

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_D\DATA\VD050919\  
 Data File : VD062192.D  
 Acq On : 9 May 2019 17:01  
 Operator : FY/SY  
 Sample : K2717-07  
 Misc : 4.67g/5mL/MSVOA\_D/SOIL  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 P026-SS002-0206-01

Quant Time: May 10 04:20:47 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D050719S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue May 07 14:26:29 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.02  | 168  | 699150   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.19  | 114  | 1074198  | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 12.36 | 117  | 742221   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 14.51 | 152  | 310059   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 7.43  | 65   | 394325   | 60.69 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 121.38% |          |
| 35) Dibromofluoromethane    | 6.90  | 113  | 500401   | 56.14 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 112.28% |          |
| 50) Toluene-d8              | 10.39 | 98   | 999343   | 46.50 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 93.00%  |          |
| 62) 4-Bromofluorobenzene    | 13.54 | 95   | 353586   | 40.97 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 81.94%  |          |

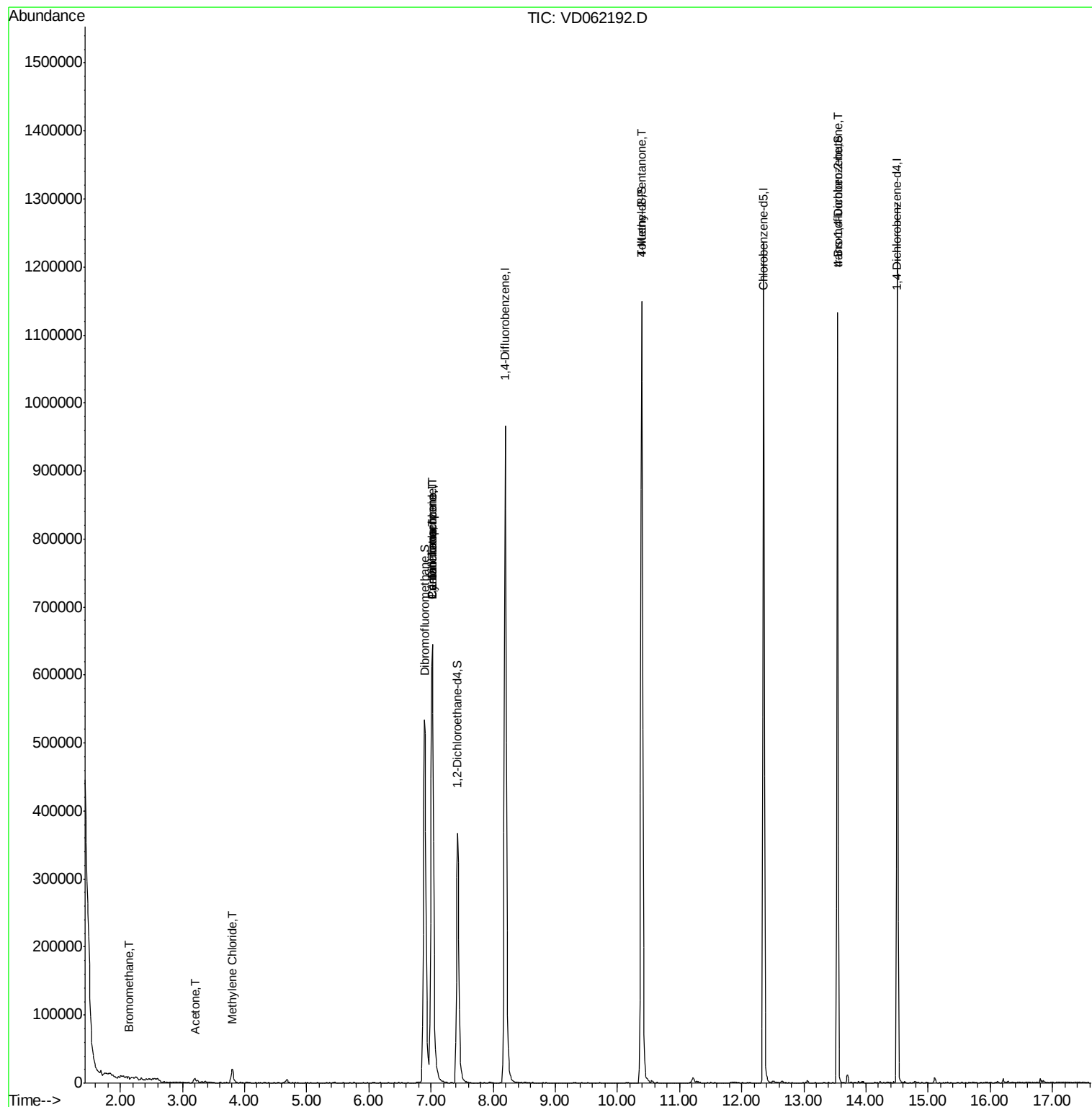
| Target Compounds               | R.T.  | QIon | Response | Conc    | Units  | Qvalue |
|--------------------------------|-------|------|----------|---------|--------|--------|
| 5) Bromomethane                | 2.13  | 94   | 2972     | 2.671   | ug/l # | 12     |
| 16) Acetone                    | 3.20  | 43   | 12693    | 9.316   | ug/l # | 84     |
| 20) Methylene Chloride         | 3.81  | 84   | 13966    | 2.455   | ug/l   | 89     |
| 31) Cyclohexane                | 7.02  | 56   | 13420    | 1.969   | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 7.02  | 75   | 51623    | 5.861   | ug/l # | 47     |
| 38) Carbon Tetrachloride       | 7.02  | 117  | 67174    | 5.510   | ug/l # | 15     |
| 51) 4-Methyl-2-Pentanone       | 10.39 | 43   | 5251     | 1.542   | ug/l # | 1      |
| 81) trans-1,4-Dichloro-2-buten | 13.54 | 75   | 142622   | 137.105 | ug/l # | 16     |

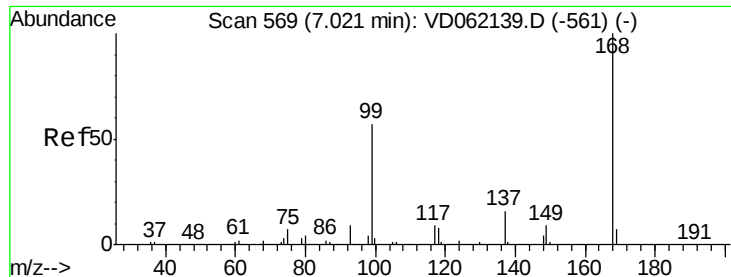
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_D\DATA\VD050919\  
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Quant Title : SW846 8260  
QLast Update : Tue May 07 14:26:29 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.02 min Scan# 569

