

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_D\DATA\VD110118\  
 Data File : VD060272.D  
 Acq On : 1 Nov 2018 19:54  
 Operator : VA/AP  
 Sample : J5192-07  
 Misc : 4.99g/5ml/MSVOA\_D/SOIL  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 AU-05-103118-B

Quant Time: Nov 02 02:43:09 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D100118S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Oct 02 06:56:35 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 6.40  | 168  | 1199861  | 50.00 | ug/l  | 0.02     |
| 34) 1,4-Difluorobenzene    | 7.44  | 114  | 1649782  | 50.00 | ug/l  | 0.02     |
| 63) Chlorobenzene-d5       | 11.29 | 117  | 1227169  | 50.00 | ug/l  | 0.02     |
| 72) 1,4-Dichlorobenzene-d4 | 13.37 | 152  | 477131   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|-------|--------|----------|
| 33) 1,2-Dichloroethane-d4   | 6.78  | 65   | 429568   | 47.23 | ug/l   | 0.02     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 94.46% |          |
| 35) Dibromofluoromethane    | 6.32  | 113  | 528470   | 42.18 | ug/l   | 0.02     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 84.36% |          |
| 50) Toluene-d8              | 9.45  | 98   | 1283334  | 35.92 | ug/l   | 0.02     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 71.84% |          |
| 62) 4-Bromofluorobenzene    | 12.43 | 95   | 423679   | 31.67 | ug/l   | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 63.34% |          |

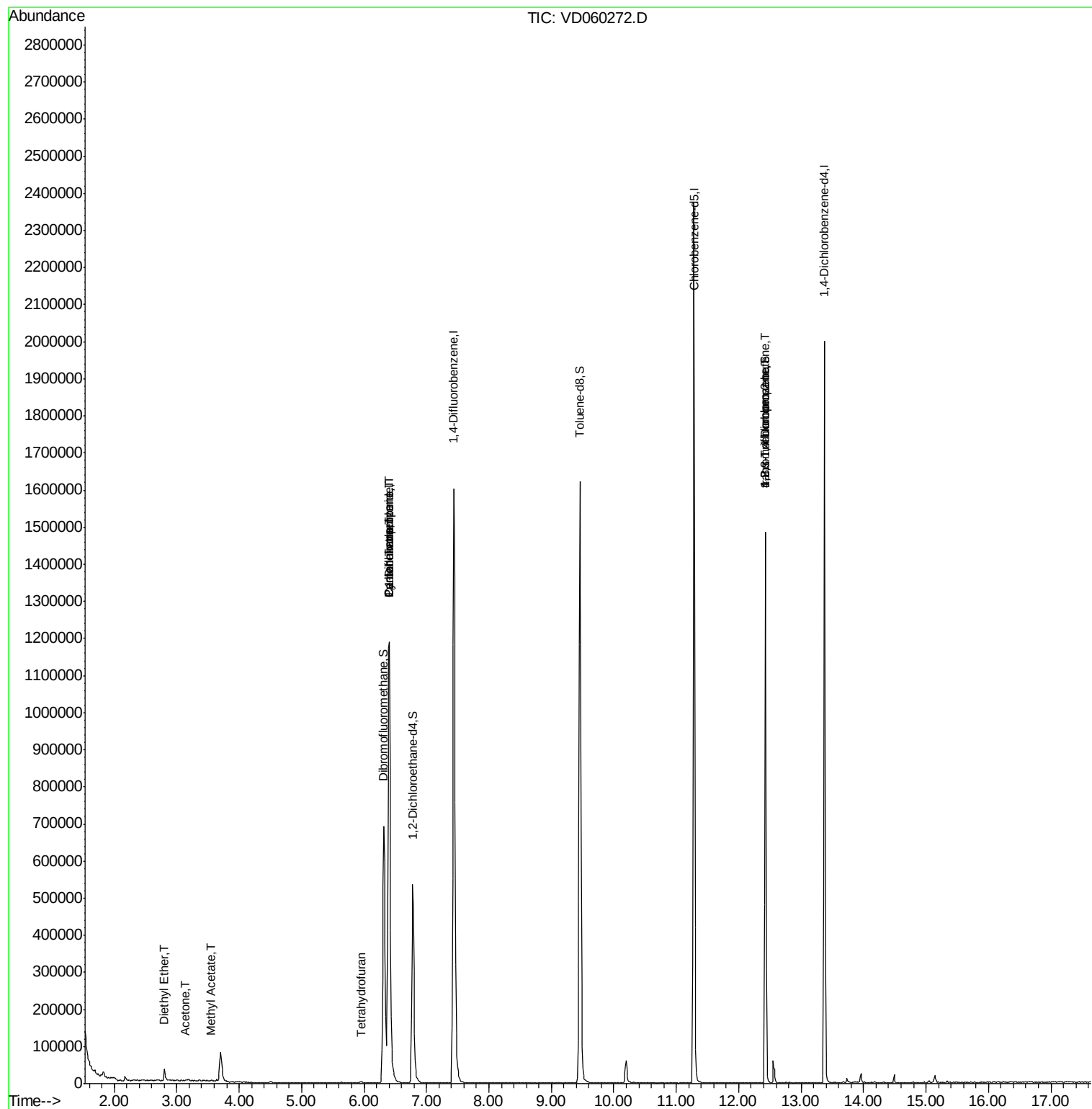
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 8) Diethyl Ether               | 2.81  | 74   | 4162     | 2.030     | ug/l   | 89     |
| 16) Acetone                    | 3.14  | 43   | 3454     | 2.093     | ug/l # | 54     |
| 18) Methyl Acetate             | 3.54  | 43   | 3694     | 1.041     | ug/l # | 63     |
| 20) Methylene Chloride         | 3.70  | 84   | 48464    | Below Cal |        | 96     |
| 29) Tetrahydrofuran            | 5.94  | 42   | 3256     | 1.360     | ug/l # | 63     |
| 31) Cyclohexane                | 6.39  | 56   | 20577    | 1.044     | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 6.39  | 75   | 82384    | 5.226     | ug/l # | 47     |
| 38) Carbon Tetrachloride       | 6.40  | 117  | 93625    | 6.543     | ug/l # | 15     |
| 76) 1,2,3-Trichloropropane     | 12.43 | 75   | 172308   | 25.077    | ug/l # | 45     |
| 81) trans-1,4-Dichloro-2-buten | 12.43 | 75   | 174609   | 90.436    | ug/l # | 13     |

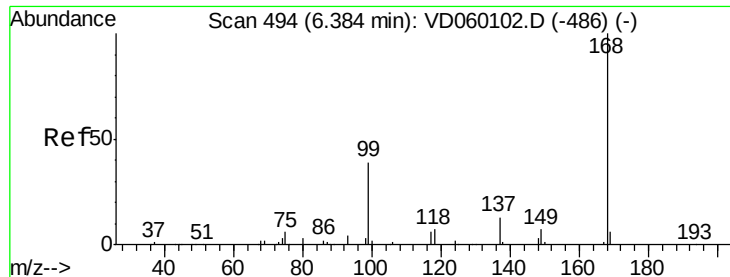
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ALS Vial : 15 Sample Multiplier: 1

