

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD112519\
 Data File : VD064369.D
 Acq On : 25 Nov 2019 19:23
 Operator : VA/SY
 Sample : K6021-04
 Misc : 5.10G/5.00ml/MSVOA D/SOIL
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 SOIL-002-E

Quant Time: Nov 26 05:37:38 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D110819S.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 12 02:43:24 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.98	168	10399	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.86	114	16632	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	14337	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	7503	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.33	65	6097	71.29	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	142.58%	
35) Dibromofluoromethane	7.91	113	4725	49.49	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	98.98%	
50) Toluene-d8	10.34	98	18938	52.58	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	105.16%	
62) 4-Bromofluorobenzene	12.63	95	6363	51.02	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	102.04%	

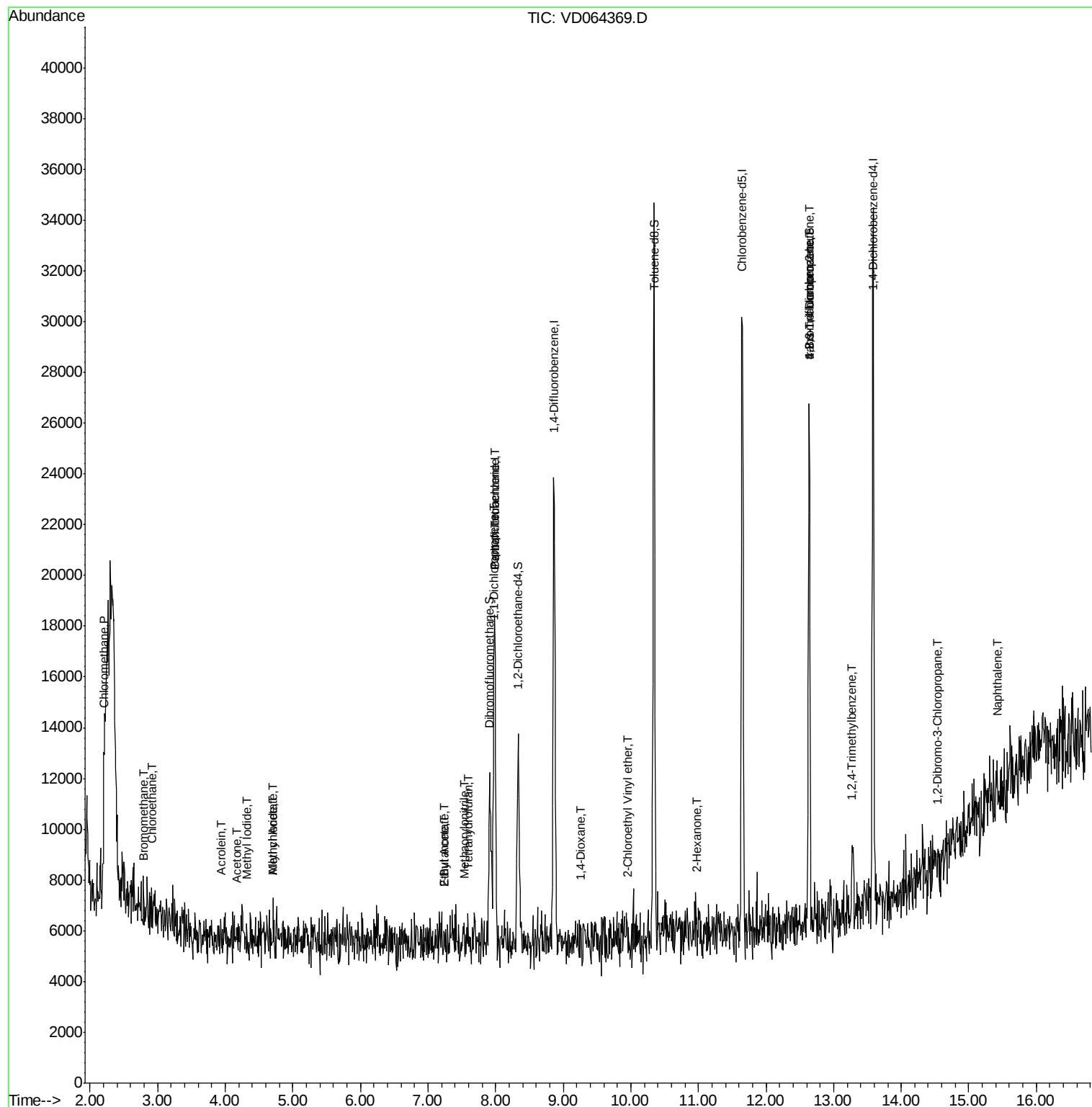
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.20	50	146	1.578	ug/l #	77
5) Bromomethane	2.80	94	78	1.249	ug/l	100
6) Chloroethane	2.91	64	92	1.455	ug/l #	43
10) Methyl Iodide	4.31	142	97	2.921	ug/l #	41
13) Acrolein	3.94	56	56	11.081	ug/l #	15
14) Allyl chloride	4.70	41	182	1.178	ug/l #	46
16) Acetone	4.18	43	64	3.159	ug/l #	45
18) Methyl Acetate	4.70	43	60	1.060	ug/l #	53
25) 2-Butanone	7.23	43	67	2.560	ug/l #	49
29) Tetrahydrofuran	7.59	42	119	7.567	ug/l #	35
36) 1,1-Dichloropropene	7.97	75	884	5.759	ug/l #	41
37) Ethyl Acetate	7.23	43	67	1.035	ug/l #	70
38) Carbon Tetrachloride	7.98	117	1246	7.586	ug/l #	12
41) Methacrylonitrile	7.53	41	74	1.819	ug/l #	1
49) 1,4-Dioxane	9.26	88	61	92.914	ug/l #	1
58) 2-Chloroethyl Vinyl ether	9.96	63	109	2.594	ug/l #	45
59) 2-Hexanone	10.97	43	115	2.528	ug/l #	26
76) 1,2,3-Trichloropropane	12.64	75	3162	52.321	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.64	75	3162	103.930	ug/l #	11
84) 1,2,4-Trimethylbenzene	13.27	105	1611	3.606	ug/l	86
92) 1,2-Dibromo-3-Chloropropan	14.54	75	54	3.640	ug/l #	1
95) Naphthalene	15.42	128	593	2.231	ug/l #	81

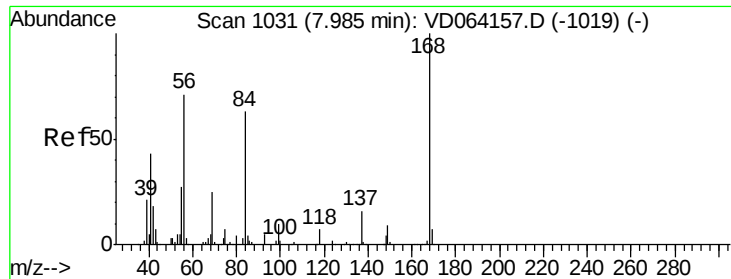
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD112519\
Data File : VD064369.D
Acq On : 25 Nov 2019 19:23
Operator : VA/SY
Sample : K6021-04
Misc : 5.10G/5.00ml/MSVOA D/SOIL
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_D
ClientSampleId :
SOIL-002-E

Quant Time: Nov 26 05:37:38 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_D\METHOD\82D110819S.M
Quant Title : SW846 8260
QLast Update : Tue Nov 12 02:43:24 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. -0.00 min

Lab File: VD064369.D

Acq: 25 Nov 2019 19:23

Instrument :

MSVOA_D

ClientSampleId :

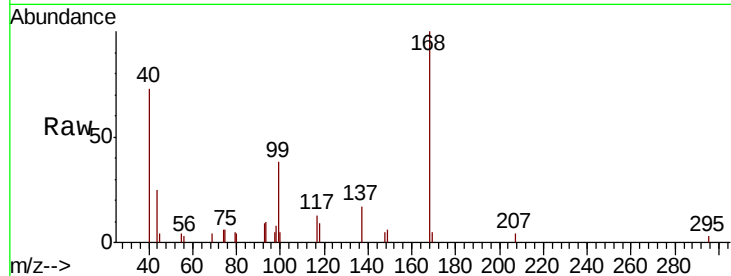
SOIL-002-E

Tot Ion:168 Resp: 10399

Ion Ratio Lower Upper

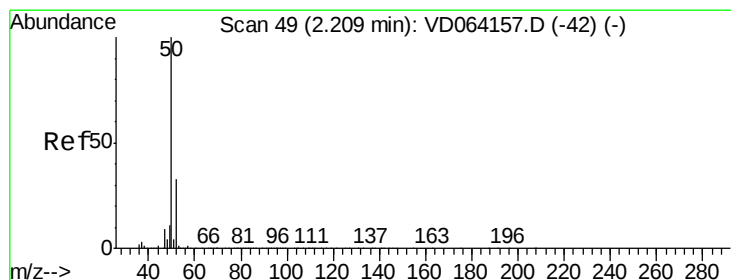
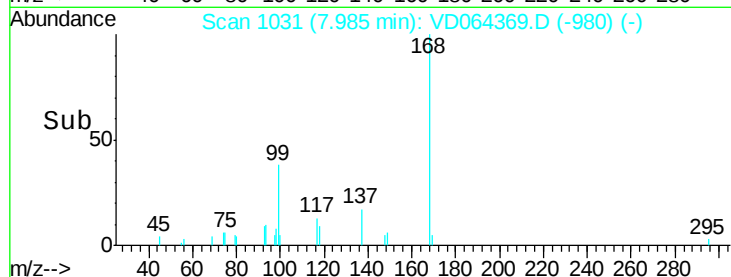
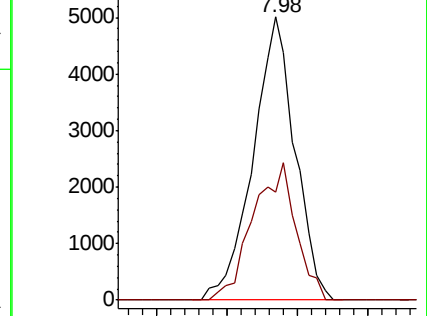
168 100

99 38.2 41.6 62.4#



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC



#3

Chloromethane

Concen: 1.578 ug/l

RT: 2.20 min Scan# 48

Delta R.T. -0.01 min

Lab File: VD064369.D

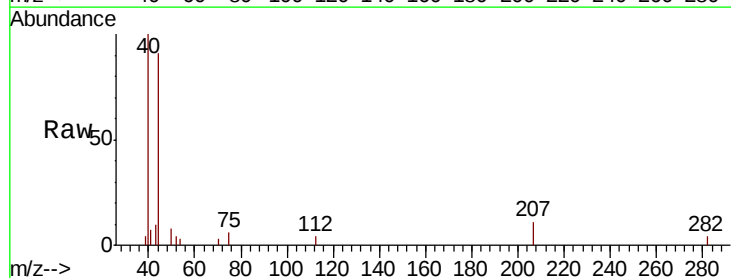
Acq: 25 Nov 2019 19:23

Tgt Ion: 50 Resp: 146

Ion Ratio Lower Upper

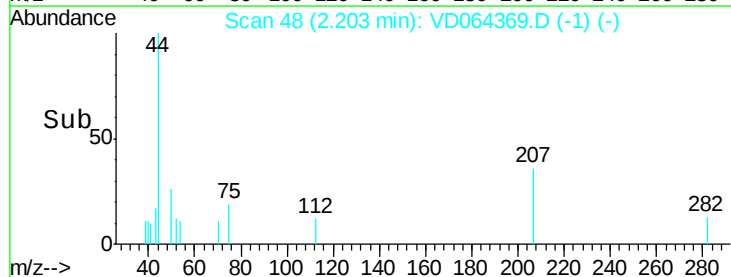
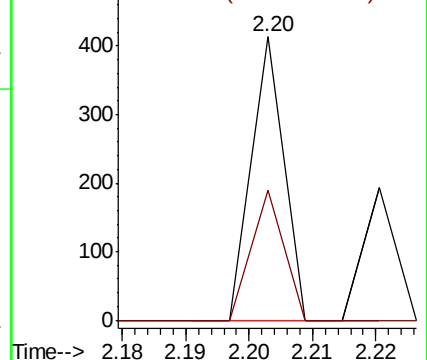
50 100

