

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD050719\  
 Data File : VD062145.D  
 Acq On : 7 May 2019 21:28  
 Operator : FY/SY  
 Sample : VD0507SBL01  
 Misc : 5.00µ/5mL/MSVOA D/SOIL  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VD0507SBL01

Quant Time: May 08 04:31:58 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D050719S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue May 07 14:26:29 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.00  | 168  | 769587   | 50.00 | ug/l  | -0.02    |
| 34) 1,4-Difluorobenzene    | 8.18  | 114  | 1116036  | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 12.35 | 117  | 937252   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 14.50 | 152  | 517148   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 7.42  | 65   | 394358   | 55.14 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 110.28% |          |
| 35) Dibromofluoromethane    | 6.89  | 113  | 522618   | 56.44 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 112.88% |          |
| 50) Toluene-d8              | 10.38 | 98   | 1191207  | 53.35 | ug/l    | -0.02    |
| Spiked Amount               |       |      | Recovery | =     | 106.70% |          |
| 62) 4-Bromofluorobenzene    | 13.54 | 95   | 483337   | 53.91 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 107.82% |          |

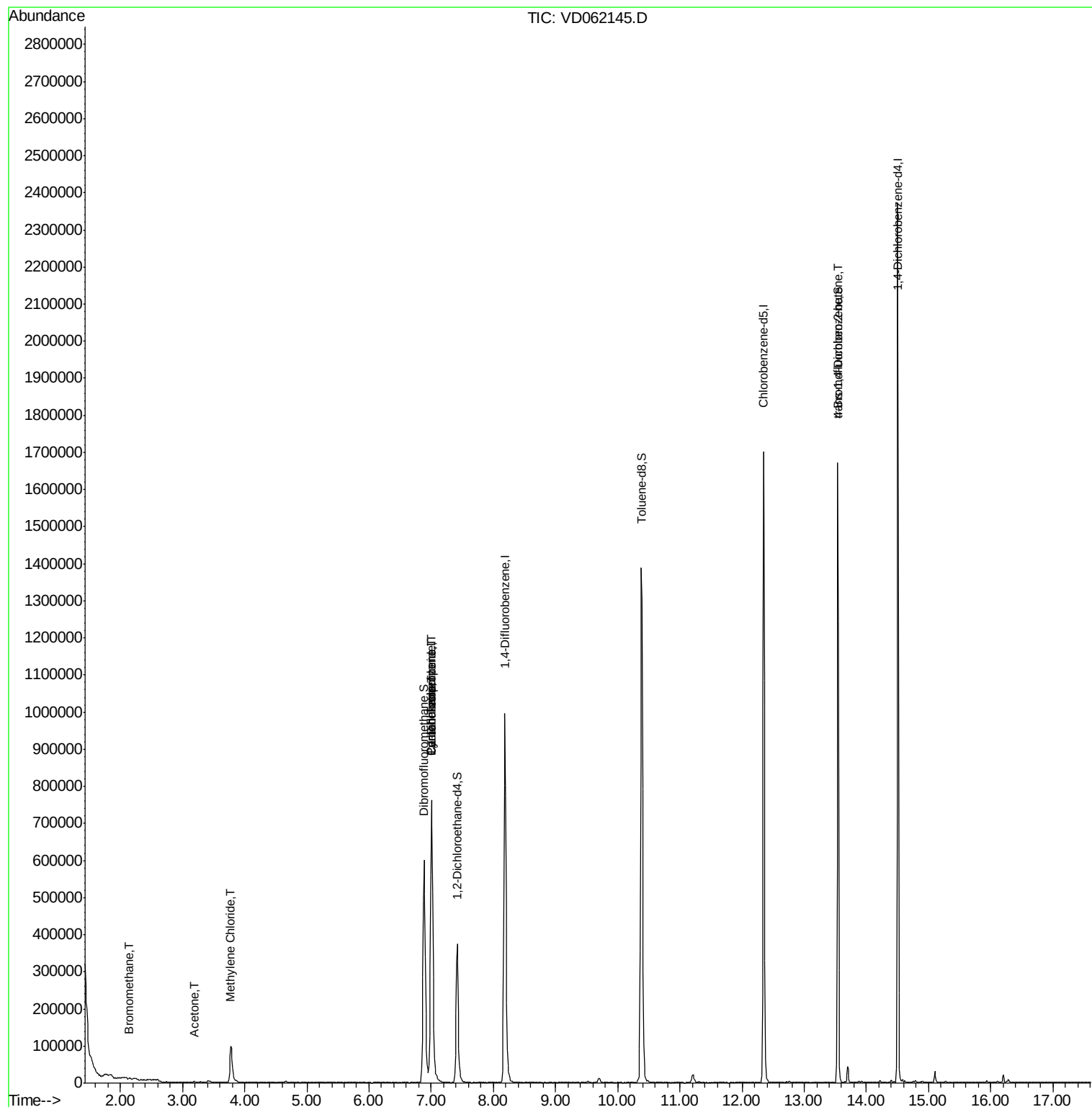
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 5) Bromomethane                | 2.13  | 94   | 5289     | 4.318     | ug/l # | 12     |
| 16) Acetone                    | 3.19  | 43   | 4191     | 2.794     | ug/l   | 93     |
| 18) Methyl Acetate             | 3.61  | 43   | 214      | Below Cal | #      | 53     |
| 20) Methylene Chloride         | 3.78  | 84   | 71255    | 11.378    | ug/l   | 94     |
| 31) Cyclohexane                | 7.00  | 56   | 13229    | 1.763     | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 7.00  | 75   | 54634    | 5.971     | ug/l # | 46     |
| 38) Carbon Tetrachloride       | 7.00  | 117  | 69213    | 5.465     | ug/l # | 16     |
| 81) trans-1,4-Dichloro-2-buten | 13.54 | 75   | 192779   | 111.111   | ug/l # | 16     |

