

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD092220\  
 Data File : VD066816.D  
 Acq On : 22 Sep 2020 17:40  
 Operator : VA/SY  
 Sample : L4099-03  
 Misc : 6.21G/5.00ml/MSVOA D/SOIL  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 036

Quant Time: Sep 23 02:09:22 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  | 379740   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.86  | 114  | 702289   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.64 | 117  | 683833   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.58 | 152  | 303238   | 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   | 219146   | 58.96 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 117.92% |          |
| 35) Dibromofluoromethane    | 7.91  | 113  | 228208   | 51.08 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 102.16% |          |
| 50) Toluene-d8              | 10.34 | 98   | 855778   | 56.22 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 112.44% |          |
| 62) 4-Bromofluorobenzene    | 12.63 | 95   | 291373   | 55.91 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 111.82% |          |

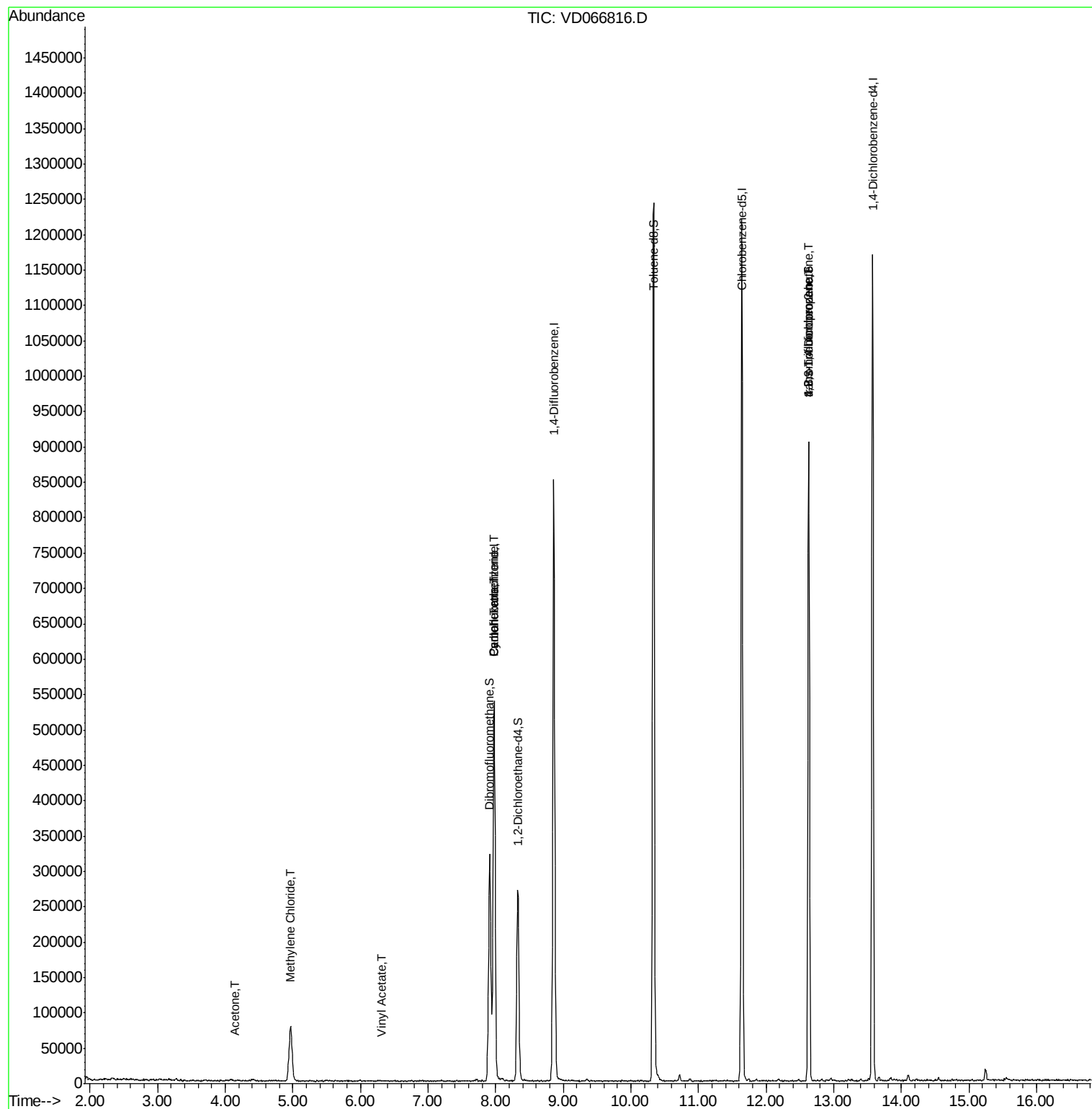
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 2) Dichlorodifluoromethane     | 1.99  | 85   | 664      | Below Cal | #      | 46     |
| 16) Acetone                    | 4.16  | 43   | 808      | 1.025     | ug/l # | 43     |
| 18) Methyl Acetate             | 4.82  | 43   | 56       | Below Cal | #      | 50     |
| 20) Methylene Chloride         | 4.97  | 84   | 61611    | 9.798     | ug/l   | 96     |
| 23) Vinyl Acetate              | 6.31  | 43   | 122      | 2.692     | ug/l # | 71     |
| 31) Cyclohexane                | 7.97  | 56   | 9816     | 1.453     | ug/l # | 1      |
| 38) Carbon Tetrachloride       | 7.97  | 117  | 41005    | 5.383     | ug/l # | 17     |
| 76) 1,2,3-Trichloropropane     | 12.63 | 75   | 155088   | 61.714    | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.63 | 75   | 155088   | 154.404   | ug/l # | 10     |

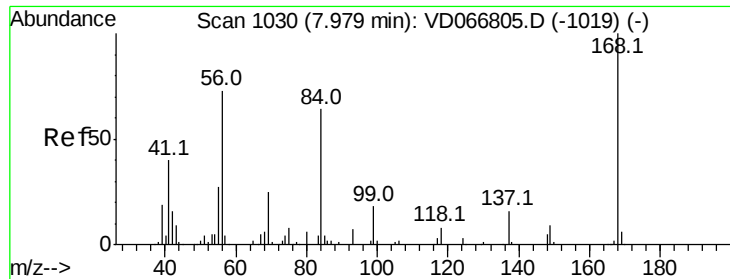
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD092220\  
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036

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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: VD066816.D

