

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN050919\  
 Data File : VN055502.D  
 Acq On : 9 May 2019 17:19  
 Operator : JC/SP  
 Sample : K2751-03  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 COMP-1

Quant Time: May 10 04:14:54 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N050819W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu May 09 04:17:44 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.67  | 168  | 926863   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.59  | 114  | 1562884  | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.41 | 117  | 1301040  | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.34 | 152  | 446117   | 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   | 622293   | 44.59 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 89.18% |          |
| 35) Dibromofluoromethane    | 7.59  | 113  | 466162   | 46.24 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 92.48% |          |
| 50) Toluene-d8              | 10.09 | 98   | 1892656  | 48.17 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 96.34% |          |
| 62) 4-Bromofluorobenzene    | 12.40 | 95   | 580249   | 43.80 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 87.60% |          |

| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 11) Tert butyl alcohol         | 4.81  | 59   | 271662   | 131.840   | ug/l   | 100    |
| 13) Acrolein                   | 3.61  | 56   | 3361     | 2.447     | ug/l # | 14     |
| 16) Acetone                    | 3.82  | 43   | 1886154  | 291.893   | ug/l   | 96     |
| 17) Carbon Disulfide           | 4.05  | 76   | 26172    | 0.947     | ug/l # | 92     |
| 18) Methyl Acetate             | 4.33  | 43   | 200468   | 13.987    | ug/l   | 99     |
| 20) Methylene Chloride         | 4.55  | 84   | 27614    | 2.090     | ug/l   | 98     |
| 22) Diisopropyl ether          | 6.07  | 45   | 583233   | 13.831    | ug/l # | 1      |
| 23) Vinyl Acetate              | 6.07  | 43   | 1303413  | 39.968    | ug/l # | 75     |
| 25) 2-Butanone                 | 6.85  | 43   | 375373   | 42.053    | ug/l   | 99     |
| 29) Tetrahydrofuran            | 7.24  | 42   | 1658     | 0.281     | ug/l # | 49     |
| 31) Cyclohexane                | 7.66  | 56   | 20277    | 0.900     | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 7.67  | 75   | 73938    | 4.802     | ug/l # | 51     |
| 37) Ethyl Acetate              | 6.85  | 43   | 375373   | 22.349    | ug/l # | 70     |
| 38) Carbon Tetrachloride       | 7.66  | 117  | 87713    | 6.765     | ug/l # | 16     |
| 40) Benzene                    | 8.04  | 78   | 111519   | 2.334     | ug/l   | 95     |
| 43) Isopropyl Acetate          | 8.28  | 43   | 13742    | 0.539     | ug/l # | 63     |
| 48) Methyl methacrylate        | 9.20  | 41   | 14778    | 1.202     | ug/l # | 71     |
| 49) 1,4-Dioxane                | 9.20  | 88   | 1107     | 4.620     | ug/l # | 20     |
| 51) 4-Methyl-2-Pentanone       | 9.99  | 43   | 48083    | 2.865     | ug/l   | 99     |
| 52) Toluene                    | 10.16 | 92   | 85894    | 3.144     | ug/l   | 100    |
| 53) t-1,3-Dichloropropene      | 10.35 | 75   | 4652     | 0.319     | ug/l   | 92     |
| 59) 2-Hexanone                 | 10.76 | 43   | 16929    | 1.438     | ug/l   | 93     |
| 67) Ethyl Benzene              | 11.51 | 91   | 11795    | 0.235     | ug/l   | 98     |
| 68) m/p-Xylenes                | 11.62 | 106  | 17211    | 0.954     | ug/l   | 97     |
| 69) o-Xylene                   | 11.95 | 106  | 8190     | 0.462     | ug/l   | 94     |
| 70) Styrene                    | 11.96 | 104  | 6791     | 0.239     | ug/l # | 81     |
| 71) Bromoform                  | 12.40 | 173  | 4622     | 0.743     | ug/l # | 1      |
| 73) Isopropylbenzene           | 12.25 | 105  | 1841     | Below Cal |        | 94     |
| 74) N-amyl acetate             | 12.03 | 43   | 35533    | 2.098     | ug/l # | 45     |
| 75) 1,1,2,2-Tetrachloroethane  | 12.52 | 83   | 771      | Below Cal | #      | 91     |
| 76) 1,2,3-Trichloropropane     | 12.40 | 75   | 290707   | 23.937    | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.40 | 75   | 290707   | 88.323    | ug/l # | 7      |
| 84) 1,2,4-Trimethylbenzene     | 13.04 | 105  | 15623    | 0.477     | ug/l   | 96     |
| 93) 1,2,4-Trichlorobenzene     | 14.90 | 180  | 1813     | 3.462     | ug/l   | 92     |

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Quant Title : SW846 8260  
QLast Update : Thu May 09 04:17:44 2019  
Response via : Initial Calibration

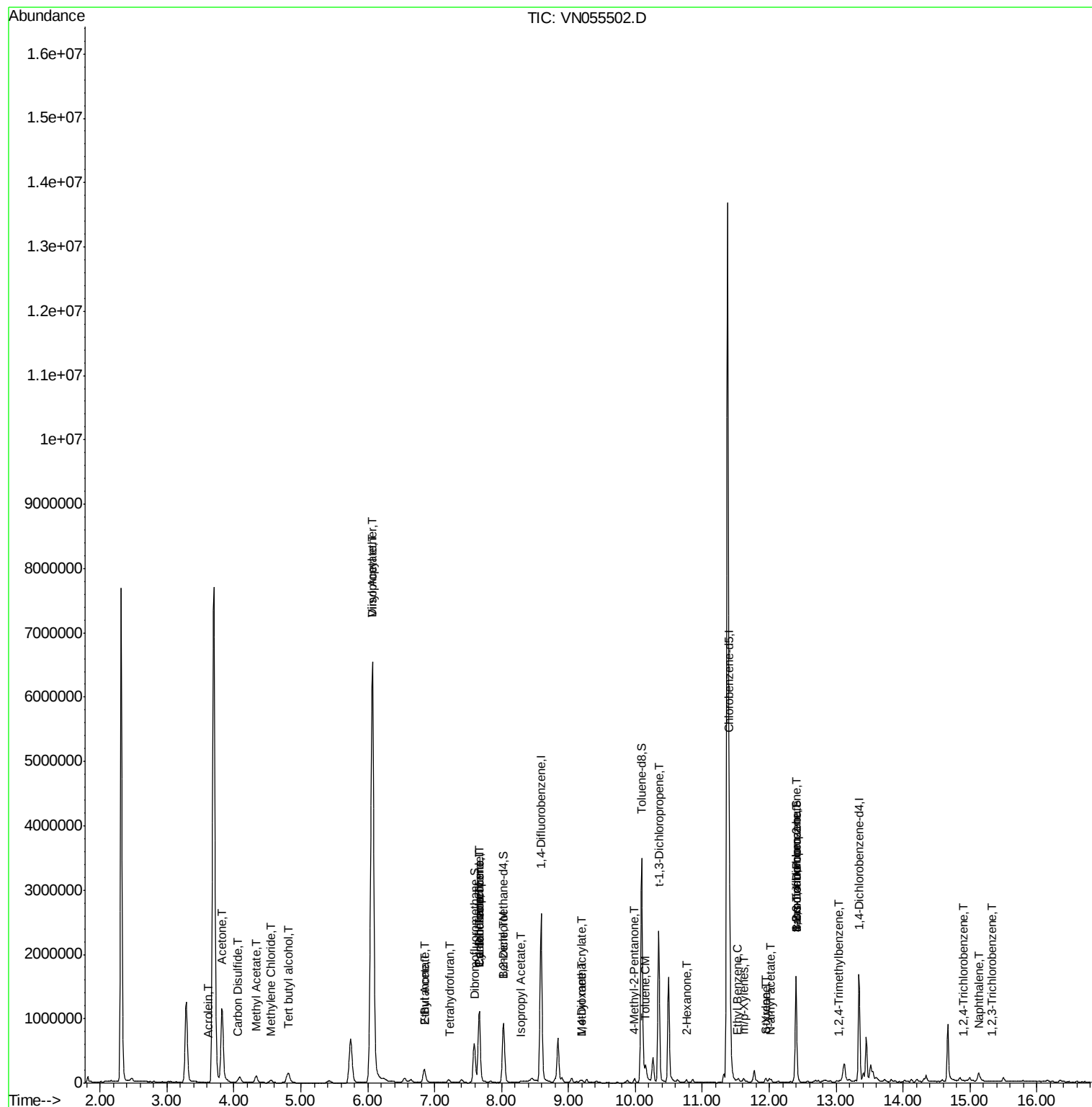
| Internal Standards         | R.T.  | QIon | Response | Conc      | Units | Dev(Min) |
|----------------------------|-------|------|----------|-----------|-------|----------|
| 94) Hexachlorobutadiene    | 15.01 | 225  | 356      | Below Cal | #     | 12       |
| 95) Naphthalene            | 15.13 | 128  | 96397    | 7.815     | ug/l  | 99       |
| 96) 1,2,3-Trichlorobenzene | 15.32 | 180  | 2255     | 2.723     | ug/l  | 96       |

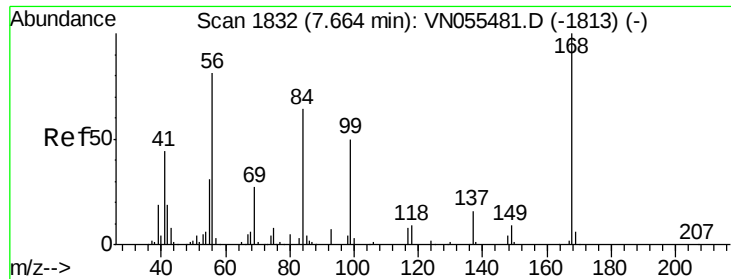
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN055502.D

Acq: 9 May 2019 17:19

Instrument :

MSVOA\_N

ClientSampled :

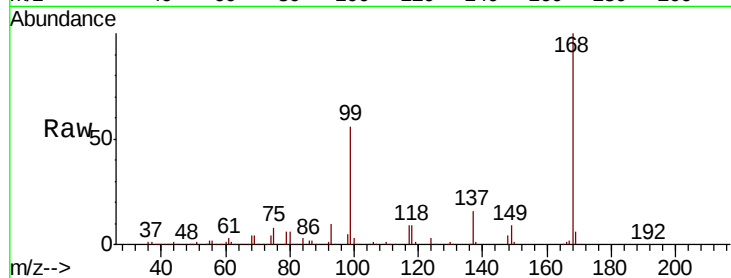
COMP-1

Tot Ion:168 Resp: 926863

Ion Ratio Lower Upper

168 100

99 56.4 47.0 70.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.67

400000

300000

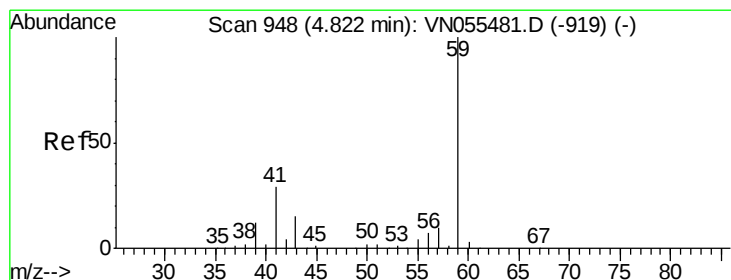
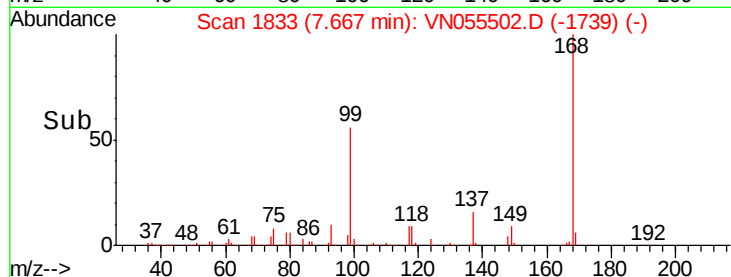
200000

100000

0

7.60 7.70 7.80

Time-->



#11

Tert butyl alcohol

Concen: 131.840 ug/l

RT: 4.81 min Scan# 945

Delta R.T. -0.01 min

Lab File: VN055502.D

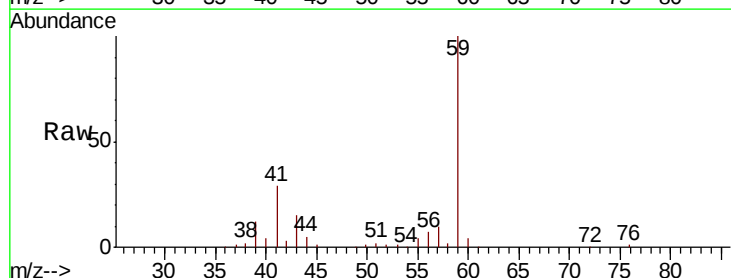
Acq: 9 May 2019 17:19

Tgt Ion: 59 Resp: 271662

Ion Ratio Lower Upper

59 100

57 10.1 8.0 12.0



Abundance Ion 59.00 (58.70 to 59.70): VNO

Ion 57.00 (56.70 to 57.70): VNO

4.81

80000

60000

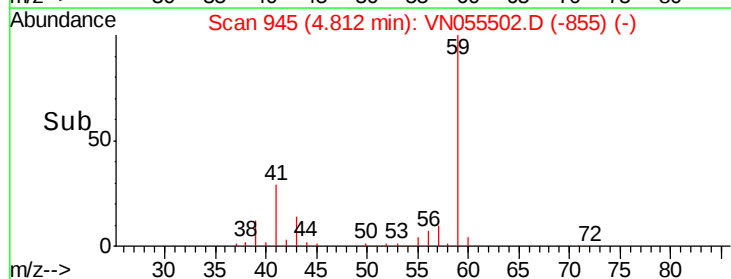
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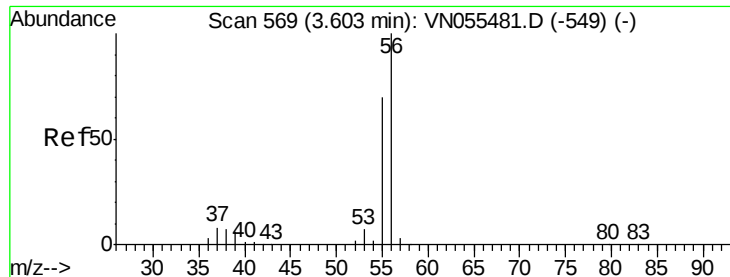
20000

0

4.60 4.70 4.80 4.90 5.00

Time-->

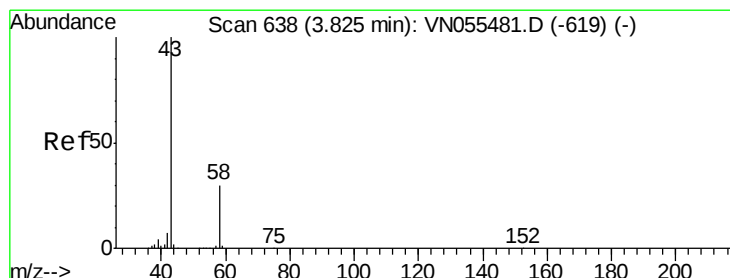
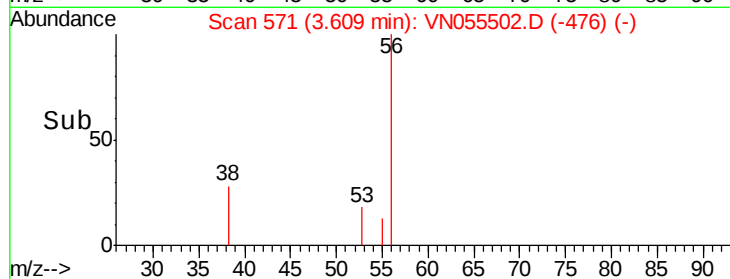
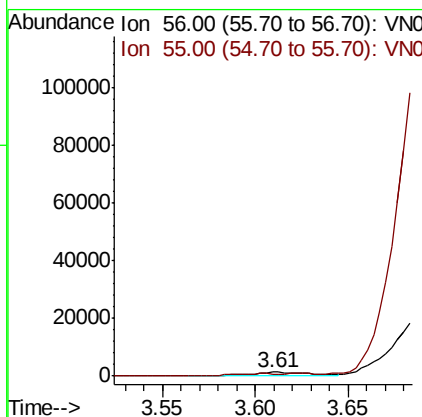
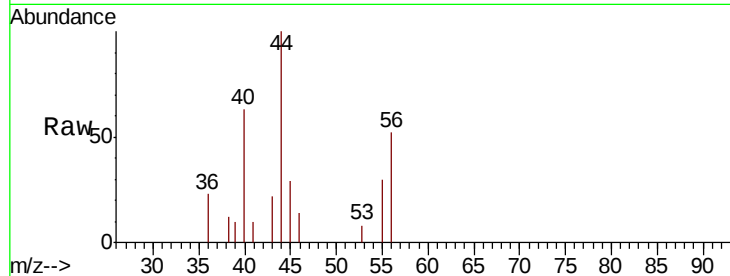




