

Data File : VD062331.D  
Acq On : 14 May 2019 4:49  
Operator : FY/SY  
Sample : K2735-09  
Misc : 5.64g/5mL/MSVOA\_D/SOIL  
ALS Vial : 41 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
P026-SS016-0206-01

Quant Time: May 14 08:20:02 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      | 7.07  | 168  | 574289   | 50.00 | ug/l  | 0.05     |
| 34) 1,4-Difluorobenzene    | 8.24  | 114  | 772769   | 50.00 | ug/l  | 0.05     |
| 63) Chlorobenzene-d5       | 12.38 | 117  | 503366   | 50.00 | ug/l  | 0.02     |
| 72) 1,4-Dichlorobenzene-d4 | 14.53 | 152  | 192801   | 50.00 | ug/l  | 0.02     |

|                             |        |     |          |       |         |      |
|-----------------------------|--------|-----|----------|-------|---------|------|
| System Monitoring Compounds |        |     |          |       |         |      |
| 33) 1,2-Dichloroethane-d4   | 7.47   | 65  | 268419   | 50.29 | ug/l    | 0.05 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 100.58% |      |
| 35) Dibromofluoromethane    | 6.94   | 113 | 318495   | 49.67 | ug/l    | 0.05 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 99.34%  |      |
| 50) Toluene-d8              | 10.43  | 98  | 513774   | 33.23 | ug/l    | 0.03 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 66.46%  |      |
| 62) 4-Bromofluorobenzene    | 13.57  | 95  | 177728   | 28.63 | ug/l    | 0.02 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 57.26%  |      |

|                                |       |     |        |           |        |    |
|--------------------------------|-------|-----|--------|-----------|--------|----|
| Target Compounds               |       |     | Qvalue |           |        |    |
| 5) Bromomethane                | 2.13  | 94  | 1775   | 1.942     | ug/l # | 12 |
| 16) Acetone                    | 3.23  | 43  | 3498   | 3.125     | ug/l   | 92 |
| 18) Methyl Acetate             | 3.68  | 43  | 178    | Below Cal | #      | 53 |
| 31) Cyclohexane                | 7.06  | 56  | 13000  | 2.322     | ug/l # | 10 |
| 36) 1,1-Dichloropropene        | 7.07  | 75  | 43533  | 6.871     | ug/l # | 47 |
| 38) Carbon Tetrachloride       | 7.07  | 117 | 60265  | 6.872     | ug/l # | 15 |
| 76) 1,2,3-Trichloropropane     | 13.57 | 75  | 73218  | 31.955    | ug/l # | 43 |
| 81) trans-1,4-Dichloro-2-buten | 13.57 | 75  | 79192  | 122.429   | ug/l # | 16 |

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

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MSVOA\_D  
**ClientSampleId :**  
P026-SS016-0206-01

