

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_D\DATA\VD011720\  
 Data File : VD064866.D  
 Acq On : 17 Jan 2020 16:41  
 Operator : VA/SY  
 Sample : L1136-06  
 Misc : 4.89G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 EP-4

Quant Time: Jan 17 22:53:35 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D122419S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Dec 24 13:19:06 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.98  | 168  | 404599   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.87  | 114  | 663469   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.65 | 117  | 613484   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.58 | 152  | 288686   | 50.00 | ug/l  | 0.00     |

|                             |        |     |          |       |         |      |
|-----------------------------|--------|-----|----------|-------|---------|------|
| System Monitoring Compounds |        |     |          |       |         |      |
| 33) 1,2-Dichloroethane-d4   | 8.34   | 65  | 210449   | 58.99 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 117.98% |      |
| 35) Dibromofluoromethane    | 7.92   | 113 | 212069   | 52.10 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 104.20% |      |
| 50) Toluene-d8              | 10.34  | 98  | 803582   | 51.55 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 103.10% |      |
| 62) 4-Bromofluorobenzene    | 12.64  | 95  | 248646   | 50.44 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 100.88% |      |

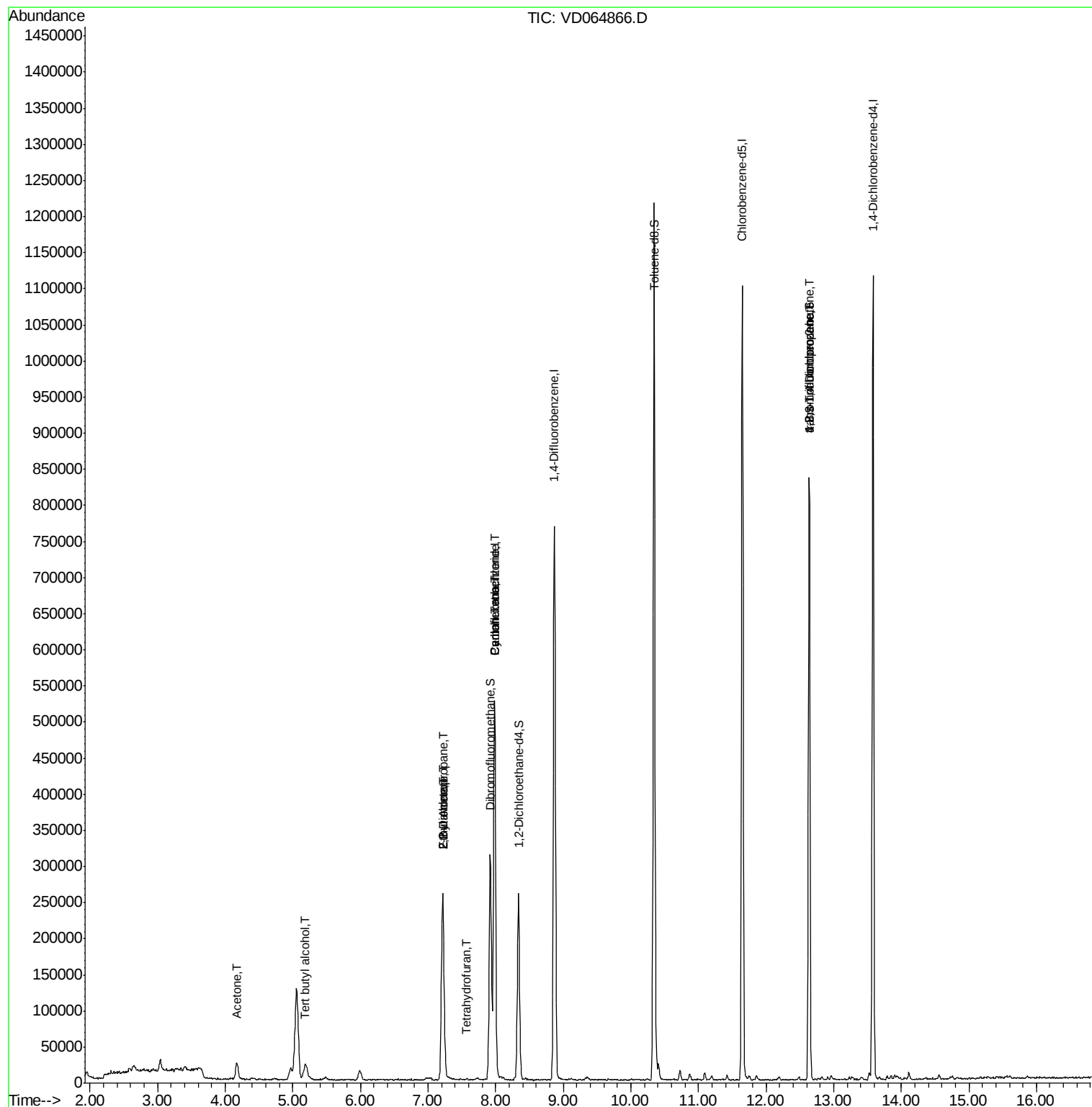
| Target Compounds               |       |     |        |           |        | Qvalue |
|--------------------------------|-------|-----|--------|-----------|--------|--------|
| 11) Tert butyl alcohol         | 5.19  | 59  | 24506  | 119.85    | ug/l # | 72     |
| 16) Acetone                    | 4.17  | 43  | 41549  | 53.80     | ug/l # | 85     |
| 20) Methylene Chloride         | 4.98  | 84  | 11539  | Below Cal | #      | 90     |
| 25) 2-Butanone                 | 7.22  | 43  | 14381  | 14.66     | ug/l # | 72     |
| 26) 2,2-Dichloropropane        | 7.23  | 77  | 17782  | 2.88      | ug/l # | 53     |
| 29) Tetrahydrofuran            | 7.58  | 42  | 856    | 1.40      | ug/l # | 44     |
| 31) Cyclohexane                | 7.99  | 56  | 10310  | 1.55      | ug/l # | 51     |
| 37) Ethyl Acetate              | 7.22  | 43  | 14381  | 5.73      | ug/l # | 1      |
| 38) Carbon Tetrachloride       | 7.98  | 117 | 37403  | 5.49      | ug/l # | 16     |
| 76) 1,2,3-Trichloropropane     | 12.64 | 75  | 135750 | 59.55     | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.64 | 75  | 135750 | 124.54    | ug/l # | 10     |

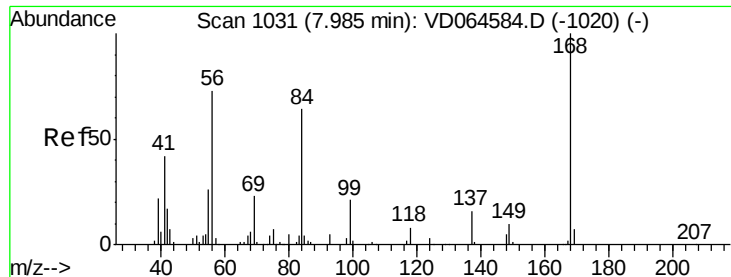
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Instrument :  
MSVOA\_D  
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EP-4

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_D\METHOD\82D122419S.M  
Quant Title : SW846 8260  
QLast Update : Tue Dec 24 13:19:06 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. 0.00 min

Lab File: VD064866.D

Acq: 17 Jan 2020 16:41

Instrument :

MSVOA\_D

ClientSampleId :

