

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN112718\  
 Data File : VN052475.D  
 Acq On : 27 Nov 2018 13:40  
 Operator : MD\SY  
 Sample : VN1127MBL01  
 Misc : 5.00µg/10mL/100µL/5.00mL/MSVOA\_N/MEOH  
 ALS Vial : 10 Sample Multiplier: 28

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN1127MBL01

Quant Time: Nov 28 06:09:08 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N112718W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Nov 28 01:11:38 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.67  | 168  | 1270964  | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.59  | 114  | 1950928  | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.41 | 117  | 1678220  | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.35 | 152  | 595130   | 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   | 672258   | 48.58 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 97.16%  |          |
| 35) Dibromofluoromethane    | 7.59  | 113  | 598545   | 49.77 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 99.54%  |          |
| 50) Toluene-d8              | 10.09 | 98   | 2375429  | 50.74 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 101.48% |          |
| 62) 4-Bromofluorobenzene    | 12.40 | 95   | 723281   | 45.97 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 91.94%  |          |

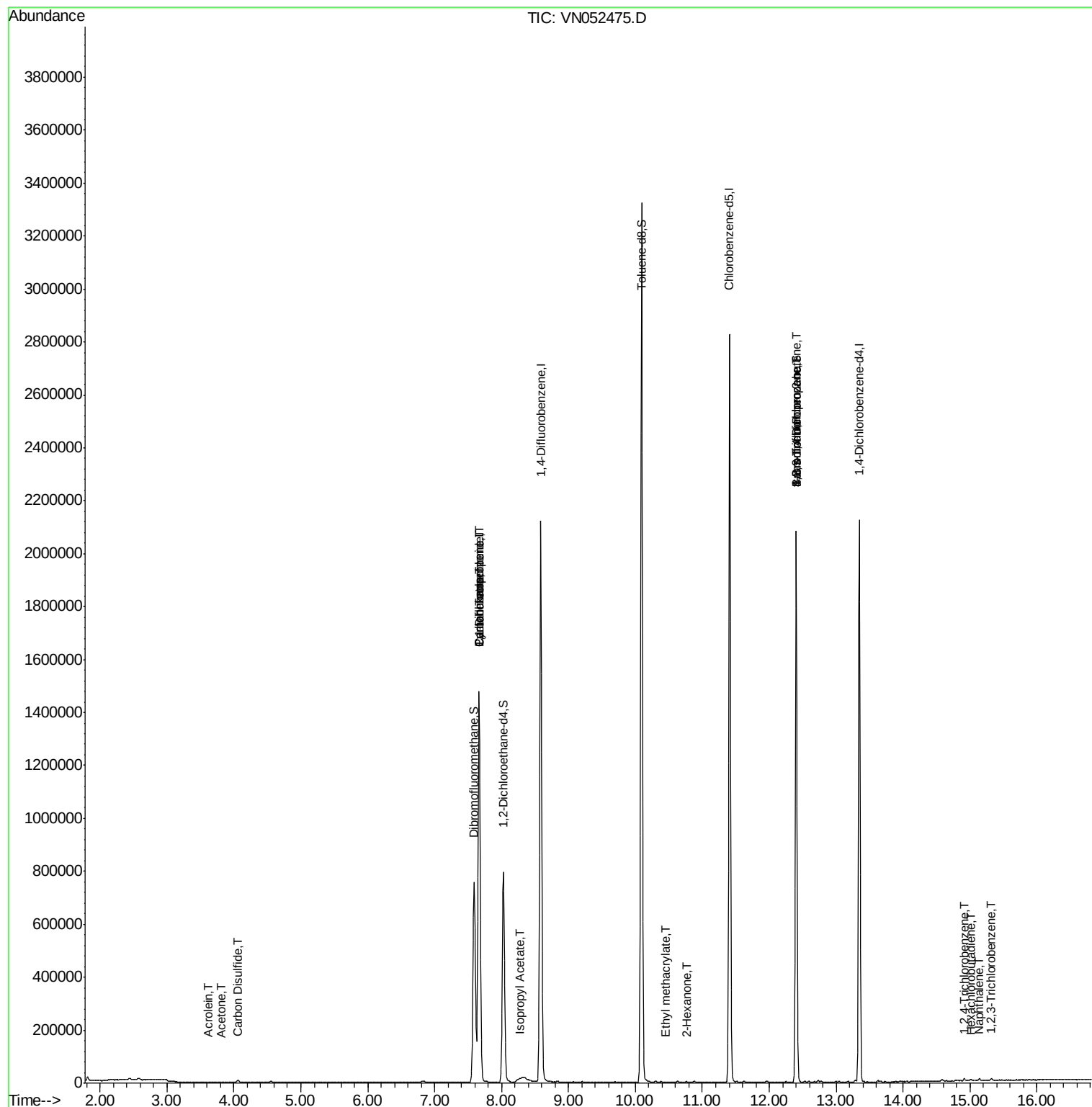
| Target Compounds               | R.T.  | QIon | Response | Conc    | Units  | Qvalue |
|--------------------------------|-------|------|----------|---------|--------|--------|
| 13) Acrolein                   | 3.61  | 56   | 640      | 33.931  | ug/l # | 68     |
| 16) Acetone                    | 3.82  | 43   | 864      | 0.237   | ug/l # | 42     |
| 17) Carbon Disulfide           | 4.06  | 76   | 12482    | 0.333   | ug/l   | 97     |
| 31) Cyclohexane                | 7.66  | 56   | 22498    | 0.583   | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 7.66  | 75   | 87124    | 4.729   | ug/l # | 50     |
| 38) Carbon Tetrachloride       | 7.66  | 117  | 112353   | 6.737   | ug/l # | 16     |
| 43) Isopropyl Acetate          | 8.27  | 43   | 14395    | 0.757   | ug/l # | 51     |
| 56) Ethyl methacrylate         | 10.44 | 69   | 29       | 2.695   | ug/l # | 1      |
| 59) 2-Hexanone                 | 10.76 | 43   | 2159     | 0.301   | ug/l # | 57     |
| 71) Bromoform                  | 12.40 | 173  | 4536     | 0.569   | ug/l # | 1      |
| 76) 1,2,3-Trichloropropane     | 12.40 | 75   | 346998   | 37.811  | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.40 | 75   | 346998   | 126.270 | ug/l # | 11     |
| 93) 1,2,4-Trichlorobenzene     | 14.91 | 180  | 3028     | 3.100   | ug/l   | 98     |
| 94) Hexachlorobutadiene        | 15.01 | 225  | 1316     | 0.212   | ug/l   | 89     |
| 95) Naphthalene                | 15.14 | 128  | 6602     | 3.703   | ug/l # | 95     |
| 96) 1,2,3-Trichlorobenzene     | 15.32 | 180  | 3279     | 3.046   | ug/l   | 90     |

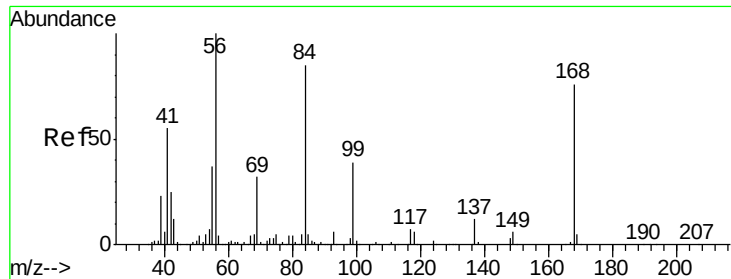
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_N\DATA\VN112718\  
Data File : VN052475.D  
Acq On : 27 Nov 2018 13:40  
Operator : MD\SY  
Sample : VN1127MBL01  
Misc : 5.00µg/10mL/100µL/5.00mL/MSVOA\_N/MEOH  
ALS Vial : 10 Sample Multiplier: 28

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN1127MBL01

Quant Time: Nov 28 06:09:08 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_N\METHODS\82N112718W.M  
Quant Title : SW846 8260  
QLast Update : Wed Nov 28 01:11:38 2018  
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: VN052475.D

Acq: 27 Nov 2018 13:40

Instrument :

MSVOA\_N

ClientSampleId :

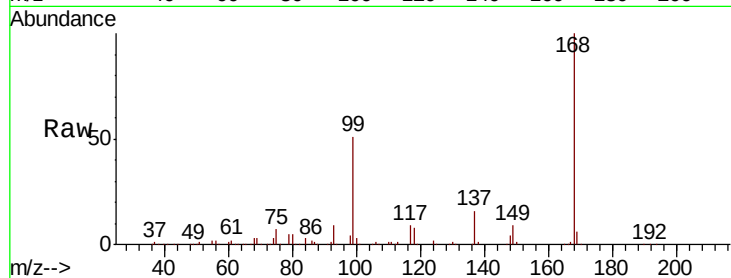
VN1127MBL01

Tot Ion:168 Resp: 1270964

Ion Ratio Lower Upper

168 100

99 51.2 41.7 62.5



Abundance Ion 167.90 (167.60 to 168.60): VN052475.D

Ion 98.90 (98.60 to 99.60): VN052475.D

7.67

600000

500000

400000

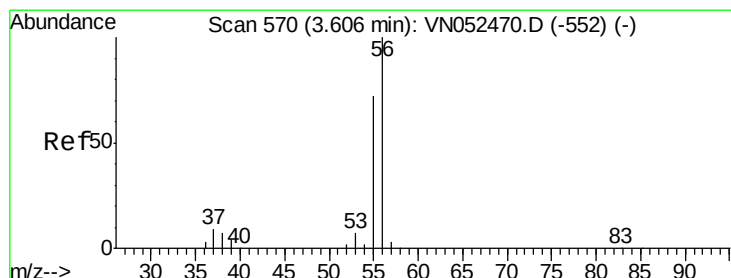
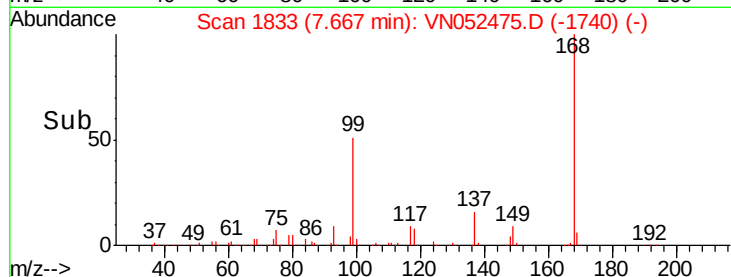
300000

