

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD051719\  
 Data File : VD062440.D  
 Acq On : 17 May 2019 15:39  
 Operator : FY/SY  
 Sample : K2648-01  
 Misc : 6.06g/5mL/MSVOA D/SOIL  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 TR-05-051619

Quant Time: May 18 00:04:46 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      | 7.05  | 168  | 475020   | 50.00 | ug/l  | 0.03     |
| 34) 1,4-Difluorobenzene    | 8.22  | 114  | 647120   | 50.00 | ug/l  | 0.03     |
| 63) Chlorobenzene-d5       | 12.38 | 117  | 446102   | 50.00 | ug/l  | 0.02     |
| 72) 1,4-Dichlorobenzene-d4 | 14.52 | 152  | 134011   | 50.00 | ug/l  | 0.01     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|-------|--------|----------|
| 33) 1,2-Dichloroethane-d4   | 7.46  | 65   | 180438   | 40.87 | ug/l   | 0.03     |
| Spiked Amount               |       |      | Recovery | =     | 81.74% |          |
| 35) Dibromofluoromethane    | 6.92  | 113  | 223112   | 41.55 | ug/l   | 0.03     |
| Spiked Amount               |       |      | Recovery | =     | 83.10% |          |
| 50) Toluene-d8              | 10.42 | 98   | 363063   | 28.05 | ug/l   | 0.02     |
| Spiked Amount               |       |      | Recovery | =     | 56.10% |          |
| 62) 4-Bromofluorobenzene    | 13.56 | 95   | 126491   | 24.33 | ug/l   | 0.01     |
| Spiked Amount               |       |      | Recovery | =     | 48.66% |          |

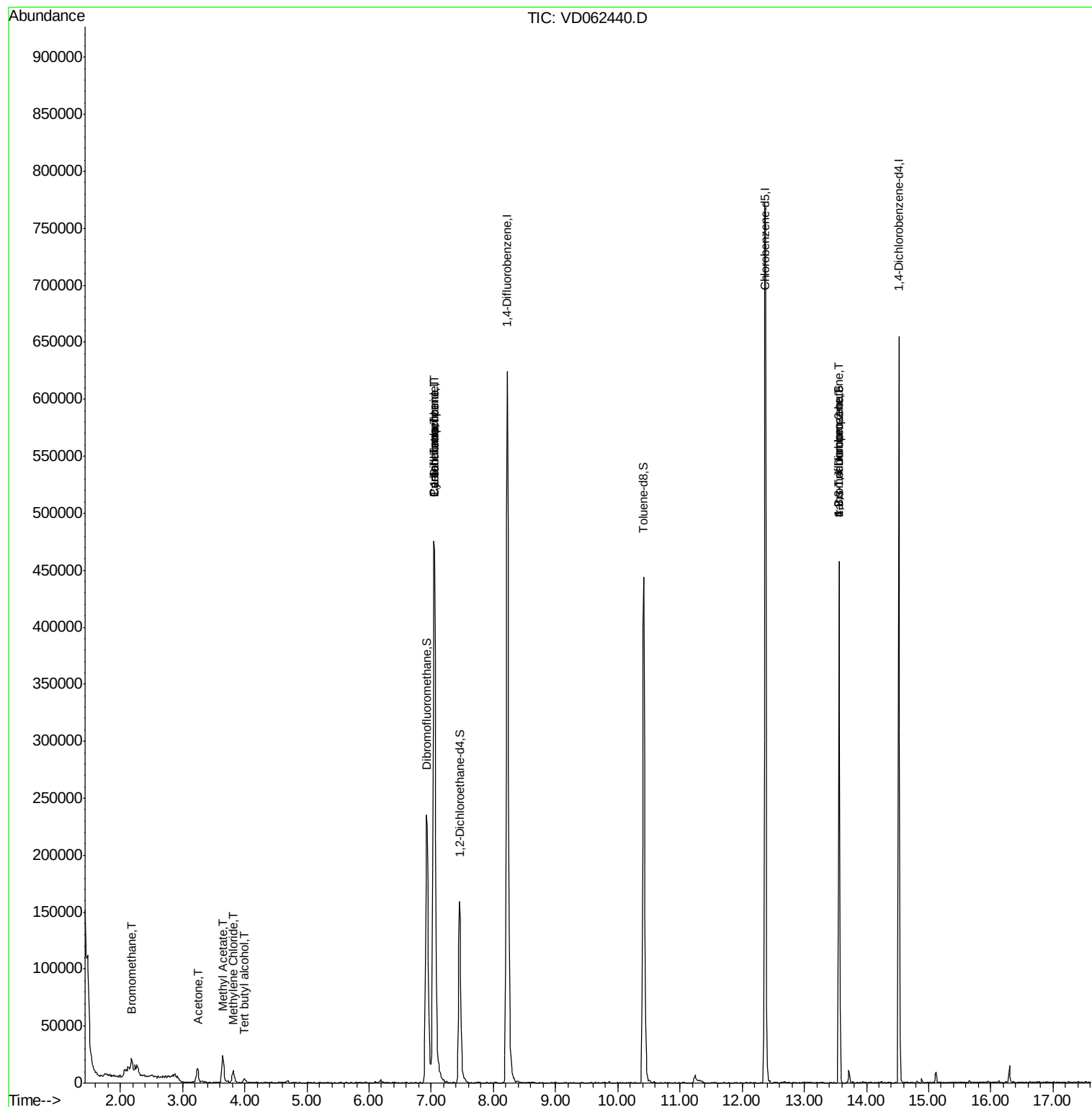
| Target Compounds               | R.T.  | QIon | Response | Conc    | Units  | Qvalue |
|--------------------------------|-------|------|----------|---------|--------|--------|
| 5) Bromomethane                | 2.17  | 94   | 1599     | 2.115   | ug/l # | 12     |
| 11) Tert butyl alcohol         | 4.00  | 59   | 2476     | 10.988  | ug/l # | 76     |
| 16) Acetone                    | 3.23  | 43   | 18894    | 20.409  | ug/l # | 86     |
| 18) Methyl Acetate             | 3.65  | 43   | 40297    | 24.182  | ug/l # | 90     |
| 20) Methylene Chloride         | 3.81  | 84   | 6562     | 1.698   | ug/l # | 82     |
| 31) Cyclohexane                | 7.04  | 56   | 10031    | 2.166   | ug/l # | 5      |
| 36) 1,1-Dichloropropene        | 7.04  | 75   | 38587    | 7.273   | ug/l # | 47     |
| 38) Carbon Tetrachloride       | 7.04  | 117  | 49767    | 6.777   | ug/l # | 16     |
| 76) 1,2,3-Trichloropropane     | 13.56 | 75   | 43643    | 27.403  | ug/l # | 43     |
| 81) trans-1,4-Dichloro-2-buten | 13.56 | 75   | 55868    | 124.261 | ug/l # | 16     |

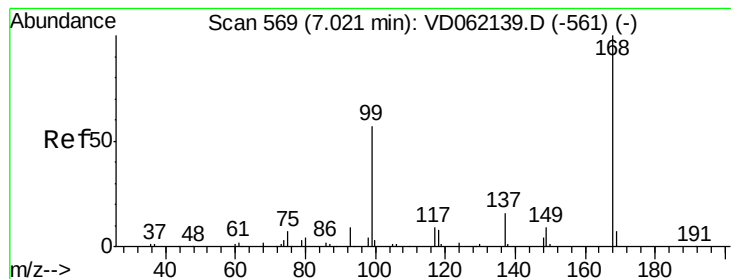
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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TR-05-051619

