

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU083019\  
 Data File : VU034062.D  
 Acq On : 29 Aug 2019 15:17  
 Operator : JC/SP  
 Sample : PB122636TB  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :

Quant Time: Aug 29 15:56:07 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\82U082919W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Aug 29 04:11:12 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 4.96  | 168  | 468072   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 5.86  | 114  | 735916   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 9.07  | 117  | 733120   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 11.47 | 152  | 355828   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 5.29  | 65   | 294653   | 49.13 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 98.26%  |          |
| 35) Dibromofluoromethane    | 4.86  | 113  | 241445   | 47.30 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 94.60%  |          |
| 50) Toluene-d8              | 7.55  | 98   | 971269   | 50.82 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 101.64% |          |
| 62) 4-Bromofluorobenzene    | 10.29 | 95   | 339013   | 45.60 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 91.20%  |          |

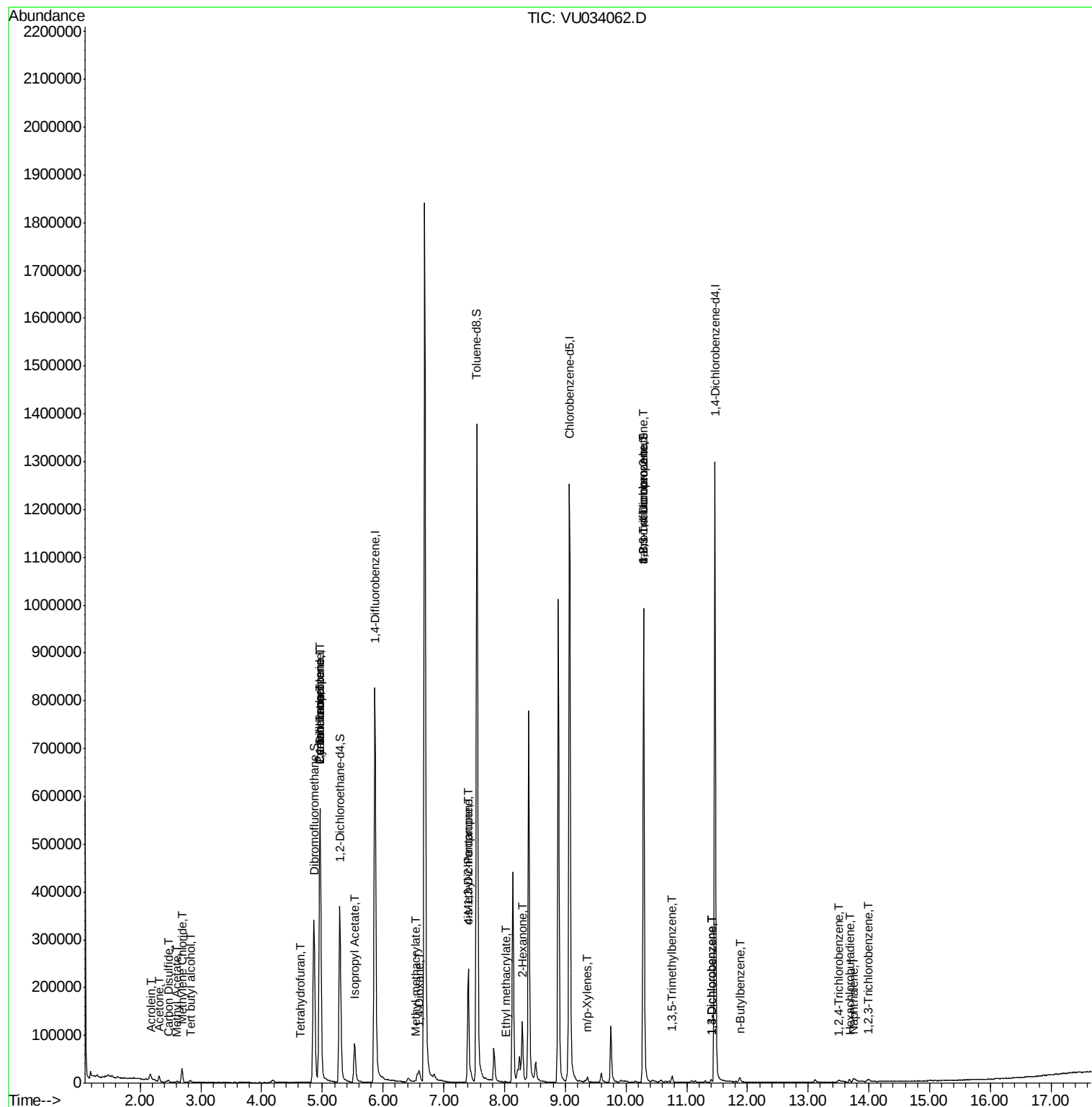
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 3) Chloromethane               | 1.32  | 50   | 857      | Below Cal |        | 97     |
| 5) Bromomethane                | 1.58  | 94   | 63       | Below Cal | #      | 2      |
| 11) Tert butyl alcohol         | 2.82  | 59   | 3074     | 2.223     | ug/l # | 73     |
| 13) Acrolein                   | 2.19  | 56   | 283      | 0.486     | ug/l # | 1      |
| 16) Acetone                    | 2.31  | 43   | 13170    | 4.304     | ug/l   | 100    |
| 17) Carbon Disulfide           | 2.46  | 76   | 3005     | 0.203     | ug/l # | 89     |
| 18) Methyl Acetate             | 2.61  | 43   | 3764     | 0.476     | ug/l # | 82     |
| 20) Methylene Chloride         | 2.69  | 84   | 12464    | 2.151     | ug/l   | 97     |
| 29) Tetrahydrofuran            | 4.64  | 42   | 924      | 0.352     | ug/l # | 55     |
| 31) Cyclohexane                | 4.96  | 56   | 8780     | 0.980     | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 4.96  | 75   | 33731    | 4.846     | ug/l # | 49     |
| 38) Carbon Tetrachloride       | 4.96  | 117  | 41742    | 6.213     | ug/l # | 16     |
| 43) Isopropyl Acetate          | 5.53  | 43   | 95248    | 8.032     | ug/l   | 99     |
| 48) Methyl methacrylate        | 6.53  | 41   | 5491     | 0.960     | ug/l # | 14     |
| 49) 1,4-Dioxane                | 6.61  | 88   | 337      | 2.350     | ug/l # | 22     |
| 51) 4-Methyl-2-Pentanone       | 7.40  | 43   | 83879    | 10.242    | ug/l # | 47     |
| 54) cis-1,3-Dichloropropene    | 7.40  | 75   | 42722    | 4.823     | ug/l # | 64     |
| 56) Ethyl methacrylate         | 8.02  | 69   | 983      | 1.077     | ug/l # | 27     |
| 59) 2-Hexanone                 | 8.30  | 43   | 97647    | 15.794    | ug/l # | 23     |
| 68) m/p-Xylenes                | 9.36  | 106  | 2943     | 0.303     | ug/l   | 91     |
| 76) 1,2,3-Trichloropropane     | 10.29 | 75   | 162969   | 20.321    | ug/l # | 37     |
| 80) 1,3,5-Trimethylbenzene     | 10.76 | 105  | 5400     | 0.267     | ug/l   | 96     |
| 81) trans-1,4-Dichloro-2-buten | 10.29 | 75   | 162969   | 68.426    | ug/l # | 100    |
| 87) 1,3-Dichlorobenzene        | 11.40 | 146  | 2515     | 0.221     | ug/l   | 90     |
| 88) 1,4-Dichlorobenzene        | 11.40 | 146  | 2515     | 0.218     | ug/l   | 91     |
| 89) n-Butylbenzene             | 11.88 | 91   | 4102     | 0.215     | ug/l   | 97     |
| 93) 1,2,4-Trichlorobenzene     | 13.50 | 180  | 2437     | 1.421     | ug/l   | 83     |
| 94) Hexachlorobutadiene        | 13.67 | 225  | 1270     | 0.298     | ug/l   | 91     |
| 95) Naphthalene                | 13.75 | 128  | 8241     | 2.148     | ug/l # | 92     |
| 96) 1,2,3-Trichlorobenzene     | 13.99 | 180  | 3748     | 0.537     | ug/l   | 91     |

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

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ClientSampleId :

Quant Time: Aug 29 15:56:07 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\82U082919W.M  
Quant Title : SW846 8260  
QLast Update : Thu Aug 29 04:11:12 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.96 min Scan# 1204

Delta R.T. 0.00 min

Lab File: VU034062.D

Acq: 29 Aug 2019 15:17

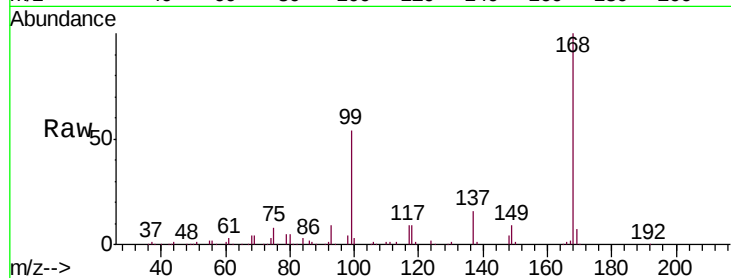
Instrument :  
MSVOA\_U  
ClientSampleId :

Tot Ion:168 Resp: 468072

Ion Ratio Lower Upper

168 100

99 54.3 42.3 63.5



Abundance Ion 167.90 (167.60 to 168.60): VU034018.D (-1185) (-)

Ion 98.90 (98.60 to 99.60): VU034018.D (-1185) (-)

4.96

200000

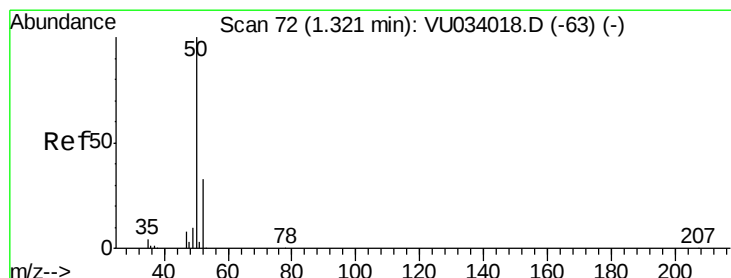
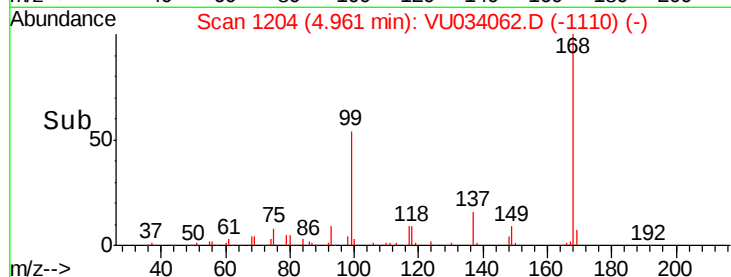
150000

100000

50000

0

Time--> 4.80 4.90 5.00 5.10 5.20



#3

Chloromethane

Concen: Below Cal

RT: 1.32 min Scan# 73

Delta R.T. 0.00 min

Lab File: VU034062.D

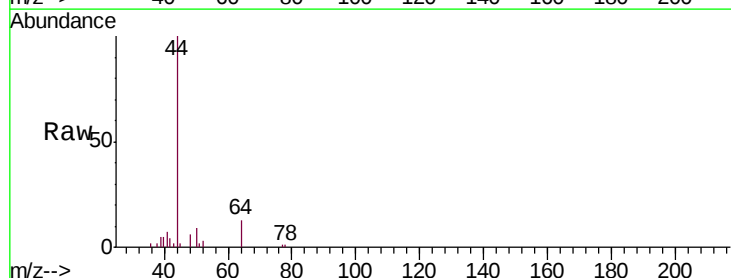
Acq: 29 Aug 2019 15:17

Tgt Ion: 50 Resp: 857

Ion Ratio Lower Upper

50 100

52 31.4 26.2 39.4



Abundance Ion 49.90 (49.60 to 50.60): VU034018.D (-63) (-)

Ion 51.90 (51.60 to 52.60): VU034018.D (-63) (-)

1.32

800

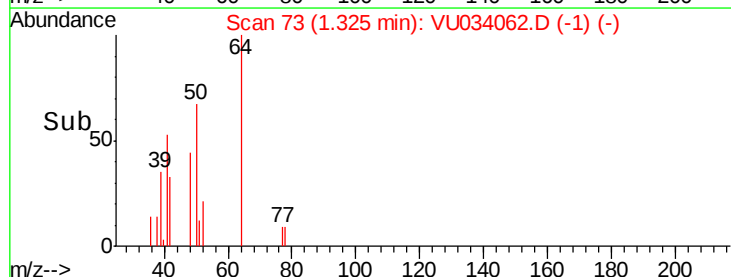
600

400

200

0

Time--> 1.30 1.32 1.34 1.36





#5

Bromomethane

Concen: Below Cal

RT: 1.58 min Scan# 153

Delta R.T. -0.02 min

Lab File: VU034062.D

Acq: 29 Aug 2019 15:17

Instrument :

MSVOA\_U

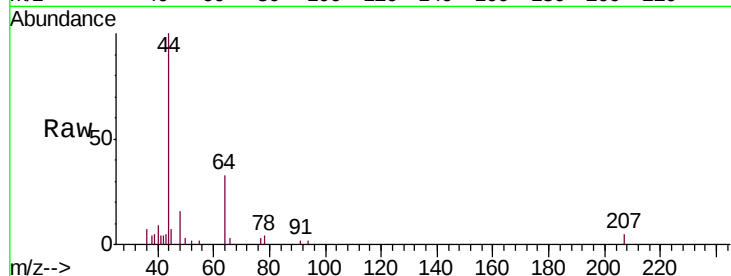
ClientSampleId :

Tot Ion: 94 Resp: 63

Ion Ratio Lower Upper

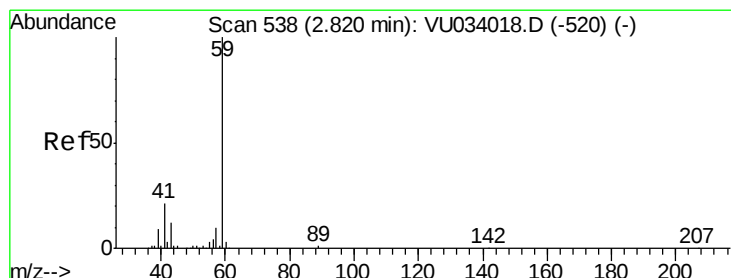
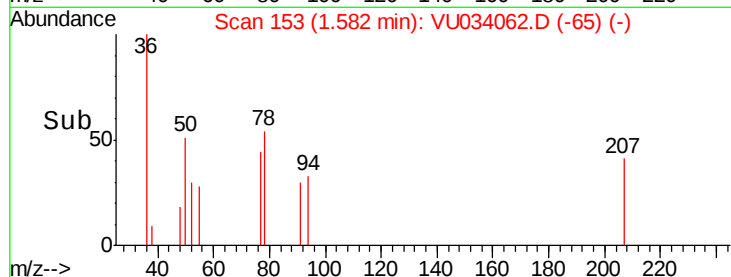
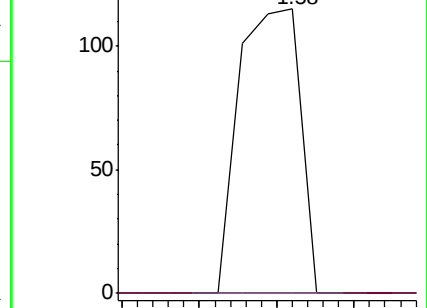
94 100