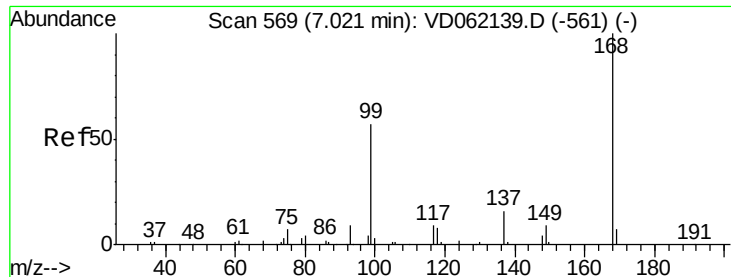
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD050719\  
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ALS Vial : 17 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
VD0507SBL01

Quant Time: May 08 04:31:58 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_D\METHOD\82D050719S.M  
Quant Title : SW846 8260  
QLast Update : Tue May 07 14:26:29 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.00 min Scan# 567

Delta R.T. -0.02 min

Lab File: VD062145.D

Acq: 7 May 2019 21:28

Instrument :

MSVOA\_D

ClientSampleId :

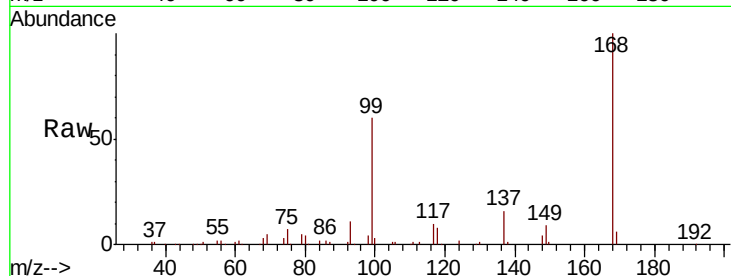
VD0507SBL01

Tot Ion:168 Resp: 769587

Ion Ratio Lower Upper

168 100

99 59.6 46.5 69.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

7.00

250000

200000

150000

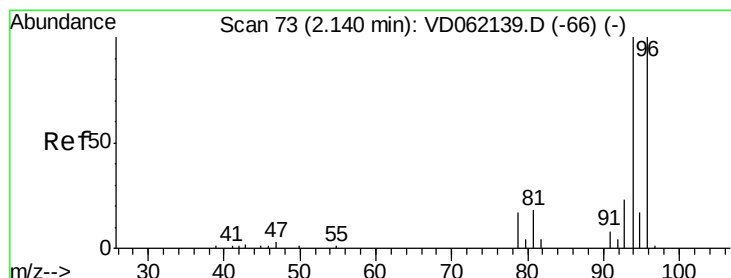
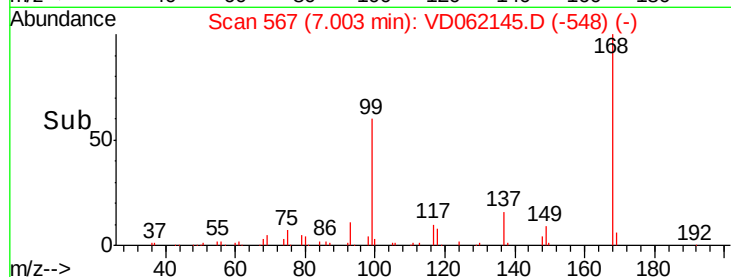
100000

50000

0

6.90 7.00 7.10 7.20

Time-->



#5

Bromomethane

Concen: 4.318 ug/l

RT: 2.13 min Scan# 72

Delta R.T. -0.01 min

Lab File: VD062145.D

Acq: 7 May 2019 21:28

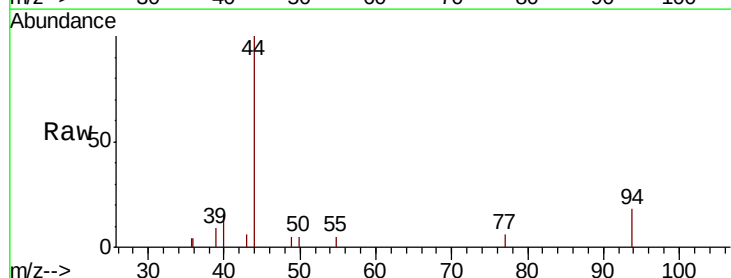
Tgt Ion: 94 Resp: 5289

Ion Ratio Lower Upper

94 100

96 0.0 76.6 115.0#

93 0.0 18.5 27.7#



Abundance Ion 94.00 (93.70 to 94.70): VDC

Ion 96.00 (95.70 to 96.70): VDC

Ion 93.00 (92.70 to 93.70): VDC

1500

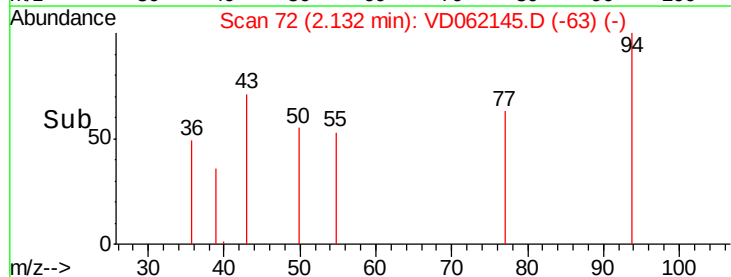
1000

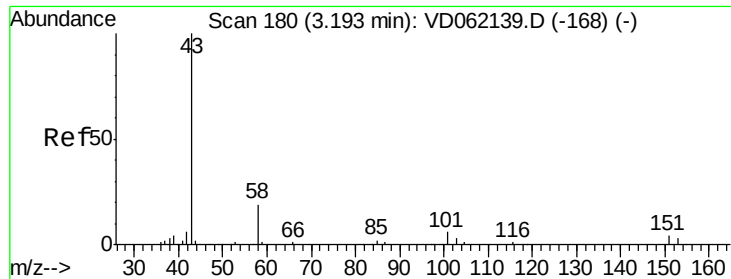
500

0

2.05 2.10 2.15 2.20

Time-->





#16

Acetone

Concen: 2.794 ug/l

RT: 3.19 min Scan# 179

Delta R.T. -0.01 min

Lab File: VD062145.D

Acq: 7 May 2019 21:28

Instrument :

