

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD092820\  
 Data File : VD066924.D  
 Acq On : 28 Sep 2020 20:13  
 Operator : VA/SY  
 Sample : L4155-04  
 Misc : 5.74G/5.00ml/MSVOA D/SOIL  
 ALS Vial : 22 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 FK-GF-02-061-B

Quant Time: Sep 29 00:59:22 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D092220S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Sep 23 01:34:05 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.98  | 168  | 383798   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.86  | 114  | 688129   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.64 | 117  | 717723   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.58 | 152  | 345178   | 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   | 210199   | 55.96  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 111.92% |          |
| 35) Dibromofluoromethane    | 7.91  | 113  | 225686   | 51.55  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 103.10% |          |
| 50) Toluene-d8              | 10.34 | 98   | 842995   | 56.52  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 113.04% |          |
| 62) 4-Bromofluorobenzene    | 12.63 | 95   | 307780   | 60.27  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 120.54% |          |

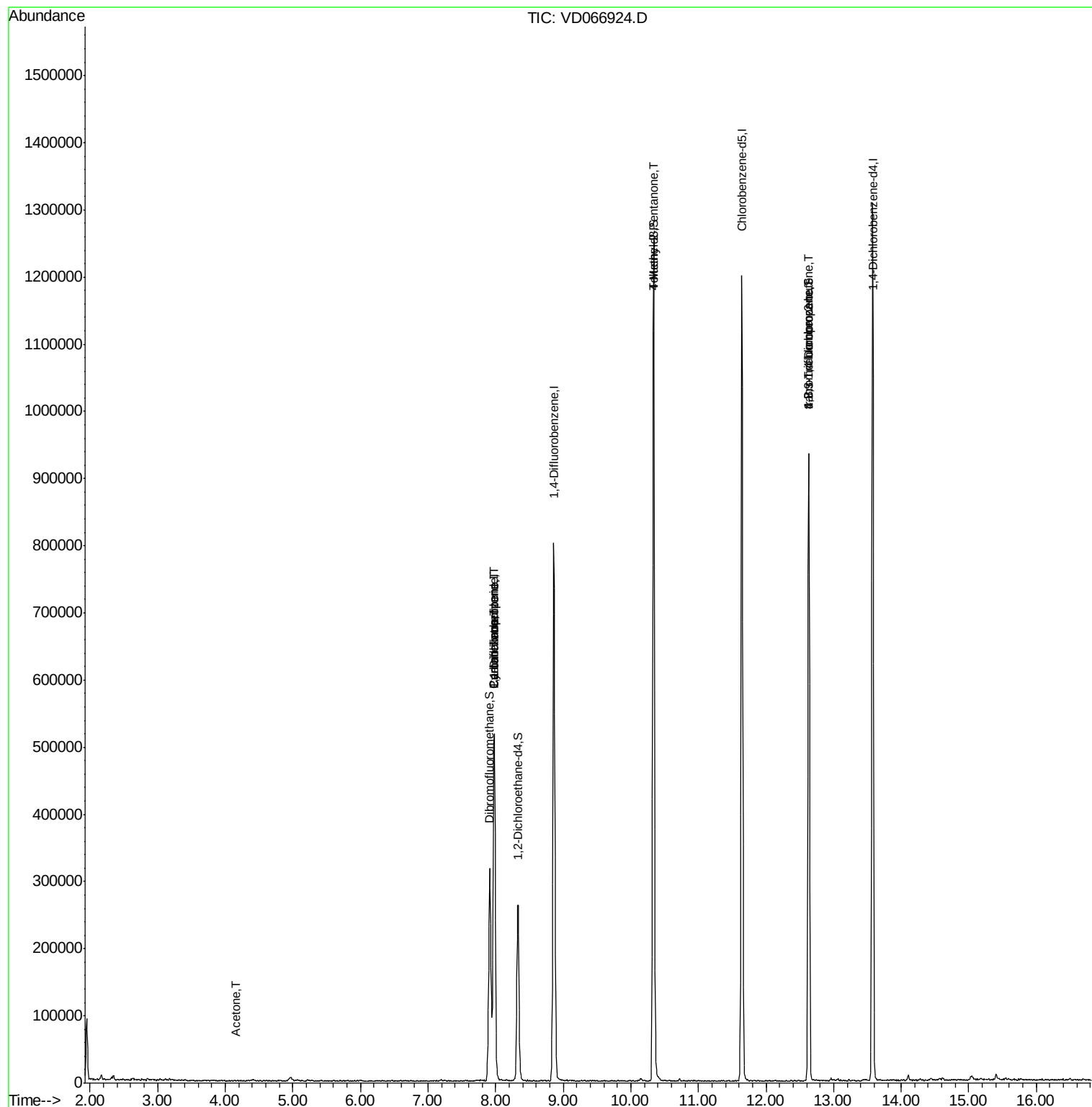
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 11) Tert butyl alcohol         | 5.21  | 59   | 860      | Below Cal | #      | 72     |
| 16) Acetone                    | 4.17  | 43   | 1146     | 1.438     | ug/l   | 96     |
| 18) Methyl Acetate             | 4.89  | 43   | 62       | Below Cal | #      | 50     |
| 20) Methylene Chloride         | 4.96  | 84   | 3978     | Below Cal | #      | 67     |
| 31) Cyclohexane                | 7.98  | 56   | 8765     | 1.283     | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 7.97  | 75   | 31019    | 4.544     | ug/l # | 51     |
| 38) Carbon Tetrachloride       | 7.98  | 117  | 40517    | 5.429     | ug/l # | 19     |
| 51) 4-Methyl-2-Pentanone       | 10.34 | 43   | 3223     | 1.337     | ug/l # | 1      |
| 76) 1,2,3-Trichloropropane     | 12.63 | 75   | 155319   | 54.297    | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.63 | 75   | 155319   | 135.845   | ug/l # | 10     |

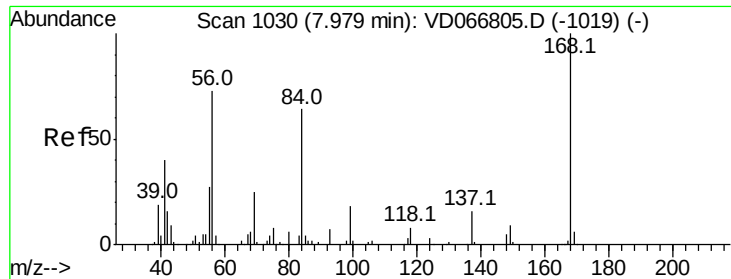
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260  
QLast Update : Wed Sep 23 01:34:05 2020  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. 0.00 min

Lab File: VD066924.D

Acq: 28 Sep 2020 20:13

Instrument :

MSVOA\_D

ClientSampleId :