96 0.0 76.3 114.5#



Abundance Ion 93.90 (93.60 to 94.60): VU0

Ion 95.90 (95.60 to 96.60): VU0



#11

Tert butyl alcohol

Concen: 2.223 ug/l

RT: 2.82 min Scan# 538

Delta R.T. 0.00 min

Lab File: VU034062.D

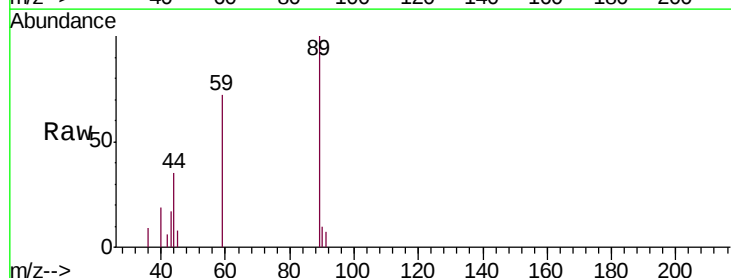
Acq: 29 Aug 2019 15:17

Tgt Ion: 59 Resp: 3074

Ion Ratio Lower Upper

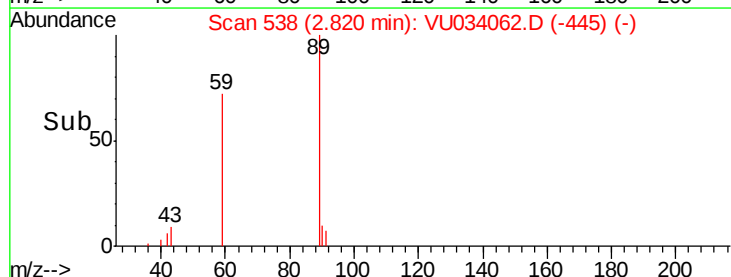
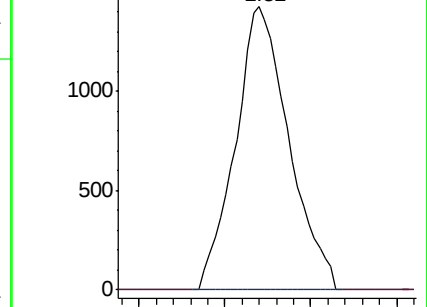
59 100

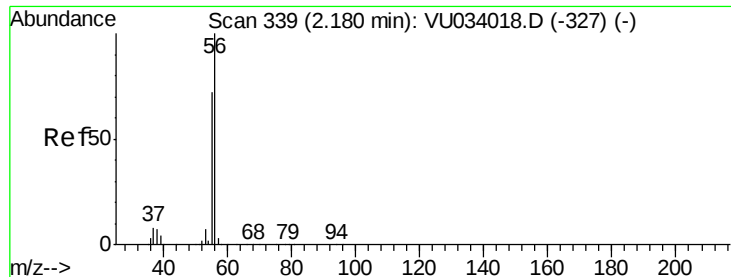
57 0.0 8.0 12.0#



Abundance Ion 59.00 (58.70 to 59.70): VU0

Ion 57.00 (56.70 to 57.70): VU0





#13

Acrolein

Concen: 0.486 ug/l

RT: 2.19 min Scan# 343

Delta R.T. 0.01 min

Lab File: VU034062.D

Acq: 29 Aug 2019 15:17

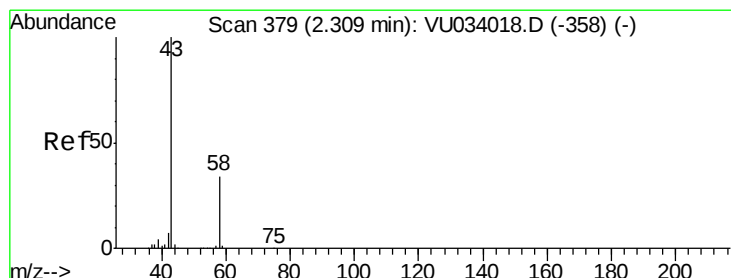
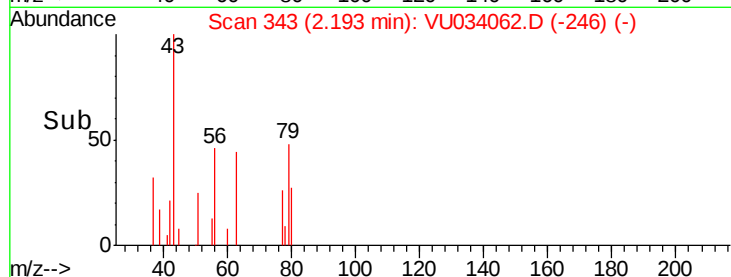
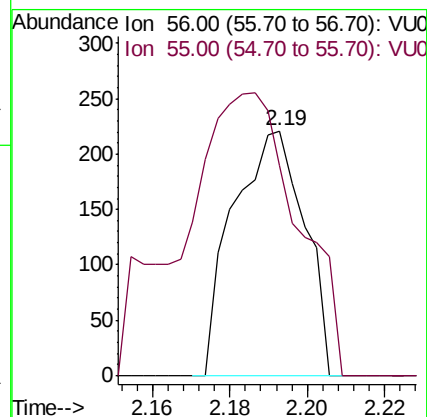
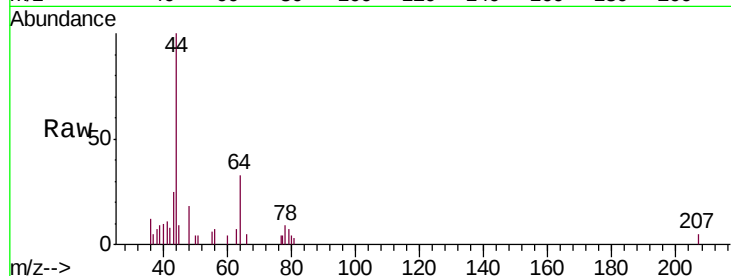
Instrument :  
MSVOA\_U  
ClientSampleId :

Tot Ion: 56 Resp: 283

Ion Ratio Lower Upper

56 100

55 159.7 57.1 85.7#



#16

Acetone

Concen: 4.304 ug/l

RT: 2.31 min Scan# 380

Delta R.T. 0.00 min

Lab File: VU034062.D

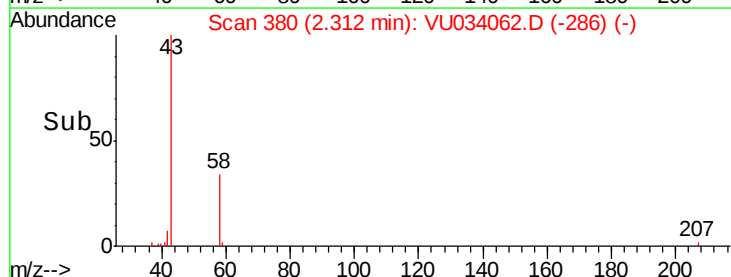
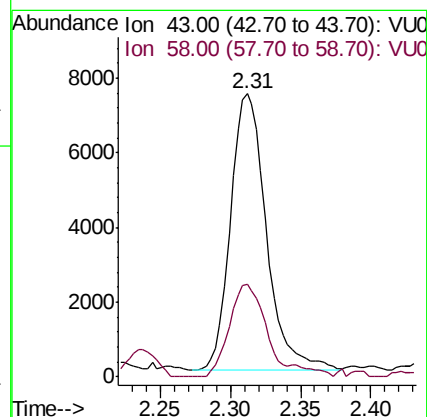
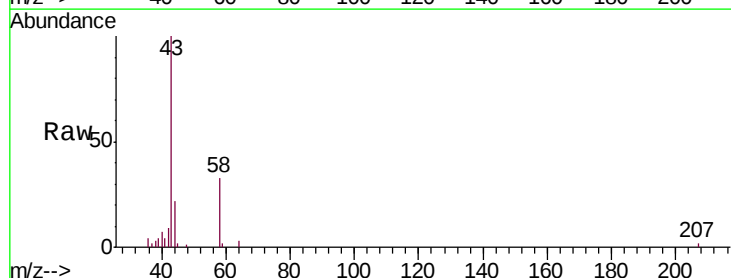
Acq: 29 Aug 2019 15:17

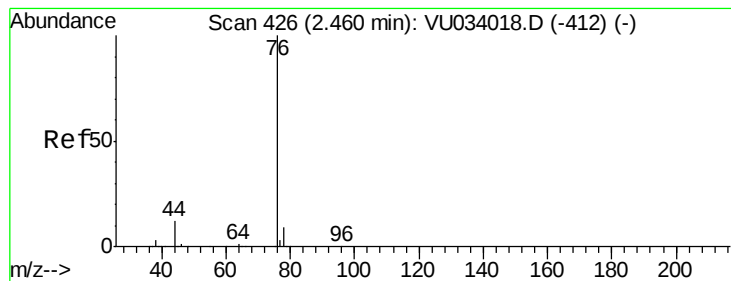
Tgt Ion: 43 Resp: 13170

Ion Ratio Lower Upper

43 100

58 33.4 26.8 40.2





#17

Carbon Disulfide

Concen: 0.203 ug/l

RT: 2.46 min Scan# 427

Delta R.T. 0.00 min

Lab File: VU034062.D

Acq: 29 Aug 2019 15:17

Instrument :

MSVOA\_U

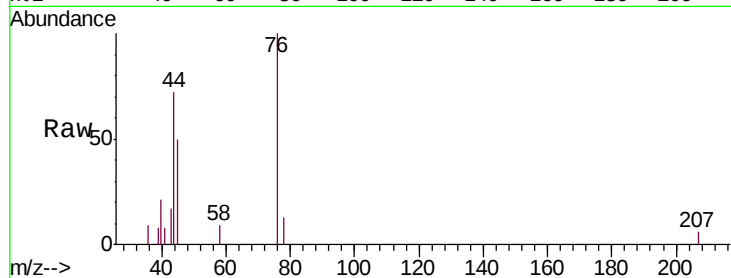
ClientSampleId :

Tot Ion: 76 Resp: 3005

Ion Ratio Lower Upper

76 100

78 12.7 7.1 10.7#



Abundance Ion 75.90 (75.60 to 76.60): VU034018.D (-412) (-)

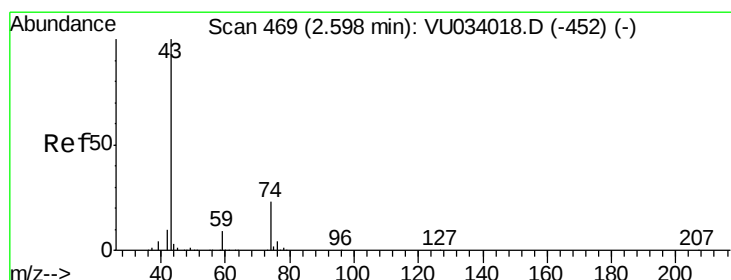
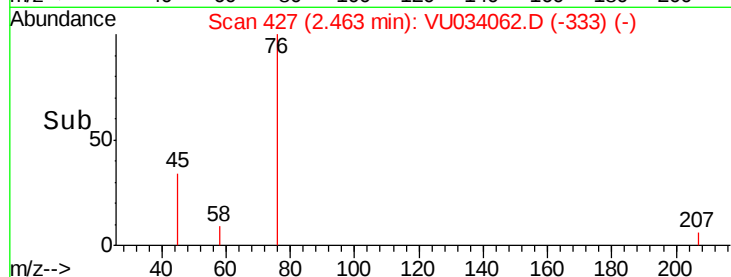
Ion 77.90 (77.60 to 78.60): VU034018.D (-412) (-)

2.46

2.45

2.50

Time-->



#18

Methyl Acetate

Concen: 0.476 ug/l

RT: 2.61 min Scan# 473

Delta R.T. 0.01 min

Lab File: VU034062.D

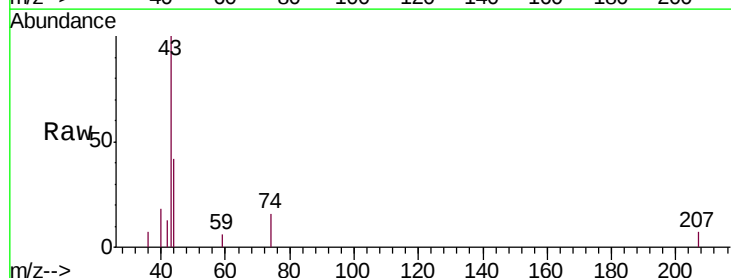
Acq: 29 Aug 2019 15:17

Tgt Ion: 43 Resp: 3764

Ion Ratio Lower Upper

43 100

74 15.4 19.2 28.8#



Abundance Ion 43.00 (42.70 to 43.70): VU034018.D (-452) (-)

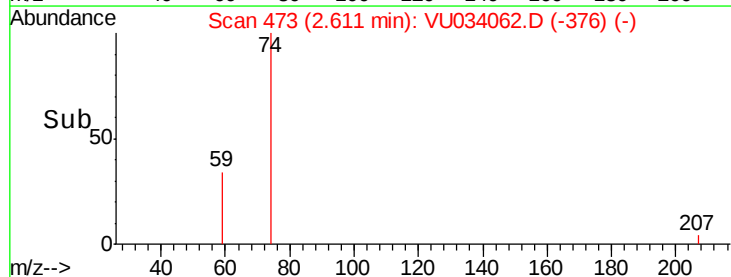
Ion 74.00 (73.70 to 74.70): VU034018.D (-452) (-)

