

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD030819\
 Data File : VD060985.D
 Acq On : 8 Mar 2019 15:52
 Operator : VA/AP
 Sample : K1780-01
 Misc : 5.05g/5ml/MSVOA D/SOIL
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 SOIL-A

Quant Time: Mar 08 22:06:06 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D030719S.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 08 02:35:39 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.04	168	620239	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.21	114	1187208	50.00	ug/l	0.00
63) Chlorobenzene-d5	12.37	117	1075561	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.51	152	563576	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.45	65	321043	62.18	ug/l	0.00
Spiked Amount 50.000			Recovery	=	124.36%	
35) Dibromofluoromethane	6.92	113	486575	55.23	ug/l	0.00
Spiked Amount 50.000			Recovery	=	110.46%	
50) Toluene-d8	10.41	98	1166759	52.73	ug/l	0.00
Spiked Amount 50.000			Recovery	=	105.46%	
62) 4-Bromofluorobenzene	13.55	95	500074	58.25	ug/l	0.00
Spiked Amount 50.000			Recovery	=	116.50%	

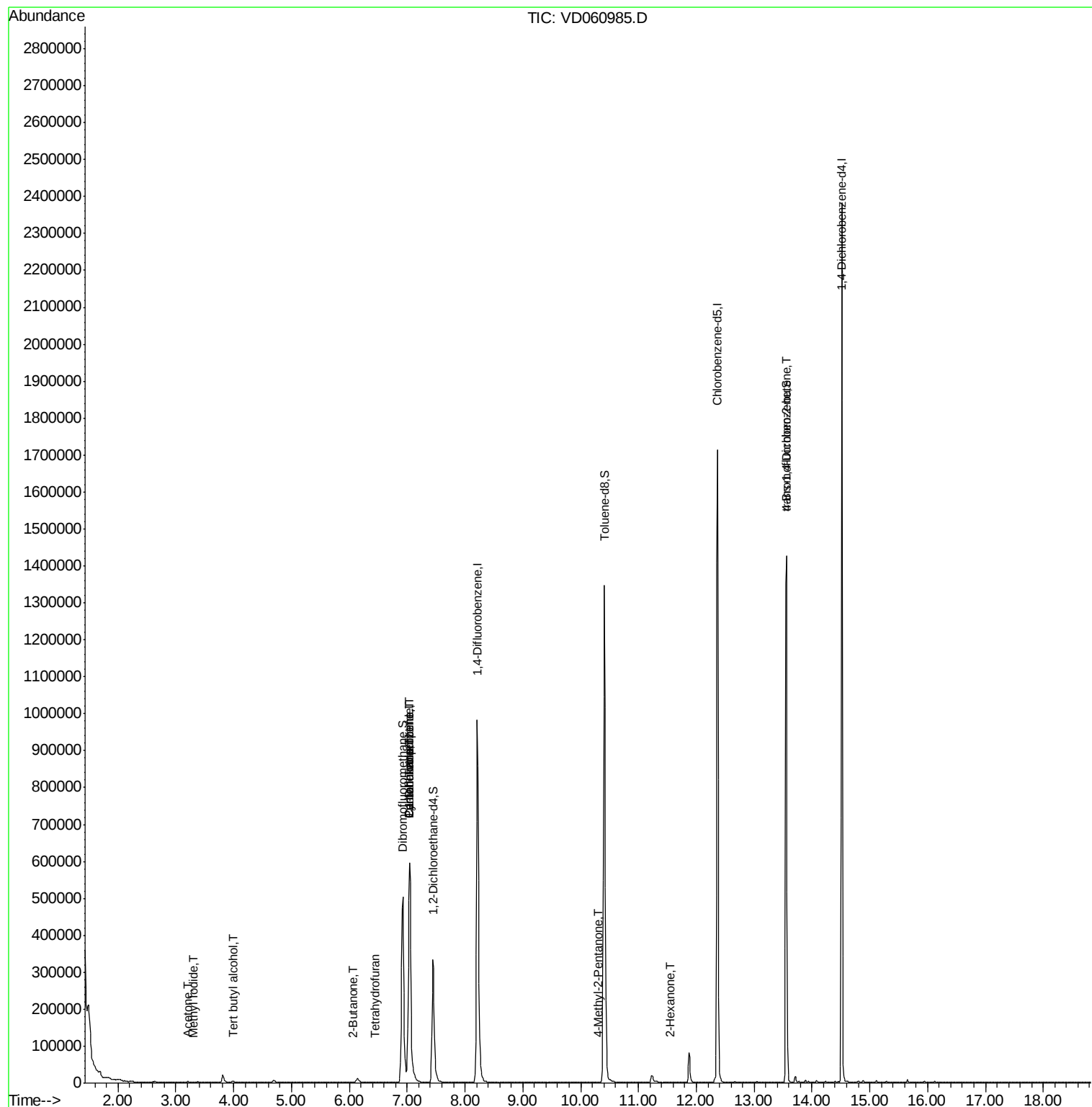
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.16	94	215	Below Cal	#	8
10) Methyl Iodide	3.31	142	185	2.950	ug/l #	39
11) Tert butyl alcohol	4.00	59	1729	5.261	ug/l #	75
16) Acetone	3.21	43	3063	2.075	ug/l #	87
20) Methylene Chloride	3.81	84	13594	Below Cal		99
25) 2-Butanone	6.06	43	770	0.460	ug/l #	55
29) Tetrahydrofuran	6.45	42	435	0.478	ug/l #	33
31) Cyclohexane	7.04	56	10165	1.113	ug/l #	1
36) 1,1-Dichloropropene	7.04	75	46883	4.581	ug/l #	45
38) Carbon Tetrachloride	7.04	117	59605	5.288	ug/l #	15
51) 4-Methyl-2-Pentanone	10.30	43	2229	0.547	ug/l #	37
59) 2-Hexanone	11.53	43	1131	0.379	ug/l	81
81) trans-1,4-Dichloro-2-buten	13.55	75	181319	75.852	ug/l #	17

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

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_D\METHOD\82D030719S.M
Quant Title : SW846 8260
QLast Update : Fri Mar 08 02:35:39 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.04 min Scan# 571

Delta R.T. -0.00 min

Lab File: VD060985.D

Acq: 8 Mar 2019 15:52

Instrument :

MSVOA_D

ClientSampleId :

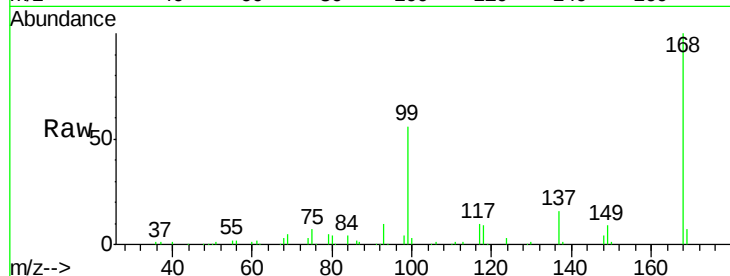
SOIL-A

Tot Ion:168 Resp: 620239

Ion Ratio Lower Upper

168 100

99 56.4 47.3 70.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

7.04

250000

200000

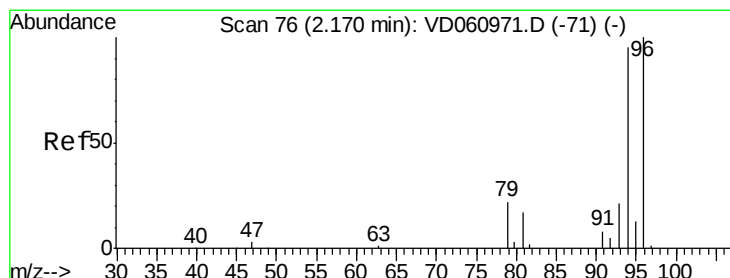
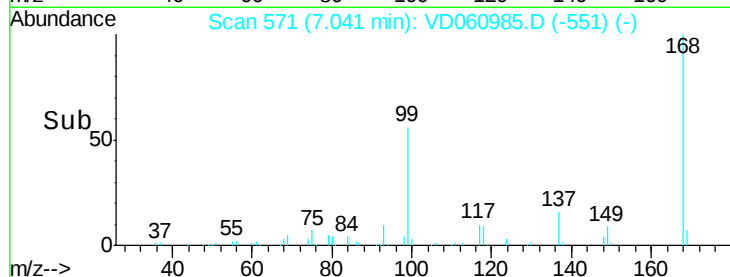
150000