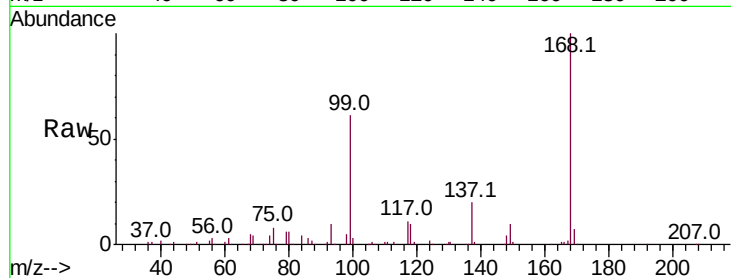
FK-GF-02-061-B

Tot Ion:168 Resp: 383798

Ion Ratio Lower Upper

168 100

99 60.8 46.6 69.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC

7.98

150000

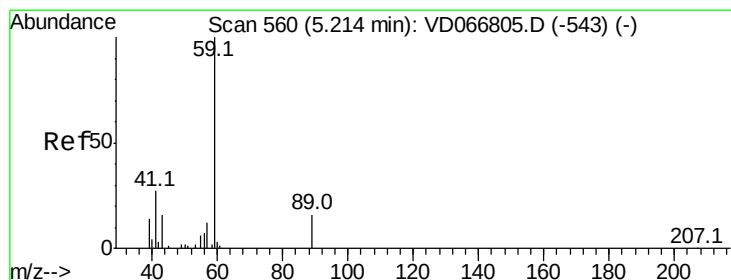
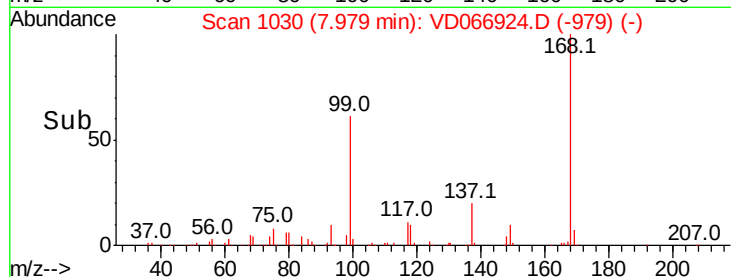
100000

50000

0

Time-->

7.90 8.00 8.10



#11

Tert butyl alcohol

Concen: Below Cal

RT: 5.21 min Scan# 560

Delta R.T. 0.00 min

Lab File: VD066924.D

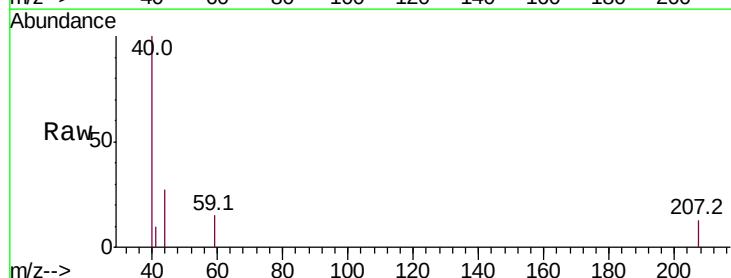
Acq: 28 Sep 2020 20:13

Tgt Ion: 59 Resp: 860

Ion Ratio Lower Upper

59 100

57 0.0 8.3 12.5#



Abundance Ion 59.00 (58.70 to 59.70): VDC

Ion 57.00 (56.70 to 57.70): VDC

5.21

400

300

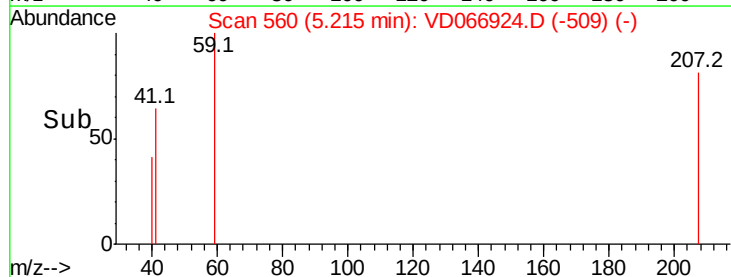
200

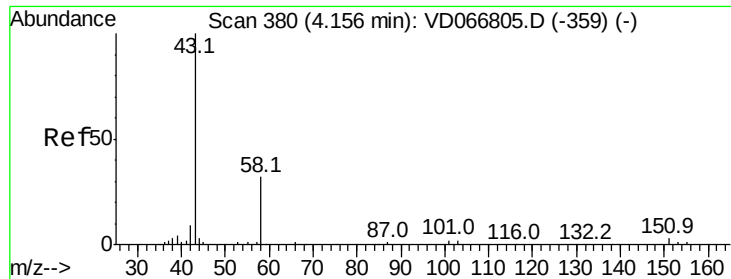
100

0

Time-->

5.20 5.25





#16

Acetone

Concen: 1.438 ug/l

RT: 4.17 min Scan# 382

Delta R.T. 0.01 min

Lab File: VD066924.D

Acq: 28 Sep 2020 20:13

Instrument :

MSVOA\_D

ClientSampleId :

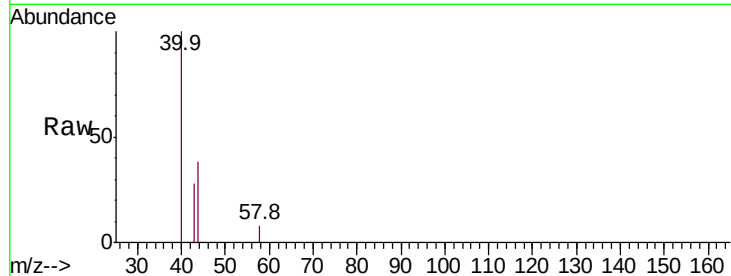
FK-GF-02-061-B

Tot Ion: 43 Resp: 1146

Ion Ratio Lower Upper

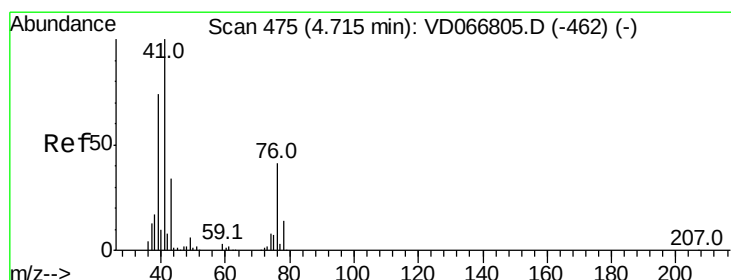
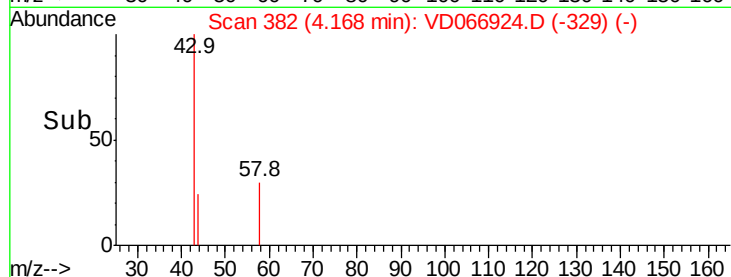
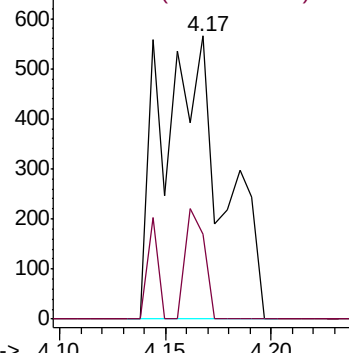
43 100

