

Data Path : W:\HPCHEM1\MSVOA\_N\DATA\VN091715\  
 Data File : VN027245.D  
 Acq On : 17 Sep 2015 10:33  
 Operator : MD\FY  
 Sample : VN0917WBL02  
 Misc : 5.00mL/MSVOA\_N/WATER  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0917WBL02

Quant Time: Sep 18 01:09:56 2015  
 Quant Method : W:\HPCHEM1\MSVOA\_N\METHODS\82N091515W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Sep 15 21:12:09 2015  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.75  | 168  | 773644   | 50.00 | ug/l  | 0.00     |
| 35) 1,4-Difluorobenzene    | 8.68  | 114  | 1392504  | 50.00 | ug/l  | 0.00     |
| 64) Chlorobenzene-d5       | 11.52 | 117  | 1149409  | 50.00 | ug/l  | 0.00     |
| 73) 1,4-Dichlorobenzene-d4 | 13.47 | 152  | 390108   | 50.00 | ug/l  | 0.00     |

|                             |        |     |          |       |         |      |
|-----------------------------|--------|-----|----------|-------|---------|------|
| System Monitoring Compounds |        |     |          |       |         |      |
| 34) 1,2-Dichloroethane-d4   | 8.12   | 65  | 765883   | 48.32 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 96.64%  |      |
| 36) Dibromofluoromethane    | 7.68   | 113 | 501163   | 51.92 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 103.84% |      |
| 51) Toluene-d8              | 10.19  | 98  | 2024169  | 53.56 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 107.12% |      |
| 63) 4-Bromofluorobenzene    | 12.52  | 95  | 657786   | 49.04 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 98.08%  |      |

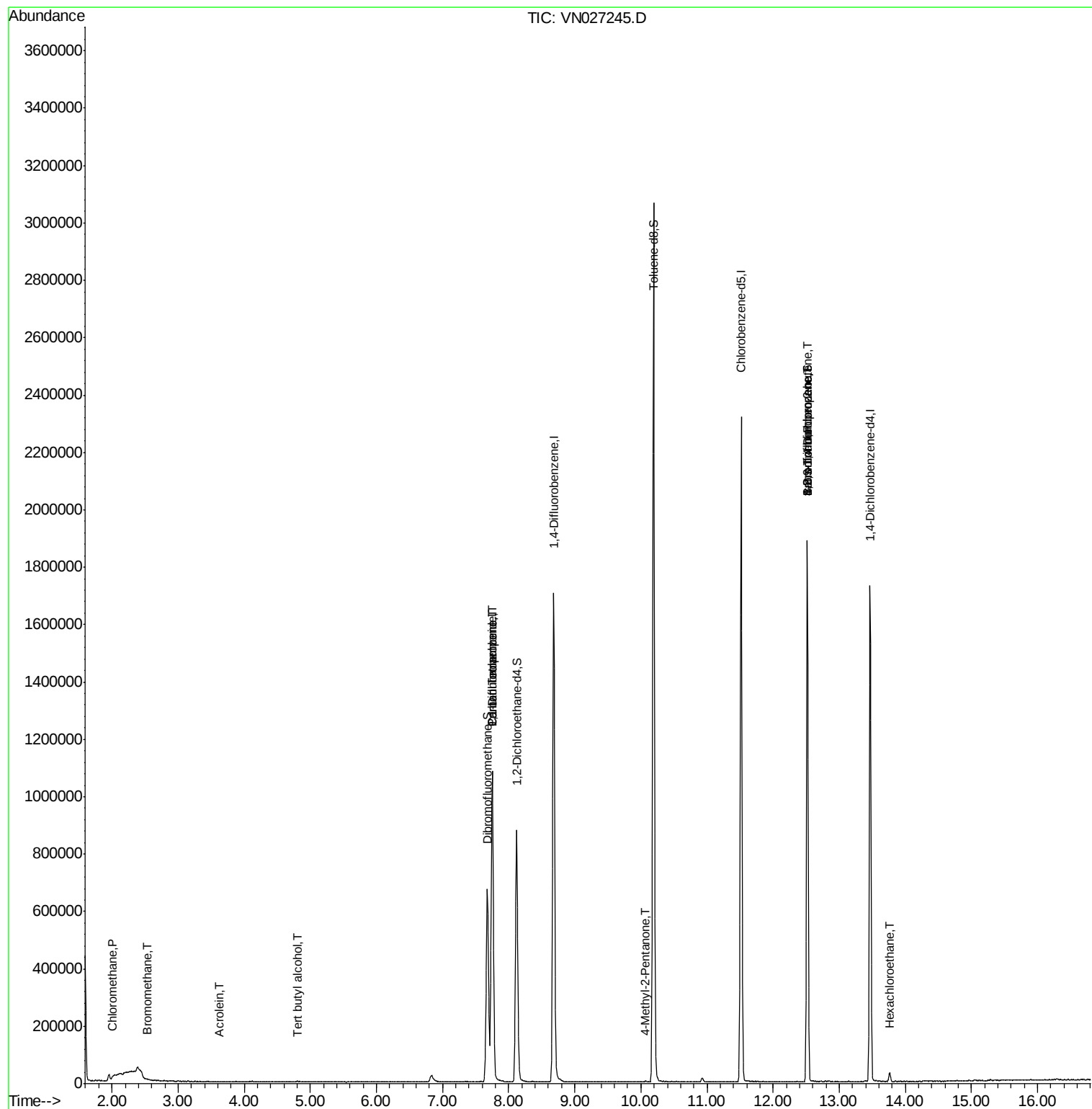
| Target Compounds               | R.T.  | QIon | Response | Conc  | Units | Qvalue |
|--------------------------------|-------|------|----------|-------|-------|--------|
| 4) Chloromethane               | 2.00  | 50   | 1961     | 1.29  | ug/l  | 97     |
| 6) Bromomethane                | 2.55  | 94   | 819      | 1.75  | ug/l  | # 61   |
| 12) Tert butyl alcohol         | 4.79  | 59   | 506      | 0.33  | ug/l  | # 94   |
| 14) Acrolein                   | 3.63  | 56   | 623      | 0.34  | ug/l  | # 71   |
| 37) 1,1-Dichloropropene        | 7.75  | 75   | 80559    | 4.94  | ug/l  | # 46   |
| 38) Ethyl Acetate              | 7.02  | 43   | 80       | Below | Cal   | # 3    |
| 39) Carbon Tetrachloride       | 7.75  | 117  | 87883    | 5.73  | ug/l  | # 16   |
| 52) 4-Methyl-2-Pentanone       | 10.07 | 43   | 2862     | 0.21  | ug/l  | 92     |
| 72) Bromoform                  | 12.52 | 173  | 1849     | 0.29  | ug/l  | # 1    |
| 76) 1,1,2,2-Tetrachloroethane  | 12.55 | 83   | 82       | Below | Cal   | # 25   |
| 77) 1,2,3-Trichloropropane     | 12.52 | 75   | 375936   | 31.89 | ug/l  | # 1    |
| 82) trans-1,4-Dichloro-2-buten | 12.52 | 75   | 375936   | 78.32 | ug/l  | # 4    |
| 91) Hexachloroethane           | 13.76 | 117  | 1487     | 0.21  | ug/l  | # 15   |
| 93) 1,2-Dibromo-3-Chloropropan | 14.47 | 75   | 30       | Below | Cal   | # 9    |

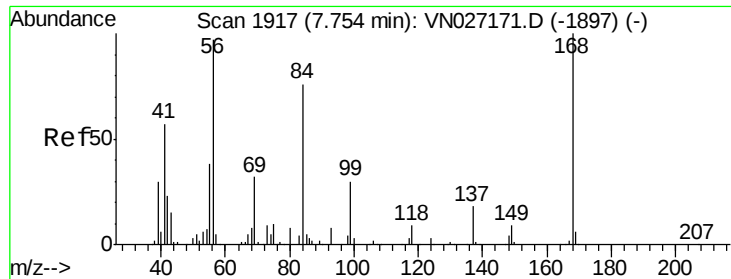
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : W:\HPCHEM1\MSVOA\_N\DATA\VN091715\  
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Misc : 5.00mL/MSVOA\_N/WATER  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0917WBL02

Quant Time: Sep 18 01:09:56 2015  
Quant Method : W:\HPCHEM1\MSVOA\_N\METHODS\82N091515W.M  
Quant Title : SW846 8260  
QLast Update : Tue Sep 15 21:12:09 2015  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.75 min Scan# 1917

Delta R.T. 0.00 min

Lab File: VN027245.D

Acq: 17 Sep 2015 10:33

Instrument :

MSVOA\_N

ClientSampleId :

