

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_U\DATA\VU062818\  
 Data File : VU025042.D  
 Acq On : 29 Jun 2018 00:46  
 Operator : MD/SY  
 Sample : J3669-20ME  
 Misc : 6.20g/5mL/100uL/5.0mL/MSVOA\_U/MEOH  
 ALS Vial : 38 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 WP021SB475-29-31-180620ME

Quant Time: Jun 29 05:14:56 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\82U061318W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Jun 13 13:55:26 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 4.98  | 168  | 225275   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 5.89  | 114  | 344309   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 9.10  | 117  | 333391   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 11.49 | 152  | 185631   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|-------|--------|----------|
| 33) 1,2-Dichloroethane-d4   | 5.31  | 65   | 171577   | 46.65 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 93.30% |          |
| 35) Dibromofluoromethane    | 4.89  | 113  | 131661   | 46.08 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 92.16% |          |
| 50) Toluene-d8              | 7.57  | 98   | 498570   | 47.83 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 95.66% |          |
| 62) 4-Bromofluorobenzene    | 10.32 | 95   | 204323   | 49.37 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 98.74% |          |

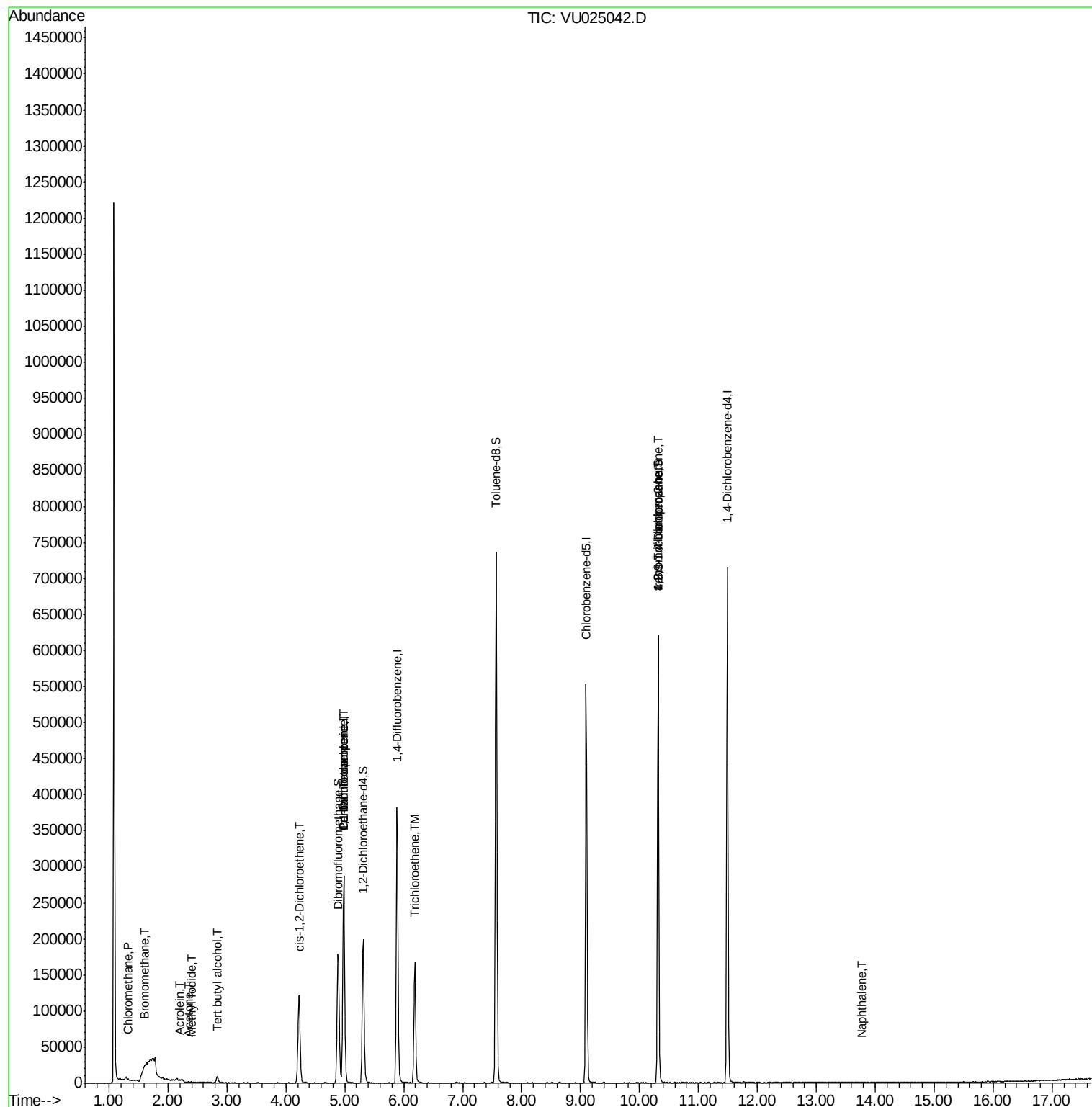
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 3) Chloromethane               | 1.32  | 50   | 1094     | 0.380     | ug/l # | 80     |
| 5) Bromomethane                | 1.60  | 94   | 1083     | 0.754     | ug/l   | 98     |
| 6) Chloroethane                | 1.69  | 64   | 253      | Below Cal | #      | 44     |
| 8) Diethyl Ether               | 1.84  | 74   | 42       | Below Cal | #      | 1      |
| 10) Methyl Iodide              | 2.39  | 142  | 781      | 5.582     | ug/l # | 69     |
| 11) Tert butyl alcohol         | 2.83  | 59   | 5360     | 5.993     | ug/l # | 77     |
| 13) Acrolein                   | 2.20  | 56   | 151      | 0.321     | ug/l   | 93     |
| 16) Acetone                    | 2.35  | 43   | 1107     | 0.560     | ug/l   | 100    |
| 27) cis-1,2-Dichloroethene     | 4.22  | 96   | 72024    | 22.175    | ug/l   | 88     |
| 31) Cyclohexane                | 4.98  | 56   | 4690     | Below Cal | #      | 12     |
| 36) 1,1-Dichloropropene        | 4.98  | 75   | 17214    | 4.255     | ug/l # | 50     |
| 38) Carbon Tetrachloride       | 4.99  | 117  | 21450    | 4.821     | ug/l # | 15     |
| 44) Trichloroethene            | 6.19  | 130  | 61075    | 18.615    | ug/l   | 93     |
| 76) 1,2,3-Trichloropropane     | 10.32 | 75   | 107094   | 26.204    | ug/l # | 35     |
| 81) trans-1,4-Dichloro-2-buten | 10.32 | 75   | 107094   | 60.647    | ug/l # | 100    |
| 95) Naphthalene                | 13.77 | 128  | 594      | 0.722     | ug/l # | 69     |

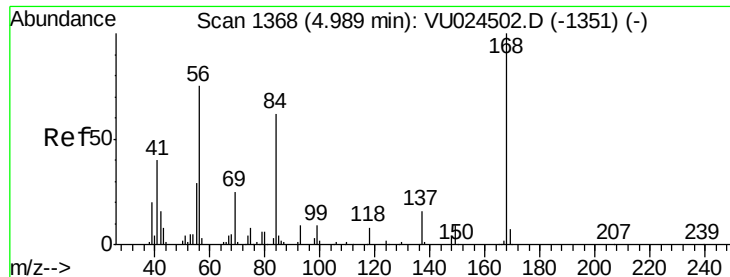
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260  
QLast Update : Wed Jun 13 13:55:26 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.98 min Scan# 1366

Delta R.T. -0.01 min

Lab File: VU025042.D

Acq: 29 Jun 2018 00:46

Instrument :

MSVOA\_U

ClientSampleId :

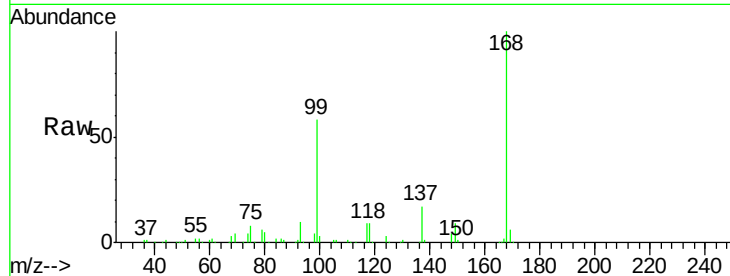
WP021SB475-29-31-180620ME

Tgt Ion:168 Resp: 225275

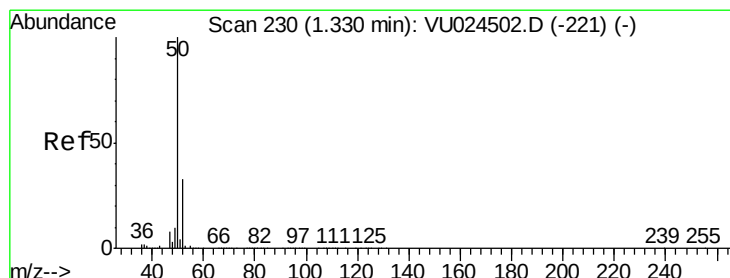
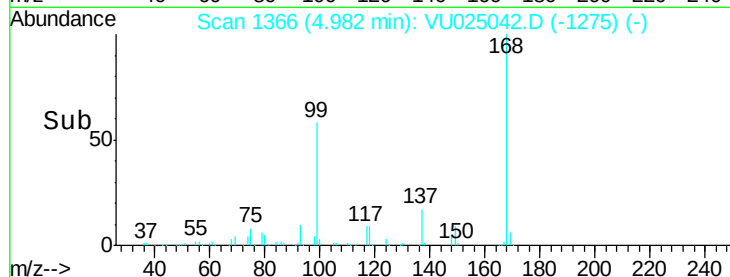
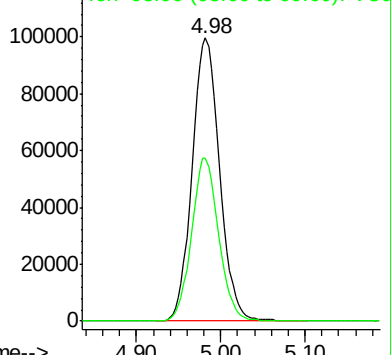
Ion Ratio Lower Upper