Instrument :  
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Quant Time: Nov 02 02:43:09 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_D\METHOD\82D100118S.M  
Quant Title : SW846 8260  
QLast Update : Tue Oct 02 06:56:35 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 6.40 min Scan# 496

Delta R.T. 0.02 min

Lab File: VD060272.D

Acq: 1 Nov 2018 19:54

Instrument :

MSVOA\_D

ClientSampleId :

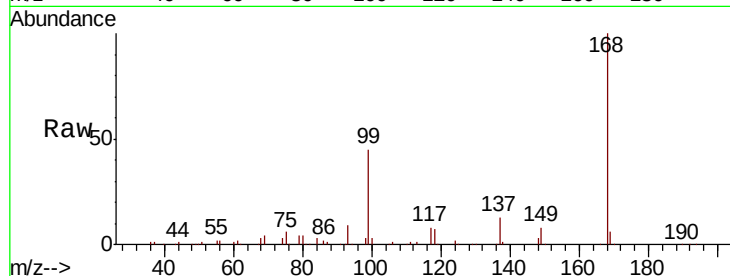
AU-05-103118-B

Tgt Ion:168 Resp: 1199861

Ion Ratio Lower Upper

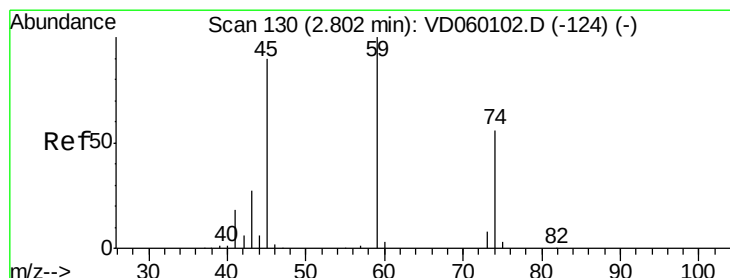
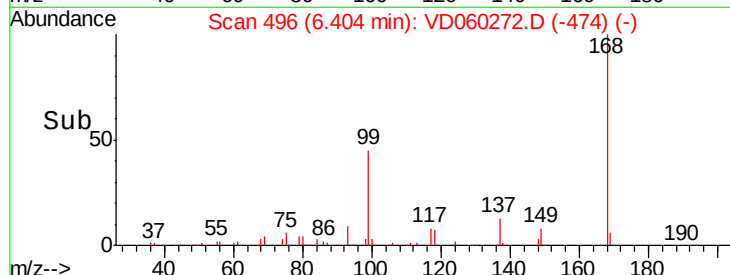
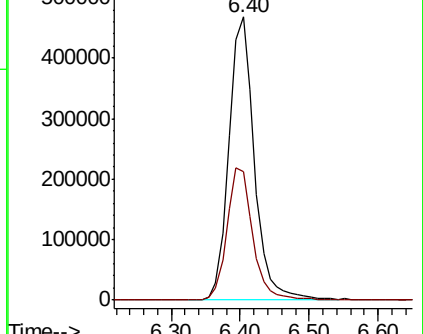
168 100

99 45.2 35.4 53.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#8

Diethyl Ether

Concen: 2.030 ug/l

RT: 2.81 min Scan# 131

Delta R.T. 0.01 min

Lab File: VD060272.D

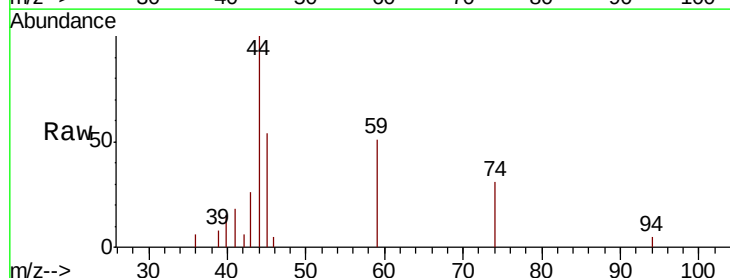
Acq: 1 Nov 2018 19:54

Tgt Ion: 74 Resp: 4162

Ion Ratio Lower Upper

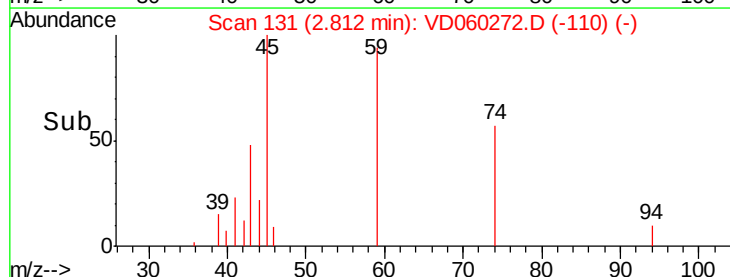
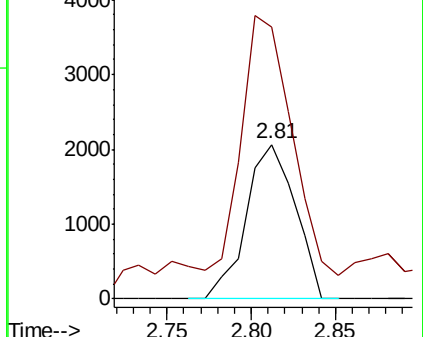
74 100

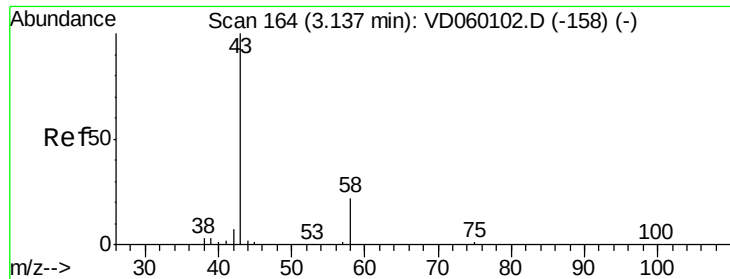
45 175.5 80.3 241.0



Abundance Ion 74.00 (73.70 to 74.70): VDC

Ion 45.05 (44.75 to 45.75): VDC





#16

Acetone

Concen: 2.093 ug/l

RT: 3.14 min Scan# 164

Delta R.T. 0.00 min

Lab File: VD060272.D

Acq: 1 Nov 2018 19:54

Instrument :

MSVOA\_D

ClientSampleId :

