

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD120420\  
 Data File : VD067877.D  
 Acq On : 04 Dec 2020 10:54  
 Operator : VA/SY  
 Sample : VD1204SBL01  
 Misc : 5.00G/5.00ml/MSVOA D/SOIL  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VD1204SBL01

Quant Time: Dec 04 23:48:41 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D120120S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Dec 02 08:05:58 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.99  | 168  | 258369   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.87  | 114  | 353406   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.65 | 117  | 312021   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.58 | 152  | 156204   | 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       | 118348   | 42.67 | ug/l   | 0.00     |
| Spiked Amount               | 50.000 | Range | 50 - 163 | Recovery | =     | 85.34% |          |
| 35) Dibromofluoromethane    |        | 7.92  | 113      | 101470   | 42.91 | ug/l   | 0.00     |
| Spiked Amount               | 50.000 | Range | 54 - 147 | Recovery | =     | 85.82% |          |
| 50) Toluene-d8              |        | 10.34 | 98       | 394262   | 46.31 | ug/l   | 0.00     |
| Spiked Amount               | 50.000 | Range | 49 - 140 | Recovery | =     | 92.62% |          |
| 62) 4-Bromofluorobenzene    |        | 12.64 | 95       | 131945   | 44.83 | ug/l   | 0.00     |
| Spiked Amount               | 50.000 | Range | 25 - 144 | Recovery | =     | 89.66% |          |

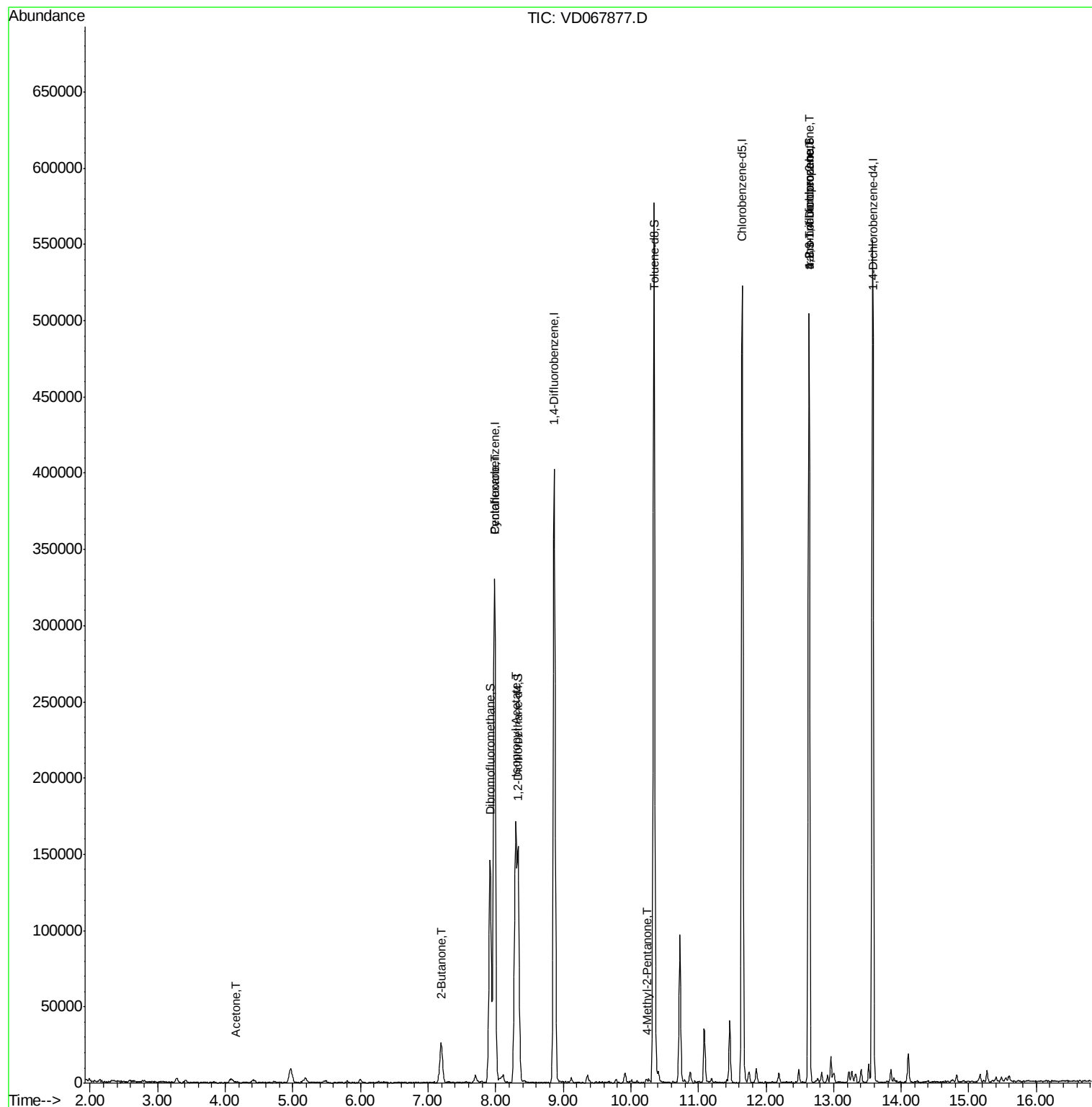
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 11) Tert butyl alcohol         | 5.19  | 59   | 1720     | Below Cal | #      | 74     |
| 16) Acetone                    | 4.16  | 43   | 1058     | 3.087     | ug/l # | 47     |
| 18) Methyl Acetate             | 4.73  | 43   | 56       | Below Cal | #      | 41     |
| 20) Methylene Chloride         | 4.97  | 84   | 8003     | Below Cal | #      | 92     |
| 25) 2-Butanone                 | 7.20  | 43   | 1372     | 3.806     | ug/l # | 36     |
| 31) Cyclohexane                | 7.99  | 56   | 5697     | 1.950     | ug/l # | 48     |
| 41) Methacrylonitrile          | 7.56  | 41   | 116      | Below Cal | #      | 14     |
| 43) Isopropyl Acetate          | 8.30  | 43   | 3110     | 1.917     | ug/l # | 1      |
| 51) 4-Methyl-2-Pentanone       | 10.24 | 43   | 1571     | 2.046     | ug/l   | 93     |
| 76) 1,2,3-Trichloropropane     | 12.64 | 75   | 72486    | 63.723    | ug/l # | 1      |
| 81) trans-1,4-Dichloro-2-buten | 12.64 | 75   | 72486    | 152.430   | ug/l # | 7      |

