

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD042519\
 Data File : VD062033.D
 Acq On : 25 Apr 2019 12:29
 Operator : VA/AP
 Sample : K2526-01
 Misc : 5.72g/5ml/MSVOA D/SOIL
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 SOIL-ROLLOFFS

Quant Time: Apr 25 12:56:25 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D042319S.M
 Quant Title : SW846 8260
 QLast Update : Tue Apr 23 14:52:55 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.04	168	5760	50.00	ug/l	-0.01
34) 1,4-Difluorobenzene	8.21	114	9567	50.00	ug/l	-0.01
63) Chlorobenzene-d5	12.37	117	5794	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.51	152	2260	50.00	ug/l	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.45	65	2960	65.66	ug/l	-0.01
Spiked Amount			Recovery	=	131.32%	
35) Dibromofluoromethane	6.90	113	2701	40.82	ug/l	-0.03
Spiked Amount			Recovery	=	81.64%	
50) Toluene-d8	10.41	98	8782	55.78	ug/l	-0.01
Spiked Amount			Recovery	=	111.56%	
62) 4-Bromofluorobenzene	13.56	95	2597	41.13	ug/l	0.00
Spiked Amount			Recovery	=	82.26%	

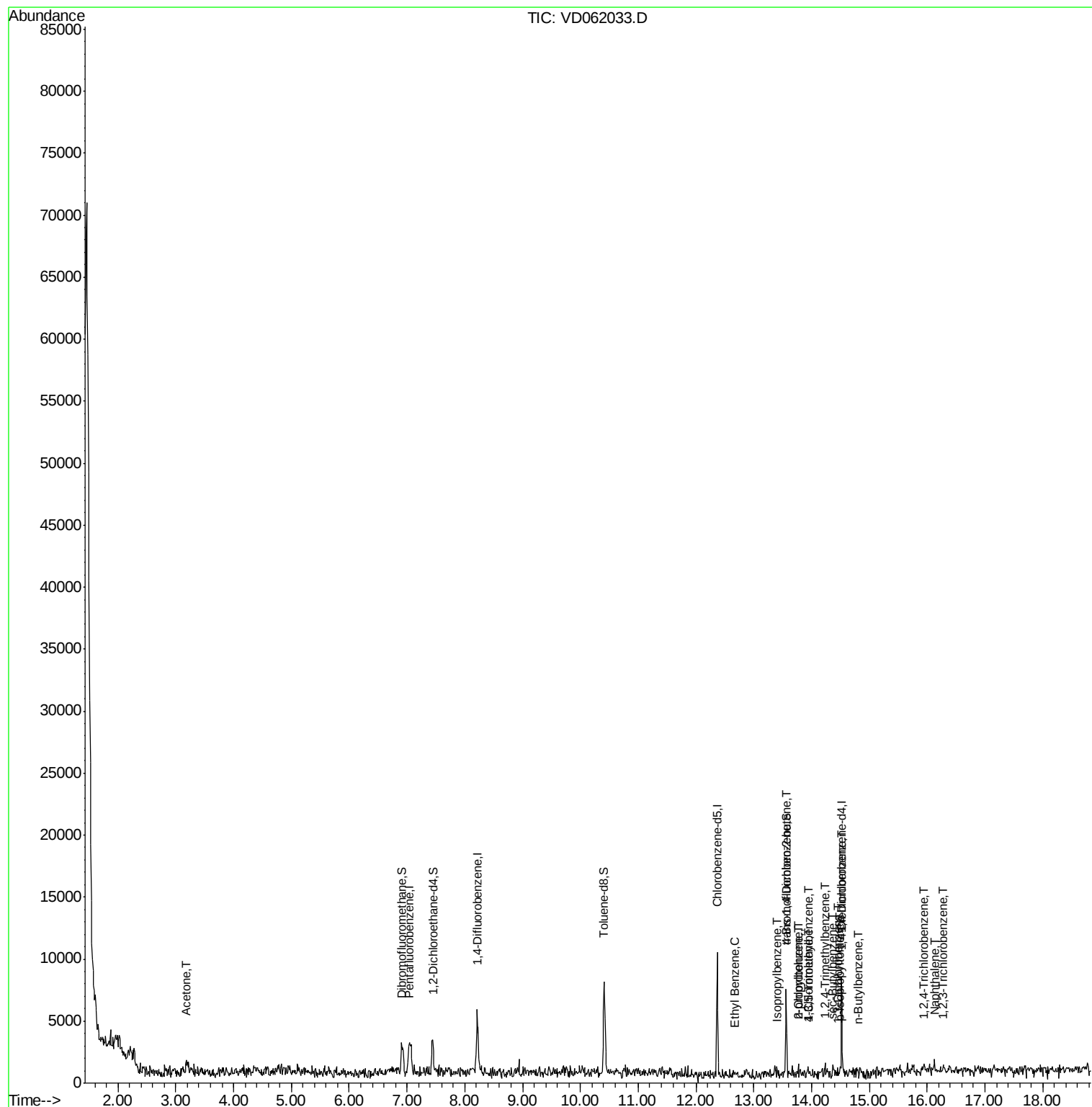
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.18	43	2299	213.582	ug/l #	50
67) Ethyl Benzene	12.67	91	265	1.483	ug/l #	44
73) Isopropylbenzene	13.40	105	184	1.221	ug/l #	51
78) n-propylbenzene	13.78	91	504	2.920	ug/l #	54
79) 2-Chlorotoluene	13.78	91	504	4.821	ug/l #	38
80) 1,3,5-Trimethylbenzene	13.93	105	217	1.805	ug/l #	29
81) trans-1,4-Dichloro-2-buten	13.56	75	508	58.412	ug/l #	16
82) 4-Chlorotoluene	13.94	91	493	4.282	ug/l #	37
84) 1,2,4-Trimethylbenzene	14.24	105	292	2.544	ug/l #	30
85) sec-Butylbenzene	14.37	105	340	2.260	ug/l #	60
86) p-Isopropyltoluene	14.49	119	296	2.198	ug/l #	52
87) 1,3-Dichlorobenzene	14.45	146	266	3.512	ug/l #	32
88) 1,4-Dichlorobenzene	14.53	146	524	7.398	ug/l #	25
89) n-Butylbenzene	14.80	91	310	2.564	ug/l #	28
93) 1,2,4-Trichlorobenzene	15.94	180	413	12.252	ug/l #	75
95) Naphthalene	16.13	128	869	15.967	ug/l #	70
96) 1,2,3-Trichlorobenzene	16.28	180	187	9.778	ug/l #	13

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.04 min Scan# 571

Delta R.T. -0.01 min

Lab File: VD062033.D

Acq: 25 Apr 2019 12:29

Instrument :

MSVOA_D

ClientSampleId :

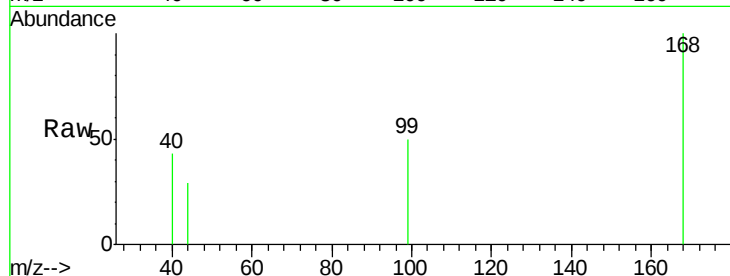
SOIL-ROLLOFFS

Tot Ion:168 Resp: 5760

Ion Ratio Lower Upper

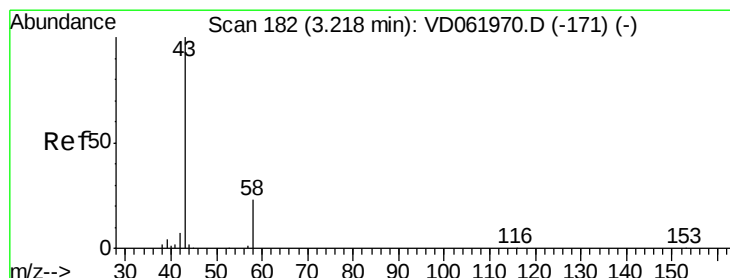
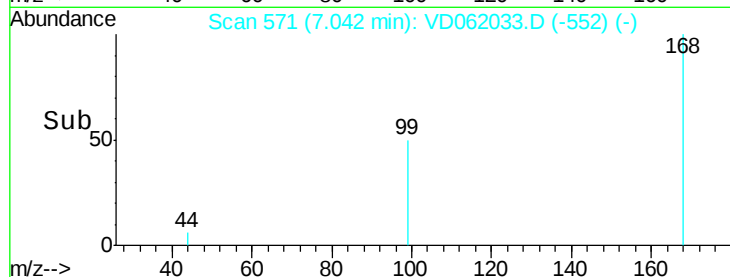
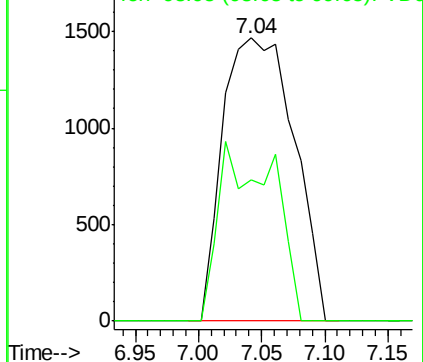
168 100

