

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD101520\  
 Data File : VD067284.D  
 Acq On : 15 Oct 2020 15:33  
 Operator : VA/SY  
 Sample : L4406-01  
 Misc : 7.12G/5.00ml/MSVOA D/SOIL  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 JC-02-101420-A

Quant Time: Oct 16 01:02:48 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D101320S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Oct 14 03:30:30 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.99  | 168  | 315965   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.87  | 114  | 535296   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.65 | 117  | 514163   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.58 | 152  | 240320   | 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   | 171402   | 54.15 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 108.30% |          |
| 35) Dibromofluoromethane    | 7.92  | 113  | 175002   | 49.12 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 98.24%  |          |
| 50) Toluene-d8              | 10.34 | 98   | 622104   | 48.25 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 96.50%  |          |
| 62) 4-Bromofluorobenzene    | 12.64 | 95   | 213530   | 47.63 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 95.26%  |          |

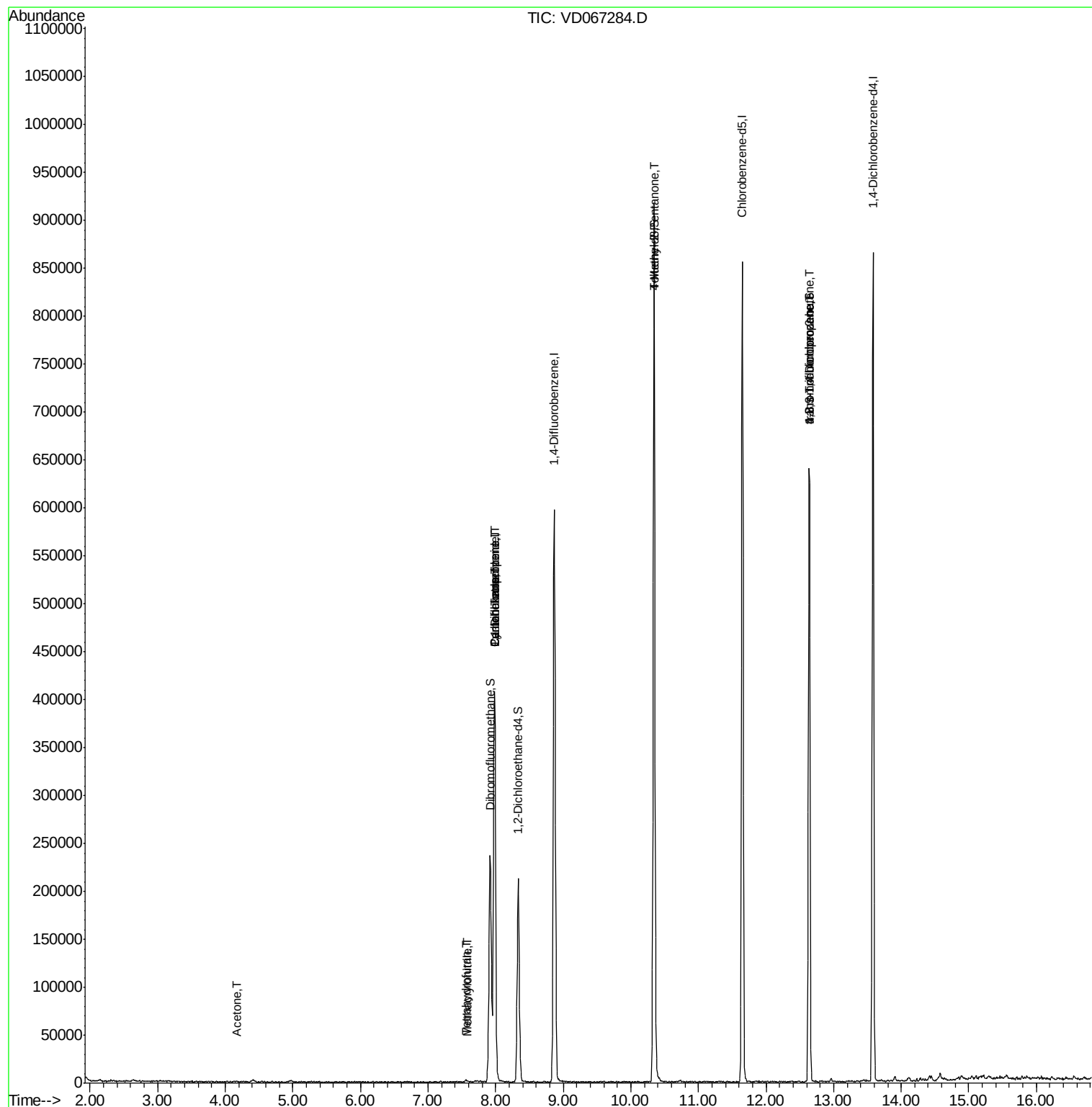
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 2) Dichlorodifluoromethane     | 2.00  | 85   | 241      | Below Cal | #      | 44     |
| 5) Bromomethane                | 2.77  | 94   | 134      | Below Cal | #      | 58     |
| 11) Tert butyl alcohol         | 5.22  | 59   | 84       | Below Cal | #      | 81     |
| 16) Acetone                    | 4.16  | 43   | 655      | 1.477     | ug/l # | 42     |
| 20) Methylene Chloride         | 4.96  | 84   | 739      | Below Cal |        | 93     |
| 29) Tetrahydrofuran            | 7.56  | 42   | 1460     | 5.197     | ug/l # | 62     |
| 31) Cyclohexane                | 7.99  | 56   | 5791     | 1.588     | ug/l # | 40     |
| 36) 1,1-Dichloropropene        | 7.99  | 75   | 22703    | 5.004     | ug/l # | 49     |
| 38) Carbon Tetrachloride       | 7.99  | 117  | 32032    | 5.524     | ug/l # | 17     |
| 41) Methacrylonitrile          | 7.59  | 41   | 727      | 1.008     | ug/l # | 21     |
| 51) 4-Methyl-2-Pentanone       | 10.34 | 43   | 2226     | 1.685     | ug/l # | 1      |
| 76) 1,2,3-Trichloropropane     | 12.64 | 75   | 108075   | 64.885    | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.64 | 75   | 108075   | 147.139   | ug/l # | 10     |

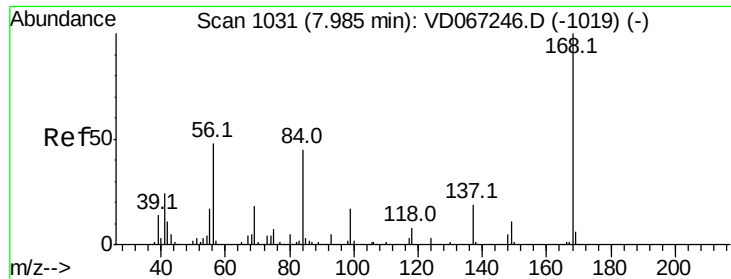
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD101520\  
Data File : VD067284.D  
Acq On : 15 Oct 2020 15:33  
Operator : VA/SY  
Sample : L4406-01  
Misc : 7.12G/5.00ml/MSVOA D/SOIL  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
JC-02-101420-A

Quant Time: Oct 16 01:02:48 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_D\METHOD\82D101320S.M  
Quant Title : SW846 8260  
QLast Update : Wed Oct 14 03:30:30 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: VD067284.D

Acq: 15 Oct 2020 15:33

Instrument :

MSVOA\_D

ClientSampleId :

