

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN092318\
 Data File : VN051419.D
 Acq On : 23 Sep 2018 17:39
 Operator : MD\SY
 Sample : J5021-16
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 LS-SOIL-D

Quant Time: Sep 24 06:47:41 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N092318W.M
 Quant Title : SW846 8260
 QLast Update : Mon Sep 24 06:41:32 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	671022	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1034542	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	865119	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	315021	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	455644	54.21	ug/l	0.00
Spiked Amount						
			Recovery	=	108.42%	
35) Dibromofluoromethane	7.59	113	388493	46.96	ug/l	0.00
Spiked Amount						
			Recovery	=	93.92%	
50) Toluene-d8	10.09	98	1440672	46.25	ug/l	0.00
Spiked Amount						
			Recovery	=	92.50%	
62) 4-Bromofluorobenzene	12.40	95	392081	38.91	ug/l	0.00
Spiked Amount						
			Recovery	=	77.82%	

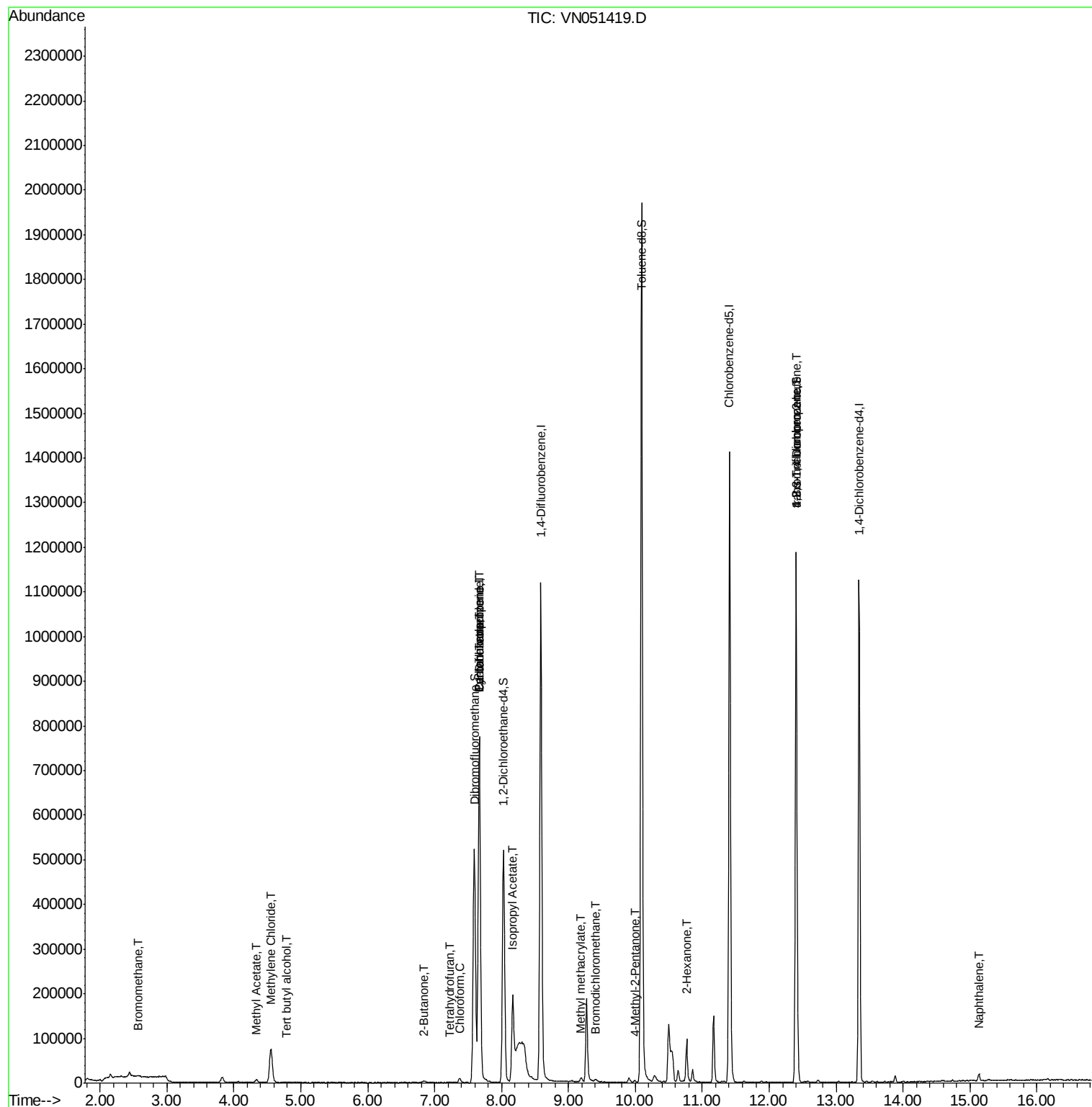
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.57	94	1772	0.328	ug/l	95
11) Tert butyl alcohol	4.79	59	303	0.639	ug/l #	78
16) Acetone	3.82	43	22531	Below Cal		96
18) Methyl Acetate	4.34	43	12622	1.972	ug/l	95
20) Methylene Chloride	4.55	84	56495	6.792	ug/l	97
25) 2-Butanone	6.85	43	2877	1.000	ug/l	93
29) Tetrahydrofuran	7.22	42	824	0.452	ug/l #	61
30) Chloroform	7.37	83	9490	0.663	ug/l	95
31) Cyclohexane	7.67	56	12085	0.913	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	47932	4.001	ug/l #	49
38) Carbon Tetrachloride	7.67	117	61046	4.872	ug/l #	16
43) Isopropyl Acetate	8.17	43	257992	20.713	ug/l	93
47) Bromodichloromethane	9.40	83	3134	0.262	ug/l #	70
48) Methyl methacrylate	9.18	41	3886	0.626	ug/l #	20
51) 4-Methyl-2-Pentanone	9.99	43	2101	0.307	ug/l	87
59) 2-Hexanone	10.77	43	13987	3.150	ug/l #	53
76) 1,2,3-Trichloropropane	12.40	75	196050	37.489	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	196050	115.276	ug/l #	13
95) Naphthalene	15.14	128	13871	9.038	ug/l	95

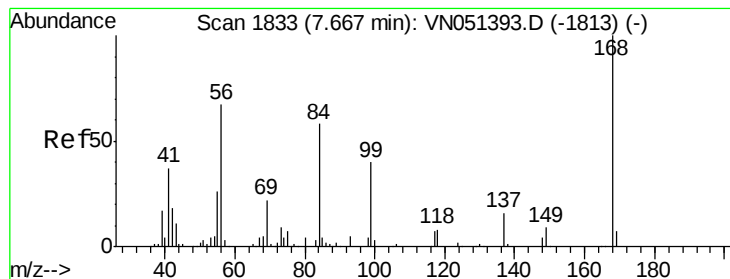
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.00 min

Lab File: VN051419.D

Acq: 23 Sep 2018 17:39

Instrument :

MSVOA_N

ClientSampleId :

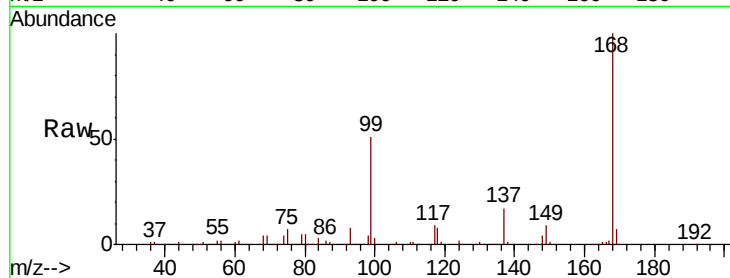
LS-SOIL-D

Tgt Ion:168 Resp: 671022

Ion Ratio Lower Upper

168 100

99 51.2 40.2 60.2



Abundance Ion 167.90 (167.60 to 168.60): VN051419.D (-16813) (-)

Ion 98.90 (98.60 to 99.60): VN051419.D (-9890) (-)

7.67

250000

200000

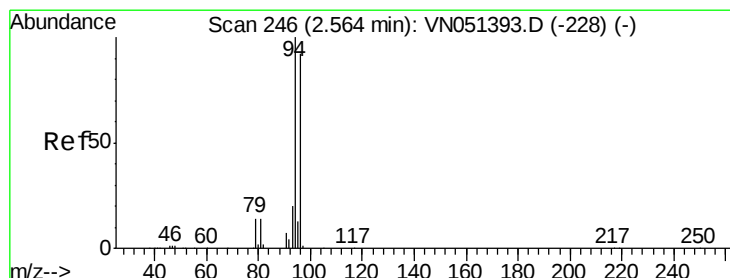
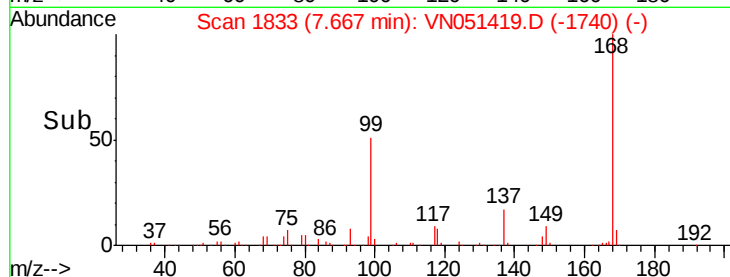
150000

100000

50000

0

Time-->



#5

Bromomethane

Concen: 0.328 ug/l

RT: 2.57 min Scan# 247

Delta R.T. 0.00 min

Lab File: VN051419.D

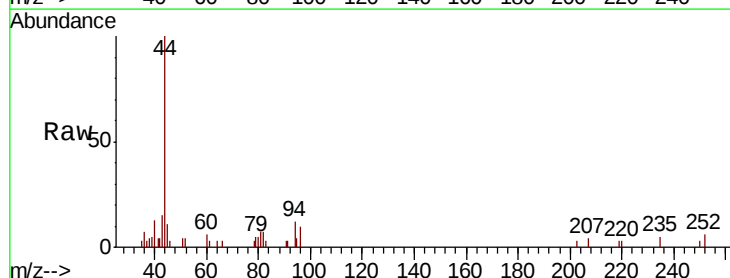
Acq: 23 Sep 2018 17:39

Tgt Ion: 94 Resp: 1772

Ion Ratio Lower Upper

94 100

96 87.3 73.6 110.4



Abundance Ion 93.90 (93.60 to 94.60): VN051419.D (-9390) (-)

