

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN062419\
 Data File : VN056465.D
 Acq On : 24 Jun 2019 18:54
 Operator : JC/SP
 Sample : K3475-03
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 SOILS-3

Quant Time: Jun 25 01:24:06 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	394159	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	670683	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	656131	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	187552	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	222798	51.00	ug/l	0.00
Spiked Amount			Recovery	=	102.00%	
35) Dibromofluoromethane	7.59	113	192241	45.95	ug/l	0.00
Spiked Amount			Recovery	=	91.90%	
50) Toluene-d8	10.09	98	832970	51.16	ug/l	0.00
Spiked Amount			Recovery	=	102.32%	
62) 4-Bromofluorobenzene	12.40	95	267096	49.22	ug/l	0.00
Spiked Amount			Recovery	=	98.44%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.82	43	12284	5.613	ug/l	98
18) Methyl Acetate	4.33	43	5092	0.326	ug/l #	75
20) Methylene Chloride	4.55	84	7399	0.920	ug/l	95
25) 2-Butanone	6.85	43	998	0.345	ug/l #	49
29) Tetrahydrofuran	7.21	42	524	0.296	ug/l #	54
31) Cyclohexane	7.66	56	6312	0.936	ug/l #	1
36) 1,1-Dichloropropene	7.66	75	24502	4.151	ug/l #	49
38) Carbon Tetrachloride	7.67	117	33570	6.503	ug/l #	15
43) Isopropyl Acetate	8.17	43	14406	1.610	ug/l	95
45) 1,2-Dichloropropane	9.27	63	1879	0.387	ug/l #	43
48) Methyl methacrylate	9.18	41	9594	2.140	ug/l #	12
51) 4-Methyl-2-Pentanone	9.99	43	5147	0.891	ug/l	95
54) cis-1,3-Dichloropropene	9.90	75	65570	10.105	ug/l #	62
57) 1,3-Dichloropropane	10.76	76	12983	1.732	ug/l #	42
59) 2-Hexanone	10.76	43	171772	40.479	ug/l #	50
71) Bromoform	12.40	173	1913	3.641	ug/l #	1
73) Isopropylbenzene	12.41	105	64	Below Cal	#	48
74) N-amyl acetate	11.88	43	13001	2.178	ug/l #	52
76) 1,2,3-Trichloropropane	12.40	75	122475	31.493	ug/l #	100
79) 2-Chlorotoluene	12.59	91	416	Below Cal	#	40
80) 1,3,5-Trimethylbenzene	12.74	105	935	Below Cal		95
81) trans-1,4-Dichloro-2-buten	12.40	75	122475	111.932	ug/l #	8
95) Naphthalene	15.13	128	352	5.281	ug/l #	70

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN056465.D

Acq: 24 Jun 2019 18:54

Instrument :

MSVOA_N

ClientSampled :

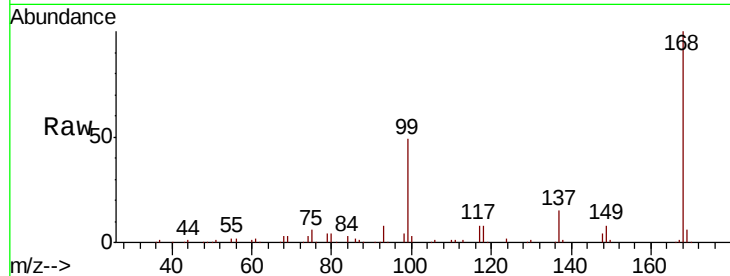
SOILS-3

Tot Ion:168 Resp: 394159

Ion Ratio Lower Upper

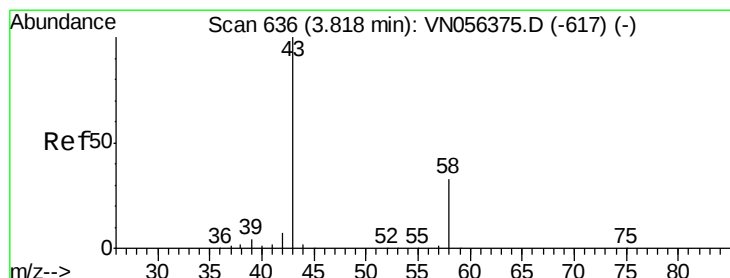
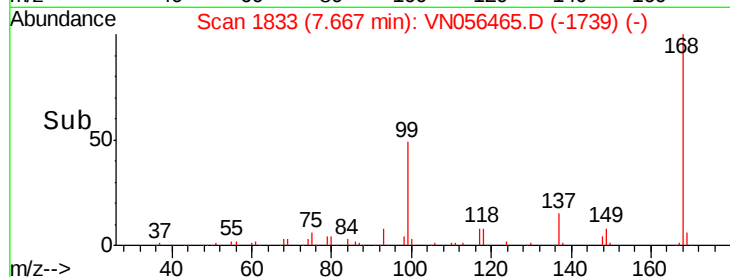
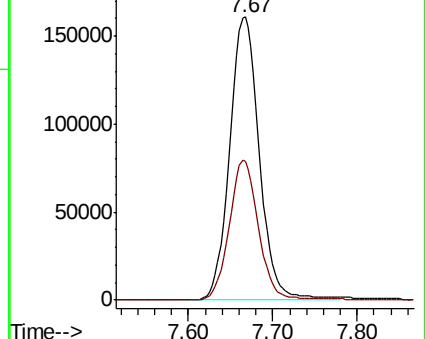
168 100

99 49.0 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: 5.613 ug/l

RT: 3.82 min Scan# 637

Delta R.T. 0.00 min

Lab File: VN056465.D

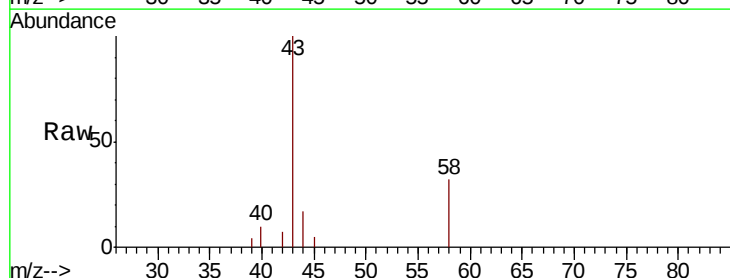
Acq: 24 Jun 2019 18:54

Tgt Ion: 43 Resp: 12284

Ion Ratio Lower Upper

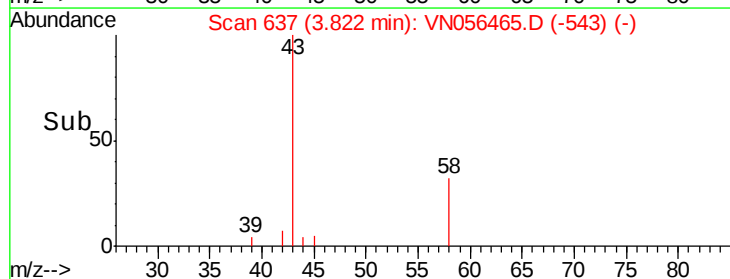
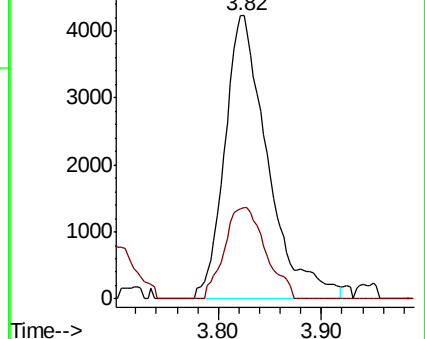
43 100

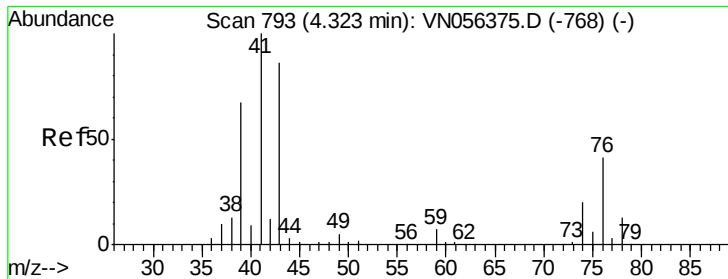
58 31.7 26.4 39.6



Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 58.00 (57.70 to 58.70): VNO

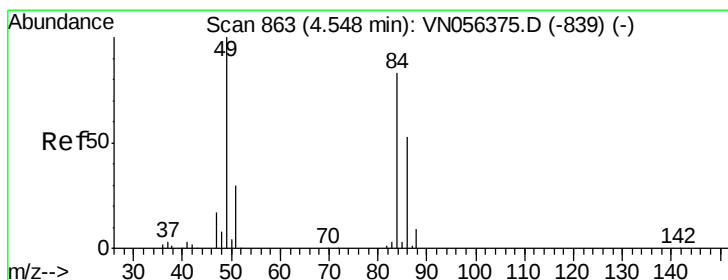
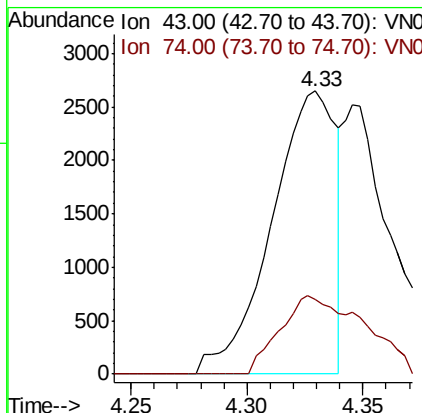
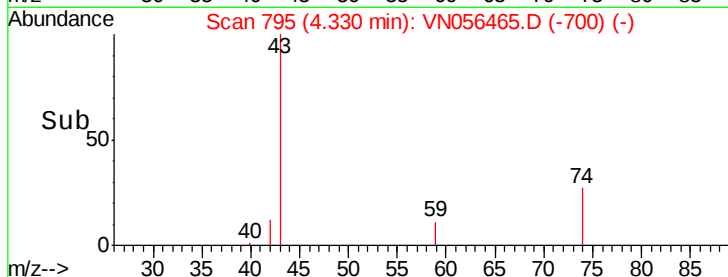
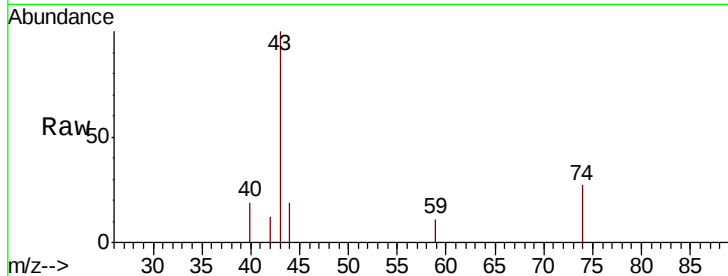




#18
Methyl Acetate
Concen: 0.326 ug/l
RT: 4.33 min Scan# 795
Delta R.T. 0.01 min
Lab File: VN056465.D
Acq: 24 Jun 2019 18:54

