

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD111820\  
 Data File : VD067683.D  
 Acq On : 18 Nov 2020 14:03  
 Operator : VA/SY  
 Sample : L4770-20  
 Misc : 4.43G/5.00ml/MSVOA D/SOIL  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 FJ-BH-04-0-1

Quant Time: Nov 19 00:27:09 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D110320S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Nov 04 00:56:28 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.98  | 168  | 264505   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.87  | 114  | 414994   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.65 | 117  | 413475   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.58 | 152  | 173443   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc   | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|--------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 8.34  | 65   | 120543   | 52.12  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 104.24% |          |
| 35) Dibromofluoromethane    | 7.92  | 113  | 126681   | 50.67  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 101.34% |          |
| 50) Toluene-d8              | 10.34 | 98   | 480820   | 54.72  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 109.44% |          |
| 62) 4-Bromofluorobenzene    | 12.64 | 95   | 166809   | 54.99  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 109.98% |          |

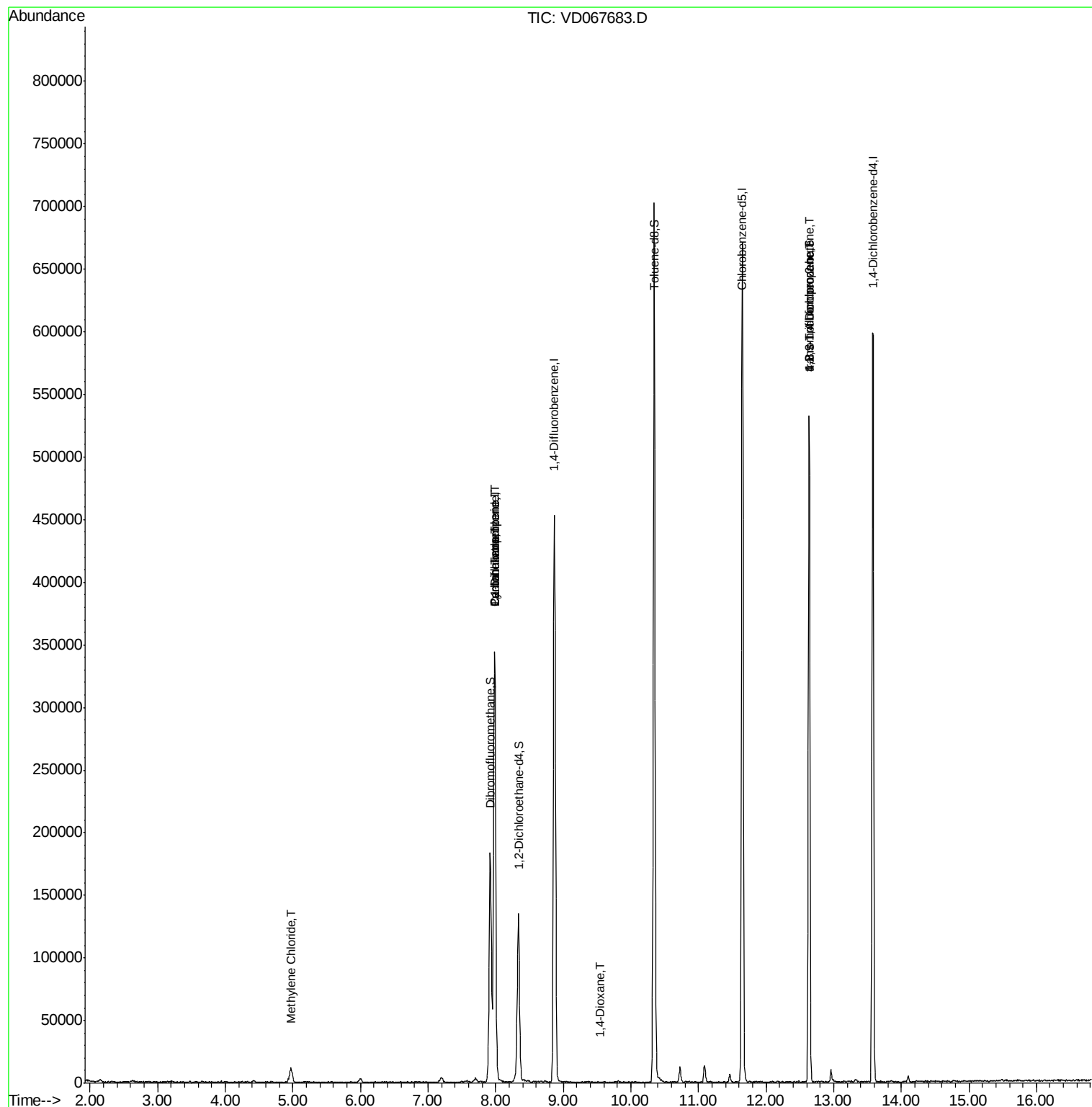
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 2) Dichlorodifluoromethane     | 1.98  | 85   | 205      | Below Cal | #      | 44     |
| 11) Tert butyl alcohol         | 5.22  | 59   | 162      | Below Cal | #      | 79     |
| 20) Methylene Chloride         | 4.97  | 84   | 9983     | 4.083     | ug/l # | 83     |
| 31) Cyclohexane                | 7.98  | 56   | 5248     | 1.565     | ug/l # | 50     |
| 36) 1,1-Dichloropropene        | 7.99  | 75   | 18224    | 5.130     | ug/l # | 50     |
| 38) Carbon Tetrachloride       | 7.98  | 117  | 26594    | 5.762     | ug/l # | 14     |
| 49) 1,4-Dioxane                | 9.55  | 88   | 57       | 4.245     | ug/l # | 31     |
| 76) 1,2,3-Trichloropropane     | 12.64 | 75   | 84327    | 80.595    | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.64 | 75   | 84327    | 163.629   | ug/l # | 10     |

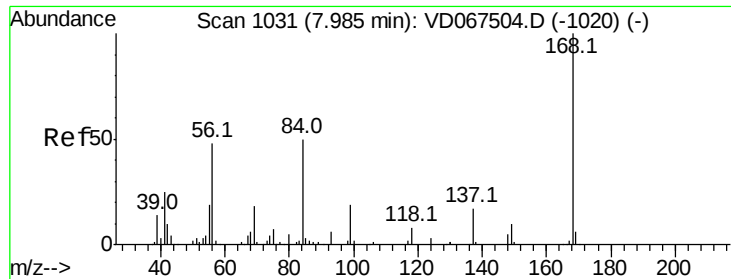
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD111820\  
Data File : VD067683.D  
Acq On : 18 Nov 2020 14:03  
Operator : VA/SY  
Sample : L4770-20  
Misc : 4.43G/5.00ml/MSVOA D/SOIL  
ALS Vial : 11 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
FJ-BH-04-0-1