99 50.0 46.5 69.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#16

Acetone

Concen: 213.582 ug/l

RT: 3.18 min Scan# 179

Delta R.T. -0.04 min

Lab File: VD062033.D

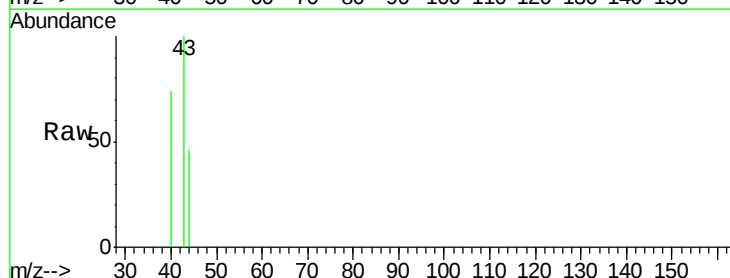
Acq: 25 Apr 2019 12:29

Tgt Ion: 43 Resp: 2299

Ion Ratio Lower Upper

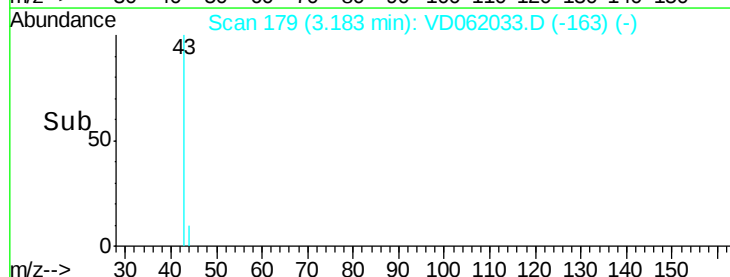
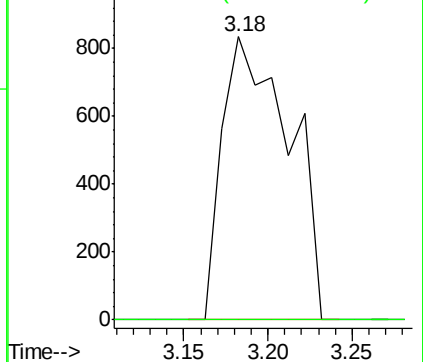
43 100

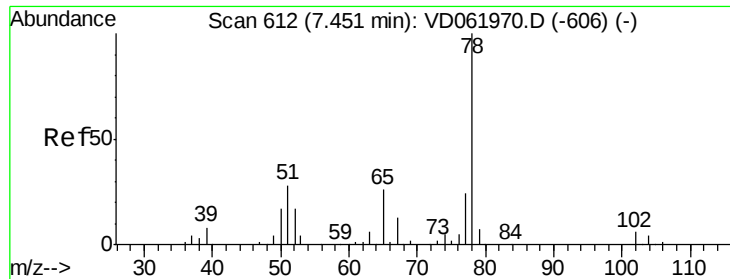
58 0.0 19.9 29.9#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC





#33

1,2-Dichloroethane-d4

Concen: 65.660 ug/l

RT: 7.45 min Scan# 612

Delta R.T. -0.01 min

Lab File: VD062033.D

Acq: 25 Apr 2019 12:29

Instrument :

MSVOA_D

ClientSampleId :

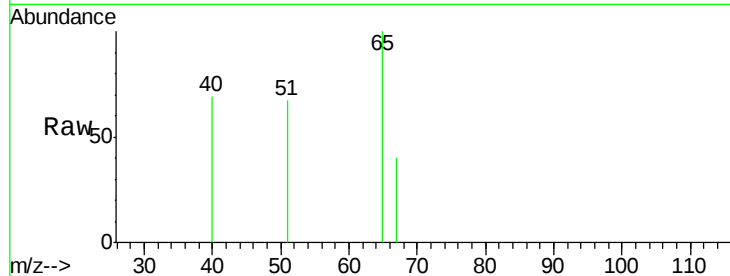
SOIL-ROLLOFFS

Tot Ion: 65 Resp: 2960

Ion Ratio Lower Upper

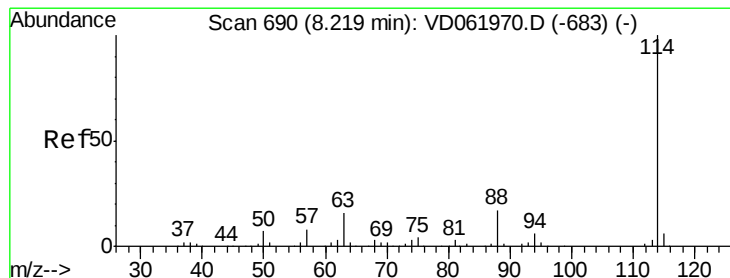
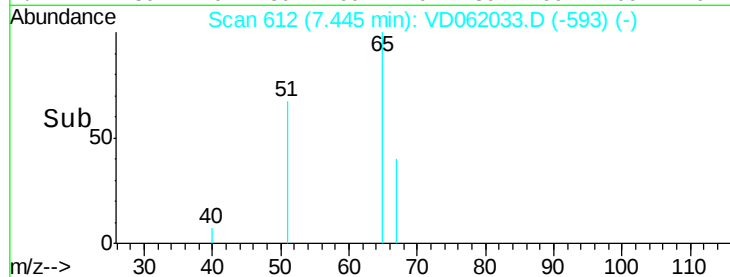
65 100

67 40.4 0.0 98.0



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. -0.01 min

Lab File: VD062033.D

Acq: 25 Apr 2019 12:29

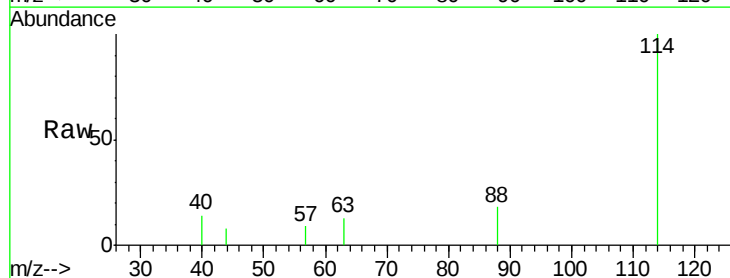
Tgt Ion: 114 Resp: 9567

Ion Ratio Lower Upper

114 100

63 13.3 0.0 32.4

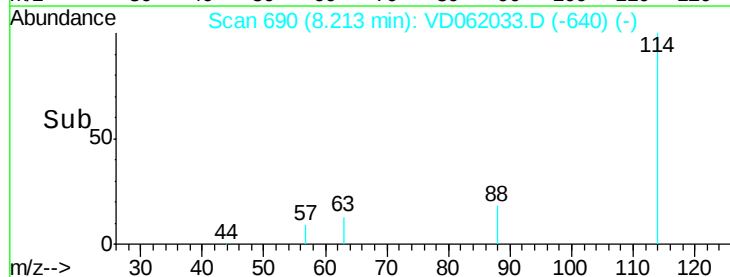
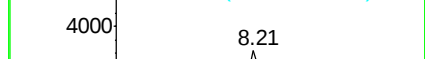
88 18.5 0.0 33.6



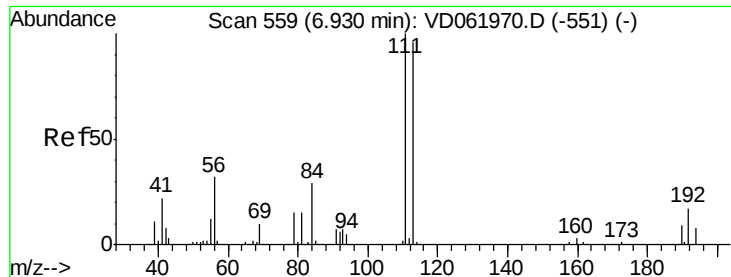
Abundance Ion 114.00 (113.70 to 114.70): V

Ion 62.95 (62.65 to 63.65): VDC

Ion 87.90 (87.60 to 88.60): VDC



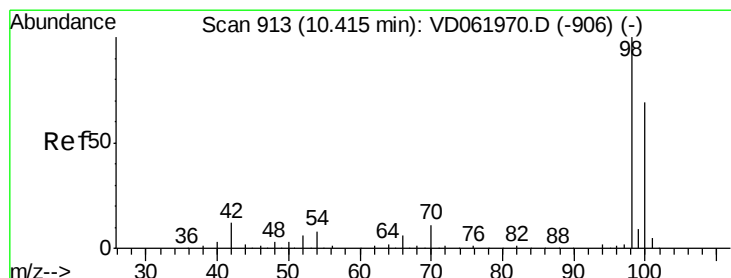
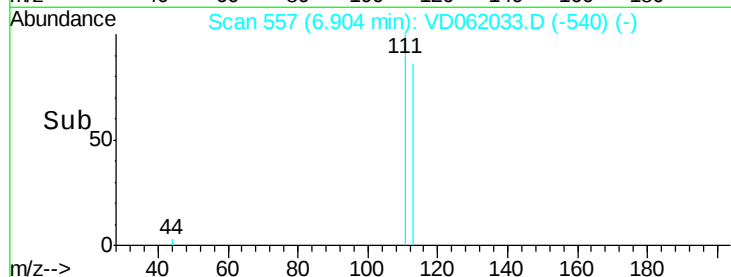
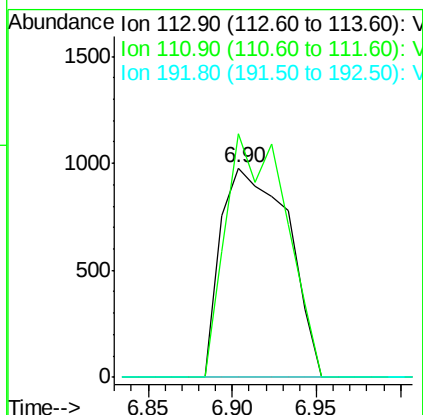
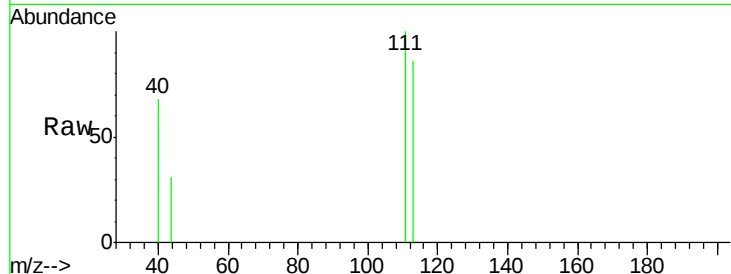
Time-->