Delta R.T. 0.00 min

Lab File: VD062192.D

Acq: 9 May 2019 17:01

Instrument :

MSVOA\_D

ClientSampleId :

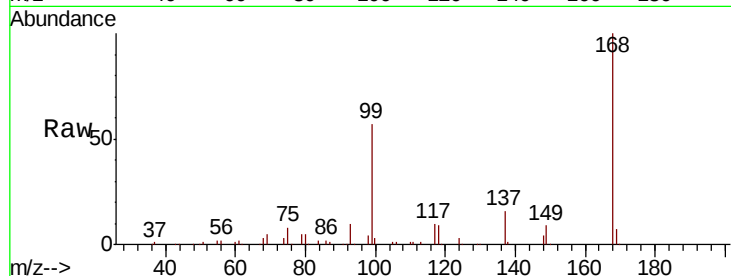
P026-SS002-0206-01

Tgt Ion:168 Resp: 699150

Ion Ratio Lower Upper

168 100

99 57.5 46.5 69.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

7.02

250000

200000

150000

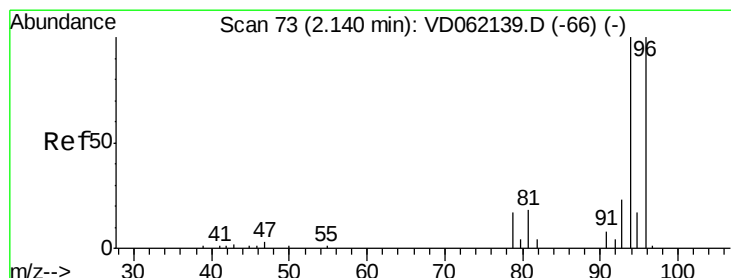
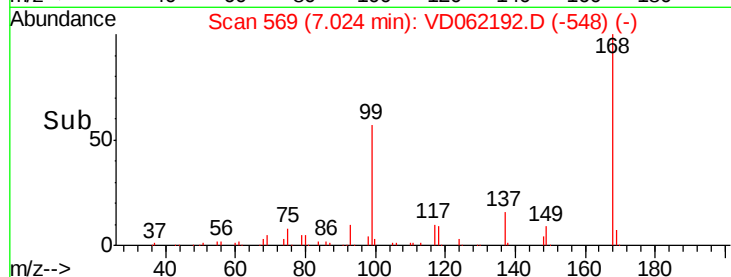
100000

50000

0

6.90 7.00 7.10 7.20

Time-->



#5

Bromomethane

Concen: 2.671 ug/l

RT: 2.13 min Scan# 72

Delta R.T. -0.01 min

Lab File: VD062192.D

Acq: 9 May 2019 17:01

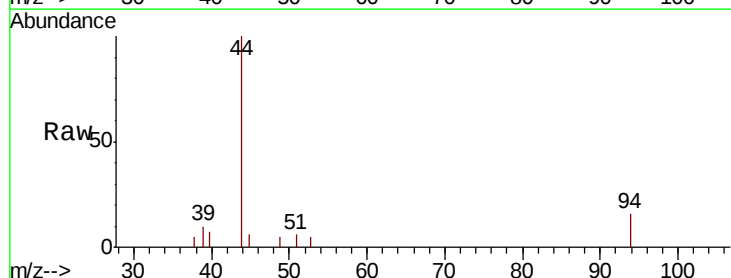
Tgt Ion: 94 Resp: 2972

Ion Ratio Lower Upper

94 100

96 0.0 76.6 115.0#

93 0.0 18.5 27.7#



Abundance Ion 94.00 (93.70 to 94.70): VDC

Ion 96.00 (95.70 to 96.70): VDC

Ion 93.00 (92.70 to 93.70): VDC

1200

1000

800

600

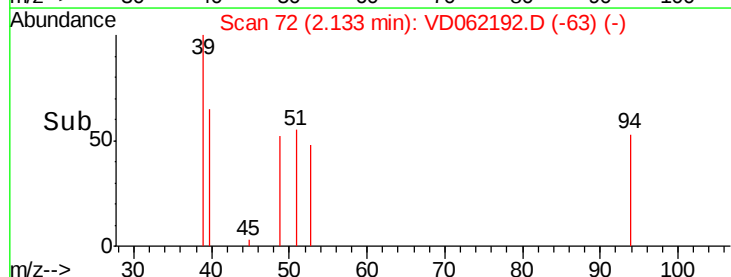
400

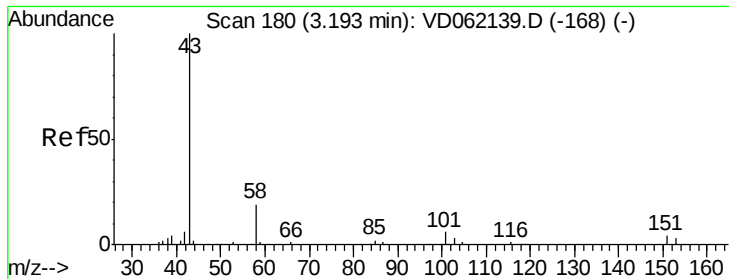
200

0

2.05 2.10 2.15

Time-->





#16

Acetone

Concen: 9.316 ug/l

RT: 3.20 min Scan# 180

Delta R.T. 0.00 min

Lab File: VD062192.D

Acq: 9 May 2019 17:01

Instrument :

MSVOA\_D

ClientSampleId :

