

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_W\DATA\VW110418\  
 Data File : VW006605.D  
 Acq On : 02 Nov 2018 16:58  
 Operator : SY/AP  
 Sample : J5724-01  
 Misc : 5.05G/5ML/MSVOA\_W/SOIL  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 DARK-SOIL(NEAR-BERM)

Quant Time: Nov 03 00:26:17 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W110218S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Nov 01 03:48:08 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.95  | 168  | 253120   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.85  | 114  | 365525   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 310840   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.57 | 152  | 135484   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|-------|--------|----------|
| 33) 1,2-Dichloroethane-d4   | 8.31  | 65   | 90372    | 41.53 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 83.06% |          |
| 35) Dibromofluoromethane    | 7.88  | 113  | 95613    | 41.68 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 83.36% |          |
| 50) Toluene-d8              | 10.32 | 98   | 333481   | 38.19 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 76.38% |          |
| 62) 4-Bromofluorobenzene    | 12.62 | 95   | 103113   | 32.57 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 65.14% |          |

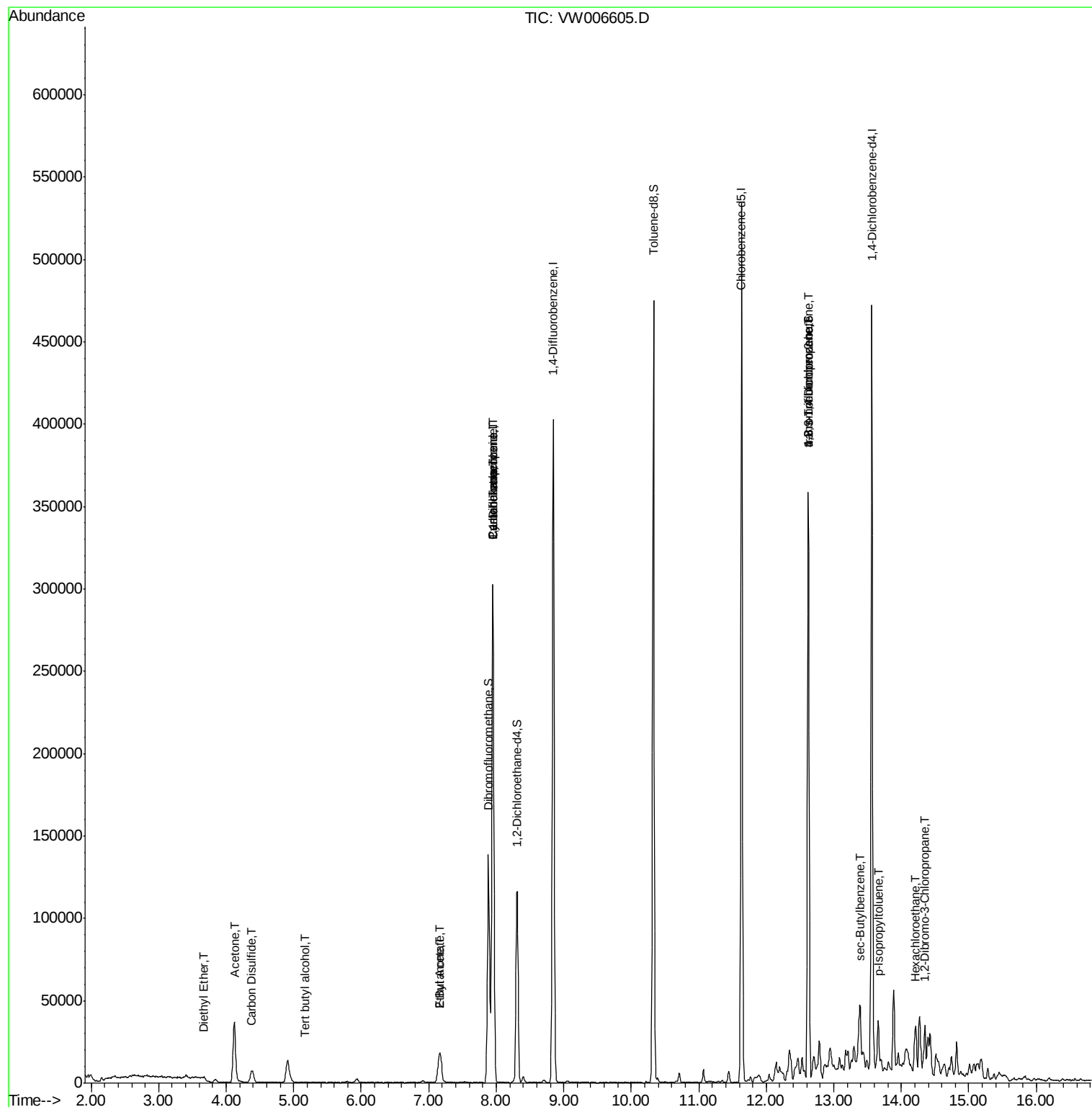
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 8) Diethyl Ether               | 3.68  | 74   | 1504     | 1.374     | ug/l   | 86     |
| 11) Tert butyl alcohol         | 5.18  | 59   | 697      | 5.946     | ug/l # | 84     |
| 16) Acetone                    | 4.12  | 43   | 62933    | 179.152   | ug/l   | 98     |
| 17) Carbon Disulfide           | 4.37  | 76   | 14515    | 2.470     | ug/l   | 98     |
| 20) Methylene Chloride         | 4.91  | 84   | 12641    | Below Cal |        | 92     |
| 25) 2-Butanone                 | 7.17  | 43   | 20645    | 41.186    | ug/l   | 94     |
| 31) Cyclohexane                | 7.95  | 56   | 4152     | 1.198     | ug/l # | 12     |
| 36) 1,1-Dichloropropene        | 7.95  | 75   | 16179    | 5.033     | ug/l # | 47     |
| 37) Ethyl Acetate              | 7.17  | 43   | 20645    | 18.533    | ug/l # | 69     |
| 38) Carbon Tetrachloride       | 7.95  | 117  | 22095    | 6.578     | ug/l # | 17     |
| 76) 1,2,3-Trichloropropane     | 12.62 | 75   | 52039    | 49.229    | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.62 | 75   | 52039    | 123.365   | ug/l # | 11     |
| 85) sec-Butylbenzene           | 13.39 | 105  | 21192    | 2.263     | ug/l # | 62     |
| 86) p-Isopropyltoluene         | 13.66 | 119  | 10916    | 1.281     | ug/l   | 95     |
| 90) Hexachloroethane           | 14.22 | 117  | 12781    | 9.126     | ug/l # | 3      |
| 92) 1,2-Dibromo-3-Chloropropan | 14.34 | 75   | 747      | 3.266     | ug/l # | 1      |

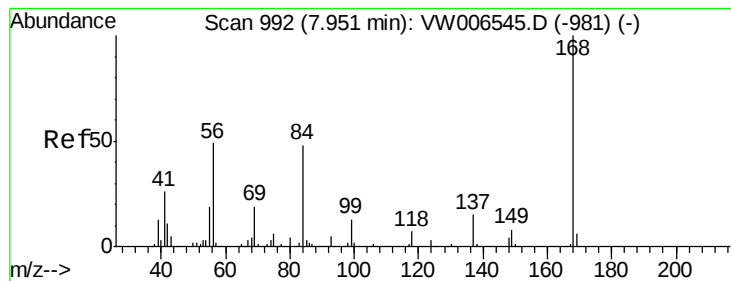
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260  
QLast Update : Thu Nov 01 03:48:08 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 992

Delta R.T. 0.00 min

Lab File: VW006605.D

Acq: 02 Nov 2018 16:58

Instrument :

MSVOA\_W

ClientSampleId :

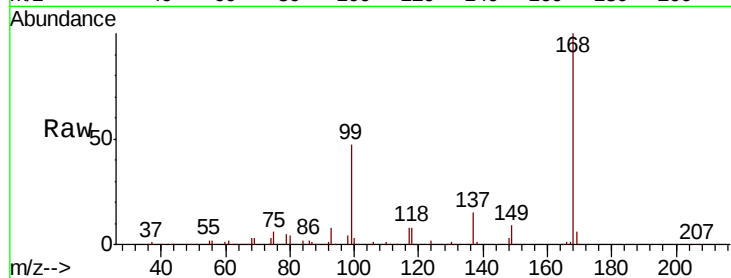
DARK-SOIL(NEAR-BERM)

