

Data File : VD059858.D
Acq On : 21 Aug 2018 16:22
Operator : JC/SY
Sample : J4535-04
Misc : 5.06g/5ml/MSVOA_D/SOIL
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_D
ClientSampleId :
RA-081618-FL-036

Quant Time: Aug 22 01:12:01 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D082018S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 21 04:40:12 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.61	168	1057966	50.00	ug/l	0.01
34) 1,4-Difluorobenzene	6.66	114	1509965	50.00	ug/l	0.01
63) Chlorobenzene-d5	10.66	117	1193741	50.00	ug/l	0.01
72) 1,4-Dichlorobenzene-d4	12.89	152	579828	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.98	65	443408	52.37	ug/l	0.01
Spiked Amount	50.000		Recovery	=	104.74%	
35) Dibromofluoromethane	5.51	113	566033	50.68	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.36%	
50) Toluene-d8	8.68	98	1474989	48.98	ug/l	0.01
Spiked Amount	50.000		Recovery	=	97.96%	
62) 4-Bromofluorobenzene	11.90	95	585193	50.64	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.28%	

Target Compounds

						Qvalue
13) Acrolein	2.45	56	1106	4.508	ug/l #	21
16) Acetone	2.58	43	99170	69.879	ug/l	100
17) Carbon Disulfide	2.73	76	2167	Below Cal	#	76
18) Methyl Acetate	2.90	43	1136	Below Cal	#	65
20) Methylene Chloride	3.04	84	23865	Below Cal		92
25) 2-Butanone	4.79	43	48339	11.269	ug/l	97
29) Tetrahydrofuran	5.15	42	3393	1.562	ug/l #	49
31) Cyclohexane	5.61	56	21437	Below Cal	#	1
36) 1,1-Dichloropropene	5.61	75	74527	5.820	ug/l #	47
37) Ethyl Acetate	4.79	43	48679	5.128	ug/l #	75
38) Carbon Tetrachloride	5.61	117	83660	6.546	ug/l #	16
58) 2-Chloroethyl Vinyl ether	8.15	63	185	9.535	ug/l #	51
67) Ethyl Benzene	10.83	91	1597	Below Cal	#	43
80) 1,3,5-Trimethylbenzene	12.30	105	1457	Below Cal		98
81) trans-1,4-Dichloro-2-buten	11.90	75	232556	77.552	ug/l #	10
82) 4-Chlorotoluene	12.31	91	1752	Below Cal		86
89) n-Butylbenzene	13.17	91	1979	Below Cal	#	84
91) 1,2-Dichlorobenzene	13.17	146	1300	Below Cal		90

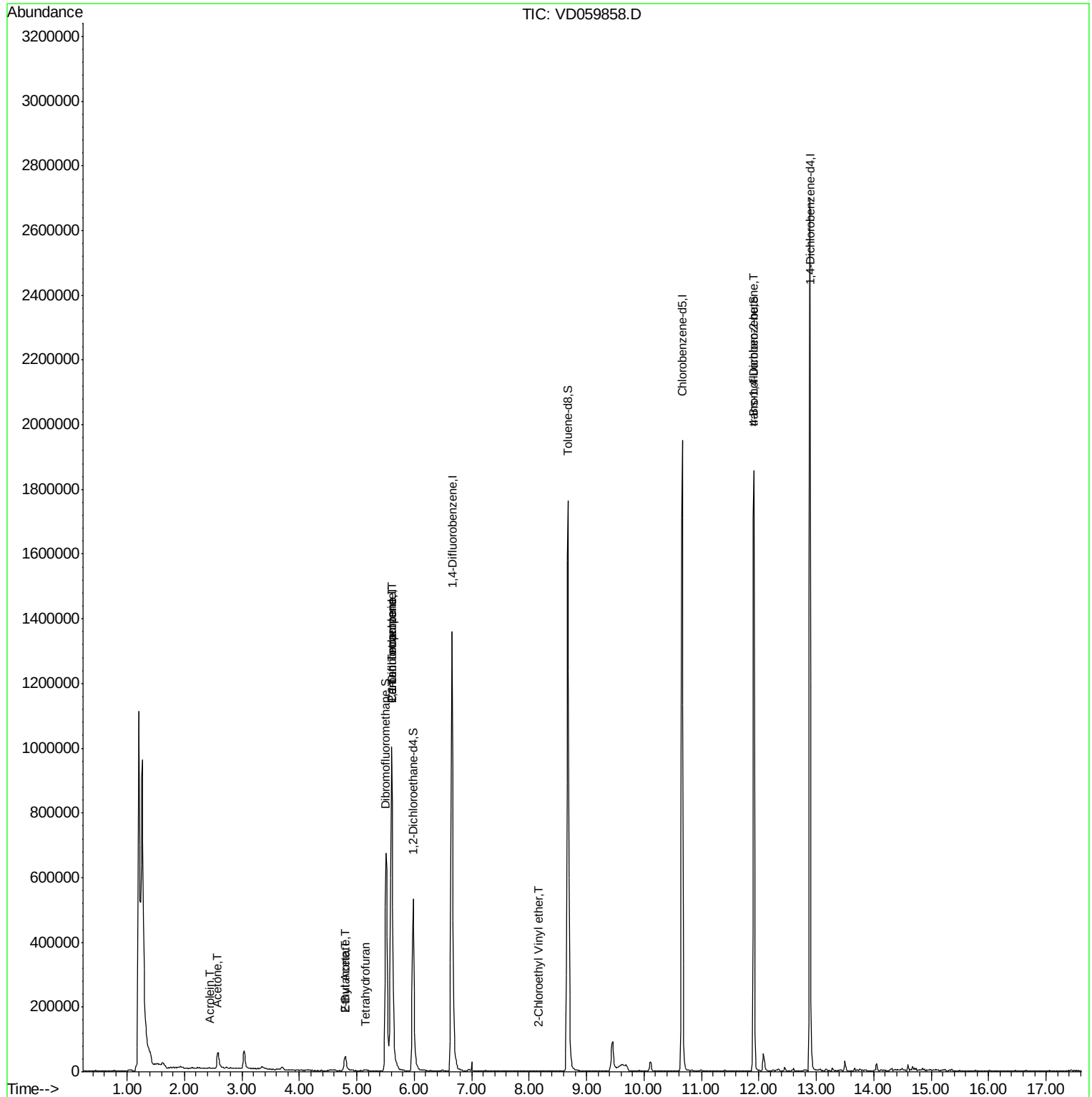
(#) = qualifier out of range (m) = manual integration (+) = signals summed

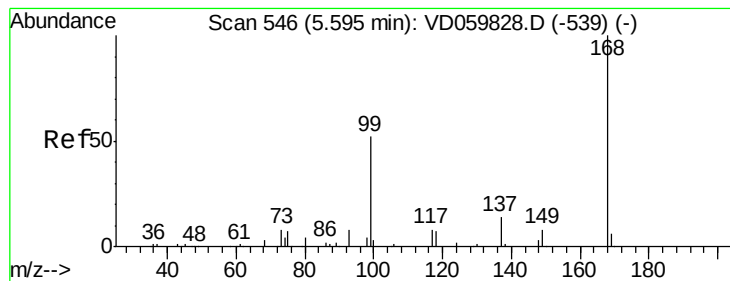
Data File : VD059858.D

```
Acq On       : 21 Aug 2018  16:22
Operator    : JC/SY
Sample      : J4535-04
Misc       : 5.06g/5ml/MSV0A_D/SOIL
ALS Vial    : 12      Sample Multiplier: 1
```

Instrument :
MSVOA_D
ClientSampleId :
RA-081618-FL-036

Quant Time: Aug 22 01:12:01 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D082018S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 21 04:40:12 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.61 min Scan# 547

Delta R.T. 0.01 min

Lab File: VD059858.D

Acq: 21 Aug 2018 16:22

Instrument :

MSVOA_D

ClientSampleId :

