

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD052620\  
 Data File : VD065759.D  
 Acq On : 26 May 2020 13:55  
 Operator : VA/SY  
 Sample : L2500-06  
 Misc : 7.49G/5.00ml/MSVOA D/SOIL  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :

Quant Time: May 27 02:58:56 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D051320S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed May 13 14:28:42 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.98  | 168  | 326524   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.87  | 114  | 508922   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.65 | 117  | 467609   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.58 | 152  | 219826   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc   | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|--------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 8.33  | 65   | 152789   | 58.07  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 116.14% |          |
| 35) Dibromofluoromethane    | 7.92  | 113  | 157566   | 54.65  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 109.30% |          |
| 50) Toluene-d8              | 10.34 | 98   | 598830   | 54.55  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 109.10% |          |
| 62) 4-Bromofluorobenzene    | 12.64 | 95   | 210248   | 56.56  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 113.12% |          |

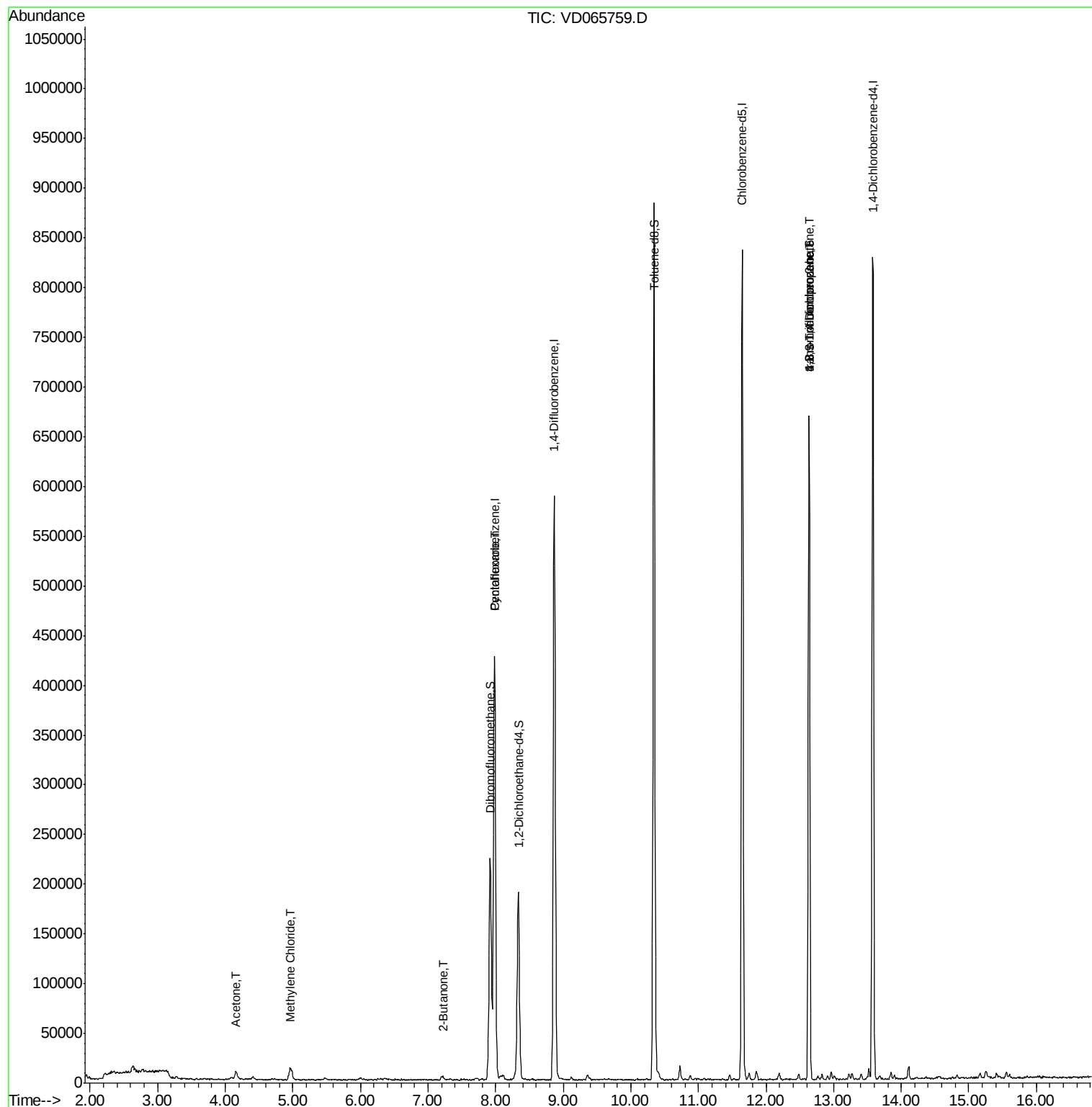
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units | Qvalue |
|--------------------------------|-------|------|----------|-----------|-------|--------|
| 11) Tert butyl alcohol         | 5.26  | 59   | 58       | Below Cal | #     | 75     |
| 13) Acrolein                   | 3.93  | 56   | 55       | Below Cal | #     | 13     |
| 16) Acetone                    | 4.16  | 43   | 15503    | 28.724    | ug/l  | 93     |
| 18) Methyl Acetate             | 4.71  | 43   | 154      | Below Cal | #     | 52     |
| 20) Methylene Chloride         | 4.96  | 84   | 9326     | 3.063     | ug/l  | 98     |
| 25) 2-Butanone                 | 7.22  | 43   | 1987     | 2.575     | ug/l  | 90     |
| 31) Cyclohexane                | 7.98  | 56   | 9463     | 1.810     | ug/l  | # 22   |
| 76) 1,2,3-Trichloropropane     | 12.64 | 75   | 110410   | 67.299    | ug/l  | # 100  |
| 81) trans-1,4-Dichloro-2-buten | 12.64 | 75   | 110410   | 132.031   | ug/l  | # 13   |

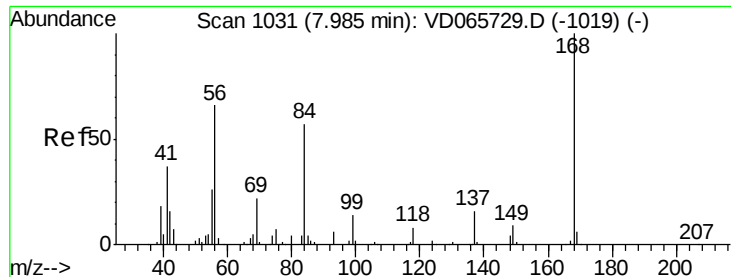
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ALS Vial : 6 Sample Multiplier: 1

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MSVOA\_D  
ClientSampleId :

