

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN101618\
 Data File : VN051892.D
 Acq On : 16 Oct 2018 13:38
 Operator : MD\SY
 Sample : J5509-03
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 14 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 MS-SOIL

Quant Time: Oct 17 02:24:31 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N101118W.M
 Quant Title : SW846 8260
 QLast Update : Fri Oct 12 09:51:20 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	871008	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1271756	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1111663	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	425470	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	476589	57.25	ug/l	0.00
Spiked Amount			Recovery	=	114.50%	
35) Dibromofluoromethane	7.59	113	475949	60.19	ug/l	0.00
Spiked Amount			Recovery	=	120.38%	
50) Toluene-d8	10.09	98	1729886	58.70	ug/l	0.00
Spiked Amount			Recovery	=	117.40%	
62) 4-Bromofluorobenzene	12.40	95	504964	49.64	ug/l	0.00
Spiked Amount			Recovery	=	99.28%	

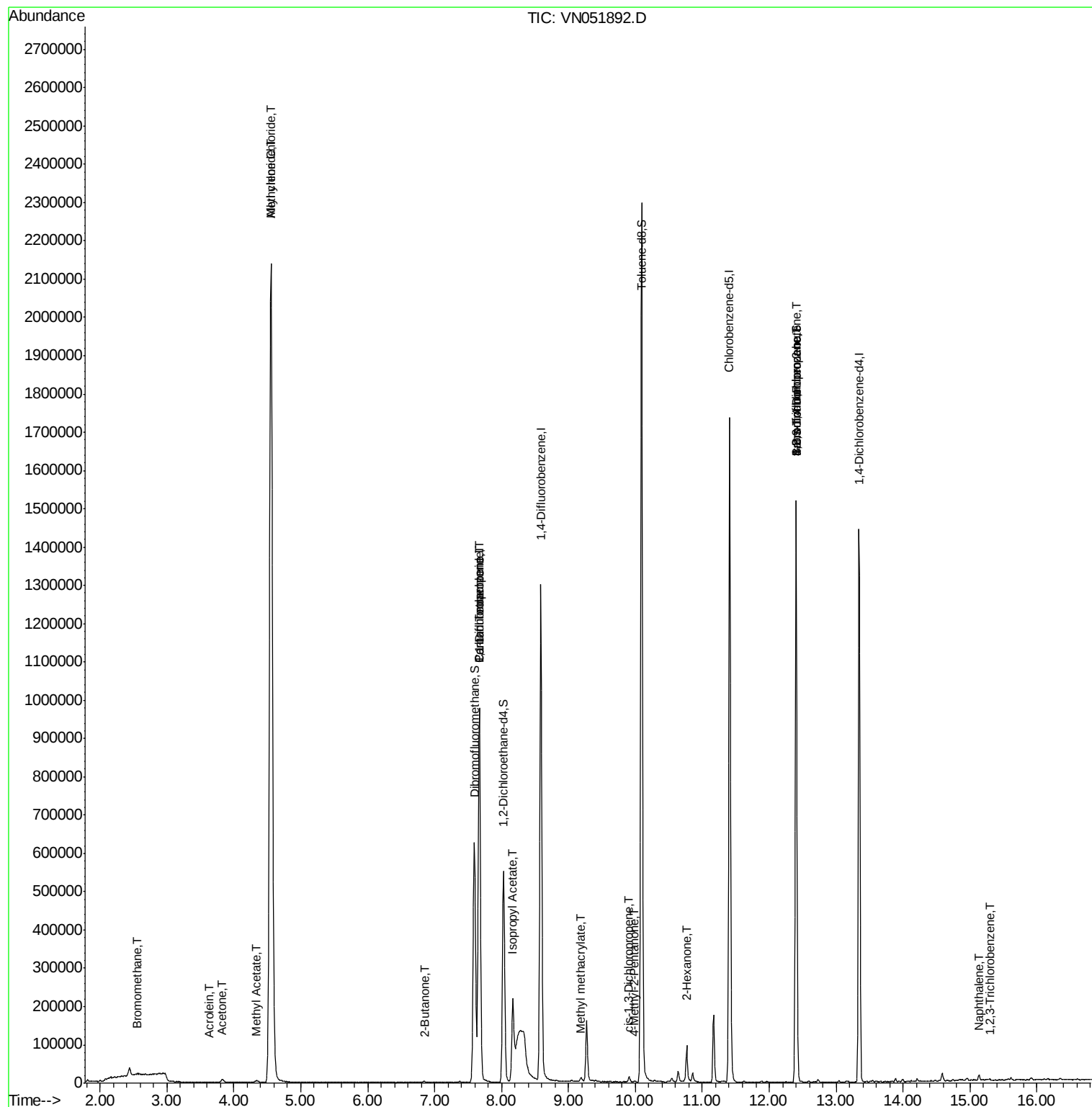
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.57	94	2133	0.269	ug/l	81
13) Acrolein	3.63	56	30	15.985	ug/l #	1
14) Allyl chloride	4.56	41	38002	4.842	ug/l #	28
16) Acetone	3.83	43	13377	7.451	ug/l #	83
18) Methyl Acetate	4.34	43	8886	0.818	ug/l	97
20) Methylene Chloride	4.55	84	1809539	243.532	ug/l	89
25) 2-Butanone	6.85	43	1540	0.607	ug/l #	85
31) Cyclohexane	7.67	56	15097	Below Cal	#	14
36) 1,1-Dichloropropene	7.67	75	54423	5.286	ug/l #	51
38) Carbon Tetrachloride	7.67	117	78318	6.562	ug/l #	15
43) Isopropyl Acetate	8.17	43	267878	25.122	ug/l	96
48) Methyl methacrylate	9.18	41	6107	1.297	ug/l #	15
51) 4-Methyl-2-Pentanone	9.99	43	1535	0.280	ug/l	90
54) cis-1,3-Dichloropropene	9.91	75	2585	0.219	ug/l #	69
59) 2-Hexanone	10.77	43	13010	3.376	ug/l #	52
71) Bromoform	12.40	173	4457	4.192	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	252240	48.034	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	252240	136.521	ug/l #	15
95) Naphthalene	15.14	128	12655	5.132	ug/l #	94
96) 1,2,3-Trichlorobenzene	15.32	180	61	2.865	ug/l #	12

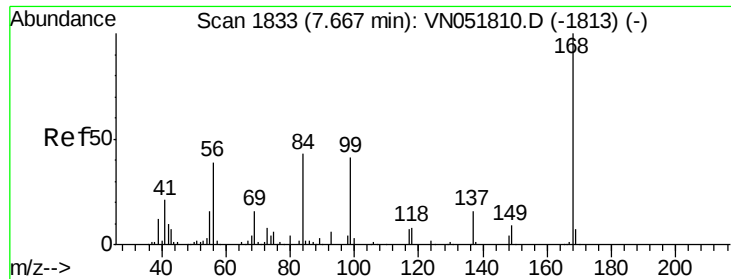
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Fri Oct 12 09:51:20 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN051892.D

Acq: 16 Oct 2018 13:38

Instrument :

MSVOA_N

ClientSampled :

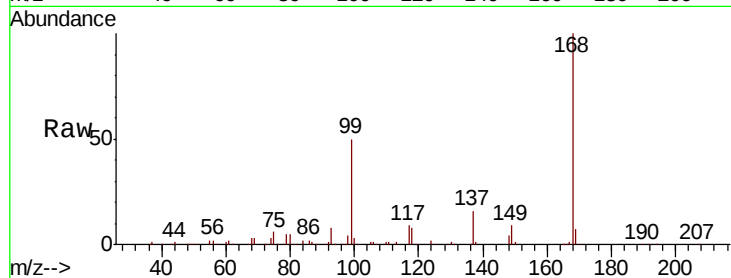
MS-SOIL

Tgt Ion:168 Resp: 871008

Ion Ratio Lower Upper

168 100

99 50.2 39.6 59.4



Abundance Ion 167.90 (167.60 to 168.60): VN051810.D (-1813) (-)

Ion 98.90 (98.60 to 99.60): VN051810.D (-1813) (-)

7.67

400000

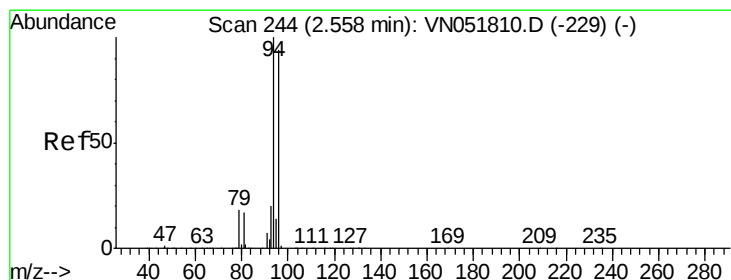
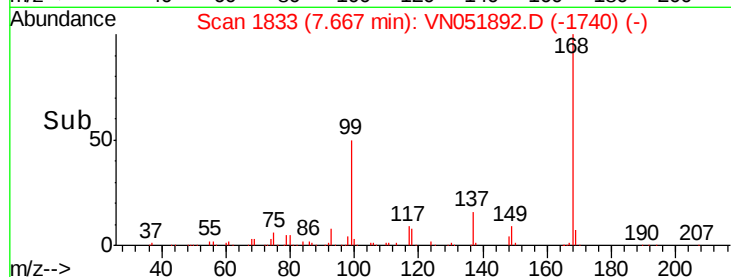
300000

200000

100000

0

Time-->



#5

Bromomethane

Concen: 0.269 ug/l

RT: 2.57 min Scan# 248

Delta R.T. 0.01 min

Lab File: VN051892.D

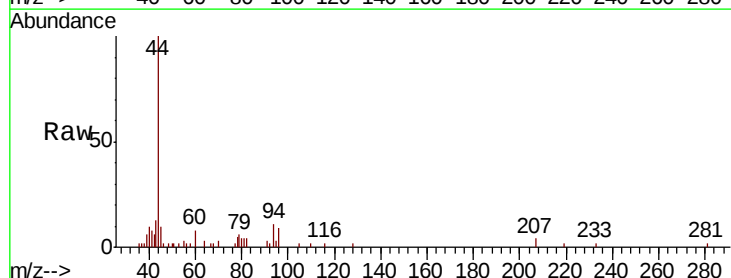
Acq: 16 Oct 2018 13:38

Tgt Ion: 94 Resp: 2133

Ion Ratio Lower Upper

94 100

96 76.6 76.2 114.2



Abundance Ion 93.90 (93.60 to 94.60): VN051810.D (-229) (-)

