

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_N\DATA\VN082419\  
 Data File : VN057481.D  
 Acq On : 23 Aug 2019 19:11  
 Operator : JC/SP  
 Sample : K4472-25  
 Misc : 5.00mL/MSVOA\_N/WATER  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 T1-S3(0)

Quant Time: Aug 26 05:12:48 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N082219W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Aug 23 05:07:29 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.65  | 168  | 391097   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.57  | 114  | 675983   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.40 | 117  | 544557   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.35 | 152  | 128468   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|--------|--------|----------|
| 33) 1,2-Dichloroethane-d4   | 8.01  | 65   | 320120   | 46.53  | ug/l   | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |        |          |
|                             |       |      | Recovery | =      | 93.06% |          |
| 35) Dibromofluoromethane    | 7.57  | 113  | 214570   | 46.99  | ug/l   | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |        |          |
|                             |       |      | Recovery | =      | 93.98% |          |
| 50) Toluene-d8              | 10.08 | 98   | 849486   | 49.20  | ug/l   | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |        |          |
|                             |       |      | Recovery | =      | 98.40% |          |
| 62) 4-Bromofluorobenzene    | 12.40 | 95   | 224242   | 38.33  | ug/l   | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |        |          |
|                             |       |      | Recovery | =      | 76.66% |          |

| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 8) Diethyl Ether               | 3.38  | 74   | 748      | Below Cal |        | 93     |
| 9) 1,1,2-Trichlorotrifluoroet  | 3.73  | 101  | 74       | Below Cal | #      | 1      |
| 13) Acrolein                   | 3.58  | 56   | 310      | 0.412     | ug/l # | 13     |
| 16) Acetone                    | 3.79  | 43   | 15651    | 4.954     | ug/l   | 89     |
| 18) Methyl Acetate             | 4.31  | 43   | 8353     | 0.276     | ug/l # | 79     |
| 20) Methylene Chloride         | 4.52  | 84   | 8057     | 1.648     | ug/l   | 96     |
| 25) 2-Butanone                 | 6.84  | 43   | 1235     | 0.360     | ug/l # | 53     |
| 31) Cyclohexane                | 7.65  | 56   | 12914    | 1.336     | ug/l # | 12     |
| 36) 1,1-Dichloropropene        | 7.65  | 75   | 38516    | 5.576     | ug/l # | 50     |
| 38) Carbon Tetrachloride       | 7.65  | 117  | 44129    | 6.431     | ug/l # | 16     |
| 43) Isopropyl Acetate          | 8.16  | 43   | 99475    | 7.949     | ug/l   | 98     |
| 46) Dibromomethane             | 9.02  | 93   | 64       | Below Cal | #      | 10     |
| 48) Methyl methacrylate        | 9.18  | 41   | 5645     | 0.949     | ug/l # | 15     |
| 49) 1,4-Dioxane                | 9.27  | 88   | 208      | 2.703     | ug/l # | 1      |
| 51) 4-Methyl-2-Pentanone       | 9.98  | 43   | 9412     | 1.349     | ug/l # | 88     |
| 54) cis-1,3-Dichloropropene    | 9.90  | 75   | 38455    | 4.281     | ug/l # | 59     |
| 57) 1,3-Dichloropropane        | 10.76 | 76   | 5349     | 0.636     | ug/l # | 43     |
| 58) 2-Chloroethyl Vinyl ether  | 9.59  | 63   | 30       | 17.078    | ug/l # | 52     |
| 59) 2-Hexanone                 | 10.76 | 43   | 85965    | 17.970    | ug/l # | 56     |
| 71) Bromoform                  | 12.39 | 173  | 782      | 0.274     | ug/l # | 1      |
| 73) Isopropylbenzene           | 12.24 | 105  | 111      | Below Cal | #      | 50     |
| 74) N-amyl acetate             | 12.03 | 43   | 3945     | Below Cal | #      | 54     |
| 75) 1,1,2,2-Tetrachloroethane  | 12.50 | 83   | 68       | Below Cal | #      | 25     |
| 76) 1,2,3-Trichloropropane     | 12.40 | 75   | 129878   | 45.325    | ug/l # | 100    |
| 77) Bromobenzene               | 12.53 | 156  | 112      | Below Cal | #      | 40     |
| 78) n-propylbenzene            | 12.59 | 91   | 860      | Below Cal | #      | 62     |
| 79) 2-Chlorotoluene            | 12.67 | 91   | 445      | Below Cal | #      | 44     |
| 80) 1,3,5-Trimethylbenzene     | 12.73 | 105  | 1505     | Below Cal |        | 85     |
| 81) trans-1,4-Dichloro-2-buten | 12.40 | 75   | 129878   | 116.136   | ug/l # | 8      |
| 82) 4-Chlorotoluene            | 12.78 | 91   | 553      | Below Cal | #      | 70     |
| 83) tert-Butylbenzene          | 13.00 | 119  | 332      | Below Cal | #      | 22     |
| 85) sec-Butylbenzene           | 13.17 | 105  | 616      | Below Cal |        | 99     |
| 90) Hexachloroethane           | 13.99 | 117  | 68       | Below Cal | #      | 17     |
| 92) 1,2-Dibromo-3-Chloropropan | 14.14 | 75   | 31       | Below Cal | #      | 11     |

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ALS Vial : 9 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
T1-S3(0)

Quant Time: Aug 26 05:12:48 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N082219W.M  
Quant Title : SW846 8260  
QLast Update : Fri Aug 23 05:07:29 2019  
Response via : Initial Calibration

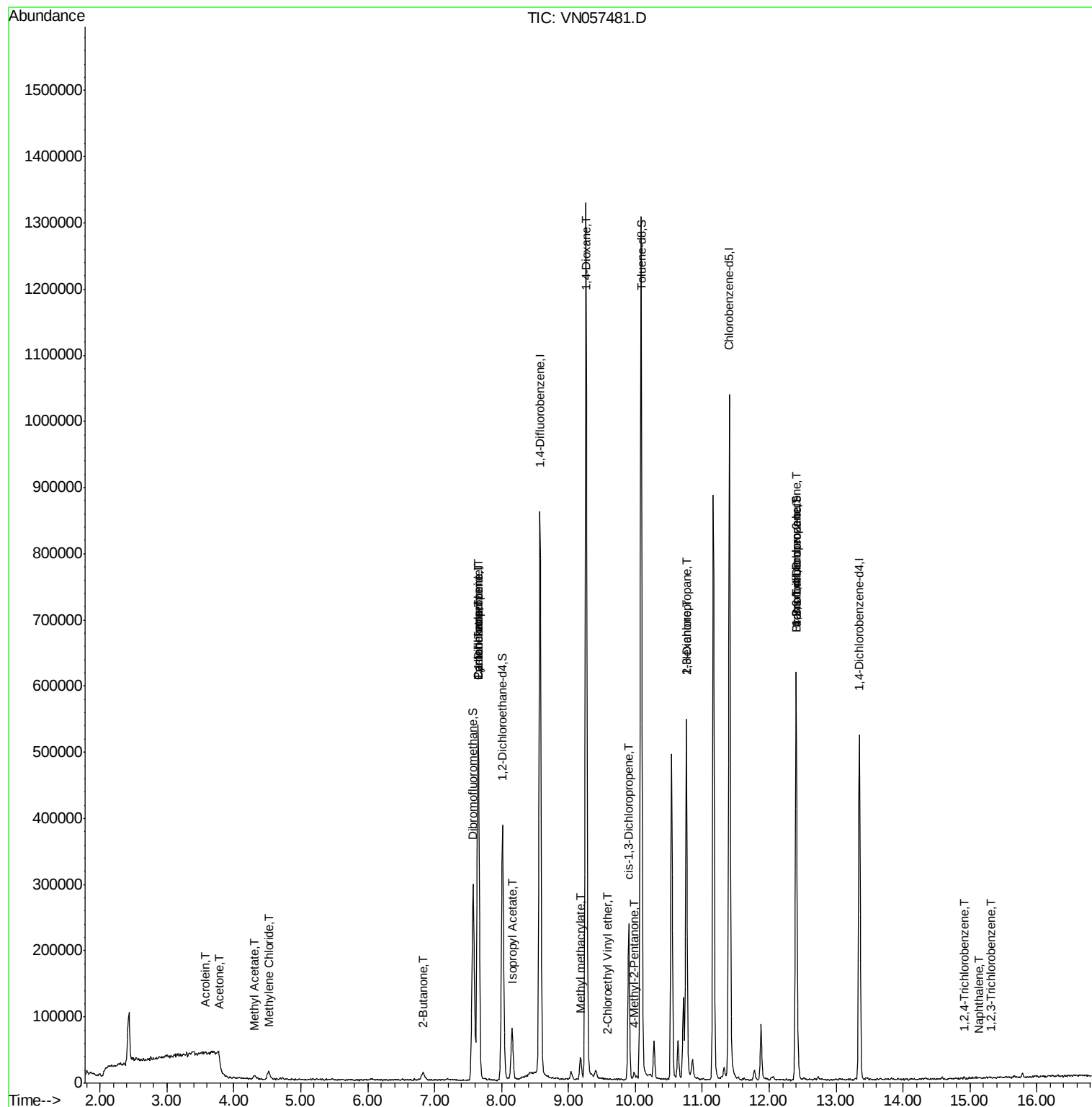
| Internal Standards         | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|----------------------------|-------|------|----------|-------|--------|----------|
| 93) 1,2,4-Trichlorobenzene | 14.91 | 180  | 492      | 5.646 | ug/l   | 80       |
| 95) Naphthalene            | 15.13 | 128  | 1311     | 4.574 | ug/l # | 92       |
| 96) 1,2,3-Trichlorobenzene | 15.30 | 180  | 522      | 5.408 | ug/l   | 68       |

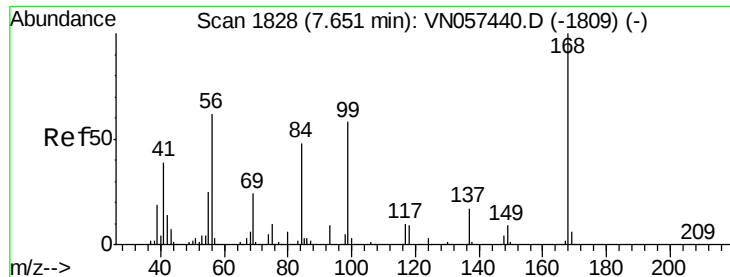
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_N\DATA\VN082419\  
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. -0.00 min

Lab File: VN057481.D

Acq: 23 Aug 2019 19:11

Instrument :

MSVOA\_N

ClientSampled :

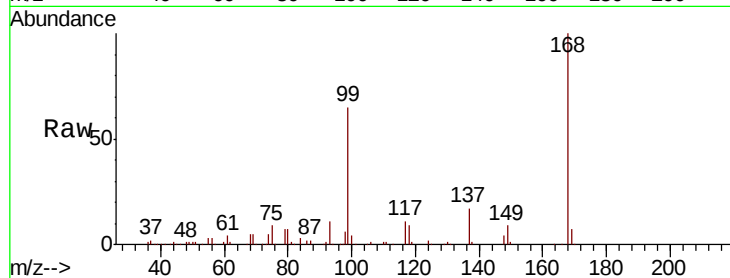
T1-S3(0)

Tgt Ion:168 Resp: 391097

Ion Ratio Lower Upper

168 100

99 65.2 50.6 76.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.65

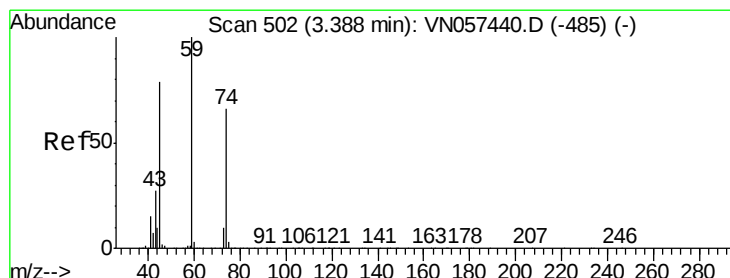
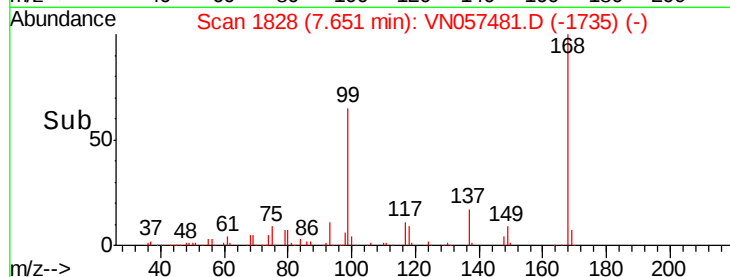
150000

100000

50000

0

Time-->



#8

Diethyl Ether

Concen: Below Cal

RT: 3.38 min Scan# 500

Delta R.T. -0.01 min

Lab File: VN057481.D

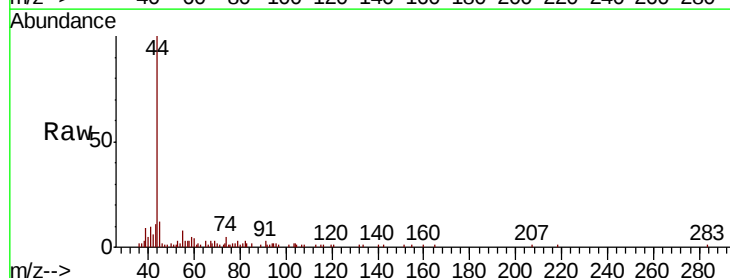
Acq: 23 Aug 2019 19:11

Tgt Ion: 74 Resp: 748

Ion Ratio Lower Upper

74 100

45 123.7 57.9 173.6



Abundance Ion 74.00 (73.70 to 74.70): VNO

Ion 45.00 (44.70 to 45.70): VNO

2500

2000

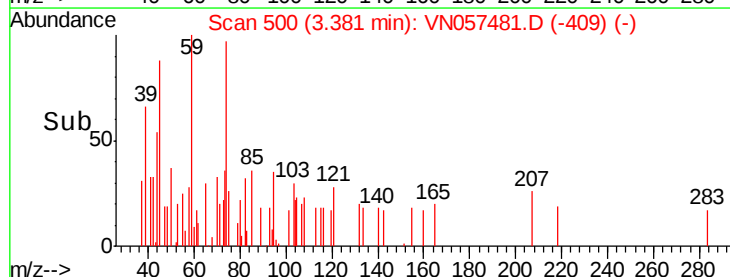
1500

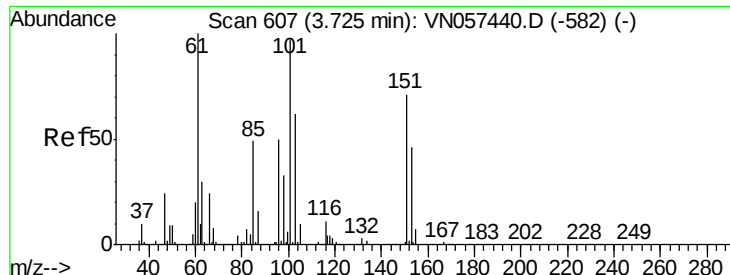
1000

500

0

Time-->





#9

1,1,2-Trichlorotrifluoroethane

Concen: Below Cal

RT: 3.73 min Scan# 607

Delta R.T. 0.00 min

Lab File: VN057481.D

Acq: 23 Aug 2019 19:11

Instrument :

MSVOA\_N

ClientSampleId :

T1-S3(0)

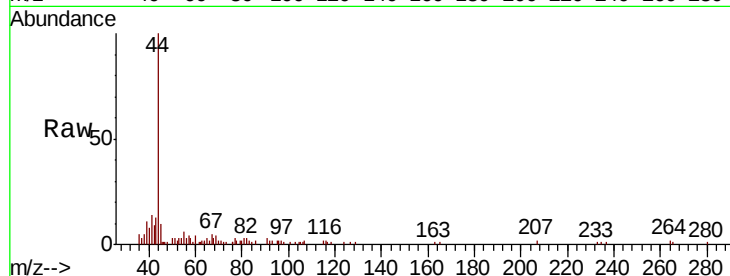
Tgt Ion:101 Resp: 74

Ion Ratio Lower Upper

101 100

85 137.8 40.0 60.0#

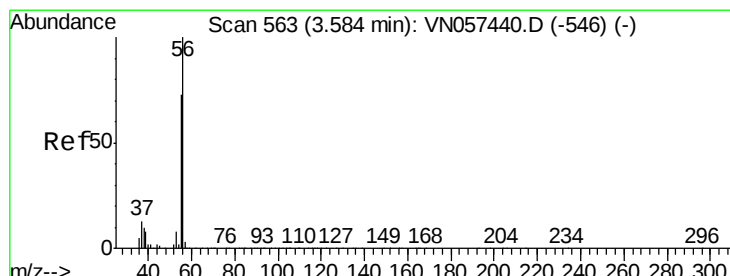
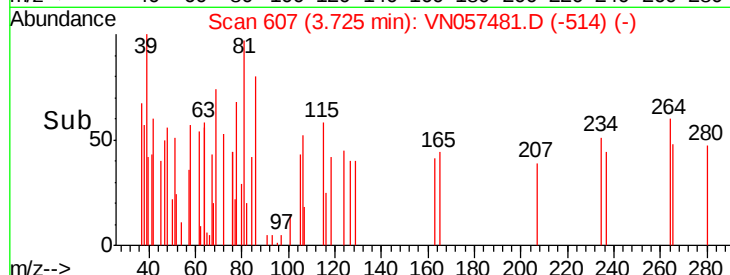
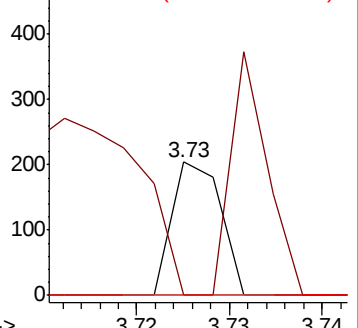
151 0.0 57.0 85.6#