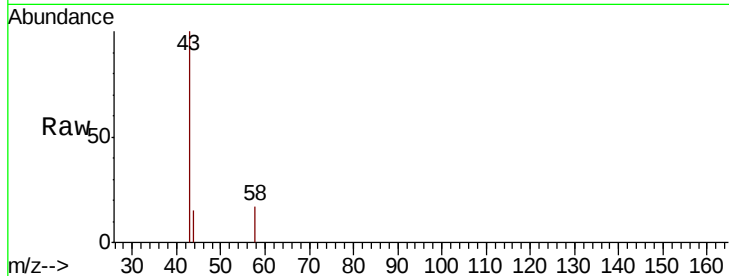
P026-SS002-0206-01

Tgt Ion: 43 Resp: 12693

Ion Ratio Lower Upper

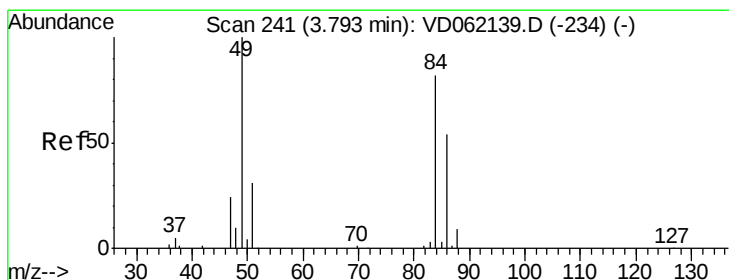
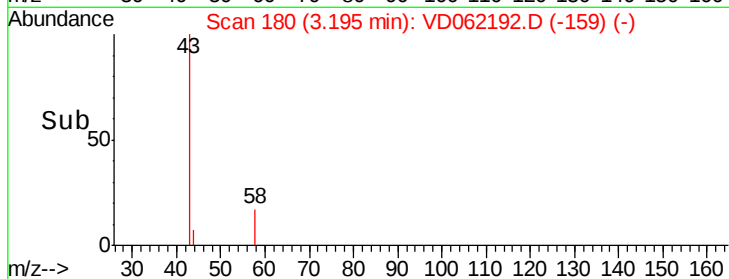
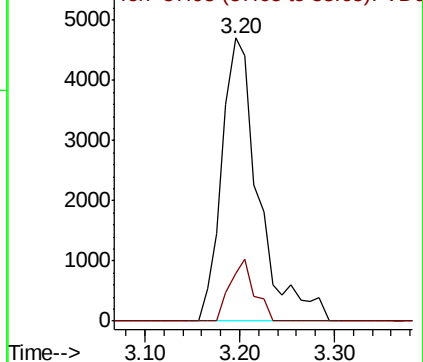
43 100

58 16.9 19.9 29.9#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#20

Methylene Chloride

Concen: 2.455 ug/l

RT: 3.81 min Scan# 242

Delta R.T. 0.01 min

Lab File: VD062192.D

Acq: 9 May 2019 17:01

Tgt Ion: 84 Resp: 13966

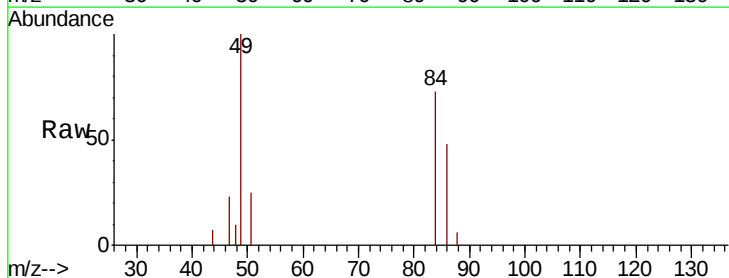
Ion Ratio Lower Upper

84 100

49 136.2 94.0 141.0

51 33.7 29.0 43.4

86 65.9 49.8 74.6

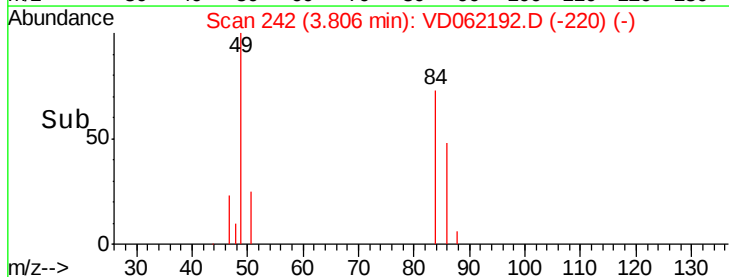
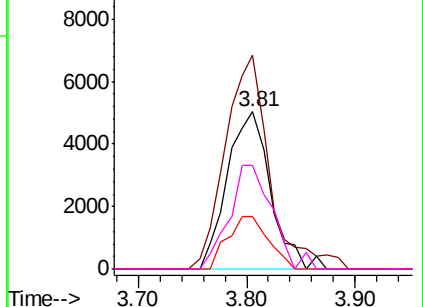


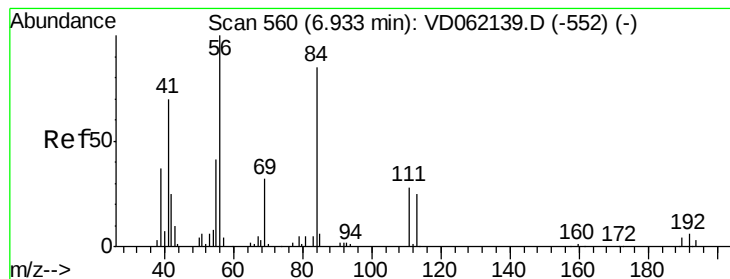
Abundance Ion 83.95 (83.65 to 84.65): VDC

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





#31

Cyclohexane

Concen: 1.969 ug/l

RT: 7.02 min Scan# 569

Delta R.T. 0.09 min

Lab File: VD062192.D

Acq: 9 May 2019 17:01

Instrument :

MSVOA\_D

ClientSampleId :

