

Data Path : W:\HPCHEM1\MSVOA\_W\DATA\VW051518\  
 Data File : VW002540.D  
 Acq On : 15 May 2018 04:21  
 Operator : JC/SY  
 Sample : J2870-09  
 Misc : 4.76G/5ML/MSVOA\_W/SOIL  
 ALS Vial : 37 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 SP-A

Quant Time: May 15 07:33:26 2018  
 Quant Method : W:\HPCHEM1\MSVOA\_W\METHOD\82W051518S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue May 15 03:32:11 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.95  | 168  | 137769   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.85  | 114  | 224904   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.64 | 117  | 192465   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.57 | 152  | 83146    | 50.00 | ug/l  | 0.00     |

|                             |        |     |          |       |         |      |
|-----------------------------|--------|-----|----------|-------|---------|------|
| System Monitoring Compounds |        |     |          |       |         |      |
| 33) 1,2-Dichloroethane-d4   | 8.31   | 65  | 71416    | 50.16 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 100.32% |      |
| 35) Dibromofluoromethane    | 7.88   | 113 | 67197    | 47.10 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 94.20%  |      |
| 50) Toluene-d8              | 10.33  | 98  | 195065   | 35.94 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 71.88%  |      |
| 62) 4-Bromofluorobenzene    | 12.63  | 95  | 68793    | 34.66 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 69.32%  |      |

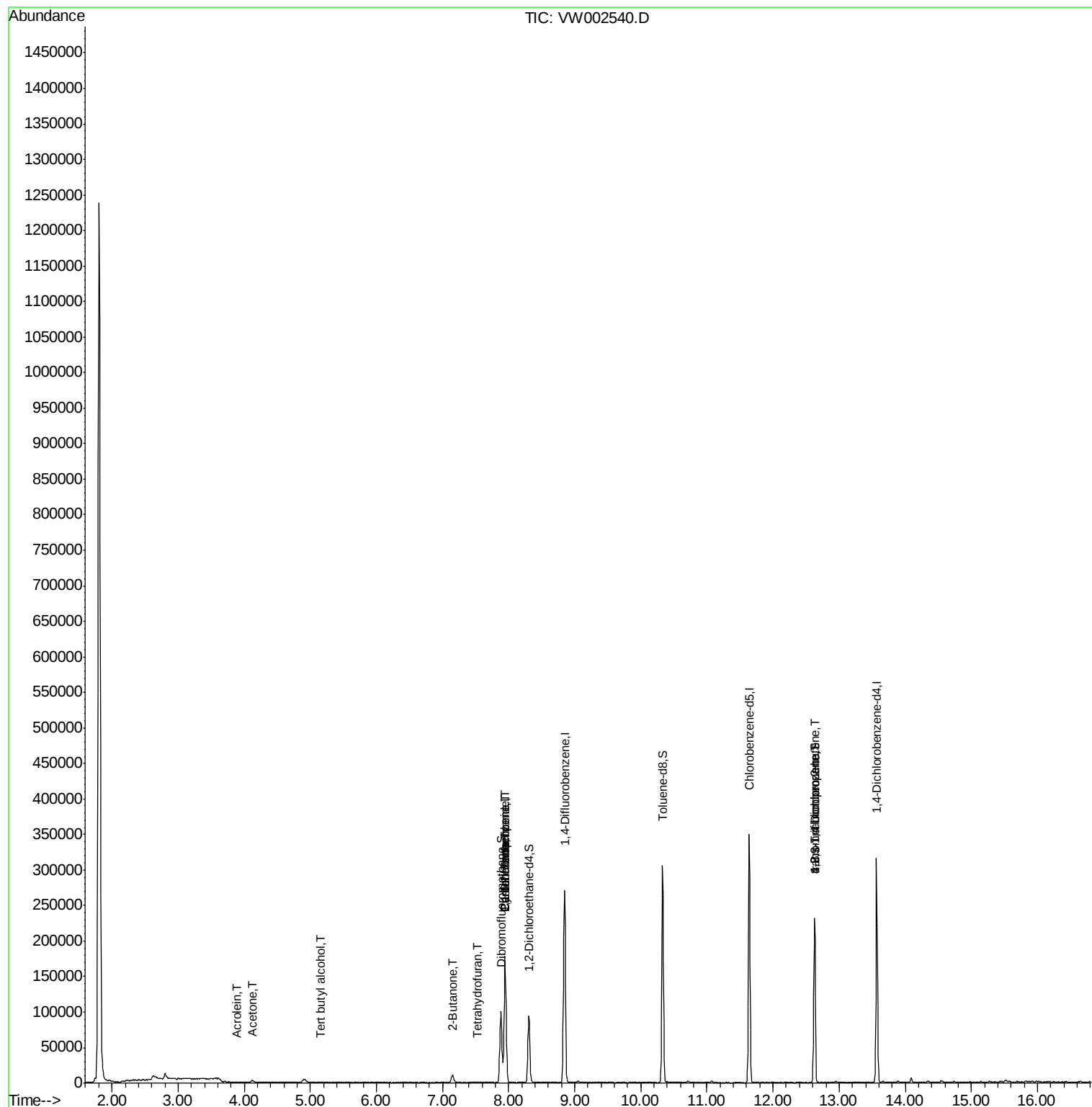
| Target Compounds               | R.T.  | QIon | Response | Conc   | Units  | Qvalue |
|--------------------------------|-------|------|----------|--------|--------|--------|
| 11) Tert butyl alcohol         | 5.16  | 59   | 140      | 1.28   | ug/l # | 72     |
| 13) Acrolein                   | 3.89  | 56   | 112      | 1.04   | ug/l # | 59     |
| 16) Acetone                    | 4.12  | 43   | 4646     | 15.46  | ug/l   | 94     |
| 25) 2-Butanone                 | 7.16  | 43   | 839      | 1.97   | ug/l # | 78     |
| 29) Tetrahydrofuran            | 7.53  | 42   | 280      | 1.05   | ug/l # | 90     |
| 31) Cyclohexane                | 7.95  | 56   | 3187     | 1.58   | ug/l # | 39     |
| 36) 1,1-Dichloropropene        | 7.95  | 75   | 10082    | 5.08   | ug/l # | 50     |
| 38) Carbon Tetrachloride       | 7.95  | 117  | 13005    | 6.69   | ug/l # | 18     |
| 76) 1,2,3-Trichloropropane     | 12.63 | 75   | 35242    | 44.84  | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.63 | 75   | 35242    | 122.25 | ug/l # | 8      |

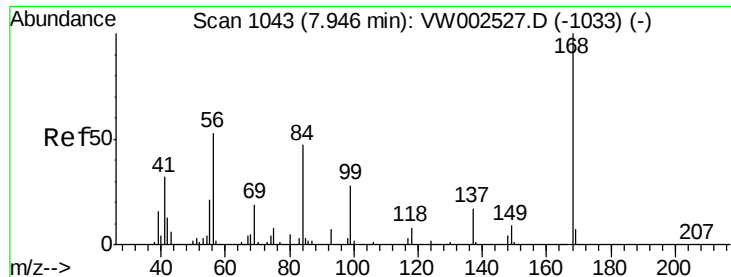
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260  
QLast Update : Tue May 15 03:32:11 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.95 min Scan# 1044

Delta R.T. 0.01 min

Lab File: VW002540.D

Acq: 15 May 2018 04:21

Instrument :