58 29.9 25.6 38.4



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: 4.89 min Scan# 504

Delta R.T. 0.17 min

Lab File: VD066924.D

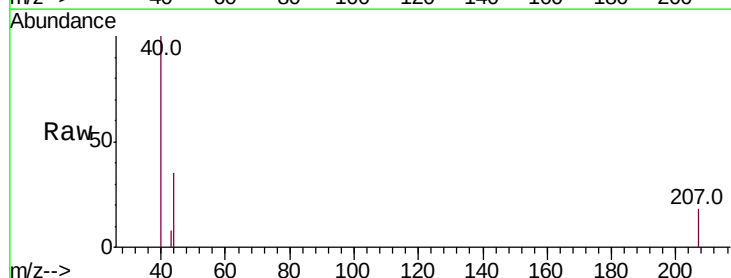
Acq: 28 Sep 2020 20:13

Tgt Ion: 43 Resp: 62

Ion Ratio Lower Upper

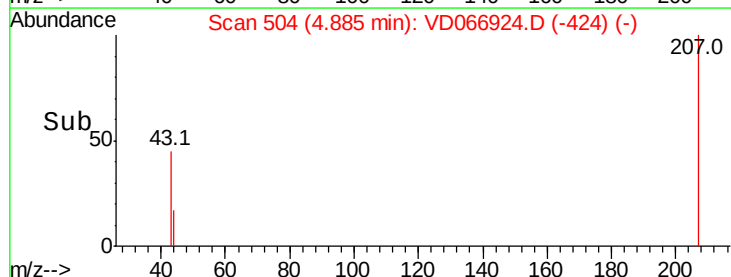
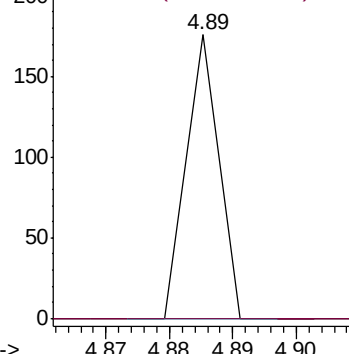
43 100

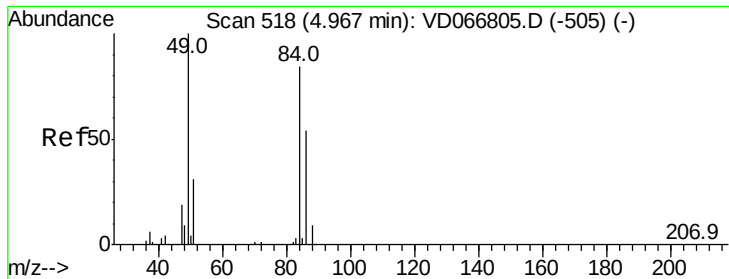
74 0.0 20.3 30.5#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 74.00 (73.70 to 74.70): VDC





#20

Methylene Chloride

Concen: Below Cal

RT: 4.96 min Scan# 517

Delta R.T. -0.01 min

Lab File: VD066924.D

Acq: 28 Sep 2020 20:13

Instrument :

MSVOA\_D

ClientSampleId :

FK-GF-02-061-B

Tot Ion: 84 Resp: 3978

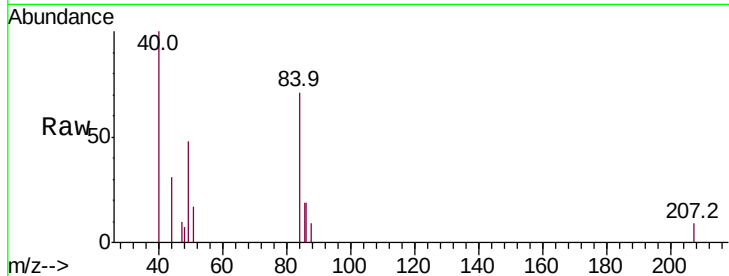
Ion Ratio Lower Upper

84 100

49 67.3 95.4 143.2#

51 23.4 29.7 44.5#

86 52.9 51.4 77.2

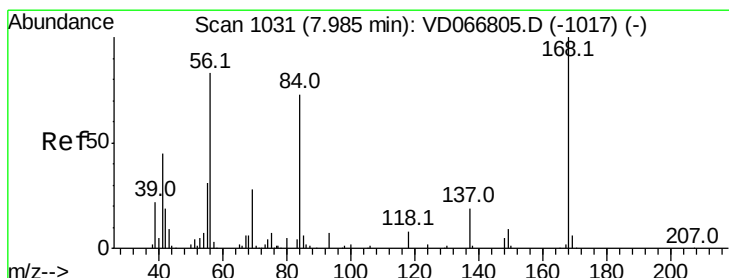
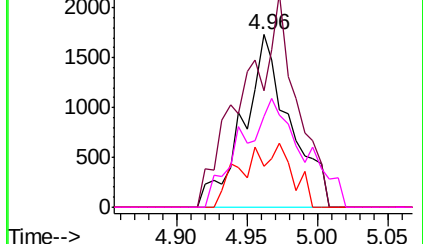
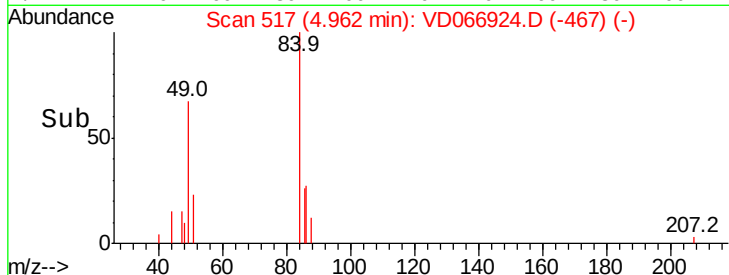


Abundance Ion 83.90 (83.60 to 84.60): VDC

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: 1.283 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.01 min

Lab File: VD066924.D

Acq: 28 Sep 2020 20:13

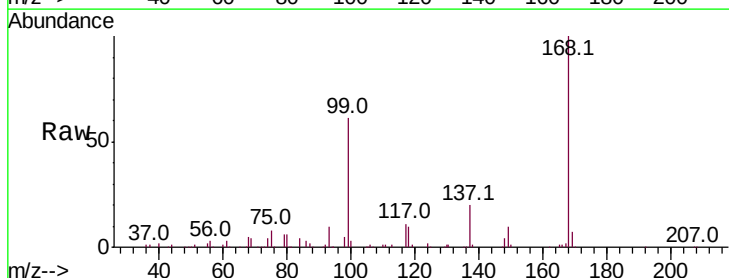
Tgt Ion: 56 Resp: 8765

Ion Ratio Lower Upper

56 100

69 143.0 27.0 40.4#

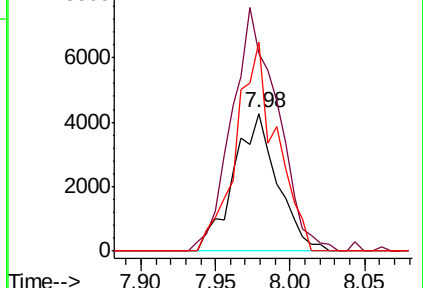
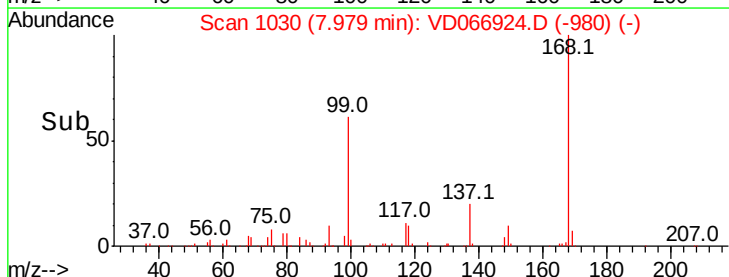
84 151.6 70.2 105.4#

