

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN072018\
 Data File : VN049980.D
 Acq On : 20 Jul 2018 22:51
 Operator : MD\SY
 Sample : J4057-08
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 LS-SOIL-2

Quant Time: Jul 20 23:52:00 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N071818W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jul 19 01:58:39 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	544564	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	946069	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	793274	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	291787	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	404618	54.06	ug/l	0.00
Spiked Amount			Recovery	=	108.12%	
35) Dibromofluoromethane	7.59	113	357206	44.98	ug/l	0.00
Spiked Amount			Recovery	=	89.96%	
50) Toluene-d8	10.09	98	1259428	43.52	ug/l	0.00
Spiked Amount			Recovery	=	87.04%	
62) 4-Bromofluorobenzene	12.40	95	347668	34.88	ug/l	0.00
Spiked Amount			Recovery	=	69.76%	

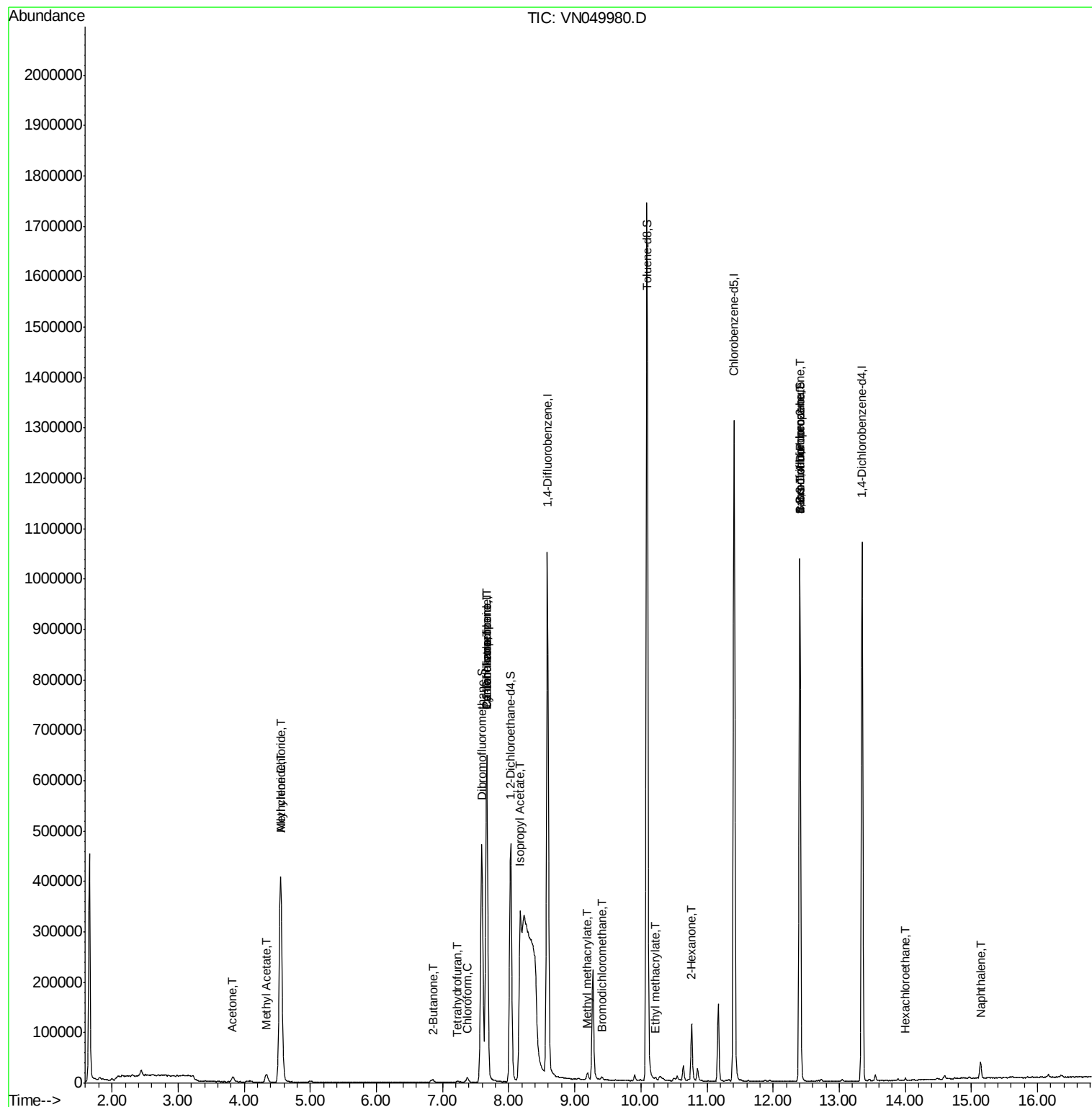
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.56	94	244	Below Cal		89
14) Allyl chloride	4.55	41	10887	1.17	ug/l #	24
16) Acetone	3.82	43	16440	8.48	ug/l #	85
18) Methyl Acetate	4.33	43	29645	4.11	ug/l	98
20) Methylene Chloride	4.55	84	313977	42.60	ug/l	98
25) 2-Butanone	6.86	43	2779	1.00	ug/l #	89
29) Tetrahydrofuran	7.21	42	440	0.25	ug/l #	64
30) Chloroform	7.37	83	9007	0.72	ug/l	85
31) Cyclohexane	7.67	56	10844	1.09	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	39984	3.80	ug/l #	48
38) Carbon Tetrachloride	7.67	117	50238	4.46	ug/l #	16
43) Isopropyl Acetate	8.17	43	403312	31.96	ug/l #	83
47) Bromodichloromethane	9.41	83	3181	0.29	ug/l #	84
48) Methyl methacrylate	9.19	41	8876	1.40	ug/l #	21
56) Ethyl methacrylate	10.23	69	1975	2.34	ug/l #	56
59) 2-Hexanone	10.77	43	14932	3.15	ug/l #	58
71) Bromoform	12.41	173	2414	0.44	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	170902	31.22	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	170902	97.63	ug/l #	13
90) Hexachloroethane	14.00	117	1774	0.45	ug/l #	4
95) Naphthalene	15.14	128	27660	6.31	ug/l	98

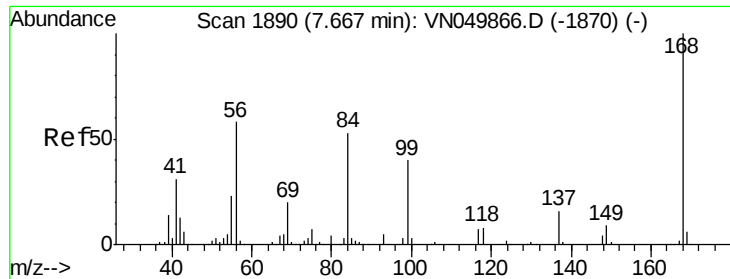
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1891

Delta R.T. 0.00 min

Lab File: VN049980.D

Acq: 20 Jul 2018 22:51

Instrument :

MSVOA_N

ClientSampleId :

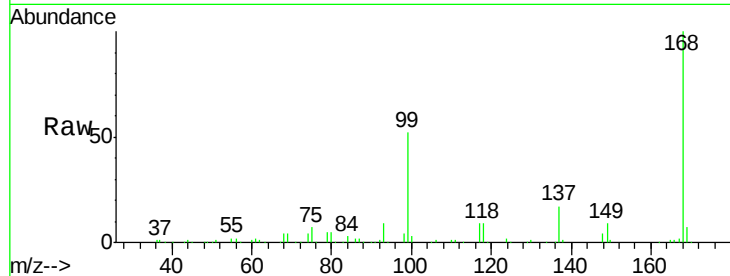
LS-SOIL-2

Tot Ion:168 Resp: 544564

Ion Ratio Lower Upper

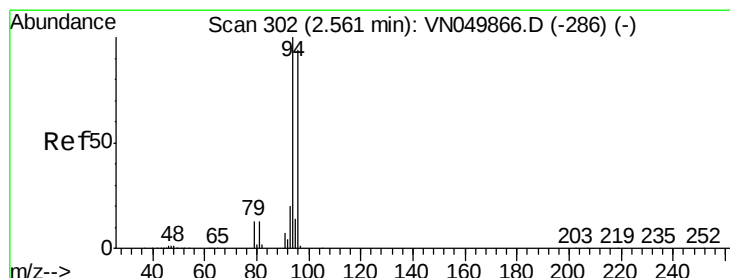
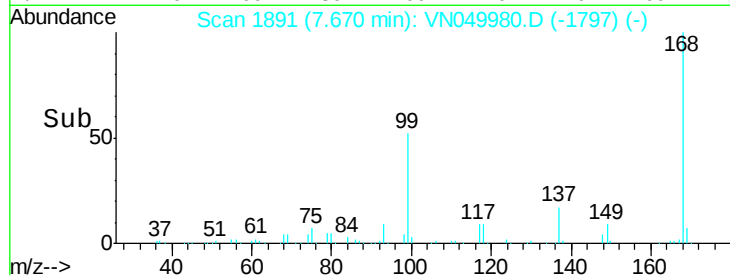
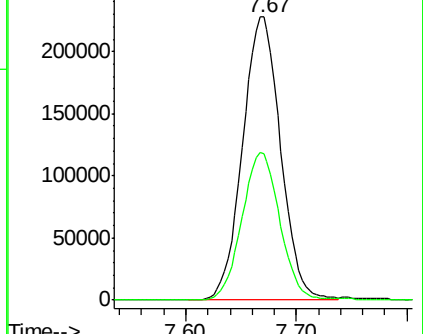
168 100

99 51.7 40.6 61.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#5

Bromomethane

Concen: Below Cal

RT: 2.56 min Scan# 302

Delta R.T. 0.00 min

Lab File: VN049980.D

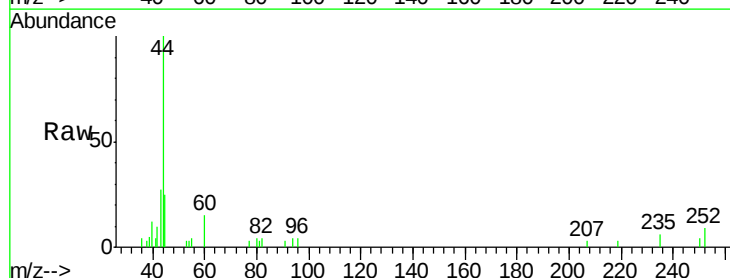
Acq: 20 Jul 2018 22:51

Tgt Ion: 94 Resp: 244

Ion Ratio Lower Upper

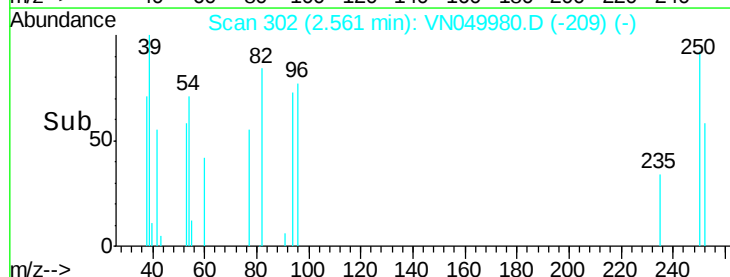
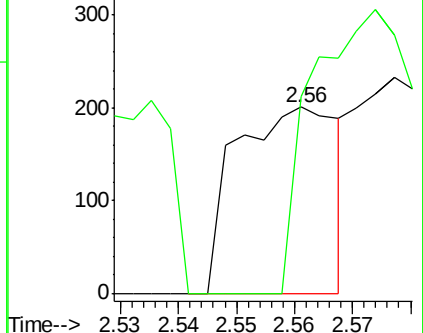
94 100