MSVOA\_W

ClientSampleId :

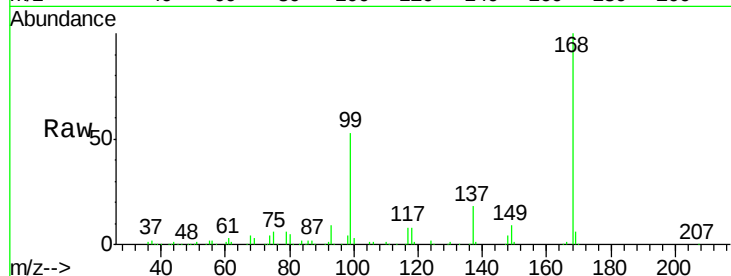
SP-A

Tgt Ion:168 Resp: 137769

Ion Ratio Lower Upper

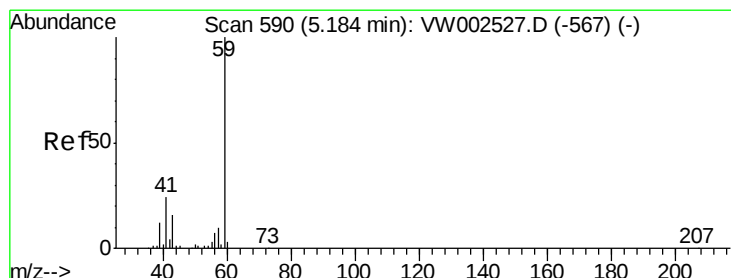
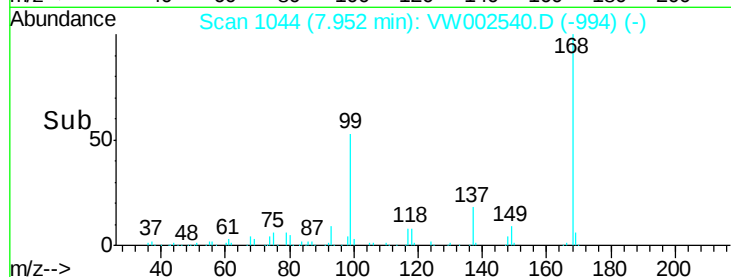
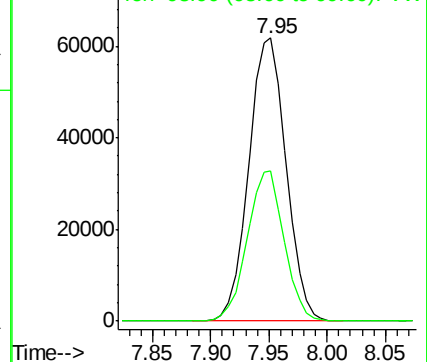
168 100

99 52.9 42.6 64.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



#11

Tert butyl alcohol

Concen: 1.28 ug/l

RT: 5.16 min Scan# 586

Delta R.T. -0.02 min

Lab File: VW002540.D

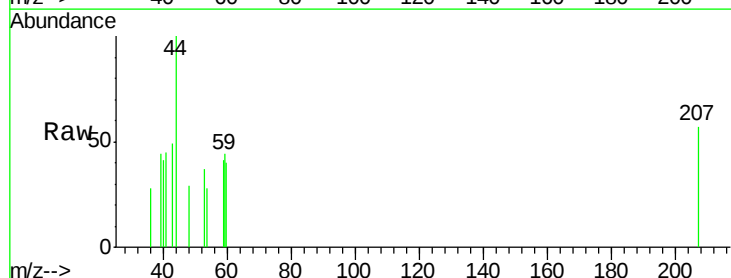
Acq: 15 May 2018 04:21

Tgt Ion: 59 Resp: 140

Ion Ratio Lower Upper

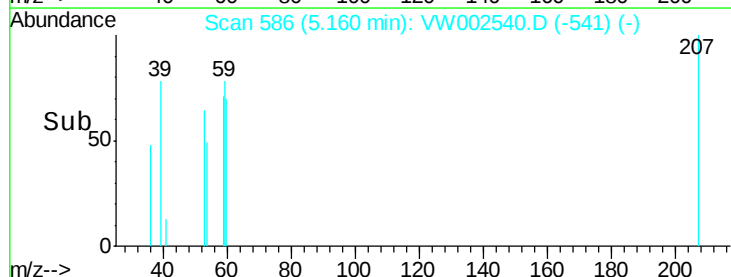
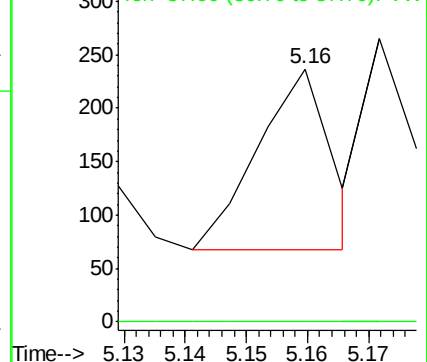
59 100

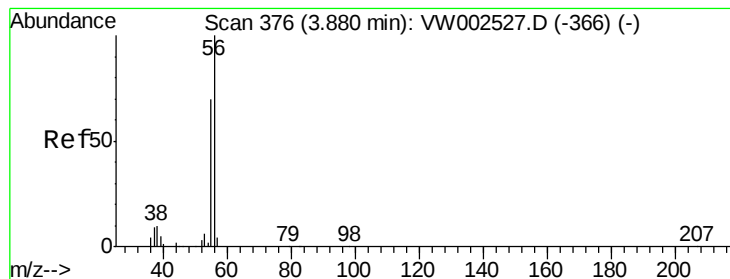
57 0.0 8.2 12.4#



Abundance Ion 59.00 (58.70 to 59.70): VW

Ion 57.00 (56.70 to 57.70): VW





#13

Acrolein

Concen: 1.04 ug/l

RT: 3.89 min Scan# 378

Delta R.T. 0.01 min

Lab File: VW002540.D

Acq: 15 May 2018 04:21

Instrument :

MSVOA\_W

ClientSampled :

