

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN111419\  
 Data File : VN059240.D  
 Acq On : 14 Nov 2019 17:34  
 Operator : JC/SP  
 Sample : K5842-04  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 24 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 S36-0163

Quant Time: Nov 15 06:32:57 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N110619W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Nov 07 04:00:41 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.64  | 168  | 475112   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.57  | 114  | 725450   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.40 | 117  | 658970   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.34 | 152  | 294754   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 8.00   | 65  | 281000   | 48.11 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 96.22%  |      |
| 35) Dibromofluoromethane  | 7.57   | 113 | 219206   | 50.61 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 101.22% |      |
| 50) Toluene-d8            | 10.08  | 98  | 884148   | 51.82 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 103.64% |      |
| 62) 4-Bromofluorobenzene  | 12.40  | 95  | 328757   | 53.44 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 106.88% |      |

## Target Compounds

|                              |       |     |         |         |        | Qvalue |
|------------------------------|-------|-----|---------|---------|--------|--------|
| 4) Vinyl Chloride            | 2.17  | 62  | 10277   | 1.629   | ug/l   | 96     |
| 6) Chloroethane              | 2.69  | 64  | 2238    | 0.600   | ug/l   | 98     |
| 11) Tert butyl alcohol       | 4.75  | 59  | 4018    | 3.610   | ug/l # | 72     |
| 13) Acrolein                 | 3.78  | 56  | 338     | 0.589   | ug/l # | 66     |
| 16) Acetone                  | 3.80  | 43  | 6270    | 2.064   | ug/l # | 84     |
| 19) Methyl tert-butyl Ether  | 5.01  | 73  | 3189    | 0.209   | ug/l # | 1      |
| 20) Methylene Chloride       | 4.53  | 84  | 1684    | 0.318   | ug/l   | 94     |
| 21) trans-1,2-Dichloroethene | 5.01  | 96  | 14048   | 2.953   | ug/l   | 98     |
| 27) cis-1,2-Dichloroethene   | 6.80  | 96  | 3075    | 0.557   | ug/l # | 17     |
| 29) Tetrahydrofuran          | 7.19  | 42  | 32760   | 12.881  | ug/l   | 99     |
| 30) Chloroform               | 7.63  | 83  | 2817    | 0.306   | ug/l # | 38     |
| 31) Cyclohexane              | 7.63  | 56  | 107605  | 11.835  | ug/l # | 93     |
| 36) 1,1-Dichloropropene      | 7.64  | 75  | 34547   | 5.095   | ug/l # | 49     |
| 38) Carbon Tetrachloride     | 7.64  | 117 | 43832   | 6.495   | ug/l # | 17     |
| 39) Methylcyclohexane        | 9.07  | 83  | 41422   | 5.263   | ug/l   | 95     |
| 40) Benzene                  | 8.02  | 78  | 3280473 | 160.654 | ug/l   | 99     |
| 41) Methacrylonitrile        | 7.18  | 41  | 18986   | 5.788   | ug/l # | 100    |
| 42) 1,2-Dichloroethane       | 8.02  | 62  | 26295   | 3.755   | ug/l   | 79     |
| 44) Trichloroethene          | 8.82  | 130 | 3303    | 0.658   | ug/l   | 99     |
| 48) Methyl methacrylate      | 9.26  | 41  | 2204    | 0.410   | ug/l # | 69     |
| 51) 4-Methyl-2-Pentanone     | 10.09 | 43  | 138170  | 20.305  | ug/l # | 52     |
| 52) Toluene                  | 10.14 | 92  | 2686    | 0.219   | ug/l   | 83     |
| 55) 1,1,2-Trichloroethane    | 10.53 | 97  | 1043    | 0.211   | ug/l # | 14     |
| 56) Ethyl methacrylate       | 10.42 | 69  | 768     | 1.963   | ug/l # | 1      |
| 59) 2-Hexanone               | 10.60 | 43  | 16847   | 3.226   | ug/l   | 69     |
| 65) Chlorobenzene            | 11.43 | 112 | 9016706 | 701.913 | ug/l # | 10     |
| 67) Ethyl Benzene            | 11.51 | 91  | 1756433 | 77.065  | ug/l   | 98     |
| 68) m/p-Xylenes              | 11.62 | 106 | 29388   | 3.442   | ug/l   | 99     |
| 69) o-Xylene                 | 11.95 | 106 | 17693   | 2.144   | ug/l   | 98     |
| 71) Bromoform                | 12.40 | 173 | 1964    | 0.524   | ug/l # | 1      |
| 73) Isopropylbenzene         | 12.25 | 105 | 236341  | 11.023  | ug/l   | 100    |
| 74) N-amyl acetate           | 12.15 | 43  | 7322    | 0.806   | ug/l # | 57     |
| 76) 1,2,3-Trichloropropane   | 12.40 | 75  | 158684  | 23.647  | ug/l # | 100    |
| 78) n-propylbenzene          | 12.59 | 91  | 261130  | 10.637  | ug/l   | 100    |

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 Sample : K5842-04  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 24 Sample Multiplier: 1

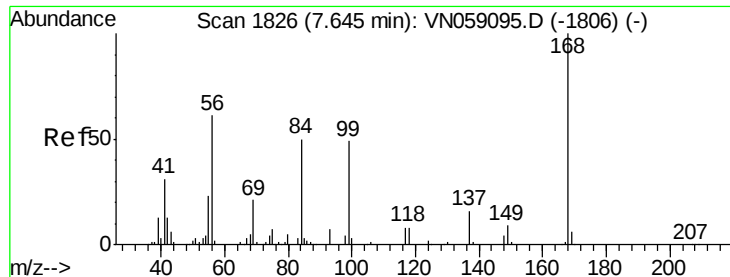
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 S36-0163

Quant Time: Nov 15 06:32:57 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N110619W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Nov 07 04:00:41 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|--------|--------|----------|
| 79) 2-Chlorotoluene            | 12.67 | 91   | 13270    | 0.871  | ug/l   | 92       |
| 80) 1,3,5-Trimethylbenzene     | 12.89 | 105  | 237607   | 13.079 | ug/l   | 74       |
| 81) trans-1,4-Dichloro-2-buten | 12.40 | 75   | 158684   | 62.458 | ug/l # | 14       |
| 82) 4-Chlorotoluene            | 12.67 | 91   | 13270    | 0.869  | ug/l   | 94       |
| 83) tert-Butylbenzene          | 12.99 | 119  | 14755    | 0.940  | ug/l   | 94       |
| 84) 1,2,4-Trimethylbenzene     | 13.04 | 105  | 19416    | 1.105  | ug/l   | 97       |
| 85) sec-Butylbenzene           | 13.17 | 105  | 49025    | 2.403  | ug/l   | 81       |
| 86) p-Isopropyltoluene         | 13.24 | 119  | 21968    | 1.219  | ug/l   | 97       |
| 87) 1,3-Dichlorobenzene        | 13.28 | 146  | 74031    | 8.026  | ug/l   | 97       |
| 88) 1,4-Dichlorobenzene        | 13.36 | 146  | 560378   | 60.718 | ug/l   | 99       |
| 89) n-Butylbenzene             | 13.62 | 91   | 8352     | 0.530  | ug/l # | 66       |
| 90) Hexachloroethane           | 13.95 | 117  | 33685    | 9.311  | ug/l # | 8        |
| 93) 1,2,4-Trichlorobenzene     | 14.91 | 180  | 62       | 3.057  | ug/l # | 12       |
| 95) Naphthalene                | 15.13 | 128  | 194940   | 15.030 | ug/l   | 99       |

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





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. -0.00 min

Lab File: VN059240.D

Acq: 14 Nov 2019 17:34

Instrument :

MSVOA\_N

ClientSampleId :

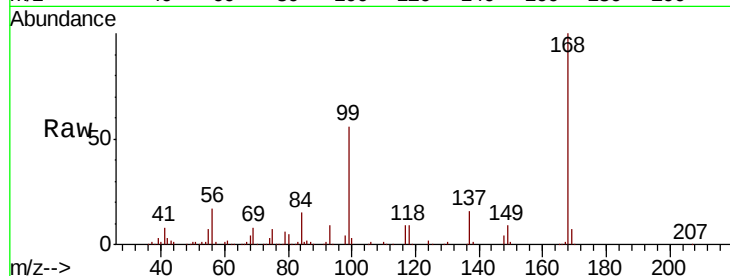
S36-0163

Tot Ion:168 Resp: 475112

Ion Ratio Lower Upper

168 100

99 55.8 45.7 68.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.64

200000

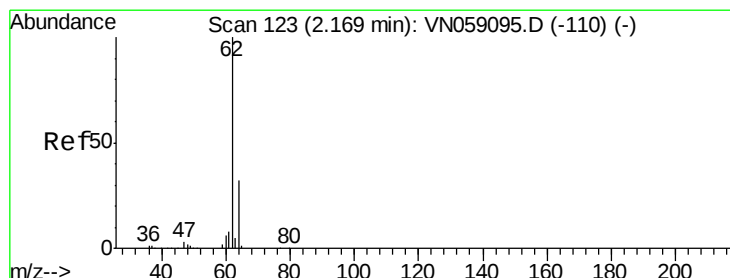
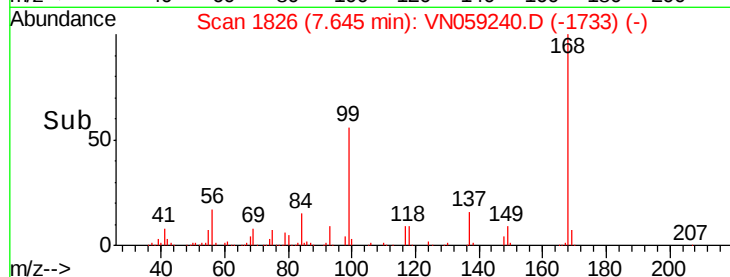
150000

100000

50000

0

Time--> 7.50 7.60 7.70



#4

Vinyl Chloride

Concen: 1.629 ug/l

RT: 2.17 min Scan# 123

Delta R.T. -0.00 min

Lab File: VN059240.D

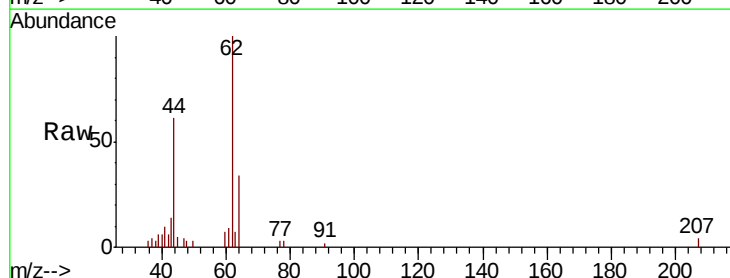
Acq: 14 Nov 2019 17:34

Tgt Ion: 62 Resp: 10277

Ion Ratio Lower Upper

62 100

64 34.1 25.4 38.2



Abundance Ion 61.90 (61.60 to 62.60): VNO

Ion 63.90 (63.60 to 64.60): VNO

2.17

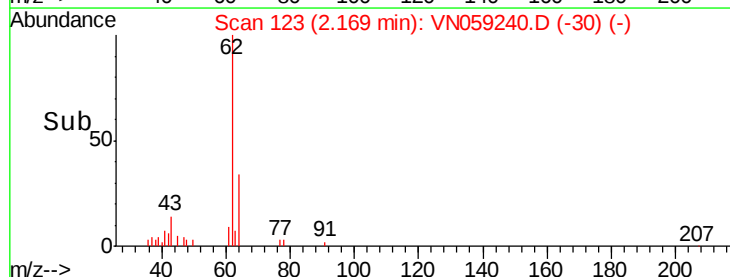
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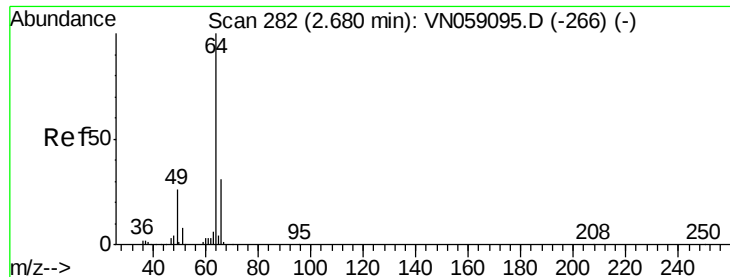
4000

2000

0

Time--> 2.15 2.20





#6

Chloroethane

Concen: 0.600 ug/l

RT: 2.69 min Scan# 285

Delta R.T. 0.01 min

Lab File: VN059240.D

Acq: 14 Nov 2019 17:34

Instrument :

MSVOA\_N

ClientSampled :

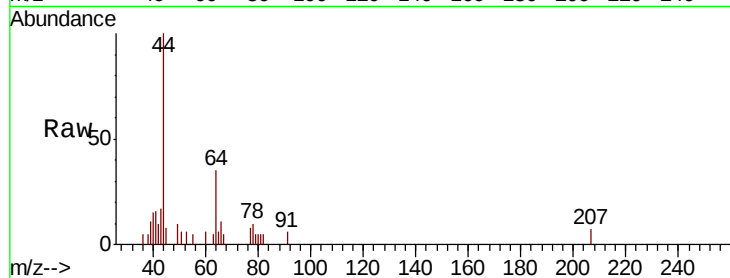
S36-0163

Tot Ion: 64 Resp: 2238

Ion Ratio Lower Upper

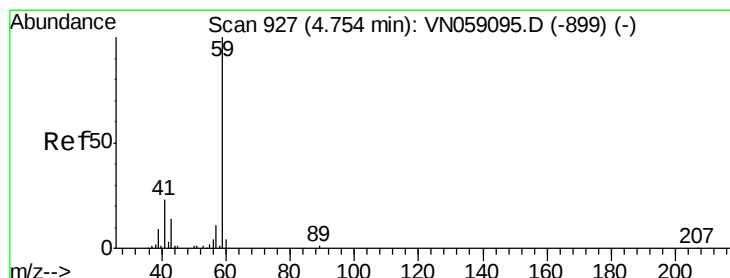
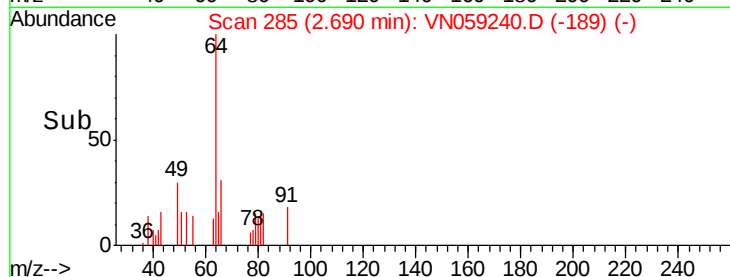
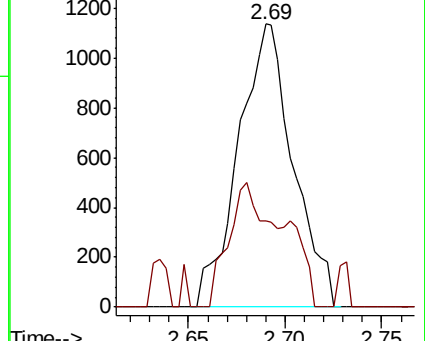
64 100

66 30.6 25.2 37.8



Abundance Ion 63.90 (63.60 to 64.60): VN0

Ion 65.90 (65.60 to 66.60): VN0



#11

Tert butyl alcohol

Concen: 3.610 ug/l

RT: 4.75 min Scan# 925

Delta R.T. -0.01 min

Lab File: VN059240.D

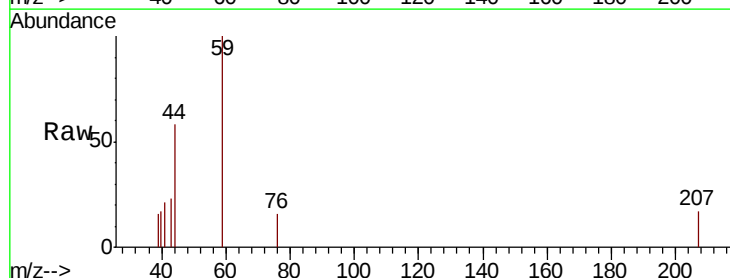
Acq: 14 Nov 2019 17:34

Tgt Ion: 59 Resp: 4018

Ion Ratio Lower Upper

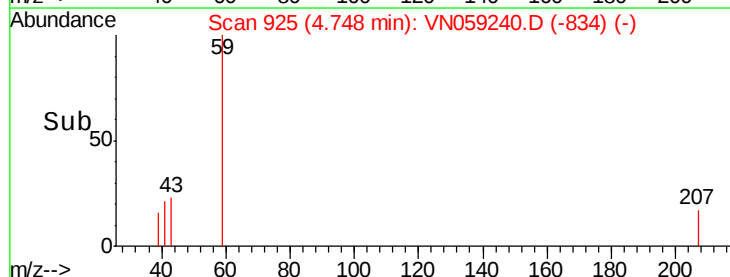
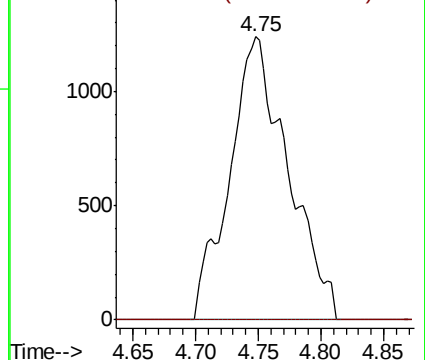
59 100

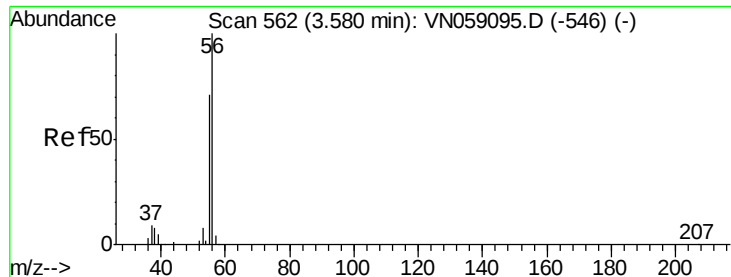
57 0.0 8.3 12.5#



Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 57.00 (56.70 to 57.70): VN0





#13

Acrolein

Concen: 0.589 ug/l

RT: 3.78 min Scan# 623

Delta R.T. 0.20 min

Lab File: VN059240.D

Acq: 14 Nov 2019 17:34

Instrument :

MSVOA\_N

ClientSampled :

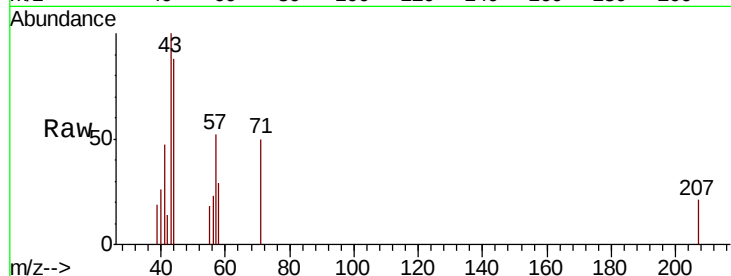
S36-0163

Tot Ion: 56 Resp: 338

Ion Ratio Lower Upper

56 100

55 42.3 56.4 84.6#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

3.78

250

200

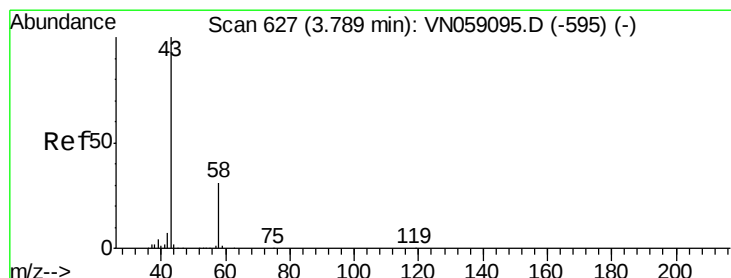
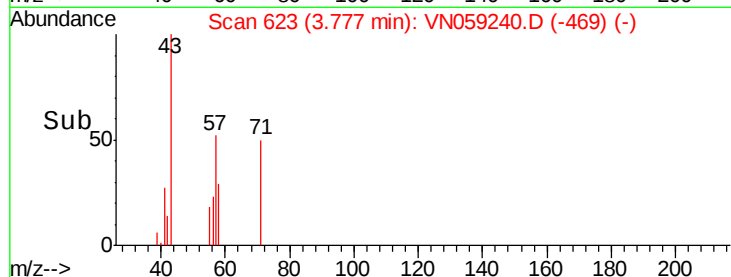
150