Quant Time: Nov 19 00:27:09 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_D\METHOD\82D110320S.M  
Quant Title : SW846 8260  
QLast Update : Wed Nov 04 00:56:28 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: VD067683.D

Acq: 18 Nov 2020 14:03

Instrument :

MSVOA\_D

ClientSampleId :

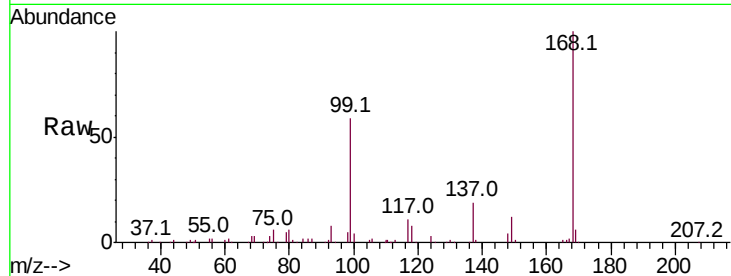
FJ-BH-04-0-1

Tot Ion:168 Resp: 264505

Ion Ratio Lower Upper

168 100

99 58.8 45.0 67.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC

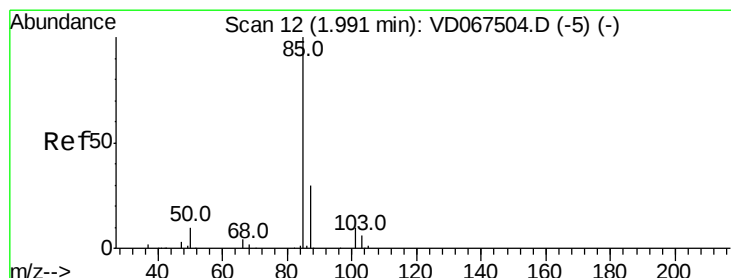
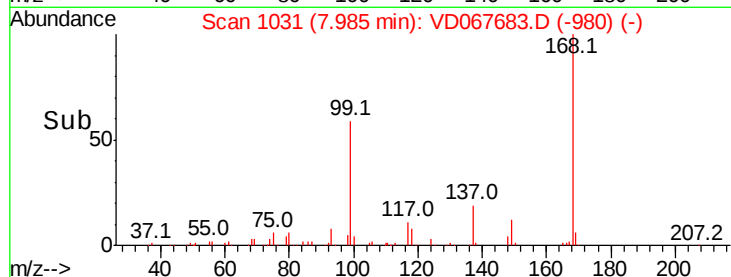
7.98

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.98 min Scan# 10

Delta R.T. -0.01 min

Lab File: VD067683.D

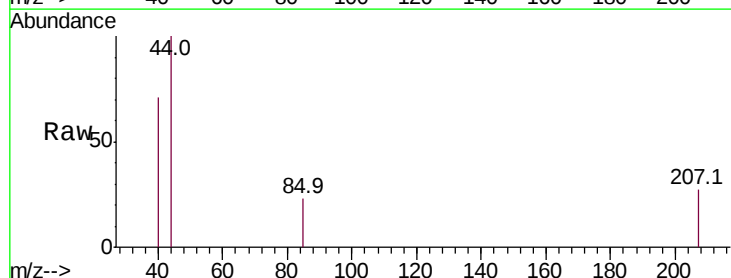
Acq: 18 Nov 2020 14:03

Tgt Ion: 85 Resp: 205

Ion Ratio Lower Upper

85 100

87 0.0 15.3 45.8#



Abundance Ion 84.90 (84.60 to 85.60): VDC

Ion 86.90 (86.60 to 87.60): VDC

250

200

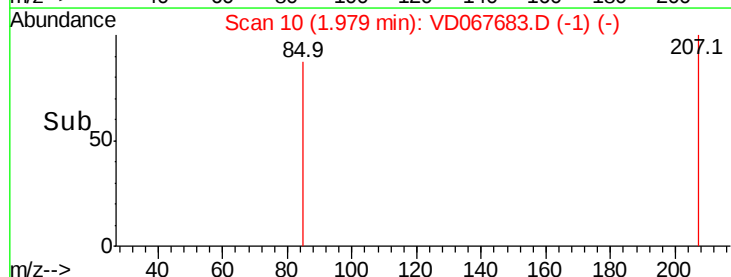
150

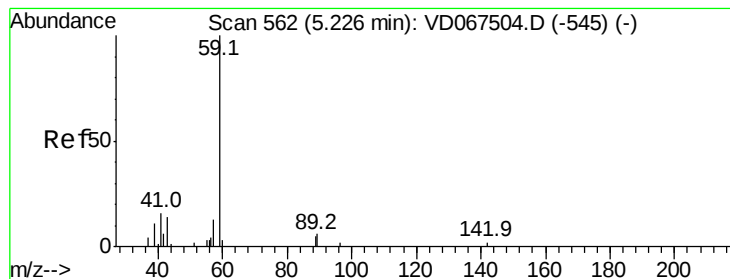
100

50

0

Time-->



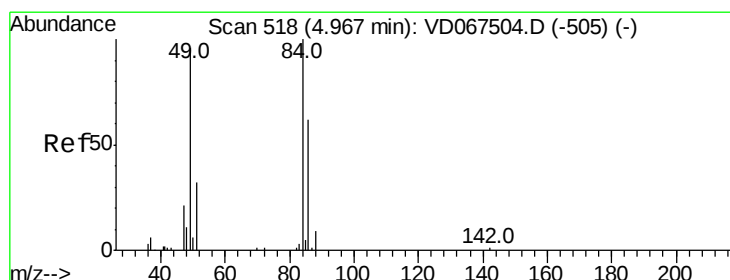
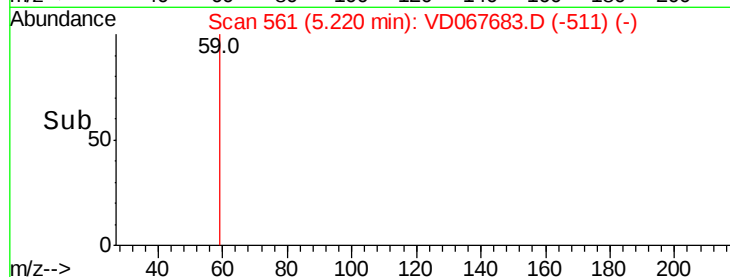
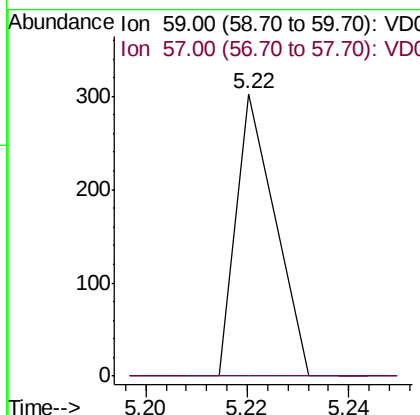
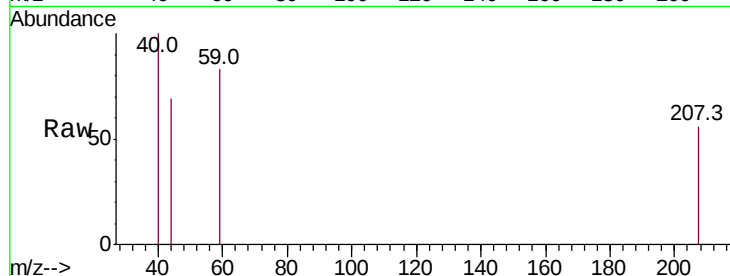


