

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD092520\  
 Data File : VD066901.D  
 Acq On : 26 Sep 2020 05:23  
 Operator : VA/SY  
 Sample : L4127-07  
 Misc : 5.05G/5.00ml/MSVOA D/SOIL  
 ALS Vial : 43 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 B-2(11-13)

Quant Time: Sep 26 06:40:39 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  | 453367   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.86  | 114  | 763598   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.64 | 117  | 762249   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.58 | 152  | 369196   | 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   | 218248   | 49.18 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 98.36%  |          |
| 35) Dibromofluoromethane    | 7.91  | 113  | 238660   | 49.13 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 98.26%  |          |
| 50) Toluene-d8              | 10.34 | 98   | 916003   | 55.34 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 110.68% |          |
| 62) 4-Bromofluorobenzene    | 12.63 | 95   | 371880   | 65.63 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 131.26% |          |

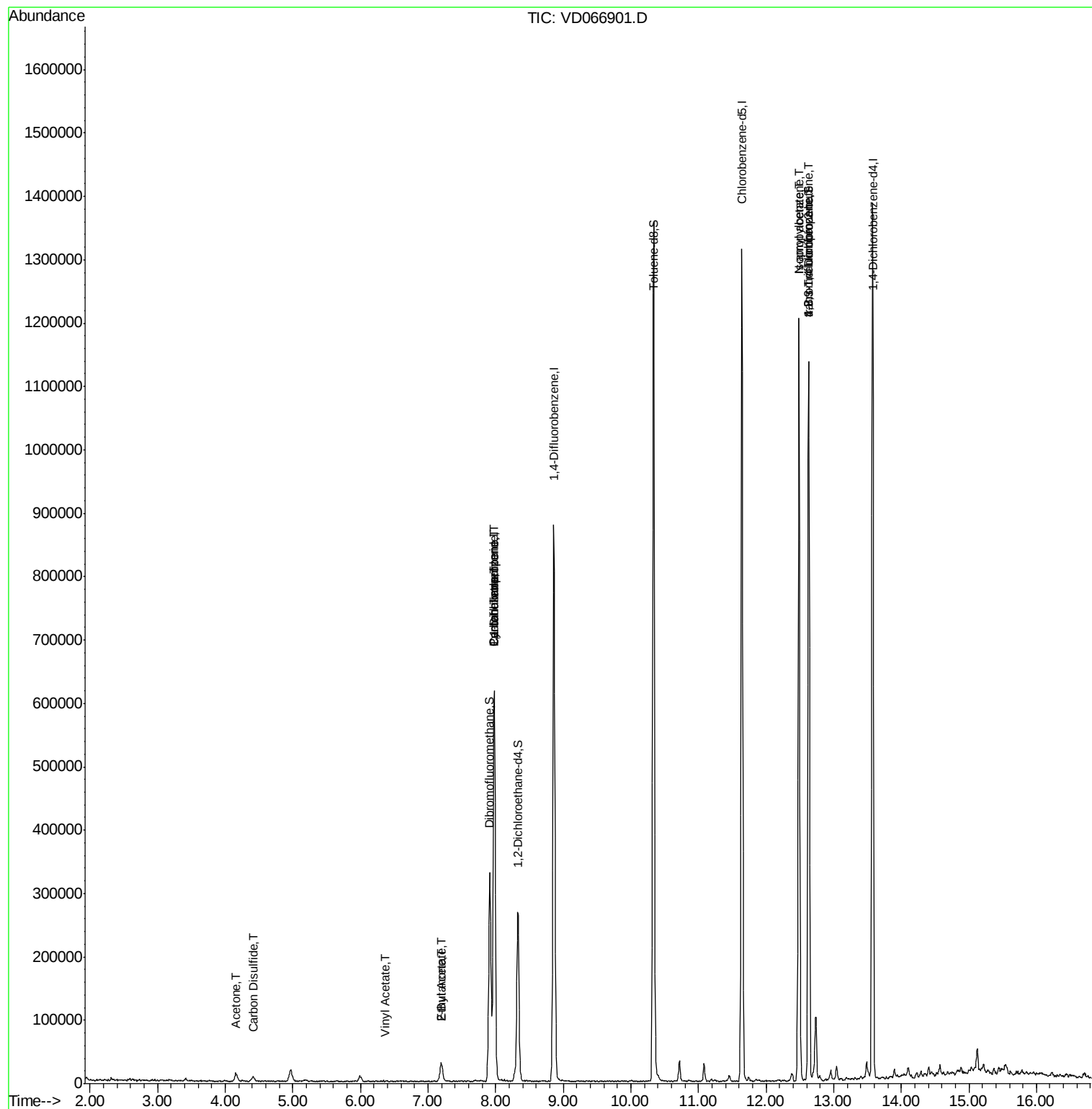
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 2) Dichlorodifluoromethane     | 1.99  | 85   | 124      | Below Cal | #      | 46     |
| 11) Tert butyl alcohol         | 5.18  | 59   | 1643     | Below Cal | #      | 72     |
| 16) Acetone                    | 4.16  | 43   | 23090    | 24.529    | ug/l   | 89     |
| 17) Carbon Disulfide           | 4.41  | 76   | 16220    | 1.195     | ug/l   | 100    |
| 18) Methyl Acetate             | 4.74  | 43   | 81       | Below Cal | #      | 50     |
| 20) Methylene Chloride         | 4.96  | 84   | 14474    | Below Cal |        | 94     |
| 23) Vinyl Acetate              | 6.38  | 43   | 65       | 2.681     | ug/l # | 71     |
| 25) 2-Butanone                 | 7.21  | 43   | 6206     | 5.486     | ug/l # | 82     |
| 31) Cyclohexane                | 7.97  | 56   | 9797     | 1.214     | ug/l # | 8      |
| 36) 1,1-Dichloropropene        | 7.98  | 75   | 36781    | 4.855     | ug/l # | 50     |
| 37) Ethyl Acetate              | 7.21  | 43   | 6206     | 2.266     | ug/l # | 70     |
| 38) Carbon Tetrachloride       | 7.98  | 117  | 48020    | 5.798     | ug/l # | 17     |
| 73) Isopropylbenzene           | 12.48 | 105  | 55193    | 2.069     | ug/l # | 71     |
| 74) N-amyl acetate             | 12.48 | 43   | 22516    | 4.323     | ug/l # | 13     |
| 76) 1,2,3-Trichloropropane     | 12.63 | 75   | 189948   | 62.083    | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.63 | 75   | 189948   | 155.325   | ug/l # | 10     |

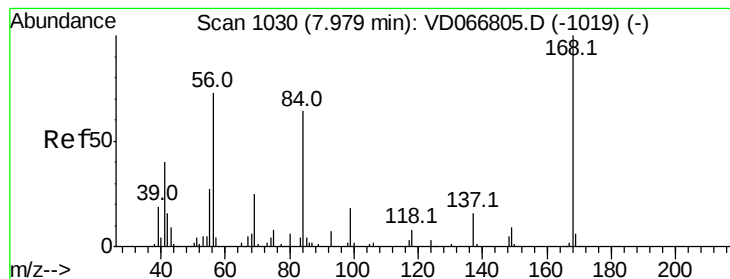
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD092520\  
Data File : VD066901.D  
Acq On : 26 Sep 2020 05:23  
Operator : VA/SY  
Sample : L4127-07  
Misc : 5.05G/5.00ml/MSVOA D/SOIL  
ALS Vial : 43 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
B-2(11-13)

Quant Time: Sep 26 06:40:39 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_D\METHOD\82D092220S.M  
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: VD066901.D

Acq: 26 Sep 2020 05:23

Instrument :

MSVOA\_D

ClientSampleId :

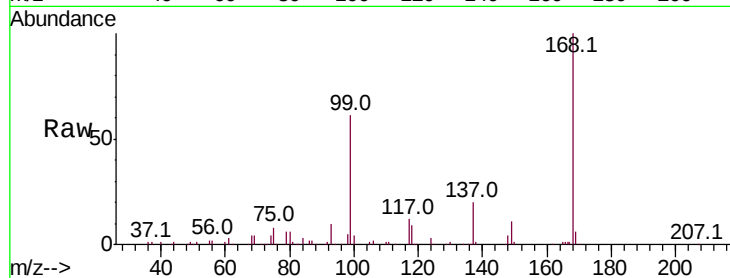
B-2(11-13)

Tot Ion:168 Resp: 453367

Ion Ratio Lower Upper

168 100

99 60.9 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

200000

150000

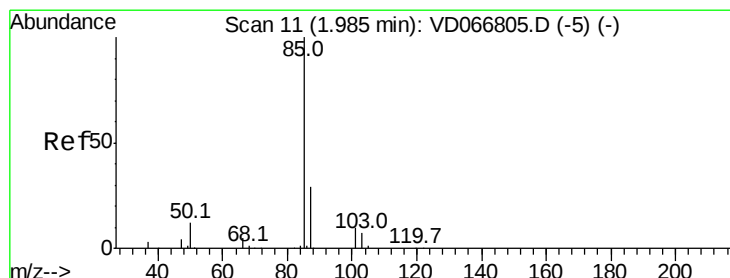
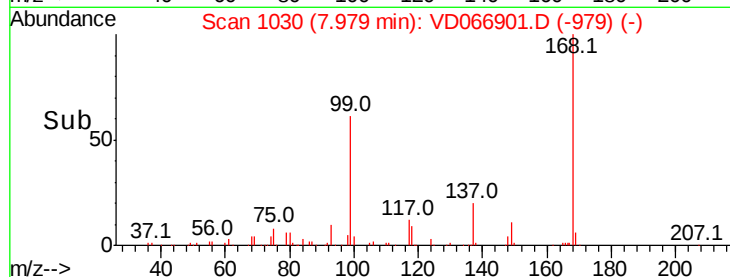
100000