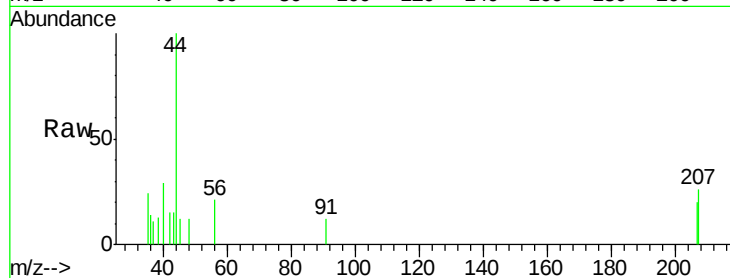
SP-A

Tgt Ion: 56 Resp: 112

Ion Ratio Lower Upper

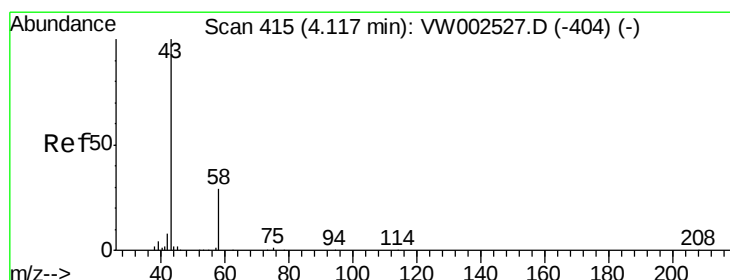
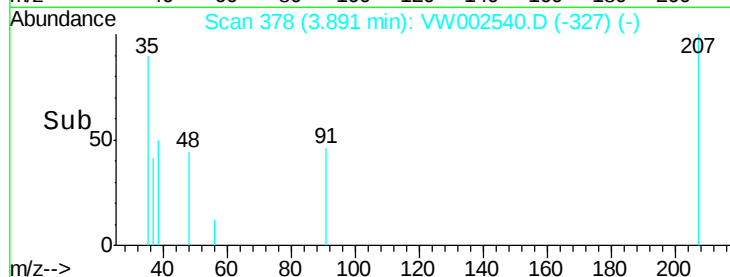
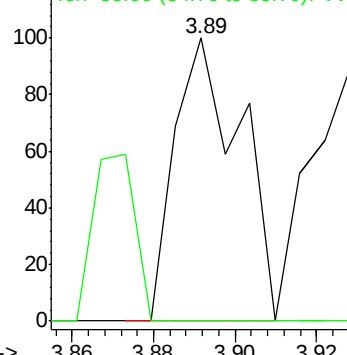
56 100

55 37.5 57.0 85.4#



Abundance Ion 56.00 (55.70 to 56.70): VW

Ion 55.00 (54.70 to 55.70): VW



#16

Acetone

Concen: 15.46 ug/l

RT: 4.12 min Scan# 416

Delta R.T. 0.01 min

Lab File: VW002540.D

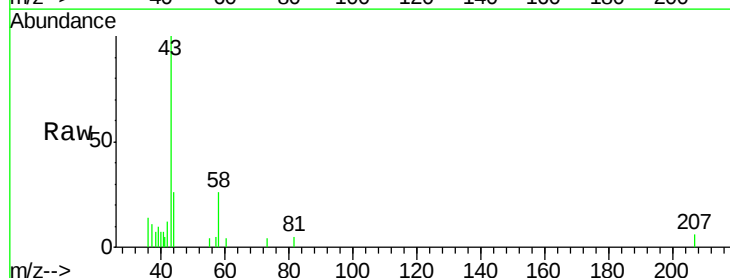
Acq: 15 May 2018 04:21

Tgt Ion: 43 Resp: 4646

Ion Ratio Lower Upper

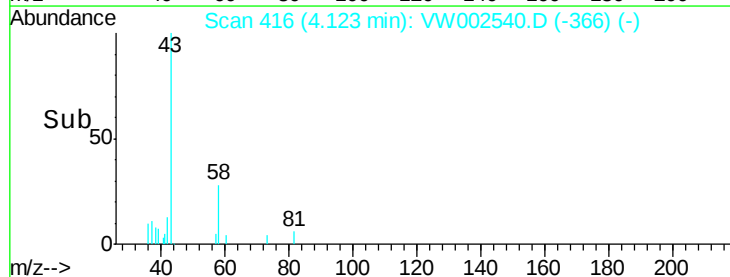
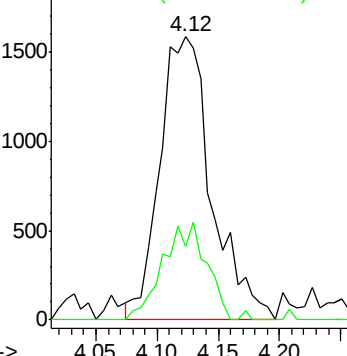
43 100

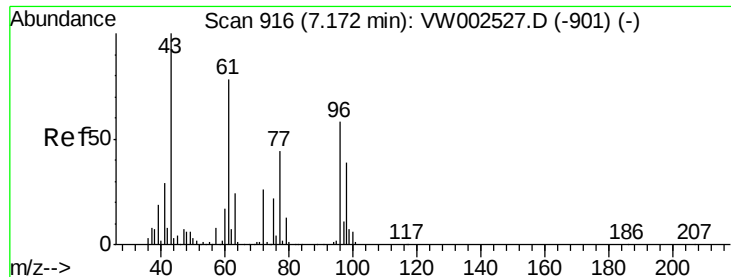
58 26.0 23.4 35.0



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

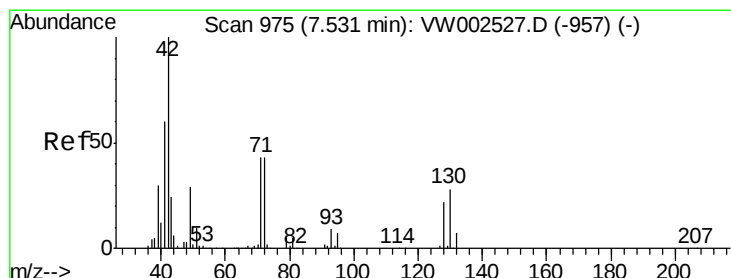
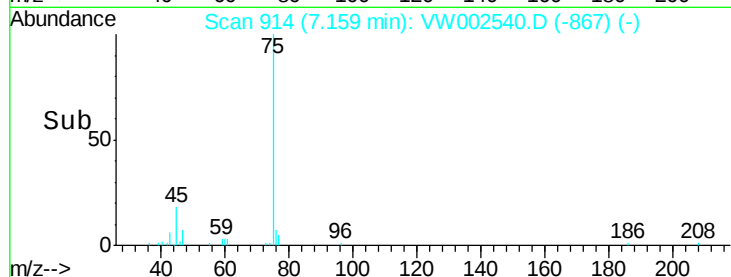
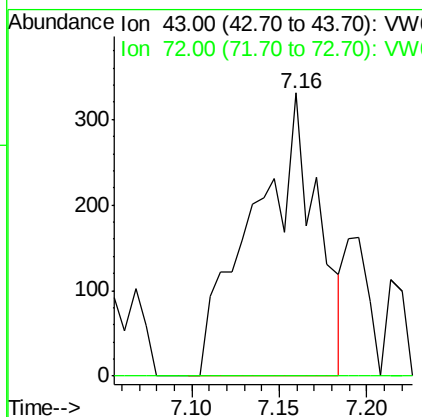
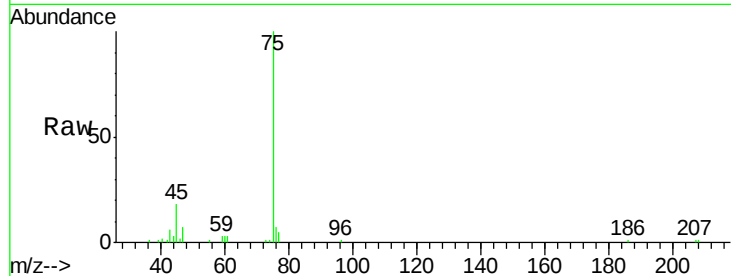




#25  
 2-Butanone  
 Concen: 1.97 ug/l  
 RT: 7.16 min Scan# 914  
 Delta R.T. -0.01 min  
 Lab File: VW002540.D  
 Acq: 15 May 2018 04:21

