

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW091118\  
 Data File : VW005271.D  
 Acq On : 11 Sep 2018 13:20  
 Operator : SY/AP  
 Sample : J4809-05RE  
 Misc : 5.00G/5ML/MSVOA W/SOIL  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :

Quant Time: Sep 11 14:21:57 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W091018S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Sep 11 03:48:23 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.96  | 168  | 386355   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.85  | 114  | 514684   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.64 | 117  | 389266   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.57 | 152  | 120343   | 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   | 111842   | 38.81 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 77.62% |          |
| 35) Dibromofluoromethane    | 7.89  | 113  | 116319   | 43.14 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 86.28% |          |
| 50) Toluene-d8              | 10.33 | 98   | 498591   | 36.60 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 73.20% |          |
| 62) 4-Bromofluorobenzene    | 12.63 | 95   | 115298   | 23.14 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 46.28% |          |

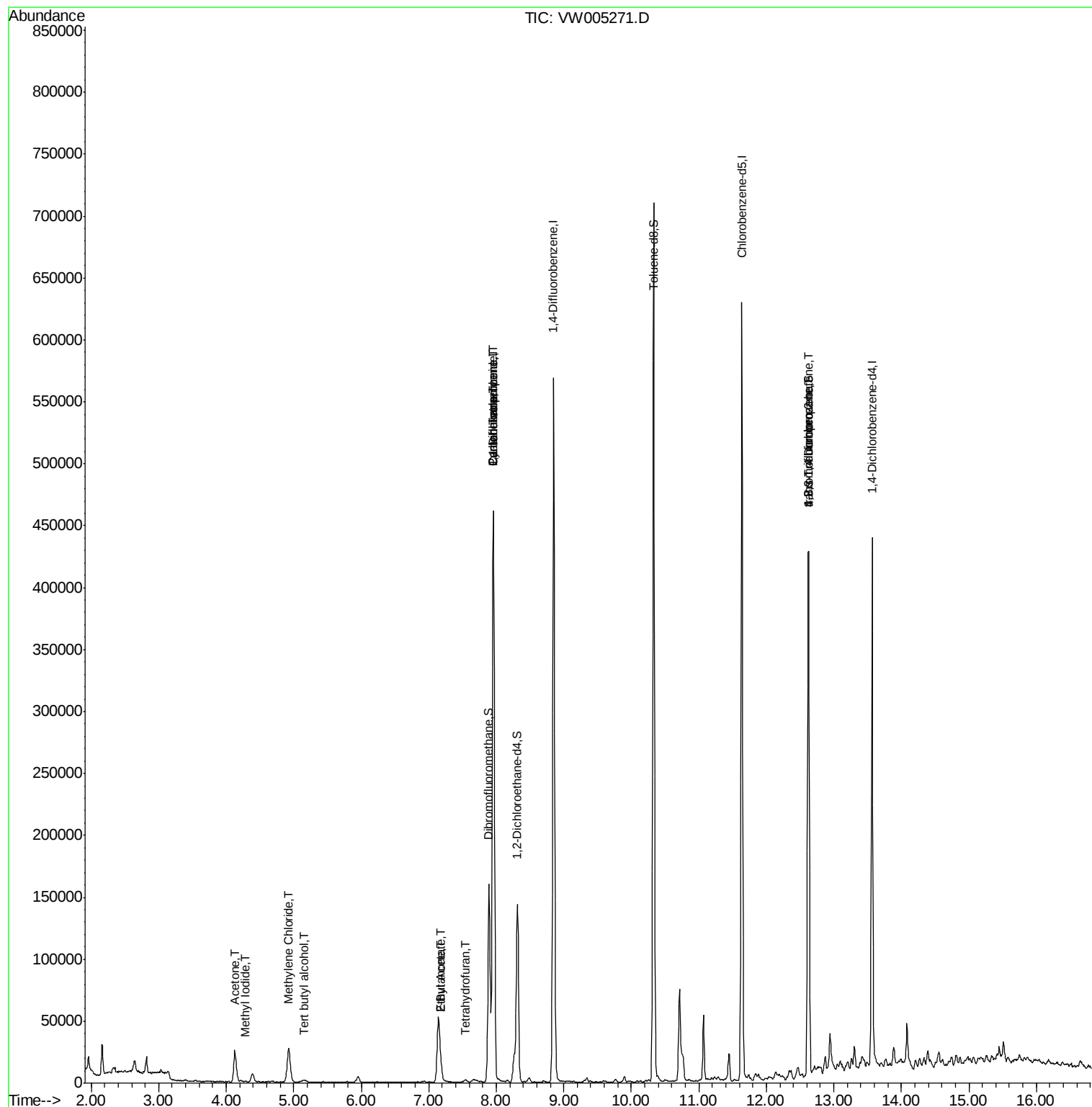
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 5) Bromomethane                | 2.78  | 94   | 637      | Below Cal | #      | 47     |
| 10) Methyl Iodide              | 4.28  | 142  | 300      | 3.395     | ug/l # | 45     |
| 11) Tert butyl alcohol         | 5.16  | 59   | 1624     | 6.872     | ug/l # | 73     |
| 16) Acetone                    | 4.13  | 43   | 44055    | 82.364    | ug/l   | 93     |
| 20) Methylene Chloride         | 4.92  | 84   | 22684    | 2.584     | ug/l   | 95     |
| 25) 2-Butanone                 | 7.18  | 43   | 14755    | 17.488    | ug/l   | 93     |
| 29) Tetrahydrofuran            | 7.54  | 42   | 1560     | 2.744     | ug/l # | 87     |
| 31) Cyclohexane                | 7.96  | 56   | 6398     | 1.038     | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 7.96  | 75   | 24902    | 5.281     | ug/l # | 48     |
| 37) Ethyl Acetate              | 7.18  | 43   | 14755    | 8.227     | ug/l # | 66     |
| 38) Carbon Tetrachloride       | 7.96  | 117  | 34112    | 7.723     | ug/l # | 15     |
| 76) 1,2,3-Trichloropropane     | 12.62 | 75   | 53777    | 58.098    | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.62 | 75   | 53777    | 136.254   | ug/l # | 16     |

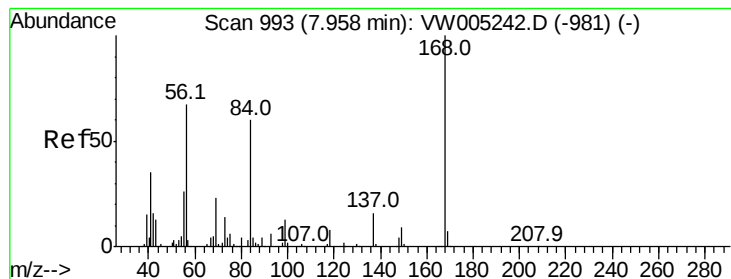
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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MSVOA\_W  
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Quant Time: Sep 11 14:21:57 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W091018S.M  
Quant Title : SW846 8260  
QLast Update : Tue Sep 11 03:48:23 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.96 min Scan# 993

Delta R.T. -0.00 min

Lab File: VW005271.D

Acq: 11 Sep 2018 13:20

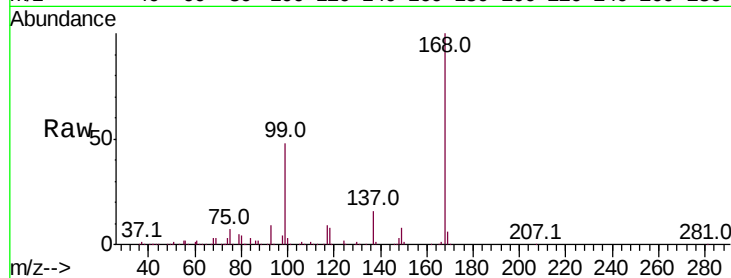
Instrument :  
MSVOA\_W  
ClientSampleId :

