

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD051419\  
 Data File : VD062365.D  
 Acq On : 15 May 2019 1:14  
 Operator : FY/SY  
 Sample : K2756-11RE  
 Misc : 6.09g/5mL/MSVOA D/SOIL  
 ALS Vial : 31 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :

Quant Time: May 15 03:31:16 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  | 46517    | 50.00 | ug/l  | 0.04     |
| 34) 1,4-Difluorobenzene    | 8.23  | 114  | 84001    | 50.00 | ug/l  | 0.03     |
| 63) Chlorobenzene-d5       | 12.38 | 117  | 75362    | 50.00 | ug/l  | 0.02     |
| 72) 1,4-Dichlorobenzene-d4 | 14.52 | 152  | 37373    | 50.00 | ug/l  | 0.01     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc   | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|--------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 7.47  | 65   | 50635    | 117.13 | ug/l    | 0.04     |
| Spiked Amount               |       |      | Recovery | =      | 234.26% |          |
| 35) Dibromofluoromethane    | 6.94  | 113  | 39602    | 56.82  | ug/l    | 0.04     |
| Spiked Amount               |       |      | Recovery | =      | 113.64% |          |
| 50) Toluene-d8              | 10.42 | 98   | 56029    | 33.34  | ug/l    | 0.02     |
| Spiked Amount               |       |      | Recovery | =      | 66.68%  |          |
| 62) 4-Bromofluorobenzene    | 13.56 | 95   | 29822    | 44.19  | ug/l    | 0.01     |
| Spiked Amount               |       |      | Recovery | =      | 88.38%  |          |

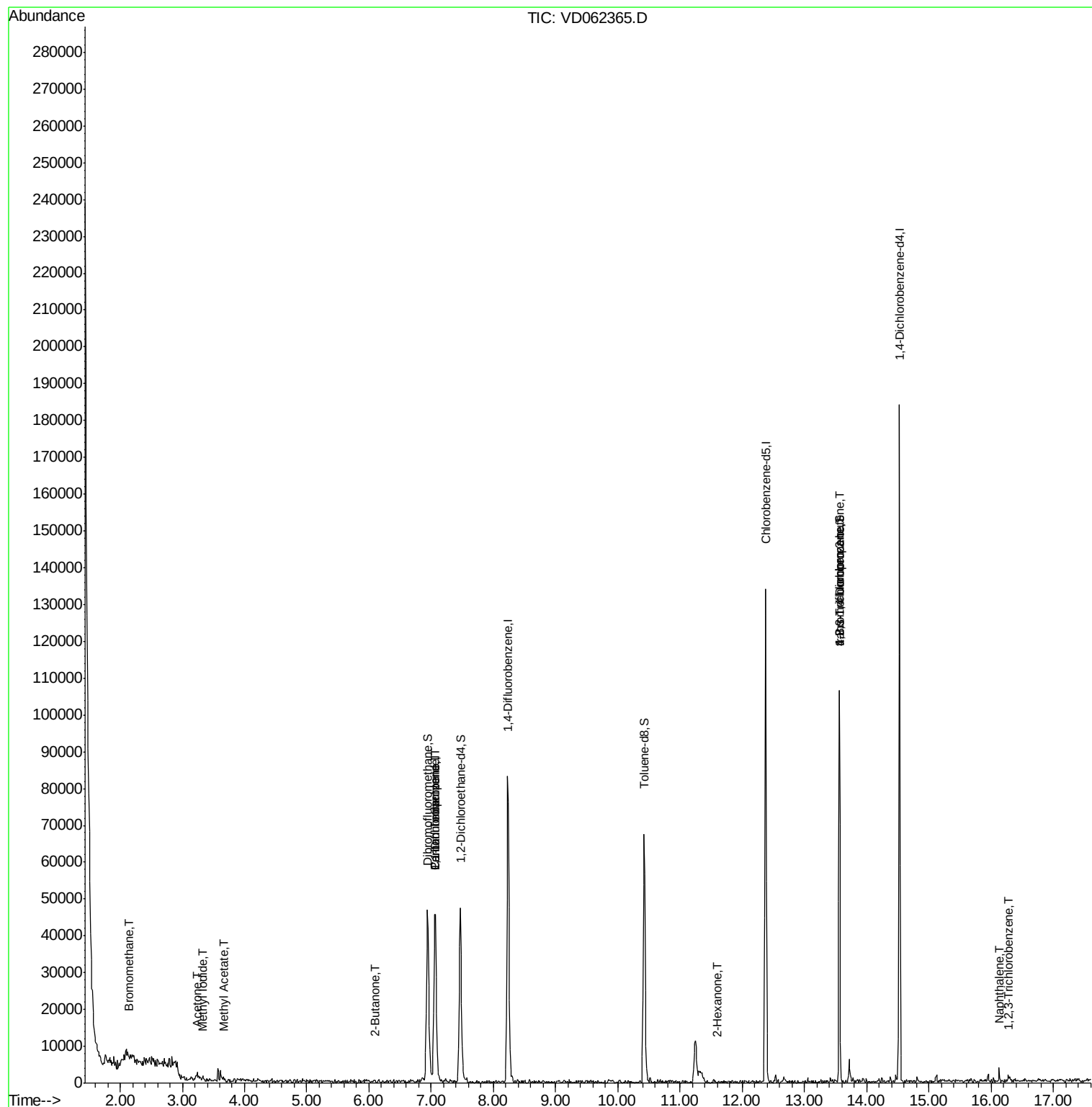
| Target Compounds               | R.T.  | QIon | Response | Conc    | Units  | Qvalue |
|--------------------------------|-------|------|----------|---------|--------|--------|
| 5) Bromomethane                | 2.15  | 94   | 449      | 6.065   | ug/l # | 12     |
| 10) Methyl Iodide              | 3.33  | 142  | 1545     | 2.200   | ug/l # | 72     |
| 16) Acetone                    | 3.24  | 43   | 4701     | 51.856  | ug/l # | 50     |
| 18) Methyl Acetate             | 3.66  | 43   | 582      | 3.306   | ug/l # | 53     |
| 25) 2-Butanone                 | 6.09  | 43   | 213      | 2.154   | ug/l # | 56     |
| 36) 1,1-Dichloropropene        | 7.07  | 75   | 3200     | 4.646   | ug/l # | 40     |
| 38) Carbon Tetrachloride       | 7.07  | 117  | 4798     | 5.033   | ug/l # | 12     |
| 59) 2-Hexanone                 | 11.59 | 43   | 227      | 1.157   | ug/l # | 27     |
| 76) 1,2,3-Trichloropropane     | 13.56 | 75   | 12705    | 28.605  | ug/l # | 42     |
| 81) trans-1,4-Dichloro-2-buten | 13.56 | 75   | 12948    | 103.266 | ug/l # | 16     |
| 95) Naphthalene                | 16.13 | 128  | 2245     | 2.342   | ug/l # | 79     |
| 96) 1,2,3-Trichlorobenzene     | 16.28 | 180  | 1001     | 2.318   | ug/l # | 73     |

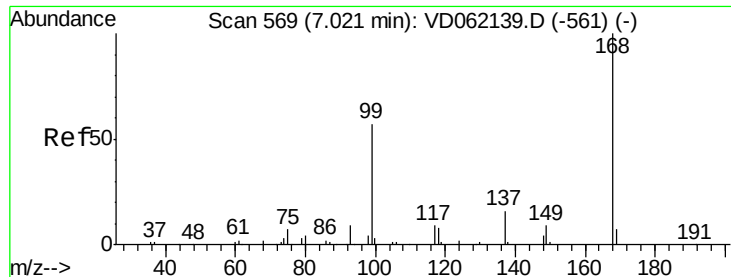
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD051419\  
Data File : VD062365.D  
Acq On : 15 May 2019 1:14  
Operator : FY/SY  
Sample : K2756-11RE  
Misc : 6.09g/5mL/MSVOA D/SOIL  
ALS Vial : 31 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :

Quant Time: May 15 03:31:16 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: 7.07 min Scan# 573

Delta R.T. 0.04 min

Lab File: VD062365.D

Acq: 15 May 2019 1:14

Instrument :

