

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW010719\  
 Data File : VW008066.D  
 Acq On : 07 Jan 2019 13:42  
 Operator : SY/AP  
 Sample : K1010-01RE  
 Misc : 5.62G/5ML/MSVOA W/SOIL  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 OK-03-010419RE

Quant Time: Jan 08 03:43:16 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W010219S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Jan 03 05:03:55 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.95  | 168  | 66430    | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.84  | 114  | 112114   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 80258    | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 29049    | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 8.30  | 65   | 40920    | 55.69 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 111.38% |          |
| 35) Dibromofluoromethane    | 7.88  | 113  | 34963    | 49.47 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 98.94%  |          |
| 50) Toluene-d8              | 10.32 | 98   | 125619   | 47.38 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 94.76%  |          |
| 62) 4-Bromofluorobenzene    | 12.62 | 95   | 38497    | 37.86 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 75.72%  |          |

| Target Compounds               | R.T.  | QIon | Response | Conc    | Units  | Qvalue |
|--------------------------------|-------|------|----------|---------|--------|--------|
| 8) Diethyl Ether               | 3.67  | 74   | 519      | 1.723   | ug/l   | 92     |
| 16) Acetone                    | 4.13  | 43   | 3130     | 27.520  | ug/l   | 96     |
| 20) Methylene Chloride         | 4.91  | 84   | 5881     | 6.308   | ug/l   | 94     |
| 25) 2-Butanone                 | 7.18  | 43   | 301      | 2.246   | ug/l # | 45     |
| 31) Cyclohexane                | 7.95  | 56   | 1331     | 1.185   | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 7.95  | 75   | 5248     | 4.745   | ug/l # | 51     |
| 38) Carbon Tetrachloride       | 7.95  | 117  | 7463     | 5.631   | ug/l # | 15     |
| 48) Methyl methacrylate        | 9.34  | 41   | 395      | 1.180   | ug/l # | 38     |
| 51) 4-Methyl-2-Pentanone       | 10.21 | 43   | 380      | 1.237   | ug/l # | 66     |
| 52) Toluene                    | 10.39 | 92   | 6675     | 3.465   | ug/l   | 99     |
| 55) 1,1,2-Trichloroethane      | 10.76 | 97   | 1905     | 3.811   | ug/l # | 20     |
| 56) Ethyl methacrylate         | 10.66 | 69   | 575      | 1.017   | ug/l # | 15     |
| 59) 2-Hexanone                 | 10.93 | 43   | 1268     | 5.978   | ug/l # | 25     |
| 67) Ethyl Benzene              | 11.73 | 91   | 5917     | 1.943   | ug/l # | 87     |
| 68) m/p-Xylenes                | 11.84 | 106  | 7506     | 6.377   | ug/l   | 97     |
| 69) o-Xylene                   | 12.17 | 106  | 6934     | 6.331   | ug/l   | 92     |
| 73) Isopropylbenzene           | 12.47 | 105  | 4704     | 2.036   | ug/l   | 95     |
| 74) N-amyl acetate             | 12.26 | 43   | 3035     | 8.441   | ug/l # | 70     |
| 76) 1,2,3-Trichloropropane     | 12.62 | 75   | 20869    | 90.303  | ug/l # | 1      |
| 78) n-propylbenzene            | 12.81 | 91   | 13039    | 4.869   | ug/l   | 98     |
| 79) 2-Chlorotoluene            | 12.87 | 91   | 8077     | 5.218   | ug/l # | 41     |
| 80) 1,3,5-Trimethylbenzene     | 12.95 | 105  | 27200    | 13.680  | ug/l   | 96     |
| 81) trans-1,4-Dichloro-2-buten | 12.62 | 75   | 20869    | 213.553 | ug/l # | 6      |
| 82) 4-Chlorotoluene            | 12.94 | 91   | 3369     | 2.047   | ug/l # | 45     |
| 83) tert-Butylbenzene          | 13.26 | 119  | 16055    | 9.229   | ug/l # | 72     |
| 84) 1,2,4-Trimethylbenzene     | 13.26 | 105  | 126030   | 62.579  | ug/l   | 99     |
| 85) sec-Butylbenzene           | 13.39 | 105  | 11747    | 4.909   | ug/l   | 86     |
| 86) p-Isopropyltoluene         | 13.50 | 119  | 8283     | 3.837   | ug/l   | 98     |
| 89) n-Butylbenzene             | 13.83 | 91   | 12594    | 6.379   | ug/l # | 55     |
| 90) Hexachloroethane           | 14.10 | 117  | 7325     | 19.557  | ug/l # | 12     |
| 92) 1,2-Dibromo-3-Chloropropan | 14.51 | 75   | 419      | 7.024   | ug/l # | 33     |
| 95) Naphthalene                | 15.37 | 128  | 62072    | 58.948  | ug/l # | 91     |
| 96) 1,2,3-Trichlorobenzene     | 15.58 | 180  | 1546     | 3.039   | ug/l # | 22     |

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Quant Title : SW846 8260  
QLast Update : Thu Jan 03 05:03:55 2019  
Response via : Initial Calibration

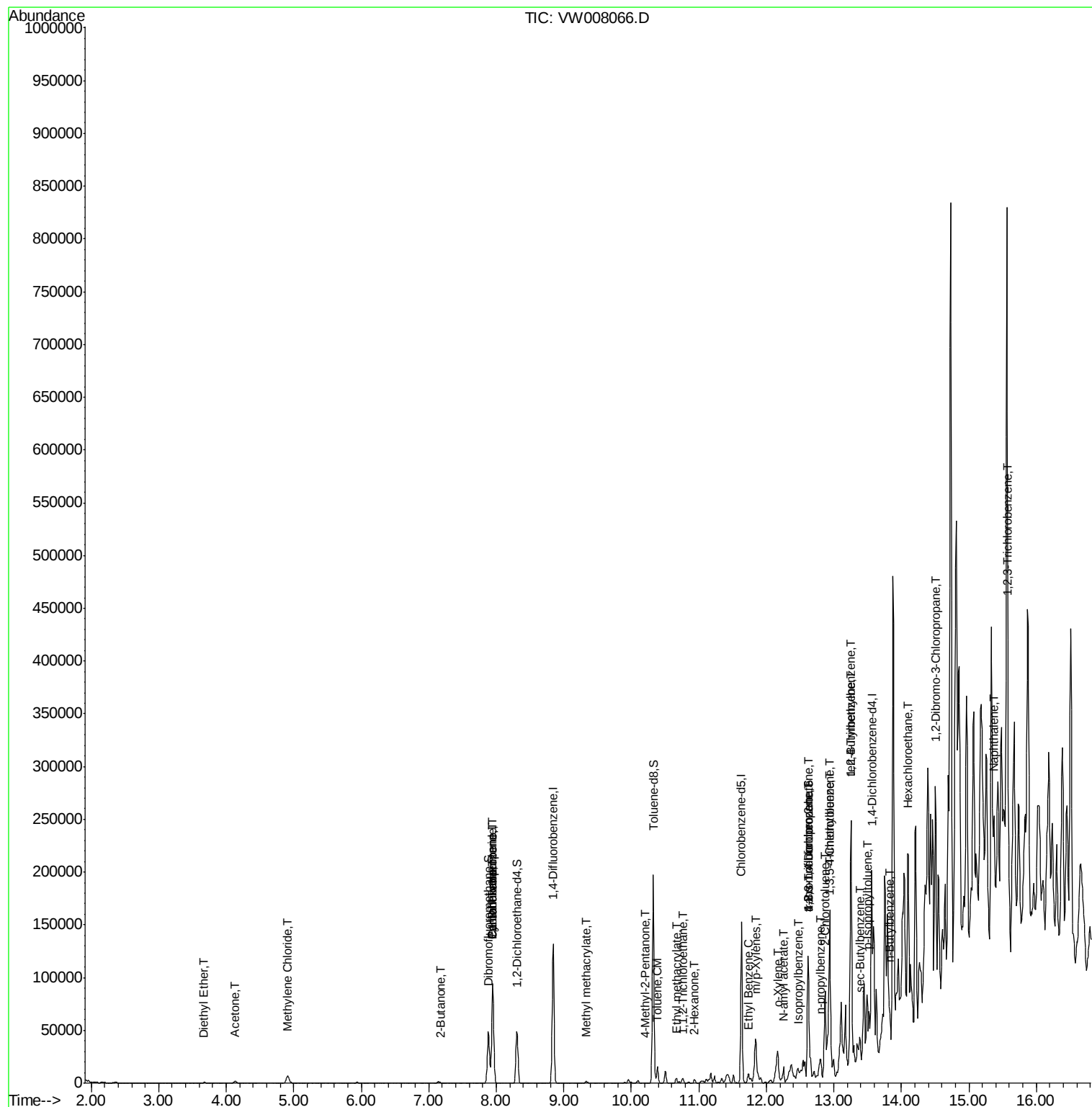
| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|--------------------|------|------|----------|------|-------|----------|
|--------------------|------|------|----------|------|-------|----------|

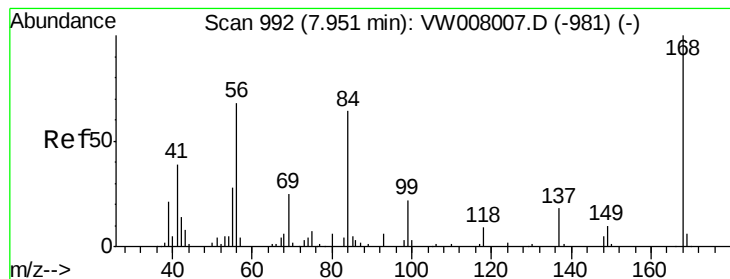
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.01 min

Lab File: VW008066.D

Acq: 07 Jan 2019 13:42

Instrument :

MSVOA\_W

ClientSampleId :

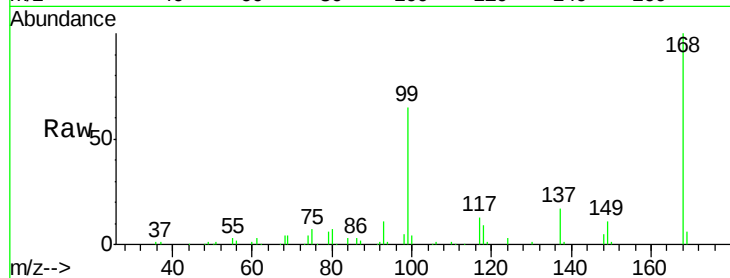
OK-03-010419RE

Tot Ion:168 Resp: 66430

Ion Ratio Lower Upper

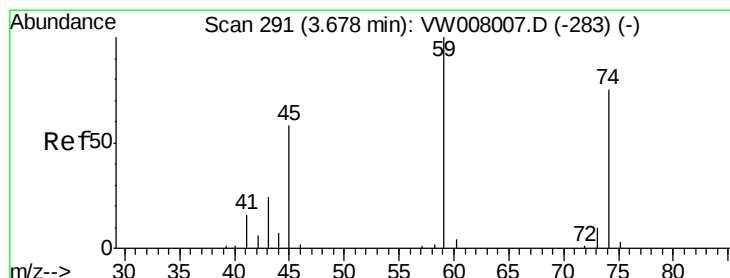
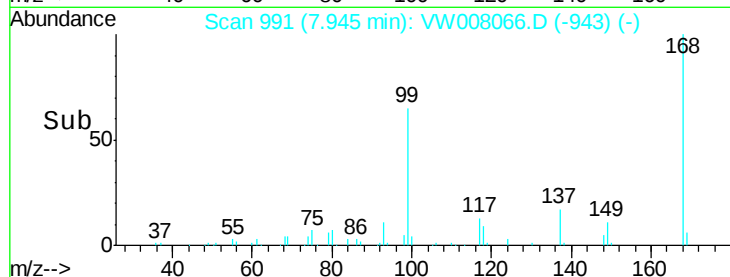
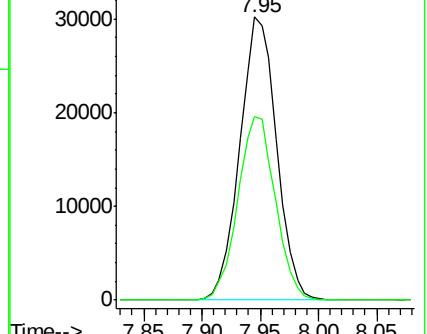
168 100

99 64.7 51.6 77.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



#8

Diethyl Ether

Concen: 1.723 ug/l

RT: 3.67 min Scan# 290

Delta R.T. -0.01 min

Lab File: VW008066.D

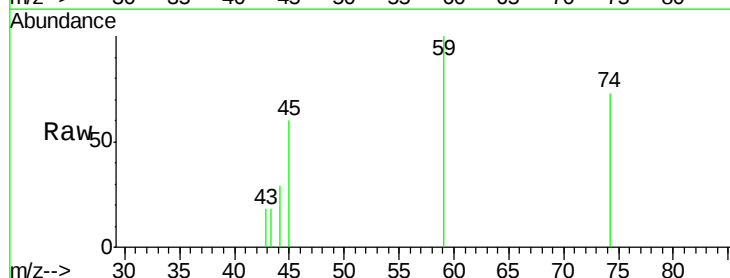
Acq: 07 Jan 2019 13:42

Tgt Ion: 74 Resp: 519

Ion Ratio Lower Upper

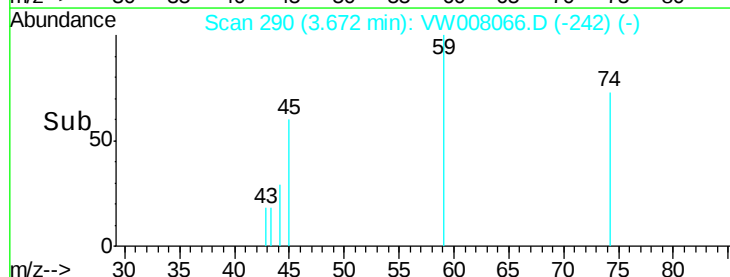
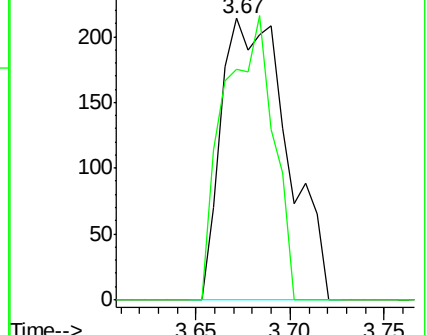
74 100

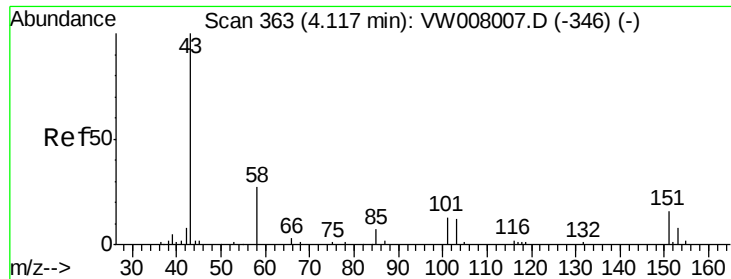
45 75.3 41.4 124.2



Abundance Ion 74.00 (73.70 to 74.70): VW

Ion 45.00 (44.70 to 45.70): VW





#16

Acetone

Concen: 27.520 ug/l

RT: 4.13 min Scan# 366

Delta R.T. 0.02 min

Lab File: VW008066.D

Acq: 07 Jan 2019 13:42

Instrument :

MSVOA\_W

ClientSampleId :