#11

Tert butyl alcohol  
 Concen: Below Cal  
 RT: 5.22 min Scan# 561  
 Delta R.T. -0.01 min  
 Lab File: VD067683.D  
 Acq: 18 Nov 2020 14:03

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 FJ-BH-04-0-1

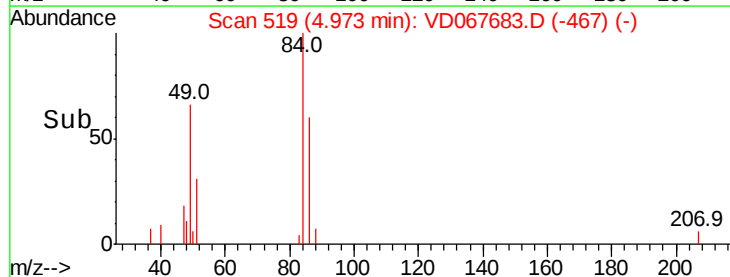
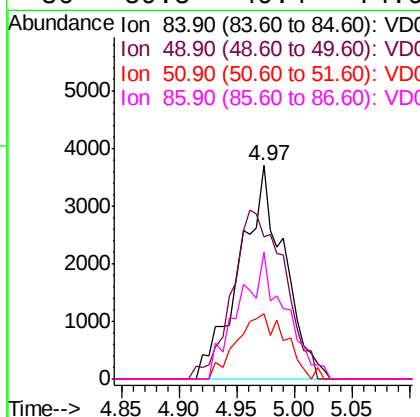
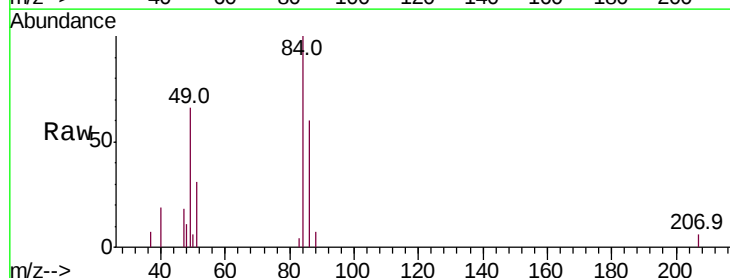
Tot Ion: 59 Resp: 162  
 Ion Ratio Lower Upper  
 59 100  
 57 0.0 5.9 8.9#

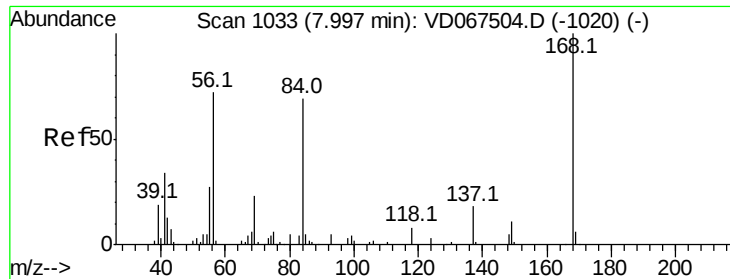


#20

Methylene Chloride  
 Concen: 4.083 ug/l  
 RT: 4.97 min Scan# 519  
 Delta R.T. 0.01 min  
 Lab File: VD067683.D  
 Acq: 18 Nov 2020 14:03

Tgt Ion: 84 Resp: 9983  
 Ion Ratio Lower Upper  
 84 100  
 49 66.5 77.0 115.4#  
 51 30.8 25.4 38.2  
 86 59.5 49.4 74.0

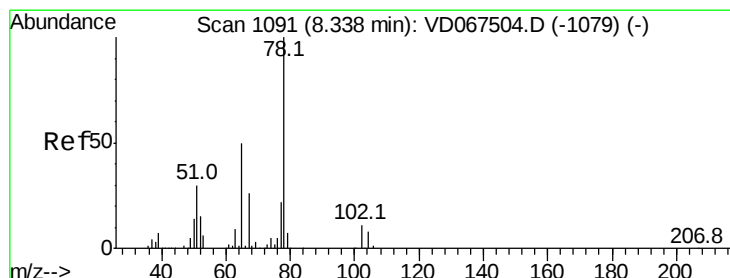
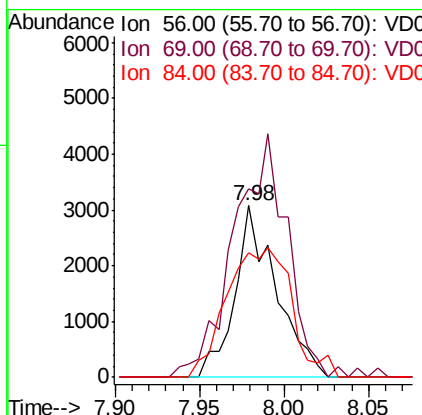
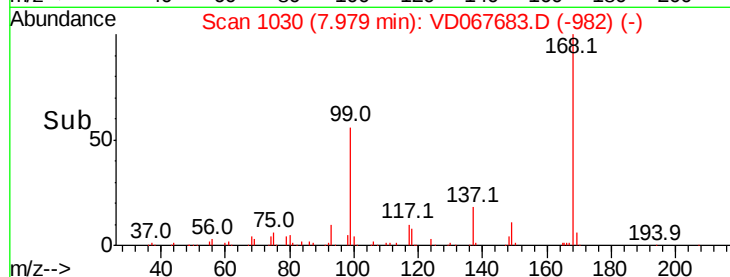
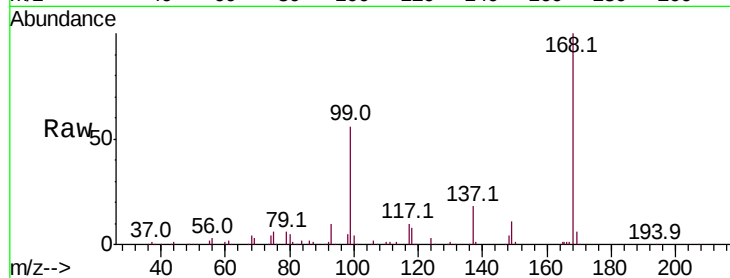