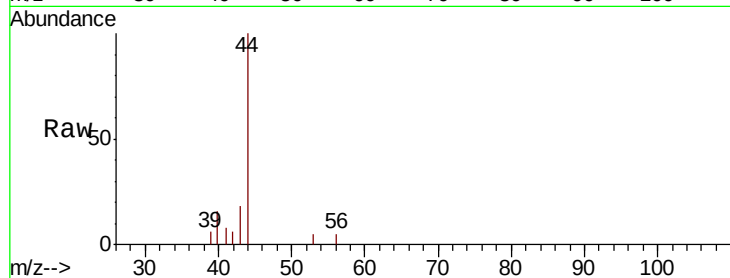
AU-05-103118-B

Tgt Ion: 43 Resp: 3454

Ion Ratio Lower Upper

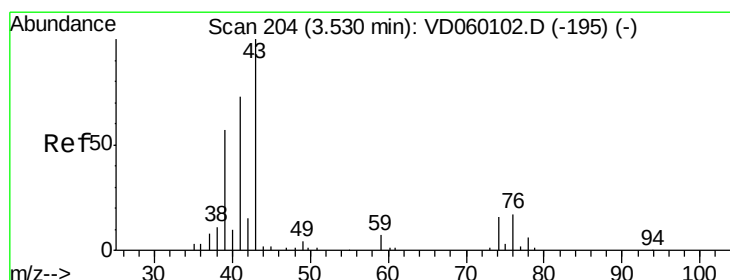
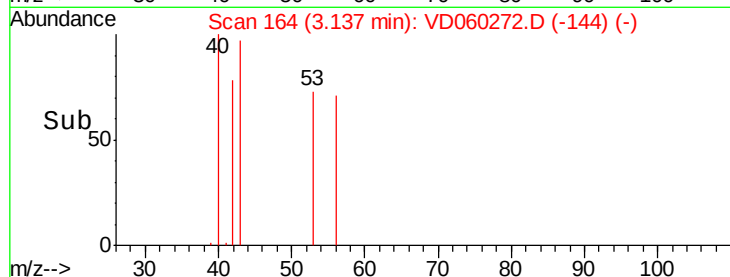
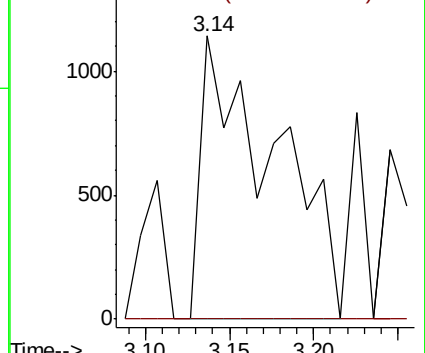
43 100

58 0.0 17.7 26.5#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#18

Methyl Acetate

Concen: 1.041 ug/l

RT: 3.54 min Scan# 205

Delta R.T. 0.01 min

Lab File: VD060272.D

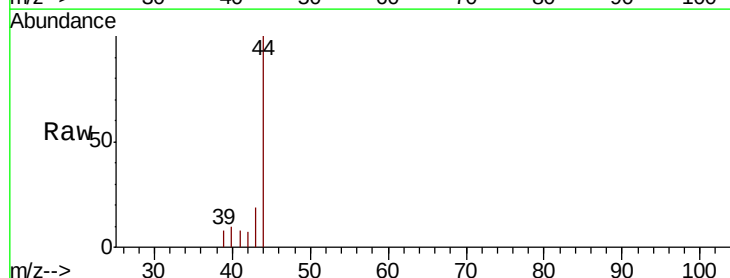
Acq: 1 Nov 2018 19:54

Tgt Ion: 43 Resp: 3694

Ion Ratio Lower Upper

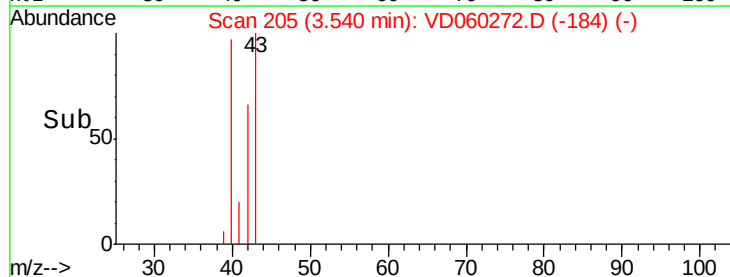
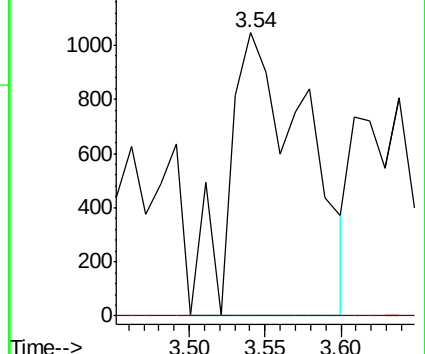
43 100

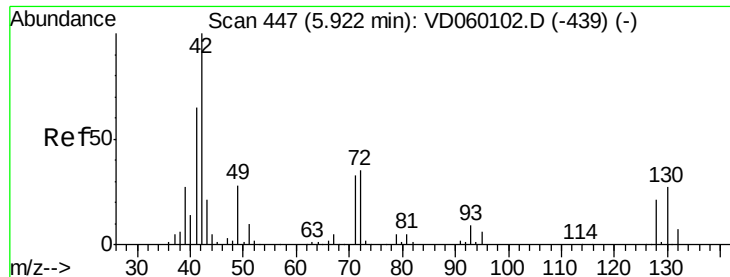
74 0.0 12.6 19.0#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 74.00 (73.70 to 74.70): VDC





#29

Tetrahydrofuran

Concen: 1.360 ug/l

RT: 5.94 min Scan# 449

Delta R.T. 0.02 min

Lab File: VD060272.D

Acq: 1 Nov 2018 19:54

Instrument :

MSVOA\_D

ClientSampleId :

