

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_U\DATA\VU062018\  
 Data File : VU024787.D  
 Acq On : 21 Jun 2018 04:03  
 Operator : MD/SY  
 Sample : J3585-06  
 Misc : 5.0mL/MSVOA\_U/WATER  
 ALS Vial : 42 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 CKMW18

Quant Time: Jun 21 07:58:35 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      | 4.99  | 168  | 193798   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 5.89  | 114  | 300446   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 9.09  | 117  | 283114   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 11.49 | 152  | 153109   | 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   | 137504   | 43.46 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 86.92% |          |
| 35) Dibromofluoromethane    | 4.89  | 113  | 116295   | 46.64 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 93.28% |          |
| 50) Toluene-d8              | 7.57  | 98   | 439711   | 48.35 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 96.70% |          |
| 62) 4-Bromofluorobenzene    | 10.31 | 95   | 159215   | 44.09 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 88.18% |          |

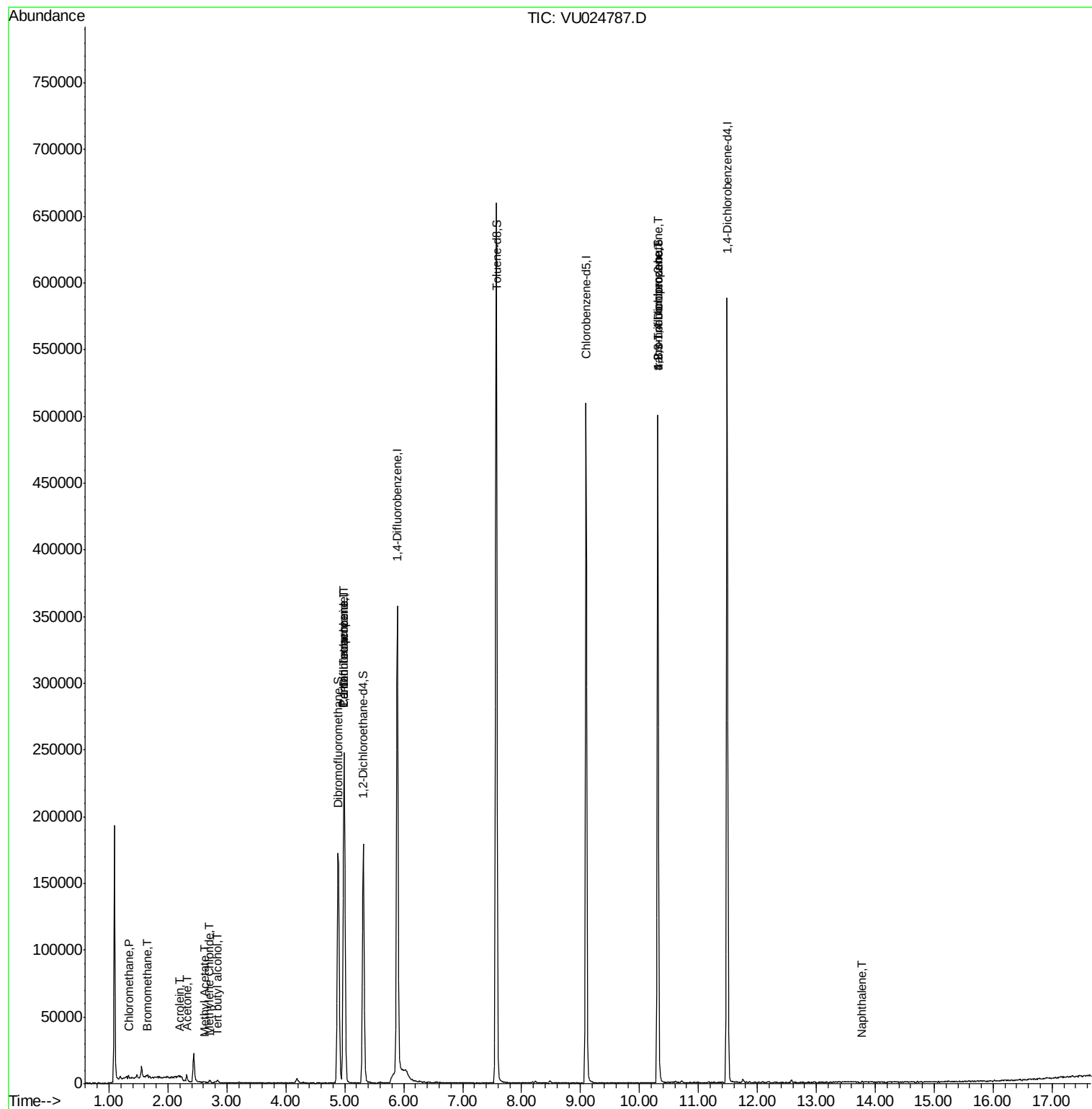
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 3) Chloromethane               | 1.33  | 50   | 1310     | 0.529     | ug/l   | 94     |
| 5) Bromomethane                | 1.64  | 94   | 340      | 0.275     | ug/l   | 99     |
| 6) Chloroethane                | 1.70  | 64   | 80       | Below Cal | #      | 43     |
| 11) Tert butyl alcohol         | 2.83  | 59   | 909      | 1.181     | ug/l # | 72     |
| 13) Acrolein                   | 2.19  | 56   | 160      | 0.396     | ug/l # | 53     |
| 16) Acetone                    | 2.32  | 43   | 4456     | 2.621     | ug/l   | 94     |
| 18) Methyl Acetate             | 2.62  | 43   | 849      | 0.233     | ug/l # | 58     |
| 20) Methylene Chloride         | 2.71  | 84   | 826      | 0.310     | ug/l # | 78     |
| 31) Cyclohexane                | 4.99  | 56   | 3840     | Below Cal | #      | 1      |
| 36) 1,1-Dichloropropene        | 4.99  | 75   | 14001    | 3.966     | ug/l # | 50     |
| 38) Carbon Tetrachloride       | 4.99  | 117  | 17401    | 4.482     | ug/l # | 15     |
| 76) 1,2,3-Trichloropropane     | 10.31 | 75   | 81792    | 24.264    | ug/l # | 35     |
| 81) trans-1,4-Dichloro-2-buten | 10.31 | 75   | 81792    | 56.157    | ug/l # | 100    |
| 95) Naphthalene                | 13.76 | 128  | 191      | 0.696     | ug/l # | 69     |

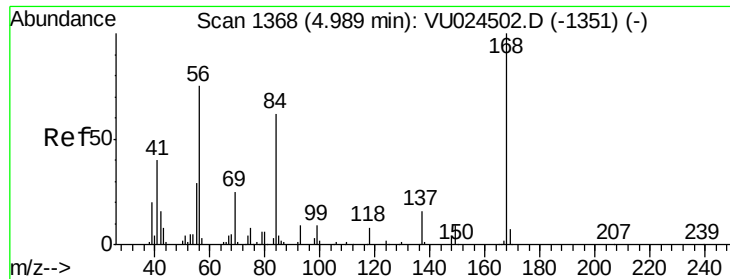
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_U\DATA\VU062018\  
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Sample : J3585-06  
Misc : 5.0mL/MSVOA\_U/WATER  
ALS Vial : 42 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
CKMW18

Quant Time: Jun 21 07:58:35 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\82U061318W.M  
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: 4.99 min Scan# 1368

Delta R.T. -0.00 min

Lab File: VU024787.D

Acq: 21 Jun 2018 04:03

Instrument :

MSVOA\_U

ClientSampleId :