100000

50000

0

Time--> 6.90 7.00 7.10 7.20



#5

Bromomethane

Concen: Below Cal

RT: 2.16 min Scan# 75

Delta R.T. -0.01 min

Lab File: VD060985.D

Acq: 8 Mar 2019 15:52

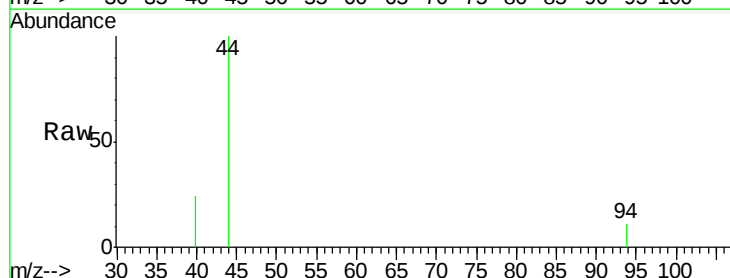
Tgt Ion: 94 Resp: 215

Ion Ratio Lower Upper

94 100

96 0.0 84.0 126.0#

93 0.0 17.3 25.9#



Abundance Ion 94.00 (93.70 to 94.70): VDC

Ion 96.00 (95.70 to 96.70): VDC

Ion 93.00 (92.70 to 93.70): VDC

2.16

500

400

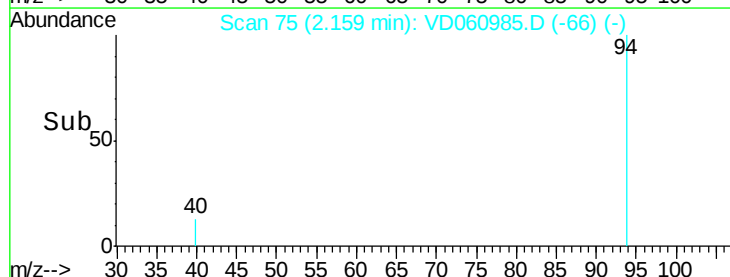
300

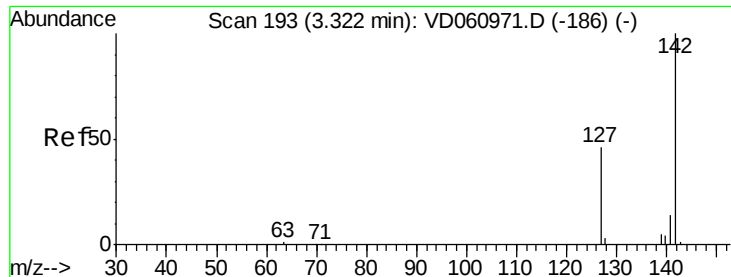
200

100

0

Time--> 2.12 2.14 2.16 2.18

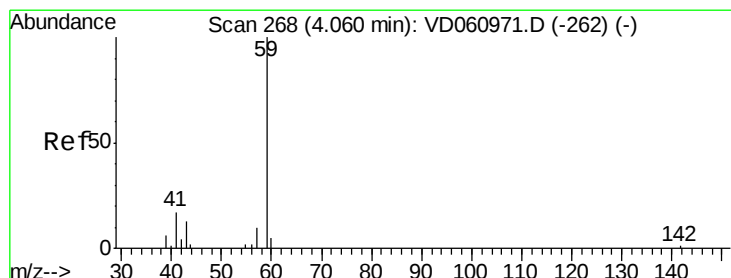
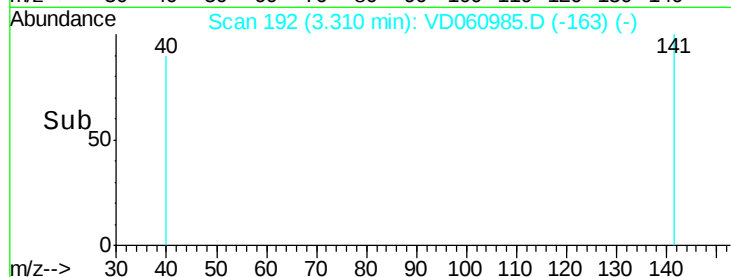
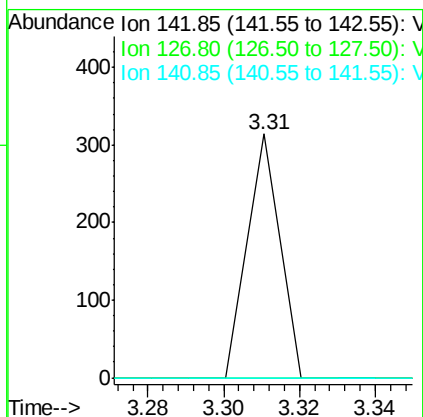
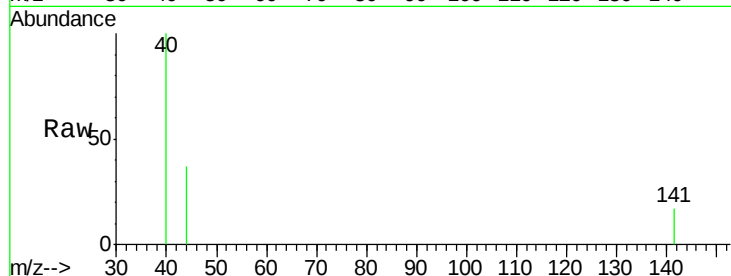




#10
Methyl Iodide
Concen: 2.950 ug/l
RT: 3.31 min Scan# 192
Delta R.T. -0.01 min
Lab File: VD060985.D
Acq: 8 Mar 2019 15:52

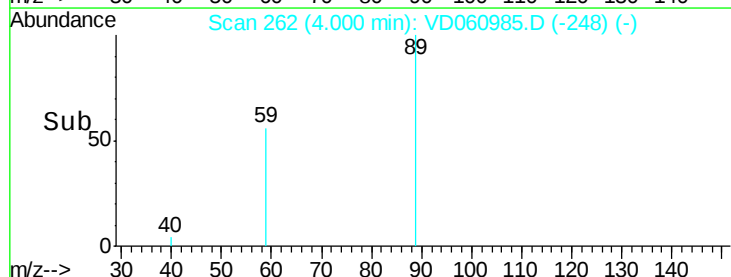
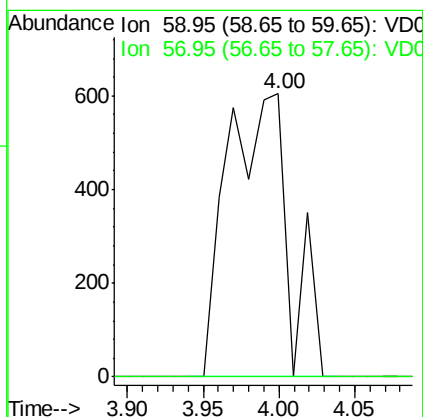
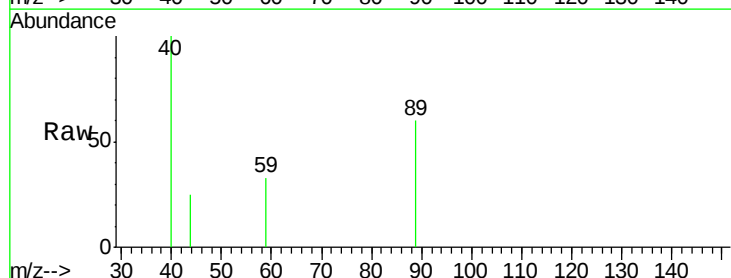
Instrument :
MSVOA_D
ClientSampleId :
SOIL-A

