

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN101218\
 Data File : VN051857.D
 Acq On : 13 Oct 2018 2:05
 Operator : MD\SY
 Sample : J5457-03
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 38 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 KG-SOIL

Quant Time: Oct 13 03:52:32 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	832829	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1207129	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1082722	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	435978	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	458124	57.55	ug/l	0.00
Spiked Amount	50.000		Recovery	=	115.10%	
35) Dibromofluoromethane	7.59	113	447014	59.55	ug/l	0.00
Spiked Amount	50.000		Recovery	=	119.10%	
50) Toluene-d8	10.09	98	1666734	59.59	ug/l	0.00
Spiked Amount	50.000		Recovery	=	119.18%	
62) 4-Bromofluorobenzene	12.40	95	501243	51.91	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.82%	

Target Compounds

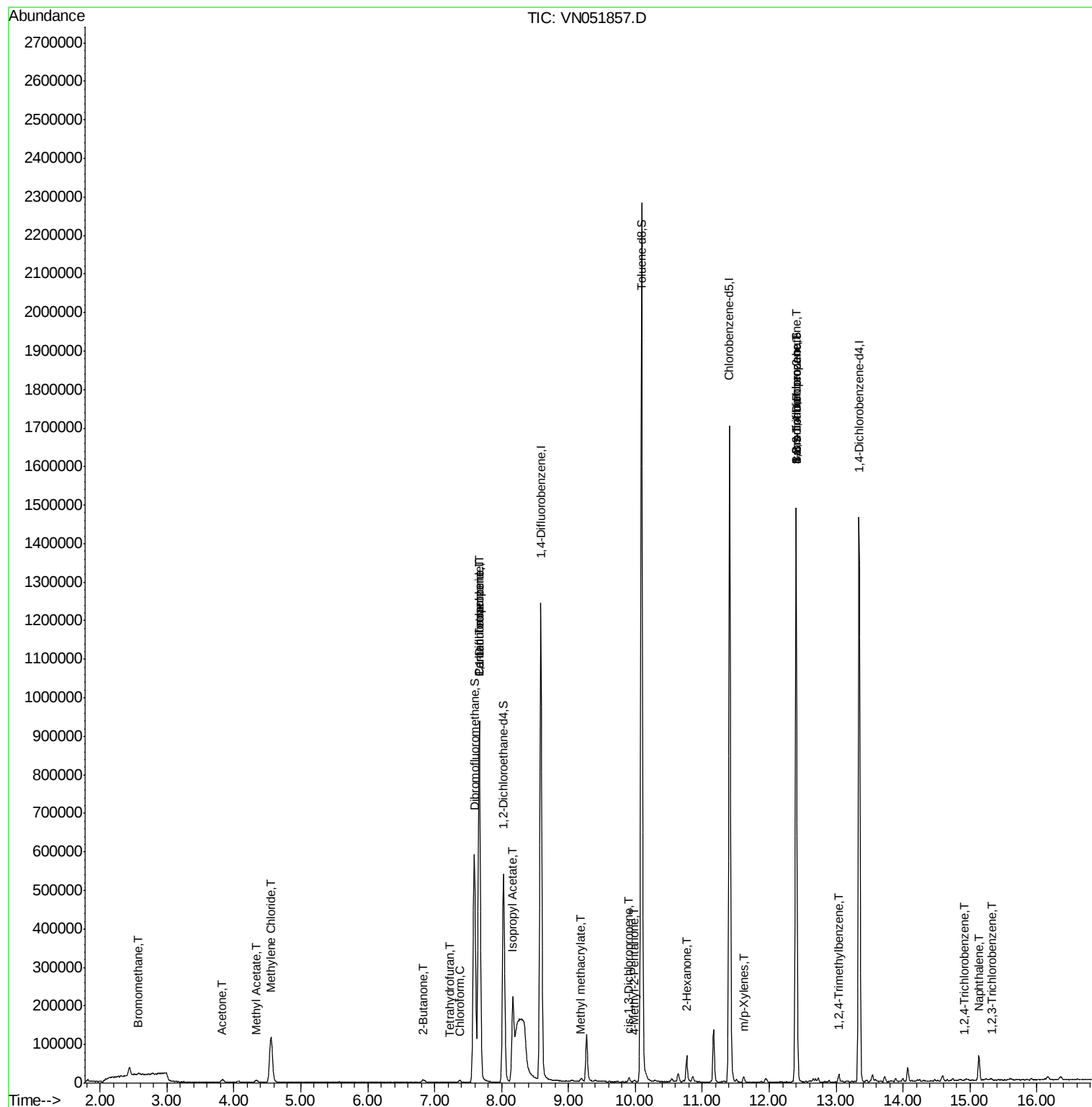
					Qvalue	
5) Bromomethane	2.57	94	2492	0.329	ug/l #	62
16) Acetone	3.83	43	13047	7.600	ug/l	96
18) Methyl Acetate	4.33	43	12016	1.617	ug/l #	70
20) Methylene Chloride	4.55	84	97162	13.676	ug/l	88
25) 2-Butanone	6.83	43	804	0.331	ug/l #	47
29) Tetrahydrofuran	7.23	42	613	0.424	ug/l #	73
30) Chloroform	7.37	83	5345	0.392	ug/l	85
31) Cyclohexane	7.67	56	13684	Below Cal	#	11
36) 1,1-Dichloropropene	7.67	75	51875	5.308	ug/l #	44
38) Carbon Tetrachloride	7.67	117	73372	6.477	ug/l #	16
43) Isopropyl Acetate	8.17	43	272582	26.974	ug/l #	94
48) Methyl methacrylate	9.18	41	4684	1.048	ug/l #	20
51) 4-Methyl-2-Pentanone	9.99	43	3069	0.589	ug/l #	86
54) cis-1,3-Dichloropropene	9.90	75	2389	0.214	ug/l #	68
59) 2-Hexanone	10.77	43	8558	2.339	ug/l #	57
68) m/p-Xylenes	11.62	106	4551	0.311	ug/l	89
71) Bromoform	12.40	173	3636	4.093	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	250105	46.465	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	250105	132.103	ug/l #	15
84) 1,2,4-Trimethylbenzene	13.04	105	12625	0.463	ug/l	95
93) 1,2,4-Trichlorobenzene	14.90	180	492	3.717	ug/l	82
95) Naphthalene	15.13	128	55990	7.576	ug/l	99
96) 1,2,3-Trichlorobenzene	15.33	180	64	2.865	ug/l #	35

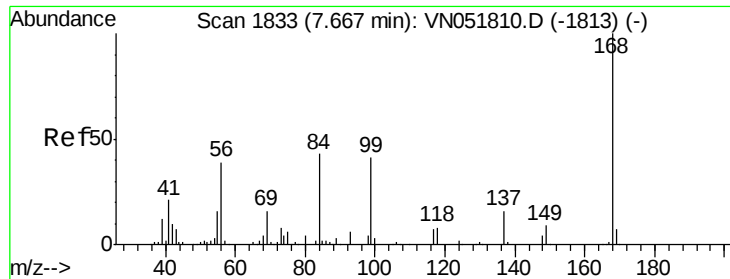
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N101118W.M
Quant Title : SW846 8260
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: VN051857.D

Acq: 13 Oct 2018 2:05

Instrument :

MSVOA_N

ClientSampleId :