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VN

Ion 150.80 (150.50 to 151.50): V



#13

Acrolein

Concen: 0.412 ug/l

RT: 3.58 min Scan# 563

Delta R.T. -0.00 min

Lab File: VN057481.D

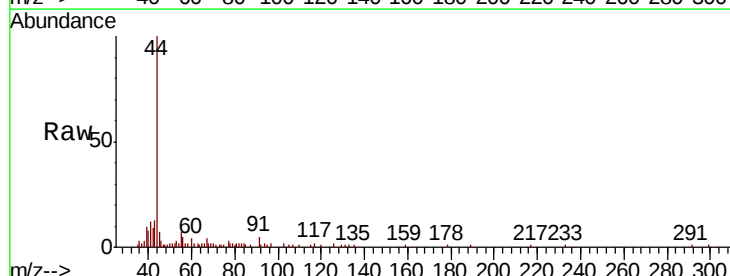
Acq: 23 Aug 2019 19:11

Tgt Ion: 56 Resp: 310

Ion Ratio Lower Upper

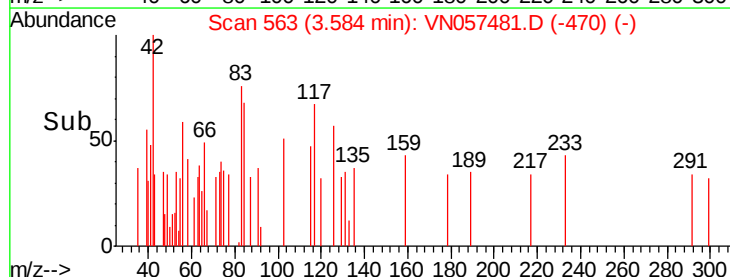
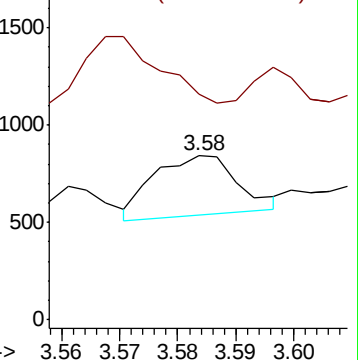
56 100

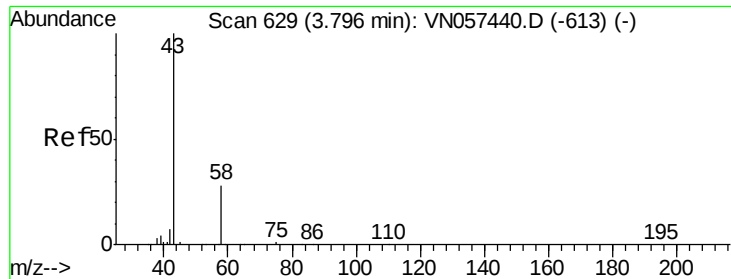
55 0.0 59.0 88.4#



Abundance Ion 56.00 (55.70 to 56.70): VN

Ion 55.00 (54.70 to 55.70): VN





#16

Acetone

Concen: 4.954 ug/l

RT: 3.79 min Scan# 626

Delta R.T. -0.01 min

Lab File: VN057481.D

Acq: 23 Aug 2019 19:11

Instrument :

MSVOA\_N

ClientSampleId :

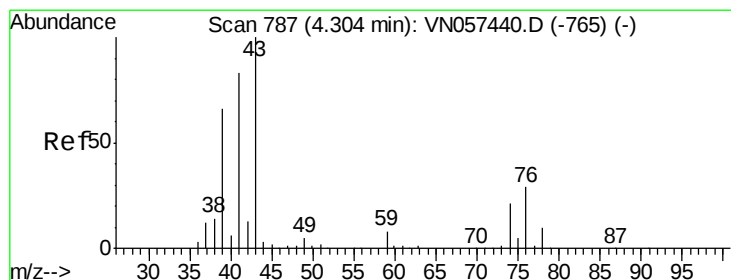
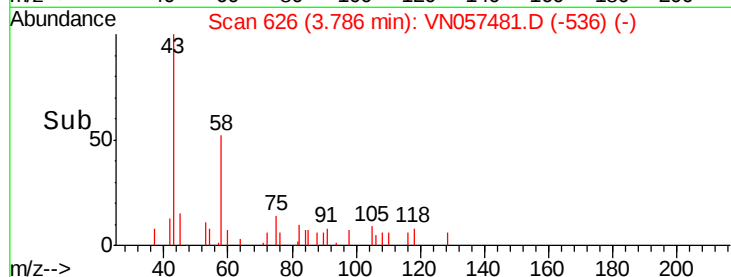
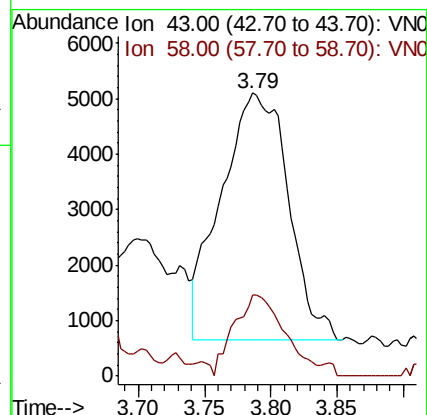
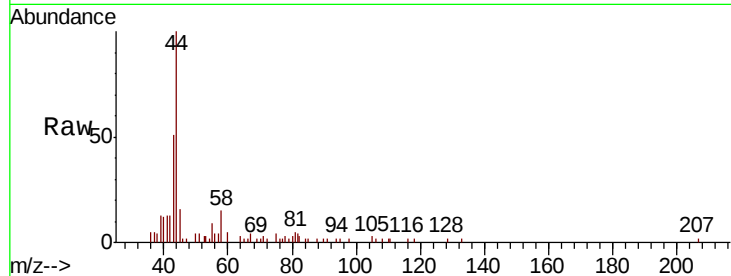
T1-S3(0)

Tgt Ion: 43 Resp: 15651

Ion Ratio Lower Upper

43 100

58 33.1 22.1 33.1



#18

Methyl Acetate

Concen: 0.276 ug/l

RT: 4.31 min Scan# 789

Delta R.T. 0.01 min

Lab File: VN057481.D

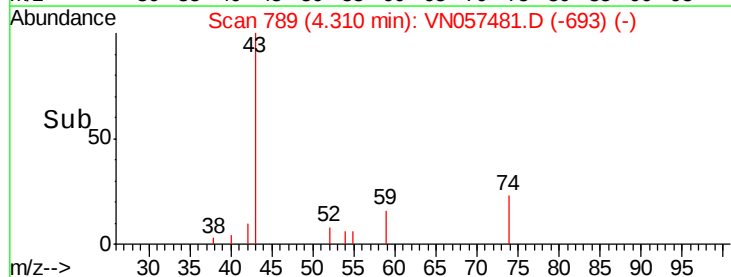
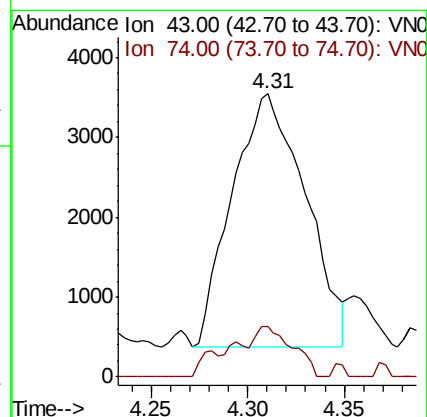
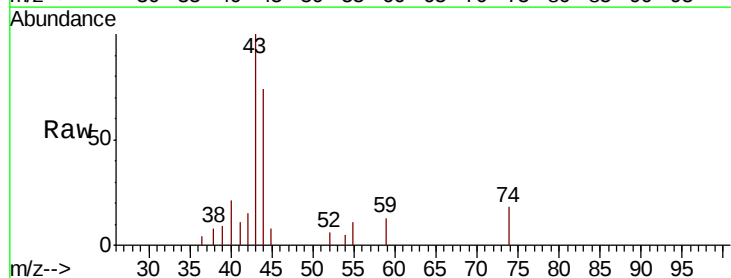
Acq: 23 Aug 2019 19:11

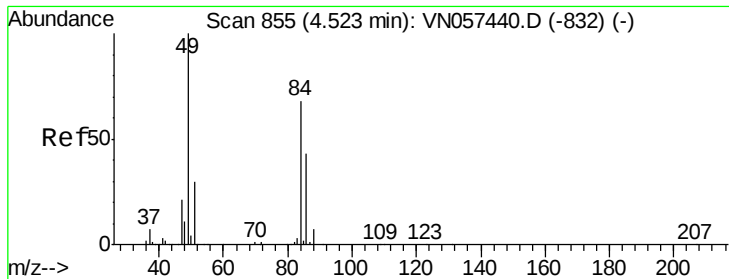
Tgt Ion: 43 Resp: 8353

Ion Ratio Lower Upper

43 100

74 10.3 15.9 23.9#

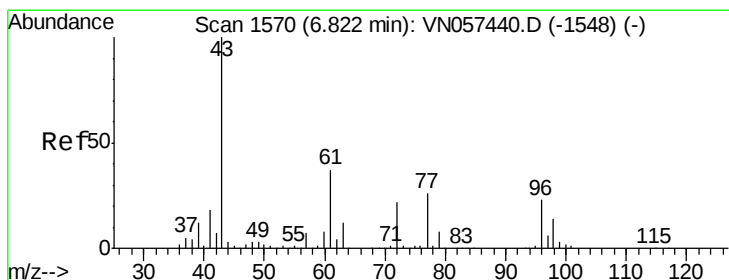
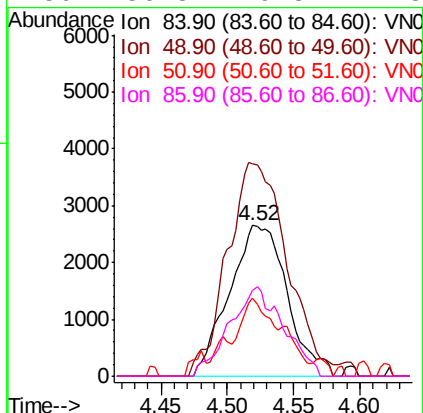
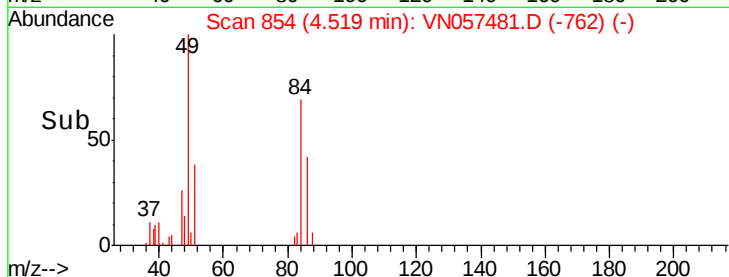
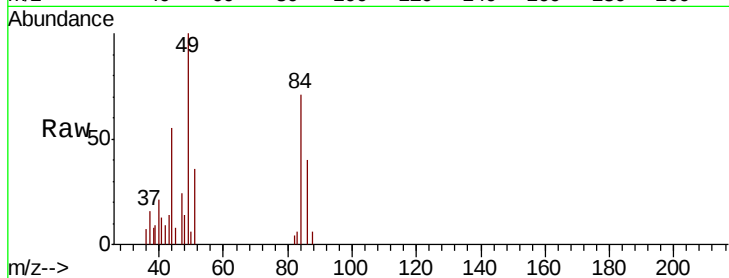




#20  
Methylene Chloride  
Concen: 1.648 ug/l  
RT: 4.52 min Scan# 854  
Delta R.T. -0.00 min  
Lab File: VN057481.D  
Acq: 23 Aug 2019 19:11

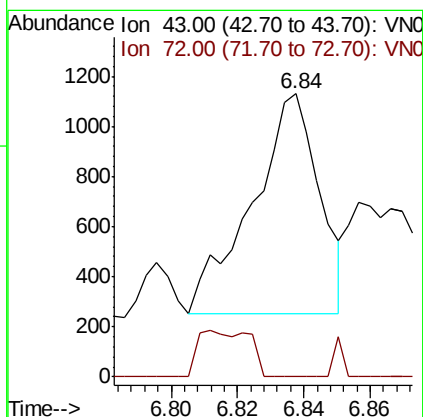
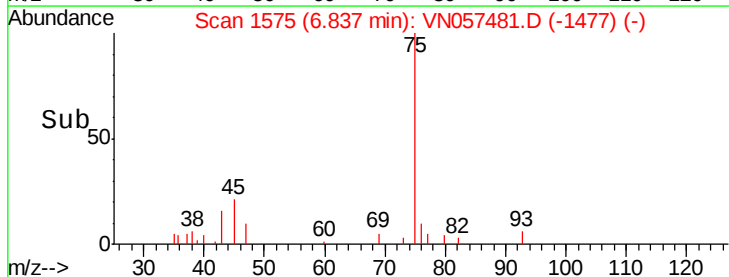
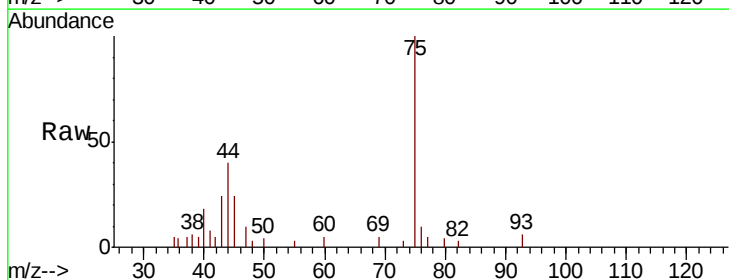
Instrument :  
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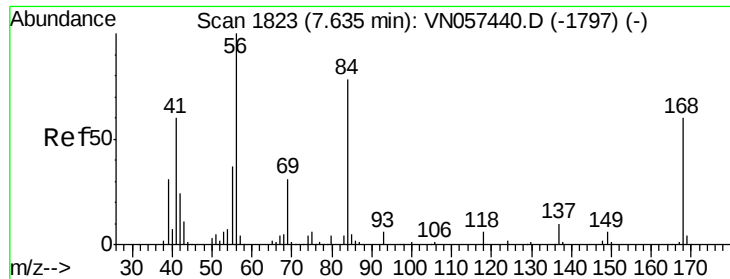
Tgt Ion: 84 Resp: 8057  
Ion Ratio Lower Upper  
84 100  
49 141.2 117.0 175.4  
51 45.8 35.5 53.3  
86 56.8 49.8 74.8



#25  
2-Butanone  
Concen: 0.360 ug/l  
RT: 6.84 min Scan# 1575  
Delta R.T. 0.02 min  
Lab File: VN057481.D  
Acq: 23 Aug 2019 19:11

Tgt Ion: 43 Resp: 1235  
Ion Ratio Lower Upper  
43 100  
72 0.0 17.8 26.8#

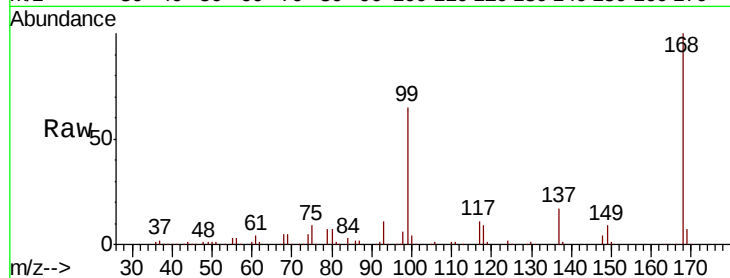




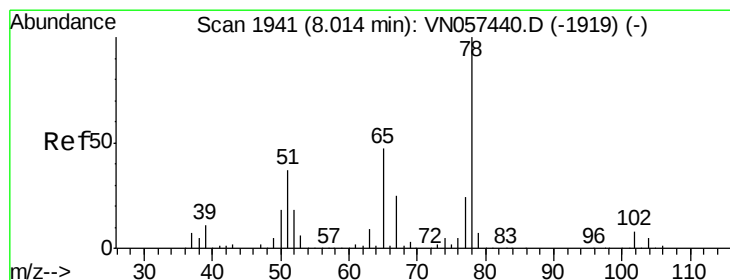
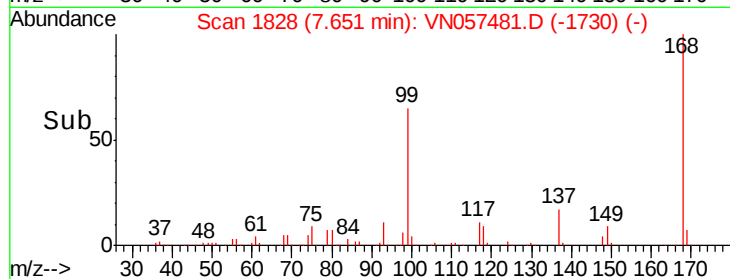
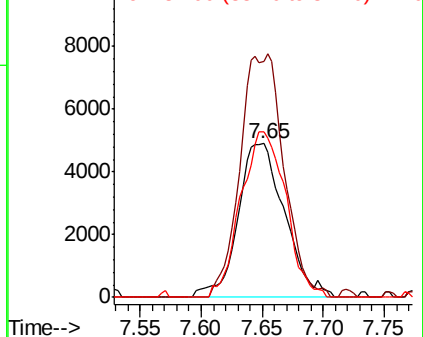
#31  
Cyclohexane  
Concen: 1.336 ug/l  
RT: 7.65 min Scan# 1828  
Delta R.T. 0.02 min  
Lab File: VN057481.D  
Acq: 23 Aug 2019 19:11