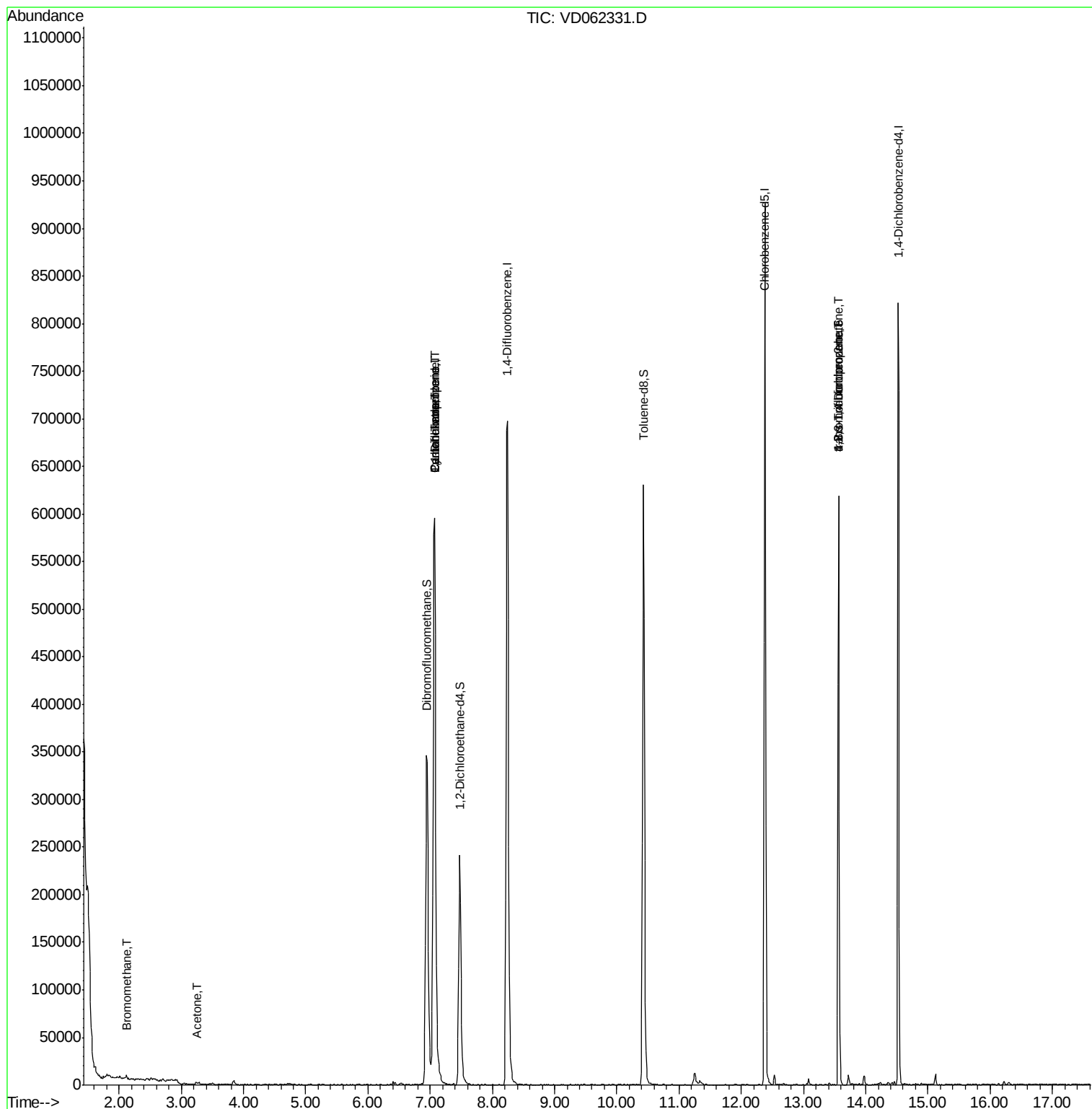
Quant Time: May 14 08:20:02 2019

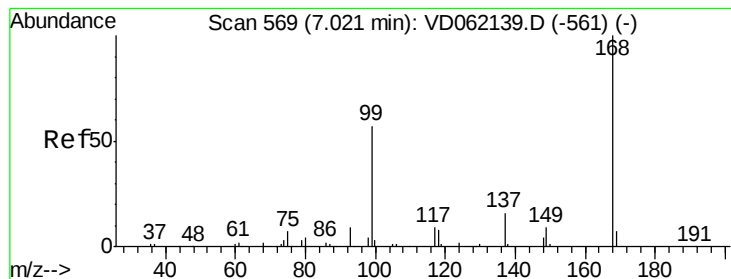
Quant Method : Z:\V0ASRV\HPCHEM1\MSV0A\_D\METHOD\82D050719S.M

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: 7.07 min Scan# 574

Delta R.T. 0.05 min

Lab File: VD062331.D

Acq: 14 May 2019 4:49

Instrument :

MSVOA\_D

ClientSampleId :

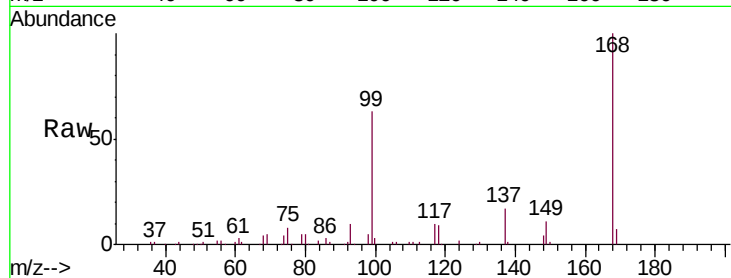
P026-SS016-0206-01

Tgt Ion:168 Resp: 574289

Ion Ratio Lower Upper

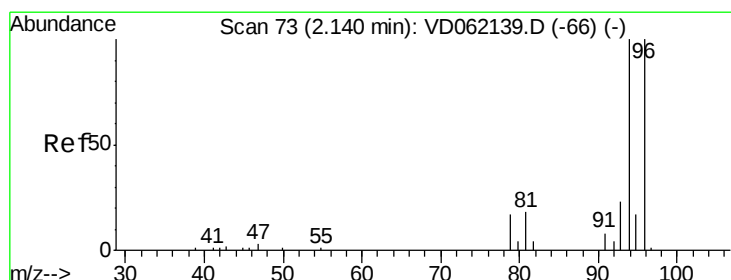
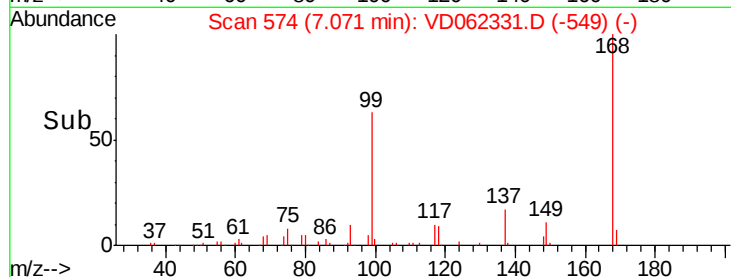
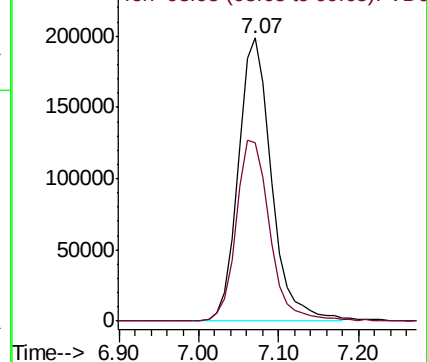
168 100

99 63.0 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: 1.942 ug/l

RT: 2.13 min Scan# 72

Delta R.T. -0.01 min

Lab File: VD062331.D

Acq: 14 May 2019 4:49

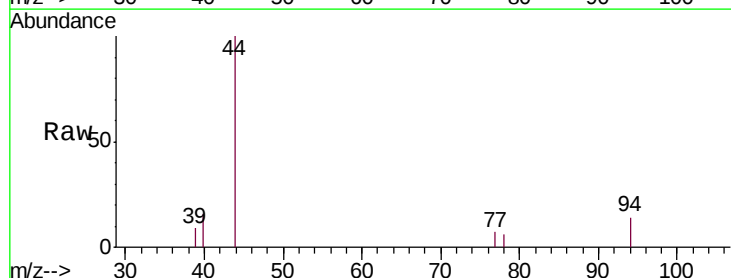
Tgt Ion: 94 Resp: 1775

Ion Ratio Lower Upper

94 100

96 0.0 76.6 115.0#

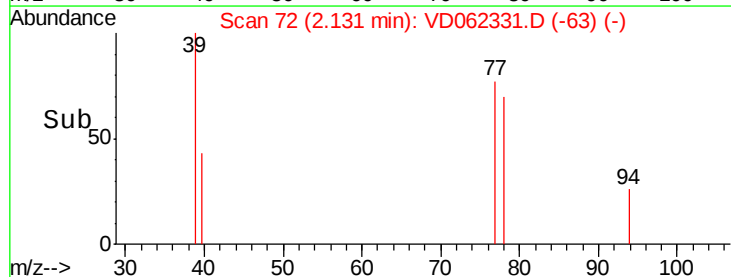
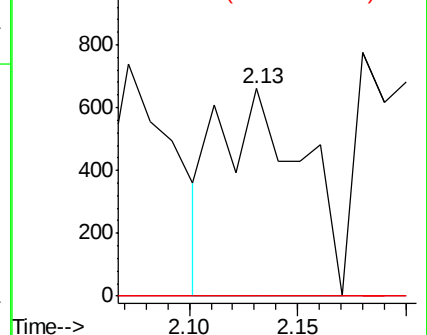
93 0.0 18.5 27.7#