#31  
Cyclohexane  
Concen: 1.565 ug/l  
RT: 7.98 min Scan# 1030  
Delta R.T. -0.02 min  
Lab File: VD067683.D  
Acq: 18 Nov 2020 14:03

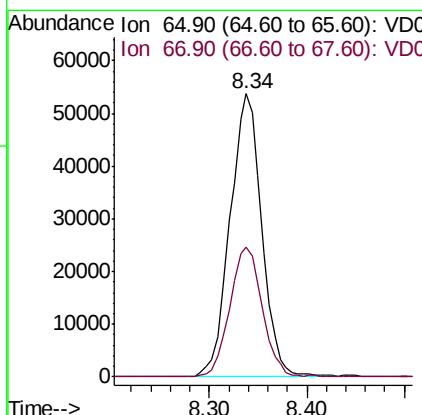
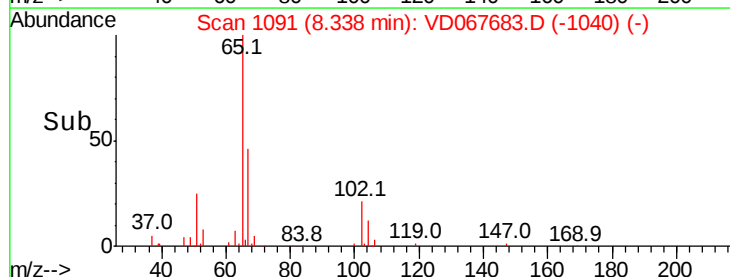
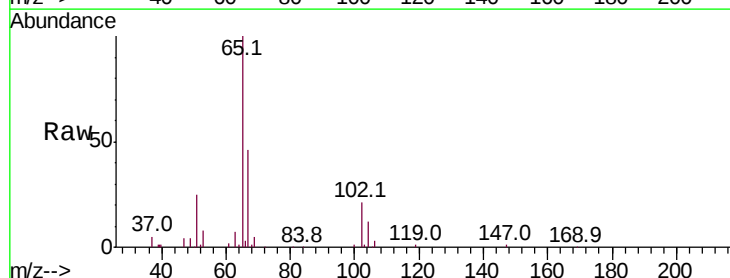
Instrument :  
MSVOA\_D  
ClientSampleId :  
FJ-BH-04-0-1

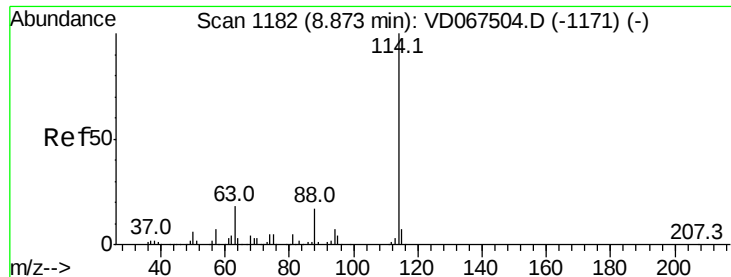
Tot Ion: 56 Resp: 5248  
Ion Ratio Lower Upper  
56 100  
69 103.6 25.9 38.9#  
84 72.4 76.2 114.4#



#33  
1,2-Dichloroethane-d4  
Concen: 52.120 ug/l  
RT: 8.34 min Scan# 1091  
Delta R.T. -0.00 min  
Lab File: VD067683.D  
Acq: 18 Nov 2020 14:03

Tgt Ion: 65 Resp: 120543  
Ion Ratio Lower Upper  
65 100  
67 46.7 0.0 99.4

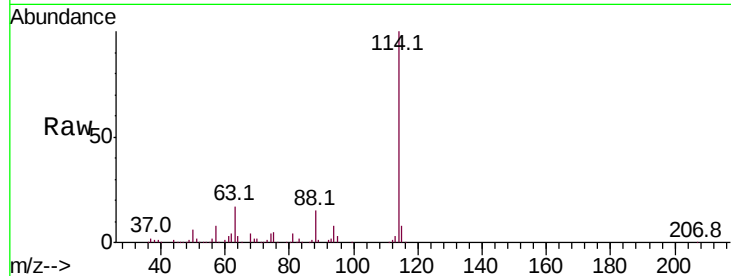




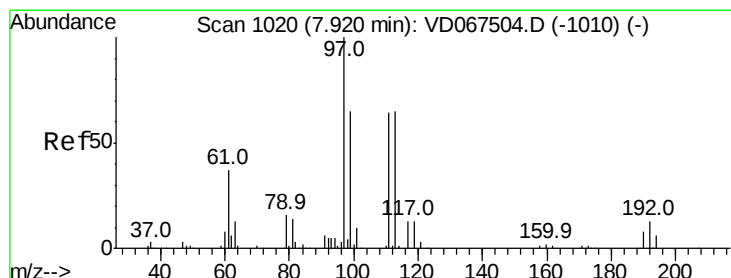
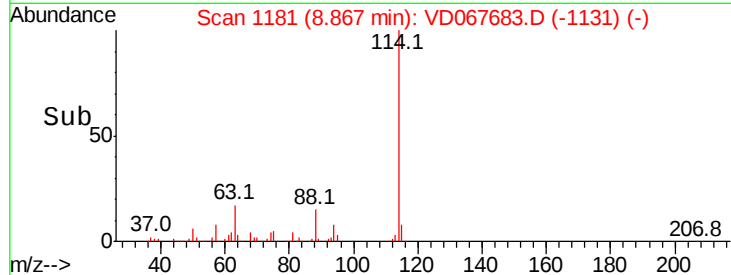
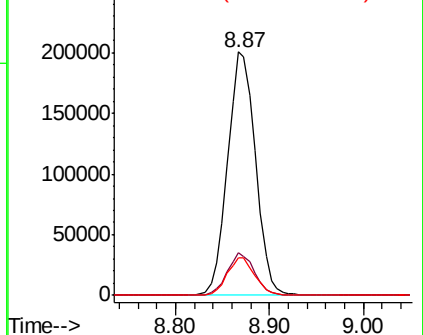
#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 8.87 min Scan# 1181  
Delta R.T. -0.01 min  
Lab File: VD067683.D  
Acq: 18 Nov 2020 14:03