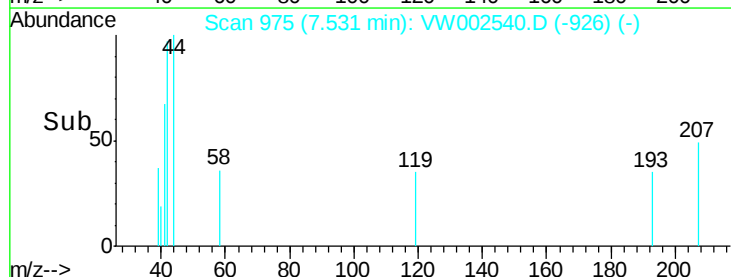
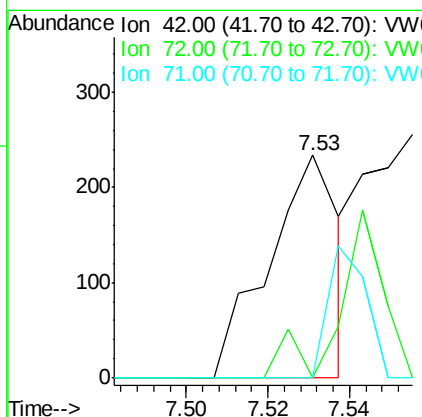
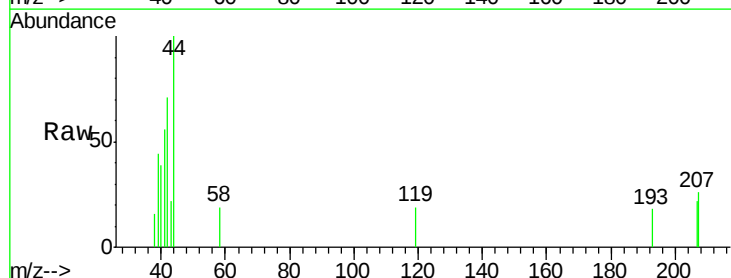
Instrument :  
 MSVOA\_W  
 ClientSampled :  
 SP-A

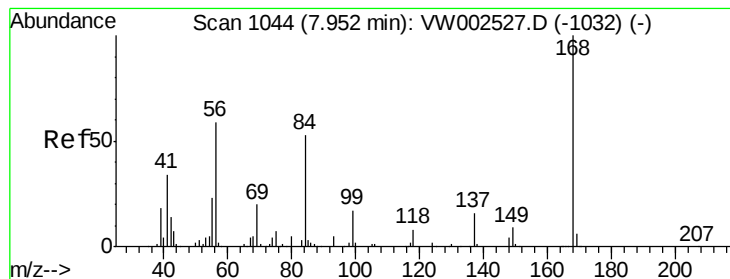
Tgt Ion: 43 Resp: 839  
 Ion Ratio Lower Upper  
 43 100  
 72 15.1 20.9 31.3#



#29  
 Tetrahydrofuran  
 Concen: 1.05 ug/l  
 RT: 7.53 min Scan# 975  
 Delta R.T. -0.00 min  
 Lab File: VW002540.D  
 Acq: 15 May 2018 04:21

Tgt Ion: 42 Resp: 280  
 Ion Ratio Lower Upper  
 42 100  
 72 46.8 35.0 52.4  
 71 32.1 33.0 49.6#





#31

Cyclohexane

Concen: 1.58 ug/l

RT: 7.95 min Scan# 1043

Delta R.T. -0.01 min

Lab File: VW002540.D

Acq: 15 May 2018 04:21

Instrument :

MSVOA\_W

ClientSampled :

SP-A

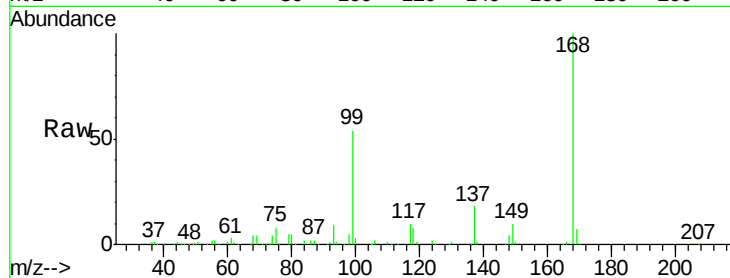
Tgt Ion: 56 Resp: 3187

Ion Ratio Lower Upper

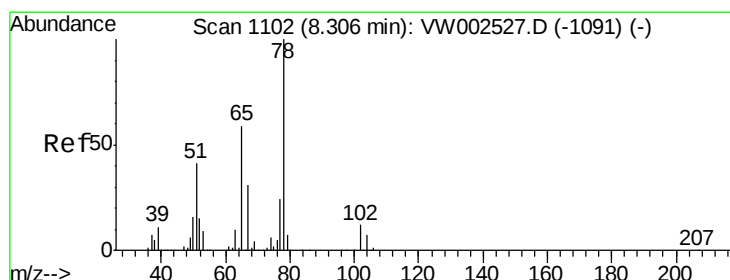
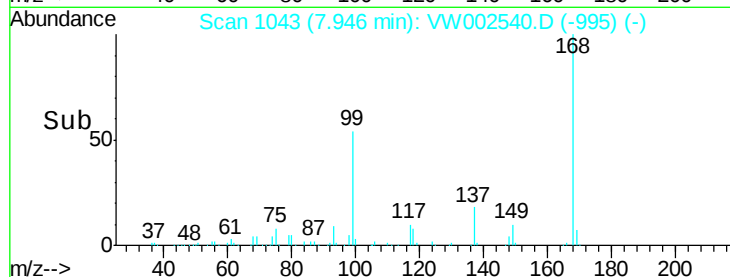
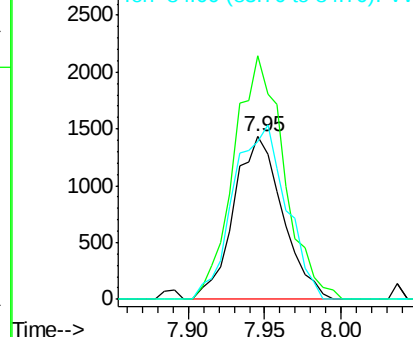
56 100

69 149.7 27.0 40.4#

84 97.4 72.2 108.2



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



#33

1,2-Dichloroethane-d4

Concen: 50.16 ug/l

RT: 8.31 min Scan# 1102

Delta R.T. -0.00 min

Lab File: VW002540.D

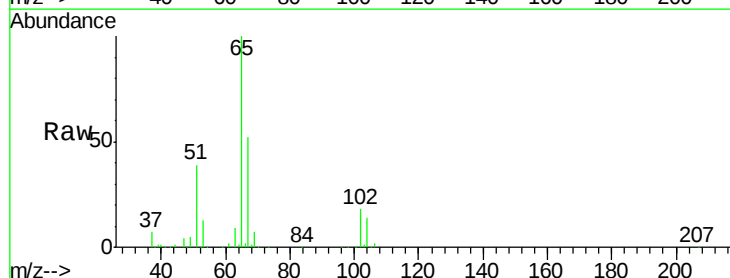
Acq: 15 May 2018 04:21

Tgt Ion: 65 Resp: 71416

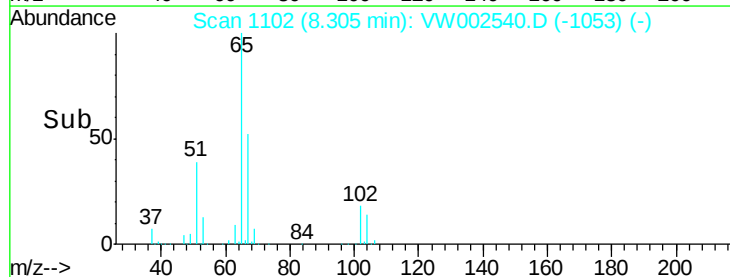
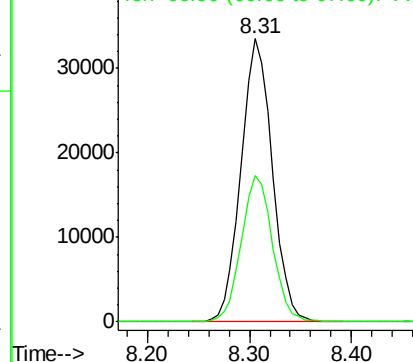
Ion Ratio Lower Upper