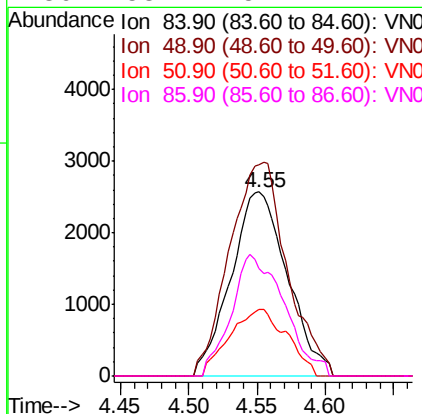
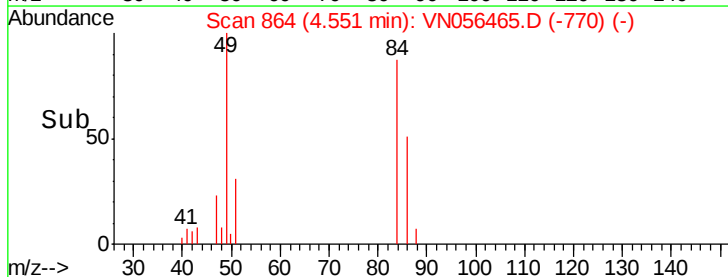
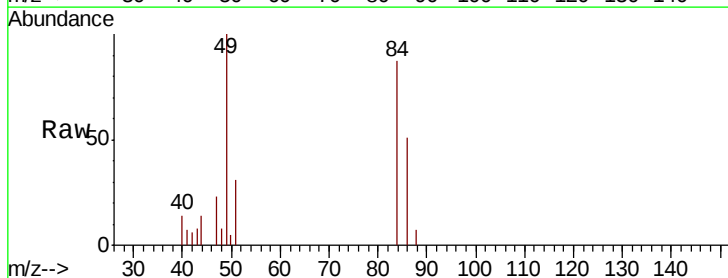
Instrument :
MSVOA_N
ClientSampled :
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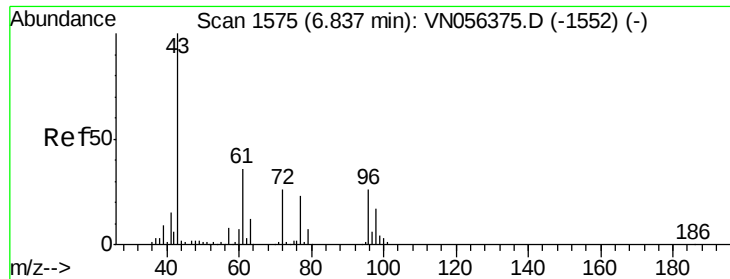
Tot Ion: 43 Resp: 5092
Ion Ratio Lower Upper
43 100
74 36.5 19.2 28.8#



#20
Methylene Chloride
Concen: 0.920 ug/l
RT: 4.55 min Scan# 864
Delta R.T. 0.00 min
Lab File: VN056465.D
Acq: 24 Jun 2019 18:54

Tgt Ion: 84 Resp: 7399
Ion Ratio Lower Upper
84 100
49 114.8 96.4 144.6
51 36.1 28.6 43.0
86 58.4 51.4 77.2





#25

2-Butanone

Concen: 0.345 ug/l

RT: 6.85 min Scan# 1578

Delta R.T. 0.01 min

Lab File: VN056465.D

Acq: 24 Jun 2019 18:54

Instrument :

MSVOA_N

ClientSampled :

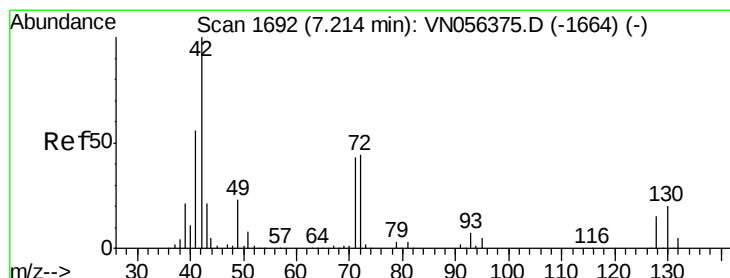
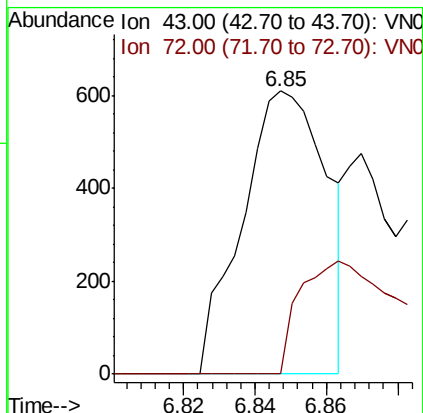
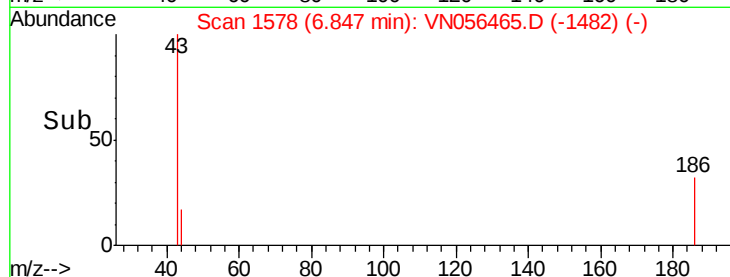
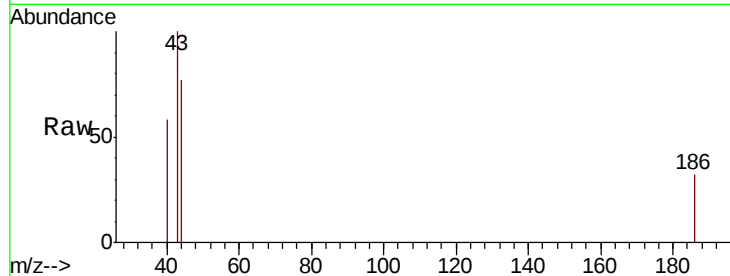
SOILS-3

Tot Ion: 43 Resp: 998

Ion Ratio Lower Upper

43 100

72 0.0 20.6 31.0#



#29

Tetrahydrofuran

Concen: 0.296 ug/l

RT: 7.21 min Scan# 1691

Delta R.T. -0.00 min

Lab File: VN056465.D

Acq: 24 Jun 2019 18:54

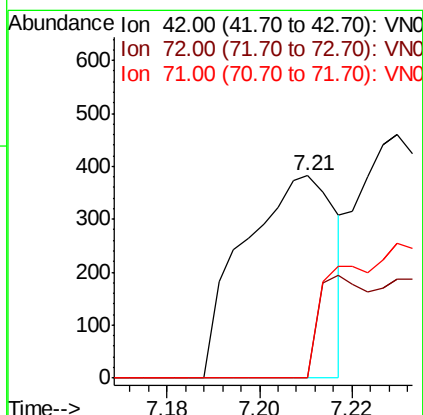
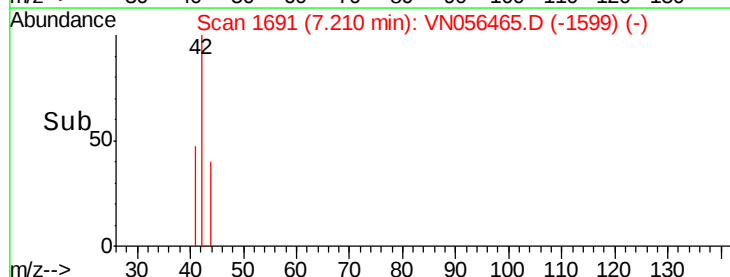
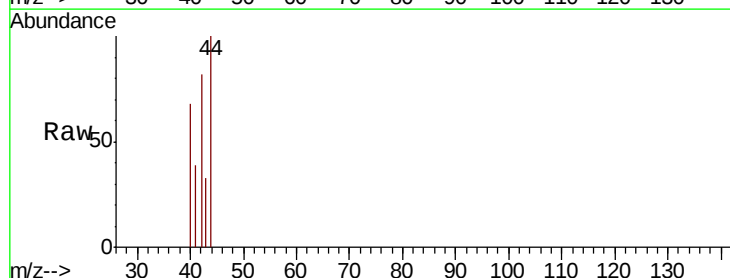
Tgt Ion: 42 Resp: 524

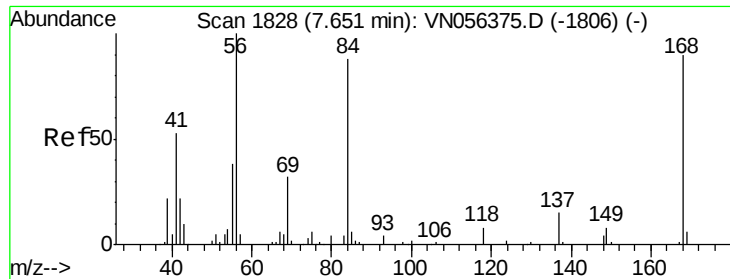
Ion Ratio Lower Upper

42 100

72 26.1 34.7 52.1#

71 0.0 33.0 49.6#

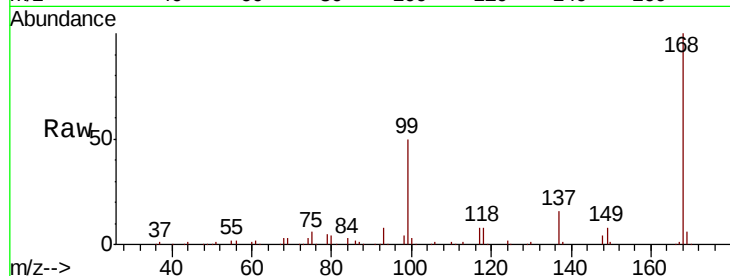




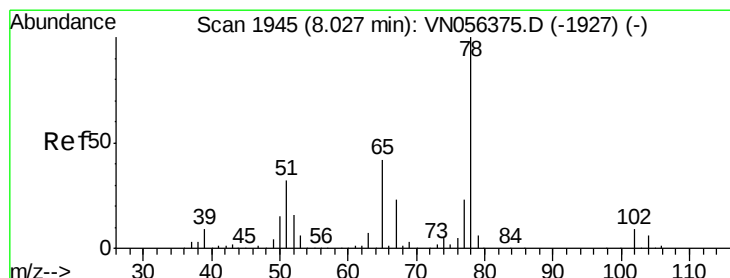
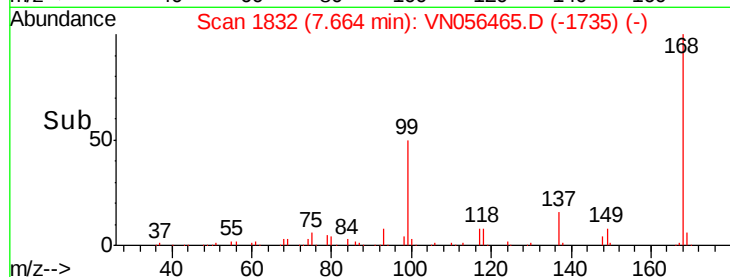
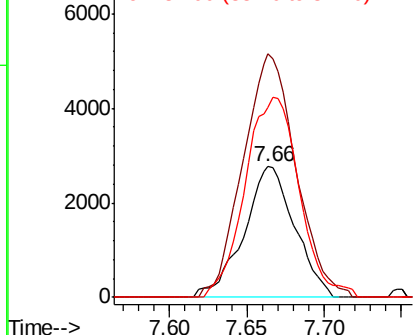
#31
Cyclohexane
Concen: 0.936 ug/l
RT: 7.66 min Scan# 1832
Delta R.T. 0.01 min
Lab File: VN056465.D
Acq: 24 Jun 2019 18:54