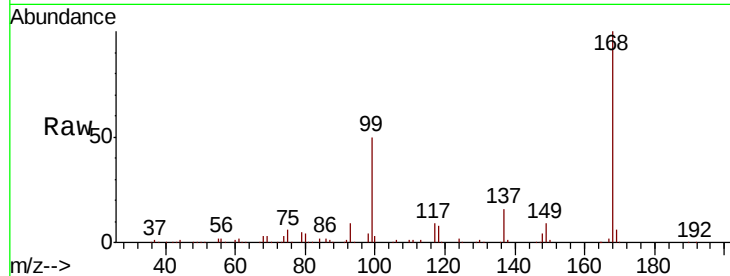
KG-SOIL

Tot Ion:168 Resp: 832829

Ion Ratio Lower Upper

168 100

99 50.4 39.6 59.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.67

400000

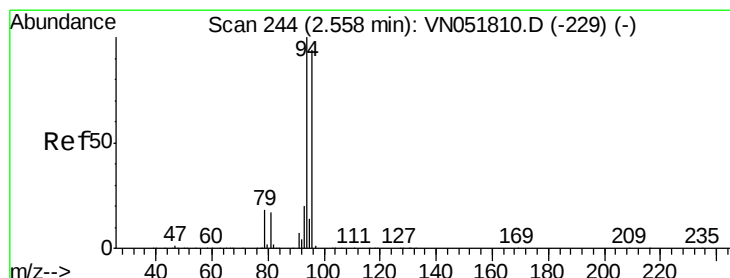
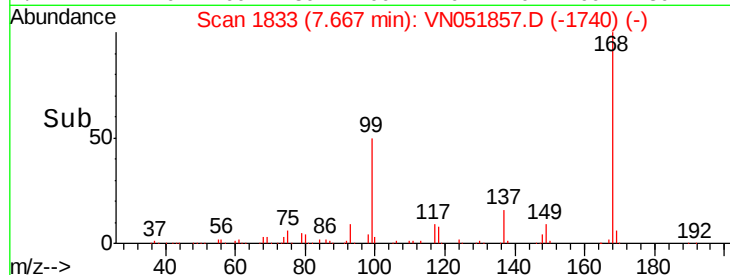
300000

200000

100000

0

Time-->



#5

Bromomethane

Concen: 0.329 ug/l

RT: 2.57 min Scan# 248

Delta R.T. 0.01 min

Lab File: VN051857.D

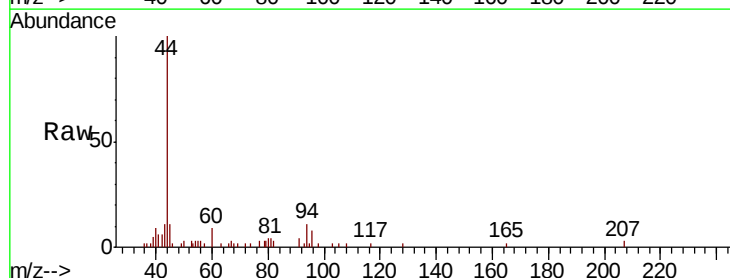
Acq: 13 Oct 2018 2:05

Tgt Ion: 94 Resp: 2492

Ion Ratio Lower Upper

94 100

96 58.5 76.2 114.2#



Abundance Ion 93.90 (93.60 to 94.60): VNO

Ion 95.90 (95.60 to 96.60): VNO

2.57

1200

1000

800

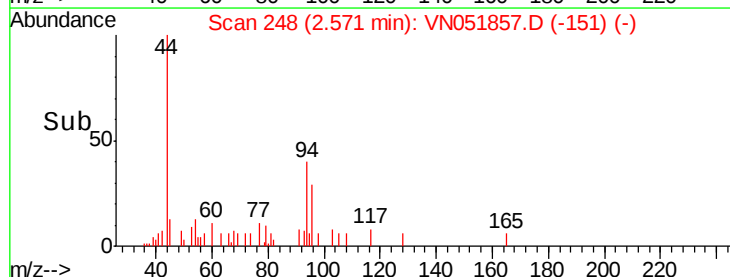
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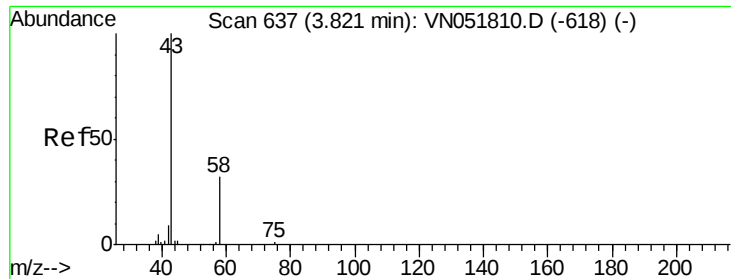
400

200

0

Time-->





#16

Acetone

Concen: 7.600 ug/l

RT: 3.83 min Scan# 639

Delta R.T. 0.01 min

Lab File: VN051857.D

Acq: 13 Oct 2018 2:05

Instrument :

MSVOA_N

ClientSampled :

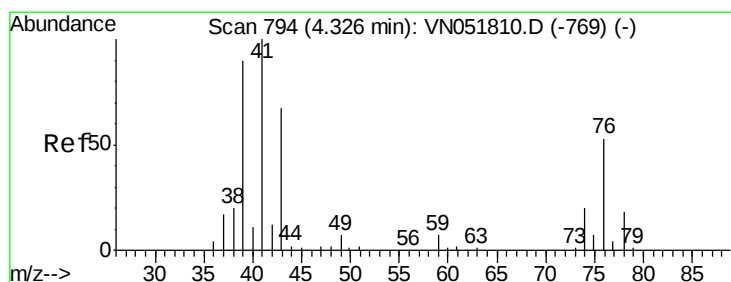
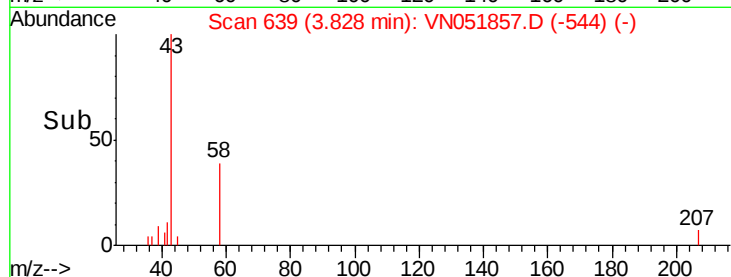
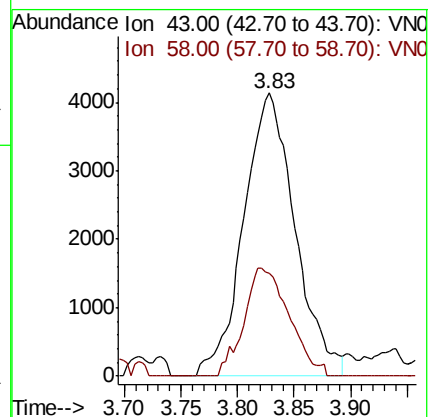
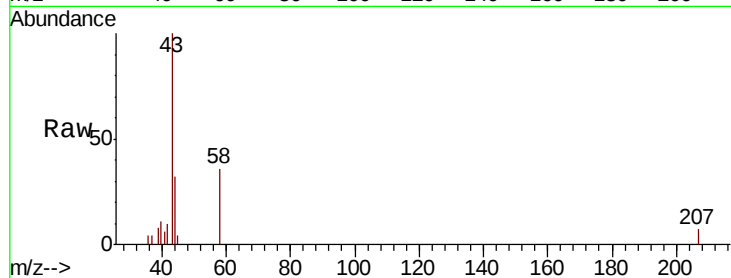
KG-SOIL