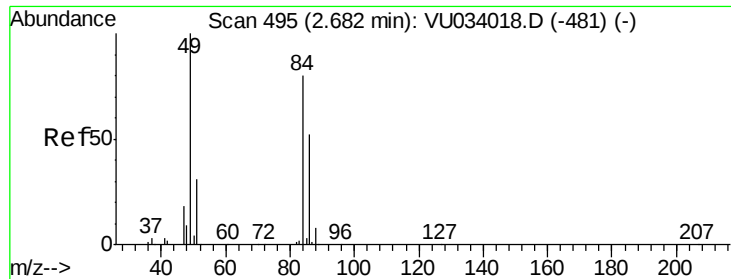
2.61

2.55

2.65

Time-->

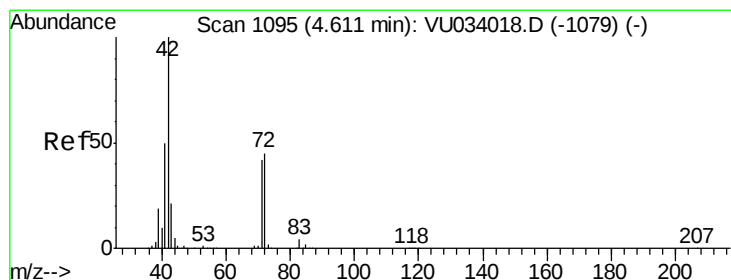
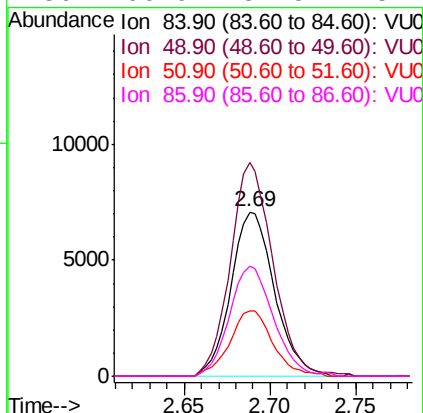
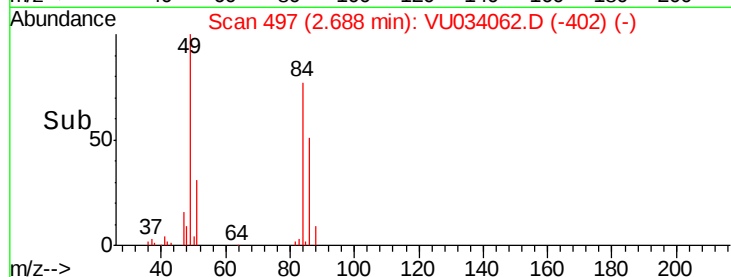
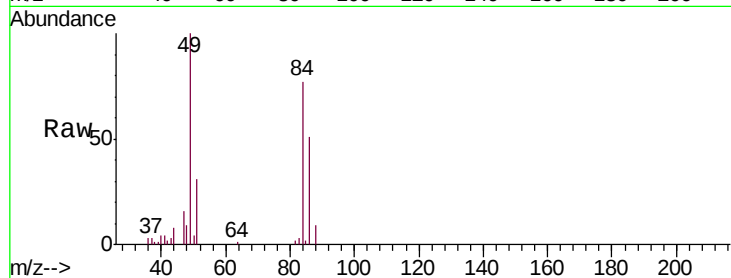




#20  
Methylene Chloride  
Concen: 2.151 ug/l  
RT: 2.69 min Scan# 497  
Delta R.T. 0.01 min  
Lab File: VU034062.D  
Acq: 29 Aug 2019 15:17

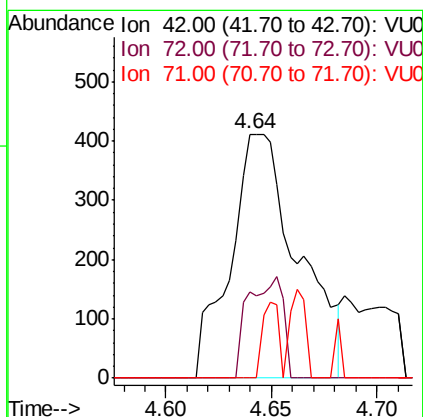
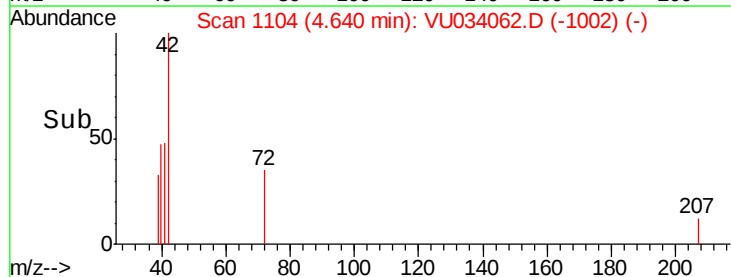
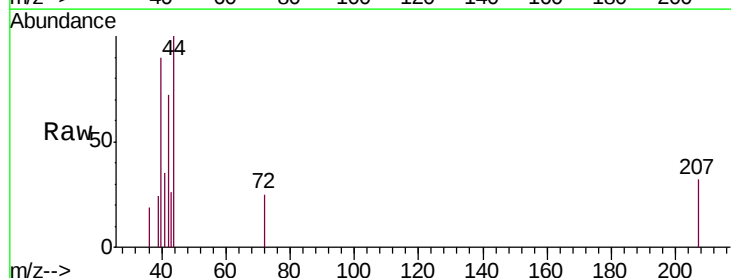
Instrument :  
MSVOA\_U  
ClientSampleId :

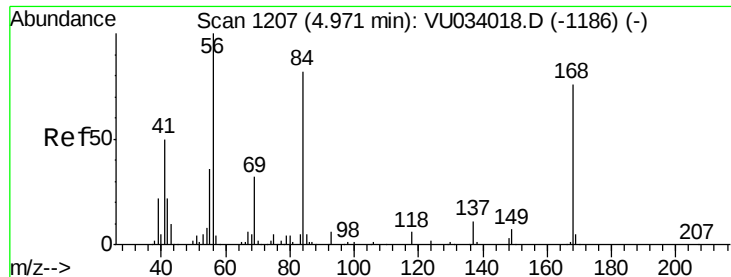
|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 84    | Resp: | 12464 |
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 49       | 130.3 | 100.2 | 150.4 |
| 51       | 40.2  | 30.8  | 46.2  |
| 86       | 66.9  | 52.5  | 78.7  |



#29  
Tetrahydrofuran  
Concen: 0.352 ug/l  
RT: 4.64 min Scan# 1104  
Delta R.T. 0.03 min  
Lab File: VU034062.D  
Acq: 29 Aug 2019 15:17

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 42    | Resp: | 924   |
| Ion      | Ratio | Lower | Upper |
| 42       | 100   |       |       |
| 72       | 21.3  | 35.8  | 53.6# |
| 71       | 7.5   | 34.0  | 51.0# |





#31

Cyclohexane

Concen: 0.980 ug/l

RT: 4.96 min Scan# 1203

Delta R.T. -0.01 min

Lab File: VU034062.D

Acq: 29 Aug 2019 15:17

Instrument :  
MSVOA\_U  
ClientSampleId :

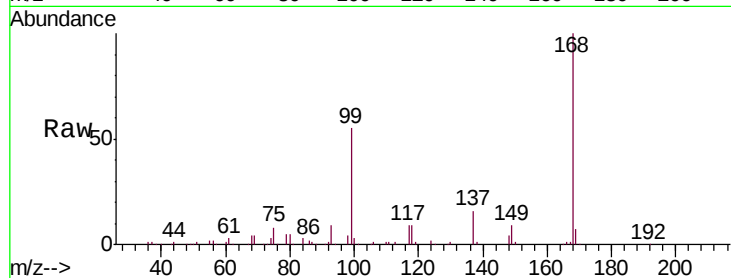
Tot Ion: 56 Resp: 8780

Ion Ratio Lower Upper

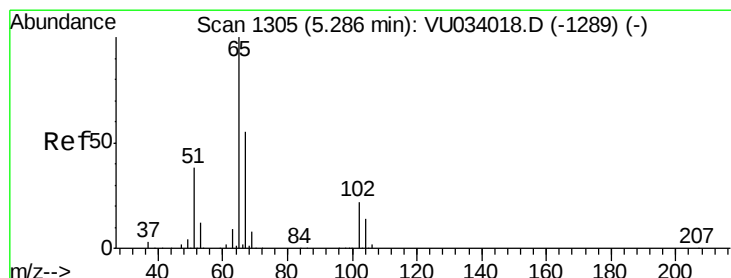
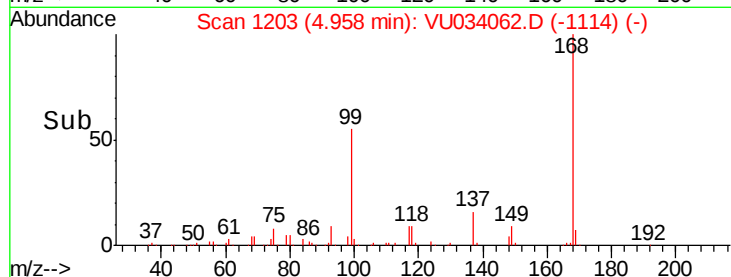
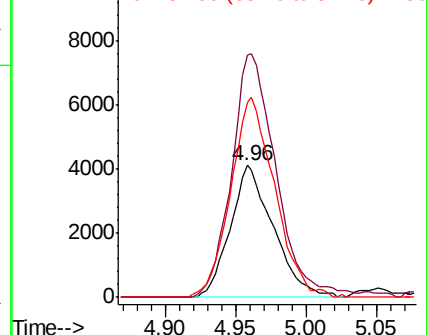
56 100

69 183.4 25.4 38.0#

84 145.3 65.8 98.8#



Abundance Ion 56.00 (55.70 to 56.70): VU0  
Ion 69.00 (68.70 to 69.70): VU0  
Ion 84.00 (83.70 to 84.70): VU0



#33

1,2-Dichloroethane-d4

Concen: 49.129 ug/l

RT: 5.29 min Scan# 1306

Delta R.T. 0.00 min

Lab File: VU034062.D

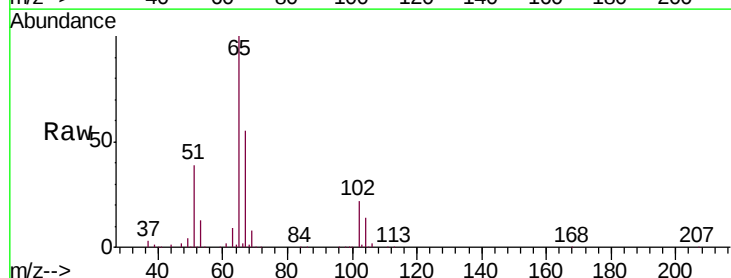
Acq: 29 Aug 2019 15:17

Tgt Ion: 65 Resp: 294653

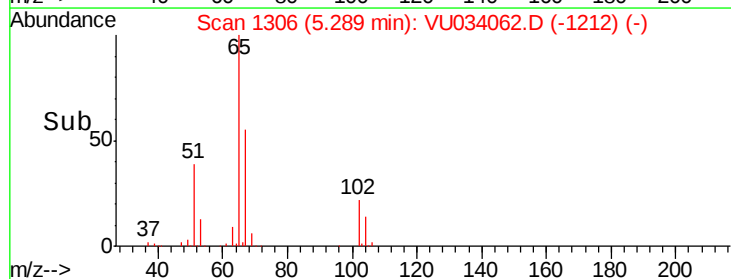
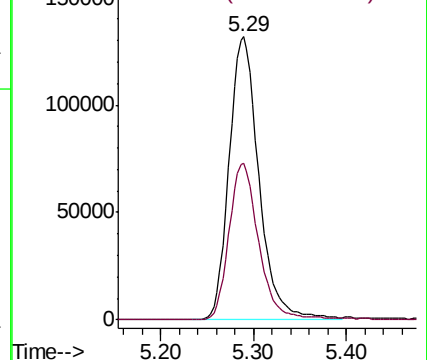
Ion Ratio Lower Upper

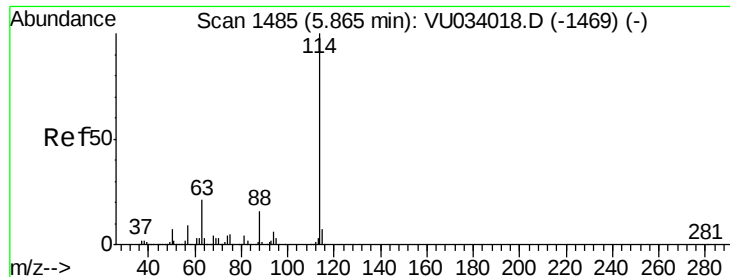
65 100

67 55.0 0.0 110.6



Abundance Ion 64.90 (64.60 to 65.60): VU0  
Ion 66.90 (66.60 to 67.60): VU0

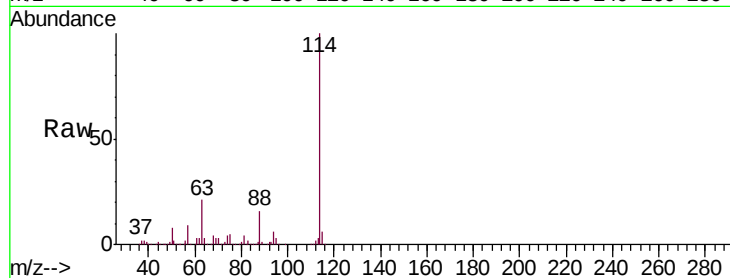




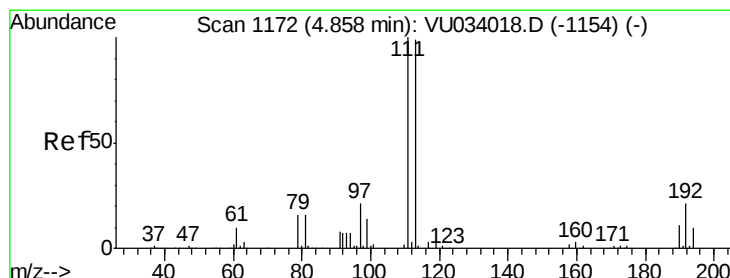
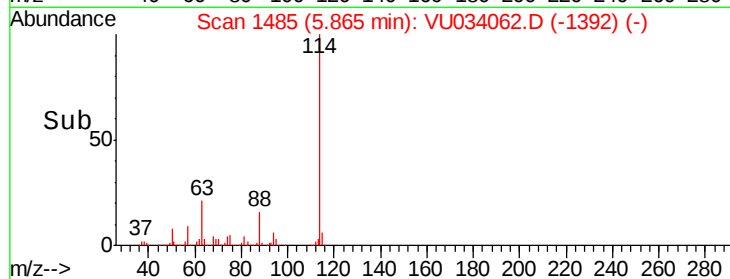
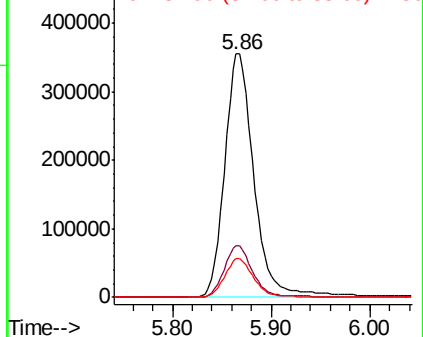
#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 5.86 min Scan# 1485  
 Delta R.T. 0.00 min  
 Lab File: VU034062.D  
 Acq: 29 Aug 2019 15:17