Instrument :  
MSVOA\_N  
ClientSampleId :  
T1-S3(0)

Tgt Ion: 56 Resp: 12914  
Ion Ratio Lower Upper  
56 100  
69 153.7 25.0 37.6#  
84 108.1 62.5 93.7#

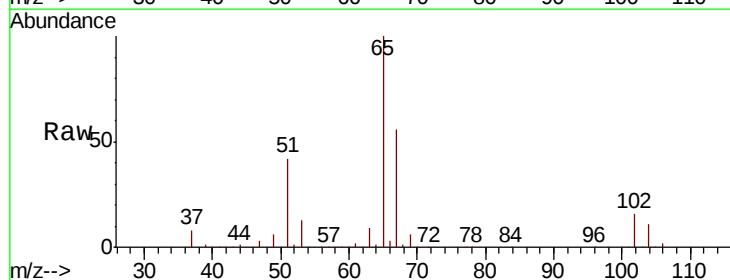


Abundance Ion 56.00 (55.70 to 56.70): VN0  
Ion 69.00 (68.70 to 69.70): VN0  
Ion 84.00 (83.70 to 84.70): VN0

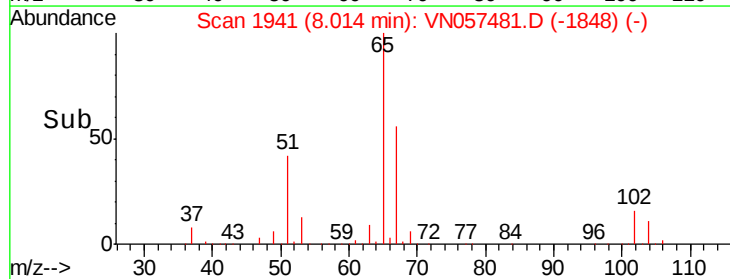
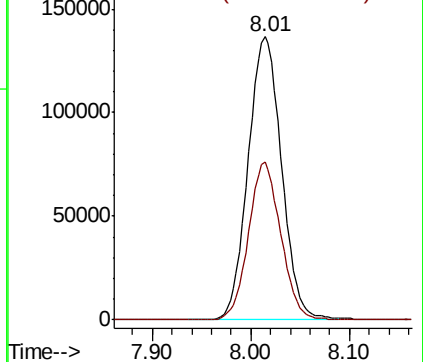


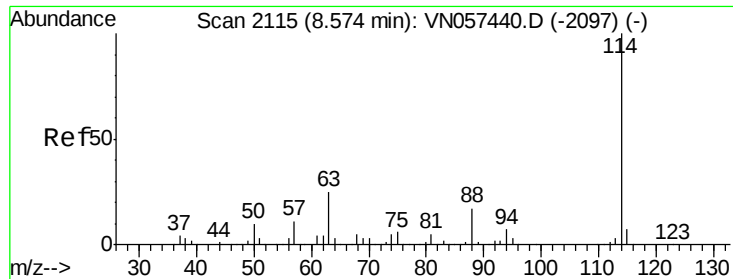
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1,2-Dichloroethane-d4  
Concen: 46.530 ug/l  
RT: 8.01 min Scan# 1941  
Delta R.T. -0.00 min  
Lab File: VN057481.D  
Acq: 23 Aug 2019 19:11

Tgt Ion: 65 Resp: 320120  
Ion Ratio Lower Upper  
65 100  
67 53.6 0.0 103.8



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

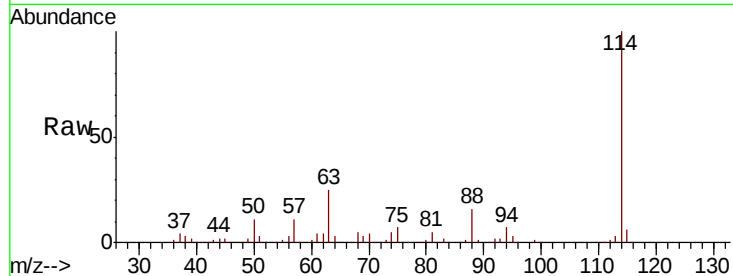




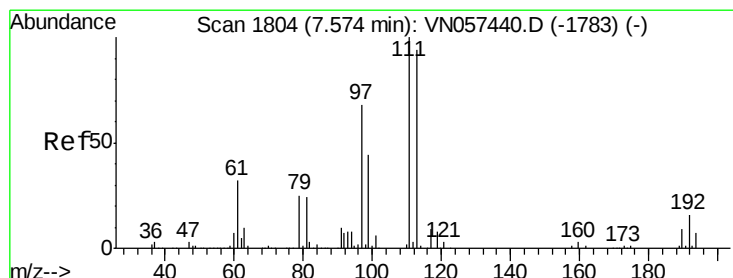
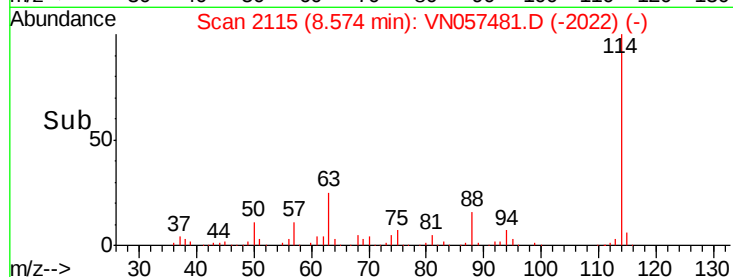
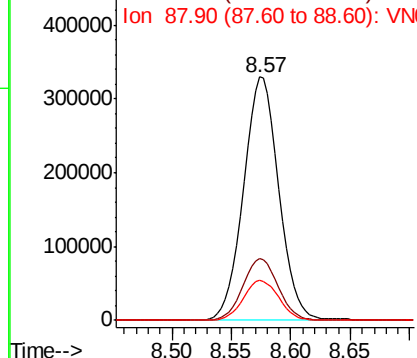
#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.57 min Scan# 2115  
 Delta R.T. -0.00 min  
 Lab File: VN057481.D  
 Acq: 23 Aug 2019 19:11

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 T1-S3(0)

Tgt Ion:114 Resp: 675983  
 Ion Ratio Lower Upper  
 114 100  
 63 25.2 0.0 50.2  
 88 16.3 0.0 34.6

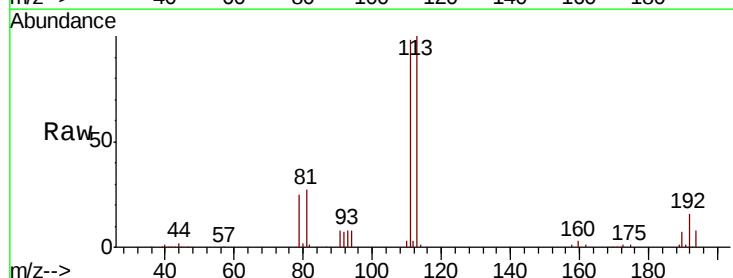


Abundance Ion 113.90 (113.60 to 114.60): V  
 Ion 63.00 (62.70 to 63.70): VN  
 Ion 87.90 (87.60 to 88.60): VN

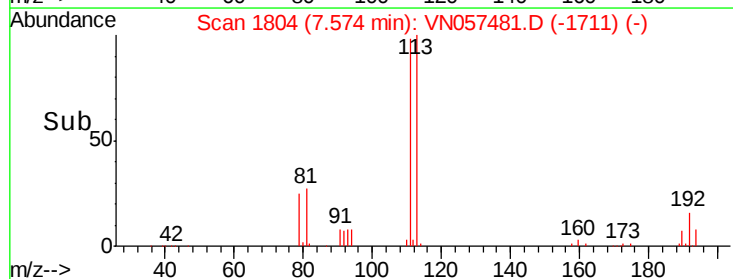
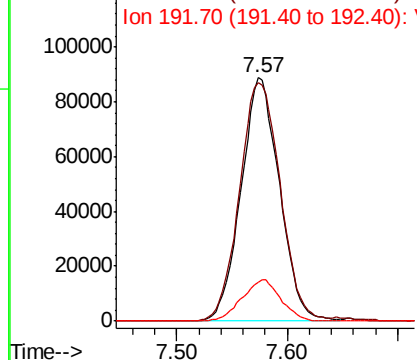


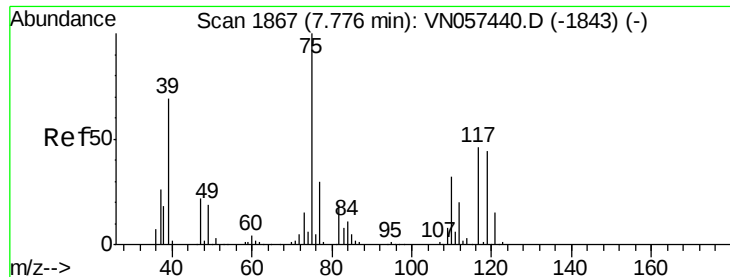
#35  
 Dibromofluoromethane  
 Concen: 46.993 ug/l  
 RT: 7.57 min Scan# 1804  
 Delta R.T. -0.00 min  
 Lab File: VN057481.D  
 Acq: 23 Aug 2019 19:11

Tgt Ion:113 Resp: 214570  
 Ion Ratio Lower Upper  
 113 100  
 111 103.9 83.8 125.6  
 192 17.2 13.5 20.3



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

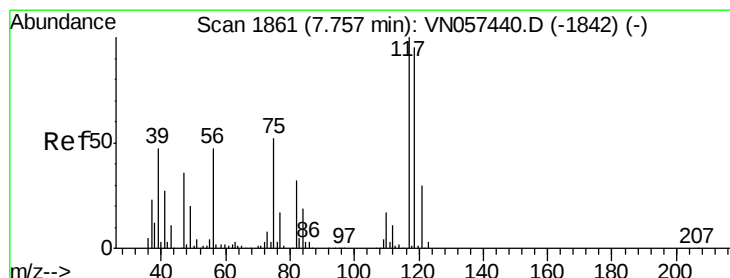
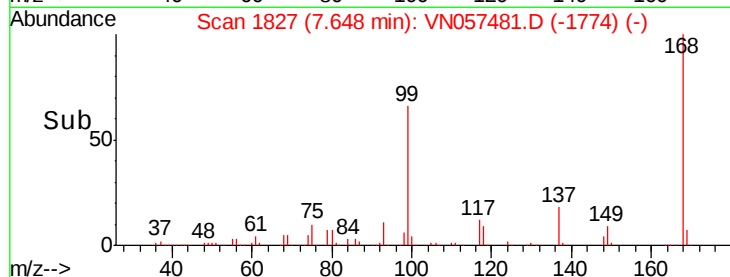
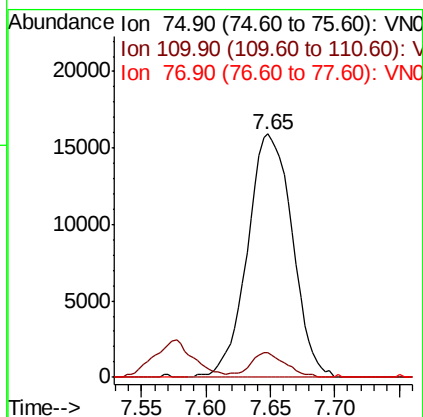
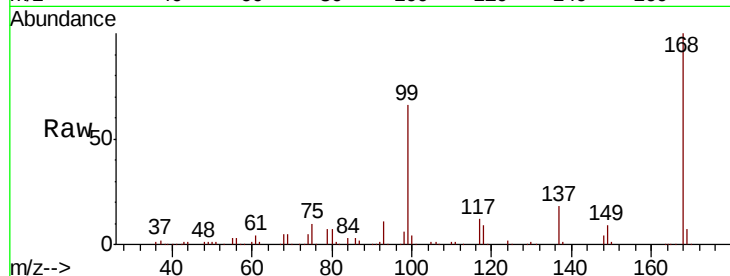




#36  
 1,1-Dichloropropene  
 Concen: 5.576 ug/l  
 RT: 7.65 min Scan# 1827  
 Delta R.T. -0.13 min  
 Lab File: VN057481.D  
 Acq: 23 Aug 2019 19:11

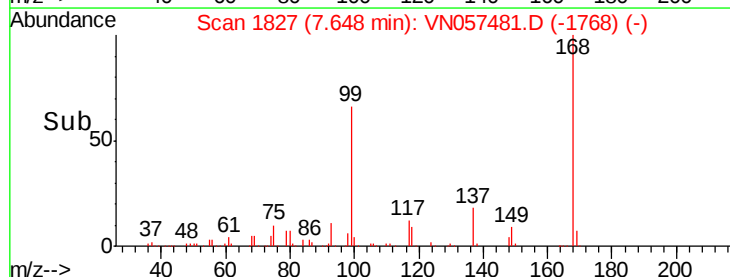
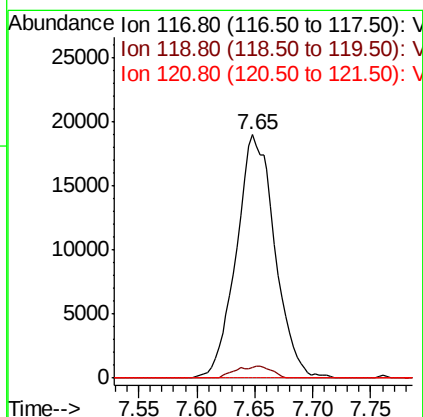
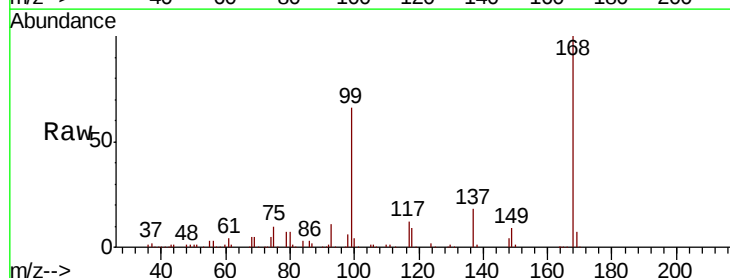
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 T1-S3(0)

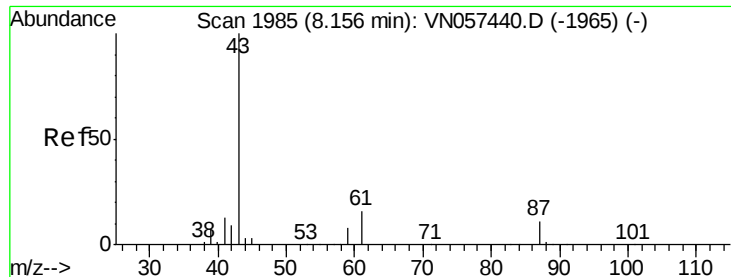
Tgt Ion: 75 Resp: 38516  
 Ion Ratio Lower Upper  
 75 100  
 110 8.0 16.1 48.3#  
 77 0.0 24.8 37.2#



#38  
 Carbon Tetrachloride  
 Concen: 6.431 ug/l  
 RT: 7.65 min Scan# 1827  
 Delta R.T. -0.11 min  
 Lab File: VN057481.D  
 Acq: 23 Aug 2019 19:11

Tgt Ion: 117 Resp: 44129  
 Ion Ratio Lower Upper  
 117 100  
 119 4.2 76.2 114.4#  
 121 0.0 23.8 35.6#