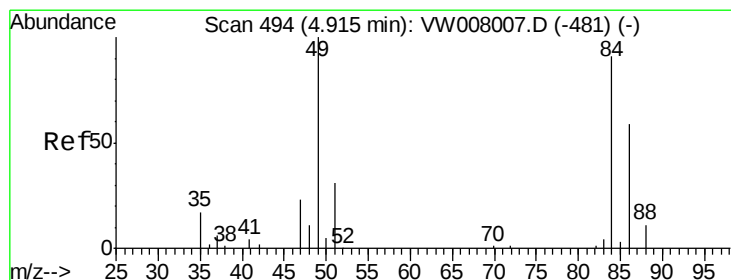
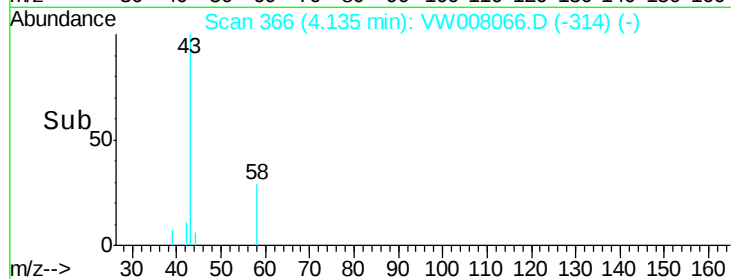
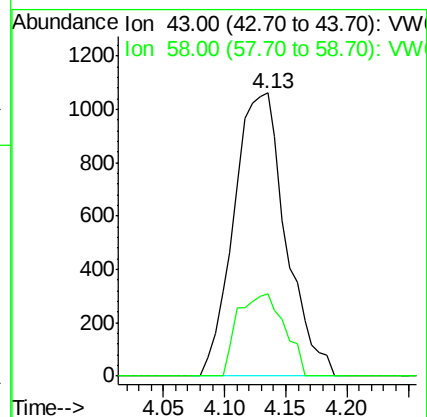
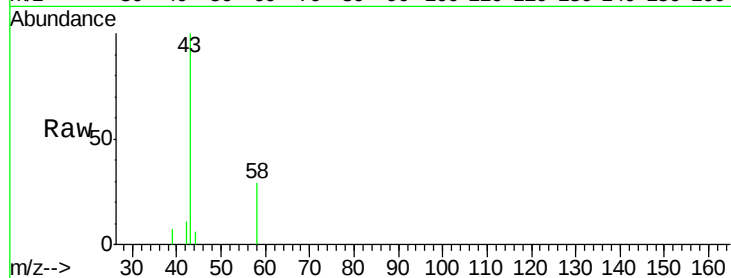
OK-03-010419RE

Tot Ion: 43 Resp: 3130

Ion Ratio Lower Upper

43 100

58 29.2 21.7 32.5



#20

Methylene Chloride

Concen: 6.308 ug/l

RT: 4.91 min Scan# 493

Delta R.T. -0.01 min

Lab File: VW008066.D

Acq: 07 Jan 2019 13:42

Tgt Ion: 84 Resp: 5881

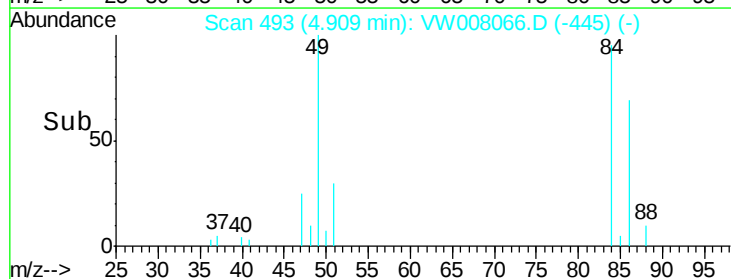
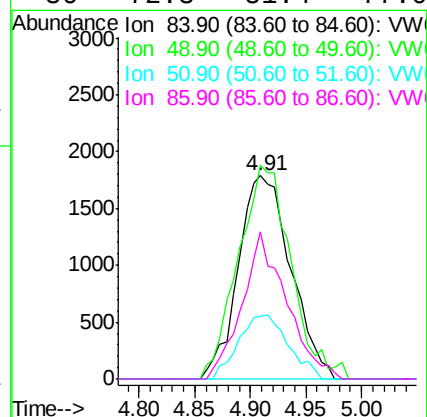
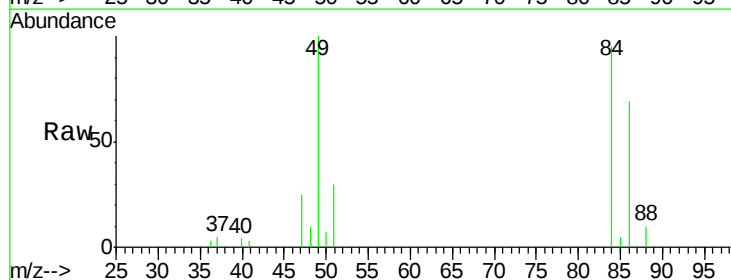
Ion Ratio Lower Upper

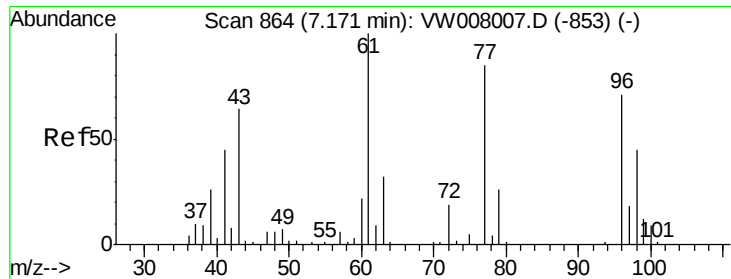
84 100

49 105.1 87.7 131.5

51 31.1 27.3 40.9

86 72.3 51.4 77.0

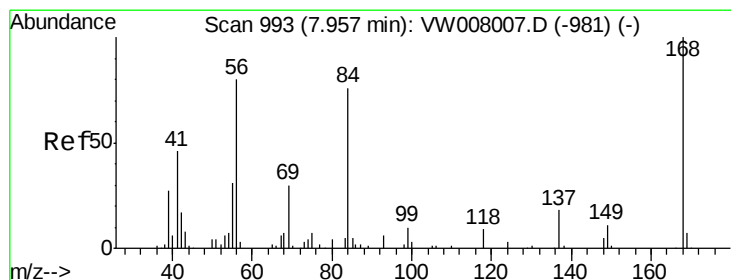
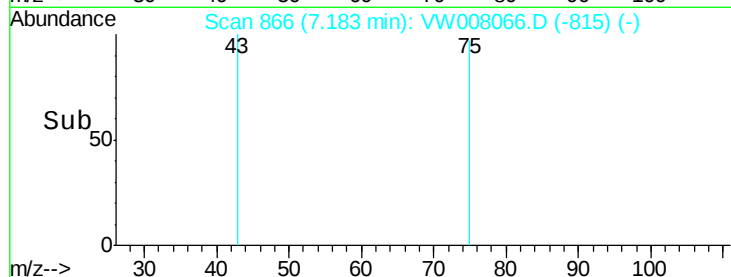
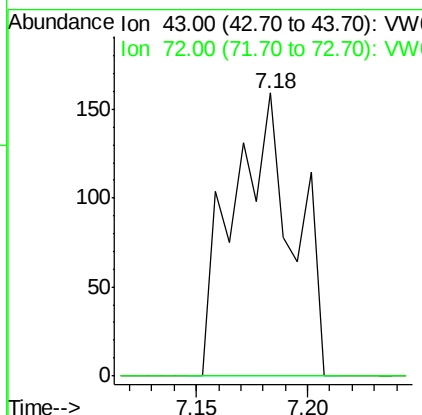
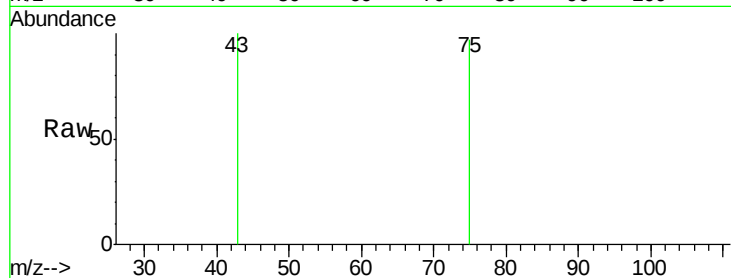




#25  
2-Butanone  
Concen: 2.246 ug/l  
RT: 7.18 min Scan# 866  
Delta R.T. 0.01 min  
Lab File: VW008066.D  
Acq: 07 Jan 2019 13:42

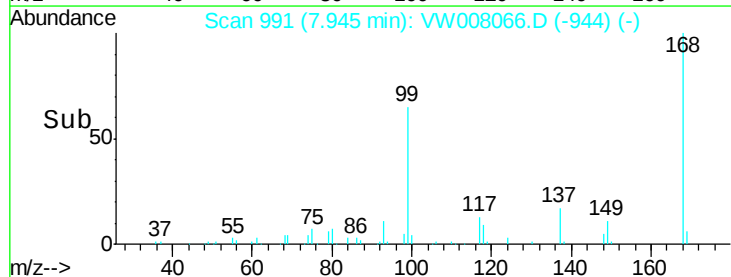
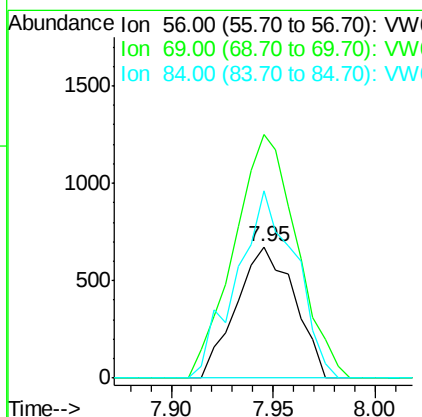
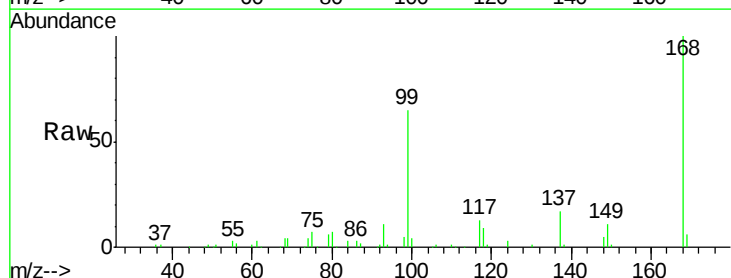
Instrument :  
MSVOA\_W  
ClientSampleId :  
OK-03-010419RE

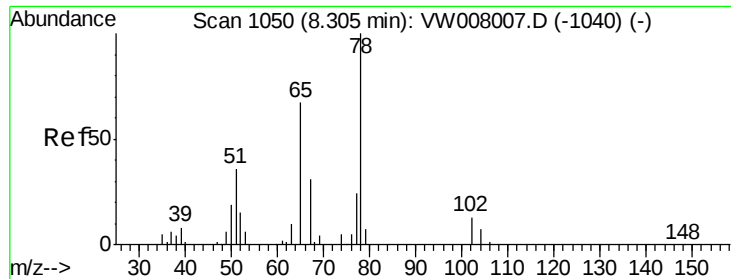
Tot Ion: 43 Resp: 301  
Ion Ratio Lower Upper  
43 100  
72 0.0 23.8 35.8#



#31  
Cyclohexane  
Concen: 1.185 ug/l  
RT: 7.95 min Scan# 991  
Delta R.T. -0.01 min  
Lab File: VW008066.D  
Acq: 07 Jan 2019 13:42

Tgt Ion: 56 Resp: 1331  
Ion Ratio Lower Upper  
56 100  
69 185.5 29.8 44.6#  
84 142.6 75.2 112.8#





#33

1,2-Dichloroethane-d4

Concen: 55.692 ug/l

RT: 8.30 min Scan# 1050

Delta R.T. -0.00 min

Lab File: VW008066.D

Acq: 07 Jan 2019 13:42

Instrument :

MSVOA\_W

ClientSampleId :

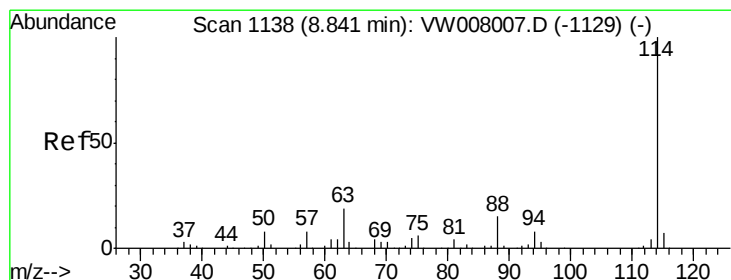
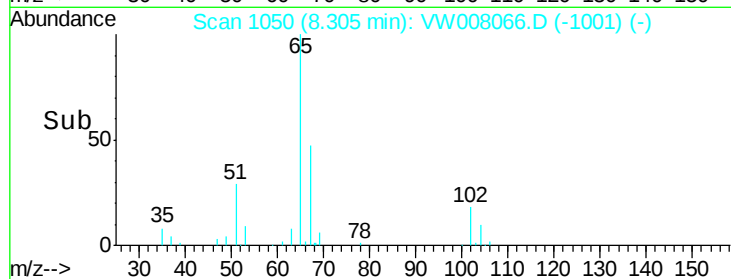
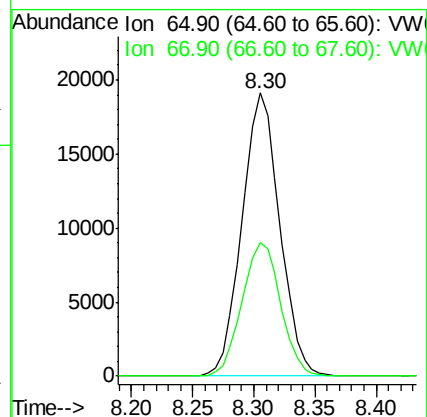
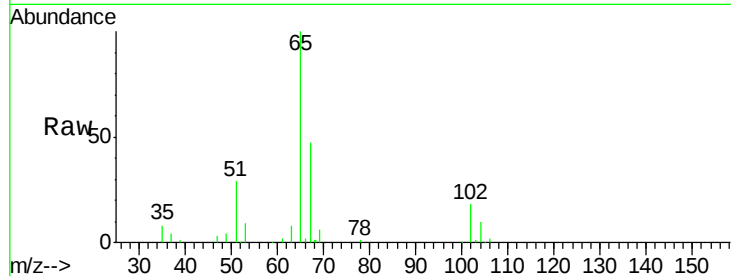
OK-03-010419RE

Tot Ion: 65 Resp: 40920

Ion Ratio Lower Upper

65 100

67 48.4 0.0 94.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.84 min Scan# 1138

Delta R.T. -0.00 min

Lab File: VW008066.D

Acq: 07 Jan 2019 13:42

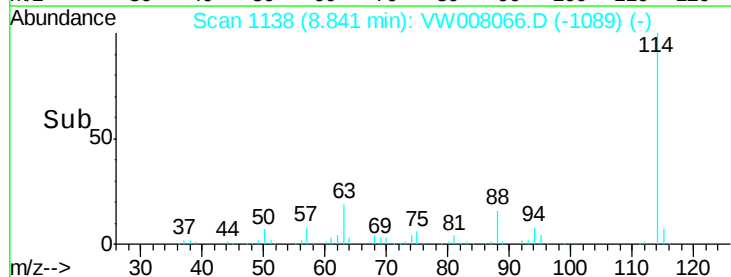
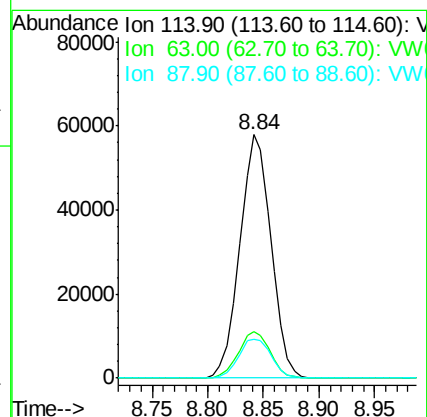
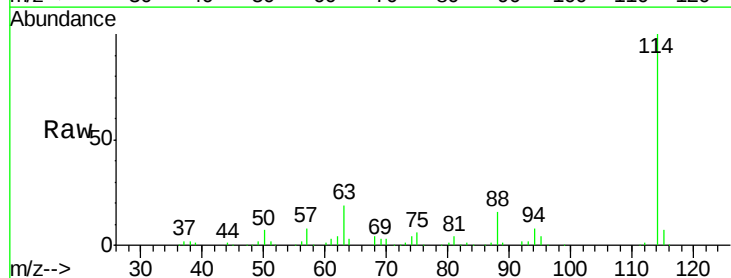
Tgt Ion: 114 Resp: 112114

