

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW121618\  
 Data File : VW007509.D  
 Acq On : 14 Dec 2018 02:24  
 Operator : SY/AP  
 Sample : J6340-01RE  
 Misc : 4.30G/5ML/MSVOA W/SOIL  
 ALS Vial : 32 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 SB-02ARE

Quant Time: Dec 14 04:31:29 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W121118S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Dec 11 02:58:16 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.95  | 168  | 76415    | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.84  | 114  | 135464   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 91319    | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 19617    | 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   | 34323    | 40.49 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 80.98% |          |
| 35) Dibromofluoromethane    | 7.88  | 113  | 32707    | 39.89 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 79.78% |          |
| 50) Toluene-d8              | 10.32 | 98   | 95732    | 31.14 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 62.28% |          |
| 62) 4-Bromofluorobenzene    | 12.62 | 95   | 22568    | 19.96 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 39.92% |          |

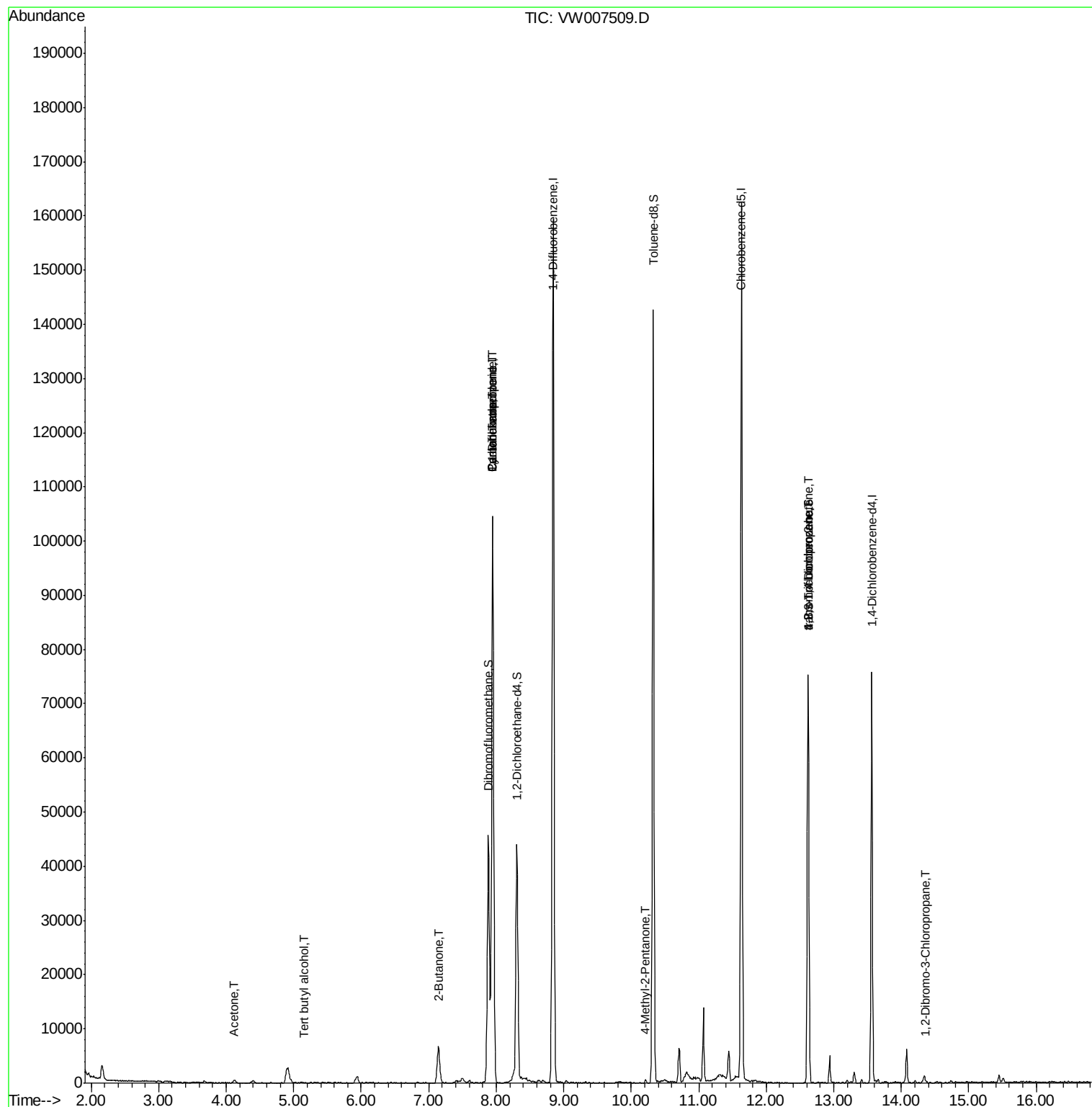
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 11) Tert butyl alcohol         | 5.15  | 59   | 91       | 1.563     | ug/l # | 74     |
| 16) Acetone                    | 4.12  | 43   | 952      | 6.429     | ug/l   | 97     |
| 20) Methylene Chloride         | 4.92  | 84   | 2835     | Below Cal |        | 88     |
| 25) 2-Butanone                 | 7.15  | 43   | 317      | 1.640     | ug/l # | 45     |
| 31) Cyclohexane                | 7.95  | 56   | 1455     | 1.105     | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 7.95  | 75   | 5815     | 4.706     | ug/l # | 51     |
| 38) Carbon Tetrachloride       | 7.95  | 117  | 7936     | 5.902     | ug/l # | 16     |
| 51) 4-Methyl-2-Pentanone       | 10.21 | 43   | 446      | 1.040     | ug/l   | 93     |
| 76) 1,2,3-Trichloropropane     | 12.62 | 75   | 11549    | 71.401    | ug/l # | 1      |
| 81) trans-1,4-Dichloro-2-buten | 12.62 | 75   | 11549    | 157.726   | ug/l # | 7      |
| 92) 1,2-Dibromo-3-Chloropropan | 14.37 | 75   | 76       | 1.701     | ug/l # | 3      |

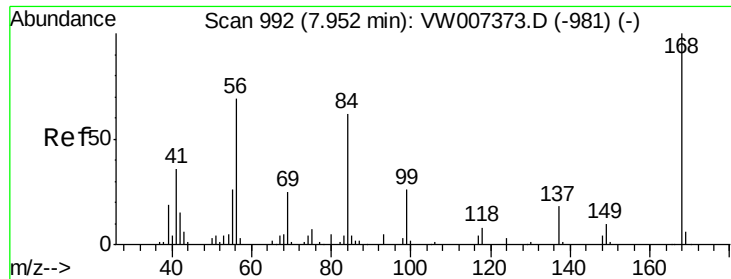
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW121618\  
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Quant Time: Dec 14 04:31:29 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W121118S.M  
Quant Title : SW846 8260  
QLast Update : Tue Dec 11 02:58:16 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.01 min

Lab File: VW007509.D

Acq: 14 Dec 2018 02:24

Instrument :

MSVOA\_W

ClientSampleId :