Instrument :  
MSVOA\_D  
ClientSampleId :  
FJ-BH-04-0-1

Tot Ion:114 Resp: 414994  
Ion Ratio Lower Upper  
114 100  
63 17.5 0.0 35.0  
88 15.3 0.0 33.0

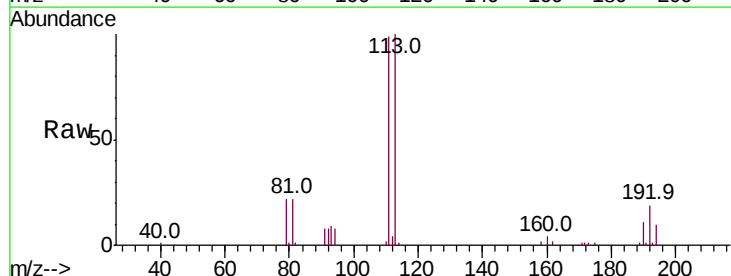


Abundance Ion 113.90 (113.60 to 114.60): V  
Ion 63.00 (62.70 to 63.70): V  
Ion 87.90 (87.60 to 88.60): V

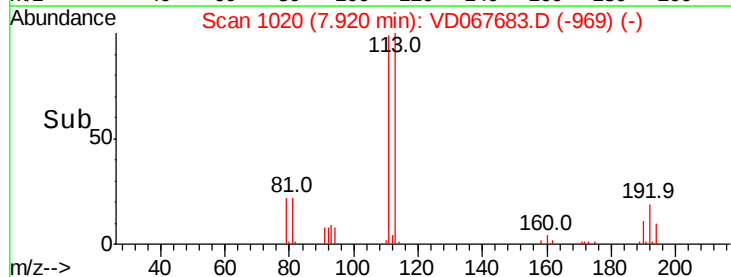
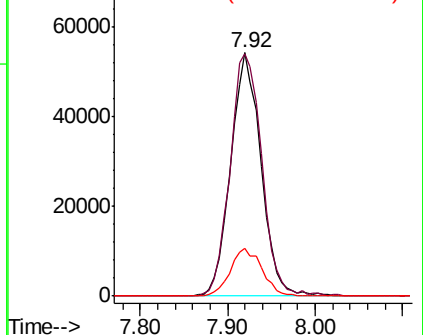


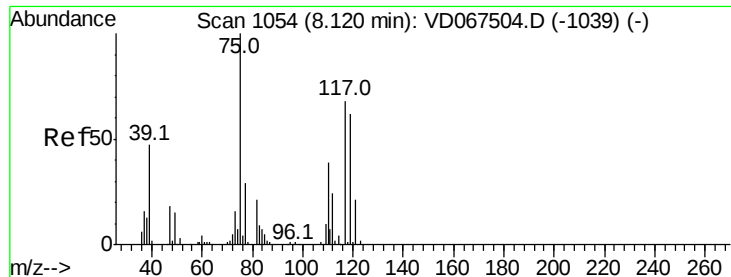
#35  
Dibromofluoromethane  
Concen: 50.666 ug/l  
RT: 7.92 min Scan# 1020  
Delta R.T. -0.00 min  
Lab File: VD067683.D  
Acq: 18 Nov 2020 14:03

Tgt Ion:113 Resp: 126681  
Ion Ratio Lower Upper  
113 100  
111 104.4 80.0 120.0  
192 20.5 16.3 24.5



Abundance Ion 112.80 (112.50 to 113.50): V  
Ion 110.80 (110.50 to 111.50): V  
Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 5.130 ug/l

RT: 7.99 min Scan# 1032

Delta R.T. -0.13 min

Lab File: VD067683.D

Acq: 18 Nov 2020 14:03

Instrument :

MSVOA\_D

ClientSampleId :

FJ-BH-04-0-1

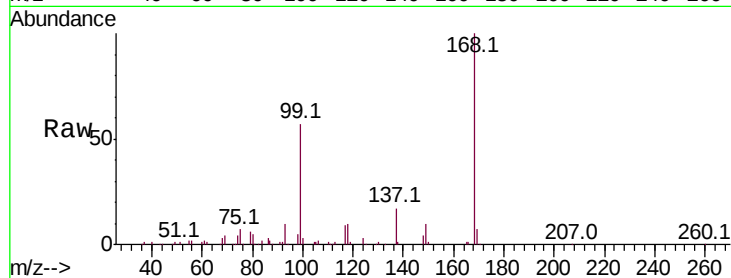
Tot Ion: 75 Resp: 18224

Ion Ratio Lower Upper

75 100

110 12.6 19.9 59.7#

77 0.0 24.8 37.2#

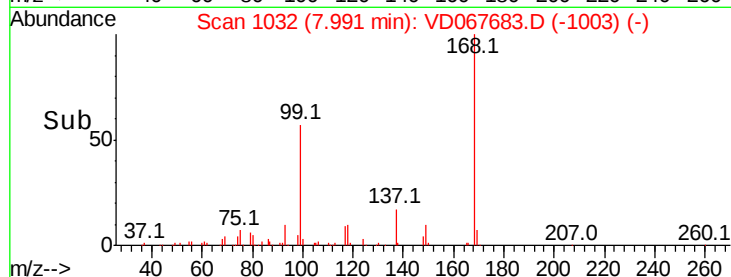


Abundance Ion 74.90 (74.60 to 75.60): VD067504.D (-1039) (-)

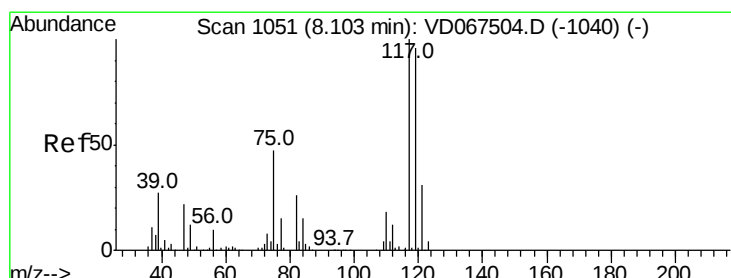
Ion 109.90 (109.60 to 110.60): VD067504.D (-1039) (-)

Ion 76.90 (76.60 to 77.60): VD067504.D (-1039) (-)