100

50

0

Time--> 3.74 3.76 3.78 3.80



#16

Acetone

Concen: 2.064 ug/l

RT: 3.80 min Scan# 630

Delta R.T. 0.01 min

Lab File: VN059240.D

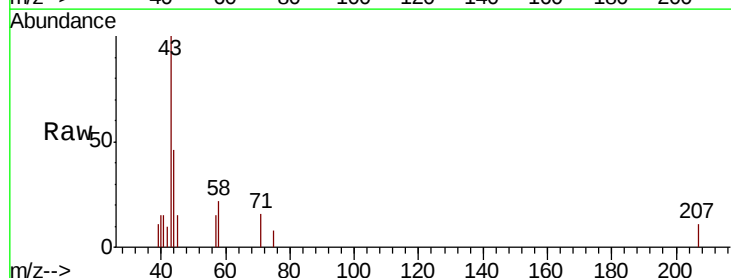
Acq: 14 Nov 2019 17:34

Tgt Ion: 43 Resp: 6270

Ion Ratio Lower Upper

43 100

58 22.4 24.9 37.3#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

3.80

2000

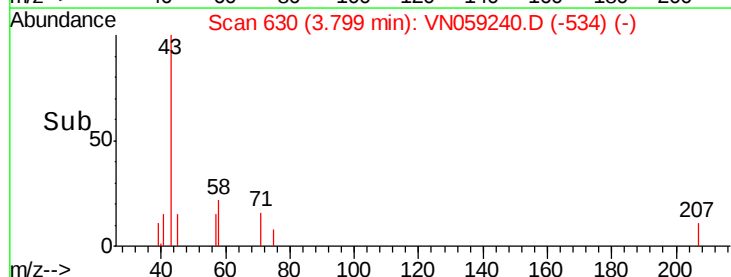
1500

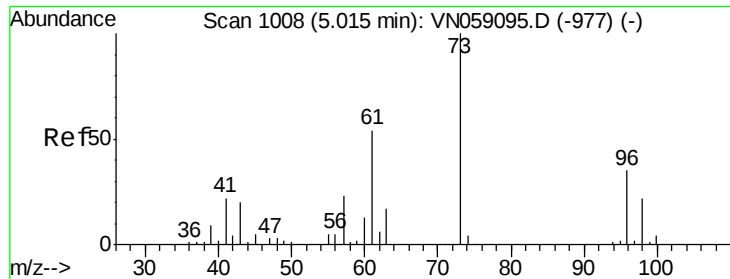
1000

500

0

Time--> 3.70 3.75 3.80 3.85

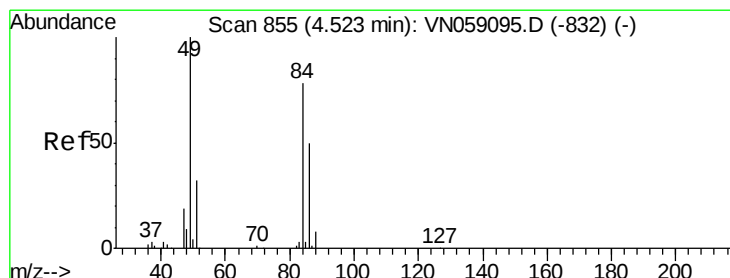
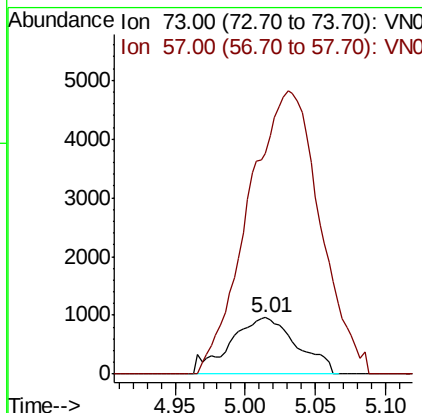
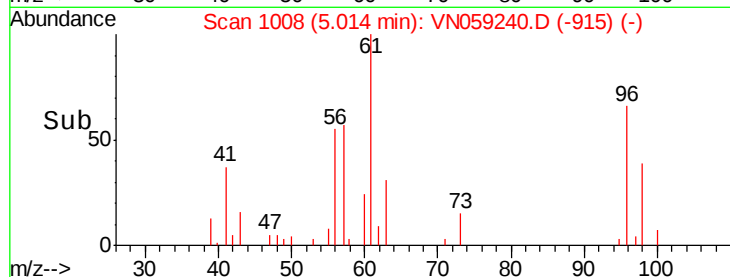
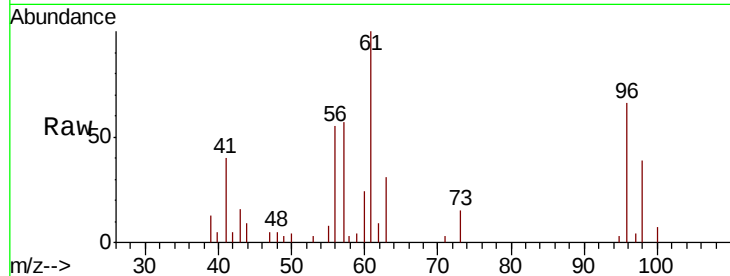




#19  
Methvl tert-butvl Ether  
Concen: 0.209 ug/l  
RT: 5.01 min Scan# 1008  
Delta R.T. -0.00 min  
Lab File: VN059240.D  
Acq: 14 Nov 2019 17:34

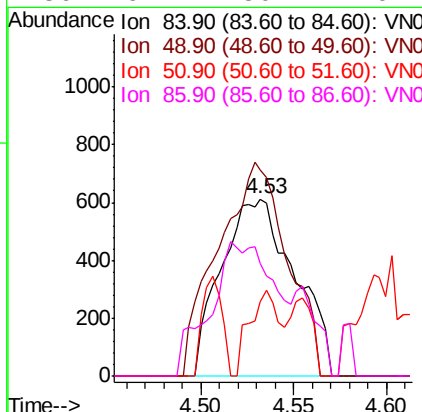
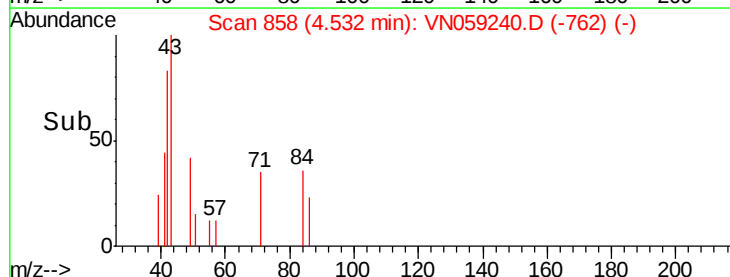
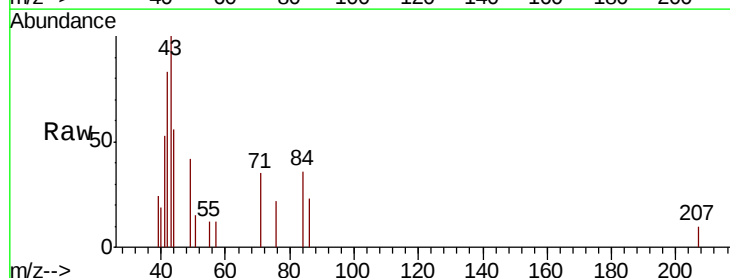
Instrument :  
MSVOA\_N  
ClientSampled :  
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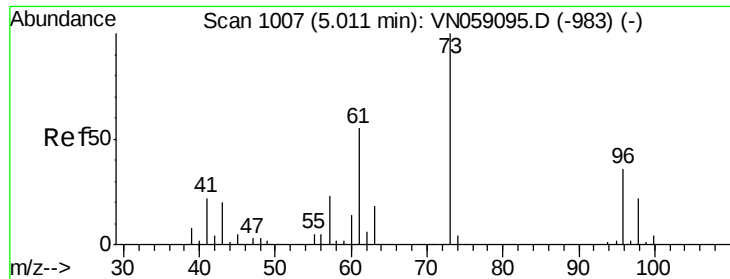
Tot Ion: 73 Resp: 3189  
Ion Ratio Lower Upper  
73 100  
57 390.1 18.4 27.6#



#20  
Methylene Chloride  
Concen: 0.318 ug/l  
RT: 4.53 min Scan# 858  
Delta R.T. 0.01 min  
Lab File: VN059240.D  
Acq: 14 Nov 2019 17:34

Tgt Ion: 84 Resp: 1684  
Ion Ratio Lower Upper  
84 100  
49 116.5 102.0 153.0  
51 41.7 32.2 48.2  
86 64.2 50.7 76.1

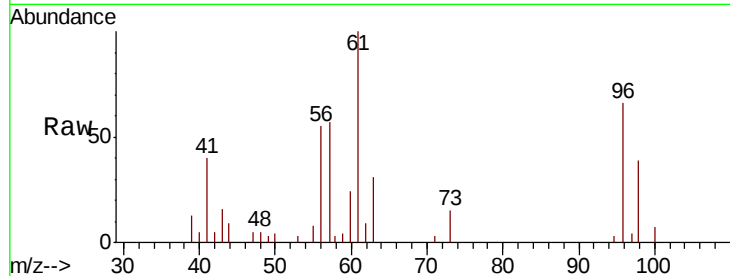




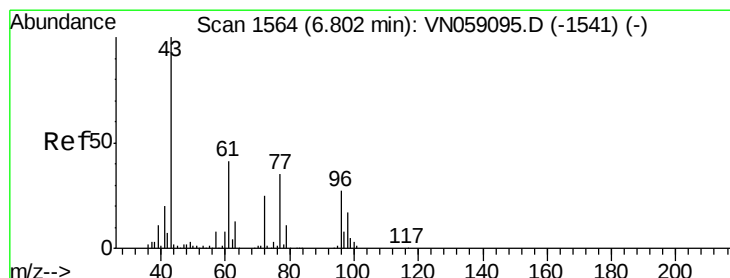
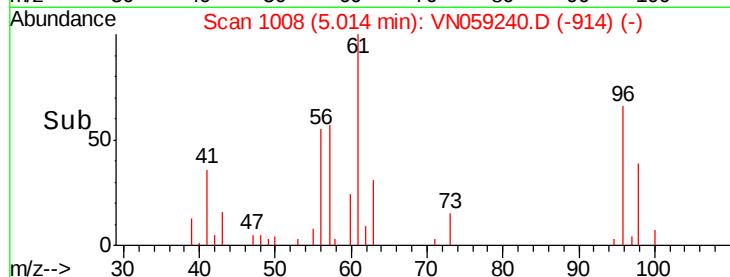
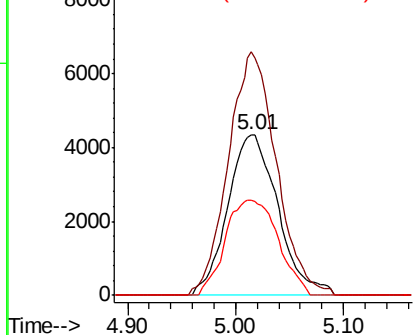
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trans-1,2-Dichloroethene  
Concen: 2.953 ug/l  
RT: 5.01 min Scan# 1008  
Delta R.T. 0.00 min  
Lab File: VN059240.D  
Acq: 14 Nov 2019 17:34

Instrument :  
MSVOA\_N  
ClientSampled :  
S36-0163

Tot Ion: 96 Resp: 14048  
Ion Ratio Lower Upper  
96 100  
61 151.3 122.6 183.8  
98 59.5 50.3 75.5

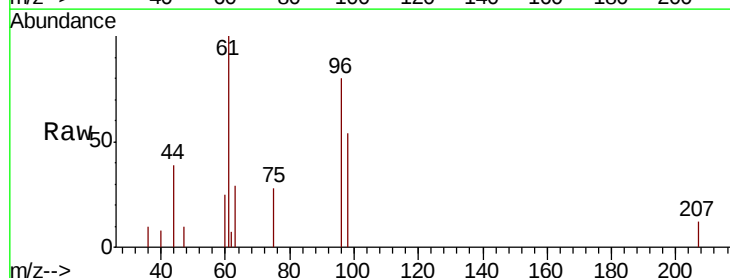


Abundance Ion 95.90 (95.60 to 96.60): VN0  
Ion 60.90 (60.60 to 61.60): VN0  
Ion 97.90 (97.60 to 98.60): VN0

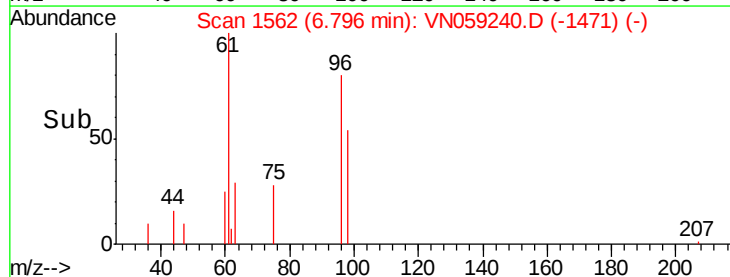
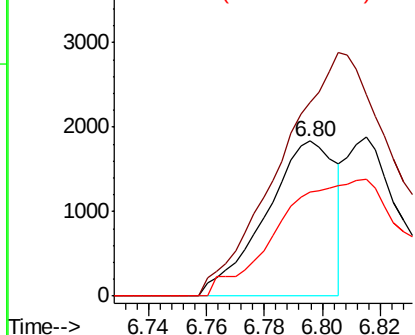


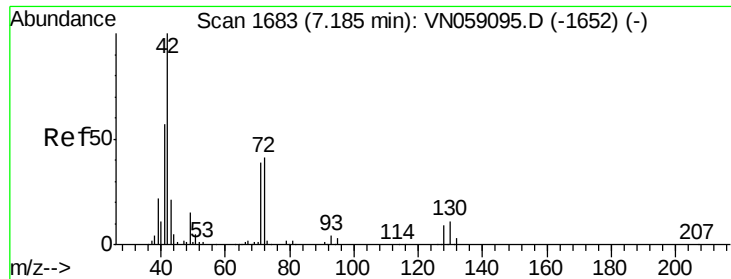
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cis-1,2-Dichloroethene  
Concen: 0.557 ug/l  
RT: 6.80 min Scan# 1562  
Delta R.T. -0.01 min  
Lab File: VN059240.D  
Acq: 14 Nov 2019 17:34

Tgt Ion: 96 Resp: 3075  
Ion Ratio Lower Upper  
96 100  
61 261.0 0.0 311.6  
98 134.7 0.0 129.8#



Abundance Ion 95.90 (95.60 to 96.60): VN0  
Ion 60.90 (60.60 to 61.60): VN0  
Ion 97.90 (97.60 to 98.60): VN0





#29

Tetrahydrofuran

Concen: 12.881 ug/l

RT: 7.19 min Scan# 1684

Delta R.T. 0.00 min

Lab File: VN059240.D

Acq: 14 Nov 2019 17:34

Instrument :

MSVOA\_N

ClientSampled :

S36-0163

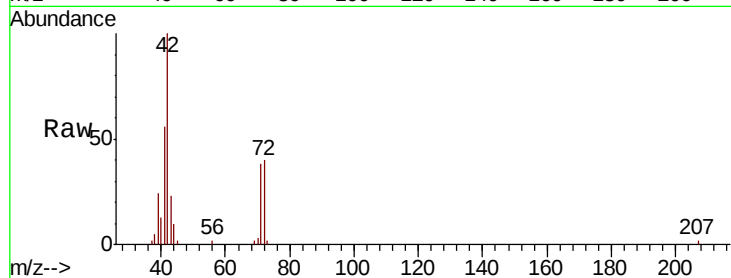
Tot Ion: 42 Resp: 32760

Ion Ratio Lower Upper

42 100

72 41.6 33.1 49.7

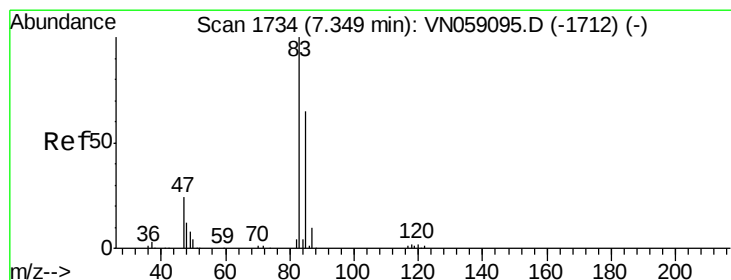
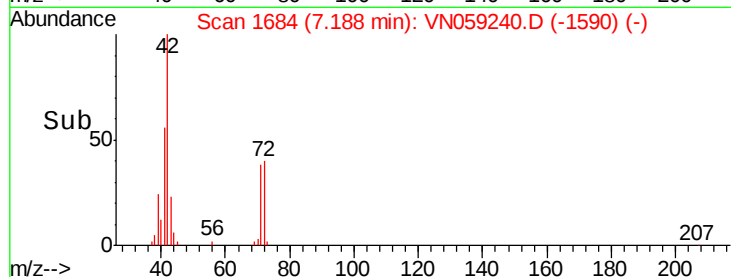
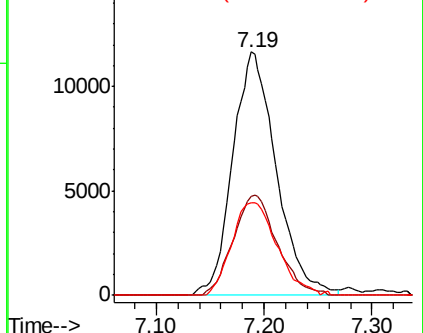
71 39.5 30.9 46.3



Abundance Ion 42.00 (41.70 to 42.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

Ion 71.00 (70.70 to 71.70): VN0



#30

Chloroform

Concen: 0.306 ug/l

RT: 7.63 min Scan# 1822

Delta R.T. 0.28 min

Lab File: VN059240.D

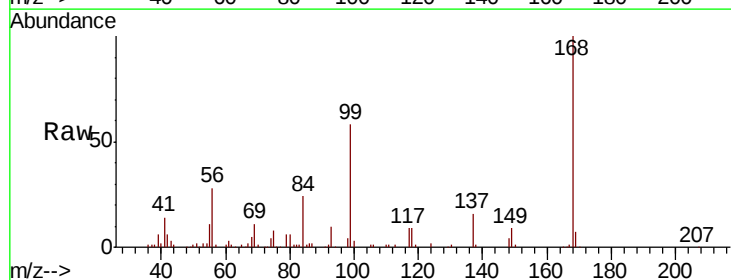
Acq: 14 Nov 2019 17:34

Tgt Ion: 83 Resp: 2817

Ion Ratio Lower Upper

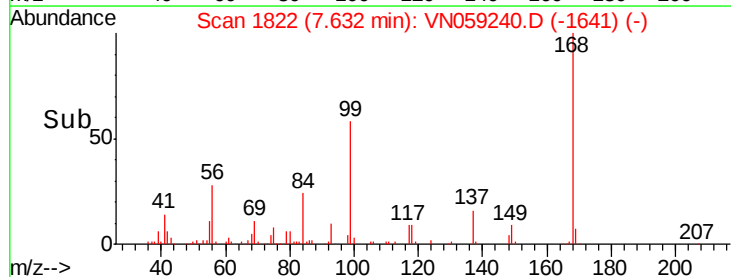
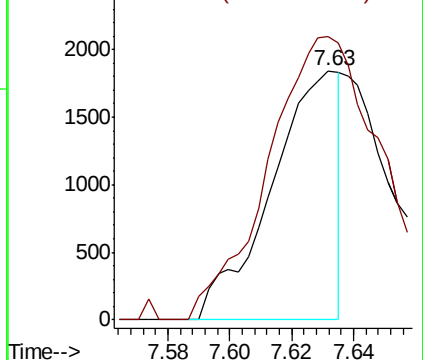
83 100

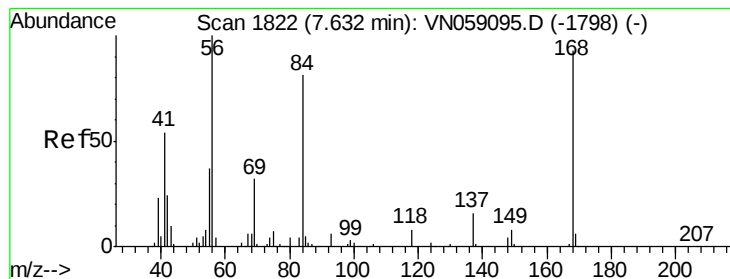
85 113.7 51.8 77.8#



Abundance Ion 82.90 (82.60 to 83.60): VN0

Ion 84.90 (84.60 to 85.60): VN0





#31

Cyclohexane

Concen: 11.835 ug/l

RT: 7.63 min Scan# 1823

Delta R.T. 0.00 min

Lab File: VN059240.D

Acq: 14 Nov 2019 17:34

Instrument :

MSVOA\_N

ClientSampled :