AU-05-103118-B

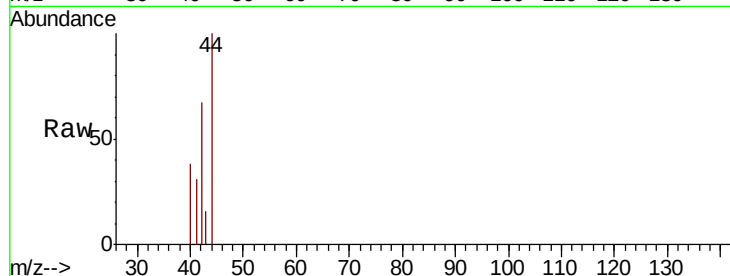
Tgt Ion: 42 Resp: 3256

Ion Ratio Lower Upper

42 100

72 5.7 26.9 40.3#

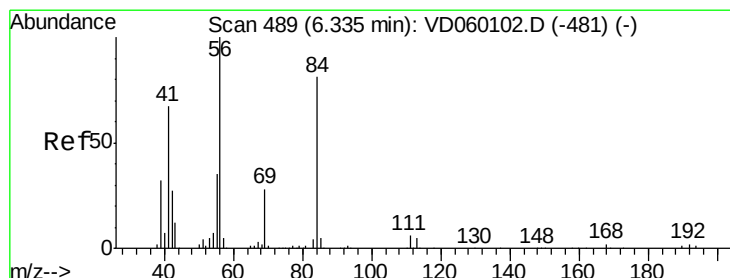
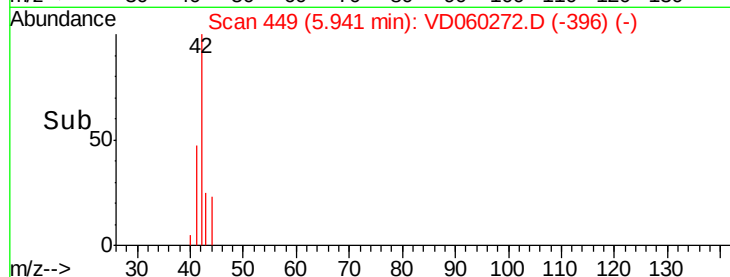
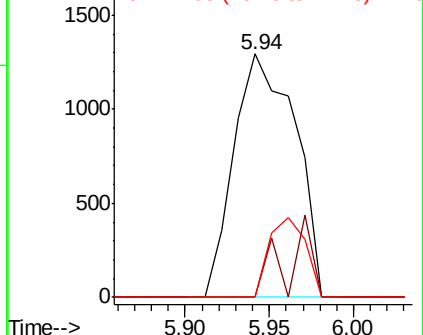
71 19.4 26.7 40.1#



Abundance Ion 42.00 (41.70 to 42.70): VDC

Ion 72.00 (71.70 to 72.70): VDC

Ion 71.00 (70.70 to 71.70): VDC



#31

Cyclohexane

Concen: 1.044 ug/l

RT: 6.39 min Scan# 495

Delta R.T. 0.06 min

Lab File: VD060272.D

Acq: 1 Nov 2018 19:54

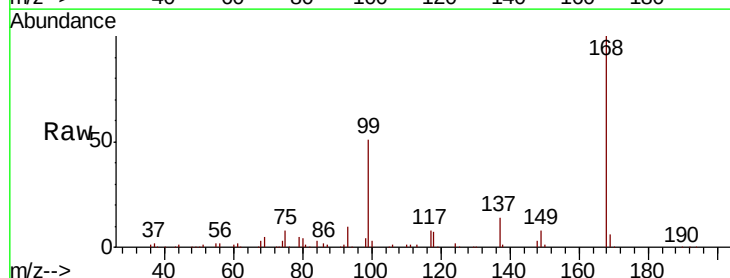
Tgt Ion: 56 Resp: 20577

Ion Ratio Lower Upper

56 100

69 208.4 22.8 34.2#

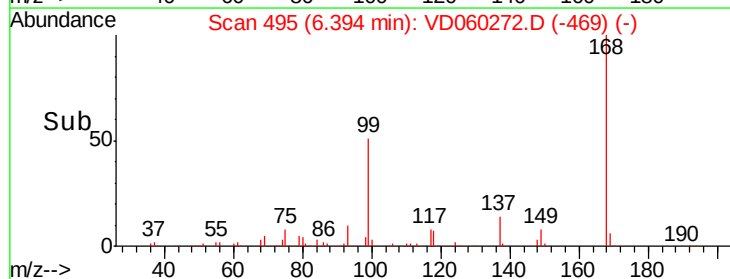
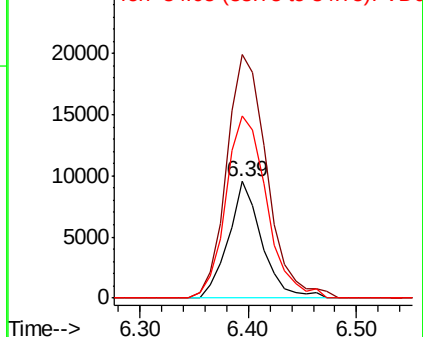
84 156.0 64.9 97.3#

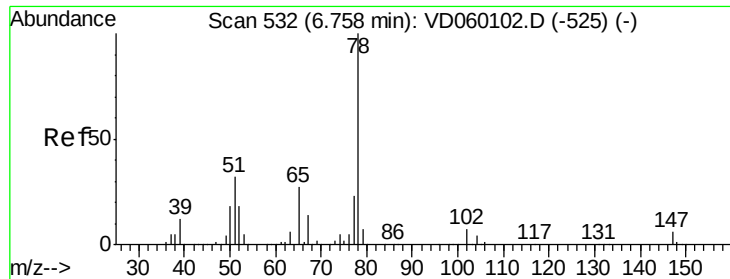


Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 69.00 (68.70 to 69.70): VDC

Ion 84.05 (83.75 to 84.75): VDC





#33

1,2-Dichloroethane-d4

Concen: N.D. ug/l

RT: 6.78 min Scan# 534

Delta R.T. 0.02 min

Lab File: VD060272.D

Acq: 1 Nov 2018 19:54

Instrument :

MSVOA\_D

ClientSampleId :

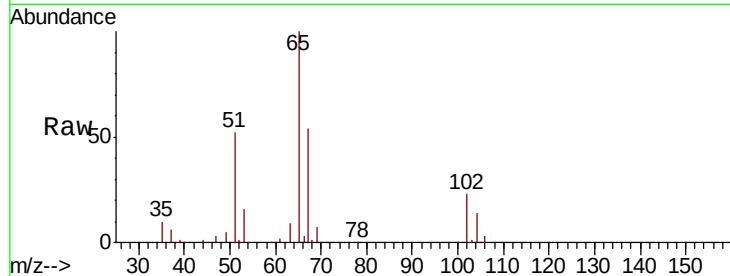
AU-05-103118-B

Tgt Ion: 65 Resp: 429568

Ion Ratio Lower Upper

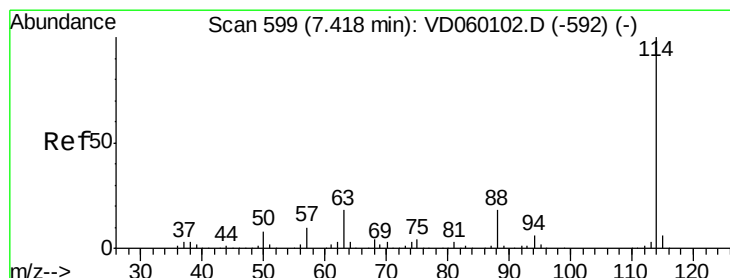
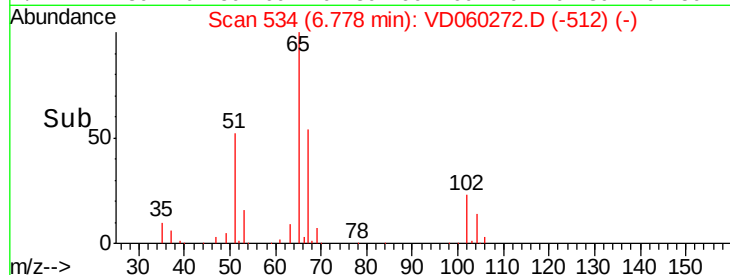
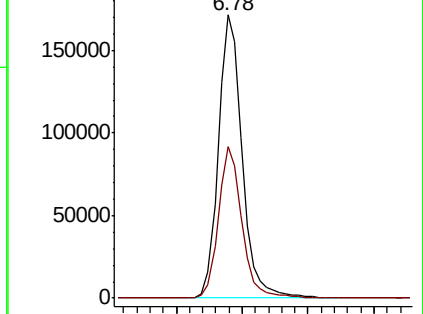
65 100