Tgt Ion:168 Resp: 253120

Ion Ratio Lower Upper

168 100

99 46.9 37.4 56.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

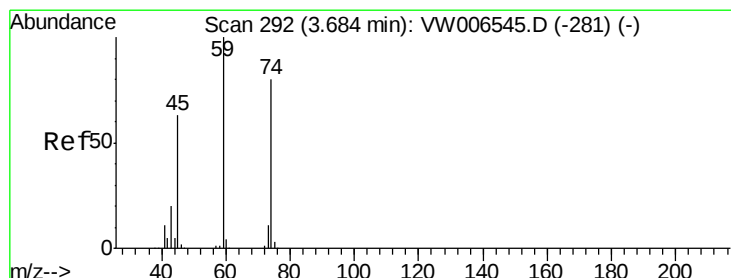
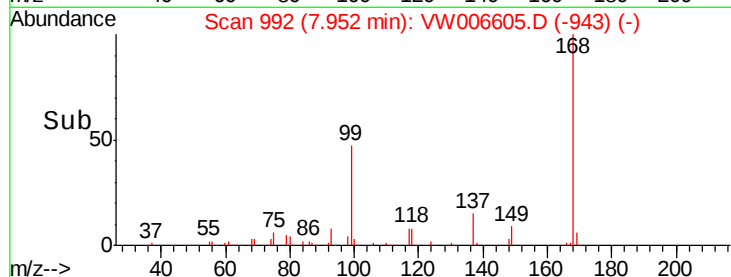
7.95

100000

50000

0

Time-->



#8

Diethyl Ether

Concen: 1.374 ug/l

RT: 3.68 min Scan# 291

Delta R.T. -0.01 min

Lab File: VW006605.D

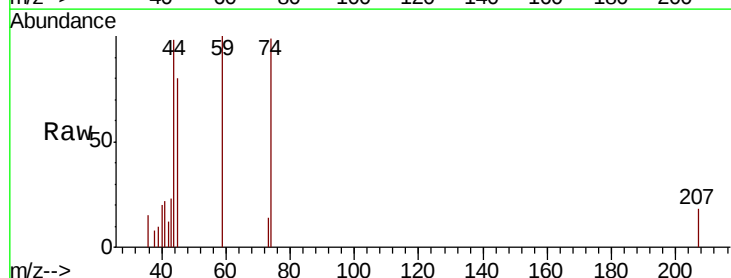
Acq: 02 Nov 2018 16:58

Tgt Ion: 74 Resp: 1504

Ion Ratio Lower Upper

74 100

45 95.1 41.1 123.4



Abundance Ion 74.00 (73.70 to 74.70): VW

Ion 45.00 (44.70 to 45.70): VW

3.68

800

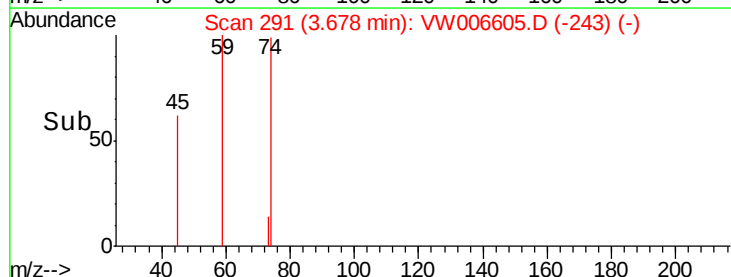
600

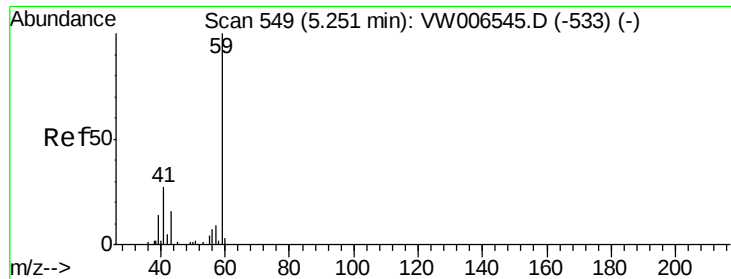
400

200

0

Time-->



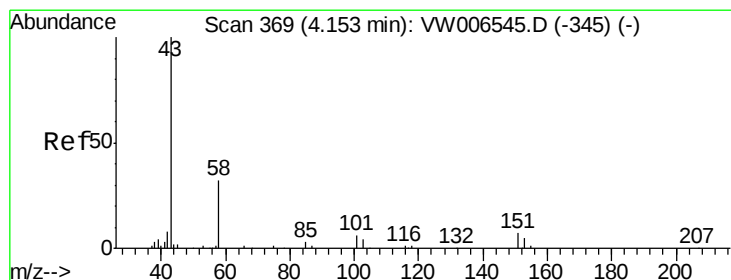
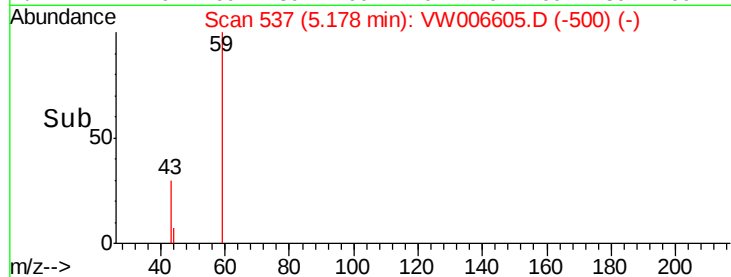
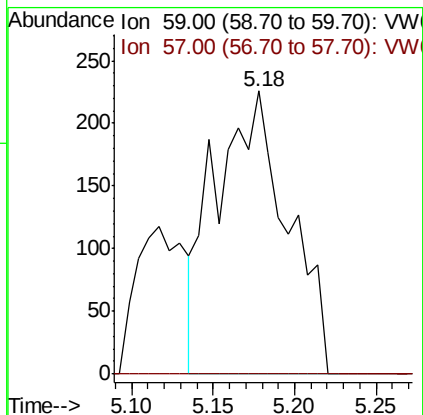
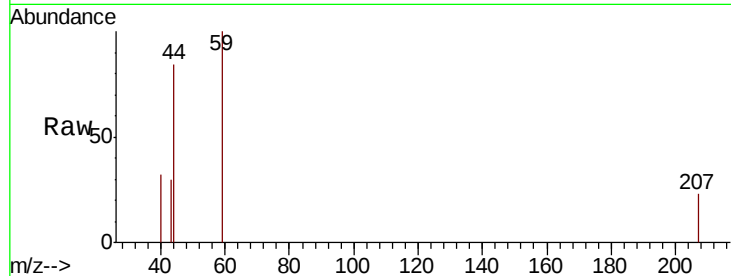


#11

Tert butyl alcohol  
 Concen: 5.946 ug/l  
 RT: 5.18 min Scan# 537  
 Delta R.T. -0.07 min  
 Lab File: VW006605.D  
 Acq: 02 Nov 2018 16:58

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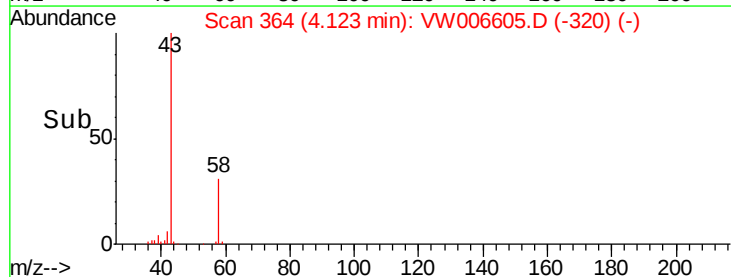
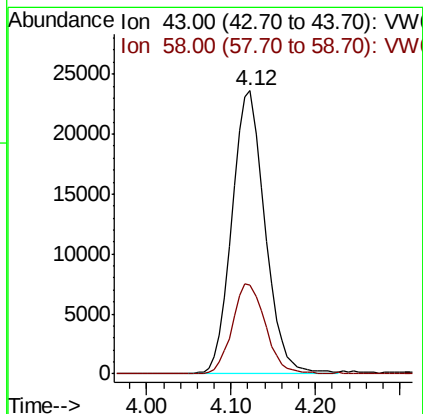
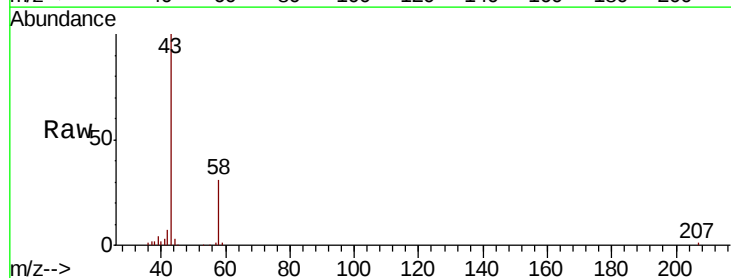
Tgt Ion: 59 Resp: 697  
 Ion Ratio Lower Upper  
 59 100  
 57 0.0 4.3 6.5#

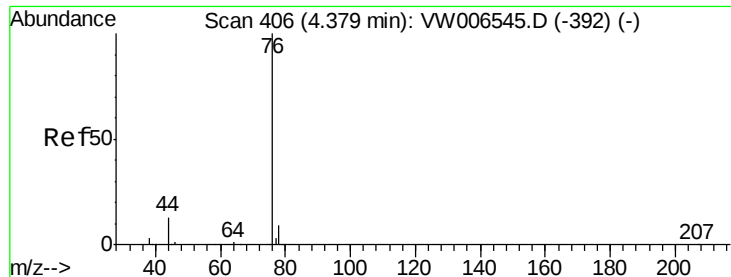


#16

Acetone  
 Concen: 179.152 ug/l  
 RT: 4.12 min Scan# 364  
 Delta R.T. -0.03 min  
 Lab File: VW006605.D  
 Acq: 02 Nov 2018 16:58