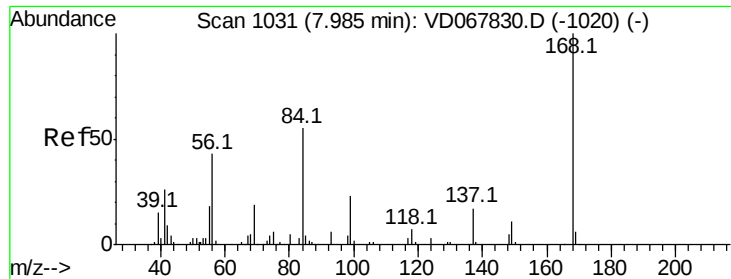
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Sample : VD1204SBL01  
Misc : 5.00G/5.00ml/MSVOA D/SOIL  
ALS Vial : 3 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
VD1204SBL01

Quant Time: Dec 04 23:48:41 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_D\METHOD\82D120120S.M  
Quant Title : SW846 8260  
QLast Update : Wed Dec 02 08:05:58 2020  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.99 min Scan# 1031

Delta R.T. 0.00 min

Lab File: VD067877.D

Acq: 04 Dec 2020 10:54

Instrument :

MSVOA\_D

ClientSampleId :

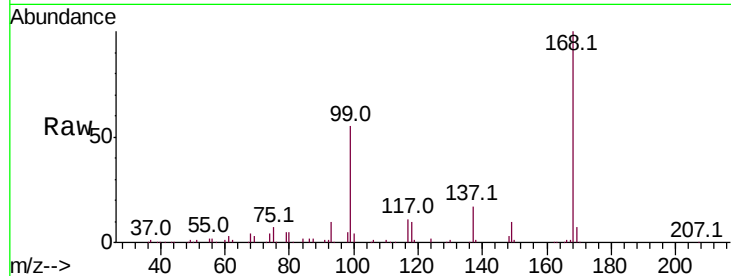
VD1204SBL01

Tot Ion:168 Resp: 258369

Ion Ratio Lower Upper

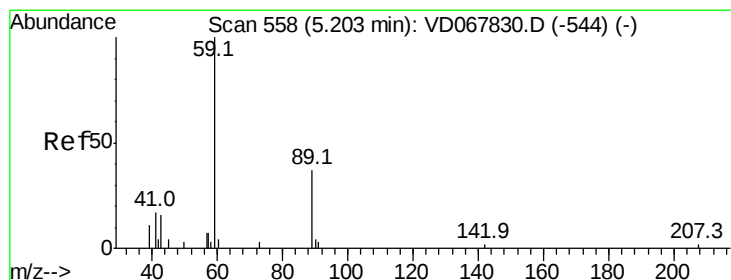
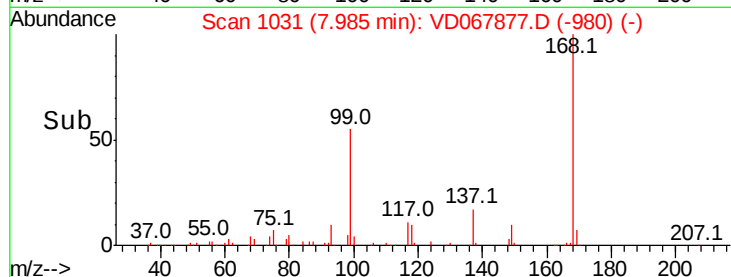
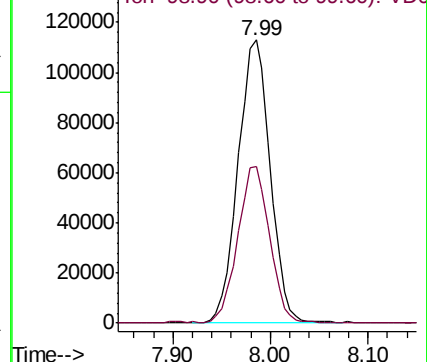
168 100

99 54.8 47.1 70.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC



#11

Tert butyl alcohol

Concen: Below Cal

RT: 5.19 min Scan# 555

Delta R.T. -0.02 min

Lab File: VD067877.D

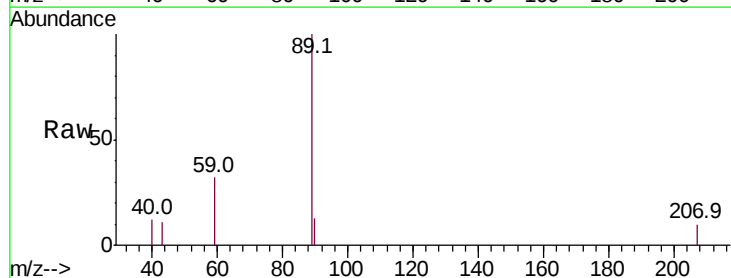
Acq: 04 Dec 2020 10:54

Tgt Ion: 59 Resp: 1720

Ion Ratio Lower Upper

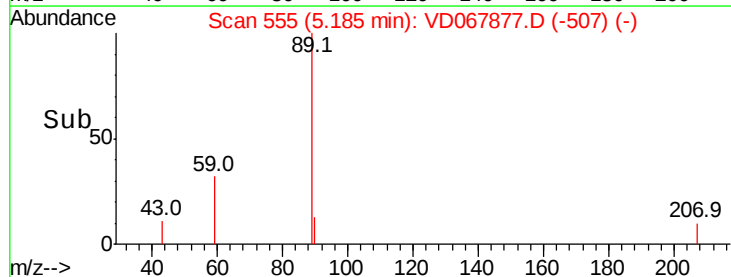
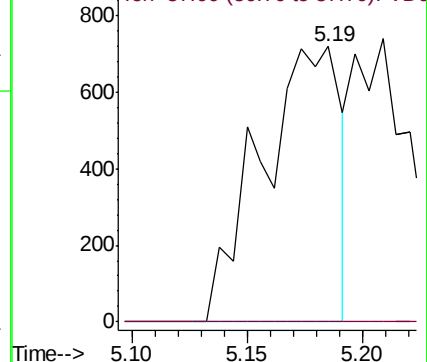
59 100

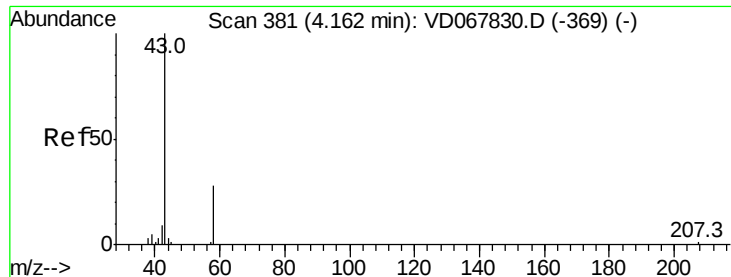
57 0.0 7.7 11.5#



Abundance Ion 59.00 (58.70 to 59.70): VDC

Ion 57.00 (56.70 to 57.70): VDC





#16

Acetone

Concen: 3.087 ug/l

RT: 4.16 min Scan# 380

Delta R.T. -0.01 min

Lab File: VD067877.D

Acq: 04 Dec 2020 10:54

Instrument :