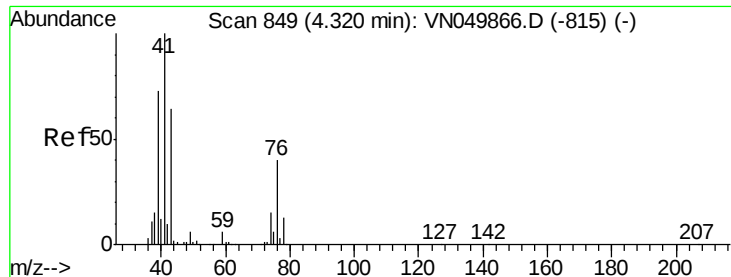
96 105.5 75.7 113.5



Abundance Ion 93.90 (93.60 to 94.60): VNO

Ion 95.90 (95.60 to 96.60): VNO

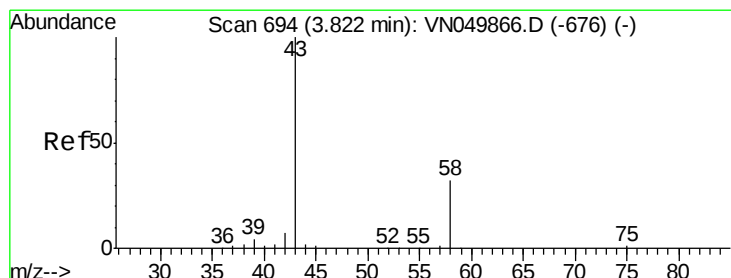
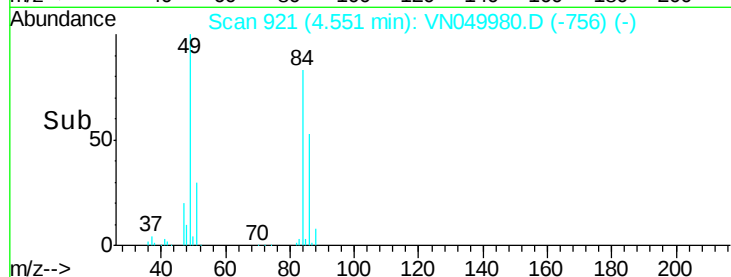
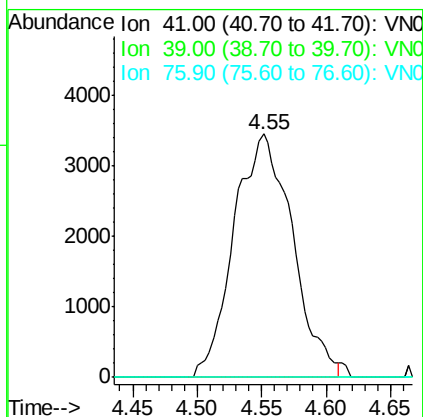
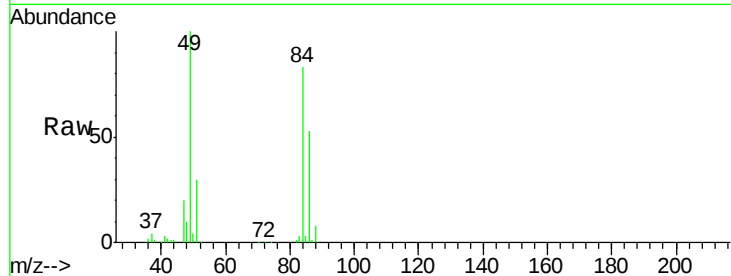




#14
Allvl chloride
Concen: 1.17 ug/l
RT: 4.55 min Scan# 921
Delta R.T. 0.23 min
Lab File: VN049980.D
Acq: 20 Jul 2018 22:51

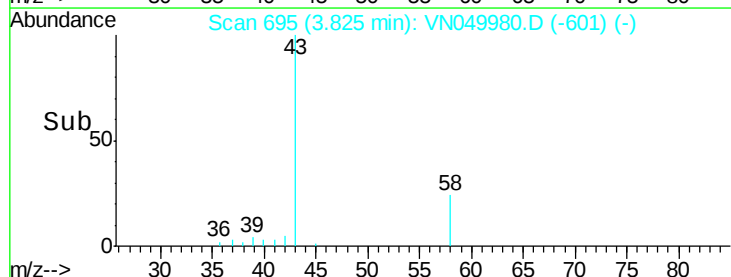
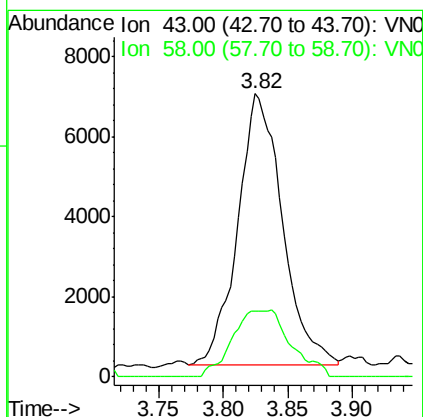
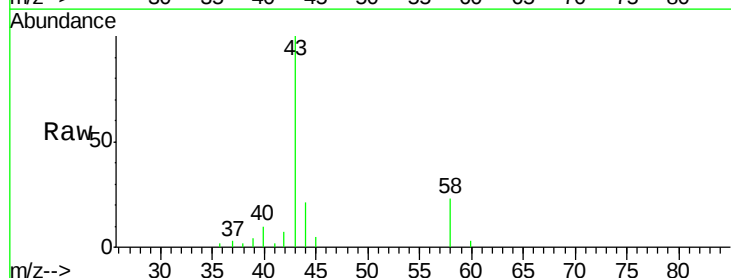
Instrument :
MSVOA_N
ClientSampled :
LS-SOIL-2

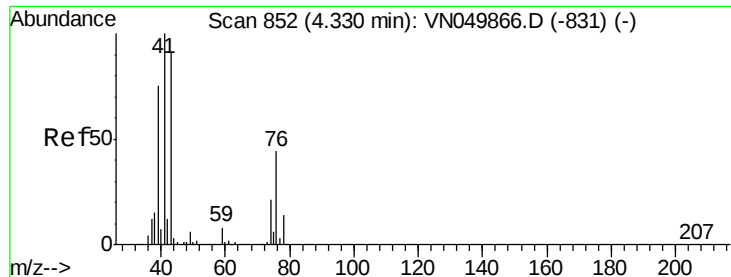
Tot Ion: 41 Resp: 10887
Ion Ratio Lower Upper
41 100
39 0.0 53.2 79.8#
76 0.0 29.0 43.6#



#16
Acetone
Concen: 8.48 ug/l
RT: 3.82 min Scan# 695
Delta R.T. 0.00 min
Lab File: VN049980.D
Acq: 20 Jul 2018 22:51

Tgt Ion: 43 Resp: 16440
Ion Ratio Lower Upper
43 100
58 24.2 25.9 38.9#

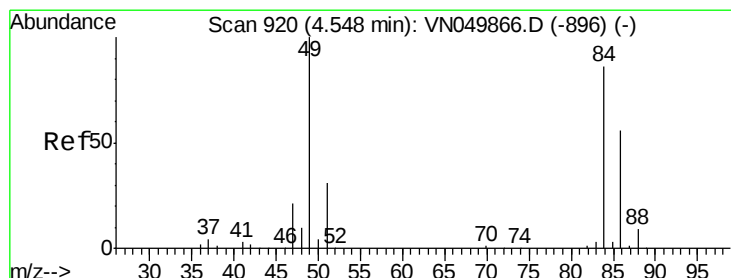
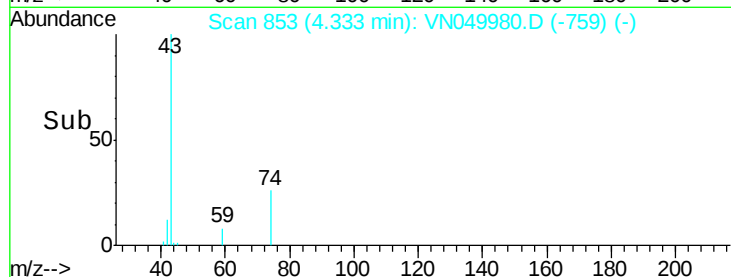
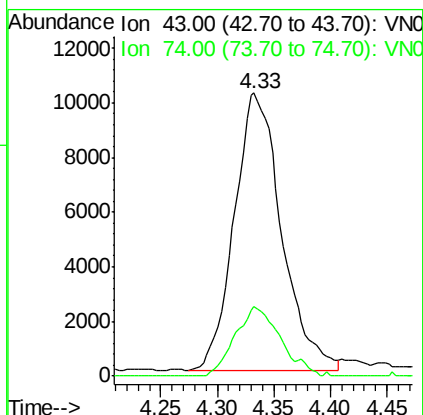
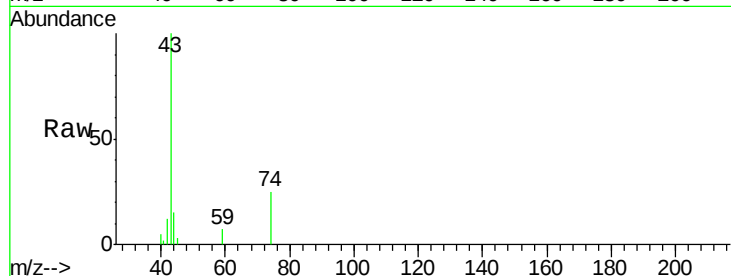




#18
Methvl Acetate
Concen: 4.11 ug/l
RT: 4.33 min Scan# 853
Delta R.T. 0.00 min
Lab File: VN049980.D
Acq: 20 Jul 2018 22:51

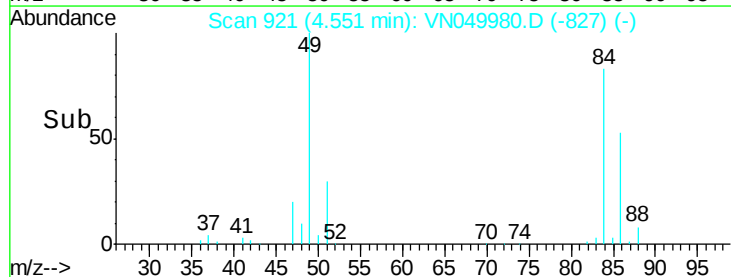
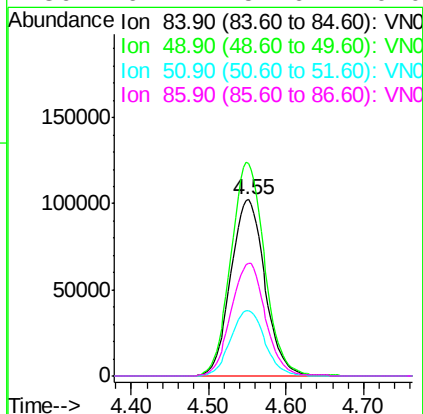
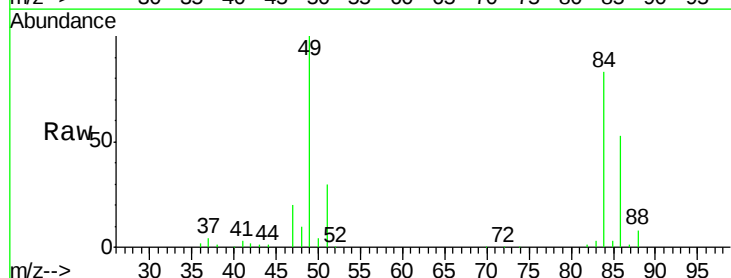
Instrument :
MSVOA_N
ClientSampleId :
LS-SOIL-2