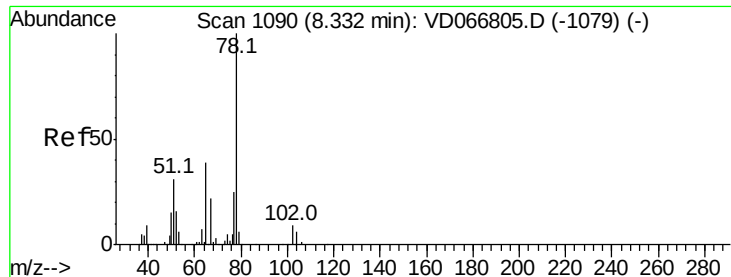


Abundance Ion 56.00 (55.70 to 56.70): VDC

Ion 69.00 (68.70 to 69.70): VDC

Ion 84.00 (83.70 to 84.70): VDC





#33

1,2-Dichloroethane-d4

Concen: 55.957 ug/l

RT: 8.33 min Scan# 1089

Delta R.T. -0.01 min

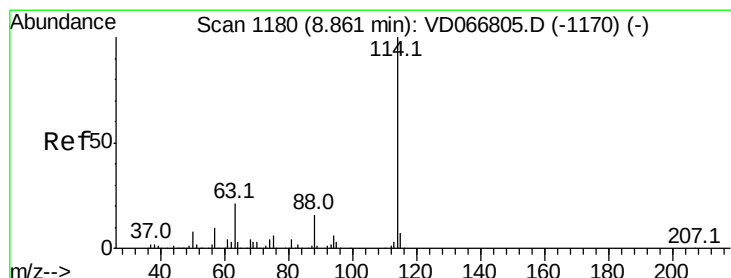
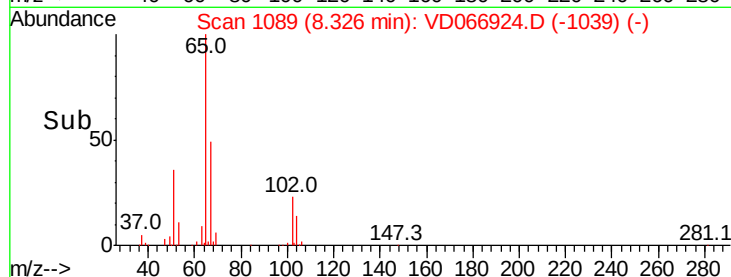
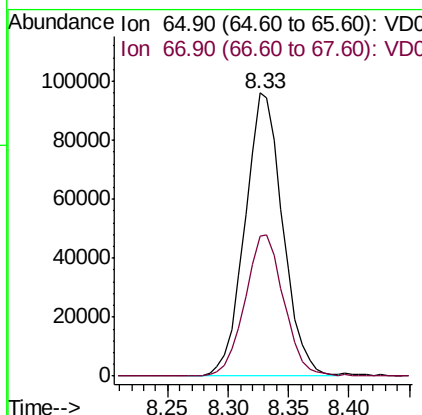
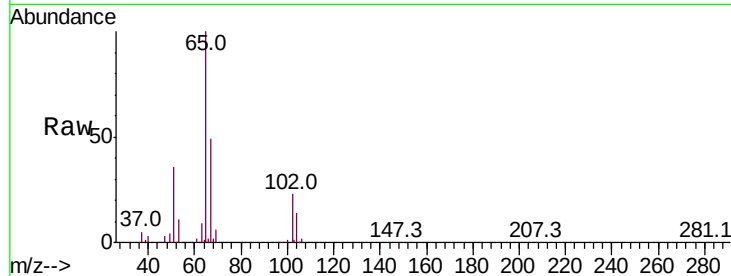
Lab File: VD066924.D

Acq: 28 Sep 2020 20:13

Instrument :  
MSVOA\_D  
ClientSampleId :  
FK-GF-02-061-B

Tot Ion: 65 Resp: 210199

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 65  | 100   |       |       |
| 67  | 51.3  | 0.0   | 107.2 |



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.86 min Scan# 1180

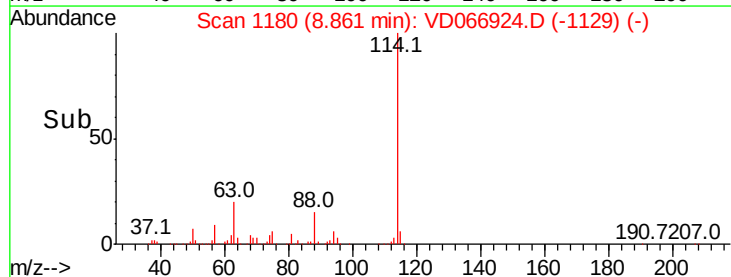
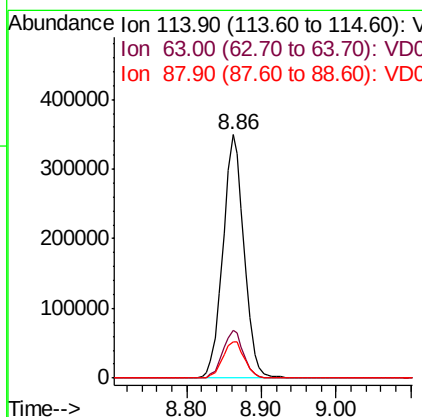
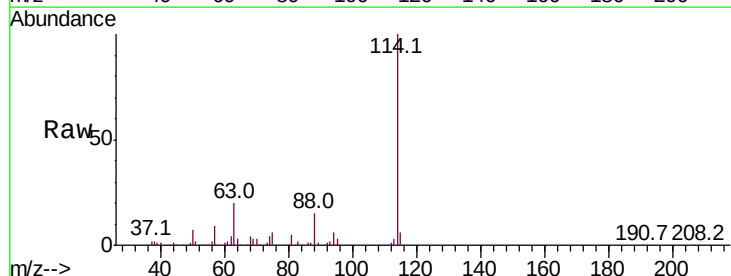
Delta R.T. 0.00 min

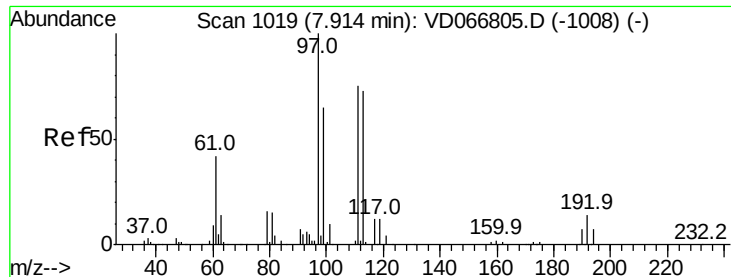
Lab File: VD066924.D

Acq: 28 Sep 2020 20:13

Tgt Ion: 114 Resp: 688129

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 114 | 100   |       |       |
| 63  | 19.9  | 0.0   | 42.6  |
| 88  | 14.7  | 0.0   | 32.6  |