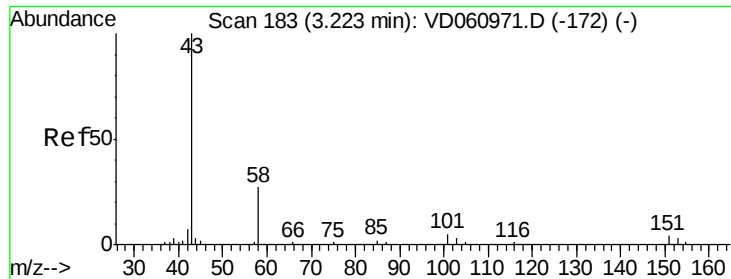
Tot Ion:142 Resp: 185
Ion Ratio Lower Upper
142 100
127 0.0 36.8 55.2#
141 0.0 11.2 16.8#



#11
Tert butyl alcohol
Concen: 5.261 ug/l
RT: 4.00 min Scan# 262
Delta R.T. -0.06 min
Lab File: VD060985.D
Acq: 8 Mar 2019 15:52

Tgt Ion: 59 Resp: 1729
Ion Ratio Lower Upper
59 100
57 0.0 7.1 10.7#





#16

Acetone

Concen: 2.075 ug/l

RT: 3.21 min Scan# 182

Delta R.T. -0.01 min

Lab File: VD060985.D

Acq: 8 Mar 2019 15:52

Instrument :

MSVOA_D

ClientSampleId :

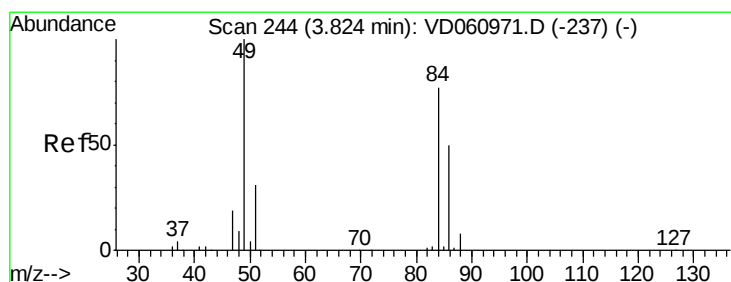
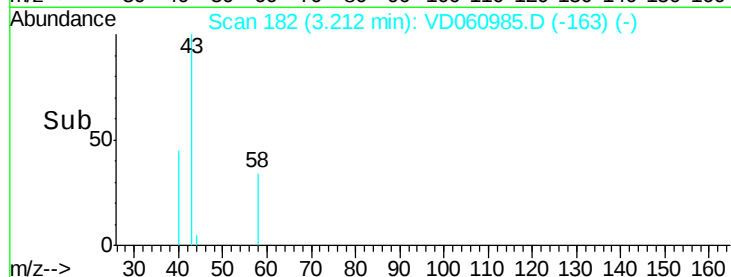
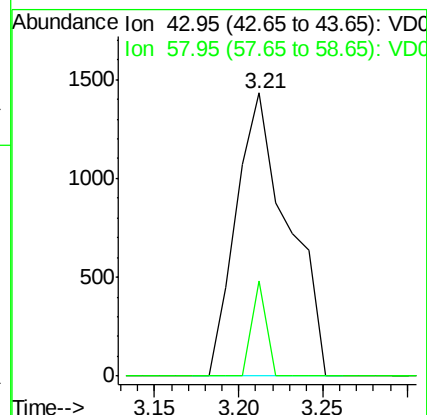
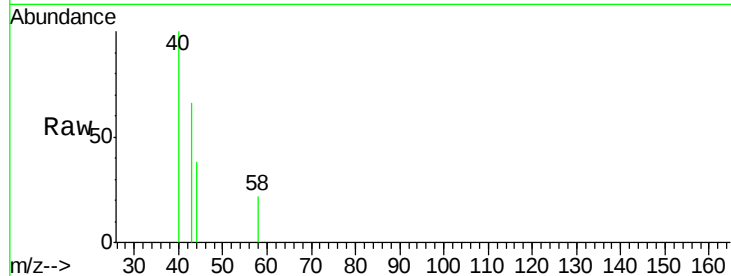
SOIL-A

Tot Ion: 43 Resp: 3063

Ion Ratio Lower Upper

43 100

58 33.8 21.6 32.4#



#20

Methylene Chloride

Concen: Below Cal

RT: 3.81 min Scan# 243

Delta R.T. -0.01 min

Lab File: VD060985.D

Acq: 8 Mar 2019 15:52

Tgt Ion: 84 Resp: 13594

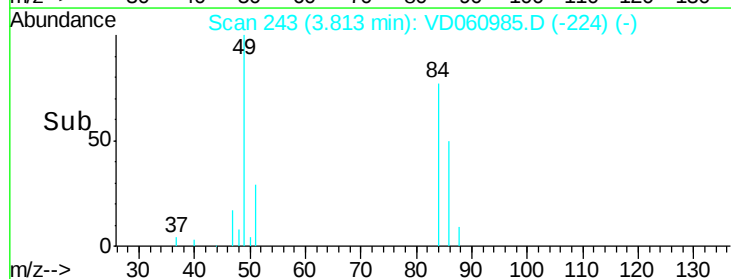
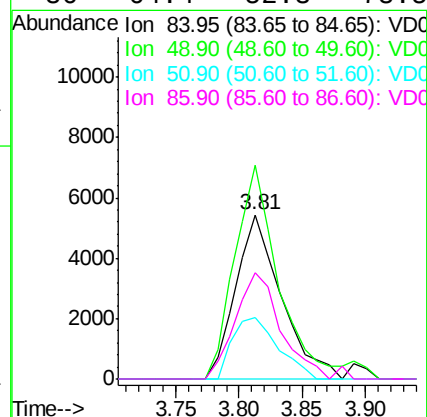
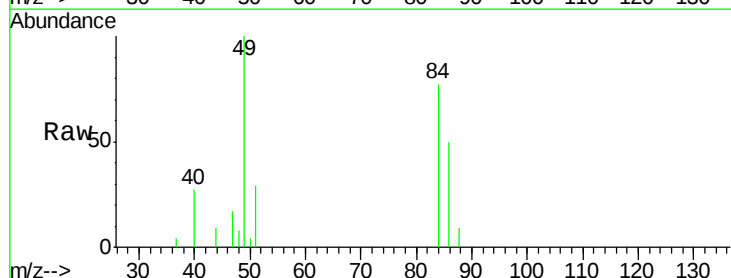
Ion Ratio Lower Upper

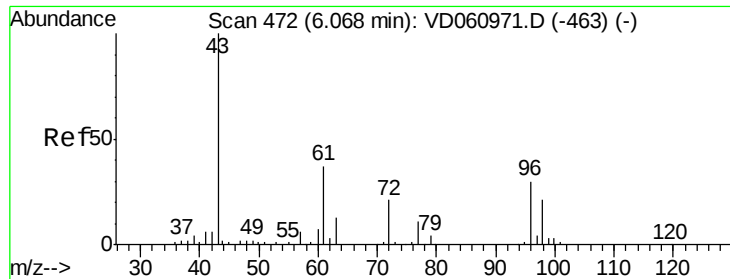
84 100

49 130.0 104.2 156.2

51 37.5 32.3 48.5

86 64.4 52.3 78.5





#25

2-Butanone

Concen: 0.460 ug/l

RT: 6.06 min Scan# 471

Delta R.T. -0.01 min

Lab File: VD060985.D

Acq: 8 Mar 2019 15:52

Instrument :

MSVOA_D

ClientSampleID :