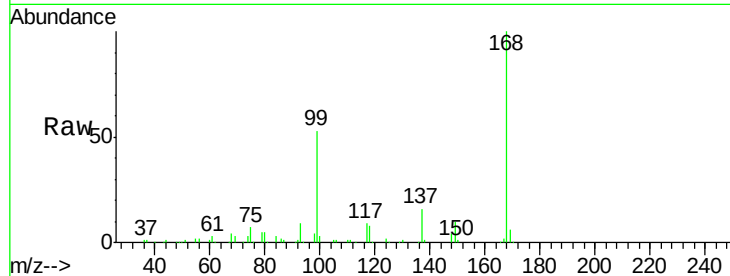
CKMW18

Tgt Ion:168 Resp: 193798

Ion Ratio Lower Upper

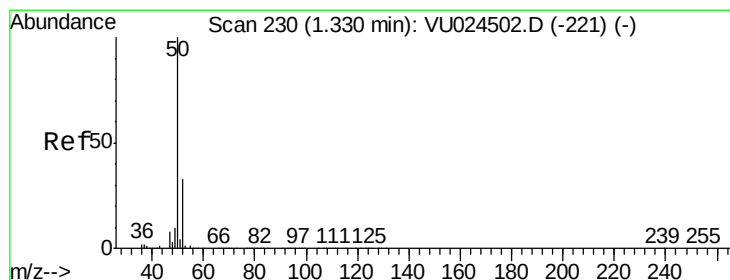
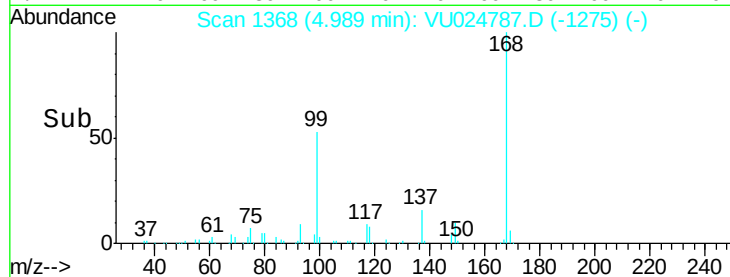
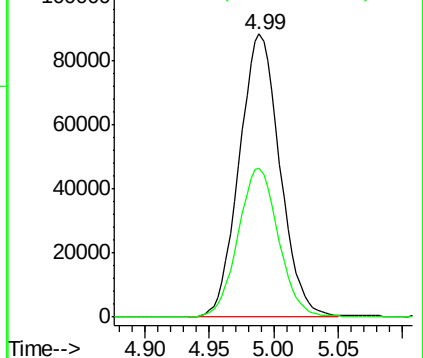
168 100

99 52.6 43.2 64.8



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

Ion 98.90 (98.60 to 99.60): VU024502.D



#3

Chloromethane

Concen: 0.529 ug/l

RT: 1.33 min Scan# 230

Delta R.T. -0.00 min

Lab File: VU024787.D

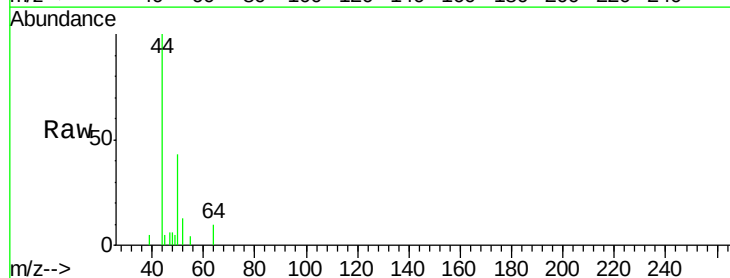
Acq: 21 Jun 2018 04:03

Tgt Ion: 50 Resp: 1310

Ion Ratio Lower Upper

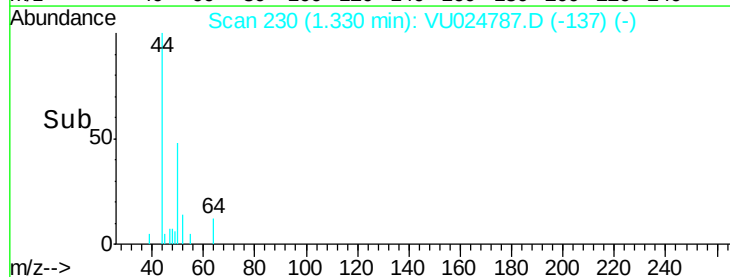
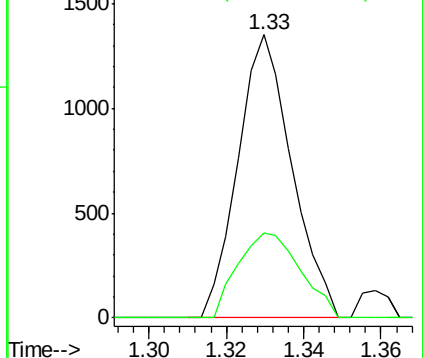
50 100

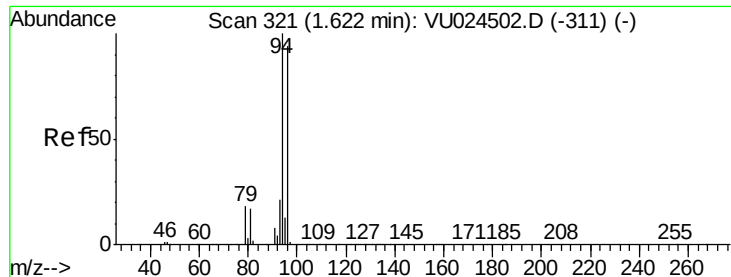
52 29.8 26.4 39.6



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

Ion 51.90 (51.60 to 52.60): VU024502.D





#5

Bromomethane

Concen: 0.275 ug/l

RT: 1.64 min Scan# 325

Delta R.T. 0.01 min

Lab File: VU024787.D

Acq: 21 Jun 2018 04:03

Instrument :

MSVOA\_U

ClientSampleId :

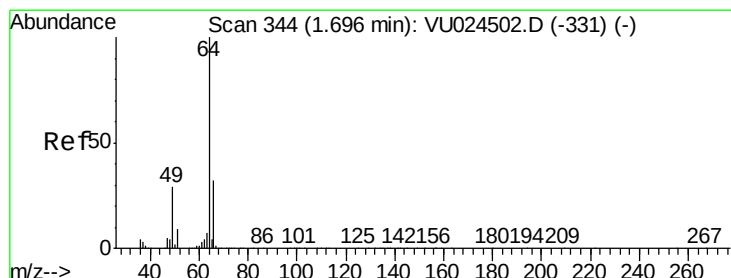
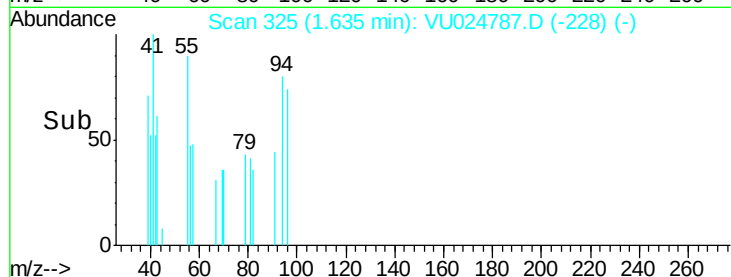
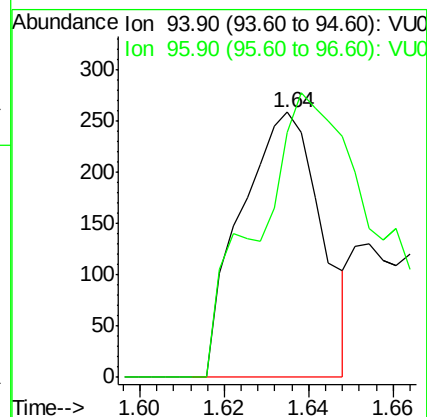
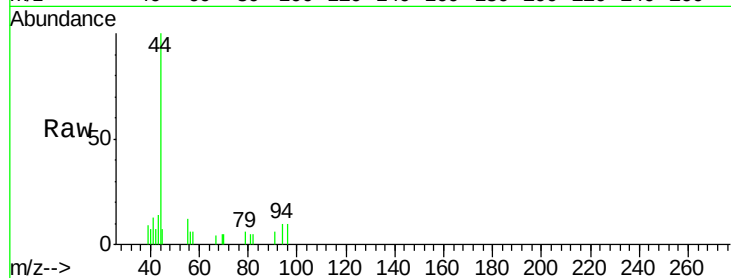
CKMW18

Tgt Ion: 94 Resp: 340

Ion Ratio Lower Upper

94 100

96 92.2 74.5 111.7



#6

Chloroethane

Concen: Below Cal

RT: 1.70 min Scan# 344

Delta R.T. 0.00 min

Lab File: VU024787.D

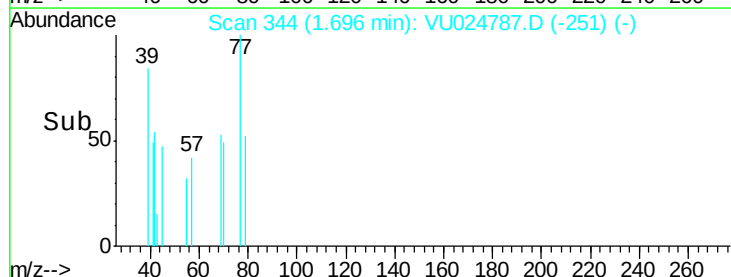
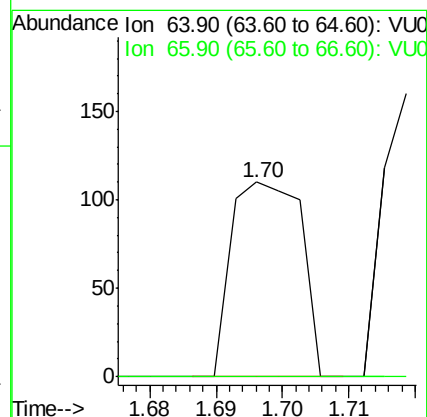
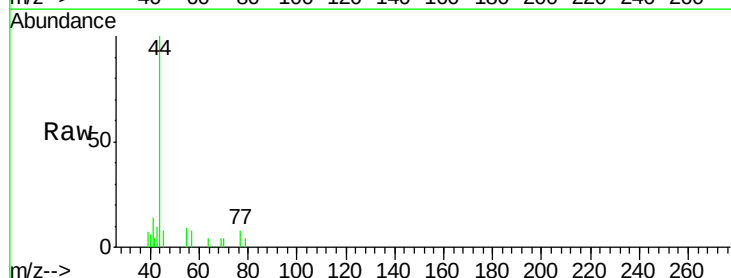
Acq: 21 Jun 2018 04:03

