

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD091620\  
 Data File : VD066719.D  
 Acq On : 16 Sep 2020 15:04  
 Operator : VA/SY  
 Sample : L4020-01  
 Misc : 4.87G/5.00ml/MSVOA D/SOIL  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 ETGI-362

Quant Time: Sep 17 00:51:12 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D091520S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Sep 15 16:35:37 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.97  | 168  | 349852   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.86  | 114  | 646536   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.64 | 117  | 611405   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.58 | 152  | 271012   | 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   | 229003   | 61.35 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 122.70% |          |
| 35) Dibromofluoromethane    | 7.91  | 113  | 225737   | 56.95 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 113.90% |          |
| 50) Toluene-d8              | 10.34 | 98   | 789835   | 55.93 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 111.86% |          |
| 62) 4-Bromofluorobenzene    | 12.63 | 95   | 267291   | 54.83 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 109.66% |          |

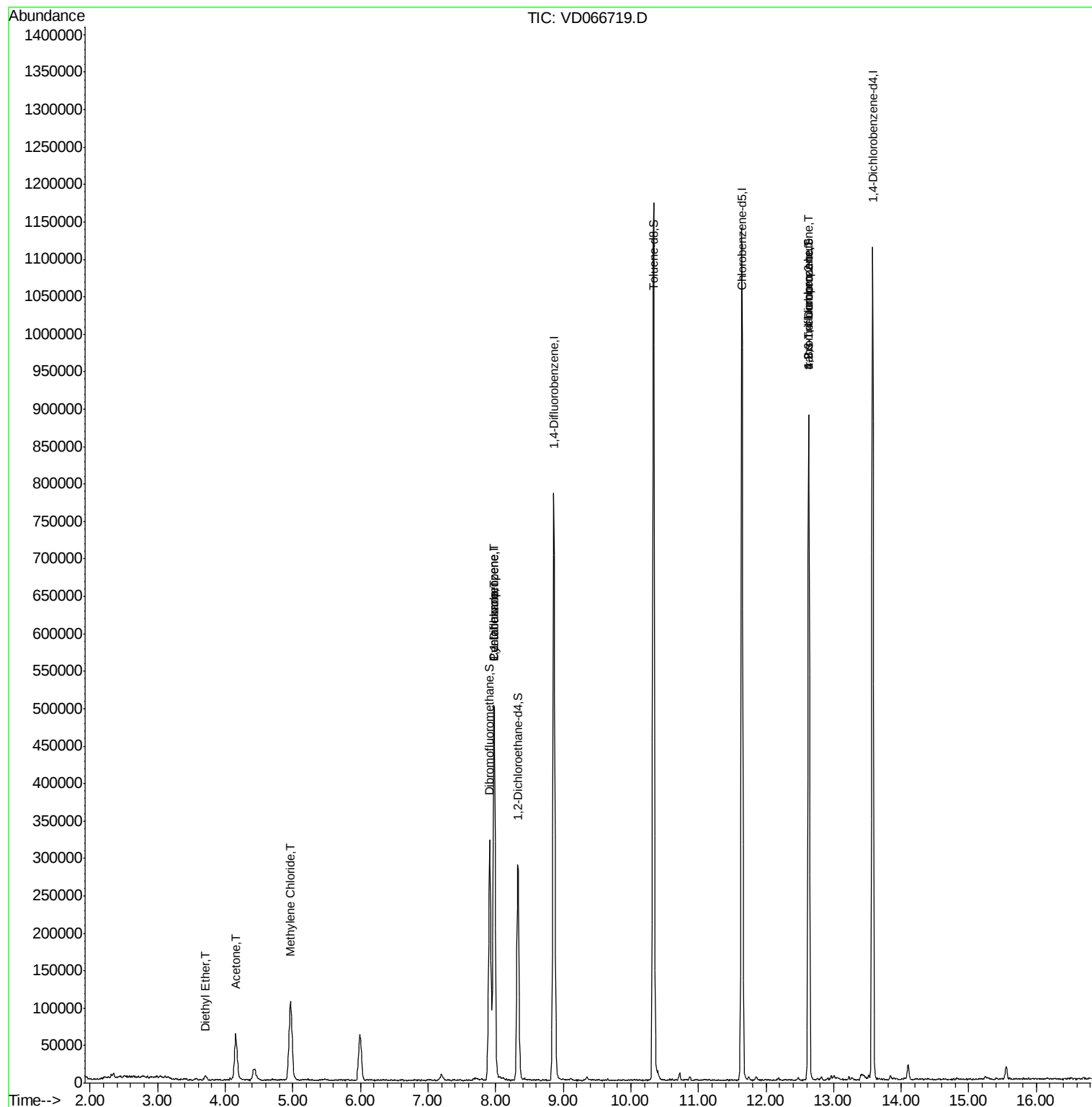
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units | Qvalue |
|--------------------------------|-------|------|----------|-----------|-------|--------|
| 2) Dichlorodifluoromethane     | 1.99  | 85   | 877      | Below Cal |       | 98     |
| 8) Diethyl Ether               | 3.71  | 74   | 3144     | 1.824     | ug/l  | 92     |
| 11) Tert butyl alcohol         | 5.21  | 59   | 513      | Below Cal | #     | 91     |
| 16) Acetone                    | 4.16  | 43   | 112802   | 148.399   | ug/l  | 90     |
| 18) Methyl Acetate             | 4.71  | 43   | 168      | Below Cal | #     | 52     |
| 20) Methylene Chloride         | 4.96  | 84   | 79488    | 14.179    | ug/l  | 93     |
| 31) Cyclohexane                | 7.98  | 56   | 10300    | 1.562     | ug/l  | # 13   |
| 36) 1,1-Dichloropropene        | 7.98  | 75   | 31843    | 4.790     | ug/l  | # 51   |
| 76) 1,2,3-Trichloropropane     | 12.63 | 75   | 149912   | 64.624    | ug/l  | # 100  |
| 81) trans-1,4-Dichloro-2-buten | 12.63 | 75   | 149912   | 139.470   | ug/l  | # 8    |

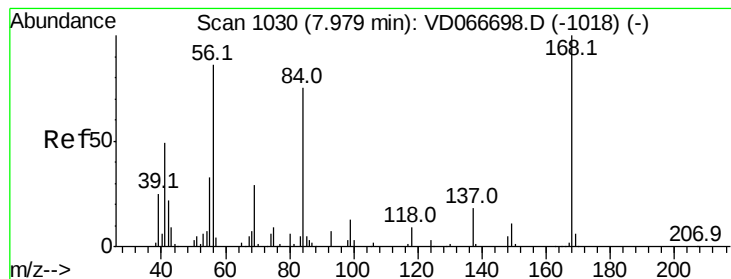
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.97 min Scan# 1029

Delta R.T. -0.01 min

Lab File: VD066719.D

Acq: 16 Sep 2020 15:04

Instrument :

MSVOA\_D

ClientSampleId :

