

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD062118\
 Data File : VD058282.D
 Acq On : 22 Jun 2018 7:10
 Operator : VA/AP
 Sample : J3594-07
 Misc : 6.91g/5ml/MSVOA D/SOIL
 ALS Vial : 41 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 HC-SOIL-4

Quant Time: Jun 22 08:25:31 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D061918S.M
 Quant Title : SW846 8260
 QLast Update : Wed Jun 20 05:52:56 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	3365	50.00	ug/l	0.01
34) 1,4-Difluorobenzene	6.70	114	7210	50.00	ug/l	0.01
63) Chlorobenzene-d5	10.70	117	8891	50.00	ug/l	0.01
72) 1,4-Dichlorobenzene-d4	12.90	152	3643	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.02	65	5671	166.85	ug/l	0.01
Spiked Amount				50.000		
Recovery						333.70%
35) Dibromofluoromethane	5.54	113	1288	21.95	ug/l	0.00
Spiked Amount				50.000		
Recovery						43.90%
50) Toluene-d8	8.71	98	7319	51.55	ug/l	0.00
Spiked Amount				50.000		
Recovery						103.10%
62) 4-Bromofluorobenzene	11.94	95	4661	80.37	ug/l	0.01
Spiked Amount				50.000		
Recovery						160.74%

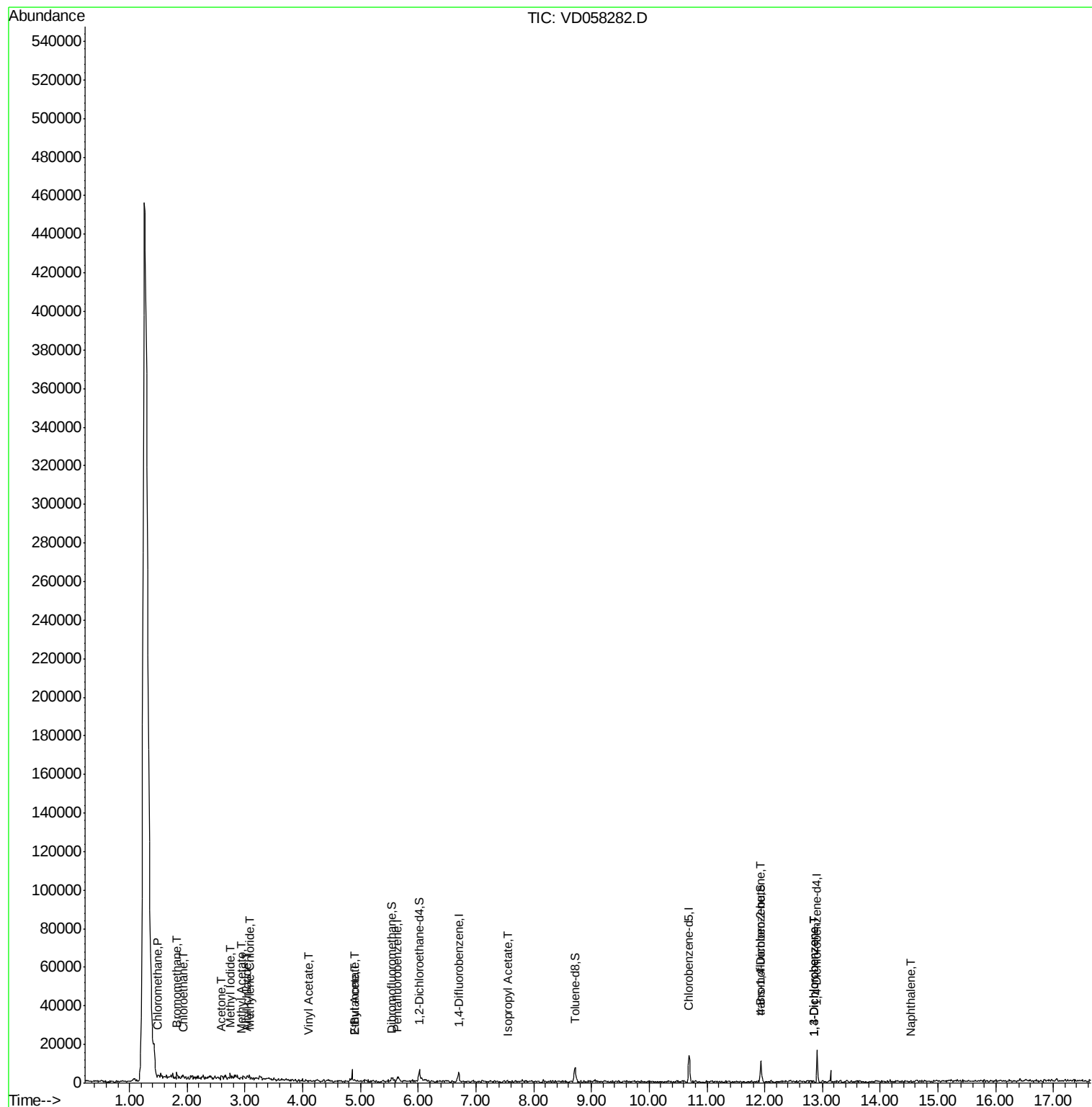
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.50	50	200	10.146	ug/l #	43
5) Bromomethane	1.82	94	200	31.453	ug/l #	3
6) Chloroethane	1.95	64	191	27.904	ug/l #	41
10) Methyl Iodide	2.75	142	201	11.500	ug/l #	28
14) Allyl chloride	3.04	41	526	19.549	ug/l #	10
16) Acetone	2.60	43	214	46.039	ug/l #	62
18) Methyl Acetate	2.93	43	210	21.184	ug/l #	65
20) Methylene Chloride	3.08	84	206	13.497	ug/l #	1
23) Vinyl Acetate	4.10	43	183	3.194	ug/l #	82
25) 2-Butanone	4.91	43	229	22.604	ug/l #	60
37) Ethyl Acetate	4.91	43	229	5.635	ug/l #	72
43) Isopropyl Acetate	7.54	43	181	3.341	ug/l #	48
81) trans-1,4-Dichloro-2-buten	11.93	75	2056	158.491	ug/l #	1
87) 1,3-Dichlorobenzene	12.84	146	184	1.622	ug/l #	25
88) 1,4-Dichlorobenzene	12.84	146	184	1.661	ug/l #	25
95) Naphthalene	14.52	128	258	2.122	ug/l #	1

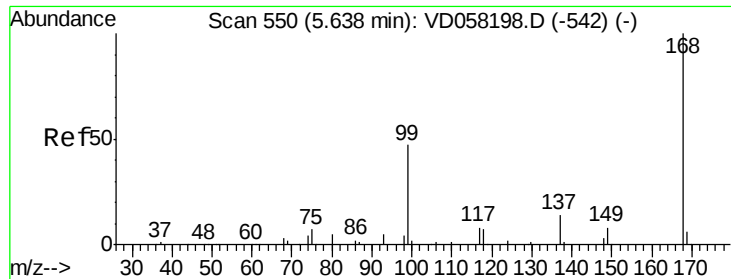
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Wed Jun 20 05:52:56 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 551

Delta R.T. 0.01 min

Lab File: VD058282.D

Acq: 22 Jun 2018 7:10

Instrument :

MSVOA_D

ClientSampleId :

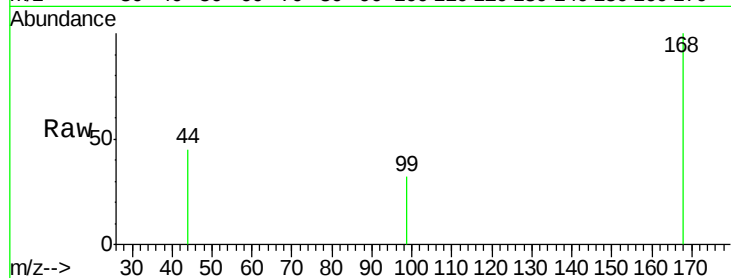
HC-SOIL-4

Tot Ion:168 Resp: 3365

Ion Ratio Lower Upper

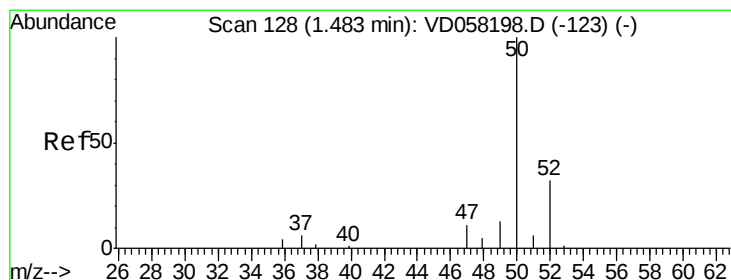
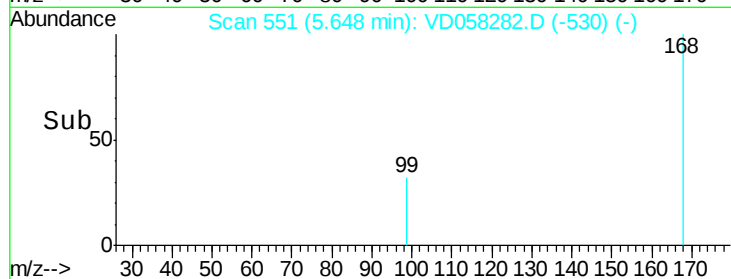
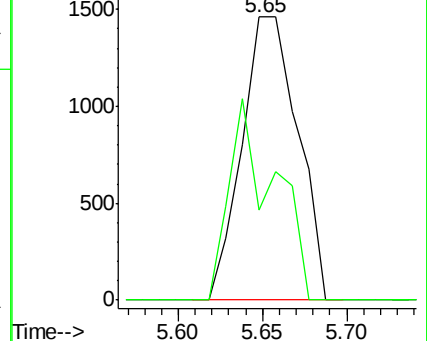
168 100