Ion 95.90 (95.60 to 96.60): VN051810.D (-229) (-)

2.57

1000

800

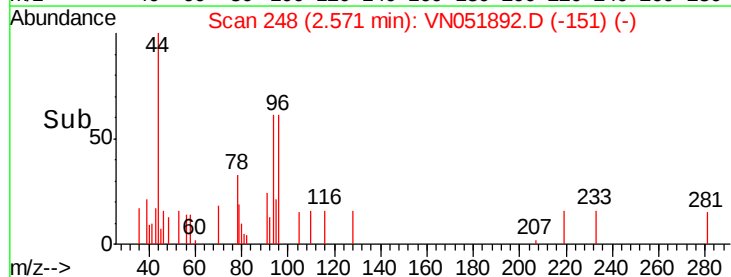
600

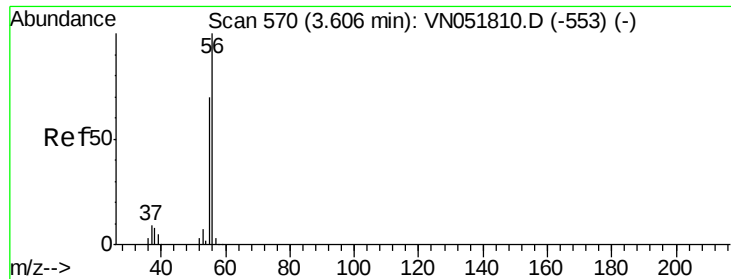
400

200

0

Time-->





#13

Acrolein

Concen: 15.985 ug/l

RT: 3.63 min Scan# 577

Delta R.T. 0.02 min

Lab File: VN051892.D

Acq: 16 Oct 2018 13:38

Instrument :

MSVOA_N

ClientSampleId :

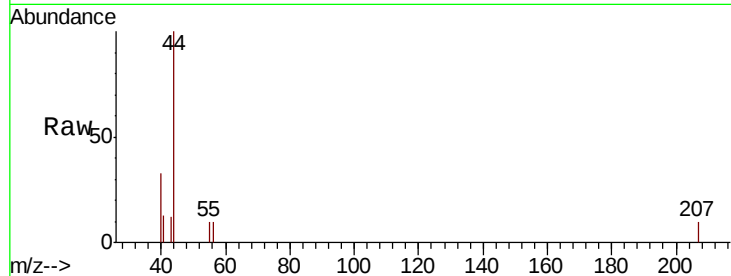
MS-SOIL

Tgt Ion: 56 Resp: 30

Ion Ratio Lower Upper

56 100

55 200.0 57.7 86.5#



Abundance Ion 56.00 (55.70 to 56.70): VN051810.D (-553) (-)

Ion 55.00 (54.70 to 55.70): VN051810.D (-553) (-)

3.63

150

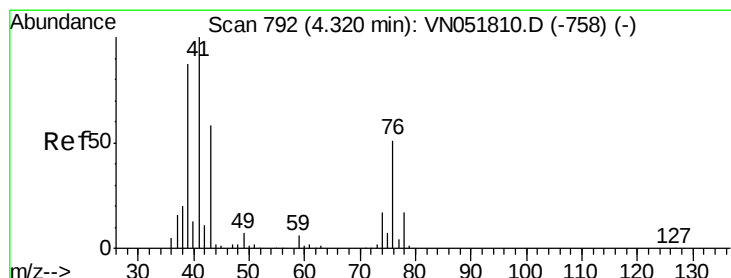
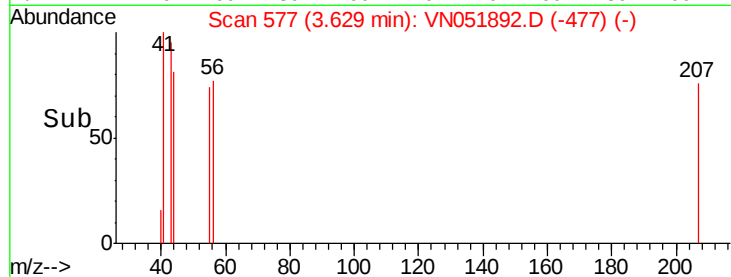
100

50

0

3.62 3.63 3.63 3.63

Time-->



#14

Allyl chloride

Concen: 4.842 ug/l

RT: 4.56 min Scan# 866

Delta R.T. 0.24 min

Lab File: VN051892.D

Acq: 16 Oct 2018 13:38

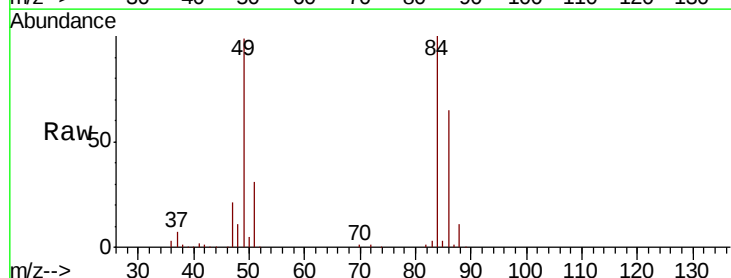
Tgt Ion: 41 Resp: 38002

Ion Ratio Lower Upper

41 100

39 2.1 50.2 75.2#

76 0.0 29.8 44.8#



Abundance Ion 41.00 (40.70 to 41.70): VN051892.D (-699) (-)

Ion 39.00 (38.70 to 39.70): VN051892.D (-699) (-)

Ion 75.90 (75.60 to 76.60): VN051892.D (-699) (-)

15000

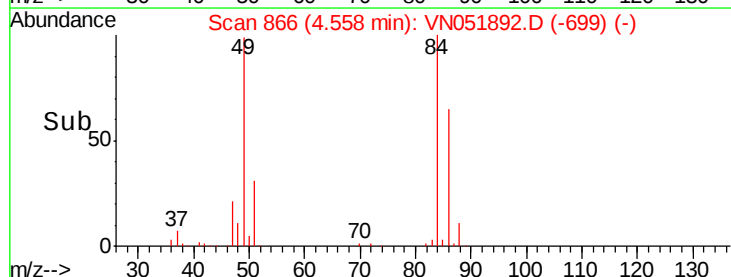
10000

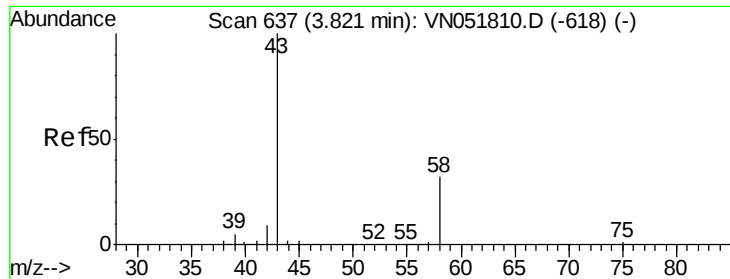
5000

0

4.45 4.50 4.55 4.60

Time-->





#16

Acetone

Concen: 7.451 ug/l

RT: 3.83 min Scan# 639

Delta R.T. 0.01 min

Lab File: VN051892.D

Acq: 16 Oct 2018 13:38

Instrument :

MSVOA_N

ClientSampled :

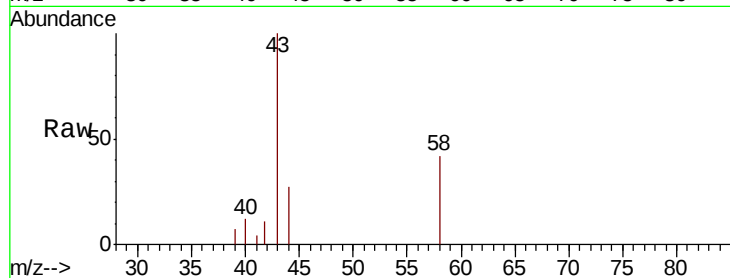
MS-SOIL

Tgt Ion: 43 Resp: 13377

Ion Ratio Lower Upper

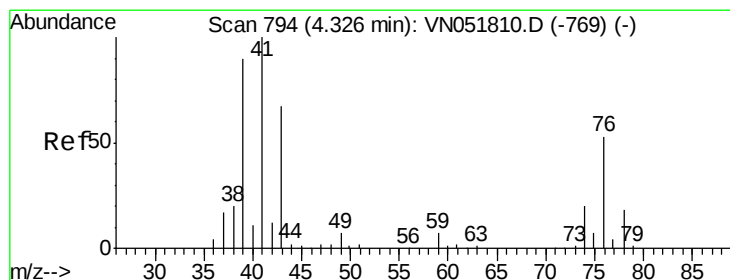
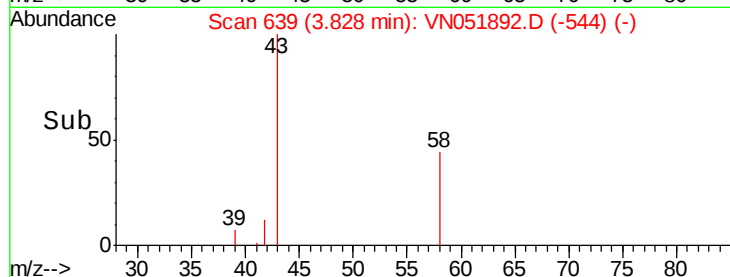
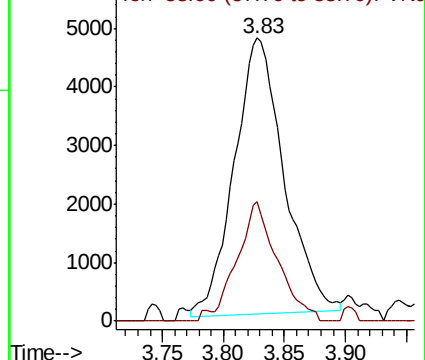
43 100

58 43.7 27.2 40.8#



Abundance Ion 43.00 (42.70 to 43.70): VN051892.D (-544) (-)

Ion 58.00 (57.70 to 58.70): VN051892.D (-544) (-)