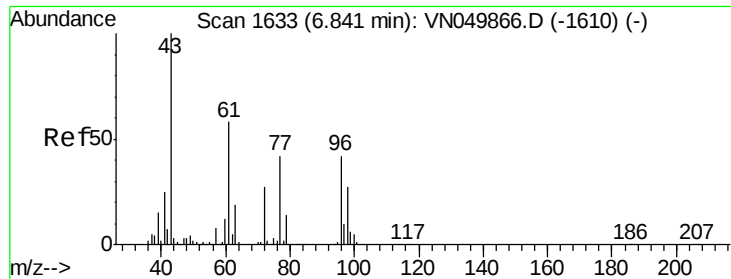
Tot Ion: 43 Resp: 29645
Ion Ratio Lower Upper
43 100
74 23.9 19.8 29.8



#20
Methylene Chloride
Concen: 42.60 ug/l
RT: 4.55 min Scan# 921
Delta R.T. 0.00 min
Lab File: VN049980.D
Acq: 20 Jul 2018 22:51

Tgt Ion: 84 Resp: 313977
Ion Ratio Lower Upper
84 100
49 120.7 95.4 143.2
51 36.8 28.4 42.6
86 64.1 52.6 79.0





#25

2-Butanone

Concen: 1.00 ug/l

RT: 6.86 min Scan# 1638

Delta R.T. 0.02 min

Lab File: VN049980.D

Acq: 20 Jul 2018 22:51

Instrument :

MSVOA_N

ClientSampled :

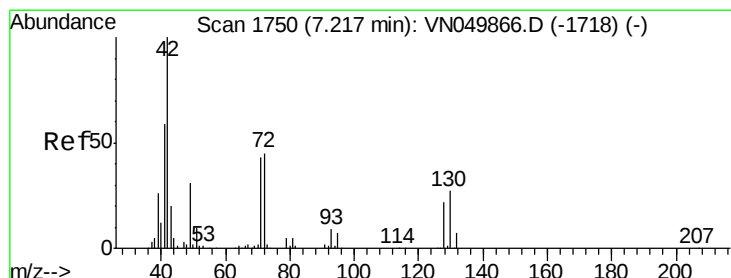
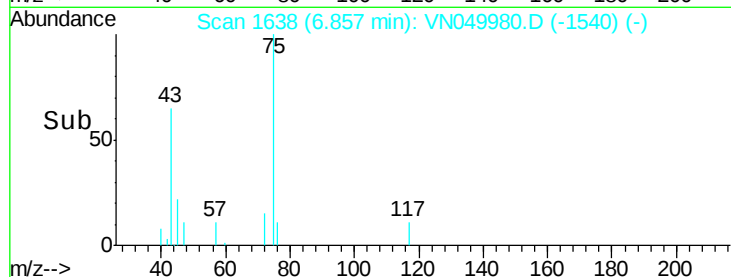
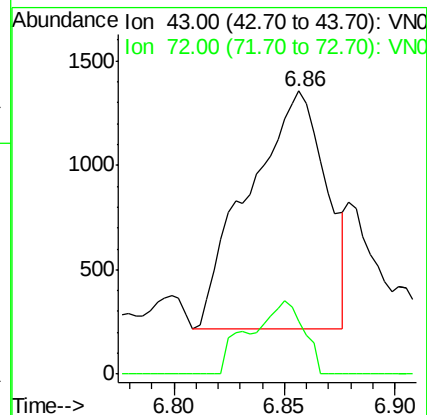
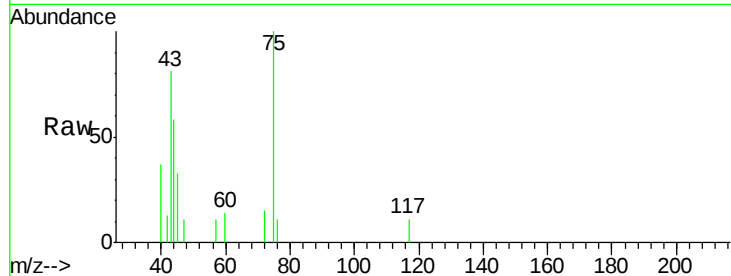
LS-SOIL-2

Tot Ion: 43 Resp: 2779

Ion Ratio Lower Upper

43 100

72 22.0 22.1 33.1#



#29

Tetrahydrofuran

Concen: 0.25 ug/l

RT: 7.21 min Scan# 1747

Delta R.T. -0.01 min

Lab File: VN049980.D

Acq: 20 Jul 2018 22:51

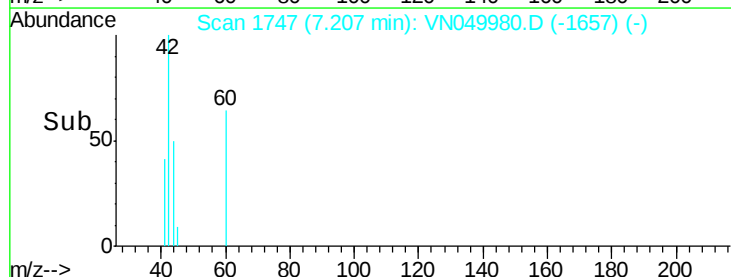
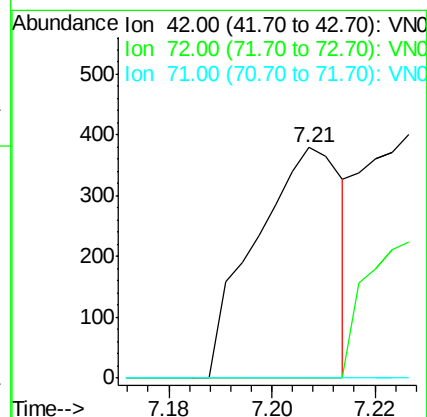
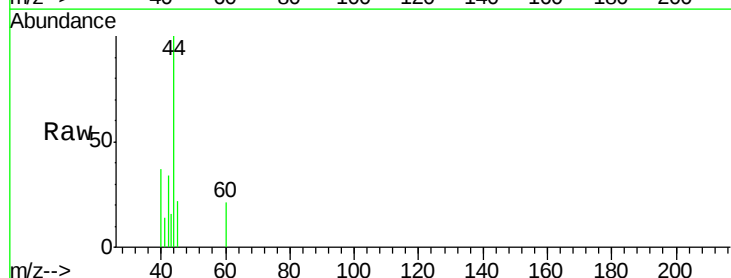
Tgt Ion: 42 Resp: 440

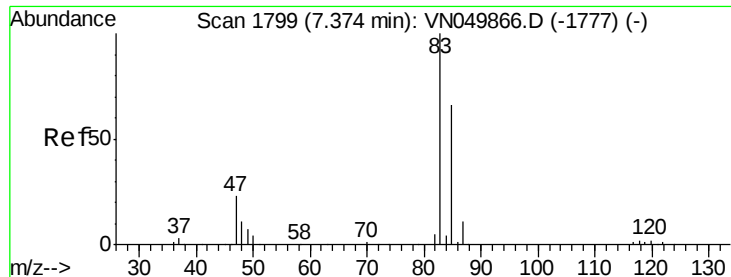
Ion Ratio Lower Upper

42 100

72 40.7 35.6 53.4

71 0.0 34.0 51.0#

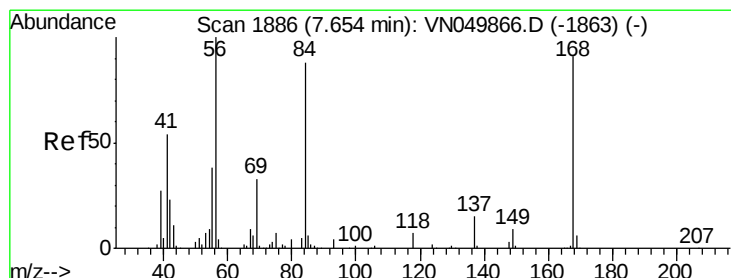
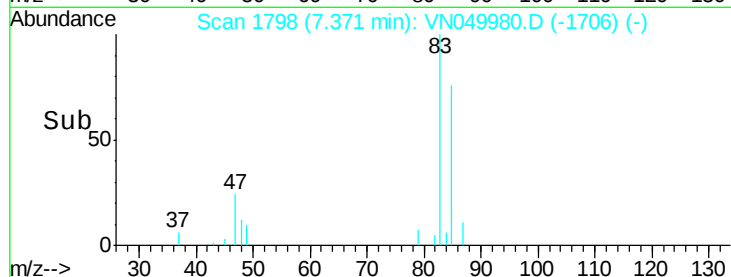
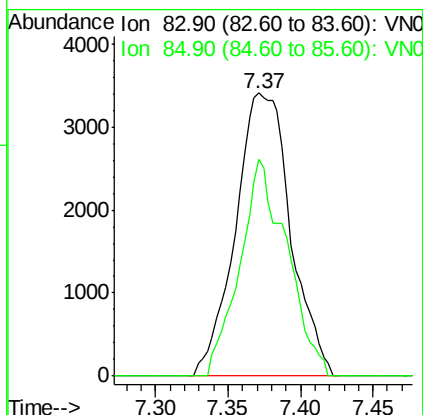
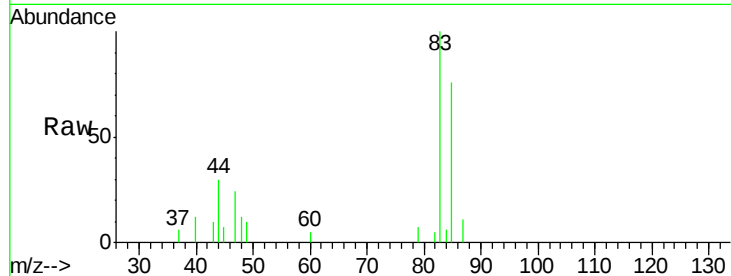




#30
Chloroform
Concen: 0.72 ug/l
RT: 7.37 min Scan# 1798
Delta R.T. -0.00 min
Lab File: VN049980.D
Acq: 20 Jul 2018 22:51