99 32.0 41.1 61.7#



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#3

Chloromethane

Concen: 10.146 ug/l

RT: 1.50 min Scan# 130

Delta R.T. 0.02 min

Lab File: VD058282.D

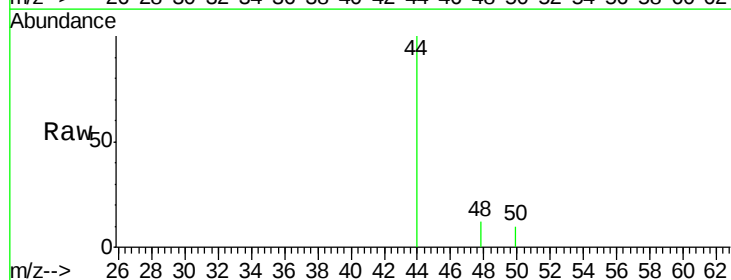
Acq: 22 Jun 2018 7:10

Tgt Ion: 50 Resp: 200

Ion Ratio Lower Upper

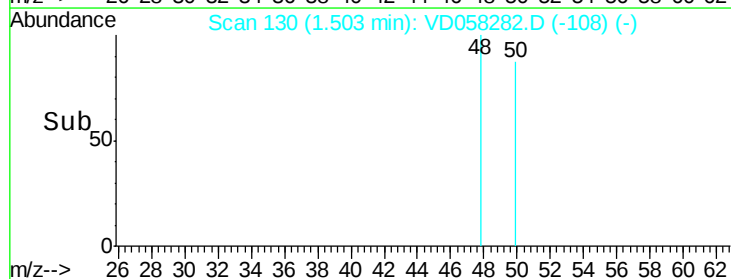
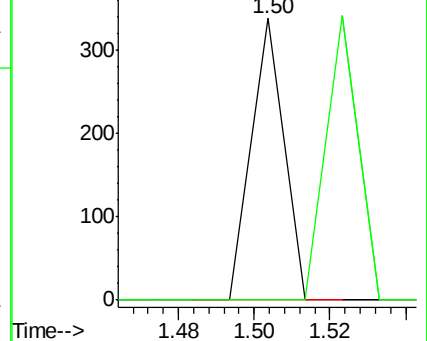
50 100

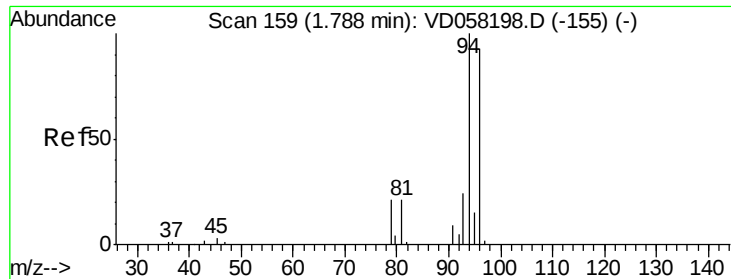
52 0.0 25.0 37.4#



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC





#5

Bromomethane

Concen: 31.453 ug/l

RT: 1.82 min Scan# 162

Delta R.T. 0.03 min

Lab File: VD058282.D

Acq: 22 Jun 2018 7:10

Instrument :

MSVOA_D

ClientSampleId :

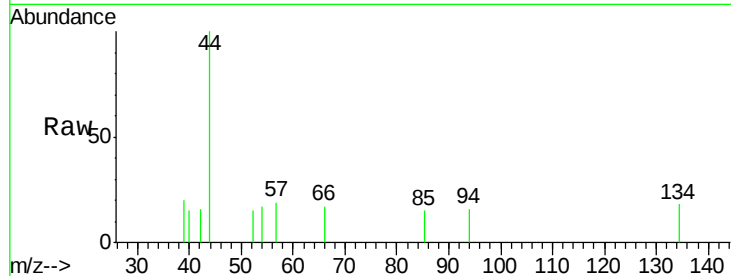
HC-SOIL-4

Tot Ion: 94 Resp: 200

Ion Ratio Lower Upper

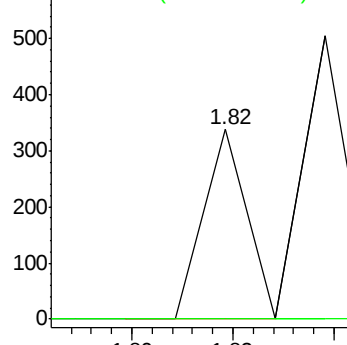
94 100

96 0.0 74.2 111.2#

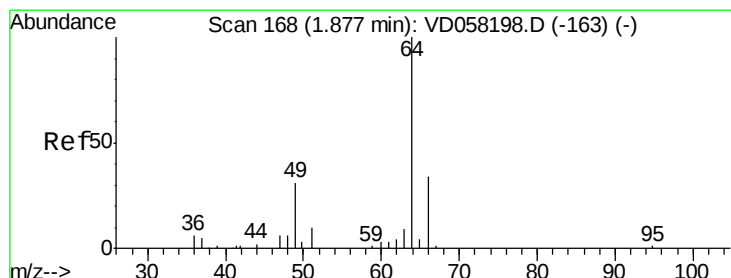
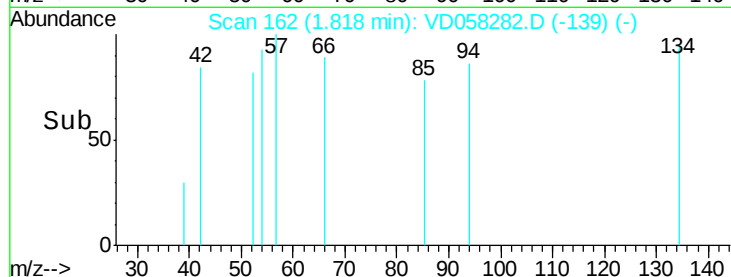


Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC



Time-->



#6

Chloroethane

Concen: 27.904 ug/l

RT: 1.95 min Scan# 175

Delta R.T. 0.07 min

Lab File: VD058282.D

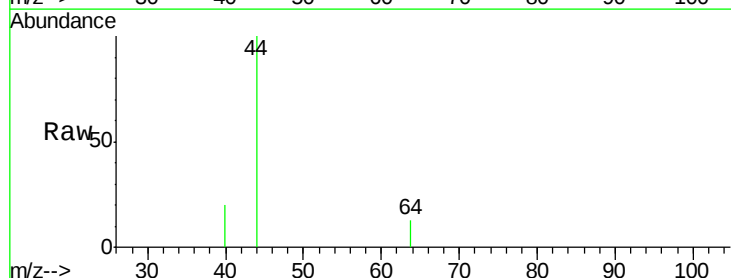
Acq: 22 Jun 2018 7:10

Tgt Ion: 64 Resp: 191

Ion Ratio Lower Upper

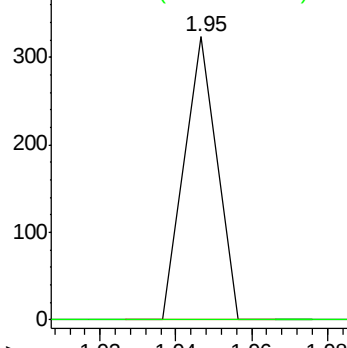
64 100

66 0.0 27.3 40.9#

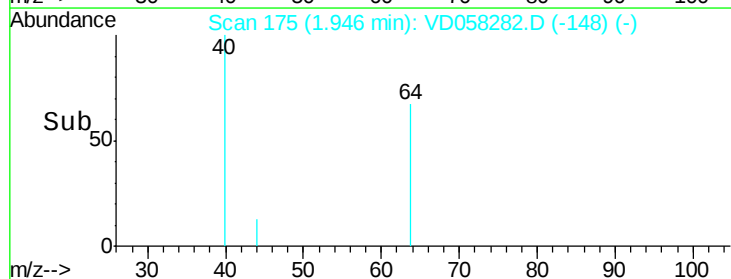


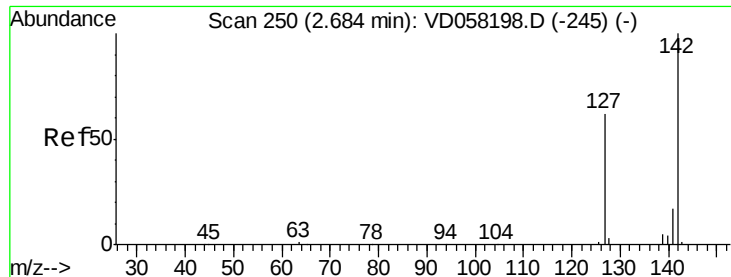
Abundance Ion 63.95 (63.65 to 64.65): VDC