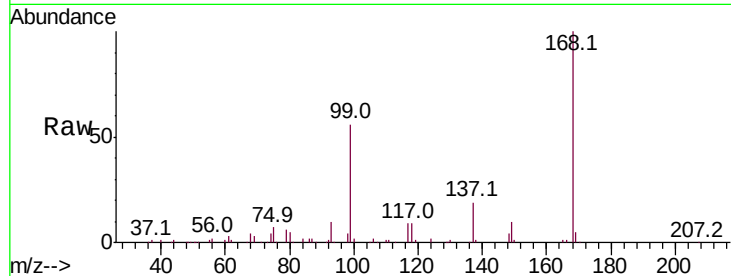
JC-02-101420-A

Tot Ion:168 Resp: 315965

Ion Ratio Lower Upper

168 100

99 56.0 45.9 68.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC

7.99

150000

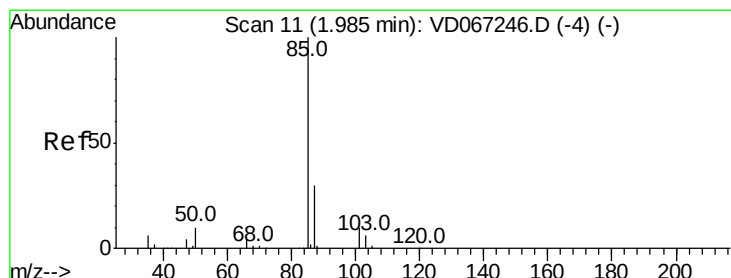
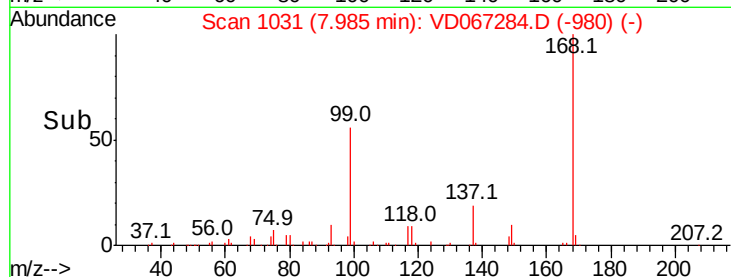
100000

50000

0

Time-->

7.90 8.00 8.10



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 2.00 min Scan# 13

Delta R.T. 0.01 min

Lab File: VD067284.D

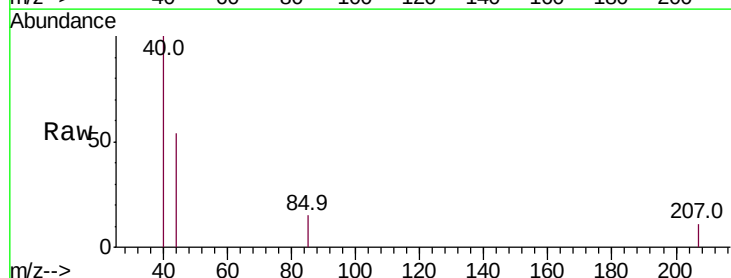
Acq: 15 Oct 2020 15:33

Tgt Ion: 85 Resp: 241

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

2.00

300

250

200

150

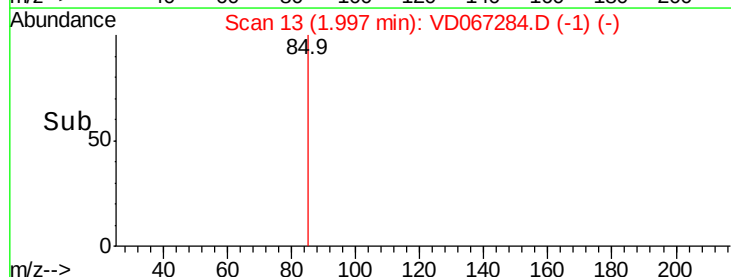
100

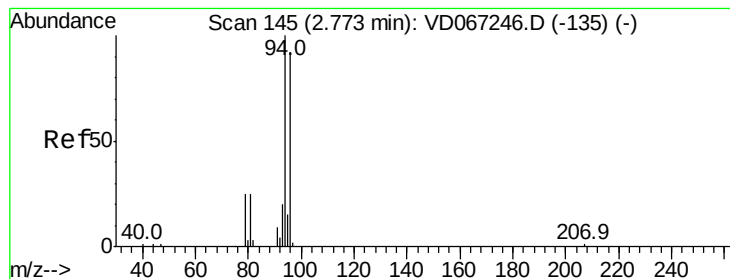
50

0

Time-->

1.96 1.98 2.00 2.02





#5

Bromomethane

Concen: Below Cal

RT: 2.77 min Scan# 144

Delta R.T. -0.01 min

Lab File: VD067284.D

Acq: 15 Oct 2020 15:33

Instrument :

MSVOA\_D

ClientSampleId :

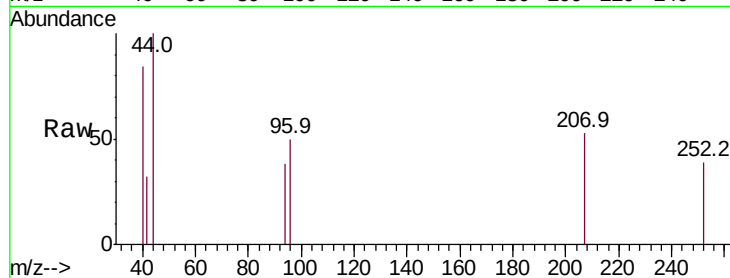
JC-02-101420-A

Tot Ion: 94 Resp: 134

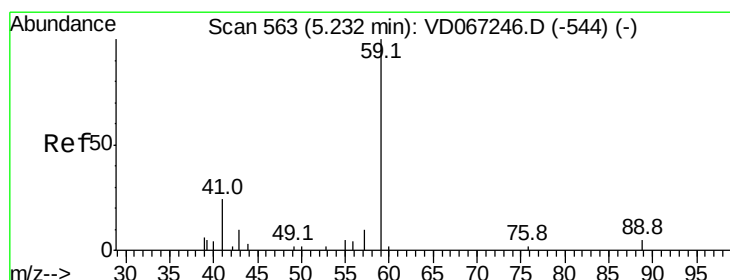
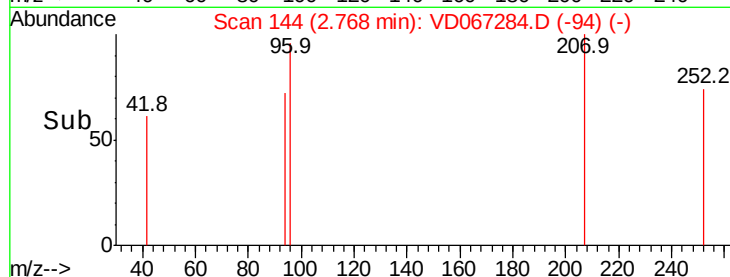
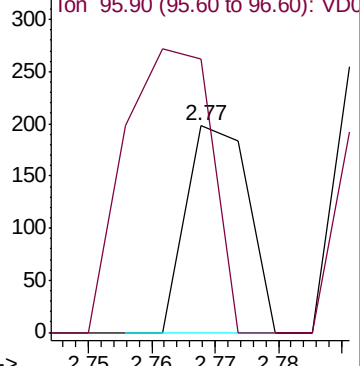
Ion Ratio Lower Upper

94 100

96 132.3 73.8 110.6#



Abundance Ion 93.90 (93.60 to 94.60): VDC



#11

Tert butyl alcohol

Concen: Below Cal

RT: 5.22 min Scan# 561

Delta R.T. -0.01 min

Lab File: VD067284.D

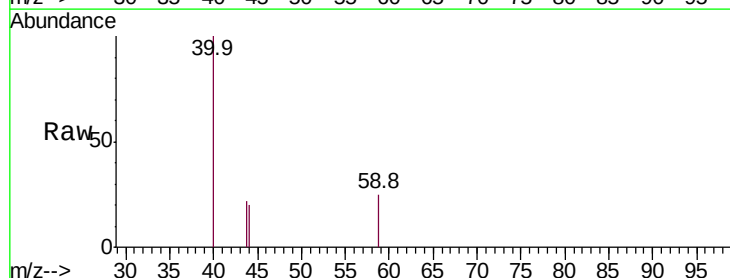
Acq: 15 Oct 2020 15:33

Tgt Ion: 59 Resp: 84

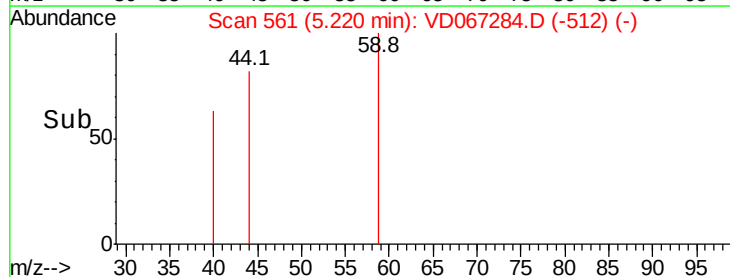
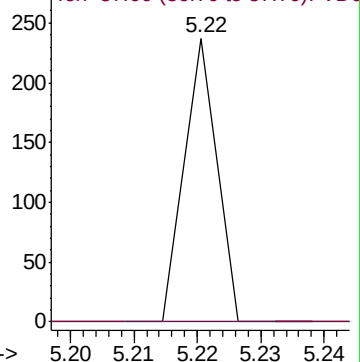
Ion Ratio Lower Upper