Tgt Ion: 43 Resp: 62933  
 Ion Ratio Lower Upper  
 43 100  
 58 31.4 25.8 38.8





#17

Carbon Disulfide

Concen: 2.470 ug/l

RT: 4.37 min Scan# 405

Delta R.T. -0.01 min

Lab File: VW006605.D

Acq: 02 Nov 2018 16:58

Instrument :

MSVOA\_W

ClientSampleId :

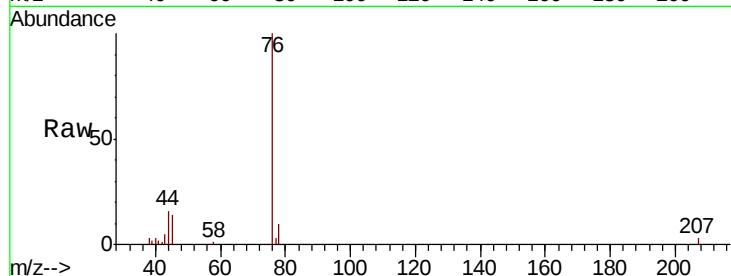
DARK-SOIL(NEAR-BERM)

Tgt Ion: 76 Resp: 14515

Ion Ratio Lower Upper

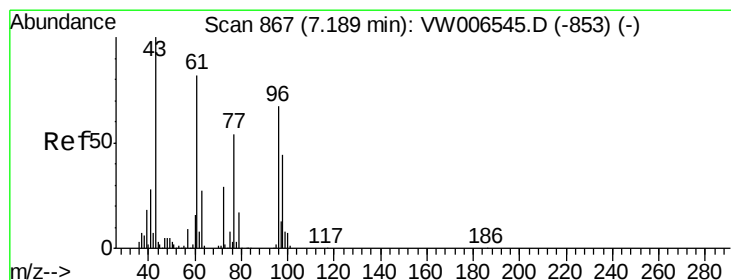
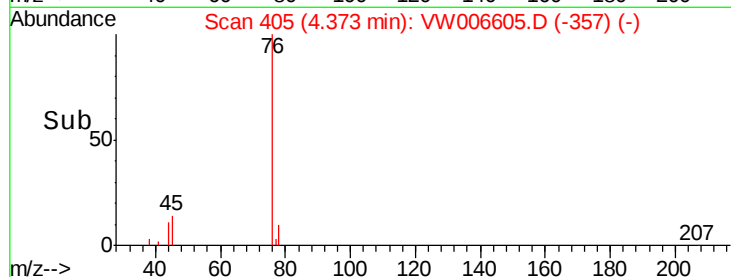
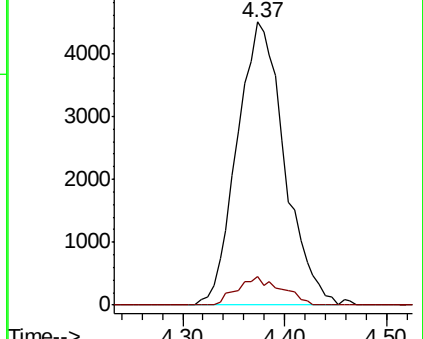
76 100

78 10.0 7.3 10.9



Abundance Ion 75.90 (75.60 to 76.60): VW

Ion 77.90 (77.60 to 78.60): VW



#25

2-Butanone

Concen: 41.186 ug/l

RT: 7.17 min Scan# 864

Delta R.T. -0.02 min

Lab File: VW006605.D

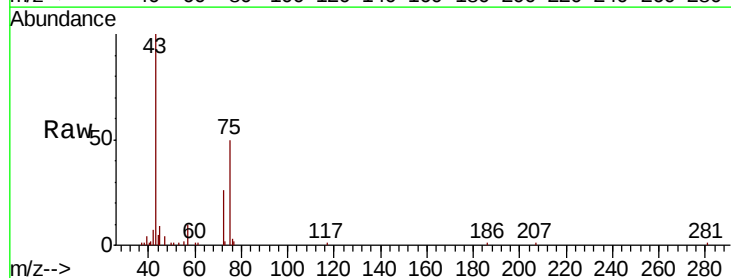
Acq: 02 Nov 2018 16:58

Tgt Ion: 43 Resp: 20645

Ion Ratio Lower Upper

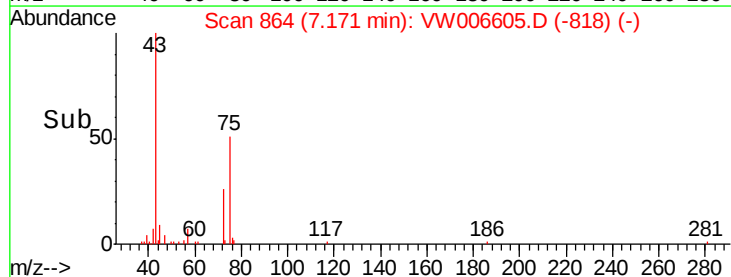
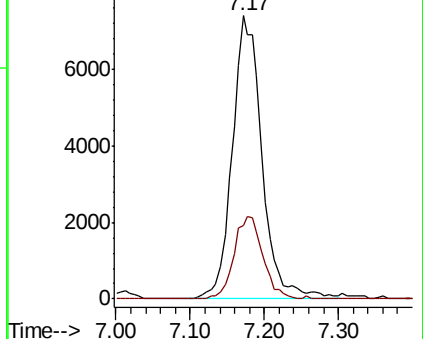
43 100

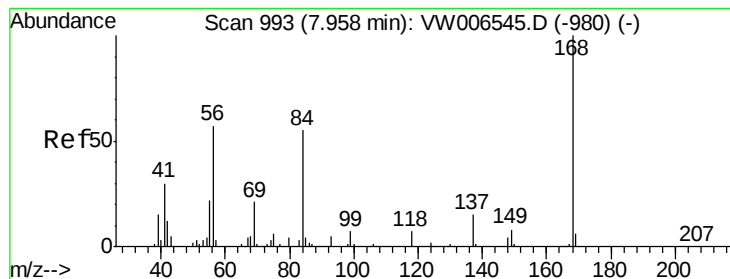
72 25.9 23.2 34.8



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 72.00 (71.70 to 72.70): VW





#31

Cyclohexane

Concen: 1.198 ug/l

RT: 7.95 min Scan# 992

Delta R.T. -0.01 min

Lab File: VW006605.D

Acq: 02 Nov 2018 16:58

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ClientSampleId :

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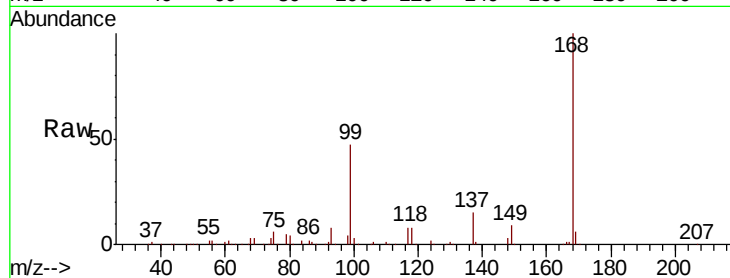
Tgt Ion: 56 Resp: 4152

Ion Ratio Lower Upper

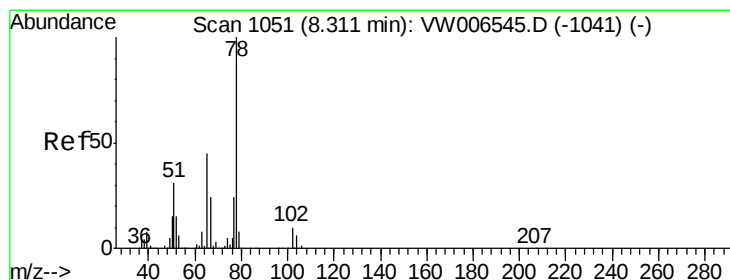
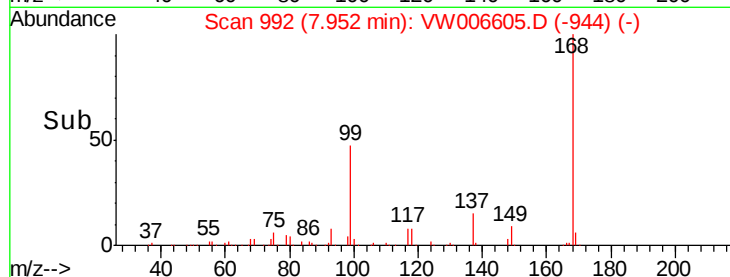
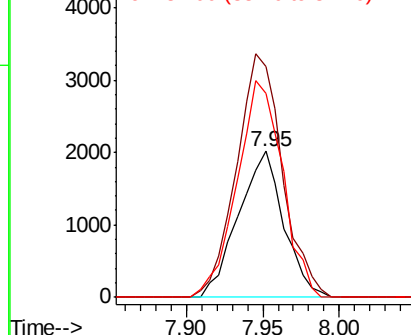
56 100

