

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN101519\  
 Data File : VN058789.D  
 Acq On : 15 Oct 2019 17:44  
 Operator : JC/SP  
 Sample : K5326-01  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 IDW-SO-101019

Quant Time: Oct 16 04:19:15 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N101319W.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Oct 12 00:00:30 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.65  | 168  | 375008   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.57  | 114  | 597374   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.41 | 117  | 548333   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.35 | 152  | 227686   | 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   | 275540   | 52.48 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 104.96% |          |
| 35) Dibromofluoromethane    | 7.57  | 113  | 194588   | 52.74 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 105.48% |          |
| 50) Toluene-d8              | 10.09 | 98   | 764675   | 51.82 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 103.64% |          |
| 62) 4-Bromofluorobenzene    | 12.40 | 95   | 254597   | 45.58 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 91.16%  |          |

| Target Compounds               | R.T.  | QIon | Response | Conc    | Units  | Qvalue |
|--------------------------------|-------|------|----------|---------|--------|--------|
| 11) Tert butyl alcohol         | 4.76  | 59   | 362      | 0.426   | ug/l # | 72     |
| 14) Allyl chloride             | 4.53  | 41   | 37163    | 5.113   | ug/l # | 24     |
| 16) Acetone                    | 3.80  | 43   | 15096    | 6.946   | ug/l   | 92     |
| 18) Methyl Acetate             | 4.31  | 43   | 3482     | 0.632   | ug/l # | 82     |
| 20) Methylene Chloride         | 4.53  | 84   | 1026816  | 226.047 | ug/l   | 98     |
| 25) 2-Butanone                 | 6.83  | 43   | 4335     | 1.380   | ug/l # | 87     |
| 31) Cyclohexane                | 7.64  | 56   | 9038     | 1.174   | ug/l # | 5      |
| 36) 1,1-Dichloropropene        | 7.65  | 75   | 32832    | 5.436   | ug/l # | 51     |
| 38) Carbon Tetrachloride       | 7.65  | 117  | 37261    | 6.330   | ug/l # | 17     |
| 43) Isopropyl Acetate          | 8.15  | 43   | 94628    | 9.094   | ug/l # | 90     |
| 45) 1,2-Dichloropropane        | 9.26  | 63   | 2217     | 0.477   | ug/l # | 45     |
| 48) Methyl methacrylate        | 9.17  | 41   | 5968     | 1.265   | ug/l # | 14     |
| 49) 1,4-Dioxane                | 9.26  | 88   | 66       | 0.904   | ug/l # | 1      |
| 51) 4-Methyl-2-Pentanone       | 9.98  | 43   | 6337     | 1.084   | ug/l   | 93     |
| 54) cis-1,3-Dichloropropene    | 9.90  | 75   | 36623    | 5.016   | ug/l # | 64     |
| 56) Ethyl methacrylate         | 10.54 | 69   | 1676     | 0.264   | ug/l # | 1      |
| 57) 1,3-Dichloropropane        | 10.76 | 76   | 7229     | 0.977   | ug/l # | 42     |
| 59) 2-Hexanone                 | 10.76 | 43   | 108520   | 24.029  | ug/l # | 52     |
| 65) Chlorobenzene              | 11.43 | 112  | 9907     | 0.890   | ug/l   | 99     |
| 68) m/p-Xylenes                | 11.62 | 106  | 1744     | 0.234   | ug/l   | 87     |
| 71) Bromoform                  | 12.40 | 173  | 1369     | 0.454   | ug/l # | 1      |
| 73) Isopropylbenzene           | 12.25 | 105  | 24780    | 1.503   | ug/l   | 99     |
| 74) N-ethyl acetate            | 12.03 | 43   | 5527     | 0.746   | ug/l # | 48     |
| 76) 1,2,3-Trichloropropane     | 12.40 | 75   | 138070   | 27.642  | ug/l # | 100    |
| 78) n-propylbenzene            | 12.60 | 91   | 51049    | 2.657   | ug/l   | 99     |
| 79) 2-Chlorotoluene            | 12.60 | 91   | 51049    | 4.280   | ug/l # | 42     |
| 80) 1,3,5-Trimethylbenzene     | 12.74 | 105  | 4228     | 0.300   | ug/l   | 95     |
| 81) trans-1,4-Dichloro-2-buten | 12.40 | 75   | 138070   | 74.045  | ug/l # | 11     |
| 82) 4-Chlorotoluene            | 12.60 | 91   | 51049    | 4.171   | ug/l # | 43     |
| 83) tert-Butylbenzene          | 12.99 | 119  | 3311     | 0.275   | ug/l   | 98     |
| 84) 1,2,4-Trimethylbenzene     | 13.04 | 105  | 7425     | 0.531   | ug/l   | 94     |
| 85) sec-Butylbenzene           | 13.17 | 105  | 27348    | 1.721   | ug/l   | 85     |
| 86) p-Isopropyltoluene         | 13.45 | 119  | 9347     | 0.647   | ug/l   | 89     |
| 89) n-Butylbenzene             | 13.62 | 91   | 11886    | 0.890   | ug/l # | 78     |

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Sample : K5326-01  
Misc : 5.00mL/MSVOA N/WATER  
ALS Vial : 21 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
IDW-SO-101019

Quant Time: Oct 16 04:19:15 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N101319W.M  
Quant Title : SW846 8260  
QLast Update : Sat Oct 12 00:00:30 2019  
Response via : Initial Calibration

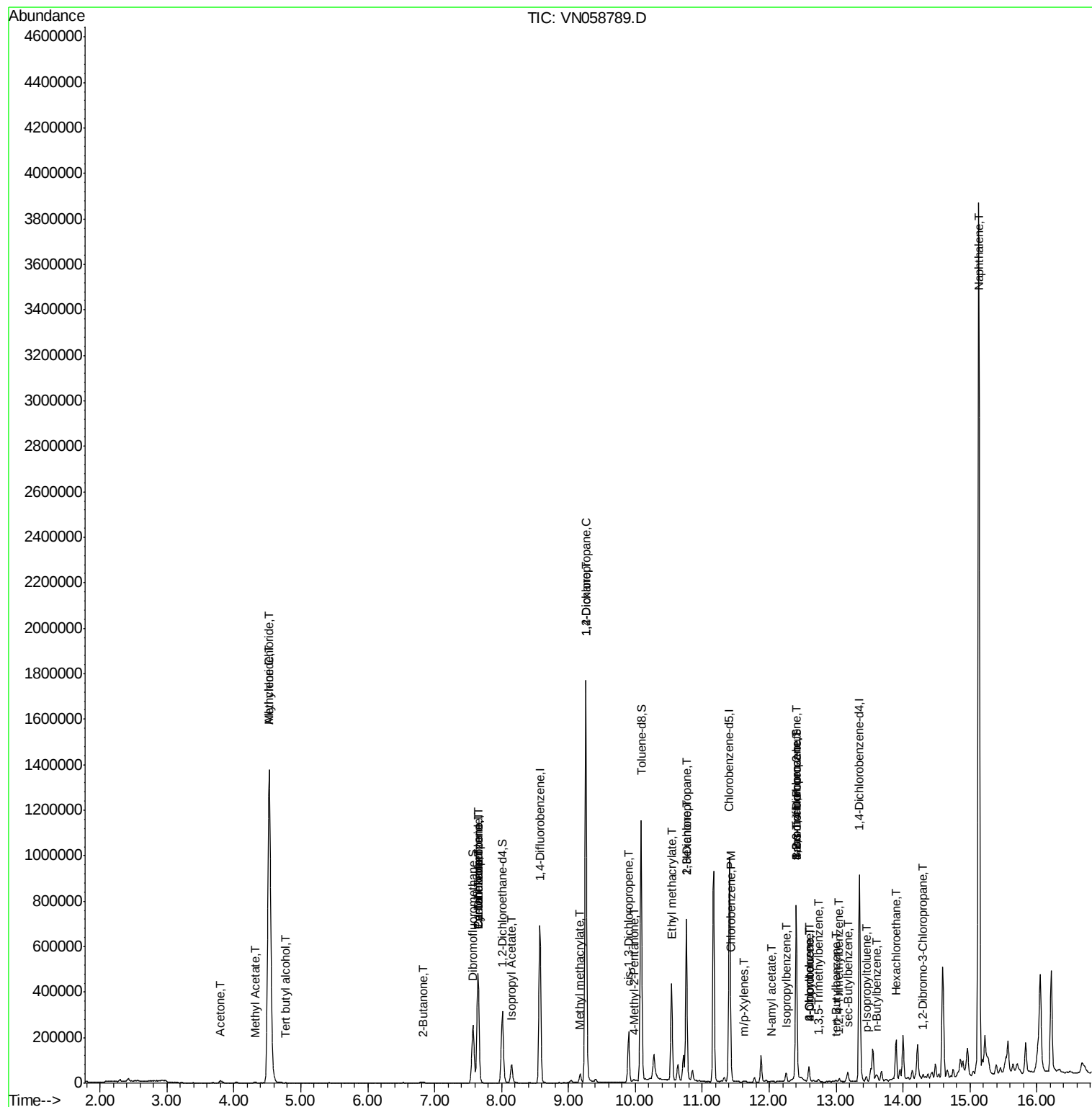
| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 90) Hexachloroethane           | 13.90 | 117  | 9468     | 3.664   | ug/l # | 10       |
| 92) 1,2-Dibromo-3-Chloropropan | 14.30 | 75   | 380      | 0.299   | ug/l # | 5        |
| 95) Naphthalene                | 15.13 | 128  | 2974048  | 235.311 | ug/l   | 98       |

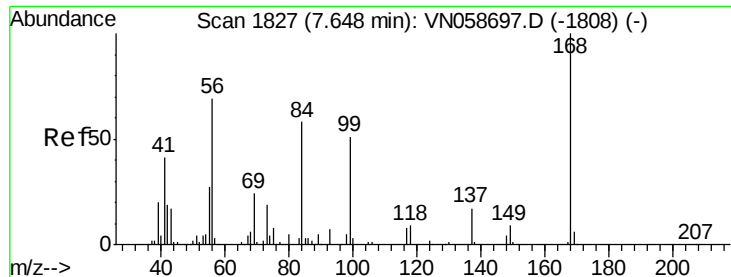
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1827

Delta R.T. 0.00 min

Lab File: VN058789.D

Acq: 15 Oct 2019 17:44

Instrument :

MSVOA\_N

ClientSampleId :

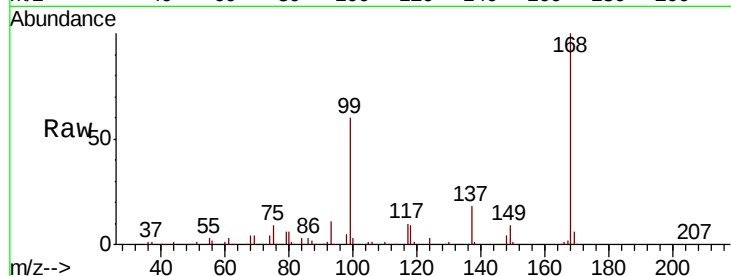
IDW-SO-101019

Tot Ion:168 Resp: 375008

Ion Ratio Lower Upper

168 100

99 60.1 47.5 71.3



Abundance Ion 167.90 (167.60 to 168.60): VN058697.D (-1808) (-)

Ion 98.90 (98.60 to 99.60): VN058697.D (-1808) (-)

7.65

150000

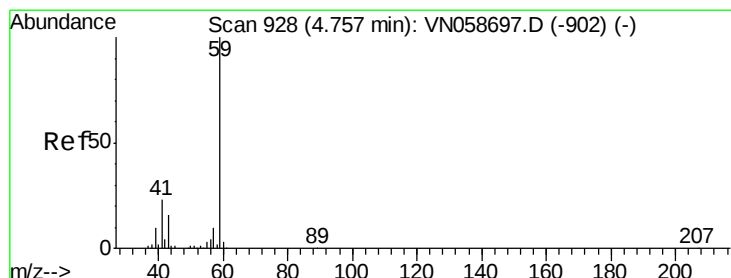
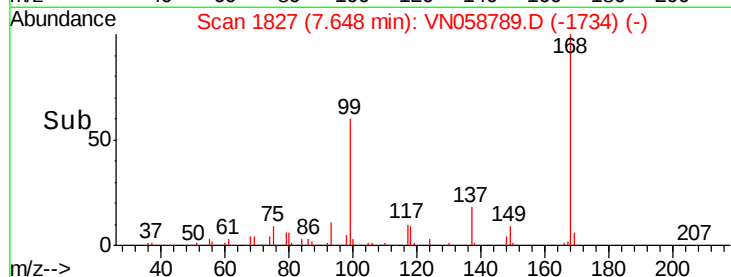
100000

50000

0

7.60 7.70 7.80

Time-->



#11

Tert butyl alcohol

Concen: 0.426 ug/l

RT: 4.76 min Scan# 930

Delta R.T. 0.01 min

Lab File: VN058789.D

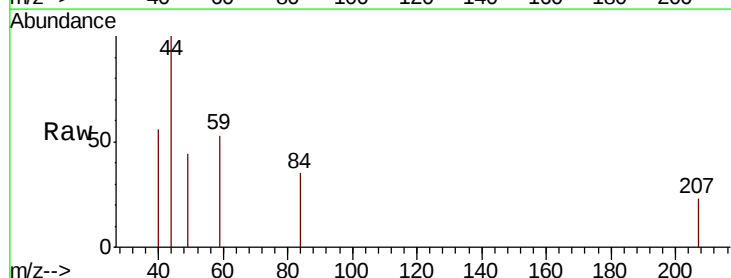
Acq: 15 Oct 2019 17:44

Tgt Ion: 59 Resp: 362

Ion Ratio Lower Upper

59 100

57 0.0 8.4 12.6#



Abundance Ion 59.00 (58.70 to 59.70): VN058697.D (-902) (-)

Ion 57.00 (56.70 to 57.70): VN058697.D (-902) (-)

4.76

400

300

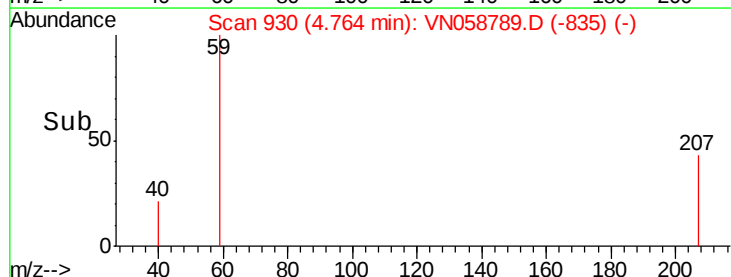
200

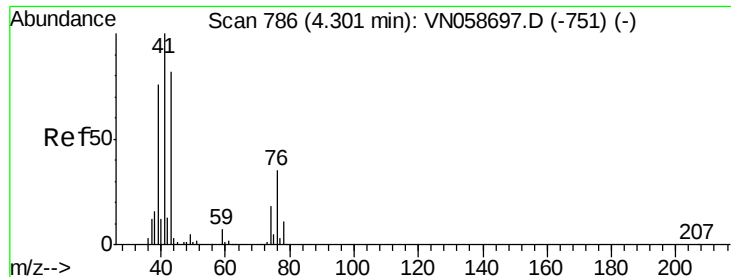
100

0

4.74 4.76 4.78

Time-->





#14

Allvl chloride

Concen: 5.113 ug/l

RT: 4.53 min Scan# 857

Delta R.T. 0.23 min

Lab File: VN058789.D

Acq: 15 Oct 2019 17:44

Instrument :

MSVOA\_N

ClientSampleId :

IDW-SO-101019

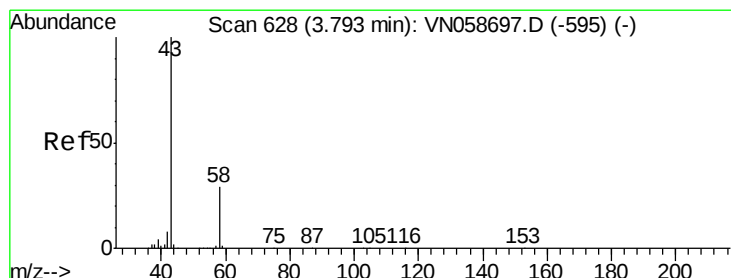
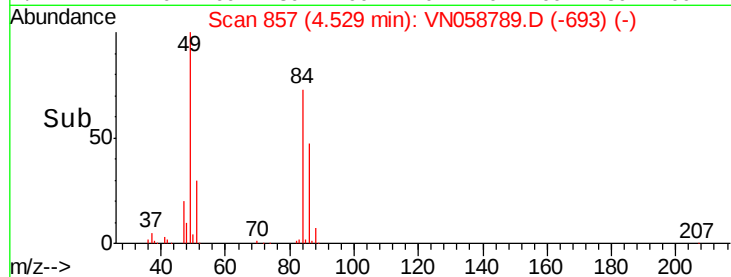
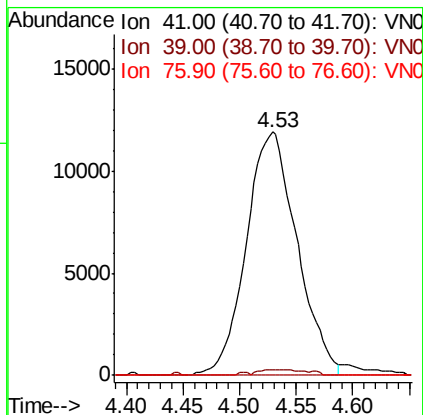
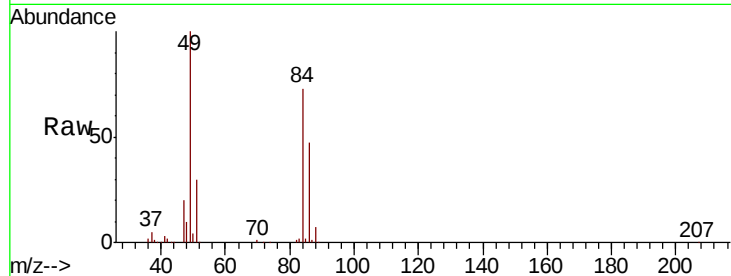
Tot Ion: 41 Resp: 37163