#18

Methyl Acetate

Concen: 0.818 ug/l

RT: 4.34 min Scan# 798

Delta R.T. 0.01 min

Lab File: VN051892.D

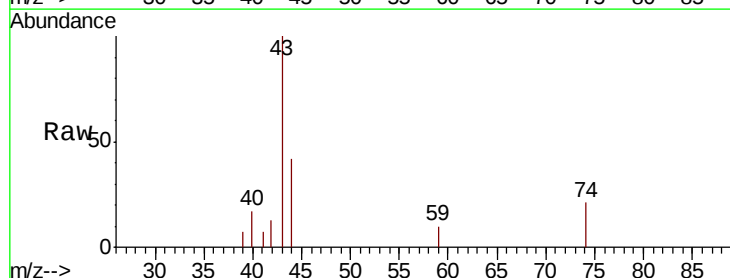
Acq: 16 Oct 2018 13:38

Tgt Ion: 43 Resp: 8886

Ion Ratio Lower Upper

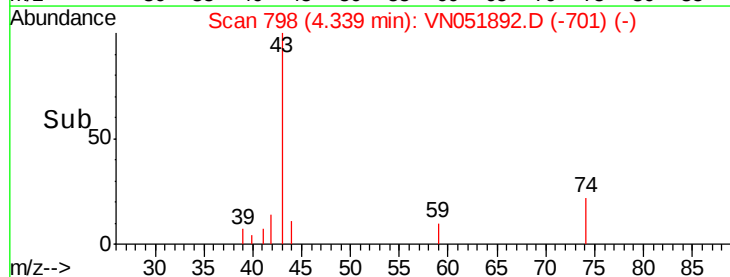
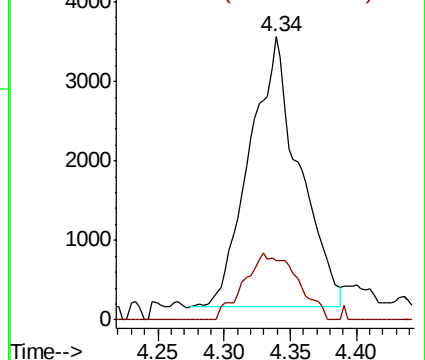
43 100

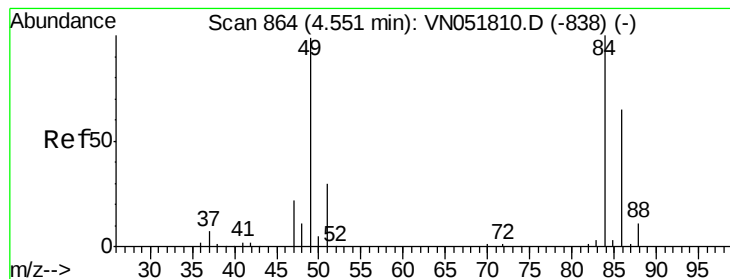
74 26.4 19.8 29.8



Abundance Ion 43.00 (42.70 to 43.70): VN051892.D (-701) (-)

Ion 74.00 (73.70 to 74.70): VN051892.D (-701) (-)





#20

Methylene Chloride

Concen: 243.532 ug/l

RT: 4.55 min Scan# 865

Delta R.T. 0.00 min

Lab File: VN051892.D

Acq: 16 Oct 2018 13:38

Instrument :

MSVOA_N

ClientSampled :

MS-SOIL

Tgt Ion: 84 Resp: 1809539

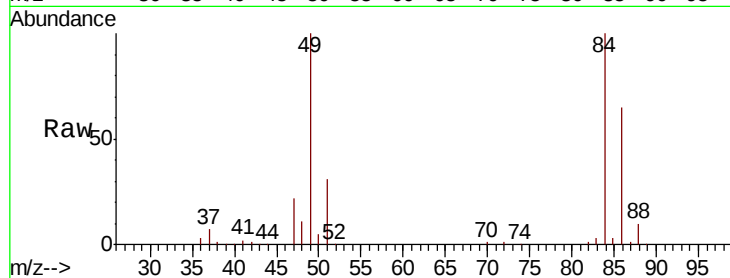
Ion Ratio Lower Upper

84 100

49 99.8 93.2 139.8

51 30.8 29.0 43.6

86 64.8 49.8 74.8

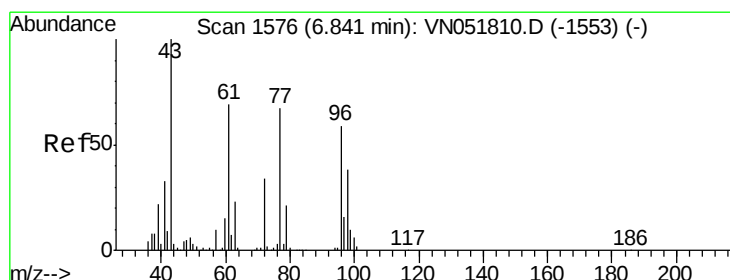
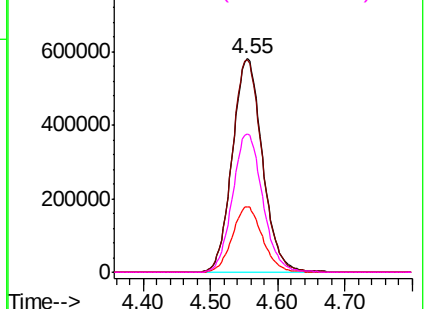
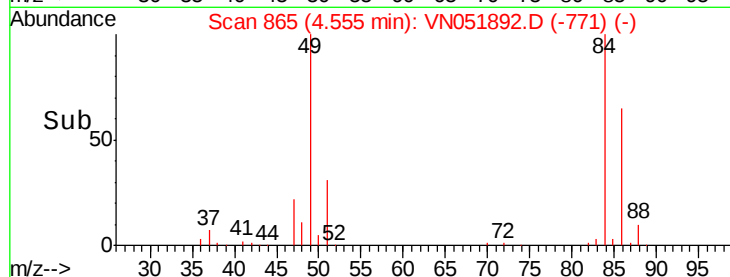


Abundance Ion 83.90 (83.60 to 84.60): VN0

Ion 48.90 (48.60 to 49.60): VN0

Ion 50.90 (50.60 to 51.60): VN0

Ion 85.90 (85.60 to 86.60): VN0



#25

2-Butanone

Concen: 0.607 ug/l

RT: 6.85 min Scan# 1578

Delta R.T. 0.01 min

Lab File: VN051892.D

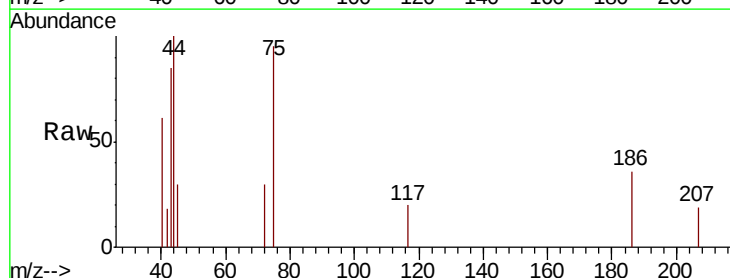
Acq: 16 Oct 2018 13:38

Tgt Ion: 43 Resp: 1540

Ion Ratio Lower Upper

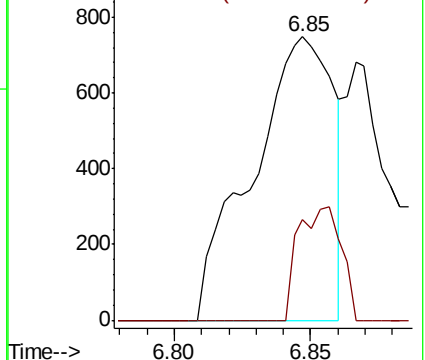
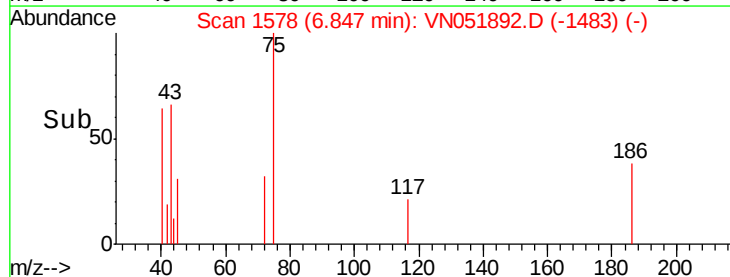
43 100

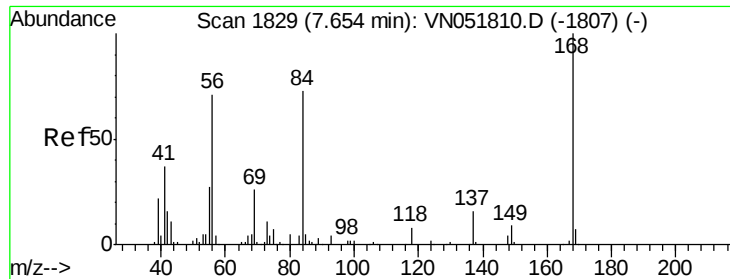
72 35.6 22.3 33.5#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

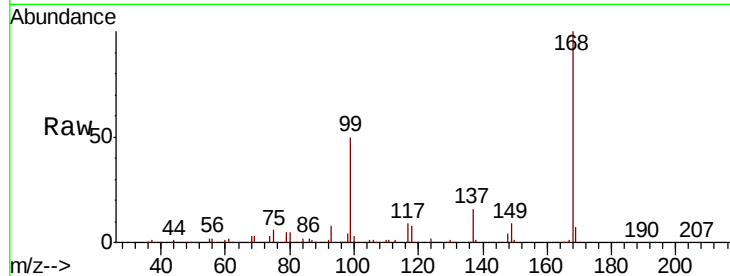




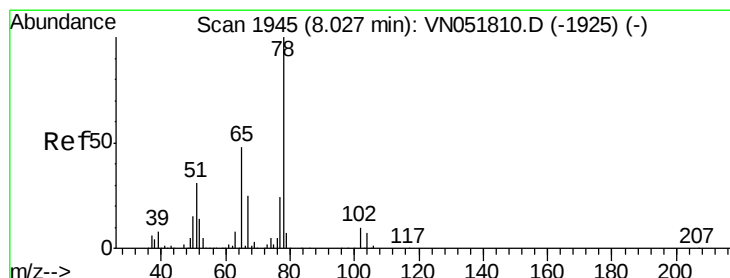
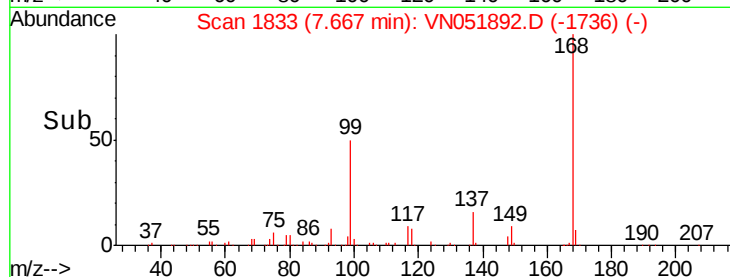
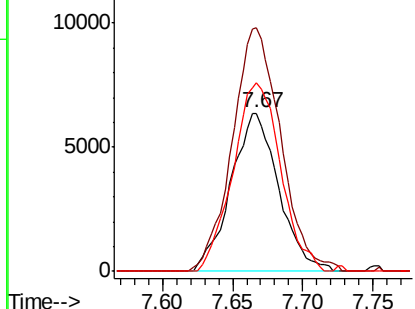
#31
Cyclohexane
Concen: Below Cal
RT: 7.67 min Scan# 1833
Delta R.T. 0.01 min
Lab File: VN051892.D
Acq: 16 Oct 2018 13:38

