

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD092518\  
 Data File : VD060087.D  
 Acq On : 25 Sep 2018 12:12  
 Operator : VA/AP  
 Sample : VD0925SBL01  
 Misc : 5.00g/5ml/MSVOA D/SOIL  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VD0925SBL01

Quant Time: Sep 25 14:40:50 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D091318S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Sep 13 16:17:40 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 6.39  | 168  | 1648667  | 50.00 | ug/l  | 0.01     |
| 34) 1,4-Difluorobenzene    | 7.43  | 114  | 2235820  | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.27 | 117  | 1803182  | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.37 | 152  | 954104   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 6.77  | 65   | 683541   | 53.17 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 106.34% |          |
| 35) Dibromofluoromethane    | 6.30  | 113  | 906931   | 51.92 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 103.84% |          |
| 50) Toluene-d8              | 9.44  | 98   | 2500535  | 51.65 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 103.30% |          |
| 62) 4-Bromofluorobenzene    | 12.42 | 95   | 953214   | 51.54 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 103.08% |          |

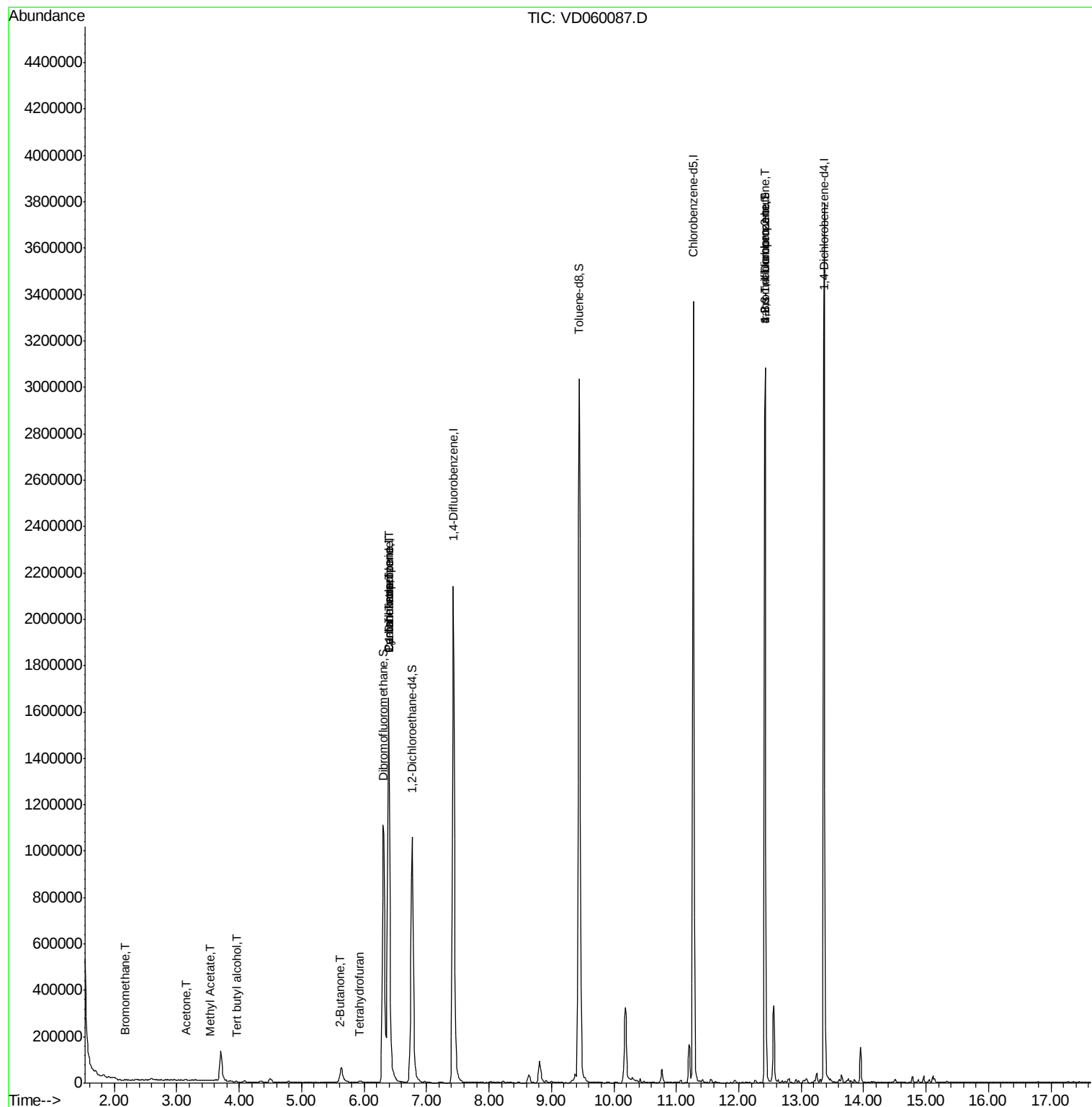
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 5) Bromomethane                | 2.16  | 94   | 2901     | 1.983     | ug/l # | 63     |
| 11) Tert butyl alcohol         | 3.96  | 59   | 3139     | 3.026     | ug/l # | 74     |
| 16) Acetone                    | 3.15  | 43   | 10203    | 4.110     | ug/l # | 89     |
| 18) Methyl Acetate             | 3.55  | 43   | 5666     | 1.122     | ug/l # | 64     |
| 20) Methylene Chloride         | 3.71  | 84   | 78538    | Below Cal |        | 95     |
| 25) 2-Butanone                 | 5.61  | 43   | 11363    | 1.696     | ug/l   | 96     |
| 29) Tetrahydrofuran            | 5.94  | 42   | 5895     | 1.641     | ug/l # | 84     |
| 31) Cyclohexane                | 6.38  | 56   | 32325    | 1.132     | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 6.39  | 75   | 109401   | 4.926     | ug/l # | 46     |
| 38) Carbon Tetrachloride       | 6.39  | 117  | 126641   | 6.108     | ug/l # | 15     |
| 51) 4-Methyl-2-Pentanone       | 9.34  | 43   | 12289    | Below Cal | #      | 84     |
| 59) 2-Hexanone                 | 10.48 | 43   | 7846     | Below Cal |        | 88     |
| 76) 1,2,3-Trichloropropane     | 12.42 | 75   | 331896   | 22.777    | ug/l # | 44     |
| 81) trans-1,4-Dichloro-2-buten | 12.42 | 75   | 380342   | 86.467    | ug/l # | 15     |
| 89) n-Butylbenzene             | 13.65 | 91   | 6960     | Below Cal |        | 98     |
| 91) 1,2-Dichlorobenzene        | 13.66 | 146  | 5105     | Below Cal |        | 94     |

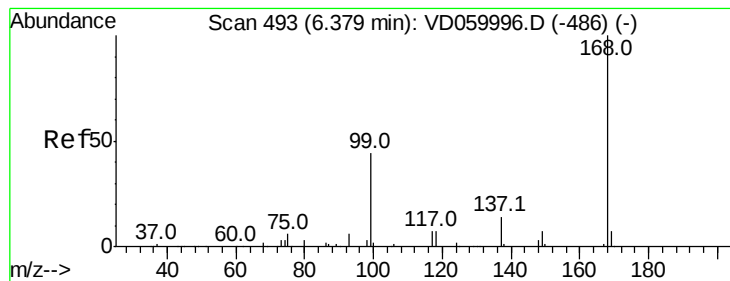
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD092518\  
Data File : VD060087.D  
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Operator : VA/AP  
Sample : VD0925SBL01  
Misc : 5.00g/5ml/MSVOA D/SOIL  
ALS Vial : 3 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
VD0925SBL01

Quant Time: Sep 25 14:40:50 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_D\METHOD\82D091318S.M  
Quant Title : SW846 8260  
QLast Update : Thu Sep 13 16:17:40 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 6.39 min Scan# 495

Delta R.T. 0.01 min

Lab File: VD060087.D

Acq: 25 Sep 2018 12:12

Instrument :

