File: VN064437.D

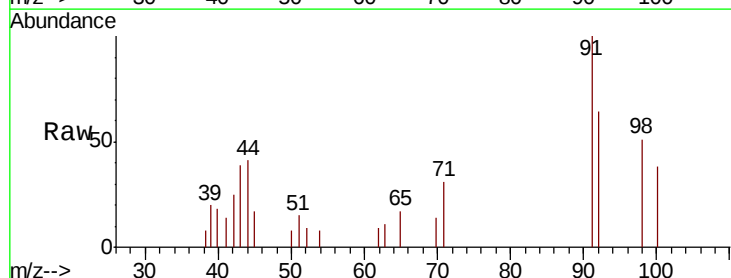
Acq: 4 Nov 2020 15:36

Tgt Ion: 92 Resp: 2187

Ion Ratio Lower Upper

92 100

91 167.7 139.6 209.4



Abundance Ion 92.00 (91.70 to 92.70): VN064428.D (-2592) (-)

Ion 91.00 (90.70 to 91.70): VN064428.D (-2592) (-)

2000

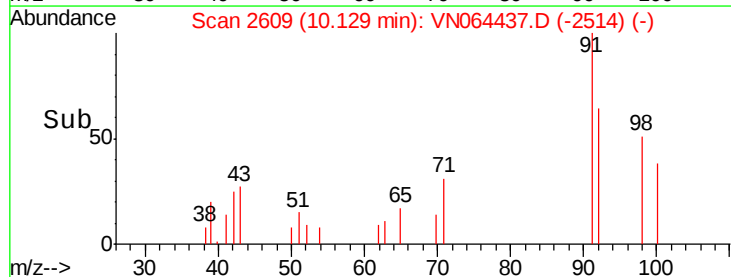
1500

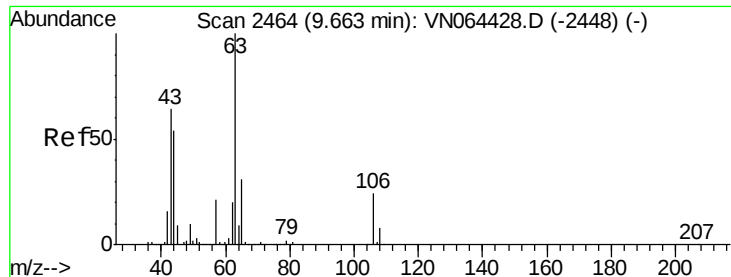
1000

500

0

Time-->

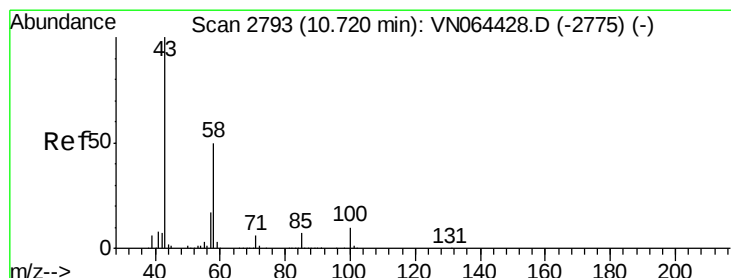
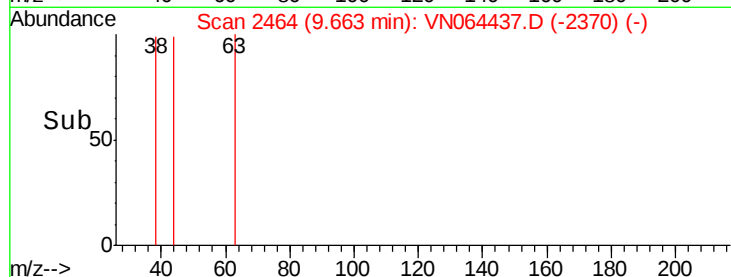
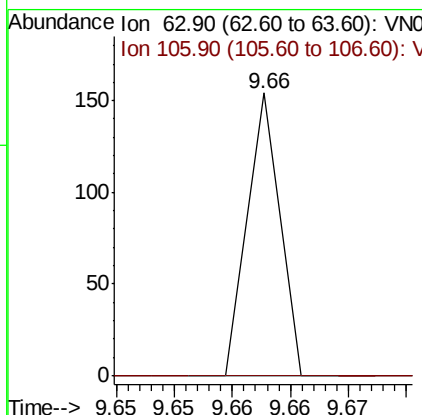
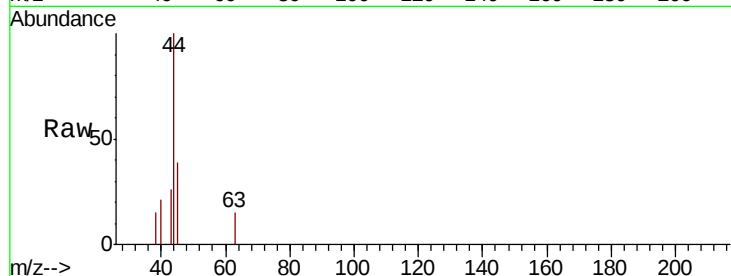