168 100

99 57.5 43.2 64.8



Abundance Ion 167.90 (167.60 to 168.60): VU024502.D (-1351) (-)



#3

Chloromethane

Concen: 0.380 ug/l

RT: 1.32 min Scan# 228

Delta R.T. -0.01 min

Lab File: VU025042.D

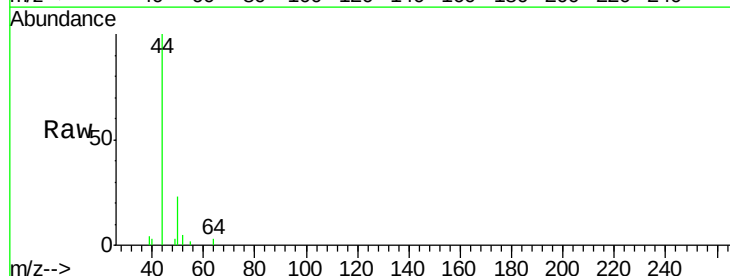
Acq: 29 Jun 2018 00:46

Tgt Ion: 50 Resp: 1094

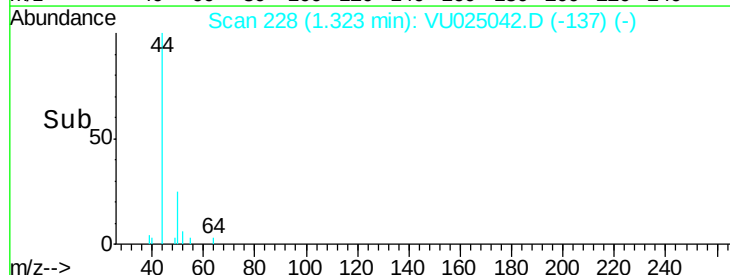
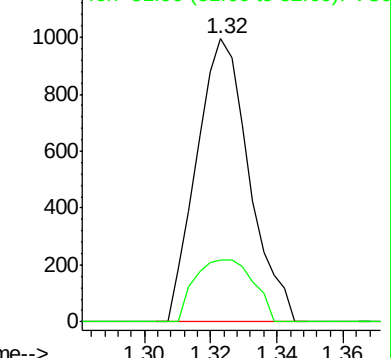
Ion Ratio Lower Upper

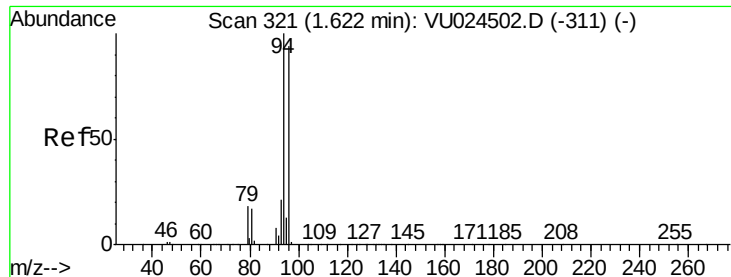
50 100

52 21.8 26.4 39.6#



Abundance Ion 49.90 (49.60 to 50.60): VU024502.D (-221) (-)





#5

Bromomethane

Concen: 0.754 ug/l

RT: 1.60 min Scan# 315

Delta R.T. -0.02 min

Lab File: VU025042.D

Acq: 29 Jun 2018 00:46

Instrument :

MSVOA\_U

ClientSampleId :

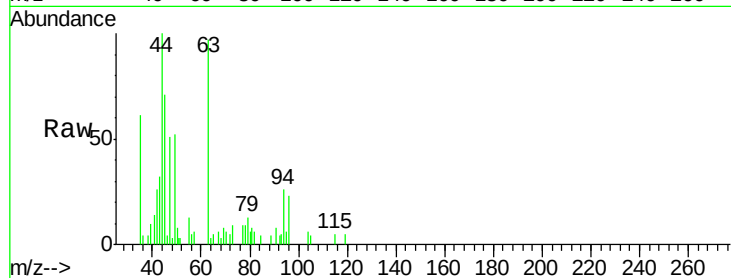
WP021SB475-29-31-180620ME

Tgt Ion: 94 Resp: 1083

Ion Ratio Lower Upper

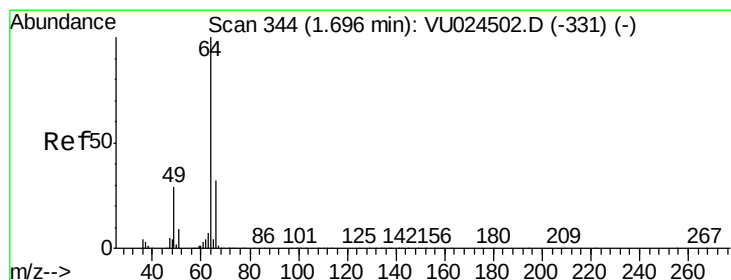
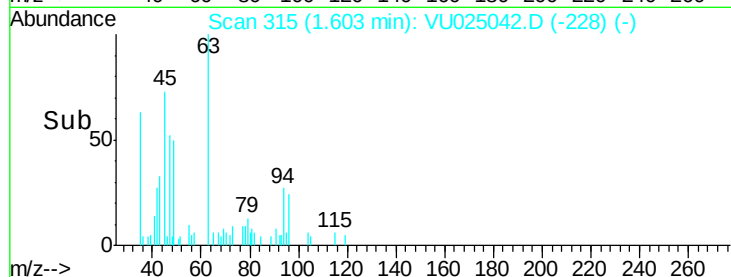
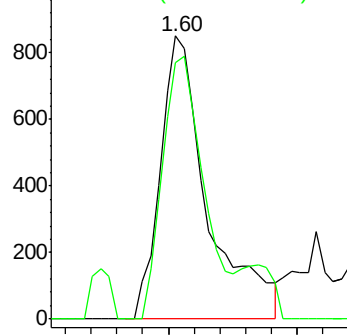
94 100

96 90.7 74.5 111.7



Abundance Ion 93.90 (93.60 to 94.60): VU0

Ion 95.90 (95.60 to 96.60): VU0



#6

Chloroethane

Concen: Below Cal

RT: 1.69 min Scan# 341

Delta R.T. -0.01 min

Lab File: VU025042.D

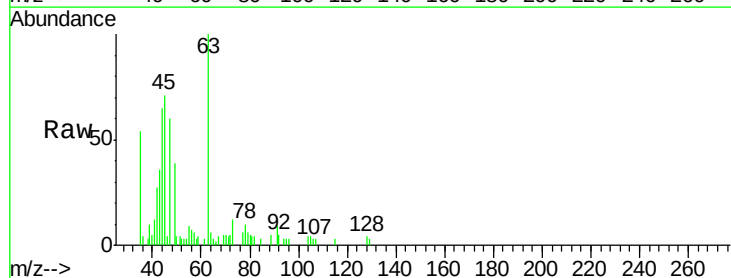
Acq: 29 Jun 2018 00:46

Tgt Ion: 64 Resp: 253

Ion Ratio Lower Upper

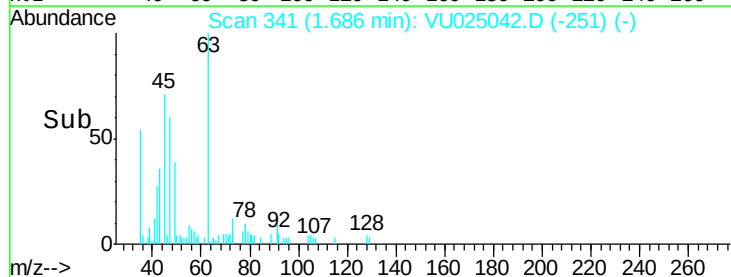
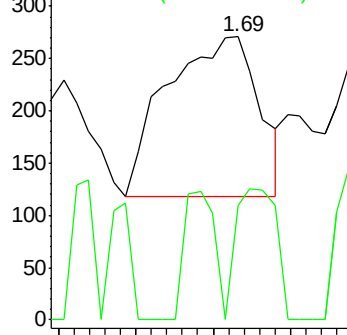
64 100

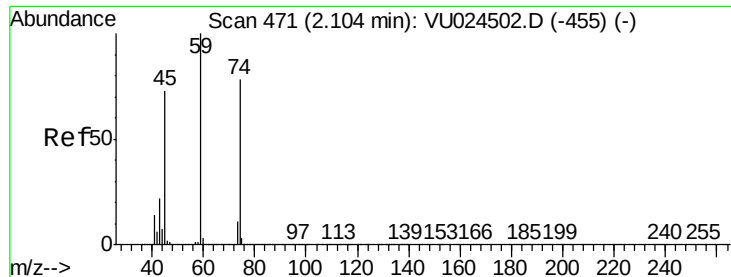
66 0.7 25.5 38.3#



Abundance Ion 63.90 (63.60 to 64.60): VU0

Ion 65.90 (65.60 to 66.60): VU0





#8

Diethyl Ether

Concen: Below Cal

RT: 1.84 min Scan# 390

Delta R.T. -0.26 min

Lab File: VU025042.D

Acq: 29 Jun 2018 00:46

Instrument :