67 53.6 0.0 106.2



Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 7.44 min Scan# 601

Delta R.T. 0.02 min

Lab File: VD060272.D

Acq: 1 Nov 2018 19:54

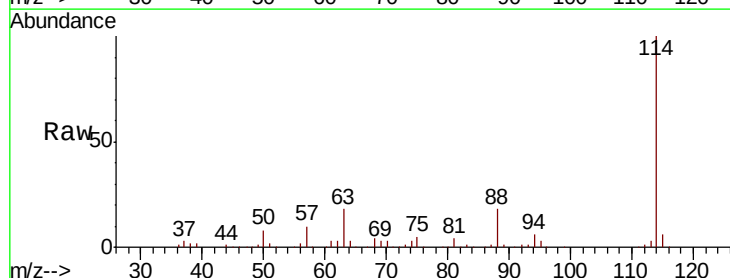
Tgt Ion: 114 Resp: 1649782

Ion Ratio Lower Upper

114 100

63 17.8 0.0 36.0

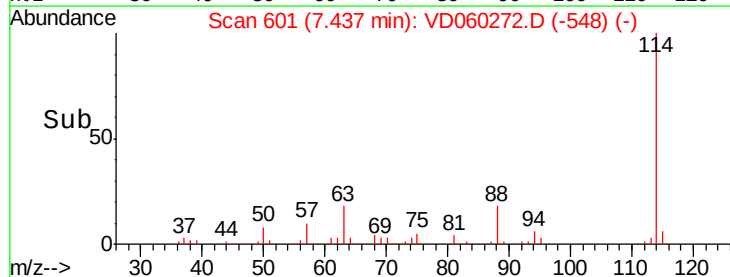
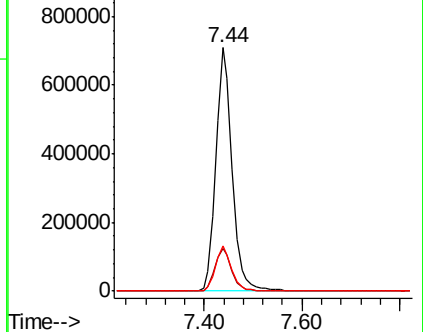
88 18.3 0.0 36.2

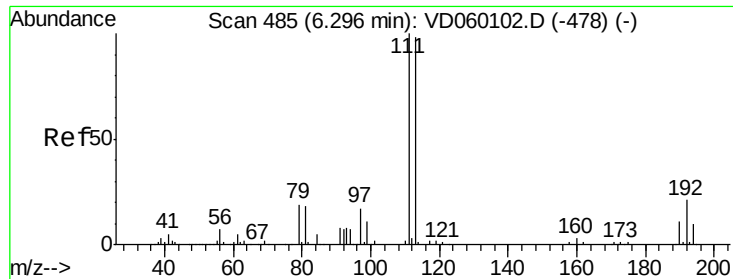


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 62.95 (62.65 to 63.65): VDC

Ion 87.90 (87.60 to 88.60): VDC

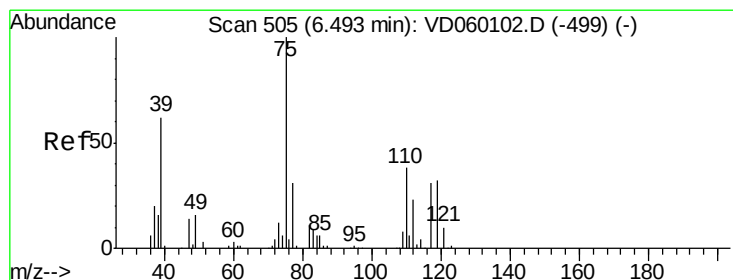
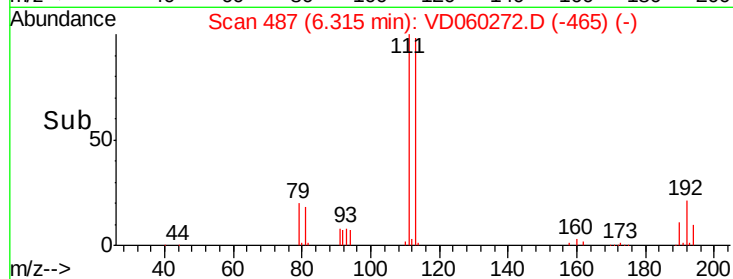
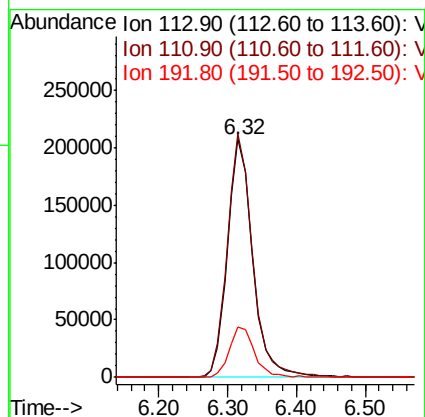
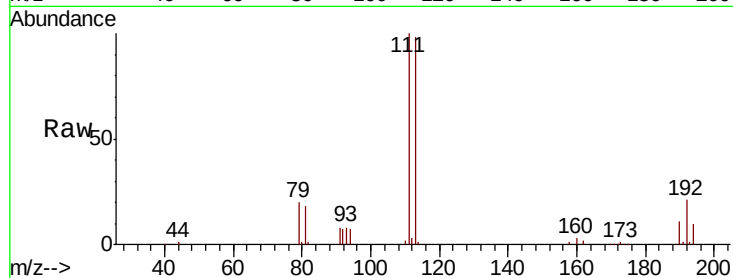




#35  
 Dibromofluoromethane  
 Concen: 50.000 ug/l  
 RT: 6.32 min Scan# 487  
 Delta R.T. 0.02 min  
 Lab File: VD060272.D  
 Acq: 1 Nov 2018 19:54

