

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN062419\
 Data File : VN056463.D
 Acq On : 24 Jun 2019 18:07
 Operator : JC/SP
 Sample : K3475-01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 SOILS-1

Quant Time: Jun 25 01:23:39 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N061919W.M
 Quant Title : SW846 8260
 QLast Update : Fri Jun 21 03:45:40 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	396645	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	670670	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	667526	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	203263	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.03	65	219741	49.99	ug/l	0.00
Spiked Amount			Recovery	=	99.98%	
35) Dibromofluoromethane	7.59	113	192733	46.07	ug/l	0.00
Spiked Amount			Recovery	=	92.14%	
50) Toluene-d8	10.09	98	830430	51.01	ug/l	0.00
Spiked Amount			Recovery	=	102.02%	
62) 4-Bromofluorobenzene	12.40	95	275085	50.69	ug/l	0.00
Spiked Amount			Recovery	=	101.38%	

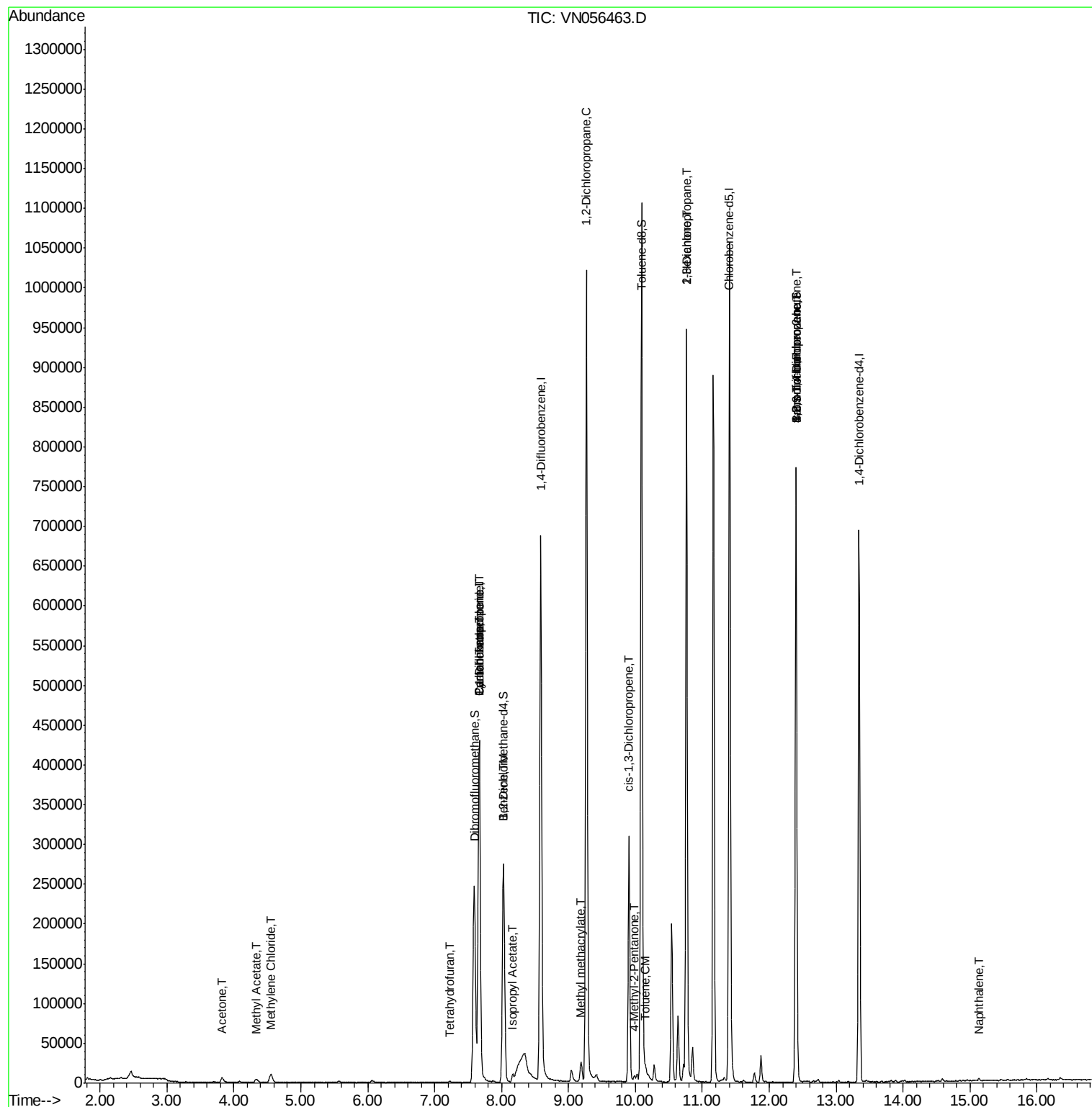
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.82	43	11769	5.344	ug/l	97
18) Methyl Acetate	4.33	43	9430	1.342	ug/l #	80
20) Methylene Chloride	4.55	84	7773	1.000	ug/l	98
29) Tetrahydrofuran	7.23	42	1682	0.944	ug/l #	67
31) Cyclohexane	7.66	56	6626	0.976	ug/l #	1
36) 1,1-Dichloropropene	7.66	75	25384	4.300	ug/l #	49
38) Carbon Tetrachloride	7.66	117	33459	6.482	ug/l #	15
40) Benzene	8.04	78	23951	1.319	ug/l	95
43) Isopropyl Acetate	8.17	43	12325	1.378	ug/l #	92
45) 1,2-Dichloropropane	9.27	63	1349	0.278	ug/l #	43
48) Methyl methacrylate	9.18	41	9503	2.120	ug/l #	12
51) 4-Methyl-2-Pentanone	9.99	43	4900	0.849	ug/l	91
52) Toluene	10.16	92	3508	0.316	ug/l	100
54) cis-1,3-Dichloropropene	9.90	75	60040	9.253	ug/l #	59
57) 1,3-Dichloropropane	10.76	76	10317	1.376	ug/l #	42
59) 2-Hexanone	10.76	43	135061	31.828	ug/l #	51
71) Bromoform	12.40	173	1925	3.636	ug/l #	1
73) Isopropylbenzene	12.40	105	61	Below Cal	#	48
76) 1,2,3-Trichloropropane	12.40	75	127051	30.145	ug/l #	100
79) 2-Chlorotoluene	12.67	91	170	Below Cal	#	40
80) 1,3,5-Trimethylbenzene	12.73	105	1391	Below Cal		77
81) trans-1,4-Dichloro-2-buten	12.40	75	127051	107.139	ug/l #	8
95) Naphthalene	15.14	128	3068	5.540	ug/l #	94

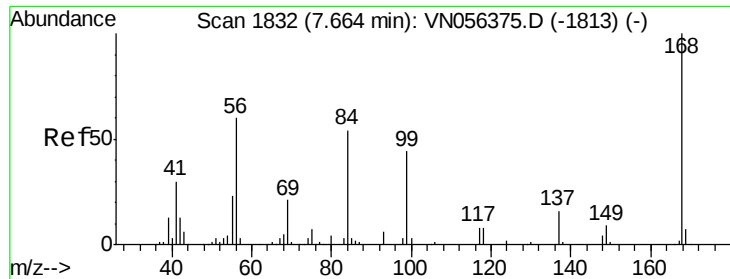
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN062419\
Data File : VN056463.D
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SOILS-1

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Quant Title : SW846 8260
QLast Update : Fri Jun 21 03:45:40 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN056463.D

Acq: 24 Jun 2019 18:07

Instrument :

MSVOA_N

ClientSampled :

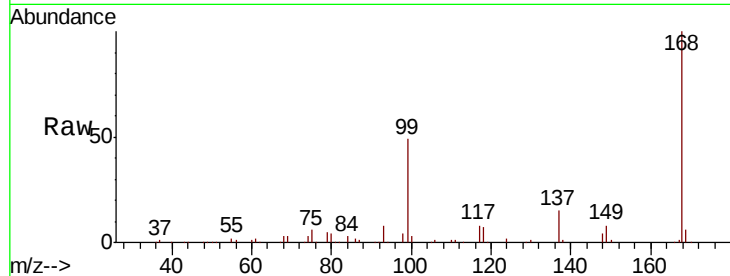
SOILS-1

Tot Ion:168 Resp: 396645

Ion Ratio Lower Upper

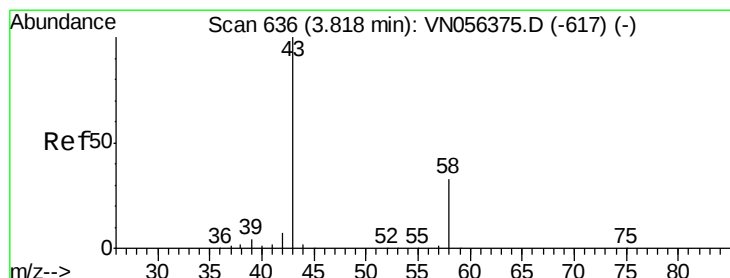
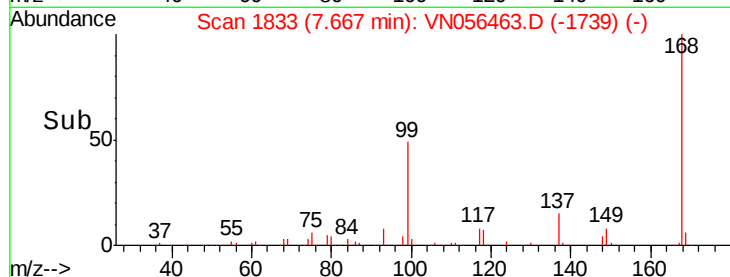
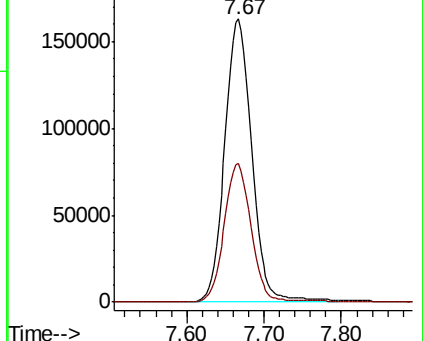
168 100

99 48.8 40.6 61.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#16

Acetone

Concen: 5.344 ug/l

RT: 3.82 min Scan# 638

Delta R.T. 0.01 min

Lab File: VN056463.D

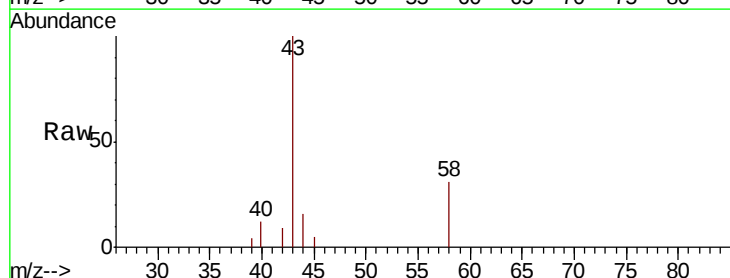
Acq: 24 Jun 2019 18:07

Tgt Ion: 43 Resp: 11769

Ion Ratio Lower Upper

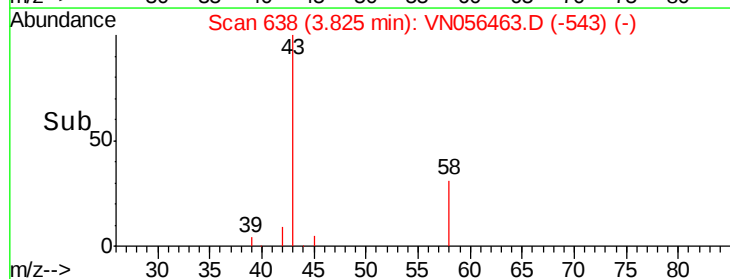
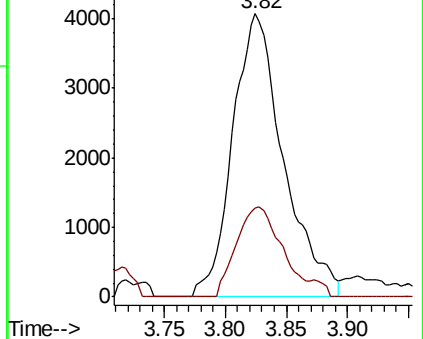
43 100