#35
 Dibromofluoromethane
 Concen: 40.822 ug/l
 RT: 6.90 min Scan# 557
 Delta R.T. -0.03 min
 Lab File: VD062033.D
 Acq: 25 Apr 2019 12:29

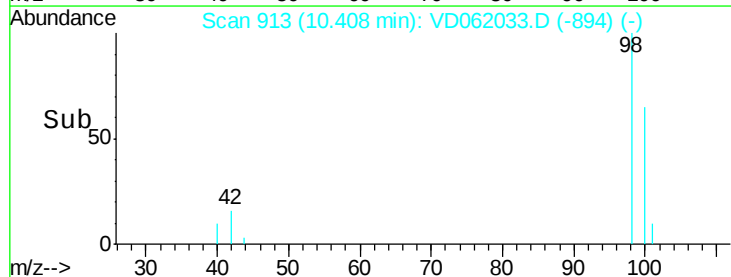
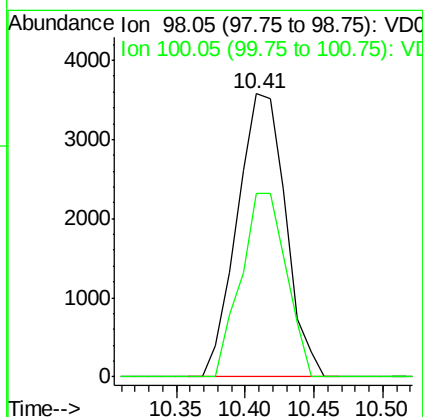
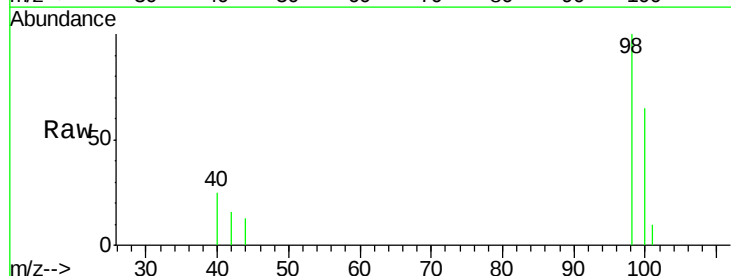
Instrument :
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 SOIL-ROLLOFFS

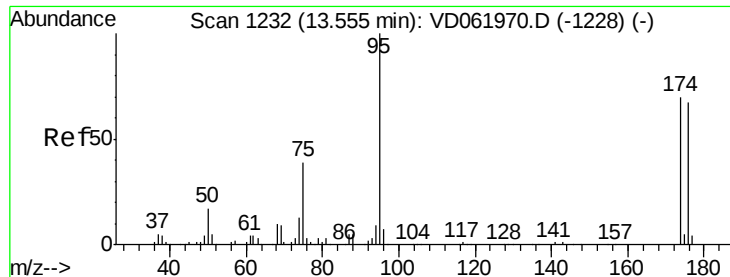
Tot Ion:113 Resp: 2701
 Ion Ratio Lower Upper
 113 100
 111 116.5 78.5 117.7
 192 0.0 13.0 19.4#



#50
 Toluene-d8
 Concen: 55.780 ug/l
 RT: 10.41 min Scan# 913
 Delta R.T. -0.01 min
 Lab File: VD062033.D
 Acq: 25 Apr 2019 12:29

Tgt Ion: 98 Resp: 8782
 Ion Ratio Lower Upper
 98 100
 100 65.0 53.8 80.8

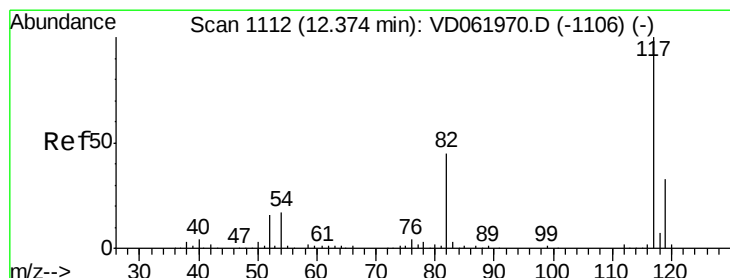
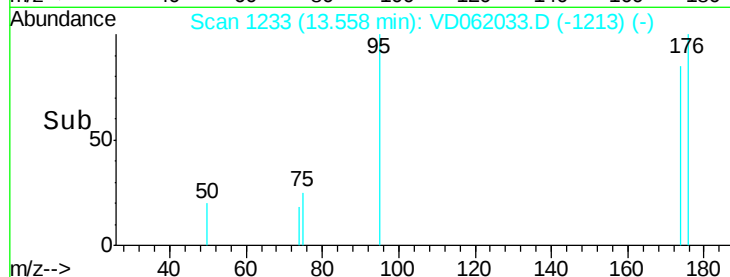
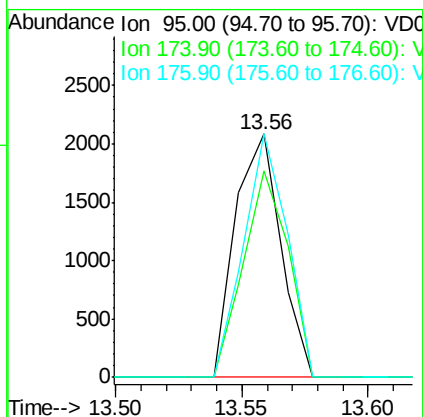
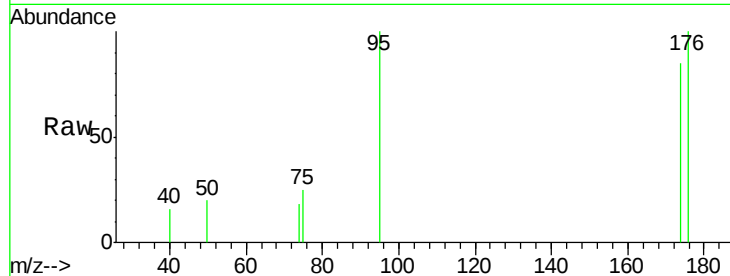




#62
4-Bromofluorobenzene
Concen: 41.126 ug/l
RT: 13.56 min Scan# 1233
Delta R.T. -0.00 min
Lab File: VD062033.D
Acq: 25 Apr 2019 12:29

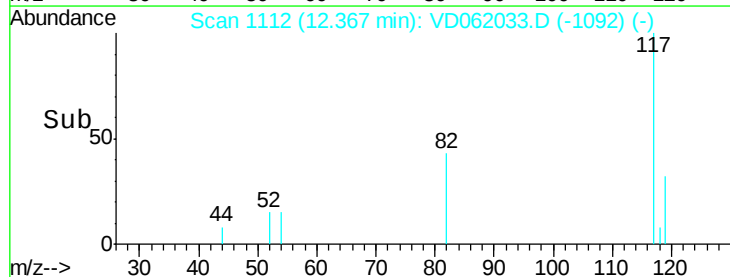
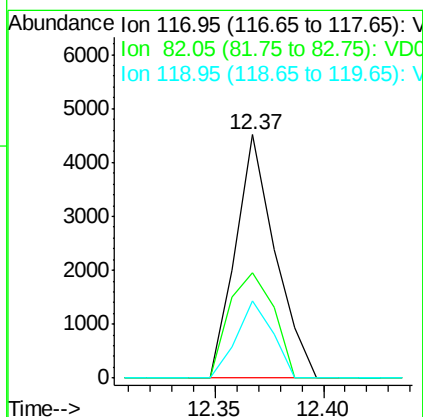
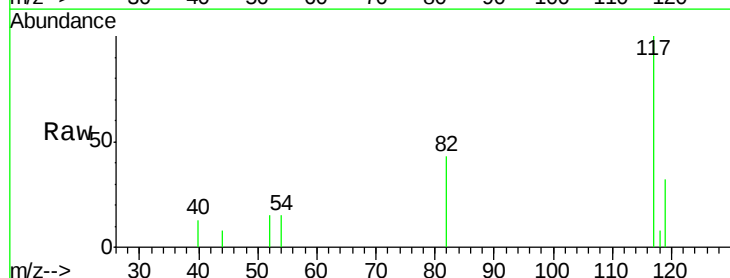
Instrument :
MSVOA_D
ClientSampleId :
SOIL-ROLLOFFS

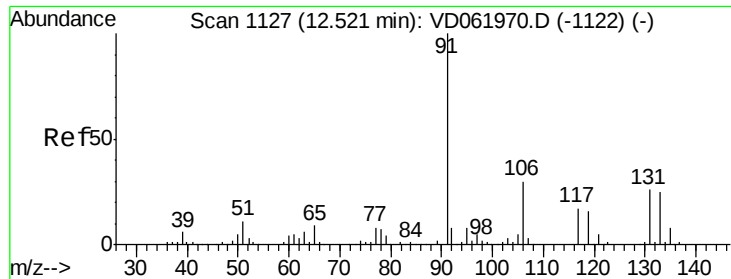
Tot Ion: 95 Resp: 2597
Ion Ratio Lower Upper
95 100
174 85.1 0.0 181.8
176 100.0 0.0 174.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.37 min Scan# 1112
Delta R.T. -0.00 min
Lab File: VD062033.D
Acq: 25 Apr 2019 12:29

Tgt Ion: 117 Resp: 5794
Ion Ratio Lower Upper
117 100
82 43.3 36.2 54.2
119 32.0 26.2 39.4