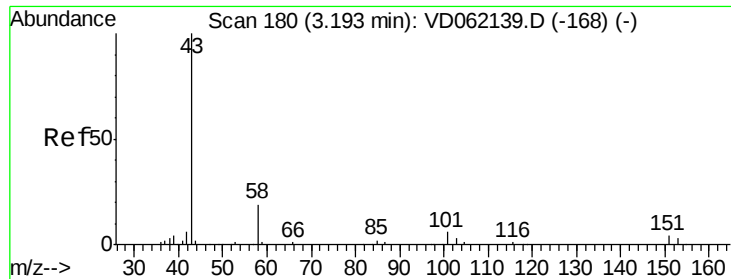


Abundance Ion 94.00 (93.70 to 94.70): VDC

Ion 96.00 (95.70 to 96.70): VDC

Ion 93.00 (92.70 to 93.70): VDC





#16

Acetone

Concen: 3.125 ug/l

RT: 3.23 min Scan# 184

Delta R.T. 0.04 min

Lab File: VD062331.D

Acq: 14 May 2019 4:49

Instrument :

MSVOA\_D

ClientSampleId :

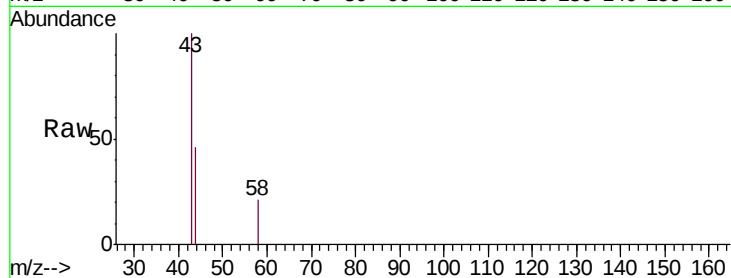
P026-SS016-0206-01

Tgt Ion: 43 Resp: 3498

Ion Ratio Lower Upper

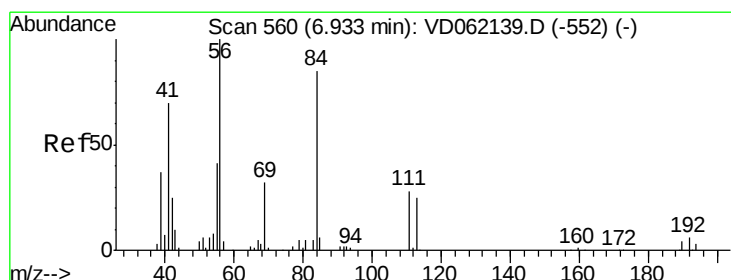
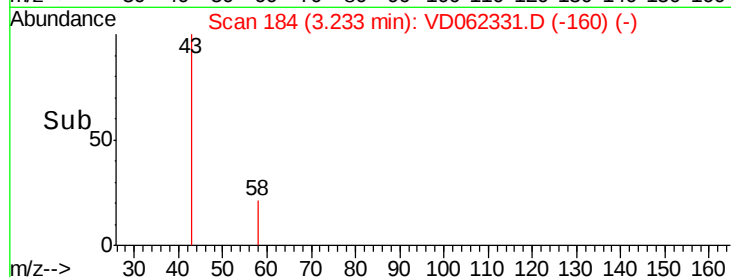
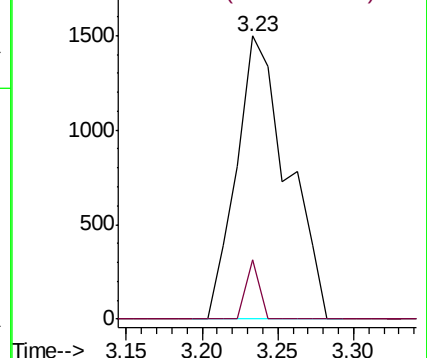
43 100

58 20.8 19.9 29.9



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#31

Cyclohexane

Concen: 2.322 ug/l

RT: 7.06 min Scan# 573

Delta R.T. 0.13 min

Lab File: VD062331.D

Acq: 14 May 2019 4:49

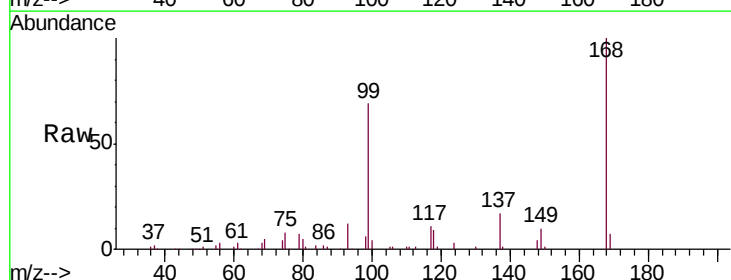
Tgt Ion: 56 Resp: 13000

Ion Ratio Lower Upper

56 100

69 203.7 25.8 38.6#

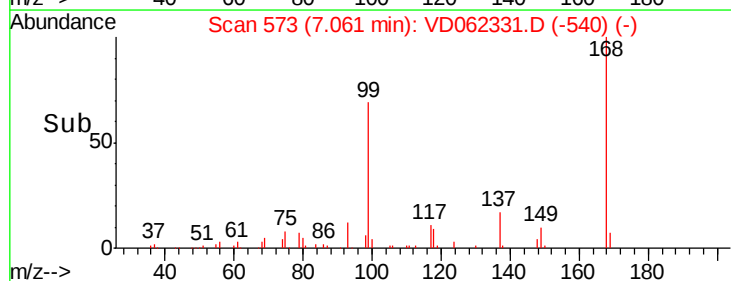
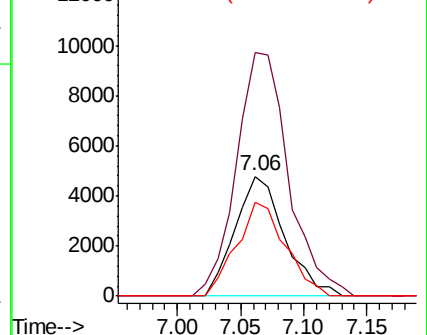
84 78.5 72.2 108.4

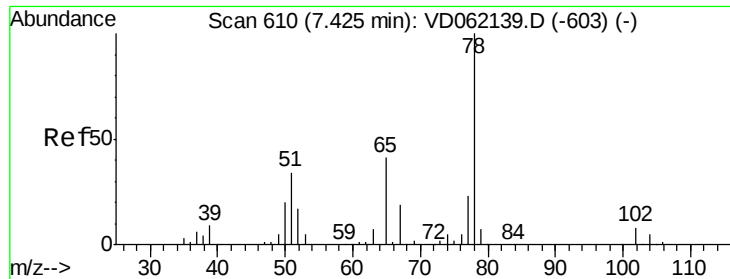


Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 69.00 (68.70 to 69.70): VDC

