

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD102320\  
 Data File : VD067378.D  
 Acq On : 23 Oct 2020 13:26  
 Operator : VA/SY  
 Sample : L4501-01  
 Misc : 6.92G/5.00ml/MSVOA D/SOIL  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 COMP-1

Quant Time: Oct 24 07:19:44 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D101320S.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Oct 19 19:13:29 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.99  | 168  | 327630   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.87  | 114  | 528604   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.65 | 117  | 523226   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.58 | 152  | 273061   | 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   | 166867   | 50.84 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 101.68% |          |
| 35) Dibromofluoromethane    | 7.92  | 113  | 166778   | 47.41 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 94.82%  |          |
| 50) Toluene-d8              | 10.34 | 98   | 620272   | 48.72 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 97.44%  |          |
| 62) 4-Bromofluorobenzene    | 12.64 | 95   | 245935   | 55.56 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 111.12% |          |

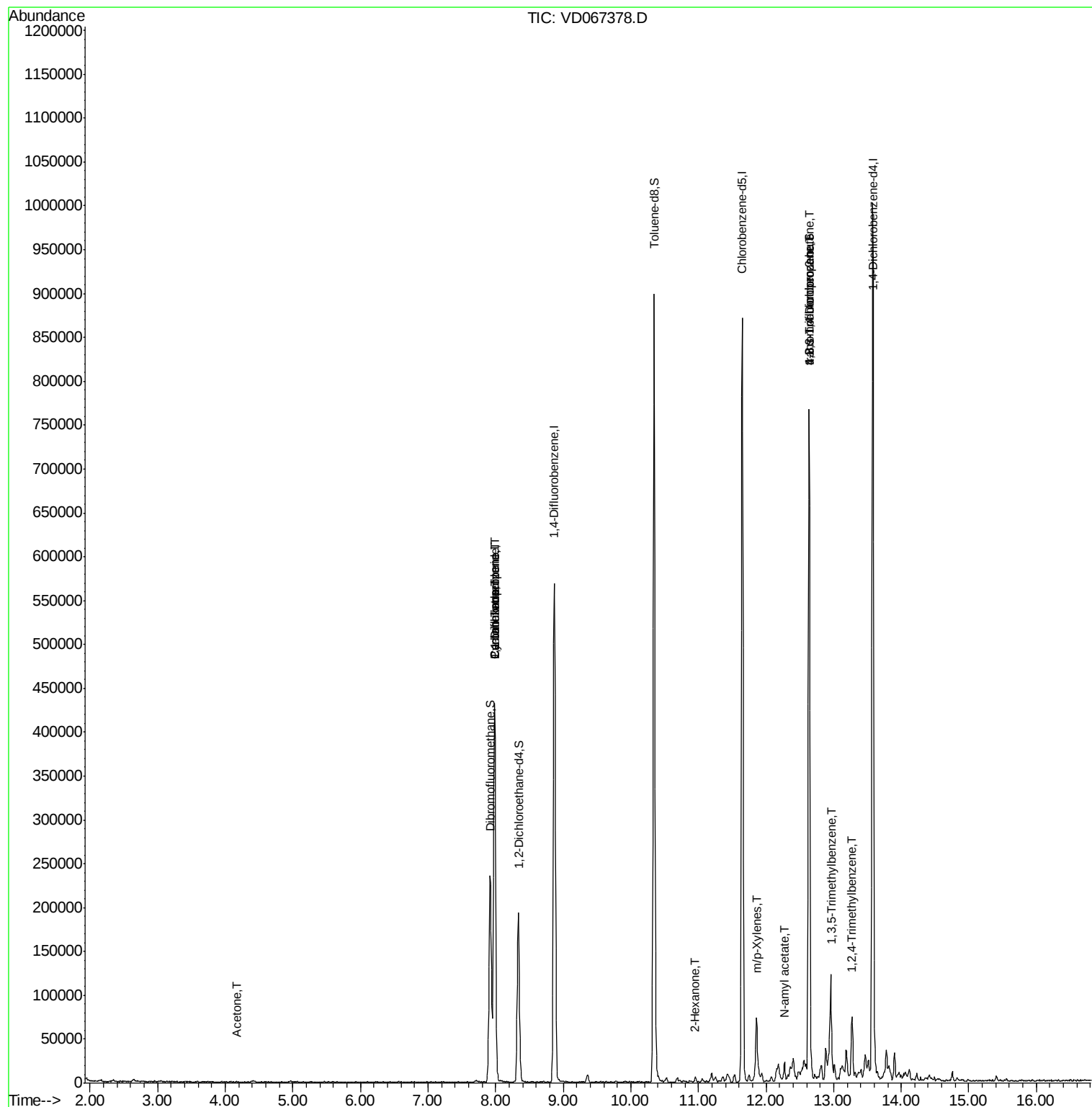
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 2) Dichlorodifluoromethane     | 1.99  | 85   | 160      | Below Cal | #      | 44     |
| 5) Bromomethane                | 2.76  | 94   | 205      | Below Cal | #      | 31     |
| 16) Acetone                    | 4.16  | 43   | 790      | 1.719     | ug/l # | 42     |
| 20) Methylene Chloride         | 4.95  | 84   | 409      | Below Cal | #      | 63     |
| 31) Cyclohexane                | 7.98  | 56   | 6981     | 1.847     | ug/l # | 24     |
| 36) 1,1-Dichloropropene        | 7.99  | 75   | 22659    | 5.057     | ug/l # | 50     |
| 38) Carbon Tetrachloride       | 7.99  | 117  | 32959    | 5.756     | ug/l # | 18     |
| 59) 2-Hexanone                 | 10.96 | 43   | 1558     | 1.748     | ug/l # | 22     |
| 68) m/p-Xylenes                | 11.86 | 106  | 12495    | 1.887     | ug/l   | 98     |
| 74) N-amyl acetate             | 12.27 | 43   | 3833     | 1.464     | ug/l # | 73     |
| 76) 1,2,3-Trichloropropane     | 12.64 | 75   | 125534   | 66.330    | ug/l # | 100    |
| 80) 1,3,5-Trimethylbenzene     | 12.97 | 105  | 18385    | 1.221     | ug/l   | 93     |
| 81) trans-1,4-Dichloro-2-buten | 12.64 | 75   | 125534   | 150.416   | ug/l # | 10     |
| 84) 1,2,4-Trimethylbenzene     | 13.27 | 105  | 39193    | 2.633     | ug/l   | 96     |

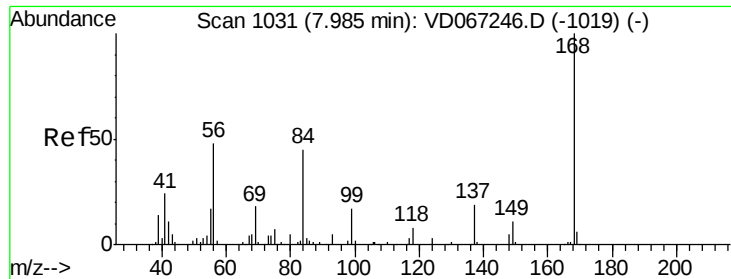
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD102320\  
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Sample : L4501-01  
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Instrument :  
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COMP-1

Quant Time: Oct 24 07:19:44 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_D\METHOD\82D101320S.M  
Quant Title : SW846 8260  
QLast Update : Mon Oct 19 19:13:29 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: VD067378.D

Acq: 23 Oct 2020 13:26

Instrument :

MSVOA\_D

ClientSampleId :

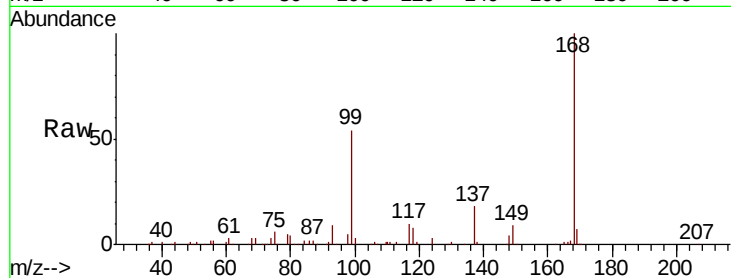
COMP-1

Tot Ion:168 Resp: 327630

Ion Ratio Lower Upper

168 100

99 53.7 45.9 68.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC

150000

100000

50000

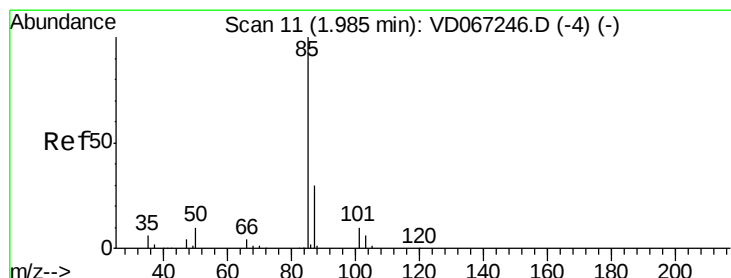
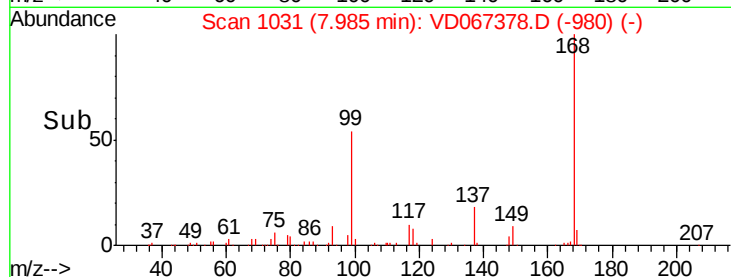
0