Ion Ratio Lower Upper

41 100

39 0.8 57.2 85.8#

76 0.0 25.0 37.6#



#16

Acetone

Concen: 6.946 ug/l

RT: 3.80 min Scan# 629

Delta R.T. 0.00 min

Lab File: VN058789.D

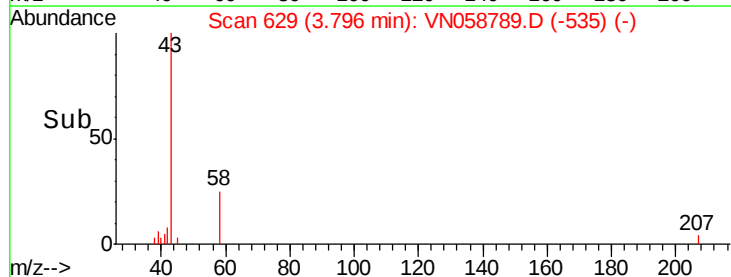
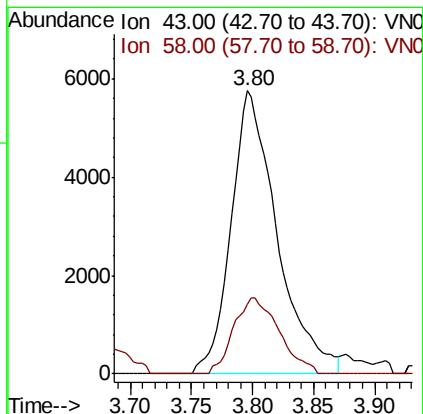
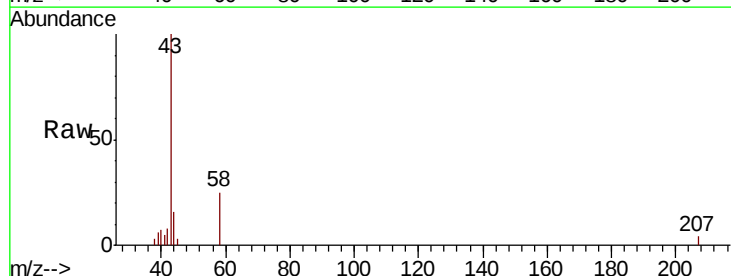
Acq: 15 Oct 2019 17:44

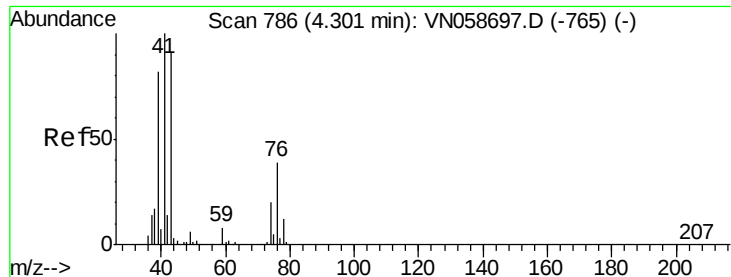
Tgt Ion: 43 Resp: 15096

Ion Ratio Lower Upper

43 100

58 24.6 23.3 34.9

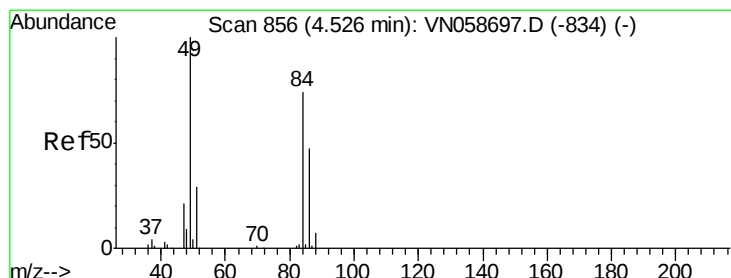
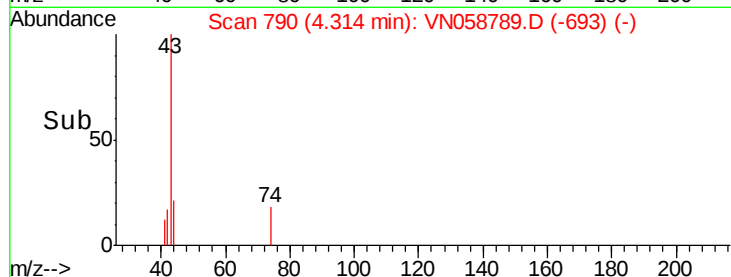
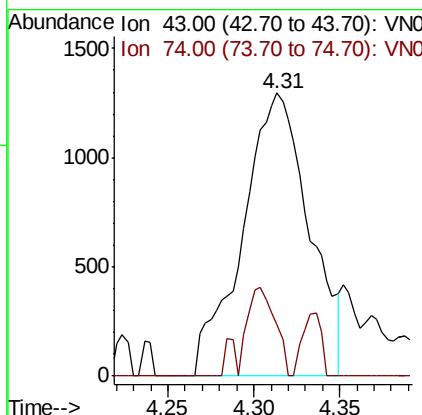
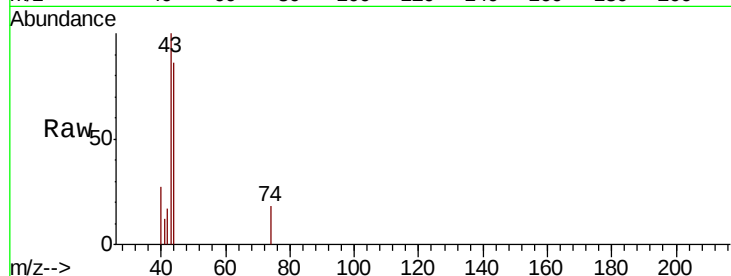




#18  
Methyl Acetate  
Concen: 0.632 ug/l  
RT: 4.31 min Scan# 790  
Delta R.T. 0.01 min  
Lab File: VN058789.D  
Acq: 15 Oct 2019 17:44

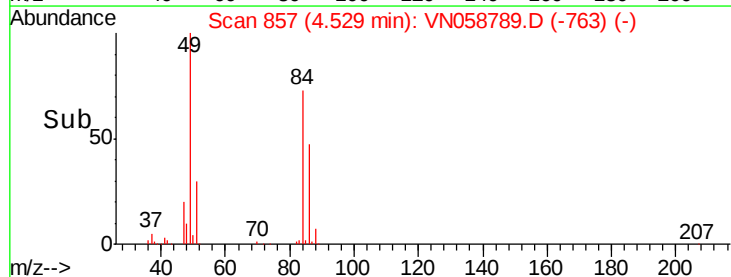
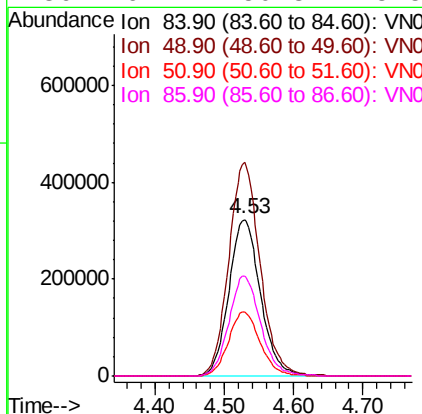
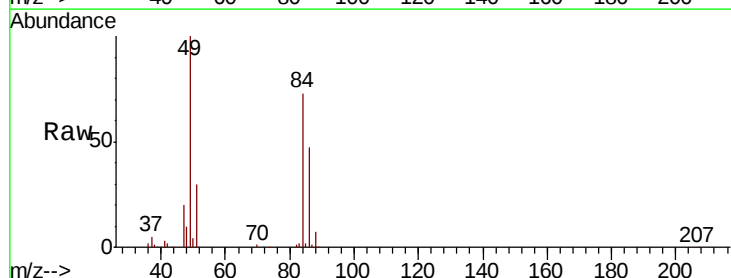
Instrument :  
MSVOA\_N  
ClientSampleId :  
IDW-SO-101019

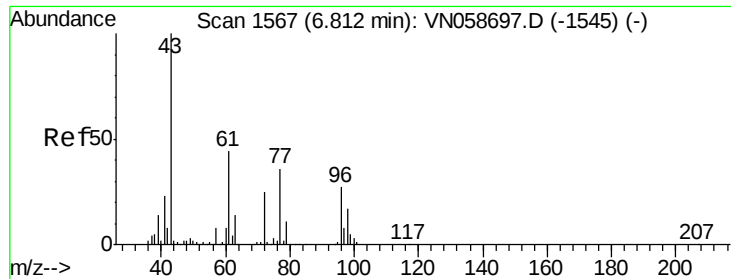
Tot Ion: 43 Resp: 3482  
Ion Ratio Lower Upper  
43 100  
74 13.0 17.2 25.8#



#20  
Methylene Chloride  
Concen: 226.047 ug/l  
RT: 4.53 min Scan# 857  
Delta R.T. 0.00 min  
Lab File: VN058789.D  
Acq: 15 Oct 2019 17:44

Tgt Ion: 84 Resp: 1026816  
Ion Ratio Lower Upper  
84 100  
49 136.3 107.6 161.4  
51 41.2 31.4 47.0  
86 64.1 50.3 75.5





#25

2-Butanone

Concen: 1.380 ug/l

RT: 6.83 min Scan# 1572

Delta R.T. 0.02 min

Lab File: VN058789.D

Acq: 15 Oct 2019 17:44

Instrument :

MSVOA\_N

ClientSampleId :

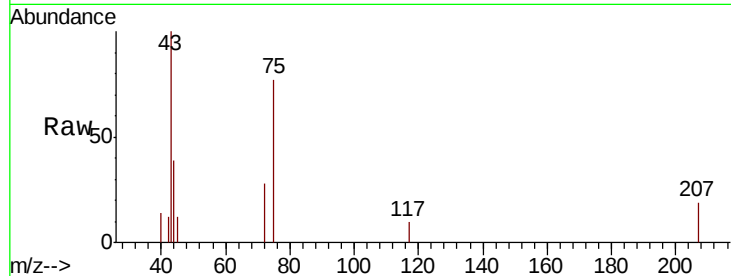
IDW-SO-101019

Tot Ion: 43 Resp: 4335

Ion Ratio Lower Upper

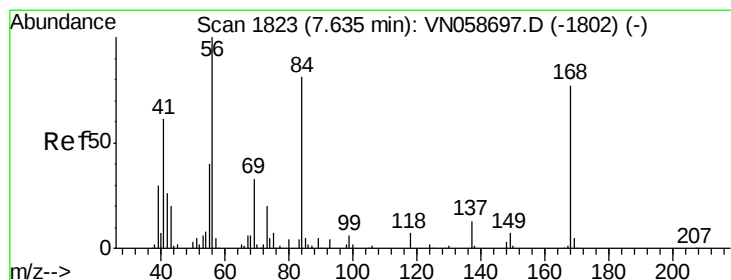
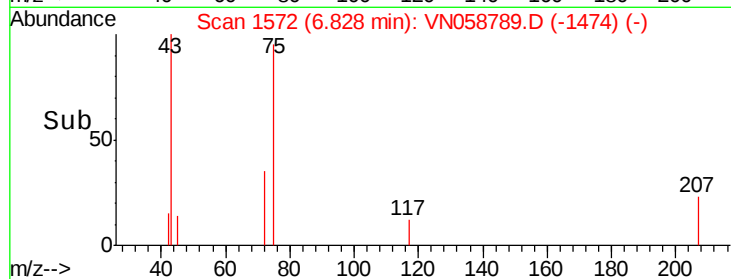
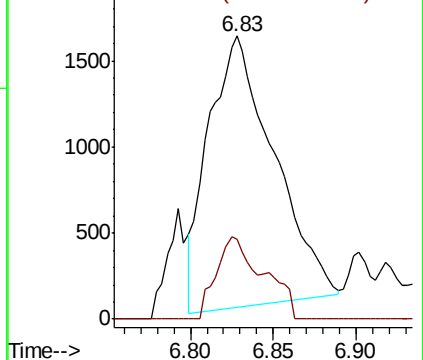
43 100

72 31.6 20.2 30.2#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0



#31

Cyclohexane

Concen: 1.174 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. 0.01 min

Lab File: VN058789.D

Acq: 15 Oct 2019 17:44

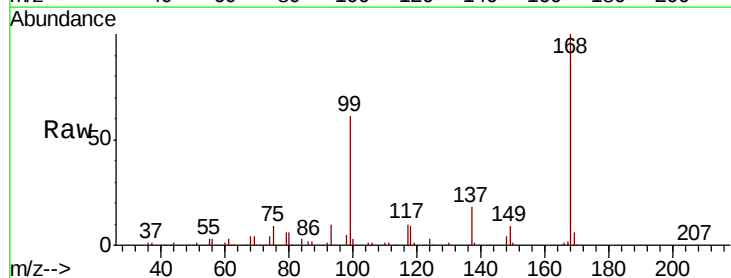
Tgt Ion: 56 Resp: 9038

Ion Ratio Lower Upper

56 100

69 164.2 26.2 39.4#

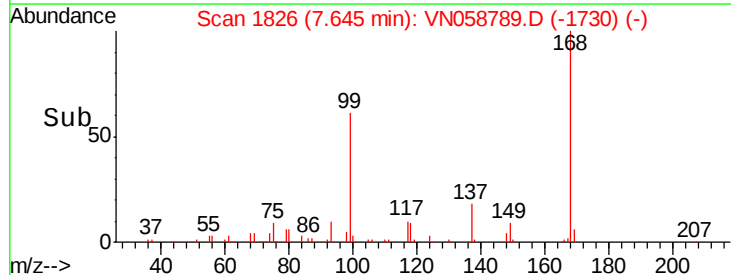
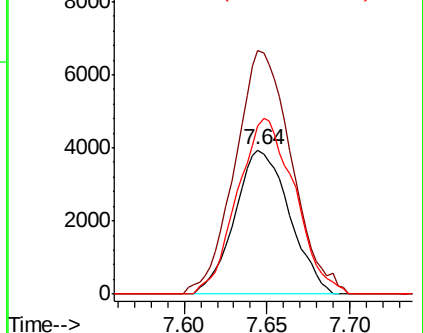
84 116.3 64.9 97.3#

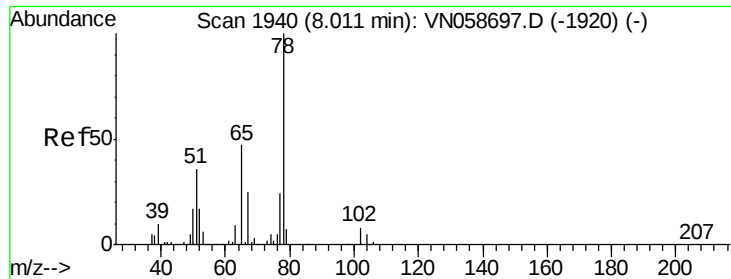


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0

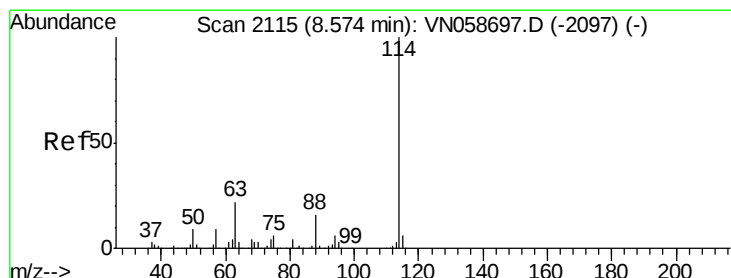
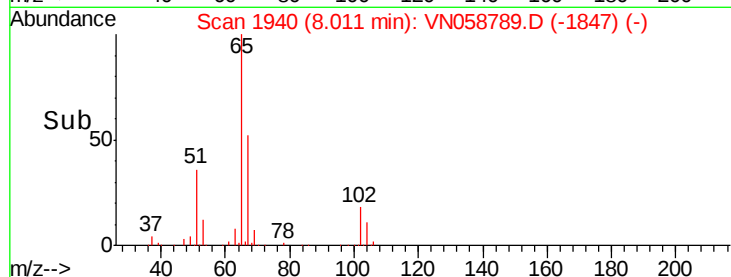
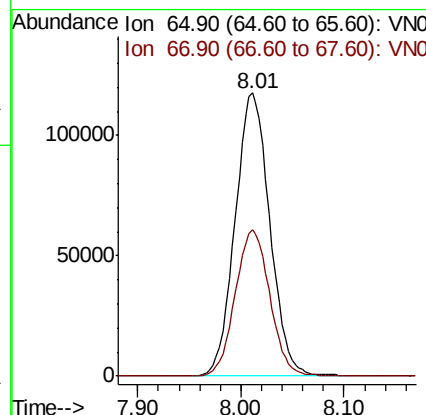
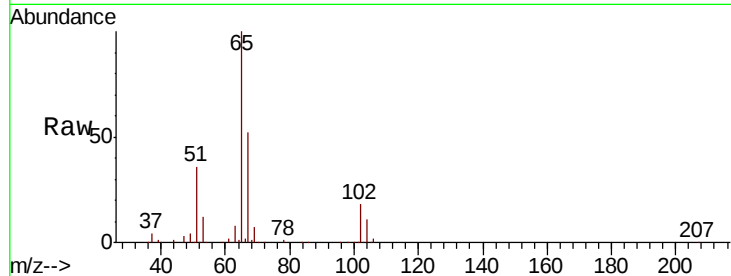