Ion 84.05 (83.75 to 84.75): VDC





#33

1,2-Dichloroethane-d4

Concen: 50.295 ug/l

RT: 7.47 min Scan# 615

Delta R.T. 0.05 min

Lab File: VD062331.D

Acq: 14 May 2019 4:49

Instrument :

MSVOA\_D

ClientSampleId :

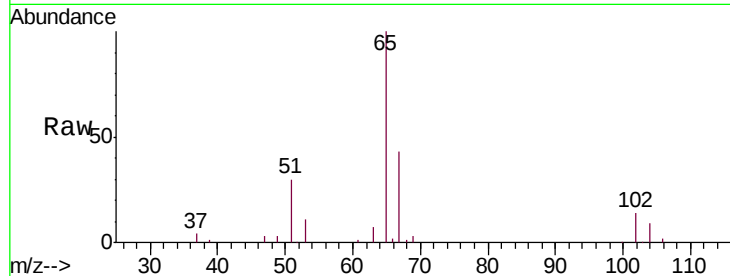
P026-SS016-0206-01

Tgt Ion: 65 Resp: 268419

Ion Ratio Lower Upper

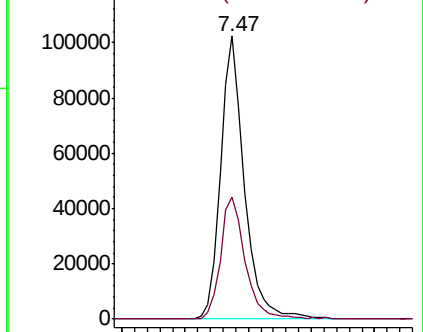
65 100

67 43.2 0.0 98.0

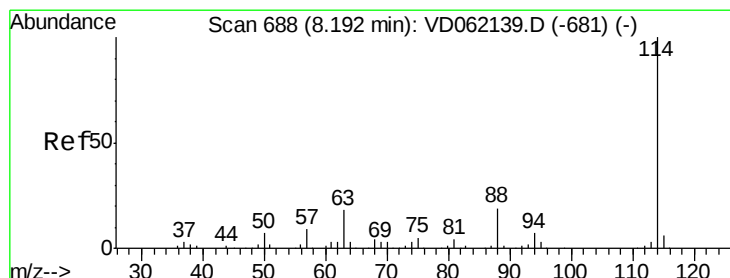
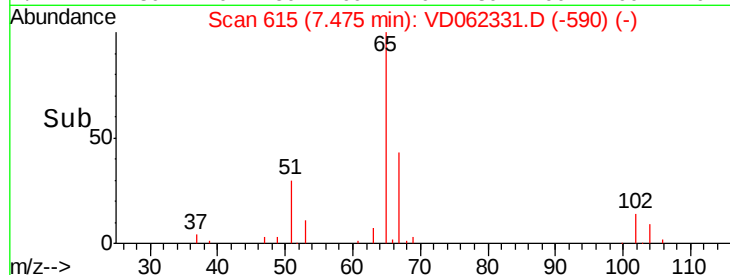


Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC



Time--> 7.30 7.40 7.50 7.60 7.70



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.24 min Scan# 693

Delta R.T. 0.05 min

Lab File: VD062331.D

Acq: 14 May 2019 4:49

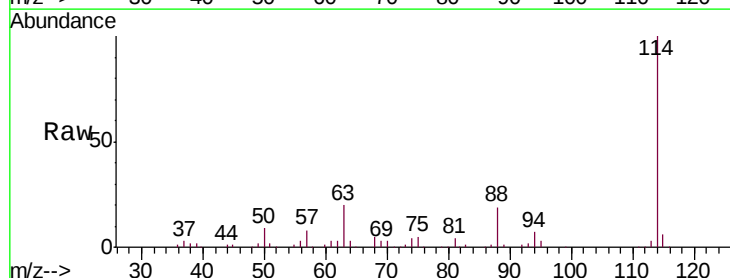
Tgt Ion: 114 Resp: 772769

Ion Ratio Lower Upper

114 100

63 19.7 0.0 32.4

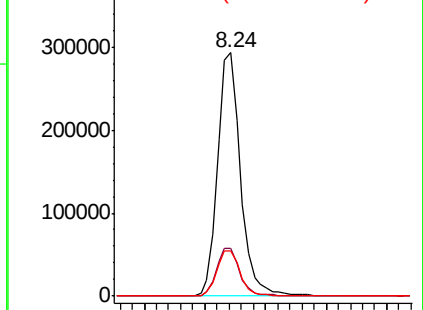
88 18.6 0.0 33.6



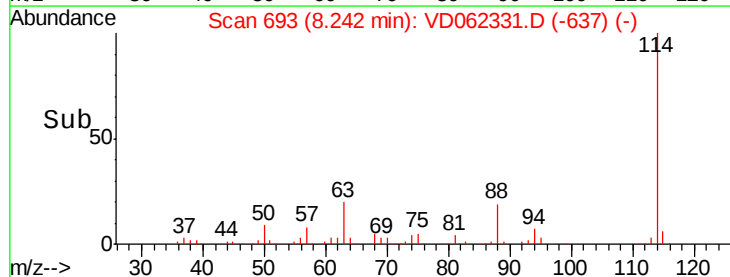
Abundance Ion 114.00 (113.70 to 114.70): V