S36-0163

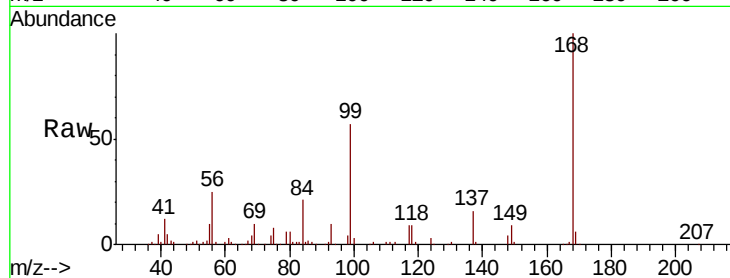
Tot Ion: 56 Resp: 107605

Ion Ratio Lower Upper

56 100

69 39.6 25.8 38.8#

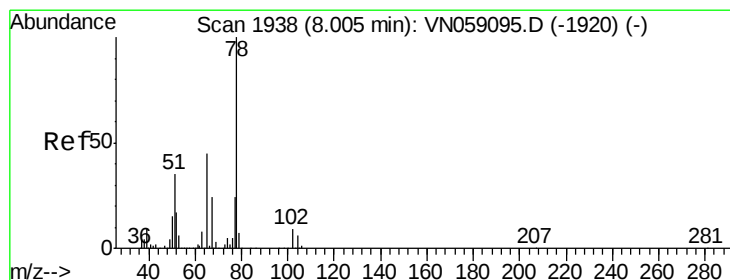
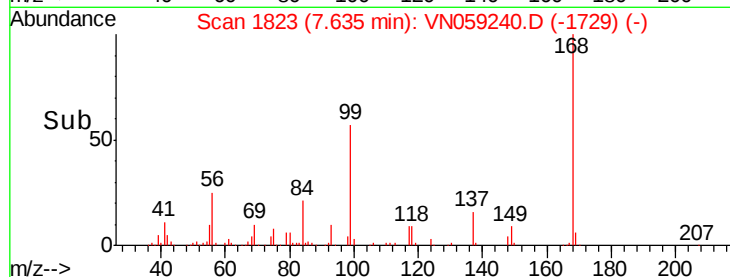
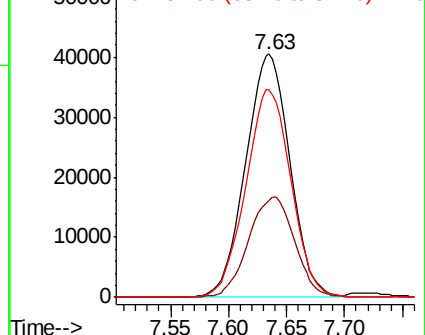
84 85.2 65.0 97.4



Abundance Ion 56.00 (55.70 to 56.70): VN059240.D (-1798) (-)

Ion 69.00 (68.70 to 69.70): VN059240.D (-1798) (-)

Ion 84.00 (83.70 to 84.70): VN059240.D (-1798) (-)



#33

1,2-Dichloroethane-d4

Concen: 48.114 ug/l

RT: 8.00 min Scan# 1938

Delta R.T. -0.00 min

Lab File: VN059240.D

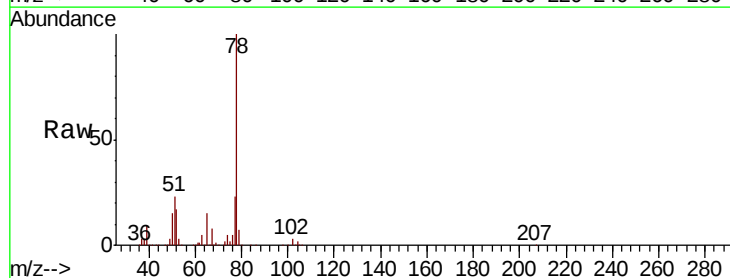
Acq: 14 Nov 2019 17:34

Tgt Ion: 65 Resp: 281000

Ion Ratio Lower Upper

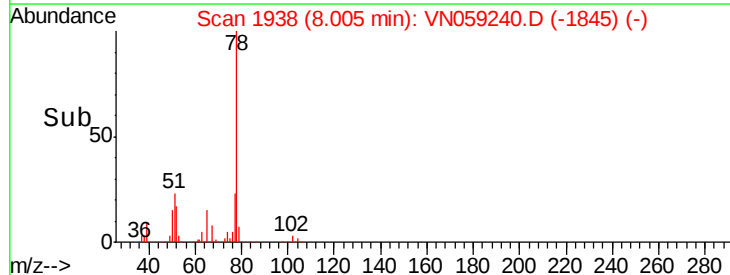
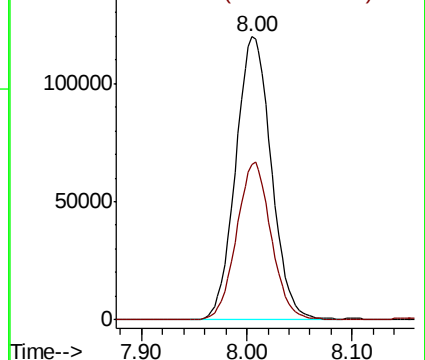
65 100

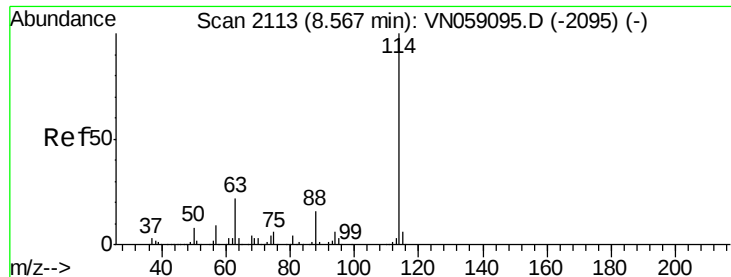
67 54.3 0.0 107.4



Abundance Ion 64.90 (64.60 to 65.60): VN059240.D (-1845) (-)

Ion 66.90 (66.60 to 67.60): VN059240.D (-1845) (-)





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.57 min Scan# 2113

Delta R.T. -0.00 min

Lab File: VN059240.D

Acq: 14 Nov 2019 17:34

Instrument :

MSVOA\_N

ClientSampleId :

S36-0163

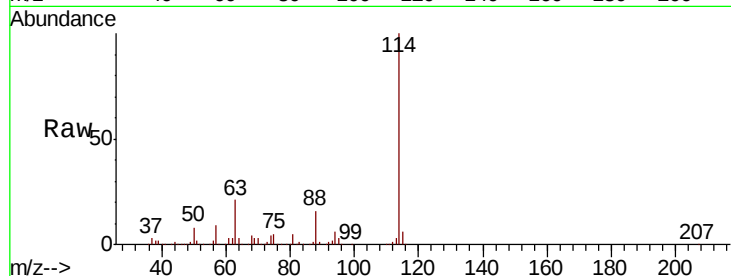
Tot Ion:114 Resp: 725450

Ion Ratio Lower Upper

114 100

63 21.3 0.0 43.4

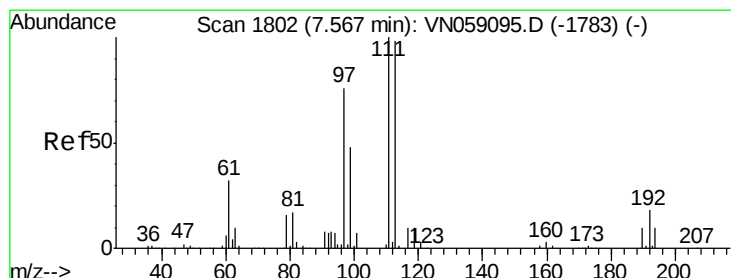
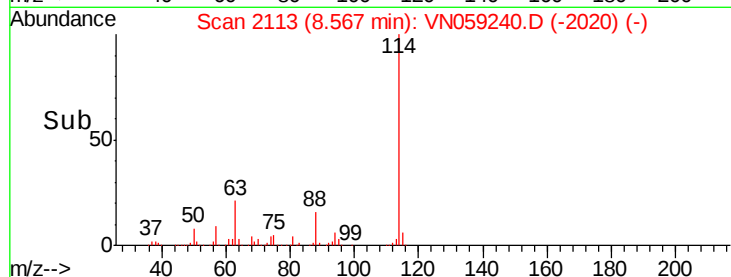
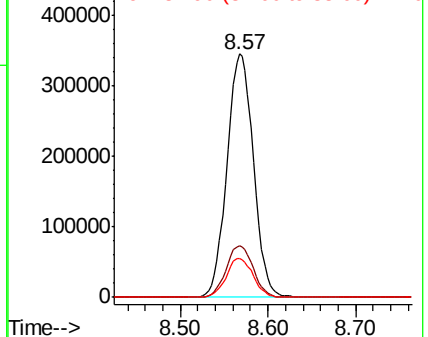
88 16.1 0.0 32.2



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN

Ion 87.90 (87.60 to 88.60): VN



#35

Dibromofluoromethane

Concen: 50.606 ug/l

RT: 7.57 min Scan# 1802

Delta R.T. -0.00 min

Lab File: VN059240.D

Acq: 14 Nov 2019 17:34

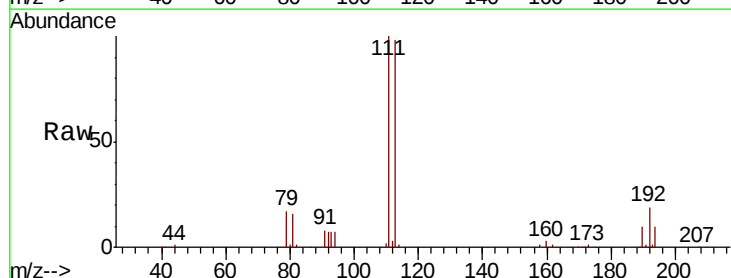
Tgt Ion:113 Resp: 219206

Ion Ratio Lower Upper

113 100

111 102.4 82.8 124.2

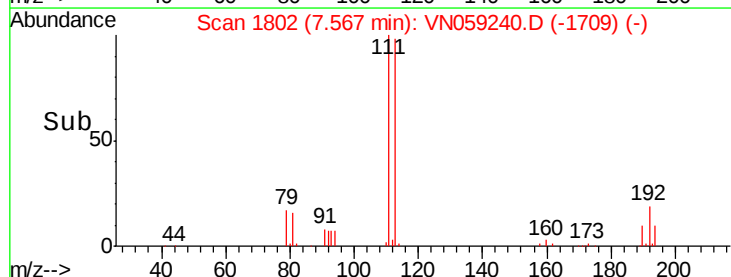
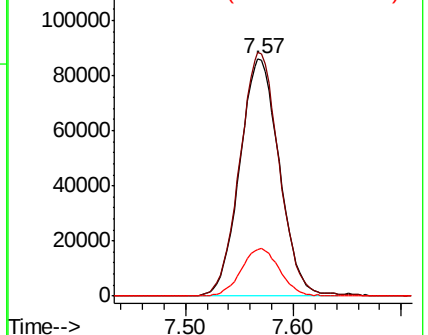
192 19.4 16.1 24.1

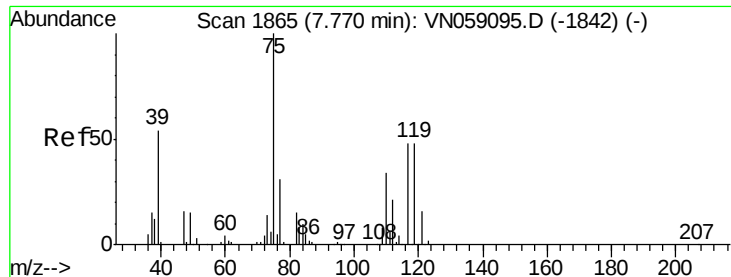


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

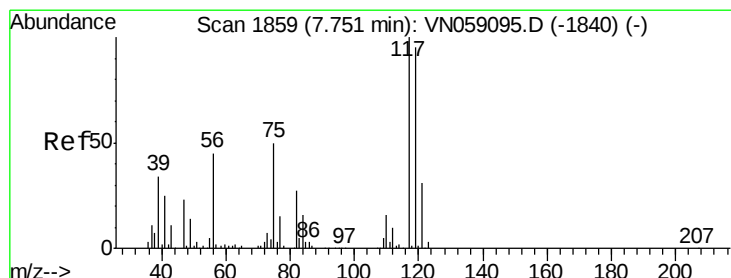
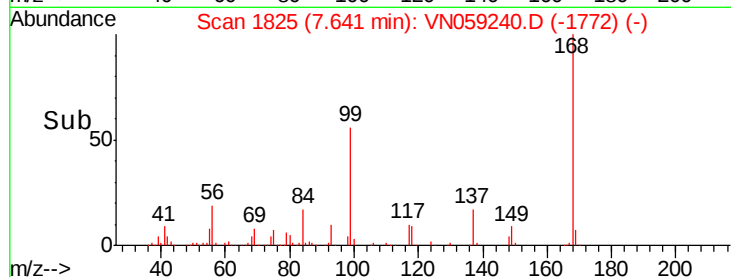
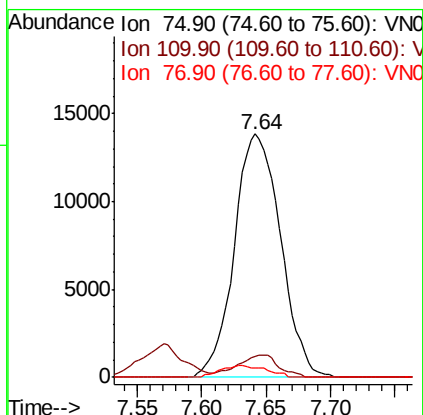
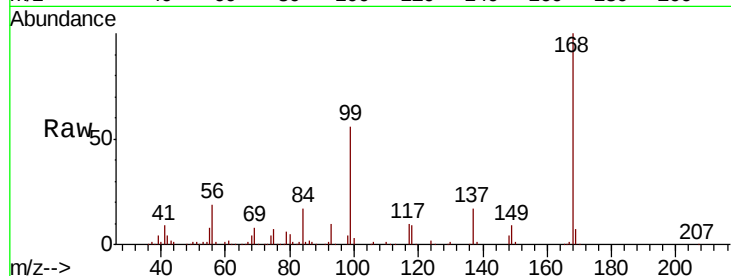




#36  
 1,1-Dichloropropene  
 Concen: 5.095 ug/l  
 RT: 7.64 min Scan# 1825  
 Delta R.T. -0.13 min  
 Lab File: VN059240.D  
 Acq: 14 Nov 2019 17:34

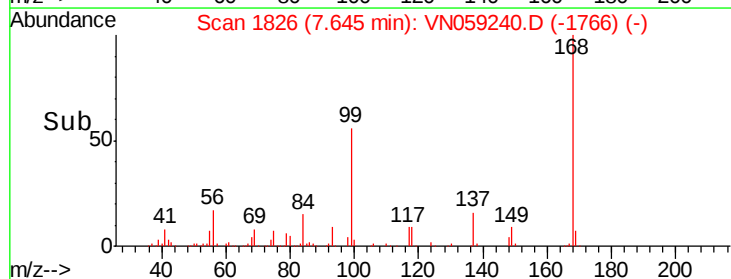
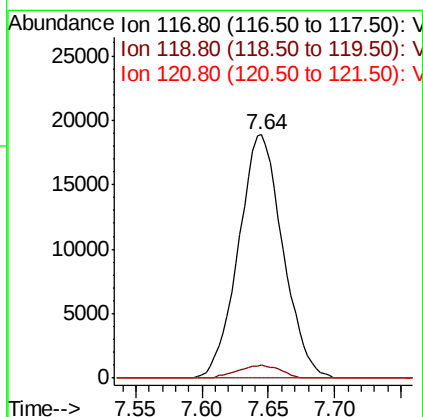
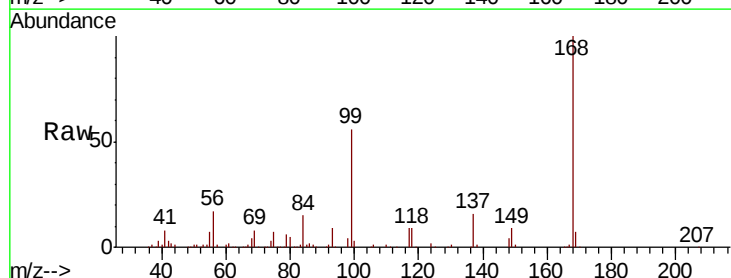
Instrument :  
 MSVOA\_N  
 ClientSampled :  
 S36-0163

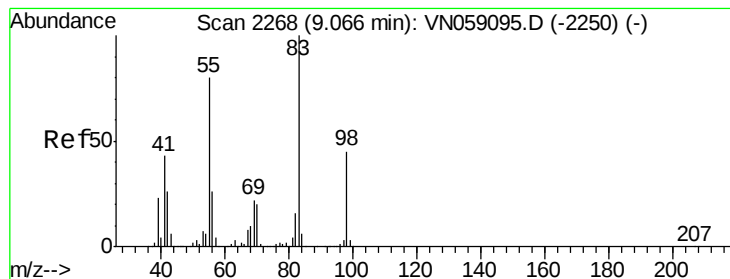
| Tot Ion   | 75    | Resp  | 34547 |
|-----------|-------|-------|-------|
| Ion Ratio | Lower | Upper |       |
| 75        | 100   |       |       |
| 110       | 8.1   | 17.1  | 51.2# |
| 77        | 0.0   | 24.8  | 37.2# |



#38  
 Carbon Tetrachloride  
 Concen: 6.495 ug/l  
 RT: 7.64 min Scan# 1826  
 Delta R.T. -0.11 min  
 Lab File: VN059240.D  
 Acq: 14 Nov 2019 17:34

| Tgt Ion   | 117   | Resp  | 43832  |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 117       | 100   |       |        |
| 119       | 5.2   | 75.6  | 113.4# |
| 121       | 0.0   | 24.6  | 36.8#  |

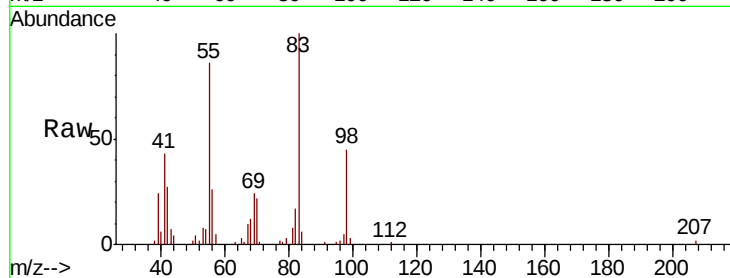




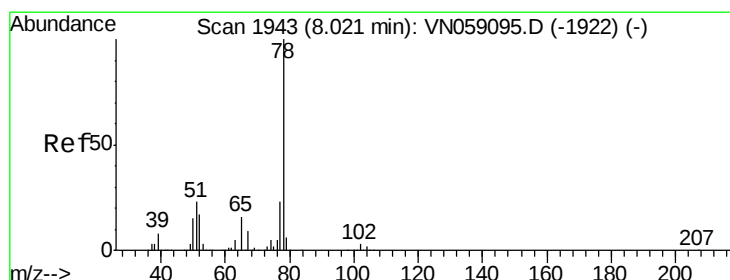
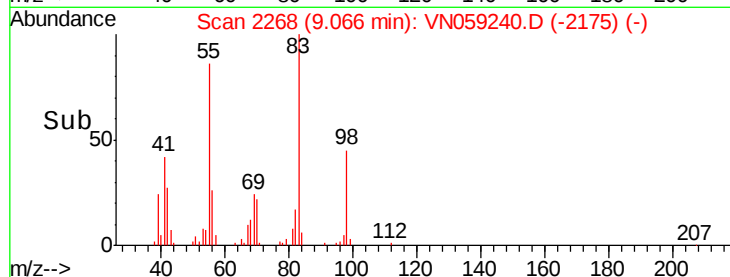
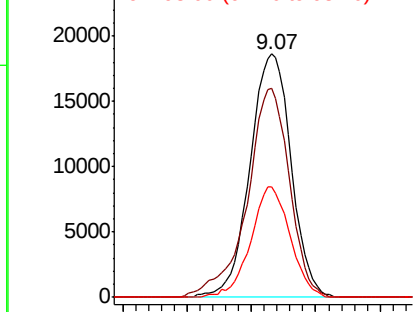
#39  
Methvlcvclohexane  
Concen: 5.263 ug/l  
RT: 9.07 min Scan# 2268  
Delta R.T. -0.00 min  
Lab File: VN059240.D  
Acq: 14 Nov 2019 17:34

Instrument :  
MSVOA\_N  
ClientSampleId :  
S36-0163

Tot Ion: 83 Resp: 41422  
Ion Ratio Lower Upper  
83 100  
55 85.7 63.9 95.9  
98 45.3 35.6 53.4

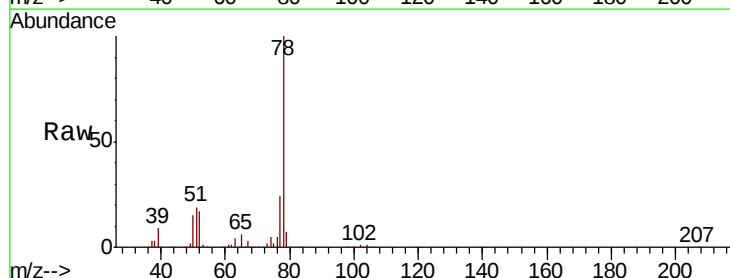


Abundance Ion 83.00 (82.70 to 83.70): VNC  
Ion 55.00 (54.70 to 55.70): VNC  
Ion 98.00 (97.70 to 98.70): VNC