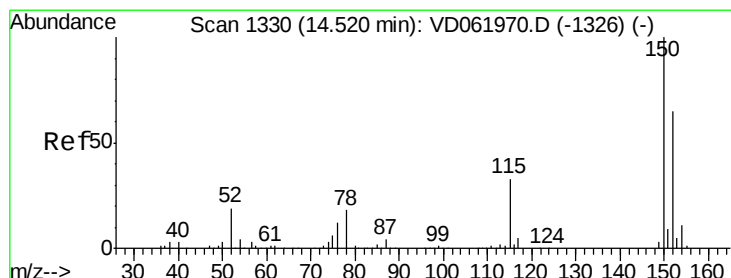
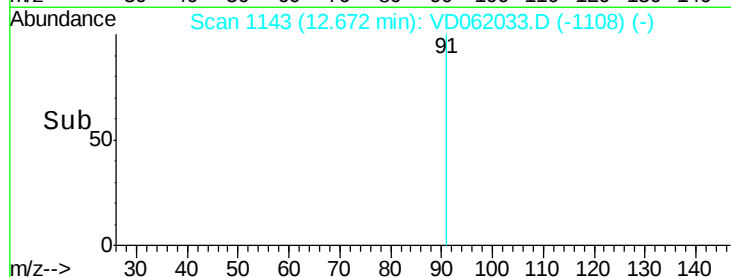
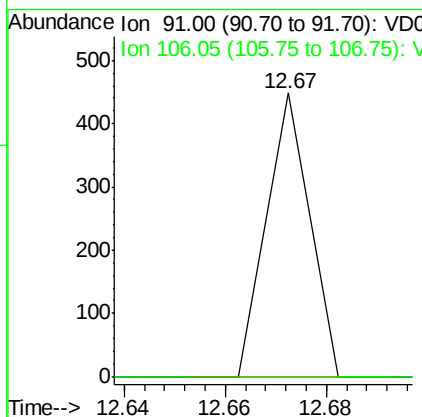
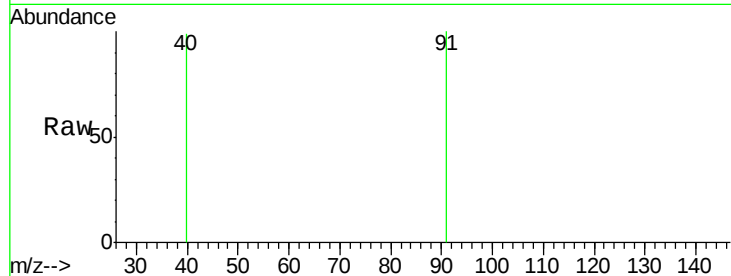




#67
Ethyl Benzene
Concen: 1.483 ug/l
RT: 12.67 min Scan# 1143
Delta R.T. 0.15 min
Lab File: VD062033.D
Acq: 25 Apr 2019 12:29

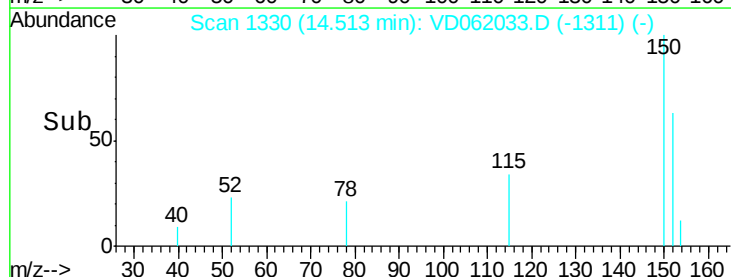
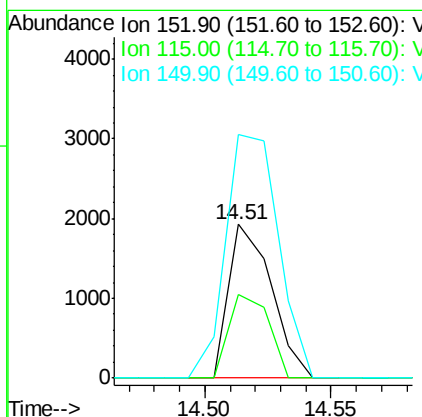
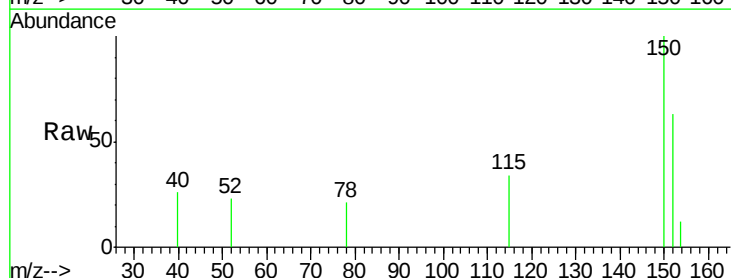
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MSVOA_D
ClientSampleId :
SOIL-ROLLOFFS

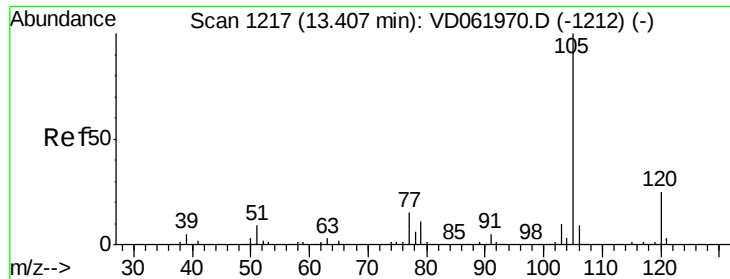
Tot Ion: 91 Resp: 265
Ion Ratio Lower Upper
91 100
106 0.0 24.7 37.1#



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.51 min Scan# 1330
Delta R.T. -0.01 min
Lab File: VD062033.D
Acq: 25 Apr 2019 12:29

Tgt Ion: 152 Resp: 2260
Ion Ratio Lower Upper
152 100
115 54.2 30.9 92.7
150 158.6 0.0 314.8





#73

Isopropylbenzene

Concen: 1.221 ug/l

RT: 13.40 min Scan# 1217

Delta R.T. -0.00 min

Lab File: VD062033.D

Acq: 25 Apr 2019 12:29

Instrument :

MSVOA_D

ClientSampleId :

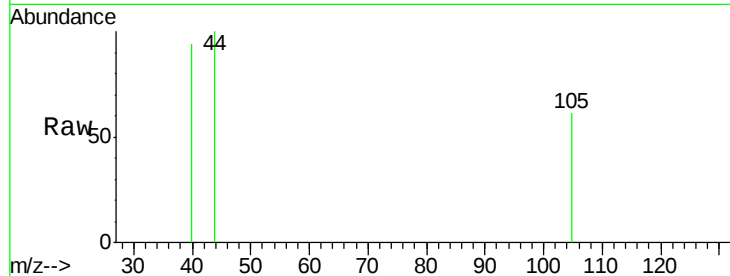
SOIL-ROLLOFFS

Tot Ion:105 Resp: 184

Ion Ratio Lower Upper

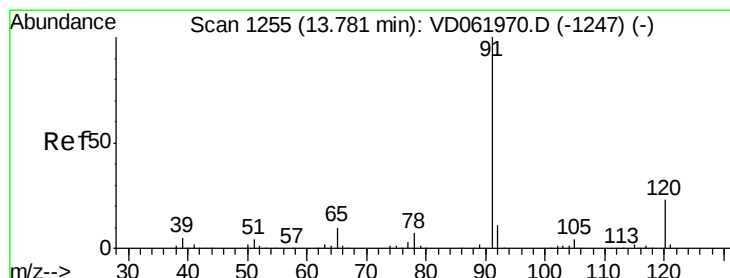
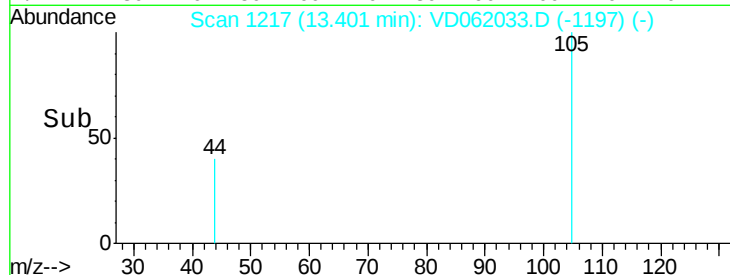
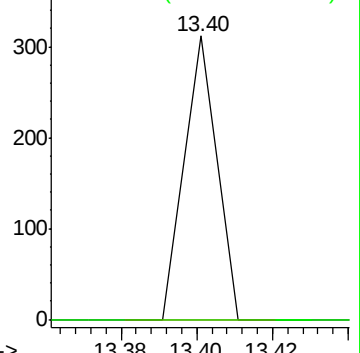
105 100

120 0.0 12.0 36.1#



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V



#78

n-propylbenzene

Concen: 2.920 ug/l

RT: 13.78 min Scan# 1255

Delta R.T. -0.00 min

Lab File: VD062033.D

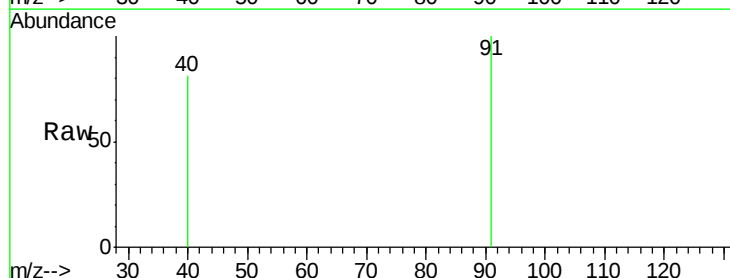
Acq: 25 Apr 2019 12:29

Tgt Ion: 91 Resp: 504

Ion Ratio Lower Upper

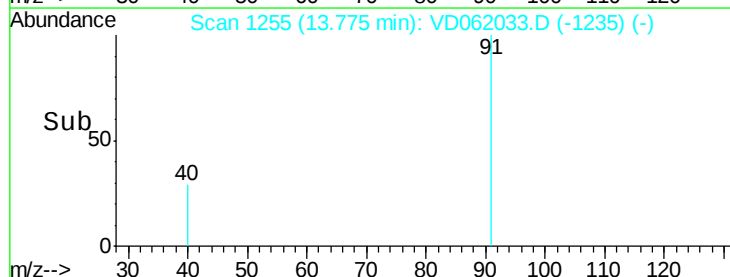
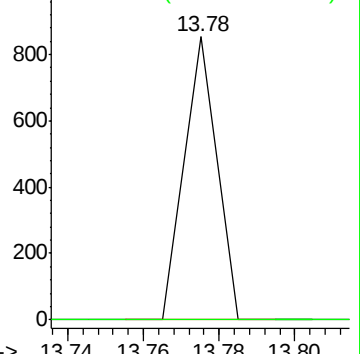
91 100

