

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_U\DATA\VU092418\  
 Data File : VU027094.D  
 Acq On : 24 Sep 2018 09:26  
 Operator : MD/SY  
 Sample : VU0924WBL01  
 Misc : 5.0mL/MSVOA\_U/WATER  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VU0924WBL01

Quant Time: Sep 25 01:32:54 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\82U092218W.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Sep 22 01:31:57 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 4.98  | 168  | 99121    | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 5.89  | 114  | 164525   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 9.09  | 117  | 154643   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 11.48 | 152  | 68328    | 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   | 100876   | 50.57 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 101.14% |          |
| 35) Dibromofluoromethane    | 4.88  | 113  | 68909    | 48.32 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 96.64%  |          |
| 50) Toluene-d8              | 7.57  | 98   | 265990   | 48.94 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 97.88%  |          |
| 62) 4-Bromofluorobenzene    | 10.31 | 95   | 83615    | 44.84 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 89.68%  |          |

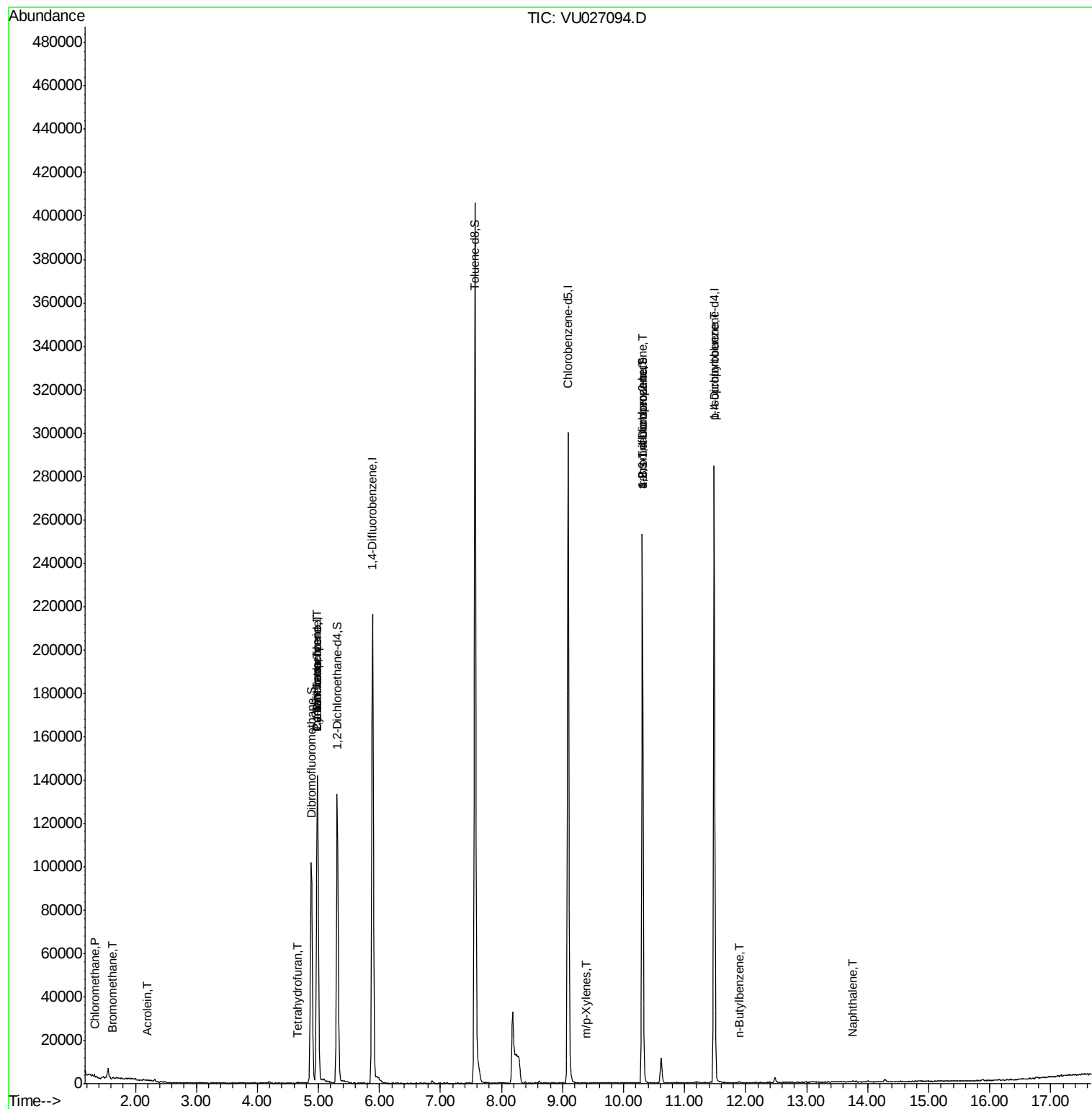
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 3) Chloromethane               | 1.33  | 50   | 797      | 0.357     | ug/l   | 100    |
| 5) Bromomethane                | 1.62  | 94   | 429      | 0.362     | ug/l   | 96     |
| 13) Acrolein                   | 2.20  | 56   | 82       | 0.333     | ug/l # | 43     |
| 16) Acetone                    | 2.32  | 43   | 599      | Below Cal | #      | 44     |
| 29) Tetrahydrofuran            | 4.66  | 42   | 261      | 0.257     | ug/l # | 37     |
| 31) Cyclohexane                | 4.98  | 56   | 2586     | 0.298     | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 4.98  | 75   | 9404     | 4.283     | ug/l # | 49     |
| 38) Carbon Tetrachloride       | 4.99  | 117  | 10211    | 4.887     | ug/l # | 18     |
| 68) m/p-Xylenes                | 9.38  | 106  | 60       | 1.522     | ug/l # | 44     |
| 76) 1,2,3-Trichloropropane     | 10.31 | 75   | 45837    | 22.082    | ug/l # | 36     |
| 81) trans-1,4-Dichloro-2-buten | 10.31 | 75   | 45837    | 70.666    | ug/l # | 100    |
| 86) p-Isopropyltoluene         | 11.48 | 119  | 171      | 0.962     | ug/l # | 1      |
| 89) n-Butylbenzene             | 11.90 | 91   | 182      | 2.429     | ug/l # | 84     |
| 95) Naphthalene                | 13.75 | 128  | 941      | 1.850     | ug/l # | 69     |

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

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Instrument :  
MSVOA\_U  
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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\82U092218W.M  
Quant Title : SW846 8260  
QLast Update : Sat Sep 22 01:31:57 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.98 min Scan# 1185

Delta R.T. -0.00 min

Lab File: VU027094.D

Acq: 24 Sep 2018 09:26

Instrument :

MSVOA\_U

ClientSampleId :

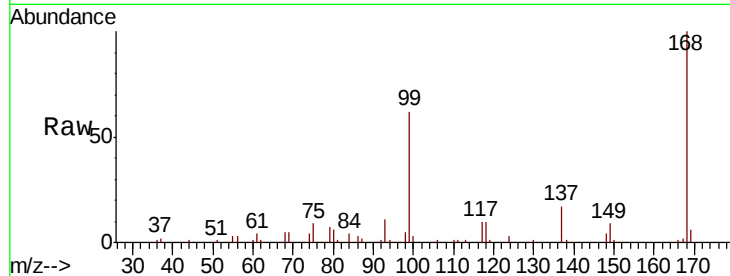
VU0924WBL01

Tgt Ion:168 Resp: 99121

Ion Ratio Lower Upper

168 100

99 62.2 48.1 72.1



Abundance Ion 167.90 (167.60 to 168.60): VU026969.D (-1169) (-)

Ion 98.90 (98.60 to 99.60): VU026969.D (-1169) (-)

4.98

50000

40000

30000

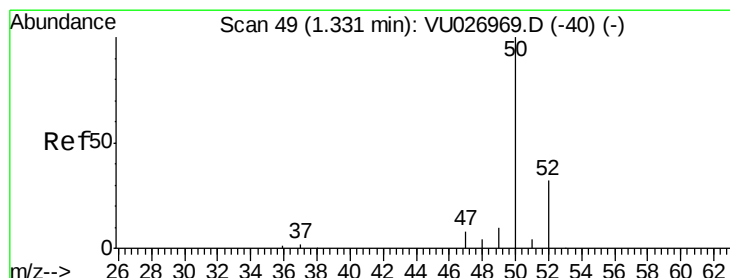
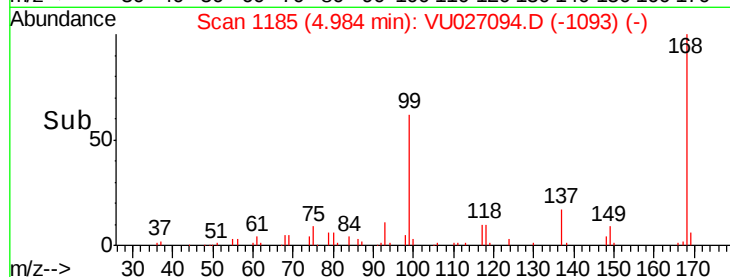
20000