MSVOA\_D

ClientSampleId :

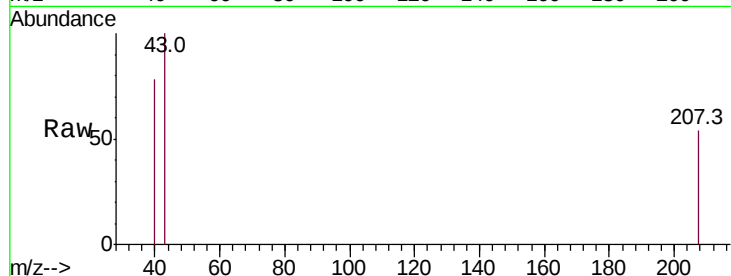
VD1204SBL01

Tot Ion: 43 Resp: 1058

Ion Ratio Lower Upper

43 100

58 0.0 21.9 32.9#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC

4.16

500

400

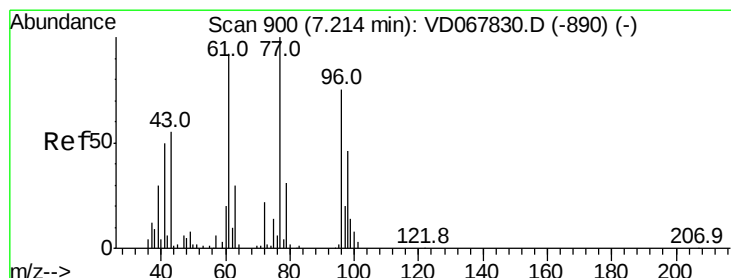
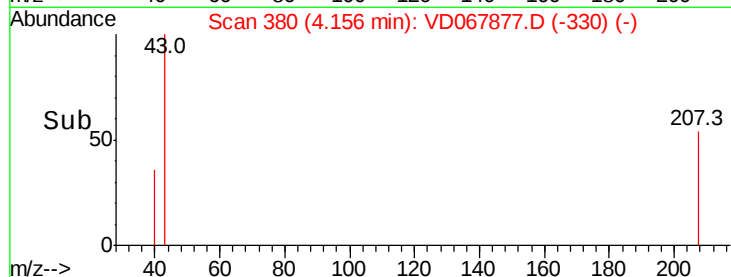
300

200

100

0

Time--> 4.10 4.15 4.20



#25

2-Butanone

Concen: 3.806 ug/l

RT: 7.20 min Scan# 898

Delta R.T. -0.01 min

Lab File: VD067877.D

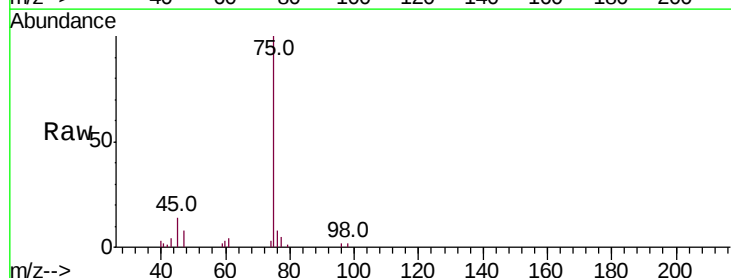
Acq: 04 Dec 2020 10:54

Tgt Ion: 43 Resp: 1372

Ion Ratio Lower Upper

43 100

72 0.0 31.3 46.9#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 72.00 (71.70 to 72.70): VDC

7.20

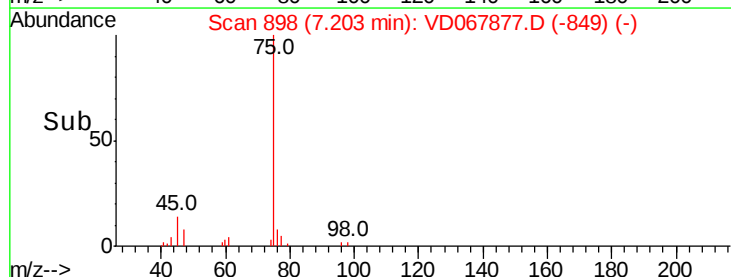
600

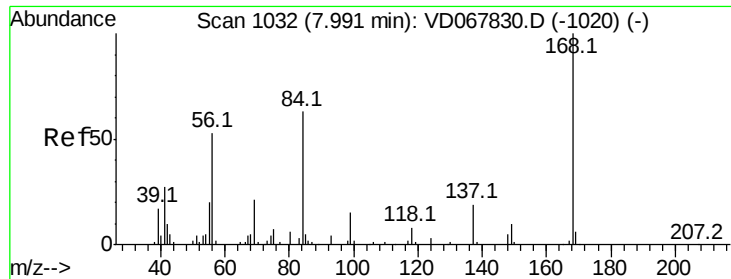
400

200

0

Time--> 7.15 7.20 7.25

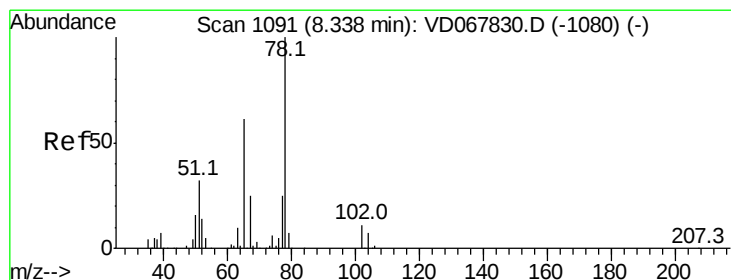
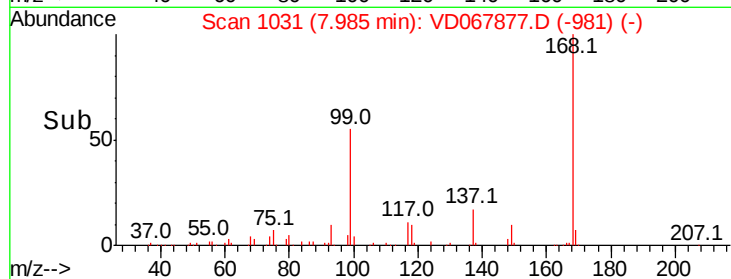
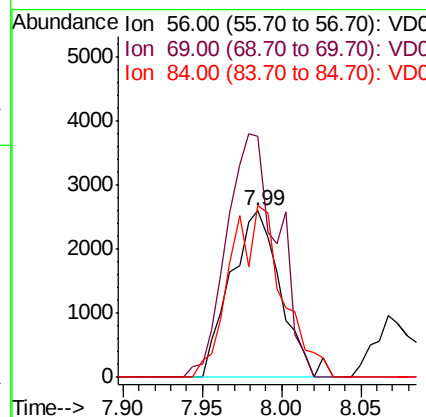
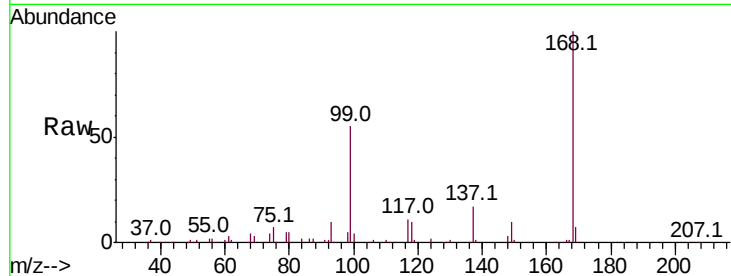