#33  
 1,2-Dichloroethane-d4  
 Concen: 52.483 ug/l  
 RT: 8.01 min Scan# 1940  
 Delta R.T. 0.00 min  
 Lab File: VN058789.D  
 Acq: 15 Oct 2019 17:44

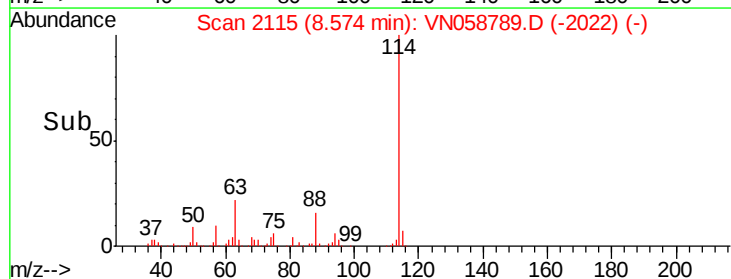
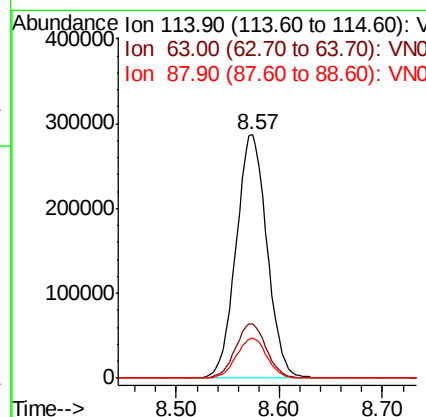
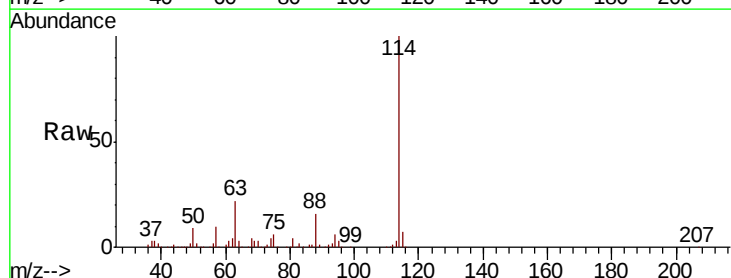
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 IDW-SO-101019

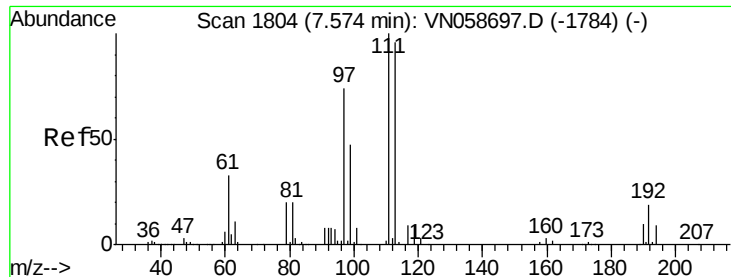
Tot Ion: 65 Resp: 275540  
 Ion Ratio Lower Upper  
 65 100  
 67 51.6 0.0 103.8



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.57 min Scan# 2115  
 Delta R.T. 0.00 min  
 Lab File: VN058789.D  
 Acq: 15 Oct 2019 17:44

Tgt Ion: 114 Resp: 597374  
 Ion Ratio Lower Upper  
 114 100  
 63 22.0 0.0 43.8  
 88 16.3 0.0 32.0

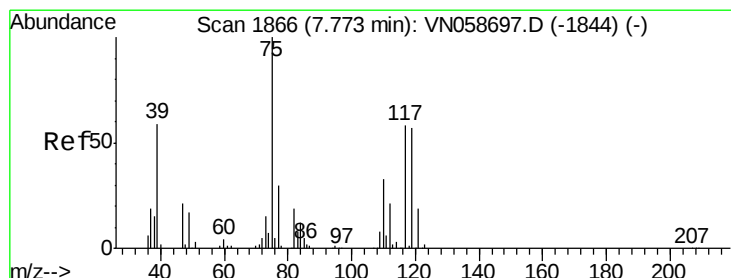
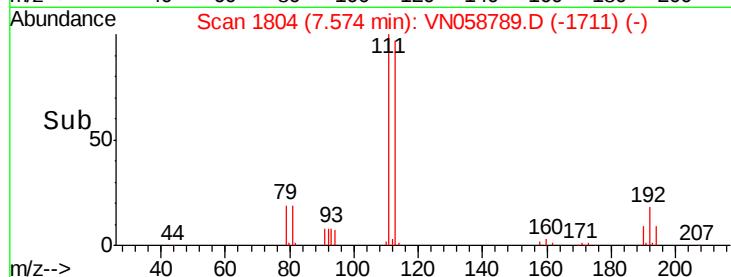
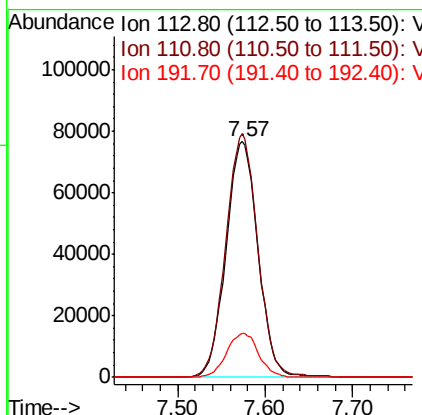
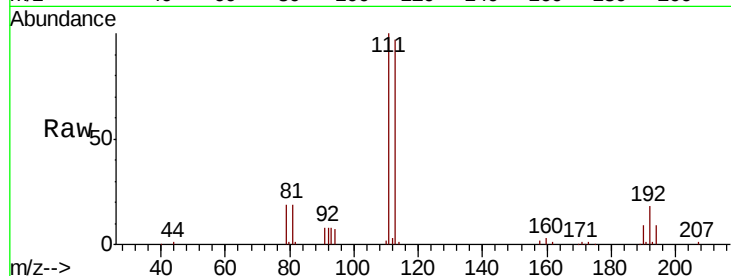




#35  
 Dibromofluoromethane  
 Concen: 52.736 ug/l  
 RT: 7.57 min Scan# 1804  
 Delta R.T. 0.00 min  
 Lab File: VN058789.D  
 Acq: 15 Oct 2019 17:44

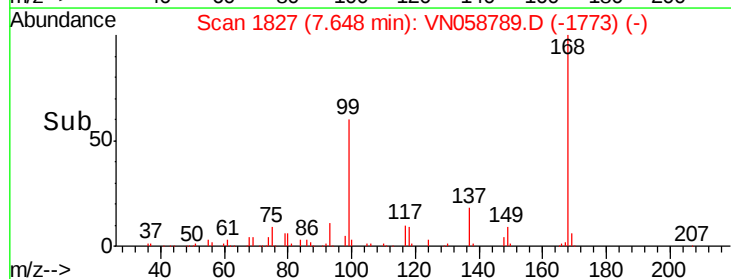
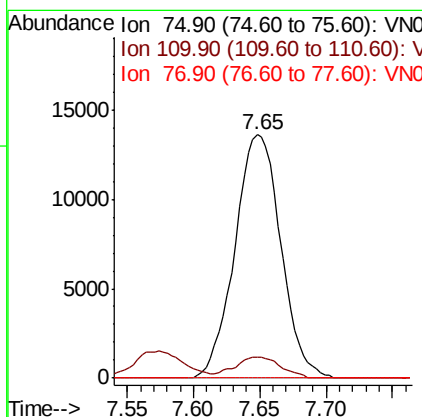
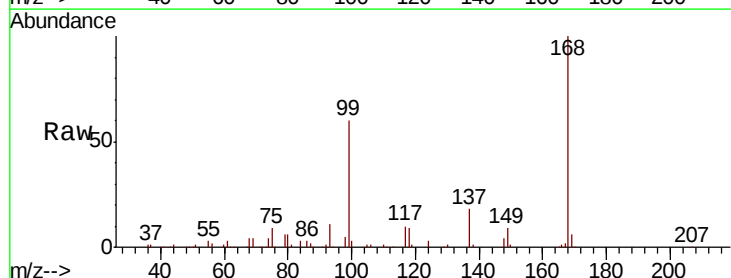
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 IDW-SO-101019

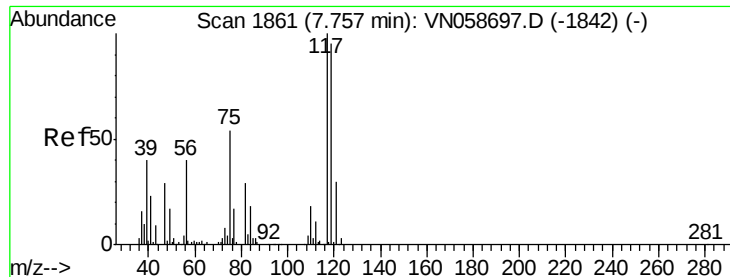
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 103.1 | 82.3  | 123.5 |
| 192     | 18.6  | 15.0  | 22.6  |



#36  
 1,1-Dichloropropene  
 Concen: 5.436 ug/l  
 RT: 7.65 min Scan# 1827  
 Delta R.T. -0.13 min  
 Lab File: VN058789.D  
 Acq: 15 Oct 2019 17:44

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 8.7   | 16.6  | 49.8# |
| 77      | 0.0   | 24.6  | 37.0# |





#38

Carbon Tetrachloride

Concen: 6.330 ug/l

RT: 7.65 min Scan# 1827

Delta R.T. -0.11 min

Lab File: VN058789.D

Acq: 15 Oct 2019 17:44

Instrument :

MSVOA\_N

ClientSampleId :

IDW-SO-101019

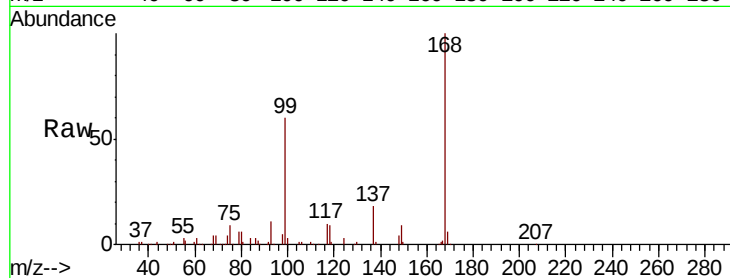
Tot Ion:117 Resp: 37261

Ion Ratio Lower Upper

117 100

119 5.9 75.7 113.5#

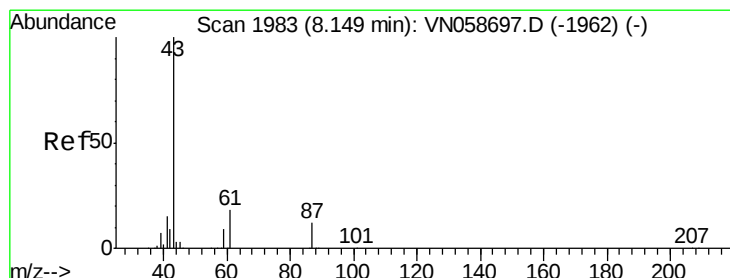
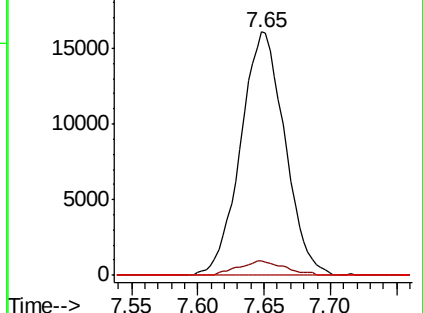
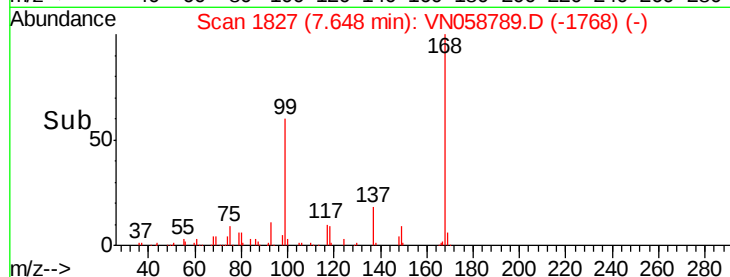
121 0.0 23.9 35.9#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#43

Isopropyl Acetate

Concen: 9.094 ug/l

RT: 8.15 min Scan# 1983

Delta R.T. 0.00 min

Lab File: VN058789.D

Acq: 15 Oct 2019 17:44

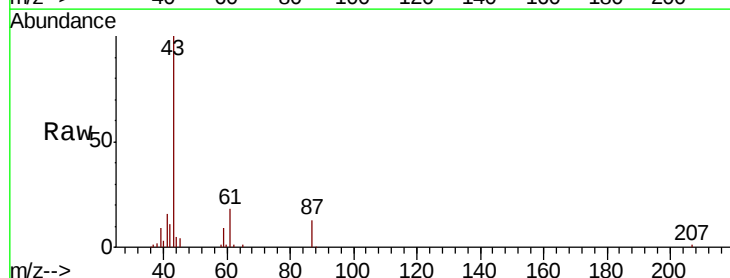
Tgt Ion: 43 Resp: 94628

Ion Ratio Lower Upper

43 100

61 18.5 20.3 30.5#

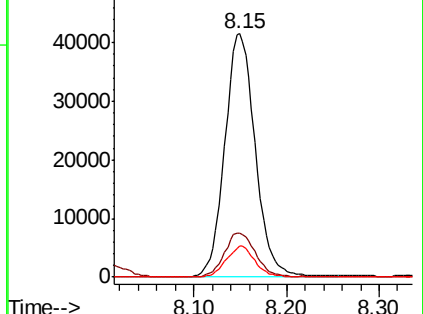
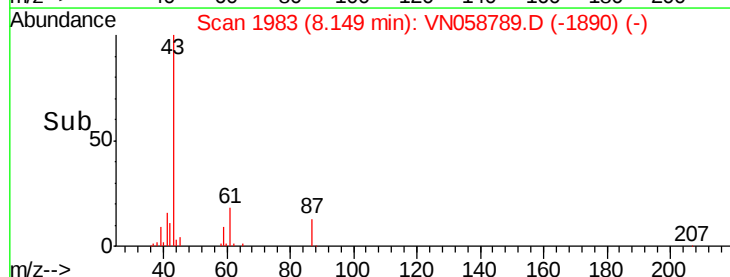
87 11.9 9.8 14.6

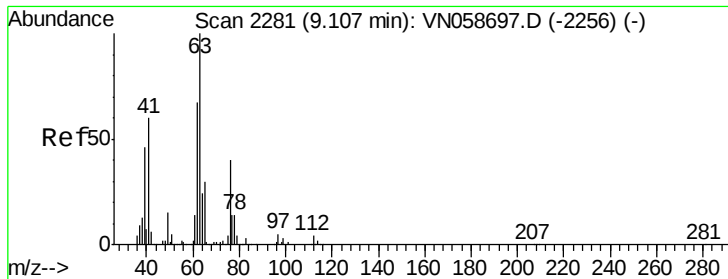


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V

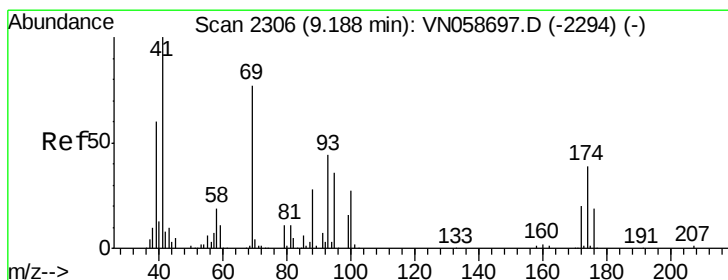
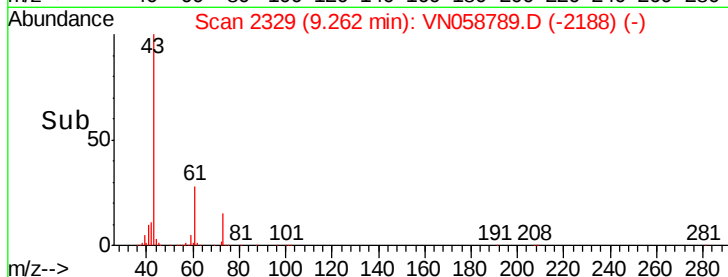
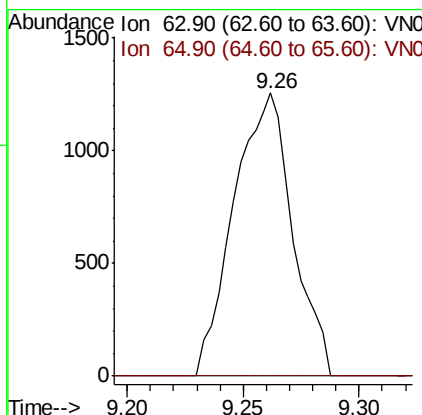
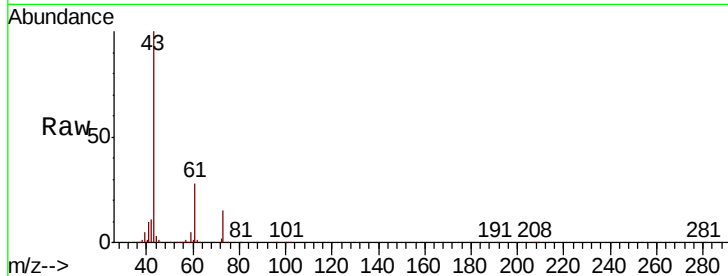