Instrument :
MSVOA_N
ClientSampled :
SOILS-3

Tot Ion: 56 Resp: 6312
Ion Ratio Lower Upper
56 100
69 186.1 25.8 38.6#
84 145.5 69.4 104.0#

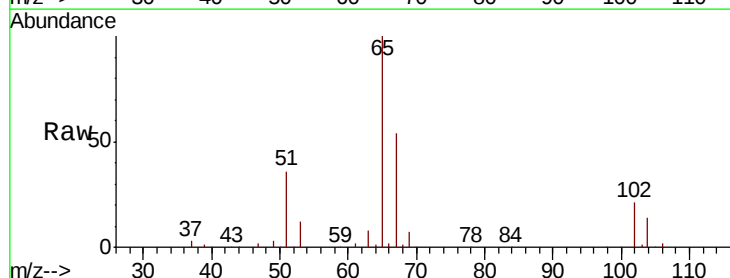


Abundance Ion 56.00 (55.70 to 56.70): VNC
Ion 69.00 (68.70 to 69.70): VNC
Ion 84.00 (83.70 to 84.70): VNC

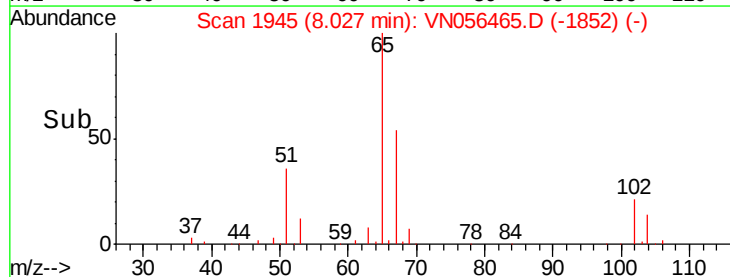
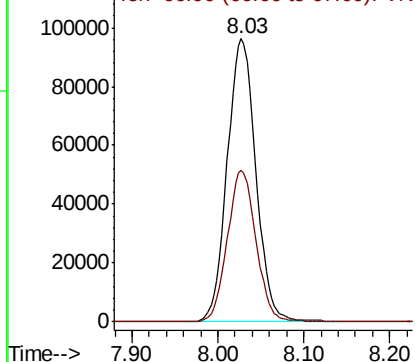


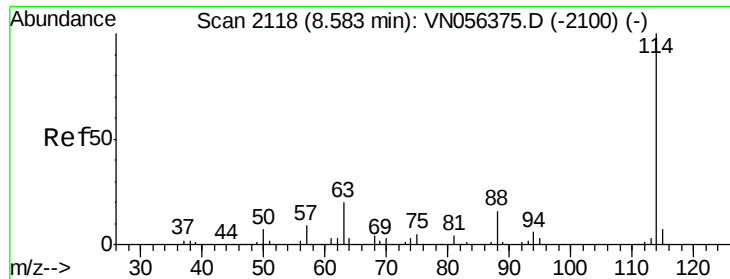
#33
1,2-Dichloroethane-d4
Concen: 51.001 ug/l
RT: 8.03 min Scan# 1945
Delta R.T. 0.00 min
Lab File: VN056465.D
Acq: 24 Jun 2019 18:54

Tgt Ion: 65 Resp: 222798
Ion Ratio Lower Upper
65 100
67 53.5 0.0 109.0



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

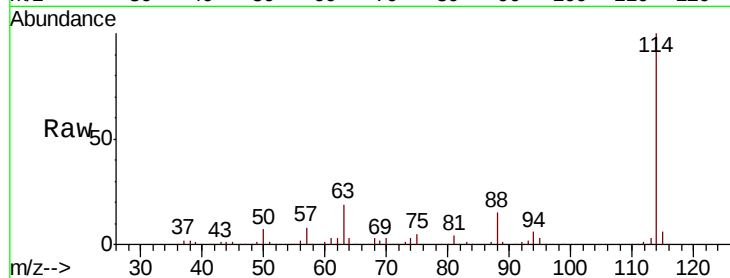




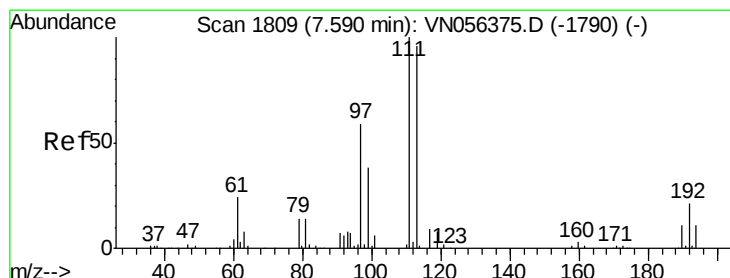
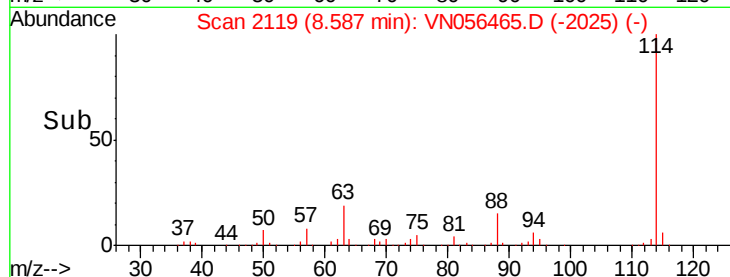
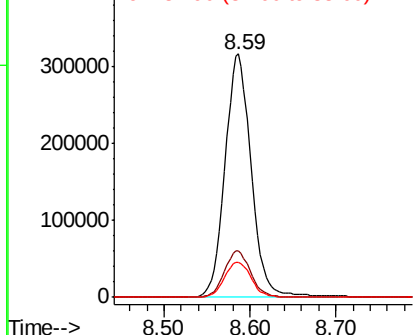
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN056465.D
 Acq: 24 Jun 2019 18:54

Instrument :
 MSVOA_N
 ClientSampleId :
 SOILS-3

Tot Ion:114 Resp: 670683
 Ion Ratio Lower Upper
 114 100
 63 19.0 0.0 39.2
 88 14.6 0.0 31.4

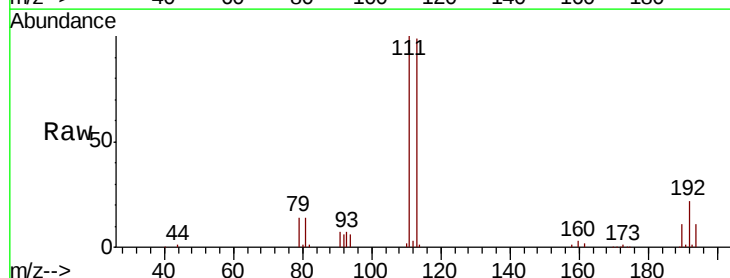


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): V
 Ion 87.90 (87.60 to 88.60): V

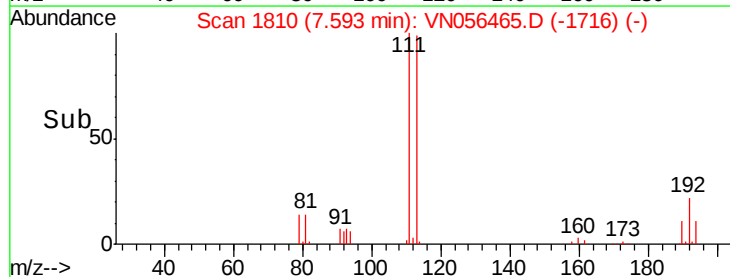
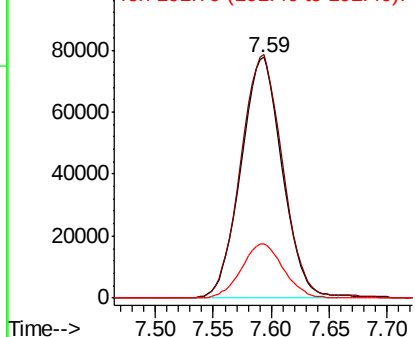


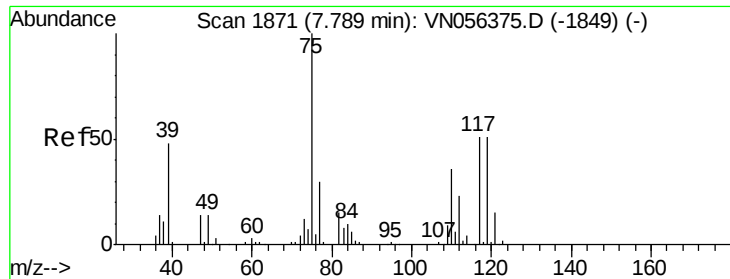
#35
 Dibromofluoromethane
 Concen: 45.947 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN056465.D
 Acq: 24 Jun 2019 18:54

Tgt Ion:113 Resp: 192241
 Ion Ratio Lower Upper
 113 100
 111 102.8 82.9 124.3
 192 22.9 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

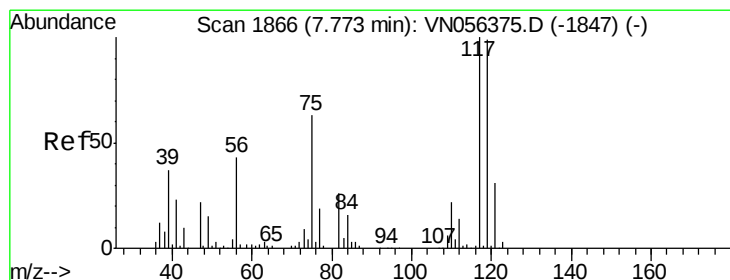
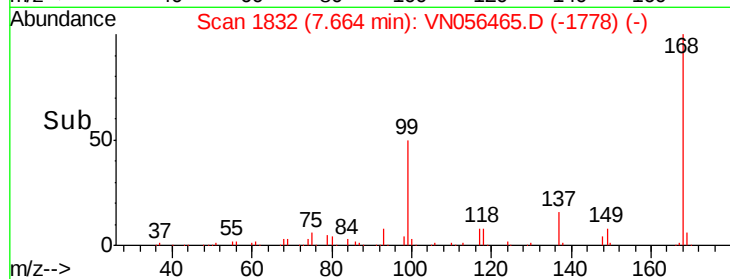
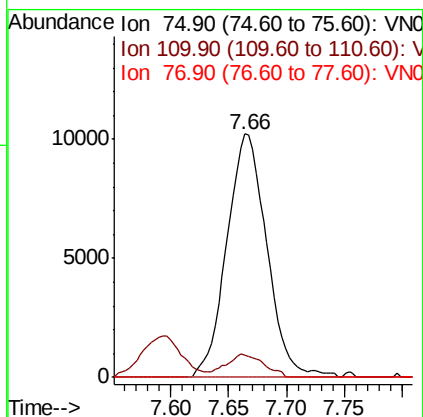
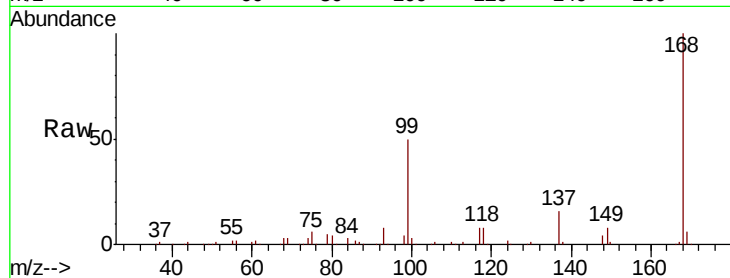