50000

0

7.85 7.90 7.95 8.00 8.05

Time-->



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.99 min Scan# 11

Delta R.T. 0.00 min

Lab File: VD066901.D

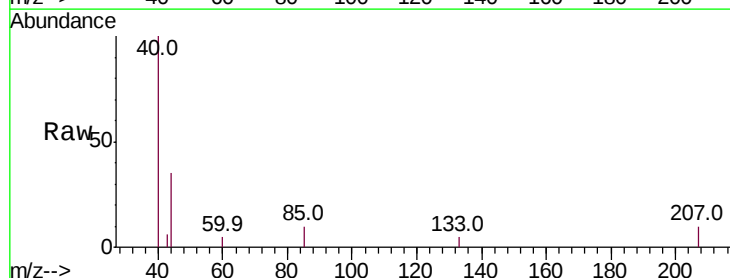
Acq: 26 Sep 2020 05:23

Tgt Ion: 85 Resp: 124

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

1.99

400

300

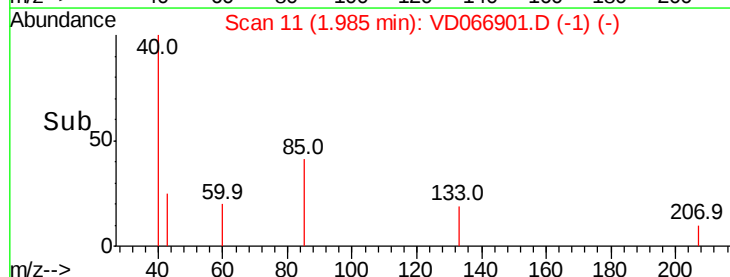
200

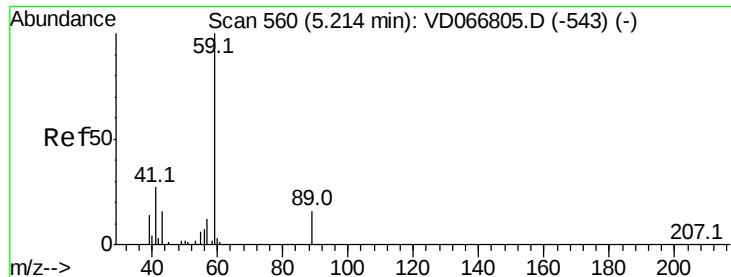
100

0

1.97 1.98 1.99 2.00

Time-->



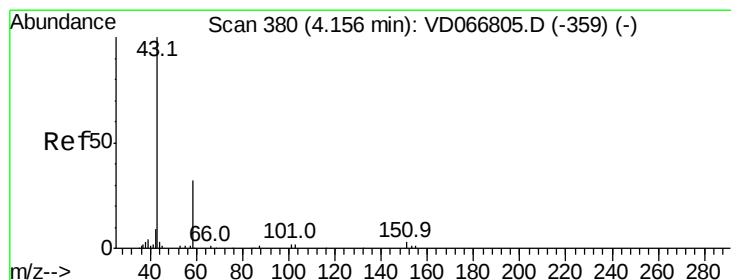
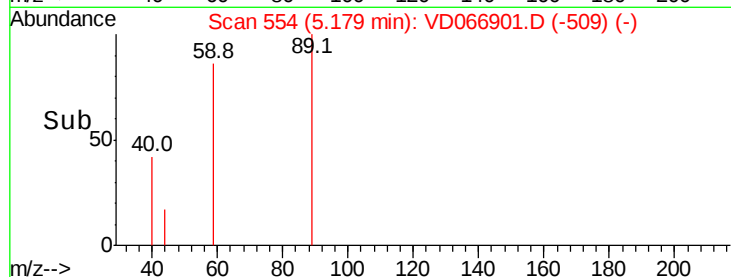
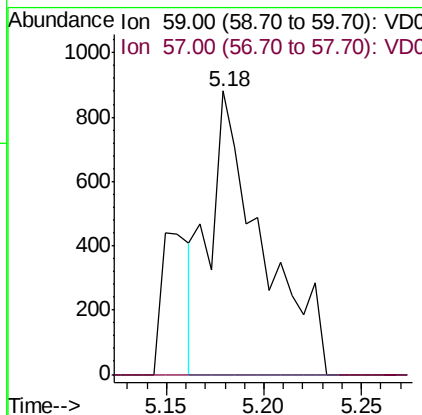
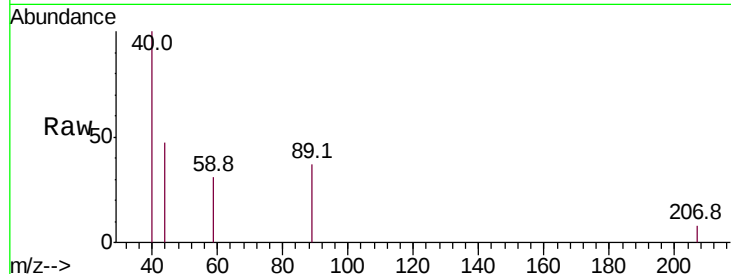


#11

Tert butyl alcohol  
 Concen: Below Cal  
 RT: 5.18 min Scan# 554  
 Delta R.T. -0.03 min  
 Lab File: VD066901.D  
 Acq: 26 Sep 2020 05:23

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 B-2(11-13)

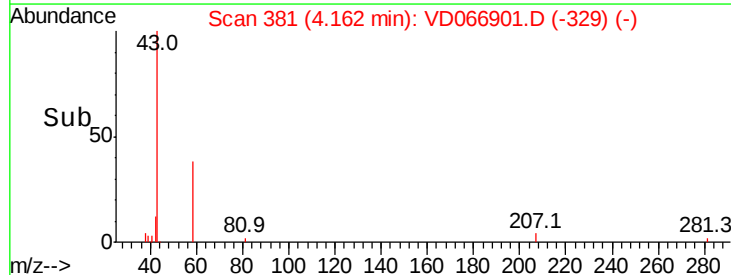
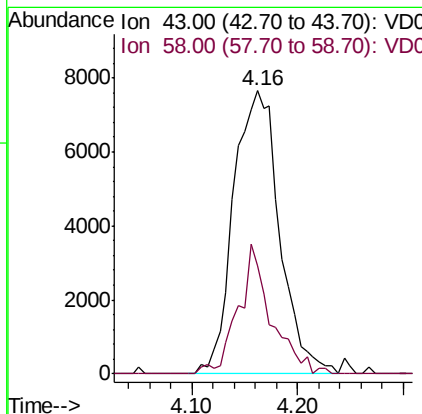
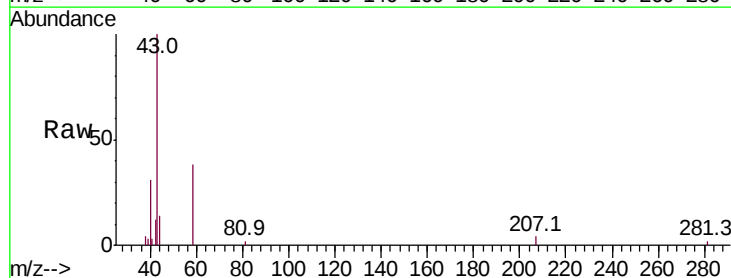
Tot Ion: 59 Resp: 1643  
 Ion Ratio Lower Upper  
 59 100  
 57 0.0 8.3 12.5#

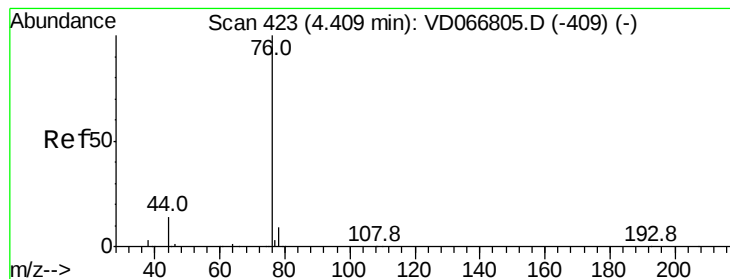


#16

Acetone  
 Concen: 24.529 ug/l  
 RT: 4.16 min Scan# 381  
 Delta R.T. 0.01 min  
 Lab File: VD066901.D  
 Acq: 26 Sep 2020 05:23

Tgt Ion: 43 Resp: 23090  
 Ion Ratio Lower Upper  
 43 100  
 58 38.2 25.6 38.4





#17

Carbon Disulfide

Concen: 1.195 ug/l

RT: 4.41 min Scan# 424

Delta R.T. 0.01 min

Lab File: VD066901.D

Acq: 26 Sep 2020 05:23

Instrument :

MSVOA\_D

ClientSampleId :