Acq: 22 Sep 2020 17:40

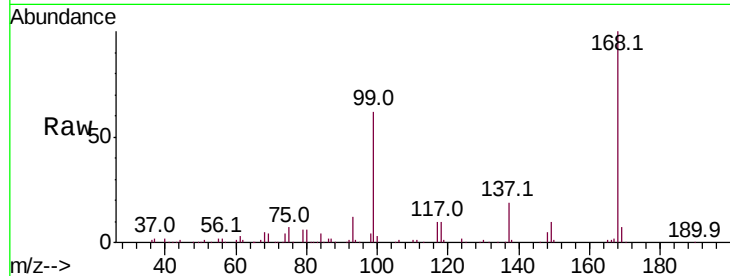
Instrument :  
MSVOA\_D  
ClientSampled :  
036

Tot Ion:168 Resp: 379740

Ion Ratio Lower Upper

168 100

99 61.4 46.6 69.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC

200000

150000

100000

50000

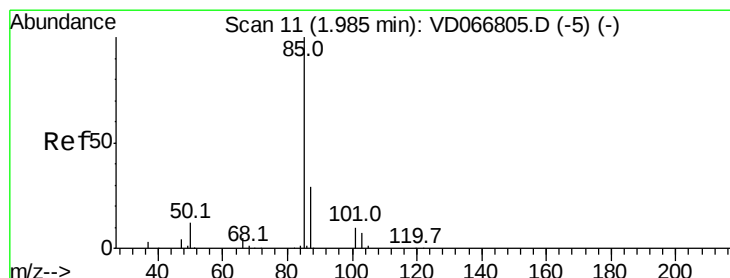
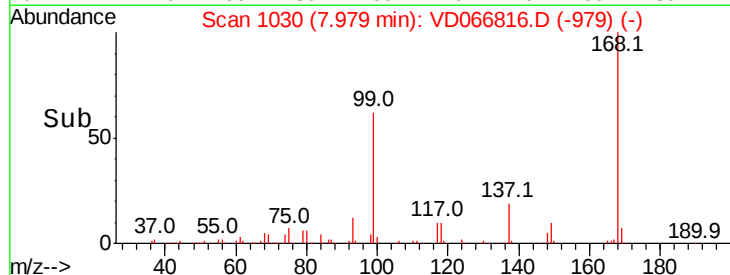
0

7.90

8.00

8.10

Time-->



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.99 min Scan# 11

Delta R.T. 0.00 min

Lab File: VD066816.D

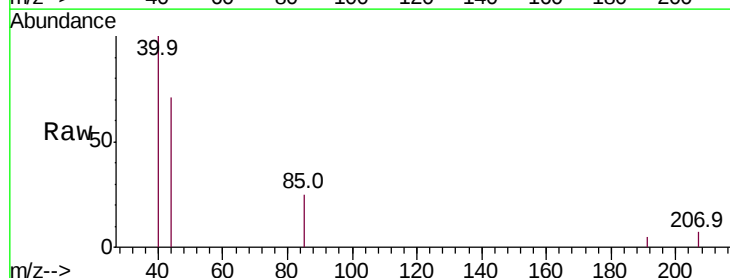
Acq: 22 Sep 2020 17:40

Tgt Ion: 85 Resp: 664

Ion Ratio Lower Upper

85 100

87 0.0 14.5 43.5#



Abundance Ion 84.90 (84.60 to 85.60): VDC

Ion 86.90 (86.60 to 87.60): VDC

800

600

400

200

0

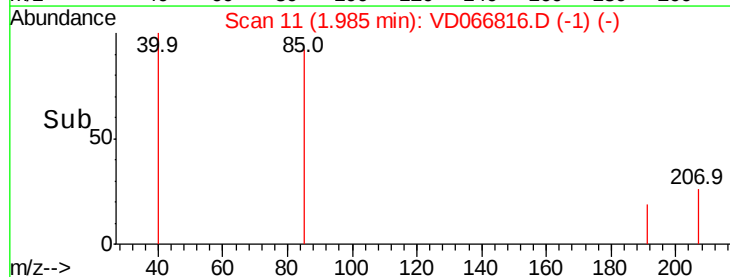
1.96

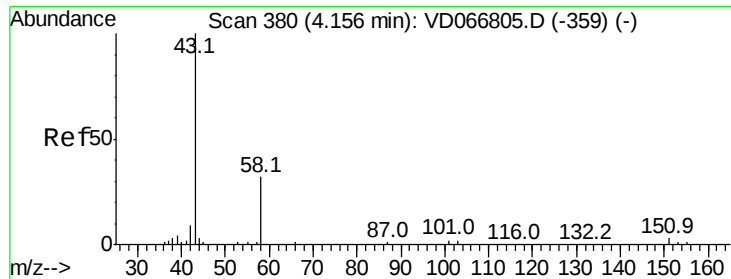
1.98

2.00

2.02

Time-->





#16

Acetone

Concen: 1.025 ug/l

RT: 4.16 min Scan# 380

Delta R.T. -0.00 min

Lab File: VD066816.D

Acq: 22 Sep 2020 17:40

Instrument :

MSVOA\_D

ClientSampled :

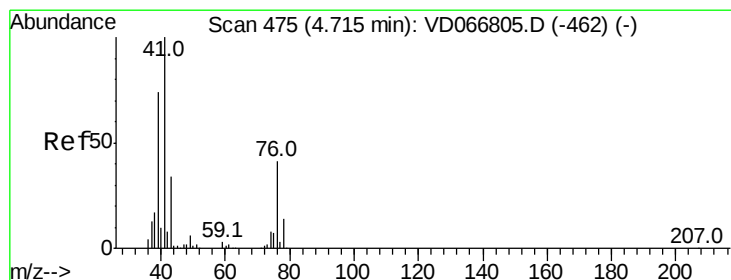
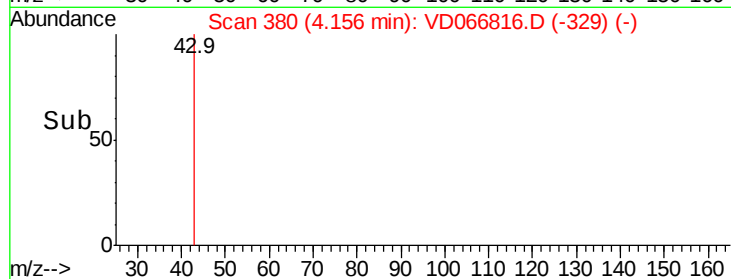
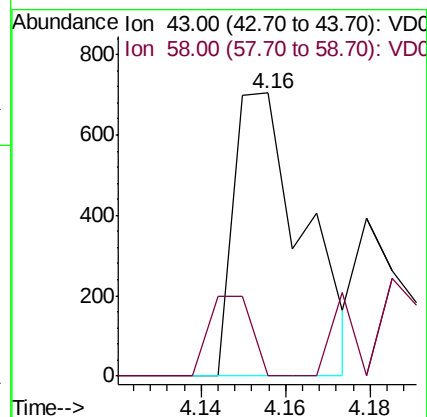
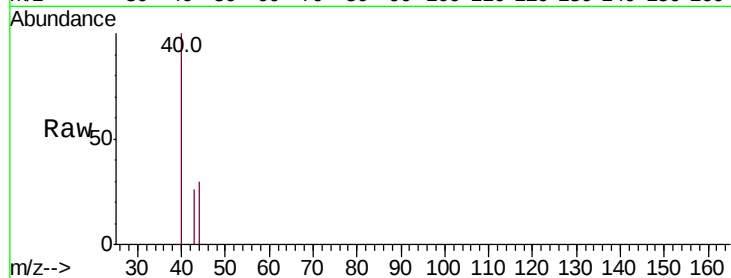
036

