

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD061219\  
 Data File : VD062676.D  
 Acq On : 12 Jun 2019 16:08  
 Operator : VA/AP  
 Sample : K3273-14RE  
 Misc : 4.86g/5ml/MSVOA D/SOIL  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 SB-8 9.5-10.0 060719RE

Quant Time: Jun 13 07:24:56 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D060719S.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Jun 08 00:02:21 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.04  | 168  | 633923   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.21  | 114  | 900225   | 50.00 | ug/l  | -0.01    |
| 63) Chlorobenzene-d5       | 12.36 | 117  | 719344   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 14.52 | 152  | 413077   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|-------|--------|----------|
| 33) 1,2-Dichloroethane-d4   | 7.44  | 65   | 301124   | 32.92 | ug/l   | -0.01    |
| Spiked Amount               |       |      | Recovery | =     | 65.84% |          |
| 35) Dibromofluoromethane    | 6.91  | 113  | 349032   | 36.76 | ug/l   | -0.01    |
| Spiked Amount               |       |      | Recovery | =     | 73.52% |          |
| 50) Toluene-d8              | 10.40 | 98   | 662873   | 33.19 | ug/l   | -0.01    |
| Spiked Amount               |       |      | Recovery | =     | 66.38% |          |
| 62) 4-Bromofluorobenzene    | 13.55 | 95   | 291440   | 31.28 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 62.56% |          |

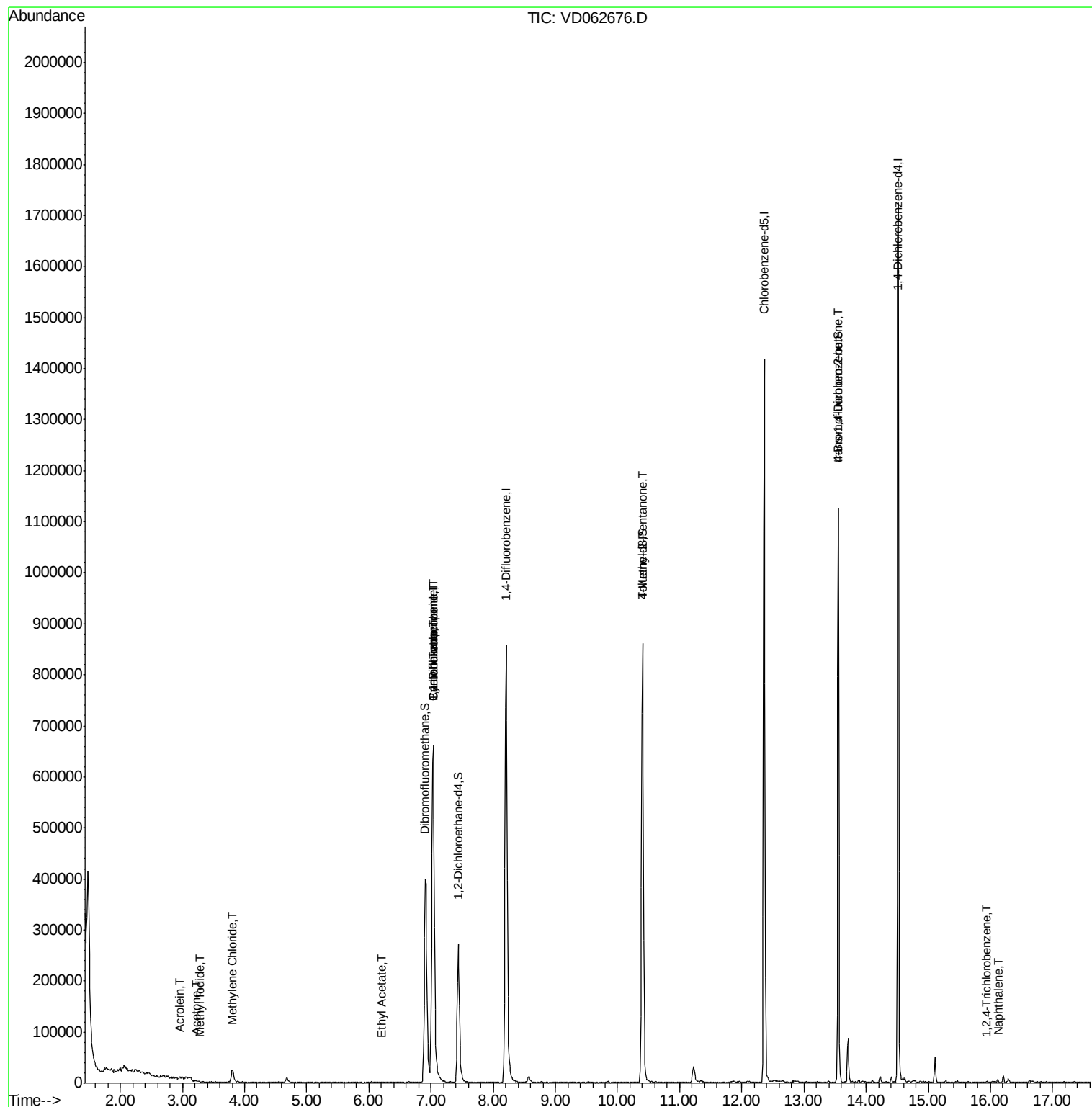
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 2) Dichlorodifluoromethane     | 1.57  | 85   | 1116     | Below Cal |        | 94     |
| 10) Methyl Iodide              | 3.28  | 142  | 730      | 4.068     | ug/l # | 1      |
| 13) Acrolein                   | 2.95  | 56   | 356      | 2.943     | ug/l # | 12     |
| 16) Acetone                    | 3.23  | 43   | 7252     | 4.329     | ug/l # | 66     |
| 20) Methylene Chloride         | 3.80  | 84   | 15936    | 2.095     | ug/l # | 82     |
| 31) Cyclohexane                | 7.03  | 56   | 16026    | 2.220     | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 7.03  | 75   | 52591    | 5.104     | ug/l # | 50     |
| 37) Ethyl Acetate              | 6.19  | 43   | 250      | 1.256     | ug/l # | 74     |
| 38) Carbon Tetrachloride       | 7.04  | 117  | 67556    | 4.148     | ug/l # | 18     |
| 51) 4-Methyl-2-Pentanone       | 10.40 | 43   | 3994     | 1.050     | ug/l # | 1      |
| 81) trans-1,4-Dichloro-2-buten | 13.55 | 75   | 142645   | 83.085    | ug/l # | 1      |
| 93) 1,2,4-Trichlorobenzene     | 15.94 | 180  | 479      | 3.610     | ug/l # | 50     |
| 95) Naphthalene                | 16.12 | 128  | 3449     | 3.664     | ug/l # | 79     |

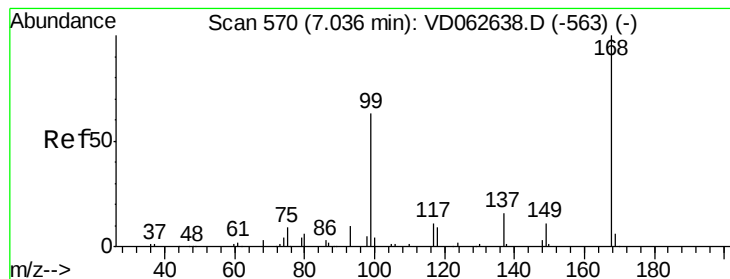
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD061219\  
Data File : VD062676.D  
Acq On : 12 Jun 2019 16:08  
Operator : VA/AP  
Sample : K3273-14RE  
Misc : 4.86g/5ml/MSVOA D/SOIL  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
SB-8 9.5-10.0 060719RE

Quant Time: Jun 13 07:24:56 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_D\METHOD\82D060719S.M  
Quant Title : SW846 8260  
QLast Update : Sat Jun 08 00:02:21 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.04 min Scan# 570

Delta R.T. -0.00 min

Lab File: VD062676.D

Acq: 12 Jun 2019 16:08

Instrument :

MSVOA\_D

ClientSampleId :