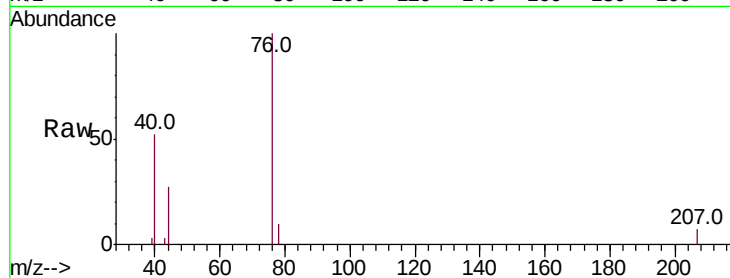
B-2(11-13)

Tot Ion: 76 Resp: 16220

Ion Ratio Lower Upper

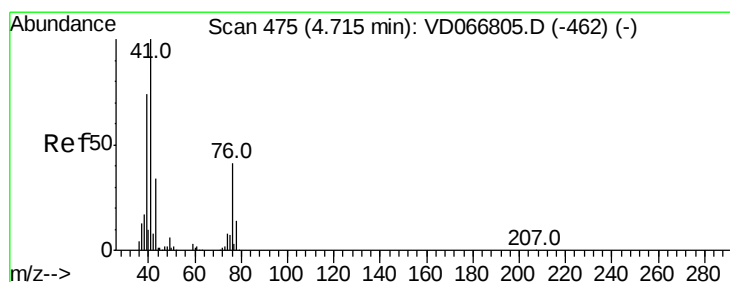
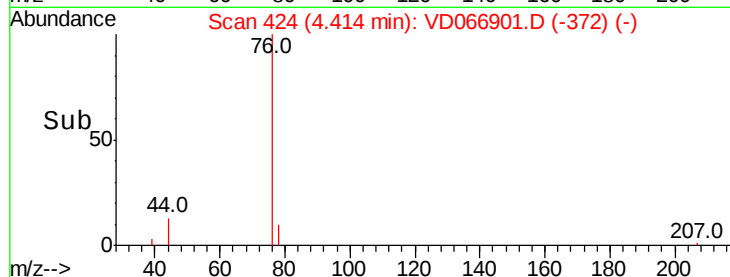
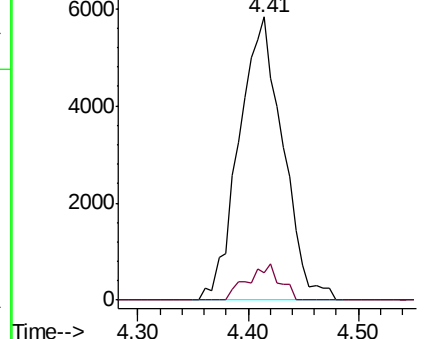
76 100

78 9.6 7.6 11.4



Abundance Ion 75.90 (75.60 to 76.60): VDC

Ion 77.90 (77.60 to 78.60): VDC



#18

Methyl Acetate

Concen: Below Cal

RT: 4.74 min Scan# 480

Delta R.T. 0.03 min

Lab File: VD066901.D

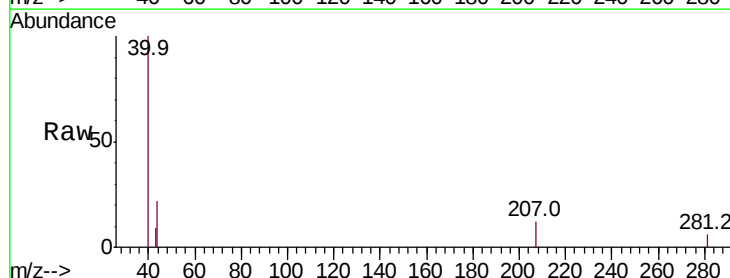
Acq: 26 Sep 2020 05:23

Tgt Ion: 43 Resp: 81

Ion Ratio Lower Upper

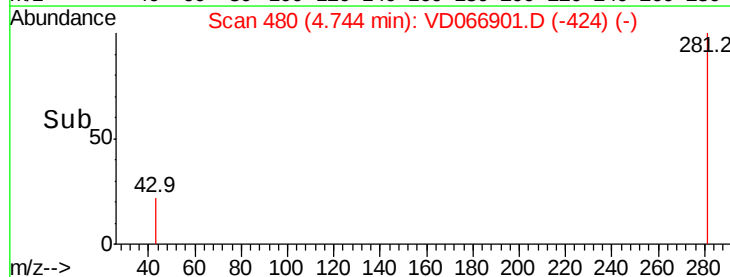
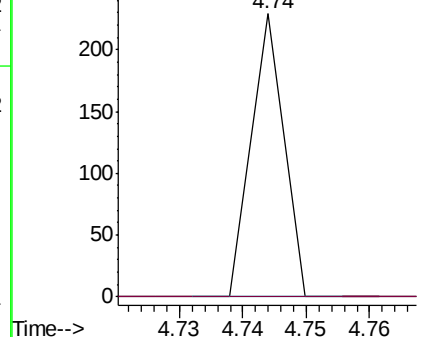
43 100

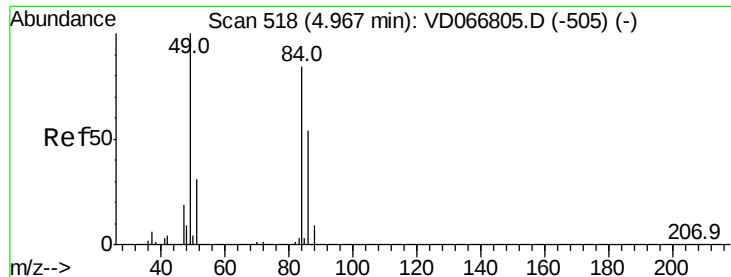
74 0.0 20.3 30.5#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 74.00 (73.70 to 74.70): VDC

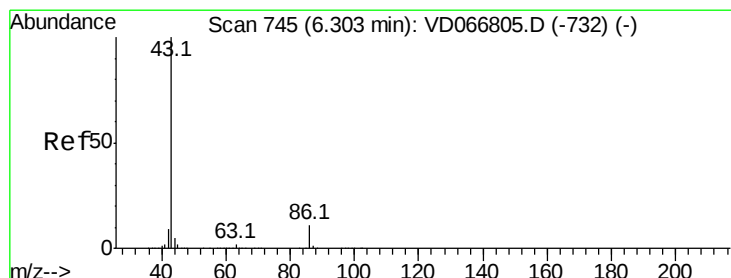
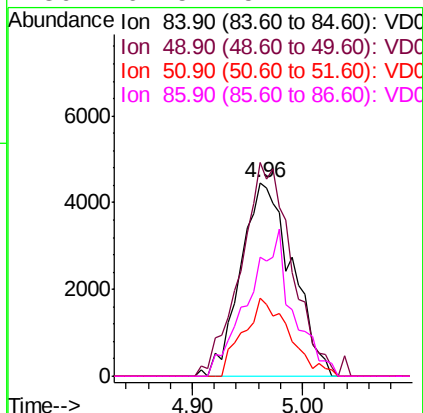
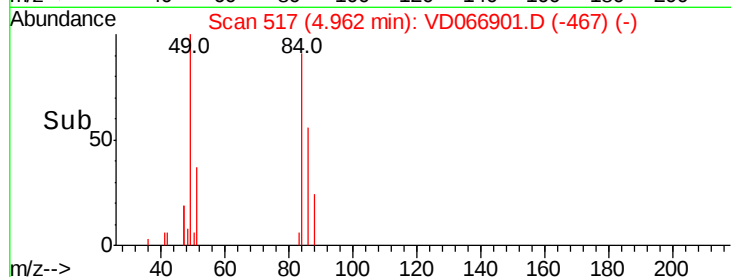
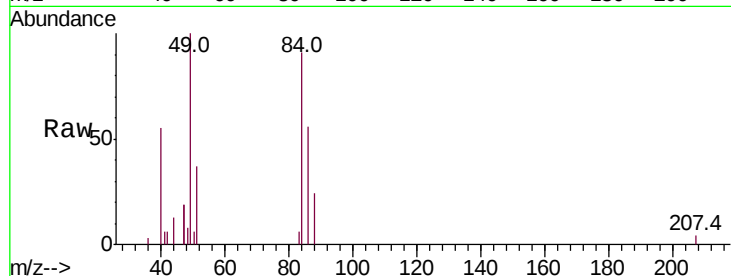




#20  
Methvlene Chloride  
Concen: Below Cal  
RT: 4.96 min Scan# 517  
Delta R.T. -0.01 min  
Lab File: VD066901.D  
Acq: 26 Sep 2020 05:23