10000

0

4.90 4.95 5.00 5.05

Time-->



#3

Chloromethane

Concen: 0.357 ug/l

RT: 1.33 min Scan# 49

Delta R.T. 0.00 min

Lab File: VU027094.D

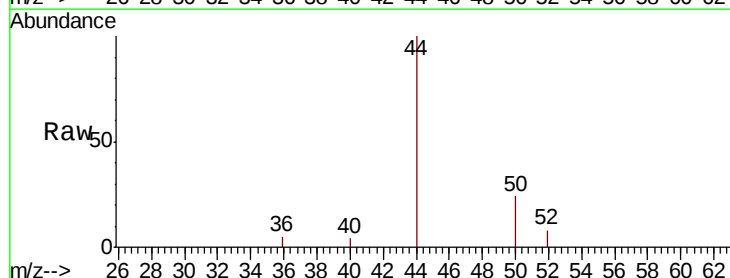
Acq: 24 Sep 2018 09:26

Tgt Ion: 50 Resp: 797

Ion Ratio Lower Upper

50 100

52 32.4 25.9 38.9



Abundance Ion 49.90 (49.60 to 50.60): VU026969.D (-40) (-)

Ion 51.90 (51.60 to 52.60): VU026969.D (-40) (-)

1.33

800

600

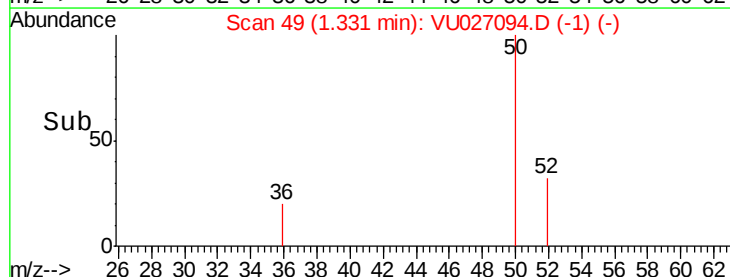
400

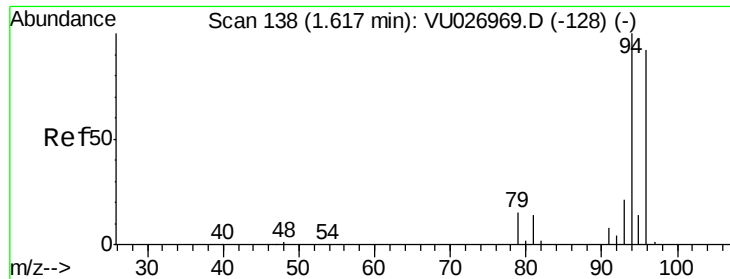
200

0

1.30 1.32 1.34 1.36

Time-->

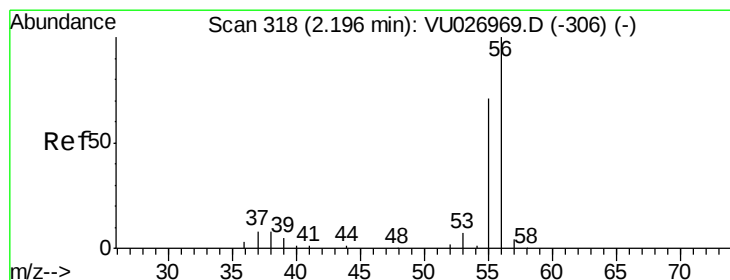
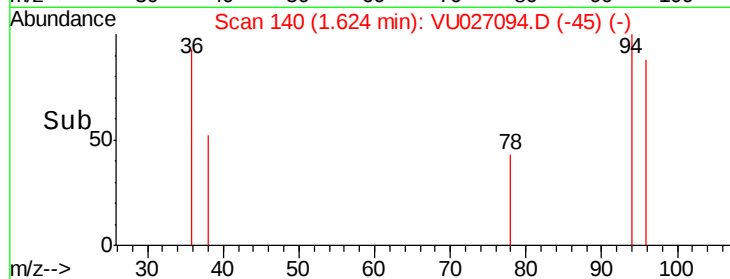
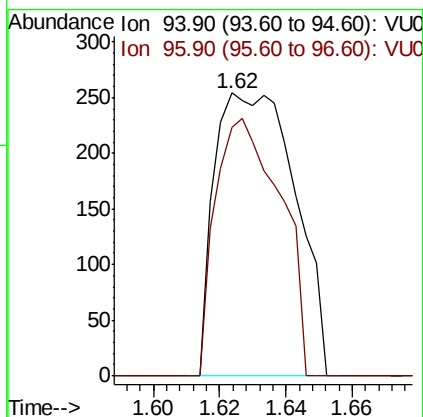
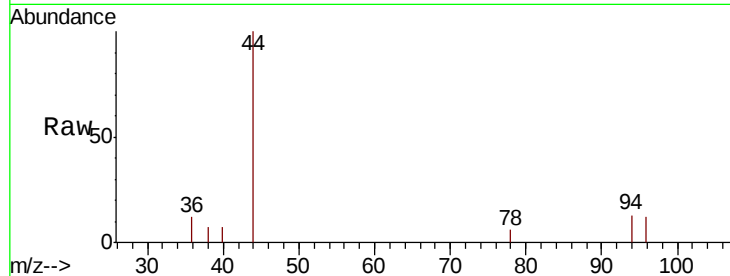




#5  
Bromomethane  
Concen: 0.362 ug/l  
RT: 1.62 min Scan# 140  
Delta R.T. 0.01 min  
Lab File: VU027094.D  
Acq: 24 Sep 2018 09:26

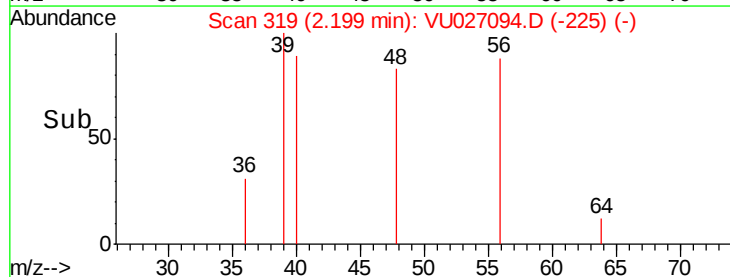
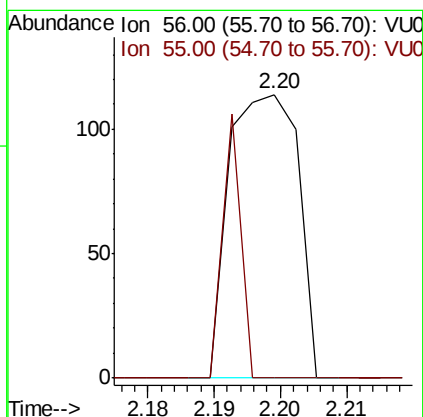
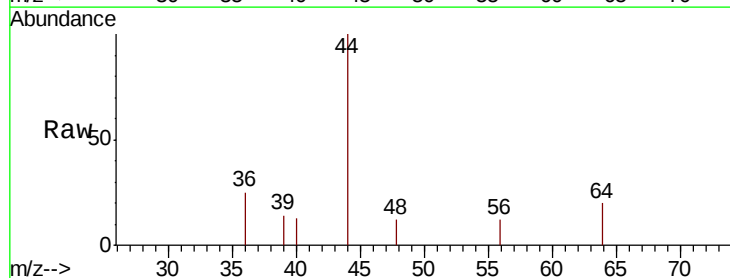
Instrument :  
MSVOA\_U  
ClientSampleId :  
VU0924WBL01

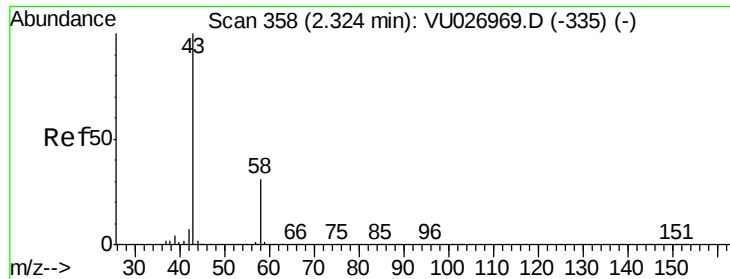
Tgt Ion: 94 Resp: 429  
Ion Ratio Lower Upper  
94 100  
96 87.8 73.2 109.8



#13  
Acrolein  
Concen: 0.333 ug/l  
RT: 2.20 min Scan# 319  
Delta R.T. 0.00 min  
Lab File: VU027094.D  
Acq: 24 Sep 2018 09:26

