

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD111418\
 Data File : VD060379.D
 Acq On : 14 Nov 2018 15:10
 Operator : JC/SY
 Sample : J5932-01
 Misc : 7.07g/5ml/MSVOA D/SOIL
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 CG-SOIL

Quant Time: Nov 14 16:04:27 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D110618S.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 06 13:56:04 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.38	168	464550	50.00	ug/l	-0.05
34) 1,4-Difluorobenzene	7.41	114	878769	50.00	ug/l	-0.05
63) Chlorobenzene-d5	11.26	117	859981	50.00	ug/l	-0.04
72) 1,4-Dichlorobenzene-d4	13.36	152	461528	50.00	ug/l	-0.03

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.75	65	298460	89.73	ug/l	-0.05
Spiked Amount			Recovery	=	179.46%	
35) Dibromofluoromethane	6.29	113	337911	51.57	ug/l	-0.05
Spiked Amount			Recovery	=	103.14%	
50) Toluene-d8	9.43	98	721426	37.62	ug/l	-0.04
Spiked Amount			Recovery	=	75.24%	
62) 4-Bromofluorobenzene	12.41	95	325819	46.88	ug/l	-0.03
Spiked Amount			Recovery	=	93.76%	

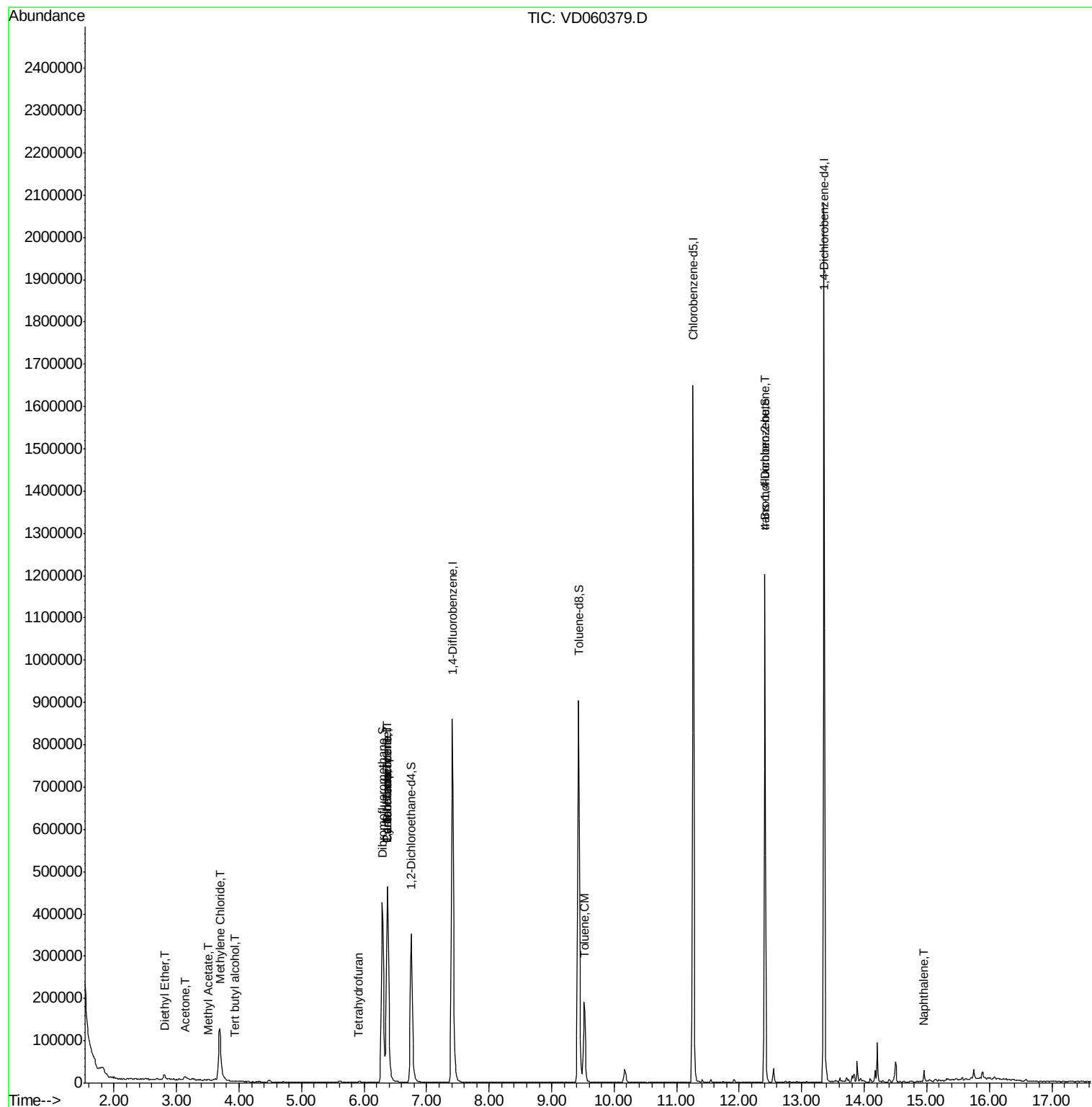
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Diethyl Ether	2.81	74	3224	4.203	ug/l	68
11) Tert butyl alcohol	3.92	59	213	1.559	ug/l #	70
16) Acetone	3.13	43	13662	23.679	ug/l	96
18) Methyl Acetate	3.52	43	3620	2.943	ug/l #	63
20) Methylene Chloride	3.69	84	81399	15.904	ug/l	99
29) Tetrahydrofuran	5.93	42	2170	3.432	ug/l #	58
31) Cyclohexane	6.37	56	9694	1.221	ug/l #	1
36) 1,1-Dichloropropene	6.37	75	33875	3.902	ug/l #	45
38) Carbon Tetrachloride	6.37	117	35399	4.395	ug/l #	15
52) Toluene	9.52	92	99167	7.005	ug/l	96
81) trans-1,4-Dichloro-2-buten	12.41	75	135175	86.000	ug/l #	15
89) n-Butylbenzene	13.61	91	1682	Below Cal	#	1
95) Naphthalene	14.95	128	17715	1.402	ug/l	97

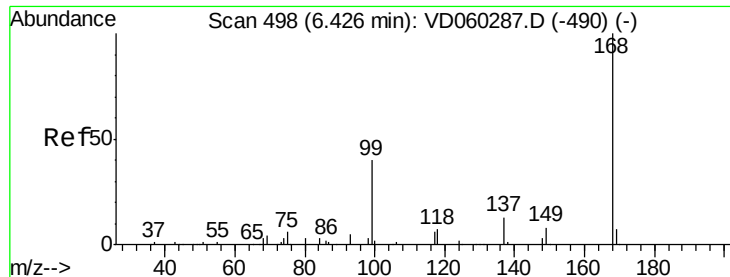
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 6.38 min Scan# 493

Delta R.T. -0.05 min

Lab File: VD060379.D

Acq: 14 Nov 2018 15:10

Instrument :

MSVOA_D

ClientSampleId :