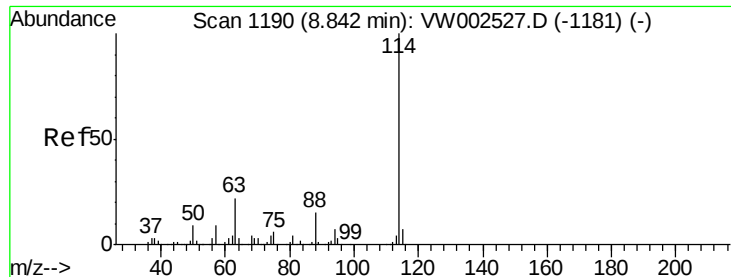
65 100

67 51.4 0.0 104.4



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

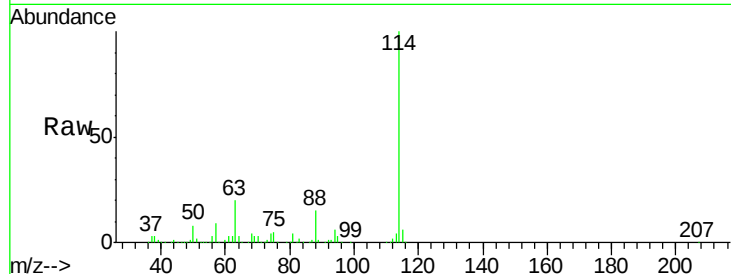




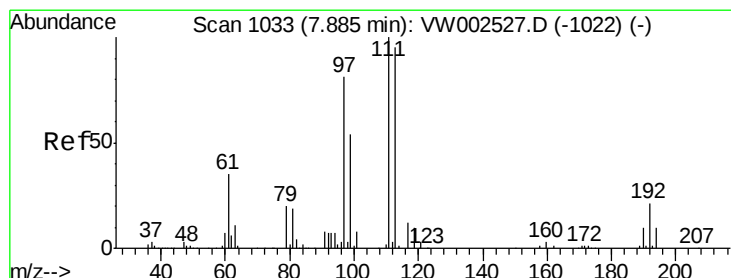
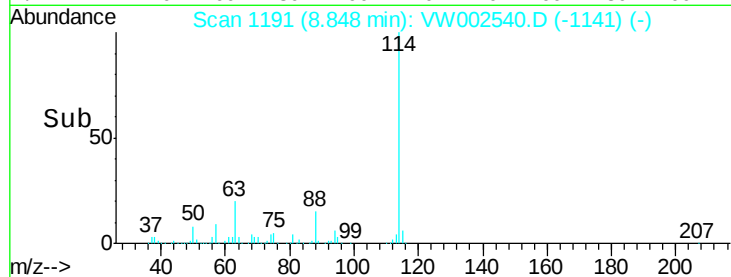
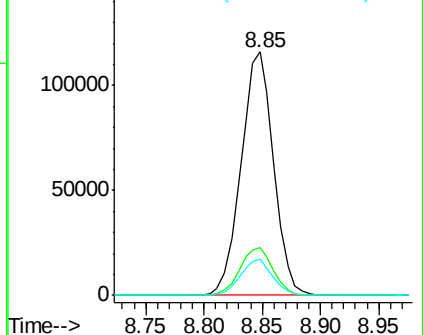
#34  
 1,4-Difluorobenzene  
 Concen: 50.00 ug/l  
 RT: 8.85 min Scan# 1191  
 Delta R.T. 0.01 min  
 Lab File: VW002540.D  
 Acq: 15 May 2018 04:21

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 SP-A

Tgt Ion:114 Resp: 224904  
 Ion Ratio Lower Upper  
 114 100  
 63 19.8 0.0 43.2  
 88 14.8 0.0 29.2

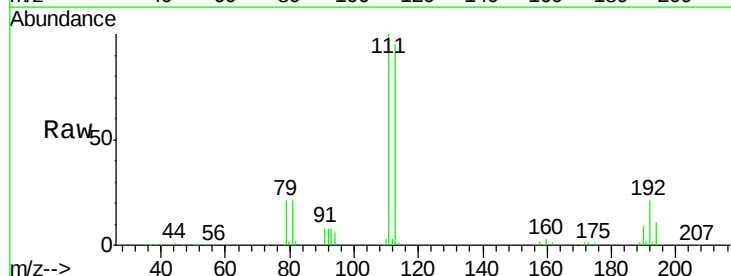


Abundance Ion 113.90 (113.60 to 114.60): V  
 Ion 63.00 (62.70 to 63.70): VW  
 Ion 87.90 (87.60 to 88.60): VW

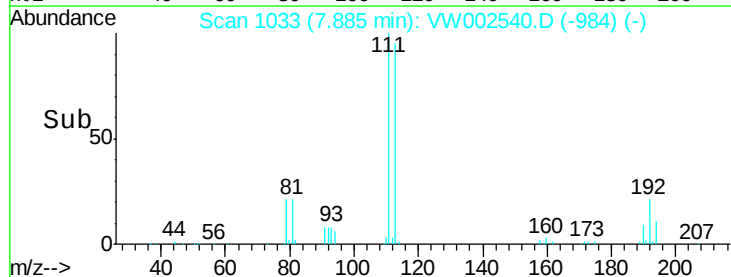
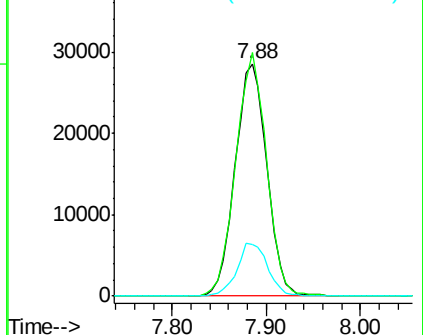


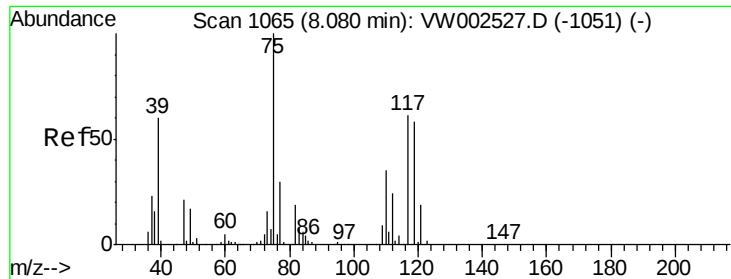
#35  
 Dibromofluoromethane  
 Concen: 47.10 ug/l  
 RT: 7.88 min Scan# 1033  
 Delta R.T. -0.00 min  
 Lab File: VW002540.D  
 Acq: 15 May 2018 04:21