Ion 95.90 (95.60 to 96.60): VN051419.D (-9590) (-)

2.57

1000

800

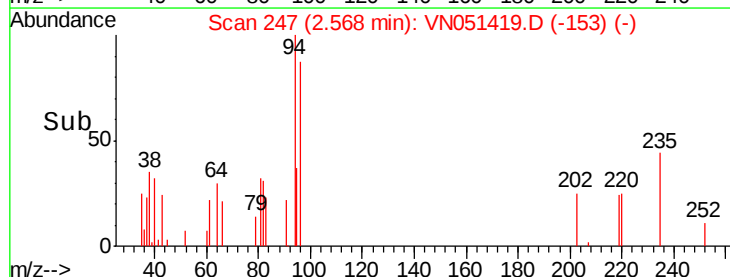
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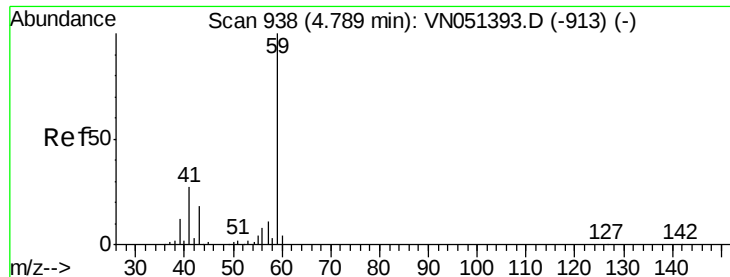
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200

0

Time-->

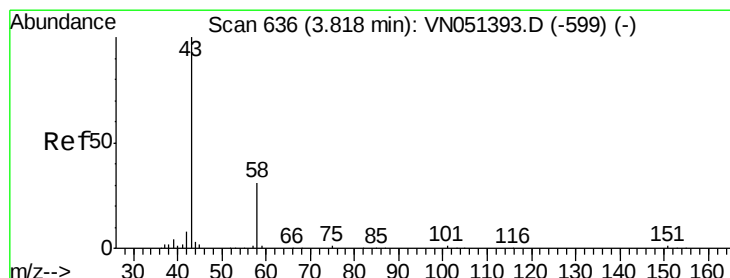
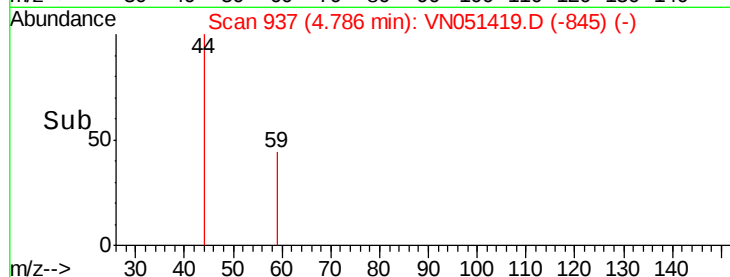
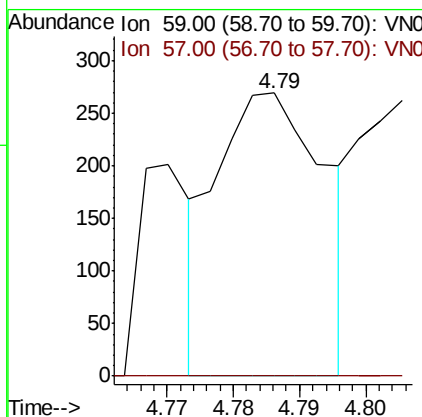
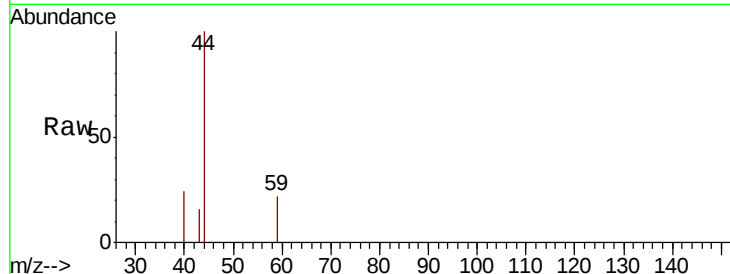




#11
Tert butyl alcohol
Concen: 0.639 ug/l
RT: 4.79 min Scan# 937
Delta R.T. -0.00 min
Lab File: VN051419.D
Acq: 23 Sep 2018 17:39

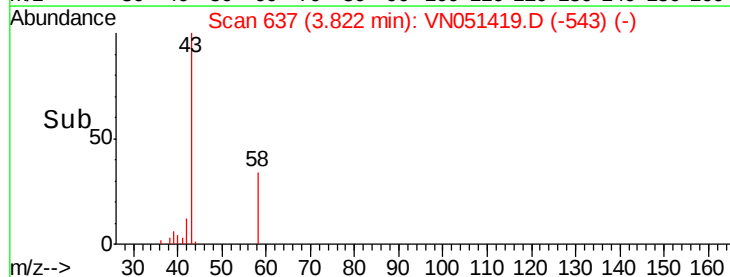
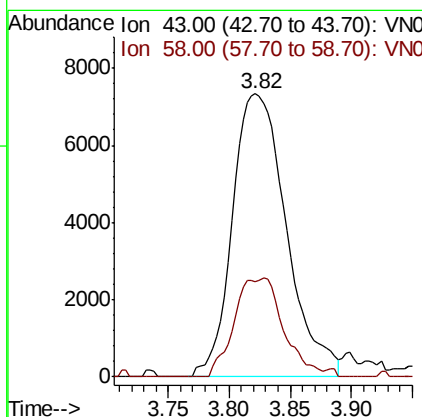
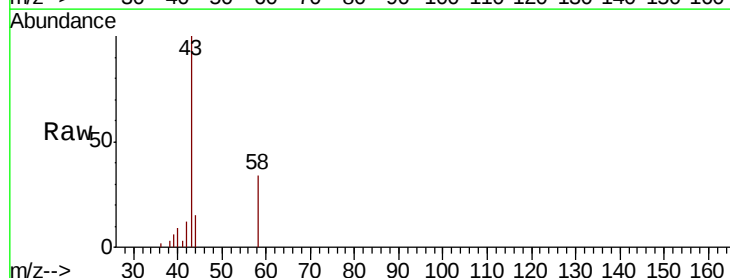
Instrument :
MSVOA_N
ClientSampled :
LS-SOIL-D

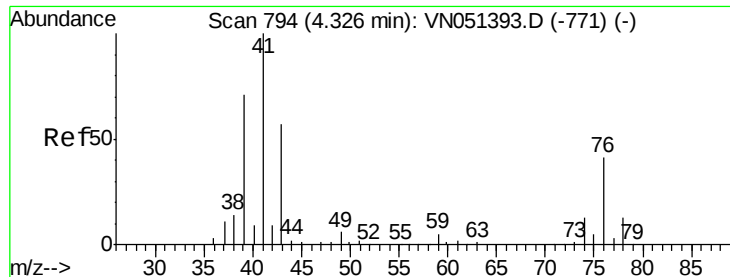
Tgt Ion: 59 Resp: 303
Ion Ratio Lower Upper
59 100
57 0.0 6.2 9.2#



#16
Acetone
Concen: Below Cal
RT: 3.82 min Scan# 637
Delta R.T. 0.00 min
Lab File: VN051419.D
Acq: 23 Sep 2018 17:39

Tgt Ion: 43 Resp: 22531
Ion Ratio Lower Upper
43 100
58 33.6 25.0 37.4

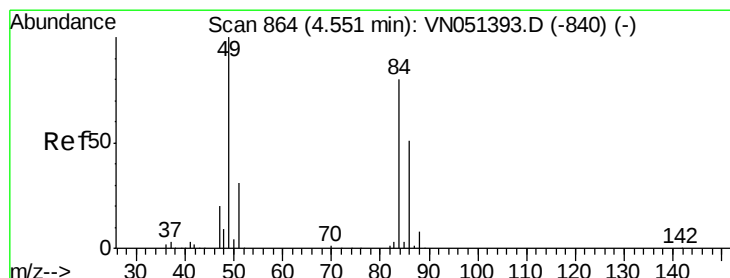
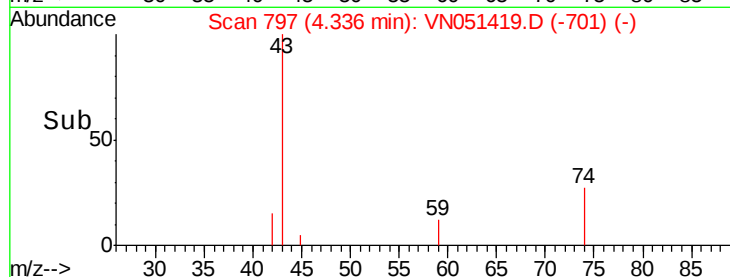
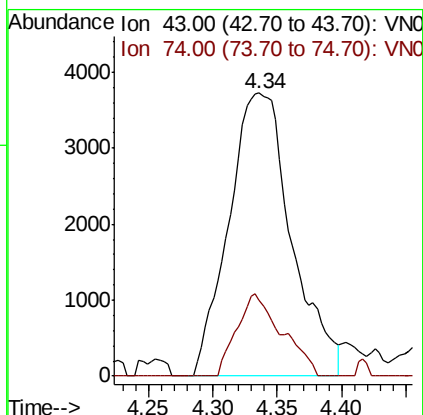
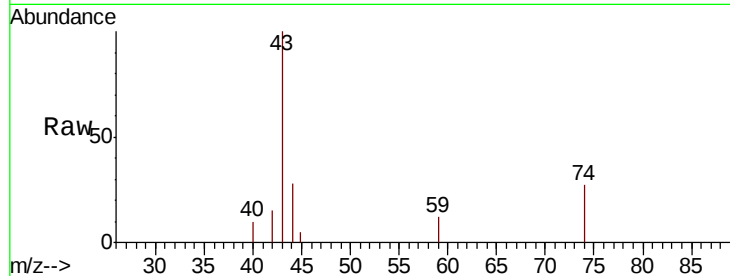




#18
Methyl Acetate
Concen: 1.972 ug/l
RT: 4.34 min Scan# 797
Delta R.T. 0.01 min
Lab File: VN051419.D
Acq: 23 Sep 2018 17:39