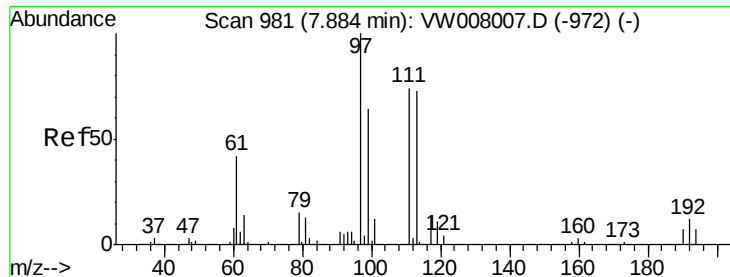
Ion Ratio Lower Upper

114 100

63 19.0 0.0 37.8

88 15.8 0.0 31.0

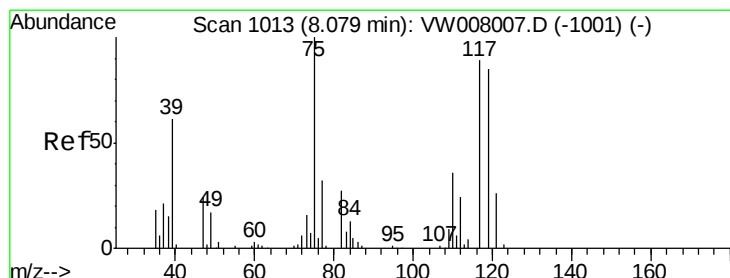
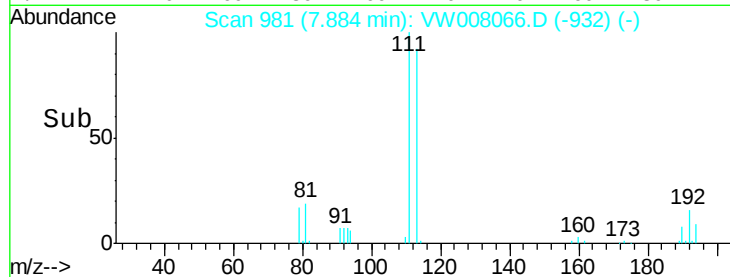
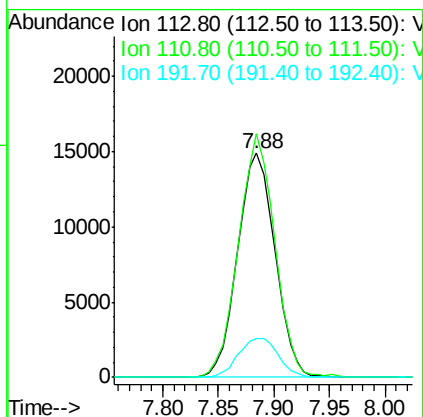
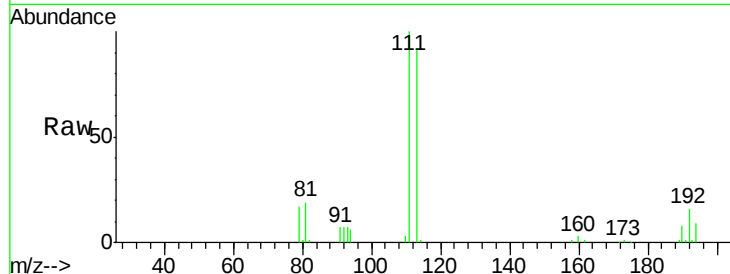




#35  
 Dibromofluoromethane  
 Concen: 49.469 ug/l  
 RT: 7.88 min Scan# 981  
 Delta R.T. -0.00 min  
 Lab File: VW008066.D  
 Acq: 07 Jan 2019 13:42

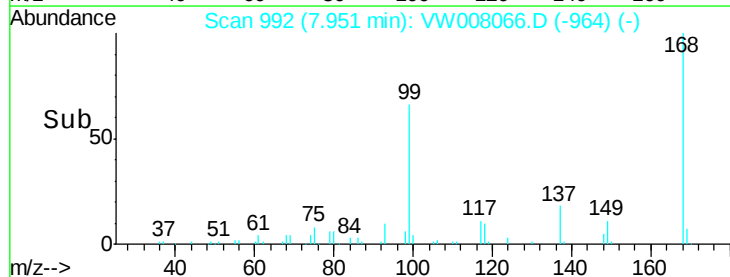
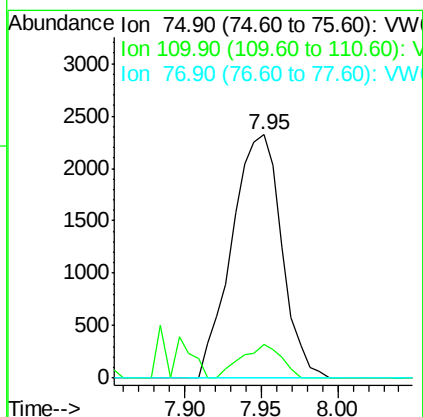
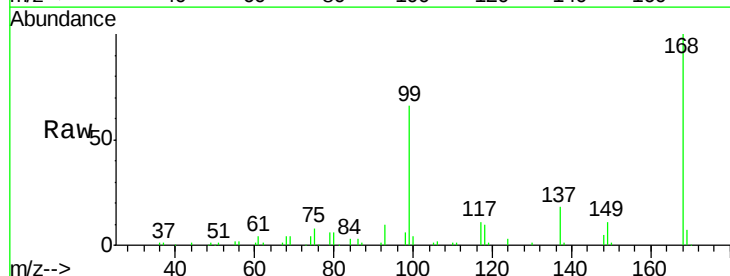
Instrument :  
 MSVOA\_W  
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 OK-03-010419RE

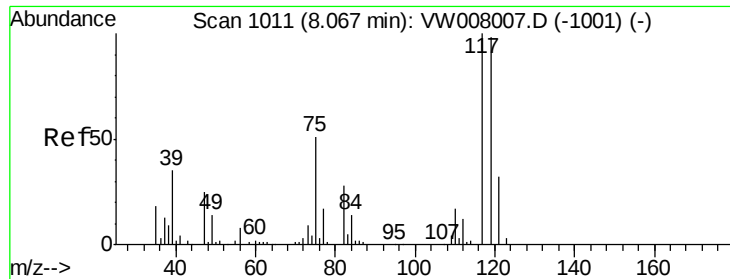
Tot Ion:113 Resp: 34963  
 Ion Ratio Lower Upper  
 113 100  
 111 105.0 81.4 122.0  
 192 18.4 14.8 22.2



#36  
 1,1-Dichloropropene  
 Concen: 4.745 ug/l  
 RT: 7.95 min Scan# 992  
 Delta R.T. -0.13 min  
 Lab File: VW008066.D  
 Acq: 07 Jan 2019 13:42

Tgt Ion: 75 Resp: 5248  
 Ion Ratio Lower Upper  
 75 100  
 110 11.1 18.1 54.3#  
 77 0.0 25.3 37.9#





#38

Carbon Tetrachloride

Concen: 5.631 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.12 min

Lab File: VW008066.D

Acq: 07 Jan 2019 13:42

Instrument :

MSVOA\_W

ClientSampleId :

OK-03-010419RE

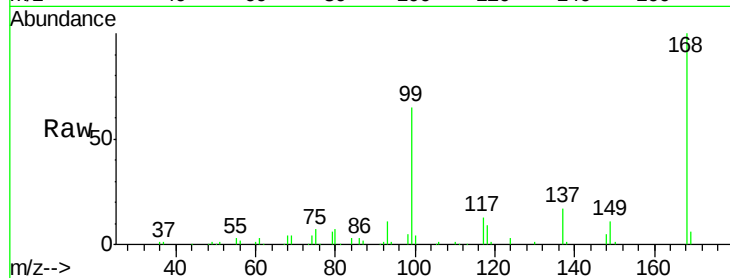
Tot Ion:117 Resp: 7463

Ion Ratio Lower Upper

117 100

119 4.9 78.7 118.1#

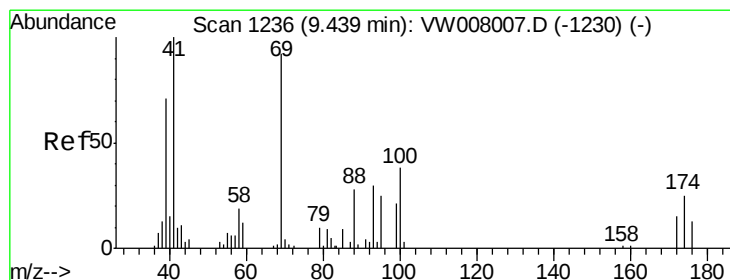
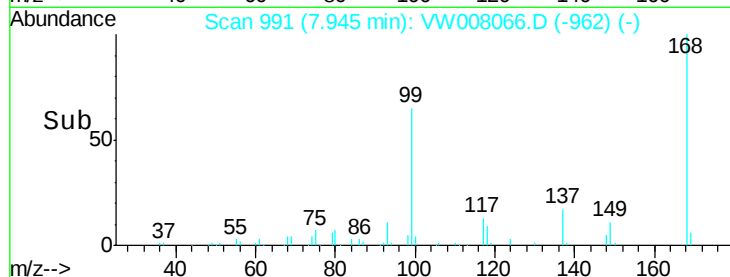
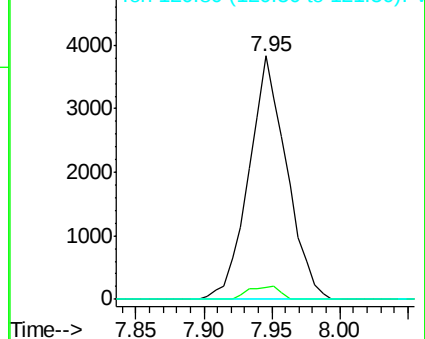
121 0.0 25.8 38.8#



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



#48

Methyl methacrylate

Concen: 1.180 ug/l

RT: 9.34 min Scan# 1219

Delta R.T. -0.10 min

Lab File: VW008066.D

Acq: 07 Jan 2019 13:42

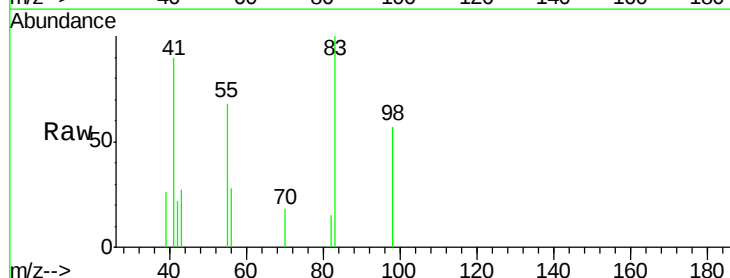
Tgt Ion: 41 Resp: 395

Ion Ratio Lower Upper

41 100

69 10.6 72.3 108.5#

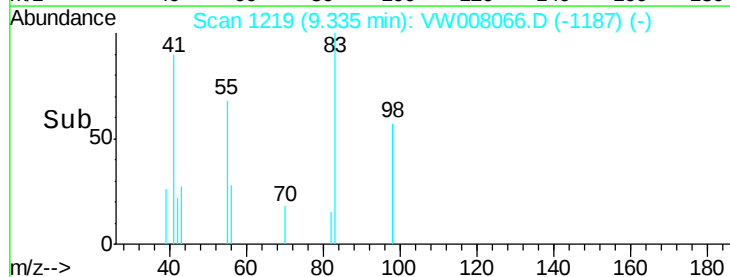
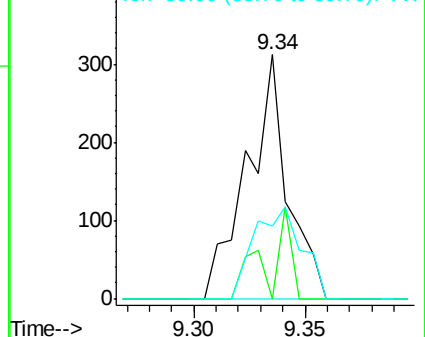
39 44.6 58.7 88.1#

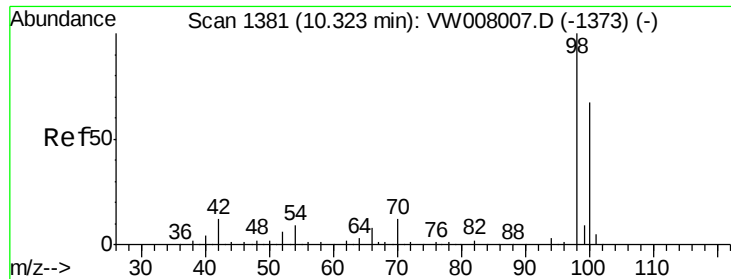


Abundance Ion 41.00 (40.70 to 41.70): VW

Ion 69.00 (68.70 to 69.70): VW

Ion 39.00 (38.70 to 39.70): VW





#50

Toluene-d8

Concen: 47.381 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. -0.00 min

Lab File: VW008066.D

Acq: 07 Jan 2019 13:42

Instrument :

MSVOA\_W

ClientSampleId :

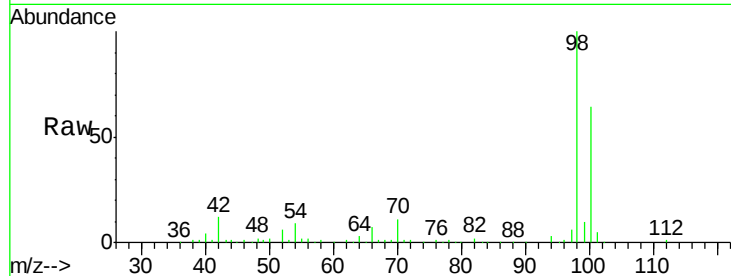
OK-03-010419RE

Tot Ion: 98 Resp: 125619

Ion Ratio Lower Upper

98 100

100 64.7 52.9 79.3



Abundance Ion 98.00 (97.70 to 98.70): VW

Ion 100.00 (99.70 to 100.70): VW

10.32

80000

60000

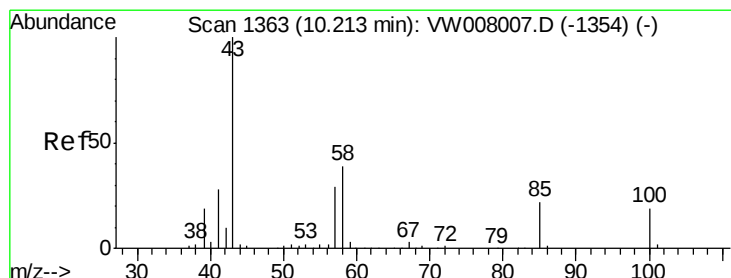
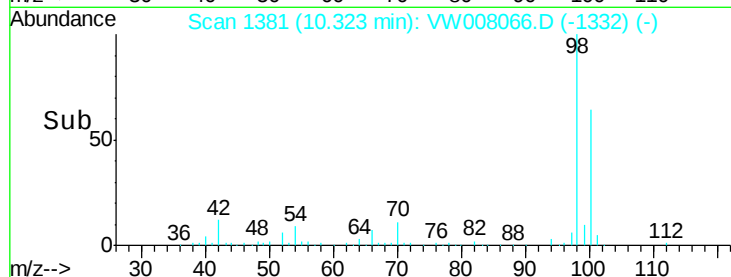
40000