#45  
 1,2-Dichloropropane  
 Concen: 0.477 ug/l  
 RT: 9.26 min Scan# 2329  
 Delta R.T. 0.15 min  
 Lab File: VN058789.D  
 Acq: 15 Oct 2019 17:44

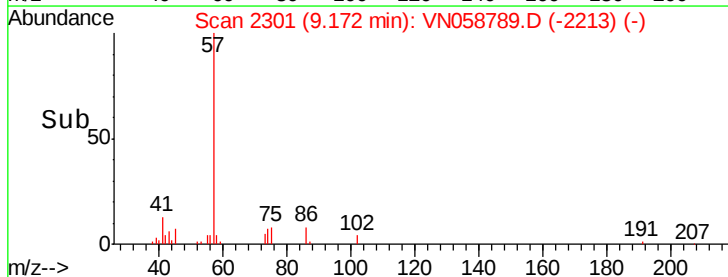
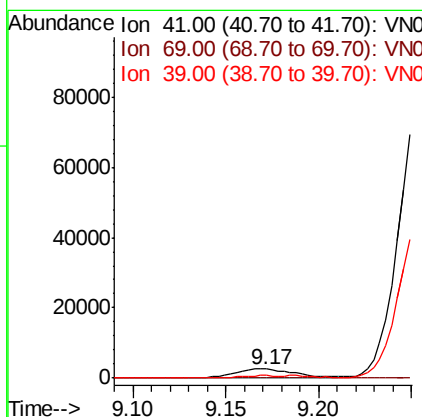
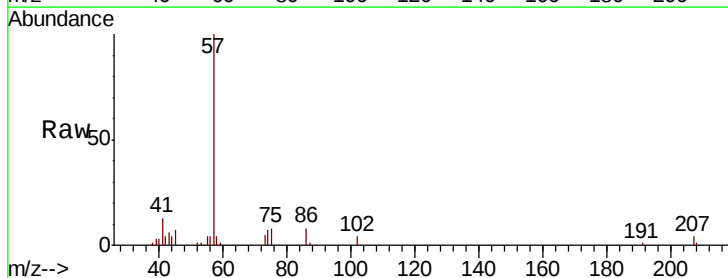
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 IDW-SO-101019

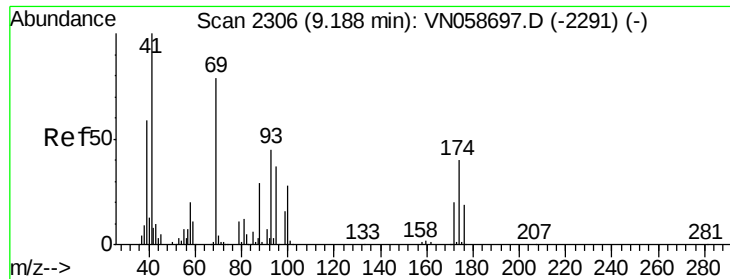
Tot Ion: 63 Resp: 2217  
 Ion Ratio Lower Upper  
 63 100  
 65 0.0 24.1 36.1#



#48  
 Methyl methacrylate  
 Concen: 1.265 ug/l  
 RT: 9.17 min Scan# 2301  
 Delta R.T. -0.02 min  
 Lab File: VN058789.D  
 Acq: 15 Oct 2019 17:44

Tgt Ion: 41 Resp: 5968  
 Ion Ratio Lower Upper  
 41 100  
 69 0.0 63.4 95.2#  
 39 0.0 48.9 73.3#





#49

1,4-Dioxane

Concen: 0.904 ug/l

RT: 9.26 min Scan# 2328

Delta R.T. 0.07 min

Lab File: VN058789.D

Acq: 15 Oct 2019 17:44

Instrument :

MSVOA\_N

ClientSampleId :

IDW-SO-101019

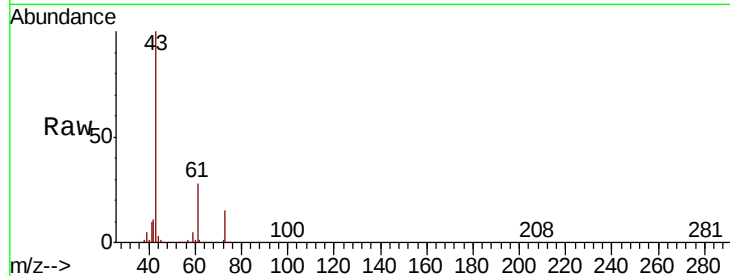
Tot Ion: 88 Resp: 66

Ion Ratio Lower Upper

88 100

43 2624721.2 28.6 43.0#

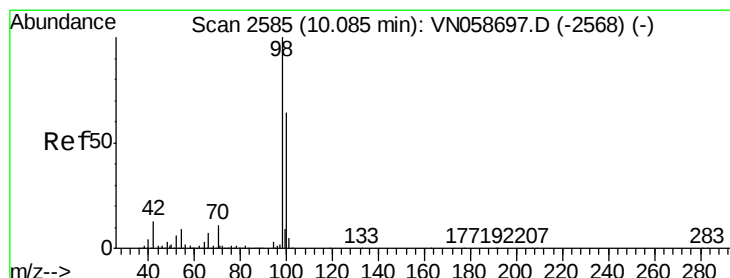
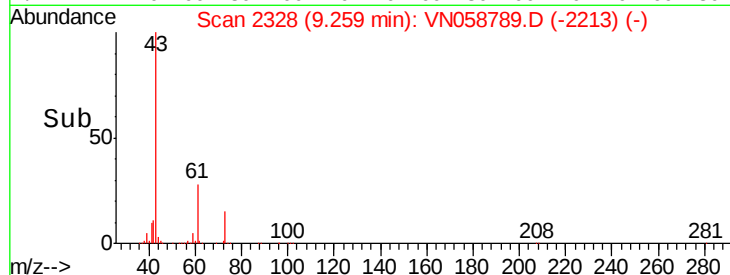
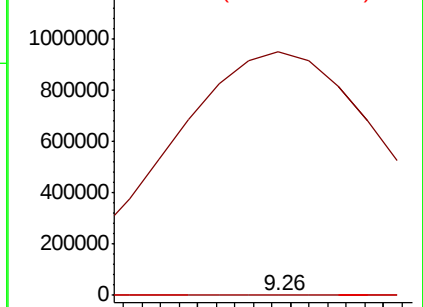
58 12201.5 57.2 85.8#



Abundance Ion 88.00 (87.70 to 88.70): VN0

Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#50

Toluene-d8

Concen: 51.824 ug/l

RT: 10.09 min Scan# 2585

Delta R.T. 0.00 min

Lab File: VN058789.D

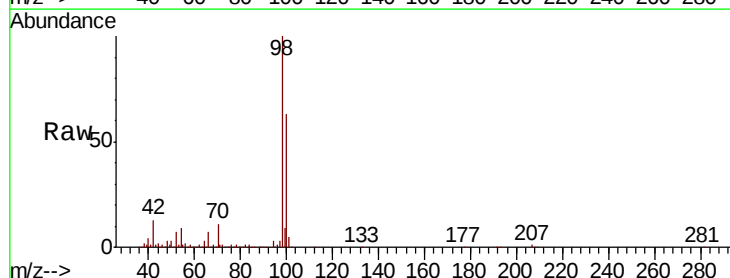
Acq: 15 Oct 2019 17:44

Tgt Ion: 98 Resp: 764675

Ion Ratio Lower Upper

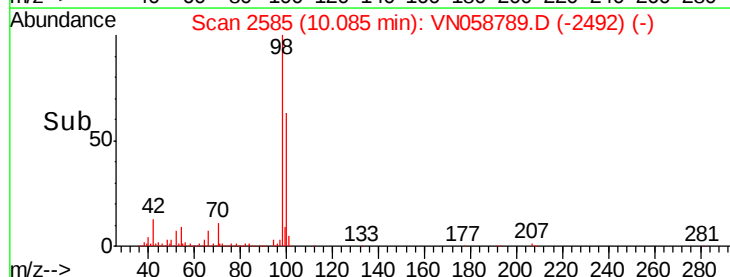
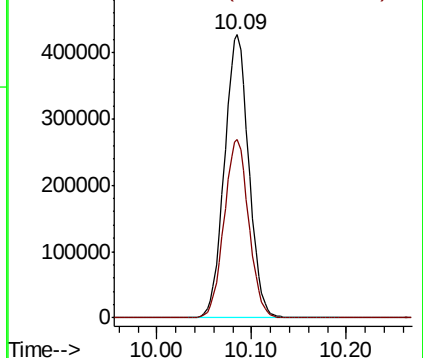
98 100

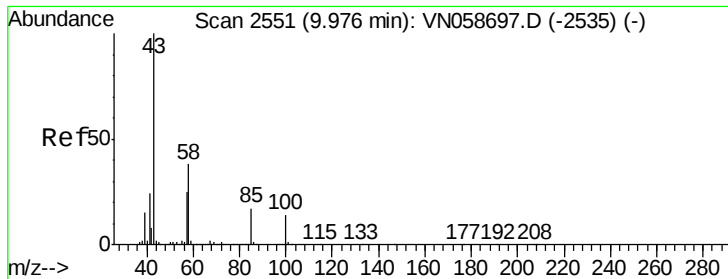
100 63.6 51.1 76.7



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0





#51

4-Methyl-2-Pentanone

Concen: 1.084 ug/l

RT: 9.98 min Scan# 2551

Delta R.T. 0.00 min

Lab File: VN058789.D

Acq: 15 Oct 2019 17:44

Instrument :

MSVOA\_N

ClientSampleId :

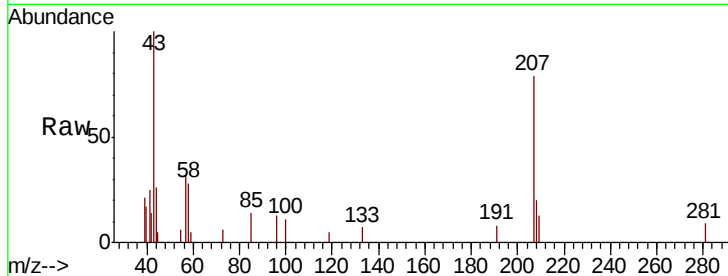
IDW-SO-101019

Tot Ion: 43 Resp: 6337

Ion Ratio Lower Upper

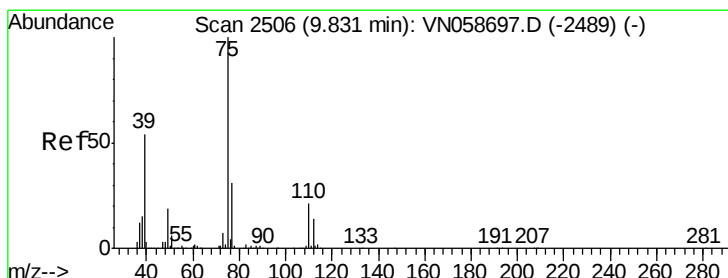
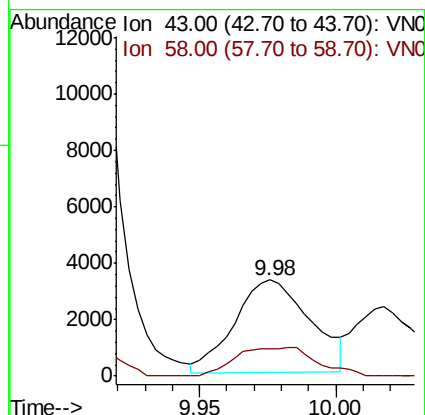
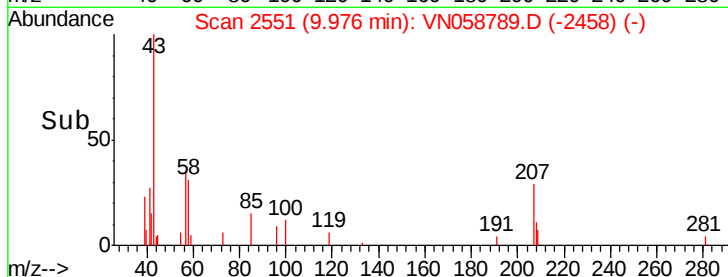
43 100

58 33.6 30.3 45.5



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#54

cis-1,3-Dichloropropene

Concen: 5.016 ug/l

RT: 9.90 min Scan# 2527

Delta R.T. 0.07 min

Lab File: VN058789.D

Acq: 15 Oct 2019 17:44

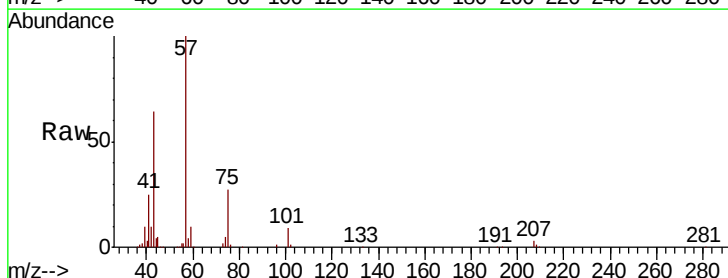
Tgt Ion: 75 Resp: 36623

Ion Ratio Lower Upper

75 100

77 0.0 24.4 36.6#

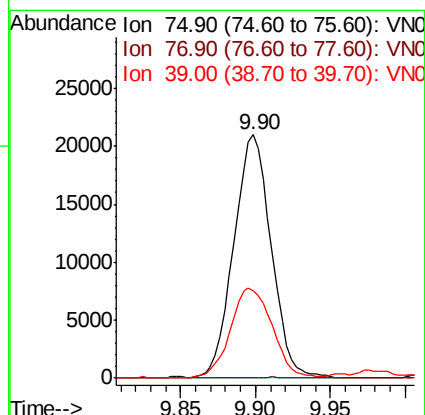
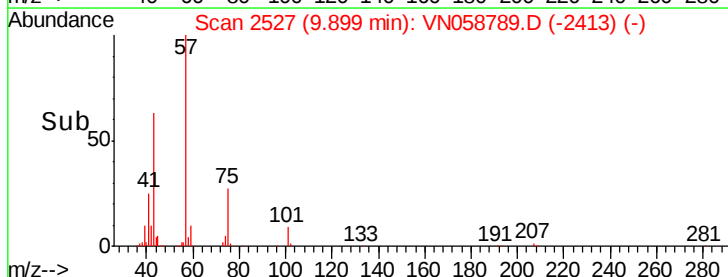
39 36.0 43.1 64.7#

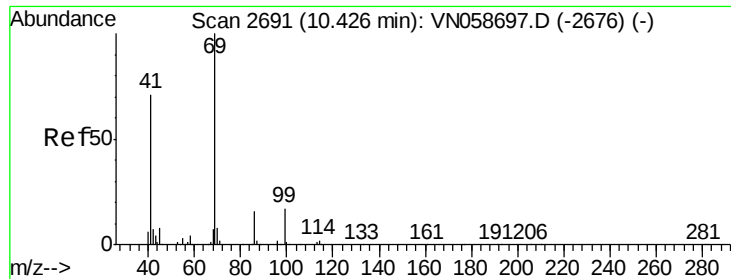


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0





#56

Ethyl methacrylate

Concen: 0.264 ug/l

RT: 10.54 min Scan# 2727

Delta R.T. 0.12 min

Lab File: VN058789.D

Acq: 15 Oct 2019 17:44

Instrument :

MSVOA\_N

ClientSampleId :