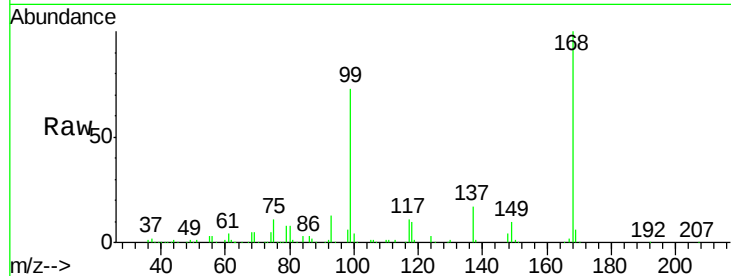
VN0917WBL02

Tgt Ion:168 Resp: 773644

Ion Ratio Lower Upper

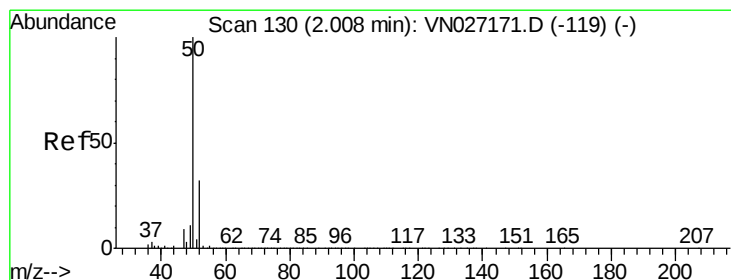
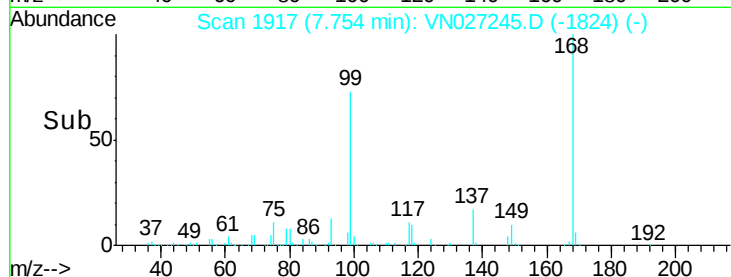
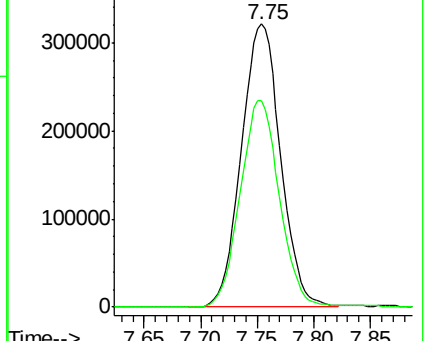
168 100

99 72.8 50.4 75.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#4

Chloromethane

Concen: 1.29 ug/l

RT: 2.00 min Scan# 129

Delta R.T. -0.00 min

Lab File: VN027245.D

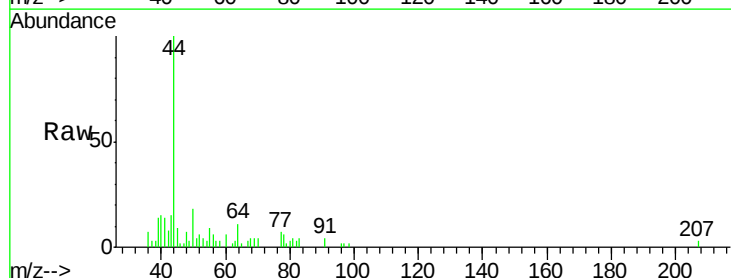
Acq: 17 Sep 2015 10:33

Tgt Ion: 50 Resp: 1961

Ion Ratio Lower Upper

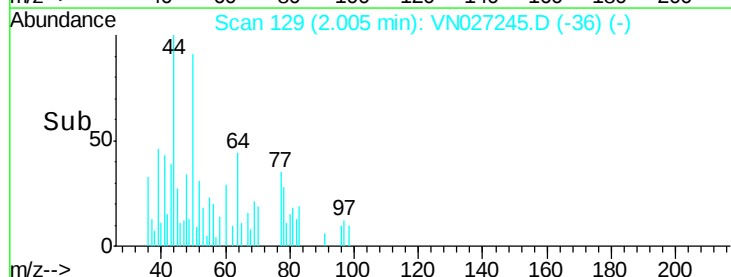
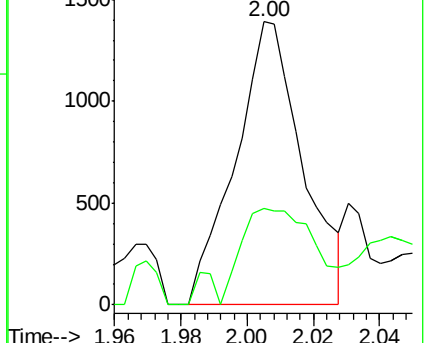
50 100

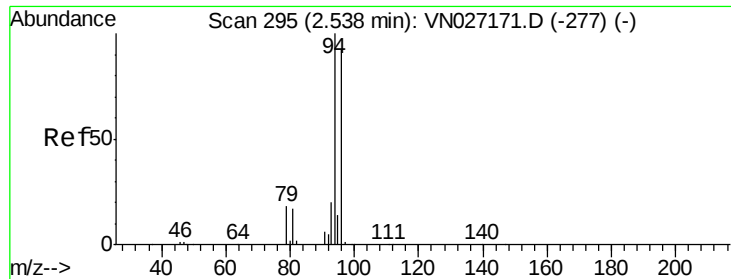
52 34.2 25.9 38.9



Abundance Ion 49.90 (49.60 to 50.60): VN

Ion 51.90 (51.60 to 52.60): VN





#6

Bromomethane

Concen: 1.75 ug/l

RT: 2.55 min Scan# 298

Delta R.T. 0.01 min

Lab File: VN027245.D

Acq: 17 Sep 2015 10:33

Instrument :

MSVOA\_N

ClientSampleId :

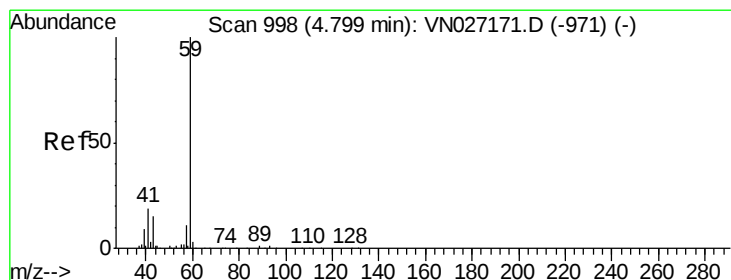
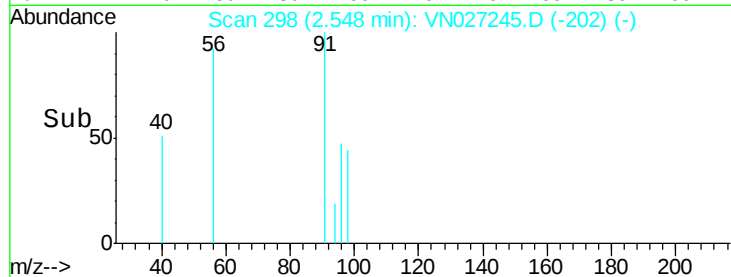
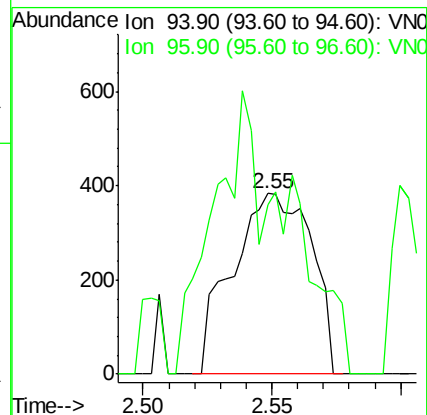
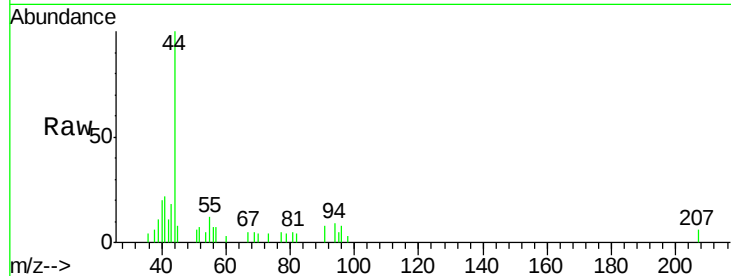
VN0917WBL02

