

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD082720\  
 Data File : VD066445.D  
 Acq On : 27 Aug 2020 19:06  
 Operator : VA/SY  
 Sample : L3823-05  
 Misc : 6.56G/5.00ml/MSVOA D/SOIL  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 789UMR-TP05-1218-01

Quant Time: Aug 28 01:49:31 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D082120S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Aug 21 13:36:12 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.97  | 168  | 9885     | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.86  | 114  | 13679    | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.64 | 117  | 13231    | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.58 | 152  | 8398     | 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   | 8628     | 89.03  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 178.06% |          |
| 35) Dibromofluoromethane    | 7.91  | 113  | 5005     | 58.51  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 117.02% |          |
| 50) Toluene-d8              | 10.33 | 98   | 15607    | 49.87  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 99.74%  |          |
| 62) 4-Bromofluorobenzene    | 12.64 | 95   | 6029     | 54.29  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 108.58% |          |

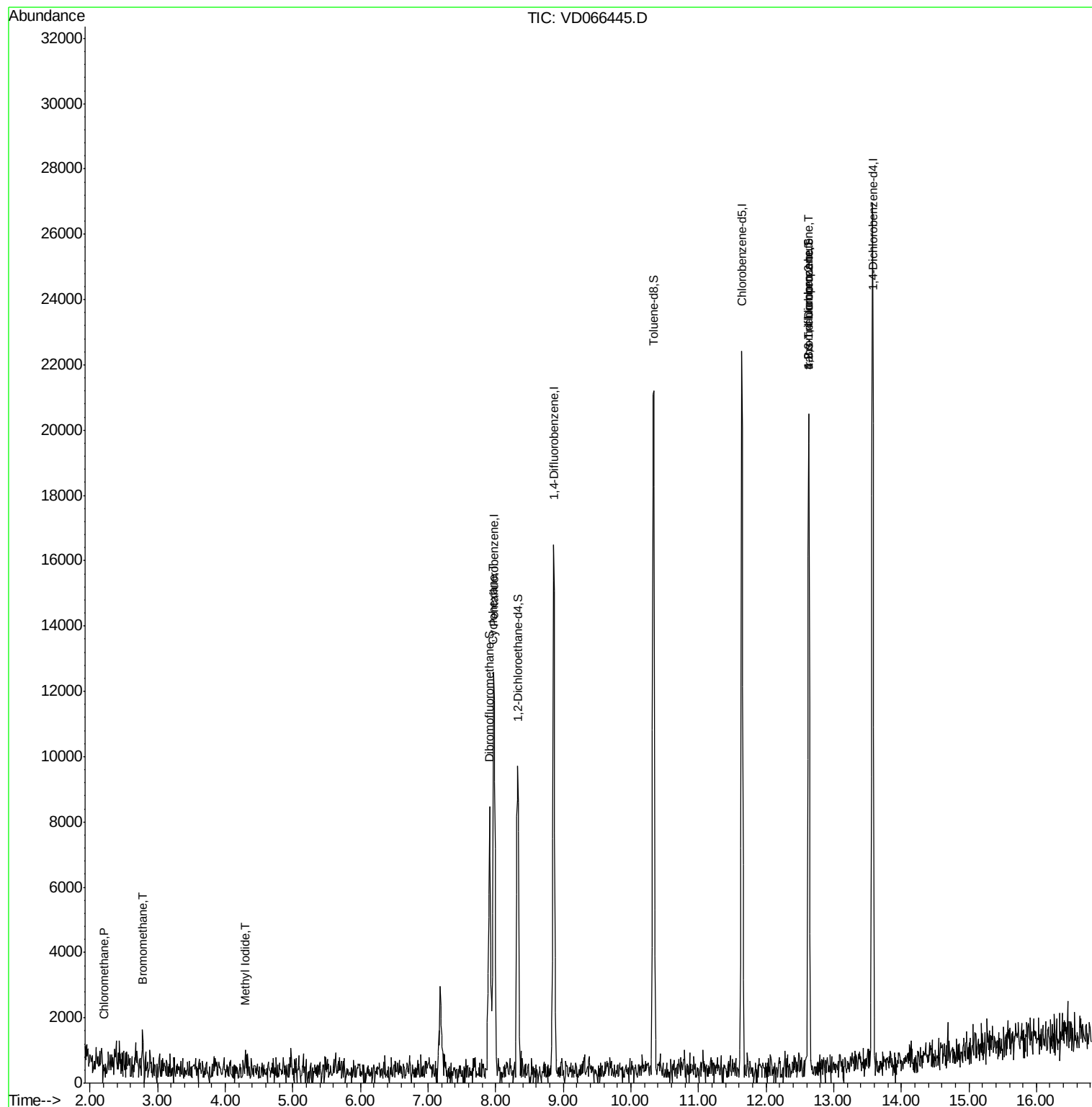
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 3) Chloromethane               | 2.20  | 50   | 69       | 1.158     | ug/l # | 43     |
| 5) Bromomethane                | 2.77  | 94   | 604      | 12.626    | ug/l # | 38     |
| 10) Methyl Iodide              | 4.29  | 142  | 147      | 1.502     | ug/l # | 50     |
| 20) Methylene Chloride         | 4.97  | 84   | 514      | Below Cal | #      | 9      |
| 31) Cyclohexane                | 7.96  | 56   | 276      | 2.051     | ug/l # | 12     |
| 76) 1,2,3-Trichloropropane     | 12.63 | 75   | 3650     | 61.780    | ug/l # | 1      |
| 81) trans-1,4-Dichloro-2-buten | 12.63 | 75   | 3650     | 131.140   | ug/l # | 6      |