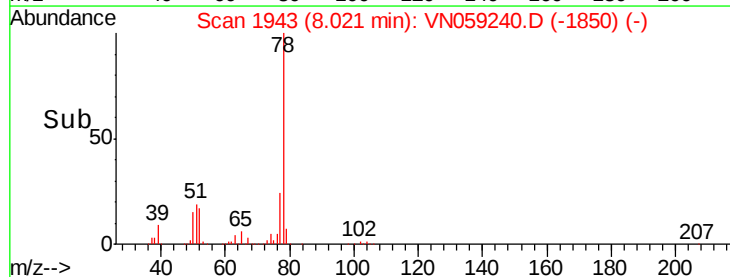
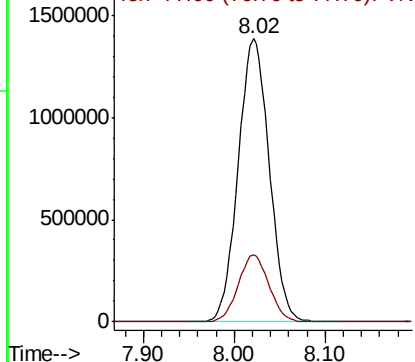


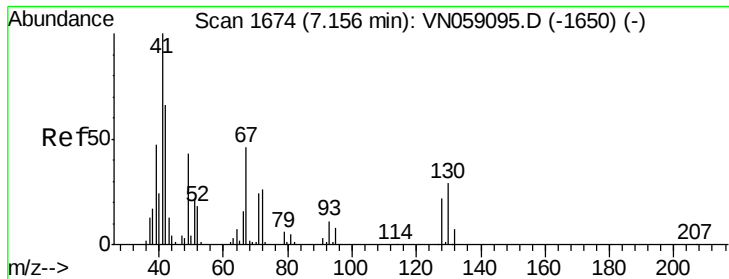
#40  
Benzene  
Concen: 160.654 ug/l  
RT: 8.02 min Scan# 1943  
Delta R.T. -0.00 min  
Lab File: VN059240.D  
Acq: 14 Nov 2019 17:34

Tgt Ion: 78 Resp: 3280473  
Ion Ratio Lower Upper  
78 100  
77 23.9 18.8 28.2



Abundance Ion 78.00 (77.70 to 78.70): VNC  
Ion 77.00 (76.70 to 77.70): VNC

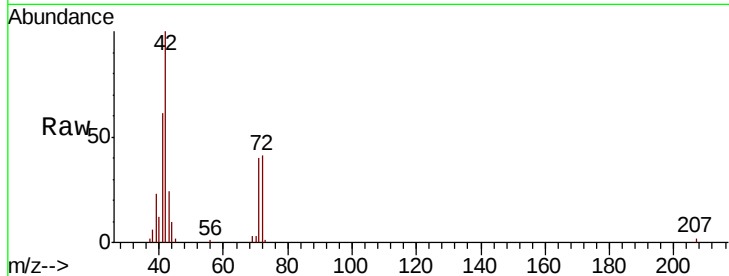




#41  
Methacrylonitrile  
Concen: 5.788 ug/l  
RT: 7.18 min Scan# 1683  
Delta R.T. 0.03 min  
Lab File: VN059240.D  
Acq: 14 Nov 2019 17:34

Instrument :  
MSVOA\_N  
ClientSampled :  
S36-0163

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 41    | Resp: | 18986 |
| Ion      | Ratio | Lower | Upper |
| 41       | 100   |       |       |
| 39       | 42.3  | 0.0   | 0.0#  |
| 67       | 0.0   | 0.0   | 0.0   |
| 52       | 0.0   | 0.0   | 0.0   |



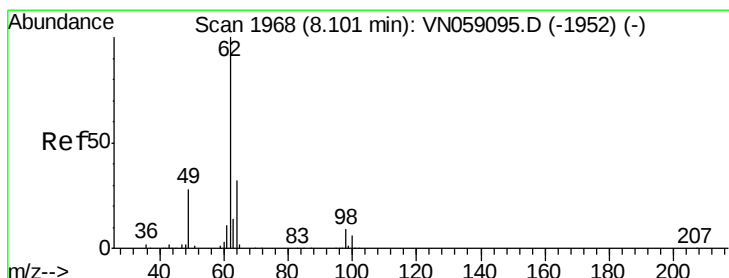
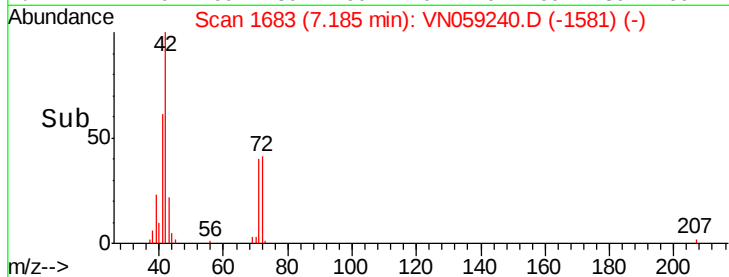
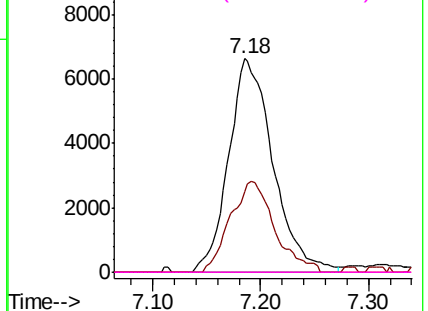
Abundance

Ion 41.00 (40.70 to 41.70): VNO

Ion 39.00 (38.70 to 39.70): VNO

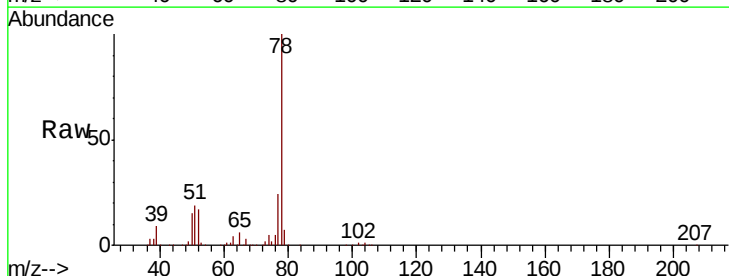
Ion 67.00 (66.70 to 67.70): VNO

Ion 52.00 (51.70 to 52.70): VNO



#42  
1,2-Dichloroethane  
Concen: 3.755 ug/l  
RT: 8.02 min Scan# 1943  
Delta R.T. -0.08 min  
Lab File: VN059240.D  
Acq: 14 Nov 2019 17:34

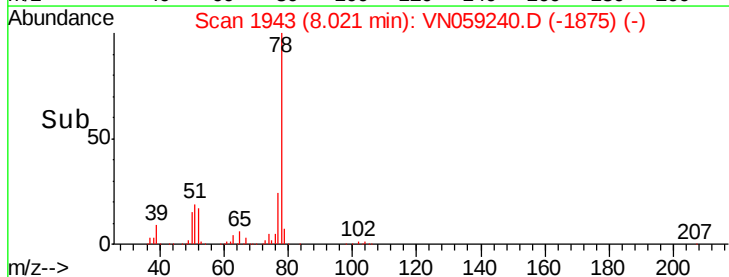
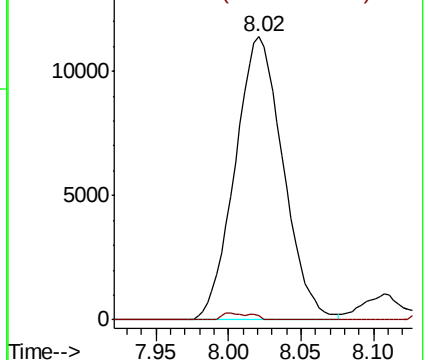
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 62    | Resp: | 26295 |
| Ion      | Ratio | Lower | Upper |
| 62       | 100   |       |       |
| 98       | 1.4   | 0.0   | 17.8  |

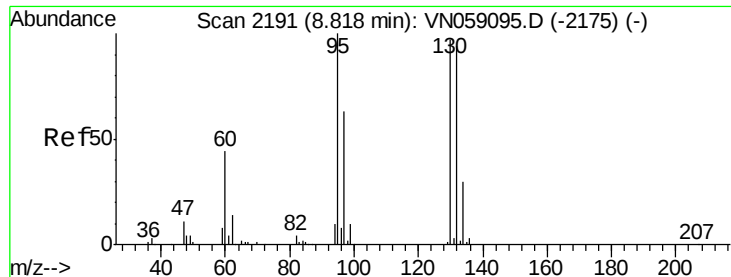


Abundance

Ion 61.90 (61.60 to 62.60): VNO

Ion 97.90 (97.60 to 98.60): VNO





#44

Trichloroethene

Concen: 0.658 ug/l

RT: 8.82 min Scan# 2193

Delta R.T. 0.01 min

Lab File: VN059240.D

Acq: 14 Nov 2019 17:34

Instrument :

MSVOA\_N

ClientSampleId :

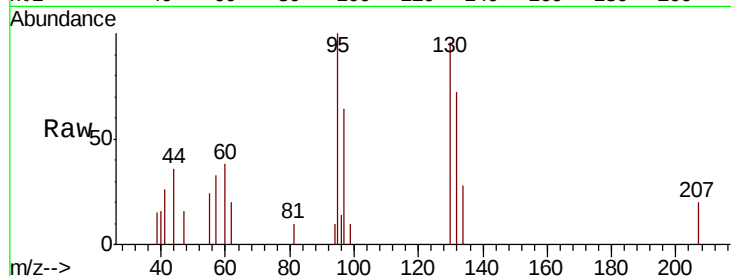
S36-0163

Tot Ion:130 Resp: 3303

Ion Ratio Lower Upper

130 100

95 104.5 0.0 206.4



Abundance Ion 129.80 (129.50 to 130.50): VN059095.D (-2175) (-)

Ion 94.90 (94.60 to 95.60): VN059095.D (-2175) (-)

8.82

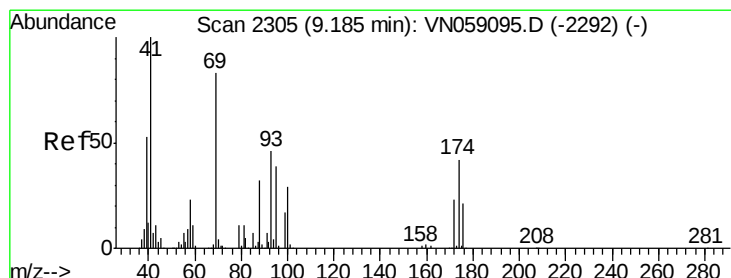
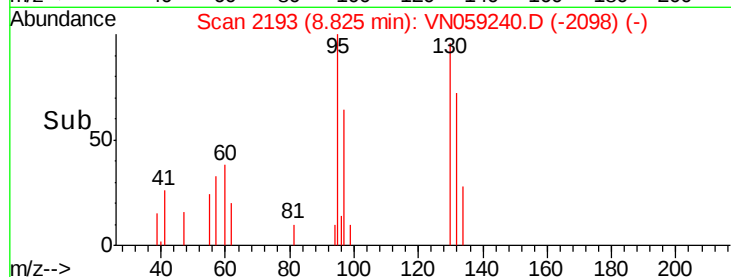
1500

1000

500

0

Time--> 8.75 8.80 8.85



#48

Methyl methacrylate

Concen: 0.410 ug/l

RT: 9.26 min Scan# 2327

Delta R.T. 0.07 min

Lab File: VN059240.D

Acq: 14 Nov 2019 17:34

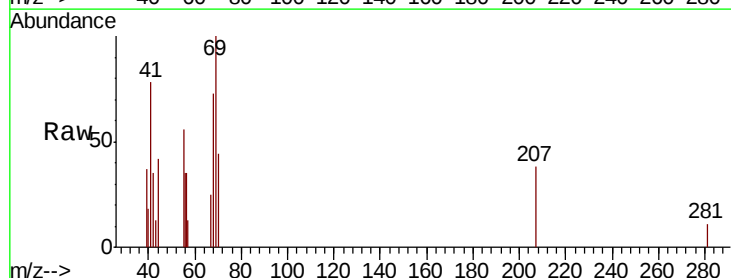
Tgt Ion: 41 Resp: 2204

Ion Ratio Lower Upper

41 100

69 125.9 67.3 100.9#

39 48.3 43.3 64.9



Abundance Ion 41.00 (40.70 to 41.70): VN059095.D (-2292) (-)

Ion 69.00 (68.70 to 69.70): VN059095.D (-2292) (-)

Ion 39.00 (38.70 to 39.70): VN059095.D (-2292) (-)

2000

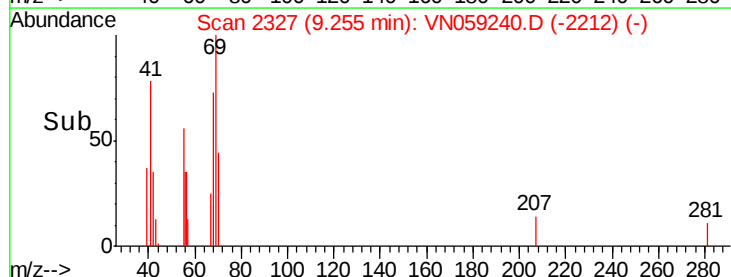
1500

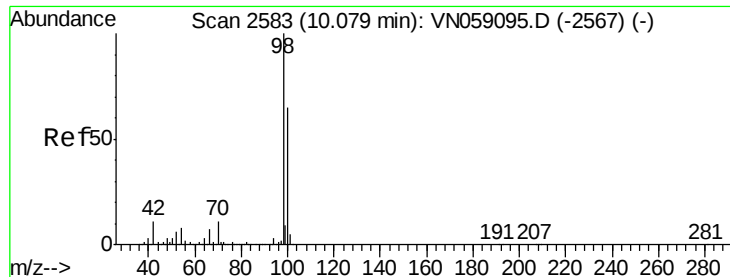
1000

500

0

Time--> 9.20 9.25 9.30





#50

Toluene-d8

Concen: 51.820 ug/l

RT: 10.08 min Scan# 2583

Delta R.T. -0.00 min

Lab File: VN059240.D

Acq: 14 Nov 2019 17:34

Instrument :

MSVOA\_N

ClientSampled :

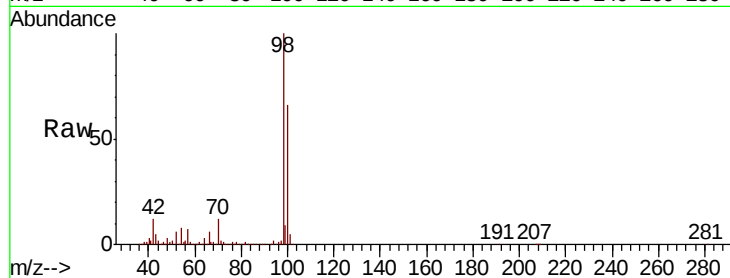
S36-0163

Tot Ion: 98 Resp: 884148

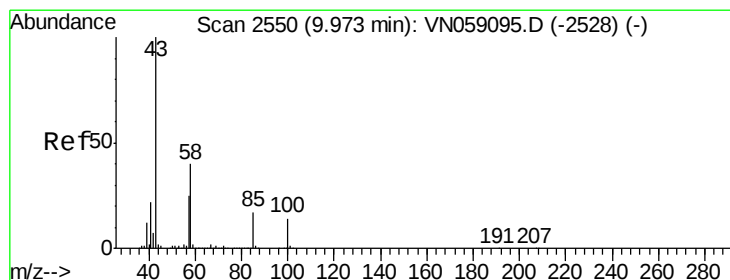
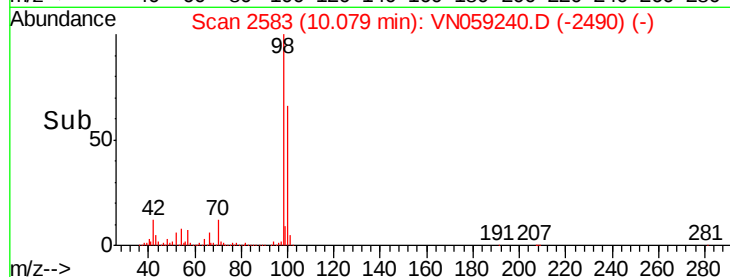
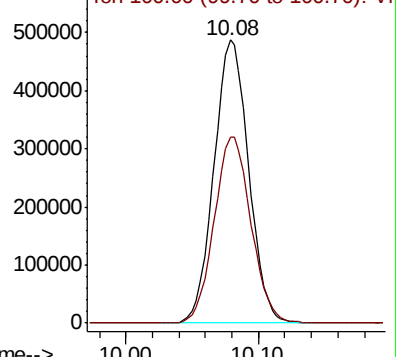
Ion Ratio Lower Upper

98 100

100 69.9 52.2 78.2



Abundance Ion 98.00 (97.70 to 98.70): VN059095.D (-2567) (-)



#51

4-Methyl-2-Pentanone

Concen: 20.305 ug/l

RT: 10.09 min Scan# 2588

Delta R.T. 0.12 min

Lab File: VN059240.D

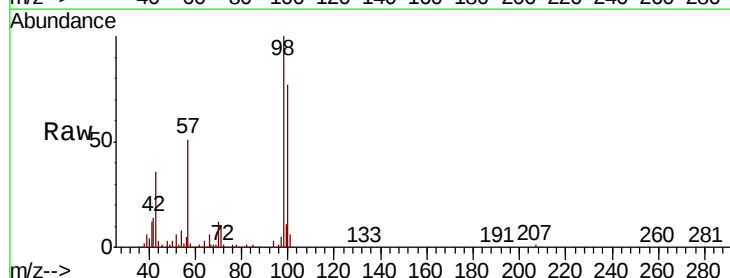
Acq: 14 Nov 2019 17:34

Tgt Ion: 43 Resp: 138170

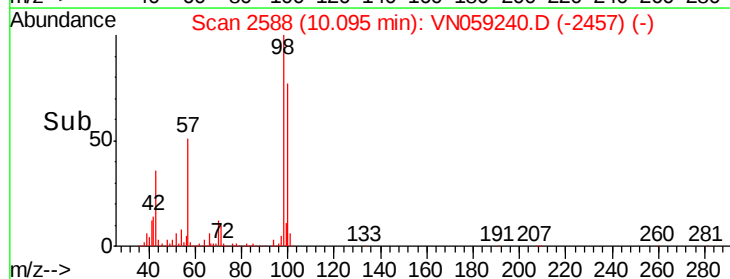
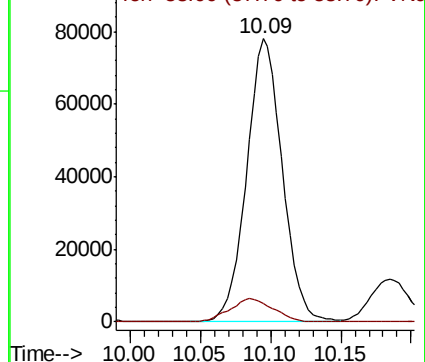
Ion Ratio Lower Upper

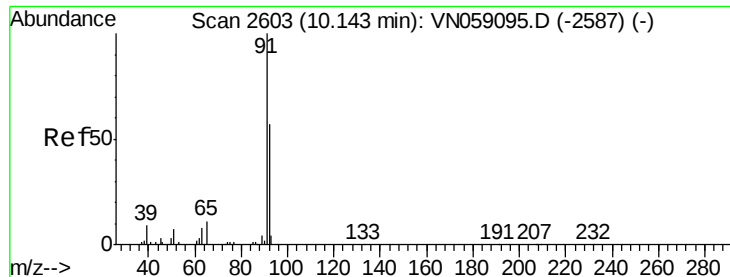
43 100

58 9.9 31.5 47.3#



Abundance Ion 43.00 (42.70 to 43.70): VN059095.D (-2528) (-)





#52

Toluene

Concen: 0.219 ug/l

RT: 10.14 min Scan# 2603

Delta R.T. -0.00 min

Lab File: VN059240.D

Acq: 14 Nov 2019 17:34

Instrument :

MSVOA\_N

ClientSampled :

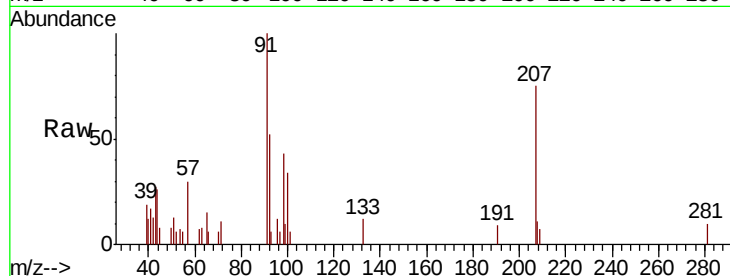
S36-0163

Tot Ion: 92 Resp: 2686

Ion Ratio Lower Upper

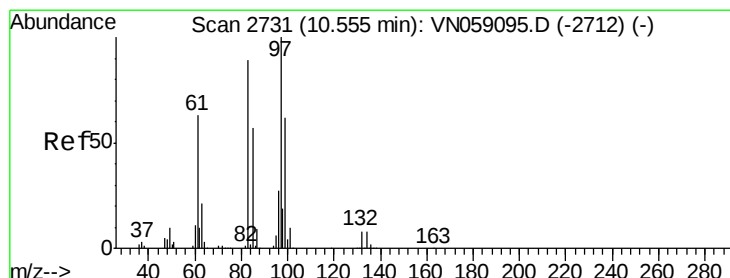
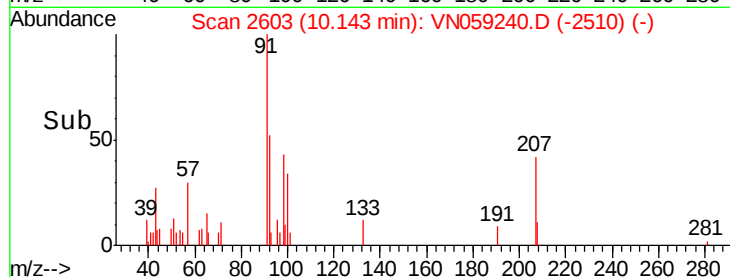
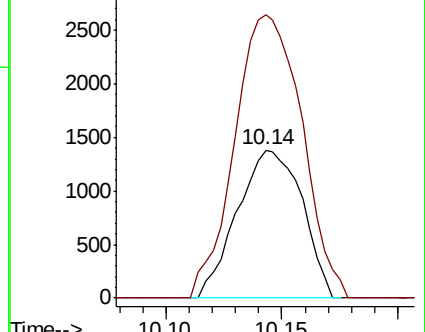
92 100