7.99

8.00

8.10

Time-->



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.99 min Scan# 11

Delta R.T. 0.00 min

Lab File: VD067378.D

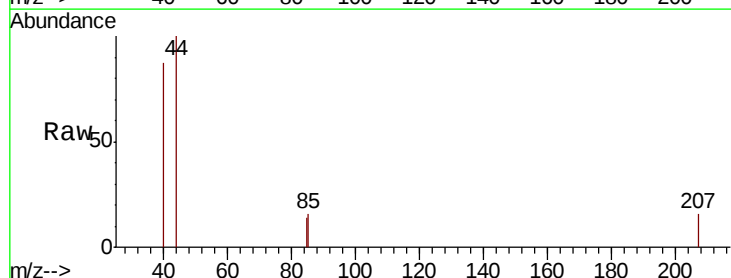
Acq: 23 Oct 2020 13:26

Tgt Ion: 85 Resp: 160

Ion Ratio Lower Upper

85 100

87 0.0 15.2 45.6#



Abundance Ion 84.90 (84.60 to 85.60): VDC

Ion 86.90 (86.60 to 87.60): VDC

500

400

300

200

100

0

1.99

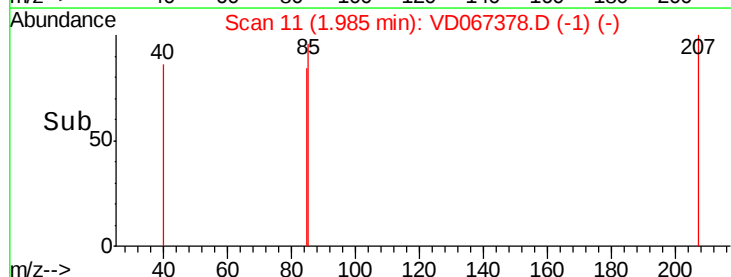
1.97

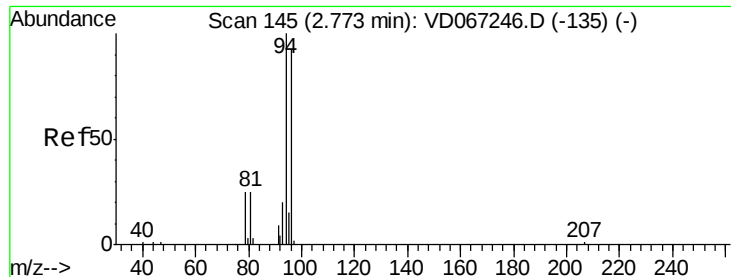
1.98

1.99

2.00

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 2.76 min Scan# 143

Delta R.T. -0.01 min

Lab File: VD067378.D

Acq: 23 Oct 2020 13:26

Instrument :

MSVOA\_D

ClientSampleId :

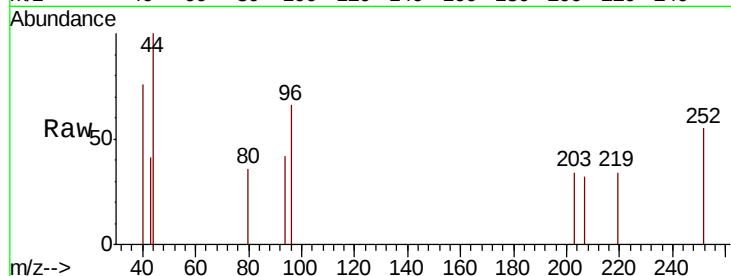
COMP-1

Tot Ion: 94 Resp: 205

Ion Ratio Lower Upper

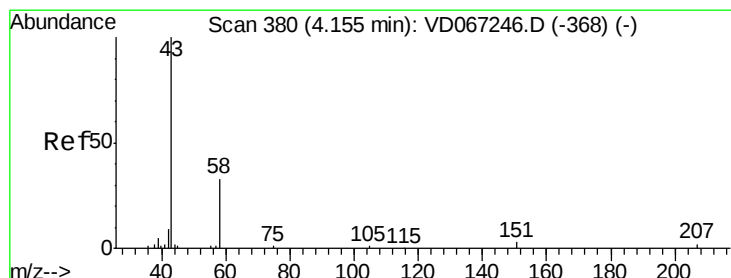
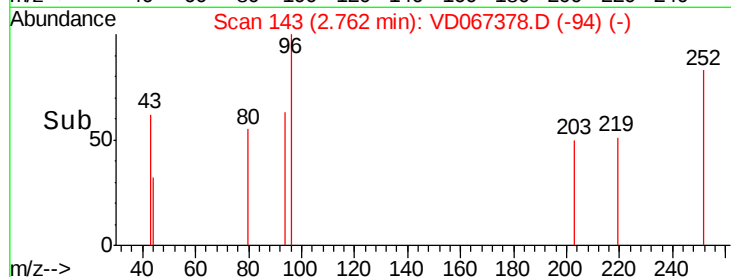
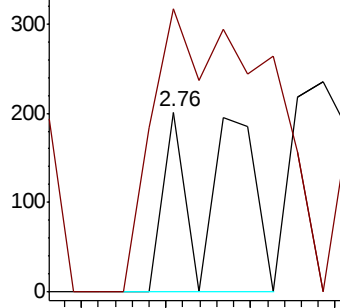
94 100

96 157.7 73.8 110.6#



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC



#16

Acetone

Concen: 1.719 ug/l

RT: 4.16 min Scan# 381

Delta R.T. 0.01 min

Lab File: VD067378.D

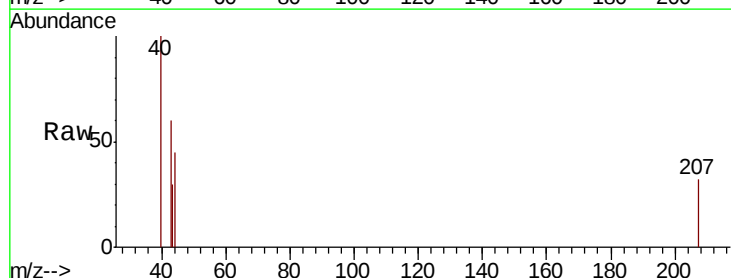
Acq: 23 Oct 2020 13:26

Tgt Ion: 43 Resp: 790

Ion Ratio Lower Upper

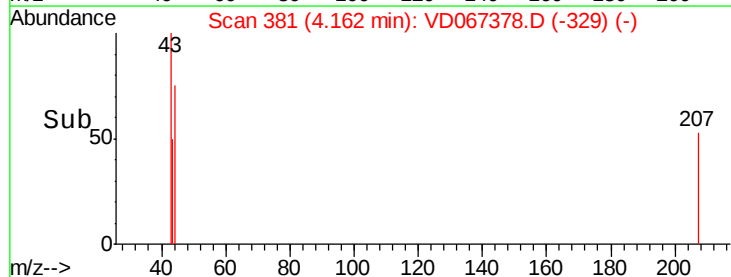
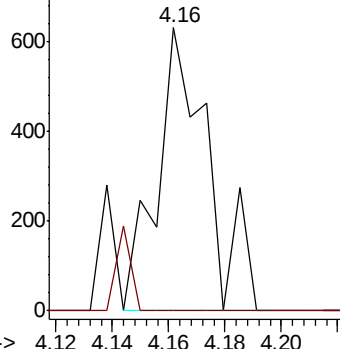
43 100

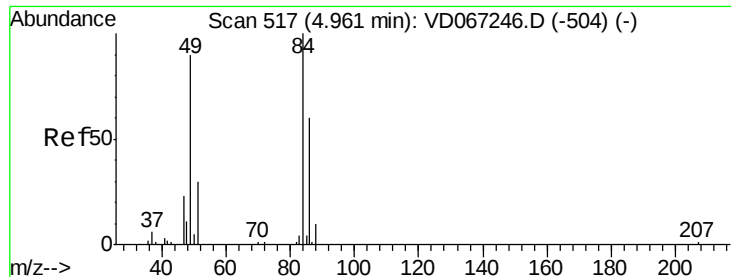
58 0.0 26.1 39.1#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC

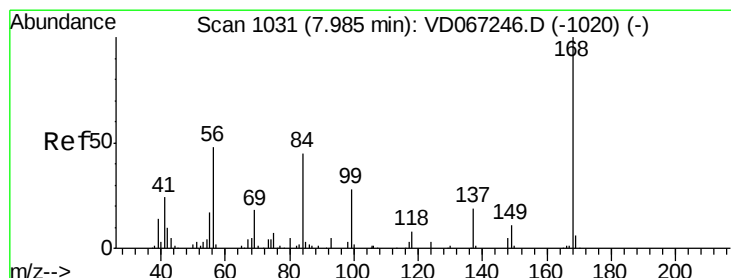
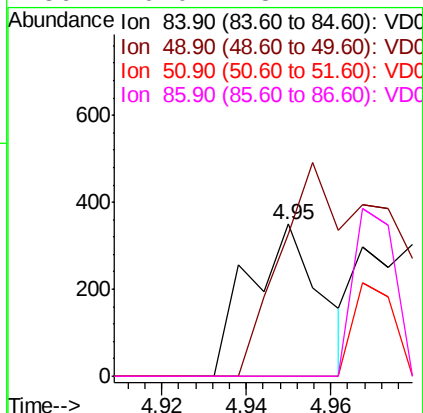
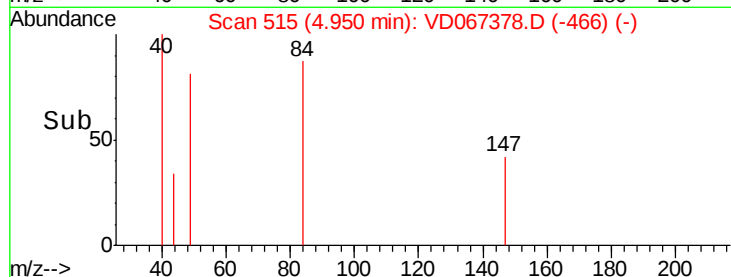
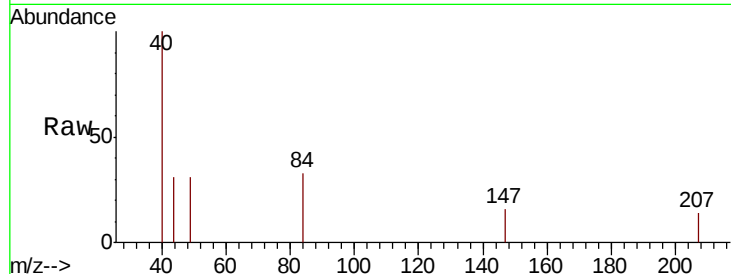




#20  
Methvlene Chloride  
Concen: Below Cal  
RT: 4.95 min Scan# 515  
Delta R.T. -0.01 min  
Lab File: VD067378.D  
Acq: 23 Oct 2020 13:26

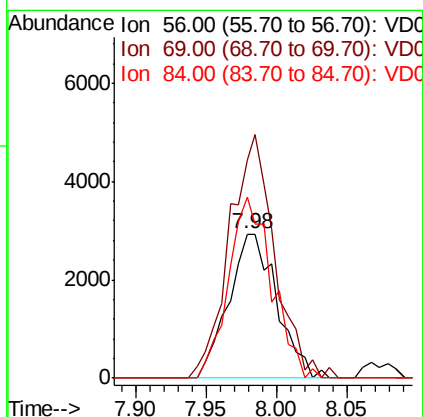
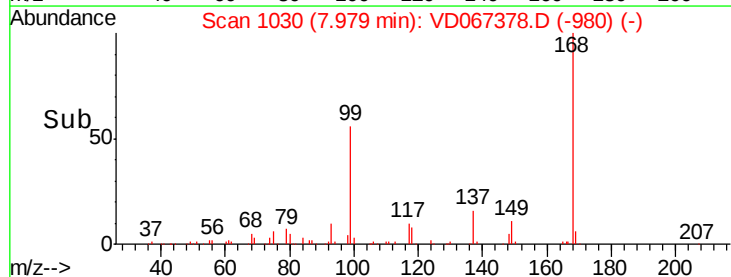
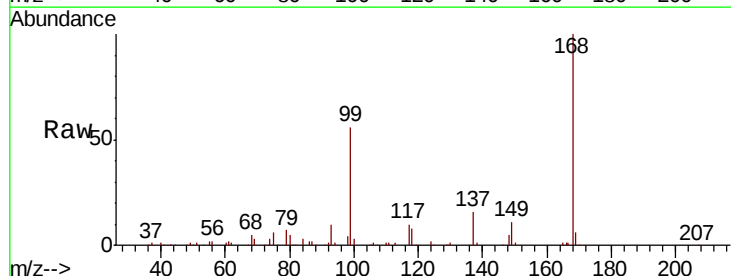
Instrument :  
MSVOA\_D  
ClientSampleId :  
COMP-1

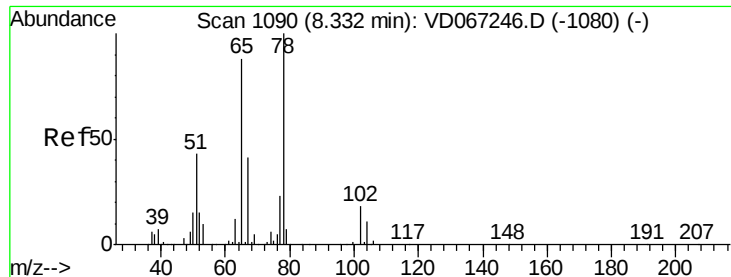
Tot Ion: 84 Resp: 409  
Ion Ratio Lower Upper  
84 100  
49 93.1 72.2 108.2  
51 0.0 23.8 35.8#  
86 0.0 48.2 72.4#



#31  
Cyclohexane  
Concen: 1.847 ug/l  
RT: 7.98 min Scan# 1030  
Delta R.T. -0.01 min  
Lab File: VD067378.D  
Acq: 23 Oct 2020 13:26

Tgt Ion: 56 Resp: 6981  
Ion Ratio Lower Upper  
56 100  
69 151.6 29.8 44.6#  
84 125.7 76.6 114.8#





#33

1,2-Dichloroethane-d4

Concen: 50.837 ug/l

RT: 8.34 min Scan# 1091

Delta R.T. 0.01 min

Lab File: VD067378.D

Acq: 23 Oct 2020 13:26

Instrument :

MSVOA\_D

ClientSampleId :

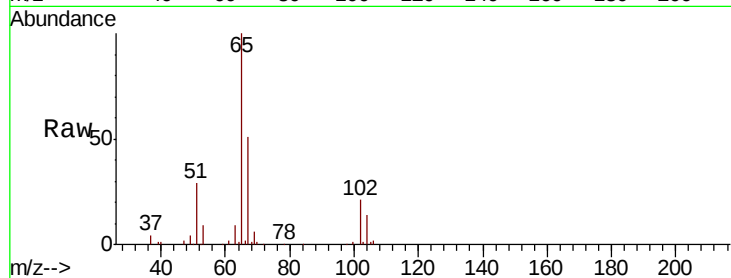
COMP-1

Tot Ion: 65 Resp: 166867

Ion Ratio Lower Upper

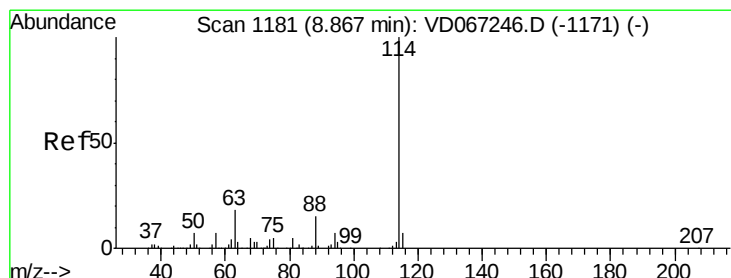
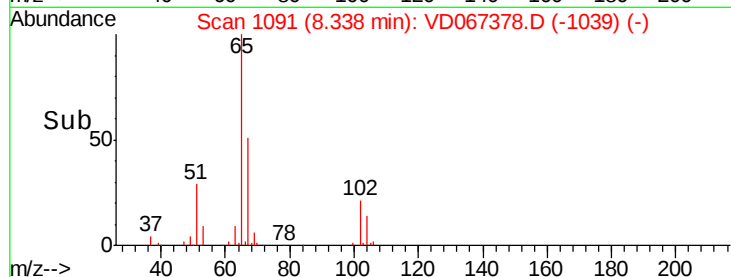
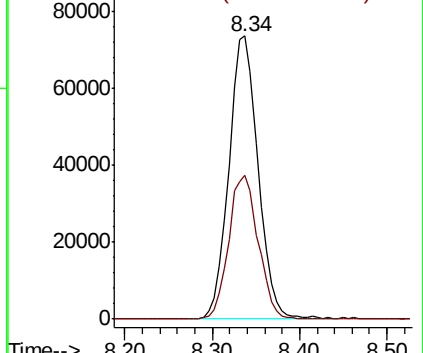
65 100

