

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_U\DATA\VU100418\  
 Data File : VU027394.D  
 Acq On : 04 Oct 2018 09:37  
 Operator : MD/SY  
 Sample : VU1004MBL01  
 Misc : 5.00g/10mL/100uL/5.0mL/MSVOA\_U/MEOH  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VU1004MBL02

Quant Time: Oct 05 03:11:15 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\82U100118W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Oct 02 02:04:34 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 4.99  | 168  | 96011    | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 5.89  | 114  | 169271   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 9.09  | 117  | 161576   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 11.48 | 152  | 83546    | 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   | 98692    | 61.56 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 123.12% |          |
| 35) Dibromofluoromethane    | 4.89  | 113  | 70132    | 60.46 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 120.92% |          |
| 50) Toluene-d8              | 7.57  | 98   | 262088   | 60.36 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 120.72% |          |
| 62) 4-Bromofluorobenzene    | 10.31 | 95   | 90938    | 56.36 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 112.72% |          |

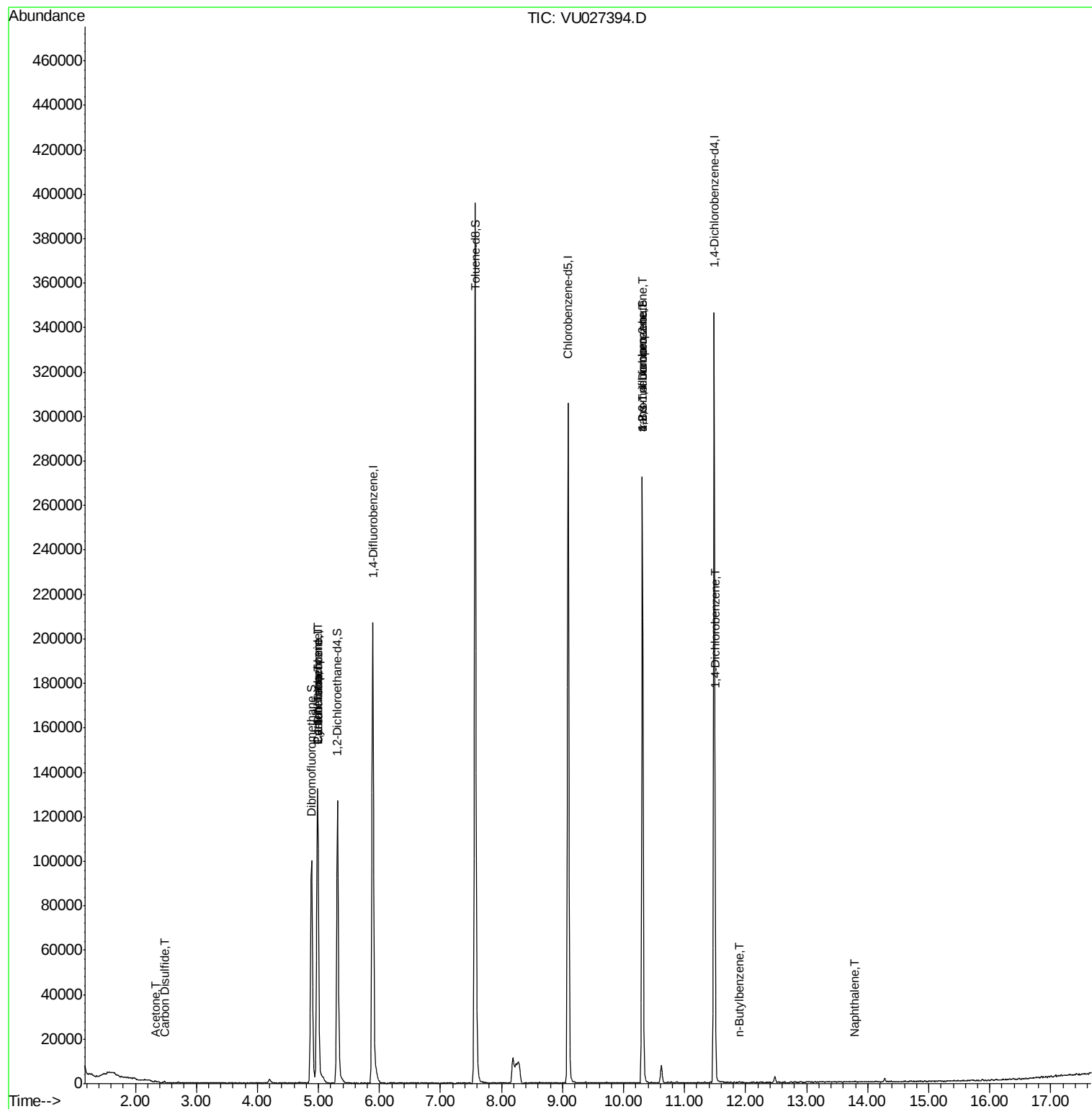
| Target Compounds               | R.T.  | QIon | Response | Conc   | Units  | Qvalue |
|--------------------------------|-------|------|----------|--------|--------|--------|
| 16) Acetone                    | 2.32  | 43   | 561      | 0.592  | ug/l # | 44     |
| 17) Carbon Disulfide           | 2.48  | 76   | 956      | 0.261  | ug/l # | 75     |
| 31) Cyclohexane                | 4.98  | 56   | 2344     | 0.677  | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 4.99  | 75   | 9077     | 4.939  | ug/l # | 49     |
| 38) Carbon Tetrachloride       | 4.99  | 117  | 9767     | 5.883  | ug/l # | 18     |
| 76) 1,2,3-Trichloropropane     | 10.31 | 75   | 48797    | 22.532 | ug/l # | 37     |
| 81) trans-1,4-Dichloro-2-buten | 10.31 | 75   | 48797    | 58.968 | ug/l # | 100    |
| 88) 1,4-Dichlorobenzene        | 11.51 | 146  | 548      | 0.201  | ug/l # | 25     |
| 89) n-Butylbenzene             | 11.89 | 91   | 387      | 2.017  | ug/l # | 33     |
| 95) Naphthalene                | 13.77 | 128  | 307      | 1.707  | ug/l # | 69     |

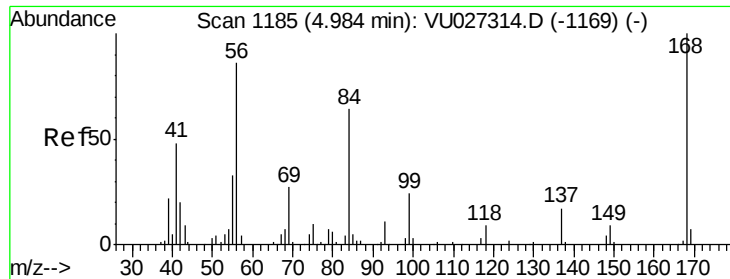
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_U\DATA\VU100418\  
Data File : VU027394.D  
Acq On : 04 Oct 2018 09:37  
Operator : MD/SY  
Sample : VU1004MBL01  
Misc : 5.00g/10mL/100uL/5.0mL/MSVOA\_U/MEOH  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
VU1004MBL02

Quant Time: Oct 05 03:11:15 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\82U100118W.M  
Quant Title : SW846 8260  
QLast Update : Tue Oct 02 02:04:34 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.99 min Scan# 1186

Delta R.T. 0.00 min

Lab File: VU027394.D

Acq: 04 Oct 2018 09:37

Instrument :

MSVOA\_U

ClientSampleId :