Instrument :
MSVOA_N
ClientSampled :
MS-SOIL

Tgt Ion: 56 Resp: 15097
Ion Ratio Lower Upper
56 100
69 154.0 26.2 39.4#
84 119.3 68.3 102.5#

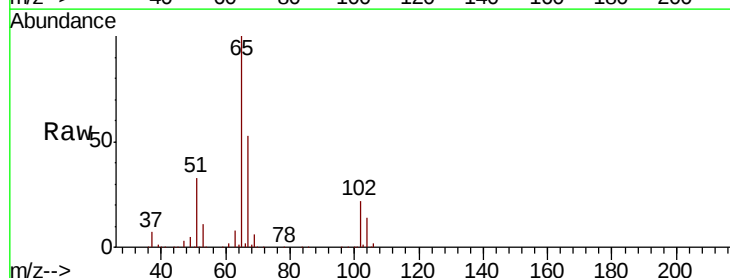


Abundance Ion 56.00 (55.70 to 56.70): VNC
Ion 69.00 (68.70 to 69.70): VNC
Ion 84.00 (83.70 to 84.70): VNC

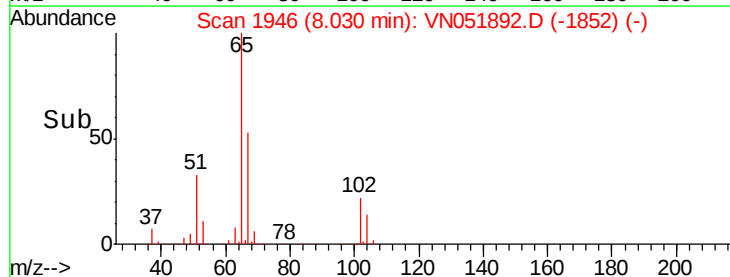
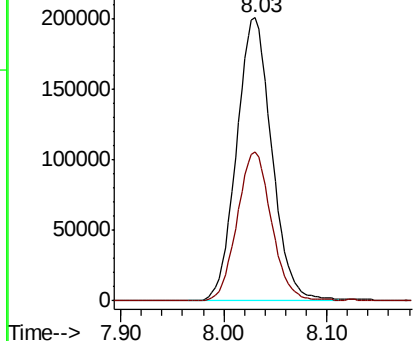


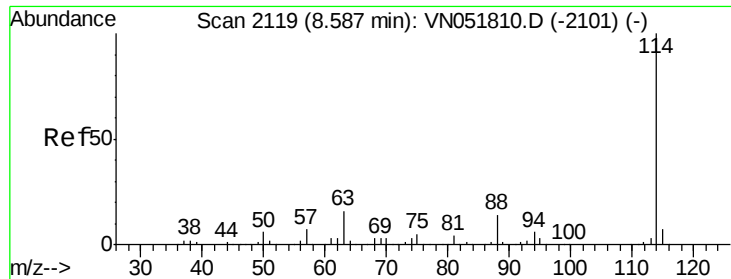
#33
1,2-Dichloroethane-d4
Concen: Below ug/l
RT: 8.03 min Scan# 1946
Delta R.T. 0.00 min
Lab File: VN051892.D
Acq: 16 Oct 2018 13:38

Tgt Ion: 65 Resp: 476589
Ion Ratio Lower Upper
65 100
67 51.2 0.0 110.4



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

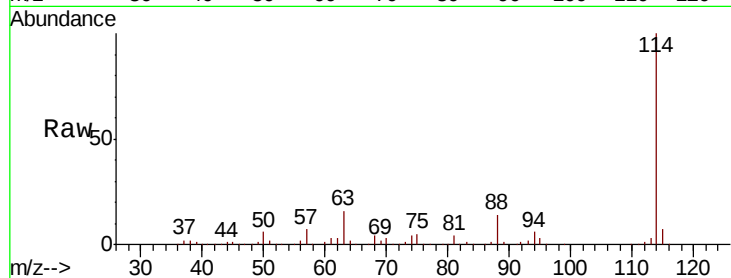




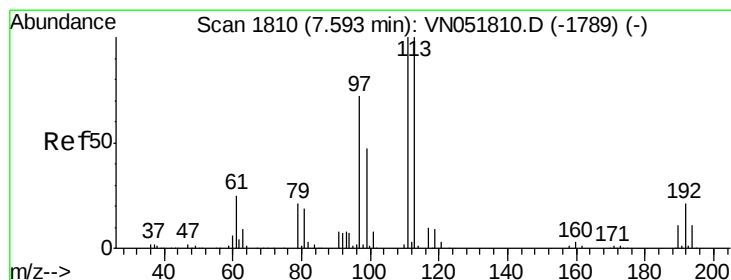
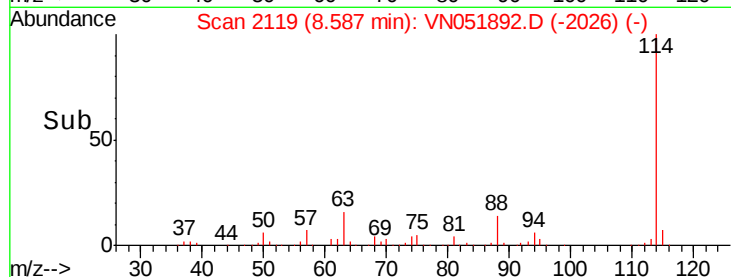
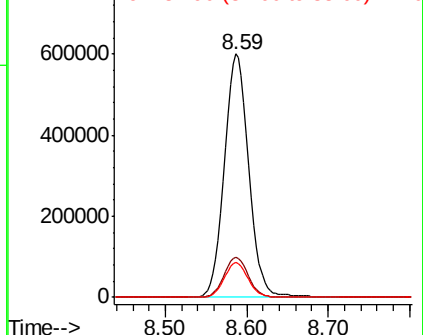
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN051892.D
 Acq: 16 Oct 2018 13:38

Instrument :
 MSVOA_N
 ClientSampleId :
 MS-SOIL

Tgt Ion:114 Resp: 1271756
 Ion Ratio Lower Upper
 114 100
 63 16.5 0.0 38.6
 88 14.2 0.0 30.6

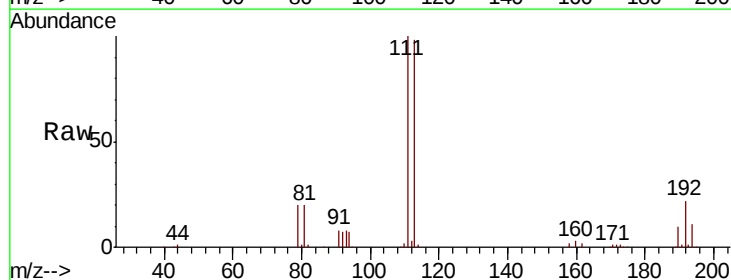


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

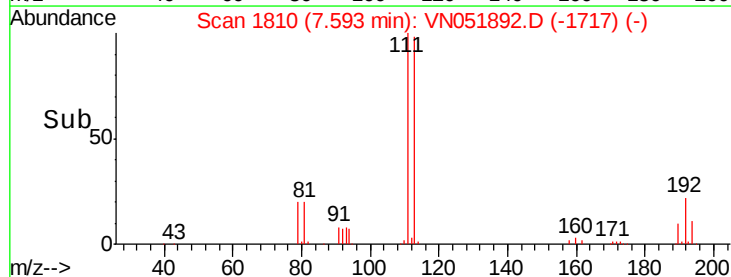
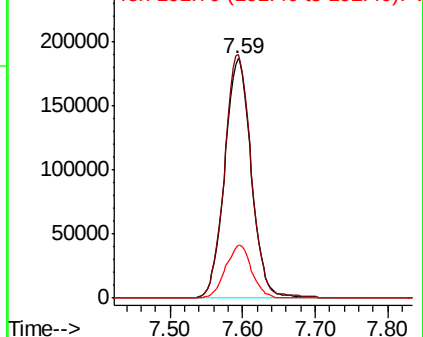


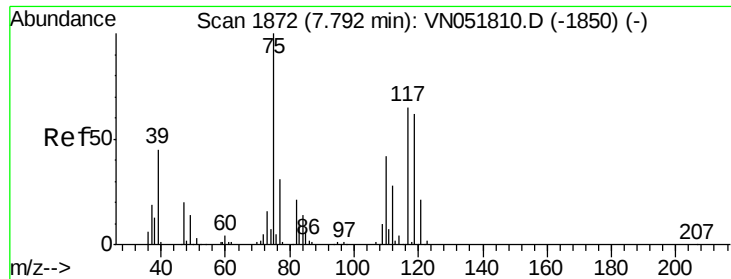
#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN051892.D
 Acq: 16 Oct 2018 13:38

Tgt Ion:113 Resp: 475949
 Ion Ratio Lower Upper
 113 100
 111 102.2 82.6 123.8
 192 21.9 18.0 27.0