Tgt Ion: 94 Resp: 819

Ion Ratio Lower Upper

94 100

96 55.1 73.4 110.2#



#12

Tert butyl alcohol

Concen: 0.33 ug/l

RT: 4.79 min Scan# 996

Delta R.T. -0.01 min

Lab File: VN027245.D

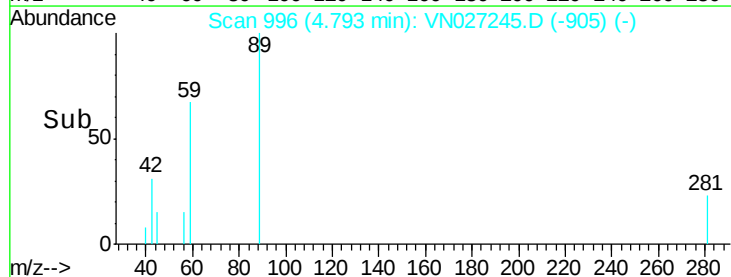
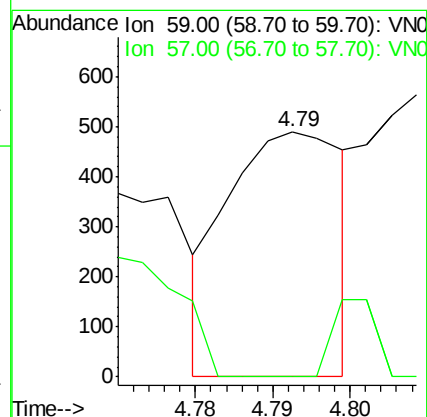
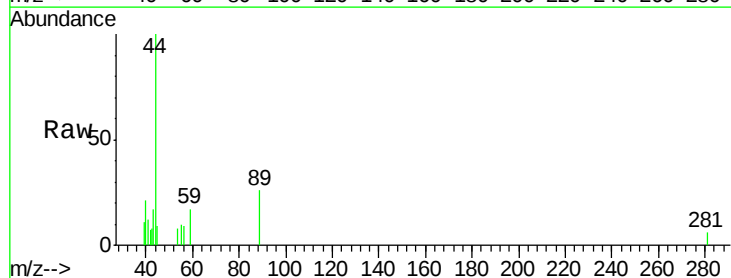
Acq: 17 Sep 2015 10:33

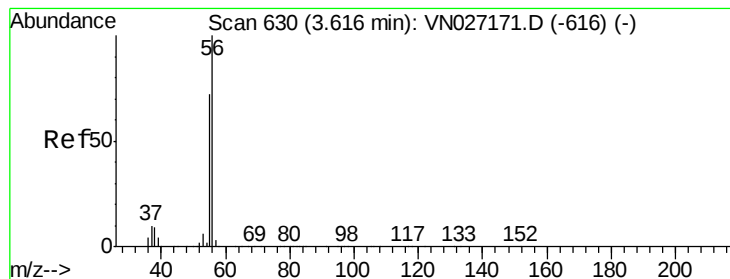
Tgt Ion: 59 Resp: 506

Ion Ratio Lower Upper

59 100

57 11.7 7.6 11.4#





#14

Acrolein

Concen: 0.34 ug/l

RT: 3.63 min Scan# 635

Delta R.T. 0.02 min

Lab File: VN027245.D

Acq: 17 Sep 2015 10:33

Instrument :

MSVOA\_N

ClientSampled :

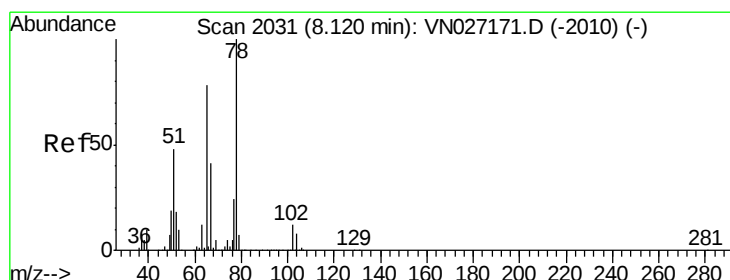
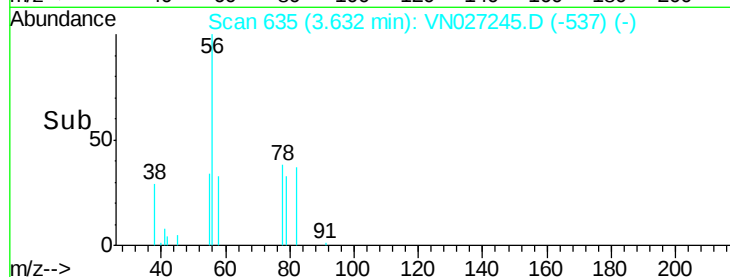
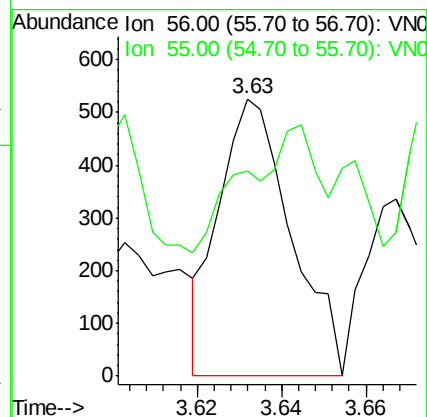
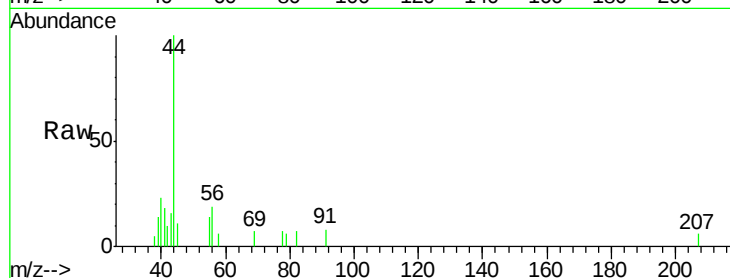
VN0917WBL02

Tgt Ion: 56 Resp: 623

Ion Ratio Lower Upper

56 100

55 45.9 55.7 83.5#



#34

1,2-Dichloroethane-d4

Concen: 48.32 ug/l

RT: 8.12 min Scan# 2031

Delta R.T. 0.00 min

Lab File: VN027245.D

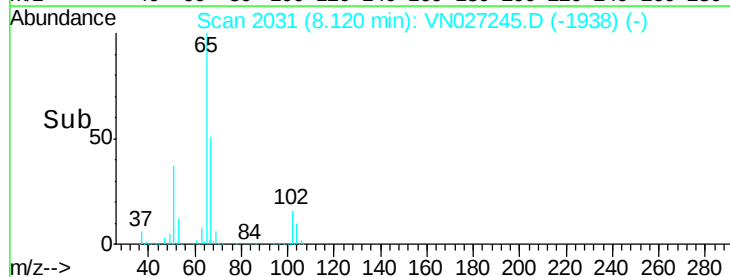
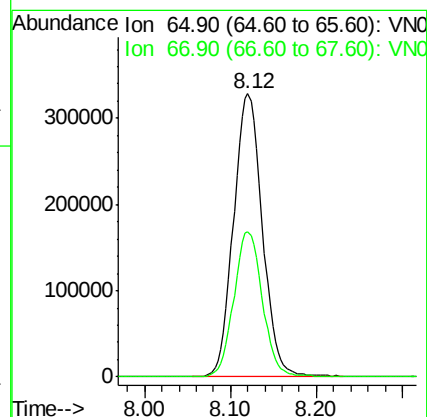
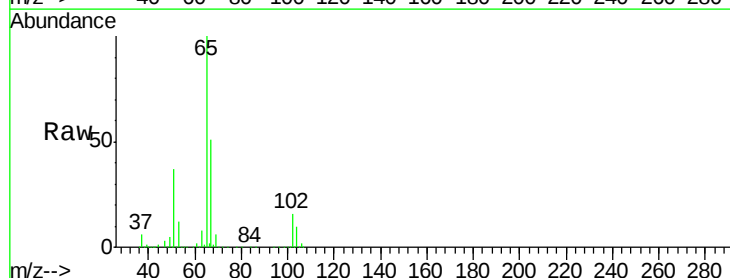
Acq: 17 Sep 2015 10:33