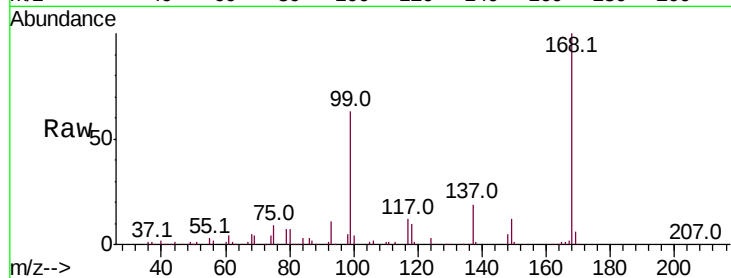
ETGI-362

Tot Ion:168 Resp: 349852

Ion Ratio Lower Upper

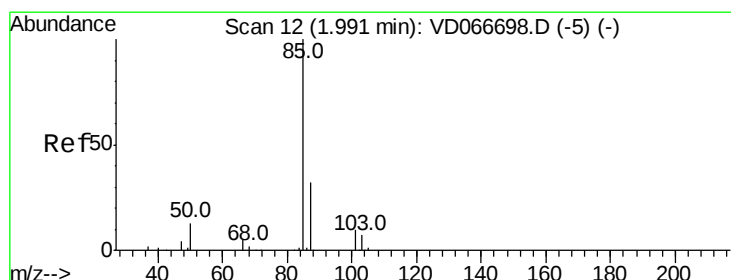
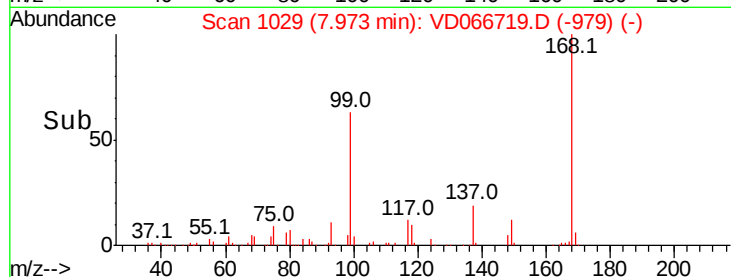
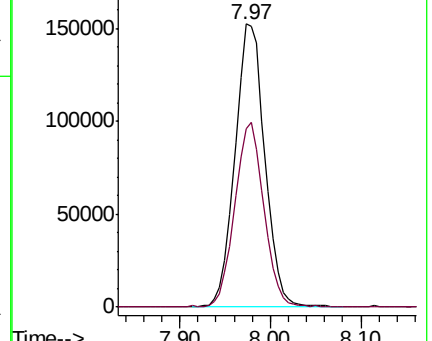
168 100

99 62.7 54.4 81.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.99 min Scan# 11

Delta R.T. -0.01 min

Lab File: VD066719.D

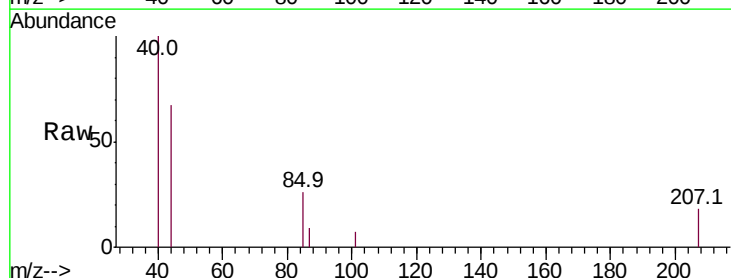
Acq: 16 Sep 2020 15:04

Tgt Ion: 85 Resp: 877

Ion Ratio Lower Upper

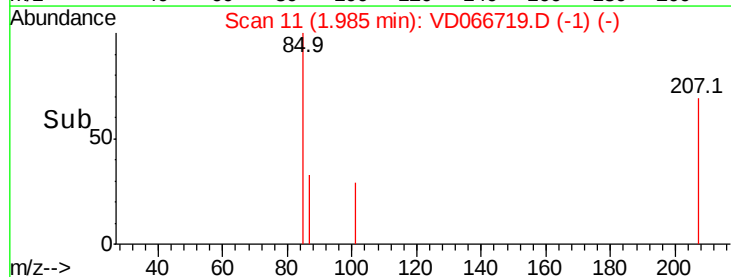
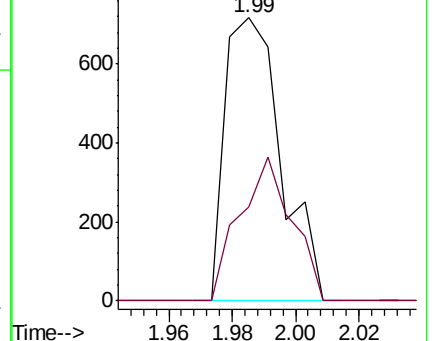
85 100

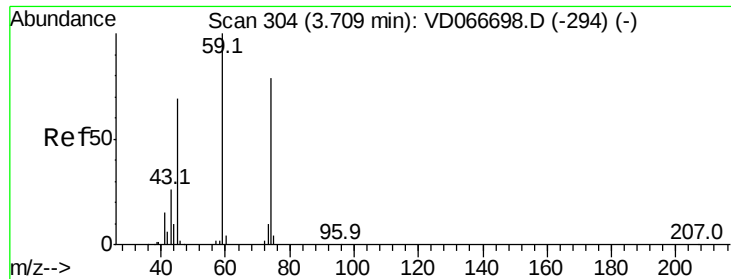
87 32.9 15.9 47.6



Abundance Ion 84.90 (84.60 to 85.60): VDC

Ion 86.90 (86.60 to 87.60): VDC





#8

Diethyl Ether

Concen: 1.824 ug/l

RT: 3.71 min Scan# 304

Delta R.T. -0.00 min

Lab File: VD066719.D

Acq: 16 Sep 2020 15:04

Instrument :

MSVOA\_D

ClientSampleId :

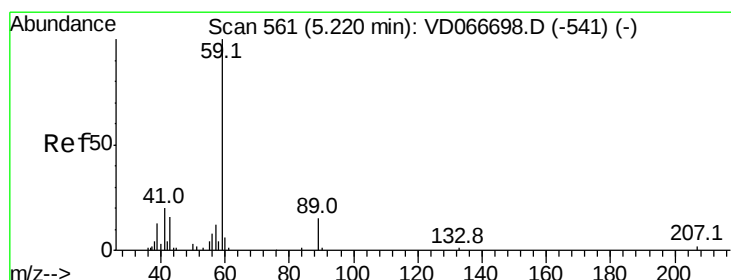
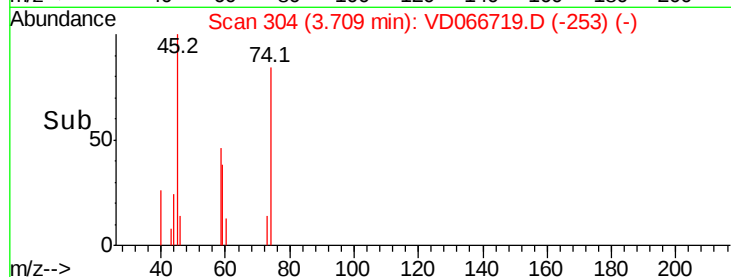
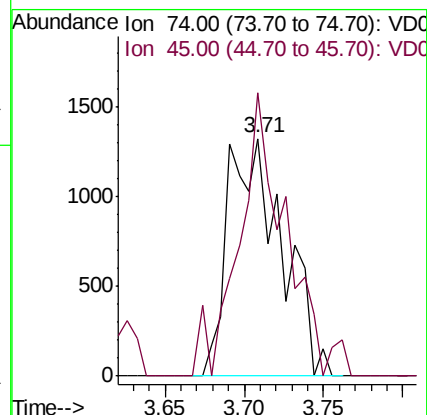
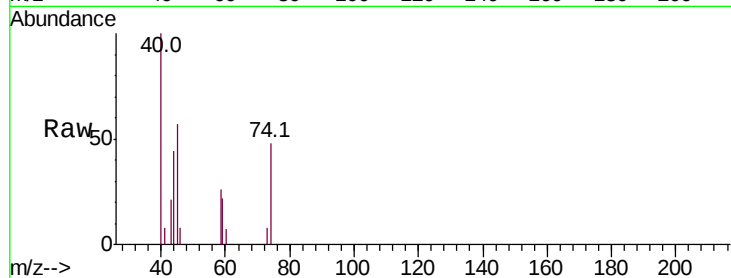
ETGI-362