20000

0

10.30 10.32 10.34 10.36 10.38 10.40

Time-->



#51

4-Methyl-2-Pentanone

Concen: 1.237 ug/l

RT: 10.21 min Scan# 1363

Delta R.T. -0.00 min

Lab File: VW008066.D

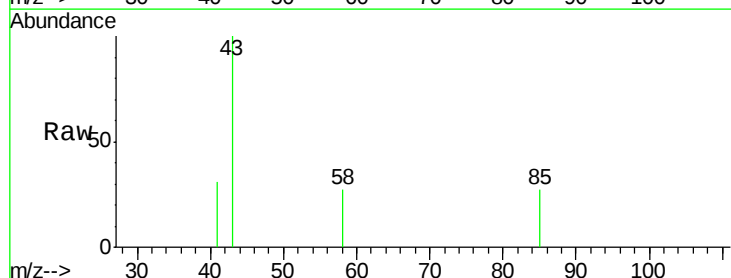
Acq: 07 Jan 2019 13:42

Tgt Ion: 43 Resp: 380

Ion Ratio Lower Upper

43 100

58 19.2 32.0 48.0#



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

10.21

250

200

150

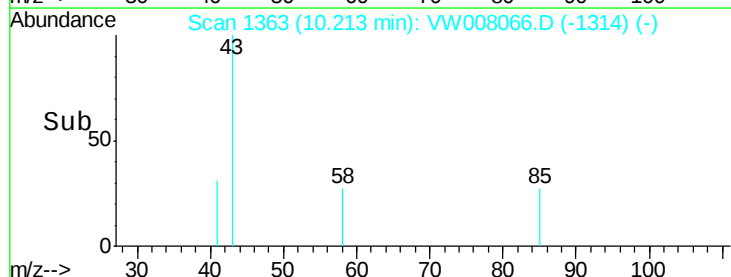
100

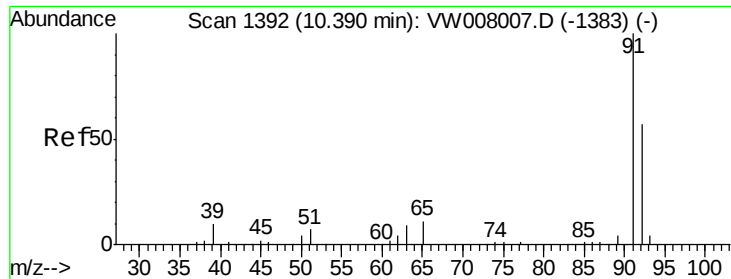
50

0

10.20 10.21 10.22 10.23 10.24 10.25

Time-->





#52

Toluene

Concen: 3.465 ug/l

RT: 10.39 min Scan# 1392

Delta R.T. -0.00 min

Lab File: VW008066.D

Acq: 07 Jan 2019 13:42

Instrument :

MSVOA\_W

ClientSampleId :

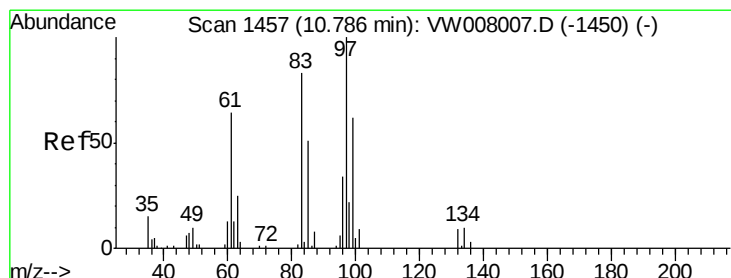
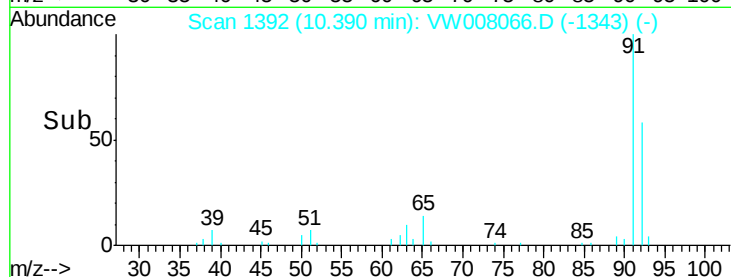
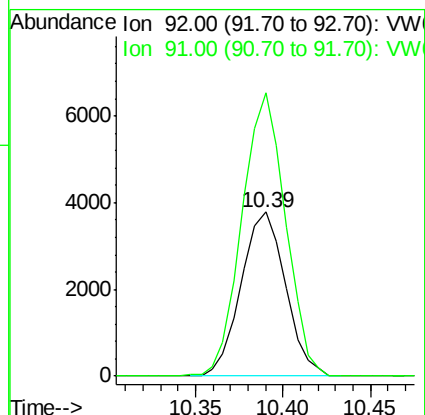
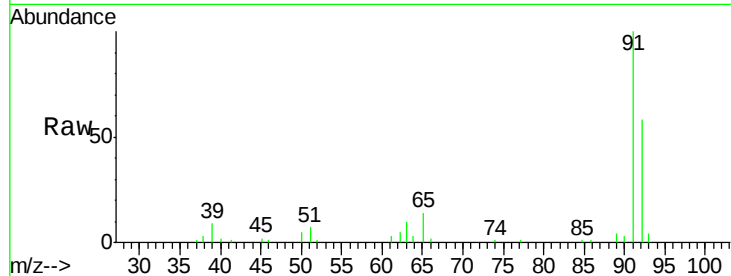
OK-03-010419RE

Tot Ion: 92 Resp: 6675

Ion Ratio Lower Upper

92 100

91 169.3 136.9 205.3



#55

1,1,2-Trichloroethane

Concen: 3.811 ug/l

RT: 10.76 min Scan# 1453

Delta R.T. -0.02 min

Lab File: VW008066.D

Acq: 07 Jan 2019 13:42

Tgt Ion: 97 Resp: 1905

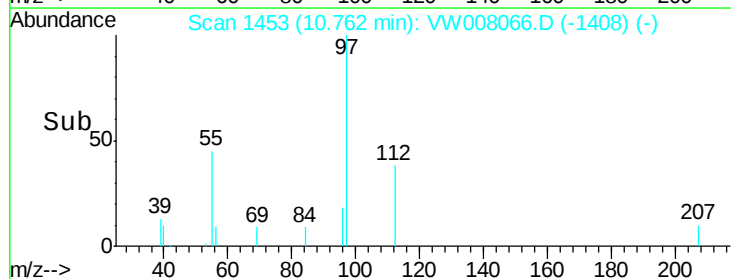
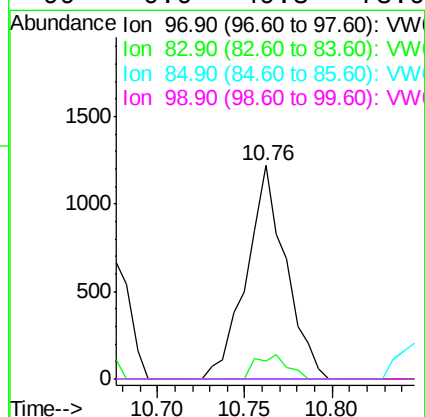
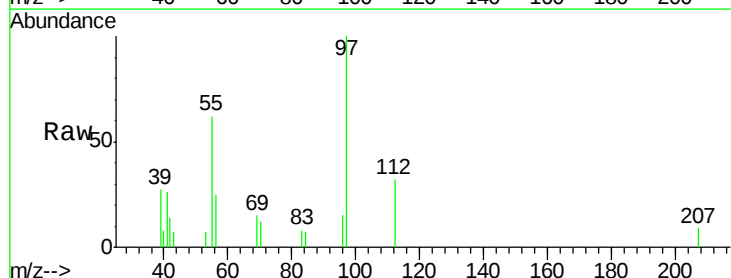
Ion Ratio Lower Upper

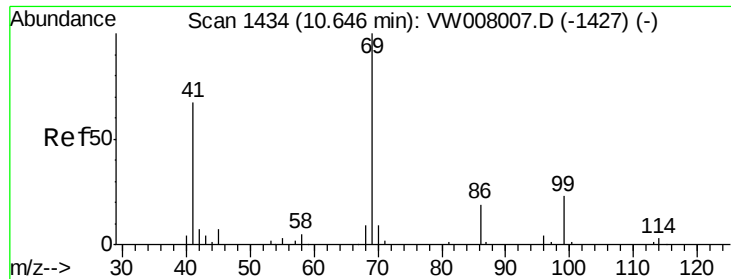
97 100

83 8.3 66.2 99.2#

85 0.0 41.0 61.4#

99 0.0 49.3 73.9#





#56

Ethyl methacrylate

Concen: 1.017 ug/l

RT: 10.66 min Scan# 1437

Delta R.T. 0.02 min

Lab File: VW008066.D

Acq: 07 Jan 2019 13:42

Instrument :

MSVOA\_W

ClientSampled :

OK-03-010419RE

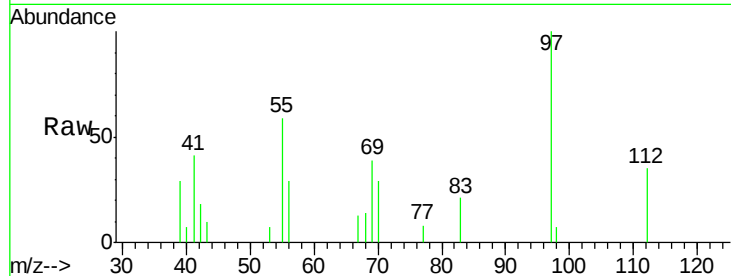
Tot Ion: 69 Resp: 575

Ion Ratio Lower Upper

69 100

41 144.3 52.6 79.0#

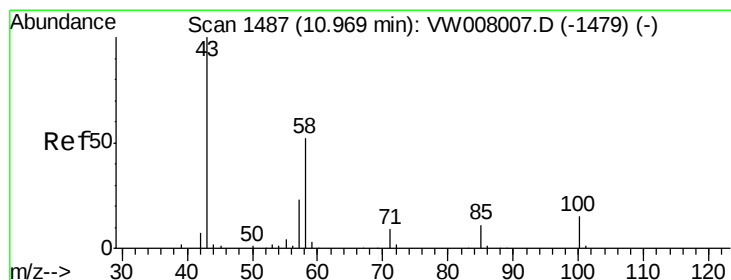
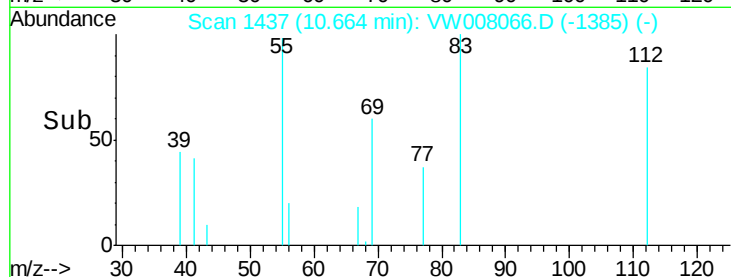
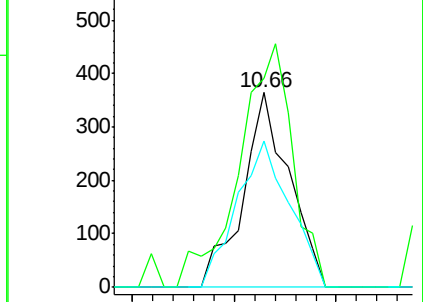
39 86.1 35.8 53.6#



Abundance Ion 69.00 (68.70 to 69.70): VW

Ion 41.00 (40.70 to 41.70): VW

Ion 39.00 (38.70 to 39.70): VW



#59

2-Hexanone

Concen: 5.978 ug/l

RT: 10.93 min Scan# 1481

Delta R.T. -0.04 min

Lab File: VW008066.D

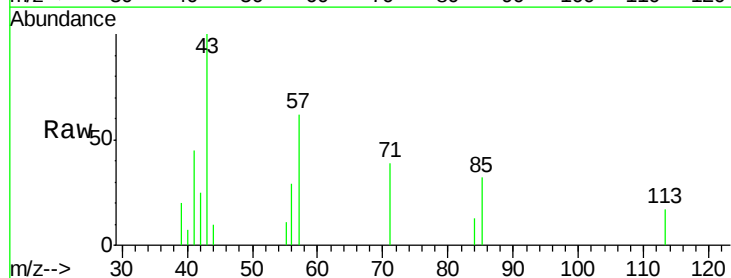
Acq: 07 Jan 2019 13:42

Tgt Ion: 43 Resp: 1268

Ion Ratio Lower Upper

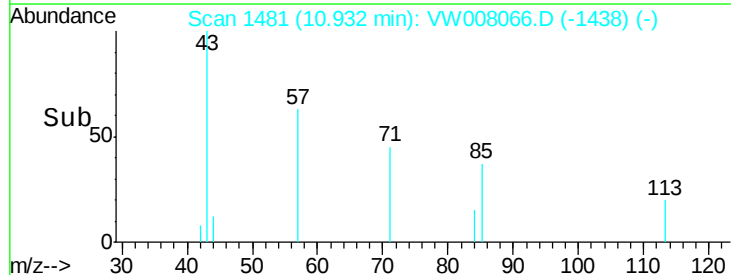
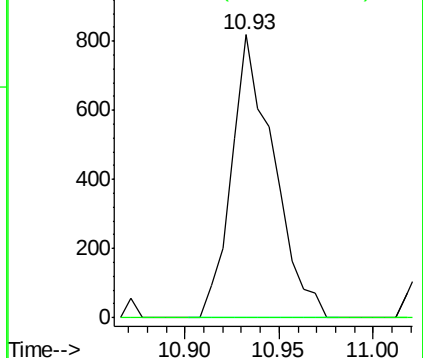
43 100

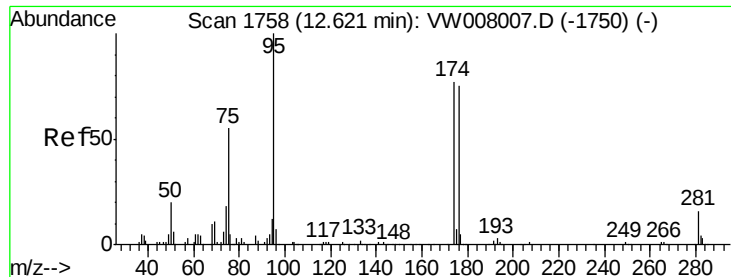
58 0.0 27.1 81.2#



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW





#62

4-Bromofluorobenzene

Concen: 37.862 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.00 min

Lab File: VW008066.D

Acq: 07 Jan 2019 13:42

Instrument :

MSVOA\_W

ClientSampleId :

OK-03-010419RE

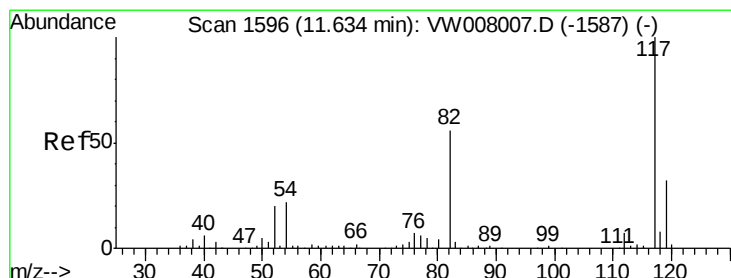
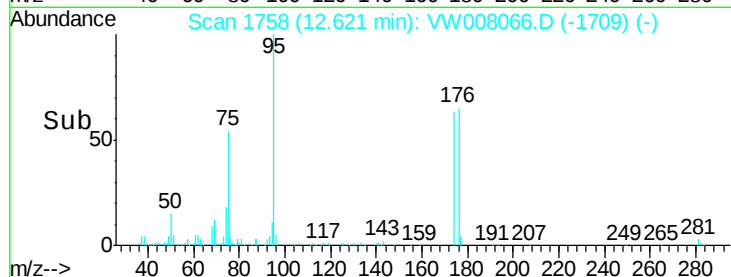
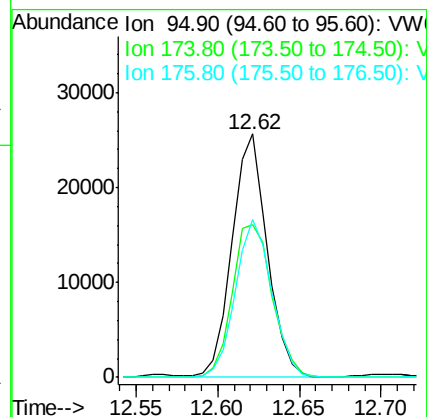
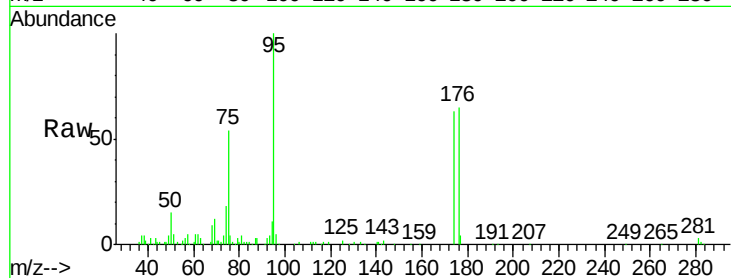
Tot Ion: 95 Resp: 38497