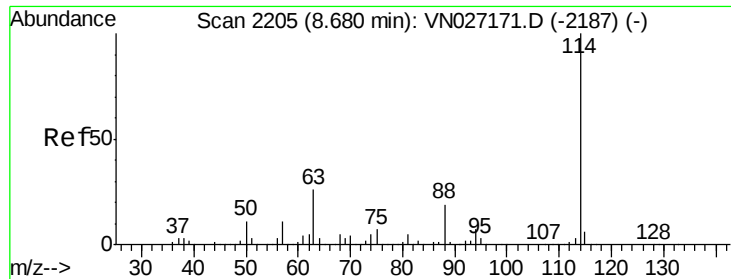
Tgt Ion: 65 Resp: 765883

Ion Ratio Lower Upper

65 100

67 50.5 0.0 110.6

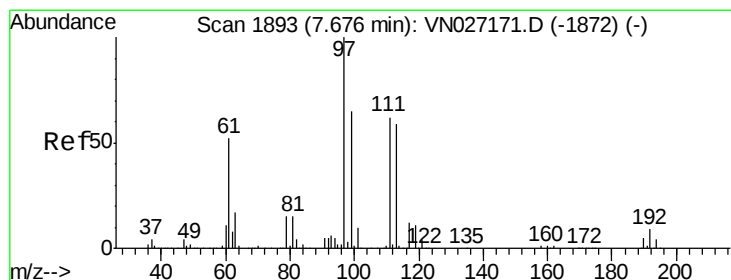
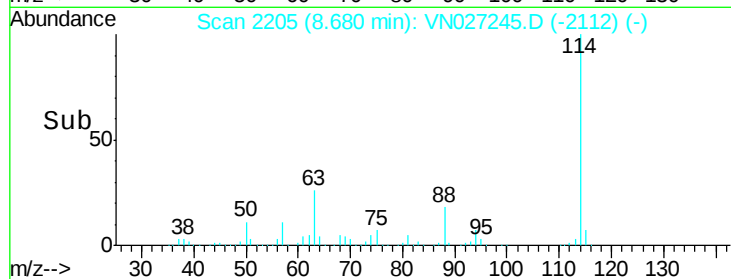
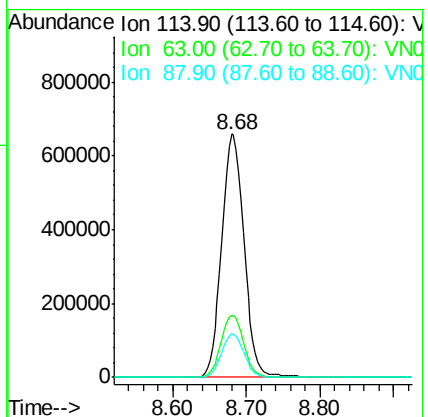
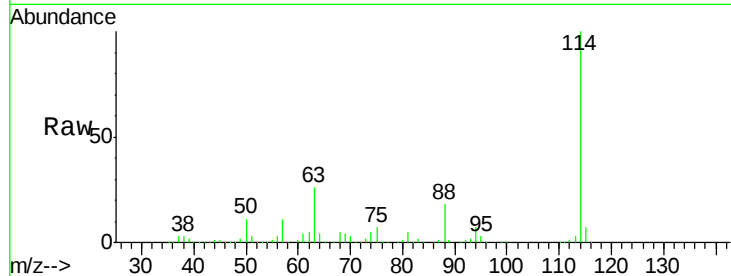




#35  
 1,4-Difluorobenzene  
 Concen: 50.00 ug/l  
 RT: 8.68 min Scan# 2205  
 Delta R.T. 0.00 min  
 Lab File: VN027245.D  
 Acq: 17 Sep 2015 10:33

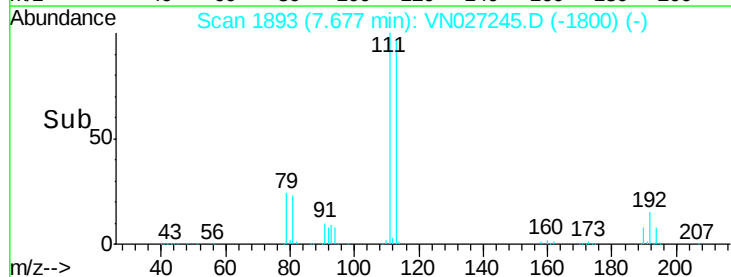
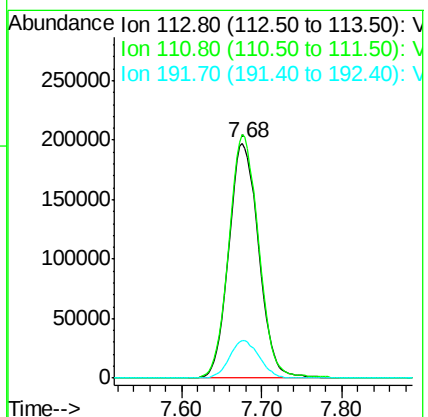
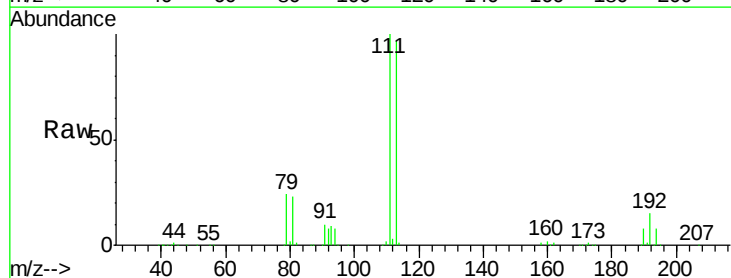
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0917WBL02

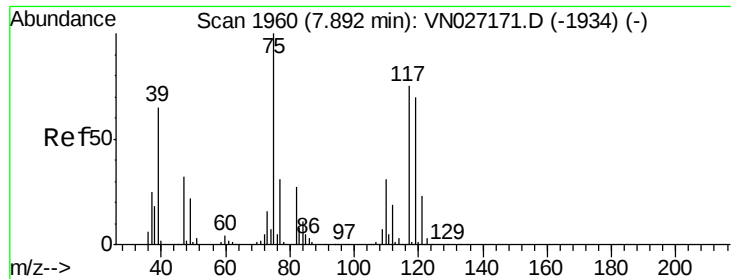
Tgt Ion:114 Resp: 1392504  
 Ion Ratio Lower Upper  
 114 100  
 63 25.6 0.0 48.8  
 88 17.9 0.0 32.2



#36  
 Dibromofluoromethane  
 Concen: 51.92 ug/l  
 RT: 7.68 min Scan# 1893  
 Delta R.T. 0.00 min  
 Lab File: VN027245.D  
 Acq: 17 Sep 2015 10:33

Tgt Ion:113 Resp: 501163  
 Ion Ratio Lower Upper  
 113 100  
 111 103.0 83.0 124.4  
 192 16.0 14.1 21.1

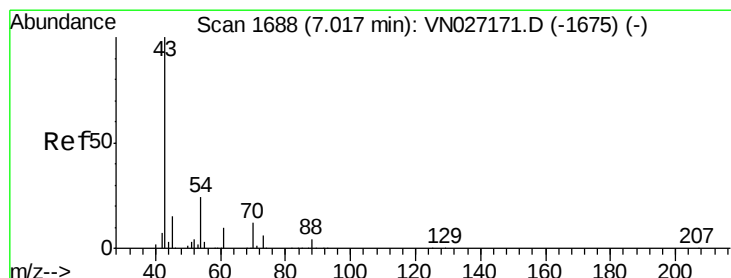
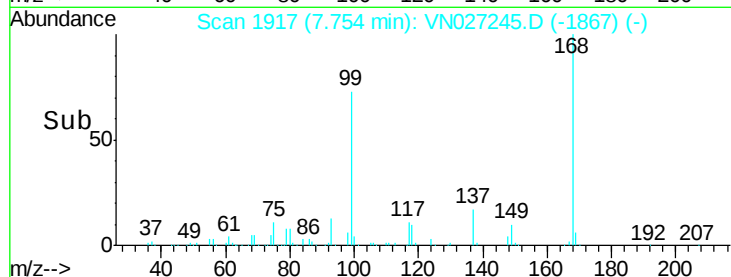
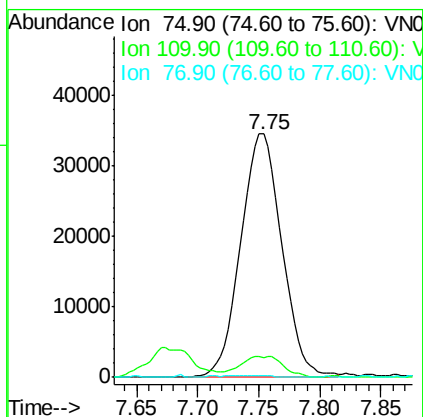
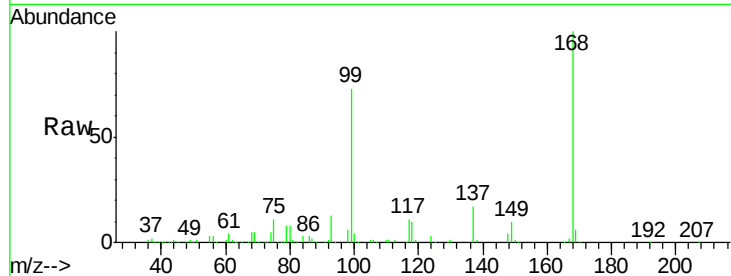




#37  
 1,1-Dichloropropene  
 Concen: 4.94 ug/l  
 RT: 7.75 min Scan# 1917  
 Delta R.T. -0.14 min  
 Lab File: VN027245.D  
 Acq: 17 Sep 2015 10:33