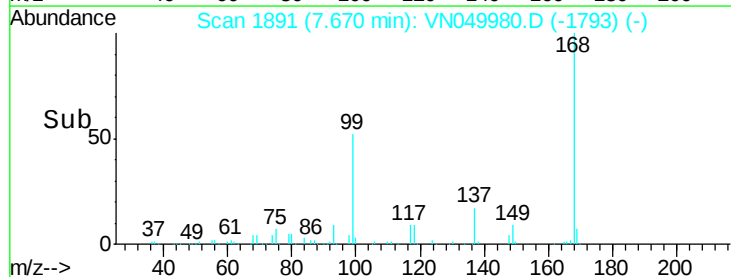
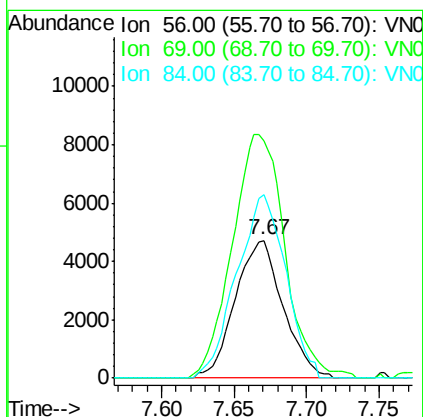
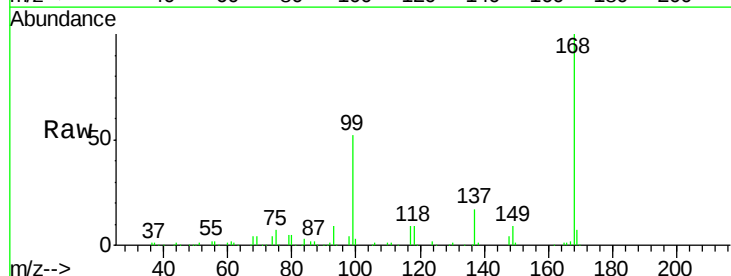
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LS-SOIL-2

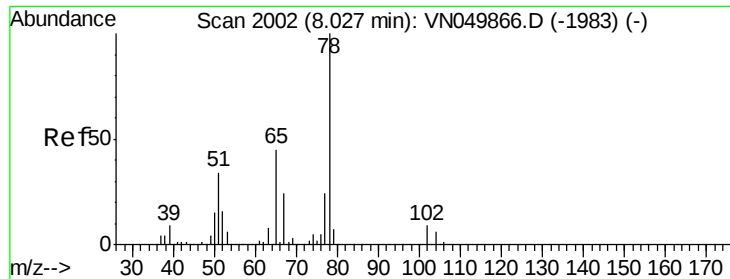
Tot Ion: 83 Resp: 9007
Ion Ratio Lower Upper
83 100
85 76.4 51.4 77.2



#31
Cyclohexane
Concen: 1.09 ug/l
RT: 7.67 min Scan# 1891
Delta R.T. 0.02 min
Lab File: VN049980.D
Acq: 20 Jul 2018 22:51

Tgt Ion: 56 Resp: 10844
Ion Ratio Lower Upper
56 100
69 172.5 26.6 40.0#
84 133.5 69.0 103.6#

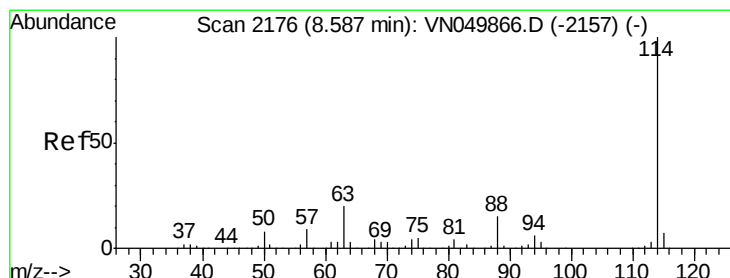
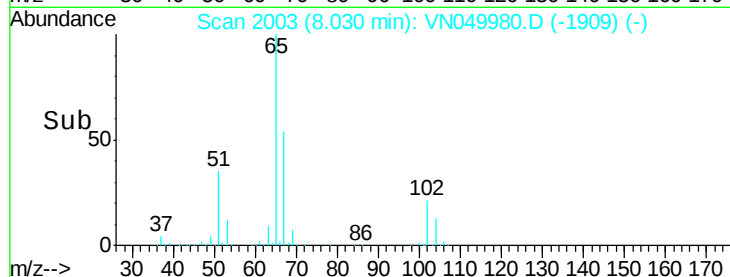
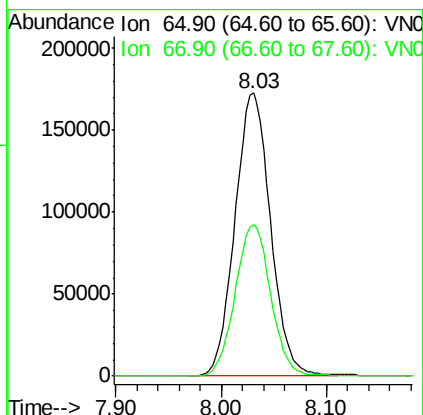
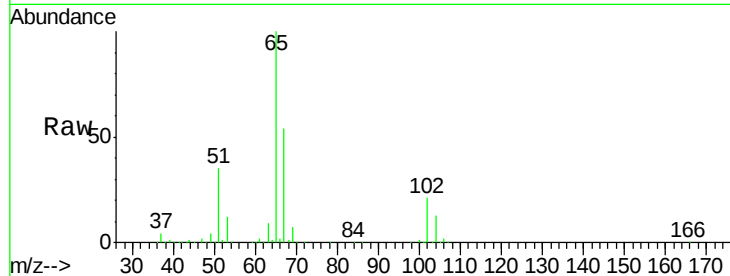




#33
 1,2-Dichloroethane-d4
 Concen: 54.06 ug/l
 RT: 8.03 min Scan# 2003
 Delta R.T. 0.00 min
 Lab File: VN049980.D
 Acq: 20 Jul 2018 22:51

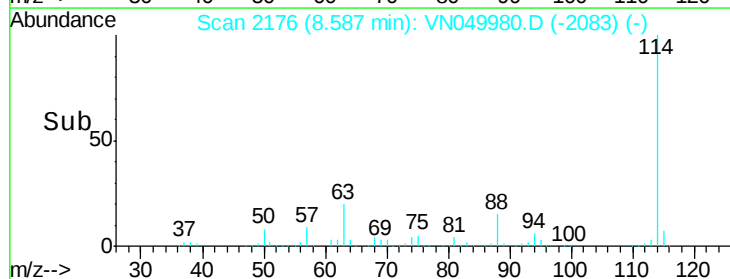
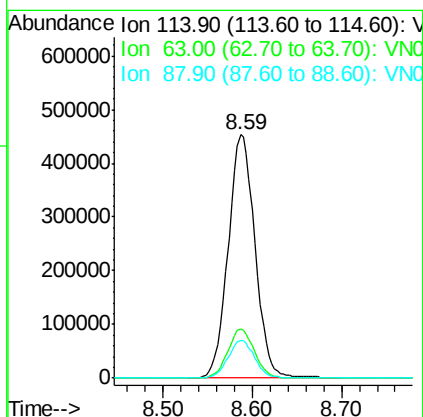
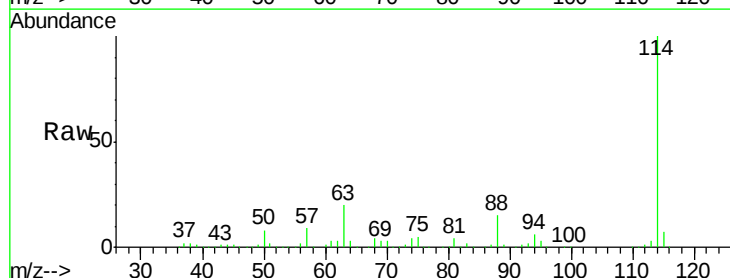
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 LS-SOIL-2

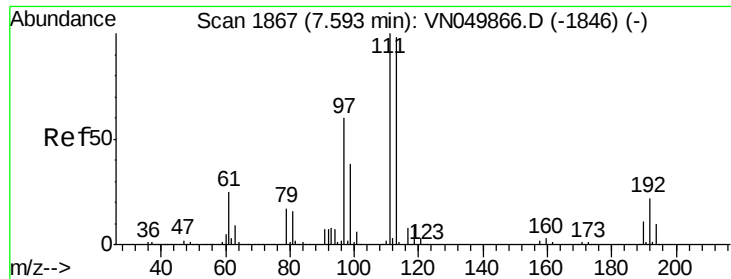
Tot Ion: 65 Resp: 404618
 Ion Ratio Lower Upper
 65 100
 67 53.5 0.0 107.2



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2176
 Delta R.T. -0.00 min
 Lab File: VN049980.D
 Acq: 20 Jul 2018 22:51

Tgt Ion: 114 Resp: 946069
 Ion Ratio Lower Upper
 114 100
 63 20.3 0.0 39.8
 88 15.4 0.0 30.6

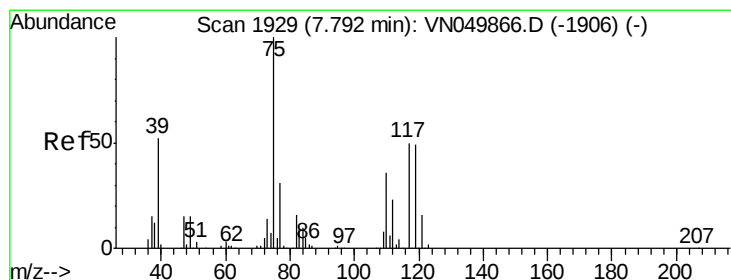
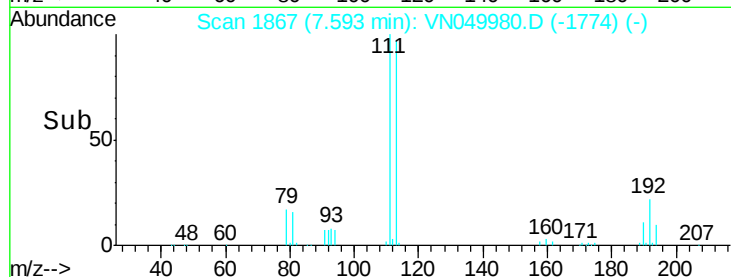
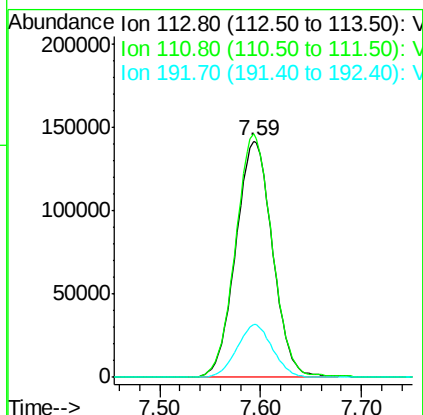
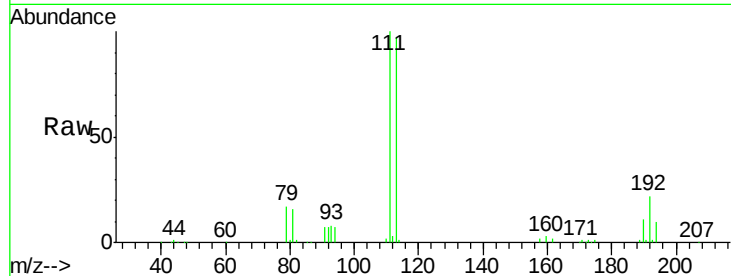




#35
 Dibromofluoromethane
 Concen: 44.98 ug/l
 RT: 7.59 min Scan# 1867
 Delta R.T. -0.00 min
 Lab File: VN049980.D
 Acq: 20 Jul 2018 22:51

