

Data Path : W:\HPCHEM1\MSVOA\_D\DATA\VD032818\  
 Data File : VD057007.D  
 Acq On : 28 Mar 2018 17:42  
 Operator : JC/SY  
 Sample : J2075-02RE  
 Misc : 12.60g/5ml/MSVOA\_D/SOIL  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 SB-107(12-13)

Quant Time: Mar 29 05:53:12 2018  
 Quant Method : W:\HPCHEM1\MSVOA\_D\METHOD\82D031518S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Mar 15 13:41:11 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 6.17  | 168  | 388658   | 50.00 | ug/l  | -0.03    |
| 34) 1,4-Difluorobenzene    | 7.29  | 114  | 694823   | 50.00 | ug/l  | -0.03    |
| 63) Chlorobenzene-d5       | 11.48 | 117  | 521199   | 50.00 | ug/l  | -0.02    |
| 72) 1,4-Dichlorobenzene-d4 | 13.84 | 152  | 182048   | 50.00 | ug/l  | -0.02    |

|                             |        |     |          |       |         |       |
|-----------------------------|--------|-----|----------|-------|---------|-------|
| System Monitoring Compounds |        |     |          |       |         |       |
| 33) 1,2-Dichloroethane-d4   | 6.57   | 65  | 215787   | 49.77 | ug/l    | -0.03 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 99.54%  |       |
| 35) Dibromofluoromethane    | 6.07   | 113 | 256016   | 51.89 | ug/l    | -0.03 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 103.78% |       |
| 50) Toluene-d8              | 9.49   | 98  | 715376   | 47.13 | ug/l    | -0.02 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 94.26%  |       |
| 62) 4-Bromofluorobenzene    | 12.76  | 95  | 256808   | 38.69 | ug/l    | -0.02 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 77.38%  |       |

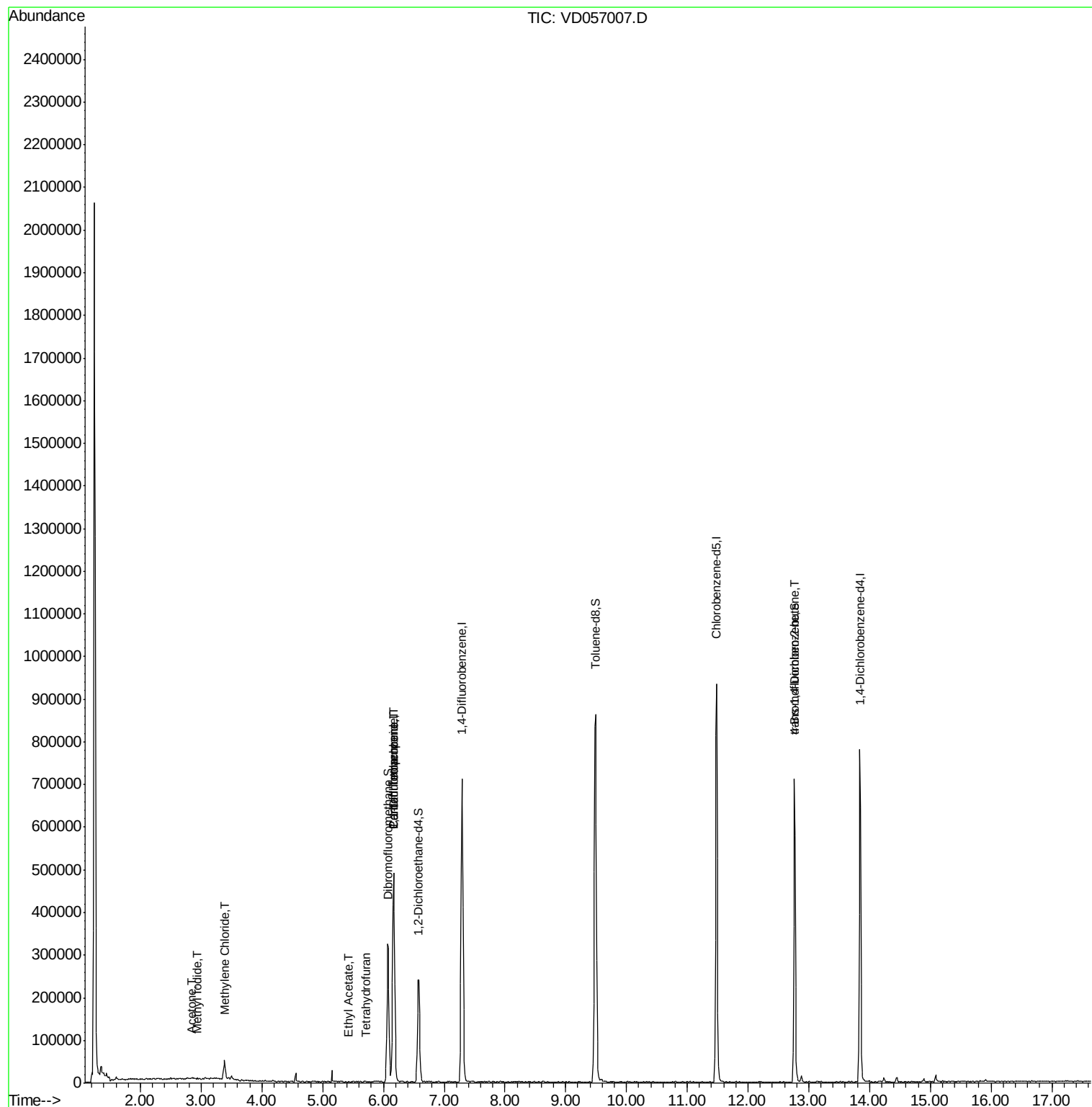
| Target Compounds               |       |     |        |        |        | Qvalue |
|--------------------------------|-------|-----|--------|--------|--------|--------|
| 10) Methyl Iodide              | 2.94  | 142 | 260    | 2.88   | ug/l # | 32     |
| 13) Acrolein                   | 2.67  | 56  | 587    | Below  | Cal #  | 70     |
| 16) Acetone                    | 2.85  | 43  | 2745   | 4.14   | ug/l # | 61     |
| 20) Methylene Chloride         | 3.39  | 84  | 17991  | 4.90   | ug/l   | 88     |
| 29) Tetrahydrofuran            | 5.71  | 42  | 1607   | 1.87   | ug/l # | 37     |
| 31) Cyclohexane                | 6.17  | 56  | 9751   | Below  | Cal #  | 1      |
| 36) 1,1-Dichloropropene        | 6.17  | 75  | 40768  | 5.36   | ug/l # | 50     |
| 37) Ethyl Acetate              | 5.44  | 43  | 634    | 1.70   | ug/l # | 70     |
| 38) Carbon Tetrachloride       | 6.17  | 117 | 41402  | 6.34   | ug/l # | 15     |
| 81) trans-1,4-Dichloro-2-buten | 12.76 | 75  | 129950 | 130.41 | ug/l # | 18     |