#58  
2-Chloroethyl Vinyl ether  
Concen: 21.547 ug/l  
RT: 9.66 min Scan# 2464  
Delta R.T. 0.00 min  
Lab File: VN064437.D  
Acq: 4 Nov 2020 15:36

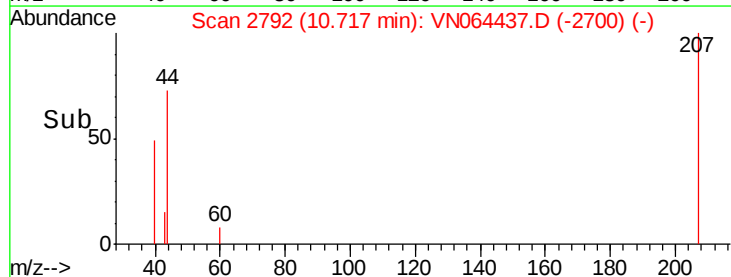
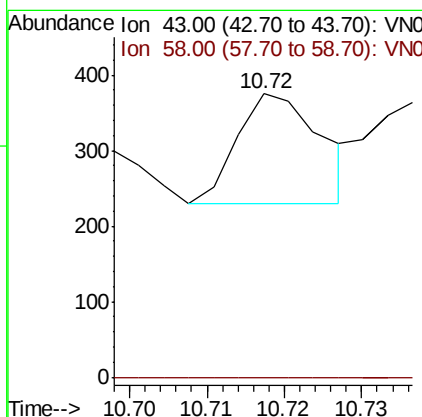
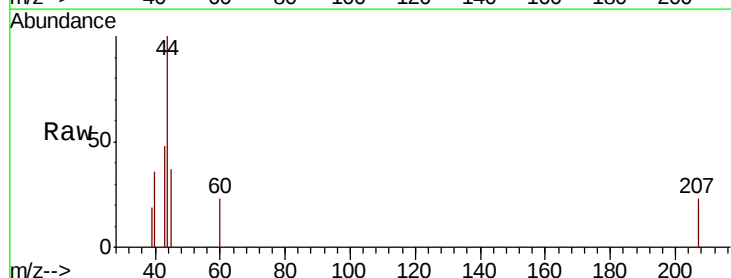
Instrument :  
MSVOA\_N  
ClientSampled :  
2015

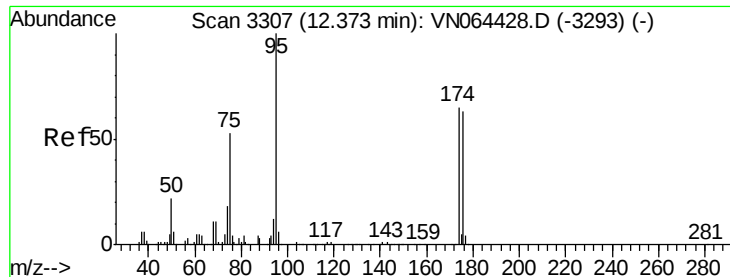
Tot Ion: 63 Resp: 30  
Ion Ratio Lower Upper  
63 100  
106 0.0 19.5 29.3#



#59  
2-Hexanone  
Concen: 4.054 ug/l  
RT: 10.72 min Scan# 2792  
Delta R.T. -0.00 min  
Lab File: VN064437.D  
Acq: 4 Nov 2020 15:36