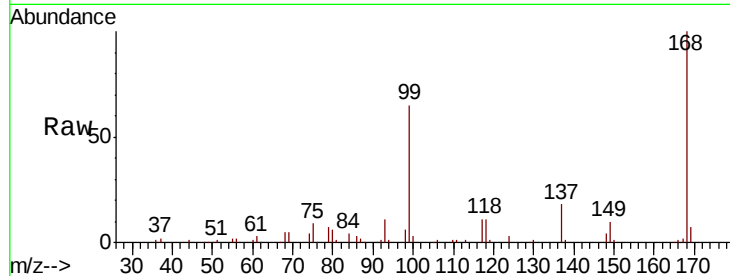
VU1004MBL02

Tgt Ion:168 Resp: 96011

Ion Ratio Lower Upper

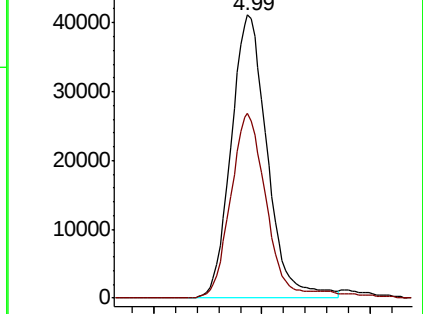
168 100

99 65.1 50.8 76.2

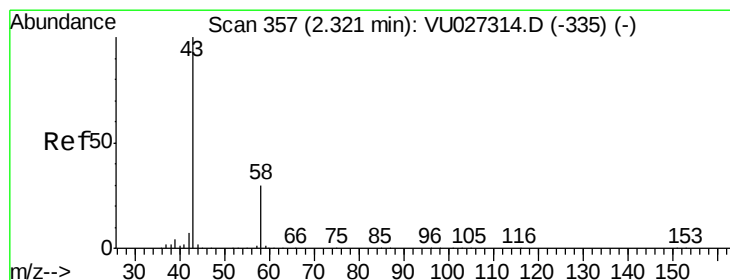
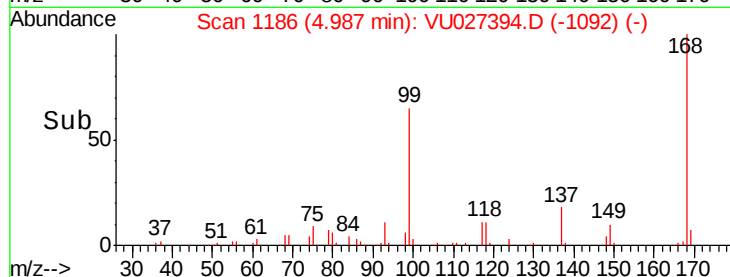


Abundance Ion 167.90 (167.60 to 168.60): VU027314.D (-1169) (-)

Ion 98.90 (98.60 to 99.60): VU027394.D (-1092) (-)



Time-->



#16

Acetone

Concen: 0.592 ug/l

RT: 2.32 min Scan# 358

Delta R.T. 0.00 min

Lab File: VU027394.D

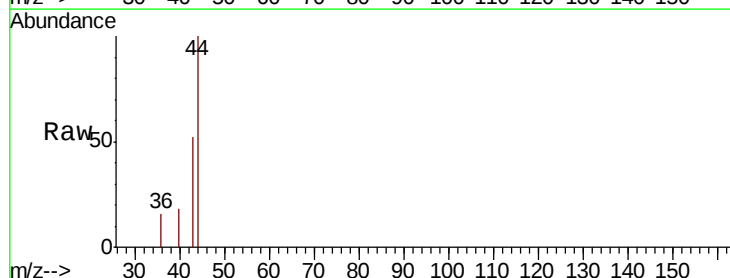
Acq: 04 Oct 2018 09:37

Tgt Ion: 43 Resp: 561

Ion Ratio Lower Upper

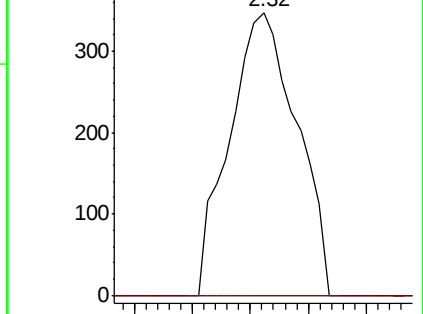
43 100

58 0.0 24.2 36.4#

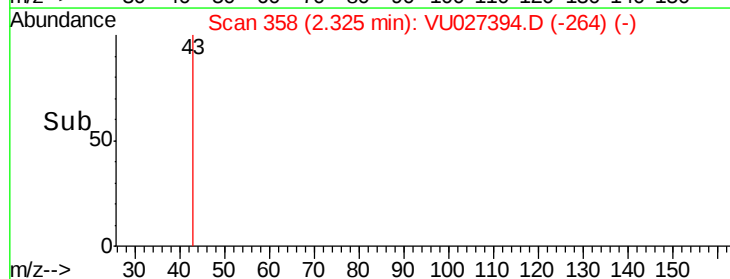


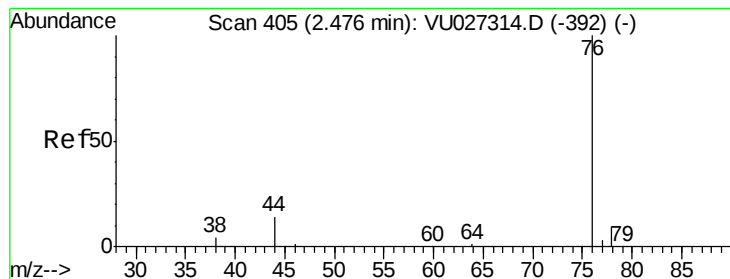
Abundance Ion 43.00 (42.70 to 43.70): VU027314.D (-335) (-)

Ion 58.00 (57.70 to 58.70): VU027394.D (-264) (-)



Time-->





#17

Carbon Disulfide

Concen: 0.261 ug/l

RT: 2.48 min Scan# 406

Delta R.T. 0.00 min

Lab File: VU027394.D

Acq: 04 Oct 2018 09:37

Instrument :

MSVOA\_U

ClientSampleId :

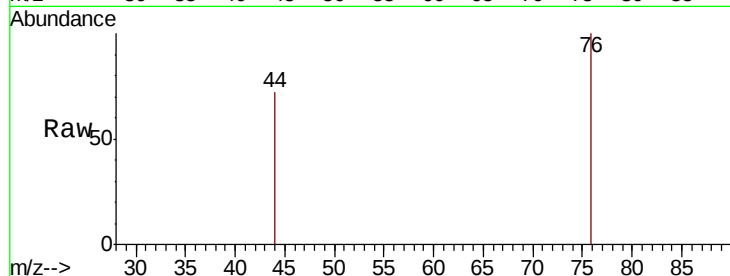
VU1004MBL02

Tgt Ion: 76 Resp: 956

Ion Ratio Lower Upper

76 100

78 0.0 7.3 10.9#



Abundance Ion 75.90 (75.60 to 76.60): VU0

Ion 77.90 (77.60 to 78.60): VU0

2.48

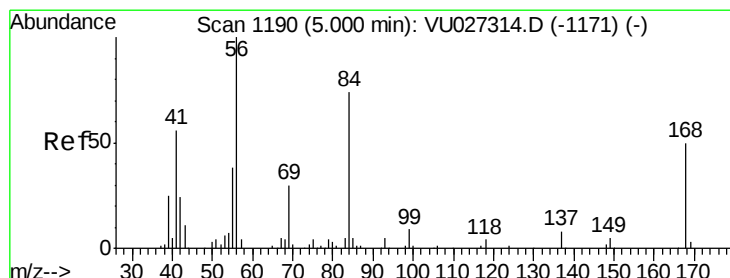
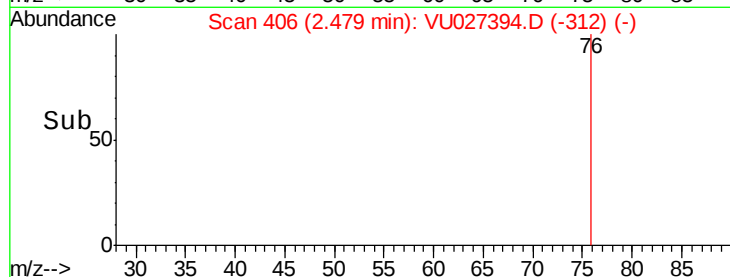
600