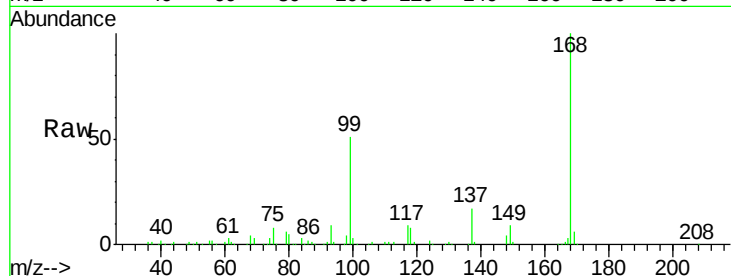
EP-4

Tgt Ion:168 Resp: 404599

Ion Ratio Lower Upper

168 100

99 51.2 41.8 62.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC

7.98

200000

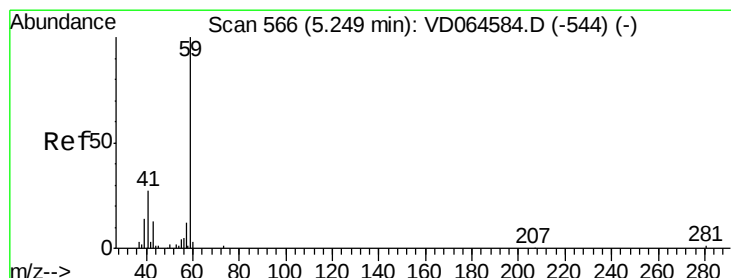
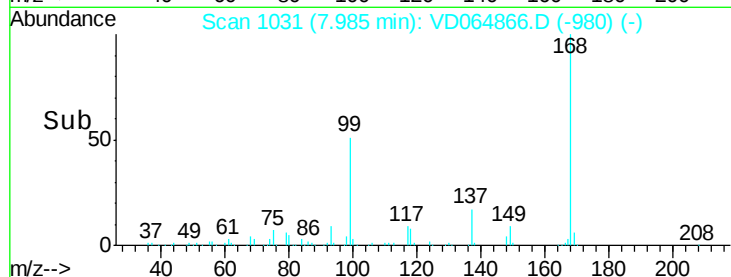
150000

100000

50000

0

Time-->



#11

Tert butyl alcohol

Concen: 119.85 ug/l

RT: 5.19 min Scan# 555

Delta R.T. -0.06 min

Lab File: VD064866.D

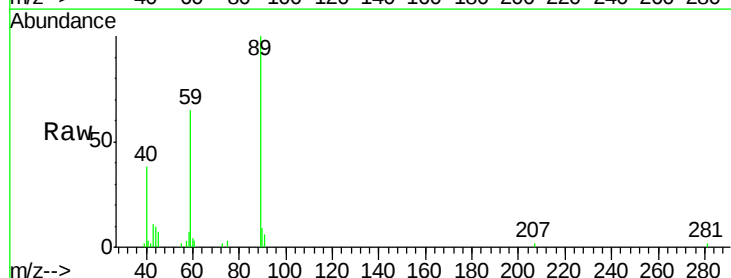
Acq: 17 Jan 2020 16:41

Tgt Ion: 59 Resp: 24506

Ion Ratio Lower Upper

59 100

57 0.9 9.3 13.9#



Abundance Ion 59.00 (58.70 to 59.70): VDC

Ion 57.00 (56.70 to 57.70): VDC

5.19

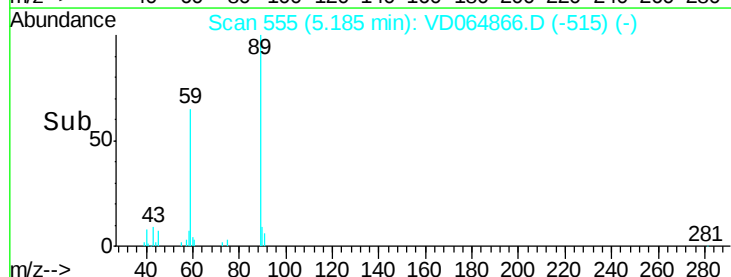
6000

4000

2000

0

Time-->





#16

Acetone

Concen: 53.80 ug/l

RT: 4.17 min Scan# 382

Delta R.T. 0.00 min

Lab File: VD064866.D

Acq: 17 Jan 2020 16:41

Instrument :

MSVOA\_D

ClientSampled :

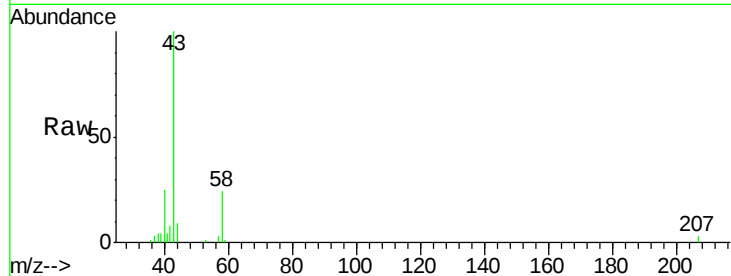
EP-4

Tgt Ion: 43 Resp: 41549

Ion Ratio Lower Upper

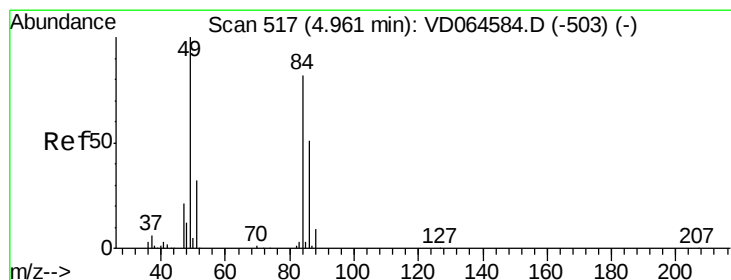
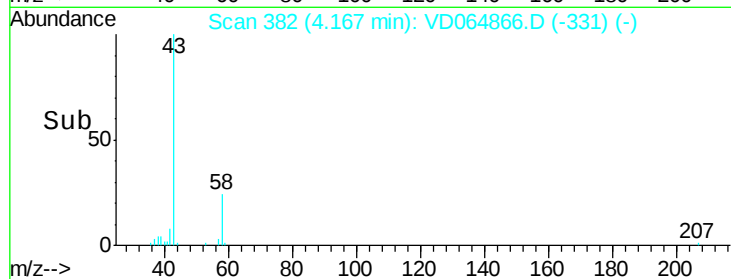
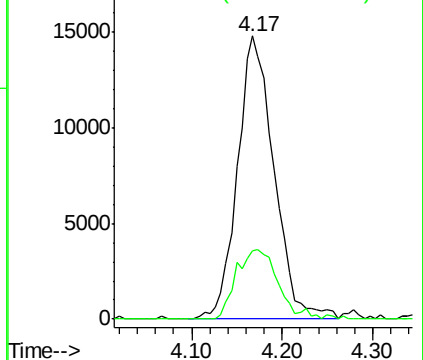
43 100

