

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW091619\  
 Data File : VW013037.D  
 Acq On : 16 Sep 2019 13:24  
 Operator : SY/VA  
 Sample : K4787-11RE  
 Misc : 6.66G/5ML/MSVOA W/SOIL  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :

Quant Time: Sep 16 14:15:23 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W091419S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Sep 13 17:26:01 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.95  | 168  | 254552   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.84  | 114  | 384710   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 248632   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.55 | 152  | 42579    | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 8.31   | 65  | 127599   | 54.28 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 108.56% |      |
| 35) Dibromofluoromethane  | 7.88   | 113 | 109302   | 52.36 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 104.72% |      |
| 50) Toluene-d8            | 10.32  | 98  | 409428   | 50.12 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 100.24% |      |
| 62) 4-Bromofluorobenzene  | 12.62  | 95  | 85573    | 29.13 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 58.26%  |      |

## Target Compounds

|                                |       |     |       |           |        | Qvalue |
|--------------------------------|-------|-----|-------|-----------|--------|--------|
| 2) Dichlorodifluoromethane     | 1.99  | 85  | 94    | Below Cal | #      | 44     |
| 3) Chloromethane               | 2.20  | 50  | 359   | Below Cal | #      | 41     |
| 11) Tert butyl alcohol         | 5.12  | 59  | 16174 | 88.039    | ug/l # | 73     |
| 13) Acrolein                   | 3.88  | 56  | 48    | Below Cal | #      | 15     |
| 16) Acetone                    | 4.14  | 43  | 39640 | 63.090    | ug/l   | 97     |
| 17) Carbon Disulfide           | 4.37  | 76  | 17008 | 4.857     | ug/l # | 93     |
| 20) Methylene Chloride         | 4.92  | 84  | 13600 | 2.202     | ug/l   | 96     |
| 25) 2-Butanone                 | 7.18  | 43  | 12756 | 17.064    | ug/l   | 93     |
| 26) 2,2-Dichloropropane        | 7.16  | 77  | 3676  | Below Cal | #      | 56     |
| 27) cis-1,2-Dichloroethene     | 7.17  | 96  | 3333  | 1.479     | ug/l   | 81     |
| 29) Tetrahydrofuran            | 7.52  | 42  | 439   | 1.031     | ug/l # | 43     |
| 31) Cyclohexane                | 7.95  | 56  | 5914  | Below Cal | #      | 1      |
| 36) 1,1-Dichloropropene        | 7.94  | 75  | 19629 | 6.385     | ug/l # | 51     |
| 37) Ethyl Acetate              | 7.18  | 43  | 12756 | 7.817     | ug/l # | 71     |
| 38) Carbon Tetrachloride       | 7.95  | 117 | 24769 | 7.862     | ug/l # | 13     |
| 40) Benzene                    | 8.32  | 78  | 23697 | 2.761     | ug/l   | 98     |
| 49) 1,4-Dioxane                | 9.49  | 88  | 34    | 1.857     | ug/l # | 1      |
| 52) Toluene                    | 10.38 | 92  | 7905  | 1.450     | ug/l   | 99     |
| 59) 2-Hexanone                 | 10.97 | 43  | 1185  | 1.052     | ug/l   | 76     |
| 60) Dibromochloromethane       | 10.86 | 129 | 2140  | 1.064     | ug/l # | 12     |
| 64) Tetrachloroethene          | 10.86 | 164 | 2830  | 1.913     | ug/l   | 96     |
| 68) m/p-Xylenes                | 11.84 | 106 | 6436  | 2.154     | ug/l   | 96     |
| 69) o-Xylene                   | 12.16 | 106 | 3881  | 1.385     | ug/l   | 92     |
| 74) N-amyl acetate             | 12.24 | 43  | 2804  | 3.862     | ug/l # | 55     |
| 76) 1,2,3-Trichloropropane     | 12.62 | 75  | 43968 | 117.890   | ug/l # | 100    |
| 78) n-propylbenzene            | 12.80 | 91  | 5362  | 1.615     | ug/l   | 95     |
| 80) 1,3,5-Trimethylbenzene     | 12.94 | 105 | 4024  | 1.685     | ug/l   | 96     |
| 81) trans-1,4-Dichloro-2-buten | 12.62 | 75  | 43968 | 267.431   | ug/l # | 8      |
| 83) tert-Butylbenzene          | 13.20 | 119 | 3188  | 1.493     | ug/l   | 95     |
| 84) 1,2,4-Trimethylbenzene     | 13.25 | 105 | 12940 | 5.485     | ug/l   | 99     |
| 85) sec-Butylbenzene           | 13.38 | 105 | 12664 | 4.352     | ug/l   | 91     |
| 87) 1,3-Dichlorobenzene        | 13.58 | 146 | 18066 | 14.036    | ug/l   | 95     |
| 88) 1,4-Dichlorobenzene        | 13.58 | 146 | 18066 | 14.283    | ug/l   | 94     |
| 89) n-Butylbenzene             | 13.82 | 91  | 2869  | 1.139     | ug/l # | 74     |

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Sample : K4787-11RE  
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ALS Vial : 8 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :

Quant Time: Sep 16 14:15:23 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W091419S.M  
Quant Title : SW846 8260  
QLast Update : Fri Sep 13 17:26:01 2019  
Response via : Initial Calibration

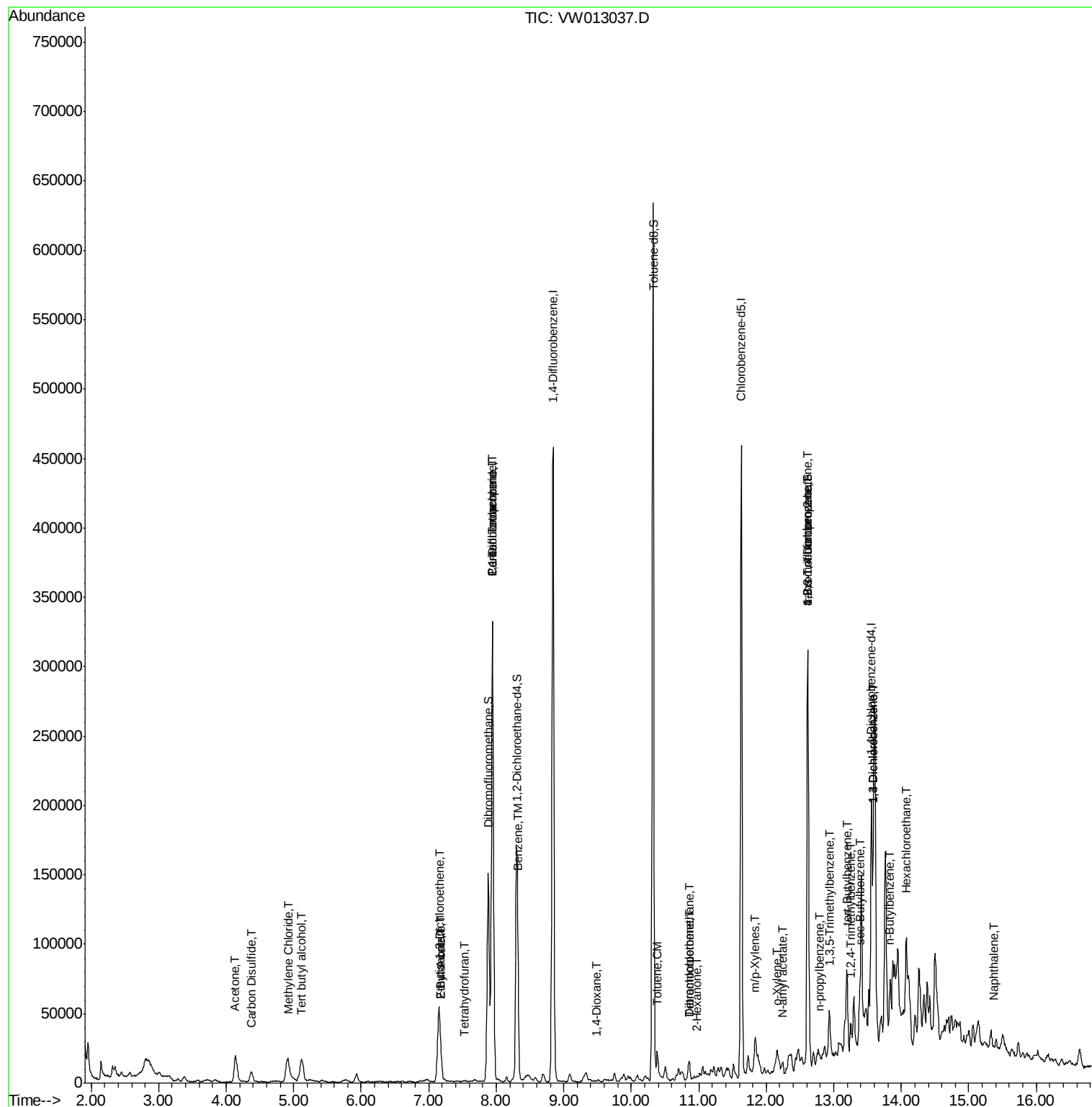
| Internal Standards   | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|----------------------|-------|------|----------|-------|--------|----------|
| 90) Hexachloroethane | 14.07 | 117  | 721      | 1.506 | ug/l # | 4        |
| 95) Naphthalene      | 15.36 | 128  | 2964     | 2.198 | ug/l # | 92       |

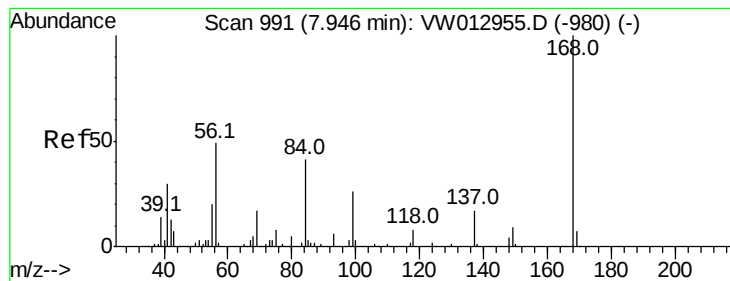
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.00 min

Lab File: VW013037.D

Acq: 16 Sep 2019 13:24

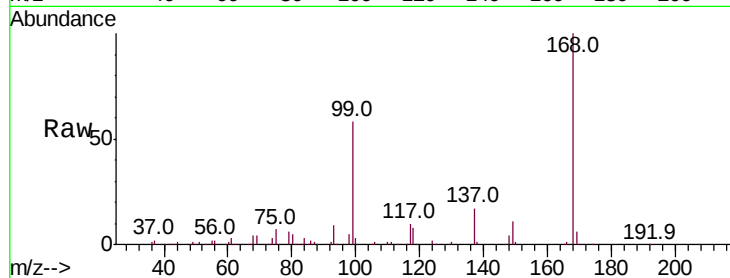
Instrument :  
MSVOA\_W  
ClientSampled :

Tot Ion:168 Resp: 254552

Ion Ratio Lower Upper

168 100

99 58.3 46.2 69.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

120000

100000

80000

60000

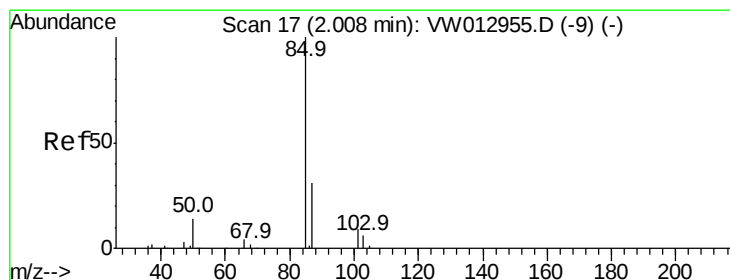
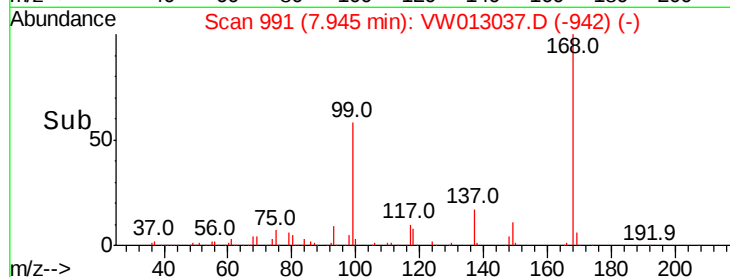
40000

20000

0

7.90 8.00

Time-->



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.99 min Scan# 14

Delta R.T. -0.02 min

Lab File: VW013037.D

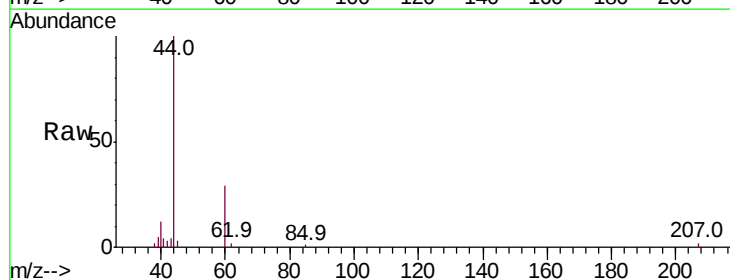
Acq: 16 Sep 2019 13:24

Tgt Ion: 85 Resp: 94

Ion Ratio Lower Upper

85 100

87 0.0 15.4 46.4#



Abundance Ion 84.90 (84.60 to 85.60): VW

Ion 86.90 (86.60 to 87.60): VW

1.99

80

60

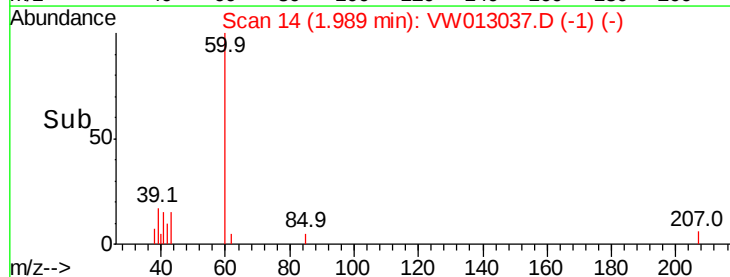
40

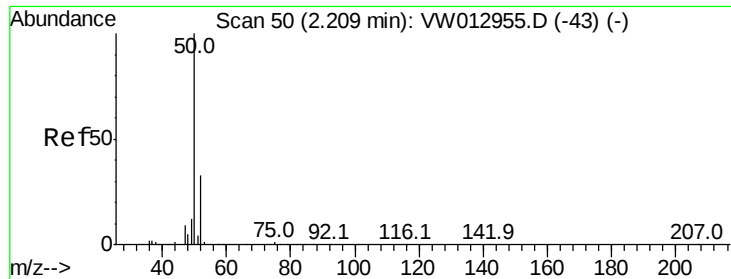
20

0

1.96 1.98 2.00 2.02

Time-->





#3

Chloromethane

Concen: Below Cal

RT: 2.20 min Scan# 49

Delta R.T. -0.01 min

Lab File: VW013037.D

Acq: 16 Sep 2019 13:24

Instrument :

MSVOA\_W

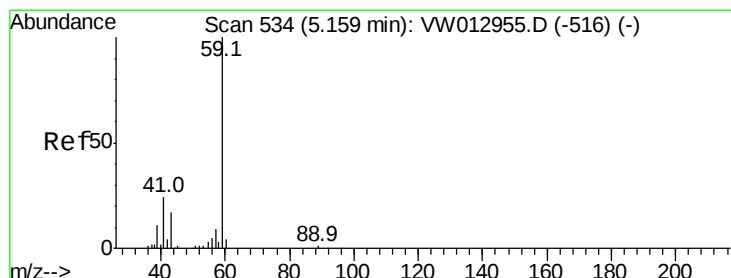
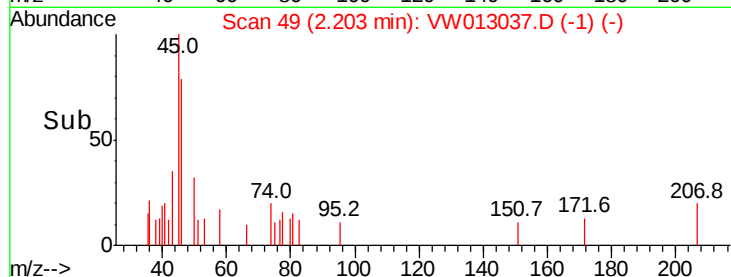
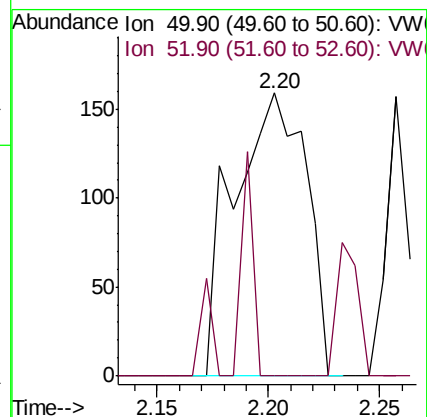
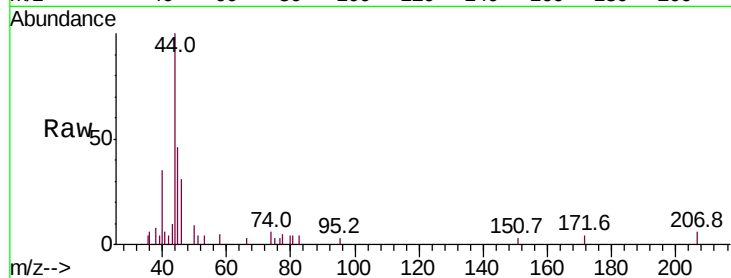
ClientSampleId :