#31  
Cyclohexane  
Concen: 1.950 ug/l  
RT: 7.99 min Scan# 1031  
Delta R.T. -0.01 min  
Lab File: VD067877.D  
Acq: 04 Dec 2020 10:54

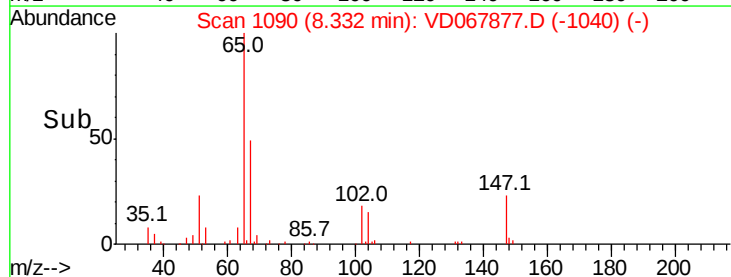
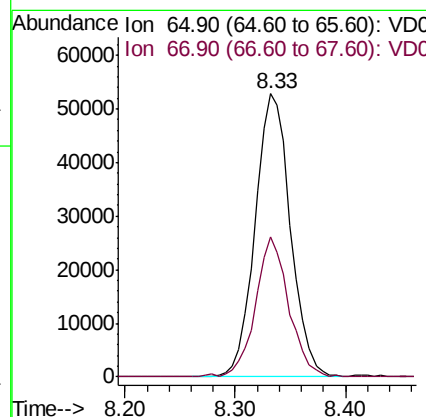
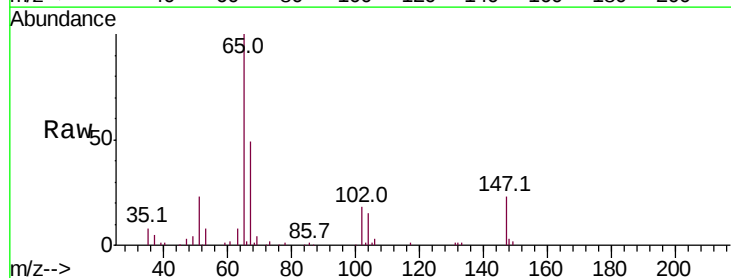
Instrument :  
MSVOA\_D  
ClientSampleId :  
VD1204SBL01

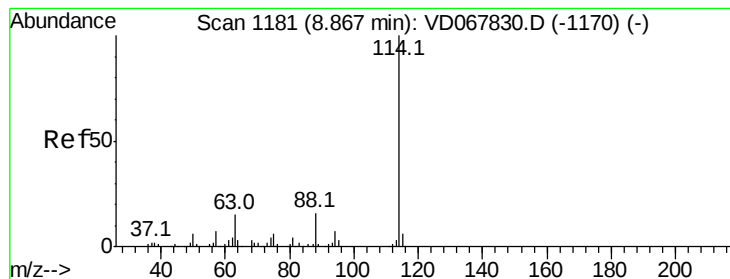
Tot Ion: 56 Resp: 5697  
Ion Ratio Lower Upper  
56 100  
69 145.0 32.1 48.1#  
84 103.3 93.2 139.8



#33  
1,2-Dichloroethane-d4  
Concen: 42.668 ug/l  
RT: 8.33 min Scan# 1090  
Delta R.T. -0.01 min  
Lab File: VD067877.D  
Acq: 04 Dec 2020 10:54

Tgt Ion: 65 Resp: 118348  
Ion Ratio Lower Upper  
65 100  
67 46.8 0.0 92.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.87 min Scan# 1181

Delta R.T. 0.00 min

Lab File: VD067877.D

Acq: 04 Dec 2020 10:54

Instrument :

MSVOA\_D

ClientSampleId :

VD1204SBL01

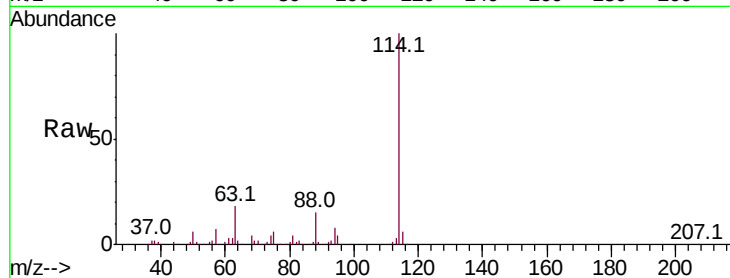
Tot Ion:114 Resp: 353406

Ion Ratio Lower Upper

114 100

63 18.0 0.0 30.8

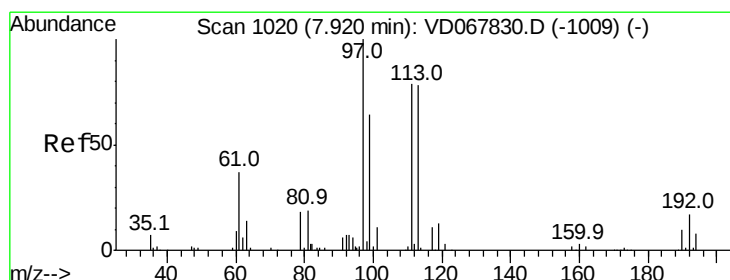
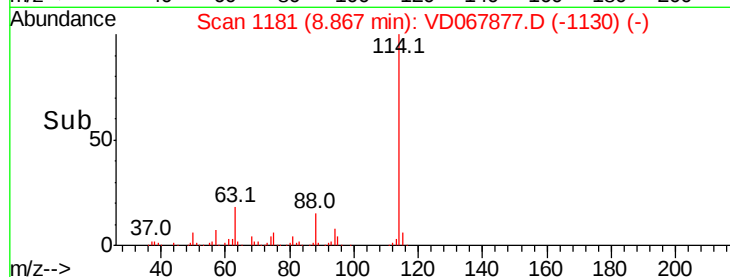
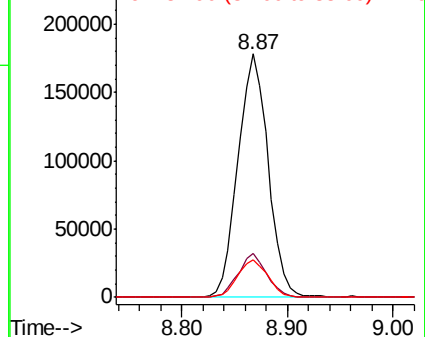
88 15.3 0.0 31.8