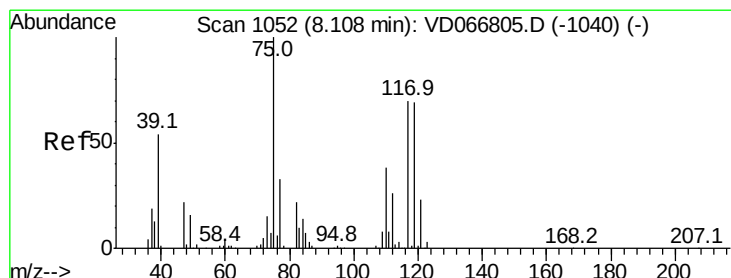
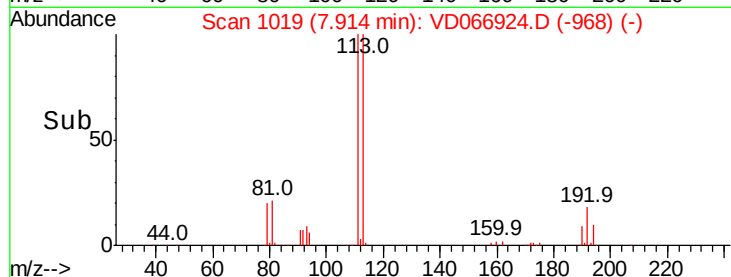
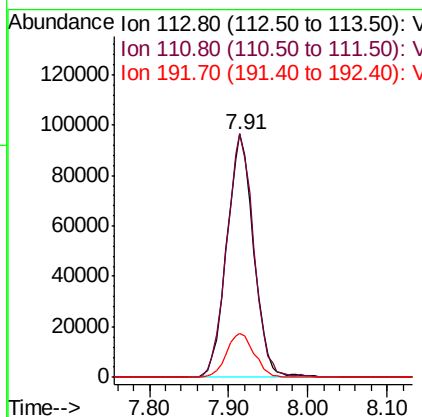
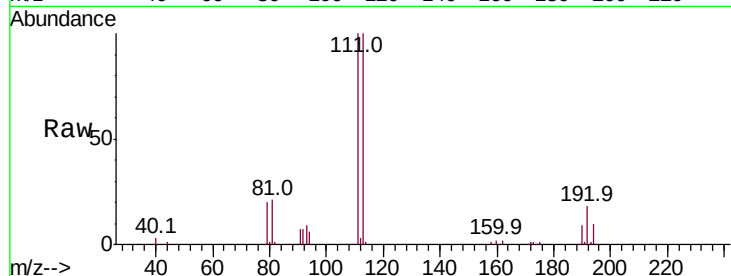




#35  
 Dibromofluoromethane  
 Concen: 51.551 ug/l  
 RT: 7.91 min Scan# 1019  
 Delta R.T. 0.00 min  
 Lab File: VD066924.D  
 Acq: 28 Sep 2020 20:13

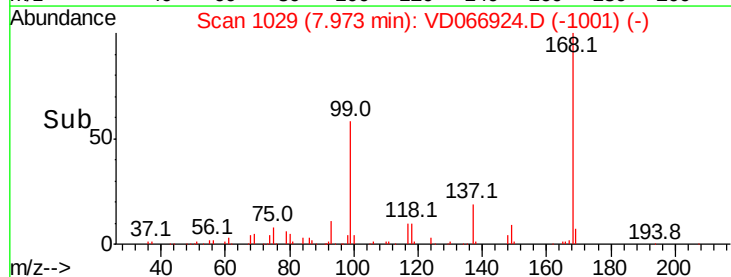
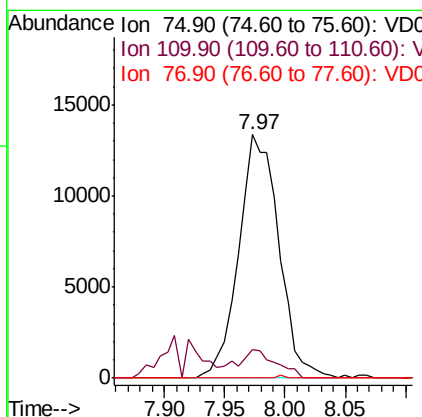
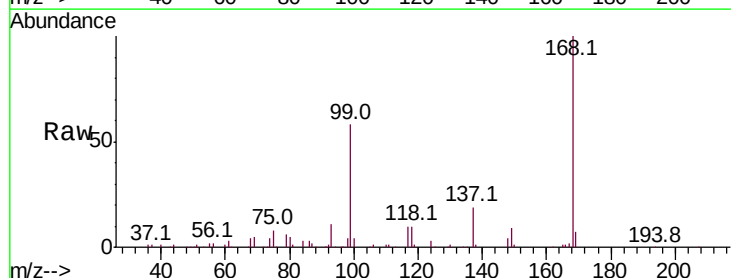
Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 FK-GF-02-061-B

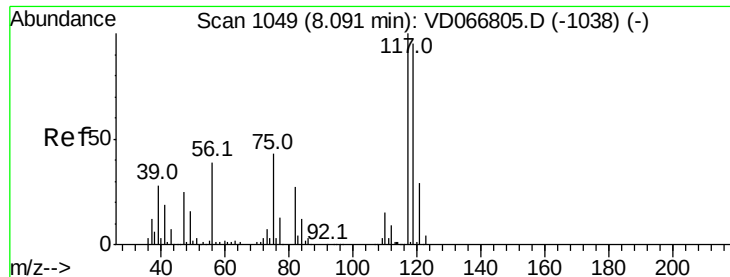
Tot Ion:113 Resp: 225686  
 Ion Ratio Lower Upper  
 113 100  
 111 100.9 81.8 122.8  
 192 18.7 14.4 21.6



#36  
 1,1-Dichloropropene  
 Concen: 4.544 ug/l  
 RT: 7.97 min Scan# 1029  
 Delta R.T. -0.14 min  
 Lab File: VD066924.D  
 Acq: 28 Sep 2020 20:13

Tgt Ion: 75 Resp: 31019  
 Ion Ratio Lower Upper  
 75 100  
 110 10.7 17.9 53.8#  
 77 0.0 25.0 37.6#





#38

Carbon Tetrachloride

Concen: 5.429 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.11 min

Lab File: VD066924.D

Acq: 28 Sep 2020 20:13

Instrument :

MSVOA\_D

ClientSampleId :