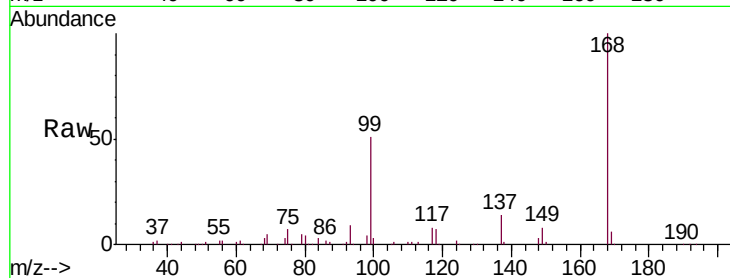
RA-081618-FL-036

Tgt Ion:168 Resp: 1057966

Ion Ratio Lower Upper

168 100

99 50.6 43.6 65.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

5.61

400000

300000

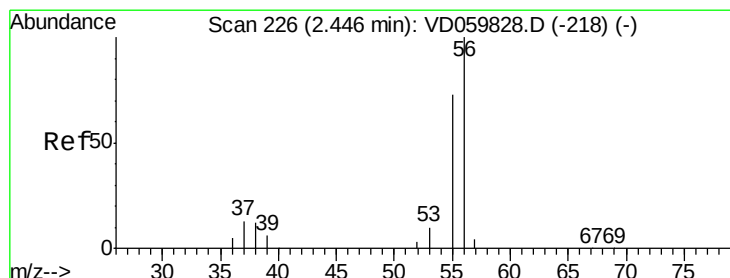
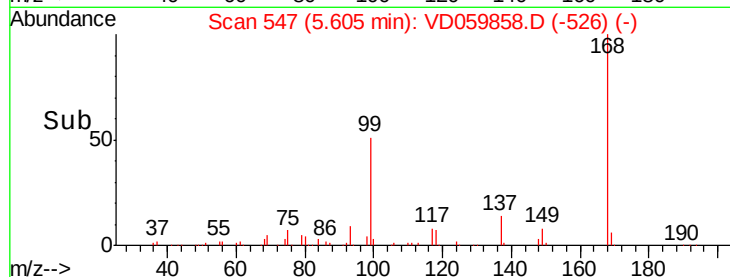
200000

100000

0

5.50 5.60 5.70 5.80

Time-->



#13

Acrolein

Concen: 4.508 ug/l

RT: 2.45 min Scan# 226

Delta R.T. 0.00 min

Lab File: VD059858.D

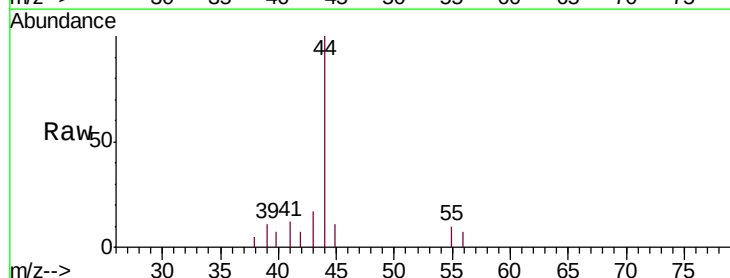
Acq: 21 Aug 2018 16:22

Tgt Ion: 56 Resp: 1106

Ion Ratio Lower Upper

56 100

55 143.2 60.4 90.6#



Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 55.00 (54.70 to 55.70): VDC

800

600

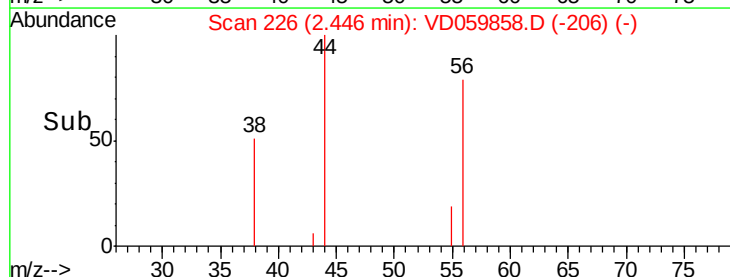
400

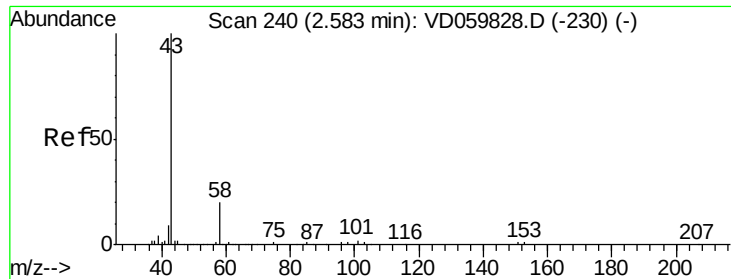
200

0

2.40 2.45

Time-->





#16

Acetone

Concen: 69.879 ug/l

RT: 2.58 min Scan# 240

Delta R.T. 0.00 min

Lab File: VD059858.D

Acq: 21 Aug 2018 16:22

Instrument :

MSVOA_D

ClientSampleId :

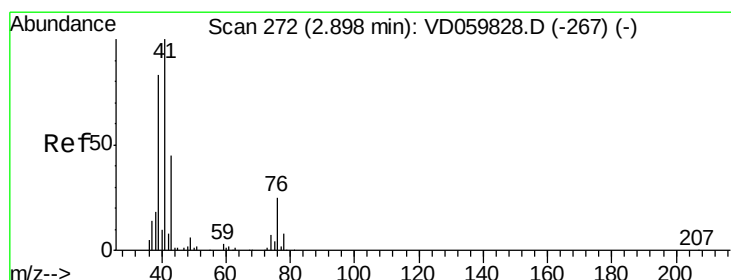
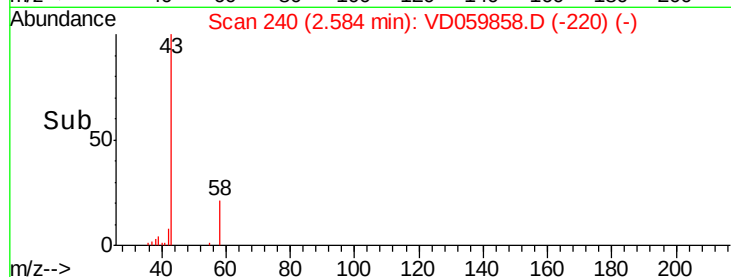
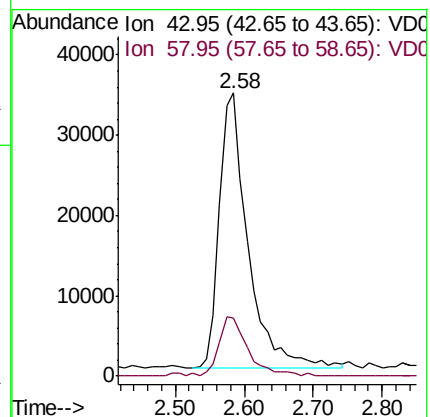
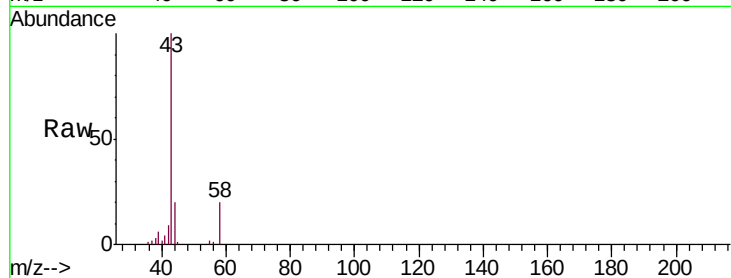
RA-081618-FL-036