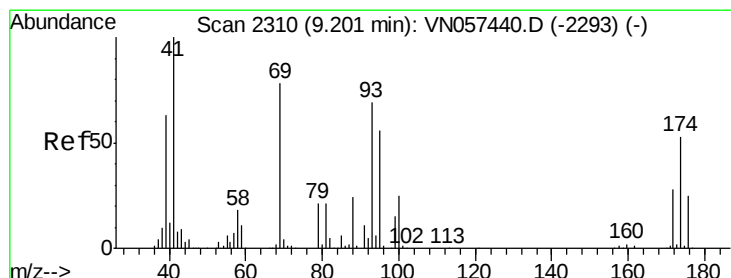
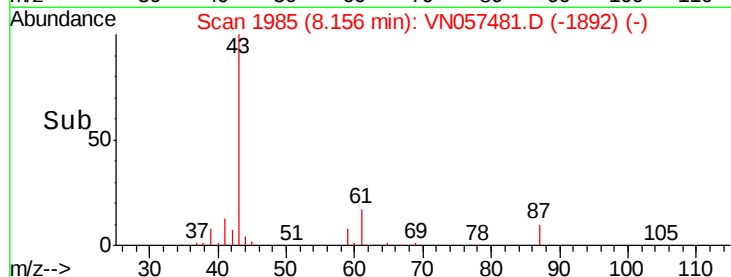
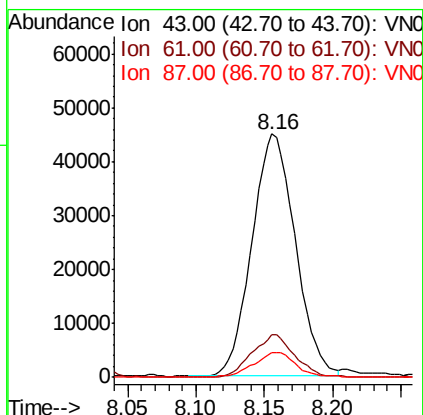
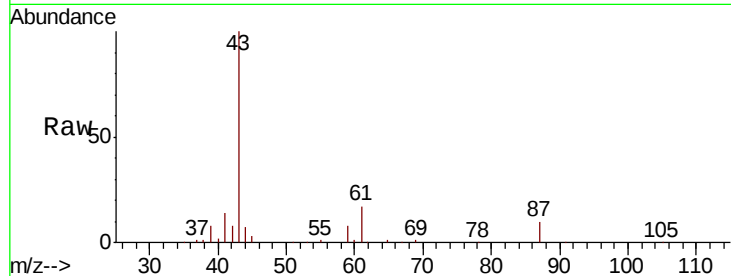




#43  
Isopropyl Acetate  
Concen: 7.949 ug/l  
RT: 8.16 min Scan# 1985  
Delta R.T. -0.00 min  
Lab File: VN057481.D  
Acq: 23 Aug 2019 19:11

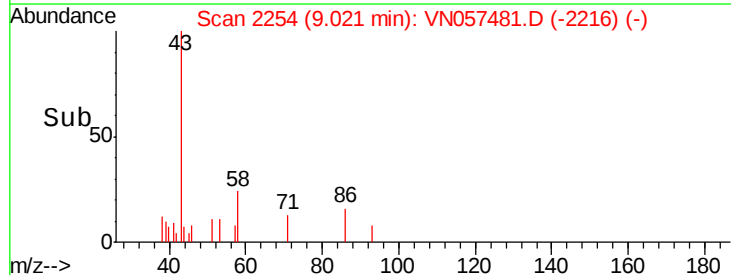
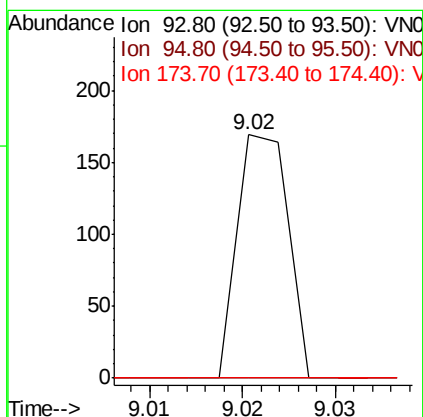
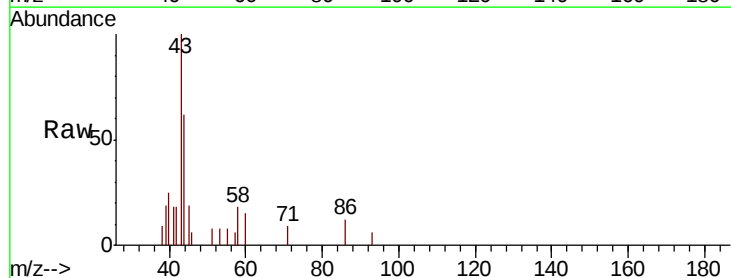
Instrument :  
MSVOA\_N  
ClientSampleId :  
T1-S3(0)

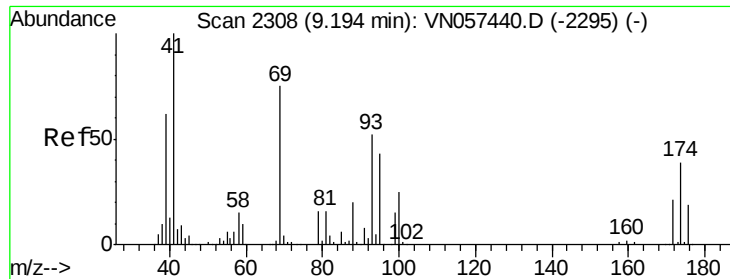
Tgt Ion: 43 Resp: 99475  
Ion Ratio Lower Upper  
43 100  
61 17.2 14.5 21.7  
87 10.2 8.6 12.8



#46  
Dibromomethane  
Concen: Below Cal  
RT: 9.02 min Scan# 2254  
Delta R.T. -0.18 min  
Lab File: VN057481.D  
Acq: 23 Aug 2019 19:11

Tgt Ion: 93 Resp: 64  
Ion Ratio Lower Upper  
93 100  
95 0.0 64.7 97.1#  
174 0.0 62.3 93.5#

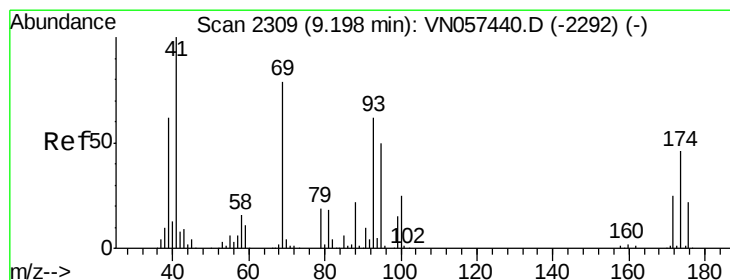
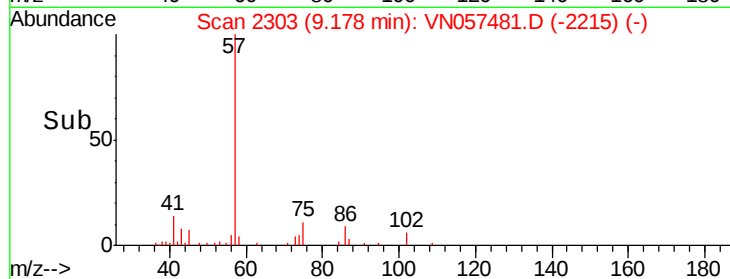
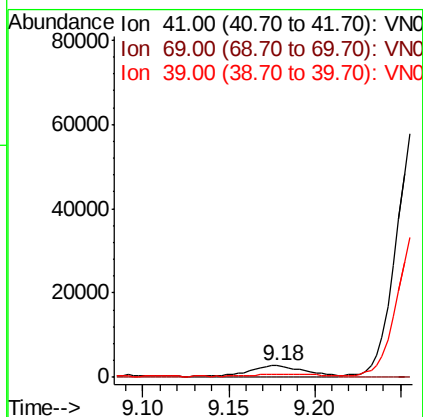
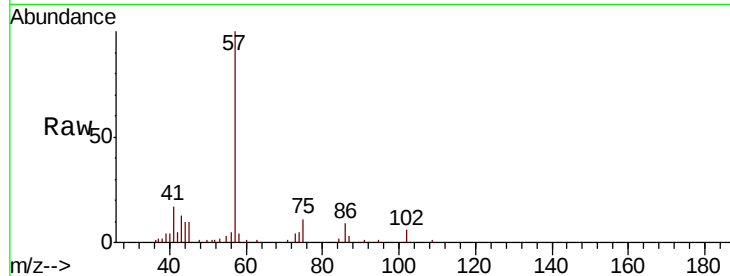




#48  
Methyl methacrylate  
Concen: 0.949 ug/l  
RT: 9.18 min Scan# 2303  
Delta R.T. -0.02 min  
Lab File: VN057481.D  
Acq: 23 Aug 2019 19:11

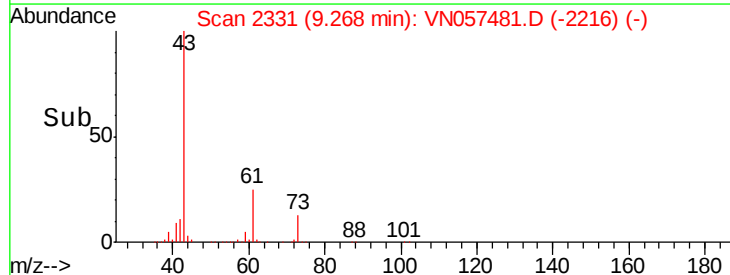
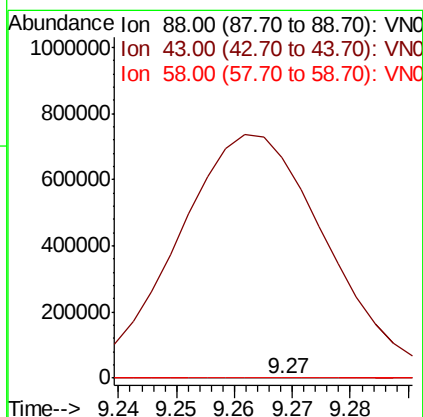
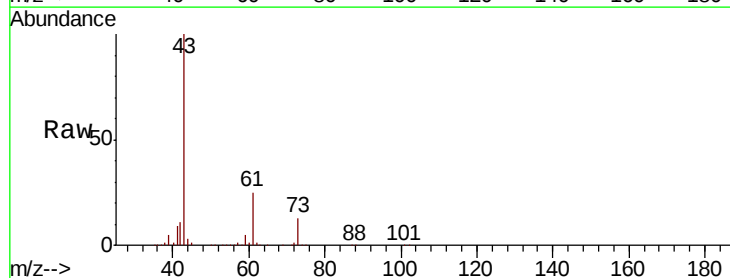
Instrument :  
MSVOA\_N  
ClientSampleId :  
T1-S3(0)

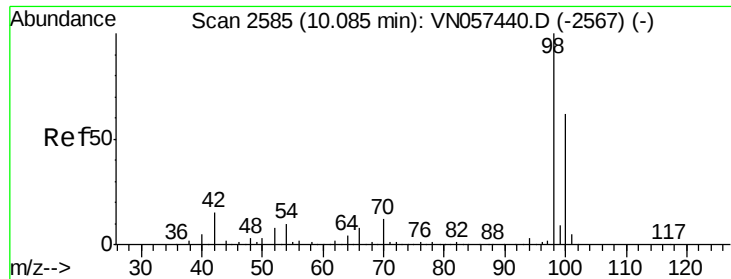
Tgt Ion: 41 Resp: 5645  
Ion Ratio Lower Upper  
41 100  
69 0.0 59.3 88.9#  
39 0.0 50.6 75.8#



#49  
1,4-Dioxane  
Concen: 2.703 ug/l  
RT: 9.27 min Scan# 2331  
Delta R.T. 0.07 min  
Lab File: VN057481.D  
Acq: 23 Aug 2019 19:11

Tgt Ion: 88 Resp: 208  
Ion Ratio Lower Upper  
88 100  
43 656034.6 31.0 46.6#  
58 2703.8 64.5 96.7#





#50

Toluene-d8

Concen: 49.203 ug/l

RT: 10.08 min Scan# 2585

Delta R.T. -0.00 min

Lab File: VN057481.D

Acq: 23 Aug 2019 19:11

Instrument :

MSVOA\_N

ClientSampled :

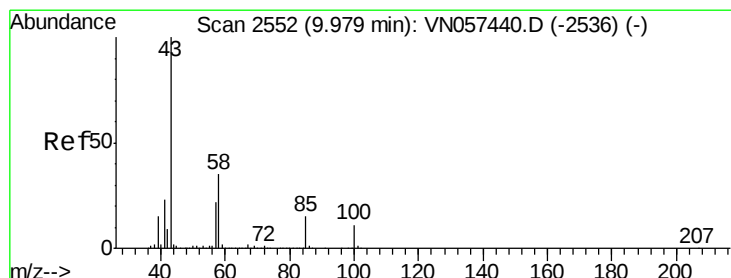
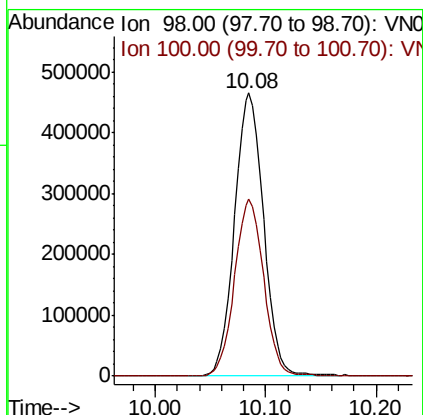
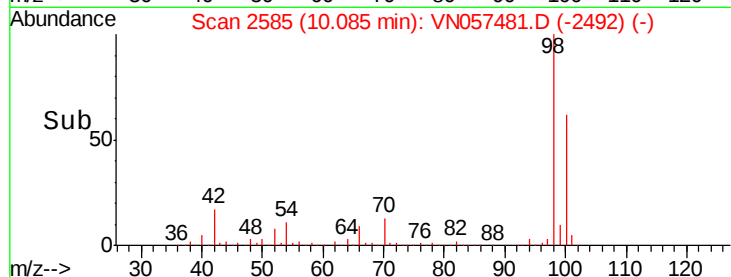
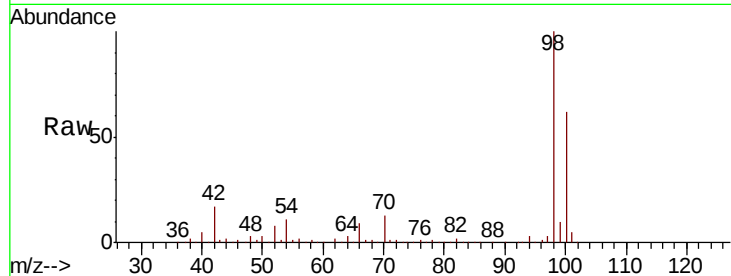
T1-S3(0)

Tgt Ion: 98 Resp: 849486

Ion Ratio Lower Upper

98 100

100 62.9 50.4 75.6



#51

4-Methyl-2-Pentanone

Concen: 1.349 ug/l

RT: 9.98 min Scan# 2552

Delta R.T. -0.00 min

Lab File: VN057481.D

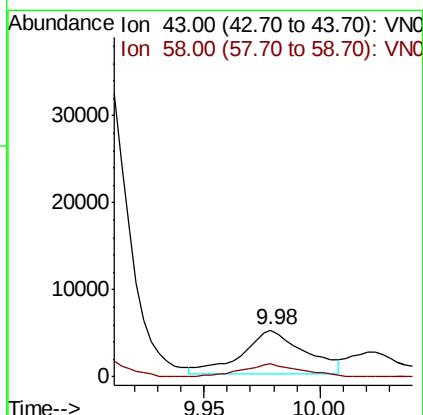
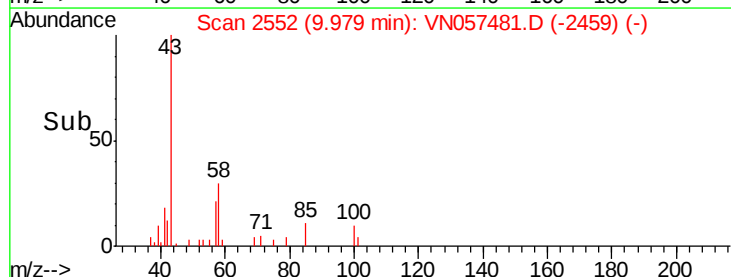
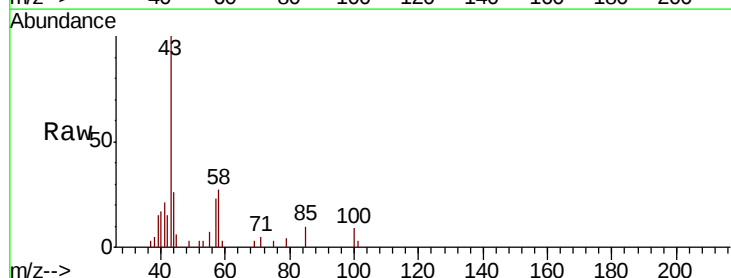
Acq: 23 Aug 2019 19:11