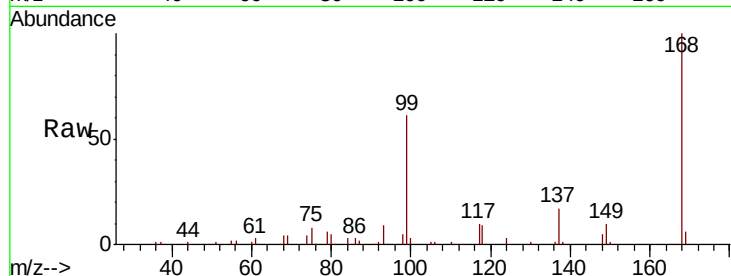
SB-02ARE

Tot Ion:168 Resp: 76415

Ion Ratio Lower Upper

168 100

99 61.0 48.3 72.5



Abundance Ion 167.90 (167.60 to 168.60): VW

Ion 98.90 (98.60 to 99.60): VW

7.95

40000

30000

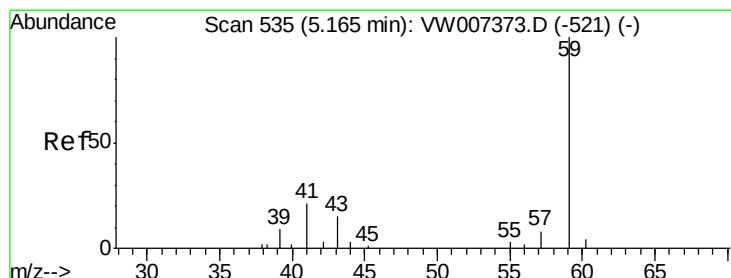
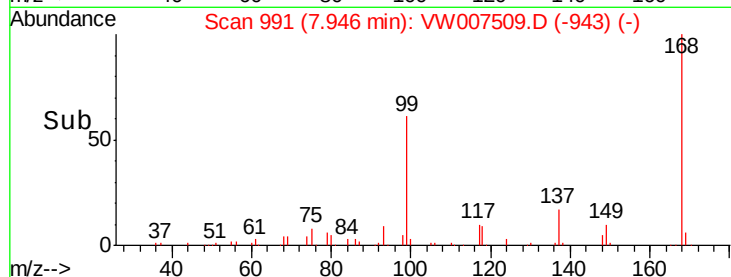
20000

10000

0

Time-->

7.85 7.90 7.95 8.00 8.05



#11

Tert butyl alcohol

Concen: 1.563 ug/l

RT: 5.15 min Scan# 533

Delta R.T. -0.01 min

Lab File: VW007509.D

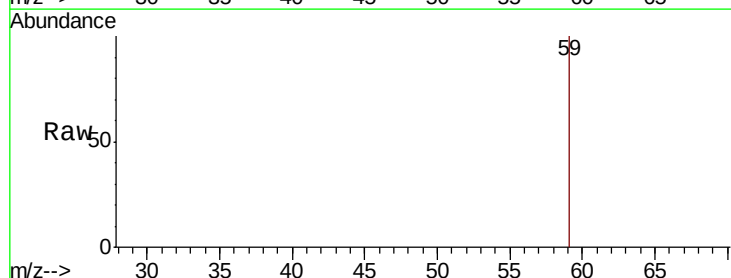
Acq: 14 Dec 2018 02:24

Tgt Ion: 59 Resp: 91

Ion Ratio Lower Upper

59 100

57 0.0 7.6 11.4#



Abundance Ion 59.00 (58.70 to 59.70): VW

Ion 57.00 (56.70 to 57.70): VW

5.15

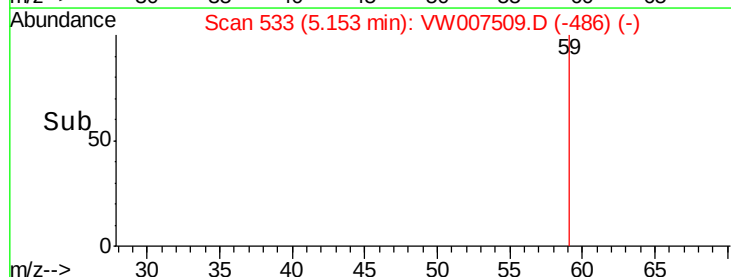
100

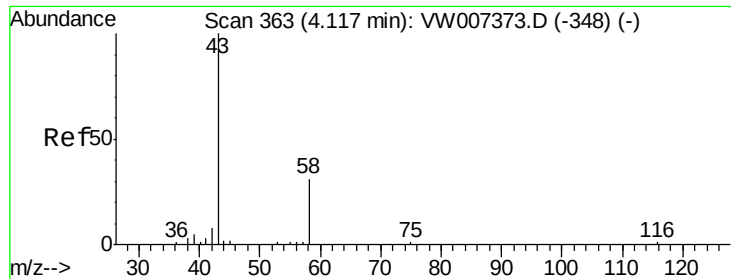
50

0

Time-->

5.12 5.14 5.16





#16

Acetone

Concen: 6.429 ug/l

RT: 4.12 min Scan# 363

Delta R.T. 0.00 min

Lab File: VW007509.D

Acq: 14 Dec 2018 02:24

Instrument :

MSVOA\_W

ClientSampleId :

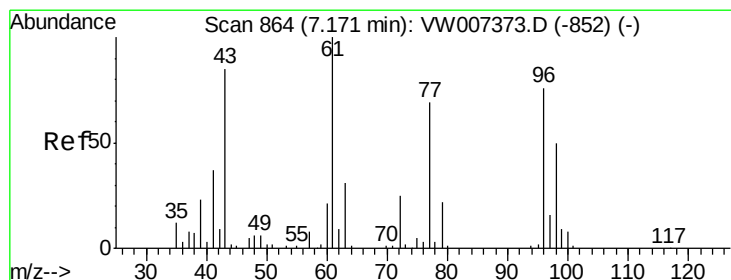
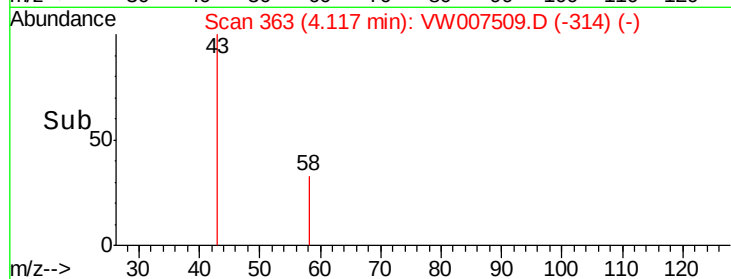
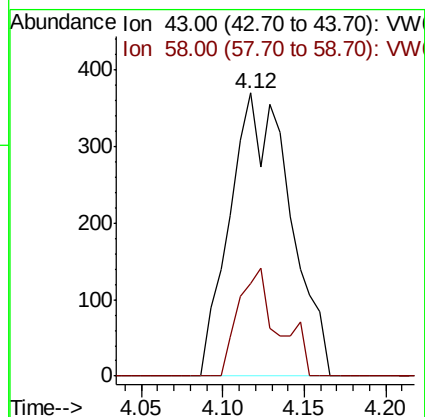
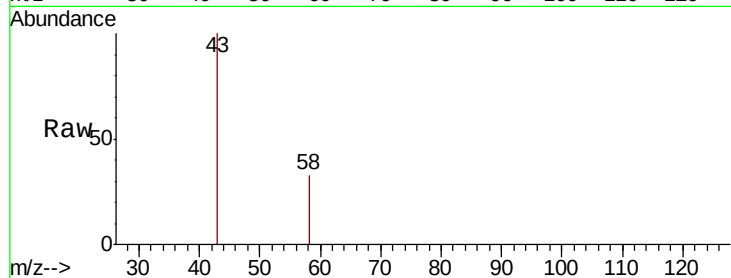
SB-02ARE