Ion Ratio Lower Upper

95 100

174 71.2 0.0 149.6

176 67.2 0.0 145.4



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.63 min Scan# 1596

Delta R.T. -0.00 min

Lab File: VW008066.D

Acq: 07 Jan 2019 13:42

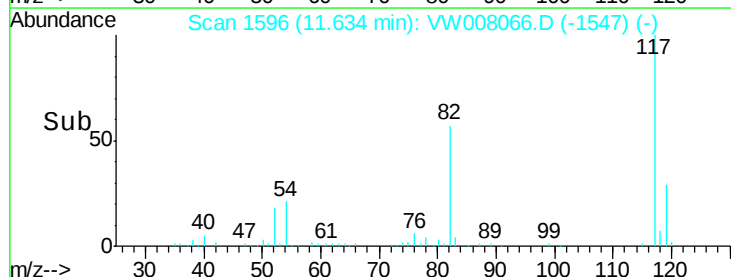
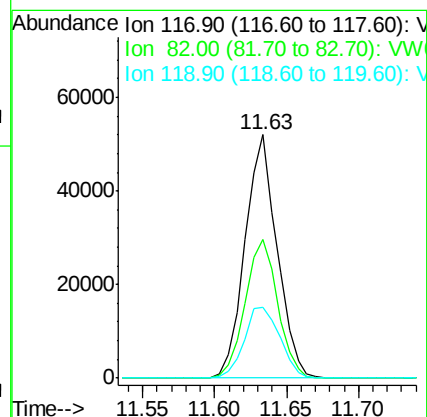
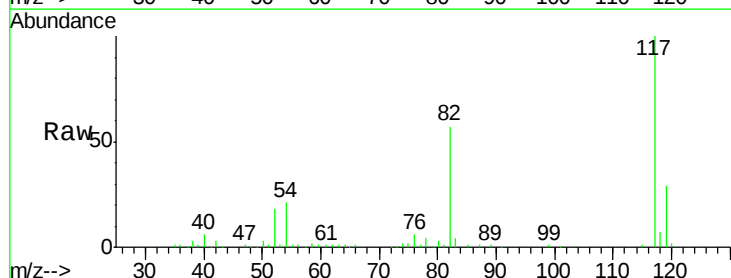
Tgt Ion: 117 Resp: 80258

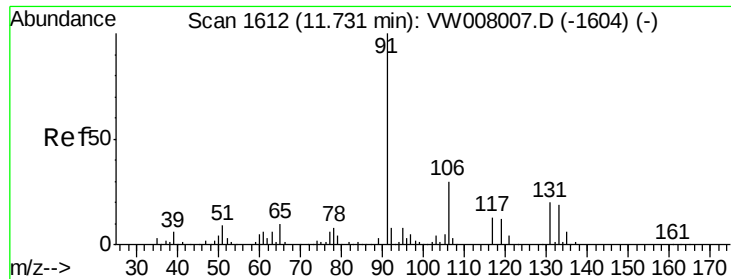
Ion Ratio Lower Upper

117 100

82 56.7 44.8 67.2

119 29.3 25.6 38.4

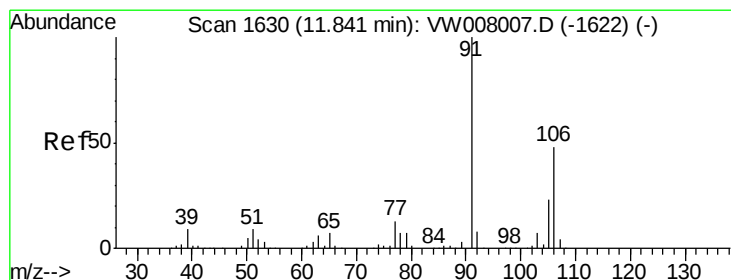
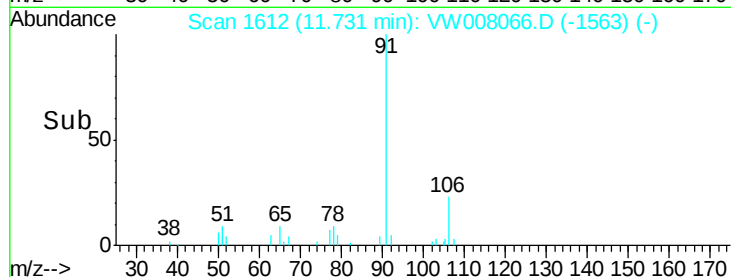
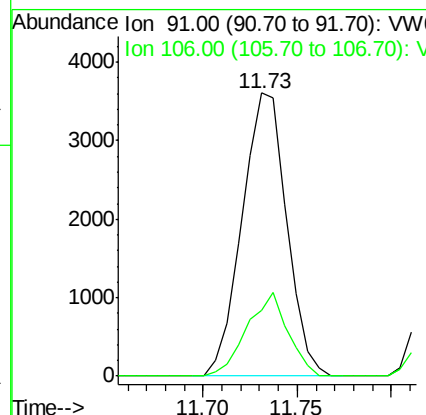
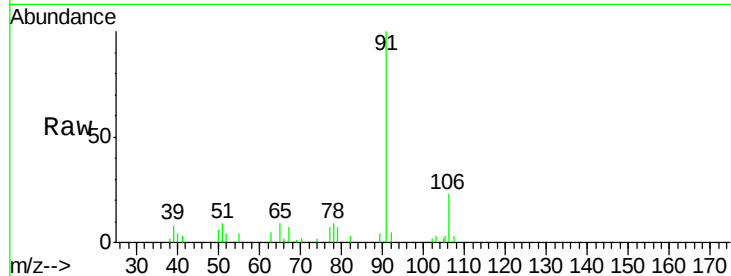




#67  
Ethyl Benzene  
Concen: 1.943 ug/l  
RT: 11.73 min Scan# 1612  
Delta R.T. -0.00 min  
Lab File: VW008066.D  
Acq: 07 Jan 2019 13:42

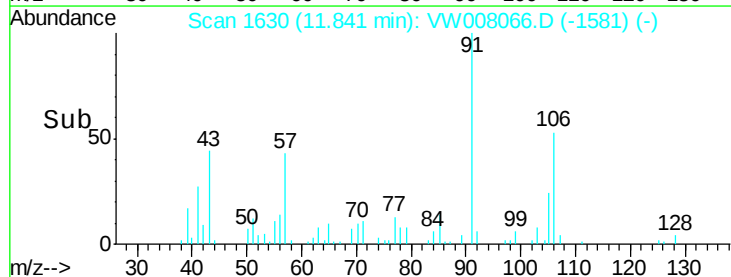
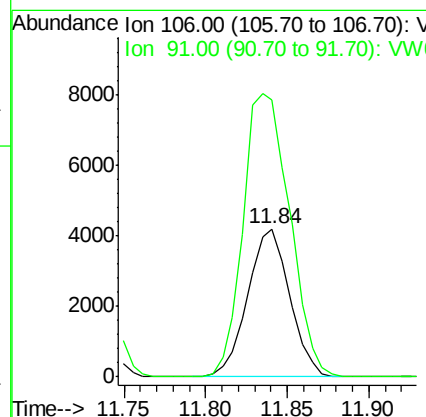
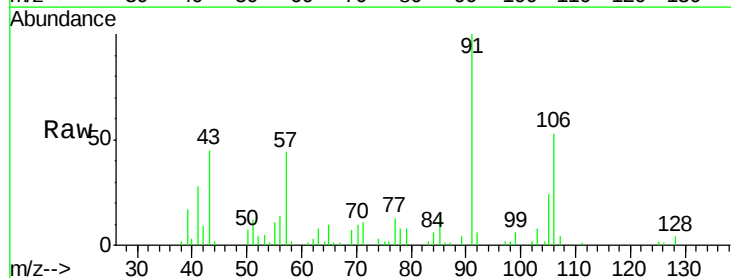
Instrument :  
MSVOA\_W  
ClientSampleId :  
OK-03-010419RE

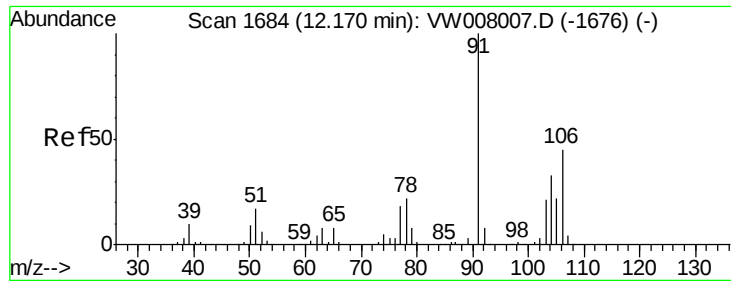
Tot Ion: 91 Resp: 5917  
Ion Ratio Lower Upper  
91 100  
106 23.2 24.3 36.5#



#68  
m/p-Xylenes  
Concen: 6.377 ug/l  
RT: 11.84 min Scan# 1630  
Delta R.T. -0.00 min  
Lab File: VW008066.D  
Acq: 07 Jan 2019 13:42

Tgt Ion: 106 Resp: 7506  
Ion Ratio Lower Upper  
106 100  
91 211.4 165.8 248.8

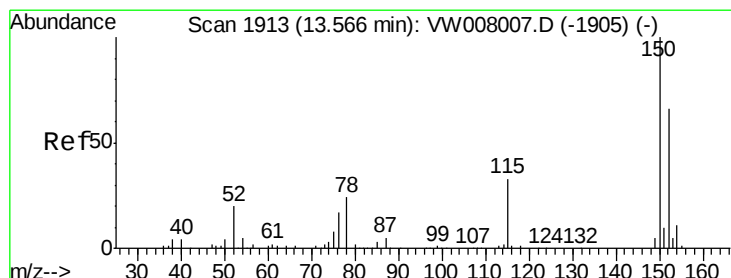
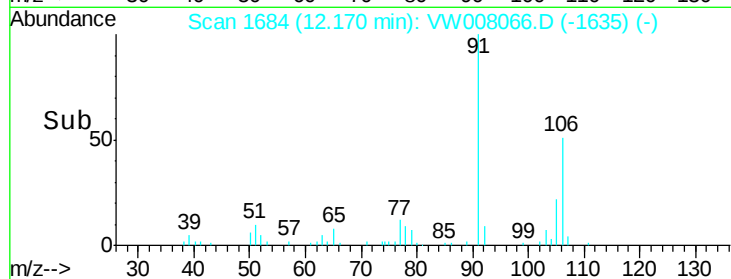
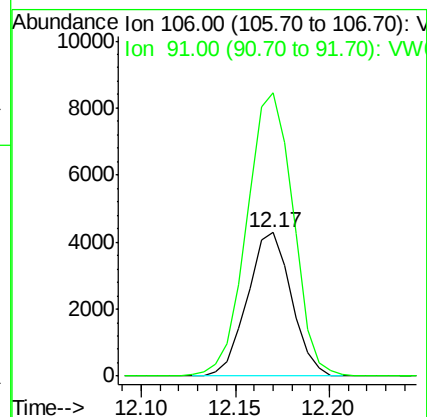
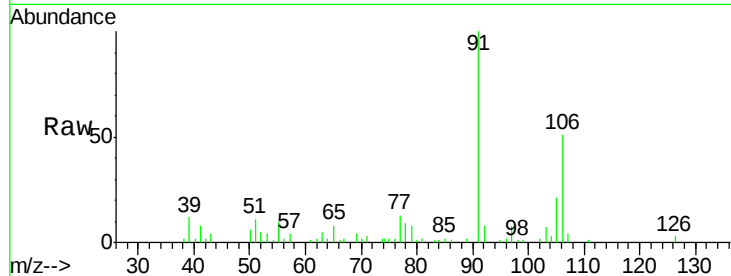




#69  
o-Xylene  
Concen: 6.331 ug/l  
RT: 12.17 min Scan# 1684  
Delta R.T. -0.00 min  
Lab File: VW008066.D  
Acq: 07 Jan 2019 13:42

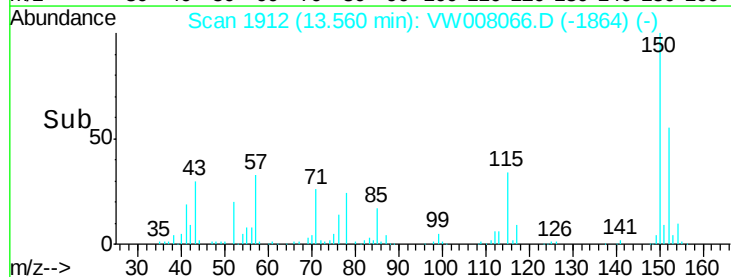
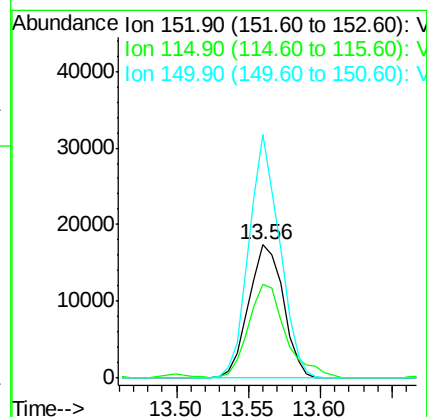
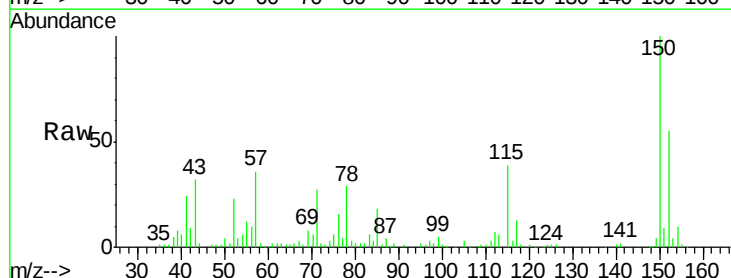
Instrument :  
MSVOA\_W  
ClientSampleId :  
OK-03-010419RE

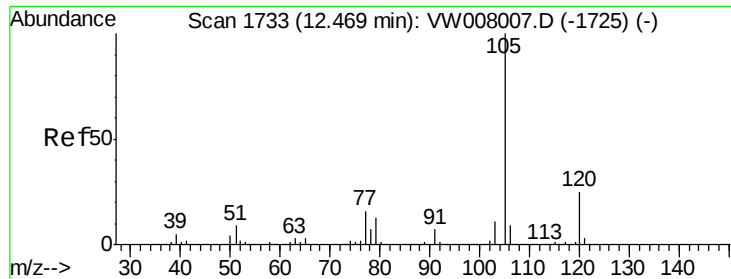
Tot Ion:106 Resp: 6934  
Ion Ratio Lower Upper  
106 100  
91 207.9 110.6 331.6



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.56 min Scan# 1912  
Delta R.T. -0.01 min  
Lab File: VW008066.D  
Acq: 07 Jan 2019 13:42

Tgt Ion:152 Resp: 29049  
Ion Ratio Lower Upper  
152 100  
115 75.4 32.1 96.5  
150 161.1 0.0 345.0





#73

Isopropylbenzene

Concen: 2.036 ug/l

RT: 12.47 min Scan# 1733

Delta R.T. -0.00 min

Lab File: VW008066.D

Acq: 07 Jan 2019 13:42

Instrument :

MSVOA\_W

ClientSampleId :