200000

100000

0

Time-->



#13

Acrolein

Concen: 33.931 ug/l

RT: 3.61 min Scan# 570

Delta R.T. -0.00 min

Lab File: VN052475.D

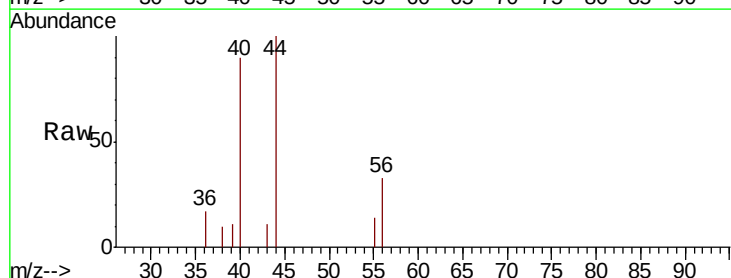
Acq: 27 Nov 2018 13:40

Tgt Ion: 56 Resp: 640

Ion Ratio Lower Upper

56 100

55 44.2 56.8 85.2#



Abundance Ion 56.00 (55.70 to 56.70): VN052475.D

Ion 55.00 (54.70 to 55.70): VN052475.D

3.61

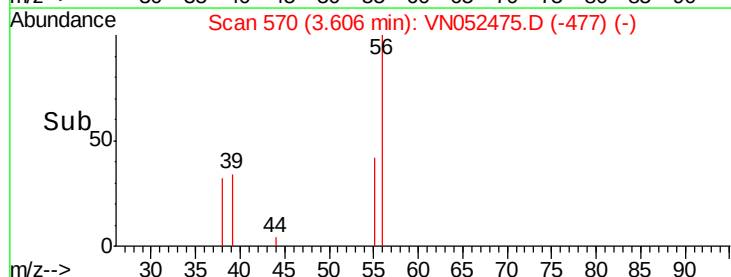
600

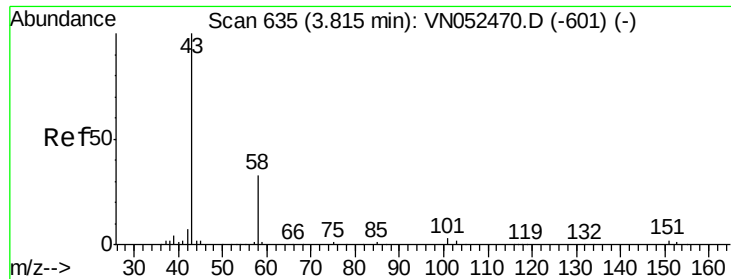
400

200

0

Time-->





#16

Acetone

Concen: 0.237 ug/l

RT: 3.82 min Scan# 638

Delta R.T. 0.01 min

Lab File: VN052475.D

Acq: 27 Nov 2018 13:40

Instrument :

MSVOA\_N

ClientSampleId :

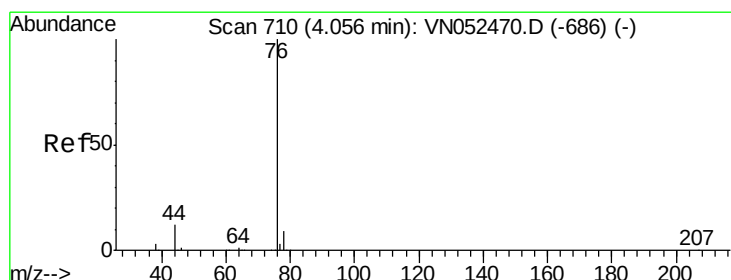
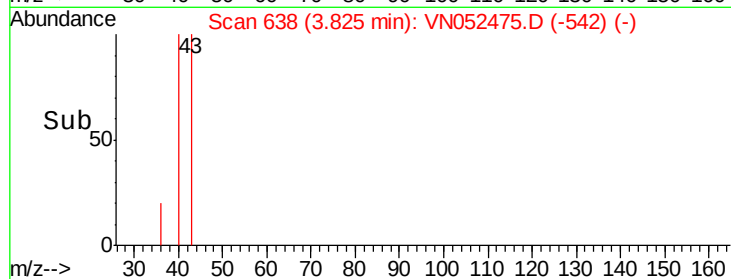
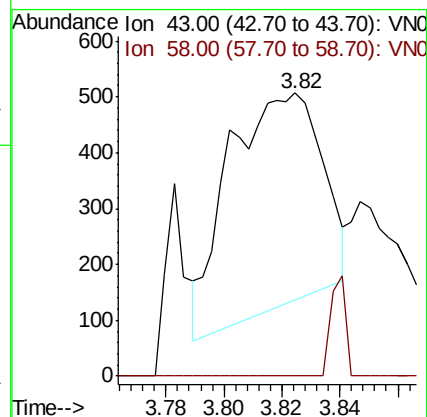
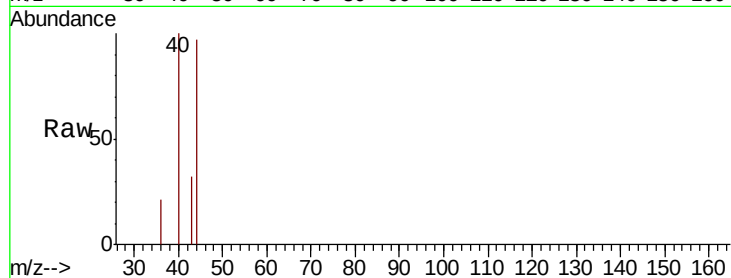
VN1127MBL01

Tot Ion: 43 Resp: 864

Ion Ratio Lower Upper

43 100

58 0.0 26.0 39.0#



#17

Carbon Disulfide

Concen: 0.333 ug/l

RT: 4.06 min Scan# 710

Delta R.T. -0.00 min

Lab File: VN052475.D

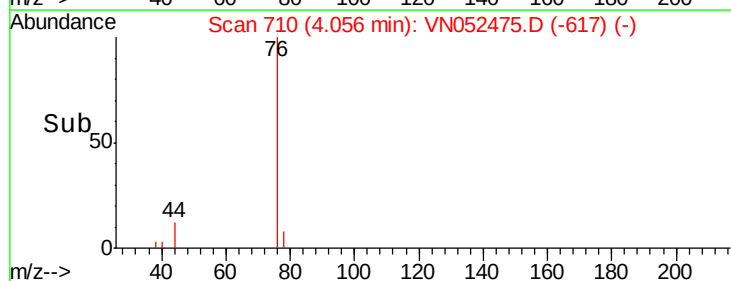
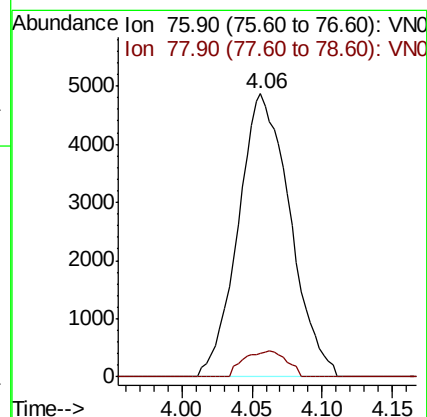
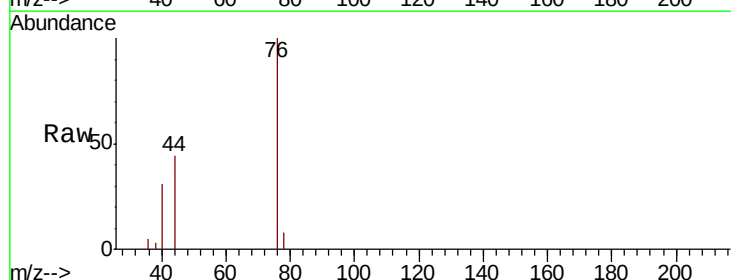
Acq: 27 Nov 2018 13:40

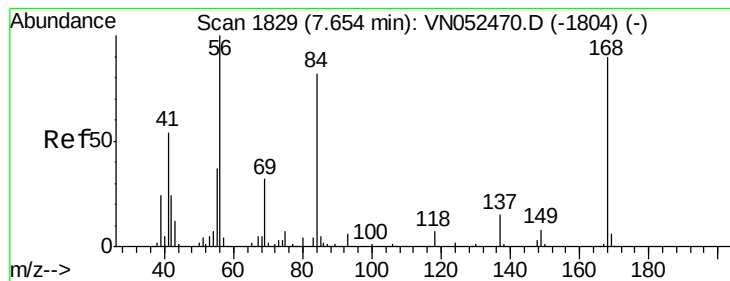
Tgt Ion: 76 Resp: 12482

Ion Ratio Lower Upper

76 100

78 8.2 7.4 11.0





#31

Cyclohexane

Concen: 0.583 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. 0.01 min

Lab File: VN052475.D

Acq: 27 Nov 2018 13:40

Instrument :