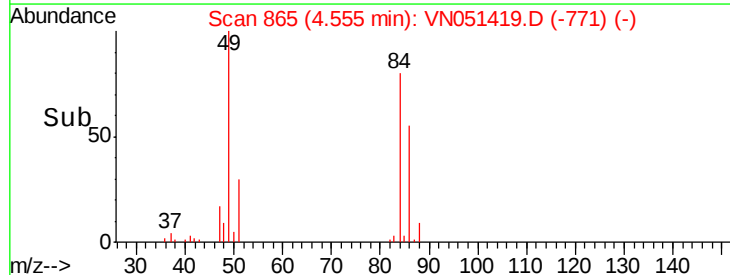
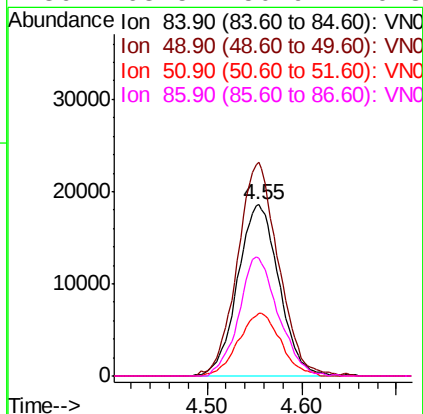
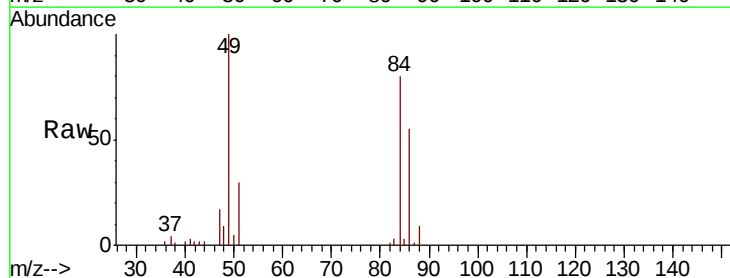
Instrument :
MSVOA_N
ClientSampled :
LS-SOIL-D

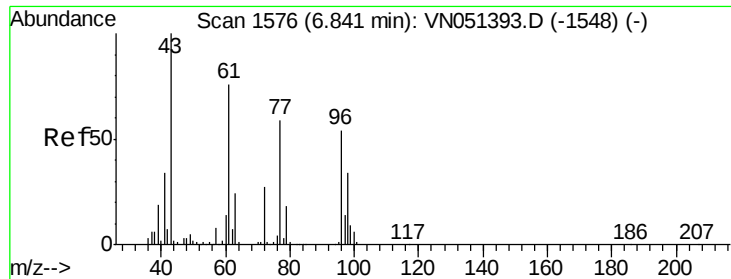
Tgt Ion: 43 Resp: 12622
Ion Ratio Lower Upper
43 100
74 20.9 18.8 28.2



#20
Methylene Chloride
Concen: 6.792 ug/l
RT: 4.55 min Scan# 865
Delta R.T. 0.00 min
Lab File: VN051419.D
Acq: 23 Sep 2018 17:39

Tgt Ion: 84 Resp: 56495
Ion Ratio Lower Upper
84 100
49 124.7 99.9 149.9
51 36.8 31.4 47.2
86 68.5 50.9 76.3

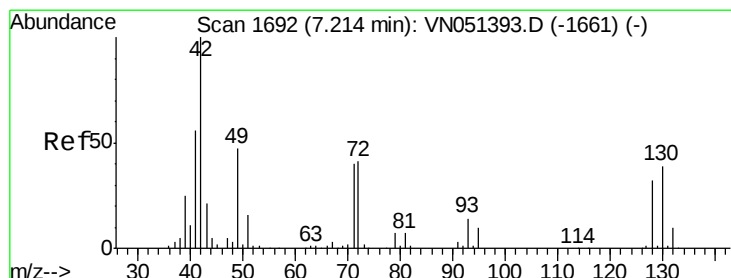
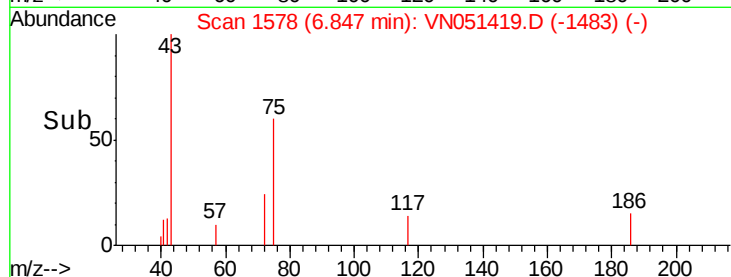
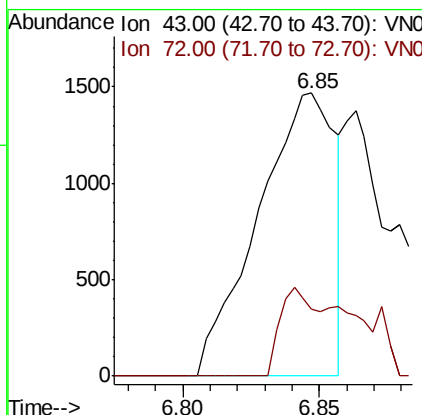
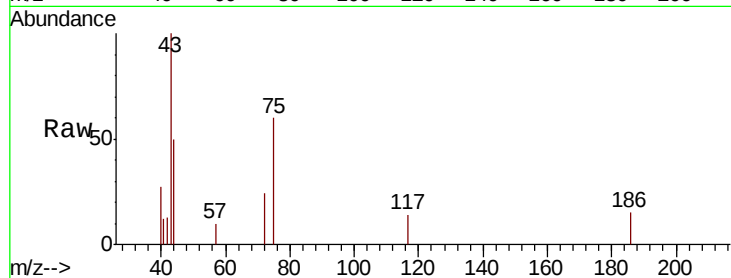




#25
 2-Butanone
 Concen: 1.000 ug/l
 RT: 6.85 min Scan# 1578
 Delta R.T. 0.01 min
 Lab File: VN051419.D
 Acq: 23 Sep 2018 17:39

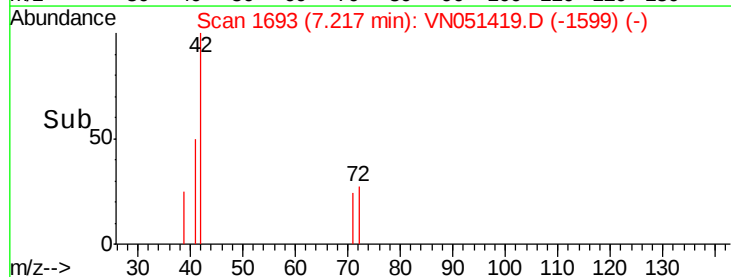
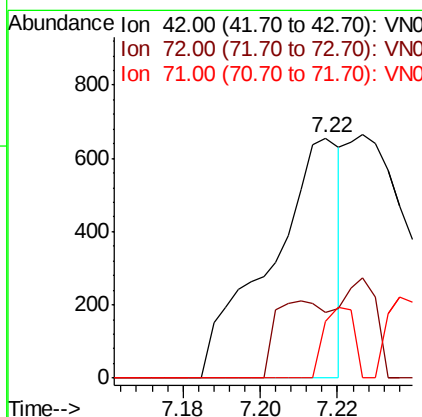
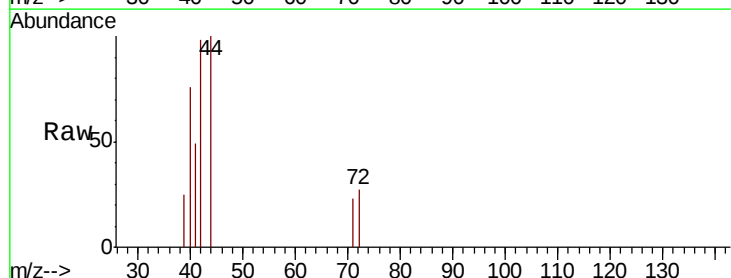
Instrument :
 MSVOA_N
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 LS-SOIL-D

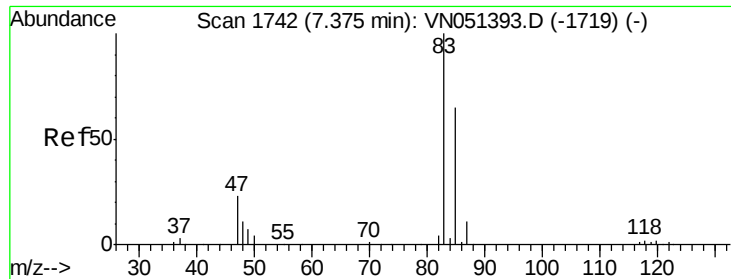
Tgt Ion: 43 Resp: 2877
 Ion Ratio Lower Upper
 43 100
 72 23.8 21.8 32.6



#29
 Tetrahydrofuran
 Concen: 0.452 ug/l
 RT: 7.22 min Scan# 1693
 Delta R.T. 0.00 min
 Lab File: VN051419.D
 Acq: 23 Sep 2018 17:39

Tgt Ion: 42 Resp: 824
 Ion Ratio Lower Upper
 42 100
 72 21.7 34.3 51.5#
 71 12.6 32.2 48.4#