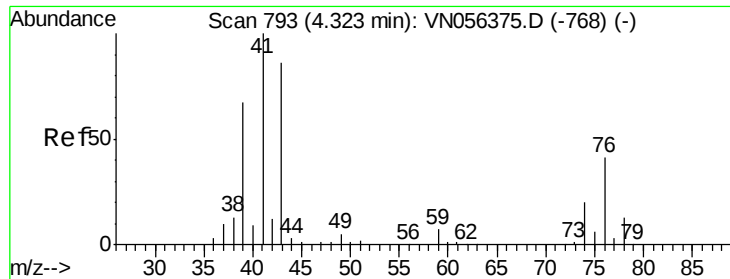
58 31.4 26.4 39.6



Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 58.00 (57.70 to 58.70): VNO

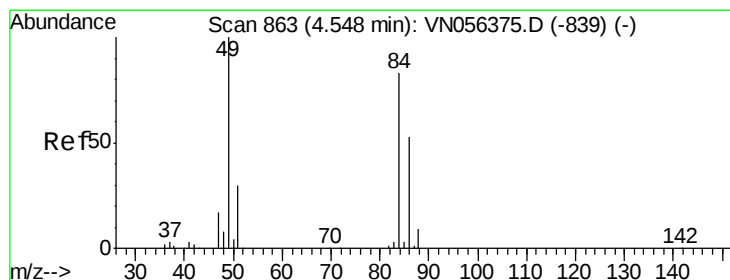
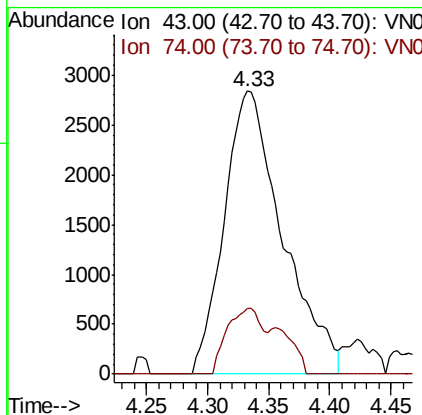
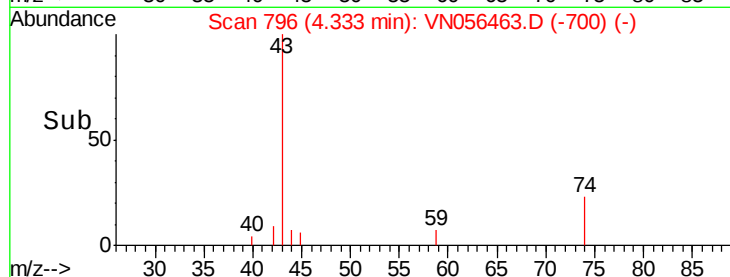
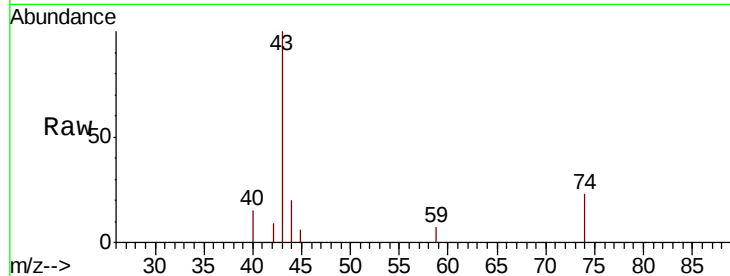




#18
Methyl Acetate
Concen: 1.342 ug/l
RT: 4.33 min Scan# 796
Delta R.T. 0.01 min
Lab File: VN056463.D
Acq: 24 Jun 2019 18:07

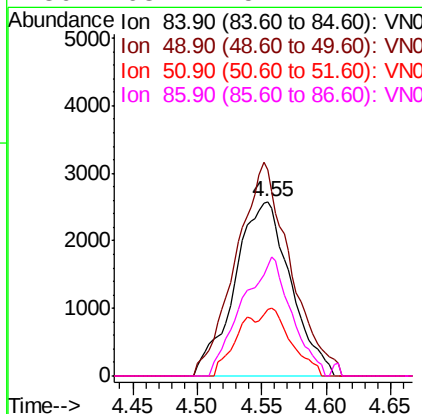
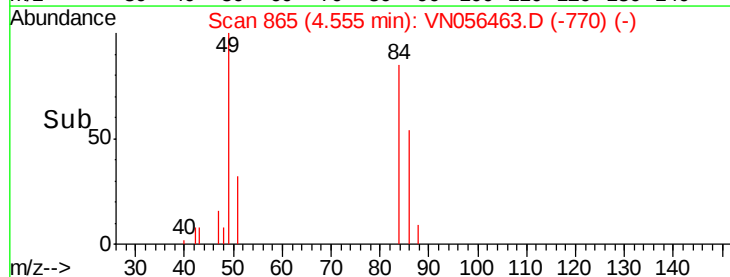
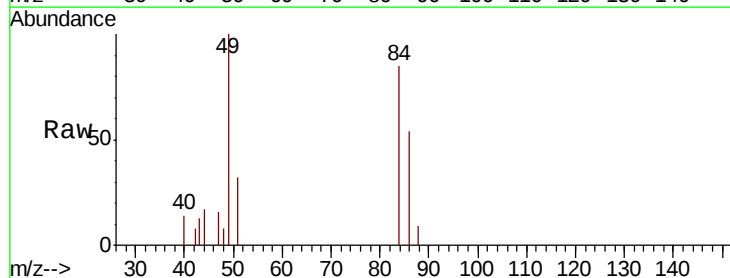
Instrument :
MSVOA_N
ClientSampled :
SOILS-1

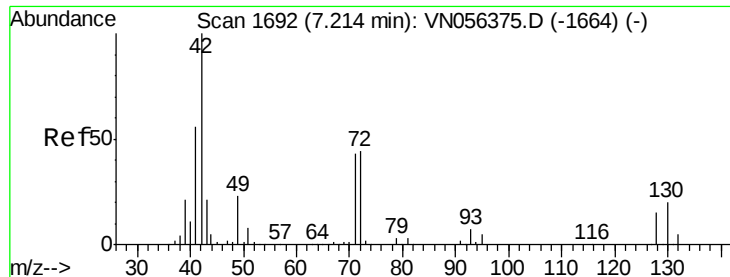
Tot Ion: 43 Resp: 9430
Ion Ratio Lower Upper
43 100
74 14.3 19.2 28.8#



#20
Methylene Chloride
Concen: 1.000 ug/l
RT: 4.55 min Scan# 865
Delta R.T. 0.01 min
Lab File: VN056463.D
Acq: 24 Jun 2019 18:07

Tgt Ion: 84 Resp: 7773
Ion Ratio Lower Upper
84 100
49 117.9 96.4 144.6
51 37.9 28.6 43.0
86 63.4 51.4 77.2





#29

Tetrahydrofuran

Concen: 0.944 ug/l

RT: 7.23 min Scan# 1698

Delta R.T. 0.02 min

Lab File: VN056463.D

Acq: 24 Jun 2019 18:07

Instrument :

MSVOA_N

ClientSampled :

SOILS-1

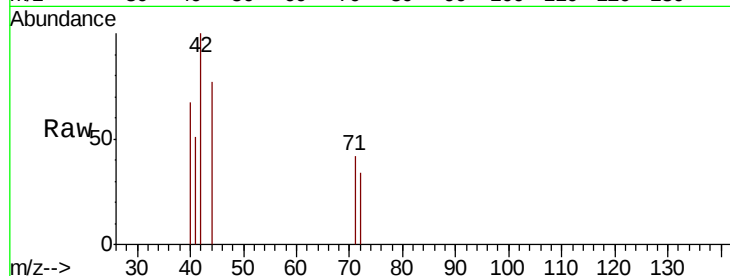
Tot Ion: 42 Resp: 1682

Ion Ratio Lower Upper

42 100

72 18.4 34.7 52.1#

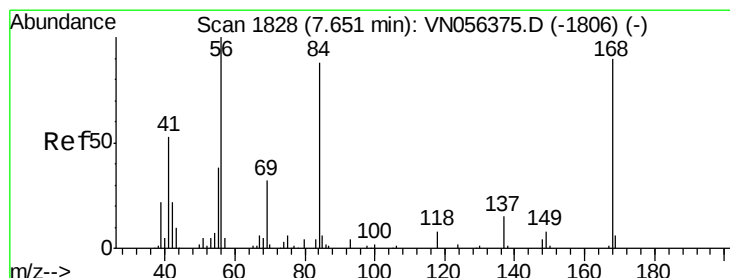
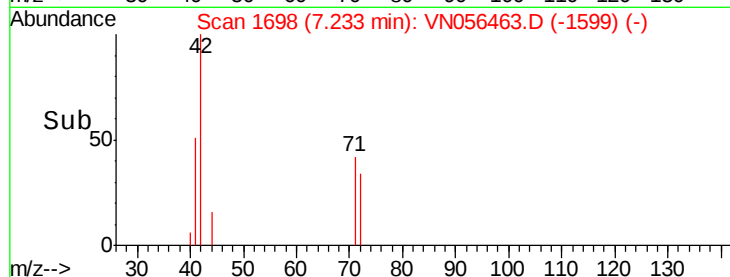
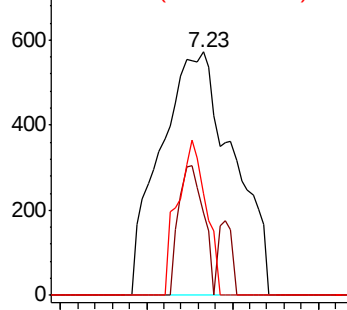
71 25.1 33.0 49.6#



Abundance Ion 42.00 (41.70 to 42.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

Ion 71.00 (70.70 to 71.70): VN0



#31

Cyclohexane

Concen: 0.976 ug/l

RT: 7.66 min Scan# 1831

Delta R.T. 0.01 min

Lab File: VN056463.D

Acq: 24 Jun 2019 18:07

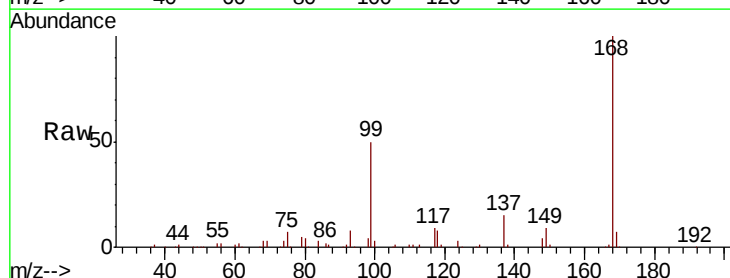
Tgt Ion: 56 Resp: 6626

Ion Ratio Lower Upper

56 100

69 184.1 25.8 38.6#

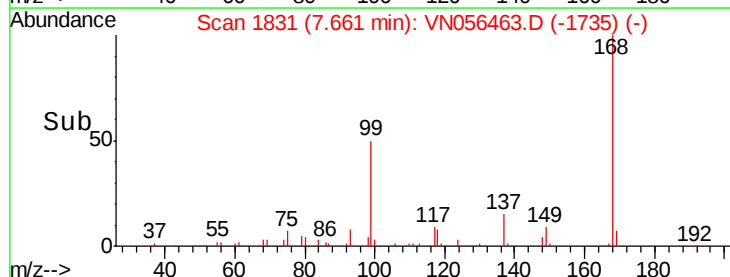
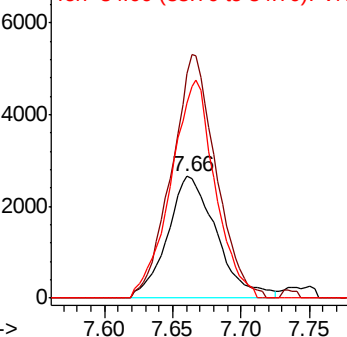
84 160.2 69.4 104.0#