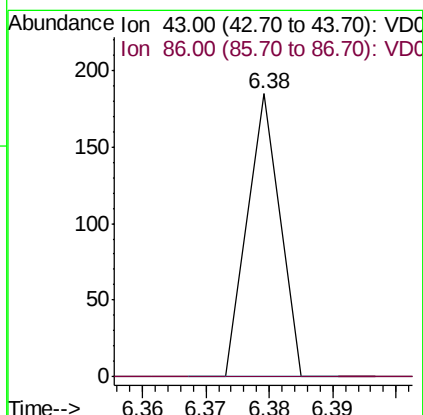
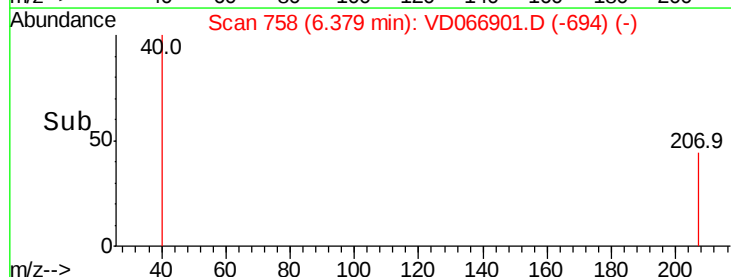
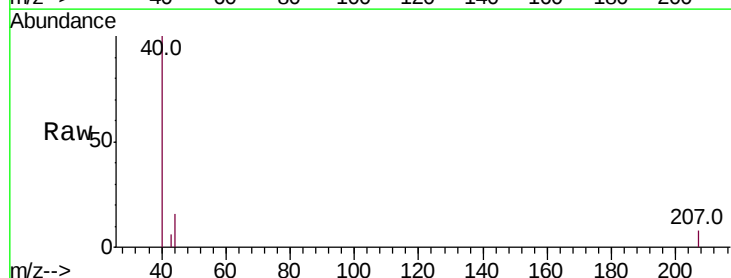
Instrument :  
MSVOA\_D  
ClientSampleId :  
B-2(11-13)

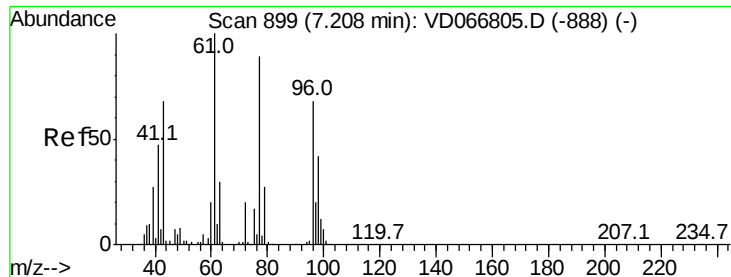
Tot Ion: 84 Resp: 14474  
Ion Ratio Lower Upper  
84 100  
49 110.5 95.4 143.2  
51 40.7 29.7 44.5  
86 61.5 51.4 77.2



#23  
Vinyl Acetate  
Concen: 2.681 ug/l  
RT: 6.38 min Scan# 758  
Delta R.T. 0.08 min  
Lab File: VD066901.D  
Acq: 26 Sep 2020 05:23

Tgt Ion: 43 Resp: 65  
Ion Ratio Lower Upper  
43 100  
86 0.0 8.9 13.3#





#25

2-Butanone

Concen: 5.486 ug/l

RT: 7.21 min Scan# 899

Delta R.T. -0.00 min

Lab File: VD066901.D

Acq: 26 Sep 2020 05:23

Instrument :

MSVOA\_D

ClientSampleId :

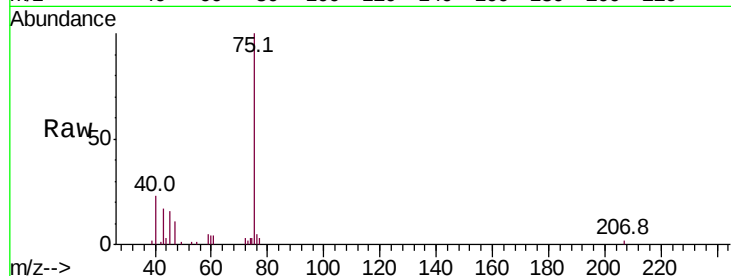
B-2(11-13)

Tot Ion: 43 Resp: 6206

Ion Ratio Lower Upper

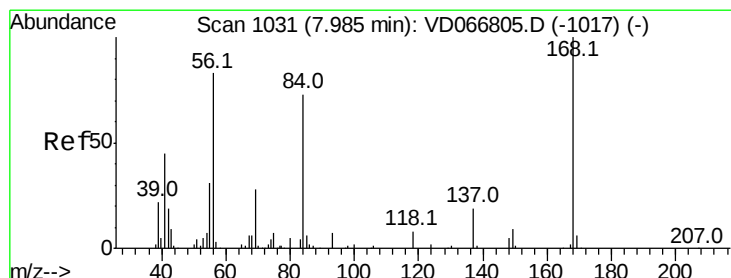
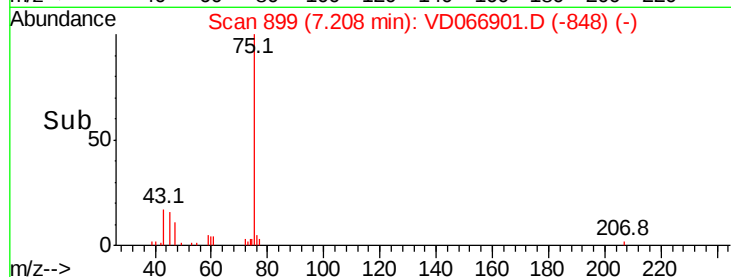
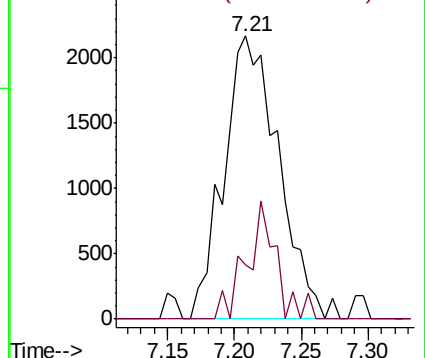
43 100

72 19.2 22.9 34.3#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 72.00 (71.70 to 72.70): VDC



#31

Cyclohexane

Concen: 1.214 ug/l

RT: 7.97 min Scan# 1029

Delta R.T. -0.01 min

Lab File: VD066901.D

Acq: 26 Sep 2020 05:23

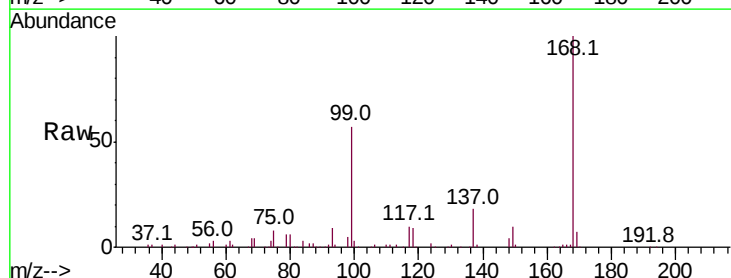
Tgt Ion: 56 Resp: 9797

Ion Ratio Lower Upper

56 100

69 152.5 27.0 40.4#

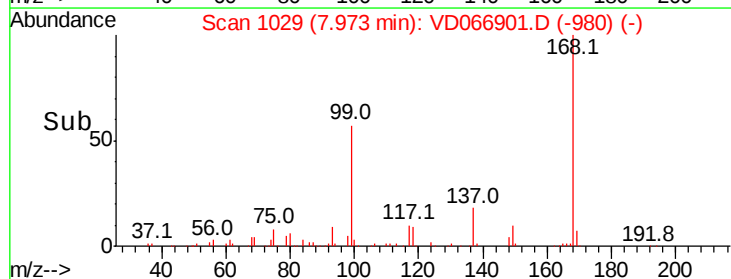
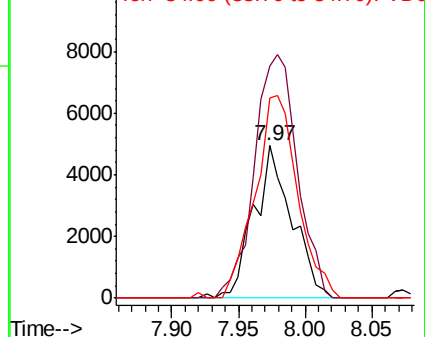
84 131.2 70.2 105.4#

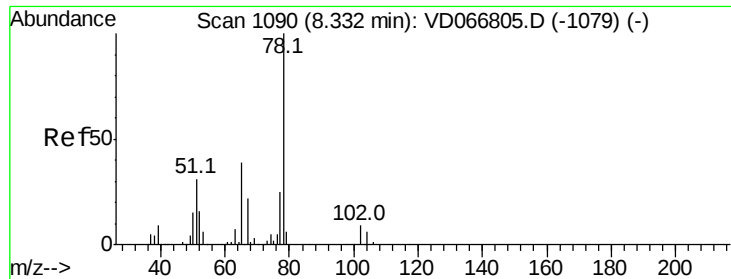


Abundance Ion 56.00 (55.70 to 56.70): VDC

Ion 69.00 (68.70 to 69.70): VDC

Ion 84.00 (83.70 to 84.70): VDC





#33

1,2-Dichloroethane-d4

Concen: 49.184 ug/l

RT: 8.33 min Scan# 1089

Delta R.T. -0.01 min

Lab File: VD066901.D

Acq: 26 Sep 2020 05:23

Instrument :

MSVOA\_D

ClientSampleId :

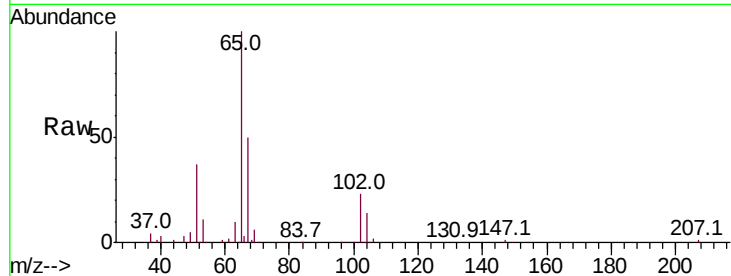
B-2(11-13)