P026-SS002-0206-01

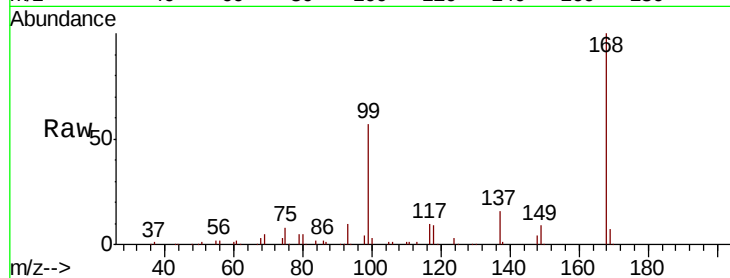
Tgt Ion: 56 Resp: 13420

Ion Ratio Lower Upper

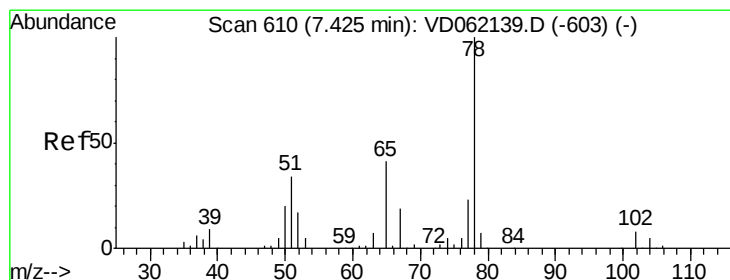
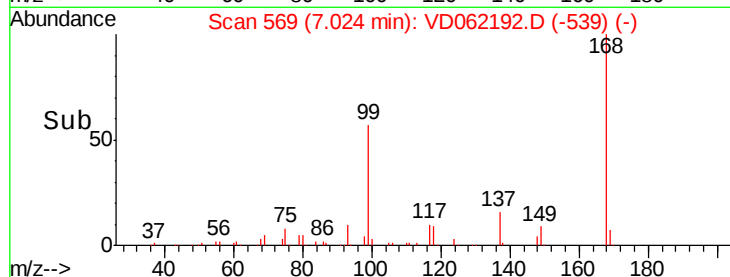
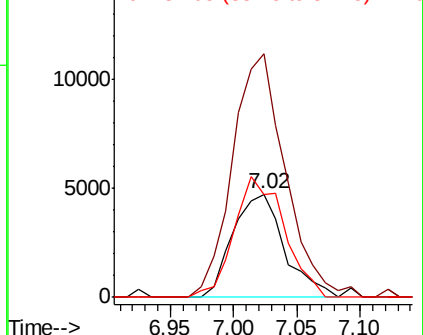
56 100

69 236.3 25.8 38.6#

84 99.3 72.2 108.4



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: 60.691 ug/l

RT: 7.43 min Scan# 610

Delta R.T. 0.00 min

Lab File: VD062192.D

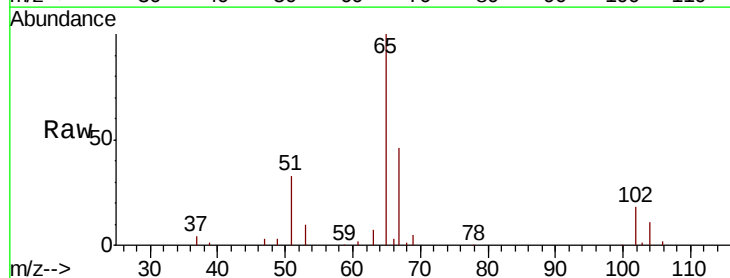
Acq: 9 May 2019 17:01

Tgt Ion: 65 Resp: 394325

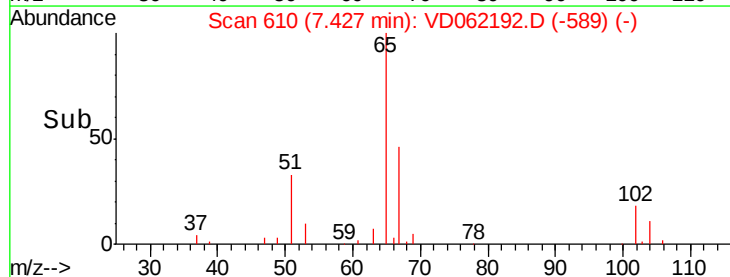
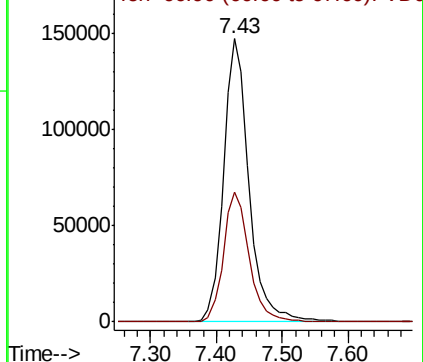
Ion Ratio Lower Upper

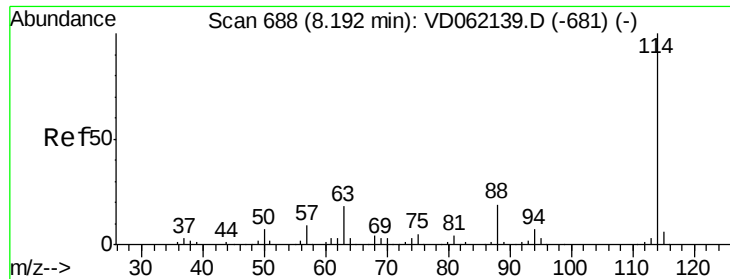
65 100

67 46.0 0.0 98.0



Abundance Ion 64.95 (64.65 to 65.65): VDC  
Ion 66.90 (66.60 to 67.60): VDC

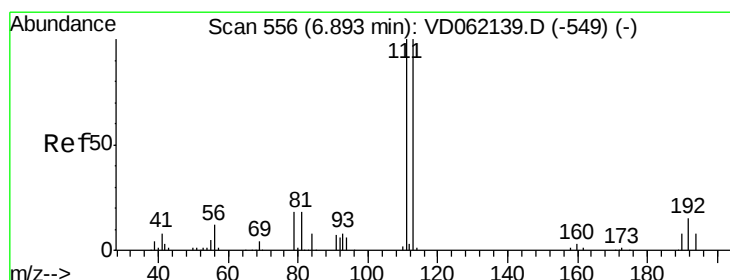
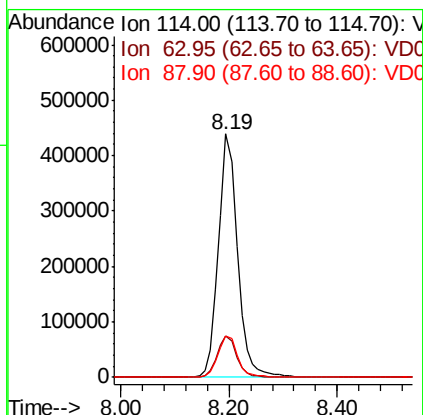
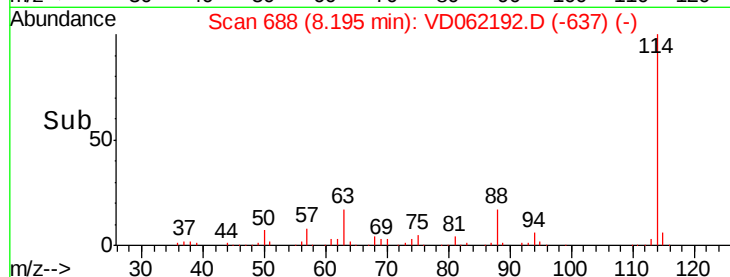
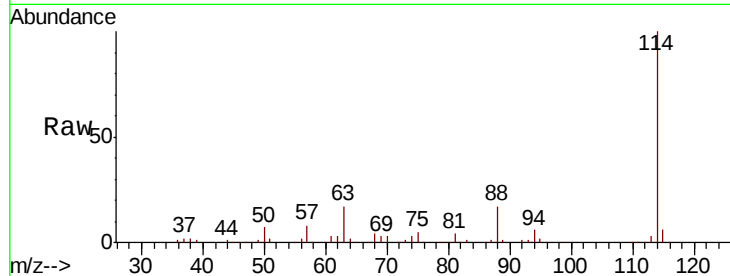