Tot Ion: 43 Resp: 13047

Ion Ratio Lower Upper

43 100

58 36.4 27.2 40.8



#18

Methyl Acetate

Concen: 1.617 ug/l

RT: 4.33 min Scan# 796

Delta R.T. 0.01 min

Lab File: VN051857.D

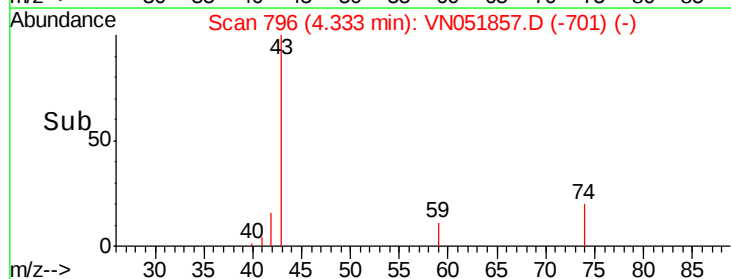
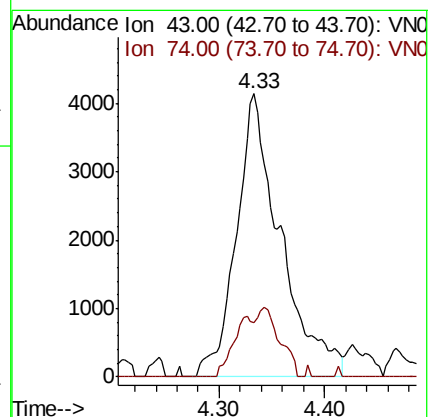
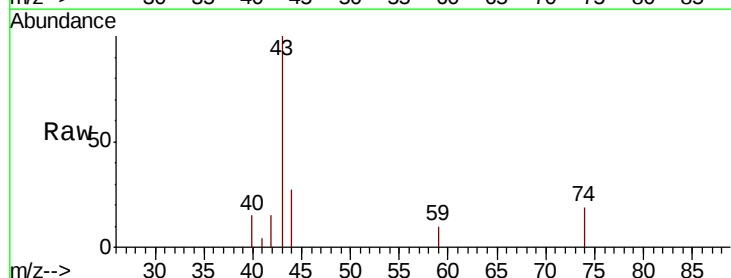
Acq: 13 Oct 2018 2:05

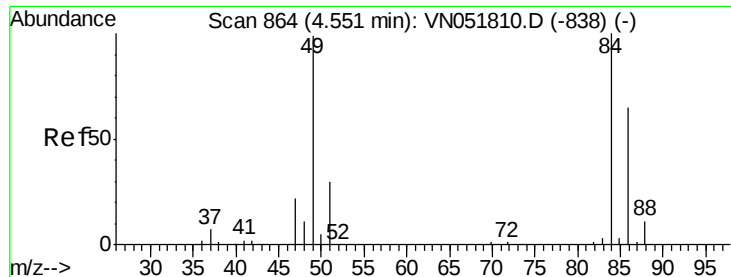
Tgt Ion: 43 Resp: 12016

Ion Ratio Lower Upper

43 100

74 9.9 19.8 29.8#

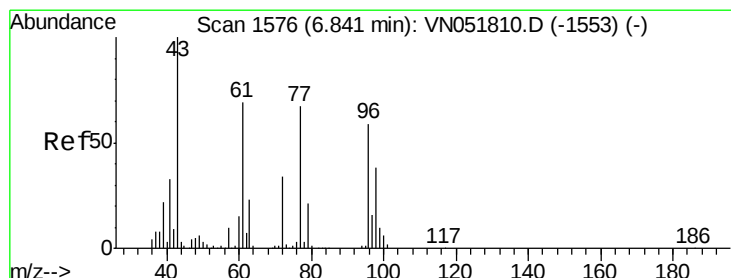
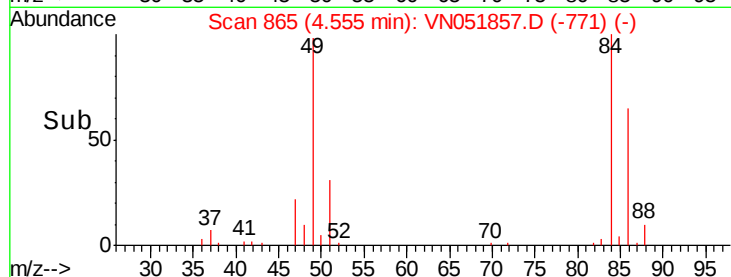
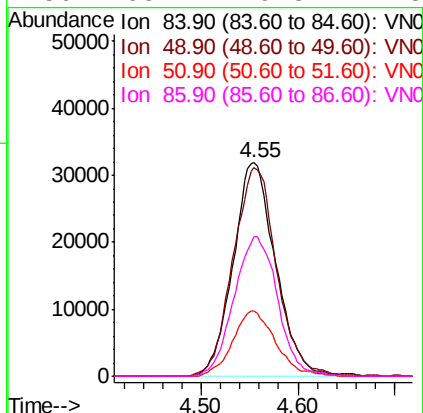
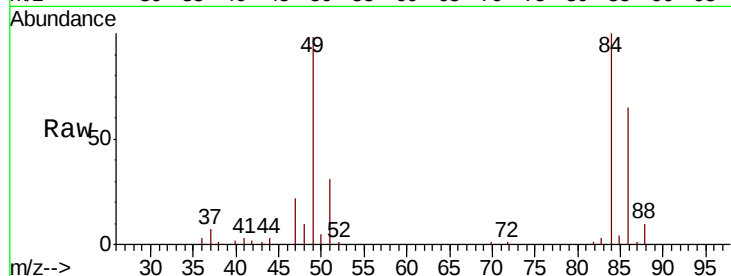




#20
Methvlene Chloride
Concen: 13.676 ug/l
RT: 4.55 min Scan# 865
Delta R.T. 0.00 min
Lab File: VN051857.D
Acq: 13 Oct 2018 2:05

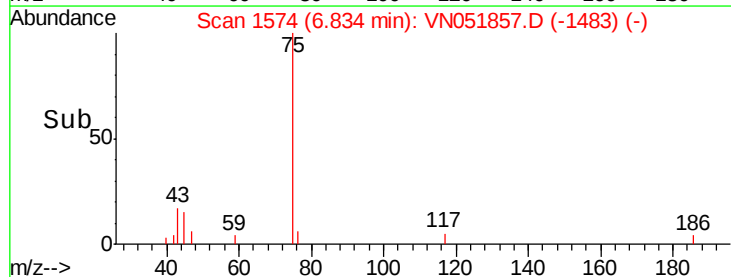
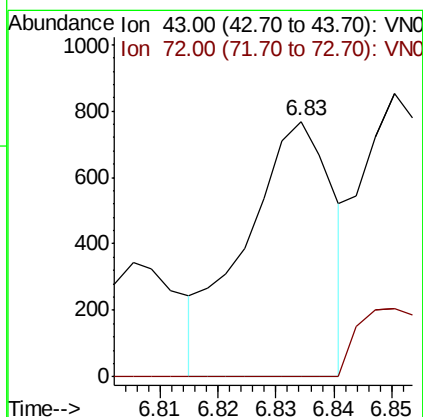
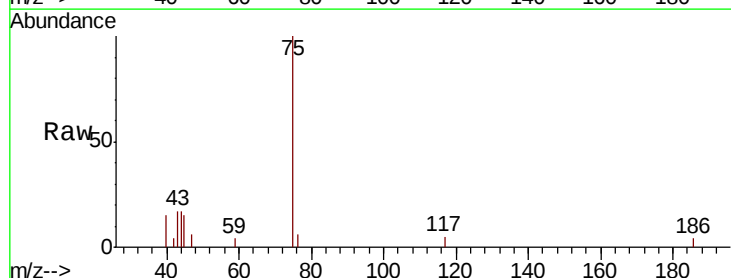
Instrument :
MSVOA_N
ClientSampleId :
KG-SOIL

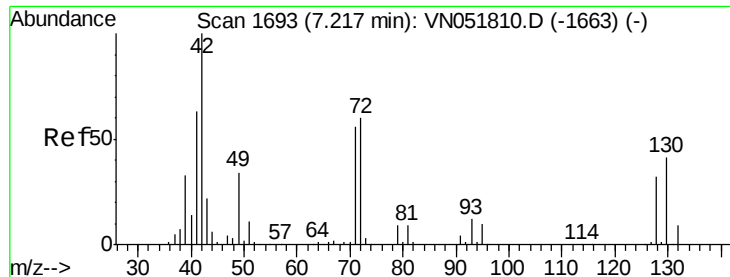
Tot Ion:	84	Resp:	97162
Ion	Ratio	Lower	Upper
84	100		
49	97.6	93.2	139.8
51	30.6	29.0	43.6
86	65.2	49.8	74.8