MSVOA\_D

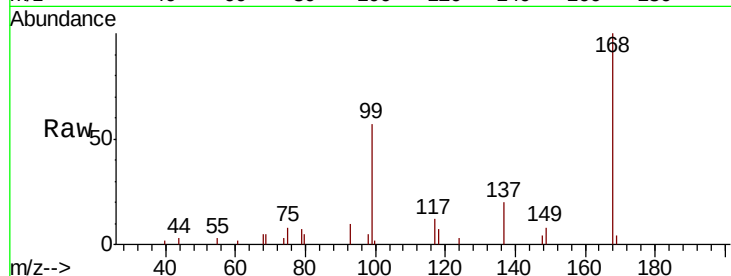
ClientSampleId :

Tot Ion:168 Resp: 46517

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

7.07

15000

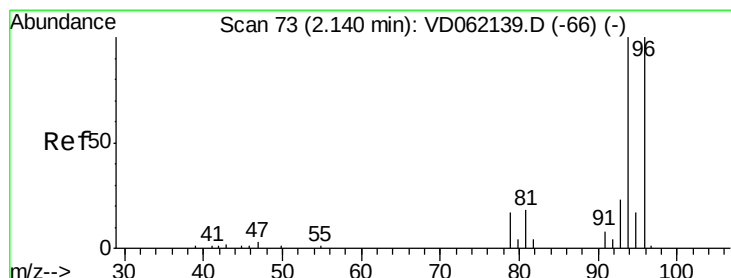
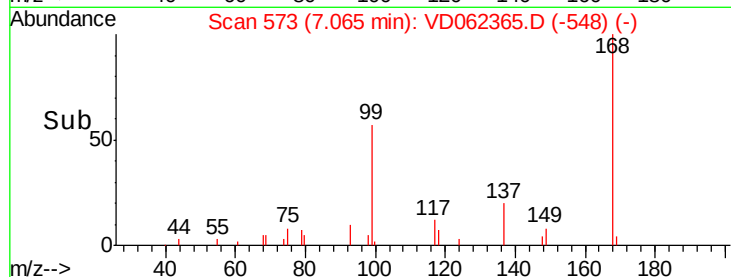
10000

5000

0

Time-->

7.00 7.10 7.20



#5

Bromomethane

Concen: 6.065 ug/l

RT: 2.15 min Scan# 73

Delta R.T. 0.00 min

Lab File: VD062365.D

Acq: 15 May 2019 1:14

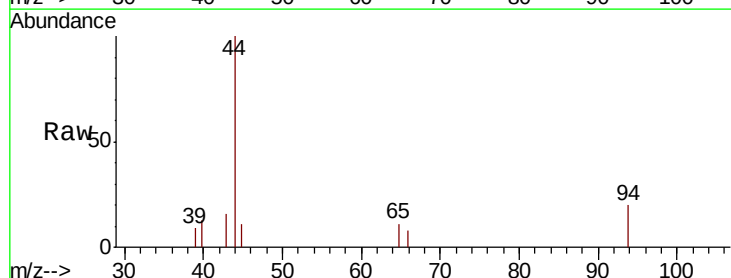
Tgt Ion: 94 Resp: 449

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

2.15

1000

800

600

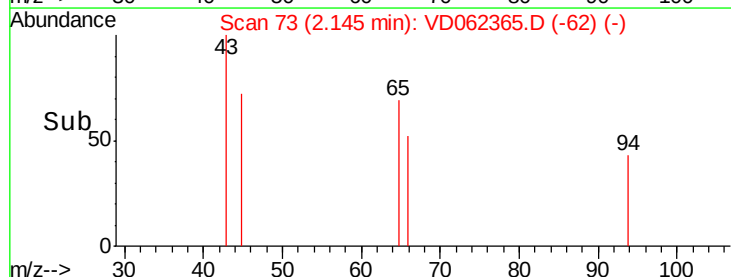
400

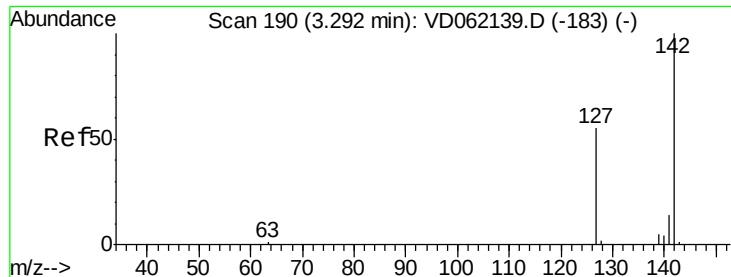
200

0

Time-->

2.13 2.14 2.15 2.16

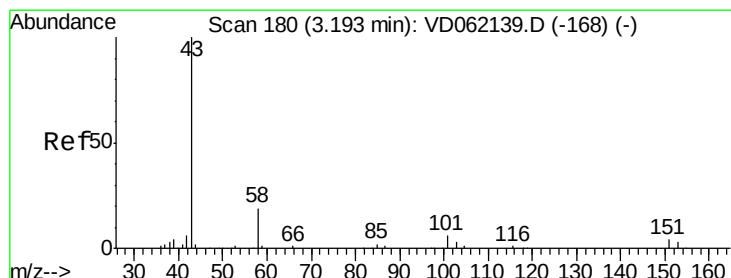
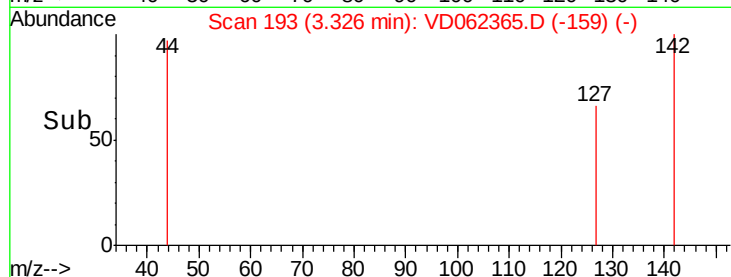
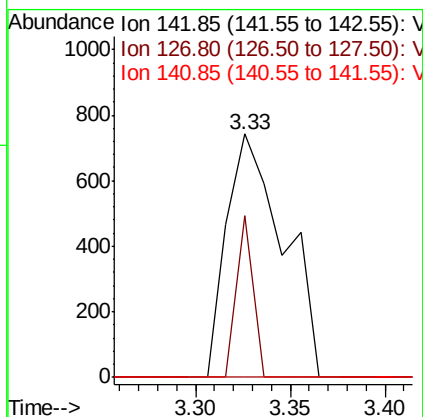
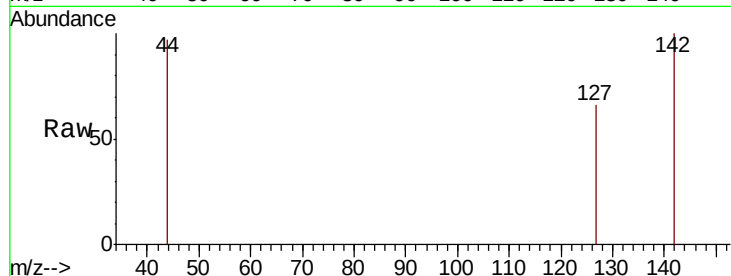




#10  
Methvl Iodide  
Concen: 2.200 ug/l  
RT: 3.33 min Scan# 193  
Delta R.T. 0.03 min  
Lab File: VD062365.D  
Acq: 15 May 2019 1:14