91 198.5 139.5 209.3



Abundance Ion 92.00 (91.70 to 92.70): VN059240.D (-2587) (-)

Ion 91.00 (90.70 to 91.70): VN059240.D (-2587) (-)



#55

1,1,2-Trichloroethane

Concen: 0.211 ug/l

RT: 10.53 min Scan# 2723

Delta R.T. -0.03 min

Lab File: VN059240.D

Acq: 14 Nov 2019 17:34

Tgt Ion: 97 Resp: 1043

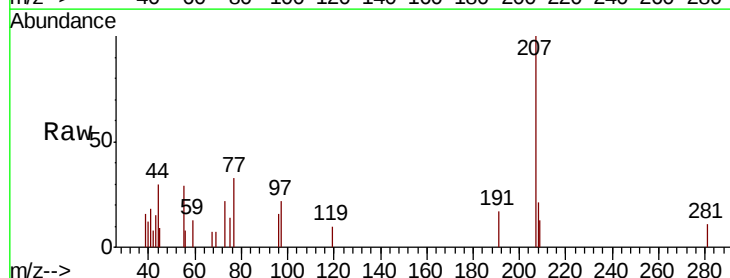
Ion Ratio Lower Upper

97 100

83 0.0 71.0 106.4#

85 0.0 45.8 68.8#

99 0.0 49.4 74.0#

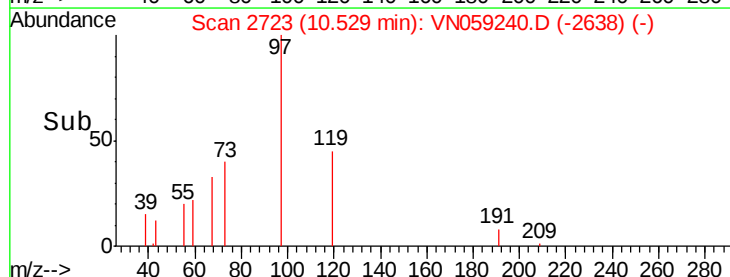
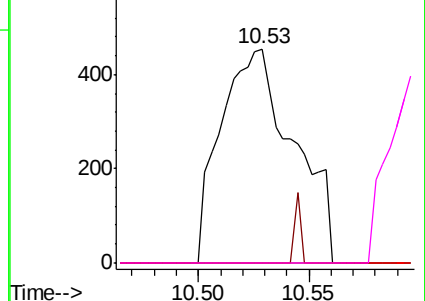


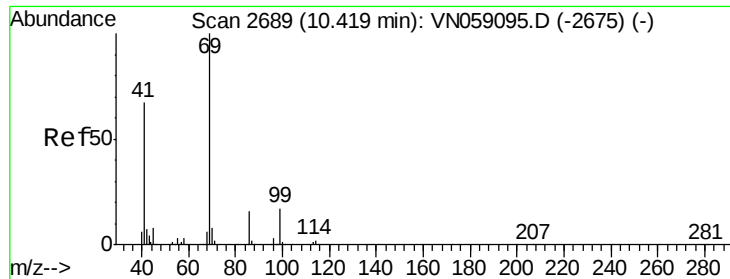
Abundance Ion 96.90 (96.60 to 97.60): VN059240.D (-2638) (-)

Ion 82.90 (82.60 to 83.60): VN059240.D (-2638) (-)

Ion 84.90 (84.60 to 85.60): VN059240.D (-2638) (-)

Ion 98.90 (98.60 to 99.60): VN059240.D (-2638) (-)





#56

Ethyl methacrylate

Concen: 1.963 ug/l

RT: 10.42 min Scan# 2688

Delta R.T. -0.00 min

Lab File: VN059240.D

Acq: 14 Nov 2019 17:34

Instrument :

MSVOA\_N

ClientSampled :

S36-0163

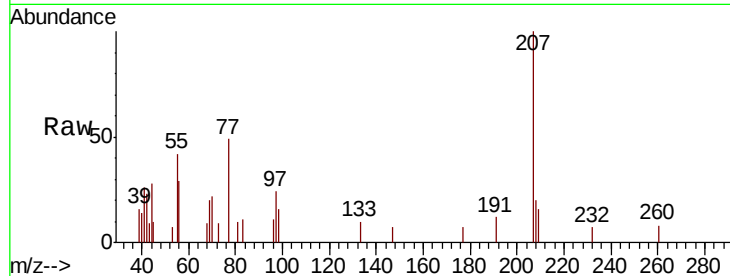
Tot Ion: 69 Resp: 768

Ion Ratio Lower Upper

69 100

41 182.2 53.6 80.4#

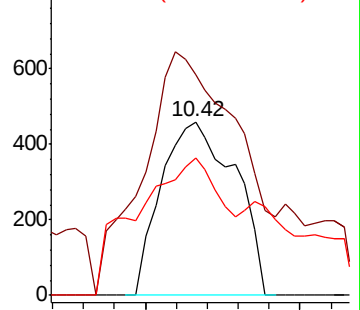
39 92.6 26.2 39.4#



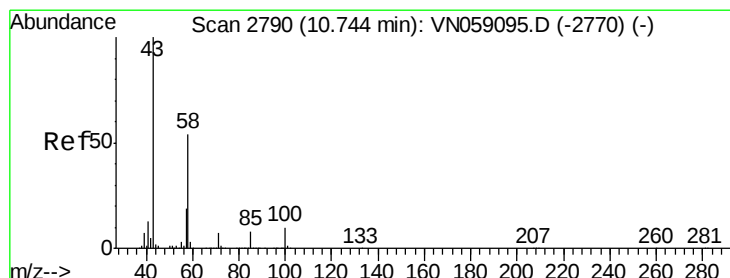
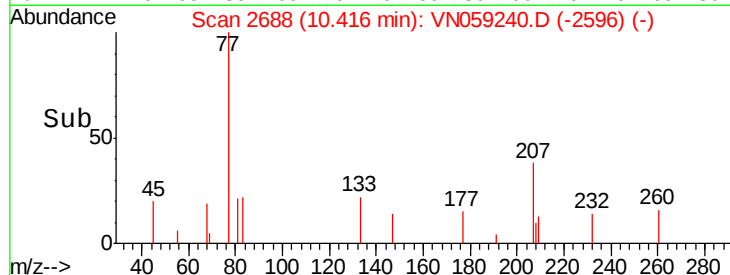
Abundance Ion 69.00 (68.70 to 69.70): VN059240.D (-2675) (-)

Ion 41.00 (40.70 to 41.70): VN059240.D (-2675) (-)

Ion 39.00 (38.70 to 39.70): VN059240.D (-2675) (-)



Time-->



#59

2-Hexanone

Concen: 3.226 ug/l

RT: 10.60 min Scan# 2744

Delta R.T. -0.15 min

Lab File: VN059240.D

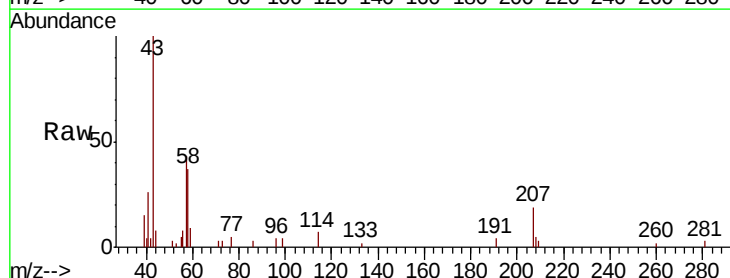
Acq: 14 Nov 2019 17:34

Tgt Ion: 43 Resp: 16847

Ion Ratio Lower Upper

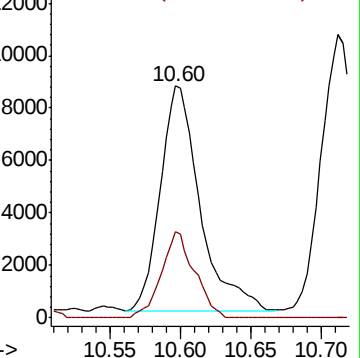
43 100

58 32.1 27.3 81.8

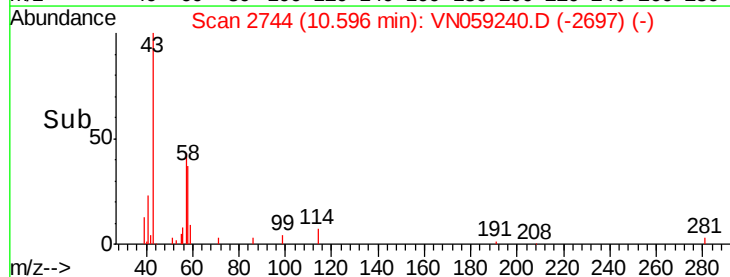


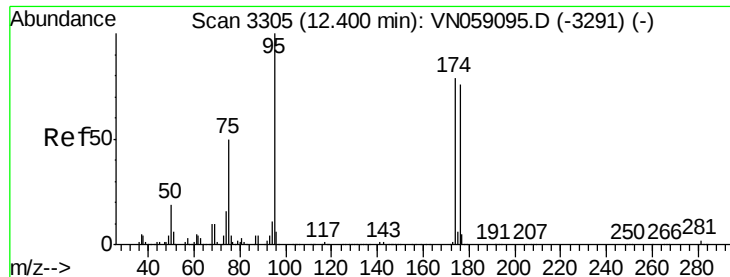
Abundance Ion 43.00 (42.70 to 43.70): VN059240.D (-2697) (-)

Ion 58.00 (57.70 to 58.70): VN059240.D (-2697) (-)



Time-->





#62

4-Bromofluorobenzene

Concen: 53.440 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.00 min

Lab File: VN059240.D

Acq: 14 Nov 2019 17:34

Instrument :

MSVOA\_N

ClientSampled :

S36-0163

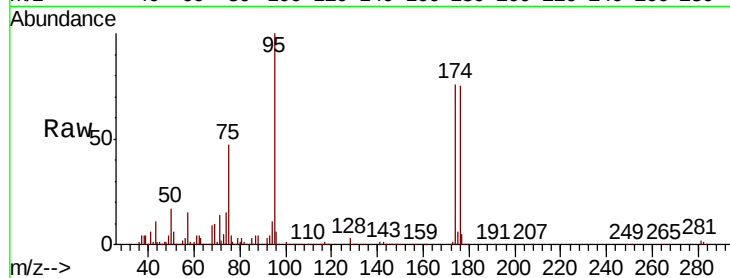
Tot Ion: 95 Resp: 328757

Ion Ratio Lower Upper

95 100

174 76.7 0.0 158.2

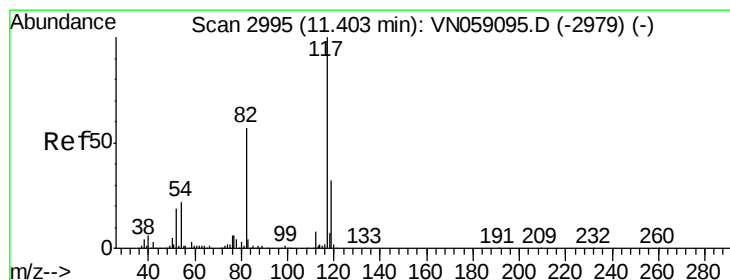
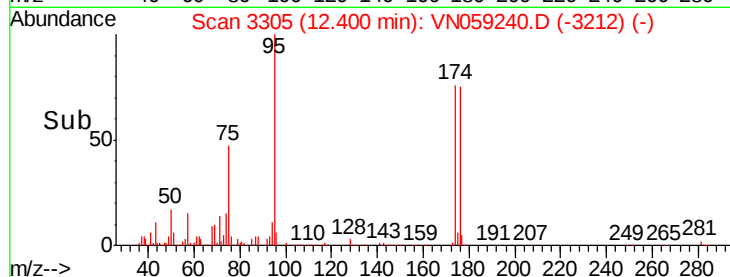
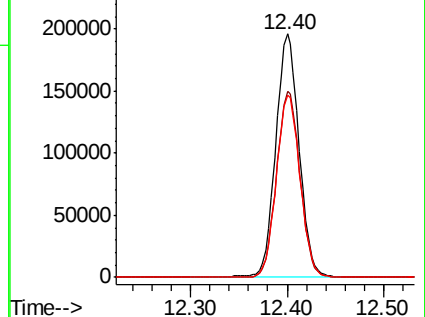
176 75.5 0.0 151.8



Abundance Ion 94.90 (94.60 to 95.60): VN059240.D (-3291) (-)

Ion 173.80 (173.50 to 174.50): VN059240.D (-3291) (-)

Ion 175.80 (175.50 to 176.50): VN059240.D (-3291) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.40 min Scan# 2995

Delta R.T. -0.00 min

Lab File: VN059240.D

Acq: 14 Nov 2019 17:34

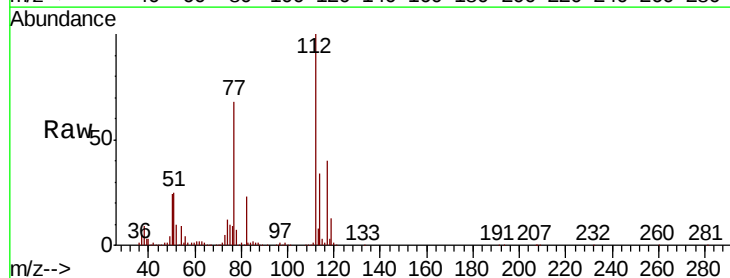
Tgt Ion: 117 Resp: 658970

Ion Ratio Lower Upper

117 100

82 57.4 45.8 68.8

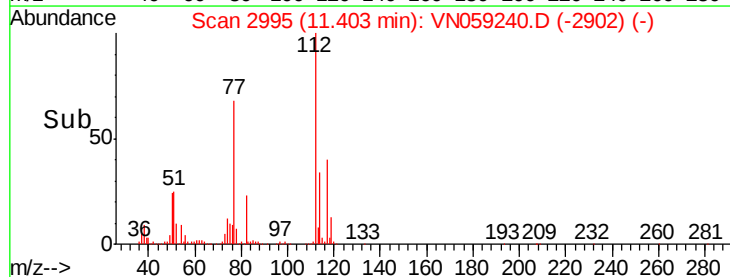
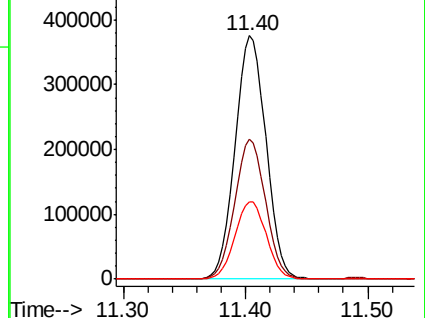
119 32.0 25.8 38.6

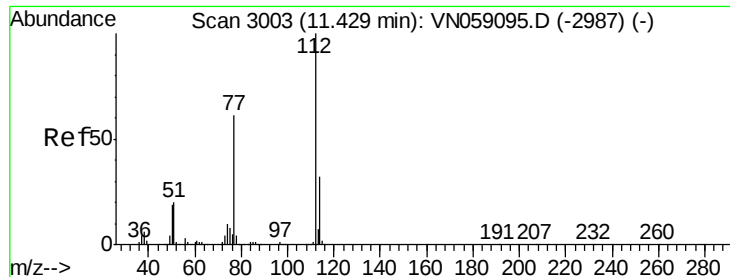


Abundance Ion 116.90 (116.60 to 117.60): VN059240.D (-2979) (-)

Ion 82.00 (81.70 to 82.70): VN059240.D (-2979) (-)

Ion 118.90 (118.60 to 119.60): VN059240.D (-2979) (-)

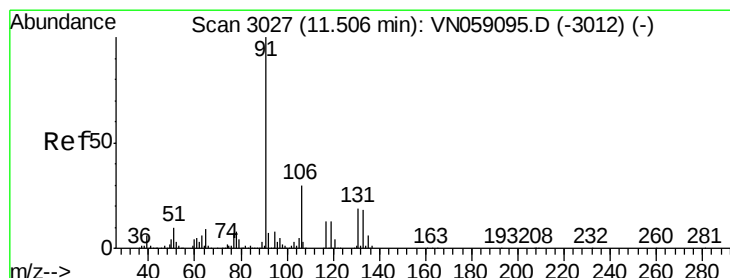
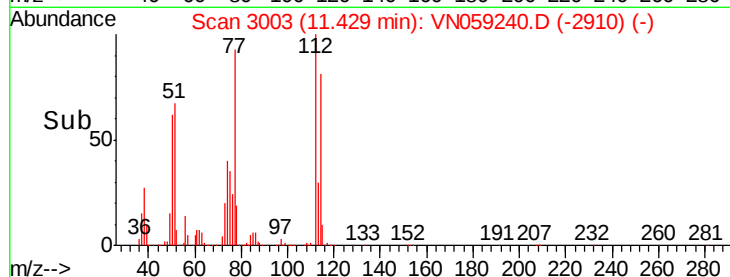
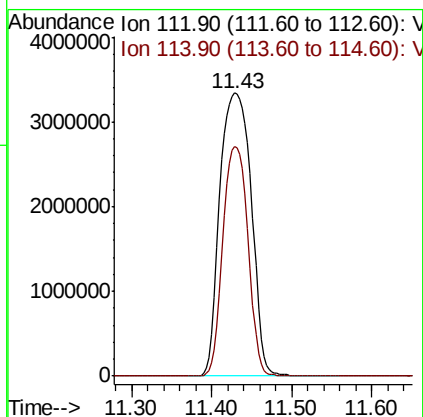
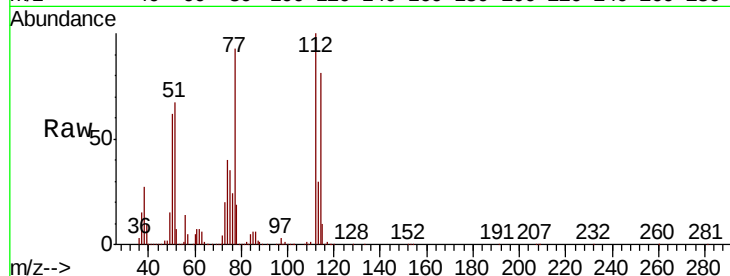




#65  
Chlorobenzene  
Concen: 701.913 ug/l  
RT: 11.43 min Scan# 3003  
Delta R.T. -0.00 min  
Lab File: VN059240.D  
Acq: 14 Nov 2019 17:34

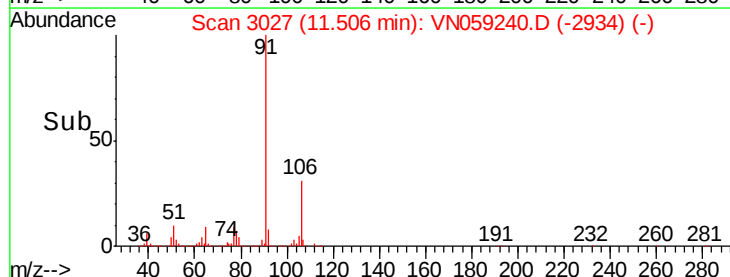
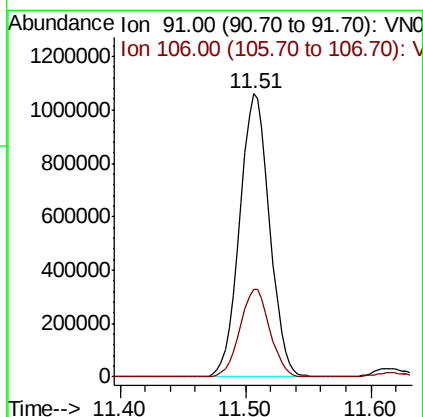
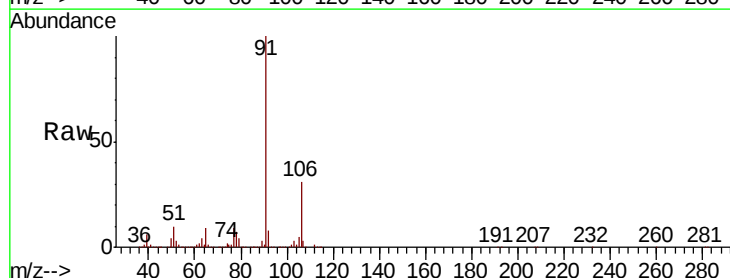
Instrument :  
MSVOA\_N  
ClientSampleId :  
S36-0163