MSVOA\_N

ClientSampleId :

VN1127MBL01

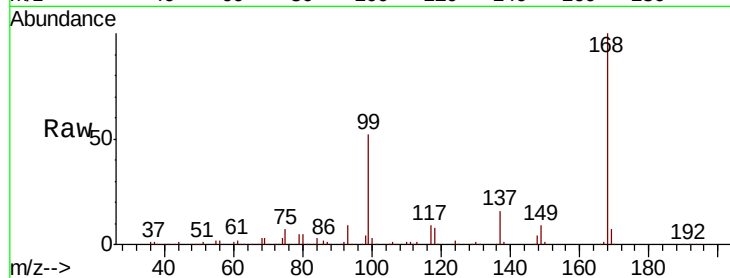
Tot Ion: 56 Resp: 22498

Ion Ratio Lower Upper

56 100

69 186.2 25.8 38.6#

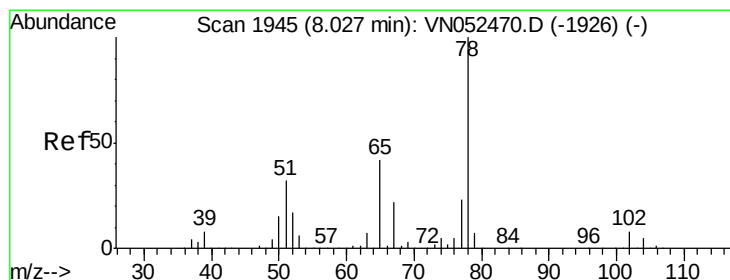
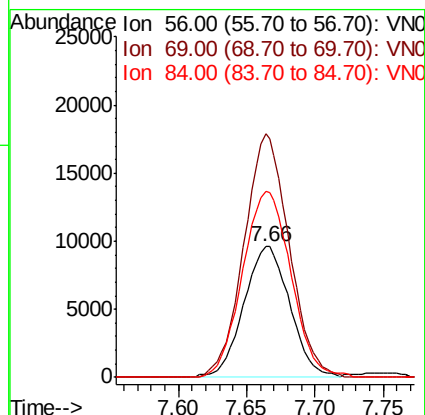
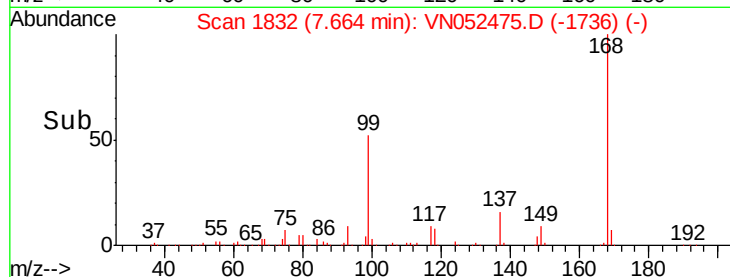
84 141.8 65.3 97.9#



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: Below ug/l

RT: 8.03 min Scan# 1945

Delta R.T. -0.00 min

Lab File: VN052475.D

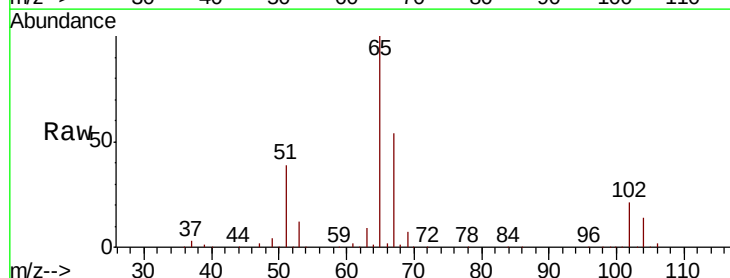
Acq: 27 Nov 2018 13:40

Tgt Ion: 65 Resp: 672258

Ion Ratio Lower Upper

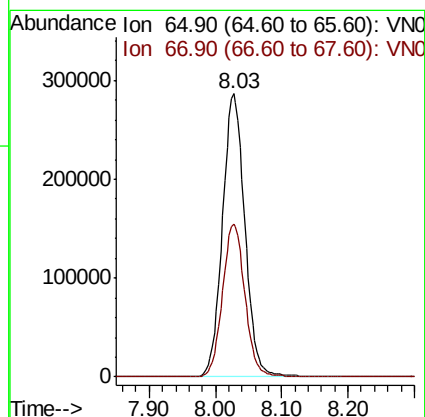
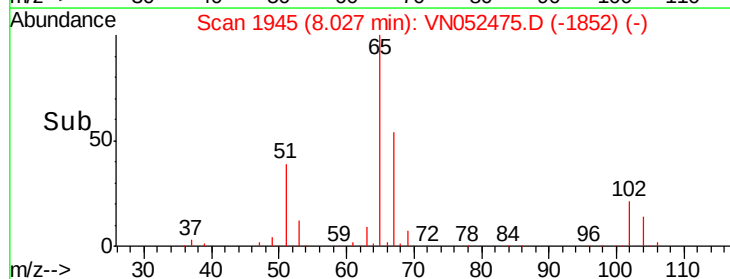
65 100

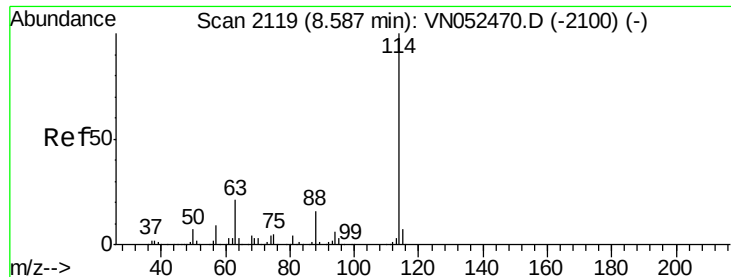
67 54.2 0.0 109.8



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

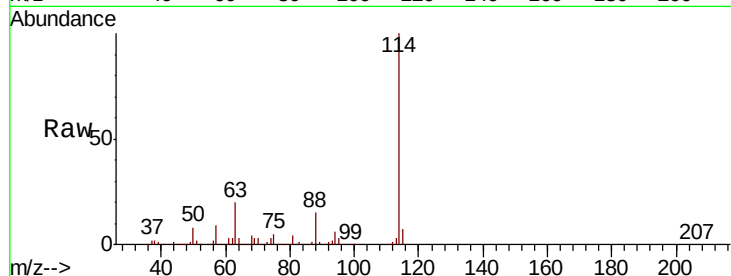




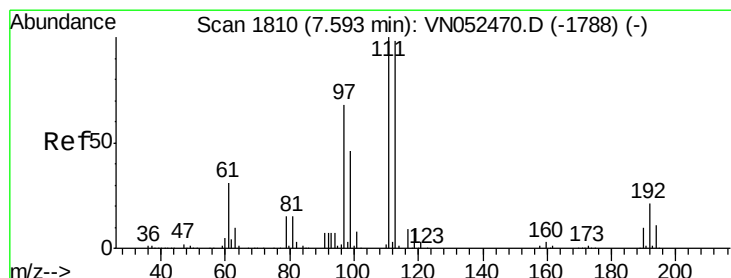
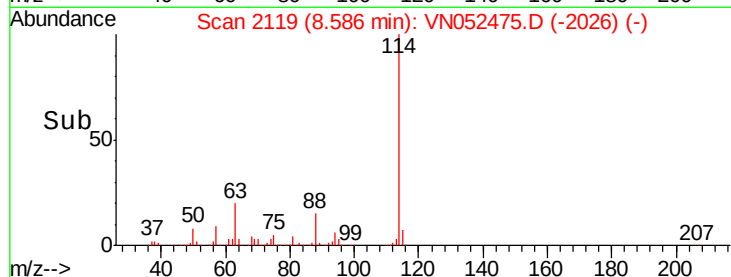
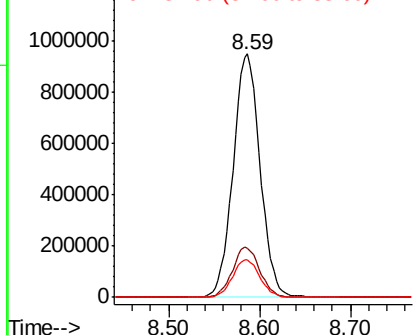
#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.59 min Scan# 2119  
 Delta R.T. -0.00 min  
 Lab File: VN052475.D  
 Acq: 27 Nov 2018 13:40

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN1127MBL01

Tot Ion:114 Resp: 1950928  
 Ion Ratio Lower Upper  
 114 100  
 63 20.4 0.0 41.8  
 88 15.3 0.0 31.6

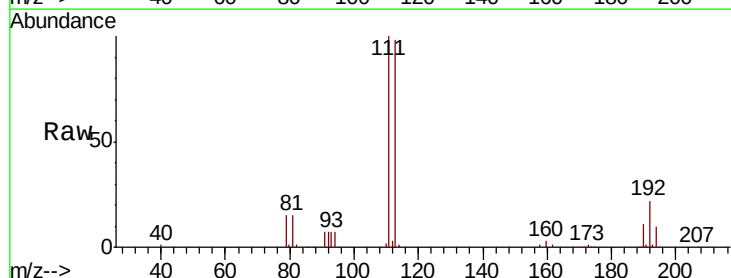


Abundance Ion 113.90 (113.60 to 114.60): V  
 Ion 63.00 (62.70 to 63.70): VN  
 Ion 87.90 (87.60 to 88.60): VN