Tot Ion: 50 Resp: 359

Ion Ratio Lower Upper

50 100

52 0.0 26.6 39.8#



#11

Tert butyl alcohol

Concen: 88.039 ug/l

RT: 5.12 min Scan# 527

Delta R.T. -0.04 min

Lab File: VW013037.D

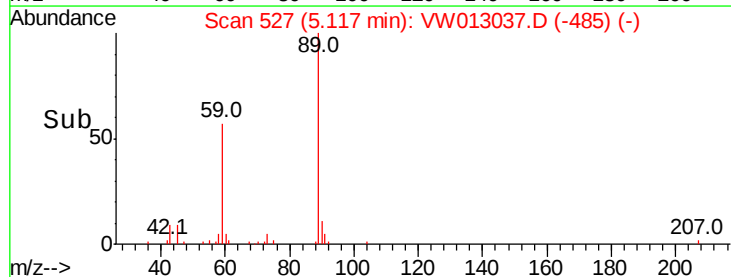
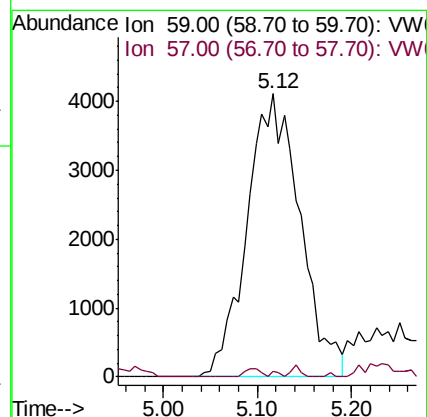
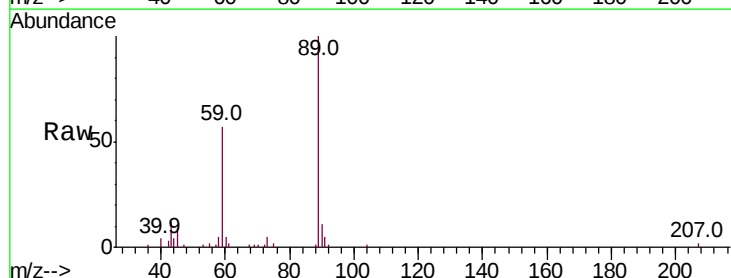
Acq: 16 Sep 2019 13:24

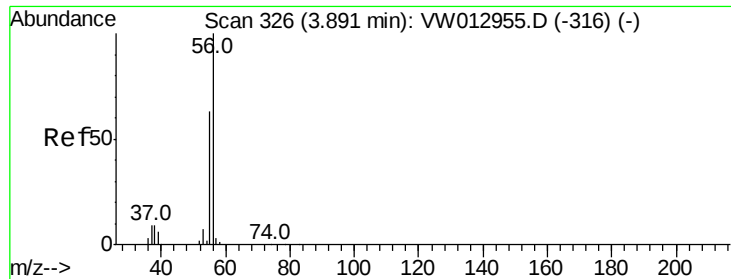
Tgt Ion: 59 Resp: 16174

Ion Ratio Lower Upper

59 100

57 0.3 8.5 12.7#





#13

Acrolein

Concen: Below Cal

RT: 3.88 min Scan# 324

Delta R.T. -0.01 min

Lab File: VW013037.D

Acq: 16 Sep 2019 13:24

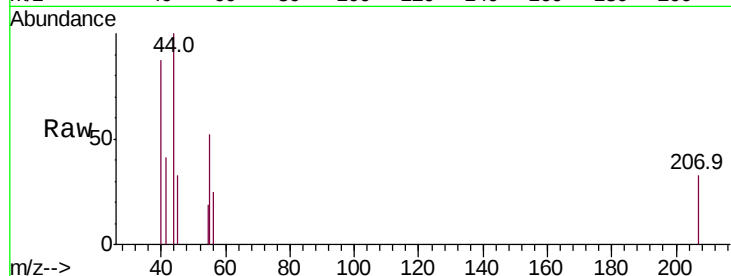
Instrument :  
MSVOA\_W  
ClientSampleId :

Tot Ion: 56 Resp: 48

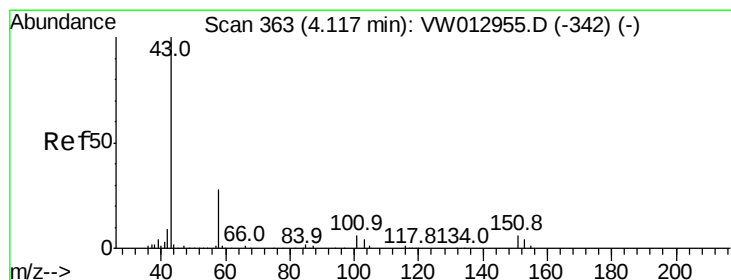
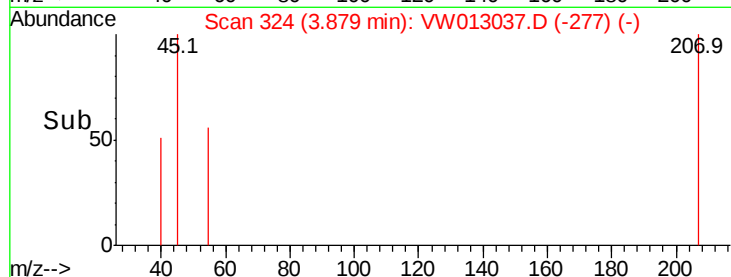
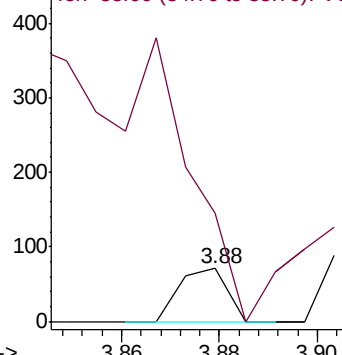
Ion Ratio Lower Upper

56 100

55 0.0 55.8 83.8#



Abundance Ion 56.00 (55.70 to 56.70): VW  
Ion 55.00 (54.70 to 55.70): VW



#16

Acetone

Concen: 63.090 ug/l

RT: 4.14 min Scan# 366

Delta R.T. 0.02 min

Lab File: VW013037.D

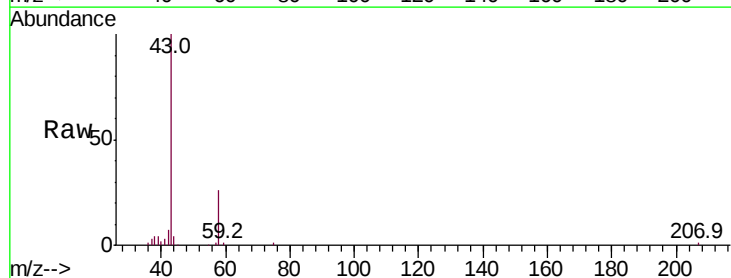
Acq: 16 Sep 2019 13:24

Tgt Ion: 43 Resp: 39640

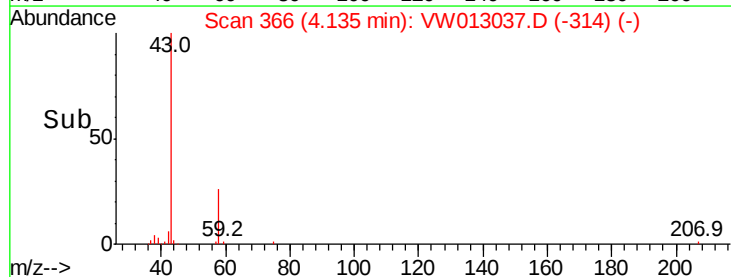
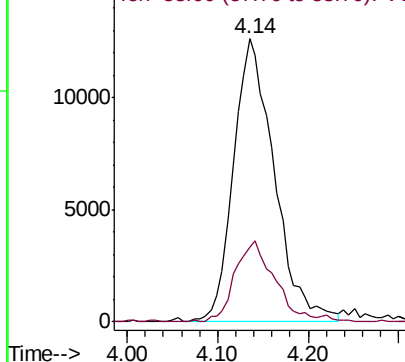
Ion Ratio Lower Upper

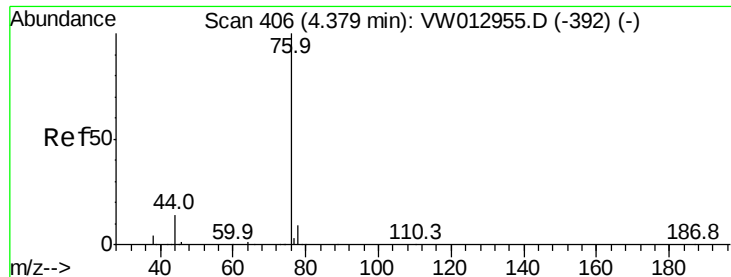
43 100

58 26.3 22.3 33.5



Abundance Ion 43.00 (42.70 to 43.70): VW  
Ion 58.00 (57.70 to 58.70): VW

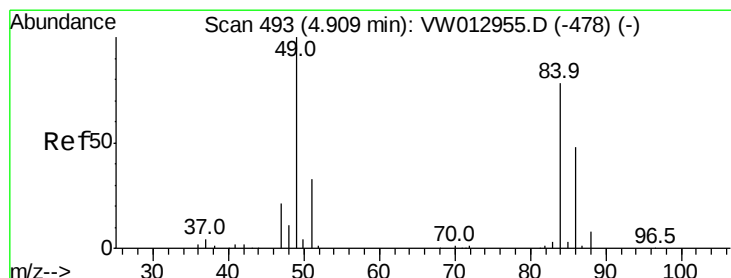
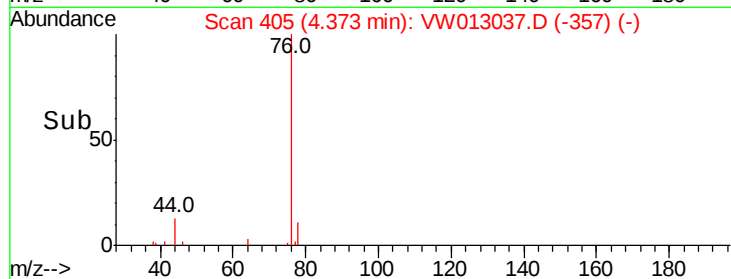
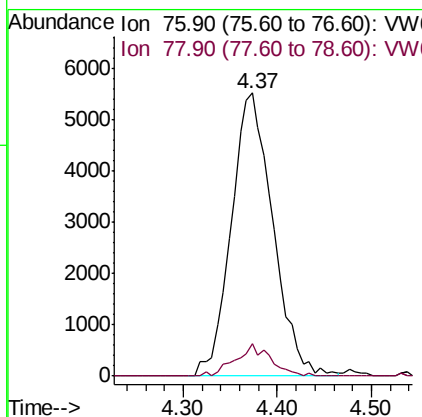
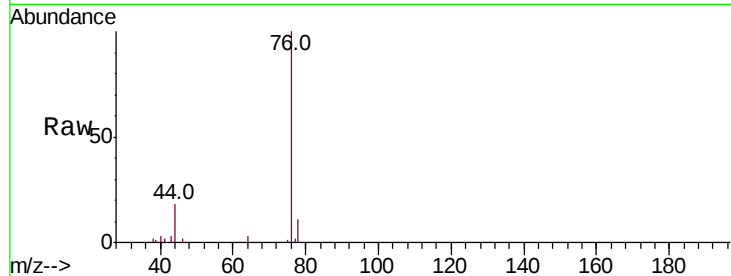




#17  
Carbon Disulfide  
Concen: 4.857 ug/l  
RT: 4.37 min Scan# 405  
Delta R.T. -0.01 min  
Lab File: VW013037.D  
Acq: 16 Sep 2019 13:24

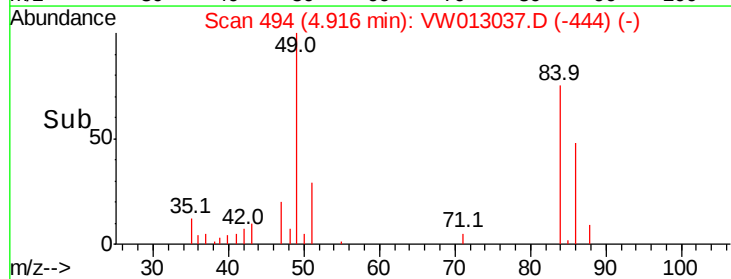
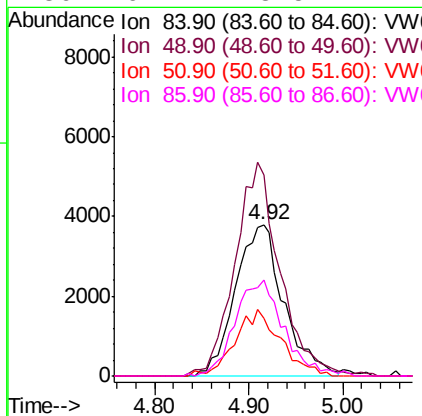
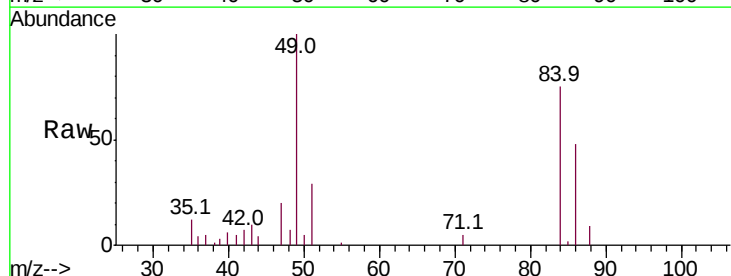
Instrument :  
MSVOA\_W  
ClientSampleId :

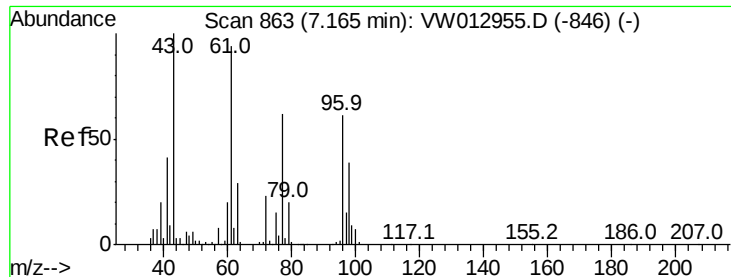
Tot Ion: 76 Resp: 17008  
Ion Ratio Lower Upper  
76 100  
78 11.3 7.0 10.4#



#20  
Methylene Chloride  
Concen: 2.202 ug/l  
RT: 4.92 min Scan# 494  
Delta R.T. 0.01 min  
Lab File: VW013037.D  
Acq: 16 Sep 2019 13:24

Tgt Ion: 84 Resp: 13600  
Ion Ratio Lower Upper  
84 100  
49 131.3 102.0 153.0  
51 38.1 34.0 51.0  
86 62.4 48.5 72.7





#25

2-Butanone

Concen: 17.064 ug/l

RT: 7.18 min Scan# 866

Delta R.T. 0.02 min

Lab File: VW013037.D

Acq: 16 Sep 2019 13:24

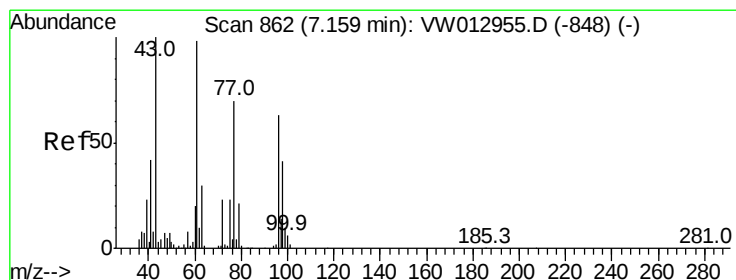
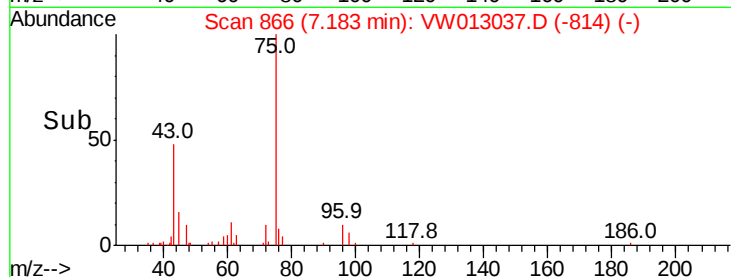
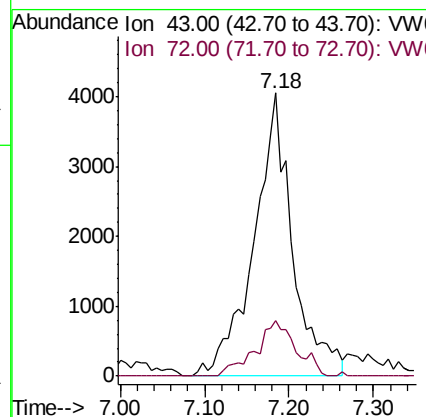
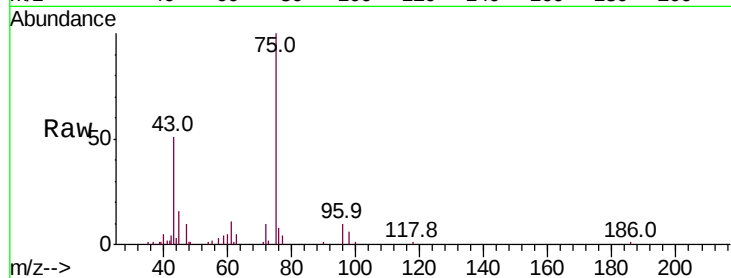
Instrument :  
MSVOA\_W  
ClientSampled :