#25
2-Butanone
Concen: 0.331 ug/l
RT: 6.83 min Scan# 1574
Delta R.T. -0.01 min
Lab File: VN051857.D
Acq: 13 Oct 2018 2:05

Tgt Ion:	43	Resp:	804
Ion	Ratio	Lower	Upper
43	100		
72	0.0	22.3	33.5#

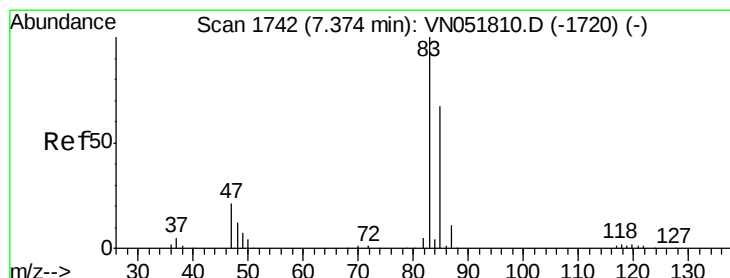
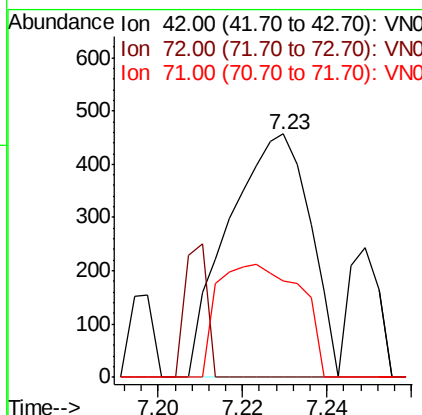
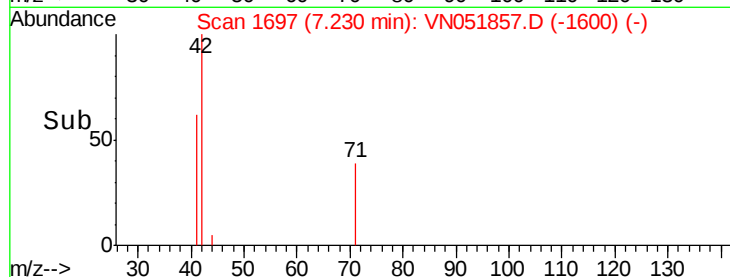
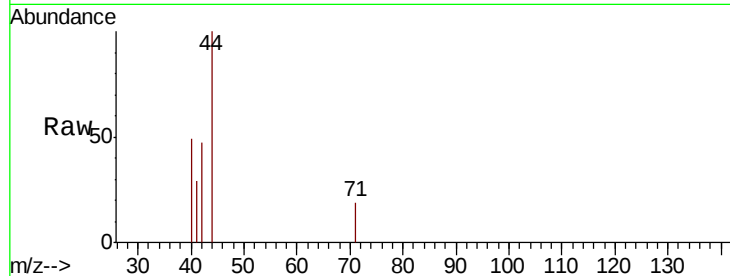




#29
Tetrahydrofuran
Concen: 0.424 ug/l
RT: 7.23 min Scan# 1697
Delta R.T. 0.01 min
Lab File: VN051857.D
Acq: 13 Oct 2018 2:05

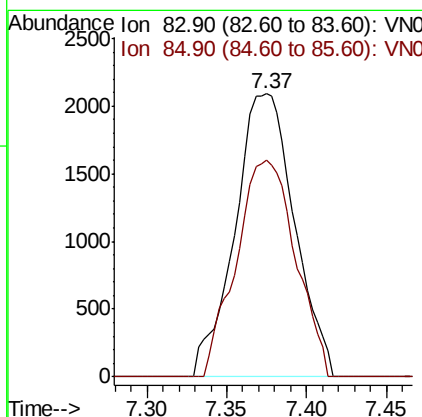
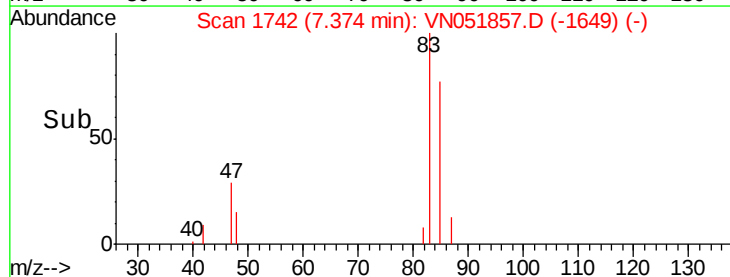
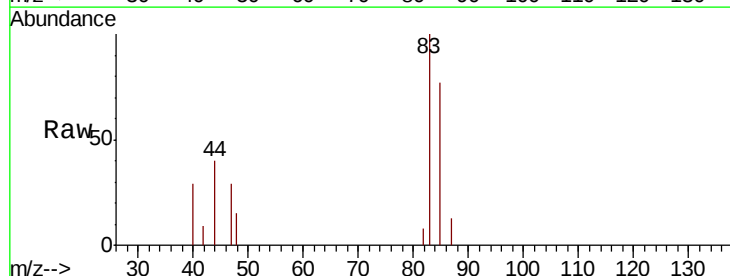
Instrument :
MSVOA_N
ClientSampled :
KG-SOIL

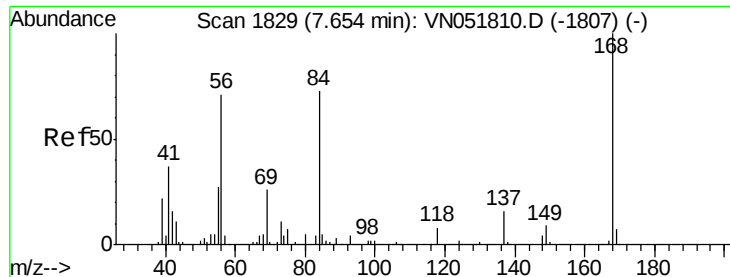
Tot Ion: 42 Resp: 613
Ion Ratio Lower Upper
42 100
72 15.2 35.5 53.3#
71 47.0 33.7 50.5



#30
Chloroform
Concen: 0.392 ug/l
RT: 7.37 min Scan# 1742
Delta R.T. 0.00 min
Lab File: VN051857.D
Acq: 13 Oct 2018 2:05