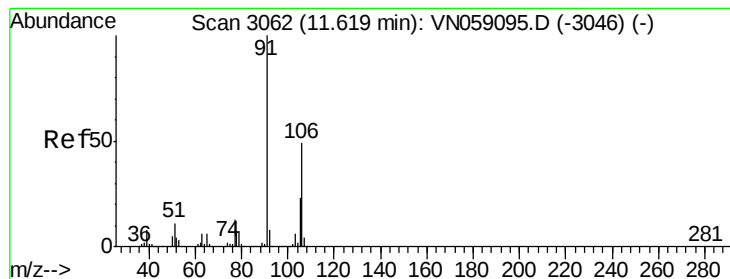
Tot Ion:112 Resp: 9016706  
Ion Ratio Lower Upper  
112 100  
114 81.2 25.2 37.8#



#67  
Ethyl Benzene  
Concen: 77.065 ug/l  
RT: 11.51 min Scan# 3027  
Delta R.T. -0.00 min  
Lab File: VN059240.D  
Acq: 14 Nov 2019 17:34

Tgt Ion: 91 Resp: 1756433  
Ion Ratio Lower Upper  
91 100  
106 31.1 24.1 36.1





#68

m/p-Xylenes

Concen: 3.442 ug/l

RT: 11.62 min Scan# 3061

Delta R.T. -0.00 min

Lab File: VN059240.D

Acq: 14 Nov 2019 17:34

Instrument :

MSVOA\_N

ClientSampleId :

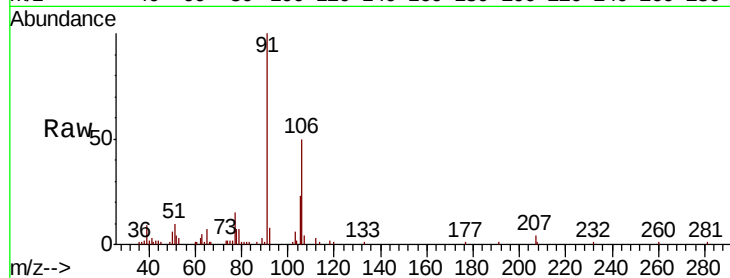
S36-0163

Tot Ion:106 Resp: 29388

Ion Ratio Lower Upper

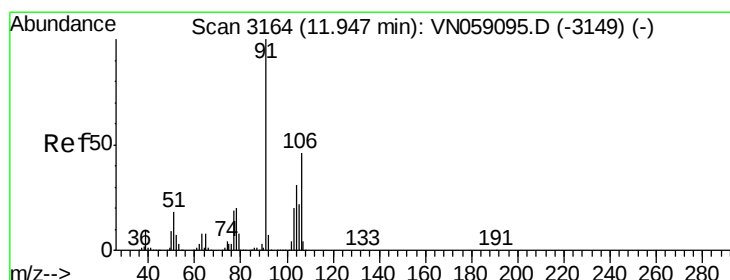
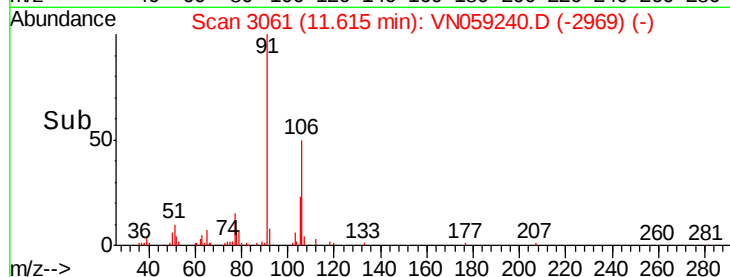
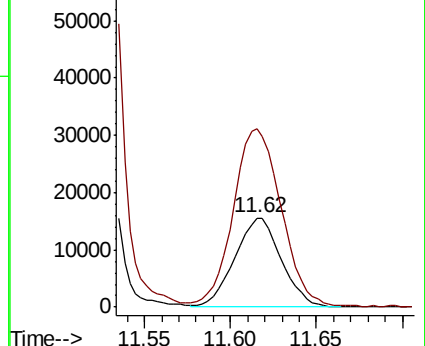
106 100

91 204.8 164.7 247.1



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VN



#69

o-Xylene

Concen: 2.144 ug/l

RT: 11.95 min Scan# 3164

Delta R.T. -0.00 min

Lab File: VN059240.D

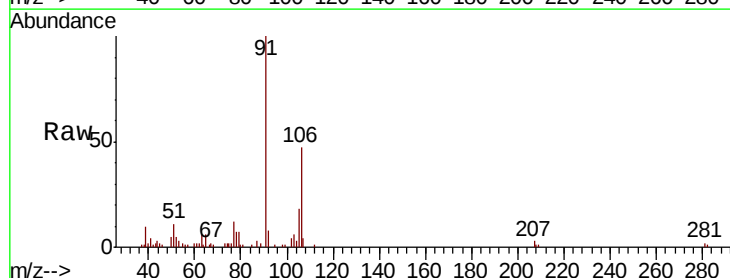
Acq: 14 Nov 2019 17:34

Tgt Ion:106 Resp: 17693

Ion Ratio Lower Upper

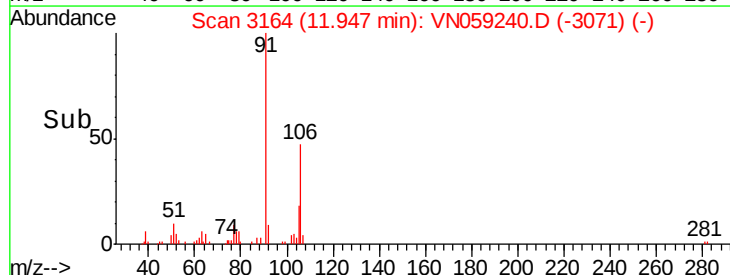
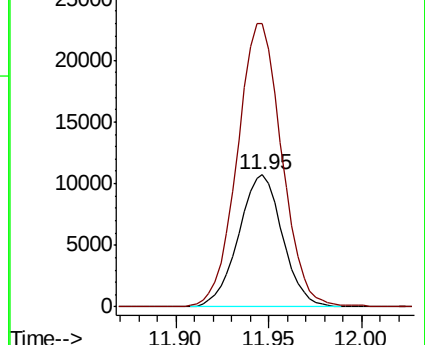
106 100

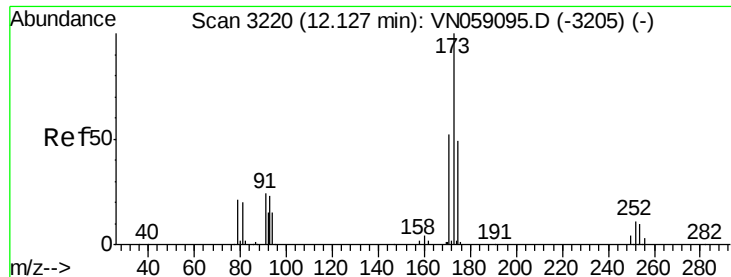
91 217.2 110.1 330.3



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VN





#71

Bromoform

Concen: 0.524 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.27 min

Lab File: VN059240.D

Acq: 14 Nov 2019 17:34

Instrument :

MSVOA\_N

ClientSampled :

S36-0163

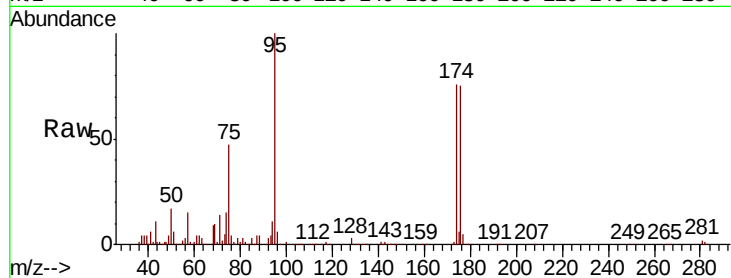
Tot Ion:173 Resp: 1964

Ion Ratio Lower Upper

173 100

175 821.5 24.2 72.6#

254 0.0 0.1 0.1#

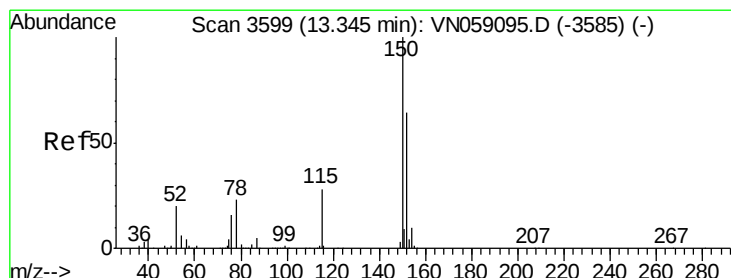
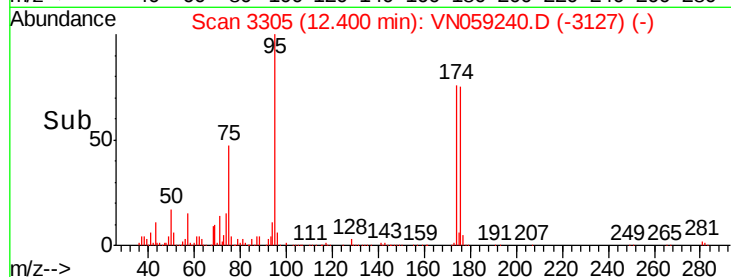
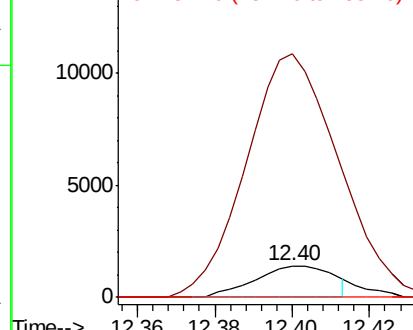


Abundance

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: 13.34 min Scan# 3598

Delta R.T. -0.00 min

Lab File: VN059240.D

Acq: 14 Nov 2019 17:34

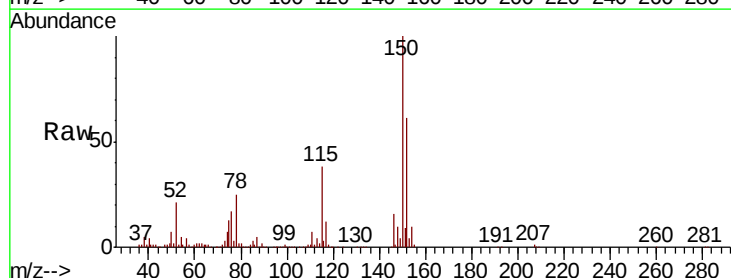
Tgt Ion:152 Resp: 294754

Ion Ratio Lower Upper

152 100

115 61.2 29.4 88.2

150 176.6 0.0 345.8

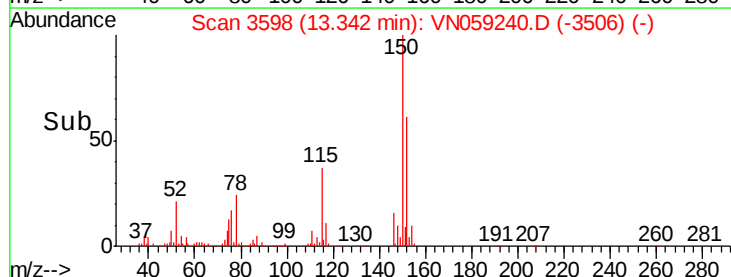
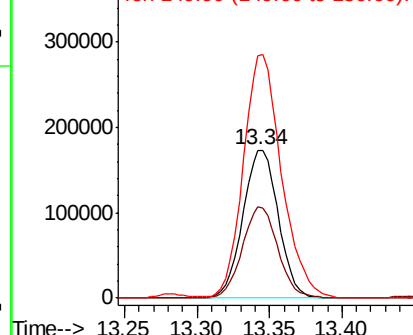


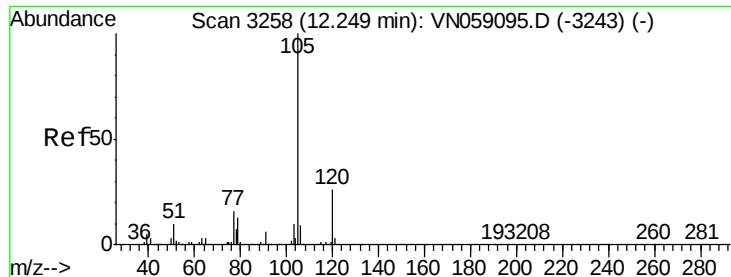
Abundance

Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 11.023 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. -0.00 min

Lab File: VN059240.D

Acq: 14 Nov 2019 17:34

Instrument :

MSVOA\_N

ClientSampleId :

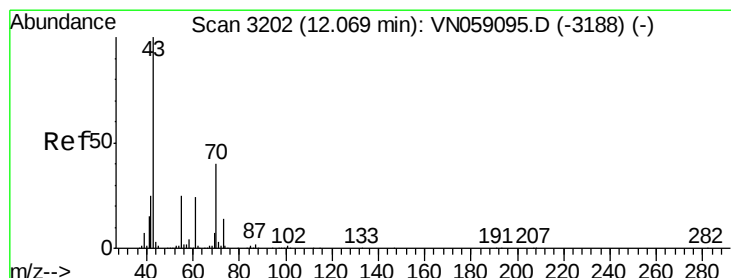
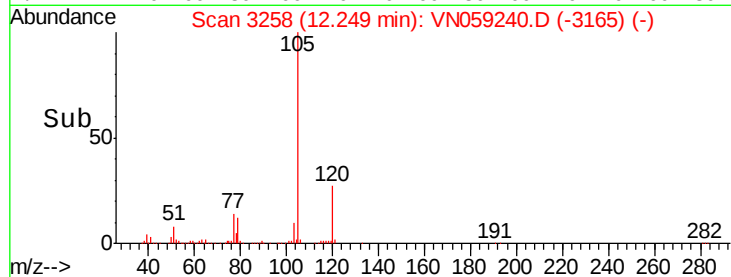
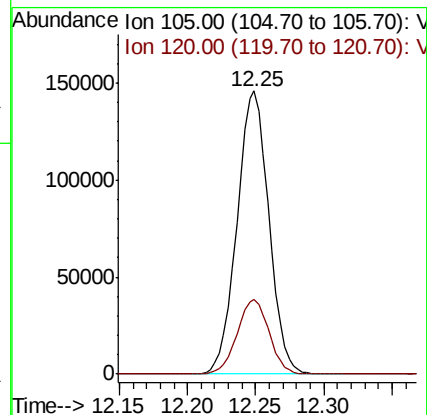
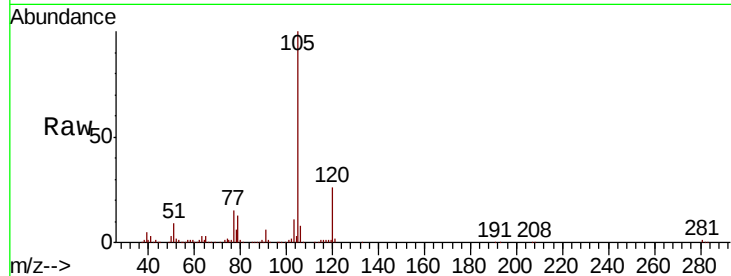
S36-0163

Tot Ion:105 Resp: 236341

Ion Ratio Lower Upper

105 100

120 26.4 13.1 39.3



#74

N-ethyl acetate

Concen: 0.806 ug/l

RT: 12.15 min Scan# 3228

Delta R.T. 0.08 min

Lab File: VN059240.D

Acq: 14 Nov 2019 17:34

Tgt Ion: 43 Resp: 7322

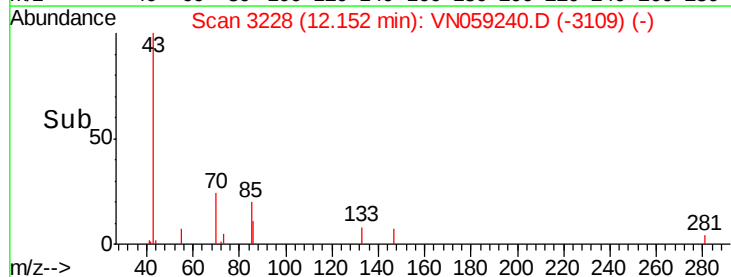
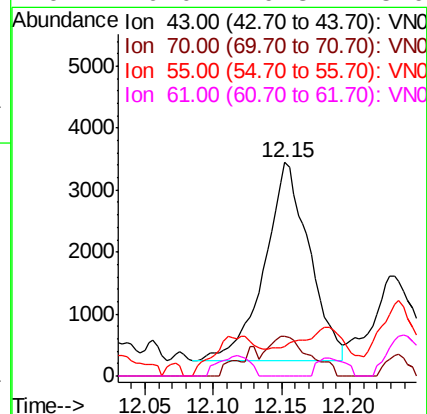
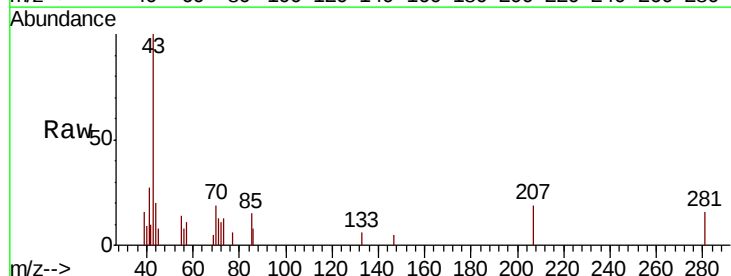
Ion Ratio Lower Upper

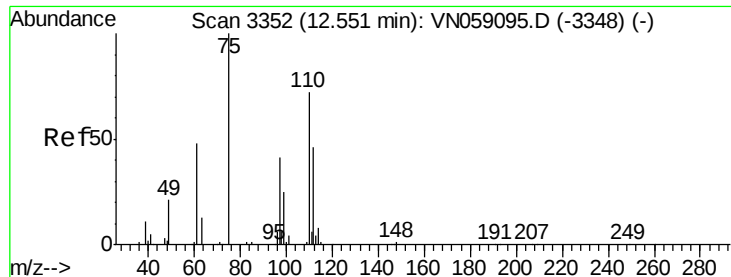
43 100

70 18.6 32.2 48.4#

55 0.0 20.4 30.6#

61 0.0 19.3 28.9#





#76

1,2,3-Trichloropropane

Concen: 23.647 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN059240.D

Acq: 14 Nov 2019 17:34

Instrument :

MSVOA\_N

ClientSampled :

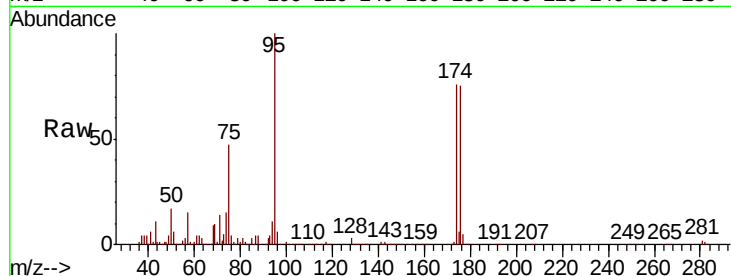
S36-0163

Tot Ion: 75 Resp: 158684

Ion Ratio Lower Upper

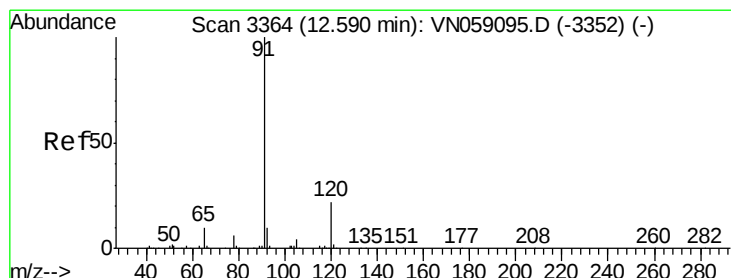
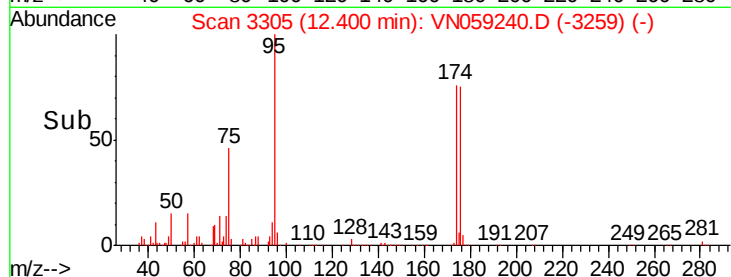
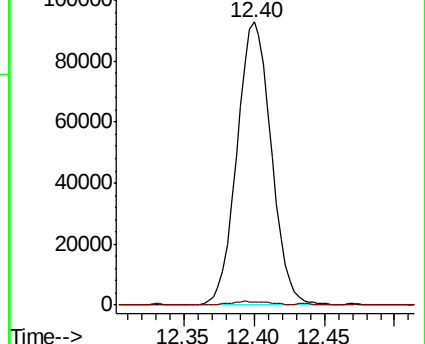
75 100