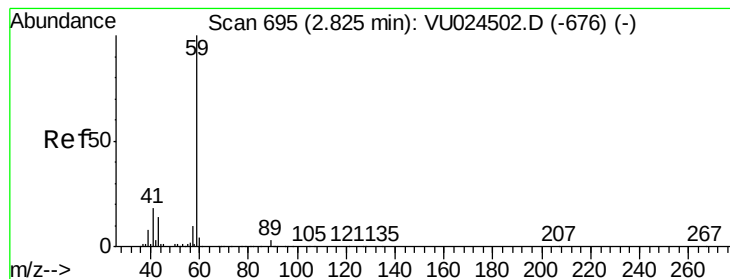
Tgt Ion: 64 Resp: 80

Ion Ratio Lower Upper

64 100

66 0.0 25.5 38.3#





#11

Tert butyl alcohol

Concen: 1.181 ug/l

RT: 2.83 min Scan# 696

Delta R.T. 0.00 min

Lab File: VU024787.D

Acq: 21 Jun 2018 04:03

Instrument :

MSVOA\_U

ClientSampleId :

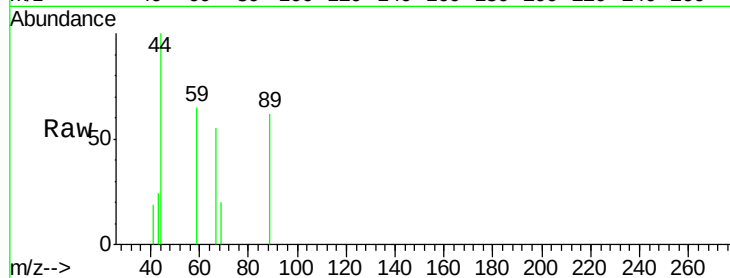
CKMW18

Tgt Ion: 59 Resp: 909

Ion Ratio Lower Upper

59 100

57 0.0 8.5 12.7#



Abundance Ion 59.00 (58.70 to 59.70): VU0

Ion 57.00 (56.70 to 57.70): VU0

2.83

300

200

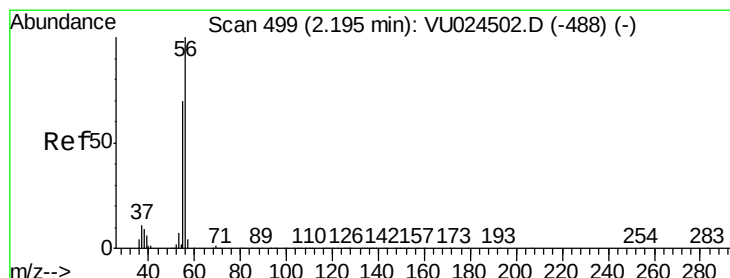
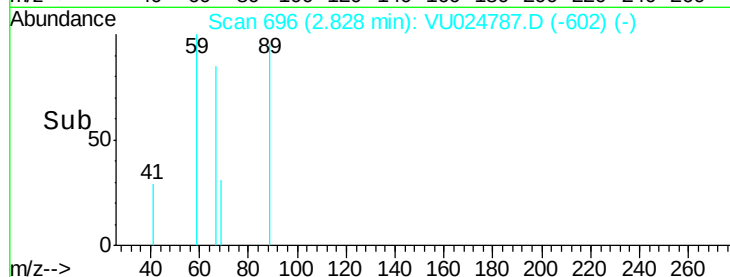
100

0

2.80

2.85

Time-->



#13

Acrolein

Concen: 0.396 ug/l

RT: 2.19 min Scan# 499

Delta R.T. -0.00 min

Lab File: VU024787.D

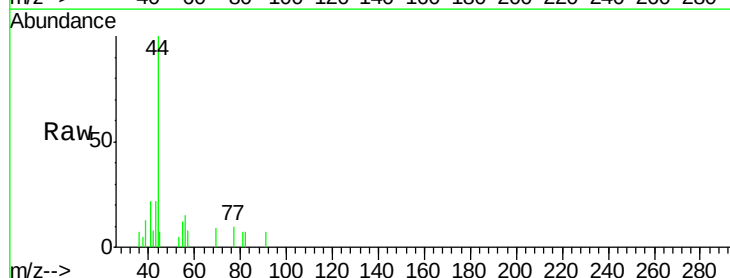
Acq: 21 Jun 2018 04:03

Tgt Ion: 56 Resp: 160

Ion Ratio Lower Upper

56 100

55 33.8 58.4 87.6#



Abundance Ion 56.00 (55.70 to 56.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

2.19

300

200

100

0

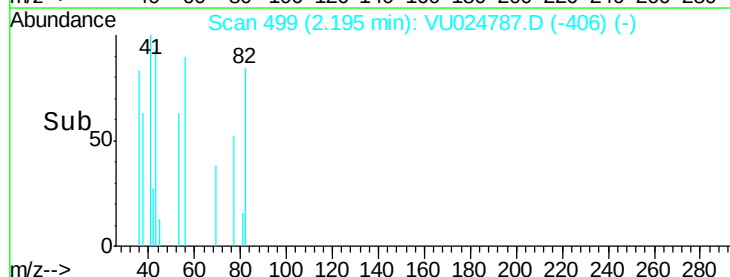
2.16

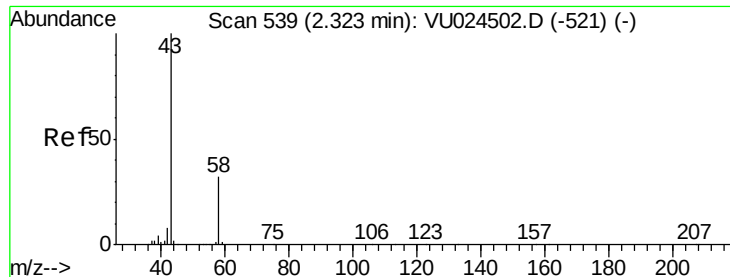
2.18

2.20

2.22

Time-->





#16

Acetone

Concen: 2.621 ug/l

RT: 2.32 min Scan# 538

Delta R.T. -0.00 min

Lab File: VU024787.D

Acq: 21 Jun 2018 04:03

Instrument :

MSVOA\_U

ClientSampleId :

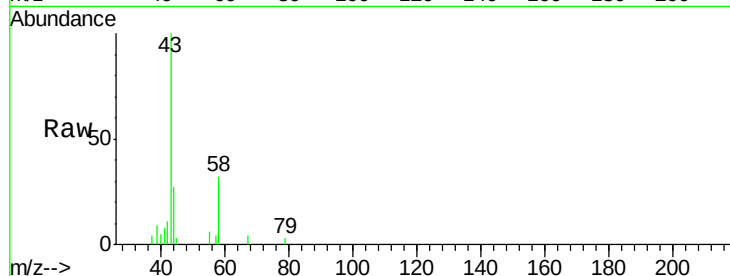
CKMW18

Tgt Ion: 43 Resp: 4456

Ion Ratio Lower Upper

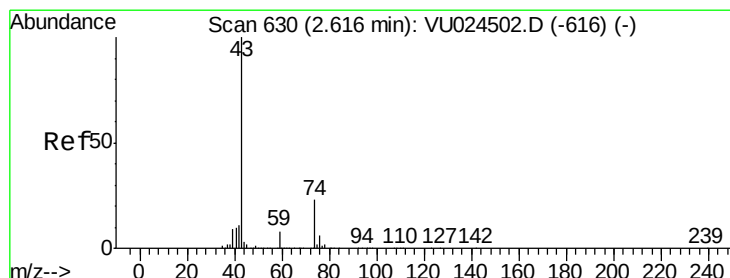
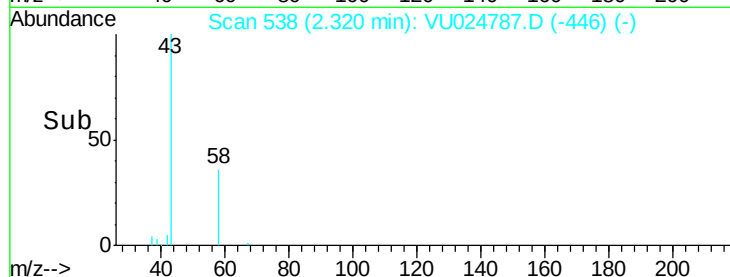
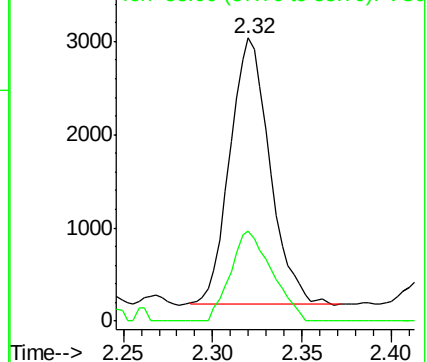
43 100