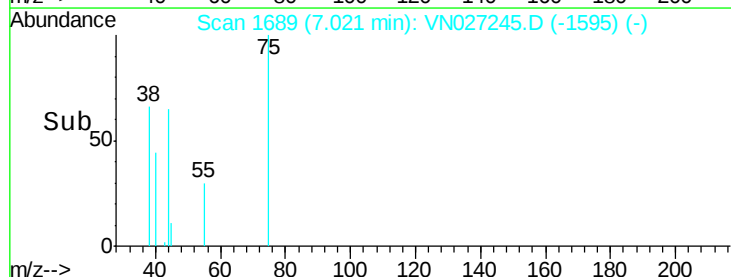
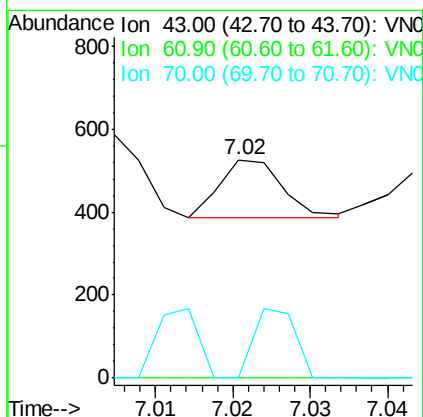
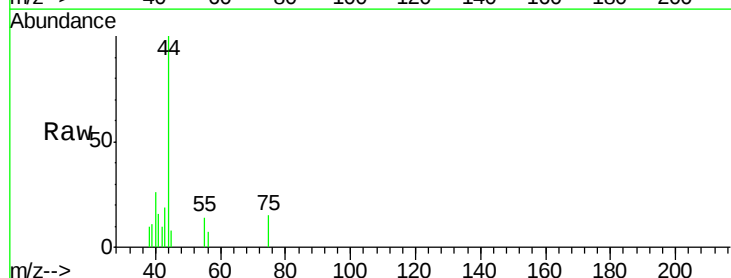
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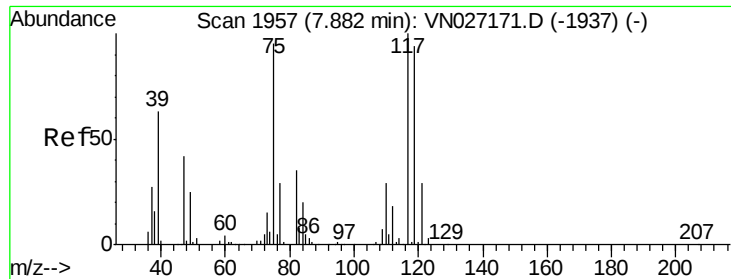
Tgt Ion: 75 Resp: 80559  
 Ion Ratio Lower Upper  
 75 100  
 110 3.2 15.9 47.7#  
 77 0.3 24.9 37.3#



#38  
 Ethyl Acetate  
 Concen: Below Cal  
 RT: 7.02 min Scan# 1689  
 Delta R.T. 0.00 min  
 Lab File: VN027245.D  
 Acq: 17 Sep 2015 10:33

Tgt Ion: 43 Resp: 80  
 Ion Ratio Lower Upper  
 43 100  
 61 0.0 10.2 15.4#  
 70 77.5 7.4 11.0#

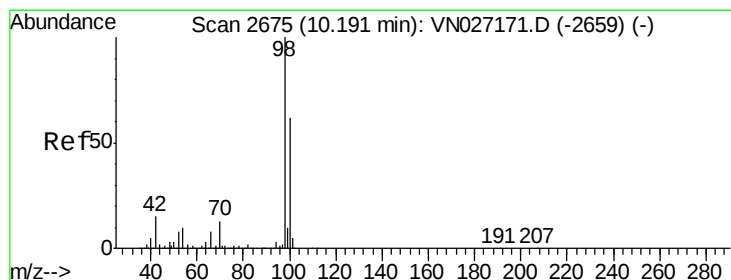
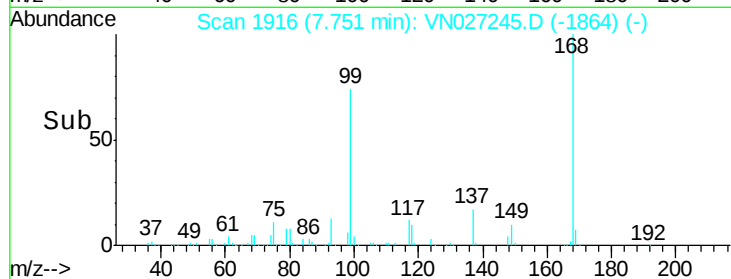
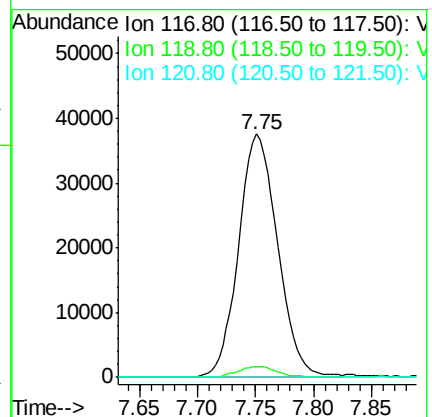
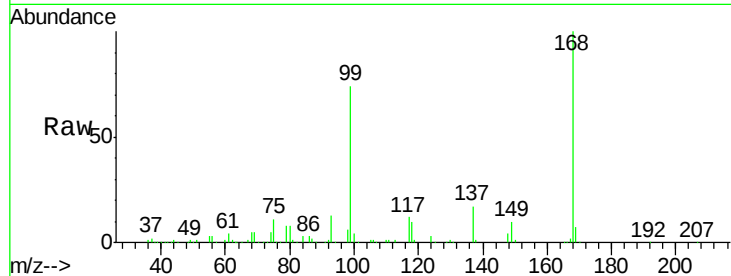




#39  
Carbon Tetrachloride  
Concen: 5.73 ug/l  
RT: 7.75 min Scan# 1916  
Delta R.T. -0.13 min  
Lab File: VN027245.D  
Acq: 17 Sep 2015 10:33

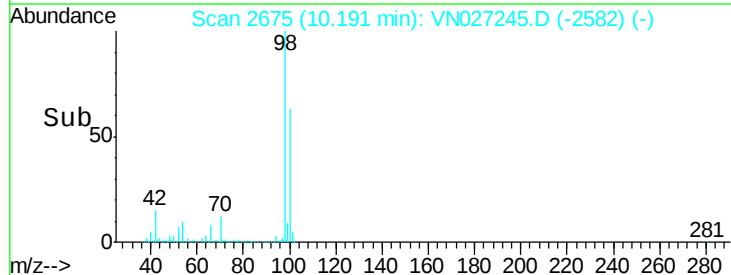
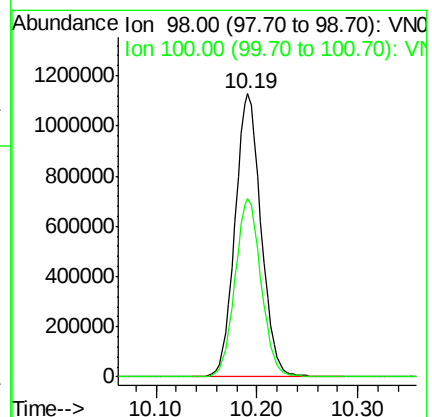
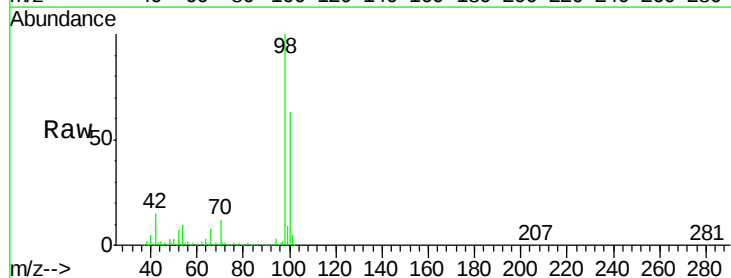
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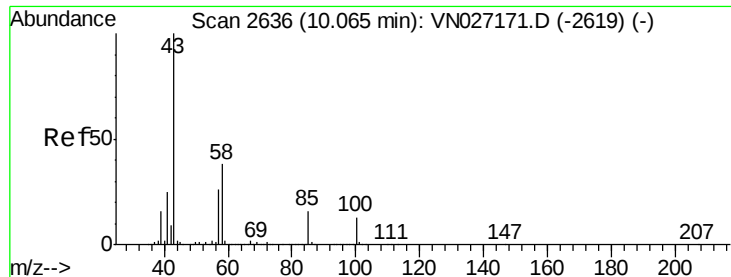
Tgt Ion:117 Resp: 87883  
Ion Ratio Lower Upper  
117 100  
119 4.2 75.3 112.9#  
121 0.0 23.8 35.8#



#51  
Toluene-d8  
Concen: 53.56 ug/l  
RT: 10.19 min Scan# 2675  
Delta R.T. 0.00 min  
Lab File: VN027245.D  
Acq: 17 Sep 2015 10:33

Tgt Ion: 98 Resp: 2024169  
Ion Ratio Lower Upper  
98 100  
100 63.2 50.5 75.7





#52

4-Methyl-2-Pentanone

Concen: 0.21 ug/l

RT: 10.07 min Scan# 2637

Delta R.T. 0.00 min

Lab File: VN027245.D

Acq: 17 Sep 2015 10:33

Instrument :

MSVOA\_N

ClientSampled :