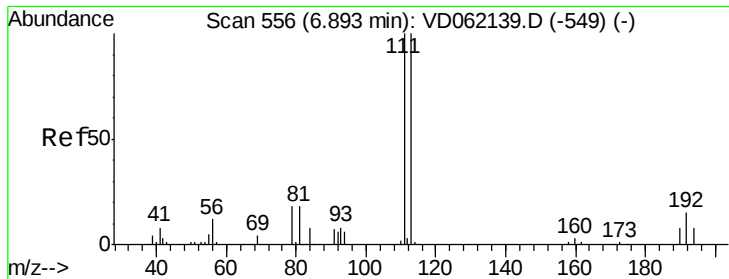
Ion 62.95 (62.65 to 63.65): VDC

Ion 87.90 (87.60 to 88.60): VDC



Time--> 8.10 8.20 8.30 8.40 8.50

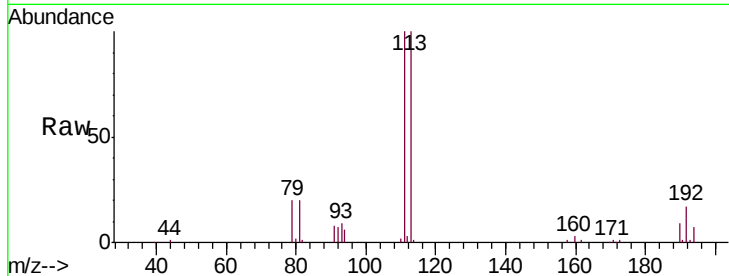




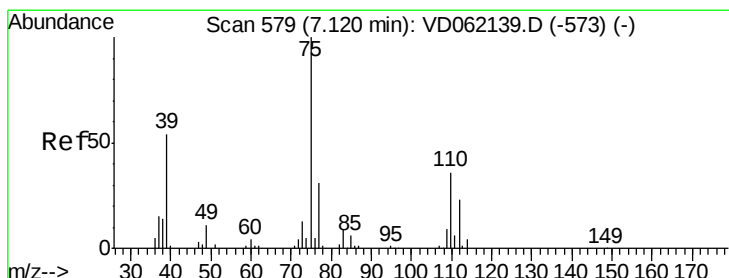
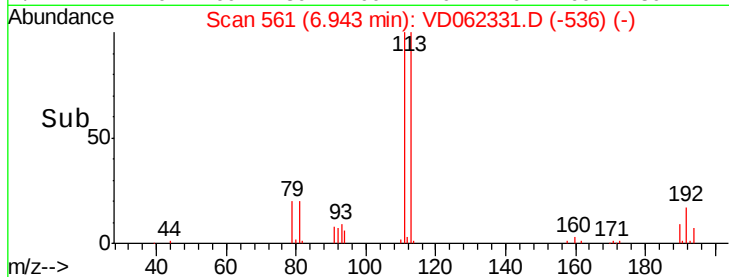
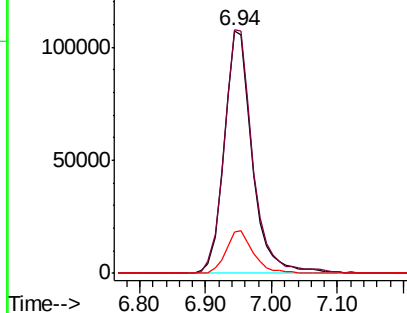
#35  
 Dibromofluoromethane  
 Concen: 49.674 ug/l  
 RT: 6.94 min Scan# 561  
 Delta R.T. 0.05 min  
 Lab File: VD062331.D  
 Acq: 14 May 2019 4:49

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 P026-SS016-0206-01

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 113     | 100   | 318495 |       |       |
| 111     | 100.5 |        | 78.5  | 117.7 |
| 192     | 16.9  |        | 13.0  | 19.4  |

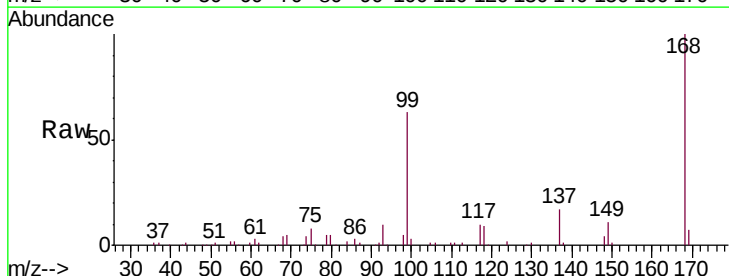


Abundance Ion 112.90 (112.60 to 113.60): V  
 Ion 110.90 (110.60 to 111.60): V  
 Ion 191.80 (191.50 to 192.50): V

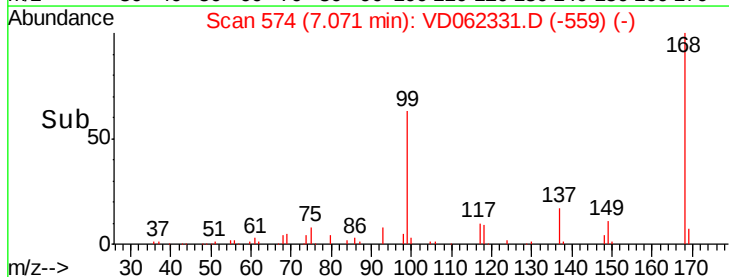
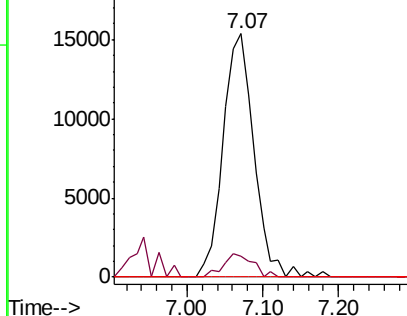


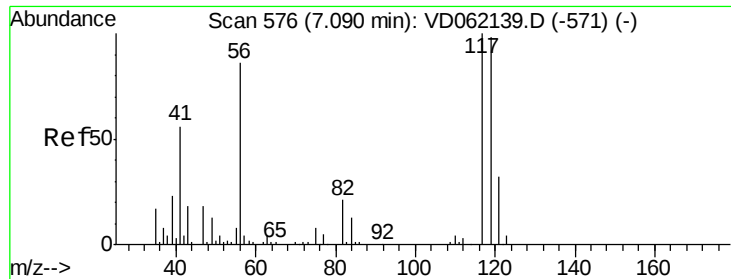
#36  
 1,1-Dichloropropene  
 Concen: 6.871 ug/l  
 RT: 7.07 min Scan# 574  
 Delta R.T. -0.05 min  
 Lab File: VD062331.D  
 Acq: 14 May 2019 4:49

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 75      | 100   | 43533 |       |       |
| 110     | 8.5   |       | 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