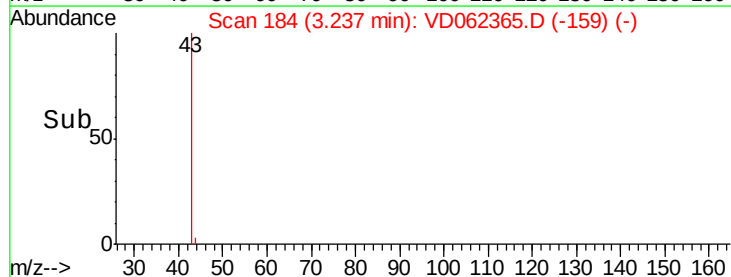
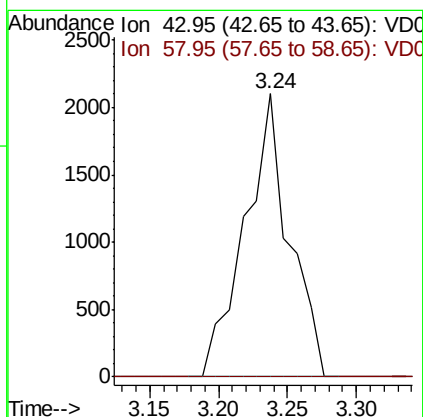
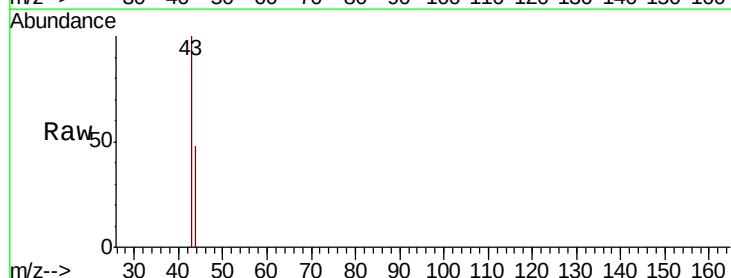
Instrument :  
MSVOA\_D  
ClientSampled :

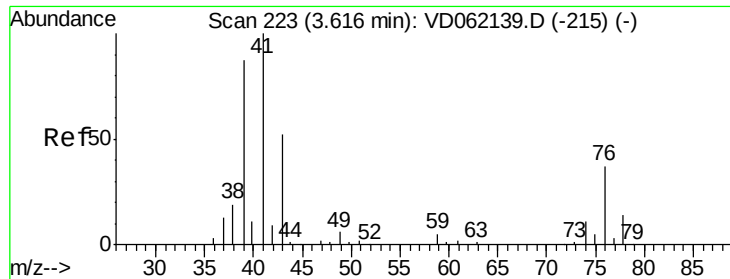
Tot Ion:142 Resp: 1545  
Ion Ratio Lower Upper  
142 100  
127 66.4 38.8 58.2#  
141 0.0 11.4 17.0#



#16  
Acetone  
Concen: 51.856 ug/l  
RT: 3.24 min Scan# 184  
Delta R.T. 0.04 min  
Lab File: VD062365.D  
Acq: 15 May 2019 1:14

Tgt Ion: 43 Resp: 4701  
Ion Ratio Lower Upper  
43 100  
58 0.0 19.9 29.9#

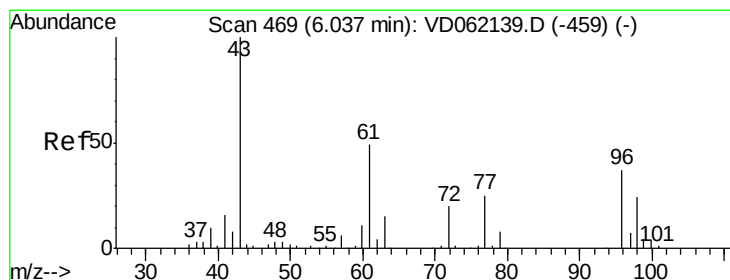
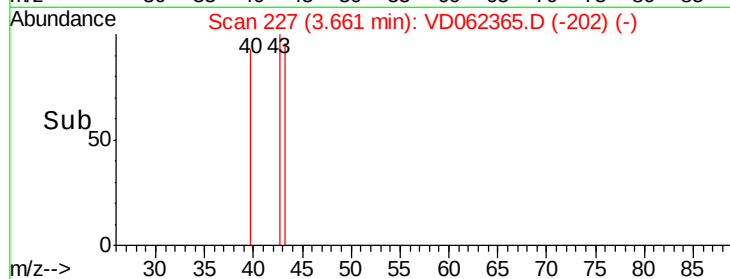
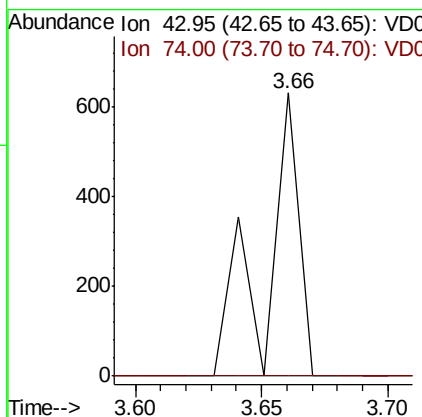
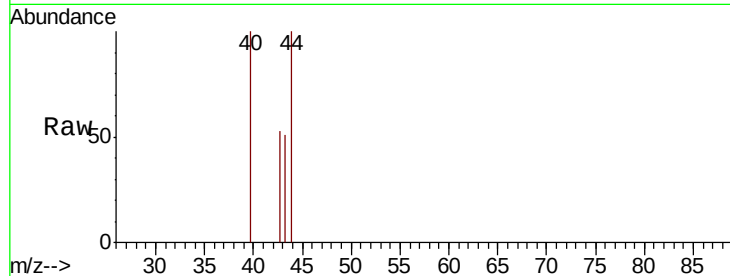




#18  
Methyl Acetate  
Concen: 3.306 ug/l  
RT: 3.66 min Scan# 227  
Delta R.T. 0.04 min  
Lab File: VD062365.D  
Acq: 15 May 2019 1:14

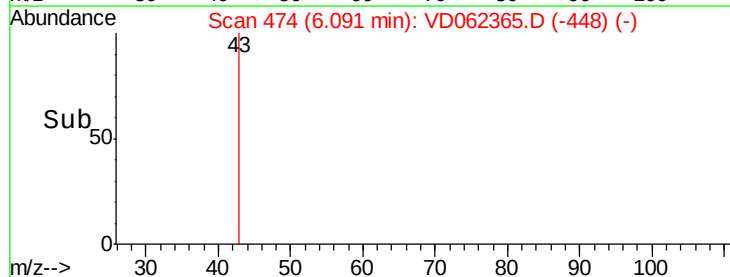
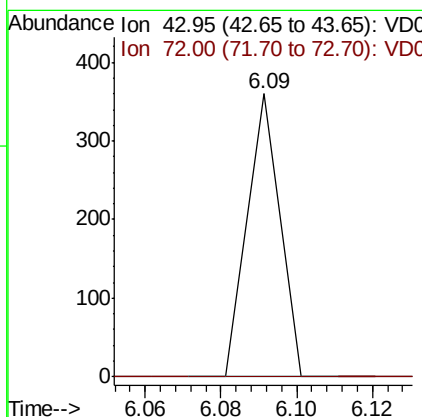
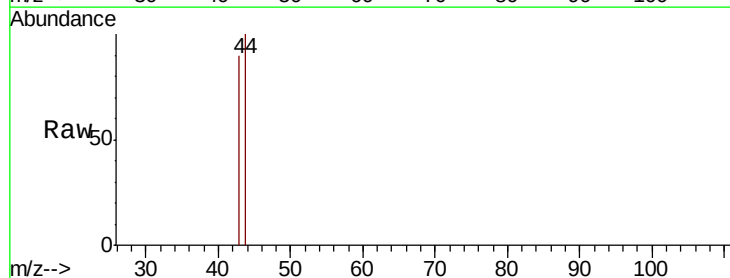
Instrument :  
MSVOA\_D  
ClientSampled :

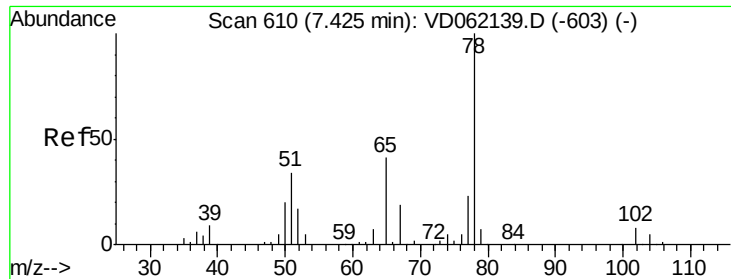
Tot Ion: 43 Resp: 582  
Ion Ratio Lower Upper  
43 100  
74 0.0 18.0 27.0#