#13  
Acrolein  
Concen: 2.447 ug/l  
RT: 3.61 min Scan# 571  
Delta R.T. 0.01 min  
Lab File: VN055502.D  
Acq: 9 May 2019 17:19

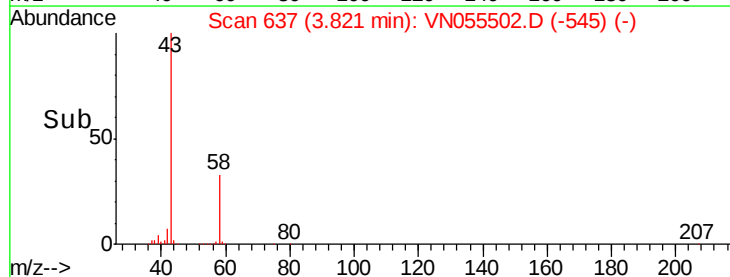
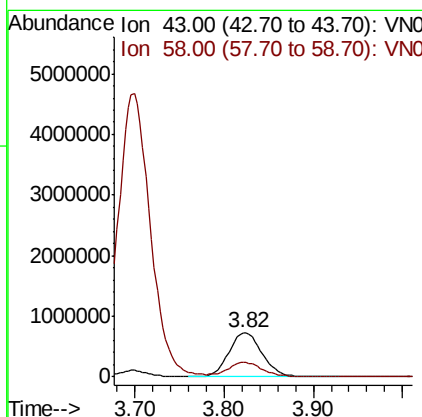
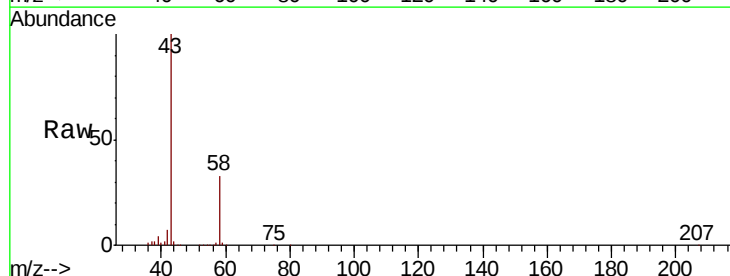
Instrument :  
MSVOA\_N  
ClientSampled :  
COMP-1

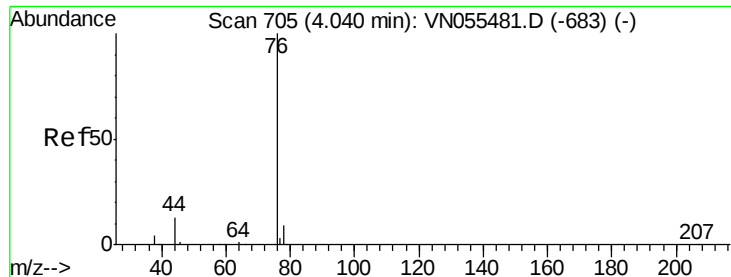
Tot Ion: 56 Resp: 3361  
Ion Ratio Lower Upper  
56 100  
55 0.0 57.7 86.5#



#16  
Acetone  
Concen: 291.893 ug/l  
RT: 3.82 min Scan# 637  
Delta R.T. -0.00 min  
Lab File: VN055502.D  
Acq: 9 May 2019 17:19

Tgt Ion: 43 Resp: 1886154  
Ion Ratio Lower Upper  
43 100  
58 32.2 24.2 36.2





#17

Carbon Disulfide

Concen: 0.947 ug/l

RT: 4.05 min Scan# 707

Delta R.T. 0.01 min

Lab File: VN055502.D

Acq: 9 May 2019 17:19

Instrument :

MSVOA\_N

ClientSampled :

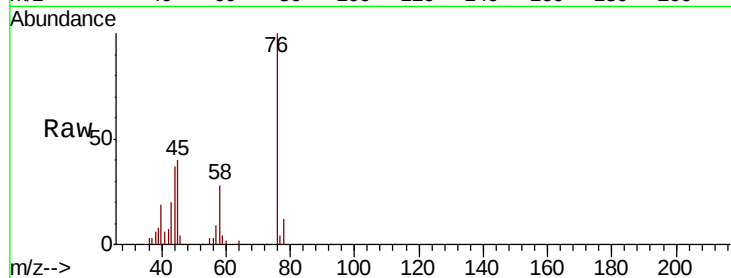
COMP-1

Tot Ion: 76 Resp: 26172

Ion Ratio Lower Upper

76 100

78 12.1 7.4 11.0#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

4.05

10000

8000

6000

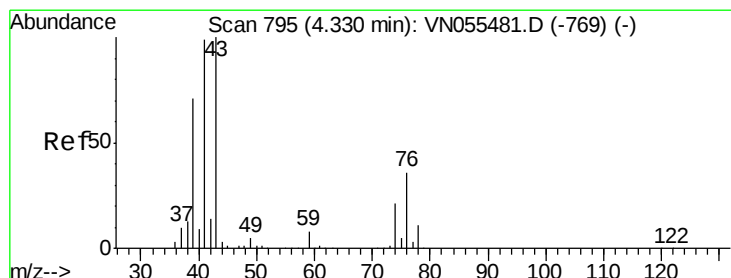
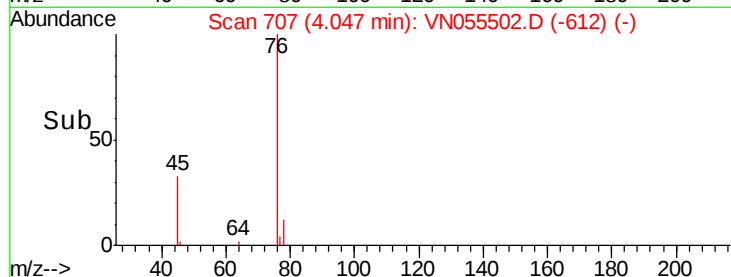
4000

2000

0

Time-->

3.95 4.00 4.05 4.10 4.15



#18

Methyl Acetate

Concen: 13.987 ug/l

RT: 4.33 min Scan# 796

Delta R.T. 0.00 min

Lab File: VN055502.D

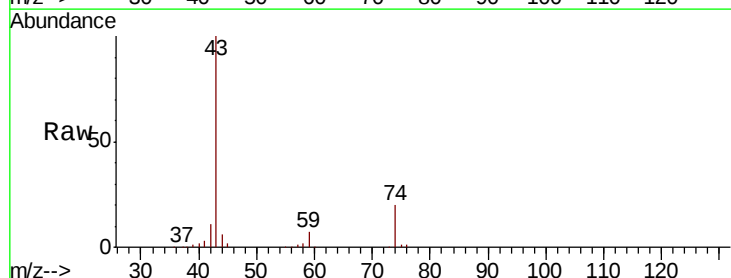
Acq: 9 May 2019 17:19

Tgt Ion: 43 Resp: 200468

Ion Ratio Lower Upper

43 100

74 20.7 16.3 24.5



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

4.33

80000

60000

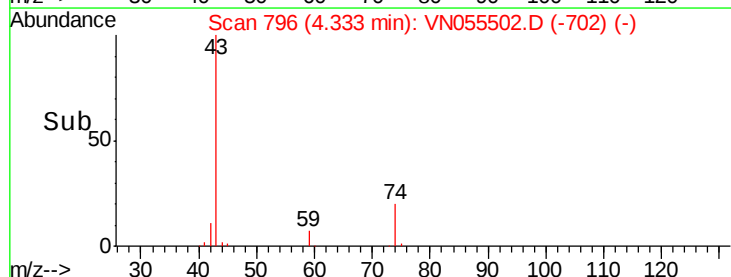
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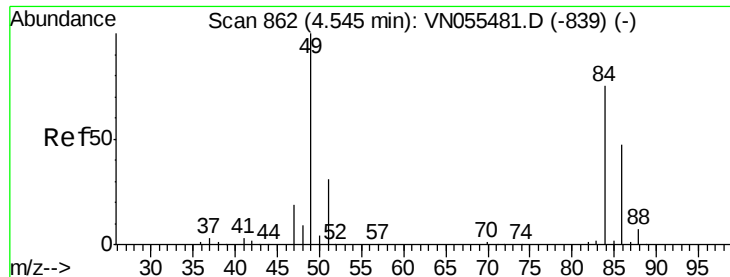
20000

0

Time-->

4.20 4.30 4.40

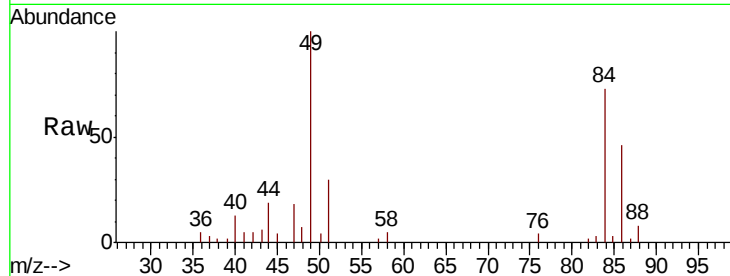




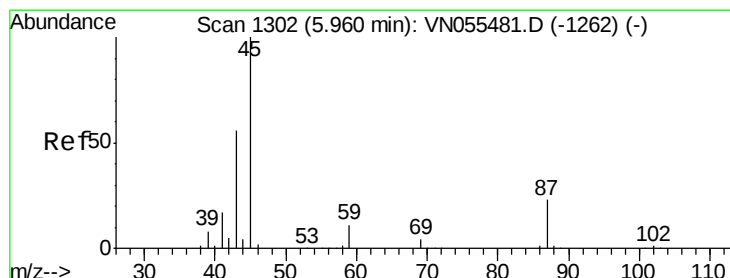
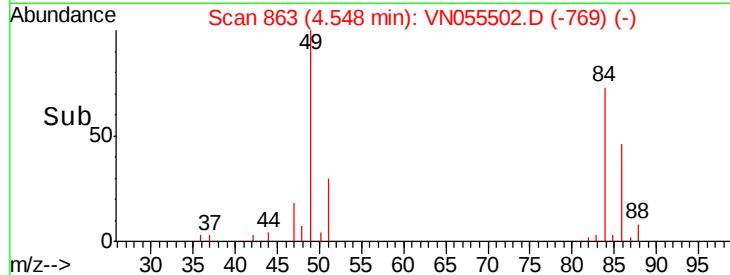
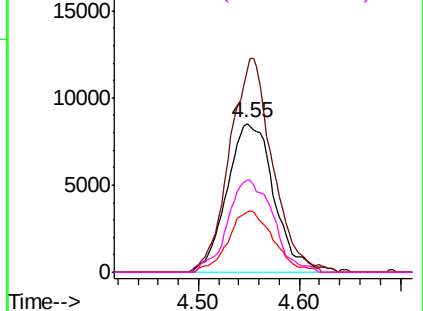
#20  
Methvlene Chloride  
Concen: 2.090 ug/l  
RT: 4.55 min Scan# 863  
Delta R.T. 0.00 min  
Lab File: VN055502.D  
Acq: 9 May 2019 17:19

Instrument :  
MSVOA\_N  
ClientSampleId :  
COMP-1

Tot Ion: 84 Resp: 27614  
Ion Ratio Lower Upper  
84 100  
49 136.5 107.0 160.6  
51 40.3 33.0 49.4  
86 62.3 50.6 76.0

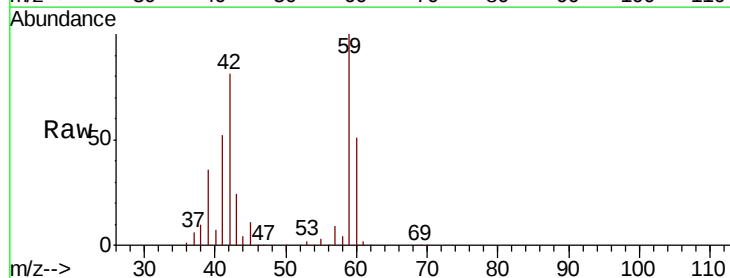


Abundance Ion 83.90 (83.60 to 84.60): VNO  
Ion 48.90 (48.60 to 49.60): VNO  
Ion 50.90 (50.60 to 51.60): VNO  
Ion 85.90 (85.60 to 86.60): VNO

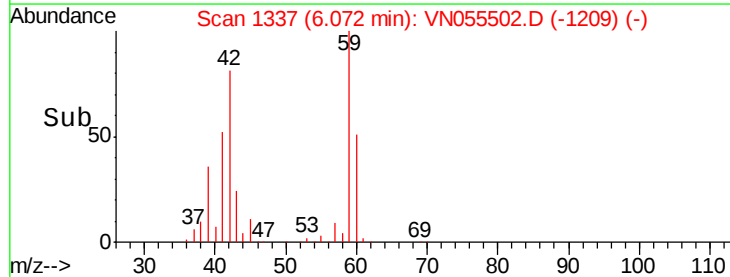
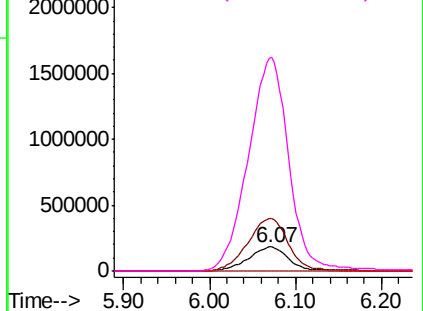


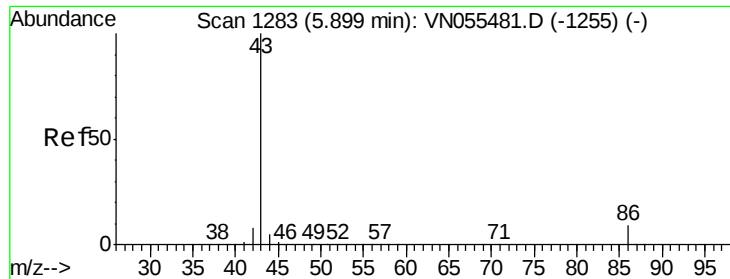
#22  
Diisopropyl ether  
Concen: 13.831 ug/l  
RT: 6.07 min Scan# 1337  
Delta R.T. 0.11 min  
Lab File: VN055502.D  
Acq: 9 May 2019 17:19

Tgt Ion: 45 Resp: 583233  
Ion Ratio Lower Upper  
45 100  
43 216.9 44.6 66.8#  
87 0.0 18.6 28.0#  
59 891.9 8.6 12.8#



Abundance Ion 45.00 (44.70 to 45.70): VNO  
Ion 43.00 (42.70 to 43.70): VNO  
Ion 87.00 (86.70 to 87.70): VNO  
Ion 59.00 (58.70 to 59.70): VNO

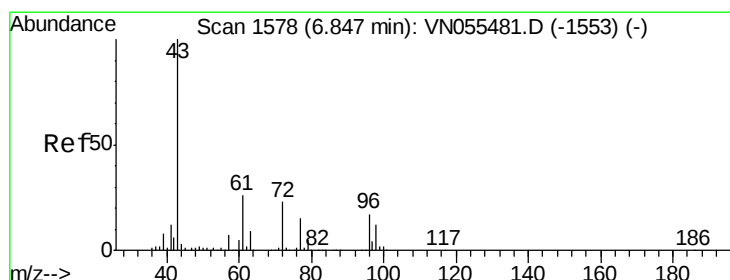
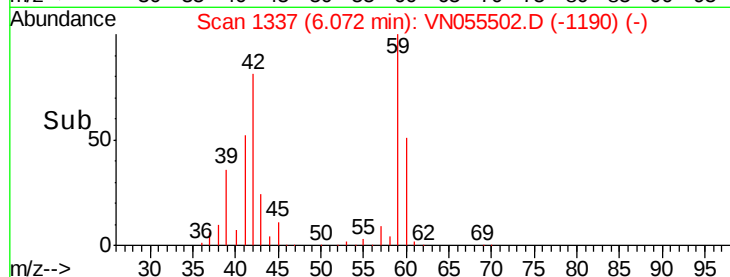
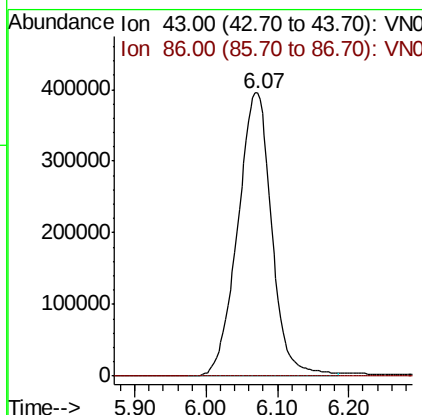
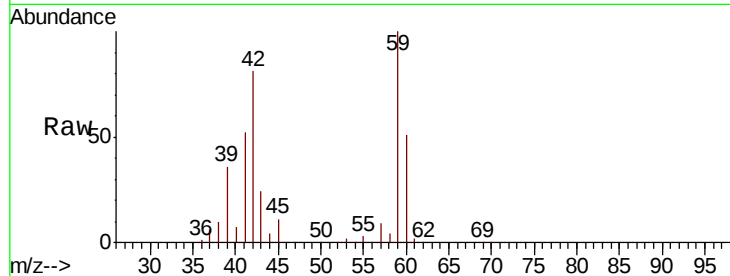