MSVOA\_D

ClientSampleId :

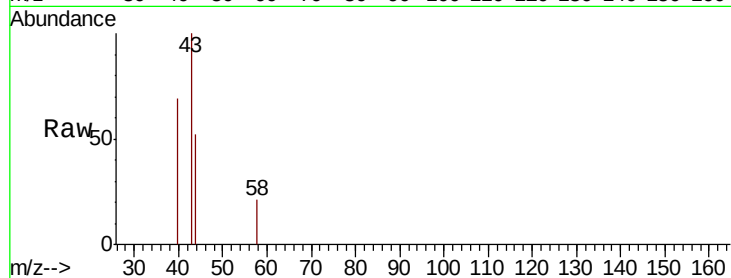
VD0507SBL01

Tot Ion: 43 Resp: 4191

Ion Ratio Lower Upper

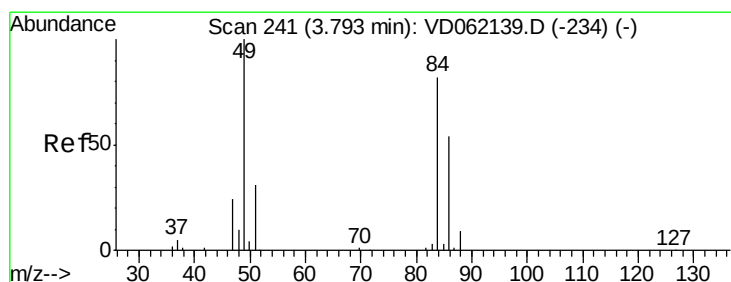
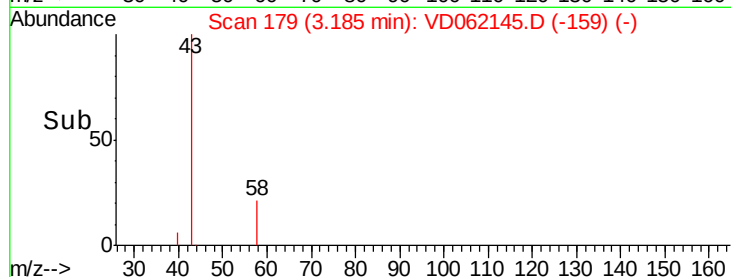
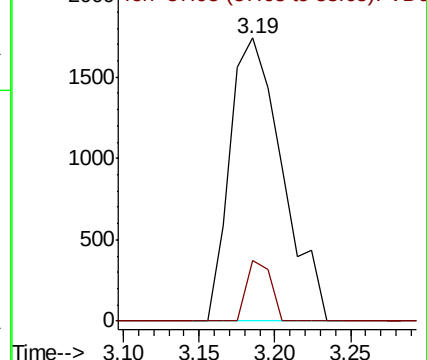
43 100

58 21.2 19.9 29.9



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#20

Methylene Chloride

Concen: 11.378 ug/l

RT: 3.78 min Scan# 239

Delta R.T. -0.02 min

Lab File: VD062145.D

Acq: 7 May 2019 21:28

Tgt Ion: 84 Resp: 71255

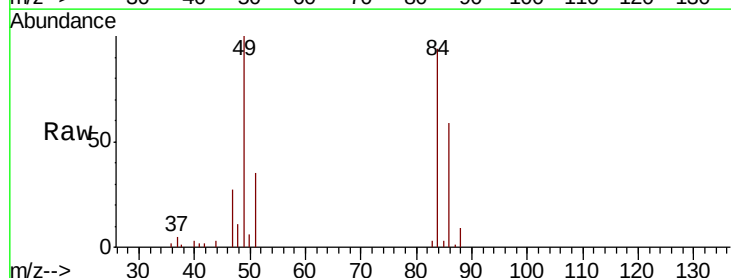
Ion Ratio Lower Upper

84 100

49 106.8 94.0 141.0

51 37.4 29.0 43.4

86 62.6 49.8 74.6

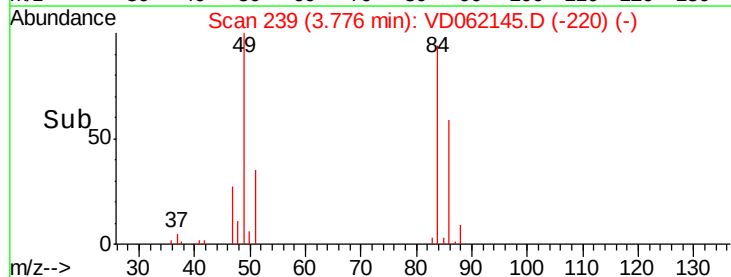
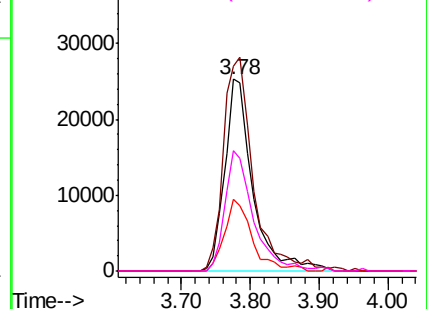


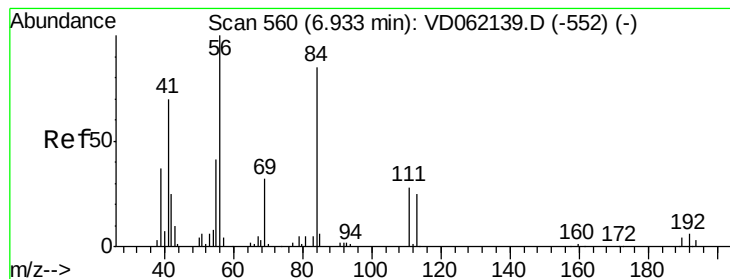
Abundance Ion 83.95 (83.65 to 84.65): VDC