Quant Time: May 27 02:58:56 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_D\METHOD\82D051320S.M  
Quant Title : SW846 8260  
QLast Update : Wed May 13 14:28:42 2020  
Response via : Initial Calibration

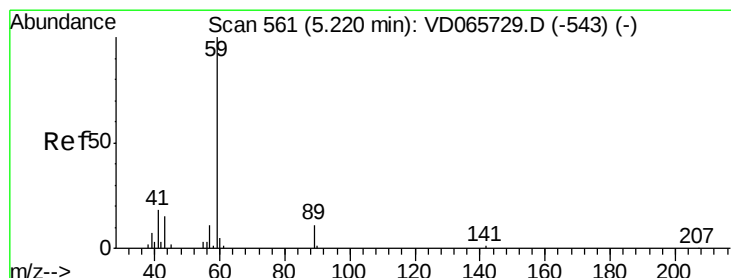
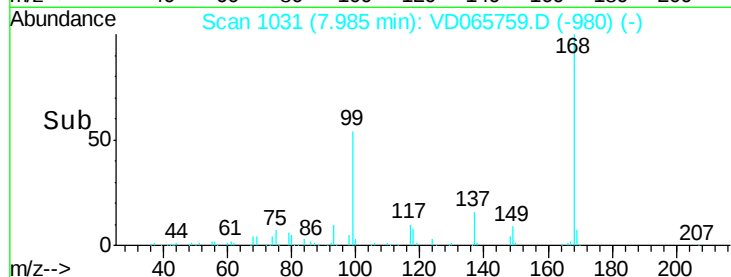
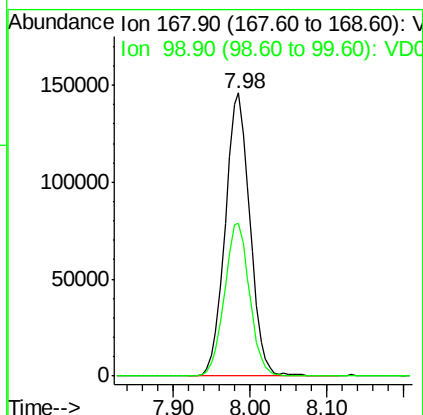
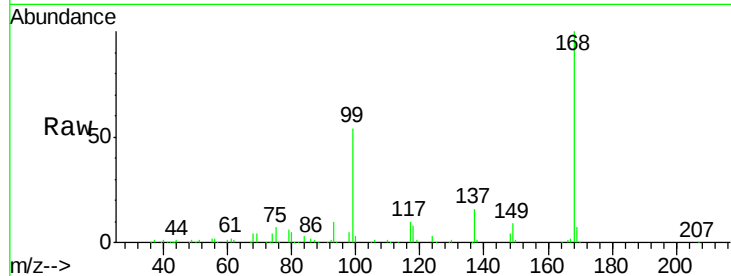




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.98 min Scan# 1031  
Delta R.T. 0.00 min  
Lab File: VD065759.D  
Acq: 26 May 2020 13:55

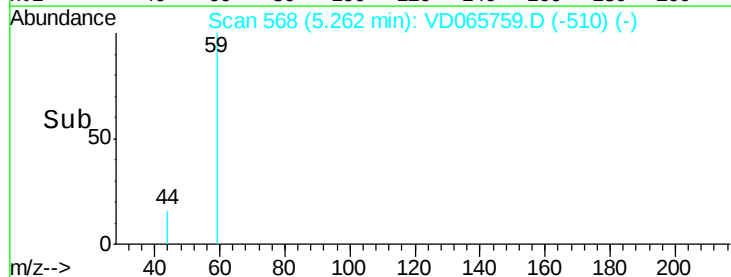
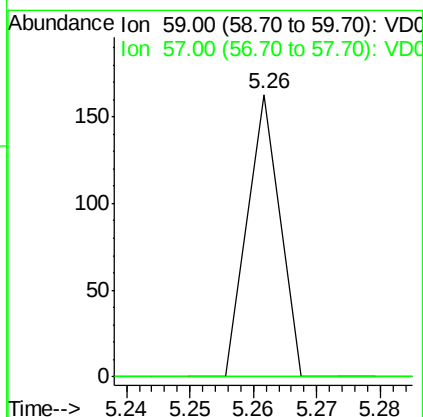
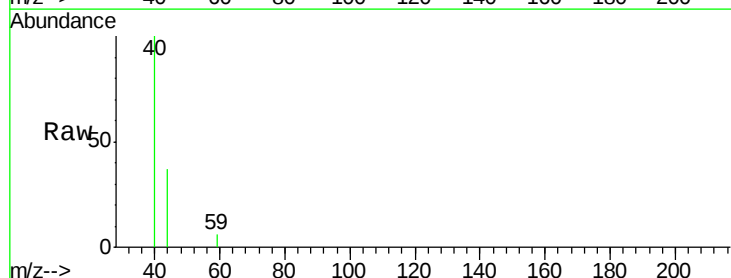
Instrument :  
MSVOA\_D  
ClientSampleId :

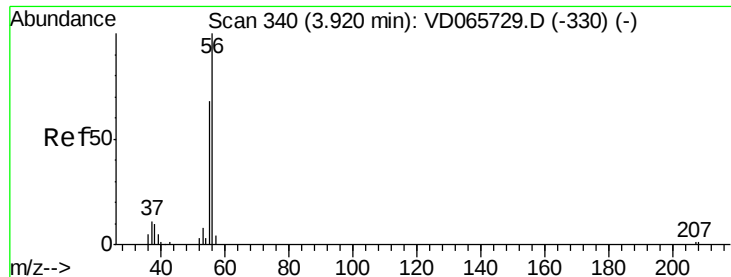
Tot Ion:168 Resp: 326524  
Ion Ratio Lower Upper  
168 100  
99 54.0 40.6 60.8



#11  
Tert butyl alcohol  
Concen: Below Cal  
RT: 5.26 min Scan# 568  
Delta R.T. 0.04 min  
Lab File: VD065759.D  
Acq: 26 May 2020 13:55

Tgt Ion: 59 Resp: 58  
Ion Ratio Lower Upper  
59 100  
57 0.0 7.4 11.0#





#13

Acrolein

Concen: Below Cal

RT: 3.93 min Scan# 341

Delta R.T. 0.01 min

Lab File: VD065759.D

Acq: 26 May 2020 13:55

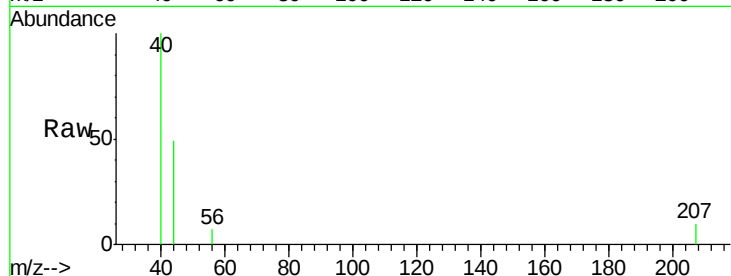
Instrument :  
MSVOA\_D  
ClientSampleId :