Tot Ion:168 Resp: 386355

Ion Ratio Lower Upper

168 100

99 47.6 39.1 58.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.96

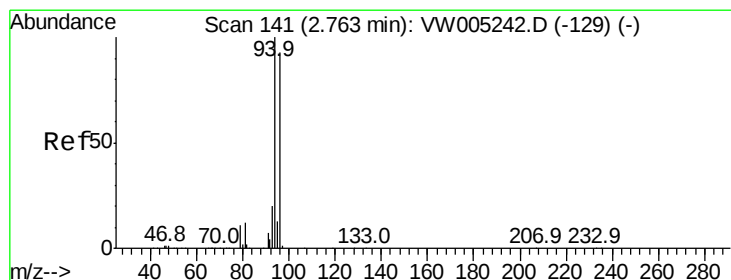
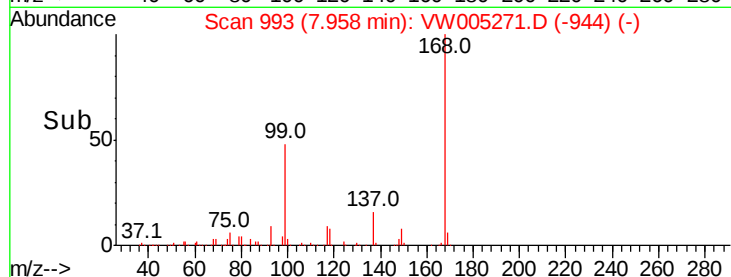
150000

100000

50000

0

Time--> 7.80 7.90 8.00 8.10



#5

Bromomethane

Concen: Below Cal

RT: 2.78 min Scan# 144

Delta R.T. 0.02 min

Lab File: VW005271.D

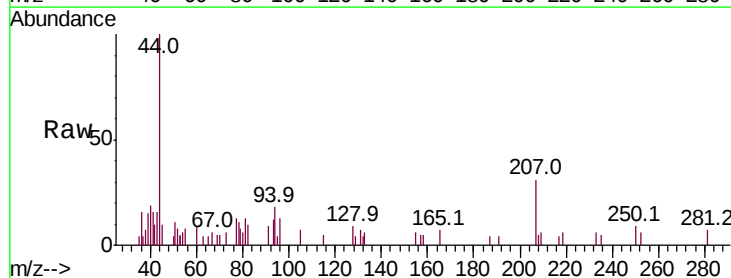
Acq: 11 Sep 2018 13:20

Tgt Ion: 94 Resp: 637

Ion Ratio Lower Upper

94 100

96 42.2 74.1 111.1#



Abundance Ion 93.90 (93.60 to 94.60): VW

Ion 95.90 (95.60 to 96.60): VW

400

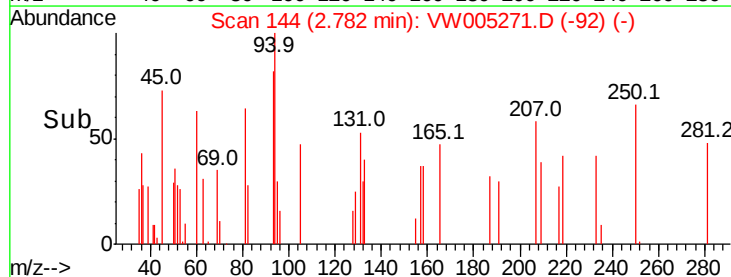
300

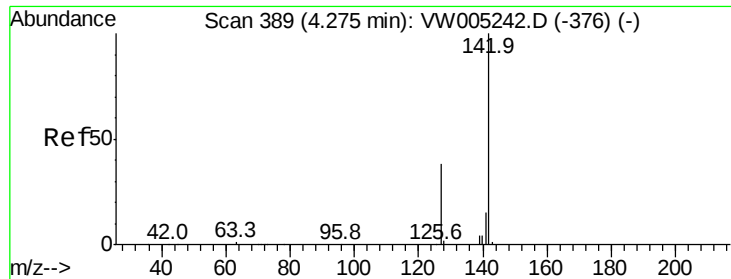
200

100

0

Time--> 2.75 2.80





#10

Methvl Iodide

Concen: 3.395 ug/l

RT: 4.28 min Scan# 390

Delta R.T. 0.01 min

Lab File: VW005271.D

Acq: 11 Sep 2018 13:20

Instrument :  
MSVOA\_W  
ClientSampled :

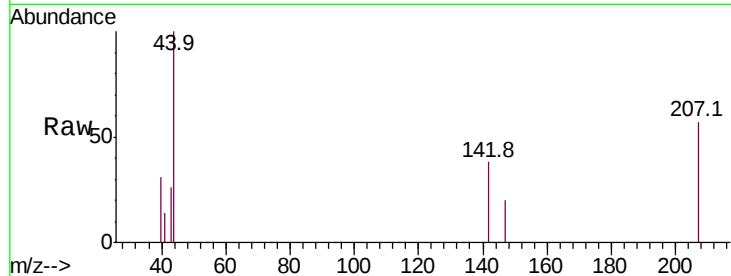
Tot Ion:142 Resp: 300

Ion Ratio Lower Upper

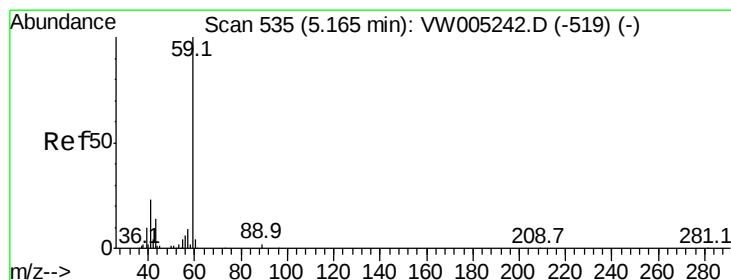
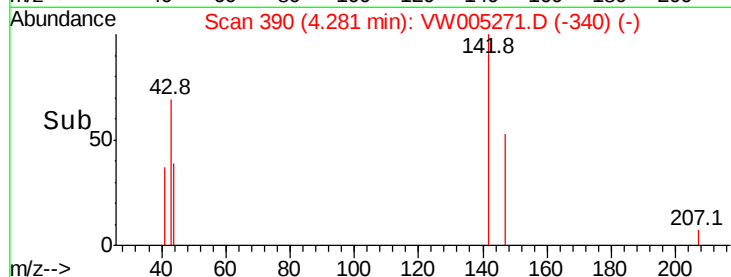
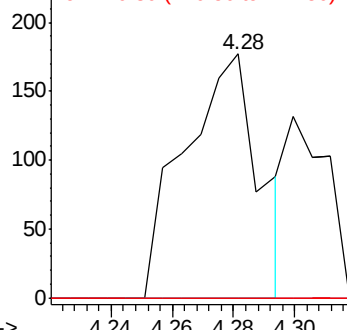
142 100

127 0.0 30.3 45.5#

141 0.0 11.4 17.0#



Abundance Ion 141.80 (141.50 to 142.50): V  
Ion 126.80 (126.50 to 127.50): V  
Ion 140.80 (140.50 to 141.50): V



#11

Tert butyl alcohol

Concen: 6.872 ug/l

RT: 5.16 min Scan# 534

Delta R.T. -0.01 min

Lab File: VW005271.D

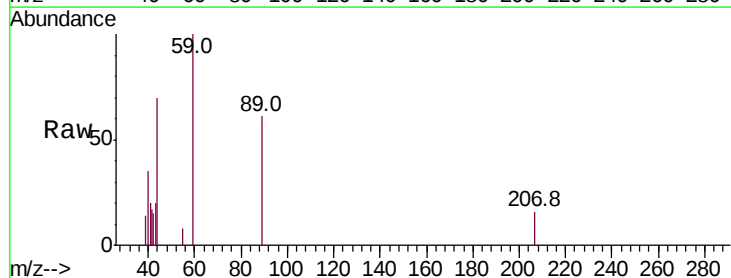
Acq: 11 Sep 2018 13:20

Tgt Ion: 59 Resp: 1624

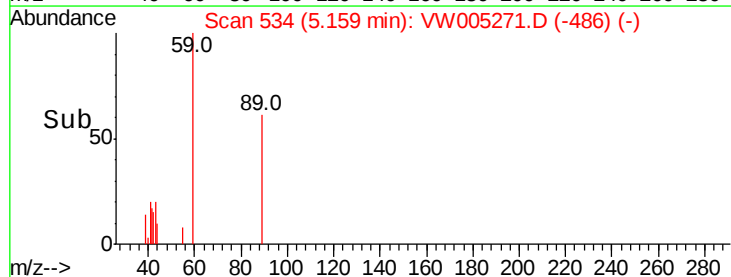
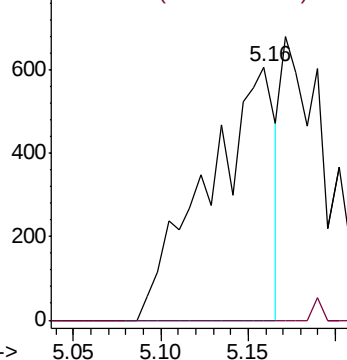
Ion Ratio Lower Upper