Tot Ion: 43 Resp: 808

Ion Ratio Lower Upper

43 100

58 0.0 25.6 38.4#



#18

Methyl Acetate

Concen: Below Cal

RT: 4.82 min Scan# 493

Delta R.T. 0.11 min

Lab File: VD066816.D

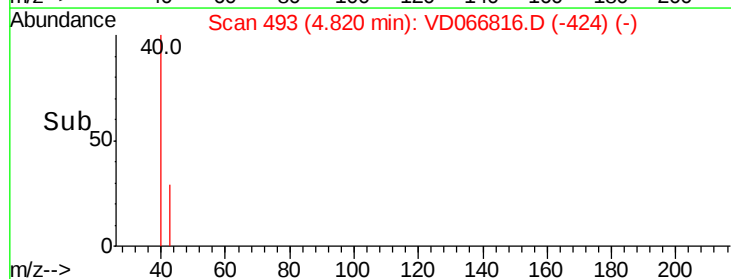
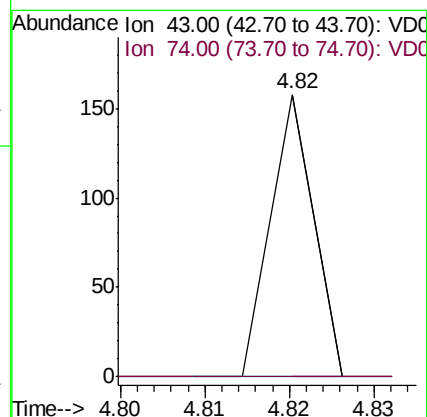
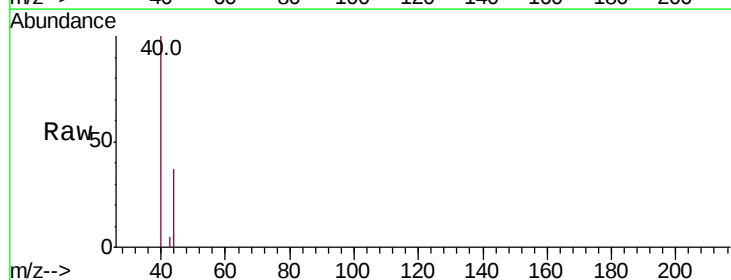
Acq: 22 Sep 2020 17:40

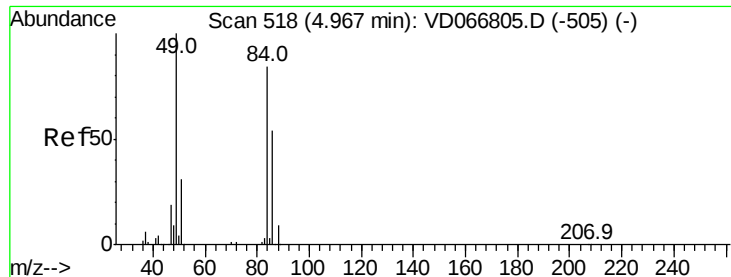
Tgt Ion: 43 Resp: 56

Ion Ratio Lower Upper

43 100

74 0.0 20.3 30.5#

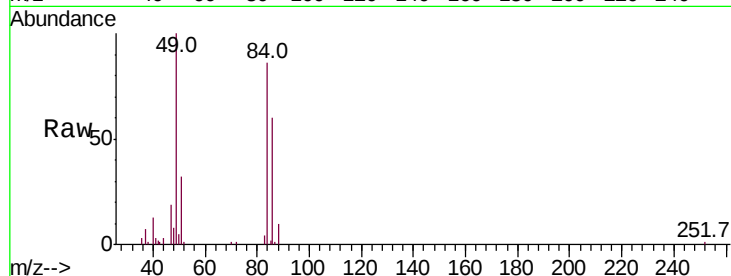




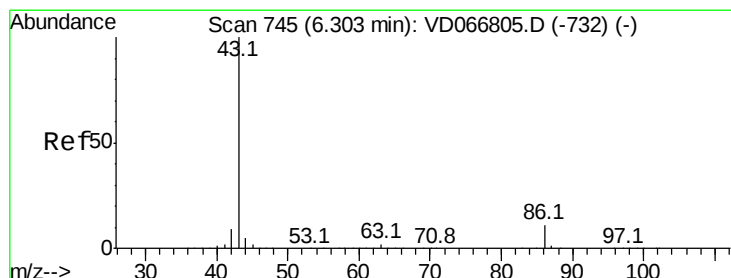
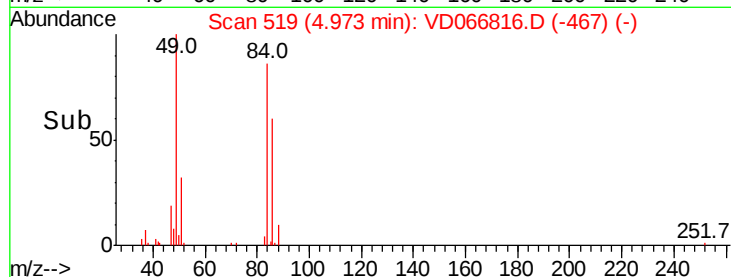
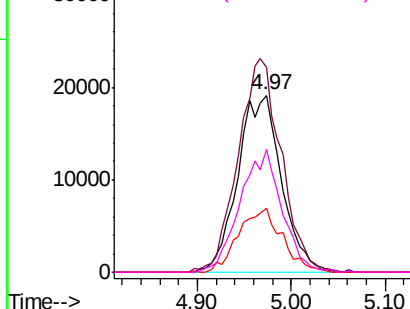
#20  
Methvlene Chloride  
Concen: 9.798 ug/l  
RT: 4.97 min Scan# 519  
Delta R.T. 0.01 min  
Lab File: VD066816.D  
Acq: 22 Sep 2020 17:40

Instrument :  
MSVOA\_D  
ClientSampleId :  
036

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 84    | Resp: | 61611 |
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 49       | 115.9 | 95.4  | 143.2 |
| 51       | 36.6  | 29.7  | 44.5  |
| 86       | 69.4  | 51.4  | 77.2  |