Tgt Ion:113 Resp: 67197  
 Ion Ratio Lower Upper  
 113 100  
 111 101.8 81.8 122.8  
 192 22.1 17.5 26.3



Abundance Ion 112.80 (112.50 to 113.50): V  
 Ion 110.80 (110.50 to 111.50): V  
 Ion 191.70 (191.40 to 192.40): V

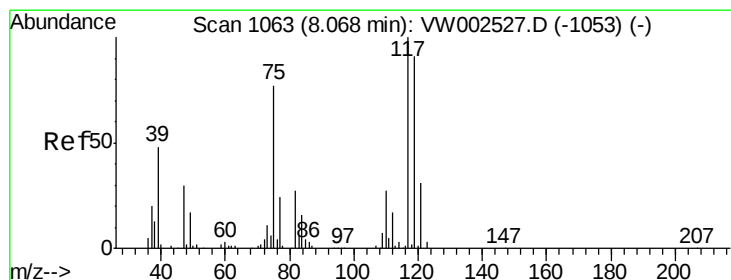
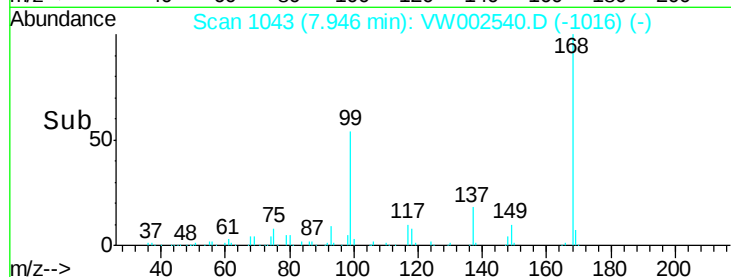
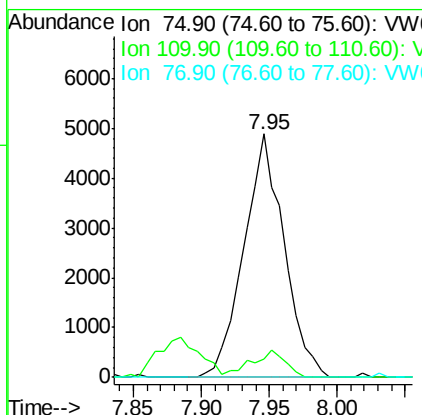
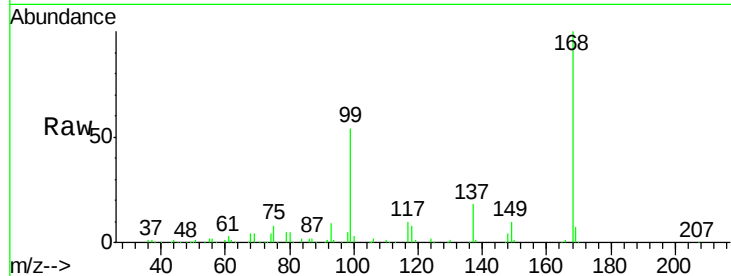




#36  
 1,1-Dichloropropene  
 Concen: 5.08 ug/l  
 RT: 7.95 min Scan# 1043  
 Delta R.T. -0.13 min  
 Lab File: VW002540.D  
 Acq: 15 May 2018 04:21

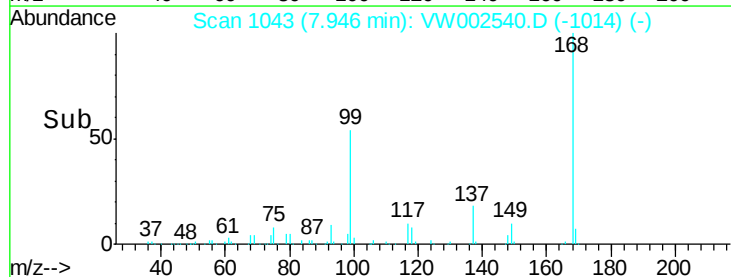
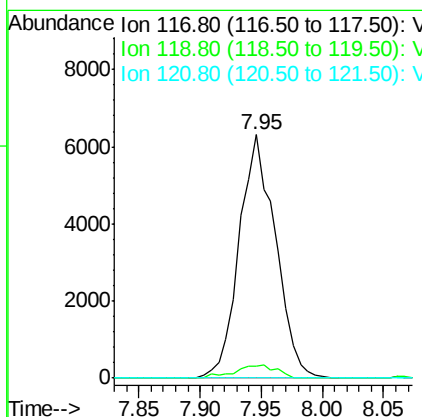
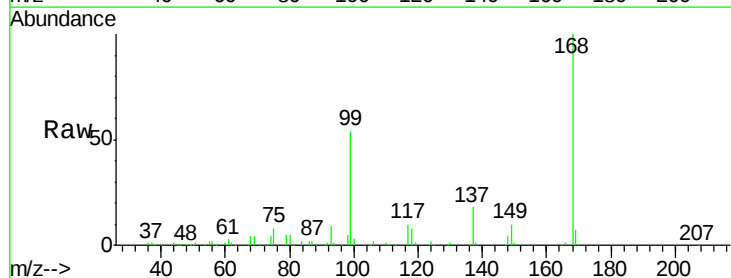
Instrument :  
 MSVOA\_W  
 ClientSampled :  
 SP-A

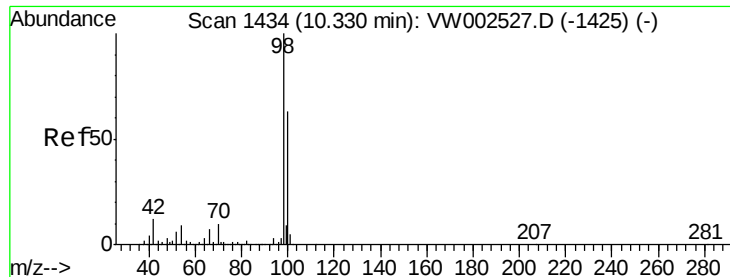
Tgt Ion: 75 Resp: 10082  
 Ion Ratio Lower Upper  
 75 100  
 110 9.4 17.8 53.5#  
 77 0.0 24.5 36.7#



#38  
 Carbon Tetrachloride  
 Concen: 6.69 ug/l  
 RT: 7.95 min Scan# 1043  
 Delta R.T. -0.12 min  
 Lab File: VW002540.D  
 Acq: 15 May 2018 04:21

Tgt Ion: 117 Resp: 13005  
 Ion Ratio Lower Upper  
 117 100  
 119 5.2 73.1 109.7#  
 121 0.0 24.4 36.6#





#50

Toluene-d8

Concen: 35.94 ug/l

RT: 10.33 min Scan# 1434

Delta R.T. -0.00 min

Lab File: VW002540.D

Acq: 15 May 2018 04:21

Instrument :

MSVOA\_W

ClientSampleId :