58 34.0 24.4 36.6



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0



#18

Methyl Acetate

Concen: 0.233 ug/l

RT: 2.62 min Scan# 630

Delta R.T. -0.00 min

Lab File: VU024787.D

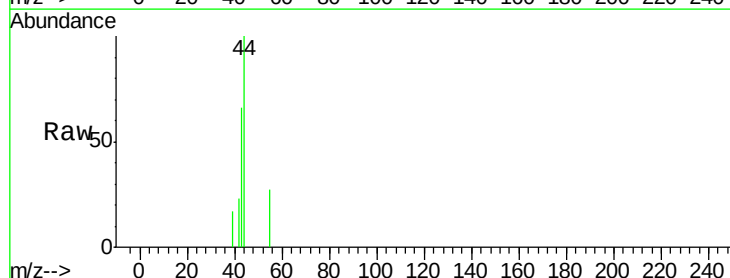
Acq: 21 Jun 2018 04:03

Tgt Ion: 43 Resp: 849

Ion Ratio Lower Upper

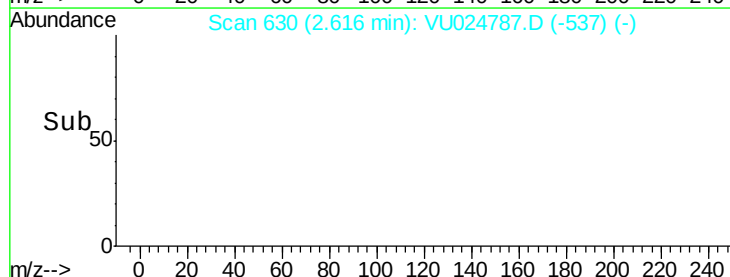
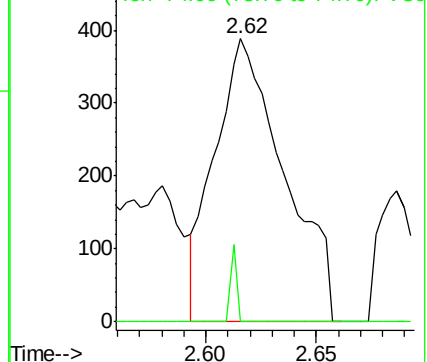
43 100

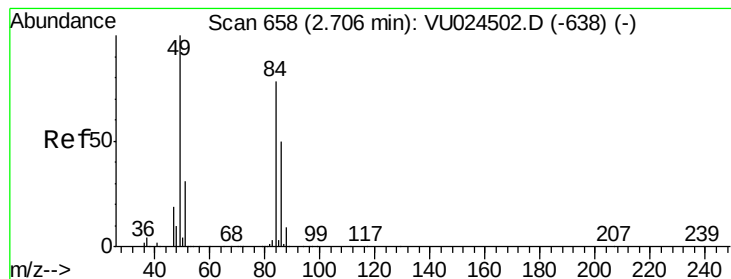
74 2.4 18.0 27.0#



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 74.00 (73.70 to 74.70): VU0





#20

Methylene Chloride

Concen: 0.310 ug/l

RT: 2.71 min Scan# 659

Delta R.T. 0.00 min

Lab File: VU024787.D

Acq: 21 Jun 2018 04:03

Instrument :

MSVOA\_U

ClientSampleId :

CKMW18

Tgt Ion: 84 Resp: 826

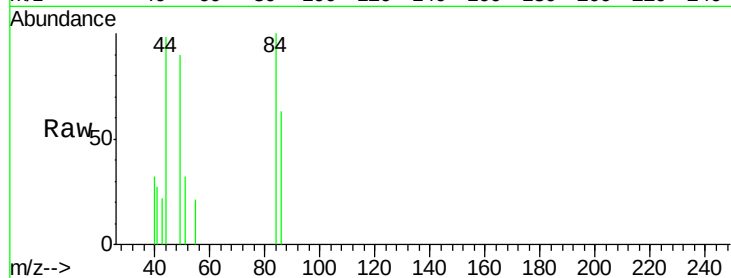
Ion Ratio Lower Upper

84 100

49 89.6 103.8 155.8#

51 31.9 32.0 48.0#

86 63.0 51.6 77.4

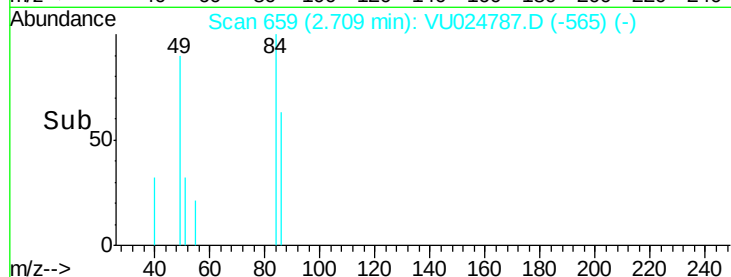
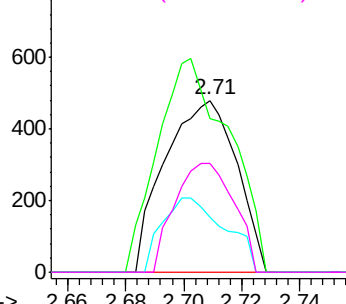


Abundance Ion 83.90 (83.60 to 84.60): VU0

Ion 48.90 (48.60 to 49.60): VU0

Ion 50.90 (50.60 to 51.60): VU0

Ion 85.90 (85.60 to 86.60): VU0



#31

Cyclohexane

Concen: Below Cal

RT: 4.99 min Scan# 1368

Delta R.T. -0.01 min

Lab File: VU024787.D

Acq: 21 Jun 2018 04:03

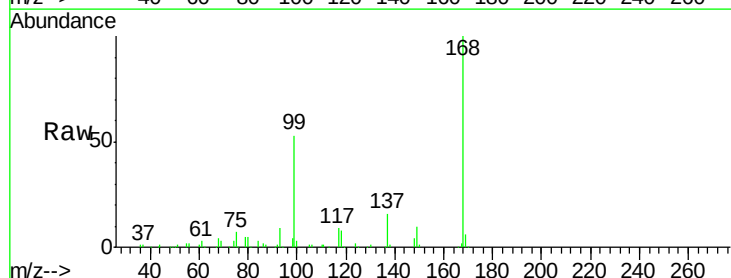
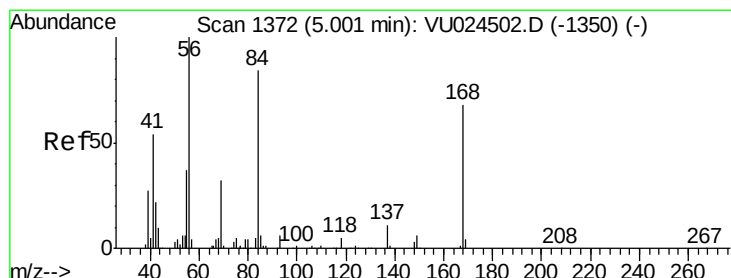
Tgt Ion: 56 Resp: 3840

Ion Ratio Lower Upper

56 100

69 181.3 24.8 37.2#

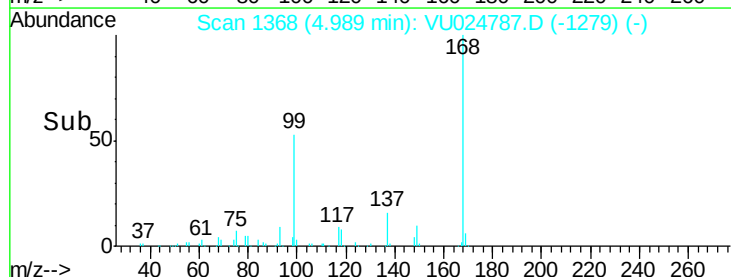
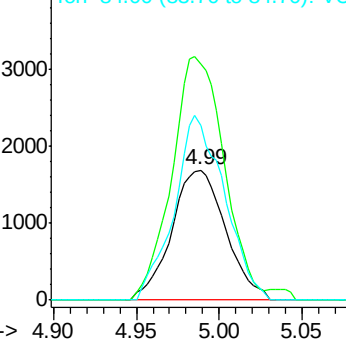
84 133.8 65.2 97.8#