FK-GF-02-061-B

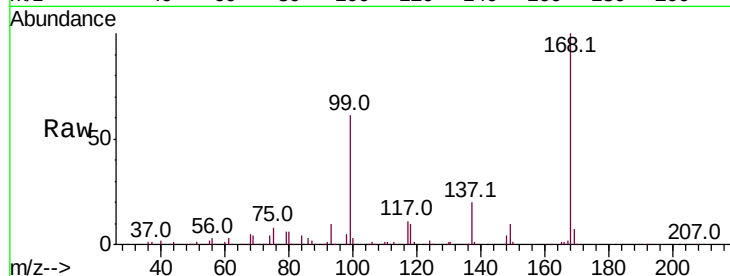
Tot Ion:117 Resp: 40517

Ion Ratio Lower Upper

117 100

119 8.6 75.8 113.8#

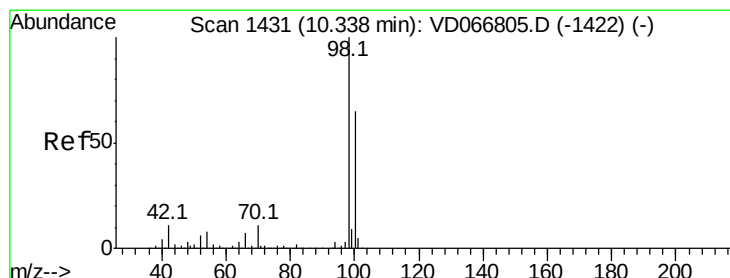
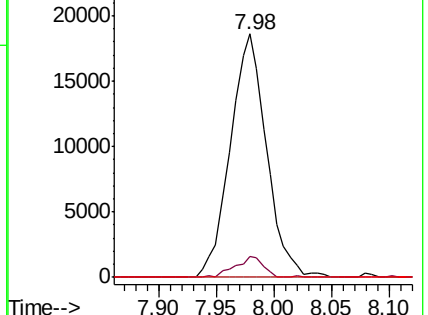
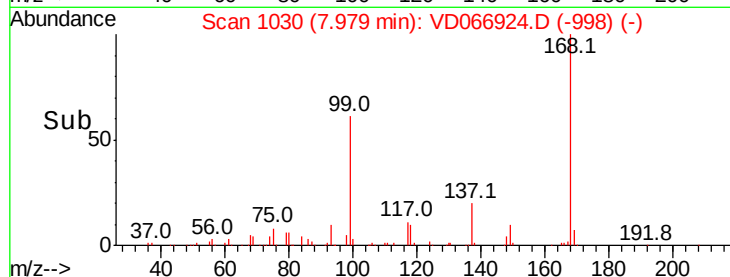
121 0.0 23.4 35.0#



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: 56.515 ug/l

RT: 10.34 min Scan# 1431

Delta R.T. 0.00 min

Lab File: VD066924.D

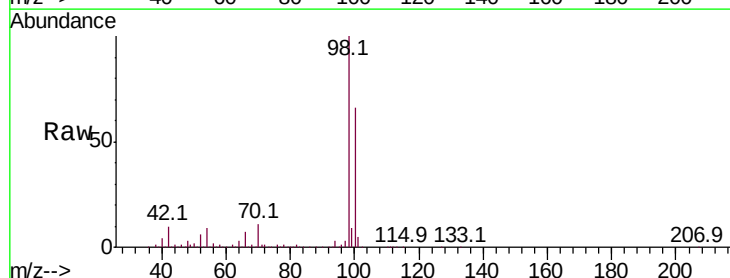
Acq: 28 Sep 2020 20:13

Tgt Ion: 98 Resp: 842995

Ion Ratio Lower Upper

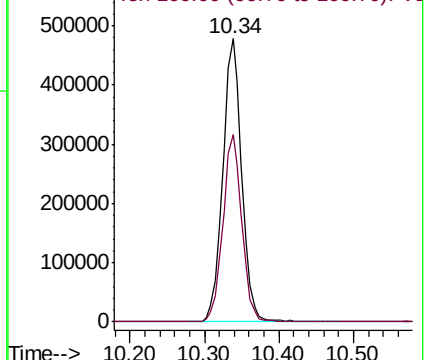
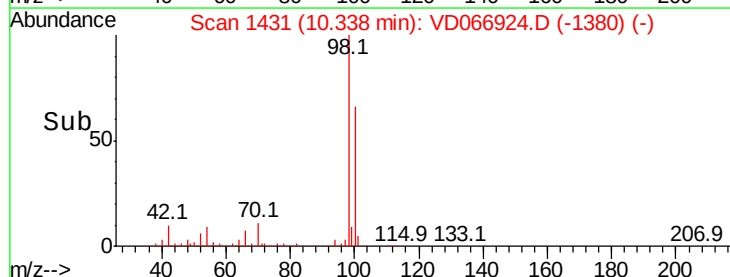
98 100

100 65.8 52.2 78.2

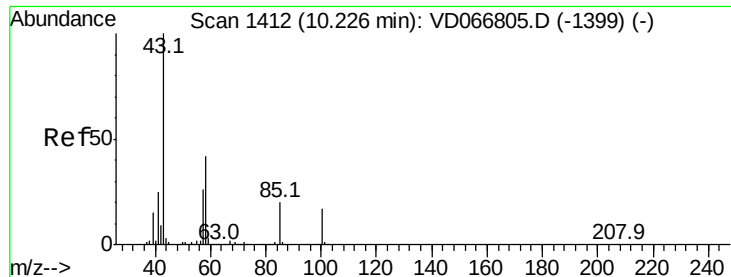


Abundance Ion 98.00 (97.70 to 98.70): V

Ion 100.00 (99.70 to 100.70): V



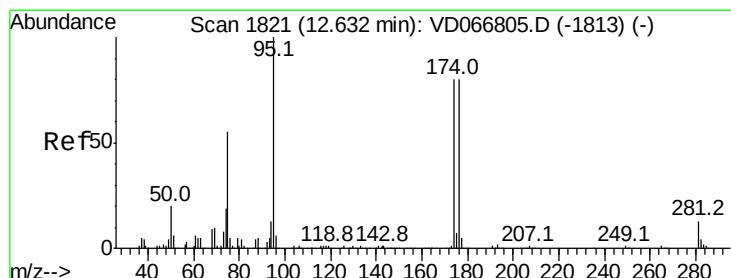
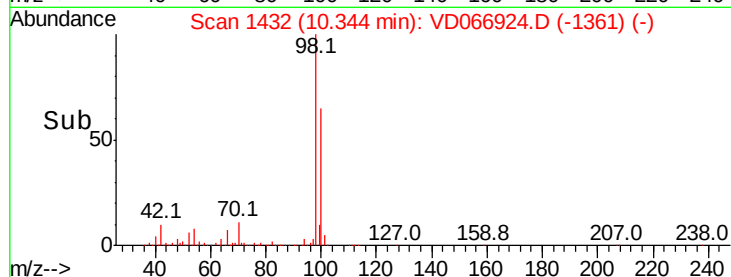
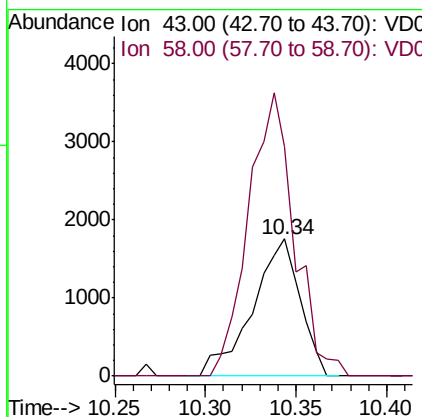
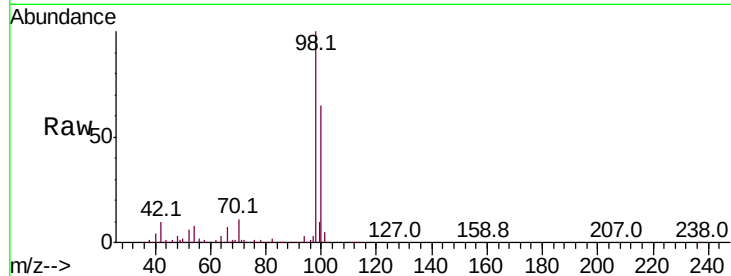