#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.19 min Scan# 688  
 Delta R.T. 0.00 min  
 Lab File: VD062192.D  
 Acq: 9 May 2019 17:01

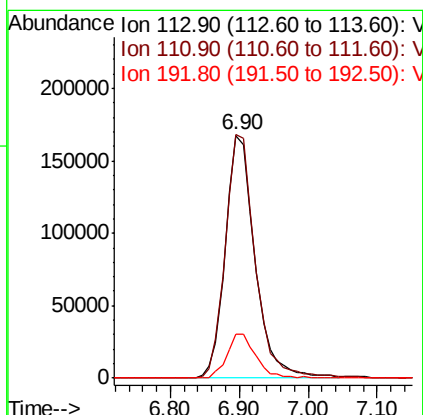
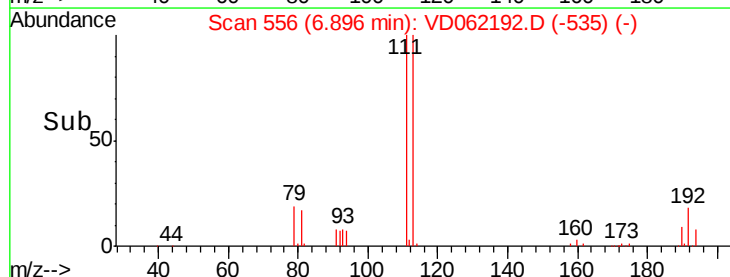
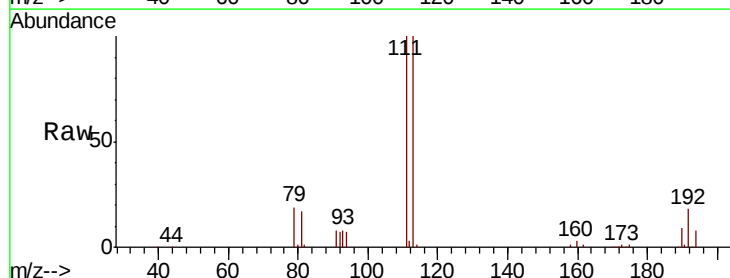
Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 P026-SS002-0206-01

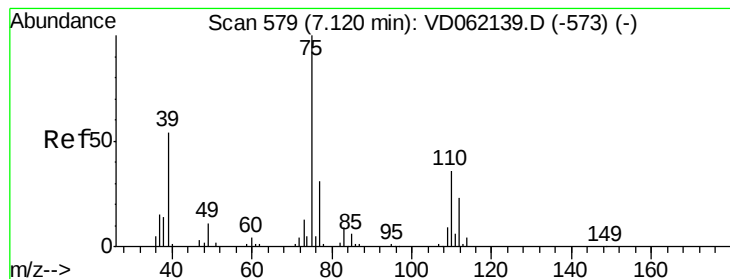
Tgt Ion:114 Resp: 1074198  
 Ion Ratio Lower Upper  
 114 100  
 63 17.0 0.0 32.4  
 88 17.2 0.0 33.6



#35  
 Dibromofluoromethane  
 Concen: 56.144 ug/l  
 RT: 6.90 min Scan# 556  
 Delta R.T. 0.00 min  
 Lab File: VD062192.D  
 Acq: 9 May 2019 17:01

Tgt Ion:113 Resp: 500401  
 Ion Ratio Lower Upper  
 113 100  
 111 100.2 78.5 117.7  
 192 18.0 13.0 19.4





#36

1,1-Dichloropropene

Concen: 5.861 ug/l

RT: 7.02 min Scan# 569

Delta R.T. -0.10 min

Lab File: VD062192.D

Acq: 9 May 2019 17:01

Instrument :

MSVOA\_D

ClientSampleId :

P026-SS002-0206-01

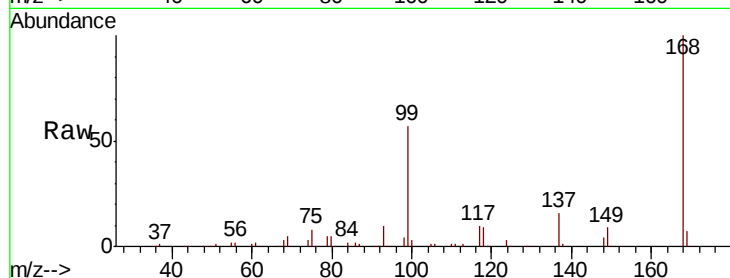
Tgt Ion: 75 Resp: 51623

Ion Ratio Lower Upper

75 100

110 7.9 19.1 57.1#

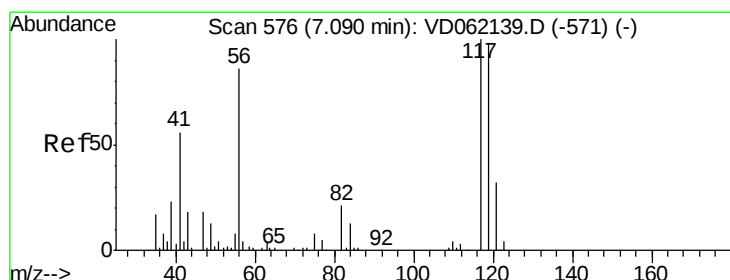
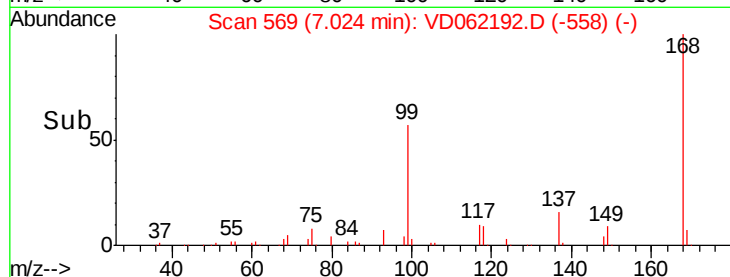
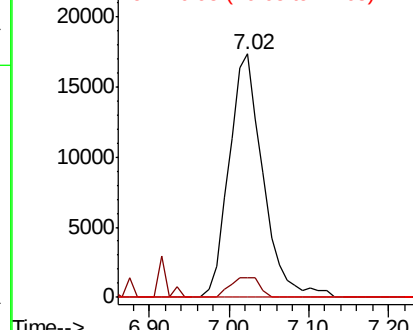
77 0.0 25.6 38.4#