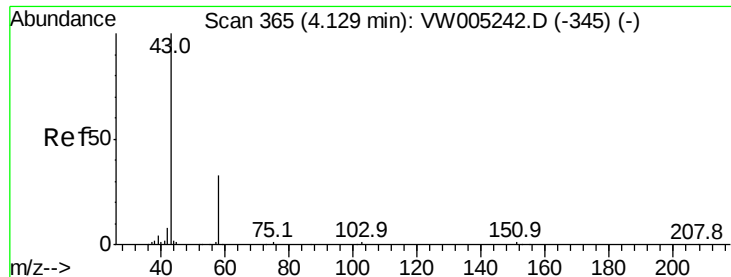
59 100

57 0.0 8.1 12.1#



Abundance Ion 59.00 (58.70 to 59.70): VW  
Ion 57.00 (56.70 to 57.70): VW

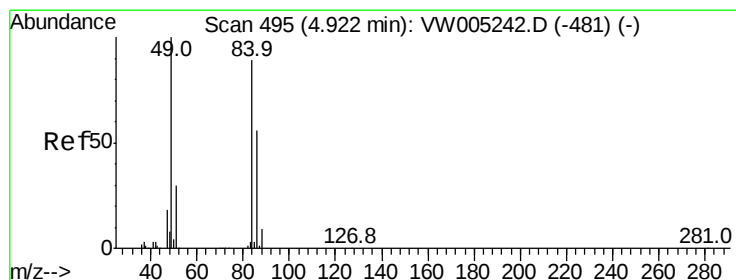
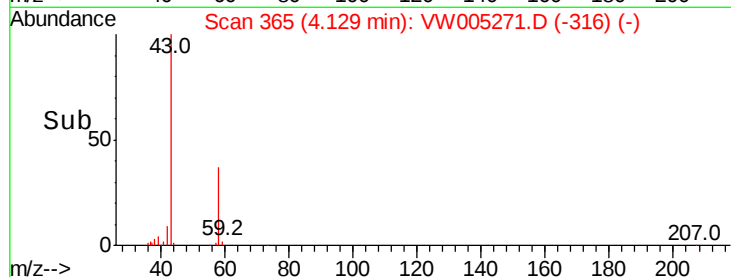
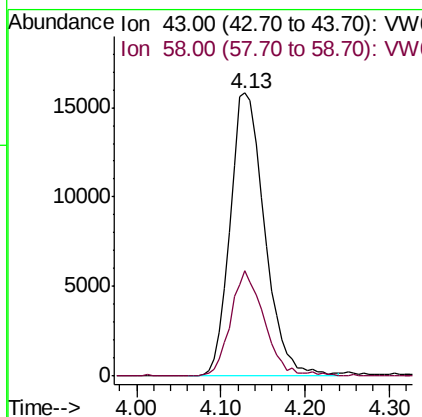
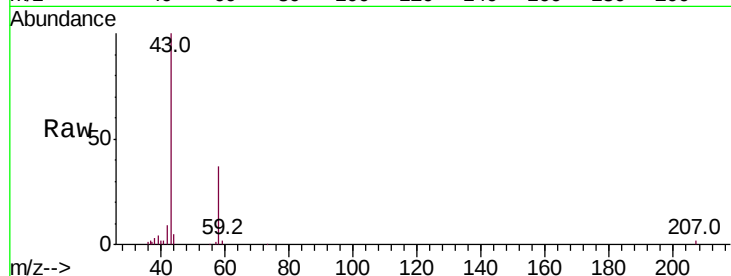




#16  
Acetone  
Concen: 82.364 ug/l  
RT: 4.13 min Scan# 365  
Delta R.T. -0.00 min  
Lab File: VW005271.D  
Acq: 11 Sep 2018 13:20

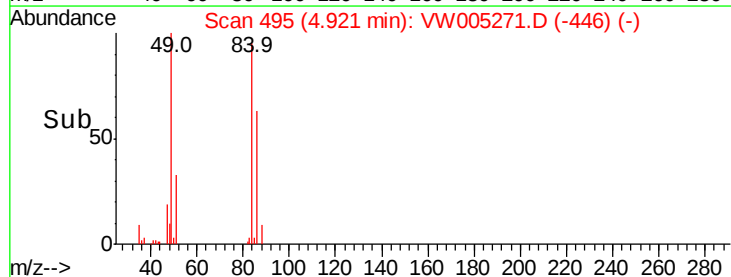
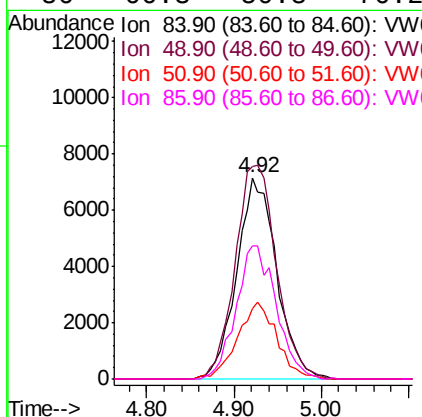
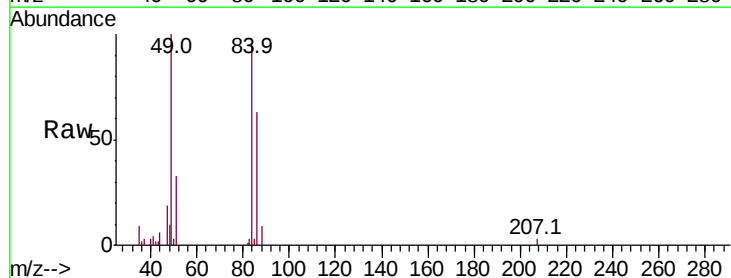
Instrument :  
MSVOA\_W  
ClientSampleId :

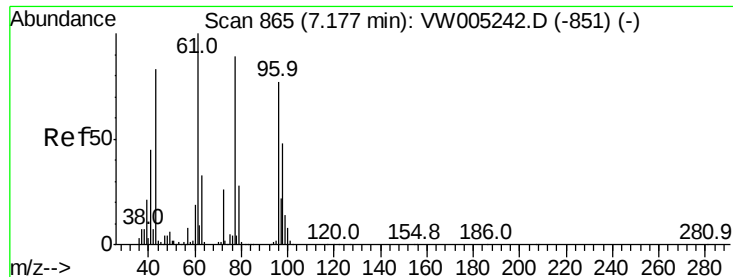
Tot Ion: 43 Resp: 44055  
Ion Ratio Lower Upper  
43 100  
58 37.2 26.7 40.1



#20  
Methylene Chloride  
Concen: 2.584 ug/l  
RT: 4.92 min Scan# 495  
Delta R.T. 0.00 min  
Lab File: VW005271.D  
Acq: 11 Sep 2018 13:20

Tgt Ion: 84 Resp: 22684  
Ion Ratio Lower Upper  
84 100  
49 105.3 90.3 135.5  
51 34.9 26.9 40.3  
86 66.3 50.8 76.2