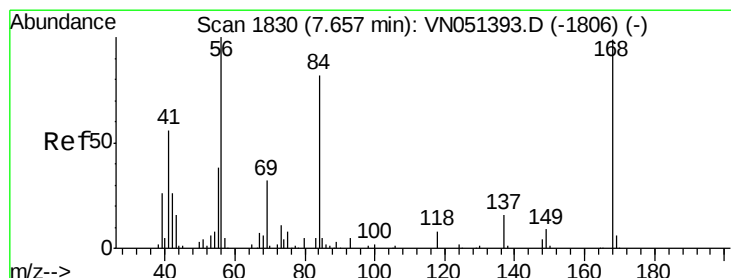
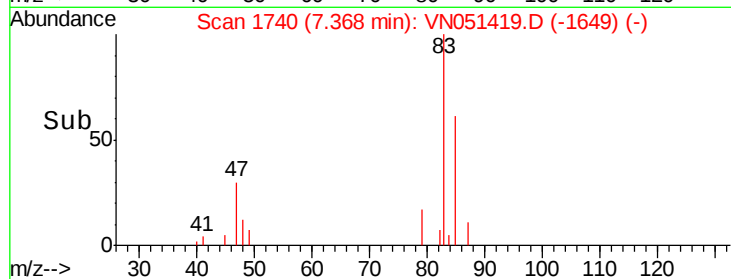
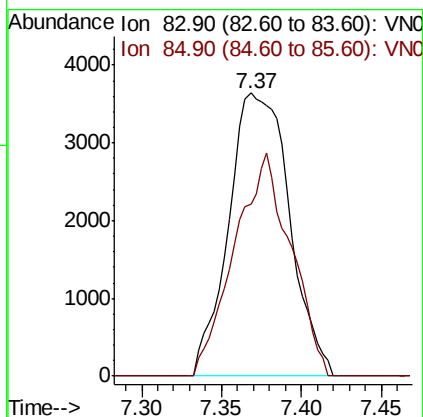
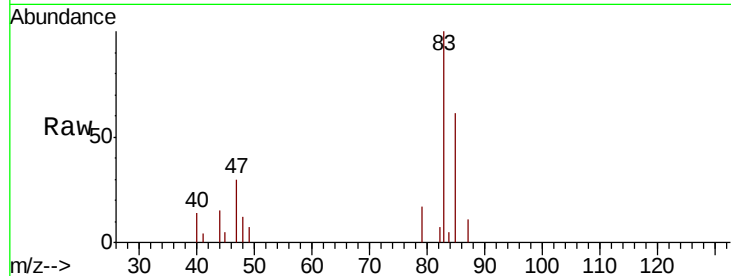




#30
Chloroform
Concen: 0.663 ug/l
RT: 7.37 min Scan# 1740
Delta R.T. -0.01 min
Lab File: VN051419.D
Acq: 23 Sep 2018 17:39

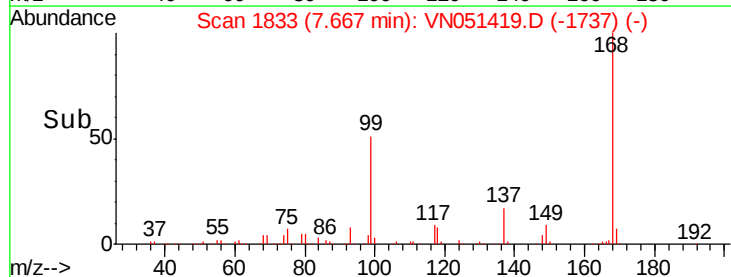
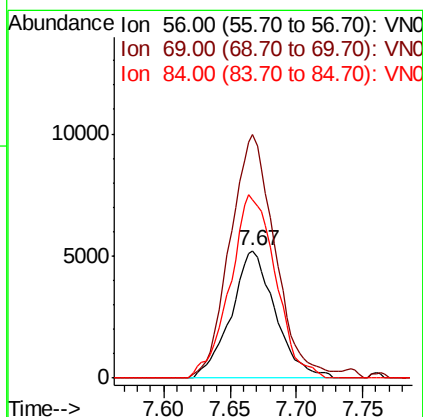
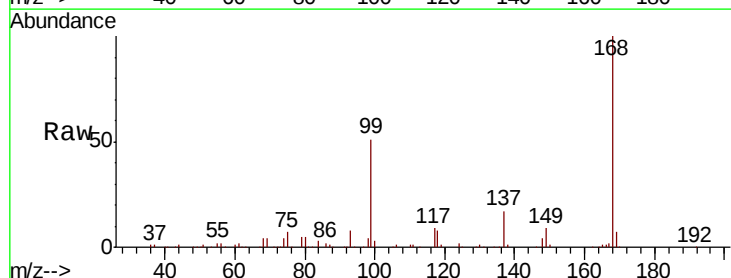
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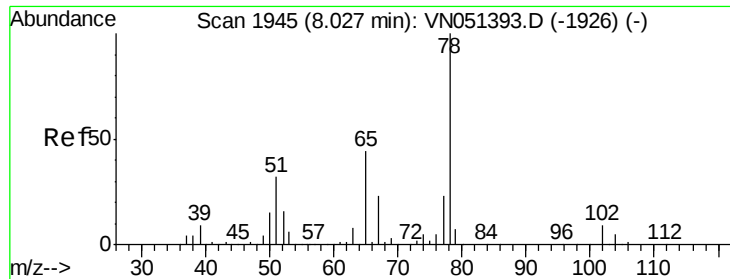
Tgt Ion: 83 Resp: 9490
Ion Ratio Lower Upper
83 100
85 60.6 51.8 77.6



#31
Cyclohexane
Concen: 0.913 ug/l
RT: 7.67 min Scan# 1833
Delta R.T. 0.01 min
Lab File: VN051419.D
Acq: 23 Sep 2018 17:39

Tgt Ion: 56 Resp: 12085
Ion Ratio Lower Upper
56 100
69 190.6 25.8 38.6#
84 139.6 66.0 99.0#

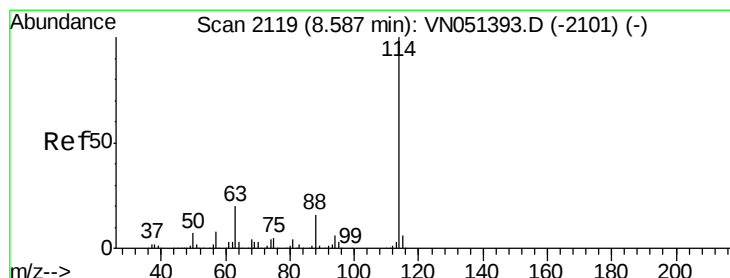
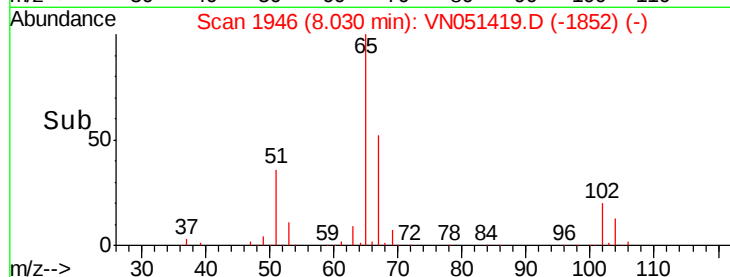
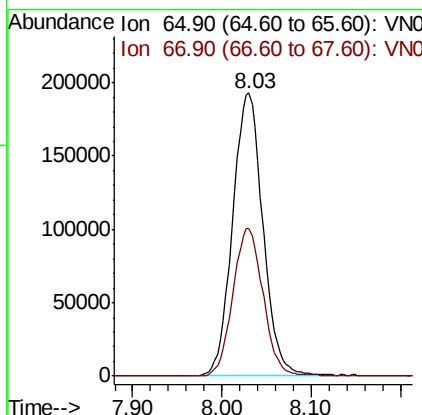
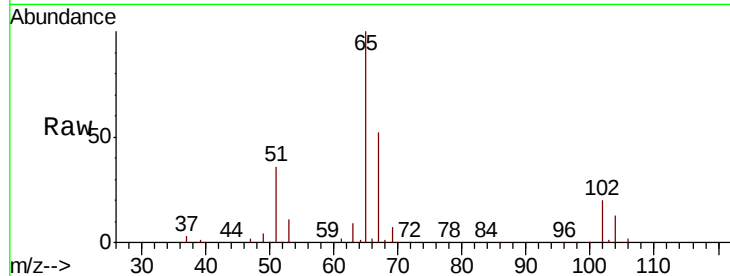




#33
 1,2-Dichloroethane-d4
 Concen: 54.206 ug/l
 RT: 8.03 min Scan# 1946
 Delta R.T. 0.00 min
 Lab File: VN051419.D
 Acq: 23 Sep 2018 17:39

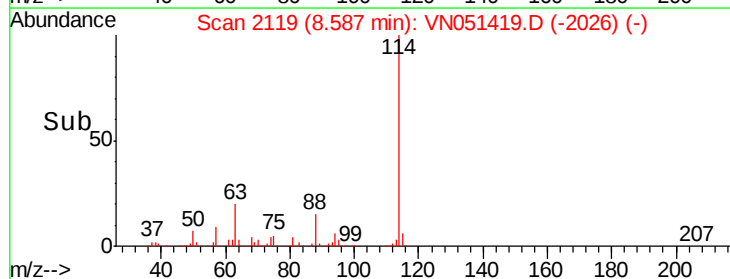
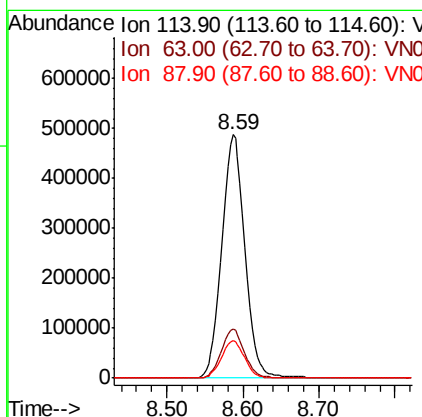
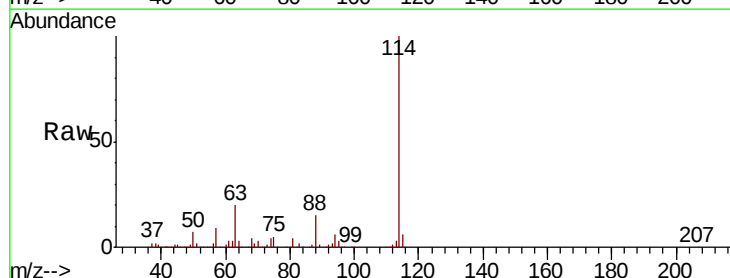
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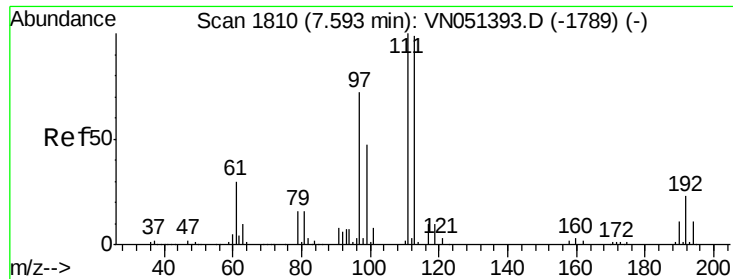
Tgt Ion: 65 Resp: 455644
 Ion Ratio Lower Upper
 65 100
 67 51.9 0.0 107.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. -0.00 min
 Lab File: VN051419.D
 Acq: 23 Sep 2018 17:39