Tot Ion: 43 Resp: 12756

Ion Ratio Lower Upper

43 100

72 19.6 18.2 27.4



#26

2,2-Dichloropropane

Concen: Below Cal

RT: 7.16 min Scan# 862

Delta R.T. 0.00 min

Lab File: VW013037.D

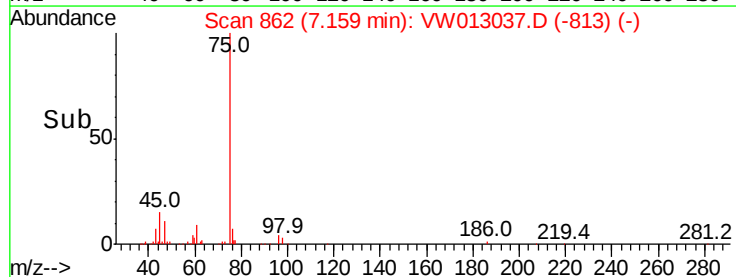
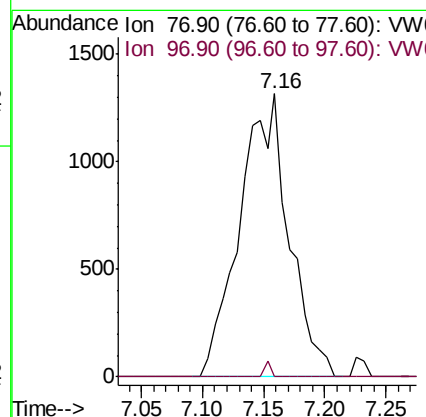
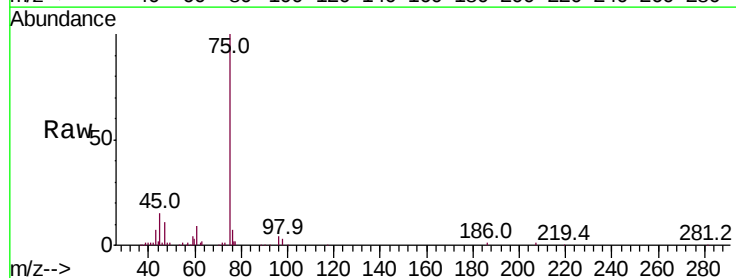
Acq: 16 Sep 2019 13:24

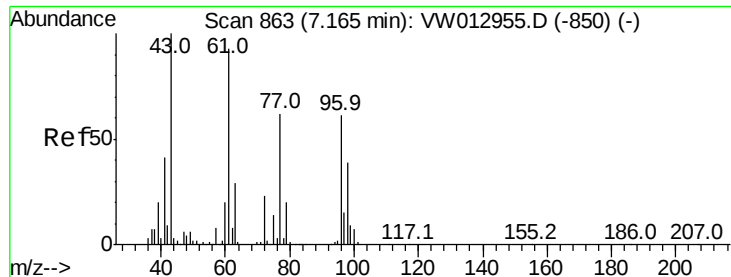
Tgt Ion: 77 Resp: 3676

Ion Ratio Lower Upper

77 100

97 0.7 10.7 32.1#



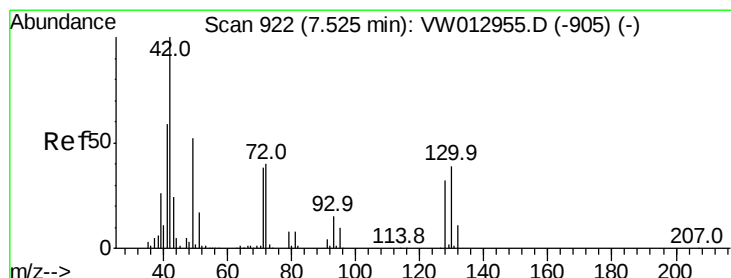
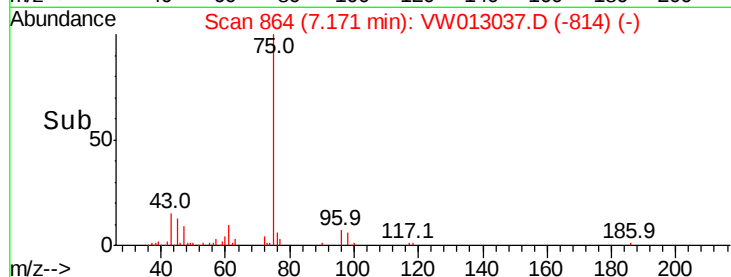
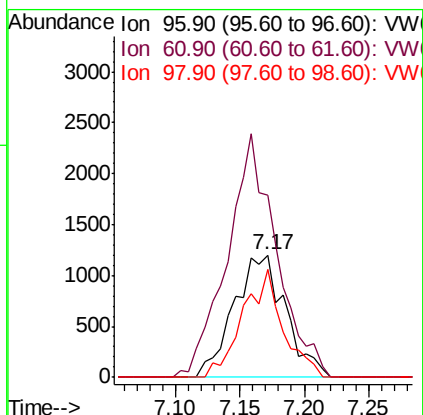
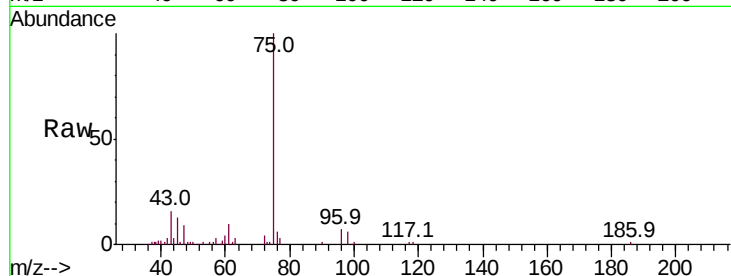


#27

cis-1,2-Dichloroethene  
Concen: 1.479 ug/l  
RT: 7.17 min Scan# 864  
Delta R.T. 0.01 min  
Lab File: VW013037.D  
Acq: 16 Sep 2019 13:24

Instrument :  
MSVOA\_W  
ClientSampled :

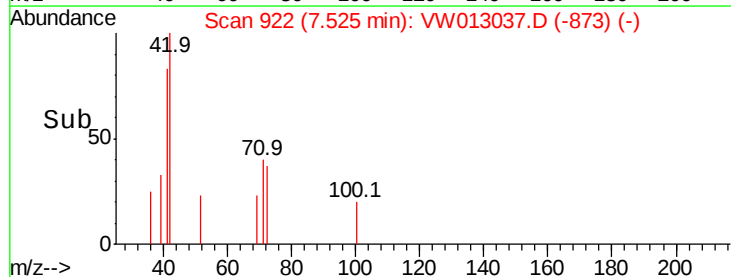
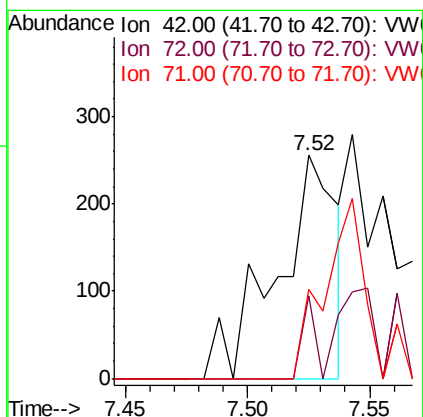
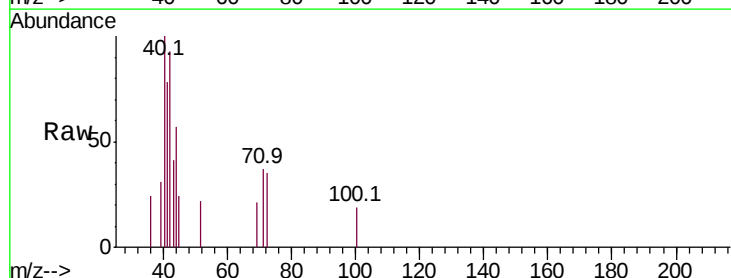
Tot Ion: 96 Resp: 3333  
Ion Ratio Lower Upper  
96 100  
61 190.2 0.0 315.4  
98 68.0 0.0 131.0

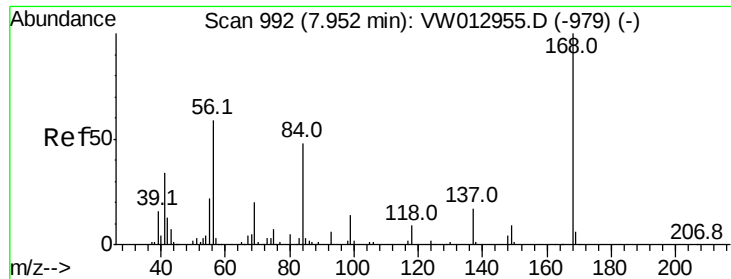


#29

Tetrahydrofuran  
Concen: 1.031 ug/l  
RT: 7.52 min Scan# 922  
Delta R.T. -0.00 min  
Lab File: VW013037.D  
Acq: 16 Sep 2019 13:24

Tgt Ion: 42 Resp: 439  
Ion Ratio Lower Upper  
42 100  
72 8.0 31.4 47.0#  
71 0.0 29.8 44.8#

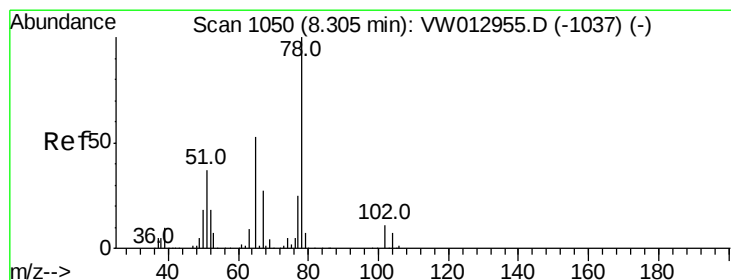
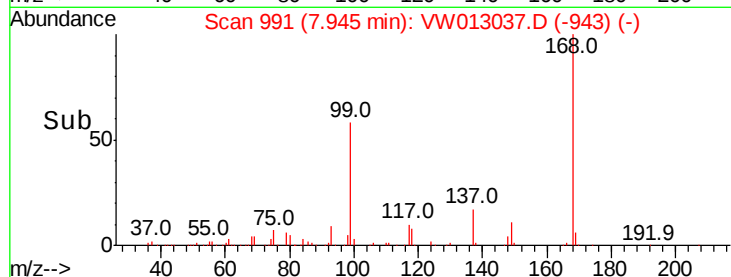
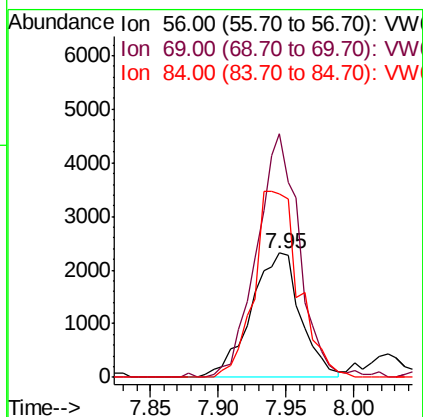
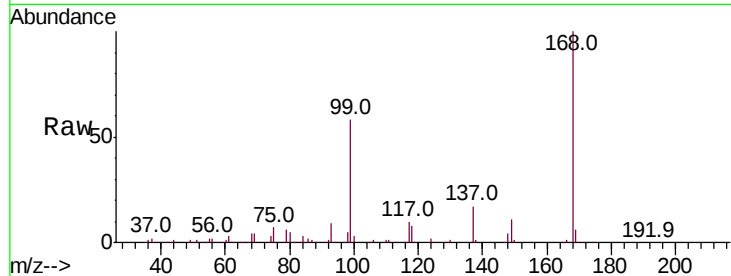




#31  
Cyclohexane  
Concen: Below Cal  
RT: 7.95 min Scan# 991  
Delta R.T. -0.01 min  
Lab File: VW013037.D  
Acq: 16 Sep 2019 13:24

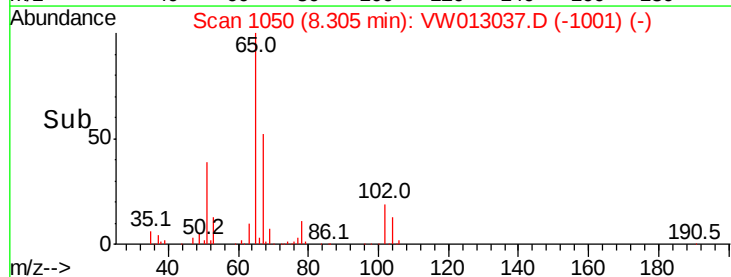
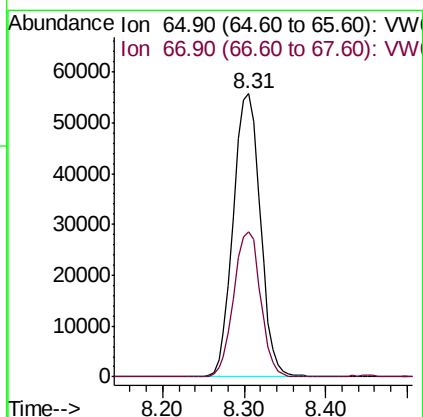
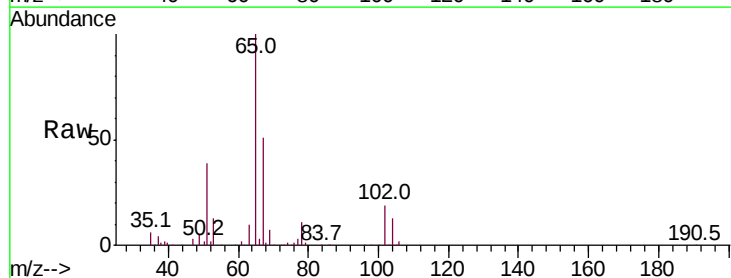
Instrument :  
MSVOA\_W  
ClientSampled :

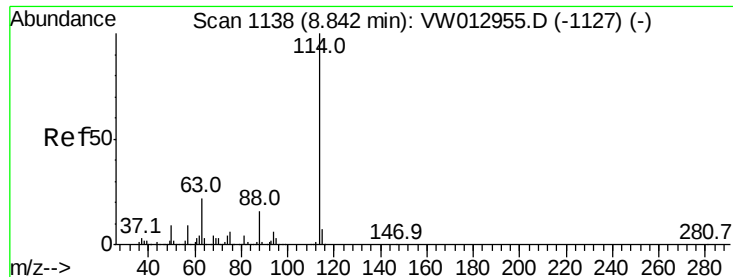
Tot Ion: 56 Resp: 5914  
Ion Ratio Lower Upper  
56 100  
69 192.9 27.0 40.6#  
84 147.8 66.2 99.2#



#33  
1,2-Dichloroethane-d4  
Concen: 54.275 ug/l  
RT: 8.31 min Scan# 1050  
Delta R.T. -0.00 min  
Lab File: VW013037.D  
Acq: 16 Sep 2019 13:24

Tgt Ion: 65 Resp: 127599  
Ion Ratio Lower Upper  
65 100  
67 50.9 0.0 101.2

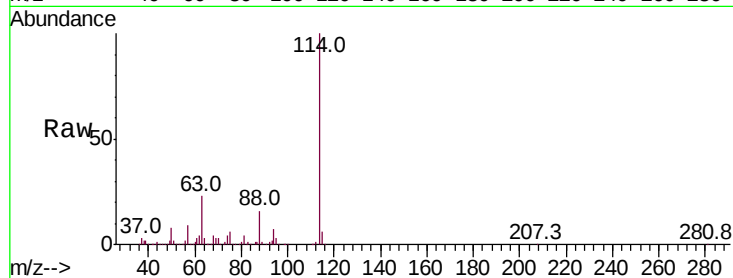




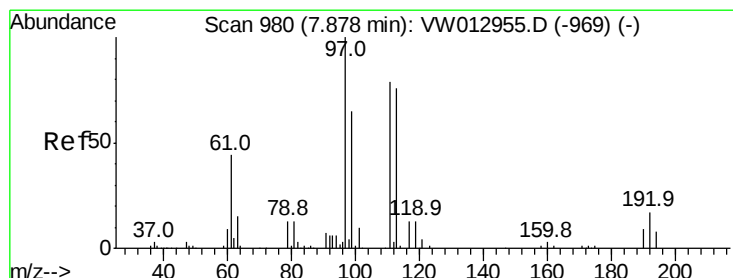
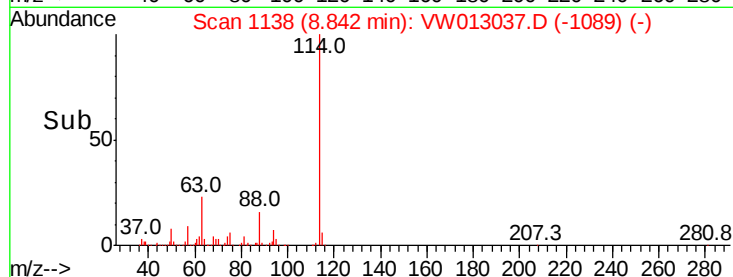
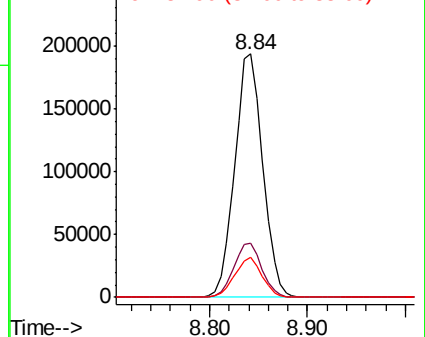
#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.84 min Scan# 1138  
 Delta R.T. -0.00 min  
 Lab File: VW013037.D  
 Acq: 16 Sep 2019 13:24