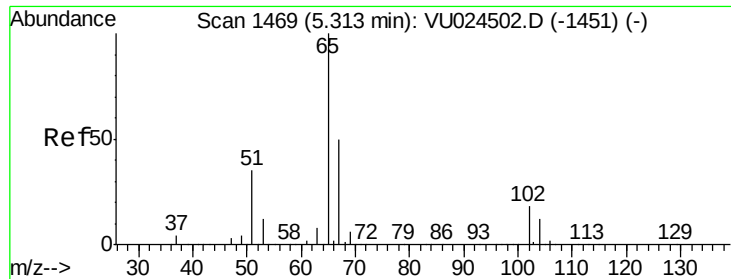


Abundance Ion 56.00 (55.70 to 56.70): VU0

Ion 69.00 (68.70 to 69.70): VU0

Ion 84.00 (83.70 to 84.70): VU0

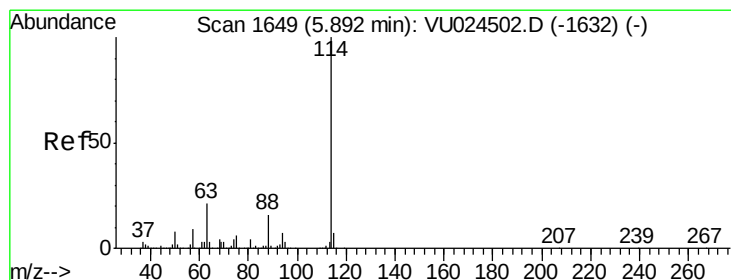
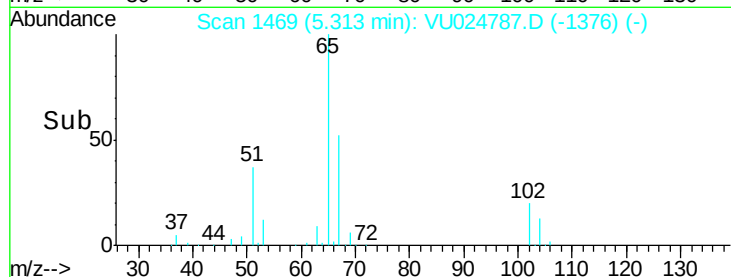
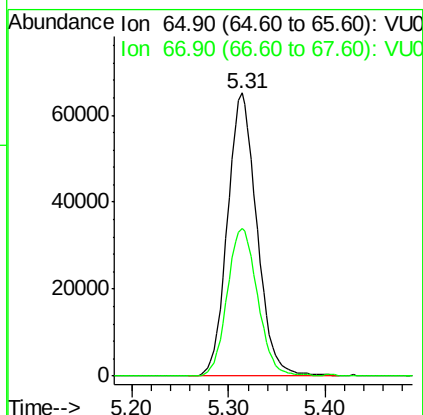
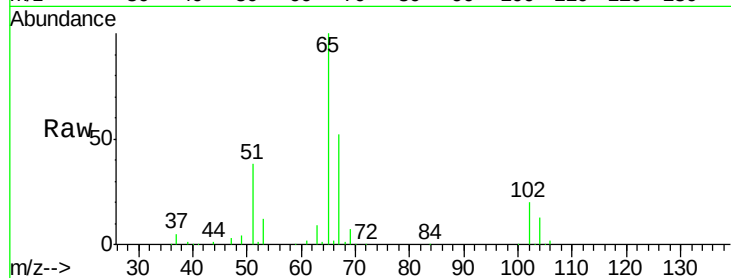




#33  
 1,2-Dichloroethane-d4  
 Concen: 43.462 ug/l  
 RT: 5.31 min Scan# 1469  
 Delta R.T. 0.00 min  
 Lab File: VU024787.D  
 Acq: 21 Jun 2018 04:03

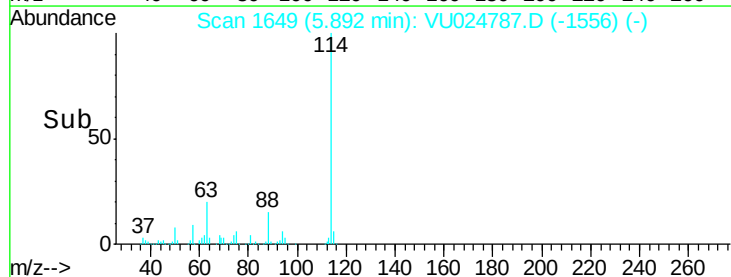
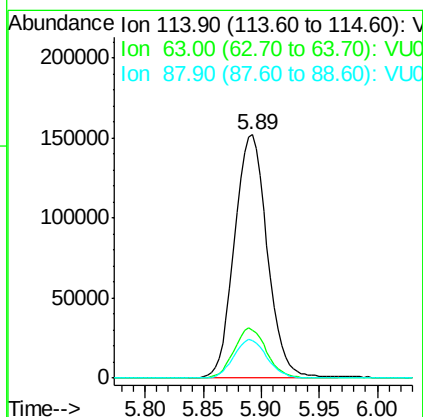
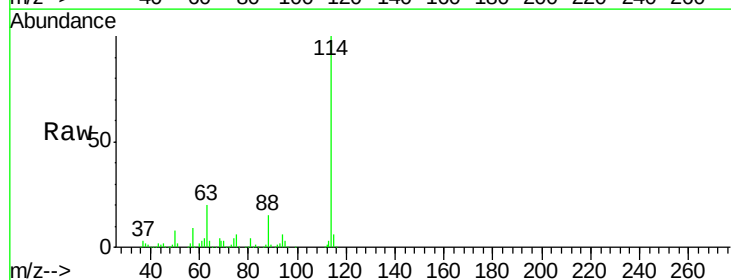
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 CKMW18

Tgt Ion: 65 Resp: 137504  
 Ion Ratio Lower Upper  
 65 100  
 67 53.7 0.0 107.0

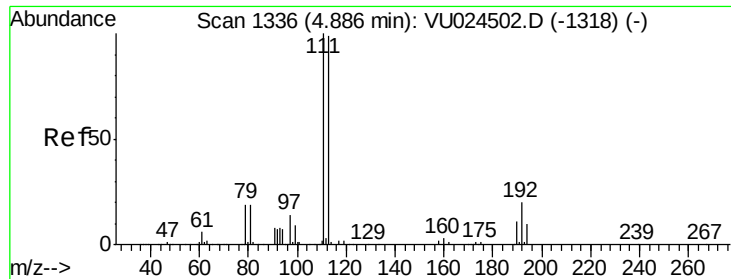


#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 5.89 min Scan# 1649  
 Delta R.T. -0.00 min  
 Lab File: VU024787.D  
 Acq: 21 Jun 2018 04:03

Tgt Ion: 114 Resp: 300446  
 Ion Ratio Lower Upper  
 114 100  
 63 19.8 0.0 45.4  
 88 15.5 0.0 31.0







#35

Dibromofluoromethane

Concen: 46.640 ug/l

RT: 4.89 min Scan# 1336

Delta R.T. 0.00 min

Lab File: VU024787.D

Acq: 21 Jun 2018 04:03

Instrument :

MSVOA\_U

ClientSampleId :