400

200

0

Time-->



#31

Cyclohexane

Concen: 0.677 ug/l

RT: 4.98 min Scan# 1184

Delta R.T. -0.02 min

Lab File: VU027394.D

Acq: 04 Oct 2018 09:37

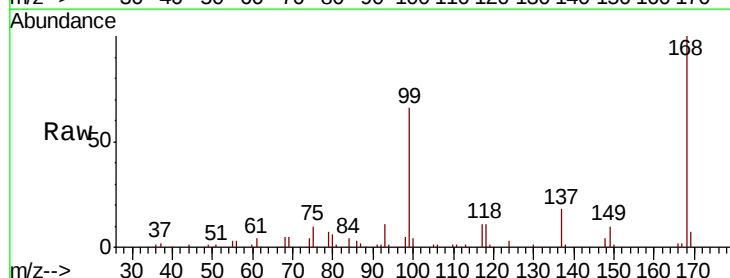
Tgt Ion: 56 Resp: 2344

Ion Ratio Lower Upper

56 100

69 177.5 24.1 36.1#

84 140.8 59.1 88.7#



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

2500

2000

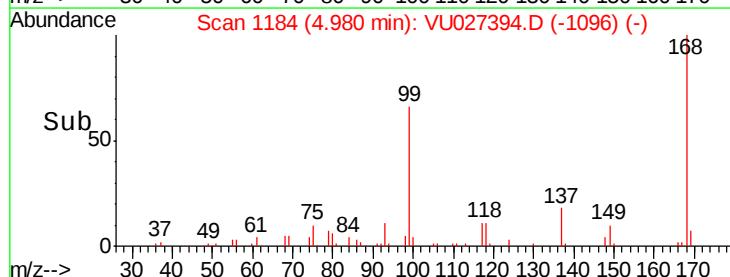
1500

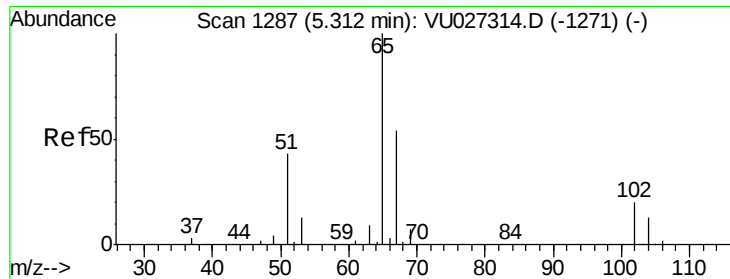
1000

500

0

Time-->

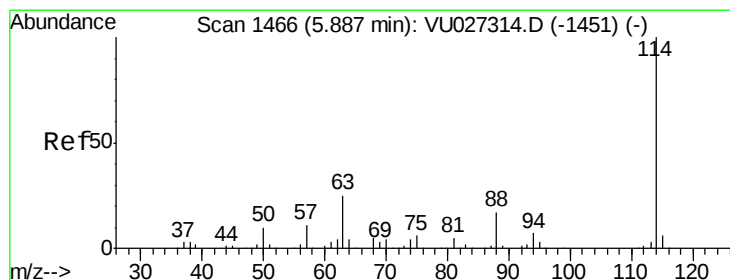
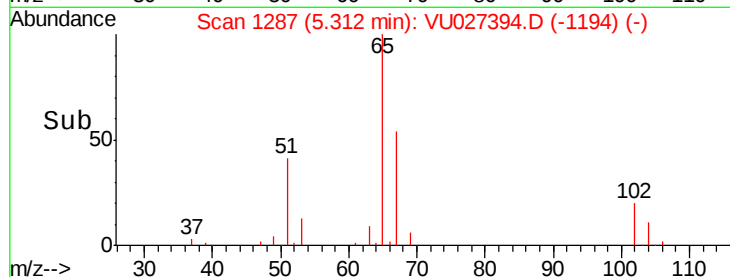
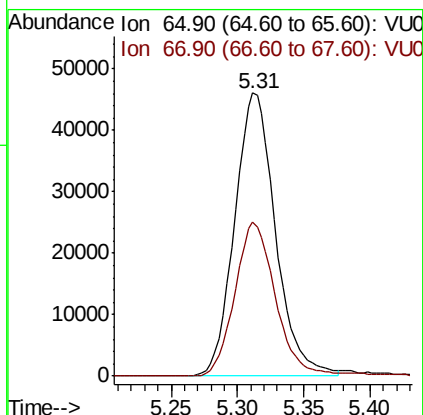
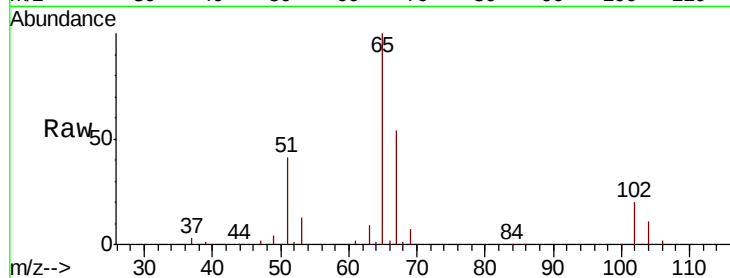




#33  
 1,2-Dichloroethane-d4  
 Concen: 61.559 ug/l  
 RT: 5.31 min Scan# 1287  
 Delta R.T. 0.00 min  
 Lab File: VU027394.D  
 Acq: 04 Oct 2018 09:37

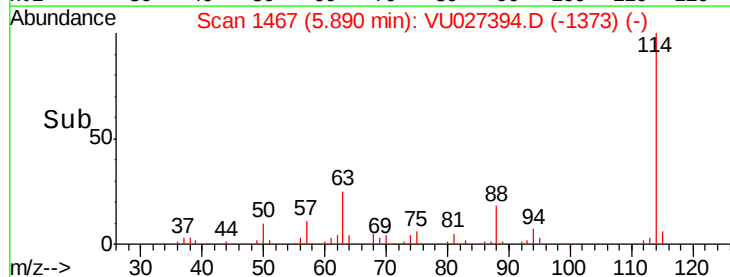
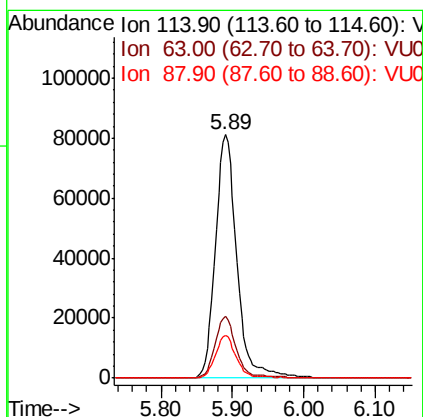
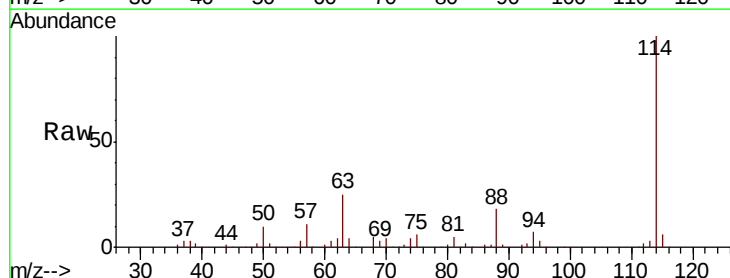
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VU1004MBL02