69 158.2 29.0 43.4#

84 139.8 77.8 116.6#



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: 41.535 ug/l

RT: 8.31 min Scan# 1050

Delta R.T. -0.01 min

Lab File: VW006605.D

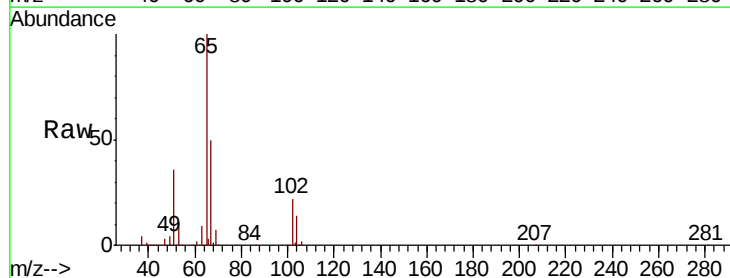
Acq: 02 Nov 2018 16:58

Tgt Ion: 65 Resp: 90372

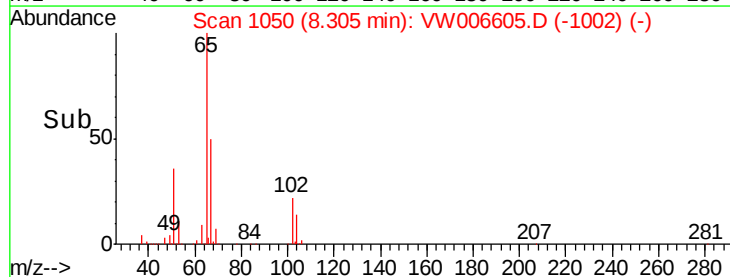
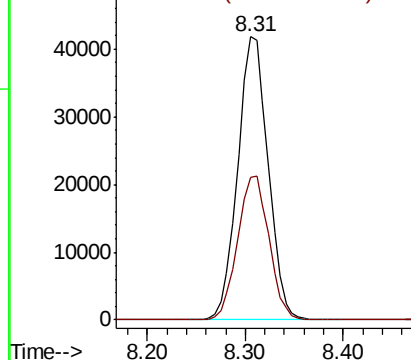
Ion Ratio Lower Upper

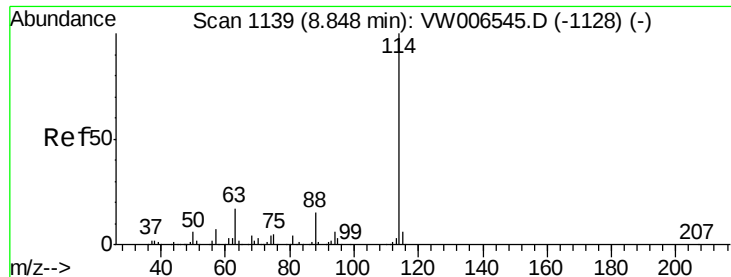
65 100

67 52.4 0.0 104.4



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

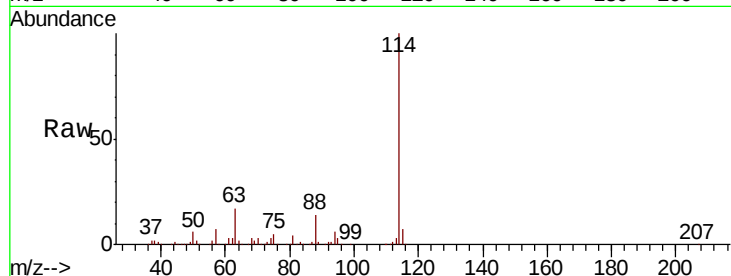




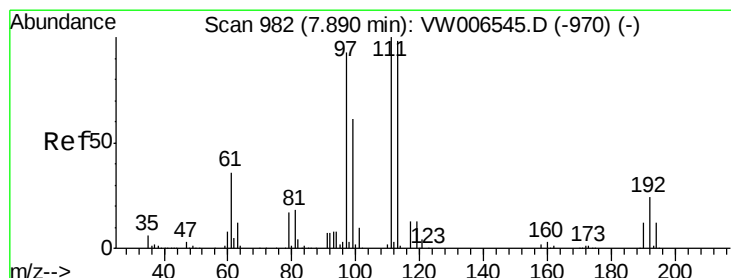
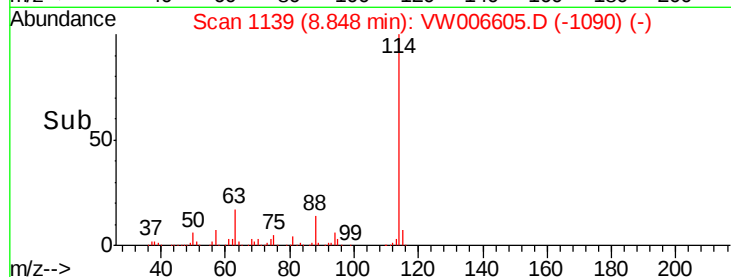
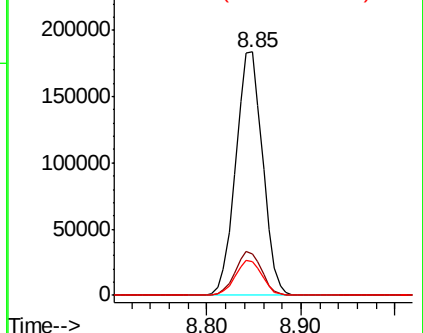
#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.85 min Scan# 1139  
 Delta R.T. 0.00 min  
 Lab File: VW006605.D  
 Acq: 02 Nov 2018 16:58

Instrument :  
 MSVOA\_W  
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 DARK-SOIL(NEAR-BERM)

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 114     | 100   |       |       |
| 63      | 16.9  | 0.0   | 34.4  |
| 88      | 14.0  | 0.0   | 29.0  |

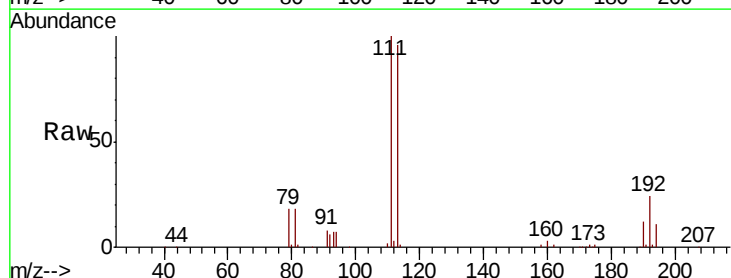


Abundance Ion 113.90 (113.60 to 114.60): V  
 Ion 63.00 (62.70 to 63.70): VW  
 Ion 87.90 (87.60 to 88.60): VW

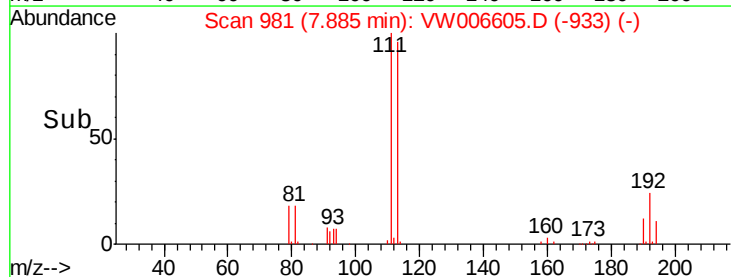
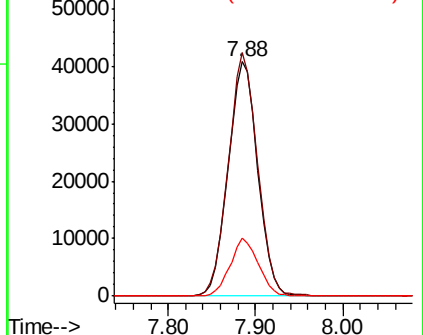


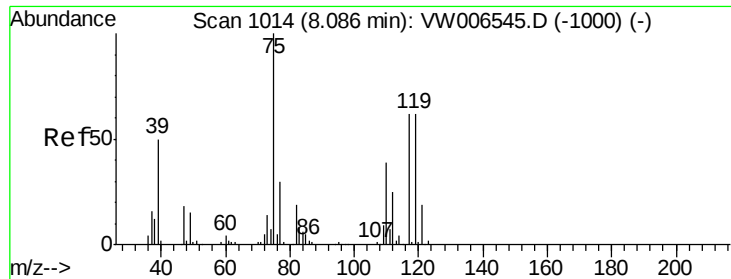
#35  
 Dibromofluoromethane  
 Concen: 41.680 ug/l  
 RT: 7.88 min Scan# 981  
 Delta R.T. -0.01 min  
 Lab File: VW006605.D  
 Acq: 02 Nov 2018 16:58

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 102.6 | 82.2  | 123.2 |
| 192     | 23.7  | 19.0  | 28.6  |