IDW-SO-101019

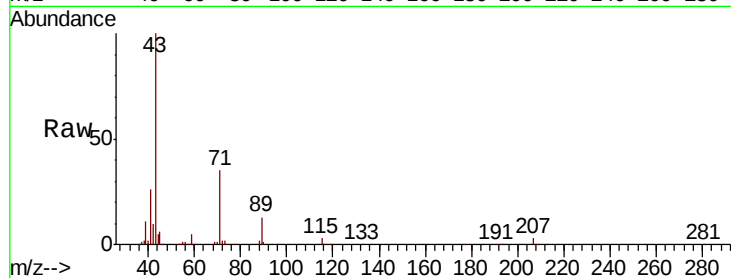
Tot Ion: 69 Resp: 1676

Ion Ratio Lower Upper

69 100

41 4918.5 56.8 85.2#

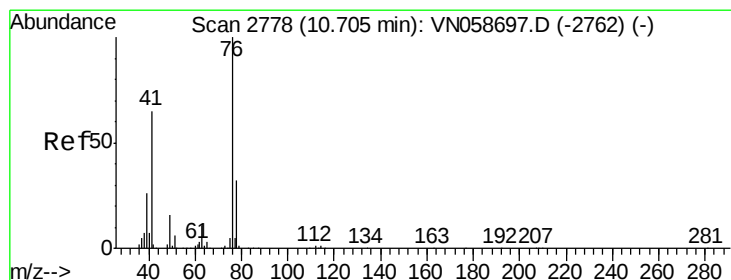
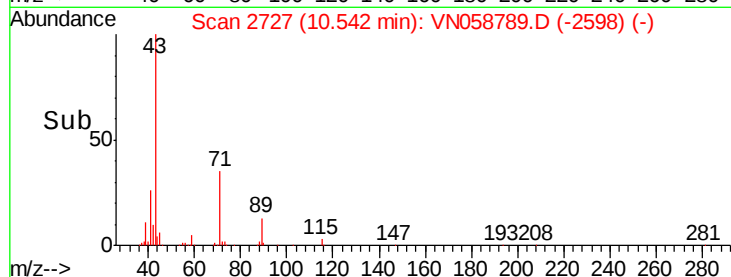
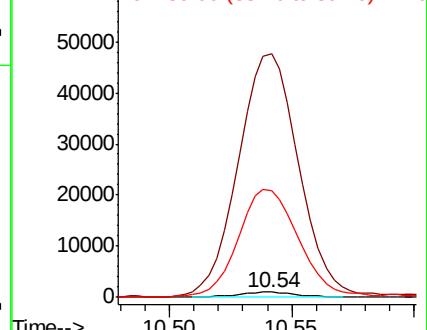
39 2178.6 32.5 48.7#



Abundance Ion 69.00 (68.70 to 69.70): VN0

Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0



#57

1,3-Dichloropropane

Concen: 0.977 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.06 min

Lab File: VN058789.D

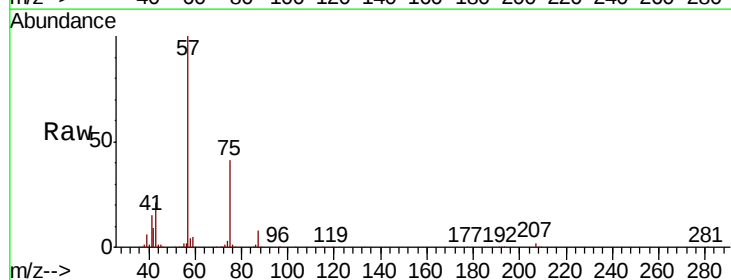
Acq: 15 Oct 2019 17:44

Tgt Ion: 76 Resp: 7229

Ion Ratio Lower Upper

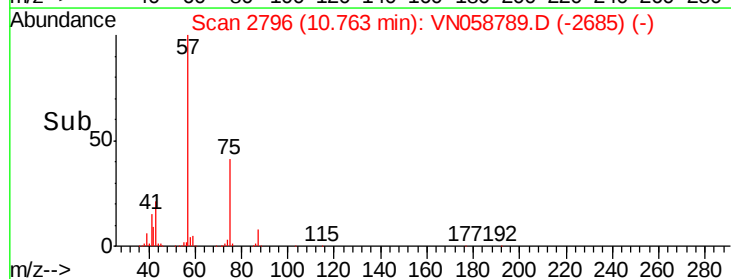
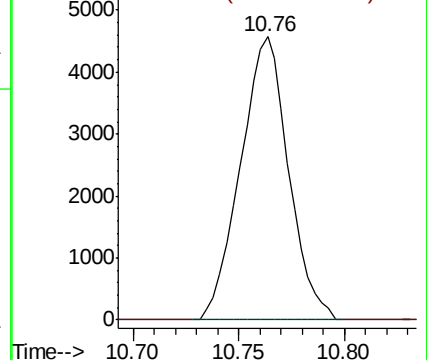
76 100

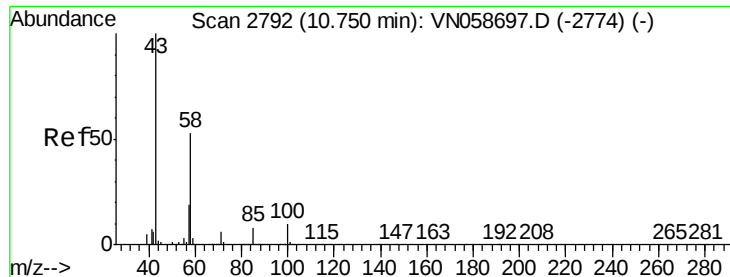
78 0.0 25.9 38.9#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

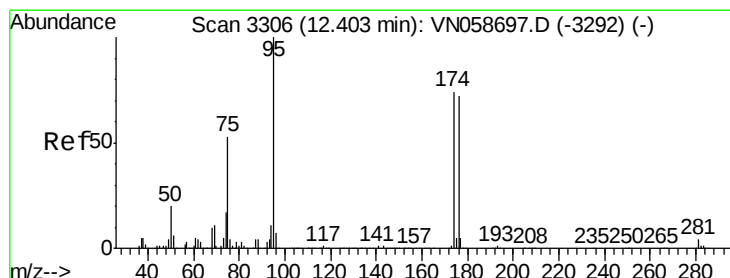
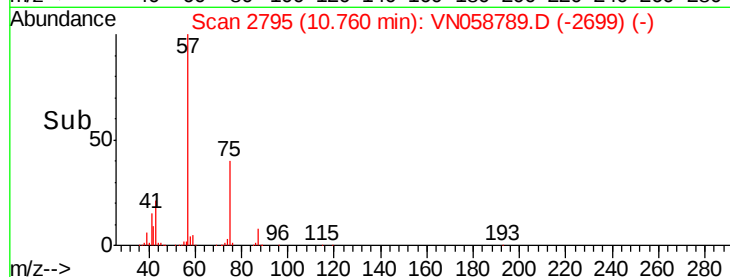
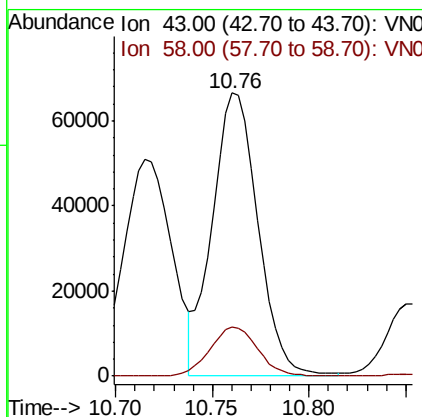
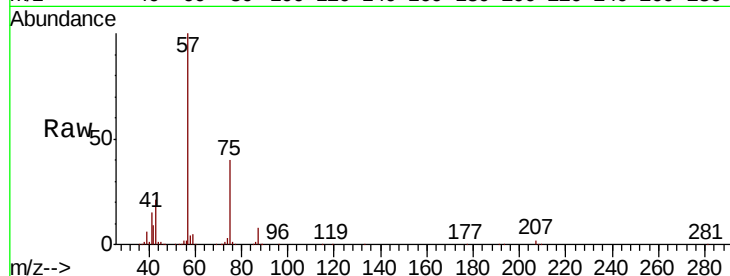




#59  
2-Hexanone  
Concen: 24.029 ug/l  
RT: 10.76 min Scan# 2795  
Delta R.T. 0.01 min  
Lab File: VN058789.D  
Acq: 15 Oct 2019 17:44

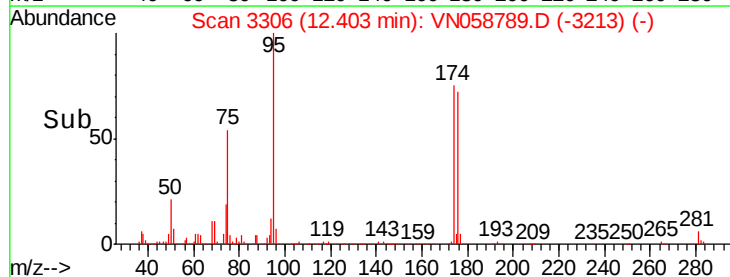
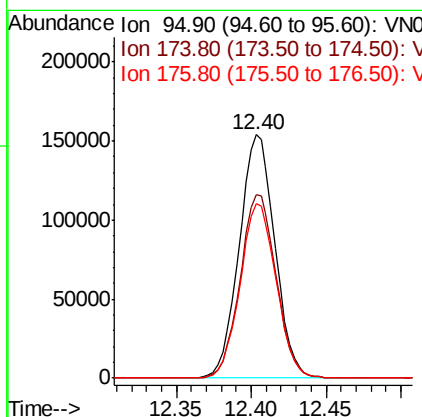
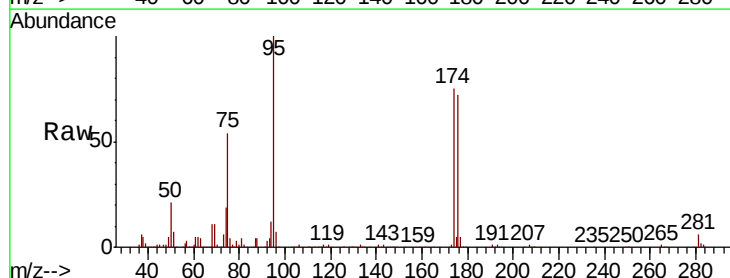
Instrument :  
MSVOA\_N  
ClientSampleId :  
IDW-SO-101019

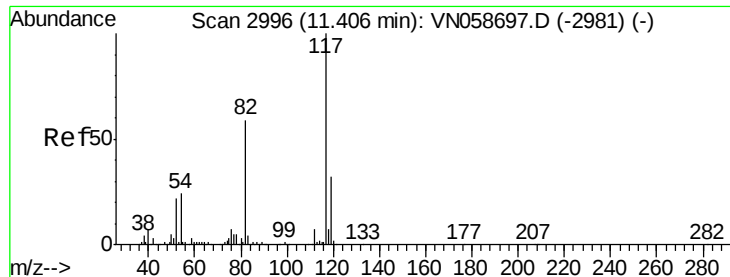
Tot Ion: 43 Resp: 108520  
Ion Ratio Lower Upper  
43 100  
58 18.4 26.1 78.3#



#62  
4-Bromofluorobenzene  
Concen: 45.584 ug/l  
RT: 12.40 min Scan# 3306  
Delta R.T. 0.00 min  
Lab File: VN058789.D  
Acq: 15 Oct 2019 17:44

Tgt Ion: 95 Resp: 254597  
Ion Ratio Lower Upper  
95 100  
174 76.3 0.0 150.4  
176 72.7 0.0 146.8

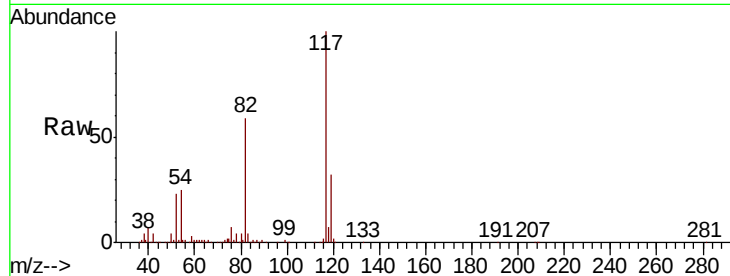




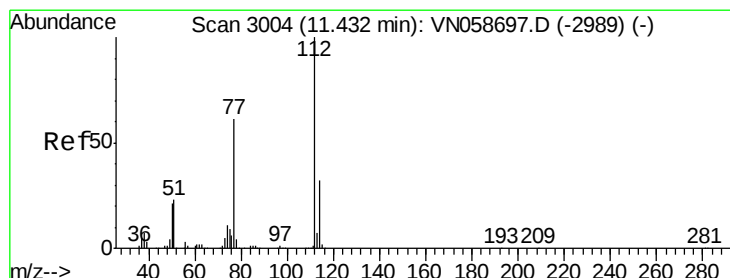
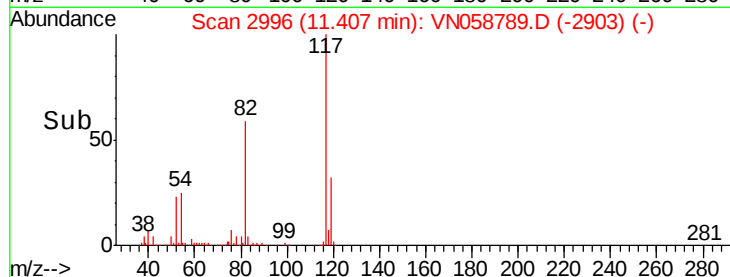
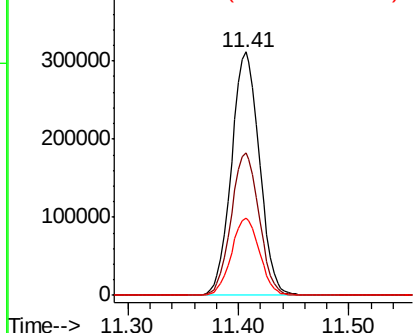
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.41 min Scan# 2996  
Delta R.T. 0.00 min  
Lab File: VN058789.D  
Acq: 15 Oct 2019 17:44

Instrument :  
MSVOA\_N  
ClientSampleId :  
IDW-SO-101019

Tot Ion:117 Resp: 548333  
Ion Ratio Lower Upper  
117 100  
82 58.6 47.0 70.4  
119 31.9 25.4 38.2

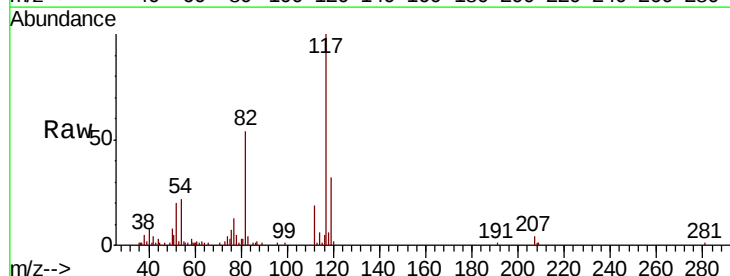


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): VN  
Ion 118.90 (118.60 to 119.60): V

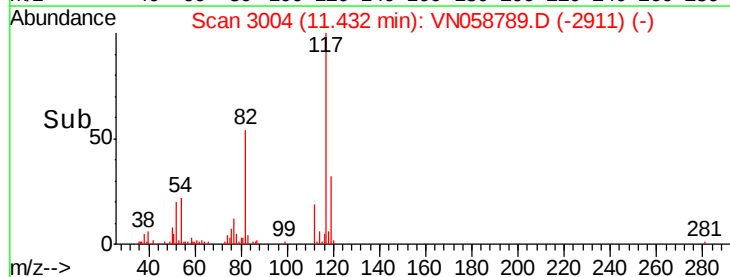
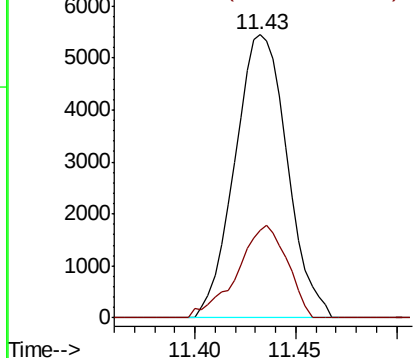


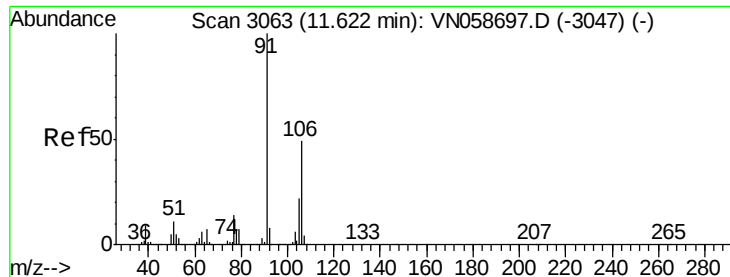
#65  
Chlorobenzene  
Concen: 0.890 ug/l  
RT: 11.43 min Scan# 3004  
Delta R.T. 0.00 min  
Lab File: VN058789.D  
Acq: 15 Oct 2019 17:44