Tot Ion: 43 Resp: 952

Ion Ratio Lower Upper

43 100

58 32.7 24.9 37.3



#25

2-Butanone

Concen: 1.640 ug/l

RT: 7.15 min Scan# 860

Delta R.T. -0.02 min

Lab File: VW007509.D

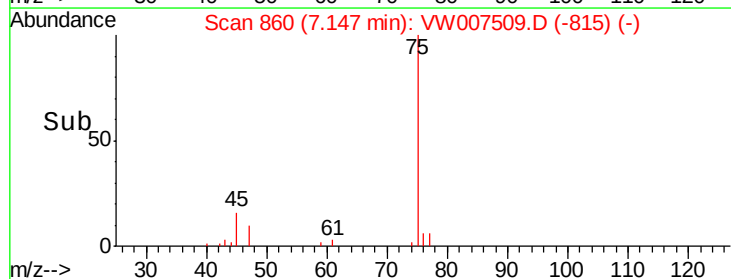
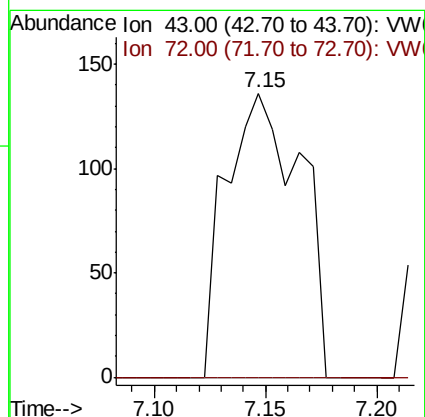
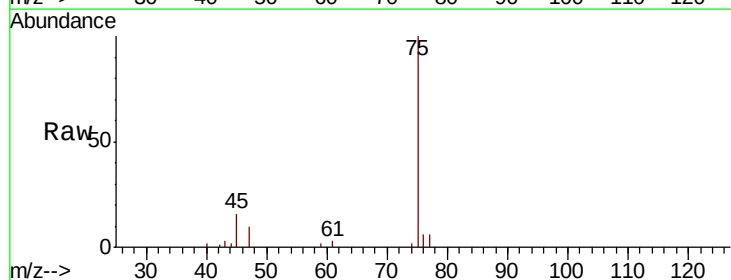
Acq: 14 Dec 2018 02:24

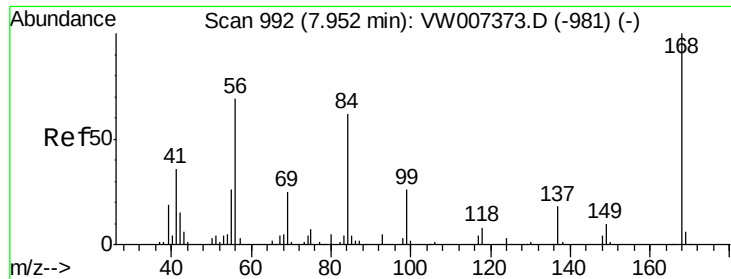
Tgt Ion: 43 Resp: 317

Ion Ratio Lower Upper

43 100

72 0.0 23.4 35.2#

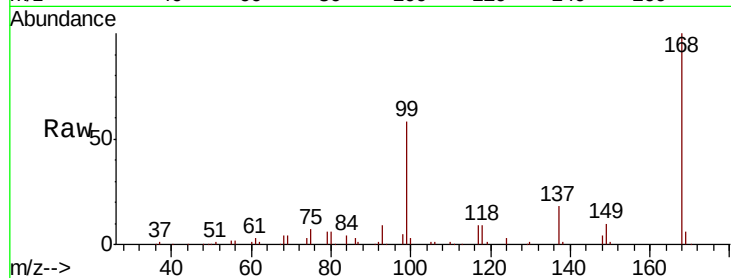




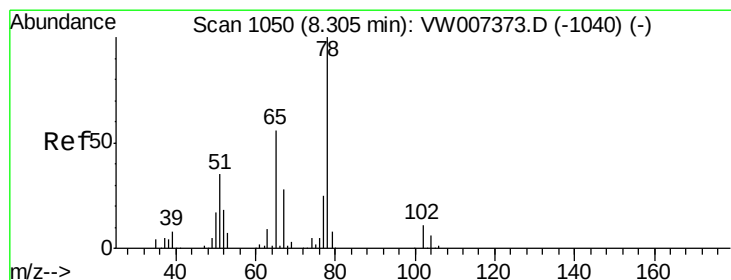
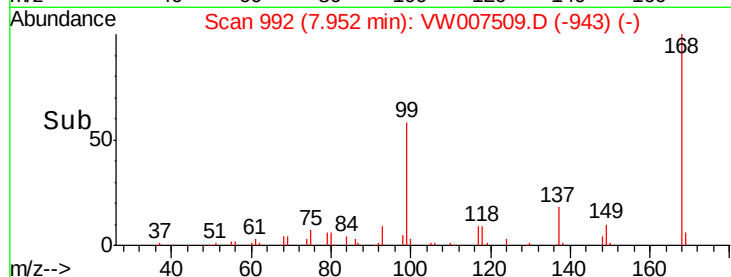
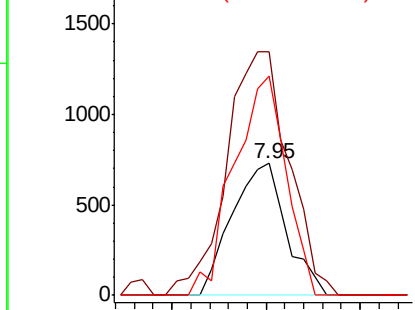
#31  
Cyclohexane  
Concen: 1.105 ug/l  
RT: 7.95 min Scan# 992  
Delta R.T. 0.00 min  
Lab File: VW007509.D  
Acq: 14 Dec 2018 02:24

Instrument :  
MSVOA\_W  
ClientSampleId :  
SB-02ARE

Tot Ion: 56 Resp: 1455  
Ion Ratio Lower Upper  
56 100  
69 184.6 28.9 43.3#  
84 166.3 71.8 107.6#

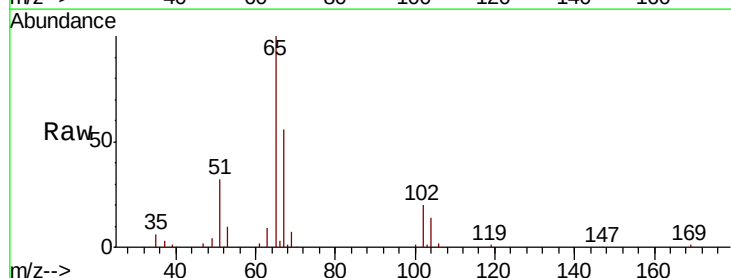


Abundance Ion 56.00 (55.70 to 56.70): VW  
Ion 69.00 (68.70 to 69.70): VW  
Ion 84.00 (83.70 to 84.70): VW