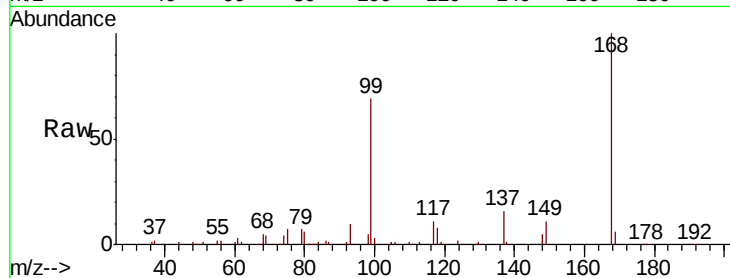
SB-8 9.5-10.0 060719RE

Tot Ion:168 Resp: 633923

Ion Ratio Lower Upper

168 100

99 68.9 51.4 77.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

7.04

250000

200000

150000

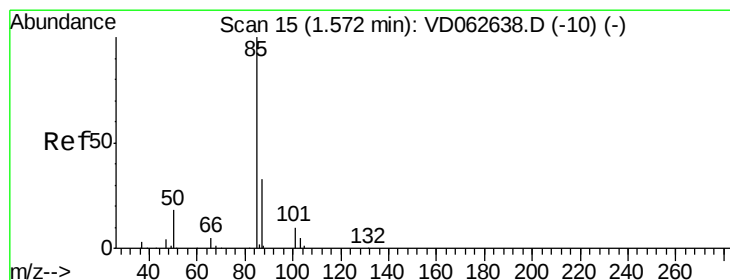
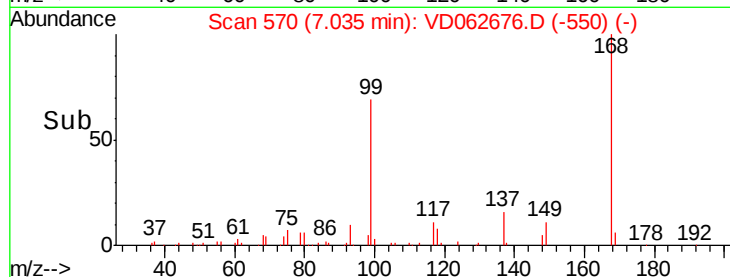
100000

50000

0

Time-->

6.90 7.00 7.10 7.20



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.57 min Scan# 15

Delta R.T. 0.00 min

Lab File: VD062676.D

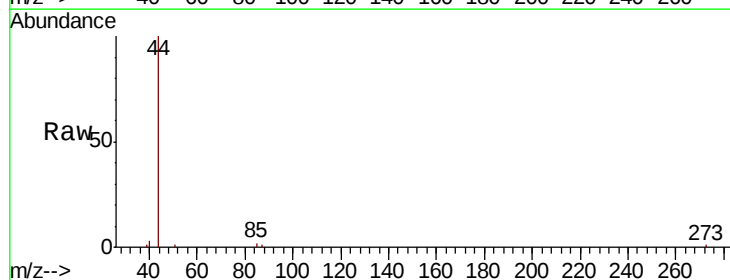
Acq: 12 Jun 2019 16:08

Tgt Ion: 85 Resp: 1116

Ion Ratio Lower Upper

85 100

87 36.4 16.6 49.7



Abundance Ion 84.95 (84.65 to 85.65): VDC

Ion 86.90 (86.60 to 87.60): VDC

1200

1000

800

600

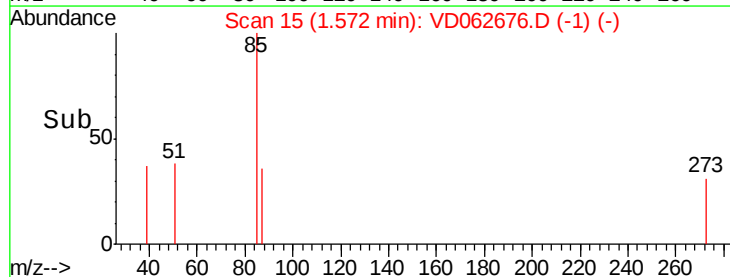
400

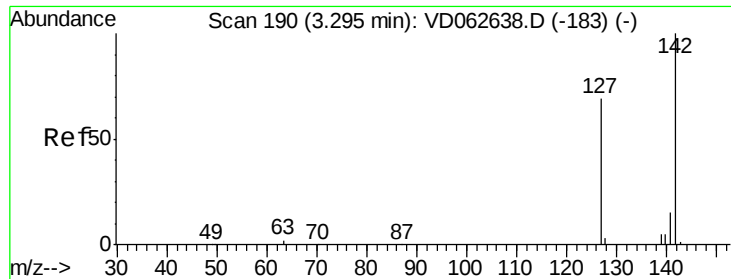
200

0

Time-->

1.55 1.60

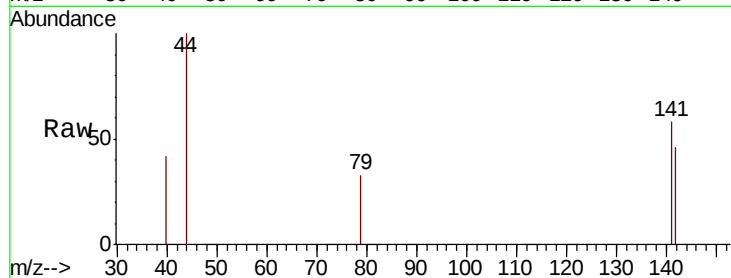




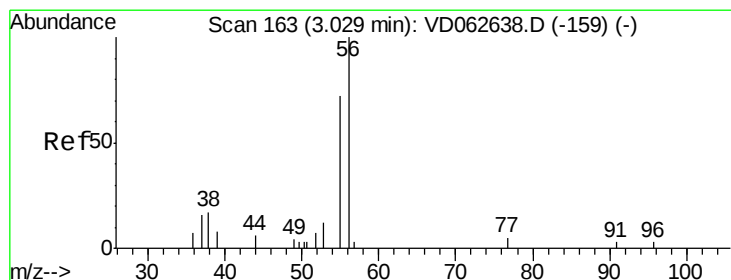
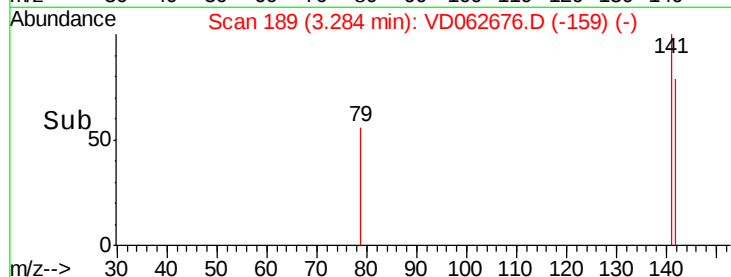
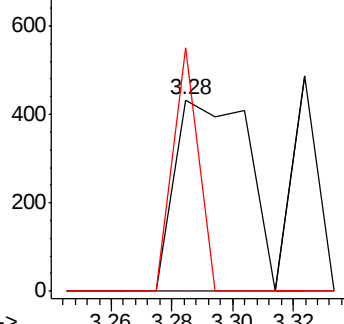
#10  
Methvl Iodide  
Concen: 4.068 ug/l  
RT: 3.28 min Scan# 189  
Delta R.T. -0.01 min  
Lab File: VD062676.D  
Acq: 12 Jun 2019 16:08

Instrument :  
MSVOA\_D  
ClientSampleId :  
SB-8 9.5-10.0\_060719RE

Tot Ion:142 Resp: 730  
Ion Ratio Lower Upper  
142 100  
127 0.0 55.2 82.8#  
141 127.3 12.1 18.1#

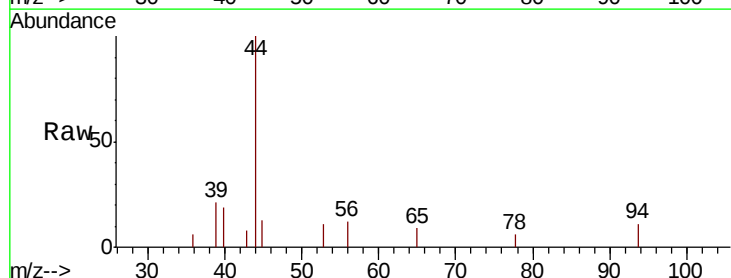


Abundance Ion 141.85 (141.55 to 142.55): V  
Ion 126.80 (126.50 to 127.50): V  
Ion 140.85 (140.55 to 141.55): V

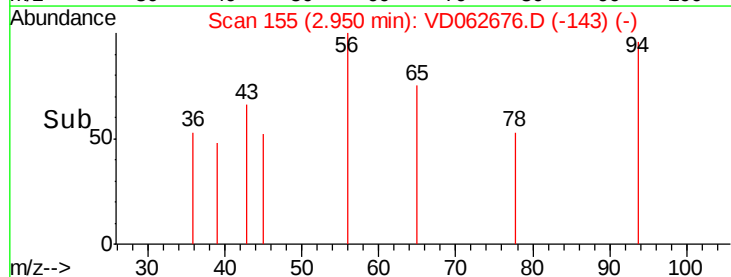
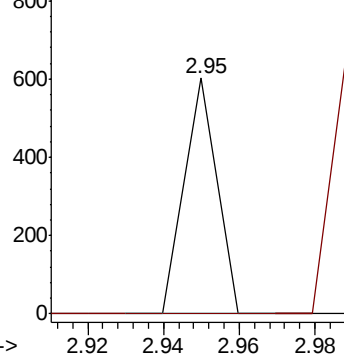