Tgt Ion: 56 Resp: 82  
Ion Ratio Lower Upper  
56 100  
55 24.4 57.1 85.7#





#16

Acetone

Concen: Below Cal

RT: 2.32 min Scan# 357

Delta R.T. -0.00 min

Lab File: VU027094.D

Acq: 24 Sep 2018 09:26

Instrument :

MSVOA\_U

ClientSampleId :

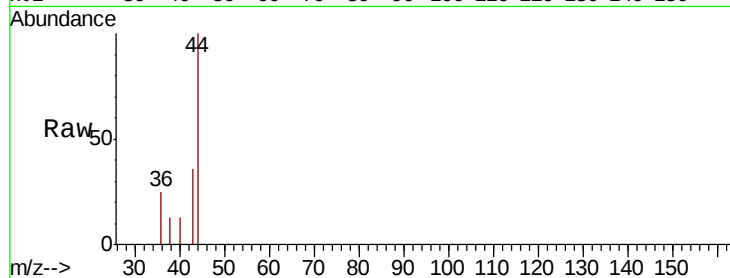
VU0924WBL01

Tgt Ion: 43 Resp: 599

Ion Ratio Lower Upper

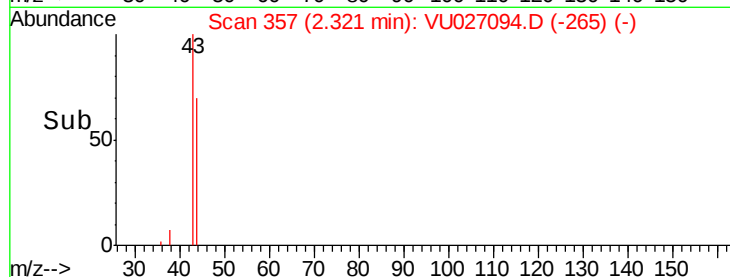
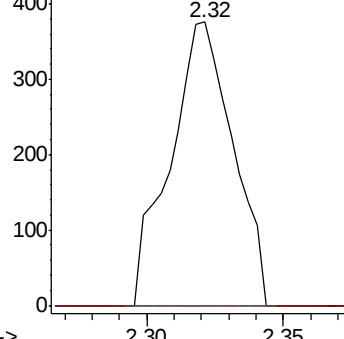
43 100

58 0.0 24.6 36.8#

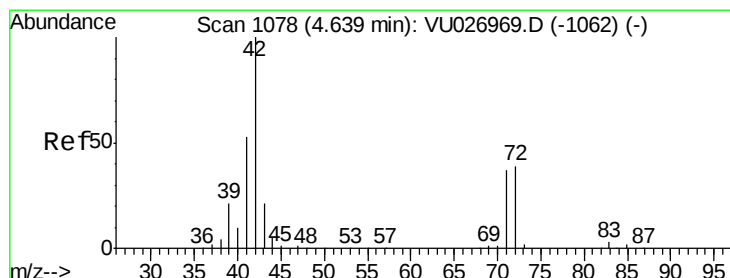


Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0



Time-->



#29

Tetrahydrofuran

Concen: 0.257 ug/l

RT: 4.66 min Scan# 1083

Delta R.T. 0.02 min

Lab File: VU027094.D

Acq: 24 Sep 2018 09:26

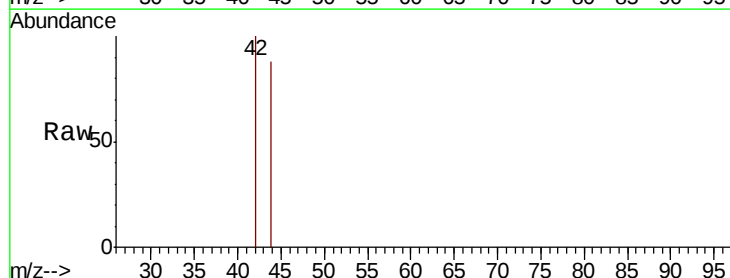
Tgt Ion: 42 Resp: 261

Ion Ratio Lower Upper

42 100

72 0.0 31.7 47.5#

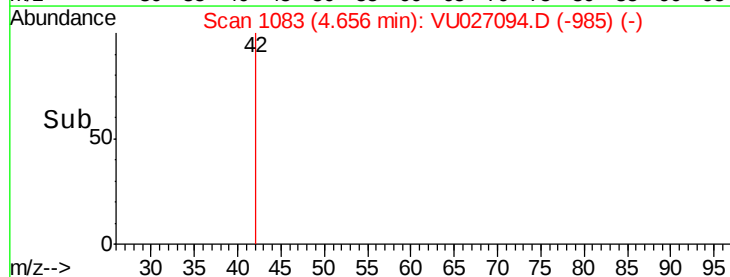
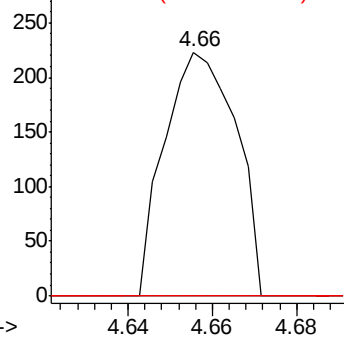
71 0.0 29.6 44.4#



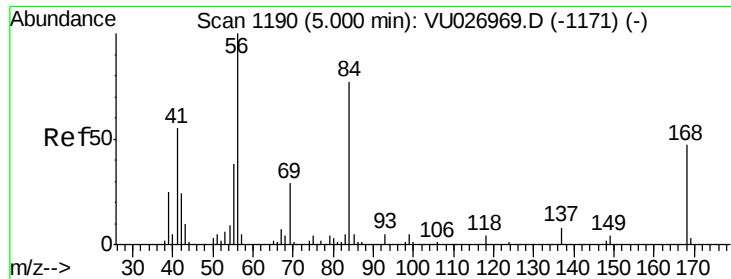
Abundance Ion 42.00 (41.70 to 42.70): VU0

Ion 72.00 (71.70 to 72.70): VU0

Ion 71.00 (70.70 to 71.70): VU0



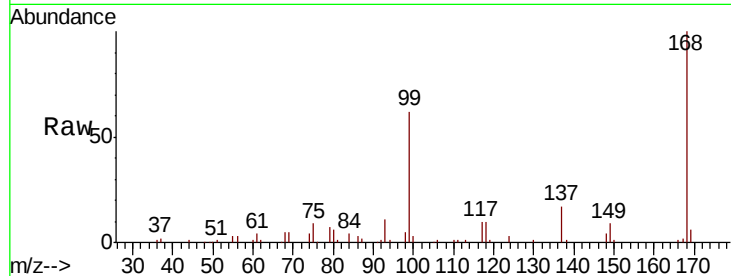
Time-->



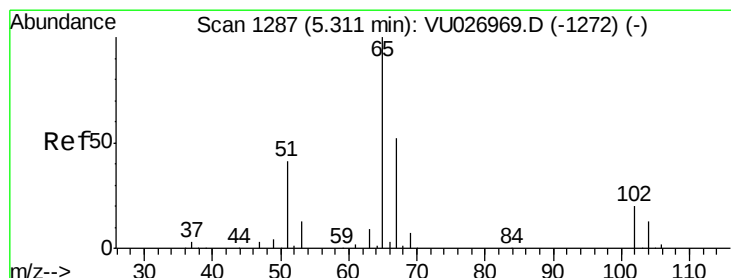
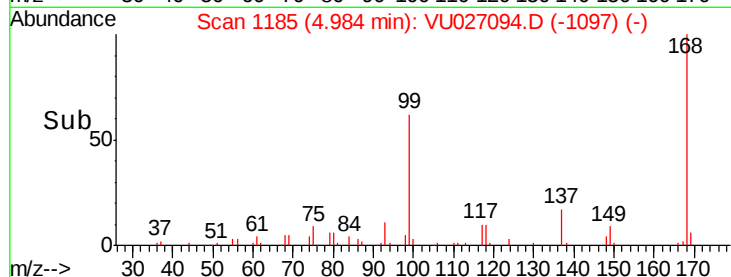
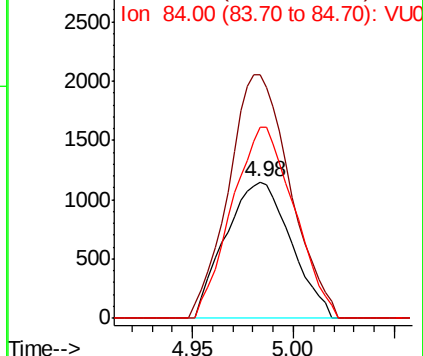
#31  
Cyclohexane  
Concen: 0.298 ug/l  
RT: 4.98 min Scan# 1185  
Delta R.T. -0.02 min  
Lab File: VU027094.D  
Acq: 24 Sep 2018 09:26