Time-->



Time-->



#38

Carbon Tetrachloride

Concen: 5.762 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. -0.12 min

Lab File: VD067683.D

Acq: 18 Nov 2020 14:03

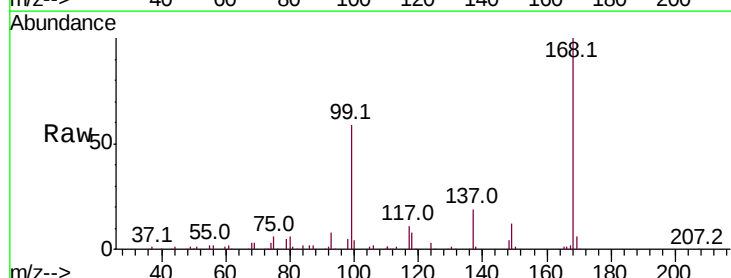
Tgt Ion: 117 Resp: 26594

Ion Ratio Lower Upper

117 100

119 3.2 76.9 115.3#

121 0.0 24.5 36.7#

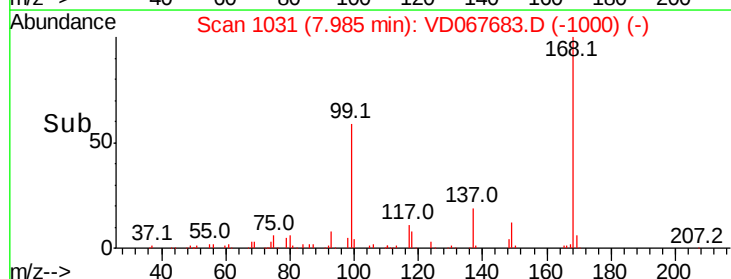


Abundance Ion 116.80 (116.50 to 117.50): VD067504.D (-1040) (-)

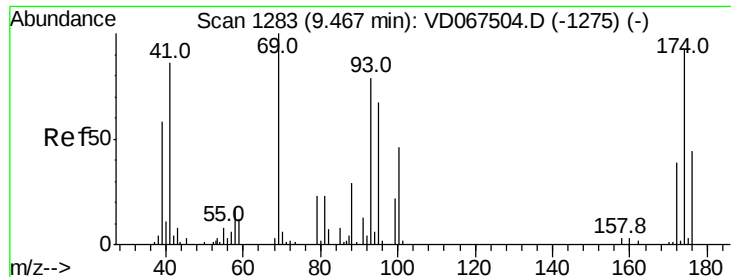
Ion 118.80 (118.50 to 119.50): VD067504.D (-1040) (-)

Ion 120.80 (120.50 to 121.50): VD067504.D (-1040) (-)

Time-->



Time-->



#49

1,4-Dioxane

Concen: 4.245 ug/l

RT: 9.55 min Scan# 1297

Delta R.T. 0.08 min

Lab File: VD067683.D

Acq: 18 Nov 2020 14:03

Instrument :

MSVOA\_D

ClientSampleId :

FJ-BH-04-0-1

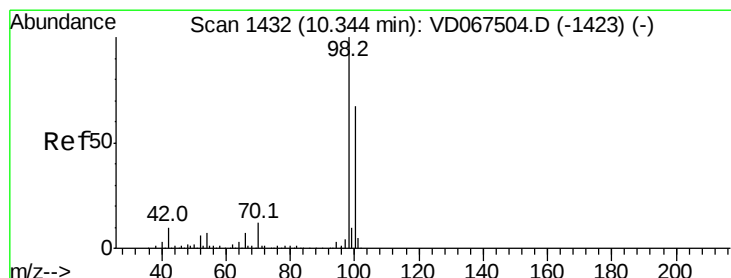
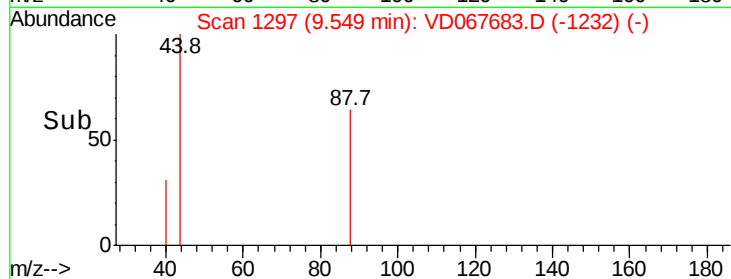
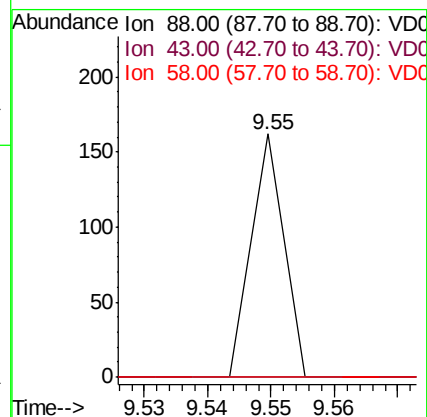
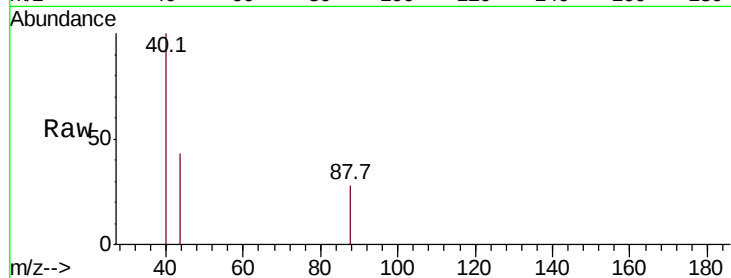
Tot Ion: 88 Resp: 57

Ion Ratio Lower Upper

88 100

43 0.0 23.6 35.4#

58 0.0 44.7 67.1#



#50

Toluene-d8

Concen: 54.721 ug/l

RT: 10.34 min Scan# 1432

Delta R.T. -0.00 min

Lab File: VD067683.D

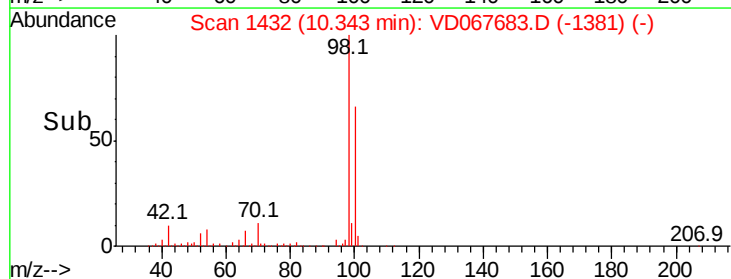
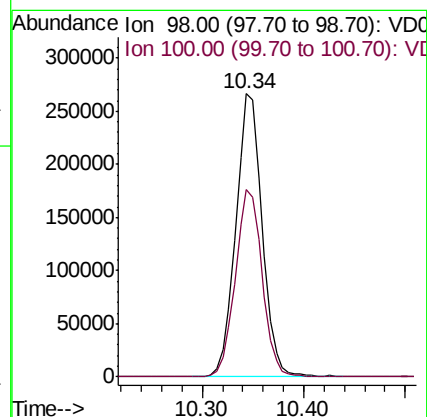
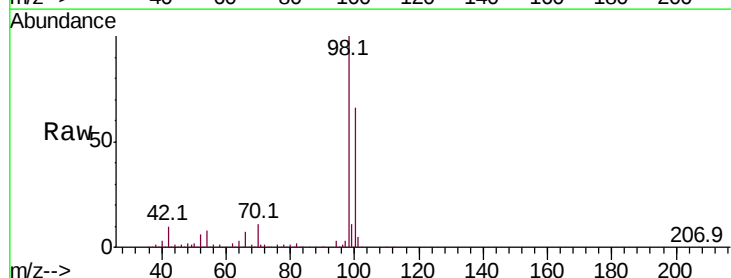
Acq: 18 Nov 2020 14:03