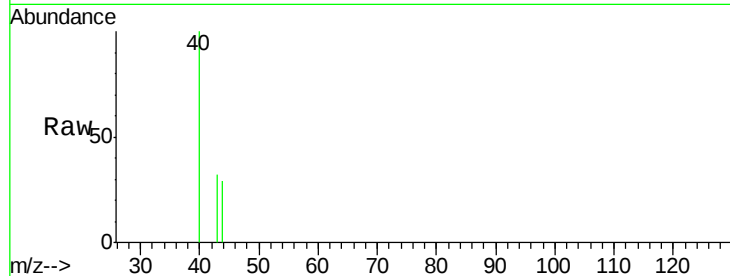
SOIL-A

Tot Ion: 43 Resp: 770

Ion Ratio Lower Upper

43 100

72 0.0 16.7 25.1#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC

6.06

500

400

300

200

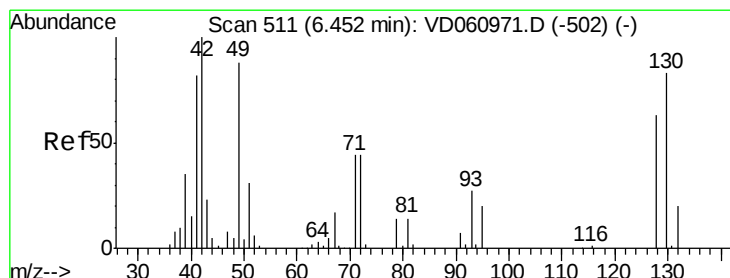
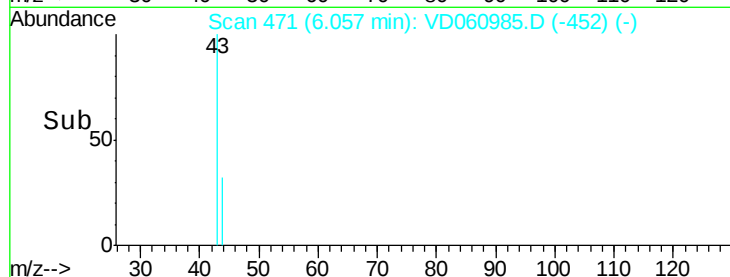
100

0

6.05

6.10

Time-->



#29

Tetrahydrofuran

Concen: 0.478 ug/l

RT: 6.45 min Scan# 511

Delta R.T. -0.00 min

Lab File: VD060985.D

Acq: 8 Mar 2019 15:52

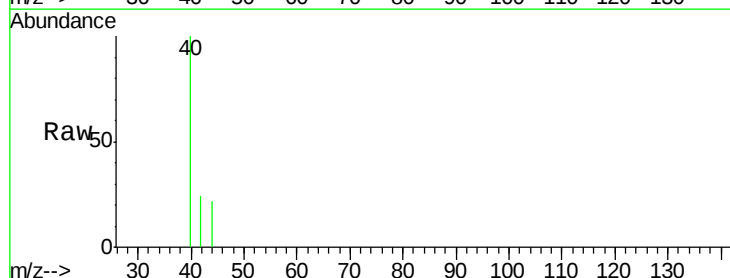
Tgt Ion: 42 Resp: 435

Ion Ratio Lower Upper

42 100

72 0.0 34.5 51.7#

71 0.0 33.8 50.6#



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

6.45

500

400

300

200

100

0

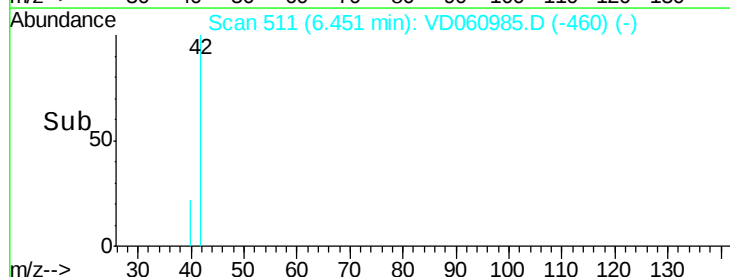
6.42

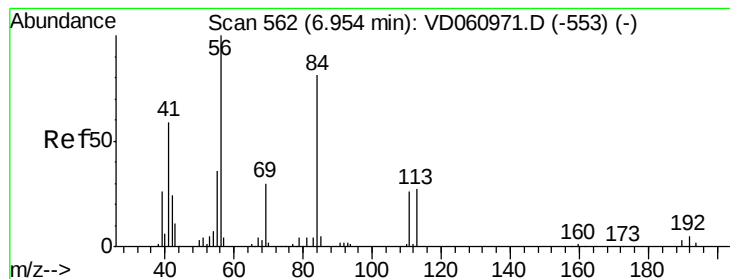
6.44

6.46

6.48

Time-->





#31

Cyclohexane

Concen: 1.113 ug/l

RT: 7.04 min Scan# 571

Delta R.T. 0.09 min

Lab File: VD060985.D

Acq: 8 Mar 2019 15:52

Instrument :

MSVOA_D

ClientSampleId :

SOIL-A

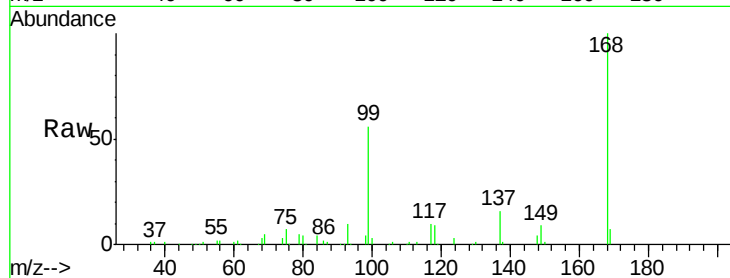
Tot Ion: 56 Resp: 10165

Ion Ratio Lower Upper

56 100

69 281.4 24.0 36.0#

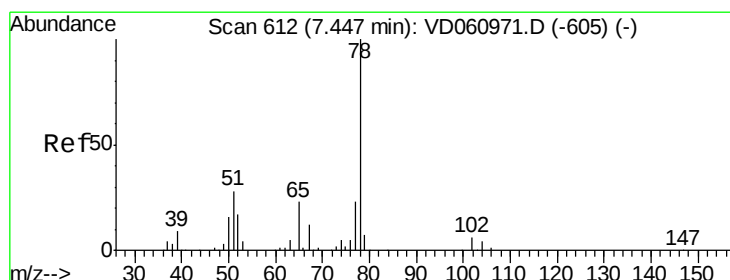
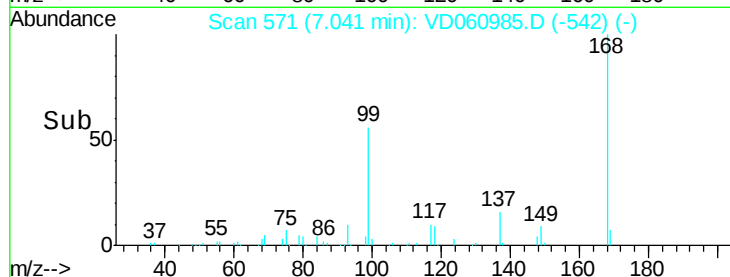
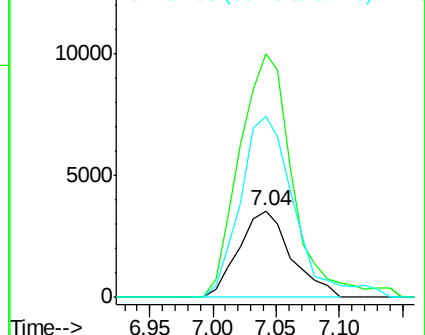
84 209.0 65.8 98.6#



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: 7.45 min Scan# 612

Delta R.T. -0.00 min

Lab File: VD060985.D

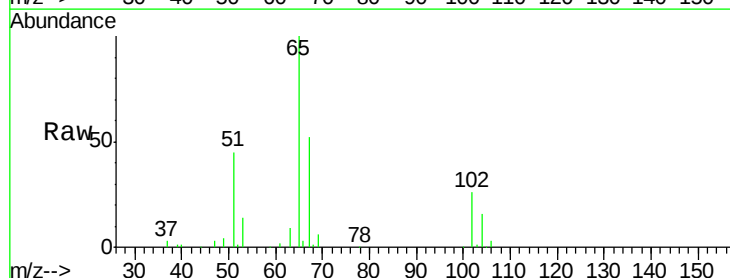
Acq: 8 Mar 2019 15:52

Tgt Ion: 65 Resp: 321043

Ion Ratio Lower Upper

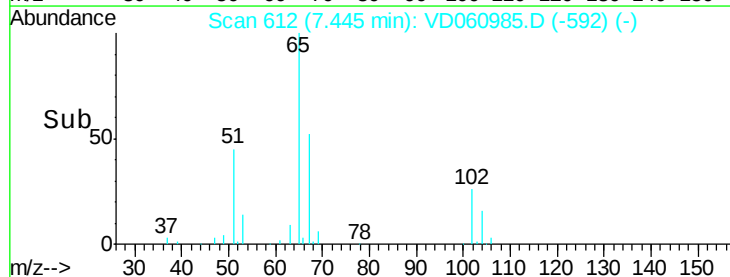
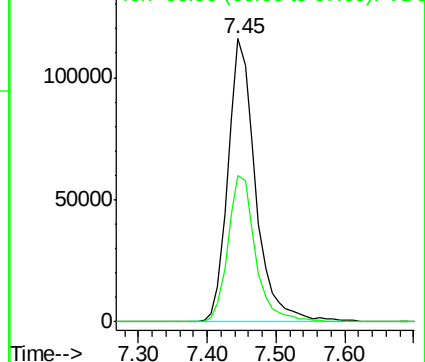
65 100