Ion 65.90 (65.60 to 66.60): VDC



Time-->

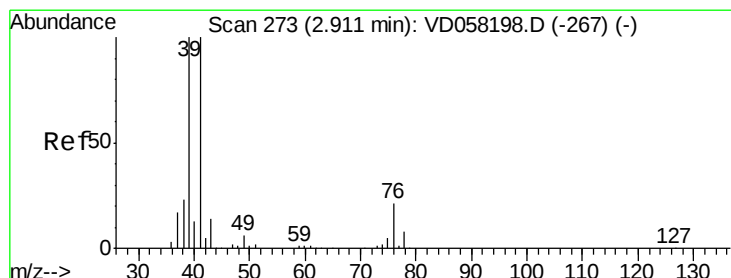
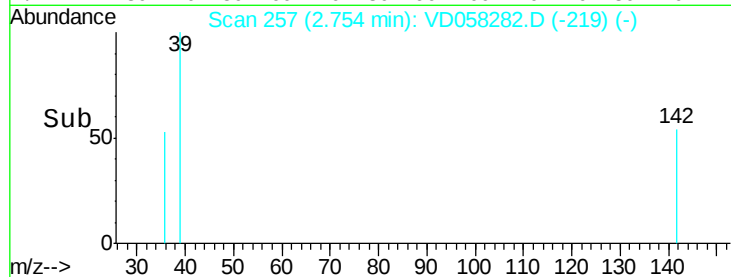
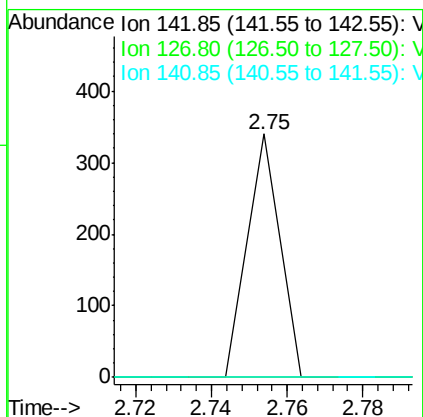
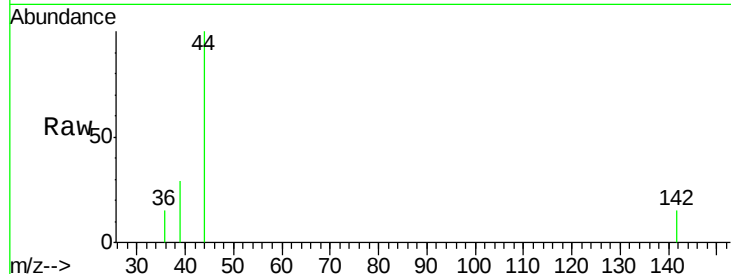




#10
Methvl Iodide
Concen: 11.500 ug/l
RT: 2.75 min Scan# 257
Delta R.T. 0.07 min
Lab File: VD058282.D
Acq: 22 Jun 2018 7:10

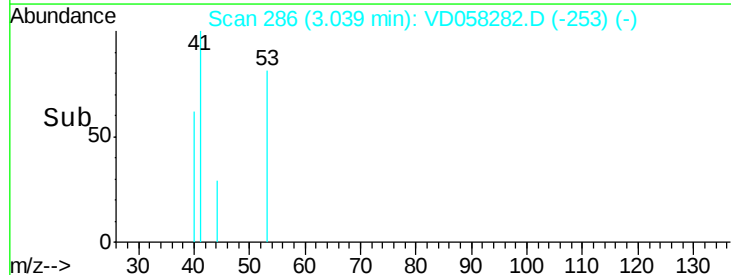
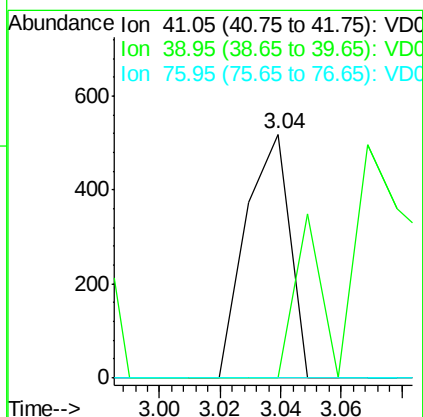
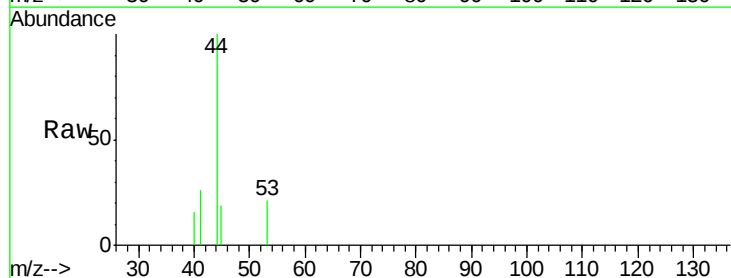
Instrument :
MSVOA_D
ClientSampleId :
HC-SOIL-4

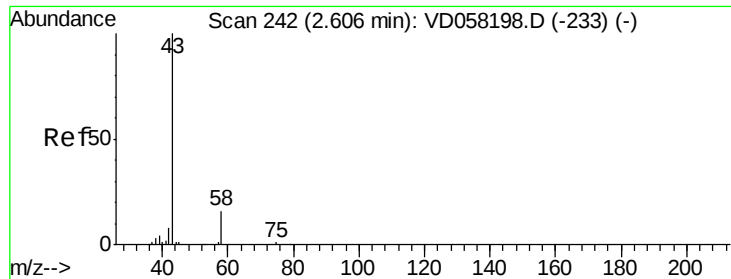
Tot Ion:142 Resp: 201
Ion Ratio Lower Upper
142 100
127 0.0 49.4 74.0#
141 0.0 13.5 20.3#



#14
Allyl chloride
Concen: 19.549 ug/l
RT: 3.04 min Scan# 286
Delta R.T. 0.13 min
Lab File: VD058282.D
Acq: 22 Jun 2018 7:10

Tgt Ion: 41 Resp: 526
Ion Ratio Lower Upper
41 100
39 0.0 80.1 120.1#
76 0.0 19.4 29.2#





#16

Acetone

Concen: 46.039 ug/l

RT: 2.60 min Scan# 241

Delta R.T. -0.01 min

Lab File: VD058282.D

Acq: 22 Jun 2018 7:10

Instrument :

MSVOA_D

ClientSampleId :

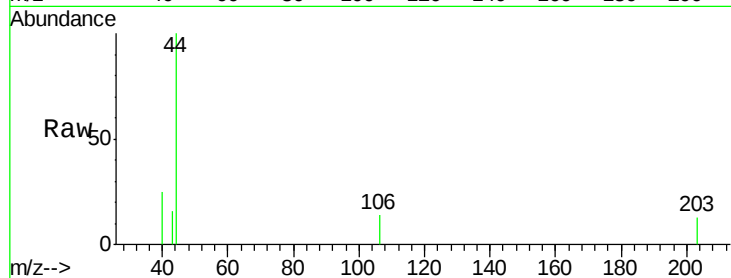
HC-SOIL-4

Tot Ion: 43 Resp: 214

Ion Ratio Lower Upper

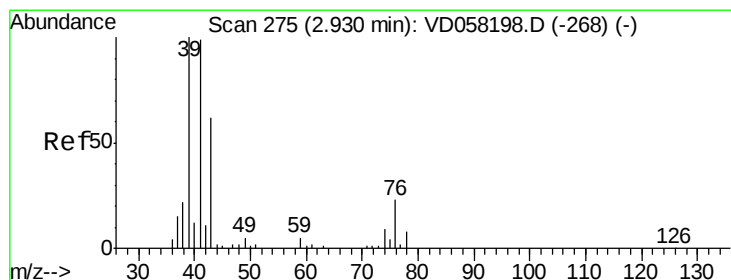
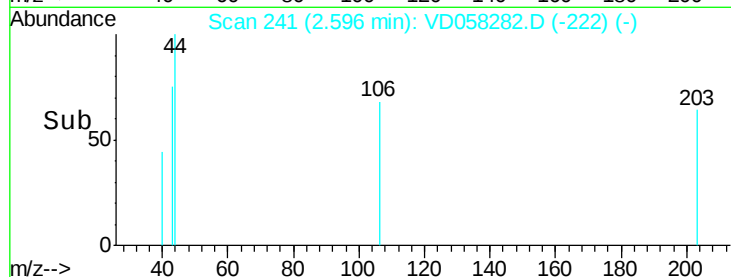
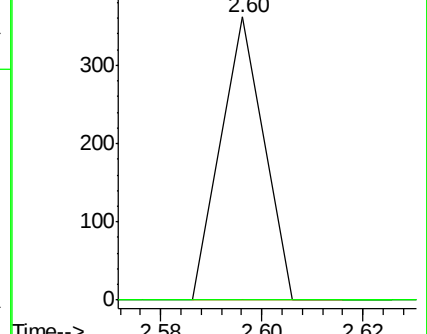
43 100