Tgt Ion: 43 Resp: 99170

Ion Ratio Lower Upper

43 100

58 20.4 16.2 24.2



#18

Methyl Acetate

Concen: Below Cal

RT: 2.90 min Scan# 272

Delta R.T. 0.00 min

Lab File: VD059858.D

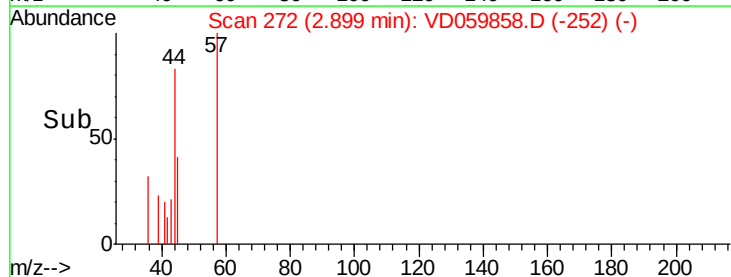
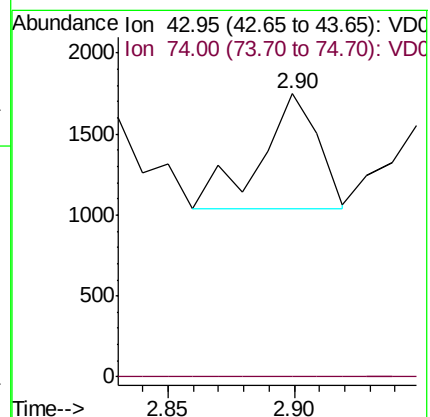
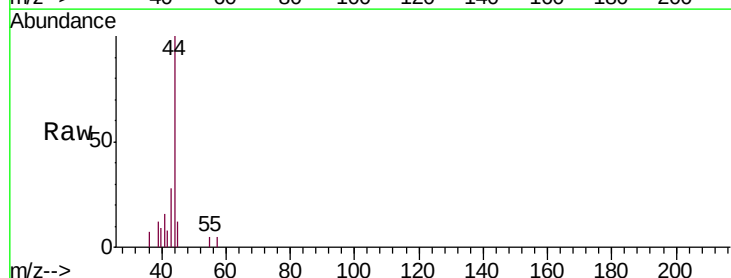
Acq: 21 Aug 2018 16:22

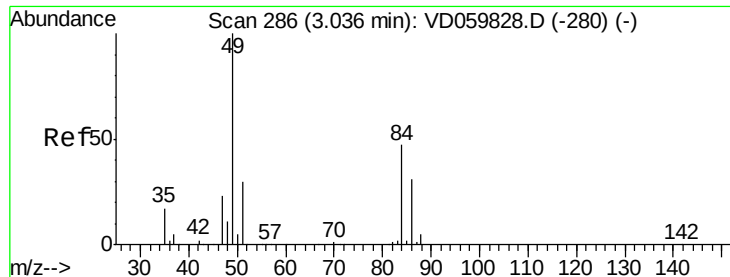
Tgt Ion: 43 Resp: 1136

Ion Ratio Lower Upper

43 100

74 0.0 11.4 17.0#

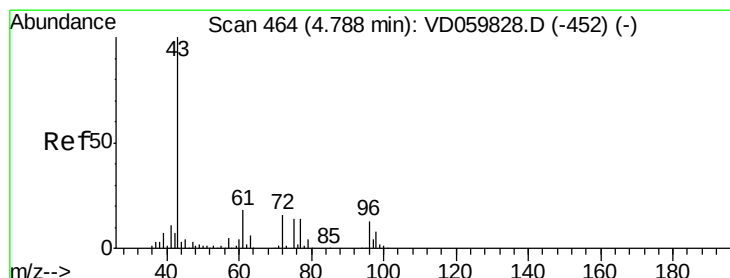
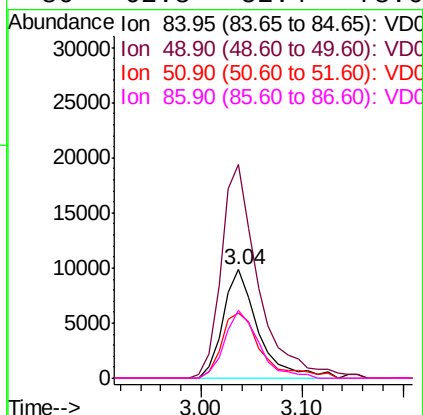
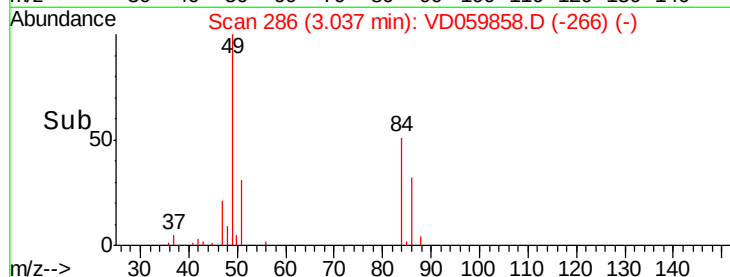
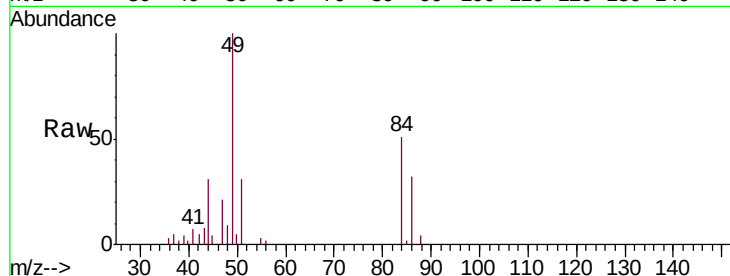




#20
Methylene Chloride
Concen: Below Cal
RT: 3.04 min Scan# 286
Delta R.T. 0.00 min
Lab File: VD059858.D
Acq: 21 Aug 2018 16:22

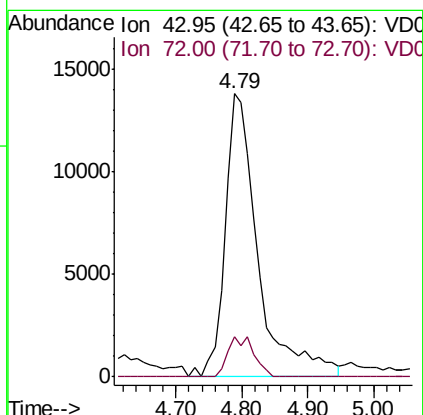
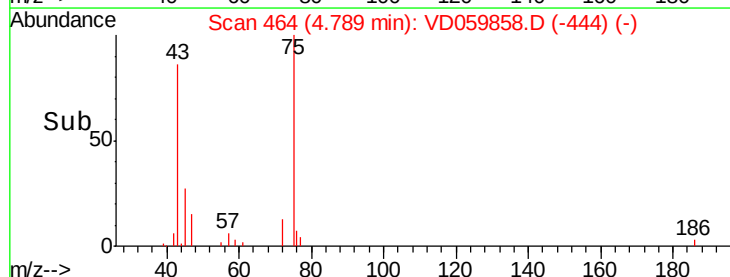
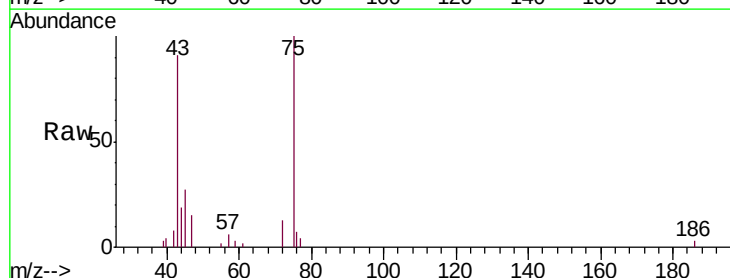
Instrument :
MSVOA_D
ClientSampleId :
RA-081618-FL-036

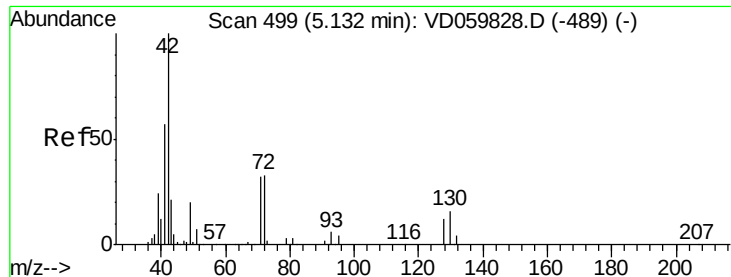
Tgt Ion:	84	Resp:	23865
Ion	Ratio	Lower	Upper
84	100		
49	197.4	170.4	255.6
51	60.5	51.4	77.0
86	62.8	52.4	78.6