Tgt Ion: 83 Resp: 5345
Ion Ratio Lower Upper
83 100
85 76.8 52.2 78.4

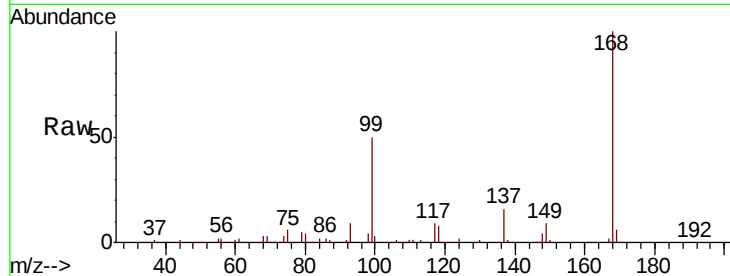




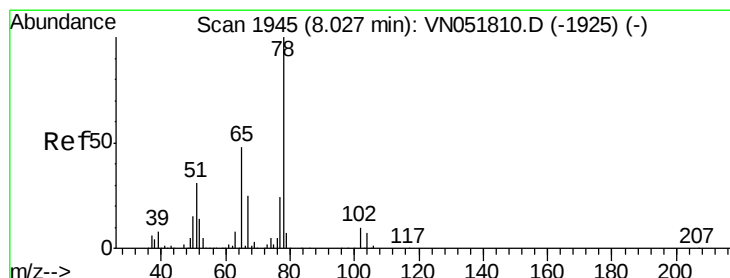
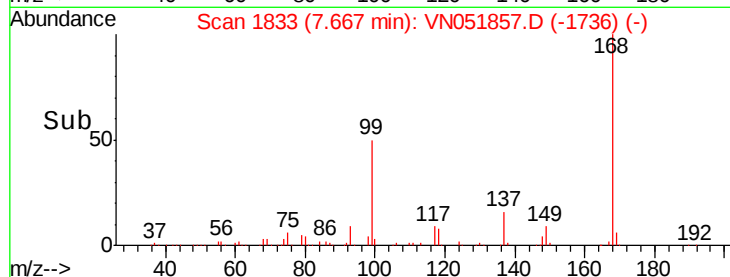
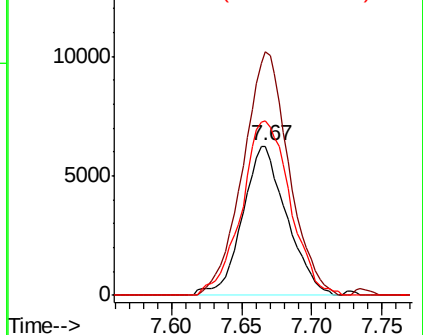
#31
Cyclohexane
Concen: Below Cal
RT: 7.67 min Scan# 1833
Delta R.T. 0.01 min
Lab File: VN051857.D
Acq: 13 Oct 2018 2:05

Instrument :
MSVOA_N
ClientSampled :
KG-SOIL

Tot Ion: 56 Resp: 13684
Ion Ratio Lower Upper
56 100
69 163.1 26.2 39.4#
84 117.3 68.3 102.5#

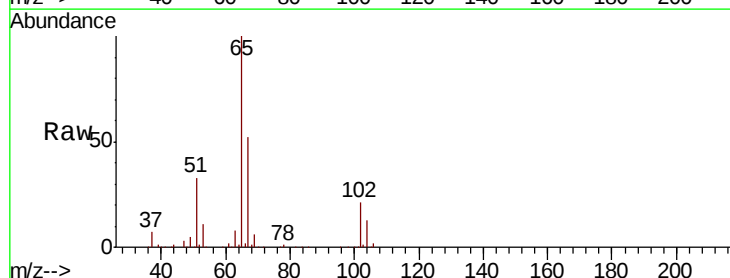


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

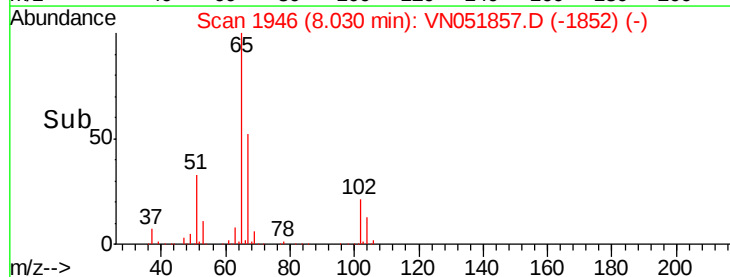
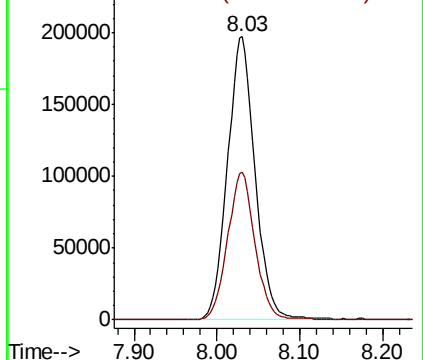


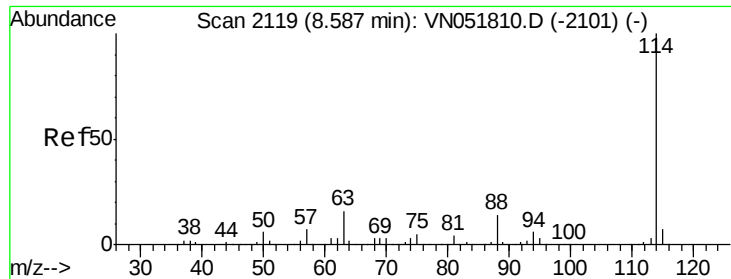
#33
1,2-Dichloroethane-d4
Concen: Below ug/l
RT: 8.03 min Scan# 1946
Delta R.T. 0.00 min
Lab File: VN051857.D
Acq: 13 Oct 2018 2:05

Tgt Ion: 65 Resp: 458124
Ion Ratio Lower Upper
65 100
67 51.7 0.0 110.4



Abundance Ion 64.90 (64.60 to 65.60): VN0
Ion 66.90 (66.60 to 67.60): VN0

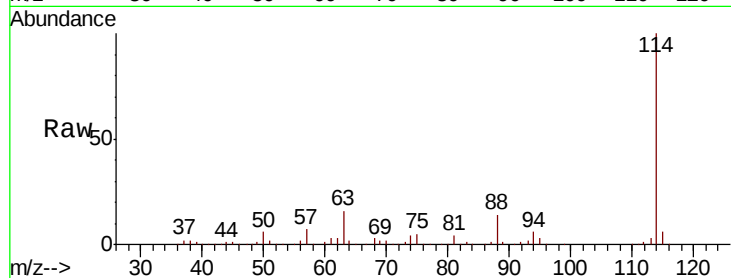




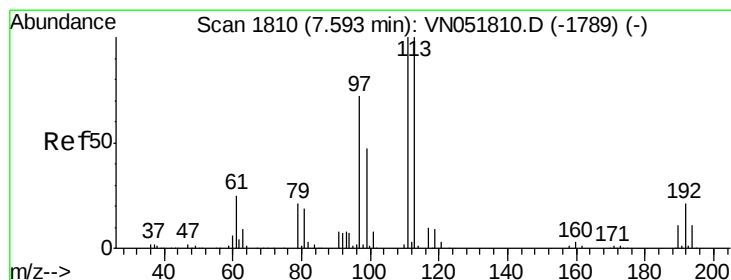
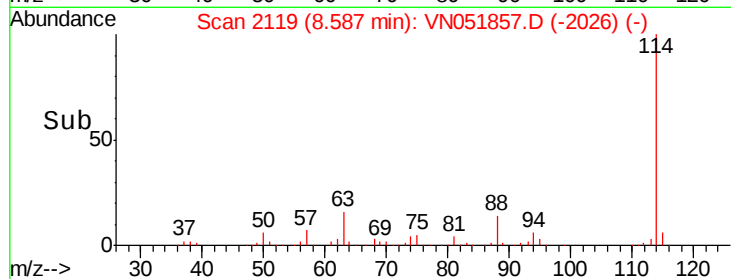
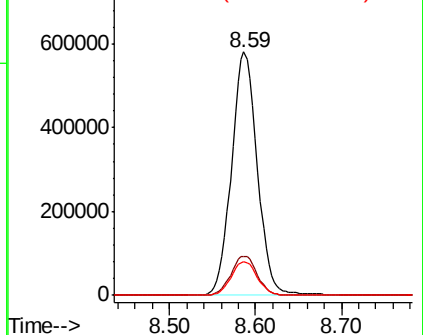
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN051857.D
 Acq: 13 Oct 2018 2:05

Instrument :
 MSVOA_N
 ClientSampleId :
 KG-SOIL

Tot Ion:114 Resp: 1207129
 Ion Ratio Lower Upper
 114 100
 63 16.2 0.0 38.6
 88 13.8 0.0 30.6