#36
 1,1-Dichloropropene
 Concen: 4.151 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.13 min
 Lab File: VN056465.D
 Acq: 24 Jun 2019 18:54

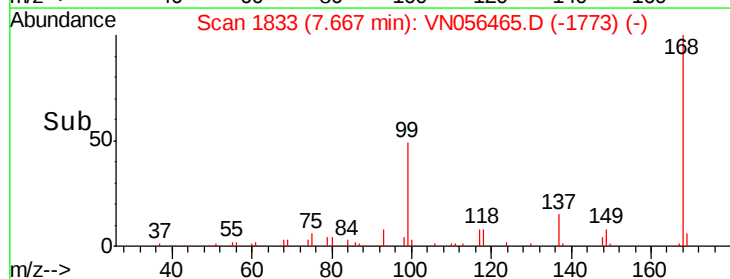
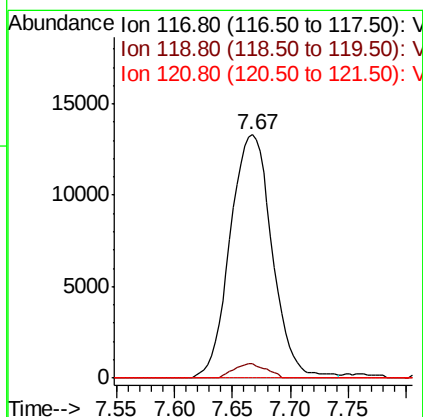
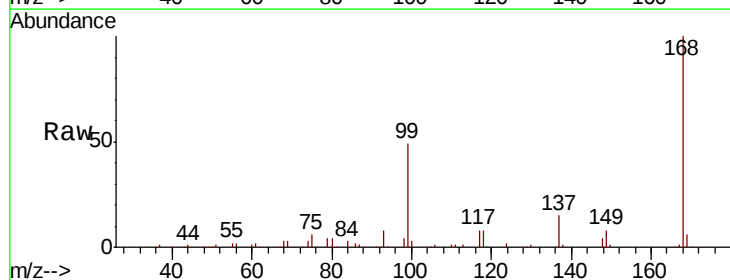
Instrument :
 MSVOA_N
 ClientSampled :
 SOILS-3

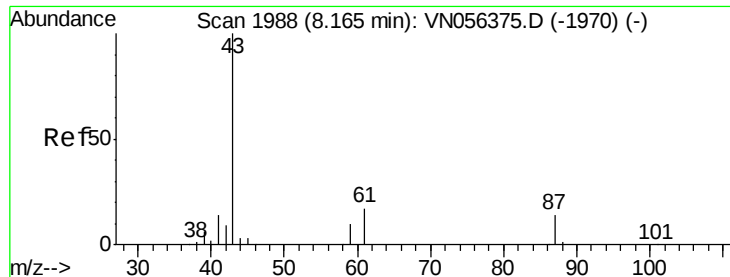
Tot Ion	75	Resp	24502
Ion Ratio	Lower	Upper	
75	100		
110	9.0	18.1	54.3#
77	0.0	24.6	36.8#



#38
 Carbon Tetrachloride
 Concen: 6.503 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.11 min
 Lab File: VN056465.D
 Acq: 24 Jun 2019 18:54

Tgt Ion	117	Resp	33570
Ion Ratio	Lower	Upper	
117	100		
119	5.8	79.1	118.7#
121	0.0	24.8	37.2#





#43

Isopropyl Acetate

Concen: 1.610 ug/l

RT: 8.17 min Scan# 1989

Delta R.T. 0.00 min

Lab File: VN056465.D

Acq: 24 Jun 2019 18:54

Instrument :

MSVOA_N

ClientSampleId :

SOILS-3

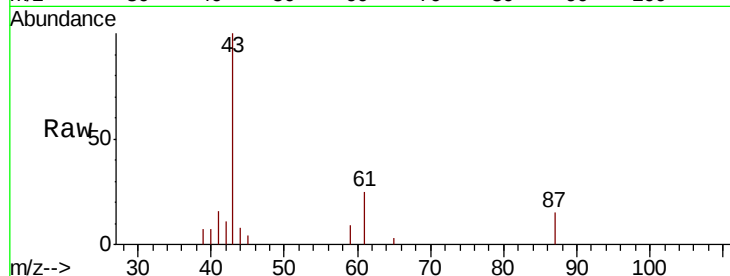
Tot Ion: 43 Resp: 14406

Ion Ratio Lower Upper

43 100

61 23.4 22.0 33.0

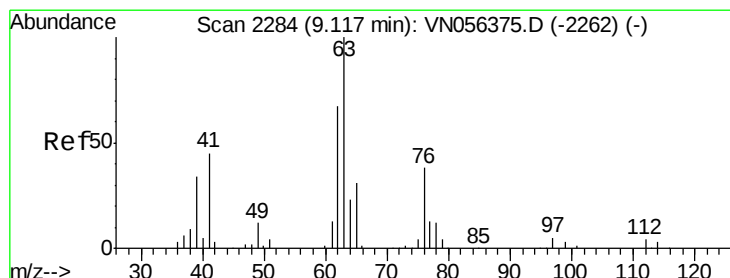
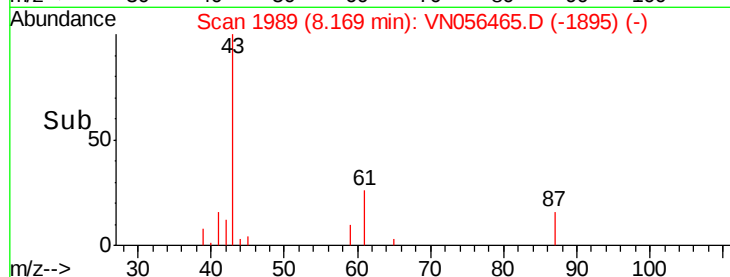
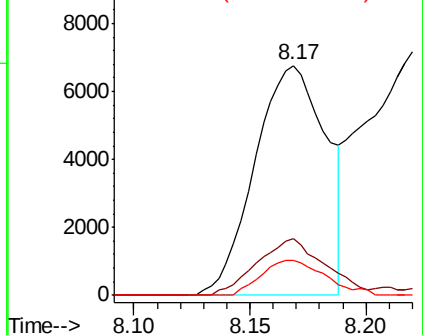
87 13.8 11.0 16.4



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0



#45

1,2-Dichloropropane

Concen: 0.387 ug/l

RT: 9.27 min Scan# 2330

Delta R.T. 0.15 min

Lab File: VN056465.D

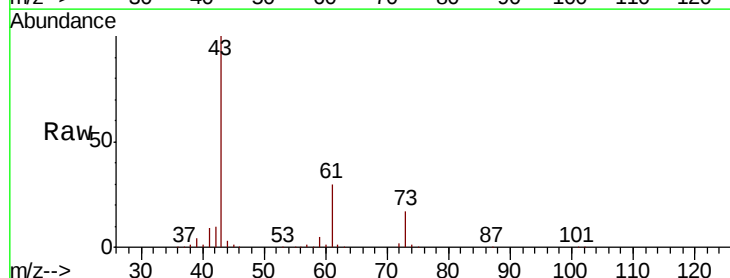
Acq: 24 Jun 2019 18:54

Tgt Ion: 63 Resp: 1879

Ion Ratio Lower Upper

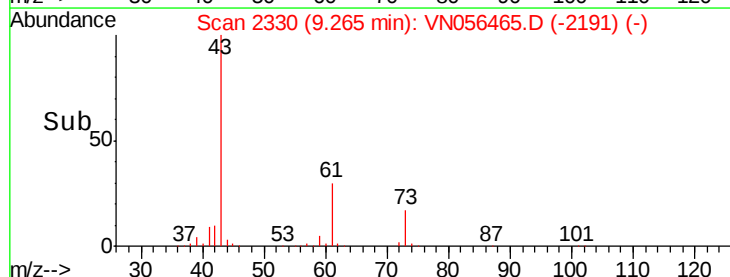
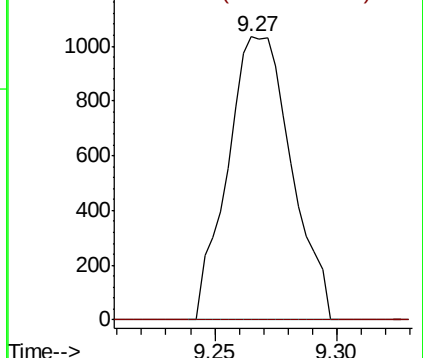
63 100

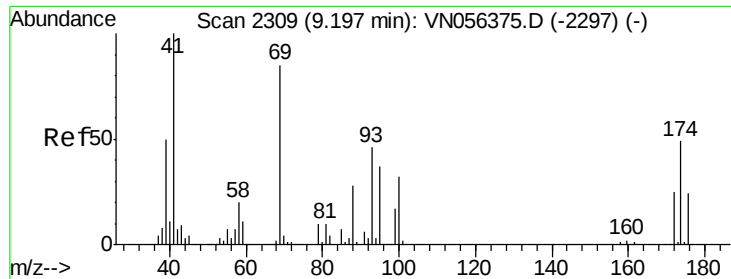
65 0.0 25.0 37.6#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0

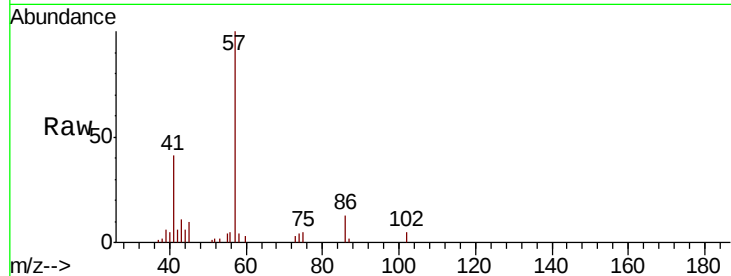




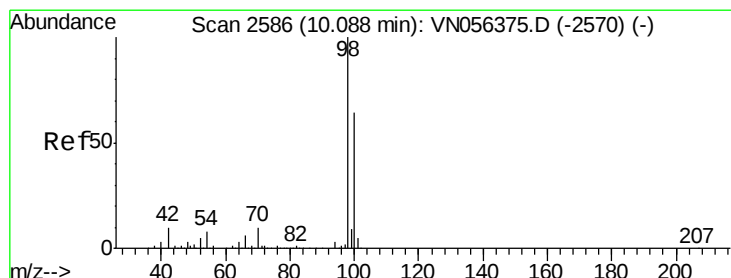
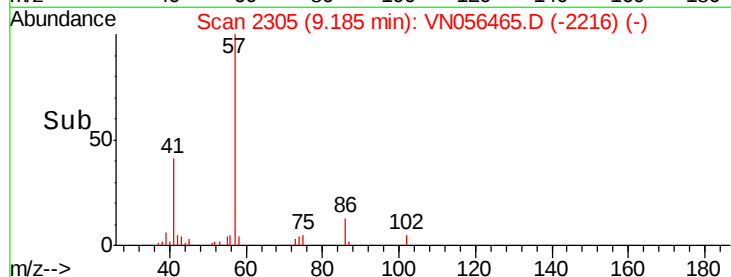
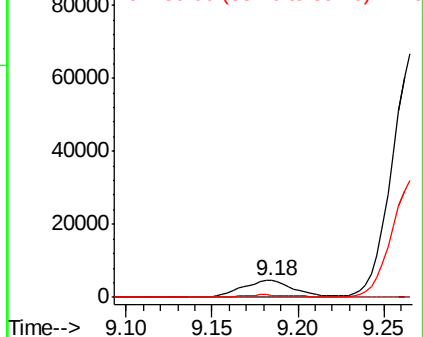
#48
Methvl methacrylate
Concen: 2.140 ug/l
RT: 9.18 min Scan# 2305
Delta R.T. -0.01 min
Lab File: VN056465.D
Acq: 24 Jun 2019 18:54