67 51.2 0.0 103.8



Abundance Ion 64.90 (64.60 to 65.60): VDC

Ion 66.90 (66.60 to 67.60): VDC



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.87 min Scan# 1182

Delta R.T. 0.01 min

Lab File: VD067378.D

Acq: 23 Oct 2020 13:26

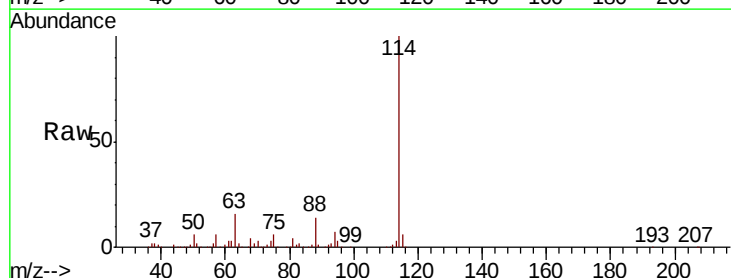
Tgt Ion: 114 Resp: 528604

Ion Ratio Lower Upper

114 100

63 16.4 0.0 35.0

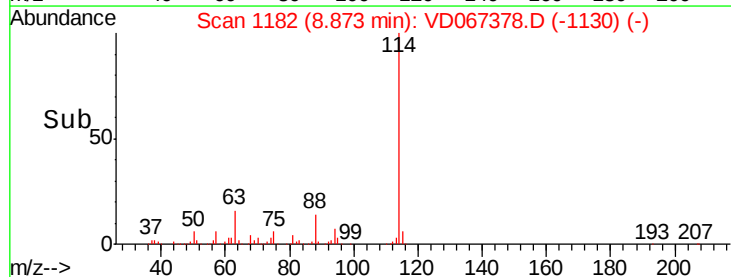
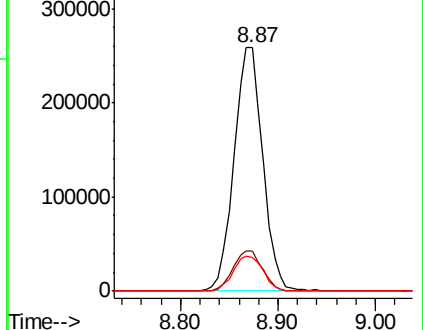
88 13.8 0.0 30.6

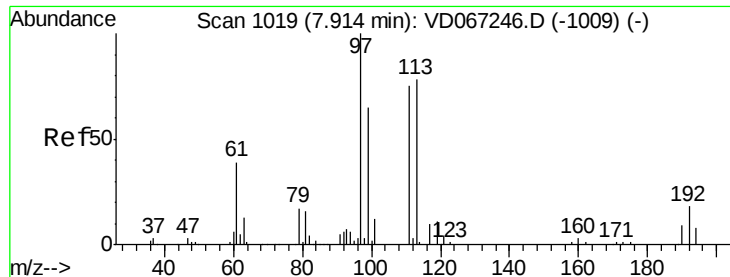


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VDC

Ion 87.90 (87.60 to 88.60): VDC

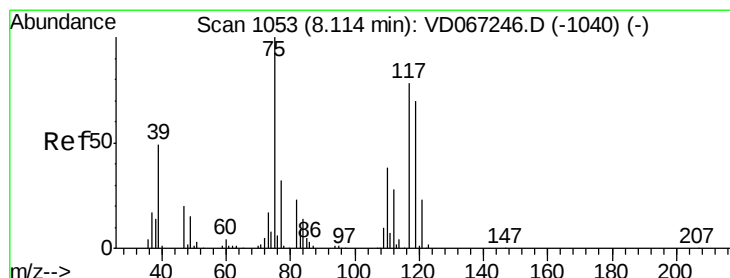
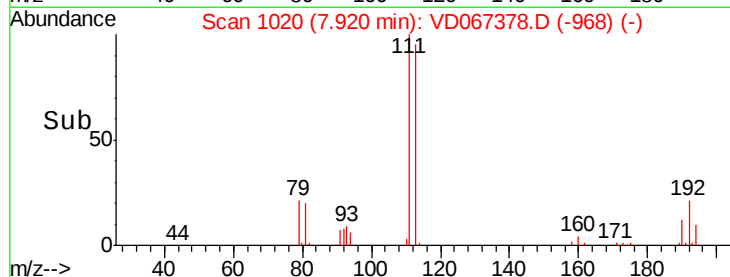
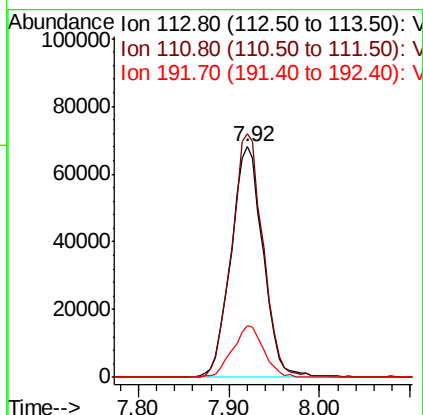
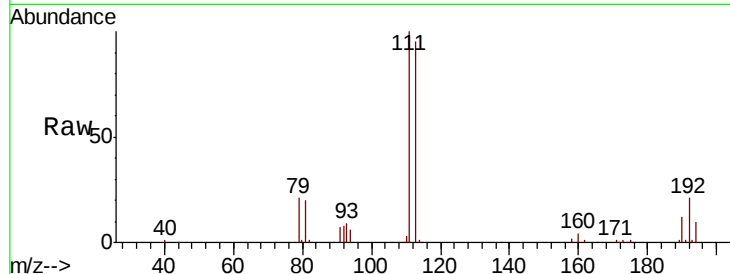




#35  
 Dibromofluoromethane  
 Concen: 47.409 ug/l  
 RT: 7.92 min Scan# 1020  
 Delta R.T. 0.01 min  
 Lab File: VD067378.D  
 Acq: 23 Oct 2020 13:26

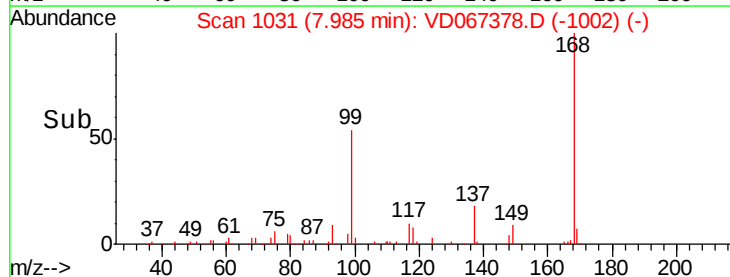
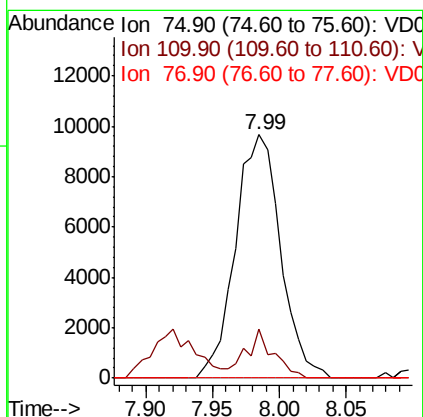
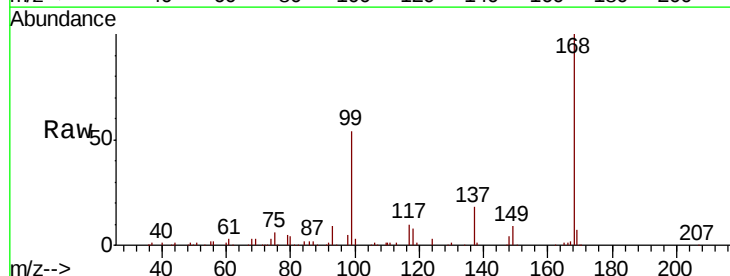
Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 COMP-1