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: 5.510 ug/l

RT: 7.02 min Scan# 569

Delta R.T. -0.07 min

Lab File: VD062192.D

Acq: 9 May 2019 17:01

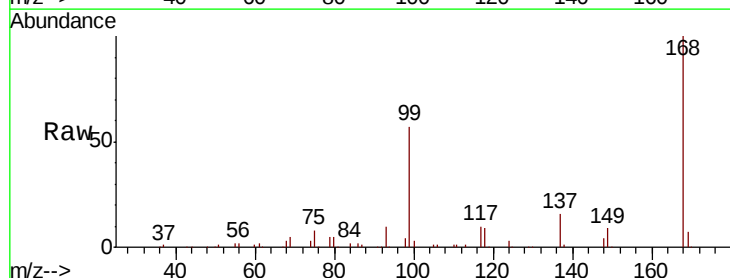
Tgt Ion: 117 Resp: 67174

Ion Ratio Lower Upper

117 100

119 3.9 75.8 113.8#

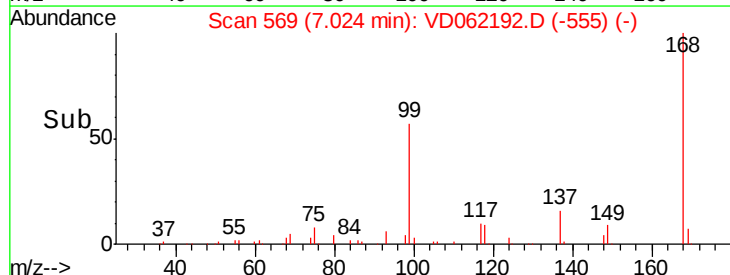
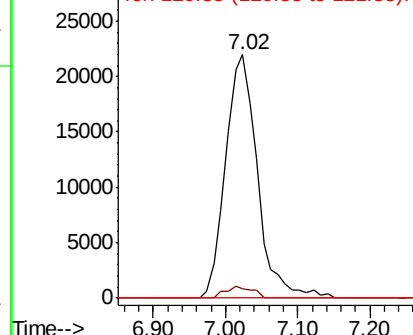
121 0.0 25.9 38.9#

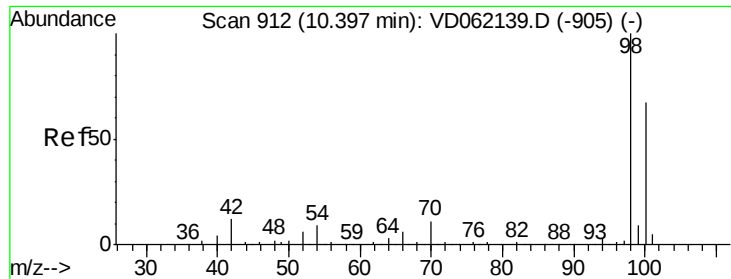


Abundance Ion 116.85 (116.55 to 117.55): V

Ion 118.85 (118.55 to 119.55): V

Ion 120.85 (120.55 to 121.55): V

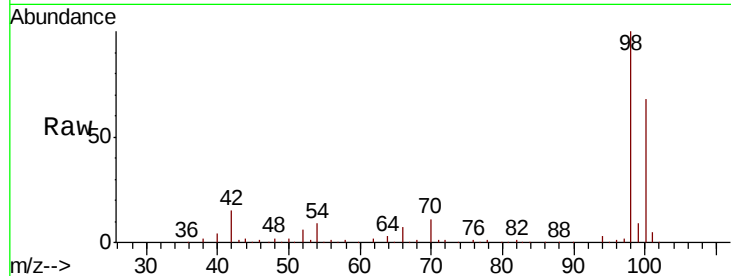




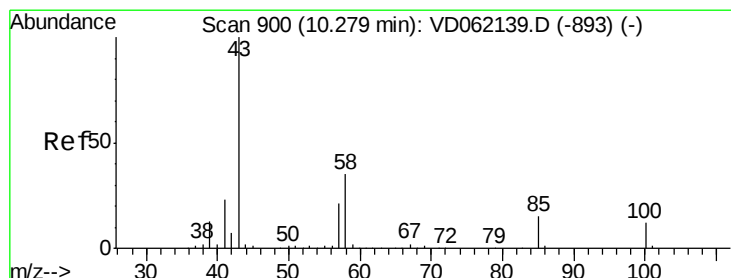
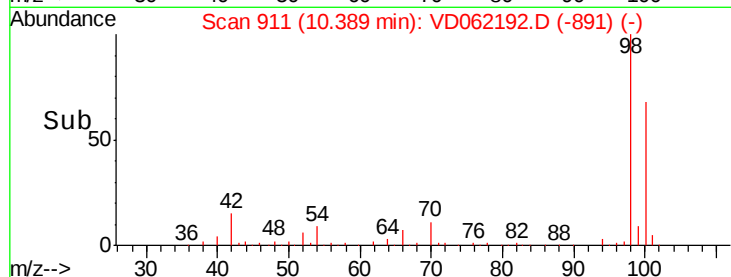
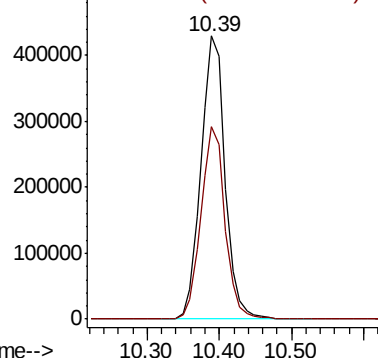
#50  
Toluene-d8  
Concen: 46.504 ug/l  
RT: 10.39 min Scan# 911  
Delta R.T. -0.01 min  
Lab File: VD062192.D  
Acq: 9 May 2019 17:01

Instrument :  
MSVOA\_D  
ClientSampleId :  
P026-SS002-0206-01

Tgt Ion: 98 Resp: 999343  
Ion Ratio Lower Upper  
98 100  
100 68.2 53.8 80.8

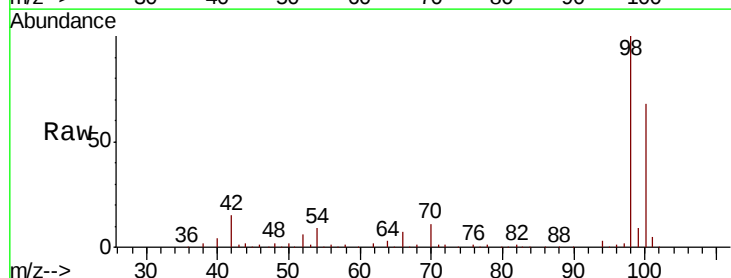


Abundance Ion 98.05 (97.75 to 98.75): VD062139.D (-905) (-)  
Ion 100.05 (99.75 to 100.75): VD062139.D (-905) (-)