Instrument :  
 MSVOA\_U  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 114     | 100   |       |       |
| 63      | 21.1  | 0.0   | 42.0  |
| 88      | 16.1  | 0.0   | 32.0  |

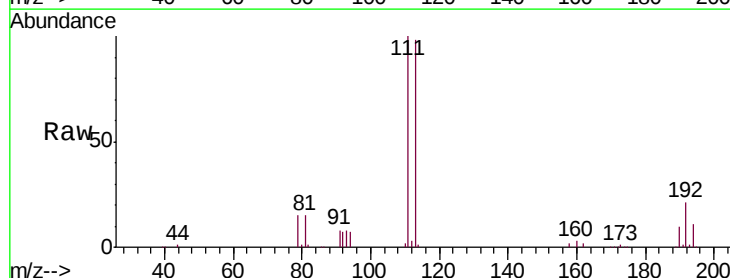


Abundance Ion 113.90 (113.60 to 114.60): V  
 Ion 63.00 (62.70 to 63.70): VU0  
 Ion 87.90 (87.60 to 88.60): VU0

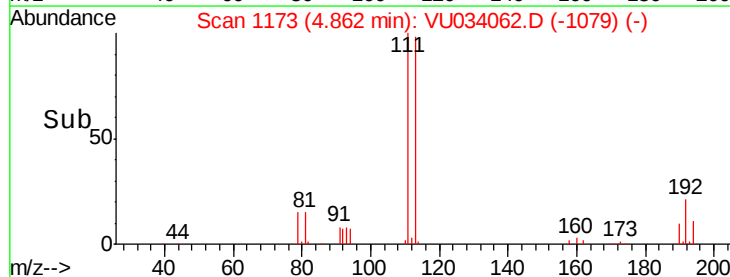
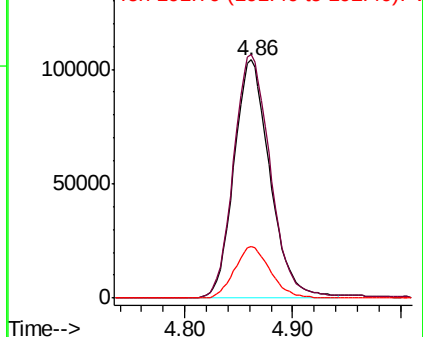


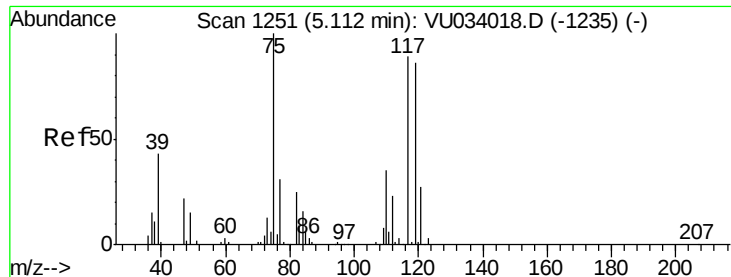
#35  
 Dibromofluoromethane  
 Concen: 47.303 ug/l  
 RT: 4.86 min Scan# 1173  
 Delta R.T. 0.00 min  
 Lab File: VU034062.D  
 Acq: 29 Aug 2019 15:17

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 105.6 | 81.7  | 122.5 |
| 192     | 21.6  | 17.1  | 25.7  |



Abundance Ion 112.80 (112.50 to 113.50): V  
 Ion 110.80 (110.50 to 111.50): V  
 Ion 191.70 (191.40 to 192.40): V

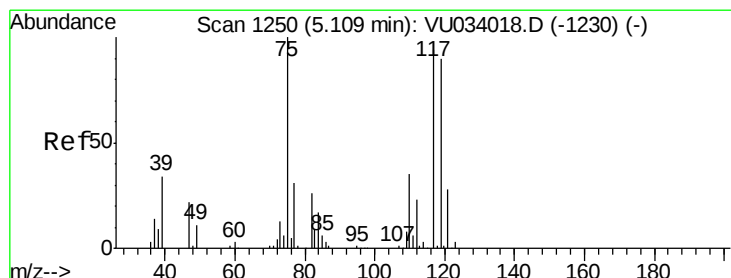
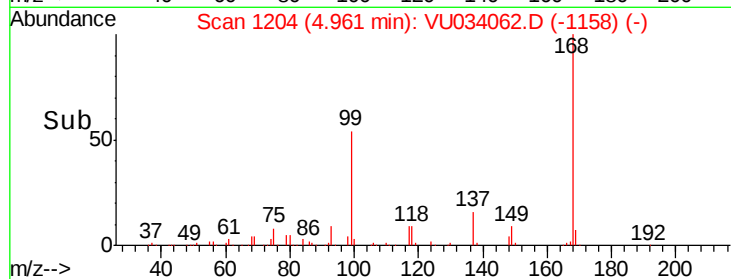
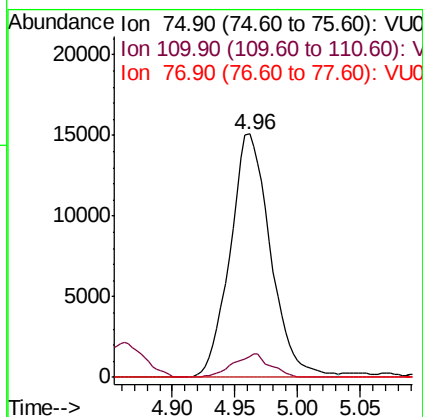
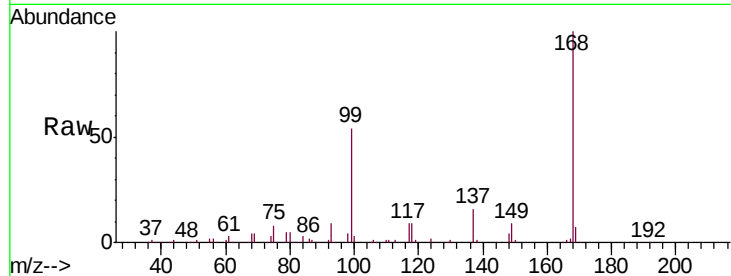




#36  
 1,1-Dichloropropene  
 Concen: 4.846 ug/l  
 RT: 4.96 min Scan# 1204  
 Delta R.T. -0.15 min  
 Lab File: VU034062.D  
 Acq: 29 Aug 2019 15:17

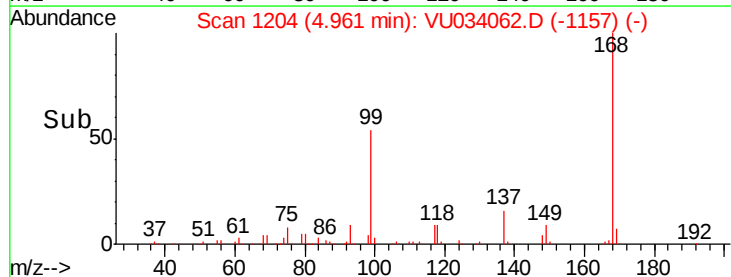
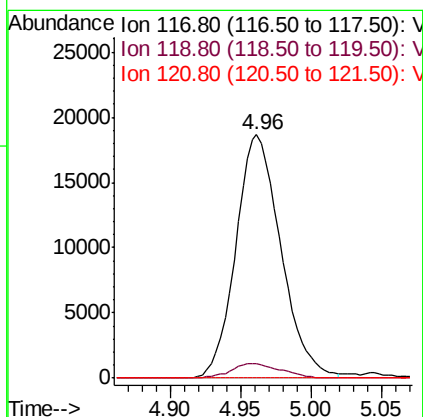
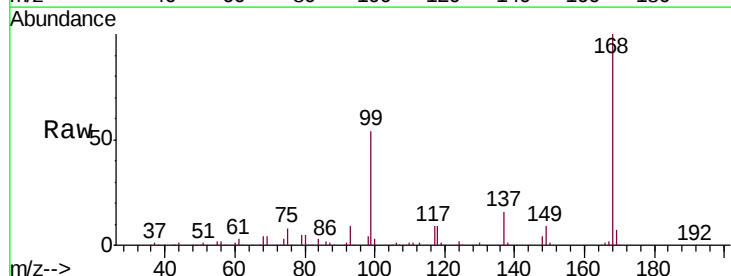
Instrument :  
 MSVOA\_U  
 ClientSampleId :

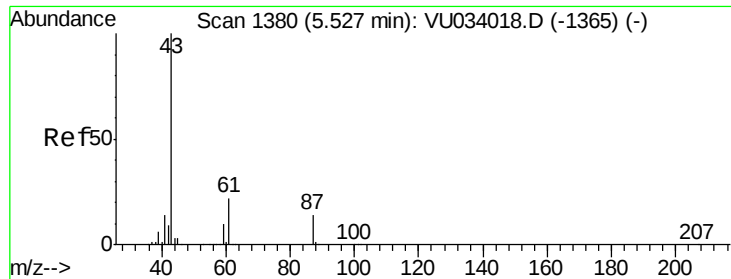
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 8.8   | 17.8  | 53.5# |
| 77      | 0.0   | 25.0  | 37.4# |



#38  
 Carbon Tetrachloride  
 Concen: 6.213 ug/l  
 RT: 4.96 min Scan# 1204  
 Delta R.T. -0.15 min  
 Lab File: VU034062.D  
 Acq: 29 Aug 2019 15:17

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 117     | 100   |       |        |
| 119     | 5.7   | 77.0  | 115.4# |
| 121     | 0.0   | 23.9  | 35.9#  |

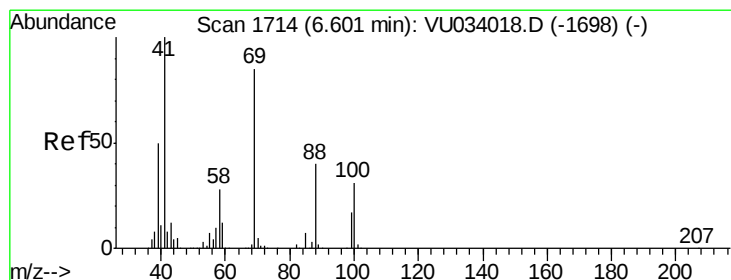
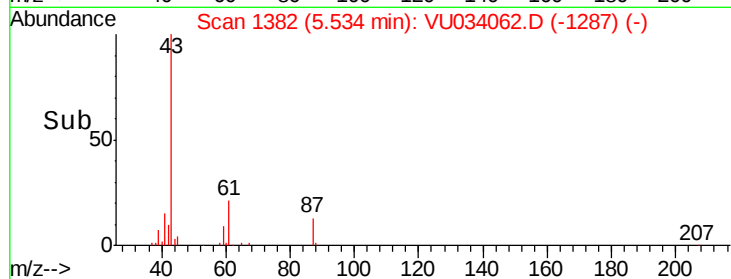
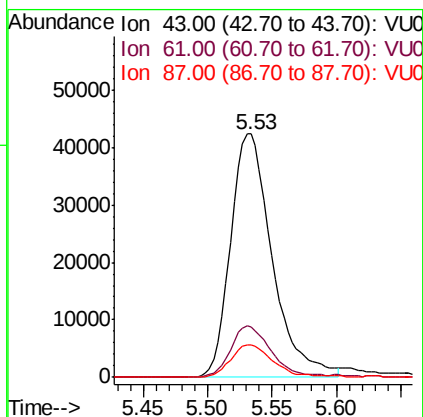
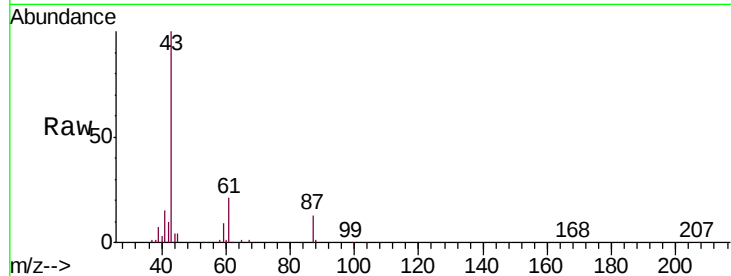




#43  
Isopropyl Acetate  
Concen: 8.032 ug/l  
RT: 5.53 min Scan# 1382  
Delta R.T. 0.01 min  
Lab File: VU034062.D  
Acq: 29 Aug 2019 15:17

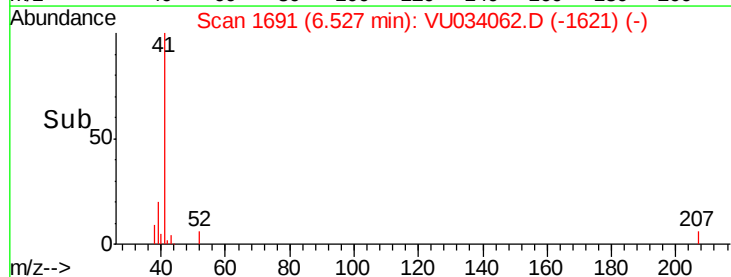
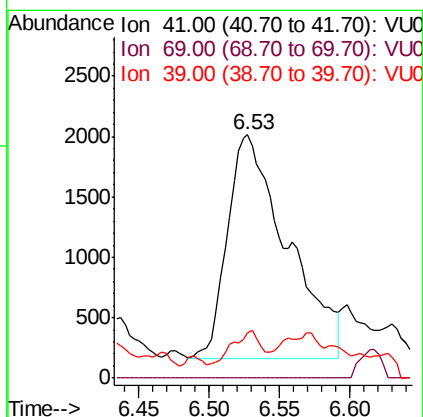
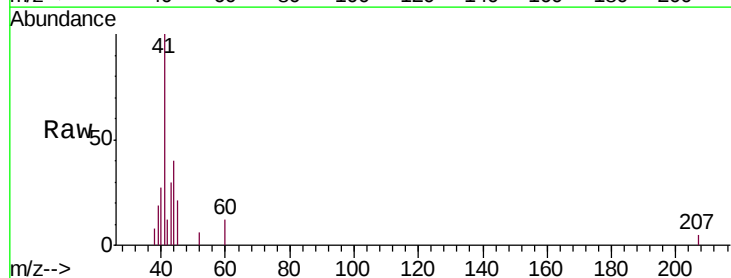
Instrument :  
MSVOA\_U  
ClientSampled :