#25

2-Butanone

Concen: 17.488 ug/l

RT: 7.18 min Scan# 866

Delta R.T. 0.01 min

Lab File: VW005271.D

Acq: 11 Sep 2018 13:20

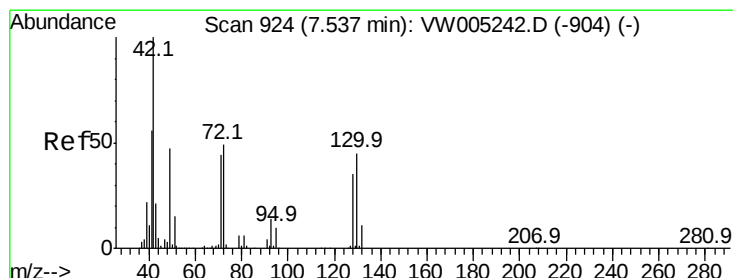
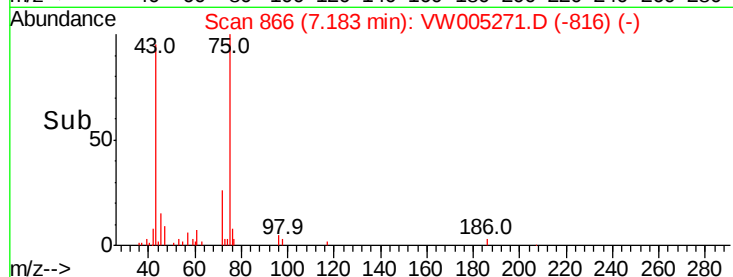
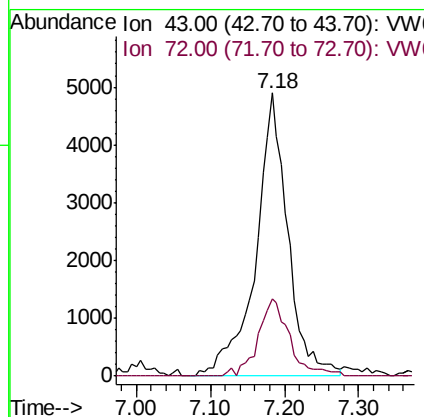
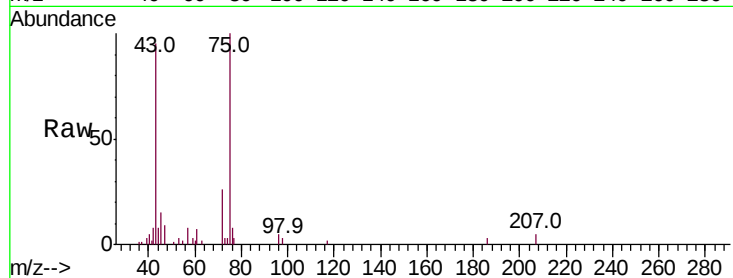
Instrument :  
MSVOA\_W  
ClientSampled :

Tot Ion: 43 Resp: 14755

Ion Ratio Lower Upper

43 100

72 27.5 25.0 37.6



#29

Tetrahydrofuran

Concen: 2.744 ug/l

RT: 7.54 min Scan# 925

Delta R.T. 0.01 min

Lab File: VW005271.D

Acq: 11 Sep 2018 13:20

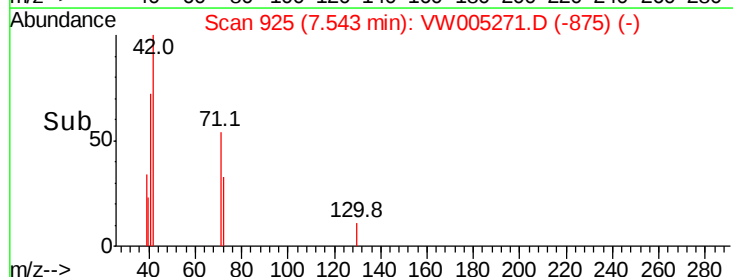
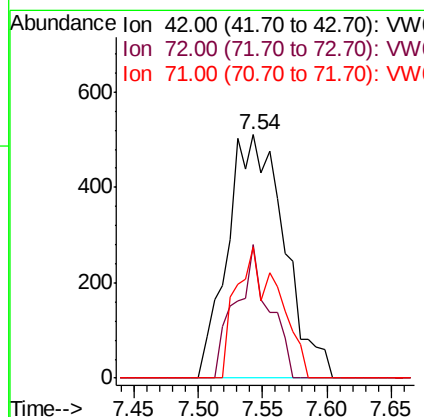
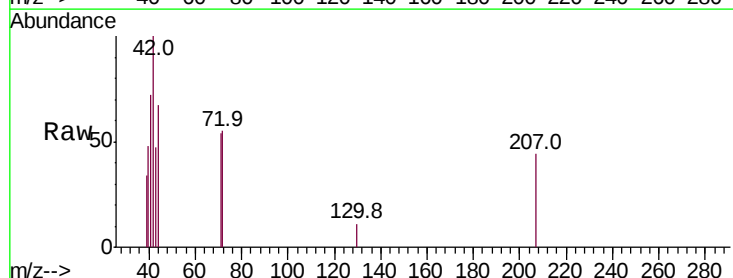
Tgt Ion: 42 Resp: 1560

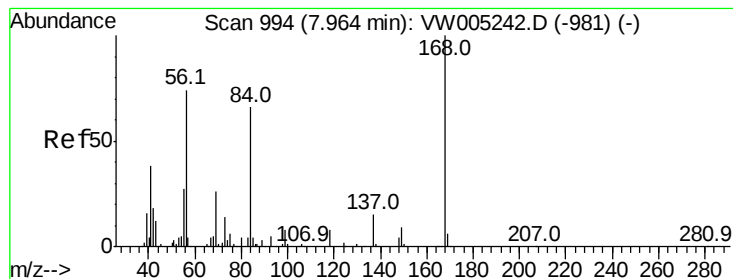
Ion Ratio Lower Upper

42 100

72 32.7 37.5 56.3#

71 40.6 34.8 52.2





#31

Cyclohexane

Concen: 1.038 ug/l

RT: 7.96 min Scan# 993

Delta R.T. -0.01 min

Lab File: VW005271.D

Acq: 11 Sep 2018 13:20

Instrument :

MSVOA\_W

ClientSampleId :

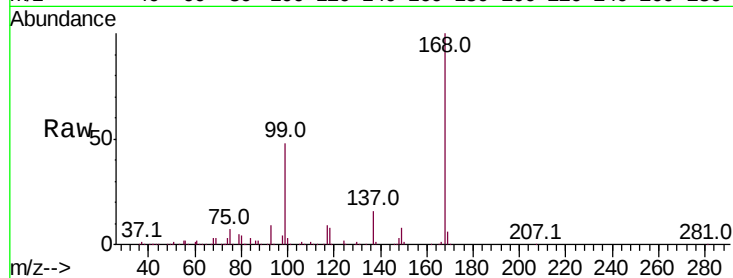
Tot Ion: 56 Resp: 6398

Ion Ratio Lower Upper

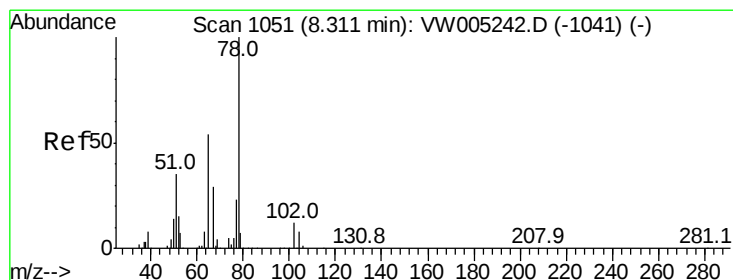
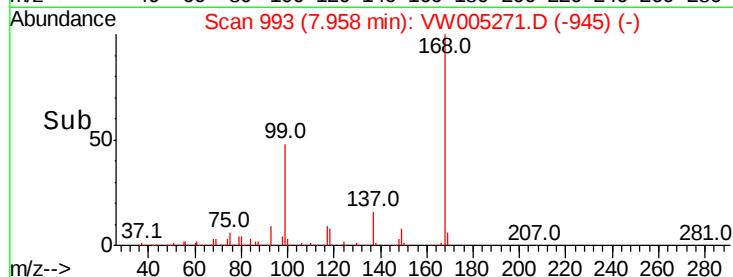
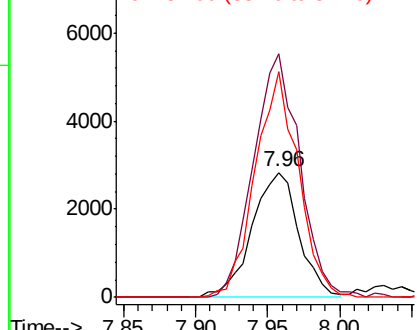
56 100