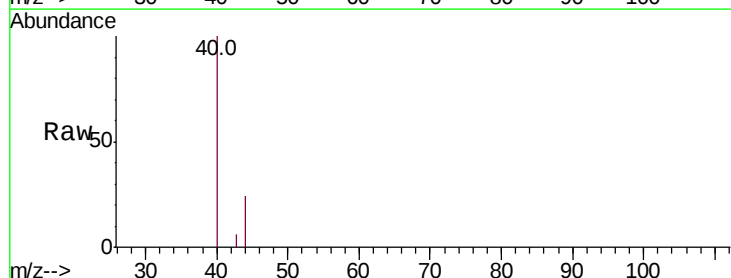


Abundance Ion 83.90 (83.60 to 84.60): VDC  
Ion 48.90 (48.60 to 49.60): VDC  
Ion 50.90 (50.60 to 51.60): VDC  
Ion 85.90 (85.60 to 86.60): VDC

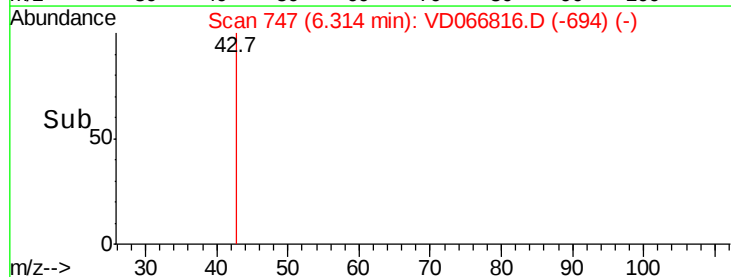
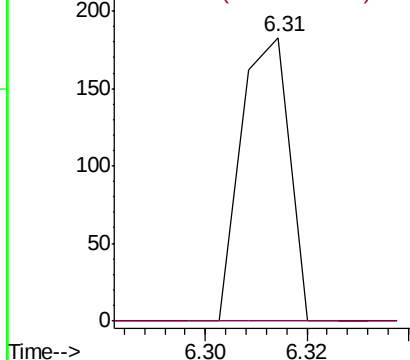


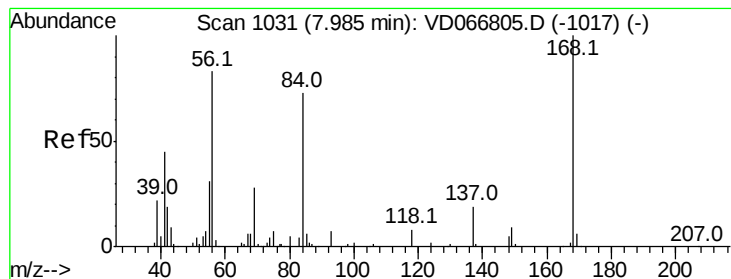
#23  
Vinyl Acetate  
Concen: 2.692 ug/l  
RT: 6.31 min Scan# 747  
Delta R.T. 0.01 min  
Lab File: VD066816.D  
Acq: 22 Sep 2020 17:40

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 122   |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 86       | 0.0   | 8.9   | 13.3# |



Abundance Ion 43.00 (42.70 to 43.70): VDC  
Ion 86.00 (85.70 to 86.70): VDC





#31

Cyclohexane

Concen: 1.453 ug/l

RT: 7.97 min Scan# 1029

Delta R.T. -0.01 min

Lab File: VD066816.D

Acq: 22 Sep 2020 17:40

Instrument :

MSVOA\_D

ClientSampleId :

036

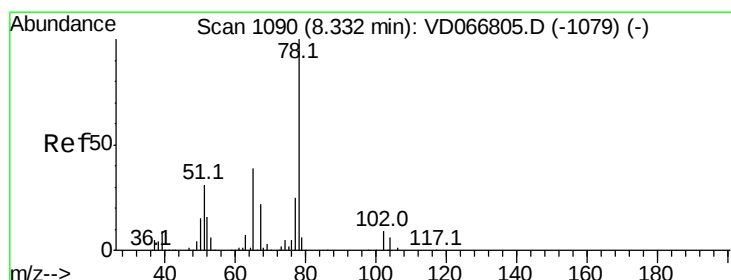
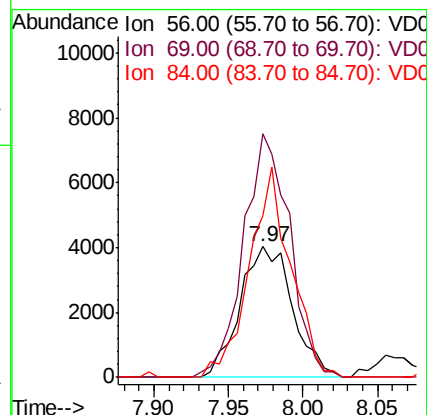
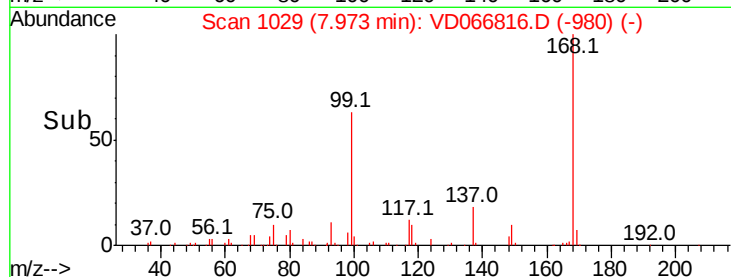
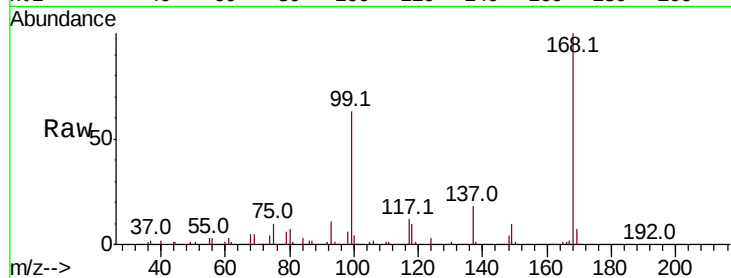
Tot Ion: 56 Resp: 9816