Tgt Ion: 114 Resp: 1034542
 Ion Ratio Lower Upper
 114 100
 63 20.3 0.0 40.2
 88 15.4 0.0 31.4

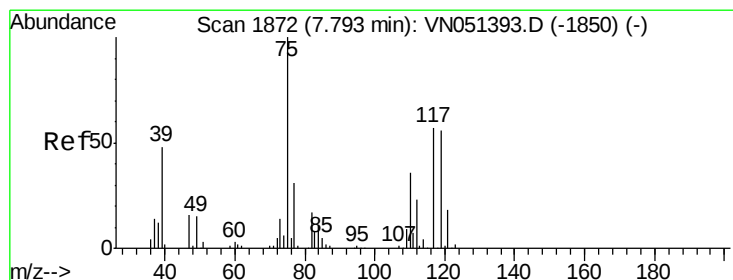
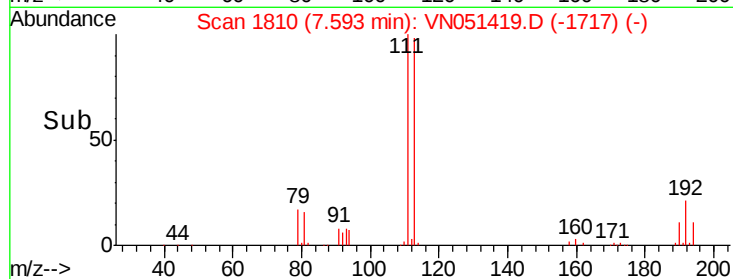
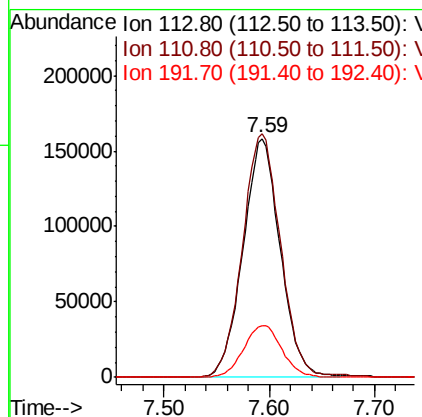
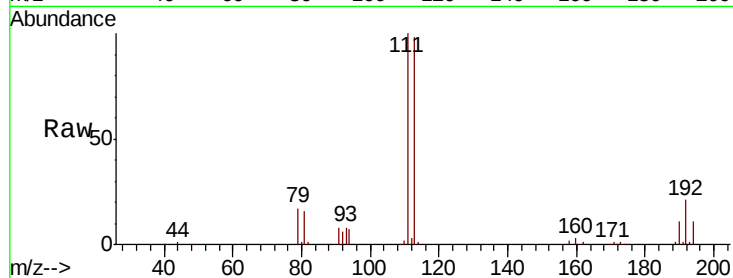




#35
 Dibromofluoromethane
 Concen: 46.960 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. -0.00 min
 Lab File: VN051419.D
 Acq: 23 Sep 2018 17:39

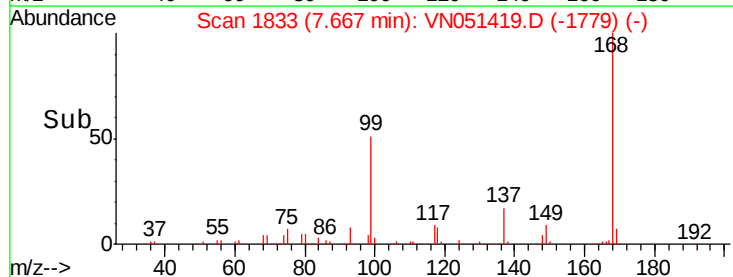
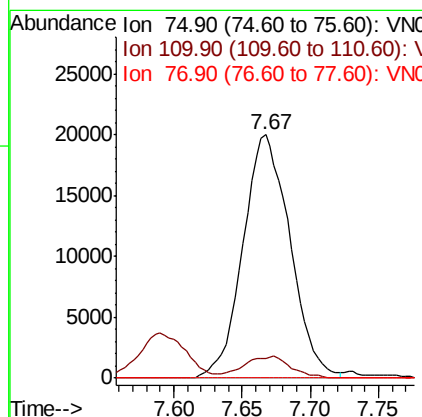
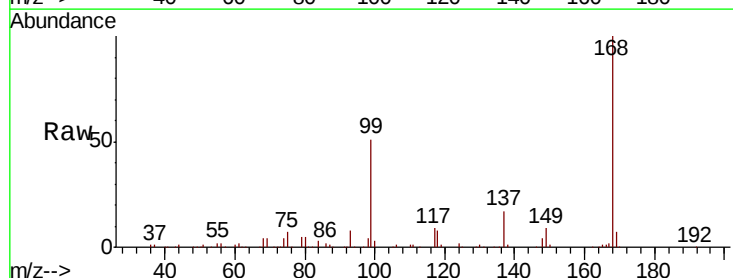
Instrument :
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 ClientSampleId :
 LS-SOIL-D

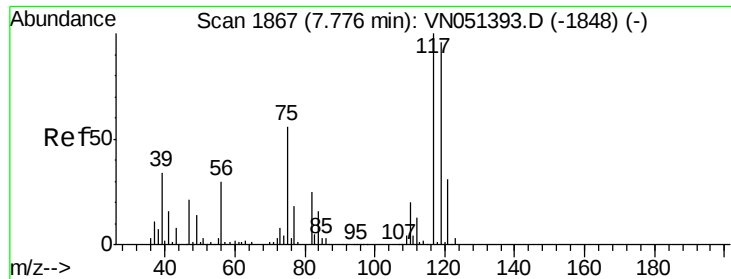
Tgt Ion	Ratio	Lower	Upper
113	100		
111	104.5	82.6	123.8
192	22.4	18.0	27.0



#36
 1,1-Dichloropropene
 Concen: 4.001 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.13 min
 Lab File: VN051419.D
 Acq: 23 Sep 2018 17:39

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.9	18.1	54.3#
77	0.0	25.6	38.4#





#38

Carbon Tetrachloride

Concen: 4.872 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.11 min

Lab File: VN051419.D

Acq: 23 Sep 2018 17:39

Instrument :

MSVOA_N

ClientSampleId :

LS-SOIL-D

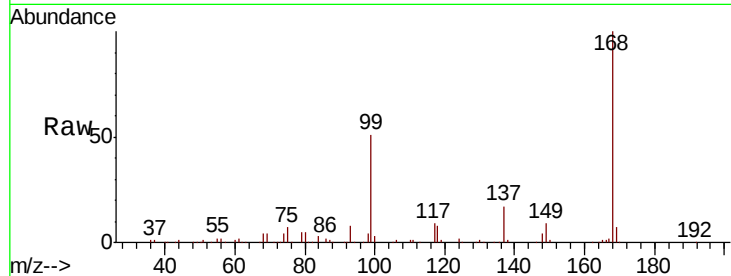
Tgt Ion:117 Resp: 61046

Ion Ratio Lower Upper

117 100

119 5.7 76.9 115.3#

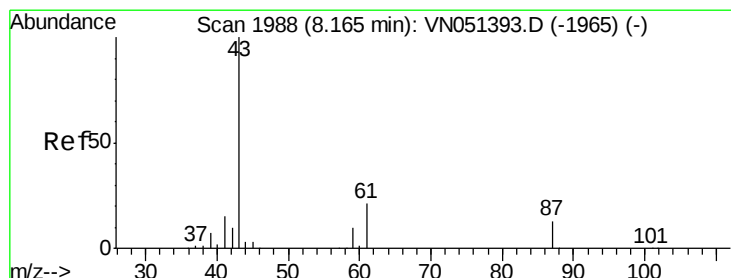
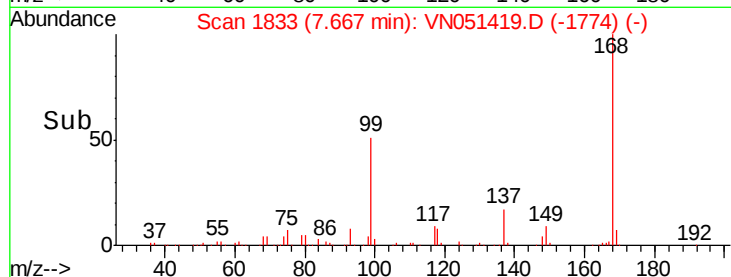
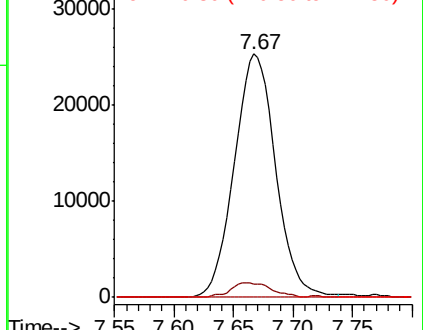
121 0.0 24.6 37.0#



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



#43

Isopropyl Acetate

Concen: 20.713 ug/l

RT: 8.17 min Scan# 1988

Delta R.T. -0.00 min

Lab File: VN051419.D

Acq: 23 Sep 2018 17:39

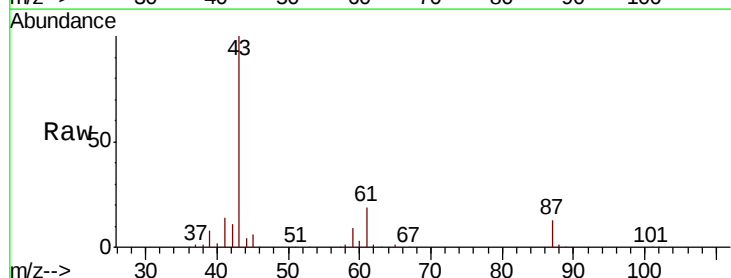
Tgt Ion: 43 Resp: 257992

Ion Ratio Lower Upper

43 100

61 17.2 16.8 25.2

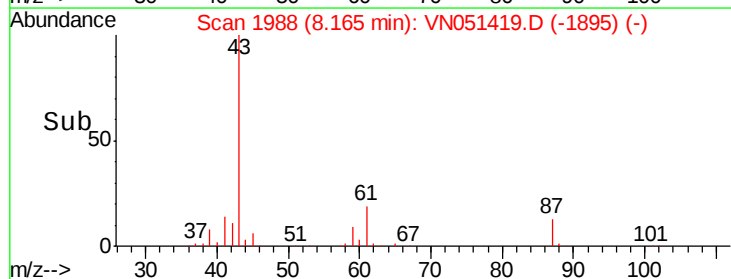
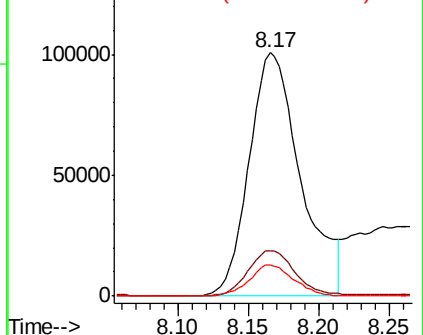
87 11.1 10.7 16.1