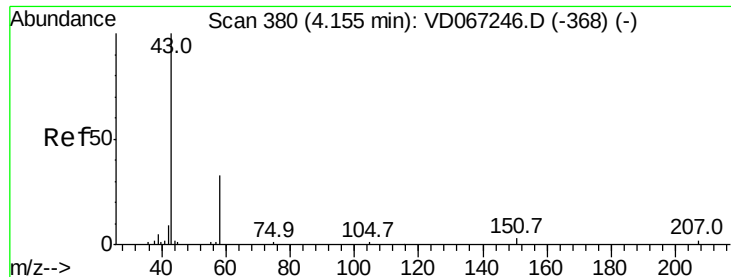
59 100

57 0.0 5.1 7.7#



Abundance Ion 59.00 (58.70 to 59.70): VDC





#16

Acetone

Concen: 1.477 ug/l

RT: 4.16 min Scan# 381

Delta R.T. 0.01 min

Lab File: VD067284.D

Acq: 15 Oct 2020 15:33

Instrument :

MSVOA\_D

ClientSampleId :

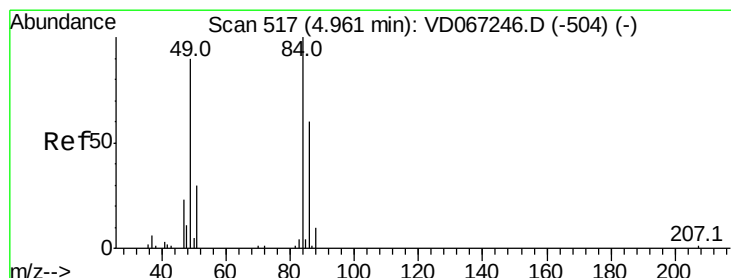
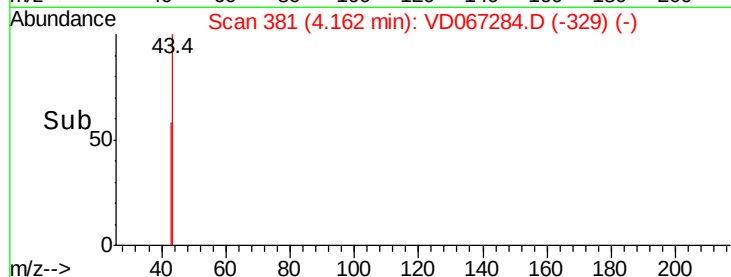
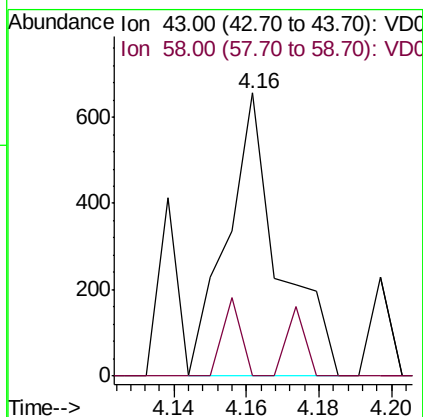
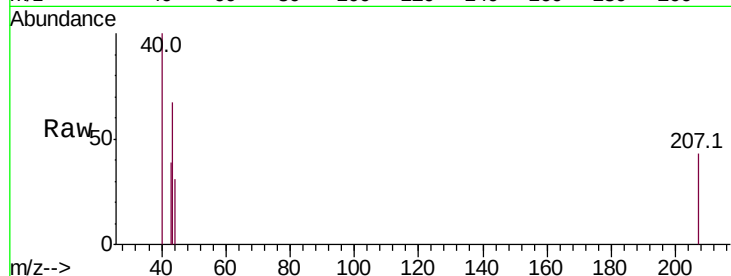
JC-02-101420-A

Tot Ion: 43 Resp: 655

Ion Ratio Lower Upper

43 100

58 0.0 26.1 39.1#



#20

Methylene Chloride

Concen: Below Cal

RT: 4.96 min Scan# 516

Delta R.T. -0.01 min

Lab File: VD067284.D

Acq: 15 Oct 2020 15:33

Tgt Ion: 84 Resp: 739

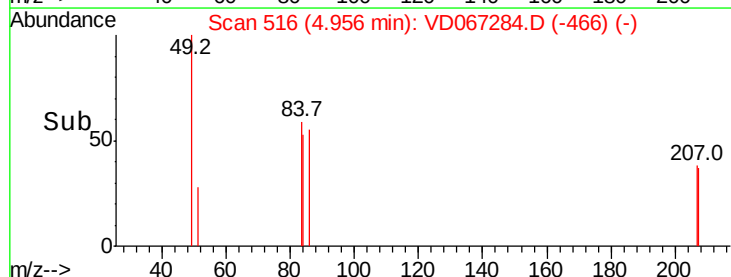
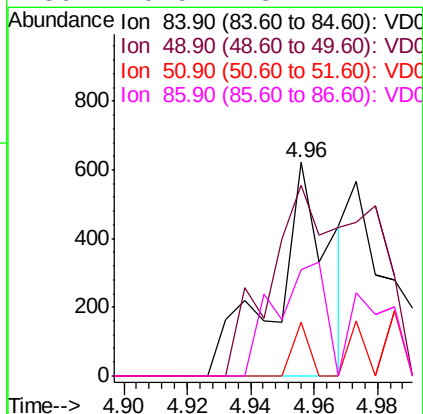
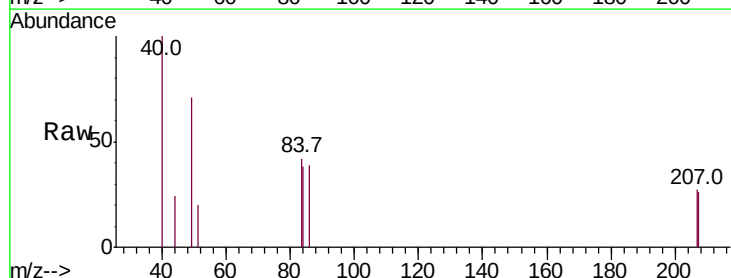
Ion Ratio Lower Upper