Quant Time: May 18 00:04:46 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_D\METHOD\82D050719S.M  
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: 7.05 min Scan# 572

Delta R.T. 0.03 min

Lab File: VD062440.D

Acq: 17 May 2019 15:39

Instrument :

MSVOA\_D

ClientSampleId :

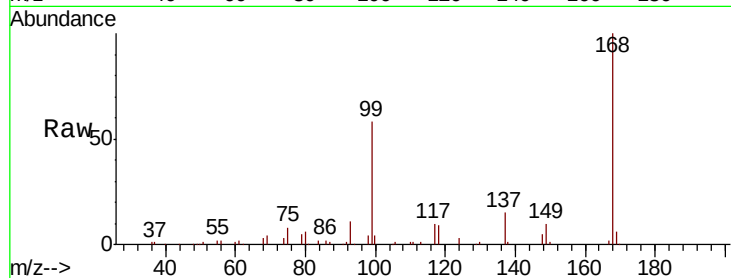
TR-05-051619

Tot Ion:168 Resp: 475020

Ion Ratio Lower Upper

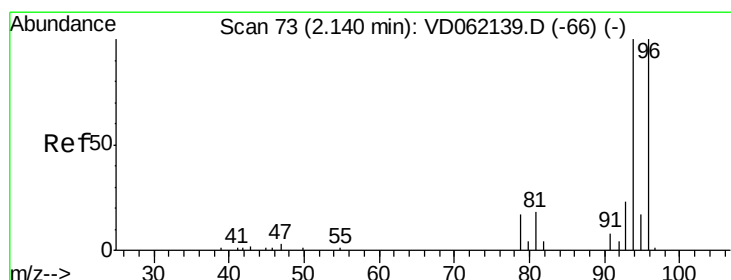
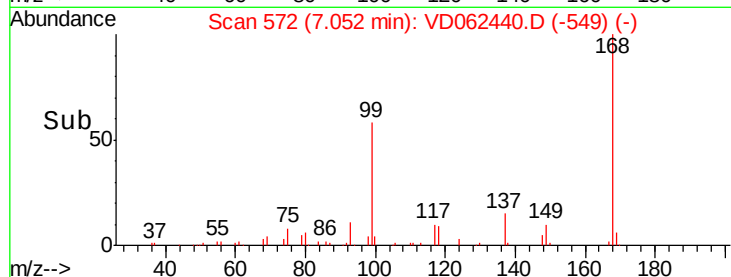
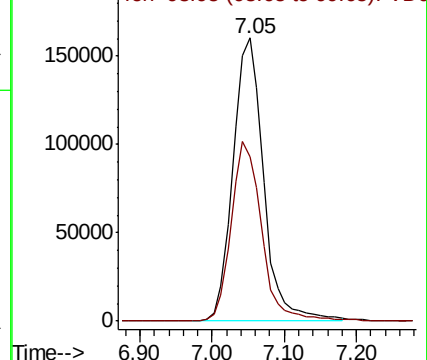
168 100

99 58.2 46.5 69.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#5

Bromomethane

Concen: 2.115 ug/l

RT: 2.17 min Scan# 76

Delta R.T. 0.03 min

Lab File: VD062440.D

Acq: 17 May 2019 15:39

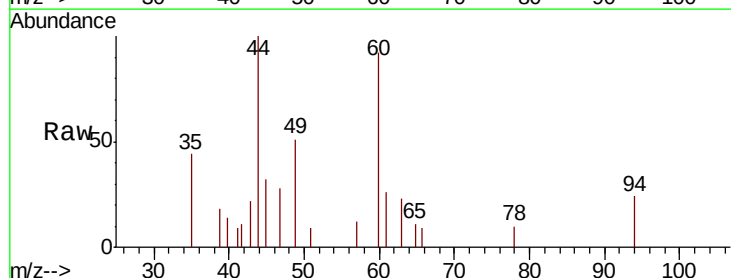
Tgt Ion: 94 Resp: 1599

Ion Ratio Lower Upper

94 100

96 0.0 76.6 115.0#

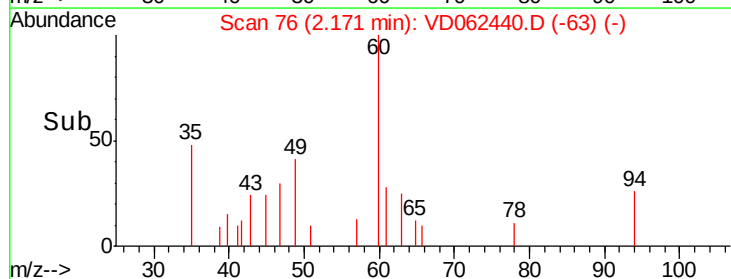
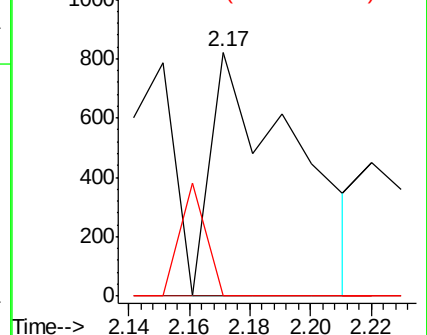
93 0.0 18.5 27.7#