Ion Ratio Lower Upper

56 100

69 186.6 27.0 40.4#

84 124.0 70.2 105.4#



#33

1,2-Dichloroethane-d4

Concen: 58.962 ug/l

RT: 8.33 min Scan# 1089

Delta R.T. -0.01 min

Lab File: VD066816.D

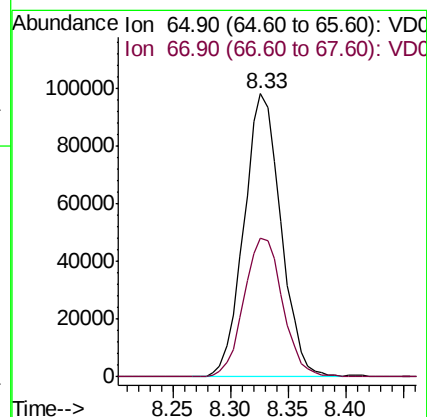
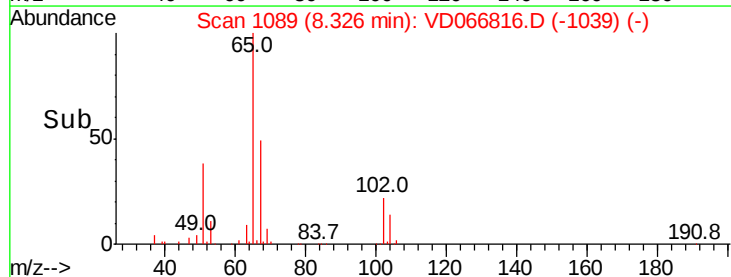
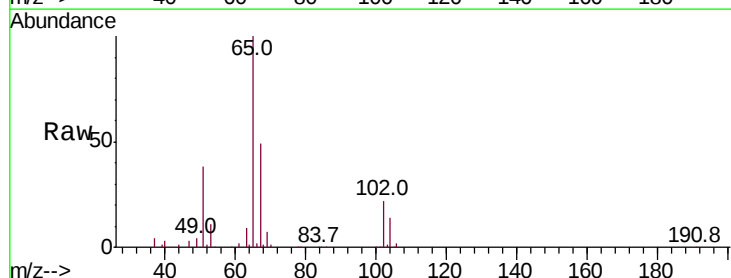
Acq: 22 Sep 2020 17:40

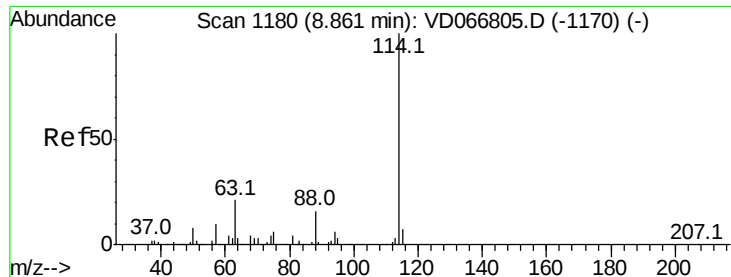
Tgt Ion: 65 Resp: 219146

Ion Ratio Lower Upper

65 100

67 51.5 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: VD066816.D

Acq: 22 Sep 2020 17:40

Instrument :

MSVOA\_D

ClientSampleId :

036

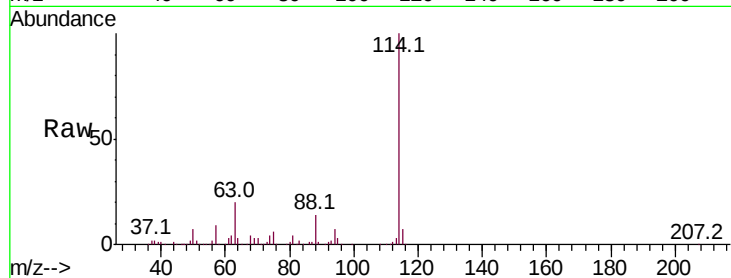
Tot Ion:114 Resp: 702289

Ion Ratio Lower Upper

114 100

63 19.6 0.0 42.6

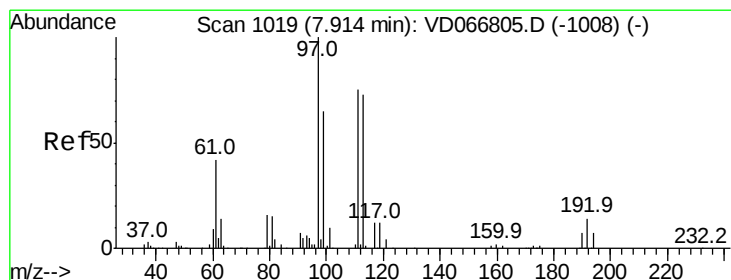
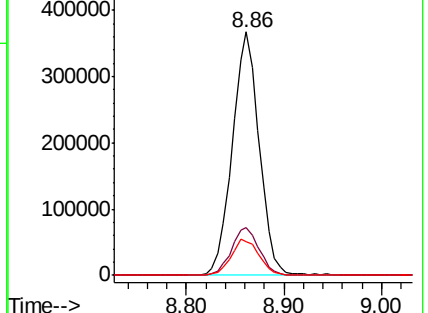
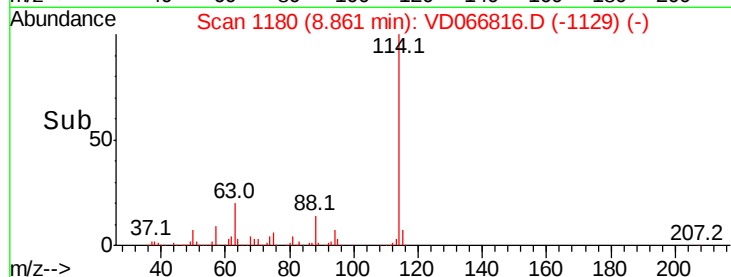
88 14.0 0.0 32.6



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: 51.077 ug/l

RT: 7.91 min Scan# 1019

Delta R.T. -0.00 min

Lab File: VD066816.D

Acq: 22 Sep 2020 17:40

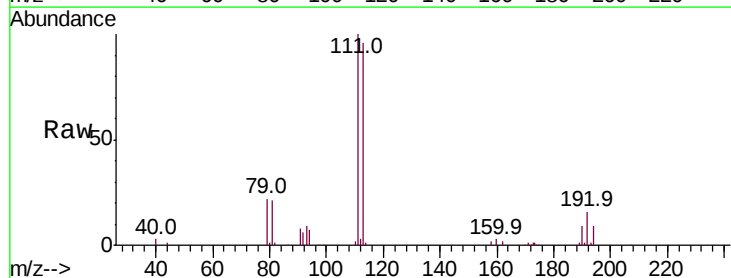
Tgt Ion:113 Resp: 228208

Ion Ratio Lower Upper

113 100

111 103.9 81.8 122.8

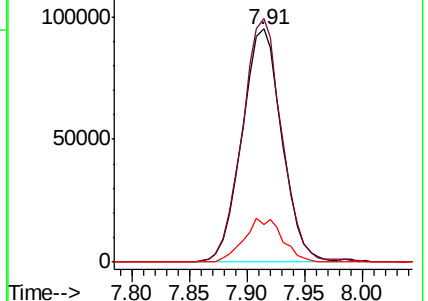
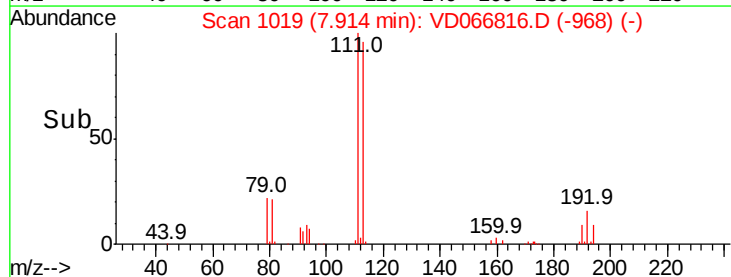
192 18.2 14.4 21.6