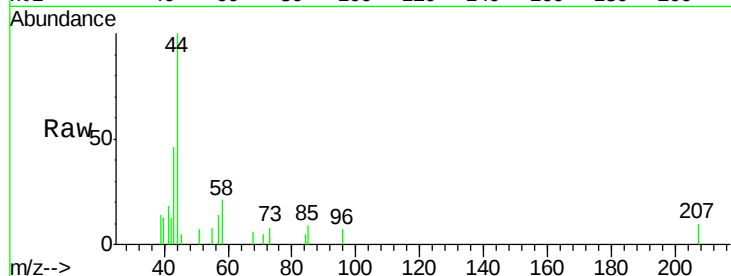
VN0917WBL02

Tgt Ion: 43 Resp: 2862

Ion Ratio Lower Upper

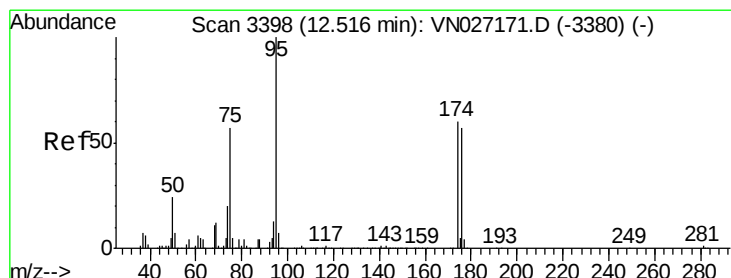
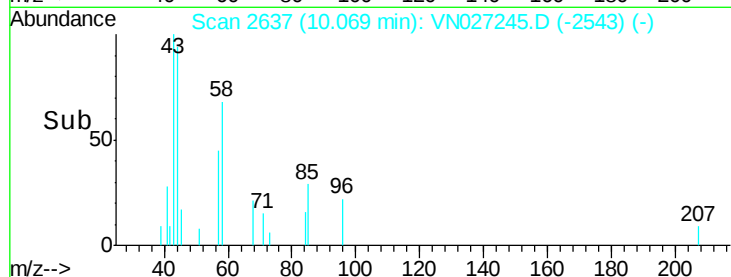
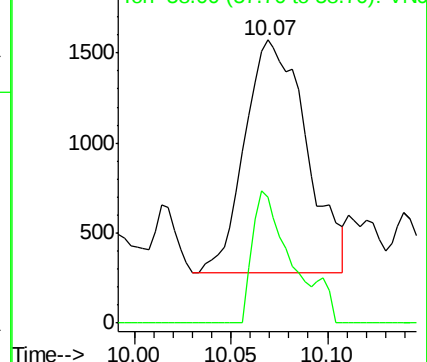
43 100

58 32.5 29.8 44.8



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#63

4-Bromofluorobenzene

Concen: 49.04 ug/l

RT: 12.52 min Scan# 3398

Delta R.T. 0.00 min

Lab File: VN027245.D

Acq: 17 Sep 2015 10:33

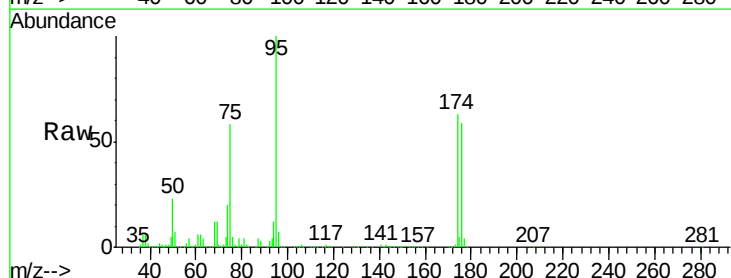
Tgt Ion: 95 Resp: 657786

Ion Ratio Lower Upper

95 100

174 63.2 0.0 137.0

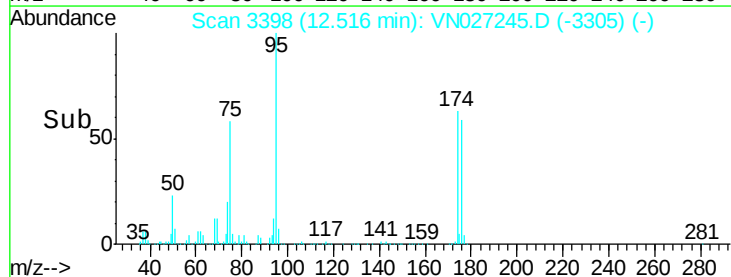
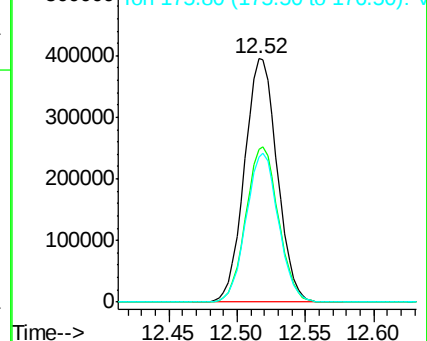
176 60.5 0.0 130.8

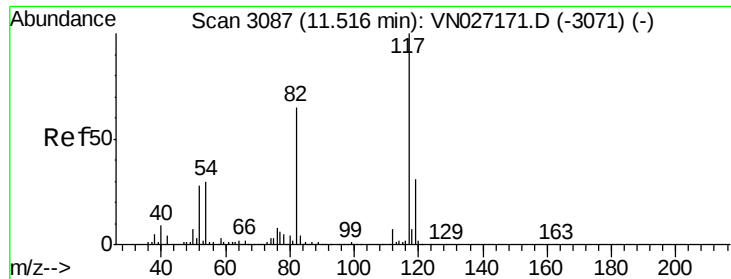


Abundance Ion 94.90 (94.60 to 95.60): VN0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

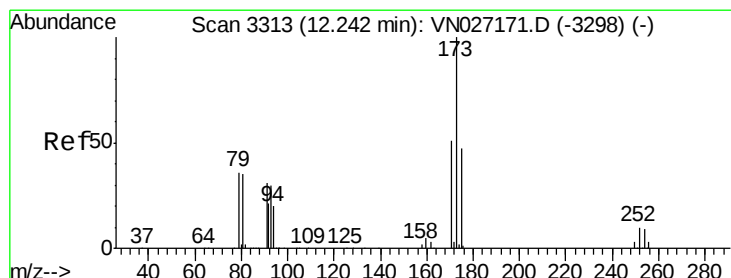
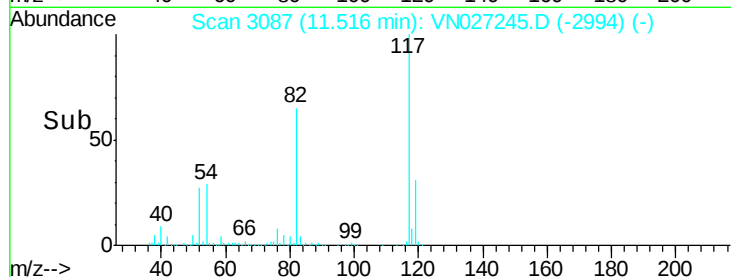
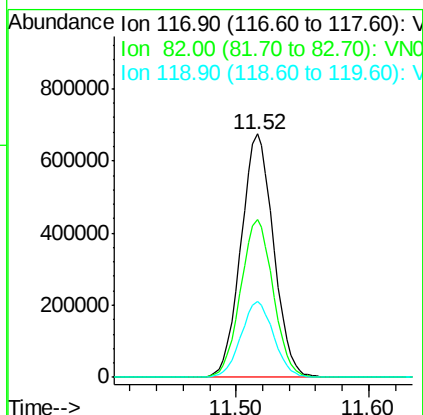
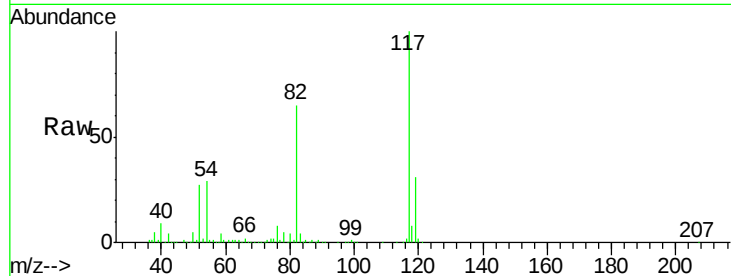




#64  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 11.52 min Scan# 3087  
Delta R.T. 0.00 min  
Lab File: VN027245.D  
Acq: 17 Sep 2015 10:33