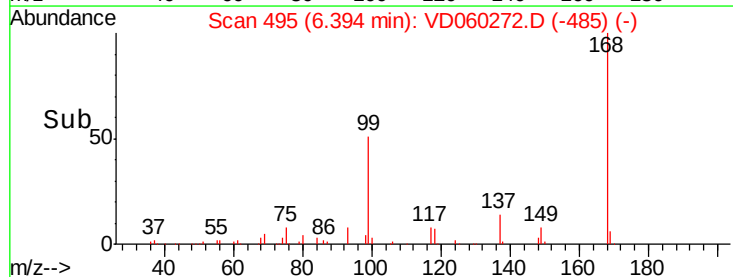
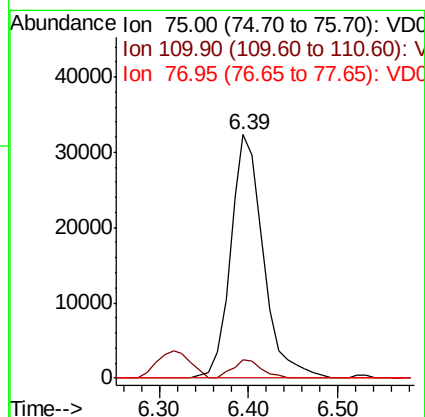
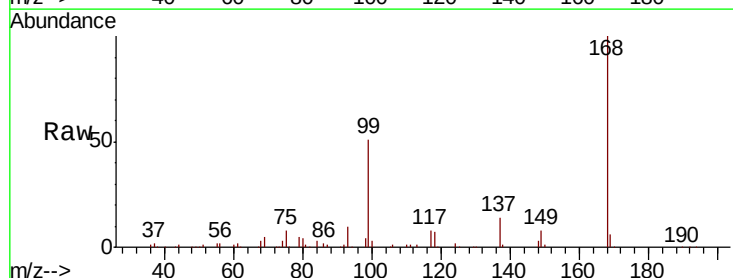
Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 AU-05-103118-B

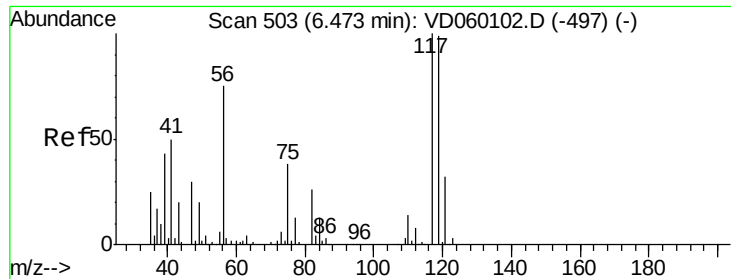
Tgt Ion: 113 Resp: 528470  
 Ion Ratio Lower Upper  
 113 100  
 111 102.2 81.5 122.3  
 192 21.0 17.4 26.0



#36  
 1,1-Dichloropropene  
 Concen: 5.226 ug/l  
 RT: 6.39 min Scan# 495  
 Delta R.T. -0.10 min  
 Lab File: VD060272.D  
 Acq: 1 Nov 2018 19:54

Tgt Ion: 75 Resp: 82384  
 Ion Ratio Lower Upper  
 75 100  
 110 7.7 19.0 57.0#  
 77 0.0 24.9 37.3#

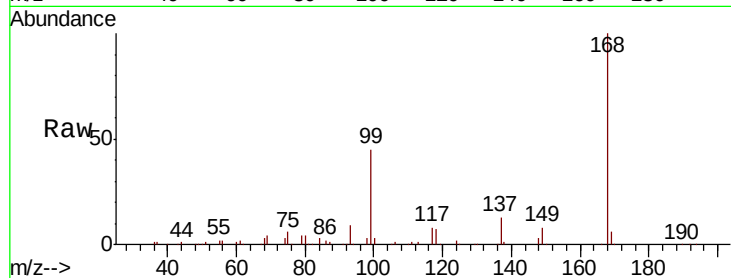




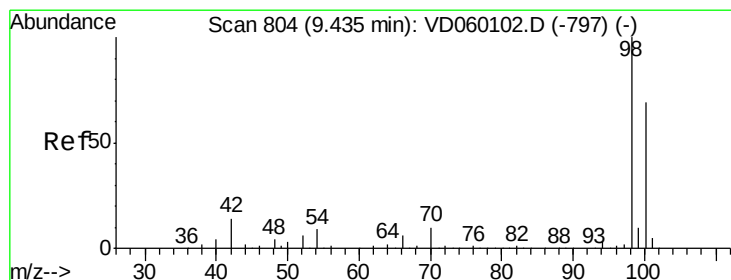
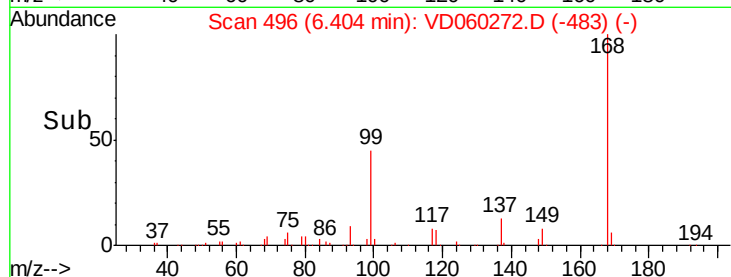
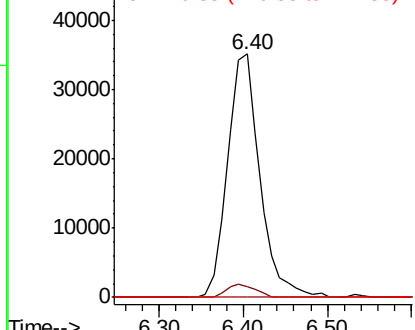
#38  
Carbon Tetrachloride  
Concen: 6.543 ug/l  
RT: 6.40 min Scan# 496  
Delta R.T. -0.07 min  
Lab File: VD060272.D  
Acq: 1 Nov 2018 19:54

Instrument :  
MSVOA\_D  
ClientSampleId :  
AU-05-103118-B

Tgt Ion:117 Resp: 93625  
Ion Ratio Lower Upper  
117 100  
119 4.1 77.8 116.6#  
121 0.0 24.8 37.2#

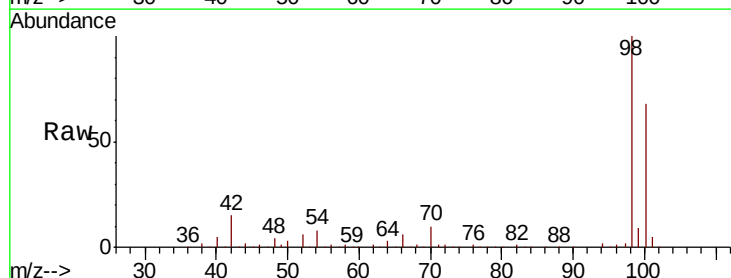


Abundance Ion 116.85 (116.55 to 117.55): V  
Ion 118.85 (118.55 to 119.55): V  
Ion 120.85 (120.55 to 121.55): V

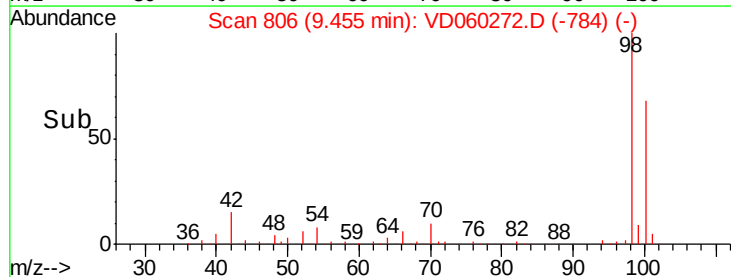
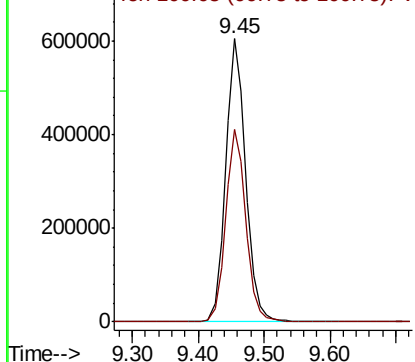