Instrument :  
MSVOA\_U  
ClientSampleId :  
VU0924WBL01

Tgt Ion: 56 Resp: 2586  
Ion Ratio Lower Upper  
56 100  
69 178.2 23.0 34.4#  
84 140.3 61.4 92.2#

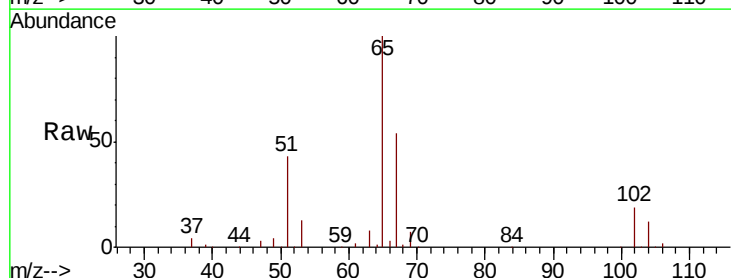


Abundance Ion 56.00 (55.70 to 56.70): VU0  
Ion 69.00 (68.70 to 69.70): VU0  
Ion 84.00 (83.70 to 84.70): VU0

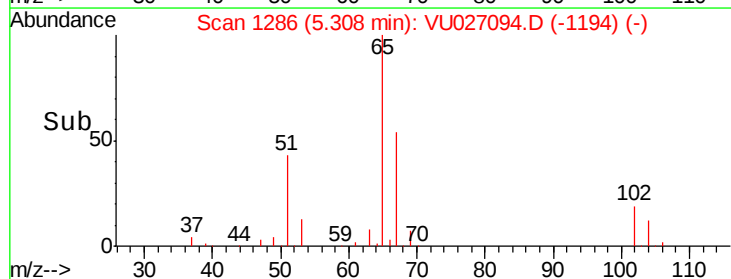
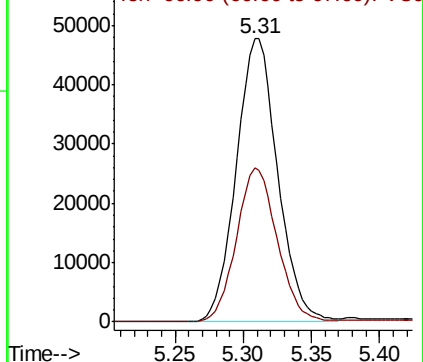


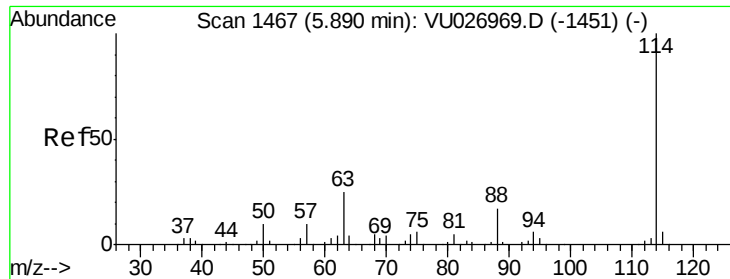
#33  
1,2-Dichloroethane-d4  
Concen: 50.565 ug/l  
RT: 5.31 min Scan# 1286  
Delta R.T. -0.00 min  
Lab File: VU027094.D  
Acq: 24 Sep 2018 09:26

Tgt Ion: 65 Resp: 100876  
Ion Ratio Lower Upper  
65 100  
67 53.7 0.0 105.6



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

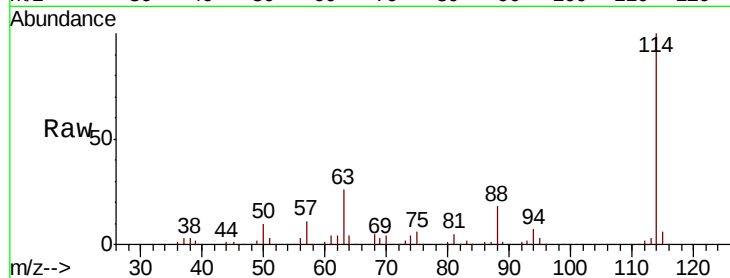




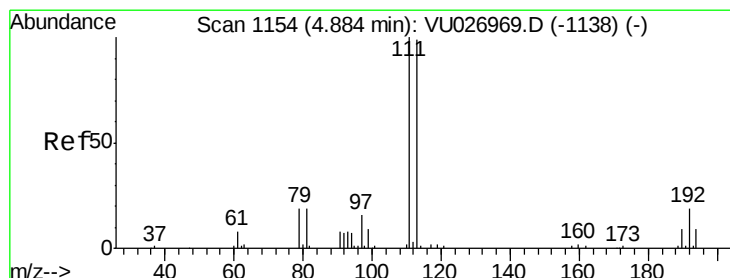
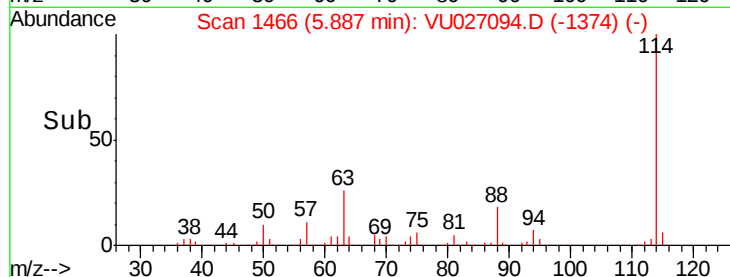
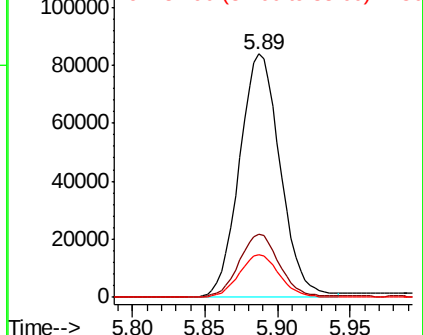
#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 5.89 min Scan# 1466  
 Delta R.T. -0.00 min  
 Lab File: VU027094.D  
 Acq: 24 Sep 2018 09:26

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VU0924WBL01

Tgt Ion:114 Resp: 164525  
 Ion Ratio Lower Upper  
 114 100  
 63 25.9 0.0 49.2  
 88 17.7 0.0 33.8

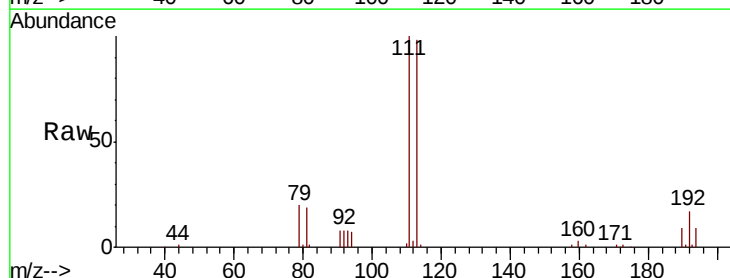


Abundance Ion 113.90 (113.60 to 114.60): V  
 Ion 63.00 (62.70 to 63.70): VU0  
 Ion 87.90 (87.60 to 88.60): VU0

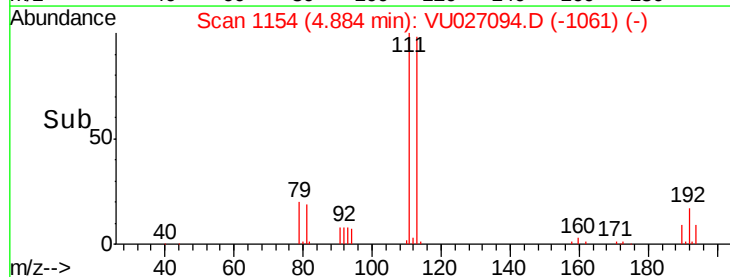
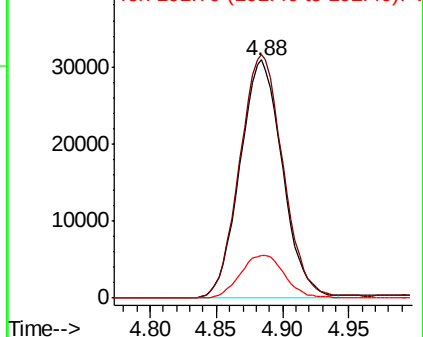


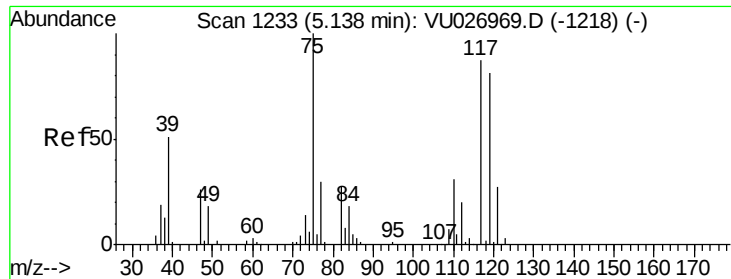
#35  
 Dibromofluoromethane  
 Concen: 48.320 ug/l  
 RT: 4.88 min Scan# 1154  
 Delta R.T. 0.00 min  
 Lab File: VU027094.D  
 Acq: 24 Sep 2018 09:26