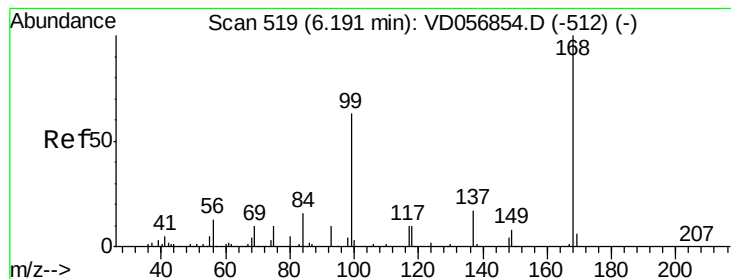
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260  
QLast Update : Thu Mar 15 13:41:11 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 6.17 min Scan# 516

Delta R.T. -0.03 min

Lab File: VD057007.D

Acq: 28 Mar 2018 17:42

Instrument :

MSVOA\_X

ClientSampleId :

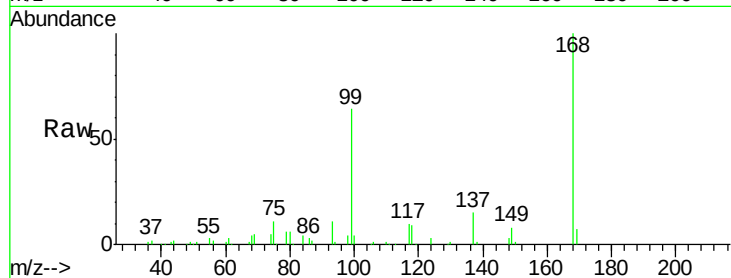
SB-107(12-13)

Tgt Ion:168 Resp: 388658

Ion Ratio Lower Upper

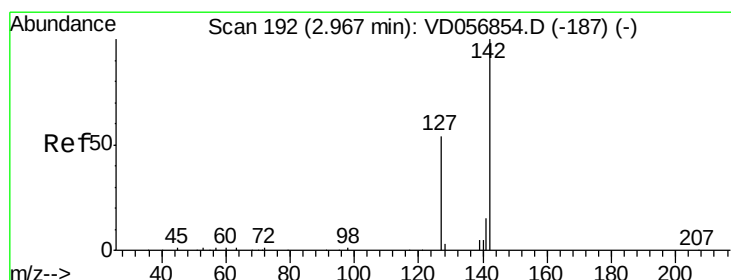
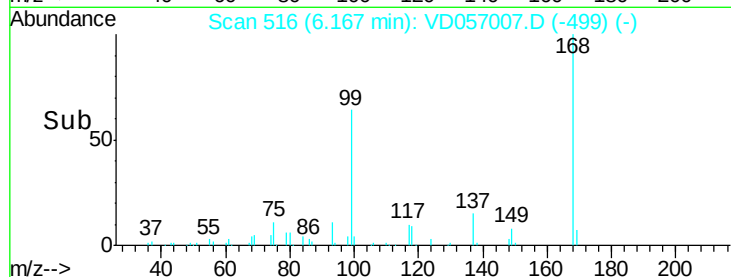
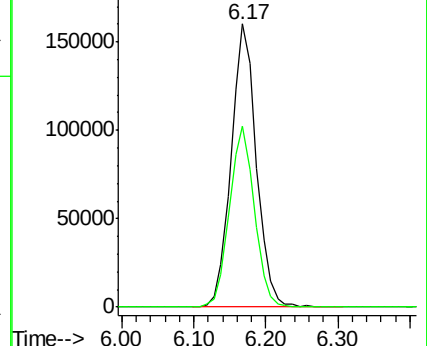
168 100

99 63.7 47.0 70.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#10

Methyl Iodide

Concen: 2.88 ug/l

RT: 2.94 min Scan# 189

Delta R.T. -0.03 min

Lab File: VD057007.D

Acq: 28 Mar 2018 17:42

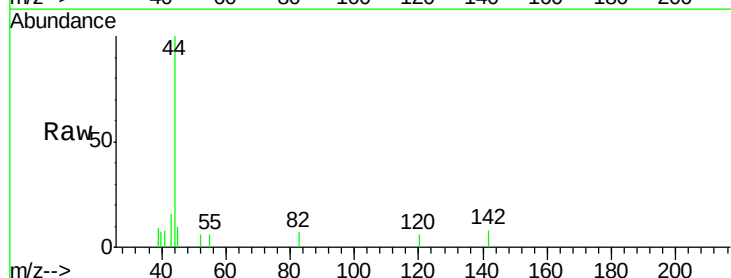
Tgt Ion:142 Resp: 260

Ion Ratio Lower Upper

142 100

127 0.0 44.3 66.5#

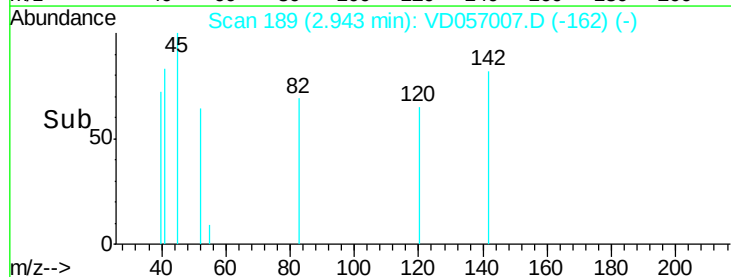
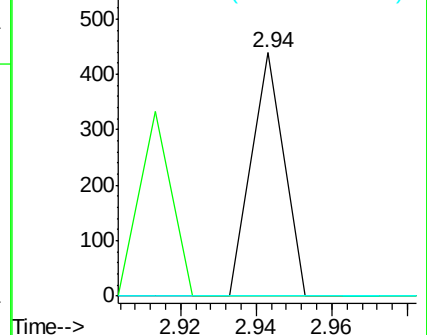
141 0.0 11.8 17.6#

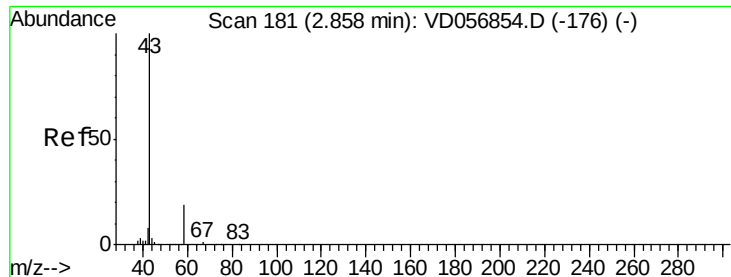


Abundance Ion 141.85 (141.55 to 142.55): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.85 (140.55 to 141.55): V





#16

Acetone

Concen: 4.14 ug/l

RT: 2.85 min Scan# 180

Delta R.T. -0.01 min

Lab File: VD057007.D

Acq: 28 Mar 2018 17:42

Instrument :

MSVOA\_X

ClientSampleId :

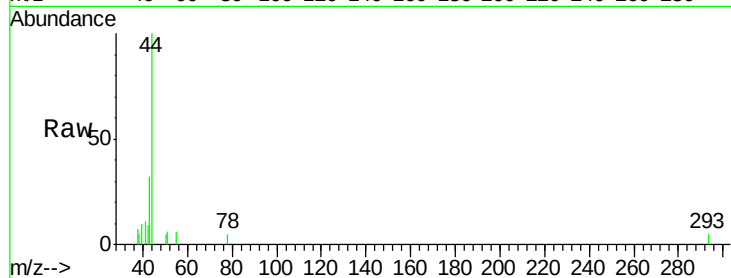
SB-107(12-13)