Tot Ion: 56 Resp: 55

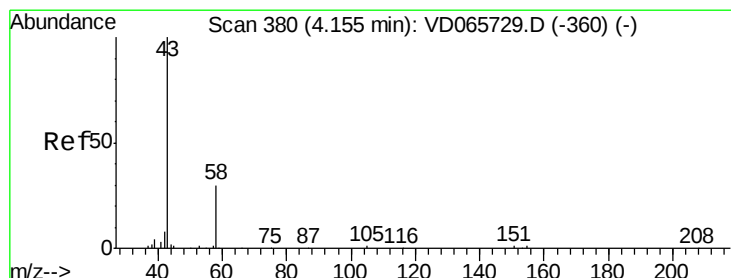
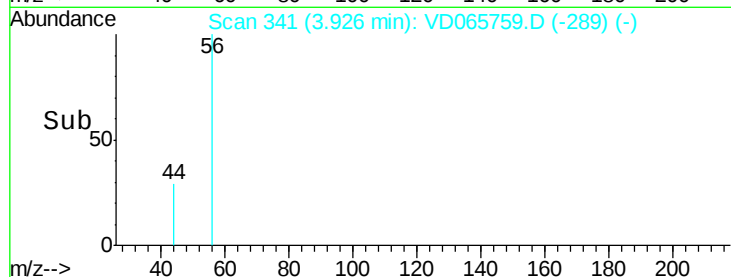
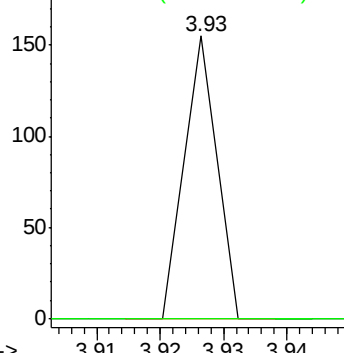
Ion Ratio Lower Upper

56 100

55 0.0 57.8 86.8#



Abundance Ion 56.00 (55.70 to 56.70): VDC  
Ion 55.00 (54.70 to 55.70): VDC



#16

Acetone

Concen: 28.724 ug/l

RT: 4.16 min Scan# 380

Delta R.T. 0.00 min

Lab File: VD065759.D

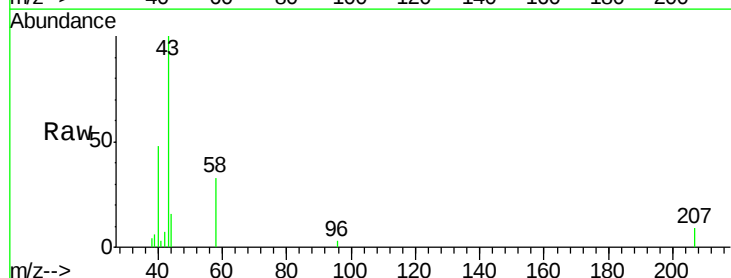
Acq: 26 May 2020 13:55

Tgt Ion: 43 Resp: 15503

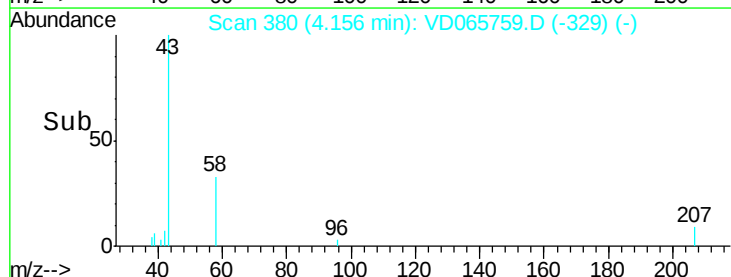
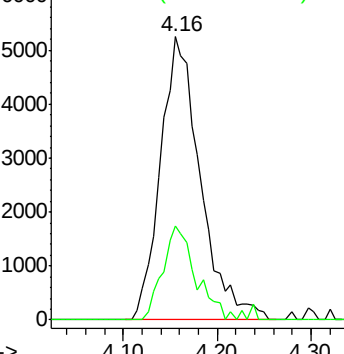
Ion Ratio Lower Upper

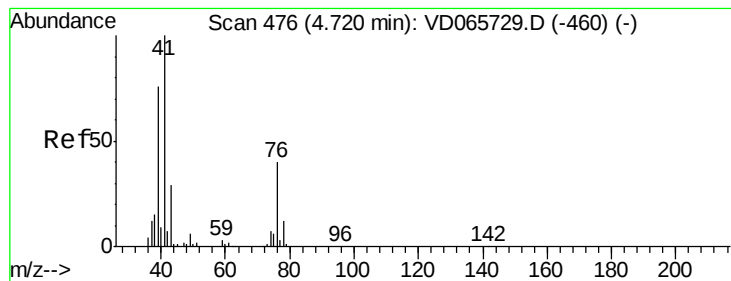
43 100

58 33.4 23.7 35.5



Abundance Ion 43.00 (42.70 to 43.70): VDC  
Ion 58.00 (57.70 to 58.70): VDC





#18

Methyl Acetate

Concen: Below Cal

RT: 4.71 min Scan# 474

Delta R.T. -0.01 min

Lab File: VD065759.D

Acq: 26 May 2020 13:55

Instrument :

MSVOA\_D

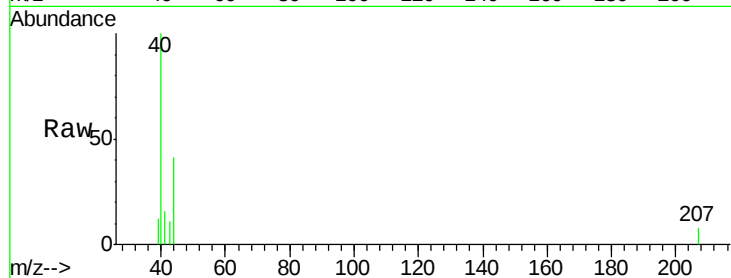
ClientSampleId :