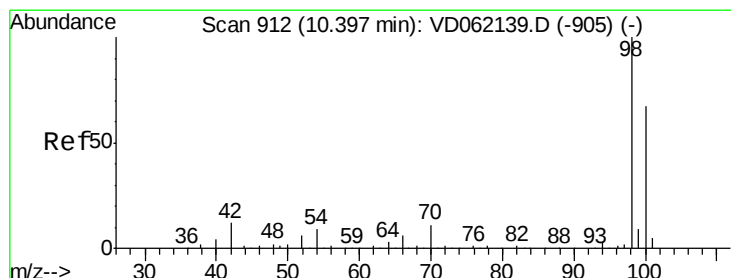
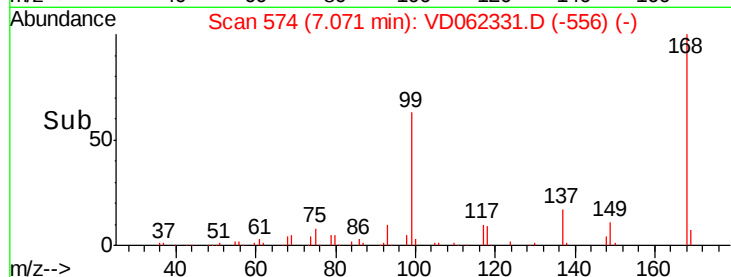
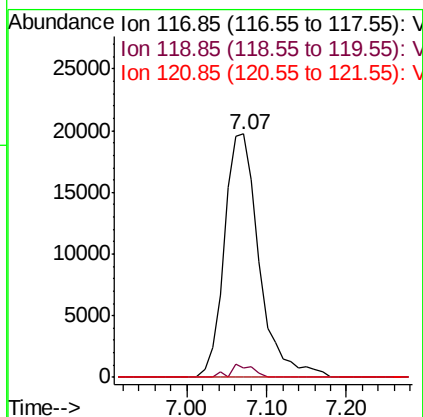
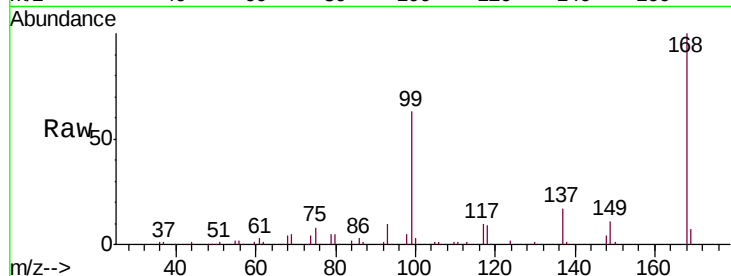




#38  
Carbon Tetrachloride  
Concen: 6.872 ug/l  
RT: 7.07 min Scan# 574  
Delta R.T. -0.02 min  
Lab File: VD062331.D  
Acq: 14 May 2019 4:49

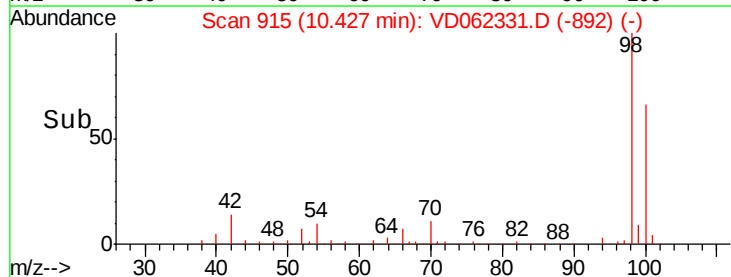
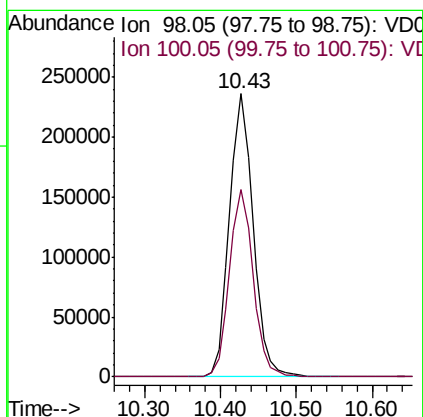
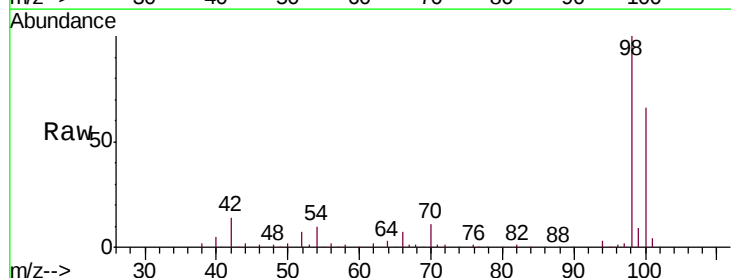
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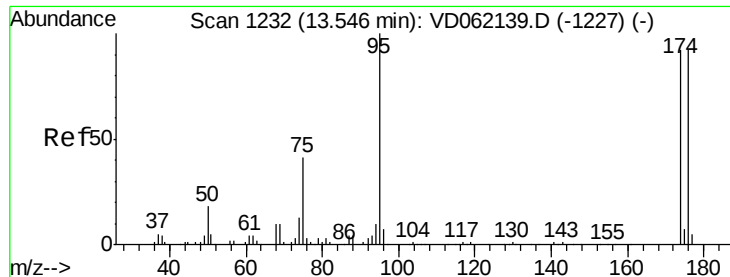
Tgt Ion: 117 Resp: 60265  
Ion Ratio Lower Upper  
117 100  
119 3.8 75.8 113.8#  
121 0.0 25.9 38.9#



#50  
Toluene-d8  
Concen: 33.234 ug/l  
RT: 10.43 min Scan# 915  
Delta R.T. 0.03 min  
Lab File: VD062331.D  
Acq: 14 May 2019 4:49