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

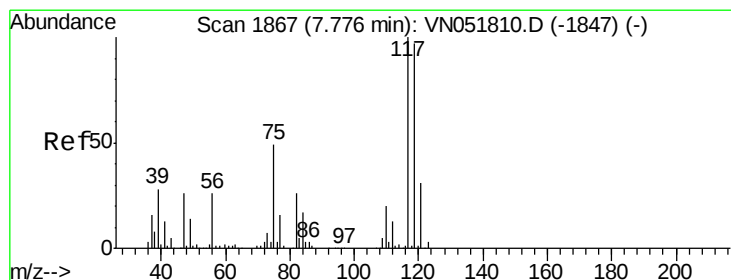
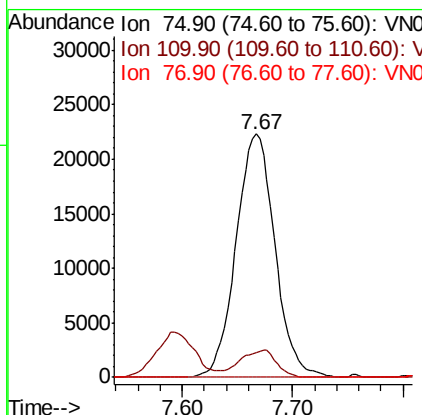
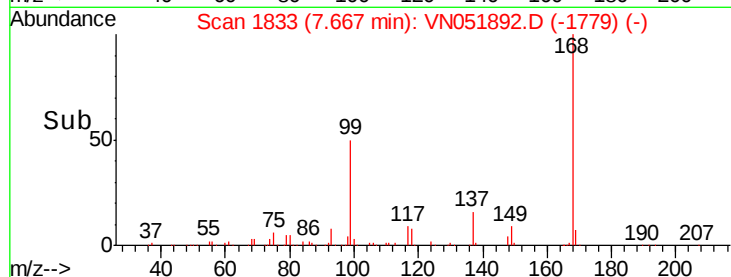
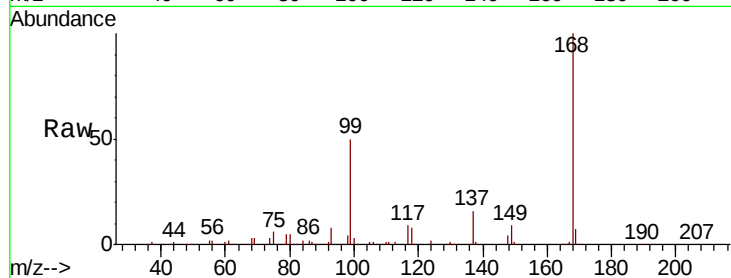




#36
 1,1-Dichloropropene
 Concen: 5.286 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.13 min
 Lab File: VN051892.D
 Acq: 16 Oct 2018 13:38

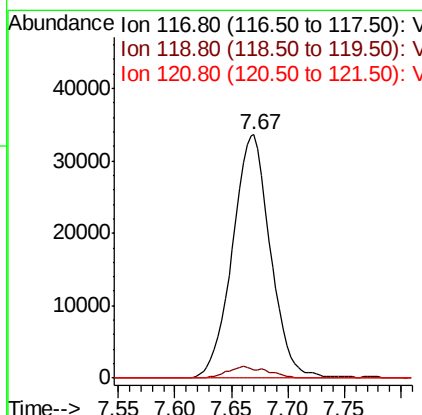
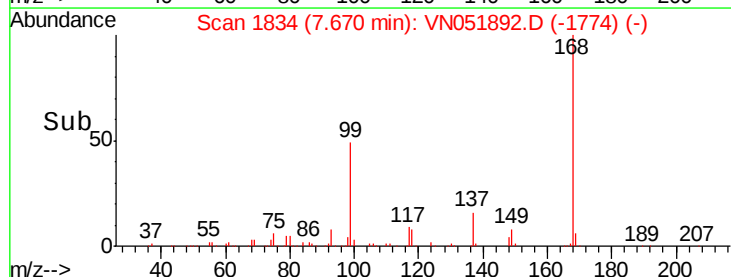
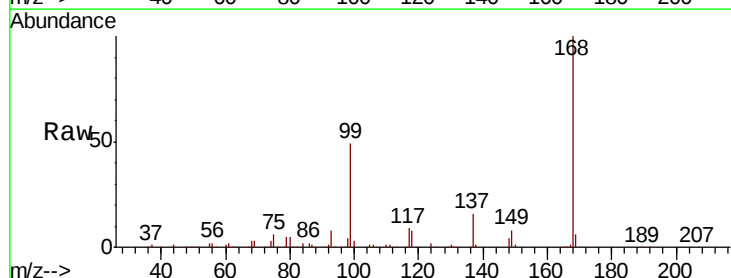
Instrument :
 MSVOA_N
 ClientSampleId :
 MS-SOIL

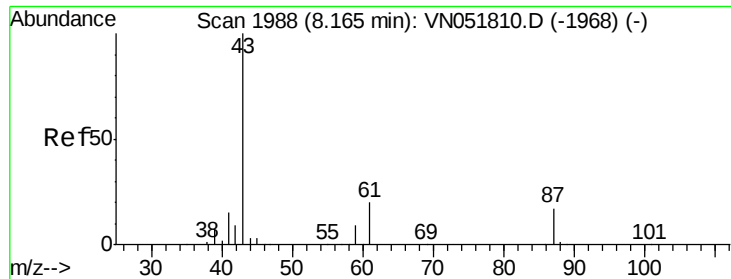
Tgt Ion: 75 Resp: 54423
 Ion Ratio Lower Upper
 75 100
 110 10.6 18.1 54.4#
 77 0.0 24.8 37.2#



#38
 Carbon Tetrachloride
 Concen: 6.562 ug/l
 RT: 7.67 min Scan# 1834
 Delta R.T. -0.11 min
 Lab File: VN051892.D
 Acq: 16 Oct 2018 13:38

Tgt Ion: 117 Resp: 78318
 Ion Ratio Lower Upper
 117 100
 119 3.5 76.3 114.5#
 121 0.0 24.6 36.8#





#43

Isopropyl Acetate

Concen: 25.122 ug/l

RT: 8.17 min Scan# 1989

Delta R.T. 0.00 min

Lab File: VN051892.D

Acq: 16 Oct 2018 13:38

Instrument :

MSVOA_N

ClientSampled :

MS-SOIL

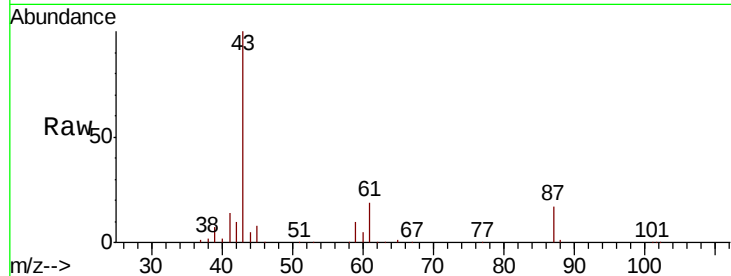
Tgt Ion: 43 Resp: 267878

Ion Ratio Lower Upper

43 100

61 18.9 17.5 26.3

87 14.4 11.3 16.9



Abundance Ion 43.00 (42.70 to 43.70): VN051810.D (-1968) (-)

Ion 61.00 (60.70 to 61.70): VN051810.D (-1968) (-)

Ion 87.00 (86.70 to 87.70): VN051810.D (-1968) (-)

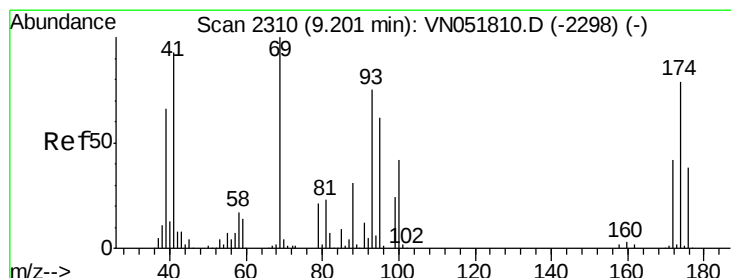
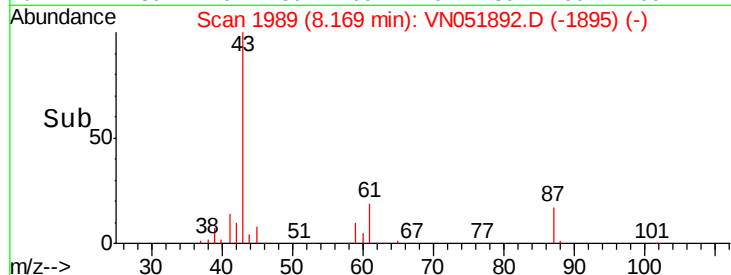
8.17

100000

50000

0

Time-->



#48

Methyl methacrylate

Concen: 1.297 ug/l

RT: 9.18 min Scan# 2304

Delta R.T. -0.02 min

Lab File: VN051892.D

Acq: 16 Oct 2018 13:38

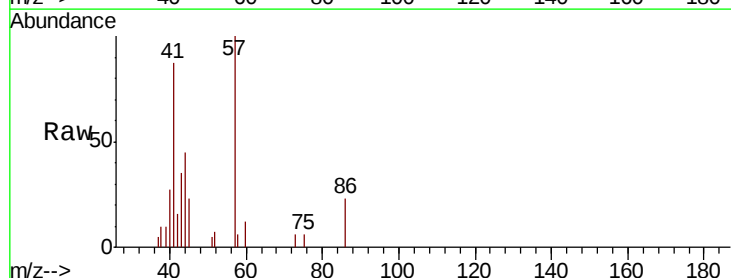
Tgt Ion: 41 Resp: 6107

Ion Ratio Lower Upper

41 100

69 0.0 74.7 112.1#

39 7.9 42.2 63.2#



Abundance Ion 41.00 (40.70 to 41.70): VN051810.D (-2298) (-)

Ion 69.00 (68.70 to 69.70): VN051810.D (-2298) (-)

Ion 39.00 (38.70 to 39.70): VN051810.D (-2298) (-)

6000

5000

4000

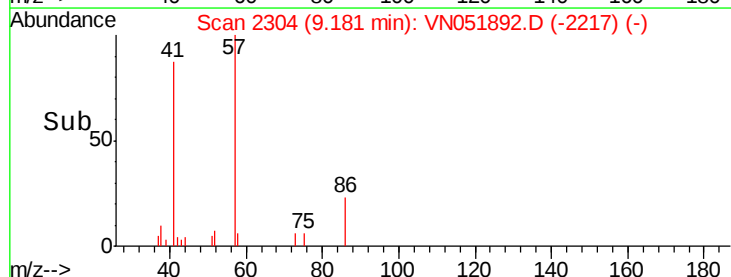
3000

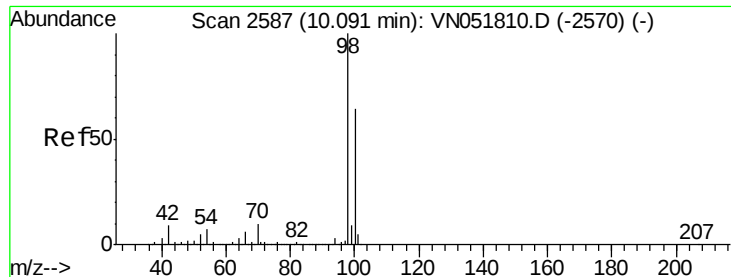
2000

1000

0

Time-->





#50

Toluene-d8

Concen: N.D. ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN051892.D

Acq: 16 Oct 2018 13:38

Instrument :