#23  
 Vinyl Acetate  
 Concen: 39.968 ug/l  
 RT: 6.07 min Scan# 1337  
 Delta R.T. 0.17 min  
 Lab File: VN055502.D  
 Acq: 9 May 2019 17:19

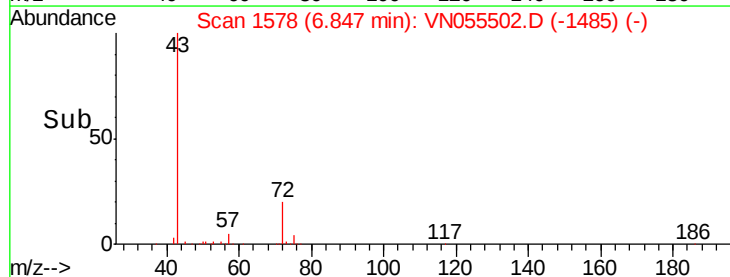
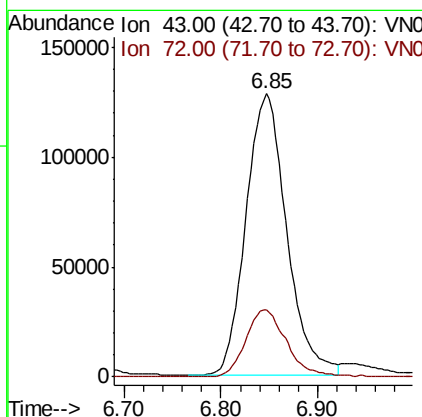
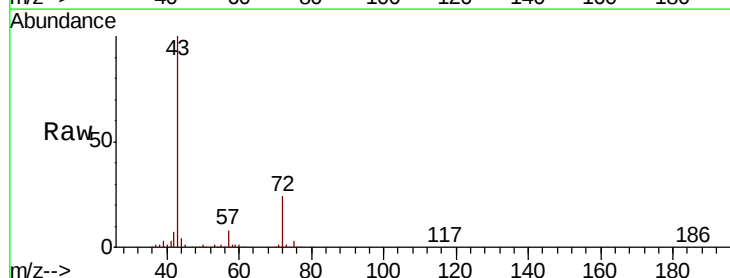
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 COMP-1

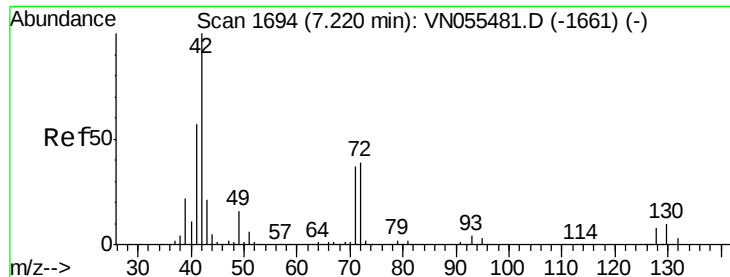
Tot Ion: 43 Resp: 1303413  
 Ion Ratio Lower Upper  
 43 100  
 86 0.0 7.1 10.7#



#25  
 2-Butanone  
 Concen: 42.053 ug/l  
 RT: 6.85 min Scan# 1578  
 Delta R.T. -0.00 min  
 Lab File: VN055502.D  
 Acq: 9 May 2019 17:19

Tgt Ion: 43 Resp: 375373  
 Ion Ratio Lower Upper  
 43 100  
 72 23.9 18.6 27.8





#29

Tetrahydrofuran

Concen: 0.281 ug/l

RT: 7.24 min Scan# 1699

Delta R.T. 0.02 min

Lab File: VN055502.D

Acq: 9 May 2019 17:19

Instrument :

MSVOA\_N

ClientSampled :

COMP-1

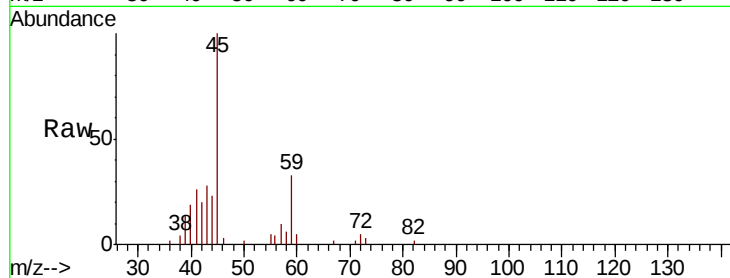
Tot Ion: 42 Resp: 1658

Ion Ratio Lower Upper

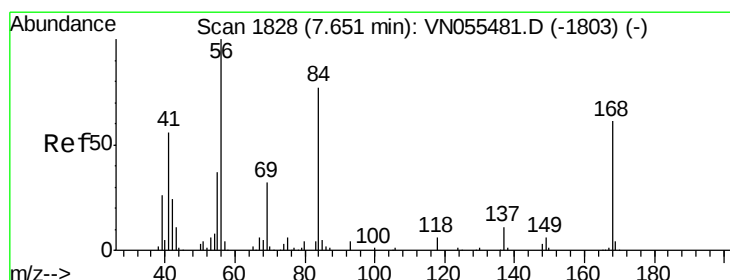
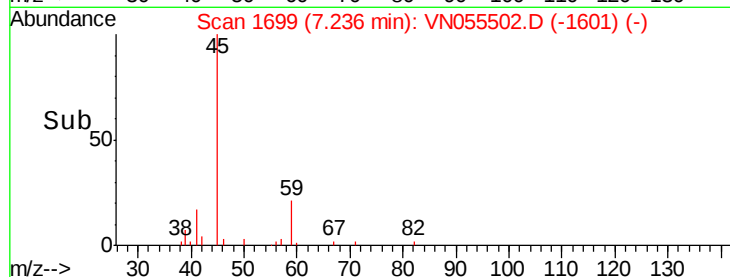
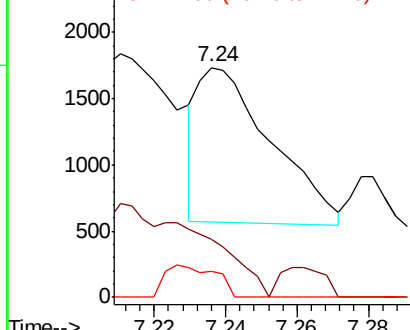
42 100

72 0.0 31.0 46.6#

71 14.2 29.4 44.2#



Abundance Ion 42.00 (41.70 to 42.70): VNO  
Ion 72.00 (71.70 to 72.70): VNO  
Ion 71.00 (70.70 to 71.70): VNO



#31

Cyclohexane

Concen: 0.900 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. 0.01 min

Lab File: VN055502.D

Acq: 9 May 2019 17:19

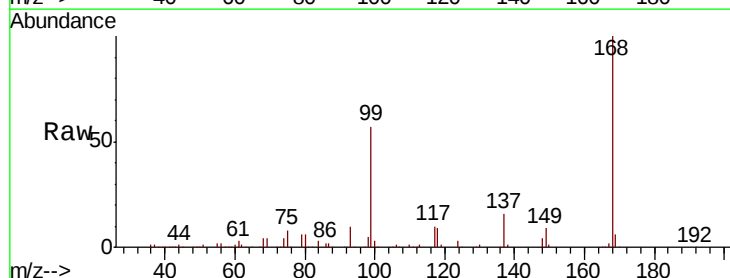
Tgt Ion: 56 Resp: 20277

Ion Ratio Lower Upper

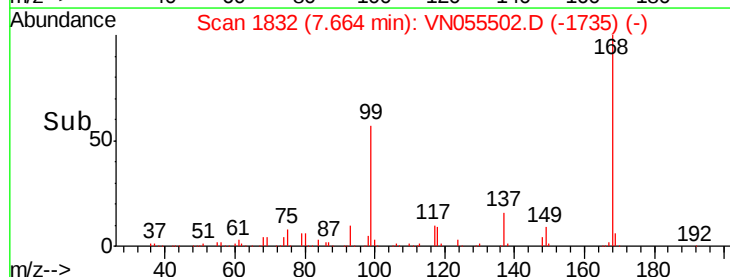
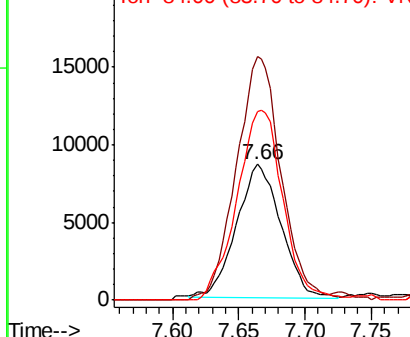
56 100

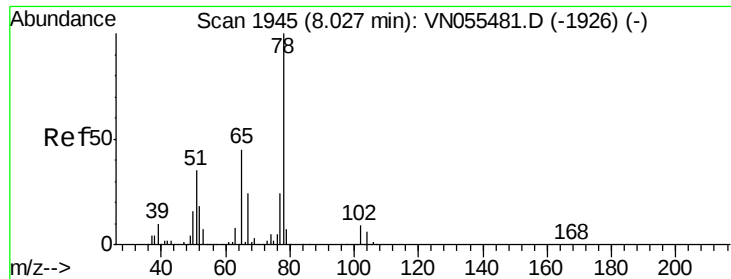
69 183.3 26.0 39.0#

84 141.9 61.9 92.9#



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

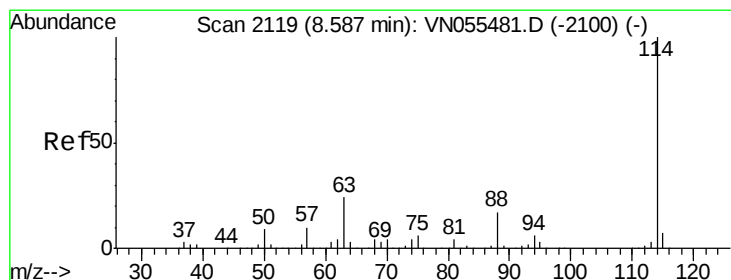
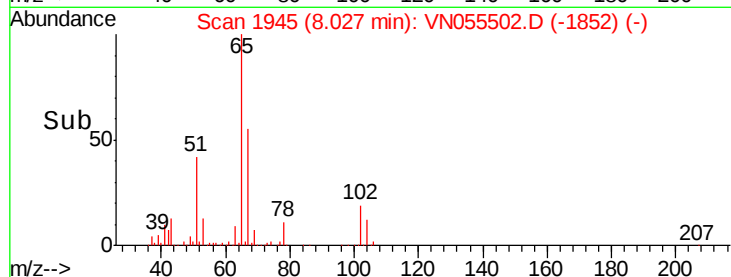
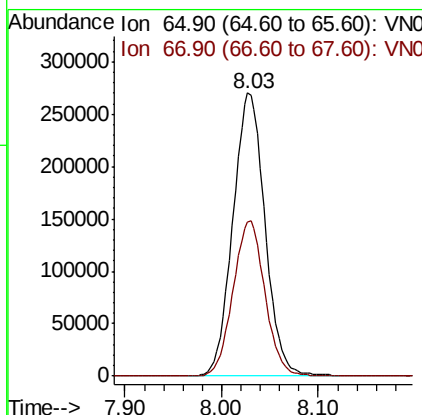
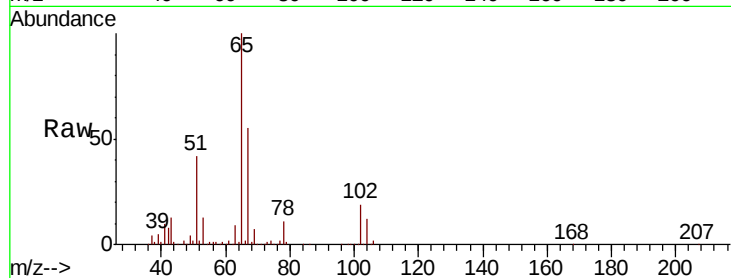




#33  
 1,2-Dichloroethane-d4  
 Concen: 44.591 ug/l  
 RT: 8.03 min Scan# 1945  
 Delta R.T. -0.00 min  
 Lab File: VN055502.D  
 Acq: 9 May 2019 17:19

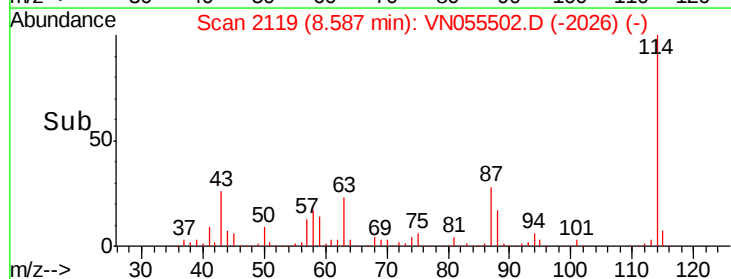
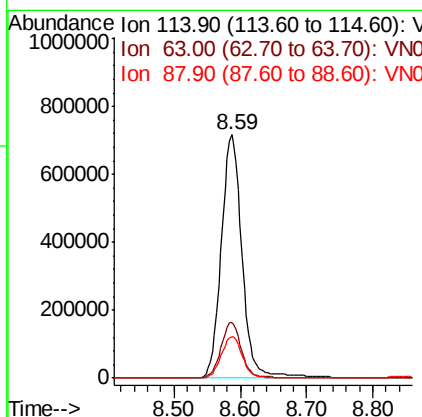
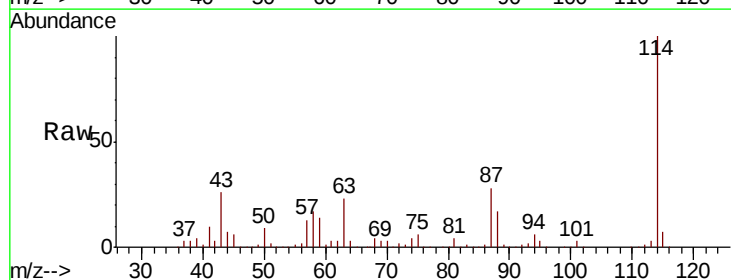
Instrument :  
 MSVOA\_N  
 ClientSampled :  
 COMP-1

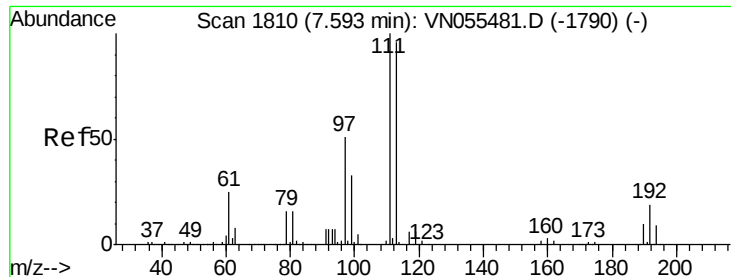
Tot Ion: 65 Resp: 622293  
 Ion Ratio Lower Upper  
 65 100  
 67 54.5 0.0 109.6



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.59 min Scan# 2119  
 Delta R.T. -0.00 min  
 Lab File: VN055502.D  
 Acq: 9 May 2019 17:19

Tgt Ion: 114 Resp: 1562884  
 Ion Ratio Lower Upper  
 114 100  
 63 23.0 0.0 47.4  
 88 17.2 0.0 34.0

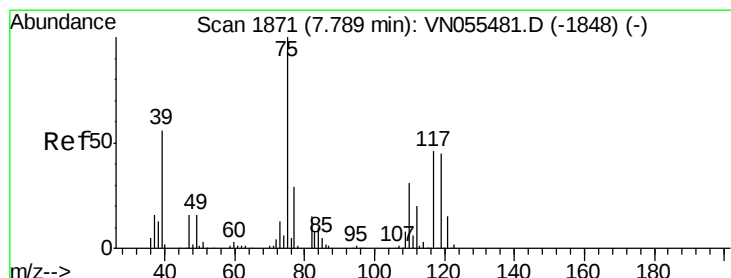
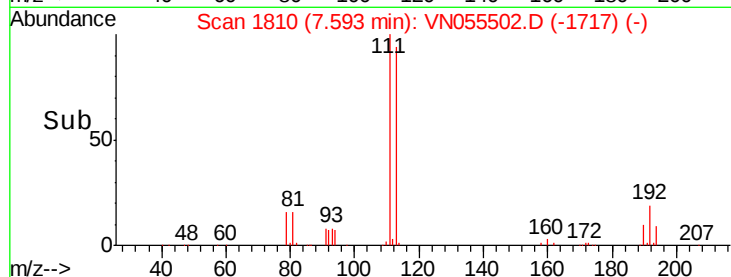
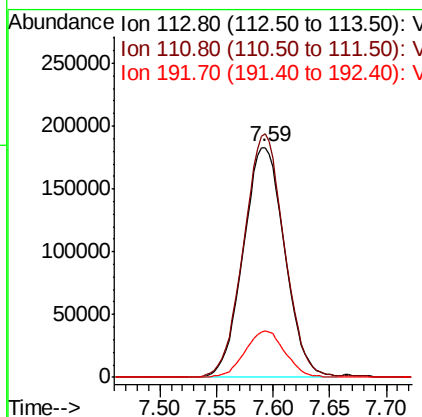
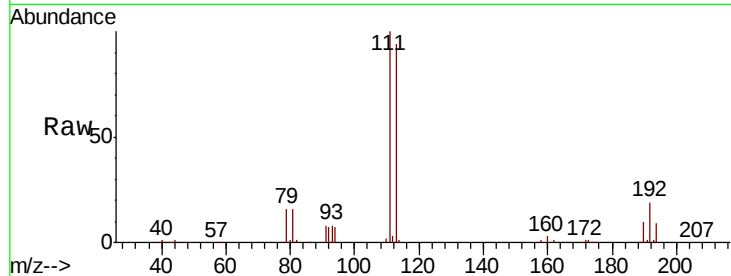