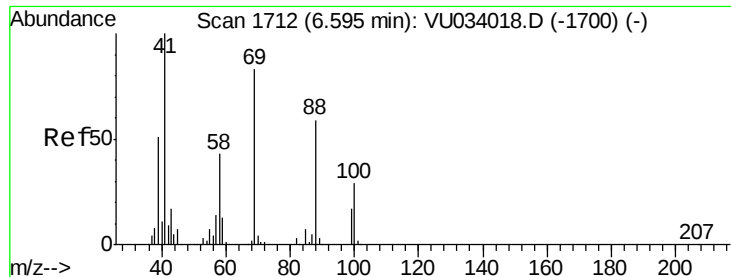
Tot Ion: 43 Resp: 95248  
Ion Ratio Lower Upper  
43 100  
61 20.7 17.2 25.8  
87 13.4 10.8 16.2



#48  
Methyl methacrylate  
Concen: 0.960 ug/l  
RT: 6.53 min Scan# 1691  
Delta R.T. -0.07 min  
Lab File: VU034062.D  
Acq: 29 Aug 2019 15:17

Tgt Ion: 41 Resp: 5491  
Ion Ratio Lower Upper  
41 100  
69 0.0 69.5 104.3#  
39 0.0 40.3 60.5#

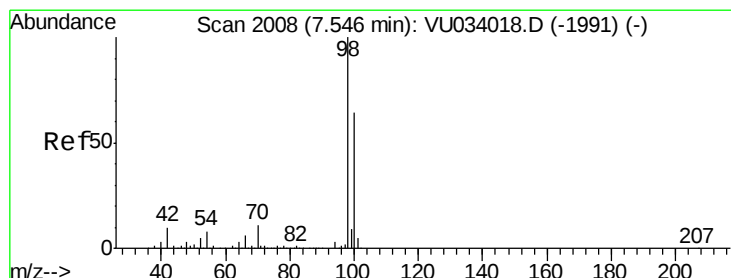
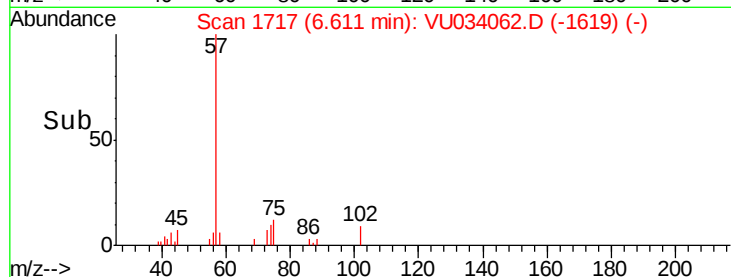
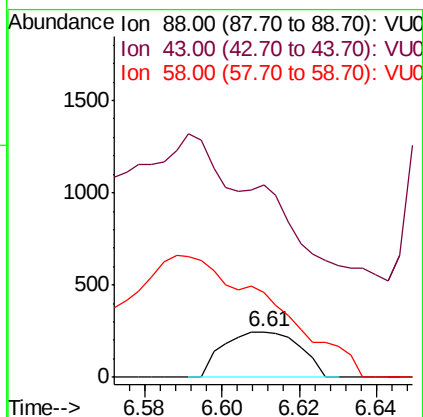
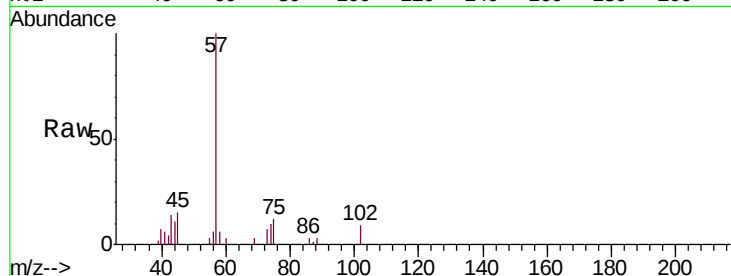




#49  
1,4-Dioxane  
Concen: 2.350 ug/l  
RT: 6.61 min Scan# 1717  
Delta R.T. 0.02 min  
Lab File: VU034062.D  
Acq: 29 Aug 2019 15:17

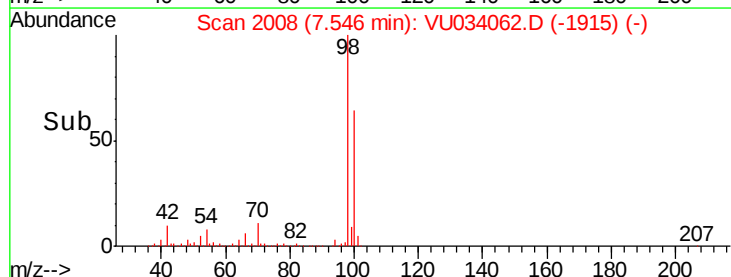
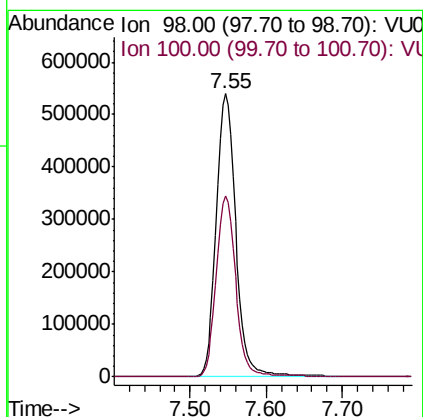
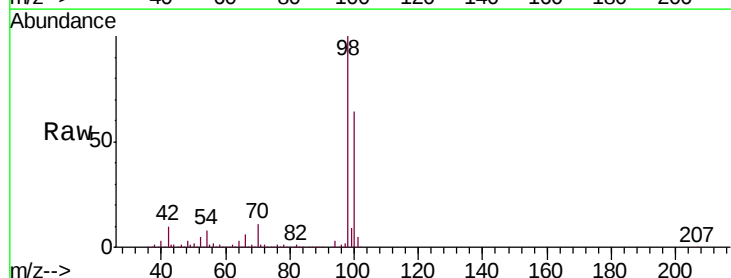
Instrument :  
MSVOA\_U  
ClientSampleId :

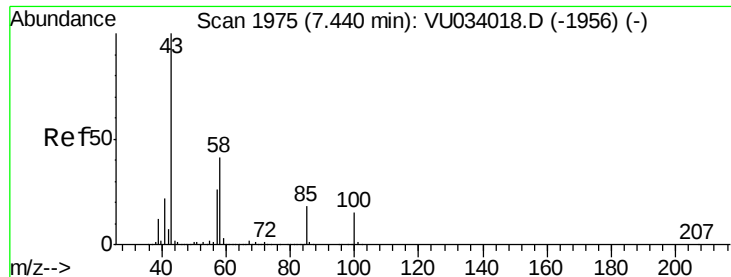
Tot Ion: 88 Resp: 337  
Ion Ratio Lower Upper  
88 100  
43 0.0 24.8 37.2#  
58 0.0 59.3 88.9#



#50  
Toluene-d8  
Concen: 50.819 ug/l  
RT: 7.55 min Scan# 2008  
Delta R.T. 0.00 min  
Lab File: VU034062.D  
Acq: 29 Aug 2019 15:17

Tgt Ion: 98 Resp: 971269  
Ion Ratio Lower Upper  
98 100  
100 63.9 50.3 75.5

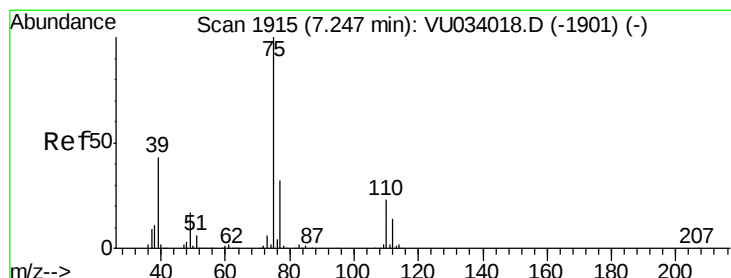
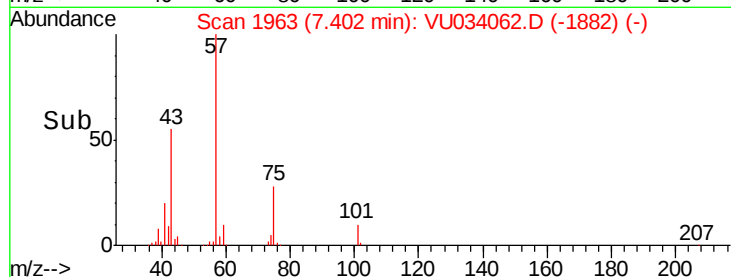
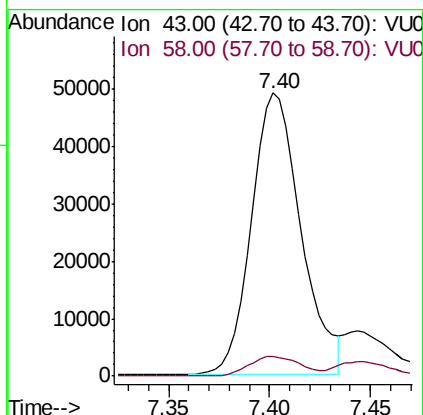
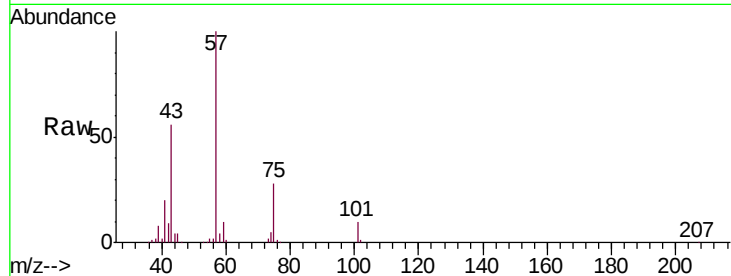




#51  
 4-Methyl-2-Pentanone  
 Concen: 10.242 ug/l  
 RT: 7.40 min Scan# 1963  
 Delta R.T. -0.04 min  
 Lab File: VU034062.D  
 Acq: 29 Aug 2019 15:17

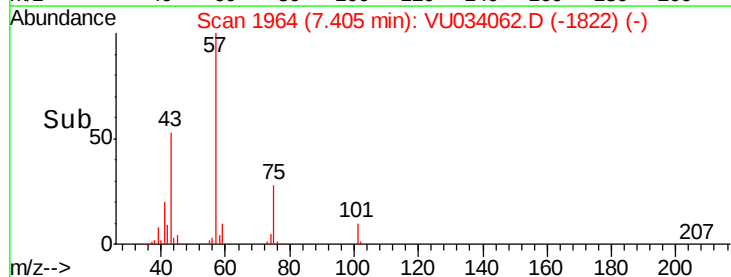
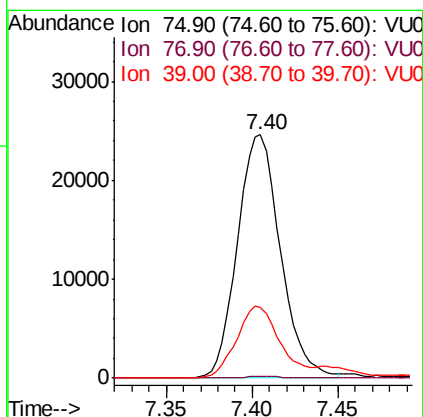
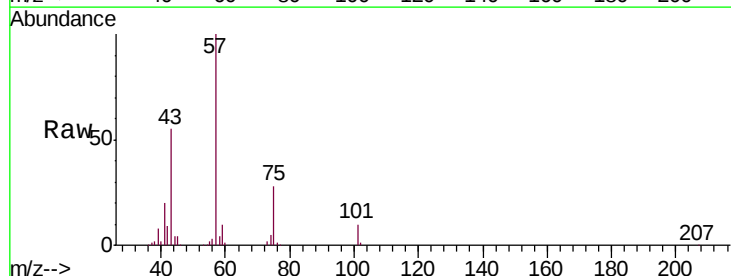
Instrument :  
 MSVOA\_U  
 ClientSampleId :

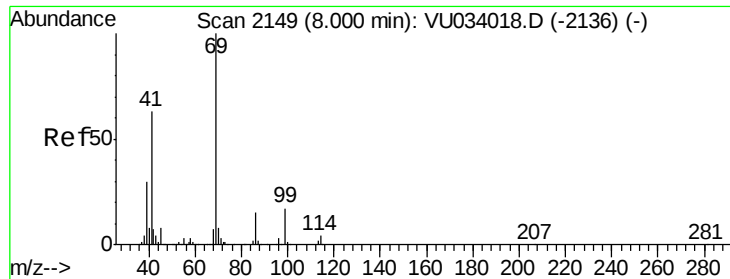
Tot Ion: 43 Resp: 83879  
 Ion Ratio Lower Upper  
 43 100  
 58 7.3 32.2 48.4#



#54  
 cis-1,3-Dichloropropene  
 Concen: 4.823 ug/l  
 RT: 7.40 min Scan# 1964  
 Delta R.T. 0.16 min  
 Lab File: VU034062.D  
 Acq: 29 Aug 2019 15:17

Tgt Ion: 75 Resp: 42722  
 Ion Ratio Lower Upper  
 75 100  
 77 0.6 25.2 37.8#  
 39 29.1 34.6 51.8#





#56

Ethyl methacrylate

Concen: 1.077 ug/l

RT: 8.02 min Scan# 2156

Delta R.T. 0.02 min

Lab File: VU034062.D

Acq: 29 Aug 2019 15:17

Instrument :

MSVOA\_U

ClientSampleId :