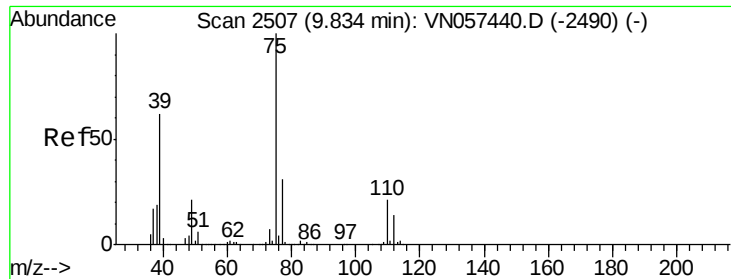
Tgt Ion: 43 Resp: 9412

Ion Ratio Lower Upper

43 100

58 27.7 27.9 41.9#





#54

cis-1,3-Dichloropropene

Concen: 4.281 ug/l

RT: 9.90 min Scan# 2528

Delta R.T. 0.07 min

Lab File: VN057481.D

Acq: 23 Aug 2019 19:11

Instrument :

MSVOA\_N

ClientSampled :

T1-S3(0)

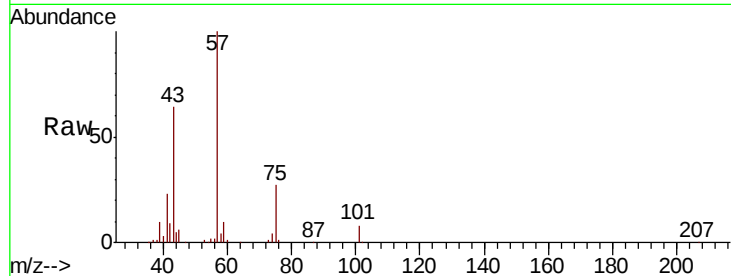
Tgt Ion: 75 Resp: 38455

Ion Ratio Lower Upper

75 100

77 0.0 25.0 37.6#

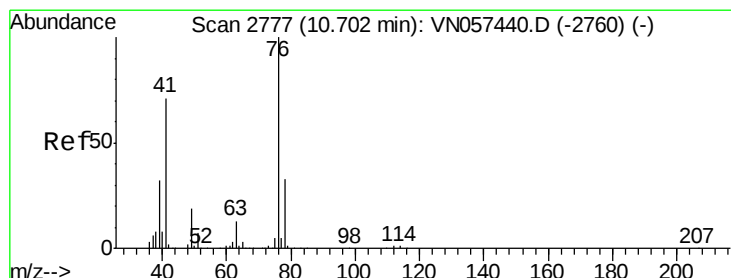
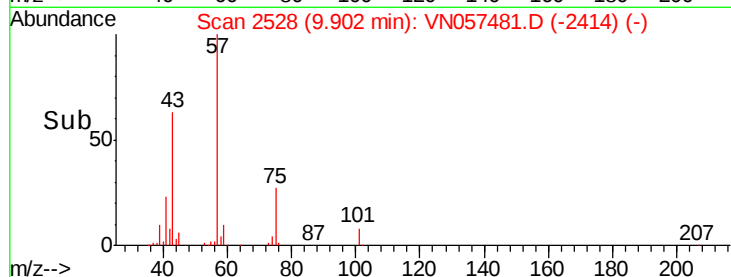
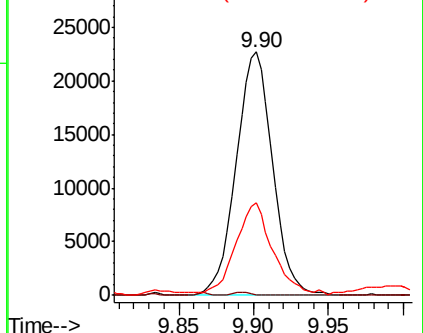
39 36.7 49.2 73.8#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0



#57

1,3-Dichloropropane

Concen: 0.636 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.06 min

Lab File: VN057481.D

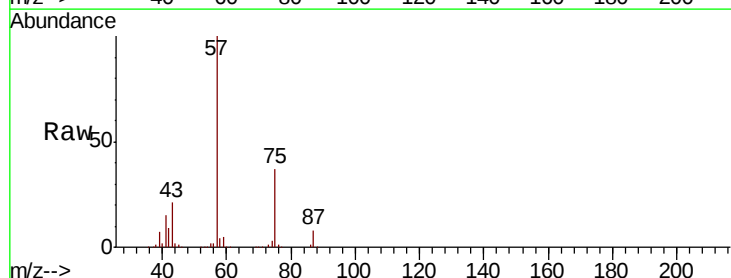
Acq: 23 Aug 2019 19:11

Tgt Ion: 76 Resp: 5349

Ion Ratio Lower Upper

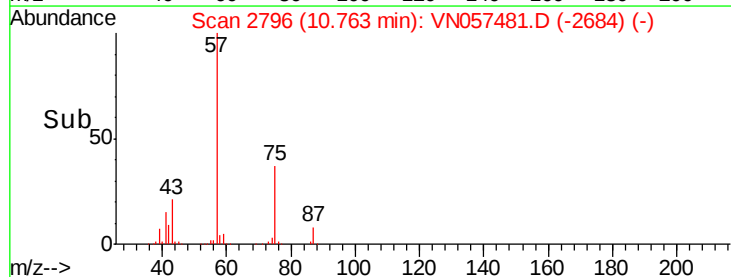
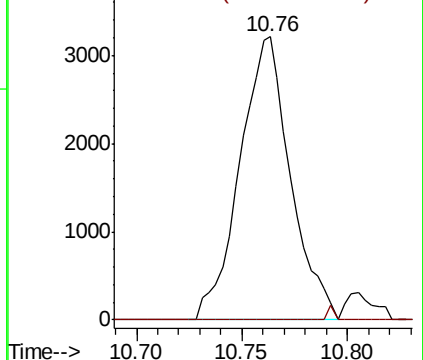
76 100

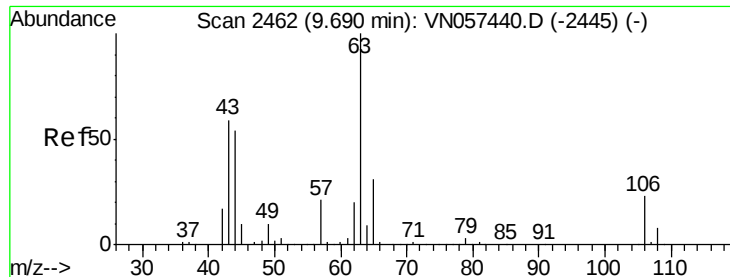
78 0.0 25.5 38.3#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

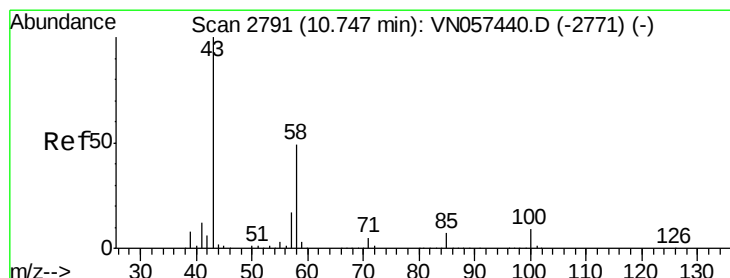
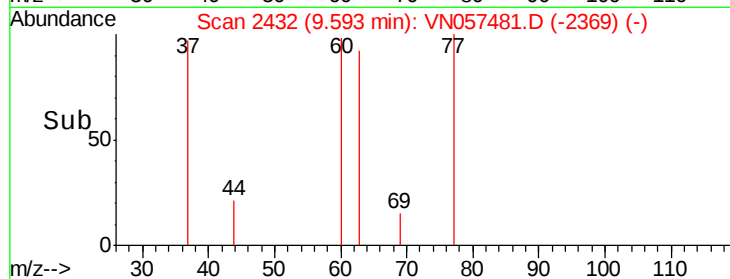
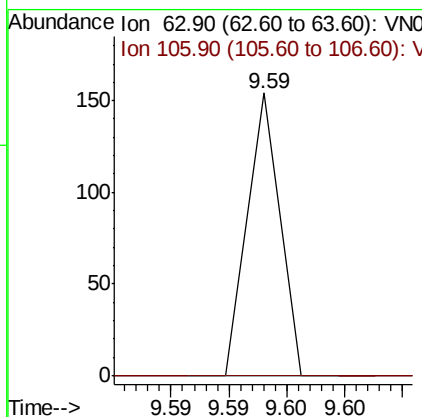
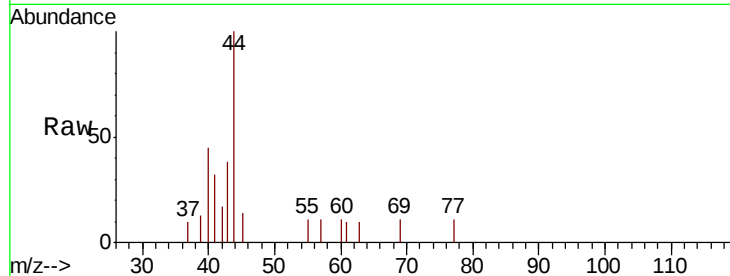




#58  
 2-Chloroethyl Vinyl ether  
 Concen: 17.078 ug/l  
 RT: 9.59 min Scan# 2432  
 Delta R.T. -0.10 min  
 Lab File: VN057481.D  
 Acq: 23 Aug 2019 19:11

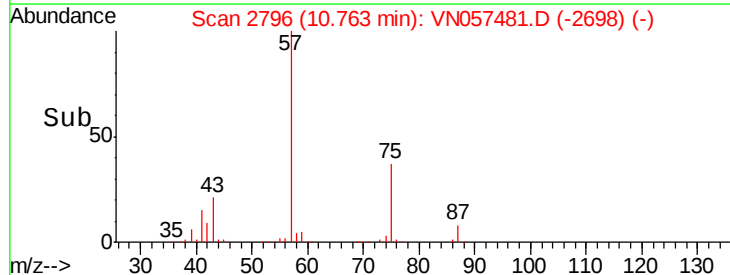
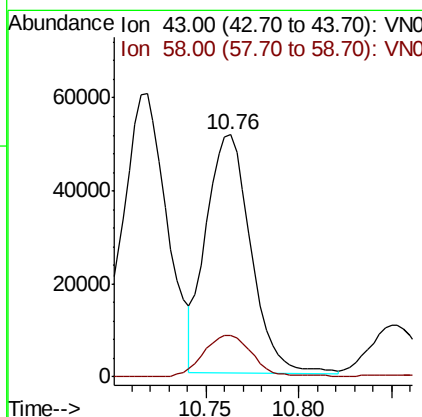
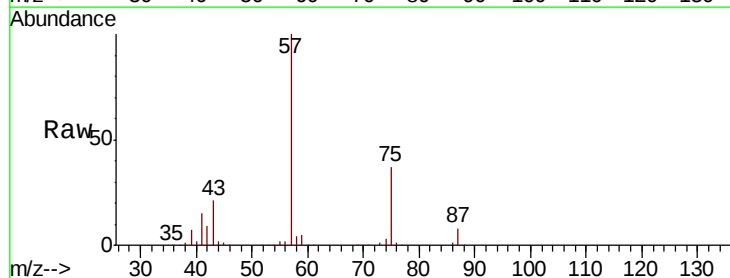
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 T1-S3(0)

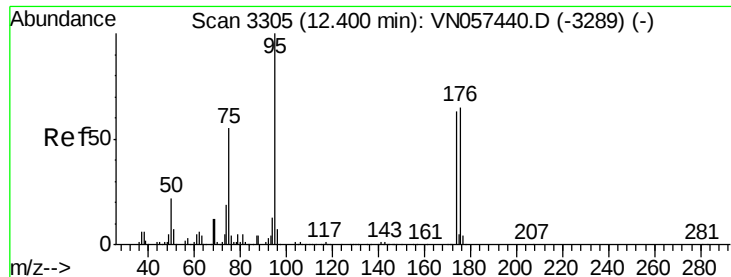
Tgt Ion: 63 Resp: 30  
 Ion Ratio Lower Upper  
 63 100  
 106 0.0 18.6 27.8#



#59  
 2-Hexanone  
 Concen: 17.970 ug/l  
 RT: 10.76 min Scan# 2796  
 Delta R.T. 0.02 min  
 Lab File: VN057481.D  
 Acq: 23 Aug 2019 19:11

Tgt Ion: 43 Resp: 85965  
 Ion Ratio Lower Upper  
 43 100  
 58 18.9 24.6 73.6#





#62

4-Bromofluorobenzene

Concen: 38.327 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN057481.D

Acq: 23 Aug 2019 19:11

Instrument :

MSVOA\_N

ClientSampleId :

T1-S3(0)

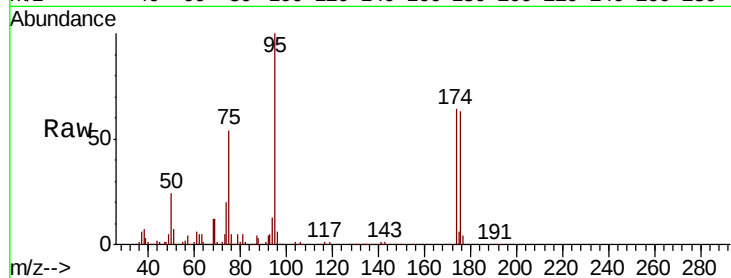
Tgt Ion: 95 Resp: 224242

Ion Ratio Lower Upper

95 100

174 67.8 0.0 133.0

176 64.6 0.0 130.8



Abundance Ion 94.90 (94.60 to 95.60): VN057440.D (-3289) (-)

Ion 173.80 (173.50 to 174.50): VN057440.D (-3289) (-)

Ion 175.80 (175.50 to 176.50): VN057440.D (-3289) (-)

12.40

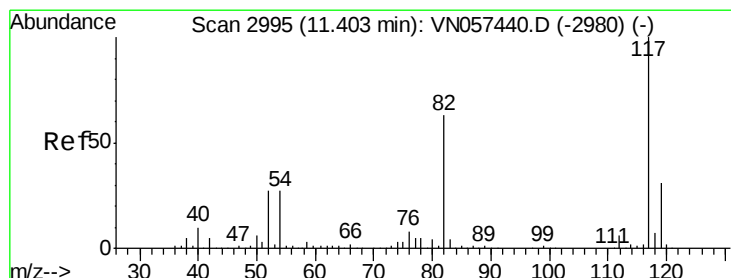
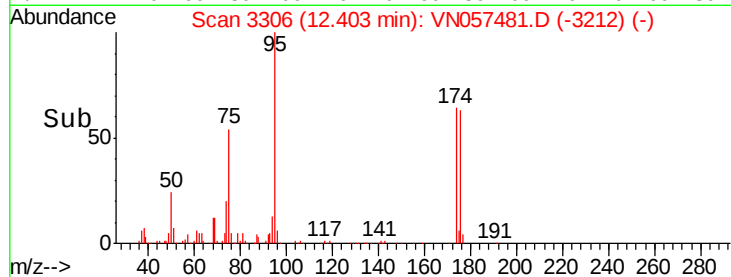
150000

100000

50000

0

Time--> 12.30 12.40 12.50



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.40 min Scan# 2995

Delta R.T. -0.00 min

Lab File: VN057481.D

Acq: 23 Aug 2019 19:11

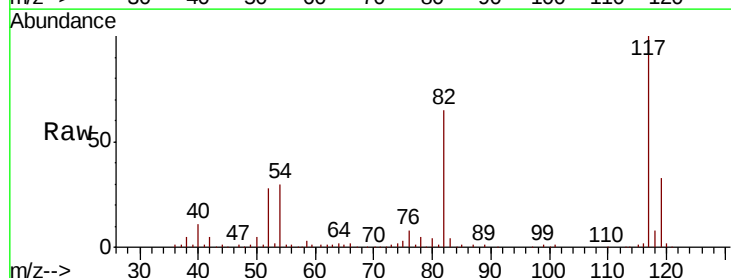
Tgt Ion: 117 Resp: 544557

Ion Ratio Lower Upper

117 100

82 64.8 50.6 75.8

119 32.6 24.6 36.8



Abundance Ion 116.90 (116.60 to 117.60): VN057440.D (-2980) (-)

Ion 82.00 (81.70 to 82.70): VN057440.D (-2980) (-)

Ion 118.90 (118.60 to 119.60): VN057440.D (-2980) (-)

11.40

400000

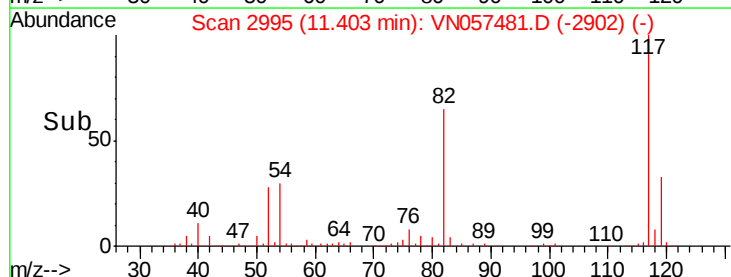
300000

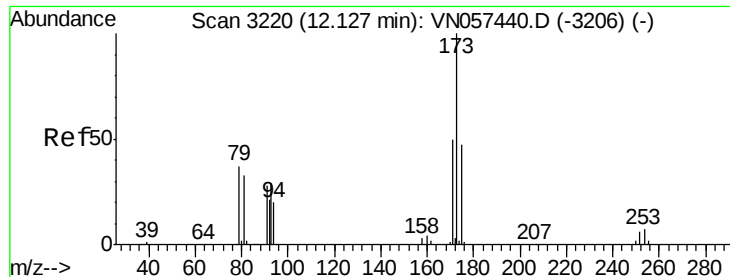
200000

100000

0

Time--> 11.30 11.40 11.50





#71

Bromoform

Concen: 0.274 ug/l

RT: 12.39 min Scan# 3302

Delta R.T. 0.26 min

Lab File: VN057481.D

Acq: 23 Aug 2019 19:11

Instrument :