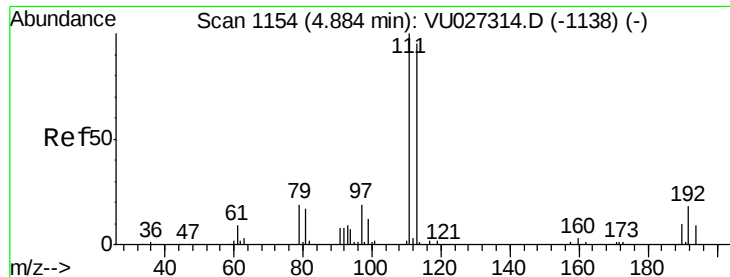
Tgt Ion: 65 Resp: 98692  
 Ion Ratio Lower Upper  
 65 100  
 67 53.6 0.0 107.8



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 5.89 min Scan# 1467  
 Delta R.T. 0.00 min  
 Lab File: VU027394.D  
 Acq: 04 Oct 2018 09:37

Tgt Ion: 114 Resp: 169271  
 Ion Ratio Lower Upper  
 114 100  
 63 25.3 0.0 50.2  
 88 17.6 0.0 33.8

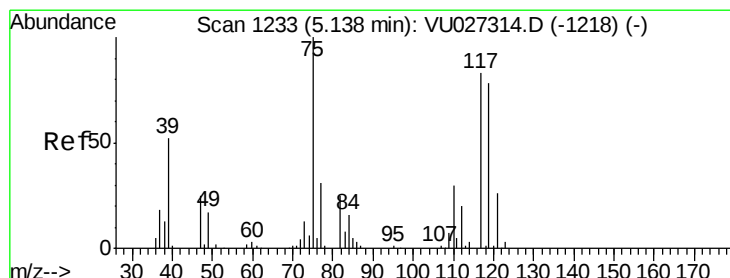
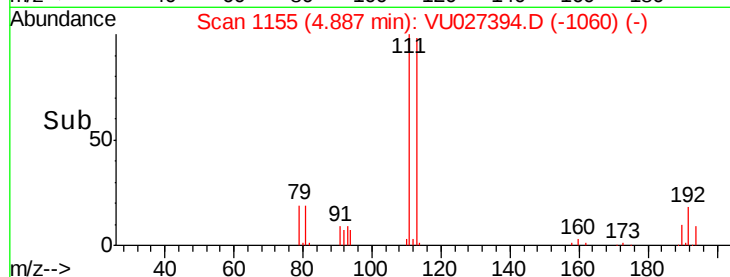
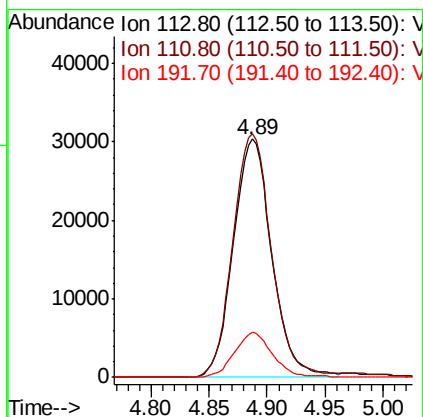
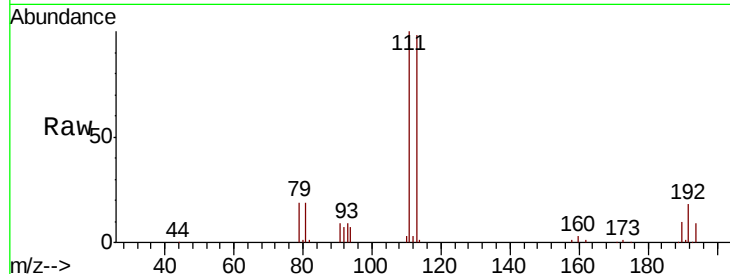




#35  
 Dibromofluoromethane  
 Concen: 60.455 ug/l  
 RT: 4.89 min Scan# 1155  
 Delta R.T. 0.00 min  
 Lab File: VU027394.D  
 Acq: 04 Oct 2018 09:37

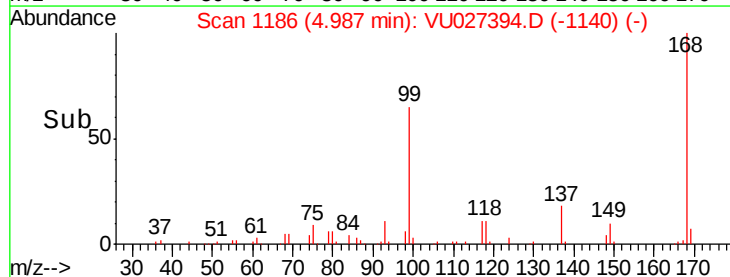
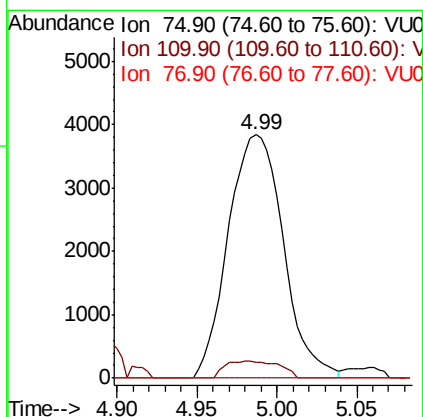
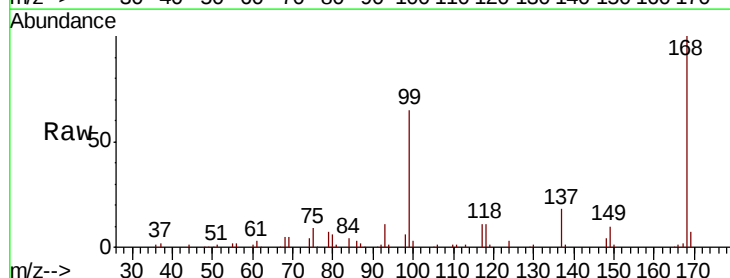
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VU1004MBL02

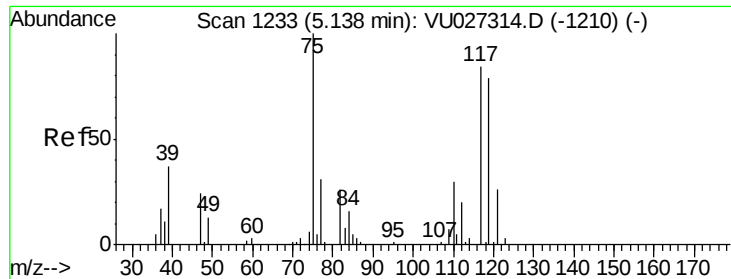
Tgt Ion:113 Resp: 70132  
 Ion Ratio Lower Upper  
 113 100  
 111 103.4 83.1 124.7  
 192 18.7 15.4 23.0