Instrument :
MSVOA_N
ClientSampleId :
SOILS-3

Tot Ion: 41 Resp: 9594
Ion Ratio Lower Upper
41 100
69 0.0 72.6 109.0#
39 0.0 42.6 63.8#

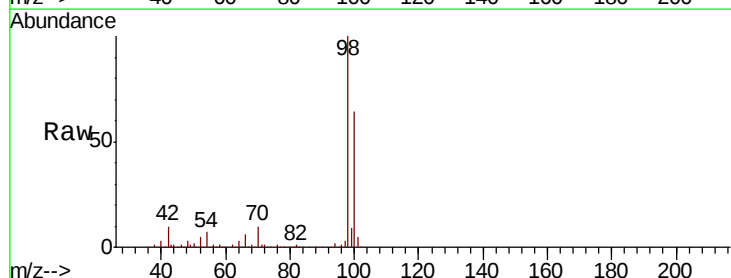


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

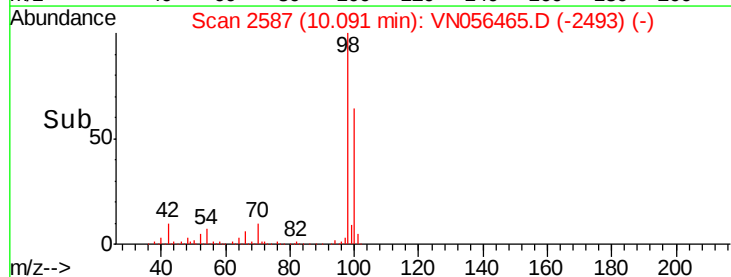
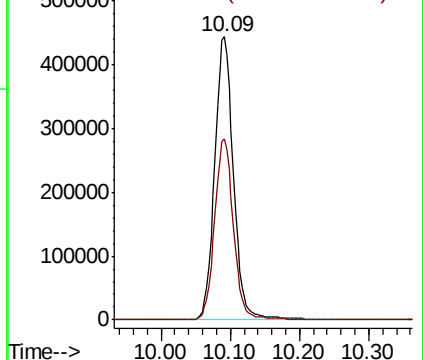


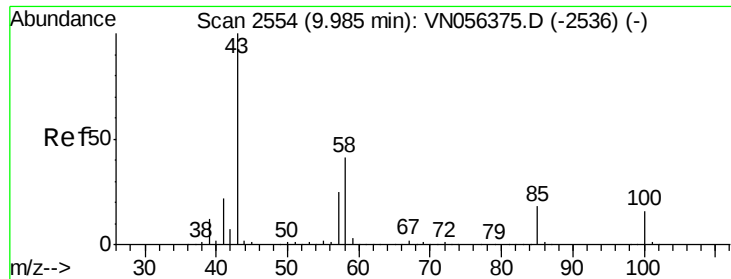
#50
Toluene-d8
Concen: 51.165 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN056465.D
Acq: 24 Jun 2019 18:54

Tgt Ion: 98 Resp: 832970
Ion Ratio Lower Upper
98 100
100 64.0 52.2 78.2



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

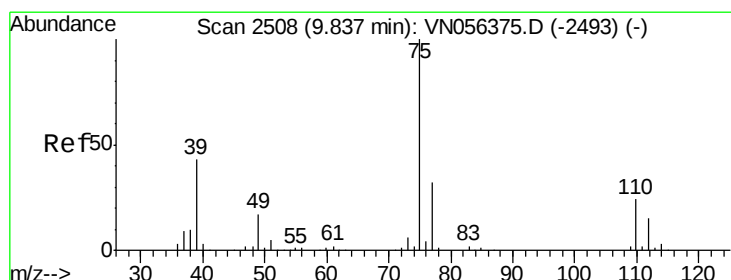
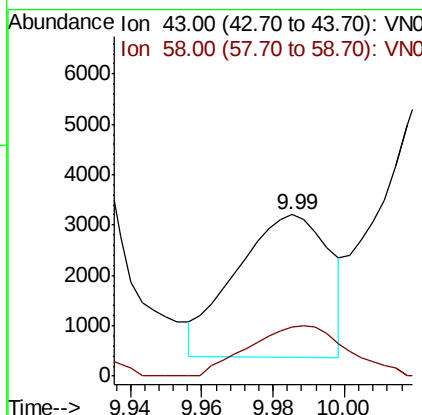
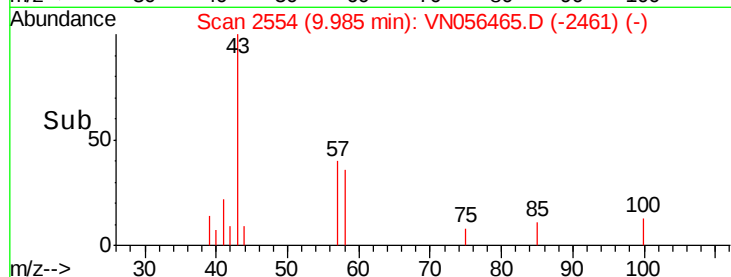
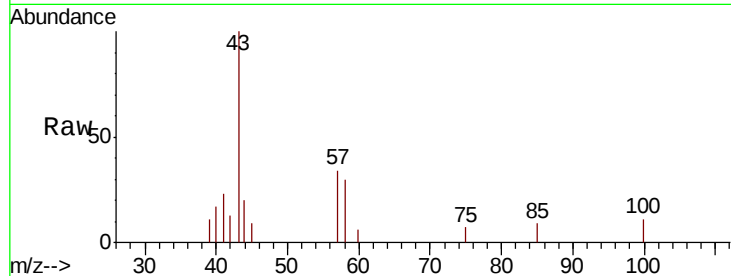




#51
4-Methyl-2-Pentanone
Concen: 0.891 ug/l
RT: 9.99 min Scan# 2554
Delta R.T. 0.00 min
Lab File: VN056465.D
Acq: 24 Jun 2019 18:54

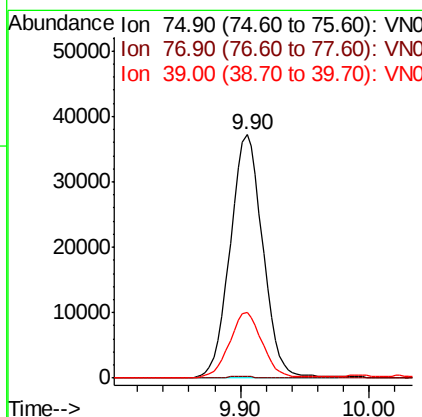
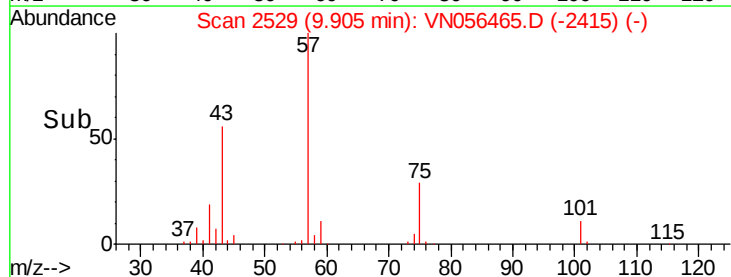
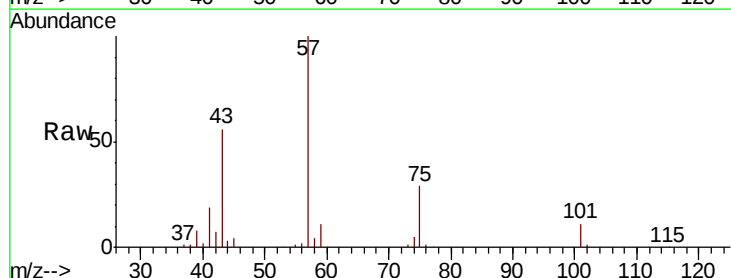
Instrument :
MSVOA_N
ClientSampled :
SOILS-3

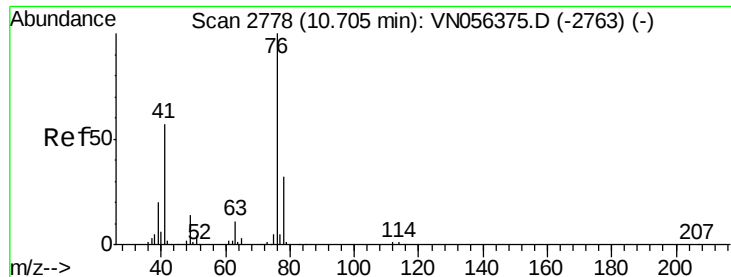
Tot Ion: 43 Resp: 5147
Ion Ratio Lower Upper
43 100
58 36.9 31.8 47.8



#54
cis-1,3-Dichloropropene
Concen: 10.105 ug/l
RT: 9.90 min Scan# 2529
Delta R.T. 0.07 min
Lab File: VN056465.D
Acq: 24 Jun 2019 18:54

Tgt Ion: 75 Resp: 65570
Ion Ratio Lower Upper
75 100
77 0.5 25.2 37.8#
39 26.8 34.2 51.4#

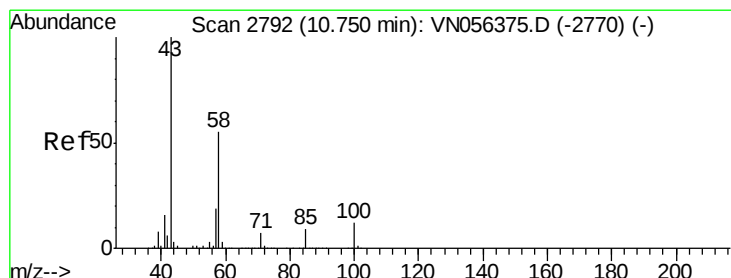
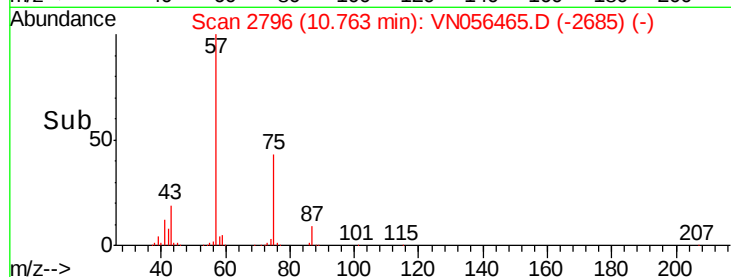
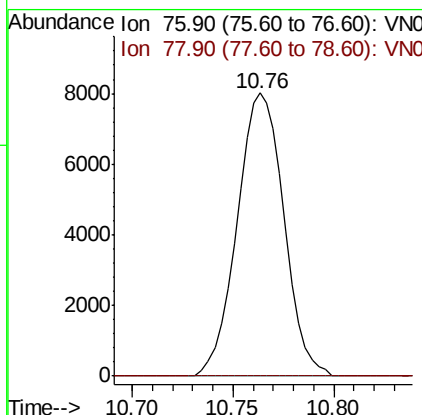
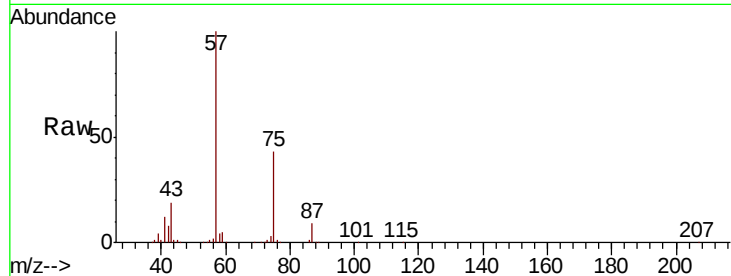