MSVOA\_U

ClientSampleId :

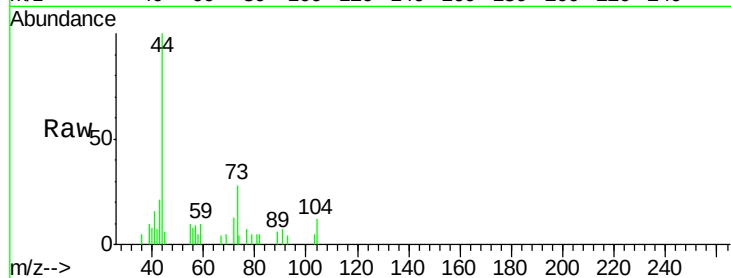
WP021SB475-29-31-180620ME

Tgt Ion: 74 Resp: 42

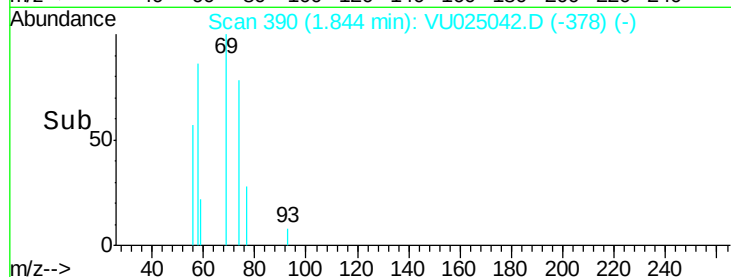
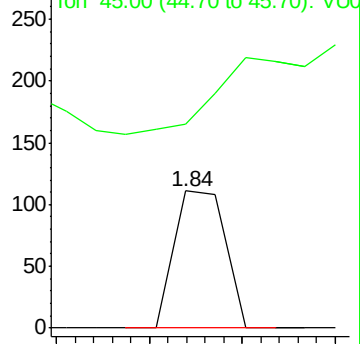
Ion Ratio Lower Upper

74 100

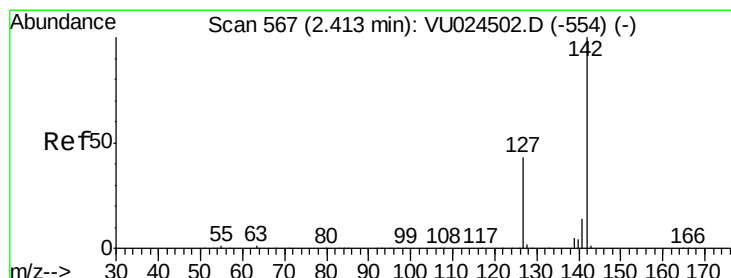
45 0.0 55.0 165.0#



Abundance Ion 74.00 (73.70 to 74.70): VU025042.D (-378) (-)



Time-->



#10

Methyl Iodide

Concen: 5.582 ug/l

RT: 2.39 min Scan# 561

Delta R.T. -0.02 min

Lab File: VU025042.D

Acq: 29 Jun 2018 00:46

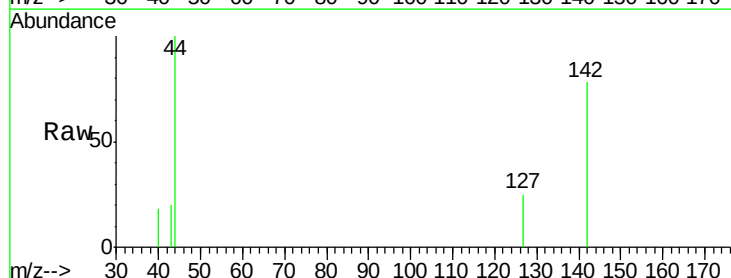
Tgt Ion: 142 Resp: 781

Ion Ratio Lower Upper

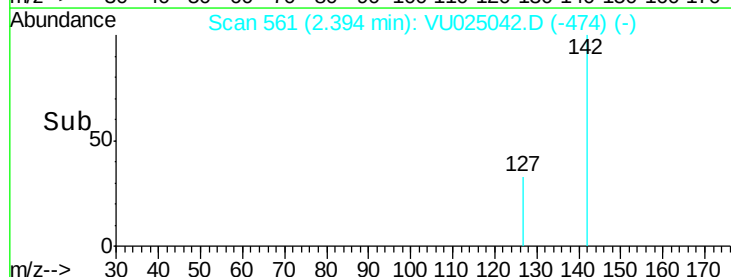
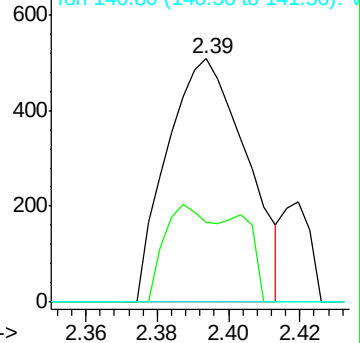
142 100

127 25.0 35.6 53.4#

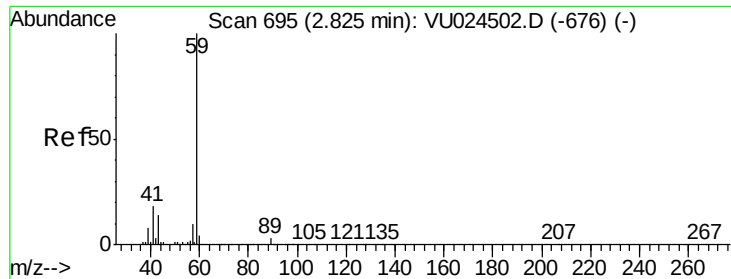
141 0.0 11.7 17.5#



Abundance Ion 141.80 (141.50 to 142.50): VU025042.D (-474) (-)



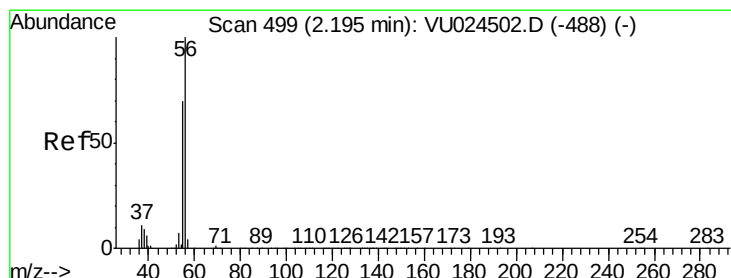
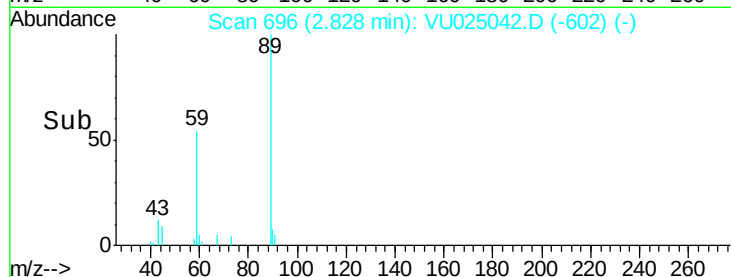
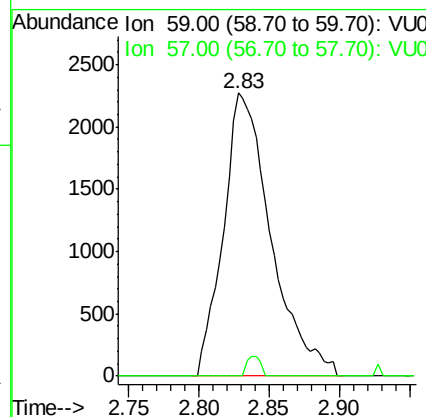
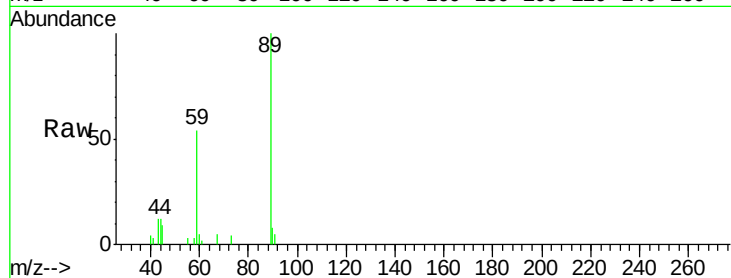
Time-->



#11  
Tert butyl alcohol  
Concen: 5.993 ug/l  
RT: 2.83 min Scan# 696  
Delta R.T. 0.00 min  
Lab File: VU025042.D  
Acq: 29 Jun 2018 00:46