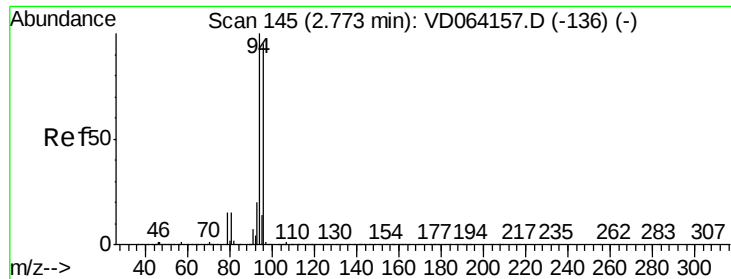
52 45.8 26.2 39.4#



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC





#5

Bromomethane

Concen: 1.249 ug/l

RT: 2.80 min Scan# 150

Delta R.T. 0.03 min

Lab File: VD064369.D

Acq: 25 Nov 2019 19:23

Instrument :

MSVOA_D

ClientSampleId :

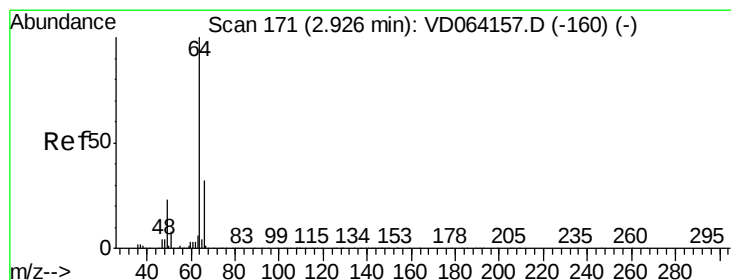
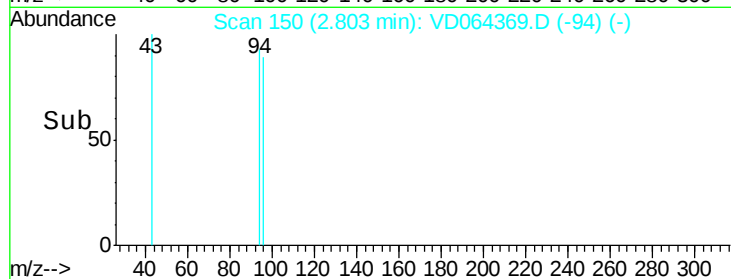
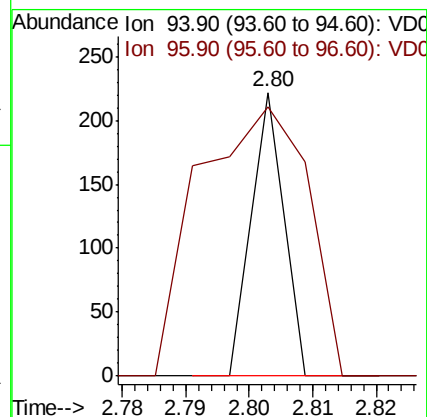
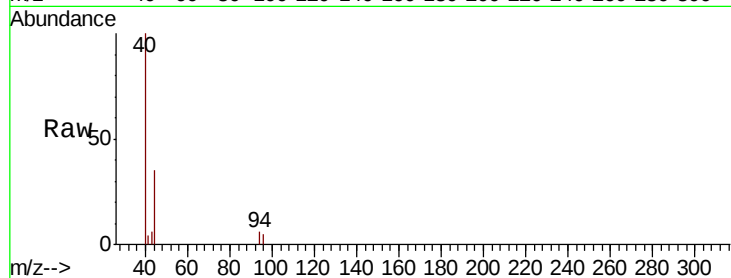
SOIL-002-E

Tot Ion: 94 Resp: 78

Ion Ratio Lower Upper

94 100

96 95.0 76.2 114.4



#6

Chloroethane

Concen: 1.455 ug/l

RT: 2.91 min Scan# 169

Delta R.T. -0.01 min

Lab File: VD064369.D

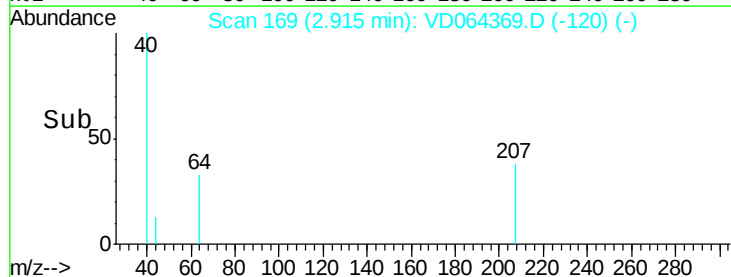
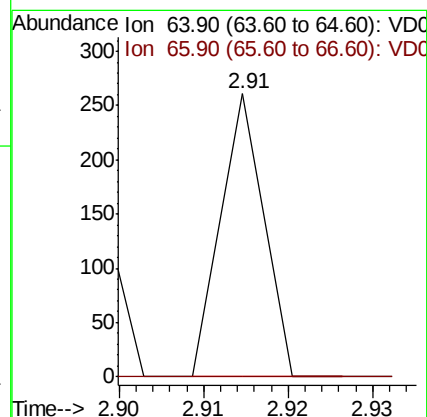
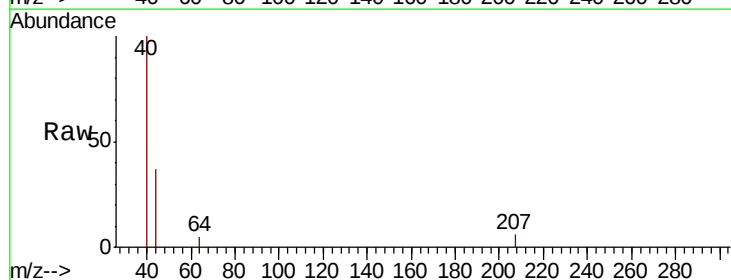
Acq: 25 Nov 2019 19:23

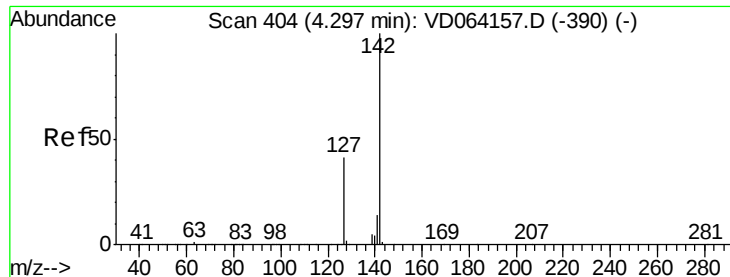
Tgt Ion: 64 Resp: 92

Ion Ratio Lower Upper

64 100

66 0.0 25.5 38.3#





#10

Methyl Iodide

Concen: 2.921 ug/l

RT: 4.31 min Scan# 407

Delta R.T. 0.02 min

Lab File: VD064369.D

Acq: 25 Nov 2019 19:23

Instrument :

MSVOA_D

ClientSampleId :

SOIL-002-E

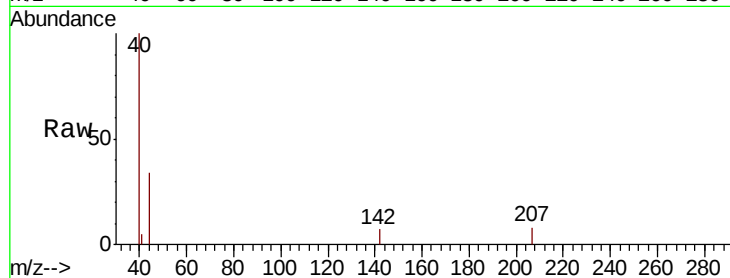
Tot Ion:142 Resp: 97

Ion Ratio Lower Upper

142 100

127 0.0 34.4 51.6#

141 0.0 11.2 16.8#



Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

300

200

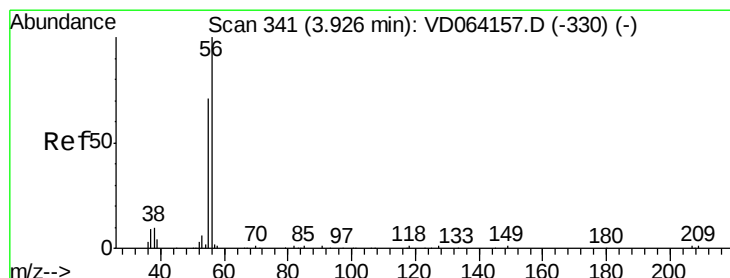
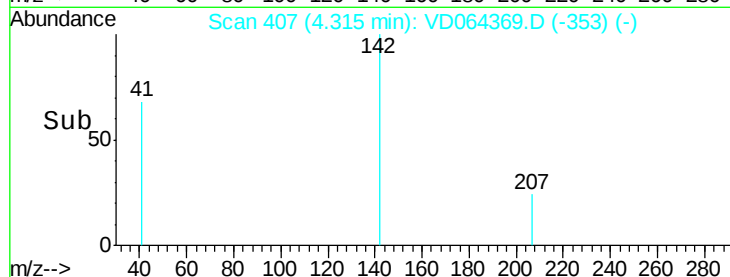
100