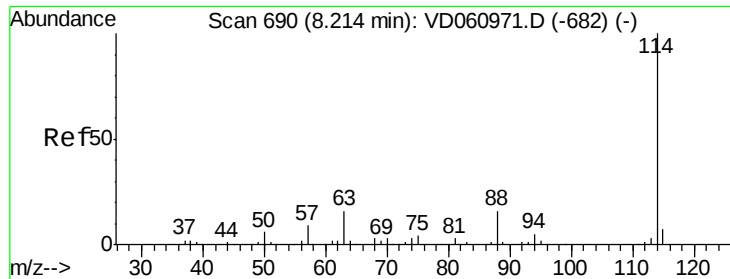
67 51.5 0.0 105.2



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# 690

Delta R.T. -0.00 min

Lab File: VD060985.D

Acq: 8 Mar 2019 15:52

Instrument :

MSVOA_D

ClientSampleId :

SOIL-A

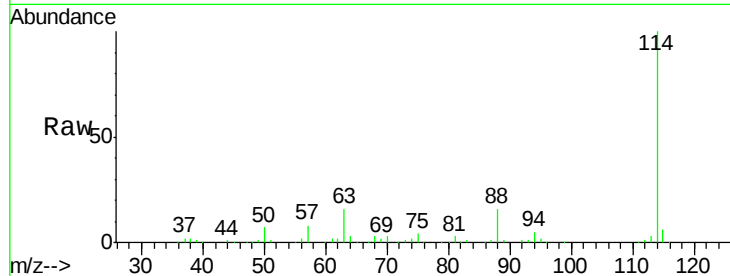
Tot Ion:114 Resp: 1187208

Ion Ratio Lower Upper

114 100

63 16.3 0.0 31.4

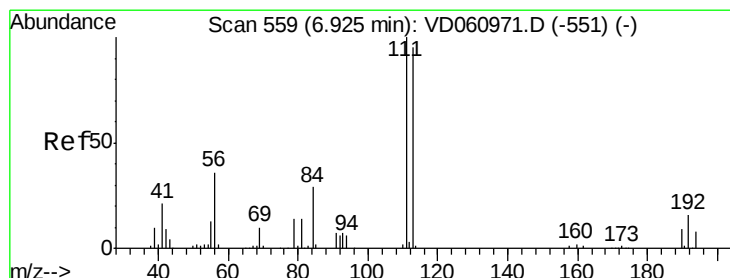
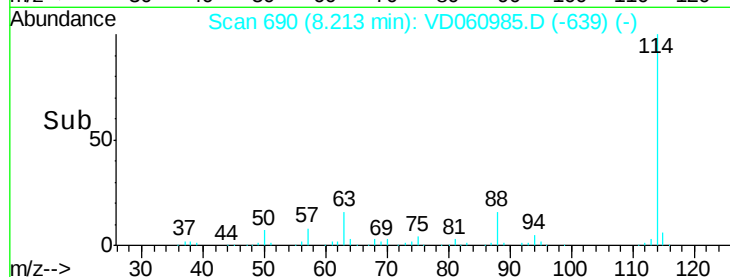
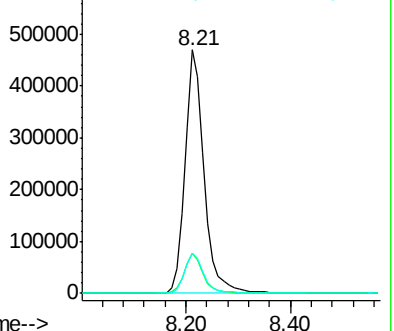
88 16.3 0.0 33.0



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: 6.92 min Scan# 559

Delta R.T. -0.00 min

Lab File: VD060985.D

Acq: 8 Mar 2019 15:52

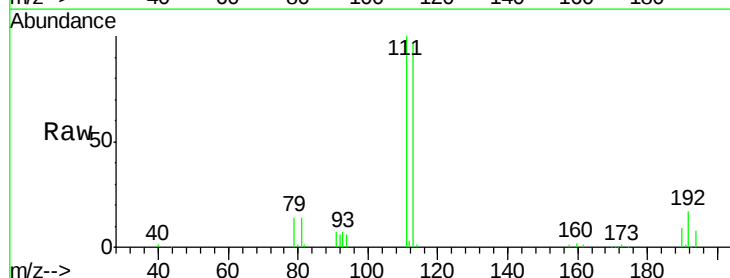
Tgt Ion:113 Resp: 486575

Ion Ratio Lower Upper

113 100

111 103.5 84.2 126.4

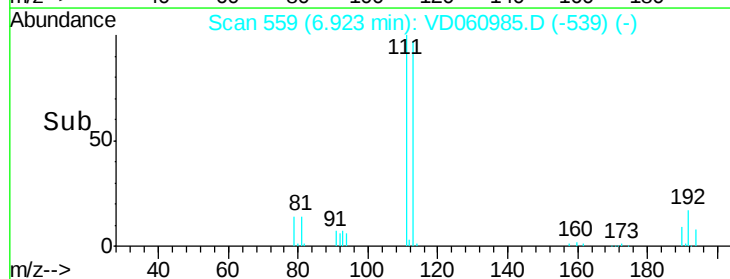
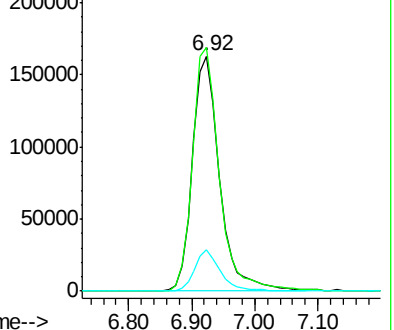
192 17.5 13.1 19.7

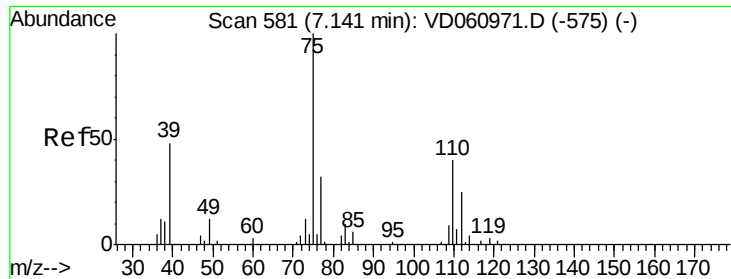


Abundance Ion 112.90 (112.60 to 113.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 191.80 (191.50 to 192.50): V