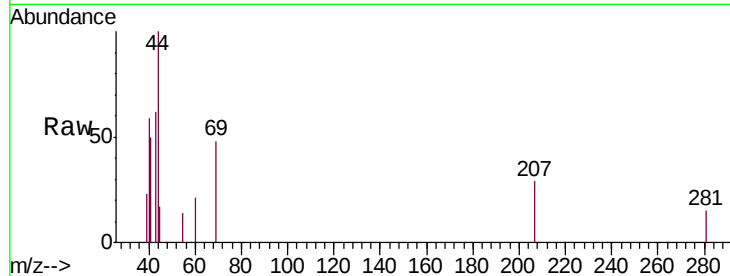
Tot Ion: 69 Resp: 983

Ion Ratio Lower Upper

69 100

41 0.0 50.7 76.1#

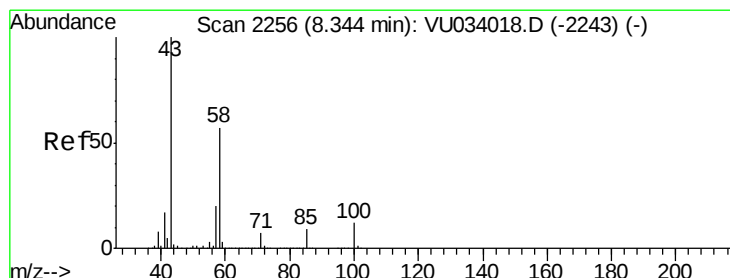
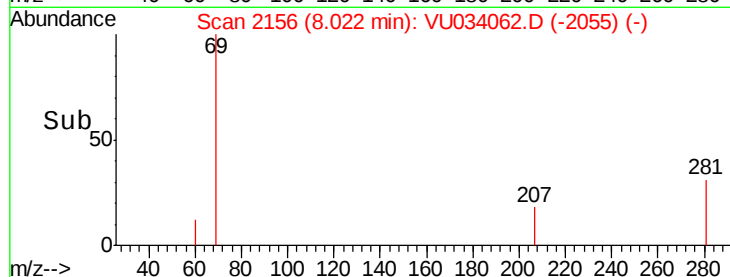
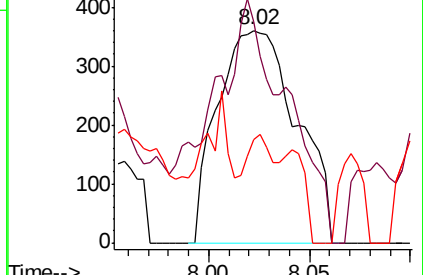
39 0.0 24.2 36.2#



Abundance Ion 69.00 (68.70 to 69.70): VU034062.D (-2156) (-)

Ion 41.00 (40.70 to 41.70): VU034062.D (-2156) (-)

Ion 39.00 (38.70 to 39.70): VU034062.D (-2156) (-)



#59

2-Hexanone

Concen: 15.794 ug/l

RT: 8.30 min Scan# 2241

Delta R.T. -0.05 min

Lab File: VU034062.D

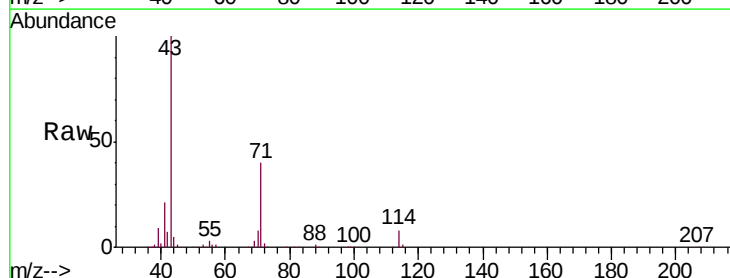
Acq: 29 Aug 2019 15:17

Tgt Ion: 43 Resp: 97647

Ion Ratio Lower Upper

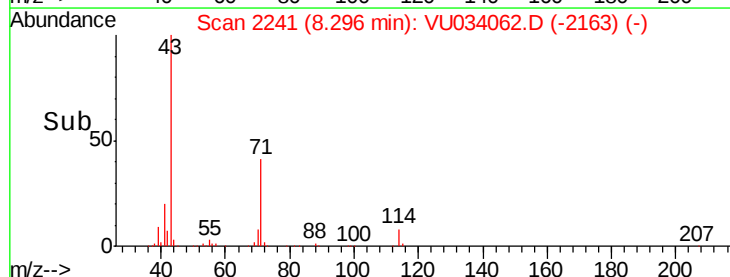
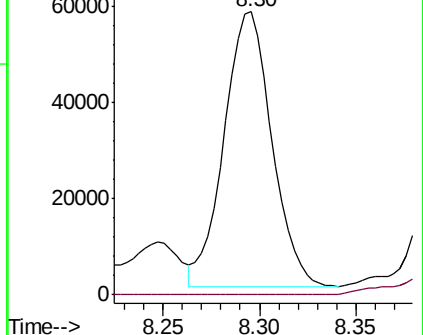
43 100

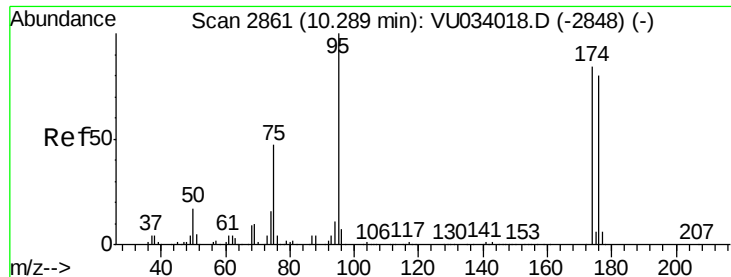
58 0.0 28.4 85.3#



Abundance Ion 43.00 (42.70 to 43.70): VU034062.D (-2241) (-)

Ion 58.00 (57.70 to 58.70): VU034062.D (-2241) (-)





#62

4-Bromofluorobenzene

Concen: 45.600 ug/l

RT: 10.29 min Scan# 2861

Delta R.T. 0.00 min

Lab File: VU034062.D

Acq: 29 Aug 2019 15:17

Instrument :

MSVOA\_U

ClientSampleId :

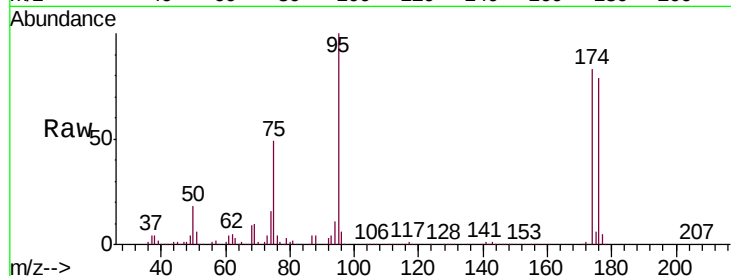
Tot Ion: 95 Resp: 339013

Ion Ratio Lower Upper

95 100

174 84.5 0.0 168.8

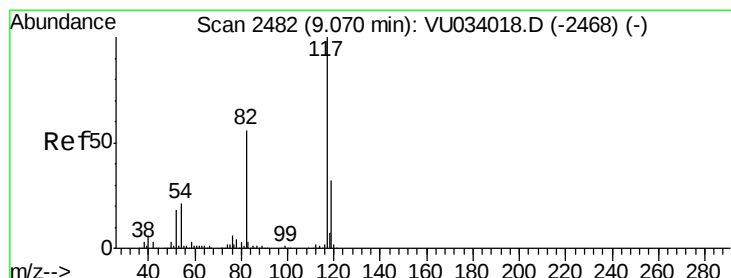
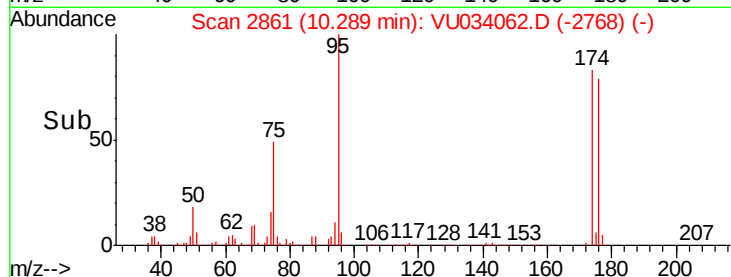
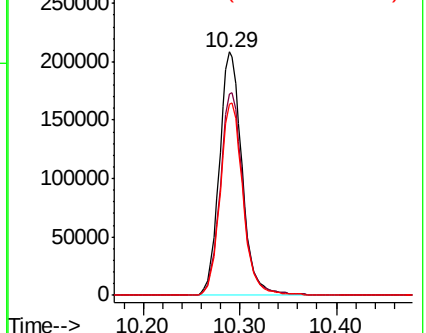
176 79.5 0.0 161.8



Abundance Ion 94.90 (94.60 to 95.60): VU0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.07 min Scan# 2482

Delta R.T. 0.00 min

Lab File: VU034062.D

Acq: 29 Aug 2019 15:17

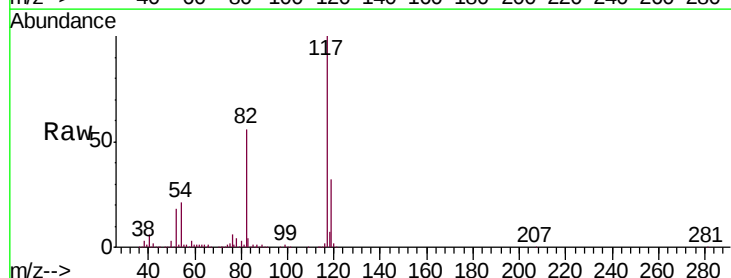
Tgt Ion: 117 Resp: 733120

Ion Ratio Lower Upper

117 100

82 56.2 45.1 67.7

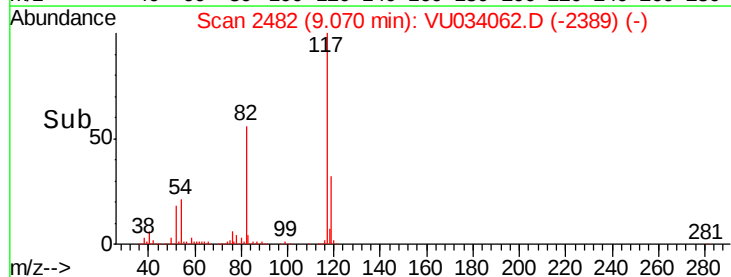
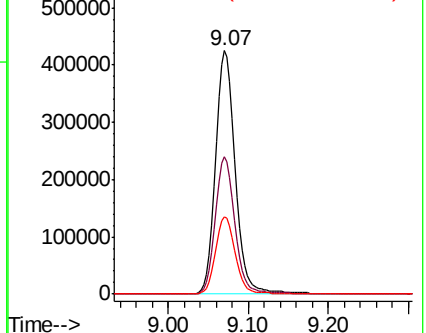
119 32.0 25.4 38.0

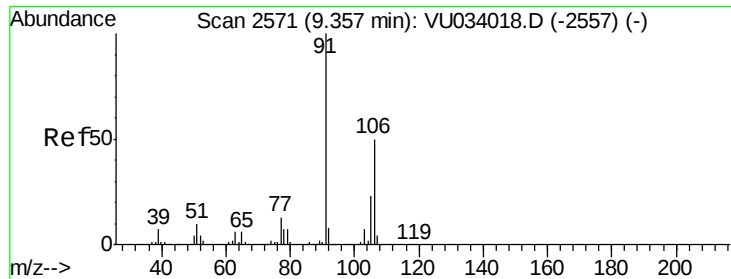


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VU0

Ion 118.90 (118.60 to 119.60): V

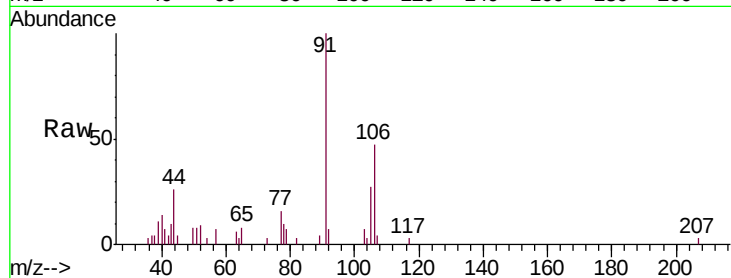




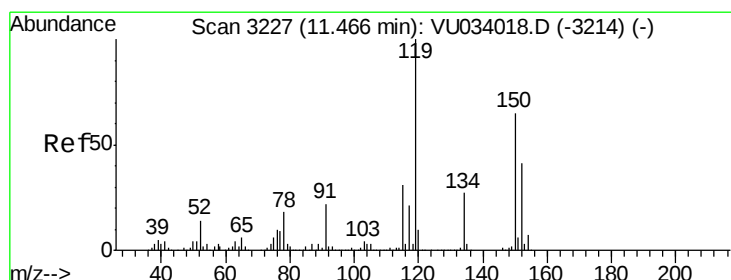
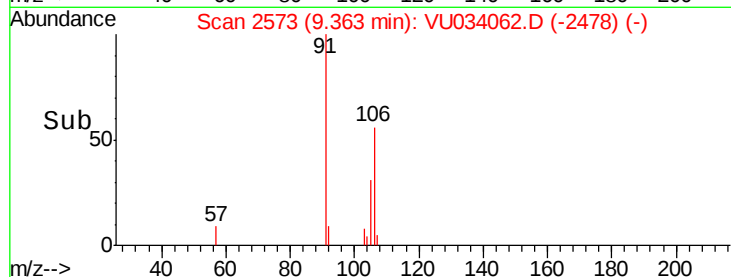
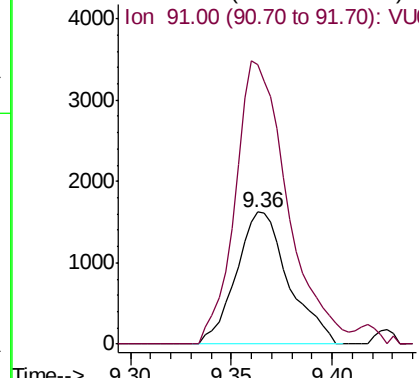
#68  
m/p-Xvlenes  
Concen: 0.303 ug/l  
RT: 9.36 min Scan# 2573  
Delta R.T. 0.01 min  
Lab File: VU034062.D  
Acq: 29 Aug 2019 15:17

Instrument :  
MSVOA\_U  
ClientSampleId :

Tot Ion:106 Resp: 2943  
Ion Ratio Lower Upper  
106 100  
91 215.2 161.6 242.4

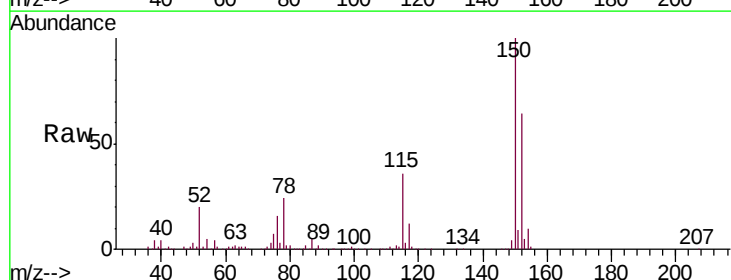


Abundance Ion 106.00 (105.70 to 106.70): V  
Ion 91.00 (90.70 to 91.70): VU0

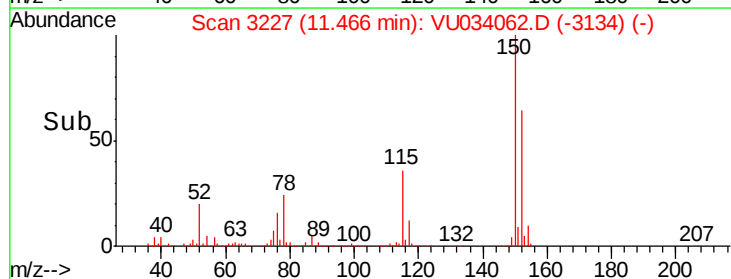
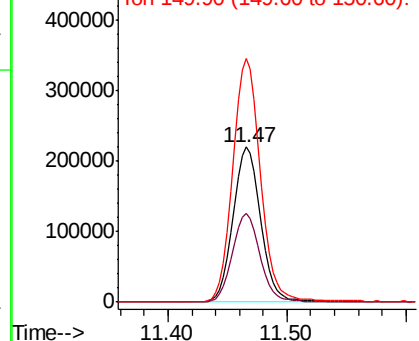