0

4.31

4.30 4.31 4.32 4.33

Time-->



#13

Acrolein

Concen: 11.081 ug/l

RT: 3.94 min Scan# 343

Delta R.T. 0.01 min

Lab File: VD064369.D

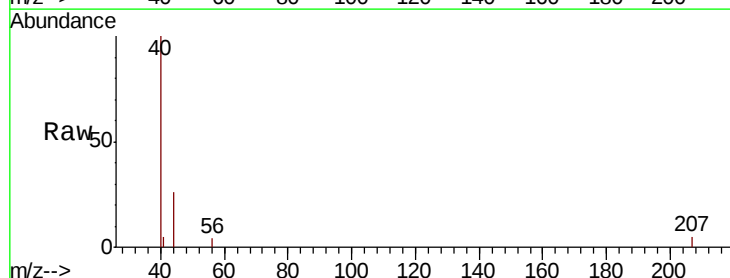
Acq: 25 Nov 2019 19:23

Tgt Ion: 56 Resp: 56

Ion Ratio Lower Upper

56 100

55 0.0 56.1 84.1#



Abundance Ion 56.00 (55.70 to 56.70): V

Ion 55.00 (54.70 to 55.70): V

150

100

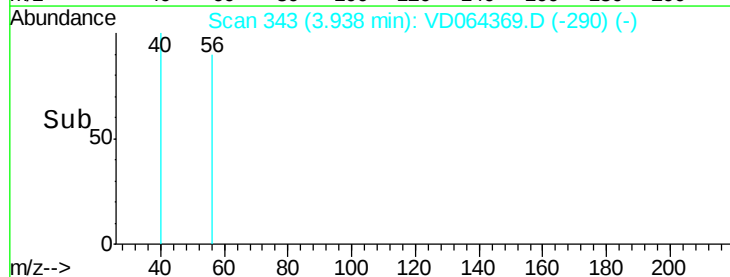
50

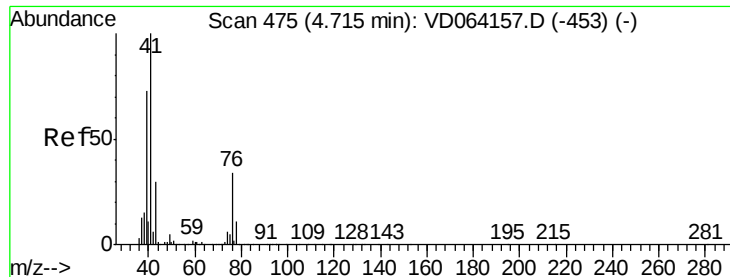
0

3.94

3.92 3.93 3.94 3.95

Time-->

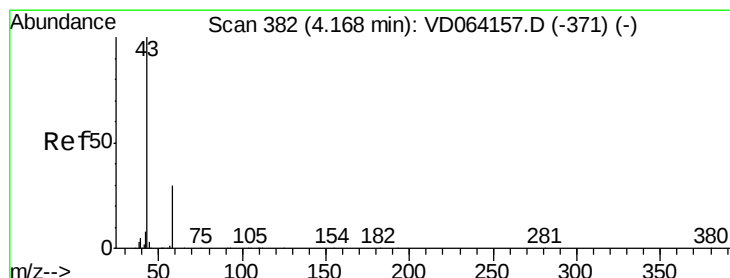
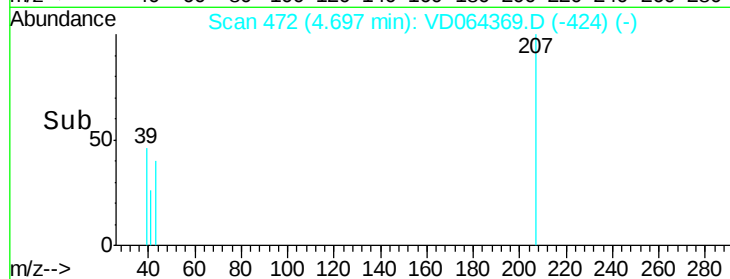
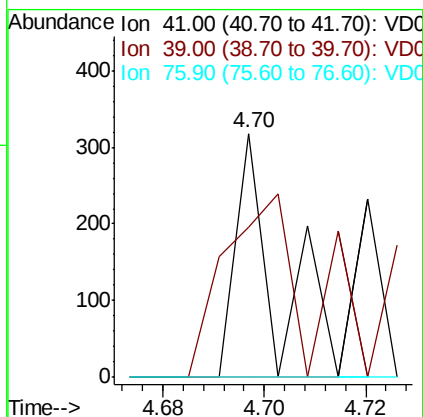
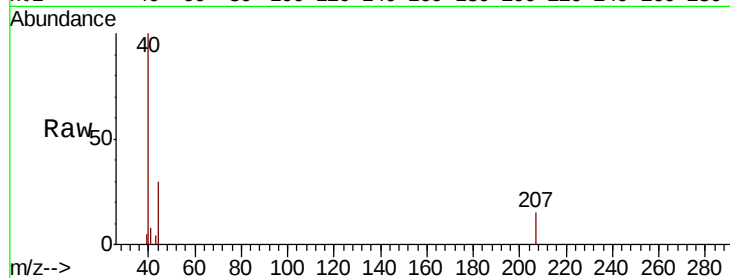




#14
Allvl chloride
Concen: 1.178 ug/l
RT: 4.70 min Scan# 472
Delta R.T. -0.02 min
Lab File: VD064369.D
Acq: 25 Nov 2019 19:23

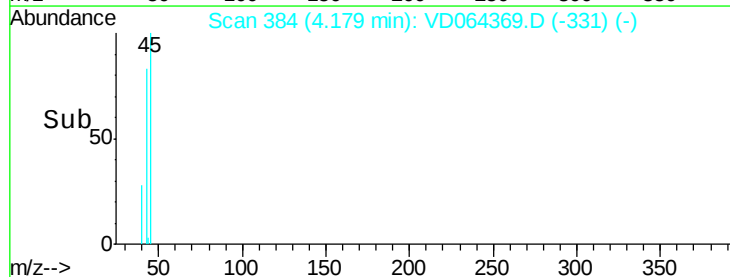
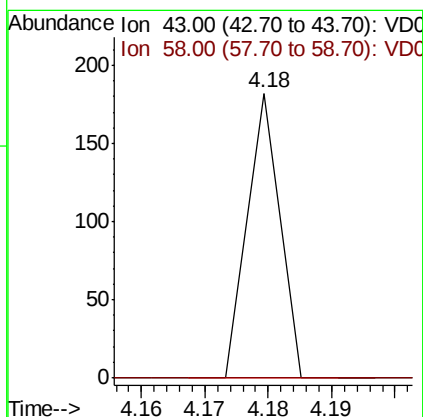
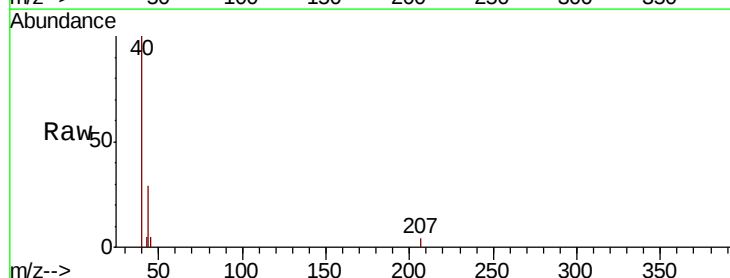
Instrument :
MSVOA_D
ClientSampleId :
SOIL-002-E

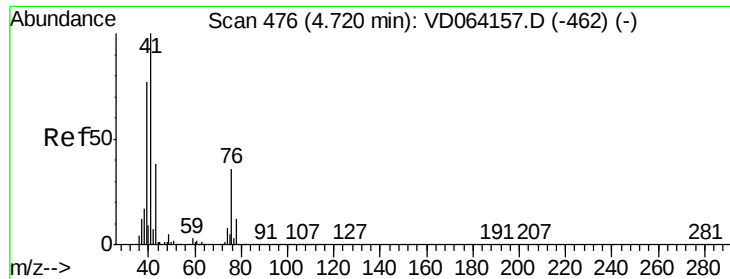
Tot Ion: 41 Resp: 182
Ion Ratio Lower Upper
41 100
39 114.8 57.5 86.3#
76 0.0 26.8 40.2#



#16
Acetone
Concen: 3.159 ug/l
RT: 4.18 min Scan# 384
Delta R.T. 0.01 min
Lab File: VD064369.D
Acq: 25 Nov 2019 19:23

Tgt Ion: 43 Resp: 64
Ion Ratio Lower Upper
43 100
58 0.0 24.1 36.1#

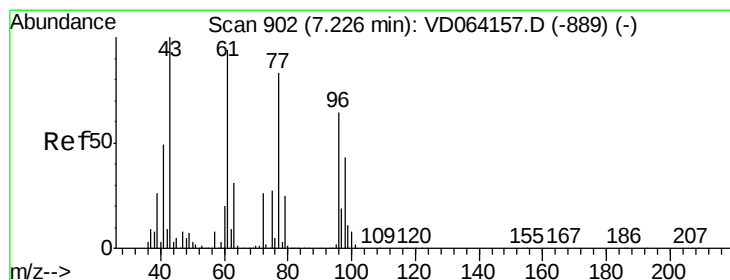
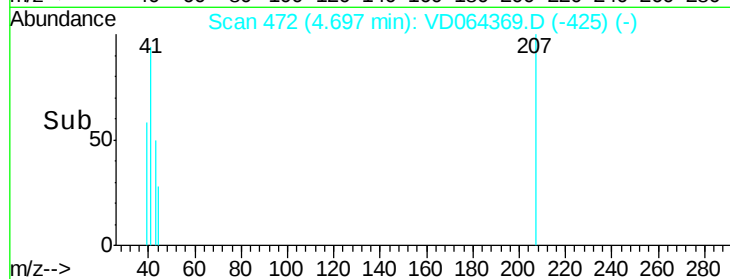
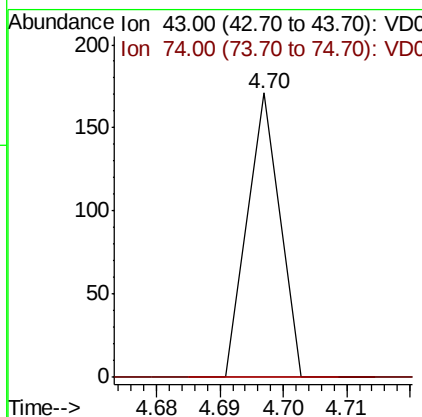
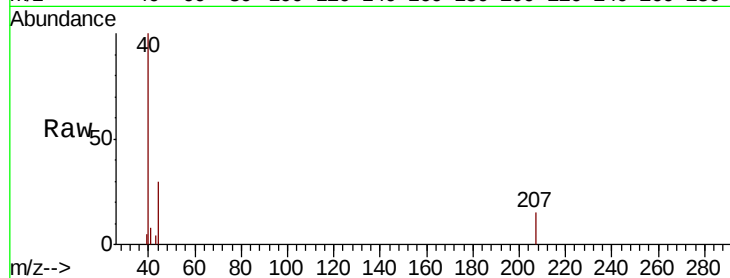




#18
Methyl Acetate
Concen: 1.060 ug/l
RT: 4.70 min Scan# 472
Delta R.T. -0.02 min
Lab File: VD064369.D
Acq: 25 Nov 2019 19:23

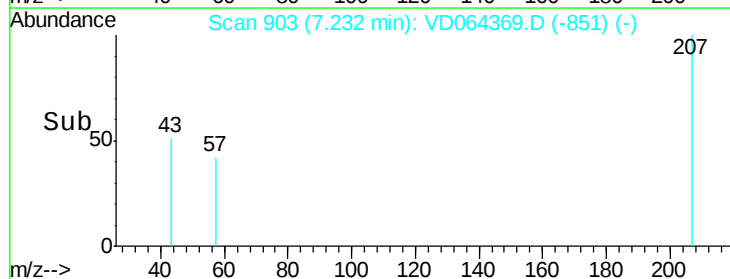
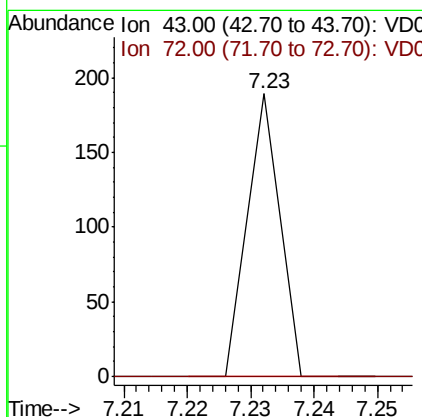
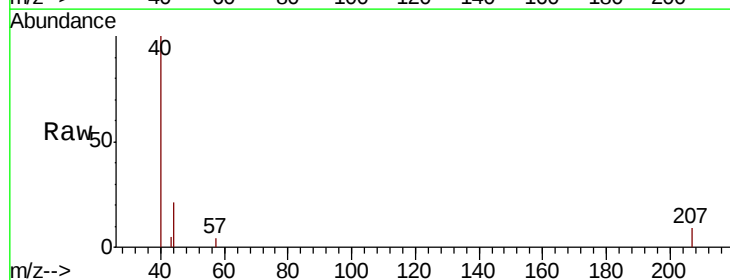
Instrument :
MSVOA_D
ClientSampleID :
SOIL-002-E