#57
 1,3-Dichloropropane
 Concen: 1.732 ug/l
 RT: 10.76 min Scan# 2796
 Delta R.T. 0.06 min
 Lab File: VN056465.D
 Acq: 24 Jun 2019 18:54

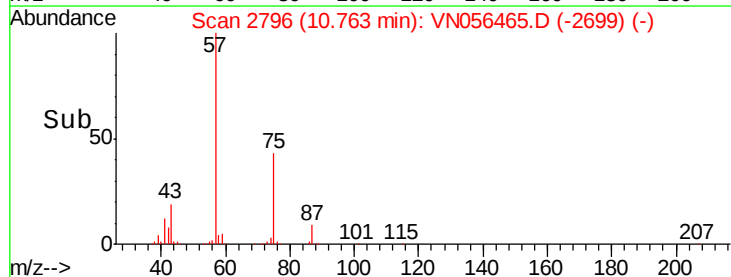
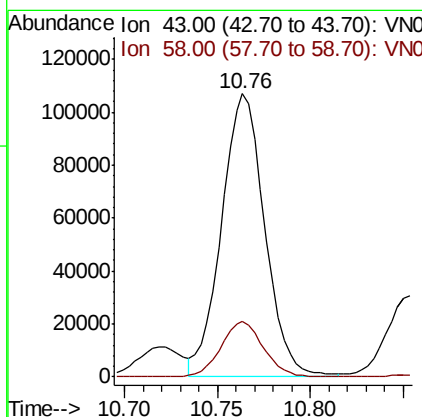
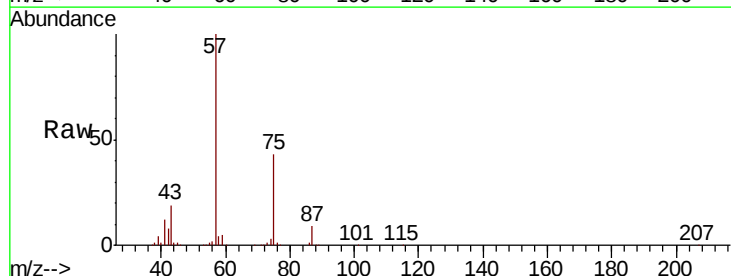
Instrument :
 MSVOA_N
 ClientSampled :
 SOILS-3

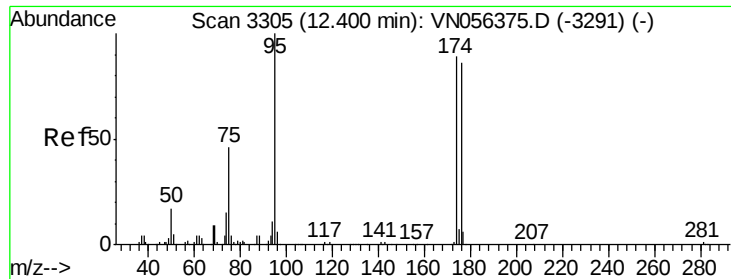
Tot Ion: 76 Resp: 12983
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.9 38.9#



#59
 2-Hexanone
 Concen: 40.479 ug/l
 RT: 10.76 min Scan# 2796
 Delta R.T. 0.01 min
 Lab File: VN056465.D
 Acq: 24 Jun 2019 18:54

Tgt Ion: 43 Resp: 171772
 Ion Ratio Lower Upper
 43 100
 58 19.4 27.8 83.4#

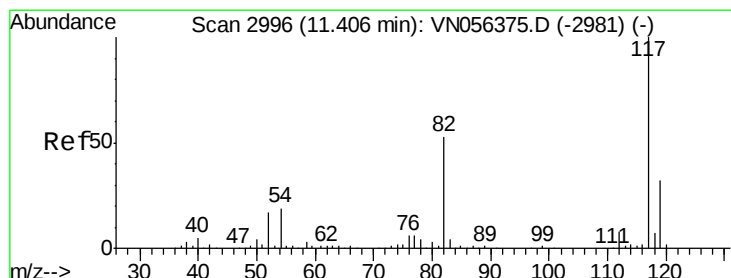
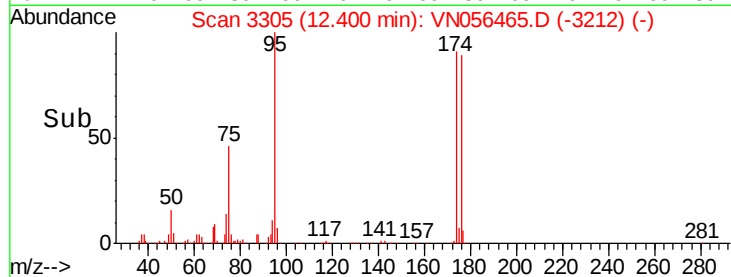
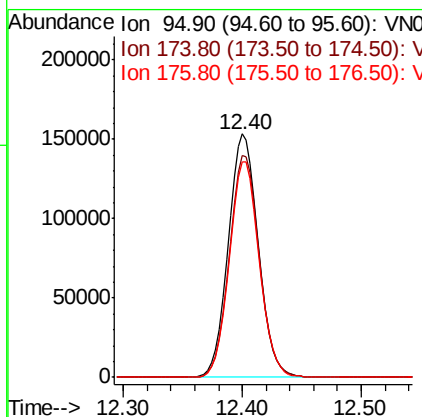
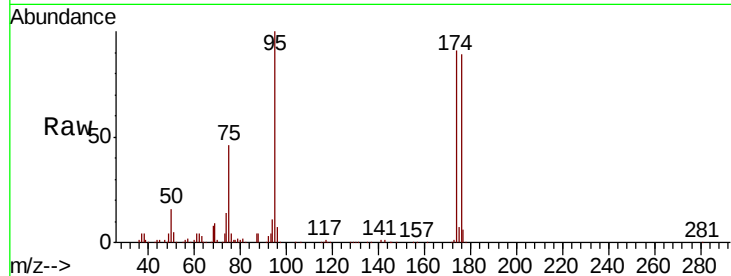




#62
4-Bromofluorobenzene
Concen: 49.215 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.00 min
Lab File: VN056465.D
Acq: 24 Jun 2019 18:54

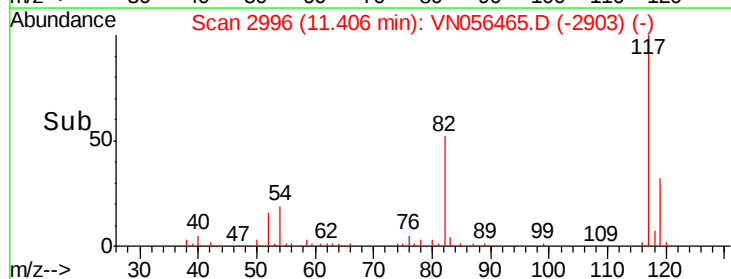
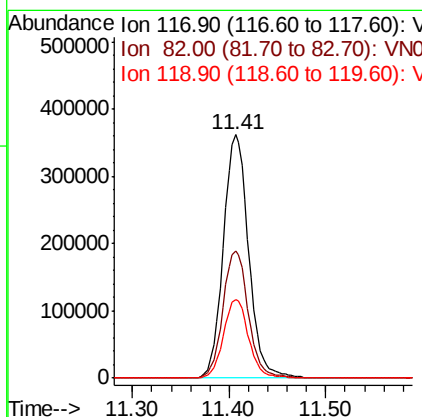
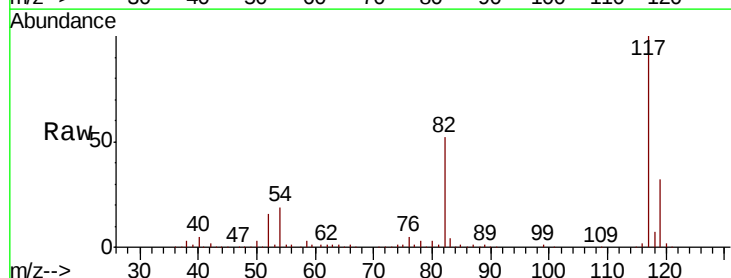
Instrument :
MSVOA_N
ClientSampled :
SOILS-3

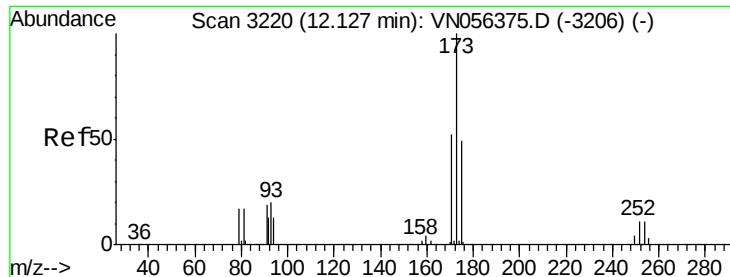
Tot Ion: 95 Resp: 267096
Ion Ratio Lower Upper
95 100
174 91.4 0.0 179.4
176 88.5 0.0 173.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN056465.D
Acq: 24 Jun 2019 18:54

Tgt Ion: 117 Resp: 656131
Ion Ratio Lower Upper
117 100
82 52.4 42.0 63.0
119 32.5 25.3 37.9





#71

Bromoform

Concen: 3.641 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.27 min

Lab File: VN056465.D

Acq: 24 Jun 2019 18:54

Instrument :

MSVOA_N

ClientSampled :