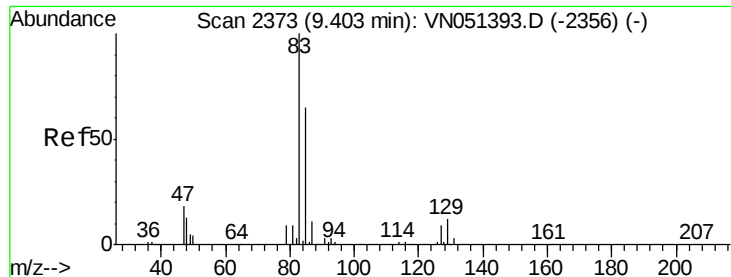


Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 61.00 (60.70 to 61.70): VNO

Ion 87.00 (86.70 to 87.70): VNO





#47

Bromodichloromethane

Concen: 0.262 ug/l

RT: 9.40 min Scan# 2372

Delta R.T. -0.00 min

Lab File: VN051419.D

Acq: 23 Sep 2018 17:39

Instrument :

MSVOA_N

ClientSampleId :

LS-SOIL-D

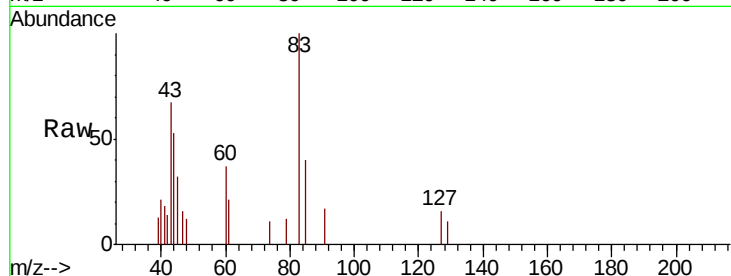
Tgt Ion: 83 Resp: 3134

Ion Ratio Lower Upper

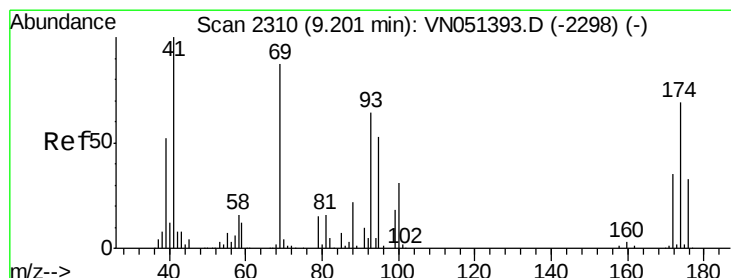
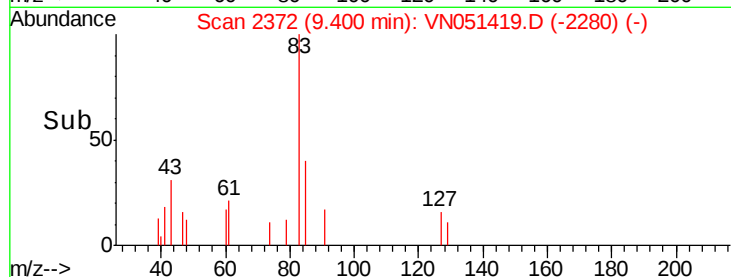
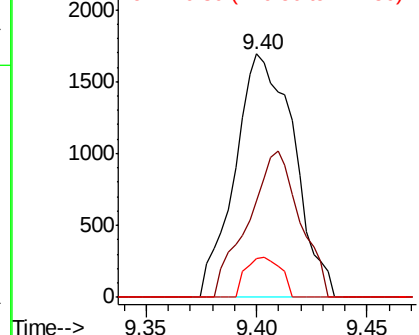
83 100

85 39.5 51.8 77.6#

127 15.7 7.4 11.2#



Abundance Ion 82.90 (82.60 to 83.60): VNO
Ion 84.90 (84.60 to 85.60): VNO
Ion 126.80 (126.50 to 127.50): VNO



#48

Methyl methacrylate

Concen: 0.626 ug/l

RT: 9.18 min Scan# 2302

Delta R.T. -0.03 min

Lab File: VN051419.D

Acq: 23 Sep 2018 17:39

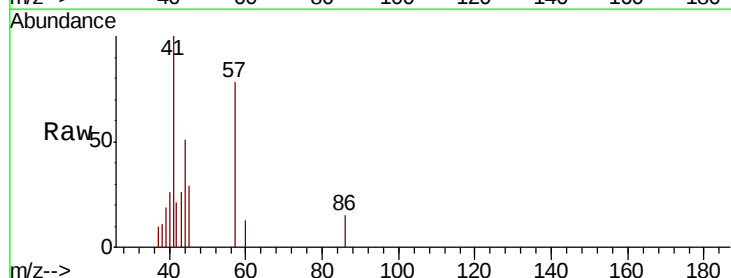
Tgt Ion: 41 Resp: 3886

Ion Ratio Lower Upper

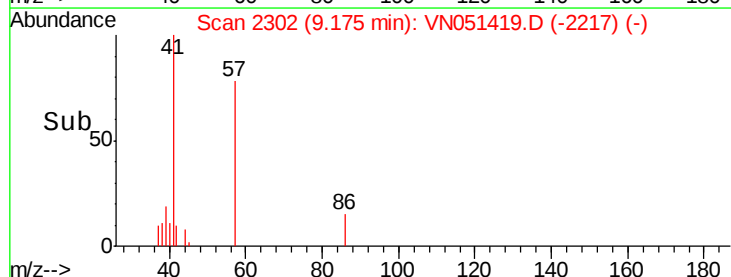
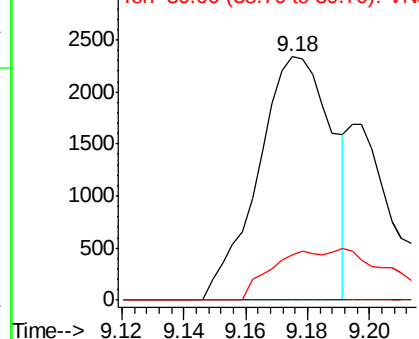
41 100

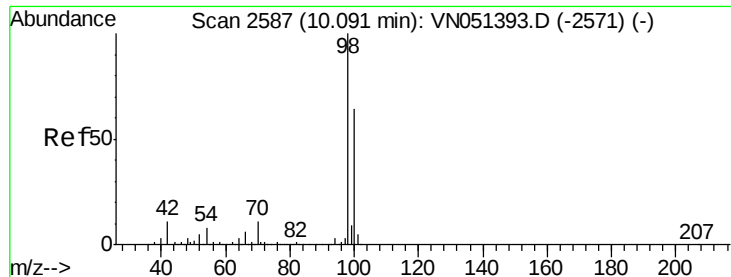
69 0.0 70.4 105.6#

39 14.6 43.8 65.8#



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





#50

Toluene-d8

Concen: 46.246 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN051419.D

Acq: 23 Sep 2018 17:39

Instrument :

MSVOA_N

ClientSampleId :

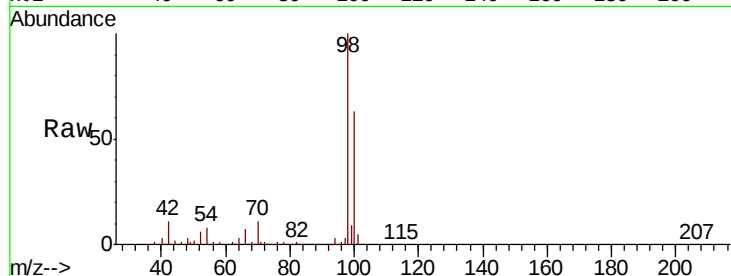
LS-SOIL-D

Tgt Ion: 98 Resp: 1440672

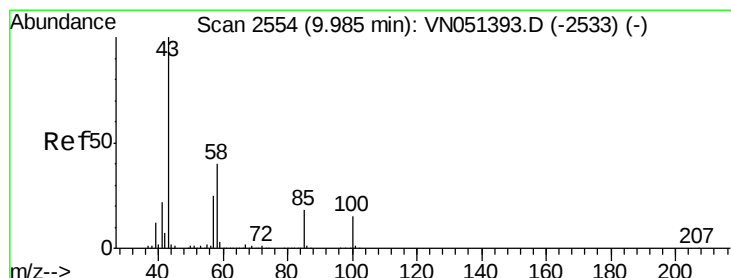
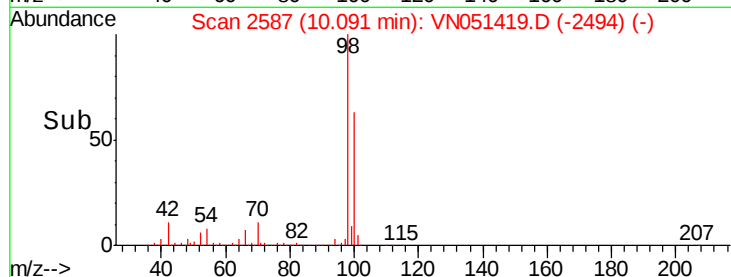
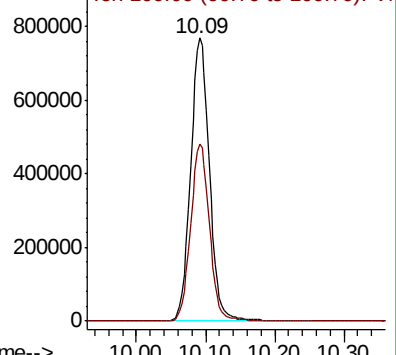
Ion Ratio Lower Upper

98 100

100 62.6 50.6 75.8



Abundance Ion 98.00 (97.70 to 98.70): VN051393.D (-2571) (-)