#25  
2-Butanone  
Concen: 2.154 ug/l  
RT: 6.09 min Scan# 474  
Delta R.T. 0.05 min  
Lab File: VD062365.D  
Acq: 15 May 2019 1:14

Tgt Ion: 43 Resp: 213  
Ion Ratio Lower Upper  
43 100  
72 0.0 16.2 24.4#





#33

1,2-Dichloroethane-d4

Concen: 117.132 ug/l

RT: 7.47 min Scan# 614

Delta R.T. 0.04 min

Lab File: VD062365.D

Acq: 15 May 2019 1:14

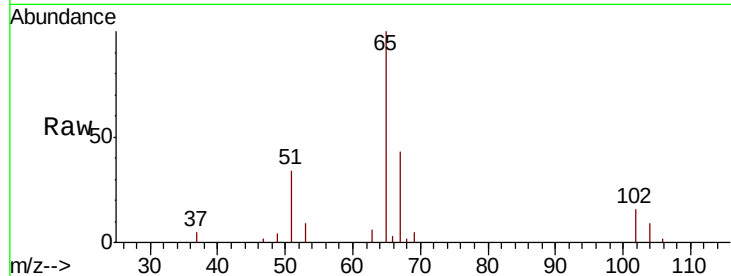
Instrument :  
MSVOA\_D  
ClientSampled :

Tot Ion: 65 Resp: 50635

Ion Ratio Lower Upper

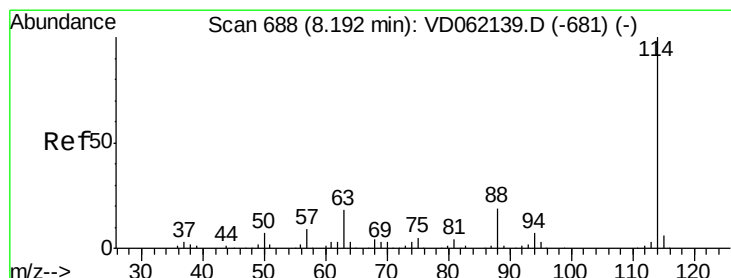
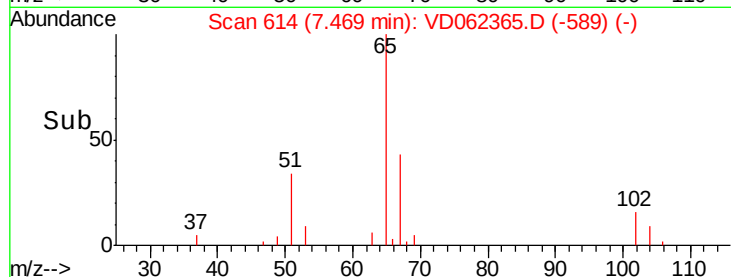
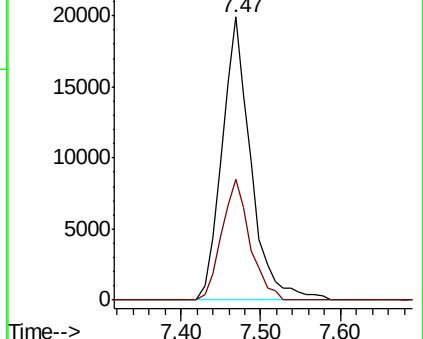
65 100

67 42.7 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: 8.23 min Scan# 691

Delta R.T. 0.03 min

Lab File: VD062365.D

Acq: 15 May 2019 1:14

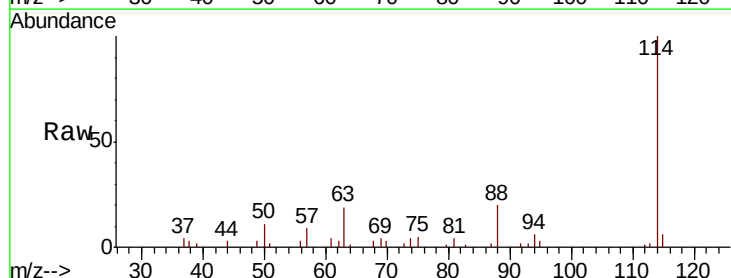
Tgt Ion: 114 Resp: 84001

Ion Ratio Lower Upper

114 100

63 19.2 0.0 32.4

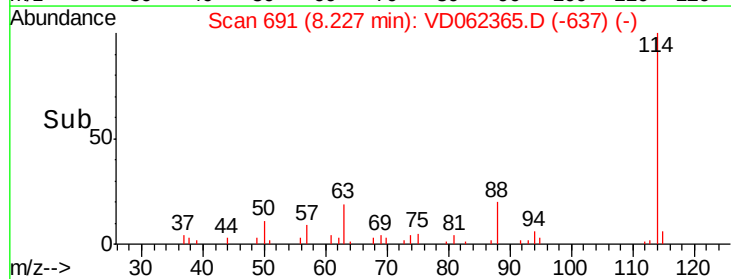
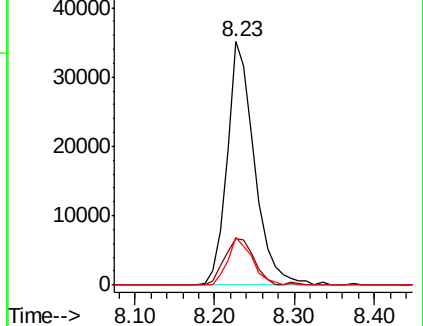
88 19.7 0.0 33.6

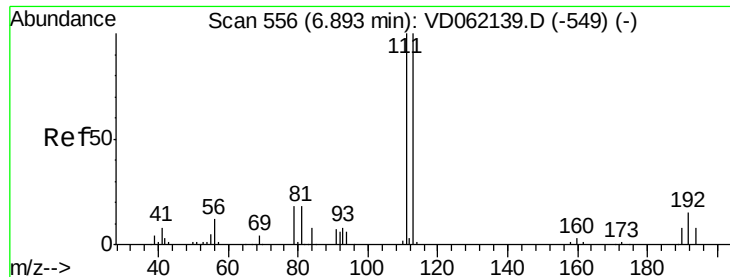


Abundance Ion 114.00 (113.70 to 114.70): VDC

Ion 62.95 (62.65 to 63.65): VDC

Ion 87.90 (87.60 to 88.60): VDC

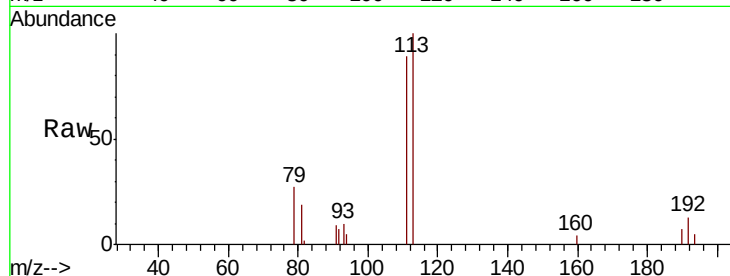




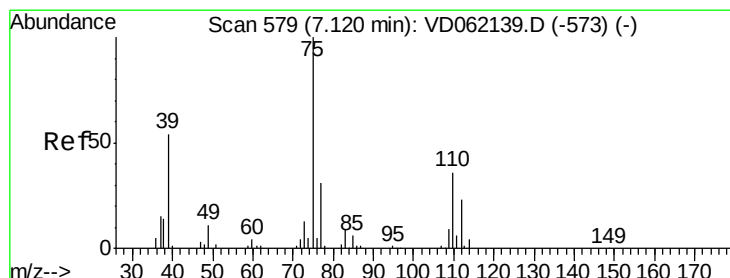
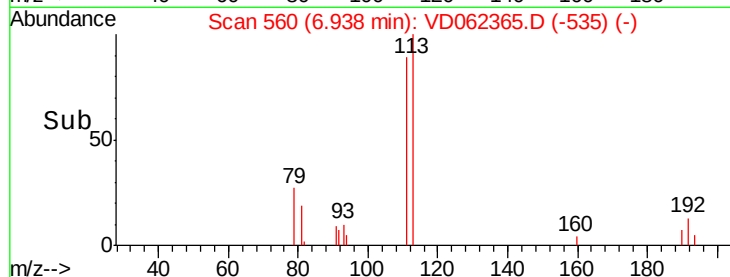
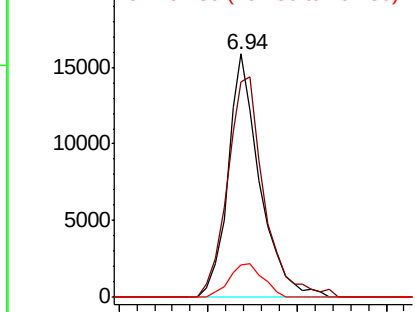
#35  
 Dibromofluoromethane  
 Concen: 56.821 ug/l  
 RT: 6.94 min Scan# 560  
 Delta R.T. 0.04 min  
 Lab File: VD062365.D  
 Acq: 15 May 2019 1:14