Tgt Ion:112 Resp: 9907  
Ion Ratio Lower Upper  
112 100  
114 31.1 25.2 37.8



Abundance Ion 111.90 (111.60 to 112.60): V  
Ion 113.90 (113.60 to 114.60): V

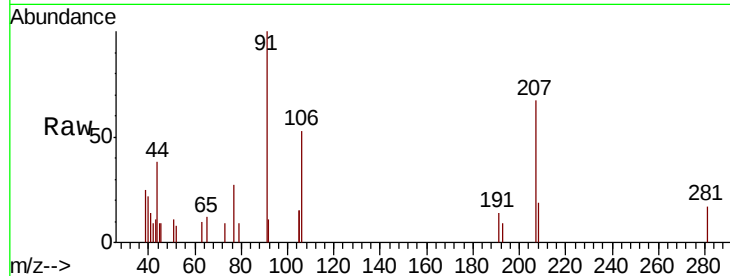




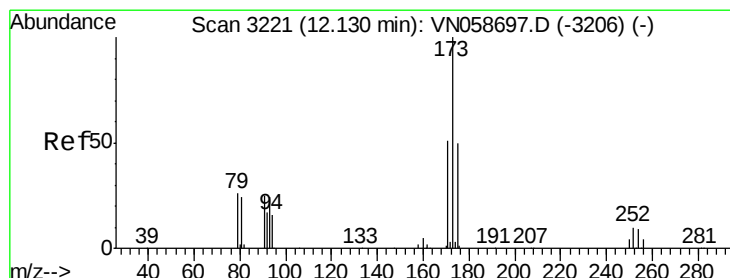
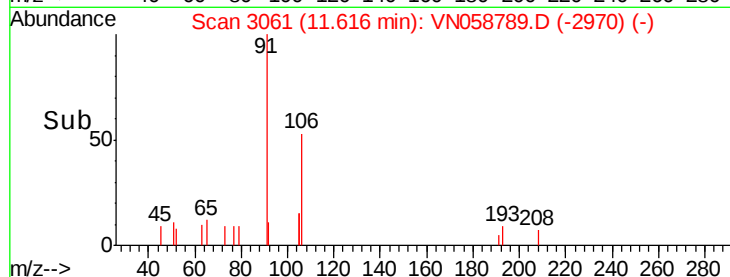
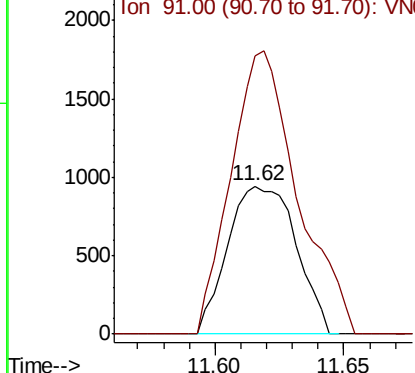
#68  
m/p-Xvlenes  
Concen: 0.234 ug/l  
RT: 11.62 min Scan# 3061  
Delta R.T. -0.01 min  
Lab File: VN058789.D  
Acq: 15 Oct 2019 17:44

Instrument :  
MSVOA\_N  
ClientSampleId :  
IDW-SO-101019

Tot Ion:106 Resp: 1744  
Ion Ratio Lower Upper  
106 100  
91 186.4 165.7 248.5

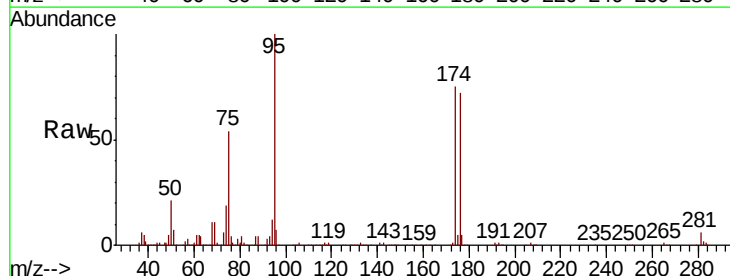


Abundance Ion 106.00 (105.70 to 106.70): V  
Ion 91.00 (90.70 to 91.70): VN

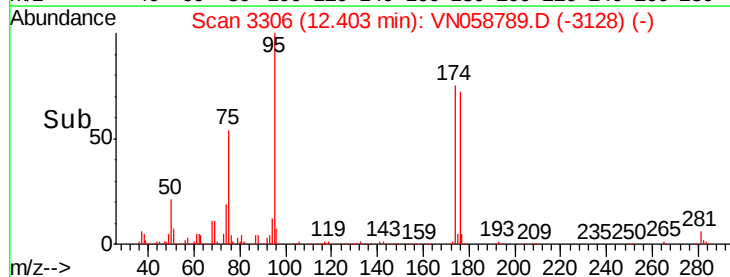
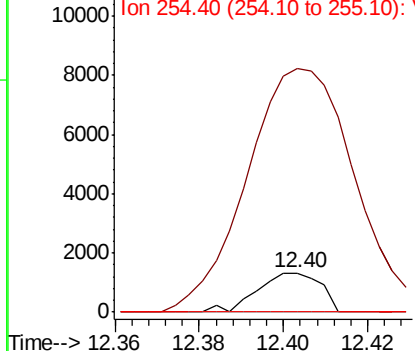


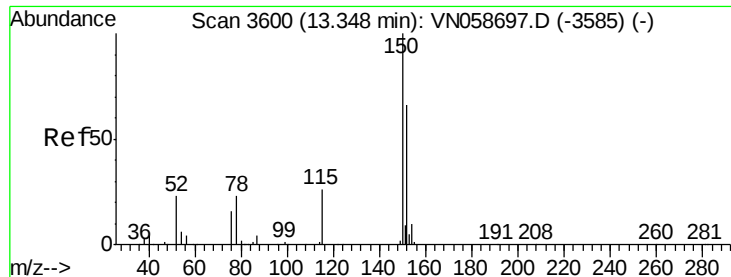
#71  
Bromoform  
Concen: 0.454 ug/l  
RT: 12.40 min Scan# 3306  
Delta R.T. 0.27 min  
Lab File: VN058789.D  
Acq: 15 Oct 2019 17:44

Tgt Ion:173 Resp: 1369  
Ion Ratio Lower Upper  
173 100  
175 942.4 24.6 73.8#  
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: VN058789.D

Acq: 15 Oct 2019 17:44

Instrument :

MSVOA\_N

ClientSampleId :

IDW-SO-101019

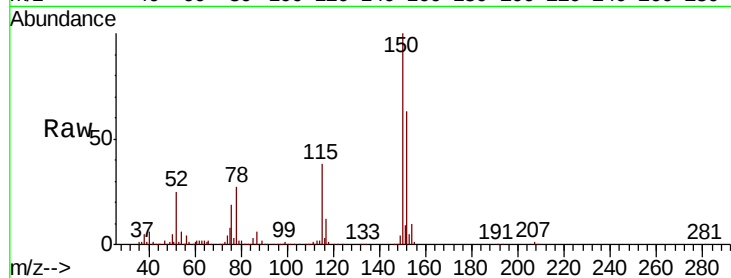
Tot Ion:152 Resp: 227686

Ion Ratio Lower Upper

152 100

115 61.6 30.4 91.2

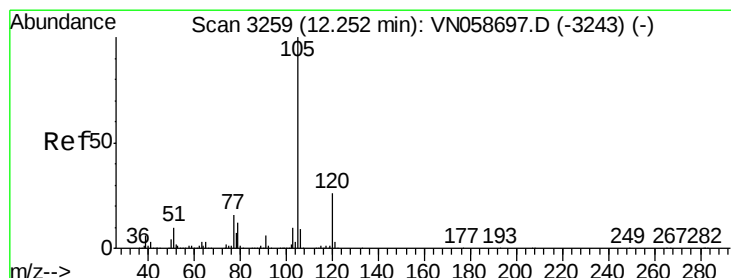
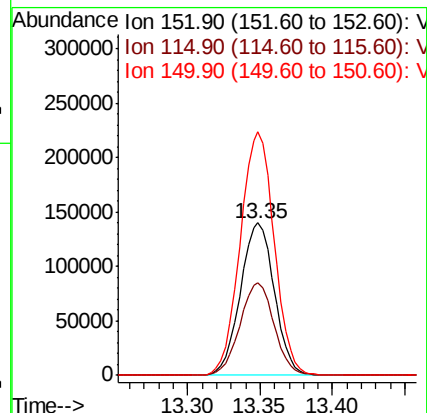
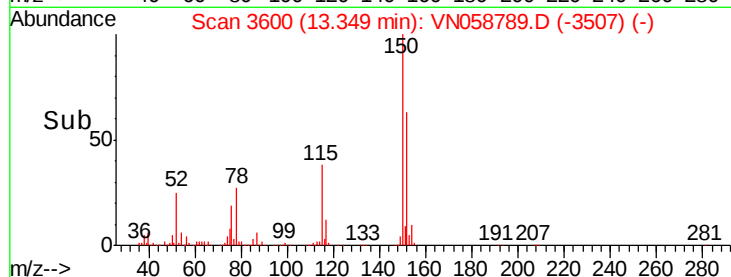
150 159.7 0.0 345.4



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: 1.503 ug/l

RT: 12.25 min Scan# 3259

Delta R.T. 0.00 min

Lab File: VN058789.D

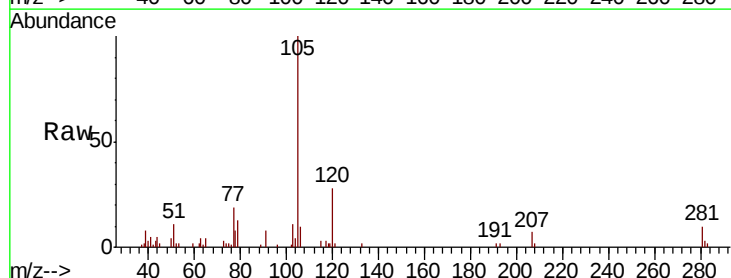
Acq: 15 Oct 2019 17:44

Tgt Ion:105 Resp: 24780

Ion Ratio Lower Upper

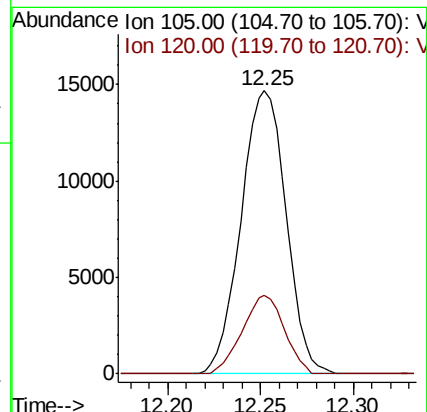
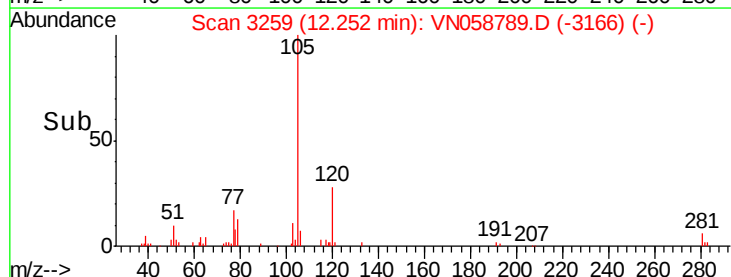
105 100

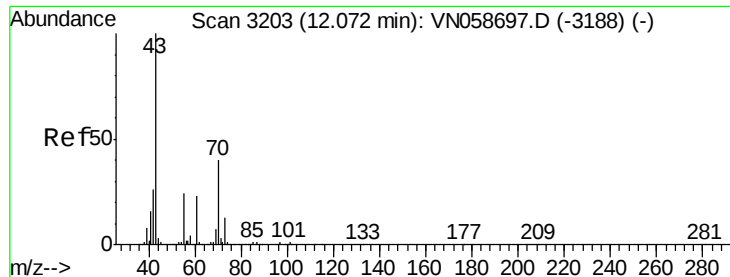
120 25.8 13.1 39.1



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#74

N-amvl acetate

Concen: 0.746 ug/l

RT: 12.03 min Scan# 3189

Delta R.T. -0.04 min

Lab File: VN058789.D

Acq: 15 Oct 2019 17:44

Instrument :

MSVOA\_N

ClientSampleId :

IDW-SO-101019

Tot Ion: 43 Resp: 5527

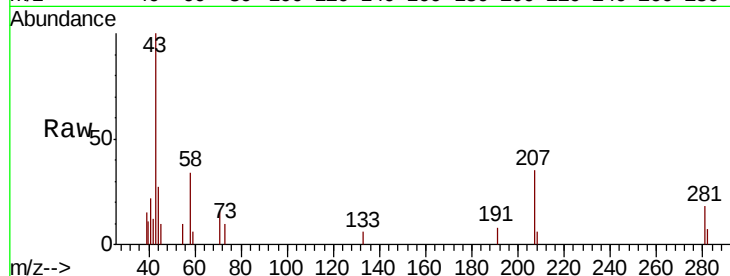
Ion Ratio Lower Upper

43 100

70 0.0 32.2 48.4#

55 6.5 19.6 29.4#

61 0.0 18.6 28.0#

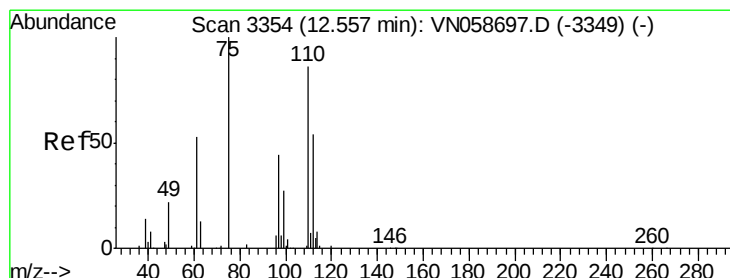
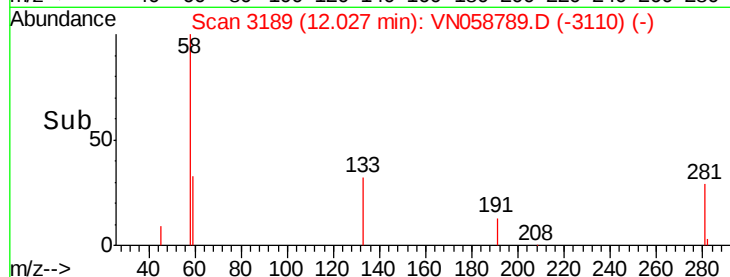
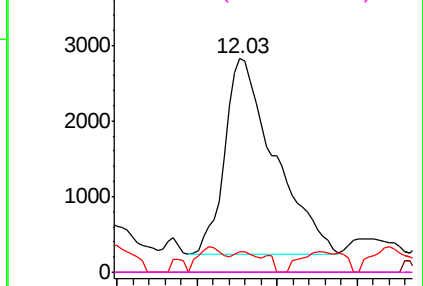


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 70.00 (69.70 to 70.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 61.00 (60.70 to 61.70): VN0



#76

1,2,3-Trichloropropane

Concen: 27.642 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN058789.D

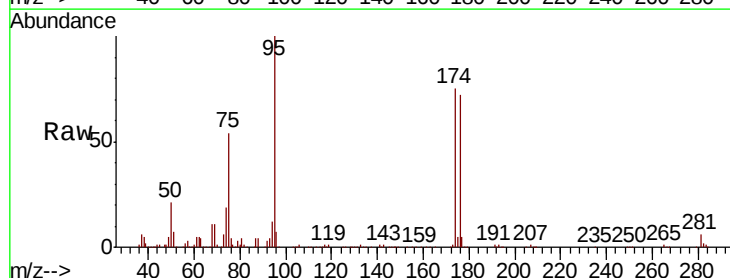
Acq: 15 Oct 2019 17:44

Tgt Ion: 75 Resp: 138070

Ion Ratio Lower Upper

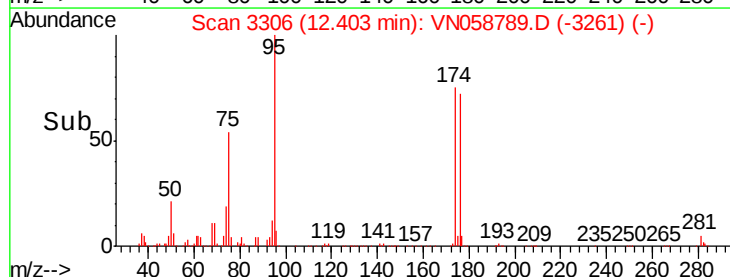
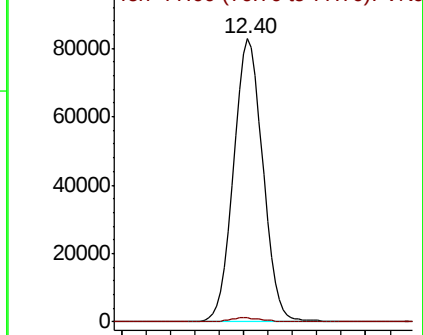
75 100

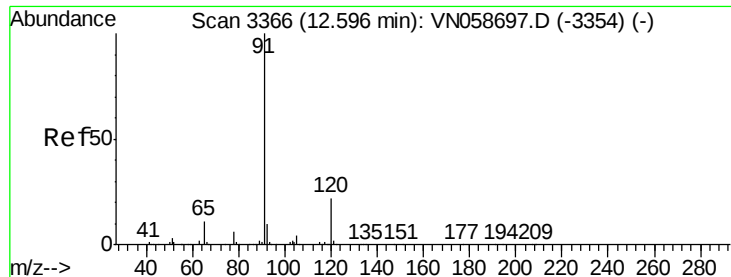
77 1.7 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