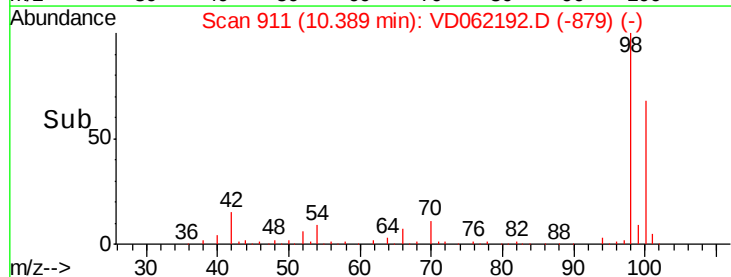
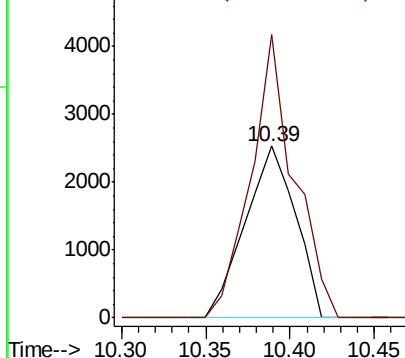


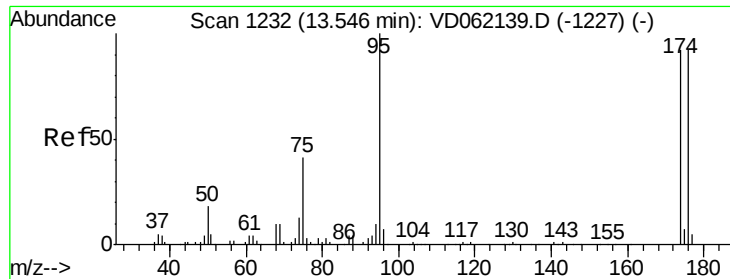
#51  
4-Methyl-2-Pentanone  
Concen: 1.542 ug/l  
RT: 10.39 min Scan# 911  
Delta R.T. 0.11 min  
Lab File: VD062192.D  
Acq: 9 May 2019 17:01

Tgt Ion: 43 Resp: 5251  
Ion Ratio Lower Upper  
43 100  
58 164.8 30.4 45.6#



Abundance Ion 42.95 (42.65 to 43.65): VD062139.D (-893) (-)  
Ion 57.95 (57.65 to 58.65): VD062139.D (-893) (-)





#62

4-Bromofluorobenzene

Concen: 40.975 ug/l

RT: 13.54 min Scan# 1231

Delta R.T. -0.01 min

Lab File: VD062192.D

Acq: 9 May 2019 17:01

Instrument :

MSVOA\_D

ClientSampleId :

P026-SS002-0206-01

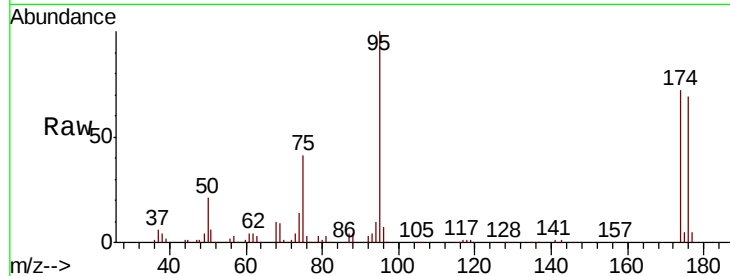
Tgt Ion: 95 Resp: 353586

Ion Ratio Lower Upper

95 100

174 72.2 0.0 181.8

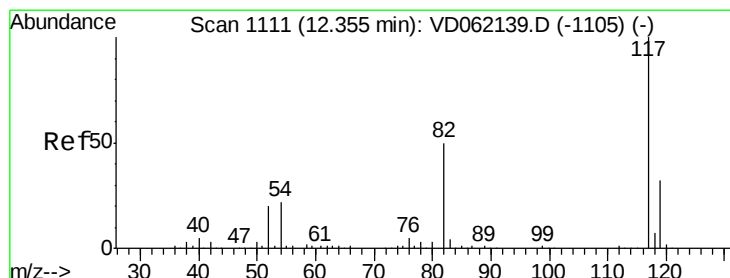
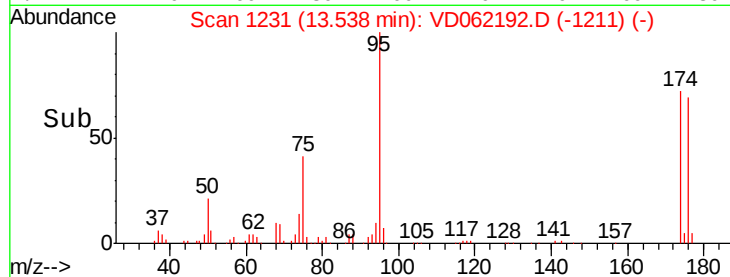
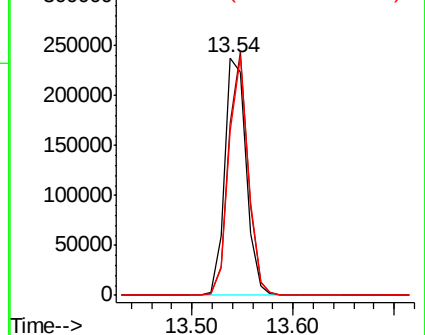
176 69.5 0.0 174.4