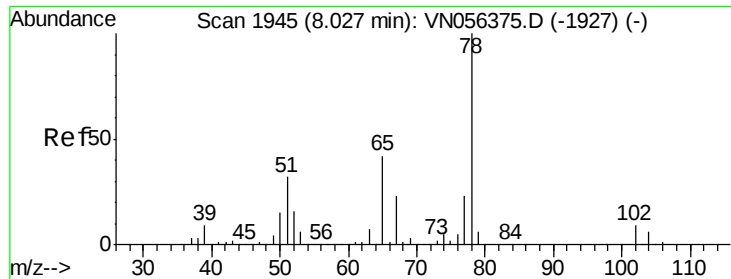


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0





#33

1,2-Dichloroethane-d4

Concen: 49.986 ug/l

RT: 8.03 min Scan# 1945

Delta R.T. 0.00 min

Lab File: VN056463.D

Acq: 24 Jun 2019 18:07

Instrument :

MSVOA_N

ClientSampled :

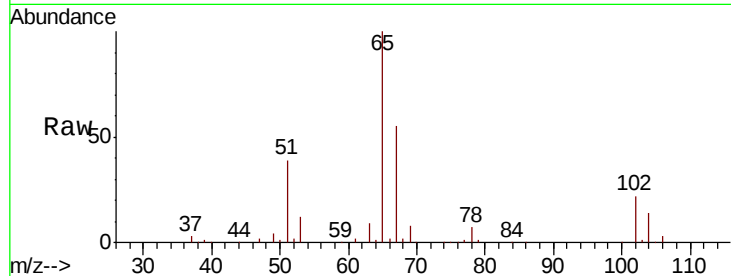
SOILS-1

Tot Ion: 65 Resp: 219741

Ion Ratio Lower Upper

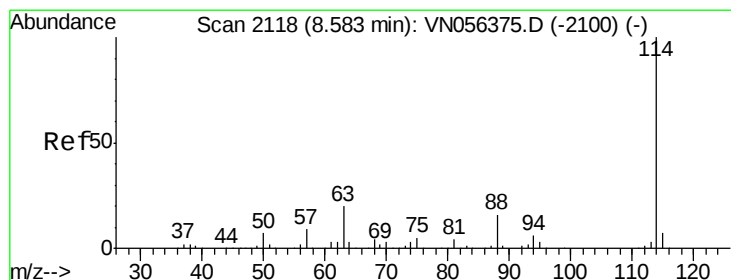
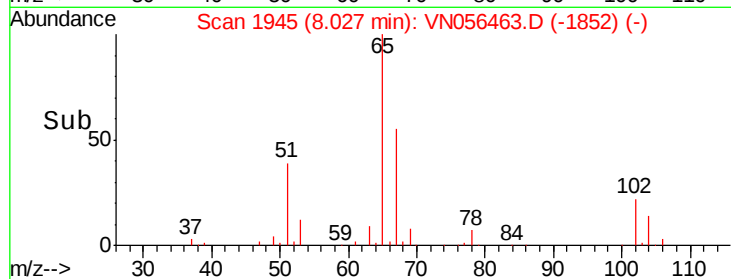
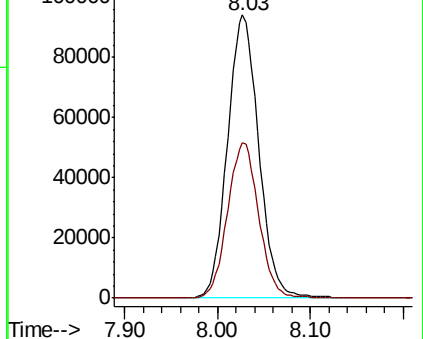
65 100

67 54.6 0.0 109.0



Abundance Ion 64.90 (64.60 to 65.60): VN056463.D (-1927) (-)

Ion 66.90 (66.60 to 67.60): VN056463.D (-1927) (-)



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.59 min Scan# 2119

Delta R.T. 0.00 min

Lab File: VN056463.D

Acq: 24 Jun 2019 18:07

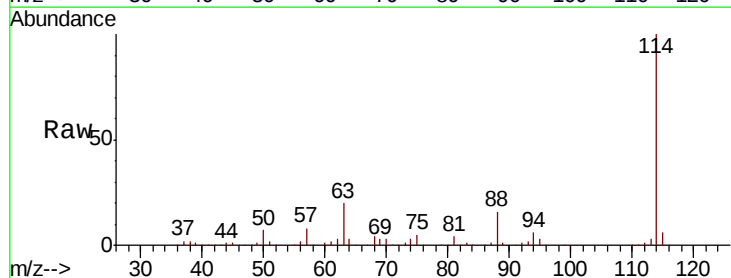
Tgt Ion: 114 Resp: 670670

Ion Ratio Lower Upper

114 100

63 19.6 0.0 39.2

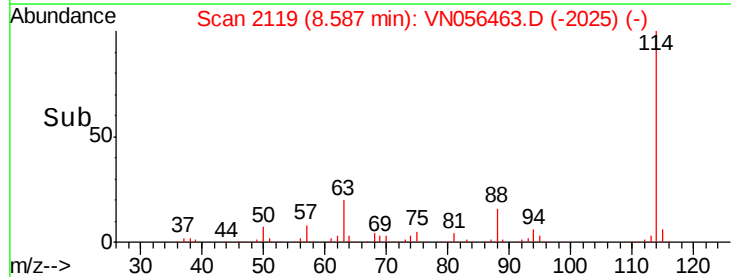
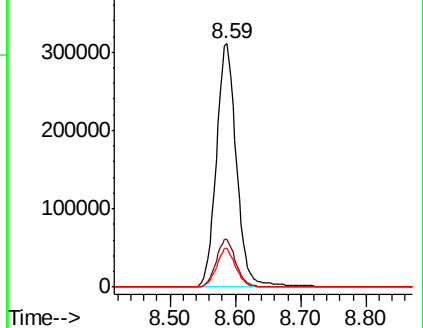
88 15.8 0.0 31.4

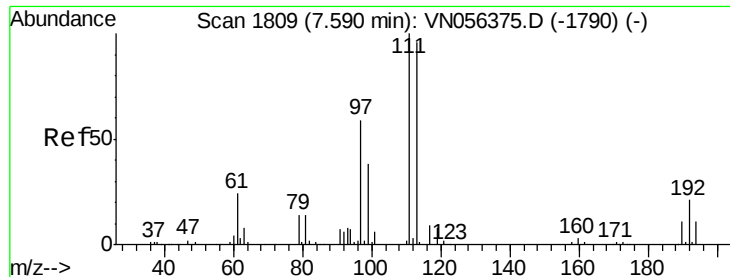


Abundance Ion 113.90 (113.60 to 114.60): VN056463.D (-2100) (-)

Ion 63.00 (62.70 to 63.70): VN056463.D (-2100) (-)

Ion 87.90 (87.60 to 88.60): VN056463.D (-2100) (-)





#35

Dibromofluoromethane

Concen: 46.066 ug/l

RT: 7.59 min Scan# 1810

Delta R.T. 0.00 min

Lab File: VN056463.D

Acq: 24 Jun 2019 18:07

Instrument :

MSVOA_N

ClientSampleId :

SOILS-1

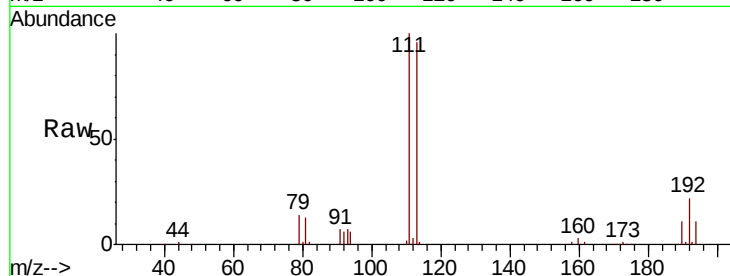
Tot Ion:113 Resp: 192733

Ion Ratio Lower Upper

113 100

111 103.0 82.9 124.3

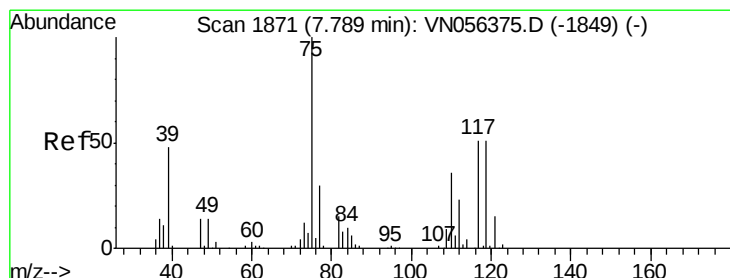
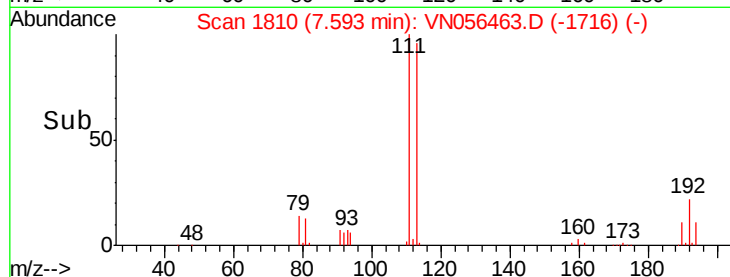
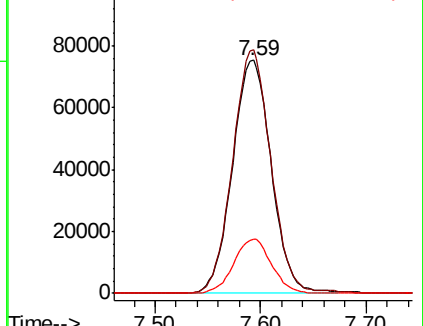
192 22.5 17.7 26.5



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: 4.300 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.13 min

Lab File: VN056463.D

Acq: 24 Jun 2019 18:07

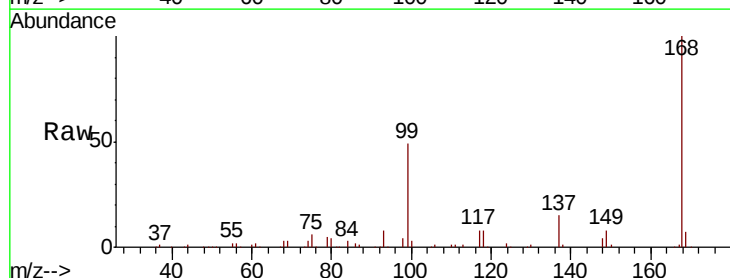
Tgt Ion: 75 Resp: 25384

Ion Ratio Lower Upper

75 100

110 8.4 18.1 54.3#

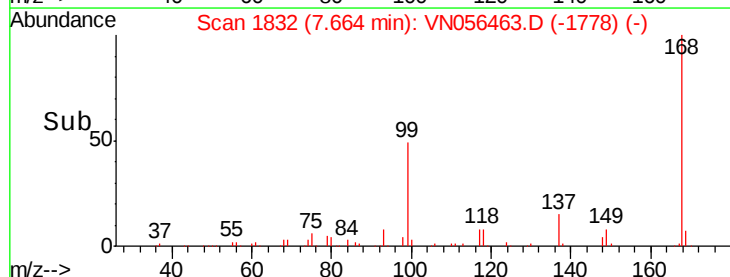
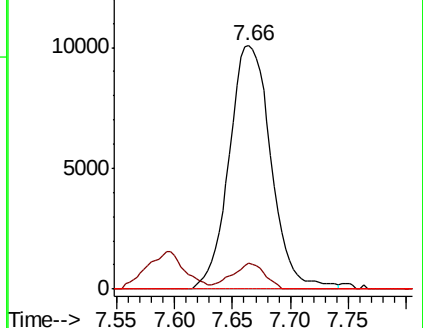
77 0.0 24.6 36.8#