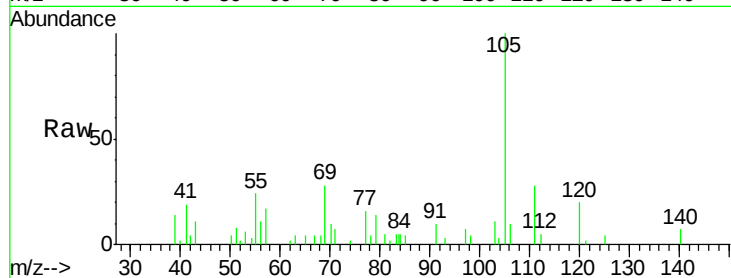
OK-03-010419RE

Tot Ion:105 Resp: 4704

Ion Ratio Lower Upper

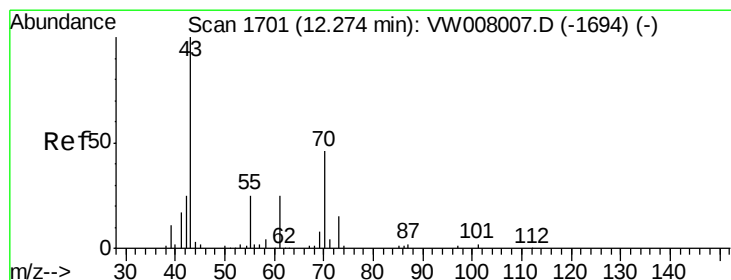
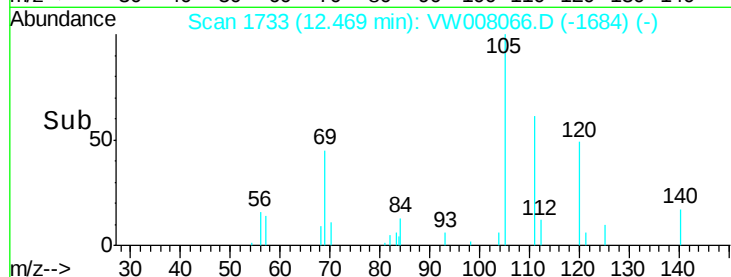
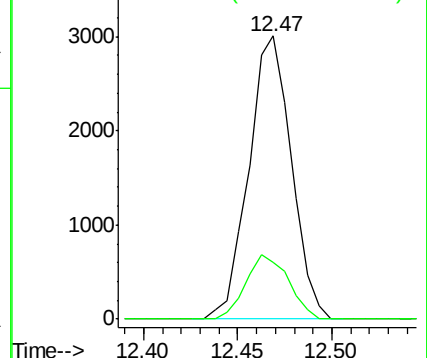
105 100

120 22.8 12.8 38.3



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 8.441 ug/l

RT: 12.26 min Scan# 1698

Delta R.T. -0.02 min

Lab File: VW008066.D

Acq: 07 Jan 2019 13:42

Tgt Ion: 43 Resp: 3035

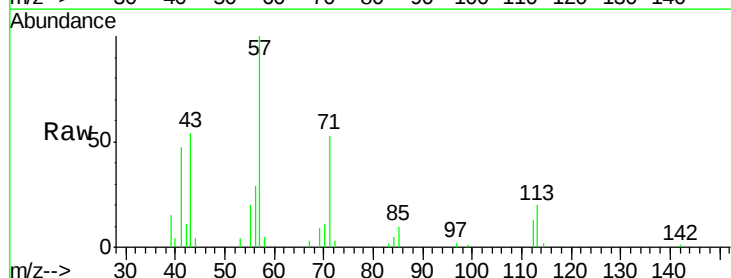
Ion Ratio Lower Upper

43 100

70 24.4 35.2 52.8#

55 20.4 21.4 32.0#

61 0.0 19.4 29.0#

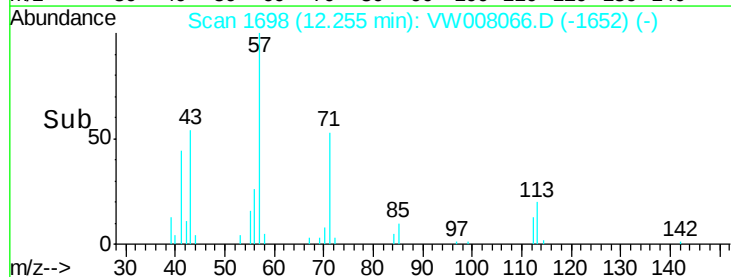
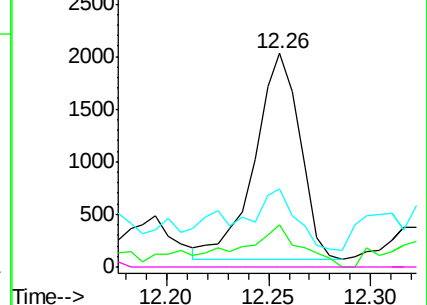


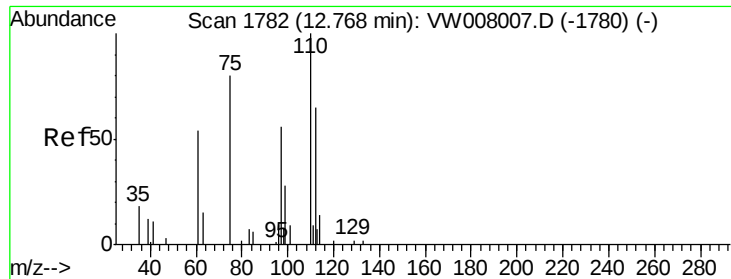
Abundance Ion 43.00 (42.70 to 43.70): VV

Ion 70.00 (69.70 to 70.70): VV

Ion 55.00 (54.70 to 55.70): VV

Ion 61.00 (60.70 to 61.70): VV

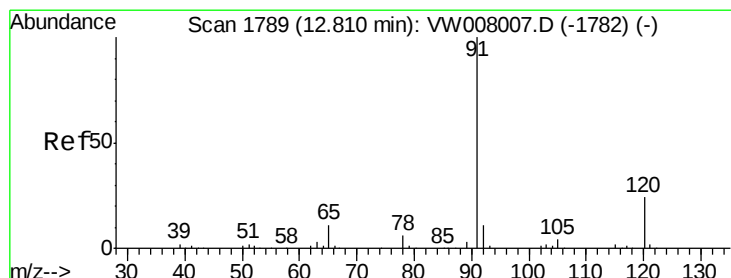
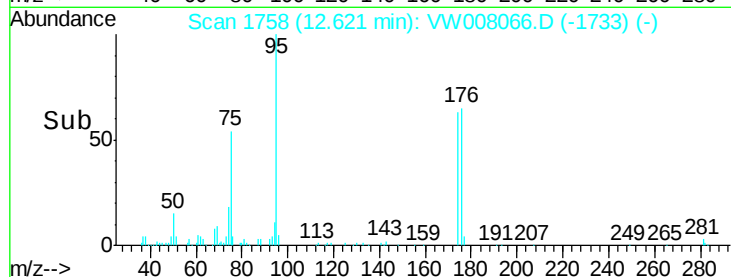
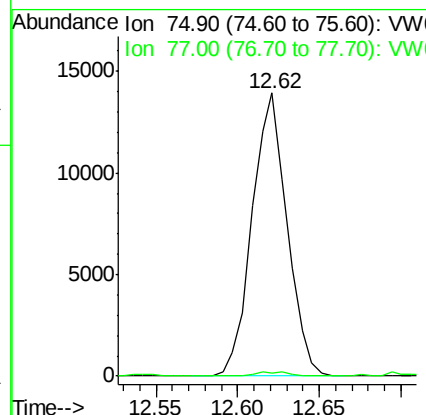
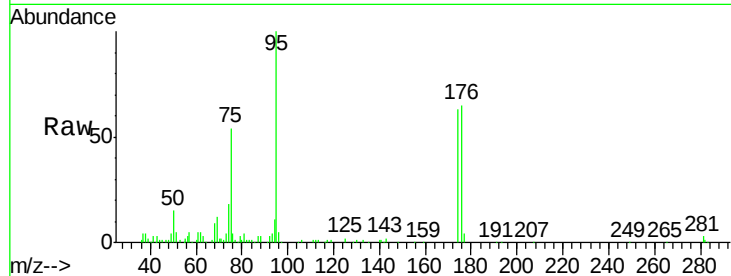




#76  
 1,2,3-Trichloropropane  
 Concen: 90.303 ug/l  
 RT: 12.62 min Scan# 1758  
 Delta R.T. -0.15 min  
 Lab File: VW008066.D  
 Acq: 07 Jan 2019 13:42

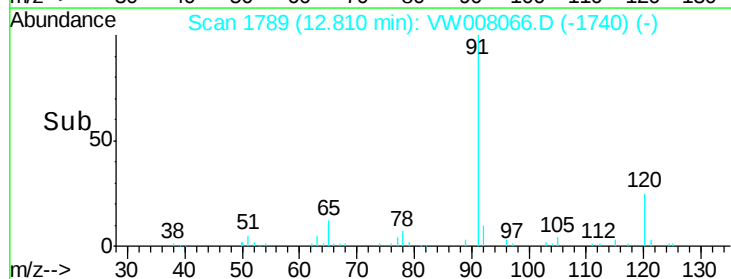
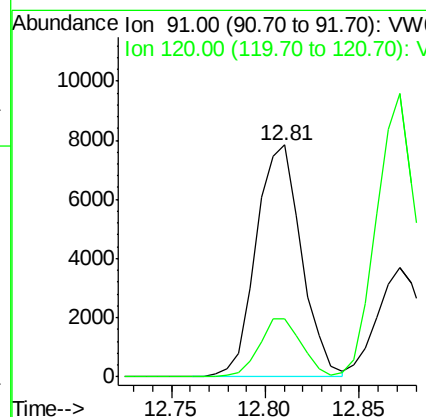
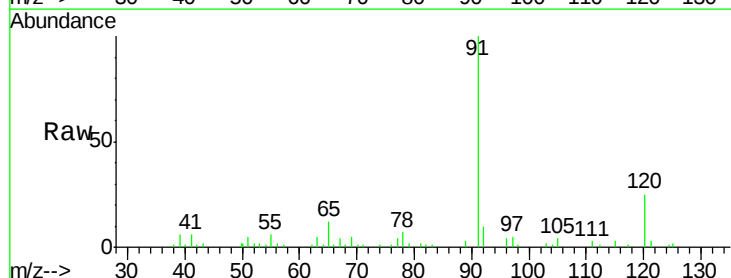
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 OK-03-010419RE

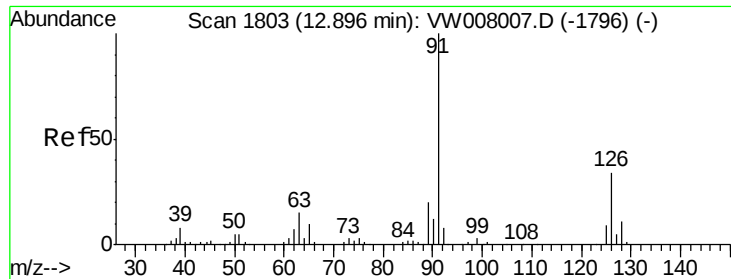
Tot Ion: 75 Resp: 20869  
 Ion Ratio Lower Upper  
 75 100  
 77 1.4 186.2 558.6#



#78  
 n-propylbenzene  
 Concen: 4.869 ug/l  
 RT: 12.81 min Scan# 1789  
 Delta R.T. -0.00 min  
 Lab File: VW008066.D  
 Acq: 07 Jan 2019 13:42

Tgt Ion: 91 Resp: 13039  
 Ion Ratio Lower Upper  
 91 100  
 120 23.8 11.5 34.5





#79

2-Chlorotoluene

Concen: 5.218 ug/l

RT: 12.87 min Scan# 1799

Delta R.T. -0.02 min

Lab File: VW008066.D

Acq: 07 Jan 2019 13:42

Instrument :

MSVOA\_W

ClientSampleId :

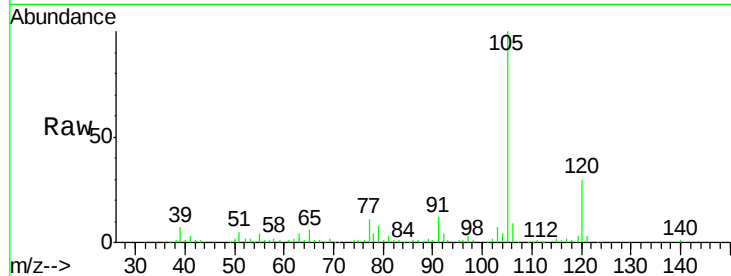
OK-03-010419RE

Tot Ion: 91 Resp: 8077

Ion Ratio Lower Upper

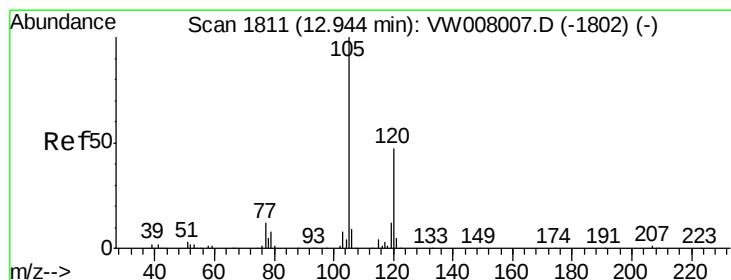
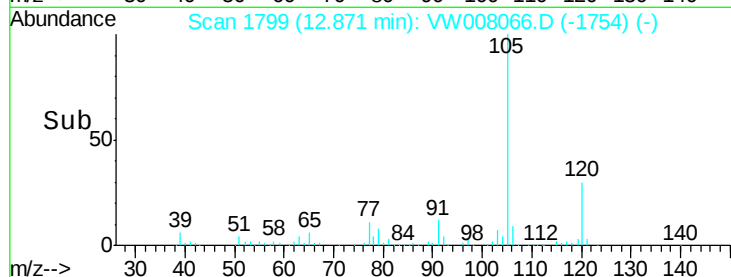
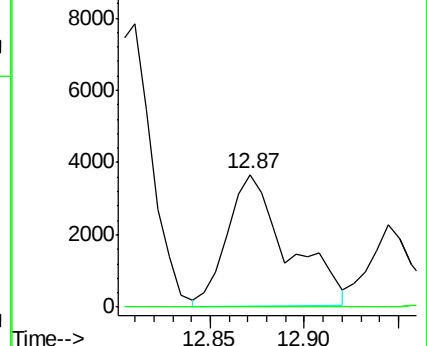
91 100

126 0.0 17.1 51.2#



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 125.90 (125.60 to 126.60): V



#80

1,3,5-Trimethylbenzene

Concen: 13.680 ug/l

RT: 12.95 min Scan# 1812

Delta R.T. 0.01 min

Lab File: VW008066.D

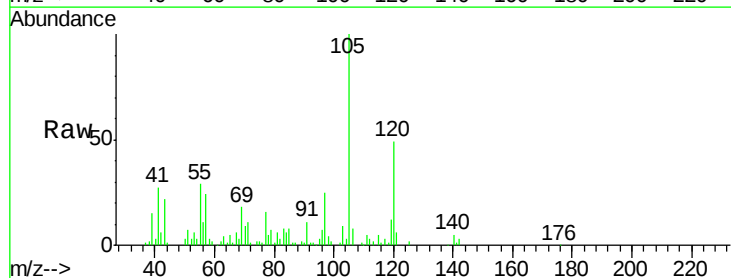
Acq: 07 Jan 2019 13:42

Tgt Ion:105 Resp: 27200

Ion Ratio Lower Upper

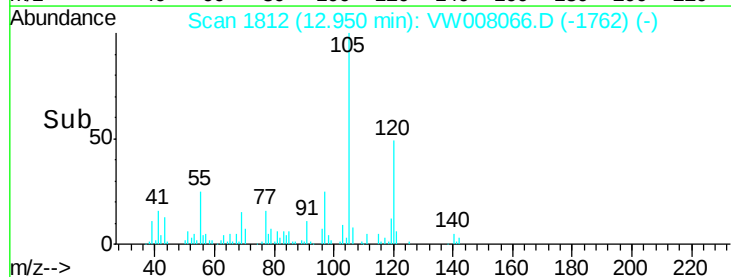
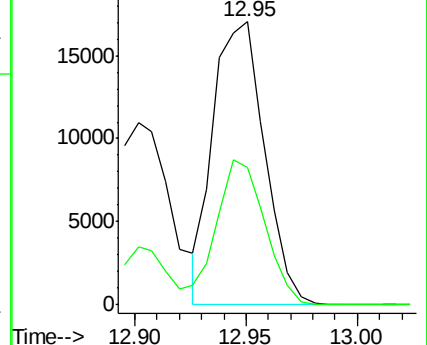
105 100