Tot Ion: 74 Resp: 3144

Ion Ratio Lower Upper

74 100

45 103.5 48.0 144.0



#11

Tert butyl alcohol

Concen: Below Cal

RT: 5.21 min Scan# 559

Delta R.T. -0.01 min

Lab File: VD066719.D

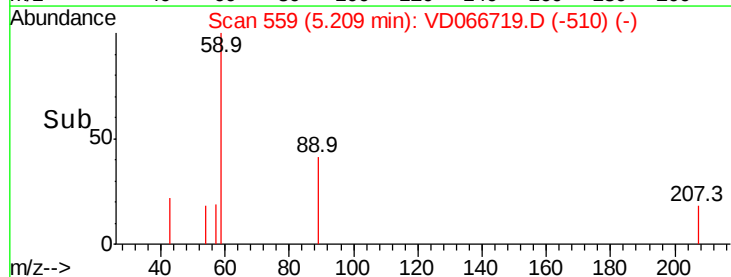
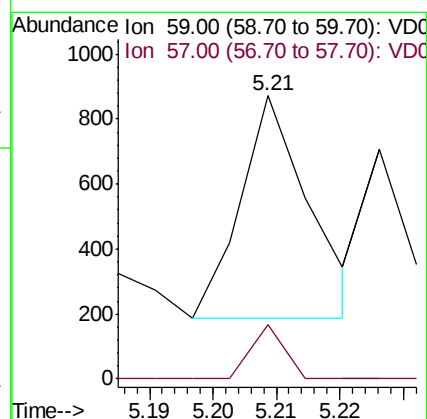
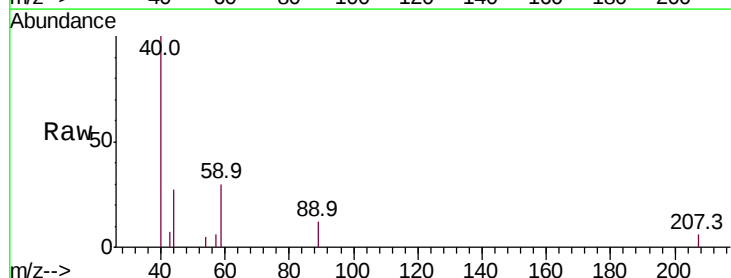
Acq: 16 Sep 2020 15:04

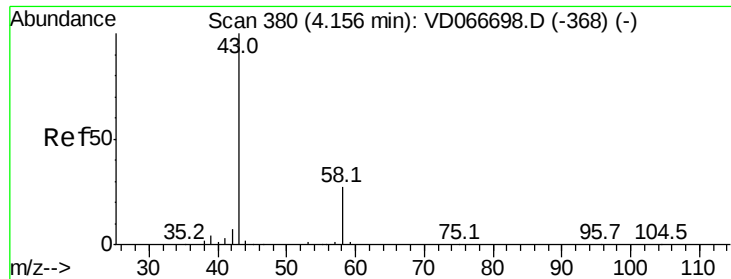
Tgt Ion: 59 Resp: 513

Ion Ratio Lower Upper

59 100

57 11.5 6.7 10.1#





#16

Acetone

Concen: 148.399 ug/l

RT: 4.16 min Scan# 380

Delta R.T. -0.00 min

Lab File: VD066719.D

Acq: 16 Sep 2020 15:04

Instrument :

MSVOA\_D

ClientSampled :

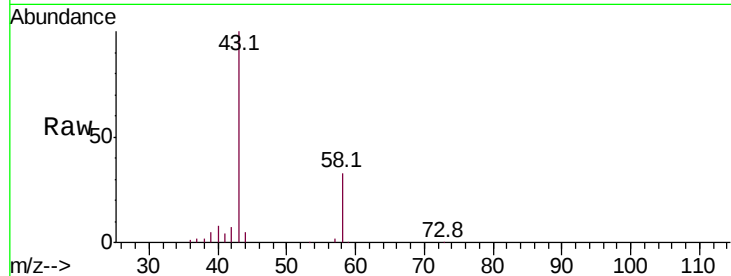
ETGI-362

Tot Ion: 43 Resp: 112802

Ion Ratio Lower Upper

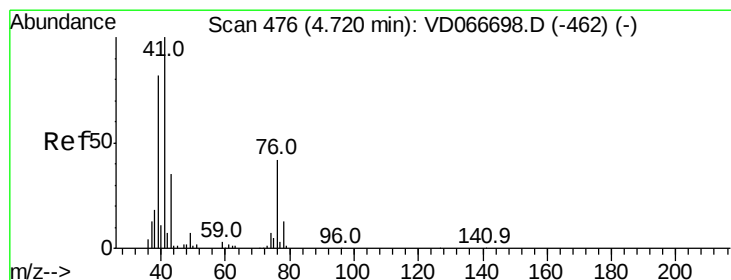
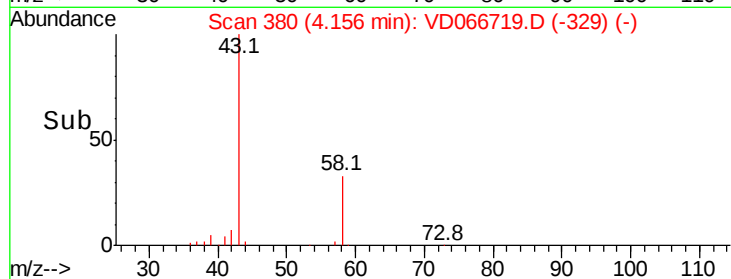
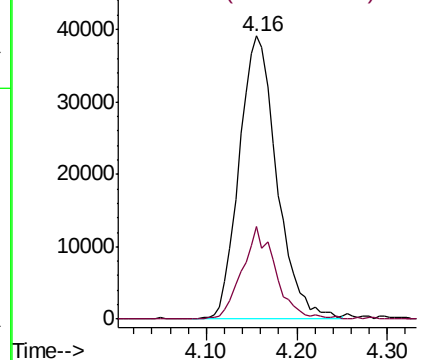
43 100