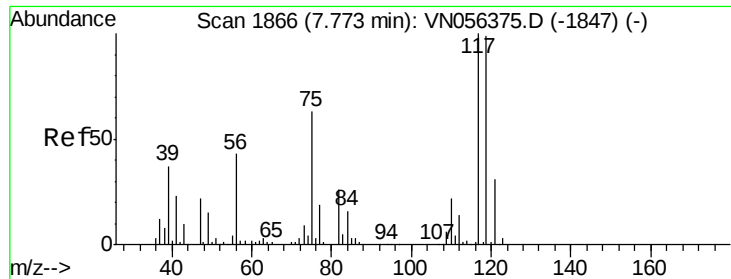


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): V

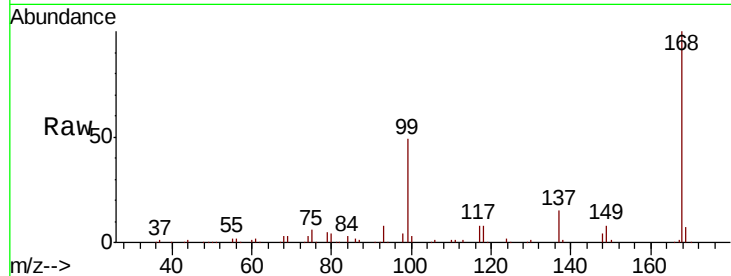




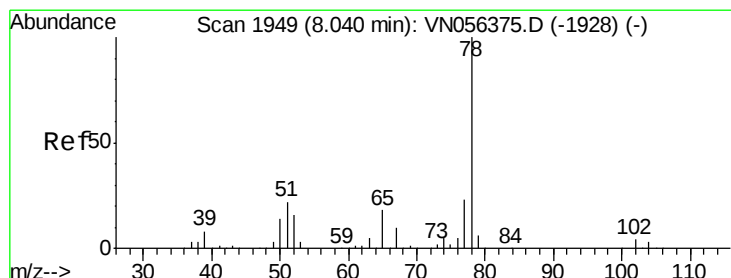
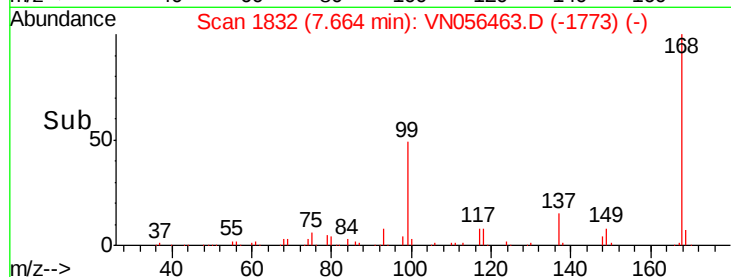
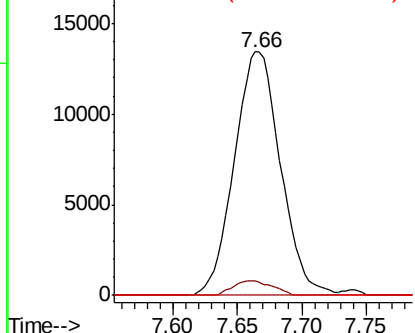
#38
Carbon Tetrachloride
Concen: 6.482 ug/l
RT: 7.66 min Scan# 1832
Delta R.T. -0.11 min
Lab File: VN056463.D
Acq: 24 Jun 2019 18:07

Instrument :
MSVOA_N
ClientSampled :
SOILS-1

Tot Ion:117 Resp: 33459
Ion Ratio Lower Upper
117 100
119 6.0 79.1 118.7#
121 0.0 24.8 37.2#

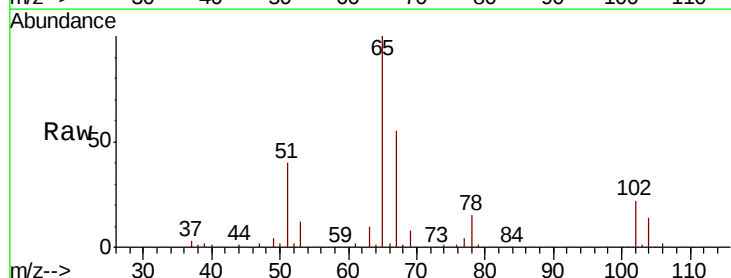


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

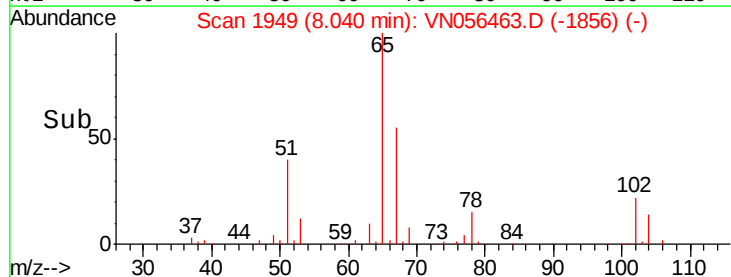
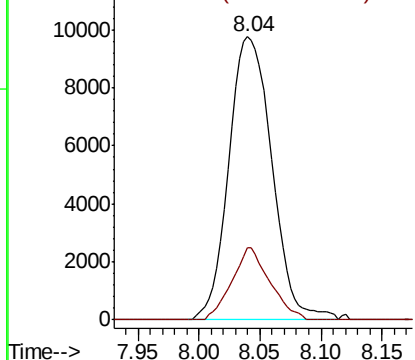


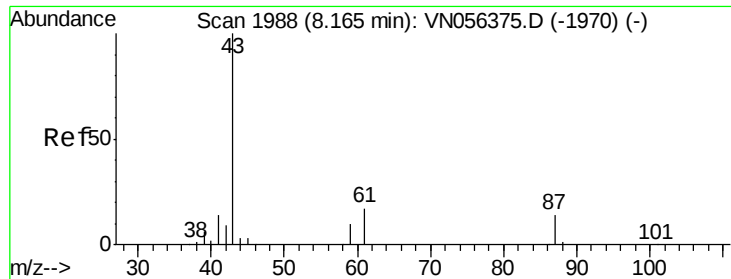
#40
Benzene
Concen: 1.319 ug/l
RT: 8.04 min Scan# 1949
Delta R.T. 0.00 min
Lab File: VN056463.D
Acq: 24 Jun 2019 18:07

Tgt Ion: 78 Resp: 23951
Ion Ratio Lower Upper
78 100
77 25.4 18.3 27.5



Abundance Ion 78.00 (77.70 to 78.70): V
Ion 77.00 (76.70 to 77.70): V





#43

Isopropyl Acetate

Concen: 1.378 ug/l

RT: 8.17 min Scan# 1989

Delta R.T. 0.00 min

Lab File: VN056463.D

Acq: 24 Jun 2019 18:07

Instrument :

MSVOA_N

ClientSampleId :

SOILS-1

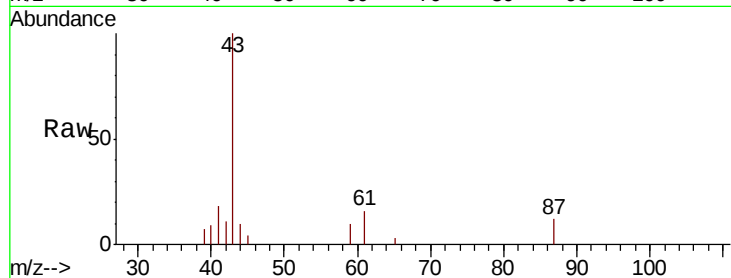
Tot Ion: 43 Resp: 12325

Ion Ratio Lower Upper

43 100

61 21.5 22.0 33.0#

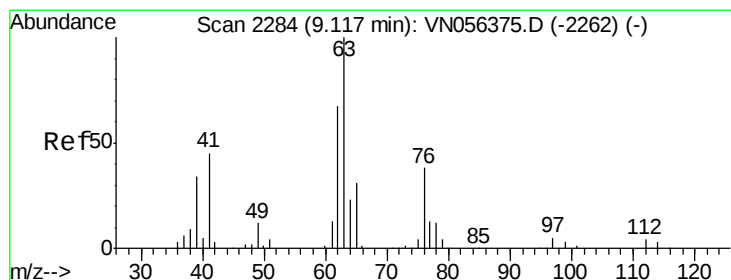
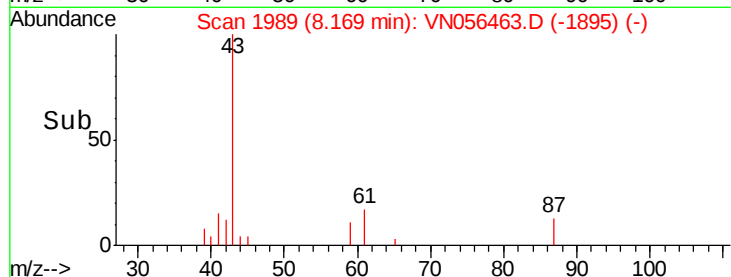
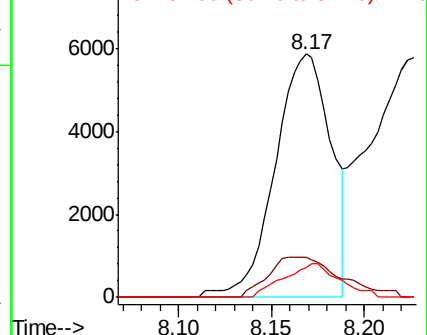
87 13.6 11.0 16.4



Abundance Ion 43.00 (42.70 to 43.70): VN056375.D (-1970) (-)

Ion 61.00 (60.70 to 61.70): VN056375.D (-1970) (-)

Ion 87.00 (86.70 to 87.70): VN056375.D (-1970) (-)



#45

1,2-Dichloropropane

Concen: 0.278 ug/l

RT: 9.27 min Scan# 2331

Delta R.T. 0.15 min

Lab File: VN056463.D

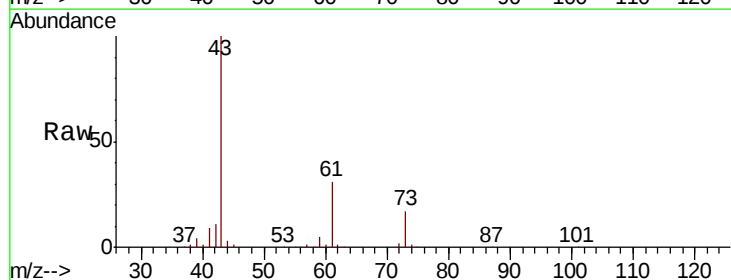
Acq: 24 Jun 2019 18:07

Tgt Ion: 63 Resp: 1349

Ion Ratio Lower Upper

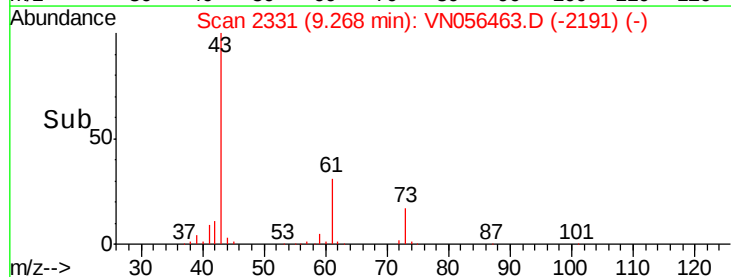
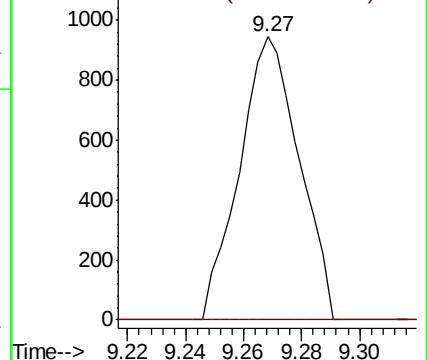
63 100

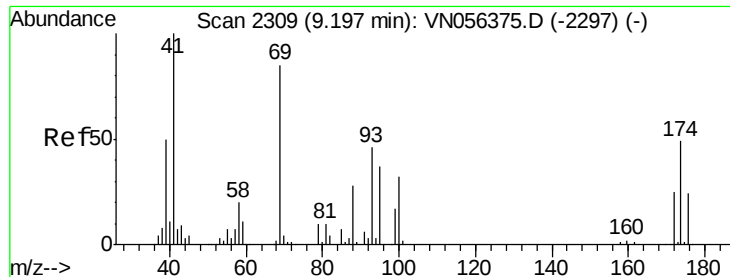
65 0.0 25.0 37.6#



Abundance Ion 62.90 (62.60 to 63.60): VN056375.D (-2262) (-)