#51  
4-Methyl-2-Pentanone  
Concen: 1.337 ug/l  
RT: 10.34 min Scan# 1432  
Delta R.T. 0.12 min  
Lab File: VD066924.D  
Acq: 28 Sep 2020 20:13

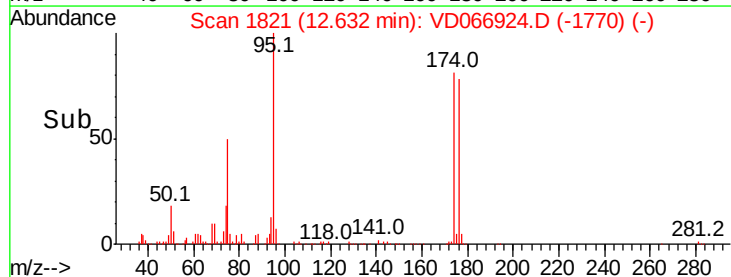
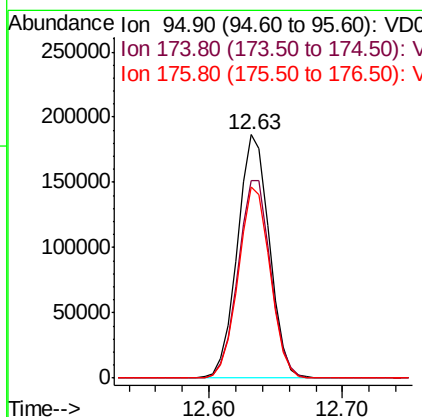
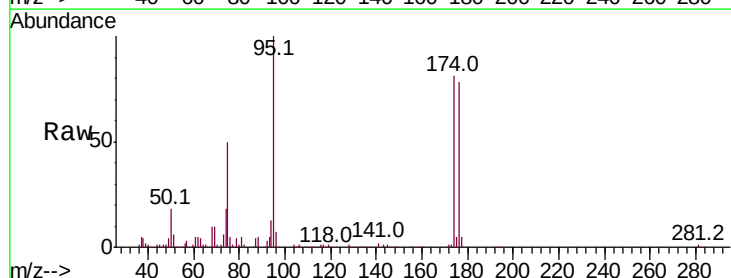
Instrument :  
MSVOA\_D  
ClientSampleId :  
FK-GF-02-061-B

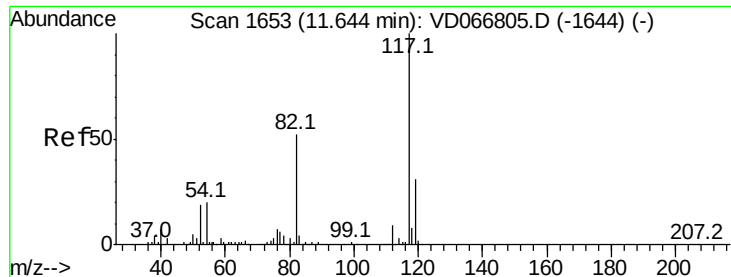
Tot Ion: 43 Resp: 3223  
Ion Ratio Lower Upper  
43 100  
58 198.5 32.2 48.4#



#62  
4-Bromofluorobenzene  
Concen: 60.274 ug/l  
RT: 12.63 min Scan# 1821  
Delta R.T. 0.00 min  
Lab File: VD066924.D  
Acq: 28 Sep 2020 20:13

Tgt Ion: 95 Resp: 307780  
Ion Ratio Lower Upper  
95 100  
174 82.9 0.0 159.8  
176 78.3 0.0 154.4

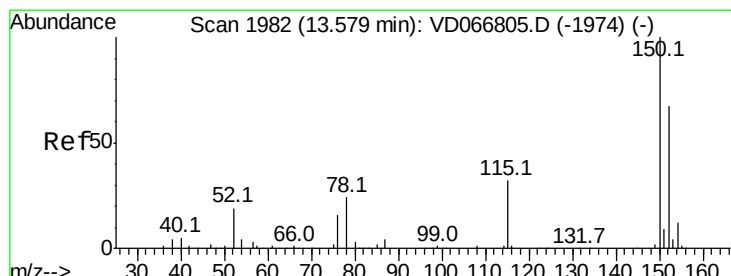
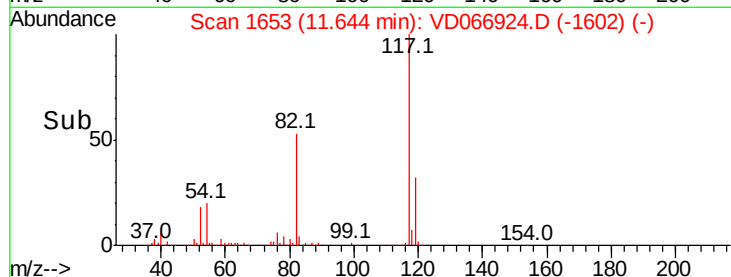
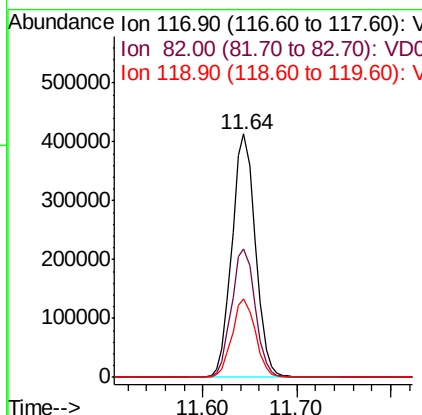
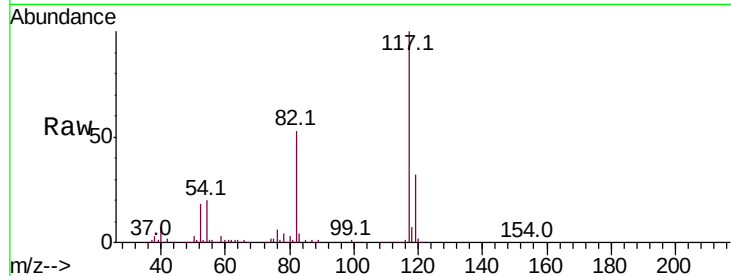




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.64 min Scan# 1653  
Delta R.T. 0.00 min  
Lab File: VD066924.D  
Acq: 28 Sep 2020 20:13