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: 42.909 ug/l

RT: 7.92 min Scan# 1020

Delta R.T. 0.00 min

Lab File: VD067877.D

Acq: 04 Dec 2020 10:54

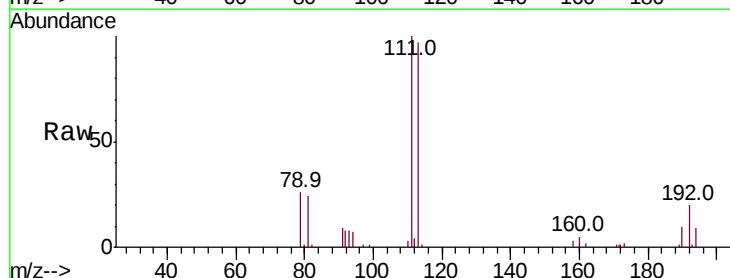
Tgt Ion:113 Resp: 101470

Ion Ratio Lower Upper

113 100

111 104.9 81.2 121.8

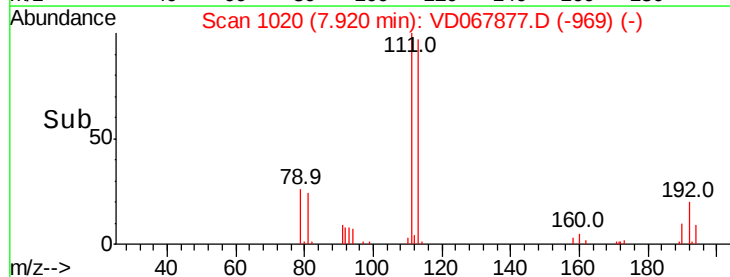
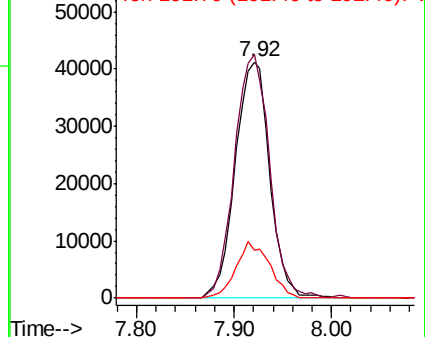
192 23.3 16.8 25.2

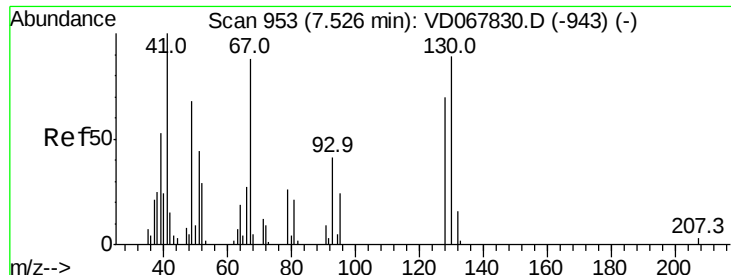


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

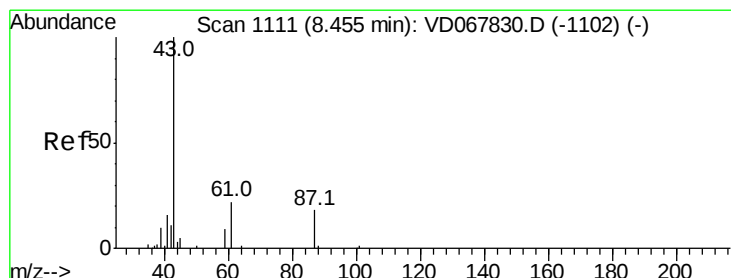
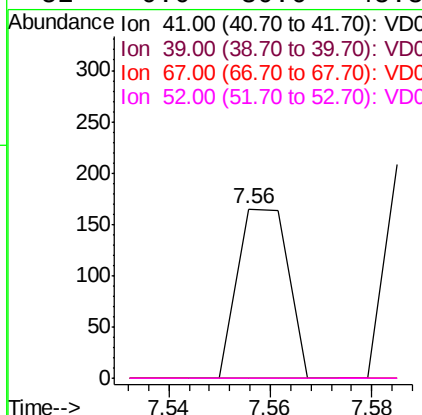
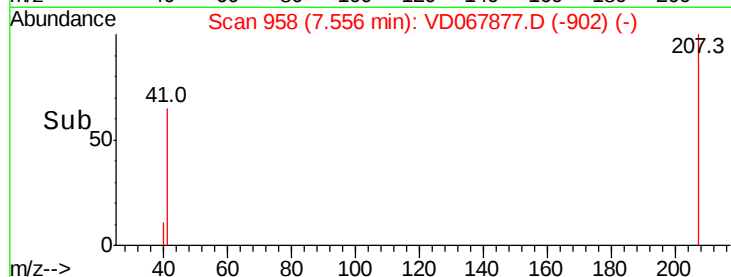
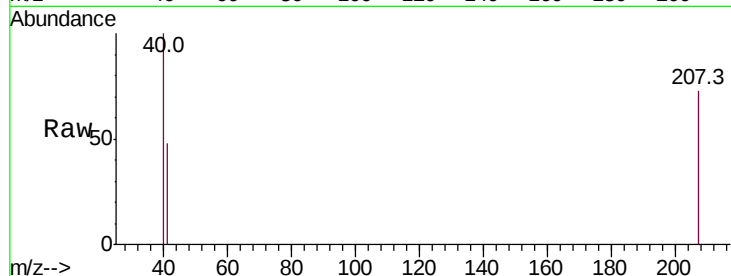




#41  
Methacrylonitrile  
Concen: Below Cal  
RT: 7.56 min Scan# 958  
Delta R.T. 0.03 min  
Lab File: VD067877.D  
Acq: 04 Dec 2020 10:54