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

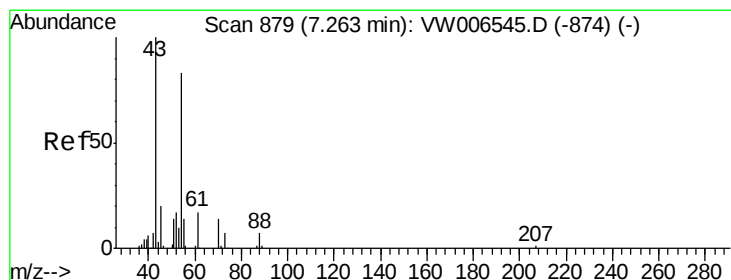
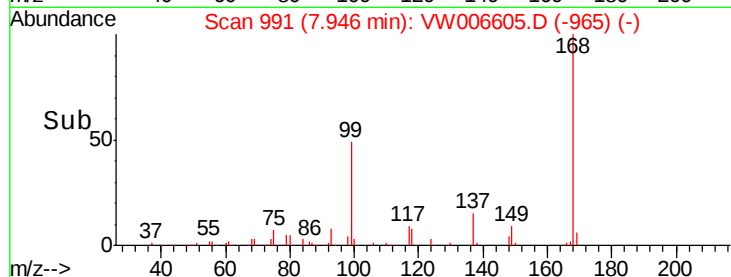
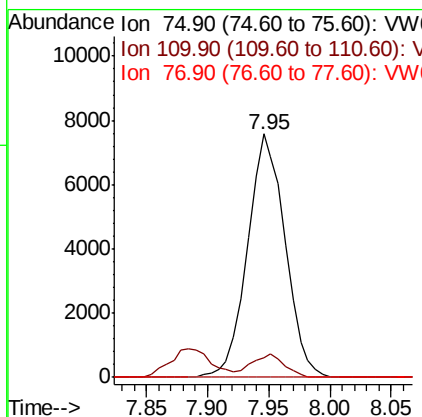
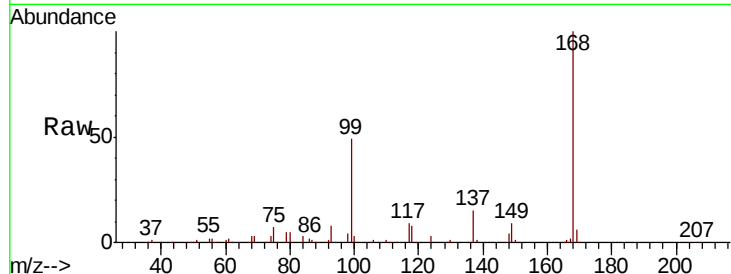




#36  
 1,1-Dichloropropene  
 Concen: 5.033 ug/l  
 RT: 7.95 min Scan# 991  
 Delta R.T. -0.14 min  
 Lab File: VW006605.D  
 Acq: 02 Nov 2018 16:58

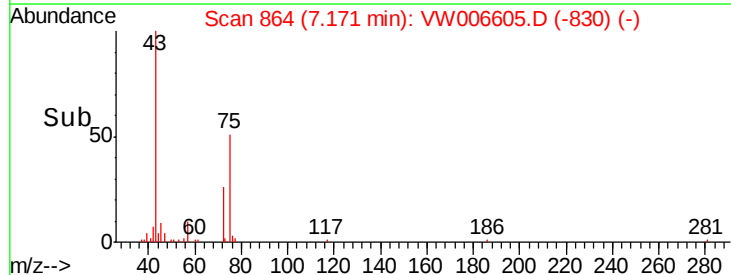
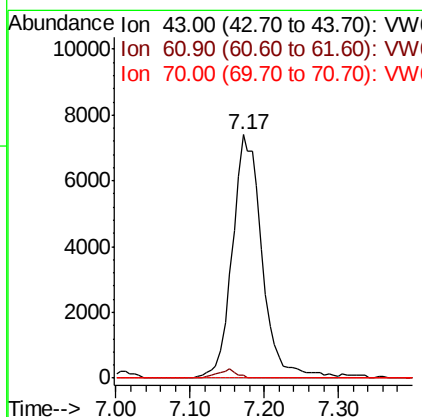
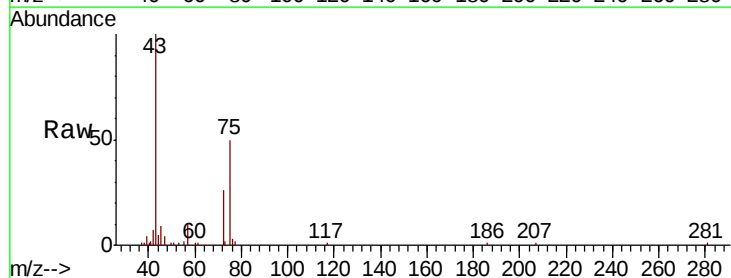
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 DARK-SOIL(NEAR-BERM)

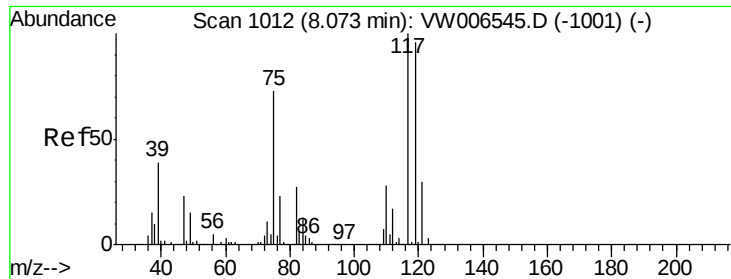
Tgt Ion: 75 Resp: 16179  
 Ion Ratio Lower Upper  
 75 100  
 110 8.5 19.5 58.5#  
 77 0.0 24.6 37.0#



#37  
 Ethyl Acetate  
 Concen: 18.533 ug/l  
 RT: 7.17 min Scan# 864  
 Delta R.T. -0.09 min  
 Lab File: VW006605.D  
 Acq: 02 Nov 2018 16:58

Tgt Ion: 43 Resp: 20645  
 Ion Ratio Lower Upper  
 43 100  
 61 2.3 12.1 18.1#  
 70 0.0 9.8 14.6#





#38

Carbon Tetrachloride

Concen: 6.578 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.13 min

Lab File: VW006605.D

Acq: 02 Nov 2018 16:58

Instrument :

MSVOA\_W

ClientSampleId :

DARK-SOIL(NEAR-BERM)

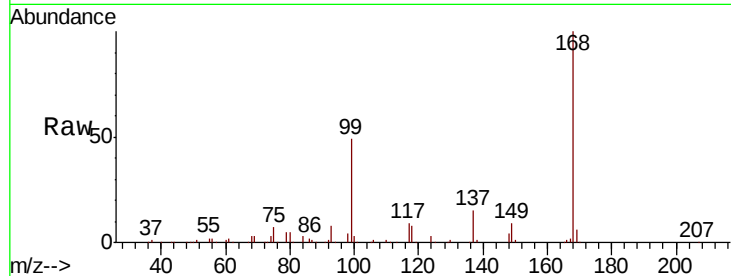
Tgt Ion:117 Resp: 22095

Ion Ratio Lower Upper

117 100

119 5.6 76.3 114.5#

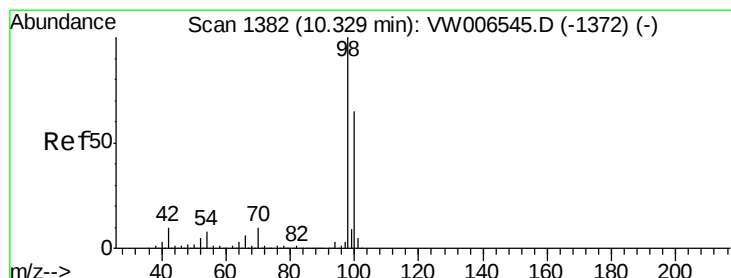
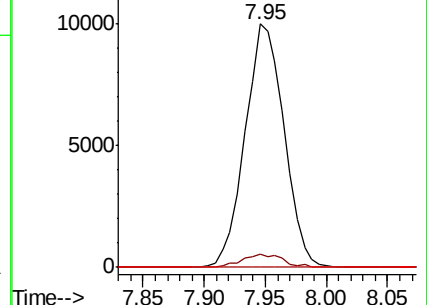
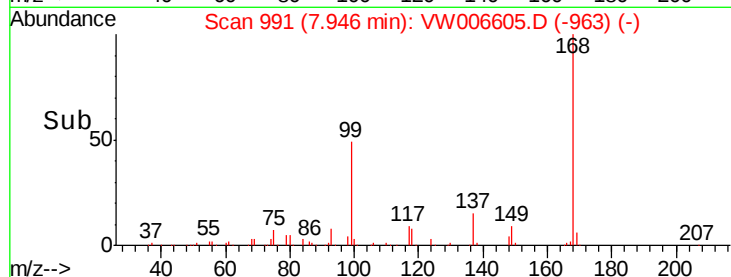
121 0.0 24.1 36.1#