58 24.1 25.8 38.6#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC



#20

Methylene Chloride

Concen: Below Cal

RT: 4.98 min Scan# 520

Delta R.T. 0.02 min

Lab File: VD064866.D

Acq: 17 Jan 2020 16:41

Tgt Ion: 84 Resp: 11539

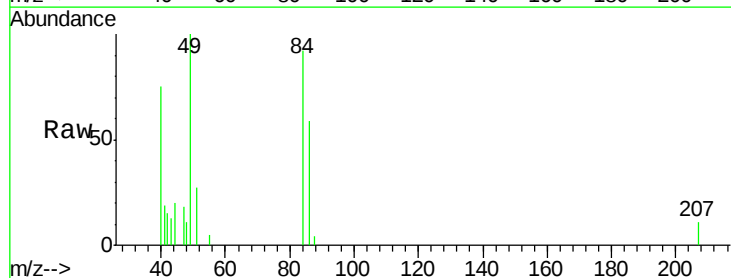
Ion Ratio Lower Upper

84 100

49 108.8 97.2 145.8

51 29.8 31.4 47.0#

86 64.5 49.3 73.9

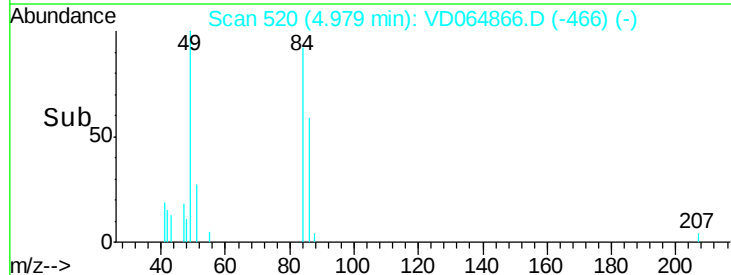
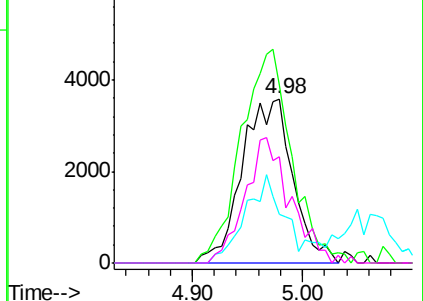


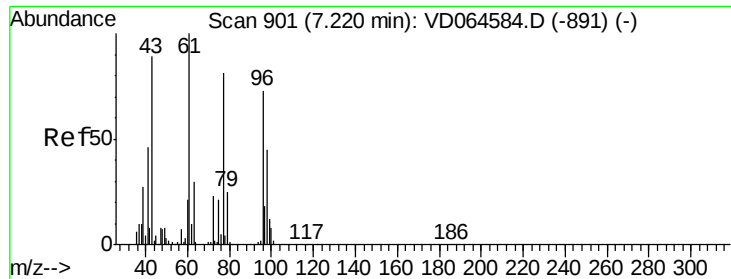
Abundance Ion 83.90 (83.60 to 84.60): VDC

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





#25

2-Butanone

Concen: 14.66 ug/l

RT: 7.22 min Scan# 901

Delta R.T. 0.00 min

Lab File: VD064866.D

Acq: 17 Jan 2020 16:41

Instrument :

MSVOA\_D

ClientSampleId :

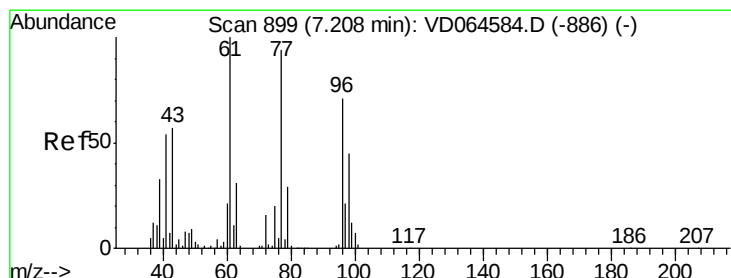
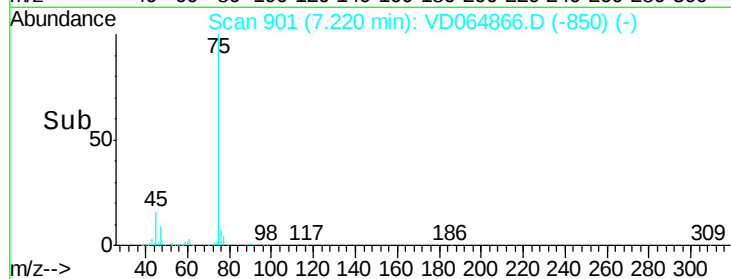
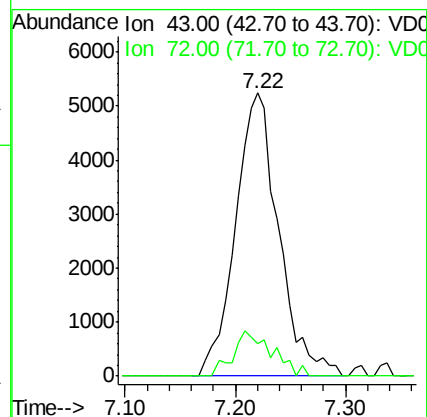
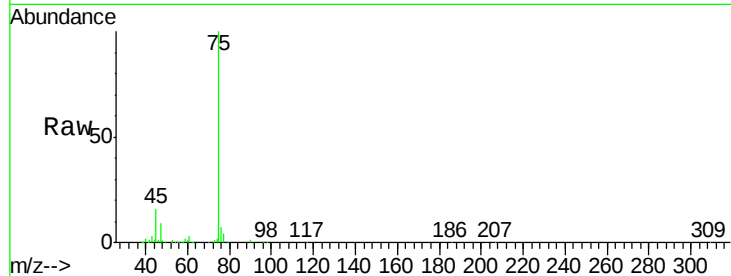
EP-4

Tgt Ion: 43 Resp: 14381

Ion Ratio Lower Upper

43 100

72 11.6 20.7 31.1#



#26

2,2-Dichloropropane

Concen: 2.88 ug/l

RT: 7.23 min Scan# 902

Delta R.T. 0.02 min

Lab File: VD064866.D

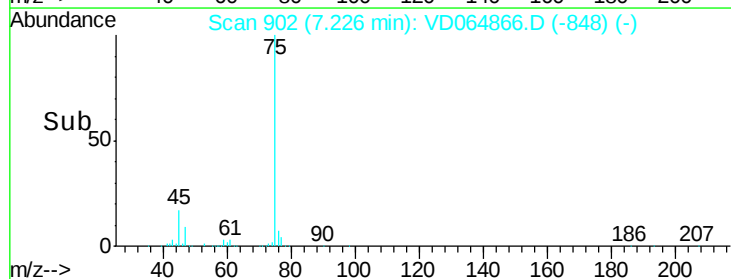
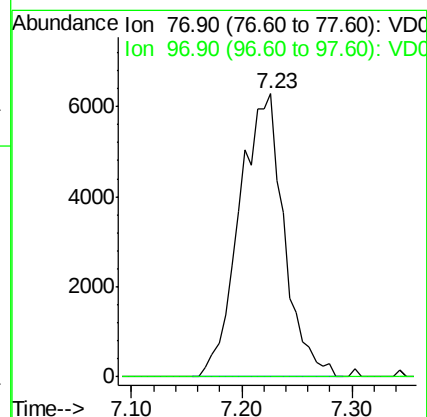
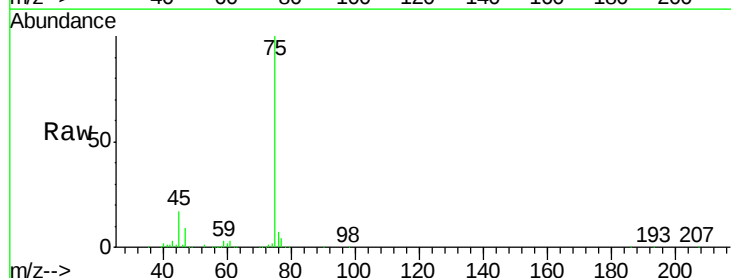
Acq: 17 Jan 2020 16:41