MSVOA_N

ClientSampled :

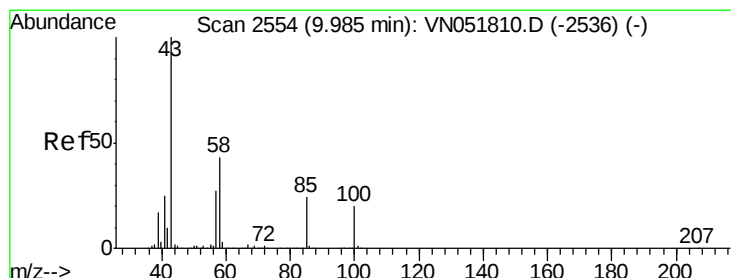
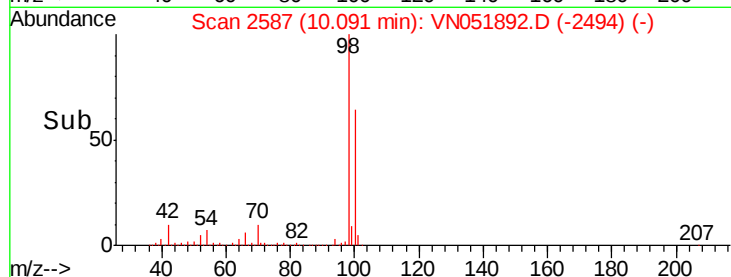
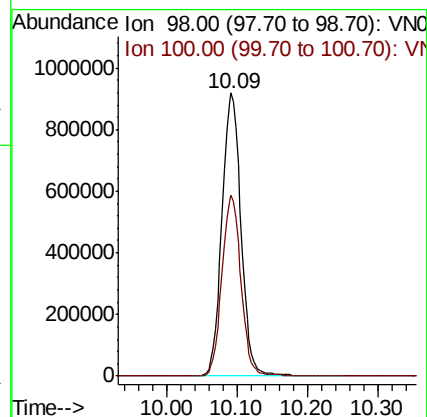
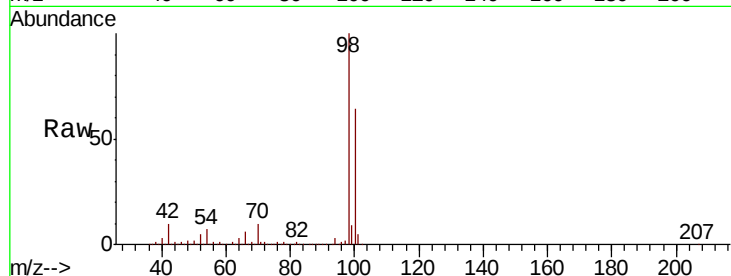
MS-SOIL

Tgt Ion: 98 Resp: 1729886

Ion Ratio Lower Upper

98 100

100 63.5 51.5 77.3



#51

4-Methyl-2-Pentanone

Concen: 0.280 ug/l

RT: 9.99 min Scan# 2555

Delta R.T. 0.00 min

Lab File: VN051892.D

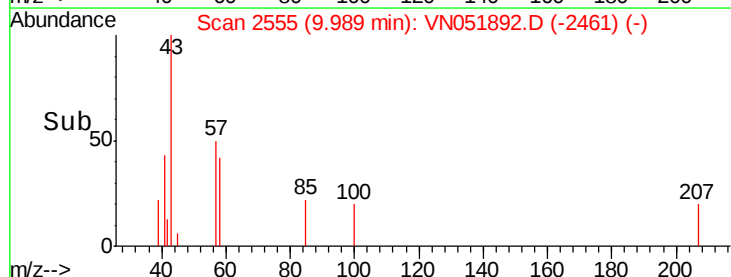
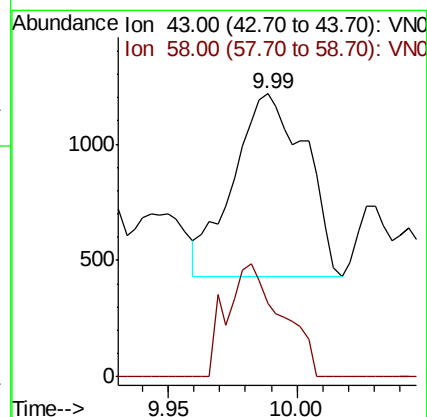
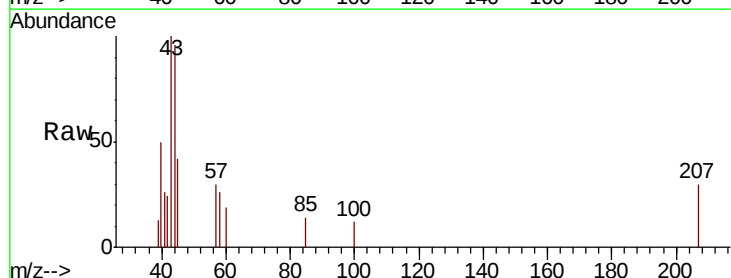
Acq: 16 Oct 2018 13:38

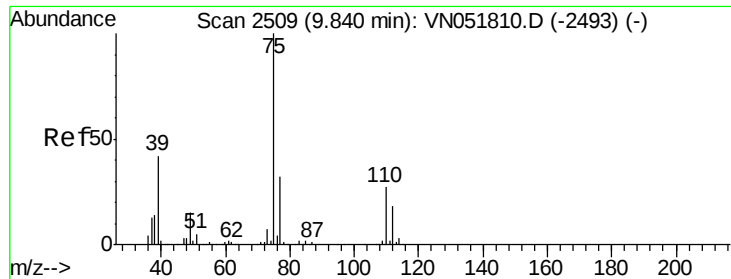
Tgt Ion: 43 Resp: 1535

Ion Ratio Lower Upper

43 100

58 46.8 32.4 48.6

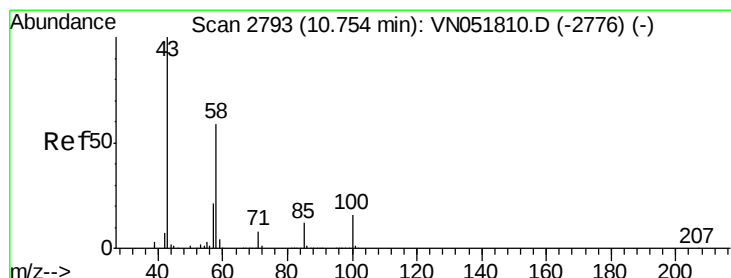
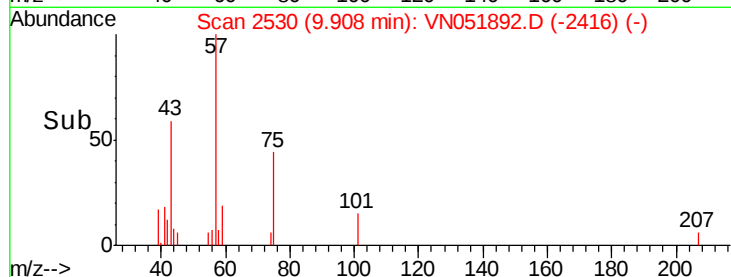
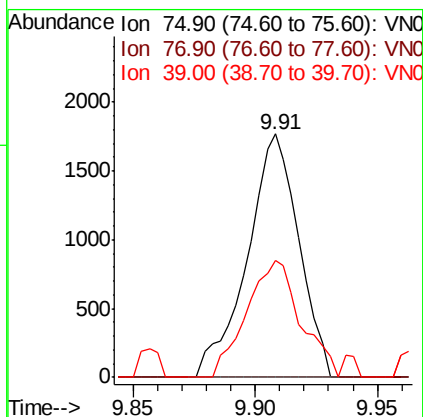
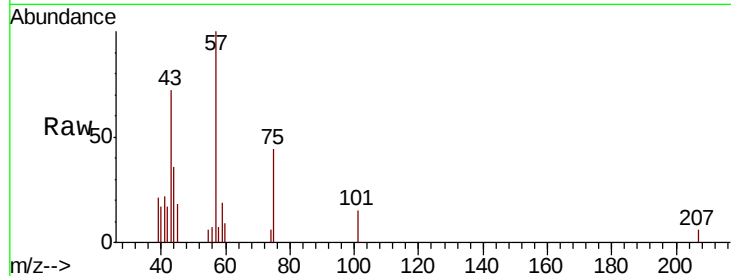




#54
 cis-1,3-Dichloropropene
 Concen: 0.219 ug/l
 RT: 9.91 min Scan# 2530
 Delta R.T. 0.07 min
 Lab File: VN051892.D
 Acq: 16 Oct 2018 13:38

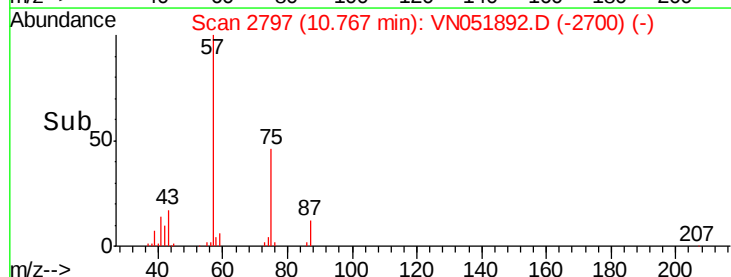
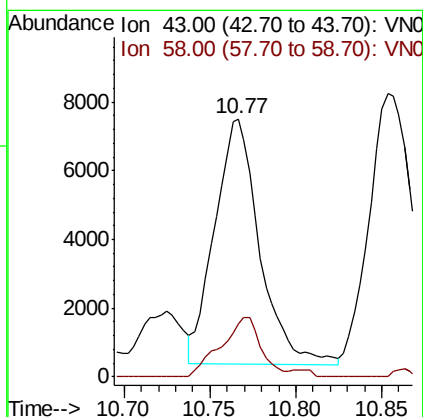
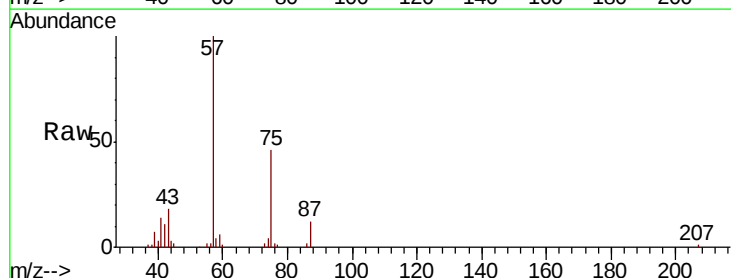
Instrument :
 MSVOA_N
 ClientSampled :
 MS-SOIL