69 195.5 27.8 41.8#

84 181.4 72.1 108.1#



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: 38.812 ug/l

RT: 8.31 min Scan# 1051

Delta R.T. -0.00 min

Lab File: VW005271.D

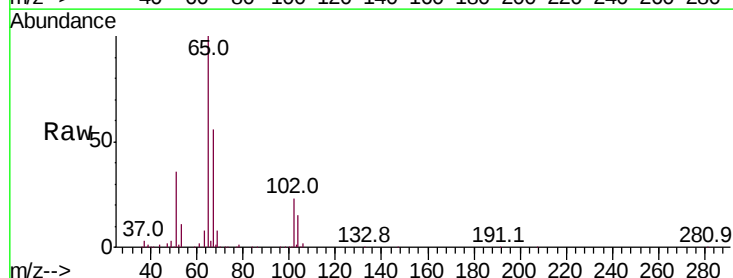
Acq: 11 Sep 2018 13:20

Tgt Ion: 65 Resp: 111842

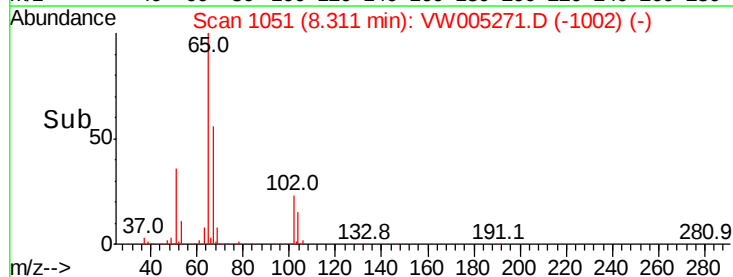
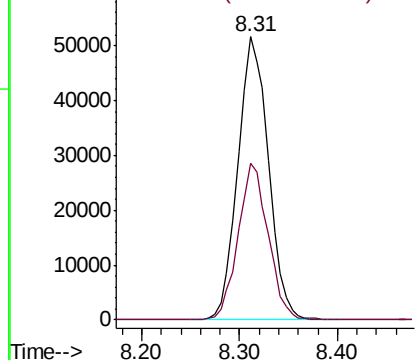
Ion Ratio Lower Upper

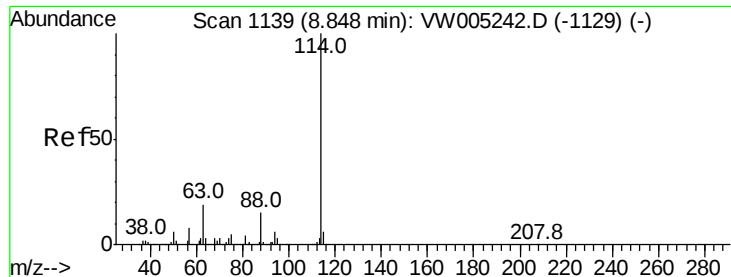
65 100

67 54.3 0.0 112.2



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

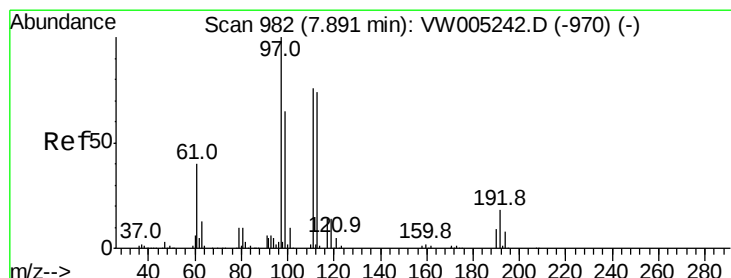
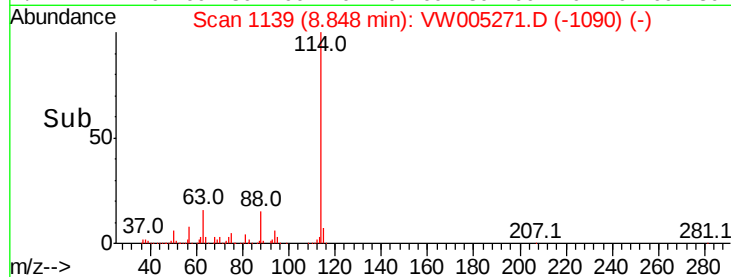
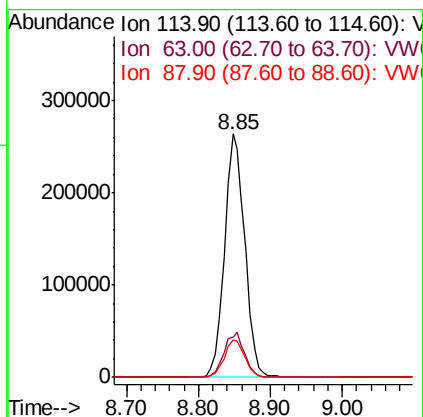
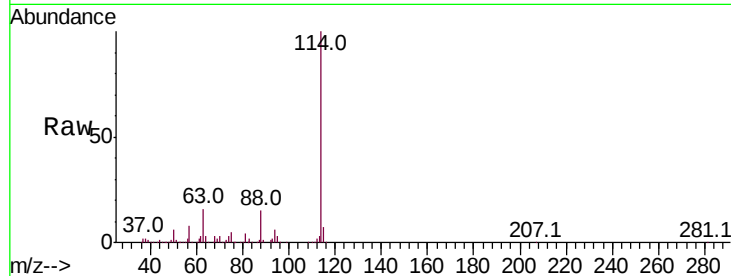




#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 8.85 min Scan# 1139  
Delta R.T. -0.00 min  
Lab File: VW005271.D  
Acq: 11 Sep 2018 13:20

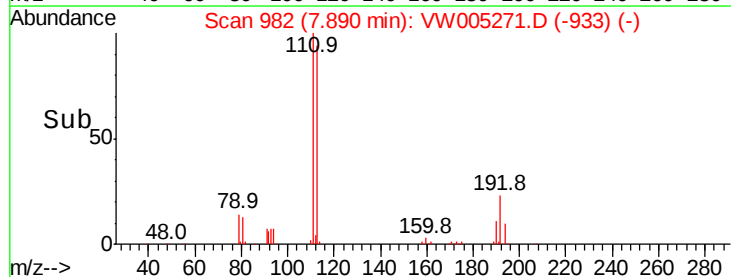
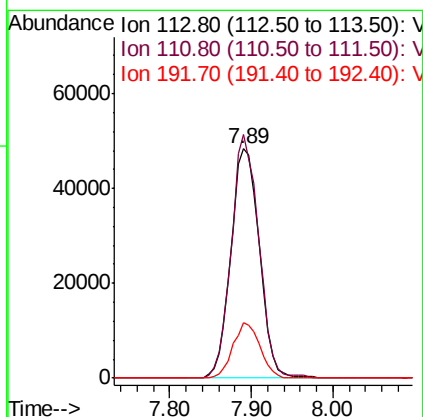
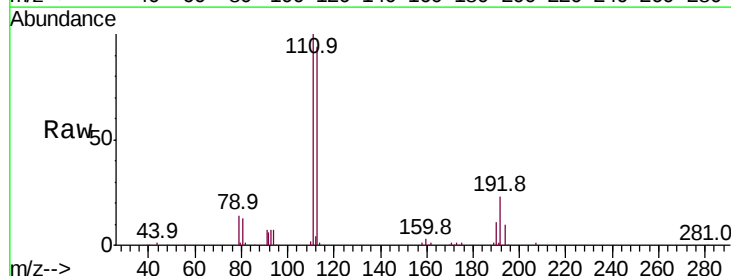
Instrument :  
MSVOA\_W  
ClientSampleId :

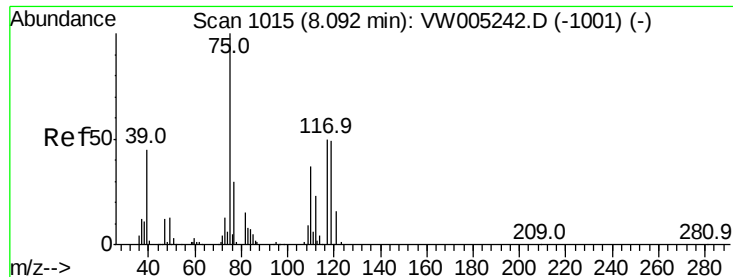
Tot Ion:114 Resp: 514684  
Ion Ratio Lower Upper  
114 100  
63 16.3 0.0 37.0  
88 15.3 0.0 30.4



#35  
Dibromofluoromethane  
Concen: 43.144 ug/l  
RT: 7.89 min Scan# 982  
Delta R.T. -0.00 min  
Lab File: VW005271.D  
Acq: 11 Sep 2018 13:20

Tgt Ion:113 Resp: 116319  
Ion Ratio Lower Upper  
113 100  
111 102.6 80.6 121.0  
192 22.9 18.3 27.5





#36

1,1-Dichloropropene

Concen: 5.281 ug/l

RT: 7.96 min Scan# 993

Delta R.T. -0.13 min

Lab File: VW005271.D

Acq: 11 Sep 2018 13:20

Instrument :

MSVOA\_W

ClientSampled :