#35  
 Dibromofluoromethane  
 Concen: 46.238 ug/l  
 RT: 7.59 min Scan# 1810  
 Delta R.T. -0.00 min  
 Lab File: VN055502.D  
 Acq: 9 May 2019 17:19

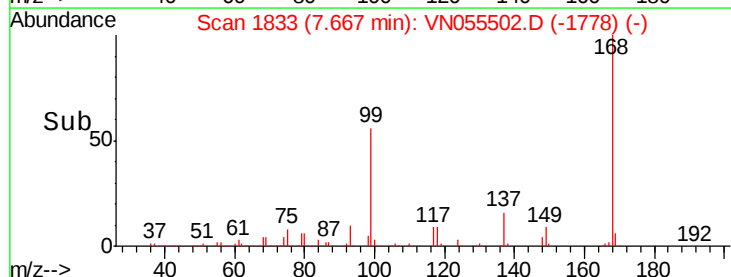
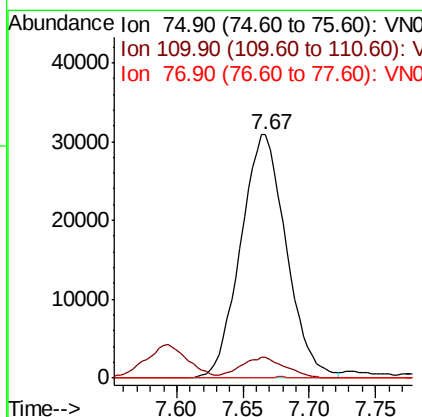
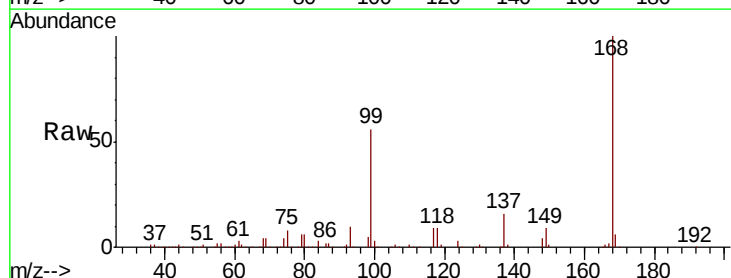
Instrument :  
 MSVOA\_N  
 ClientSampled :  
 COMP-1

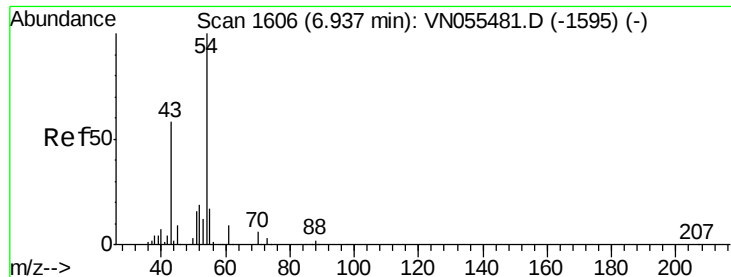
Tot Ion:113 Resp: 466162  
 Ion Ratio Lower Upper  
 113 100  
 111 104.3 82.9 124.3  
 192 19.6 15.6 23.4



#36  
 1,1-Dichloropropene  
 Concen: 4.802 ug/l  
 RT: 7.67 min Scan# 1833  
 Delta R.T. -0.12 min  
 Lab File: VN055502.D  
 Acq: 9 May 2019 17:19

Tgt Ion: 75 Resp: 73938  
 Ion Ratio Lower Upper  
 75 100  
 110 8.3 16.1 48.3#  
 77 0.0 24.6 37.0#





#37

Ethyl Acetate

Concen: 22.349 ug/l

RT: 6.85 min Scan# 1578

Delta R.T. -0.09 min

Lab File: VN055502.D

Acq: 9 May 2019 17:19

Instrument :

MSVOA\_N

ClientSampleId :

COMP-1

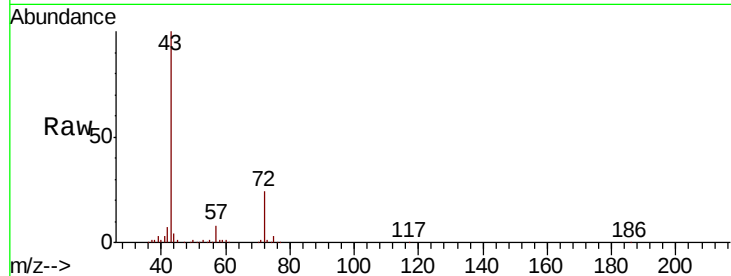
Tot Ion: 43 Resp: 375373

Ion Ratio Lower Upper

43 100

61 0.1 10.9 16.3#

70 0.1 7.0 10.6#

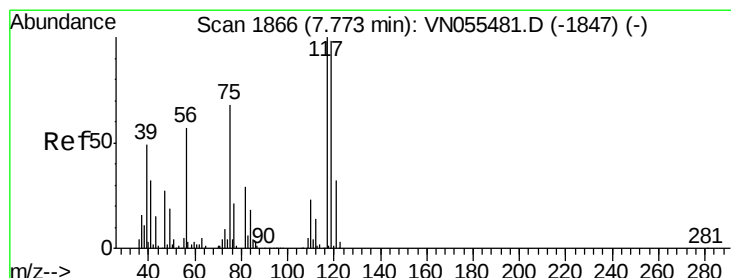
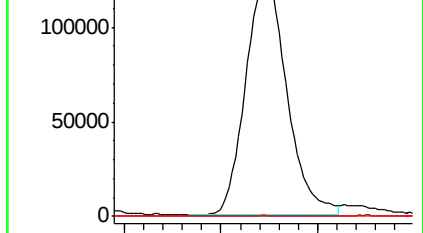
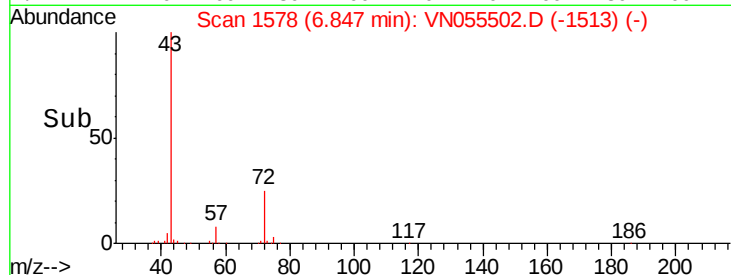


Abundance Ion 43.00 (42.70 to 43.70): VN055502.D (-1513) (-)

Ion 60.90 (60.60 to 61.60): VN055502.D (-1513) (-)

Ion 70.00 (69.70 to 70.70): VN055502.D (-1513) (-)

Time-->



#38

Carbon Tetrachloride

Concen: 6.765 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.11 min

Lab File: VN055502.D

Acq: 9 May 2019 17:19

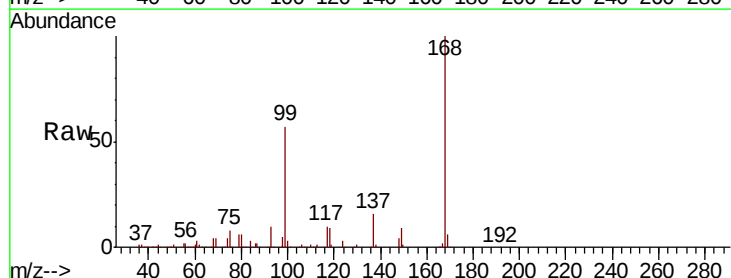
Tgt Ion: 117 Resp: 87713

Ion Ratio Lower Upper

117 100

119 6.3 77.8 116.6#

121 0.0 25.2 37.8#

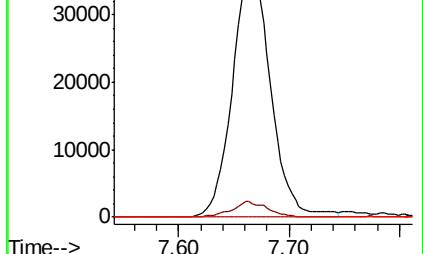
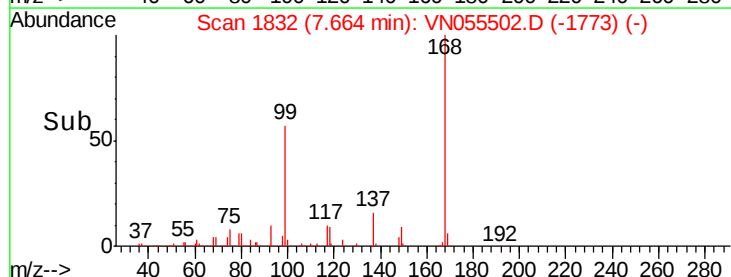


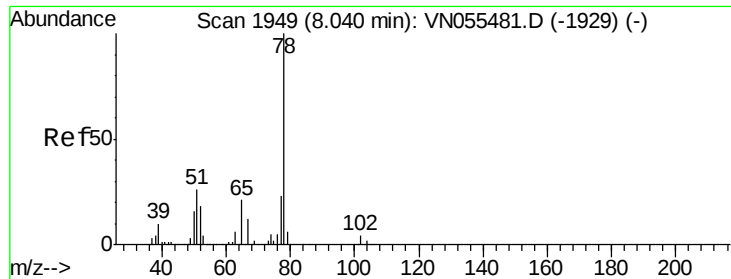
Abundance Ion 116.80 (116.50 to 117.50): VN055502.D (-1773) (-)

Ion 118.80 (118.50 to 119.50): VN055502.D (-1773) (-)

Ion 120.80 (120.50 to 121.50): VN055502.D (-1773) (-)

Time-->





#40

Benzene

Concen: 2.334 ug/l

RT: 8.04 min Scan# 1949

Delta R.T. -0.00 min

Lab File: VN055502.D

Acq: 9 May 2019 17:19

Instrument :

MSVOA\_N

ClientSampled :

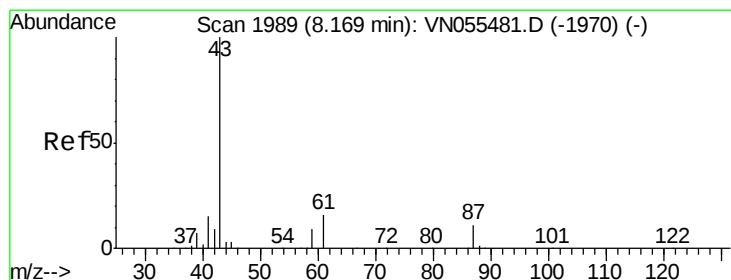
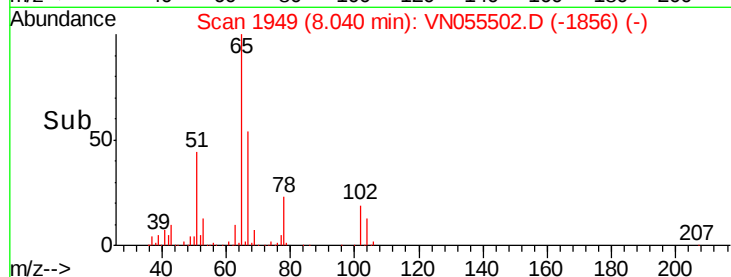
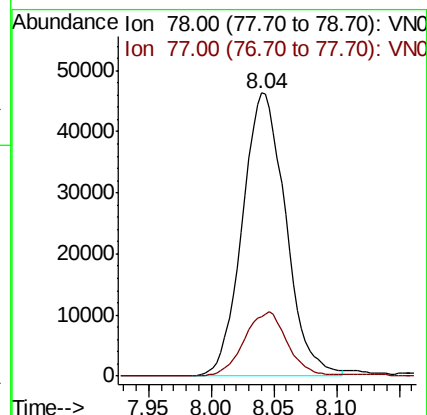
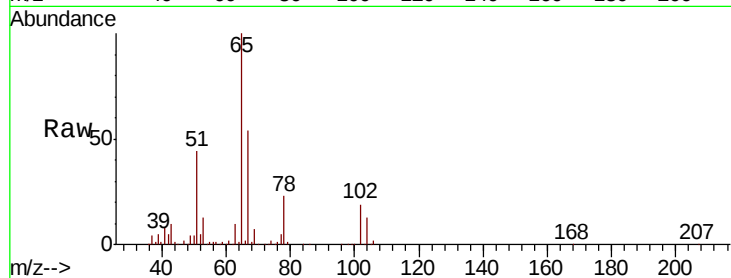
COMP-1

Tot Ion: 78 Resp: 111519

Ion Ratio Lower Upper

78 100

77 20.9 18.6 27.8



#43

Isopropyl Acetate

Concen: 0.539 ug/l

RT: 8.28 min Scan# 2023

Delta R.T. 0.11 min

Lab File: VN055502.D

Acq: 9 May 2019 17:19

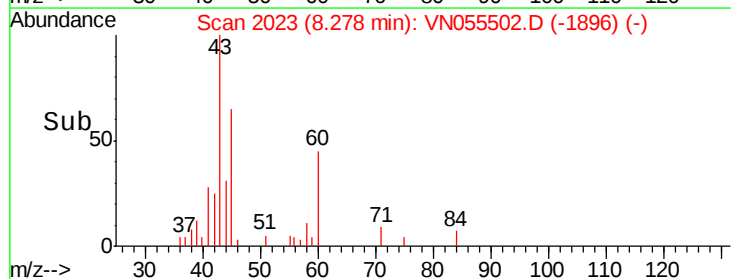
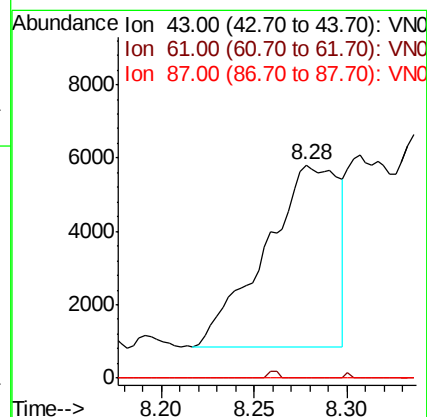
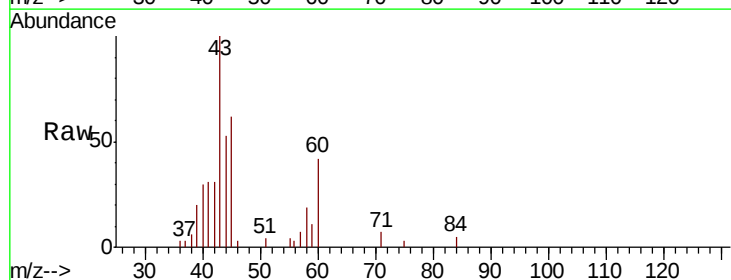
Tgt Ion: 43 Resp: 13742