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: 1.763 ug/l

RT: 7.00 min Scan# 567

Delta R.T. 0.07 min

Lab File: VD062145.D

Acq: 7 May 2019 21:28

Instrument :

MSVOA\_D

ClientSampleId :

VD0507SBL01

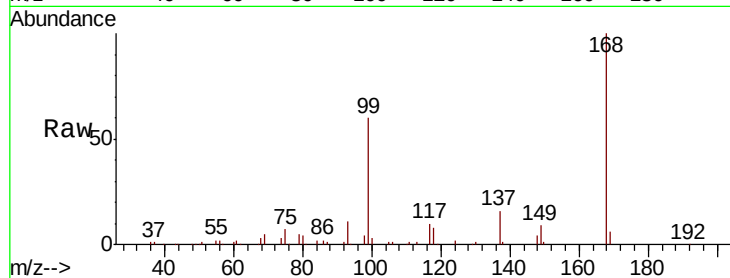
Tot Ion: 56 Resp: 13229

Ion Ratio Lower Upper

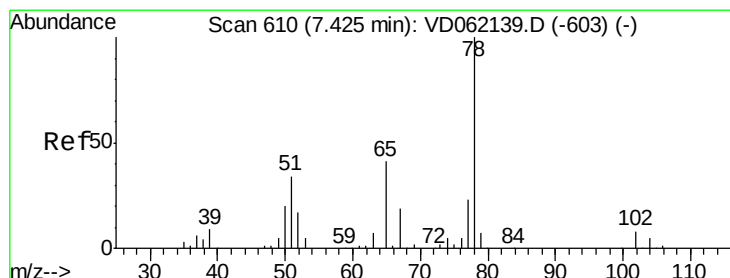
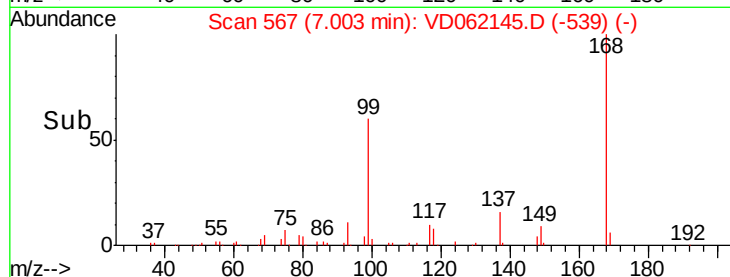
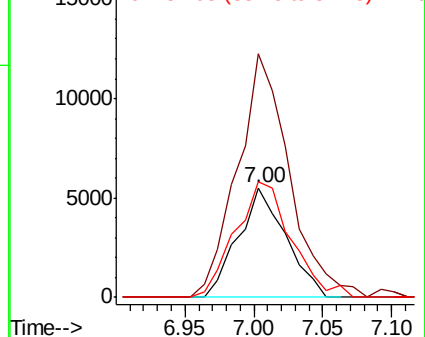
56 100

69 222.8 25.8 38.6#

84 106.3 72.2 108.4



Abundance Ion 55.95 (55.65 to 56.65): VDC  
Ion 69.00 (68.70 to 69.70): VDC  
Ion 84.05 (83.75 to 84.75): VDC



#33

1,2-Dichloroethane-d4

Concen: 55.141 ug/l

RT: 7.42 min Scan# 609

Delta R.T. -0.01 min

Lab File: VD062145.D

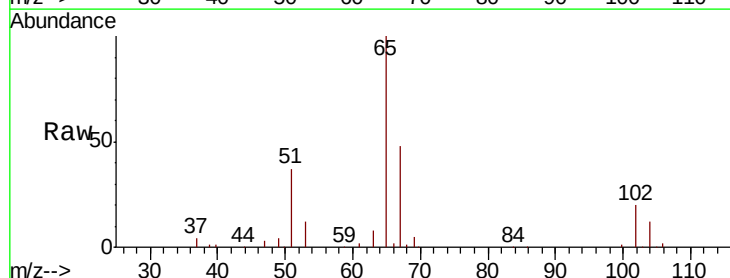
Acq: 7 May 2019 21:28

Tgt Ion: 65 Resp: 394358

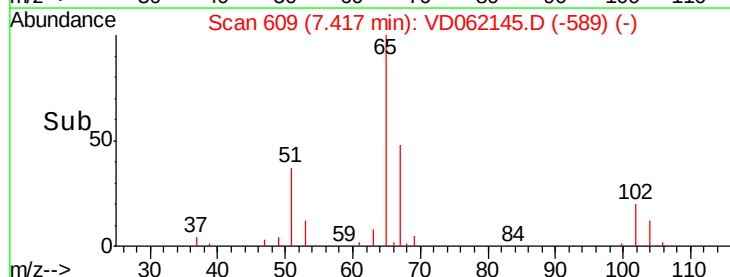
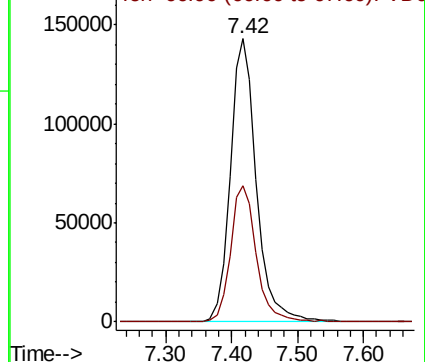
Ion Ratio Lower Upper