#36  
 1,1-Dichloropropene  
 Concen: 4.939 ug/l  
 RT: 4.99 min Scan# 1186  
 Delta R.T. -0.15 min  
 Lab File: VU027394.D  
 Acq: 04 Oct 2018 09:37

Tgt Ion: 75 Resp: 9077  
 Ion Ratio Lower Upper  
 75 100  
 110 6.9 15.5 46.5#  
 77 0.0 25.4 38.0#

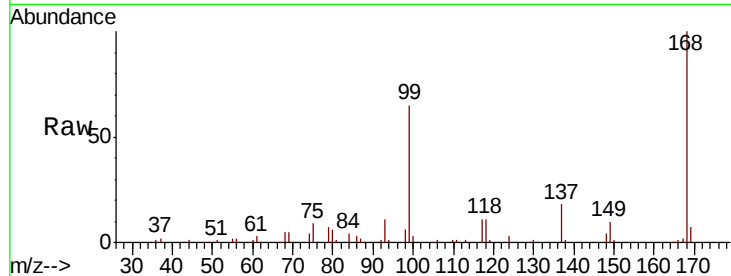




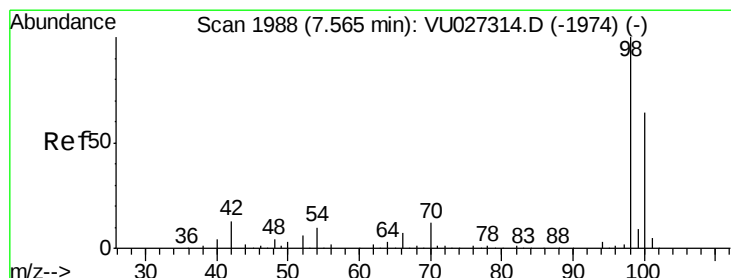
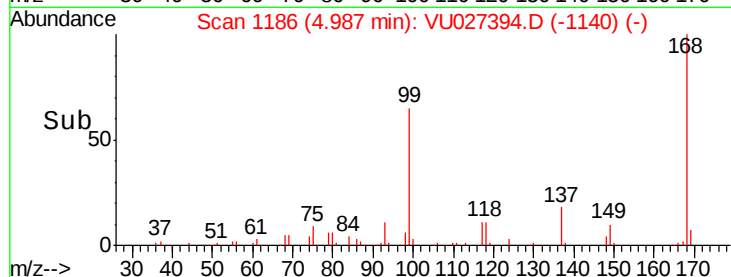
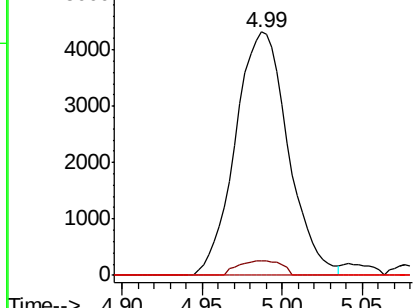
#38  
Carbon Tetrachloride  
Concen: 5.883 ug/l  
RT: 4.99 min Scan# 1186  
Delta R.T. -0.15 min  
Lab File: VU027394.D  
Acq: 04 Oct 2018 09:37

Instrument :  
MSVOA\_U  
ClientSampleId :  
VU1004MBL02

Tgt Ion:117 Resp: 9767  
Ion Ratio Lower Upper  
117 100  
119 6.1 74.5 111.7#  
121 0.0 24.6 37.0#

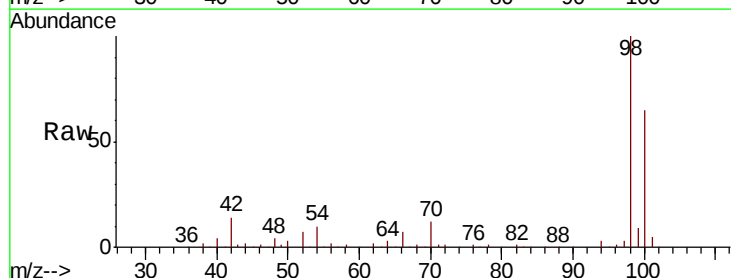


Abundance Ion 116.80 (116.50 to 117.50): V  
Ion 118.80 (118.50 to 119.50): V  
Ion 120.80 (120.50 to 121.50): V

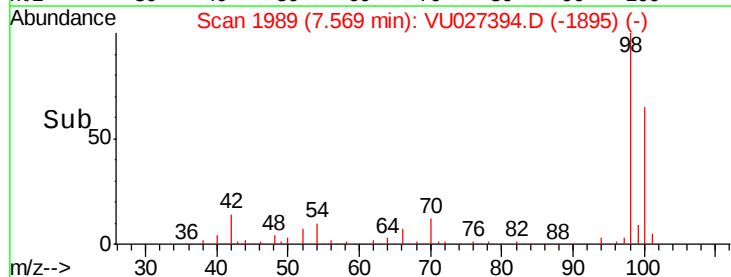
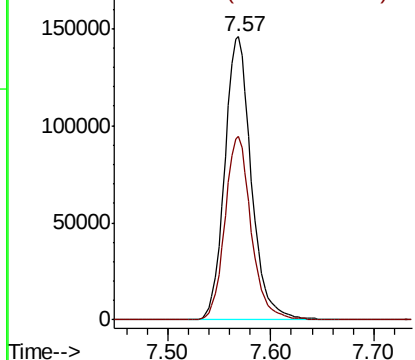


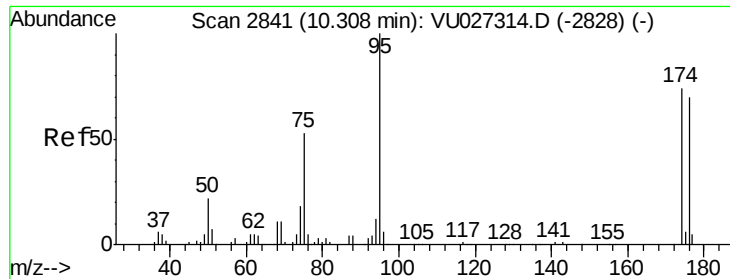
#50  
Toluene-d8  
Concen: 60.364 ug/l  
RT: 7.57 min Scan# 1989  
Delta R.T. 0.00 min  
Lab File: VU027394.D  
Acq: 04 Oct 2018 09:37