MSVOA\_D

ClientSampleId :

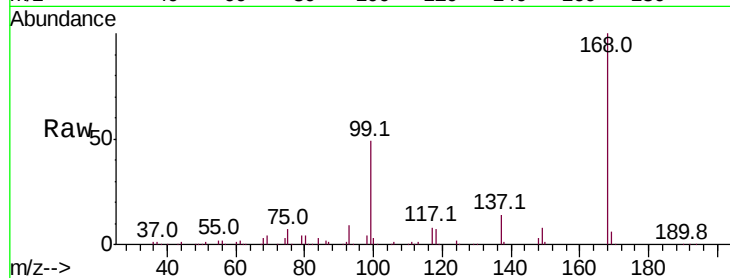
VD0925SBL01

Tot Ion:168 Resp: 1648667

Ion Ratio Lower Upper

168 100

99 48.5 38.5 57.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

6.39

600000

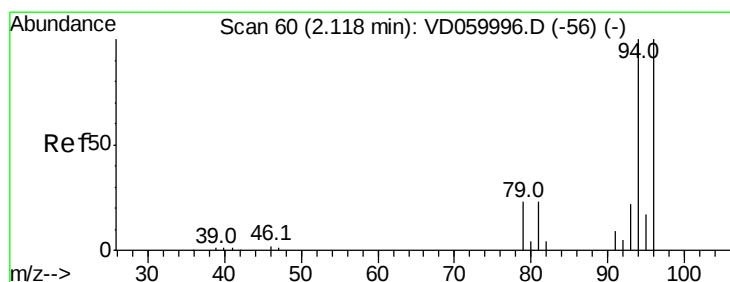
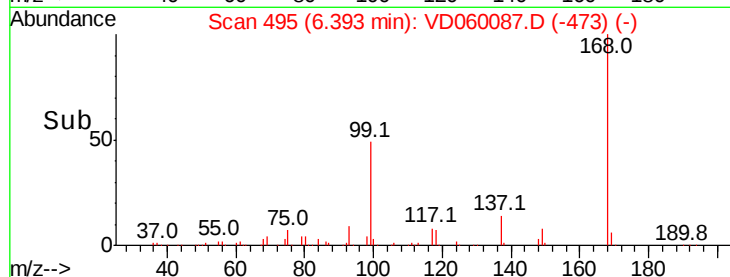
400000

200000

0

Time-->

6.30 6.40 6.50 6.60



#5

Bromomethane

Concen: 1.983 ug/l

RT: 2.16 min Scan# 65

Delta R.T. 0.04 min

Lab File: VD060087.D

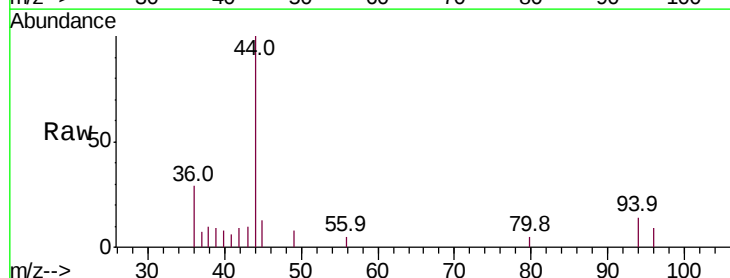
Acq: 25 Sep 2018 12:12

Tgt Ion: 94 Resp: 2901

Ion Ratio Lower Upper

94 100

96 62.6 79.8 119.8#



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC

2.16

1000

800

600

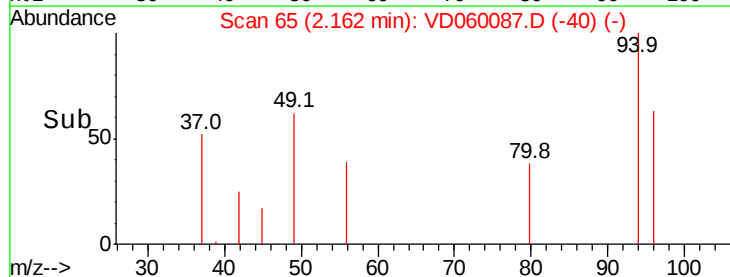
400

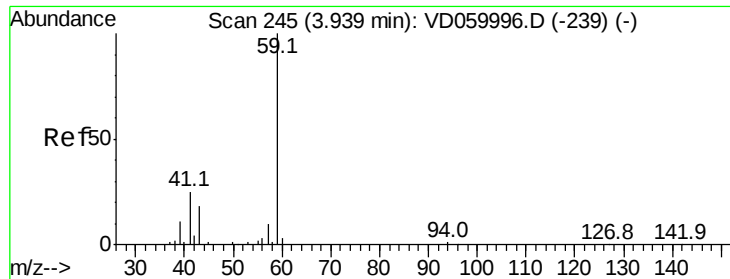
200

0

Time-->

2.10 2.15 2.20





#11

Tert butyl alcohol

Concen: 3.026 ug/l

RT: 3.96 min Scan# 248

Delta R.T. 0.02 min

Lab File: VD060087.D

Acq: 25 Sep 2018 12:12

Instrument :

MSVOA\_D

ClientSampleId :

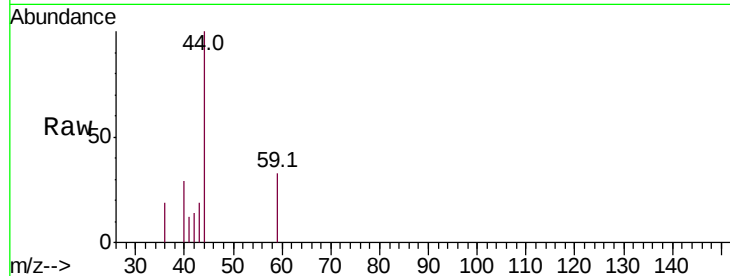
VD0925SBL01

Tot Ion: 59 Resp: 3139

Ion Ratio Lower Upper

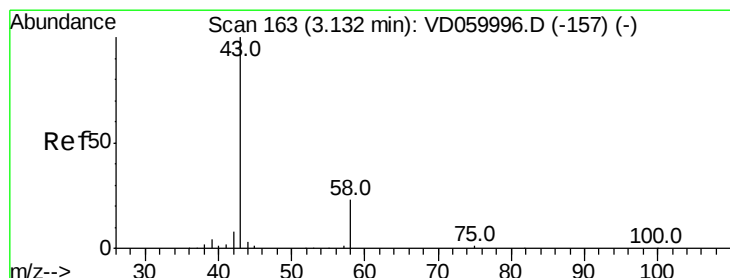
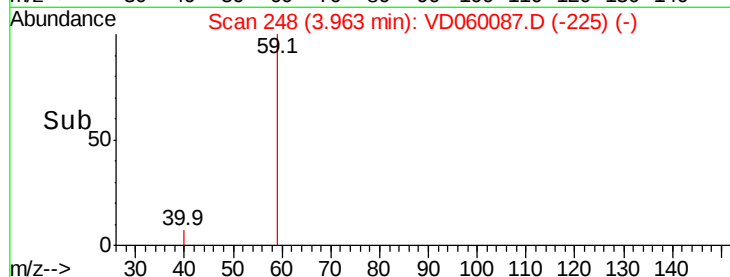
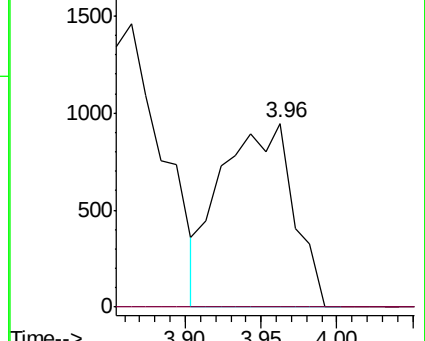
59 100