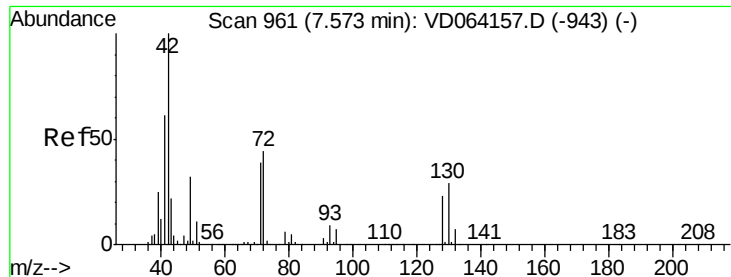
Tot Ion: 43 Resp: 60
Ion Ratio Lower Upper
43 100
74 0.0 18.4 27.6#



#25
2-Butanone
Concen: 2.560 ug/l
RT: 7.23 min Scan# 903
Delta R.T. 0.01 min
Lab File: VD064369.D
Acq: 25 Nov 2019 19:23

Tgt Ion: 43 Resp: 67
Ion Ratio Lower Upper
43 100
72 0.0 20.6 30.8#

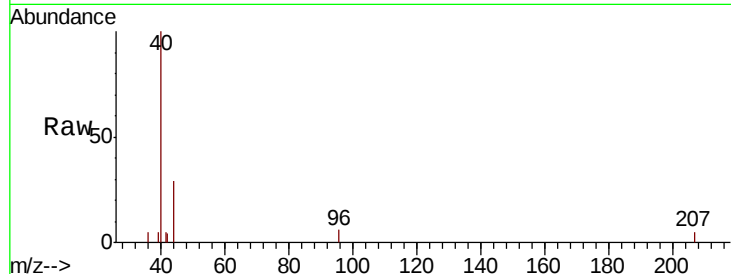




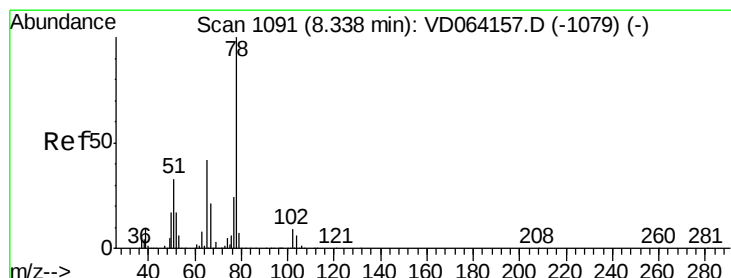
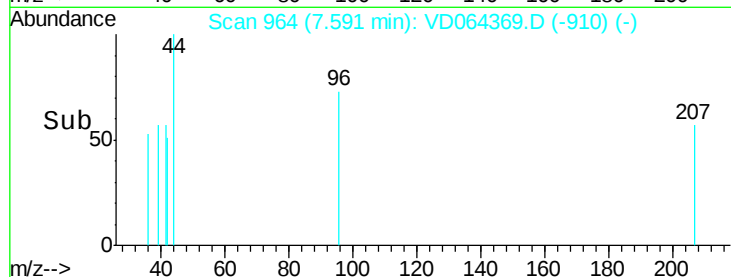
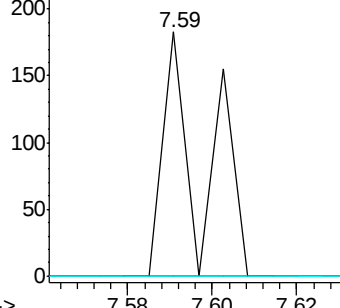
#29
Tetrahydrofuran
Concen: 7.567 ug/l
RT: 7.59 min Scan# 964
Delta R.T. 0.02 min
Lab File: VD064369.D
Acq: 25 Nov 2019 19:23

Instrument :
MSVOA_D
ClientSampleID :
SOIL-002-E

Tot Ion: 42 Resp: 119
Ion Ratio Lower Upper
42 100
72 0.0 33.4 50.2#
71 0.0 31.0 46.4#

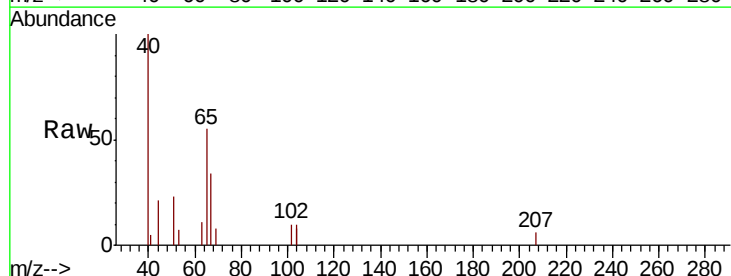


Abundance Ion 42.00 (41.70 to 42.70): VDC
Ion 72.00 (71.70 to 72.70): VDC
Ion 71.00 (70.70 to 71.70): VDC

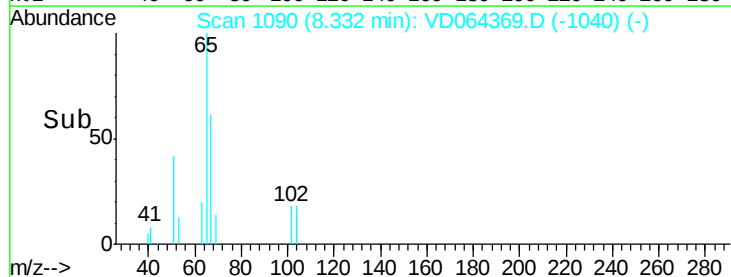
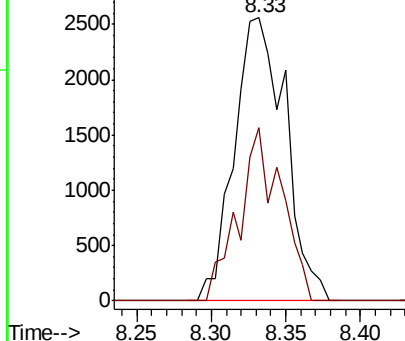


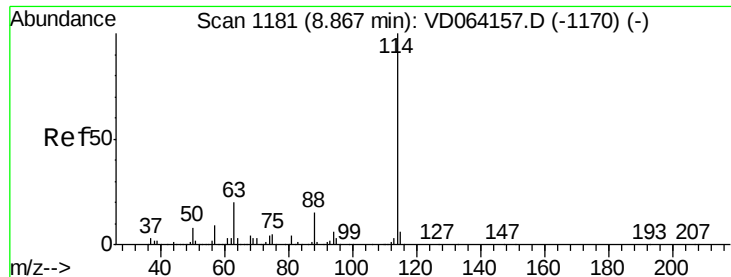
#33
1,2-Dichloroethane-d4
Concen: 71.289 ug/l
RT: 8.33 min Scan# 1090
Delta R.T. -0.01 min
Lab File: VD064369.D
Acq: 25 Nov 2019 19:23

Tgt Ion: 65 Resp: 6097
Ion Ratio Lower Upper
65 100
67 51.1 0.0 104.4



Abundance Ion 64.90 (64.60 to 65.60): VDC
Ion 66.90 (66.60 to 67.60): VDC

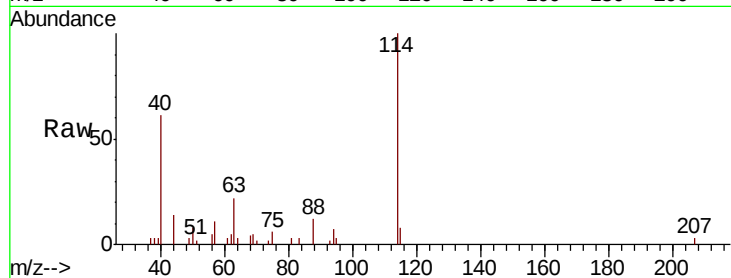




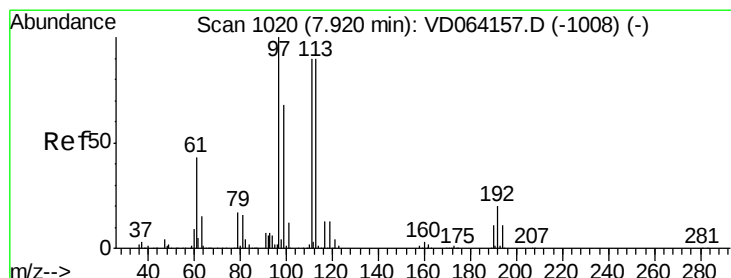
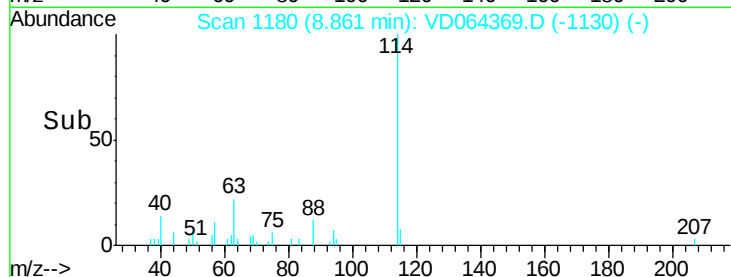
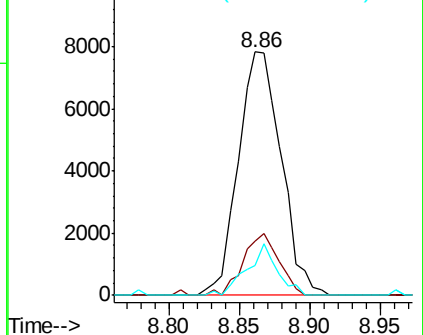
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.86 min Scan# 1180
 Delta R.T. -0.01 min
 Lab File: VD064369.D
 Acq: 25 Nov 2019 19:23

Instrument :
 MSVOA_D
 ClientSampleId :
 SOIL-002-E

Tot Ion:114 Resp: 16632
 Ion Ratio Lower Upper
 114 100
 63 22.2 0.0 40.0
 88 12.2 0.0 30.2

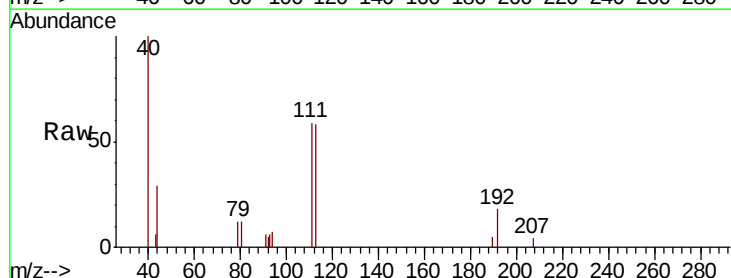


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VDC
 Ion 87.90 (87.60 to 88.60): VDC

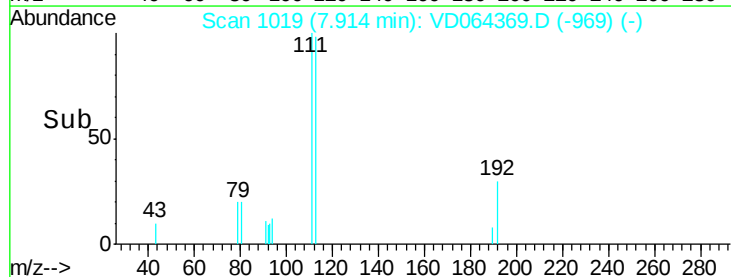
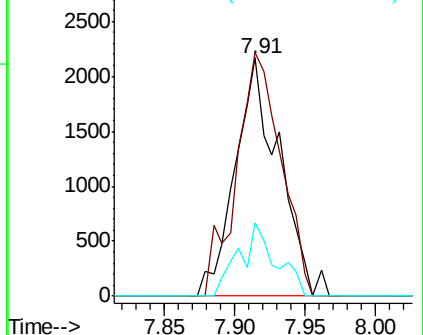