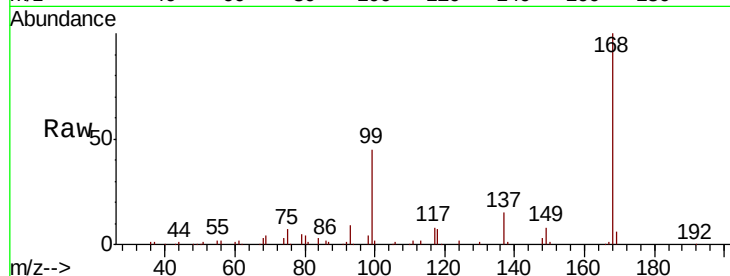
CG-SOIL

Tot Ion:168 Resp: 464550

Ion Ratio Lower Upper

168 100

99 45.1 39.8 59.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

6.38

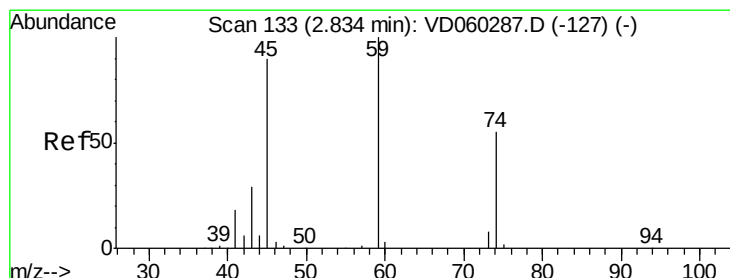
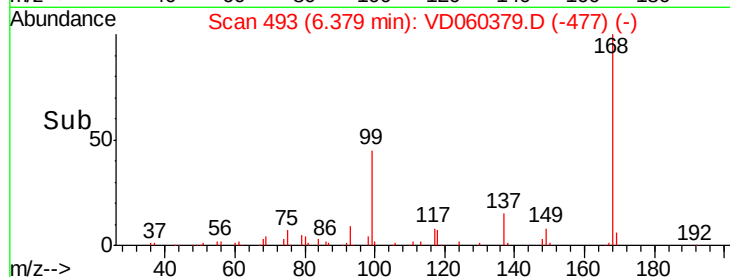
150000

100000

50000

0

Time-->



#8

Diethyl Ether

Concen: 4.203 ug/l

RT: 2.81 min Scan# 130

Delta R.T. -0.03 min

Lab File: VD060379.D

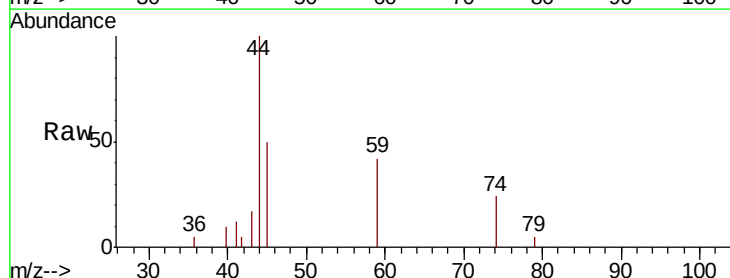
Acq: 14 Nov 2018 15:10

Tgt Ion: 74 Resp: 3224

Ion Ratio Lower Upper

74 100

45 213.5 84.8 254.4



Abundance Ion 74.00 (73.70 to 74.70): VDC

Ion 45.05 (44.75 to 45.75): VDC

4000

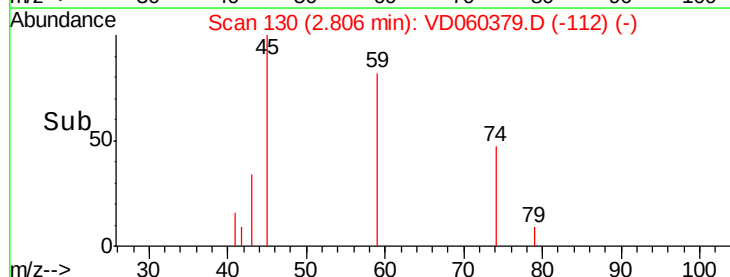
3000

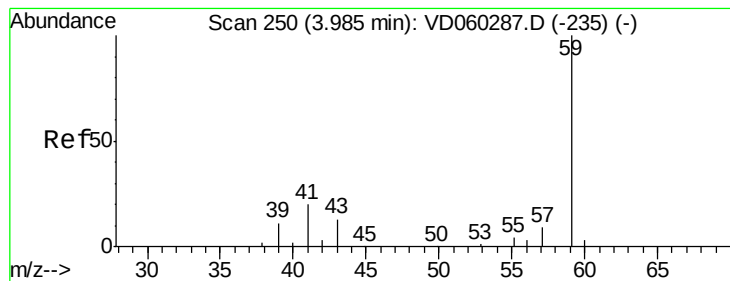
2000

1000

0

Time-->





#11

Tert butyl alcohol

Concen: 1.559 ug/l

RT: 3.92 min Scan# 243

Delta R.T. -0.07 min

Lab File: VD060379.D

Acq: 14 Nov 2018 15:10

Instrument :

MSVOA_D

ClientSampleId :

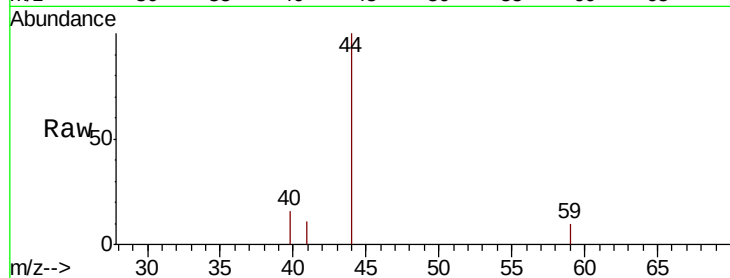
CG-SOIL

Tot Ion: 59 Resp: 213

Ion Ratio Lower Upper

59 100

57 0.0 9.3 13.9#



Abundance Ion 58.95 (58.65 to 59.65): VDC

Ion 56.95 (56.65 to 57.65): VDC

3.92

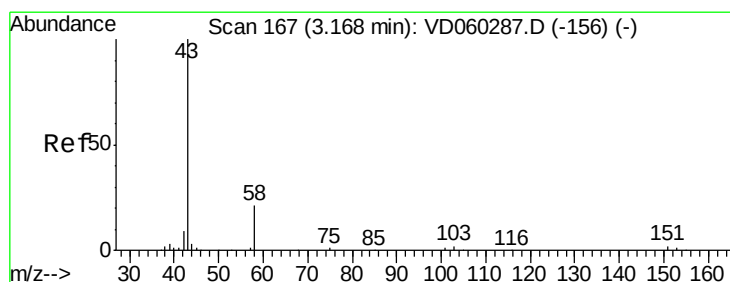
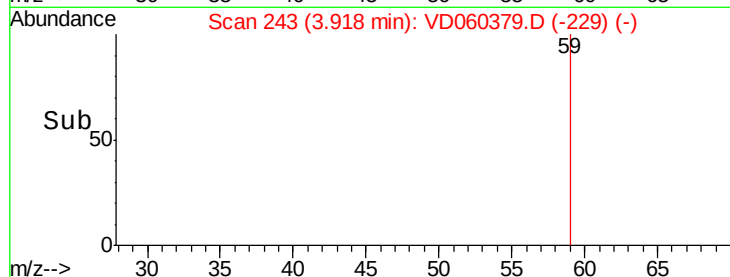
300