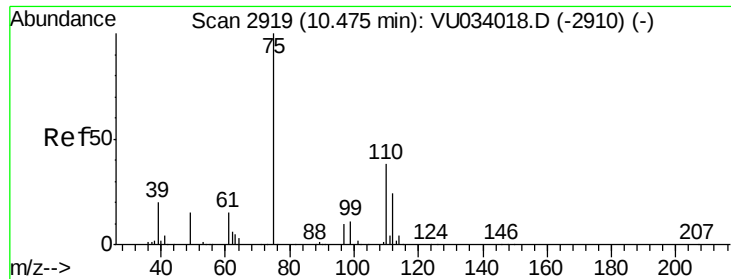
#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 11.47 min Scan# 3227  
Delta R.T. 0.00 min  
Lab File: VU034062.D  
Acq: 29 Aug 2019 15:17

Tgt Ion:152 Resp: 355828  
Ion Ratio Lower Upper  
152 100  
115 57.2 41.1 123.3  
150 156.5 0.0 348.8



Abundance Ion 151.90 (151.60 to 152.60): V  
Ion 114.90 (114.60 to 115.60): V  
Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 20.321 ug/l

RT: 10.29 min Scan# 2861

Delta R.T. -0.19 min

Lab File: VU034062.D

Acq: 29 Aug 2019 15:17

Instrument :

MSVOA\_U

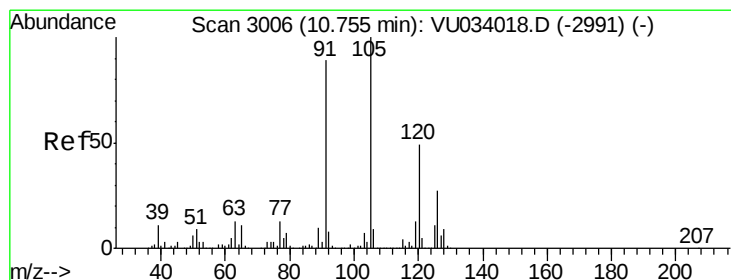
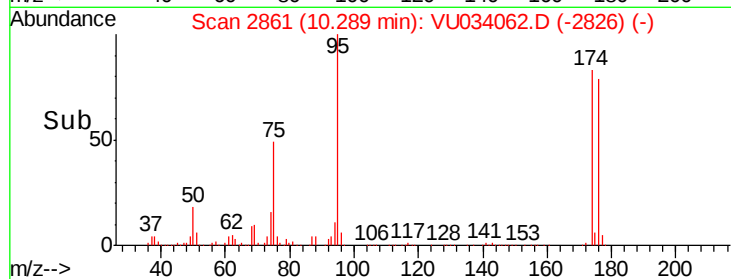
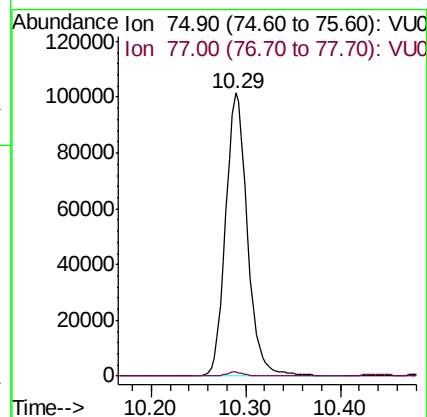
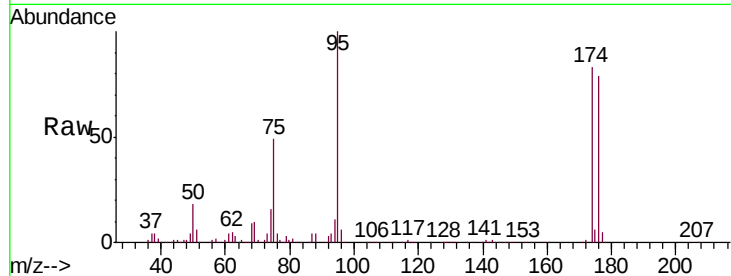
ClientSampleId :

Tot Ion: 75 Resp: 162969

Ion Ratio Lower Upper

75 100

77 1.3 20.1 60.2#



#80

1,3,5-Trimethylbenzene

Concen: 0.267 ug/l

RT: 10.76 min Scan# 3007

Delta R.T. 0.00 min

Lab File: VU034062.D

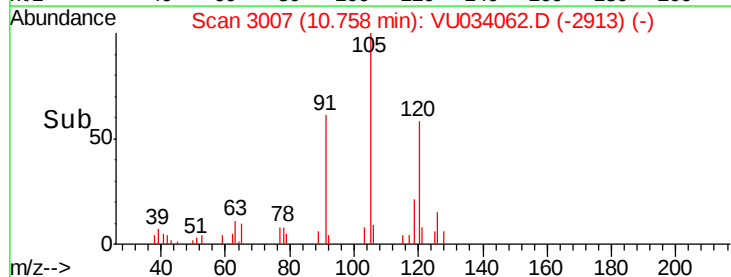
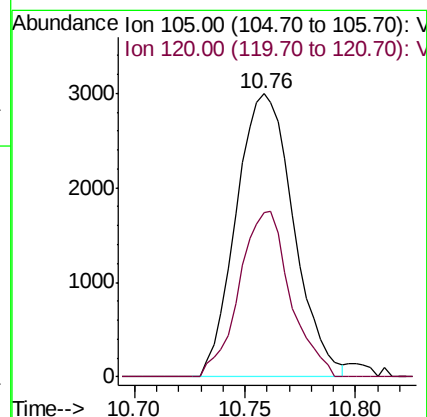
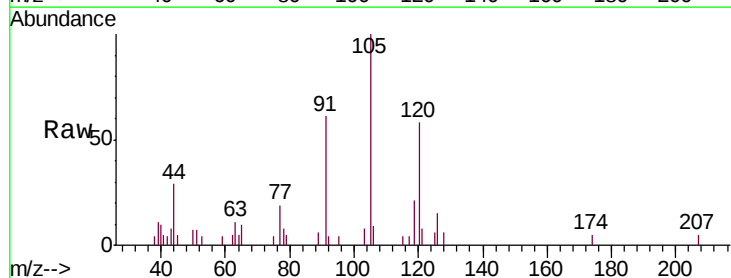
Acq: 29 Aug 2019 15:17

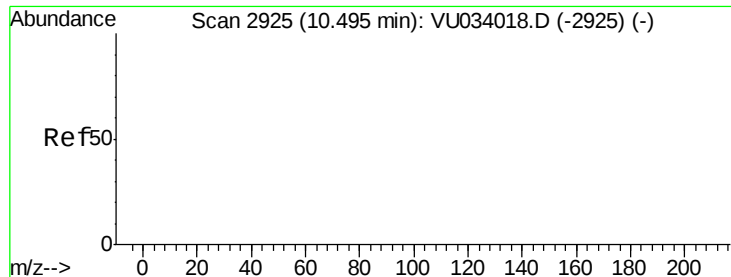
Tgt Ion: 105 Resp: 5400

Ion Ratio Lower Upper

105 100

120 52.1 24.6 73.6





#81

trans-1,4-Dichloro-2-butene

Concen: 68.426 ug/l

RT: 10.29 min Scan# 2861

Delta R.T. -0.21 min

Lab File: VU034062.D

Acq: 29 Aug 2019 15:17

Instrument :

MSVOA\_U

ClientSampleId :

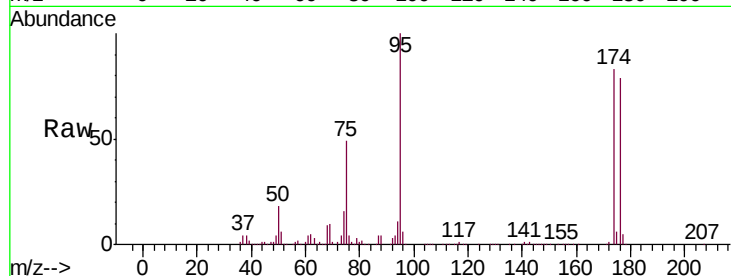
Tot Ion: 75 Resp: 162969

Ion Ratio Lower Upper

75 100

53 0.1 0.0 0.0#

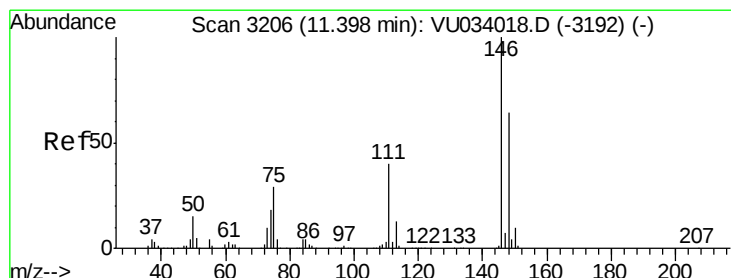
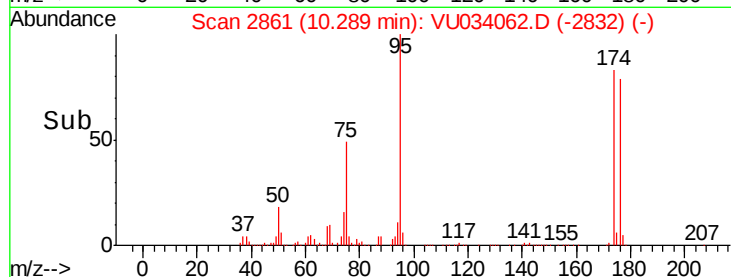
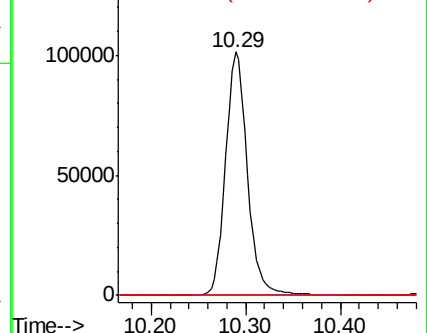
89 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VU034018.D (-2925) (-)

Ion 53.00 (52.70 to 53.70): VU034018.D (-2925) (-)

Ion 88.90 (88.60 to 89.60): VU034018.D (-2925) (-)



#87

1,3-Dichlorobenzene

Concen: 0.221 ug/l

RT: 11.40 min Scan# 3208

Delta R.T. 0.01 min

Lab File: VU034062.D

Acq: 29 Aug 2019 15:17

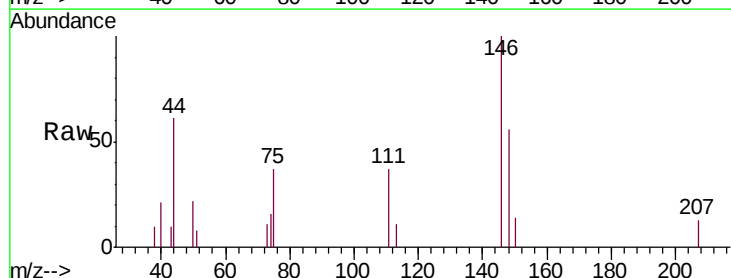
Tgt Ion: 146 Resp: 2515

Ion Ratio Lower Upper

146 100

111 33.2 19.9 59.6

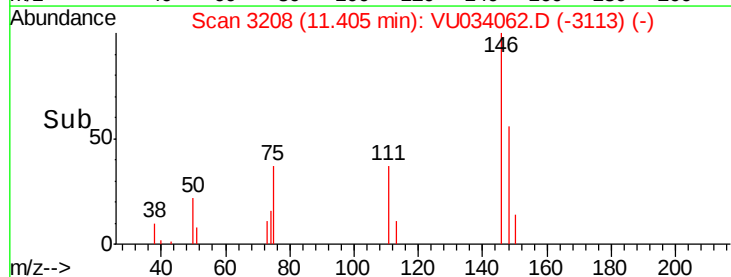
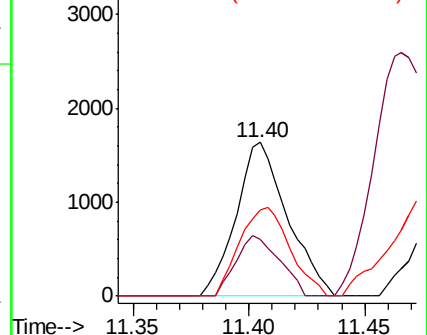
148 56.6 31.9 95.5

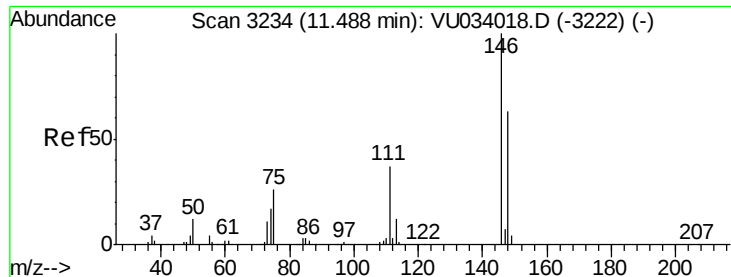


Abundance Ion 145.90 (145.60 to 146.60): VU034018.D (-3192) (-)

Ion 110.90 (110.60 to 111.60): VU034018.D (-3192) (-)

Ion 147.90 (147.60 to 148.60): VU034018.D (-3192) (-)