Ion 64.90 (64.60 to 65.60): VN056375.D (-2262) (-)

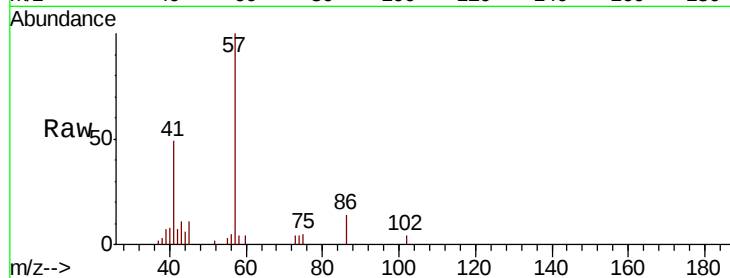




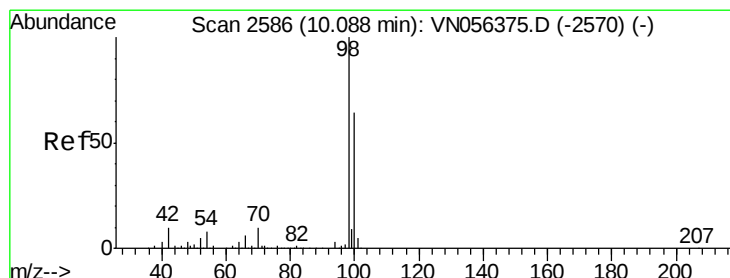
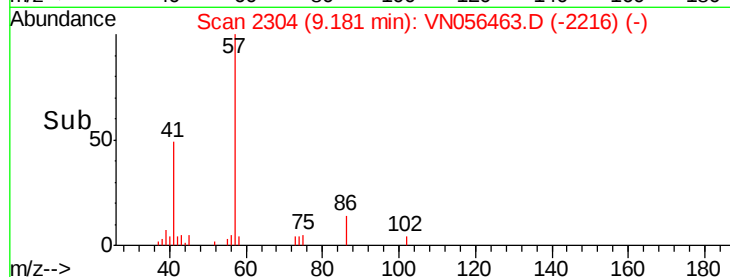
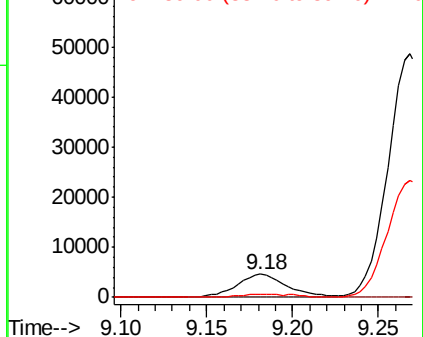
#48
Methyl methacrylate
Concen: 2.120 ug/l
RT: 9.18 min Scan# 2304
Delta R.T. -0.02 min
Lab File: VN056463.D
Acq: 24 Jun 2019 18:07

Instrument :
MSVOA_N
ClientSampleId :
SOILS-1

Tot Ion: 41 Resp: 9503
Ion Ratio Lower Upper
41 100
69 0.0 72.6 109.0#
39 0.0 42.6 63.8#

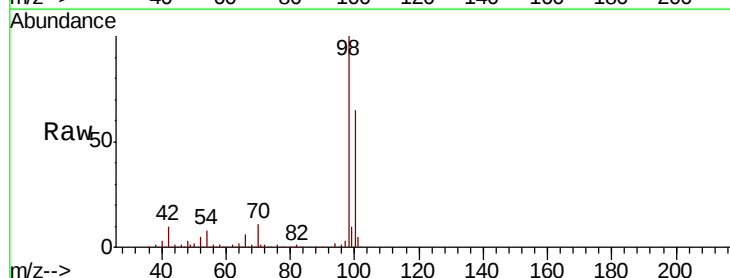


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

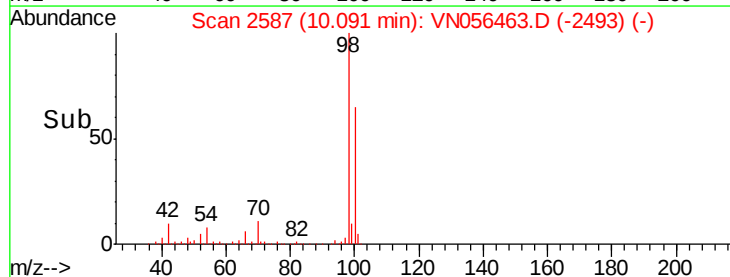
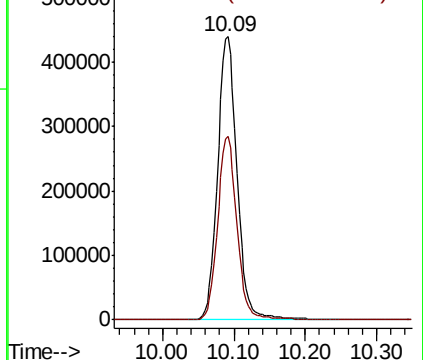


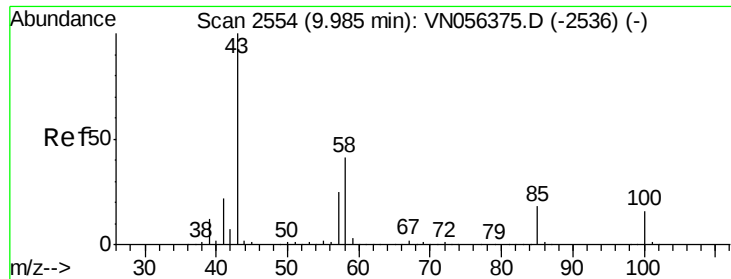
#50
Toluene-d8
Concen: 51.010 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN056463.D
Acq: 24 Jun 2019 18:07

Tgt Ion: 98 Resp: 830430
Ion Ratio Lower Upper
98 100
100 64.4 52.2 78.2



Abundance Ion 98.00 (97.70 to 98.70): VN0
Ion 100.00 (99.70 to 100.70): VN0





#51

4-Methyl-2-Pentanone

Concen: 0.849 ug/l

RT: 9.99 min Scan# 2554

Delta R.T. 0.00 min

Lab File: VN056463.D

Acq: 24 Jun 2019 18:07

Instrument :

MSVOA_N

ClientSampled :

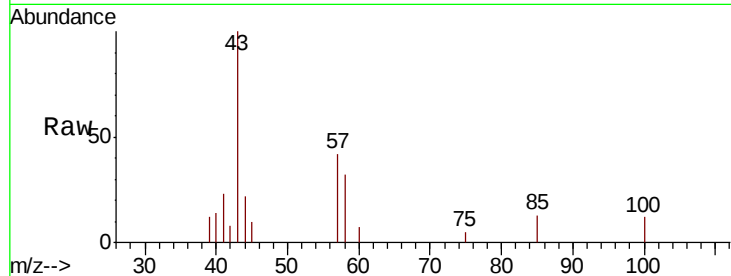
SOILS-1

Tot Ion: 43 Resp: 4900

Ion Ratio Lower Upper

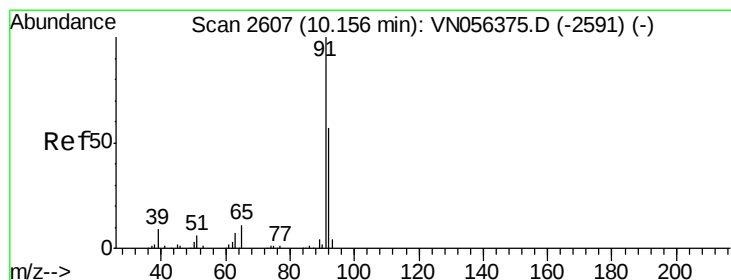
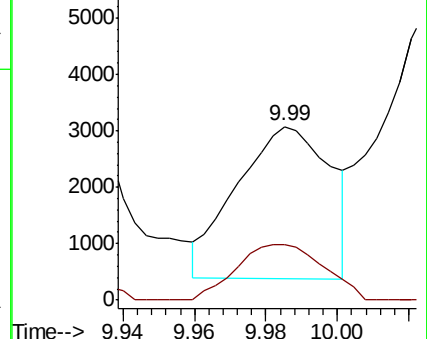
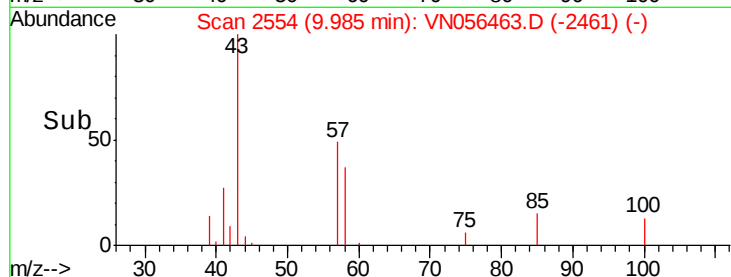
43 100

58 34.1 31.8 47.8



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#52

Toluene

Concen: 0.316 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. 0.00 min

Lab File: VN056463.D

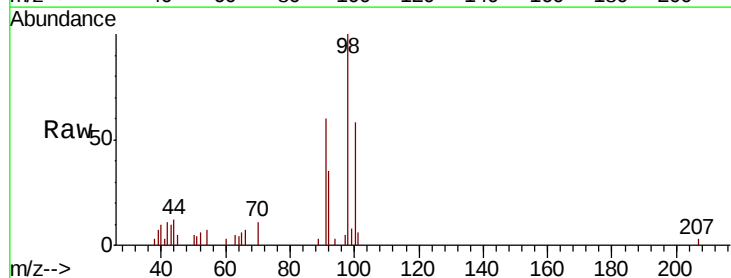
Acq: 24 Jun 2019 18:07

Tgt Ion: 92 Resp: 3508

Ion Ratio Lower Upper

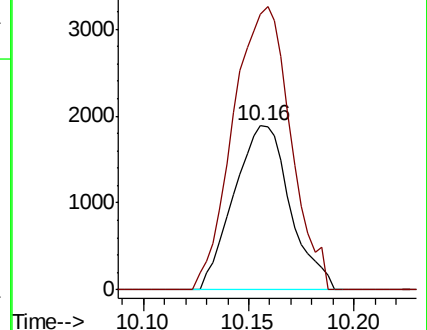
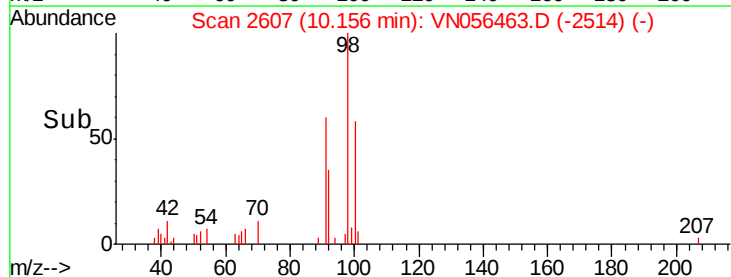
92 100

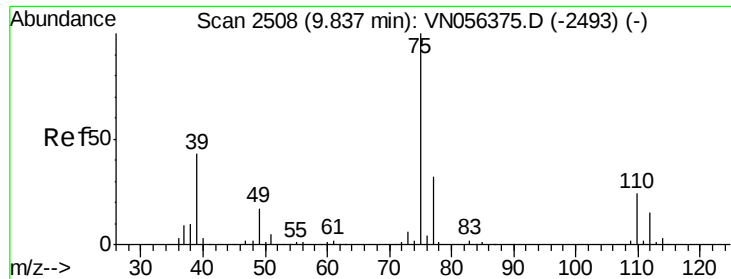
91 176.0 140.6 211.0



Abundance Ion 92.00 (91.70 to 92.70): VN0

Ion 91.00 (90.70 to 91.70): VN0





#54

cis-1,3-Dichloropropene

Concen: 9.253 ug/l

RT: 9.90 min Scan# 2529

Delta R.T. 0.07 min

Lab File: VN056463.D

Acq: 24 Jun 2019 18:07

Instrument :