200

100

0

Time--> 3.88 3.90 3.92 3.94



#16

Acetone

Concen: 23.679 ug/l

RT: 3.13 min Scan# 163

Delta R.T. -0.04 min

Lab File: VD060379.D

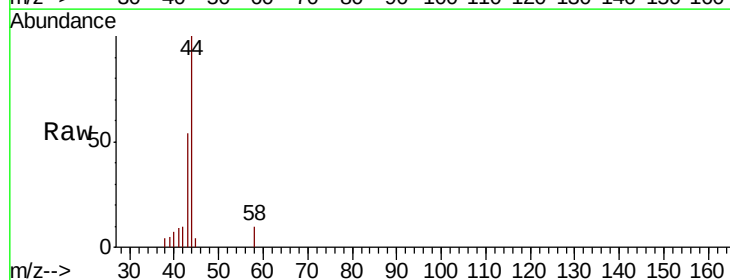
Acq: 14 Nov 2018 15:10

Tgt Ion: 43 Resp: 13662

Ion Ratio Lower Upper

43 100

58 19.1 16.9 25.3



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

3.13

4000

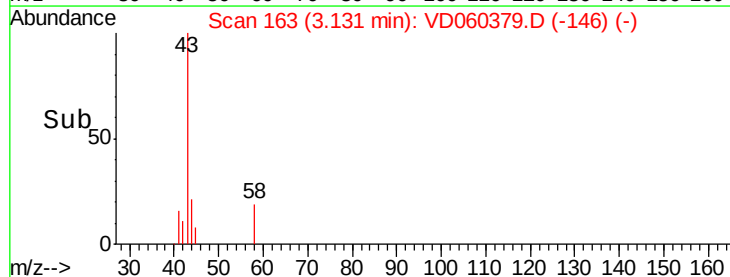
3000

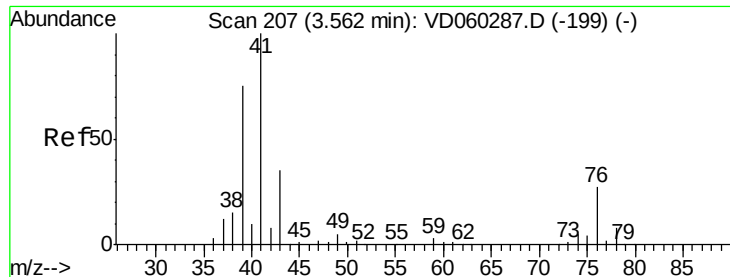
2000

1000

0

Time--> 3.05 3.10 3.15 3.20

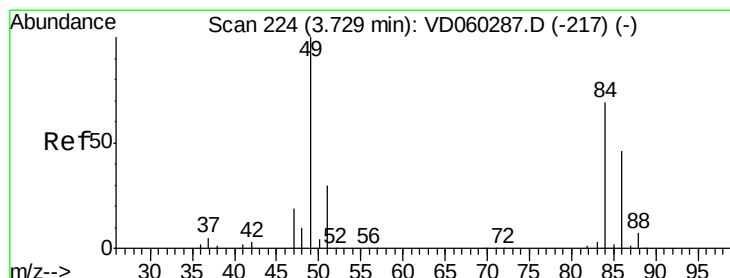
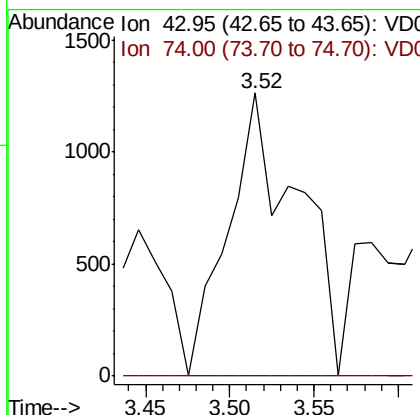
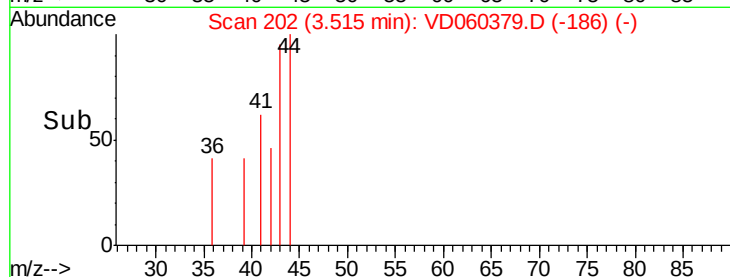
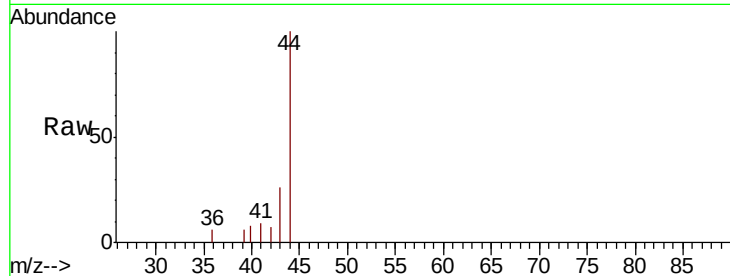




#18
Methyl Acetate
Concen: 2.943 ug/l
RT: 3.52 min Scan# 202
Delta R.T. -0.05 min
Lab File: VD060379.D
Acq: 14 Nov 2018 15:10

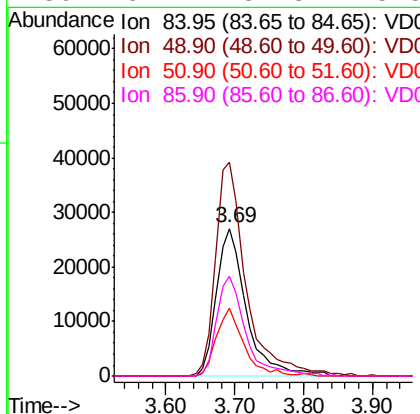
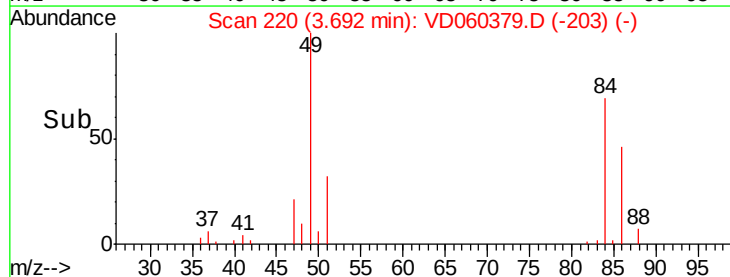
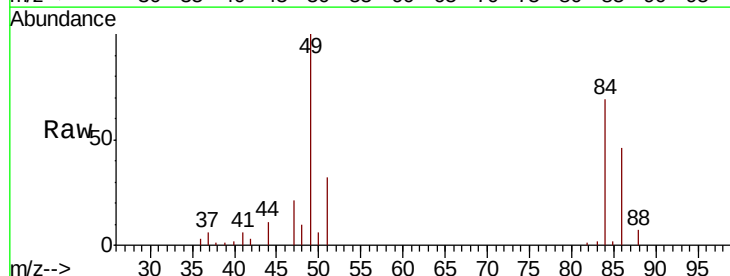
Instrument :
MSVOA_D
ClientSampleID :
CG-SOIL

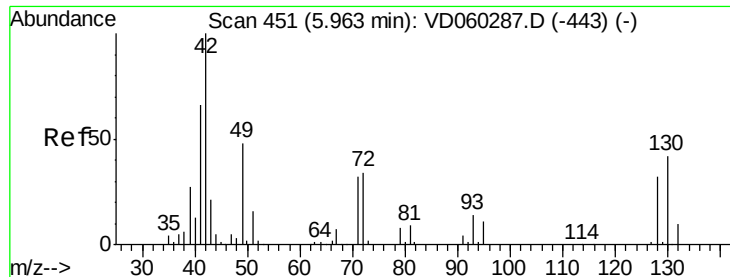
Tot Ion: 43 Resp: 3620
Ion Ratio Lower Upper
43 100
74 0.0 12.4 18.6#



#20
Methylene Chloride
Concen: 15.904 ug/l
RT: 3.69 min Scan# 220
Delta R.T. -0.04 min
Lab File: VD060379.D
Acq: 14 Nov 2018 15:10

Tgt Ion: 84 Resp: 81399
Ion Ratio Lower Upper
84 100
49 145.1 115.6 173.4
51 46.4 35.6 53.4
86 67.4 52.3 78.5





#29

Tetrahydrofuran

Concen: 3.432 ug/l

RT: 5.93 min Scan# 447

Delta R.T. -0.04 min

Lab File: VD060379.D

Acq: 14 Nov 2018 15:10

Instrument :

MSVOA_D

ClientSampleId :