Instrument :  
 MSVOA\_W  
 ClientSampleId :

Tot Ion:114 Resp: 384710  
 Ion Ratio Lower Upper  
 114 100  
 63 22.5 0.0 43.4  
 88 16.4 0.0 31.6

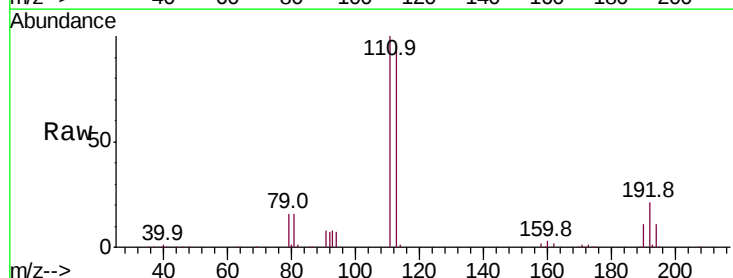


Abundance Ion 113.90 (113.60 to 114.60): V  
 Ion 63.00 (62.70 to 63.70): VW  
 Ion 87.90 (87.60 to 88.60): VW

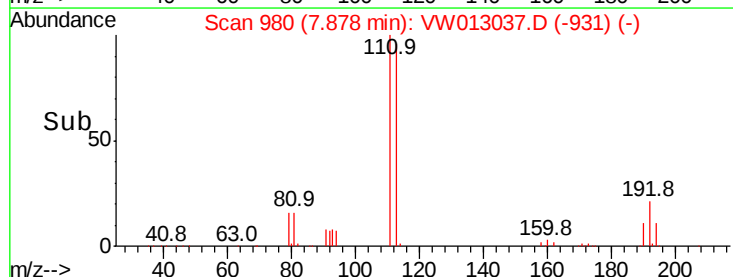
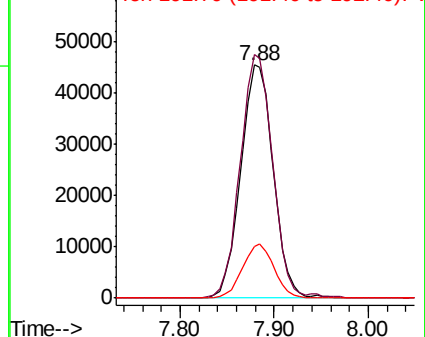


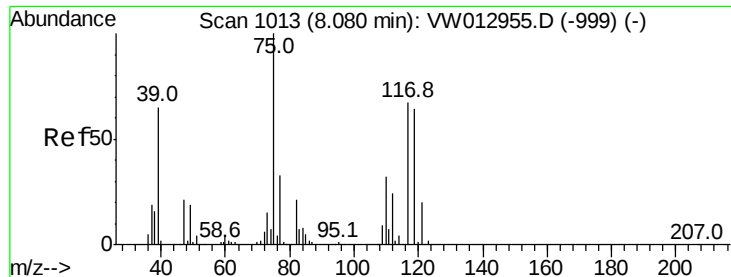
#35  
 Dibromofluoromethane  
 Concen: 52.361 ug/l  
 RT: 7.88 min Scan# 980  
 Delta R.T. -0.00 min  
 Lab File: VW013037.D  
 Acq: 16 Sep 2019 13:24

Tgt Ion:113 Resp: 109302  
 Ion Ratio Lower Upper  
 113 100  
 111 104.1 82.8 124.2  
 192 22.2 17.8 26.8



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

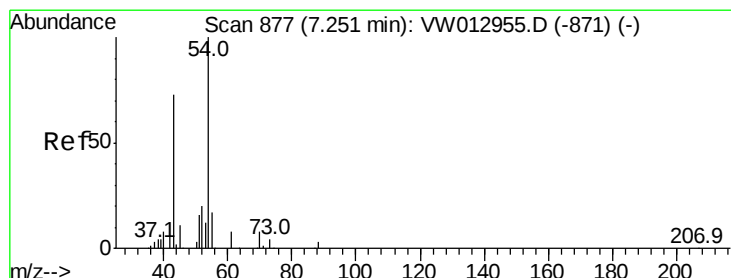
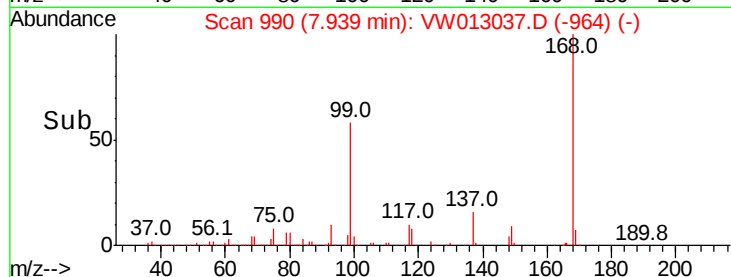
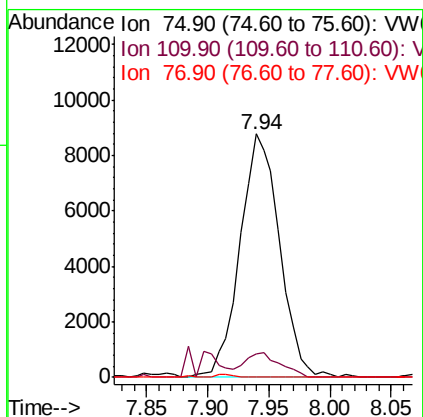
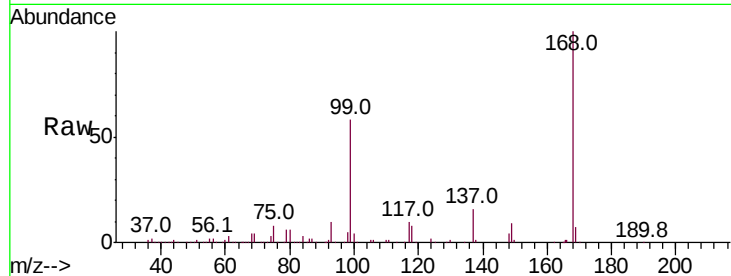




#36  
 1,1-Dichloropropene  
 Concen: 6.385 ug/l  
 RT: 7.94 min Scan# 990  
 Delta R.T. -0.14 min  
 Lab File: VW013037.D  
 Acq: 16 Sep 2019 13:24

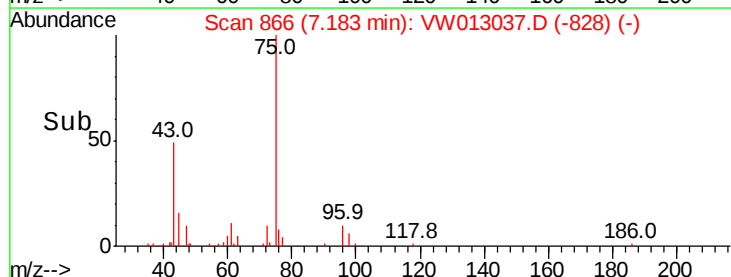
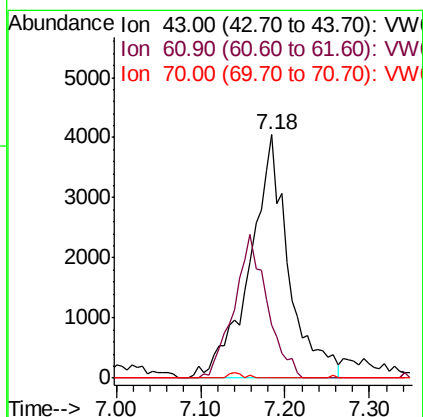
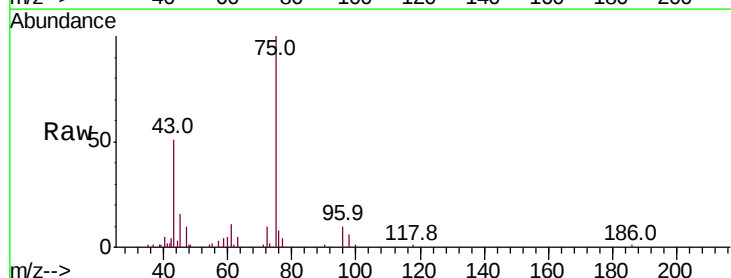
Instrument :  
 MSVOA\_W  
 ClientSampleId :

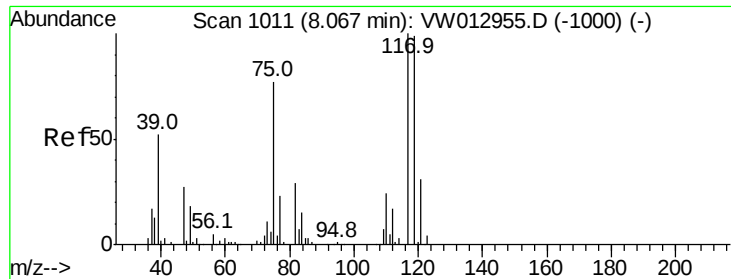
Tot Ion: 75 Resp: 19629  
 Ion Ratio Lower Upper  
 75 100  
 110 8.9 16.4 49.1#  
 77 0.0 25.1 37.7#



#37  
 Ethyl Acetate  
 Concen: 7.817 ug/l  
 RT: 7.18 min Scan# 866  
 Delta R.T. -0.07 min  
 Lab File: VW013037.D  
 Acq: 16 Sep 2019 13:24

Tgt Ion: 43 Resp: 12756  
 Ion Ratio Lower Upper  
 43 100  
 61 0.0 9.6 14.4#  
 70 0.0 7.6 11.4#





#38

Carbon Tetrachloride

Concen: 7.862 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.12 min

Lab File: VW013037.D

Acq: 16 Sep 2019 13:24

Instrument :

MSVOA\_W

ClientSampled :

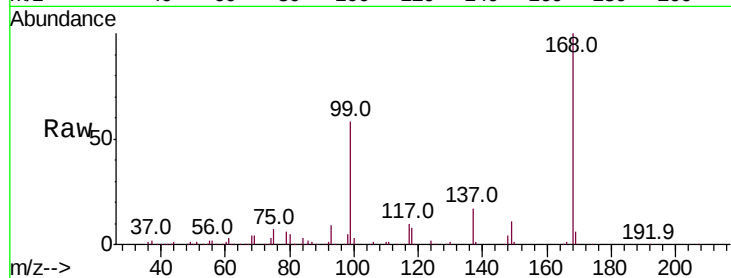
Tot Ion:117 Resp: 24769

Ion Ratio Lower Upper

117 100

119 3.3 79.4 119.0#

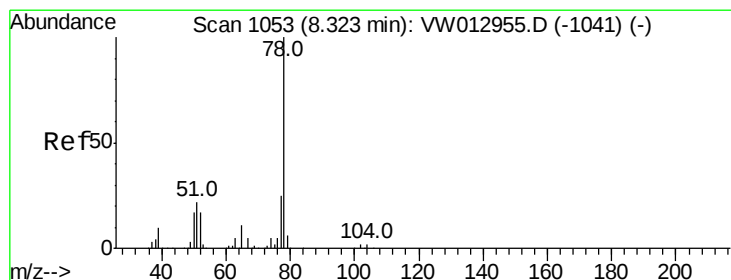
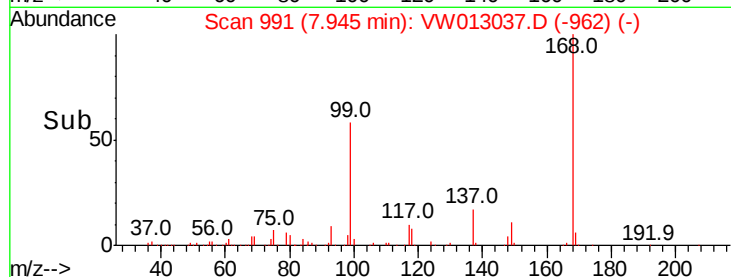
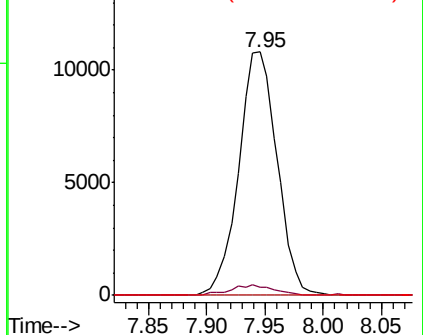
121 0.0 24.6 36.8#



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



#40

Benzene

Concen: 2.761 ug/l

RT: 8.32 min Scan# 1053

Delta R.T. -0.00 min

Lab File: VW013037.D

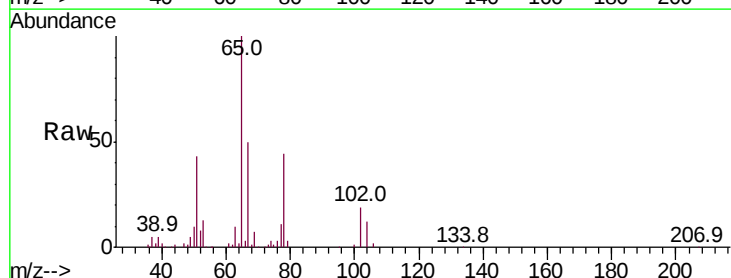
Acq: 16 Sep 2019 13:24

Tgt Ion: 78 Resp: 23697

Ion Ratio Lower Upper

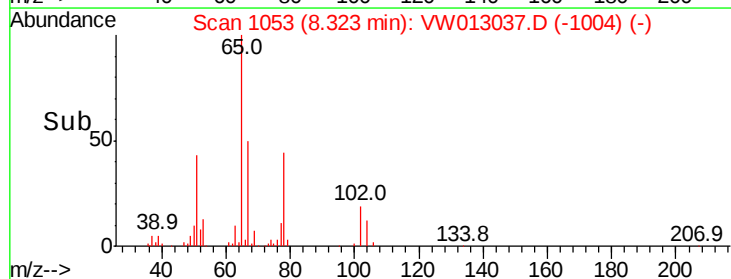
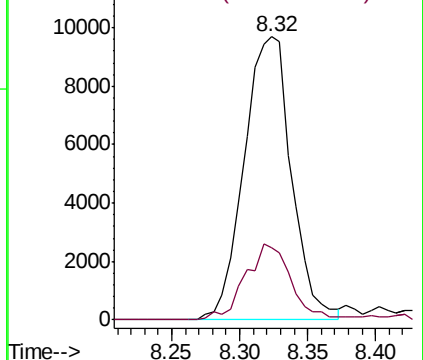
78 100