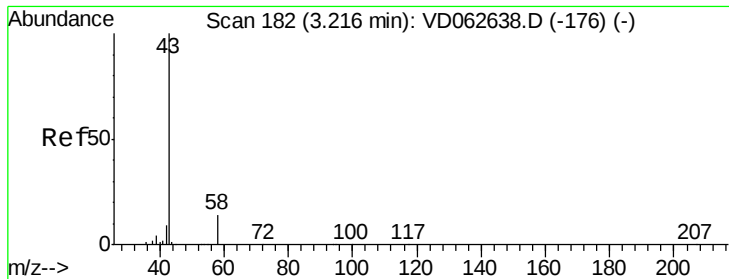
#13  
Acrolein  
Concen: 2.943 ug/l  
RT: 2.95 min Scan# 155  
Delta R.T. -0.08 min  
Lab File: VD062676.D  
Acq: 12 Jun 2019 16:08

Tgt Ion: 56 Resp: 356  
Ion Ratio Lower Upper  
56 100  
55 0.0 59.4 89.0#



Abundance Ion 55.95 (55.65 to 56.65): VDC  
Ion 55.00 (54.70 to 55.70): VDC





#16

Acetone

Concen: 4.329 ug/l

RT: 3.23 min Scan# 183

Delta R.T. 0.01 min

Lab File: VD062676.D

Acq: 12 Jun 2019 16:08

Instrument :

MSVOA\_D

ClientSampleId :

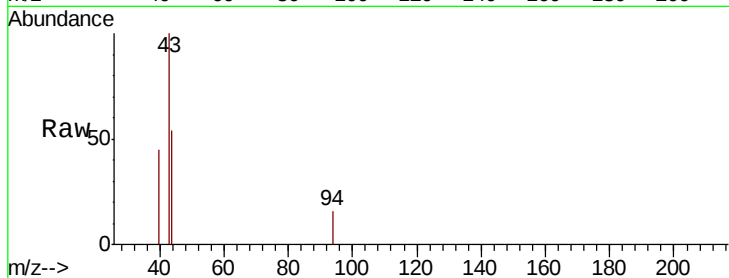
SB-8 9.5-10.0 060719RE

Tot Ion: 43 Resp: 7252

Ion Ratio Lower Upper

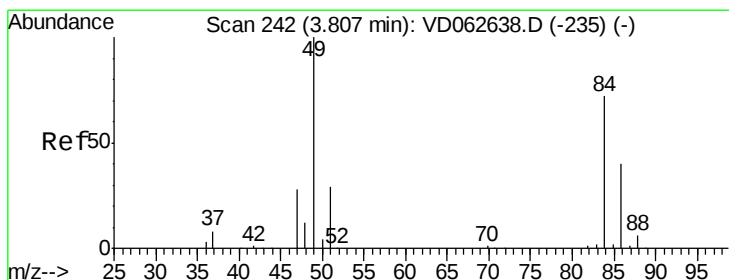
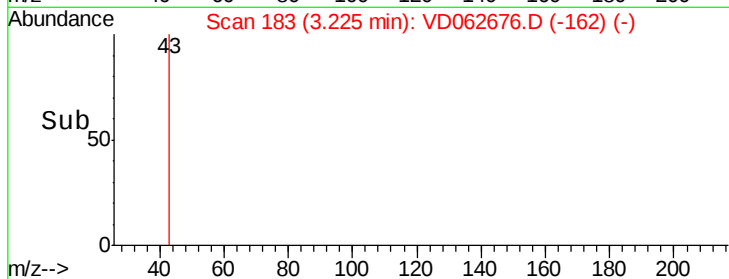
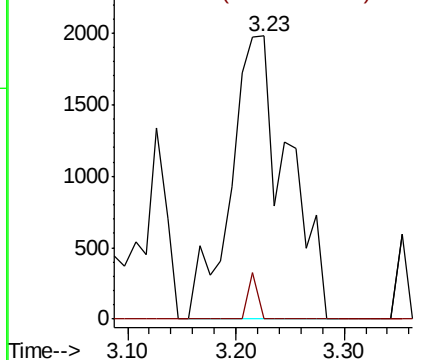
43 100

58 0.0 10.8 16.2#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#20

Methylene Chloride

Concen: 2.095 ug/l

RT: 3.80 min Scan# 241

Delta R.T. -0.01 min

Lab File: VD062676.D

Acq: 12 Jun 2019 16:08

Tgt Ion: 84 Resp: 15936

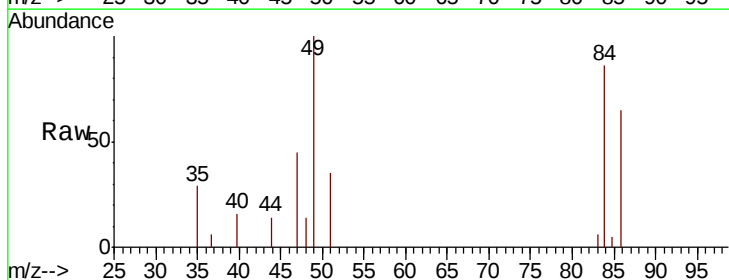
Ion Ratio Lower Upper

84 100

49 116.8 111.2 166.8

51 40.9 31.9 47.9

86 76.4 44.7 67.1#

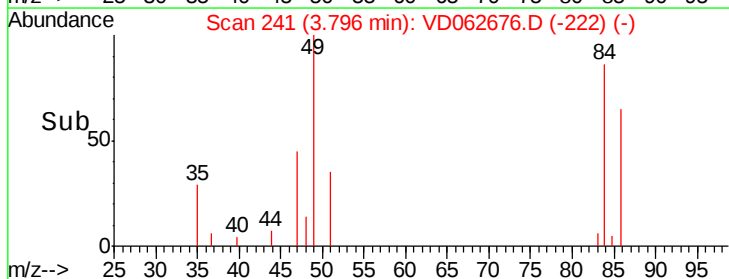
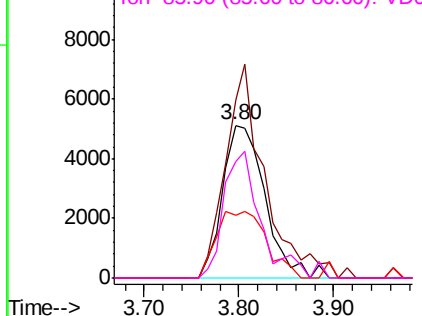


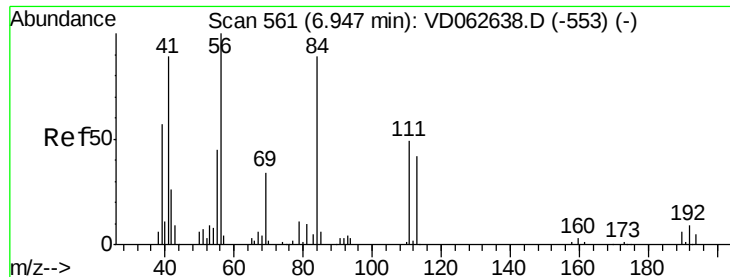
Abundance Ion 83.95 (83.65 to 84.65): VDC