#25
2-Butanone
Concen: 11.269 ug/l
RT: 4.79 min Scan# 464
Delta R.T. 0.00 min
Lab File: VD059858.D
Acq: 21 Aug 2018 16:22

Tgt Ion:	43	Resp:	48339
Ion	Ratio	Lower	Upper
43	100		
72	14.3	12.4	18.6





#29

Tetrahydrofuran

Concen: 1.562 ug/l

RT: 5.15 min Scan# 501

Delta R.T. 0.02 min

Lab File: VD059858.D

Acq: 21 Aug 2018 16:22

Instrument :

MSVOA_D

ClientSampleId :

RA-081618-FL-036

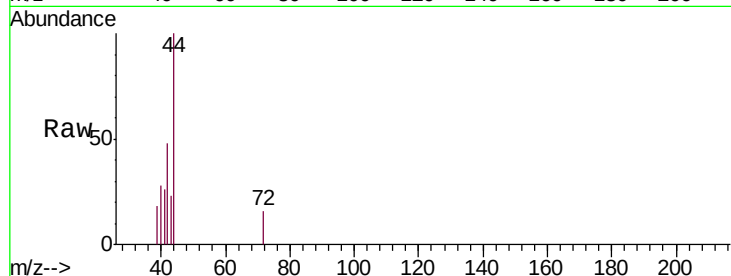
Tgt Ion: 42 Resp: 3393

Ion Ratio Lower Upper

42 100

72 7.0 25.8 38.6#

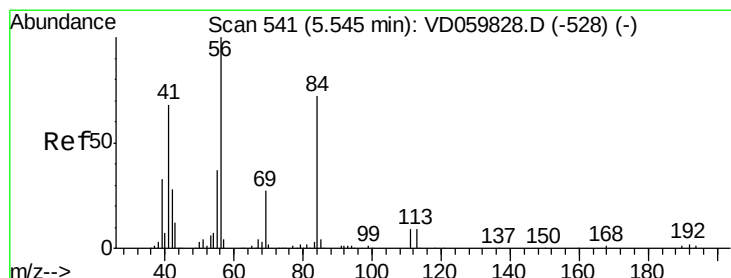
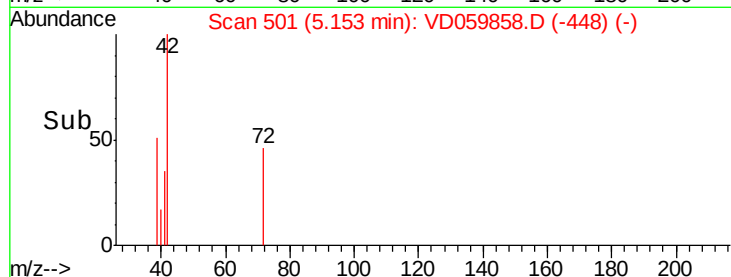
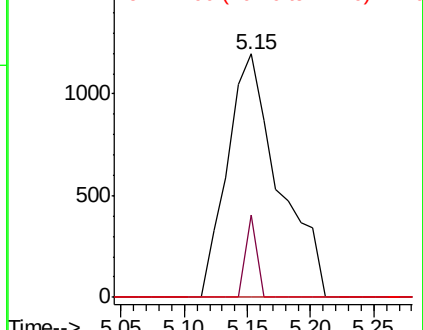
71 0.0 25.7 38.5#



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: 5.61 min Scan# 547

Delta R.T. 0.06 min

Lab File: VD059858.D

Acq: 21 Aug 2018 16:22

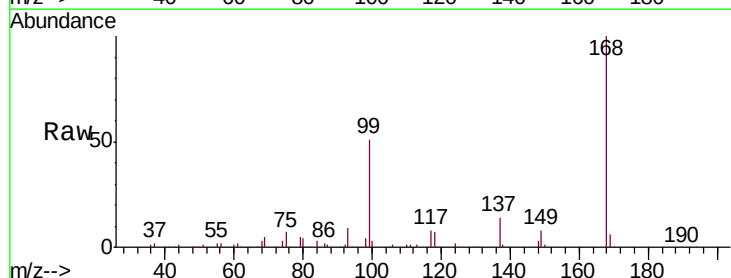
Tgt Ion: 56 Resp: 21437

Ion Ratio Lower Upper

56 100

69 235.3 21.7 32.5#

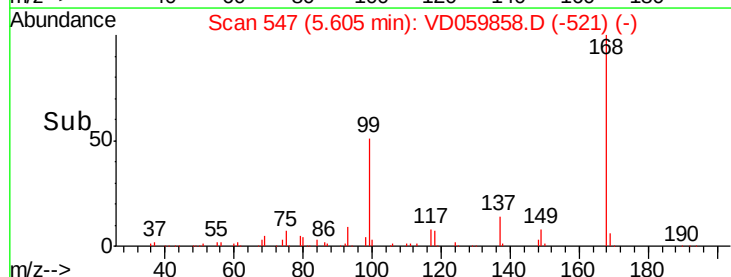
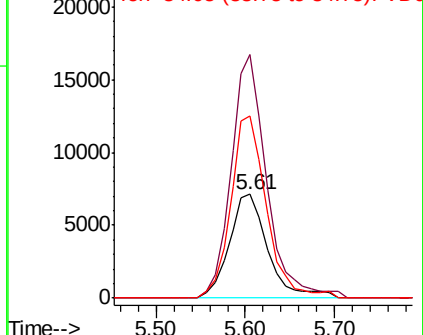
84 175.9 57.8 86.6#

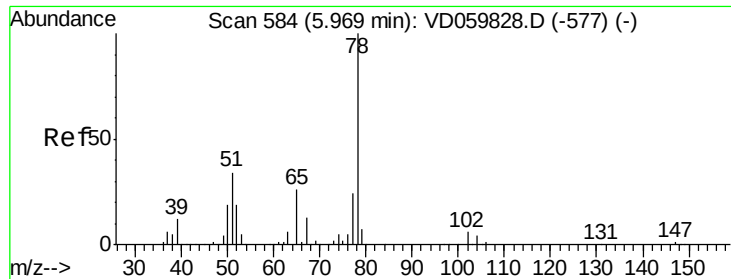


Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 69.00 (68.70 to 69.70): VDC

Ion 84.05 (83.75 to 84.75): VDC





#33

1,2-Dichloroethane-d4

Concen: N.D. ug/l

RT: 5.98 min Scan# 585

Delta R.T. 0.01 min

Lab File: VD059858.D

Acq: 21 Aug 2018 16:22

Instrument :

MSVOA_D

ClientSampleId :