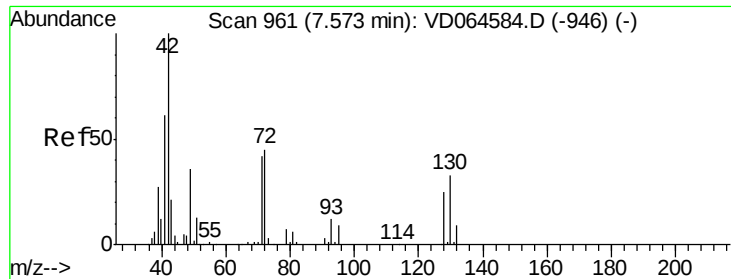
Tgt Ion: 77 Resp: 17782

Ion Ratio Lower Upper

77 100

97 0.0 11.2 33.6#

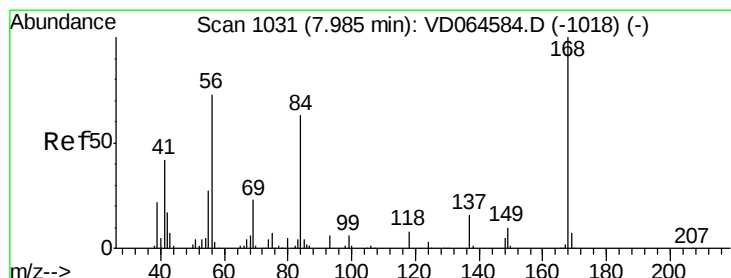
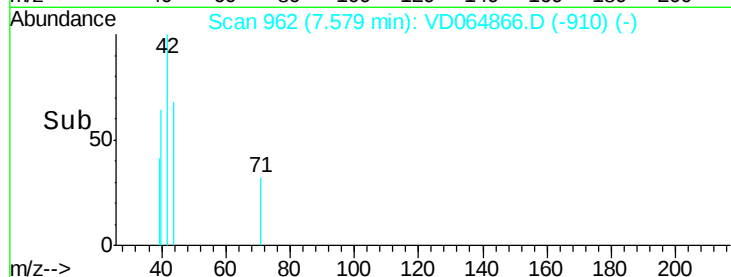
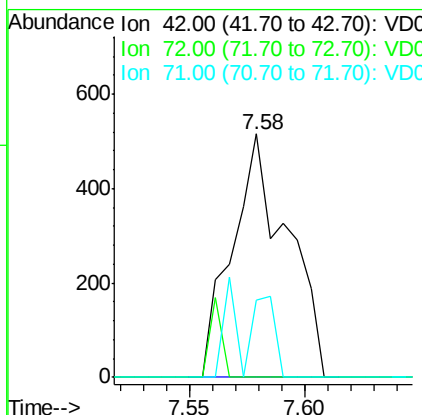
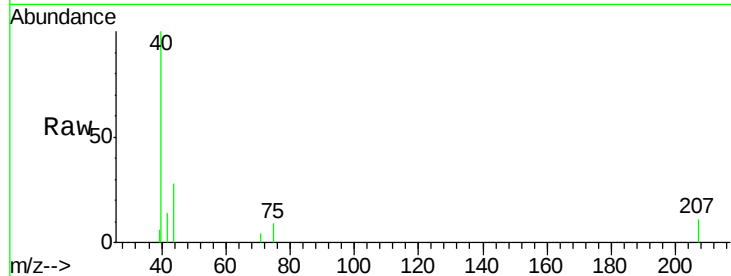




#29  
Tetrahydrofuran  
Concen: 1.40 ug/l  
RT: 7.58 min Scan# 962  
Delta R.T. 0.01 min  
Lab File: VD064866.D  
Acq: 17 Jan 2020 16:41

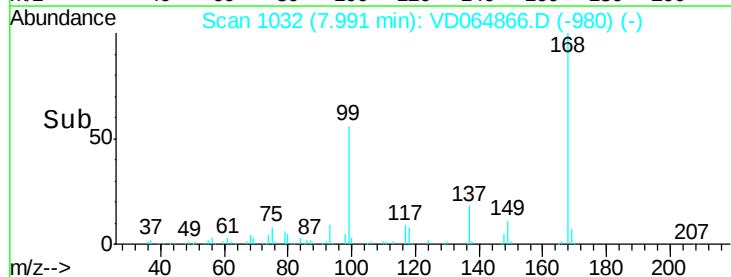
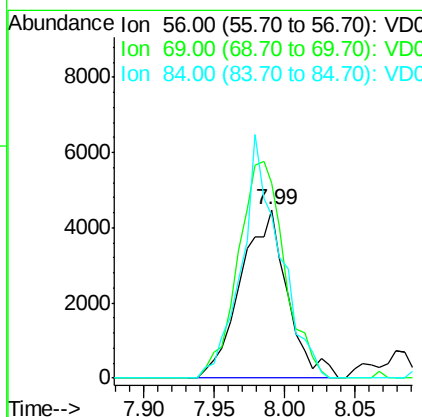
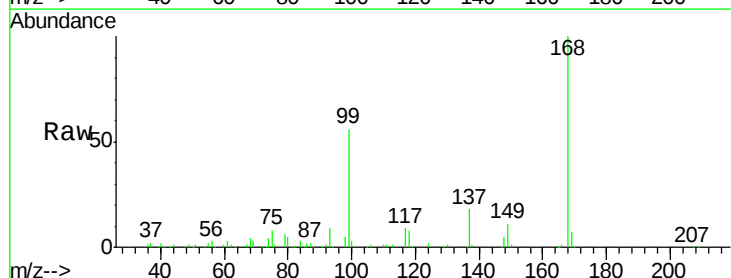
Instrument :  
MSVOA\_D  
ClientSampleId :  
EP-4

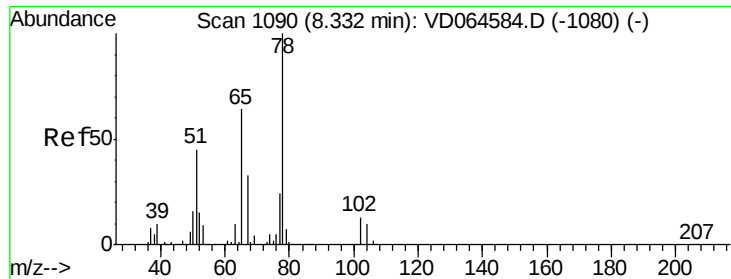
Tgt Ion: 42 Resp: 856  
Ion Ratio Lower Upper  
42 100  
72 0.0 35.0 52.4#  
71 13.8 32.9 49.3#



#31  
Cyclohexane  
Concen: 1.55 ug/l  
RT: 7.99 min Scan# 1032  
Delta R.T. 0.01 min  
Lab File: VD064866.D  
Acq: 17 Jan 2020 16:41

Tgt Ion: 56 Resp: 10310  
Ion Ratio Lower Upper  
56 100  
69 116.0 24.7 37.1#  
84 97.0 69.4 104.2