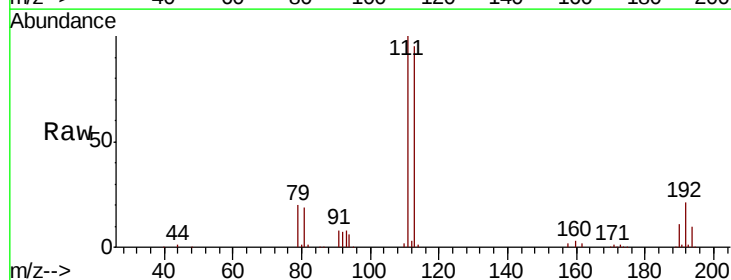


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

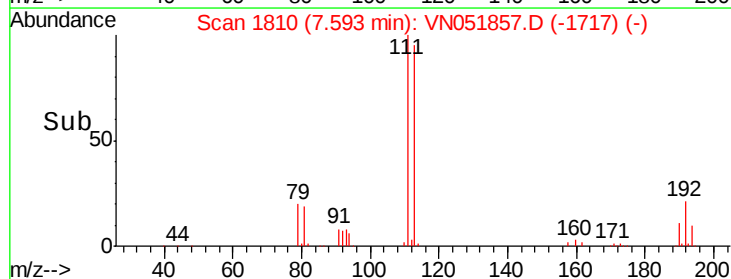
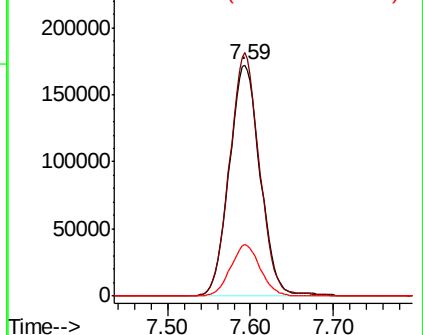


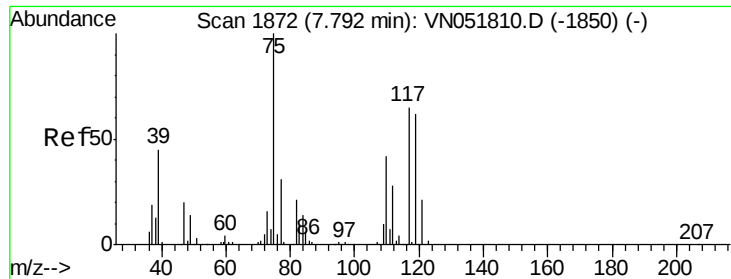
#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN051857.D
 Acq: 13 Oct 2018 2:05

Tgt Ion:113 Resp: 447014
 Ion Ratio Lower Upper
 113 100
 111 102.1 82.6 123.8
 192 21.5 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

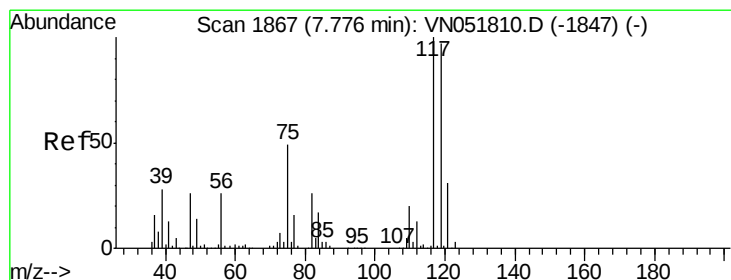
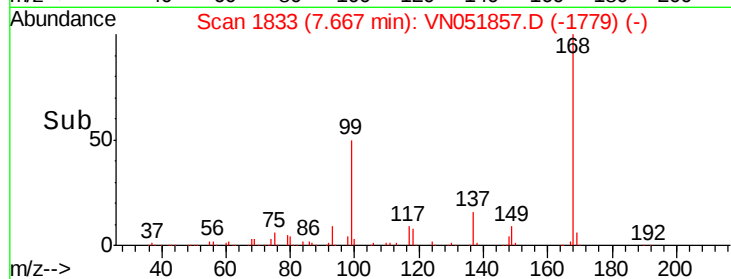
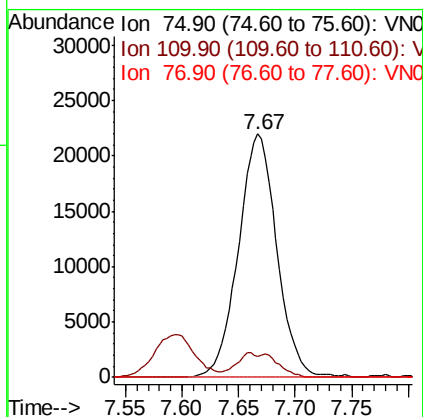
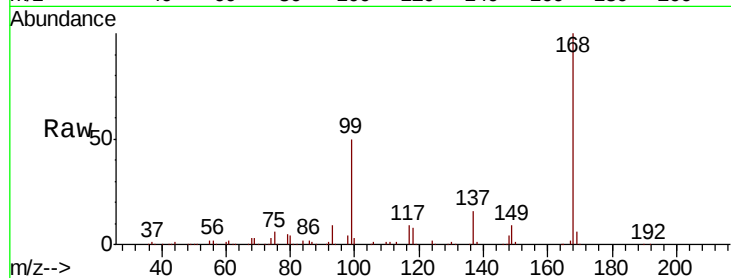




#36
 1,1-Dichloropropene
 Concen: 5.308 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.13 min
 Lab File: VN051857.D
 Acq: 13 Oct 2018 2:05

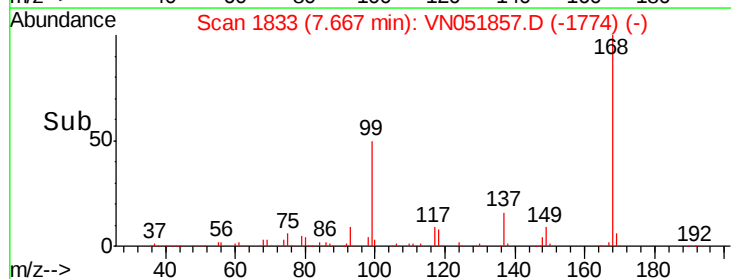
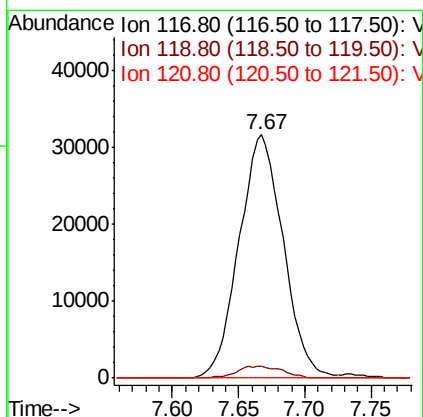
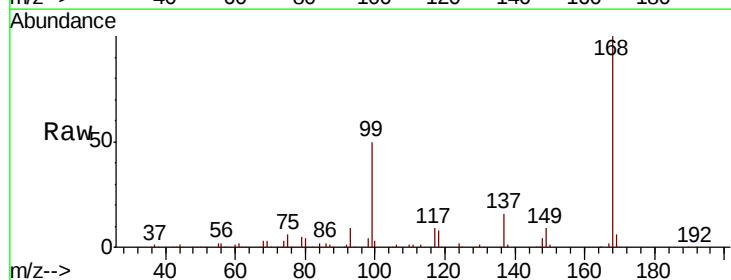
Instrument :
 MSVOA_N
 ClientSampleId :
 KG-SOIL

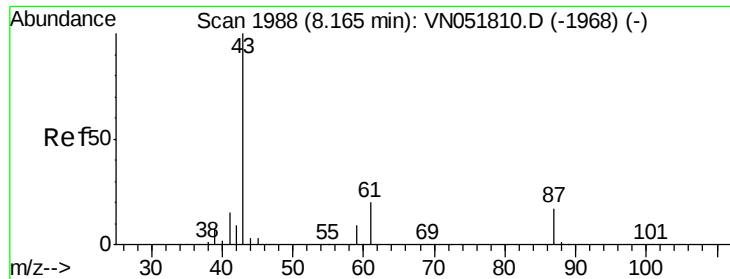
Tot Ion	Ratio	Lower	Upper
75	100		
110	3.8	18.1	54.4#
77	0.0	24.8	37.2#