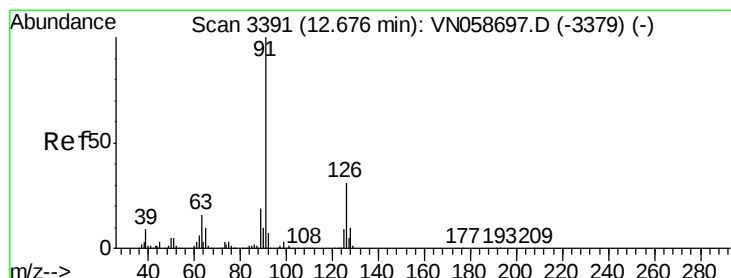
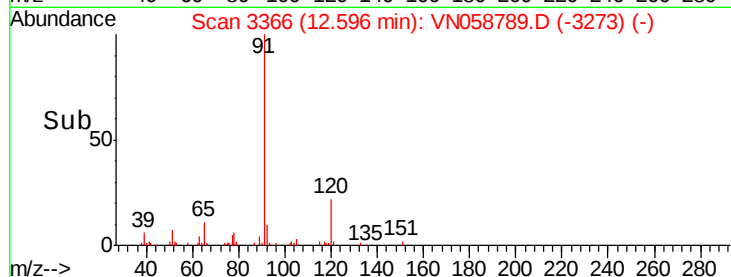
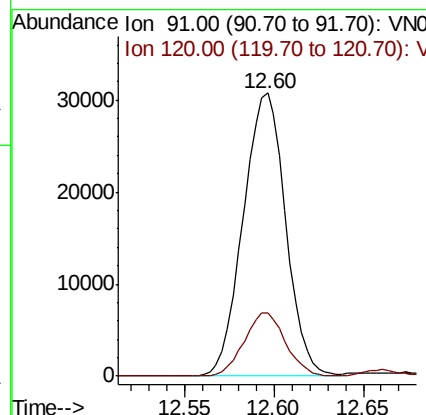
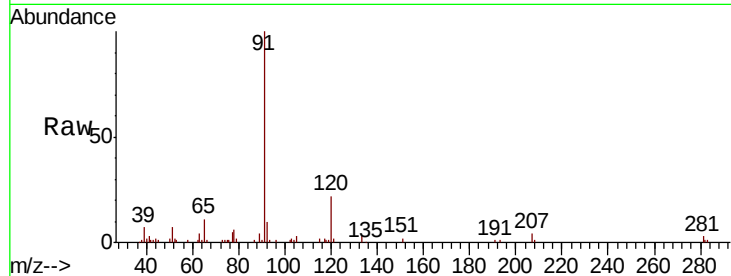




#78  
n-propylbenzene  
Concen: 2.657 ug/l  
RT: 12.60 min Scan# 3366  
Delta R.T. 0.00 min  
Lab File: VN058789.D  
Acq: 15 Oct 2019 17:44

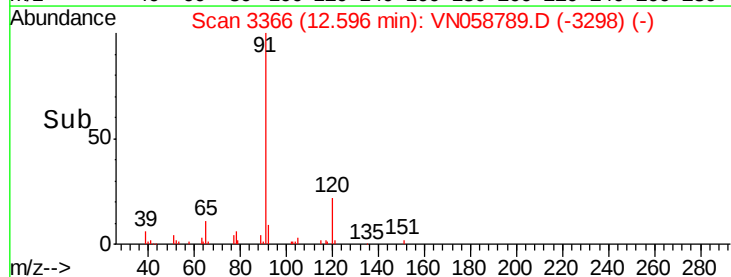
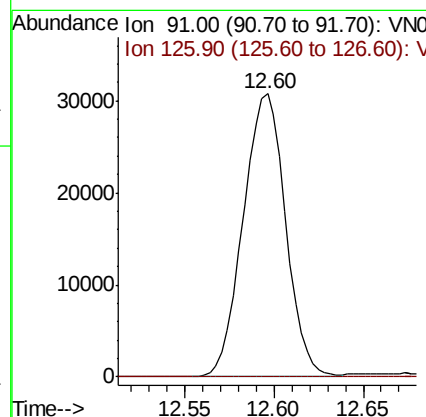
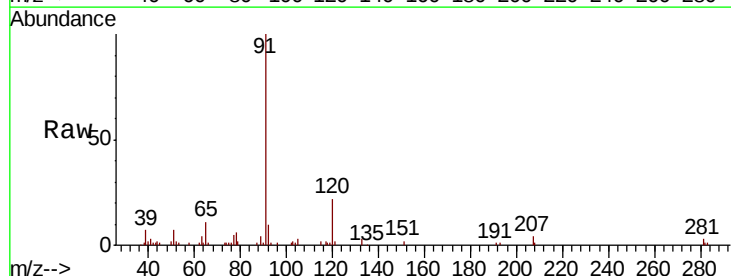
Instrument :  
MSVOA\_N  
ClientSampleId :  
IDW-SO-101019

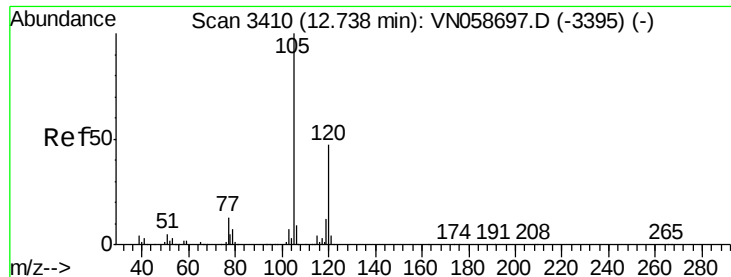
Tot Ion: 91 Resp: 51049  
Ion Ratio Lower Upper  
91 100  
120 21.7 11.1 33.3



#79  
2-Chlorotoluene  
Concen: 4.280 ug/l  
RT: 12.60 min Scan# 3366  
Delta R.T. -0.08 min  
Lab File: VN058789.D  
Acq: 15 Oct 2019 17:44

Tgt Ion: 91 Resp: 51049  
Ion Ratio Lower Upper  
91 100  
126 0.0 16.2 48.5#





#80

1,3,5-Trimethylbenzene

Concen: 0.300 ug/l

RT: 12.74 min Scan# 3411

Delta R.T. 0.00 min

Lab File: VN058789.D

Acq: 15 Oct 2019 17:44

Instrument :

MSVOA\_N

ClientSampled :

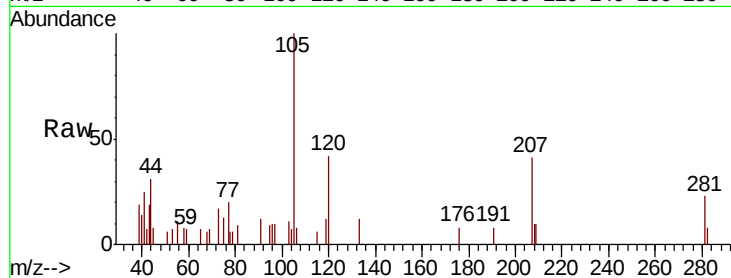
IDW-SO-101019

Tot Ion:105 Resp: 4228

Ion Ratio Lower Upper

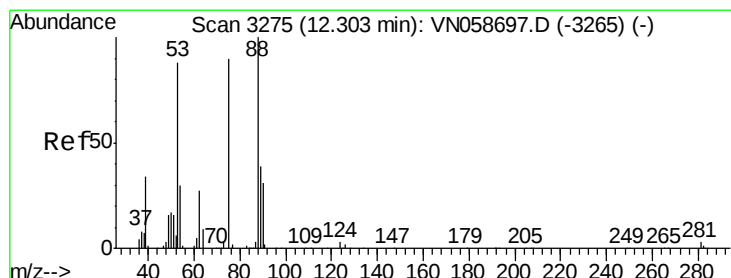
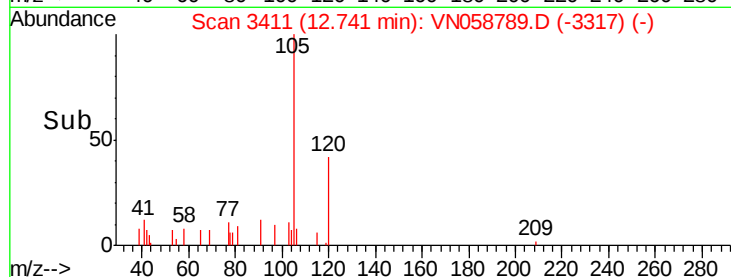
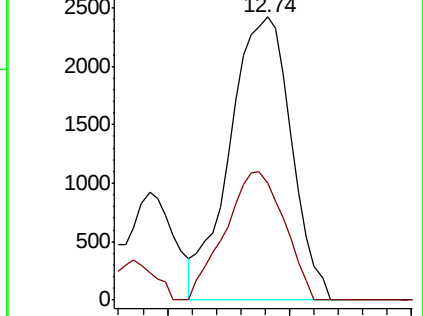
105 100

120 43.7 23.4 70.2



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#81

trans-1,4-Dichloro-2-butene

Concen: 74.045 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN058789.D

Acq: 15 Oct 2019 17:44

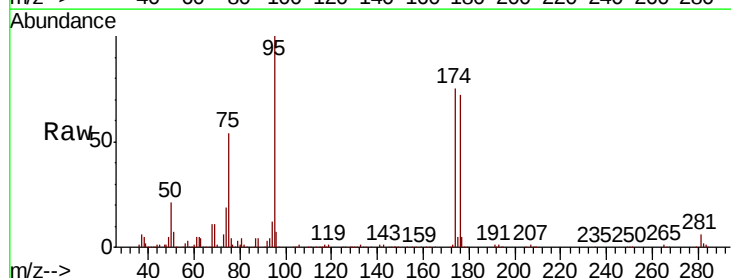
Tgt Ion: 75 Resp: 138070

Ion Ratio Lower Upper

75 100

53 0.0 78.4 117.6#

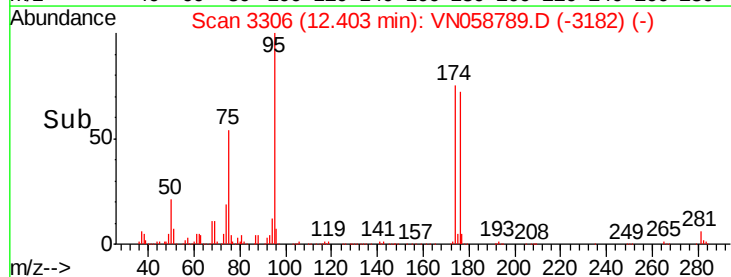
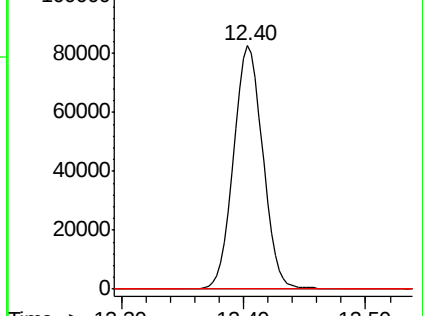
89 0.0 34.9 52.3#

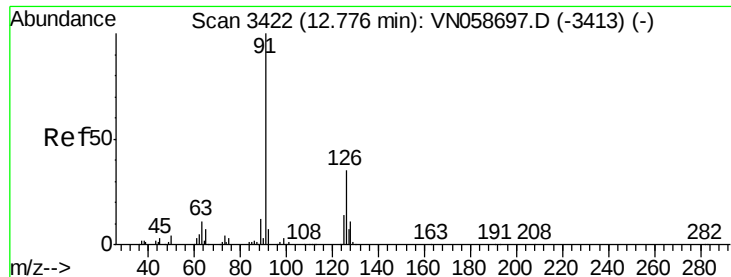


Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO

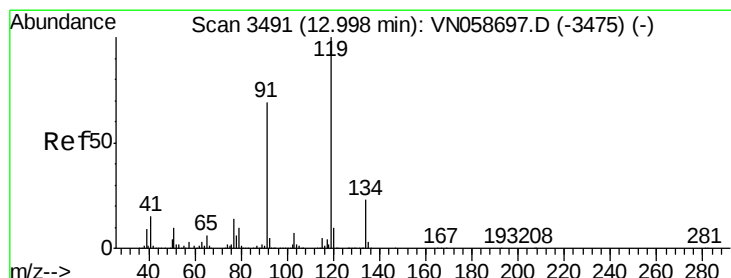
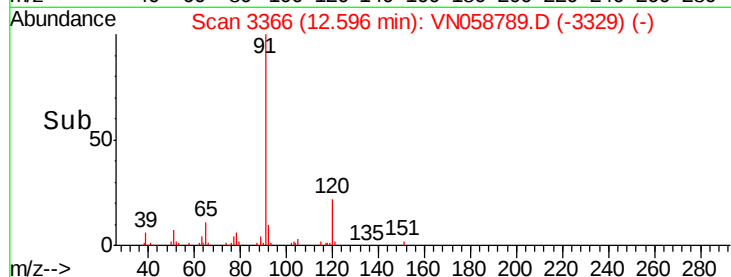
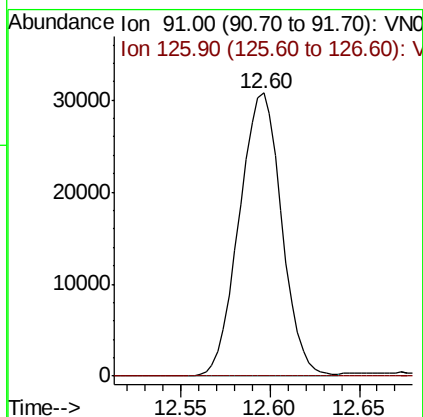
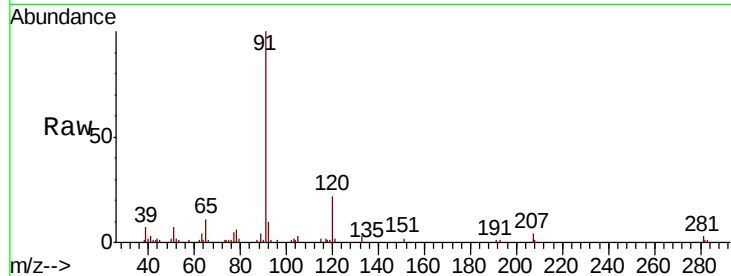




#82  
4-Chlorotoluene  
Concen: 4.171 ug/l  
RT: 12.60 min Scan# 3366  
Delta R.T. -0.18 min  
Lab File: VN058789.D  
Acq: 15 Oct 2019 17:44

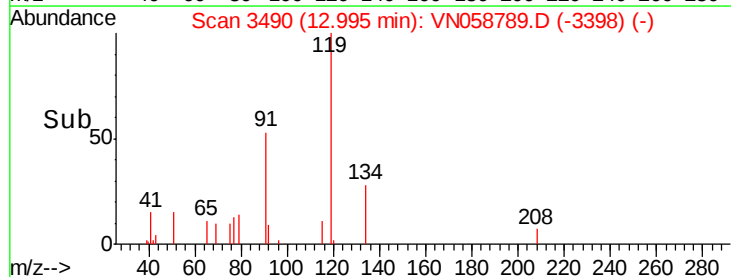
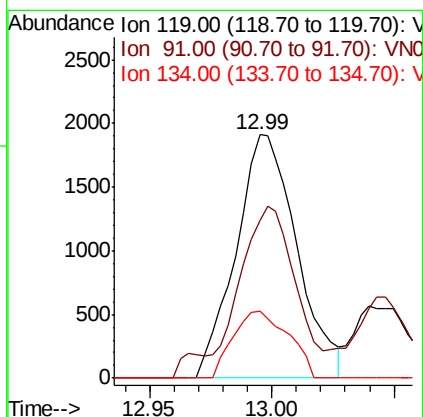
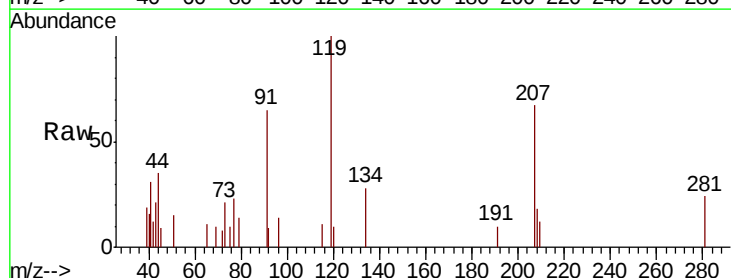
Instrument :  
MSVOA\_N  
ClientSampleId :  
IDW-SO-101019

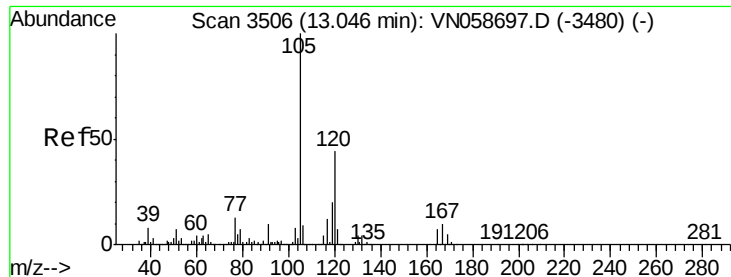
Tot Ion: 91 Resp: 51049  
Ion Ratio Lower Upper  
91 100  
126 0.0 15.9 47.6#



#83  
tert-Butylbenzene  
Concen: 0.275 ug/l  
RT: 12.99 min Scan# 3490  
Delta R.T. -0.00 min  
Lab File: VN058789.D  
Acq: 15 Oct 2019 17:44

Tgt Ion: 119 Resp: 3311  
Ion Ratio Lower Upper  
119 100  
91 69.8 33.8 101.3  
134 24.9 12.6 37.6





#84

1,2,4-Trimethylbenzene

Concen: 0.531 ug/l

RT: 13.04 min Scan# 3505

Delta R.T. -0.00 min

Lab File: VN058789.D

Acq: 15 Oct 2019 17:44

Instrument :

MSVOA\_N

ClientSampleId :