Tot Ion: 43 Resp: 154

Ion Ratio Lower Upper

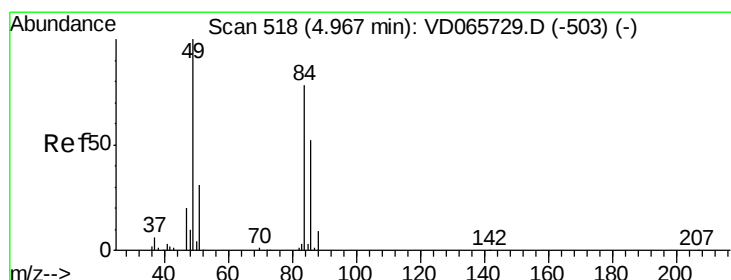
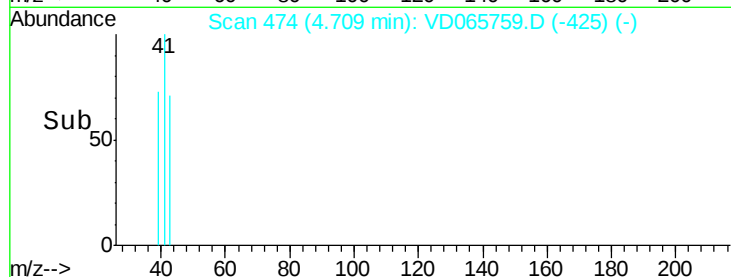
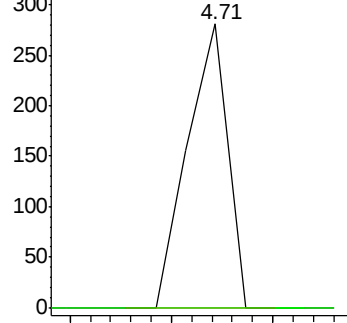
43 100

74 0.0 18.6 27.8#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 74.00 (73.70 to 74.70): VDC



#20

Methylene Chloride

Concen: 3.063 ug/l

RT: 4.96 min Scan# 516

Delta R.T. -0.01 min

Lab File: VD065759.D

Acq: 26 May 2020 13:55

Tgt Ion: 84 Resp: 9326

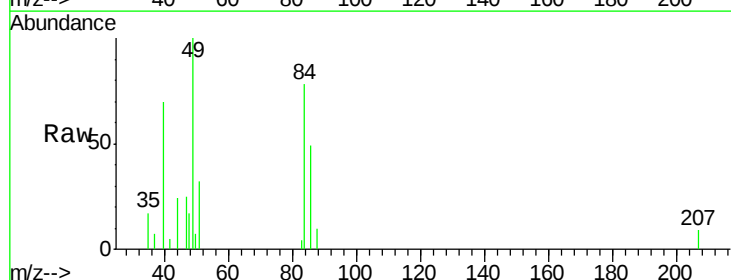
Ion Ratio Lower Upper

84 100

49 128.2 102.9 154.3

51 41.2 31.5 47.3

86 63.4 53.6 80.4

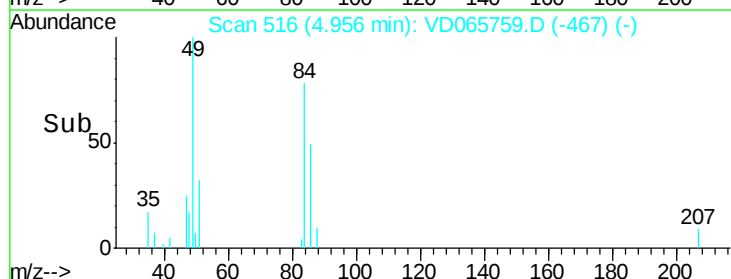
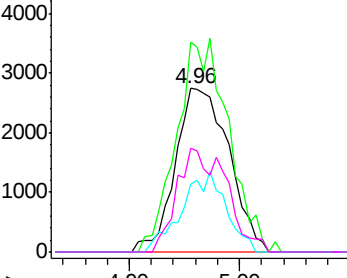


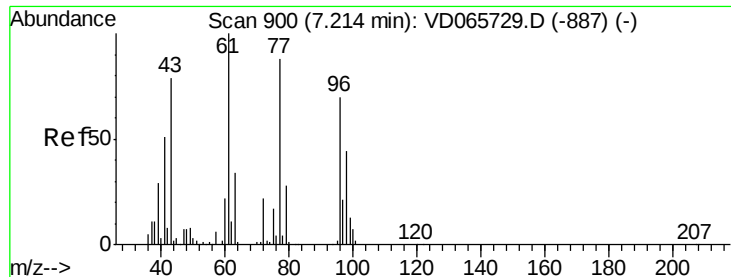
Abundance Ion 83.90 (83.60 to 84.60): VDC

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

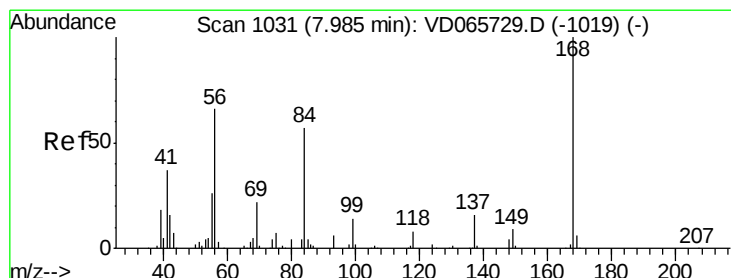
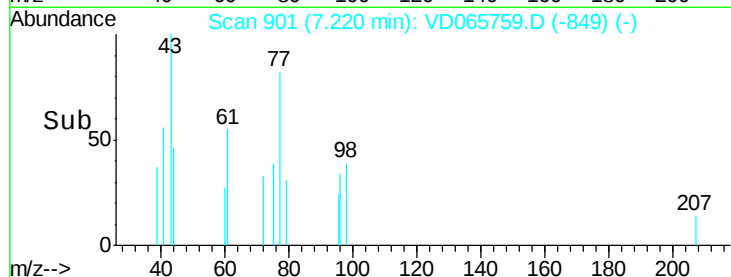
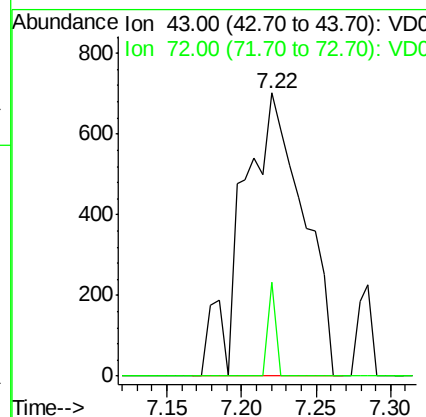
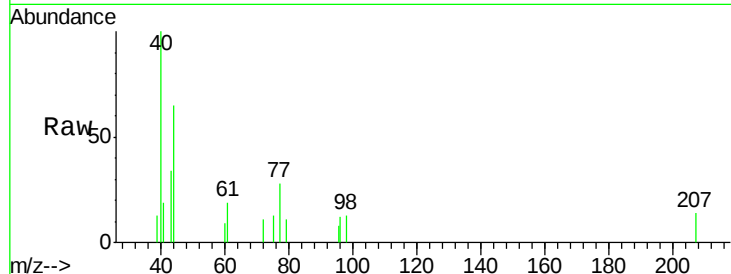