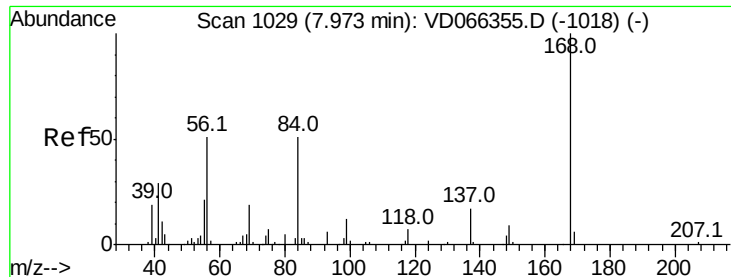
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Fri Aug 21 13:36:12 2020  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.97 min Scan# 1029

Delta R.T. -0.00 min

Lab File: VD066445.D

Acq: 27 Aug 2020 19:06

Instrument :

MSVOA\_D

ClientSampleId :

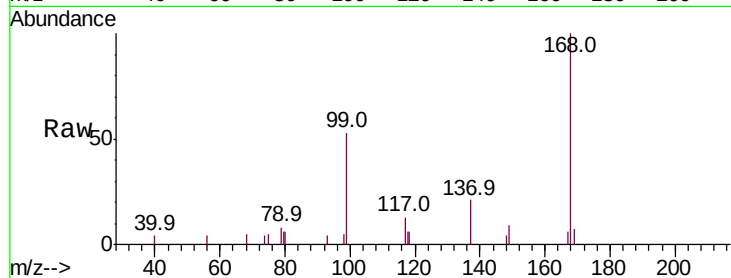
789UMR-TP05-1218-01

Tot Ion:168 Resp: 9885

Ion Ratio Lower Upper

168 100

99 52.8 45.4 68.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC

7.97

4000

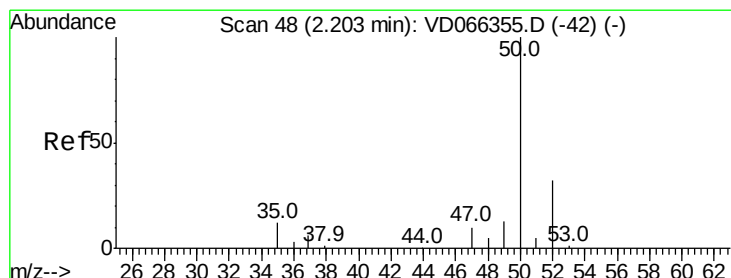
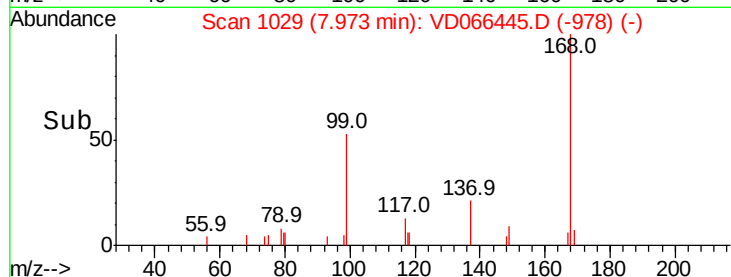
3000

2000

1000

0

Time--> 7.90 7.95 8.00 8.05



#3

Chloromethane

Concen: 1.158 ug/l

RT: 2.20 min Scan# 48

Delta R.T. -0.00 min

Lab File: VD066445.D

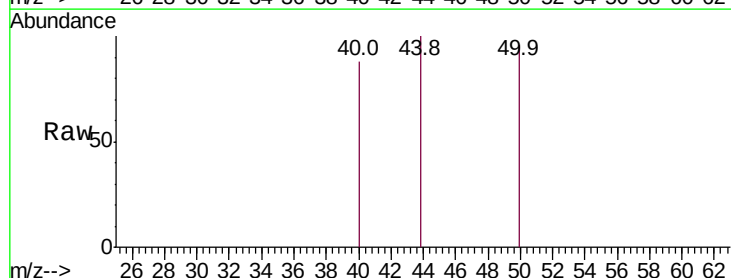
Acq: 27 Aug 2020 19:06

Tgt Ion: 50 Resp: 69

Ion Ratio Lower Upper

50 100

52 0.0 25.7 38.5#



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC

2.20

200

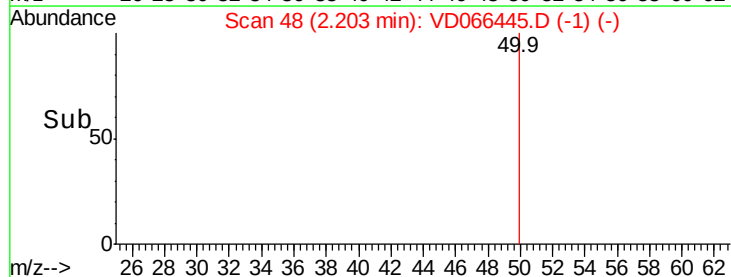
150

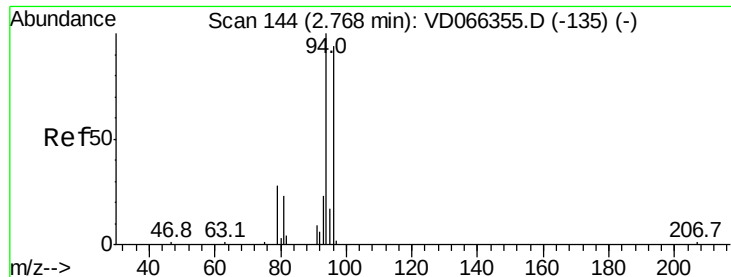
100

50

0

Time--> 2.18 2.19 2.20 2.21 2.22





#5

Bromomethane

Concen: 12.626 ug/l

RT: 2.77 min Scan# 145

Delta R.T. 0.01 min

Lab File: VD066445.D

Acq: 27 Aug 2020 19:06

Instrument :