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



#78

n-propylbenzene

Concen: 10.637 ug/l

RT: 12.59 min Scan# 3364

Delta R.T. -0.00 min

Lab File: VN059240.D

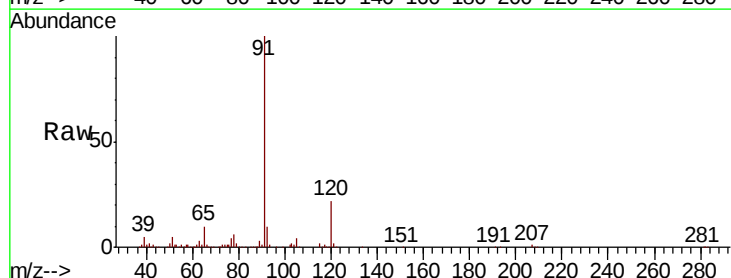
Acq: 14 Nov 2019 17:34

Tgt Ion: 91 Resp: 261130

Ion Ratio Lower Upper

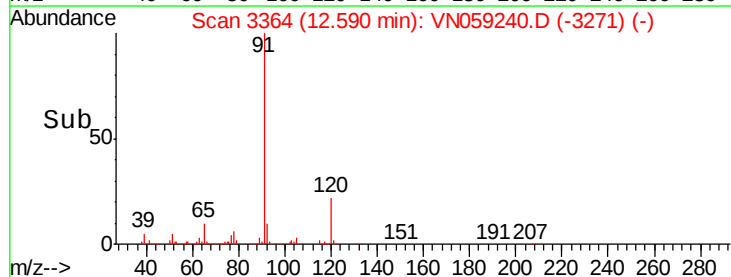
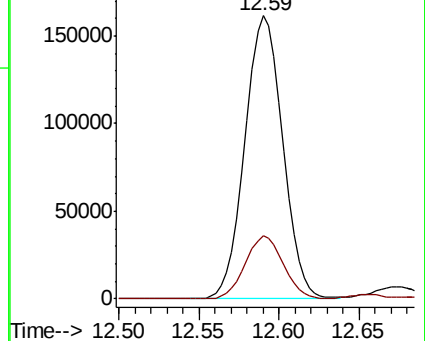
91 100

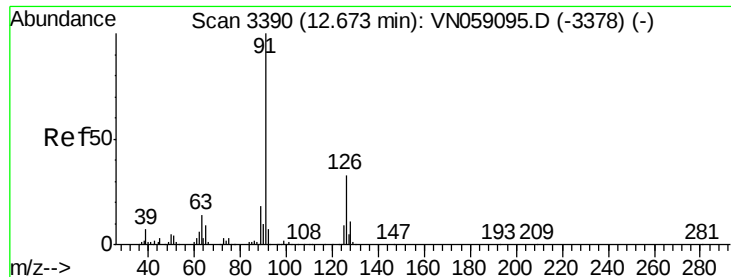
120 22.2 11.2 33.5



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 0.871 ug/l

RT: 12.67 min Scan# 3390

Delta R.T. -0.00 min

Lab File: VN059240.D

Acq: 14 Nov 2019 17:34

Instrument :

MSVOA\_N

ClientSampleId :

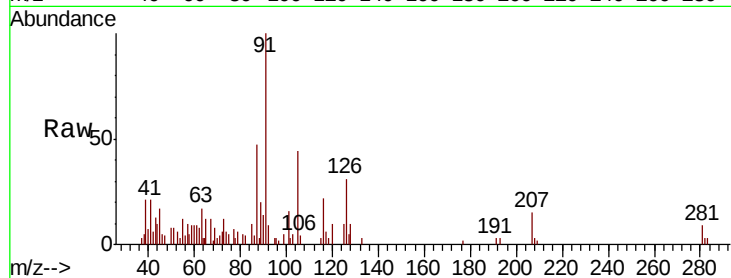
S36-0163

Tot Ion: 91 Resp: 13270

Ion Ratio Lower Upper

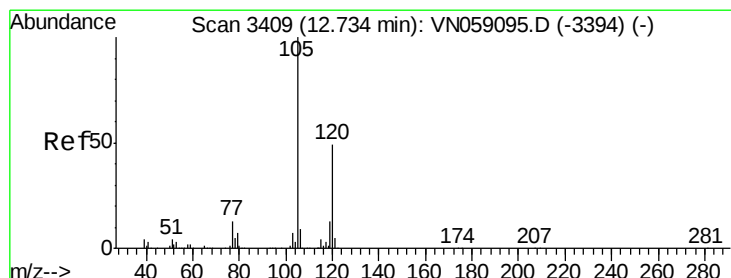
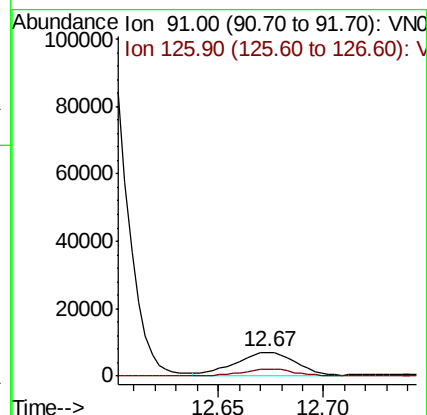
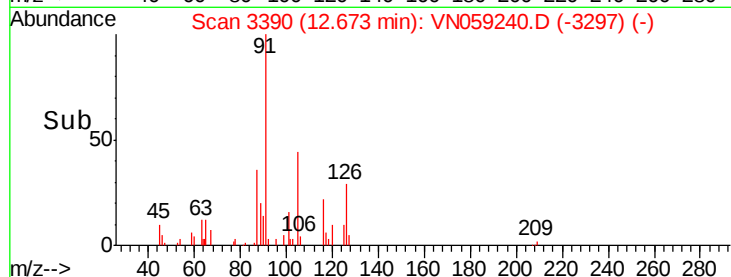
91 100

126 28.7 16.7 50.1



Abundance Ion 91.00 (90.70 to 91.70): VN059240.D (-3378) (-)

Ion 125.90 (125.60 to 126.60): VN059240.D (-3378) (-)



#80

1,3,5-Trimethylbenzene

Concen: 13.079 ug/l

RT: 12.89 min Scan# 3458

Delta R.T. 0.16 min

Lab File: VN059240.D

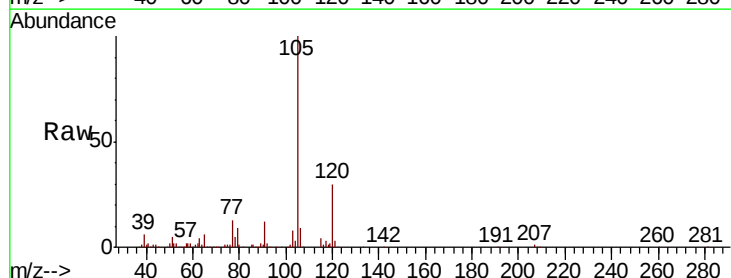
Acq: 14 Nov 2019 17:34

Tgt Ion: 105 Resp: 237607

Ion Ratio Lower Upper

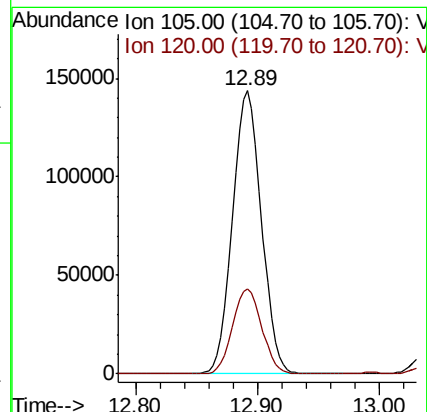
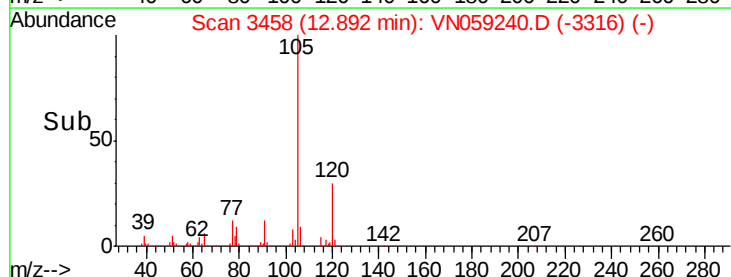
105 100

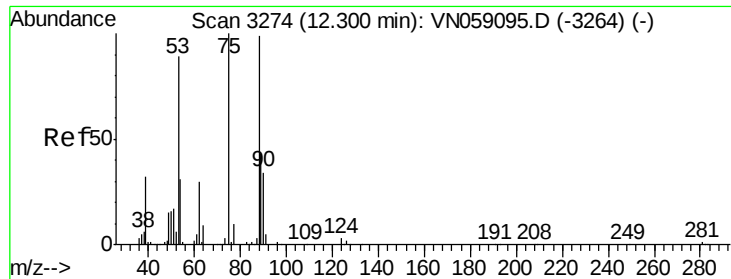
120 30.4 24.0 72.0



Abundance Ion 105.00 (104.70 to 105.70): VN059240.D (-3394) (-)

Ion 120.00 (119.70 to 120.70): VN059240.D (-3394) (-)





#81

trans-1,4-Dichloro-2-butene

Concen: 62.458 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN059240.D

Acq: 14 Nov 2019 17:34

Instrument :

MSVOA\_N

ClientSampleId :

S36-0163

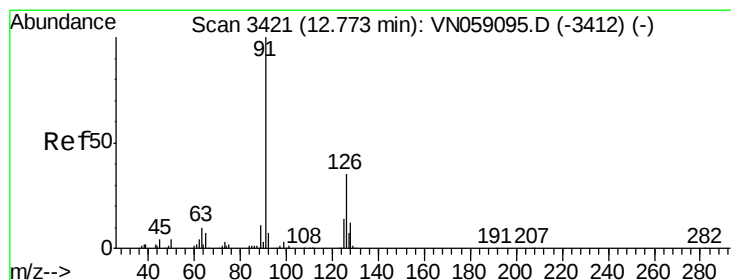
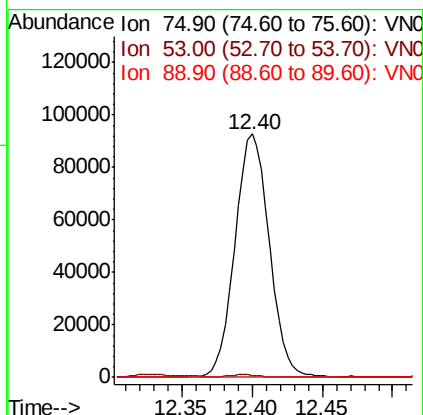
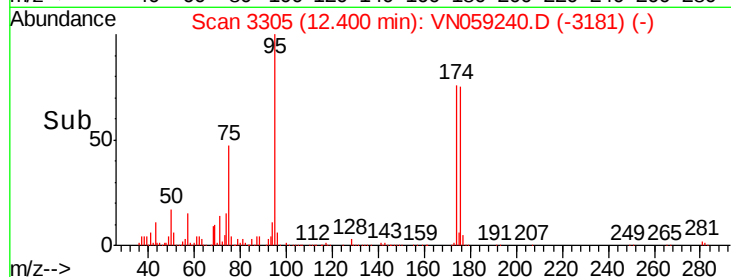
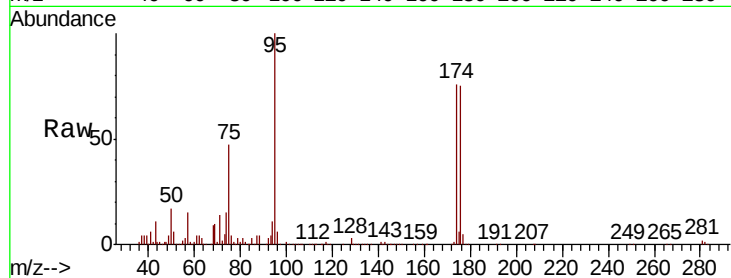
Tot Ion: 75 Resp: 158684

Ion Ratio Lower Upper

75 100

53 0.8 72.2 108.2#

89 0.0 35.8 53.8#



#82

4-Chlorotoluene

Concen: 0.869 ug/l

RT: 12.67 min Scan# 3390

Delta R.T. -0.10 min

Lab File: VN059240.D

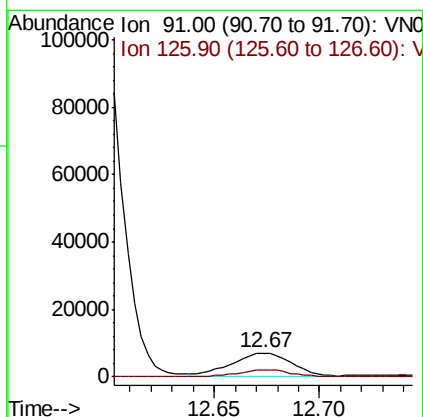
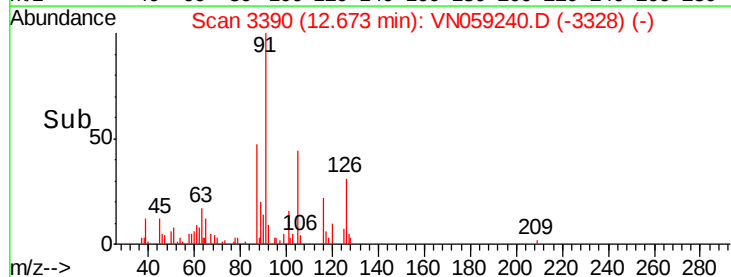
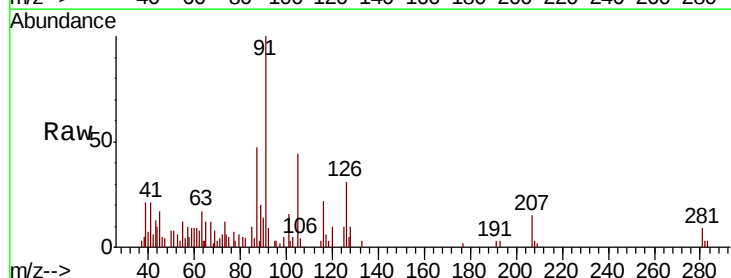
Acq: 14 Nov 2019 17:34

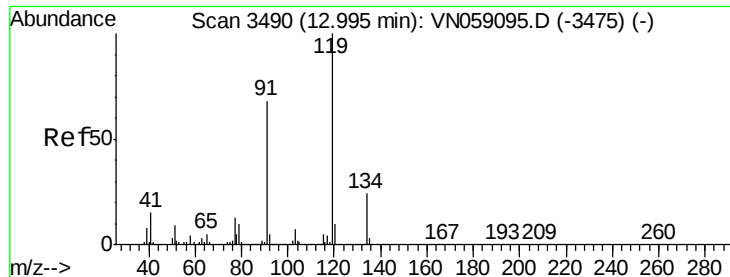
Tgt Ion: 91 Resp: 13270

Ion Ratio Lower Upper

91 100

126 28.7 16.1 48.2

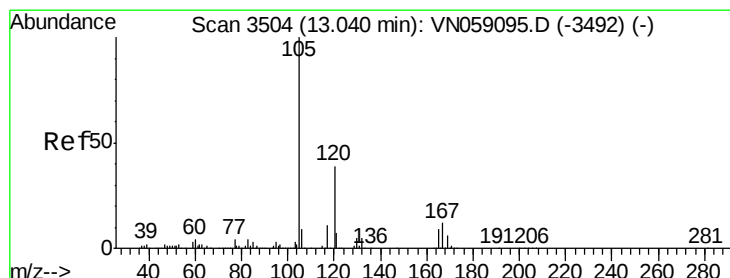
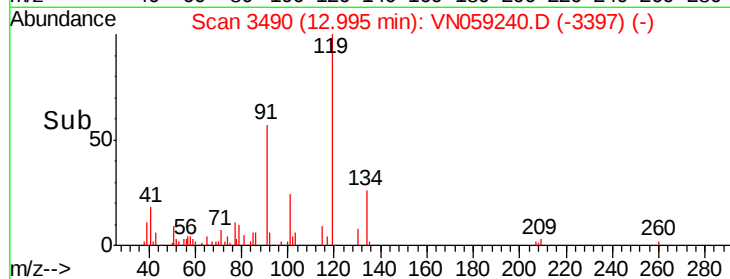
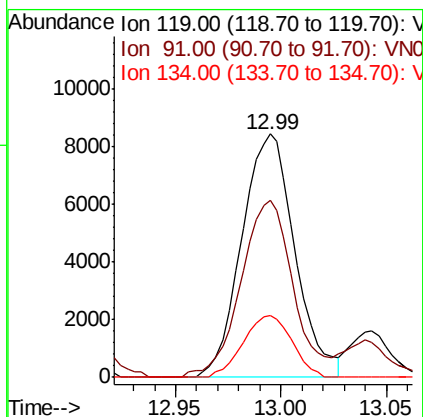
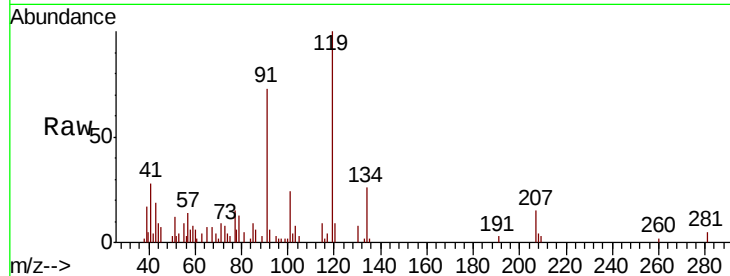




#83  
 tert-Butylbenzene  
 Concen: 0.940 ug/l  
 RT: 12.99 min Scan# 3490  
 Delta R.T. -0.00 min  
 Lab File: VN059240.D  
 Acq: 14 Nov 2019 17:34

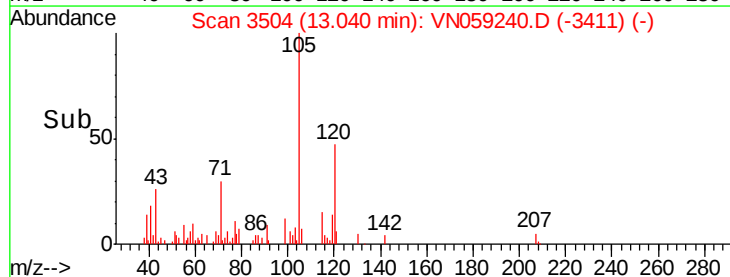
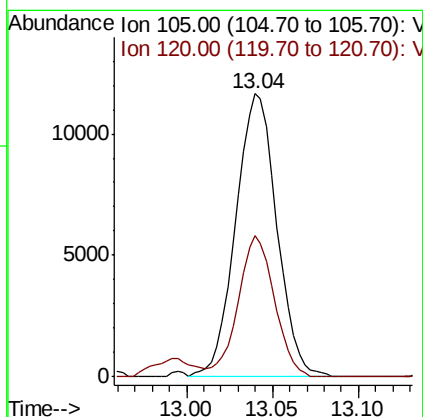
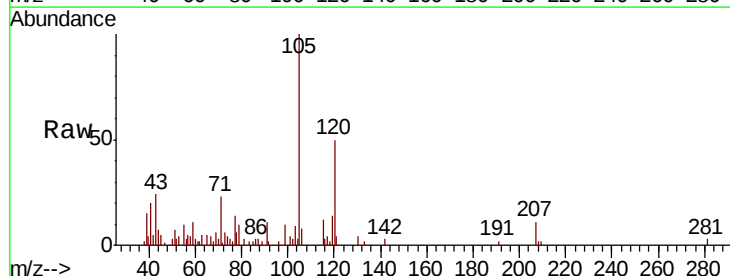
Instrument :  
 MSVOA\_N  
 ClientSampled :  
 S36-0163

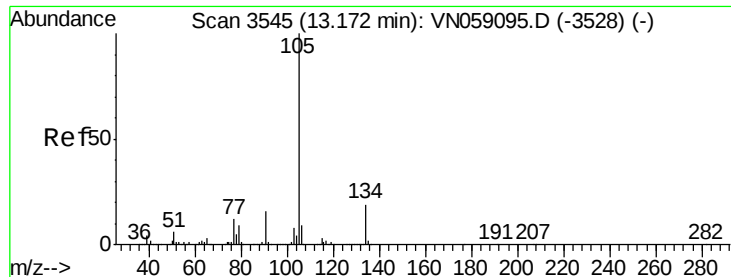
Tot Ion:119 Resp: 14755  
 Ion Ratio Lower Upper  
 119 100  
 91 71.4 33.2 99.6  
 134 23.3 12.7 38.1



#84  
 1,2,4-Trimethylbenzene  
 Concen: 1.105 ug/l  
 RT: 13.04 min Scan# 3504  
 Delta R.T. -0.00 min  
 Lab File: VN059240.D  
 Acq: 14 Nov 2019 17:34

Tgt Ion:105 Resp: 19416  
 Ion Ratio Lower Upper  
 105 100  
 120 43.9 22.8 68.4





#85

sec-Butylbenzene

Concen: 2.403 ug/l

RT: 13.17 min Scan# 3545

Delta R.T. -0.00 min

Lab File: VN059240.D

Acq: 14 Nov 2019 17:34

Instrument :

MSVOA\_N

ClientSampleId :