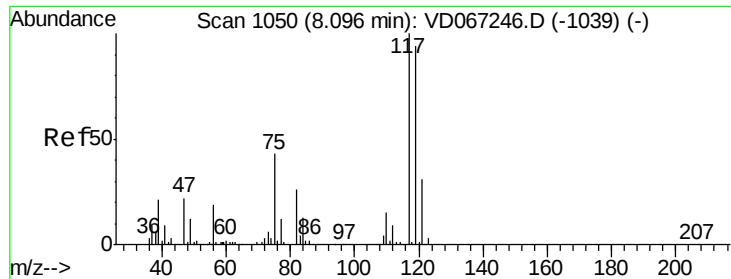
Tot Ion:113 Resp: 166778  
 Ion Ratio Lower Upper  
 113 100  
 111 104.4 81.6 122.4  
 192 21.4 17.0 25.4



#36  
 1,1-Dichloropropene  
 Concen: 5.057 ug/l  
 RT: 7.99 min Scan# 1031  
 Delta R.T. -0.13 min  
 Lab File: VD067378.D  
 Acq: 23 Oct 2020 13:26

Tgt Ion: 75 Resp: 22659  
 Ion Ratio Lower Upper  
 75 100  
 110 11.8 19.6 58.7#  
 77 0.0 24.6 37.0#





#38

Carbon Tetrachloride

Concen: 5.756 ug/l

RT: 7.99 min Scan# 1031

Delta R.T. -0.11 min

Lab File: VD067378.D

Acq: 23 Oct 2020 13:26

Instrument :

MSVOA\_D

ClientSampleId :

COMP-1

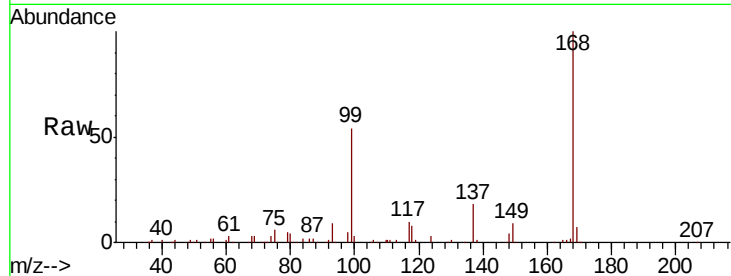
Tot Ion:117 Resp: 32959

Ion Ratio Lower Upper

117 100

119 6.9 75.0 112.4#

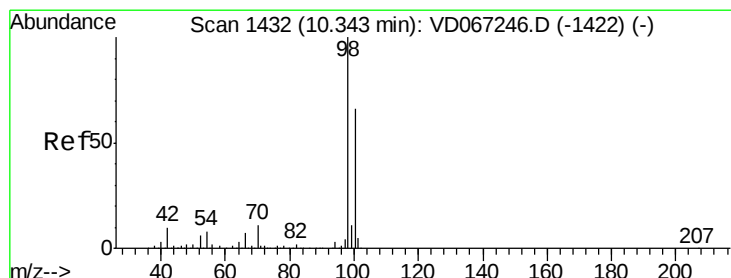
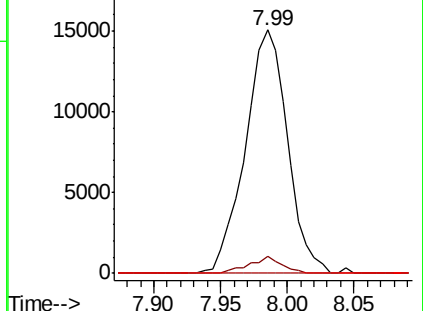
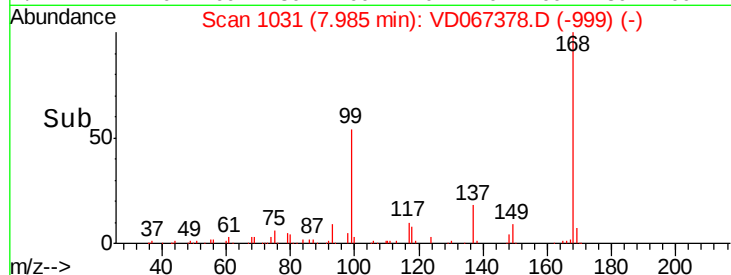
121 0.0 24.9 37.3#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#50

Toluene-d8

Concen: 48.722 ug/l

RT: 10.34 min Scan# 1432

Delta R.T. 0.00 min

Lab File: VD067378.D

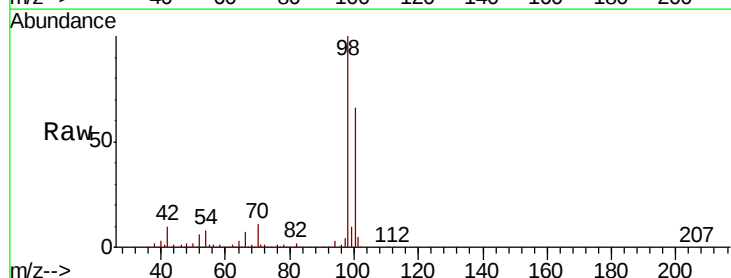
Acq: 23 Oct 2020 13:26

Tgt Ion: 98 Resp: 620272

Ion Ratio Lower Upper

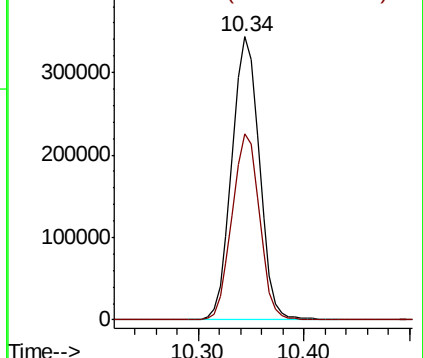
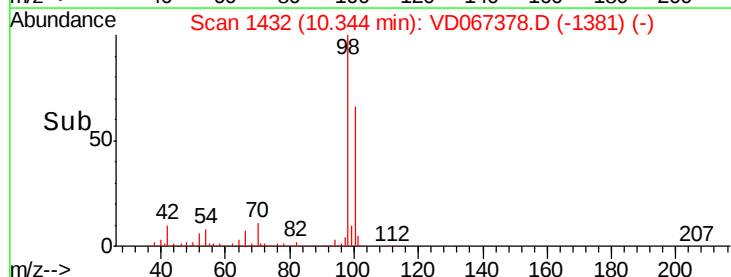
98 100

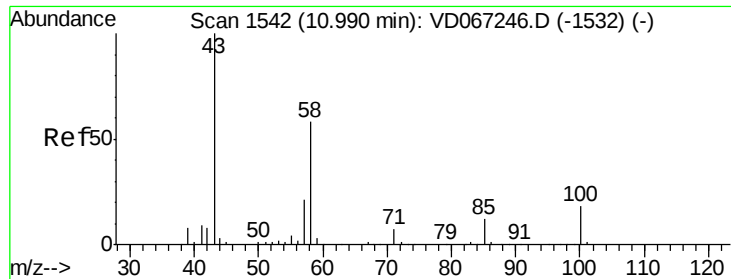
100 65.5 53.1 79.7



Abundance Ion 98.00 (97.70 to 98.70): V

Ion 100.00 (99.70 to 100.70): V





#59

2-Hexanone

Concen: 1.748 ug/l

RT: 10.96 min Scan# 1536

Delta R.T. -0.03 min

Lab File: VD067378.D

Acq: 23 Oct 2020 13:26

Instrument :

MSVOA\_D

ClientSampleId :

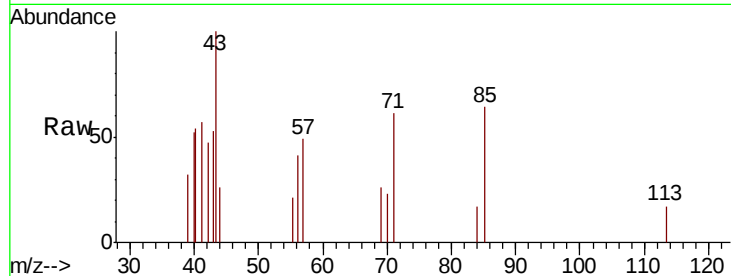
COMP-1

Tot Ion: 43 Resp: 1558

Ion Ratio Lower Upper

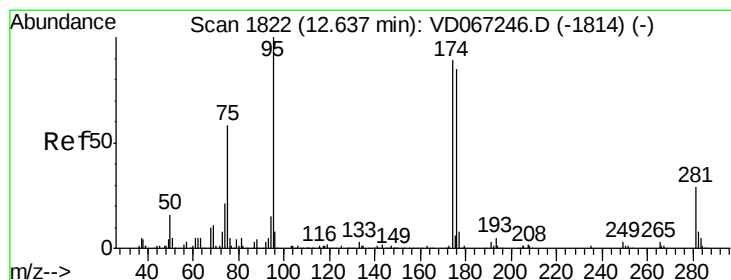
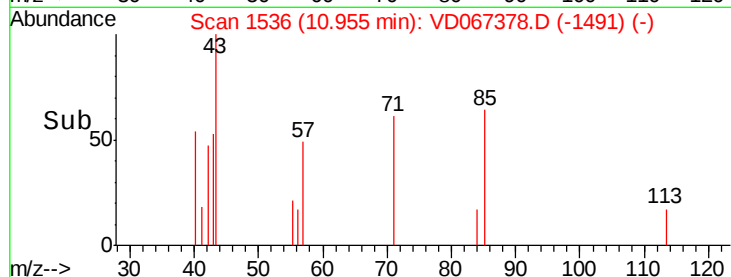
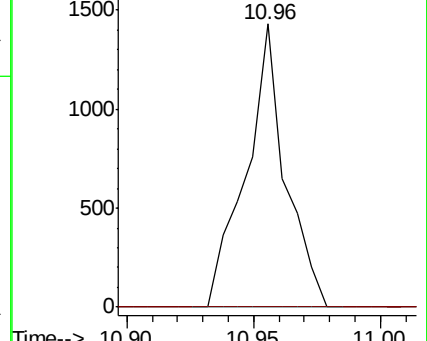
43 100