CG-SOIL

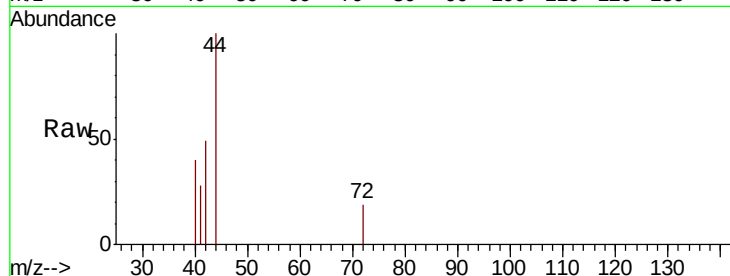
Tot Ion: 42 Resp: 2170

Ion Ratio Lower Upper

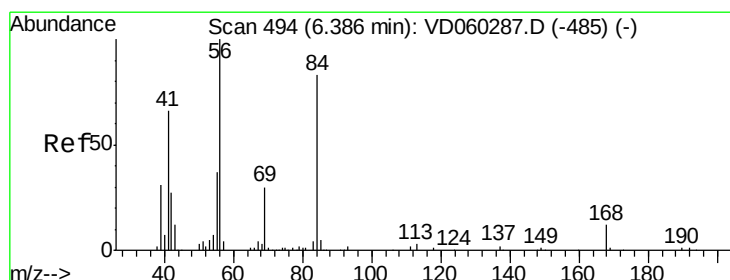
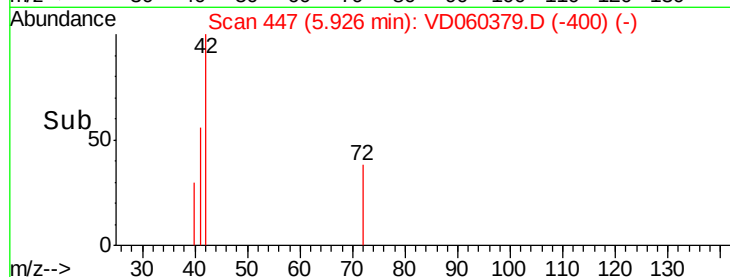
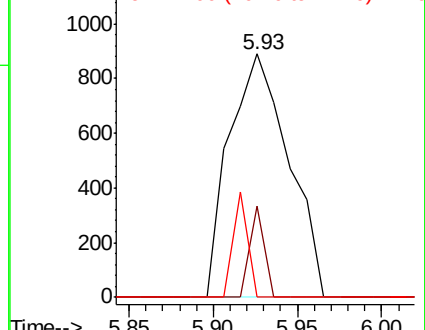
42 100

72 9.1 27.6 41.4#

71 10.5 26.5 39.7#



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: 1.221 ug/l

RT: 6.37 min Scan# 492

Delta R.T. -0.02 min

Lab File: VD060379.D

Acq: 14 Nov 2018 15:10

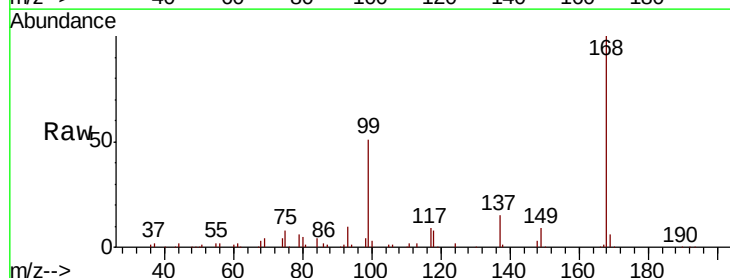
Tgt Ion: 56 Resp: 9694

Ion Ratio Lower Upper

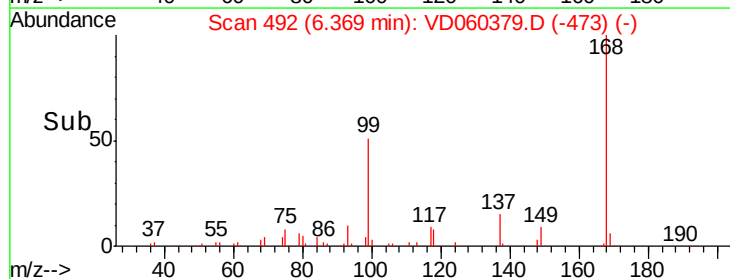
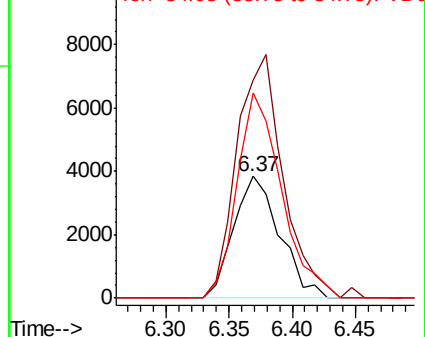
56 100

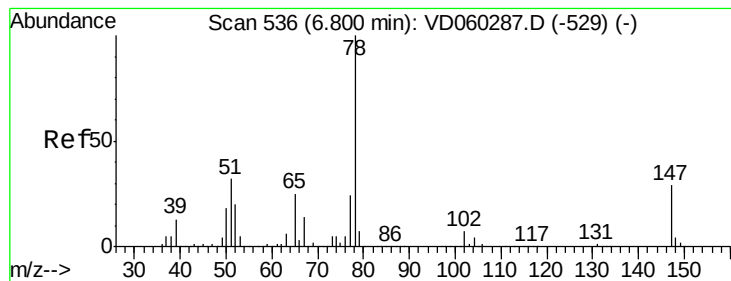
69 179.0 22.2 33.2#

84 168.3 63.0 94.4#



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: 6.75 min Scan# 531

Delta R.T. -0.05 min

Lab File: VD060379.D

Acq: 14 Nov 2018 15:10

Instrument :

MSVOA_D

ClientSampleId :

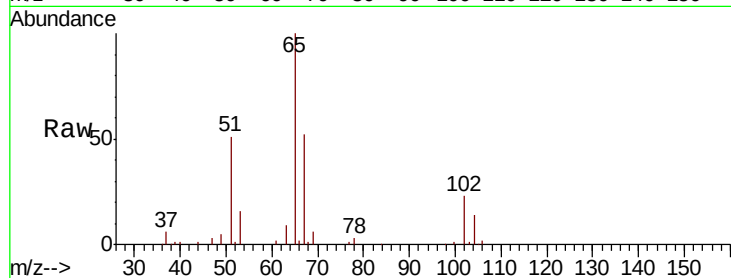
CG-SOIL

Tot Ion: 65 Resp: 298460

Ion Ratio Lower Upper

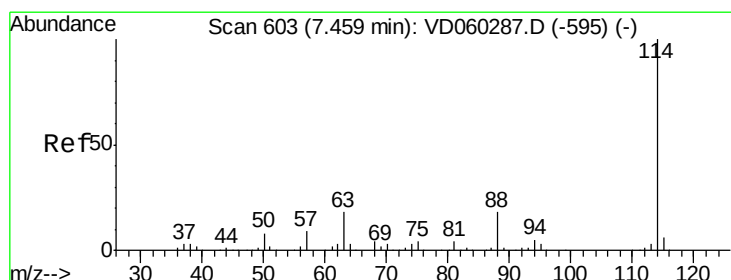
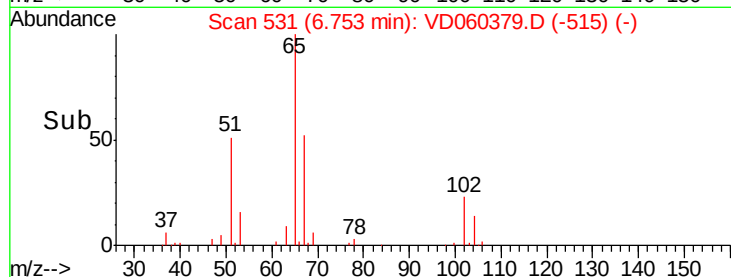
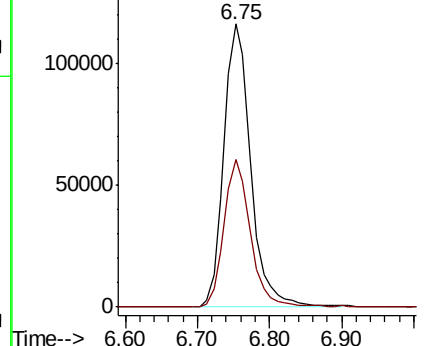
65 100