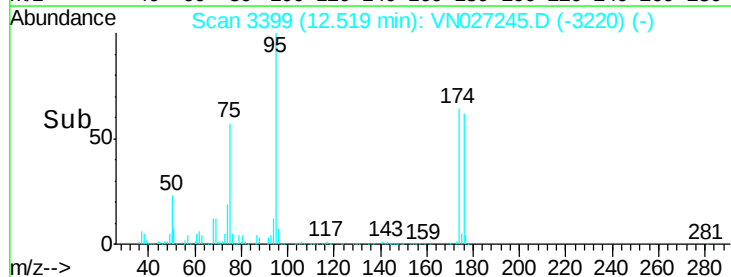
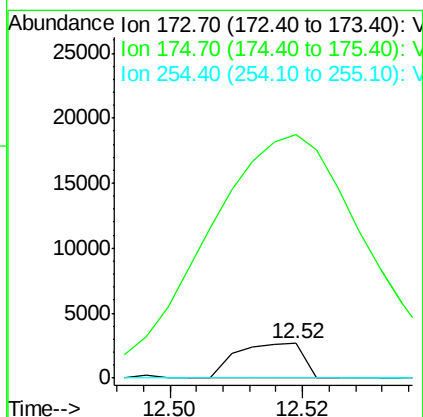
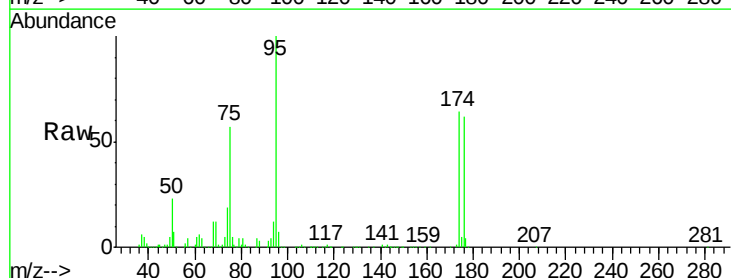
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0917WBL02

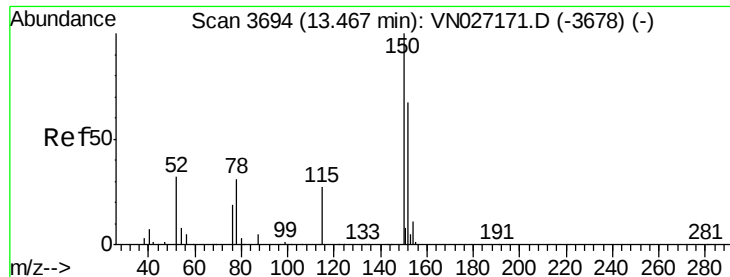
Tgt Ion:117 Resp: 1149409  
Ion Ratio Lower Upper  
117 100  
82 64.6 49.6 74.4  
119 31.0 24.6 36.8



#72  
Bromoform  
Concen: 0.29 ug/l  
RT: 12.52 min Scan# 3399  
Delta R.T. 0.28 min  
Lab File: VN027245.D  
Acq: 17 Sep 2015 10:33

Tgt Ion:173 Resp: 1849  
Ion Ratio Lower Upper  
173 100  
175 1494.0 24.4 73.4#  
254 0.0 0.1 0.1#





#73

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.47 min Scan# 3695

Delta R.T. 0.00 min

Lab File: VN027245.D

Acq: 17 Sep 2015 10:33

Instrument :

MSVOA\_N

ClientSampleId :

VN0917WBL02

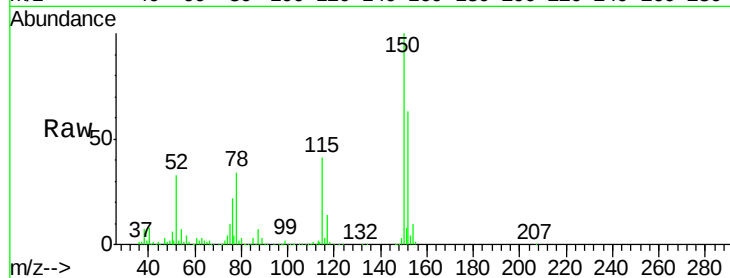
Tgt Ion:152 Resp: 390108

Ion Ratio Lower Upper

152 100

115 67.3 30.8 92.3

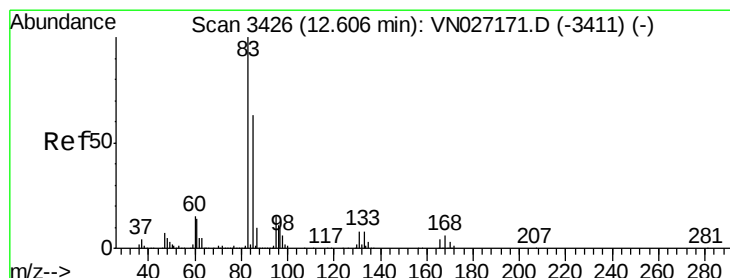
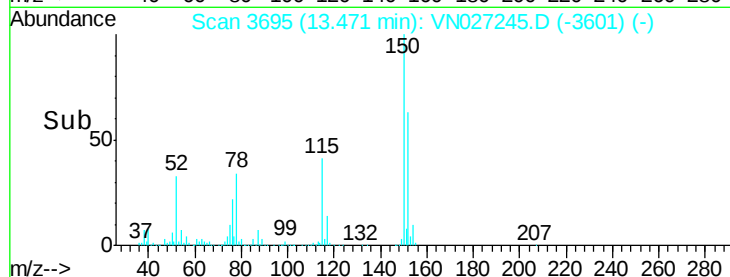
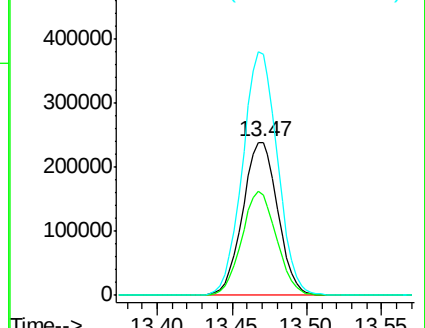
150 158.6 0.0 345.0



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

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.55 min Scan# 3408

Delta R.T. -0.06 min

Lab File: VN027245.D

Acq: 17 Sep 2015 10:33

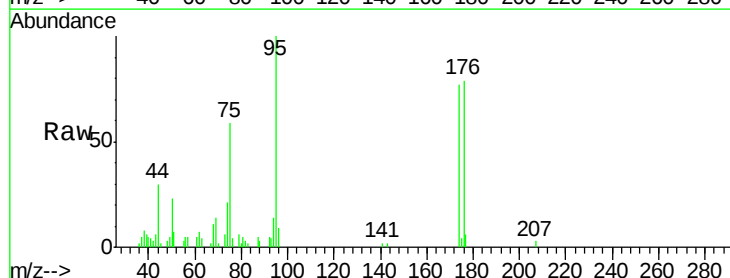
Tgt Ion: 83 Resp: 82

Ion Ratio Lower Upper

83 100

131 0.0 4.1 12.3#

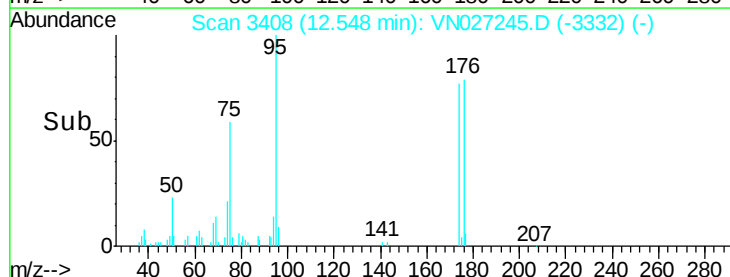
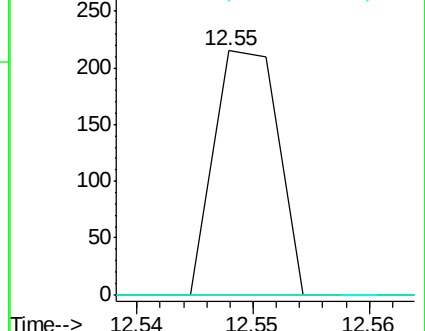
85 0.0 31.9 95.7#

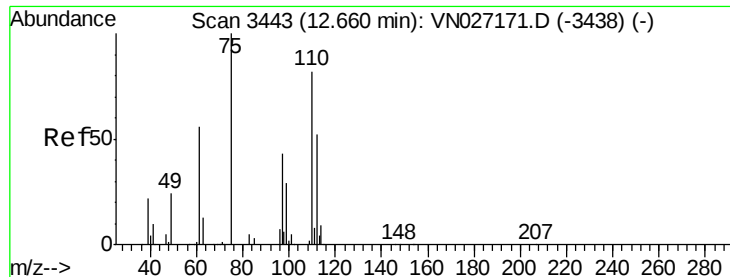


Abundance Ion 82.90 (82.60 to 83.60): V

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): V





#77

1,2,3-Trichloropropane

Concen: 31.89 ug/l

RT: 12.52 min Scan# 3398

Delta R.T. -0.14 min

Lab File: VN027245.D

Acq: 17 Sep 2015 10:33

Instrument :

MSVOA\_N

ClientSampleId :