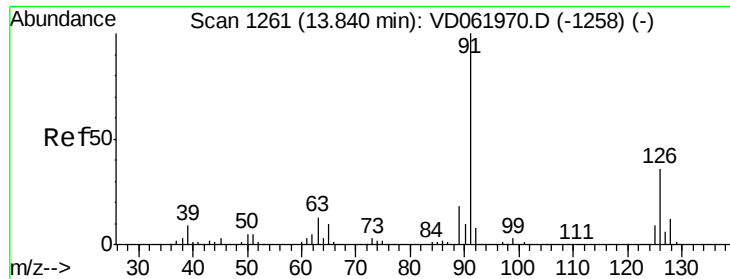
120 0.0 11.1 33.1#



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 120.05 (119.75 to 120.75): V

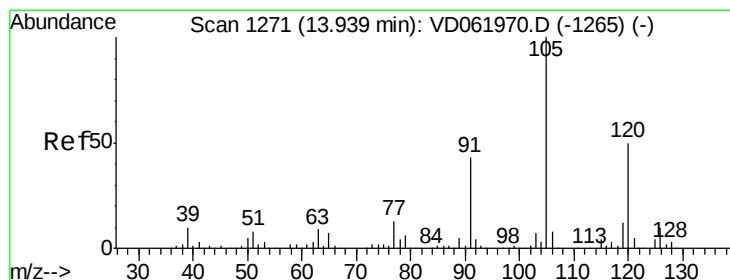
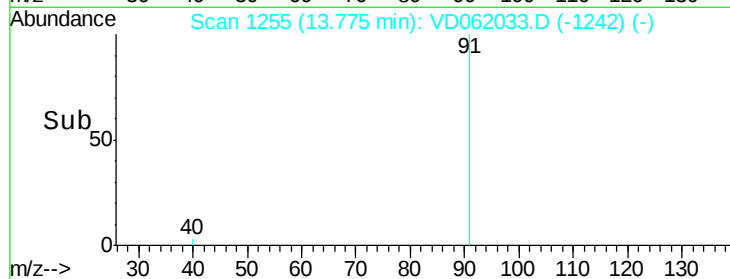
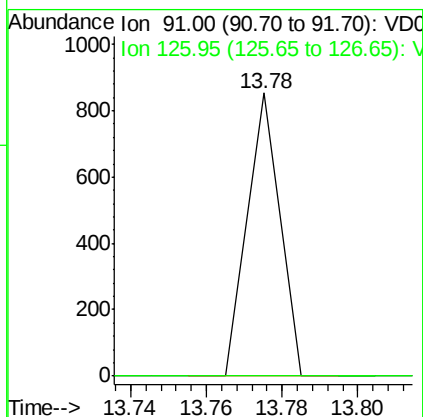
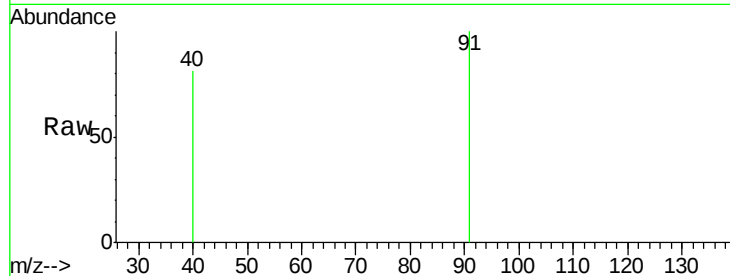




#79
 2-Chlorotoluene
 Concen: 4.821 ug/l
 RT: 13.78 min Scan# 1255
 Delta R.T. -0.07 min
 Lab File: VD062033.D
 Acq: 25 Apr 2019 12:29

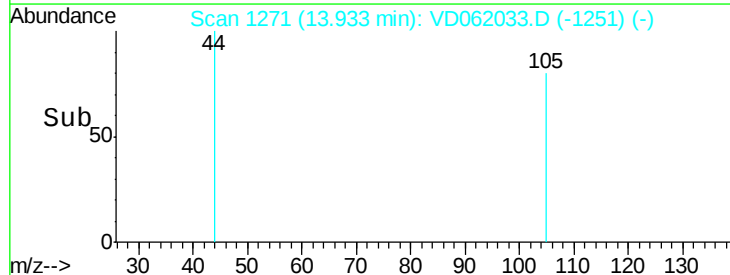
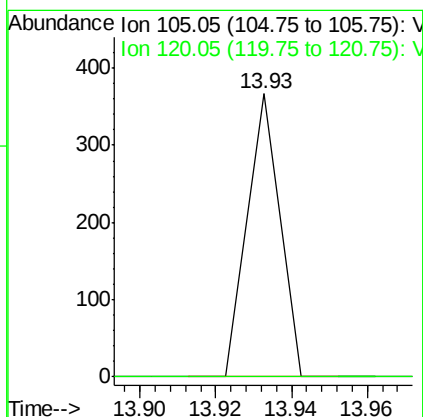
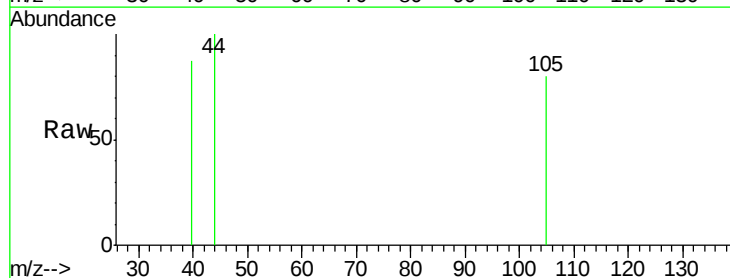
Instrument :
 MSVOA_D
 ClientSampleId :
 SOIL-ROLLOFFS

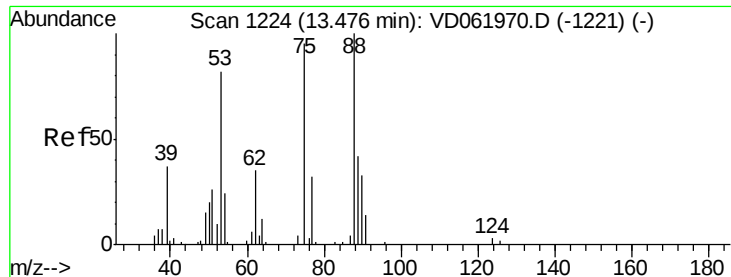
Tot Ion: 91 Resp: 504
 Ion Ratio Lower Upper
 91 100
 126 0.0 18.6 55.8#



#80
 1,3,5-Trimethylbenzene
 Concen: 1.805 ug/l
 RT: 13.93 min Scan# 1271
 Delta R.T. -0.00 min
 Lab File: VD062033.D
 Acq: 25 Apr 2019 12:29

Tgt Ion: 105 Resp: 217
 Ion Ratio Lower Upper
 105 100
 120 0.0 24.0 72.0#

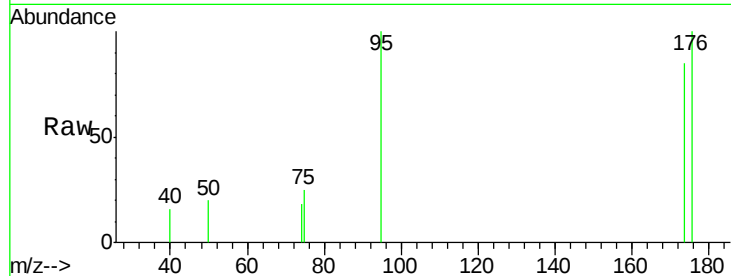




#81
trans-1,4-Dichloro-2-butene
Concen: 58.412 ug/l
RT: 13.56 min Scan# 1233
Delta R.T. 0.08 min
Lab File: VD062033.D
Acq: 25 Apr 2019 12:29

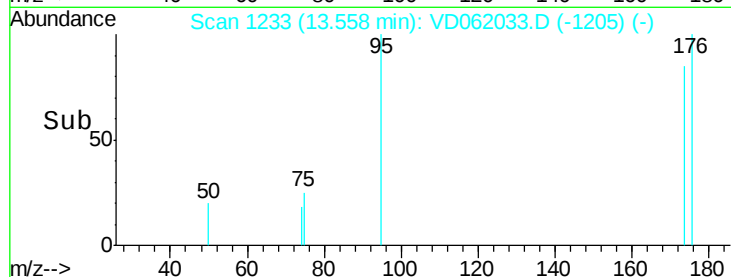
Instrument :
MSVOA_D
ClientSampleId :
SOIL-ROLLOFFS

Tot Ion: 75 Resp: 508
Ion Ratio Lower Upper
75 100
53 0.0 65.8 98.8#
89 0.0 35.0 52.6#