58 0.0 12.7 19.1#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#18

Methyl Acetate

Concen: 21.184 ug/l

RT: 2.93 min Scan# 275

Delta R.T. 0.00 min

Lab File: VD058282.D

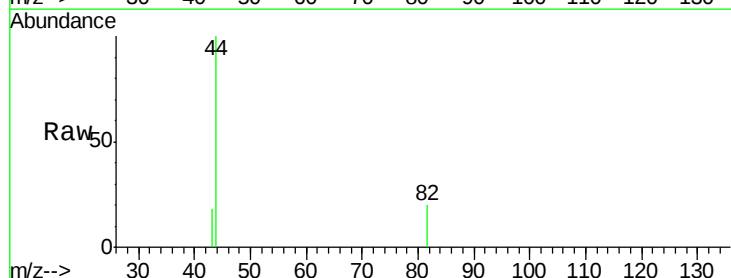
Acq: 22 Jun 2018 7:10

Tgt Ion: 43 Resp: 210

Ion Ratio Lower Upper

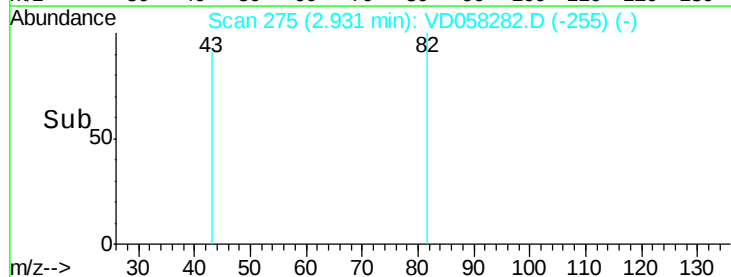
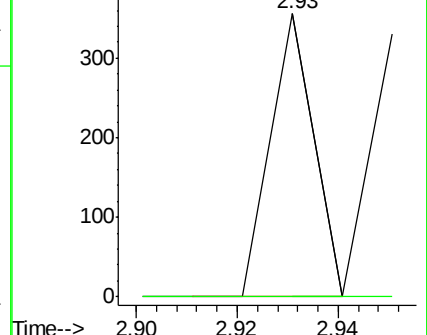
43 100

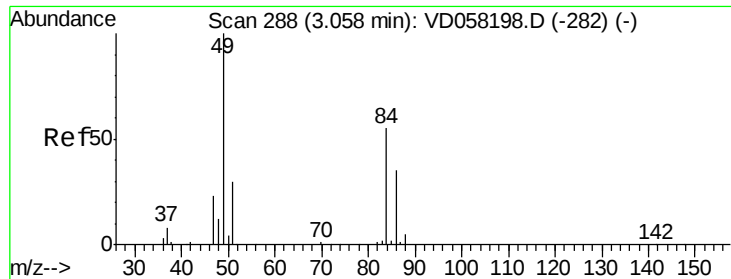
74 0.0 11.7 17.5#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 74.00 (73.70 to 74.70): VDC

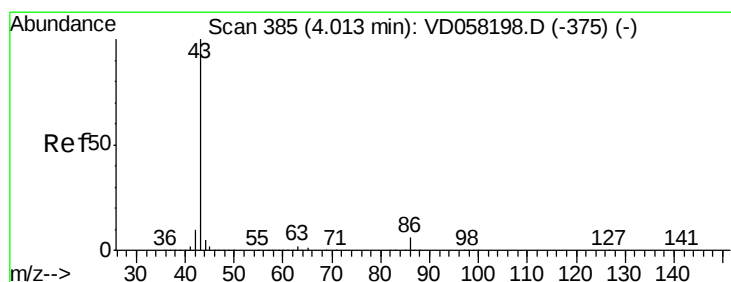
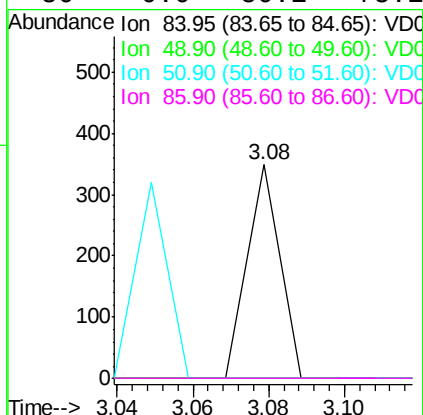
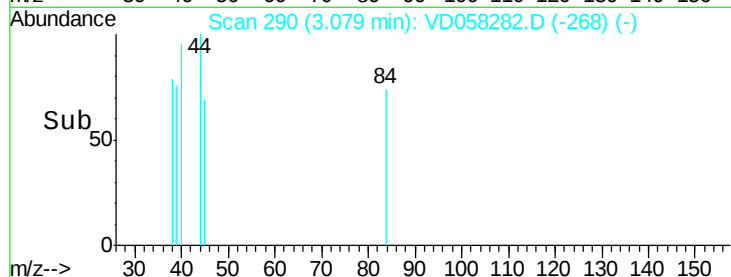
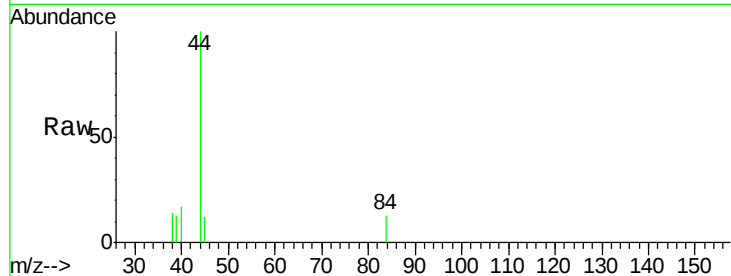




#20
Methvlene Chloride
Concen: 13.497 ug/l
RT: 3.08 min Scan# 290
Delta R.T. 0.02 min
Lab File: VD058282.D
Acq: 22 Jun 2018 7:10

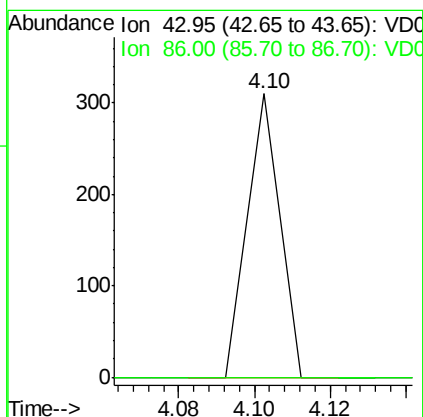
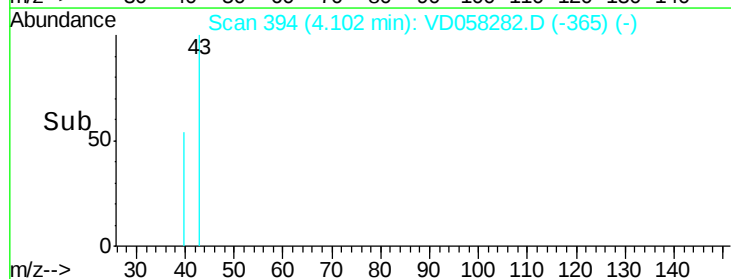
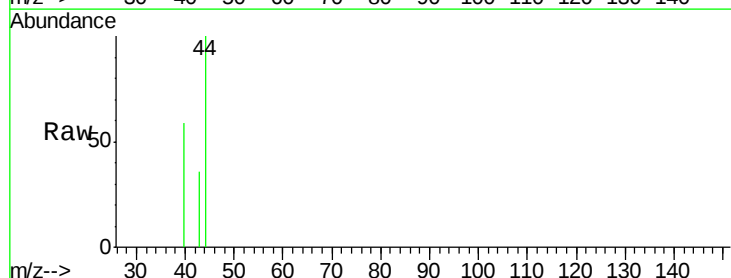
Instrument :
MSVOA_D
ClientSampleId :
HC-SOIL-4

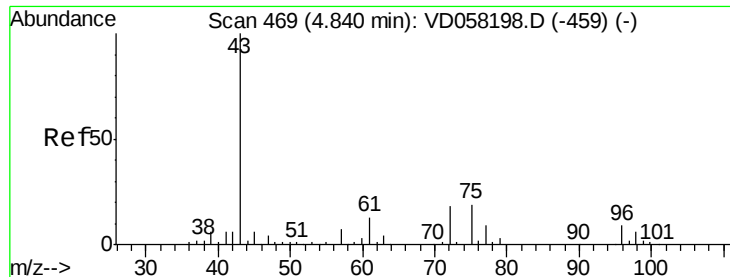
Tot Ion: 84 Resp: 206
Ion Ratio Lower Upper
84 100
49 0.0 145.0 217.6#
51 0.0 42.9 64.3#
86 0.0 50.1 75.1#



#23
Vinyl Acetate
Concen: 3.194 ug/l
RT: 4.10 min Scan# 394
Delta R.T. 0.09 min
Lab File: VD058282.D
Acq: 22 Jun 2018 7:10

Tgt Ion: 43 Resp: 183
Ion Ratio Lower Upper
43 100
86 0.0 5.0 7.4#





#25

2-Butanone

Concen: 22.604 ug/l

RT: 4.91 min Scan# 476

Delta R.T. 0.07 min

Lab File: VD058282.D

Acq: 22 Jun 2018 7:10

Instrument :

MSVOA_D

ClientSampleId :