Tgt Ion: 43 Resp: 2745

Ion Ratio Lower Upper

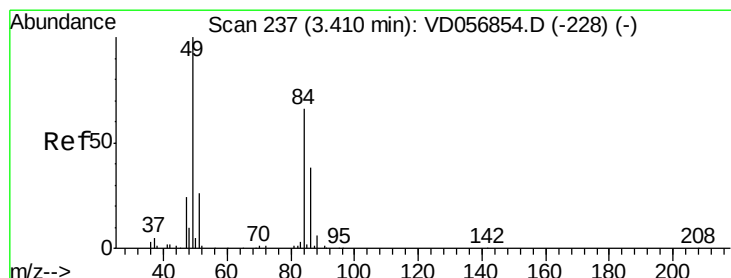
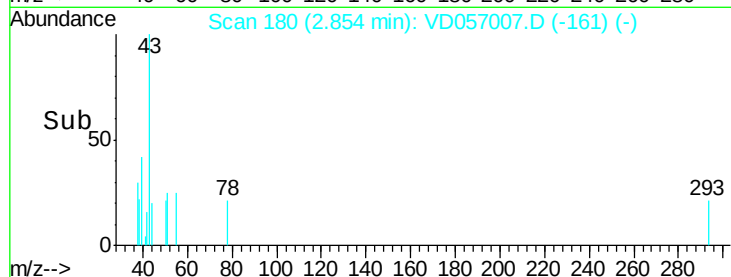
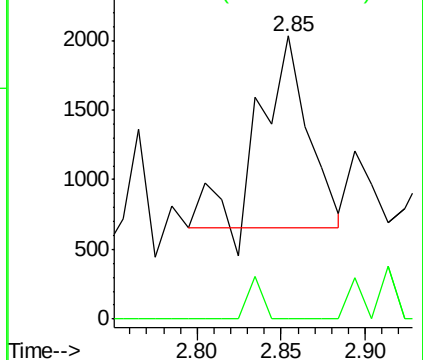
43 100

58 0.0 13.6 20.4#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#20

Methylene Chloride

Concen: 4.90 ug/l

RT: 3.39 min Scan# 234

Delta R.T. -0.02 min

Lab File: VD057007.D

Acq: 28 Mar 2018 17:42

Tgt Ion: 84 Resp: 17991

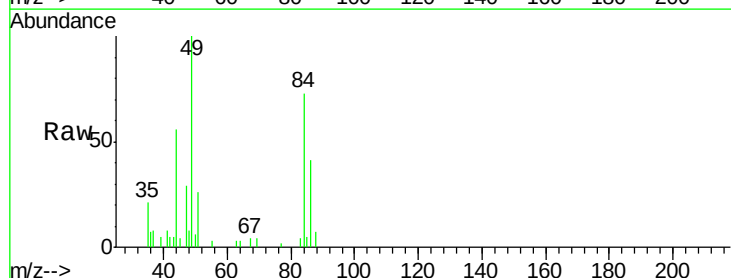
Ion Ratio Lower Upper

84 100

49 137.6 124.5 186.7

51 36.0 35.1 52.7

86 55.9 49.9 74.9

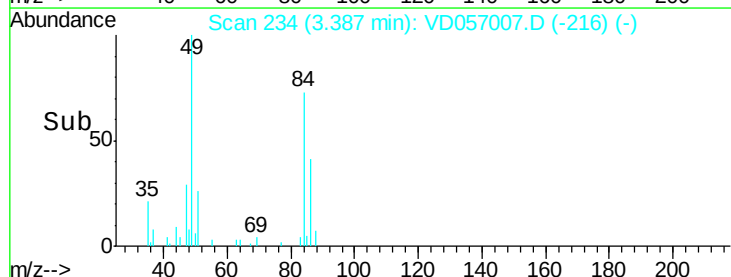
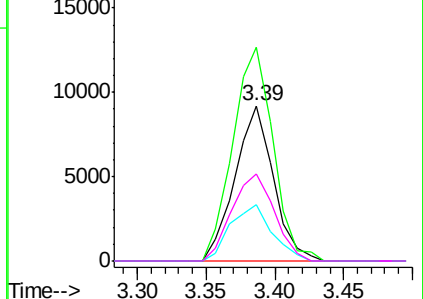


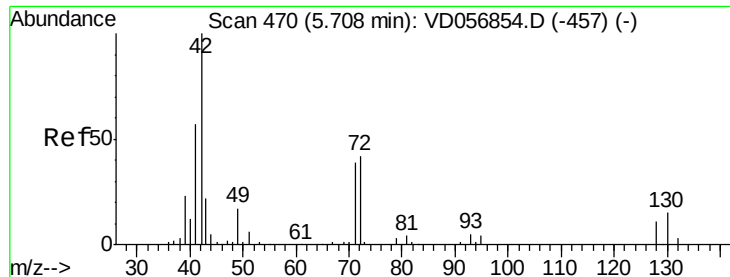
Abundance Ion 83.95 (83.65 to 84.65): VDC

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





#29

Tetrahydrofuran

Concen: 1.87 ug/l

RT: 5.71 min Scan# 470

Delta R.T. -0.00 min

Lab File: VD057007.D

Acq: 28 Mar 2018 17:42

Instrument :

MSVOA\_X

ClientSampleId :

SB-107(12-13)

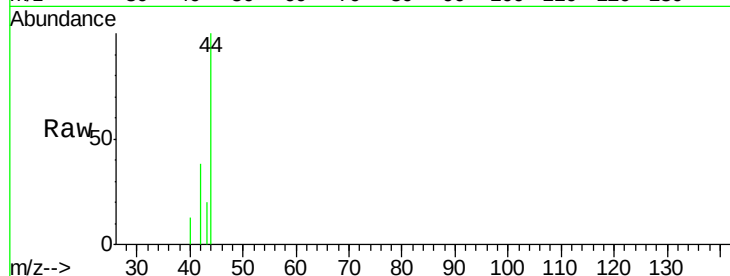
Tgt Ion: 42 Resp: 1607

Ion Ratio Lower Upper

42 100

72 0.0 30.9 46.3#

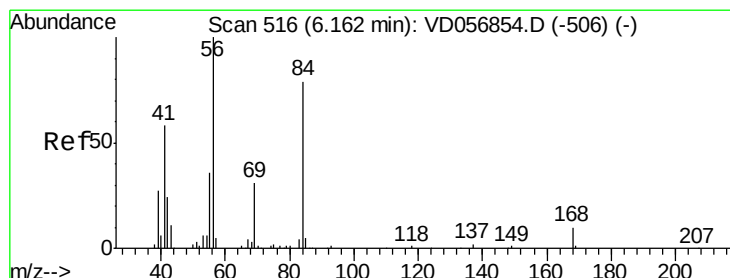
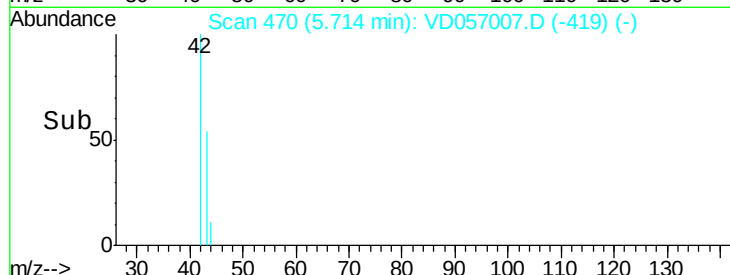
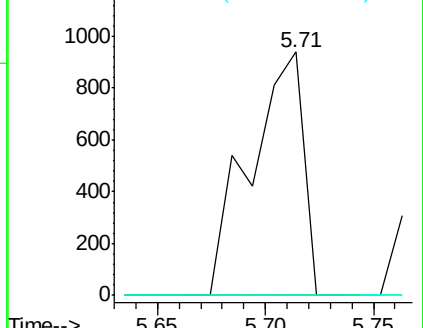
71 0.0 30.4 45.6#