CKMW18

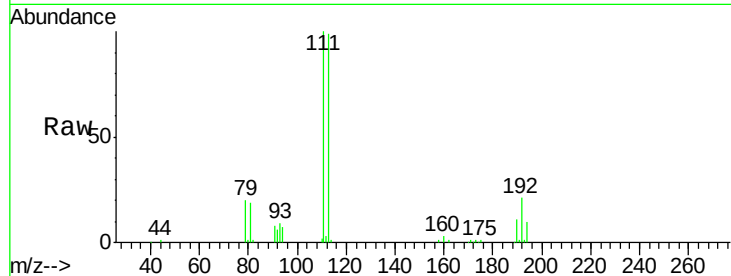
Tgt Ion:113 Resp: 116295

Ion Ratio Lower Upper

113 100

111 103.0 82.2 123.4

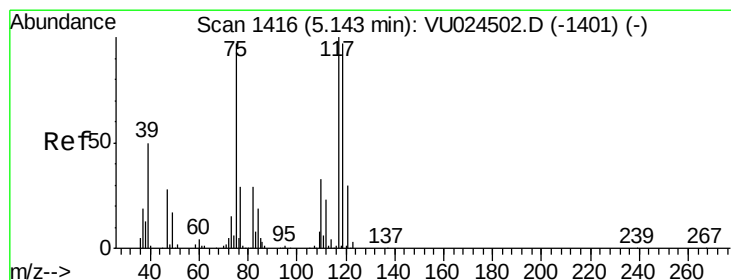
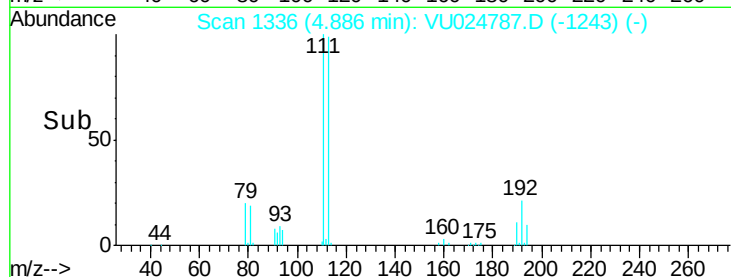
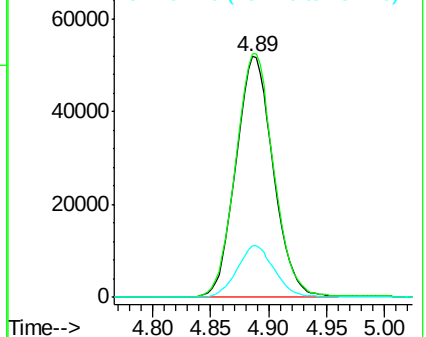
192 21.5 16.2 24.4



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: 3.966 ug/l

RT: 4.99 min Scan# 1368

Delta R.T. -0.15 min

Lab File: VU024787.D

Acq: 21 Jun 2018 04:03

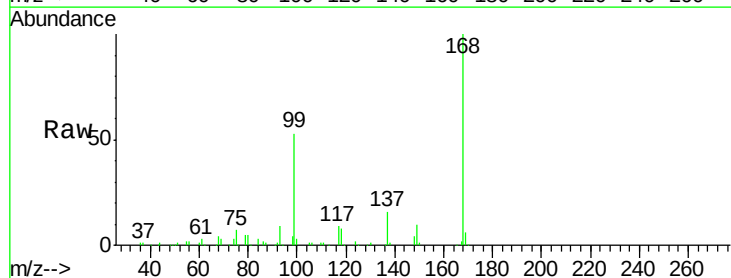
Tgt Ion: 75 Resp: 14001

Ion Ratio Lower Upper

75 100

110 7.8 17.0 50.9#

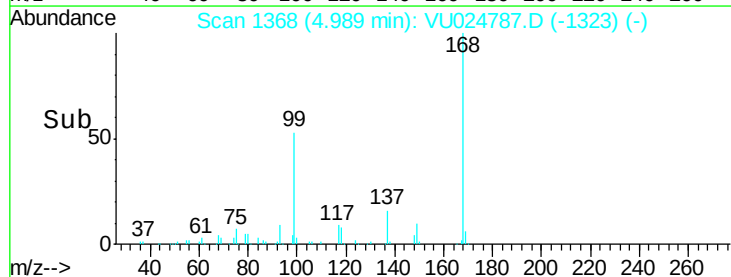
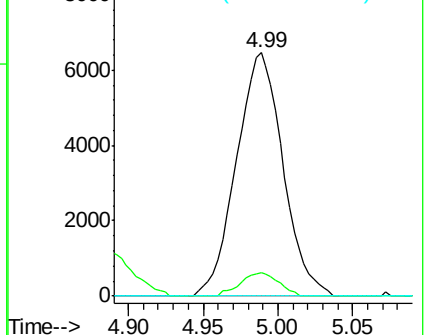
77 0.0 24.2 36.4#

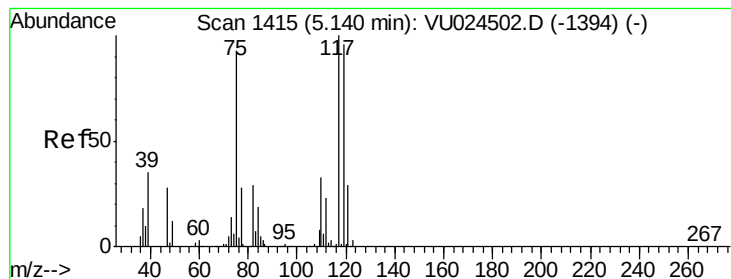


Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VU0





#38

Carbon Tetrachloride

Concen: 4.482 ug/l

RT: 4.99 min Scan# 1368

Delta R.T. -0.15 min

Lab File: VU024787.D

Acq: 21 Jun 2018 04:03

Instrument :

MSVOA\_U

ClientSampleId :

CKMW18

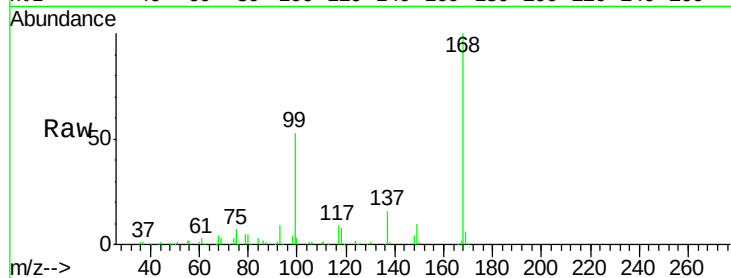
Tgt Ion:117 Resp: 17401

Ion Ratio Lower Upper

117 100

119 3.5 76.1 114.1#

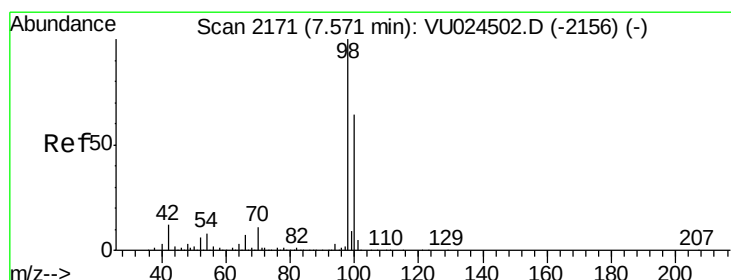
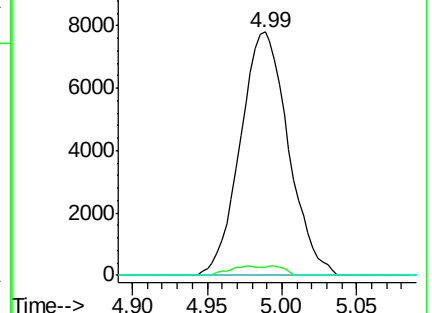
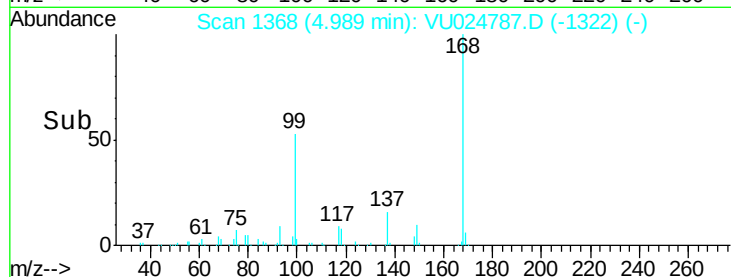
121 0.0 23.7 35.5#



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



#50

Toluene-d8

Concen: 48.346 ug/l

RT: 7.57 min Scan# 2171

Delta R.T. -0.00 min

Lab File: VU024787.D

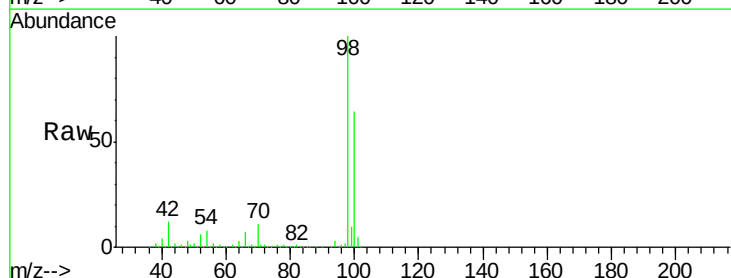
Acq: 21 Jun 2018 04:03

Tgt Ion: 98 Resp: 439711

Ion Ratio Lower Upper

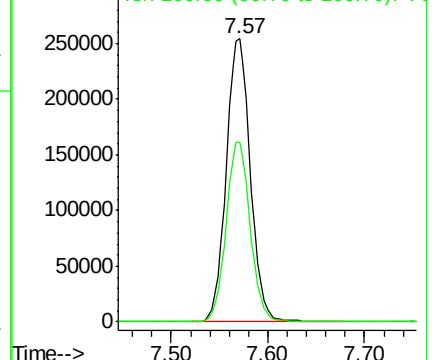
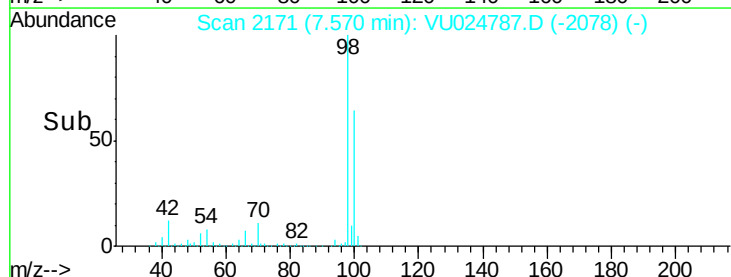
98 100