Tgt Ion: 43 Resp: 110  
Ion Ratio Lower Upper  
43 100  
58 0.0 24.7 74.1#

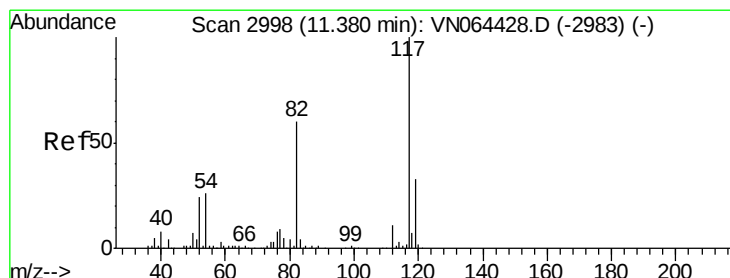
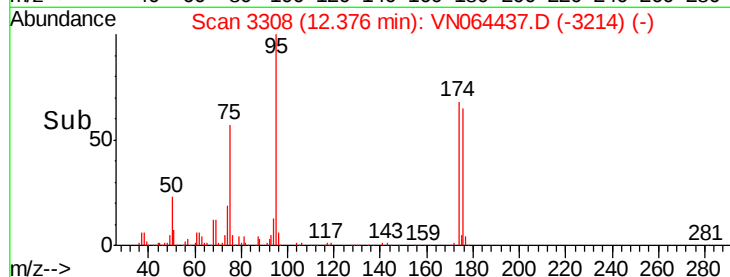
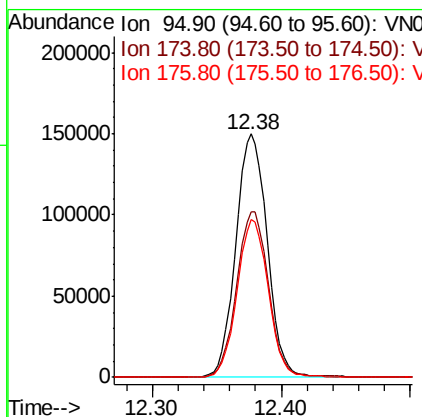
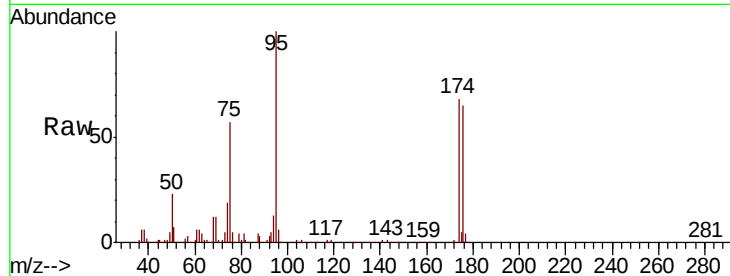




#62  
4-Bromofluorobenzene  
Concen: 50.603 ug/l  
RT: 12.38 min Scan# 3308  
Delta R.T. 0.00 min  
Lab File: VN064437.D  
Acq: 4 Nov 2020 15:36

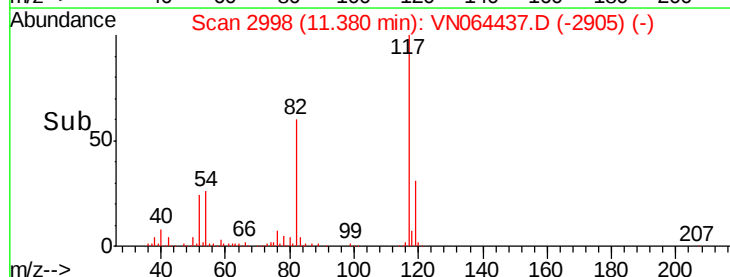
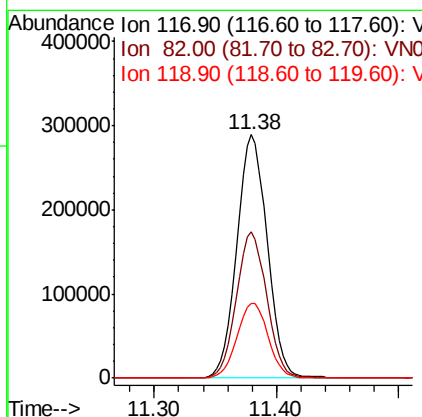
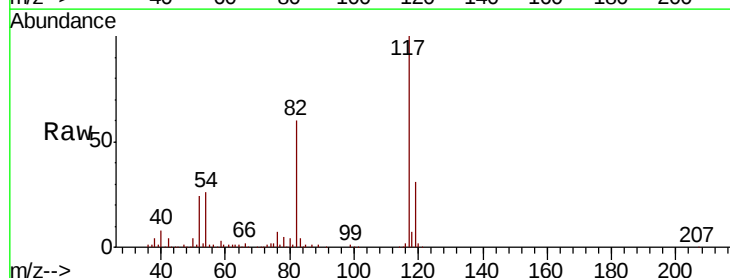
Instrument :  
MSVOA\_N  
ClientSampled :  
2015