MSVOA\_D

ClientSampleId :

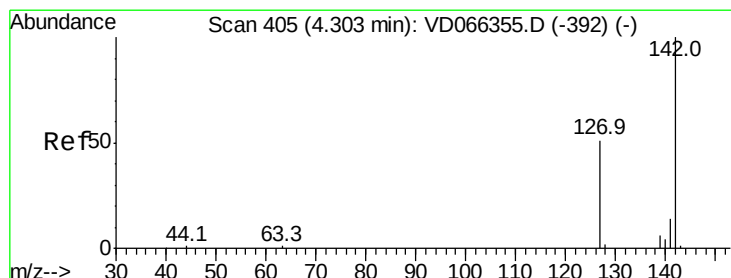
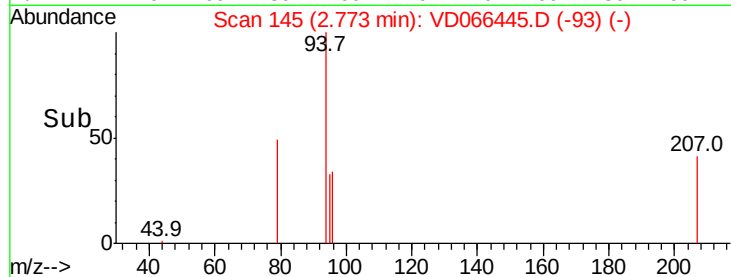
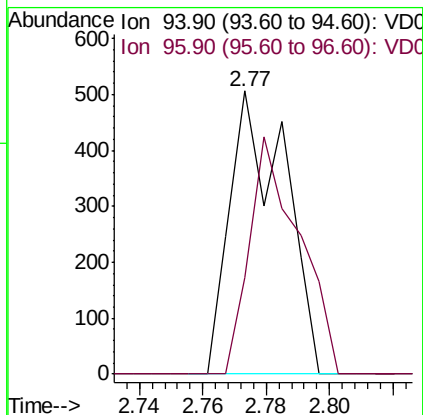
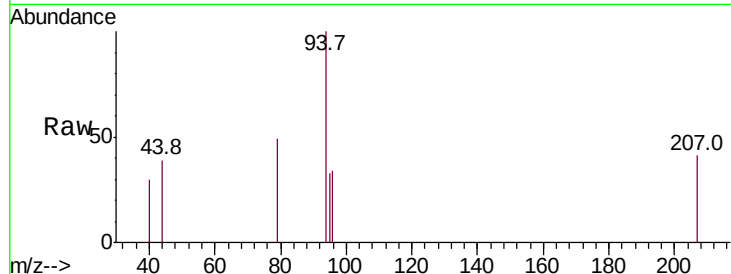
789UMR-TP05-1218-01

Tot Ion: 94 Resp: 604

Ion Ratio Lower Upper

94 100

96 34.0 75.0 112.4#



#10

Methyl Iodide

Concen: 1.502 ug/l

RT: 4.29 min Scan# 403

Delta R.T. -0.01 min

Lab File: VD066445.D

Acq: 27 Aug 2020 19:06

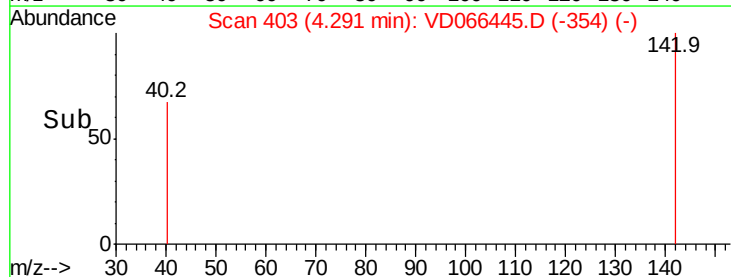
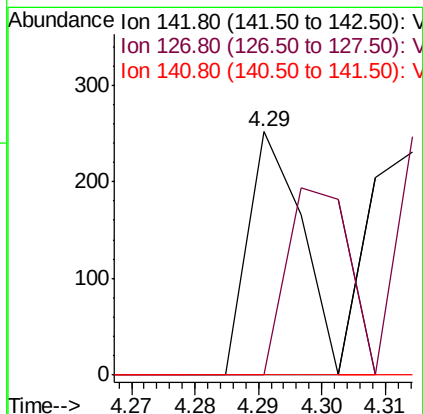
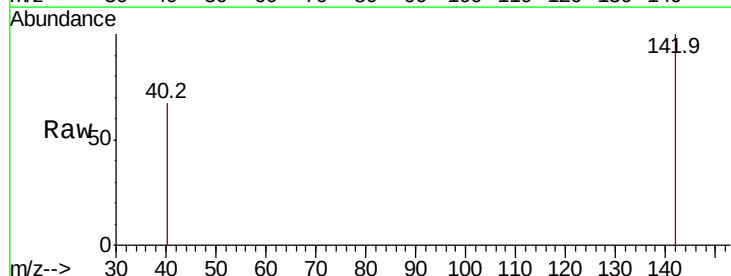
Tgt Ion: 142 Resp: 147