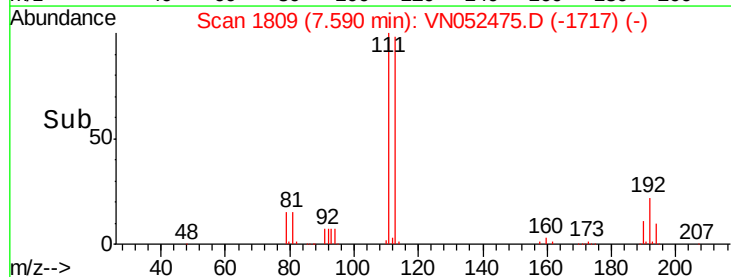
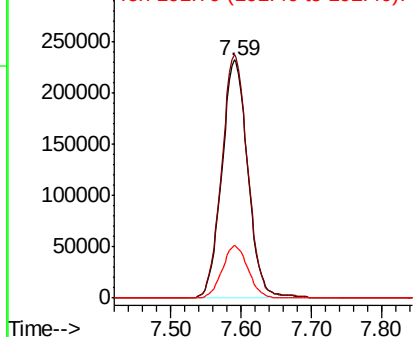


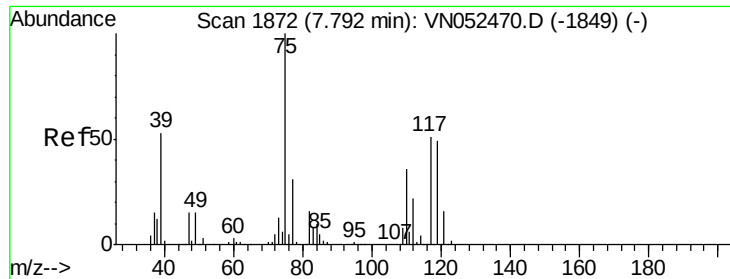
#35  
 Dibromofluoromethane  
 Concen: 50.000 ug/l  
 RT: 7.59 min Scan# 1809  
 Delta R.T. -0.00 min  
 Lab File: VN052475.D  
 Acq: 27 Nov 2018 13:40

Tgt Ion:113 Resp: 598545  
 Ion Ratio Lower Upper  
 113 100  
 111 102.9 82.0 123.0  
 192 22.0 17.0 25.6



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





#36

1,1-Dichloropropene

Concen: 4.729 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.13 min

Lab File: VN052475.D

Acq: 27 Nov 2018 13:40

Instrument :

MSVOA\_N

ClientSampleId :

VN1127MBL01

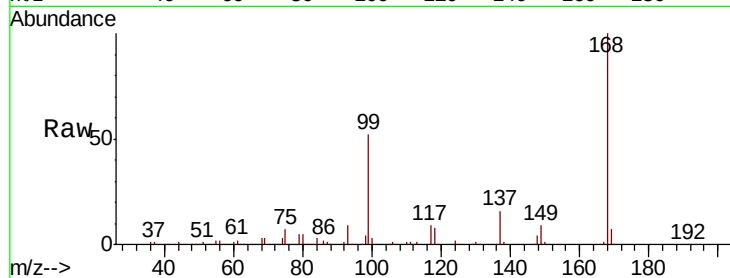
Tot Ion: 75 Resp: 87124

Ion Ratio Lower Upper

75 100

110 8.8 17.5 52.6#

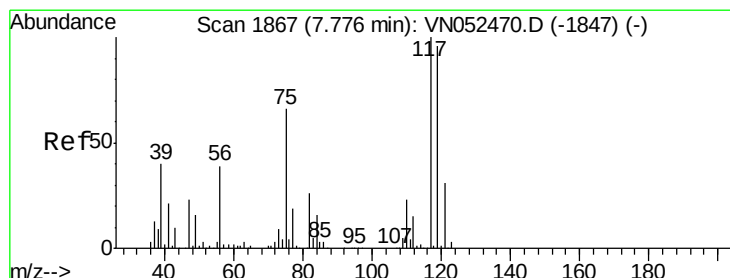
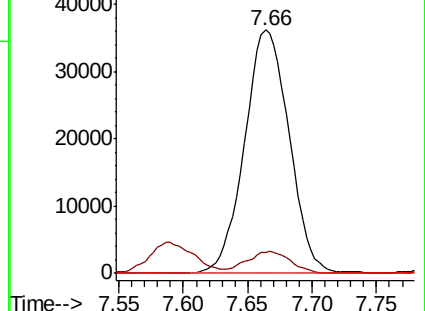
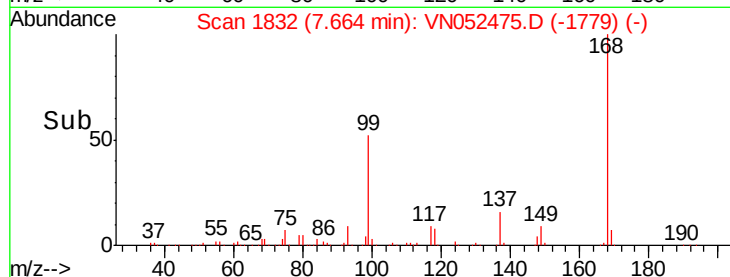
77 0.0 24.5 36.7#



Abundance Ion 74.90 (74.60 to 75.60): VN052475.D (-1779) (-)

Ion 109.90 (109.60 to 110.60): VN052475.D (-1779) (-)

Ion 76.90 (76.60 to 77.60): VN052475.D (-1779) (-)



#38

Carbon Tetrachloride

Concen: 6.737 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.11 min

Lab File: VN052475.D

Acq: 27 Nov 2018 13:40

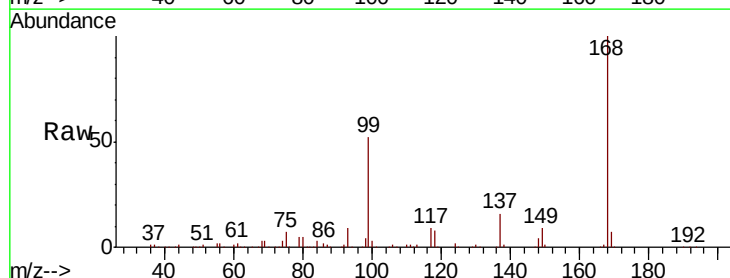
Tgt Ion: 117 Resp: 112353

Ion Ratio Lower Upper

117 100

119 4.8 76.8 115.2#

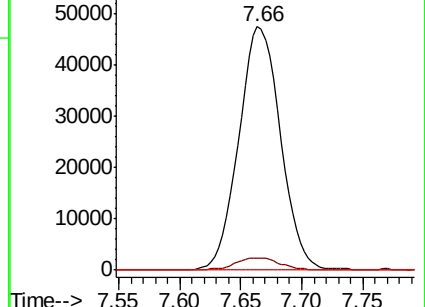
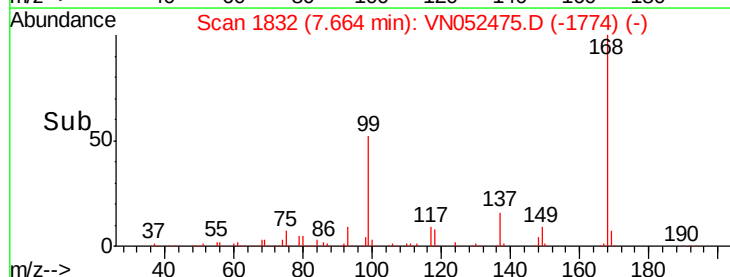
121 0.0 24.9 37.3#

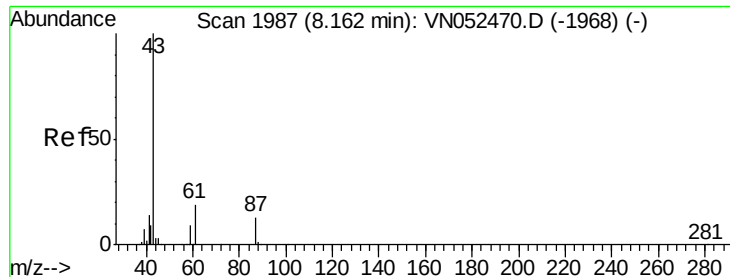


Abundance Ion 116.80 (116.50 to 117.50): VN052475.D (-1774) (-)

Ion 118.80 (118.50 to 119.50): VN052475.D (-1774) (-)

Ion 120.80 (120.50 to 121.50): VN052475.D (-1774) (-)





#43

Isopropyl Acetate

Concen: 0.757 ug/l

RT: 8.27 min Scan# 2020

Delta R.T. 0.11 min

Lab File: VN052475.D

Acq: 27 Nov 2018 13:40

Instrument :

MSVOA\_N

ClientSampleId :