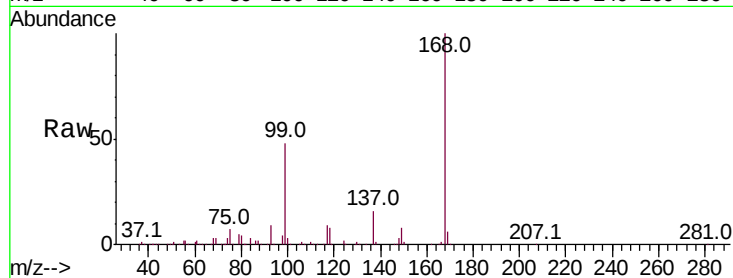
Tot Ion: 75 Resp: 24902

Ion Ratio Lower Upper

75 100

110 8.8 18.8 56.4#

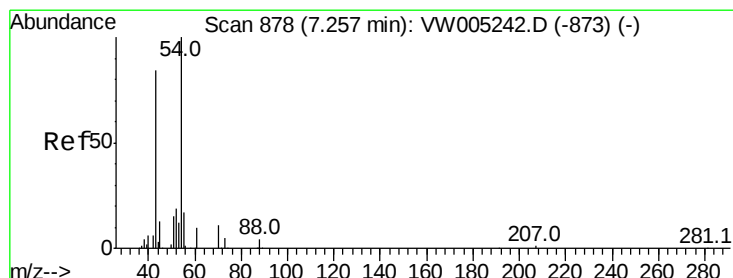
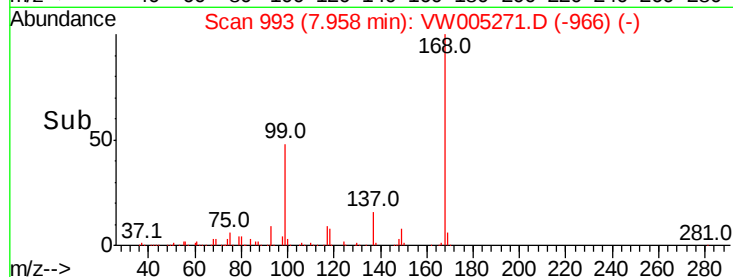
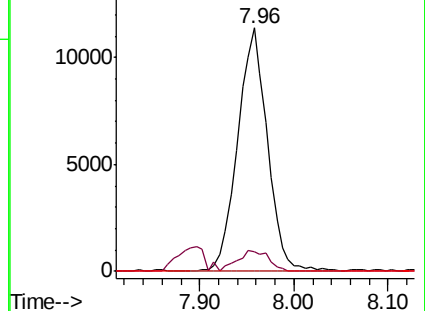
77 0.0 24.9 37.3#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 109.90 (109.60 to 110.60): VW

Ion 76.90 (76.60 to 77.60): VW



#37

Ethyl Acetate

Concen: 8.227 ug/l

RT: 7.18 min Scan# 866

Delta R.T. -0.07 min

Lab File: VW005271.D

Acq: 11 Sep 2018 13:20

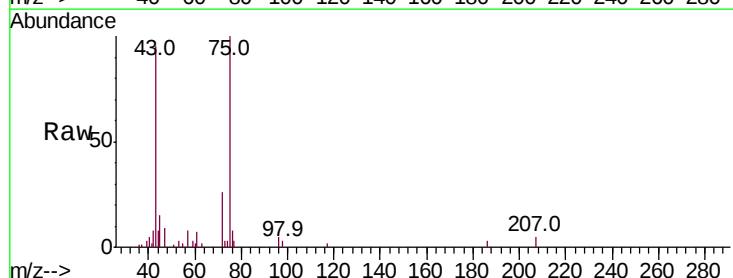
Tgt Ion: 43 Resp: 14755

Ion Ratio Lower Upper

43 100

61 0.0 12.3 18.5#

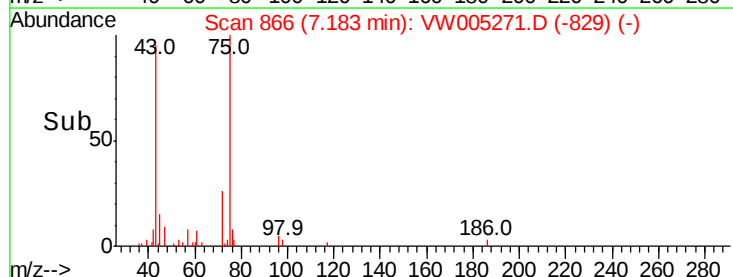
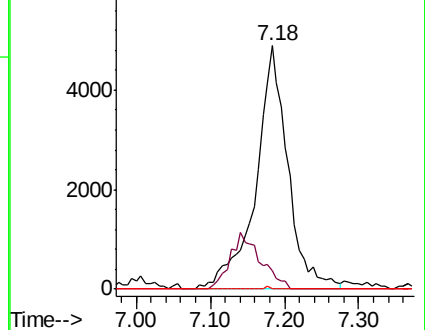
70 0.1 9.5 14.3#

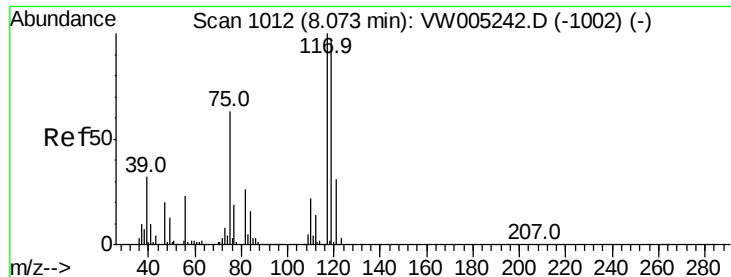


Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 60.90 (60.60 to 61.60): VW

Ion 70.00 (69.70 to 70.70): VW





#38

Carbon Tetrachloride

Concen: 7.723 ug/l

RT: 7.96 min Scan# 993

Delta R.T. -0.12 min

Lab File: VW005271.D

Acq: 11 Sep 2018 13:20

Instrument :

MSVOA\_W

ClientSampleId :

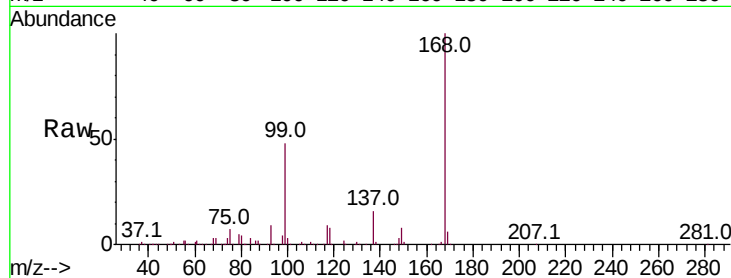
Tot Ion:117 Resp: 34112

Ion Ratio Lower Upper

117 100

119 4.8 77.5 116.3#

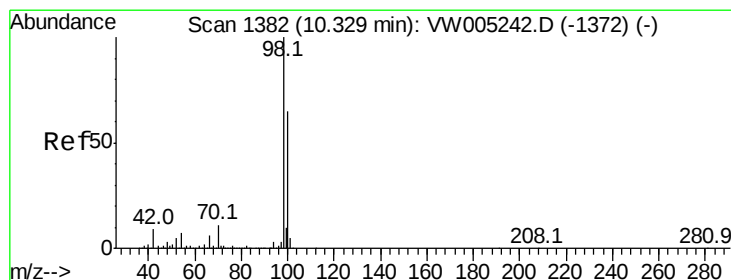
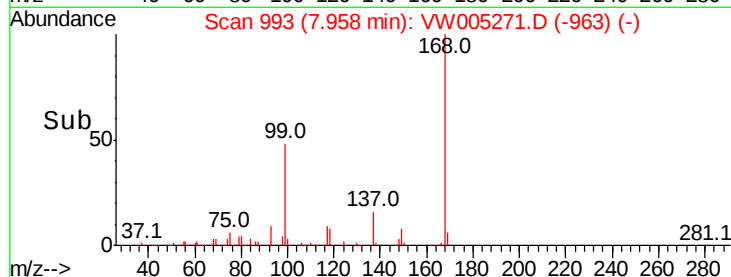
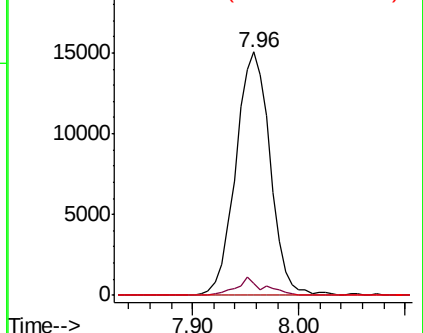
121 0.0 24.7 37.1#