Abundance Ion 42.00 (41.70 to 42.70): VDC

Ion 72.00 (71.70 to 72.70): VDC

Ion 71.00 (70.70 to 71.70): VDC



#31

Cyclohexane

Concen: Below Cal

RT: 6.17 min Scan# 516

Delta R.T. 0.01 min

Lab File: VD057007.D

Acq: 28 Mar 2018 17:42

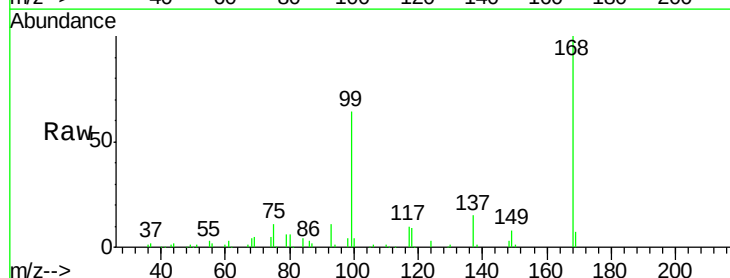
Tgt Ion: 56 Resp: 9751

Ion Ratio Lower Upper

56 100

69 196.7 23.1 34.7#

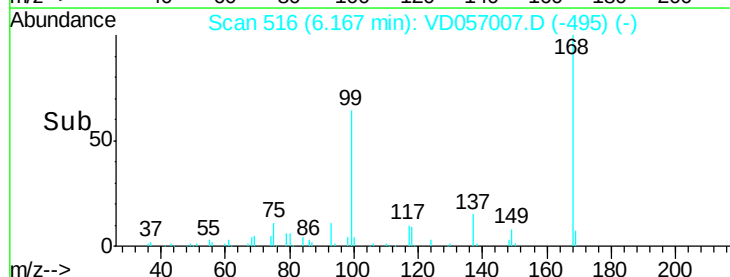
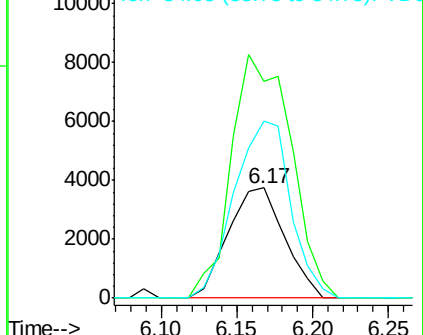
84 160.6 60.2 90.2#

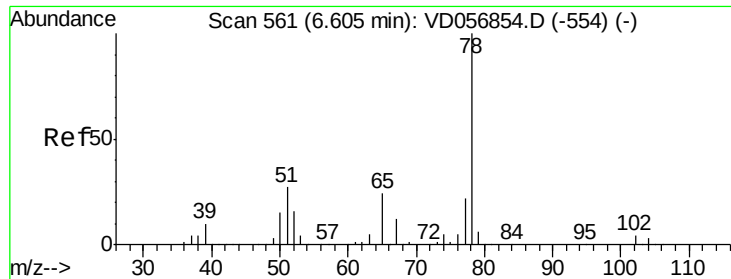


Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 69.00 (68.70 to 69.70): VDC

Ion 84.05 (83.75 to 84.75): VDC

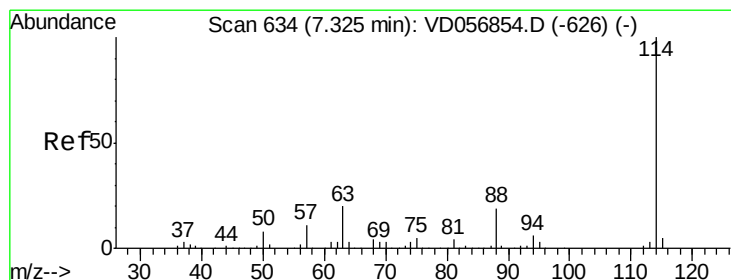
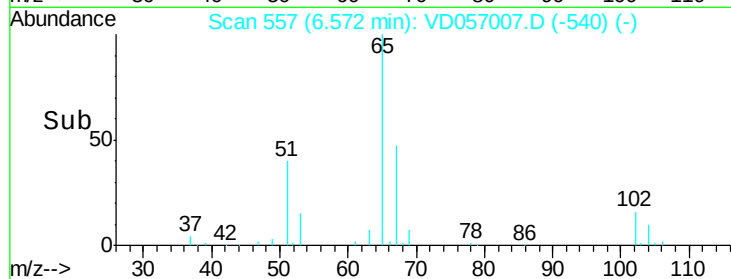
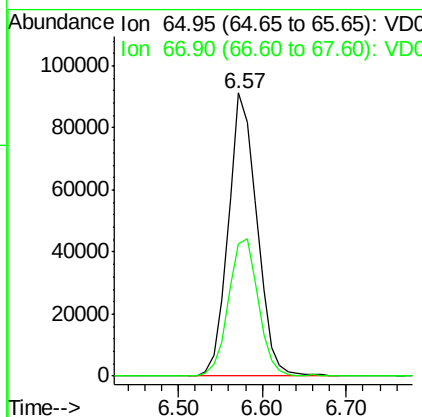
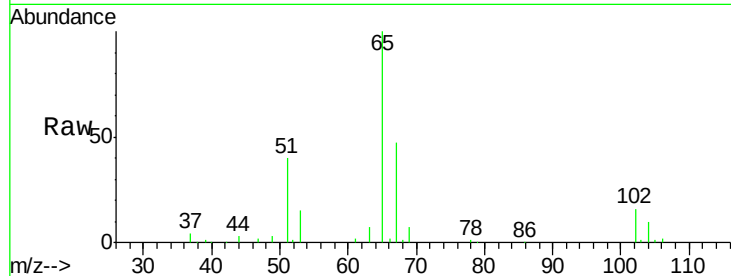




#33  
 1,2-Dichloroethane-d4  
 Concen: Below ug/l  
 RT: 6.57 min Scan# 557  
 Delta R.T. -0.03 min  
 Lab File: VD057007.D  
 Acq: 28 Mar 2018 17:42