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

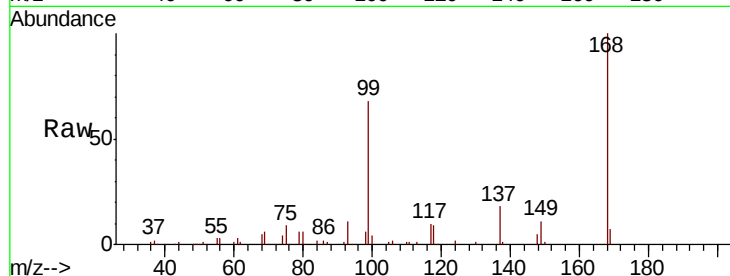




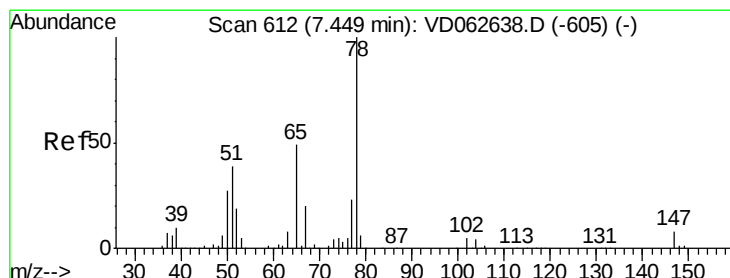
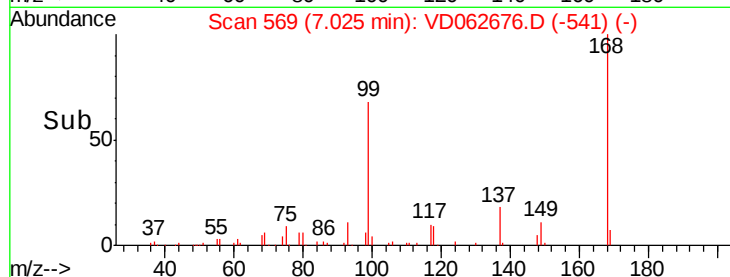
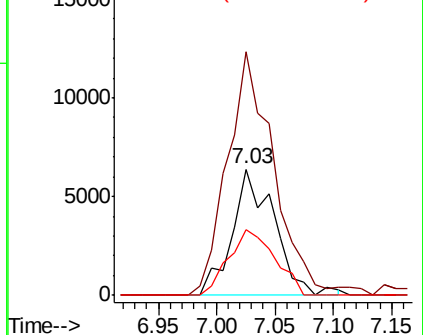
#31  
Cvclohexane  
Concen: 2.220 ug/l  
RT: 7.03 min Scan# 569  
Delta R.T. 0.08 min  
Lab File: VD062676.D  
Acq: 12 Jun 2019 16:08

Instrument :  
MSVOA\_D  
ClientSampleId :  
SB-8 9.5-10.0 060719RE

Tot Ion: 56 Resp: 16026  
Ion Ratio Lower Upper  
56 100  
69 193.1 26.8 40.2#  
84 52.2 73.9 110.9#

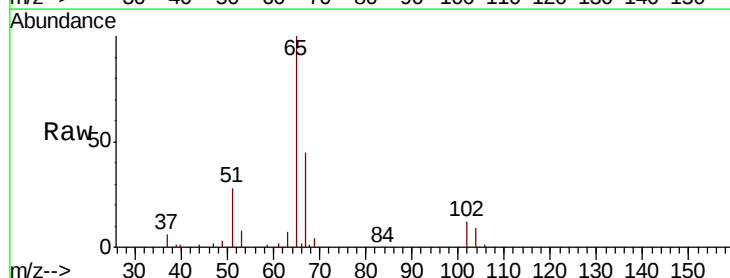


Abundance Ion 55.95 (55.65 to 56.65): VDC  
Ion 69.00 (68.70 to 69.70): VDC  
Ion 84.05 (83.75 to 84.75): VDC

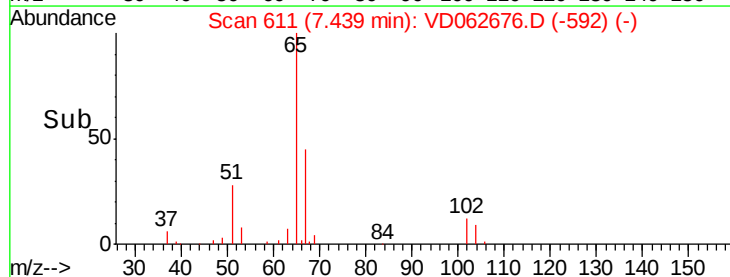
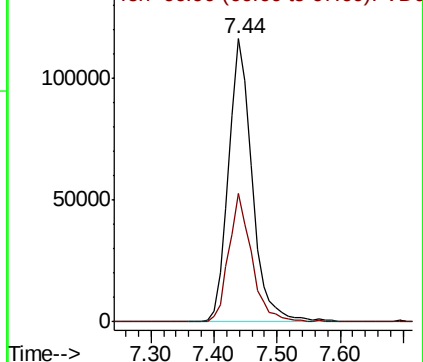


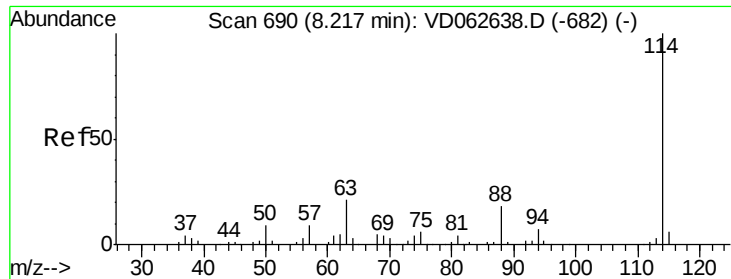
#33  
1,2-Dichloroethane-d4  
Concen: 32.919 ug/l  
RT: 7.44 min Scan# 611  
Delta R.T. -0.01 min  
Lab File: VD062676.D  
Acq: 12 Jun 2019 16:08

Tgt Ion: 65 Resp: 301124  
Ion Ratio Lower Upper  
65 100  
67 45.4 0.0 81.8



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

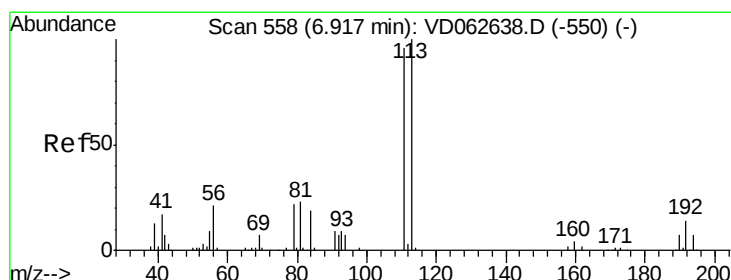
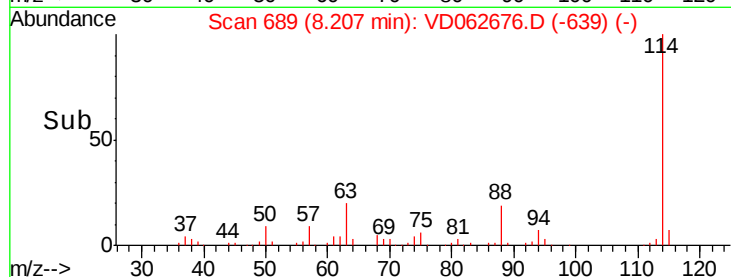
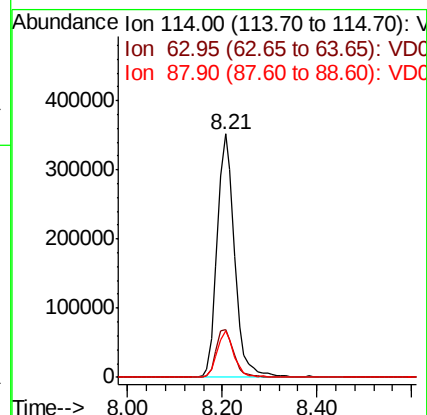
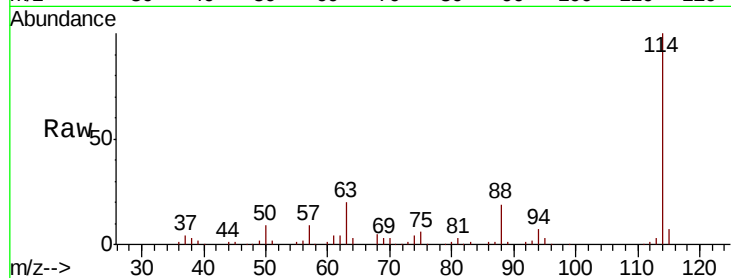




#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.21 min Scan# 689  
 Delta R.T. -0.01 min  
 Lab File: VD062676.D  
 Acq: 12 Jun 2019 16:08