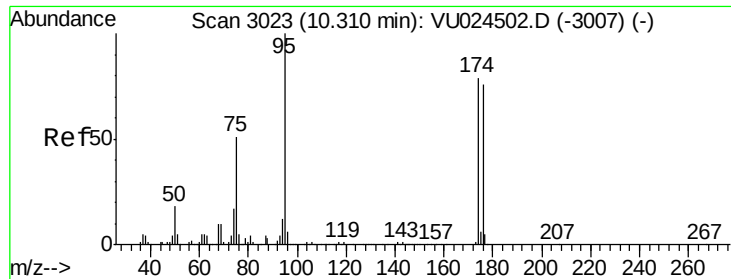
100 63.6 51.1 76.7



Abundance Ion 98.00 (97.70 to 98.70): VU0

Ion 100.00 (99.70 to 100.70): VU





#62

4-Bromofluorobenzene

Concen: 44.090 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. 0.00 min

Lab File: VU024787.D

Acq: 21 Jun 2018 04:03

Instrument :

MSVOA\_U

ClientSampleId :

CKMW18

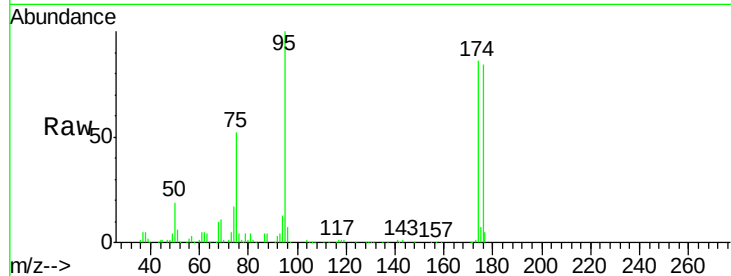
Tgt Ion: 95 Resp: 159215

Ion Ratio Lower Upper

95 100

174 86.0 0.0 165.8

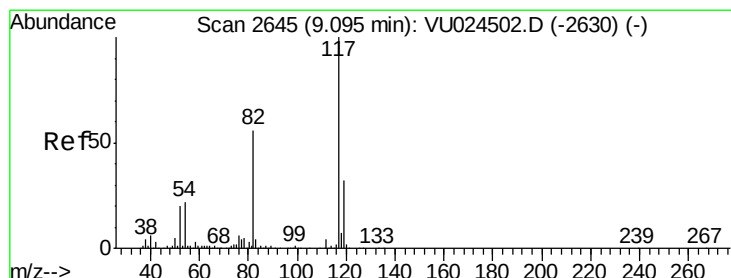
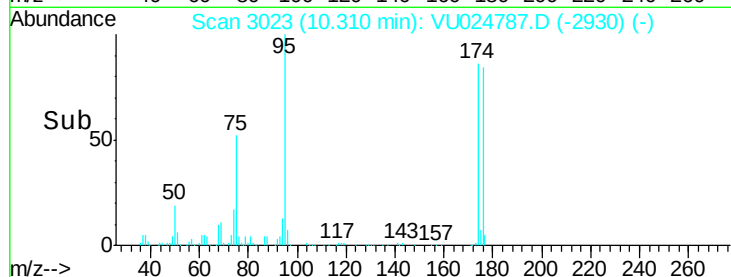
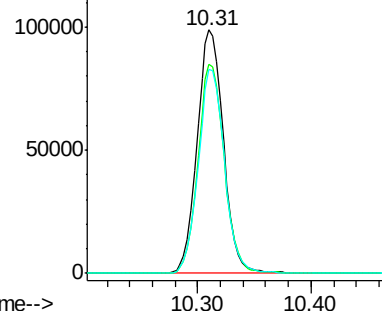
176 83.8 0.0 159.4



Abundance Ion 94.90 (94.60 to 95.60): VU024502.D (-3007) (-)

Ion 173.80 (173.50 to 174.50): VU024502.D (-3007) (-)

Ion 175.80 (175.50 to 176.50): VU024502.D (-3007) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.09 min Scan# 2645

Delta R.T. 0.00 min

Lab File: VU024787.D

Acq: 21 Jun 2018 04:03

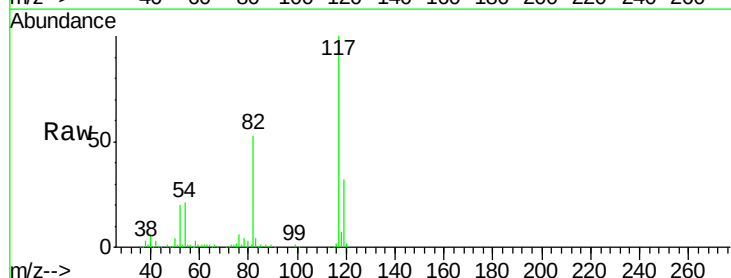
Tgt Ion: 117 Resp: 283114

Ion Ratio Lower Upper

117 100

82 53.2 44.3 66.5

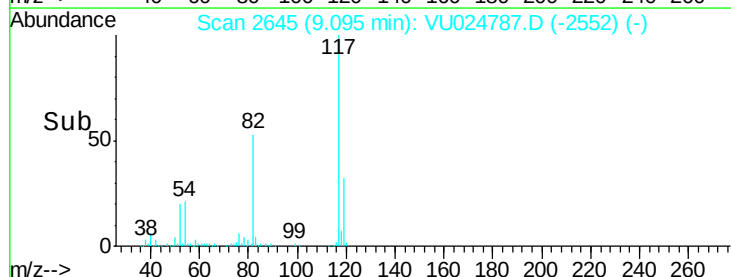
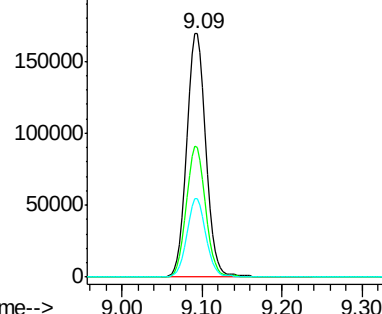
119 32.3 25.4 38.2

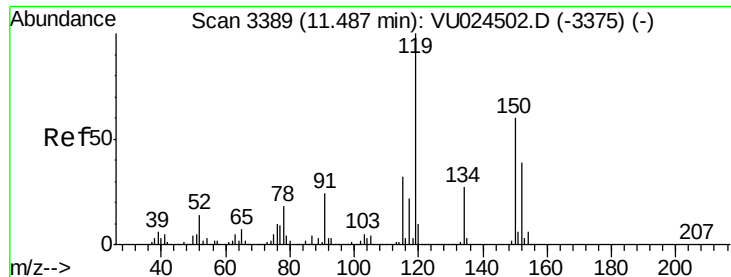


Abundance Ion 116.90 (116.60 to 117.60): VU024502.D (-2630) (-)

Ion 82.00 (81.70 to 82.70): VU024502.D (-2630) (-)

Ion 118.90 (118.60 to 119.60): VU024502.D (-2630) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 11.49 min Scan# 3389

Delta R.T. 0.00 min

Lab File: VU024787.D

Acq: 21 Jun 2018 04:03

Instrument :

MSVOA\_U

ClientSampleId :