#25  
2-Butanone  
Concen: 2.575 ug/l  
RT: 7.22 min Scan# 901  
Delta R.T. 0.01 min  
Lab File: VD065759.D  
Acq: 26 May 2020 13:55

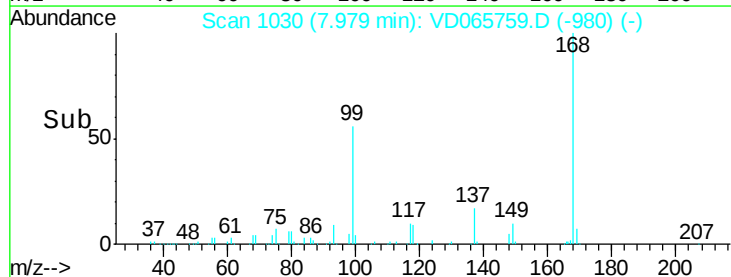
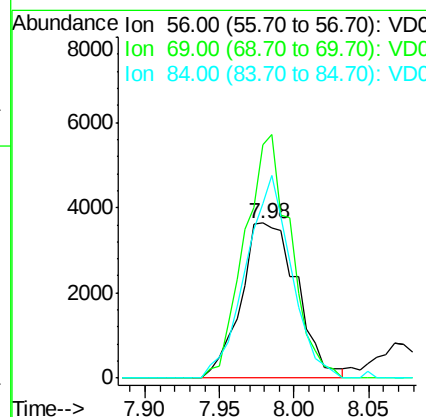
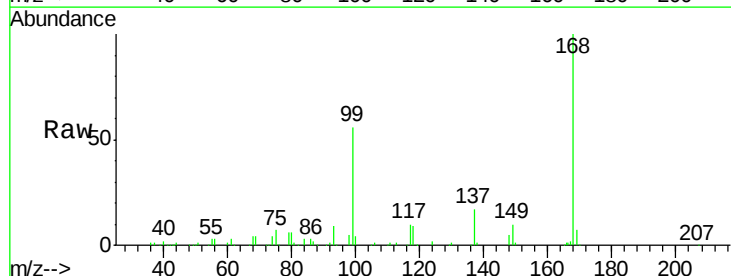
Instrument :  
MSVOA\_D  
ClientSampleId :

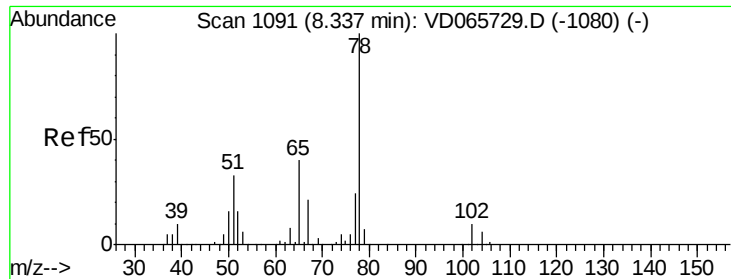
Tot Ion: 43 Resp: 1987  
Ion Ratio Lower Upper  
43 100  
72 33.2 22.3 33.5



#31  
Cyclohexane  
Concen: 1.810 ug/l  
RT: 7.98 min Scan# 1030  
Delta R.T. -0.01 min  
Lab File: VD065759.D  
Acq: 26 May 2020 13:55

Tgt Ion: 56 Resp: 9463  
Ion Ratio Lower Upper  
56 100  
69 150.9 25.9 38.9#  
84 112.2 69.1 103.7#





#33

1,2-Dichloroethane-d4

Concen: 58.066 ug/l

RT: 8.33 min Scan# 1090

Delta R.T. -0.01 min

Lab File: VD065759.D

Acq: 26 May 2020 13:55

Instrument :

MSVOA\_D

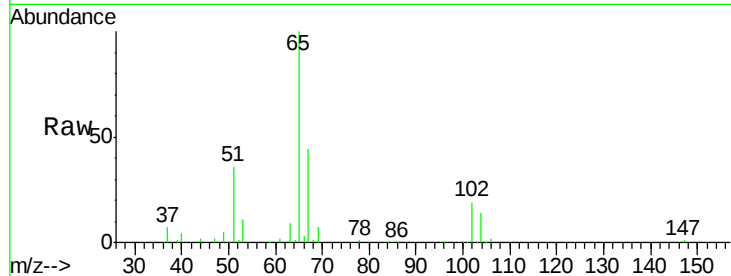
ClientSampleId :

Tot Ion: 65 Resp: 152789

Ion Ratio Lower Upper

65 100

67 50.8 0.0 106.2



Abundance Ion 64.90 (64.60 to 65.60): VDC

Ion 66.90 (66.60 to 67.60): VDC

8.33

80000

60000

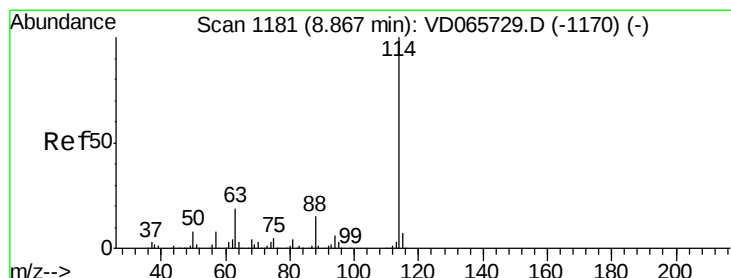
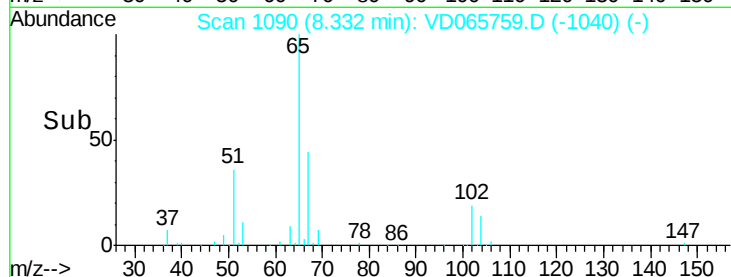
40000