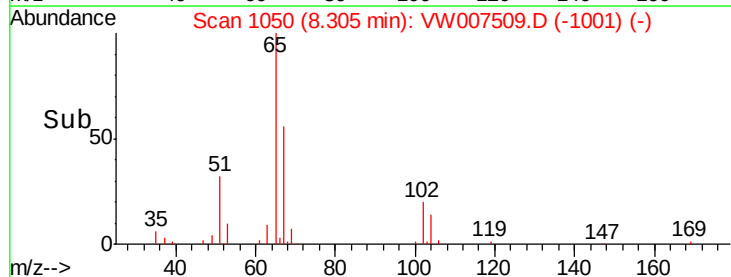
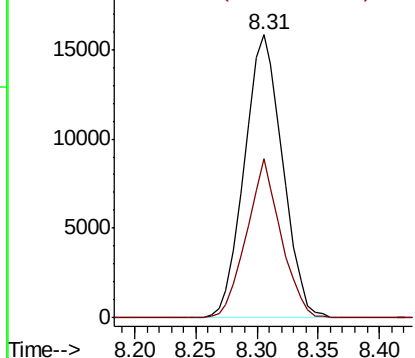


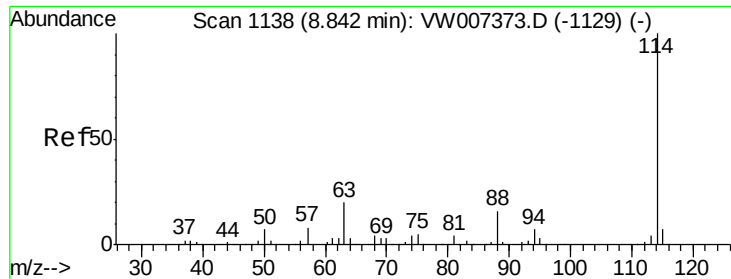
#33  
1,2-Dichloroethane-d4  
Concen: 40.487 ug/l  
RT: 8.31 min Scan# 1050  
Delta R.T. 0.00 min  
Lab File: VW007509.D  
Acq: 14 Dec 2018 02:24

Tgt Ion: 65 Resp: 34323  
Ion Ratio Lower Upper  
65 100  
67 50.7 0.0 101.6



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

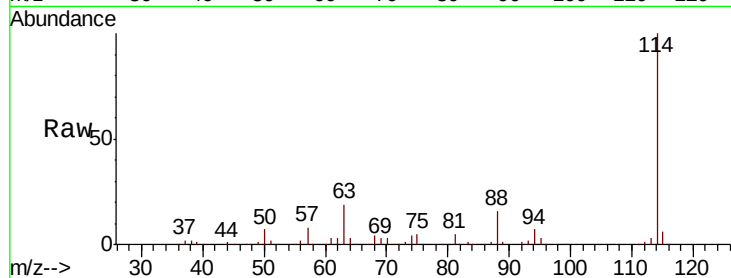




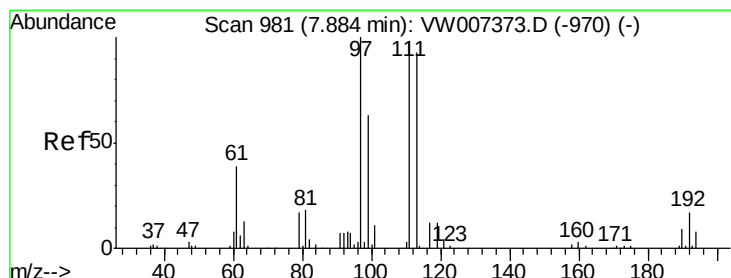
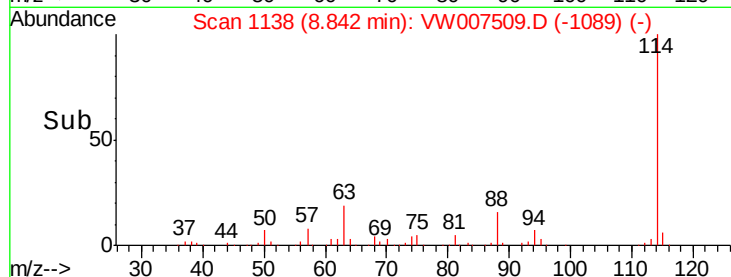
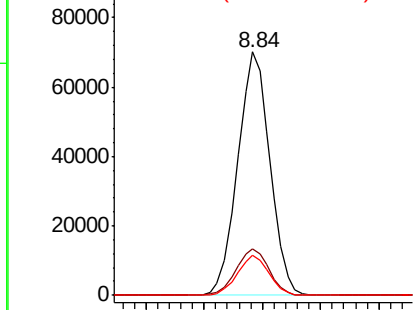
#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 8.84 min Scan# 1138  
Delta R.T. 0.00 min  
Lab File: VW007509.D  
Acq: 14 Dec 2018 02:24

Instrument :  
MSVOA\_W  
ClientSampleId :  
SB-02ARE

Tot Ion:114 Resp: 135464  
Ion Ratio Lower Upper  
114 100  
63 18.9 0.0 39.6  
88 16.5 0.0 31.4

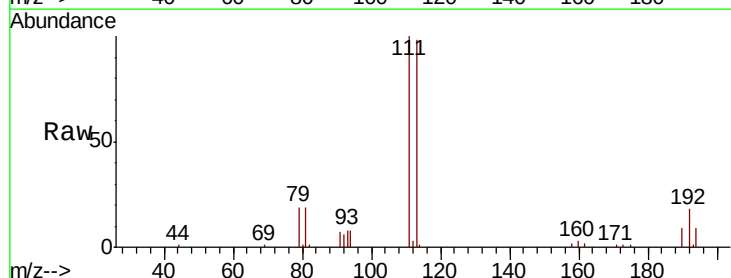


Abundance Ion 113.90 (113.60 to 114.60): V  
Ion 63.00 (62.70 to 63.70): VW  
Ion 87.90 (87.60 to 88.60): VW

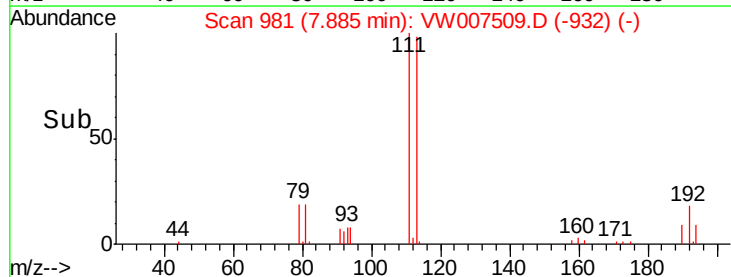
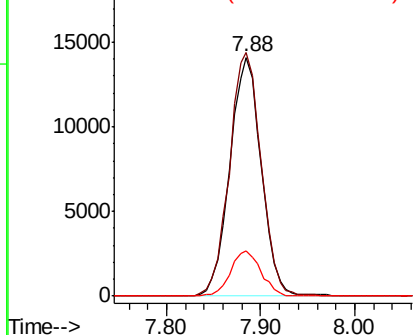