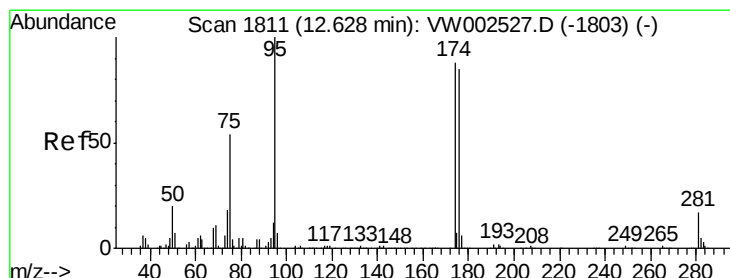
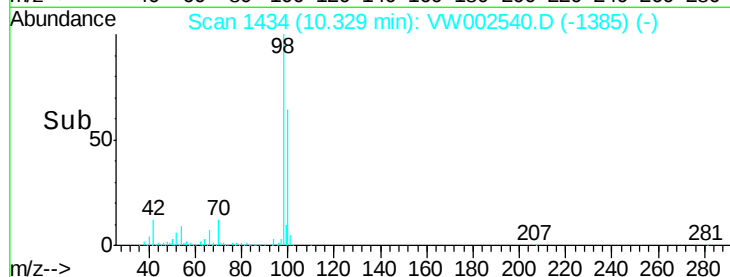
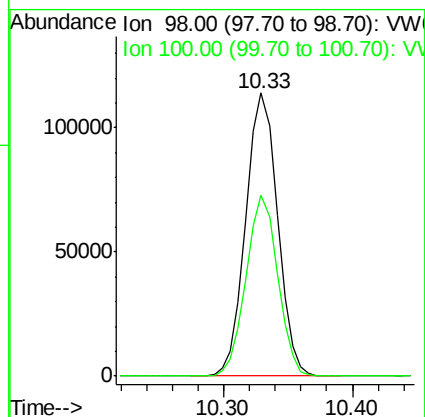
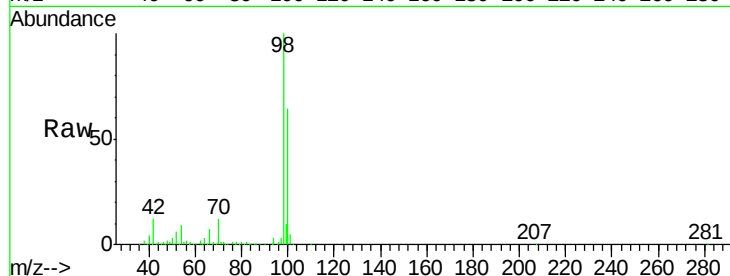
SP-A

Tgt Ion: 98 Resp: 195065

Ion Ratio Lower Upper

98 100

100 63.2 51.0 76.4



#62

4-Bromofluorobenzene

Concen: 34.66 ug/l

RT: 12.63 min Scan# 1811

Delta R.T. -0.00 min

Lab File: VW002540.D

Acq: 15 May 2018 04:21

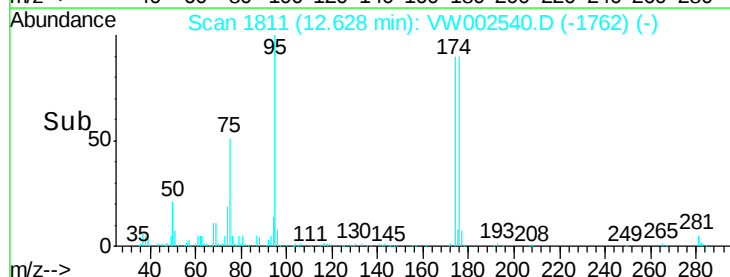
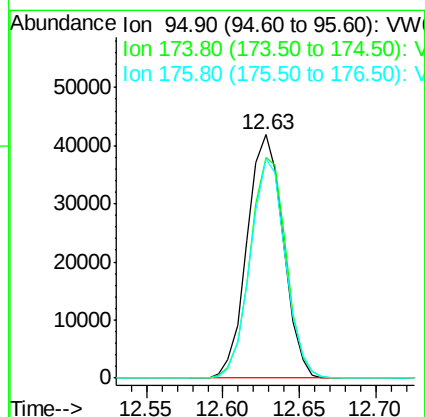
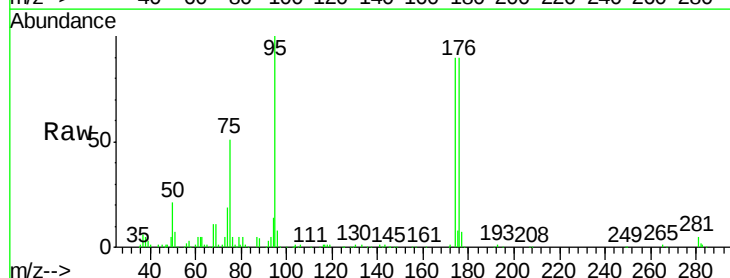
Tgt Ion: 95 Resp: 68793

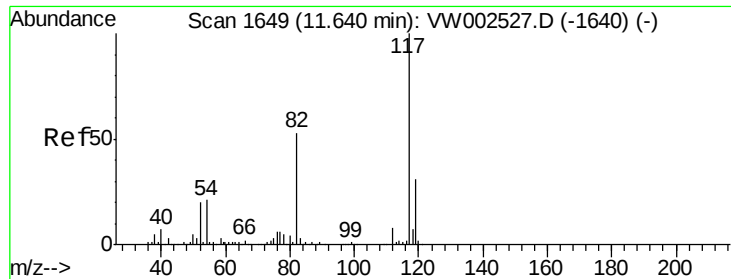
Ion Ratio Lower Upper

95 100

174 90.9 0.0 176.6

176 87.6 0.0 172.2

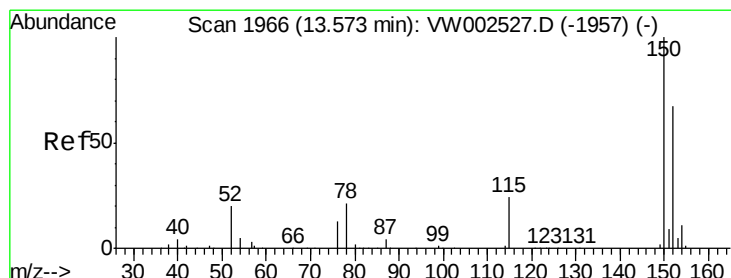
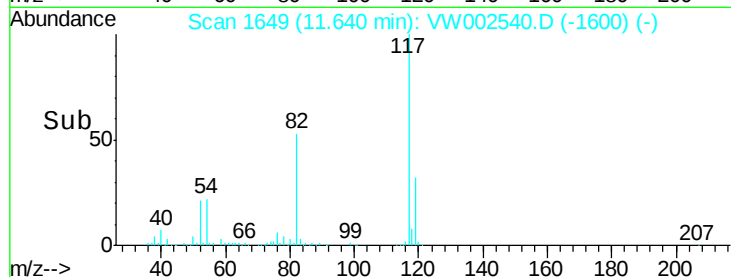
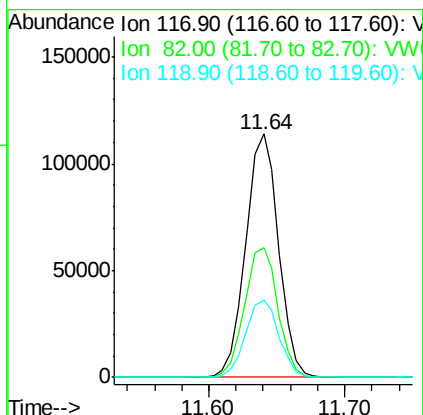
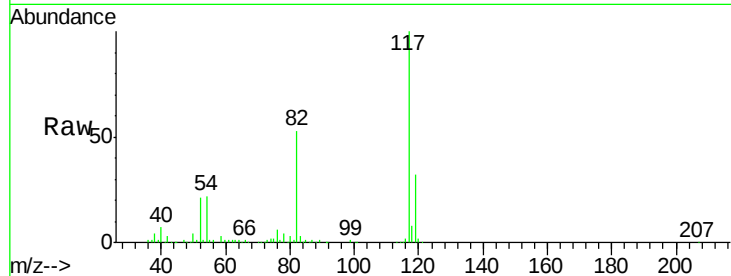