Tot Ion: 65 Resp: 218248

Ion Ratio Lower Upper

65 100

67 50.0 0.0 107.2



Abundance Ion 64.90 (64.60 to 65.60): VDC

Ion 66.90 (66.60 to 67.60): VDC

8.33

100000

80000

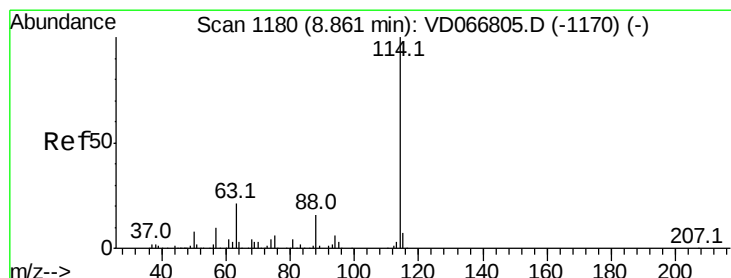
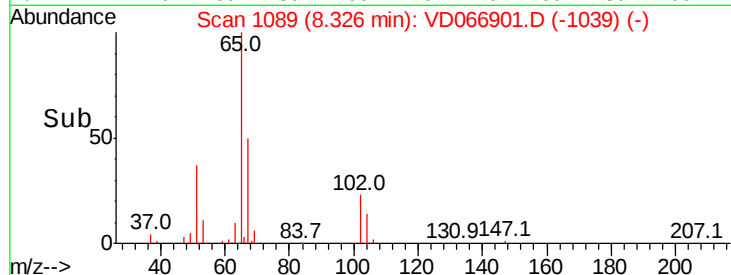
60000

40000

20000

0

Time--> 8.20 8.30 8.40



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.86 min Scan# 1180

Delta R.T. -0.00 min

Lab File: VD066901.D

Acq: 26 Sep 2020 05:23

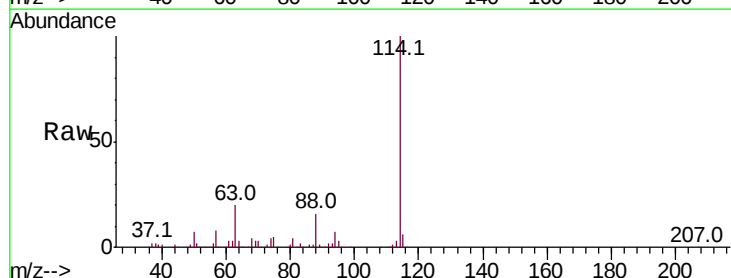
Tgt Ion: 114 Resp: 763598

Ion Ratio Lower Upper

114 100

63 19.6 0.0 42.6

88 15.7 0.0 32.6



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VDC

Ion 87.90 (87.60 to 88.60): VDC

8.86

500000

400000

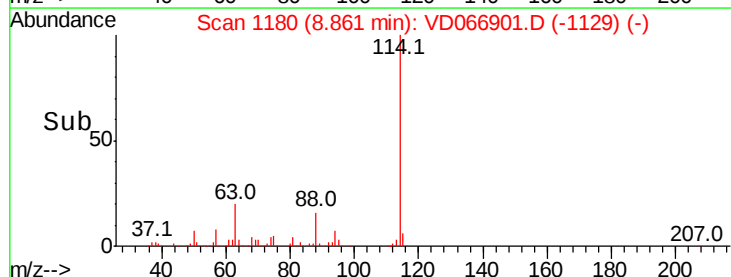
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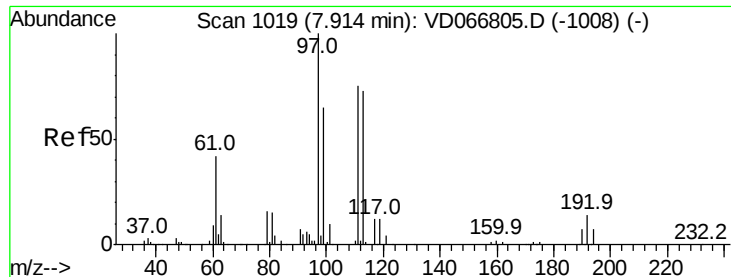
200000

100000

0

Time--> 8.80 8.90 9.00

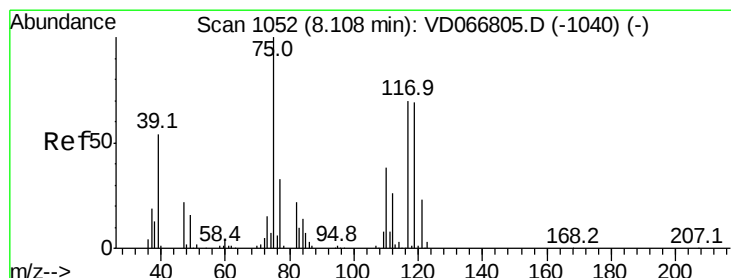
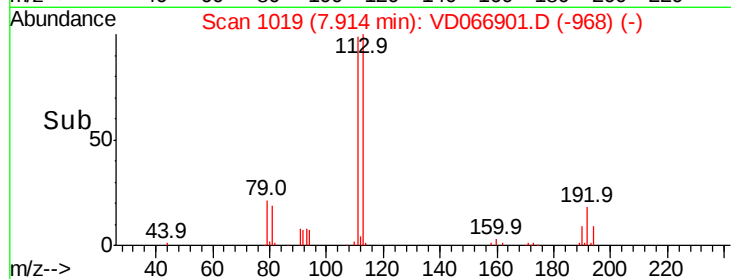
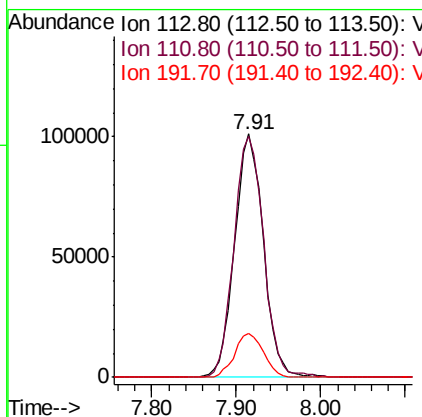
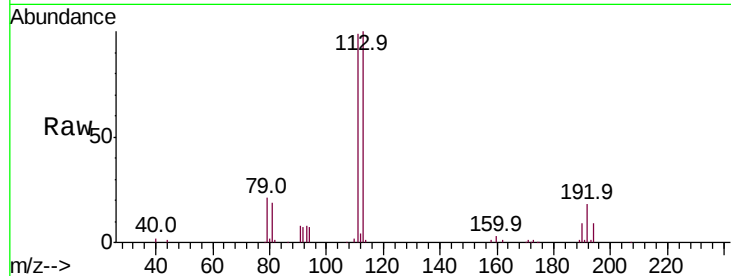




#35  
 Dibromofluoromethane  
 Concen: 49.127 ug/l  
 RT: 7.91 min Scan# 1019  
 Delta R.T. -0.00 min  
 Lab File: VD066901.D  
 Acq: 26 Sep 2020 05:23

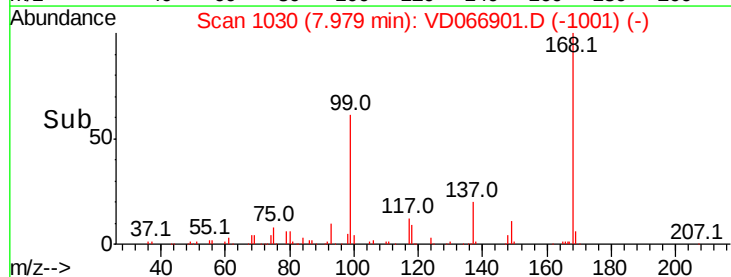
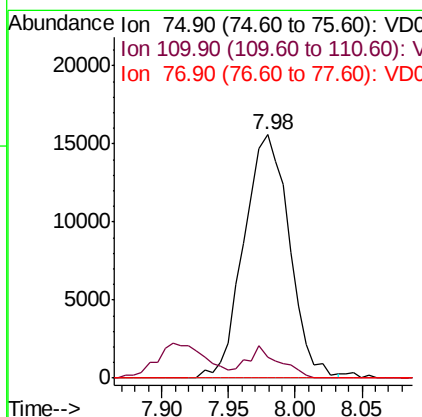
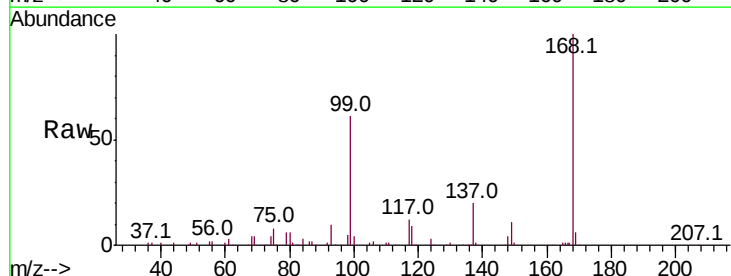
Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 B-2(11-13)