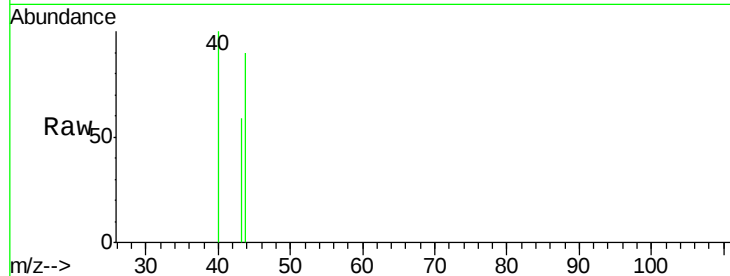
HC-SOIL-4

Tot Ion: 43 Resp: 229

Ion Ratio Lower Upper

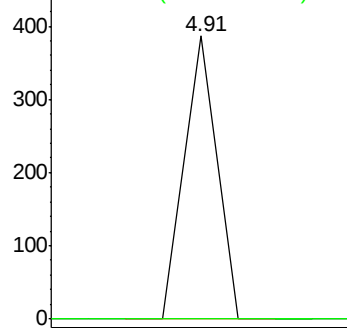
43 100

72 0.0 14.1 21.1#

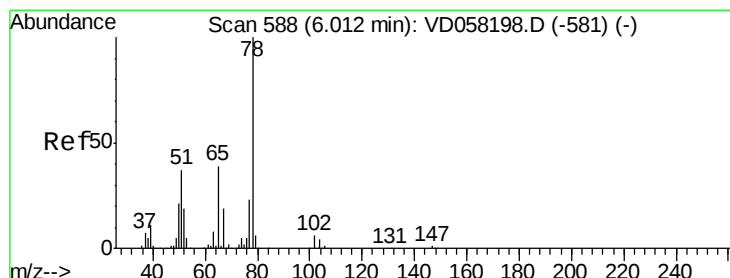
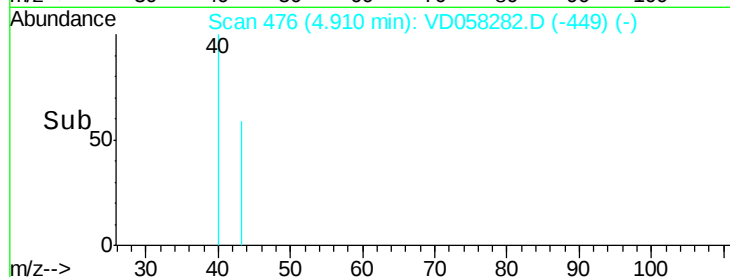


Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC



Time-->



#33

1,2-Dichloroethane-d4

Concen: N.D. ug/l

RT: 6.02 min Scan# 589

Delta R.T. 0.01 min

Lab File: VD058282.D

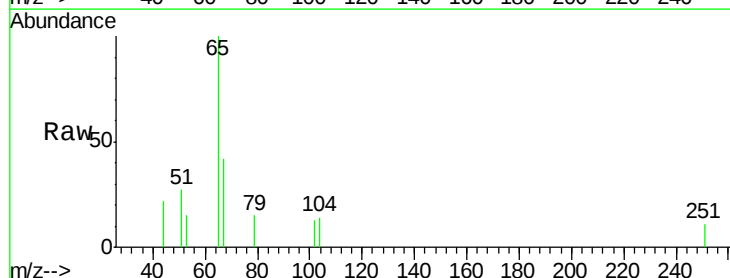
Acq: 22 Jun 2018 7:10

Tgt Ion: 65 Resp: 5671

Ion Ratio Lower Upper

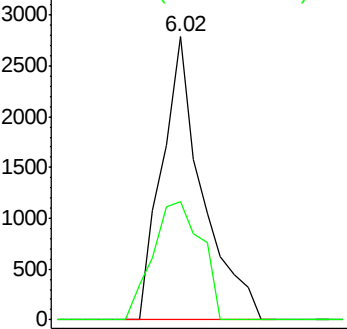
65 100

67 41.6 0.0 97.8

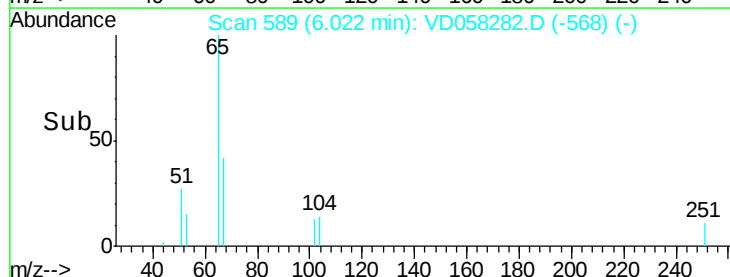


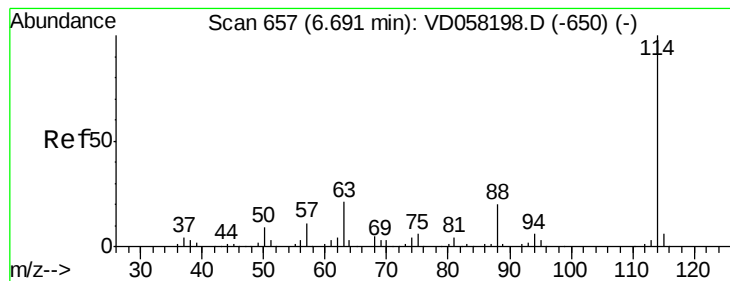
Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC



Time-->





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.70 min Scan# 658

Delta R.T. 0.01 min

Lab File: VD058282.D

Acq: 22 Jun 2018 7:10

Instrument :

MSVOA_D

ClientSampleId :

HC-SOIL-4

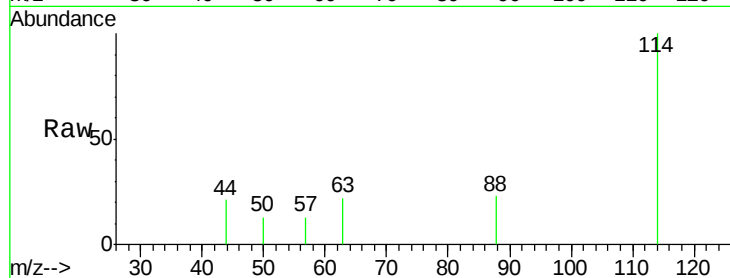
Tot Ion:114 Resp: 7210

Ion Ratio Lower Upper

114 100

63 22.3 0.0 42.6

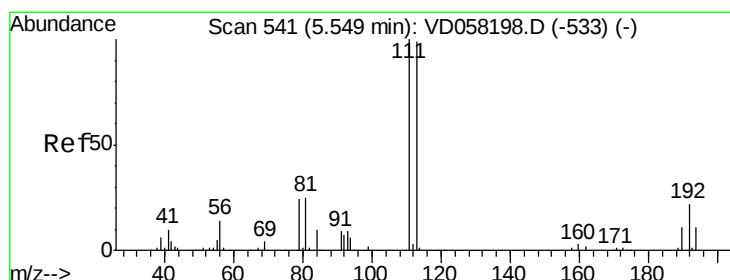
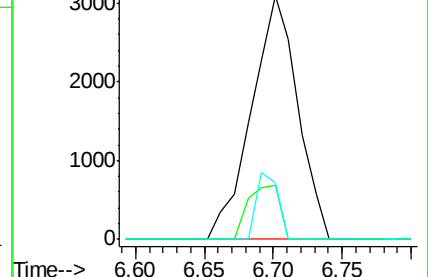
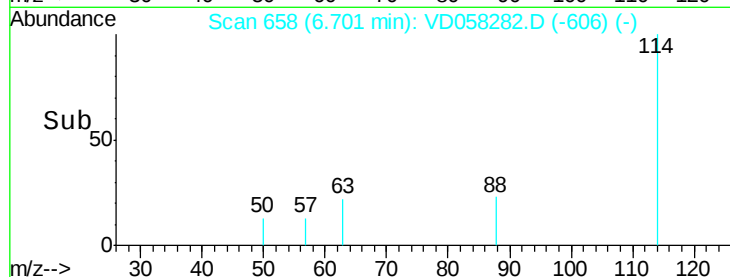
88 23.1 0.0 40.6



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



#35

Dibromofluoromethane

Concen: 50.000 ug/l

RT: 5.54 min Scan# 540

Delta R.T. -0.01 min

Lab File: VD058282.D

Acq: 22 Jun 2018 7:10

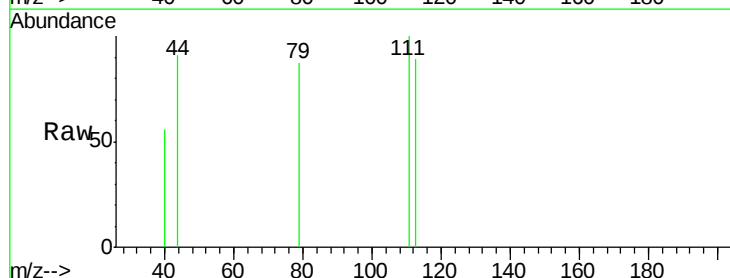
Tgt Ion:113 Resp: 1288

Ion Ratio Lower Upper

113 100

111 111.9 80.6 121.0

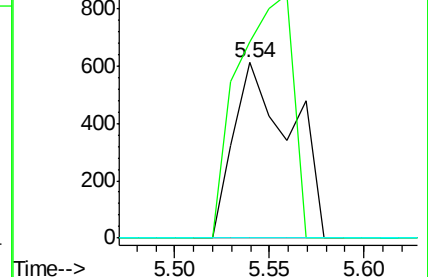
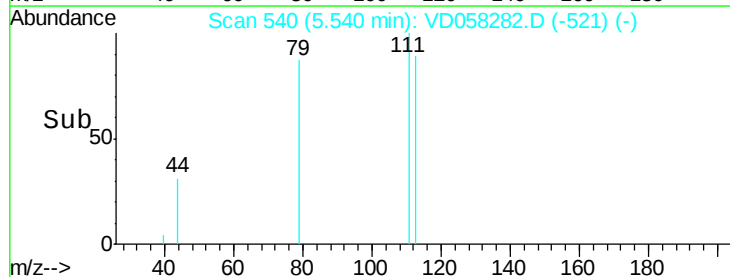
192 0.0 17.8 26.6#