#38
 Carbon Tetrachloride
 Concen: 6.477 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.11 min
 Lab File: VN051857.D
 Acq: 13 Oct 2018 2:05

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.1	76.3	114.5#
121	0.0	24.6	36.8#





#43

Isopropyl Acetate

Concen: 26.974 ug/l

RT: 8.17 min Scan# 1989

Delta R.T. 0.00 min

Lab File: VN051857.D

Acq: 13 Oct 2018 2:05

Instrument :

MSVOA_N

ClientSampled :

KG-SOIL

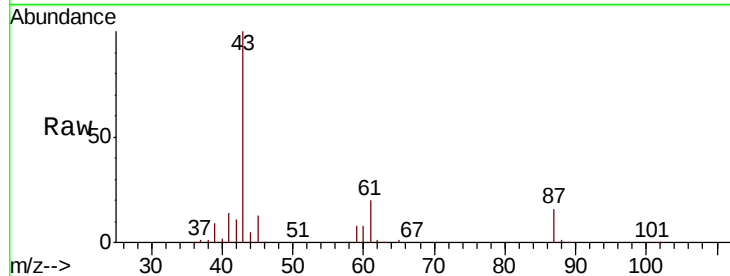
Tot Ion: 43 Resp: 272582

Ion Ratio Lower Upper

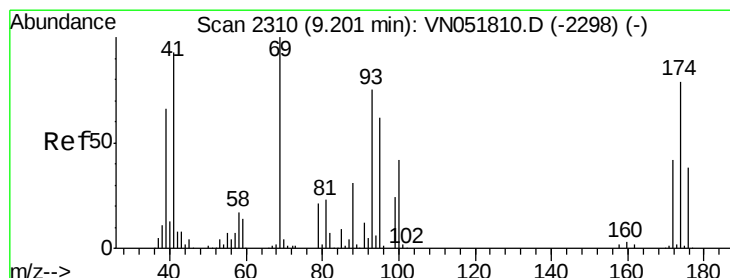
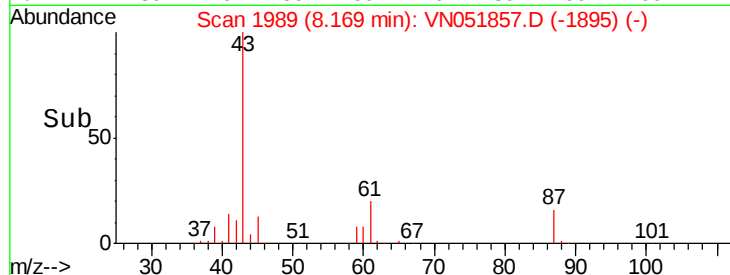
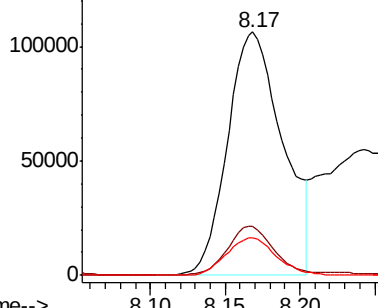
43 100

61 17.1 17.5 26.3#

87 13.9 11.3 16.9



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



#48

Methyl methacrylate

Concen: 1.048 ug/l

RT: 9.18 min Scan# 2304

Delta R.T. -0.02 min

Lab File: VN051857.D

Acq: 13 Oct 2018 2:05

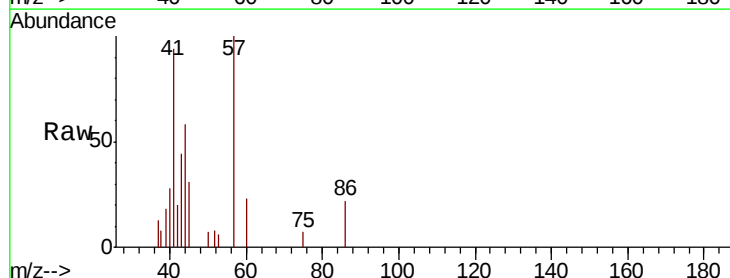
Tgt Ion: 41 Resp: 4684

Ion Ratio Lower Upper

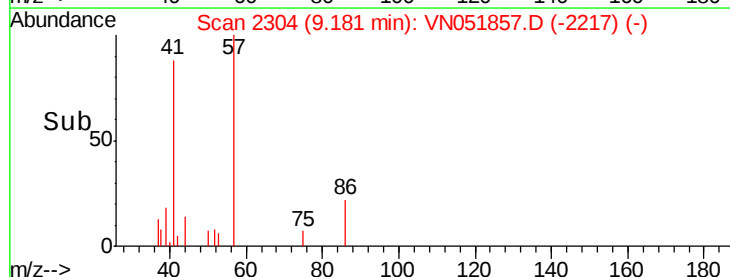
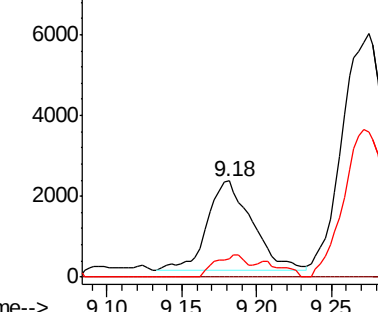
41 100

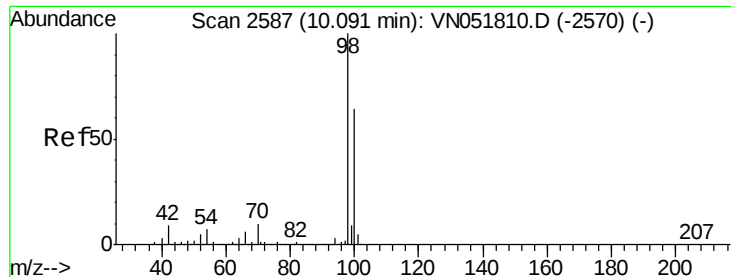
69 0.0 74.7 112.1#

39 17.6 42.2 63.2#



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

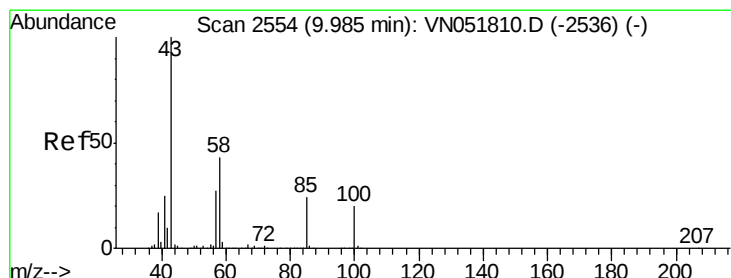
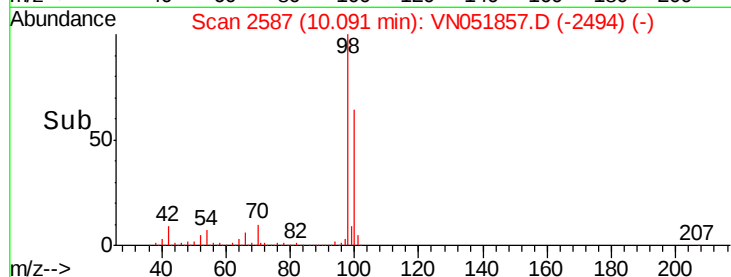
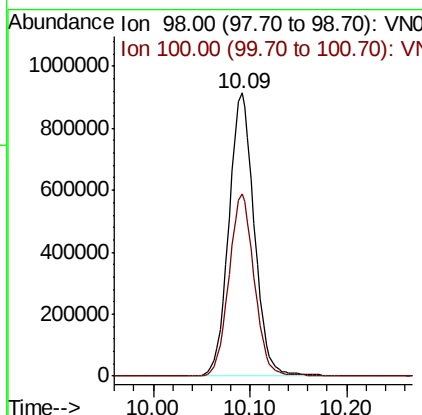
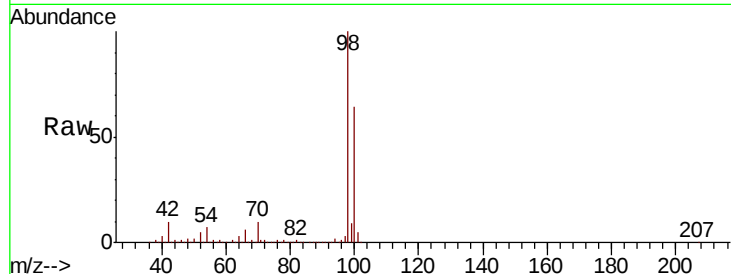