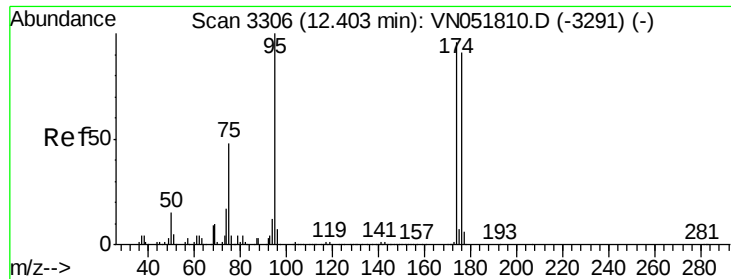
Tgt Ion: 75 Resp: 2585
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.4 38.2#
 39 48.1 33.0 49.4



#59
 2-Hexanone
 Concen: 3.376 ug/l
 RT: 10.77 min Scan# 2797
 Delta R.T. 0.01 min
 Lab File: VN051892.D
 Acq: 16 Oct 2018 13:38

Tgt Ion: 43 Resp: 13010
 Ion Ratio Lower Upper
 43 100
 58 21.8 28.3 85.0#





#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN051892.D

Acq: 16 Oct 2018 13:38

Instrument :

MSVOA_N

ClientSampleId :

MS-SOIL

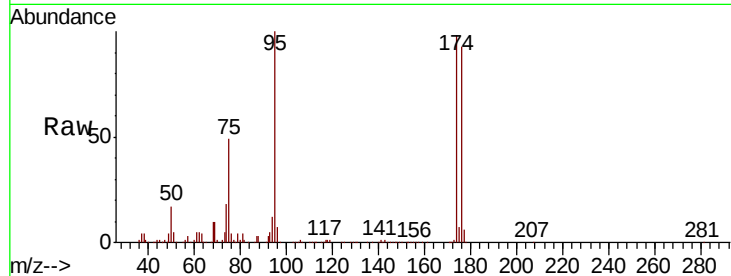
Tgt Ion: 95 Resp: 504964

Ion Ratio Lower Upper

95 100

174 97.1 0.0 183.0

176 92.7 0.0 178.8



Abundance Ion 94.90 (94.60 to 95.60): VN051810.D (-3291) (-)

Ion 173.80 (173.50 to 174.50): VN051810.D (-3291) (-)

Ion 175.80 (175.50 to 176.50): VN051810.D (-3291) (-)

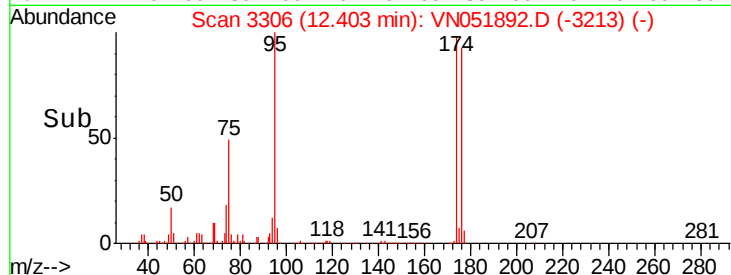
300000

200000

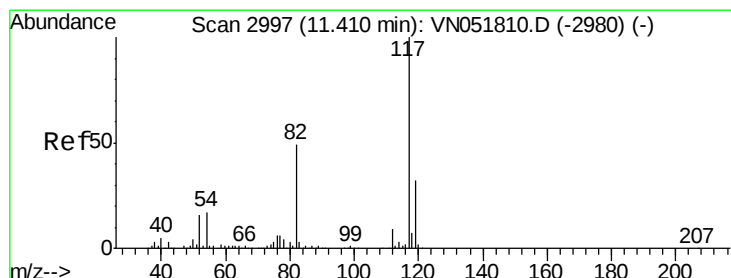
100000

0

12.30 12.35 12.40 12.45



Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. -0.00 min

Lab File: VN051892.D

Acq: 16 Oct 2018 13:38

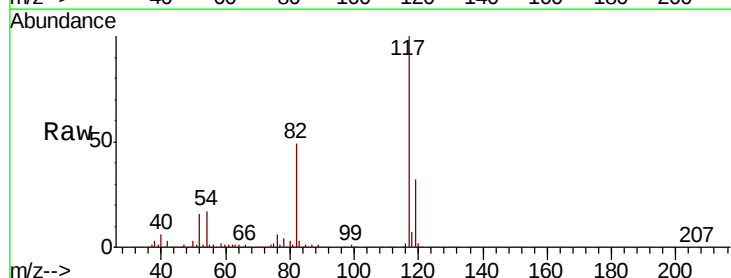
Tgt Ion: 117 Resp: 1111663

Ion Ratio Lower Upper

117 100

82 49.2 42.6 64.0

119 32.3 25.8 38.6



Abundance Ion 116.90 (116.60 to 117.60): VN051810.D (-2980) (-)

Ion 82.00 (81.70 to 82.70): VN051810.D (-2980) (-)

Ion 118.90 (118.60 to 119.60): VN051810.D (-2980) (-)

800000

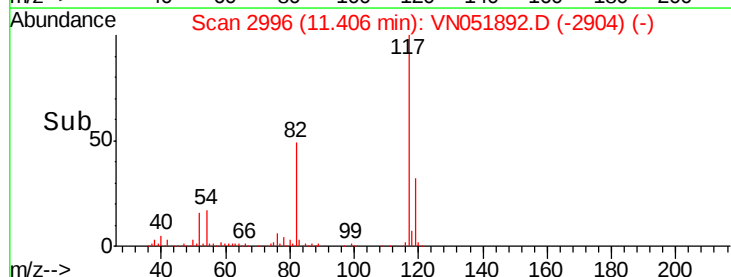
600000

400000

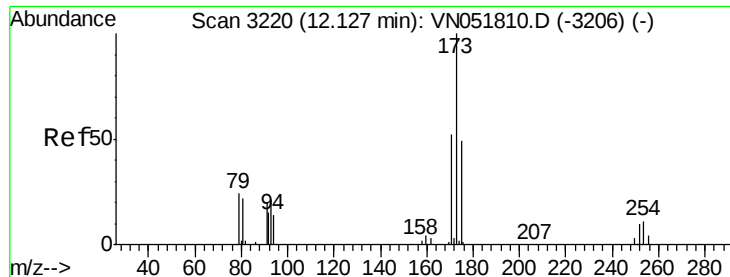
200000

0

11.30 11.40 11.50



Time-->



#71

Bromoform

Concen: 4.192 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.27 min

Lab File: VN051892.D

Acq: 16 Oct 2018 13:38

Instrument :

MSVOA_N

ClientSampled :

MS-SOIL

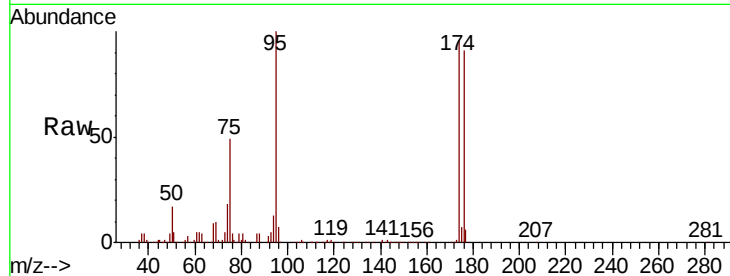
Tgt Ion:173 Resp: 4457

Ion Ratio Lower Upper

173 100

175 688.4 24.4 73.4#

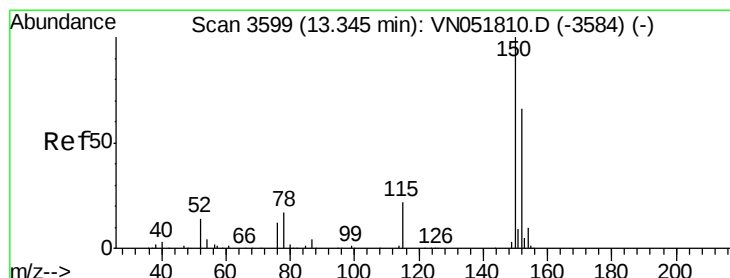
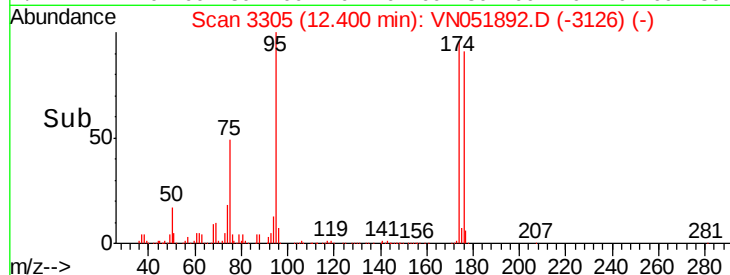
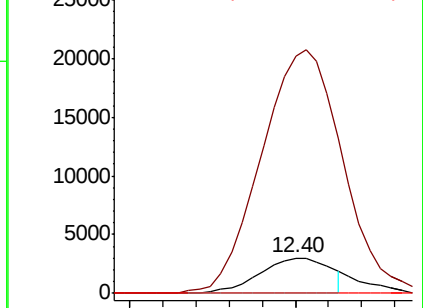
254 0.0 0.1 0.1#



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: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN051892.D