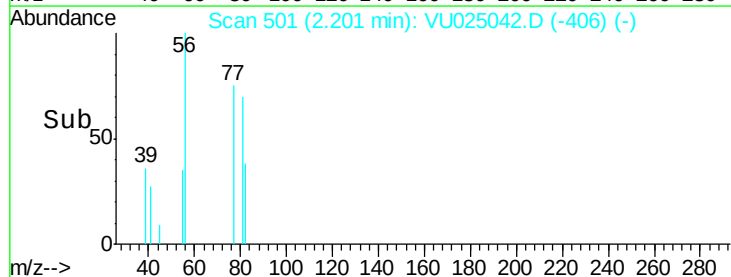
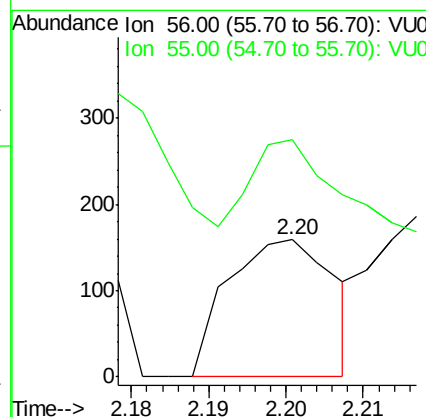
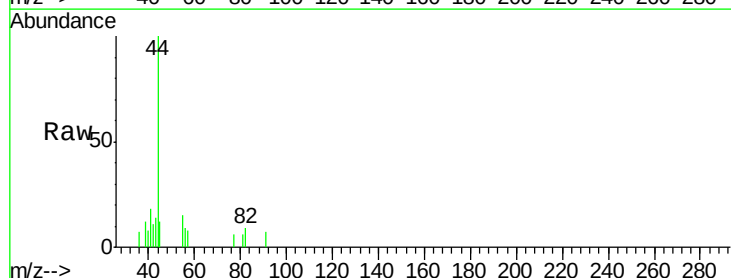
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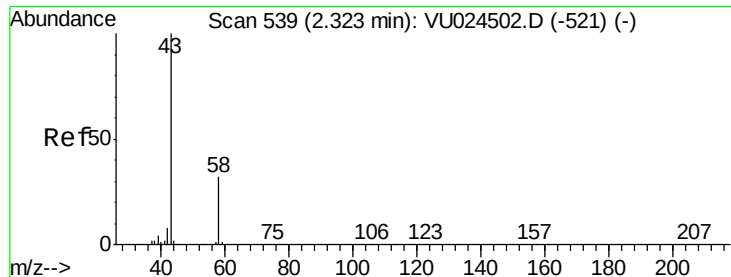
Tgt Ion: 59 Resp: 5360  
Ion Ratio Lower Upper  
59 100  
57 2.0 8.5 12.7#



#13  
Acrolein  
Concen: 0.321 ug/l  
RT: 2.20 min Scan# 501  
Delta R.T. 0.01 min  
Lab File: VU025042.D  
Acq: 29 Jun 2018 00:46

Tgt Ion: 56 Resp: 151  
Ion Ratio Lower Upper  
56 100  
55 66.9 58.4 87.6





#16

Acetone

Concen: 0.560 ug/l

RT: 2.35 min Scan# 547

Delta R.T. 0.03 min

Lab File: VU025042.D

Acq: 29 Jun 2018 00:46

Instrument :

MSVOA\_U

ClientSampleId :

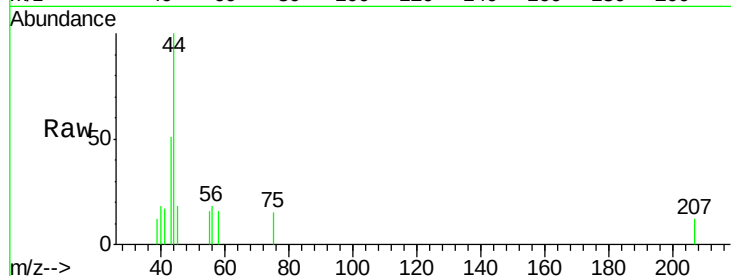
WP021SB475-29-31-180620ME

Tgt Ion: 43 Resp: 1107

Ion Ratio Lower Upper

43 100

58 30.3 24.4 36.6



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0

2.35

400

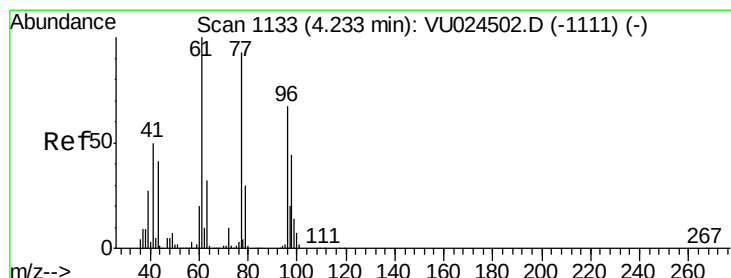
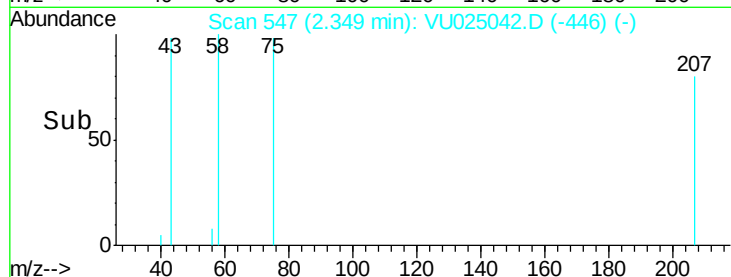
300

200

100

0

Time-->



#27

cis-1,2-Dichloroethene

Concen: 22.175 ug/l

RT: 4.22 min Scan# 1129

Delta R.T. -0.01 min

Lab File: VU025042.D

Acq: 29 Jun 2018 00:46

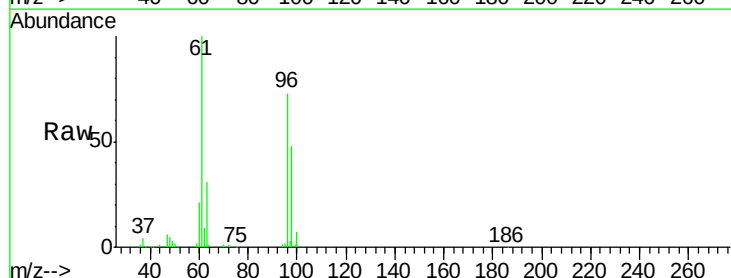
Tgt Ion: 96 Resp: 72024

Ion Ratio Lower Upper

96 100

61 132.1 0.0 306.6

98 62.2 0.0 128.8



Abundance Ion 95.90 (95.60 to 96.60): VU0

Ion 60.90 (60.60 to 61.60): VU0

Ion 97.90 (97.60 to 98.60): VU0

50000

40000

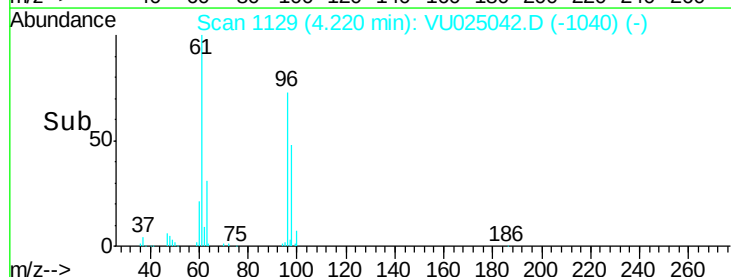
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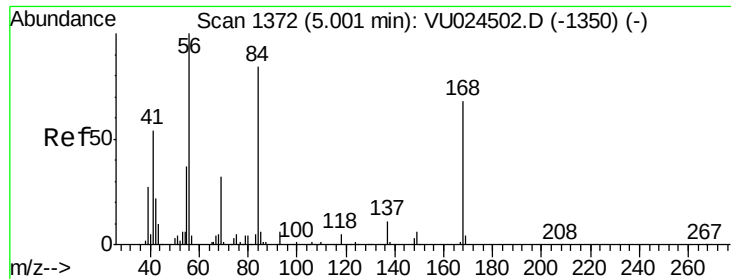
20000

10000

0

Time-->

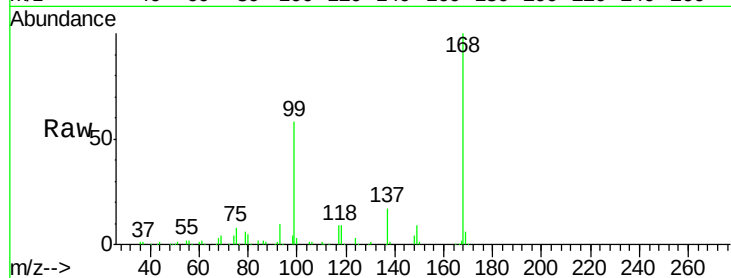




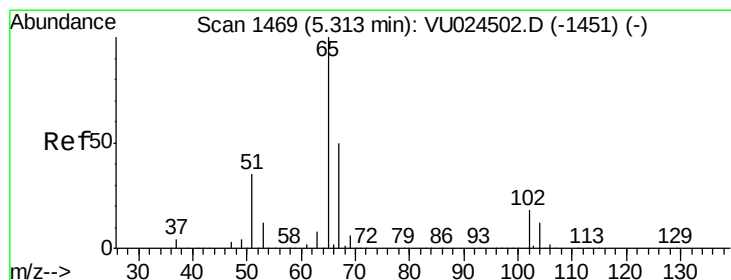
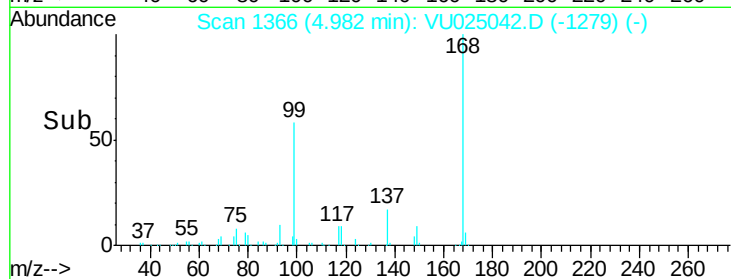
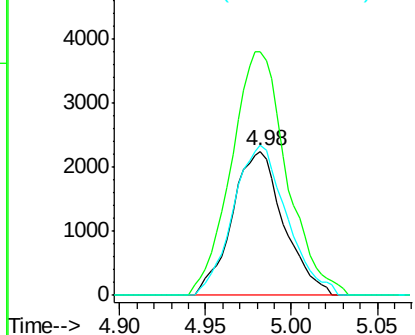
#31  
Cyclohexane  
Concen: Below Cal  
RT: 4.98 min Scan# 1366  
Delta R.T. -0.02 min  
Lab File: VU025042.D  
Acq: 29 Jun 2018 00:46