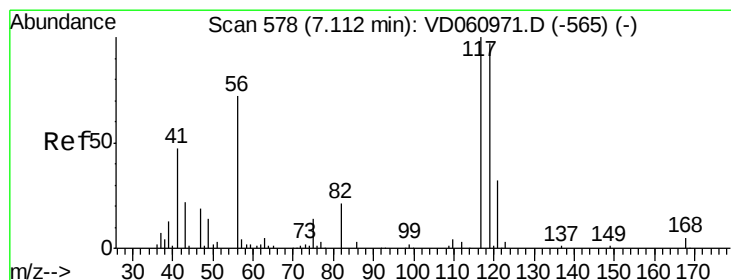
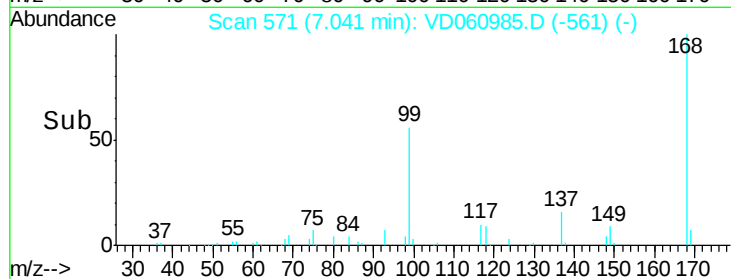
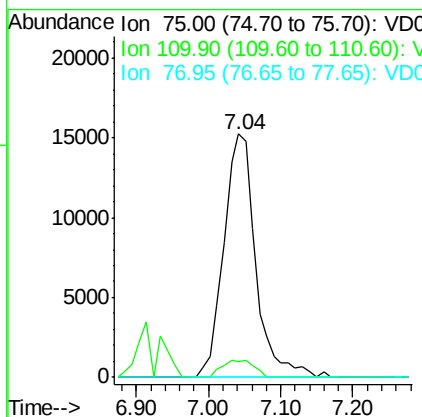
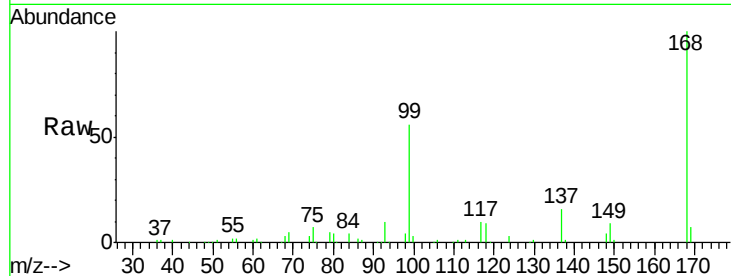




#36
 1,1-Dichloropropene
 Concen: 4.581 ug/l
 RT: 7.04 min Scan# 571
 Delta R.T. -0.10 min
 Lab File: VD060985.D
 Acq: 8 Mar 2019 15:52

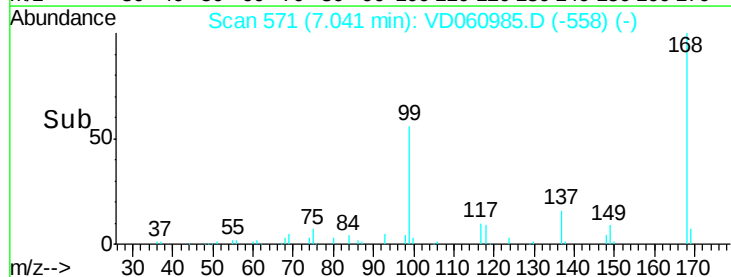
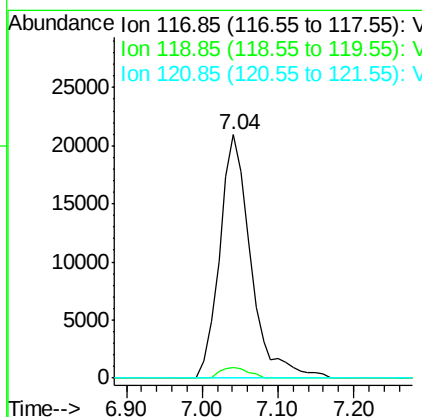
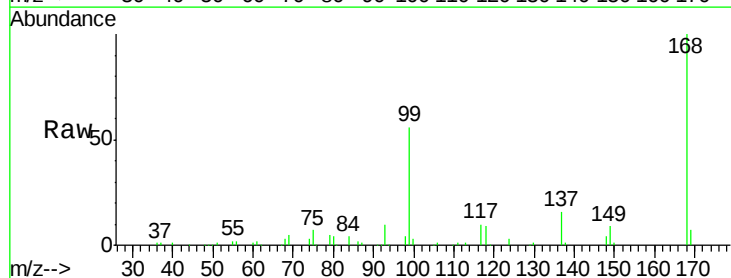
Instrument :
 MSVOA_D
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 SOIL-A

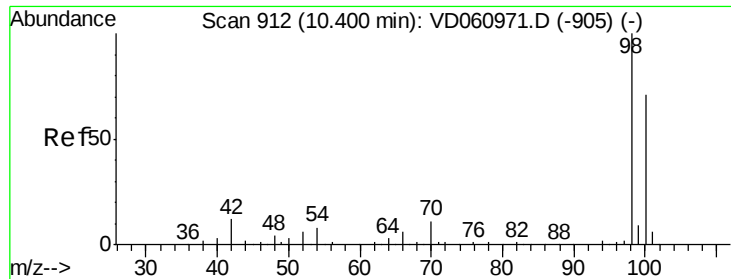
Tot Ion: 75 Resp: 46883
 Ion Ratio Lower Upper
 75 100
 110 6.5 19.7 59.1#
 77 0.0 24.7 37.1#



#38
 Carbon Tetrachloride
 Concen: 5.288 ug/l
 RT: 7.04 min Scan# 571
 Delta R.T. -0.07 min
 Lab File: VD060985.D
 Acq: 8 Mar 2019 15:52

Tgt Ion: 117 Resp: 59605
 Ion Ratio Lower Upper
 117 100
 119 4.5 77.8 116.8#
 121 0.0 25.3 37.9#

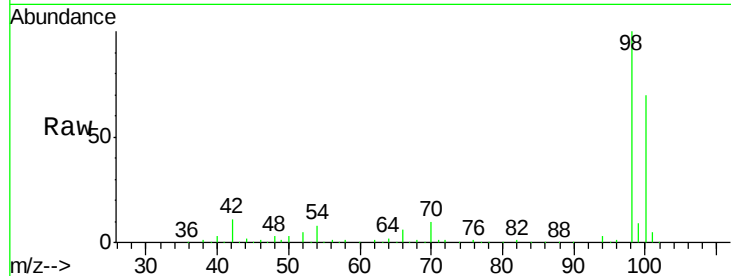




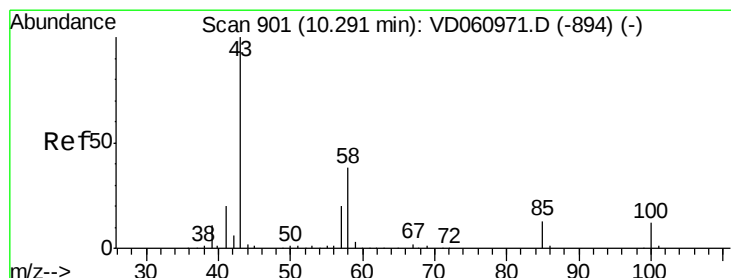
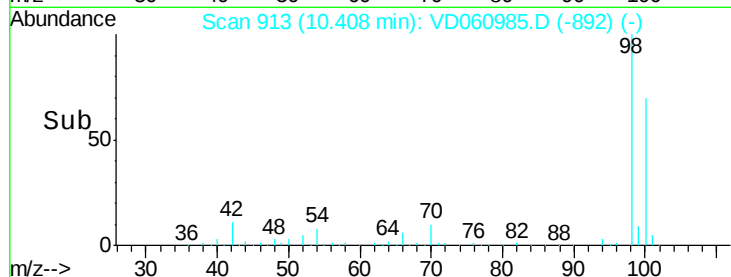
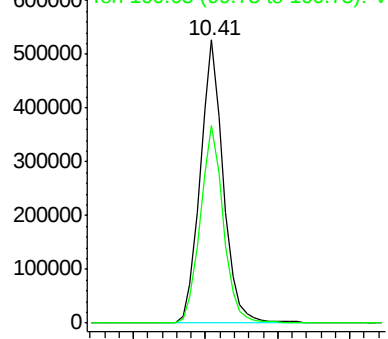
#50
Toluene-d8
Concen: N.D. ug/l
RT: 10.41 min Scan# 913
Delta R.T. 0.01 min
Lab File: VD060985.D
Acq: 8 Mar 2019 15:52