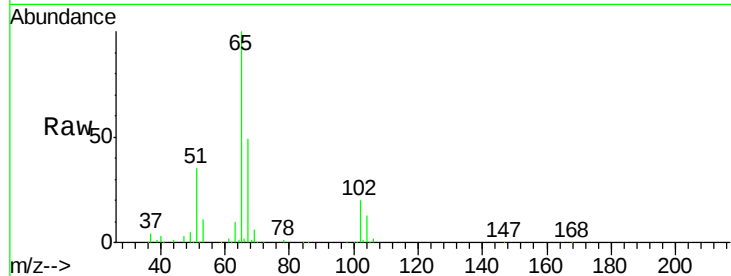




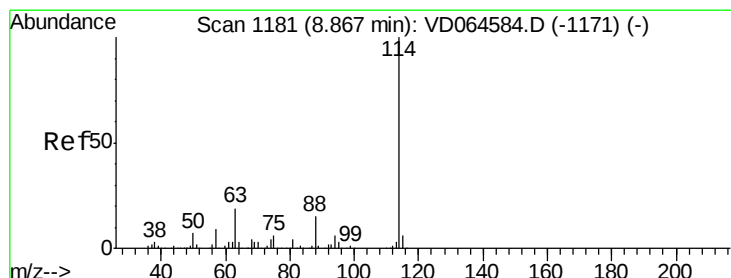
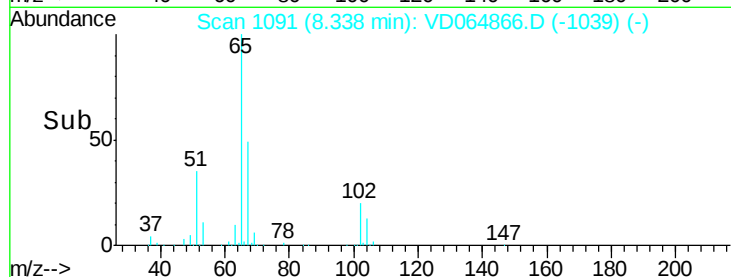
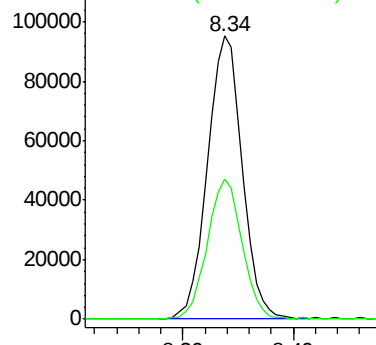
#33  
 1,2-Dichloroethane-d4  
 Concen: 58.99 ug/l  
 RT: 8.34 min Scan# 1091  
 Delta R.T. 0.01 min  
 Lab File: VD064866.D  
 Acq: 17 Jan 2020 16:41

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 EP-4

Tgt Ion: 65 Resp: 210449  
 Ion Ratio Lower Upper  
 65 100  
 67 49.5 0.0 106.2

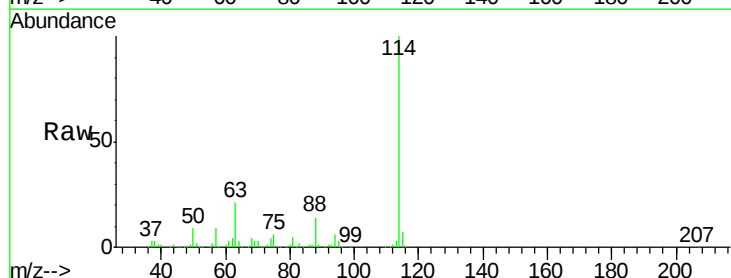


Abundance Ion 64.90 (64.60 to 65.60): VDC  
 Ion 66.90 (66.60 to 67.60): VDC

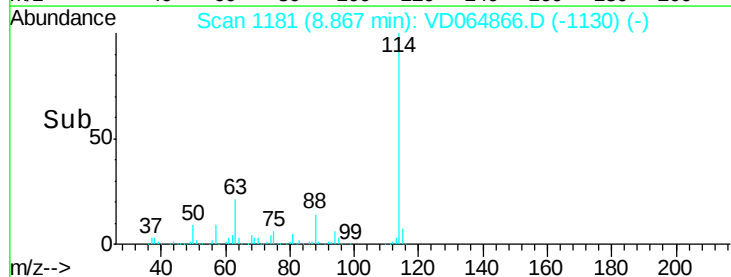
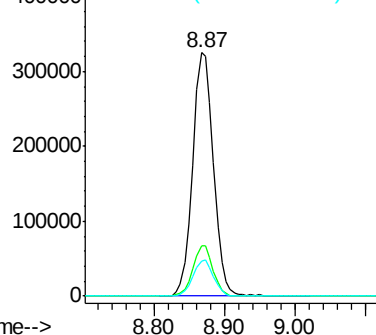


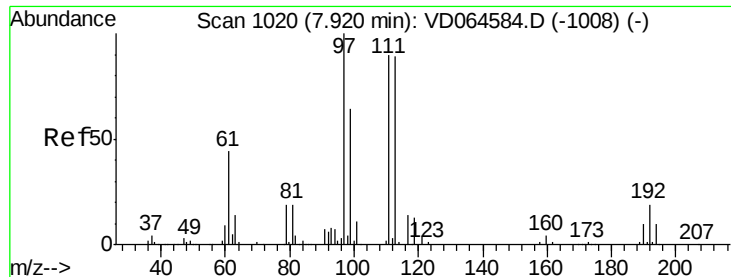
#34  
 1,4-Difluorobenzene  
 Concen: 50.00 ug/l  
 RT: 8.87 min Scan# 1181  
 Delta R.T. 0.00 min  
 Lab File: VD064866.D  
 Acq: 17 Jan 2020 16:41

Tgt Ion: 114 Resp: 663469  
 Ion Ratio Lower Upper  
 114 100  
 63 20.6 0.0 38.0  
 88 14.3 0.0 29.2



Abundance Ion 113.90 (113.60 to 114.60): VDC  
 Ion 63.00 (62.70 to 63.70): VDC  
 Ion 87.90 (87.60 to 88.60): VDC

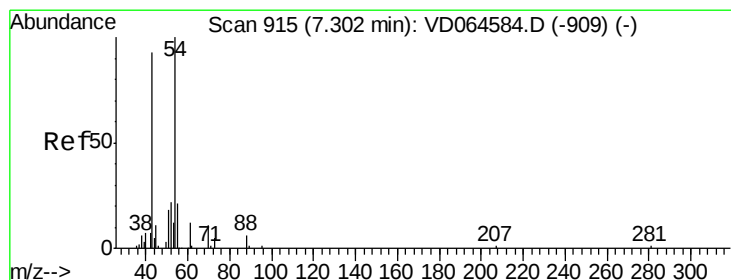
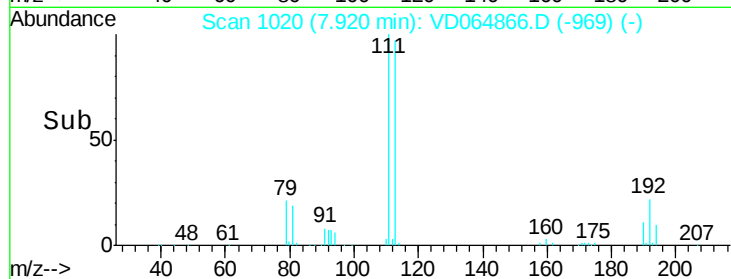
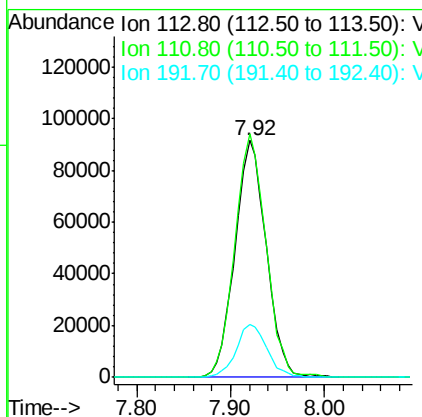
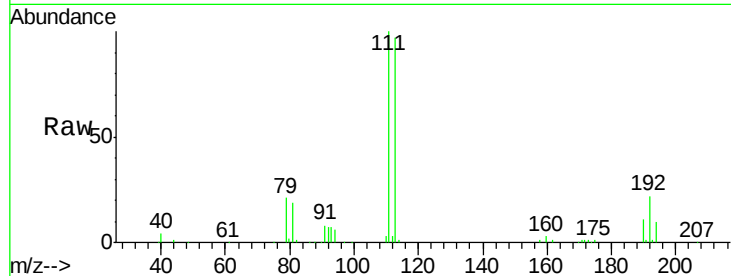