Instrument :  
MSVOA\_U  
ClientSampleId :  
WP021SB475-29-31-180620ME

Tgt Ion: 56 Resp: 4690  
Ion Ratio Lower Upper  
56 100  
69 168.8 24.8 37.2#  
84 104.4 65.2 97.8#

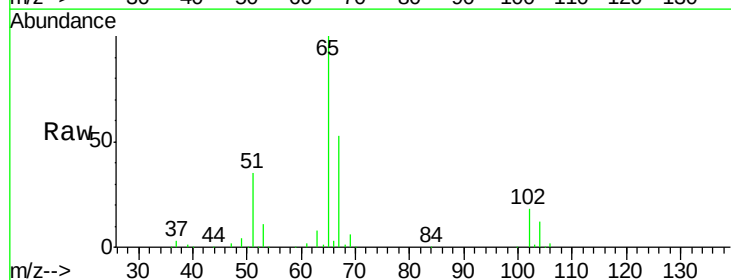


Abundance Ion 56.00 (55.70 to 56.70): VU0  
Ion 69.00 (68.70 to 69.70): VU0  
Ion 84.00 (83.70 to 84.70): VU0

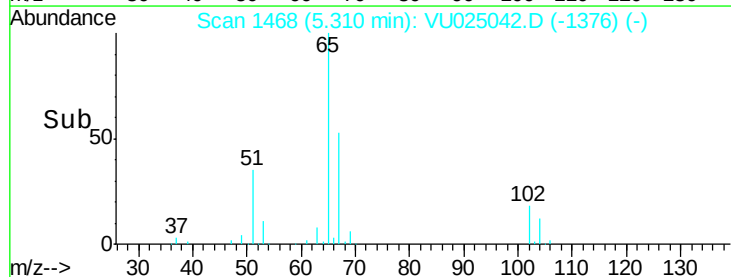
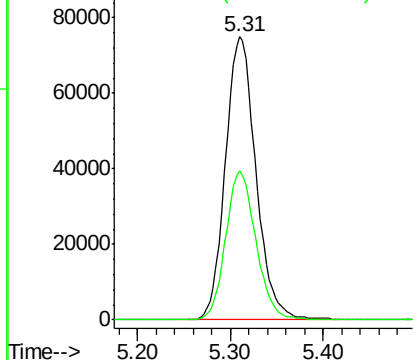


#33  
1,2-Dichloroethane-d4  
Concen: 46.654 ug/l  
RT: 5.31 min Scan# 1468  
Delta R.T. -0.00 min  
Lab File: VU025042.D  
Acq: 29 Jun 2018 00:46

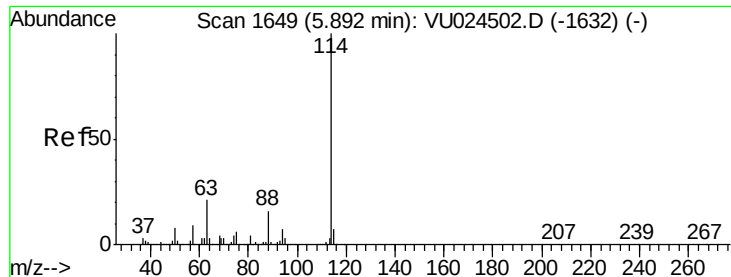
Tgt Ion: 65 Resp: 171577  
Ion Ratio Lower Upper  
65 100  
67 52.3 0.0 107.0



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



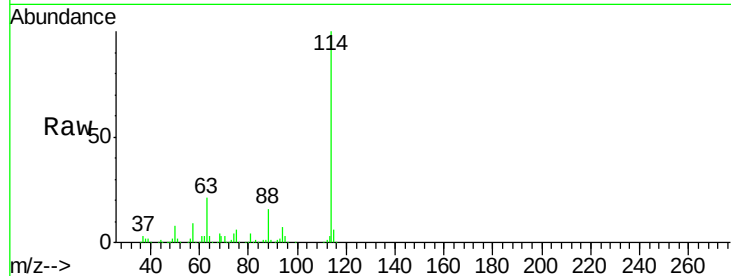




#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 5.89 min Scan# 1647  
 Delta R.T. -0.01 min  
 Lab File: VU025042.D  
 Acq: 29 Jun 2018 00:46

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 WP021SB475-29-31-180620ME

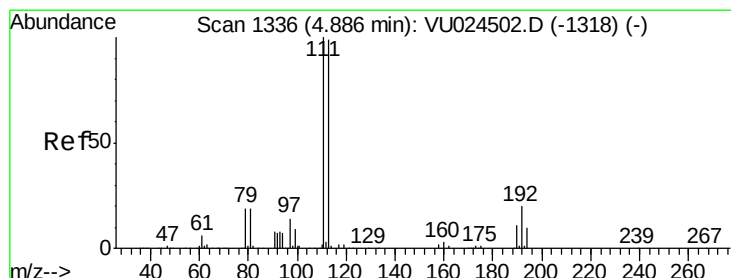
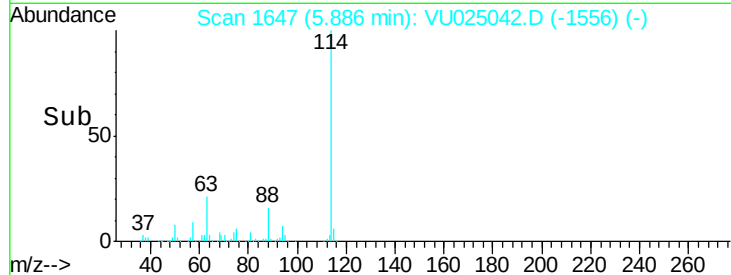
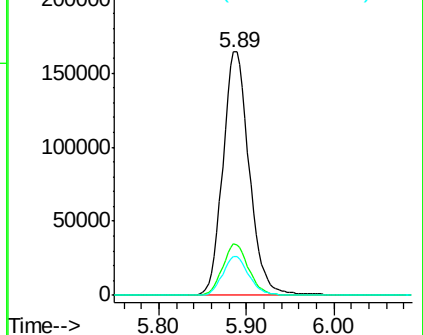
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 114     | 100   |       |       |
| 63      | 21.0  | 0.0   | 45.4  |
| 88      | 15.9  | 0.0   | 31.0  |



Abundance Ion 113.90 (113.60 to 114.60): V

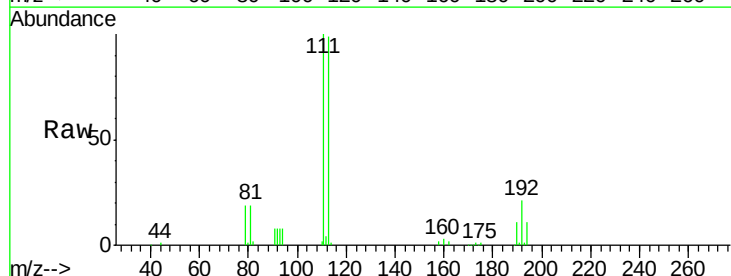
Ion 63.00 (62.70 to 63.70): VU0

Ion 87.90 (87.60 to 88.60): VU0



#35  
 Dibromofluoromethane  
 Concen: 46.076 ug/l  
 RT: 4.89 min Scan# 1336  
 Delta R.T. -0.00 min  
 Lab File: VU025042.D  
 Acq: 29 Jun 2018 00:46

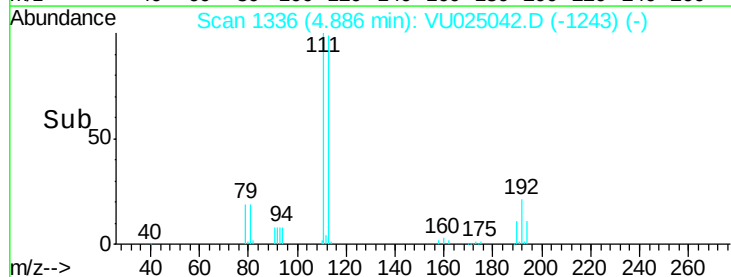
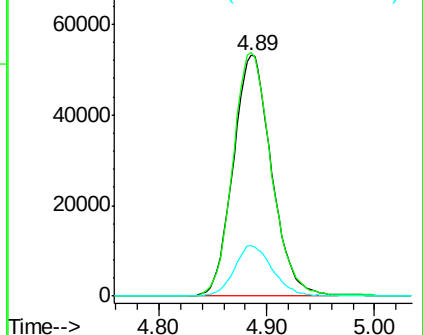
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 101.1 | 82.2  | 123.4 |
| 192     | 20.9  | 16.2  | 24.4  |