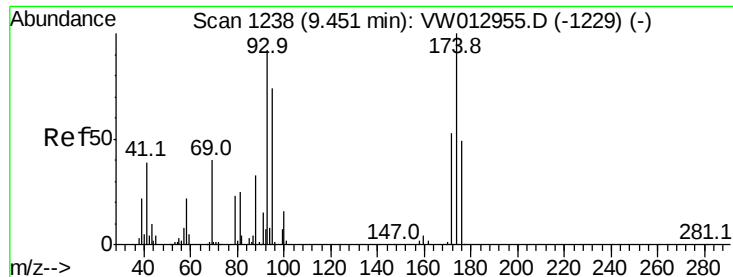
77 25.5 19.6 29.4



Abundance Ion 78.00 (77.70 to 78.70): VW

Ion 77.00 (76.70 to 77.70): VW

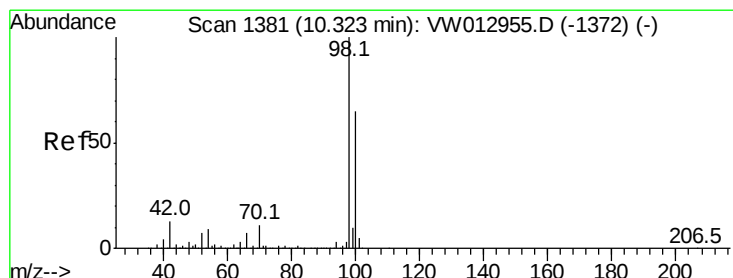
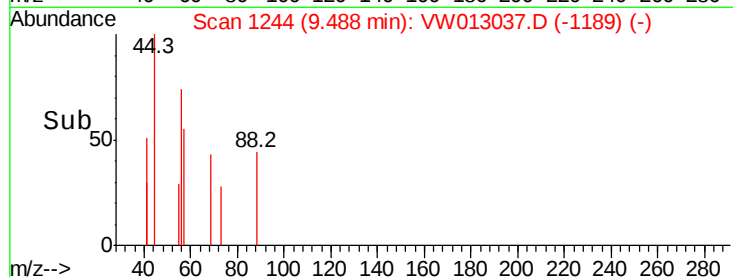
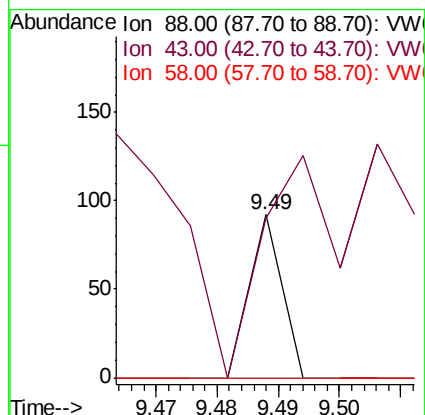
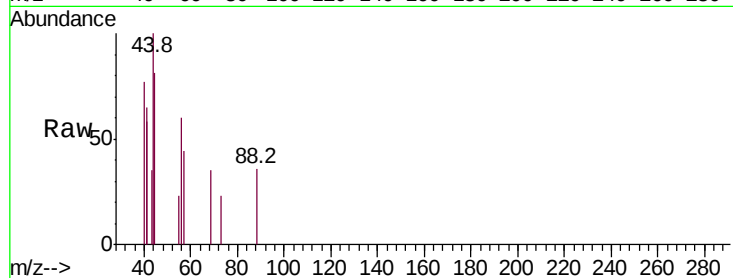




#49  
1,4-Dioxane  
Concen: 1.857 ug/l  
RT: 9.49 min Scan# 1244  
Delta R.T. 0.04 min  
Lab File: VW013037.D  
Acq: 16 Sep 2019 13:24

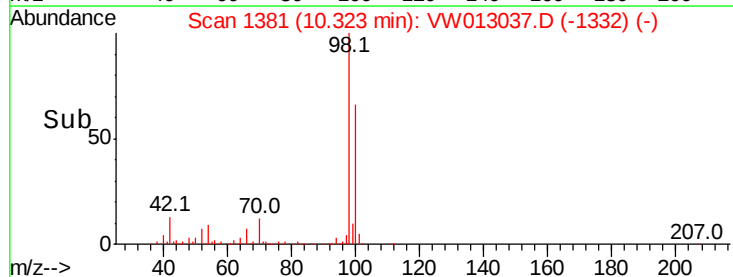
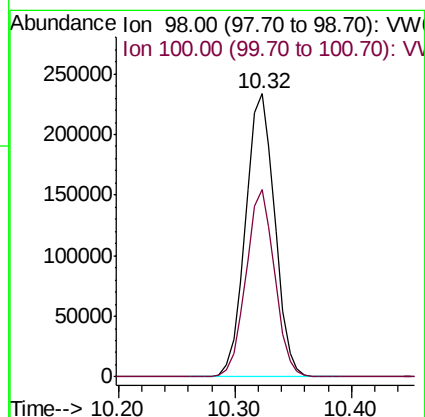
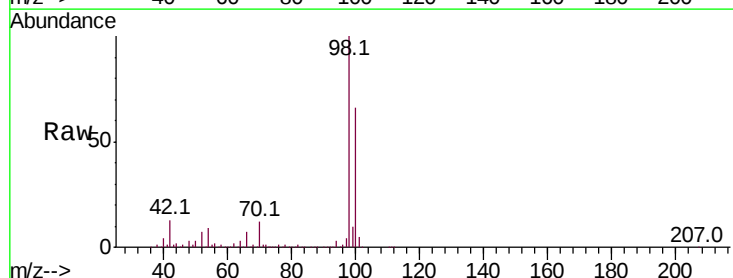
Instrument :  
MSVOA\_W  
ClientSampleId :

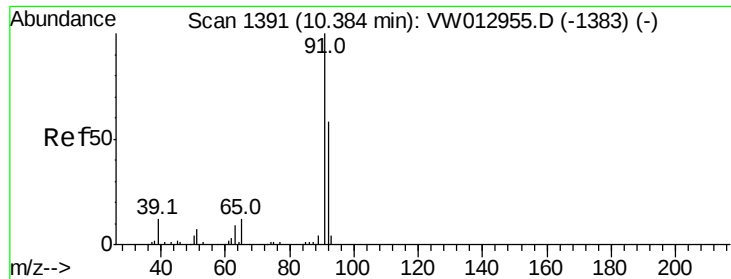
Tot Ion: 88 Resp: 34  
Ion Ratio Lower Upper  
88 100  
43 300.0 31.3 46.9#  
58 0.0 60.2 90.2#



#50  
Toluene-d8  
Concen: 50.122 ug/l  
RT: 10.32 min Scan# 1381  
Delta R.T. -0.00 min  
Lab File: VW013037.D  
Acq: 16 Sep 2019 13:24

Tgt Ion: 98 Resp: 409428  
Ion Ratio Lower Upper  
98 100  
100 64.8 52.1 78.1

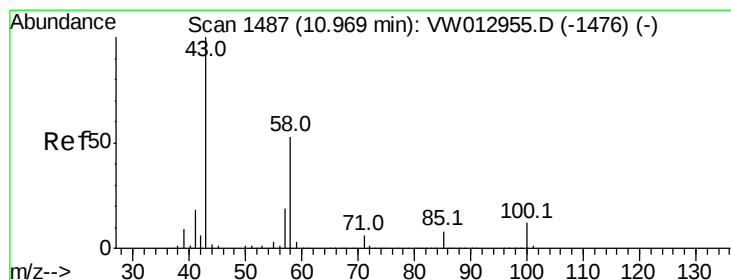
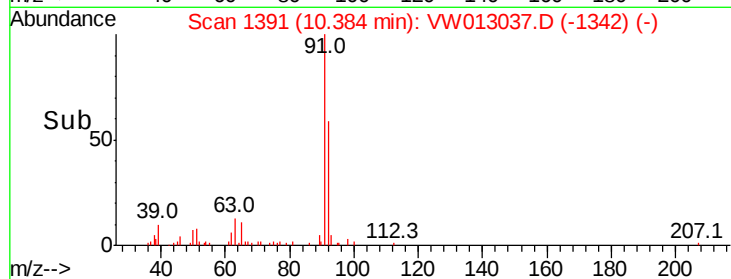
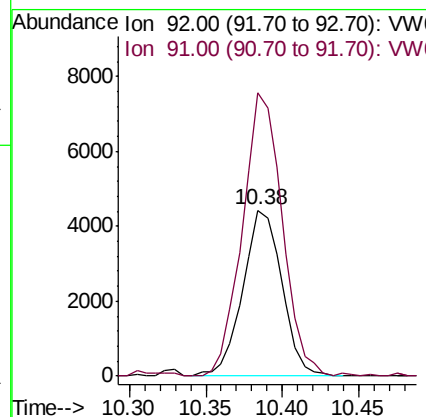
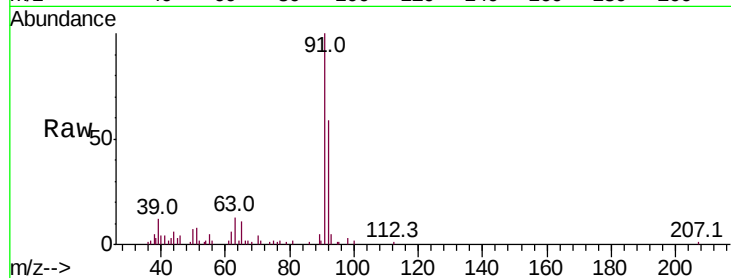




#52  
Toluene  
Concen: 1.450 ug/l  
RT: 10.38 min Scan# 1391  
Delta R.T. -0.00 min  
Lab File: VW013037.D  
Acq: 16 Sep 2019 13:24

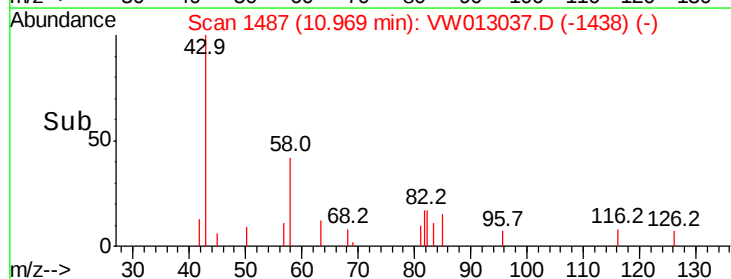
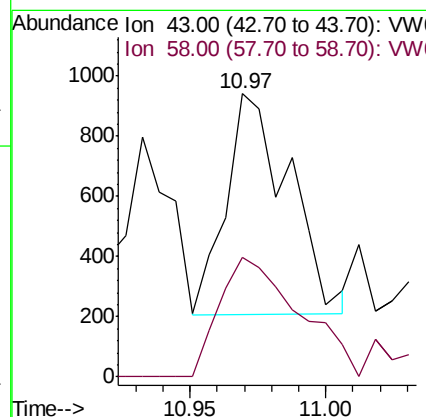
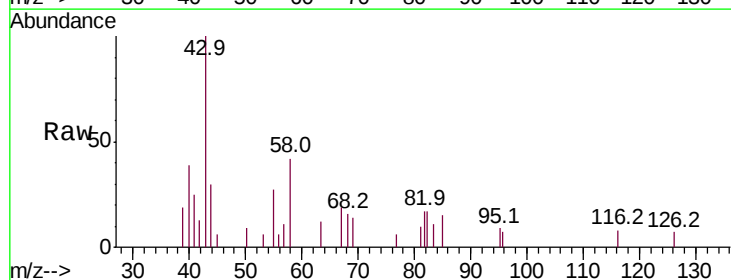
Instrument :  
MSVOA\_W  
ClientSampleId :

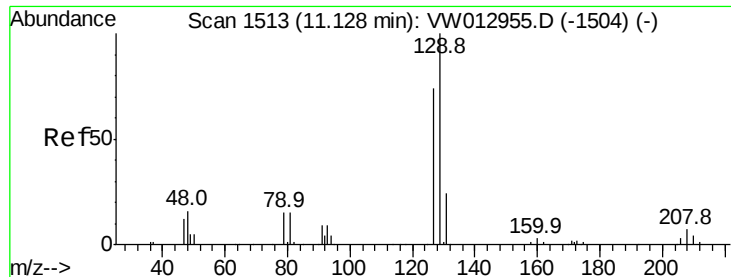
Tot Ion: 92 Resp: 7905  
Ion Ratio Lower Upper  
92 100  
91 173.0 137.5 206.3



#59  
2-Hexanone  
Concen: 1.052 ug/l  
RT: 10.97 min Scan# 1487  
Delta R.T. -0.00 min  
Lab File: VW013037.D  
Acq: 16 Sep 2019 13:24

Tgt Ion: 43 Resp: 1185  
Ion Ratio Lower Upper  
43 100  
58 68.2 25.8 77.3

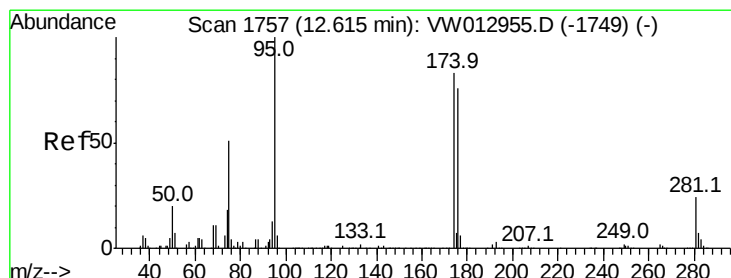
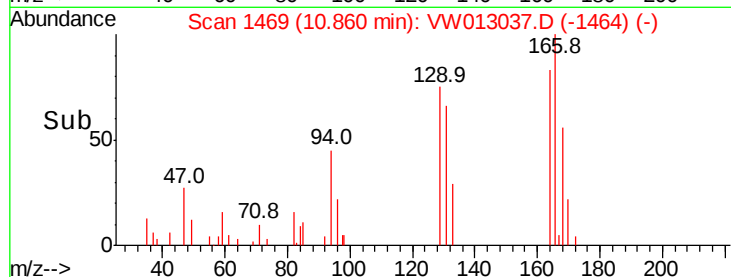
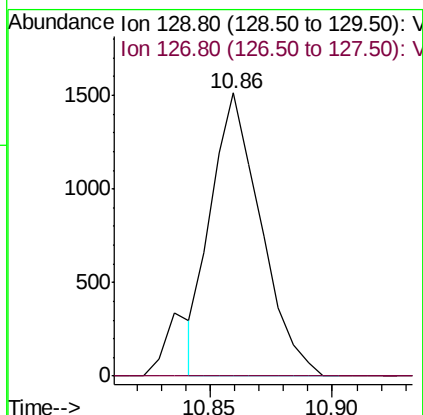
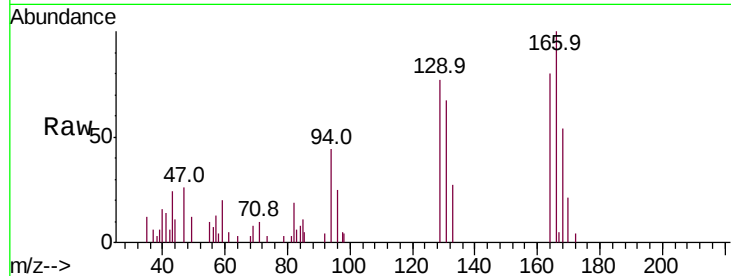




#60  
 Dibromochloromethane  
 Concen: 1.064 ug/l  
 RT: 10.86 min Scan# 1469  
 Delta R.T. -0.27 min  
 Lab File: VW013037.D  
 Acq: 16 Sep 2019 13:24

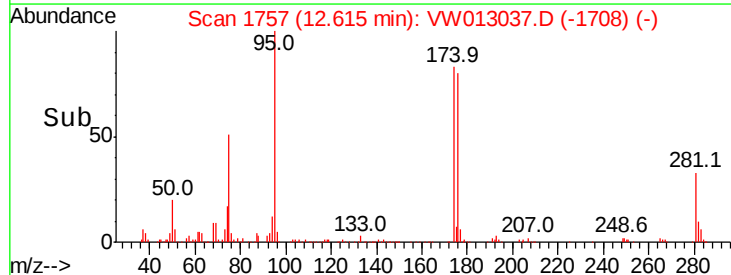
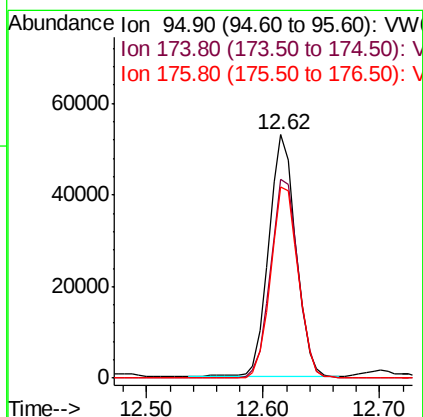
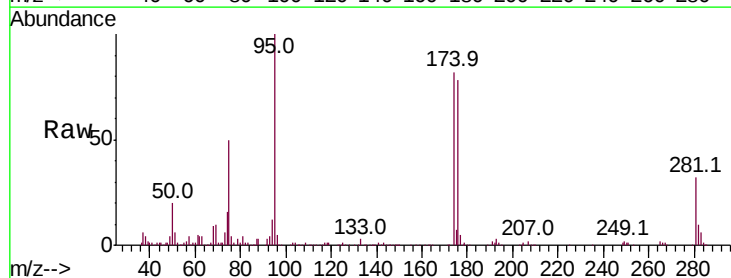
Instrument :  
 MSVOA\_W  
 ClientSampleId :

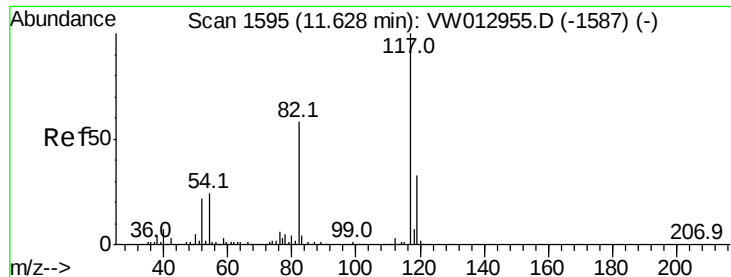
Tot Ion:129 Resp: 2140  
 Ion Ratio Lower Upper  
 129 100  
 127 0.0 37.4 112.2#



#62  
 4-Bromofluorobenzene  
 Concen: 29.134 ug/l  
 RT: 12.62 min Scan# 1757  
 Delta R.T. -0.00 min  
 Lab File: VW013037.D  
 Acq: 16 Sep 2019 13:24