57 0.0 7.4 11.2#



Abundance Ion 58.95 (58.65 to 59.65): VDC

Ion 56.95 (56.65 to 57.65): VDC



#16

Acetone

Concen: 4.110 ug/l

RT: 3.15 min Scan# 165

Delta R.T. 0.01 min

Lab File: VD060087.D

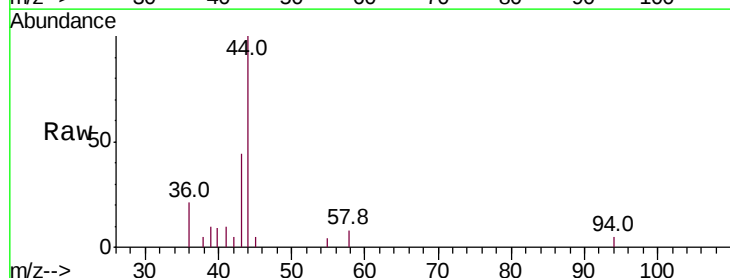
Acq: 25 Sep 2018 12:12

Tgt Ion: 43 Resp: 10203

Ion Ratio Lower Upper

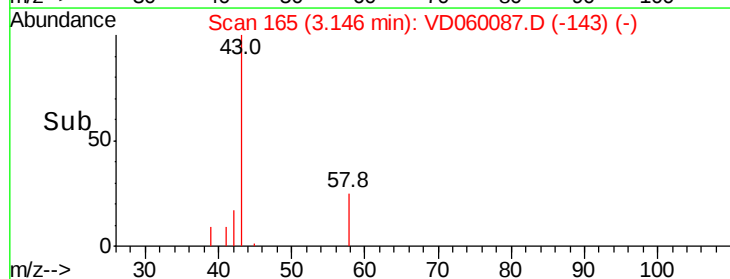
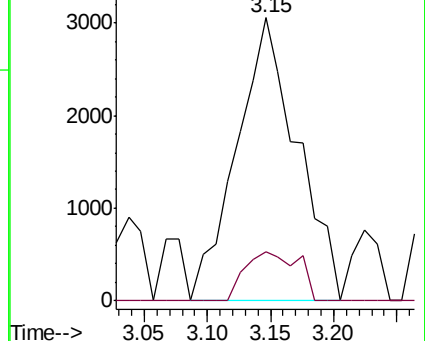
43 100

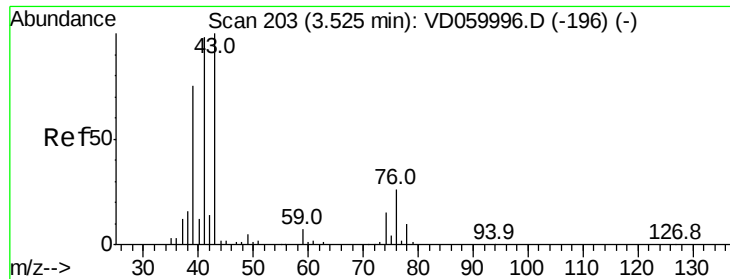
58 17.5 18.1 27.1#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC





#18

Methyl Acetate

Concen: 1.122 ug/l

RT: 3.55 min Scan# 206

Delta R.T. 0.02 min

Lab File: VD060087.D

Acq: 25 Sep 2018 12:12

Instrument :

MSVOA\_D

ClientSampleId :

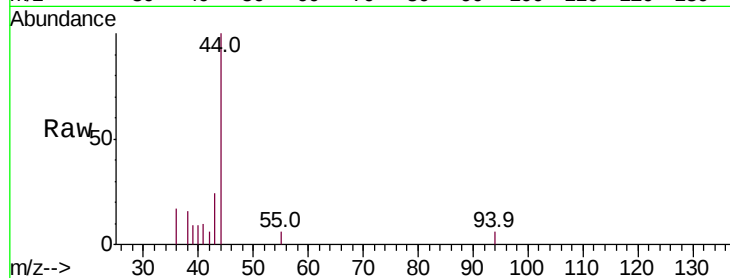
VD0925SBL01

Tot Ion: 43 Resp: 5666

Ion Ratio Lower Upper

43 100

74 0.0 11.8 17.8#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 74.00 (73.70 to 74.70): VDC

1500

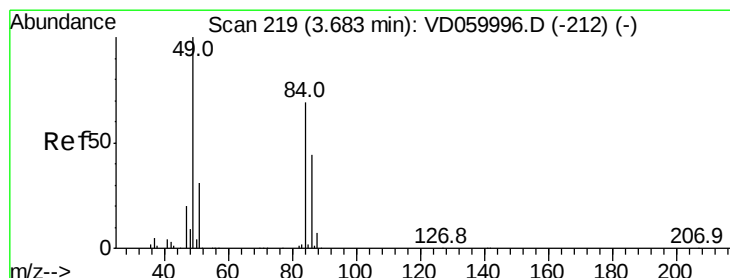
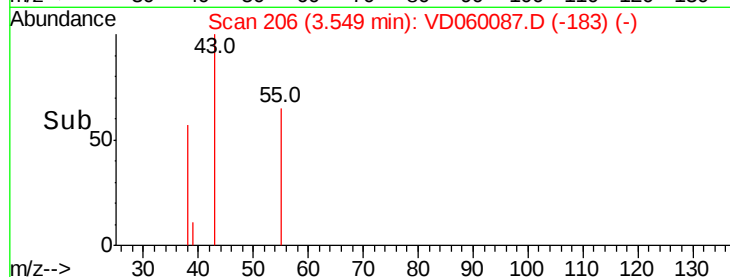
1000

500

0

Time-->

3.40 3.45 3.50 3.55 3.60



#20

Methylene Chloride

Concen: Below Cal

RT: 3.71 min Scan# 222

Delta R.T. 0.02 min

Lab File: VD060087.D

Acq: 25 Sep 2018 12:12

Tgt Ion: 84 Resp: 78538

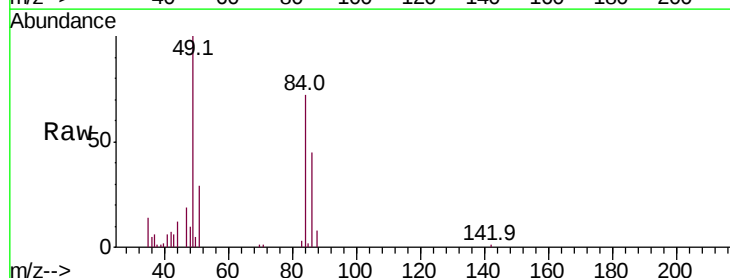
Ion Ratio Lower Upper

84 100

49 139.0 116.6 175.0

51 40.4 35.9 53.9

86 62.7 51.8 77.6



Abundance Ion 83.95 (83.65 to 84.65): VDC

Ion 48.90 (48.60 to 49.60): VDC

Ion 50.90 (50.60 to 51.60): VDC

Ion 85.90 (85.60 to 86.60): VDC

60000

50000

40000

30000

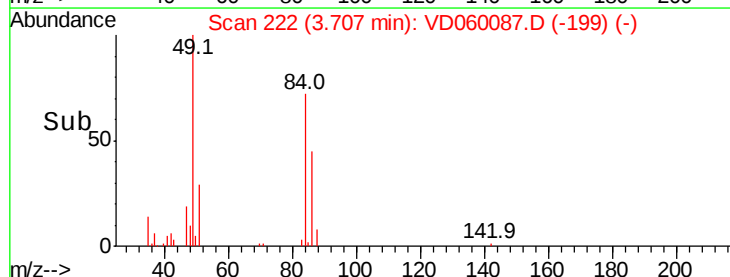
20000

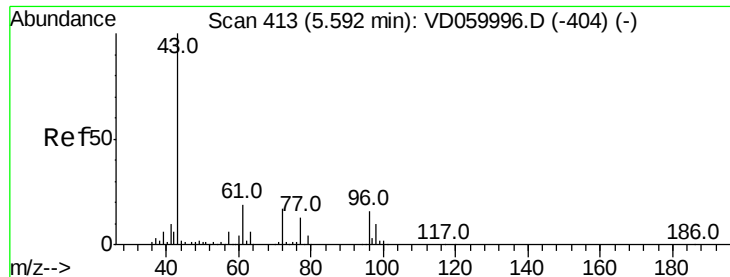
10000

0

Time-->

3.60 3.70 3.80 3.90





#25

2-Butanone

Concen: 1.696 ug/l

RT: 5.61 min Scan# 415

Delta R.T. 0.02 min

Lab File: VD060087.D

Acq: 25 Sep 2018 12:12

Instrument :