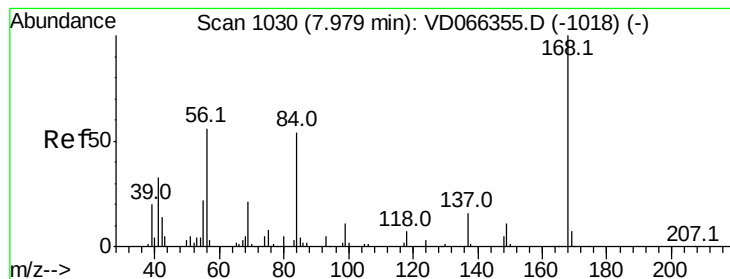
Ion Ratio Lower Upper

142 100

127 90.5 41.8 62.8#

141 0.0 11.8 17.6#





#31

Cyclohexane

Concen: 2.051 ug/l

RT: 7.96 min Scan# 1027

Delta R.T. -0.02 min

Lab File: VD066445.D

Acq: 27 Aug 2020 19:06

Instrument :

MSVOA\_D

ClientSampleId :

789UMR-TP05-1218-01

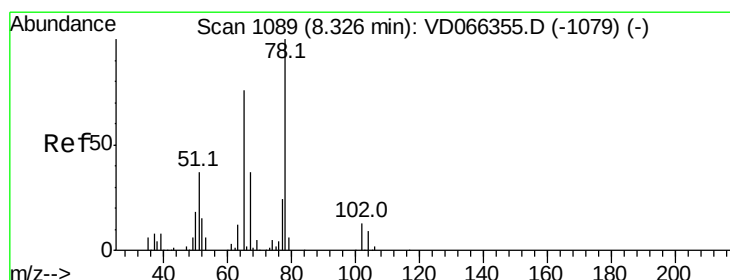
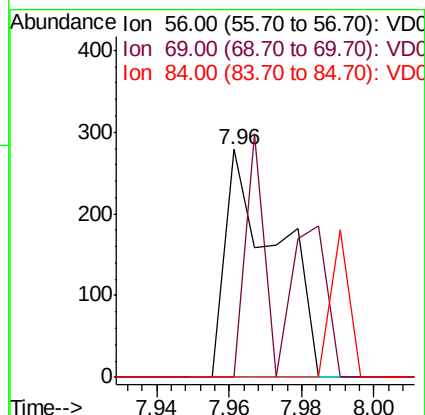
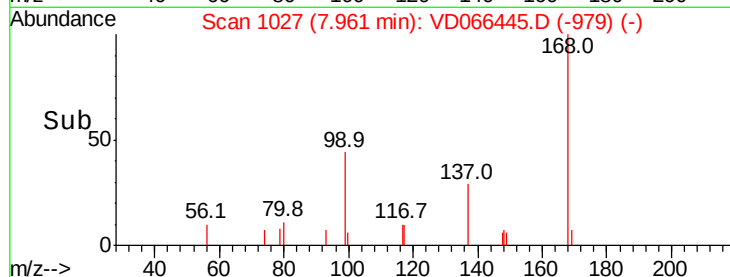
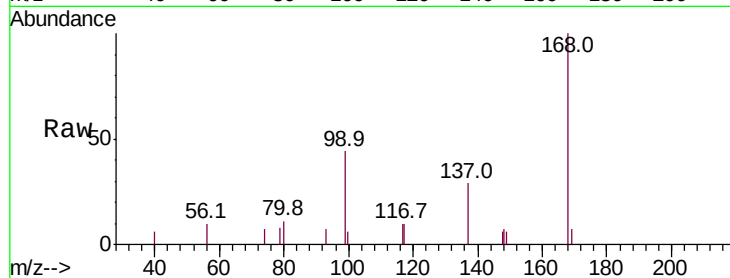
Tot Ion: 56 Resp: 276

Ion Ratio Lower Upper

56 100

69 0.0 29.6 44.4#

84 0.0 76.6 115.0#



#33

1,2-Dichloroethane-d4

Concen: 89.029 ug/l

RT: 8.33 min Scan# 1089

Delta R.T. -0.00 min

Lab File: VD066445.D

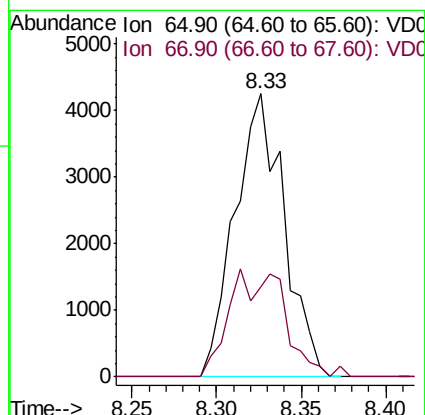
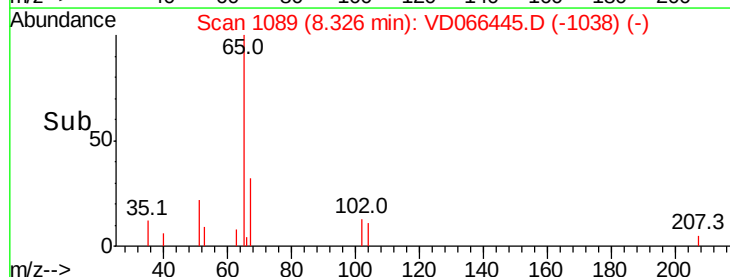
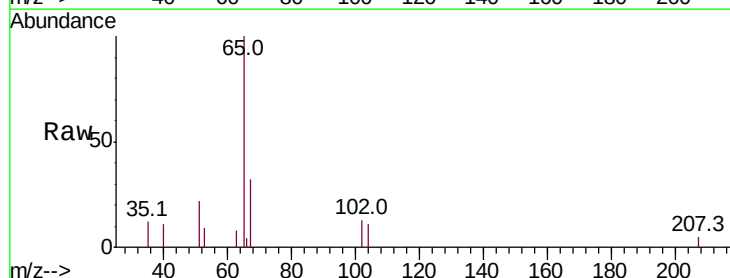
Acq: 27 Aug 2020 19:06