58 32.7 21.9 32.9



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC



#18

Methyl Acetate

Concen: Below Cal

RT: 4.71 min Scan# 474

Delta R.T. -0.01 min

Lab File: VD066719.D

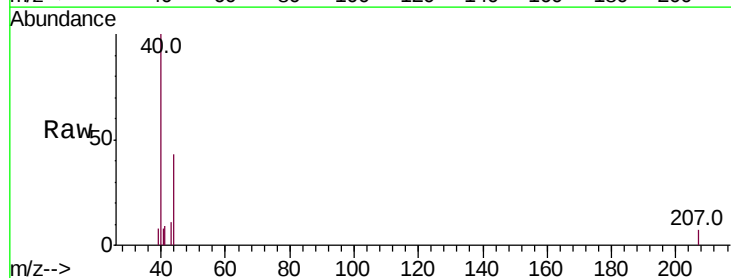
Acq: 16 Sep 2020 15:04

Tgt Ion: 43 Resp: 168

Ion Ratio Lower Upper

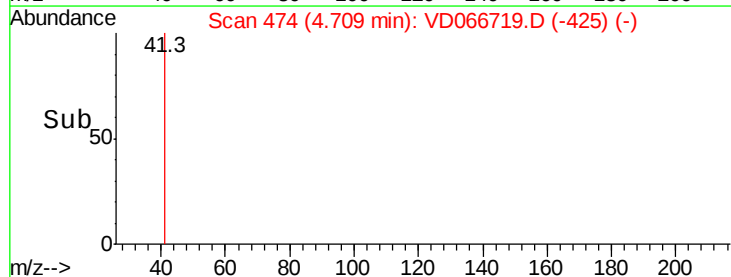
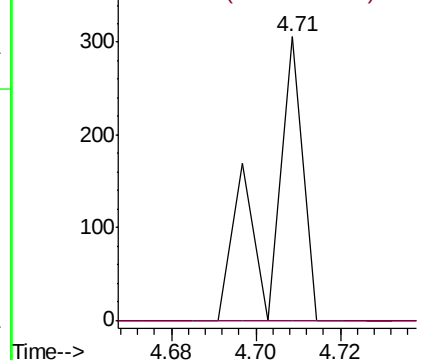
43 100

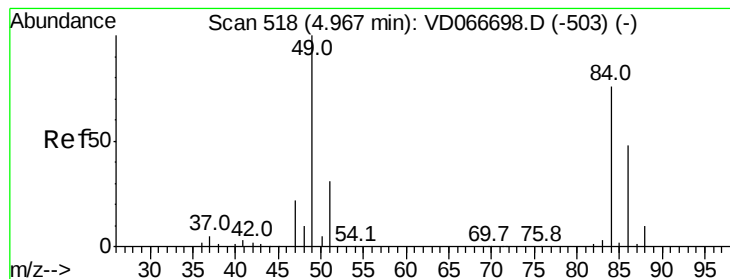
74 0.0 18.6 28.0#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 74.00 (73.70 to 74.70): VDC





#20

Methvlene Chloride

Concen: 14.179 ug/l

RT: 4.96 min Scan# 517

Delta R.T. -0.01 min

Lab File: VD066719.D

Acq: 16 Sep 2020 15:04

Instrument :

MSVOA\_D

ClientSampleId :

ETGI-362

Tot Ion: 84 Resp: 79488

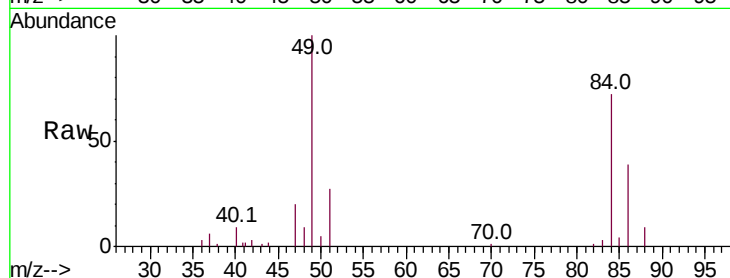
Ion Ratio Lower Upper

84 100

49 138.7 105.0 157.6

51 38.0 32.2 48.4

86 54.6 50.4 75.6



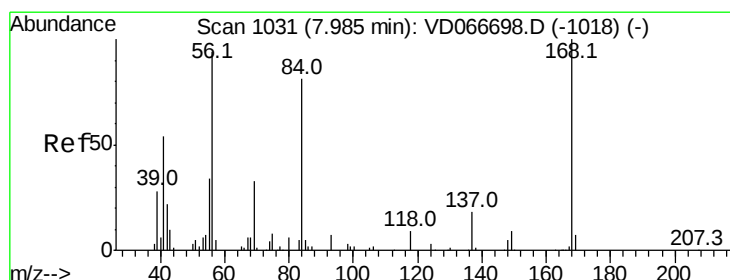
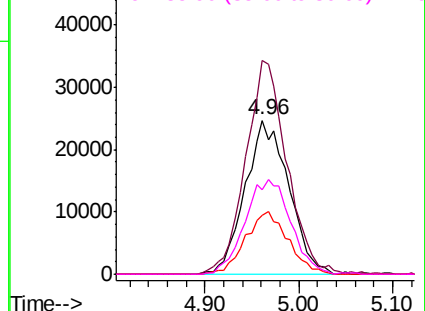
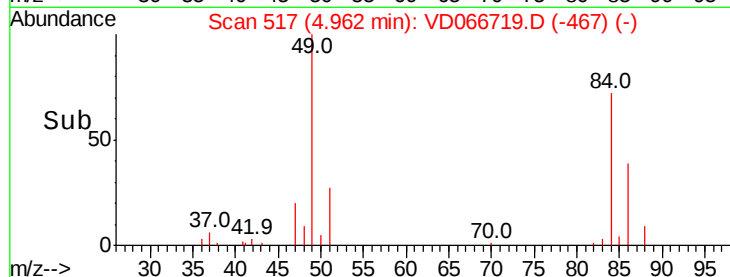
Abundance

Ion 83.90 (83.60 to 84.60): VDC

Ion 48.90 (48.60 to 49.60): VDC

Ion 50.90 (50.60 to 51.60): VDC

Ion 85.90 (85.60 to 86.60): VDC



#31

Cyclohexane

Concen: 1.562 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.01 min

Lab File: VD066719.D

Acq: 16 Sep 2020 15:04

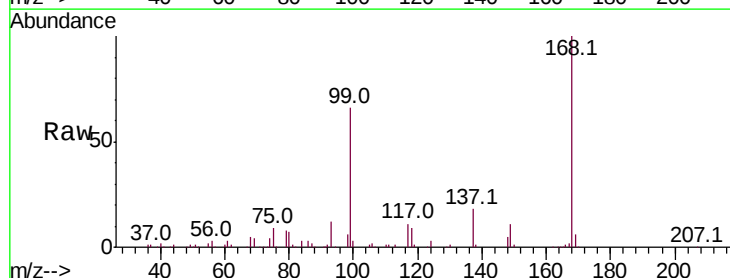
Tgt Ion: 56 Resp: 10300

Ion Ratio Lower Upper

56 100

69 156.3 27.7 41.5#

84 119.2 68.5 102.7#

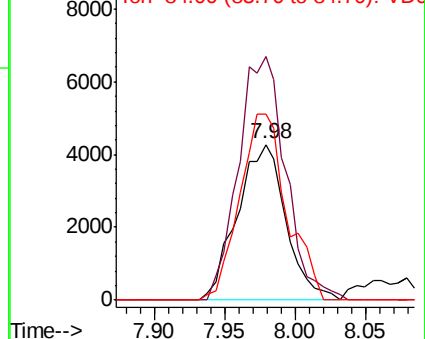
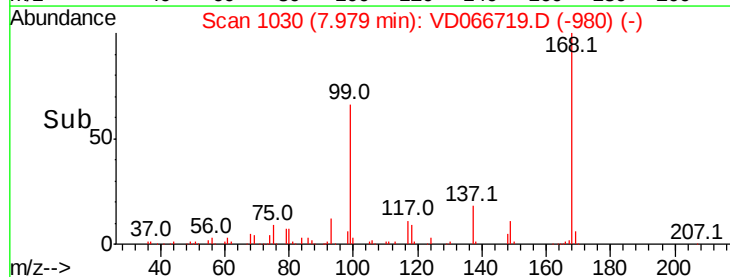