#50  
Toluene-d8  
Concen: N.D. ug/l  
RT: 9.45 min Scan# 806  
Delta R.T. 0.02 min  
Lab File: VD060272.D  
Acq: 1 Nov 2018 19:54

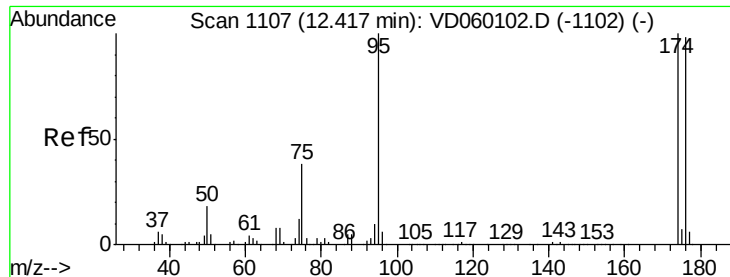
Tgt Ion: 98 Resp: 1283334  
Ion Ratio Lower Upper  
98 100  
100 67.8 55.4 83.0



Abundance Ion 98.05 (97.75 to 98.75): V  
Ion 100.05 (99.75 to 100.75): V



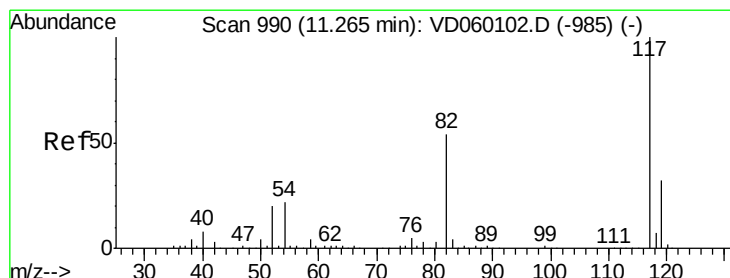
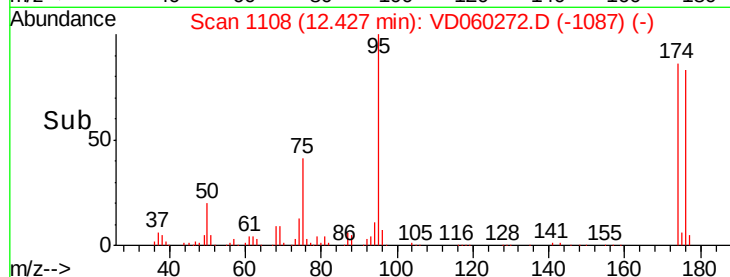
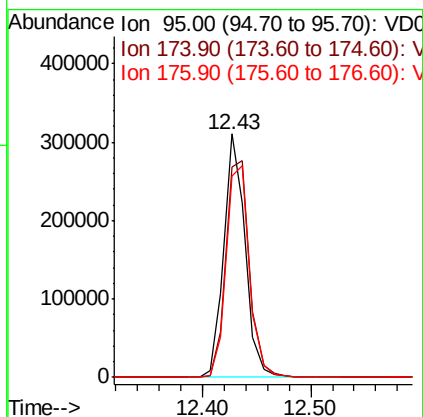
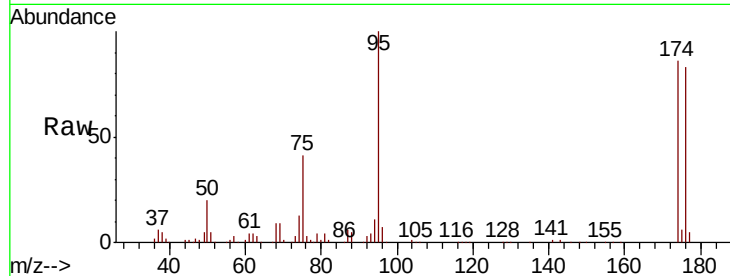




#62  
4-Bromofluorobenzene  
Concen: N.D. ug/l  
RT: 12.43 min Scan# 1108  
Delta R.T. 0.01 min  
Lab File: VD060272.D  
Acq: 1 Nov 2018 19:54

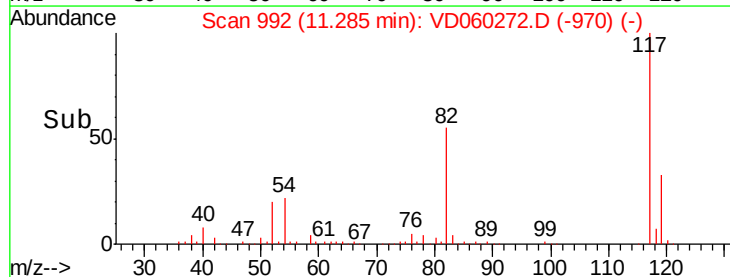
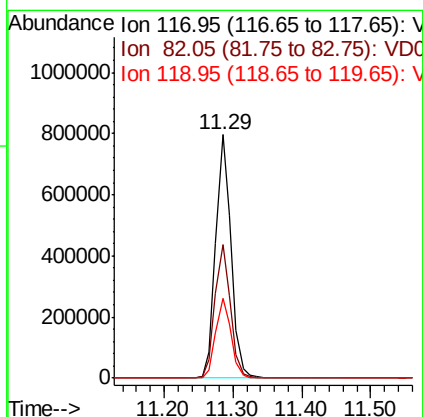
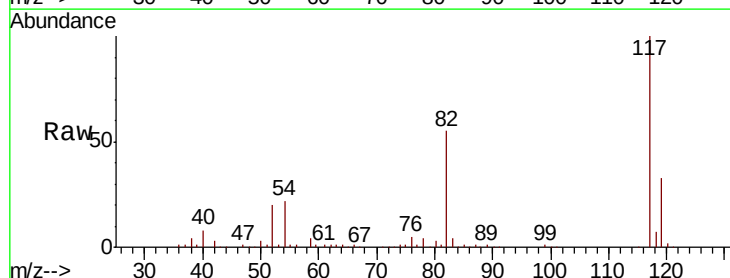
Instrument :  
MSVOA\_D  
ClientSampleId :  
AU-05-103118-B

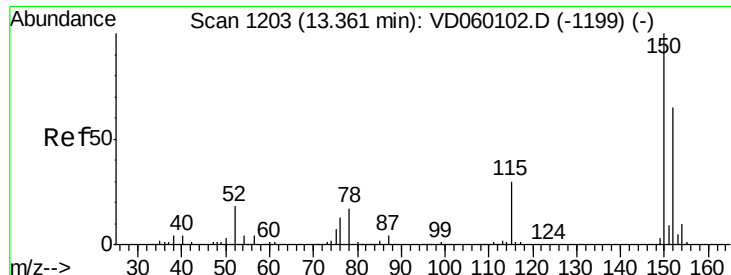
Tgt Ion: 95 Resp: 423679  
Ion Ratio Lower Upper  
95 100  
174 86.2 0.0 200.2  
176 82.7 0.0 195.6