Abundance Ion 95.00 (94.70 to 95.70): V

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: 12.36 min Scan# 1111

Delta R.T. 0.00 min

Lab File: VD062192.D

Acq: 9 May 2019 17:01

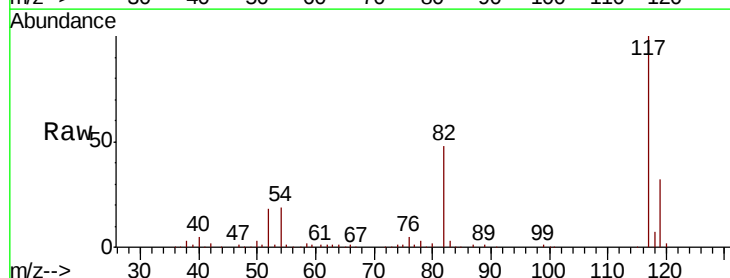
Tgt Ion: 117 Resp: 742221

Ion Ratio Lower Upper

117 100

82 48.0 36.2 54.2

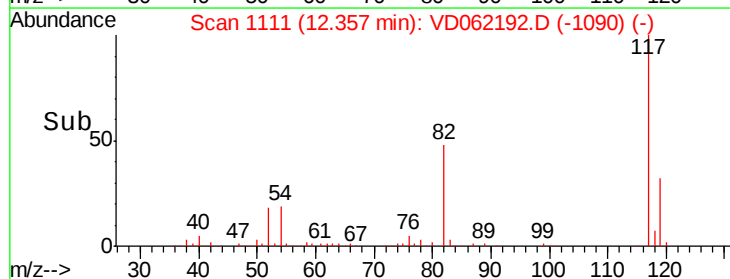
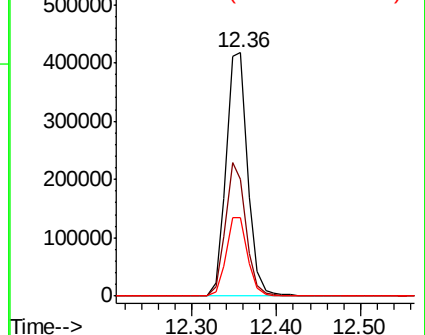
119 32.0 26.2 39.4

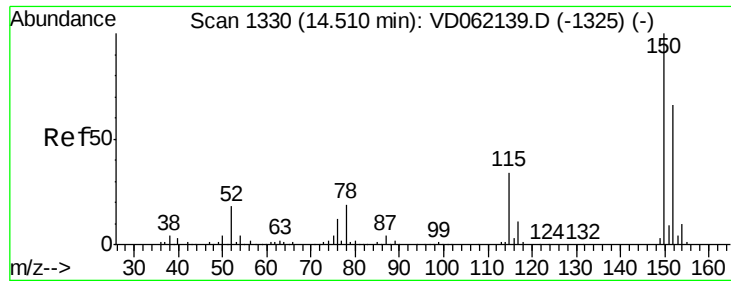


Abundance Ion 116.95 (116.65 to 117.65): V

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: 14.51 min Scan# 1330

Delta R.T. 0.00 min

Lab File: VD062192.D

Acq: 9 May 2019 17:01

Instrument :

MSVOA\_D

ClientSampleId :

P026-SS002-0206-01

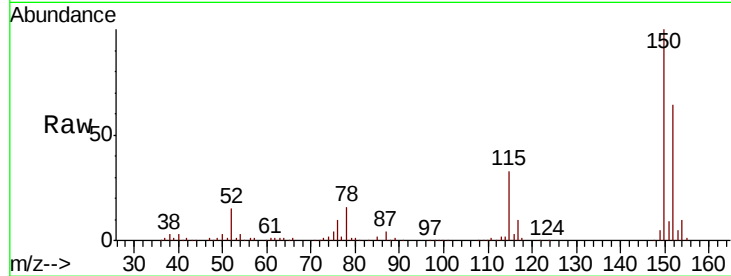
Tgt Ion: 152 Resp: 310059

Ion Ratio Lower Upper

152 100

115 51.6 30.9 92.7

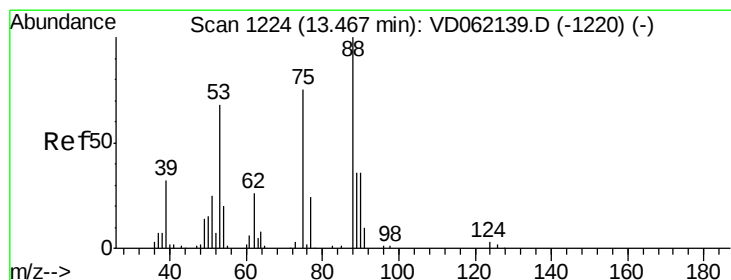
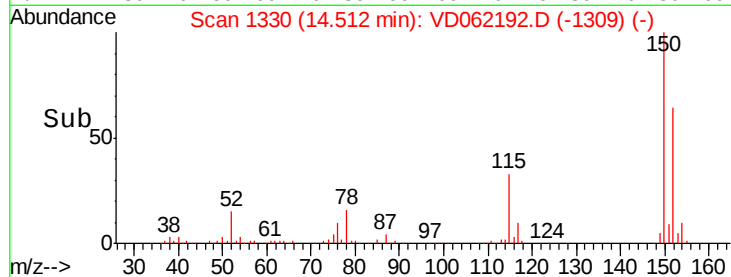
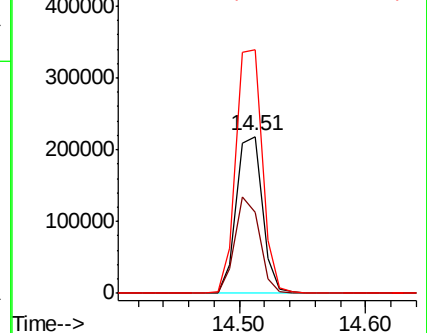
150 155.4 0.0 314.8



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



#81

trans-1,4-Dichloro-2-butene

Concen: 137.105 ug/l

RT: 13.54 min Scan# 1231

Delta R.T. 0.07 min

Lab File: VD062192.D

Acq: 9 May 2019 17:01

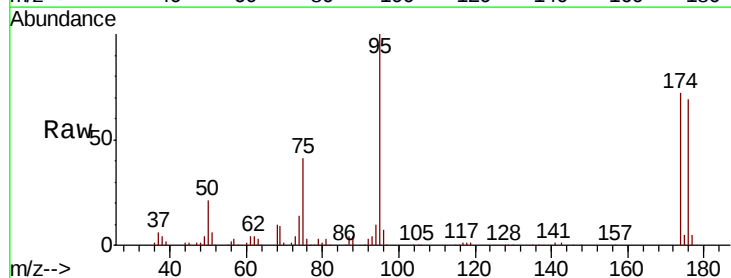
Tgt Ion: 75 Resp: 142622

Ion Ratio Lower Upper

75 100

53 0.0 65.8 98.8#

89 0.0 35.0 52.6#



Abundance Ion 75.00 (74.70 to 75.70): V

Ion 53.00 (52.70 to 53.70): V

Ion 89.00 (88.70 to 89.70): V