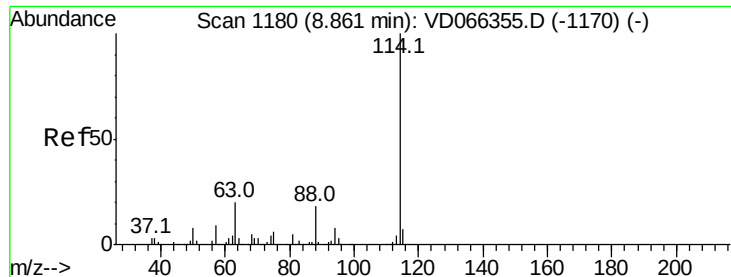
Tgt Ion: 65 Resp: 8628

Ion Ratio Lower Upper

65 100

67 19.1 0.0 101.6

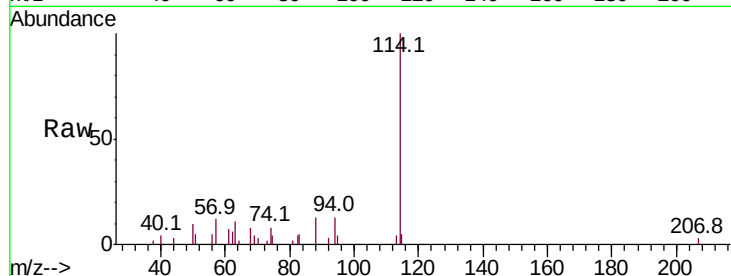




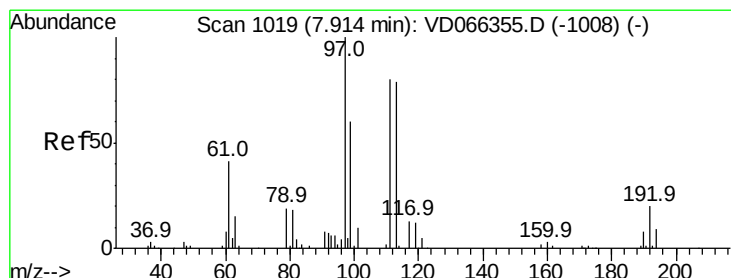
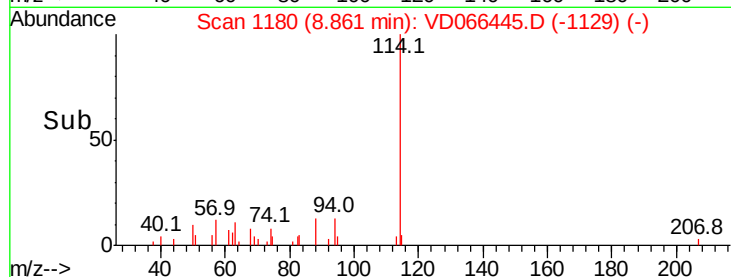
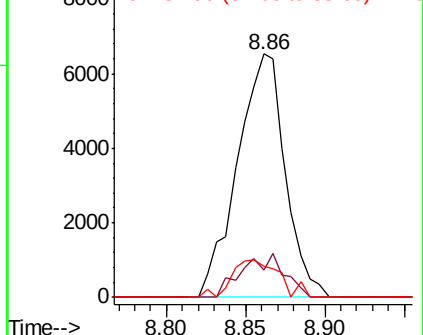
#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.86 min Scan# 1180  
 Delta R.T. -0.00 min  
 Lab File: VD066445.D  
 Acq: 27 Aug 2020 19:06

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 789UMR-TP05-1218-01

Tot Ion:114 Resp: 13679  
 Ion Ratio Lower Upper  
 114 100  
 63 11.3 0.0 40.8  
 88 12.7 0.0 35.4

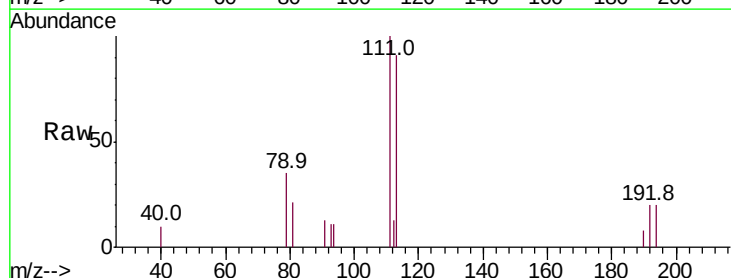


Abundance Ion 113.90 (113.60 to 114.60): V  
 Ion 63.00 (62.70 to 63.70): V  
 Ion 87.90 (87.60 to 88.60): V

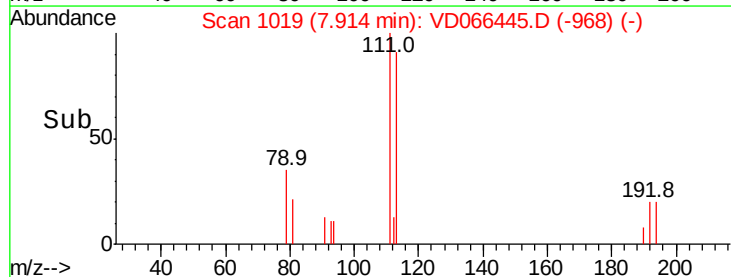
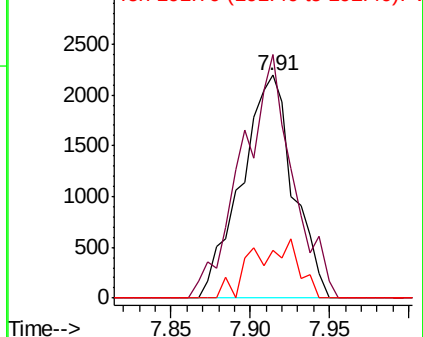