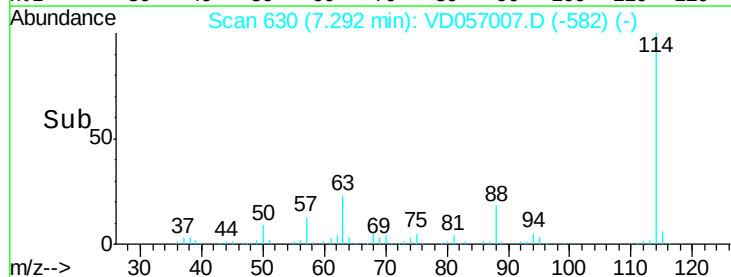
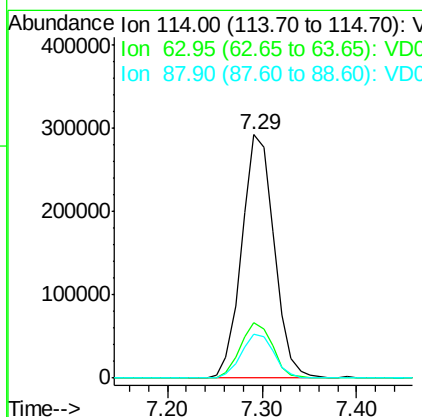
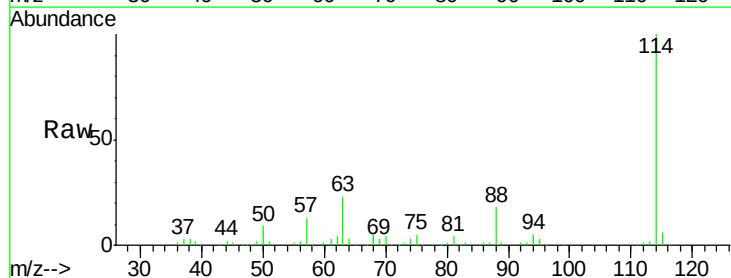
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 SB-107(12-13)

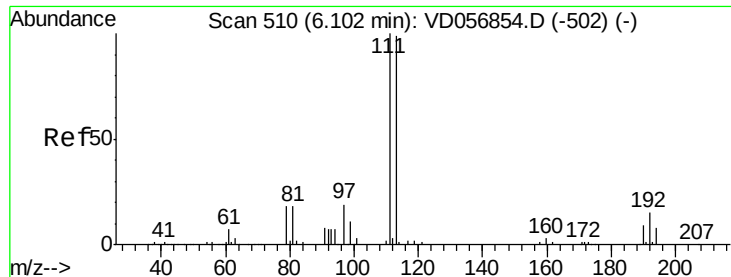
Tgt Ion: 65 Resp: 215787  
 Ion Ratio Lower Upper  
 65 100  
 67 46.8 0.0 104.4



#34  
 1,4-Difluorobenzene  
 Concen: 50.00 ug/l  
 RT: 7.29 min Scan# 630  
 Delta R.T. -0.03 min  
 Lab File: VD057007.D  
 Acq: 28 Mar 2018 17:42

Tgt Ion: 114 Resp: 694823  
 Ion Ratio Lower Upper  
 114 100  
 63 22.9 0.0 42.6  
 88 18.1 0.0 35.2





#35

Dibromofluoromethane

Concen: 50.00 ug/l

RT: 6.07 min Scan# 506

Delta R.T. -0.03 min

Lab File: VD057007.D

Acq: 28 Mar 2018 17:42

Instrument :

MSVOA\_X

ClientSampled :

SB-107(12-13)

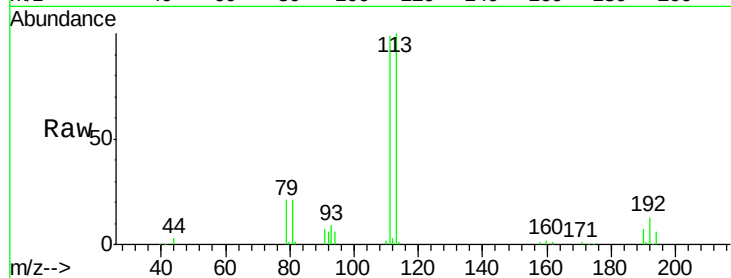
Tgt Ion:113 Resp: 256016

Ion Ratio Lower Upper

113 100

111 98.5 81.5 122.3

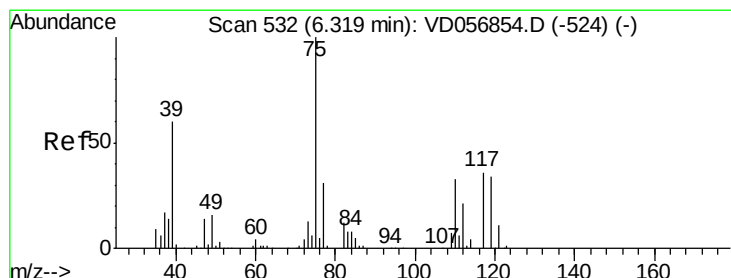
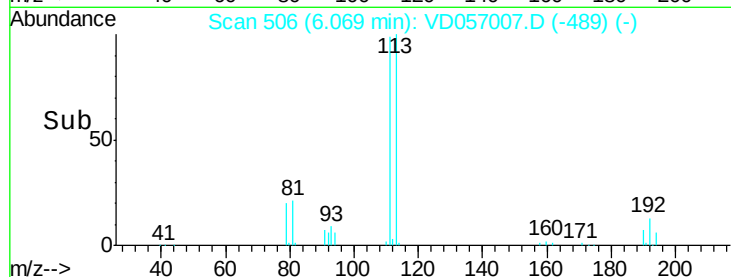
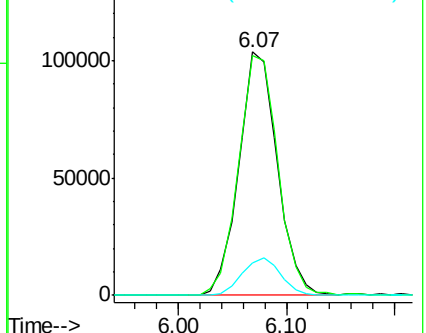
192 13.1 12.6 19.0



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



#36

1,1-Dichloropropene

Concen: 5.36 ug/l

RT: 6.17 min Scan# 516

Delta R.T. -0.15 min

Lab File: VD057007.D

Acq: 28 Mar 2018 17:42

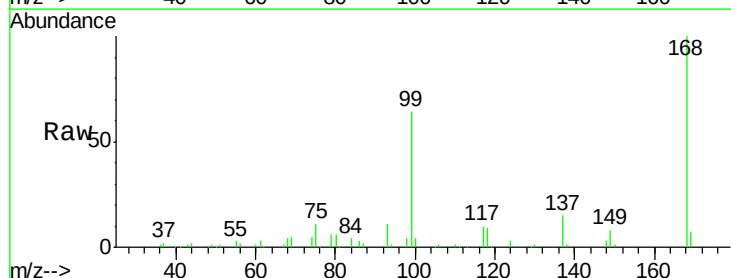
Tgt Ion: 75 Resp: 40768

Ion Ratio Lower Upper

75 100

110 6.1 15.9 47.6#

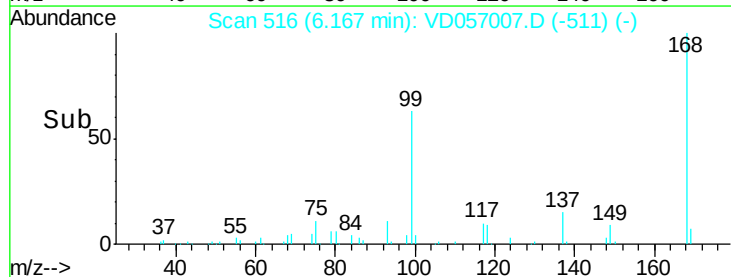
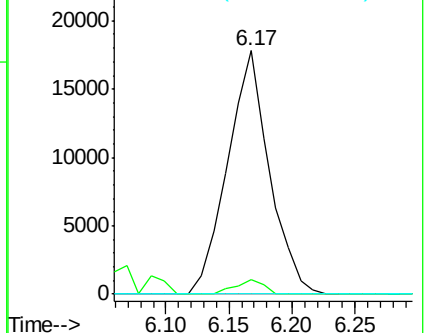
77 0.0 23.8 35.6#