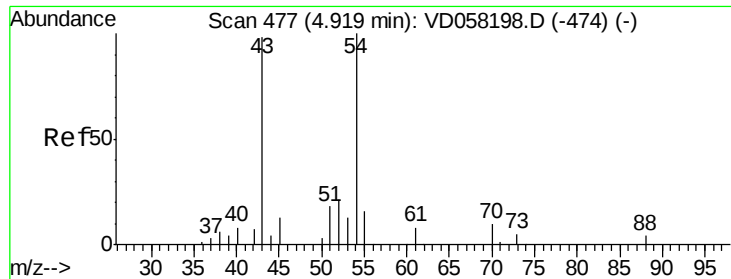


Abundance Ion 112.90 (112.60 to 113.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 191.80 (191.50 to 192.50): V

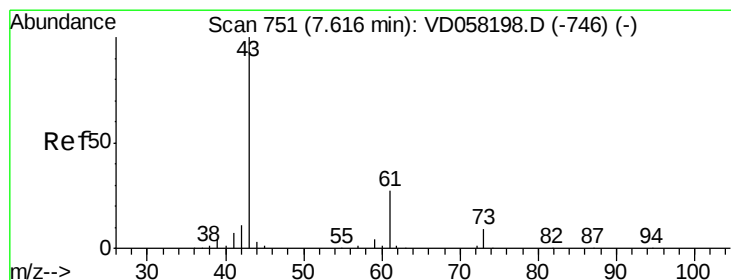
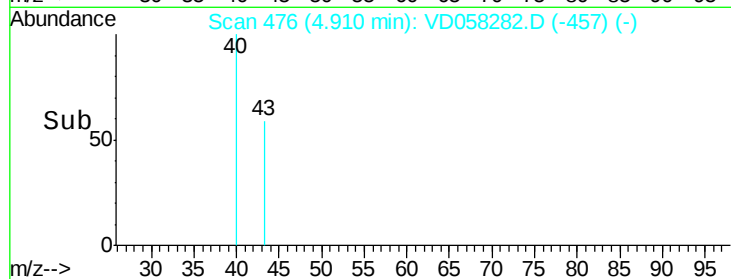
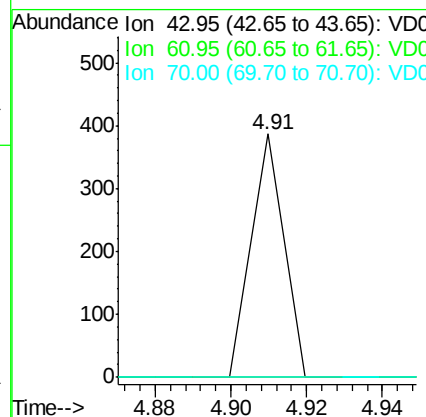
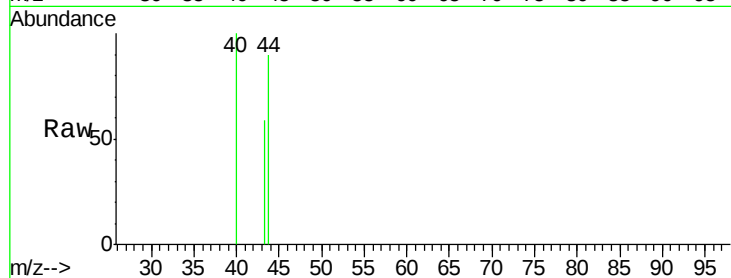




#37
Ethyl Acetate
Concen: 5.635 ug/l
RT: 4.91 min Scan# 476
Delta R.T. -0.01 min
Lab File: VD058282.D
Acq: 22 Jun 2018 7:10

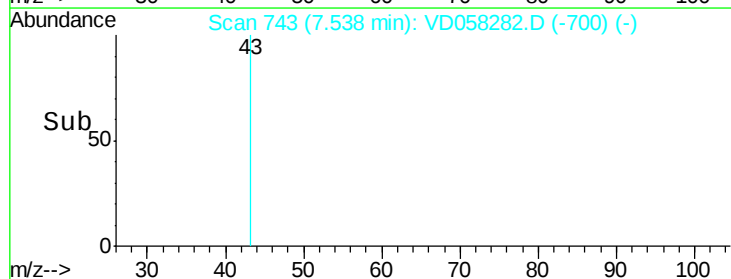
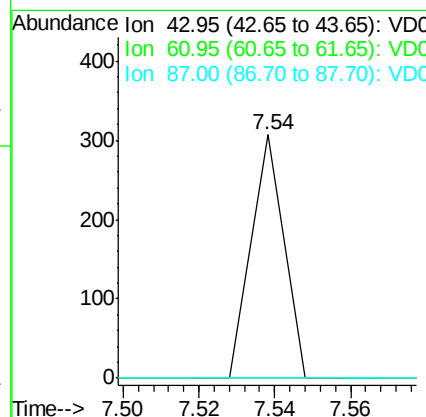
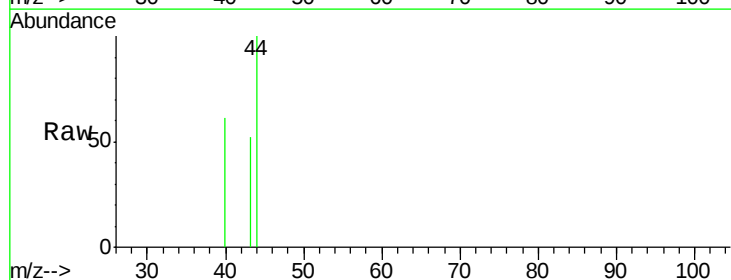
Instrument :
MSVOA_D
ClientSampleId :
HC-SOIL-4

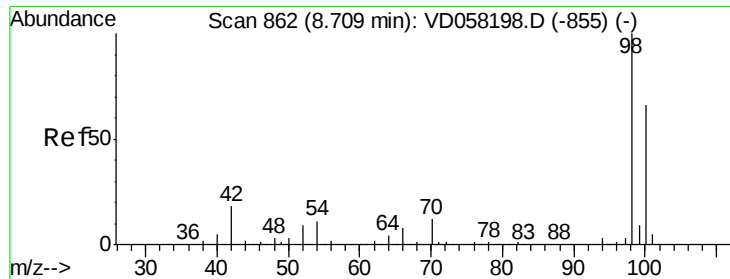
Tot Ion: 43 Resp: 229
Ion Ratio Lower Upper
43 100
61 0.0 10.3 15.5#
70 0.0 5.7 8.5#



#43
Isopropyl Acetate
Concen: 3.341 ug/l
RT: 7.54 min Scan# 743
Delta R.T. -0.08 min
Lab File: VD058282.D
Acq: 22 Jun 2018 7:10

Tgt Ion: 43 Resp: 181
Ion Ratio Lower Upper
43 100
61 0.0 21.8 32.6#
87 0.0 0.3 0.5#

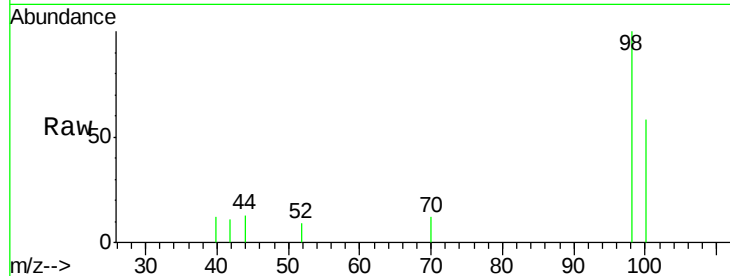




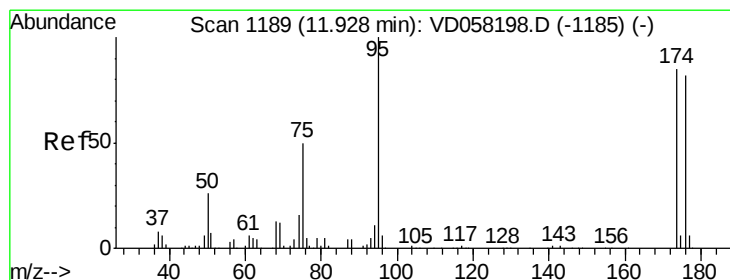
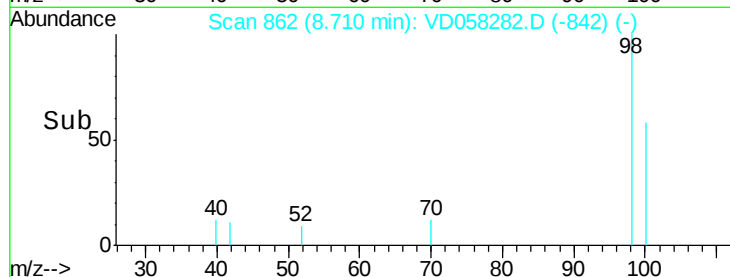
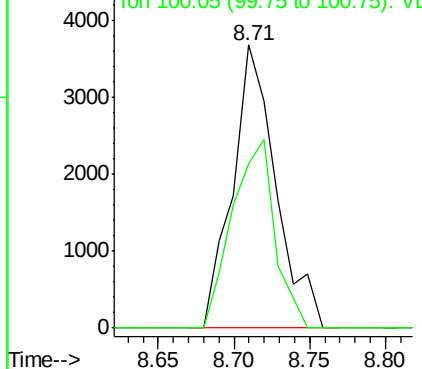
#50
Toluene-d8
Concen: N.D. ug/l
RT: 8.71 min Scan# 862
Delta R.T. 0.00 min
Lab File: VD058282.D
Acq: 22 Jun 2018 7:10