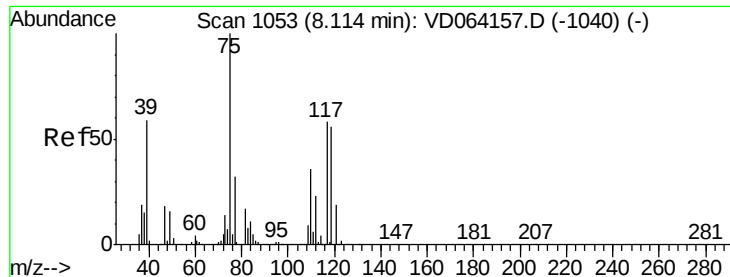
#35
 Dibromofluoromethane
 Concen: 49.492 ug/l
 RT: 7.91 min Scan# 1019
 Delta R.T. -0.01 min
 Lab File: VD064369.D
 Acq: 25 Nov 2019 19:23

Tgt Ion:113 Resp: 4725
 Ion Ratio Lower Upper
 113 100
 111 103.8 81.5 122.3
 192 25.5 18.8 28.2



Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 5.759 ug/l

RT: 7.97 min Scan# 1028

Delta R.T. -0.15 min

Lab File: VD064369.D

Acq: 25 Nov 2019 19:23

Instrument :

MSVOA_D

ClientSampleId :

SOIL-002-E

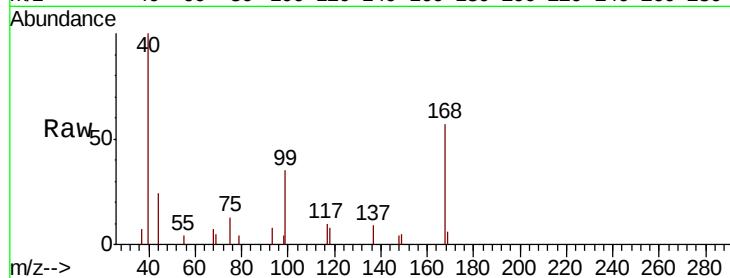
Tot Ion: 75 Resp: 884

Ion Ratio Lower Upper

75 100

110 0.0 18.3 54.9#

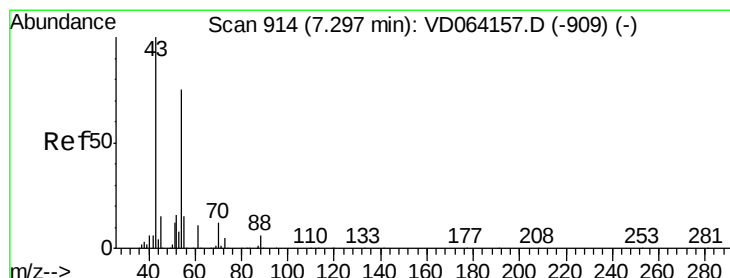
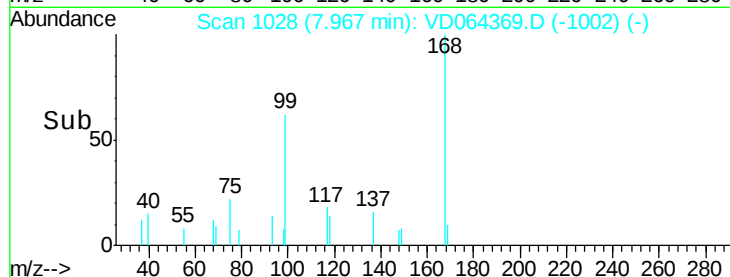
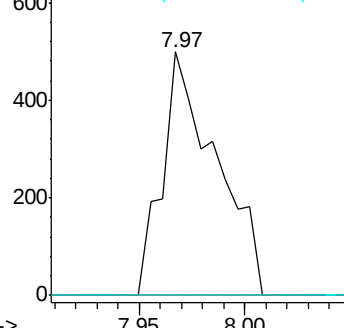
77 0.0 25.0 37.6#



Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 109.90 (109.60 to 110.60): VDC

Ion 76.90 (76.60 to 77.60): VDC



#37

Ethyl Acetate

Concen: 1.035 ug/l

RT: 7.23 min Scan# 903

Delta R.T. -0.06 min

Lab File: VD064369.D

Acq: 25 Nov 2019 19:23

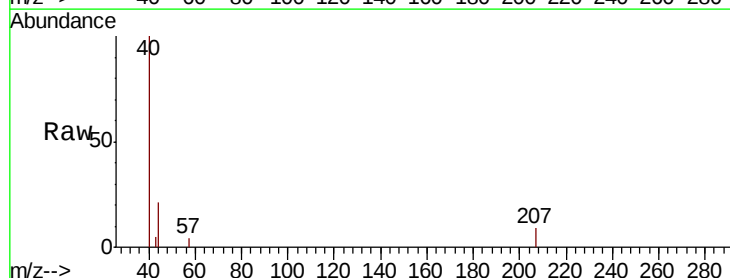
Tgt Ion: 43 Resp: 67

Ion Ratio Lower Upper

43 100

61 0.0 10.2 15.2#

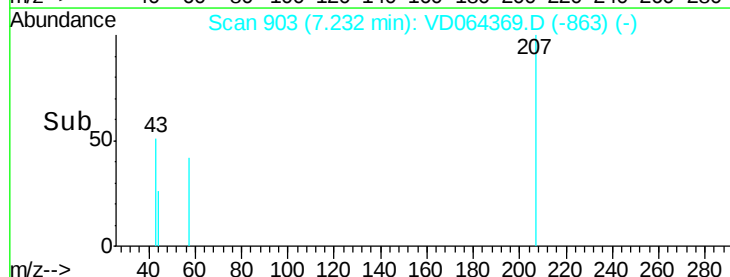
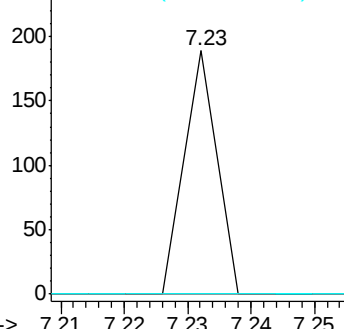
70 0.0 8.5 12.7#

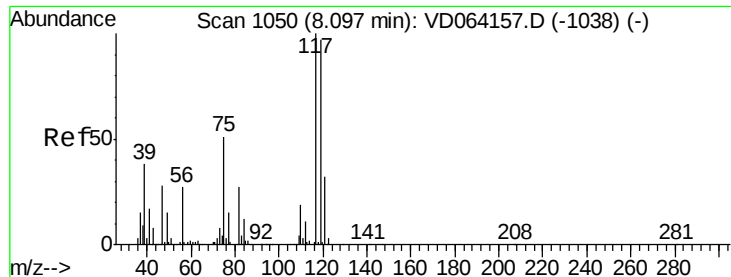


Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 60.90 (60.60 to 61.60): VDC

Ion 70.00 (69.70 to 70.70): VDC

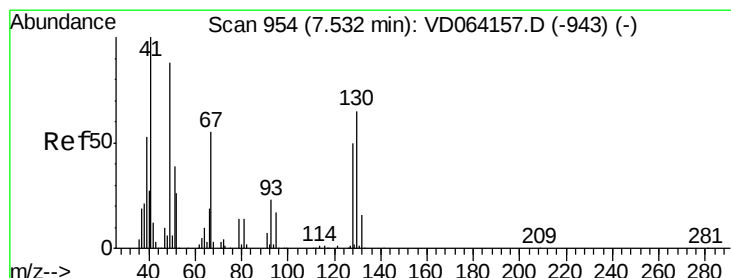
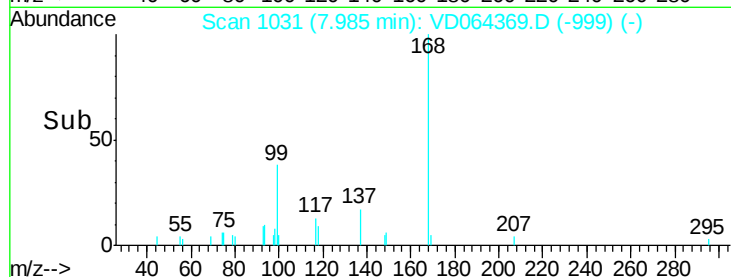
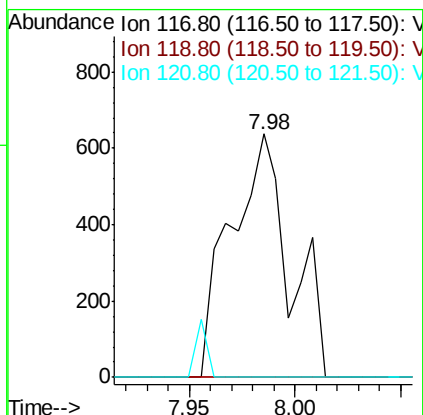
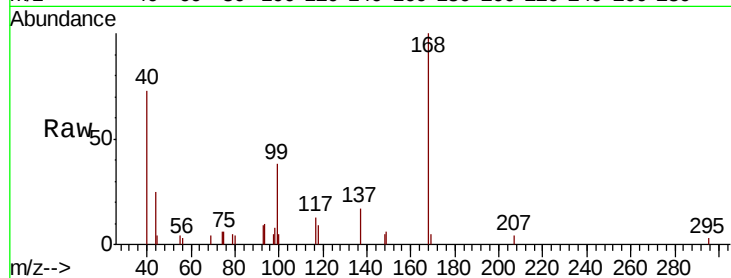




#38
Carbon Tetrachloride
Concen: 7.586 ug/l
RT: 7.98 min Scan# 1031
Delta R.T. -0.11 min
Lab File: VD064369.D
Acq: 25 Nov 2019 19:23

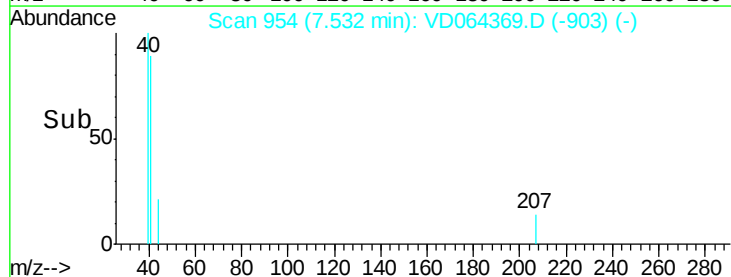
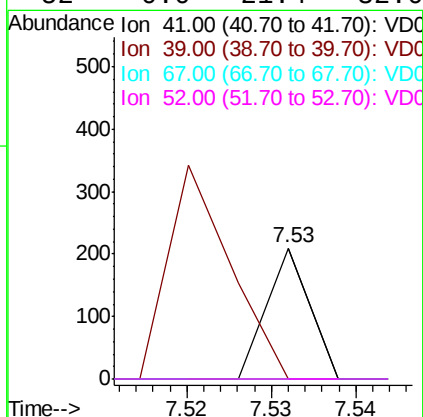
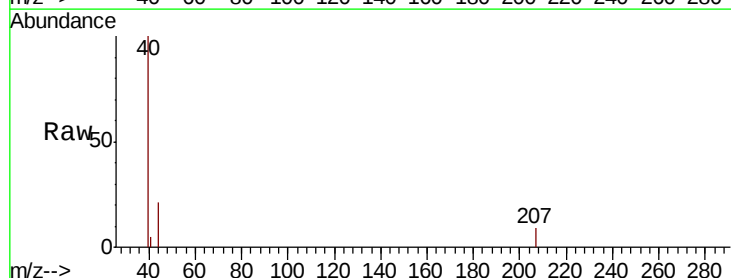
Instrument :
MSVOA_D
ClientSampleId :
SOIL-002-E