Tgt Ion:113 Resp: 68909  
 Ion Ratio Lower Upper  
 113 100  
 111 104.2 82.2 123.4  
 192 18.8 15.2 22.8



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

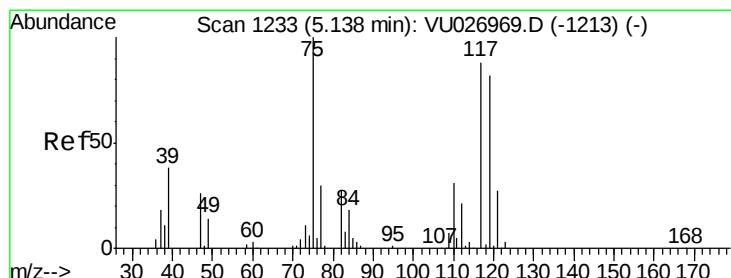
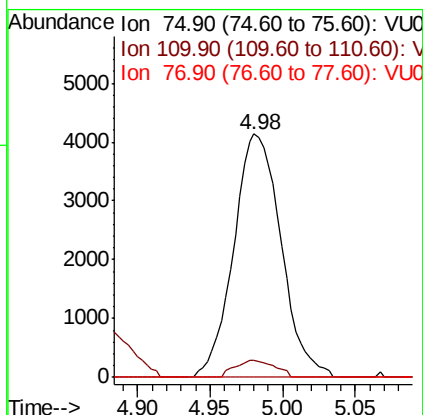
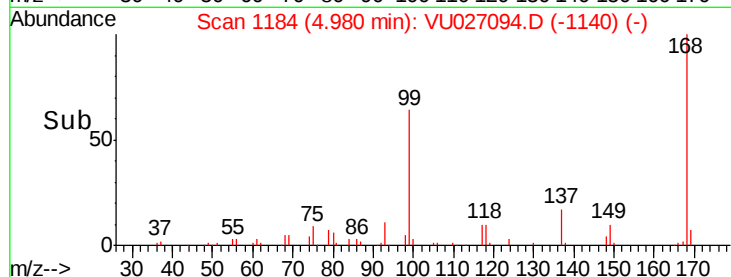
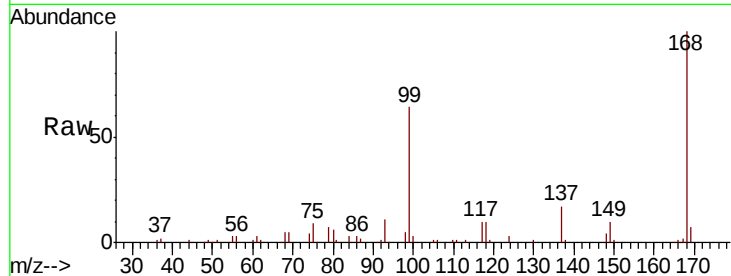




#36  
 1,1-Dichloropropene  
 Concen: 4.283 ug/l  
 RT: 4.98 min Scan# 1184  
 Delta R.T. -0.16 min  
 Lab File: VU027094.D  
 Acq: 24 Sep 2018 09:26

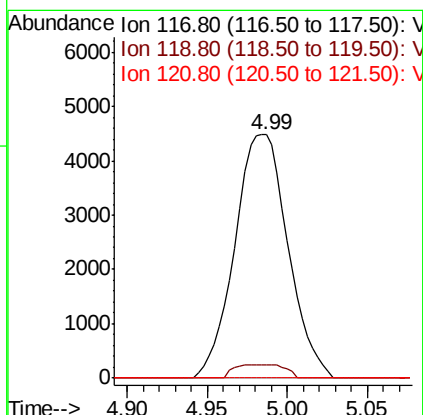
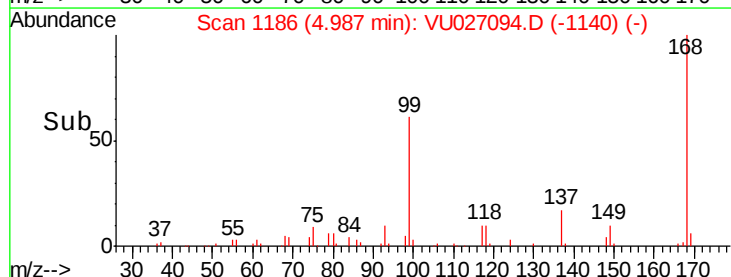
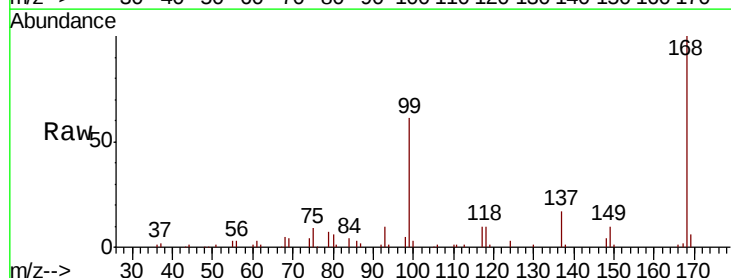
Instrument :  
 MSVOA\_U  
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 VU0924WBL01

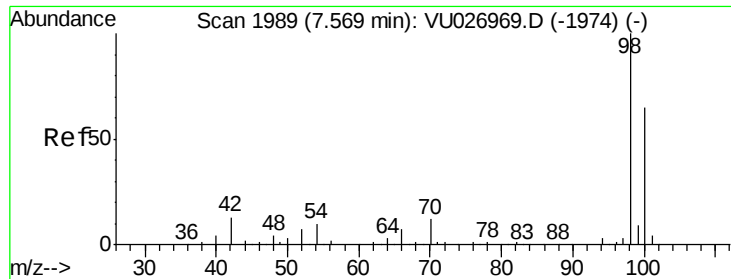
Tgt Ion: 75 Resp: 9404  
 Ion Ratio Lower Upper  
 75 100  
 110 5.8 16.1 48.2#  
 77 0.0 24.6 36.8#



#38  
 Carbon Tetrachloride  
 Concen: 4.887 ug/l  
 RT: 4.99 min Scan# 1186  
 Delta R.T. -0.15 min  
 Lab File: VU027094.D  
 Acq: 24 Sep 2018 09:26

Tgt Ion: 117 Resp: 10211  
 Ion Ratio Lower Upper  
 117 100  
 119 5.6 74.4 111.6#  
 121 0.0 24.2 36.4#





#50

Toluene-d8

Concen: 48.941 ug/l

RT: 7.57 min Scan# 1988

Delta R.T. -0.00 min

Lab File: VU027094.D

Acq: 24 Sep 2018 09:26

Instrument :

MSVOA\_U

ClientSampleId :

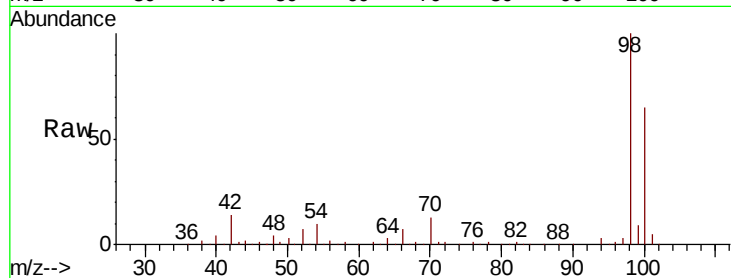
VU0924WBL01

Tgt Ion: 98 Resp: 265990

Ion Ratio Lower Upper

98 100

100 64.2 52.1 78.1



Abundance Ion 98.00 (97.70 to 98.70): VU026969.D (-1974) (-)

Ion 100.00 (99.70 to 100.70): VU026969.D (-1974) (-)

7.57

150000

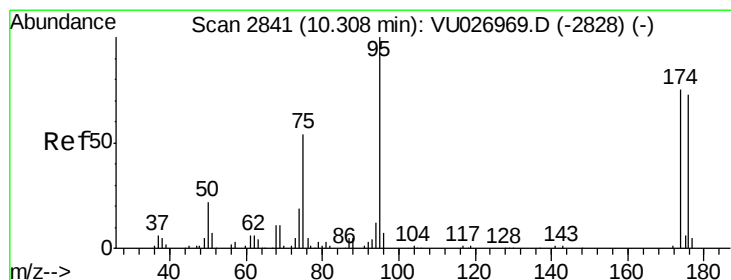
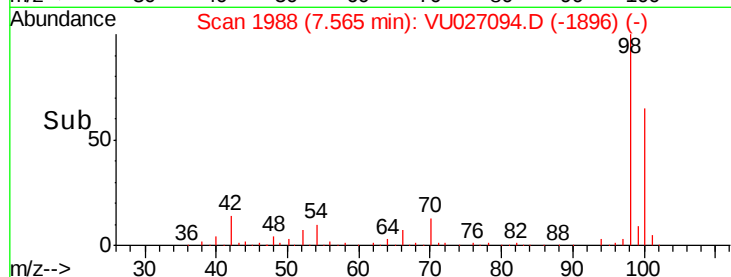
100000