VN1127MBL01

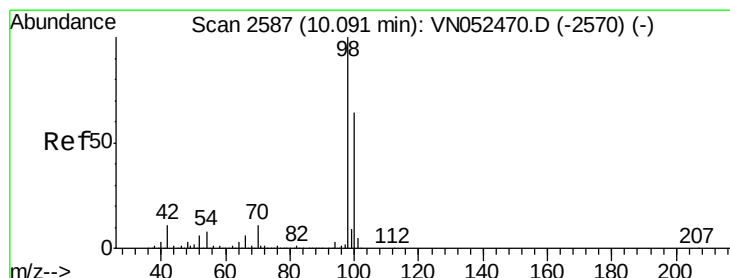
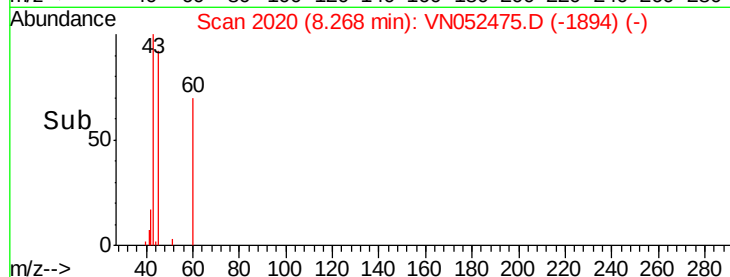
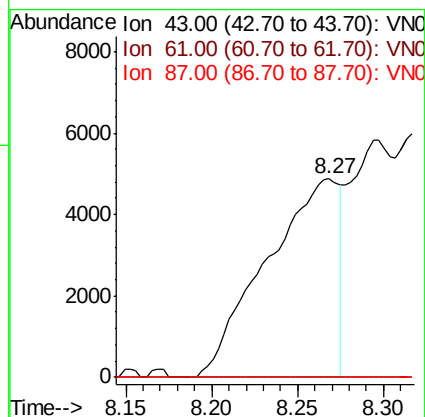
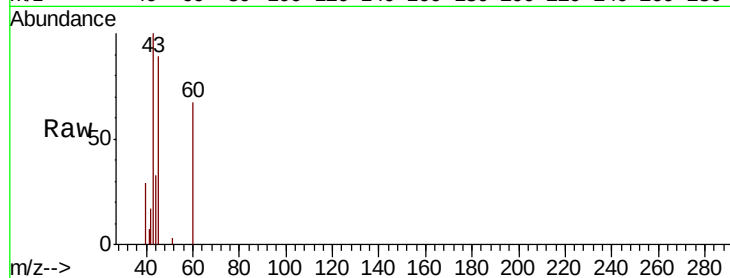
Tot Ion: 43 Resp: 14395

Ion Ratio Lower Upper

43 100

61 0.0 24.1 36.1#

87 0.0 10.6 15.8#



#50

Toluene-d8

Concen: N.D. ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN052475.D

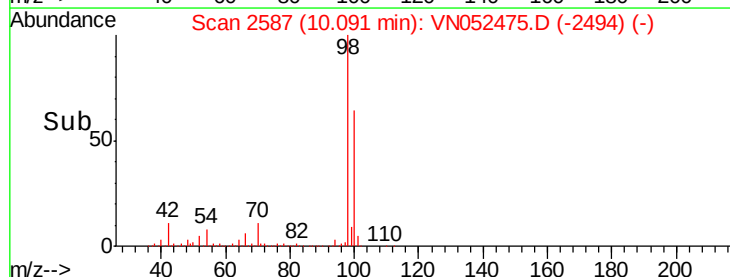
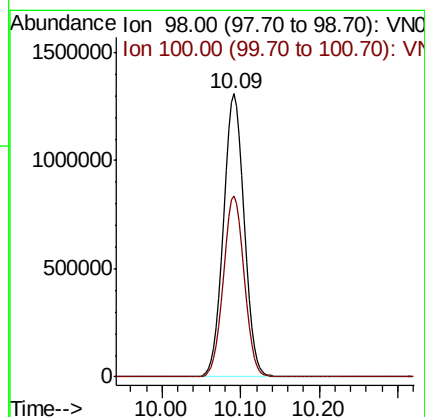
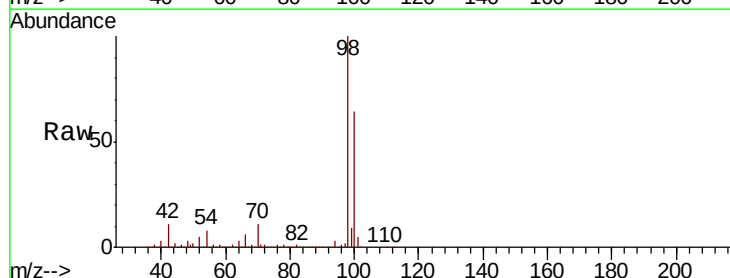
Acq: 27 Nov 2018 13:40

Tgt Ion: 98 Resp: 2375429

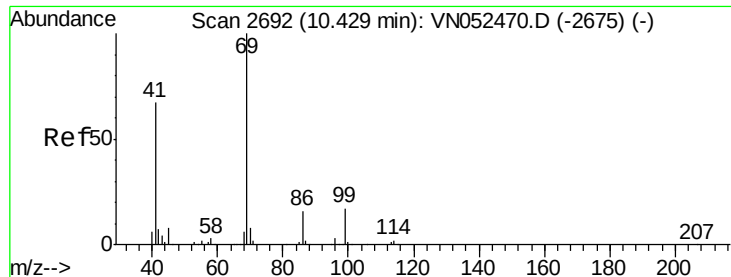
Ion Ratio Lower Upper

98 100

100 64.5 51.3 76.9







#56

Ethyl methacrylate

Concen: 2.695 ug/l

RT: 10.44 min Scan# 2694

Delta R.T. 0.01 min

Lab File: VN052475.D

Acq: 27 Nov 2018 13:40

Instrument :

MSVOA\_N

ClientSampled :

VN1127MBL01

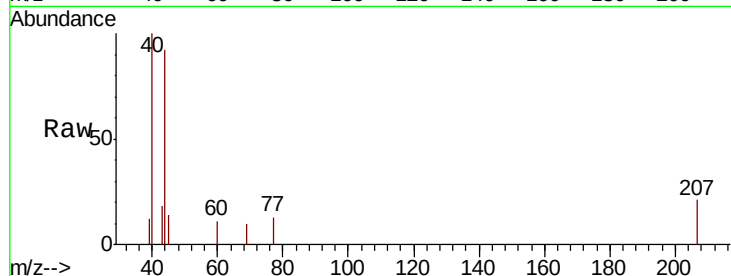
Tot Ion: 69 Resp: 29

Ion Ratio Lower Upper

69 100

41 206.9 52.6 79.0#

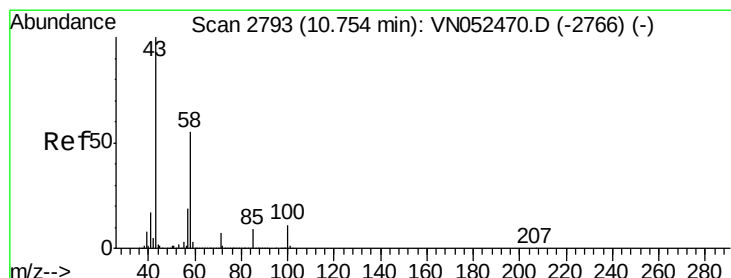
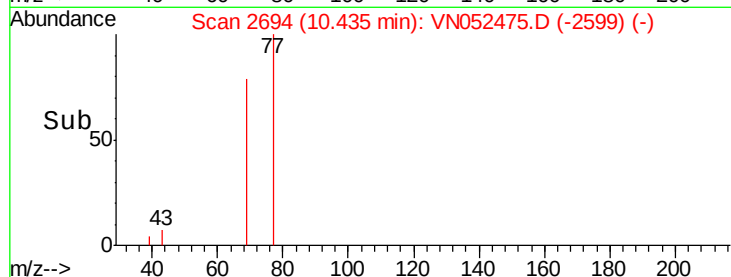
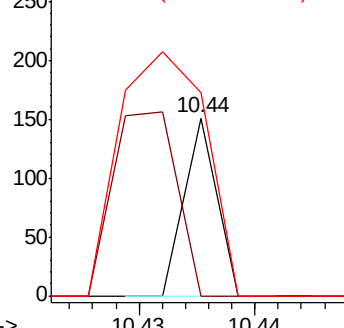
39 369.0 25.9 38.9#



Abundance Ion 69.00 (68.70 to 69.70): VN0

Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0



#59

2-Hexanone

Concen: 0.301 ug/l

RT: 10.76 min Scan# 2795

Delta R.T. 0.01 min

Lab File: VN052475.D

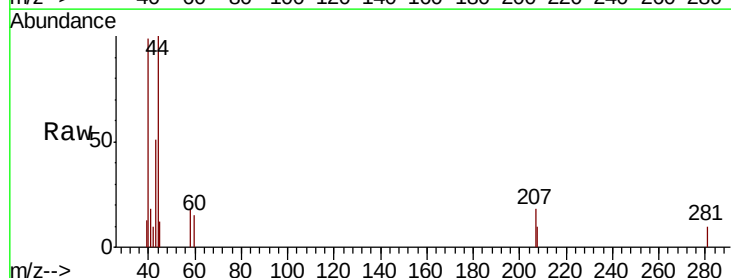
Acq: 27 Nov 2018 13:40

Tgt Ion: 43 Resp: 2159

Ion Ratio Lower Upper

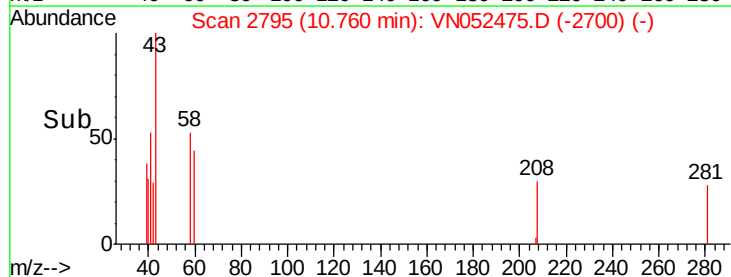
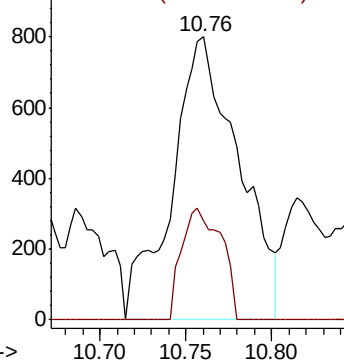
43 100