Instrument :  
 MSVOA\_D  
 ClientSampleId :

Tot Ion:113 Resp: 39602  
 Ion Ratio Lower Upper  
 113 100  
 111 88.6 78.5 117.7  
 192 13.3 13.0 19.4

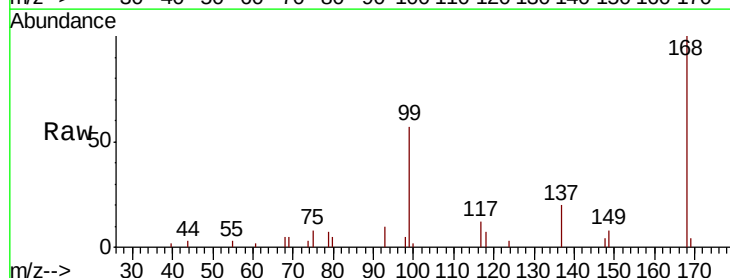


Abundance Ion 112.90 (112.60 to 113.60): V  
 Ion 110.90 (110.60 to 111.60): V  
 Ion 191.80 (191.50 to 192.50): V

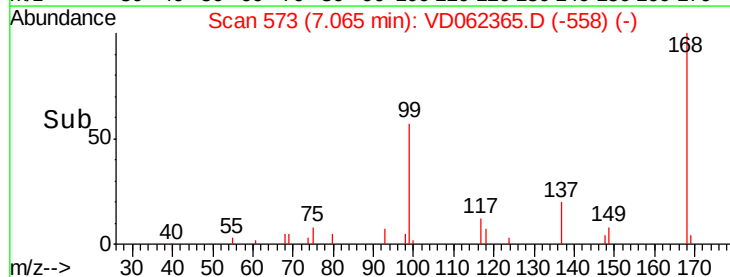
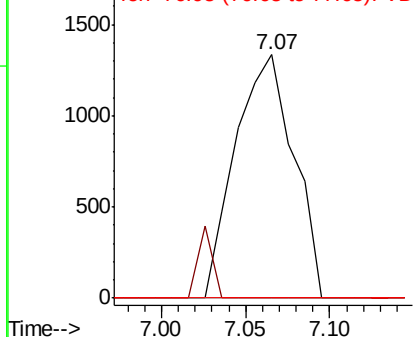


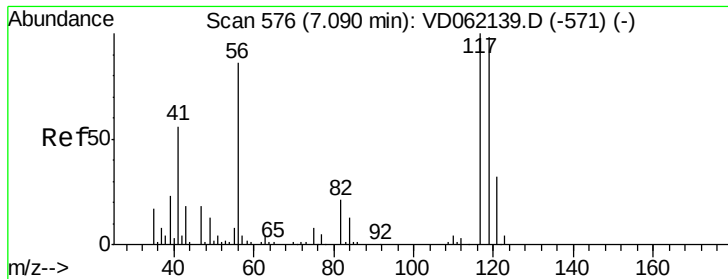
#36  
 1,1-Dichloropropene  
 Concen: 4.646 ug/l  
 RT: 7.07 min Scan# 573  
 Delta R.T. -0.05 min  
 Lab File: VD062365.D  
 Acq: 15 May 2019 1:14

Tgt Ion: 75 Resp: 3200  
 Ion Ratio Lower Upper  
 75 100  
 110 0.0 19.1 57.1#  
 77 0.0 25.6 38.4#



Abundance Ion 75.00 (74.70 to 75.70): VDC  
 Ion 109.90 (109.60 to 110.60): V  
 Ion 76.95 (76.65 to 77.65): VDC

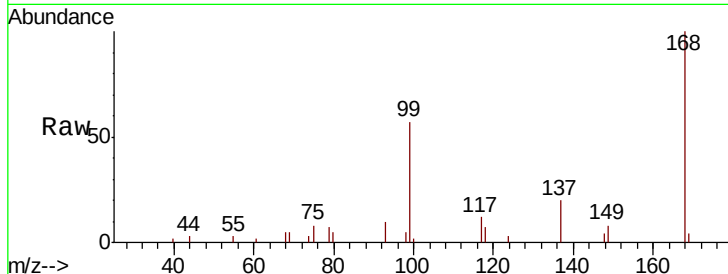




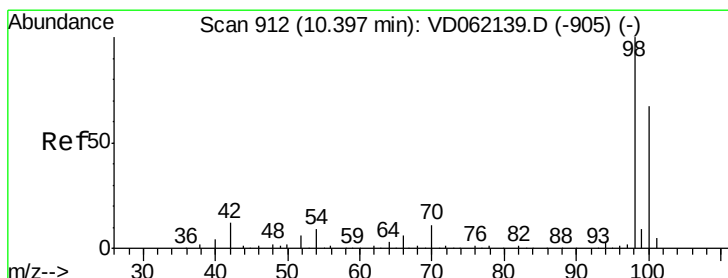
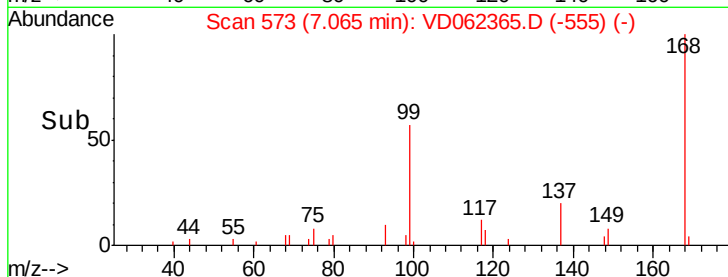
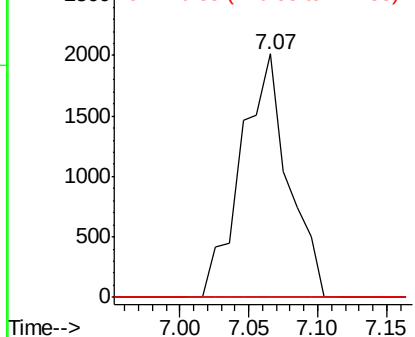
#38  
Carbon Tetrachloride  
Concen: 5.033 ug/l  
RT: 7.07 min Scan# 573  
Delta R.T. -0.02 min  
Lab File: VD062365.D  
Acq: 15 May 2019 1:14

Instrument :  
MSVOA\_D  
ClientSampleId :

Tot Ion:117 Resp: 4798  
Ion Ratio Lower Upper  
117 100  
119 0.0 75.8 113.8#  
121 0.0 25.9 38.9#

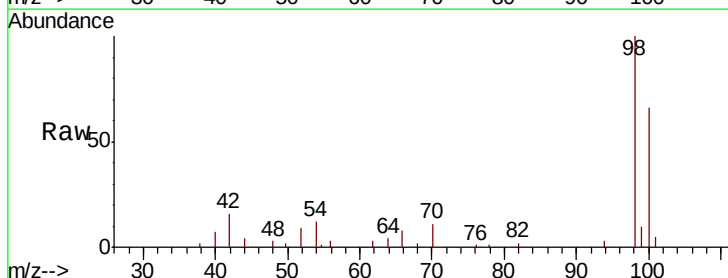


Abundance Ion 116.85 (116.55 to 117.55): V  
Ion 118.85 (118.55 to 119.55): V  
Ion 120.85 (120.55 to 121.55): V