MSVOA\_D

ClientSampleId :

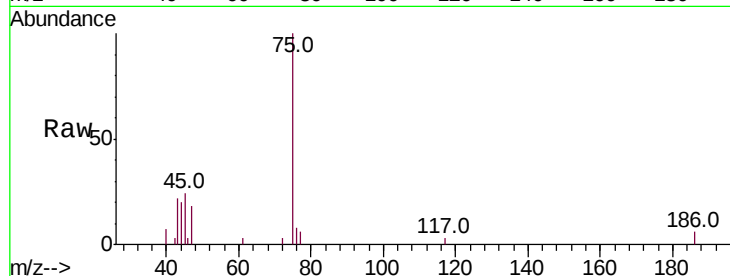
VD0925SBL01

Tot Ion: 43 Resp: 11363

Ion Ratio Lower Upper

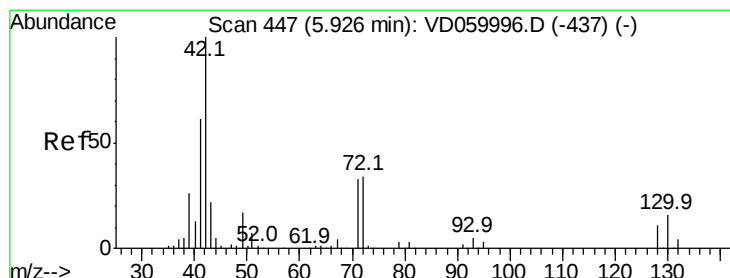
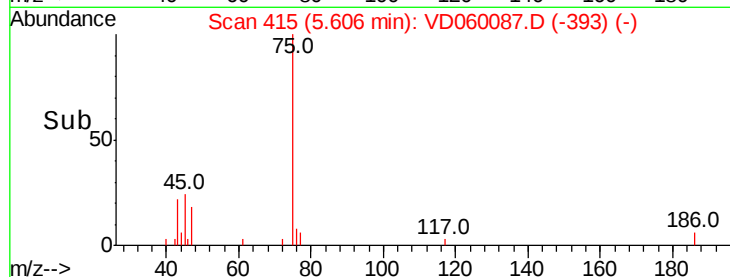
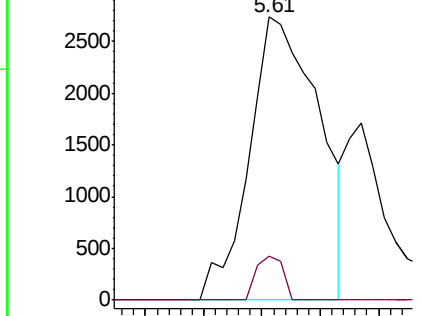
43 100

72 15.4 13.6 20.4



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC



#29

Tetrahydrofuran

Concen: 1.641 ug/l

RT: 5.94 min Scan# 449

Delta R.T. 0.01 min

Lab File: VD060087.D

Acq: 25 Sep 2018 12:12

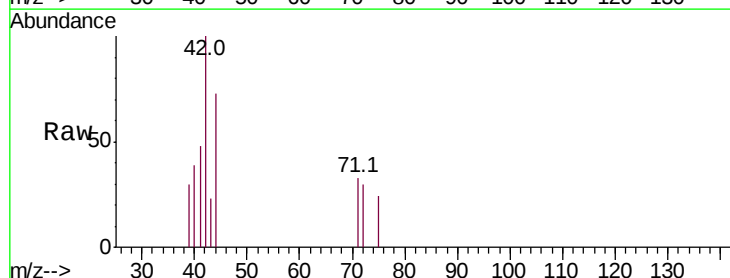
Tgt Ion: 42 Resp: 5895

Ion Ratio Lower Upper

42 100

72 22.9 26.9 40.3#

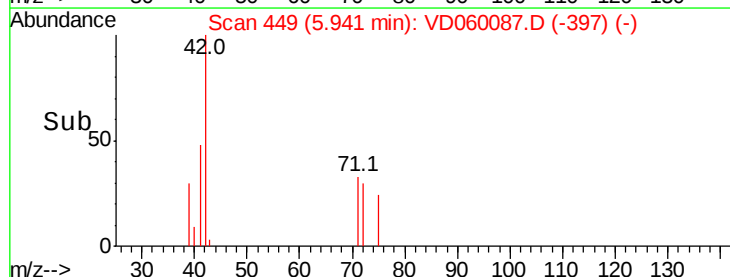
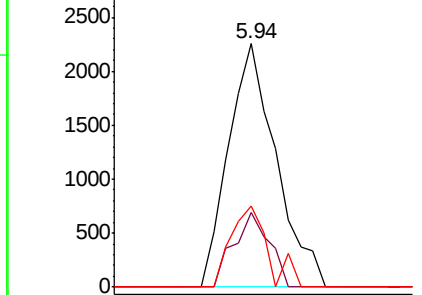
71 25.6 26.2 39.4#

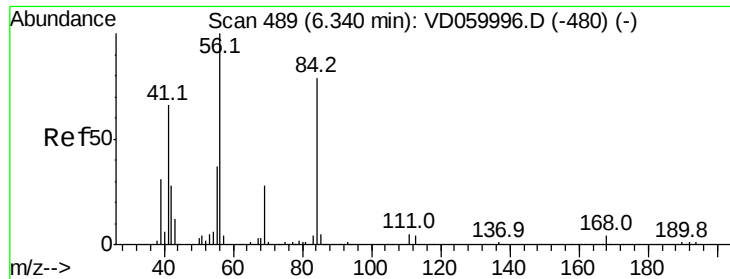


Abundance Ion 42.00 (41.70 to 42.70): VDC

Ion 72.00 (71.70 to 72.70): VDC

Ion 71.00 (70.70 to 71.70): VDC

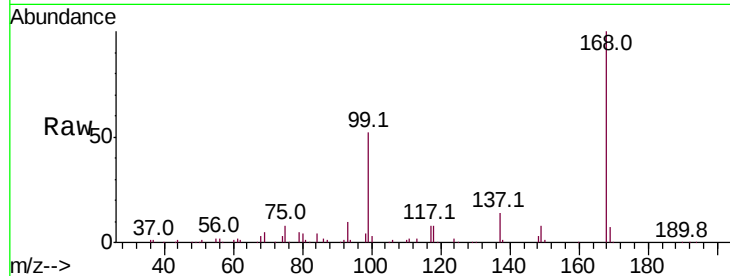




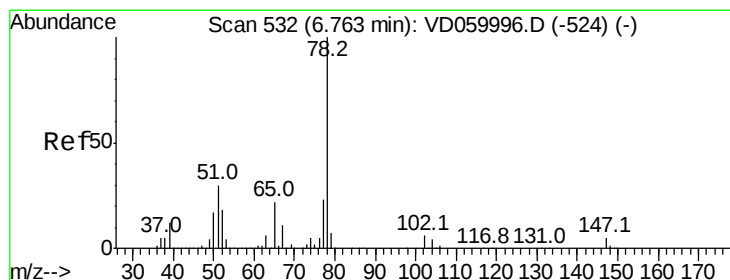
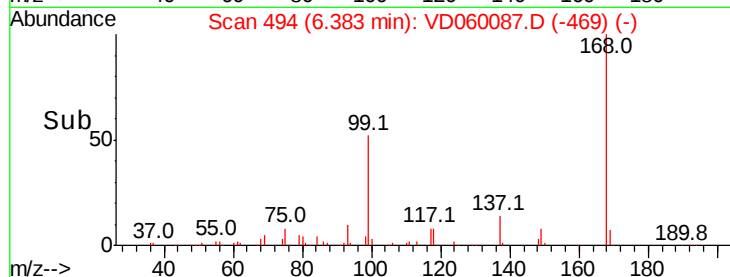
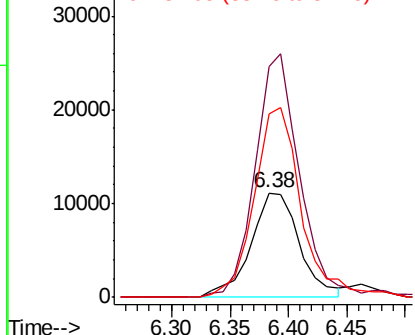
#31  
Cvclohexane  
Concen: 1.132 ug/l  
RT: 6.38 min Scan# 494  
Delta R.T. 0.04 min  
Lab File: VD060087.D  
Acq: 25 Sep 2018 12:12