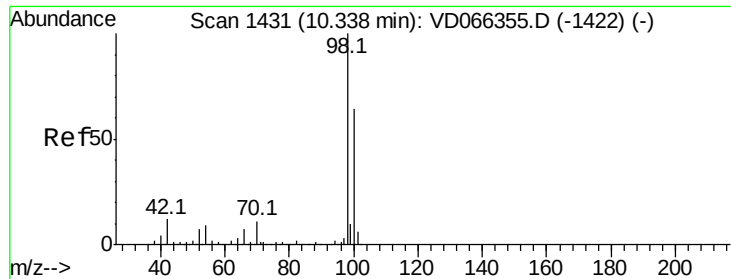
#35  
 Dibromofluoromethane  
 Concen: 58.513 ug/l  
 RT: 7.91 min Scan# 1019  
 Delta R.T. -0.00 min  
 Lab File: VD066445.D  
 Acq: 27 Aug 2020 19:06

Tgt Ion:113 Resp: 5005  
 Ion Ratio Lower Upper  
 113 100  
 111 107.5 80.3 120.5  
 192 10.0 19.0 28.6#



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

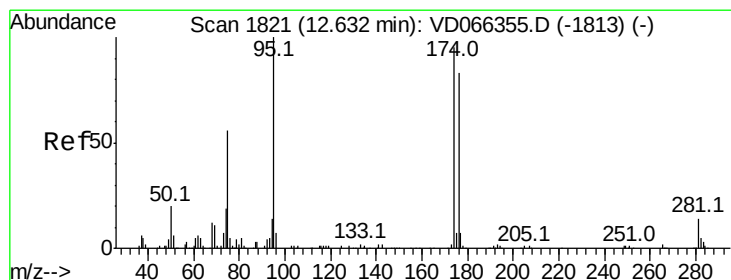
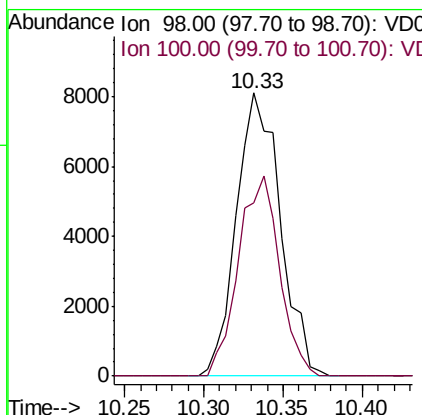
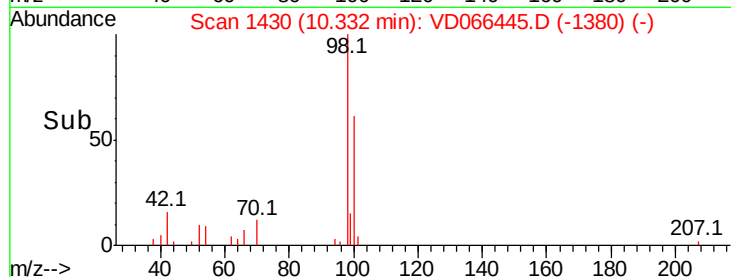
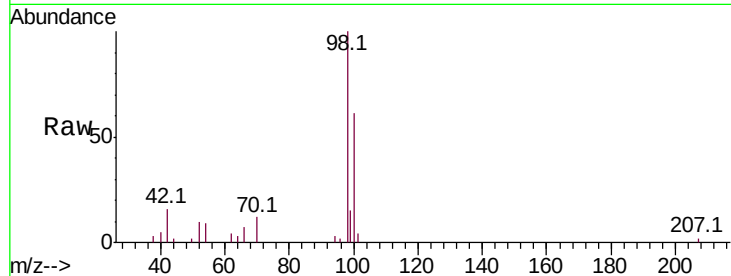




#50  
Toluene-d8  
Concen: 49.868 ug/l  
RT: 10.33 min Scan# 1430  
Delta R.T. -0.01 min  
Lab File: VD066445.D  
Acq: 27 Aug 2020 19:06

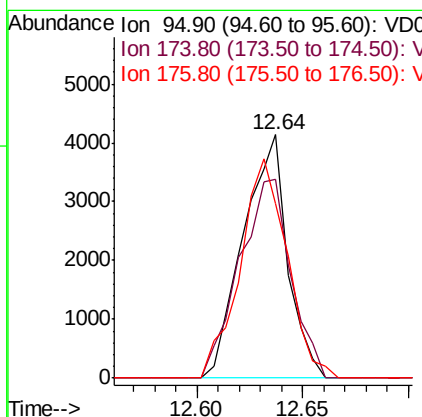
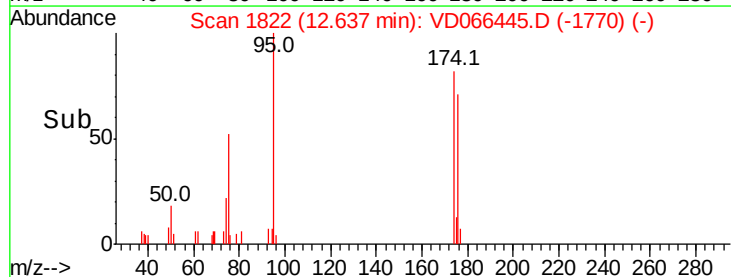
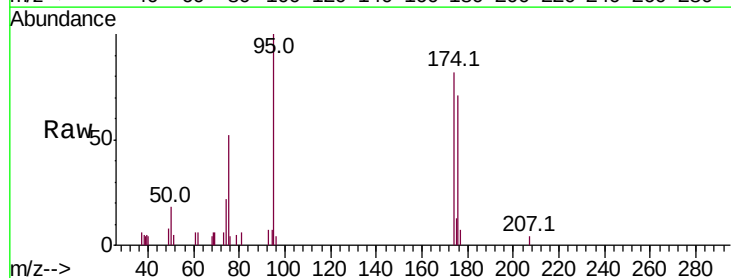
Instrument :  
MSVOA\_D  
ClientSampleId :  
789UMR-TP05-1218-01