Tgt Ion: 95 Resp: 85573  
 Ion Ratio Lower Upper  
 95 100  
 174 83.4 0.0 170.4  
 176 80.2 0.0 164.6

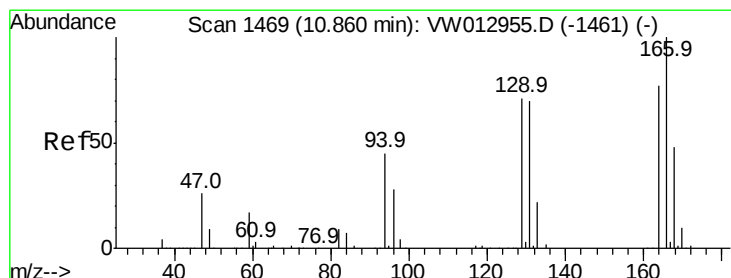
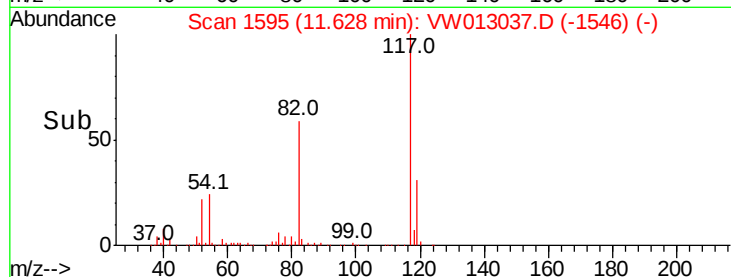
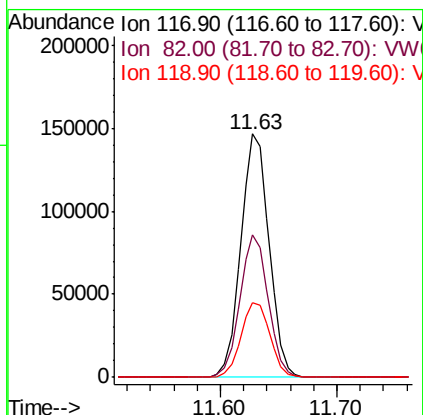
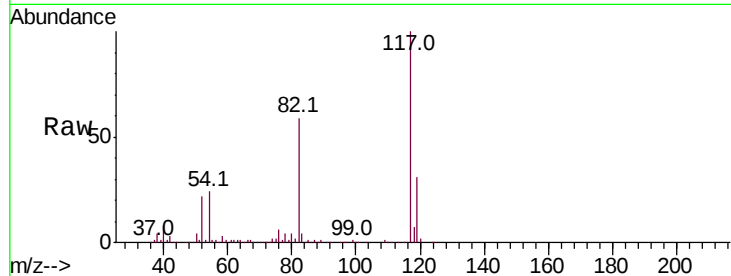




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.63 min Scan# 1595  
Delta R.T. -0.00 min  
Lab File: VW013037.D  
Acq: 16 Sep 2019 13:24

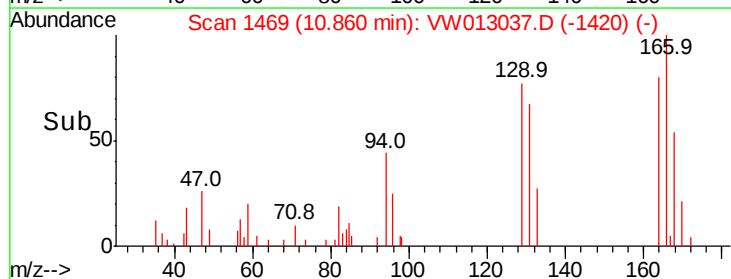
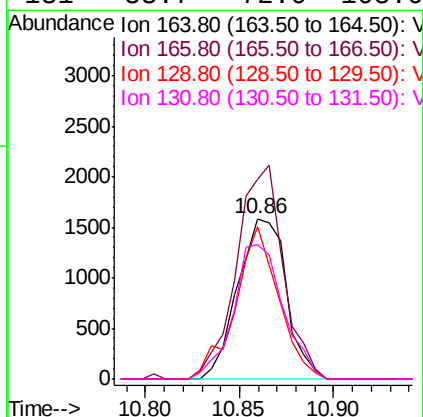
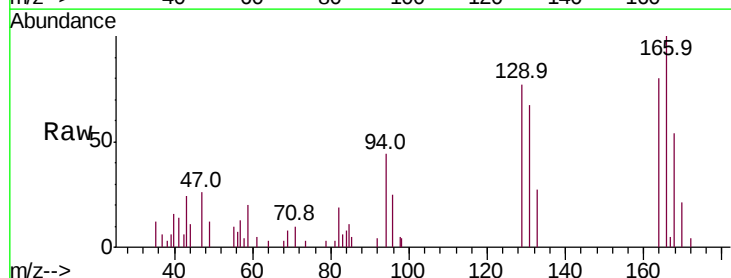
Instrument :  
MSVOA\_W  
ClientSampleId :

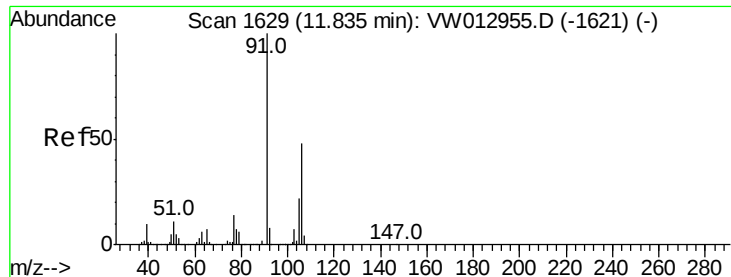
Tot Ion:117 Resp: 248632  
Ion Ratio Lower Upper  
117 100  
82 58.4 46.3 69.5  
119 30.7 26.2 39.4



#64  
Tetrachloroethene  
Concen: 1.913 ug/l  
RT: 10.86 min Scan# 1469  
Delta R.T. -0.00 min  
Lab File: VW013037.D  
Acq: 16 Sep 2019 13:24

Tgt Ion:164 Resp: 2830  
Ion Ratio Lower Upper  
164 100  
166 124.7 103.3 154.9  
129 95.4 73.8 110.8  
131 83.7 72.0 108.0





#68

m/p-Xylenes

Concen: 2.154 ug/l

RT: 11.84 min Scan# 1629

Delta R.T. -0.00 min

Lab File: VW013037.D

Acq: 16 Sep 2019 13:24

Instrument :

MSVOA\_W

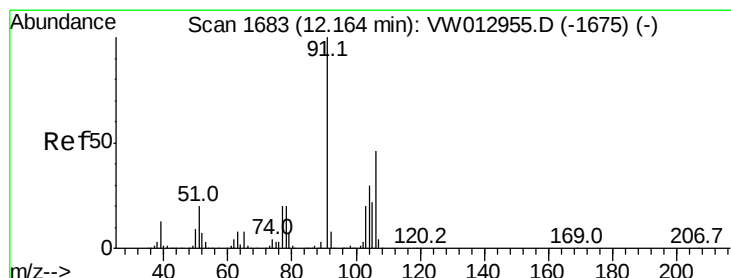
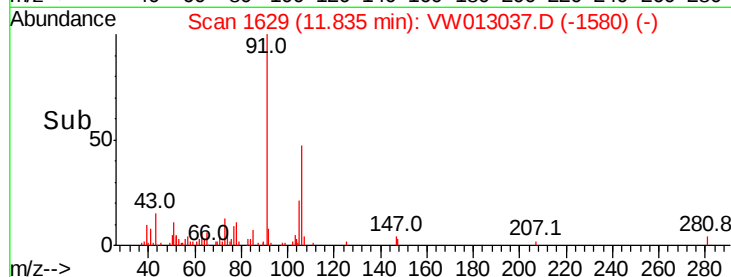
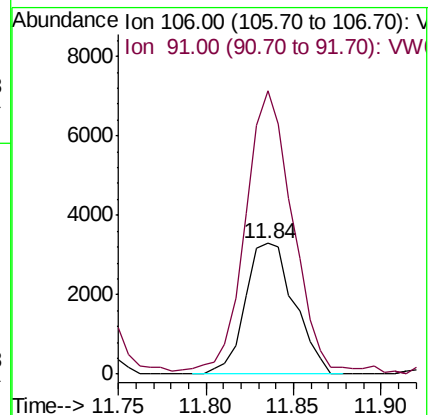
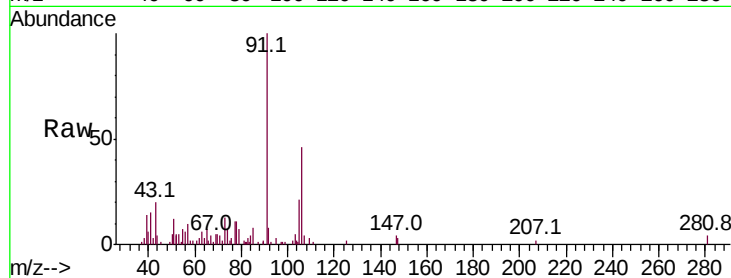
ClientSampleId :

Tot Ion:106 Resp: 6436

Ion Ratio Lower Upper

106 100

91 213.0 165.8 248.8



#69

o-Xylene

Concen: 1.385 ug/l

RT: 12.16 min Scan# 1683

Delta R.T. -0.00 min

Lab File: VW013037.D

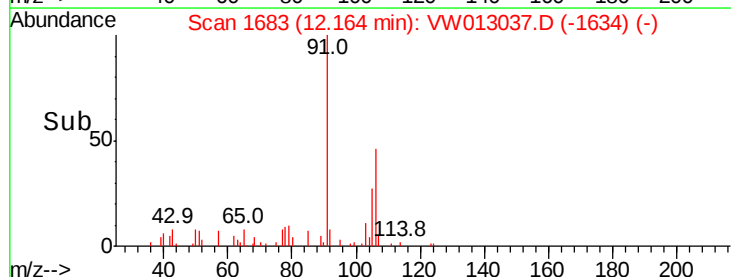
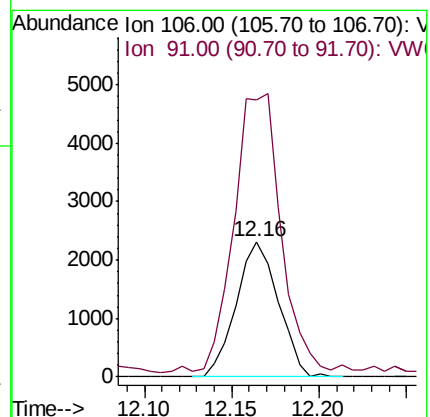
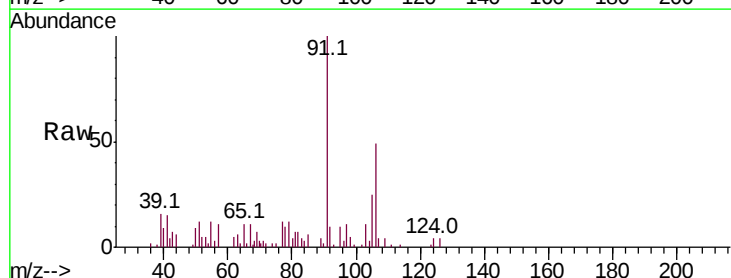
Acq: 16 Sep 2019 13:24

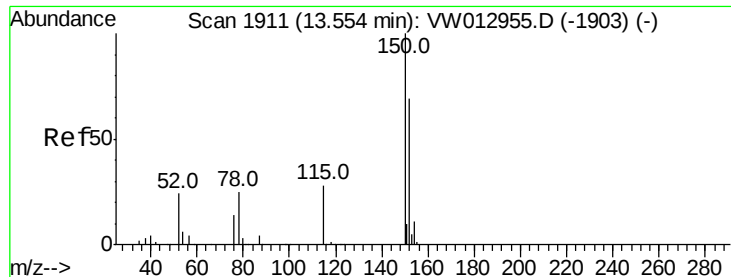
Tgt Ion:106 Resp: 3881

Ion Ratio Lower Upper

106 100

91 231.4 109.7 329.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.55 min Scan# 1911

Delta R.T. -0.00 min

Lab File: VW013037.D

Acq: 16 Sep 2019 13:24

Instrument :

MSVOA\_W

ClientSampleId :

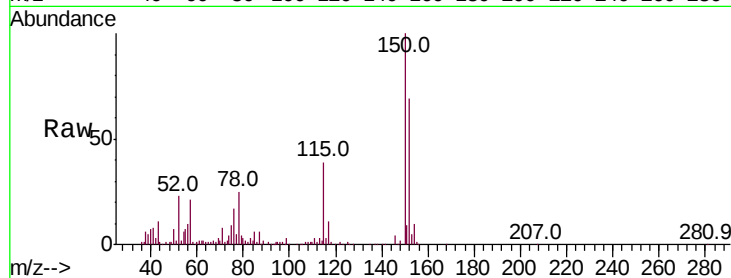
Tot Ion:152 Resp: 42579

Ion Ratio Lower Upper

152 100

115 59.8 28.8 86.4

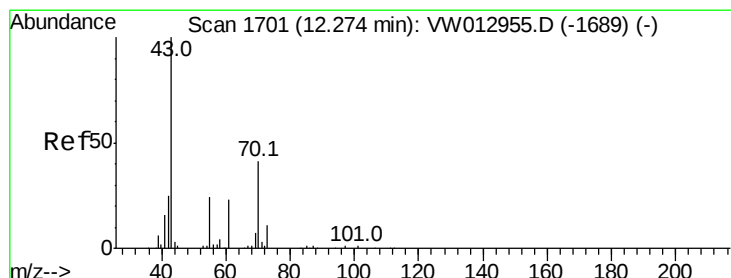
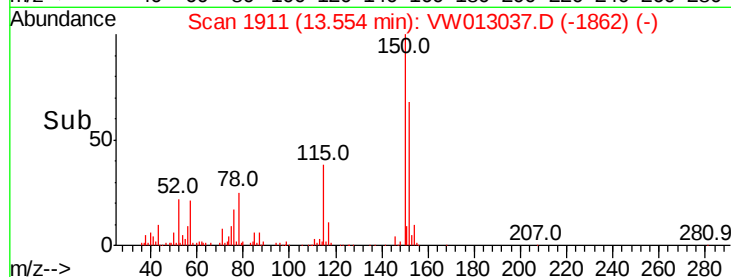
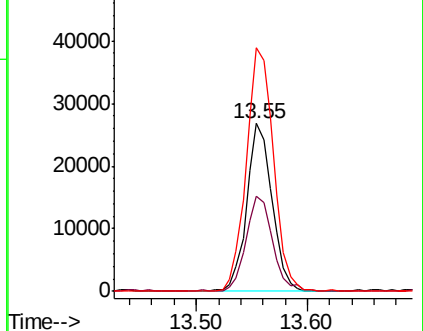
150 155.3 0.0 340.2



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



#74

N-ethyl acetate

Concen: 3.862 ug/l

RT: 12.24 min Scan# 1696

Delta R.T. -0.03 min

Lab File: VW013037.D

Acq: 16 Sep 2019 13:24

Tgt Ion: 43 Resp: 2804

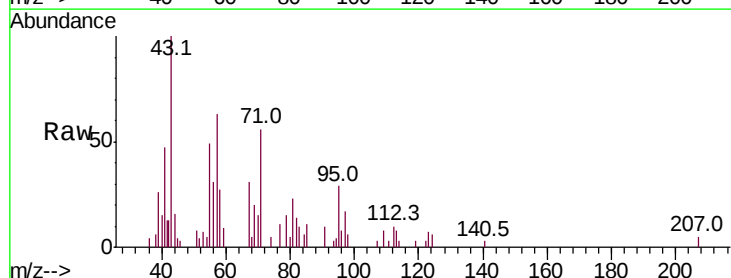
Ion Ratio Lower Upper

43 100

70 14.6 31.7 47.5#

55 0.0 19.4 29.2#

61 0.0 18.7 28.1#

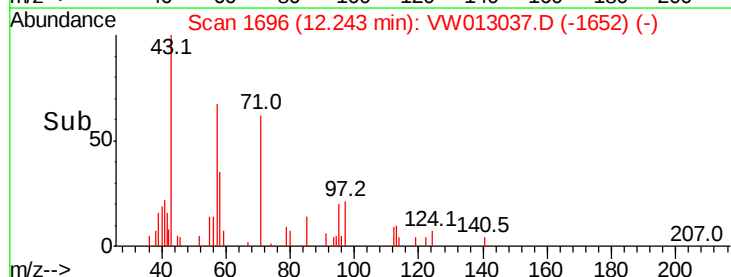
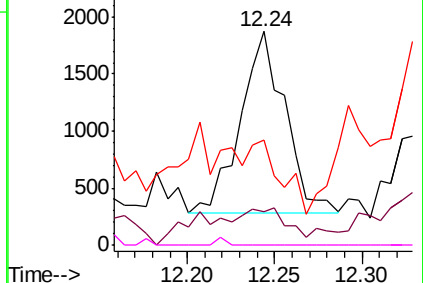