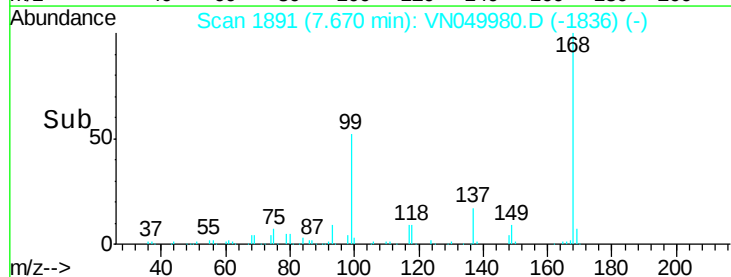
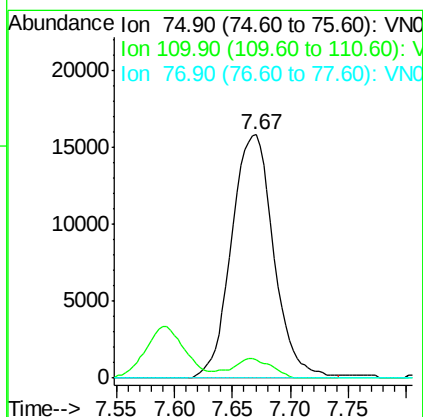
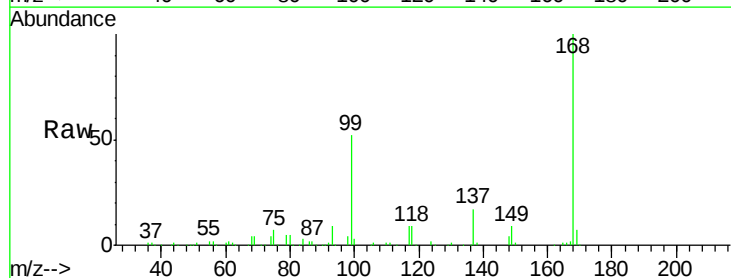
Instrument :
 MSVOA_N
 ClientSampleId :
 LS-SOIL-2

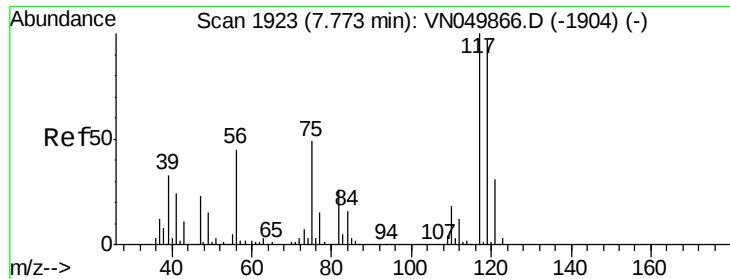
Tot Ion	Ratio	Lower	Upper
113	100		
111	102.7	81.8	122.8
192	21.7	17.8	26.6



#36
 1,1-Dichloropropene
 Concen: 3.80 ug/l
 RT: 7.67 min Scan# 1891
 Delta R.T. -0.12 min
 Lab File: VN049980.D
 Acq: 20 Jul 2018 22:51

Tgt Ion	Ratio	Lower	Upper
75	100		
110	7.5	18.1	54.4#
77	0.0	24.9	37.3#

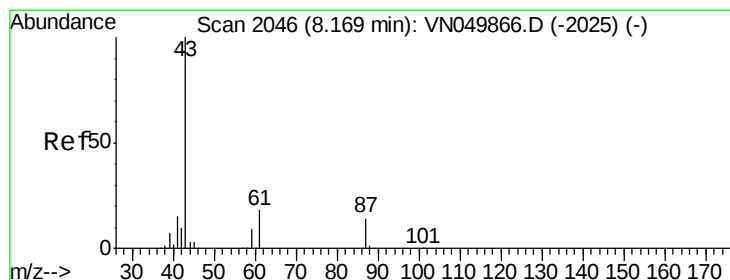
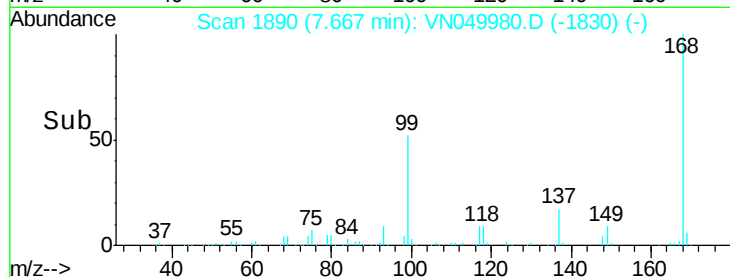
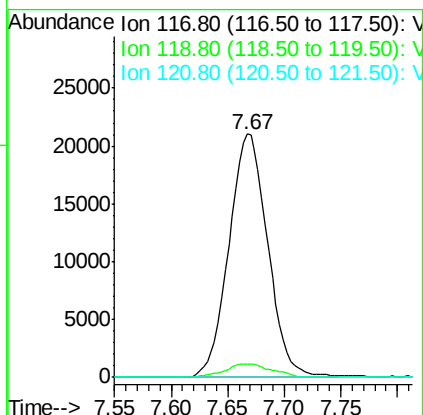
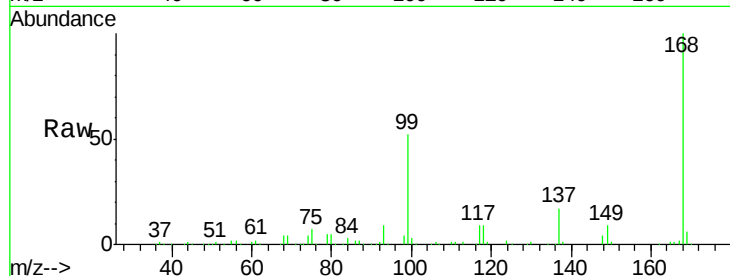




#38
Carbon Tetrachloride
Concen: 4.46 ug/l
RT: 7.67 min Scan# 1890
Delta R.T. -0.11 min
Lab File: VN049980.D
Acq: 20 Jul 2018 22:51

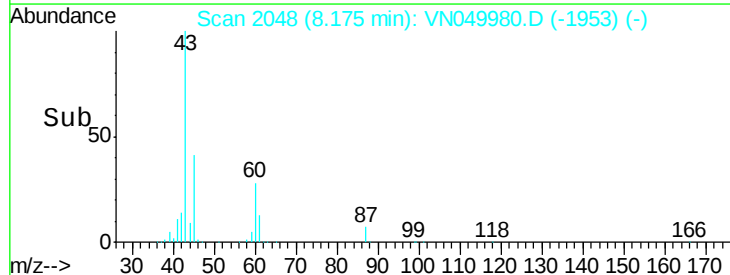
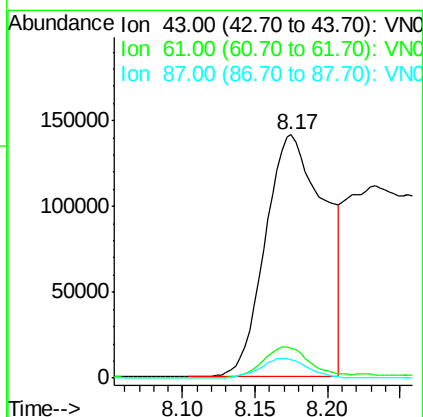
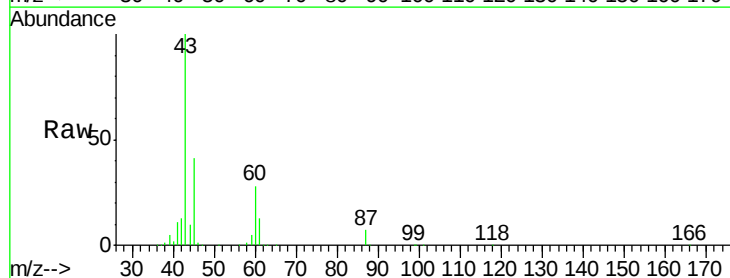
Instrument :
MSVOA_N
ClientSampled :
LS-SOIL-2

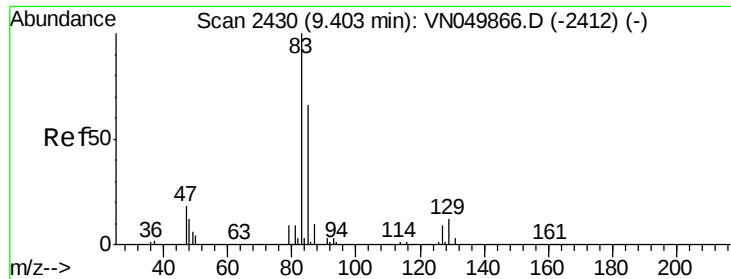
Tot Ion:117 Resp: 50238
Ion Ratio Lower Upper
117 100
119 5.5 77.2 115.8#
121 0.0 25.0 37.6#



#43
Isopropyl Acetate
Concen: 31.96 ug/l
RT: 8.17 min Scan# 2048
Delta R.T. 0.01 min
Lab File: VN049980.D
Acq: 20 Jul 2018 22:51

Tgt Ion: 43 Resp: 403312
Ion Ratio Lower Upper
43 100
61 10.5 14.9 22.3#
87 6.4 10.0 15.0#

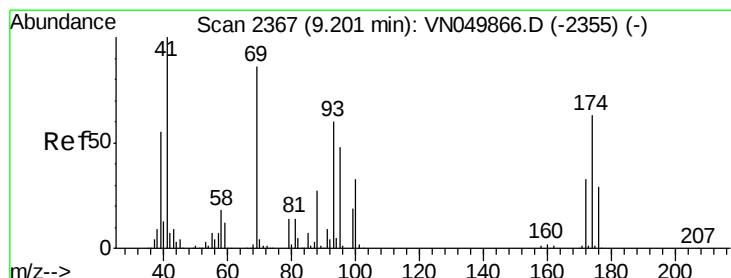
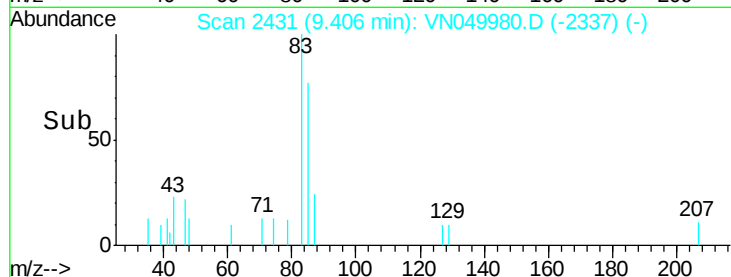
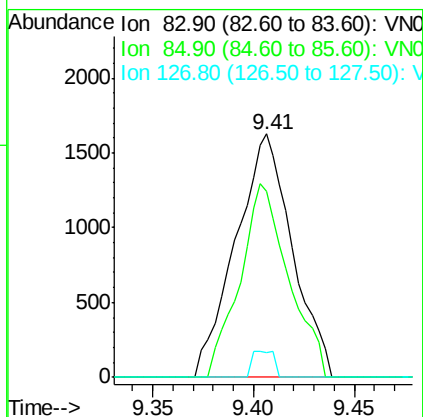
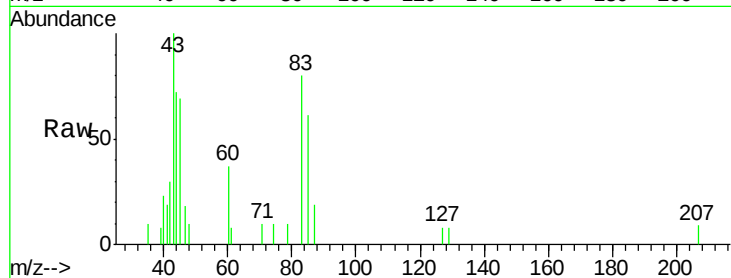