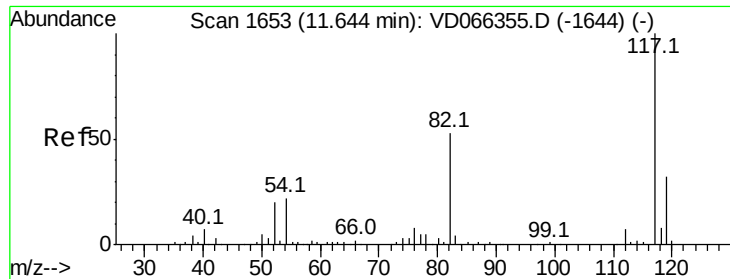
Tot Ion: 98 Resp: 15607  
Ion Ratio Lower Upper  
98 100  
100 66.1 53.0 79.4



#62  
4-Bromofluorobenzene  
Concen: 54.289 ug/l  
RT: 12.64 min Scan# 1822  
Delta R.T. 0.01 min  
Lab File: VD066445.D  
Acq: 27 Aug 2020 19:06

Tgt Ion: 95 Resp: 6029  
Ion Ratio Lower Upper  
95 100  
174 94.7 0.0 183.4  
176 95.6 0.0 173.8

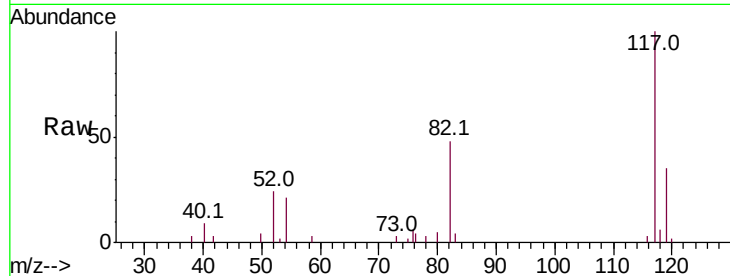




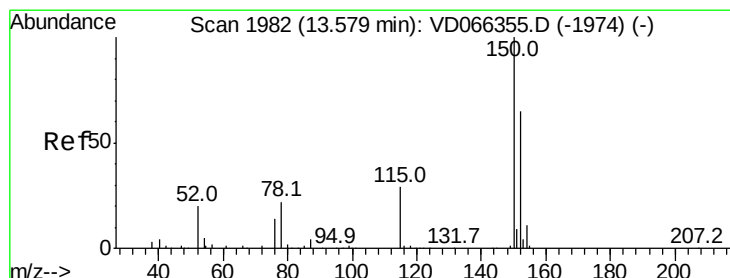
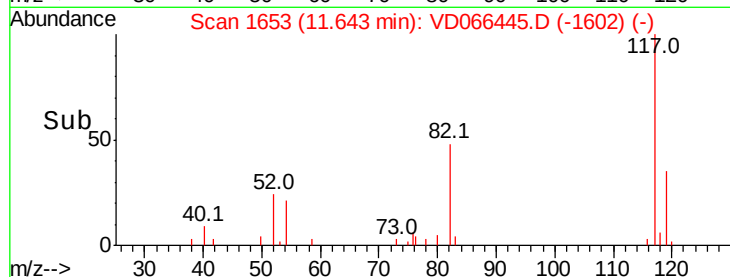
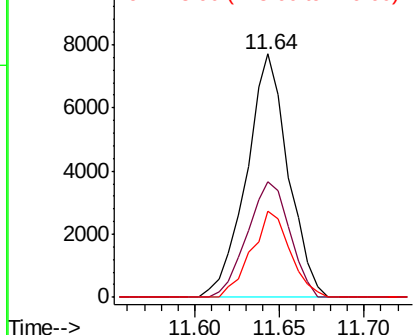
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.64 min Scan# 1653  
Delta R.T. -0.00 min  
Lab File: VD066445.D  
Acq: 27 Aug 2020 19:06

Instrument :  
MSVOA\_D  
ClientSampleId :  
789UMR-TP05-1218-01

Tot Ion:117 Resp: 13231  
Ion Ratio Lower Upper  
117 100  
82 47.7 42.8 64.2  
119 35.3 25.8 38.8

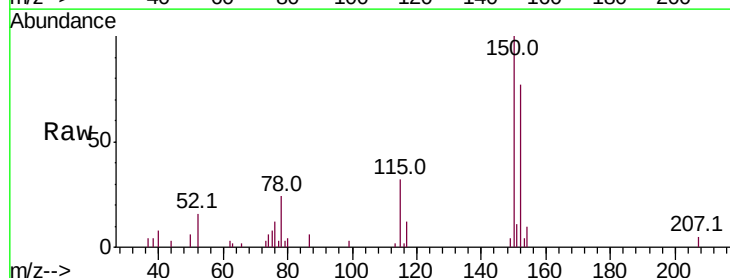


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): V  
Ion 118.90 (118.60 to 119.60): V