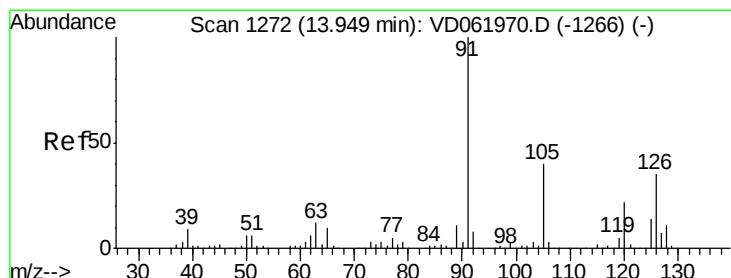


Abundance Ion 75.00 (74.70 to 75.70): VDC
Ion 53.00 (52.70 to 53.70): VDC
Ion 89.00 (88.70 to 89.70): VDC

13.56

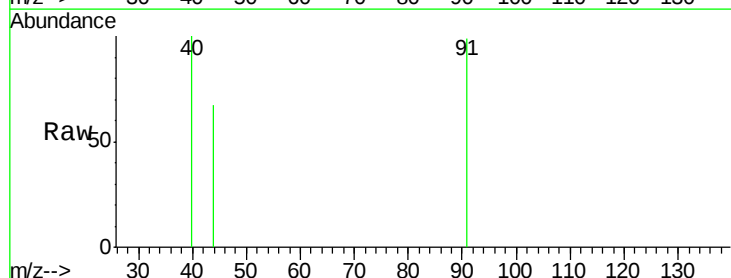


Time-->



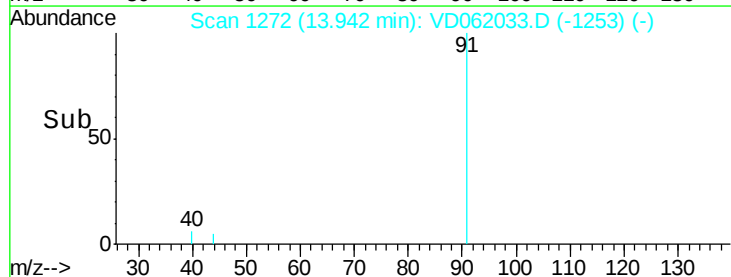
#82
4-Chlorotoluene
Concen: 4.282 ug/l
RT: 13.94 min Scan# 1272
Delta R.T. -0.01 min
Lab File: VD062033.D
Acq: 25 Apr 2019 12:29

Tgt Ion: 91 Resp: 493
Ion Ratio Lower Upper
91 100
126 0.0 19.1 57.5#

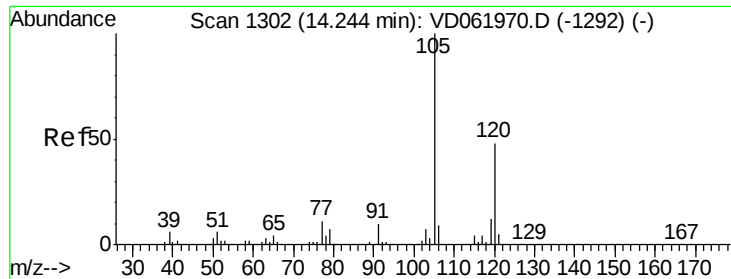


Abundance Ion 91.00 (90.70 to 91.70): VDC
Ion 125.95 (125.65 to 126.65): V

13.94



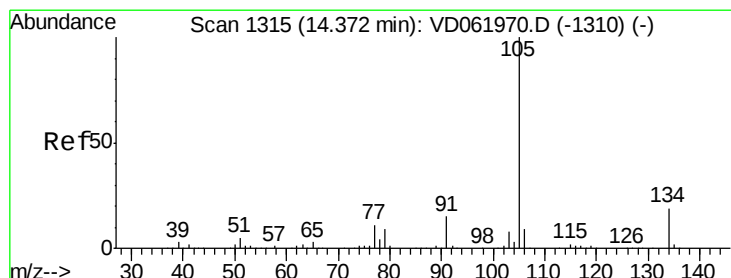
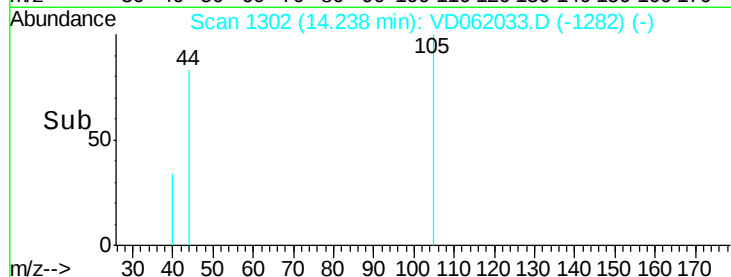
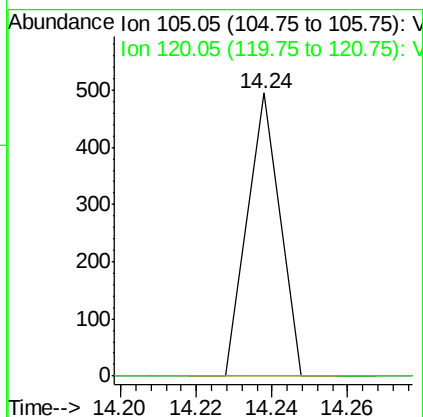
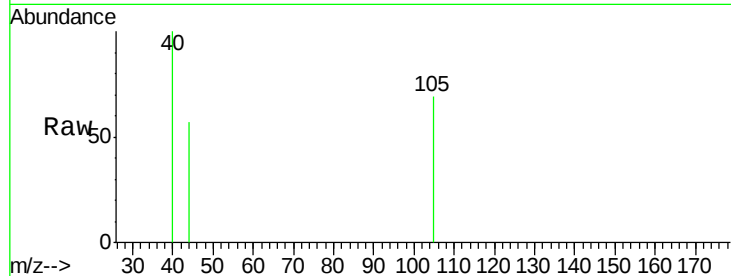
Time-->



#84
 1,2,4-Trimethylbenzene
 Concen: 2.544 ug/l
 RT: 14.24 min Scan# 1302
 Delta R.T. -0.00 min
 Lab File: VD062033.D
 Acq: 25 Apr 2019 12:29

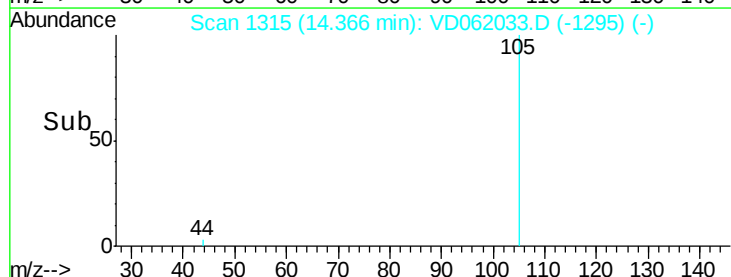
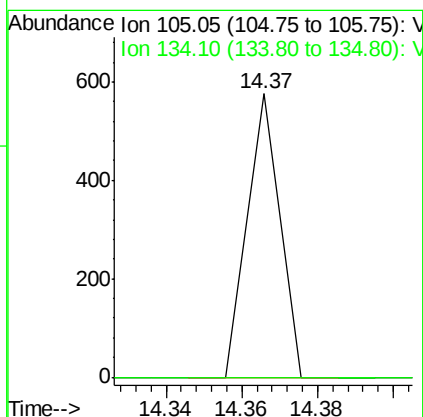
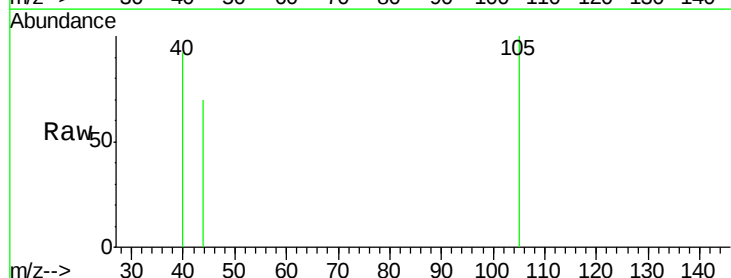
Instrument :
 MSVOA_D
 ClientSampleId :
 SOIL-ROLLOFFS

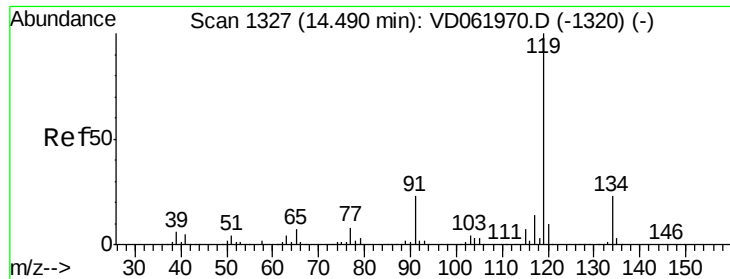
Tot Ion:105 Resp: 292
 Ion Ratio Lower Upper
 105 100
 120 0.0 23.1 69.2#



#85
 sec-Butylbenzene
 Concen: 2.260 ug/l
 RT: 14.37 min Scan# 1315
 Delta R.T. -0.00 min
 Lab File: VD062033.D
 Acq: 25 Apr 2019 12:29