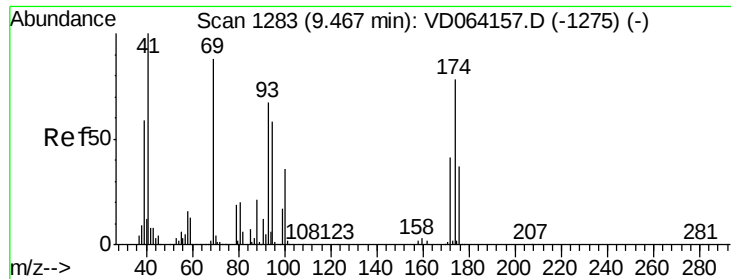
Tot Ion:117 Resp: 1246
Ion Ratio Lower Upper
117 100
119 0.0 77.2 115.8#
121 0.0 25.5 38.3#



#41
Methacrylonitrile
Concen: 1.819 ug/l
RT: 7.53 min Scan# 954
Delta R.T. -0.00 min
Lab File: VD064369.D
Acq: 25 Nov 2019 19:23

Tgt Ion: 41 Resp: 74
Ion Ratio Lower Upper
41 100
39 236.5 49.4 74.2#
67 0.0 49.6 74.4#
52 0.0 21.4 32.0#





#49

1,4-Dioxane

Concen: 92.914 ug/l

RT: 9.26 min Scan# 1248

Delta R.T. -0.21 min

Lab File: VD064369.D

Acq: 25 Nov 2019 19:23

Instrument :

MSVOA_D

ClientSampleId :

SOIL-002-E

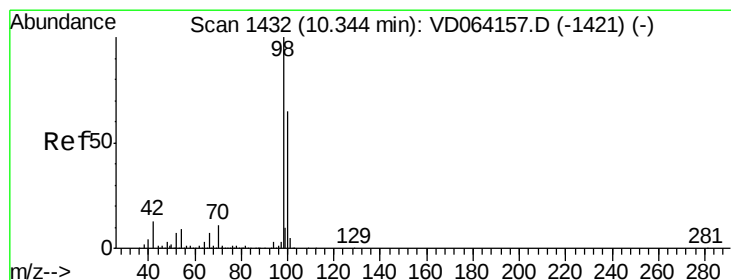
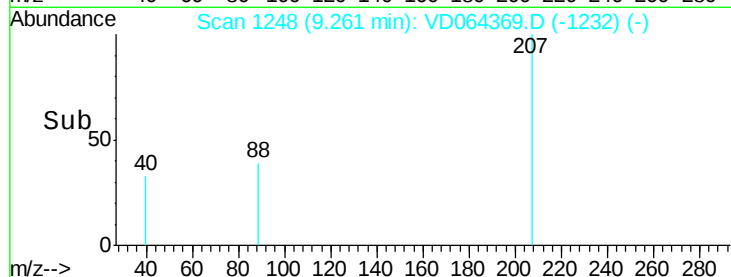
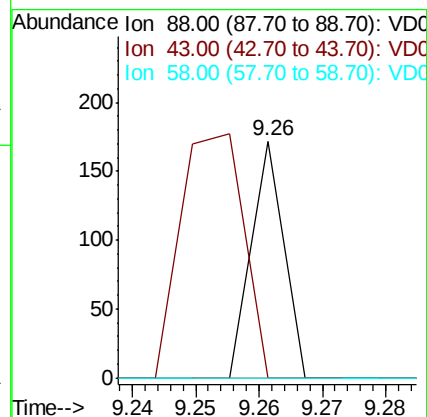
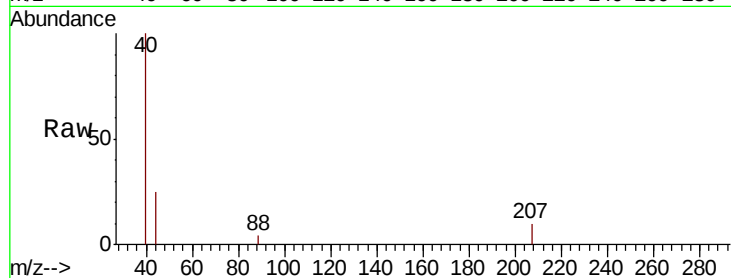
Tot Ion: 88 Resp: 61

Ion Ratio Lower Upper

88 100

43 200.0 29.8 44.8#

58 0.0 58.1 87.1#



#50

Toluene-d8

Concen: 52.583 ug/l

RT: 10.34 min Scan# 1432

Delta R.T. -0.00 min

Lab File: VD064369.D

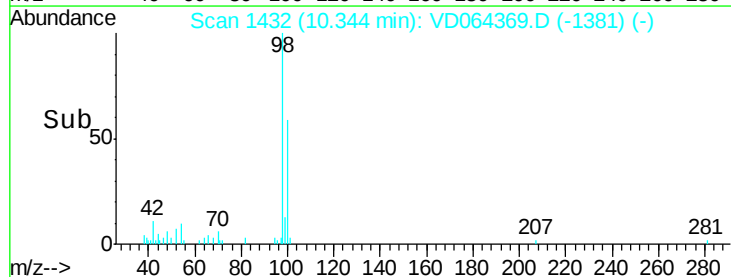
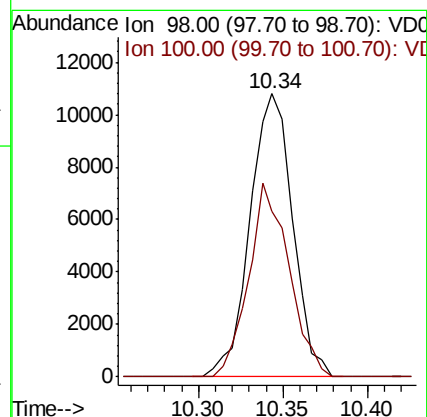
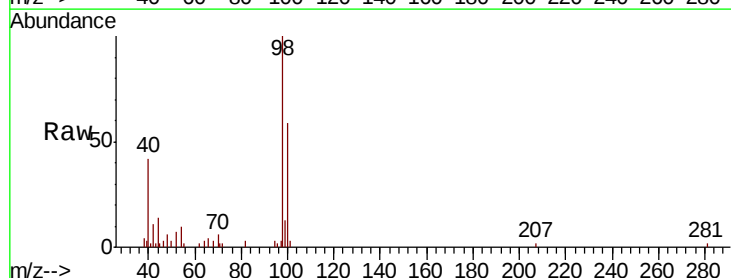
Acq: 25 Nov 2019 19:23

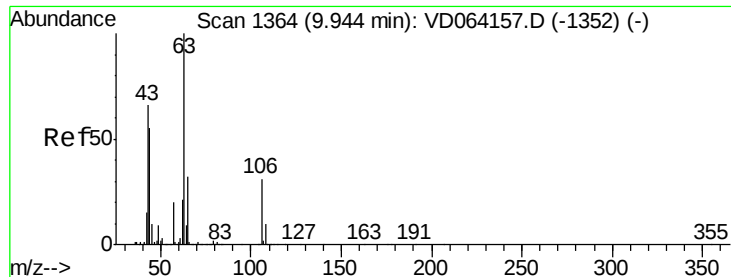
Tgt Ion: 98 Resp: 18938

Ion Ratio Lower Upper

98 100

100 64.9 52.6 78.8

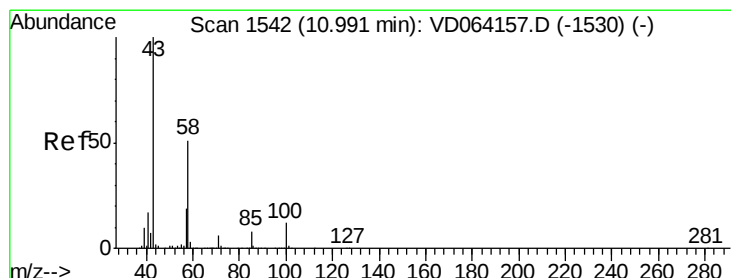
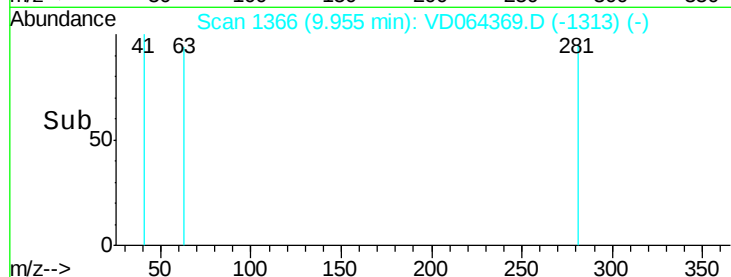
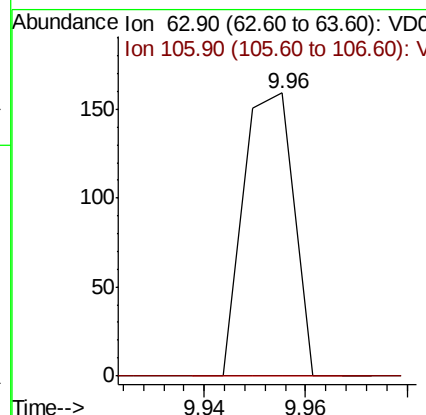
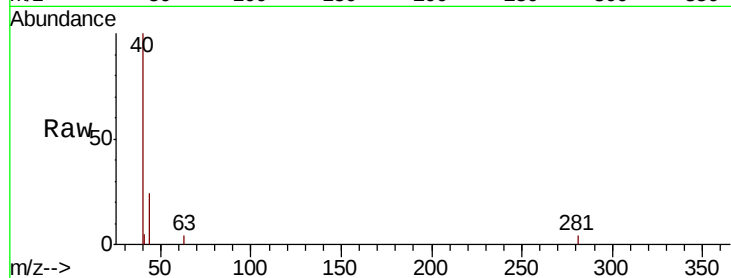




#58
 2-Chloroethyl Vinyl ether
 Concen: 2.594 ug/l
 RT: 9.96 min Scan# 1366
 Delta R.T. 0.01 min
 Lab File: VD064369.D
 Acq: 25 Nov 2019 19:23

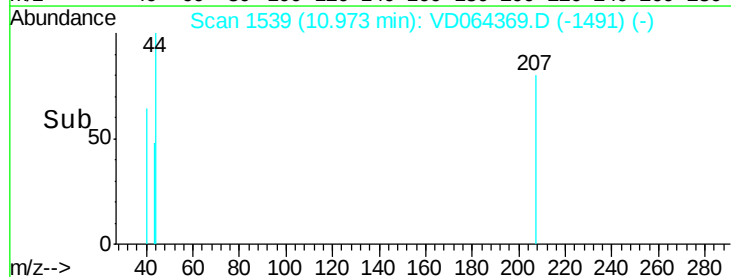
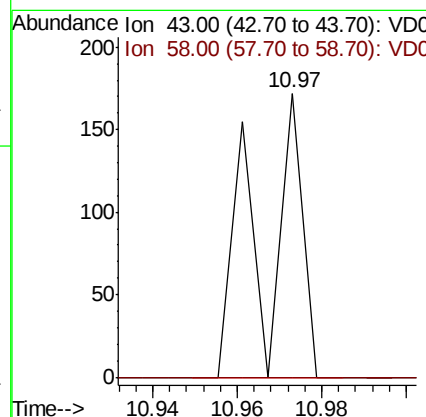
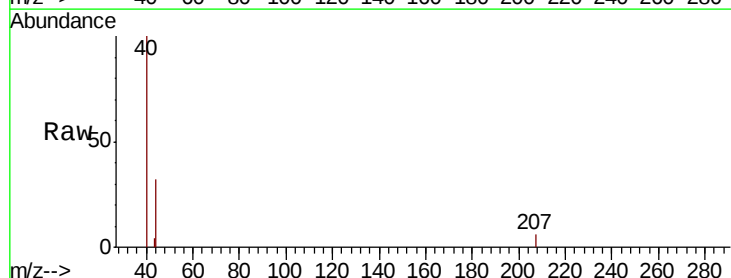
Instrument :
 MSVOA_D
 ClientSampleId :
 SOIL-002-E