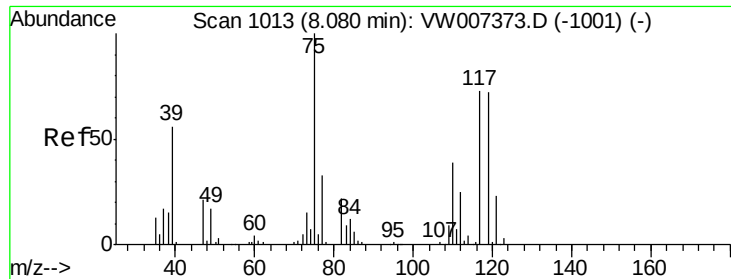
#35  
Dibromofluoromethane  
Concen: 39.886 ug/l  
RT: 7.88 min Scan# 981  
Delta R.T. 0.00 min  
Lab File: VW007509.D  
Acq: 14 Dec 2018 02:24

Tgt Ion:113 Resp: 32707  
Ion Ratio Lower Upper  
113 100  
111 102.9 81.1 121.7  
192 18.4 14.6 21.8



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

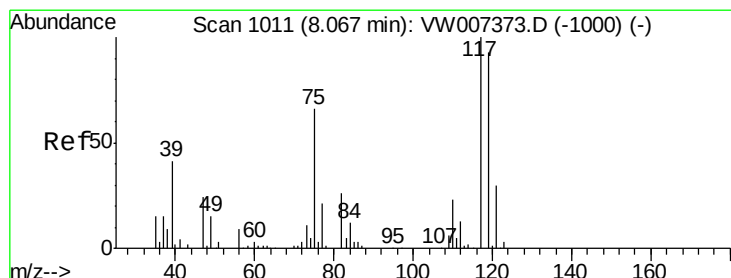
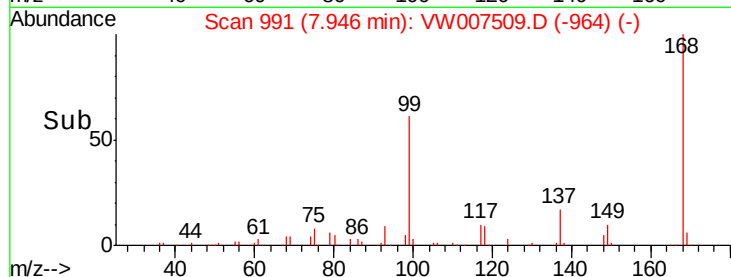
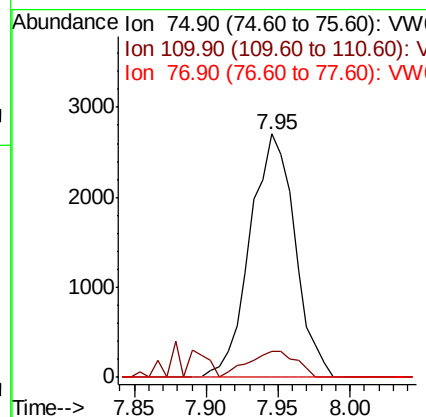
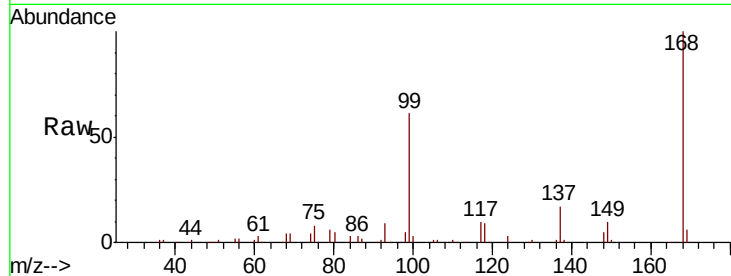




#36  
 1,1-Dichloropropene  
 Concen: 4.706 ug/l  
 RT: 7.95 min Scan# 991  
 Delta R.T. -0.13 min  
 Lab File: VW007509.D  
 Acq: 14 Dec 2018 02:24

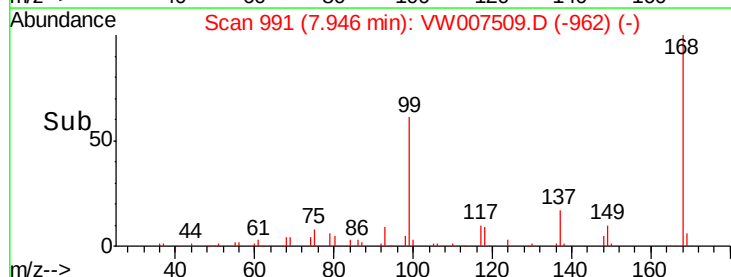
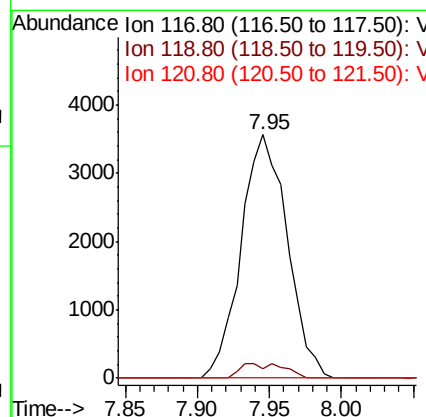
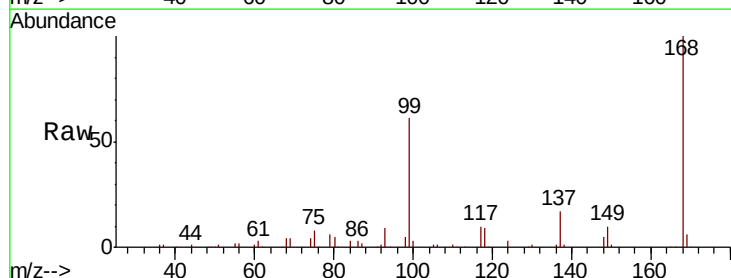
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 SB-02ARE

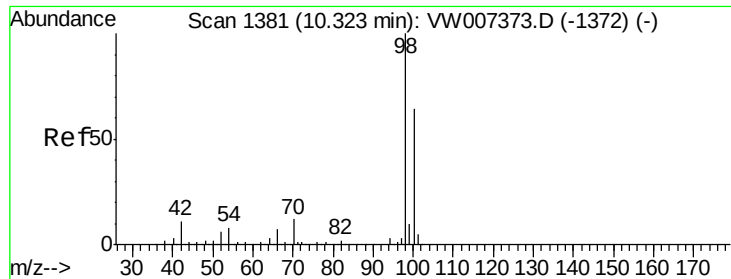
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 11.9  | 18.5  | 55.5# |
| 77      | 0.0   | 25.6  | 38.4# |



#38  
 Carbon Tetrachloride  
 Concen: 5.902 ug/l  
 RT: 7.95 min Scan# 991  
 Delta R.T. -0.12 min  
 Lab File: VW007509.D  
 Acq: 14 Dec 2018 02:24

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 117     | 100   |       |        |
| 119     | 4.1   | 74.3  | 111.5# |
| 121     | 0.0   | 24.3  | 36.5#  |





#50

Toluene-d8

Concen: 31.136 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. 0.00 min

Lab File: VW007509.D

Acq: 14 Dec 2018 02:24

Instrument :

MSVOA\_W

ClientSampled :