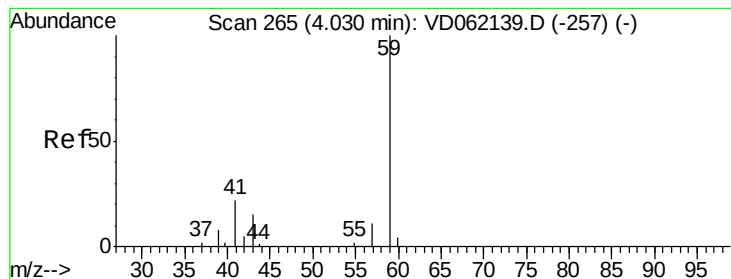


Abundance Ion 94.00 (93.70 to 94.70): VDC

Ion 96.00 (95.70 to 96.70): VDC

Ion 93.00 (92.70 to 93.70): VDC



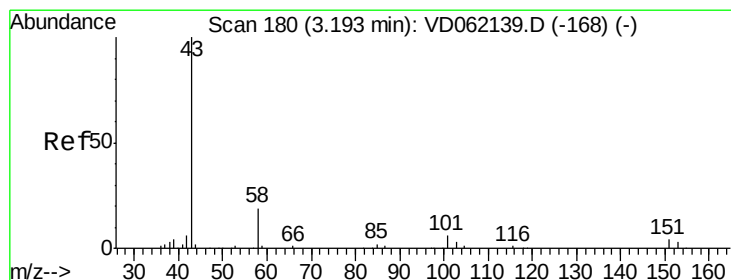
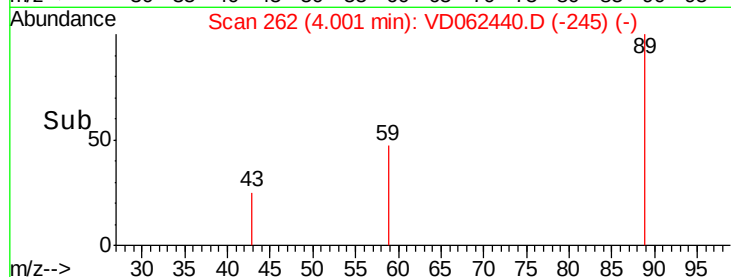
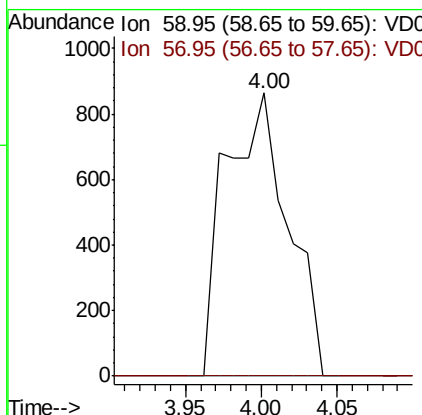
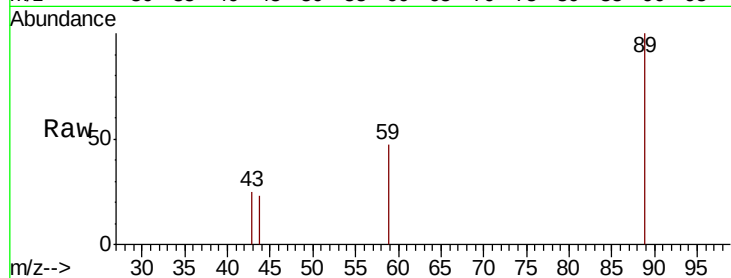


#11

Tert butyl alcohol  
 Concen: 10.988 ug/l  
 RT: 4.00 min Scan# 262  
 Delta R.T. -0.03 min  
 Lab File: VD062440.D  
 Acq: 17 May 2019 15:39

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 TR-05-051619

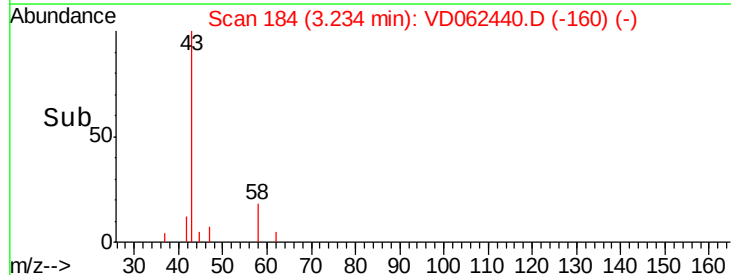
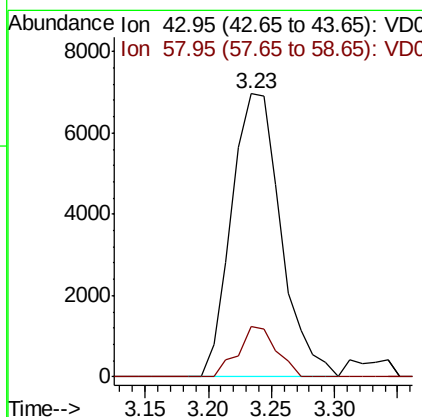
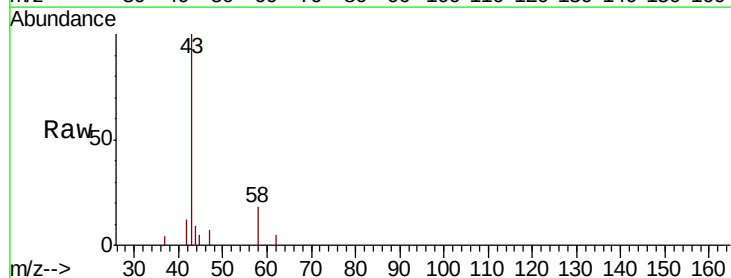
Tot Ion: 59 Resp: 2476  
 Ion Ratio Lower Upper  
 59 100  
 57 0.0 6.9 10.3#

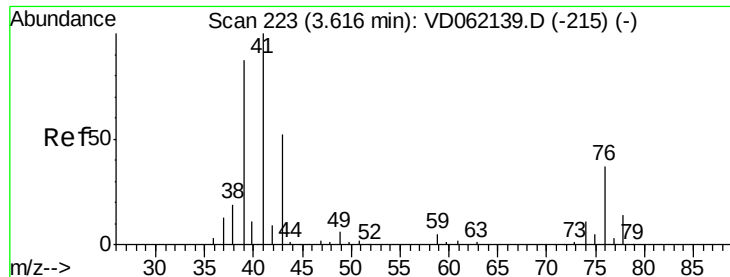


#16

Acetone  
 Concen: 20.409 ug/l  
 RT: 3.23 min Scan# 184  
 Delta R.T. 0.04 min  
 Lab File: VD062440.D  
 Acq: 17 May 2019 15:39

Tgt Ion: 43 Resp: 18894  
 Ion Ratio Lower Upper  
 43 100  
 58 17.7 19.9 29.9#





#18

Methyl Acetate

Concen: 24.182 ug/l

RT: 3.65 min Scan# 226

Delta R.T. 0.03 min

Lab File: VD062440.D

Acq: 17 May 2019 15:39

Instrument :

MSVOA\_D

ClientSampleId :

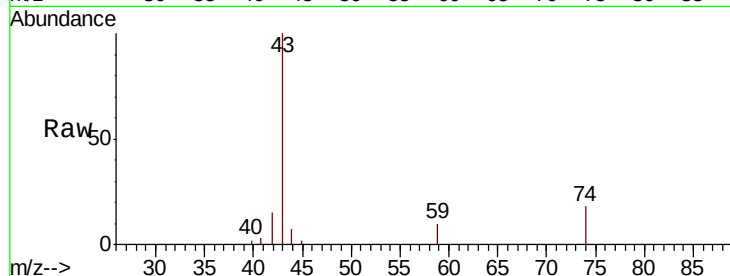
TR-05-051619

Tot Ion: 43 Resp: 40297

Ion Ratio Lower Upper

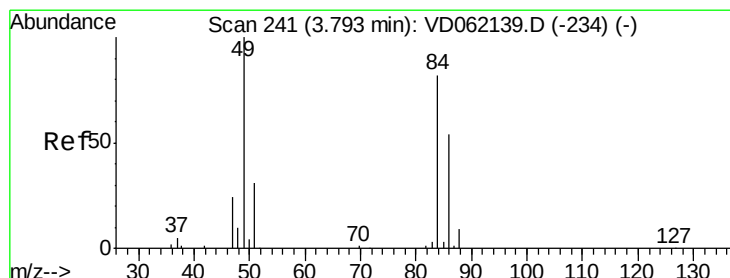
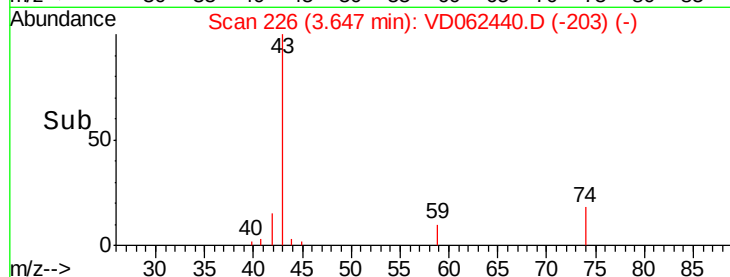
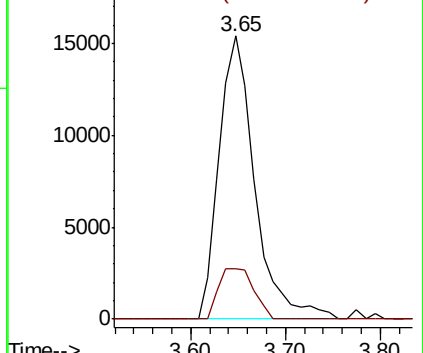
43 100