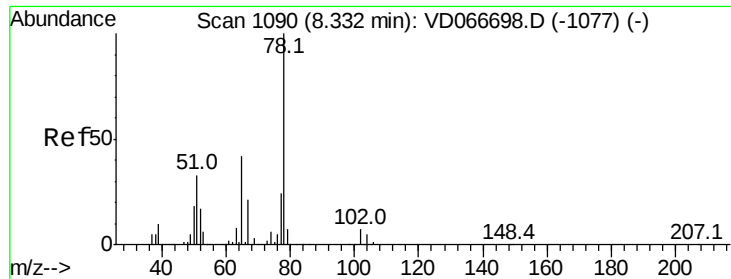
Abundance

Ion 56.00 (55.70 to 56.70): VDC

Ion 69.00 (68.70 to 69.70): VDC

Ion 84.00 (83.70 to 84.70): VDC

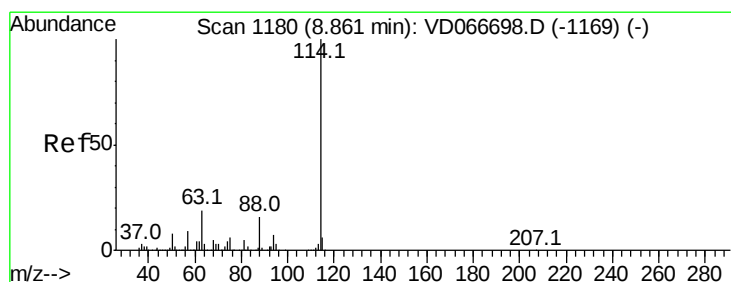
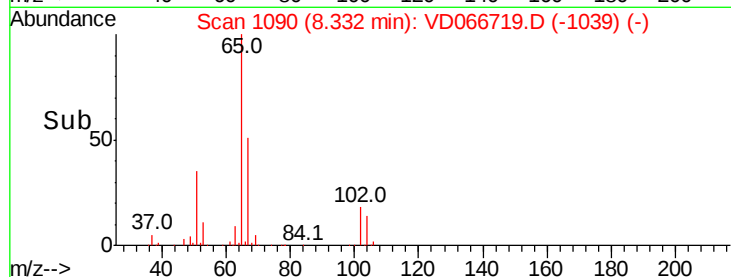
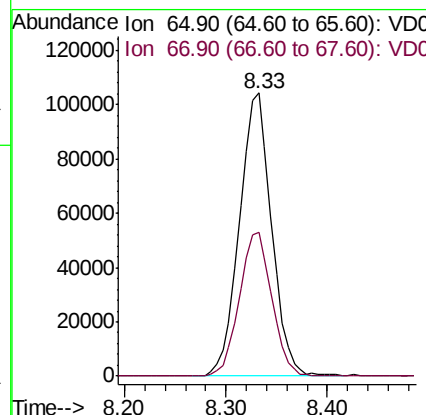
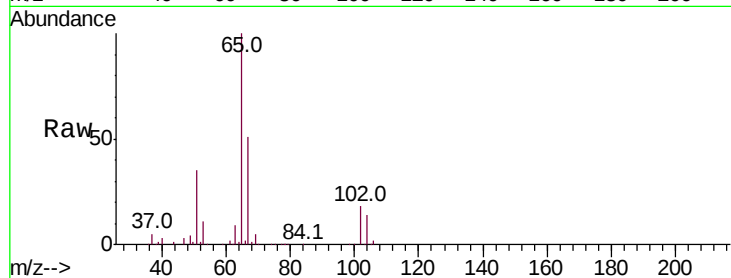




#33  
 1,2-Dichloroethane-d4  
 Concen: 61.350 ug/l  
 RT: 8.33 min Scan# 1090  
 Delta R.T. -0.00 min  
 Lab File: VD066719.D  
 Acq: 16 Sep 2020 15:04

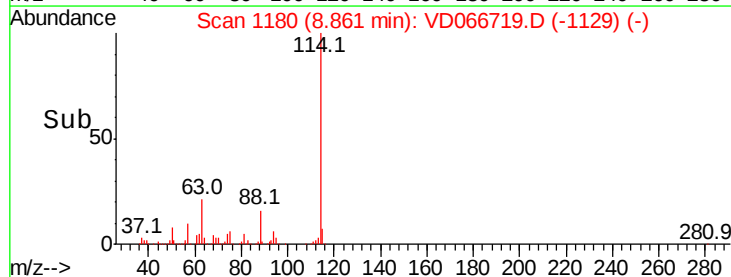
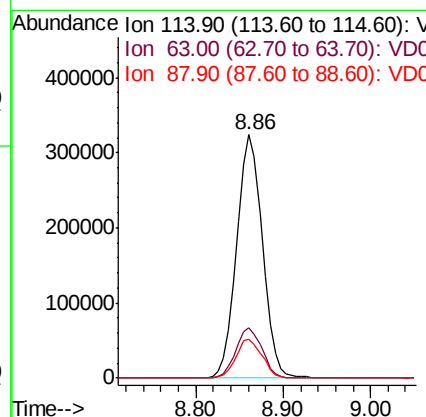
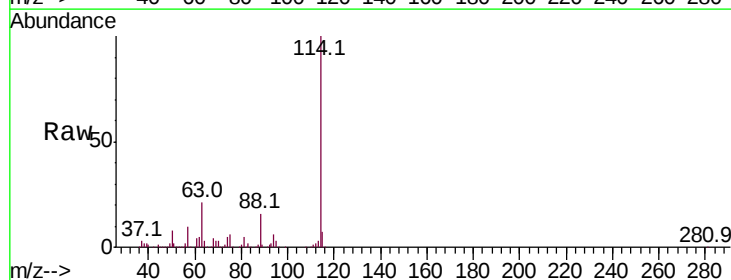
Instrument :  
 MSVOA\_D  
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 ETGI-362

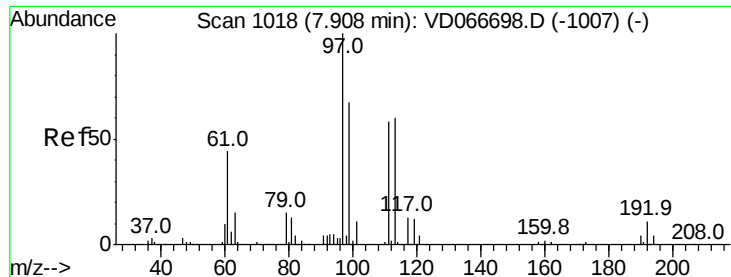
Tot Ion: 65 Resp: 229003  
 Ion Ratio Lower Upper  
 65 100  
 67 51.5 0.0 102.2