#51

4-Methyl-2-Pentanone

Concen: 0.307 ug/l

RT: 9.99 min Scan# 2555

Delta R.T. 0.00 min

Lab File: VN051419.D

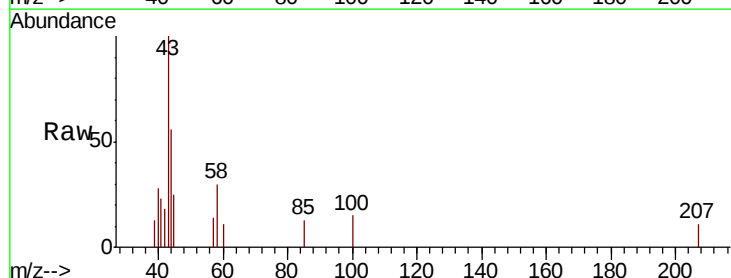
Acq: 23 Sep 2018 17:39

Tgt Ion: 43 Resp: 2101

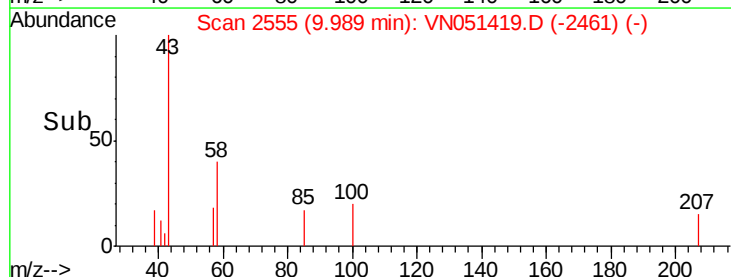
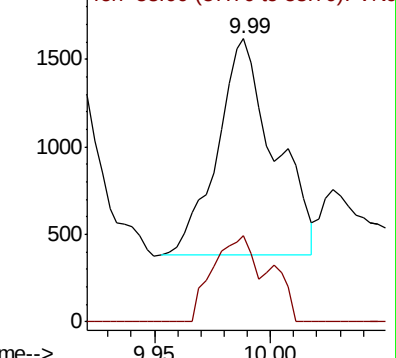
Ion Ratio Lower Upper

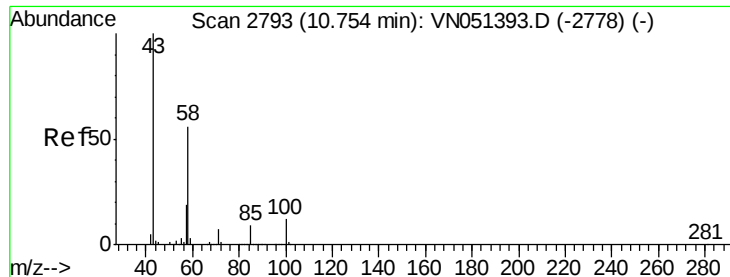
43 100

58 31.7 31.5 47.3



Abundance Ion 43.00 (42.70 to 43.70): VN051393.D (-2533) (-)

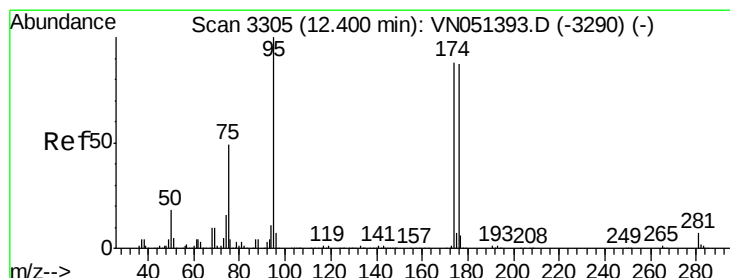
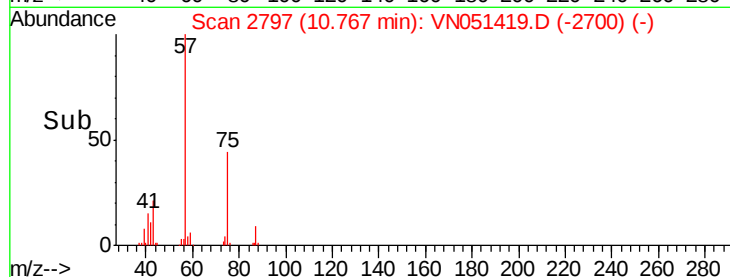
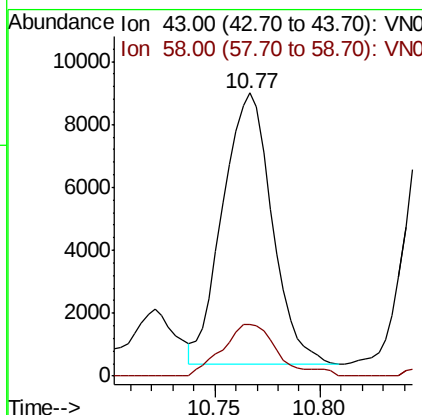
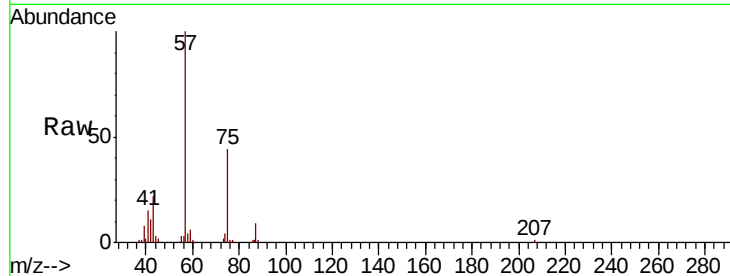




#59
2-Hexanone
Concen: 3.150 ug/l
RT: 10.77 min Scan# 2797
Delta R.T. 0.01 min
Lab File: VN051419.D
Acq: 23 Sep 2018 17:39

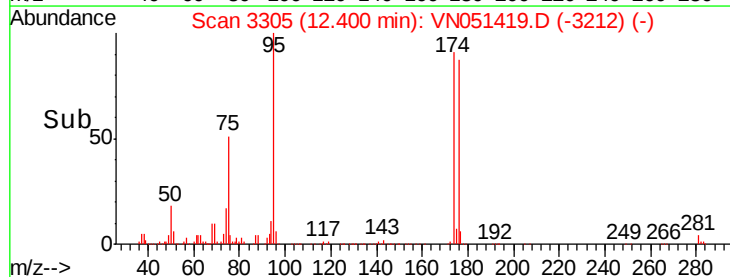
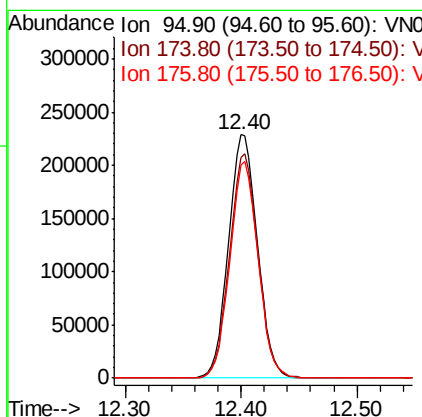
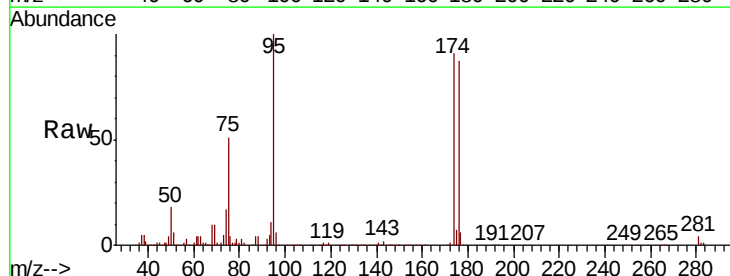
Instrument :
MSVOA_N
ClientSampled :
LS-SOIL-D

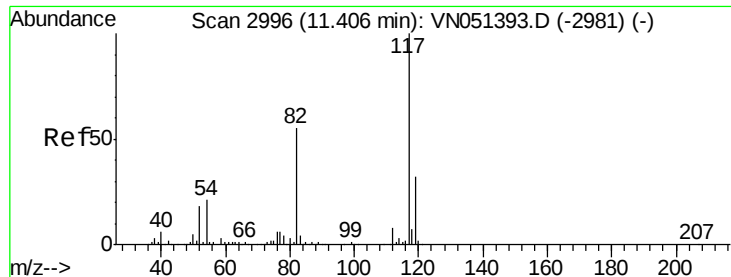
Tgt Ion: 43 Resp: 13987
Ion Ratio Lower Upper
43 100
58 21.5 27.7 83.0#



#62
4-Bromofluorobenzene
Concen: 38.906 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. -0.00 min
Lab File: VN051419.D
Acq: 23 Sep 2018 17:39

Tgt Ion: 95 Resp: 392081
Ion Ratio Lower Upper
95 100
174 90.5 0.0 181.6
176 87.0 0.0 176.4

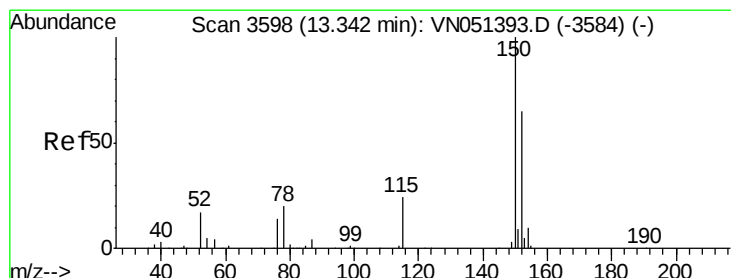
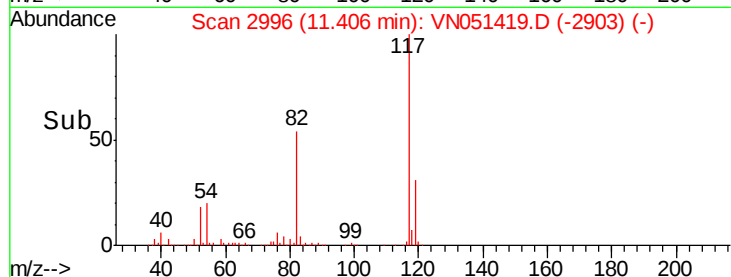
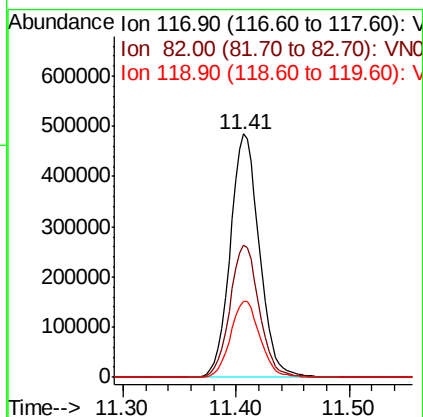
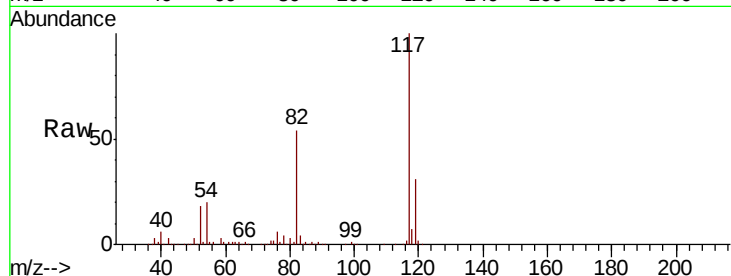