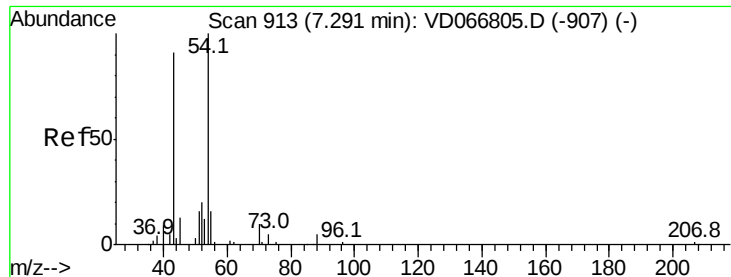
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 102.2 | 81.8  | 122.8 |
| 192     | 18.2  | 14.4  | 21.6  |



#36  
 1,1-Dichloropropene  
 Concen: 4.855 ug/l  
 RT: 7.98 min Scan# 1030  
 Delta R.T. -0.13 min  
 Lab File: VD066901.D  
 Acq: 26 Sep 2020 05:23

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 9.4   | 17.9  | 53.8# |
| 77      | 0.0   | 25.0  | 37.6# |





#37

Ethyl Acetate

Concen: 2.266 ug/l

RT: 7.21 min Scan# 899

Delta R.T. -0.08 min

Lab File: VD066901.D

Acq: 26 Sep 2020 05:23

Instrument :

MSVOA\_D

ClientSampleID :

B-2(11-13)

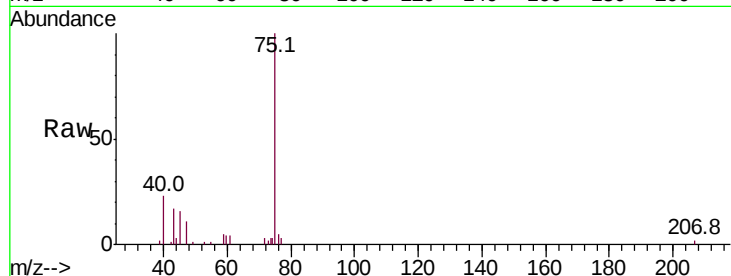
Tot Ion: 43 Resp: 6206

Ion Ratio Lower Upper

43 100

61 0.0 9.8 14.8#

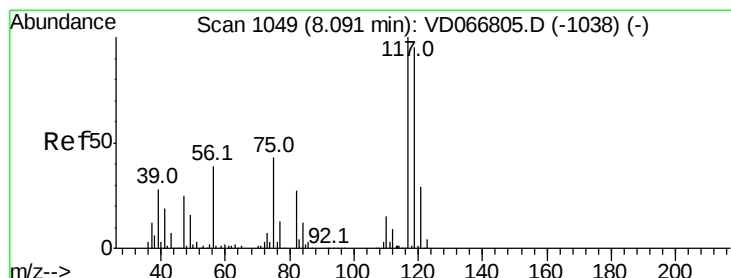
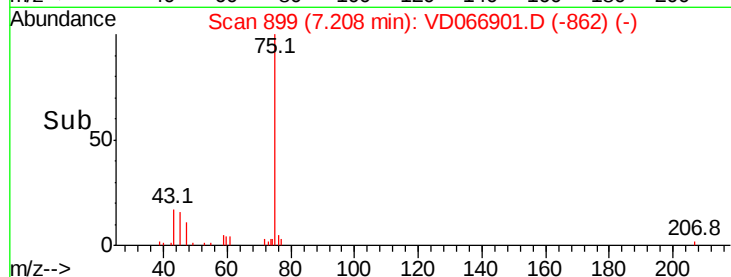
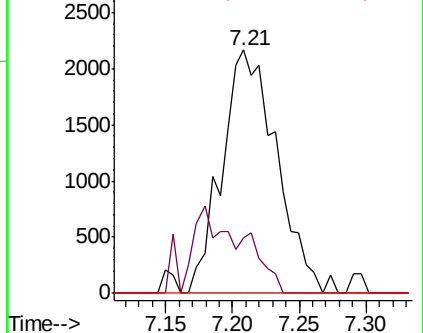
70 0.0 8.5 12.7#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 60.90 (60.60 to 61.60): VDC

Ion 70.00 (69.70 to 70.70): VDC



#38

Carbon Tetrachloride

Concen: 5.798 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.11 min

Lab File: VD066901.D

Acq: 26 Sep 2020 05:23

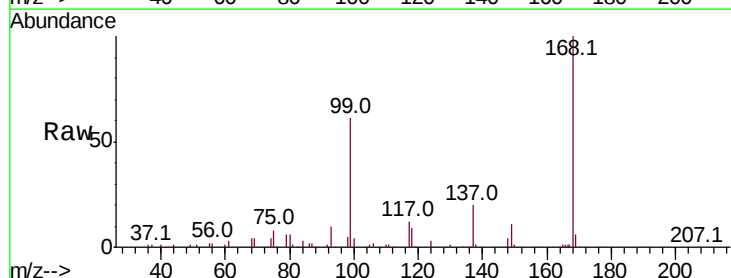
Tgt Ion: 117 Resp: 48020

Ion Ratio Lower Upper

117 100

119 5.5 75.8 113.8#

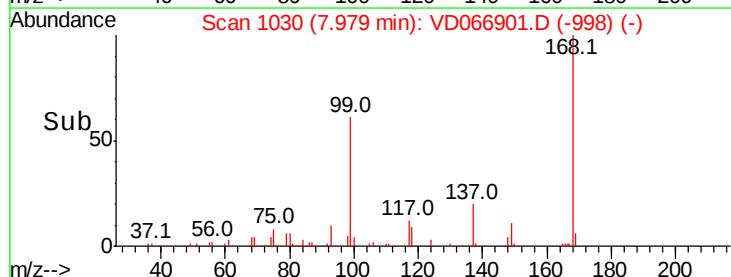
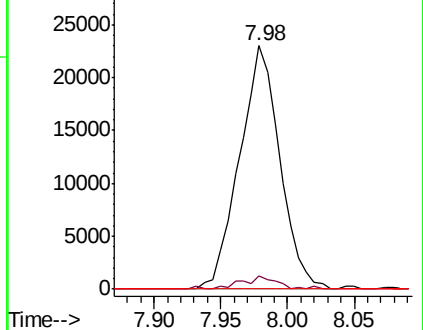
121 0.0 23.4 35.0#

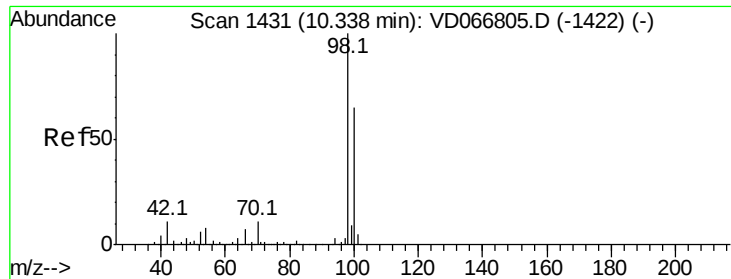


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V

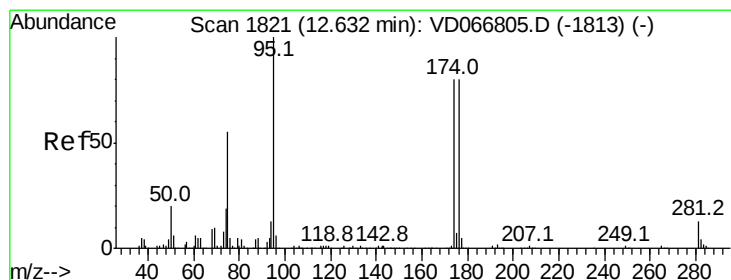
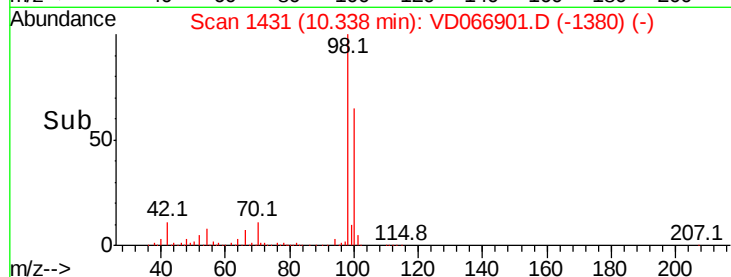
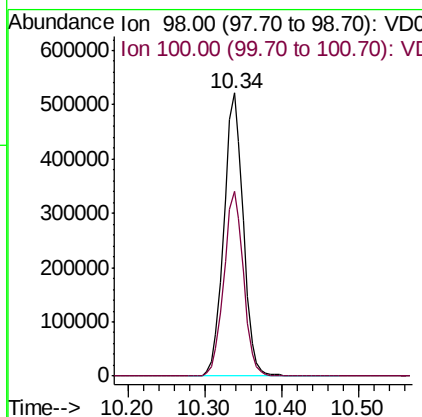
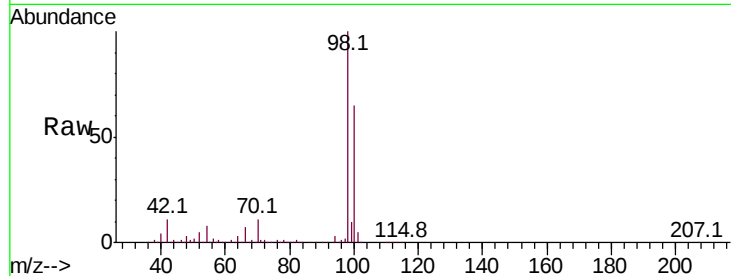