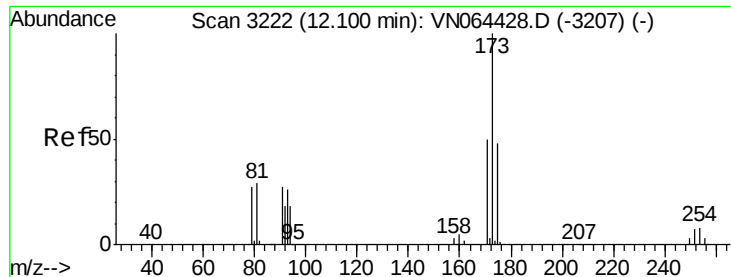
Tot Ion: 95 Resp: 253861  
Ion Ratio Lower Upper  
95 100  
174 69.0 0.0 132.6  
176 64.6 0.0 129.2



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.38 min Scan# 2998  
Delta R.T. 0.00 min  
Lab File: VN064437.D  
Acq: 4 Nov 2020 15:36

Tgt Ion: 117 Resp: 497686  
Ion Ratio Lower Upper  
117 100  
82 60.0 48.1 72.1  
119 30.9 26.2 39.4





#71

Bromoform

Concen: 1.351 ug/l

RT: 12.36 min Scan# 3303

Delta R.T. 0.26 min

Lab File: VN064437.D

Acq: 4 Nov 2020 15:36

Instrument :

MSVOA\_N

ClientSampled :  
2015

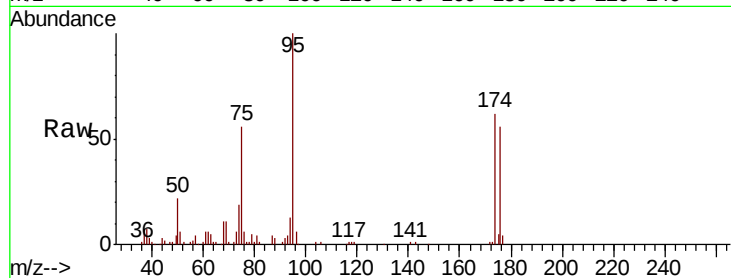
Tot Ion:173 Resp: 239

Ion Ratio Lower Upper

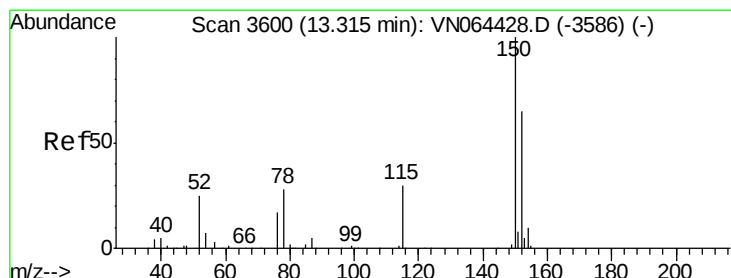
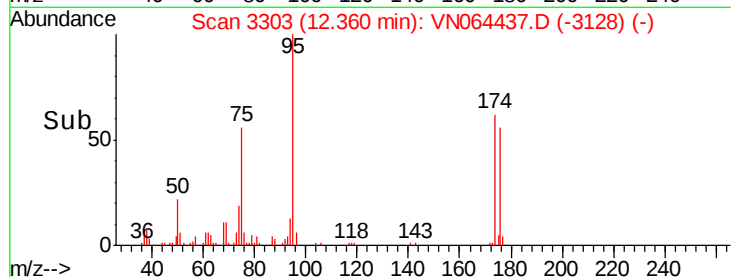
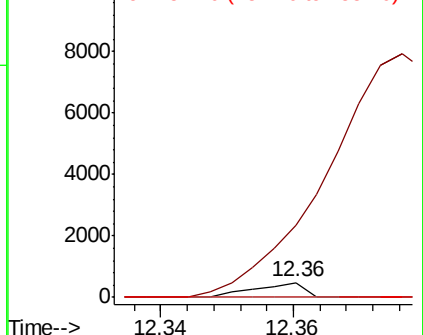
173 100

175 0.0 23.7 71.1#

254 0.0 0.0 0.0



Abundance Ion 172.70 (172.40 to 173.40): V  
Ion 174.70 (174.40 to 175.40): V  
Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3601