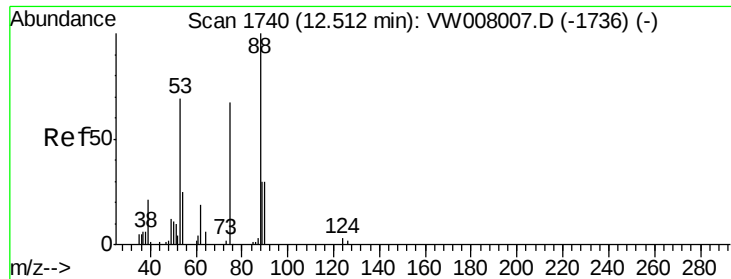
120 49.2 23.3 69.9



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

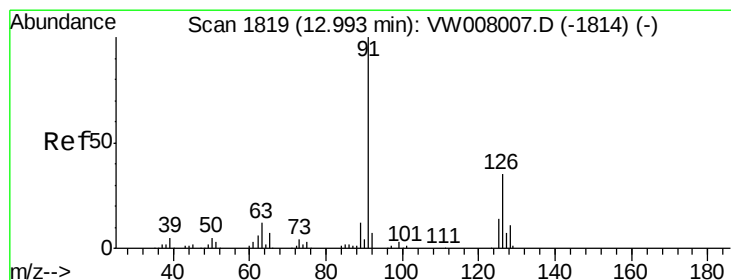
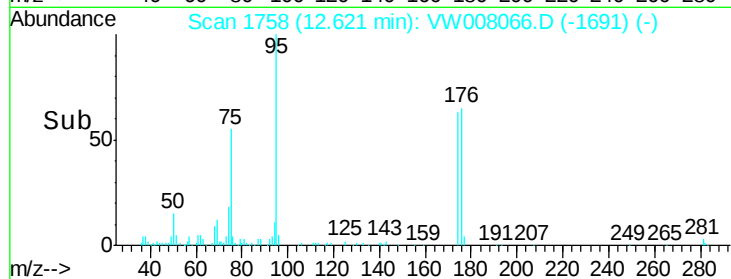
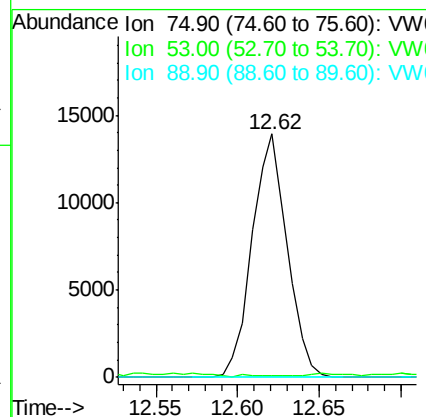
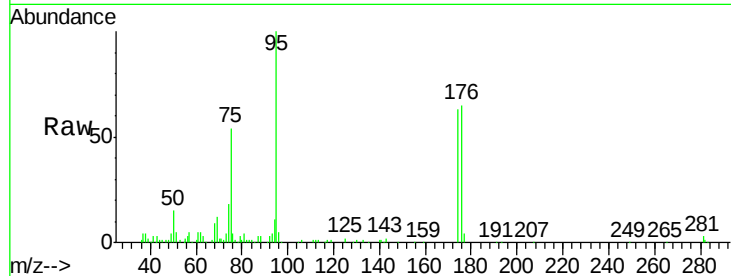




#81  
trans-1,4-Dichloro-2-butene  
Concen: 213.553 ug/l  
RT: 12.62 min Scan# 1758  
Delta R.T. 0.11 min  
Lab File: VW008066.D  
Acq: 07 Jan 2019 13:42

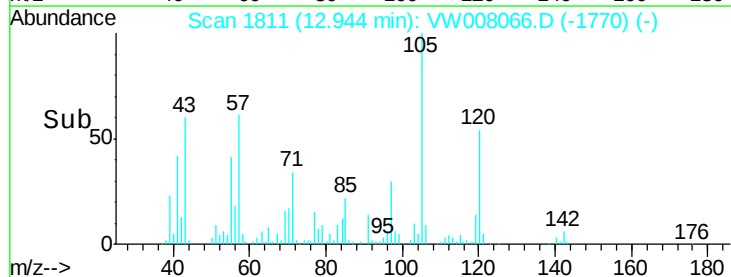
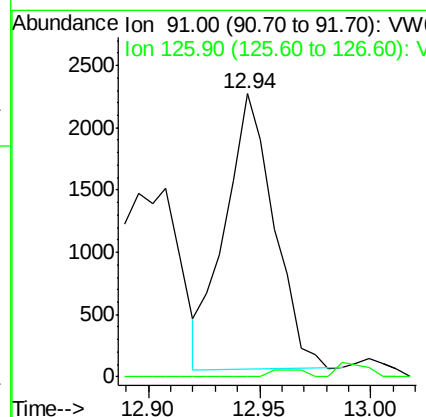
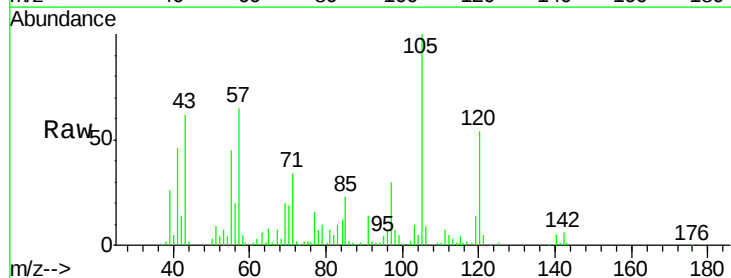
Instrument :  
MSVOA\_W  
ClientSampleId :  
OK-03-010419RE

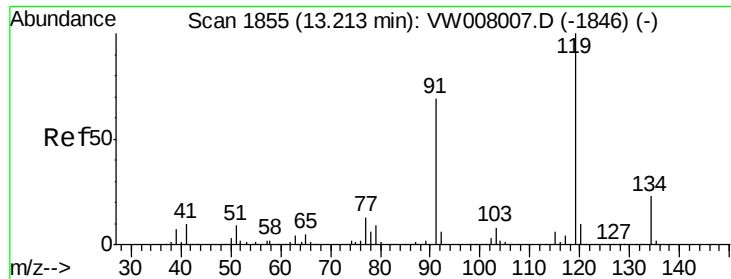
Tot Ion: 75 Resp: 20869  
Ion Ratio Lower Upper  
75 100  
53 0.3 87.6 131.4#  
89 0.0 42.2 63.2#



#82  
4-Chlorotoluene  
Concen: 2.047 ug/l  
RT: 12.94 min Scan# 1811  
Delta R.T. -0.05 min  
Lab File: VW008066.D  
Acq: 07 Jan 2019 13:42

Tgt Ion: 91 Resp: 3369  
Ion Ratio Lower Upper  
91 100  
126 1.9 16.7 50.1#

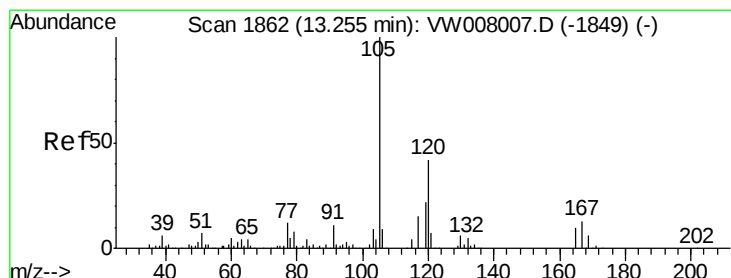
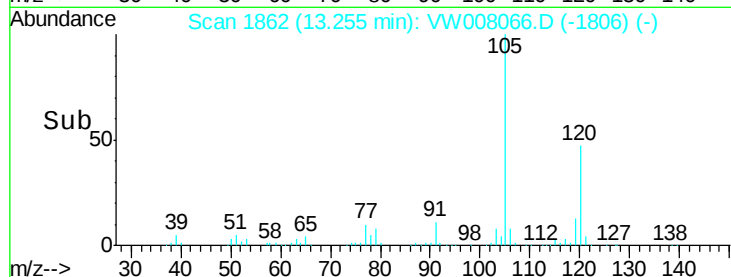
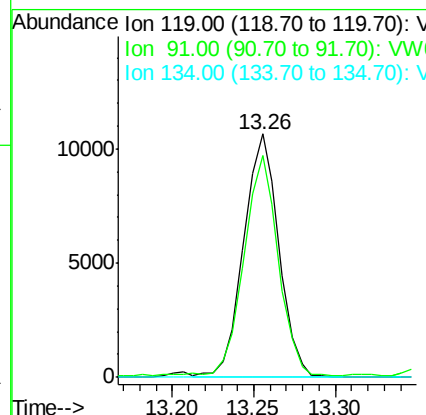
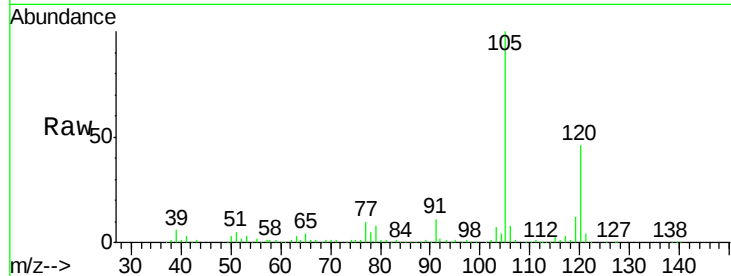




#83  
 tert-Butylbenzene  
 Concen: 9.229 ug/l  
 RT: 13.26 min Scan# 1862  
 Delta R.T. 0.04 min  
 Lab File: VW008066.D  
 Acq: 07 Jan 2019 13:42

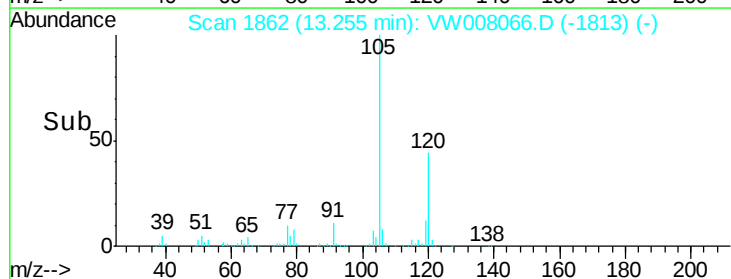
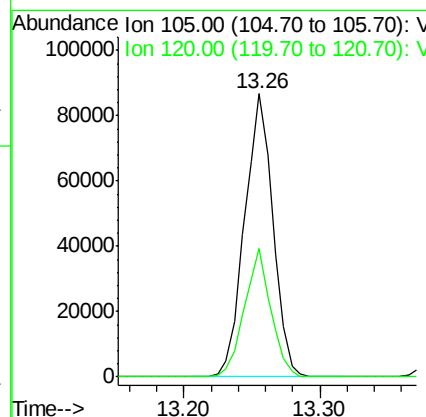
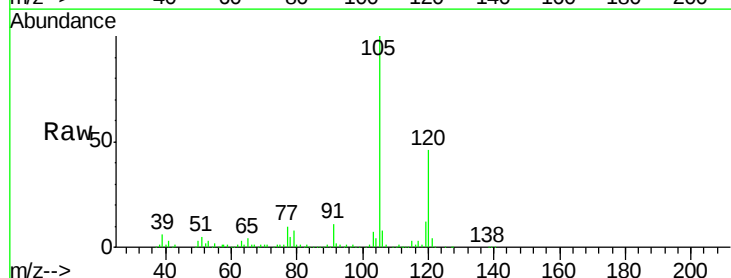
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 OK-03-010419RE

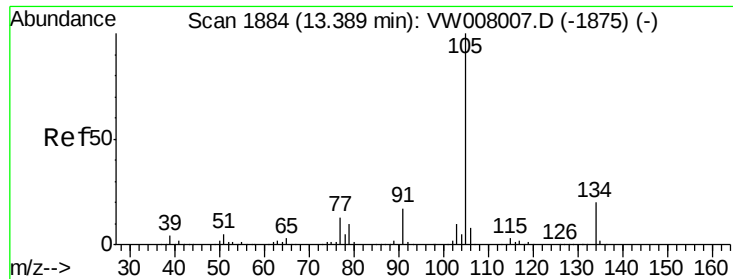
Tot Ion:119 Resp: 16055  
 Ion Ratio Lower Upper  
 119 100  
 91 87.5 34.7 104.1  
 134 0.0 11.5 34.4#



#84  
 1,2,4-Trimethylbenzene  
 Concen: 62.579 ug/l  
 RT: 13.26 min Scan# 1862  
 Delta R.T. -0.00 min  
 Lab File: VW008066.D  
 Acq: 07 Jan 2019 13:42

Tgt Ion:105 Resp: 126030  
 Ion Ratio Lower Upper  
 105 100  
 120 42.4 21.5 64.5

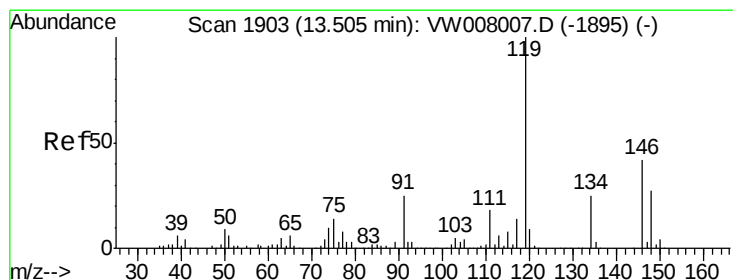
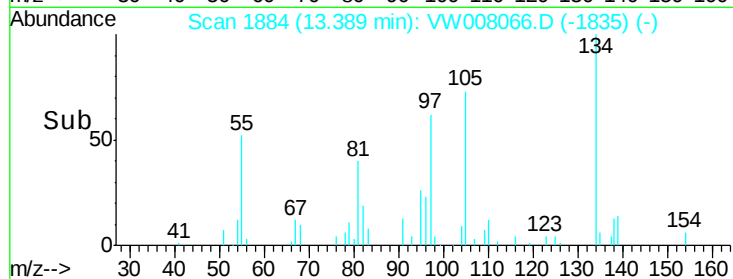
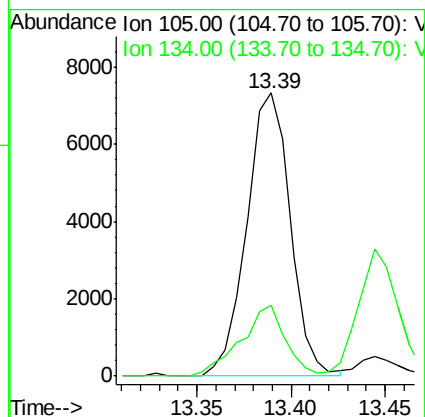
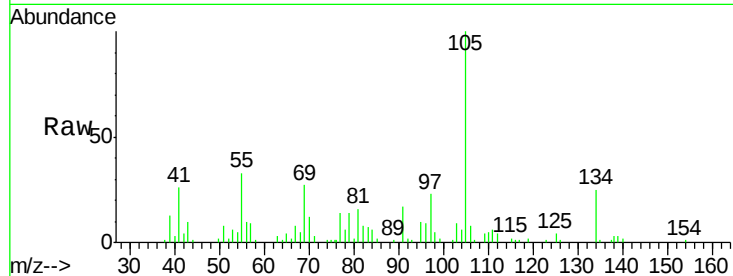




#85  
 sec-Butylbenzene  
 Concen: 4.909 ug/l  
 RT: 13.39 min Scan# 1884  
 Delta R.T. -0.00 min  
 Lab File: VW008066.D  
 Acq: 07 Jan 2019 13:42