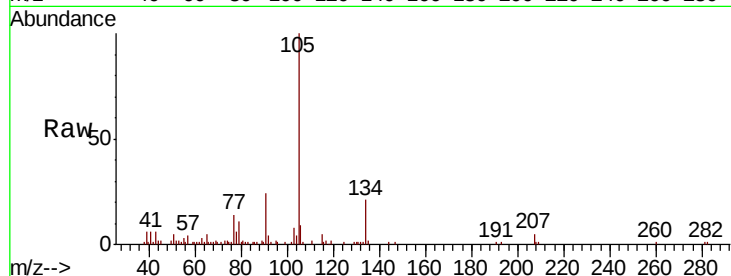
S36-0163

Tot Ion:105 Resp: 49025

Ion Ratio Lower Upper

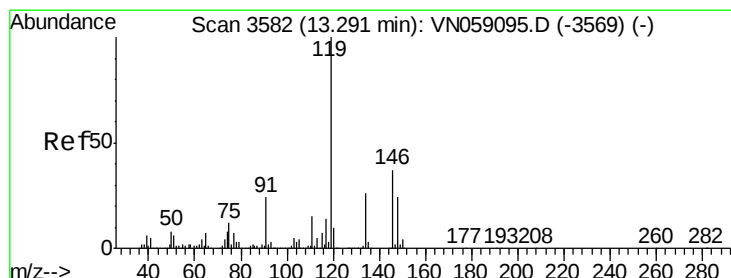
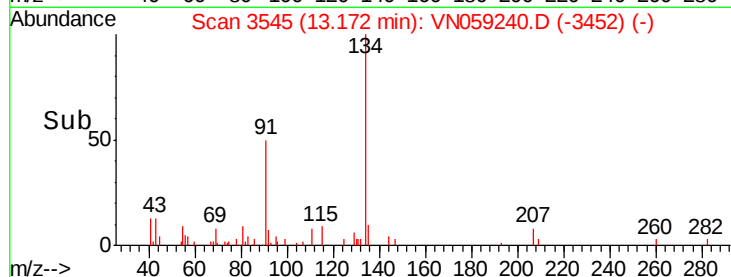
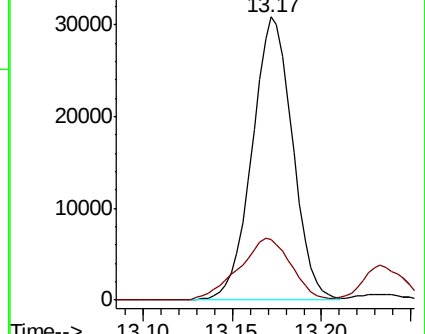
105 100

134 27.9 9.7 29.1



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 1.219 ug/l

RT: 13.24 min Scan# 3565

Delta R.T. -0.05 min

Lab File: VN059240.D

Acq: 14 Nov 2019 17:34

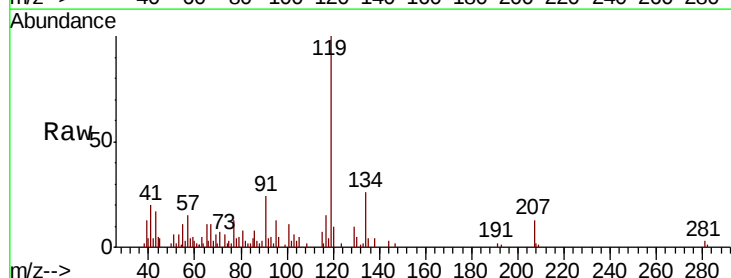
Tgt Ion:119 Resp: 21968

Ion Ratio Lower Upper

119 100

134 28.2 13.0 38.9

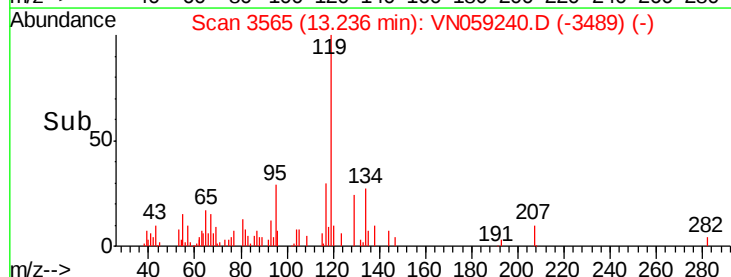
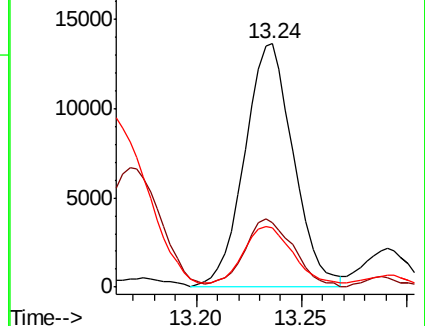
91 22.9 11.7 35.1

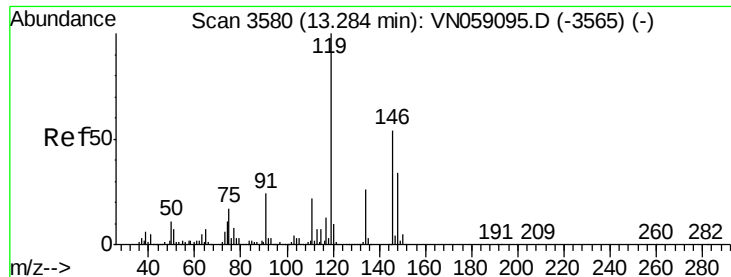


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V





#87

1,3-Dichlorobenzene

Concen: 8.026 ug/l

RT: 13.28 min Scan# 3580

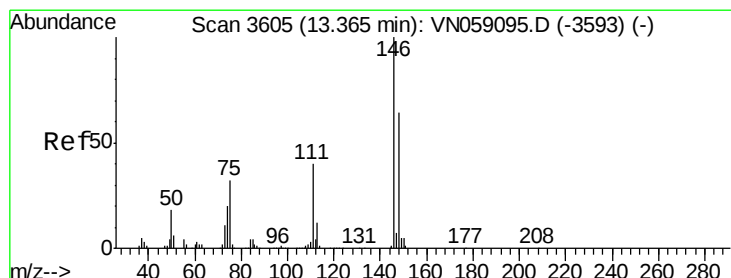
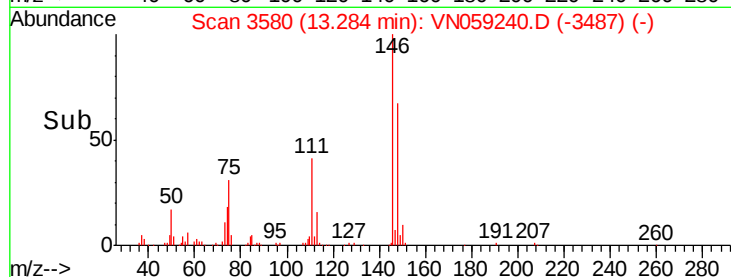
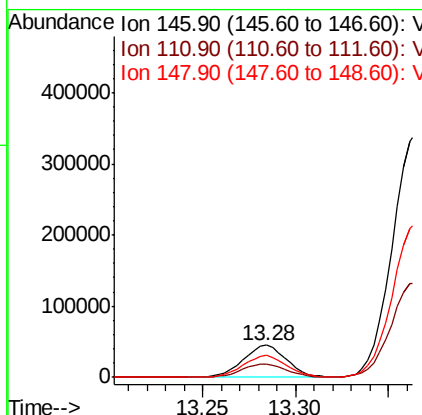
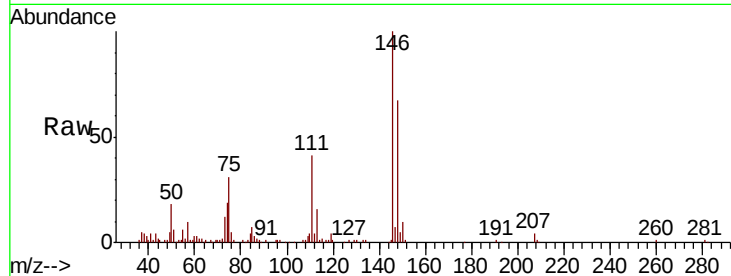
Delta R.T. -0.00 min

Lab File: VN059240.D

Acq: 14 Nov 2019 17:34

Instrument :  
MSVOA\_N  
ClientSampleId :  
S36-0163

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 42.3  | 20.4  | 61.3  |
| 148     | 66.6  | 32.2  | 96.6  |



#88

1,4-Dichlorobenzene

Concen: 60.718 ug/l

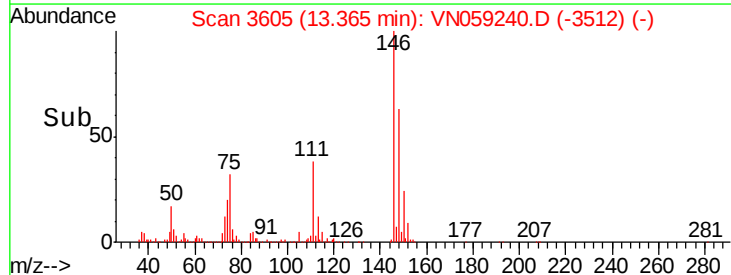
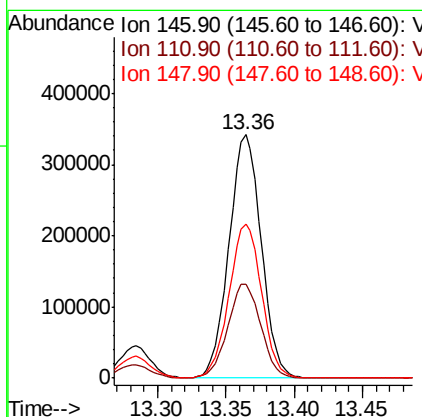
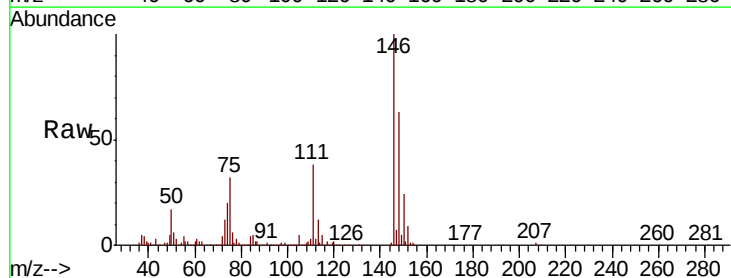
RT: 13.36 min Scan# 3605

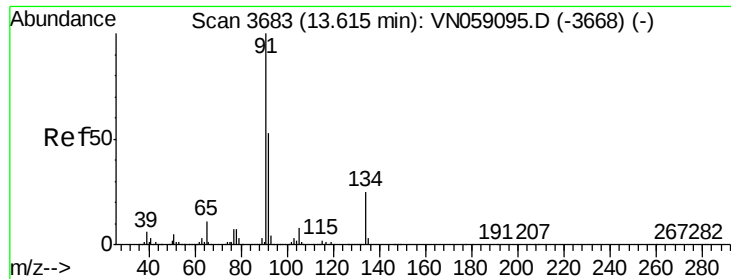
Delta R.T. -0.00 min

Lab File: VN059240.D

Acq: 14 Nov 2019 17:34

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 39.6  | 20.3  | 60.9  |
| 148     | 63.6  | 31.9  | 95.7  |





#89

n-Butylbenzene

Concen: 0.530 ug/l

RT: 13.62 min Scan# 3683

Delta R.T. -0.00 min

Lab File: VN059240.D

Acq: 14 Nov 2019 17:34

Instrument :

MSVOA\_N

ClientSampled :

S36-0163

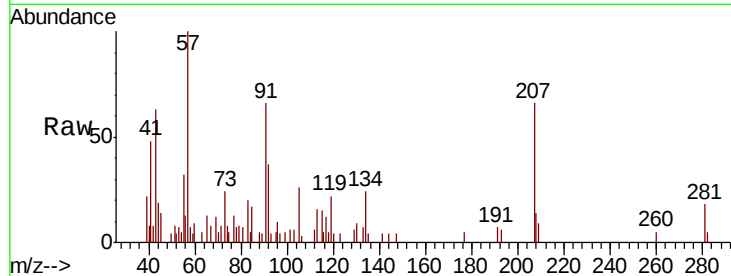
Tot Ion: 91 Resp: 8352

Ion Ratio Lower Upper

91 100

92 33.5 26.1 78.3

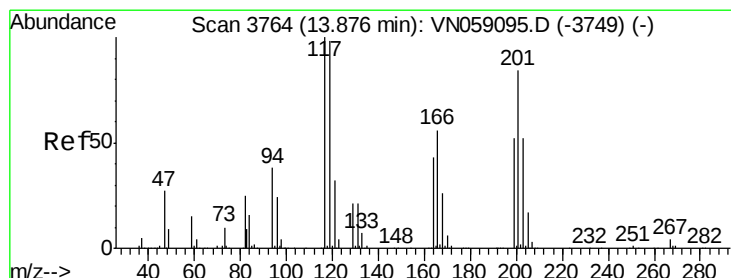
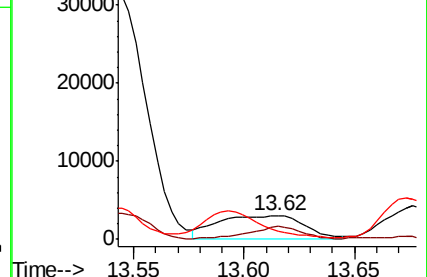
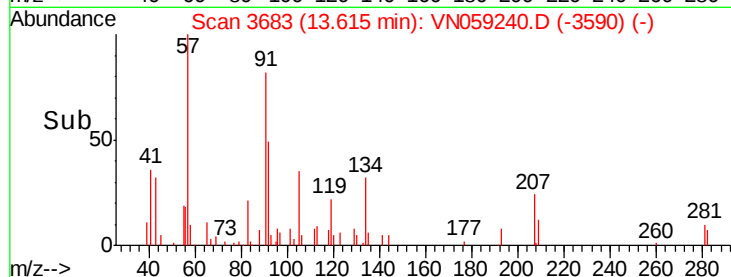
134 0.0 12.6 37.8#



Abundance Ion 91.00 (90.70 to 91.70): VN059240.D (-3668) (-)

Ion 92.00 (91.70 to 92.70): VN059240.D (-3668) (-)

Ion 134.00 (133.70 to 134.70): VN059240.D (-3668) (-)



#90

Hexachloroethane

Concen: 9.311 ug/l

RT: 13.95 min Scan# 3786

Delta R.T. 0.07 min

Lab File: VN059240.D

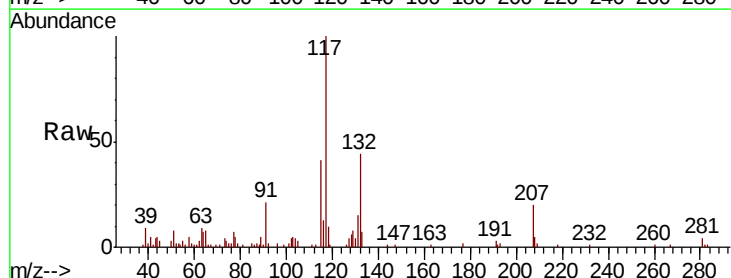
Acq: 14 Nov 2019 17:34

Tgt Ion: 117 Resp: 33685

Ion Ratio Lower Upper

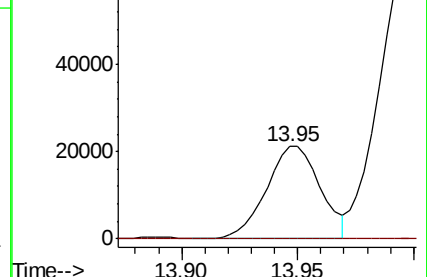
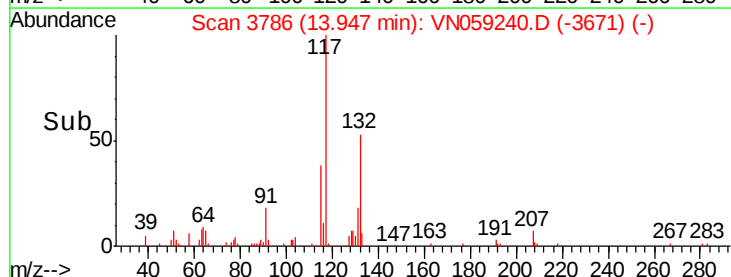
117 100

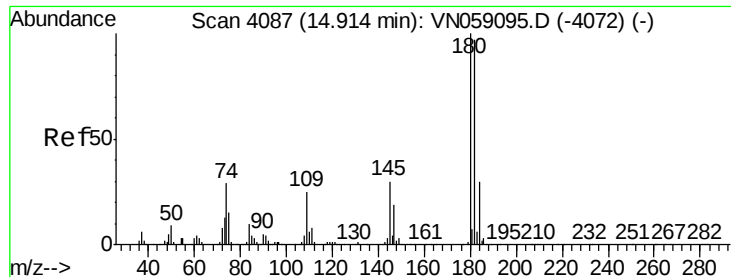
201 0.0 41.8 125.3#



Abundance Ion 116.80 (116.50 to 117.50): VN059240.D (-3749) (-)

Ion 200.70 (200.40 to 201.40): VN059240.D (-3749) (-)

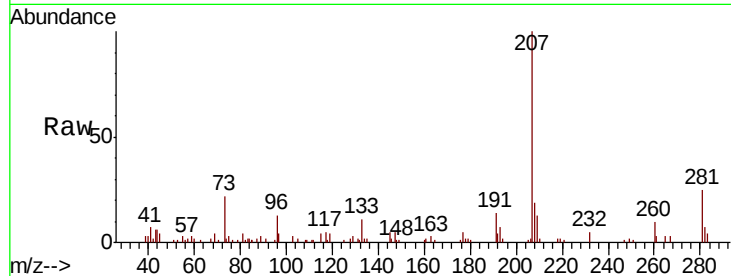




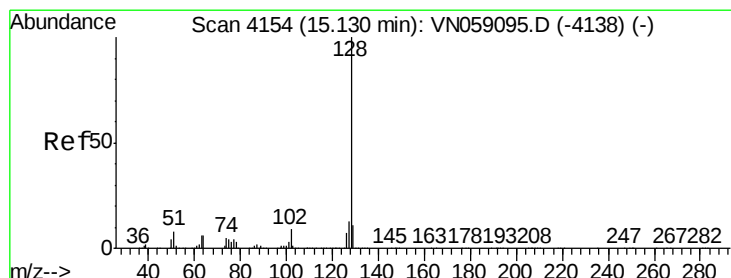
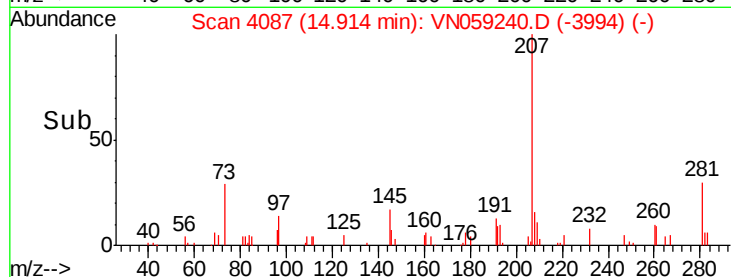
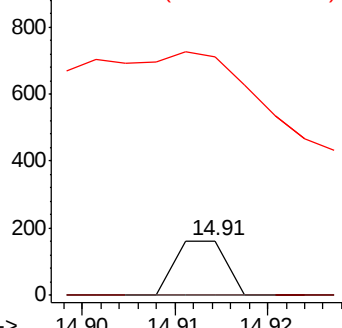
#93  
 1,2,4-Trichlorobenzene  
 Concen: 3.057 ug/l  
 RT: 14.91 min Scan# 4087  
 Delta R.T. 0.00 min  
 Lab File: VN059240.D  
 Acq: 14 Nov 2019 17:34

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 S36-0163

Tot Ion:180 Resp: 62  
 Ion Ratio Lower Upper  
 180 100  
 182 0.0 48.1 144.3#  
 145 0.0 15.1 45.3#

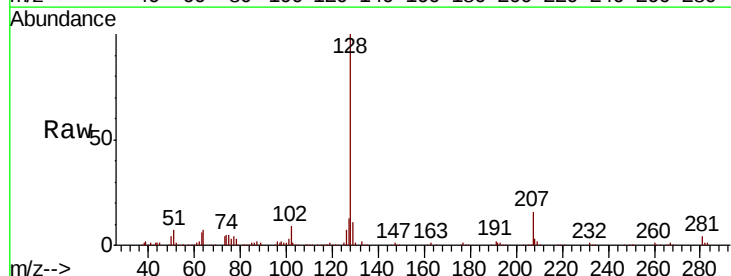


Abundance Ion 179.80 (179.50 to 180.50): V  
 Ion 181.80 (181.50 to 182.50): V  
 Ion 144.80 (144.50 to 145.50): V



#95  
 Naphthalene  
 Concen: 15.030 ug/l  
 RT: 15.13 min Scan# 4153  
 Delta R.T. -0.00 min  
 Lab File: VN059240.D  
 Acq: 14 Nov 2019 17:34

Tgt Ion:128 Resp: 194940  
 Ion Ratio Lower Upper  
 128 100  
 127 13.1 10.2 15.2  
 129 11.1 8.6 12.8



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