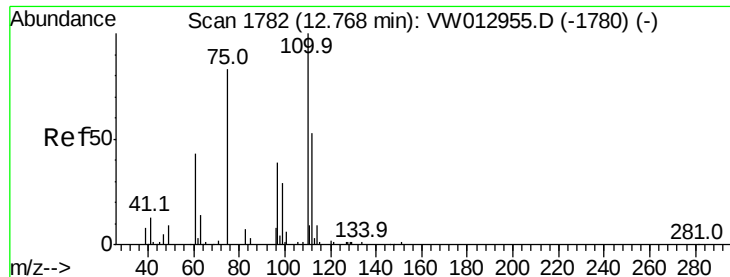
Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 70.00 (69.70 to 70.70): VW

Ion 55.00 (54.70 to 55.70): VW

Ion 61.00 (60.70 to 61.70): VW

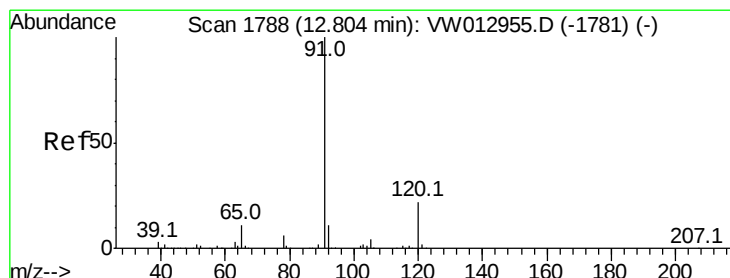
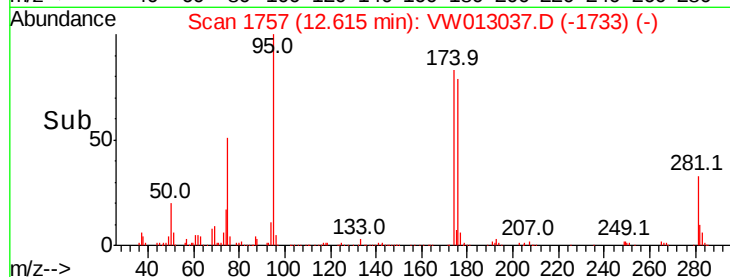
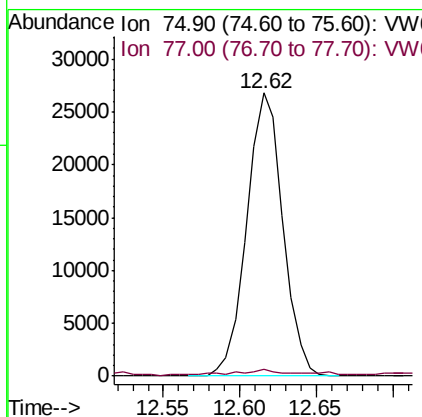
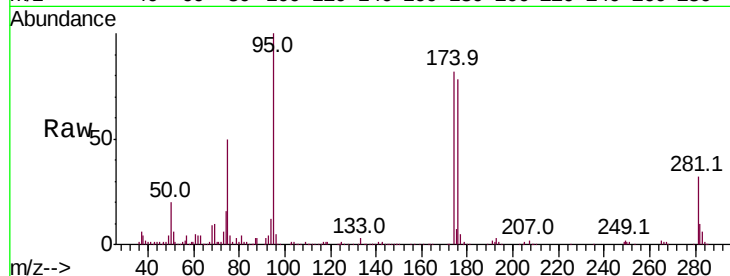




#76  
 1,2,3-Trichloropropane  
 Concen: 117.890 ug/l  
 RT: 12.62 min Scan# 1757  
 Delta R.T. -0.15 min  
 Lab File: VW013037.D  
 Acq: 16 Sep 2019 13:24

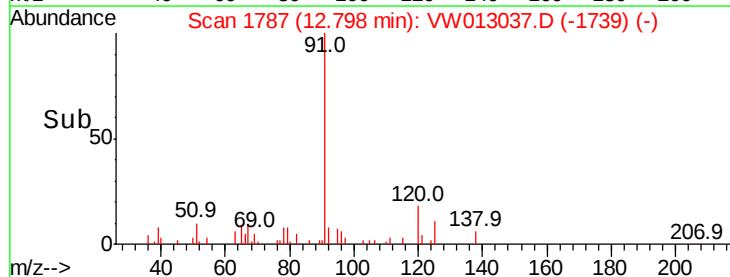
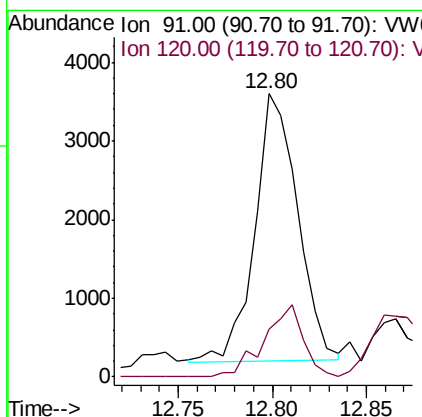
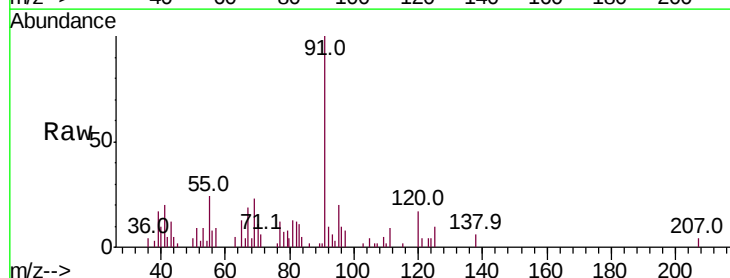
Instrument :  
 MSVOA\_W  
 ClientSampleId :

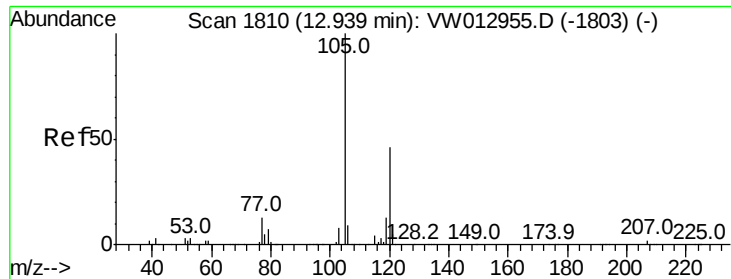
Tot Ion: 75 Resp: 43968  
 Ion Ratio Lower Upper  
 75 100  
 77 2.7 0.0 0.0#



#78  
 n-propylbenzene  
 Concen: 1.615 ug/l  
 RT: 12.80 min Scan# 1787  
 Delta R.T. -0.01 min  
 Lab File: VW013037.D  
 Acq: 16 Sep 2019 13:24

Tgt Ion: 91 Resp: 5362  
 Ion Ratio Lower Upper  
 91 100  
 120 24.7 11.2 33.5

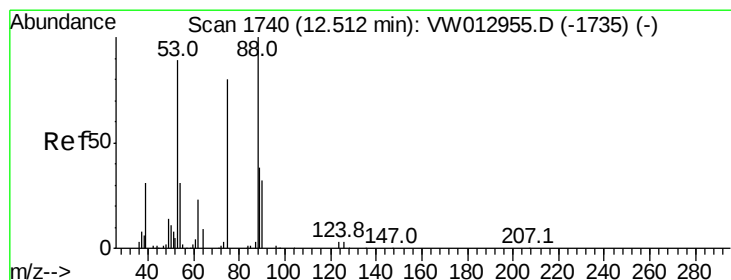
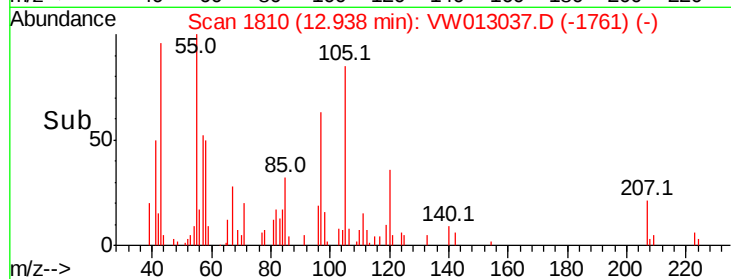
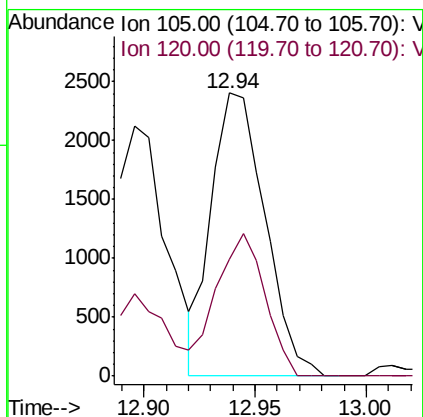
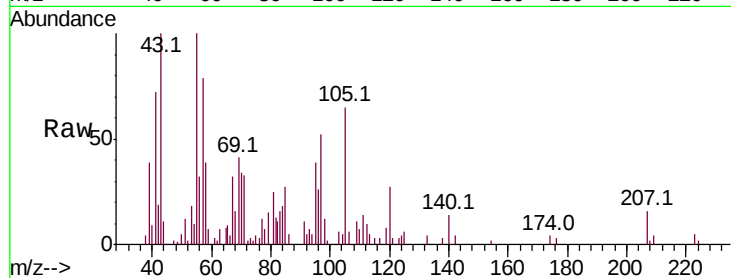




#80  
 1,3,5-Trimethylbenzene  
 Concen: 1.685 ug/l  
 RT: 12.94 min Scan# 1810  
 Delta R.T. -0.00 min  
 Lab File: VW013037.D  
 Acq: 16 Sep 2019 13:24

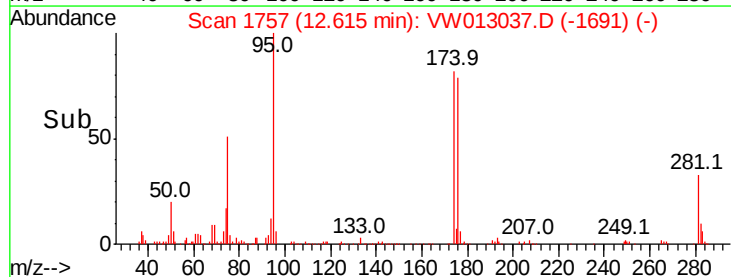
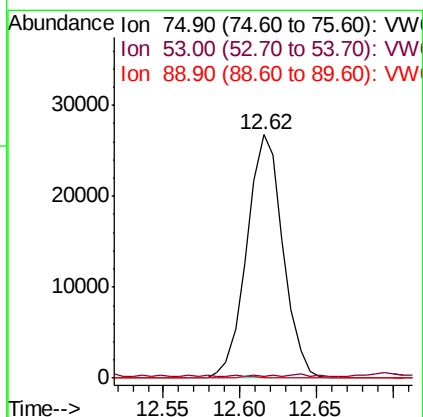
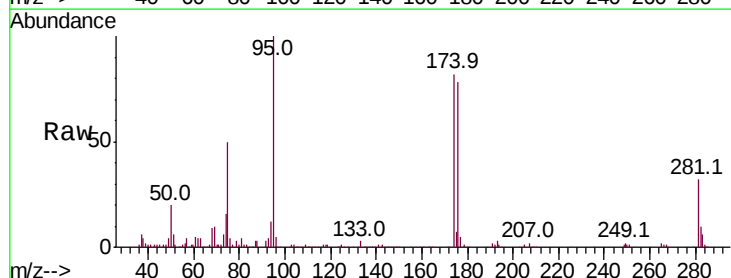
Instrument :  
 MSVOA\_W  
 ClientSampled :

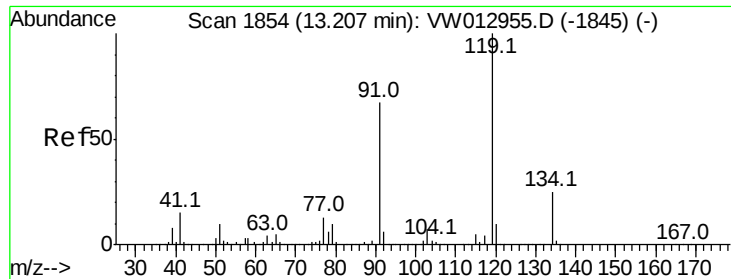
Tot Ion:105 Resp: 4024  
 Ion Ratio Lower Upper  
 105 100  
 120 45.7 24.2 72.6



#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 267.431 ug/l  
 RT: 12.62 min Scan# 1757  
 Delta R.T. 0.10 min  
 Lab File: VW013037.D  
 Acq: 16 Sep 2019 13:24

Tgt Ion: 75 Resp: 43968  
 Ion Ratio Lower Upper  
 75 100  
 53 0.4 85.6 128.4#  
 89 0.7 37.2 55.8#

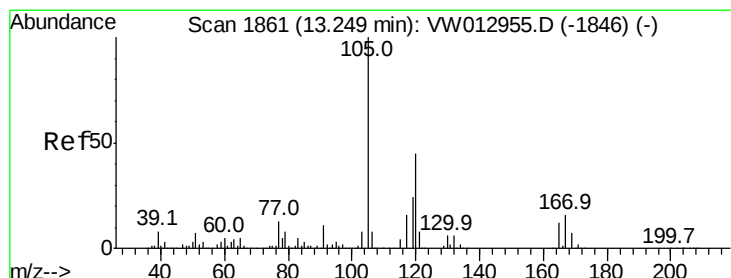
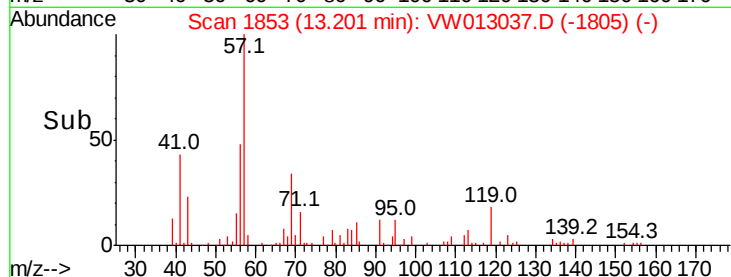
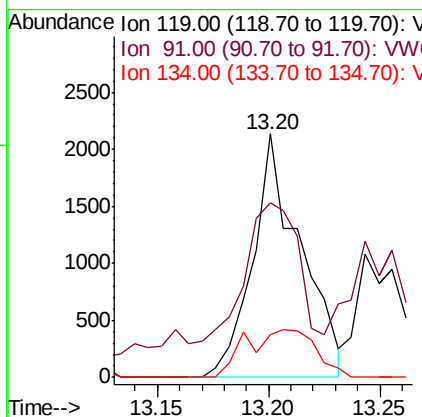
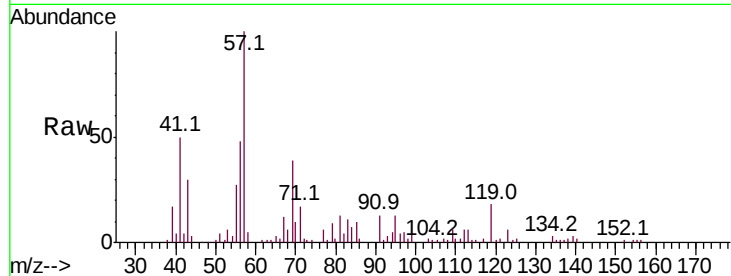




#83  
 tert-Butylbenzene  
 Concen: 1.493 ug/l  
 RT: 13.20 min Scan# 1853  
 Delta R.T. -0.01 min  
 Lab File: VW013037.D  
 Acq: 16 Sep 2019 13:24

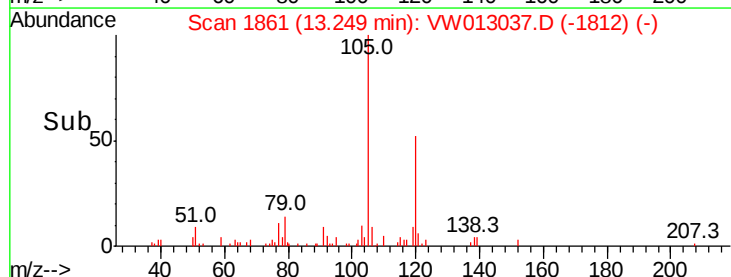
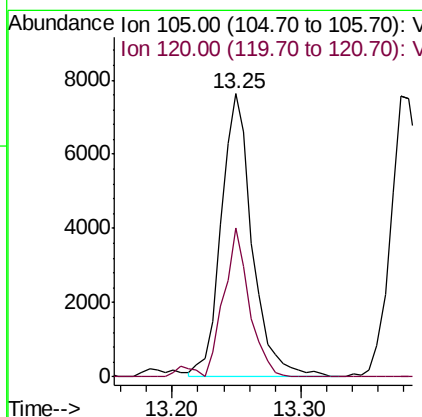
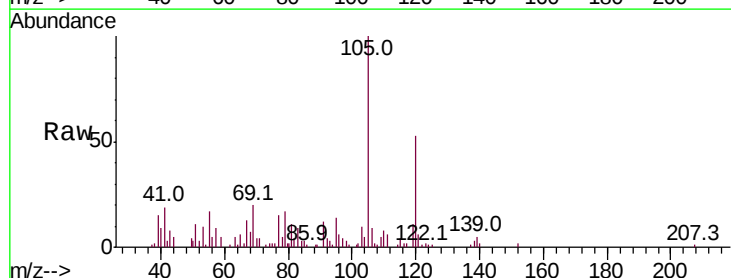
Instrument :  
 MSVOA\_W  
 ClientSampled :