#35  
 Dibromofluoromethane  
 Concen: 52.10 ug/l  
 RT: 7.92 min Scan# 1020  
 Delta R.T. 0.00 min  
 Lab File: VD064866.D  
 Acq: 17 Jan 2020 16:41

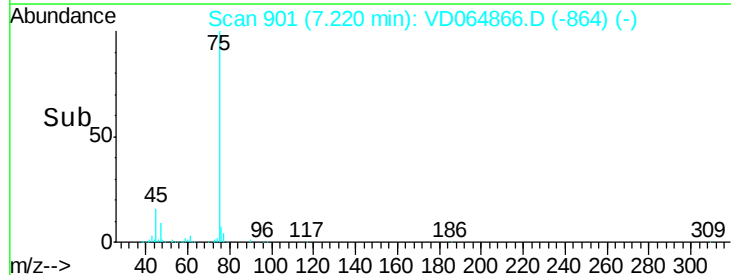
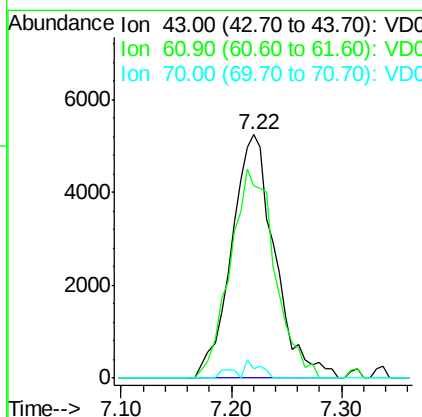
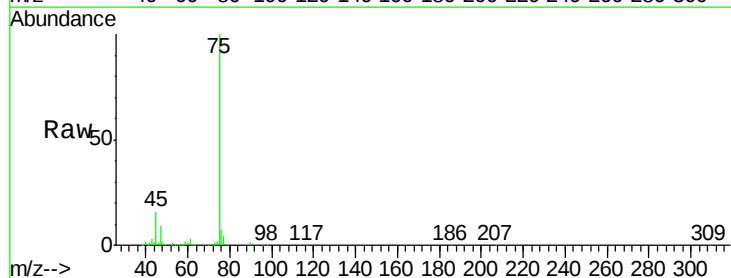
Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 EP-4

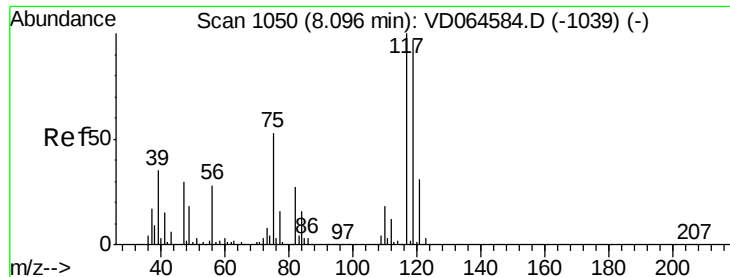
Tgt Ion: 113 Resp: 212069  
 Ion Ratio Lower Upper  
 113 100  
 111 102.3 80.6 121.0  
 192 21.8 17.9 26.9



#37  
 Ethyl Acetate  
 Concen: 5.73 ug/l  
 RT: 7.22 min Scan# 901  
 Delta R.T. -0.08 min  
 Lab File: VD064866.D  
 Acq: 17 Jan 2020 16:41

Tgt Ion: 43 Resp: 14381  
 Ion Ratio Lower Upper  
 43 100  
 61 88.3 10.3 15.5#  
 70 2.6 7.6 11.4#

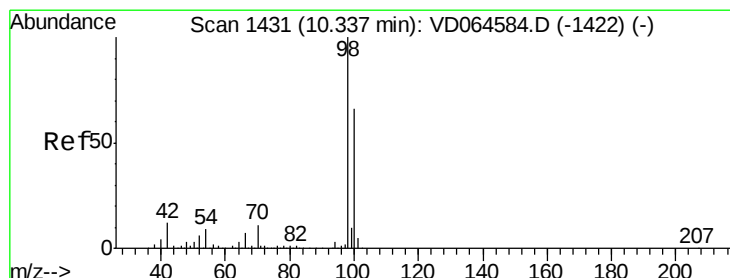
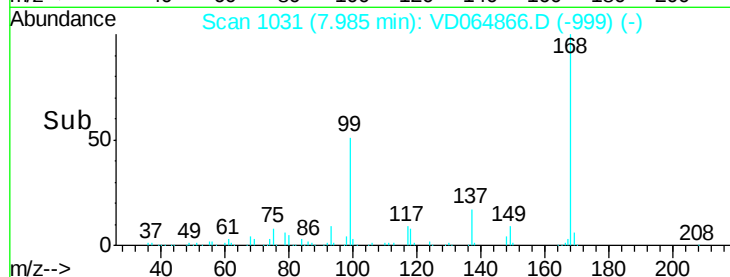
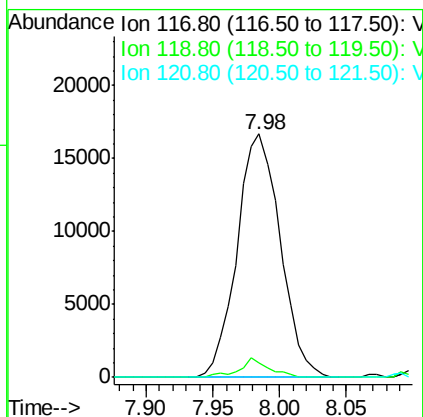
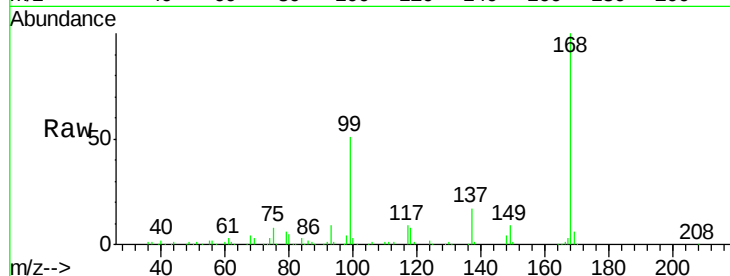




#38  
Carbon Tetrachloride  
Concen: 5.49 ug/l  
RT: 7.98 min Scan# 1031  
Delta R.T. -0.11 min  
Lab File: VD064866.D  
Acq: 17 Jan 2020 16:41