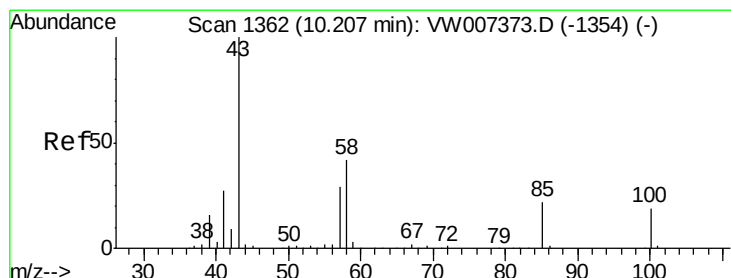
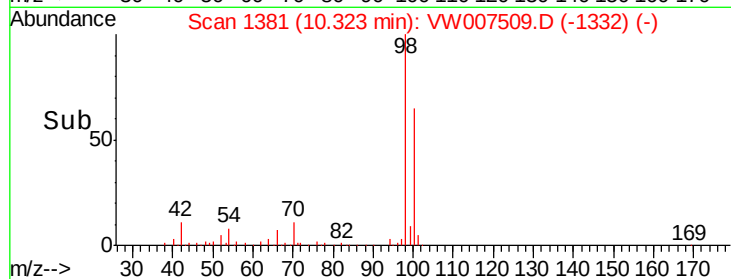
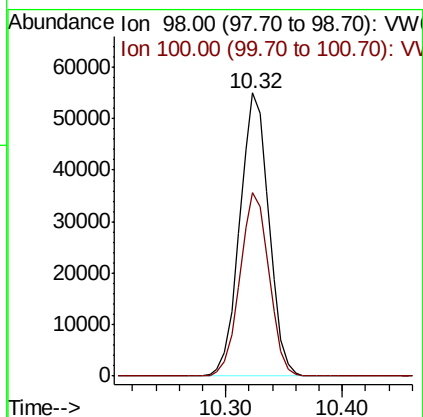
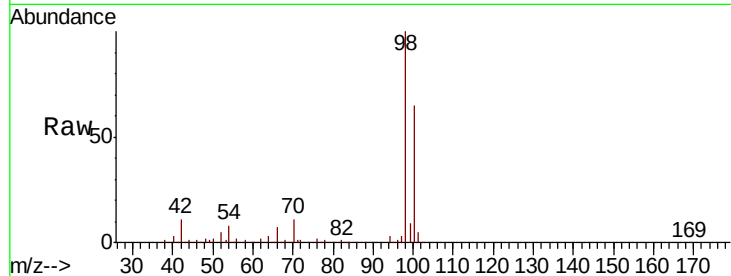
SB-02ARE

Tot Ion: 98 Resp: 95732

Ion Ratio Lower Upper

98 100

100 64.8 51.8 77.8



#51

4-Methyl-2-Pentanone

Concen: 1.040 ug/l

RT: 10.21 min Scan# 1363

Delta R.T. 0.01 min

Lab File: VW007509.D

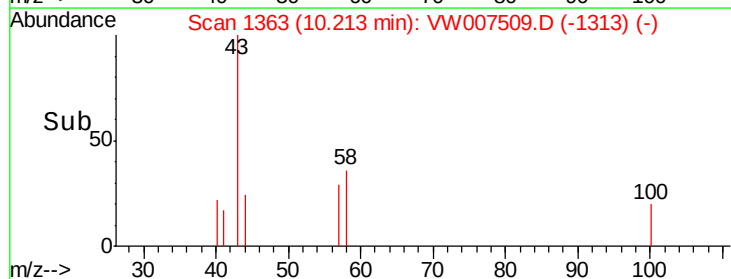
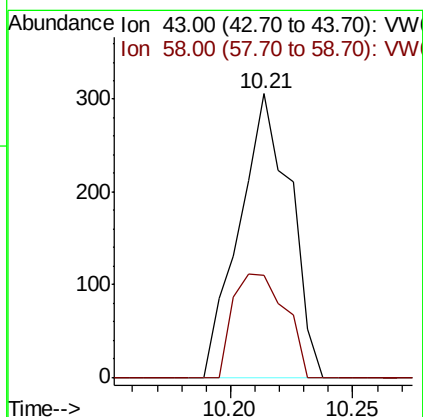
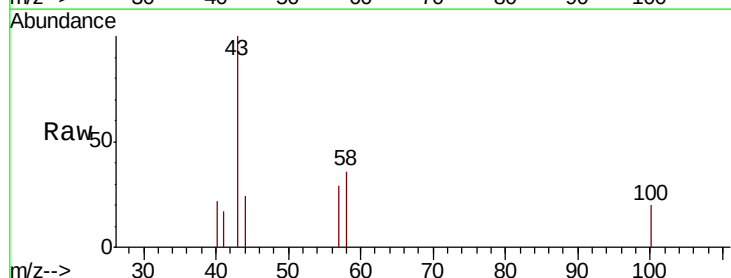
Acq: 14 Dec 2018 02:24