Tgt Ion:105 Resp: 340
 Ion Ratio Lower Upper
 105 100
 134 0.0 8.9 26.7#

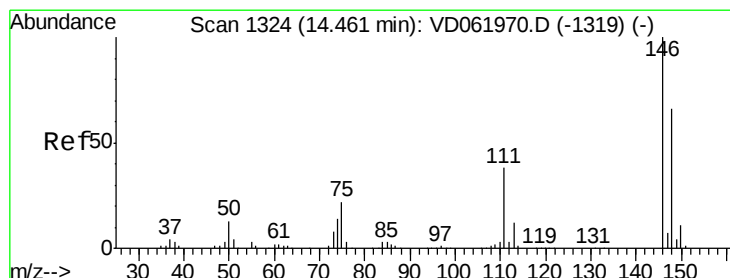
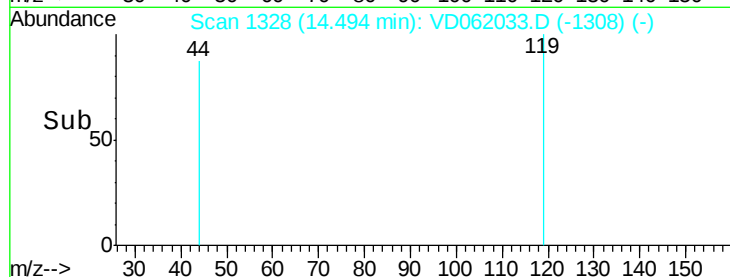
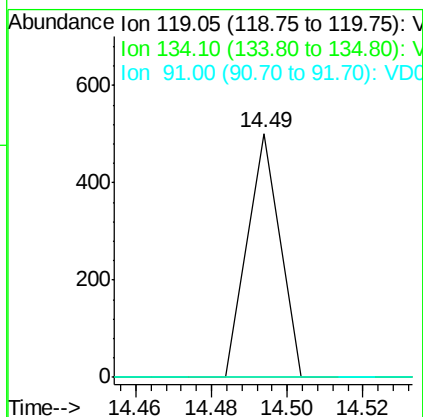
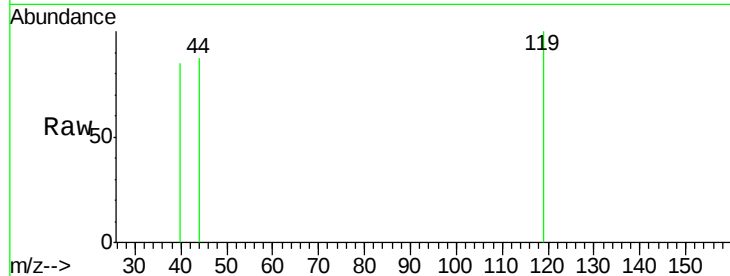




#86
 p-Isopropyltoluene
 Concen: 2.198 ug/l
 RT: 14.49 min Scan# 1328
 Delta R.T. -0.00 min
 Lab File: VD062033.D
 Acq: 25 Apr 2019 12:29

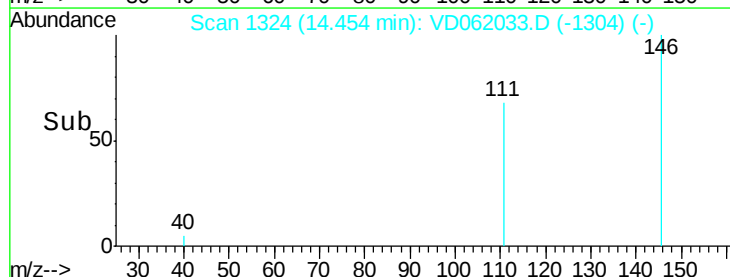
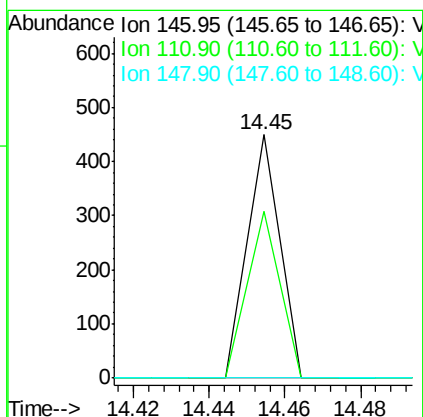
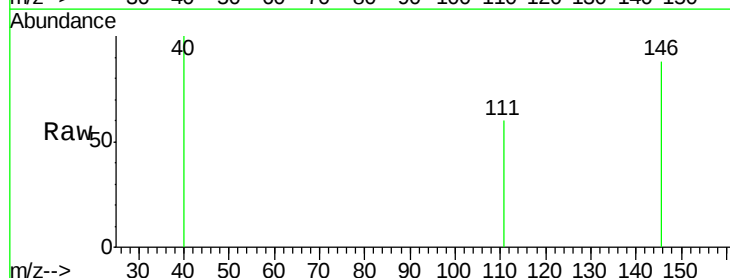
Instrument :
 MSVOA_D
 ClientSampleId :
 SOIL-ROLLOFFS

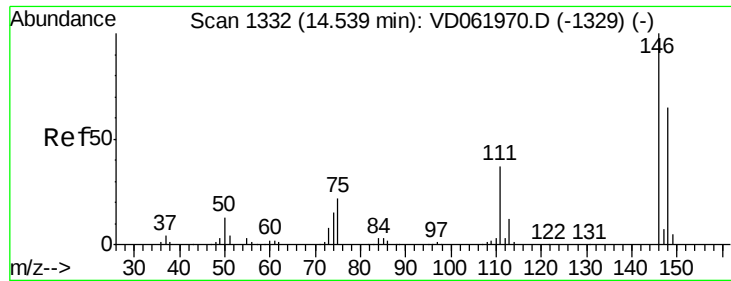
Tot Ion:119 Resp: 296
 Ion Ratio Lower Upper
 119 100
 134 0.0 12.8 38.3#
 91 0.0 10.7 32.1#



#87
 1,3-Dichlorobenzene
 Concen: 3.512 ug/l
 RT: 14.45 min Scan# 1324
 Delta R.T. -0.00 min
 Lab File: VD062033.D
 Acq: 25 Apr 2019 12:29

Tgt Ion:146 Resp: 266
 Ion Ratio Lower Upper
 146 100
 111 68.4 20.0 60.0#
 148 0.0 31.8 95.4#

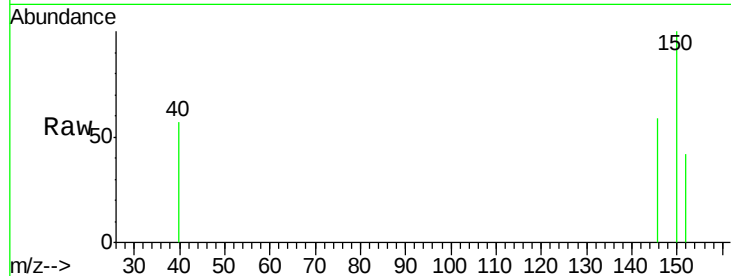




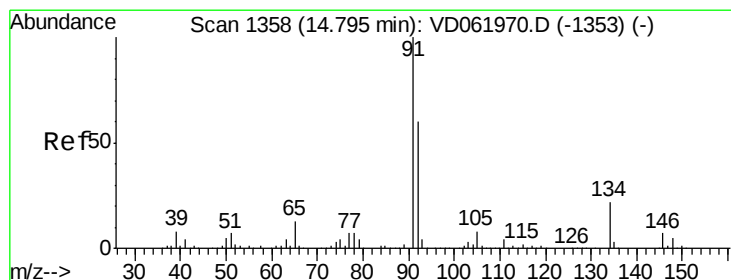
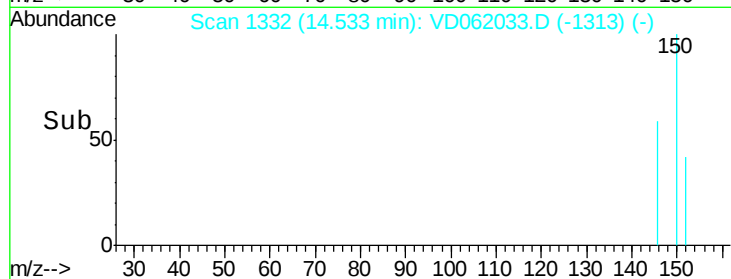
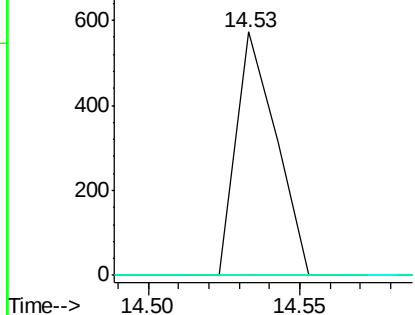
#88
 1,4-Dichlorobenzene
 Concen: 7.398 ug/l
 RT: 14.53 min Scan# 1332
 Delta R.T. -0.01 min
 Lab File: VD062033.D
 Acq: 25 Apr 2019 12:29

Instrument :
 MSVOA_D
 ClientSampleId :
 SOIL-ROLLOFFS

Tot Ion:146 Resp: 524
 Ion Ratio Lower Upper
 146 100
 111 0.0 20.2 60.5#
 148 0.0 32.0 96.2#

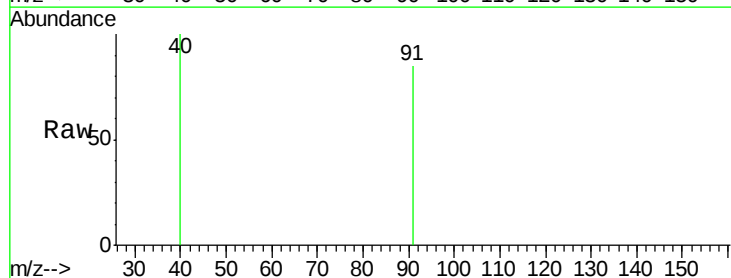


Abundance Ion 145.95 (145.65 to 146.65): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V

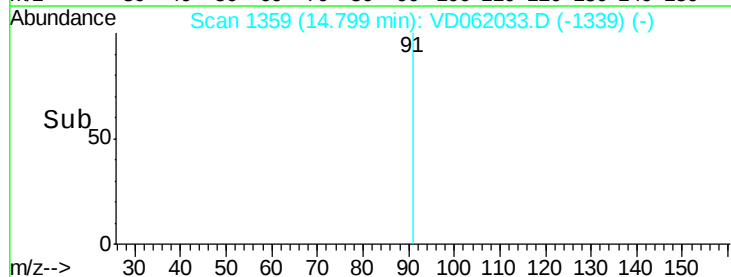
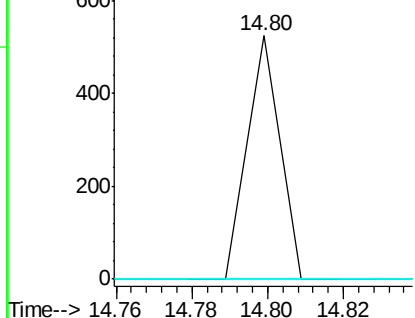