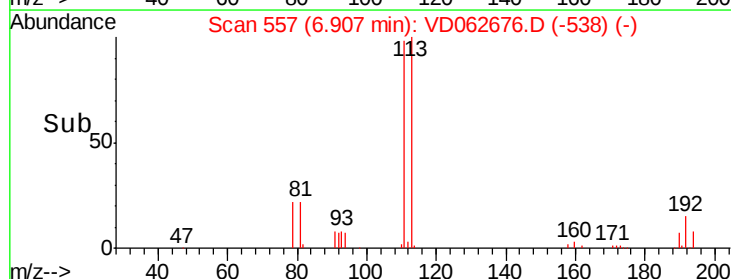
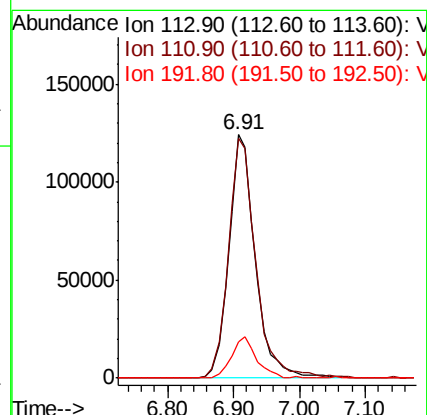
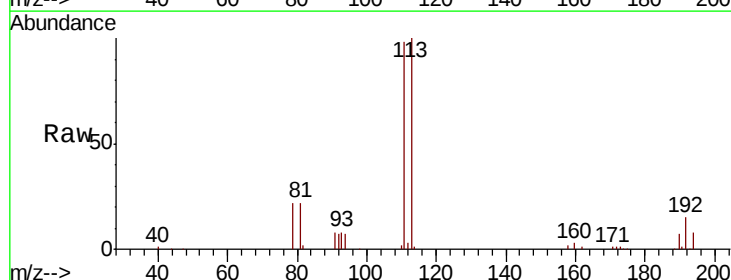
Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 SB-8 9.5-10.0 060719RE

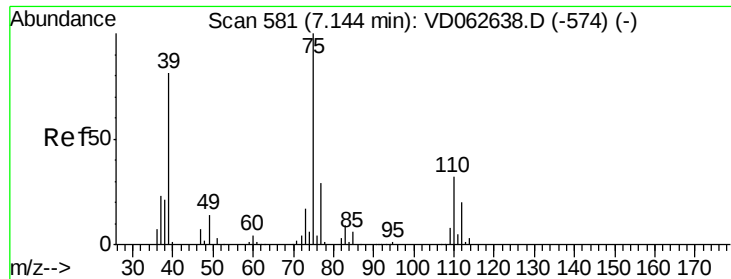
|             |       |          |
|-------------|-------|----------|
| Tot Ion:114 | Resp: | 900225   |
| Ion Ratio   | Lower | Upper    |
| 114         | 100   |          |
| 63          | 19.8  | 0.0 42.4 |
| 88          | 19.2  | 0.0 36.8 |



#35  
 Dibromofluoromethane  
 Concen: 36.763 ug/l  
 RT: 6.91 min Scan# 557  
 Delta R.T. -0.01 min  
 Lab File: VD062676.D  
 Acq: 12 Jun 2019 16:08

|             |       |            |
|-------------|-------|------------|
| Tgt Ion:113 | Resp: | 349032     |
| Ion Ratio   | Lower | Upper      |
| 113         | 100   |            |
| 111         | 98.3  | 76.4 114.6 |
| 192         | 14.6  | 11.4 17.0  |





#36

1,1-Dichloropropene

Concen: 5.104 ug/l

RT: 7.03 min Scan# 569

Delta R.T. -0.12 min

Lab File: VD062676.D

Acq: 12 Jun 2019 16:08

Instrument :

MSVOA\_D

ClientSampleId :

SB-8 9.5-10.0 060719RE

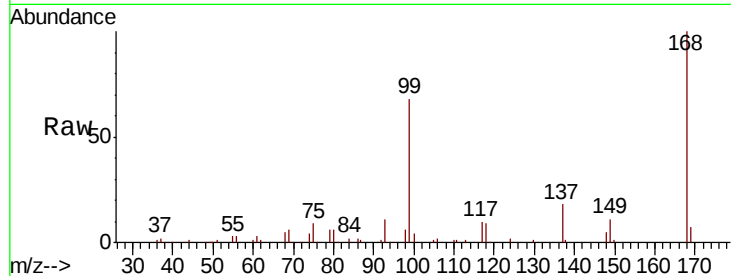
Tot Ion: 75 Resp: 52591

Ion Ratio Lower Upper

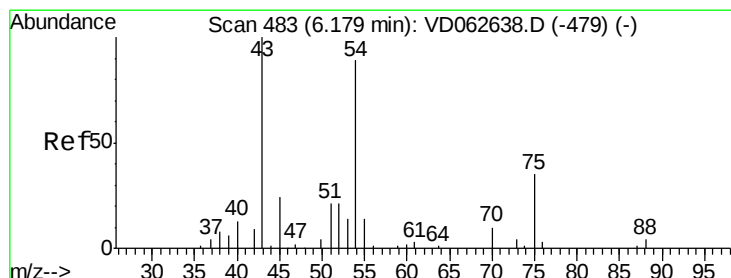
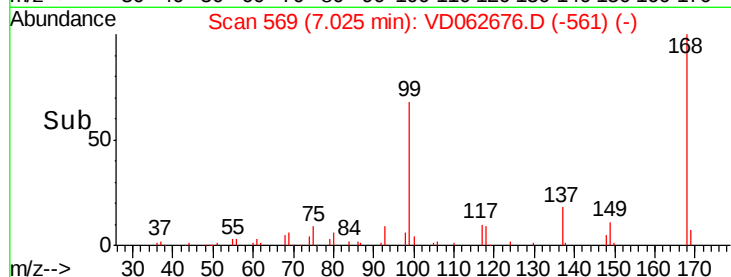
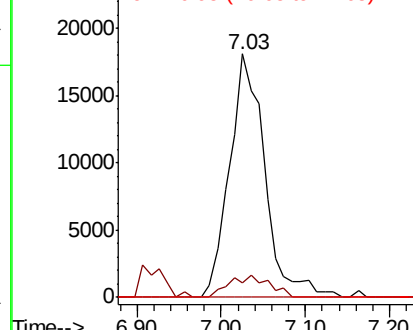
75 100

110 5.9 15.9 47.7#

77 0.0 23.3 34.9#



Abundance Ion 75.00 (74.70 to 75.70): VDC  
Ion 109.90 (109.60 to 110.60): VDC  
Ion 76.95 (76.65 to 77.65): VDC



#37

Ethyl Acetate

Concen: 1.256 ug/l

RT: 6.19 min Scan# 484

Delta R.T. 0.01 min

Lab File: VD062676.D

Acq: 12 Jun 2019 16:08

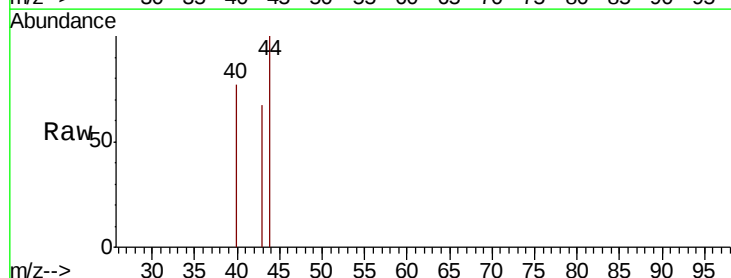
Tgt Ion: 43 Resp: 250

Ion Ratio Lower Upper

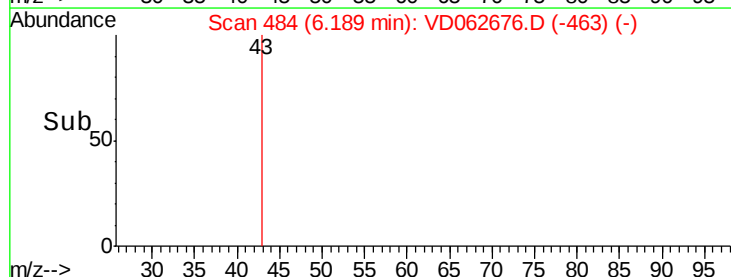
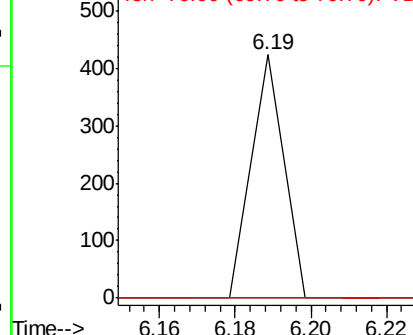
43 100

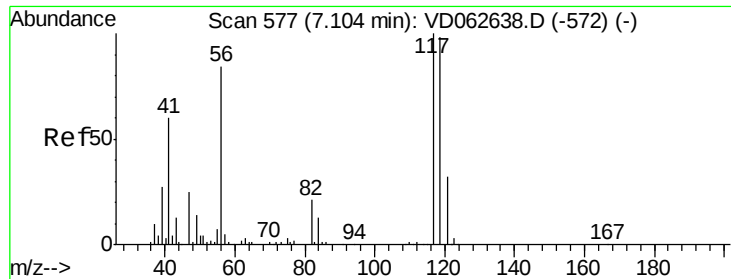
61 0.0 8.7 13.1#

70 0.0 6.5 9.7#



Abundance Ion 42.95 (42.65 to 43.65): VDC  
Ion 60.95 (60.65 to 61.65): VDC  
Ion 70.00 (69.70 to 70.70): VDC