Instrument :
MSVOA_D
ClientSampleId :
SOIL-A

Tot Ion: 98 Resp: 1166759
Ion Ratio Lower Upper
98 100
100 69.7 57.4 86.2

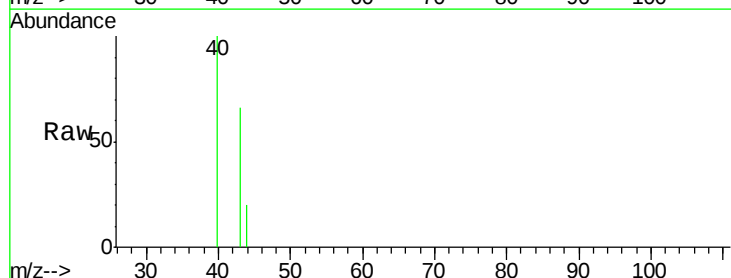


Abundance Ion 98.05 (97.75 to 98.75): VD060971.D (-905) (-)
Ion 100.05 (99.75 to 100.75): VD060971.D (-905) (-)

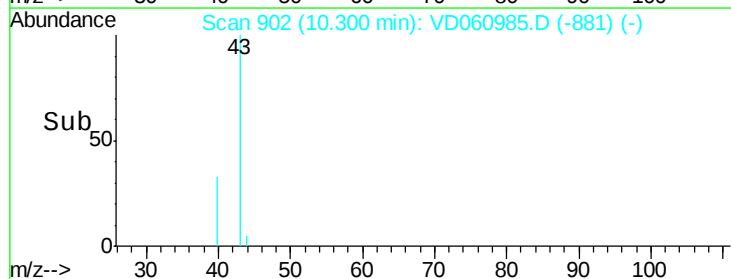
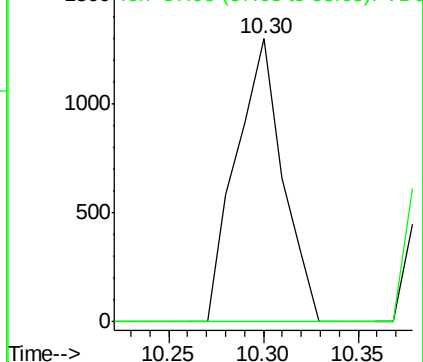


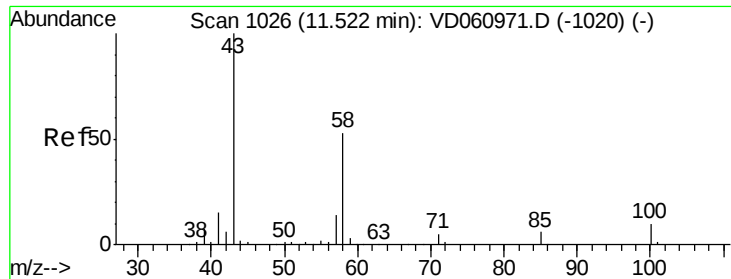
#51
4-Methyl-2-Pentanone
Concen: 0.547 ug/l
RT: 10.30 min Scan# 902
Delta R.T. 0.01 min
Lab File: VD060985.D
Acq: 8 Mar 2019 15:52

Tgt Ion: 43 Resp: 2229
Ion Ratio Lower Upper
43 100
58 0.0 30.2 45.2#



Abundance Ion 42.95 (42.65 to 43.65): VD060971.D (-894) (-)
Ion 57.95 (57.65 to 58.65): VD060971.D (-894) (-)

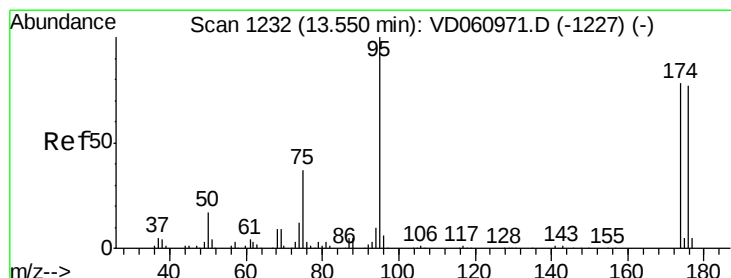
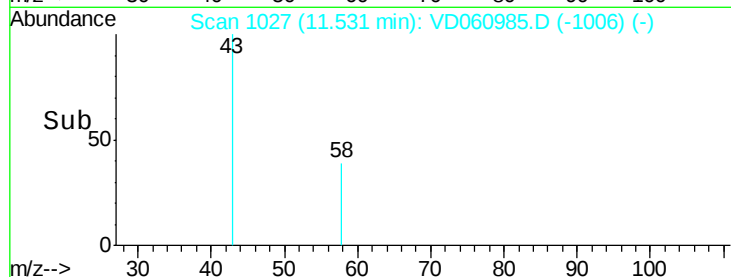
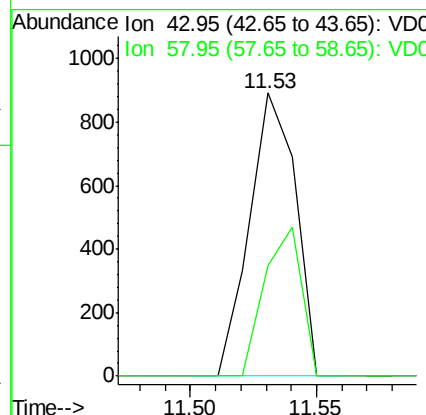
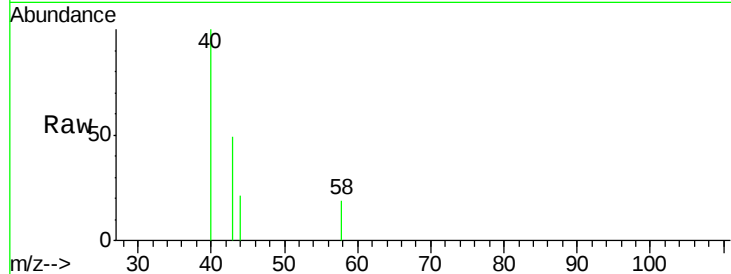




#59
2-Hexanone
Concen: 0.379 ug/l
RT: 11.53 min Scan# 1027
Delta R.T. 0.01 min
Lab File: VD060985.D
Acq: 8 Mar 2019 15:52

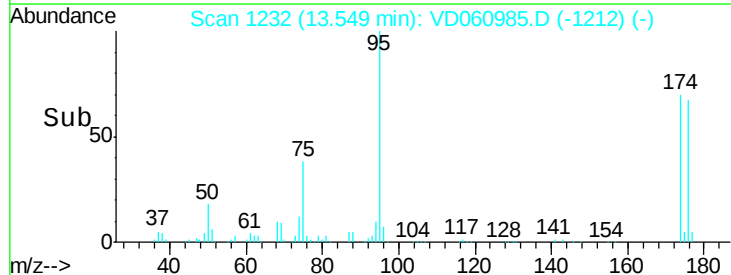
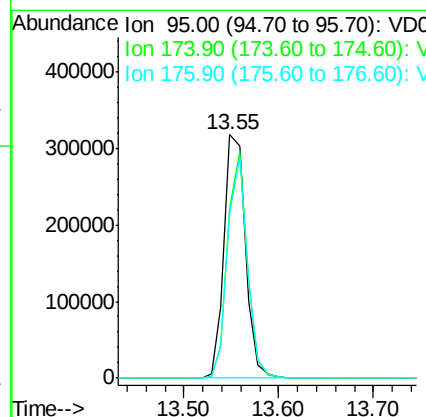
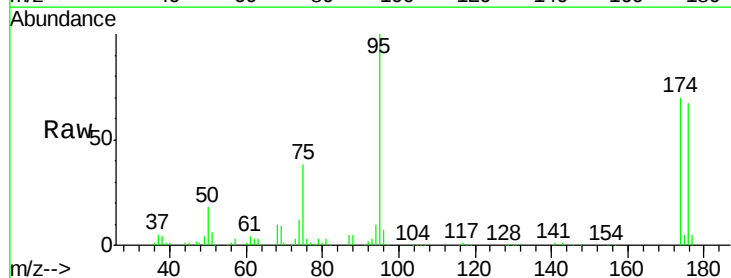
Instrument :
MSVOA_D
ClientSampleId :
SOIL-A