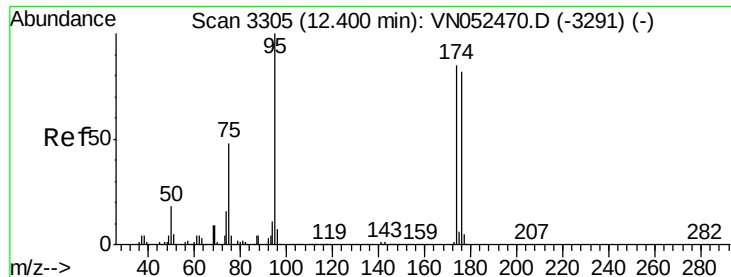
58 23.3 27.4 82.0#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

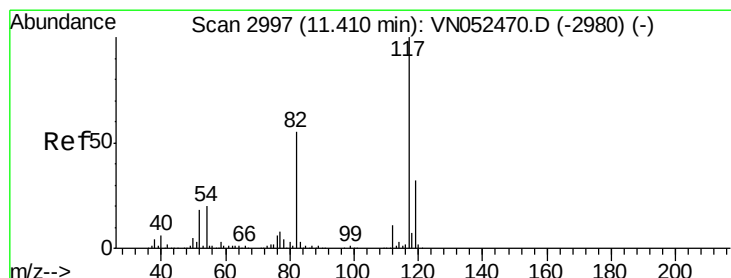
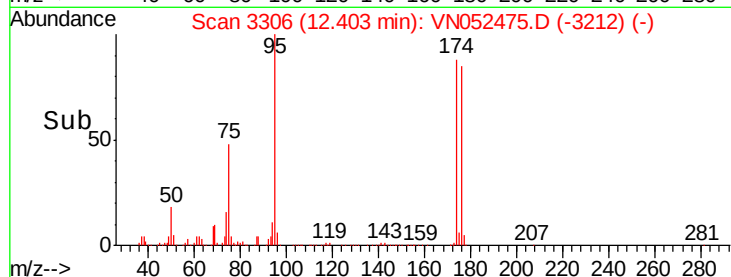
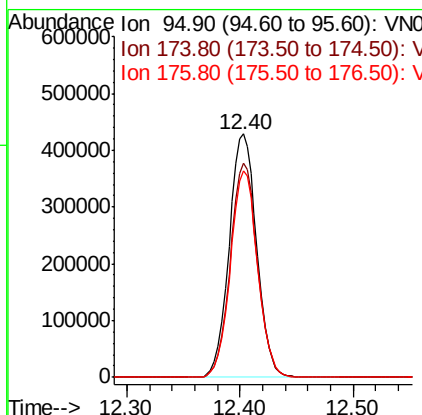
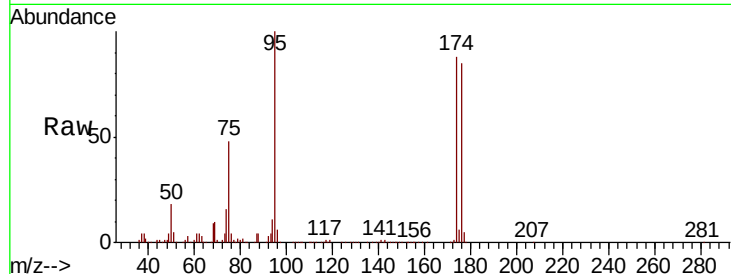




#62  
4-Bromofluorobenzene  
Concen: Below ug/l  
RT: 12.40 min Scan# 3306  
Delta R.T. 0.00 min  
Lab File: VN052475.D  
Acq: 27 Nov 2018 13:40

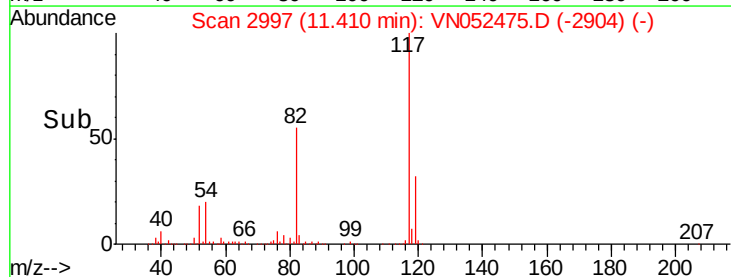
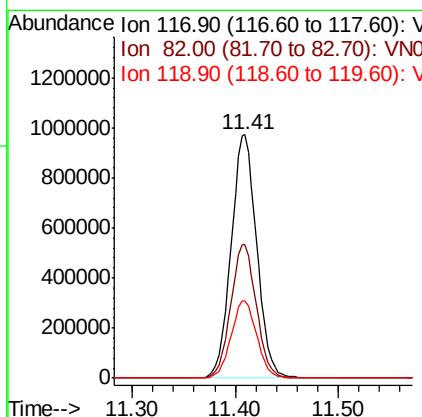
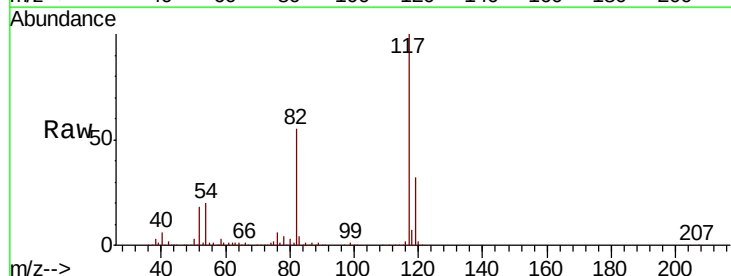
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN1127MBL01

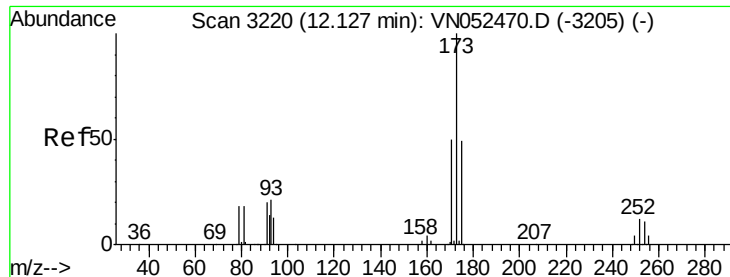
Tot Ion: 95 Resp: 723281  
Ion Ratio Lower Upper  
95 100  
174 86.6 0.0 173.0  
176 83.8 0.0 166.2



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.41 min Scan# 2997  
Delta R.T. -0.00 min  
Lab File: VN052475.D  
Acq: 27 Nov 2018 13:40

Tgt Ion: 117 Resp: 1678220  
Ion Ratio Lower Upper  
117 100  
82 54.7 43.6 65.4  
119 31.8 25.4 38.2





#71

Bromoform

Concen: 0.569 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.28 min

Lab File: VN052475.D

Acq: 27 Nov 2018 13:40

Instrument :

MSVOA\_N

ClientSampleId :

VN1127MBL01

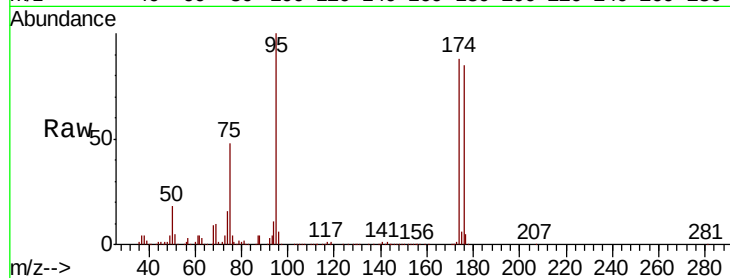
Tot Ion:173 Resp: 4536

Ion Ratio Lower Upper

173 100

175 818.5 24.4 73.2#

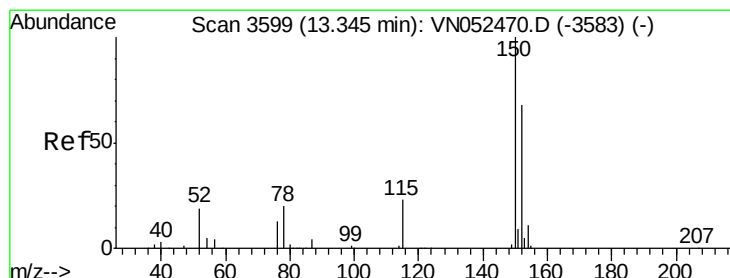
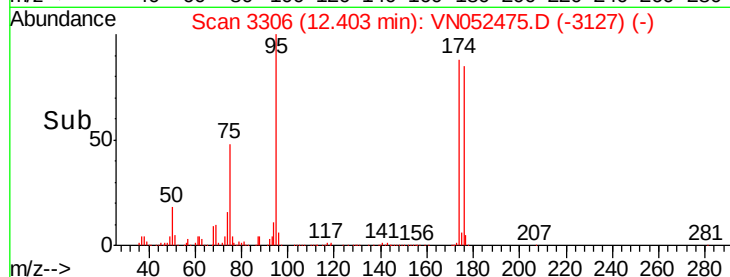
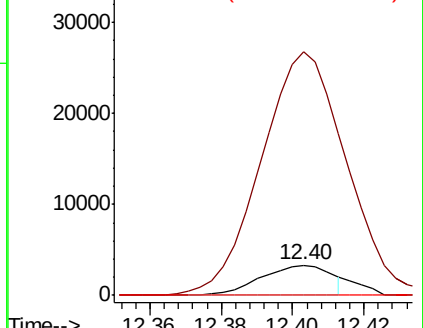
254 0.0 0.1 0.1#