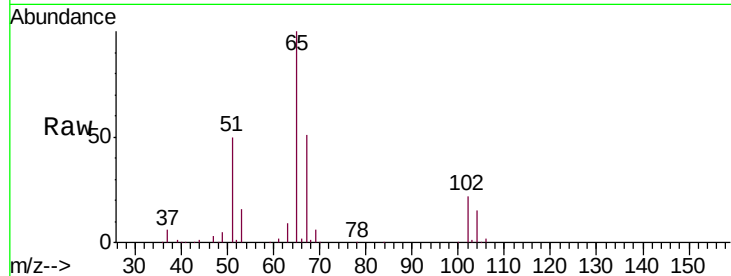
RA-081618-FL-036

Tgt Ion: 65 Resp: 443408

Ion Ratio Lower Upper

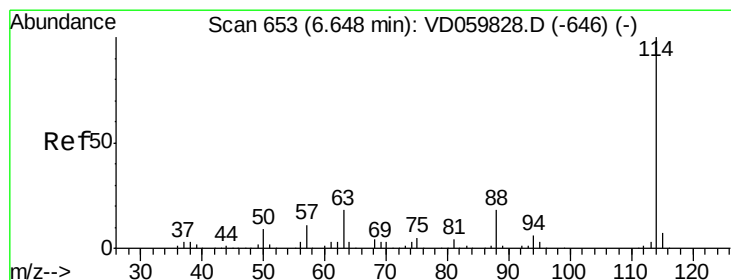
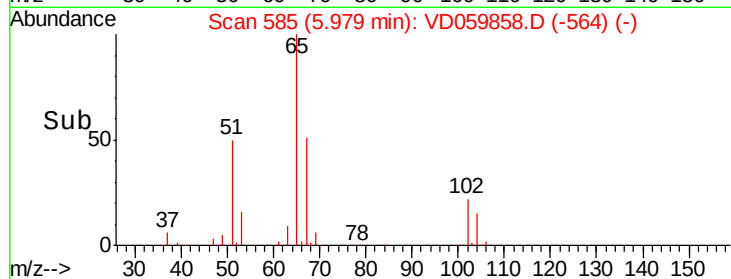
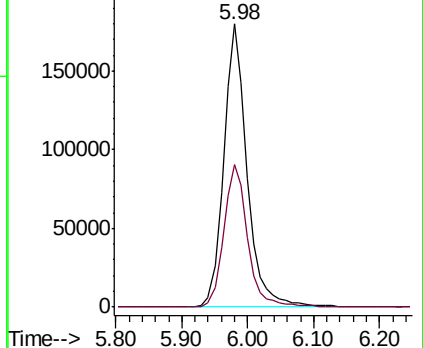
65 100

67 50.5 0.0 102.4



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: 6.66 min Scan# 654

Delta R.T. 0.01 min

Lab File: VD059858.D

Acq: 21 Aug 2018 16:22

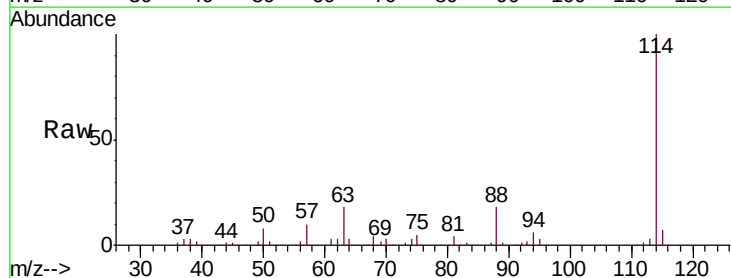
Tgt Ion: 114 Resp: 1509965

Ion Ratio Lower Upper

114 100

63 18.1 0.0 37.0

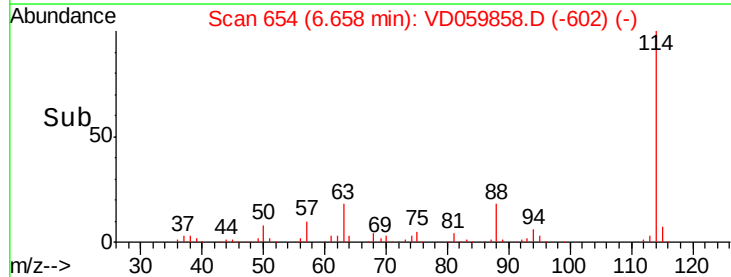
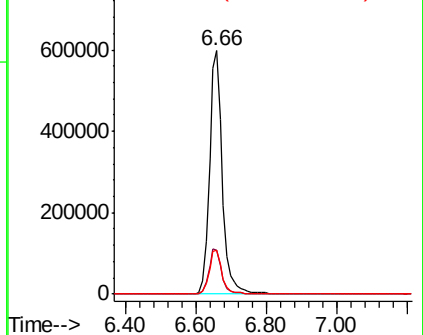
88 18.1 0.0 37.0

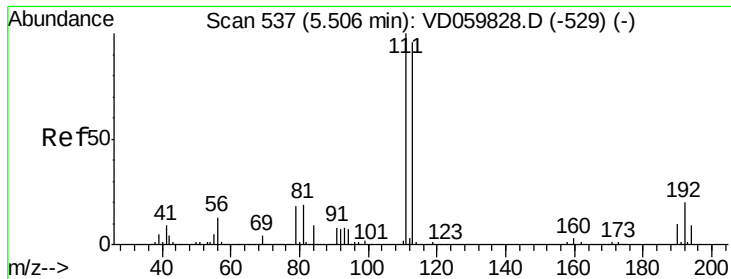


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 62.95 (62.65 to 63.65): VDC

Ion 87.90 (87.60 to 88.60): VDC

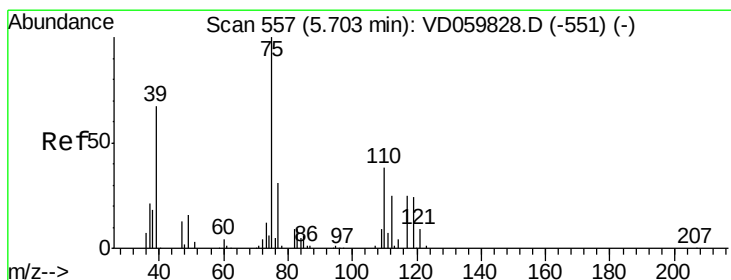
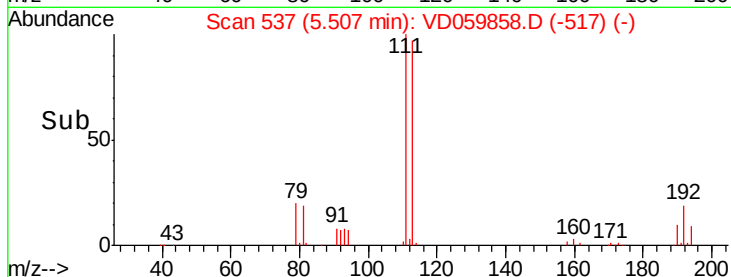
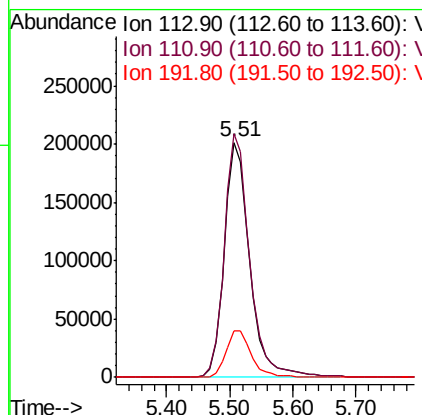
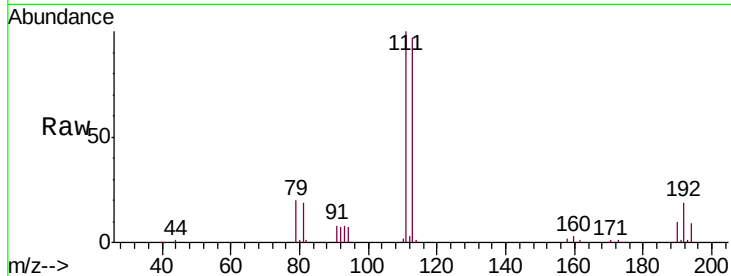




#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 5.51 min Scan# 537
 Delta R.T. 0.00 min
 Lab File: VD059858.D
 Acq: 21 Aug 2018 16:22