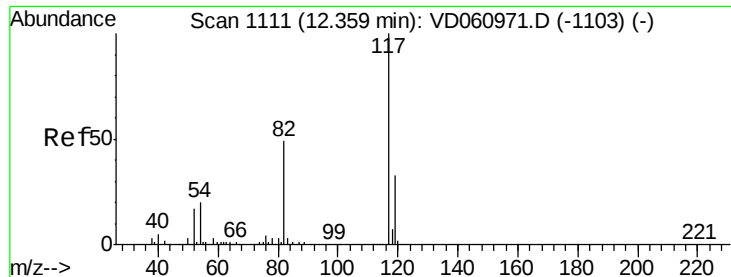
Tot Ion: 43 Resp: 1131
Ion Ratio Lower Upper
43 100
58 39.2 26.5 79.5



#62
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 13.55 min Scan# 1232
Delta R.T. -0.00 min
Lab File: VD060985.D
Acq: 8 Mar 2019 15:52

Tgt Ion: 95 Resp: 500074
Ion Ratio Lower Upper
95 100
174 69.8 0.0 155.6
176 67.3 0.0 153.8

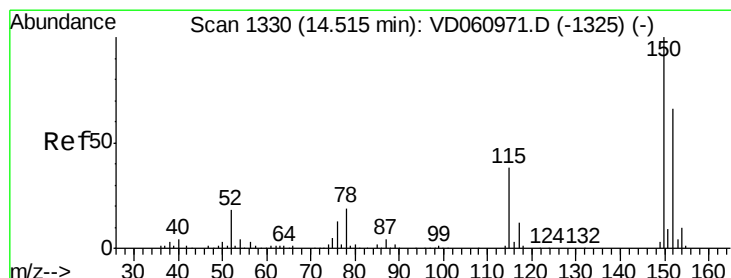
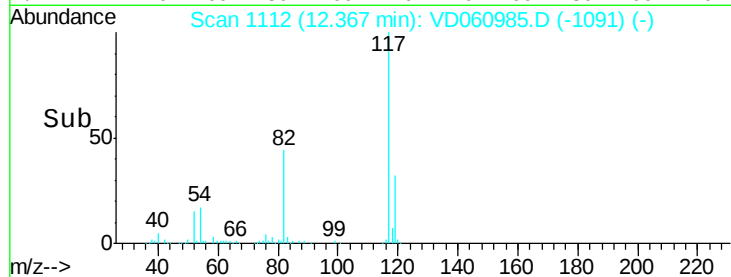
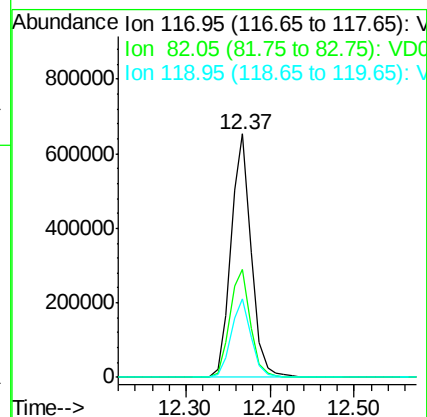
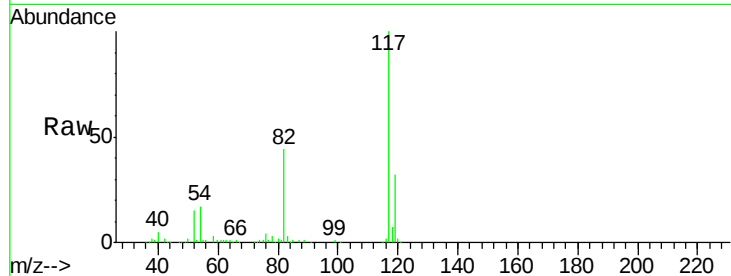




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.37 min Scan# 1112
Delta R.T. 0.01 min
Lab File: VD060985.D
Acq: 8 Mar 2019 15:52

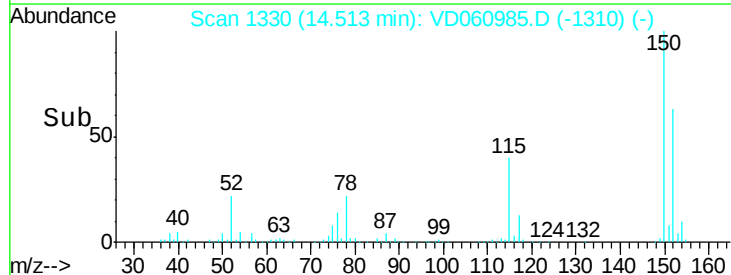
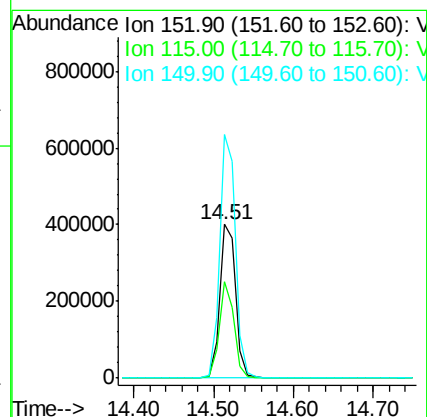
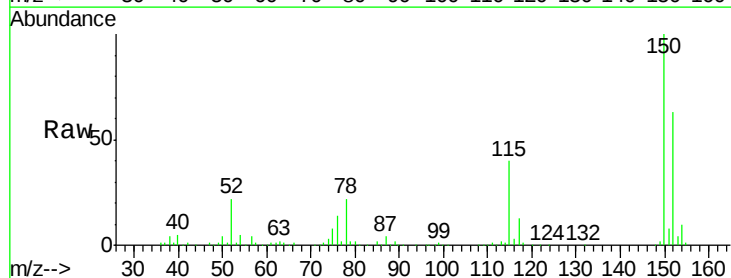
Instrument :
MSVOA_D
ClientSampleId :
SOIL-A

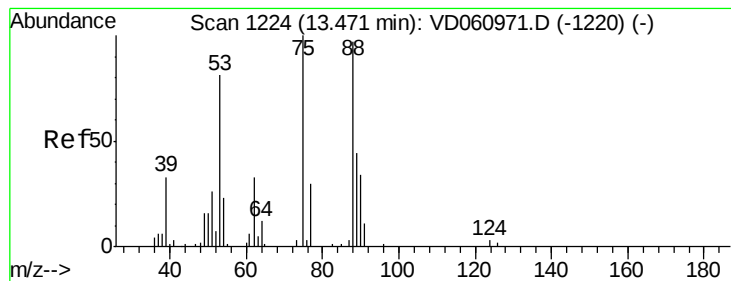
Tot Ion:117 Resp: 1075561
Ion Ratio Lower Upper
117 100
82 44.2 38.9 58.3
119 32.3 26.6 39.8



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.51 min Scan# 1330
Delta R.T. -0.00 min
Lab File: VD060985.D
Acq: 8 Mar 2019 15:52

Tgt Ion:152 Resp: 563576
Ion Ratio Lower Upper
152 100
115 62.8 28.6 85.9
150 158.3 0.0 310.6





#81

trans-1,4-Dichloro-2-butene

Concen: 75.852 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. 0.08 min

Lab File: VD060985.D

Acq: 8 Mar 2019 15:52

Instrument :

MSVOA_D

ClientSampleId :

SOIL-A

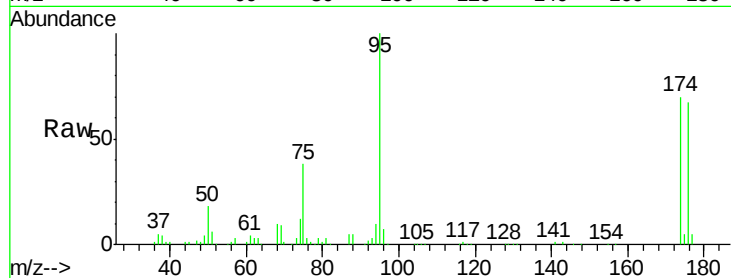
Tot Ion: 75 Resp: 181319

Ion Ratio Lower Upper

75 100

53 0.0 64.4 96.6#

89 0.0 34.8 52.2#



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