SOILS-3

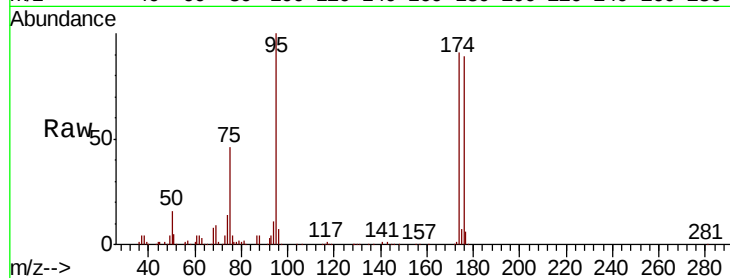
Tot Ion:173 Resp: 1913

Ion Ratio Lower Upper

173 100

175 813.6 24.4 73.4#

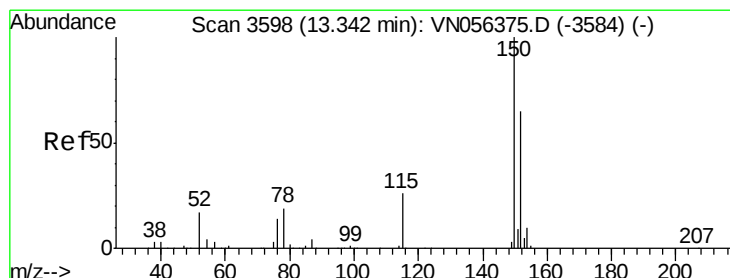
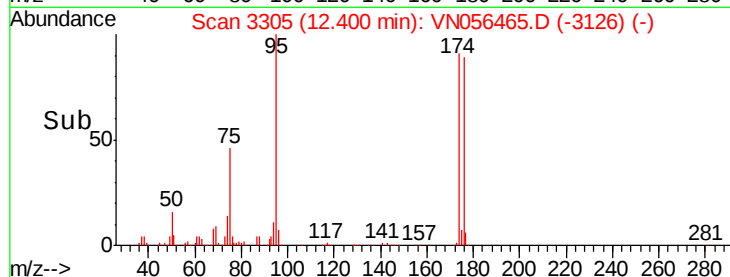
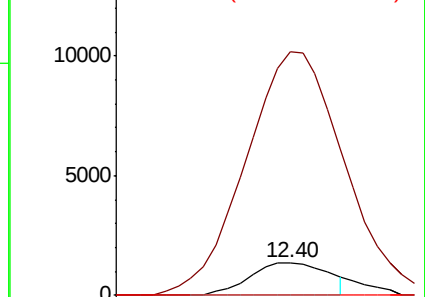
254 0.0 0.0 0.0



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: VN056465.D

Acq: 24 Jun 2019 18:54

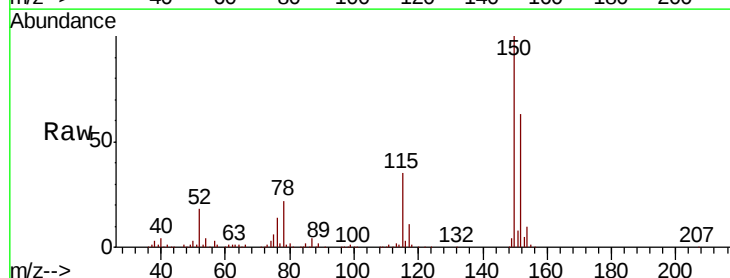
Tgt Ion:152 Resp: 187552

Ion Ratio Lower Upper

152 100

115 55.5 28.1 84.4

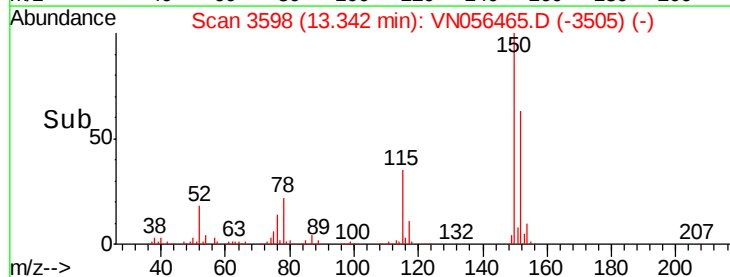
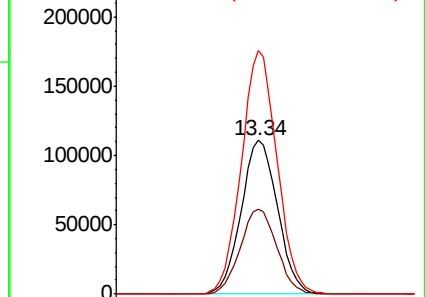
150 155.8 0.0 348.4

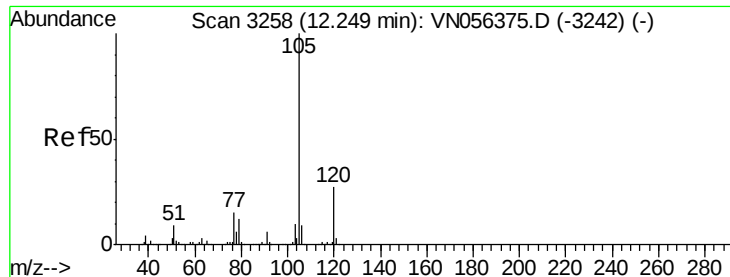


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: Below Cal

RT: 12.41 min Scan# 3307

Delta R.T. 0.16 min

Lab File: VN056465.D

Acq: 24 Jun 2019 18:54

Instrument :

MSVOA_N

ClientSampleId :

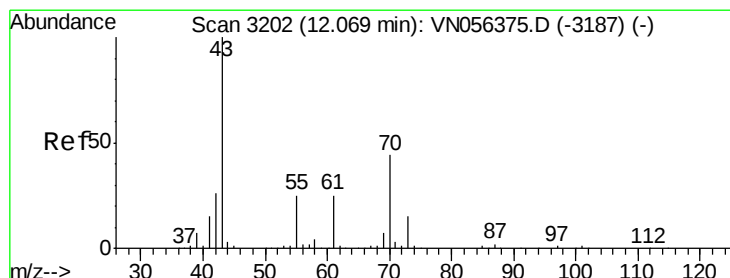
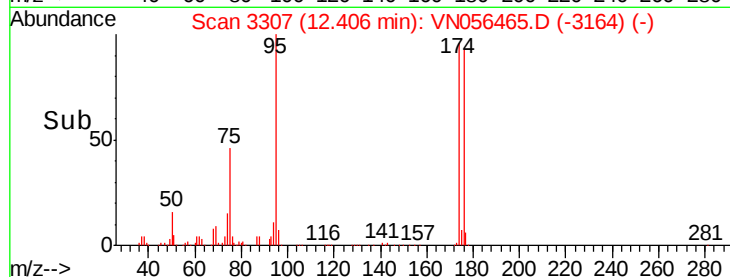
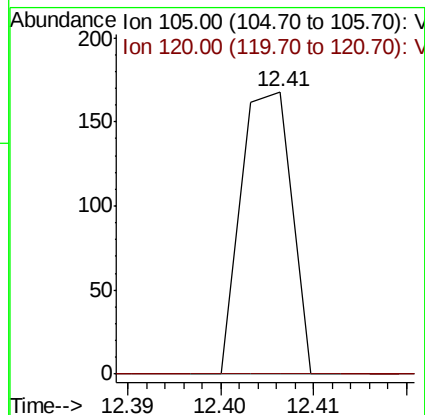
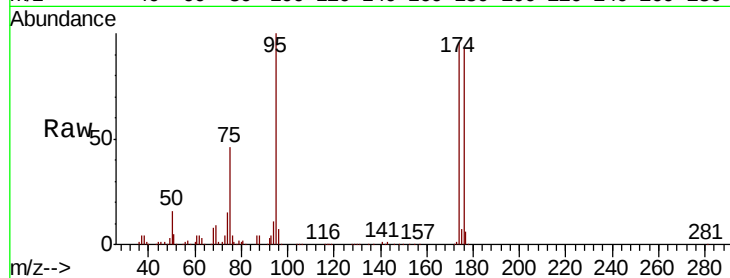
SOILS-3

Tot Ion:105 Resp: 64

Ion Ratio Lower Upper

105 100

120 0.0 13.4 40.2#



#74

N-ethyl acetate

Concen: 2.178 ug/l

RT: 11.88 min Scan# 3143

Delta R.T. -0.19 min

Lab File: VN056465.D

Acq: 24 Jun 2019 18:54

Tgt Ion: 43 Resp: 13001

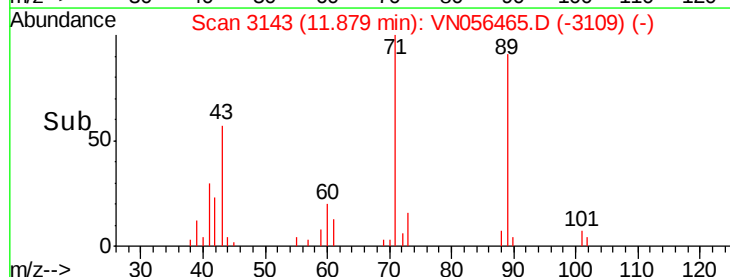
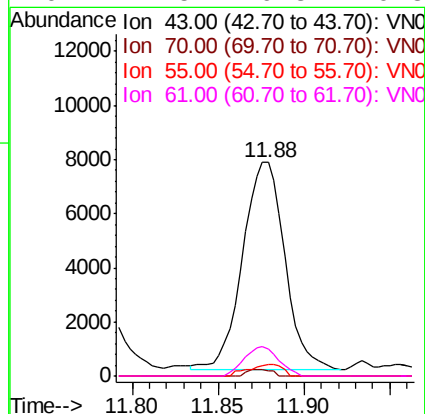
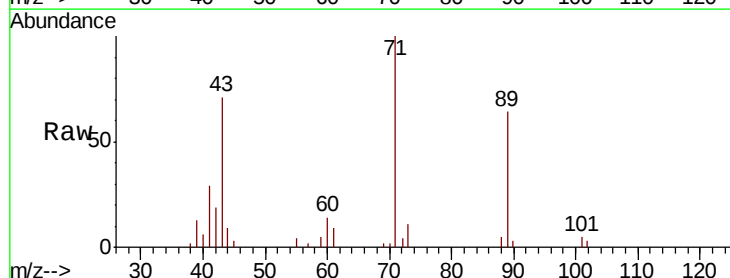
Ion Ratio Lower Upper

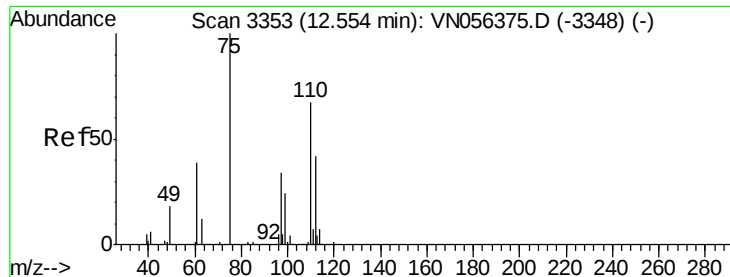
43 100

70 1.9 34.9 52.3#

55 4.6 20.4 30.6#

61 11.5 19.8 29.8#





#76

1,2,3-Trichloropropane

Concen: 31.493 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN056465.D

Acq: 24 Jun 2019 18:54

Instrument :

MSVOA_N

ClientSampled :