CKMW18

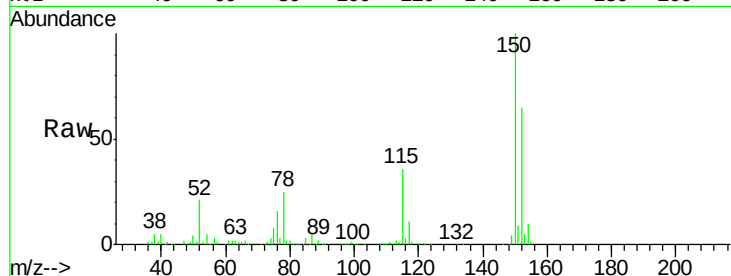
Tgt Ion:152 Resp: 153109

Ion Ratio Lower Upper

152 100

115 56.3 43.0 129.0

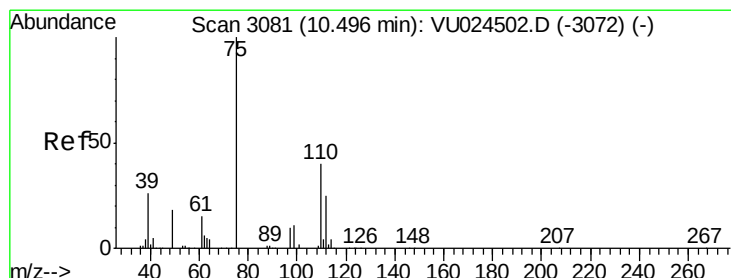
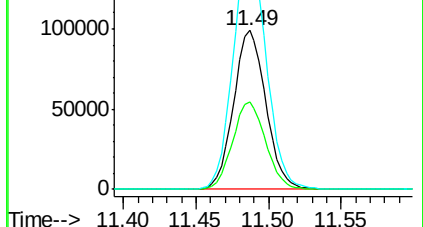
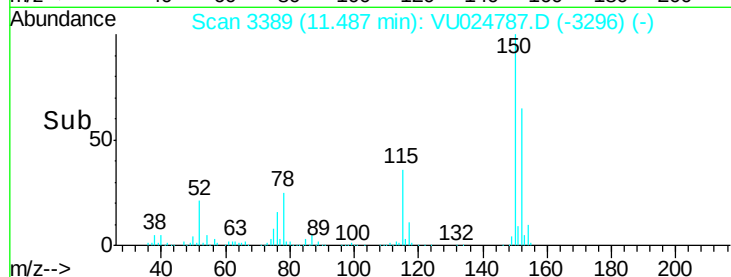
150 154.8 0.0 354.0



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: 24.264 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. -0.19 min

Lab File: VU024787.D

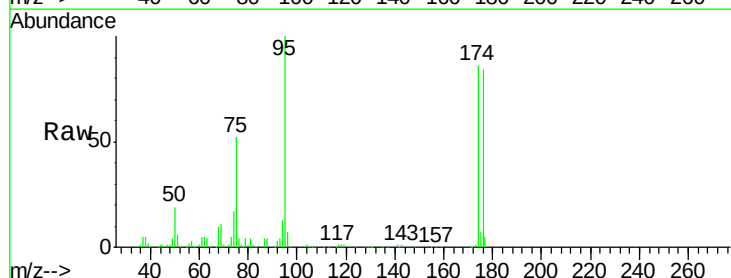
Acq: 21 Jun 2018 04:03

Tgt Ion: 75 Resp: 81792

Ion Ratio Lower Upper

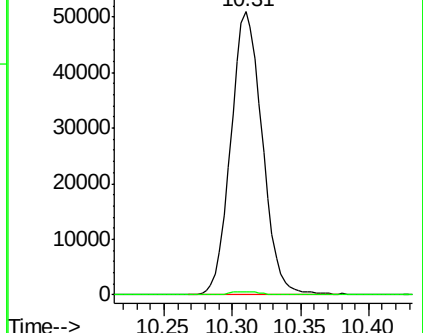
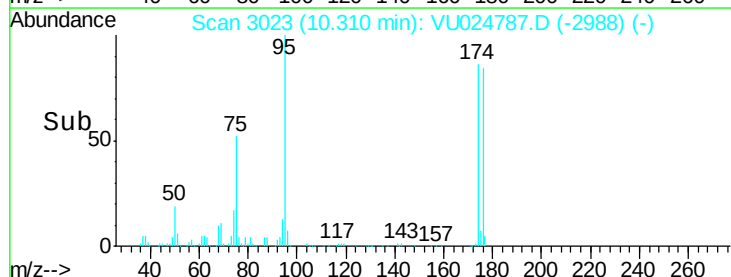
75 100

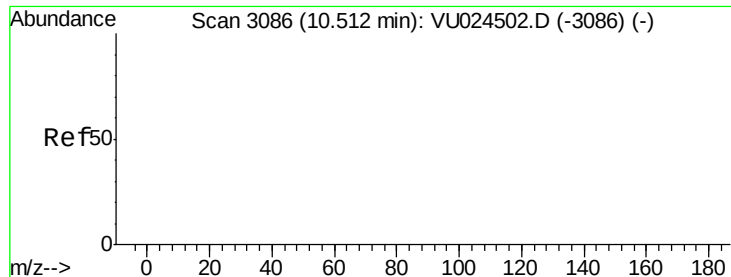
77 1.1 20.9 62.7#



Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 77.00 (76.70 to 77.70): VU0

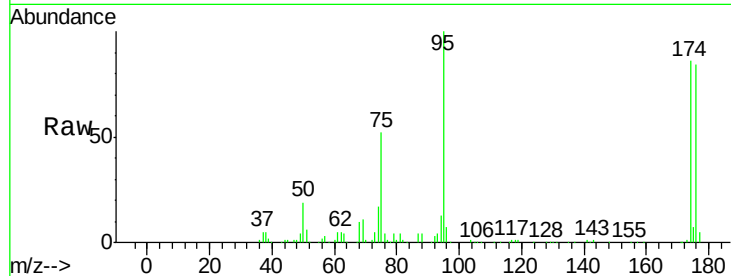




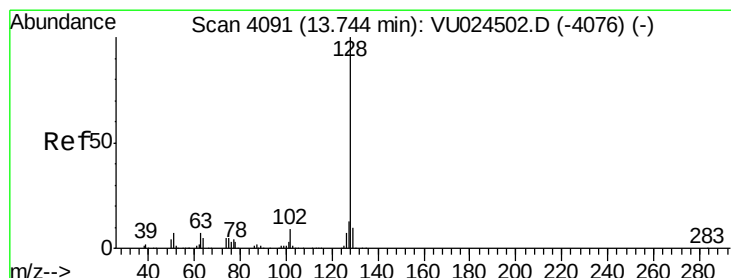
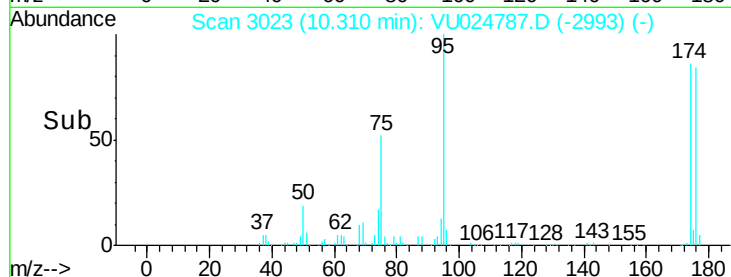
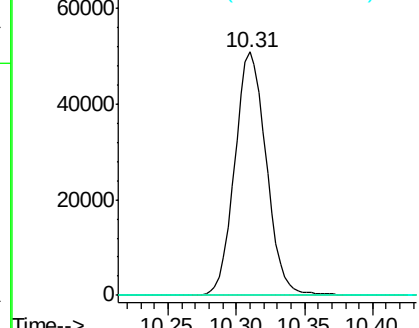
#81  
trans-1,4-Dichloro-2-butene  
Concen: 56.157 ug/l  
RT: 10.31 min Scan# 3023  
Delta R.T. -0.20 min  
Lab File: VU024787.D  
Acq: 21 Jun 2018 04:03

Instrument :  
MSVOA\_U  
ClientSampleId :  
CKMW18

Tgt Ion: 75 Resp: 81792  
Ion Ratio Lower Upper  
75 100  
53 0.0 0.0 0.0  
89 0.0 0.0 0.0

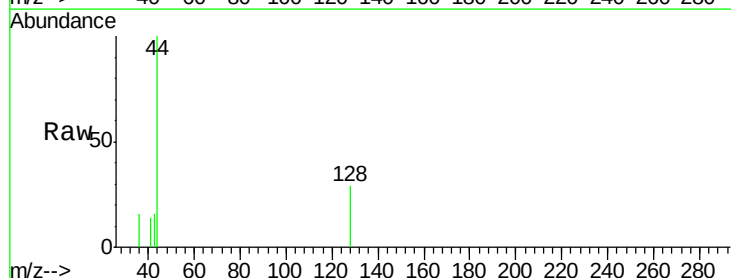


Abundance Ion 74.90 (74.60 to 75.60): VU0  
Ion 53.00 (52.70 to 53.70): VU0  
Ion 88.90 (88.60 to 89.60): VU0



#95  
Naphthalene  
Concen: 0.696 ug/l  
RT: 13.76 min Scan# 4095  
Delta R.T. 0.01 min  
Lab File: VU024787.D  
Acq: 21 Jun 2018 04:03

Tgt Ion: 128 Resp: 191  
Ion Ratio Lower Upper  
128 100  
127 0.0 10.6 16.0#  
129 0.0 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