Instrument :  
MSVOA\_D  
ClientSampleId :  
VD0925SBL01

Tot Ion: 56 Resp: 32325  
Ion Ratio Lower Upper  
56 100  
69 221.2 22.7 34.1#  
84 176.0 64.0 96.0#

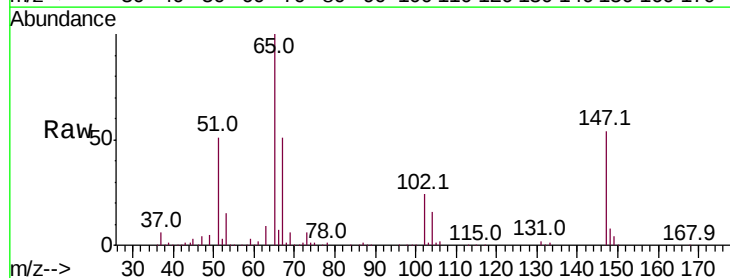


Abundance Ion 55.95 (55.65 to 56.65): VDC  
Ion 69.00 (68.70 to 69.70): VDC  
Ion 84.05 (83.75 to 84.75): VDC

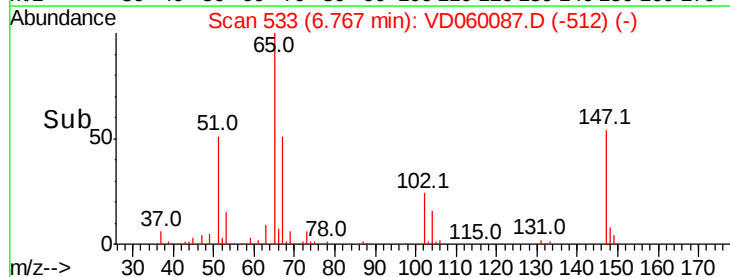
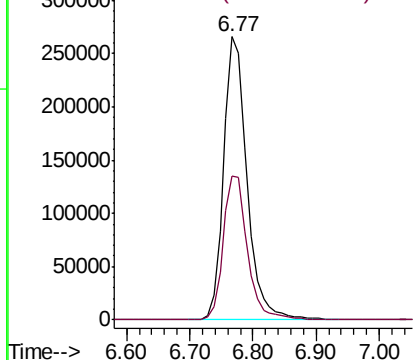


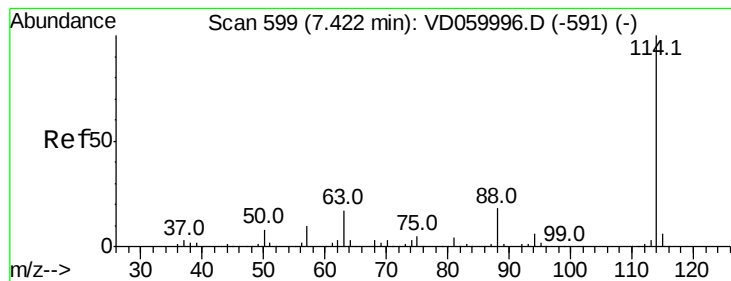
#33  
1,2-Dichloroethane-d4  
Concen: Below ug/l  
RT: 6.77 min Scan# 533  
Delta R.T. 0.00 min  
Lab File: VD060087.D  
Acq: 25 Sep 2018 12:12

Tgt Ion: 65 Resp: 683541  
Ion Ratio Lower Upper  
65 100  
67 51.0 0.0 104.8



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: 7.43 min Scan# 600

Delta R.T. 0.00 min

Lab File: VD060087.D

Acq: 25 Sep 2018 12:12

Instrument :

MSVOA\_D

ClientSampleId :

VD0925SBL01

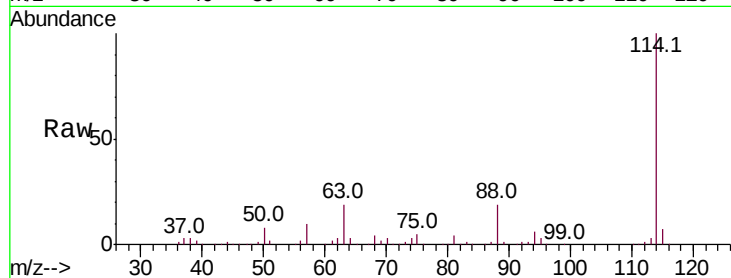
Tot Ion:114 Resp: 2235820

Ion Ratio Lower Upper

114 100

63 18.5 0.0 34.4

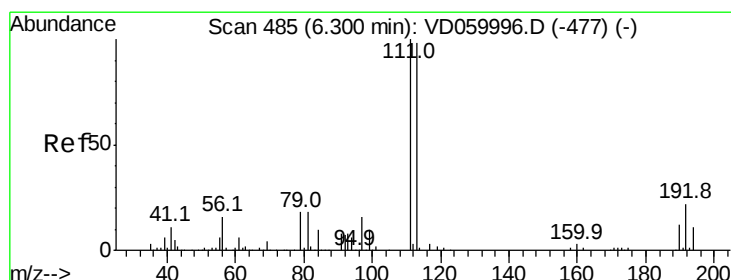
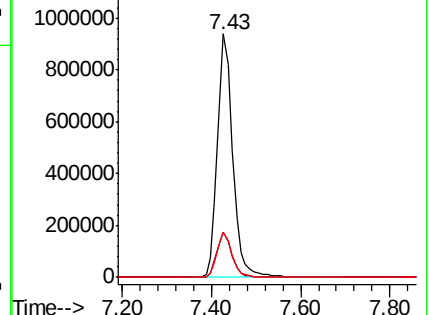
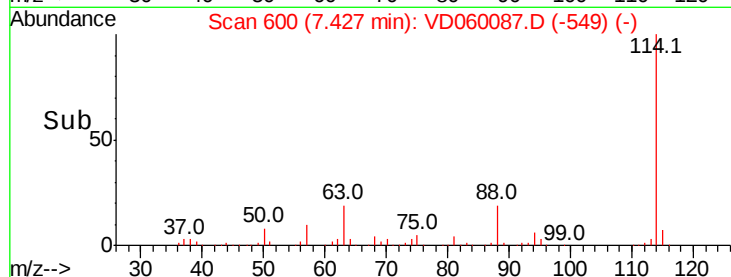
88 18.5 0.0 35.8