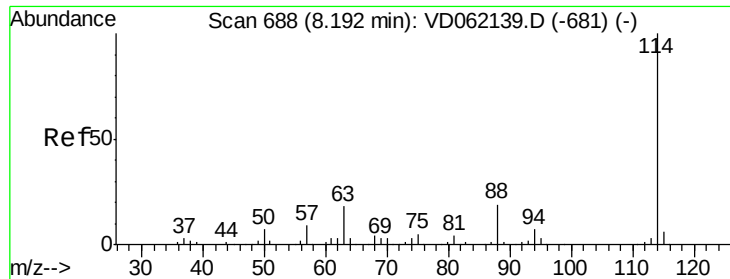
65 100

67 48.2 0.0 98.0



Abundance Ion 64.95 (64.65 to 65.65): VDC  
Ion 66.90 (66.60 to 67.60): VDC





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.18 min Scan# 687

Delta R.T. -0.01 min

Lab File: VD062145.D

Acq: 7 May 2019 21:28

Instrument :

MSVOA\_D

ClientSampleId :

VD0507SBL01

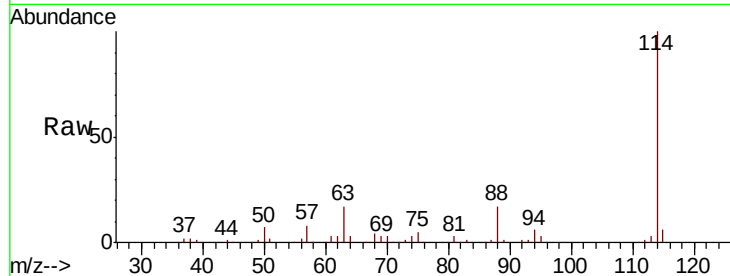
Tot Ion:114 Resp: 1116036

Ion Ratio Lower Upper

114 100

63 17.2 0.0 32.4

88 17.1 0.0 33.6



Abundance Ion 114.00 (113.70 to 114.70): V

Ion 62.95 (62.65 to 63.65): V

Ion 87.90 (87.60 to 88.60): V

8.18

400000

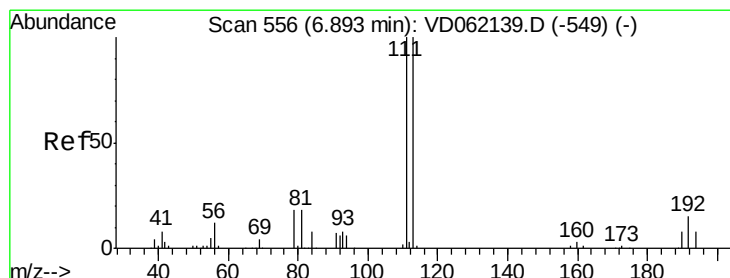
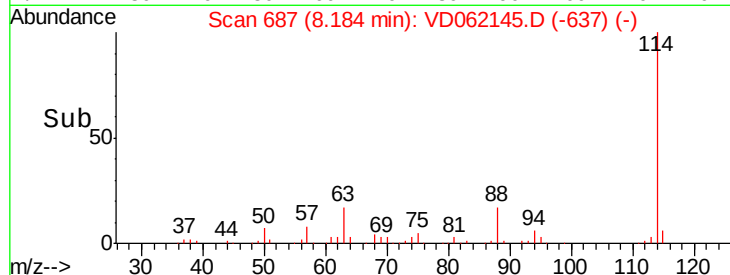
300000

200000

100000

0

Time-->



#35

Dibromofluoromethane

Concen: 56.439 ug/l

RT: 6.89 min Scan# 555

Delta R.T. -0.01 min

Lab File: VD062145.D

Acq: 7 May 2019 21:28

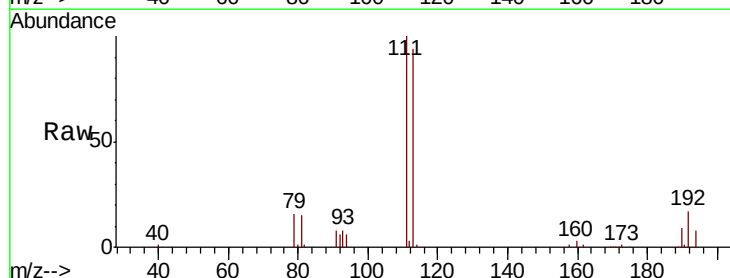
Tgt Ion:113 Resp: 522618

Ion Ratio Lower Upper

113 100

111 106.0 78.5 117.7

192 18.2 13.0 19.4



Abundance Ion 112.90 (112.60 to 113.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 191.80 (191.50 to 192.50): V