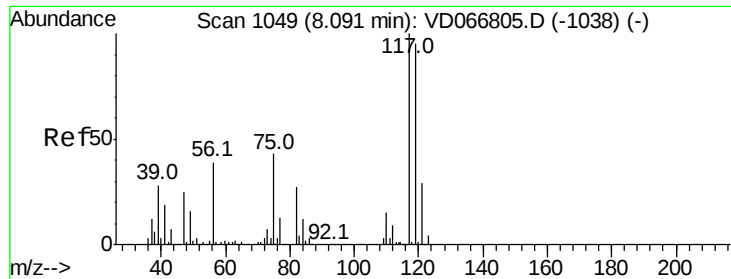


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#38

Carbon Tetrachloride

Concen: 5.383 ug/l

RT: 7.97 min Scan# 1029

Delta R.T. -0.12 min

Lab File: VD066816.D

Acq: 22 Sep 2020 17:40

Instrument :

MSVOA\_D

ClientSampleId :

036

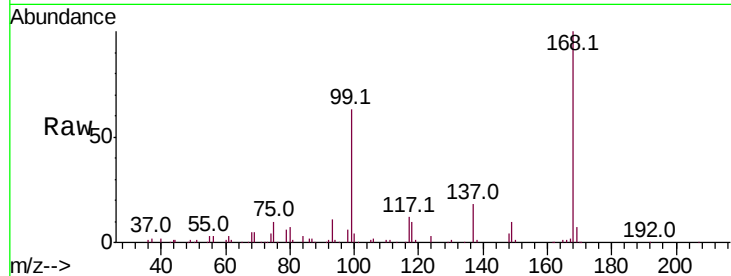
Tot Ion:117 Resp: 41005

Ion Ratio Lower Upper

117 100

119 6.0 75.8 113.8#

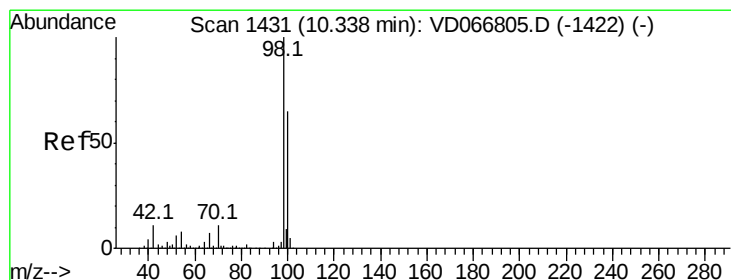
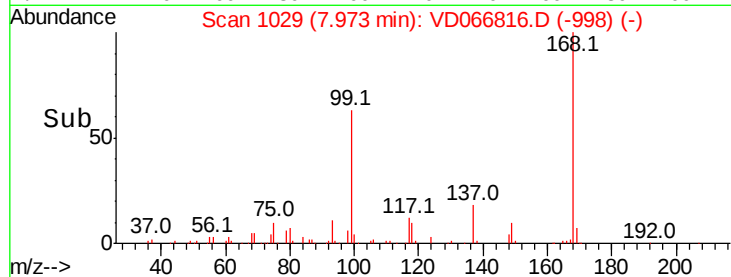
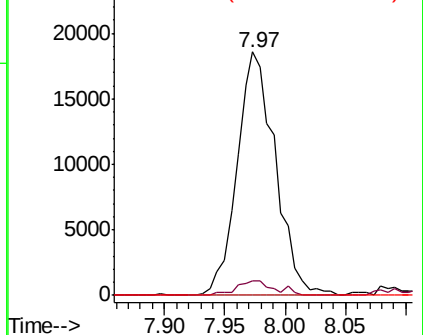
121 0.0 23.4 35.0#



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: 56.216 ug/l

RT: 10.34 min Scan# 1431

Delta R.T. -0.00 min

Lab File: VD066816.D

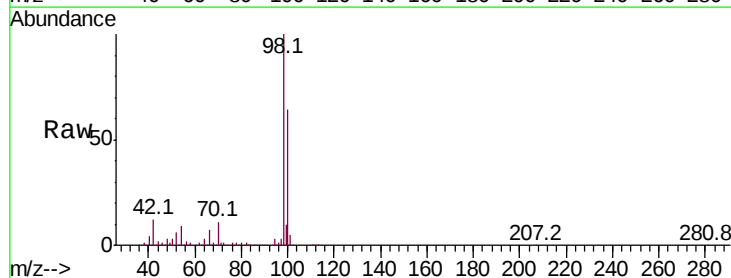
Acq: 22 Sep 2020 17:40

Tgt Ion: 98 Resp: 855778

Ion Ratio Lower Upper

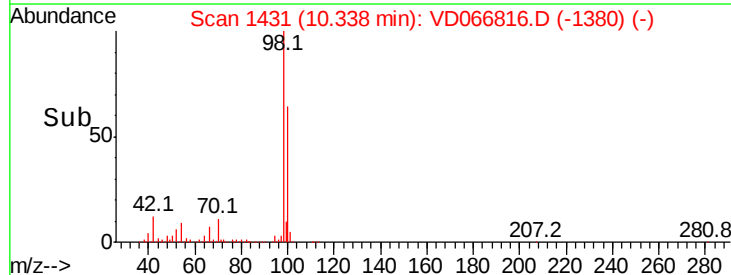
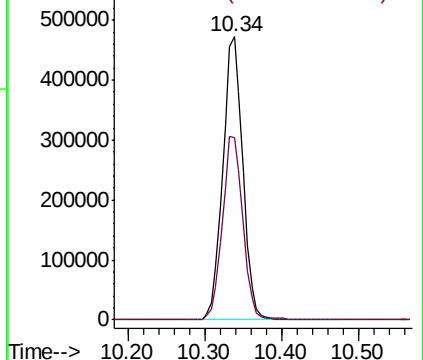
98 100