74 17.8 18.0 27.0#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 74.00 (73.70 to 74.70): VDC



#20

Methylene Chloride

Concen: 1.698 ug/l

RT: 3.81 min Scan# 243

Delta R.T. 0.02 min

Lab File: VD062440.D

Acq: 17 May 2019 15:39

Tgt Ion: 84 Resp: 6562

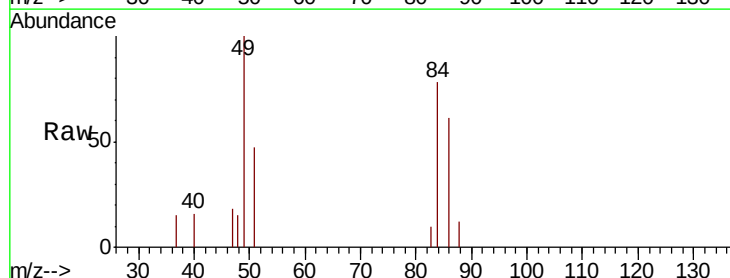
Ion Ratio Lower Upper

84 100

49 127.5 94.0 141.0

51 60.4 29.0 43.4#

86 77.7 49.8 74.6#

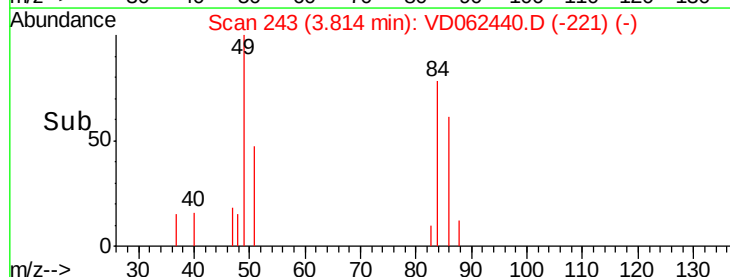
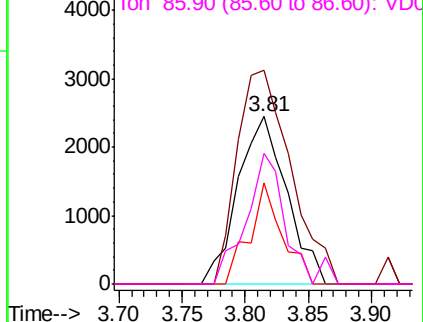


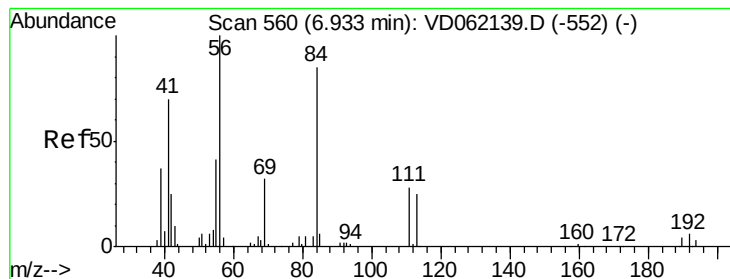
Abundance Ion 83.95 (83.65 to 84.65): VDC

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: 2.166 ug/l

RT: 7.04 min Scan# 571

Delta R.T. 0.11 min

Lab File: VD062440.D

Acq: 17 May 2019 15:39

Instrument :

MSVOA\_D

ClientSampleId :

TR-05-051619

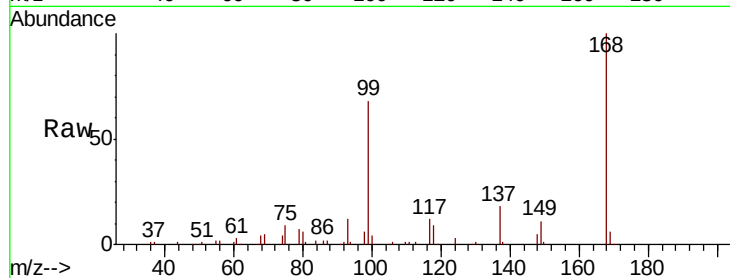
Tot Ion: 56 Resp: 10031

Ion Ratio Lower Upper

56 100

69 230.3 25.8 38.6#

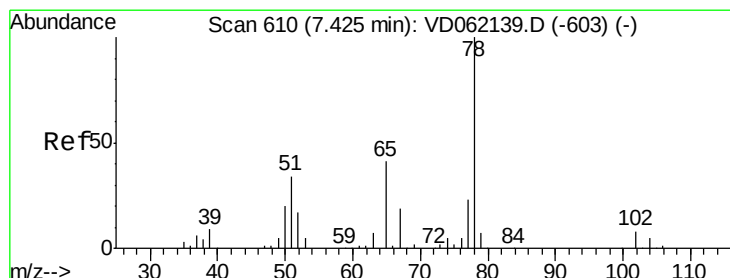
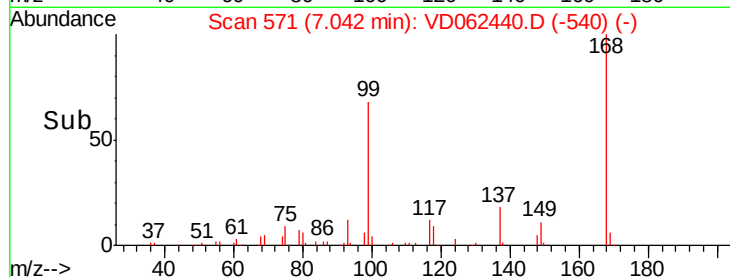
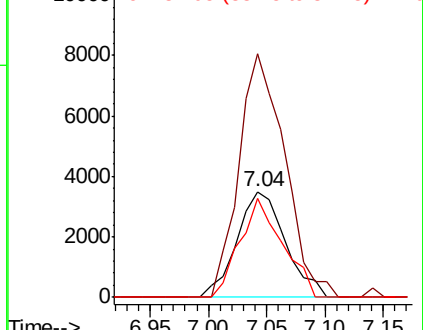
84 93.3 72.2 108.4