#50  
Toluene-d8  
Concen: 55.341 ug/l  
RT: 10.34 min Scan# 1431  
Delta R.T. -0.00 min  
Lab File: VD066901.D  
Acq: 26 Sep 2020 05:23

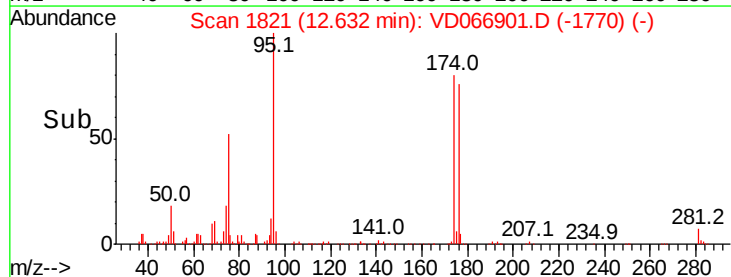
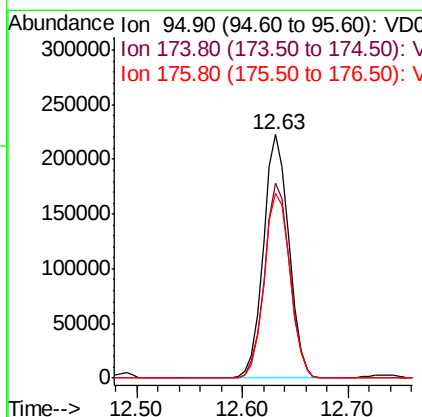
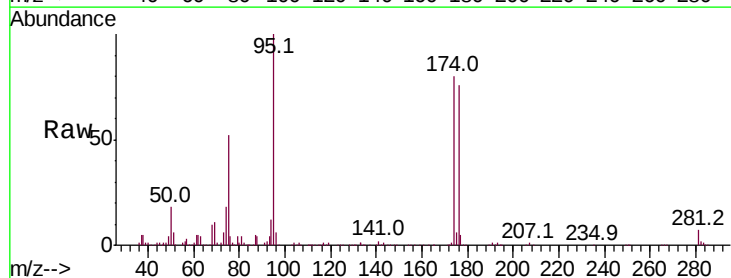
Instrument :  
MSVOA\_D  
ClientSampleId :  
B-2(11-13)

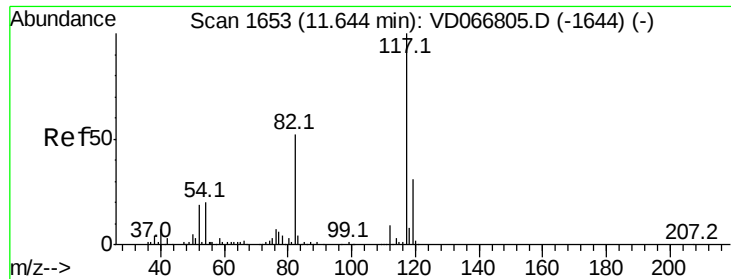
Tot Ion: 98 Resp: 916003  
Ion Ratio Lower Upper  
98 100  
100 66.0 52.2 78.2



#62  
4-Bromofluorobenzene  
Concen: 65.629 ug/l  
RT: 12.63 min Scan# 1821  
Delta R.T. -0.00 min  
Lab File: VD066901.D  
Acq: 26 Sep 2020 05:23

Tgt Ion: 95 Resp: 371880  
Ion Ratio Lower Upper  
95 100  
174 79.7 0.0 159.8  
176 77.1 0.0 154.4

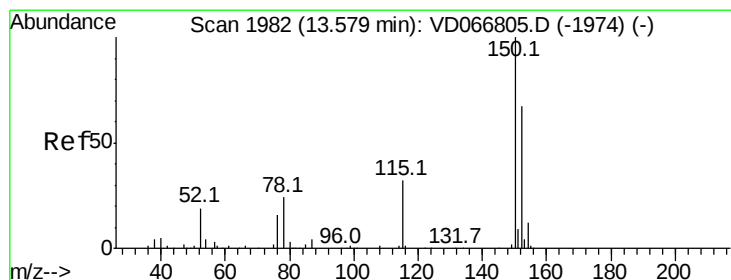
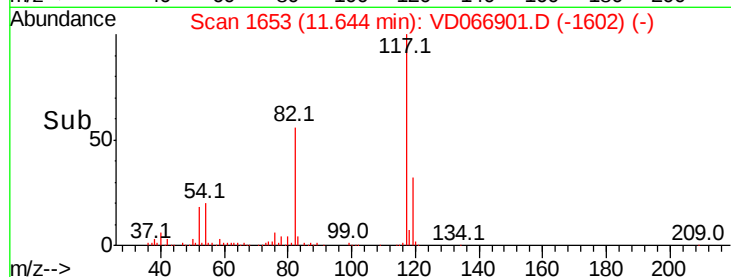
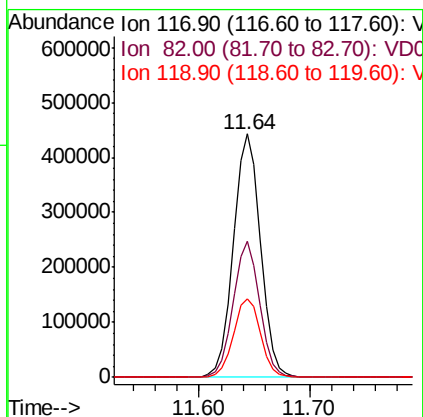
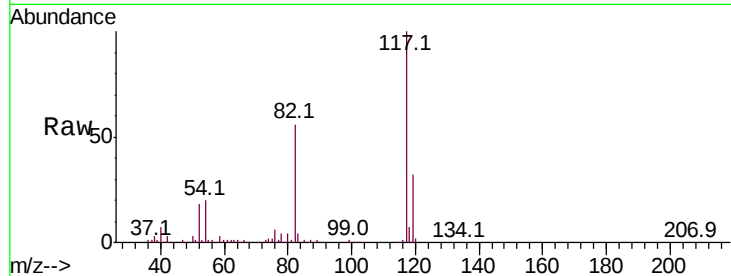




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.64 min Scan# 1653  
Delta R.T. -0.00 min  
Lab File: VD066901.D  
Acq: 26 Sep 2020 05:23

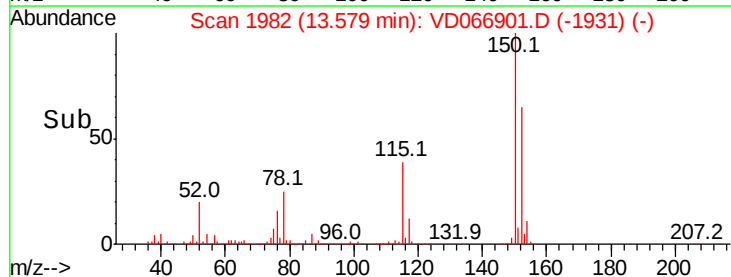
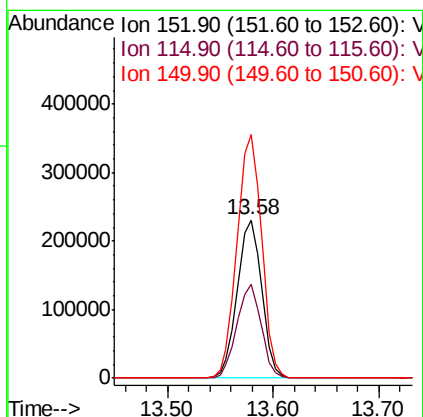
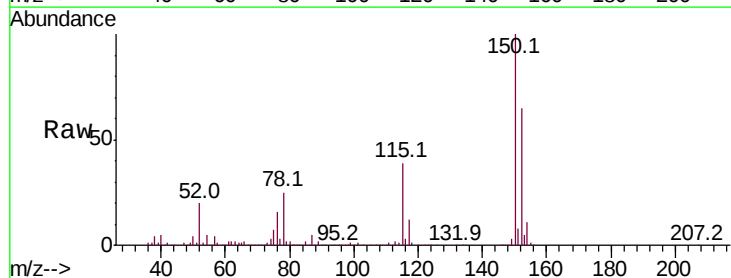
Instrument :  
MSVOA\_D  
ClientSampled :  
B-2(11-13)

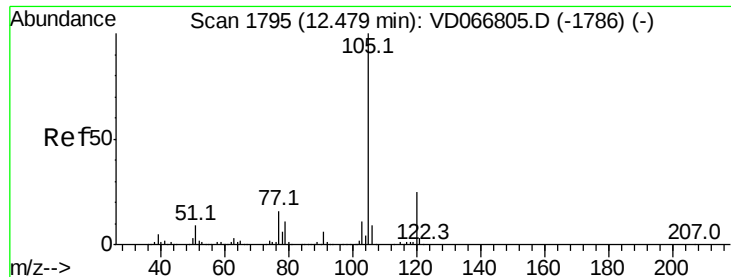
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 56.0  | 41.8  | 62.6  |
| 119     | 32.1  | 24.6  | 37.0  |



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.58 min Scan# 1982  
Delta R.T. -0.00 min  
Lab File: VD066901.D  
Acq: 26 Sep 2020 05:23

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 115     | 58.6  | 30.3  | 91.0  |
| 150     | 154.8 | 0.0   | 346.2 |