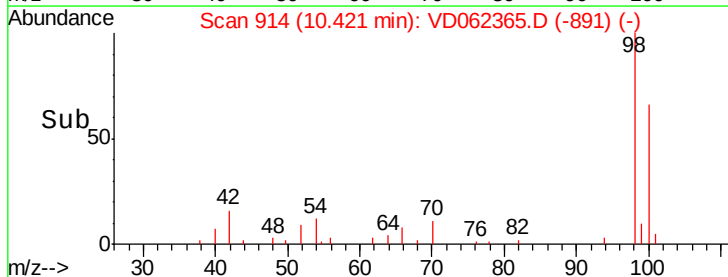
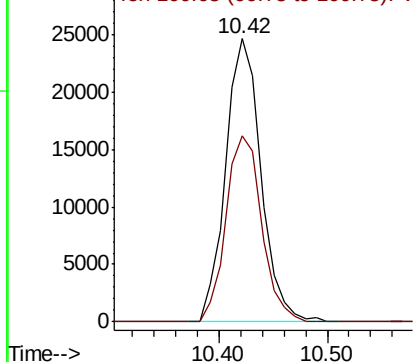


#50  
Toluene-d8  
Concen: 33.342 ug/l  
RT: 10.42 min Scan# 914  
Delta R.T. 0.02 min  
Lab File: VD062365.D  
Acq: 15 May 2019 1:14

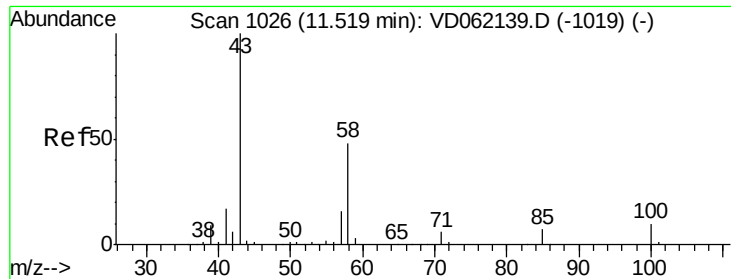
Tgt Ion: 98 Resp: 56029  
Ion Ratio Lower Upper  
98 100  
100 66.0 53.8 80.8



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







#59

2-Hexanone

Concen: 1.157 ug/l

RT: 11.59 min Scan# 1033

Delta R.T. 0.07 min

Lab File: VD062365.D

Acq: 15 May 2019 1:14

Instrument :

MSVOA\_D

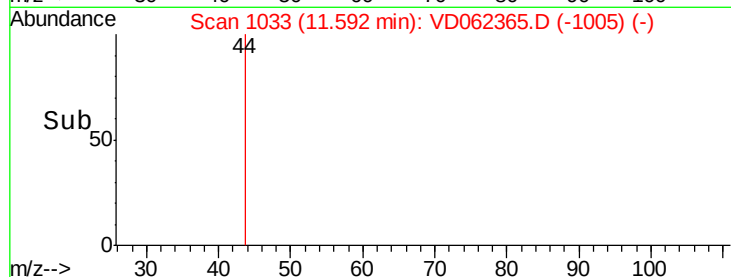
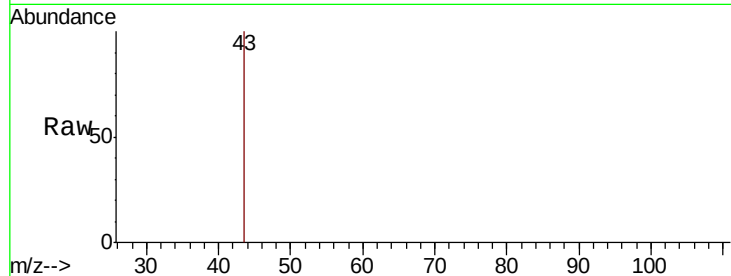
ClientSampleId :

Tot Ion: 43 Resp: 227

Ion Ratio Lower Upper

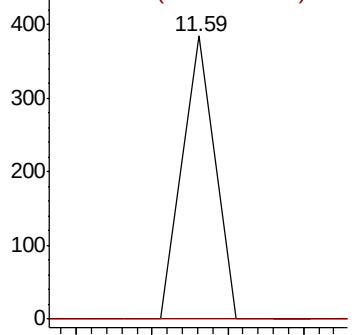
43 100

58 0.0 25.4 76.4#

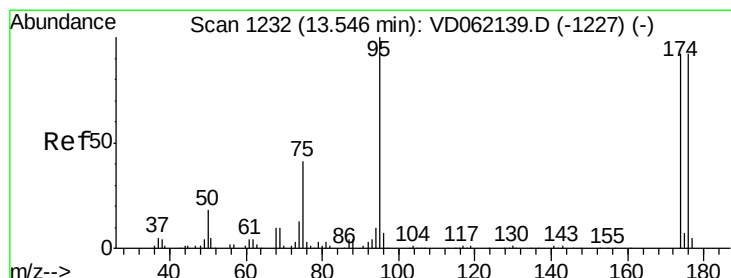


Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



Time-->



#62

4-Bromofluorobenzene

Concen: 44.194 ug/l

RT: 13.56 min Scan# 1233

Delta R.T. 0.01 min

Lab File: VD062365.D

Acq: 15 May 2019 1:14

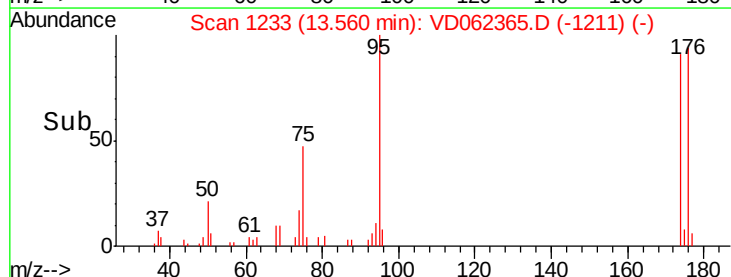
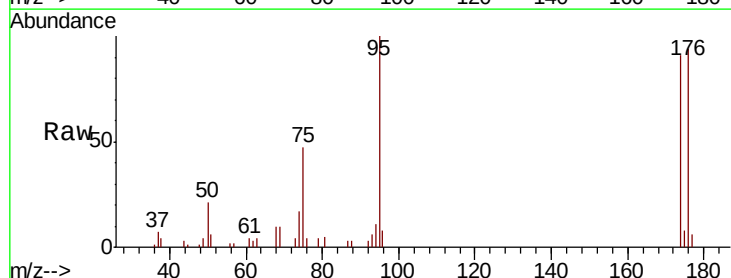
Tgt Ion: 95 Resp: 29822

Ion Ratio Lower Upper

95 100

174 90.8 0.0 181.8

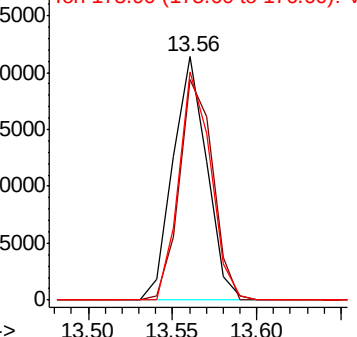
176 93.8 0.0 174.4



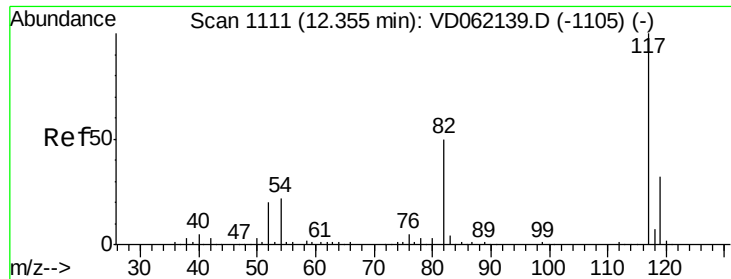
Abundance Ion 95.00 (94.70 to 95.70): VDC