Instrument :
MSVOA_D
ClientSampleId :
HC-SOIL-4

Tot Ion: 98 Resp: 7319
Ion Ratio Lower Upper
98 100
100 58.3 53.6 80.4

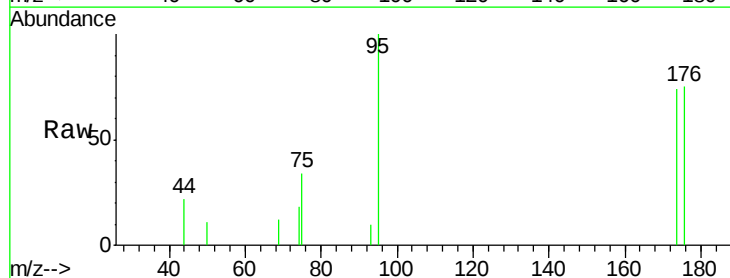


Abundance Ion 98.05 (97.75 to 98.75): VD058198.D (-855) (-)
Ion 100.05 (99.75 to 100.75): VD058198.D (-855) (-)

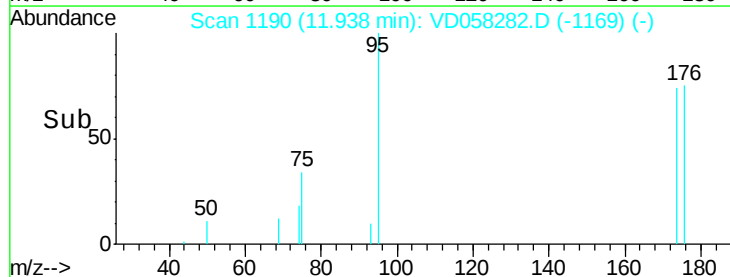
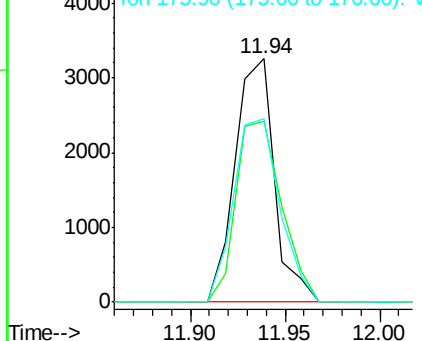


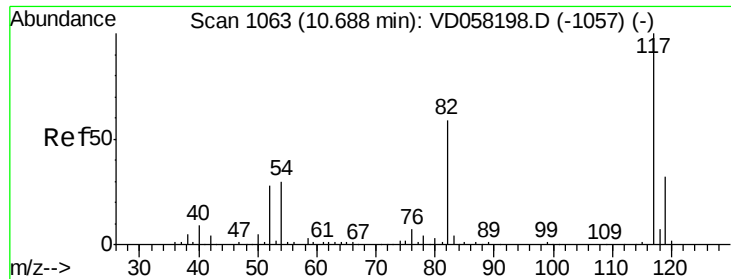
#62
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 11.94 min Scan# 1190
Delta R.T. 0.01 min
Lab File: VD058282.D
Acq: 22 Jun 2018 7:10

Tgt Ion: 95 Resp: 4661
Ion Ratio Lower Upper
95 100
174 74.2 0.0 170.2
176 75.3 0.0 164.6



Abundance Ion 95.00 (94.70 to 95.70): VD058198.D (-1185) (-)
Ion 173.90 (173.60 to 174.60): VD058198.D (-1185) (-)
Ion 175.90 (175.60 to 176.60): VD058198.D (-1185) (-)





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.70 min Scan# 1064

Delta R.T. 0.01 min

Lab File: VD058282.D

Acq: 22 Jun 2018 7:10

Instrument :

MSVOA_D

ClientSampleId :

HC-SOIL-4

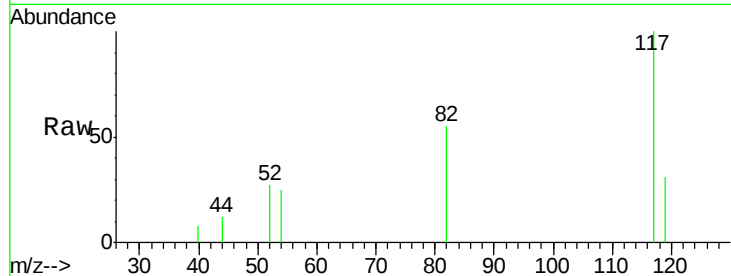
Tot Ion:117 Resp: 8891

Ion Ratio Lower Upper

117 100

82 55.5 47.0 70.6

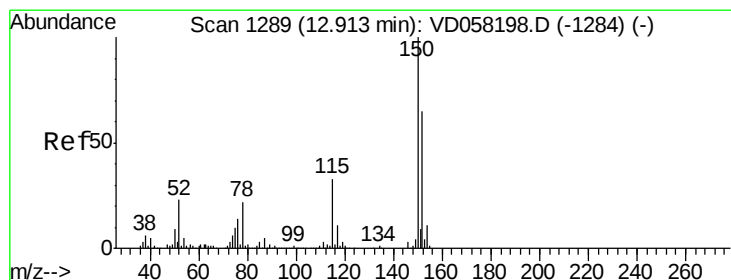
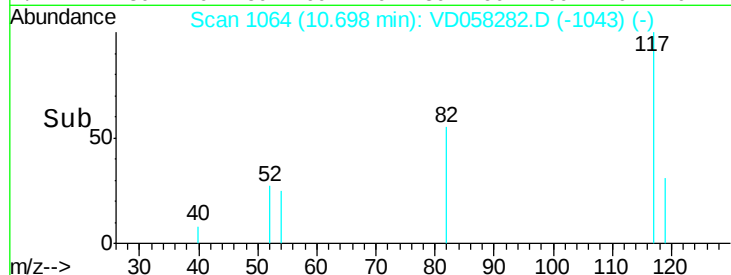
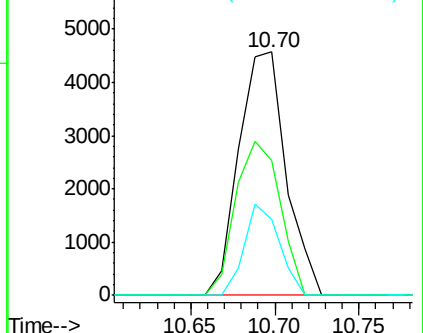
119 31.1 25.3 37.9



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: 12.90 min Scan# 1288

Delta R.T. -0.01 min

Lab File: VD058282.D

Acq: 22 Jun 2018 7:10

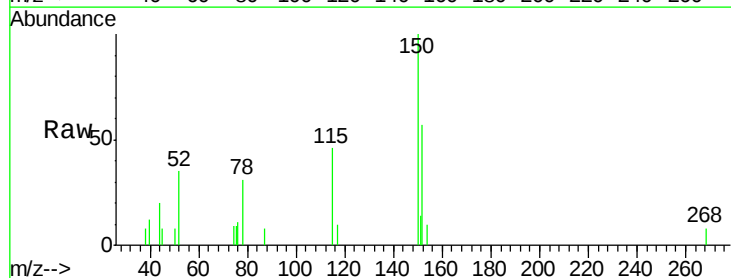
Tgt Ion:152 Resp: 3643

Ion Ratio Lower Upper

152 100

115 80.6 25.1 75.3#

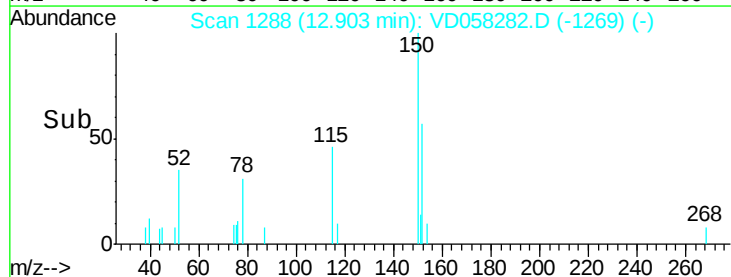
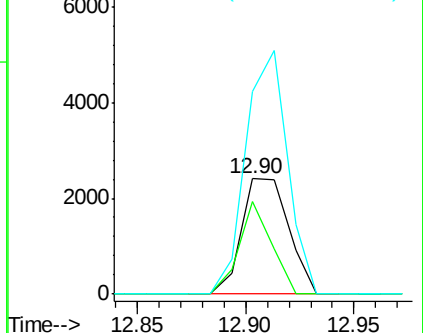
150 175.5 0.0 308.8

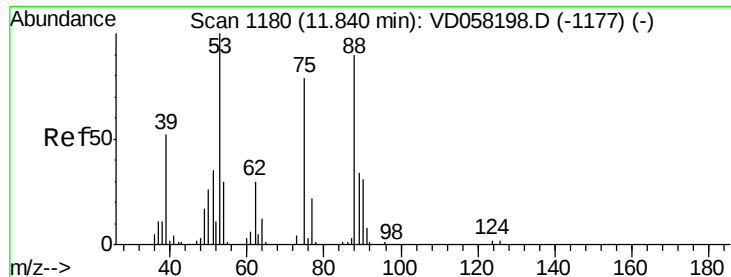


Abundance Ion 151.90 (151.60 to 152.60): V

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: 158.491 ug/l

RT: 11.93 min Scan# 1189

Delta R.T. 0.09 min

Lab File: VD058282.D

Acq: 22 Jun 2018 7:10

Instrument :

MSVOA_D

ClientSampleId :