Abundance Ion 114.00 (113.70 to 114.70): V

Ion 62.95 (62.65 to 63.65): V

Ion 87.90 (87.60 to 88.60): V



#35

Dibromofluoromethane

Concen: 50.000 ug/l

RT: 6.30 min Scan# 486

Delta R.T. 0.00 min

Lab File: VD060087.D

Acq: 25 Sep 2018 12:12

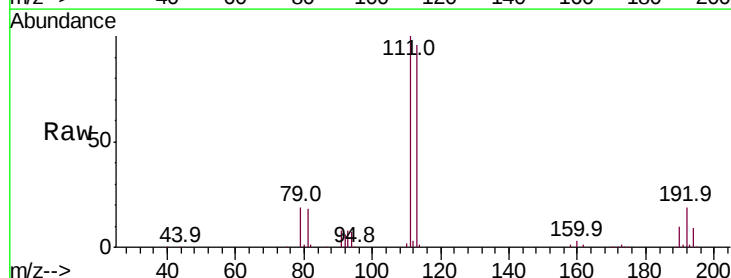
Tgt Ion:113 Resp: 906931

Ion Ratio Lower Upper

113 100

111 104.5 81.3 121.9

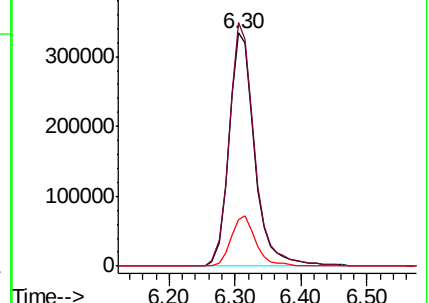
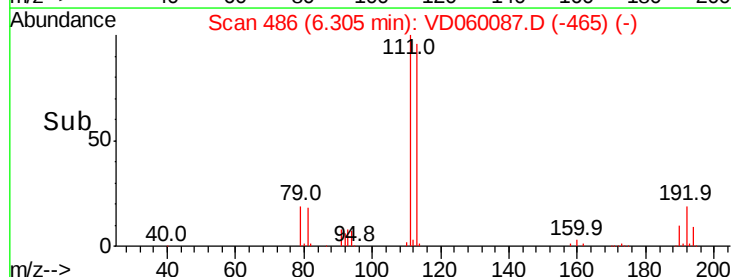
192 20.1 18.1 27.1

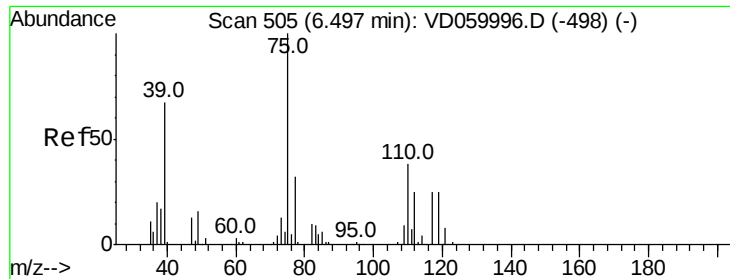


Abundance Ion 112.90 (112.60 to 113.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 191.80 (191.50 to 192.50): V





#36

1,1-Dichloropropene

Concen: 4.926 ug/l

RT: 6.39 min Scan# 495

Delta R.T. -0.10 min

Lab File: VD060087.D

Acq: 25 Sep 2018 12:12

Instrument :

MSVOA\_D

ClientSampleId :

VD0925SBL01

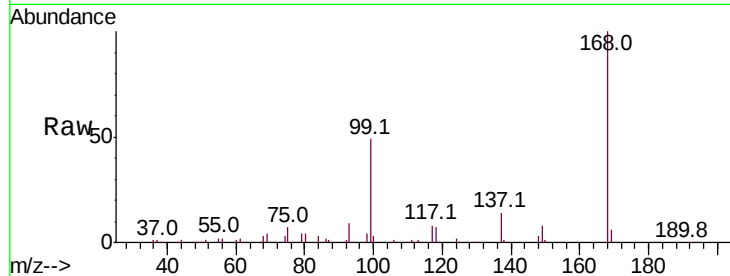
Tot Ion: 75 Resp: 109401

Ion Ratio Lower Upper

75 100

110 6.9 18.9 56.9#

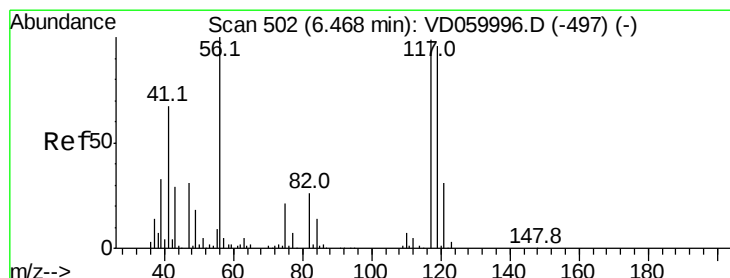
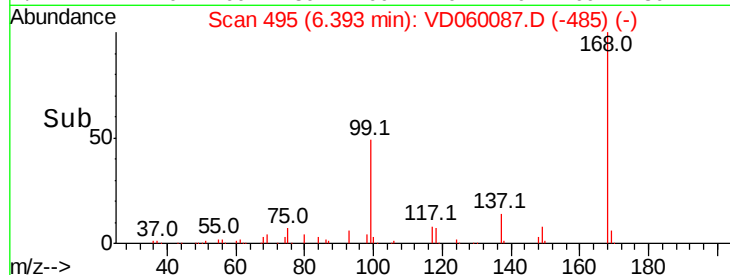
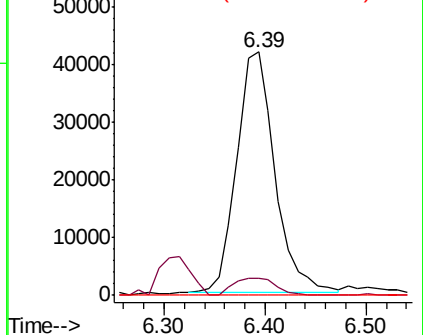
77 0.0 25.3 37.9#



Abundance Ion 75.00 (74.70 to 75.70): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.95 (76.65 to 77.65): V



#38

Carbon Tetrachloride

Concen: 6.108 ug/l

RT: 6.39 min Scan# 495

Delta R.T. -0.07 min

Lab File: VD060087.D

Acq: 25 Sep 2018 12:12

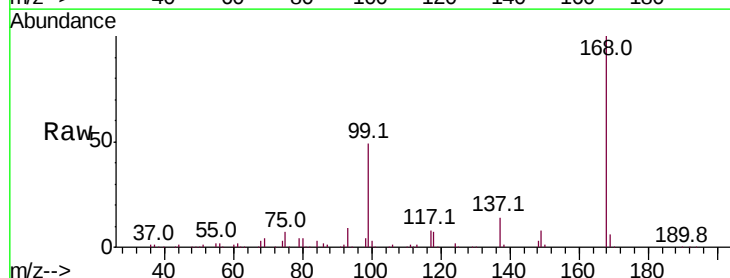
Tgt Ion: 117 Resp: 126641

Ion Ratio Lower Upper

117 100

119 3.9 76.7 115.1#

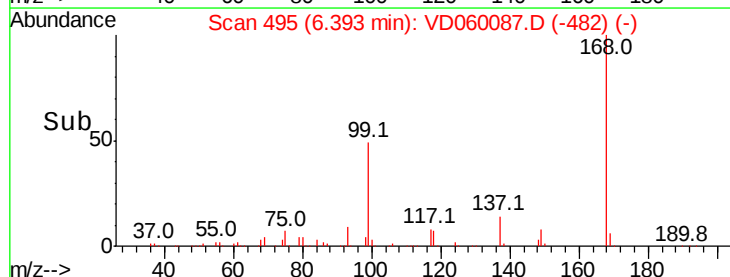
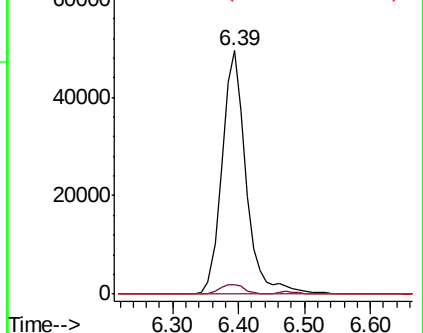
121 0.0 24.9 37.3#