Ion 173.90 (173.60 to 174.60): V

Ion 175.90 (175.60 to 176.60): V



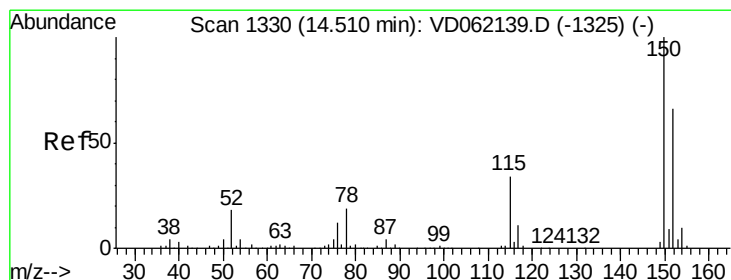
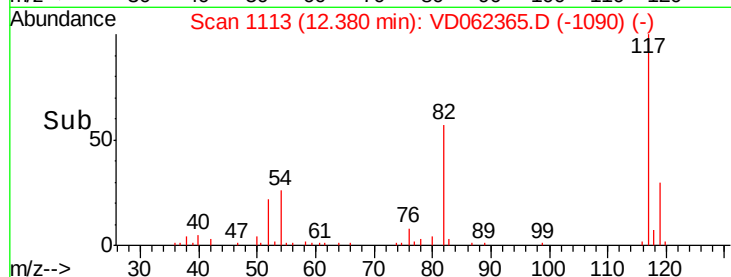
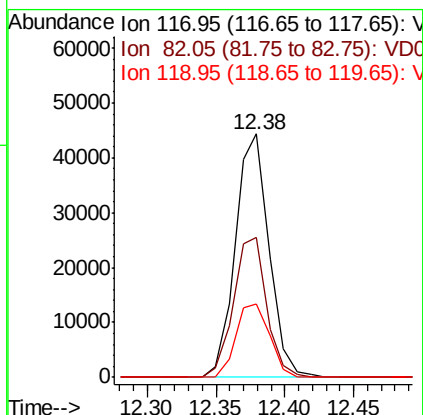
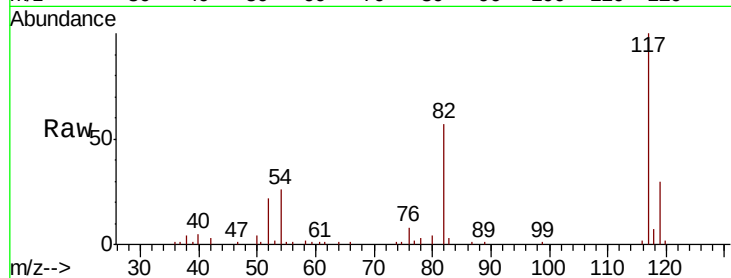
Time-->



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 12.38 min Scan# 1113  
Delta R.T. 0.02 min  
Lab File: VD062365.D  
Acq: 15 May 2019 1:14

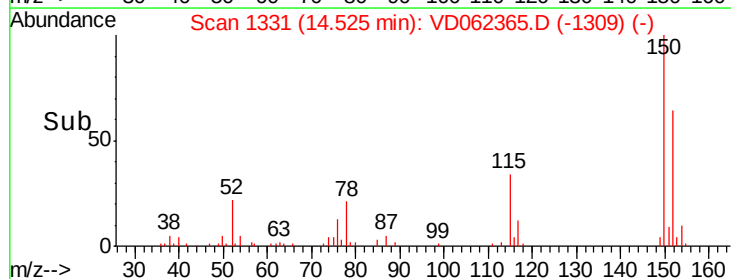
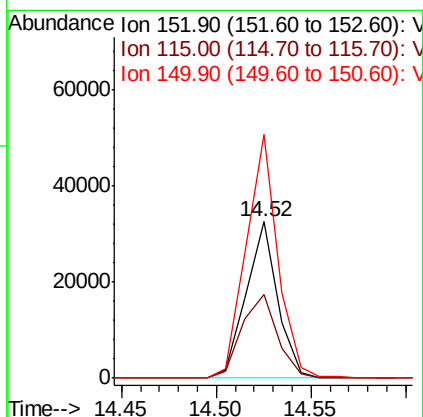
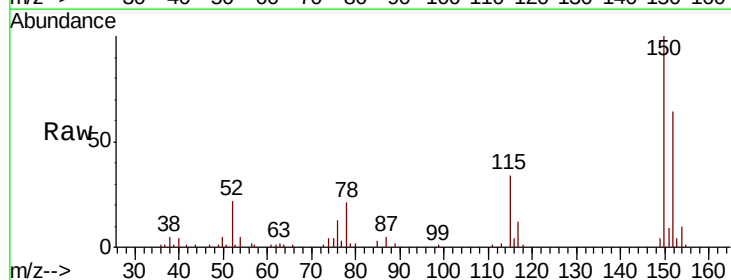
Instrument :  
MSVOA\_D  
ClientSampled :

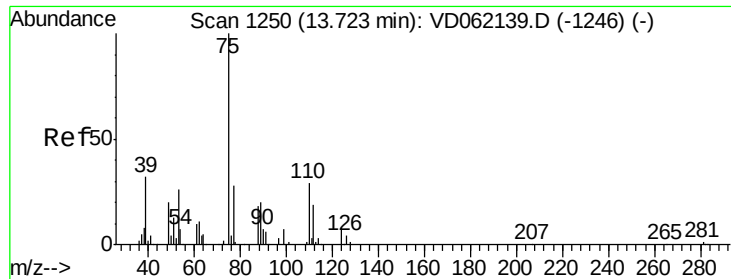
Tot Ion:117 Resp: 75362  
Ion Ratio Lower Upper  
117 100  
82 57.4 36.2 54.2#  
119 30.3 26.2 39.4



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 14.52 min Scan# 1331  
Delta R.T. 0.01 min  
Lab File: VD062365.D  
Acq: 15 May 2019 1:14

Tgt Ion:152 Resp: 37373  
Ion Ratio Lower Upper  
152 100  
115 53.5 30.9 92.7  
150 156.0 0.0 314.8

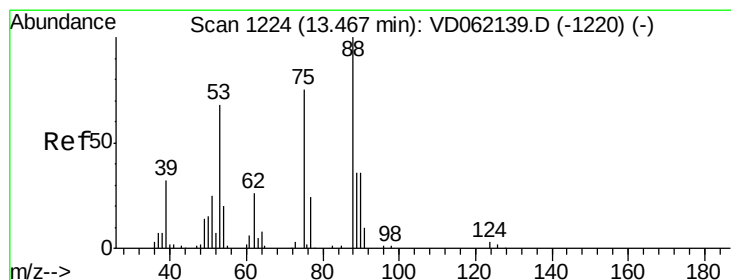
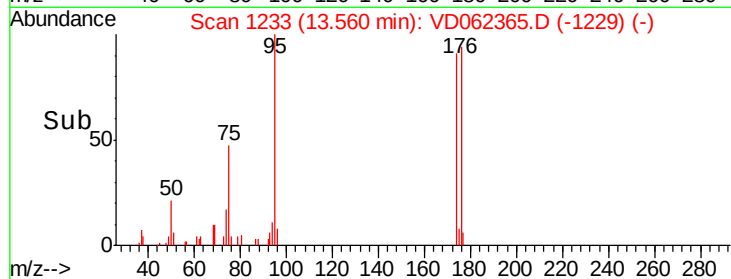
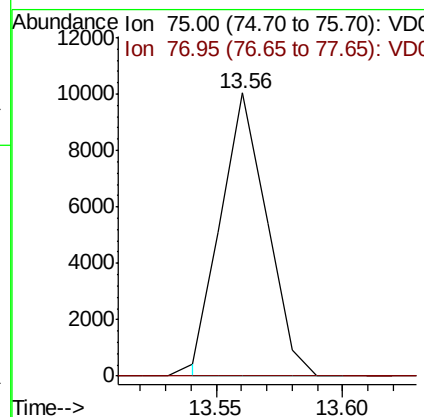
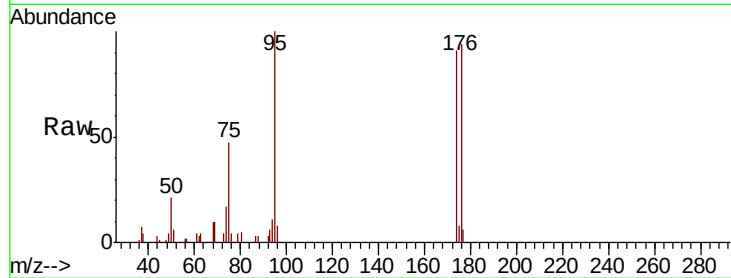