58 0.0 29.3 87.9#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC



#62

4-Bromofluorobenzene

Concen: 55.556 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.00 min

Lab File: VD067378.D

Acq: 23 Oct 2020 13:26

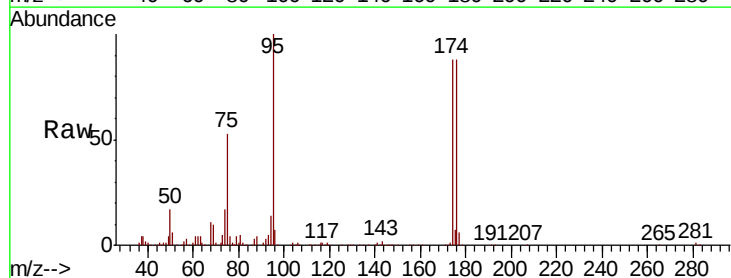
Tgt Ion: 95 Resp: 245935

Ion Ratio Lower Upper

95 100

174 85.8 0.0 175.2

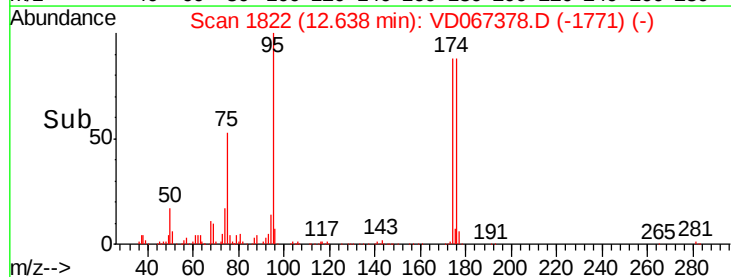
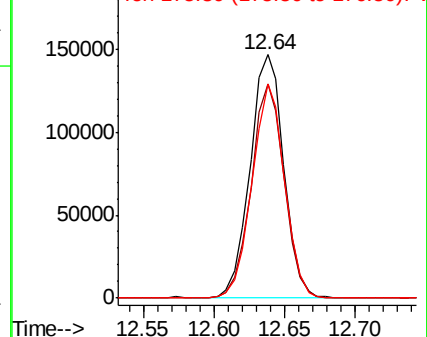
176 84.7 0.0 168.6

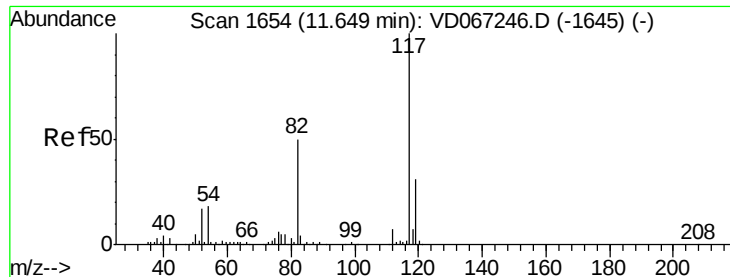


Abundance Ion 94.90 (94.60 to 95.60): VDC

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

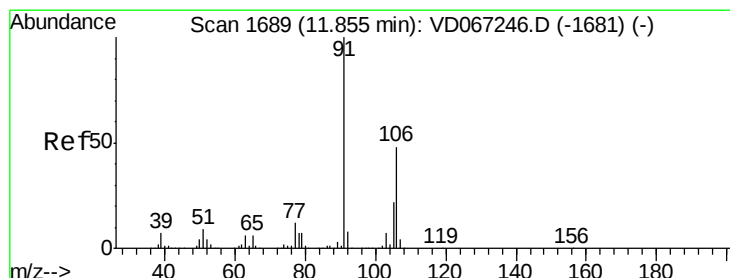
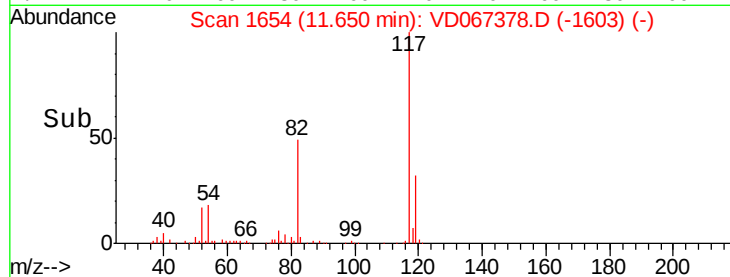
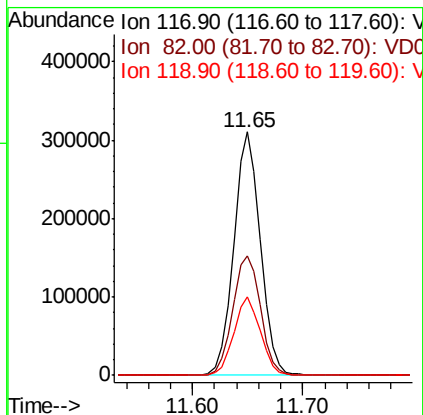
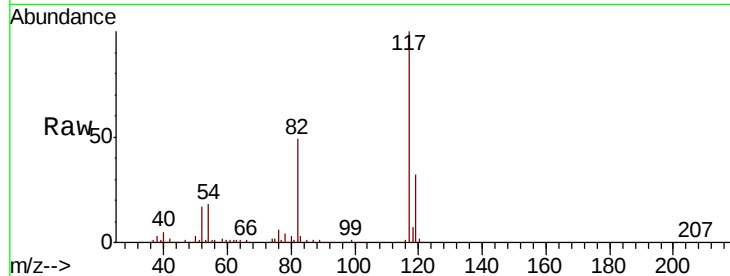




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.65 min Scan# 1654  
Delta R.T. 0.00 min  
Lab File: VD067378.D  
Acq: 23 Oct 2020 13:26

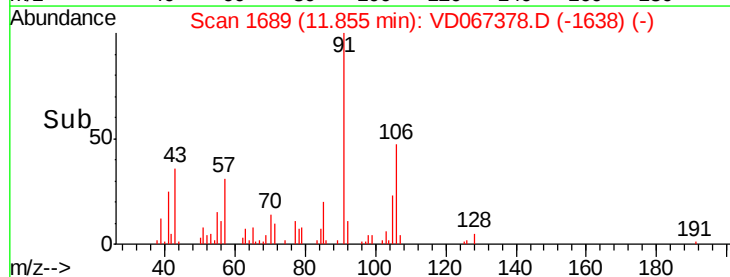
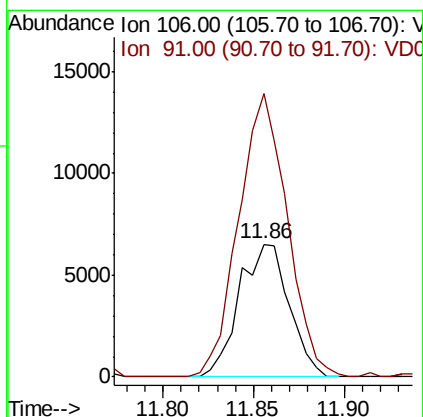
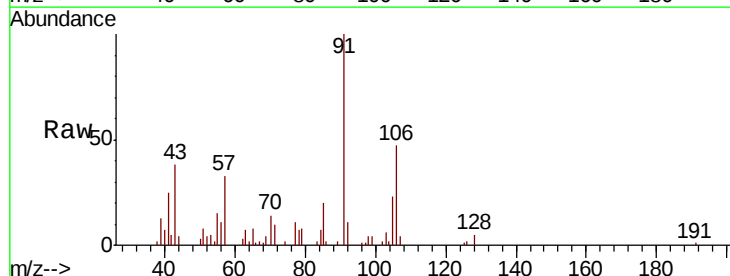
Instrument :  
MSVOA\_D  
ClientSampleId :  
COMP-1