#47
Bromodichloromethane
Concen: 0.29 ug/l
RT: 9.41 min Scan# 2431
Delta R.T. 0.00 min
Lab File: VN049980.D
Acq: 20 Jul 2018 22:51

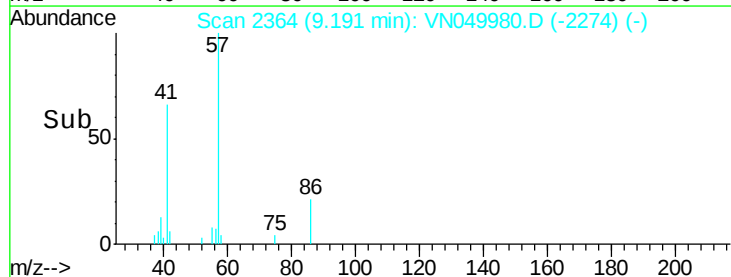
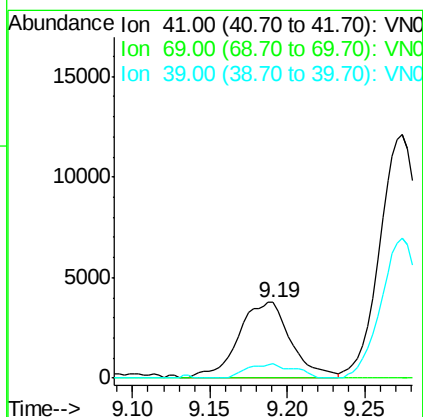
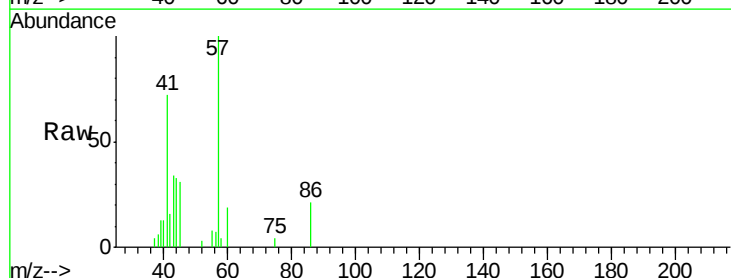
Instrument :
MSVOA_N
ClientSampleId :
LS-SOIL-2

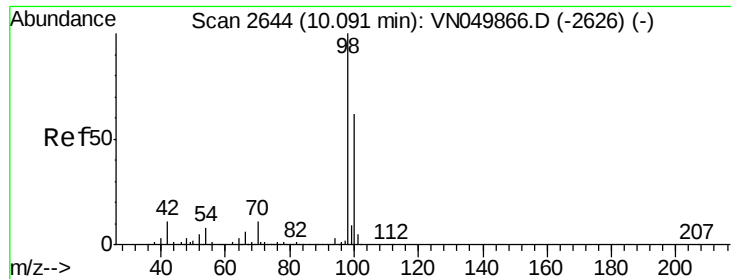
Tot Ion: 83 Resp: 3181
Ion Ratio Lower Upper
83 100
85 76.6 50.5 75.7#
127 10.2 6.8 10.2#



#48
Methyl methacrylate
Concen: 1.40 ug/l
RT: 9.19 min Scan# 2364
Delta R.T. -0.01 min
Lab File: VN049980.D
Acq: 20 Jul 2018 22:51

Tgt Ion: 41 Resp: 8876
Ion Ratio Lower Upper
41 100
69 0.0 71.5 107.3#
39 16.8 44.7 67.1#

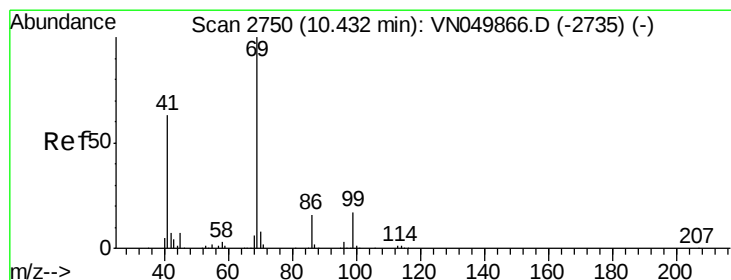
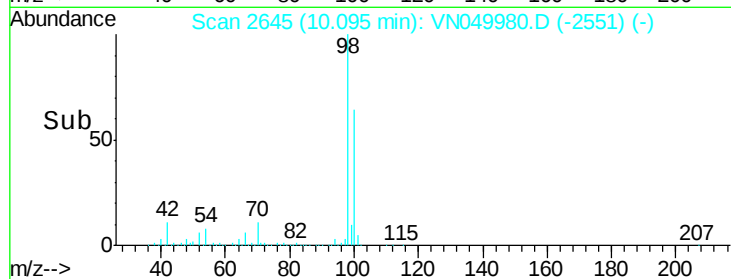
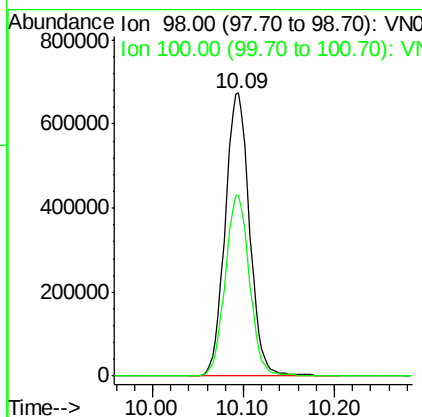
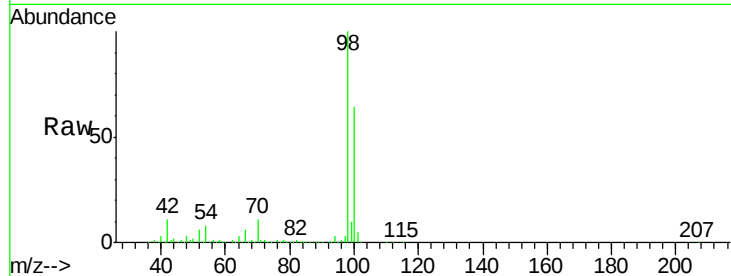




#50
Toluene-d8
Concen: 43.52 ug/l
RT: 10.09 min Scan# 2645
Delta R.T. 0.00 min
Lab File: VN049980.D
Acq: 20 Jul 2018 22:51

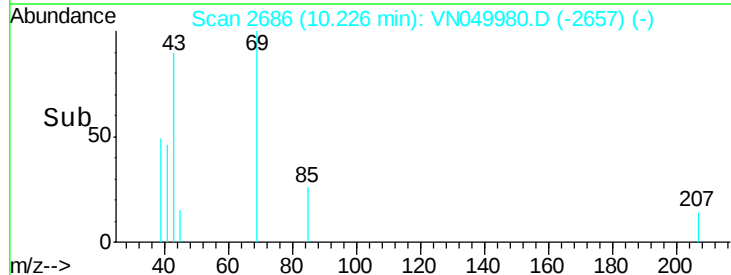
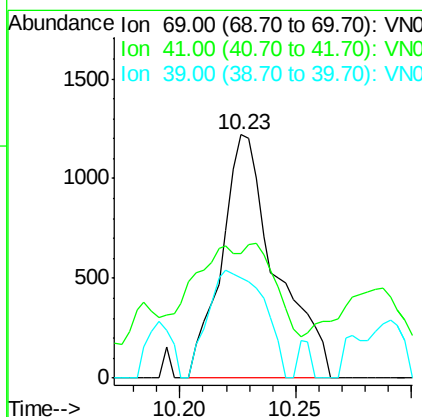
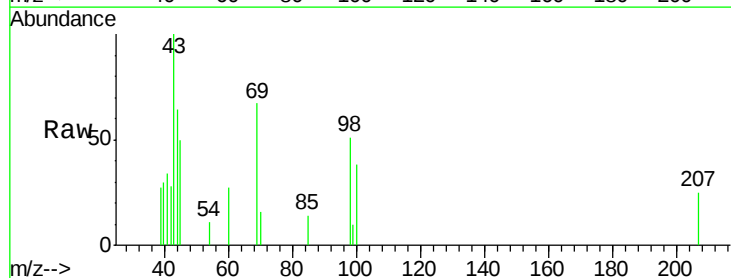
Instrument :
MSVOA_N
ClientSampleId :
LS-SOIL-2

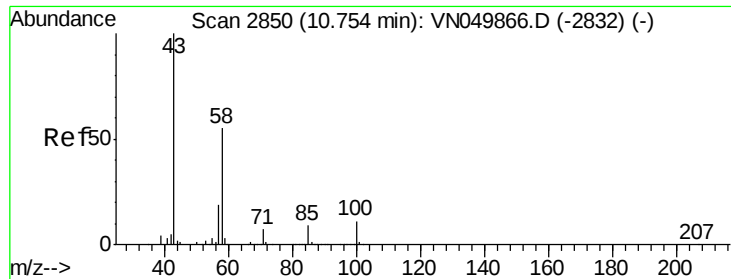
Tot Ion: 98 Resp: 1259428
Ion Ratio Lower Upper
98 100
100 63.6 51.7 77.5



#56
Ethyl methacrylate
Concen: 2.34 ug/l
RT: 10.23 min Scan# 2686
Delta R.T. -0.21 min
Lab File: VN049980.D
Acq: 20 Jul 2018 22:51

Tgt Ion: 69 Resp: 1975
Ion Ratio Lower Upper
69 100
41 21.6 51.6 77.4#
39 45.7 25.8 38.8#





#59

2-Hexanone

Concen: 3.15 ug/l

RT: 10.77 min Scan# 2855

Delta R.T. 0.02 min

Lab File: VN049980.D

Acq: 20 Jul 2018 22:51

Instrument :

MSVOA_N

ClientSampleId :

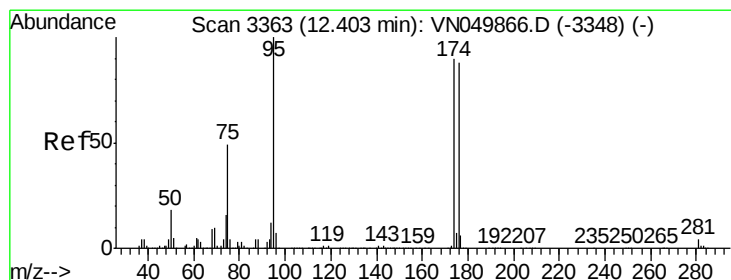
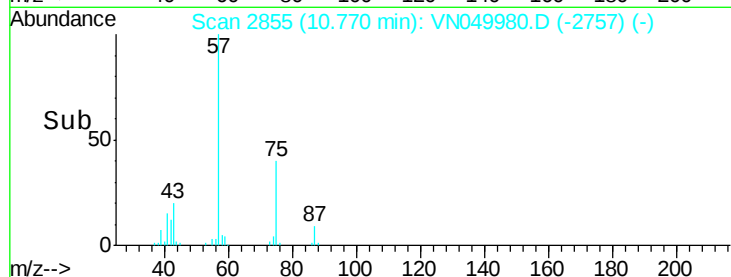
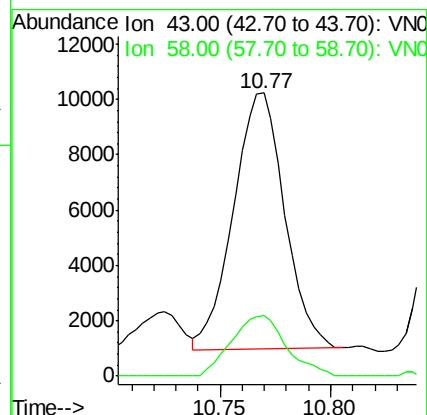
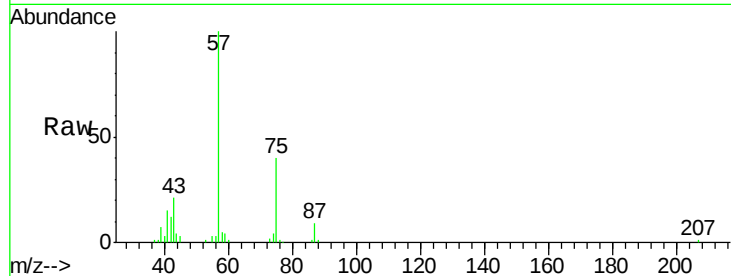
LS-SOIL-2