Tgt Ion: 98 Resp: 262088  
Ion Ratio Lower Upper  
98 100  
100 64.2 52.1 78.1



Abundance Ion 98.00 (97.70 to 98.70): VU0  
Ion 100.00 (99.70 to 100.70): VU

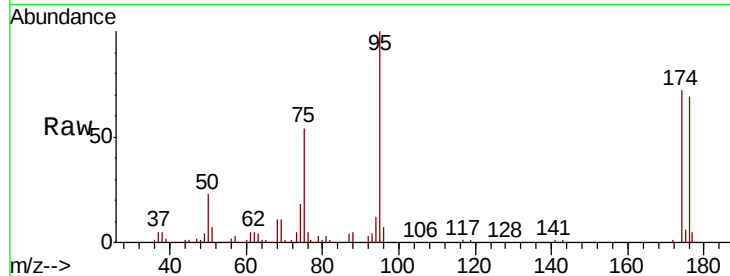




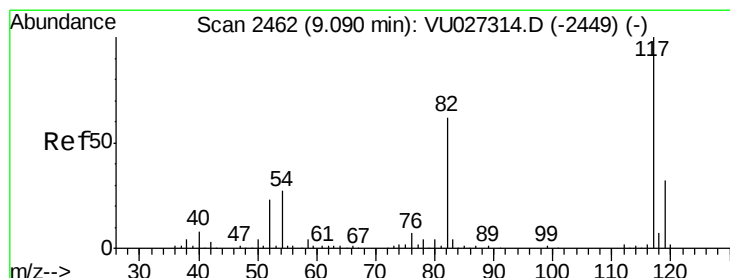
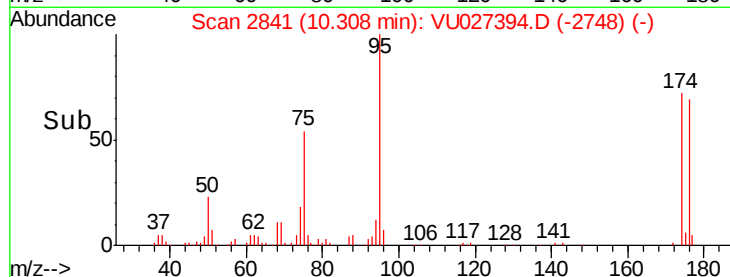
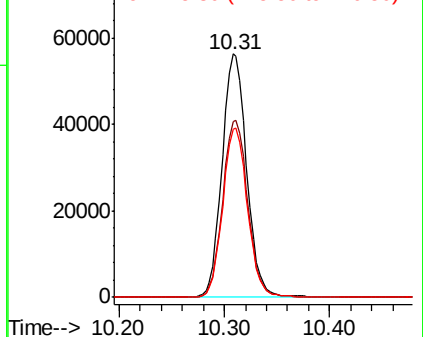
#62  
 4-Bromofluorobenzene  
 Concen: 56.358 ug/l  
 RT: 10.31 min Scan# 2841  
 Delta R.T. 0.00 min  
 Lab File: VU027394.D  
 Acq: 04 Oct 2018 09:37

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VU1004MBL02

Tgt Ion: 95 Resp: 90938  
 Ion Ratio Lower Upper  
 95 100  
 174 74.0 0.0 147.8  
 176 70.1 0.0 140.8

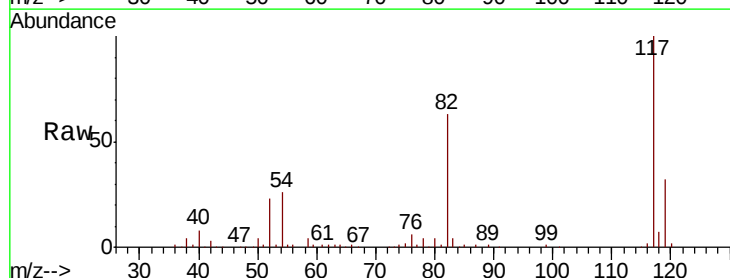


Abundance Ion 94.90 (94.60 to 95.60): VU027314.D (-2828) (-)  
 Ion 173.80 (173.50 to 174.50): VU027314.D (-2828) (-)  
 Ion 175.80 (175.50 to 176.50): VU027314.D (-2828) (-)

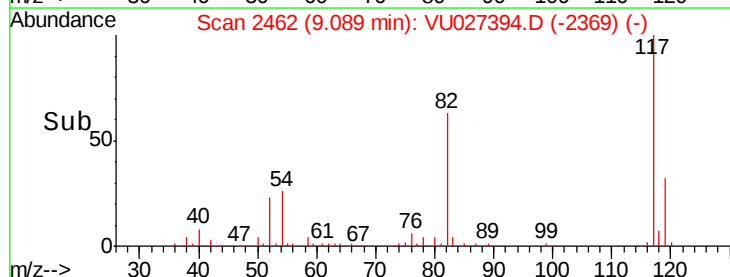
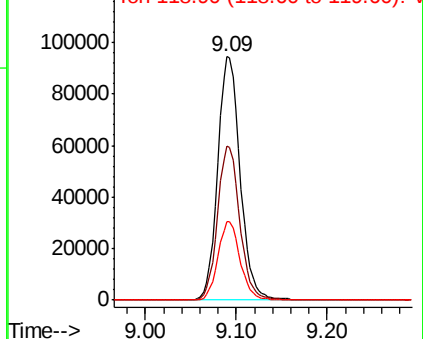


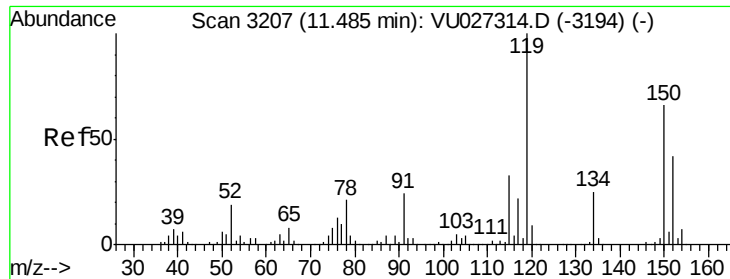
#63  
 Chlorobenzene-d5  
 Concen: 50.000 ug/l  
 RT: 9.09 min Scan# 2462  
 Delta R.T. -0.00 min  
 Lab File: VU027394.D  
 Acq: 04 Oct 2018 09:37

Tgt Ion: 117 Resp: 161576  
 Ion Ratio Lower Upper  
 117 100  
 82 63.2 49.2 73.8  
 119 32.0 25.7 38.5



Abundance Ion 116.90 (116.60 to 117.60): VU027314.D (-2449) (-)  
 Ion 82.00 (81.70 to 82.70): VU027314.D (-2449) (-)  
 Ion 118.90 (118.60 to 119.60): VU027314.D (-2449) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 11.48 min Scan# 3207

Delta R.T. -0.00 min

Lab File: VU027394.D

Acq: 04 Oct 2018 09:37

Instrument :

MSVOA\_U

ClientSampleId :