67 52.2 0.0 109.8



Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 7.41 min Scan# 598

Delta R.T. -0.05 min

Lab File: VD060379.D

Acq: 14 Nov 2018 15:10

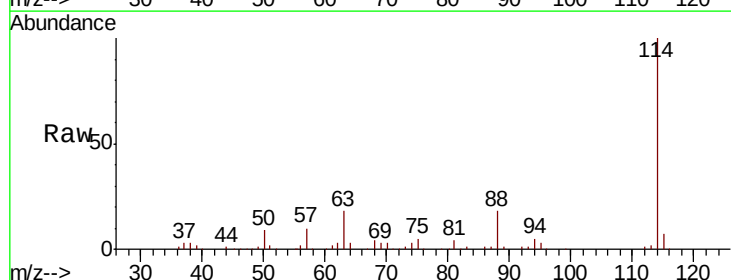
Tgt Ion: 114 Resp: 878769

Ion Ratio Lower Upper

114 100

63 18.5 0.0 34.0

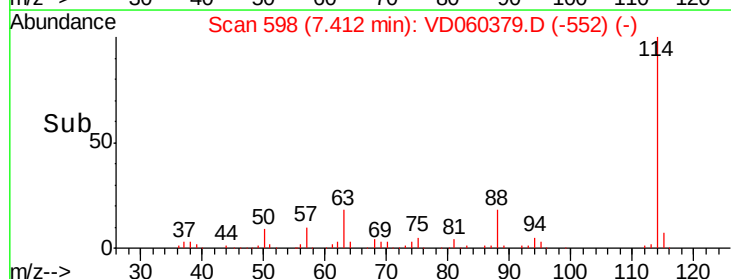
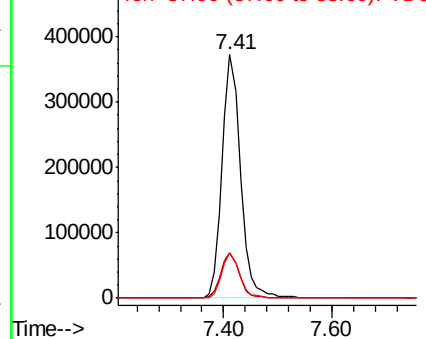
88 18.5 0.0 35.4

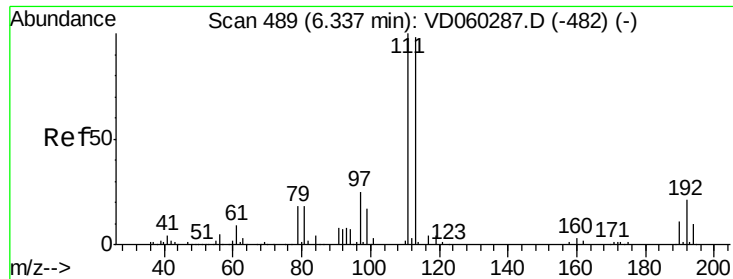


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 62.95 (62.65 to 63.65): VDC

Ion 87.90 (87.60 to 88.60): VDC

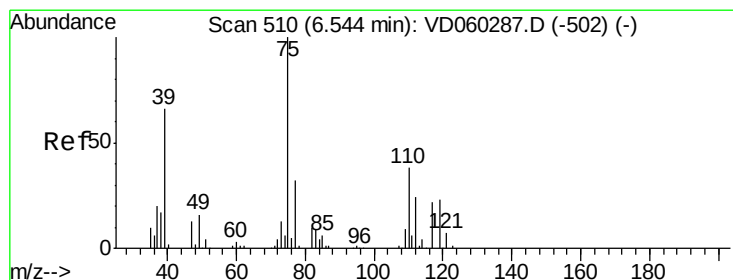
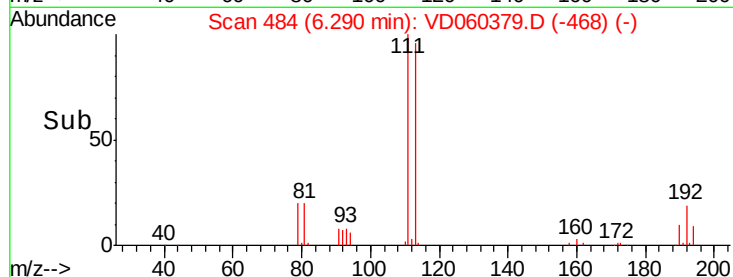
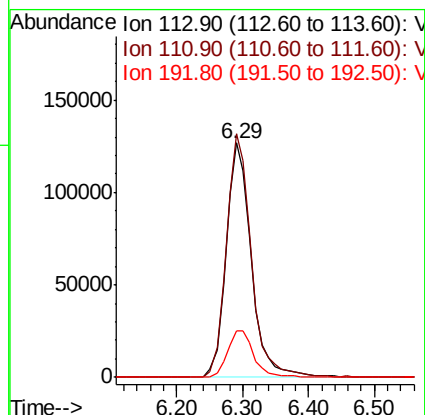
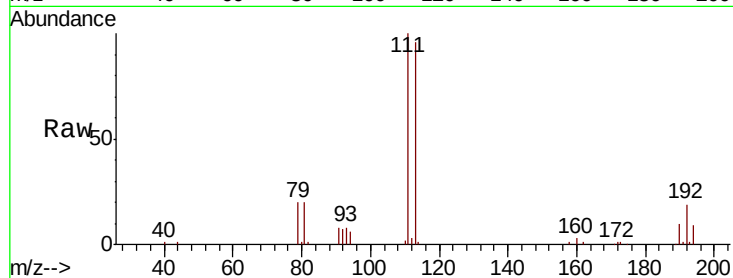




#35
Dibromofluoromethane
Concen: 50.000 ug/l
RT: 6.29 min Scan# 484
Delta R.T. -0.05 min
Lab File: VD060379.D
Acq: 14 Nov 2018 15:10

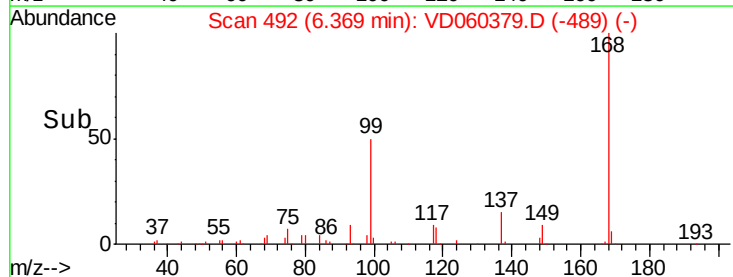
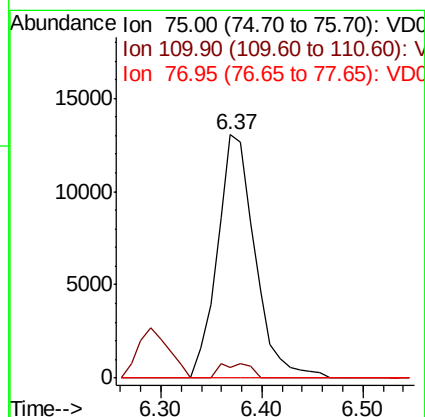
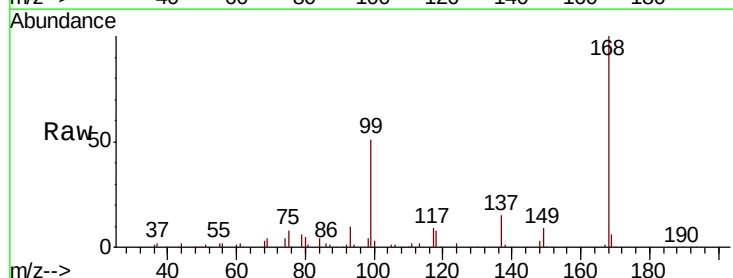
Instrument :
MSVOA_D
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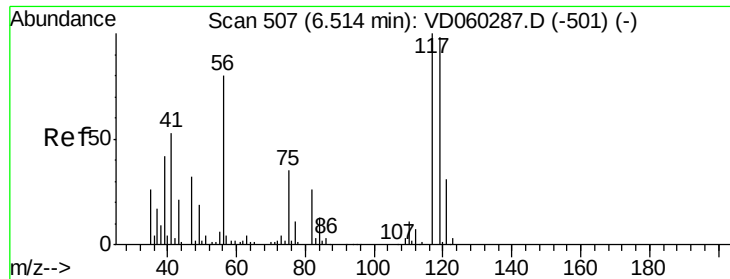
Tot Ion:113 Resp: 337911
Ion Ratio Lower Upper
113 100
111 104.0 81.6 122.4
192 20.1 16.5 24.7