MSVOA\_N

ClientSampleId :

T1-S3(0)

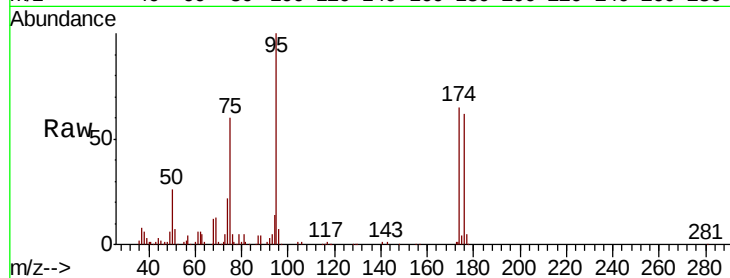
Tgt Ion:173 Resp: 782

Ion Ratio Lower Upper

173 100

175 1238.9 23.9 71.8#

254 0.0 0.1 0.1#

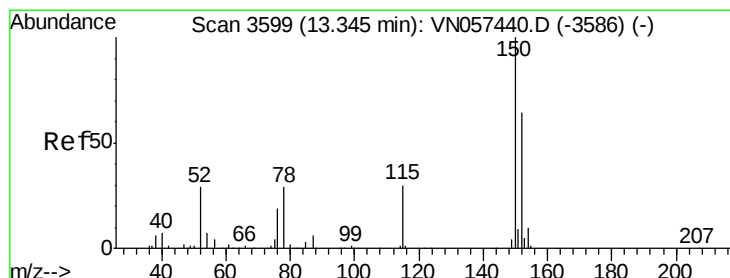
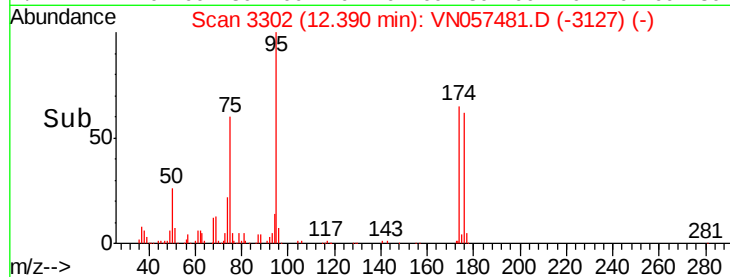
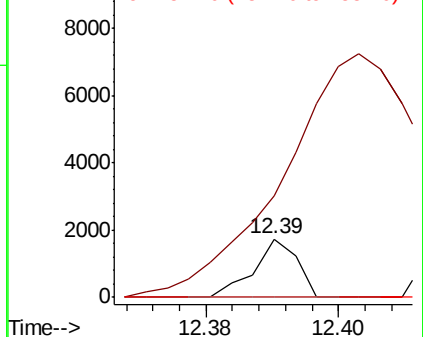


Abundance

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# 3600

Delta R.T. 0.00 min

Lab File: VN057481.D

Acq: 23 Aug 2019 19:11

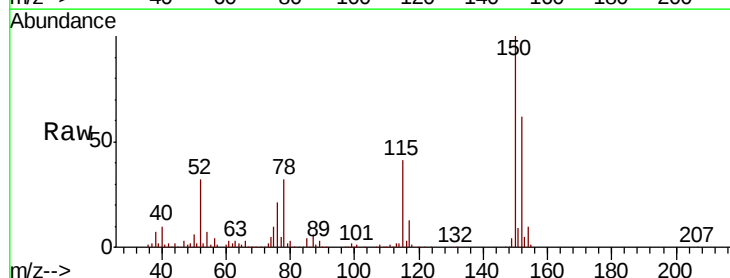
Tgt Ion:152 Resp: 128468

Ion Ratio Lower Upper

152 100

115 63.4 32.0 96.0

150 158.7 0.0 346.6

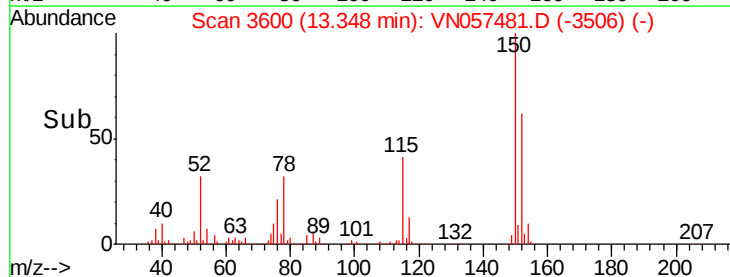
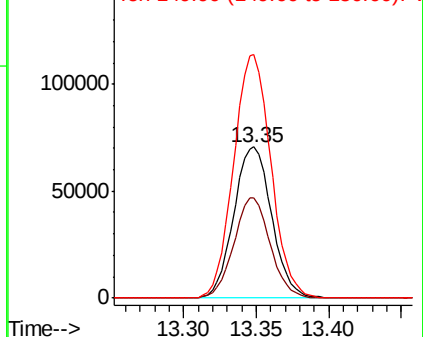


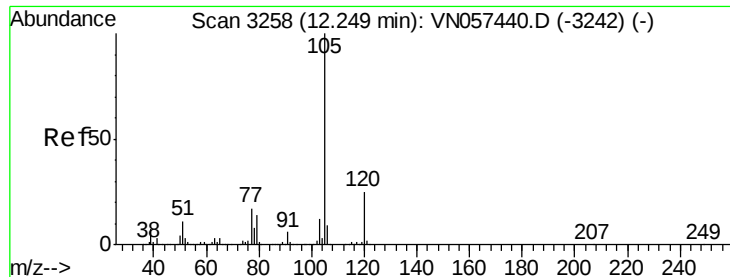
Abundance

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: 12.24 min Scan# 3255

Delta R.T. -0.01 min

Lab File: VN057481.D

Acq: 23 Aug 2019 19:11

Instrument :

MSVOA\_N

ClientSampleId :

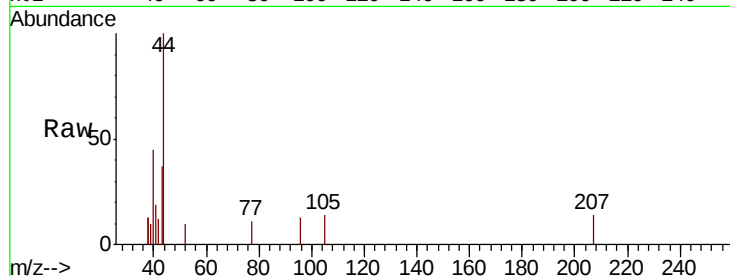
T1-S3(0)

Tgt Ion: 105 Resp: 111

Ion Ratio Lower Upper

105 100

120 0.0 12.7 38.0#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

250

200

150

100

50

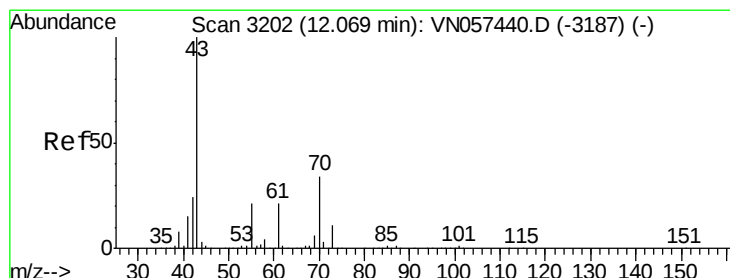
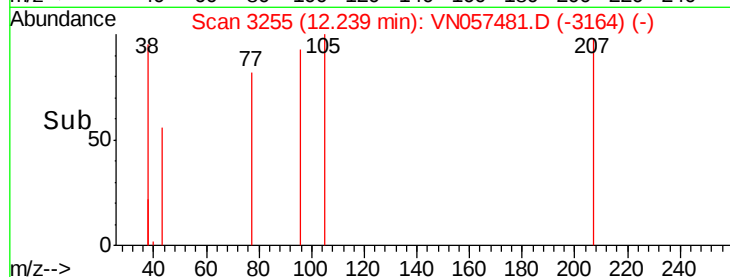
0

12.23

12.24

12.25

Time-->



#74

N-ethyl acetate

Concen: Below Cal

RT: 12.03 min Scan# 3190

Delta R.T. -0.04 min

Lab File: VN057481.D

Acq: 23 Aug 2019 19:11

Tgt Ion: 43 Resp: 3945

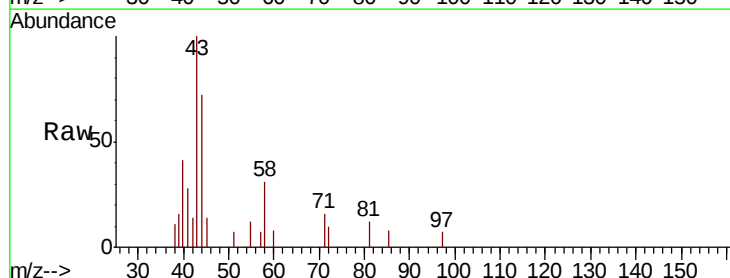
Ion Ratio Lower Upper

43 100

70 0.0 27.8 41.6#

55 9.6 17.0 25.4#

61 0.0 17.0 25.6#



Abundance Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V

3000

2500

2000

1500

1000

500

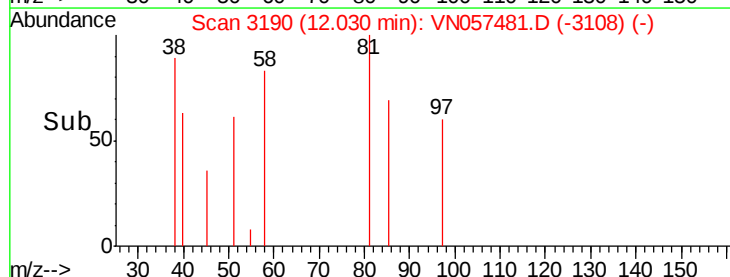
0

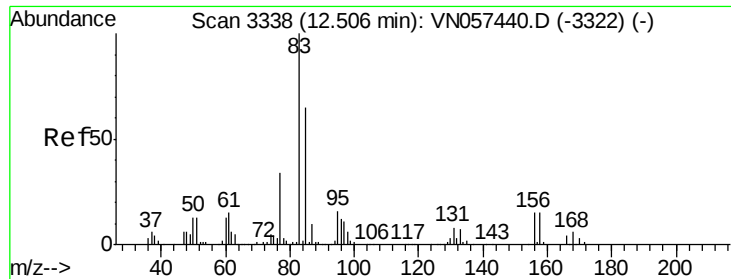
12.00

12.05

12.10

Time-->





#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.50 min Scan# 3335

Delta R.T. -0.01 min

Lab File: VN057481.D

Acq: 23 Aug 2019 19:11

Instrument :

MSVOA\_N

ClientSampleId :

T1-S3(0)

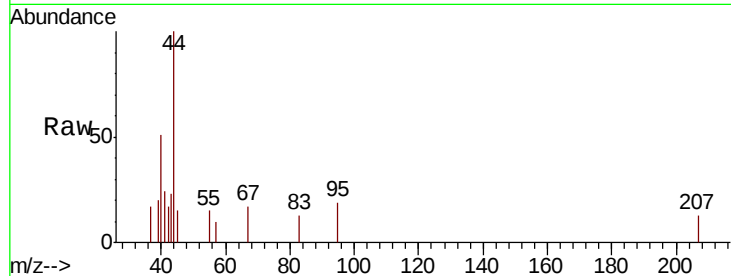
Tgt Ion: 83 Resp: 68

Ion Ratio Lower Upper

83 100

131 0.0 4.3 13.1#

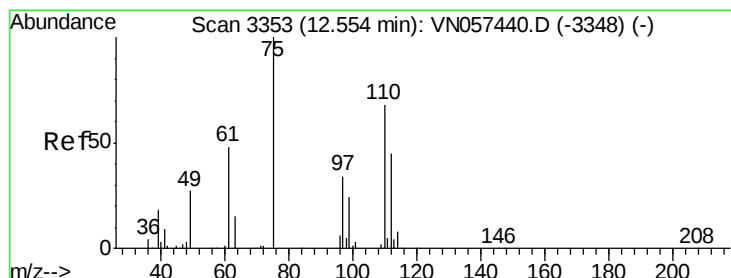
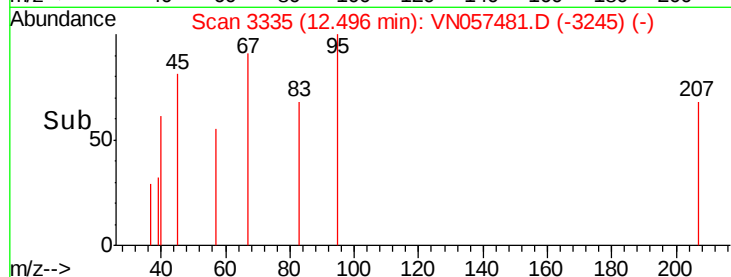
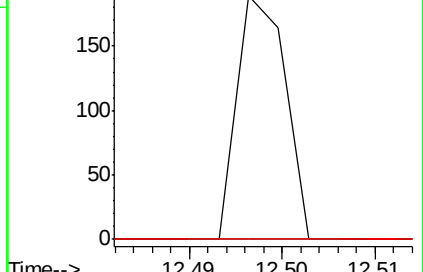
85 0.0 32.3 96.8#



Abundance Ion 82.90 (82.60 to 83.60): VN0

Ion 130.80 (130.50 to 131.50): VN0

Ion 84.90 (84.60 to 85.60): VN0



#76

1,2,3-Trichloropropane

Concen: 45.325 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN057481.D

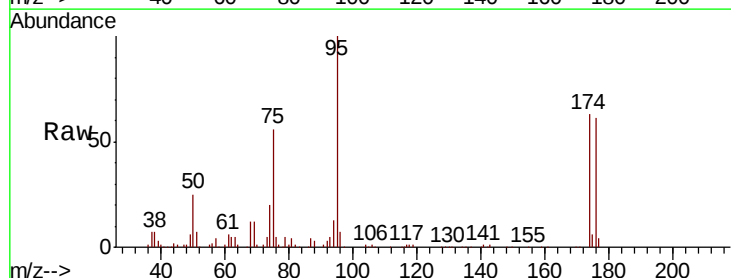
Acq: 23 Aug 2019 19:11

Tgt Ion: 75 Resp: 129878

Ion Ratio Lower Upper

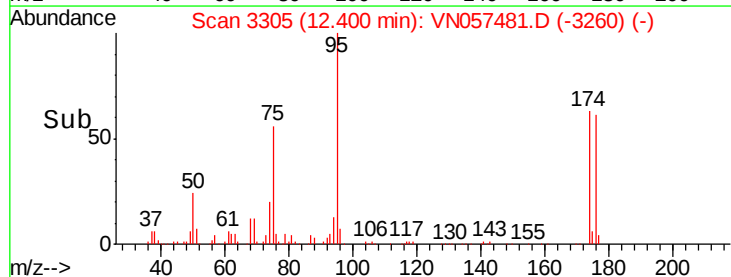
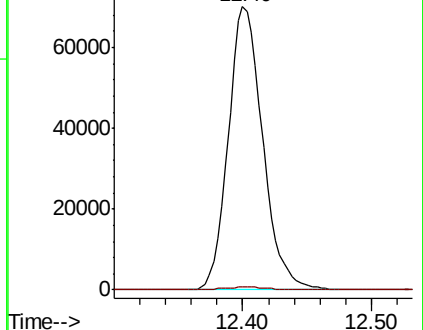
75 100

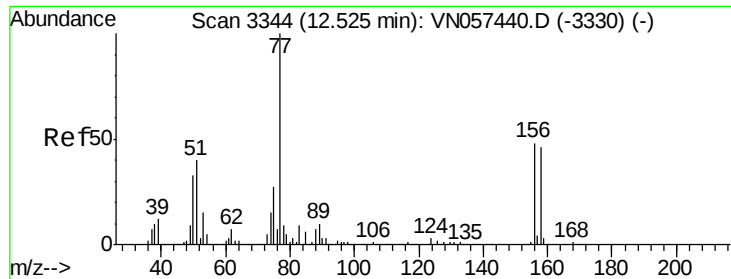
77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0





#77

Bromobenzene

Concen: Below Cal

RT: 12.53 min Scan# 3345

Delta R.T. 0.00 min

Lab File: VN057481.D

Acq: 23 Aug 2019 19:11

Instrument :

MSVOA\_N

ClientSampled :

T1-S3(0)