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.86 min Scan# 1180  
 Delta R.T. -0.00 min  
 Lab File: VD066719.D  
 Acq: 16 Sep 2020 15:04

Tgt Ion: 114 Resp: 646536  
 Ion Ratio Lower Upper  
 114 100  
 63 20.6 0.0 37.6  
 88 15.9 0.0 32.2





#35

Dibromofluoromethane

Concen: 56.948 ug/l

RT: 7.91 min Scan# 1019

Delta R.T. 0.01 min

Lab File: VD066719.D

Acq: 16 Sep 2020 15:04

Instrument :

MSVOA\_D

ClientSampleId :

ETGI-362

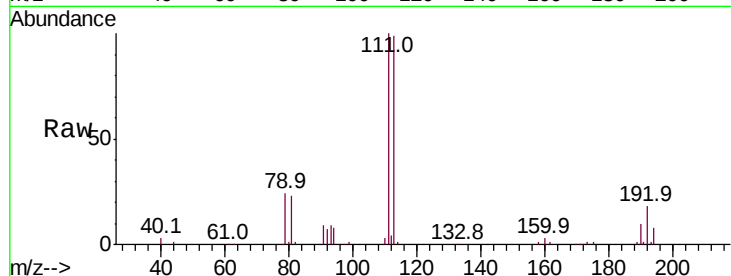
Tot Ion:113 Resp: 225737

Ion Ratio Lower Upper

113 100

111 100.8 83.2 124.8

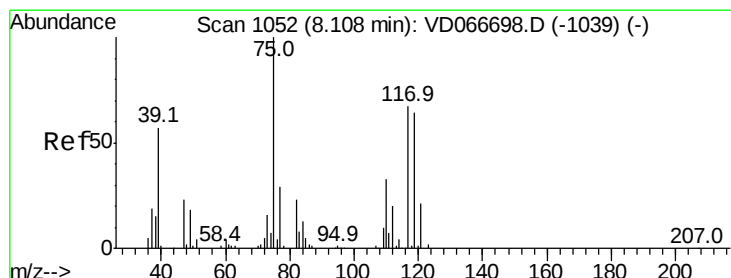
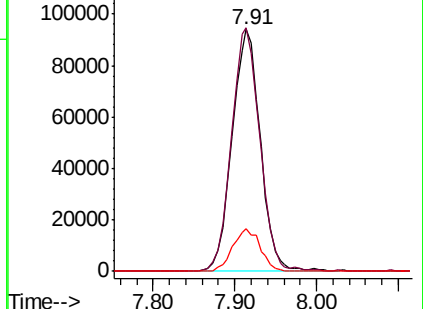
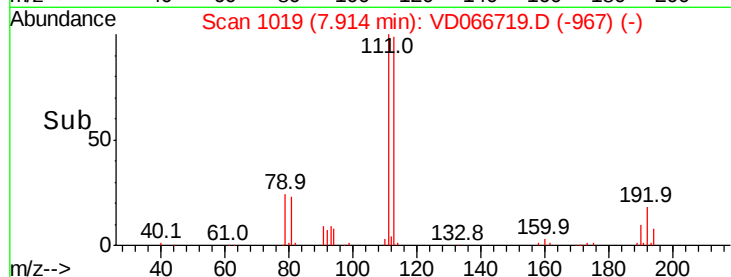
192 17.2 14.8 22.2



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



#36

1,1-Dichloropropene

Concen: 4.790 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.13 min

Lab File: VD066719.D

Acq: 16 Sep 2020 15:04

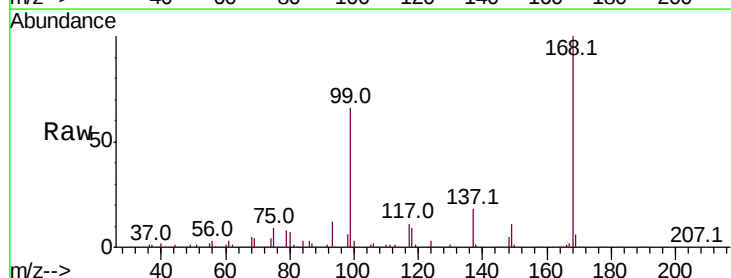
Tgt Ion: 75 Resp: 31843

Ion Ratio Lower Upper

75 100

110 9.5 17.1 51.2#

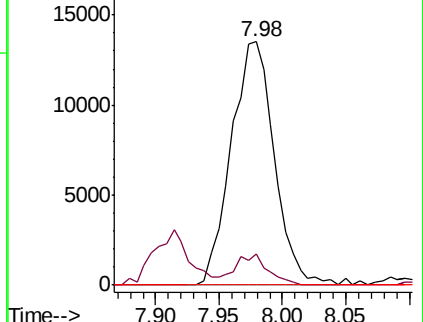
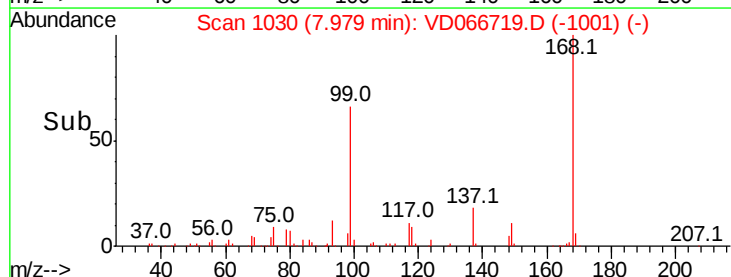
77 0.0 25.0 37.6#

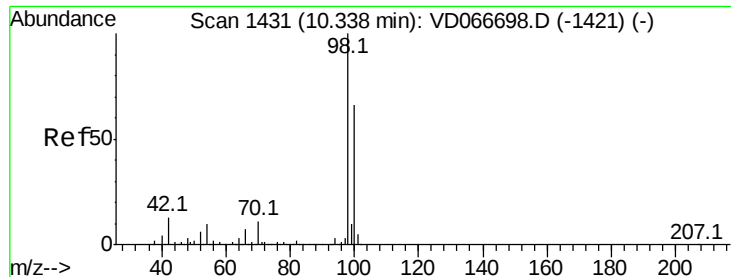


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): V





#50

Toluene-d8

Concen: 55.928 ug/l

RT: 10.34 min Scan# 1431

Delta R.T. -0.00 min

Lab File: VD066719.D

Acq: 16 Sep 2020 15:04

Instrument :

MSVOA\_D

ClientSampleId :