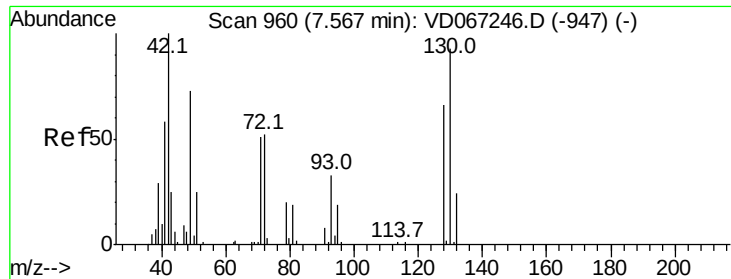
84 100

49 89.4 72.2 108.2

51 25.2 23.8 35.8

86 49.5 48.2 72.4

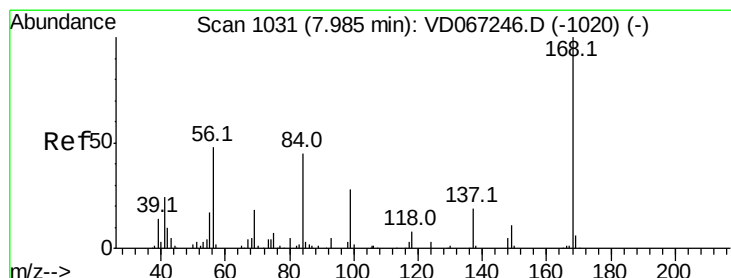
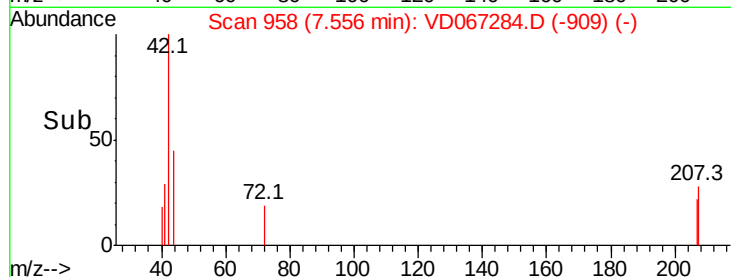
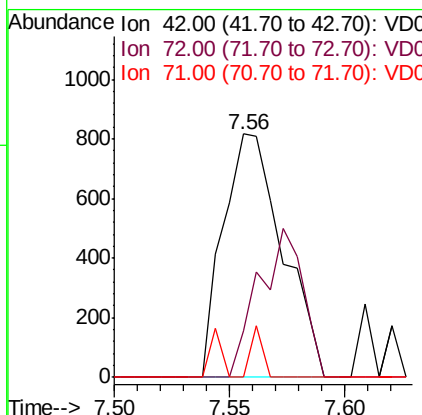
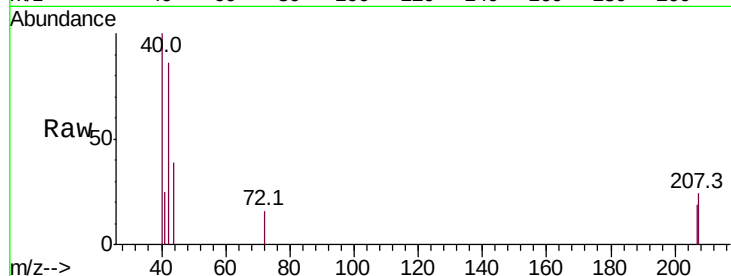




#29  
Tetrahydrofuran  
Concen: 5.197 ug/l  
RT: 7.56 min Scan# 958  
Delta R.T. -0.01 min  
Lab File: VD067284.D  
Acq: 15 Oct 2020 15:33

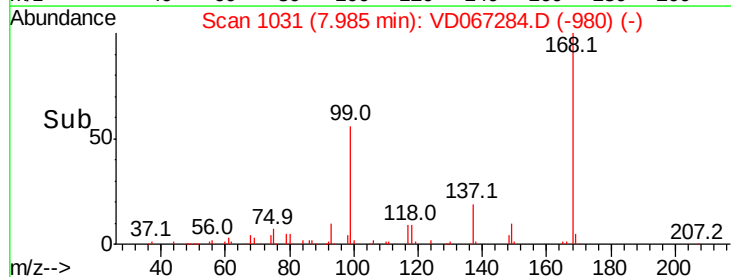
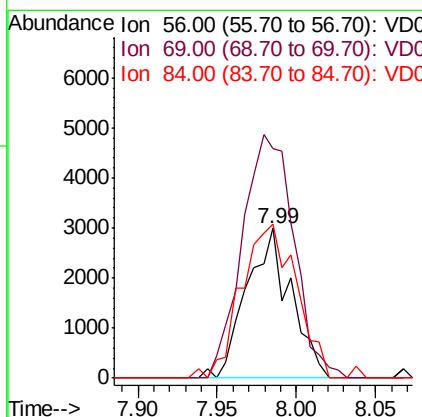
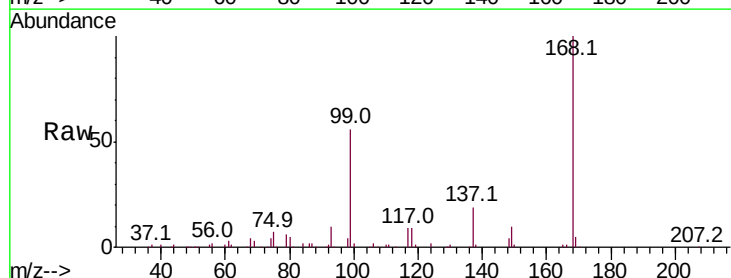
Instrument :  
MSVOA\_D  
ClientSampleId :  
JC-02-101420-A

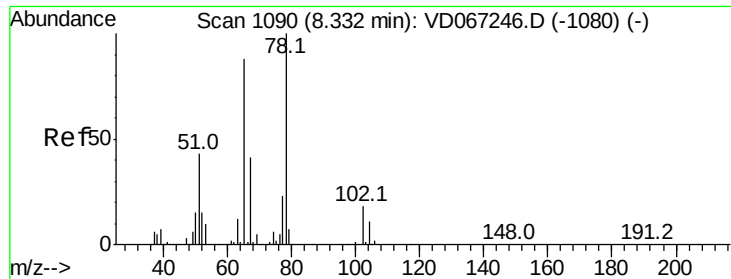
Tot Ion: 42 Resp: 1460  
Ion Ratio Lower Upper  
42 100  
72 45.5 43.2 64.8  
71 4.1 39.4 59.0#



#31  
Cyclohexane  
Concen: 1.588 ug/l  
RT: 7.99 min Scan# 1031  
Delta R.T. 0.00 min  
Lab File: VD067284.D  
Acq: 15 Oct 2020 15:33

Tgt Ion: 56 Resp: 5791  
Ion Ratio Lower Upper  
56 100  
69 153.5 29.8 44.6#  
84 103.1 76.6 114.8

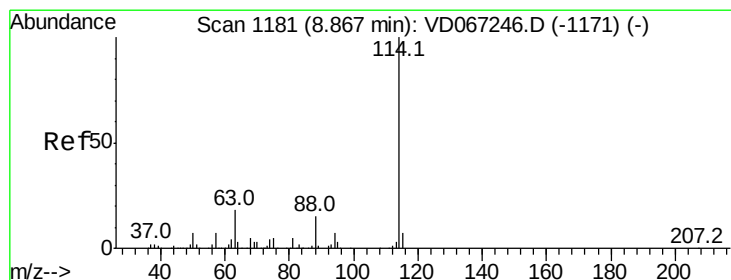
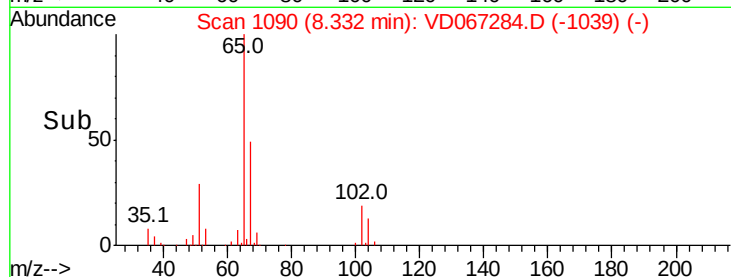
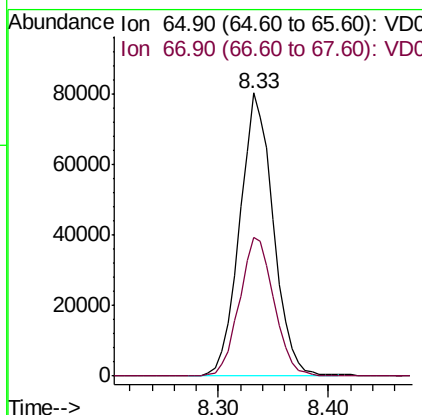
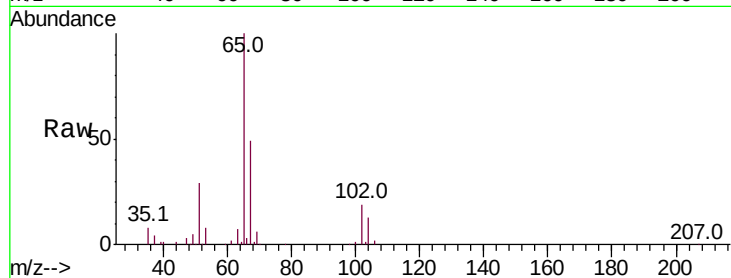




#33  
 1,2-Dichloroethane-d4  
 Concen: 54.147 ug/l  
 RT: 8.33 min Scan# 1090  
 Delta R.T. 0.00 min  
 Lab File: VD067284.D  
 Acq: 15 Oct 2020 15:33