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



#50

Toluene-d8

Concen: 38.188 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. -0.01 min

Lab File: VW006605.D

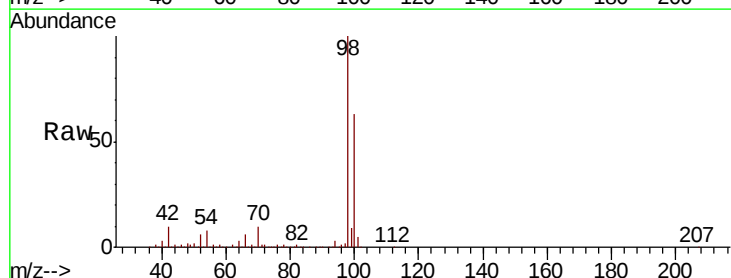
Acq: 02 Nov 2018 16:58

Tgt Ion: 98 Resp: 333481

Ion Ratio Lower Upper

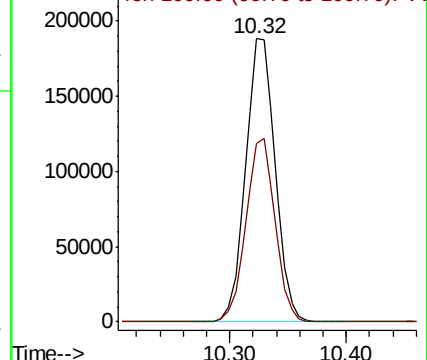
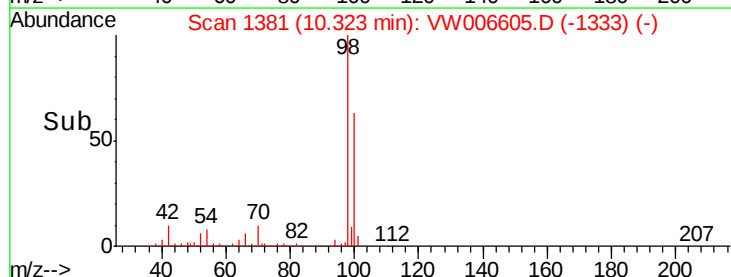
98 100

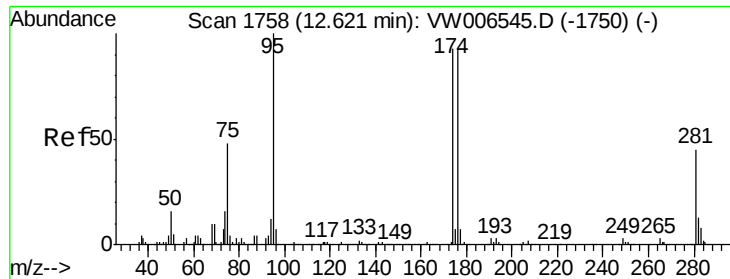
100 63.9 51.6 77.4



Abundance Ion 98.00 (97.70 to 98.70): VW

Ion 100.00 (99.70 to 100.70): VW

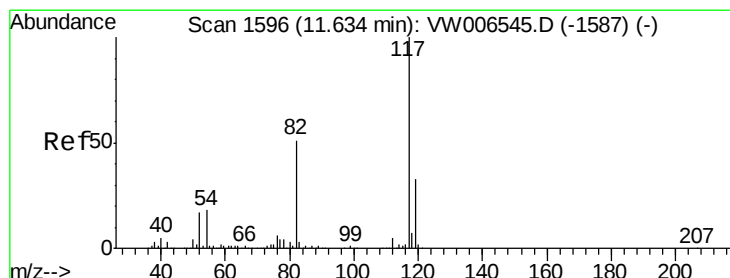
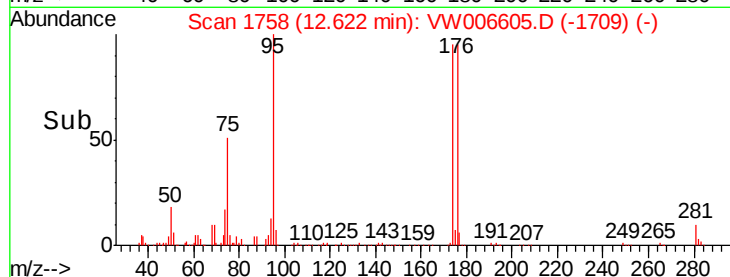
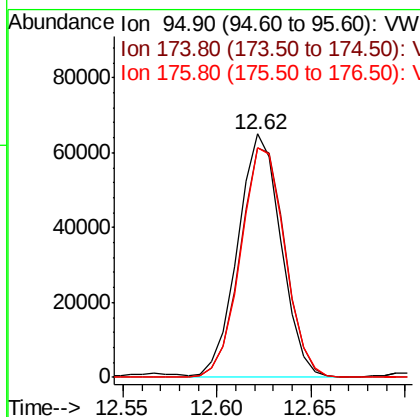
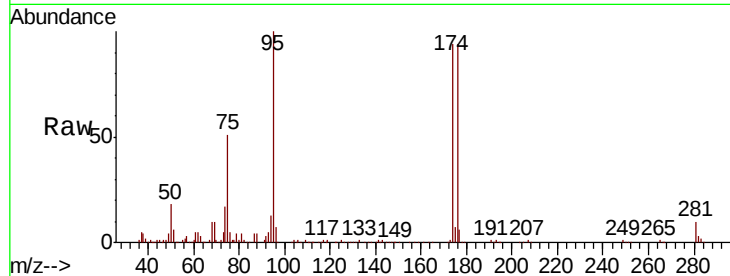




#62  
4-Bromofluorobenzene  
Concen: 32.570 ug/l  
RT: 12.62 min Scan# 1758  
Delta R.T. 0.00 min  
Lab File: VW006605.D  
Acq: 02 Nov 2018 16:58

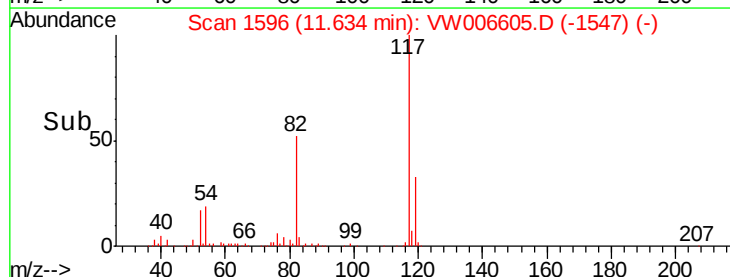
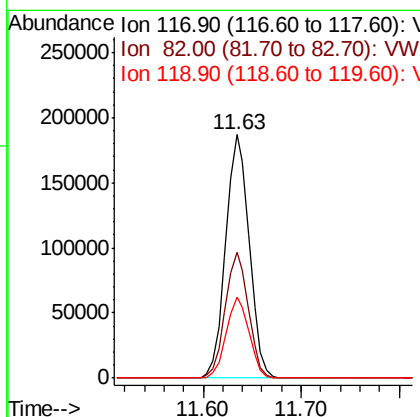
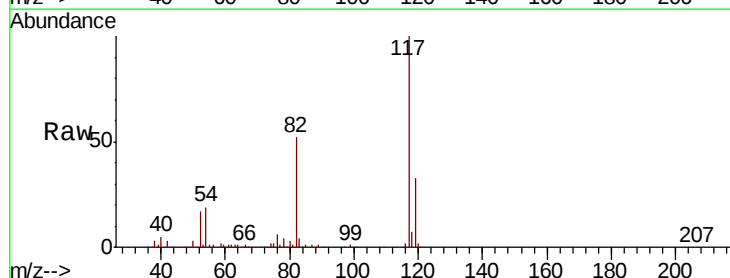
Instrument :  
MSVOA\_W  
ClientSampleId :  
DARK-SOIL(NEAR-BERM)

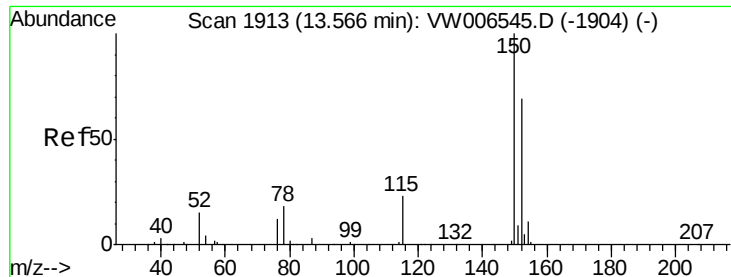
Tgt Ion: 95 Resp: 103113  
Ion Ratio Lower Upper  
95 100  
174 98.1 0.0 192.4  
176 96.6 0.0 187.4



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.63 min Scan# 1596  
Delta R.T. 0.00 min  
Lab File: VW006605.D  
Acq: 02 Nov 2018 16:58

Tgt Ion: 117 Resp: 310840  
Ion Ratio Lower Upper  
117 100  
82 51.9 40.8 61.2  
119 33.3 26.1 39.1





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.57 min Scan# 1913

Delta R.T. 0.00 min

Lab File: VW006605.D

Acq: 02 Nov 2018 16:58

Instrument :

MSVOA\_W

ClientSampleId :

DARK-SOIL(NEAR-BERM)