MSVOA_N

ClientSampleId :

SOILS-1

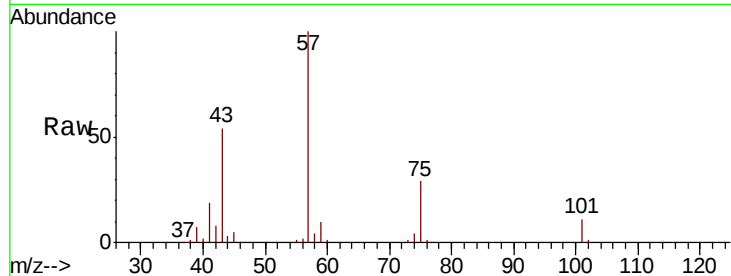
Tot Ion: 75 Resp: 60040

Ion Ratio Lower Upper

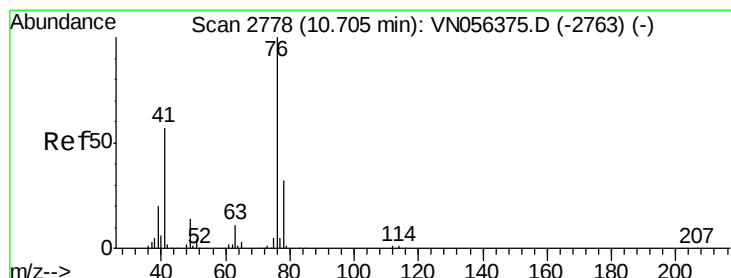
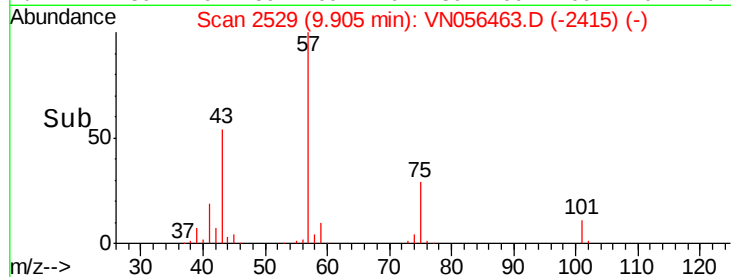
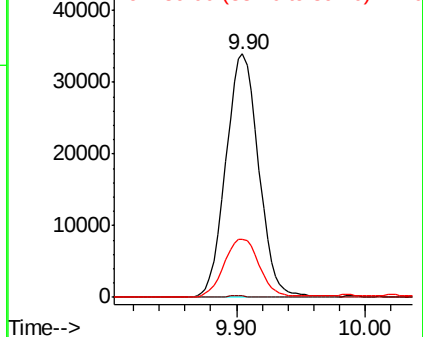
75 100

77 0.5 25.2 37.8#

39 23.9 34.2 51.4#



Abundance Ion 74.90 (74.60 to 75.60): VNO
Ion 76.90 (76.60 to 77.60): VNO
Ion 39.00 (38.70 to 39.70): VNO



#57

1,3-Dichloropropane

Concen: 1.376 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.06 min

Lab File: VN056463.D

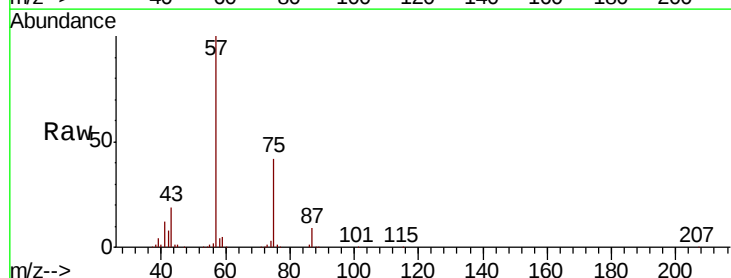
Acq: 24 Jun 2019 18:07

Tgt Ion: 76 Resp: 10317

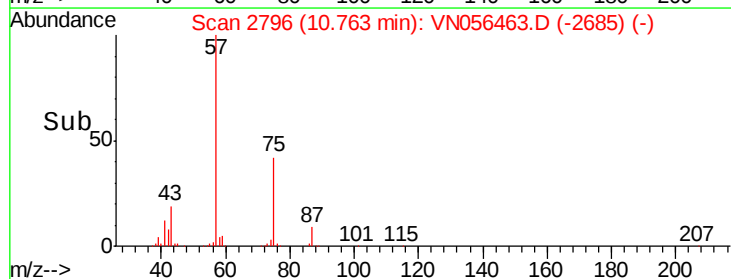
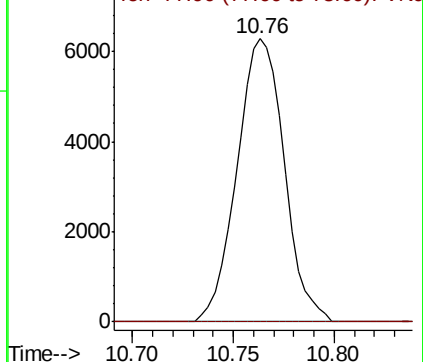
Ion Ratio Lower Upper

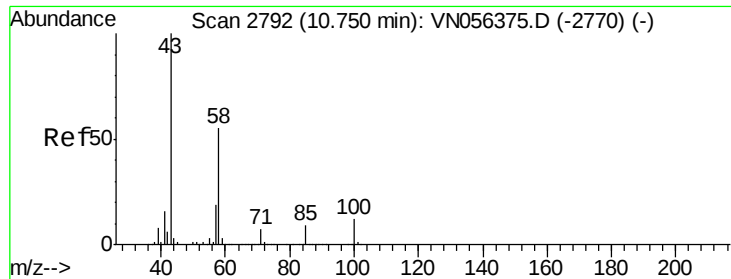
76 100

78 0.0 25.9 38.9#



Abundance Ion 75.90 (75.60 to 76.60): VNO
Ion 77.90 (77.60 to 78.60): VNO

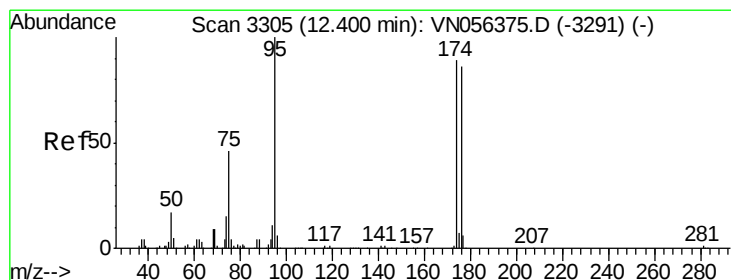
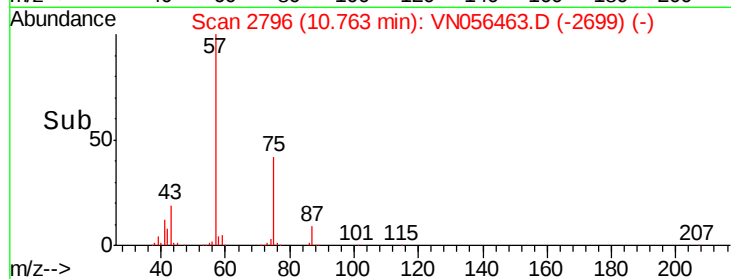
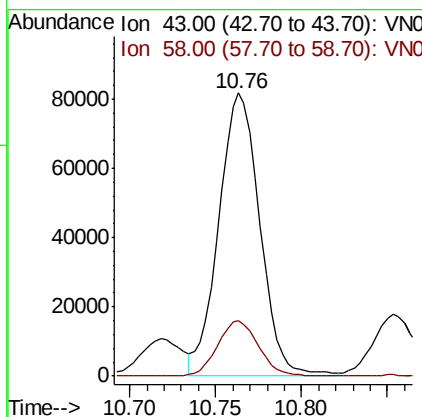
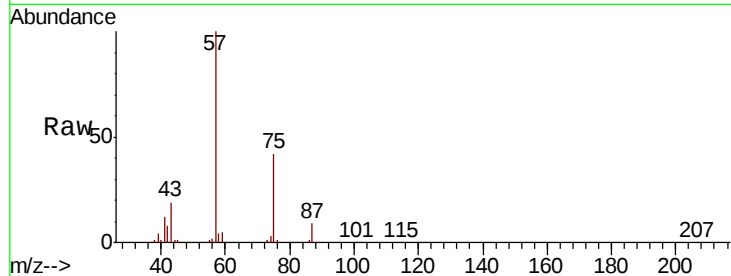




#59
2-Hexanone
Concen: 31.828 ug/l
RT: 10.76 min Scan# 2796
Delta R.T. 0.01 min
Lab File: VN056463.D
Acq: 24 Jun 2019 18:07

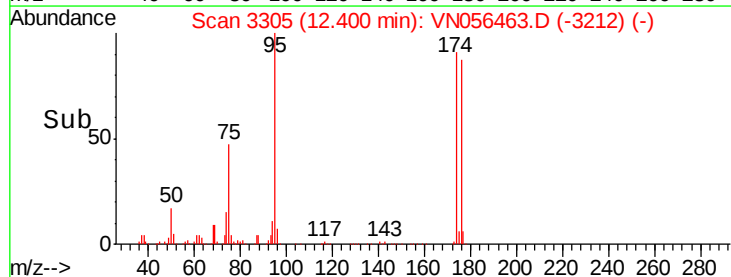
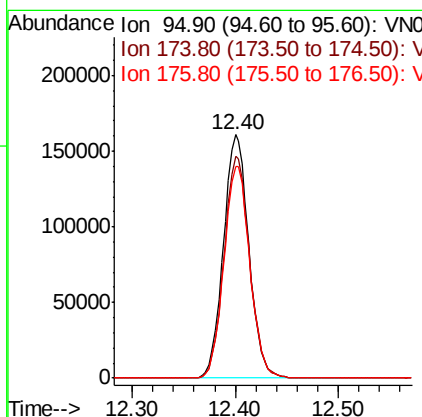
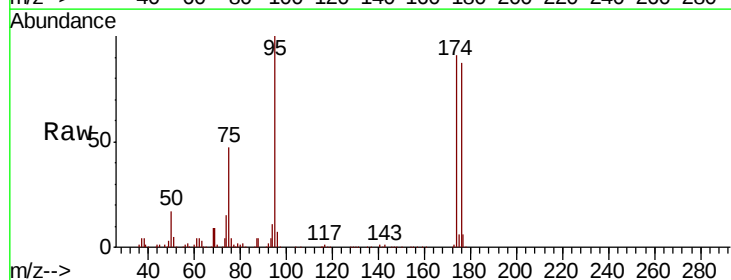
Instrument :
MSVOA_N
ClientSampled :
SOILS-1

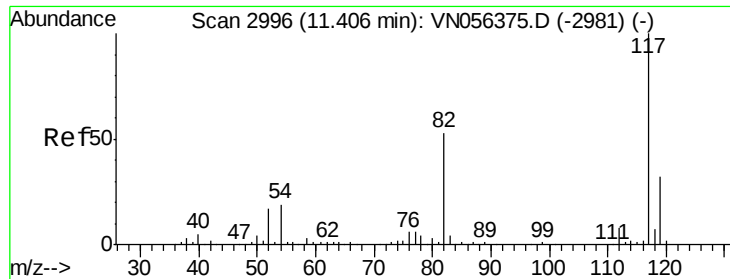
Tot Ion: 43 Resp: 135061
Ion Ratio Lower Upper
43 100
58 19.7 27.8 83.4#



#62
4-Bromofluorobenzene
Concen: 50.688 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.00 min
Lab File: VN056463.D
Acq: 24 Jun 2019 18:07

Tgt Ion: 95 Resp: 275085
Ion Ratio Lower Upper
95 100
174 91.8 0.0 179.4
176 89.1 0.0 173.4