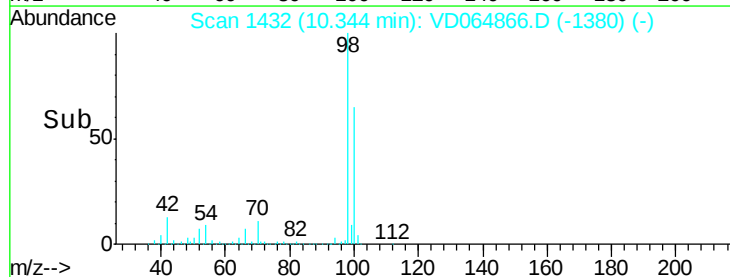
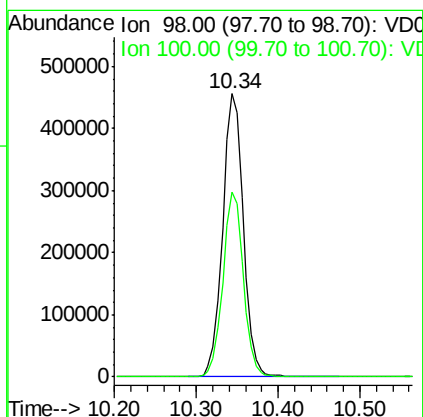
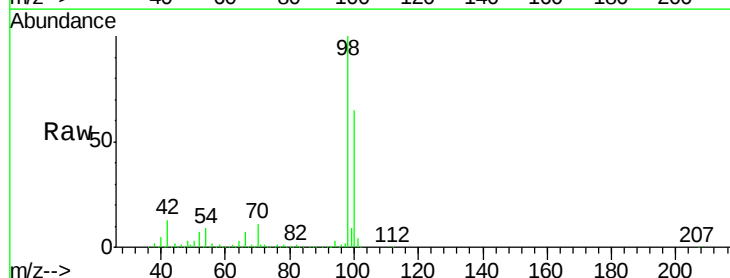
Instrument :  
MSVOA\_D  
ClientSampled :  
EP-4

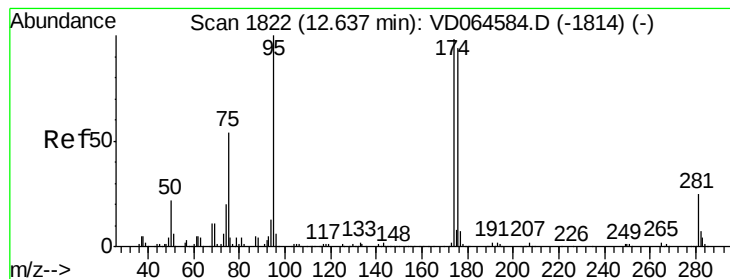
Tgt Ion:117 Resp: 37403  
Ion Ratio Lower Upper  
117 100  
119 5.8 77.3 115.9#  
121 0.0 25.0 37.6#



#50  
Toluene-d8  
Concen: 51.55 ug/l  
RT: 10.34 min Scan# 1432  
Delta R.T. 0.01 min  
Lab File: VD064866.D  
Acq: 17 Jan 2020 16:41

Tgt Ion: 98 Resp: 803582  
Ion Ratio Lower Upper  
98 100  
100 64.4 51.7 77.5





#62

4-Bromofluorobenzene

Concen: 50.44 ug/l

RT: 12.64 min Scan# 1823

Delta R.T. 0.01 min

Lab File: VD064866.D

Acq: 17 Jan 2020 16:41

Instrument :

MSVOA\_D

ClientSampleId :

EP-4

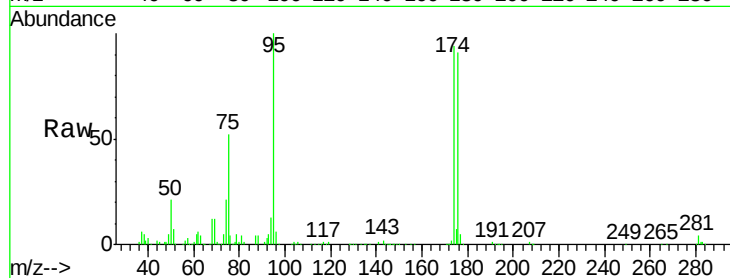
Tgt Ion: 95 Resp: 248646

Ion Ratio Lower Upper

95 100

174 92.6 0.0 193.2

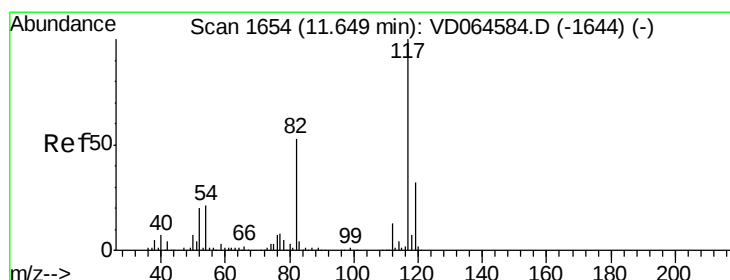
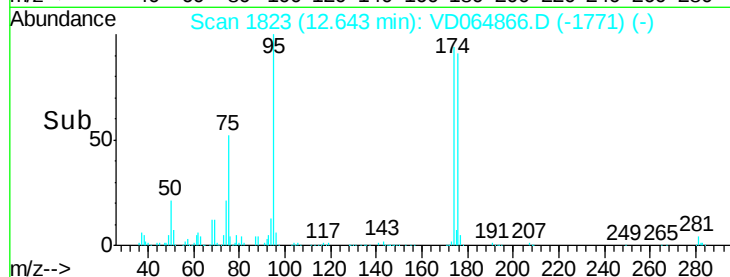
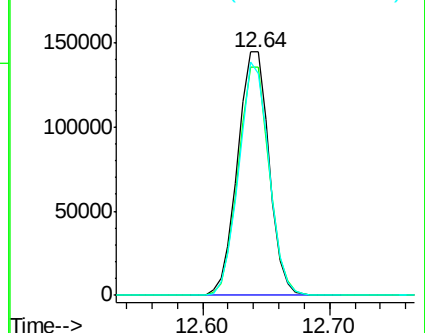
176 91.8 0.0 184.2



Abundance Ion 94.90 (94.60 to 95.60): V

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 11.65 min Scan# 1654

Delta R.T. 0.00 min

Lab File: VD064866.D

Acq: 17 Jan 2020 16:41

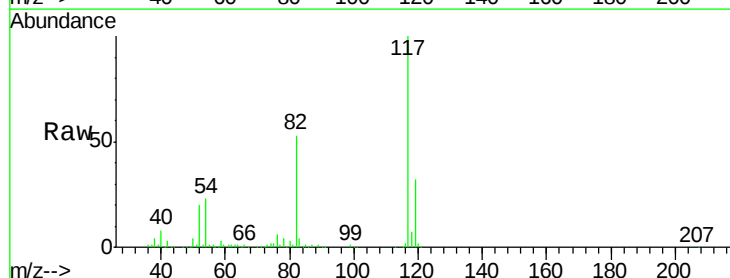
Tgt Ion: 117 Resp: 613484

Ion Ratio Lower Upper

117 100

82 53.1 42.2 63.4

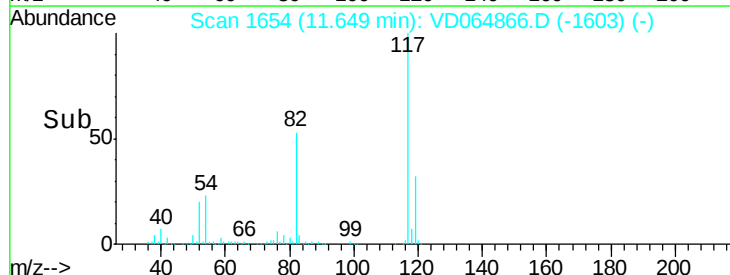
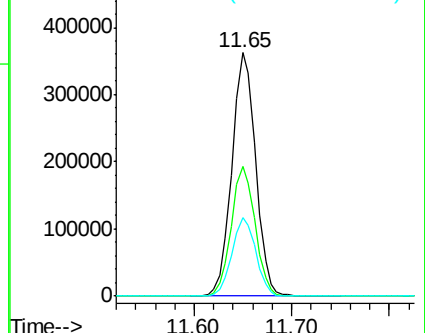
119 32.1 26.0 39.0