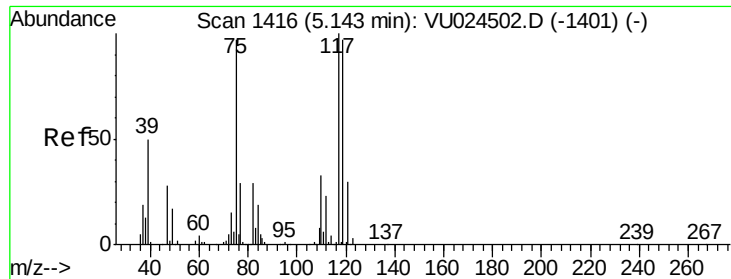


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

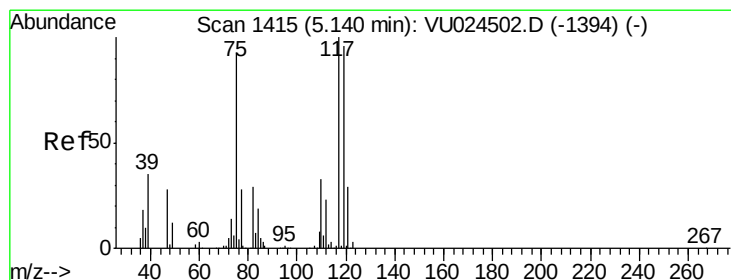
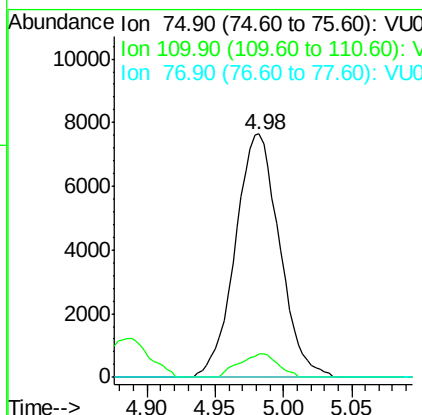
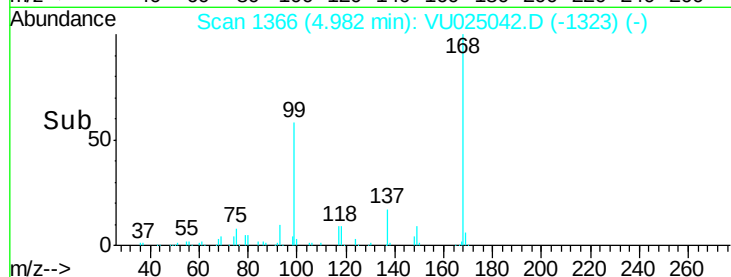
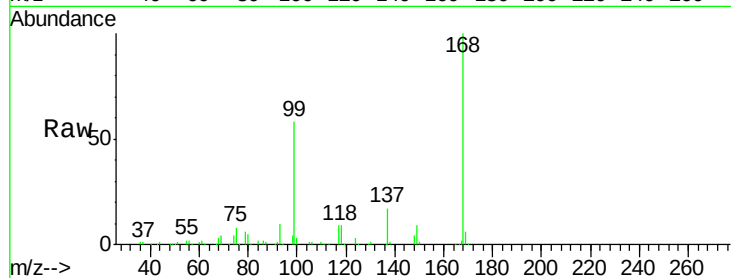




#36  
 1,1-Dichloropropene  
 Concen: 4.255 ug/l  
 RT: 4.98 min Scan# 1366  
 Delta R.T. -0.16 min  
 Lab File: VU025042.D  
 Acq: 29 Jun 2018 00:46

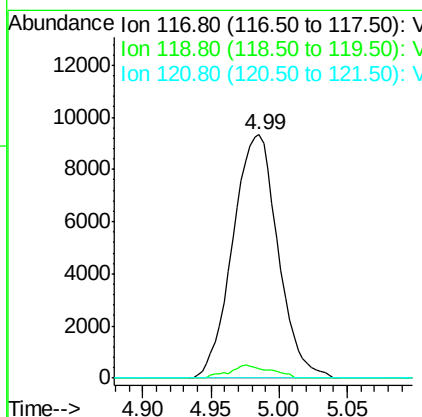
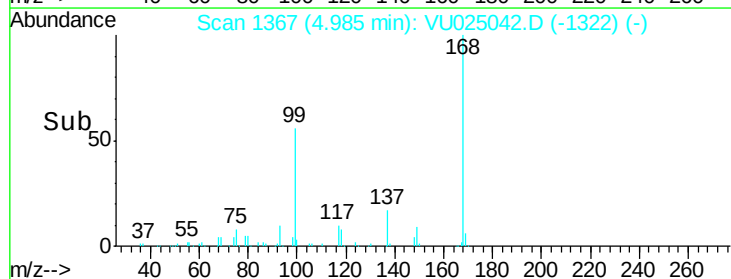
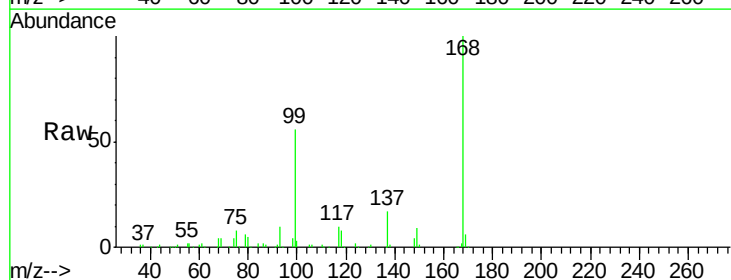
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 WP021SB475-29-31-180620ME

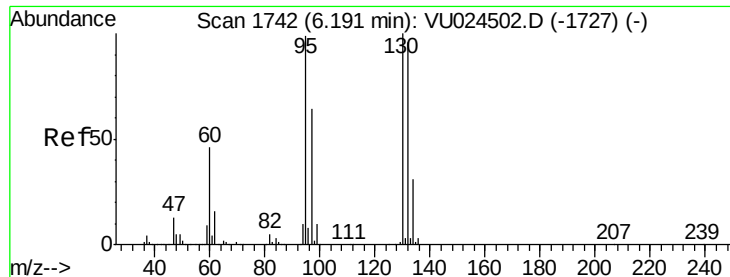
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 8.5   | 17.0  | 50.9# |
| 77      | 0.0   | 24.2  | 36.4# |



#38  
 Carbon Tetrachloride  
 Concen: 4.821 ug/l  
 RT: 4.99 min Scan# 1367  
 Delta R.T. -0.15 min  
 Lab File: VU025042.D  
 Acq: 29 Jun 2018 00:46

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 117     | 100   |       |        |
| 119     | 3.7   | 76.1  | 114.1# |
| 121     | 0.0   | 23.7  | 35.5#  |

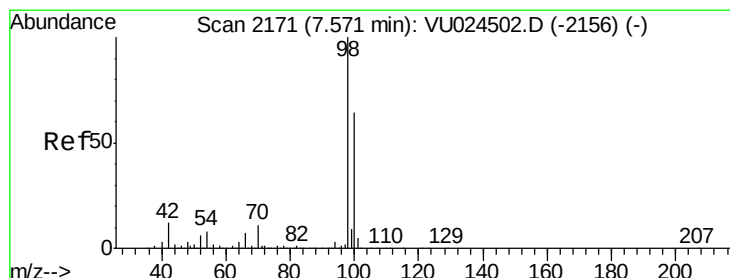
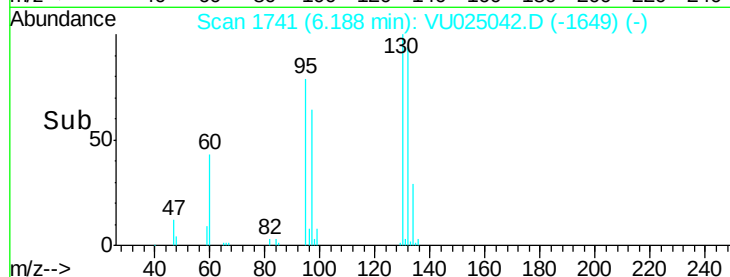
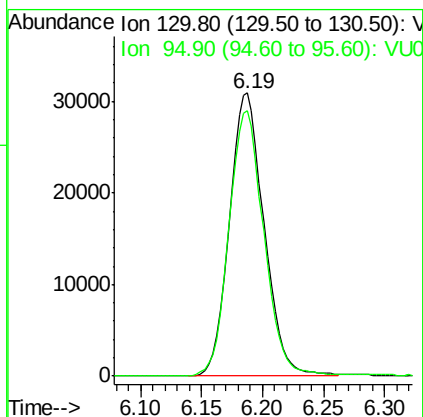
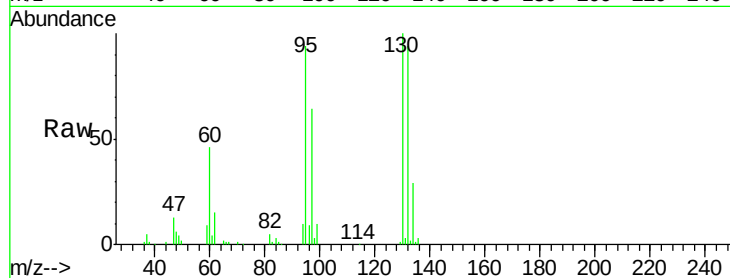