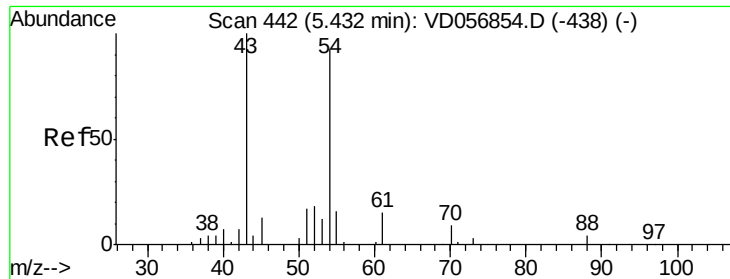


Abundance Ion 75.00 (74.70 to 75.70): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.95 (76.65 to 77.65): V





#37

Ethyl Acetate

Concen: 1.70 ug/l

RT: 5.44 min Scan# 442

Delta R.T. -0.00 min

Lab File: VD057007.D

Acq: 28 Mar 2018 17:42

Instrument :

MSVOA\_X

ClientSampled :

SB-107(12-13)

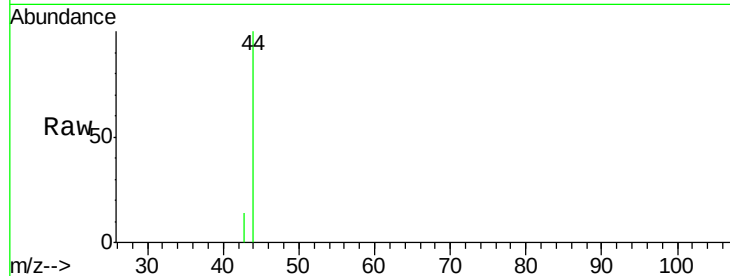
Tgt Ion: 43 Resp: 634

Ion Ratio Lower Upper

43 100

61 0.0 10.0 15.0#

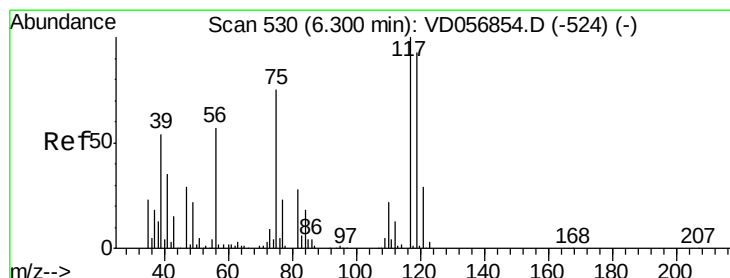
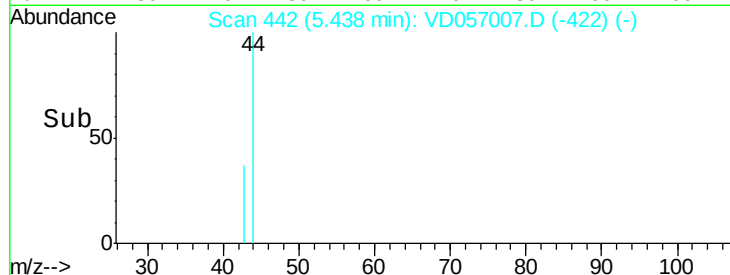
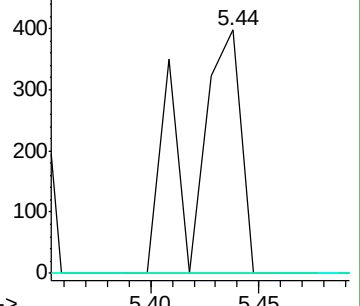
70 0.0 7.9 11.9#



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: 6.34 ug/l

RT: 6.17 min Scan# 516

Delta R.T. -0.13 min

Lab File: VD057007.D

Acq: 28 Mar 2018 17:42

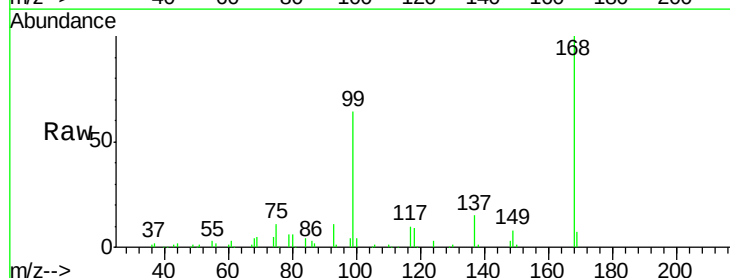
Tgt Ion: 117 Resp: 41402

Ion Ratio Lower Upper

117 100

119 4.9 78.2 117.2#

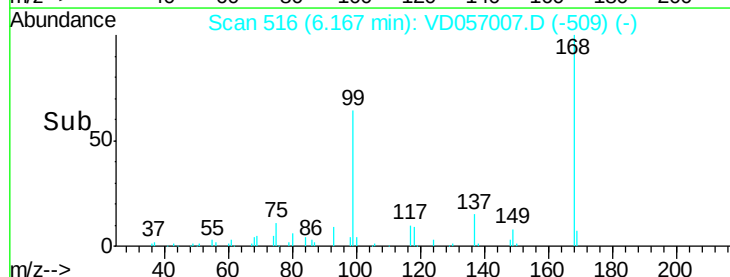
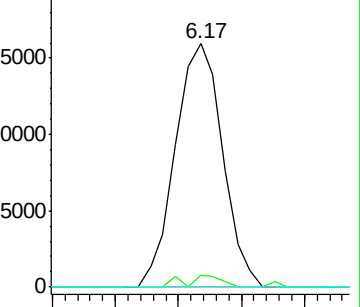
121 0.0 24.6 37.0#



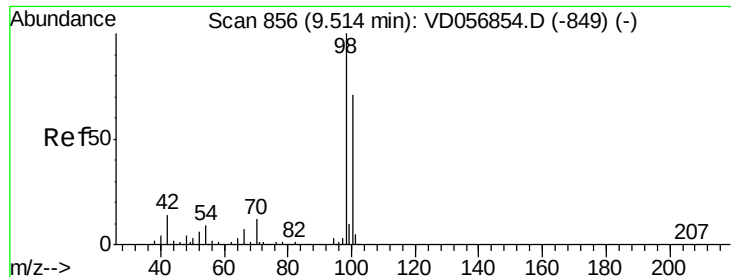
Abundance Ion 116.85 (116.55 to 117.55): V