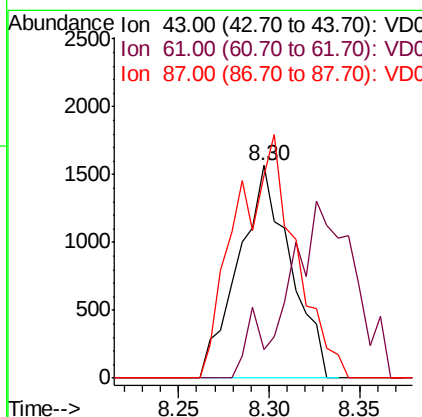
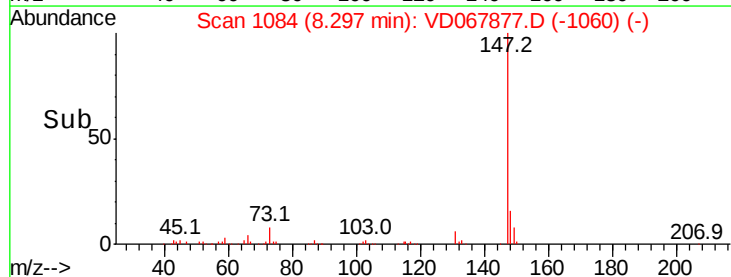
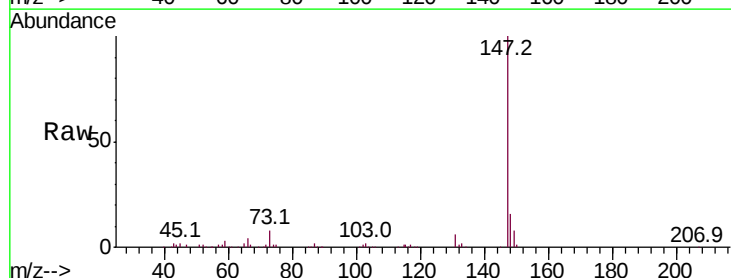
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MSVOA\_D  
ClientSampleId :  
VD1204SBL01

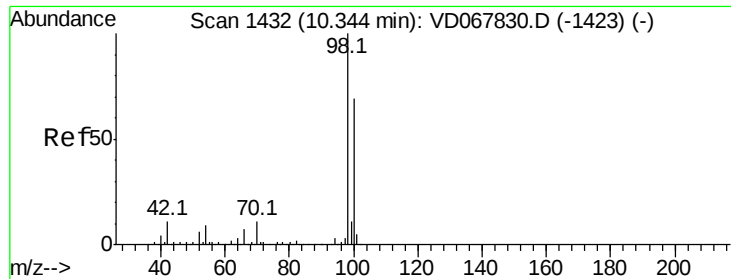
Tot Ion: 41 Resp: 116  
Ion Ratio Lower Upper  
41 100  
39 0.0 42.1 63.1#  
67 0.0 82.4 123.6#  
52 0.0 30.6 45.8#



#43  
Isopropyl Acetate  
Concen: 1.917 ug/l  
RT: 8.30 min Scan# 1084  
Delta R.T. -0.16 min  
Lab File: VD067877.D  
Acq: 04 Dec 2020 10:54

Tgt Ion: 43 Resp: 3110  
Ion Ratio Lower Upper  
43 100  
61 10.2 30.4 45.6#  
87 131.0 16.2 24.2#

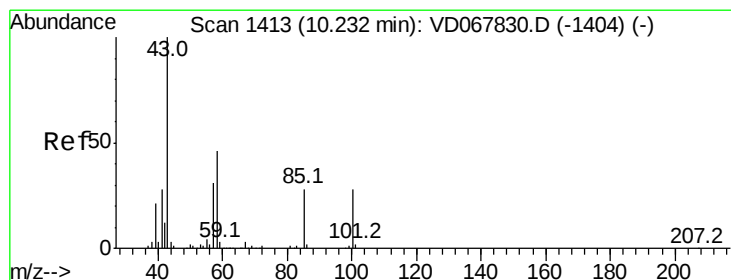
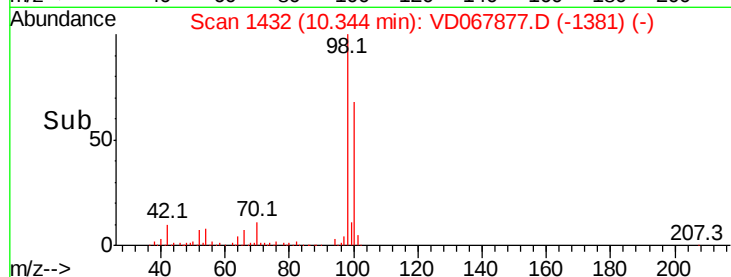
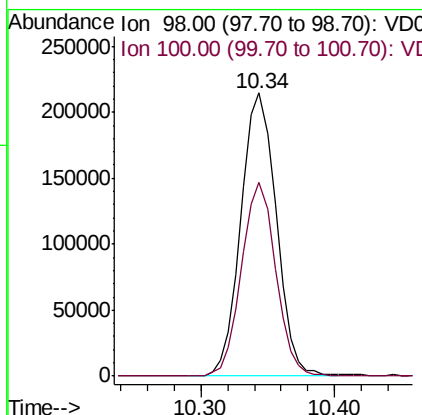
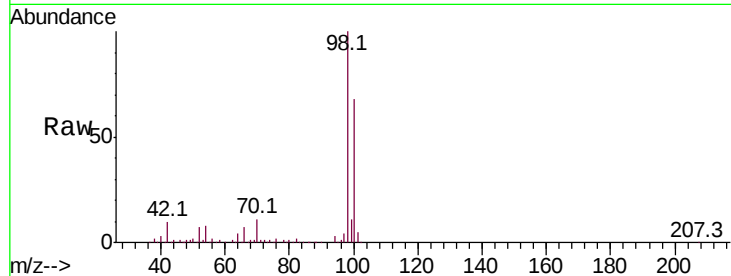




#50  
Toluene-d8  
Concen: 46.314 ug/l  
RT: 10.34 min Scan# 1432  
Delta R.T. 0.00 min  
Lab File: VD067877.D  
Acq: 04 Dec 2020 10:54

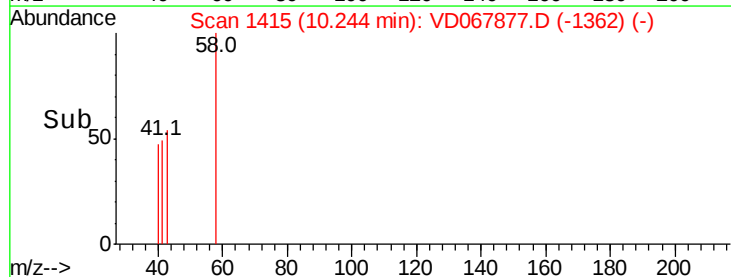
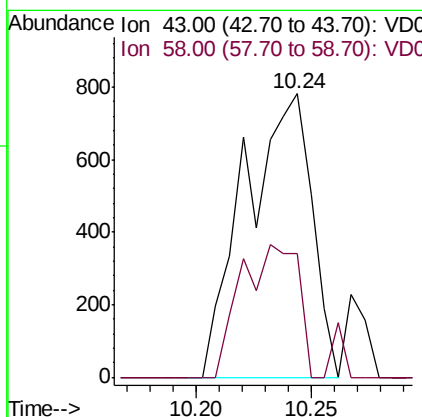
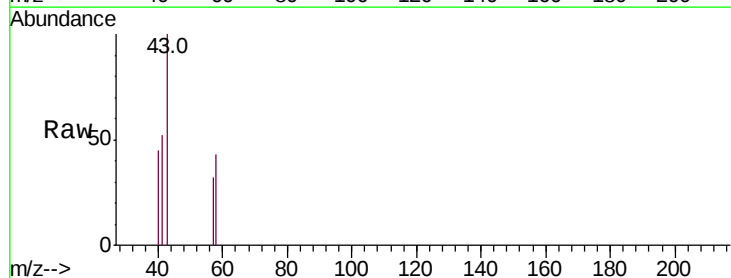
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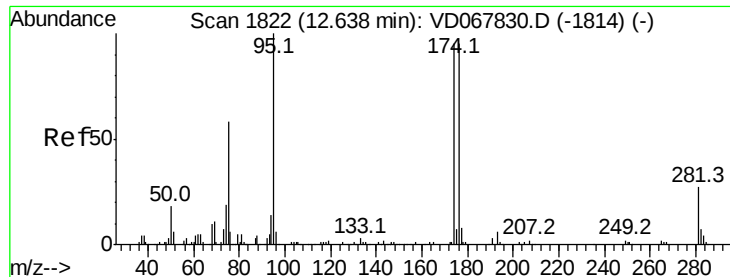
Tot Ion: 98 Resp: 394262  
Ion Ratio Lower Upper  
98 100  
100 66.6 52.9 79.3