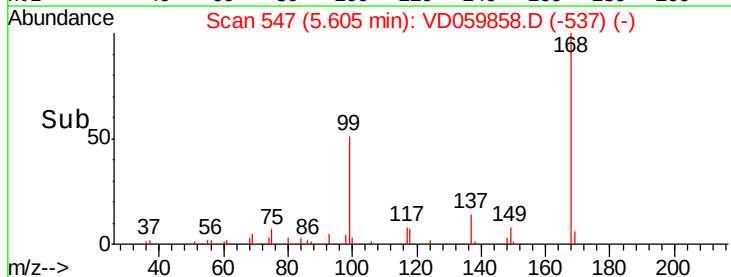
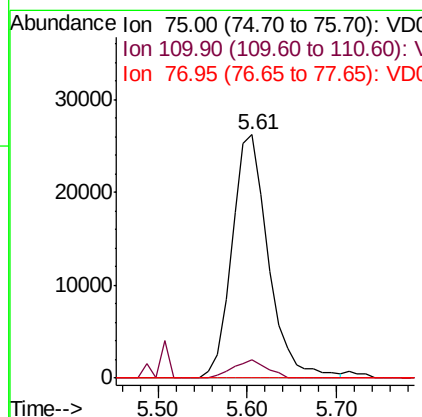
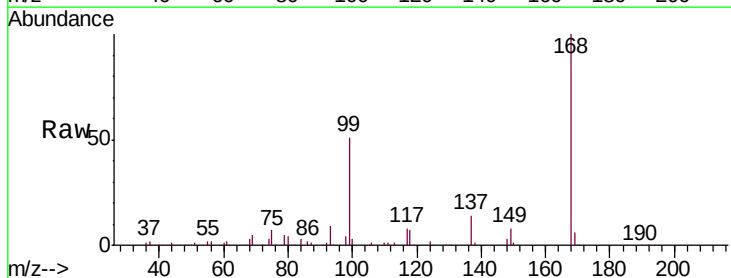
Instrument :
 MSVOA_D
 ClientSampleId :
 RA-081618-FL-036

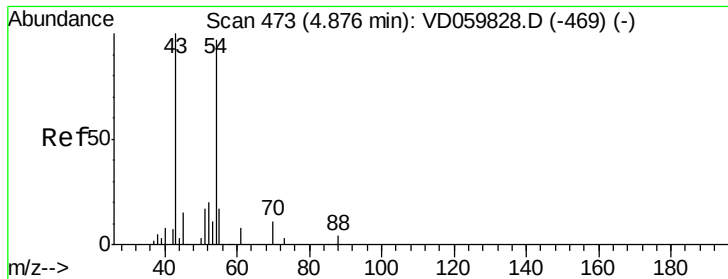
Tgt Ion	Ratio	Lower	Upper
113	100		
111	103.6	83.3	124.9
192	19.5	16.8	25.2



#36
 1,1-Dichloropropene
 Concen: 5.820 ug/l
 RT: 5.61 min Scan# 547
 Delta R.T. -0.10 min
 Lab File: VD059858.D
 Acq: 21 Aug 2018 16:22

Tgt Ion	Ratio	Lower	Upper
75	100		
110	7.5	18.8	56.4#
77	0.0	24.9	37.3#





#37

Ethyl Acetate

Concen: 5.128 ug/l

RT: 4.79 min Scan# 464

Delta R.T. -0.09 min

Lab File: VD059858.D

Acq: 21 Aug 2018 16:22

Instrument :

MSVOA_D

ClientSampleId :

RA-081618-FL-036

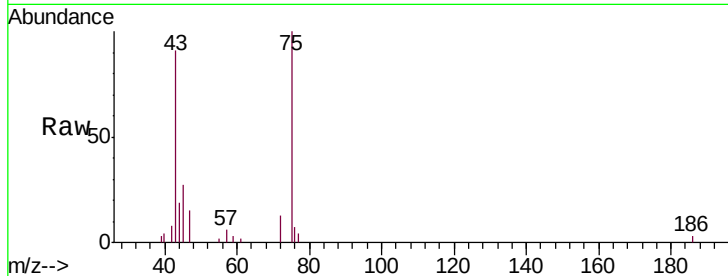
Tgt Ion: 43 Resp: 48679

Ion Ratio Lower Upper

43 100

61 2.6 10.4 15.6#

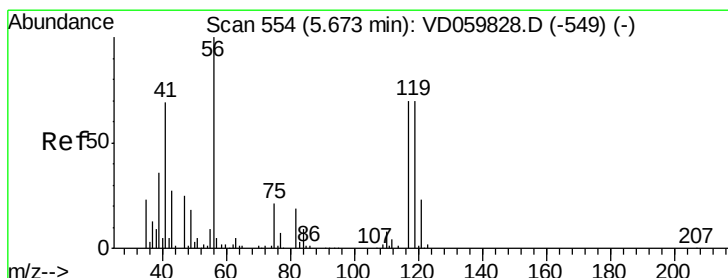
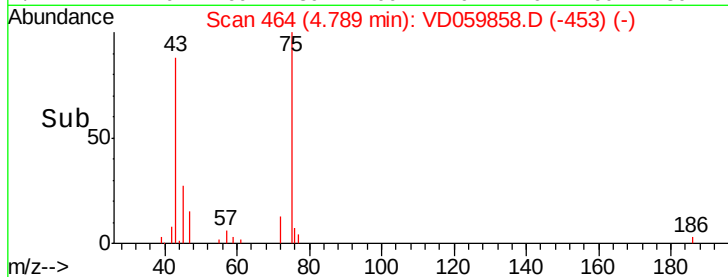
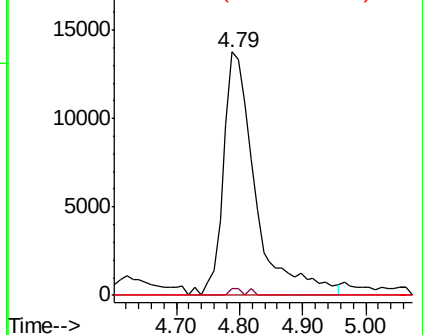
70 0.0 6.2 9.2#



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: 6.546 ug/l

RT: 5.61 min Scan# 547

Delta R.T. -0.07 min

Lab File: VD059858.D

Acq: 21 Aug 2018 16:22

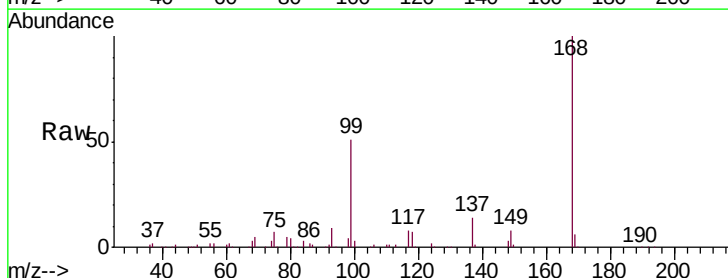
Tgt Ion: 117 Resp: 83660

Ion Ratio Lower Upper

117 100

119 5.3 77.0 115.4#

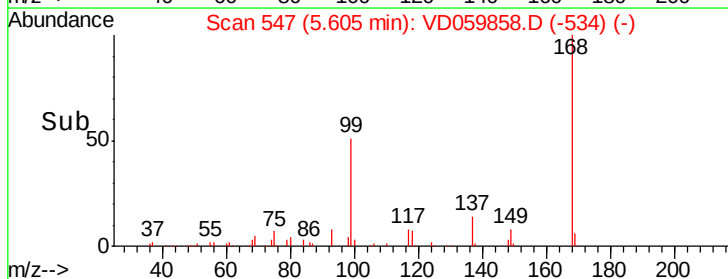
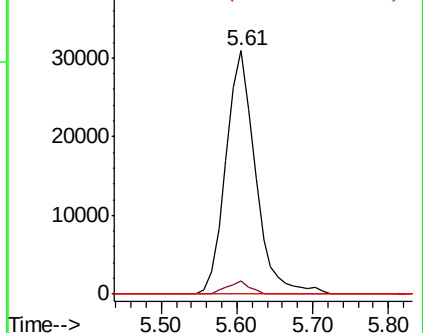
121 0.0 24.7 37.1#