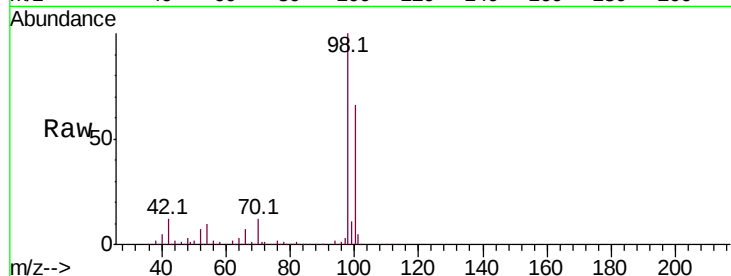
ETGI-362

Tot Ion: 98 Resp: 789835

Ion Ratio Lower Upper

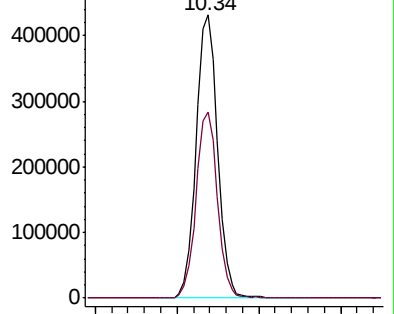
98 100

100 65.4 52.7 79.1

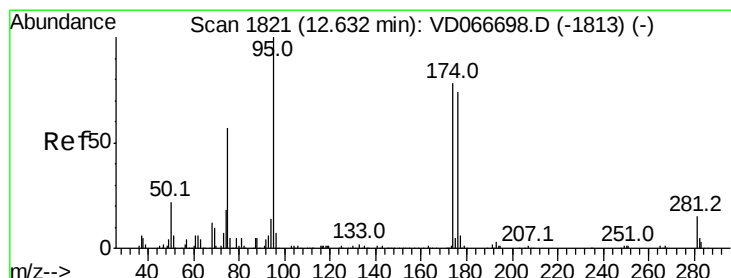
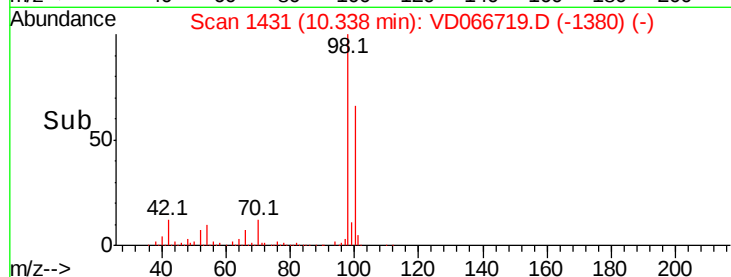


Abundance Ion 98.00 (97.70 to 98.70): VDC

Ion 100.00 (99.70 to 100.70): VDC



Time-->



#62

4-Bromofluorobenzene

Concen: 54.831 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. -0.00 min

Lab File: VD066719.D

Acq: 16 Sep 2020 15:04

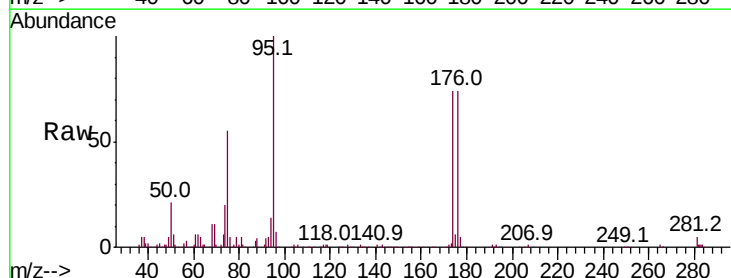
Tgt Ion: 95 Resp: 267291

Ion Ratio Lower Upper

95 100

174 75.4 0.0 156.6

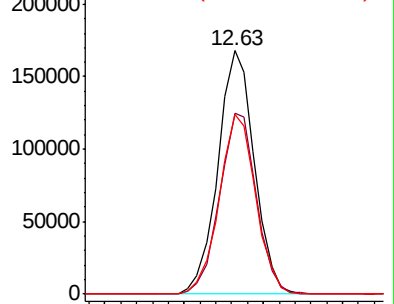
176 74.0 0.0 150.2



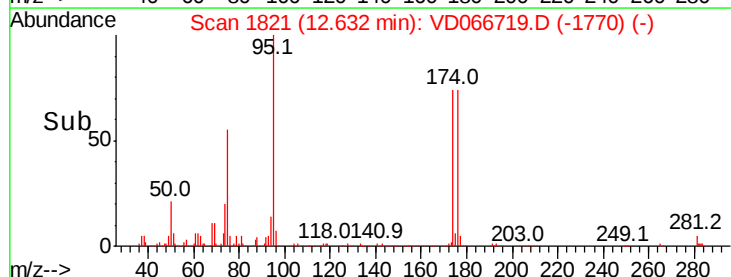
Abundance Ion 94.90 (94.60 to 95.60): VDC

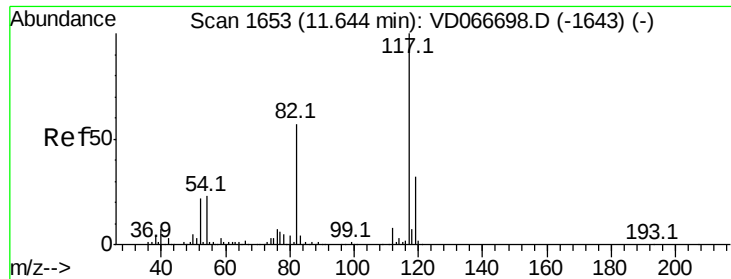
Ion 173.80 (173.50 to 174.50): VDC

Ion 175.80 (175.50 to 176.50): VDC



Time-->

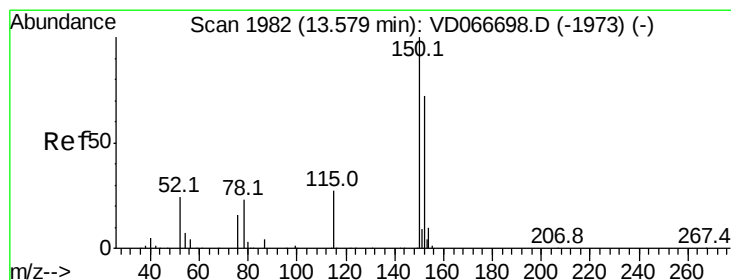
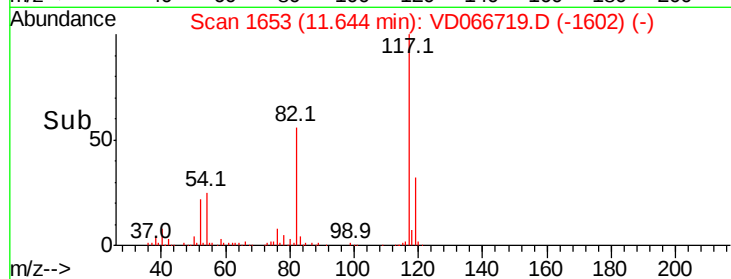
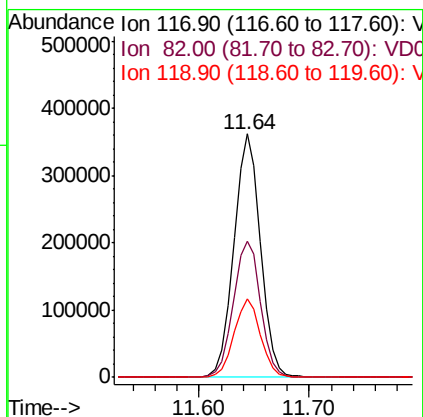
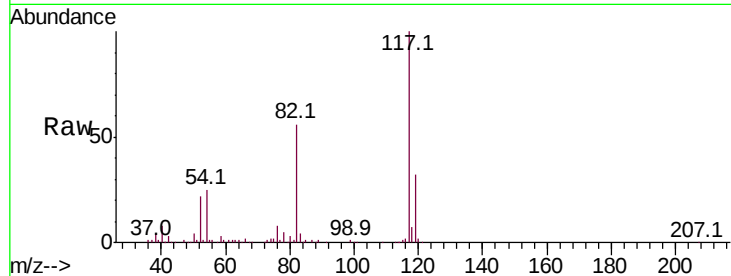