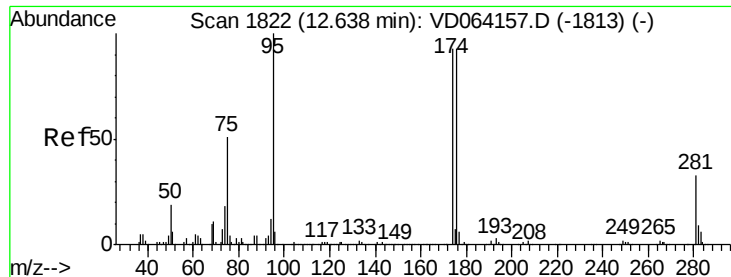
Tot Ion: 63 Resp: 109
 Ion Ratio Lower Upper
 63 100
 106 0.0 24.1 36.1#



#59
 2-Hexanone
 Concen: 2.528 ug/l
 RT: 10.97 min Scan# 1539
 Delta R.T. -0.02 min
 Lab File: VD064369.D
 Acq: 25 Nov 2019 19:23

Tgt Ion: 43 Resp: 115
 Ion Ratio Lower Upper
 43 100
 58 0.0 25.9 77.7#





#62

4-Bromofluorobenzene

Concen: 51.017 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. -0.01 min

Lab File: VD064369.D

Acq: 25 Nov 2019 19:23

Instrument :

MSVOA_D

ClientSampleId :

SOIL-002-E

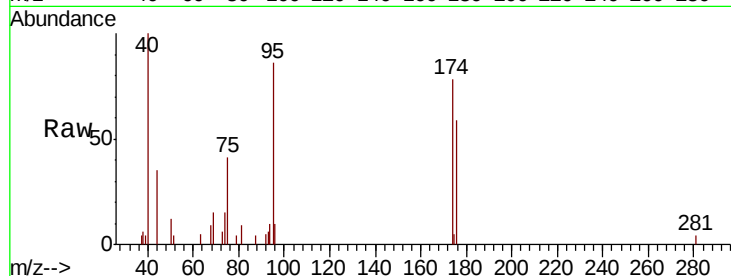
Tot Ion: 95 Resp: 6363

Ion Ratio Lower Upper

95 100

174 93.5 0.0 183.6

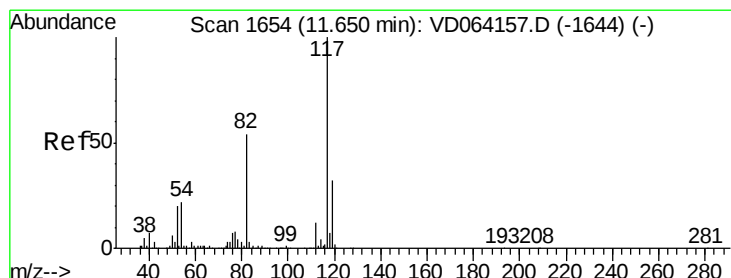
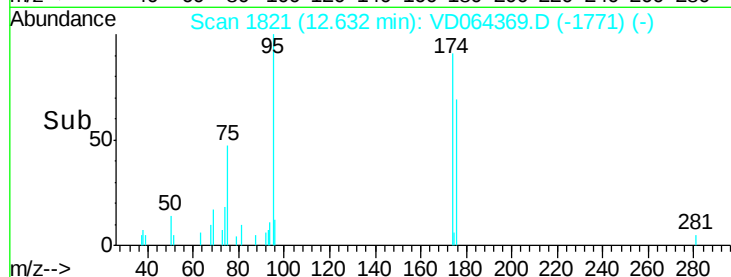
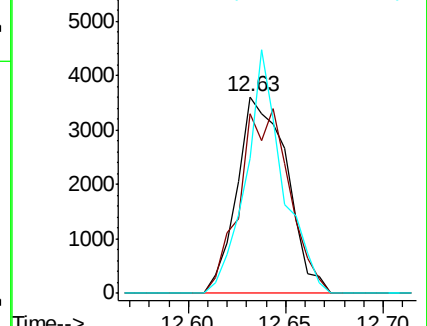
176 91.3 0.0 180.2



Abundance Ion 94.90 (94.60 to 95.60): V

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.65 min Scan# 1654

Delta R.T. -0.00 min

Lab File: VD064369.D

Acq: 25 Nov 2019 19:23

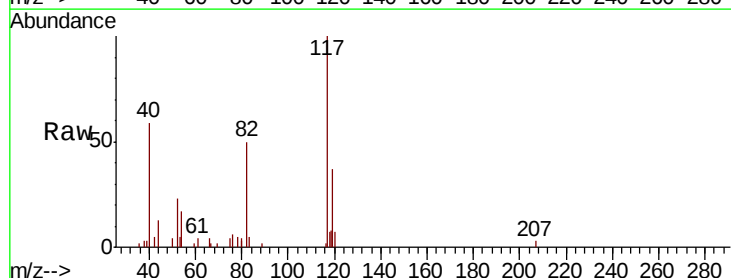
Tgt Ion: 117 Resp: 14337

Ion Ratio Lower Upper

117 100

82 49.8 42.8 64.2

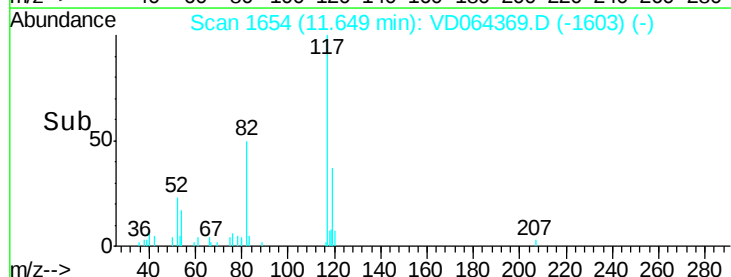
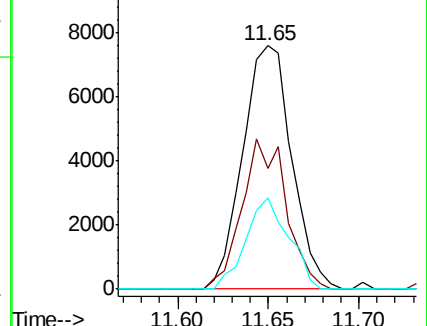
119 37.4 25.6 38.4

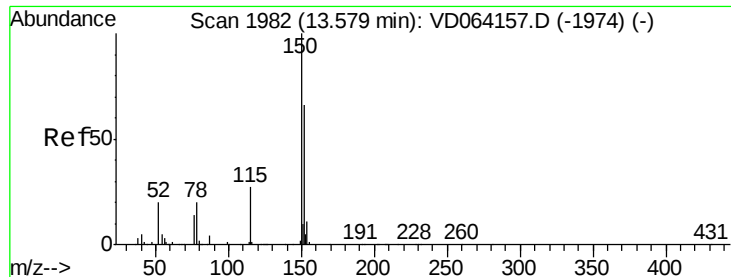


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.58 min Scan# 1983

Delta R.T. 0.01 min

Lab File: VD064369.D

Acq: 25 Nov 2019 19:23

Instrument :

MSVOA_D

ClientSampleId :

SOIL-002-E

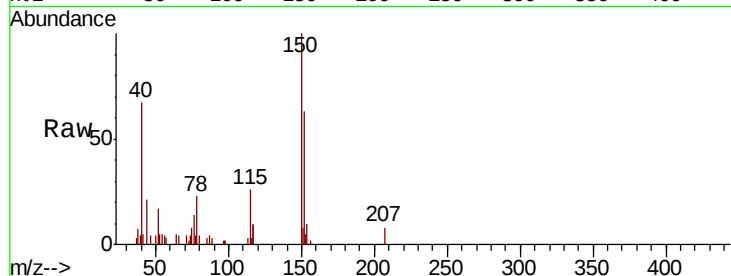
Tot Ion:152 Resp: 7503

Ion Ratio Lower Upper

152 100

115 49.4 27.4 82.2

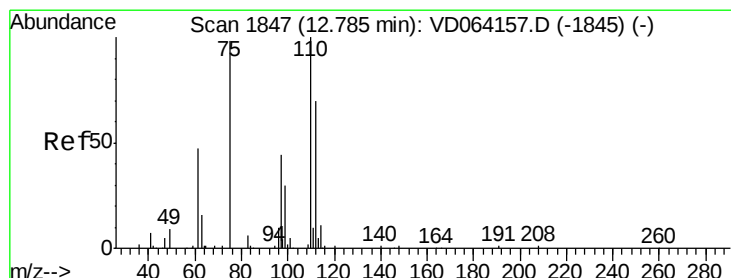
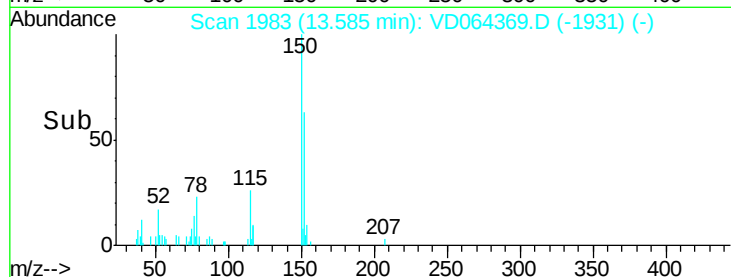
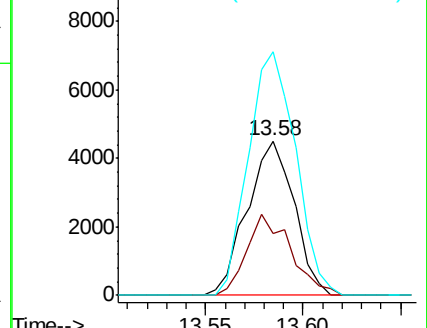
150 159.3 0.0 351.6



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 52.321 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.15 min

Lab File: VD064369.D

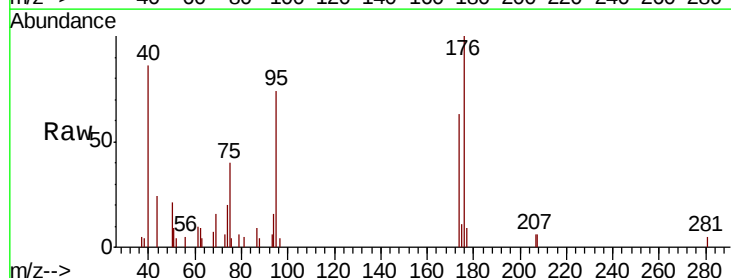
Acq: 25 Nov 2019 19:23

Tgt Ion: 75 Resp: 3162

Ion Ratio Lower Upper

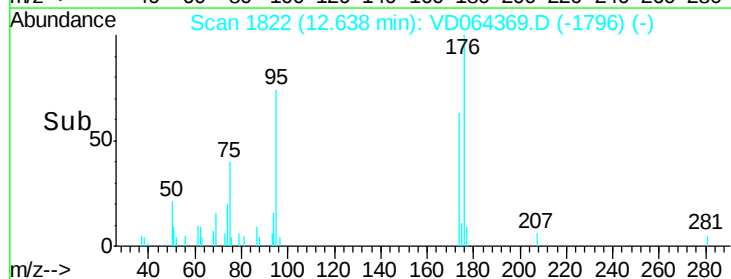
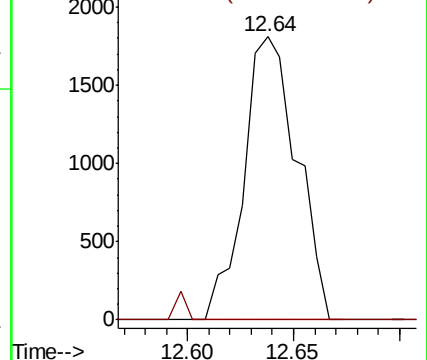
75 100