#36
1,1-Dichloropropene
Concen: 3.902 ug/l
RT: 6.37 min Scan# 492
Delta R.T. -0.17 min
Lab File: VD060379.D
Acq: 14 Nov 2018 15:10

Tgt Ion: 75 Resp: 33875
Ion Ratio Lower Upper
75 100
110 4.5 18.0 54.0#
77 0.0 25.6 38.4#

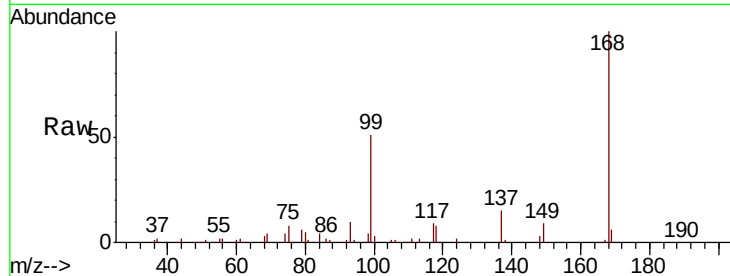




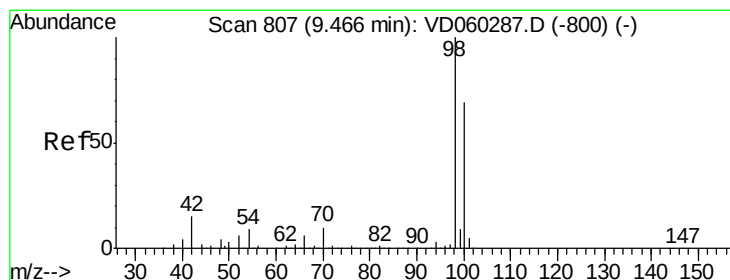
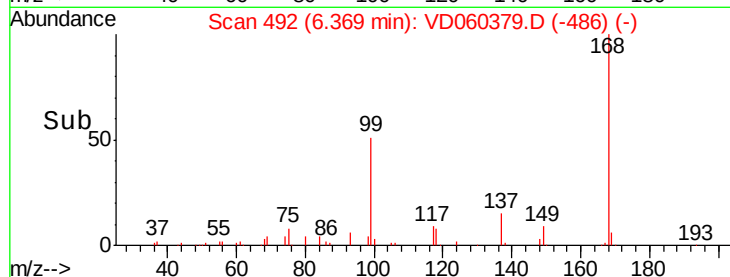
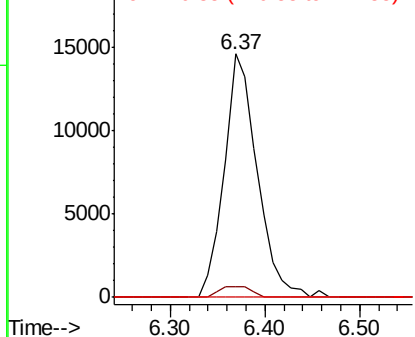
#38
Carbon Tetrachloride
Concen: 4.395 ug/l
RT: 6.37 min Scan# 492
Delta R.T. -0.15 min
Lab File: VD060379.D
Acq: 14 Nov 2018 15:10

Instrument :
MSVOA_D
ClientSampleId :
CG-SOIL

Tot Ion:117 Resp: 35399
Ion Ratio Lower Upper
117 100
119 4.3 76.6 115.0#
121 0.0 24.3 36.5#

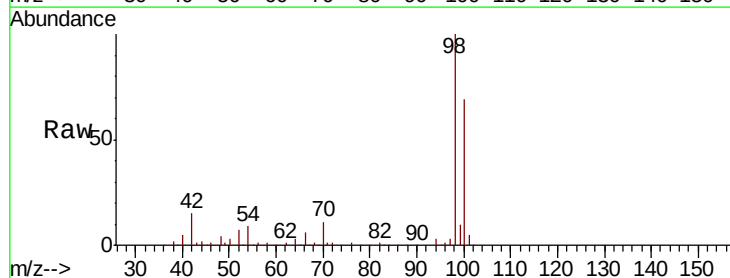


Abundance Ion 116.85 (116.55 to 117.55): V
Ion 118.85 (118.55 to 119.55): V
Ion 120.85 (120.55 to 121.55): V

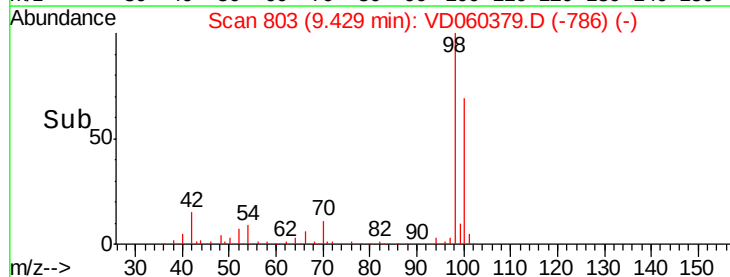
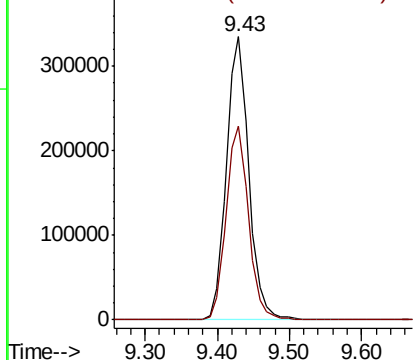


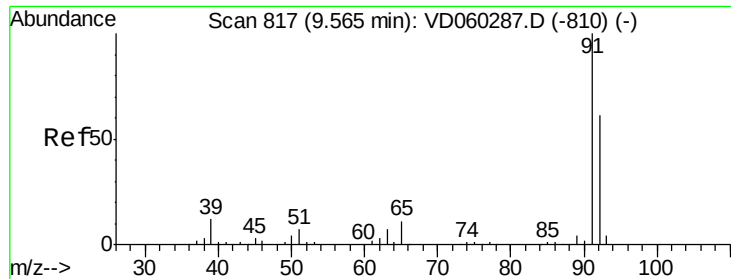
#50
Toluene-d8
Concen: N.D. ug/l
RT: 9.43 min Scan# 803
Delta R.T. -0.04 min
Lab File: VD060379.D
Acq: 14 Nov 2018 15:10

Tgt Ion: 98 Resp: 721426
Ion Ratio Lower Upper
98 100
100 68.6 55.2 82.8



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





#52

Toluene

Concen: 7.005 ug/l

RT: 9.52 min Scan# 812

Delta R.T. -0.05 min

Lab File: VD060379.D

Acq: 14 Nov 2018 15:10

Instrument :

MSVOA_D

ClientSampleId :