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: 40.875 ug/l

RT: 7.46 min Scan# 613

Delta R.T. 0.03 min

Lab File: VD062440.D

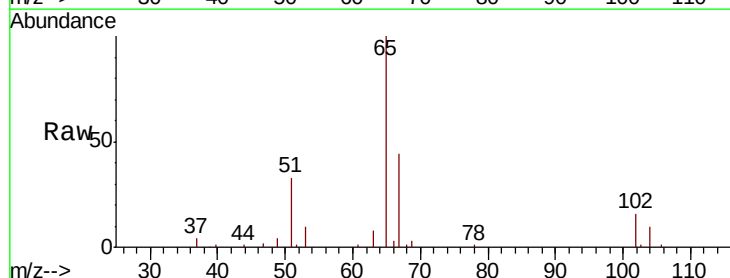
Acq: 17 May 2019 15:39

Tgt Ion: 65 Resp: 180438

Ion Ratio Lower Upper

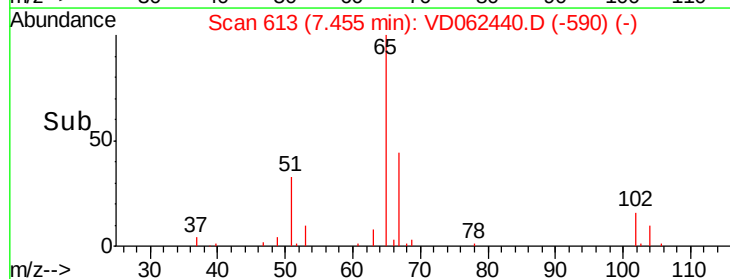
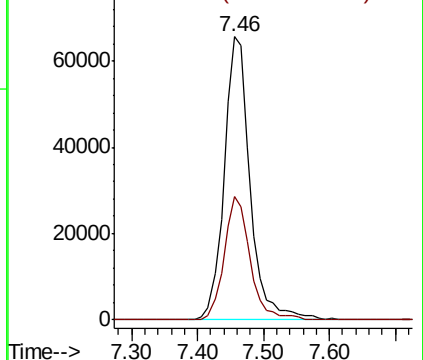
65 100

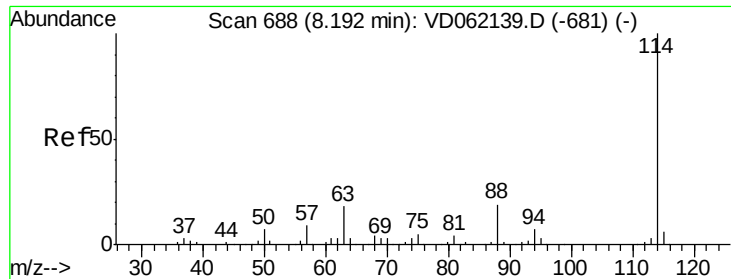
67 43.7 0.0 98.0



Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC

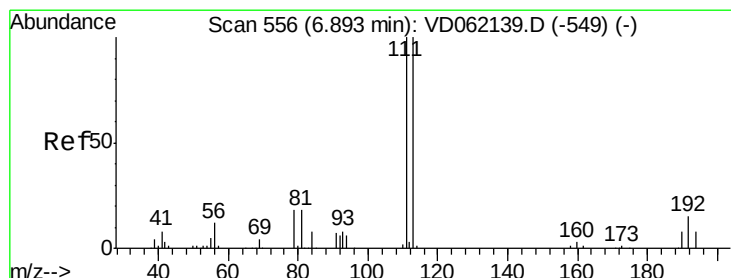
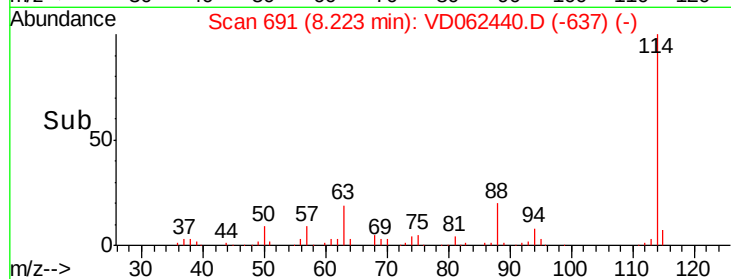
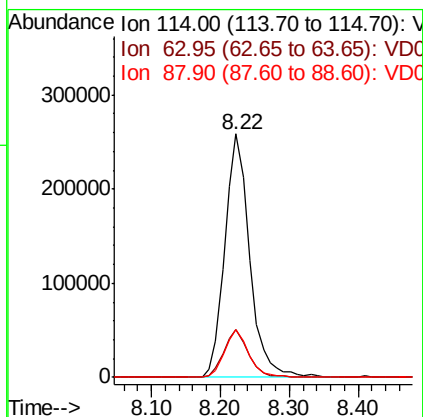
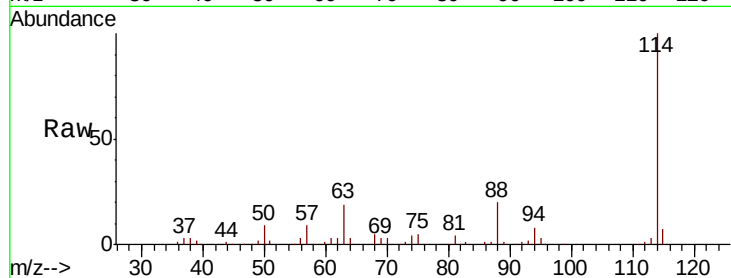




#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.22 min Scan# 691  
 Delta R.T. 0.03 min  
 Lab File: VD062440.D  
 Acq: 17 May 2019 15:39

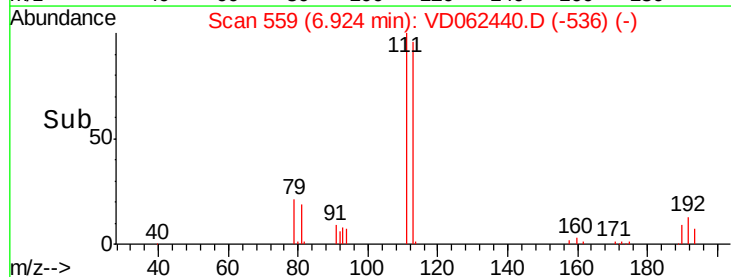
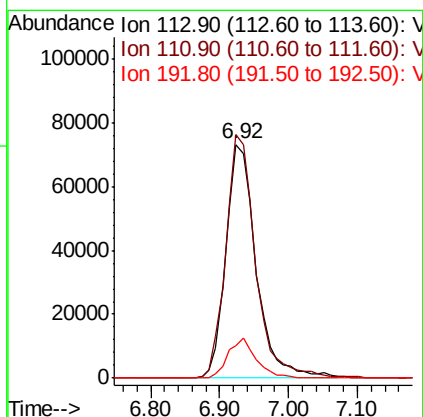
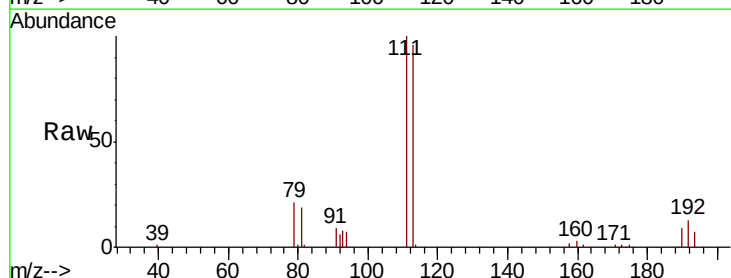
Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 TR-05-051619