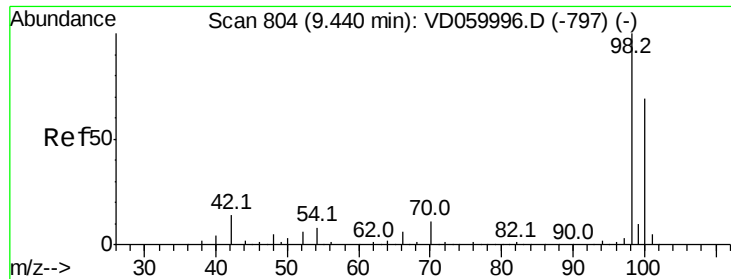


Abundance Ion 116.85 (116.55 to 117.55): V

Ion 118.85 (118.55 to 119.55): V

Ion 120.85 (120.55 to 121.55): V

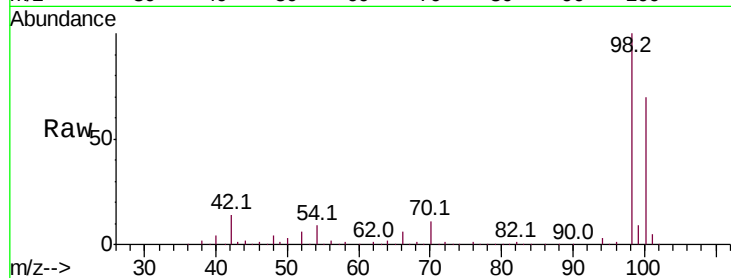




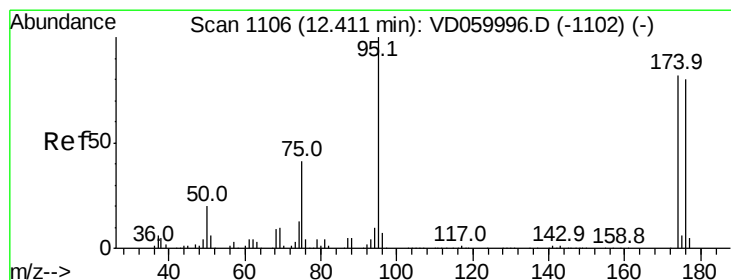
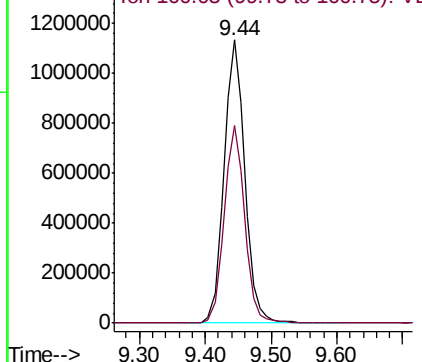
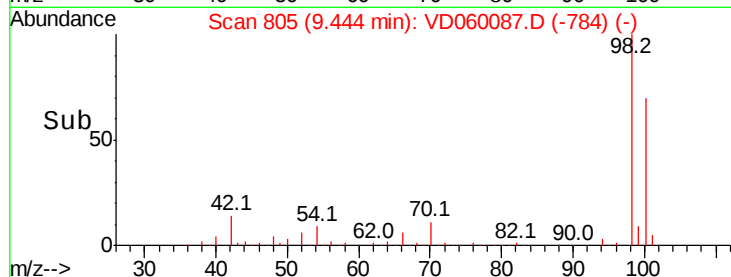
#50  
Toluene-d8  
Concen: N.D. ug/l  
RT: 9.44 min Scan# 805  
Delta R.T. 0.00 min  
Lab File: VD060087.D  
Acq: 25 Sep 2018 12:12

Instrument :  
MSVOA\_D  
ClientSampleId :  
VD0925SBL01

Tot Ion: 98 Resp: 2500535  
Ion Ratio Lower Upper  
98 100  
100 69.9 55.8 83.6

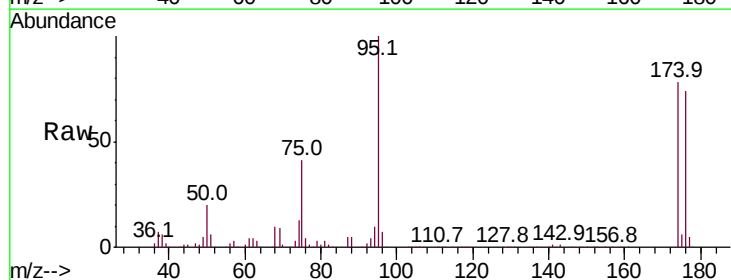


Abundance Ion 98.05 (97.75 to 98.75): VD0  
Ion 100.05 (99.75 to 100.75): VD

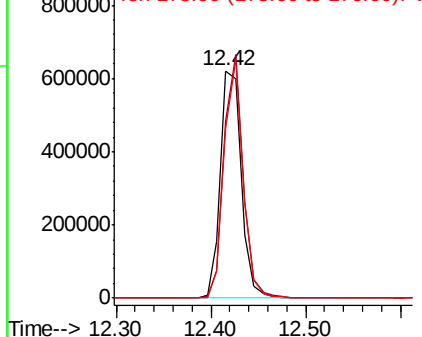
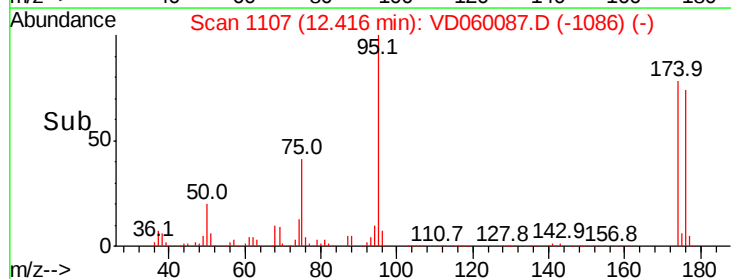


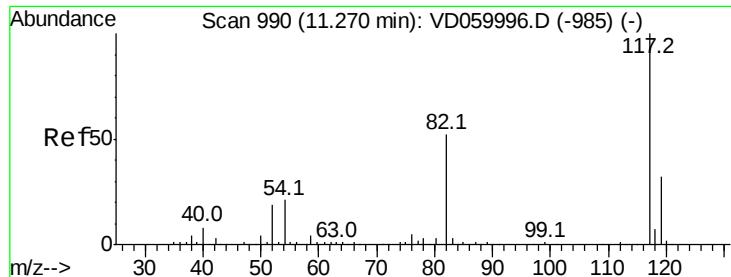
#62  
4-Bromofluorobenzene  
Concen: Below ug/l  
RT: 12.42 min Scan# 1107  
Delta R.T. 0.00 min  
Lab File: VD060087.D  
Acq: 25 Sep 2018 12:12

Tgt Ion: 95 Resp: 953214  
Ion Ratio Lower Upper  
95 100  
174 77.8 0.0 165.0  
176 74.4 0.0 160.2



Abundance Ion 95.00 (94.70 to 95.70): VD0  
Ion 173.90 (173.60 to 174.60): V  
Ion 175.90 (175.60 to 176.60): V





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.27 min Scan# 991

Delta R.T. 0.00 min

Lab File: VD060087.D

Acq: 25 Sep 2018 12:12

Instrument :

MSVOA\_D

ClientSampleId :