Delta R.T. 0.00 min

Lab File: VN064437.D

Acq: 4 Nov 2020 15:36

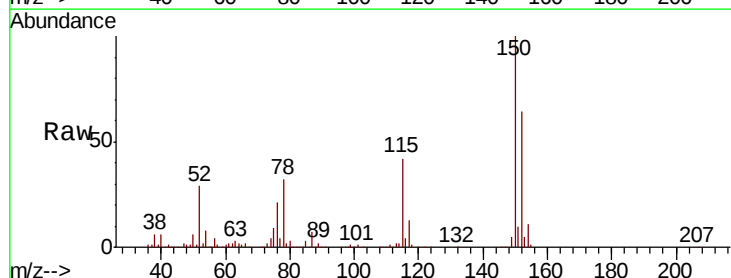
Tgt Ion:152 Resp: 205857

Ion Ratio Lower Upper

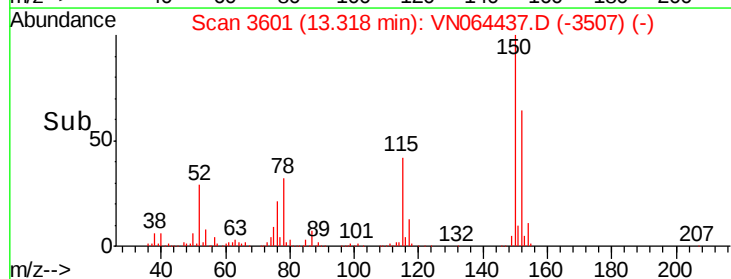
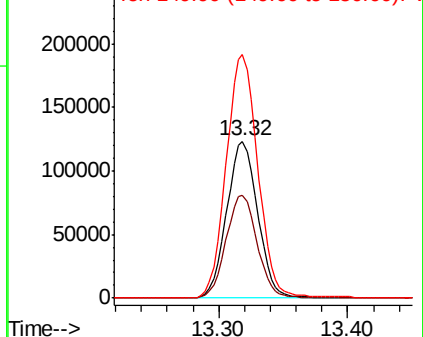
152 100

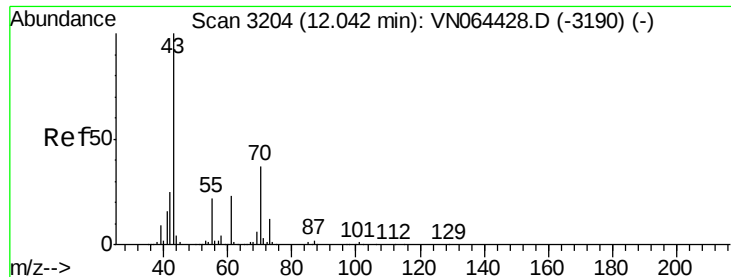
115 65.9 32.0 96.0

150 158.7 0.0 353.8



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





#74

N-amvl acetate

Concen: 1.239 ug/l

RT: 12.06 min Scan# 3211

Delta R.T. 0.02 min

Lab File: VN064437.D

Acq: 4 Nov 2020 15:36

Instrument :

MSVOA\_N

ClientSampleId :  
2015

Tot Ion: 43 Resp: 200

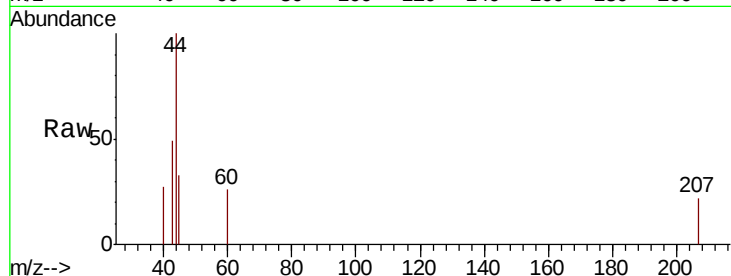
Ion Ratio Lower Upper

43 100

70 0.0 29.6 44.4#

55 0.0 18.4 27.6#

61 0.0 17.8 26.6#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 70.00 (69.70 to 70.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

600

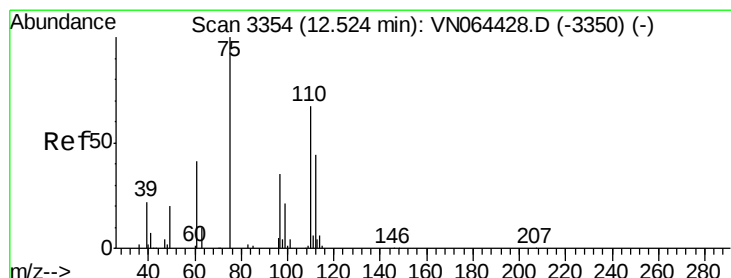
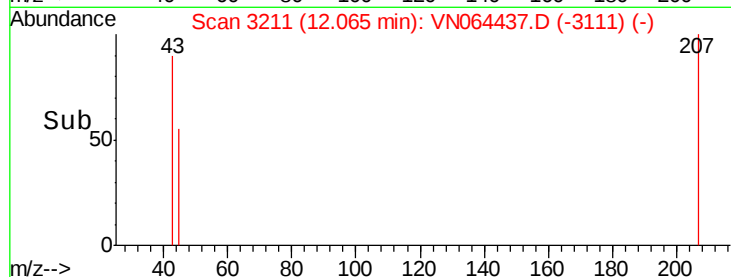
400