Tgt Ion: 98 Resp: 513774  
Ion Ratio Lower Upper  
98 100  
100 66.2 53.8 80.8

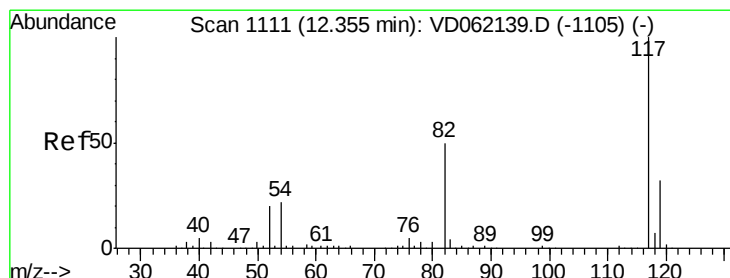
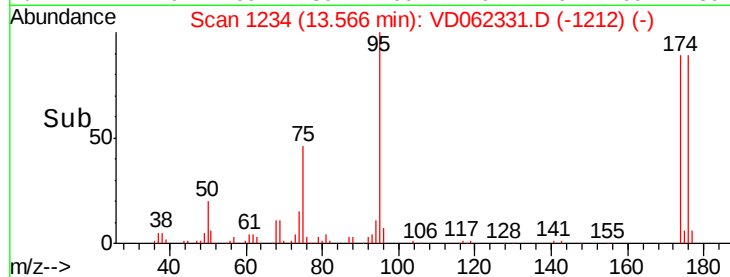
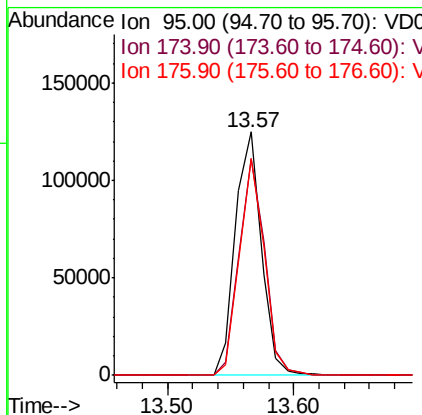
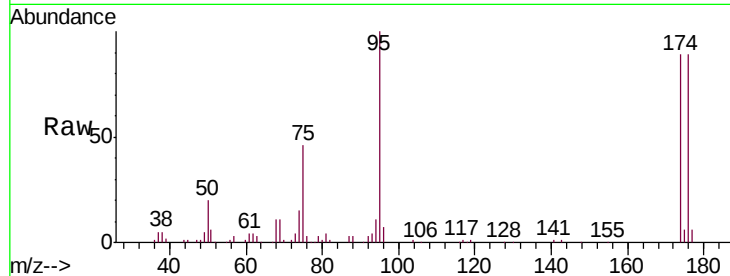




#62  
 4-Bromofluorobenzene  
 Concen: 28.630 ug/l  
 RT: 13.57 min Scan# 1234  
 Delta R.T. 0.02 min  
 Lab File: VD062331.D  
 Acq: 14 May 2019 4:49

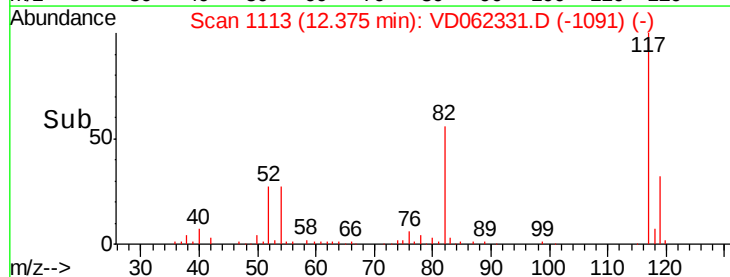
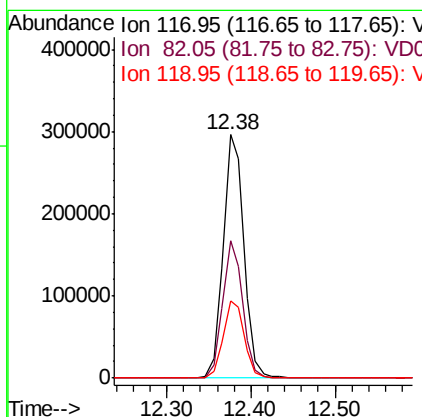
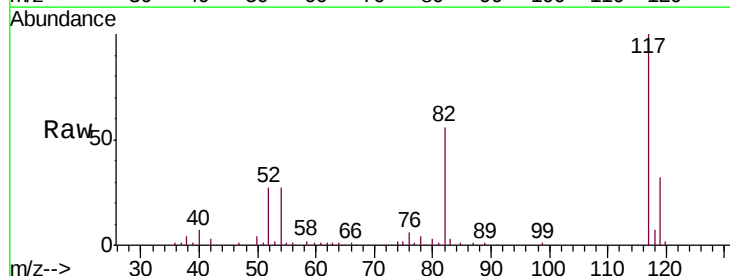
Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 P026-SS016-0206-01

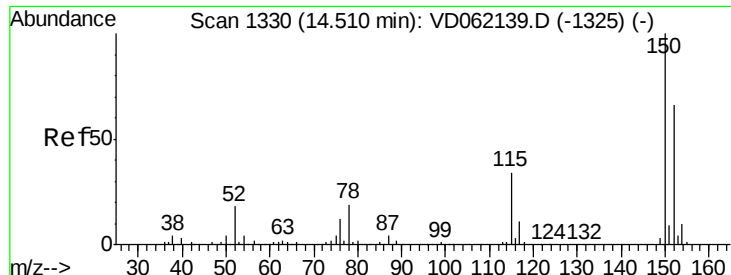
Tgt Ion: 95 Resp: 177728  
 Ion Ratio Lower Upper  
 95 100  
 174 89.1 0.0 181.8  
 176 88.9 0.0 174.4



#63  
 Chlorobenzene-d5  
 Concen: 50.000 ug/l  
 RT: 12.38 min Scan# 1113  
 Delta R.T. 0.02 min  
 Lab File: VD062331.D  
 Acq: 14 May 2019 4:49

Tgt Ion: 117 Resp: 503366  
 Ion Ratio Lower Upper  
 117 100  
 82 56.4 36.2 54.2#  
 119 31.5 26.2 39.4





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 14.53 min Scan# 1332

Delta R.T. 0.02 min

Lab File: VD062331.D

Acq: 14 May 2019 4:49

Instrument :

MSVOA\_D

ClientSampleId :