50000

0

7.50 7.60 7.70

Time-->



#62

4-Bromofluorobenzene

Concen: 44.836 ug/l

RT: 10.31 min Scan# 2841

Delta R.T. 0.00 min

Lab File: VU027094.D

Acq: 24 Sep 2018 09:26

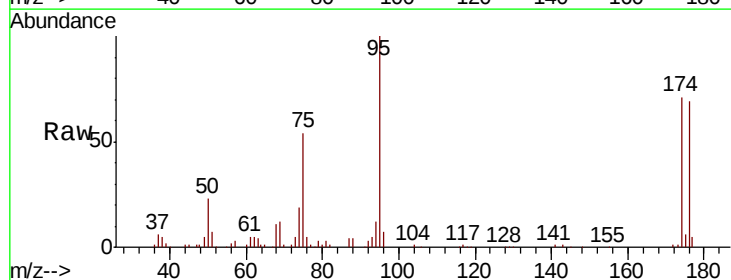
Tgt Ion: 95 Resp: 83615

Ion Ratio Lower Upper

95 100

174 72.7 0.0 150.2

176 69.6 0.0 145.2



Abundance Ion 94.90 (94.60 to 95.60): VU026969.D (-2828) (-)

Ion 173.80 (173.50 to 174.50): VU026969.D (-2828) (-)

Ion 175.80 (175.50 to 176.50): VU026969.D (-2828) (-)

10.31

60000

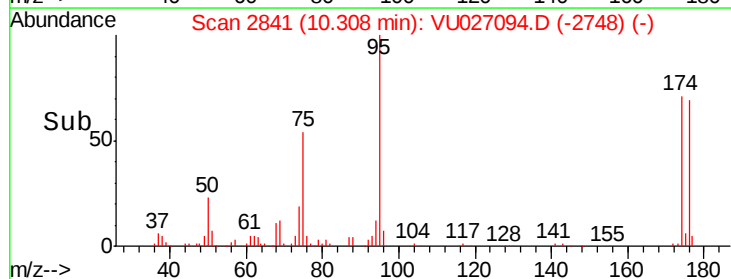
40000

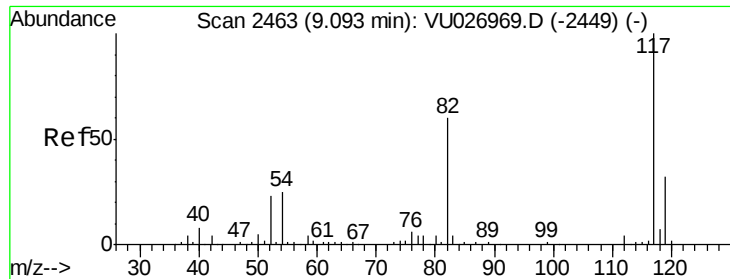
20000

0

10.30 10.40

Time-->

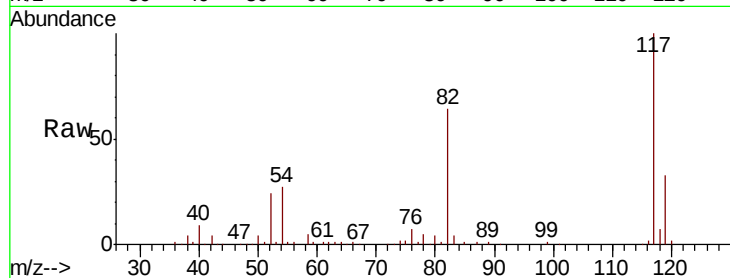




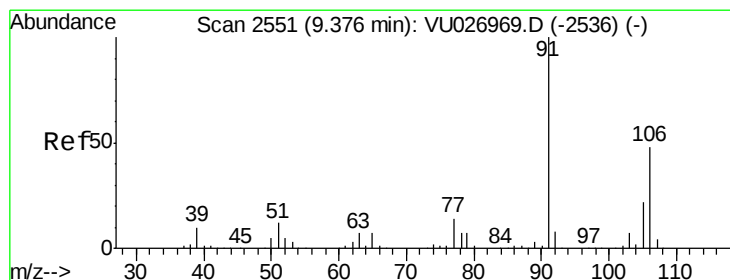
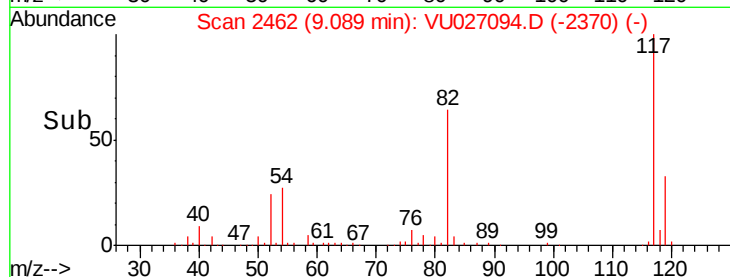
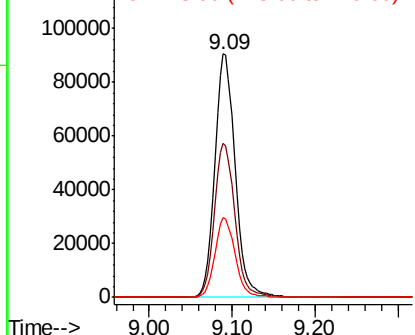
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 9.09 min Scan# 2462  
Delta R.T. -0.00 min  
Lab File: VU027094.D  
Acq: 24 Sep 2018 09:26

Instrument :  
MSVOA\_U  
ClientSampleId :  
VU0924WBL01

Tgt Ion:117 Resp: 154643  
Ion Ratio Lower Upper  
117 100  
82 63.5 48.0 72.0  
119 32.6 25.8 38.8

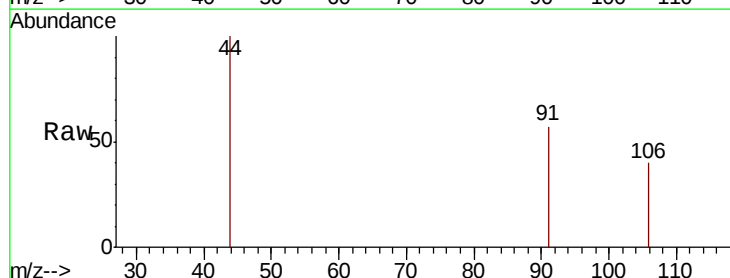


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): VU0  
Ion 118.90 (118.60 to 119.60): V

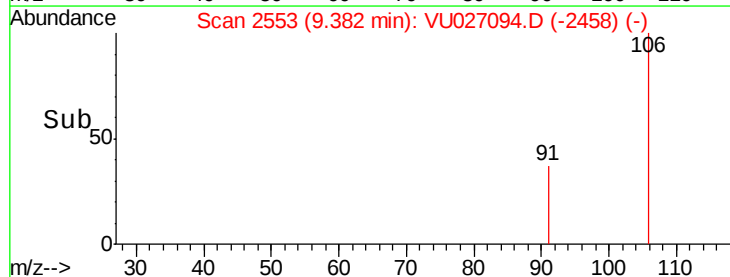
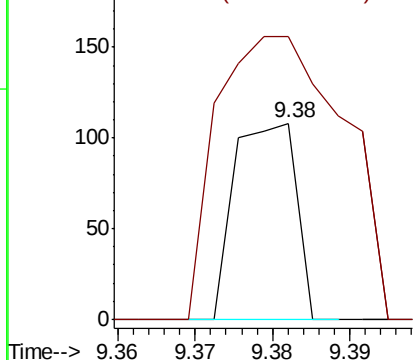


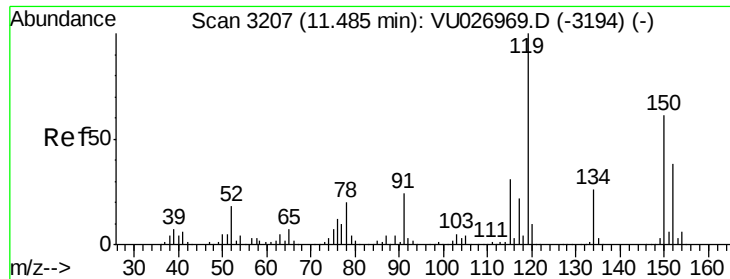
#68  
m/p-Xylenes  
Concen: 1.522 ug/l  
RT: 9.38 min Scan# 2553  
Delta R.T. 0.01 min  
Lab File: VU027094.D  
Acq: 24 Sep 2018 09:26