Ion 118.85 (118.55 to 119.55): V

Ion 120.85 (120.55 to 121.55): V



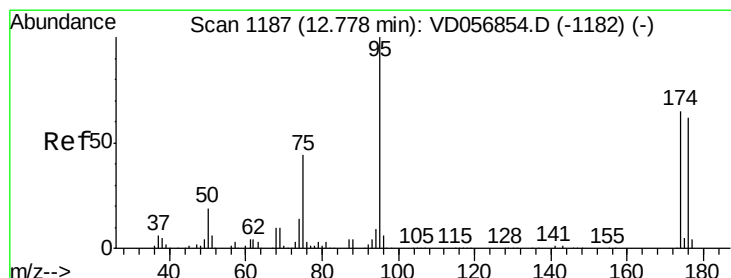
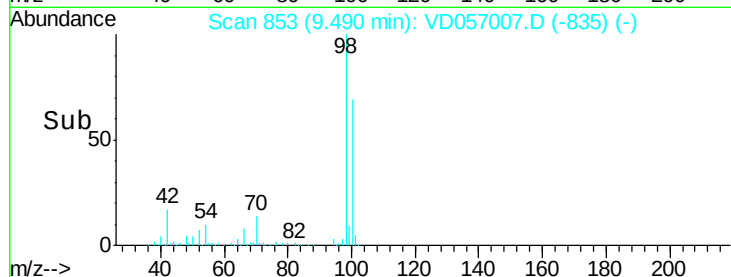
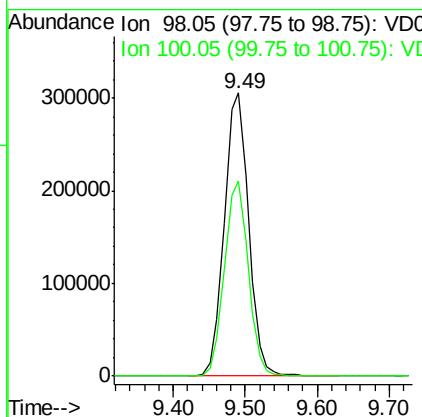
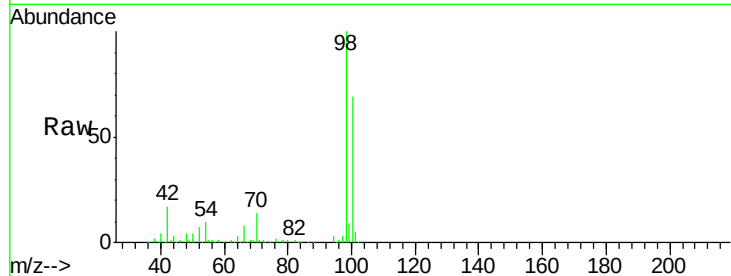




#50  
Toluene-d8  
Concen: N.D. ug/l  
RT: 9.49 min Scan# 853  
Delta R.T. -0.02 min  
Lab File: VD057007.D  
Acq: 28 Mar 2018 17:42

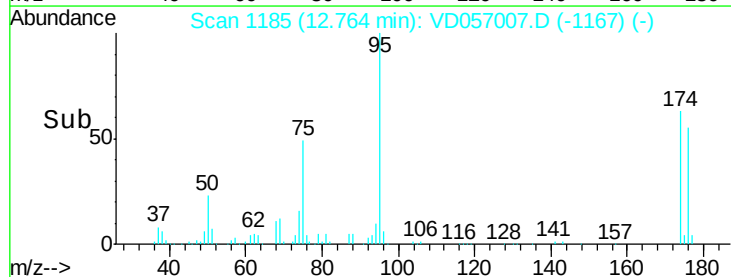
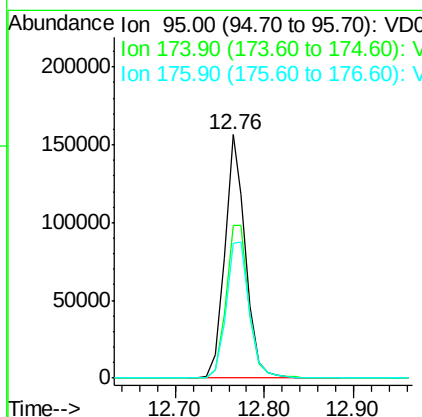
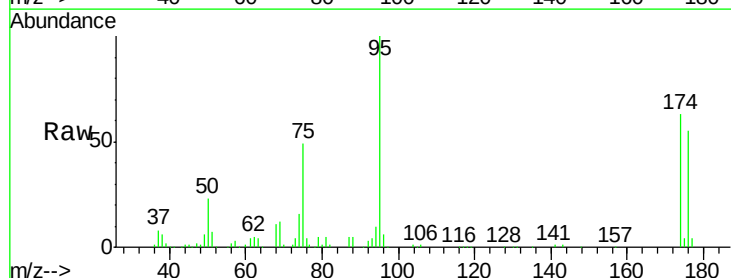
Instrument :  
MSVOA\_X  
ClientSampleId :  
SB-107(12-13)

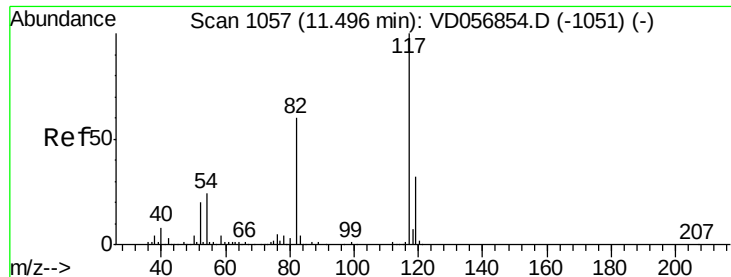
Tgt Ion: 98 Resp: 715376  
Ion Ratio Lower Upper  
98 100  
100 68.8 56.2 84.4



#62  
4-Bromofluorobenzene  
Concen: N.D. ug/l  
RT: 12.76 min Scan# 1185  
Delta R.T. -0.02 min  
Lab File: VD057007.D  
Acq: 28 Mar 2018 17:42

Tgt Ion: 95 Resp: 256808  
Ion Ratio Lower Upper  
95 100  
174 62.8 0.0 143.6  
176 55.4 0.0 141.2