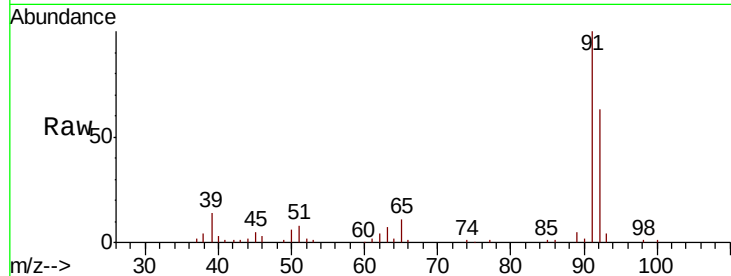
CG-SOIL

Tot Ion: 92 Resp: 99167

Ion Ratio Lower Upper

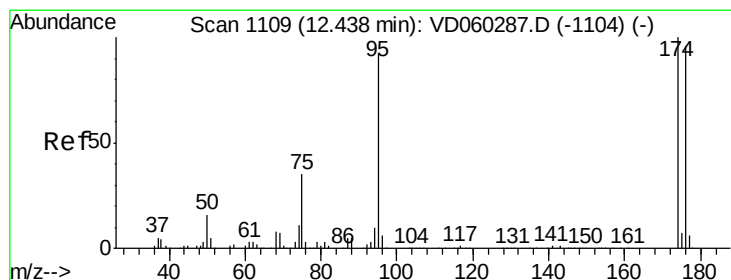
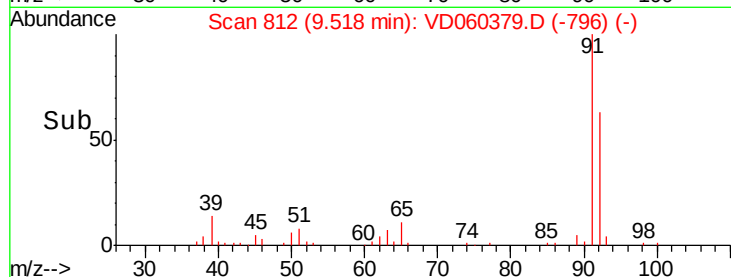
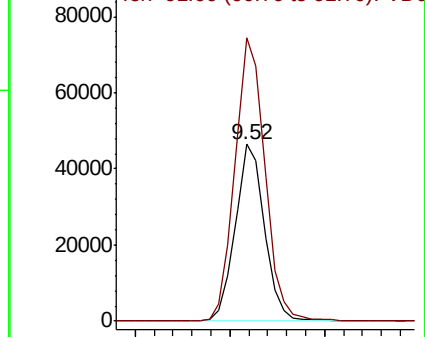
92 100

91 159.9 131.9 197.9



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC



#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 12.41 min Scan# 1106

Delta R.T. -0.03 min

Lab File: VD060379.D

Acq: 14 Nov 2018 15:10

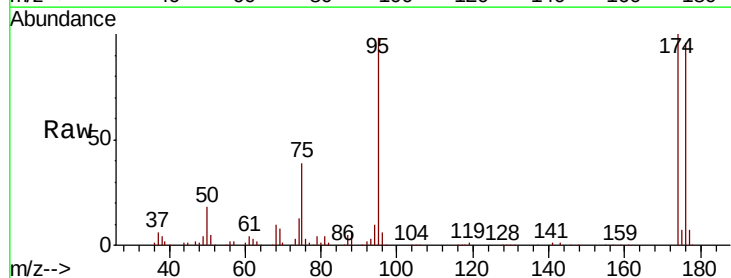
Tgt Ion: 95 Resp: 325819

Ion Ratio Lower Upper

95 100

174 101.8 0.0 160.8

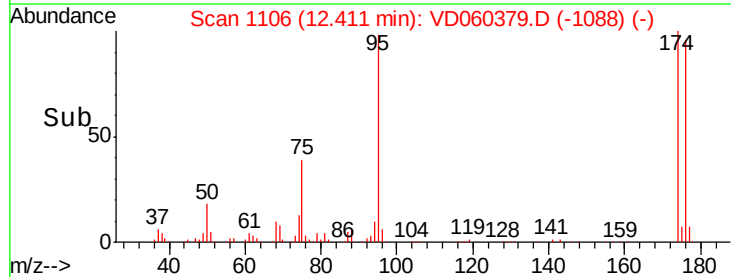
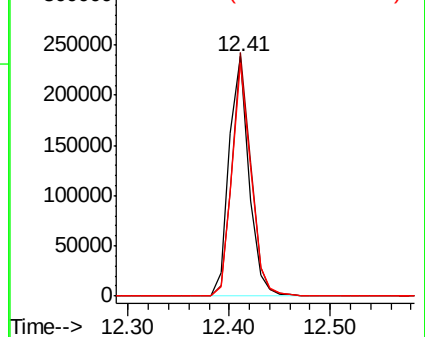
176 97.5 0.0 154.6

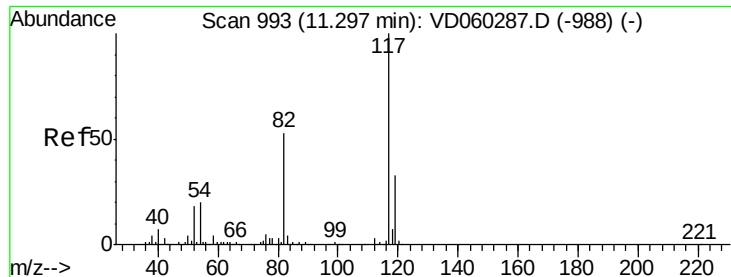


Abundance Ion 95.00 (94.70 to 95.70): VDC

Ion 173.90 (173.60 to 174.60): V

Ion 175.90 (175.60 to 176.60): V

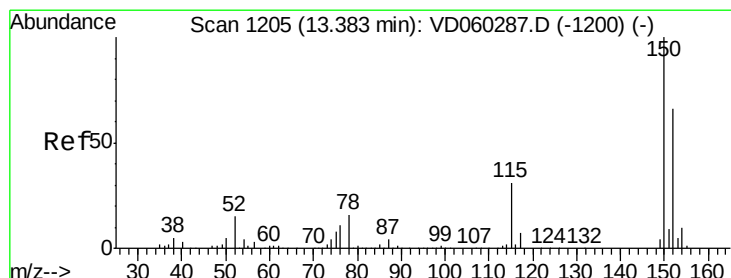
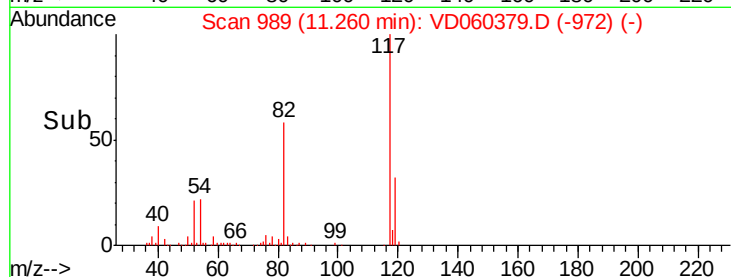
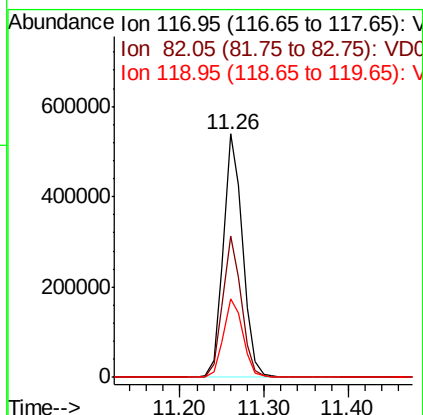
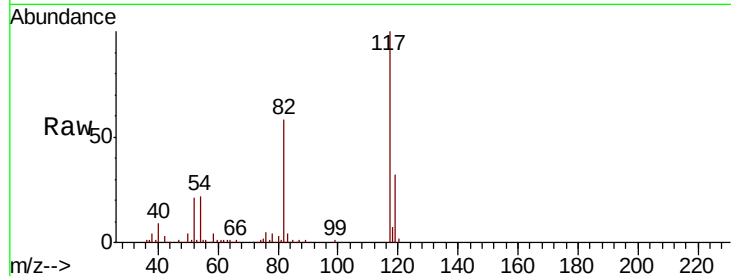