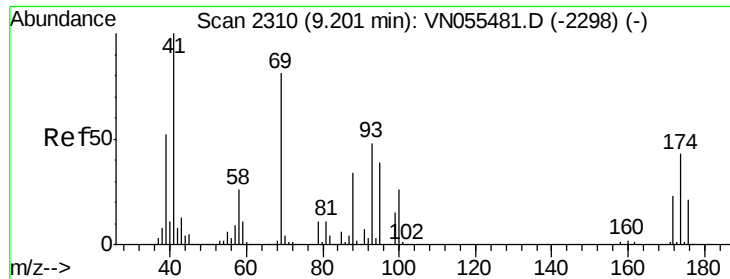
Ion Ratio Lower Upper

43 100

61 0.0 15.1 22.7#

87 0.0 9.0 13.6#

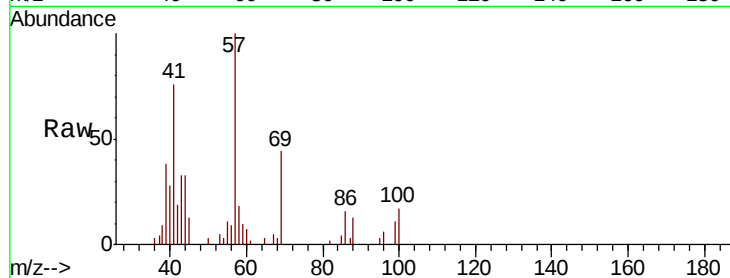




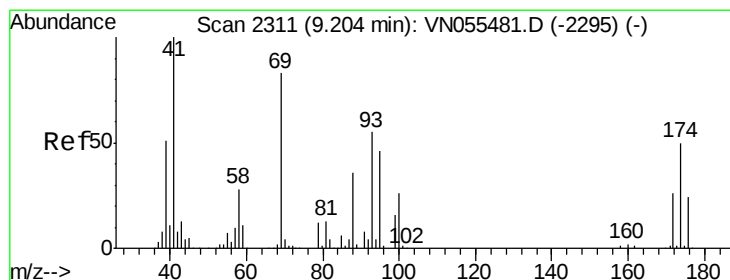
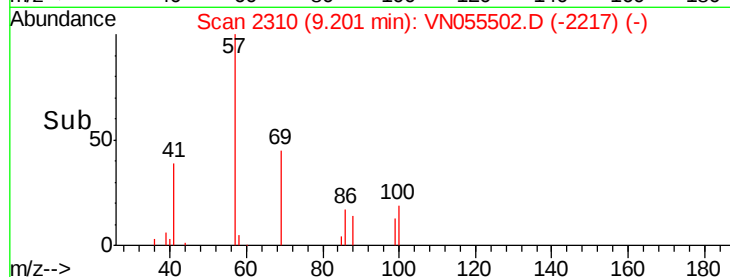
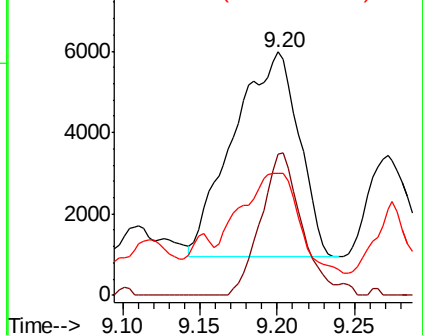
#48  
Methvl methacrylate  
Concen: 1.202 ug/l  
RT: 9.20 min Scan# 2310  
Delta R.T. -0.00 min  
Lab File: VN055502.D  
Acq: 9 May 2019 17:19

Instrument :  
MSVOA\_N  
ClientSampled :  
COMP-1

Tot Ion: 41 Resp: 14778  
Ion Ratio Lower Upper  
41 100  
69 43.2 64.2 96.2#  
39 45.8 41.6 62.4

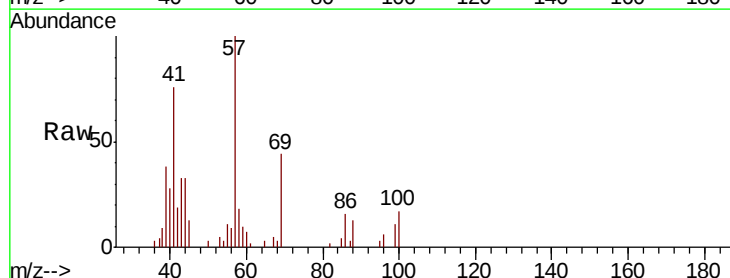


Abundance Ion 41.00 (40.70 to 41.70): VNC  
Ion 69.00 (68.70 to 69.70): VNC  
Ion 39.00 (38.70 to 39.70): VNC

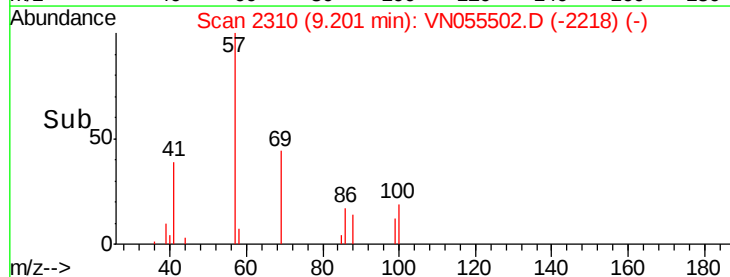
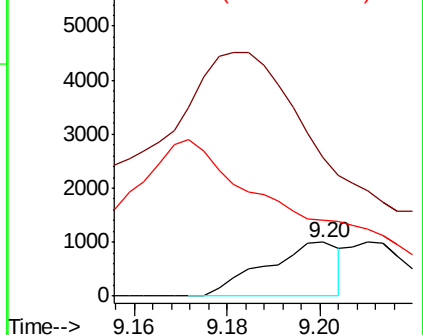


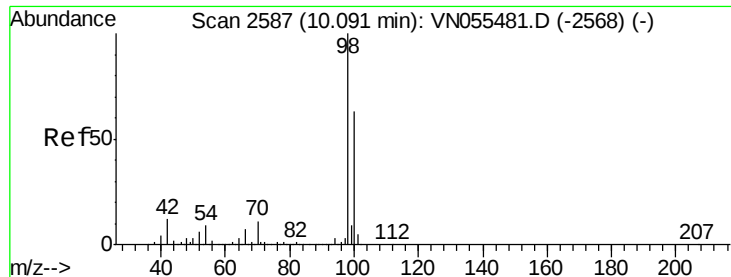
#49  
1,4-Dioxane  
Concen: 4.620 ug/l  
RT: 9.20 min Scan# 2310  
Delta R.T. -0.00 min  
Lab File: VN055502.D  
Acq: 9 May 2019 17:19

Tgt Ion: 88 Resp: 1107  
Ion Ratio Lower Upper  
88 100  
43 0.0 27.8 41.8#  
58 0.0 61.8 92.6#



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: 48.174 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN055502.D

Acq: 9 May 2019 17:19

Instrument :

MSVOA\_N

ClientSampled :

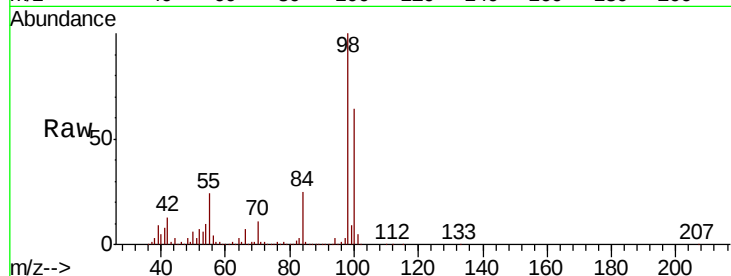
COMP-1

Tot Ion: 98 Resp: 1892656

Ion Ratio Lower Upper

98 100

100 63.4 50.4 75.6



Abundance Ion 98.00 (97.70 to 98.70): VN055481.D (-2568) (-)

Ion 100.00 (99.70 to 100.70): VN055481.D (-2568) (-)

10.09

1000000

800000

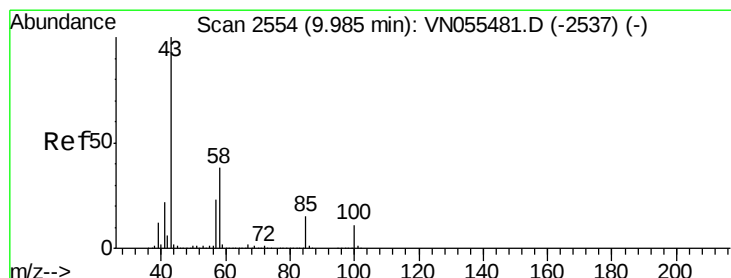
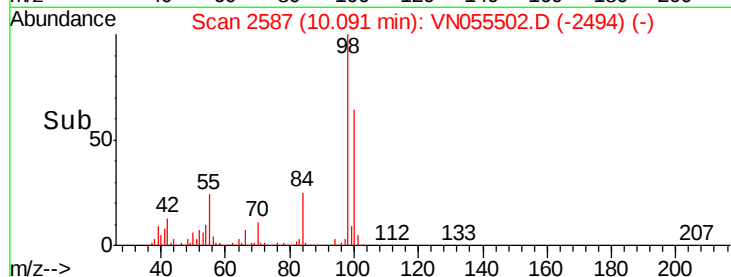
600000

400000

200000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 2.865 ug/l

RT: 9.99 min Scan# 2554

Delta R.T. -0.00 min

Lab File: VN055502.D

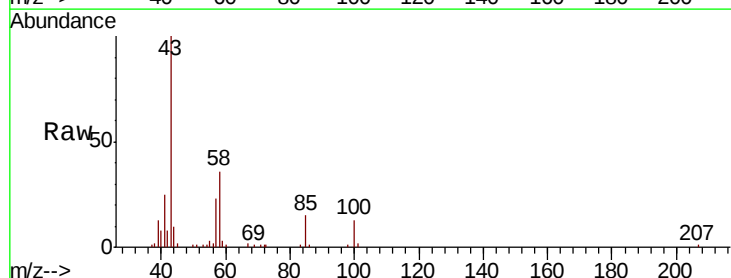
Acq: 9 May 2019 17:19

Tgt Ion: 43 Resp: 48083

Ion Ratio Lower Upper

43 100

58 38.2 29.9 44.9



Abundance Ion 43.00 (42.70 to 43.70): VN055481.D (-2537) (-)

Ion 58.00 (57.70 to 58.70): VN055481.D (-2537) (-)

9.99

30000

25000

20000

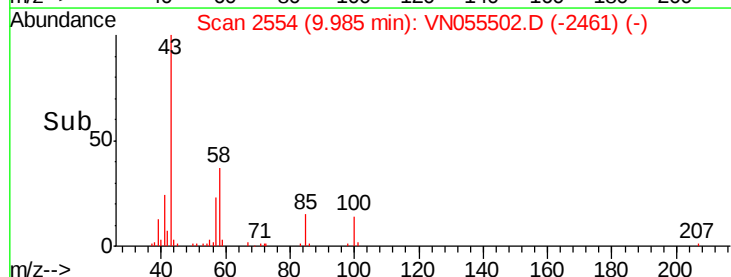
15000

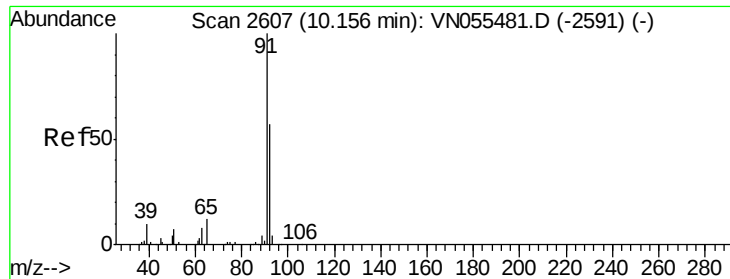
10000

5000

0

Time-->





#52

Toluene

Concen: 3.144 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. -0.00 min

Lab File: VN055502.D

Acq: 9 May 2019 17:19

Instrument :

MSVOA\_N

ClientSampled :

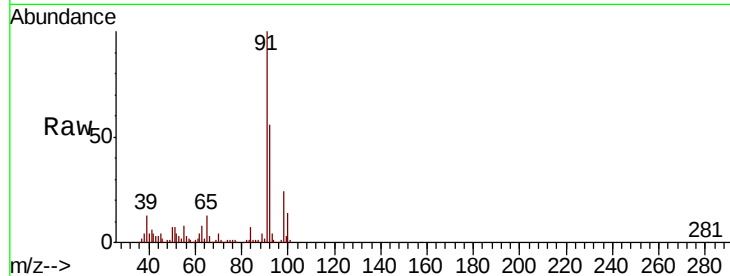
COMP-1

Tot Ion: 92 Resp: 85894

Ion Ratio Lower Upper

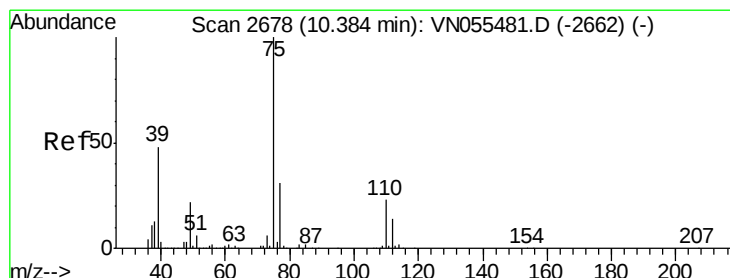
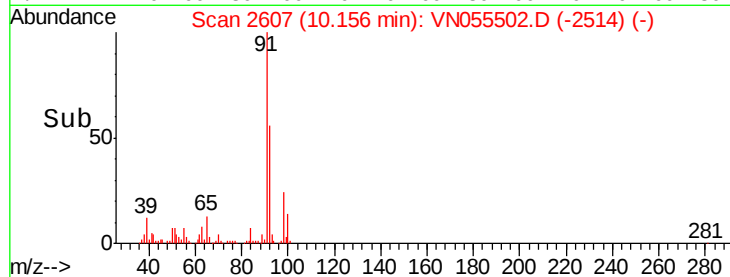
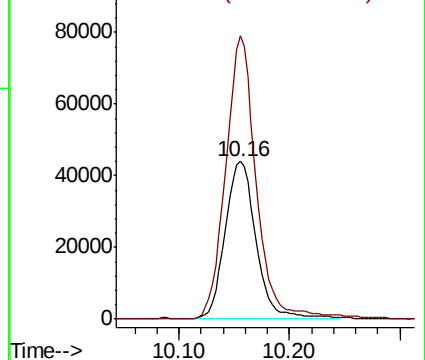
92 100

91 176.0 140.5 210.7



Abundance Ion 92.00 (91.70 to 92.70): VN0

Ion 91.00 (90.70 to 91.70): VN0



#53

t-1,3-Dichloropropene

Concen: 0.319 ug/l

RT: 10.35 min Scan# 2667

Delta R.T. -0.04 min

Lab File: VN055502.D

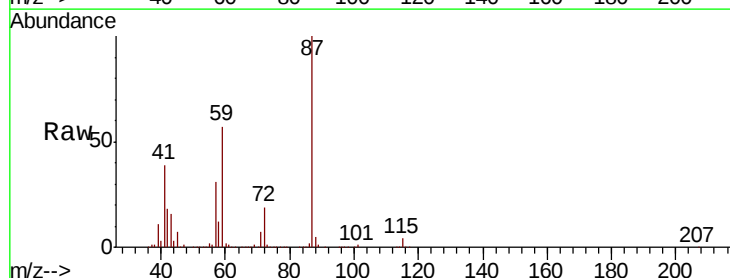
Acq: 9 May 2019 17:19

Tgt Ion: 75 Resp: 4652

Ion Ratio Lower Upper

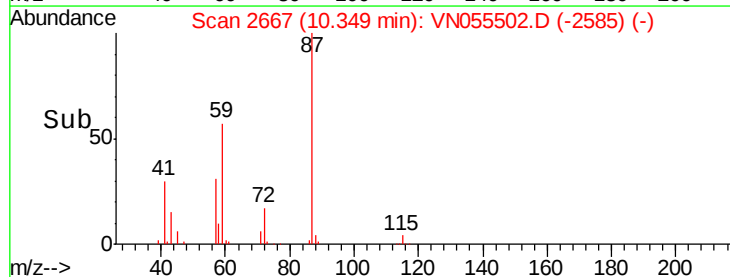
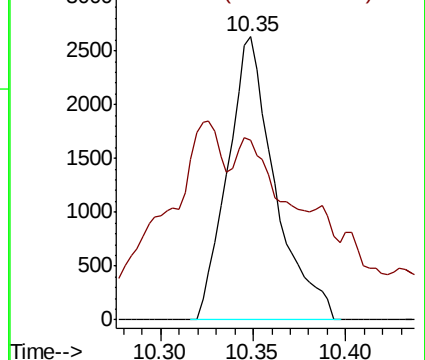
75 100

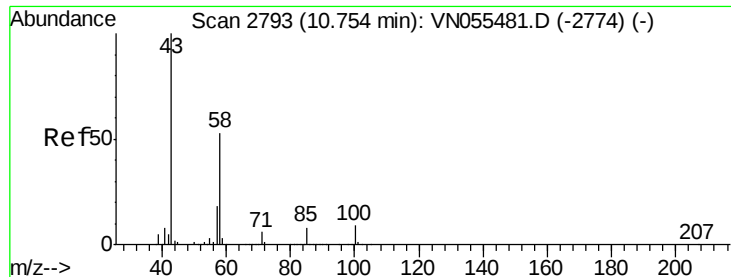
77 35.9 25.1 37.7



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

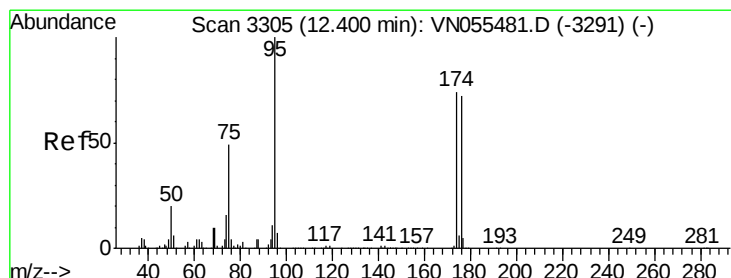
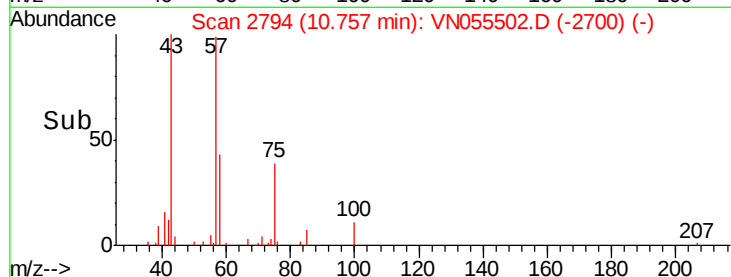
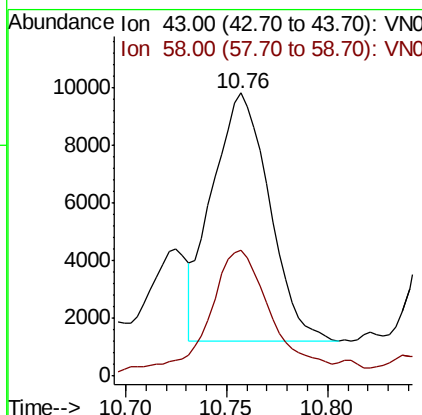
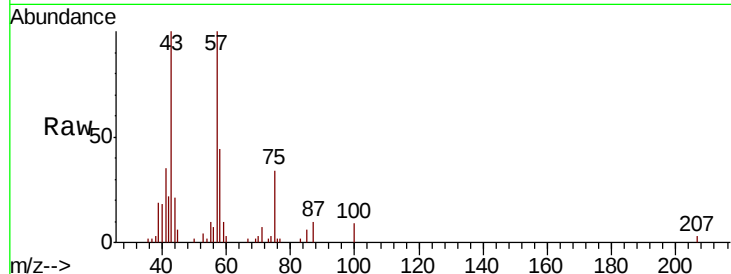