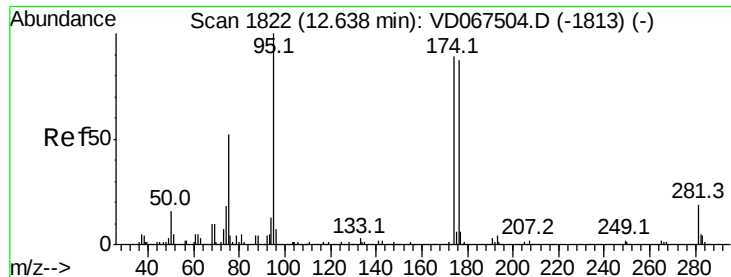
Tgt Ion: 98 Resp: 480820

Ion Ratio Lower Upper

98 100

100 67.5 53.0 79.6





#62

4-Bromofluorobenzene

Concen: 54.987 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.00 min

Lab File: VD067683.D

Acq: 18 Nov 2020 14:03

Instrument :

MSVOA\_D

ClientSampleId :

FJ-BH-04-0-1

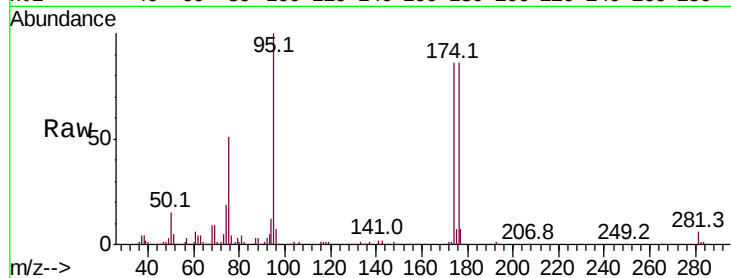
Tot Ion: 95 Resp: 166809

Ion Ratio Lower Upper

95 100

174 89.1 0.0 177.8

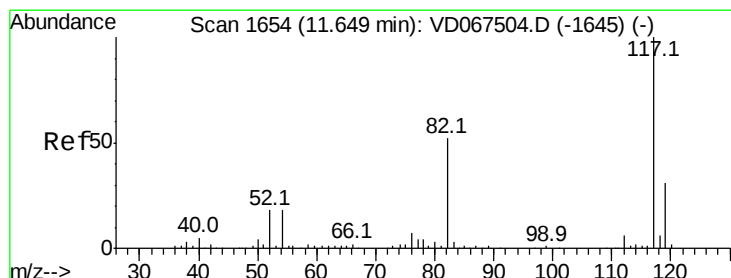
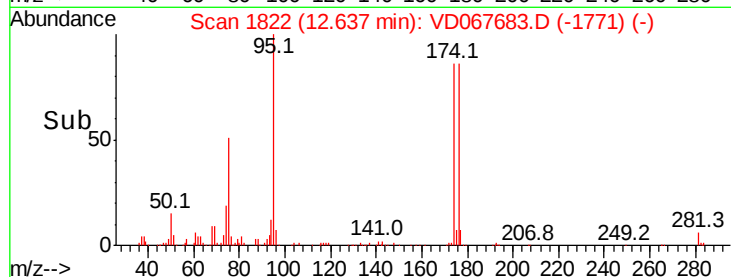
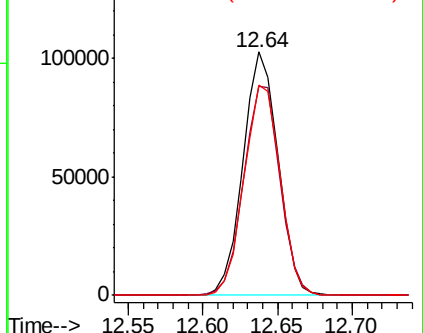
176 88.8 0.0 172.0



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: VD067683.D

Acq: 18 Nov 2020 14:03

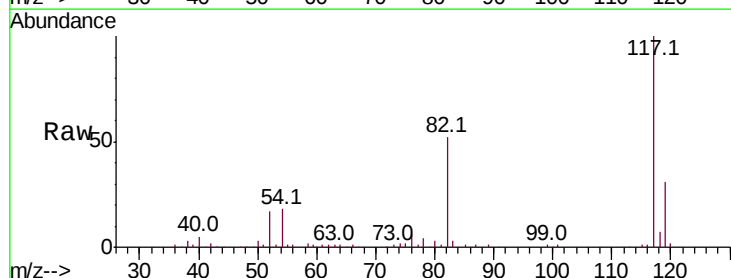
Tgt Ion: 117 Resp: 413475

Ion Ratio Lower Upper

117 100

82 51.5 41.6 62.4

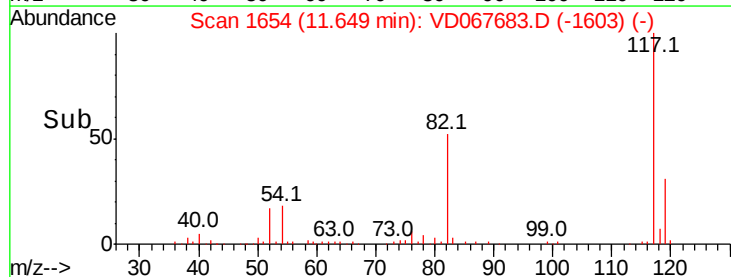
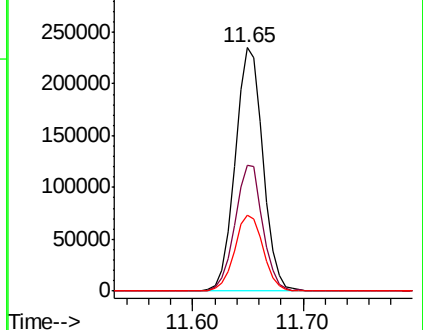
119 30.9 25.1 37.7