P026-SS016-0206-01

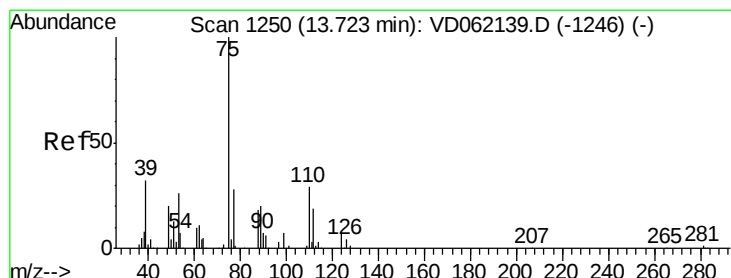
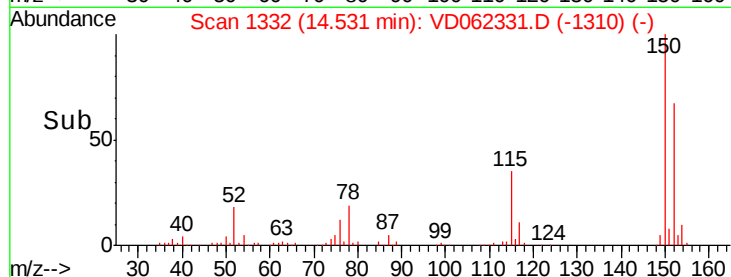
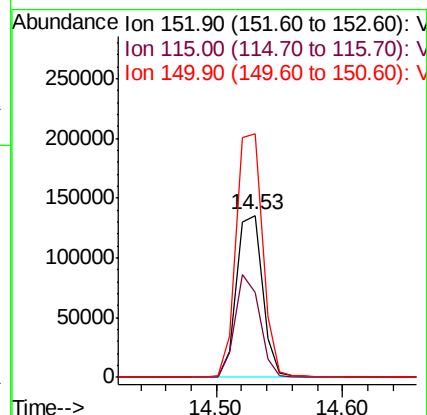
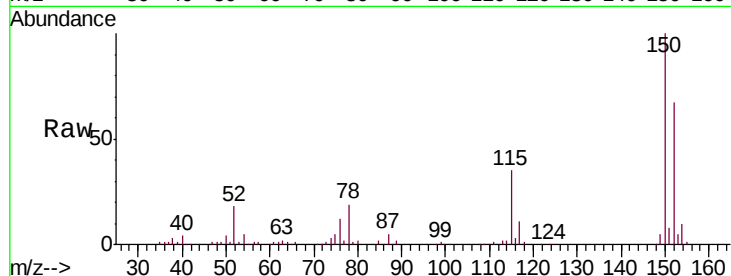
Tgt Ion:152 Resp: 192801

Ion Ratio Lower Upper

152 100

115 52.4 30.9 92.7

150 150.1 0.0 314.8



#76

1,2,3-Trichloropropane

Concen: 31.955 ug/l

RT: 13.57 min Scan# 1234

Delta R.T. -0.16 min

Lab File: VD062331.D

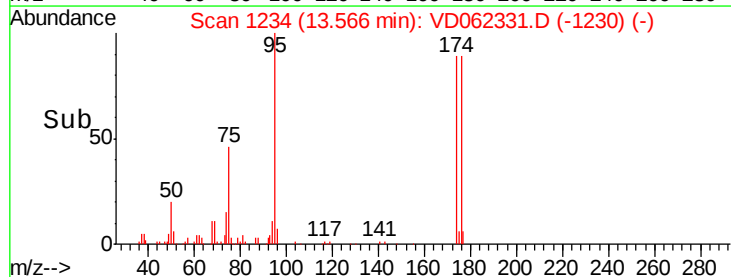
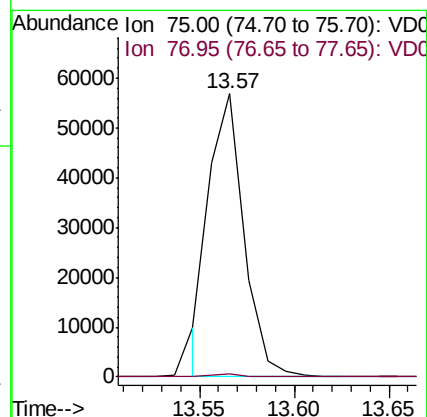
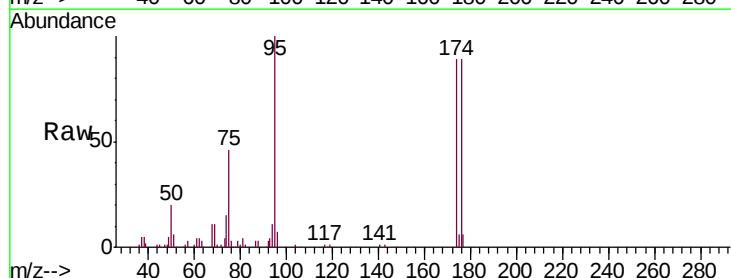
Acq: 14 May 2019 4:49

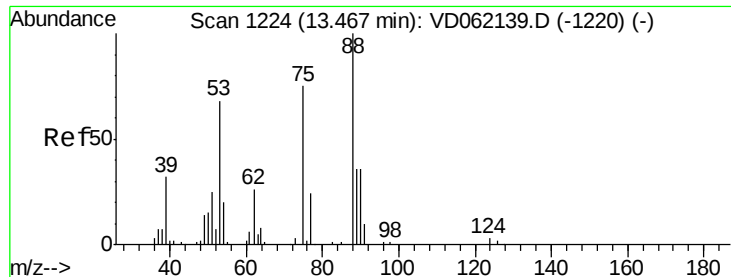
Tgt Ion: 75 Resp: 73218

Ion Ratio Lower Upper

75 100

77 0.9 16.4 49.4#





#81

trans-1,4-Dichloro-2-butene

Concen: 122.429 ug/l

RT: 13.57 min Scan# 1234

Delta R.T. 0.10 min

Lab File: VD062331.D

Acq: 14 May 2019 4:49

Instrument :

MSVOA\_D

ClientSampleId :

P026-SS016-0206-01

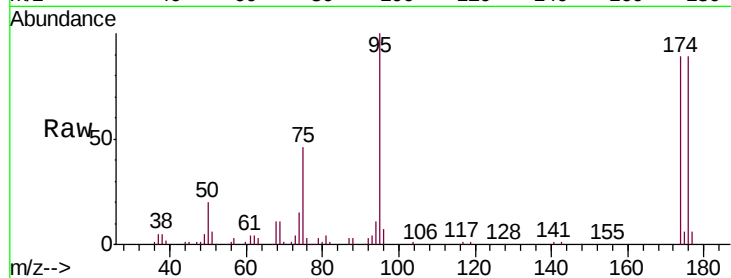
Tgt Ion: 75 Resp: 79192

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): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 89.00 (88.70 to 89.70): VDC