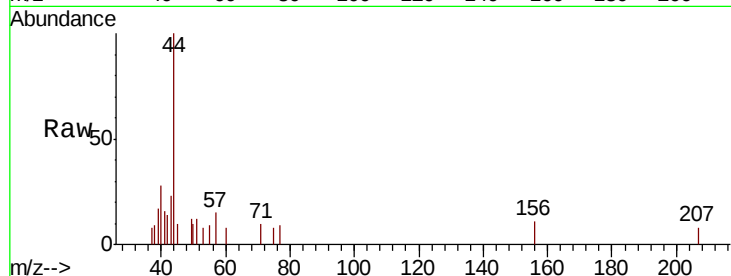
Tgt Ion:156 Resp: 112

Ion Ratio Lower Upper

156 100

77 171.4 124.4 373.3

158 0.0 48.3 144.8#

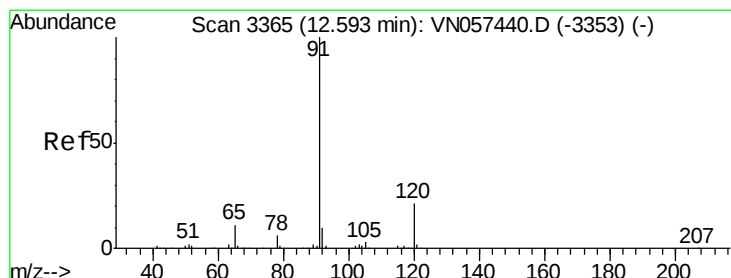
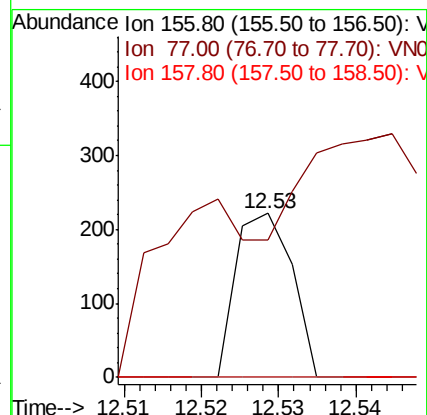
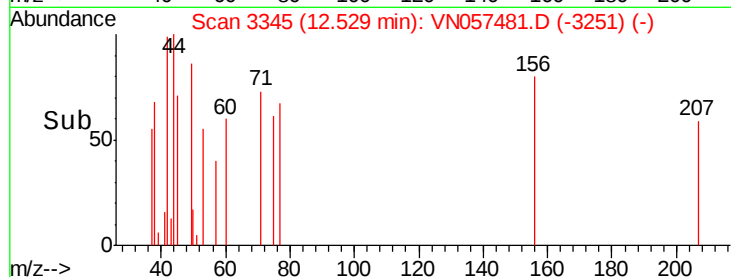


Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VN0

Ion 157.80 (157.50 to 158.50): V

Time--> 12.51 12.52 12.53 12.54



#78

n-propylbenzene

Concen: Below Cal

RT: 12.59 min Scan# 3364

Delta R.T. -0.00 min

Lab File: VN057481.D

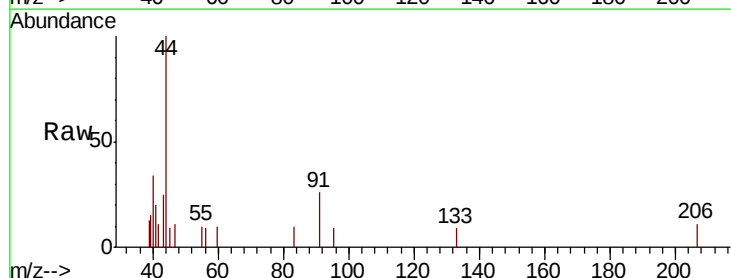
Acq: 23 Aug 2019 19:11

Tgt Ion: 91 Resp: 860

Ion Ratio Lower Upper

91 100

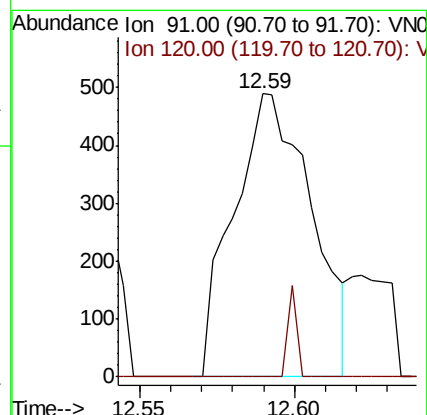
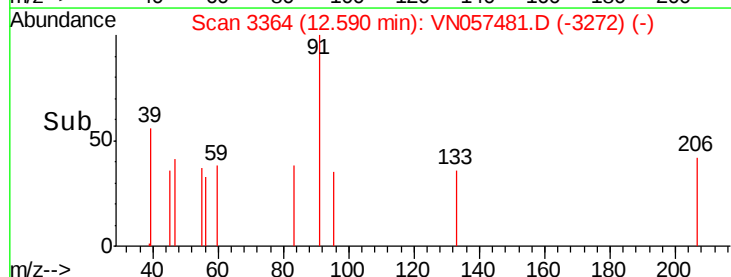
120 3.5 10.7 32.1#

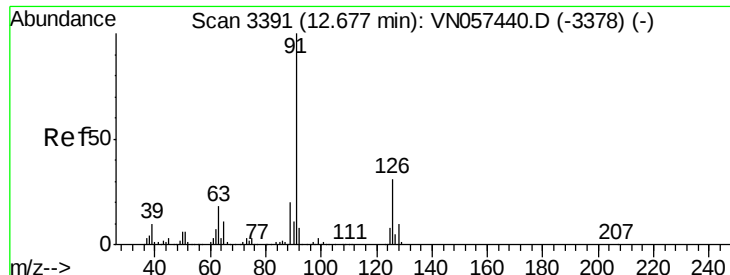


Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 120.00 (119.70 to 120.70): V

Time--> 12.55 12.60





#79

2-Chlorotoluene

Concen: Below Cal

RT: 12.67 min Scan# 3388

Delta R.T. -0.01 min

Lab File: VN057481.D

Acq: 23 Aug 2019 19:11

Instrument :

MSVOA\_N

ClientSampled :

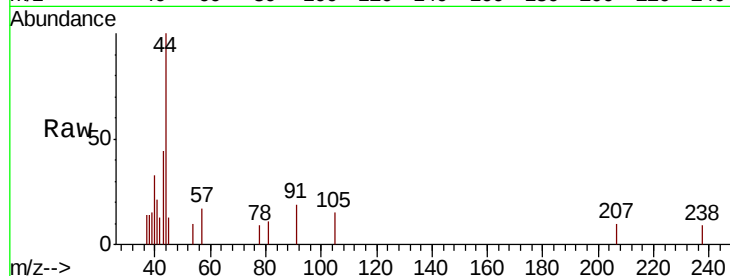
T1-S3(0)

Tgt Ion: 91 Resp: 445

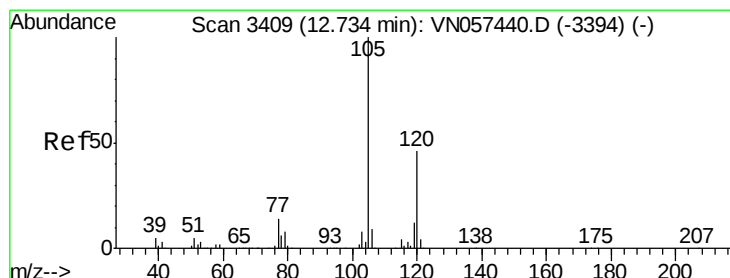
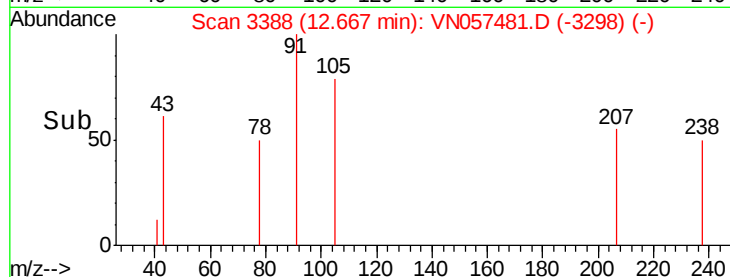
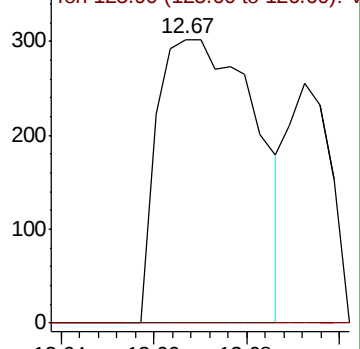
Ion Ratio Lower Upper

91 100

126 0.0 15.3 45.8#



Abundance Ion 91.00 (90.70 to 91.70): VN057440.D (-3378) (-)



#80

1,3,5-Trimethylbenzene

Concen: Below Cal

RT: 12.73 min Scan# 3408

Delta R.T. -0.00 min

Lab File: VN057481.D

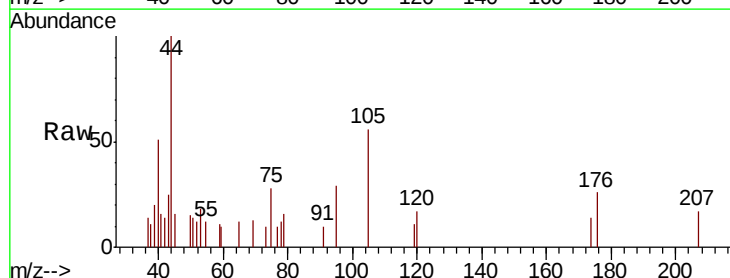
Acq: 23 Aug 2019 19:11

Tgt Ion: 105 Resp: 1505

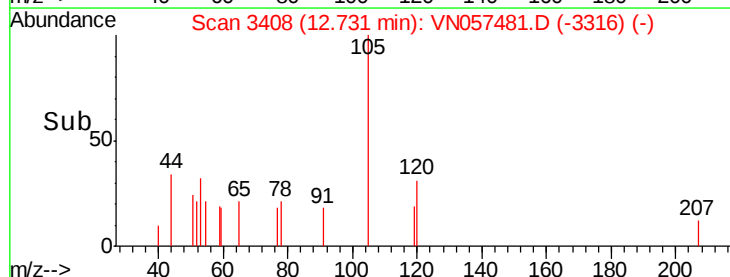
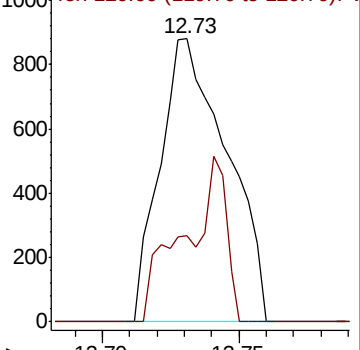
Ion Ratio Lower Upper

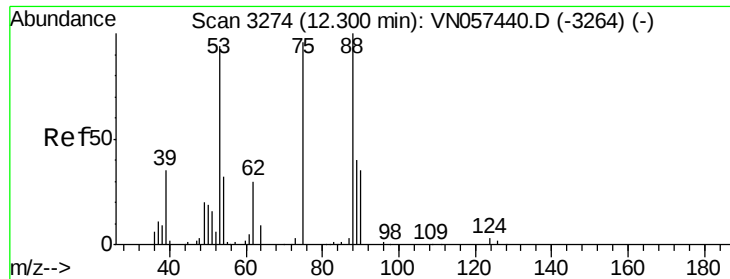
105 100

120 36.5 23.3 69.8



Abundance Ion 105.00 (104.70 to 105.70): VN057440.D (-3394) (-)





#81

trans-1,4-Dichloro-2-butene

Concen: 116.136 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN057481.D

Acq: 23 Aug 2019 19:11

Instrument :

MSVOA\_N

ClientSampleId :

T1-S3(0)

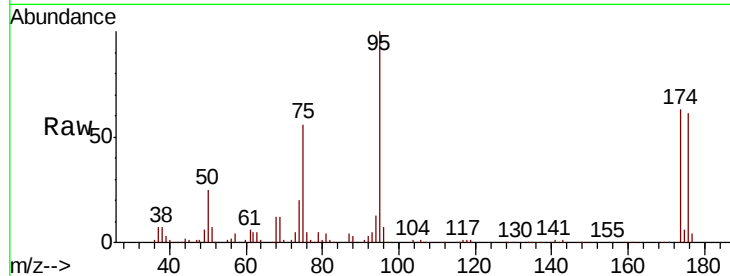
Tgt Ion: 75 Resp: 129878

Ion Ratio Lower Upper

75 100

53 0.0 82.7 124.1#

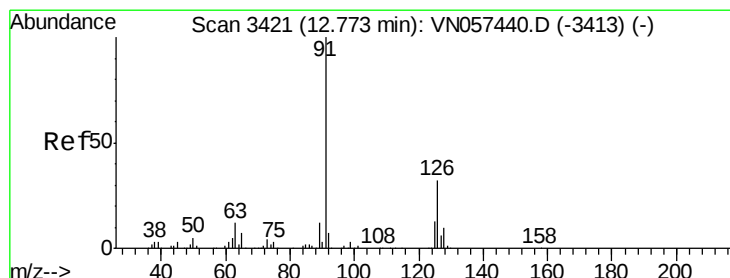
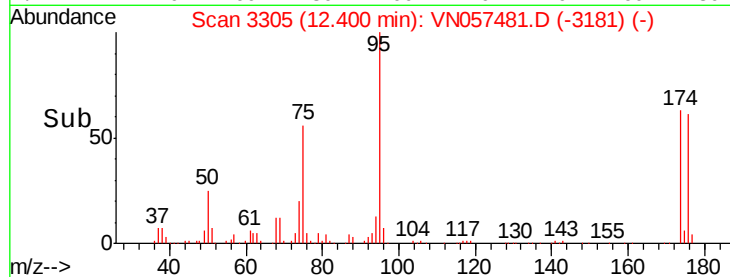
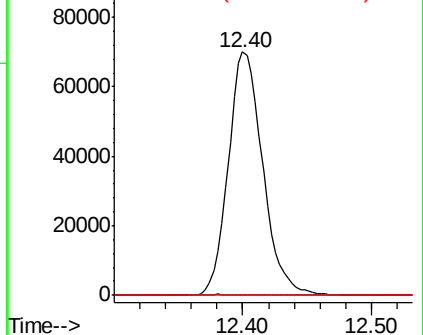
89 0.0 35.8 53.8#



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



#82

4-Chlorotoluene

Concen: Below Cal

RT: 12.78 min Scan# 3423

Delta R.T. 0.01 min

Lab File: VN057481.D

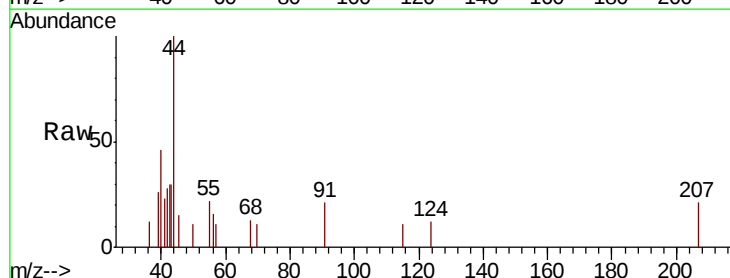
Acq: 23 Aug 2019 19:11

Tgt Ion: 91 Resp: 553

Ion Ratio Lower Upper

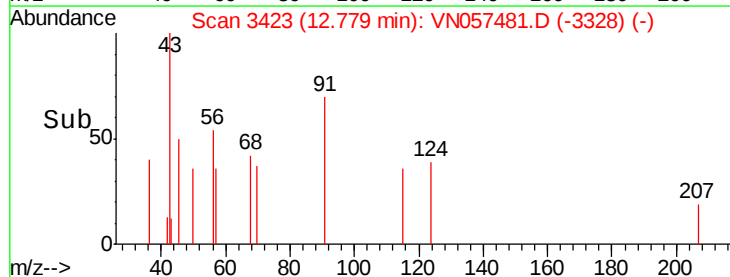
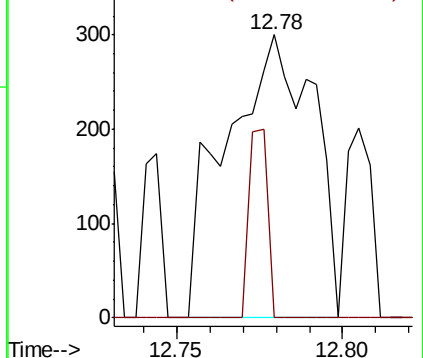
91 100

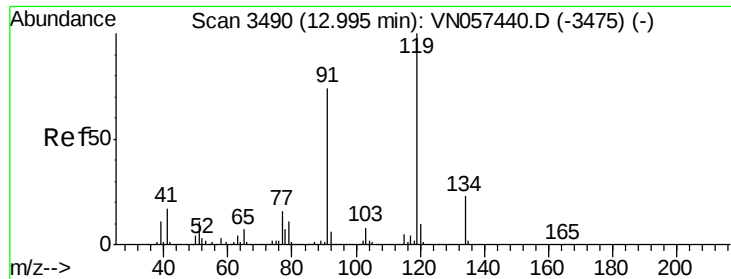
126 13.9 15.0 45.0#



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 125.90 (125.60 to 126.60): V