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: 36.597 ug/l

RT: 10.33 min Scan# 1382

Delta R.T. -0.00 min

Lab File: VW005271.D

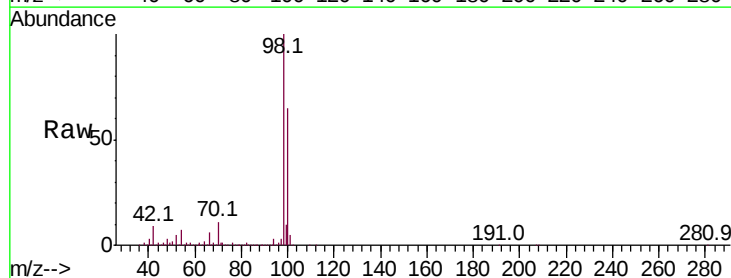
Acq: 11 Sep 2018 13:20

Tgt Ion: 98 Resp: 498591

Ion Ratio Lower Upper

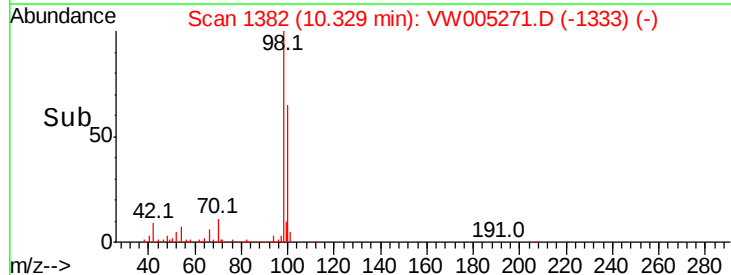
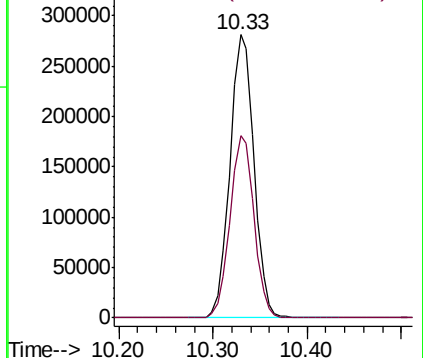
98 100

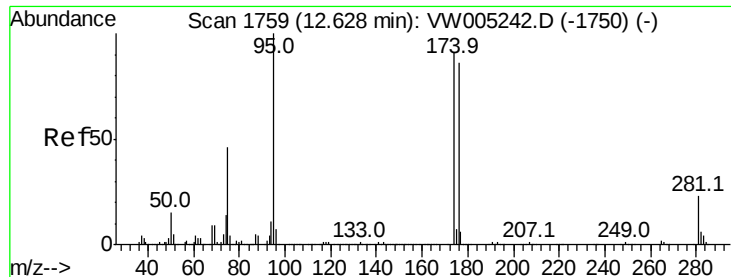
100 64.3 52.0 78.0



Abundance Ion 98.00 (97.70 to 98.70): VW

Ion 100.00 (99.70 to 100.70): VW

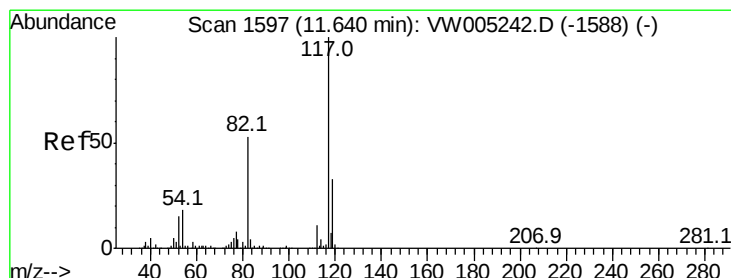
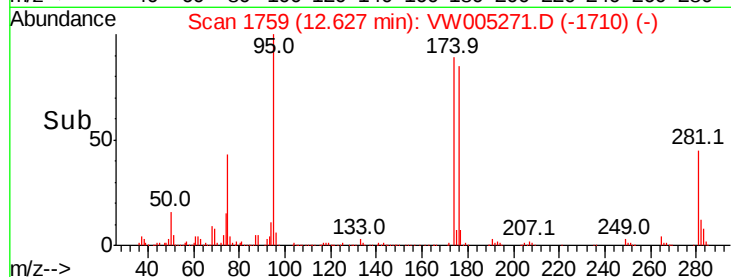
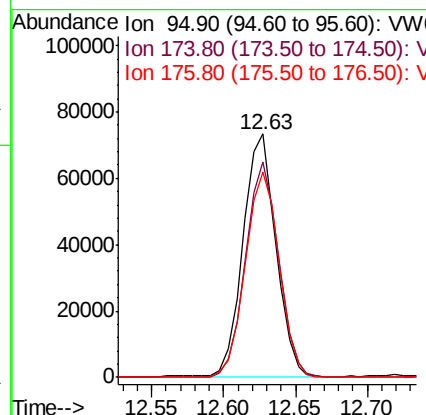
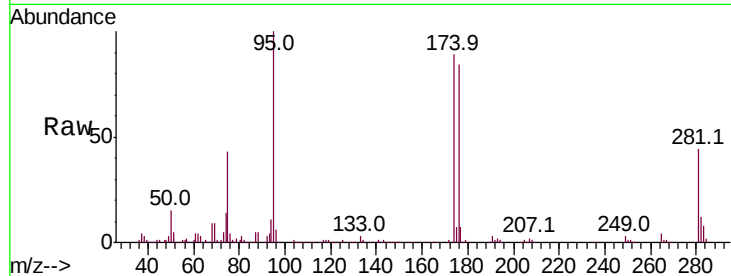




#62  
4-Bromofluorobenzene  
Concen: 23.137 ug/l  
RT: 12.63 min Scan# 1759  
Delta R.T. -0.00 min  
Lab File: VW005271.D  
Acq: 11 Sep 2018 13:20

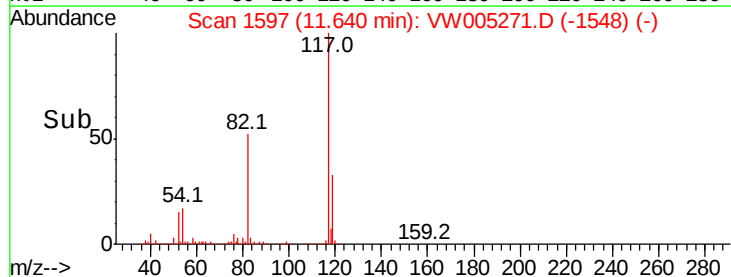
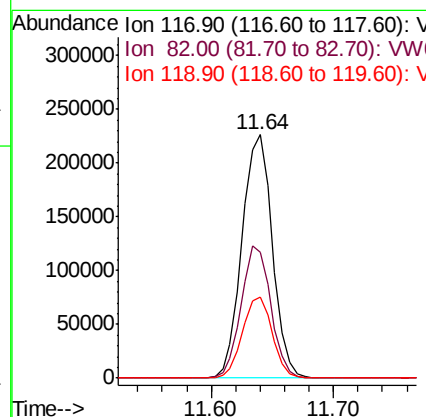
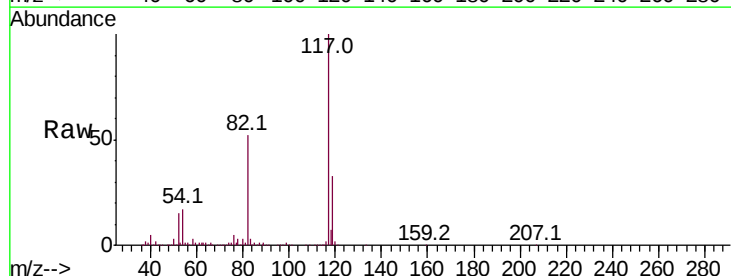
Instrument :  
MSVOA\_W  
ClientSampleId :