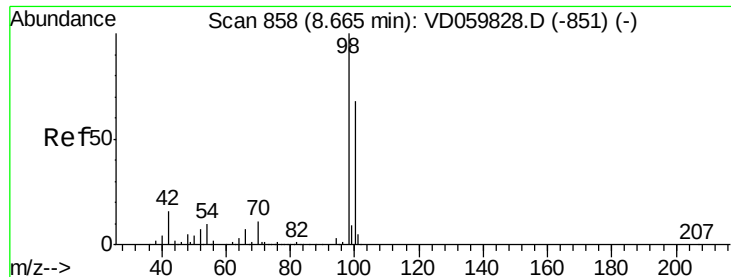


Abundance Ion 116.85 (116.55 to 117.55): V

Ion 118.85 (118.55 to 119.55): V

Ion 120.85 (120.55 to 121.55): V

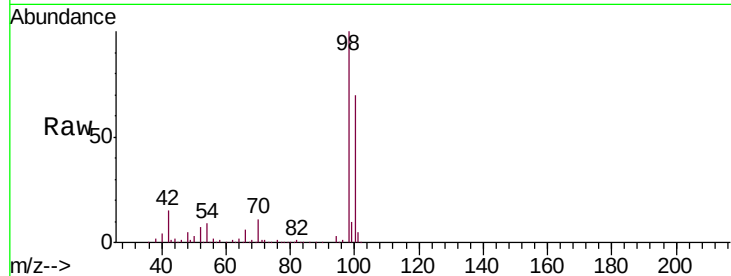




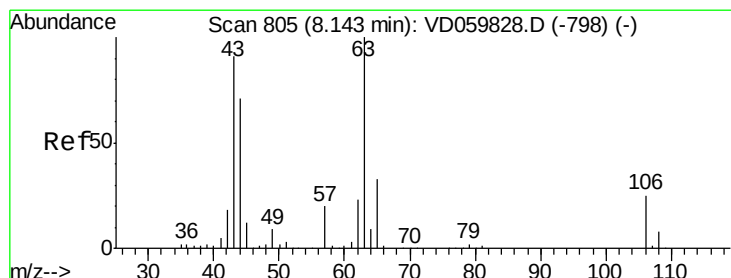
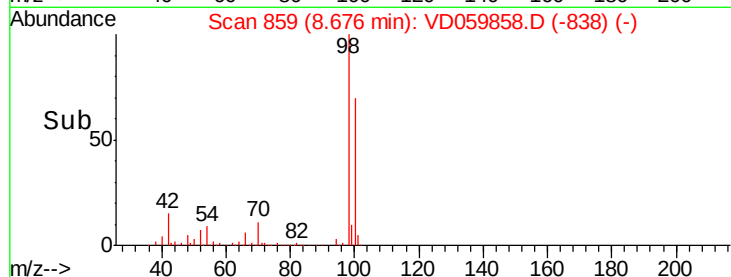
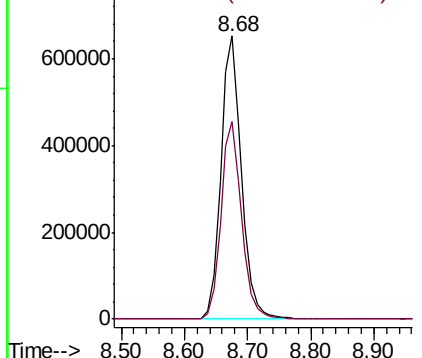
#50
Toluene-d8
Concen: N.D. ug/l
RT: 8.68 min Scan# 859
Delta R.T. 0.01 min
Lab File: VD059858.D
Acq: 21 Aug 2018 16:22

Instrument :
MSVOA_D
ClientSampleId :
RA-081618-FL-036

Tgt Ion: 98 Resp: 1474989
Ion Ratio Lower Upper
98 100
100 70.0 55.0 82.4

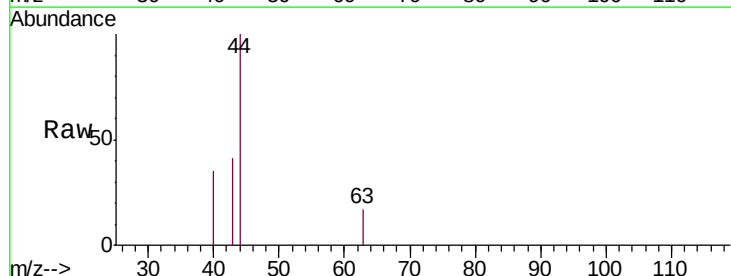


Abundance Ion 98.05 (97.75 to 98.75): VDC
Ion 100.05 (99.75 to 100.75): VDC

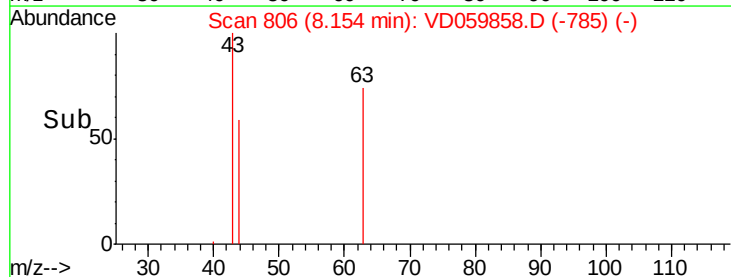
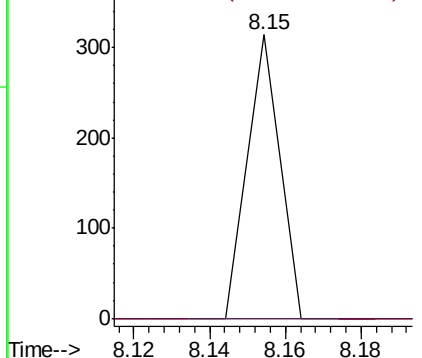


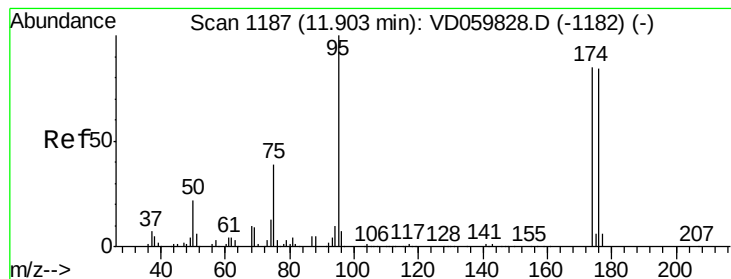
#58
2-Chloroethyl Vinyl ether
Concen: 9.535 ug/l
RT: 8.15 min Scan# 806
Delta R.T. 0.01 min
Lab File: VD059858.D
Acq: 21 Aug 2018 16:22

Tgt Ion: 63 Resp: 185
Ion Ratio Lower Upper
63 100
106 0.0 19.6 29.4#



Abundance Ion 62.95 (62.65 to 63.65): VDC
Ion 105.95 (105.65 to 106.65): VDC





#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 11.90 min Scan# 1187

Delta R.T. 0.00 min

Lab File: VD059858.D

Acq: 21 Aug 2018 16:22

Instrument :

MSVOA_D

ClientSampleId :

RA-081618-FL-036

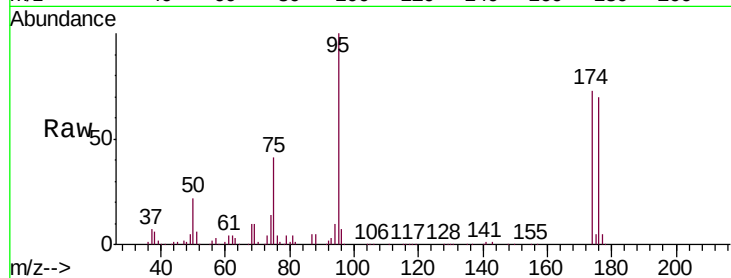
Tgt Ion: 95 Resp: 585193

Ion Ratio Lower Upper

95 100

174 73.3 0.0 169.2

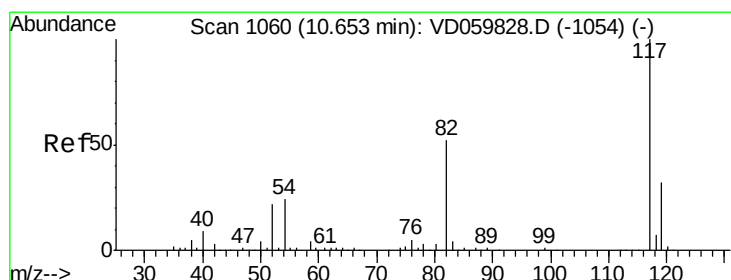
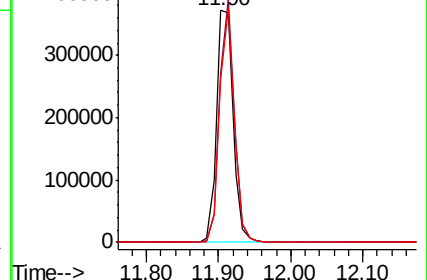
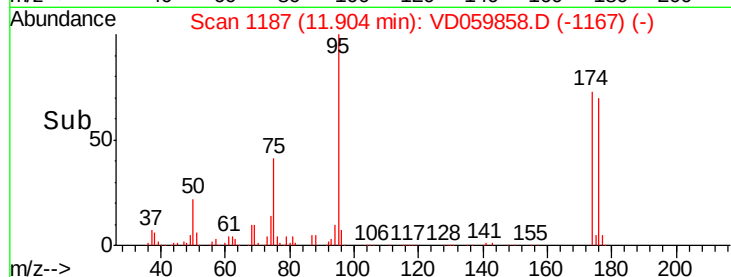
176 70.4 0.0 168.0