#59  
2-Hexanone  
Concen: 1.438 ug/l  
RT: 10.76 min Scan# 2794  
Delta R.T. 0.00 min  
Lab File: VN055502.D  
Acq: 9 May 2019 17:19

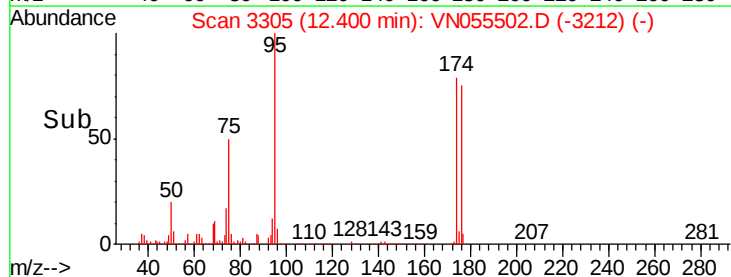
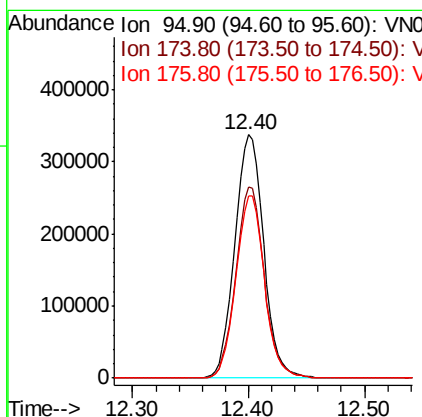
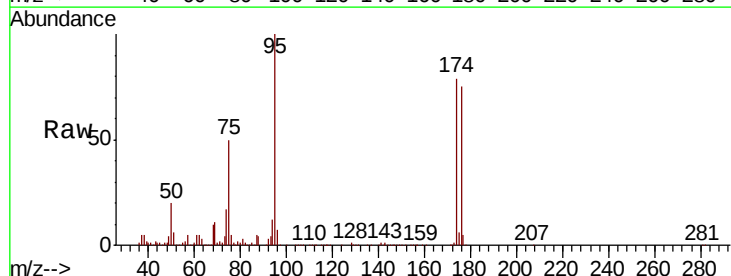
Instrument :  
MSVOA\_N  
ClientSampled :  
COMP-1

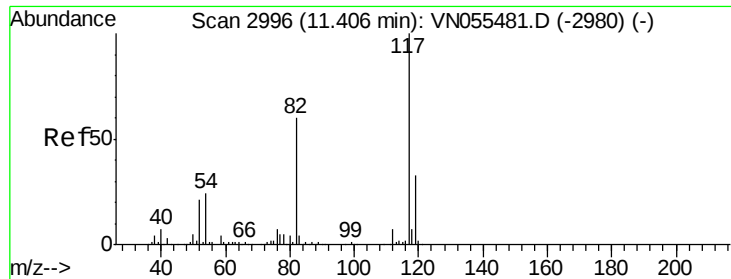
Tot Ion: 43 Resp: 16929  
Ion Ratio Lower Upper  
43 100  
58 57.9 26.4 79.0



#62  
4-Bromofluorobenzene  
Concen: 43.801 ug/l  
RT: 12.40 min Scan# 3305  
Delta R.T. -0.00 min  
Lab File: VN055502.D  
Acq: 9 May 2019 17:19

Tgt Ion: 95 Resp: 580249  
Ion Ratio Lower Upper  
95 100  
174 77.3 0.0 152.2  
176 74.3 0.0 147.8

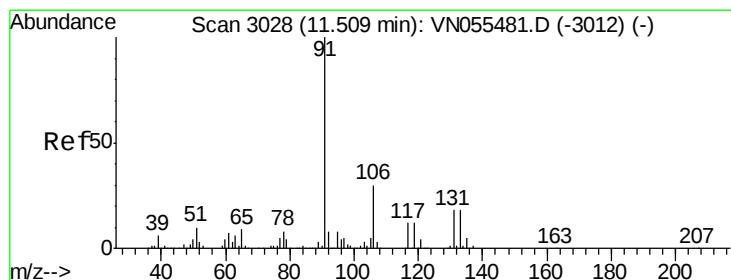
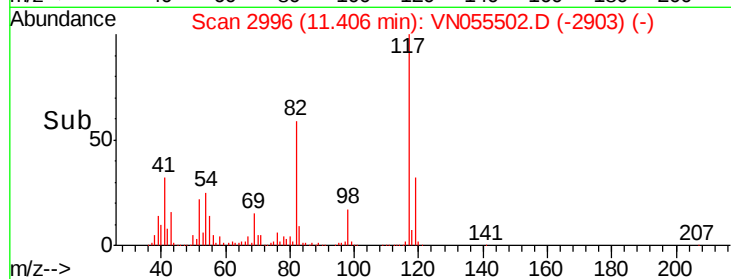
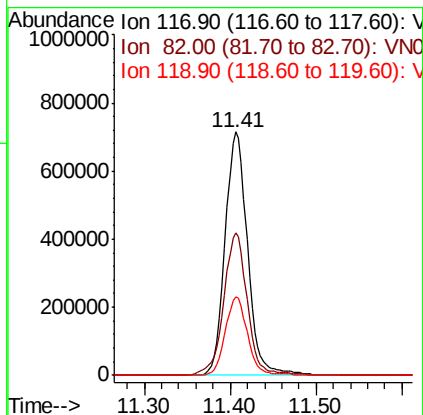
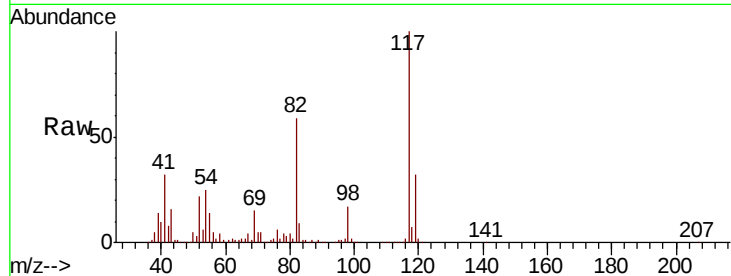




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.41 min Scan# 2996  
Delta R.T. -0.00 min  
Lab File: VN055502.D  
Acq: 9 May 2019 17:19

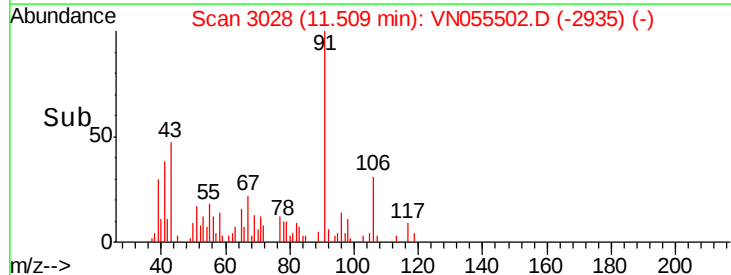
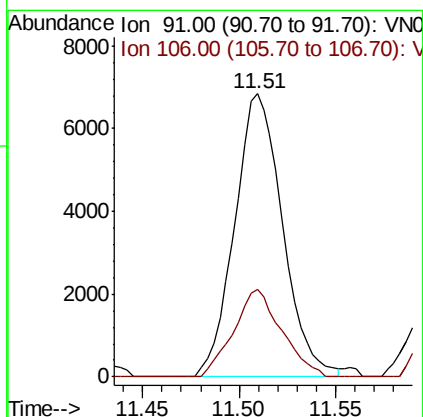
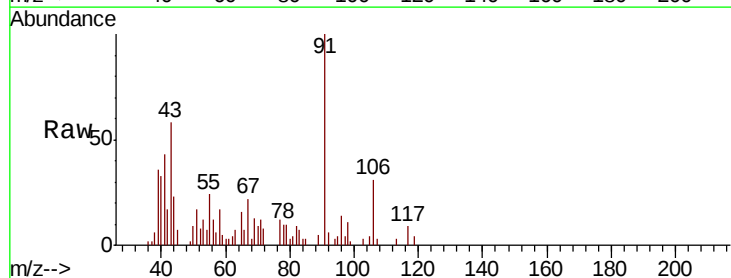
Instrument :  
MSVOA\_N  
ClientSampleId :  
COMP-1

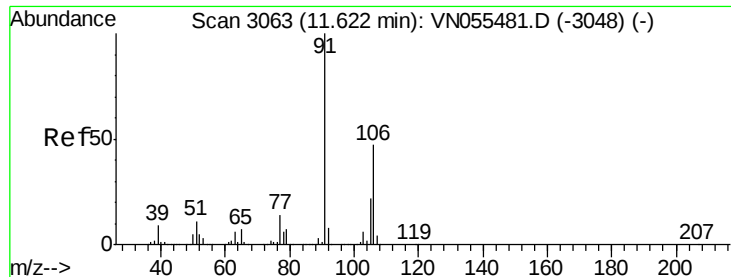
Tot Ion:117 Resp: 1301040  
Ion Ratio Lower Upper  
117 100  
82 58.5 48.0 72.0  
119 32.4 26.0 39.0



#67  
Ethyl Benzene  
Concen: 0.235 ug/l  
RT: 11.51 min Scan# 3028  
Delta R.T. -0.00 min  
Lab File: VN055502.D  
Acq: 9 May 2019 17:19

Tgt Ion: 91 Resp: 11795  
Ion Ratio Lower Upper  
91 100  
106 30.7 23.8 35.6





#68

m/p-Xylenes

Concen: 0.954 ug/l

RT: 11.62 min Scan# 3061

Delta R.T. -0.01 min

Lab File: VN055502.D

Acq: 9 May 2019 17:19

Instrument :

MSVOA\_N

ClientSampleId :

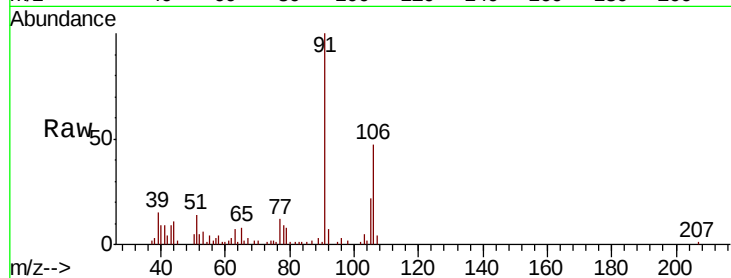
COMP-1

Tot Ion:106 Resp: 17211

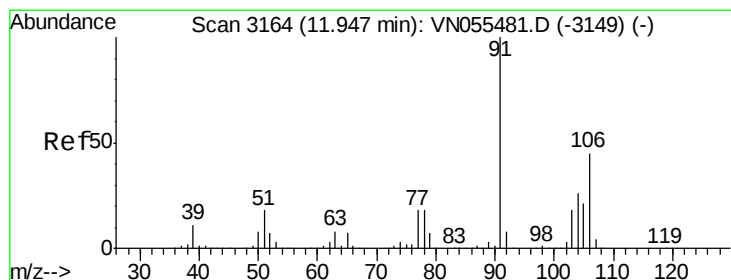
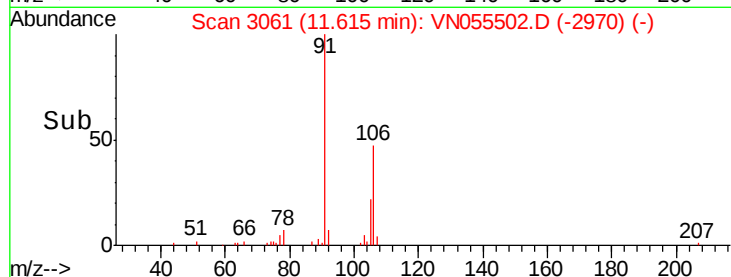
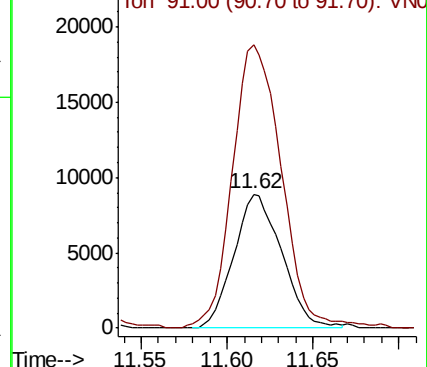
Ion Ratio Lower Upper

106 100

91 216.1 169.2 253.8



Abundance Ion 106.00 (105.70 to 106.70): V



#69

o-Xylene

Concen: 0.462 ug/l

RT: 11.95 min Scan# 3164

Delta R.T. -0.00 min

Lab File: VN055502.D

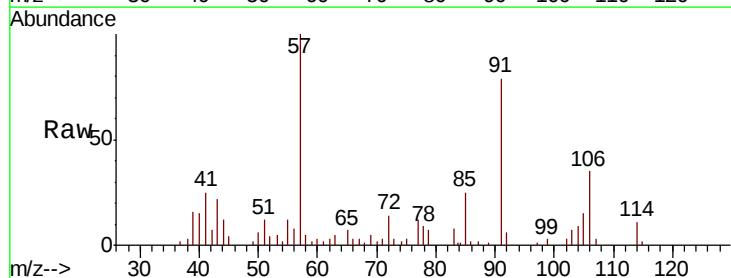
Acq: 9 May 2019 17:19

Tgt Ion:106 Resp: 8190

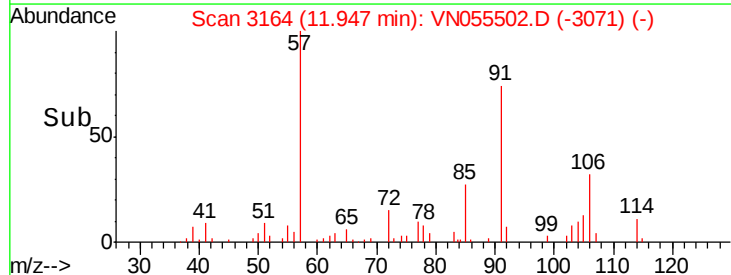
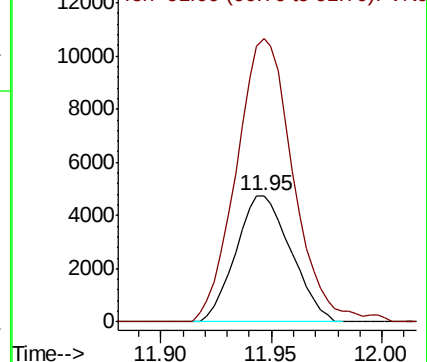
Ion Ratio Lower Upper