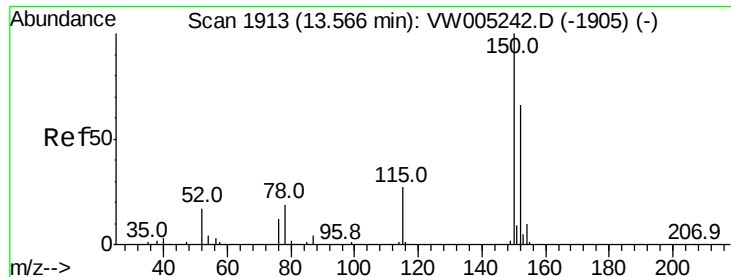
Tot Ion: 95 Resp: 115298  
Ion Ratio Lower Upper  
95 100  
174 89.5 0.0 174.6  
176 87.1 0.0 167.6



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.64 min Scan# 1597  
Delta R.T. -0.00 min  
Lab File: VW005271.D  
Acq: 11 Sep 2018 13:20

Tgt Ion: 117 Resp: 389266  
Ion Ratio Lower Upper  
117 100  
82 51.7 42.6 63.8  
119 33.5 26.2 39.4





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.57 min Scan# 1913

Delta R.T. -0.00 min

Lab File: VW005271.D

Acq: 11 Sep 2018 13:20

Instrument :

MSVOA\_W

ClientSampleId :

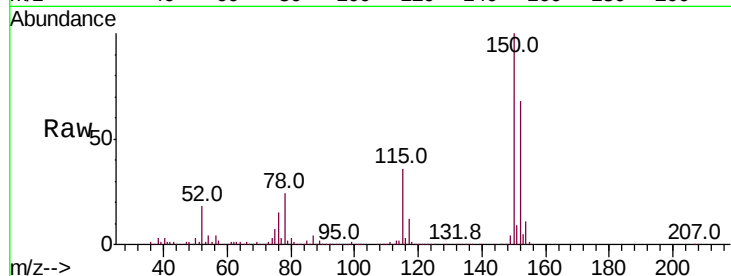
Tot Ion:152 Resp: 120343

Ion Ratio Lower Upper

152 100

115 53.9 27.5 82.4

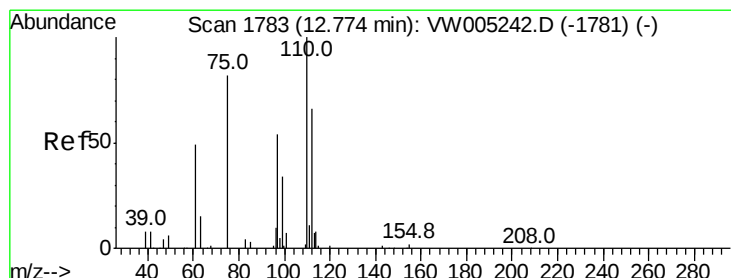
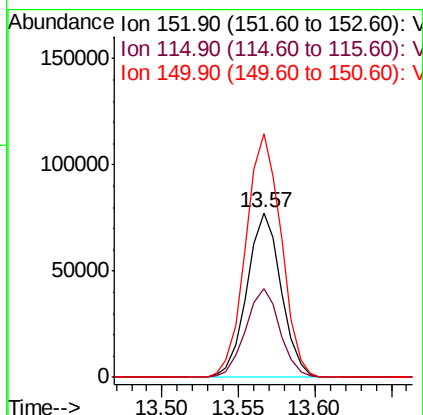
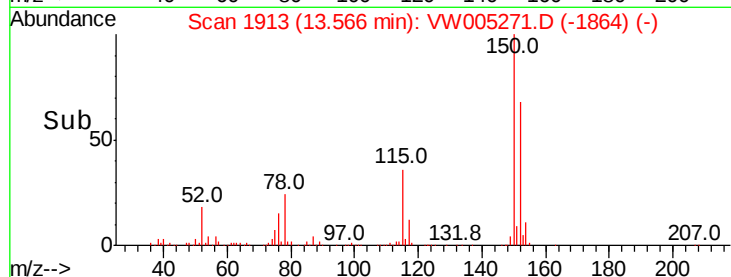
150 153.6 0.0 347.4



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



#76

1,2,3-Trichloropropane

Concen: 58.098 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.15 min

Lab File: VW005271.D

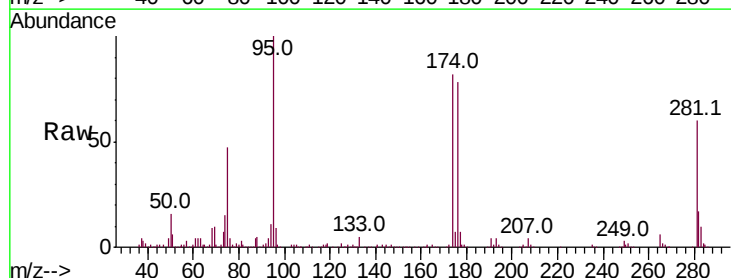
Acq: 11 Sep 2018 13:20

Tgt Ion: 75 Resp: 53777

Ion Ratio Lower Upper

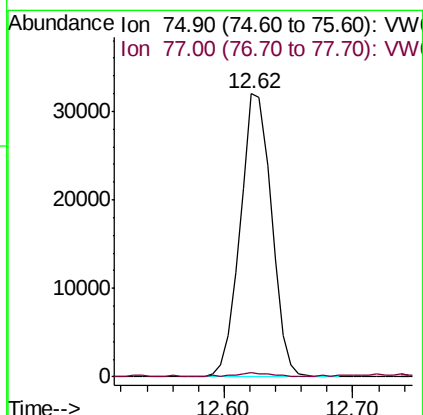
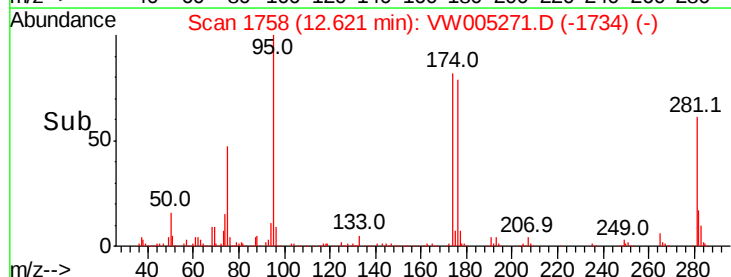
75 100

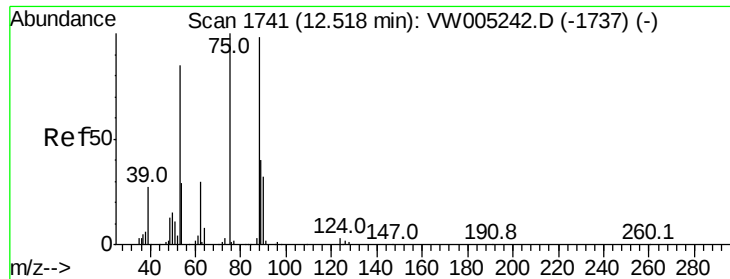
77 1.4 0.0 0.0#



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: 136.254 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.10 min

Lab File: VW005271.D

Acq: 11 Sep 2018 13:20

Instrument :

MSVOA\_W

ClientSampleId :

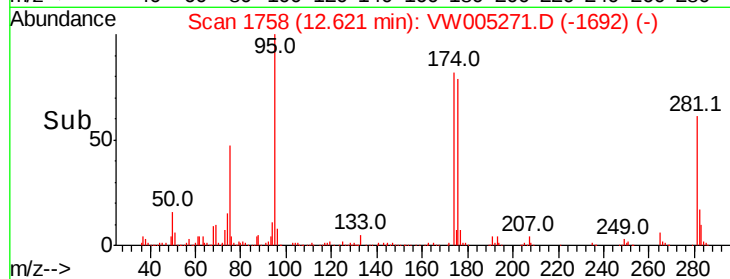
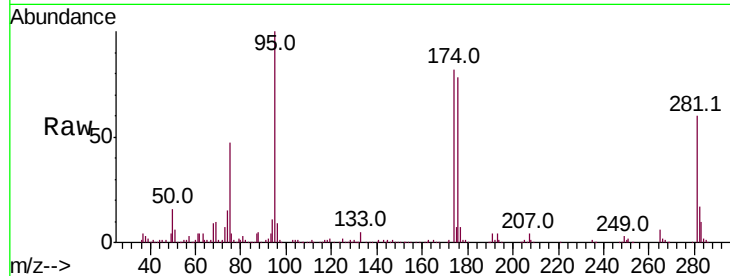
Tot Ion: 75 Resp: 53777

Ion Ratio Lower Upper

75 100

53 0.0 67.0 100.6#

89 0.6 37.0 55.4#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 53.00 (52.70 to 53.70): VW

Ion 88.90 (88.60 to 89.60): VW