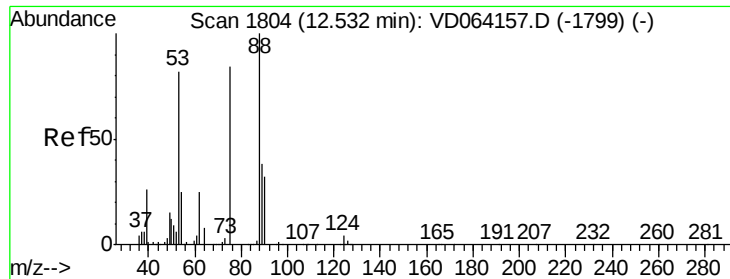
77 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 77.00 (76.70 to 77.70): VDC





#81

trans-1,4-Dichloro-2-butene

Concen: 103.930 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.11 min

Lab File: VD064369.D

Acq: 25 Nov 2019 19:23

Instrument :

MSVOA_D

ClientSampleId :

SOIL-002-E

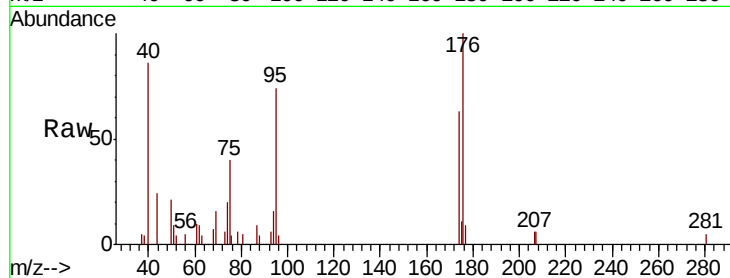
Tot Ion: 75 Resp: 3162

Ion Ratio Lower Upper

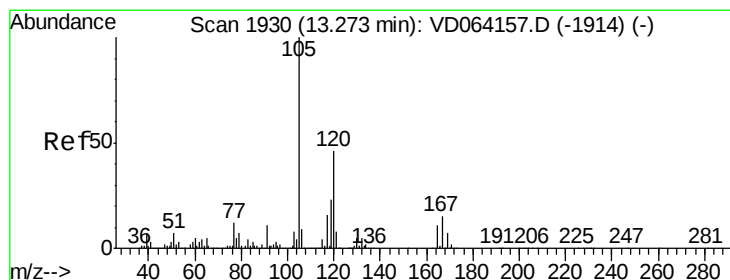
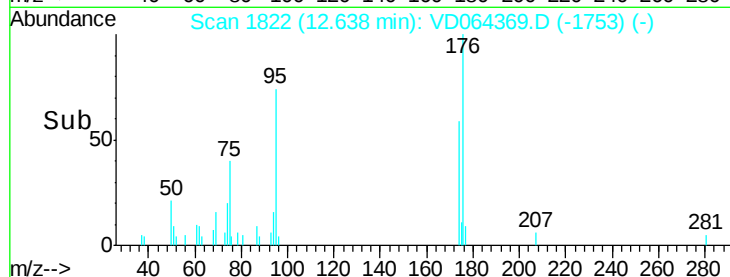
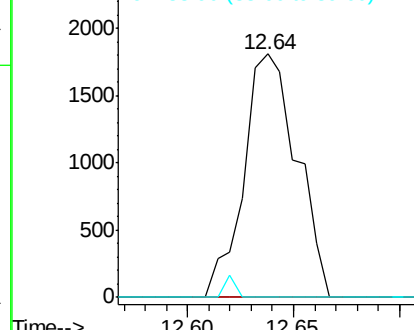
75 100

53 0.0 79.4 119.0#

89 1.9 36.6 55.0#



Abundance Ion 74.90 (74.60 to 75.60): VDC
Ion 53.00 (52.70 to 53.70): VDC
Ion 88.90 (88.60 to 89.60): VDC



#84

1,2,4-Trimethylbenzene

Concen: 3.606 ug/l

RT: 13.27 min Scan# 1930

Delta R.T. -0.00 min

Lab File: VD064369.D

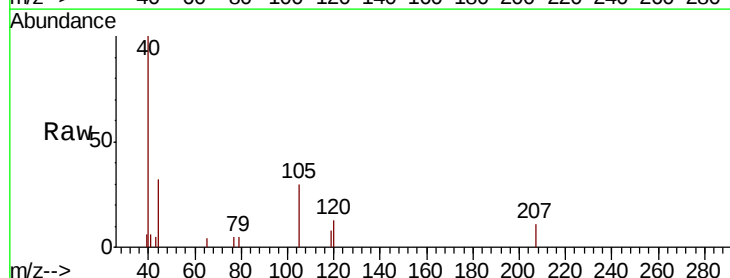
Acq: 25 Nov 2019 19:23

Tgt Ion: 105 Resp: 1611

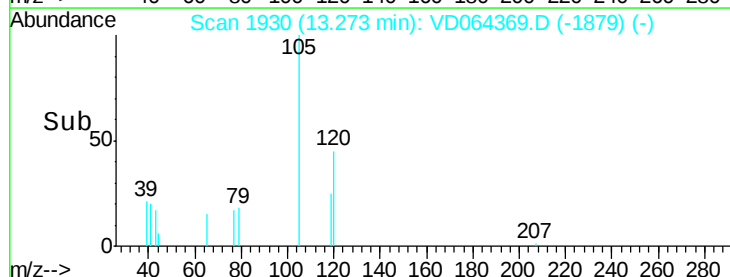
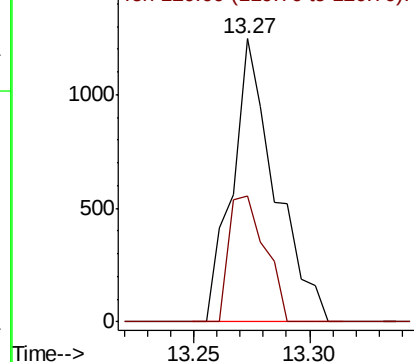
Ion Ratio Lower Upper

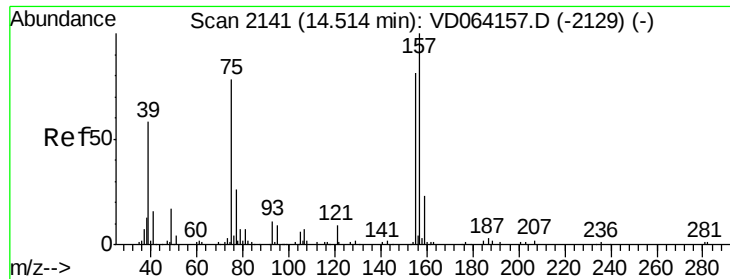
105 100

120 37.5 23.3 69.8



Abundance Ion 105.00 (104.70 to 105.70): V
Ion 120.00 (119.70 to 120.70): V

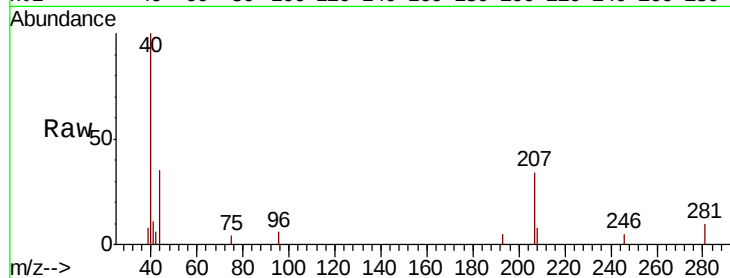




#92
 1,2-Dibromo-3-Chloropropane
 Concen: 3.640 ug/l
 RT: 14.54 min Scan# 2146
 Delta R.T. 0.03 min
 Lab File: VD064369.D
 Acq: 25 Nov 2019 19:23

Instrument :
 MSVOA_D
 ClientSampleId :
 SOIL-002-E

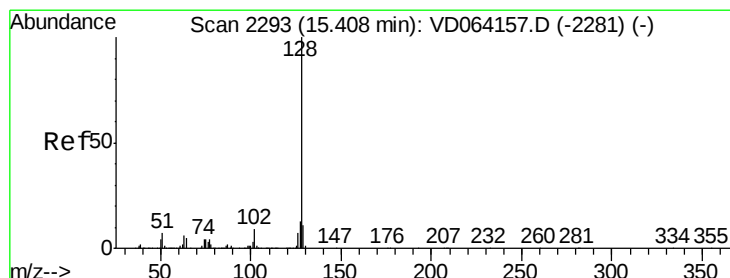
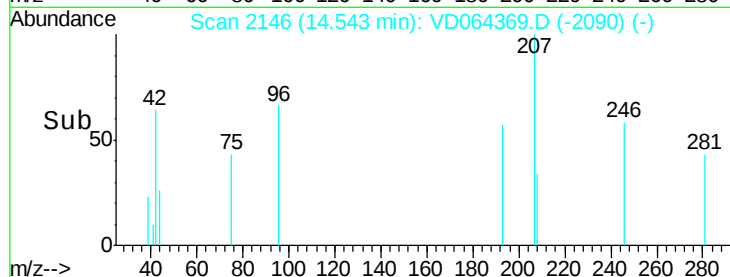
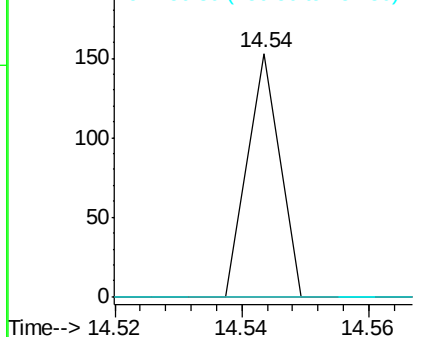
Tot Ion	Ratio	Lower	Upper
75	100		
155	0.0	48.0	144.0#
157	0.0	61.5	184.4#



Abundance Ion 74.90 (74.60 to 75.60): VD064369.D (-2090) (-)

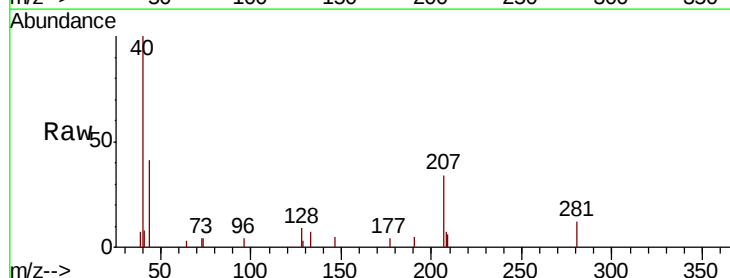
Ion 154.80 (154.50 to 155.50): VD064369.D (-2090) (-)

Ion 156.80 (156.50 to 157.50): VD064369.D (-2090) (-)



#95
 Naphthalene
 Concen: 2.231 ug/l
 RT: 15.42 min Scan# 2295
 Delta R.T. 0.01 min
 Lab File: VD064369.D
 Acq: 25 Nov 2019 19:23

Tgt Ion	Ratio	Lower	Upper
128	100		
127	0.0	10.5	15.7#
129	9.9	8.6	13.0



Abundance Ion 128.00 (127.70 to 128.70): VD064369.D (-2242) (-)

Ion 127.00 (126.70 to 127.70): VD064369.D (-2242) (-)

Ion 129.00 (128.70 to 129.70): VD064369.D (-2242) (-)