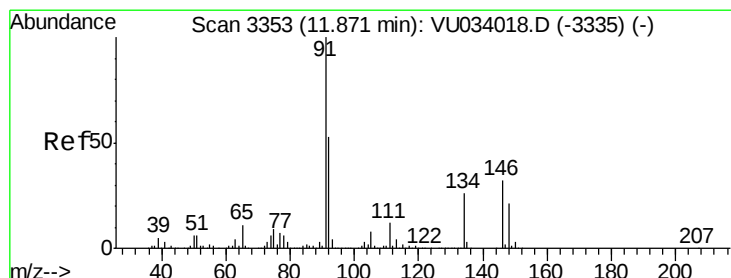
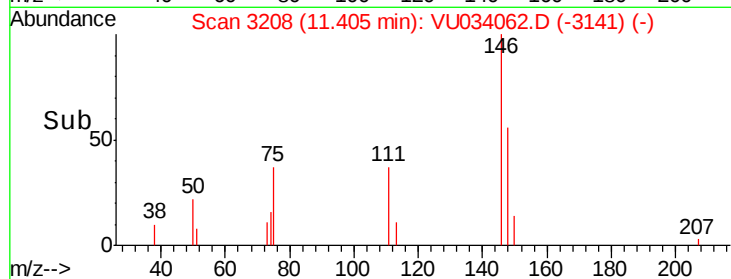
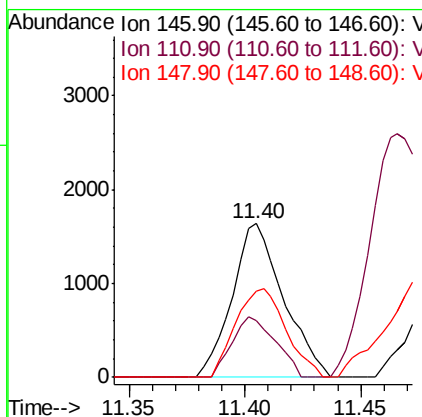
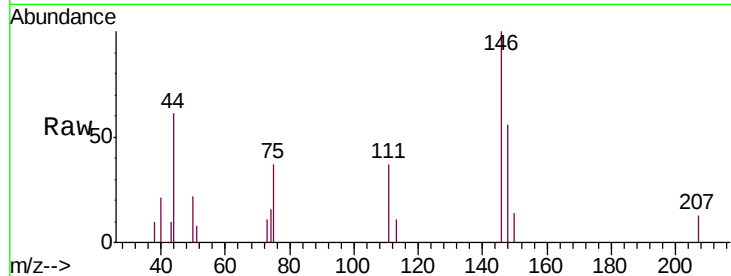




#88  
 1,4-Dichlorobenzene  
 Concen: 0.218 ug/l  
 RT: 11.40 min Scan# 3208  
 Delta R.T. -0.08 min  
 Lab File: VU034062.D  
 Acq: 29 Aug 2019 15:17

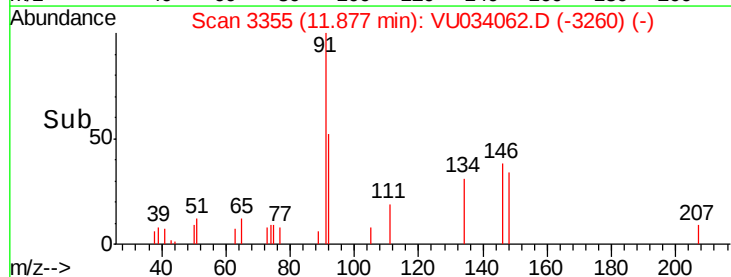
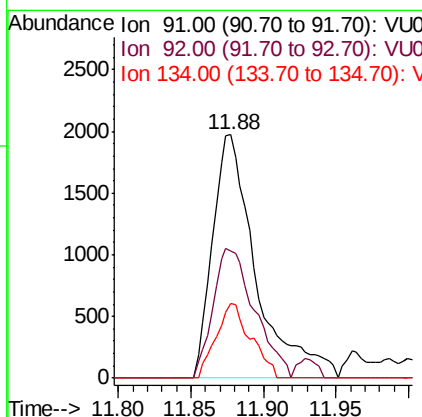
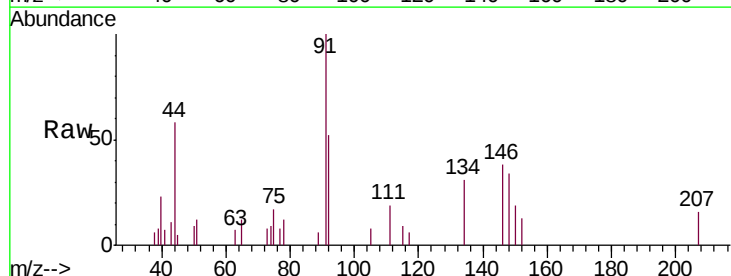
Instrument :  
 MSVOA\_U  
 ClientSampled :

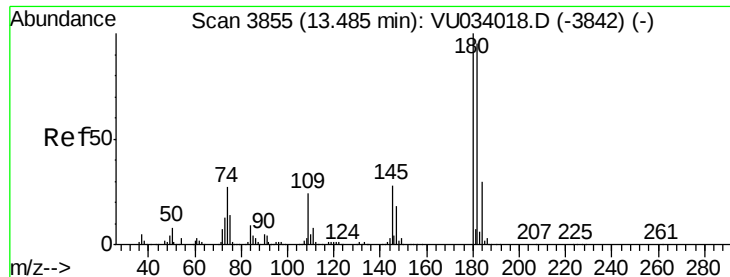
Tot Ion:146 Resp: 2515  
 Ion Ratio Lower Upper  
 146 100  
 111 33.2 19.2 57.6  
 148 56.6 31.9 95.9



#89  
 n-Butylbenzene  
 Concen: 0.215 ug/l  
 RT: 11.88 min Scan# 3355  
 Delta R.T. 0.01 min  
 Lab File: VU034062.D  
 Acq: 29 Aug 2019 15:17

Tgt Ion: 91 Resp: 4102  
 Ion Ratio Lower Upper  
 91 100  
 92 50.8 26.3 78.9  
 134 24.5 12.9 38.7

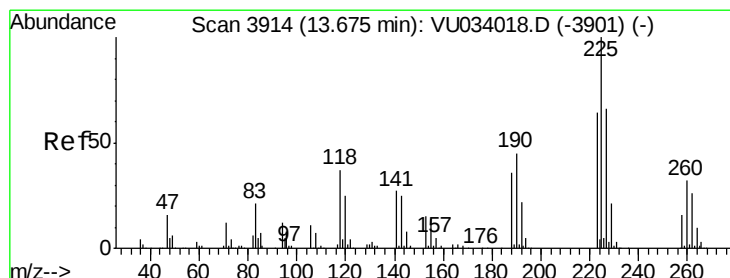
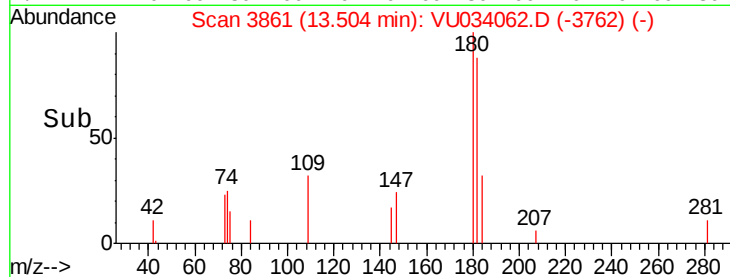
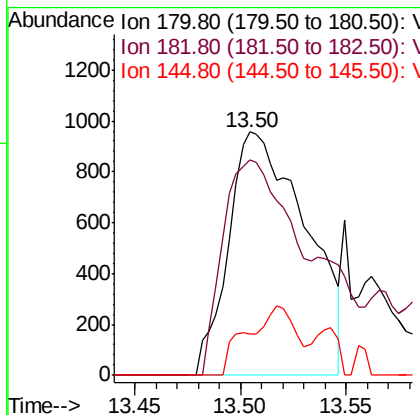
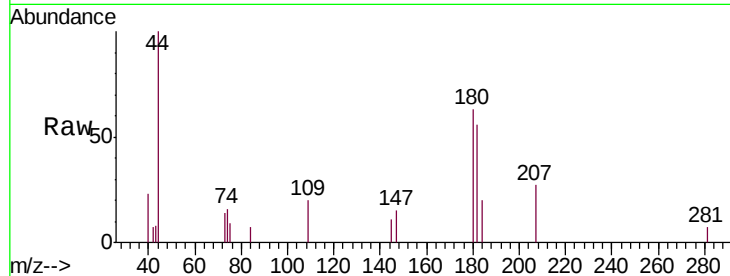




#93  
 1,2,4-Trichlorobenzene  
 Concen: 1.421 ug/l  
 RT: 13.50 min Scan# 3861  
 Delta R.T. 0.02 min  
 Lab File: VU034062.D  
 Acq: 29 Aug 2019 15:17

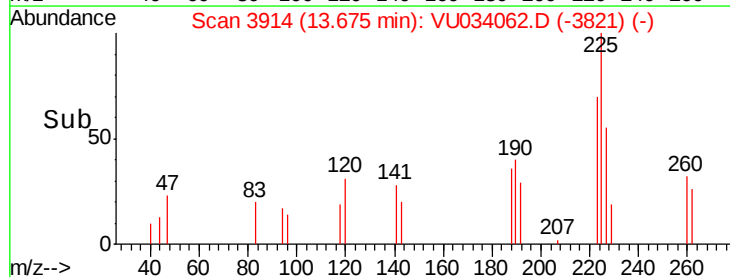
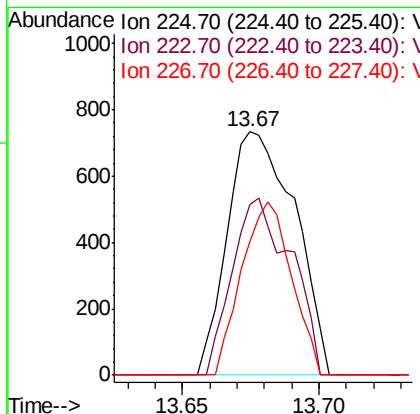
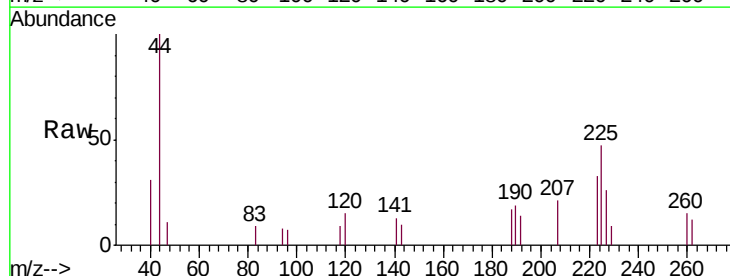
Instrument :  
 MSVOA\_U  
 ClientSampleId :

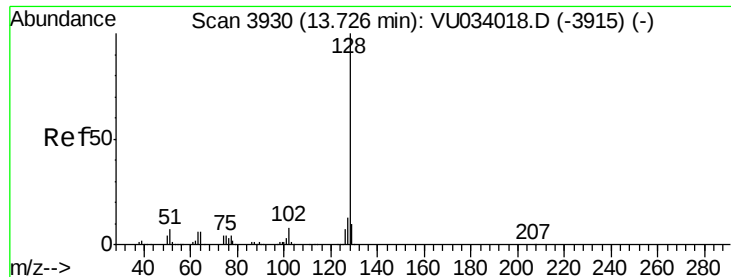
Tot Ion:180 Resp: 2437  
 Ion Ratio Lower Upper  
 180 100  
 182 78.9 47.4 142.2  
 145 17.7 14.1 42.3



#94  
 Hexachlorobutadiene  
 Concen: 0.298 ug/l  
 RT: 13.67 min Scan# 3914  
 Delta R.T. 0.00 min  
 Lab File: VU034062.D  
 Acq: 29 Aug 2019 15:17

Tgt Ion:225 Resp: 1270  
 Ion Ratio Lower Upper  
 225 100  
 223 63.1 31.8 95.3  
 227 52.0 32.6 97.8

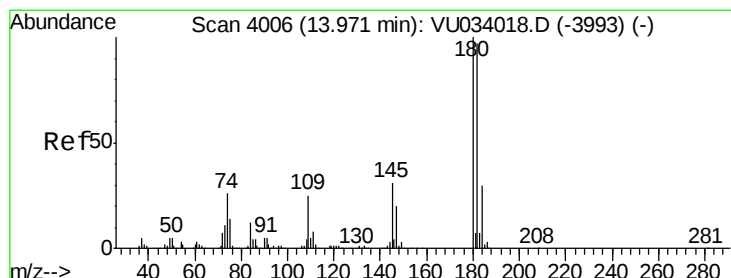
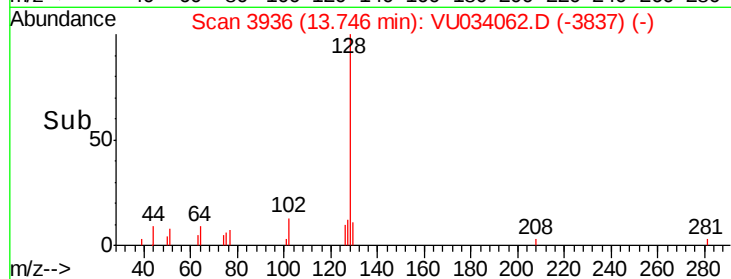
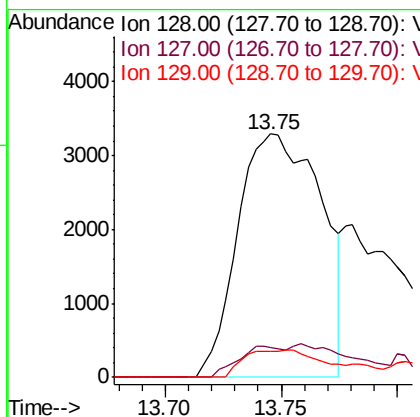
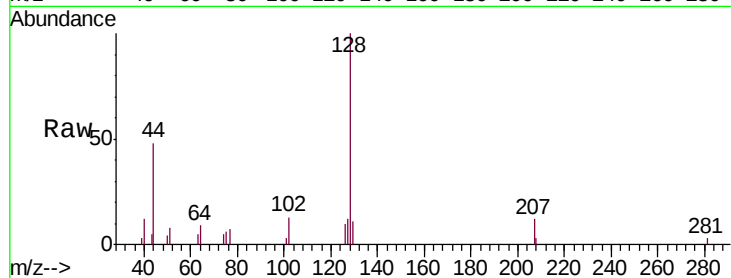




#95  
Naphthalene  
Concen: 2.148 ug/l  
RT: 13.75 min Scan# 3936  
Delta R.T. 0.02 min  
Lab File: VU034062.D  
Acq: 29 Aug 2019 15:17

Instrument :  
MSVOA\_U  
ClientSampleId :

Tot Ion:128 Resp: 8241  
Ion Ratio Lower Upper  
128 100  
127 7.1 10.2 15.4#  
129 10.3 8.4 12.6



#96  
1,2,3-Trichlorobenzene  
Concen: 0.537 ug/l  
RT: 13.99 min Scan# 4011  
Delta R.T. 0.02 min  
Lab File: VU034062.D  
Acq: 29 Aug 2019 15:17

Tgt Ion:180 Resp: 3748  
Ion Ratio Lower Upper  
180 100  
182 102.6 48.2 144.6  
145 20.7 15.5 46.5