20000

0

8.20 8.30 8.40 8.50

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.87 min Scan# 1181

Delta R.T. 0.00 min

Lab File: VD065759.D

Acq: 26 May 2020 13:55

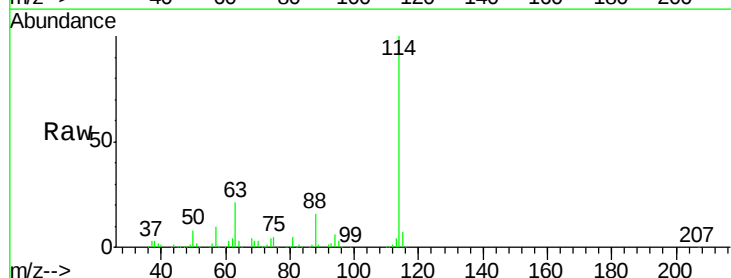
Tgt Ion: 114 Resp: 508922

Ion Ratio Lower Upper

114 100

63 20.5 0.0 37.2

88 16.3 0.0 30.2



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

8.87

300000

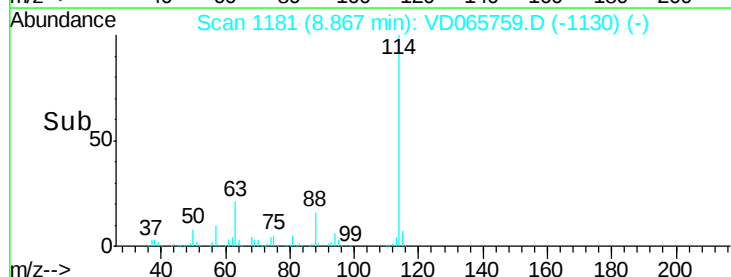
200000

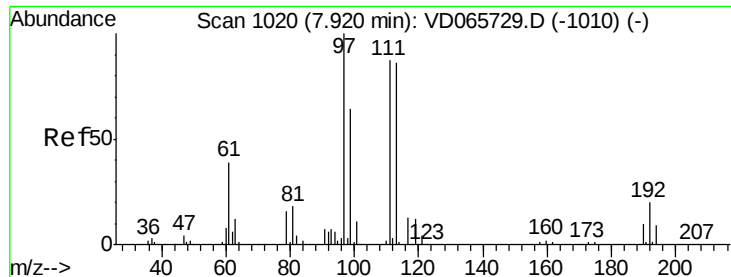
100000

0

8.70 8.80 8.90 9.00 9.10

Time-->

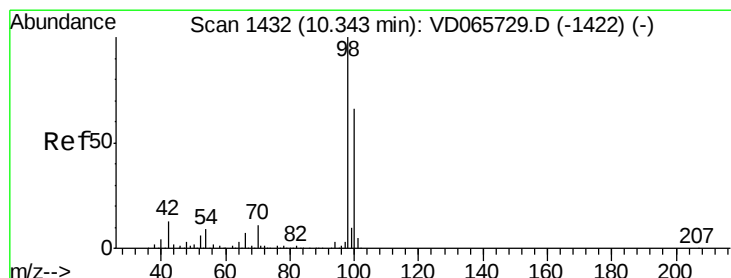
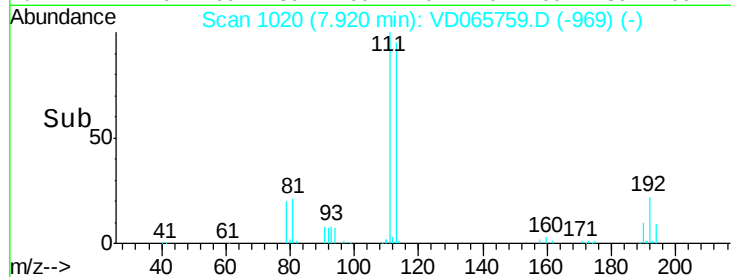
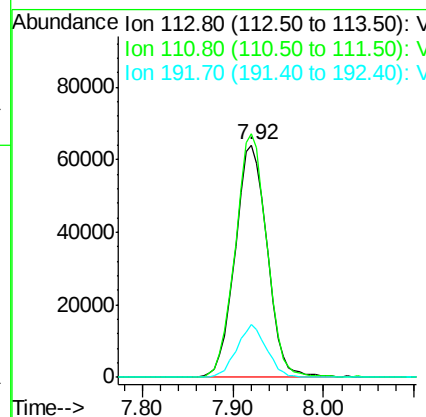
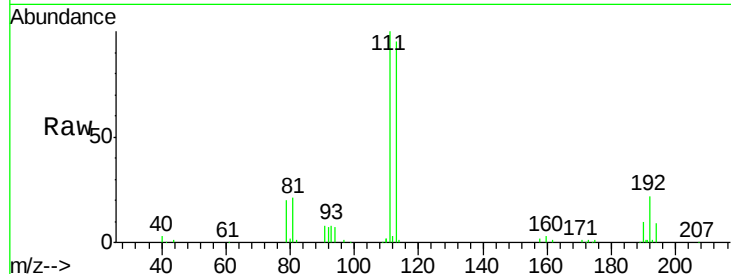




#35  
 Dibromofluoromethane  
 Concen: 54.650 ug/l  
 RT: 7.92 min Scan# 1020  
 Delta R.T. 0.00 min  
 Lab File: VD065759.D  
 Acq: 26 May 2020 13:55

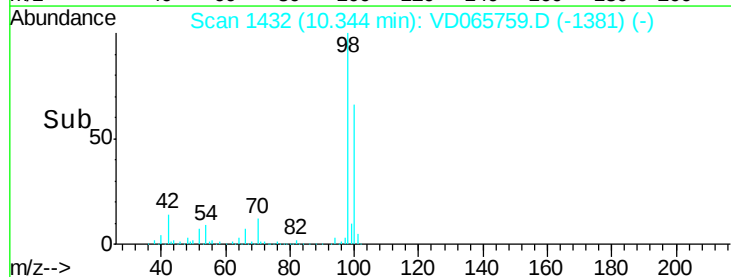
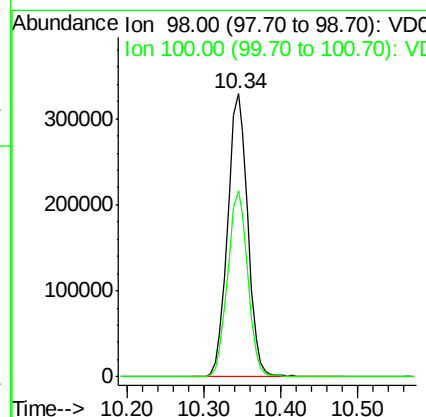
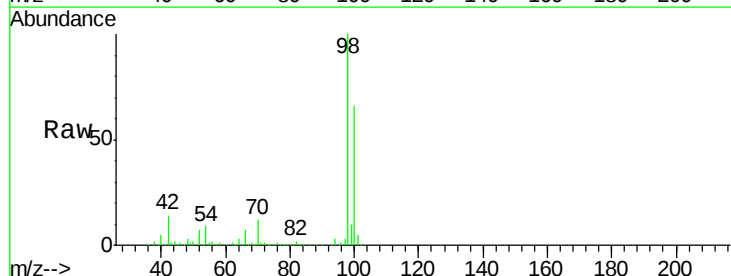
Instrument :  
 MSVOA\_D  
 ClientSampled :