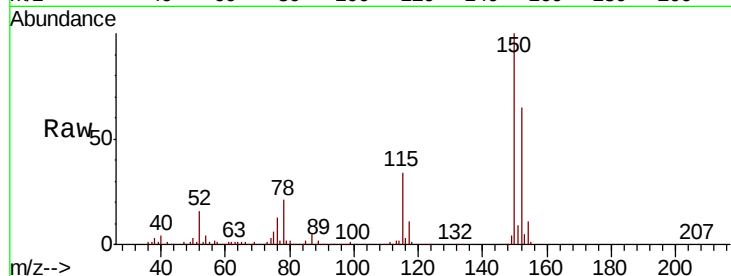
Tgt Ion:152 Resp: 135484

Ion Ratio Lower Upper

152 100

115 54.1 26.6 79.8

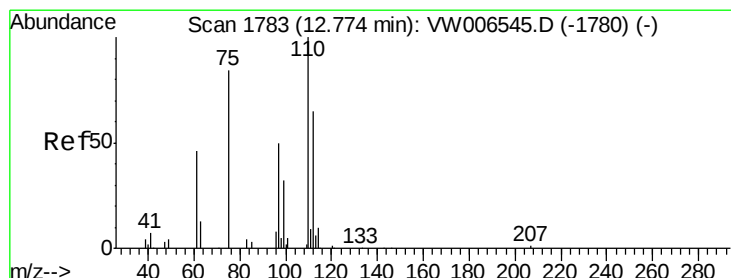
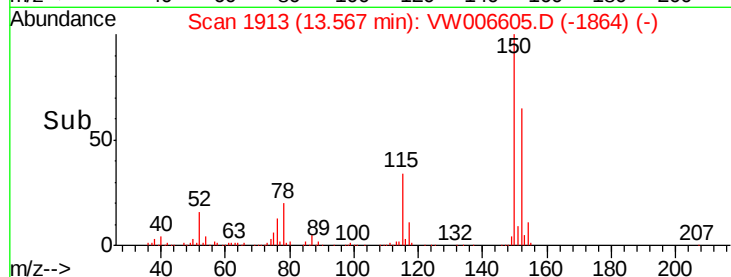
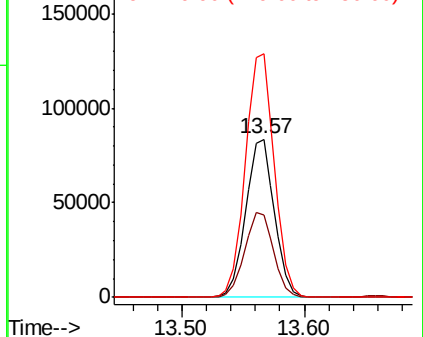
150 155.8 0.0 344.6



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 49.229 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.15 min

Lab File: VW006605.D

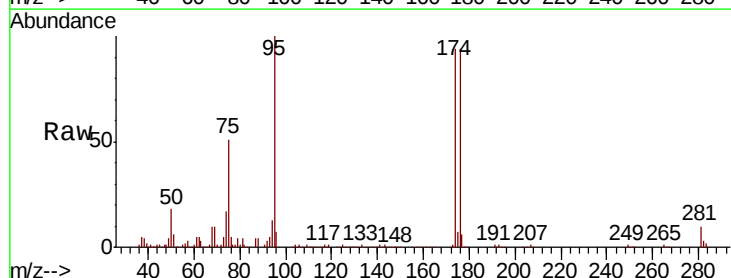
Acq: 02 Nov 2018 16:58

Tgt Ion: 75 Resp: 52039

Ion Ratio Lower Upper

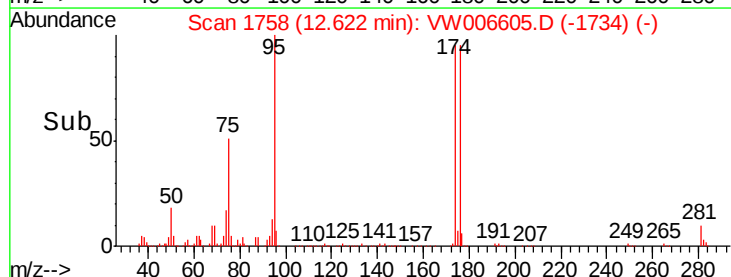
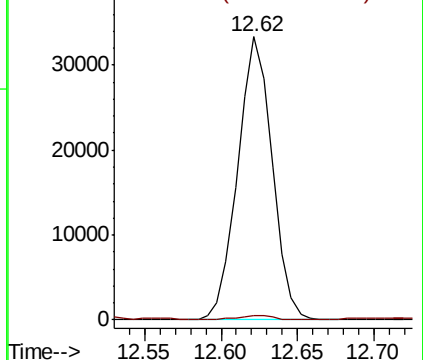
75 100

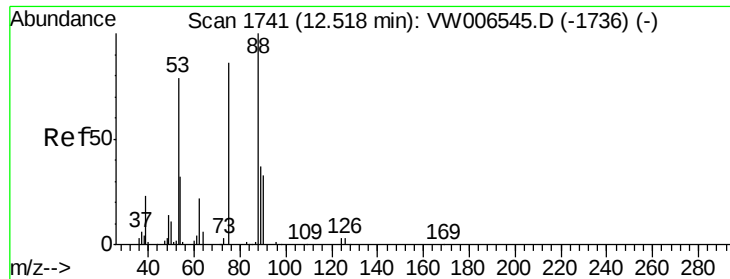
77 1.8 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 77.00 (76.70 to 77.70): VW

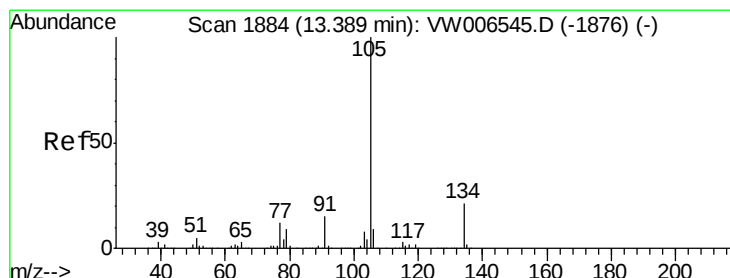
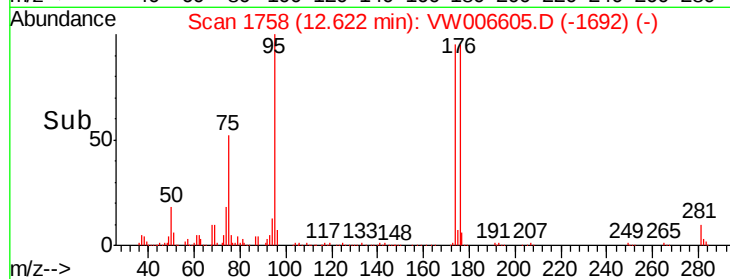
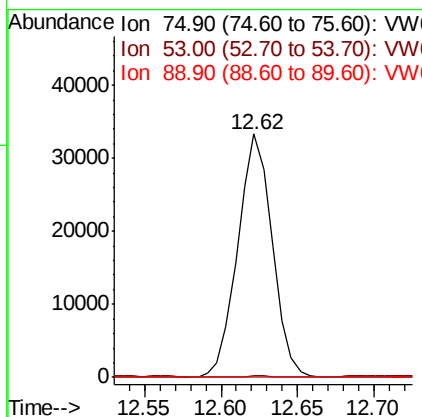
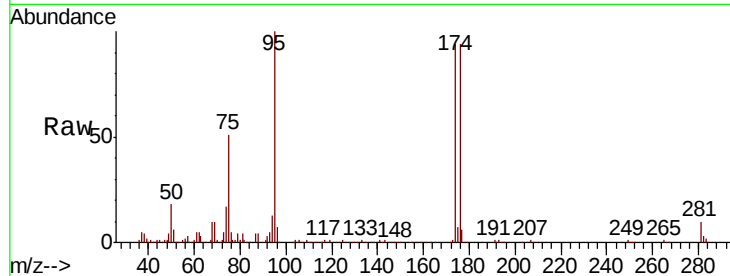




#81  
trans-1,4-Dichloro-2-butene  
Concen: 123.365 ug/l  
RT: 12.62 min Scan# 1758  
Delta R.T. 0.10 min  
Lab File: VW006605.D  
Acq: 02 Nov 2018 16:58