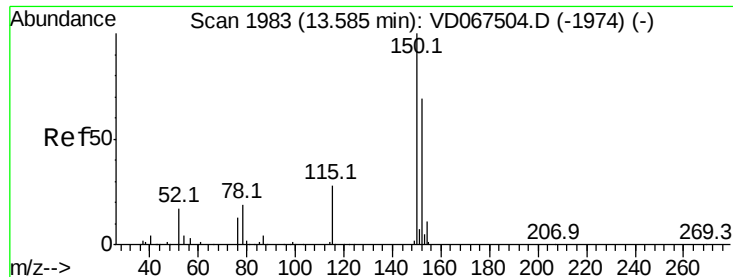


Abundance Ion 116.90 (116.60 to 117.60): V

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: VD067683.D

Acq: 18 Nov 2020 14:03

Instrument :

MSVOA\_D

ClientSampleId :

FJ-BH-04-0-1

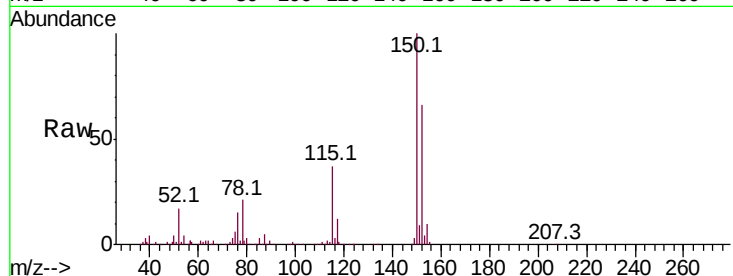
Tot Ion:152 Resp: 173443

Ion Ratio Lower Upper

152 100

115 58.1 29.3 88.0

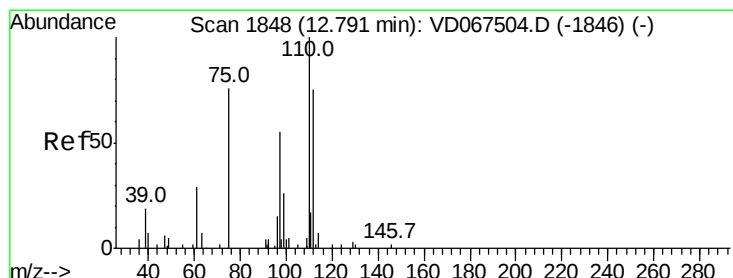
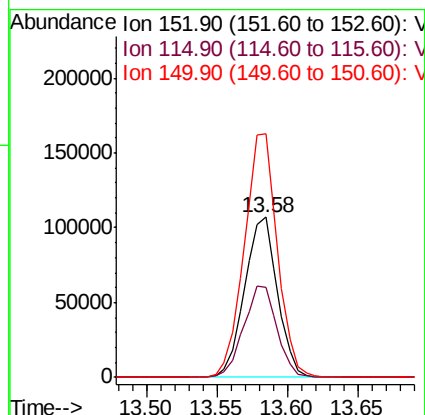
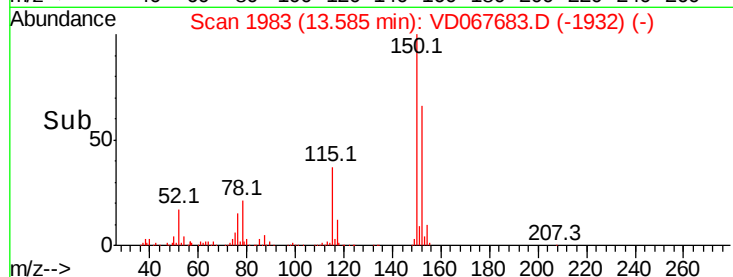
150 153.9 0.0 338.2



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: 80.595 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.15 min

Lab File: VD067683.D

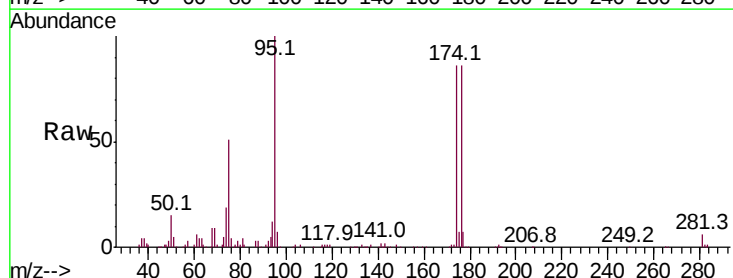
Acq: 18 Nov 2020 14:03

Tgt Ion: 75 Resp: 84327

Ion Ratio Lower Upper

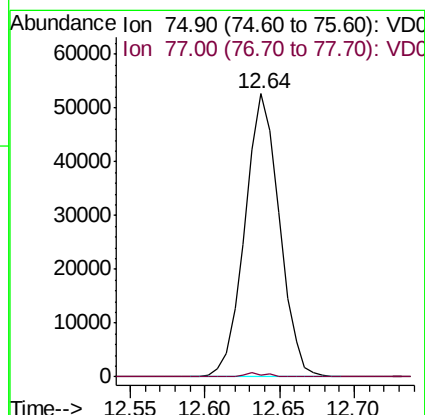
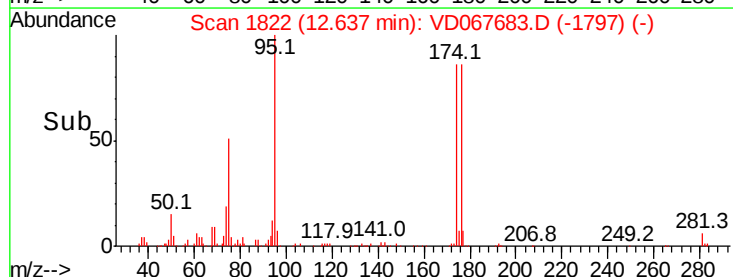
75 100

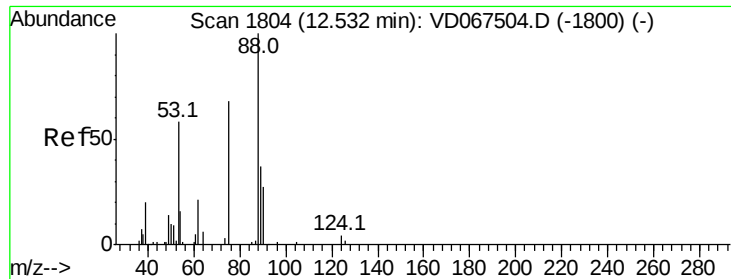
77 0.9 0.0 0.0#



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: 163.629 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.11 min

Lab File: VD067683.D

Acq: 18 Nov 2020 14:03

Instrument :

MSVOA\_D

ClientSampleId :

FJ-BH-04-0-1

Tot Ion: 75 Resp: 84327

Ion Ratio Lower Upper

75 100

53 0.0 75.9 113.9#

89 0.1 44.6 67.0#