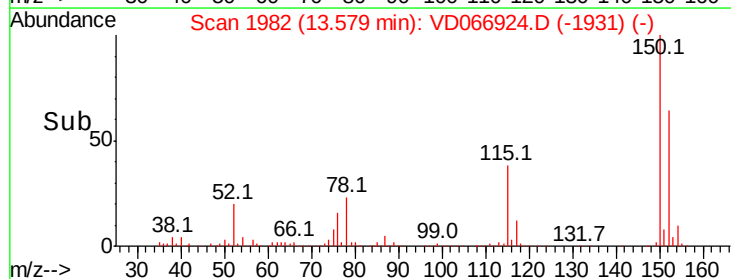
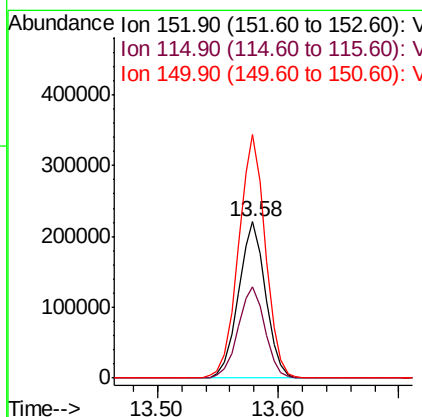
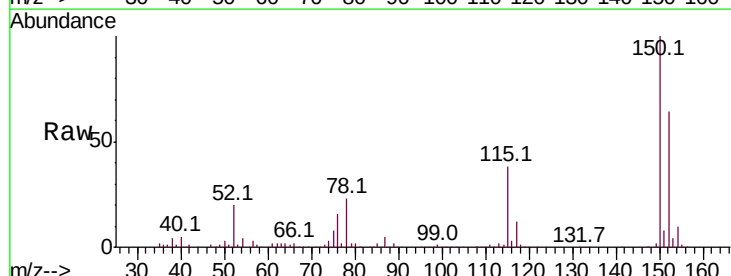
Instrument :  
MSVOA\_D  
ClientSampleId :  
FK-GF-02-061-B

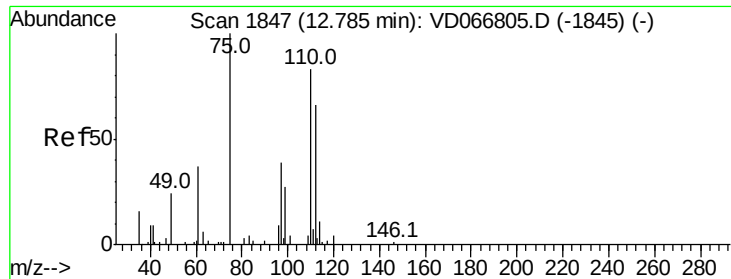
Tot Ion:117 Resp: 717723  
Ion Ratio Lower Upper  
117 100  
82 52.8 41.8 62.6  
119 32.1 24.6 37.0



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.58 min Scan# 1982  
Delta R.T. 0.00 min  
Lab File: VD066924.D  
Acq: 28 Sep 2020 20:13

Tgt Ion:152 Resp: 345178  
Ion Ratio Lower Upper  
152 100  
115 58.3 30.3 91.0  
150 154.3 0.0 346.2





#76

1,2,3-Trichloropropane

Concen: 54.297 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. -0.15 min

Lab File: VD066924.D

Acq: 28 Sep 2020 20:13

Instrument :

MSVOA\_D

ClientSampleId :

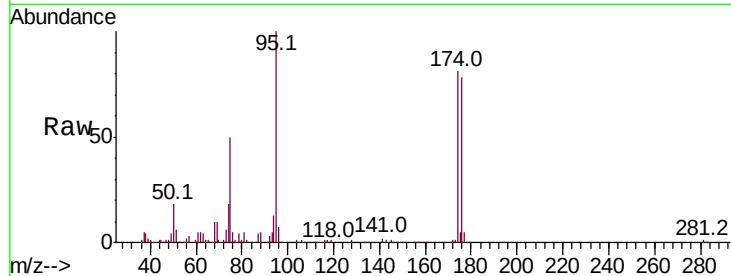
FK-GF-02-061-B

Tot Ion: 75 Resp: 155319

Ion Ratio Lower Upper

75 100

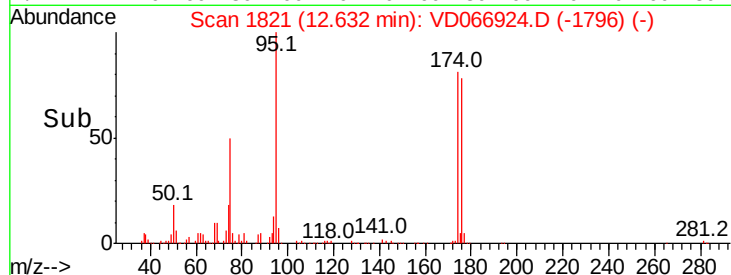
77 0.9 0.0 0.0#



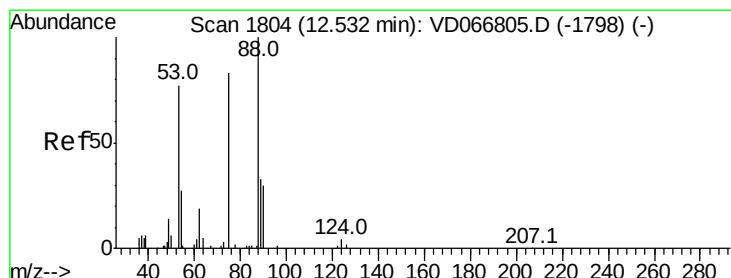
Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 77.00 (76.70 to 77.70): VDC

12.63



Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 135.845 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. 0.10 min

Lab File: VD066924.D

Acq: 28 Sep 2020 20:13

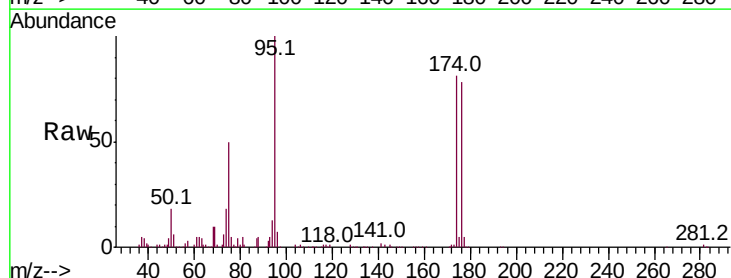
Tgt Ion: 75 Resp: 155319

Ion Ratio Lower Upper

75 100

53 0.1 78.5 117.7#

89 0.1 38.1 57.1#

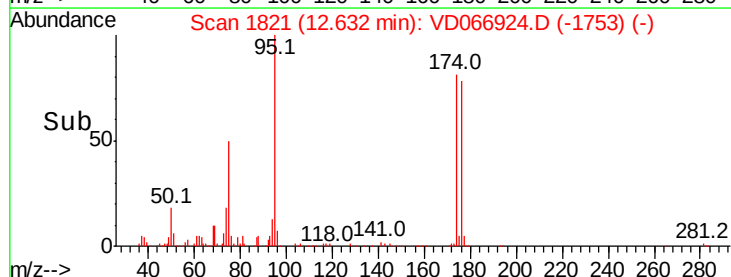
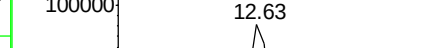


Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 88.90 (88.60 to 89.60): VDC

12.63



Time-->