Tgt Ion: 43 Resp: 446

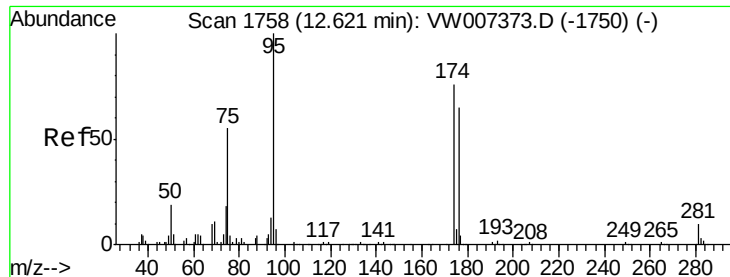
Ion Ratio Lower Upper

43 100

58 37.2 33.1 49.7



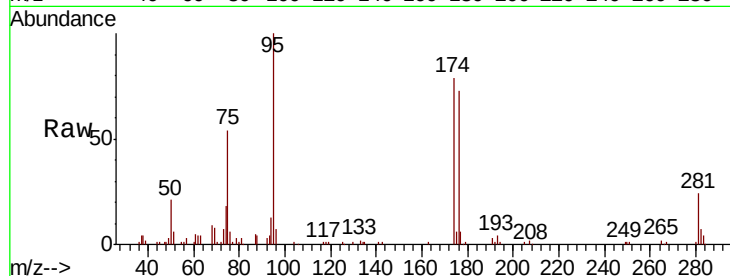




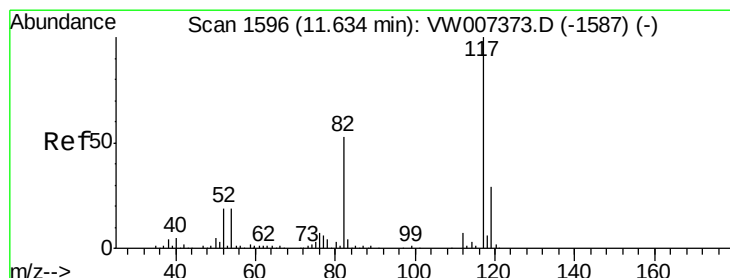
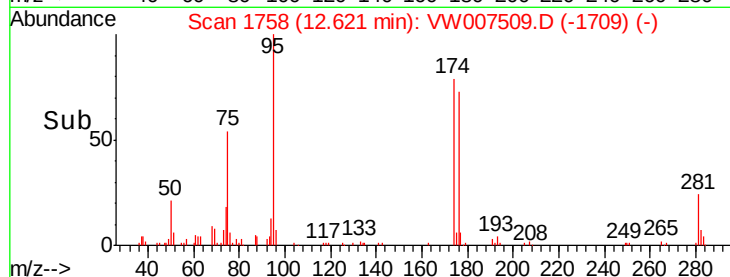
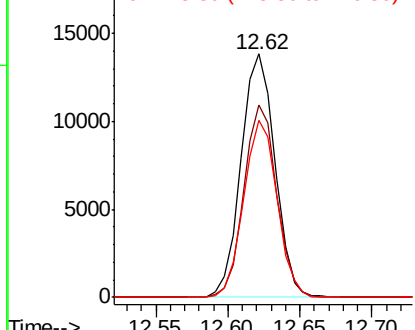
#62  
4-Bromofluorobenzene  
Concen: 19.964 ug/l  
RT: 12.62 min Scan# 1758  
Delta R.T. 0.00 min  
Lab File: VW007509.D  
Acq: 14 Dec 2018 02:24

Instrument :  
MSVOA\_W  
ClientSampleId :  
SB-02ARE

Tot Ion: 95 Resp: 22568  
Ion Ratio Lower Upper  
95 100  
174 76.2 0.0 147.2  
176 71.2 0.0 138.8

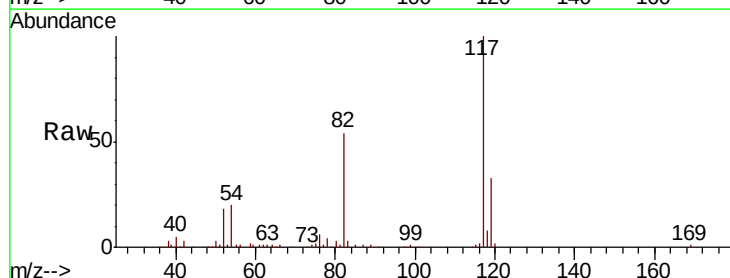


Abundance Ion 94.90 (94.60 to 95.60): VW  
Ion 173.80 (173.50 to 174.50): VW  
Ion 175.80 (175.50 to 176.50): VW

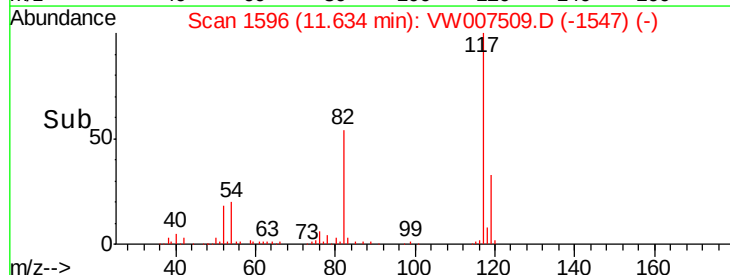
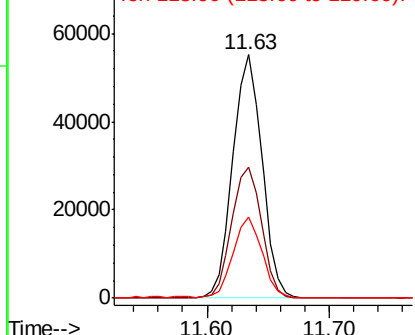


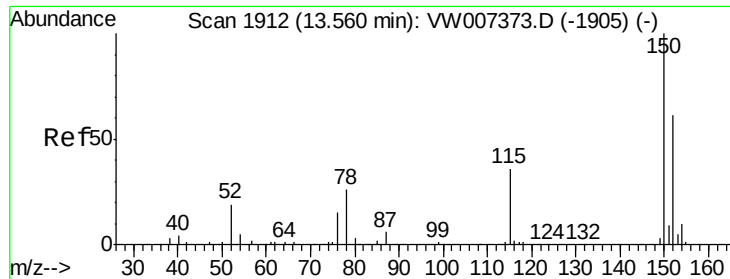
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.63 min Scan# 1596  
Delta R.T. 0.00 min  
Lab File: VW007509.D  
Acq: 14 Dec 2018 02:24

Tgt Ion: 117 Resp: 91319  
Ion Ratio Lower Upper  
117 100  
82 54.0 42.3 63.5  
119 33.0 23.0 34.6



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

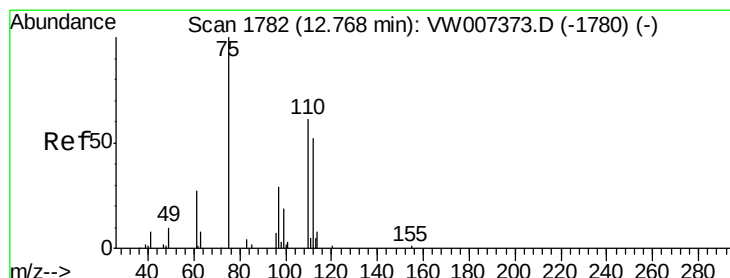
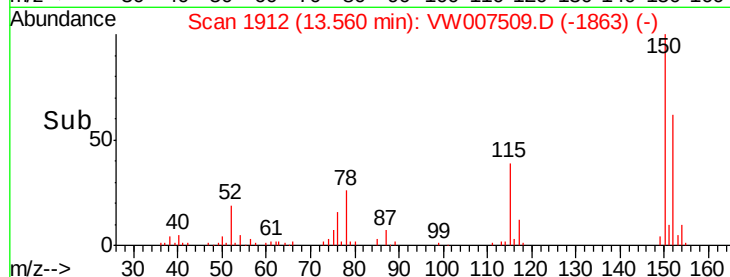
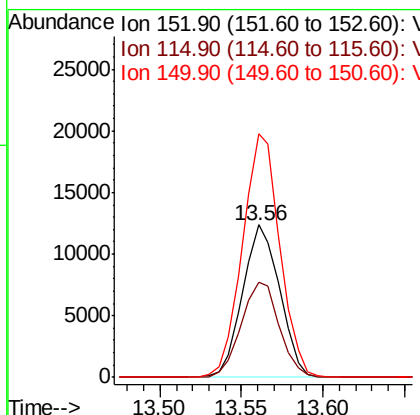
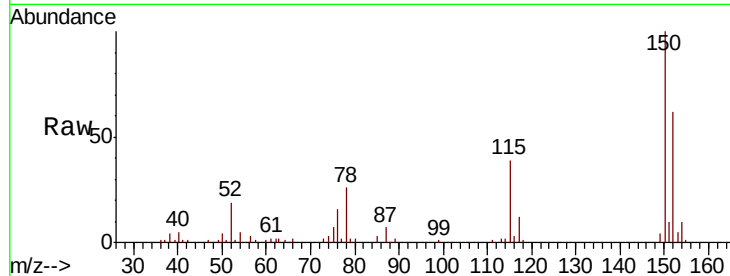




#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.000 ug/l  
 RT: 13.56 min Scan# 1912  
 Delta R.T. 0.00 min  
 Lab File: VW007509.D  
 Acq: 14 Dec 2018 02:24