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.29 min Scan# 992  
Delta R.T. 0.02 min  
Lab File: VD060272.D  
Acq: 1 Nov 2018 19:54

Tgt Ion: 117 Resp: 1227169  
Ion Ratio Lower Upper  
117 100  
82 54.9 43.4 65.2  
119 32.6 26.0 39.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.37 min Scan# 1204

Delta R.T. 0.01 min

Lab File: VD060272.D

Acq: 1 Nov 2018 19:54

Instrument :

MSVOA\_D

ClientSampleId :

AU-05-103118-B

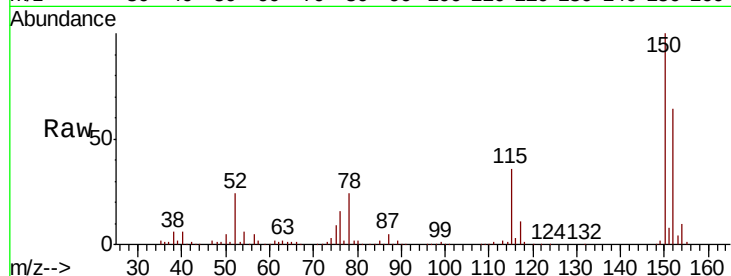
Tgt Ion:152 Resp: 477131

Ion Ratio Lower Upper

152 100

115 56.4 27.1 81.2

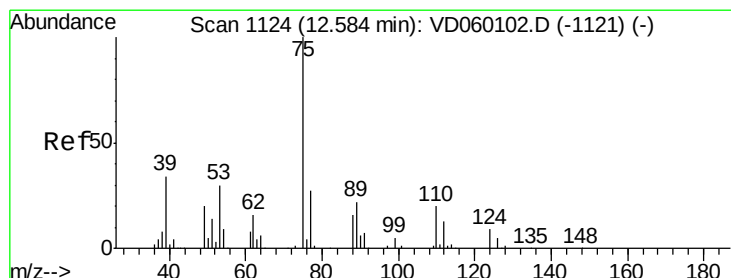
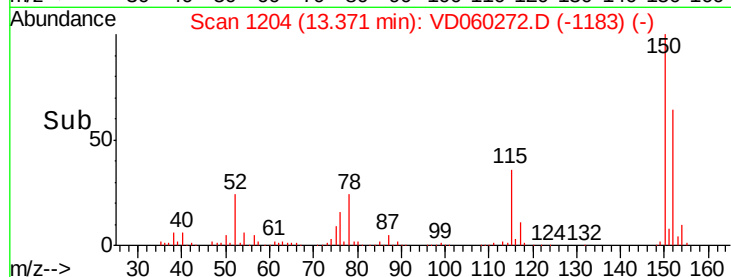
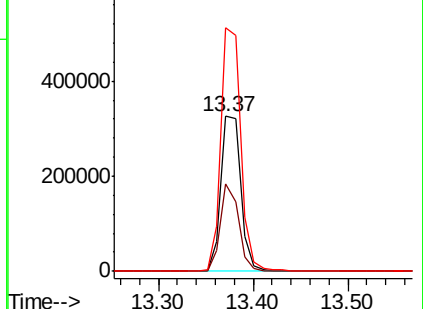
150 157.0 0.0 311.8



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 115.00 (114.70 to 115.70): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 25.077 ug/l

RT: 12.43 min Scan# 1108

Delta R.T. -0.16 min

Lab File: VD060272.D

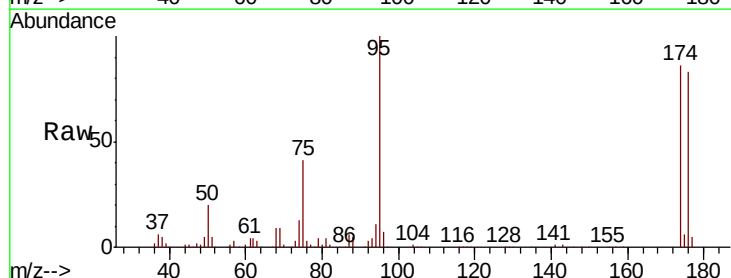
Acq: 1 Nov 2018 19:54

Tgt Ion: 75 Resp: 172308

Ion Ratio Lower Upper

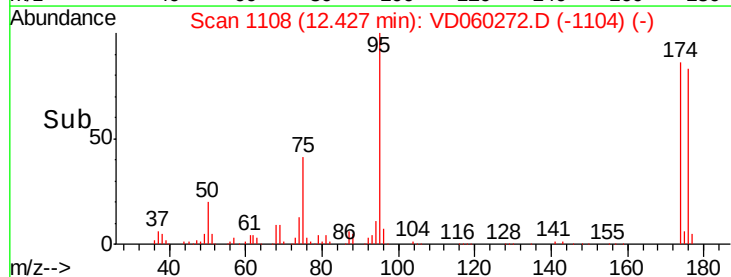
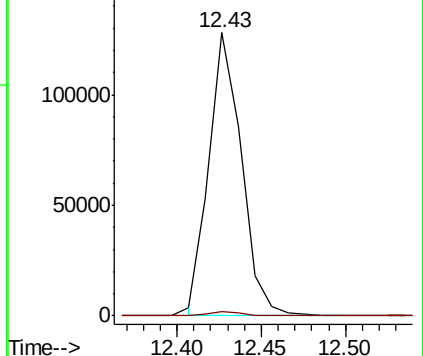
75 100

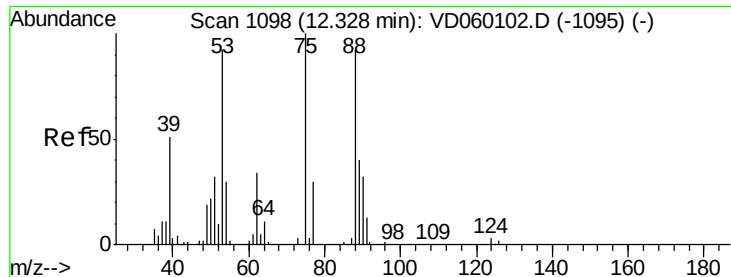
77 1.4 16.3 48.9#



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC





#81

trans-1,4-Dichloro-2-butene

Concen: 90.436 ug/l

RT: 12.43 min Scan# 1108

Delta R.T. 0.10 min

Lab File: VD060272.D

Acq: 1 Nov 2018 19:54

Instrument :

MSVOA\_D

ClientSampleId :

AU-05-103118-B

Tgt Ion: 75 Resp: 174609

Ion Ratio Lower Upper

75 100

53 0.0 73.0 109.6#

89 0.0 32.0 48.0#