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: 13.35 min Scan# 3599

Delta R.T. -0.00 min

Lab File: VN052475.D

Acq: 27 Nov 2018 13:40

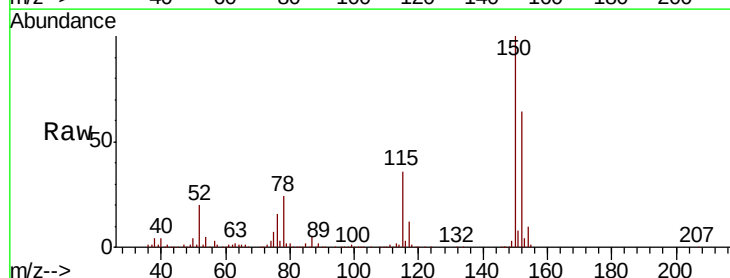
Tgt Ion:152 Resp: 595130

Ion Ratio Lower Upper

152 100

115 56.7 28.4 85.2

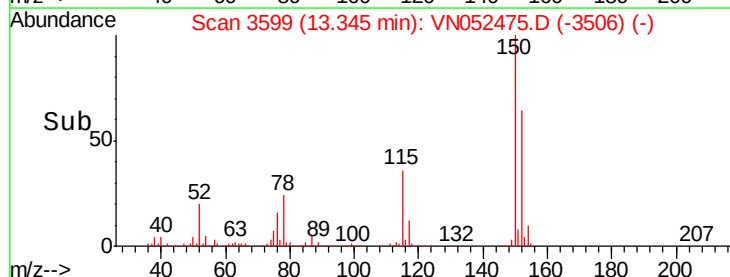
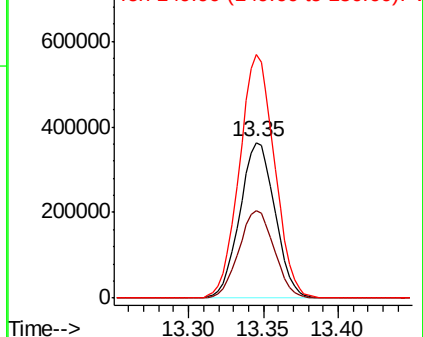
150 156.5 0.0 346.0

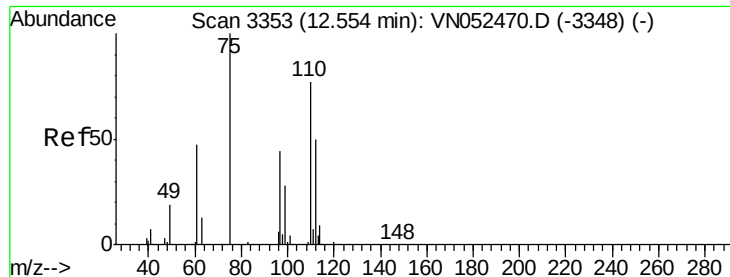


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 37.811 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN052475.D

Acq: 27 Nov 2018 13:40

Instrument :

MSVOA\_N

ClientSampleId :

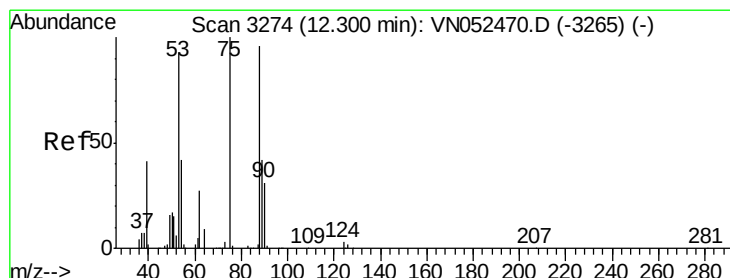
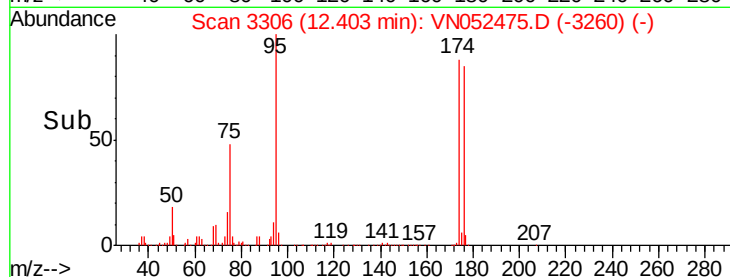
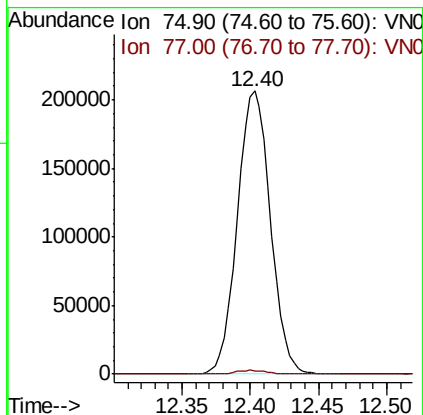
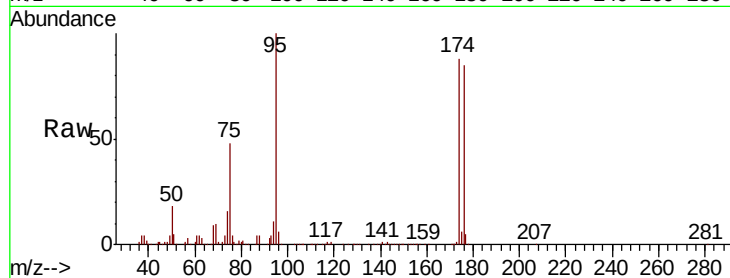
VN1127MBL01

Tot Ion: 75 Resp: 346998

Ion Ratio Lower Upper

75 100

77 1.3 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 126.270 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN052475.D

Acq: 27 Nov 2018 13:40

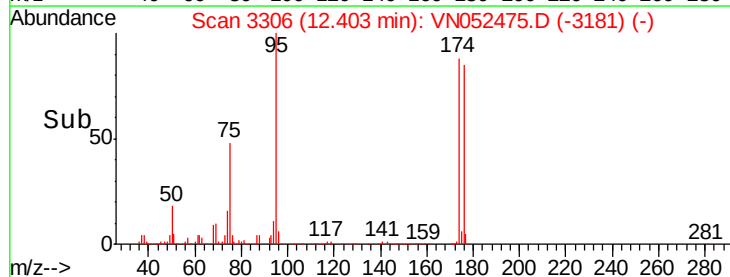
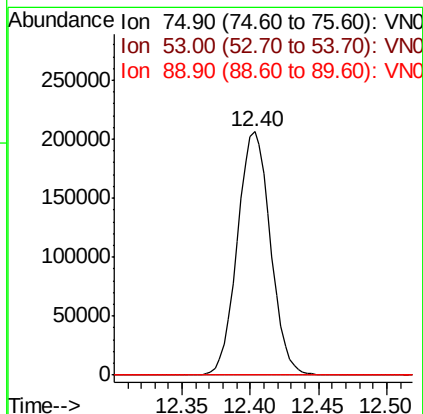
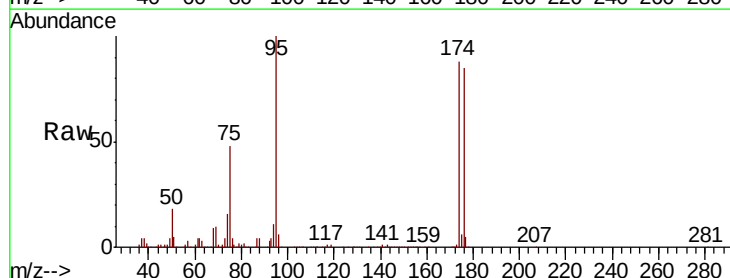
Tgt Ion: 75 Resp: 346998