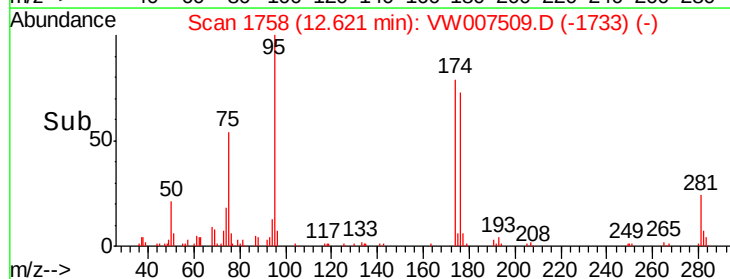
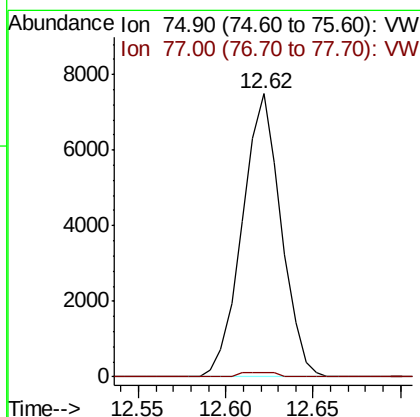
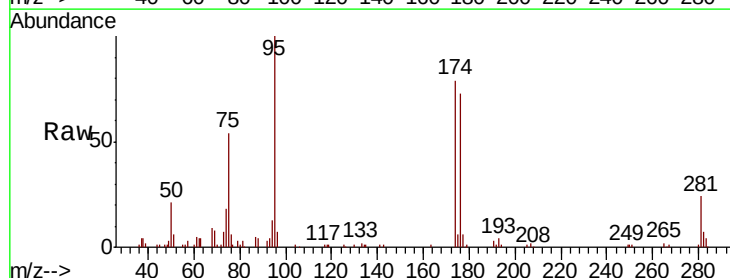
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 SB-02ARE

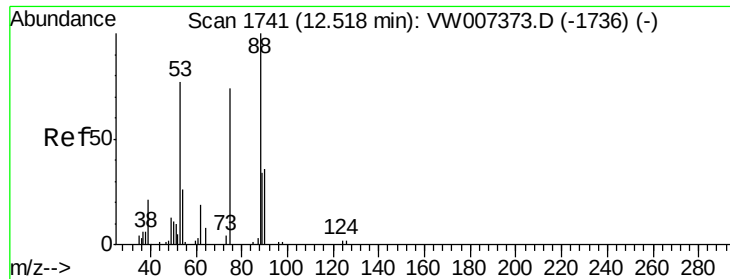
Tot Ion:152 Resp: 19617  
 Ion Ratio Lower Upper  
 152 100  
 115 64.2 31.4 94.2  
 150 160.2 0.0 358.4



#76  
 1,2,3-Trichloropropane  
 Concen: 71.401 ug/l  
 RT: 12.62 min Scan# 1758  
 Delta R.T. -0.15 min  
 Lab File: VW007509.D  
 Acq: 14 Dec 2018 02:24

Tgt Ion: 75 Resp: 11549  
 Ion Ratio Lower Upper  
 75 100  
 77 1.4 166.9 500.8#





#81

trans-1,4-Dichloro-2-butene

Concen: 157.726 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.10 min

Lab File: VW007509.D

Acq: 14 Dec 2018 02:24

Instrument :

MSVOA\_W

ClientSampleId :

SB-02ARE

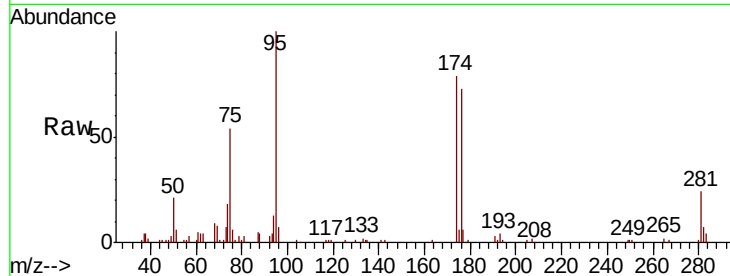
Tot Ion: 75 Resp: 11549

Ion Ratio Lower Upper

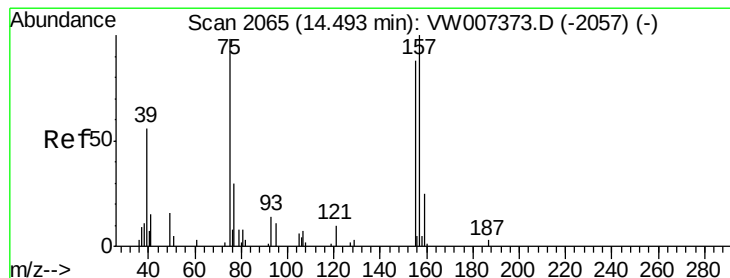
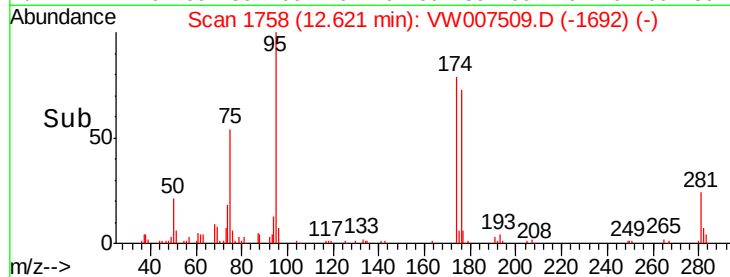
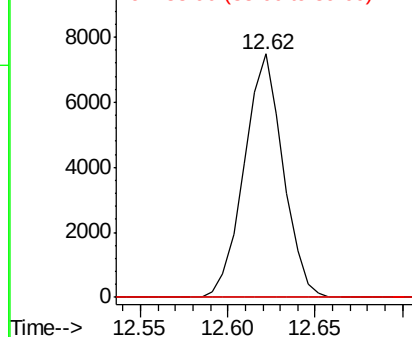
75 100

53 0.0 84.9 127.3#

89 0.0 40.3 60.5#



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



#92

1,2-Dibromo-3-Chloropropane

Concen: 1.701 ug/l

RT: 14.37 min Scan# 2044

Delta R.T. -0.13 min

Lab File: VW007509.D

Acq: 14 Dec 2018 02:24

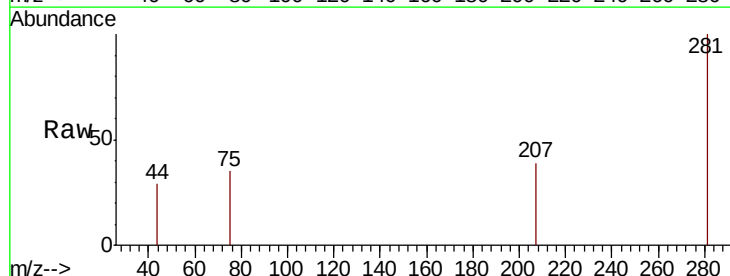
Tgt Ion: 75 Resp: 76

Ion Ratio Lower Upper

75 100

155 0.0 40.8 122.2#

157 0.0 51.1 153.4#



Abundance Ion 74.90 (74.60 to 75.60): VW  
Ion 154.80 (154.50 to 155.50): V  
Ion 156.80 (156.50 to 157.50): V