6.89

250000

200000

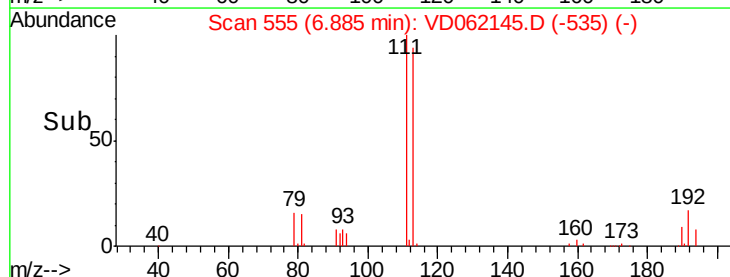
150000

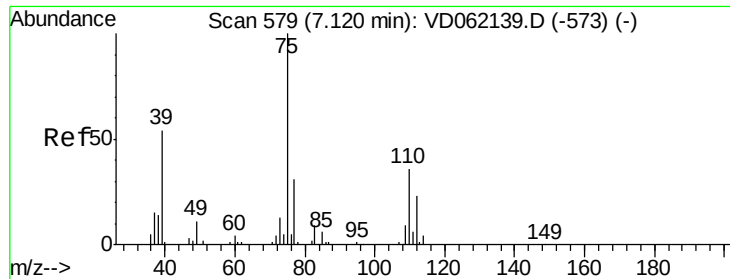
100000

50000

0

Time-->

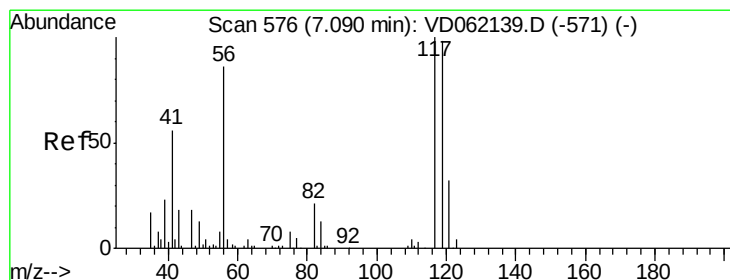
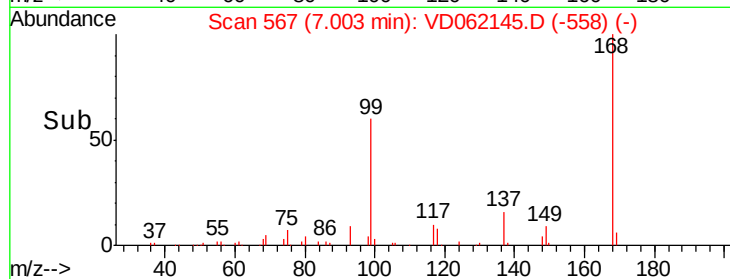
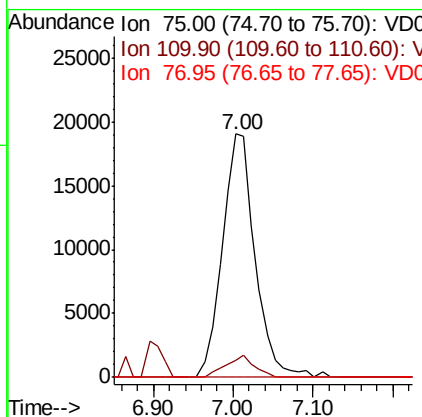
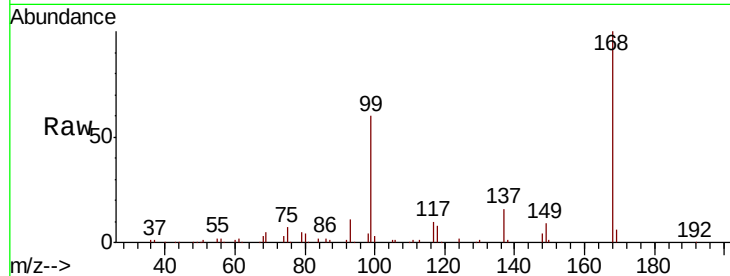




#36  
 1,1-Dichloropropene  
 Concen: 5.971 ug/l  
 RT: 7.00 min Scan# 567  
 Delta R.T. -0.12 min  
 Lab File: VD062145.D  
 Acq: 7 May 2019 21:28

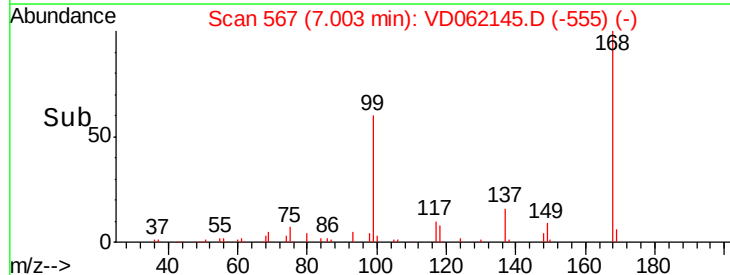
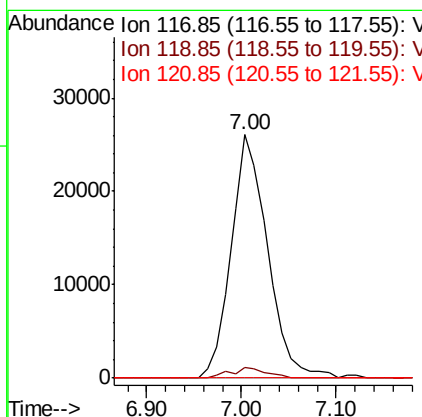
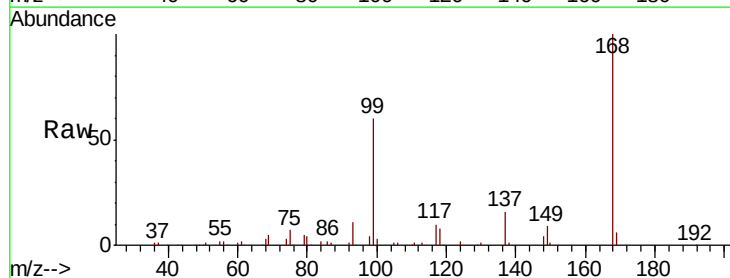
Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VD0507SBL01

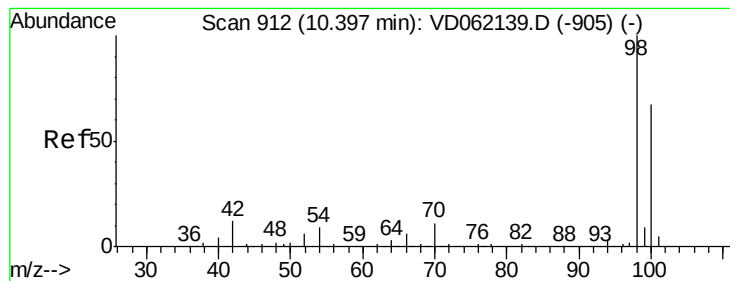
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 6.8   | 19.1  | 57.1# |
| 77      | 0.0   | 25.6  | 38.4# |



#38  
 Carbon Tetrachloride  
 Concen: 5.465 ug/l  
 RT: 7.00 min Scan# 567  
 Delta R.T. -0.09 min  
 Lab File: VD062145.D  
 Acq: 7 May 2019 21:28

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 117     | 100   |       |        |
| 119     | 4.4   | 75.8  | 113.8# |
| 121     | 0.0   | 25.9  | 38.9#  |