#73

Isopropylbenzene

Concen: 2.069 ug/l

RT: 12.48 min Scan# 1796

Delta R.T. 0.01 min

Lab File: VD066901.D

Acq: 26 Sep 2020 05:23

Instrument :

MSVOA\_D

ClientSampleId :

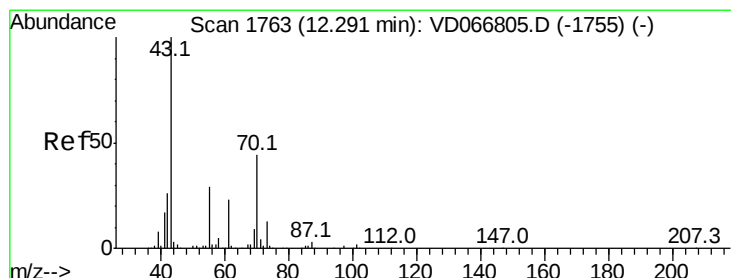
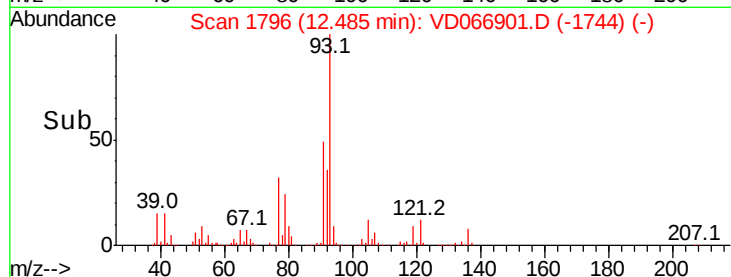
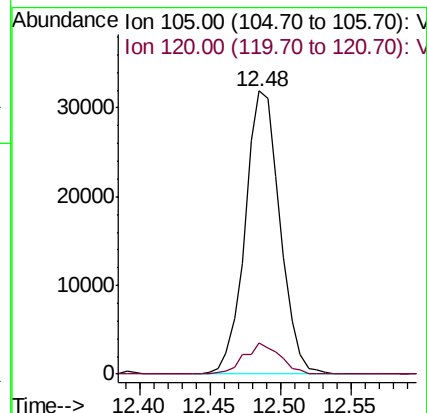
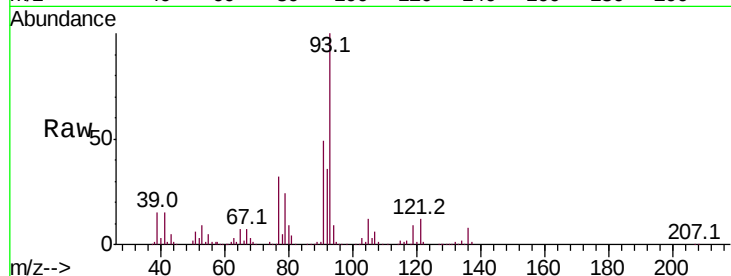
B-2(11-13)

Tot Ion:105 Resp: 55193

Ion Ratio Lower Upper

105 100

120 11.2 12.9 38.6#



#74

N-ethyl acetate

Concen: 4.323 ug/l

RT: 12.48 min Scan# 1796

Delta R.T. 0.19 min

Lab File: VD066901.D

Acq: 26 Sep 2020 05:23

Tgt Ion: 43 Resp: 22516

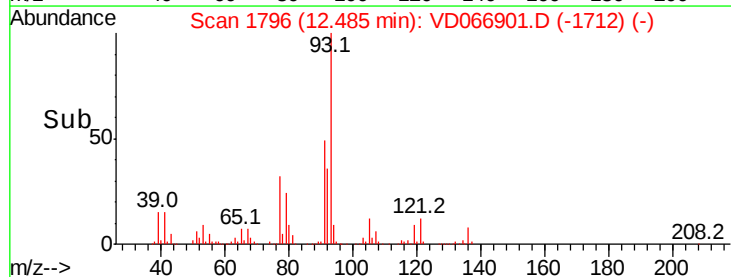
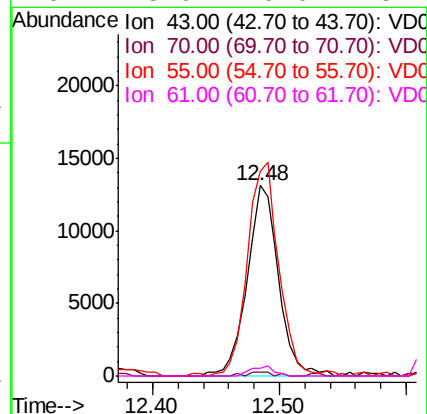
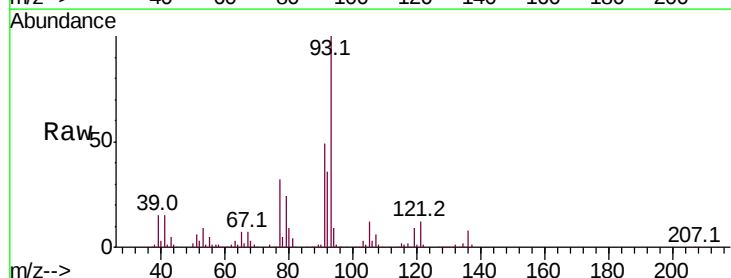
Ion Ratio Lower Upper

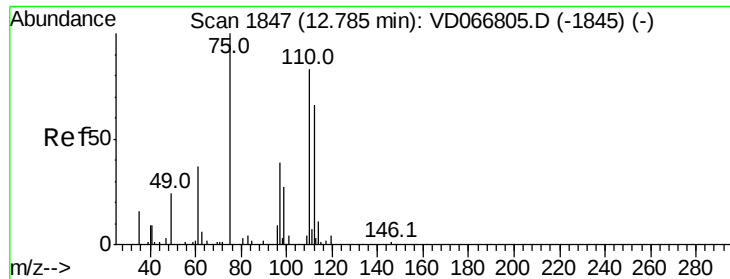
43 100

70 1.7 36.1 54.1#

55 111.8 21.8 32.8#

61 3.9 19.0 28.4#

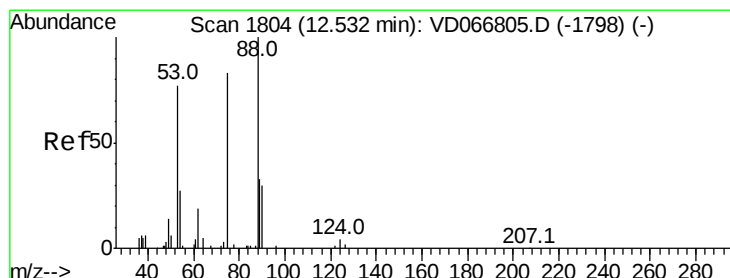
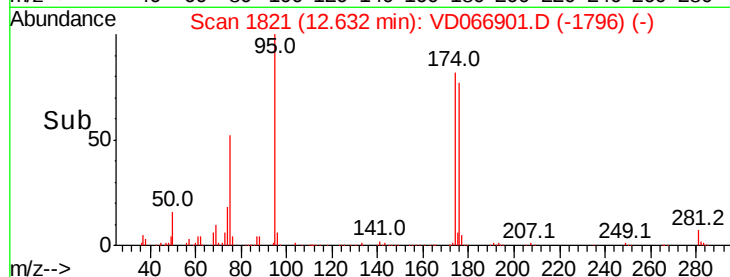
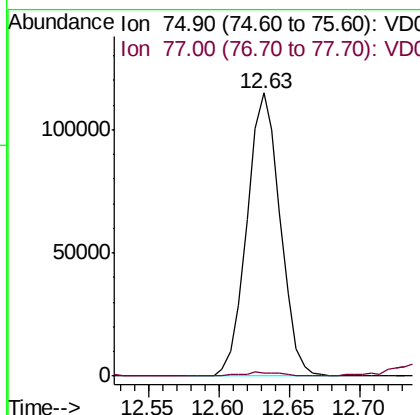
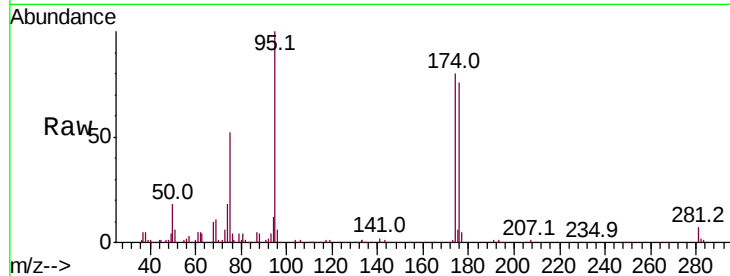




#76  
 1,2,3-Trichloropropane  
 Concen: 62.083 ug/l  
 RT: 12.63 min Scan# 1821  
 Delta R.T. -0.15 min  
 Lab File: VD066901.D  
 Acq: 26 Sep 2020 05:23

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 B-2(11-13)

Tot Ion: 75 Resp: 189948  
 Ion Ratio Lower Upper  
 75 100  
 77 1.8 0.0 0.0#



#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 155.325 ug/l  
 RT: 12.63 min Scan# 1821  
 Delta R.T. 0.10 min  
 Lab File: VD066901.D  
 Acq: 26 Sep 2020 05:23

Tgt Ion: 75 Resp: 189948  
 Ion Ratio Lower Upper  
 75 100  
 53 0.0 78.5 117.7#  
 89 0.1 38.1 57.1#