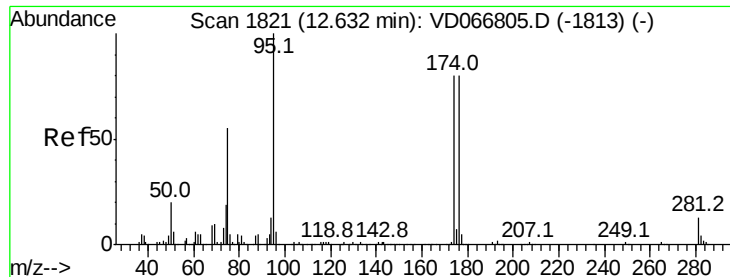
100 65.6 52.2 78.2



Abundance Ion 98.00 (97.70 to 98.70): V

Ion 100.00 (99.70 to 100.70): V





#62

4-Bromofluorobenzene

Concen: 55.911 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. -0.00 min

Lab File: VD066816.D

Acq: 22 Sep 2020 17:40

Instrument :

MSVOA\_D

ClientSampleId :

036

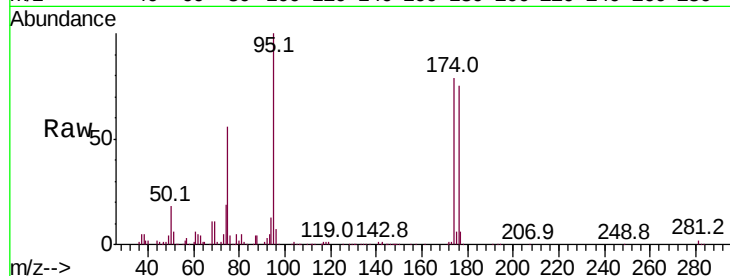
Tot Ion: 95 Resp: 291373

Ion Ratio Lower Upper

95 100

174 77.6 0.0 159.8

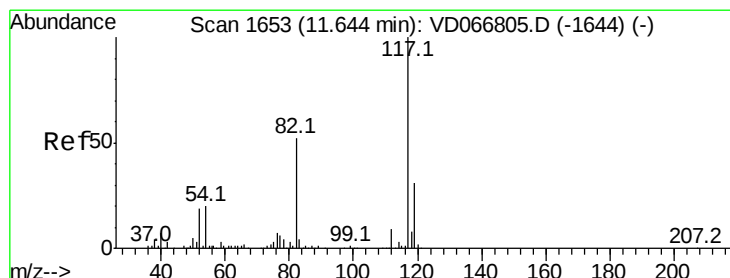
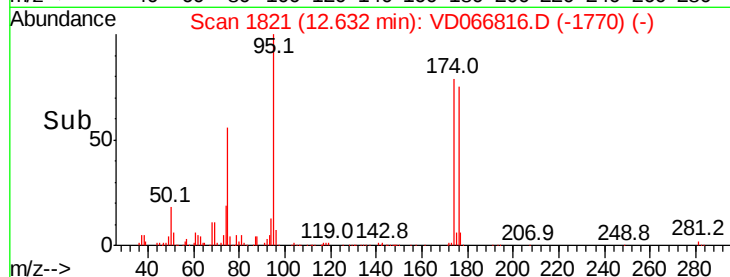
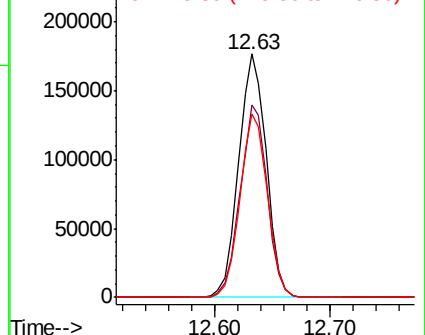
176 74.9 0.0 154.4



Abundance Ion 94.90 (94.60 to 95.60): V

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: 11.64 min Scan# 1653

Delta R.T. -0.00 min

Lab File: VD066816.D

Acq: 22 Sep 2020 17:40

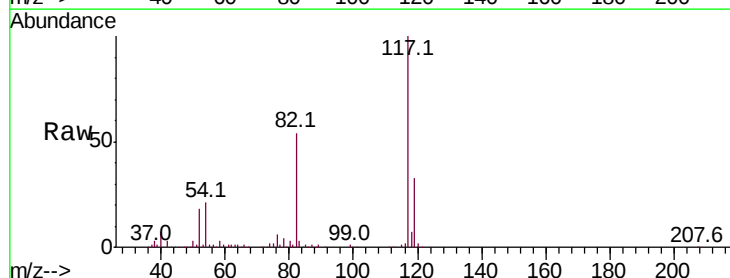
Tgt Ion: 117 Resp: 683833

Ion Ratio Lower Upper

117 100

82 54.4 41.8 62.6

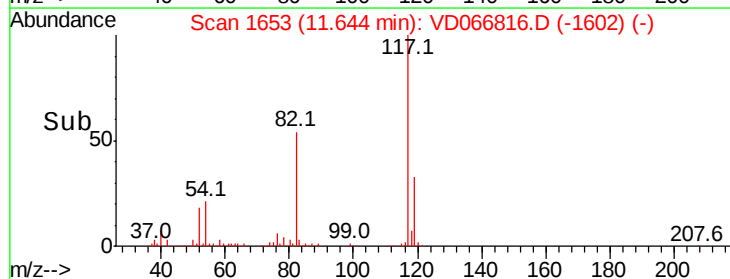
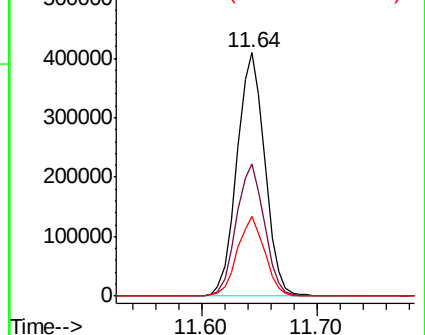
119 32.8 24.6 37.0

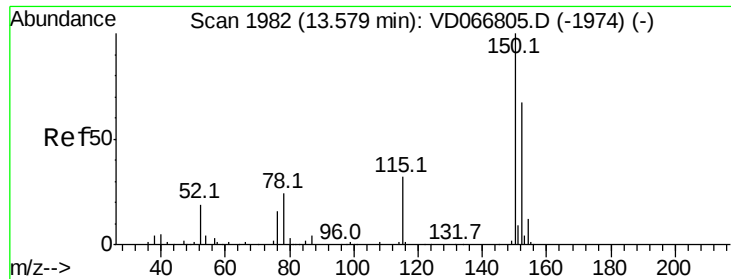


Abundance Ion 116.90 (116.60 to 117.60): V

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: VD066816.D

Acq: 22 Sep 2020 17:40

Instrument :

MSVOA\_D

ClientSampleId :