#44  
 Trichloroethene  
 Concen: 18.615 ug/l  
 RT: 6.19 min Scan# 1741  
 Delta R.T. -0.00 min  
 Lab File: VU025042.D  
 Acq: 29 Jun 2018 00:46

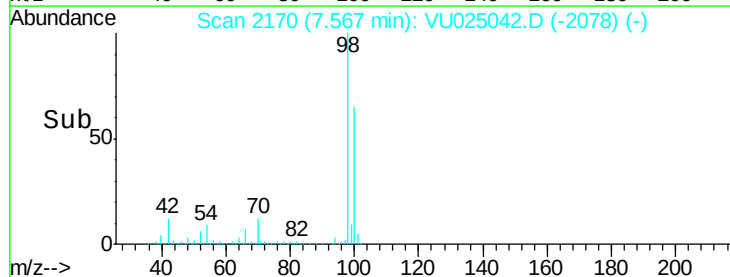
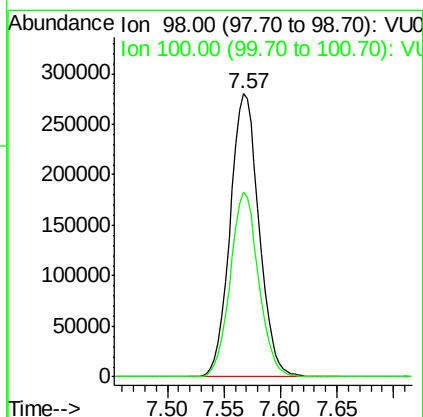
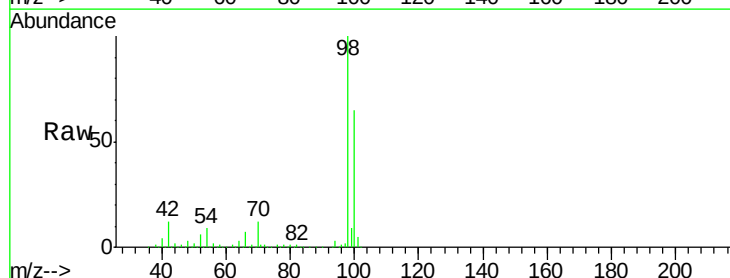
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 WP021SB475-29-31-180620ME

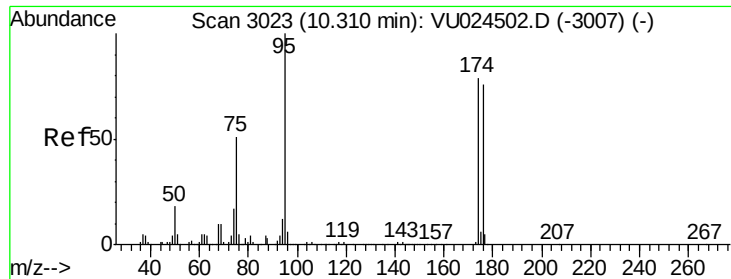
Tgt Ion:130 Resp: 61075  
 Ion Ratio Lower Upper  
 130 100  
 95 93.9 0.0 202.4



#50  
 Toluene-d8  
 Concen: 47.834 ug/l  
 RT: 7.57 min Scan# 2170  
 Delta R.T. -0.00 min  
 Lab File: VU025042.D  
 Acq: 29 Jun 2018 00:46

Tgt Ion: 98 Resp: 498570  
 Ion Ratio Lower Upper  
 98 100  
 100 64.2 51.1 76.7

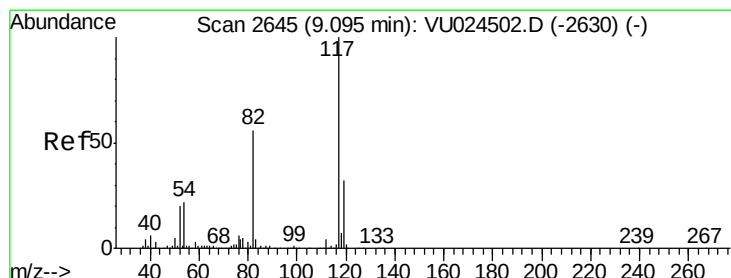
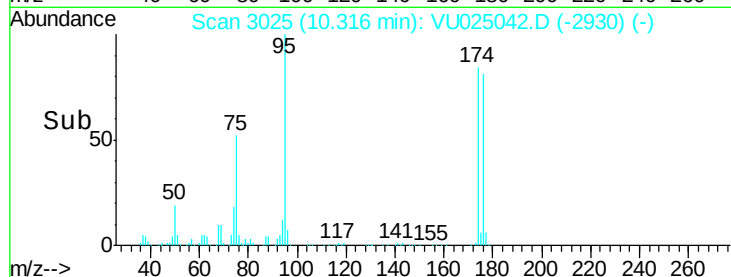
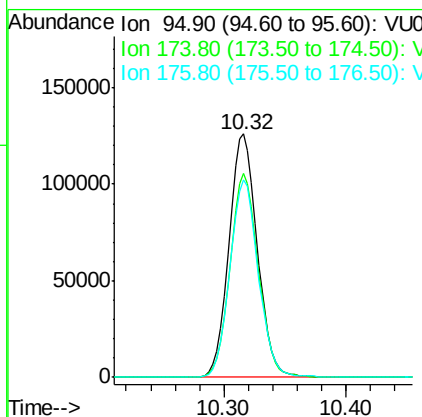
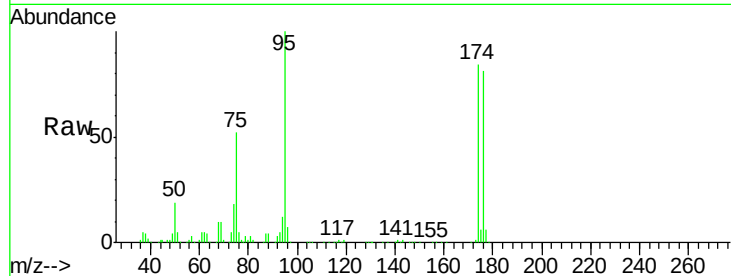




#62  
4-Bromofluorobenzene  
Concen: 49.373 ug/l  
RT: 10.32 min Scan# 3025  
Delta R.T. 0.01 min  
Lab File: VU025042.D  
Acq: 29 Jun 2018 00:46

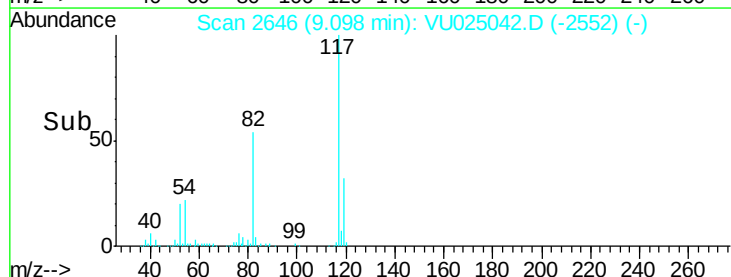
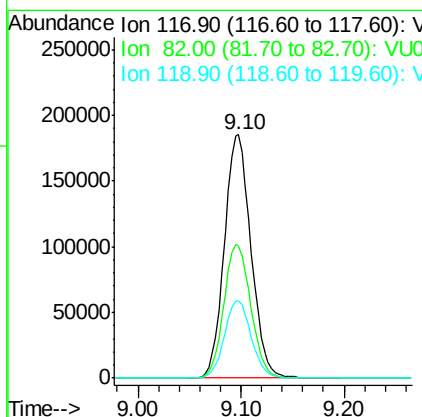
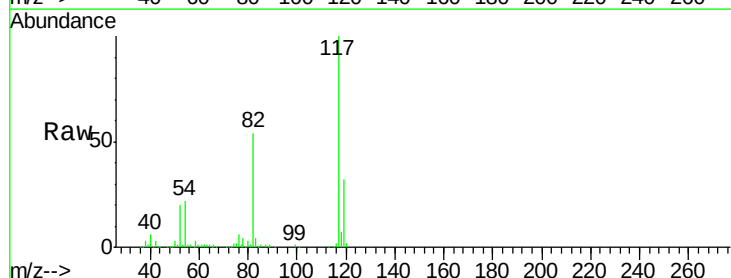
Instrument :  
MSVOA\_U  
ClientSampleId :  
WP021SB475-29-31-180620ME

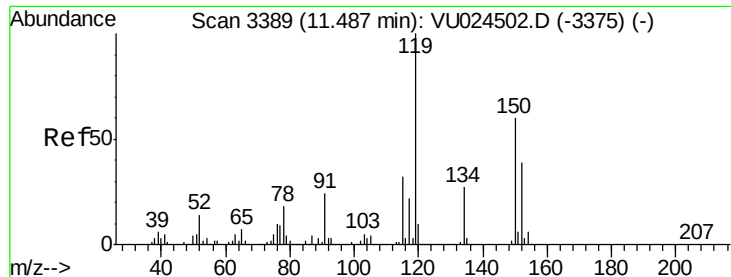
Tgt Ion: 95 Resp: 204323  
Ion Ratio Lower Upper  
95 100  
174 83.6 0.0 165.8  
176 81.4 0.0 159.4



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 9.10 min Scan# 2646  
Delta R.T. 0.00 min  
Lab File: VU025042.D  
Acq: 29 Jun 2018 00:46