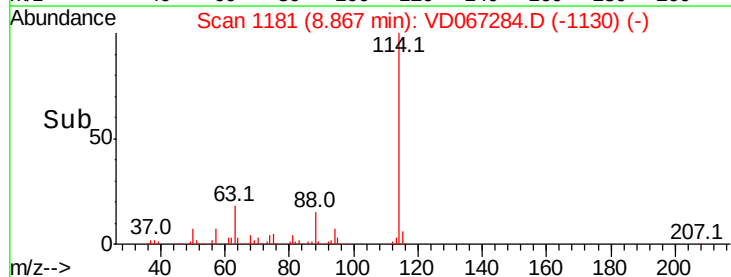
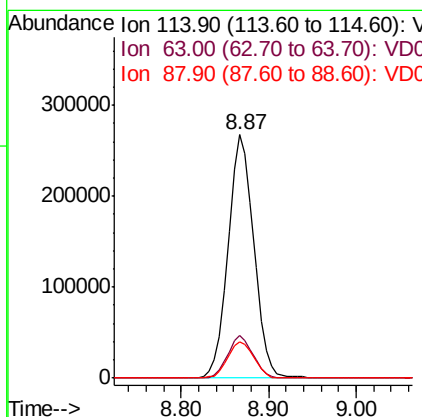
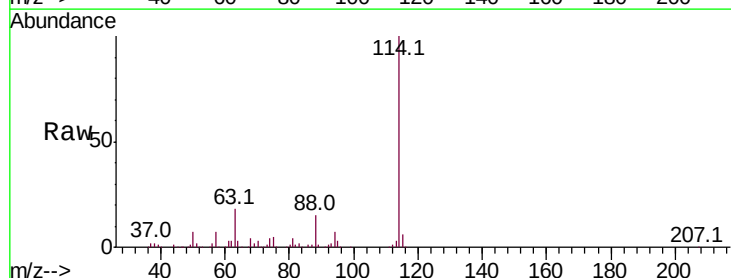
Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 JC-02-101420-A

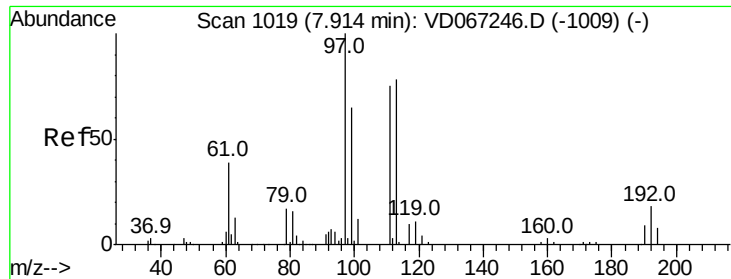
Tot Ion: 65 Resp: 171402  
 Ion Ratio Lower Upper  
 65 100  
 67 50.5 0.0 103.8



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.87 min Scan# 1181  
 Delta R.T. 0.00 min  
 Lab File: VD067284.D  
 Acq: 15 Oct 2020 15:33

Tgt Ion: 114 Resp: 535296  
 Ion Ratio Lower Upper  
 114 100  
 63 17.8 0.0 35.0  
 88 15.1 0.0 30.6

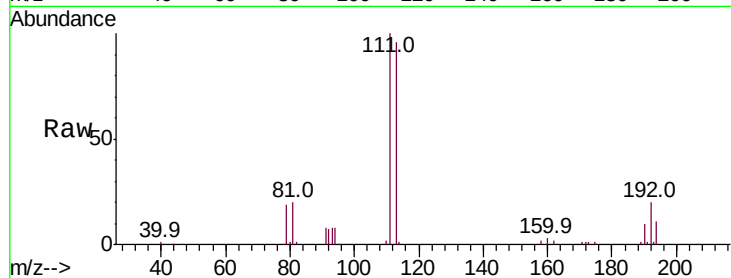




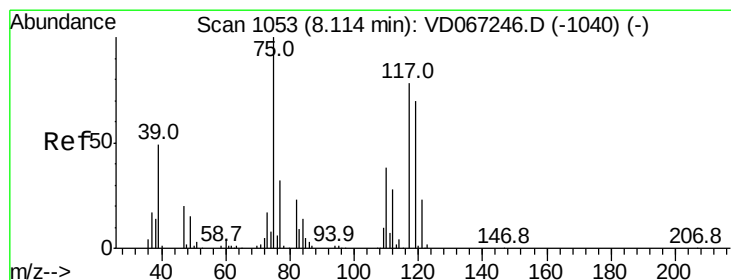
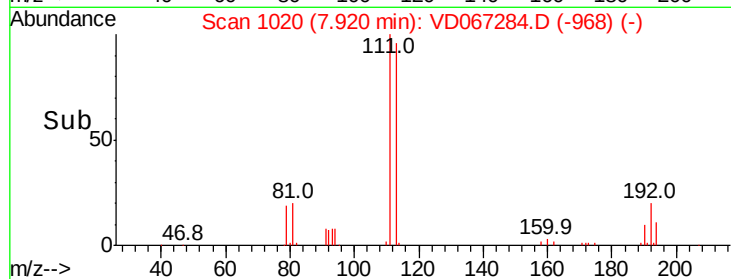
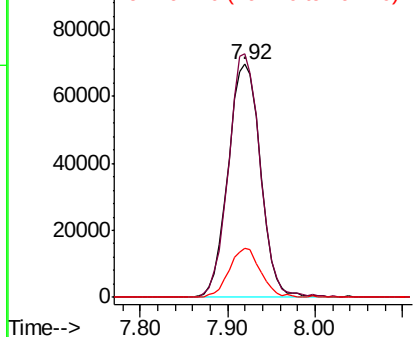
#35  
 Dibromofluoromethane  
 Concen: 49.125 ug/l  
 RT: 7.92 min Scan# 1020  
 Delta R.T. 0.01 min  
 Lab File: VD067284.D  
 Acq: 15 Oct 2020 15:33

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 JC-02-101420-A

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 101.7 | 81.6  | 122.4 |
| 192     | 20.4  | 17.0  | 25.4  |

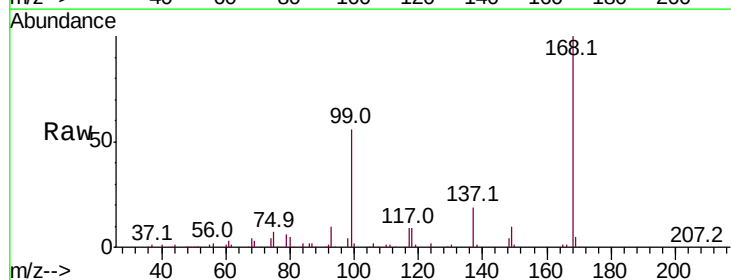


Abundance Ion 112.80 (112.50 to 113.50): V  
 Ion 110.80 (110.50 to 111.50): V  
 Ion 191.70 (191.40 to 192.40): V

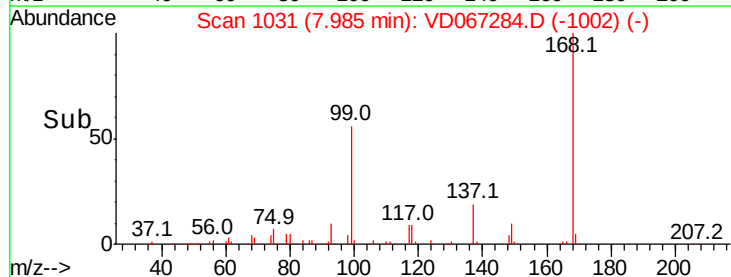
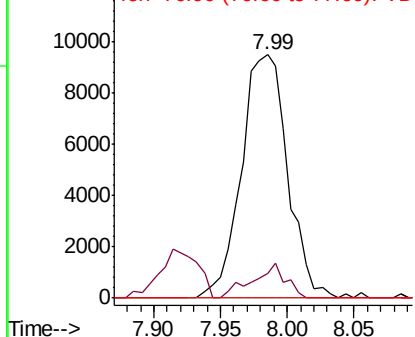


#36  
 1,1-Dichloropropene  
 Concen: 5.004 ug/l  
 RT: 7.99 min Scan# 1031  
 Delta R.T. -0.13 min  
 Lab File: VD067284.D  
 Acq: 15 Oct 2020 15:33

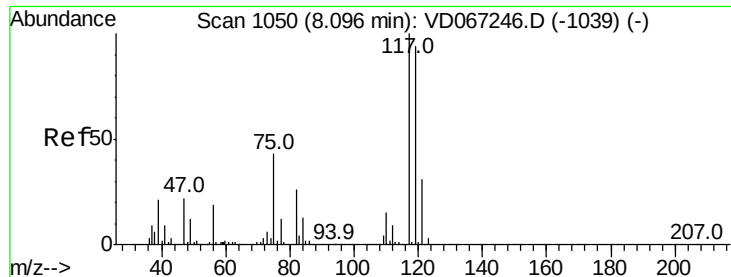
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 10.2  | 19.6  | 58.7# |
| 77      | 0.0   | 24.6  | 37.0# |