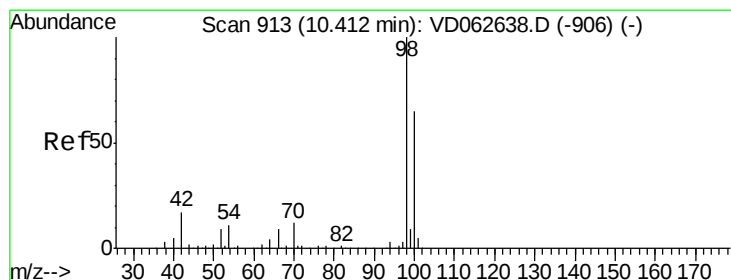
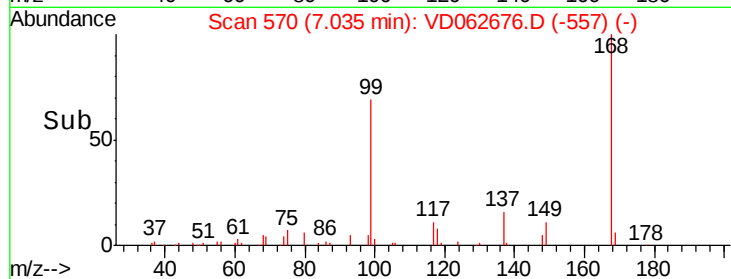
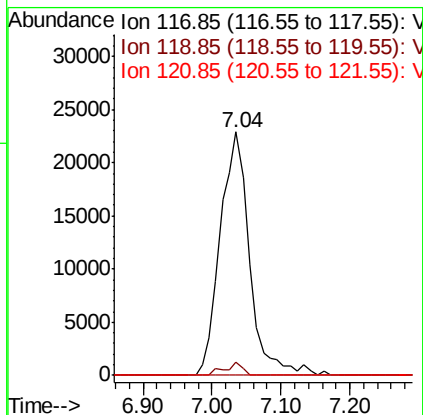
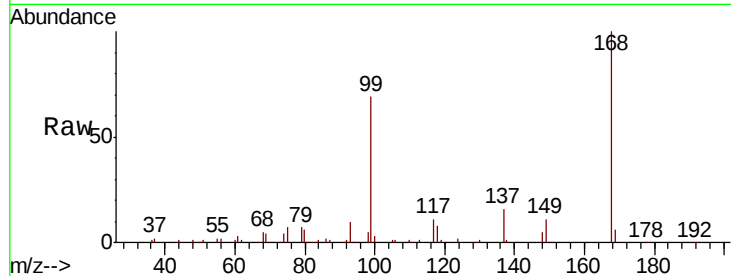




#38  
Carbon Tetrachloride  
Concen: 4.148 ug/l  
RT: 7.04 min Scan# 570  
Delta R.T. -0.07 min  
Lab File: VD062676.D  
Acq: 12 Jun 2019 16:08

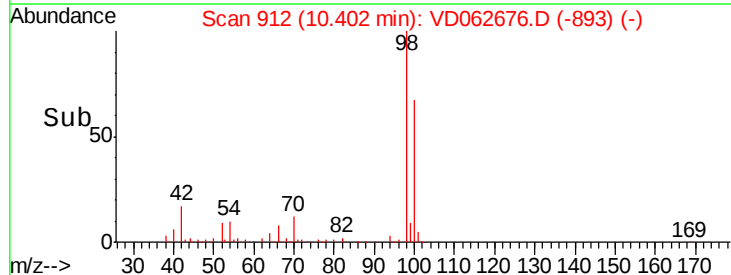
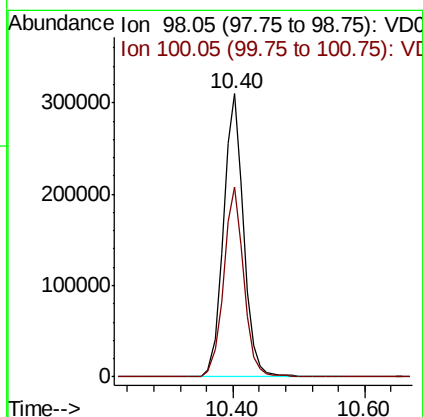
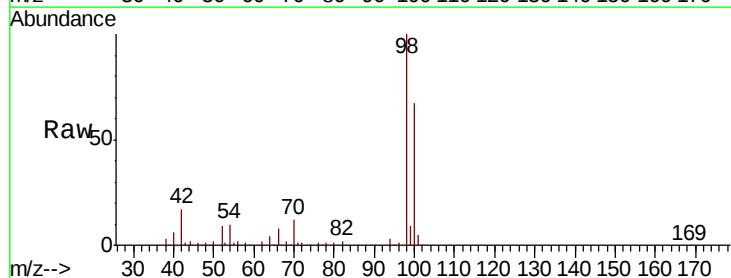
Instrument :  
MSVOA\_D  
ClientSampleId :  
SB-8 9.5-10.0 060719RE

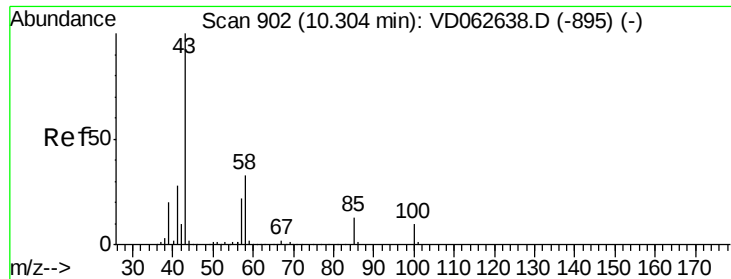
Tot Ion:117 Resp: 67556  
Ion Ratio Lower Upper  
117 100  
119 5.3 73.5 110.3#  
121 0.0 24.2 36.4#



#50  
Toluene-d8  
Concen: 33.190 ug/l  
RT: 10.40 min Scan# 912  
Delta R.T. -0.01 min  
Lab File: VD062676.D  
Acq: 12 Jun 2019 16:08

Tgt Ion: 98 Resp: 662873  
Ion Ratio Lower Upper  
98 100  
100 67.1 52.1 78.1

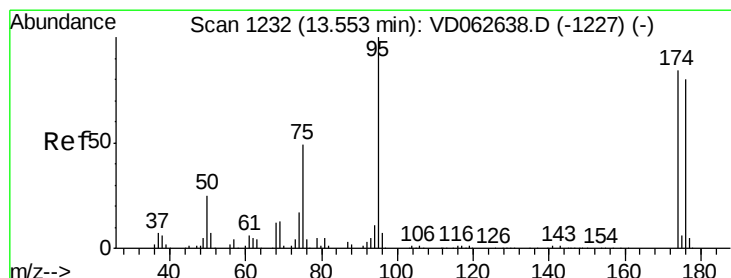
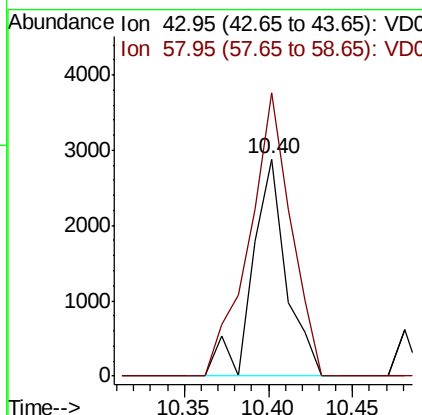
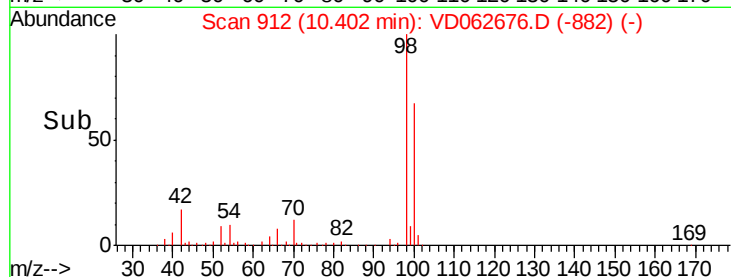
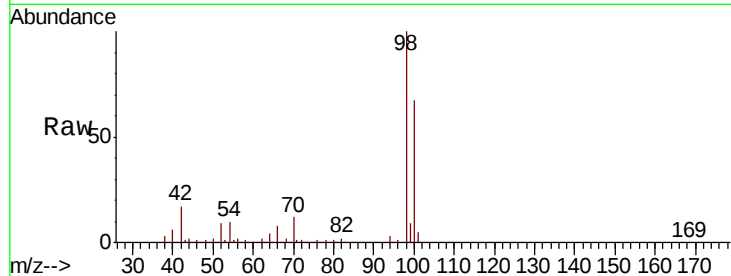