Tgt Ion: 117 Resp: 333391  
Ion Ratio Lower Upper  
117 100  
82 54.1 44.3 66.5  
119 31.8 25.4 38.2





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 11.49 min Scan# 3390

Delta R.T. 0.00 min

Lab File: VU025042.D

Acq: 29 Jun 2018 00:46

Instrument :

MSVOA\_U

ClientSampleId :

WP021SB475-29-31-180620ME

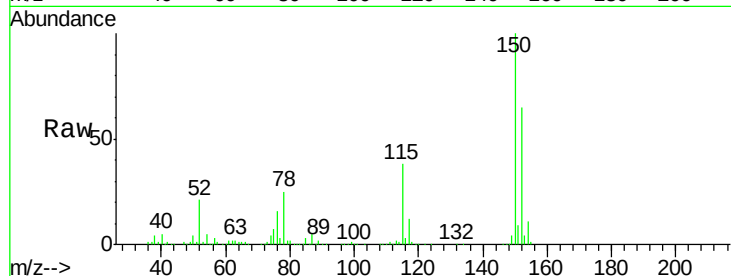
Tgt Ion:152 Resp: 185631

Ion Ratio Lower Upper

152 100

115 58.2 43.0 129.0

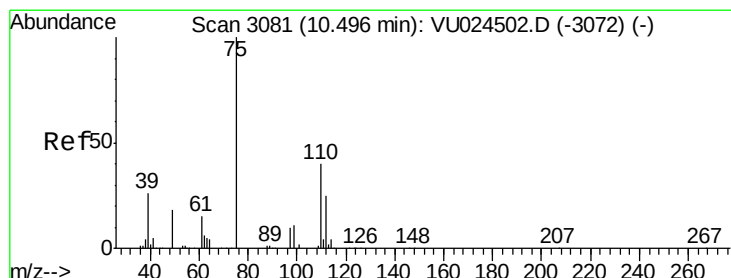
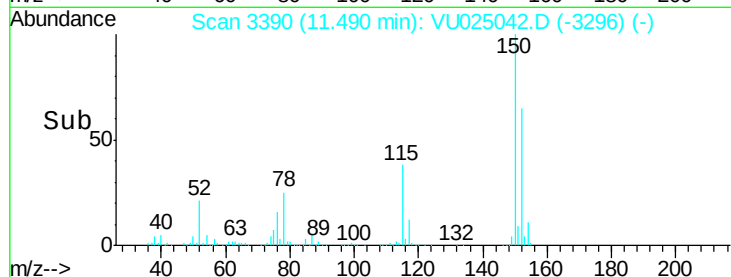
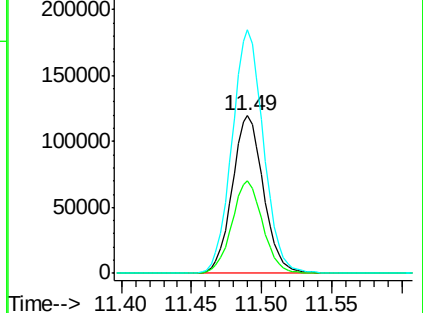
150 155.9 0.0 354.0



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: 26.204 ug/l

RT: 10.32 min Scan# 3025

Delta R.T. -0.18 min

Lab File: VU025042.D

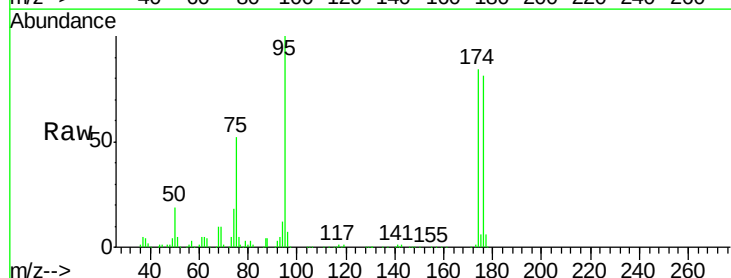
Acq: 29 Jun 2018 00:46

Tgt Ion: 75 Resp: 107094

Ion Ratio Lower Upper

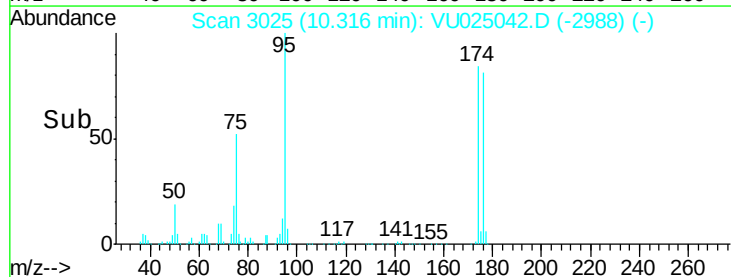
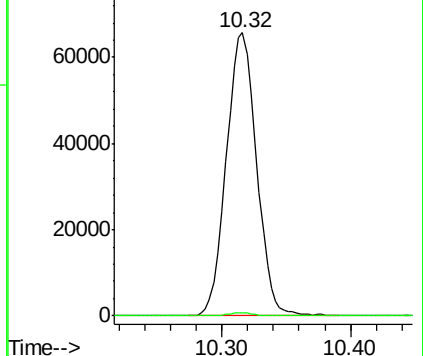
75 100

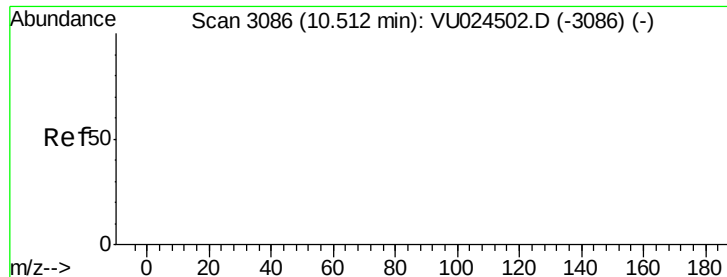
77 0.9 20.9 62.7#



Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 77.00 (76.70 to 77.70): VU0

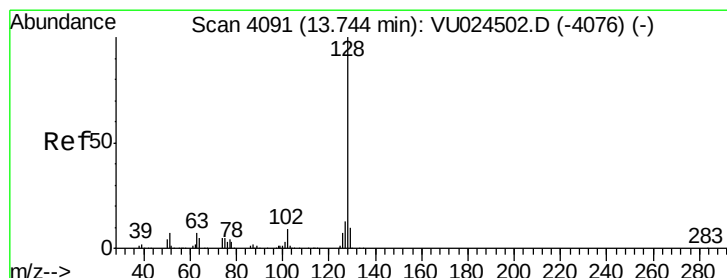
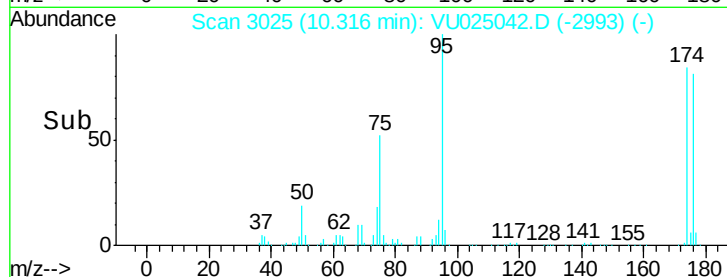
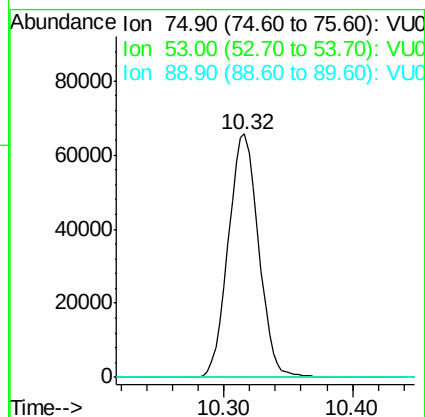
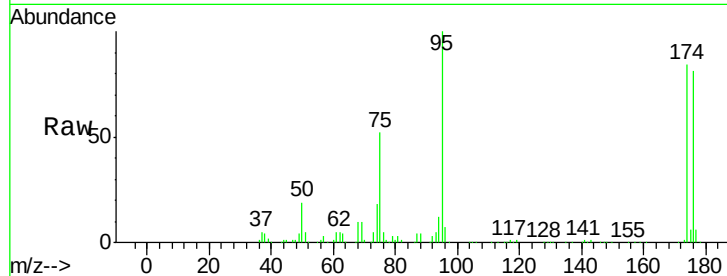




#81  
trans-1,4-Dichloro-2-butene  
Concen: 60.647 ug/l  
RT: 10.32 min Scan# 3025  
Delta R.T. -0.20 min  
Lab File: VU025042.D  
Acq: 29 Jun 2018 00:46

Instrument :  
MSVOA\_U  
ClientSampleId :  
WP021SB475-29-31-180620ME

Tgt Ion: 75 Resp: 107094  
Ion Ratio Lower Upper  
75 100  
53 0.0 0.0 0.0  
89 0.0 0.0 0.0



#95  
Naphthalene  
Concen: 0.722 ug/l  
RT: 13.77 min Scan# 4098  
Delta R.T. 0.02 min  
Lab File: VU025042.D  
Acq: 29 Jun 2018 00:46

Tgt Ion: 128 Resp: 594  
Ion Ratio Lower Upper  
128 100  
127 0.0 10.6 16.0#  
129 0.0 8.6 12.8#