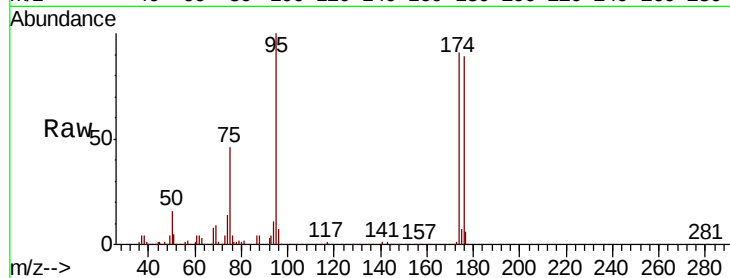
SOILS-3

Tot Ion: 75 Resp: 122475

Ion Ratio Lower Upper

75 100

77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

12.40

80000

60000

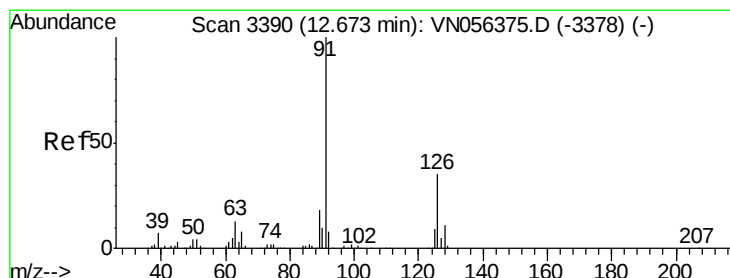
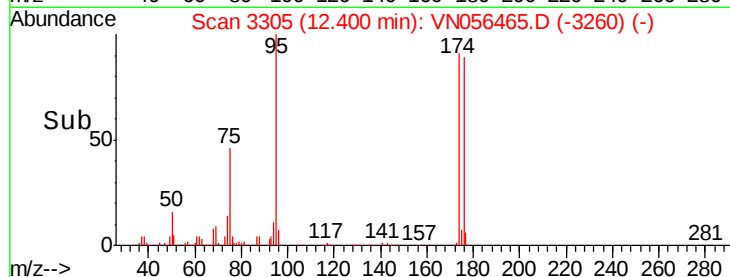
40000

20000

0

12.35 12.40 12.45 12.50

Time-->



#79

2-Chlorotoluene

Concen: Below Cal

RT: 12.59 min Scan# 3365

Delta R.T. -0.08 min

Lab File: VN056465.D

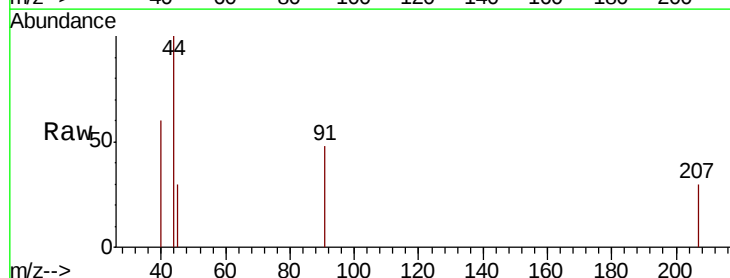
Acq: 24 Jun 2019 18:54

Tgt Ion: 91 Resp: 416

Ion Ratio Lower Upper

91 100

126 0.0 17.6 52.8#



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 125.90 (125.60 to 126.60): V

12.59

300

250

200

150

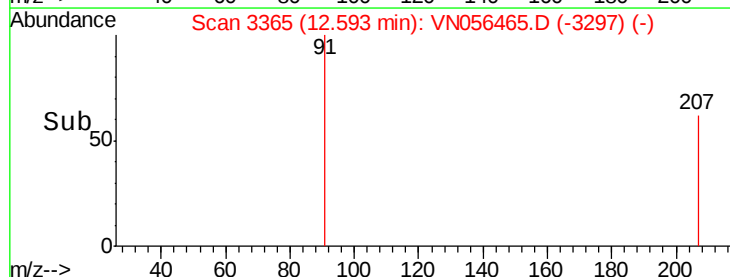
100

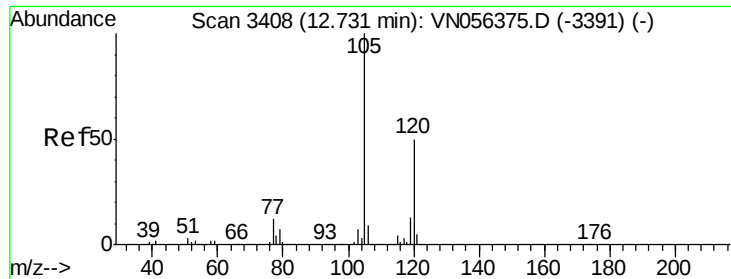
50

0

12.56 12.58 12.60 12.62

Time-->

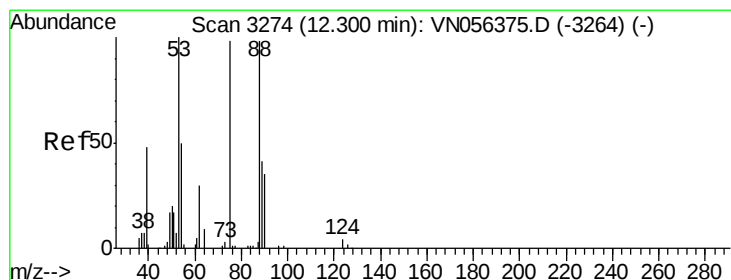
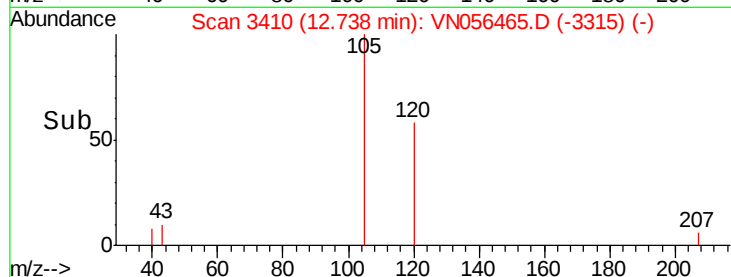
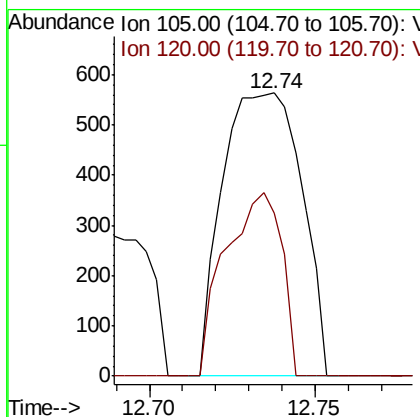
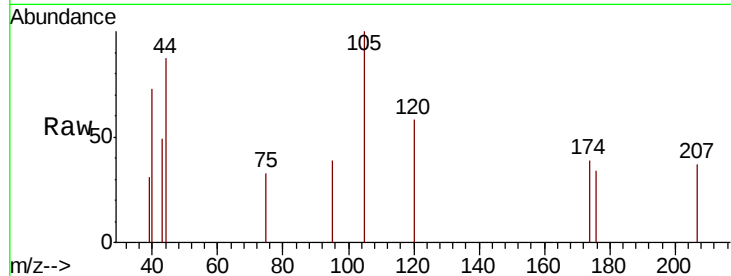




#80
 1,3,5-Trimethylbenzene
 Concen: Below Cal
 RT: 12.74 min Scan# 3410
 Delta R.T. 0.01 min
 Lab File: VN056465.D
 Acq: 24 Jun 2019 18:54

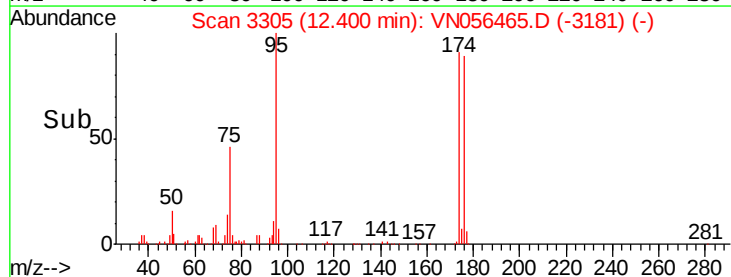
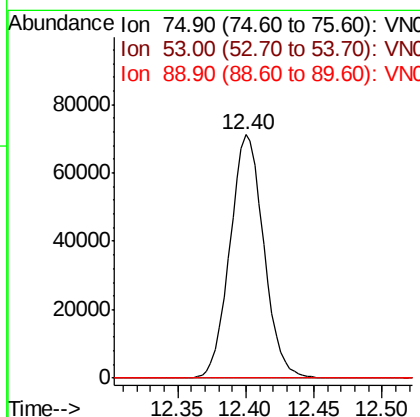
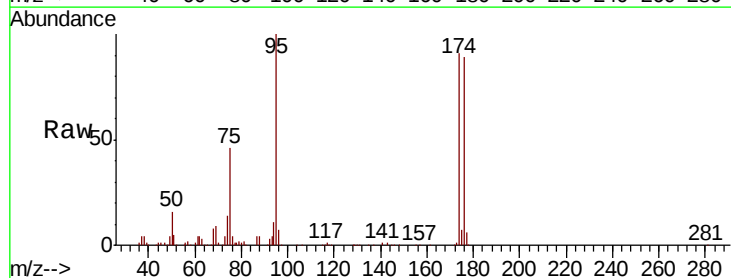
Instrument :
 MSVOA_N
 ClientSampleId :
 SOILS-3

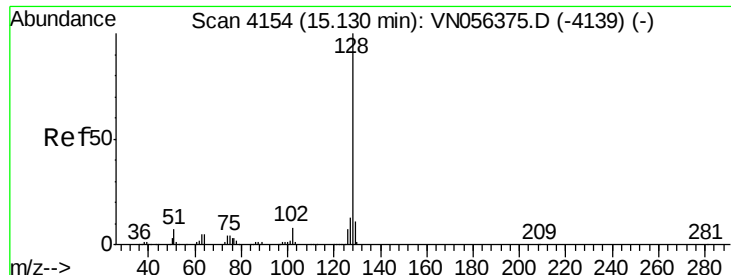
Tot Ion: 105 Resp: 935
 Ion Ratio Lower Upper
 105 100
 120 46.3 24.8 74.4



#81
 trans-1,4-Dichloro-2-butene
 Concen: 111.932 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. 0.10 min
 Lab File: VN056465.D
 Acq: 24 Jun 2019 18:54

Tgt Ion: 75 Resp: 122475
 Ion Ratio Lower Upper
 75 100
 53 0.0 83.9 125.9#
 89 0.0 35.0 52.6#





#95

Naphthalene

Concen: 5.281 ug/l

RT: 15.13 min Scan# 4153

Delta R.T. -0.00 min

Lab File: VN056465.D

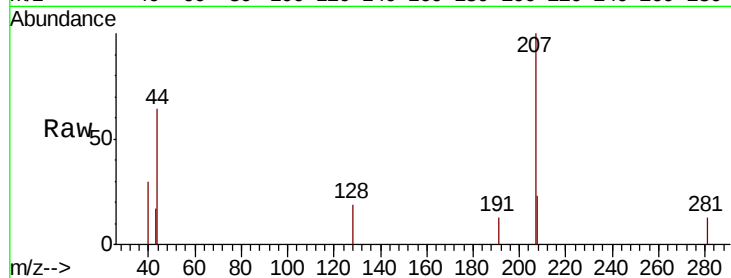
Acq: 24 Jun 2019 18:54

Instrument :

MSVOA_N

ClientSampleId :

SOILS-3



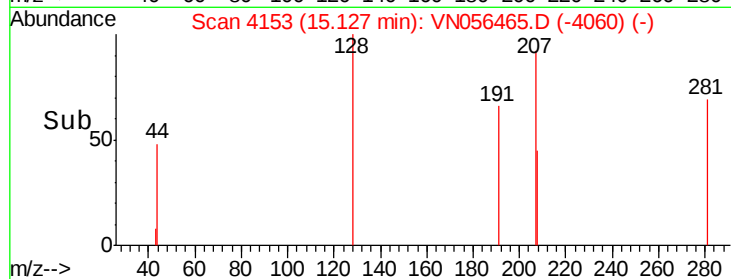
Tot Ion:128 Resp: 352

Ion Ratio Lower Upper

128 100

127 0.0 10.2 15.2#

129 0.0 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