Abundance Ion 74.90 (74.60 to 75.60): VDC  
 Ion 109.90 (109.60 to 110.60): V  
 Ion 76.90 (76.60 to 77.60): VDC







#38

Carbon Tetrachloride

Concen: 5.524 ug/l

RT: 7.99 min Scan# 1032

Delta R.T. -0.11 min

Lab File: VD067284.D

Acq: 15 Oct 2020 15:33

Instrument :

MSVOA\_D

ClientSampleId :

JC-02-101420-A

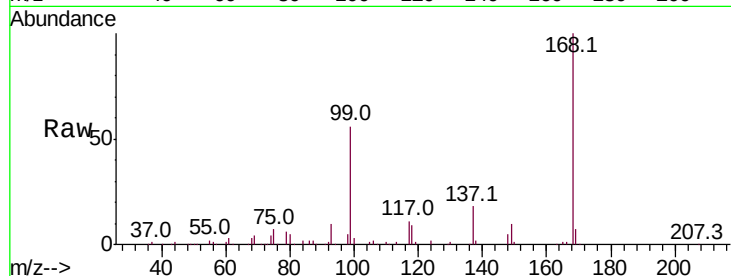
Tot Ion:117 Resp: 32032

Ion Ratio Lower Upper

117 100

119 5.1 75.0 112.4#

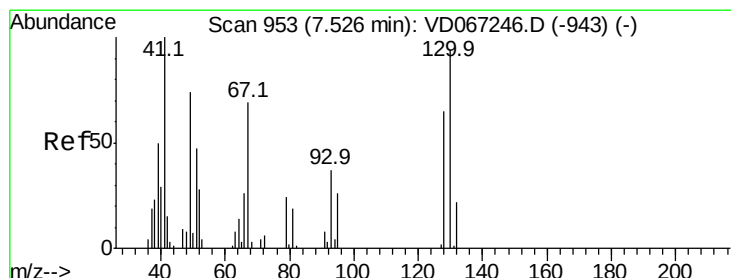
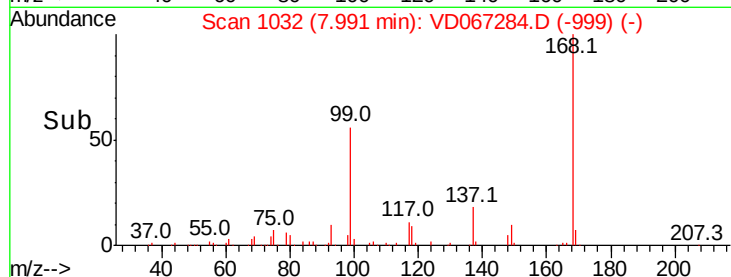
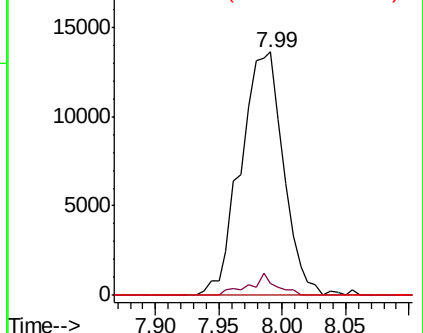
121 0.0 24.9 37.3#



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



#41

Methacrylonitrile

Concen: 1.008 ug/l

RT: 7.59 min Scan# 963

Delta R.T. 0.06 min

Lab File: VD067284.D

Acq: 15 Oct 2020 15:33

Tgt Ion: 41 Resp: 727

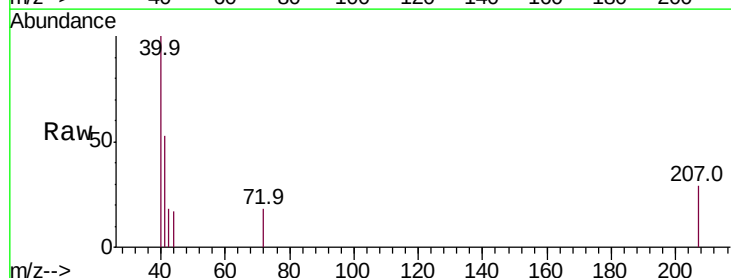
Ion Ratio Lower Upper

41 100

39 36.2 60.0 90.0#

67 0.0 88.9 133.3#

52 0.0 36.9 55.3#

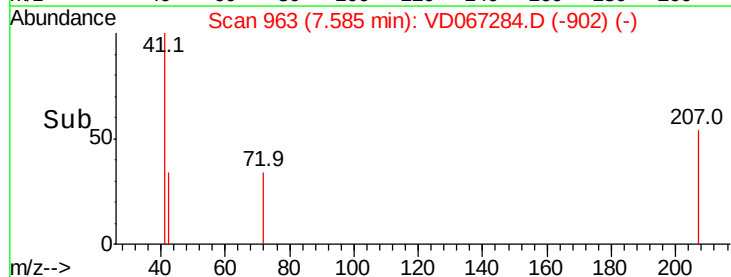
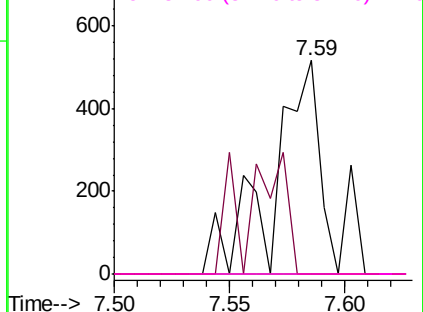


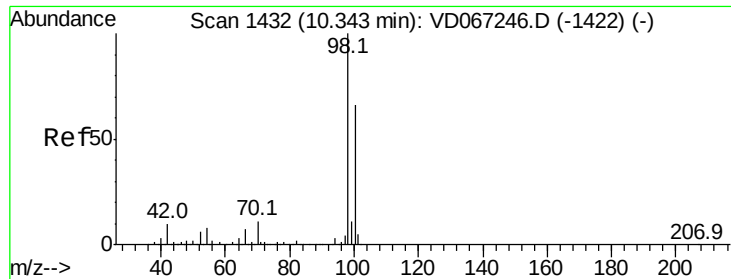
Abundance Ion 41.00 (40.70 to 41.70): VDC

Ion 39.00 (38.70 to 39.70): VDC

Ion 67.00 (66.70 to 67.70): VDC

Ion 52.00 (51.70 to 52.70): VDC

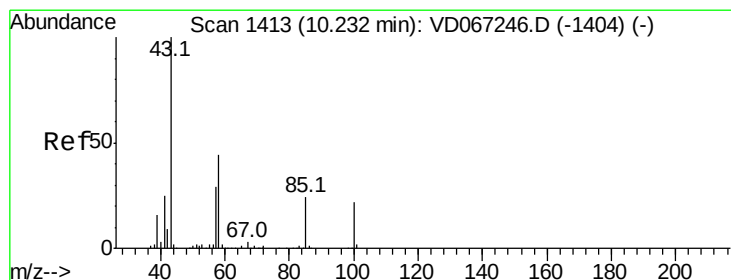
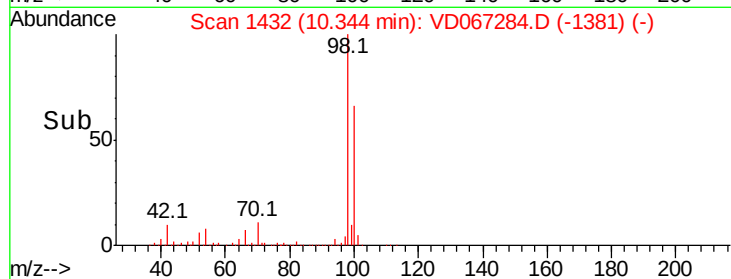
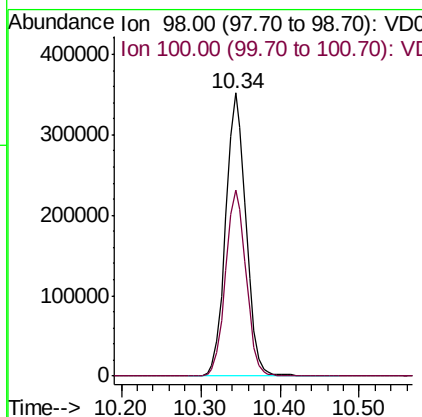
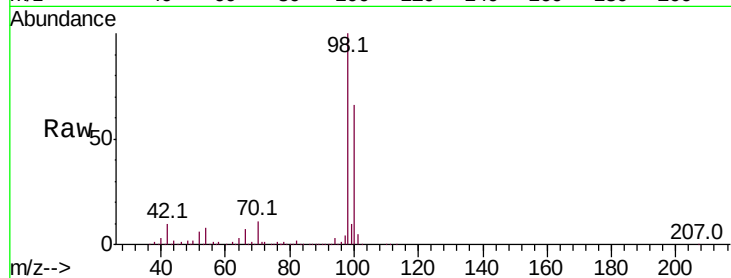