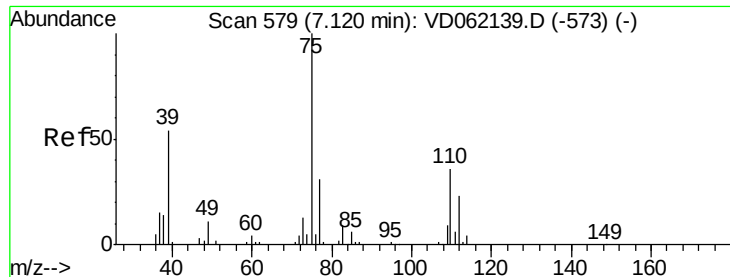
Tot Ion:114 Resp: 647120  
 Ion Ratio Lower Upper  
 114 100  
 63 19.4 0.0 32.4  
 88 19.8 0.0 33.6



#35  
 Dibromofluoromethane  
 Concen: 41.554 ug/l  
 RT: 6.92 min Scan# 559  
 Delta R.T. 0.03 min  
 Lab File: VD062440.D  
 Acq: 17 May 2019 15:39

Tgt Ion:113 Resp: 223112  
 Ion Ratio Lower Upper  
 113 100  
 111 104.2 78.5 117.7  
 192 13.7 13.0 19.4

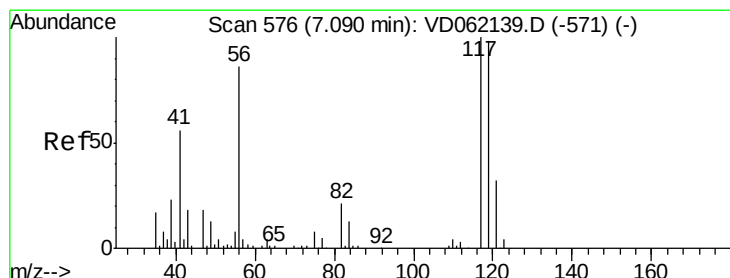
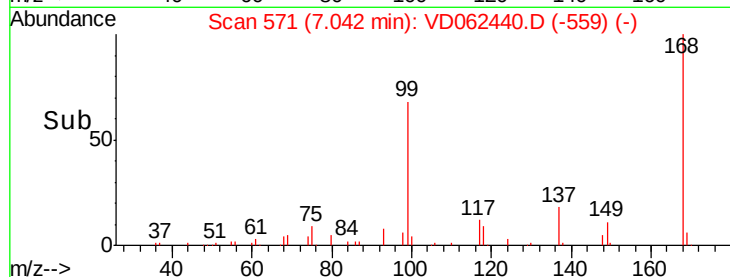
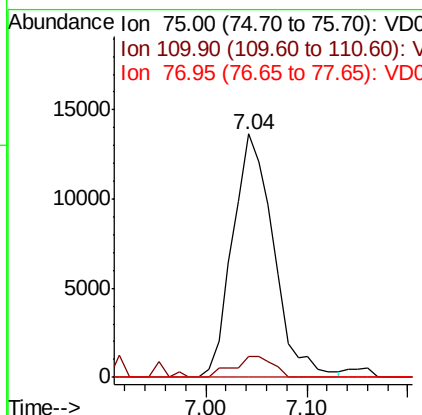
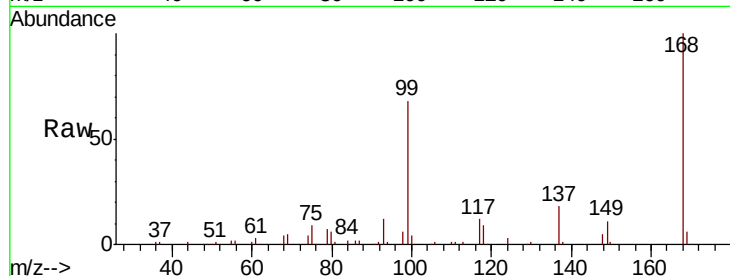




#36  
 1,1-Dichloropropene  
 Concen: 7.273 ug/l  
 RT: 7.04 min Scan# 571  
 Delta R.T. -0.08 min  
 Lab File: VD062440.D  
 Acq: 17 May 2019 15:39

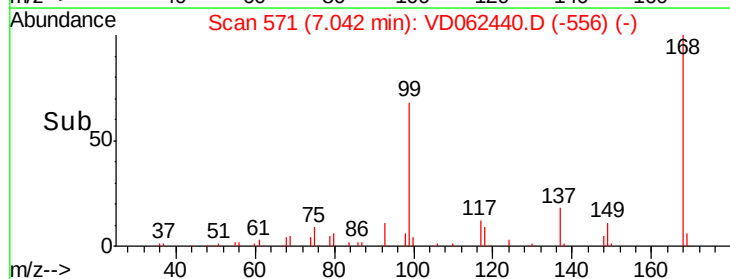
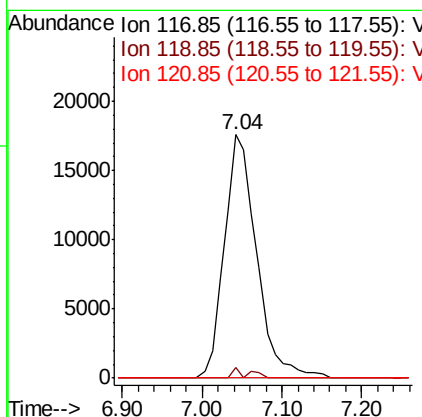
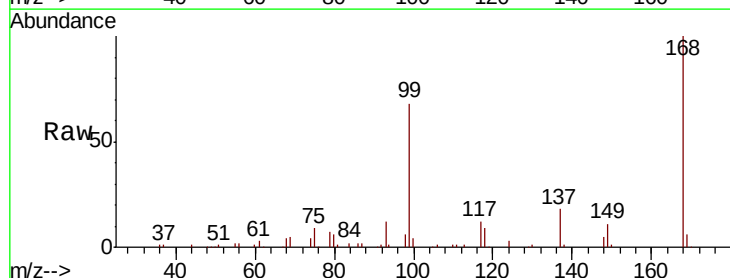
Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 TR-05-051619

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 8.7   | 19.1  | 57.1# |
| 77      | 0.0   | 25.6  | 38.4# |

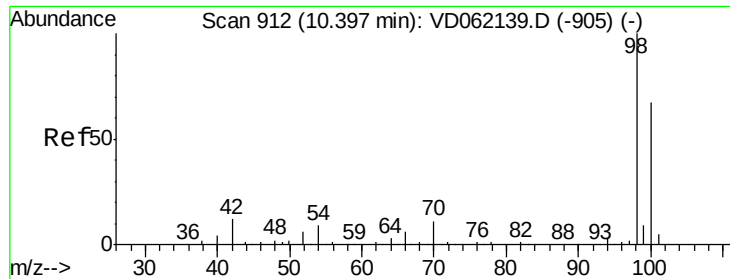


#38  
 Carbon Tetrachloride  
 Concen: 6.777 ug/l  
 RT: 7.04 min Scan# 571  
 Delta R.T. -0.05 min  
 Lab File: VD062440.D  
 Acq: 17 May 2019 15:39

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 117     | 100   |       |        |
| 119     | 4.2   | 75.8  | 113.8# |
| 121     | 0.0   | 25.9  | 38.9#  |