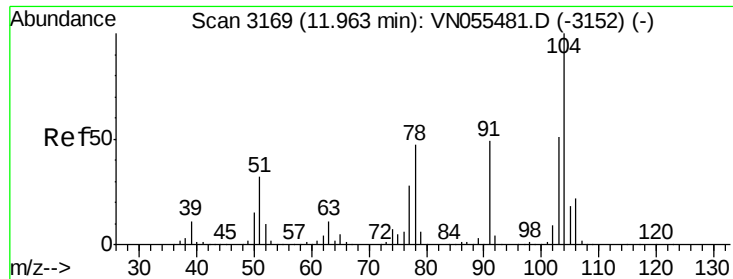
106 100

91 232.8 111.3 333.8



Abundance Ion 106.00 (105.70 to 106.70): V

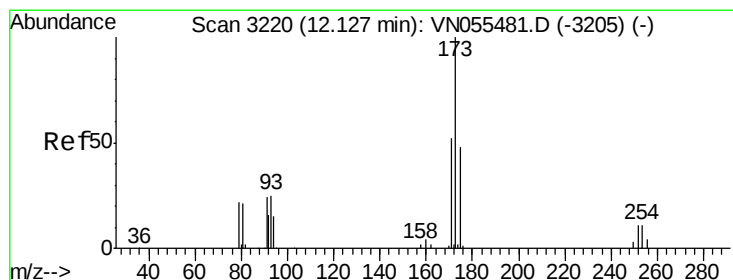
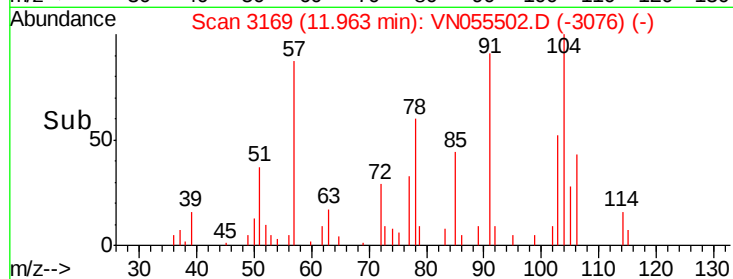
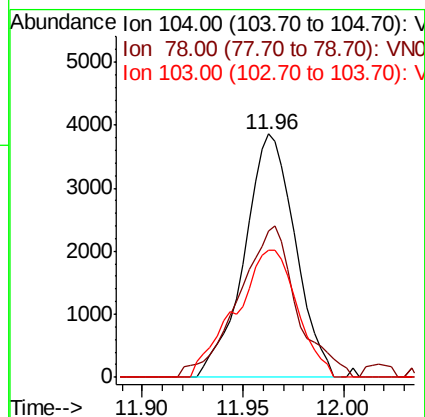
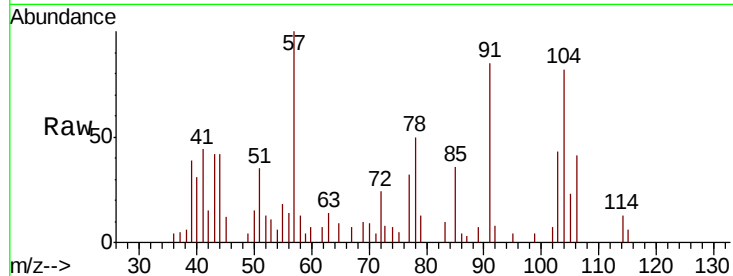




#70  
Stvrene  
Concen: 0.239 ug/l  
RT: 11.96 min Scan# 3169  
Delta R.T. -0.00 min  
Lab File: VN055502.D  
Acq: 9 May 2019 17:19

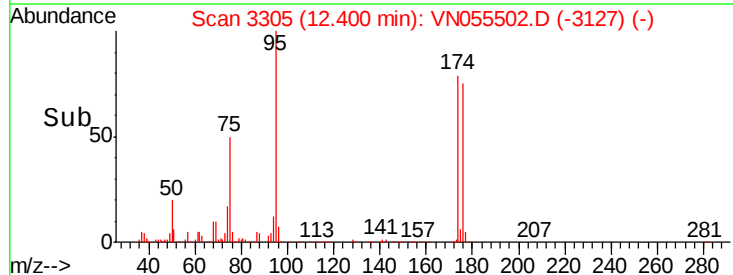
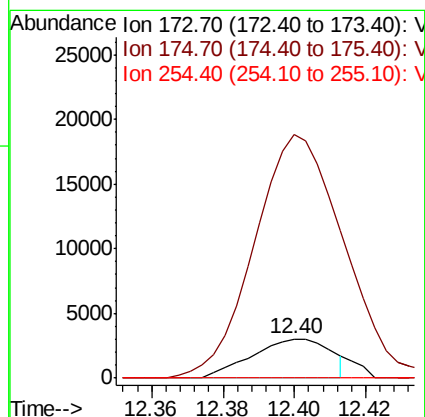
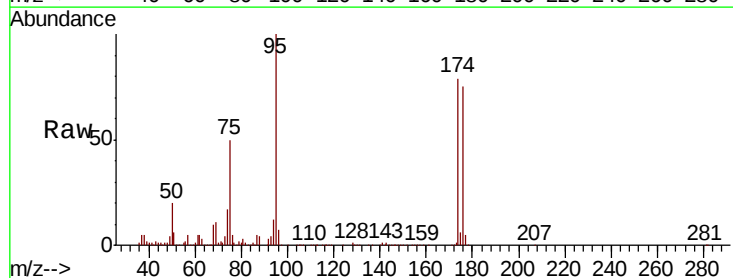
Instrument :  
MSVOA\_N  
ClientSampled :  
COMP-1

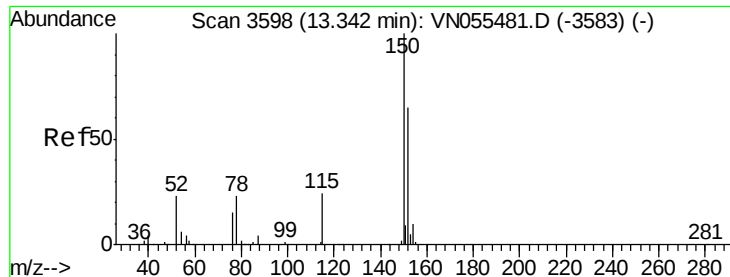
Tot Ion:104 Resp: 6791  
Ion Ratio Lower Upper  
104 100  
78 71.2 41.6 62.4#  
103 63.4 44.4 66.6



#71  
Bromoform  
Concen: 0.743 ug/l  
RT: 12.40 min Scan# 3305  
Delta R.T. 0.27 min  
Lab File: VN055502.D  
Acq: 9 May 2019 17:19

Tgt Ion:173 Resp: 4622  
Ion Ratio Lower Upper  
173 100  
175 605.9 24.1 72.4#  
254 0.0 0.1 0.1#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. -0.00 min

Lab File: VN055502.D

Acq: 9 May 2019 17:19

Instrument :

MSVOA\_N

ClientSampled :

COMP-1

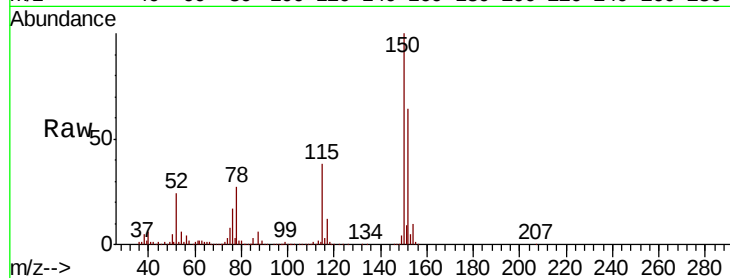
Tot Ion:152 Resp: 446117

Ion Ratio Lower Upper

152 100

115 60.3 30.1 90.5

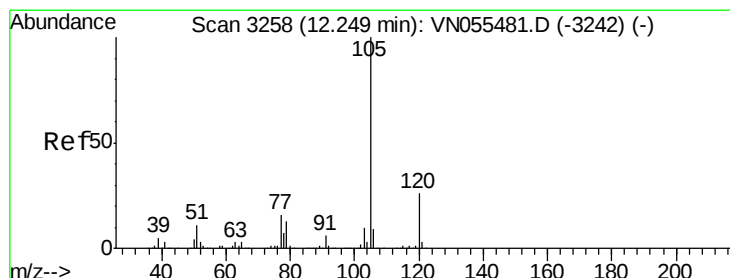
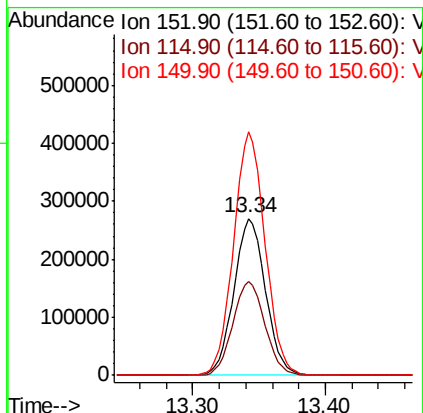
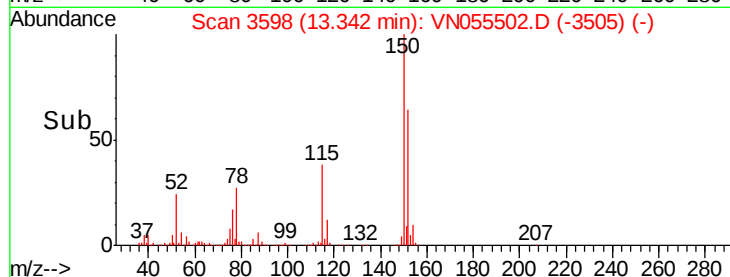
150 155.0 0.0 355.0



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



#73

Isopropylbenzene

Concen: Below Cal

RT: 12.25 min Scan# 3257

Delta R.T. -0.00 min

Lab File: VN055502.D

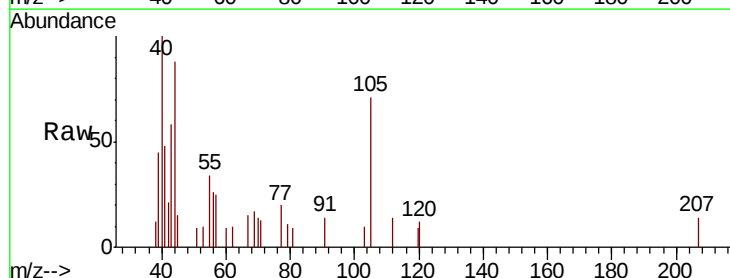
Acq: 9 May 2019 17:19

Tgt Ion:105 Resp: 1841

Ion Ratio Lower Upper

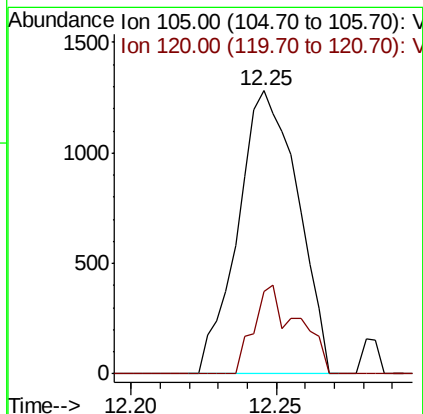
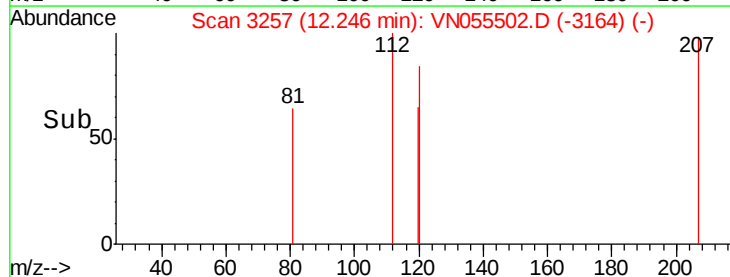
105 100

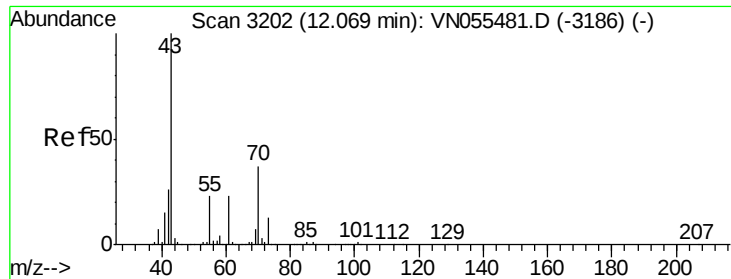
120 23.0 13.0 39.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#74

N-amvl acetate

Concen: 2.098 ug/l

RT: 12.03 min Scan# 3190

Delta R.T. -0.04 min

Lab File: VN055502.D

Acq: 9 May 2019 17:19

Instrument :

MSVOA\_N

ClientSampled :

COMP-1

Tot Ion: 43 Resp: 35533

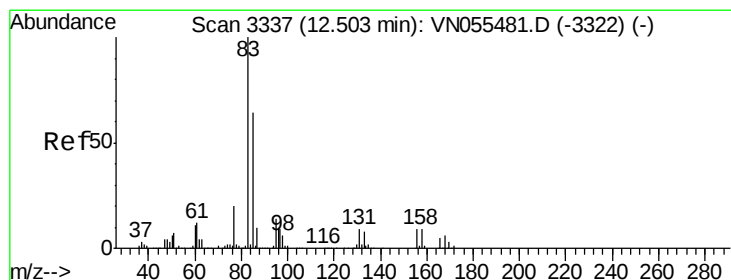
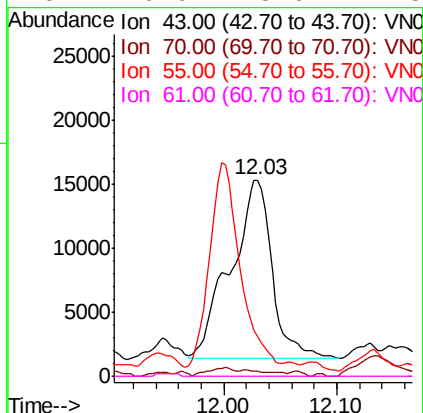
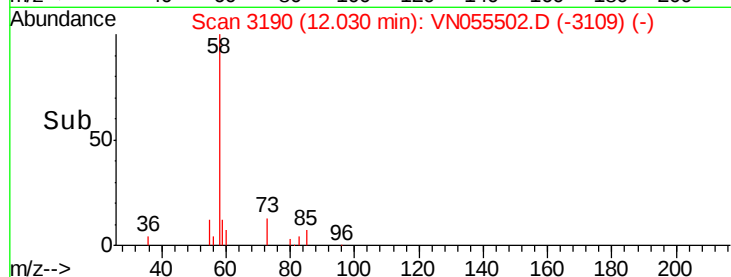
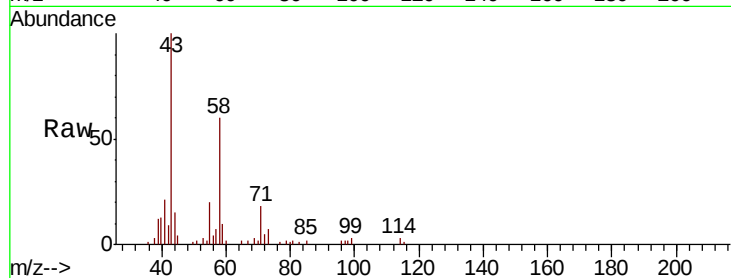
Ion Ratio Lower Upper

43 100

70 0.0 30.7 46.1#

55 0.0 19.3 28.9#

61 0.0 18.6 27.8#



#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.52 min Scan# 3343

Delta R.T. 0.02 min

Lab File: VN055502.D

Acq: 9 May 2019 17:19

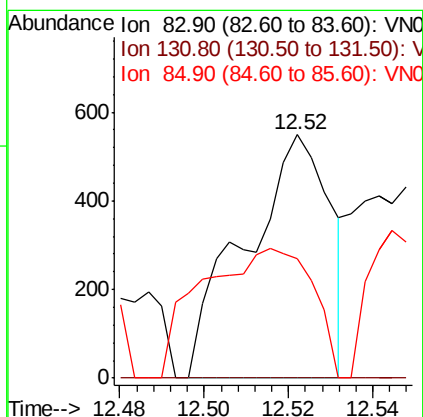
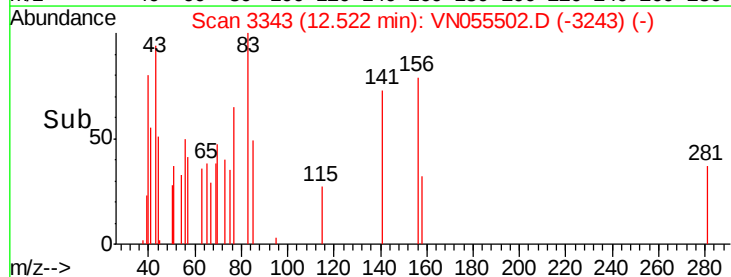
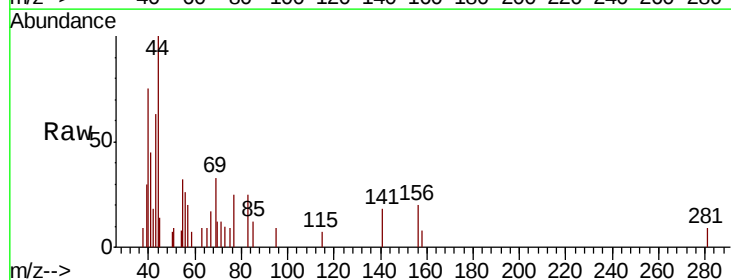
Tgt Ion: 83 Resp: 771

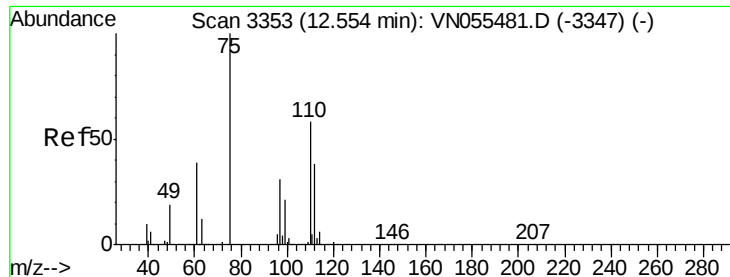
Ion Ratio Lower Upper

83 100

131 0.0 4.5 13.5#

85 69.6 32.0 96.0





#76

1,2,3-Trichloropropane

Concen: 23.937 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN055502.D

Acq: 9 May 2019 17:19

Instrument :