200

0

12.04 12.06 12.08

Time-->



#76

1,2,3-Trichloropropane

Concen: 28.452 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN064437.D

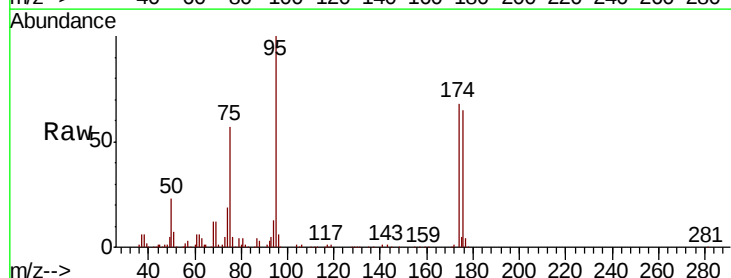
Acq: 4 Nov 2020 15:36

Tgt Ion: 75 Resp: 141911

Ion Ratio Lower Upper

75 100

77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

100000

80000

60000

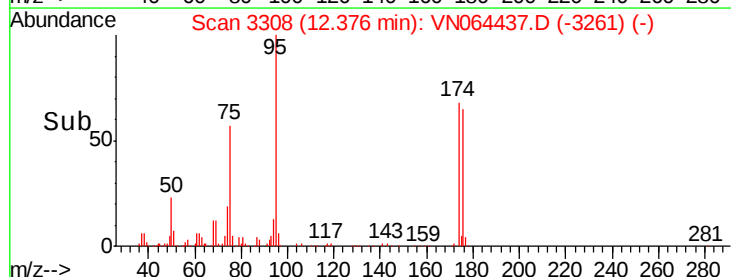
40000

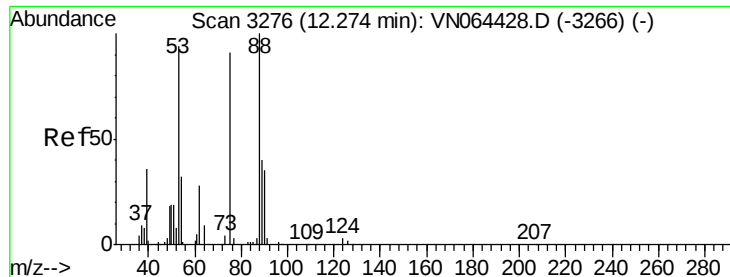
20000

0

12.30 12.40

Time-->





#81

trans-1,4-Dichloro-2-butene

Concen: 79.441 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN064437.D

Acq: 4 Nov 2020 15:36

Instrument :