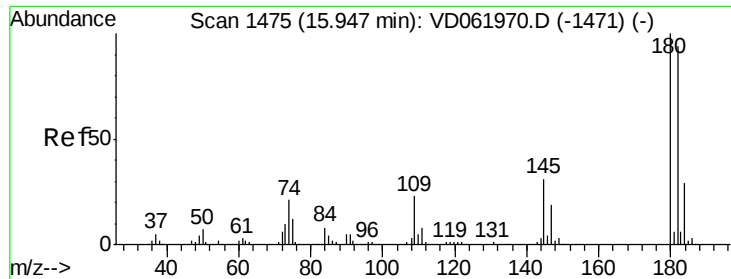
#89
 n-Butylbenzene
 Concen: 2.564 ug/l
 RT: 14.80 min Scan# 1359
 Delta R.T. -0.00 min
 Lab File: VD062033.D
 Acq: 25 Apr 2019 12:29

Tgt Ion: 91 Resp: 310
 Ion Ratio Lower Upper
 91 100
 92 0.0 30.3 91.0#
 134 0.0 14.5 43.6#



Abundance Ion 91.00 (90.70 to 91.70): V
 Ion 92.00 (91.70 to 92.70): V
 Ion 134.10 (133.80 to 134.80): V

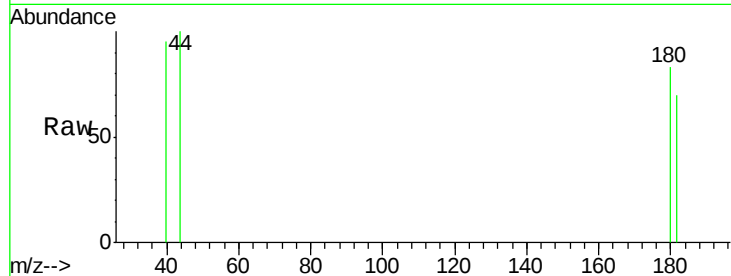




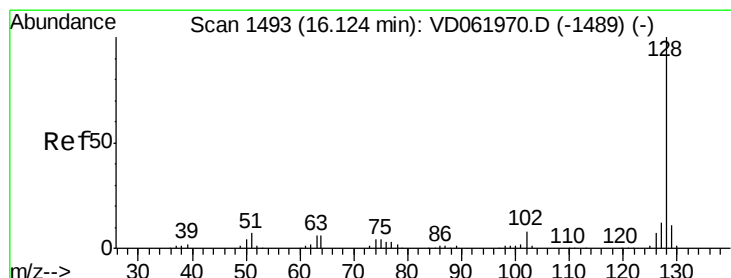
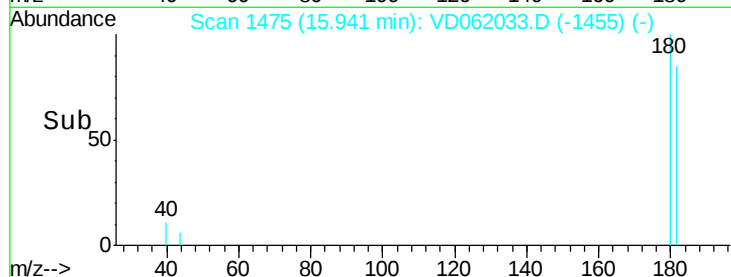
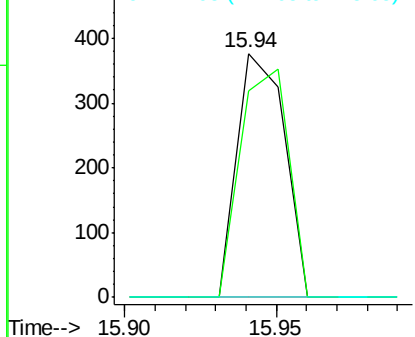
#93
 1,2,4-Trichlorobenzene
 Concen: 12.252 ug/l
 RT: 15.94 min Scan# 1475
 Delta R.T. -0.00 min
 Lab File: VD062033.D
 Acq: 25 Apr 2019 12:29

Instrument :
 MSVOA_D
 ClientSampleId :
 SOIL-ROLLOFFS

Tot Ion:180 Resp: 413
 Ion Ratio Lower Upper
 180 100
 182 84.8 49.3 147.8
 145 0.0 16.2 48.6#

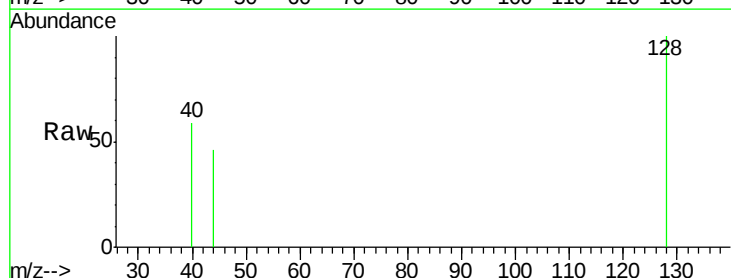


Abundance Ion 179.85 (179.55 to 180.55): V
 Ion 181.85 (181.55 to 182.55): V
 Ion 144.95 (144.65 to 145.65): V

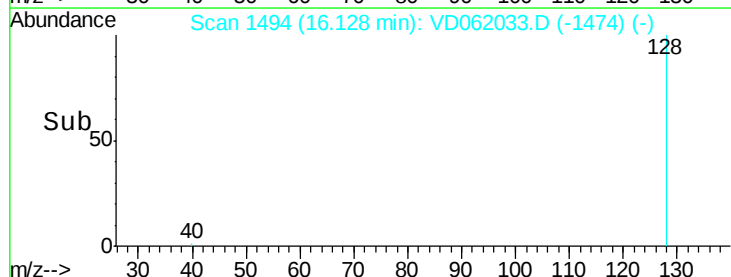
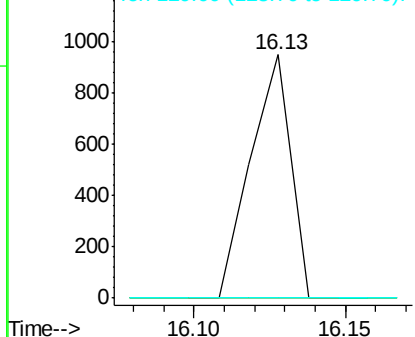


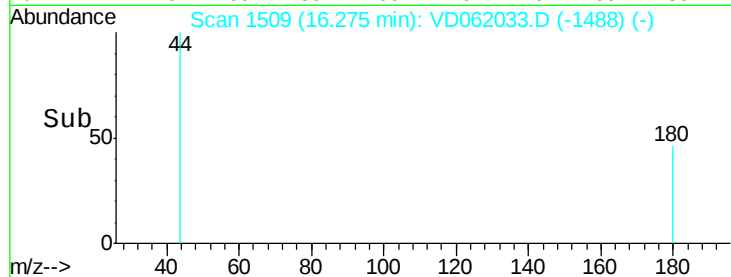
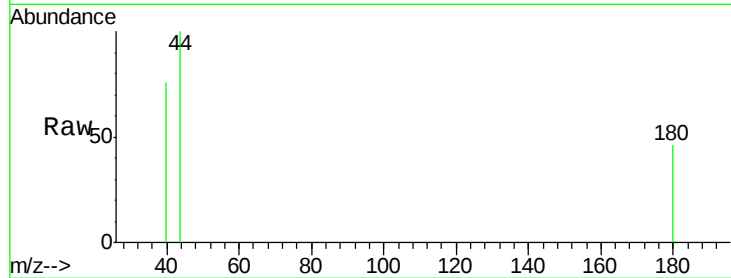
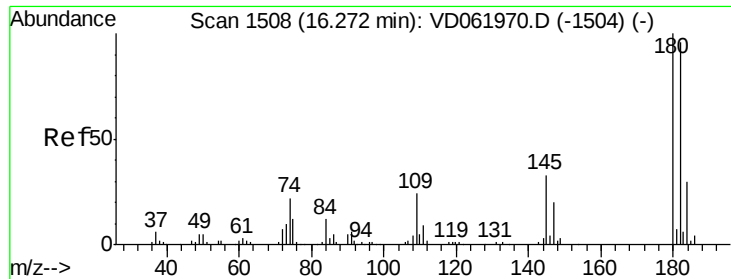
#95
 Naphthalene
 Concen: 15.967 ug/l
 RT: 16.13 min Scan# 1494
 Delta R.T. -0.00 min
 Lab File: VD062033.D
 Acq: 25 Apr 2019 12:29

Tgt Ion:128 Resp: 869
 Ion Ratio Lower Upper
 128 100
 127 0.0 9.8 14.8#
 129 0.0 8.8 13.2#



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





#96

1,2,3-Trichlorobenzene

Concen: 9.778 ug/l

RT: 16.28 min Scan# 1509

Delta R.T. 0.01 min

Lab File: VD062033.D

Acq: 25 Apr 2019 12:29

Instrument :

MSVOA_D

ClientSampleId :

SOIL-ROLLOFFS

Tot Ion:180 Resp: 187

Ion Ratio Lower Upper

180 100

182 0.0 47.0 141.0#

145 0.0 17.0 51.0#

Abundance Ion 179.85 (179.55 to 180.55): V

Ion 181.85 (181.55 to 182.55): V

Ion 144.95 (144.65 to 145.65): V

Time-->

16.24 16.26 16.28 16.30

16.28

300

200

100

0