VU1004MBL02

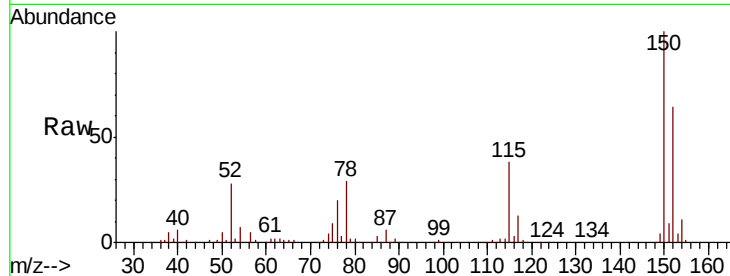
Tgt Ion: 152 Resp: 83546

Ion Ratio Lower Upper

152 100

115 60.3 43.4 130.2

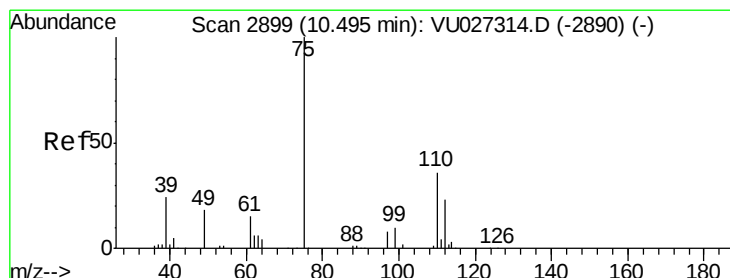
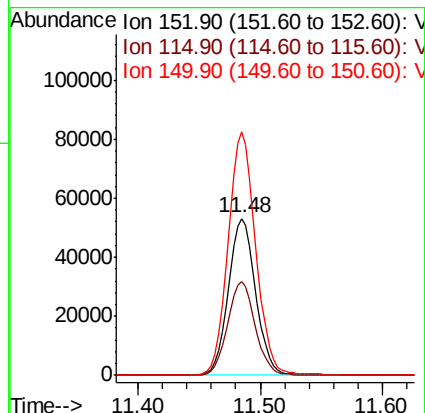
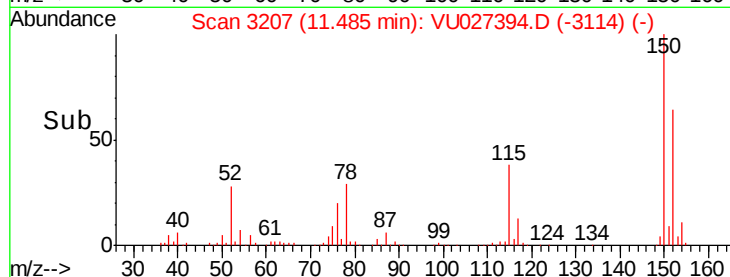
150 156.2 0.0 349.2



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 22.532 ug/l

RT: 10.31 min Scan# 2841

Delta R.T. -0.19 min

Lab File: VU027394.D

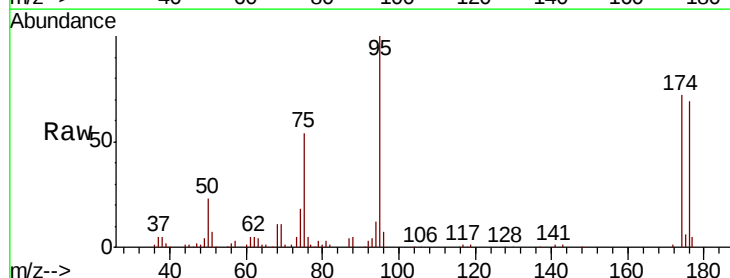
Acq: 04 Oct 2018 09:37

Tgt Ion: 75 Resp: 48797

Ion Ratio Lower Upper

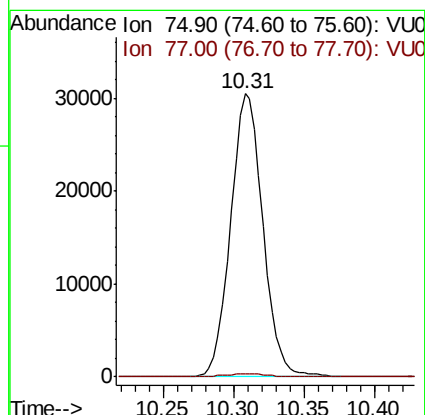
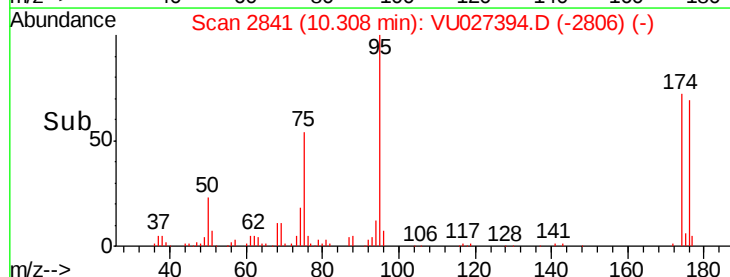
75 100

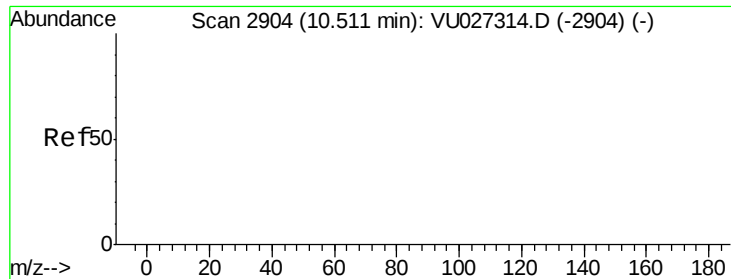
77 1.3 20.3 60.9#



Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 77.00 (76.70 to 77.70): VU0

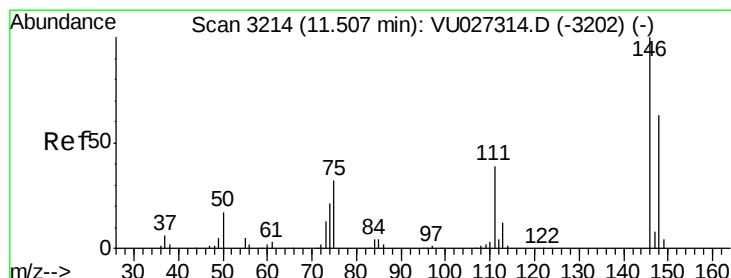
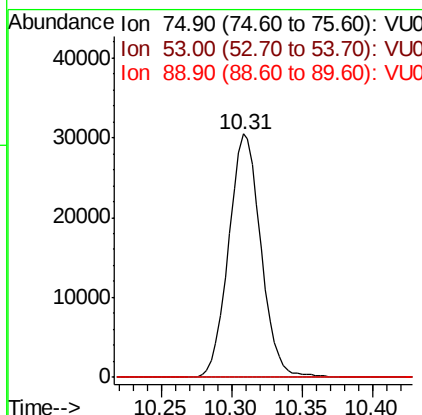
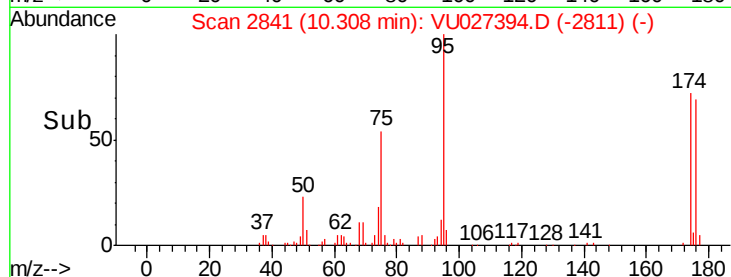
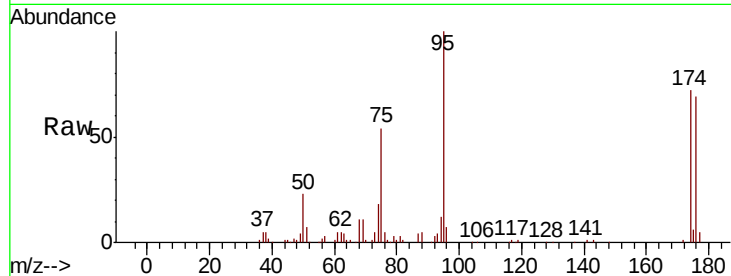




#81  
trans-1,4-Dichloro-2-butene  
Concen: 58.968 ug/l  
RT: 10.31 min Scan# 2841  
Delta R.T. -0.20 min  
Lab File: VU027394.D  
Acq: 04 Oct 2018 09:37