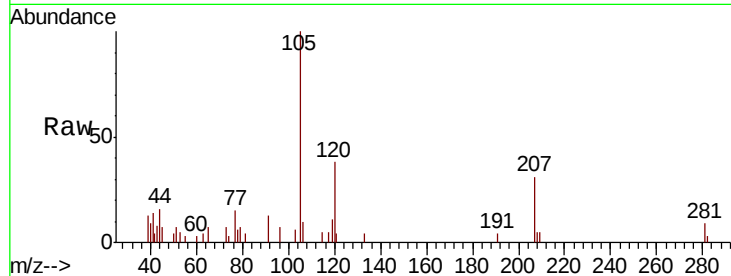
IDW-SO-101019

Tot Ion:105 Resp: 7425

Ion Ratio Lower Upper

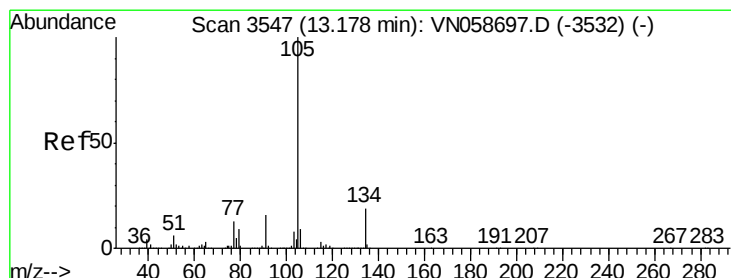
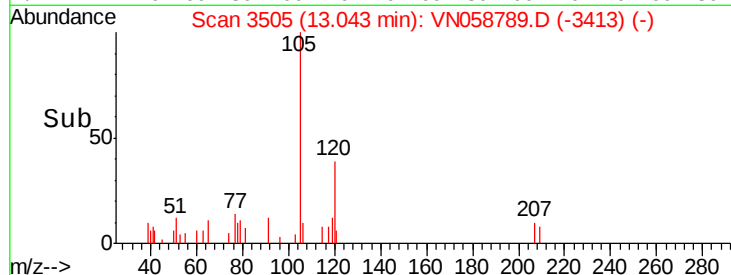
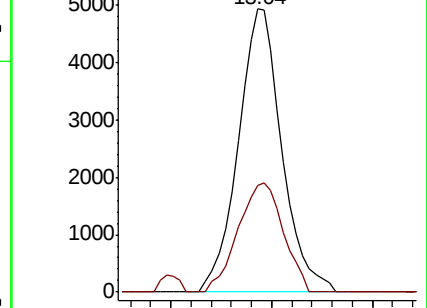
105 100

120 40.2 21.9 65.7



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#85

sec-Butylbenzene

Concen: 1.721 ug/l

RT: 13.17 min Scan# 3546

Delta R.T. -0.00 min

Lab File: VN058789.D

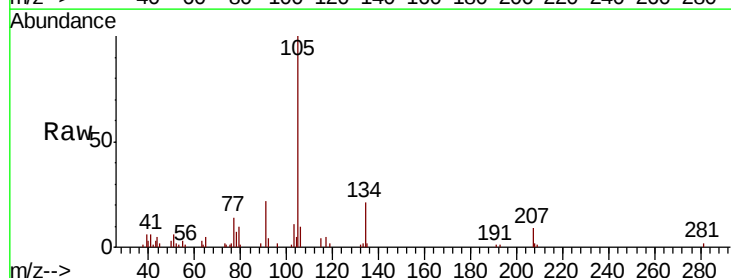
Acq: 15 Oct 2019 17:44

Tgt Ion:105 Resp: 27348

Ion Ratio Lower Upper

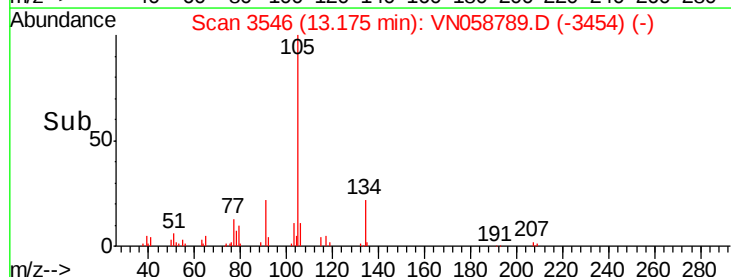
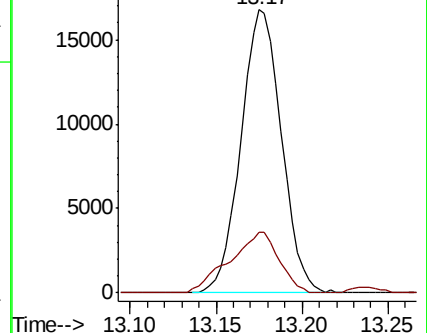
105 100

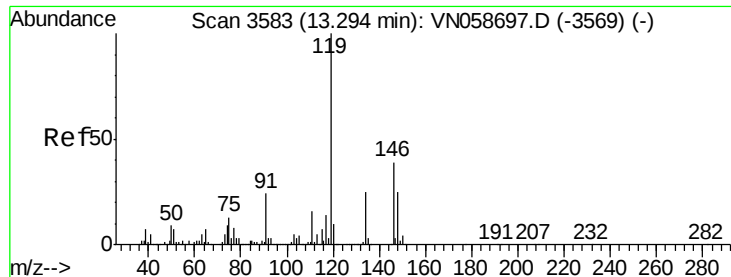
134 26.1 9.7 29.1



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

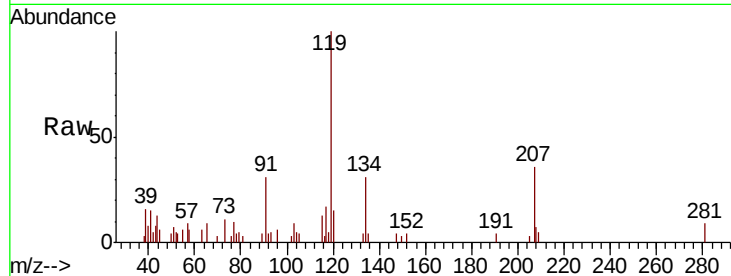




#86  
p-Isopropyltoluene  
Concen: 0.647 ug/l  
RT: 13.45 min Scan# 3630  
Delta R.T. 0.15 min  
Lab File: VN058789.D  
Acq: 15 Oct 2019 17:44

Instrument :  
MSVOA\_N  
ClientSampleId :  
IDW-SO-101019

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 119     | 100   |       |       |
| 134     | 31.6  | 12.7  | 38.1  |
| 91      | 28.7  | 11.9  | 35.5  |

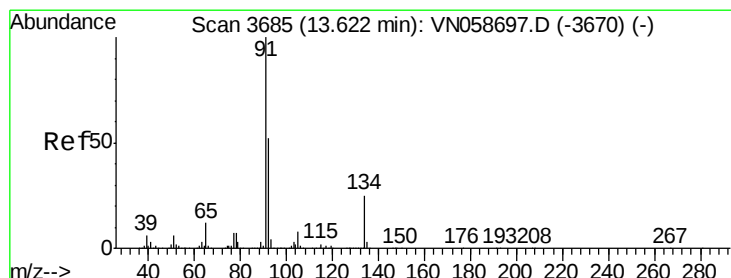
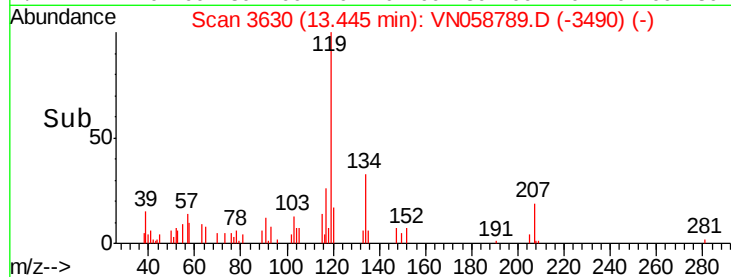
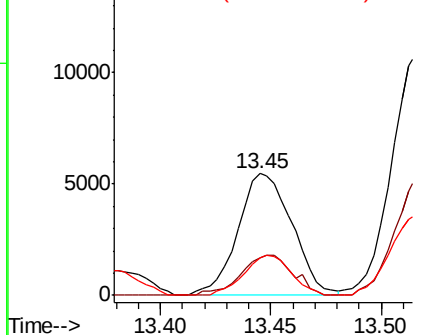


Abundance

Ion 119.00 (118.70 to 119.70): V

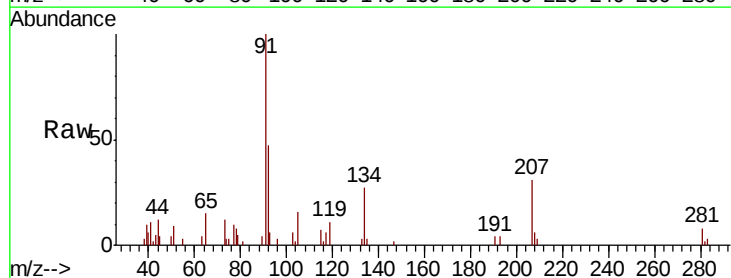
Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V



#89  
n-Butylbenzene  
Concen: 0.890 ug/l  
RT: 13.62 min Scan# 3684  
Delta R.T. -0.00 min  
Lab File: VN058789.D  
Acq: 15 Oct 2019 17:44

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 91      | 100   |       |       |
| 92      | 45.4  | 26.0  | 78.0  |
| 134     | 0.0   | 12.2  | 36.6  |

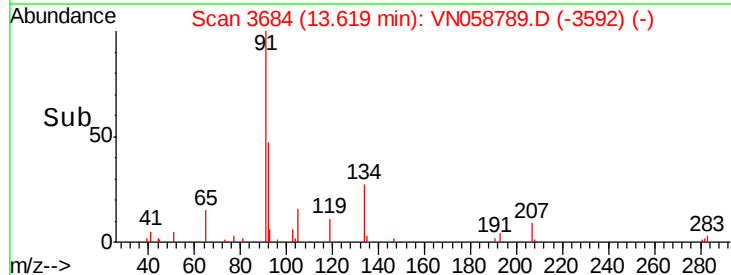
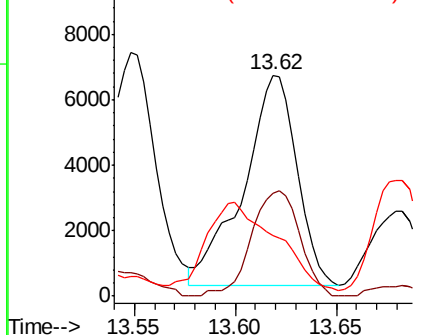


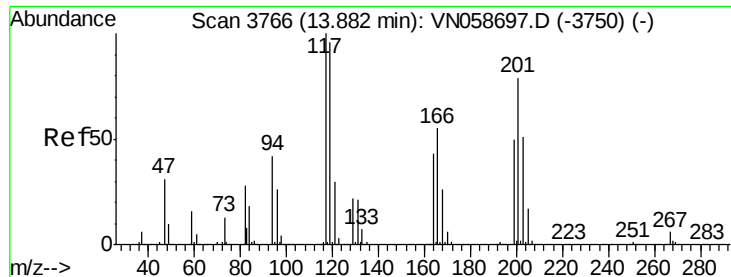
Abundance

Ion 91.00 (90.70 to 91.70): V

Ion 92.00 (91.70 to 92.70): V

Ion 134.00 (133.70 to 134.70): V





#90

Hexachloroethane

Concen: 3.664 ug/l

RT: 13.90 min Scan# 3770

Delta R.T. 0.01 min

Lab File: VN058789.D

Acq: 15 Oct 2019 17:44

Instrument :

MSVOA\_N

ClientSampleId :

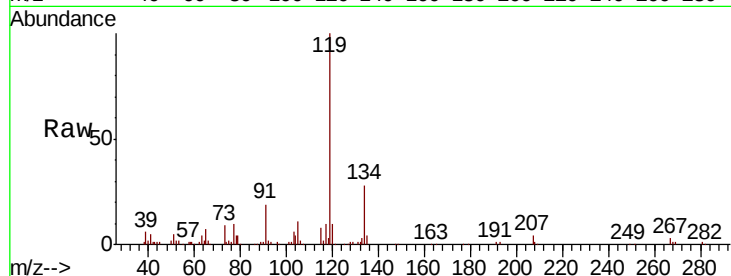
IDW-SO-101019

Tot Ion:117 Resp: 9468

Ion Ratio Lower Upper

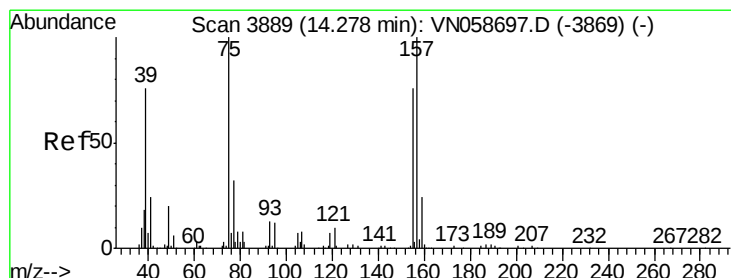
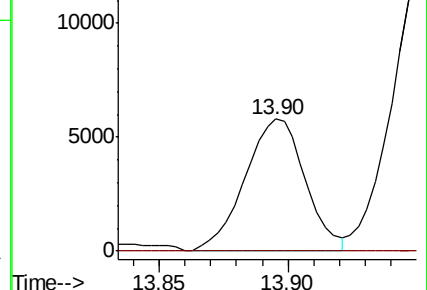
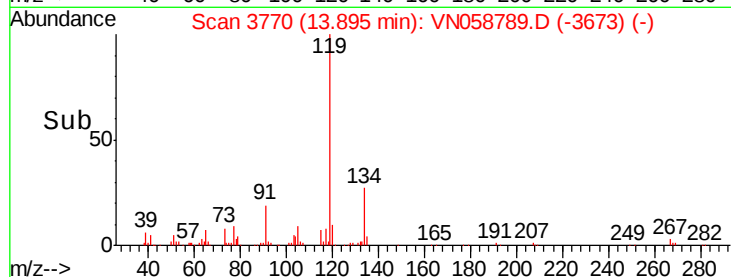
117 100

201 0.0 39.6 118.7#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V



#92

1,2-Dibromo-3-Chloropropane

Concen: 0.299 ug/l

RT: 14.30 min Scan# 3895

Delta R.T. 0.02 min

Lab File: VN058789.D

Acq: 15 Oct 2019 17:44

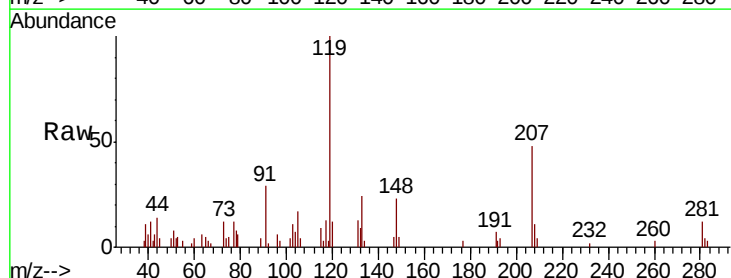
Tgt Ion: 75 Resp: 380

Ion Ratio Lower Upper

75 100

155 0.0 37.9 113.6#

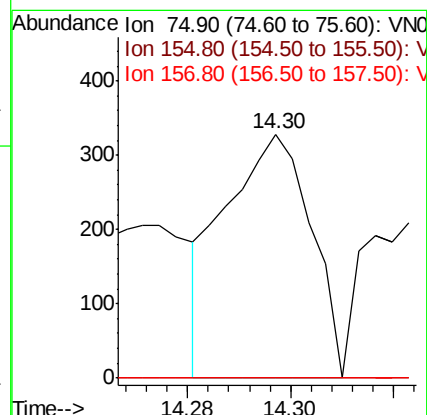
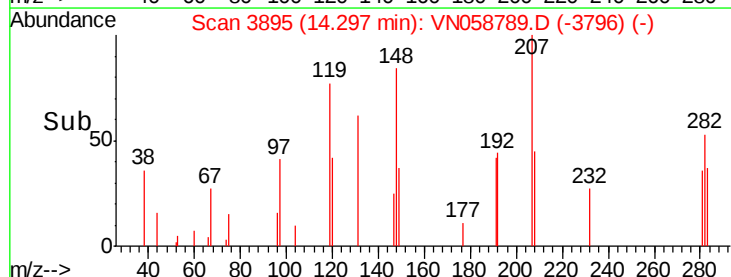
157 0.0 49.4 148.2#

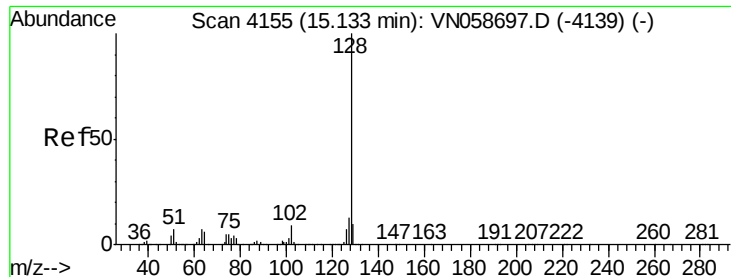


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V





#95  
Naphthalene  
Concen: 235.311 ug/l  
RT: 15.13 min Scan# 4154  
Delta R.T. -0.00 min  
Lab File: VN058789.D  
Acq: 15 Oct 2019 17:44

Instrument :  
MSVOA\_N  
ClientSampleId :  
IDW-SO-101019

Tot Ion:128 Resp: 2974048  
Ion Ratio Lower Upper  
128 100  
127 13.4 10.2 15.4  
129 11.3 8.5 12.7