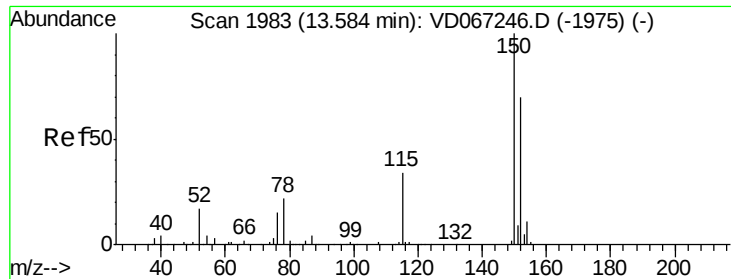
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 49.3  | 39.9  | 59.9  |
| 119     | 32.3  | 24.9  | 37.3  |



#68  
m/p-Xylenes  
Concen: 1.887 ug/l  
RT: 11.86 min Scan# 1689  
Delta R.T. 0.00 min  
Lab File: VD067378.D  
Acq: 23 Oct 2020 13:26

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 106     | 100   |       |       |
| 91      | 208.2 | 163.8 | 245.8 |





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.58 min Scan# 1982

Delta R.T. -0.01 min

Lab File: VD067378.D

Acq: 23 Oct 2020 13:26

Instrument :

MSVOA\_D

ClientSampleId :

COMP-1

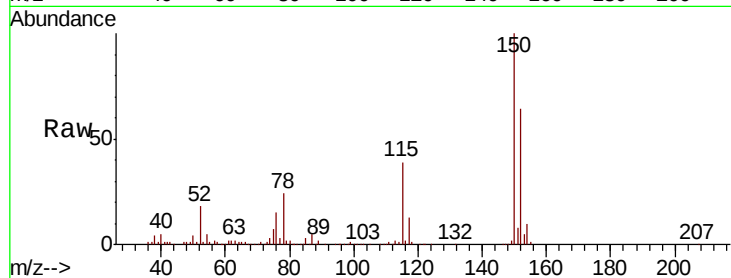
Tot Ion:152 Resp: 273061

Ion Ratio Lower Upper

152 100

115 59.5 29.3 87.9

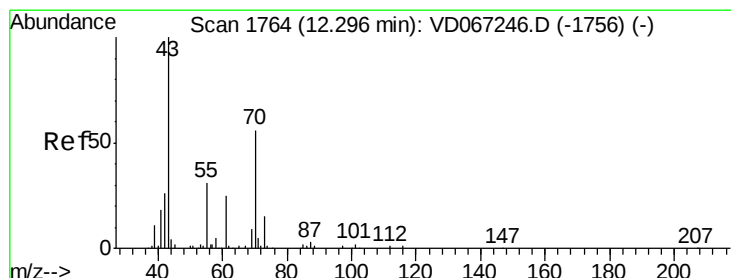
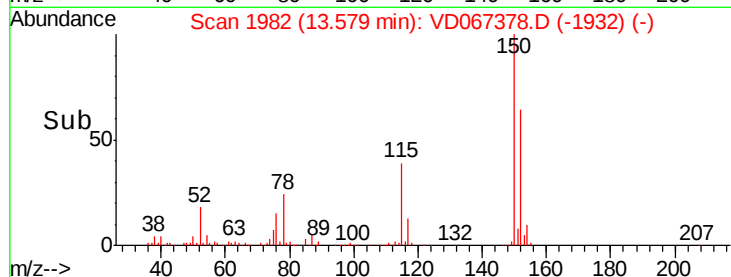
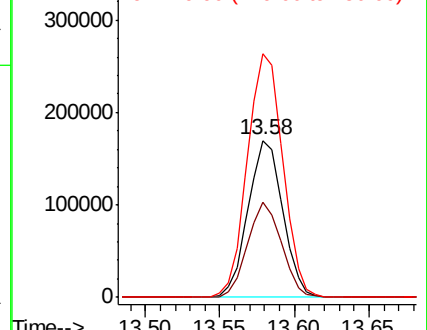
150 158.1 0.0 339.0



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



#74

N-aryl acetate

Concen: 1.464 ug/l

RT: 12.27 min Scan# 1760

Delta R.T. -0.02 min

Lab File: VD067378.D

Acq: 23 Oct 2020 13:26

Tgt Ion: 43 Resp: 3833

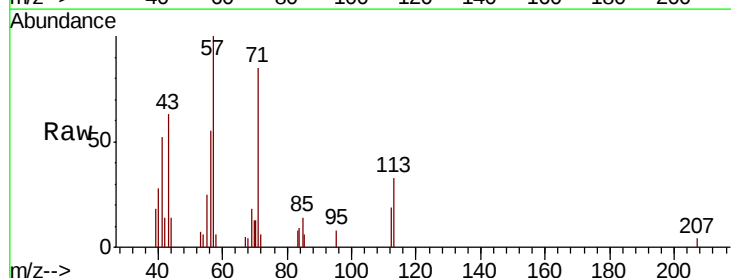
Ion Ratio Lower Upper

43 100

70 37.8 42.7 64.1#

55 24.4 24.0 36.0

61 0.0 22.2 33.4#

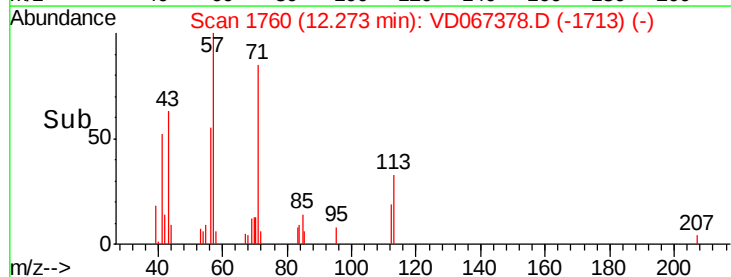
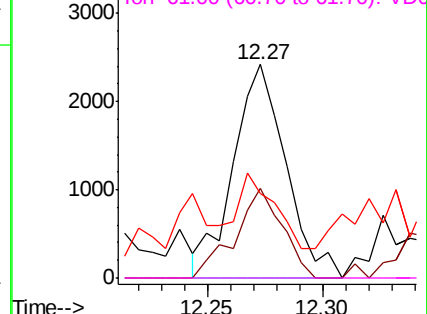


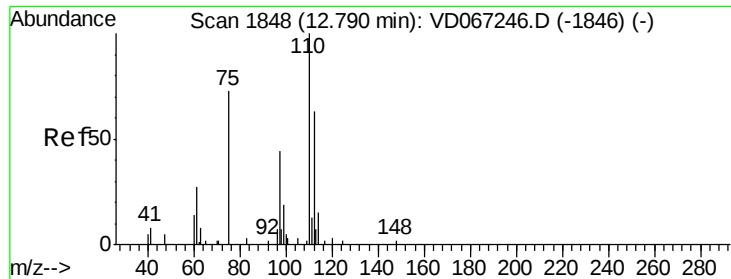
Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 70.00 (69.70 to 70.70): VDC