MSVOA\_N

ClientSampled :  
2015

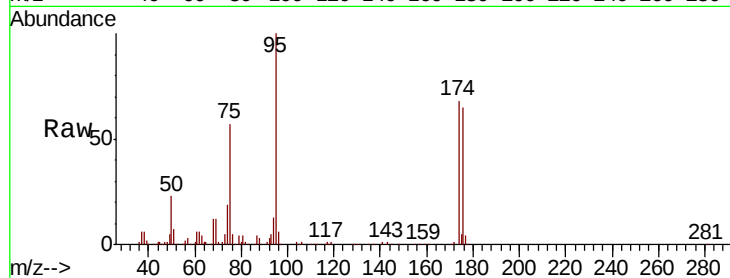
Tot Ion: 75 Resp: 141911

Ion Ratio Lower Upper

75 100

53 0.1 84.0 126.0#

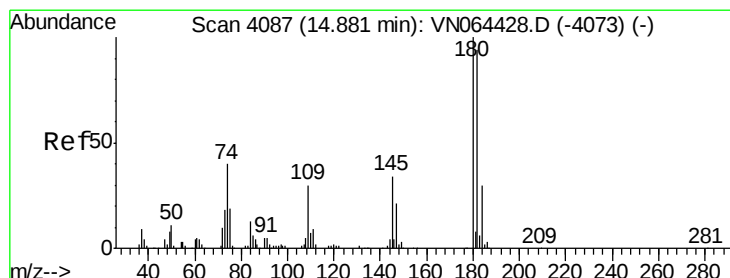
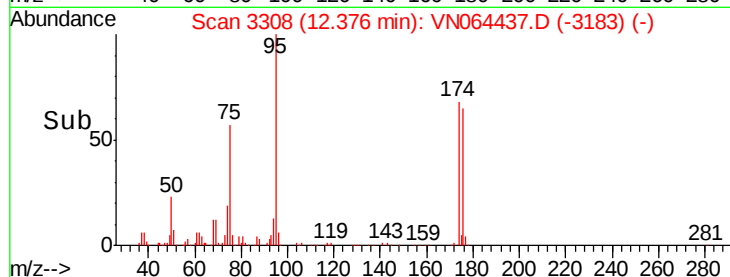
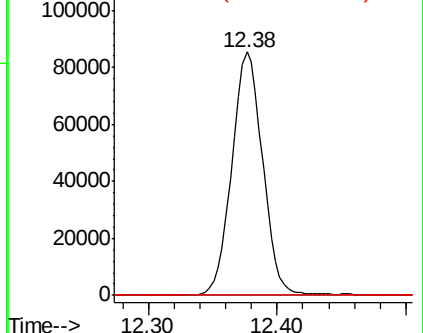
89 0.0 36.3 54.5#



Abundance Ion 74.90 (74.60 to 75.60): VN064437.D (-3183) (-)

Ion 53.00 (52.70 to 53.70): VN064437.D (-3183) (-)

Ion 88.90 (88.60 to 89.60): VN064437.D (-3183) (-)



#93

1,2,4-Trichlorobenzene

Concen: 2.704 ug/l

RT: 14.89 min Scan# 4090

Delta R.T. 0.01 min

Lab File: VN064437.D

Acq: 4 Nov 2020 15:36

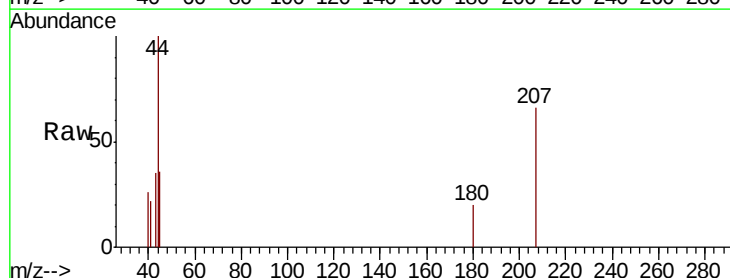
Tgt Ion: 180 Resp: 141

Ion Ratio Lower Upper

180 100

182 20.6 47.3 142.0#

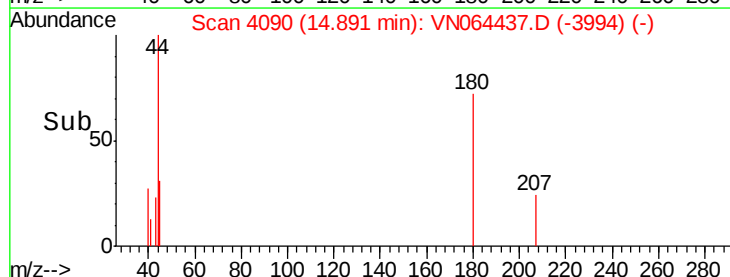
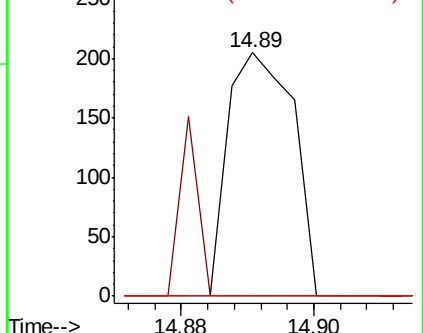
145 0.0 16.7 50.1#

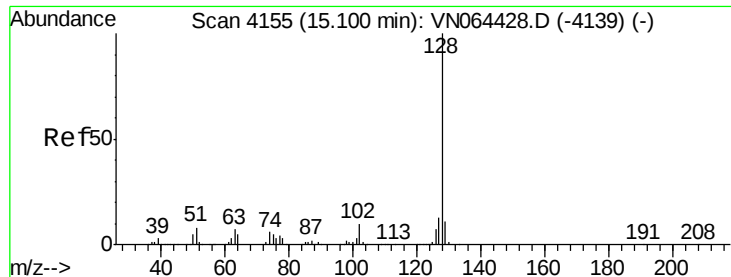


Abundance Ion 179.80 (179.50 to 180.50): VN064437.D (-3994) (-)