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.26 min Scan# 989
Delta R.T. -0.04 min
Lab File: VD060379.D
Acq: 14 Nov 2018 15:10

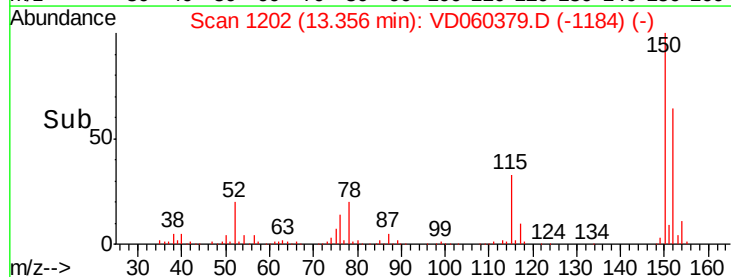
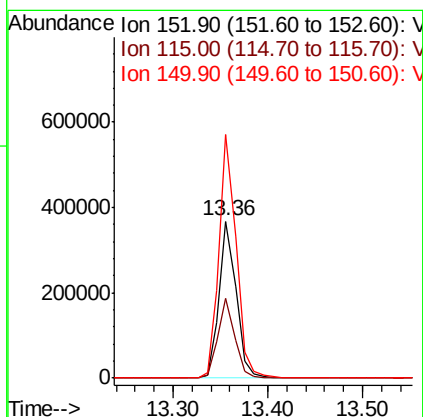
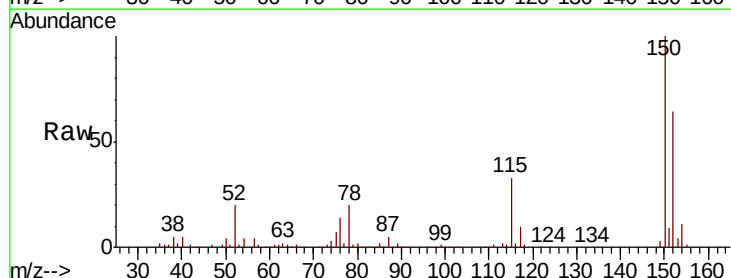
Instrument :
MSVOA_D
ClientSampleId :
CG-SOIL

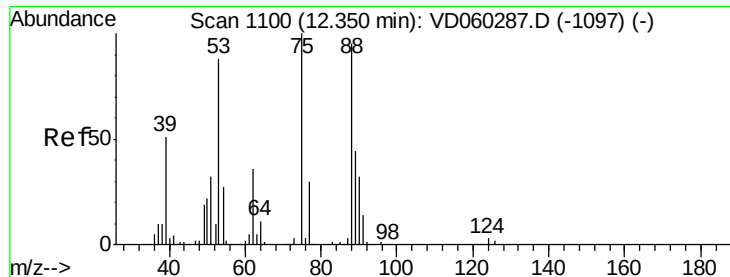
Tot Ion:117 Resp: 859981
Ion Ratio Lower Upper
117 100
82 58.0 43.7 65.5
119 32.4 26.1 39.1



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.36 min Scan# 1202
Delta R.T. -0.03 min
Lab File: VD060379.D
Acq: 14 Nov 2018 15:10

Tgt Ion:152 Resp: 461528
Ion Ratio Lower Upper
152 100
115 50.7 24.1 72.3
150 155.2 0.0 310.6

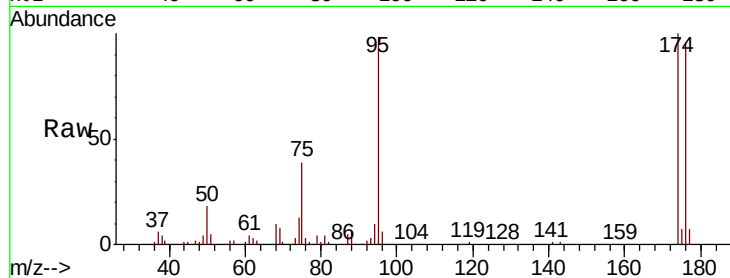




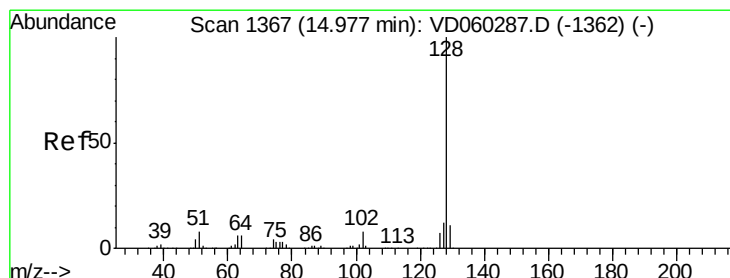
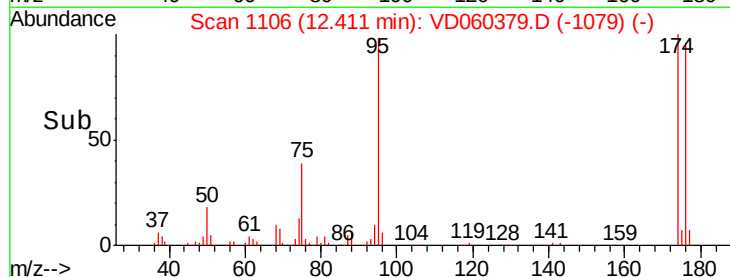
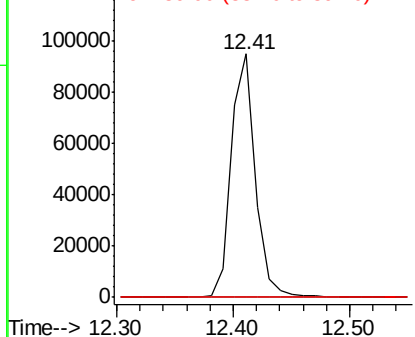
#81
trans-1,4-Dichloro-2-butene
Concen: 86.000 ug/l
RT: 12.41 min Scan# 1106
Delta R.T. 0.06 min
Lab File: VD060379.D
Acq: 14 Nov 2018 15:10

Instrument :
MSVOA_D
ClientSampleId :
CG-SOIL

Tot Ion: 75 Resp: 135175
Ion Ratio Lower Upper
75 100
53 0.0 68.6 103.0#
89 0.0 34.1 51.1#

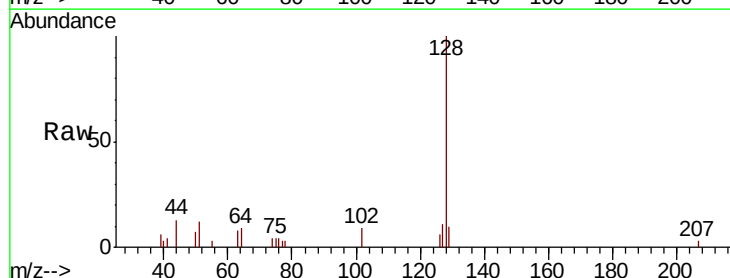


Abundance Ion 75.00 (74.70 to 75.70): VDC
Ion 53.00 (52.70 to 53.70): VDC
Ion 89.00 (88.70 to 89.70): VDC



#95
Naphthalene
Concen: 1.402 ug/l
RT: 14.95 min Scan# 1364
Delta R.T. -0.03 min
Lab File: VD060379.D
Acq: 14 Nov 2018 15:10

Tgt Ion: 128 Resp: 17715
Ion Ratio Lower Upper
128 100
127 10.8 9.6 14.4
129 9.7 8.6 12.8



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