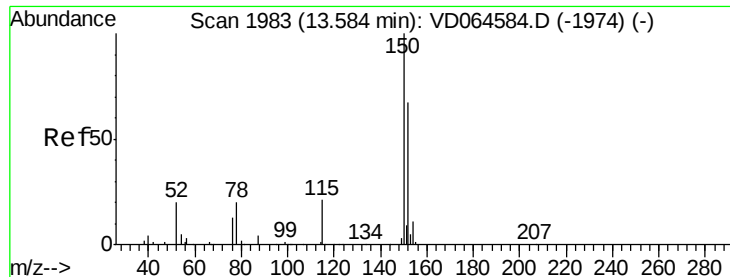


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.58 min Scan# 1983

Delta R.T. 0.00 min

Lab File: VD064866.D

Acq: 17 Jan 2020 16:41

Instrument :

MSVOA\_D

ClientSampleId :

EP-4

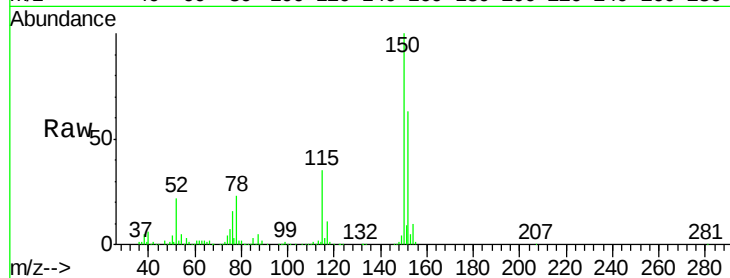
Tgt Ion:152 Resp: 288686

Ion Ratio Lower Upper

152 100

115 56.0 27.8 83.4

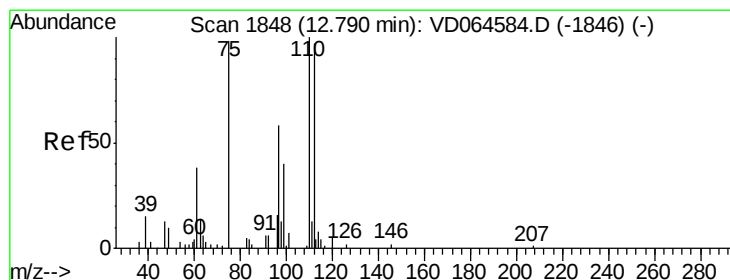
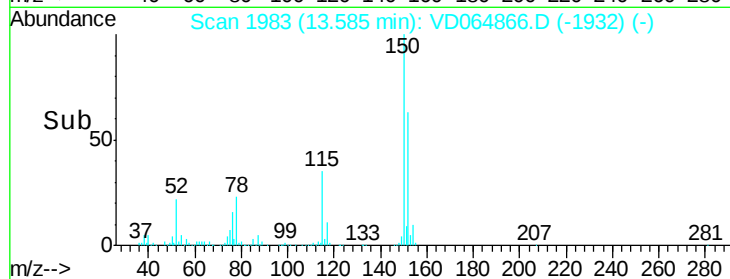
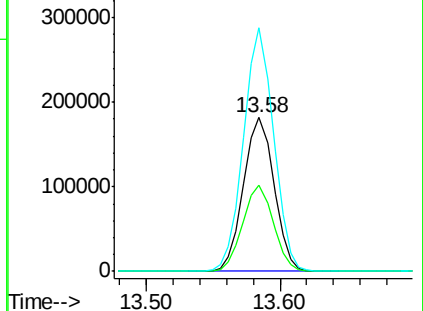
150 155.6 0.0 351.4



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 59.55 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.15 min

Lab File: VD064866.D

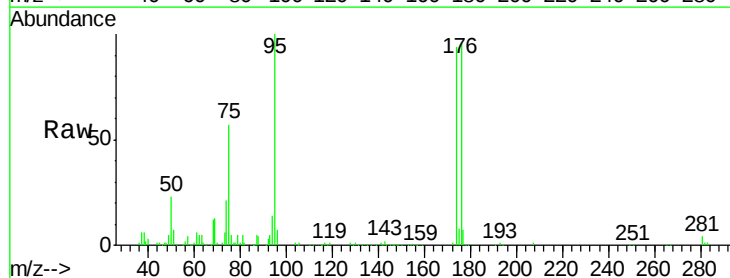
Acq: 17 Jan 2020 16:41

Tgt Ion: 75 Resp: 135750

Ion Ratio Lower Upper

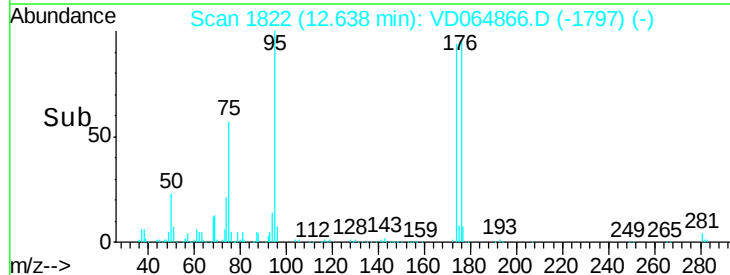
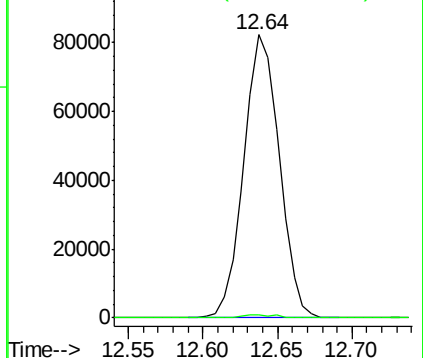
75 100

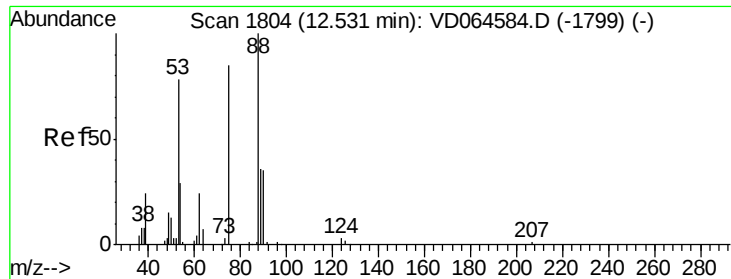
77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 124.54 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.11 min

Lab File: VD064866.D

Acq: 17 Jan 2020 16:41

Instrument :

MSVOA\_D

ClientSampleId :

EP-4

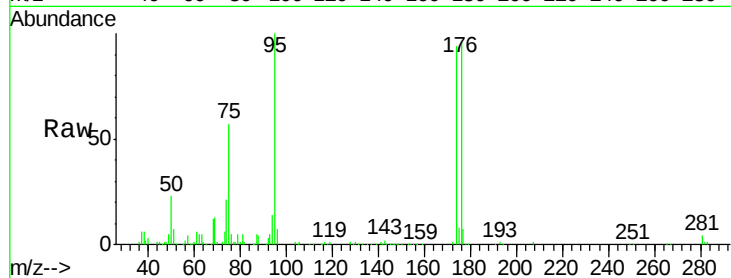
Tgt Ion: 75 Resp: 135750

Ion Ratio Lower Upper

75 100

53 0.1 78.8 118.2#

89 0.1 38.3 57.5#



Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 88.90 (88.60 to 89.60): VDC