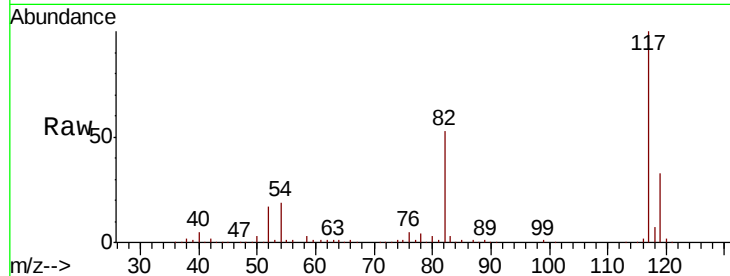




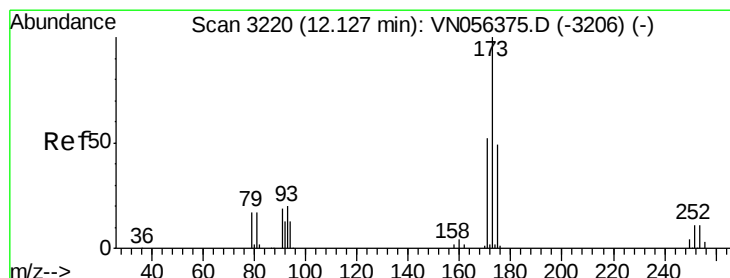
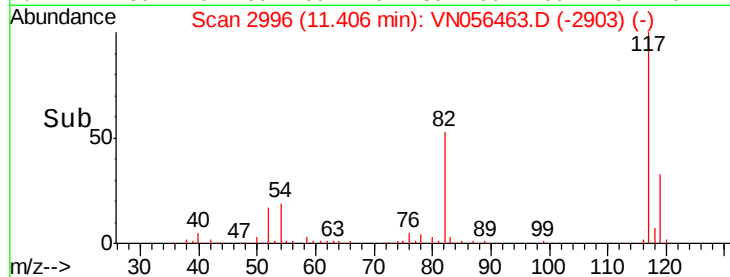
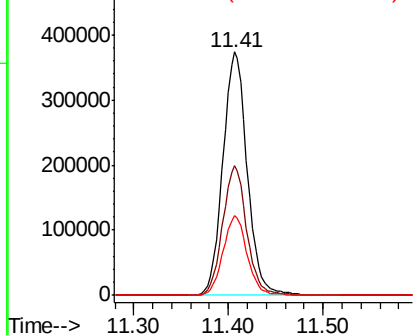
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN056463.D
Acq: 24 Jun 2019 18:07

Instrument :
MSVOA_N
ClientSampled :
SOILS-1

Tot Ion:117 Resp: 667526
Ion Ratio Lower Upper
117 100
82 53.1 42.0 63.0
119 32.6 25.3 37.9

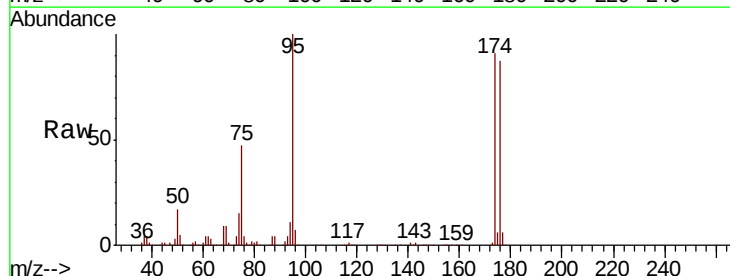


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

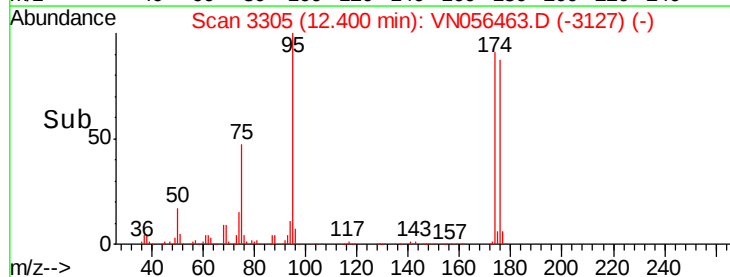
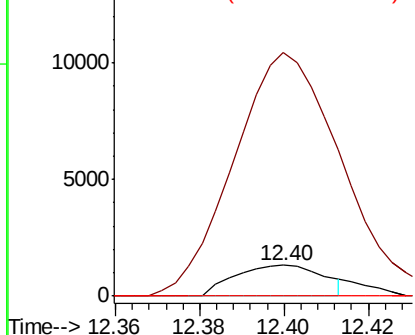


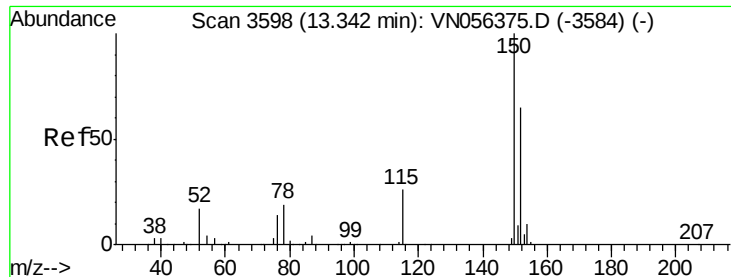
#71
Bromoform
Concen: 3.636 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.27 min
Lab File: VN056463.D
Acq: 24 Jun 2019 18:07

Tgt Ion:173 Resp: 1925
Ion Ratio Lower Upper
173 100
175 825.9 24.4 73.4#
254 0.0 0.0 0.0



Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. 0.00 min

Lab File: VN056463.D

Acq: 24 Jun 2019 18:07

Instrument :

MSVOA_N

ClientSampled :

SOILS-1

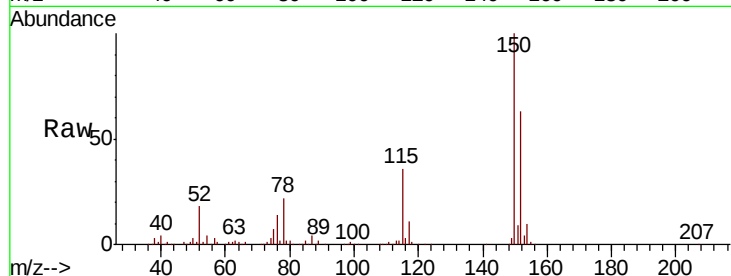
Tot Ion:152 Resp: 203263

Ion Ratio Lower Upper

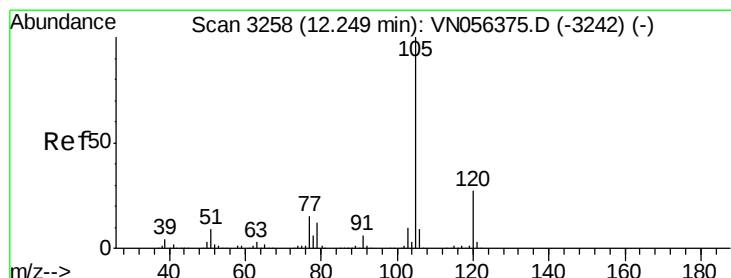
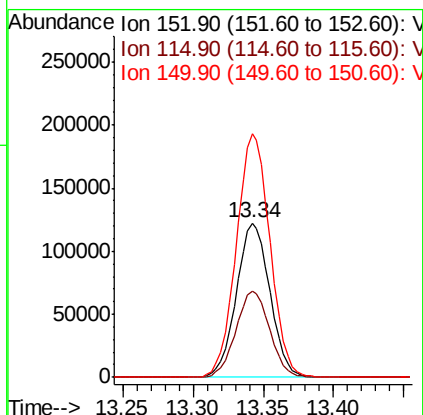
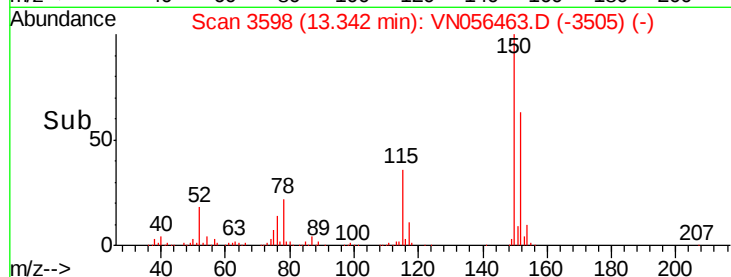
152 100

115 56.6 28.1 84.4

150 158.6 0.0 348.4



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



#73

Isopropylbenzene

Concen: Below Cal

RT: 12.40 min Scan# 3304

Delta R.T. 0.15 min

Lab File: VN056463.D

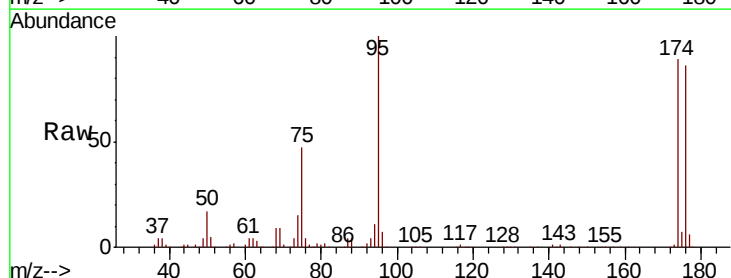
Acq: 24 Jun 2019 18:07

Tgt Ion:105 Resp: 61

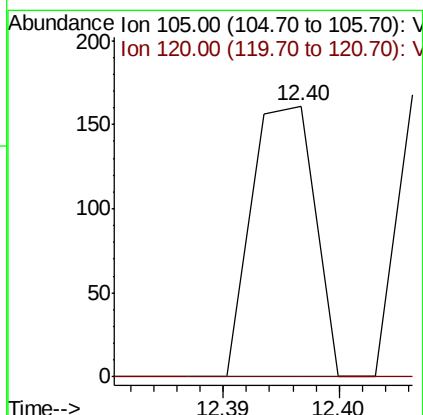
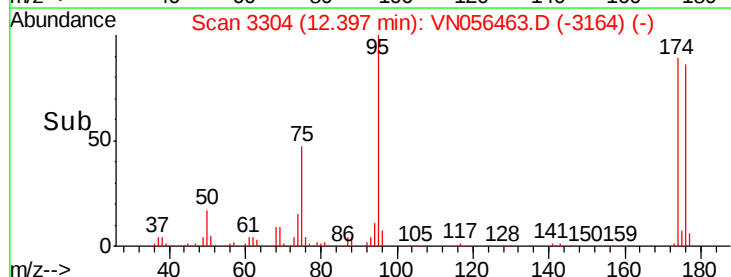
Ion Ratio Lower Upper