VD0925SBL01

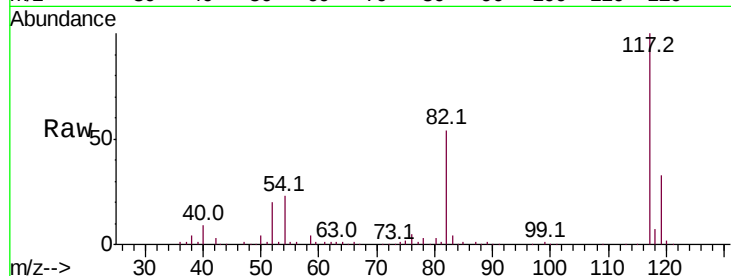
Tot Ion:117 Resp: 1803182

Ion Ratio Lower Upper

117 100

82 53.6 41.7 62.5

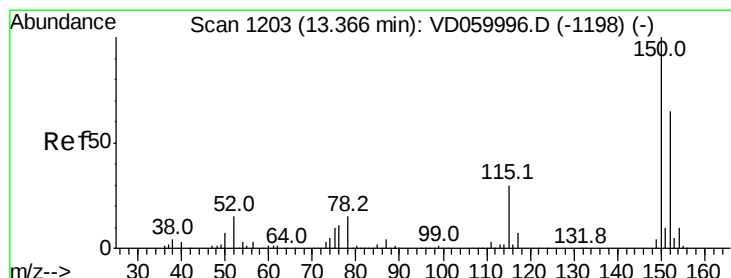
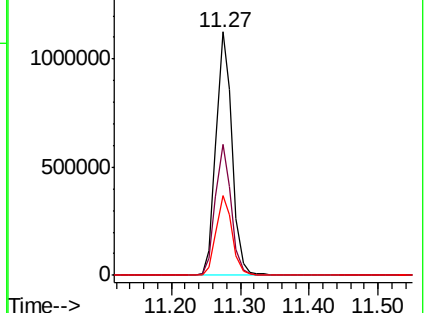
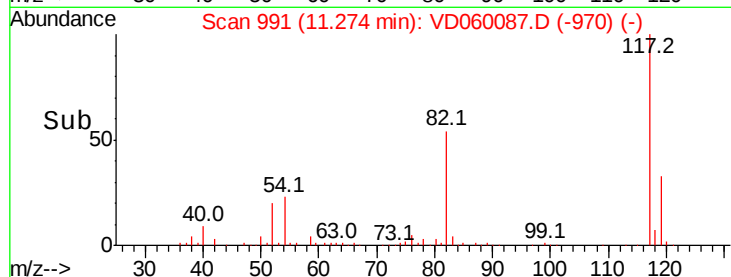
119 32.6 26.0 39.0



Abundance Ion 116.95 (116.65 to 117.65): V

Ion 82.05 (81.75 to 82.75): V

Ion 118.95 (118.65 to 119.65): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.37 min Scan# 1204

Delta R.T. 0.00 min

Lab File: VD060087.D

Acq: 25 Sep 2018 12:12

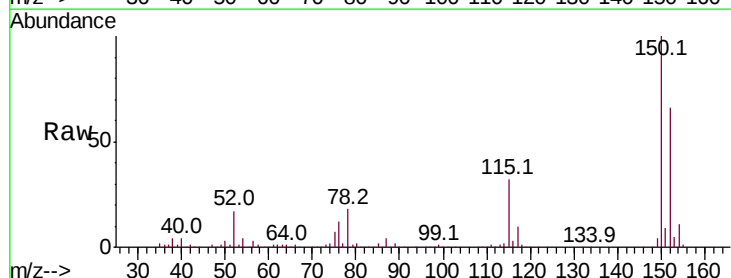
Tgt Ion:152 Resp: 954104

Ion Ratio Lower Upper

152 100

115 48.1 24.6 73.8

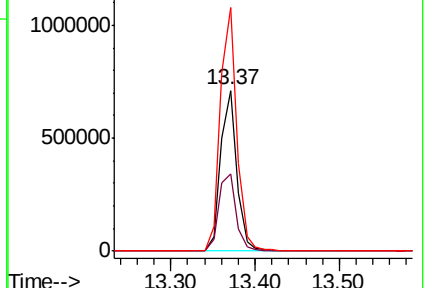
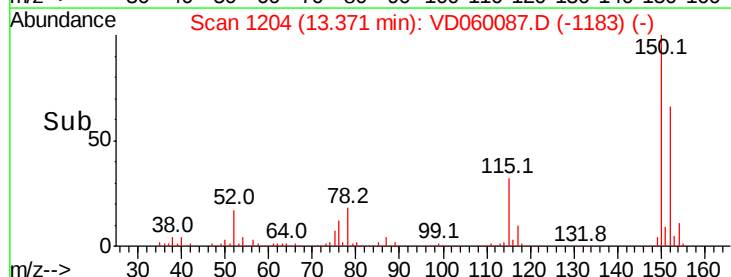
150 151.7 0.0 313.4

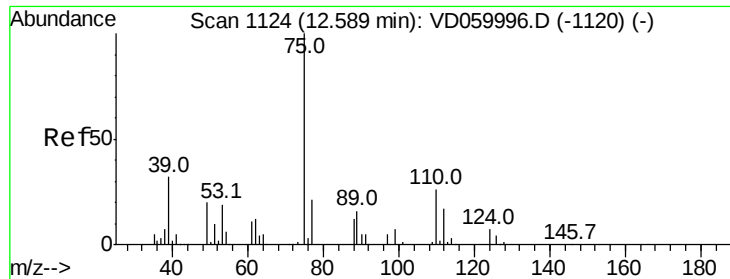


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 115.00 (114.70 to 115.70): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 22.777 ug/l

RT: 12.42 min Scan# 1107

Delta R.T. -0.17 min

Lab File: VD060087.D

Acq: 25 Sep 2018 12:12

Instrument :

MSVOA\_D

ClientSampleId :

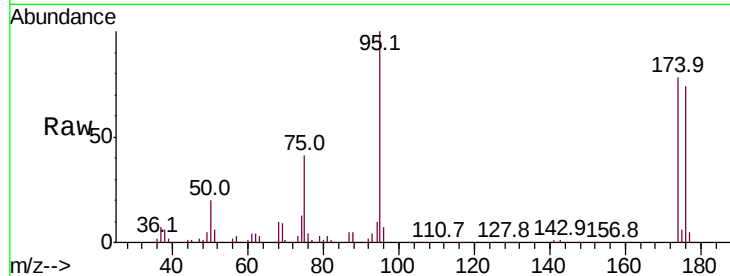
VD0925SBL01

Tot Ion: 75 Resp: 331896

Ion Ratio Lower Upper

75 100

77 1.4 16.4 49.4#



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC

12.42

250000

200000

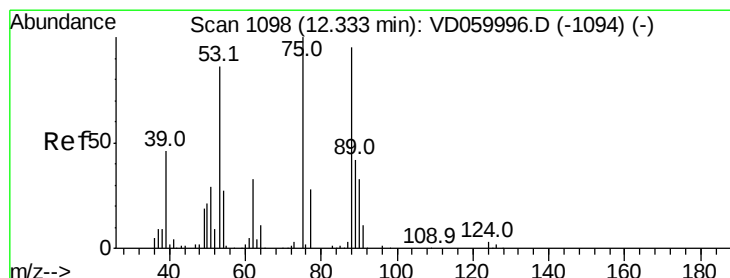
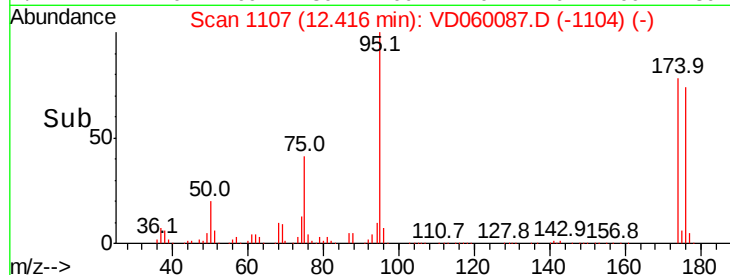
150000

100000

50000

0

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 86.467 ug/l

RT: 12.42 min Scan# 1107

Delta R.T. 0.08 min

Lab File: VD060087.D

Acq: 25 Sep 2018 12:12

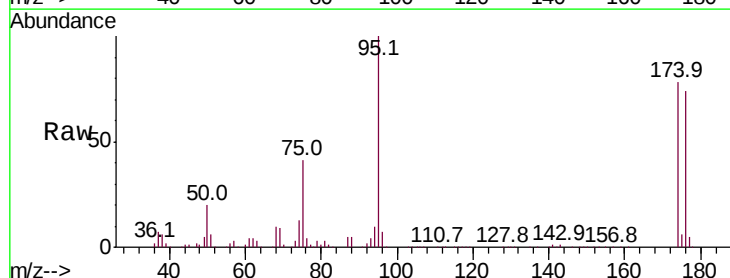
Tgt Ion: 75 Resp: 380342

Ion Ratio Lower Upper

75 100

53 0.0 68.4 102.6#

89 0.0 33.8 50.6#



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 89.00 (88.70 to 89.70): VDC

12.42

300000

200000

100000

0

Time-->