MSVOA\_N

ClientSampleId :

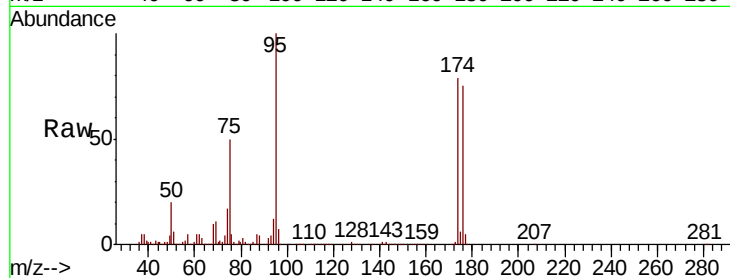
COMP-1

Tot Ion: 75 Resp: 290707

Ion Ratio Lower Upper

75 100

77 1.3 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 77.00 (76.70 to 77.70): VNO

200000

150000

100000

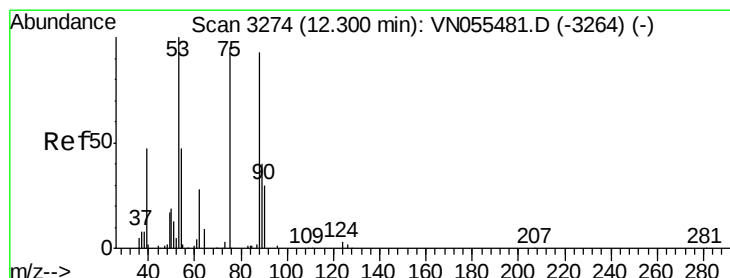
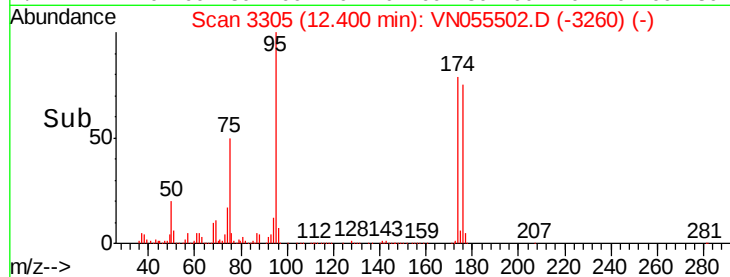
50000

0

12.40

12.30 12.40 12.50

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 88.323 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN055502.D

Acq: 9 May 2019 17:19

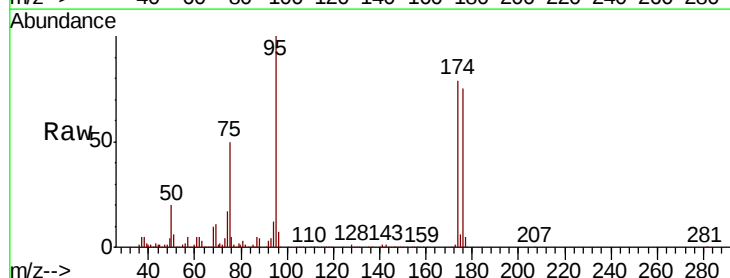
Tgt Ion: 75 Resp: 290707

Ion Ratio Lower Upper

75 100

53 0.2 86.5 129.7#

89 0.0 35.7 53.5#



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

200000

150000

100000

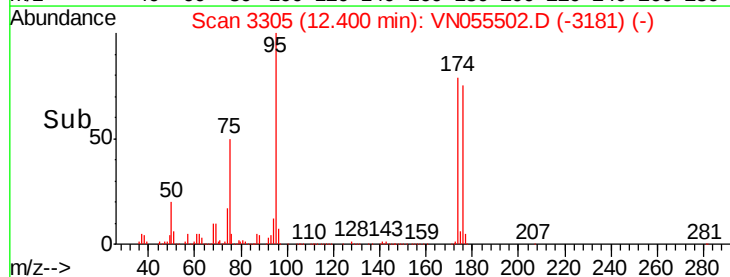
50000

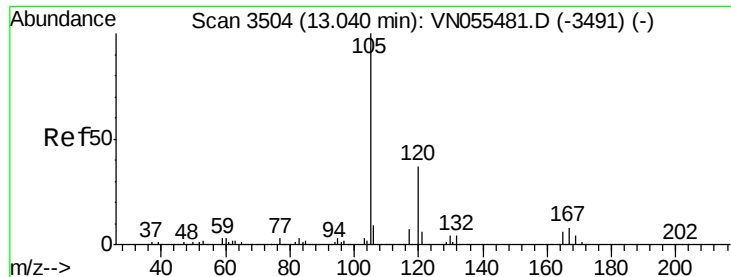
0

12.40

12.30 12.40 12.50

Time-->





#84

1,2,4-Trimethylbenzene

Concen: 0.477 ug/l

RT: 13.04 min Scan# 3504

Delta R.T. -0.00 min

Lab File: VN055502.D

Acq: 9 May 2019 17:19

Instrument :

MSVOA\_N

ClientSampled :

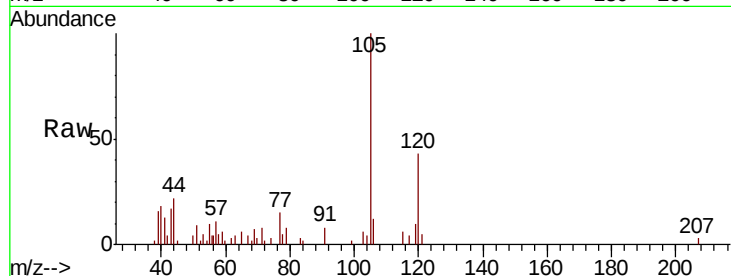
COMP-1

Tot Ion:105 Resp: 15623

Ion Ratio Lower Upper

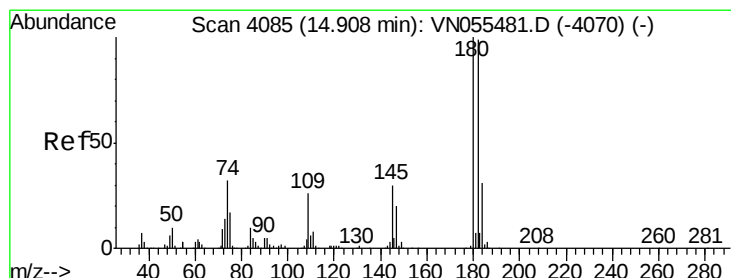
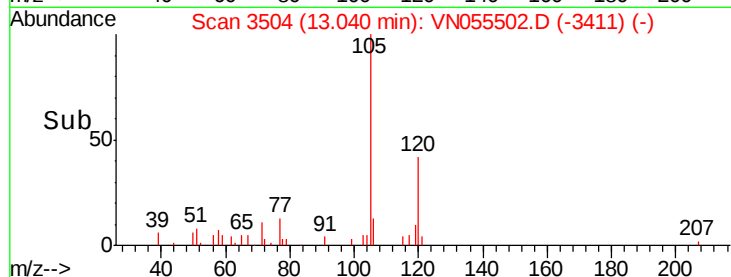
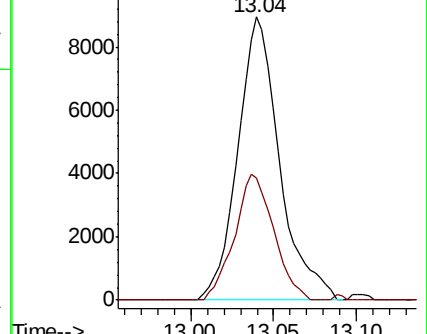
105 100

120 41.8 22.1 66.5



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#93

1,2,4-Trichlorobenzene

Concen: 3.462 ug/l

RT: 14.90 min Scan# 4084

Delta R.T. -0.00 min

Lab File: VN055502.D

Acq: 9 May 2019 17:19

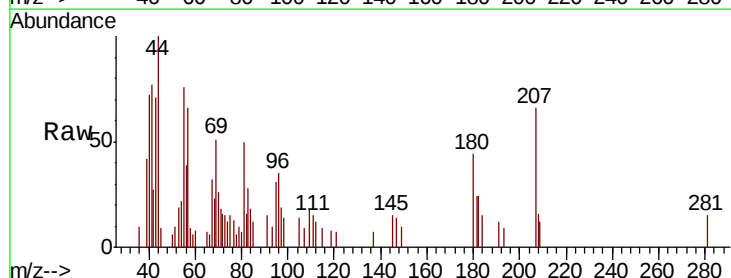
Tgt Ion:180 Resp: 1813

Ion Ratio Lower Upper

180 100

182 92.1 48.7 146.1

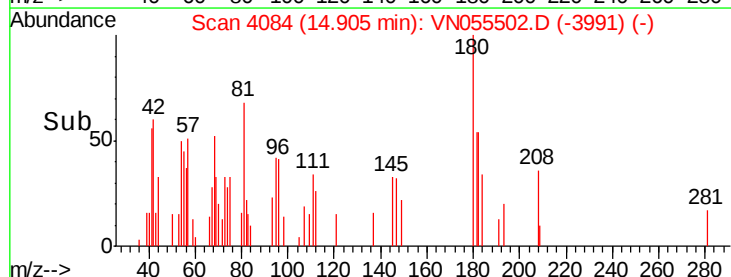
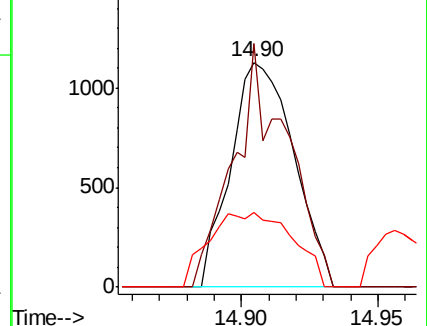
145 20.8 15.3 45.9

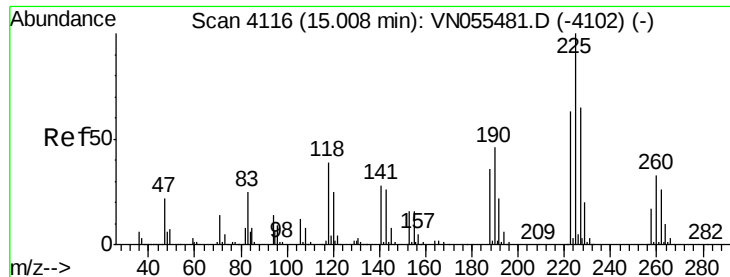


Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V





#94

Hexachlorobutadiene

Concen: Below Cal

RT: 15.01 min Scan# 4117

Delta R.T. 0.00 min

Lab File: VN055502.D

Acq: 9 May 2019 17:19

Instrument :

MSVOA\_N

ClientSampleId :

COMP-1

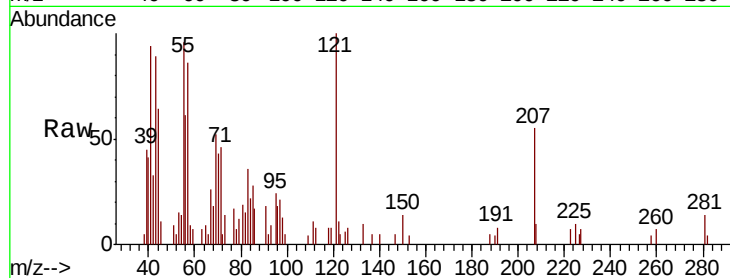
Tot Ion:225 Resp: 356

Ion Ratio Lower Upper

225 100

223 116.3 31.4 94.3#

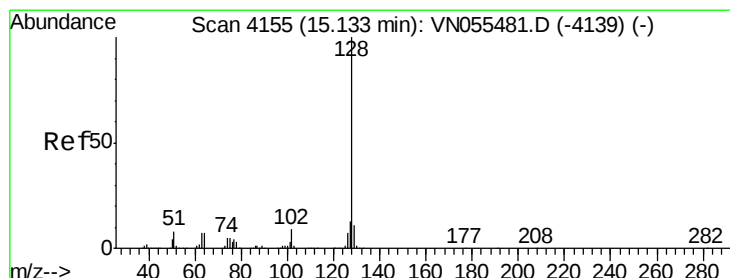
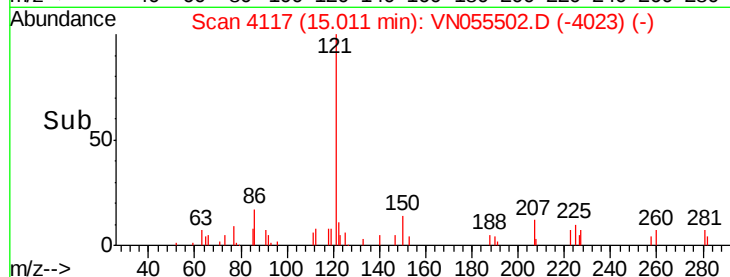
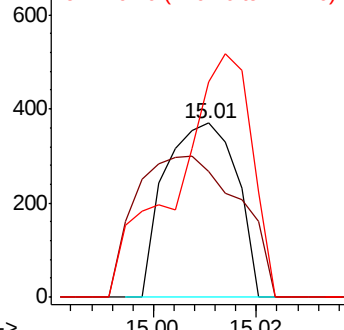
227 146.9 32.0 96.0#



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: 7.815 ug/l

RT: 15.13 min Scan# 4154

Delta R.T. -0.00 min

Lab File: VN055502.D

Acq: 9 May 2019 17:19

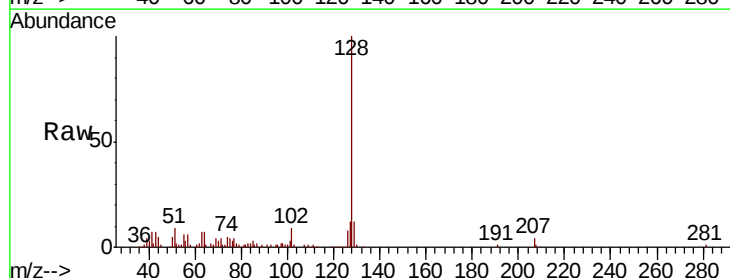
Tgt Ion:128 Resp: 96397

Ion Ratio Lower Upper

128 100

127 13.2 10.0 15.0

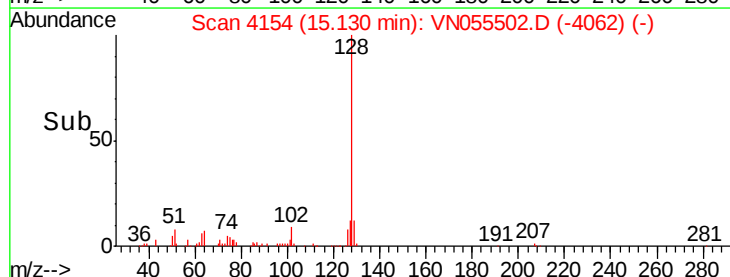
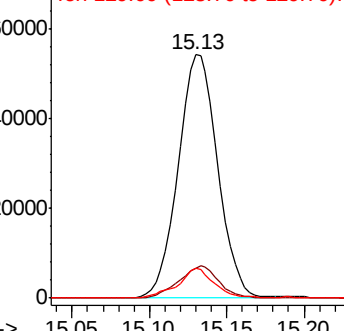
129 11.4 8.8 13.2

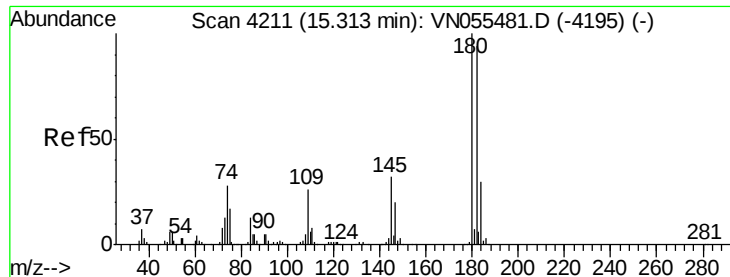


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

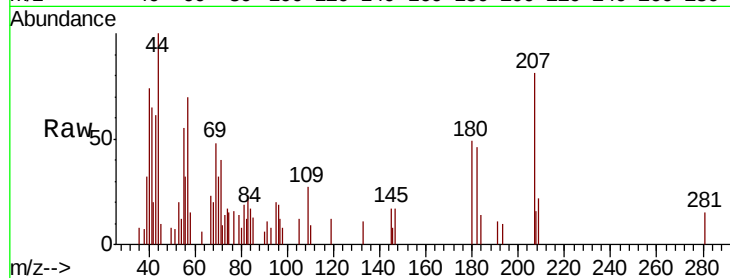




#96  
 1,2,3-Trichlorobenzene  
 Concen: 2.723 ug/l  
 RT: 15.32 min Scan# 4212  
 Delta R.T. 0.00 min  
 Lab File: VN055502.D  
 Acq: 9 May 2019 17:19

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 COMP-1

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 95.9  | 47.1  | 141.3 |
| 145     | 36.6  | 15.8  | 47.4  |



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