#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 11.64 min Scan# 1649  
Delta R.T. -0.00 min  
Lab File: VW002540.D  
Acq: 15 May 2018 04:21

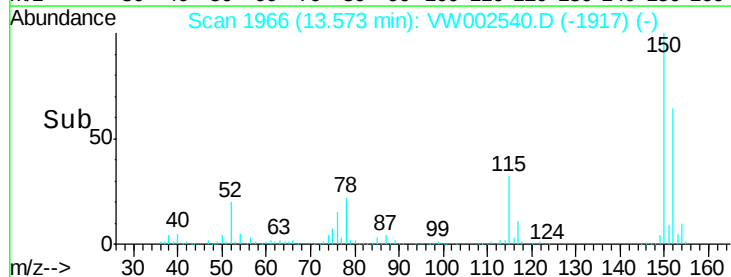
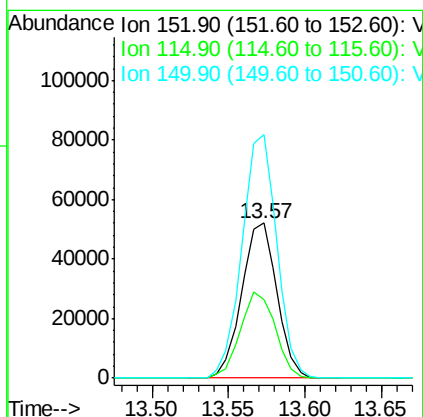
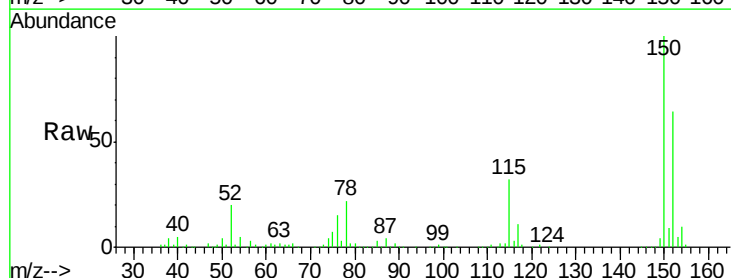
Instrument :  
MSVOA\_W  
ClientSampled :  
SP-A

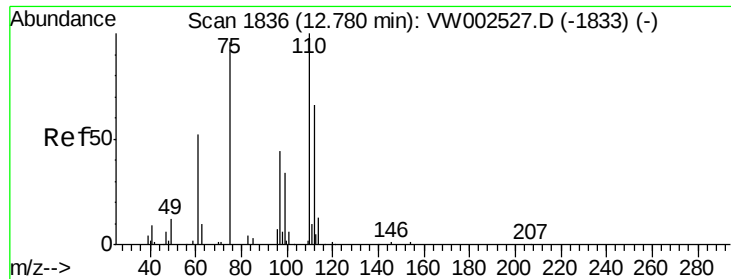
Tgt Ion:117 Resp: 192465  
Ion Ratio Lower Upper  
117 100  
82 53.2 42.6 64.0  
119 31.6 25.0 37.6



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.00 ug/l  
RT: 13.57 min Scan# 1966  
Delta R.T. -0.00 min  
Lab File: VW002540.D  
Acq: 15 May 2018 04:21

Tgt Ion:152 Resp: 83146  
Ion Ratio Lower Upper  
152 100  
115 55.6 28.0 84.0  
150 156.1 0.0 345.4

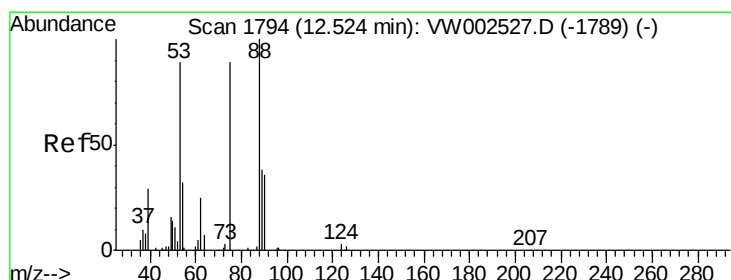
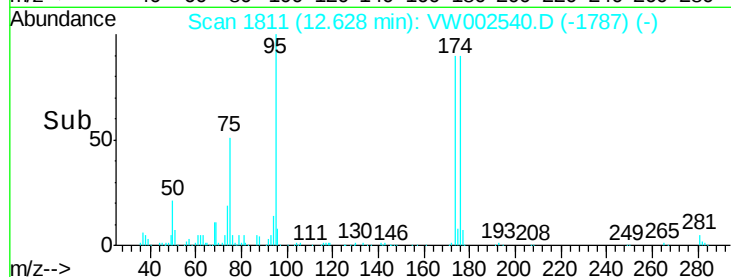
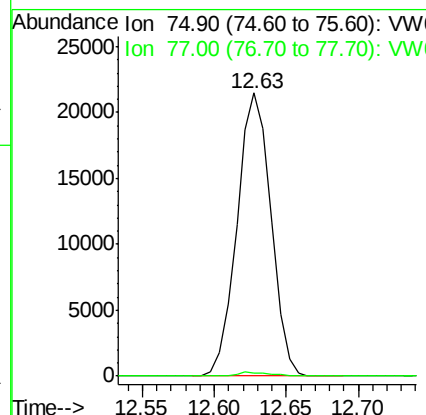
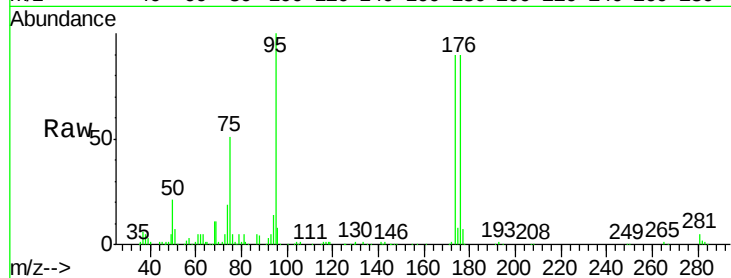




#76  
 1,2,3-Trichloropropane  
 Concen: 44.84 ug/l  
 RT: 12.63 min Scan# 1811  
 Delta R.T. -0.15 min  
 Lab File: VW002540.D  
 Acq: 15 May 2018 04:21

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 SP-A

Tgt Ion: 75 Resp: 35242  
 Ion Ratio Lower Upper  
 75 100  
 77 1.3 0.0 0.0#



#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 122.25 ug/l  
 RT: 12.63 min Scan# 1811  
 Delta R.T. 0.10 min  
 Lab File: VW002540.D  
 Acq: 15 May 2018 04:21

Tgt Ion: 75 Resp: 35242  
 Ion Ratio Lower Upper  
 75 100  
 53 0.0 82.6 124.0#  
 89 0.0 39.2 58.8#