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.64 min Scan# 1653  
Delta R.T. -0.00 min  
Lab File: VD066719.D  
Acq: 16 Sep 2020 15:04

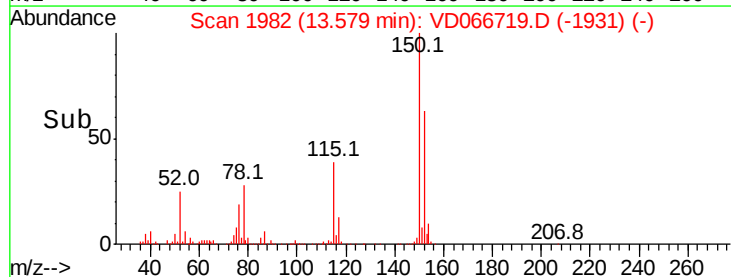
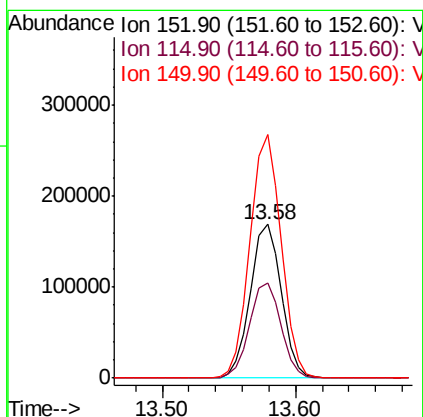
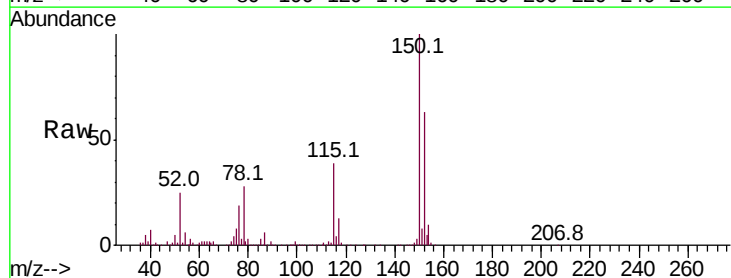
Instrument :  
MSVOA\_D  
ClientSampleId :  
ETGI-362

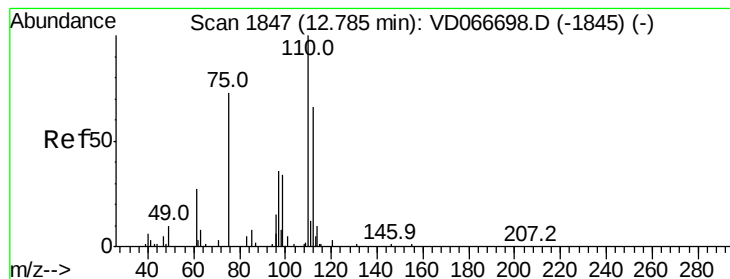
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 55.8  | 45.4  | 68.0  |
| 119     | 32.4  | 25.8  | 38.6  |



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.58 min Scan# 1982  
Delta R.T. -0.00 min  
Lab File: VD066719.D  
Acq: 16 Sep 2020 15:04

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 115     | 62.8  | 30.5  | 91.5  |
| 150     | 158.9 | 0.0   | 344.6 |





#76

1,2,3-Trichloropropane

Concen: 64.624 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. -0.15 min

Lab File: VD066719.D

Acq: 16 Sep 2020 15:04

Instrument :

MSVOA\_D

ClientSampleId :

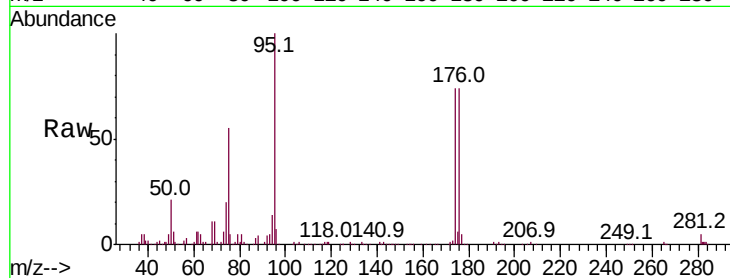
ETGI-362

Tot Ion: 75 Resp: 149912

Ion Ratio Lower Upper

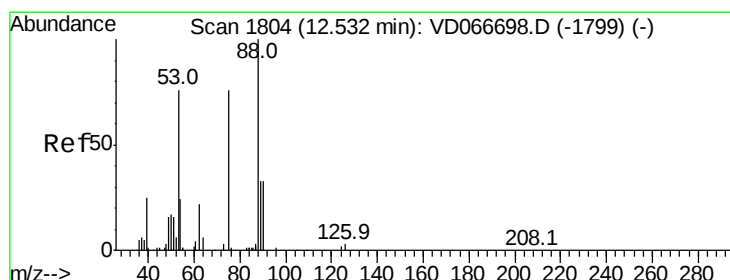
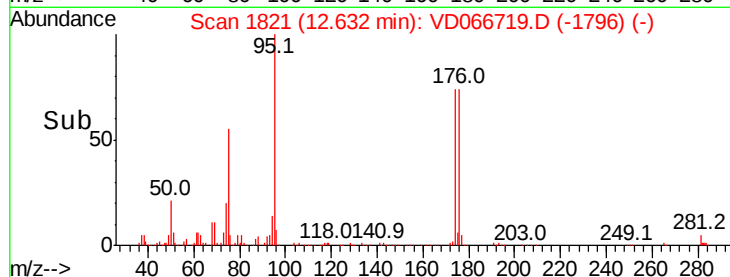
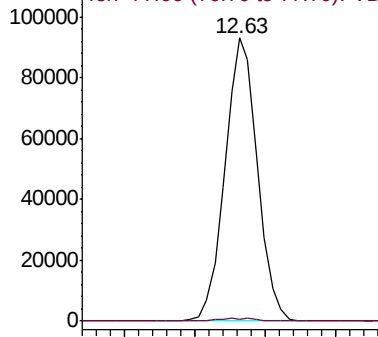
75 100

77 1.2 0.0 0.0#



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: 139.470 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. 0.10 min

Lab File: VD066719.D

Acq: 16 Sep 2020 15:04

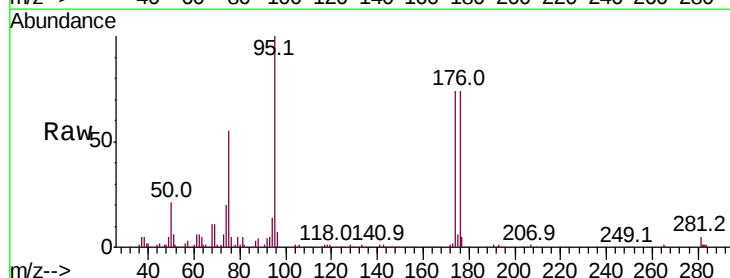
Tgt Ion: 75 Resp: 149912

Ion Ratio Lower Upper

75 100

53 0.1 82.2 123.4#

89 0.1 39.6 59.4#



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