#50

Toluene-d8

Concen: 28.045 ug/l

RT: 10.42 min Scan# 914

Delta R.T. 0.02 min

Lab File: VD062440.D

Acq: 17 May 2019 15:39

Instrument :

MSVOA\_D

ClientSampleId :

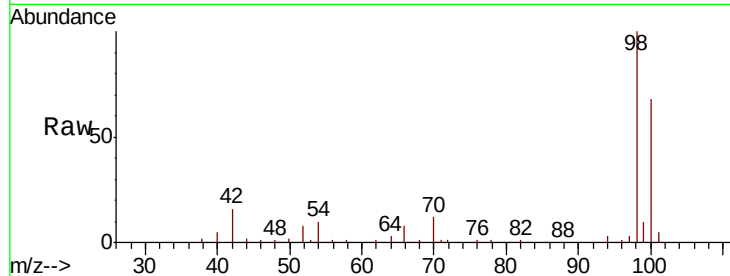
TR-05-051619

Tot Ion: 98 Resp: 363063

Ion Ratio Lower Upper

98 100

100 67.8 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) (-)

10.42

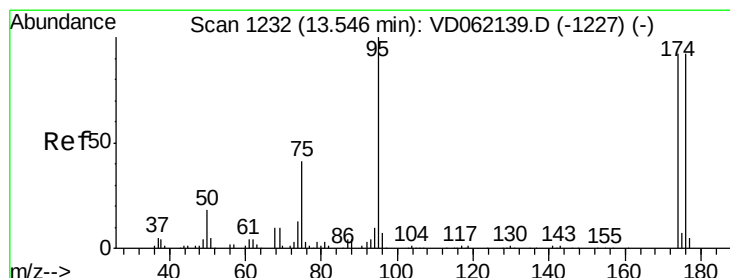
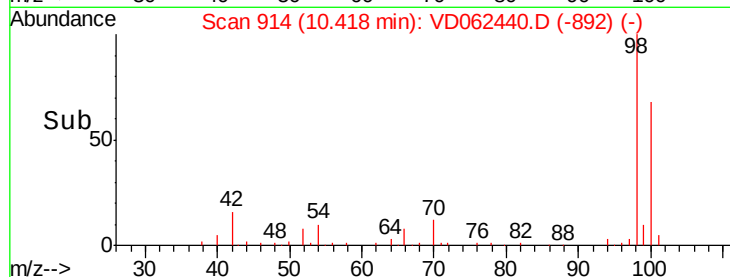
150000

100000

50000

0

Time-->



#62

4-Bromofluorobenzene

Concen: 24.332 ug/l

RT: 13.56 min Scan# 1233

Delta R.T. 0.01 min

Lab File: VD062440.D

Acq: 17 May 2019 15:39

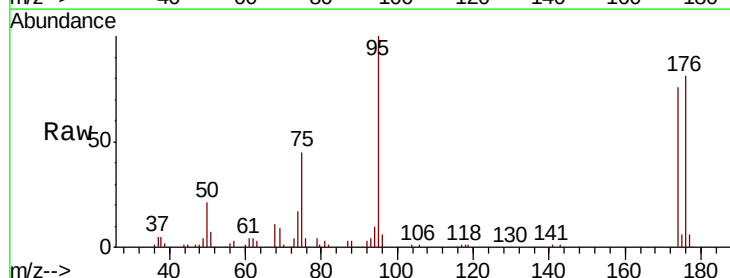
Tgt Ion: 95 Resp: 126491

Ion Ratio Lower Upper

95 100

174 76.3 0.0 181.8

176 80.9 0.0 174.4



Abundance Ion 95.00 (94.70 to 95.70): VD062139.D (-1227) (-)

Ion 173.90 (173.60 to 174.60): VD062139.D (-1227) (-)

Ion 175.90 (175.60 to 176.60): VD062139.D (-1227) (-)

13.56

120000

100000

80000

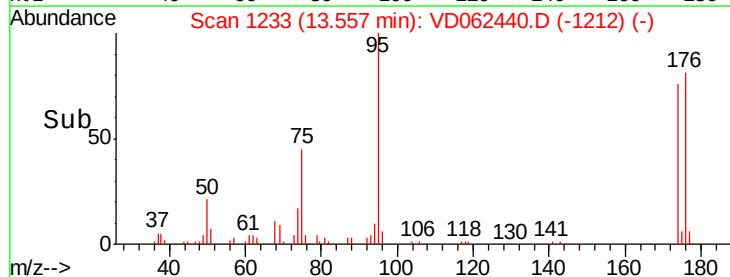
60000

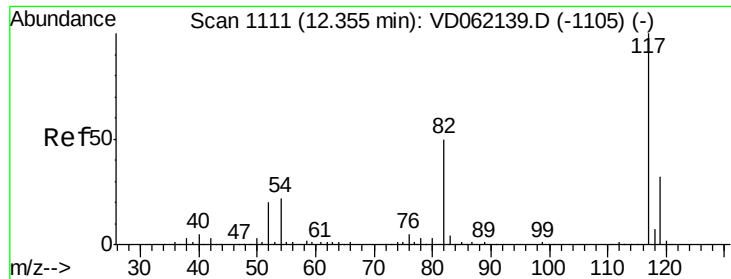
40000

20000

0

Time-->

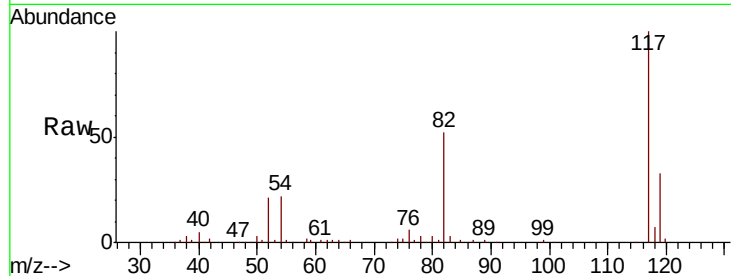




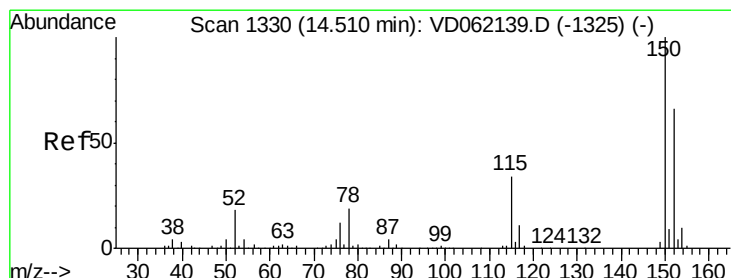
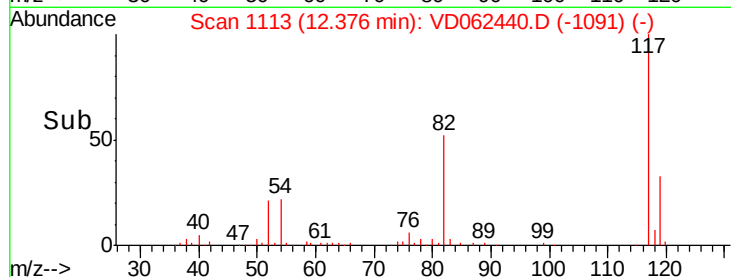
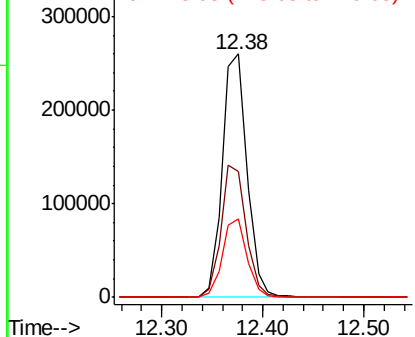
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 12.38 min Scan# 1113  
Delta R.T. 0.02 min  
Lab File: VD062440.D  
Acq: 17 May 2019 15:39