Tgt Ion:106 Resp: 60  
Ion Ratio Lower Upper  
106 100  
91 295.0 166.5 249.7#



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: 11.48 min Scan# 3207

Delta R.T. 0.00 min

Lab File: VU027094.D

Acq: 24 Sep 2018 09:26

Instrument :

MSVOA\_U

ClientSampleId :

VU0924WBL01

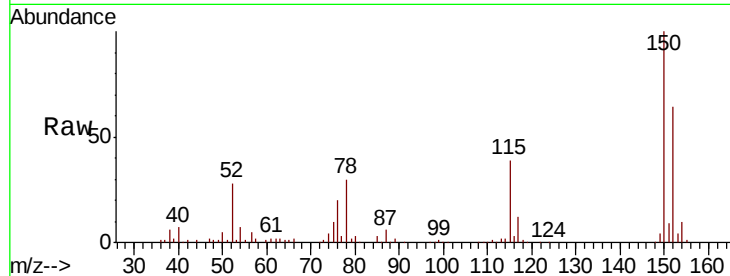
Tgt Ion:152 Resp: 68328

Ion Ratio Lower Upper

152 100

115 60.4 44.9 134.5

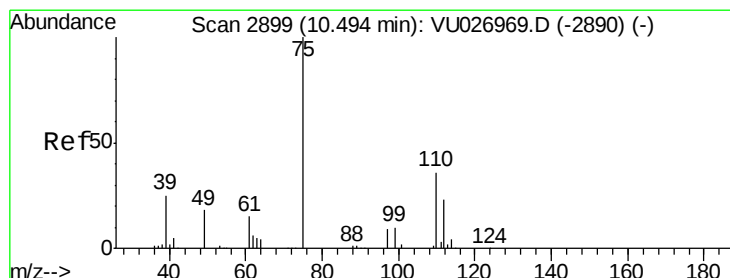
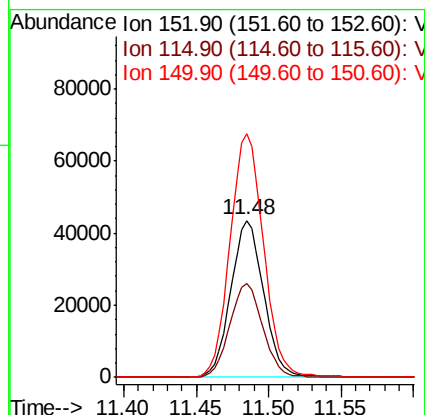
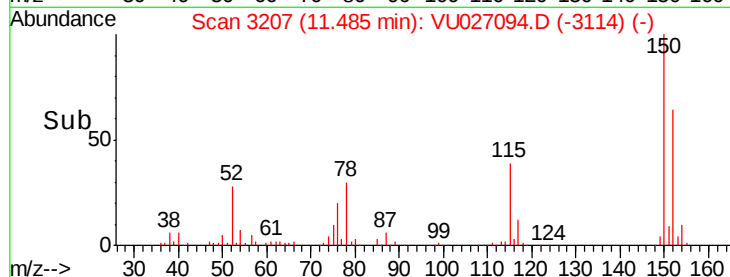
150 159.1 0.0 355.8



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: 22.082 ug/l

RT: 10.31 min Scan# 2841

Delta R.T. -0.19 min

Lab File: VU027094.D

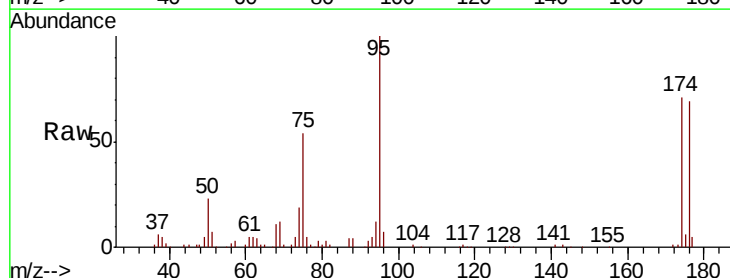
Acq: 24 Sep 2018 09:26

Tgt Ion: 75 Resp: 45837

Ion Ratio Lower Upper

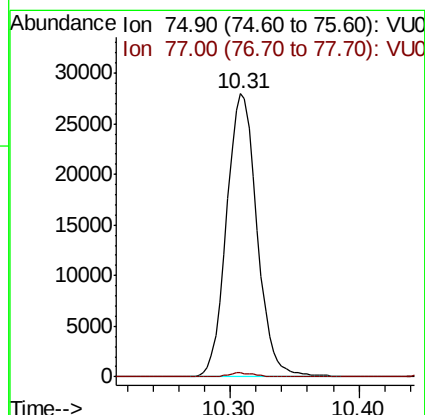
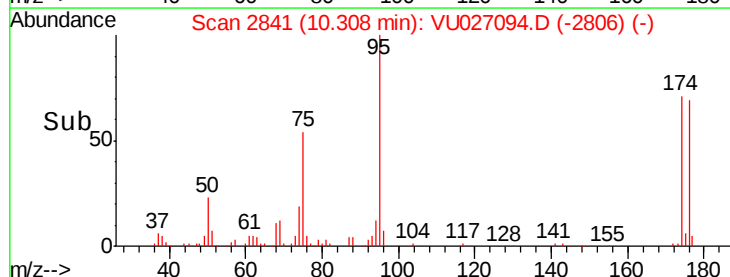
75 100

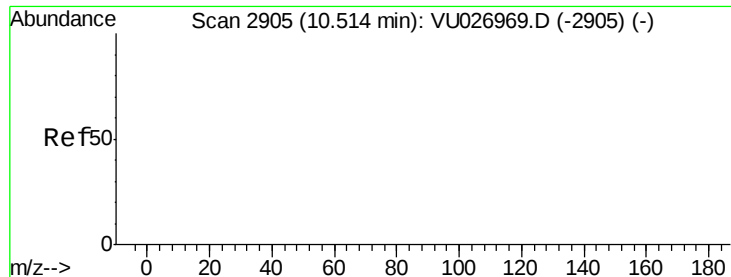
77 1.2 20.9 62.8#



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: 70.666 ug/l

RT: 10.31 min Scan# 2841

Delta R.T. -0.21 min

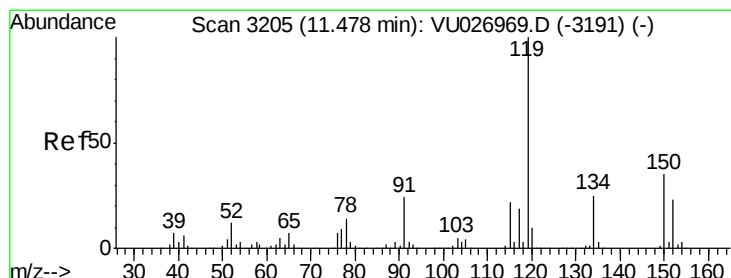
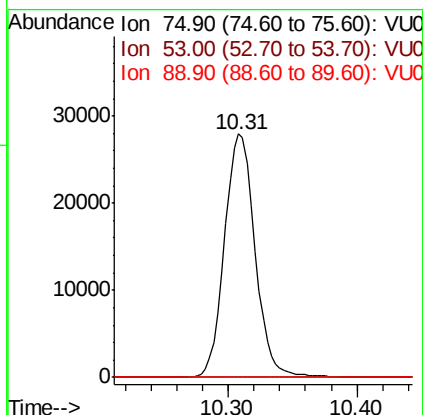
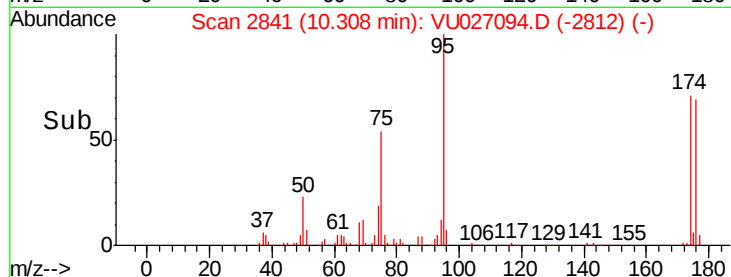
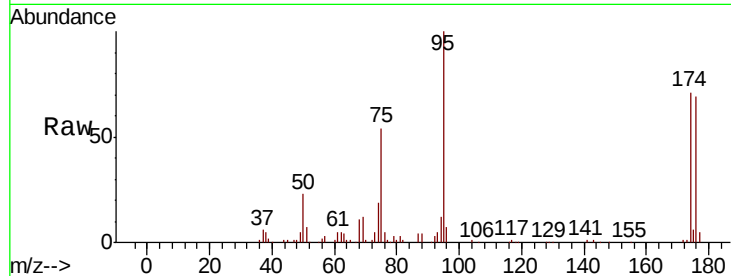
Lab File: VU027094.D