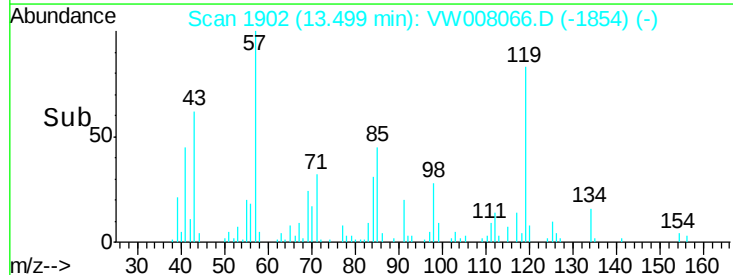
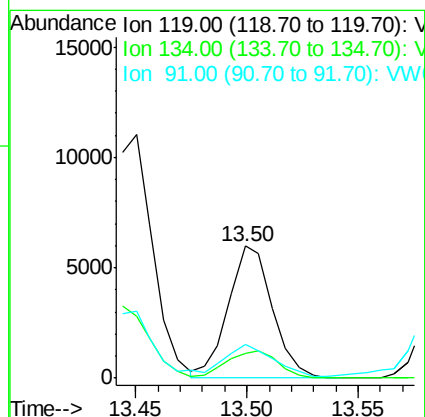
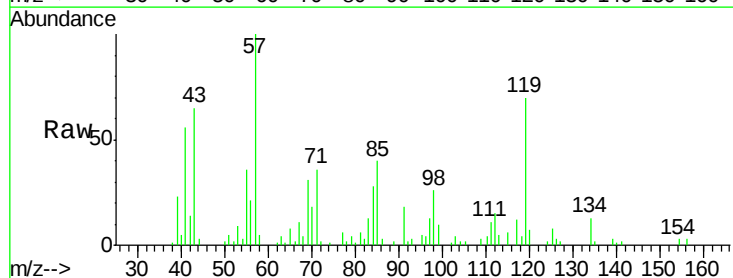
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 OK-03-010419RE

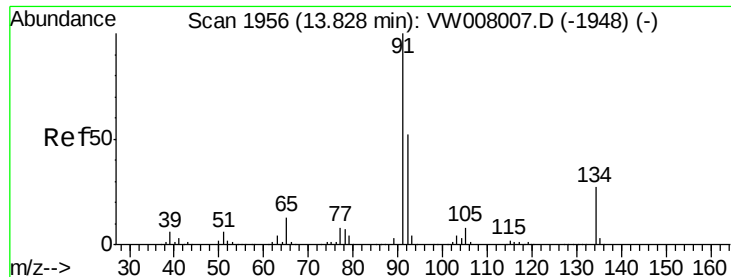
Tot Ion:105 Resp: 11747  
 Ion Ratio Lower Upper  
 105 100  
 134 25.8 9.7 28.9



#86  
 p-Isopropyltoluene  
 Concen: 3.837 ug/l  
 RT: 13.50 min Scan# 1902  
 Delta R.T. -0.01 min  
 Lab File: VW008066.D  
 Acq: 07 Jan 2019 13:42

Tgt Ion:119 Resp: 8283  
 Ion Ratio Lower Upper  
 119 100  
 134 23.6 12.5 37.5  
 91 25.2 13.1 39.3

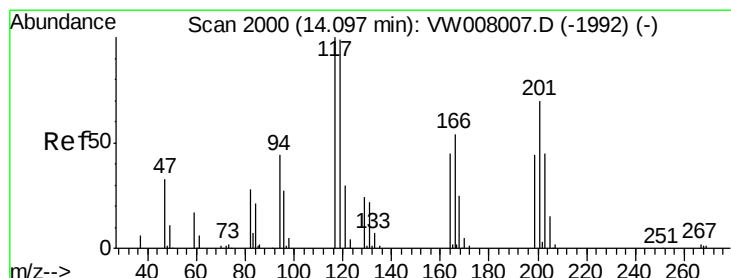
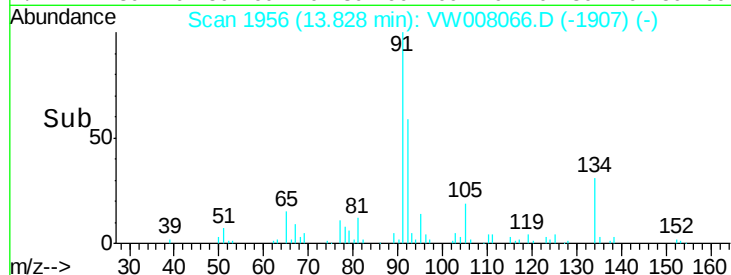
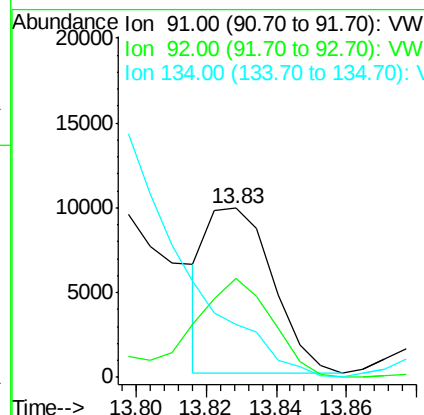
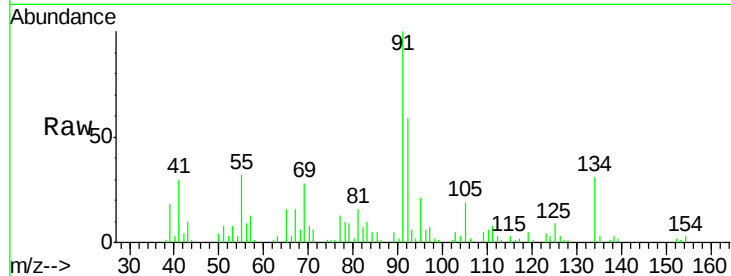




#89  
n-Butylbenzene  
Concen: 6.379 ug/l  
RT: 13.83 min Scan# 1956  
Delta R.T. -0.00 min  
Lab File: VW008066.D  
Acq: 07 Jan 2019 13:42

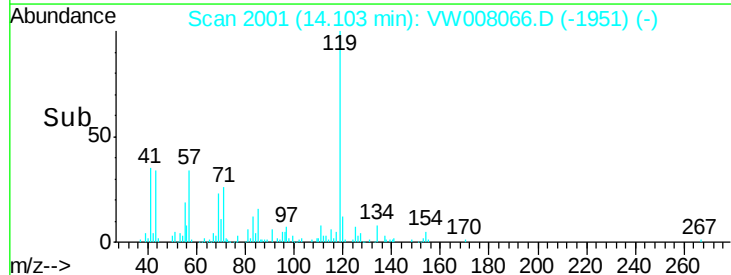
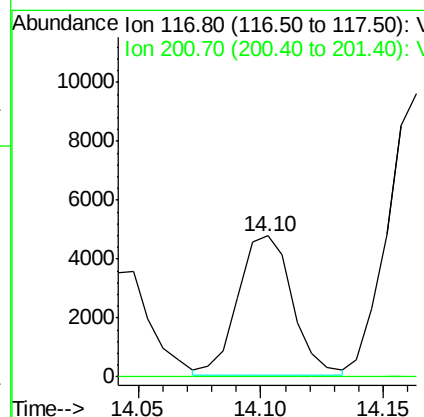
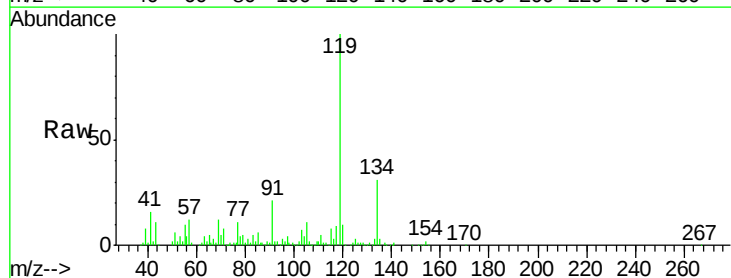
Instrument :  
MSVOA\_W  
ClientSampleId :  
OK-03-010419RE

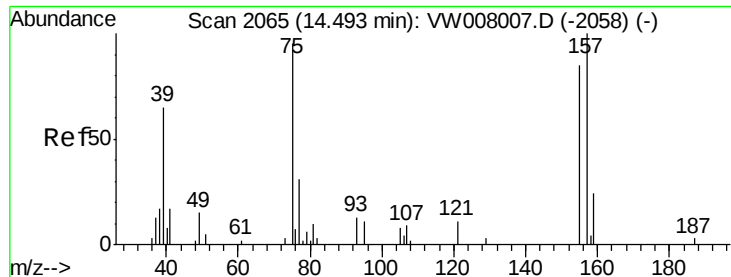
Tot Ion: 91 Resp: 12594  
Ion Ratio Lower Upper  
91 100  
92 81.7 26.4 79.2#  
134 0.0 13.4 40.2#



#90  
Hexachloroethane  
Concen: 19.557 ug/l  
RT: 14.10 min Scan# 2001  
Delta R.T. 0.01 min  
Lab File: VW008066.D  
Acq: 07 Jan 2019 13:42

Tgt Ion: 117 Resp: 7325  
Ion Ratio Lower Upper  
117 100  
201 0.0 37.1 111.5#





#92

1,2-Dibromo-3-Chloropropane

Concen: 7.024 ug/l

RT: 14.51 min Scan# 2067

Delta R.T. 0.01 min

Lab File: VW008066.D

Acq: 07 Jan 2019 13:42

Instrument :

MSVOA\_W

ClientSampleId :

OK-03-010419RE

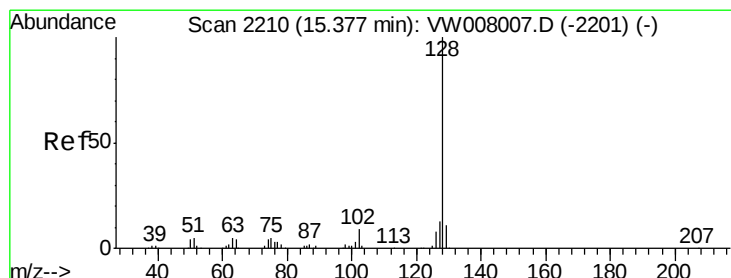
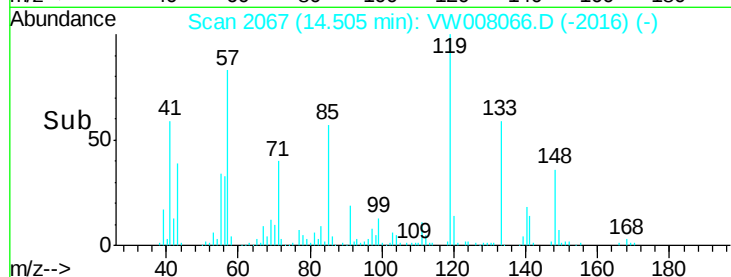
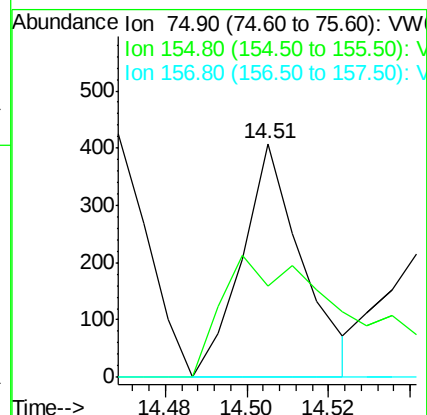
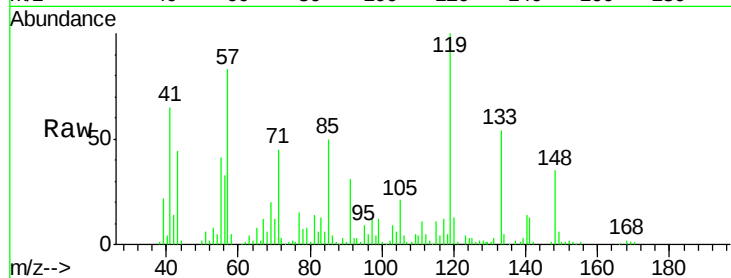
Tot Ion: 75 Resp: 419

Ion Ratio Lower Upper

75 100

155 107.4 42.4 127.1

157 0.0 52.3 156.8#



#95

Naphthalene

Concen: 58.948 ug/l

RT: 15.37 min Scan# 2209

Delta R.T. -0.01 min

Lab File: VW008066.D

Acq: 07 Jan 2019 13:42

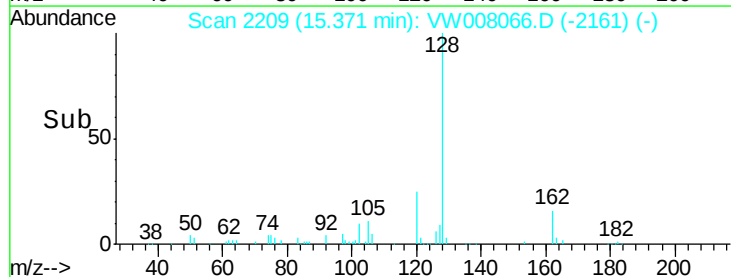
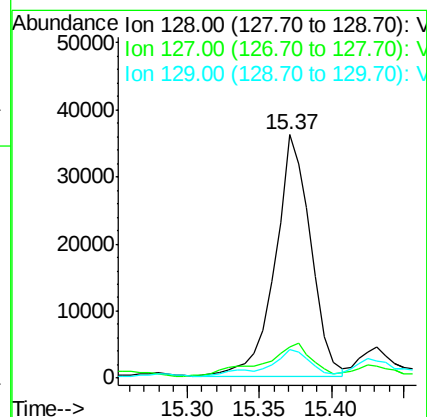
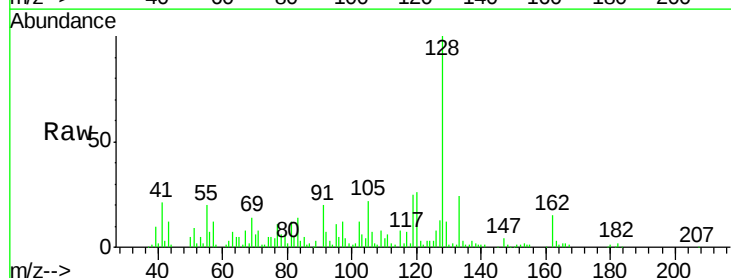
Tgt Ion:128 Resp: 62072

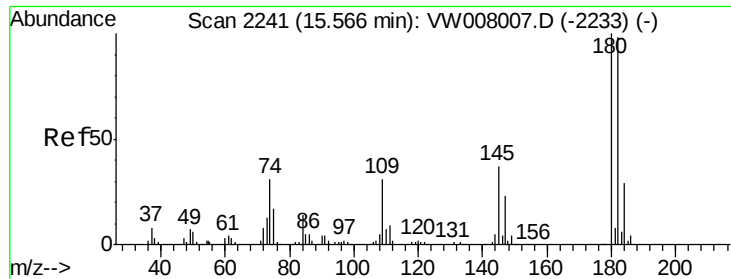
Ion Ratio Lower Upper

128 100

127 18.3 10.8 16.2#

129 13.3 8.8 13.2#

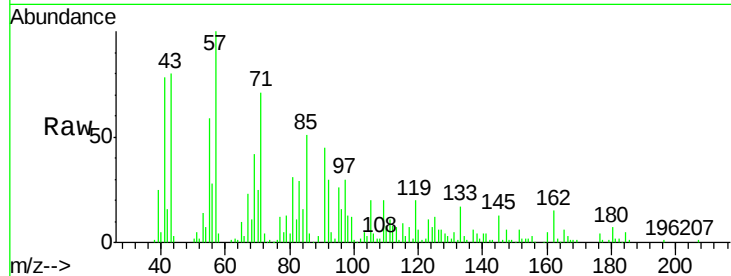




#96  
 1,2,3-Trichlorobenzene  
 Concen: 3.039 ug/l  
 RT: 15.58 min Scan# 2244  
 Delta R.T. 0.02 min  
 Lab File: VW008066.D  
 Acq: 07 Jan 2019 13:42

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 OK-03-010419RE

| Tot Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 180     | 100   |       |        |
| 182     | 14.5  | 47.9  | 143.8# |
| 145     | 0.0   | 18.7  | 56.1#  |



Abundance

Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