#76  
 1,2,3-Trichloropropane  
 Concen: 28.605 ug/l  
 RT: 13.56 min Scan# 1233  
 Delta R.T. -0.16 min  
 Lab File: VD062365.D  
 Acq: 15 May 2019 1:14

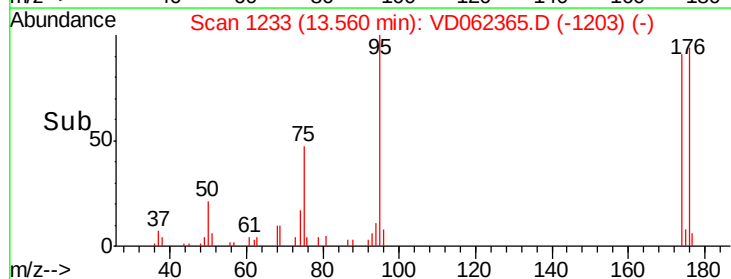
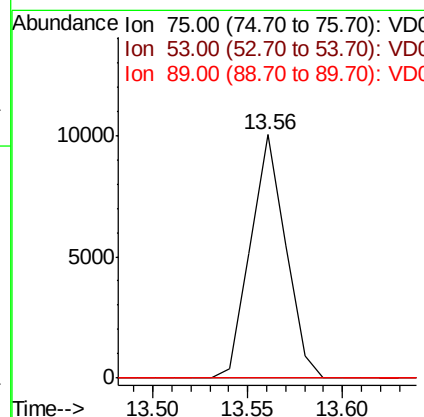
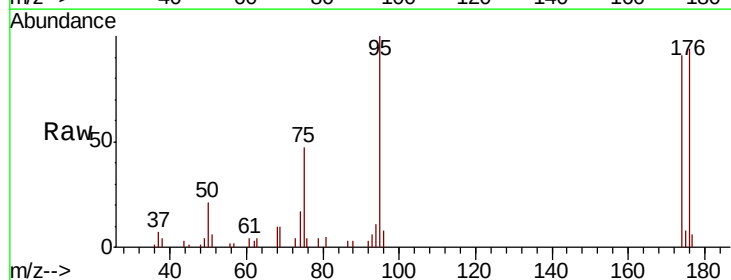
Instrument :  
 MSVOA\_D  
 ClientSampleId :

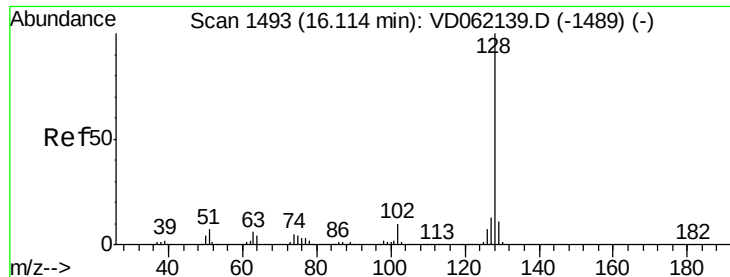
Tot Ion: 75 Resp: 12705  
 Ion Ratio Lower Upper  
 75 100  
 77 0.0 16.4 49.4#



#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 103.266 ug/l  
 RT: 13.56 min Scan# 1233  
 Delta R.T. 0.09 min  
 Lab File: VD062365.D  
 Acq: 15 May 2019 1:14

Tgt Ion: 75 Resp: 12948  
 Ion Ratio Lower Upper  
 75 100  
 53 0.0 65.8 98.8#  
 89 0.0 35.0 52.6#

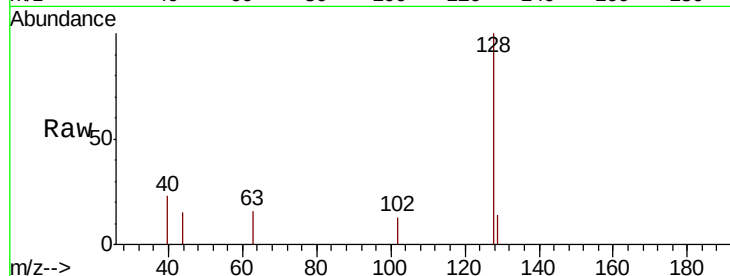




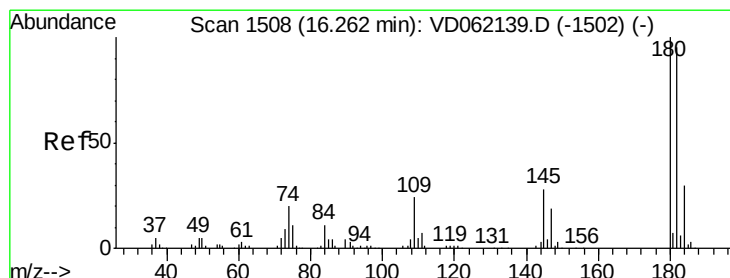
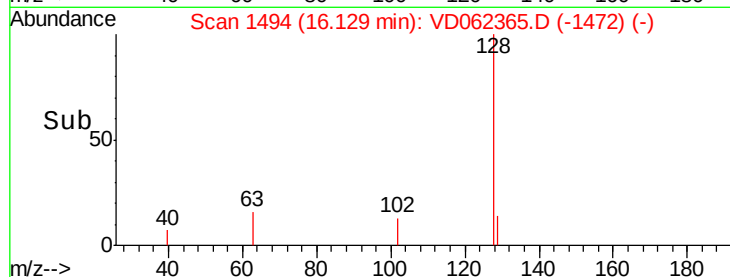
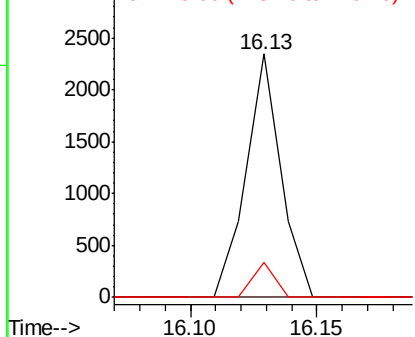
#95  
Naphthalene  
Concen: 2.342 ug/l  
RT: 16.13 min Scan# 1494  
Delta R.T. 0.01 min  
Lab File: VD062365.D  
Acq: 15 May 2019 1:14

Instrument :  
MSVOA\_D  
ClientSampleId :

Tot Ion:128 Resp: 2245  
Ion Ratio Lower Upper  
128 100  
127 0.0 9.8 14.8#  
129 14.4 8.8 13.2#

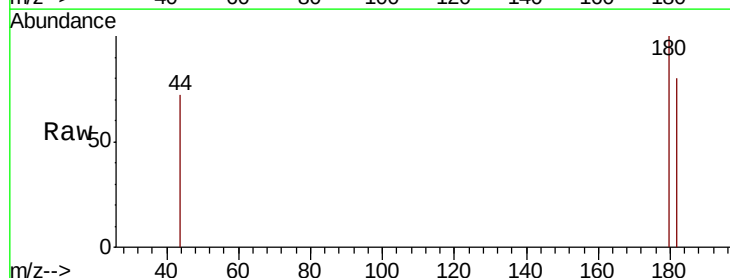


Abundance Ion 128.00 (127.70 to 128.70): V  
Ion 127.00 (126.70 to 127.70): V  
Ion 129.00 (128.70 to 129.70): V



#96  
1,2,3-Trichlorobenzene  
Concen: 2.318 ug/l  
RT: 16.28 min Scan# 1509  
Delta R.T. 0.01 min  
Lab File: VD062365.D  
Acq: 15 May 2019 1:14

Tgt Ion:180 Resp: 1001  
Ion Ratio Lower Upper  
180 100  
182 79.7 47.0 141.0  
145 0.0 17.0 51.0#



Abundance Ion 179.85 (179.55 to 180.55): V  
Ion 181.85 (181.55 to 182.55): V  
Ion 144.95 (144.65 to 145.65): V