Acq: 16 Oct 2018 13:38

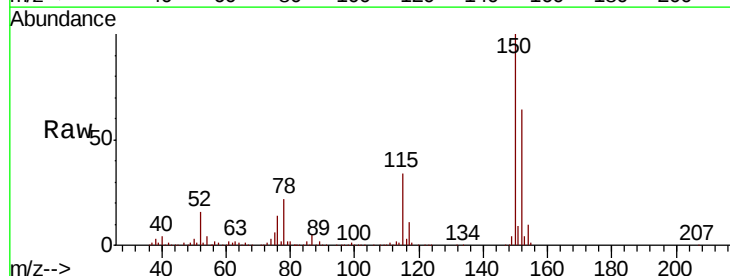
Tgt Ion:152 Resp: 425470

Ion Ratio Lower Upper

152 100

115 54.1 27.8 83.4

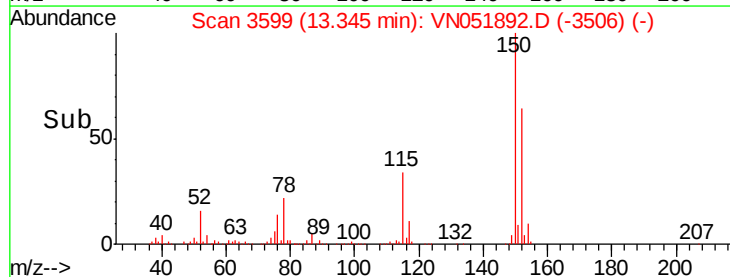
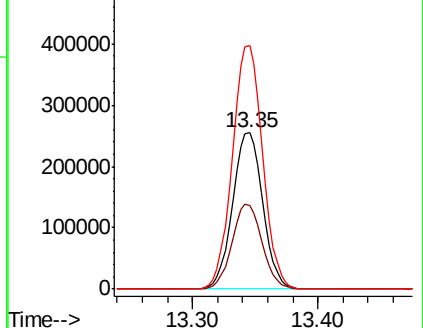
150 156.0 0.0 351.4

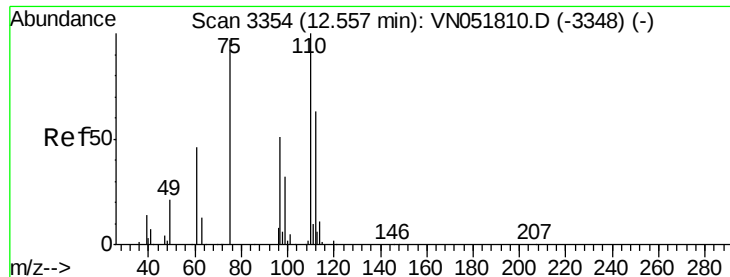


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 48.034 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.16 min

Lab File: VN051892.D

Acq: 16 Oct 2018 13:38

Instrument :

MSVOA_N

ClientSampleId :

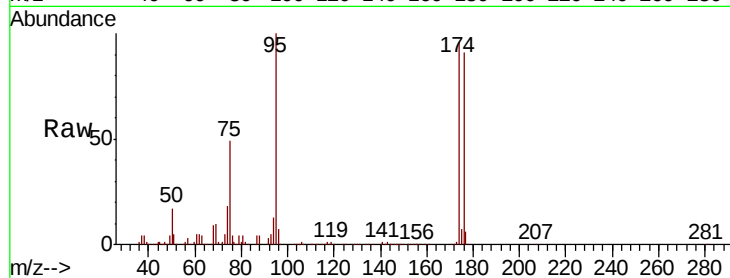
MS-SOIL

Tgt Ion: 75 Resp: 252240

Ion Ratio Lower Upper

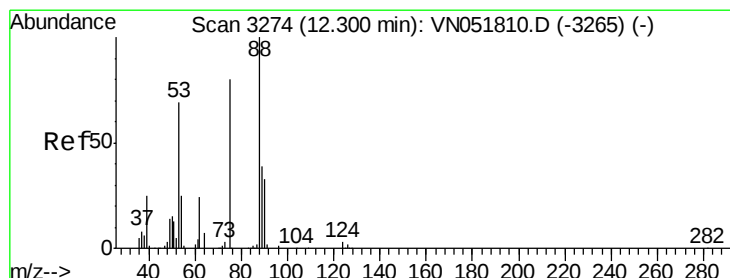
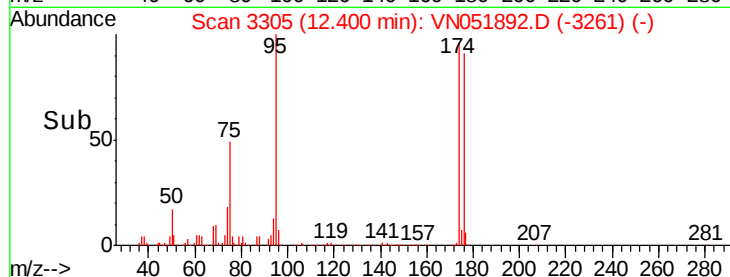
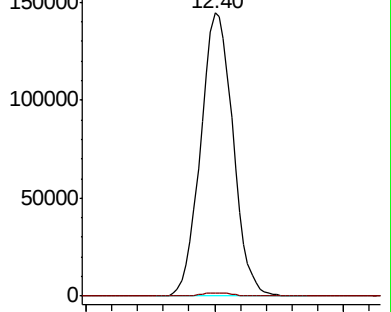
75 100

77 1.2 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: 136.521 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN051892.D

Acq: 16 Oct 2018 13:38

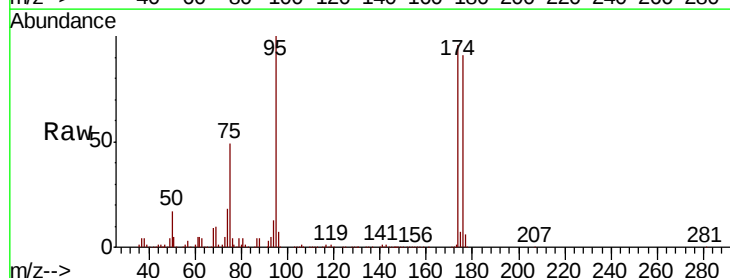
Tgt Ion: 75 Resp: 252240

Ion Ratio Lower Upper

75 100

53 0.0 68.9 103.3#

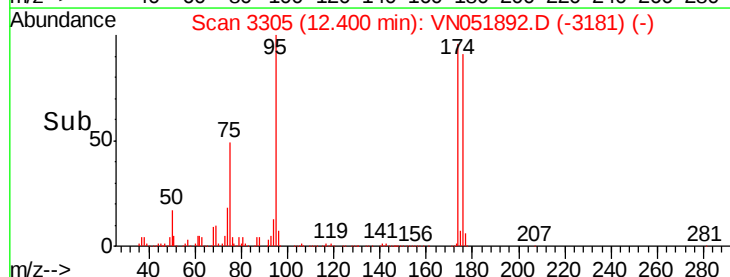
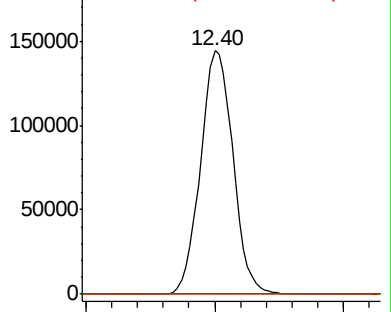
89 0.0 36.1 54.1#

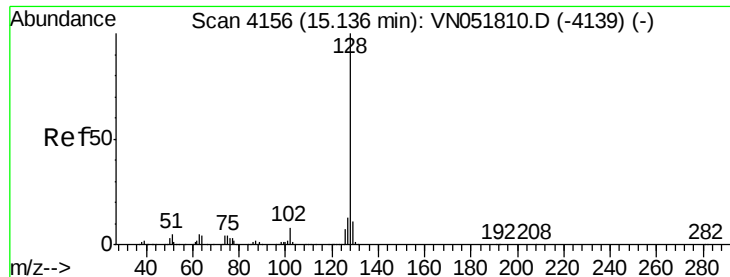


Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO

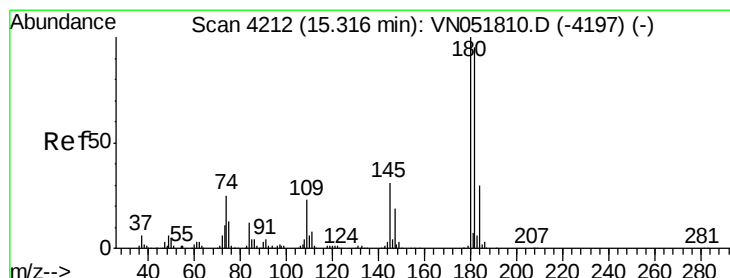
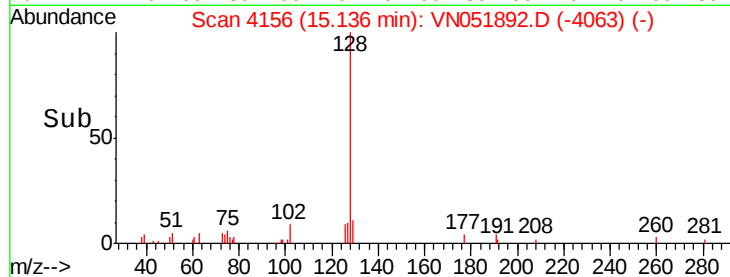
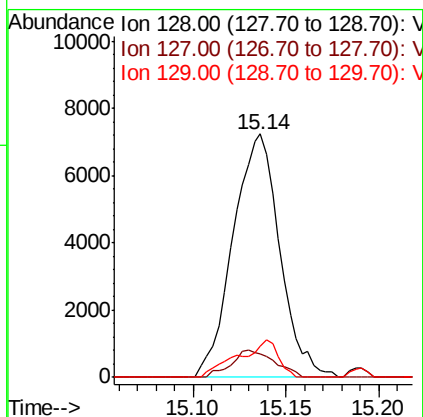
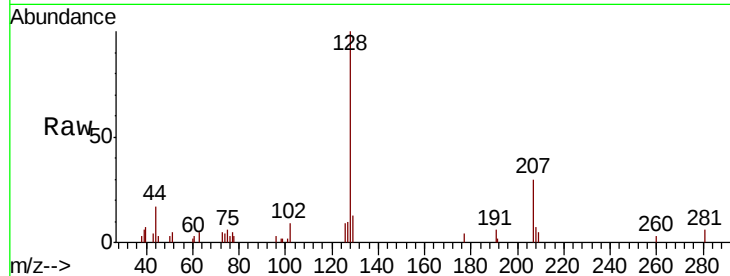




#95
Naphthalene
Concen: 5.132 ug/l
RT: 15.14 min Scan# 4156
Delta R.T. 0.00 min
Lab File: VN051892.D
Acq: 16 Oct 2018 13:38

Instrument :
MSVOA_N
ClientSampleId :
MS-SOIL

Tgt Ion	Ratio	Lower	Upper
128	100		
127	10.3	10.5	15.7#
129	13.1	8.7	13.1#



#96
1,2,3-Trichlorobenzene
Concen: 2.865 ug/l
RT: 15.32 min Scan# 4212
Delta R.T. 0.00 min
Lab File: VN051892.D
Acq: 16 Oct 2018 13:38

Tgt Ion	Ratio	Lower	Upper
180	100		
182	0.0	48.0	144.2#
145	0.0	15.2	45.6#