Instrument :  
MSVOA\_D  
ClientSampleId :  
TR-05-051619

Tot Ion:117 Resp: 446102  
Ion Ratio Lower Upper  
117 100  
82 51.9 36.2 54.2  
119 32.5 26.2 39.4

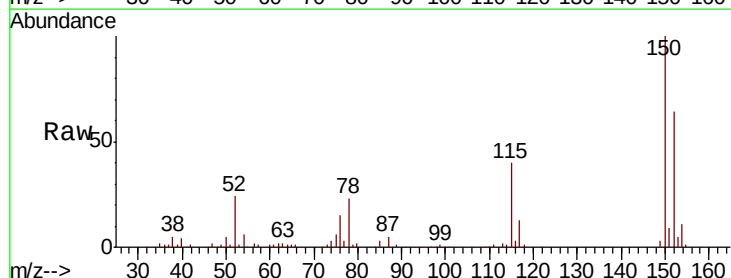


Abundance Ion 116.95 (116.65 to 117.65): V  
Ion 82.05 (81.75 to 82.75): V  
Ion 118.95 (118.65 to 119.65): V

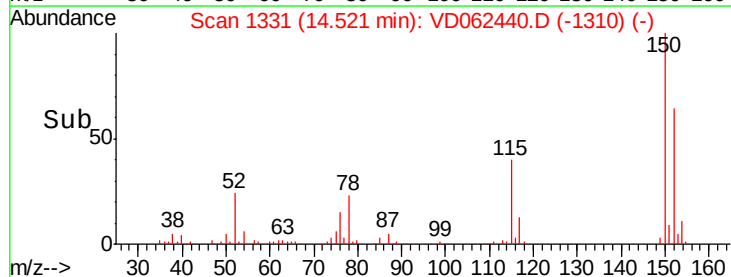
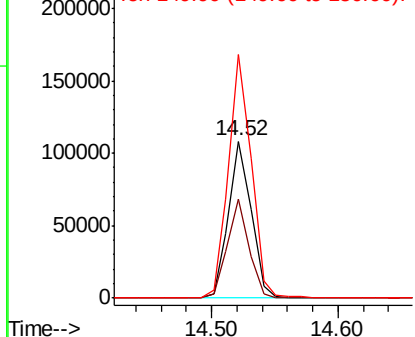


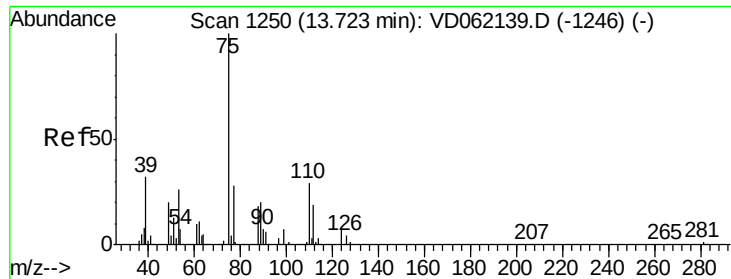
#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 14.52 min Scan# 1331  
Delta R.T. 0.01 min  
Lab File: VD062440.D  
Acq: 17 May 2019 15:39

Tgt Ion:152 Resp: 134011  
Ion Ratio Lower Upper  
152 100  
115 62.9 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





#76

1,2,3-Trichloropropane

Concen: 27.403 ug/l

RT: 13.56 min Scan# 1233

Delta R.T. -0.17 min

Lab File: VD062440.D

Acq: 17 May 2019 15:39

Instrument :

MSVOA\_D

ClientSampleId :

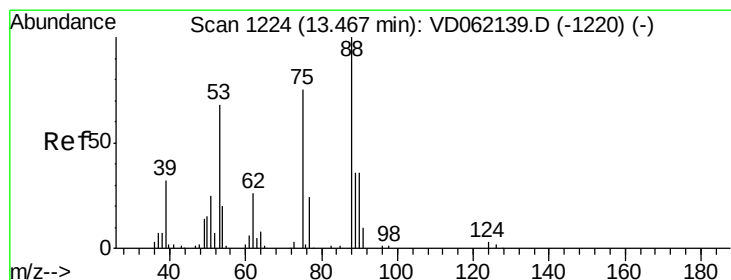
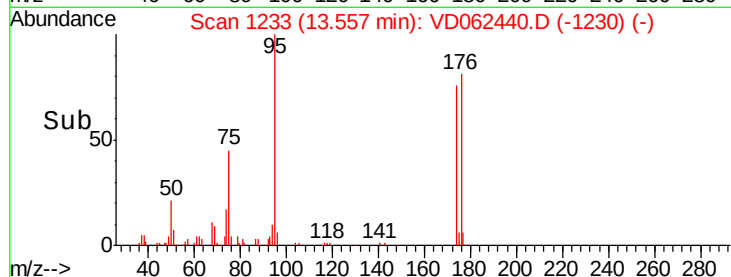
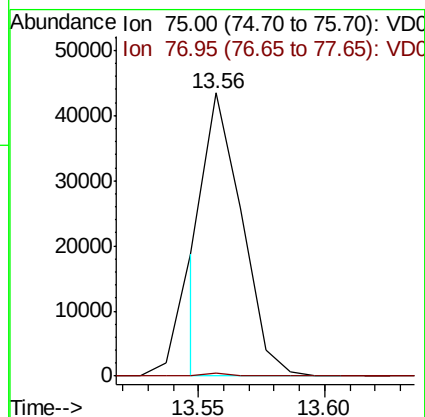
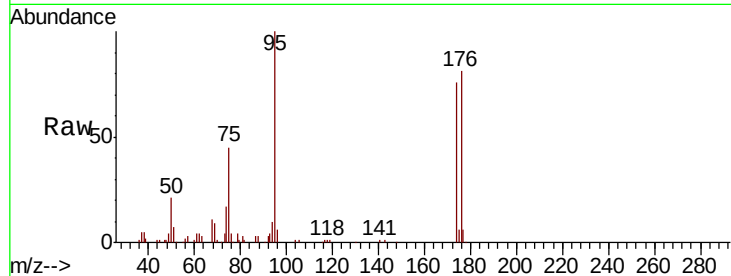
TR-05-051619

Tot Ion: 75 Resp: 43643

Ion Ratio Lower Upper

75 100

77 0.9 16.4 49.4#



#81

trans-1,4-Dichloro-2-butene

Concen: 124.261 ug/l

RT: 13.56 min Scan# 1233

Delta R.T. 0.09 min

Lab File: VD062440.D

Acq: 17 May 2019 15:39

Tgt Ion: 75 Resp: 55868

Ion Ratio Lower Upper

75 100

53 0.0 65.8 98.8#

89 0.0 35.0 52.6#