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN051419.D
Acq: 23 Sep 2018 17:39

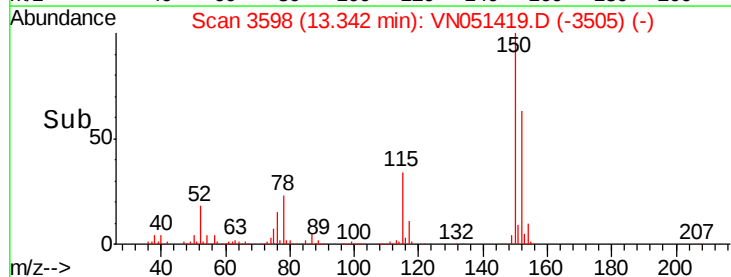
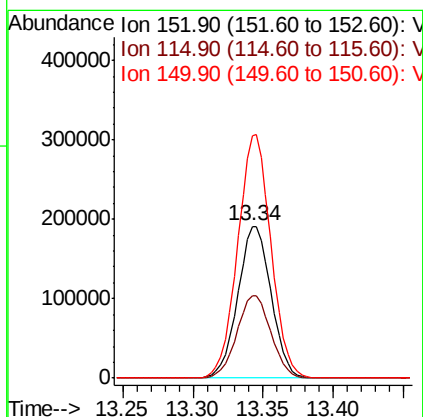
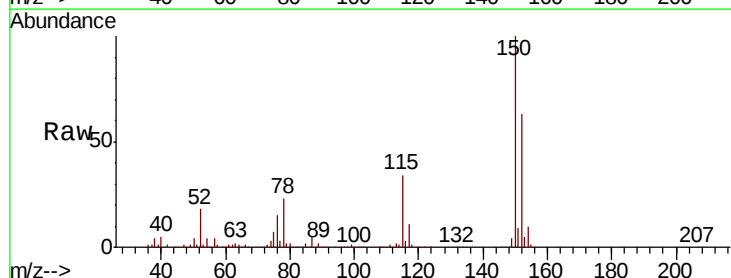
Instrument :
MSVOA_N
ClientSampleId :
LS-SOIL-D

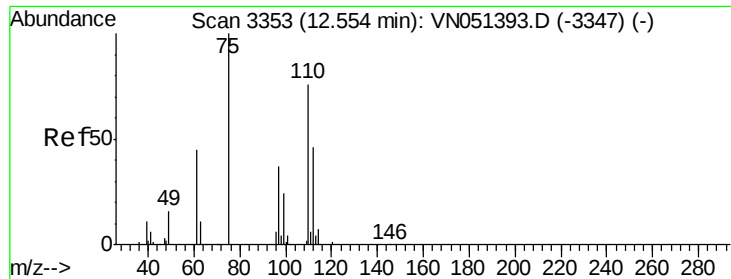
Tgt Ion:117 Resp: 865119
Ion Ratio Lower Upper
117 100
82 54.4 44.2 66.2
119 31.4 25.9 38.9



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3598
Delta R.T. -0.00 min
Lab File: VN051419.D
Acq: 23 Sep 2018 17:39

Tgt Ion:152 Resp: 315021
Ion Ratio Lower Upper
152 100
115 55.6 28.3 84.9
150 160.5 0.0 353.6





#76

1,2,3-Trichloropropane

Concen: 37.489 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN051419.D

Acq: 23 Sep 2018 17:39

Instrument :

MSVOA_N

ClientSampleId :

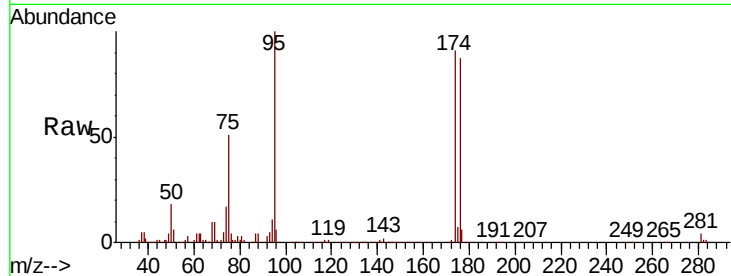
LS-SOIL-D

Tgt Ion: 75 Resp: 196050

Ion Ratio Lower Upper

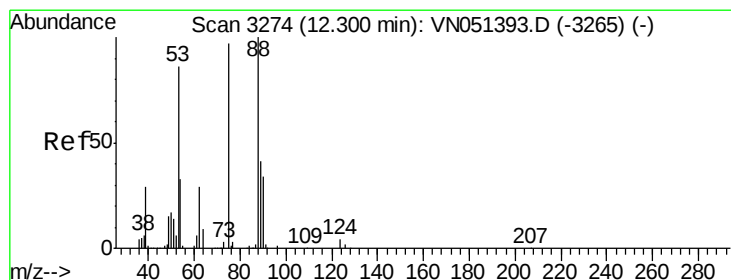
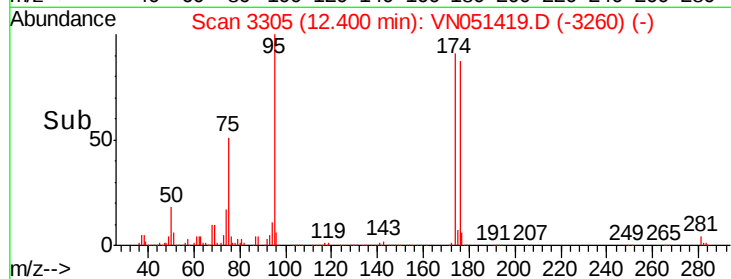
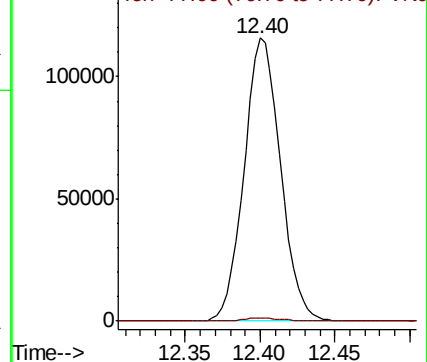
75 100

77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 77.00 (76.70 to 77.70): VNO



#81

trans-1,4-Dichloro-2-butene

Concen: 115.276 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN051419.D

Acq: 23 Sep 2018 17:39

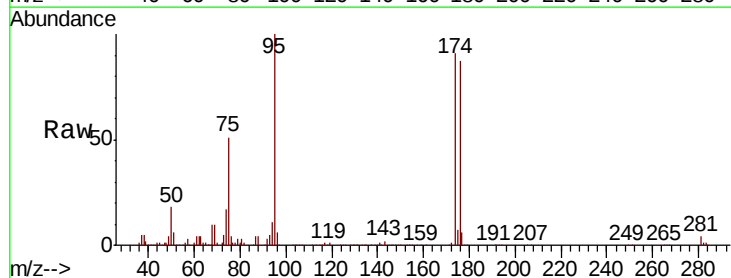
Tgt Ion: 75 Resp: 196050

Ion Ratio Lower Upper

75 100

53 0.2 73.9 110.9#

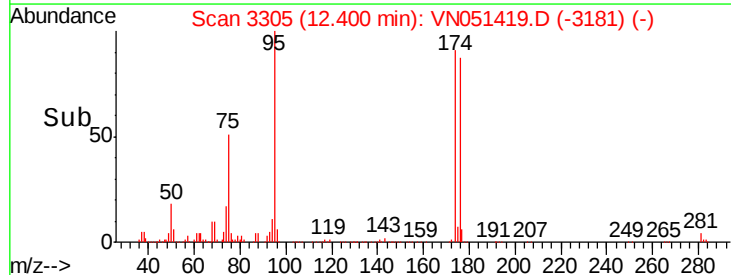
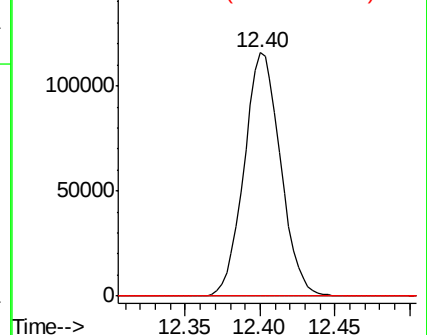
89 0.0 36.7 55.1#

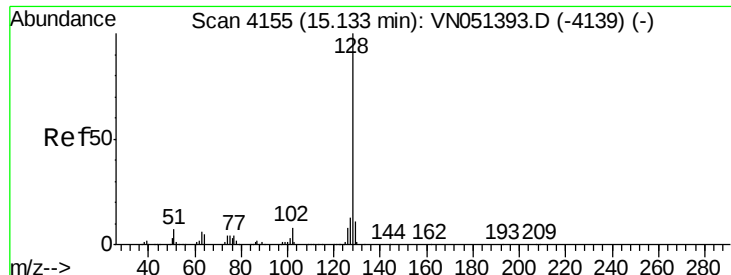


Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO





#95

Naphthalene

Concen: 9.038 ug/l

RT: 15.14 min Scan# 4156

Delta R.T. 0.00 min

Lab File: VN051419.D

Acq: 23 Sep 2018 17:39

Instrument :

MSVOA_N

ClientSampleId :

LS-SOIL-D

Tgt Ion:128 Resp: 13871

Ion Ratio Lower Upper

128 100

127 15.2 10.5 15.7

129 9.3 8.6 12.8