Acq: 24 Sep 2018 09:26

Instrument :  
MSVOA\_U  
ClientSampleId :  
VU0924WBL01

Tgt Ion: 75 Resp: 45837

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 75  | 100   |       |       |
| 53  | 0.0   | 0.0   | 0.0   |
| 89  | 0.1   | 0.0   | 0.0#  |



#86

p-Isopropyltoluene

Concen: 0.962 ug/l

RT: 11.48 min Scan# 3205

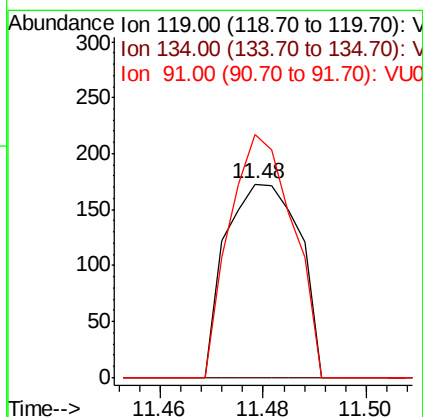
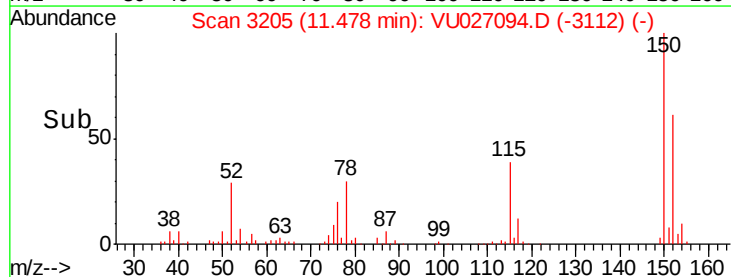
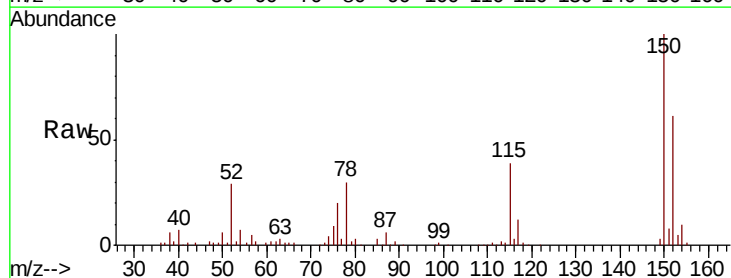
Delta R.T. 0.00 min

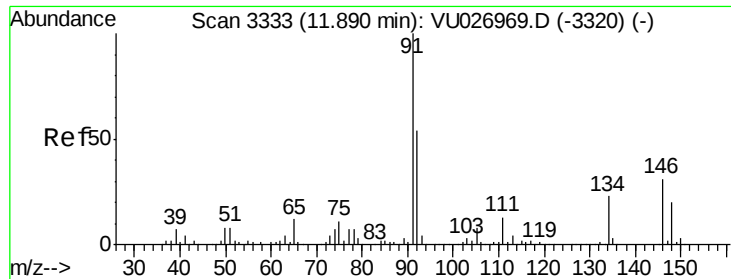
Lab File: VU027094.D

Acq: 24 Sep 2018 09:26

Tgt Ion: 119 Resp: 171

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 119 | 100   |       |       |
| 134 | 0.0   | 12.8  | 38.3# |
| 91  | 107.6 | 12.3  | 36.8# |





#89

n-Butylbenzene

Concen: 2.429 ug/l

RT: 11.90 min Scan# 3335

Delta R.T. 0.01 min

Lab File: VU027094.D

Acq: 24 Sep 2018 09:26

Instrument :

MSVOA\_U

ClientSampleId :

VU0924WBL01

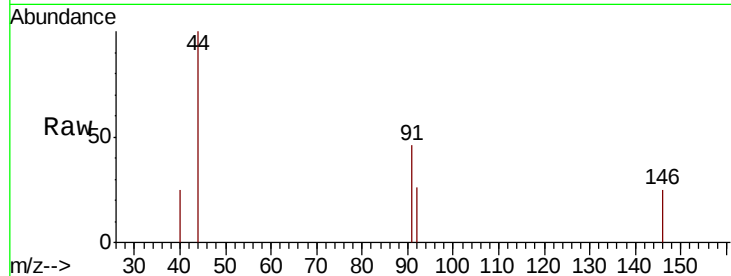
Tgt Ion: 91 Resp: 182

Ion Ratio Lower Upper

91 100

92 56.0 27.1 81.2

134 0.0 11.7 35.0#

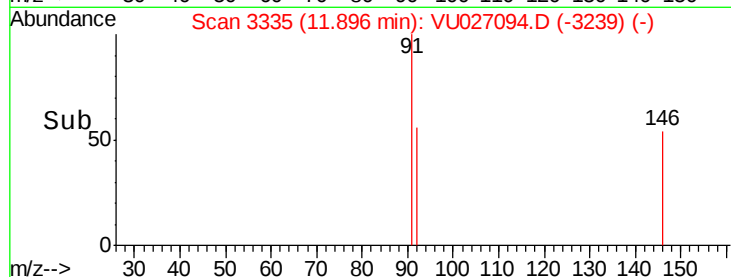


Abundance Ion 91.00 (90.70 to 91.70): VU026969.D (-3320) (-)

Ion 92.00 (91.70 to 92.70): VU026969.D (-3320) (-)

Ion 134.00 (133.70 to 134.70): VU026969.D (-3320) (-)

Time-->

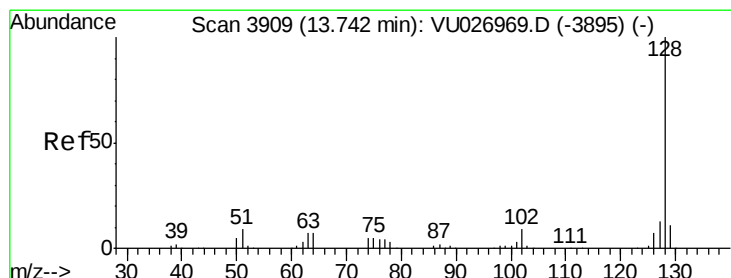


Abundance Ion 91.00 (90.70 to 91.70): VU027094.D (-3239) (-)

Ion 92.00 (91.70 to 92.70): VU027094.D (-3239) (-)

Ion 134.00 (133.70 to 134.70): VU027094.D (-3239) (-)

Time-->



#95

Naphthalene

Concen: 1.850 ug/l

RT: 13.75 min Scan# 3913

Delta R.T. 0.01 min

Lab File: VU027094.D

Acq: 24 Sep 2018 09:26

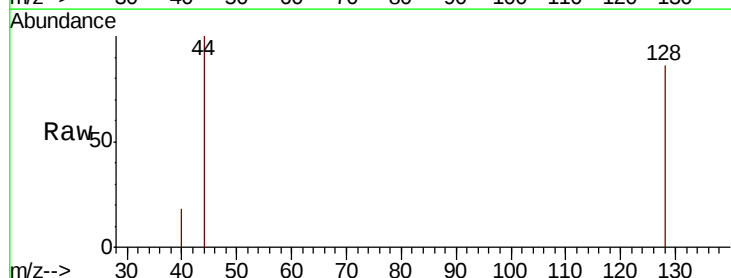
Tgt Ion: 128 Resp: 941

Ion Ratio Lower Upper

128 100

127 0.0 10.6 15.8#

129 0.0 8.6 12.8#

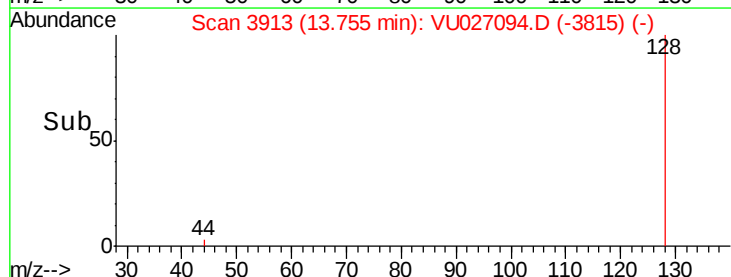


Abundance Ion 128.00 (127.70 to 128.70): VU026969.D (-3895) (-)

Ion 127.00 (126.70 to 127.70): VU026969.D (-3895) (-)

Ion 129.00 (128.70 to 129.70): VU026969.D (-3895) (-)

Time-->



Abundance Ion 128.00 (127.70 to 128.70): VU027094.D (-3815) (-)

Ion 127.00 (126.70 to 127.70): VU027094.D (-3815) (-)

Ion 129.00 (128.70 to 129.70): VU027094.D (-3815) (-)

Time-->