#51  
4-Methyl-2-Pentanone  
Concen: 1.050 ug/l  
RT: 10.40 min Scan# 912  
Delta R.T. 0.10 min  
Lab File: VD062676.D  
Acq: 12 Jun 2019 16:08

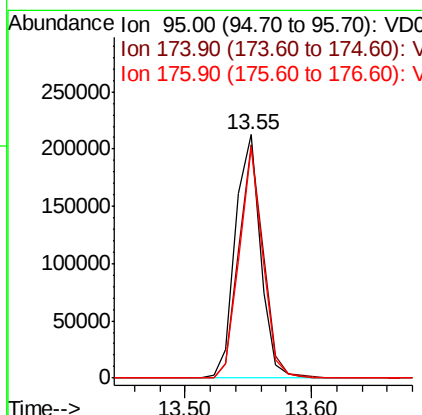
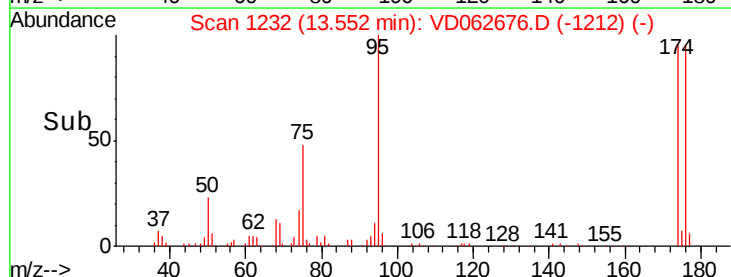
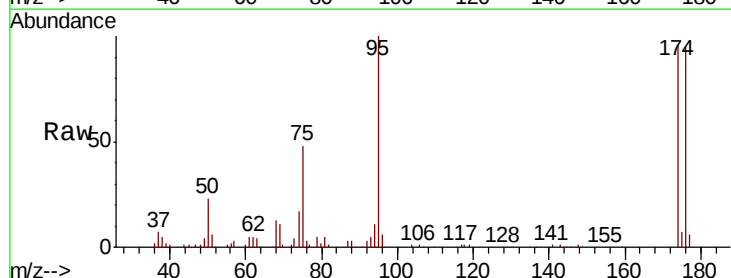
Instrument :  
MSVOA\_D  
ClientSampleId :  
SB-8\_9.5-10.0\_060719RE

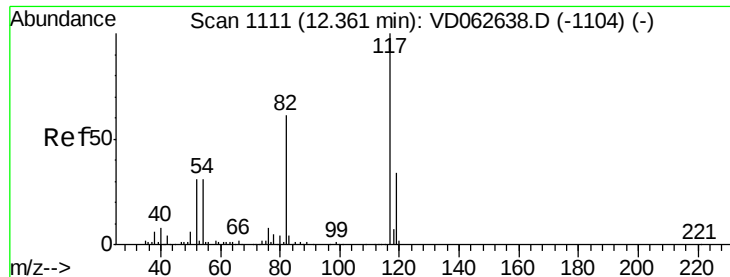
Tot Ion: 43 Resp: 3994  
Ion Ratio Lower Upper  
43 100  
58 130.5 26.1 39.1#



#62  
4-Bromofluorobenzene  
Concen: 31.278 ug/l  
RT: 13.55 min Scan# 1232  
Delta R.T. -0.00 min  
Lab File: VD062676.D  
Acq: 12 Jun 2019 16:08

Tgt Ion: 95 Resp: 291440  
Ion Ratio Lower Upper  
95 100  
174 96.0 0.0 167.0  
176 94.9 0.0 159.2

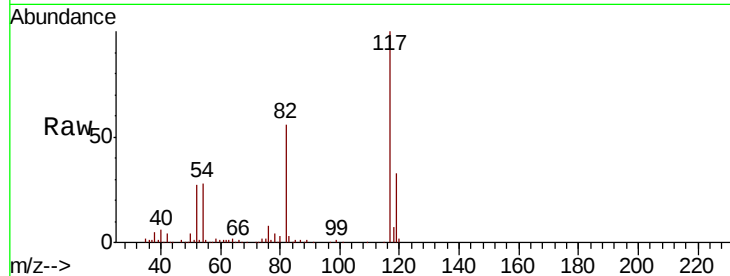




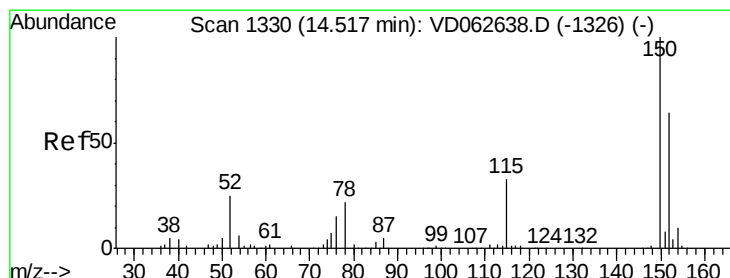
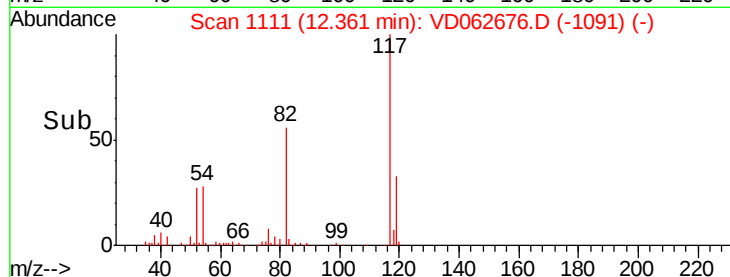
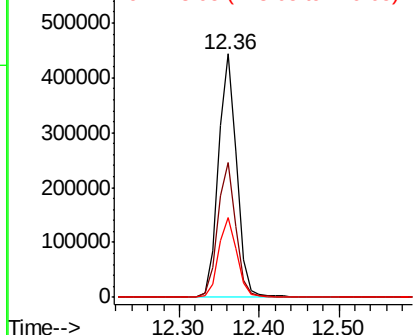
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 12.36 min Scan# 1111  
Delta R.T. -0.00 min  
Lab File: VD062676.D  
Acq: 12 Jun 2019 16:08

Instrument :  
MSVOA\_D  
ClientSampleId :  
SB-8 9.5-10.0 060719RE

Tot Ion:117 Resp: 719344  
Ion Ratio Lower Upper  
117 100  
82 55.6 48.7 73.1  
119 32.8 27.0 40.6

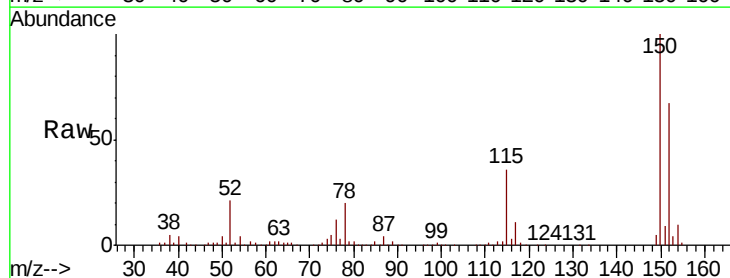


Abundance Ion 116.95 (116.65 to 117.65): V  
Ion 82.05 (81.75 to 82.75): V  
Ion 118.95 (118.65 to 119.65): V

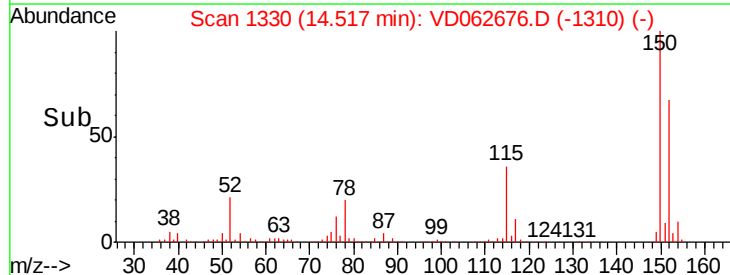
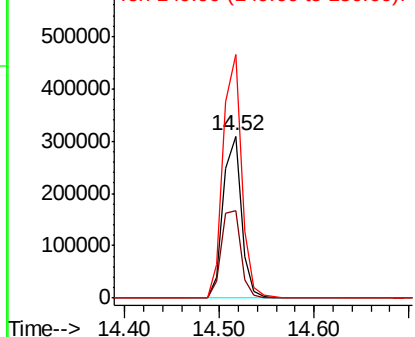