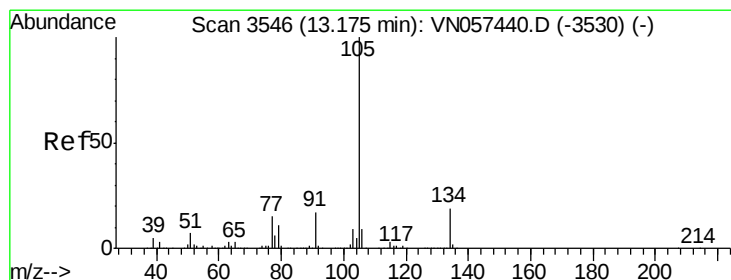
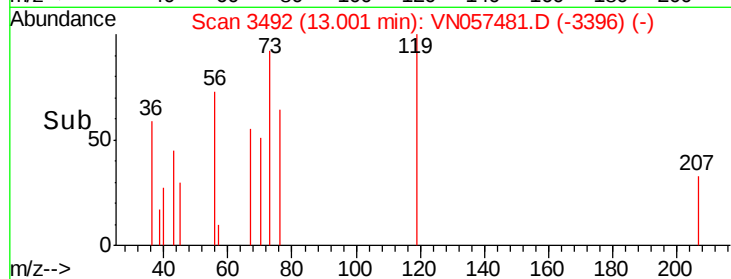
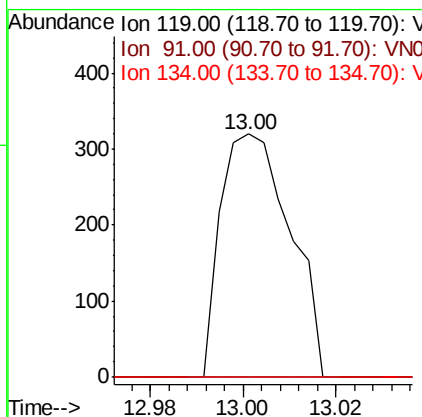
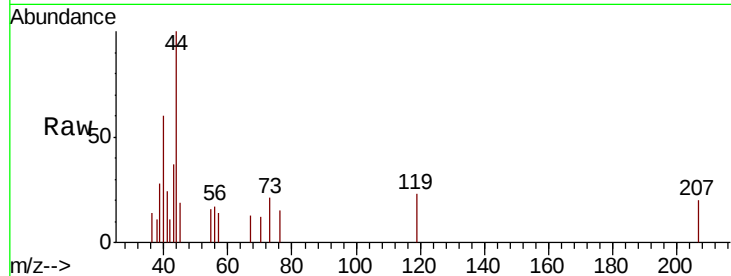




#83  
tert-Butylbenzene  
Concen: Below Cal  
RT: 13.00 min Scan# 3492  
Delta R.T. 0.01 min  
Lab File: VN057481.D  
Acq: 23 Aug 2019 19:11

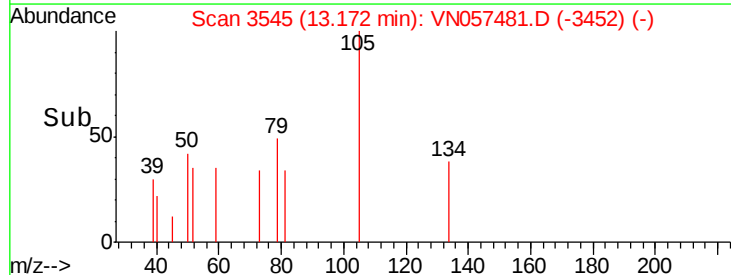
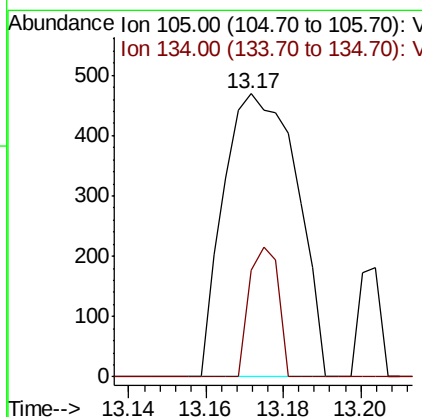
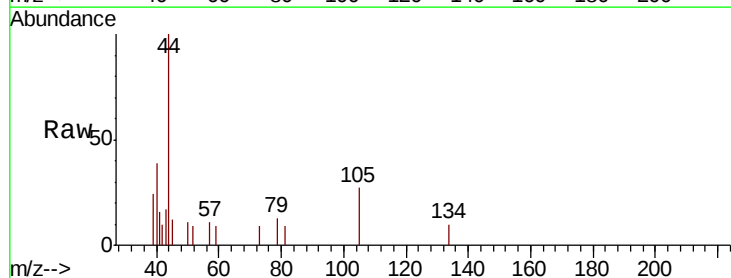
Instrument :  
MSVOA\_N  
ClientSampleId :  
T1-S3(0)

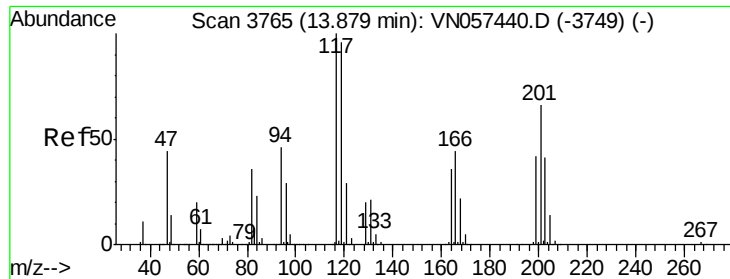
Tgt Ion:119 Resp: 332  
Ion Ratio Lower Upper  
119 100  
91 0.0 37.0 111.0#  
134 0.0 12.2 36.6#



#85  
sec-Butylbenzene  
Concen: Below Cal  
RT: 13.17 min Scan# 3545  
Delta R.T. -0.00 min  
Lab File: VN057481.D  
Acq: 23 Aug 2019 19:11

Tgt Ion:105 Resp: 616  
Ion Ratio Lower Upper  
105 100  
134 18.3 9.3 27.9





#90

Hexachloroethane

Concen: Below Cal

RT: 13.99 min Scan# 3801

Delta R.T. 0.12 min

Lab File: VN057481.D

Acq: 23 Aug 2019 19:11

Instrument :

MSVOA\_N

ClientSampled :

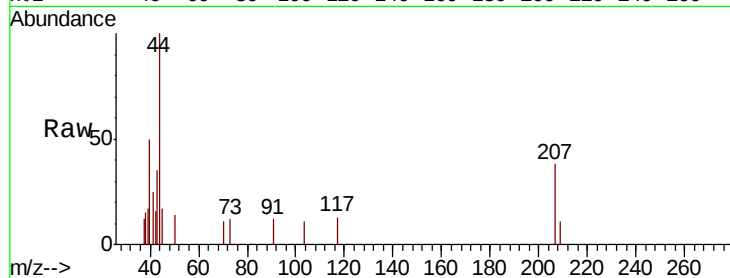
T1-S3(0)

Tgt Ion:117 Resp: 68

Ion Ratio Lower Upper

117 100

201 0.0 33.1 99.3#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V

13.99

200

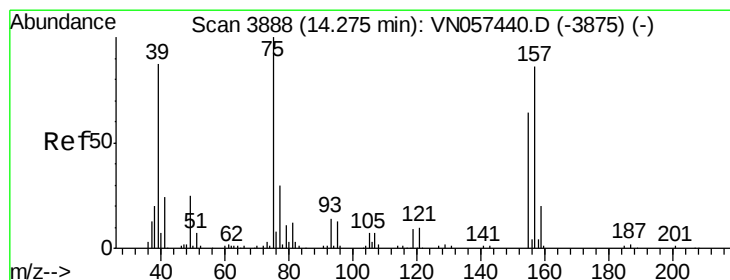
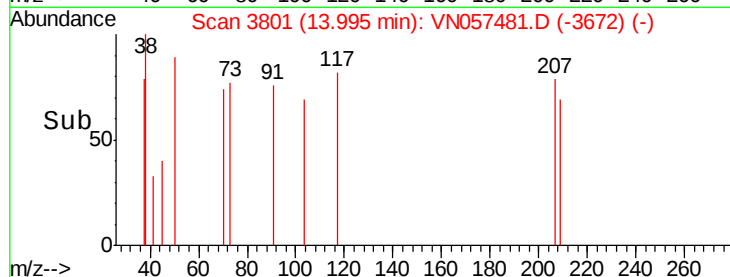
150

100

50

0

Time-->



#92

1,2-Dibromo-3-Chloropropane

Concen: Below Cal

RT: 14.14 min Scan# 3846

Delta R.T. -0.13 min

Lab File: VN057481.D

Acq: 23 Aug 2019 19:11

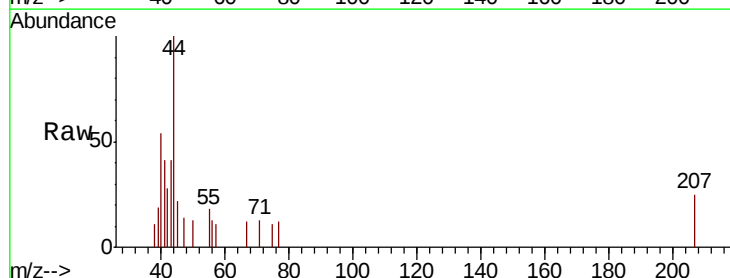
Tgt Ion: 75 Resp: 31

Ion Ratio Lower Upper

75 100

155 0.0 31.6 94.7#

157 0.0 43.3 129.8#



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

14.14

200

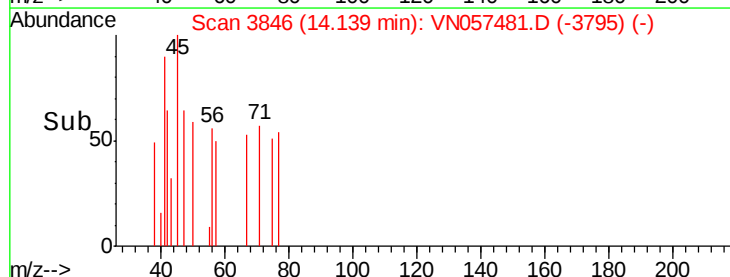
150

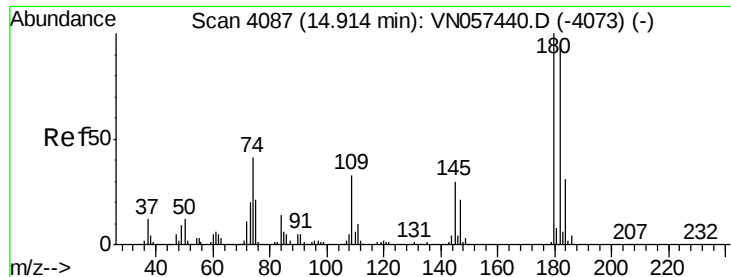
100

50

0

Time-->

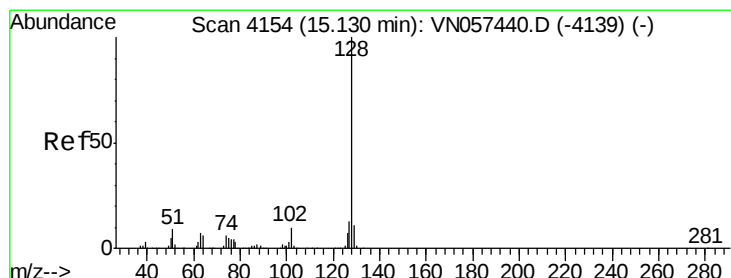
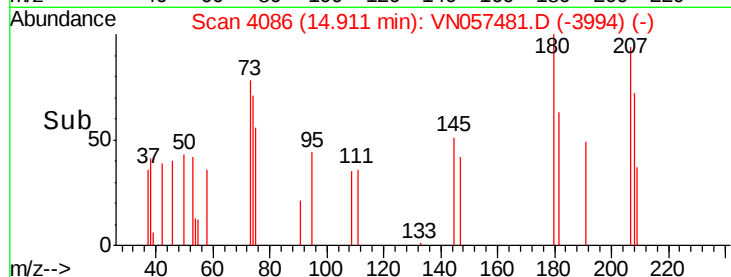
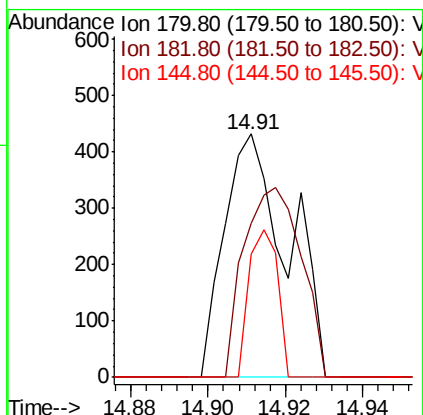
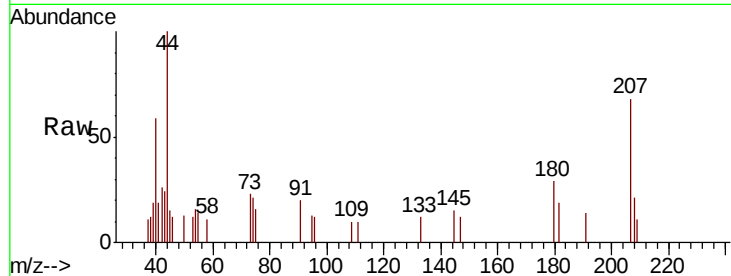




#93  
 1,2,4-Trichlorobenzene  
 Concen: 5.646 ug/l  
 RT: 14.91 min Scan# 4086  
 Delta R.T. -0.00 min  
 Lab File: VN057481.D  
 Acq: 23 Aug 2019 19:11

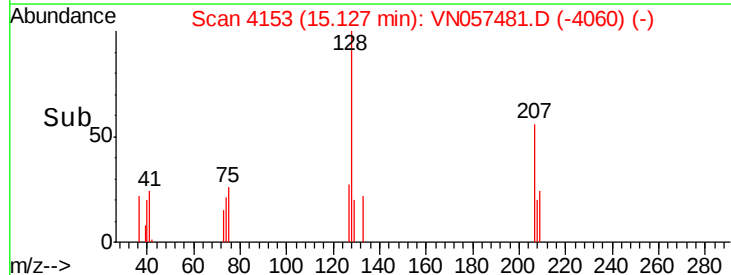
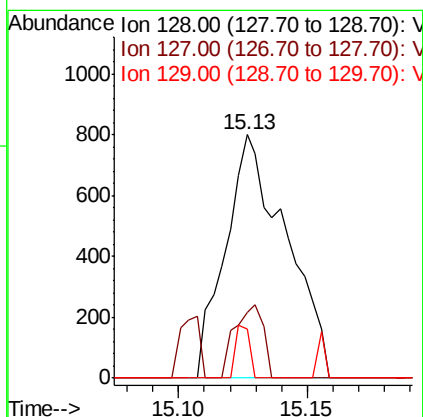
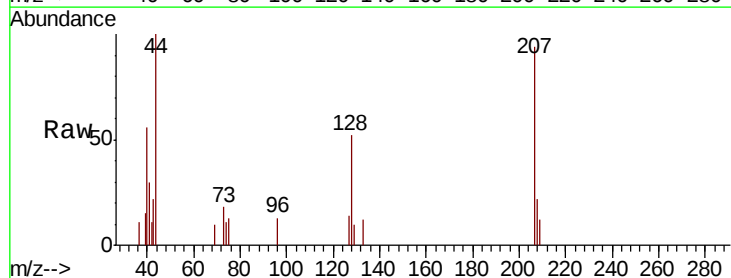
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 T1-S3(0)

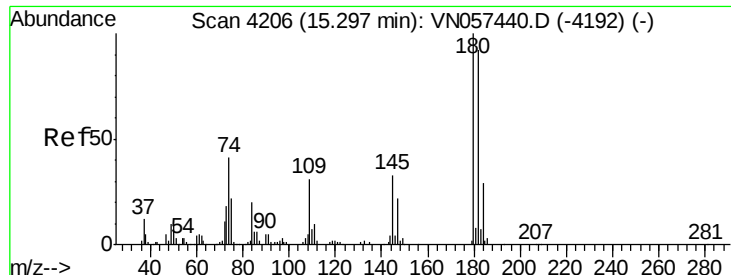
Tgt Ion:180 Resp: 492  
 Ion Ratio Lower Upper  
 180 100  
 182 70.5 46.7 140.1  
 145 27.4 15.6 46.8



#95  
 Naphthalene  
 Concen: 4.574 ug/l  
 RT: 15.13 min Scan# 4153  
 Delta R.T. -0.00 min  
 Lab File: VN057481.D  
 Acq: 23 Aug 2019 19:11

Tgt Ion:128 Resp: 1311  
 Ion Ratio Lower Upper  
 128 100  
 127 14.1 10.5 15.7  
 129 4.9 8.6 13.0#





#96  
 1,2,3-Trichlorobenzene  
 Concen: 5.408 ug/l  
 RT: 15.30 min Scan# 4208  
 Delta R.T. 0.01 min  
 Lab File: VN057481.D  
 Acq: 23 Aug 2019 19:11

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 T1-S3(0)

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 60.7  | 46.7  | 140.1 |
| 145     | 18.4  | 16.8  | 50.3  |