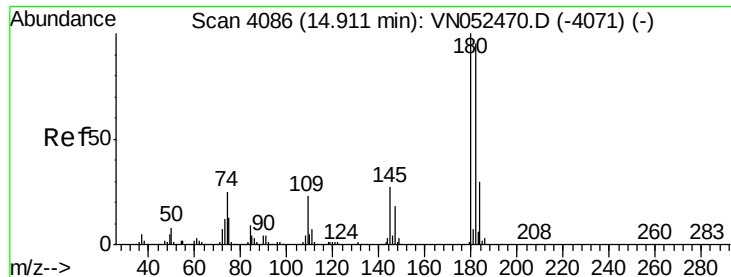
Ion Ratio Lower Upper

75 100

53 0.0 77.4 116.0#

89 0.0 35.4 53.2#

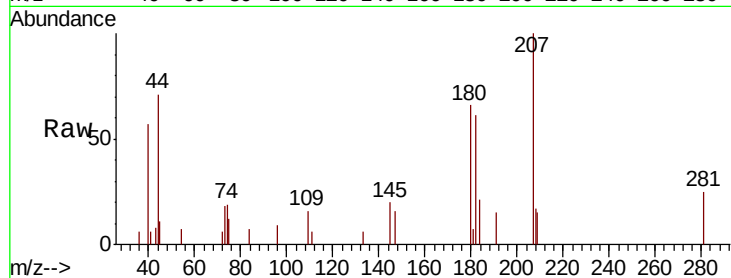




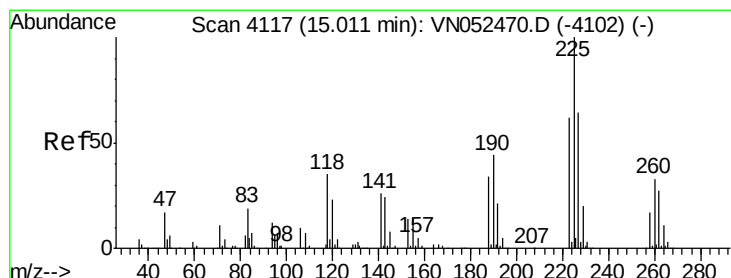
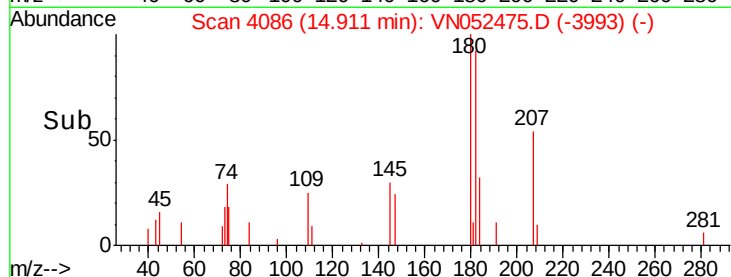
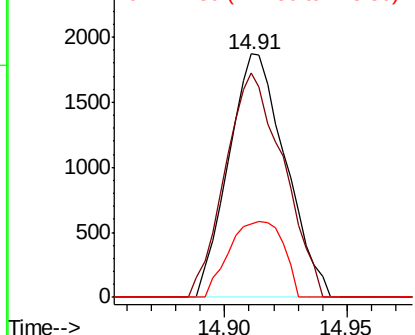
#93  
 1,2,4-Trichlorobenzene  
 Concen: 3.100 ug/l  
 RT: 14.91 min Scan# 4086  
 Delta R.T. -0.00 min  
 Lab File: VN052475.D  
 Acq: 27 Nov 2018 13:40

Instrument :  
 MSVOA\_N  
 ClientSampleID :  
 VN1127MBL01

Tot Ion:180 Resp: 3028  
 Ion Ratio Lower Upper  
 180 100  
 182 94.2 47.8 143.4  
 145 29.7 14.1 42.3

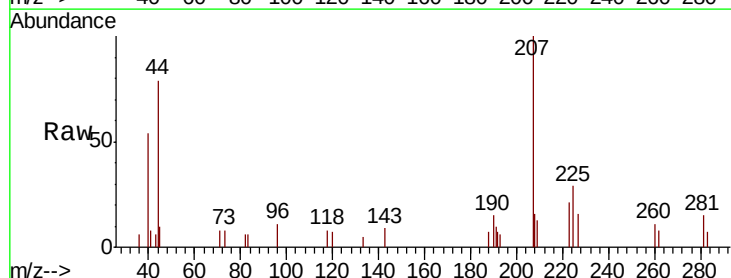


Abundance Ion 179.80 (179.50 to 180.50): V  
 Ion 181.80 (181.50 to 182.50): V  
 Ion 144.80 (144.50 to 145.50): V

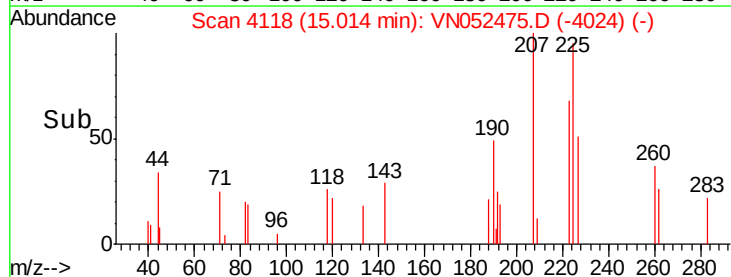
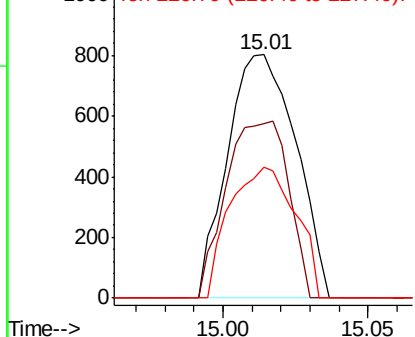


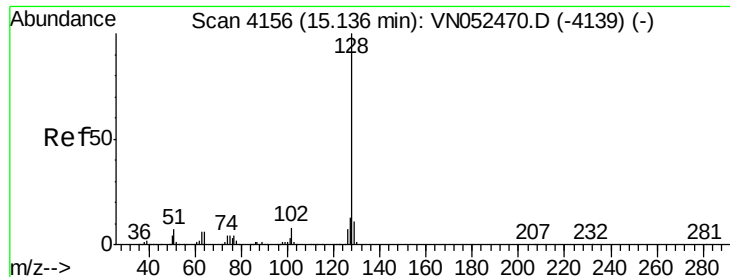
#94  
 Hexachlorobutadiene  
 Concen: 0.212 ug/l  
 RT: 15.01 min Scan# 4118  
 Delta R.T. 0.00 min  
 Lab File: VN052475.D  
 Acq: 27 Nov 2018 13:40

Tgt Ion:225 Resp: 1316  
 Ion Ratio Lower Upper  
 225 100  
 223 66.3 31.4 94.2  
 227 52.0 32.5 97.4



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: 3.703 ug/l

RT: 15.14 min Scan# 4157

Delta R.T. 0.00 min

Lab File: VN052475.D

Acq: 27 Nov 2018 13:40

Instrument :

MSVOA\_N

ClientSampleId :

VN1127MBL01

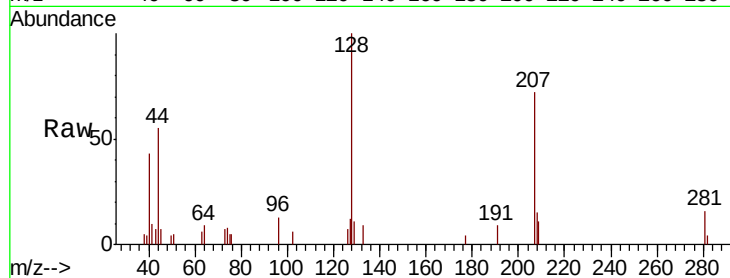
Tot Ion:128 Resp: 6602

Ion Ratio Lower Upper

128 100

127 11.3 10.2 15.2

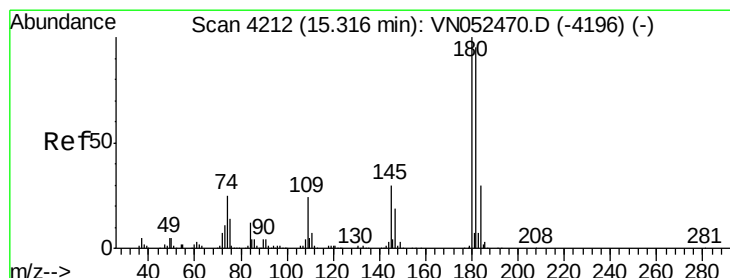
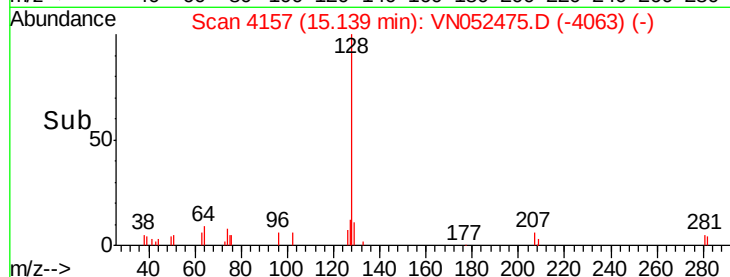
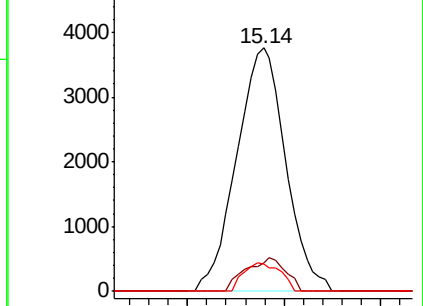
129 8.7 8.7 13.1#



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: 3.046 ug/l

RT: 15.32 min Scan# 4213

Delta R.T. 0.00 min

Lab File: VN052475.D

Acq: 27 Nov 2018 13:40

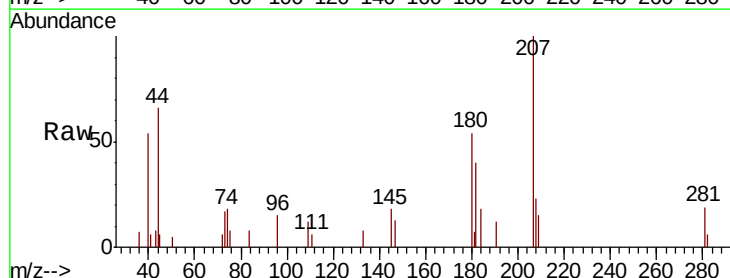
Tgt Ion:180 Resp: 3279

Ion Ratio Lower Upper

180 100

182 83.4 47.8 143.3

145 29.8 15.2 45.5



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