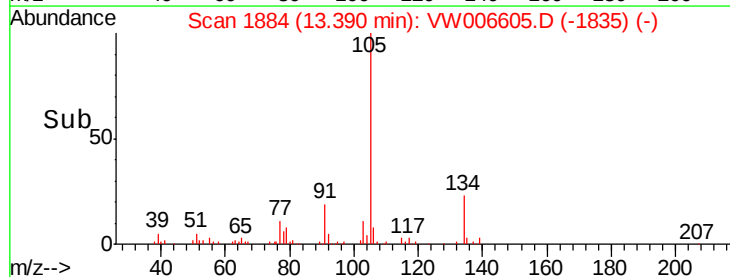
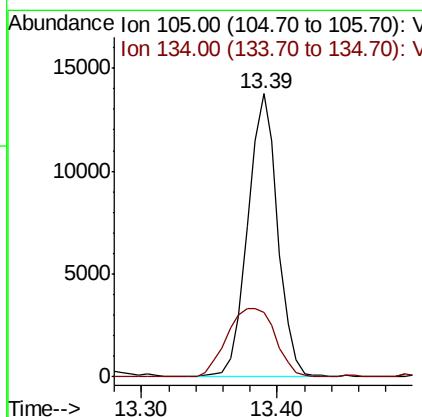
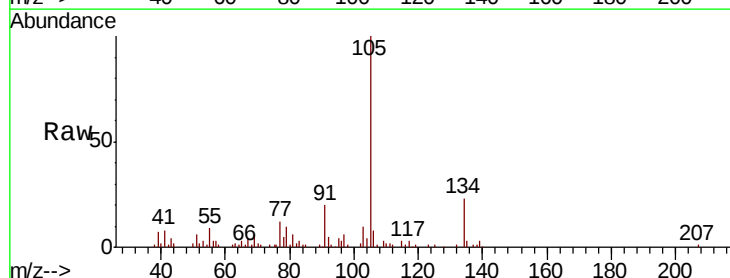
Instrument :  
MSVOA\_W  
ClientSampleId :  
DARK-SOIL(NEAR-BERM)

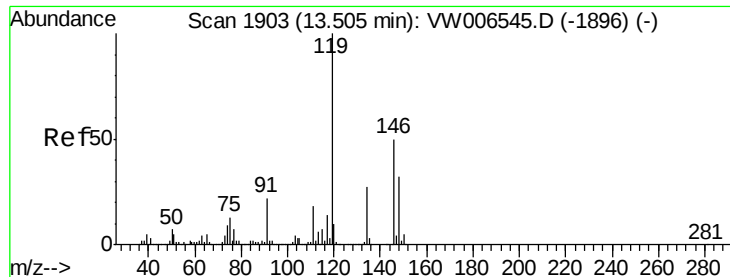
Tgt Ion: 75 Resp: 52039  
Ion Ratio Lower Upper  
75 100  
53 0.6 77.2 115.8#  
89 0.0 38.6 58.0#



#85  
sec-Butylbenzene  
Concen: 2.263 ug/l  
RT: 13.39 min Scan# 1884  
Delta R.T. 0.00 min  
Lab File: VW006605.D  
Acq: 02 Nov 2018 16:58

Tgt Ion: 105 Resp: 21192  
Ion Ratio Lower Upper  
105 100  
134 38.9 10.6 31.8#

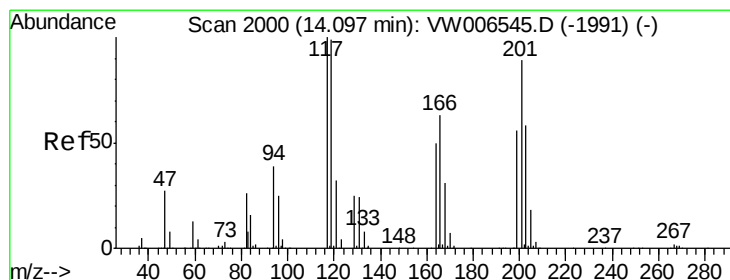
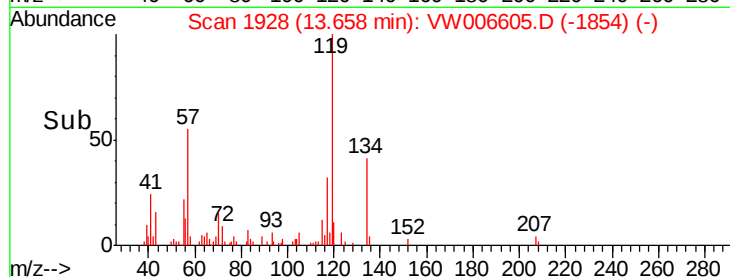
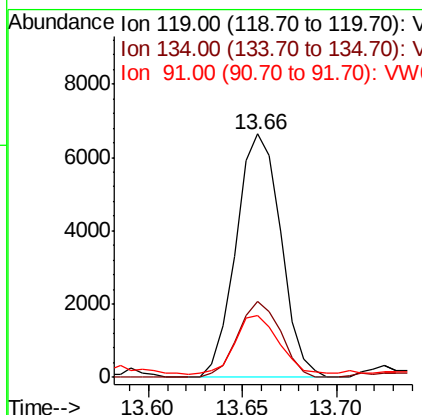
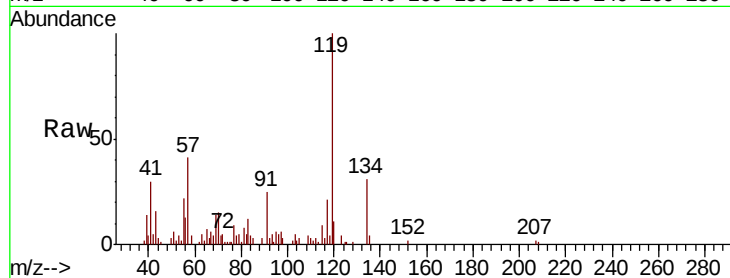




#86  
p-Isopropyltoluene  
Concen: 1.281 ug/l  
RT: 13.66 min Scan# 1928  
Delta R.T. 0.15 min  
Lab File: VW006605.D  
Acq: 02 Nov 2018 16:58

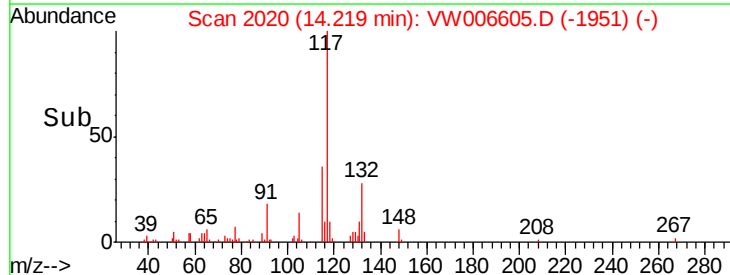
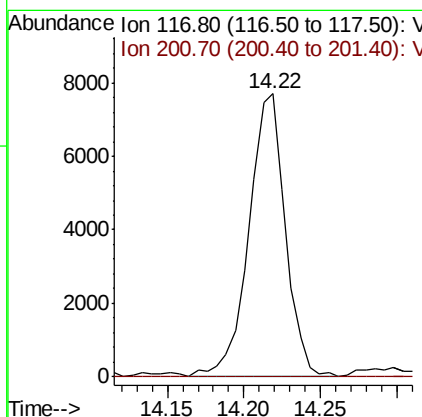
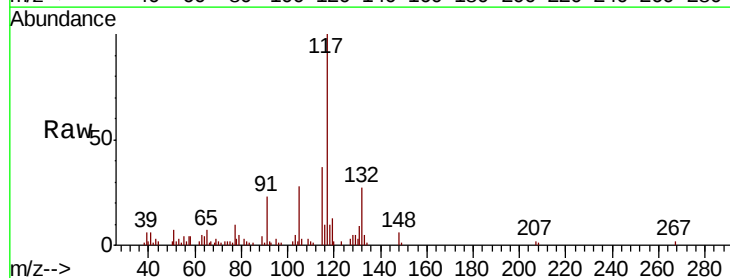
Instrument :  
MSVOA\_W  
ClientSampleId :  
DARK-SOIL(NEAR-BERM)

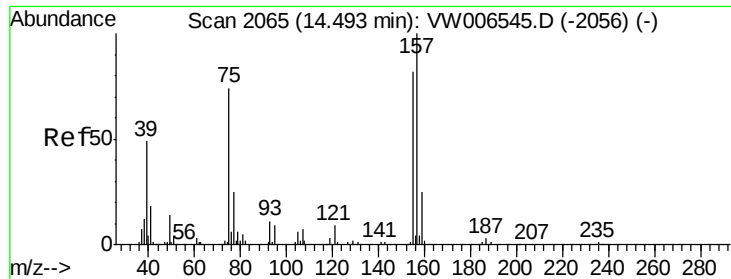
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 119     | 100   |       |       |
| 134     | 29.8  | 13.6  | 40.7  |
| 91      | 23.8  | 10.9  | 32.6  |



#90  
Hexachloroethane  
Concen: 9.126 ug/l  
RT: 14.22 min Scan# 2020  
Delta R.T. 0.12 min  
Lab File: VW006605.D  
Acq: 02 Nov 2018 16:58

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 117     | 100   |       |        |
| 201     | 0.0   | 46.8  | 140.3# |





#92  
 1,2-Dibromo-3-Chloropropane  
 Concen: 3.266 ug/l  
 RT: 14.34 min Scan# 2040  
 Delta R.T. -0.15 min  
 Lab File: VW006605.D  
 Acq: 02 Nov 2018 16:58

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 DARK-SOIL(NEAR-BERM)

Tgt Ion: 75 Resp: 747  
 Ion Ratio Lower Upper  
 75 100  
 155 0.0 50.6 151.8#  
 157 0.0 65.0 195.0#