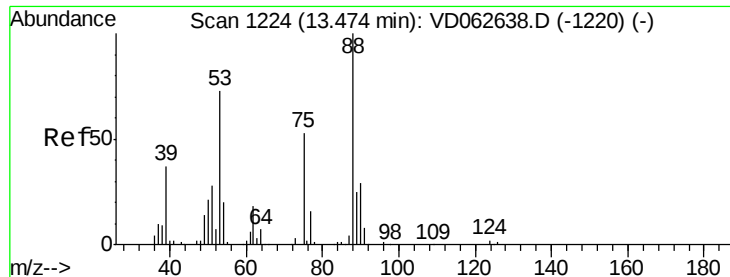
#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 14.52 min Scan# 1330  
Delta R.T. -0.00 min  
Lab File: VD062676.D  
Acq: 12 Jun 2019 16:08

Tgt Ion:152 Resp: 413077  
Ion Ratio Lower Upper  
152 100  
115 53.9 30.1 90.5  
150 150.4 0.0 314.0



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: 83.085 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. 0.08 min

Lab File: VD062676.D

Acq: 12 Jun 2019 16:08

Instrument :

MSVOA\_D

ClientSampleId :

SB-8 9.5-10.0 060719RE

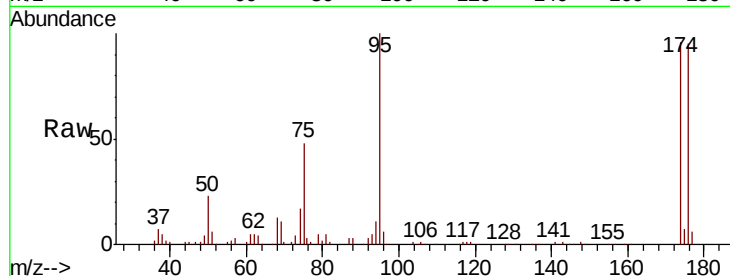
Tot Ion: 75 Resp: 142645

Ion Ratio Lower Upper

75 100

53 0.0 109.4 164.2#

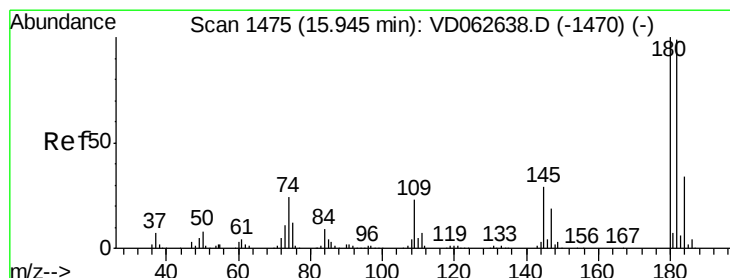
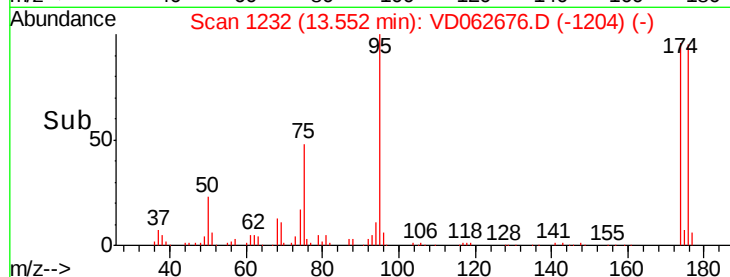
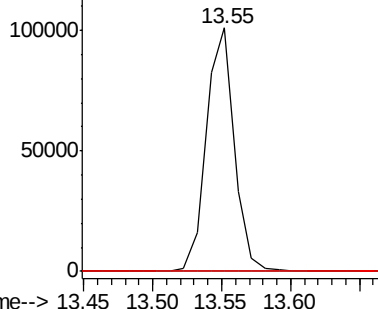
89 0.0 37.0 55.6#



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 89.00 (88.70 to 89.70): VDC



#93

1,2,4-Trichlorobenzene

Concen: 3.610 ug/l

RT: 15.94 min Scan# 1475

Delta R.T. 0.00 min

Lab File: VD062676.D

Acq: 12 Jun 2019 16:08

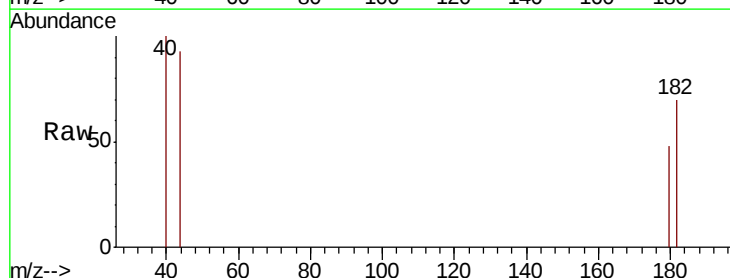
Tgt Ion: 180 Resp: 479

Ion Ratio Lower Upper

180 100

182 146.8 49.4 148.2

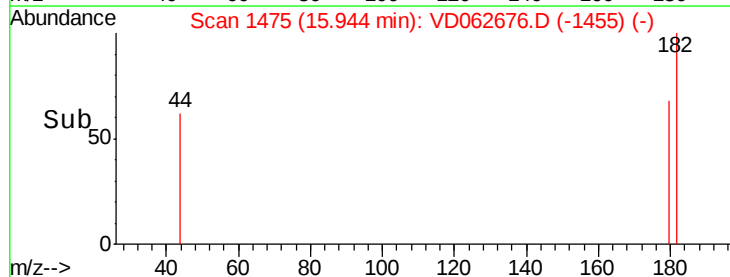
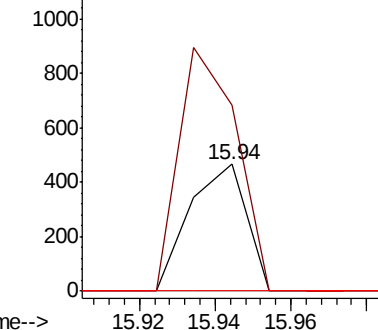
145 0.0 14.5 43.6#

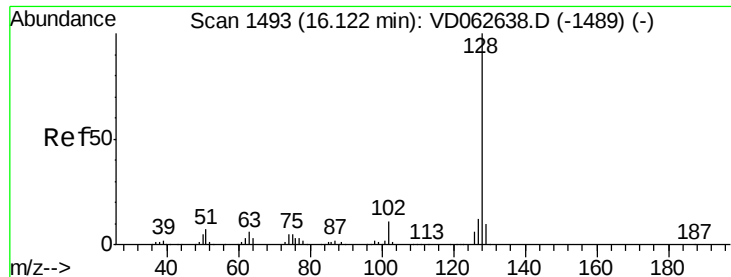


Abundance Ion 179.85 (179.55 to 180.55): V

Ion 181.85 (181.55 to 182.55): V

Ion 144.95 (144.65 to 145.65): V

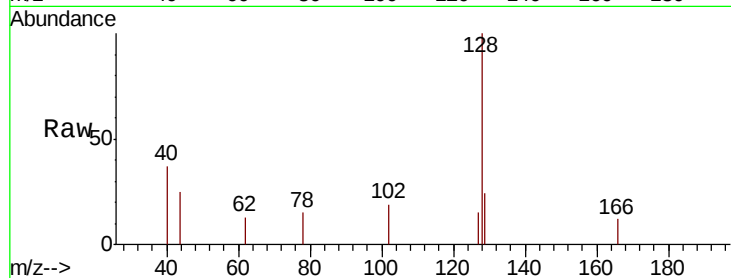




#95  
Naphthalene  
Concen: 3.664 ug/l  
RT: 16.12 min Scan# 1493  
Delta R.T. 0.00 min  
Lab File: VD062676.D  
Acq: 12 Jun 2019 16:08

Instrument :  
MSVOA\_D  
ClientSampleId :  
SB-8\_9.5-10.0\_060719RE

Tot Ion:128 Resp: 3449  
Ion Ratio Lower Upper  
128 100  
127 15.2 9.7 14.5#  
129 23.8 8.1 12.1#



Abundance Ion 128.00 (127.70 to 128.70): V  
Ion 127.00 (126.70 to 127.70): V  
Ion 129.00 (128.70 to 129.70): V