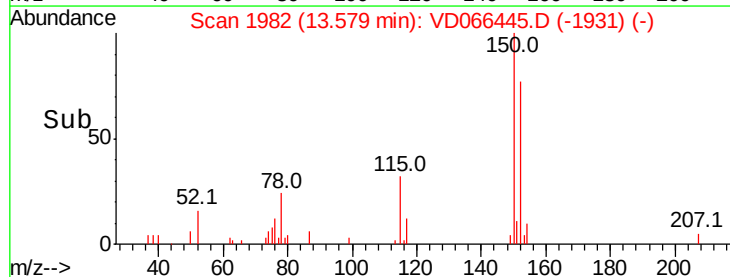
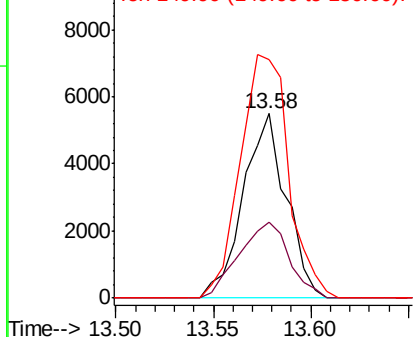


#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.58 min Scan# 1982  
Delta R.T. -0.00 min  
Lab File: VD066445.D  
Acq: 27 Aug 2020 19:06

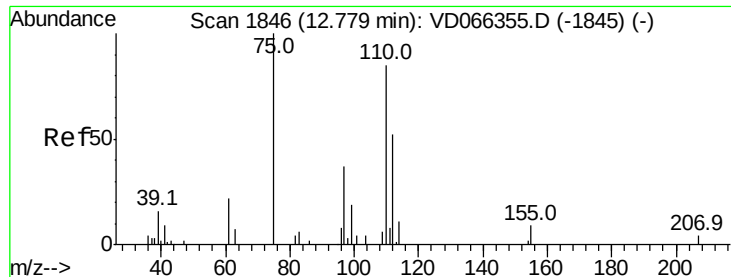
Tgt Ion:152 Resp: 8398  
Ion Ratio Lower Upper  
152 100  
115 48.1 28.3 85.0  
150 148.4 0.0 343.2



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: 61.780 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. -0.15 min

Lab File: VD066445.D

Acq: 27 Aug 2020 19:06

Instrument :

MSVOA\_D

ClientSampleId :

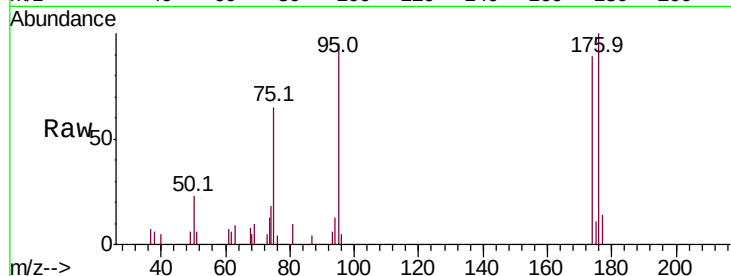
789UMR-TP05-1218-01

Tot Ion: 75 Resp: 3650

Ion Ratio Lower Upper

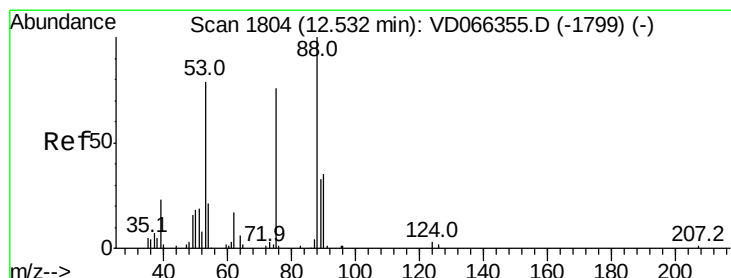
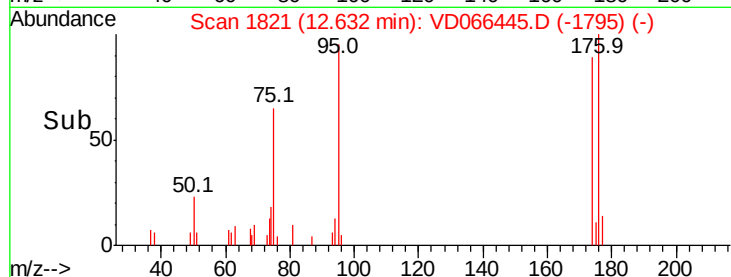
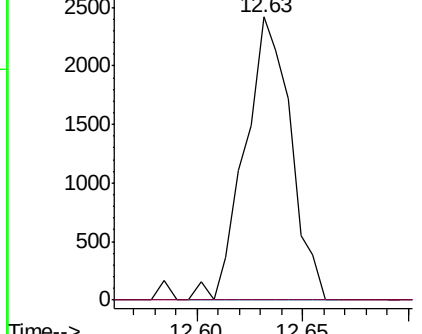
75 100

77 0.0 182.9 548.9#



Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 77.00 (76.70 to 77.70): VDC



#81

trans-1,4-Dichloro-2-butene

Concen: 131.140 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. 0.10 min

Lab File: VD066445.D

Acq: 27 Aug 2020 19:06

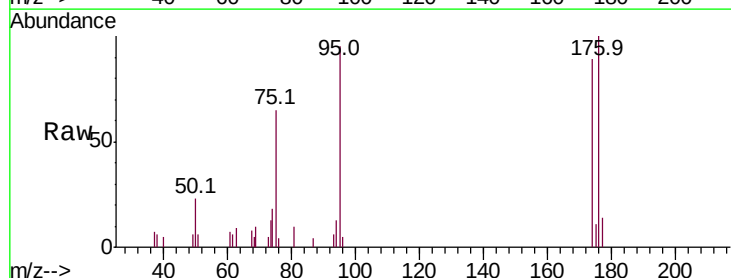
Tgt Ion: 75 Resp: 3650

Ion Ratio Lower Upper

75 100

53 0.0 87.4 131.2#

89 0.0 39.4 59.0#



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