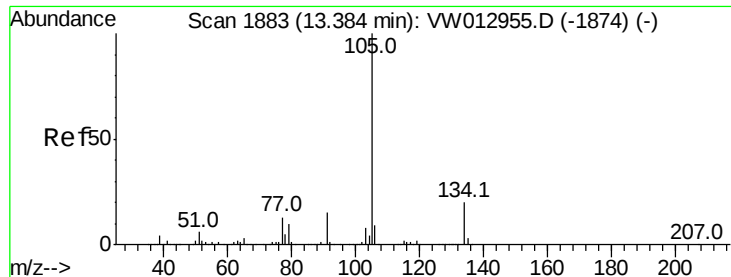
Tot Ion:119 Resp: 3188  
 Ion Ratio Lower Upper  
 119 100  
 91 68.8 32.6 98.0  
 134 28.4 12.4 37.4



#84  
 1,2,4-Trimethylbenzene  
 Concen: 5.485 ug/l  
 RT: 13.25 min Scan# 1861  
 Delta R.T. -0.00 min  
 Lab File: VW013037.D  
 Acq: 16 Sep 2019 13:24

Tgt Ion:105 Resp: 12940  
 Ion Ratio Lower Upper  
 105 100  
 120 43.3 21.9 65.7

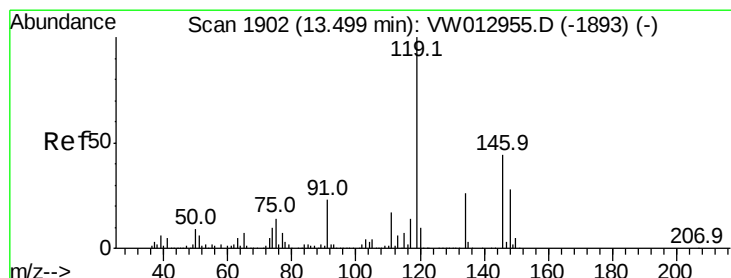
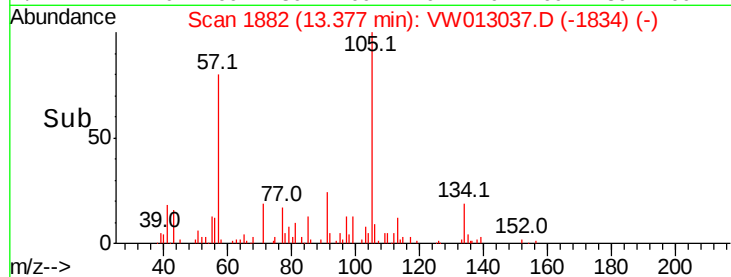
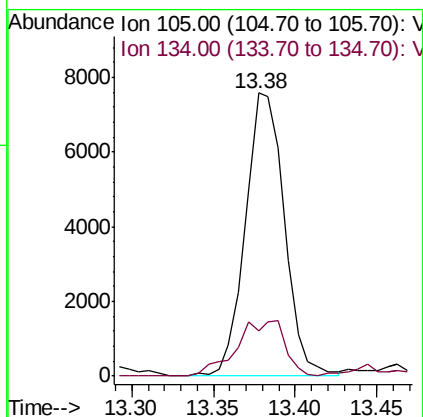
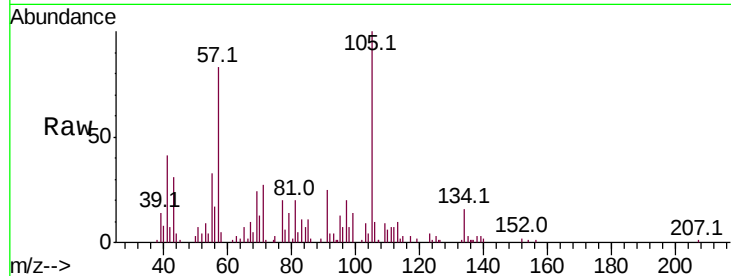




#85  
 sec-Butylbenzene  
 Concen: 4.352 ug/l  
 RT: 13.38 min Scan# 1882  
 Delta R.T. -0.01 min  
 Lab File: VW013037.D  
 Acq: 16 Sep 2019 13:24

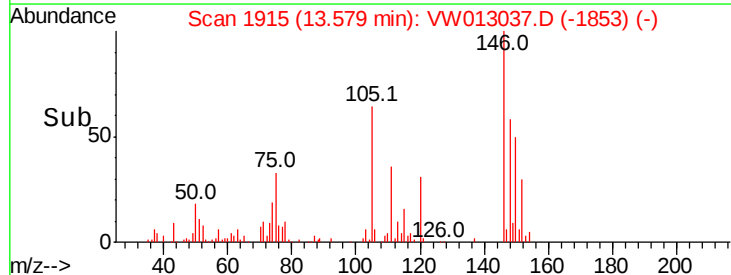
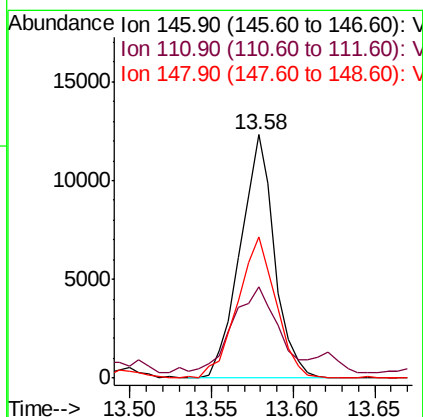
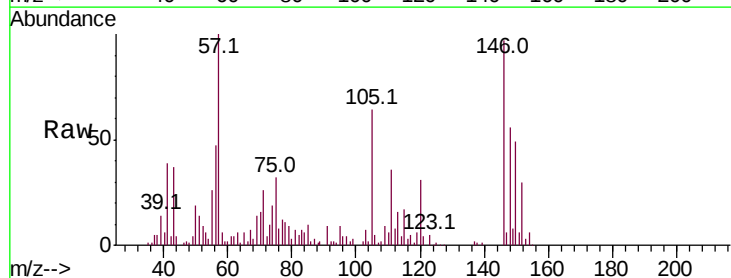
Instrument :  
 MSVOA\_W  
 ClientSampleId :

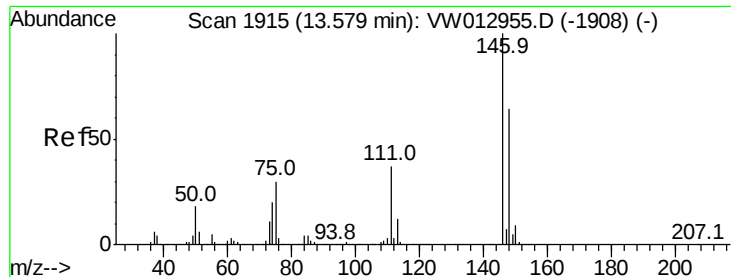
Tot Ion:105 Resp: 12664  
 Ion Ratio Lower Upper  
 105 100  
 134 24.3 10.2 30.4



#87  
 1,3-Dichlorobenzene  
 Concen: 14.036 ug/l  
 RT: 13.58 min Scan# 1915  
 Delta R.T. 0.08 min  
 Lab File: VW013037.D  
 Acq: 16 Sep 2019 13:24

Tgt Ion:146 Resp: 18066  
 Ion Ratio Lower Upper  
 146 100  
 111 46.8 19.8 59.4  
 148 64.9 31.9 95.7

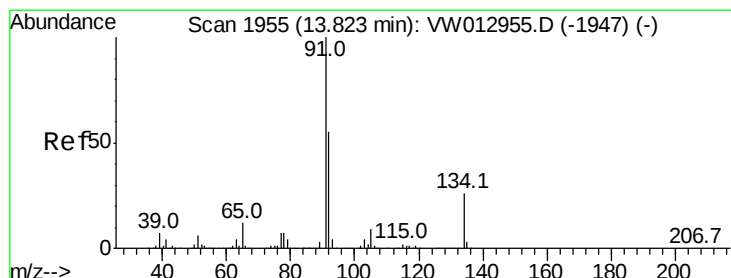
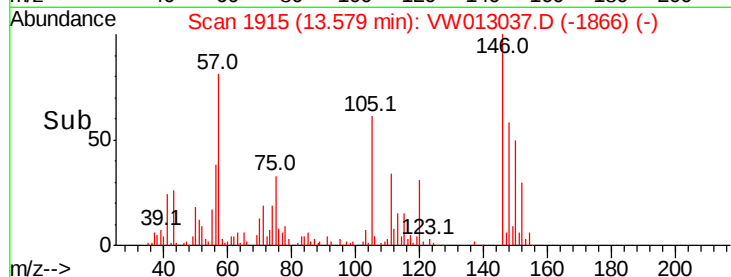
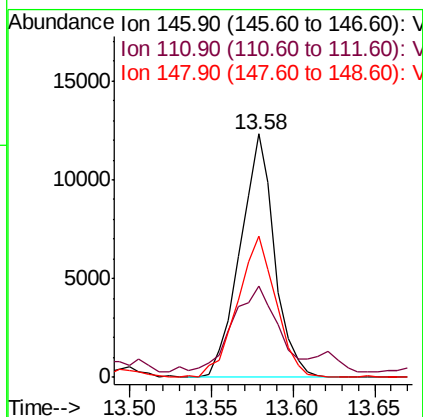
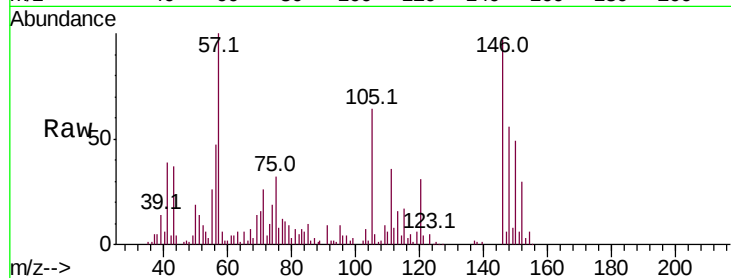




#88  
 1,4-Dichlorobenzene  
 Concen: 14.283 ug/l  
 RT: 13.58 min Scan# 1915  
 Delta R.T. -0.00 min  
 Lab File: VW013037.D  
 Acq: 16 Sep 2019 13:24

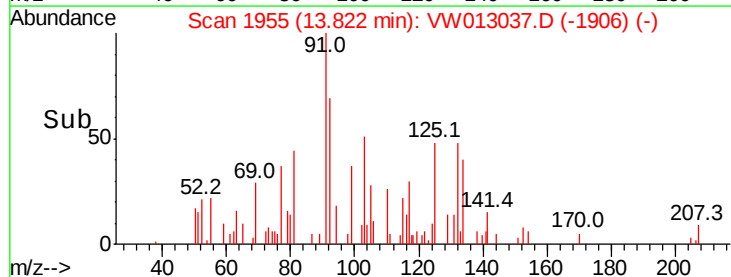
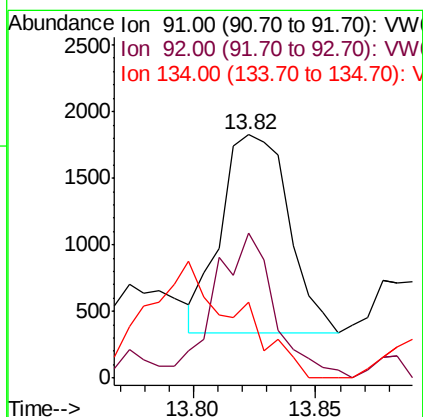
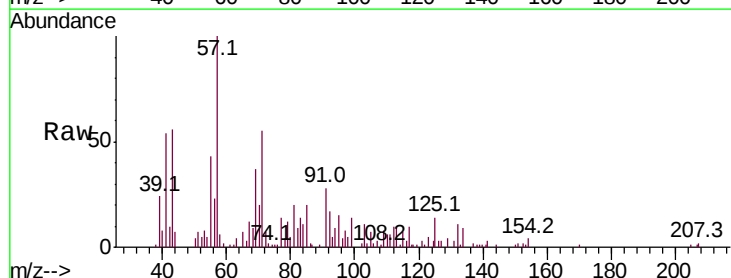
Instrument :  
 MSVOA\_W  
 ClientSampled :

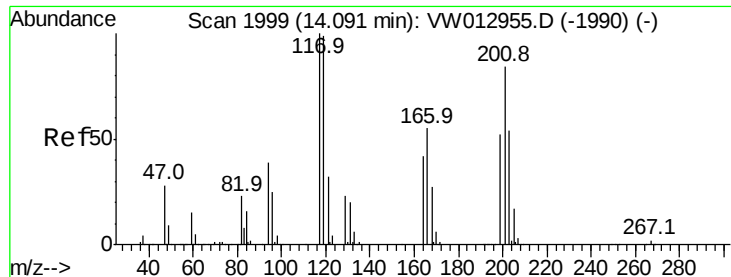
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 46.8  | 19.4  | 58.2  |
| 148     | 64.9  | 31.9  | 95.5  |



#89  
 n-Butylbenzene  
 Concen: 1.139 ug/l  
 RT: 13.82 min Scan# 1955  
 Delta R.T. -0.00 min  
 Lab File: VW013037.D  
 Acq: 16 Sep 2019 13:24

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 91      | 100   |       |       |
| 92      | 63.8  | 27.2  | 81.5  |
| 134     | 0.0   | 13.1  | 39.1# |





#90

Hexachloroethane

Concen: 1.506 ug/l

RT: 14.07 min Scan# 1996

Delta R.T. -0.02 min

Lab File: VW013037.D

Acq: 16 Sep 2019 13:24

Instrument :

MSVOA\_W

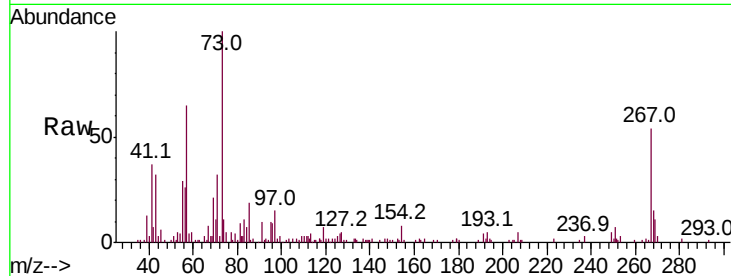
ClientSampleId :

Tot Ion:117 Resp: 721

Ion Ratio Lower Upper

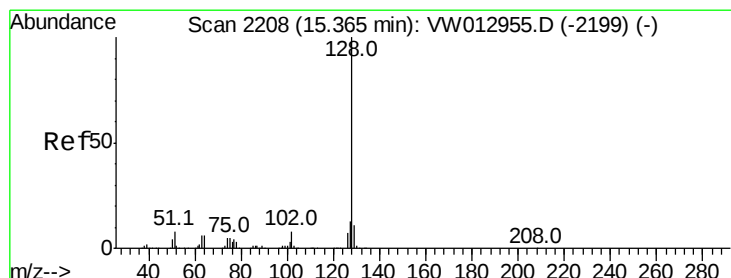
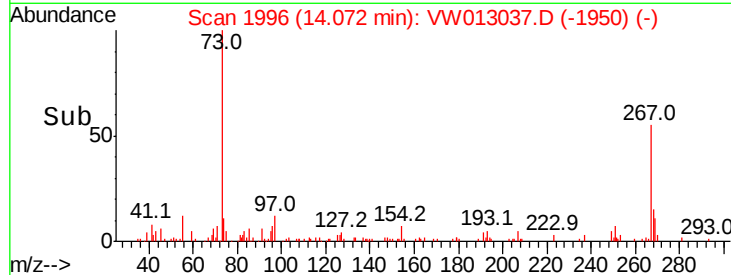
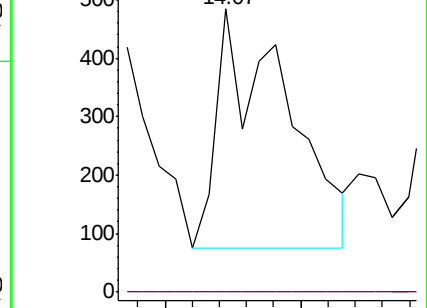
117 100

201 0.0 45.3 135.9#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V



#95

Naphthalene

Concen: 2.198 ug/l

RT: 15.36 min Scan# 2208

Delta R.T. -0.00 min

Lab File: VW013037.D

Acq: 16 Sep 2019 13:24

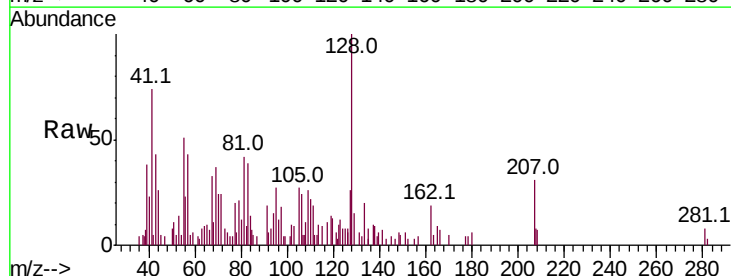
Tgt Ion:128 Resp: 2964

Ion Ratio Lower Upper

128 100

127 9.6 11.0 16.6#

129 12.3 8.6 12.8



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