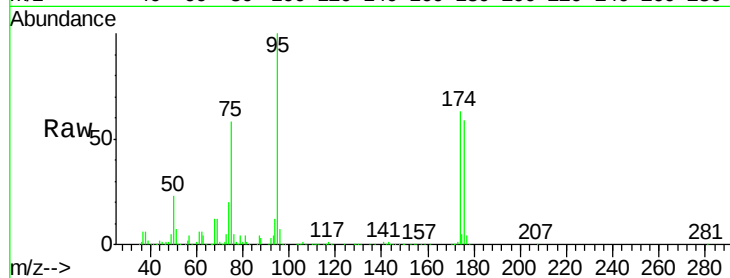
VN0917WBL02

Tgt Ion: 75 Resp: 375936

Ion Ratio Lower Upper

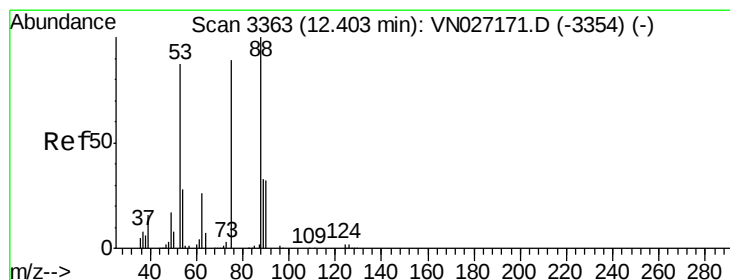
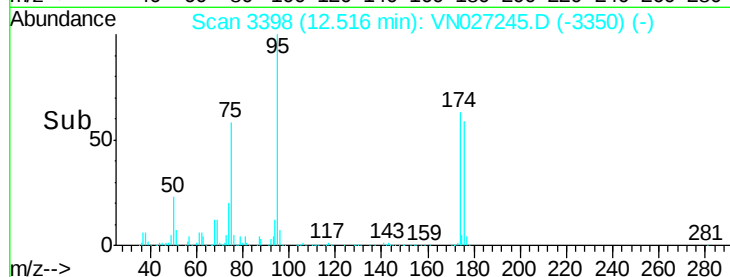
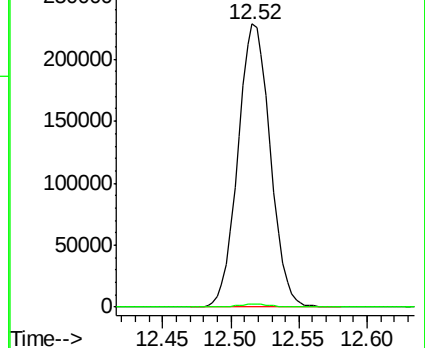
75 100

77 1.0 103.1 309.3#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0



#82

trans-1,4-Dichloro-2-butene

Concen: 78.32 ug/l

RT: 12.52 min Scan# 3398

Delta R.T. 0.11 min

Lab File: VN027245.D

Acq: 17 Sep 2015 10:33

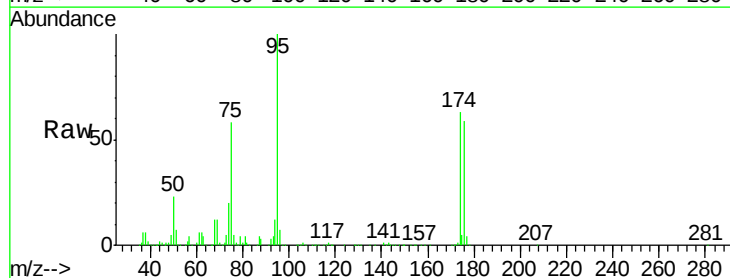
Tgt Ion: 75 Resp: 375936

Ion Ratio Lower Upper

75 100

53 0.0 92.9 139.3#

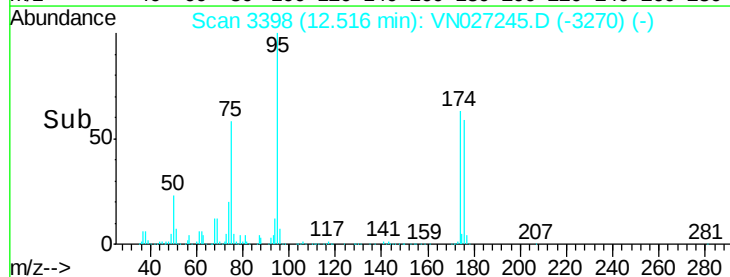
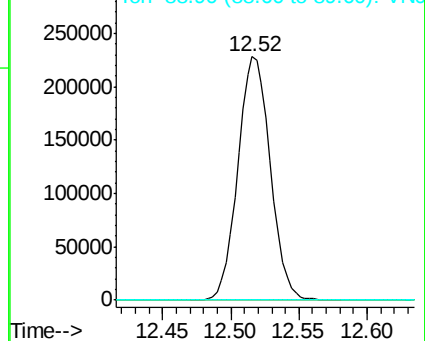
89 0.0 34.2 51.4#

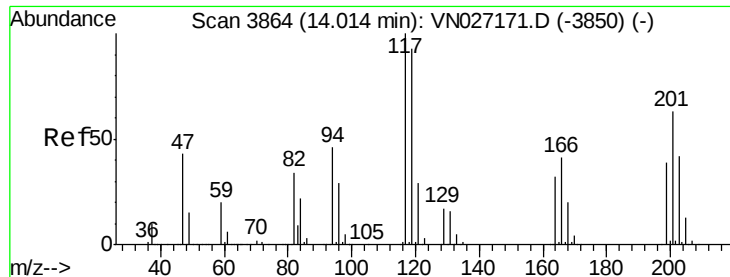


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0





#91

Hexachloroethane

Concen: 0.21 ug/l

RT: 13.76 min Scan# 3785

Delta R.T. -0.25 min

Lab File: VN027245.D

Acq: 17 Sep 2015 10:33

Instrument :

MSVOA\_N

ClientSampleId :

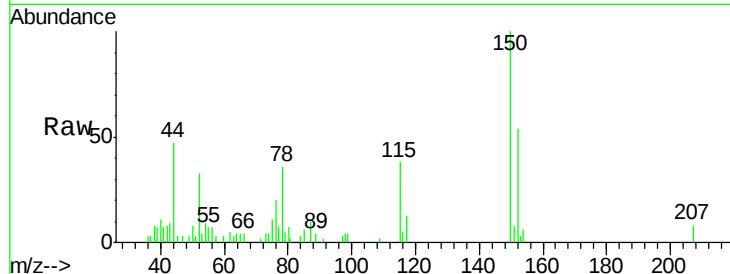
VN0917WBL02

Tgt Ion: 117 Resp: 1487

Ion Ratio Lower Upper

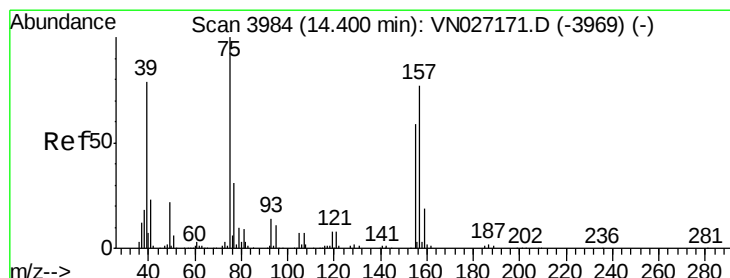
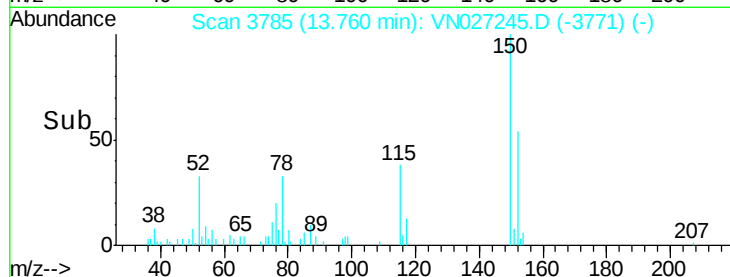
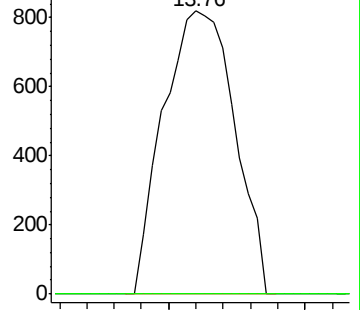
117 100

201 0.0 34.9 104.7#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V



#93

1,2-Dibromo-3-Chloropropane

Concen: Below Cal

RT: 14.47 min Scan# 4007

Delta R.T. 0.07 min

Lab File: VN027245.D

Acq: 17 Sep 2015 10:33

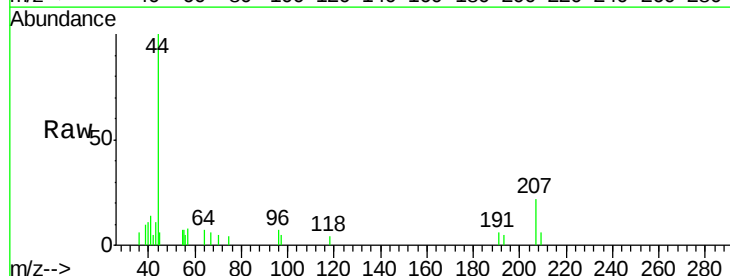
Tgt Ion: 75 Resp: 30

Ion Ratio Lower Upper

75 100

155 0.0 35.6 106.9#

157 0.0 44.6 133.8#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