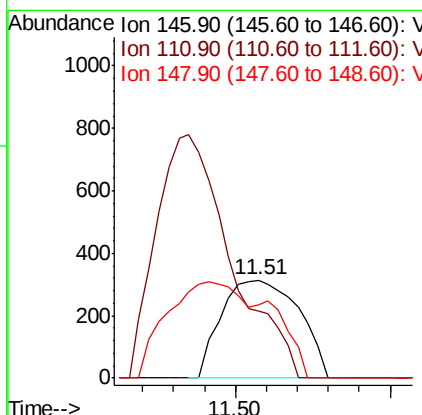
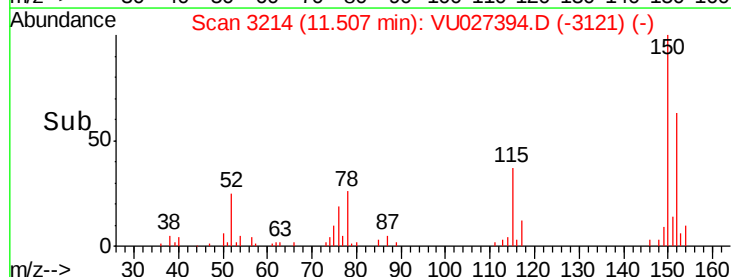
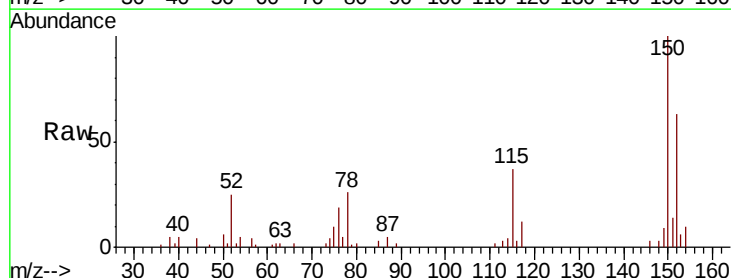
Instrument :  
MSVOA\_U  
ClientSampleId :  
VU1004MBL02

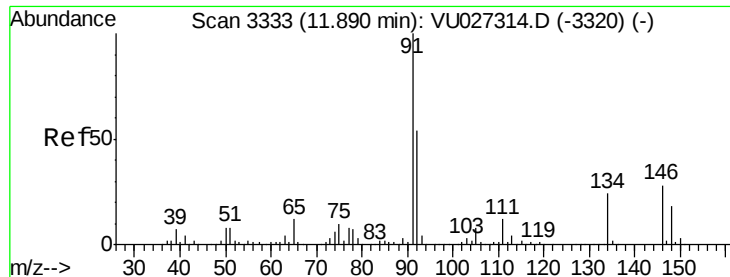
Tgt Ion: 75 Resp: 48797  
Ion Ratio Lower Upper  
75 100  
53 0.0 0.0 0.0  
89 0.0 0.0 0.0



#88  
1,4-Dichlorobenzene  
Concen: 0.201 ug/l  
RT: 11.51 min Scan# 3214  
Delta R.T. -0.00 min  
Lab File: VU027394.D  
Acq: 04 Oct 2018 09:37

Tgt Ion: 146 Resp: 548  
Ion Ratio Lower Upper  
146 100  
111 0.0 20.4 61.2#  
148 0.0 31.9 95.5#





#89

n-Butylbenzene

Concen: 2.017 ug/l

RT: 11.89 min Scan# 3334

Delta R.T. 0.00 min

Lab File: VU027394.D

Acq: 04 Oct 2018 09:37

Instrument :

MSVOA\_U

ClientSampleId :

VU1004MBL02

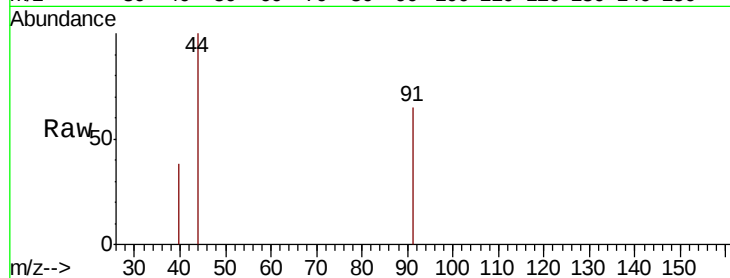
Tgt Ion: 91 Resp: 387

Ion Ratio Lower Upper

91 100

92 0.0 27.0 81.0#

134 0.0 11.7 35.1#

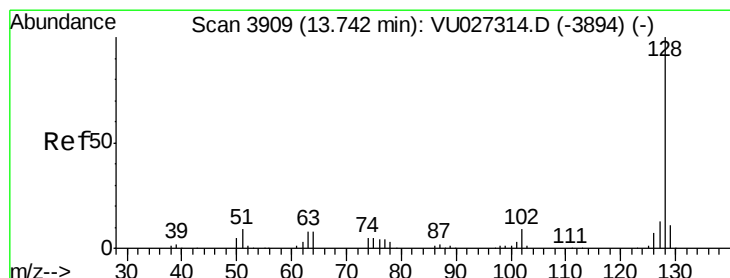
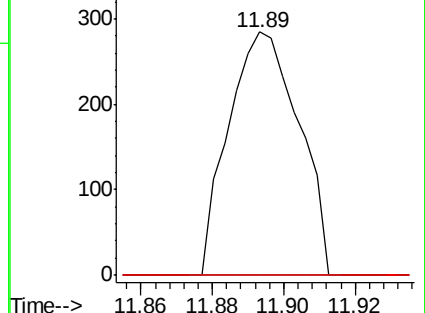
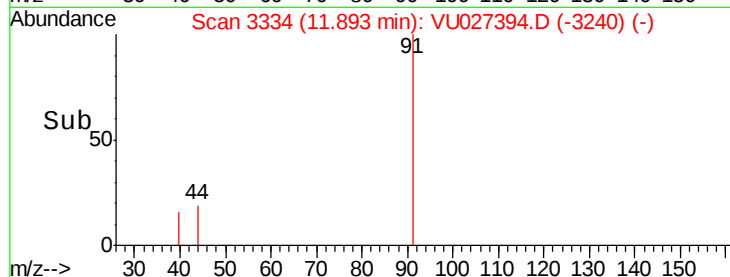


Abundance Ion 91.00 (90.70 to 91.70): VU027314.D (-3320) (-)

Ion 92.00 (91.70 to 92.70): VU027314.D (-3320) (-)

Ion 134.00 (133.70 to 134.70): VU027314.D (-3320) (-)

Time-->



#95

Naphthalene

Concen: 1.707 ug/l

RT: 13.77 min Scan# 3918

Delta R.T. 0.03 min

Lab File: VU027394.D

Acq: 04 Oct 2018 09:37

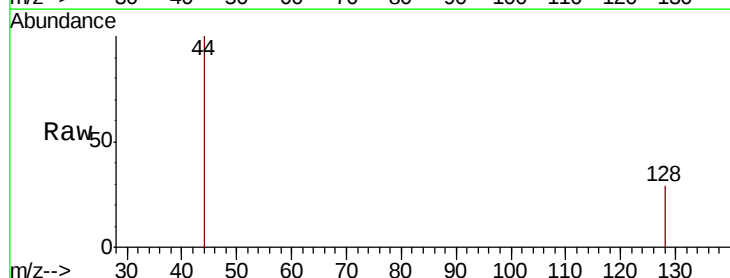
Tgt Ion: 128 Resp: 307

Ion Ratio Lower Upper

128 100

127 0.0 10.5 15.7#

129 0.0 8.6 12.8#



Abundance Ion 128.00 (127.70 to 128.70): VU027314.D (-3894) (-)

Ion 127.00 (126.70 to 127.70): VU027314.D (-3894) (-)

Ion 129.00 (128.70 to 129.70): VU027314.D (-3894) (-)

Time-->