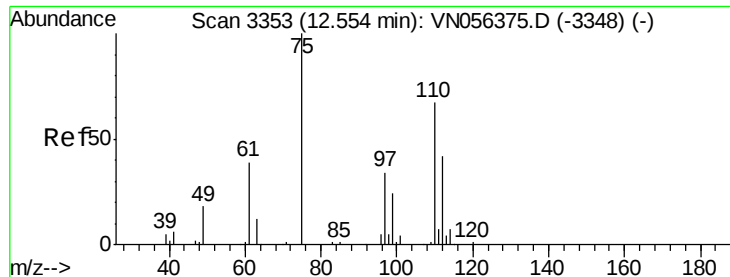
105 100

120 0.0 13.4 40.2#



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

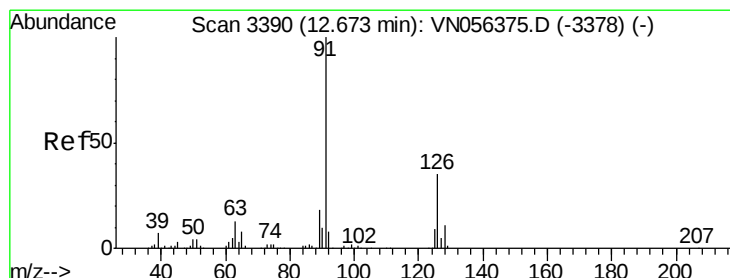
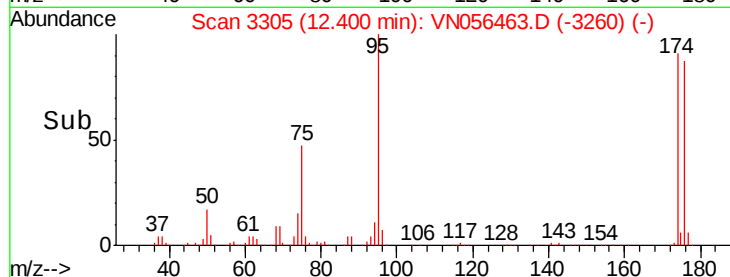
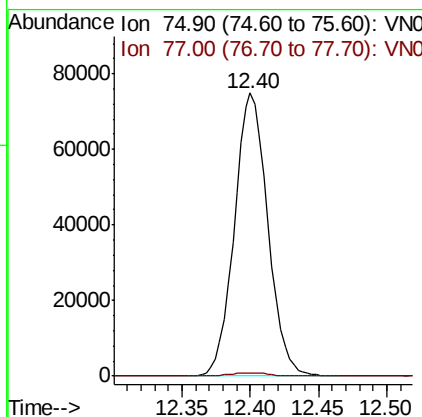
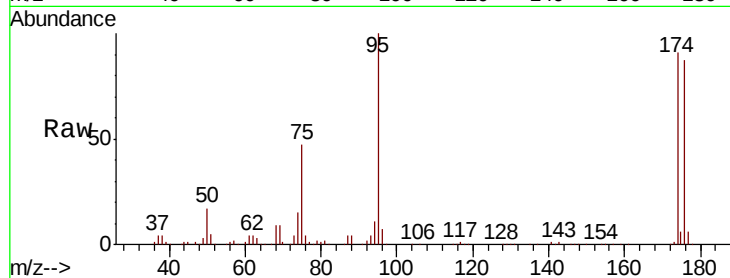




#76
 1,2,3-Trichloropropane
 Concen: 30.145 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. -0.15 min
 Lab File: VN056463.D
 Acq: 24 Jun 2019 18:07

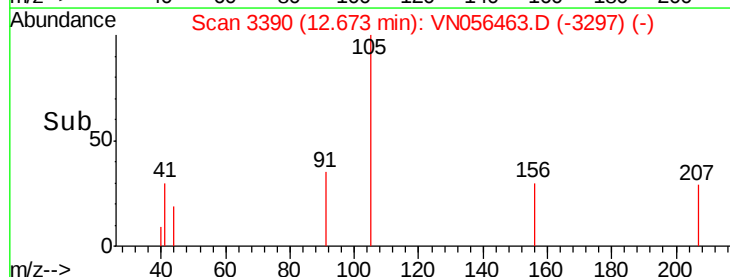
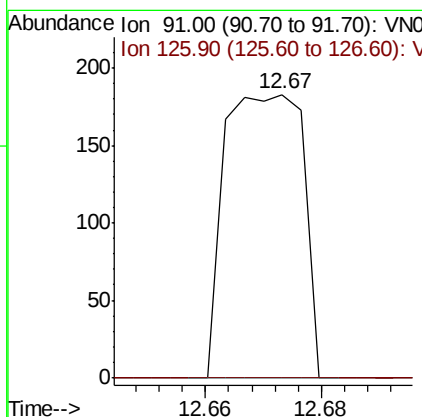
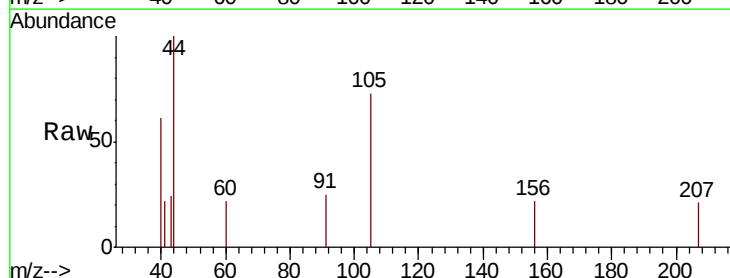
Instrument :
 MSVOA_N
 ClientSampled :
 SOILS-1

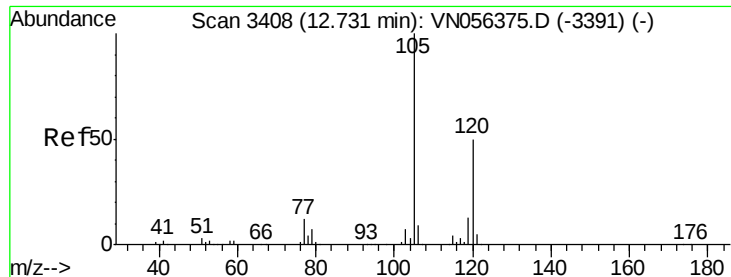
Tot Ion: 75 Resp: 127051
 Ion Ratio Lower Upper
 75 100
 77 1.3 0.0 0.0#



#79
 2-Chlorotoluene
 Concen: Below Cal
 RT: 12.67 min Scan# 3390
 Delta R.T. 0.00 min
 Lab File: VN056463.D
 Acq: 24 Jun 2019 18:07

Tgt Ion: 91 Resp: 170
 Ion Ratio Lower Upper
 91 100
 126 0.0 17.6 52.8#





#80

1,3,5-Trimethylbenzene

Concen: Below Cal

RT: 12.73 min Scan# 3408

Delta R.T. 0.00 min

Lab File: VN056463.D

Acq: 24 Jun 2019 18:07

Instrument :

MSVOA_N

ClientSampled :

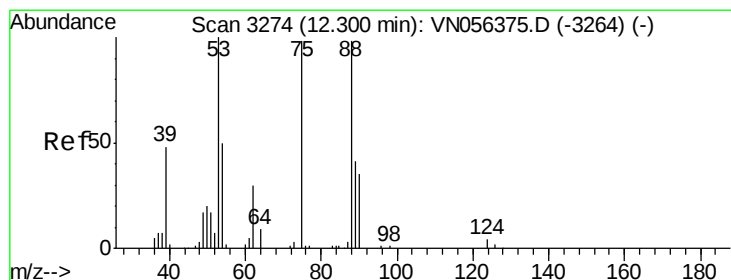
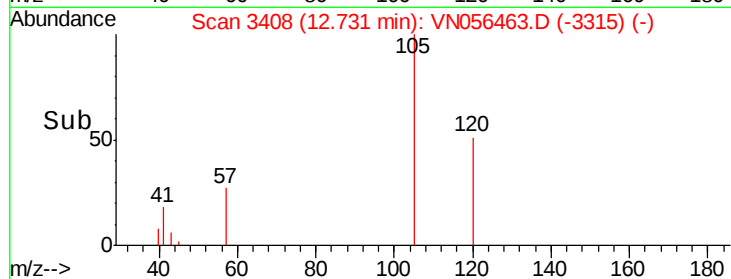
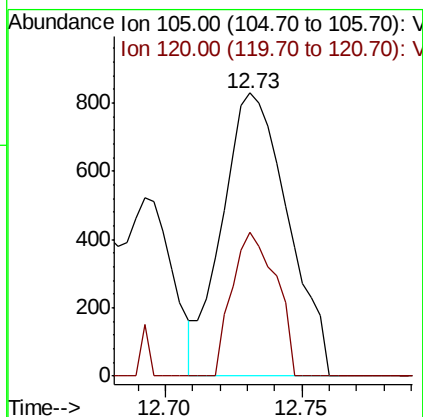
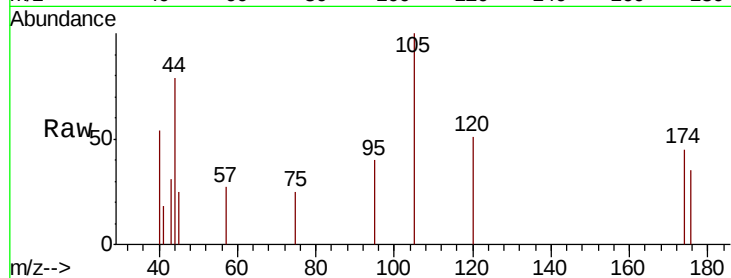
SOILS-1

Tot Ion:105 Resp: 1391

Ion Ratio Lower Upper

105 100

120 33.8 24.8 74.4



#81

trans-1,4-Dichloro-2-butene

Concen: 107.139 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN056463.D

Acq: 24 Jun 2019 18:07

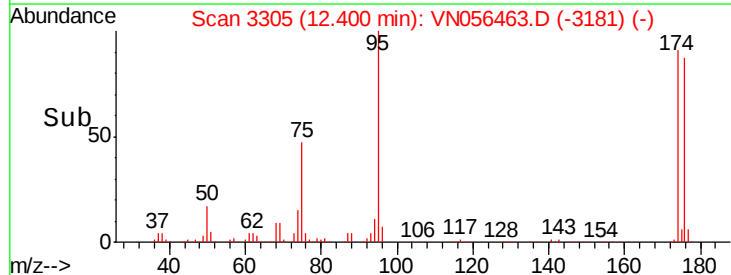
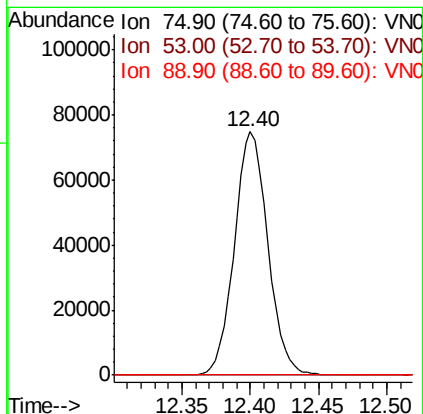
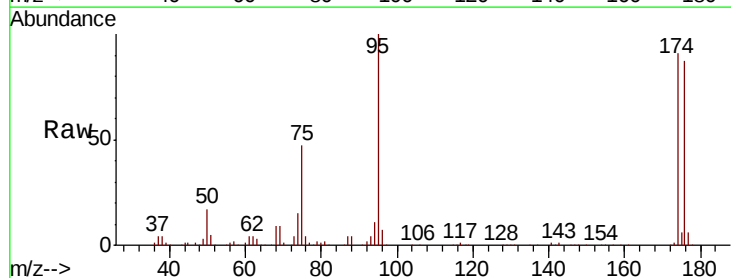
Tgt Ion: 75 Resp: 127051

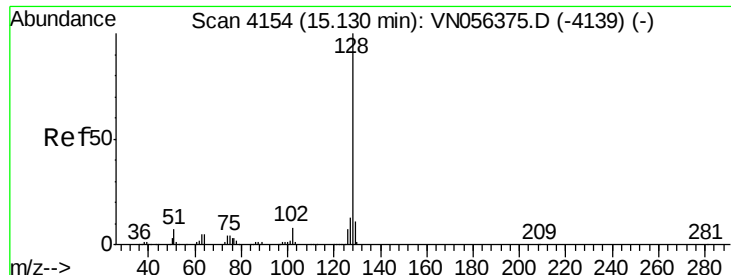
Ion Ratio Lower Upper

75 100

53 0.0 83.9 125.9#

89 0.0 35.0 52.6#





#95

Naphthalene

Concen: 5.540 ug/l

RT: 15.14 min Scan# 4156

Delta R.T. 0.01 min

Lab File: VN056463.D

Acq: 24 Jun 2019 18:07

Instrument :

MSVOA_N

ClientSampleId :

SOILS-1

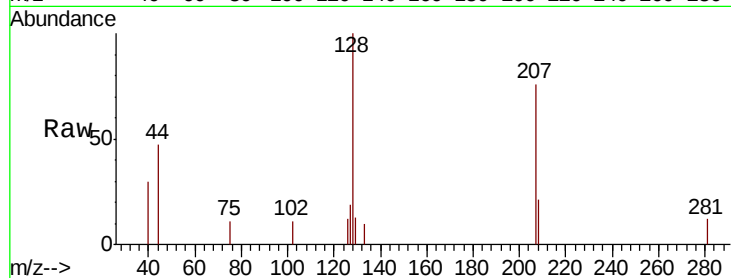
Tot Ion:128 Resp: 3068

Ion Ratio Lower Upper

128 100

127 9.1 10.2 15.2#

129 10.1 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