#50  
Toluene-d8  
Concen: 48.255 ug/l  
RT: 10.34 min Scan# 1432  
Delta R.T. 0.00 min  
Lab File: VD067284.D  
Acq: 15 Oct 2020 15:33

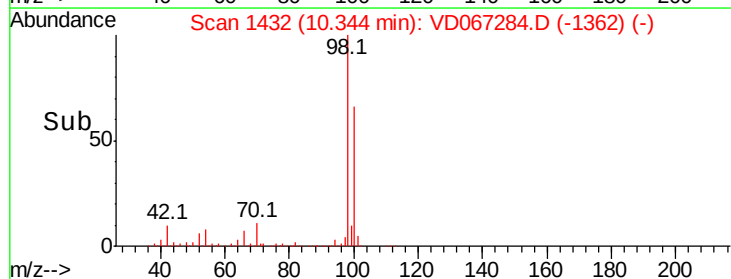
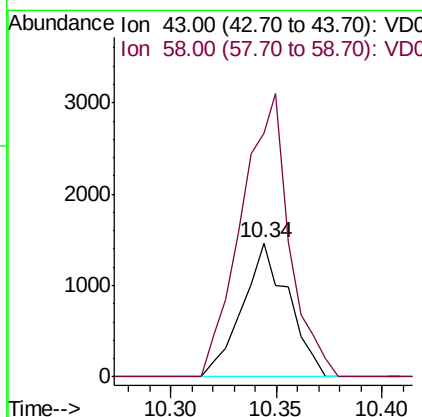
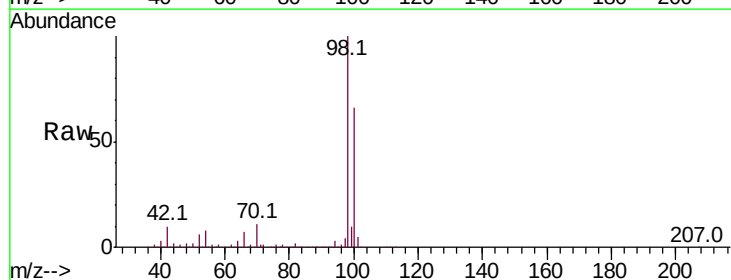
Instrument :  
MSVOA\_D  
ClientSampleId :  
JC-02-101420-A

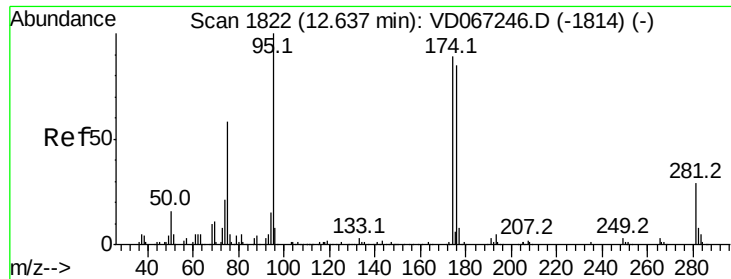
Tot Ion: 98 Resp: 622104  
Ion Ratio Lower Upper  
98 100  
100 66.4 53.1 79.7



#51  
4-Methyl-2-Pentanone  
Concen: 1.685 ug/l  
RT: 10.34 min Scan# 1432  
Delta R.T. 0.11 min  
Lab File: VD067284.D  
Acq: 15 Oct 2020 15:33

Tgt Ion: 43 Resp: 2226  
Ion Ratio Lower Upper  
43 100  
58 220.5 35.7 53.5#

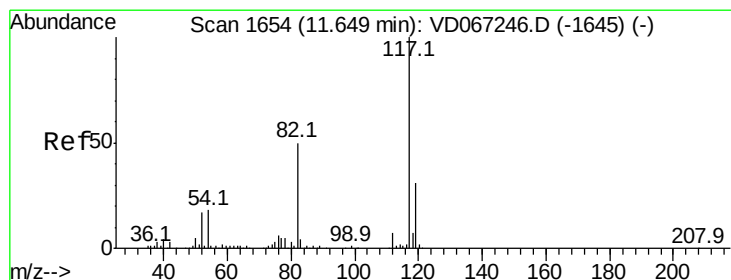
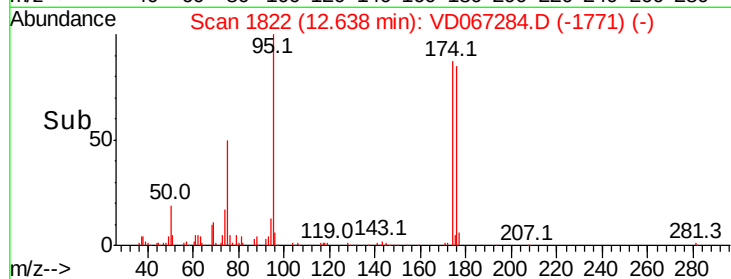
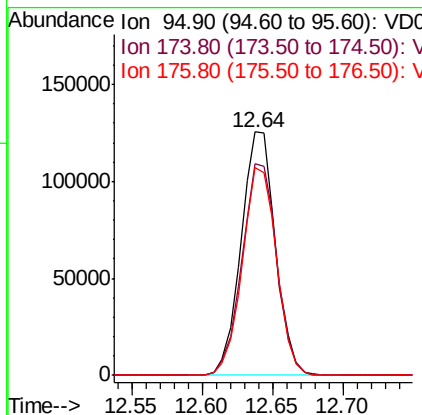
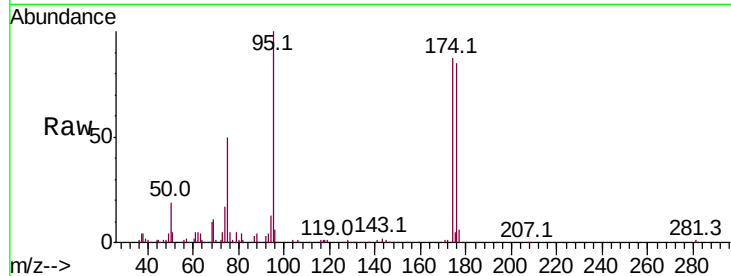




#62  
4-Bromofluorobenzene  
Concen: 47.633 ug/l  
RT: 12.64 min Scan# 1822  
Delta R.T. 0.00 min  
Lab File: VD067284.D  
Acq: 15 Oct 2020 15:33

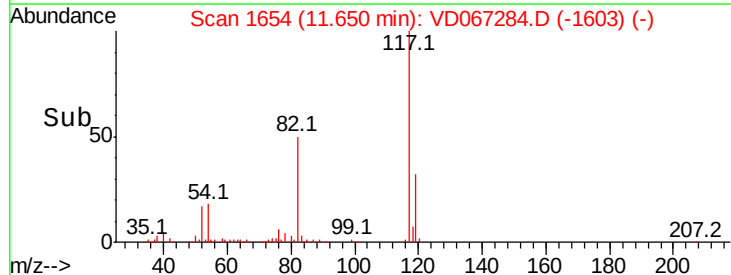
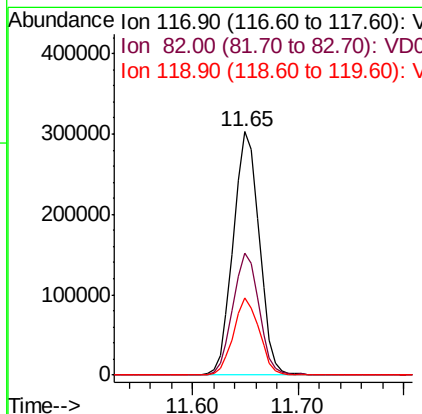
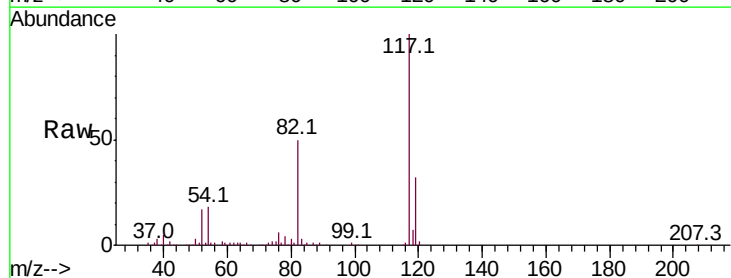
Instrument :  
MSVOA\_D  
ClientSampleId :  
JC-02-101420-A