Ion 181.80 (181.50 to 182.50): VN064437.D (-3994) (-)

Ion 144.80 (144.50 to 145.50): VN064437.D (-3994) (-)





#95

Naphthalene

Concen: 3.698 ug/l

RT: 15.11 min Scan# 4159

Delta R.T. 0.01 min

Lab File: VN064437.D

Acq: 4 Nov 2020 15:36

Instrument :

MSVOA\_N

ClientSampleId :  
2015

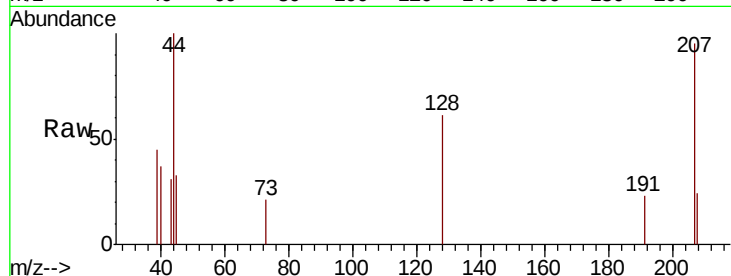
Tot Ion:128 Resp: 915

Ion Ratio Lower Upper

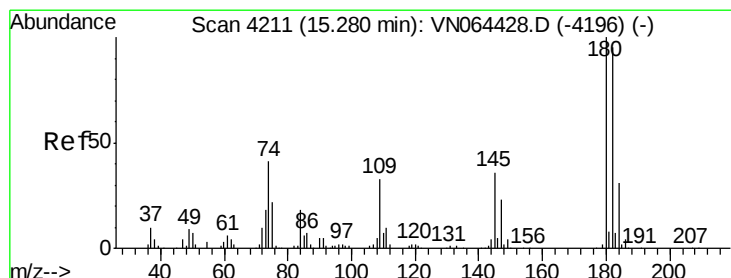
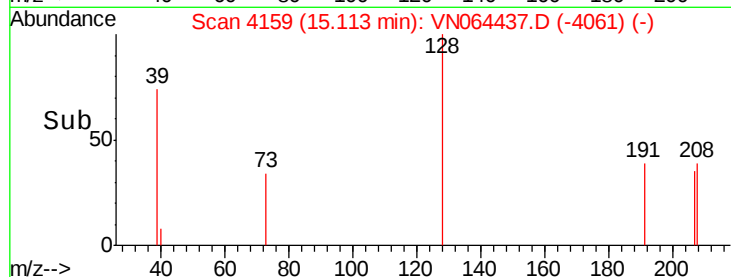
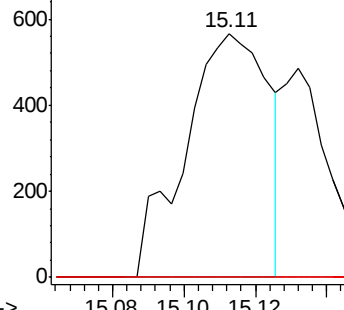
128 100

127 0.0 10.5 15.7#

129 0.0 8.8 13.2#



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: 2.785 ug/l

RT: 15.28 min Scan# 4211

Delta R.T. 0.00 min

Lab File: VN064437.D

Acq: 4 Nov 2020 15:36

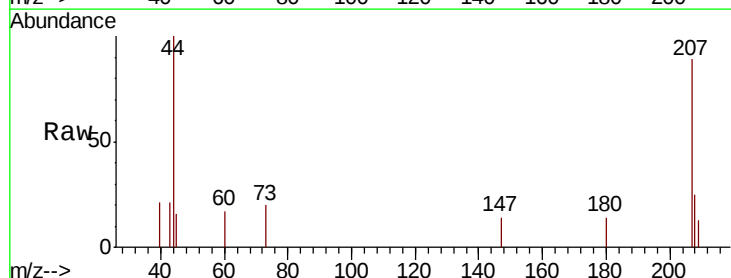
Tgt Ion:180 Resp: 31

Ion Ratio Lower Upper

180 100

182 0.0 47.7 143.1#

145 0.0 18.3 54.8#



Abundance Ion 179.80 (179.50 to 180.50): V  
Ion 181.80 (181.50 to 182.50): V  
Ion 144.90 (144.60 to 145.60): V