#50

Toluene-d8

Concen: 53.355 ug/l

RT: 10.38 min Scan# 910

Delta R.T. -0.02 min

Lab File: VD062145.D

Acq: 7 May 2019 21:28

Instrument :

MSVOA\_D

ClientSampleId :

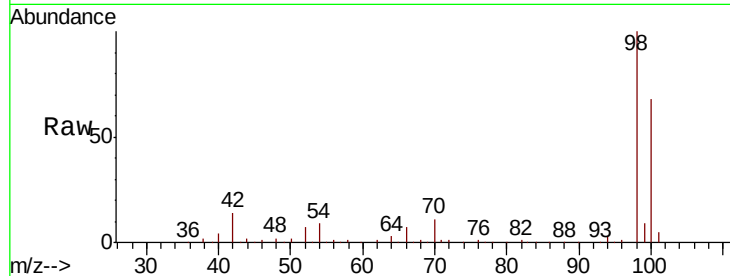
VD0507SBL01

Tot Ion: 98 Resp: 1191207

Ion Ratio Lower Upper

98 100

100 67.9 53.8 80.8



Abundance Ion 98.05 (97.75 to 98.75): VD062139.D (-905) (-)

Ion 100.05 (99.75 to 100.75): VD062139.D (-905) (-)

10.38

500000

400000

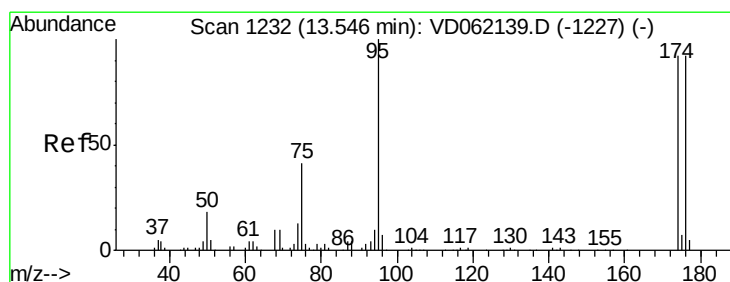
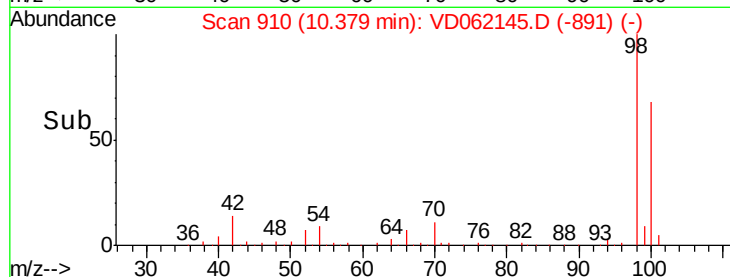
300000

200000

100000

0

Time-->



#62

4-Bromofluorobenzene

Concen: 53.911 ug/l

RT: 13.54 min Scan# 1231

Delta R.T. -0.01 min

Lab File: VD062145.D

Acq: 7 May 2019 21:28

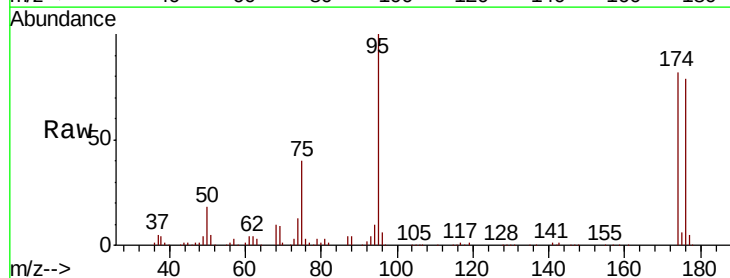
Tgt Ion: 95 Resp: 483337

Ion Ratio Lower Upper

95 100

174 81.6 0.0 181.8

176 79.0 0.0 174.4



Abundance Ion 95.00 (94.70 to 95.70): VD062139.D (-1227) (-)

Ion 173.90 (173.60 to 174.60): VD062139.D (-1227) (-)

Ion 175.90 (175.60 to 176.60): VD062139.D (-1227) (-)