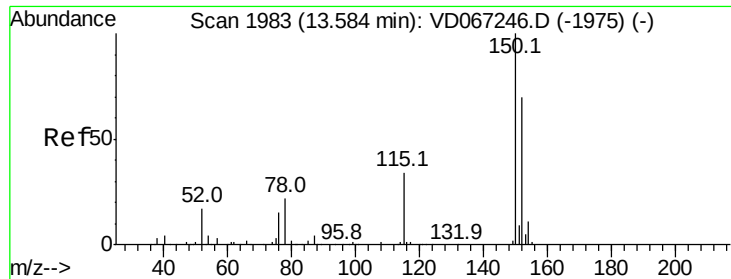
Tot Ion: 95 Resp: 213530  
Ion Ratio Lower Upper  
95 100  
174 87.9 0.0 175.2  
176 85.1 0.0 168.6



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.65 min Scan# 1654  
Delta R.T. 0.00 min  
Lab File: VD067284.D  
Acq: 15 Oct 2020 15:33

Tgt Ion: 117 Resp: 514163  
Ion Ratio Lower Upper  
117 100  
82 50.1 39.9 59.9  
119 31.8 24.9 37.3





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.58 min Scan# 1983

Delta R.T. 0.00 min

Lab File: VD067284.D

Acq: 15 Oct 2020 15:33

Instrument :

MSVOA\_D

ClientSampleId :

JC-02-101420-A

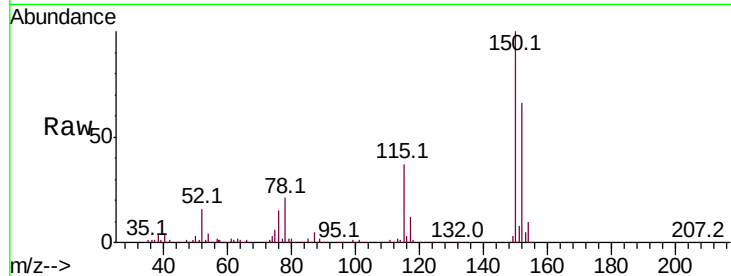
Tot Ion:152 Resp: 240320

Ion Ratio Lower Upper

152 100

115 58.0 29.3 87.9

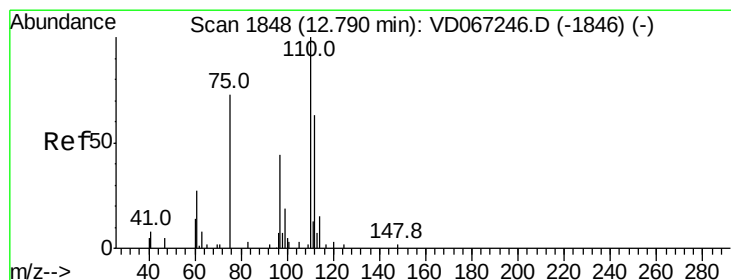
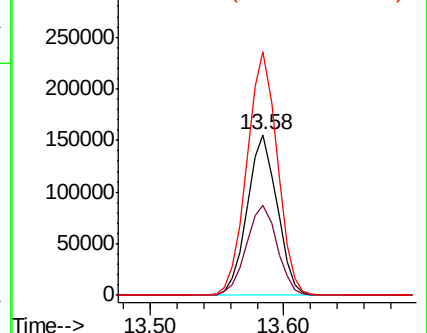
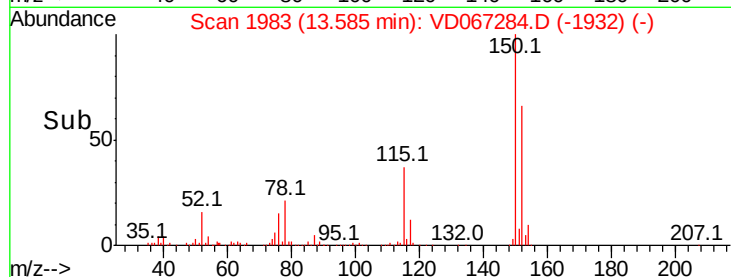
150 154.2 0.0 339.0



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: 64.885 ug/l

RT: 12.64 min Scan# 1823

Delta R.T. -0.15 min

Lab File: VD067284.D

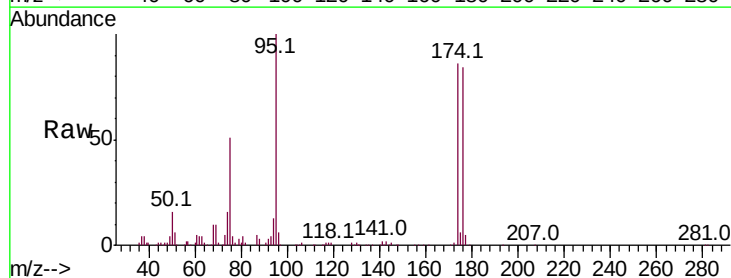
Acq: 15 Oct 2020 15:33

Tgt Ion: 75 Resp: 108075

Ion Ratio Lower Upper

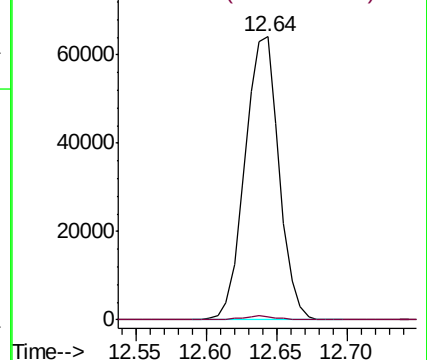
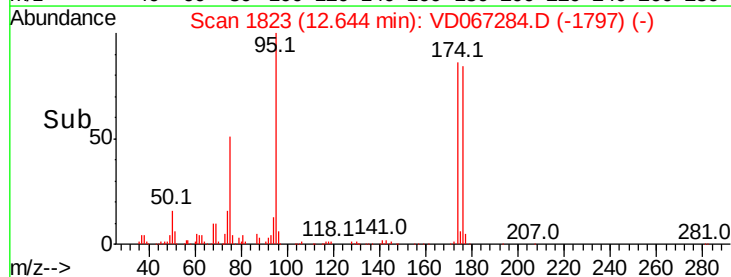
75 100

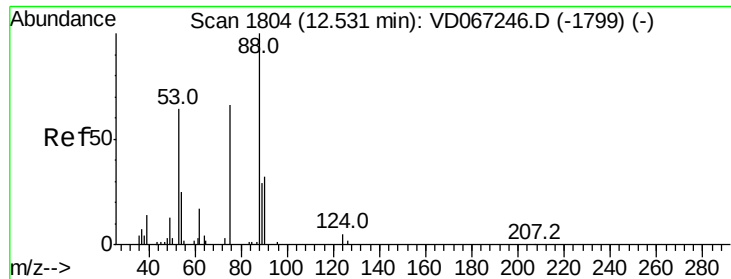
77 1.4 0.0 0.0#



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: 147.139 ug/l

RT: 12.64 min Scan# 1823

Delta R.T. 0.11 min

Lab File: VD067284.D

Acq: 15 Oct 2020 15:33

Instrument :

MSVOA\_D

ClientSampleId :

JC-02-101420-A

Tot Ion: 75 Resp: 108075

Ion Ratio Lower Upper

75 100

53 0.0 78.5 117.7#

89 0.1 39.9 59.9#