Tot Ion: 43 Resp: 14932

Ion Ratio Lower Upper

43 100

58 25.4 27.8 83.4#



#62

4-Bromofluorobenzene

Concen: 34.88 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.00 min

Lab File: VN049980.D

Acq: 20 Jul 2018 22:51

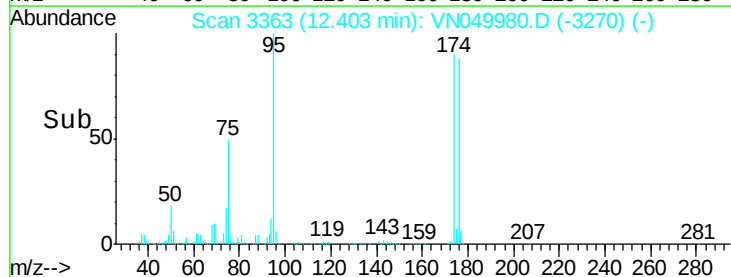
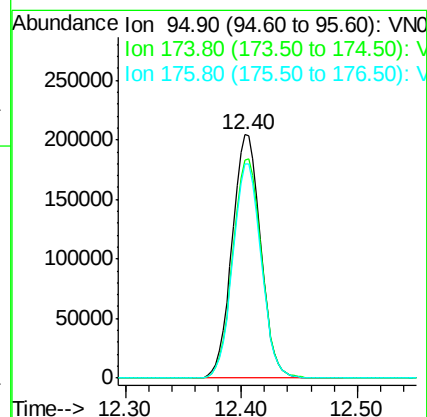
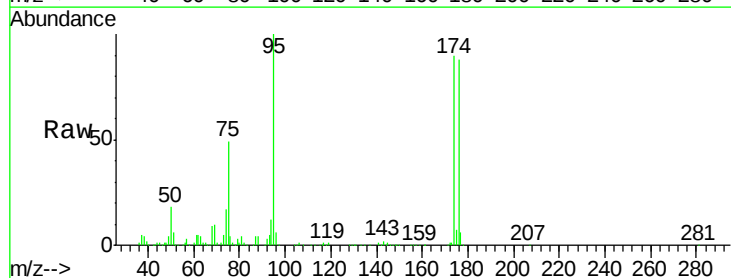
Tgt Ion: 95 Resp: 347668

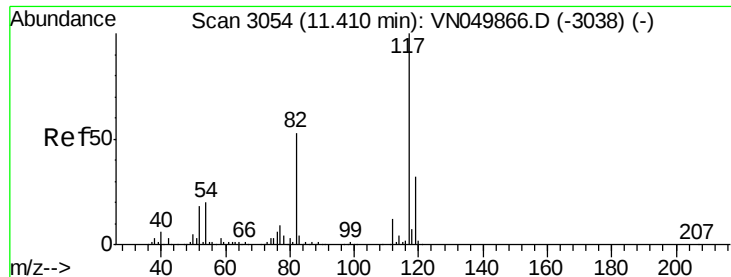
Ion Ratio Lower Upper

95 100

174 90.8 0.0 179.6

176 87.5 0.0 174.0

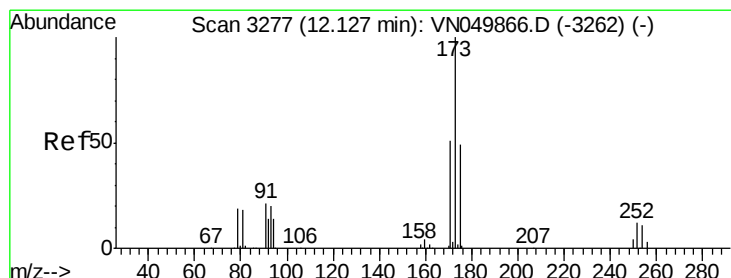
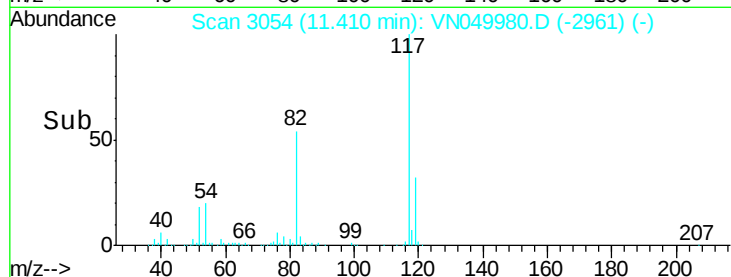
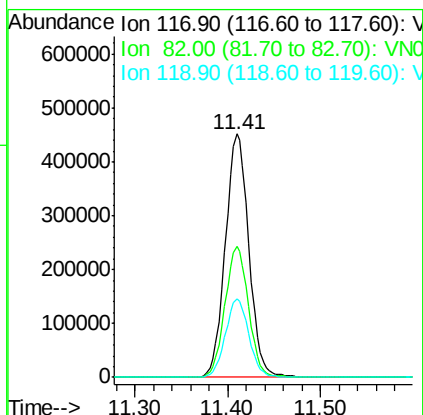
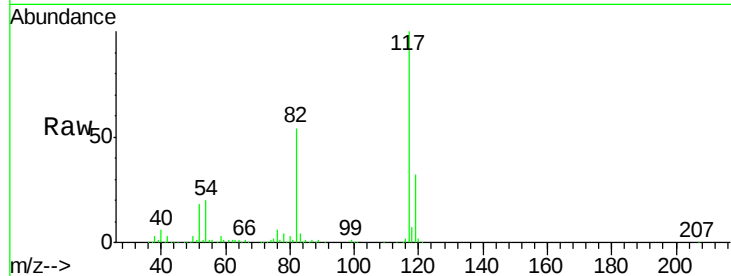




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. -0.00 min
Lab File: VN049980.D
Acq: 20 Jul 2018 22:51

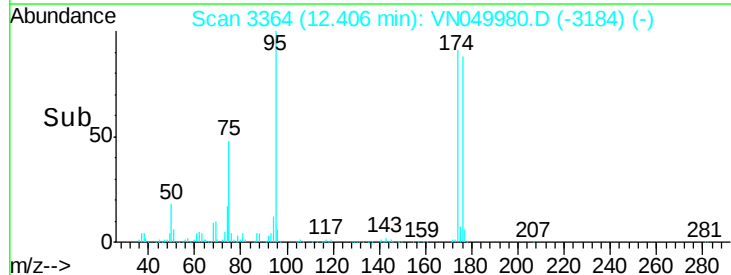
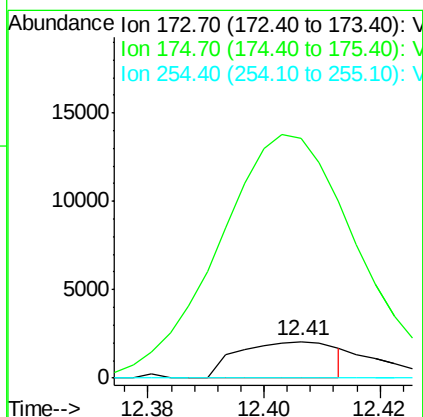
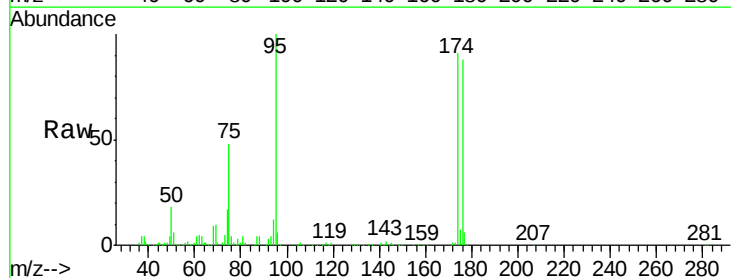
Instrument :
MSVOA_N
ClientSampleId :
LS-SOIL-2

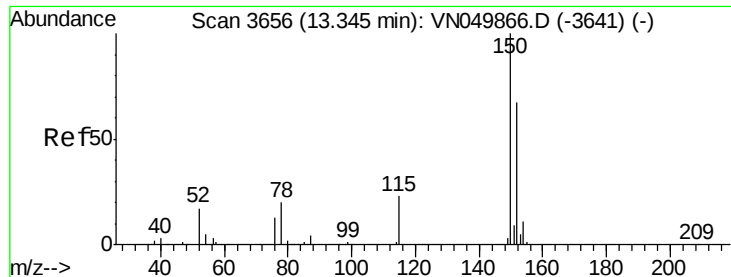
Tot Ion:117 Resp: 793274
Ion Ratio Lower Upper
117 100
82 53.7 41.9 62.9
119 32.2 25.4 38.2



#71
Bromoform
Concen: 0.44 ug/l
RT: 12.41 min Scan# 3364
Delta R.T. 0.28 min
Lab File: VN049980.D
Acq: 20 Jul 2018 22:51

Tgt Ion:173 Resp: 2414
Ion Ratio Lower Upper
173 100
175 778.7 24.6 73.8#
254 0.0 0.2 0.2#





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.35 min Scan# 3657

Delta R.T. 0.00 min

Lab File: VN049980.D

Acq: 20 Jul 2018 22:51

Instrument :

MSVOA_N

ClientSampleId :