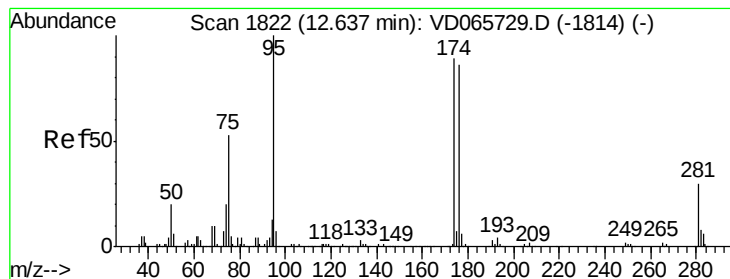
Tot Ion:113 Resp: 157566  
 Ion Ratio Lower Upper  
 113 100  
 111 103.3 81.1 121.7  
 192 20.9 17.6 26.4



#50  
 Toluene-d8  
 Concen: 54.555 ug/l  
 RT: 10.34 min Scan# 1432  
 Delta R.T. 0.00 min  
 Lab File: VD065759.D  
 Acq: 26 May 2020 13:55

Tgt Ion: 98 Resp: 598830  
 Ion Ratio Lower Upper  
 98 100  
 100 65.8 52.5 78.7





#62

4-Bromofluorobenzene

Concen: 56.558 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.00 min

Lab File: VD065759.D

Acq: 26 May 2020 13:55

Instrument :

MSVOA\_D

ClientSampleId :

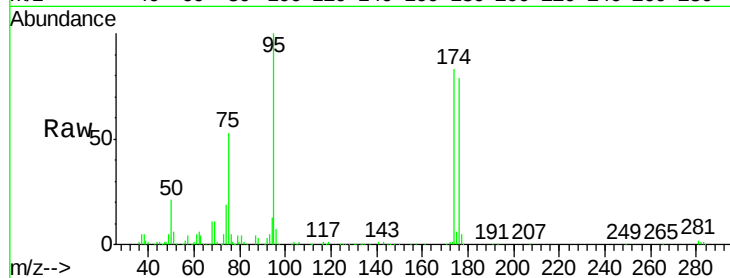
Tot Ion: 95 Resp: 210248

Ion Ratio Lower Upper

95 100

174 85.3 0.0 179.4

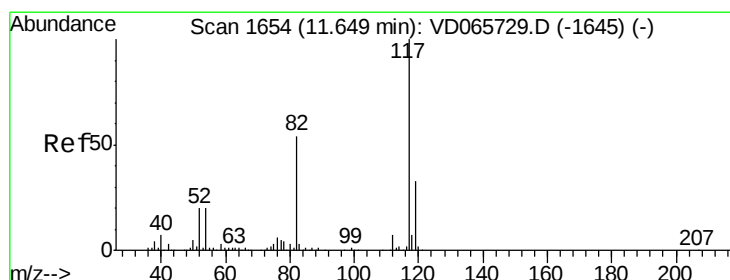
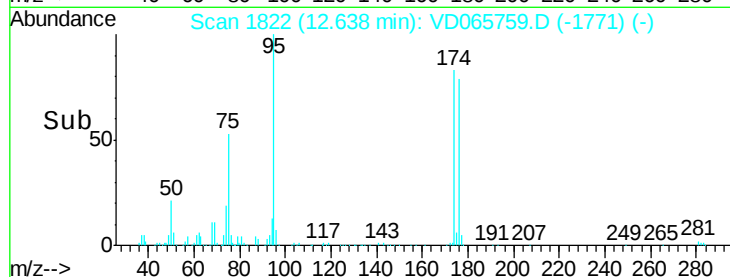
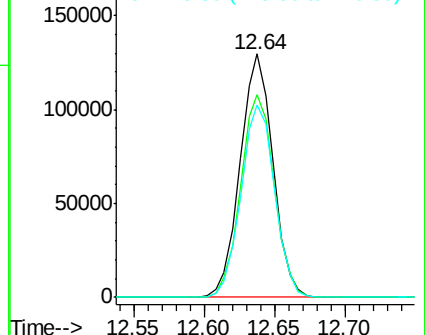
176 81.1 0.0 174.0



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: 50.000 ug/l

RT: 11.65 min Scan# 1654

Delta R.T. 0.00 min

Lab File: VD065759.D

Acq: 26 May 2020 13:55

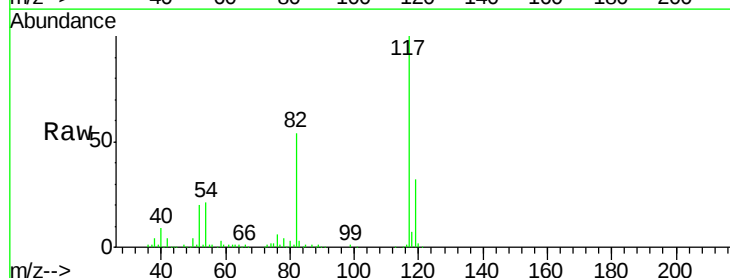
Tgt Ion: 117 Resp: 467609

Ion Ratio Lower Upper

117 100

82 54.3 43.0 64.6

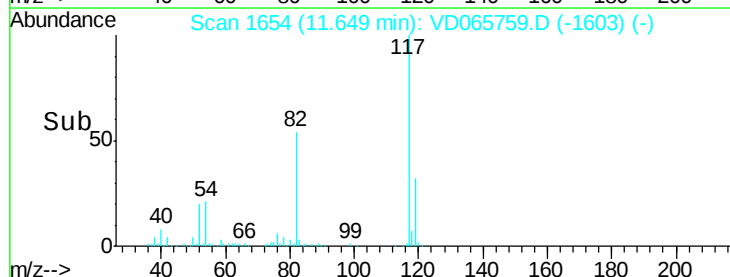
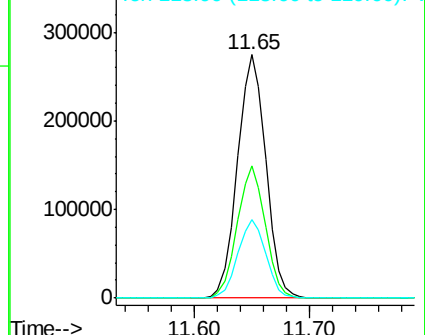
119 32.2 26.6 40.0

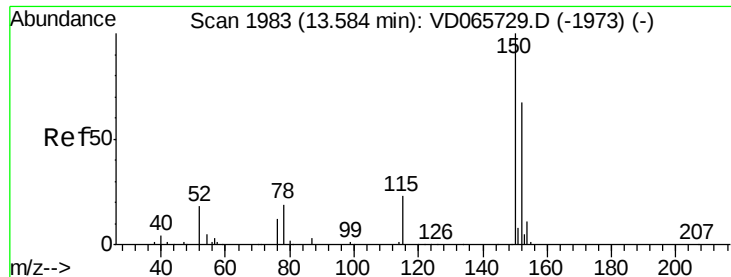


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.58 min Scan# 1983

Delta R.T. 0.00 min

Lab File: VD065759.D

Acq: 26 May 2020 13:55

Instrument :