500000

400000

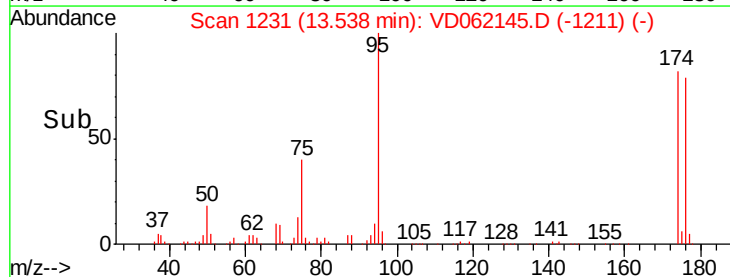
300000

200000

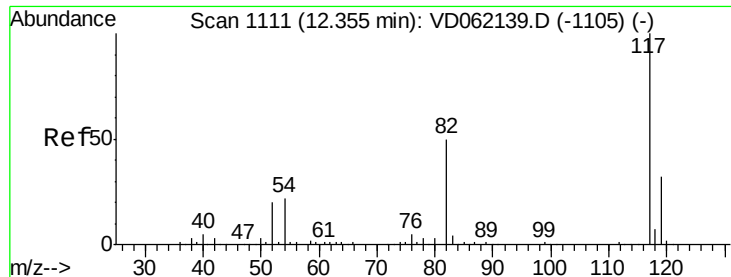
100000

0

Time-->



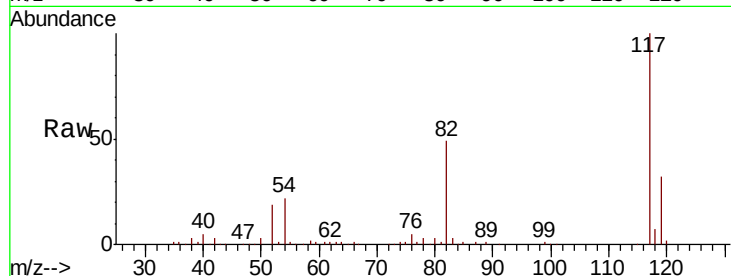




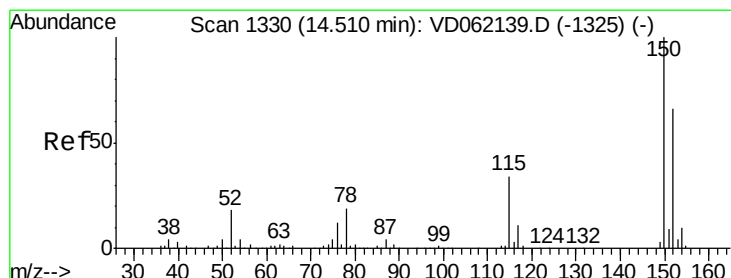
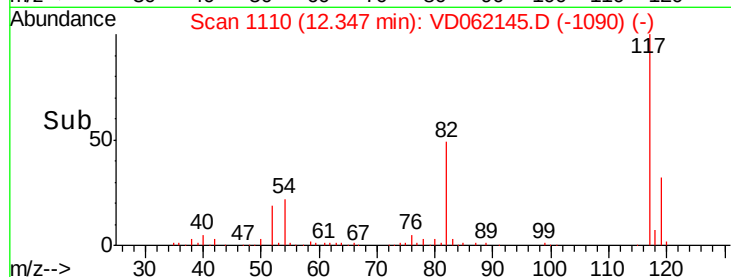
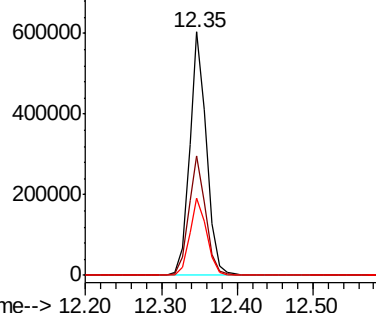
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 12.35 min Scan# 1110  
Delta R.T. -0.01 min  
Lab File: VD062145.D  
Acq: 7 May 2019 21:28

Instrument :  
MSVOA\_D  
ClientSampleId :  
VD0507SBL01

Tot Ion:117 Resp: 937252  
Ion Ratio Lower Upper  
117 100  
82 49.3 36.2 54.2  
119 31.8 26.2 39.4

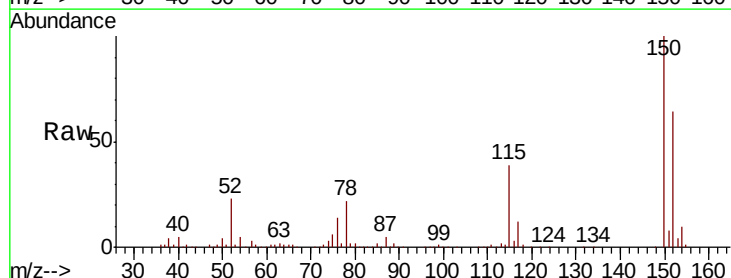


Abundance Ion 116.95 (116.65 to 117.65): V  
Ion 82.05 (81.75 to 82.75): V  
Ion 118.95 (118.65 to 119.65): V

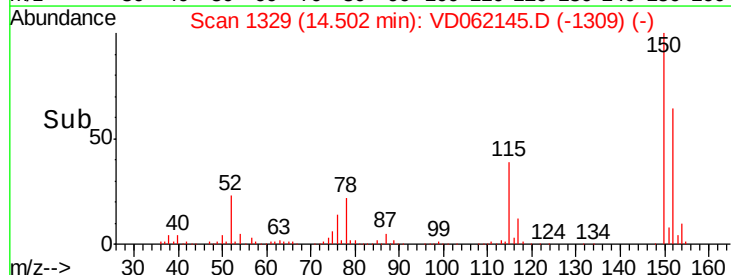
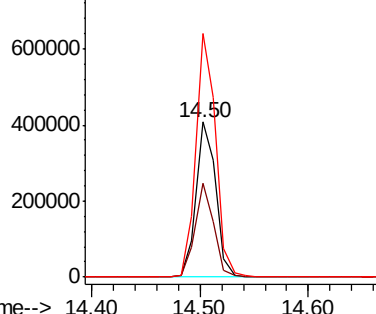


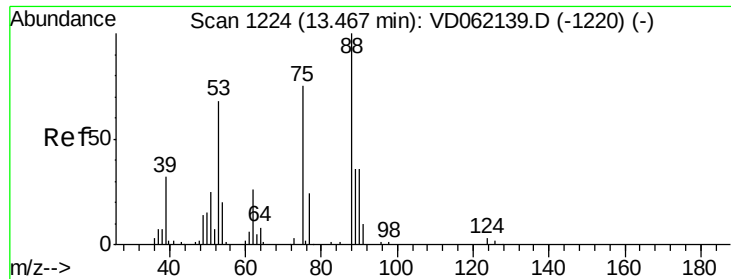
#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 14.50 min Scan# 1329  
Delta R.T. -0.01 min  
Lab File: VD062145.D  
Acq: 7 May 2019 21:28

Tgt Ion:152 Resp: 517148  
Ion Ratio Lower Upper  
152 100  
115 60.9 30.9 92.7  
150 156.9 0.0 314.8



Abundance Ion 151.90 (151.60 to 152.60): V  
Ion 115.00 (114.70 to 115.70): V  
Ion 149.90 (149.60 to 150.60): V





#81

trans-1,4-Dichloro-2-butene

Concen: 111.111 ug/l

RT: 13.54 min Scan# 1231

Delta R.T. 0.07 min

Lab File: VD062145.D

Acq: 7 May 2019 21:28

Instrument :

MSVOA\_D

ClientSampleId :

VD0507SBL01

Tot Ion: 75 Resp: 192779

Ion Ratio Lower Upper

75 100

53 0.0 65.8 98.8#

89 0.0 35.0 52.6#