#51  
4-Methyl-2-Pentanone  
Concen: 2.046 ug/l  
RT: 10.24 min Scan# 1415  
Delta R.T. 0.01 min  
Lab File: VD067877.D  
Acq: 04 Dec 2020 10:54

Tgt Ion: 43 Resp: 1571  
Ion Ratio Lower Upper  
43 100  
58 40.1 35.7 53.5





#62

4-Bromofluorobenzene

Concen: 44.832 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.00 min

Lab File: VD067877.D

Acq: 04 Dec 2020 10:54

Instrument :

MSVOA\_D

ClientSampleId :

VD1204SBL01

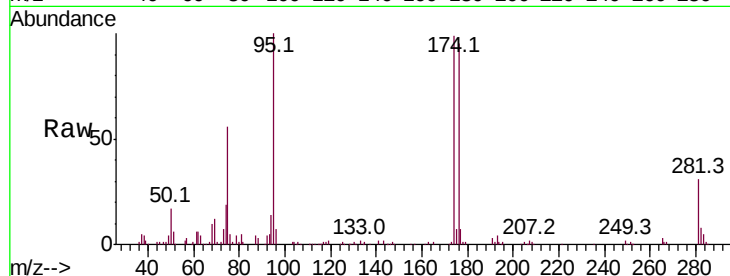
Tot Ion: 95 Resp: 131945

Ion Ratio Lower Upper

95 100

174 96.2 0.0 186.0

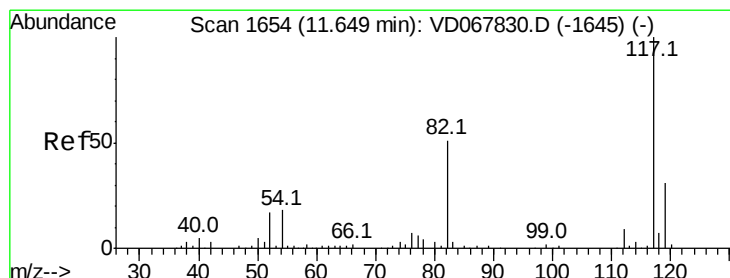
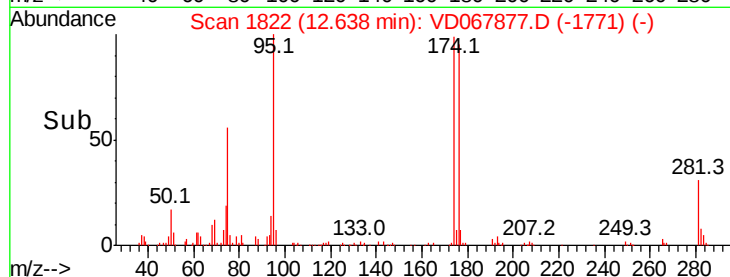
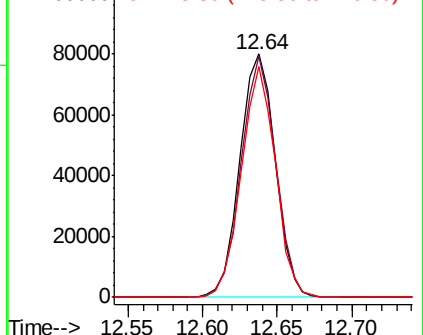
176 90.8 0.0 184.2



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: 50.000 ug/l

RT: 11.65 min Scan# 1654

Delta R.T. 0.00 min

Lab File: VD067877.D

Acq: 04 Dec 2020 10:54

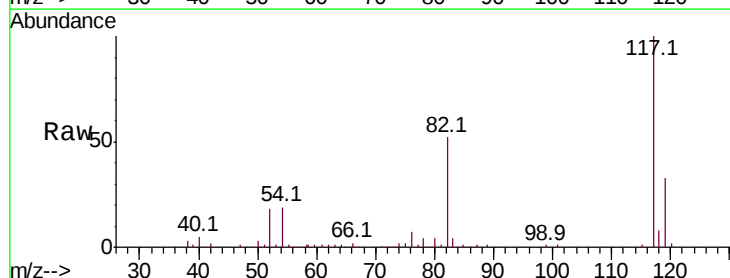
Tgt Ion: 117 Resp: 312021

Ion Ratio Lower Upper

117 100

82 52.4 40.6 60.8

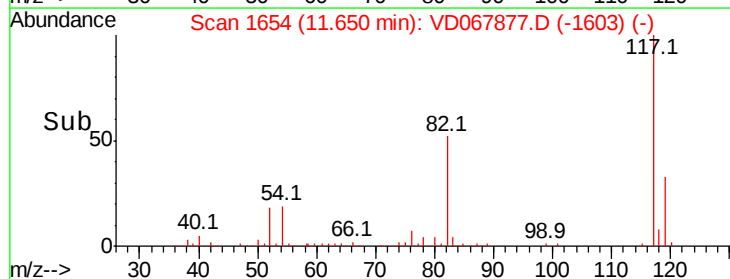
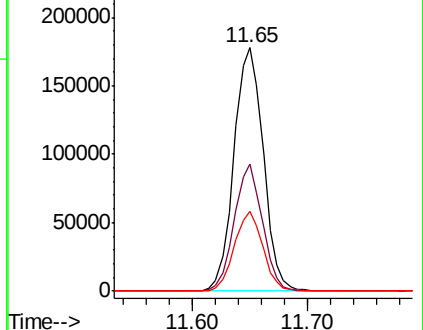
119 32.8 25.1 37.7