MSVOA\_D

ClientSampleId :

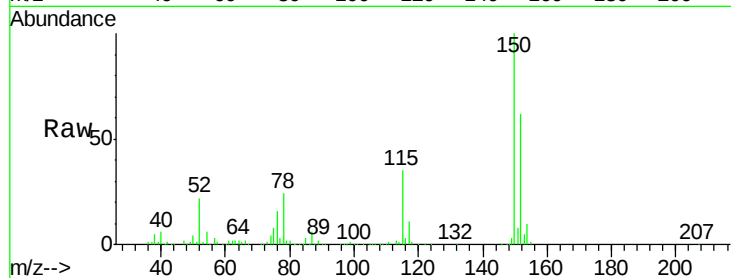
Tot Ion:152 Resp: 219826

Ion Ratio Lower Upper

152 100

115 58.0 28.1 84.3

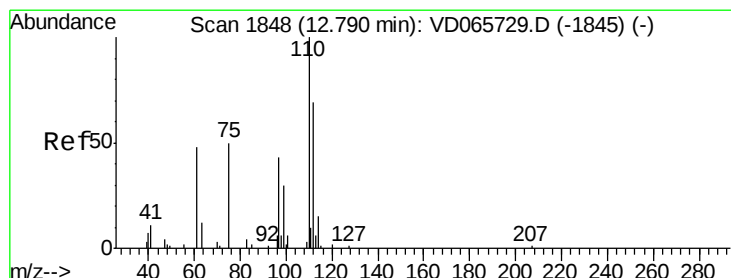
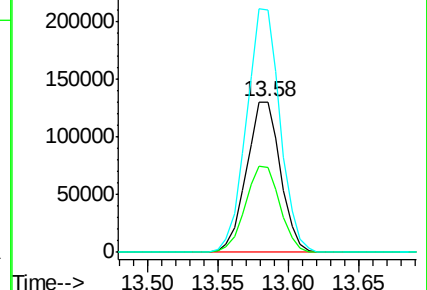
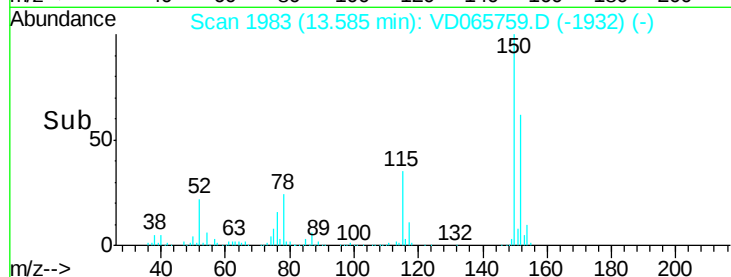
150 160.2 0.0 343.2



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: 67.299 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.15 min

Lab File: VD065759.D

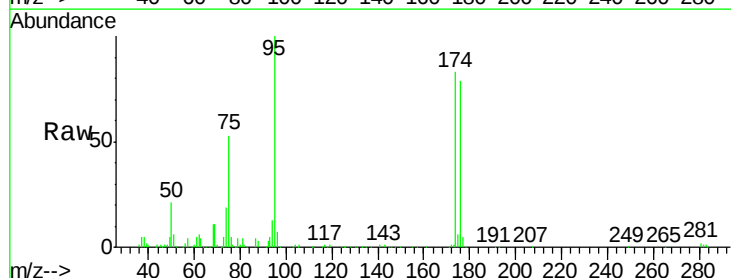
Acq: 26 May 2020 13:55

Tgt Ion: 75 Resp: 110410

Ion Ratio Lower Upper

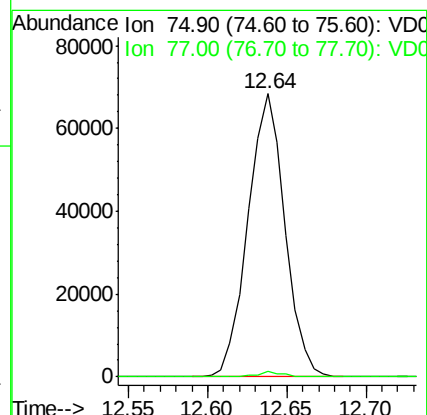
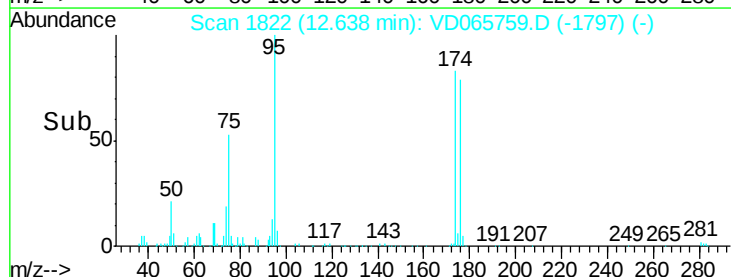
75 100

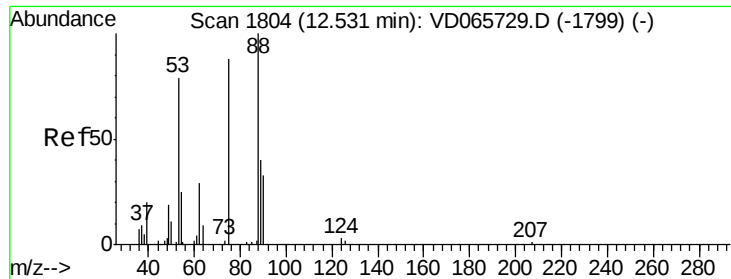
77 1.2 0.0 0.0#



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: 132.031 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.11 min

Lab File: VD065759.D

Acq: 26 May 2020 13:55

Instrument :

MSVOA\_D

ClientSampleId :

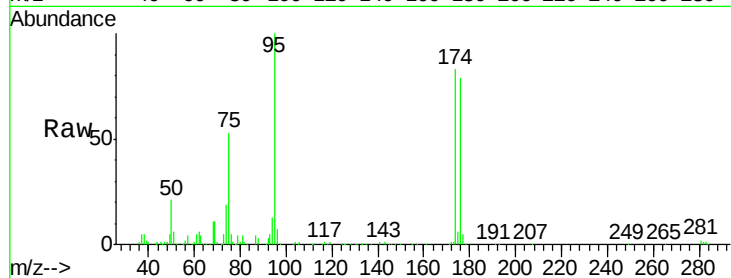
Tot Ion: 75 Resp: 110410

Ion Ratio Lower Upper

75 100

53 0.0 72.6 109.0#

89 0.0 37.0 55.4#



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