Abundance Ion 95.00 (94.70 to 95.70): V

Ion 173.90 (173.60 to 174.60): V

Ion 175.90 (175.60 to 176.60): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.66 min Scan# 1061

Delta R.T. 0.01 min

Lab File: VD059858.D

Acq: 21 Aug 2018 16:22

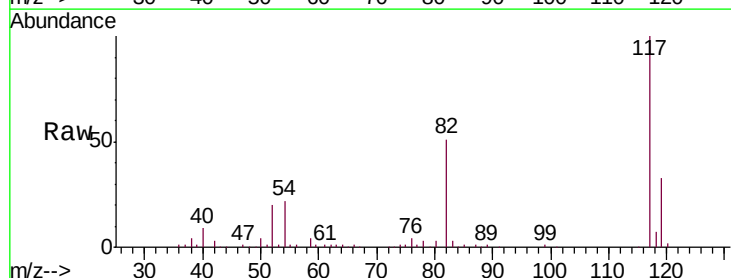
Tgt Ion: 117 Resp: 1193741

Ion Ratio Lower Upper

117 100

82 51.0 41.6 62.4

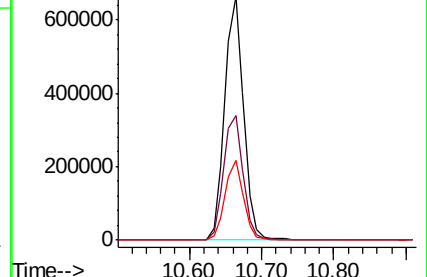
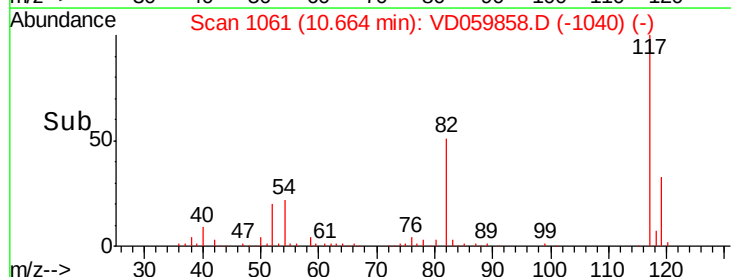
119 32.9 25.6 38.4

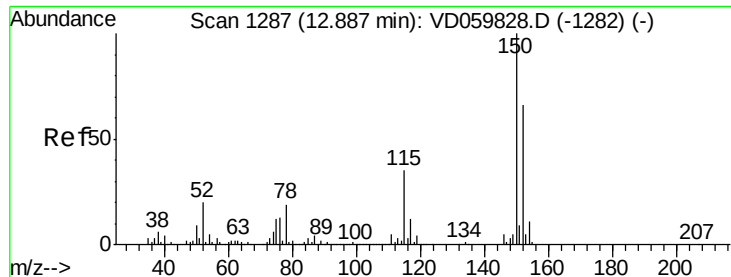


Abundance Ion 116.95 (116.65 to 117.65): V

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: 12.89 min Scan# 1287

Delta R.T. 0.00 min

Lab File: VD059858.D

Acq: 21 Aug 2018 16:22

Instrument :

MSVOA_D

ClientSampleId :

RA-081618-FL-036

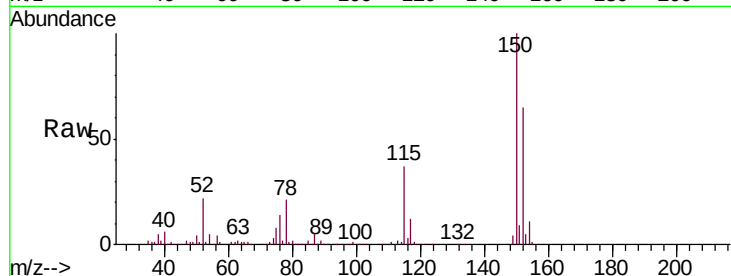
Tgt Ion:152 Resp: 579828

Ion Ratio Lower Upper

152 100

115 56.5 26.9 80.6

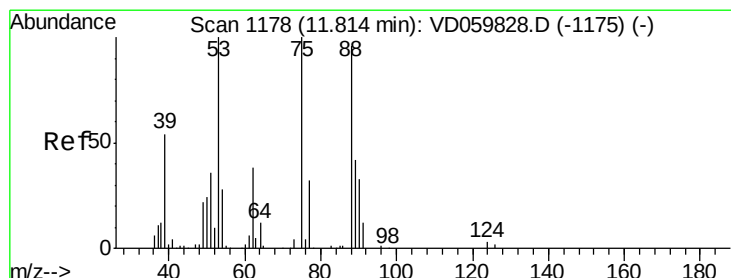
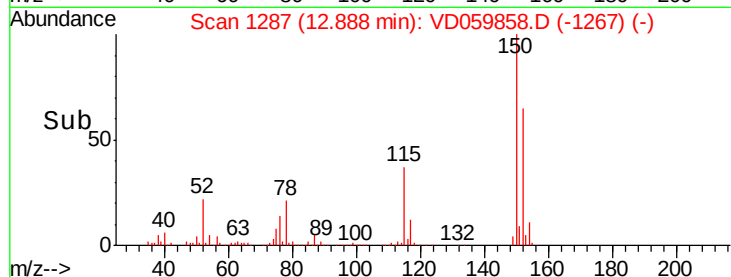
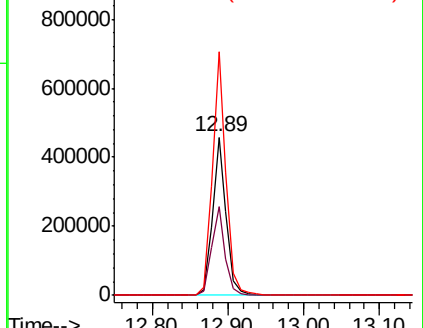
150 154.3 0.0 306.8



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: 77.552 ug/l

RT: 11.90 min Scan# 1187

Delta R.T. 0.09 min

Lab File: VD059858.D

Acq: 21 Aug 2018 16:22

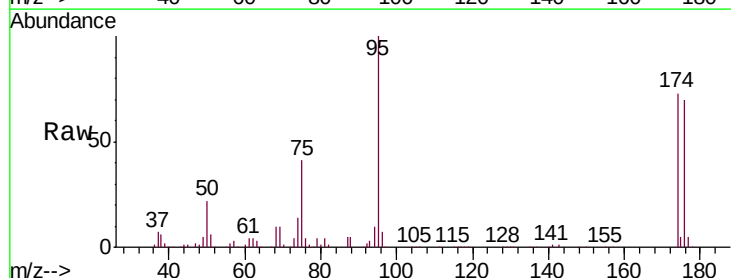
Tgt Ion: 75 Resp: 232556

Ion Ratio Lower Upper

75 100

53 0.0 80.7 121.1#

89 0.0 33.9 50.9#



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