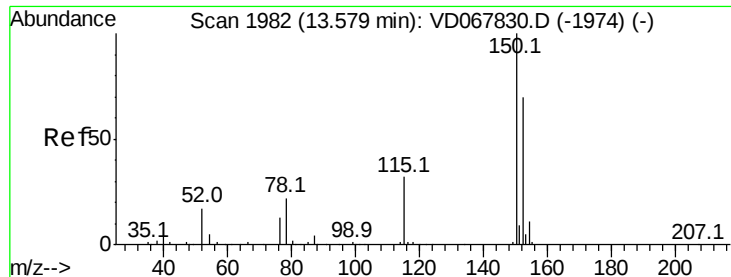


Abundance Ion 116.90 (116.60 to 117.60): V

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# 1982

Delta R.T. 0.00 min

Lab File: VD067877.D

Acq: 04 Dec 2020 10:54

Instrument :

MSVOA\_D

ClientSampleId :

VD1204SBL01

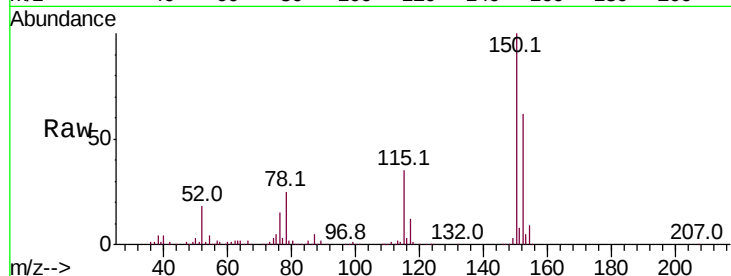
Tot Ion:152 Resp: 156204

Ion Ratio Lower Upper

152 100

115 57.2 29.1 87.4

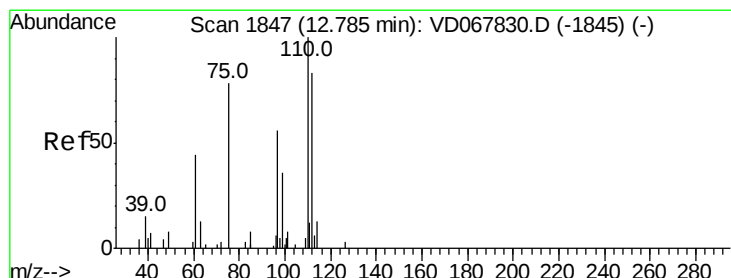
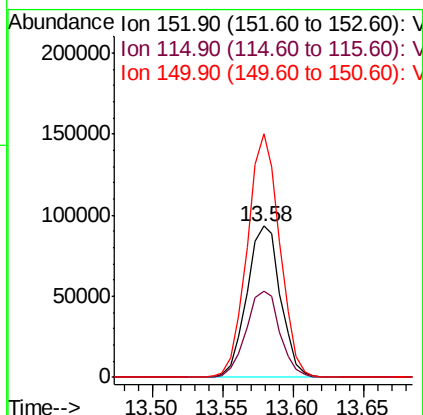
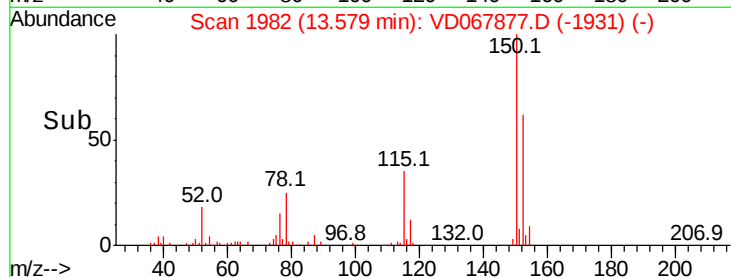
150 155.0 0.0 339.0



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: 63.723 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.15 min

Lab File: VD067877.D

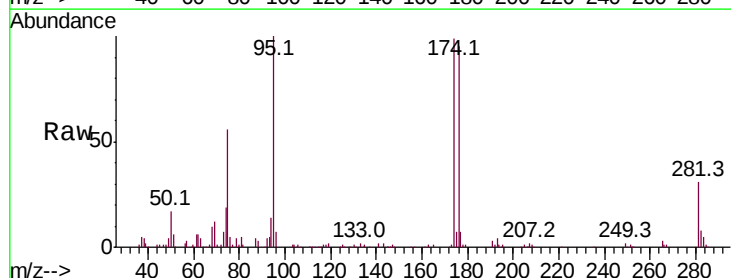
Acq: 04 Dec 2020 10:54

Tgt Ion: 75 Resp: 72486

Ion Ratio Lower Upper

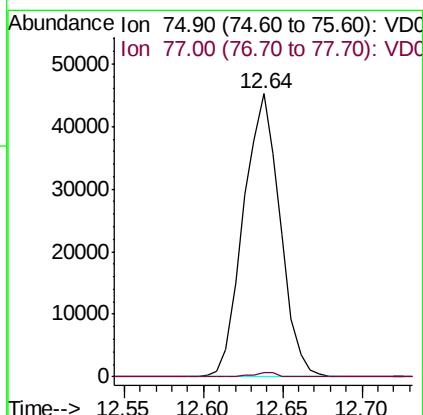
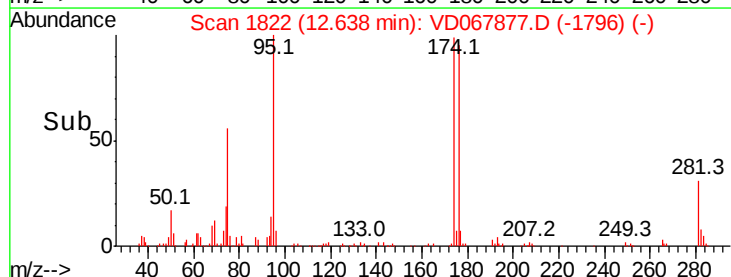
75 100

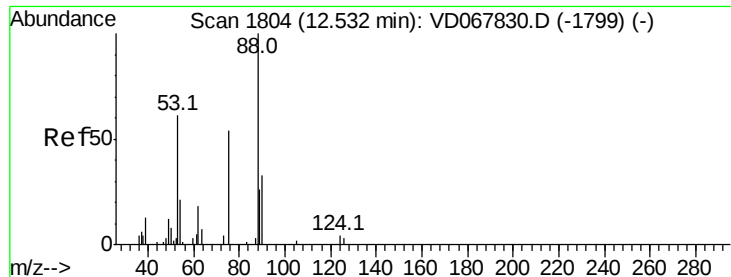
77 1.2 175.9 527.7#



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: 152.430 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.11 min

Lab File: VD067877.D

Acq: 04 Dec 2020 10:54

Instrument :

MSVOA\_D

ClientSampleId :

VD1204SBL01

Tot Ion: 75 Resp: 72486

Ion Ratio Lower Upper

75 100

53 0.0 84.6 127.0#

89 0.0 41.0 61.6#