036

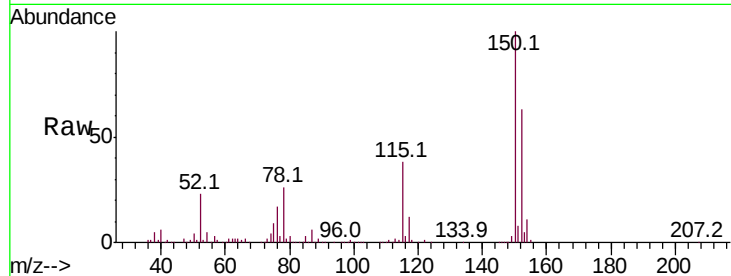
Tot Ion:152 Resp: 303238

Ion Ratio Lower Upper

152 100

115 60.6 30.3 91.0

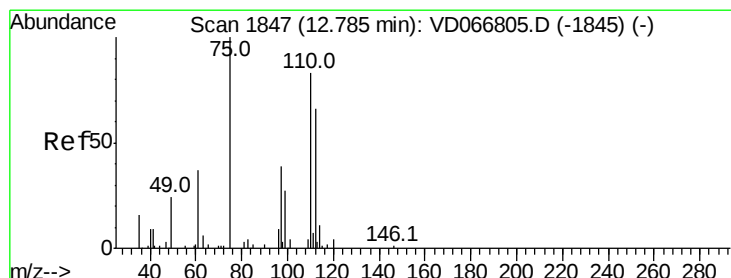
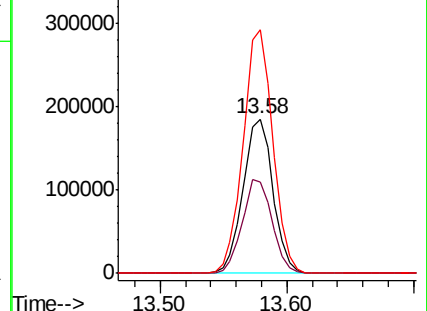
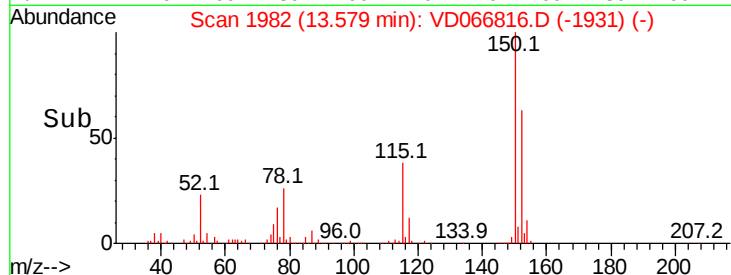
150 156.9 0.0 346.2



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: 61.714 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. -0.15 min

Lab File: VD066816.D

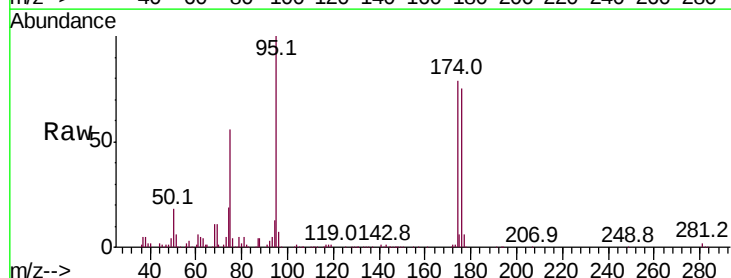
Acq: 22 Sep 2020 17:40

Tgt Ion: 75 Resp: 155088

Ion Ratio Lower Upper

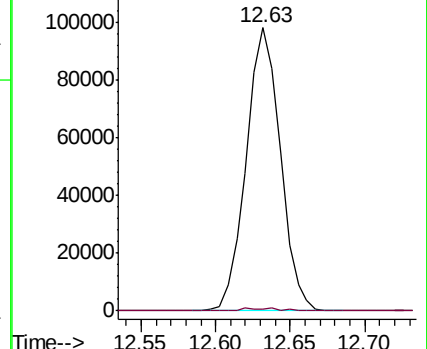
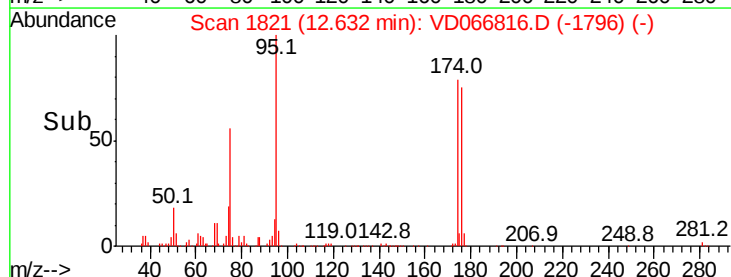
75 100

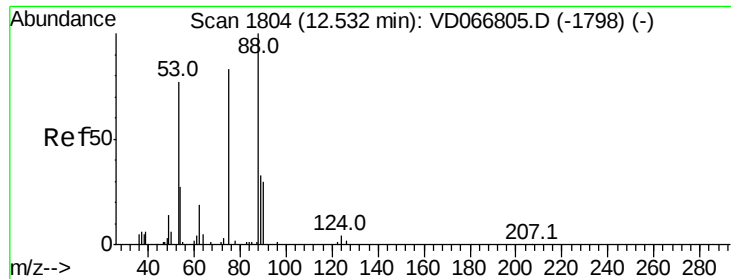
77 1.0 0.0 0.0#



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: 154.404 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. 0.10 min

Lab File: VD066816.D

Acq: 22 Sep 2020 17:40

Instrument :

MSVOA\_D

ClientSampleId :

036

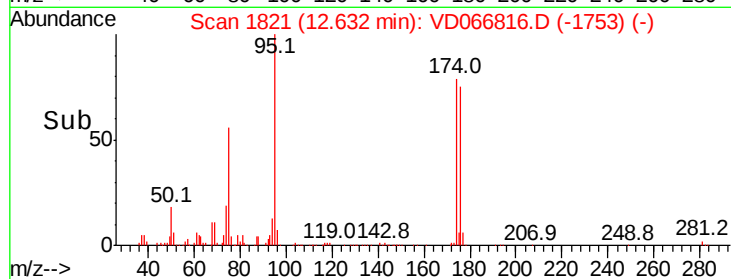
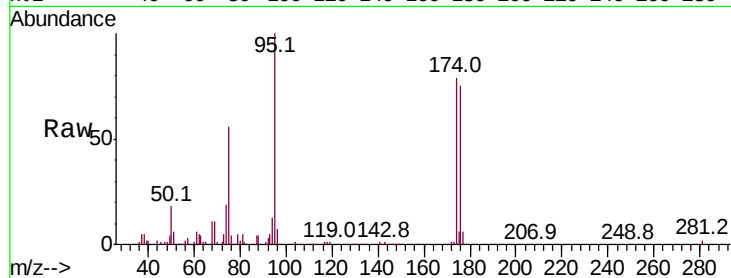
Tot Ion: 75 Resp: 155088

Ion Ratio Lower Upper

75 100

53 0.2 78.5 117.7#

89 0.0 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