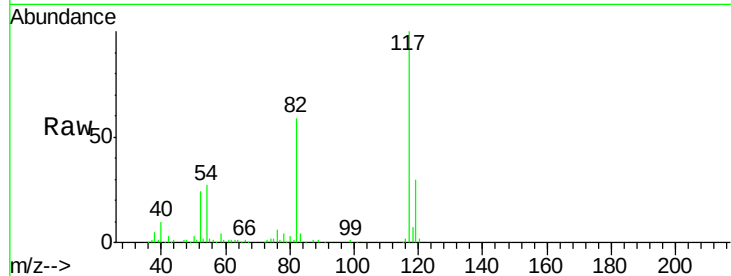




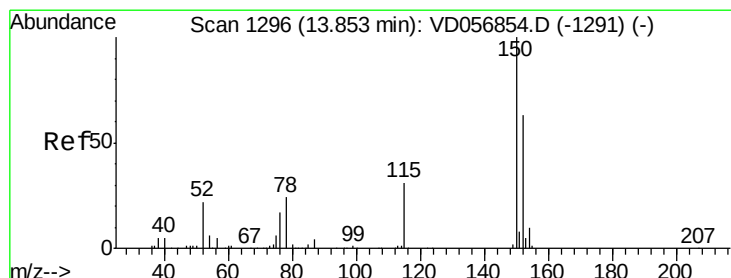
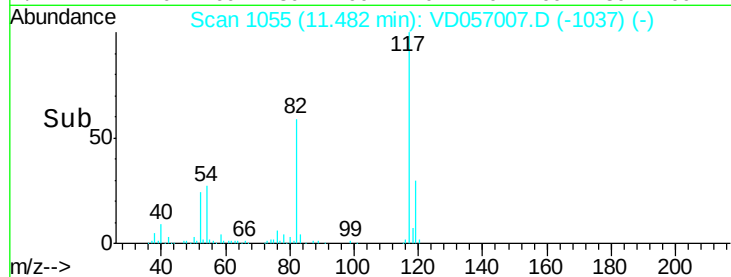
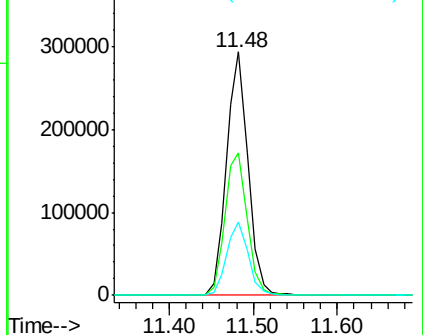
#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 11.48 min Scan# 1055  
Delta R.T. -0.02 min  
Lab File: VD057007.D  
Acq: 28 Mar 2018 17:42

Instrument :  
MSVOA\_X  
ClientSampleId :  
SB-107(12-13)

Tgt Ion:117 Resp: 521199  
Ion Ratio Lower Upper  
117 100  
82 58.5 46.2 69.4  
119 30.3 25.8 38.6

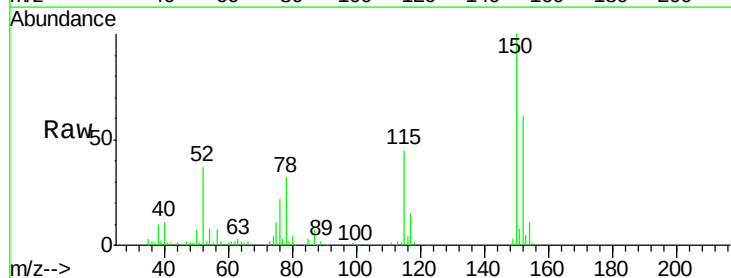


Abundance Ion 116.95 (116.65 to 117.65): V  
Ion 82.05 (81.75 to 82.75): V  
Ion 118.95 (118.65 to 119.65): V

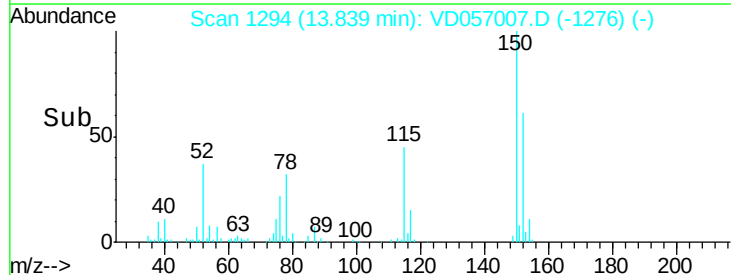
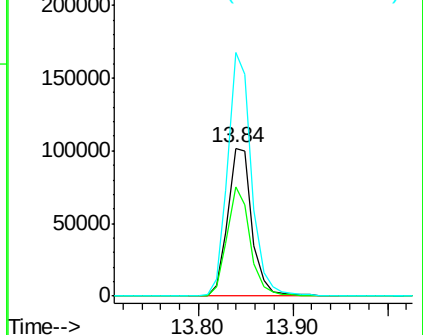


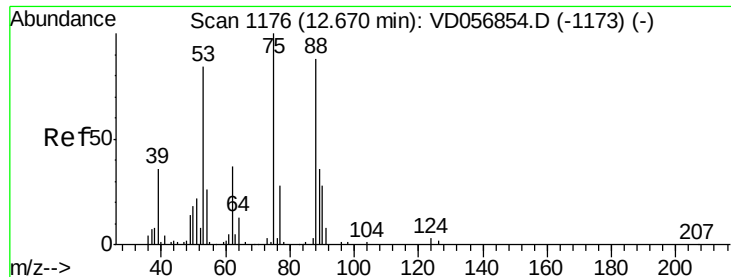
#72  
1,4-Dichlorobenzene-d4  
Concen: 50.00 ug/l  
RT: 13.84 min Scan# 1294  
Delta R.T. -0.02 min  
Lab File: VD057007.D  
Acq: 28 Mar 2018 17:42

Tgt Ion:152 Resp: 182048  
Ion Ratio Lower Upper  
152 100  
115 73.5 31.2 93.6  
150 164.4 0.0 334.8



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: 130.41 ug/l

RT: 12.76 min Scan# 1185

Delta R.T. 0.09 min

Lab File: VD057007.D

Acq: 28 Mar 2018 17:42

Instrument :

MSVOA\_X

ClientSampleId :

SB-107(12-13)

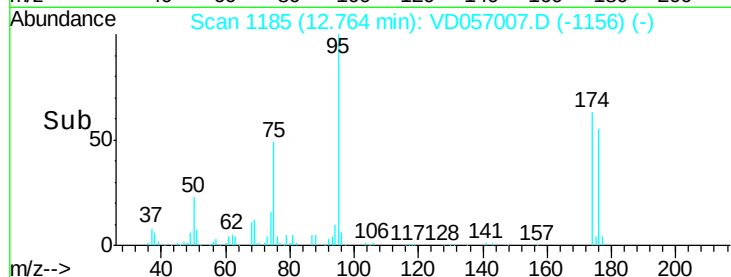
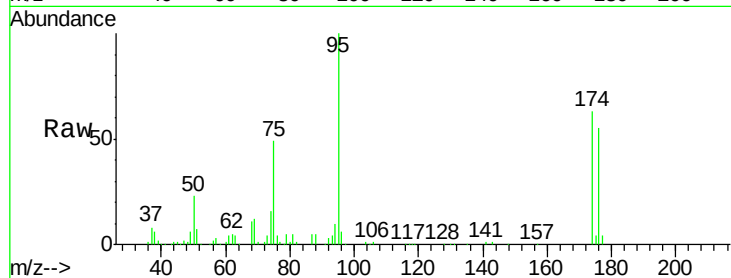
Tgt Ion: 75 Resp: 129950

Ion Ratio Lower Upper

75 100

53 0.0 64.5 96.7#

89 0.0 31.6 47.4#



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