Ion 55.00 (54.70 to 55.70): VDC

Ion 61.00 (60.70 to 61.70): VDC

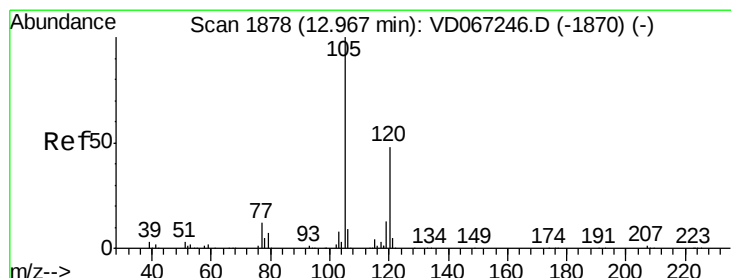
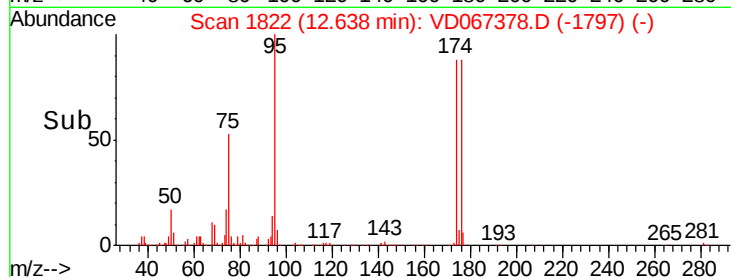
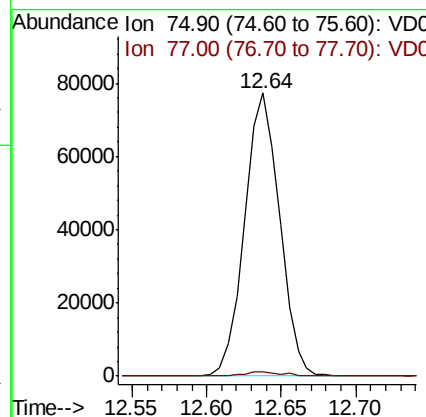
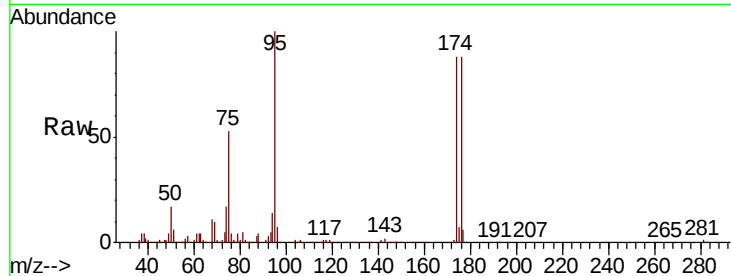




#76  
 1,2,3-Trichloropropane  
 Concen: 66.330 ug/l  
 RT: 12.64 min Scan# 1822  
 Delta R.T. -0.15 min  
 Lab File: VD067378.D  
 Acq: 23 Oct 2020 13:26

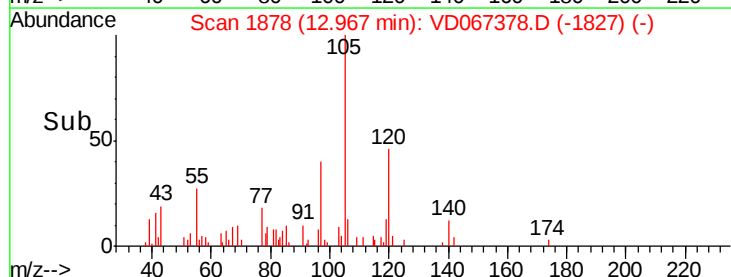
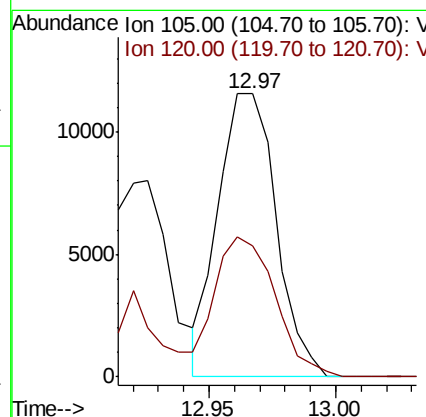
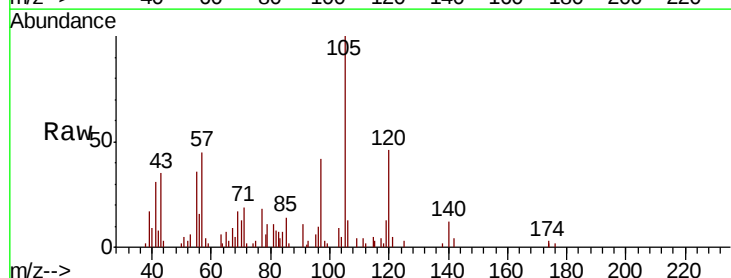
Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 COMP-1

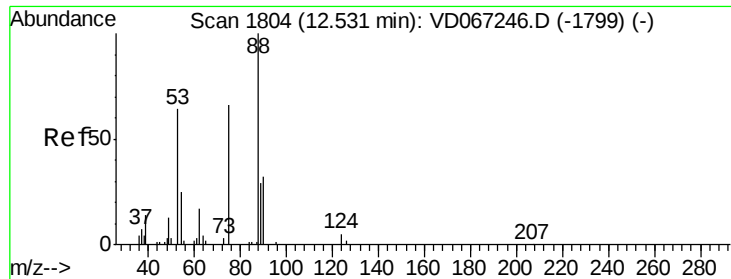
Tot Ion: 75 Resp: 125534  
 Ion Ratio Lower Upper  
 75 100  
 77 1.6 0.0 0.0#



#80  
 1,3,5-Trimethylbenzene  
 Concen: 1.221 ug/l  
 RT: 12.97 min Scan# 1878  
 Delta R.T. 0.00 min  
 Lab File: VD067378.D  
 Acq: 23 Oct 2020 13:26

Tgt Ion:105 Resp: 18385  
 Ion Ratio Lower Upper  
 105 100  
 120 53.2 24.3 72.8





#81

trans-1,4-Dichloro-2-butene

Concen: 150.416 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.11 min

Lab File: VD067378.D

Acq: 23 Oct 2020 13:26

Instrument :

MSVOA\_D

ClientSampleId :

COMP-1

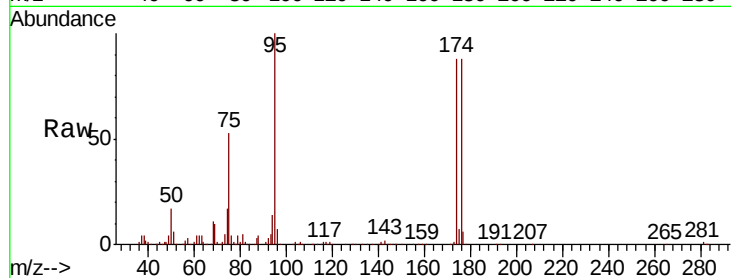
Tot Ion: 75 Resp: 125534

Ion Ratio Lower Upper

75 100

53 0.0 78.5 117.7#

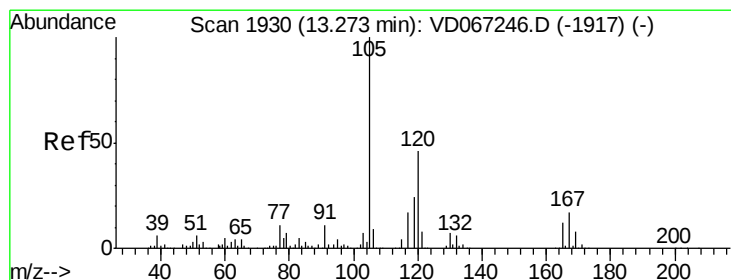
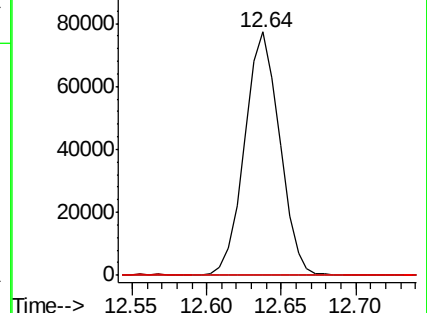
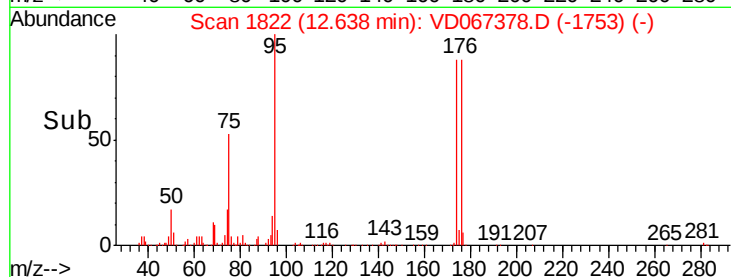
89 0.0 39.9 59.9#



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



#84

1,2,4-Trimethylbenzene

Concen: 2.633 ug/l

RT: 13.27 min Scan# 1930

Delta R.T. 0.00 min

Lab File: VD067378.D

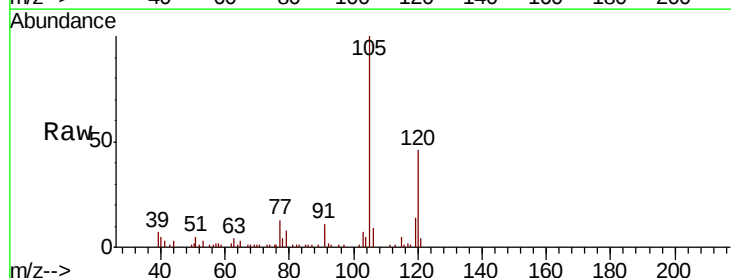
Acq: 23 Oct 2020 13:26

Tgt Ion:105 Resp: 39193

Ion Ratio Lower Upper

105 100

120 47.4 22.4 67.3



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