HC-SOIL-4

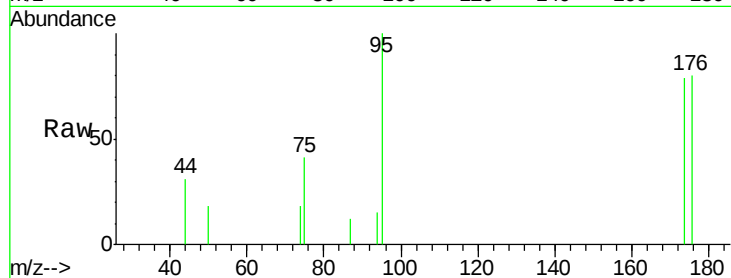
Tot Ion: 75 Resp: 2056

Ion Ratio Lower Upper

75 100

53 0.0 100.8 151.2#

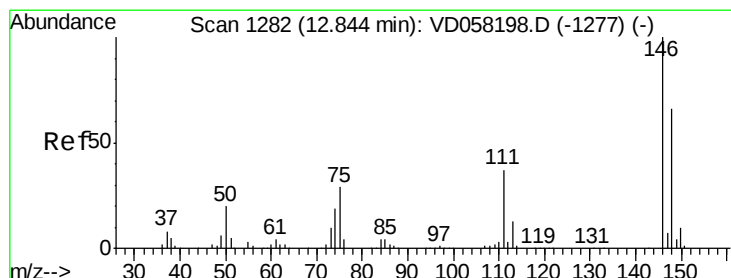
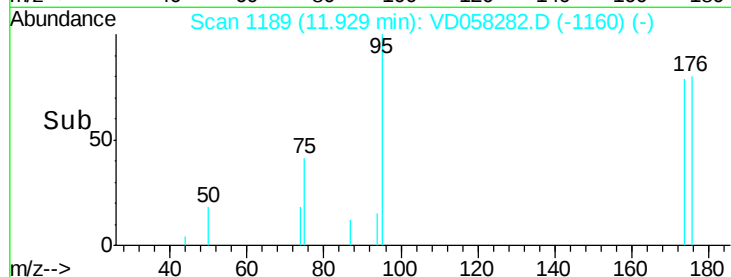
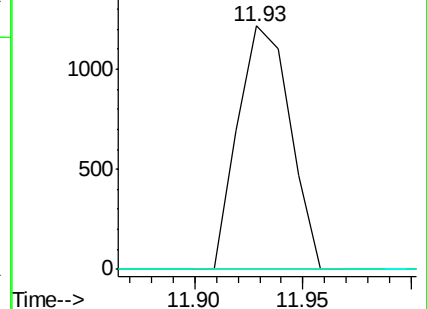
89 0.0 34.6 52.0#



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



#87

1,3-Dichlorobenzene

Concen: 1.622 ug/l

RT: 12.84 min Scan# 1282

Delta R.T. 0.00 min

Lab File: VD058282.D

Acq: 22 Jun 2018 7:10

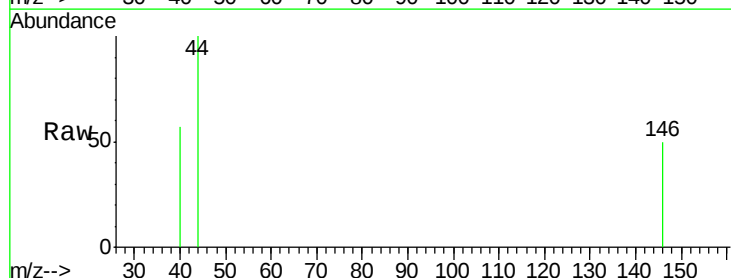
Tgt Ion: 146 Resp: 184

Ion Ratio Lower Upper

146 100

111 0.0 18.4 55.0#

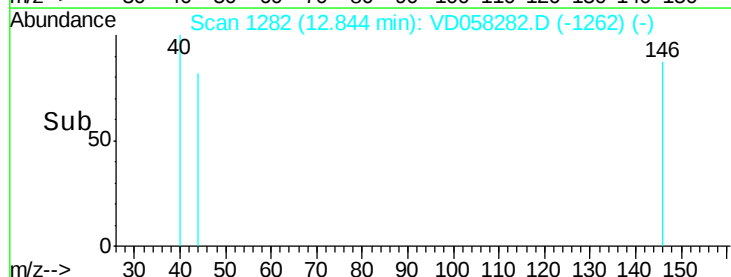
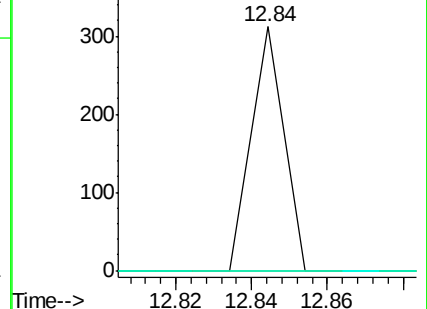
148 0.0 32.8 98.4#

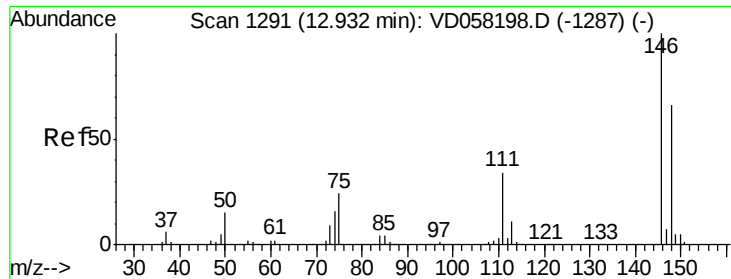


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V





#88

1,4-Dichlorobenzene

Concen: 1.661 ug/l

RT: 12.84 min Scan# 1282

Delta R.T. -0.09 min

Lab File: VD058282.D

Acq: 22 Jun 2018 7:10

Instrument :

MSVOA_D

ClientSampleId :

HC-SOIL-4

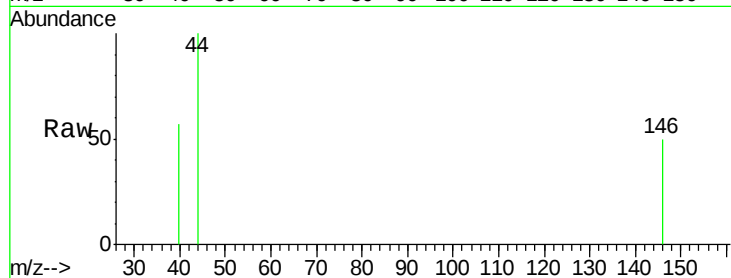
Tot Ion:146 Resp: 184

Ion Ratio Lower Upper

146 100

111 0.0 17.2 51.5#

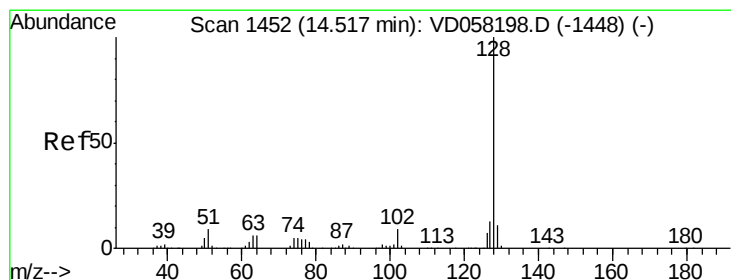
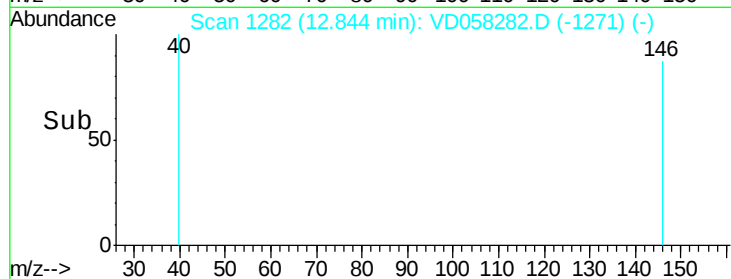
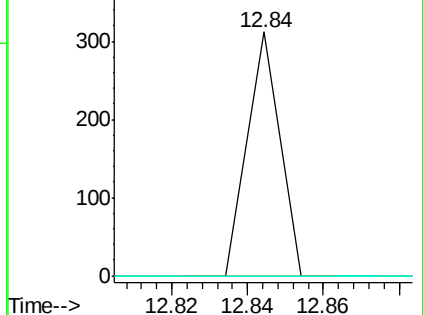
148 0.0 33.1 99.3#



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#95

Naphthalene

Concen: 2.122 ug/l

RT: 14.52 min Scan# 1452

Delta R.T. 0.00 min

Lab File: VD058282.D

Acq: 22 Jun 2018 7:10

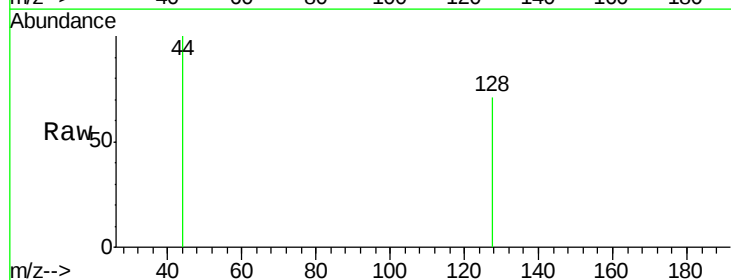
Tgt Ion:128 Resp: 258

Ion Ratio Lower Upper

128 100

127 100.0 10.0 15.0#

129 0.0 8.7 13.1#



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