LS-SOIL-2

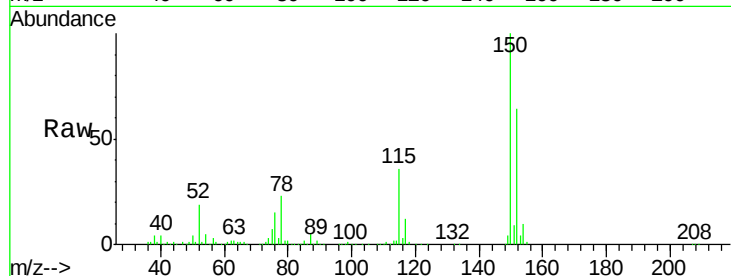
Tot Ion:152 Resp: 291787

Ion Ratio Lower Upper

152 100

115 57.1 28.1 84.2

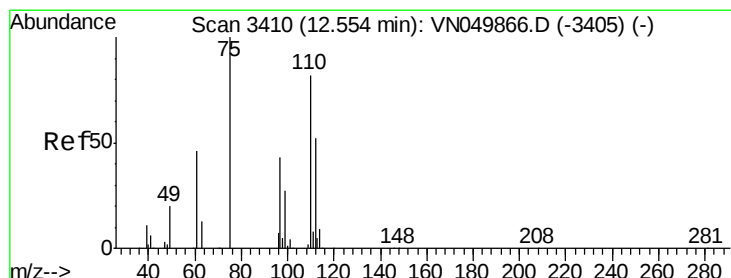
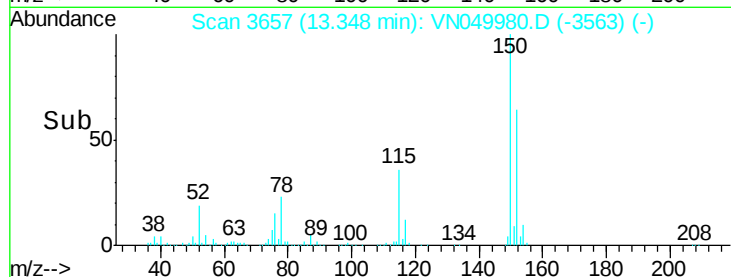
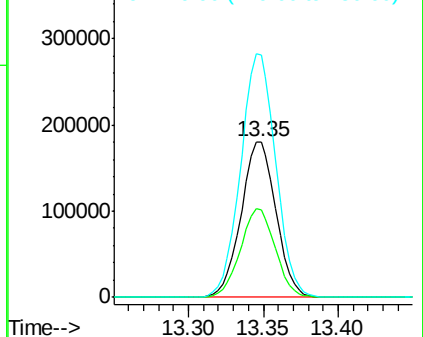
150 158.1 0.0 347.6



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: 31.22 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.15 min

Lab File: VN049980.D

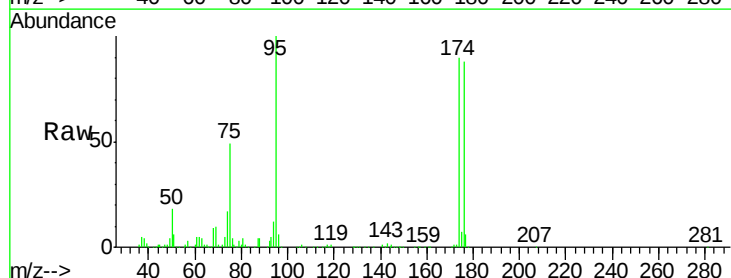
Acq: 20 Jul 2018 22:51

Tgt Ion: 75 Resp: 170902

Ion Ratio Lower Upper

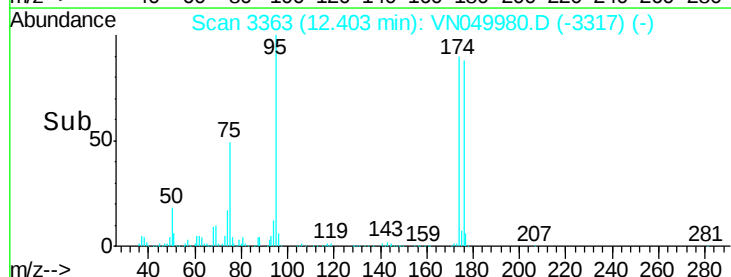
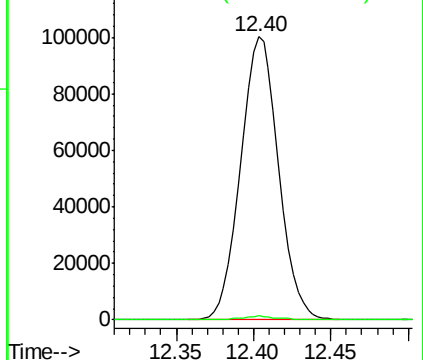
75 100

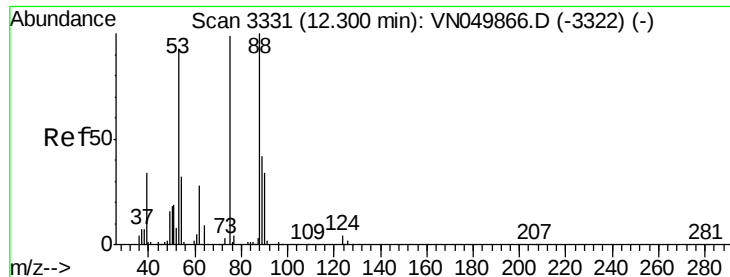
77 1.3 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 97.63 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.10 min

Lab File: VN049980.D

Acq: 20 Jul 2018 22:51

Instrument :

MSVOA_N

ClientSampled :

LS-SOIL-2

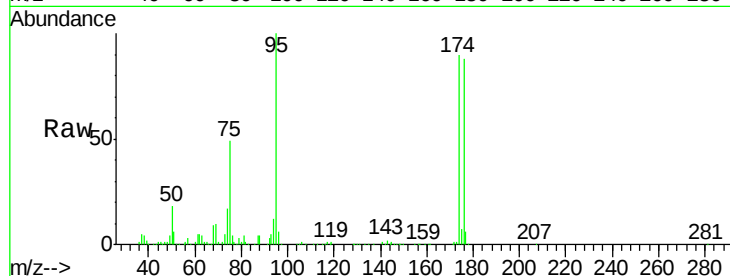
Tot Ion: 75 Resp: 170902

Ion Ratio Lower Upper

75 100

53 0.2 73.9 110.9#

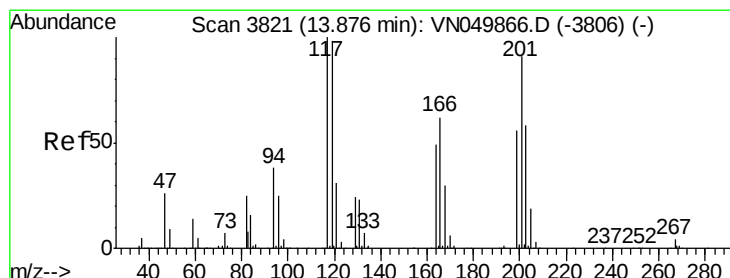
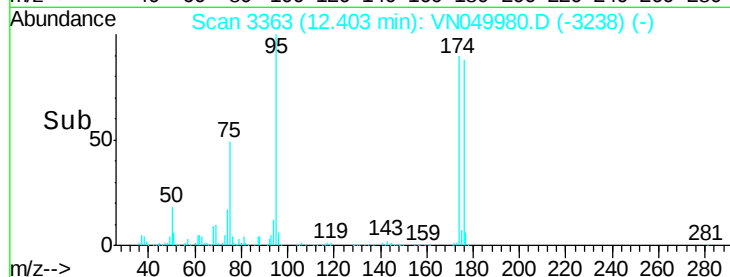
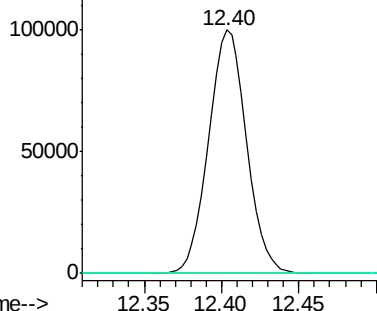
89 0.0 35.9 53.9#



Abundance Ion 74.90 (74.60 to 75.60): VN049980.D (-3363) (-)

Ion 53.00 (52.70 to 53.70): VN049980.D (-3363) (-)

Ion 88.90 (88.60 to 89.60): VN049980.D (-3363) (-)



#90

Hexachloroethane

Concen: 0.45 ug/l

RT: 14.00 min Scan# 3860

Delta R.T. 0.13 min

Lab File: VN049980.D

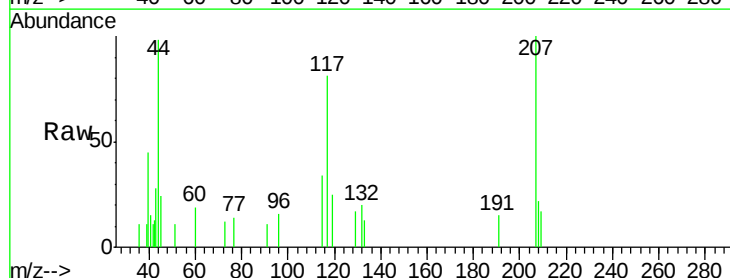
Acq: 20 Jul 2018 22:51

Tgt Ion: 117 Resp: 1774

Ion Ratio Lower Upper

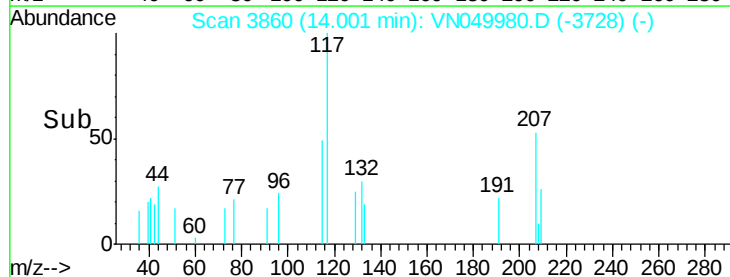
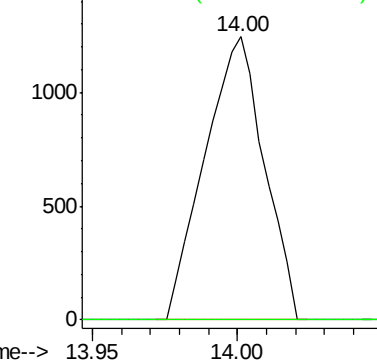
117 100

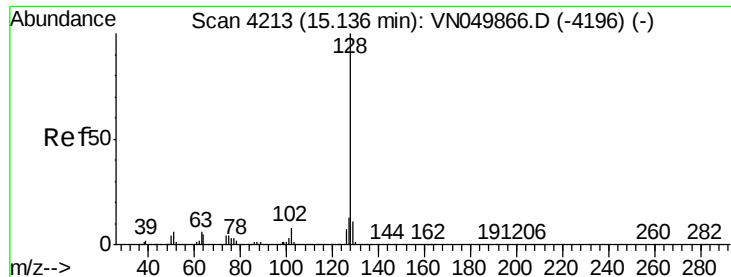
201 0.0 45.3 135.8#



Abundance Ion 116.80 (116.50 to 117.50): VN049980.D (-3821) (-)

Ion 200.70 (200.40 to 201.40): VN049980.D (-3821) (-)





#95

Naphthalene

Concen: 6.31 ug/l

RT: 15.14 min Scan# 4213

Delta R.T. 0.00 min

Lab File: VN049980.D

Acq: 20 Jul 2018 22:51

Instrument :

MSVOA_N

ClientSampleId :

LS-SOIL-2

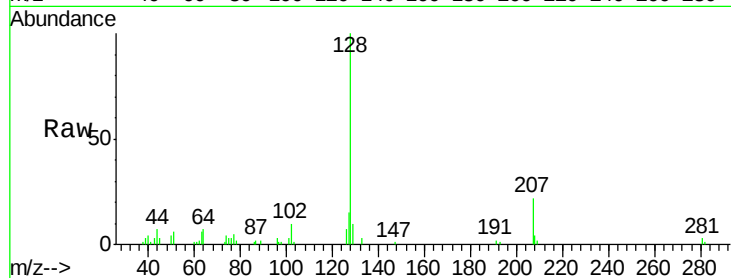
Tot Ion:128 Resp: 27660

Ion Ratio Lower Upper

128 100

127 13.7 10.4 15.6

129 11.3 8.6 13.0



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