#50
Toluene-d8
Concen: N.D. ug/l
RT: 10.09 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN051857.D
Acq: 13 Oct 2018 2:05

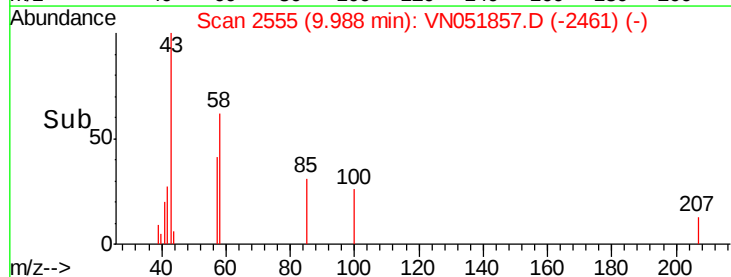
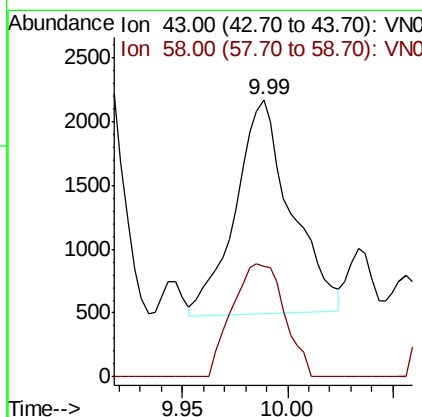
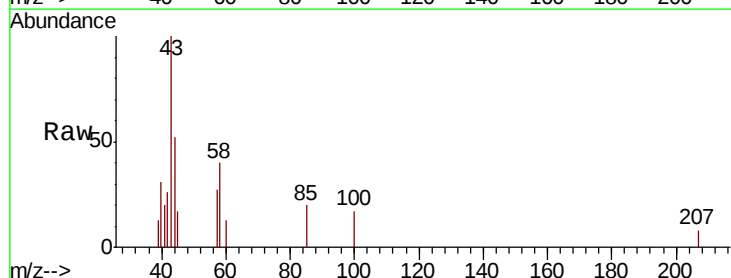
Instrument :
MSVOA_N
ClientSampled :
KG-SOIL

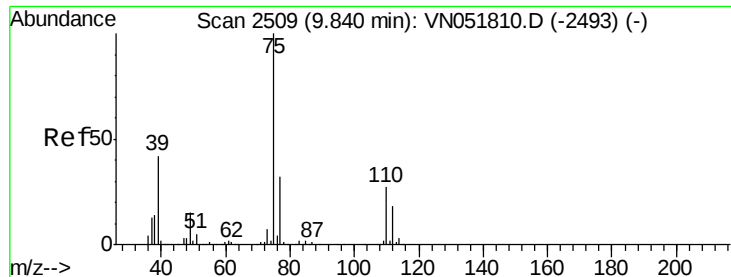
Tot Ion: 98 Resp: 1666734
Ion Ratio Lower Upper
98 100
100 64.4 51.5 77.3



#51
4-Methyl-2-Pentanone
Concen: 0.589 ug/l
RT: 9.99 min Scan# 2555
Delta R.T. 0.00 min
Lab File: VN051857.D
Acq: 13 Oct 2018 2:05

Tgt Ion: 43 Resp: 3069
Ion Ratio Lower Upper
43 100
58 49.5 32.4 48.6#





#54

cis-1,3-Dichloropropene

Concen: 0.214 ug/l

RT: 9.90 min Scan# 2529

Delta R.T. 0.06 min

Lab File: VN051857.D

Acq: 13 Oct 2018 2:05

Instrument :

MSVOA_N

ClientSampled :

KG-SOIL

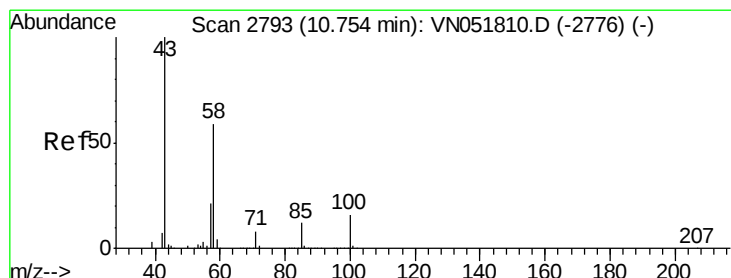
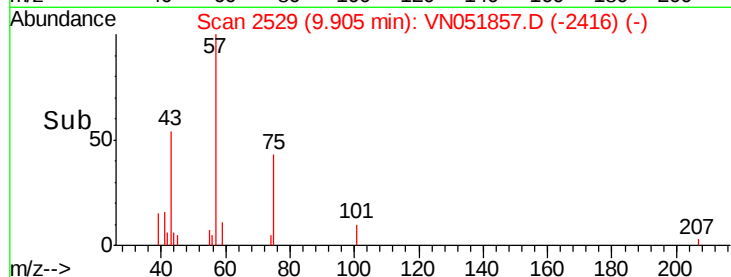
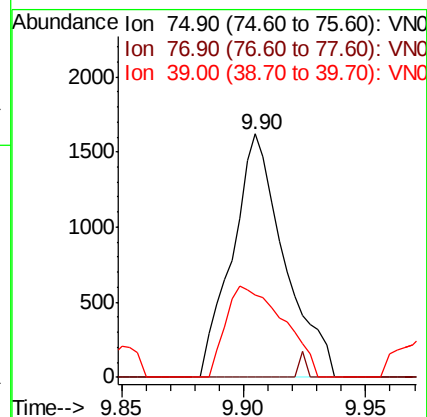
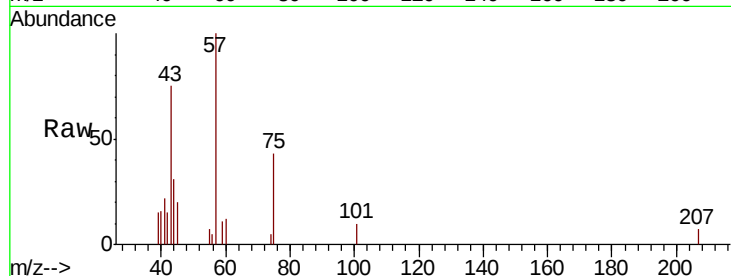
Tot Ion: 75 Resp: 2389

Ion Ratio Lower Upper

75 100

77 0.0 25.4 38.2#

39 33.6 33.0 49.4



#59

2-Hexanone

Concen: 2.339 ug/l

RT: 10.77 min Scan# 2797

Delta R.T. 0.01 min

Lab File: VN051857.D

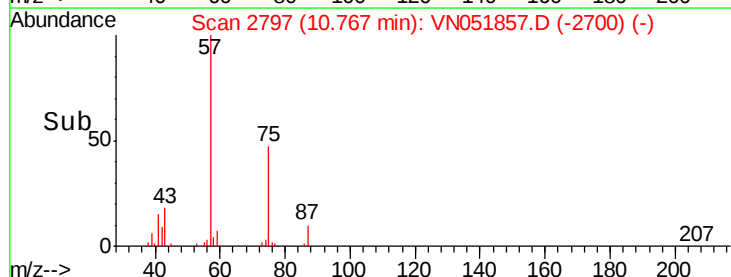
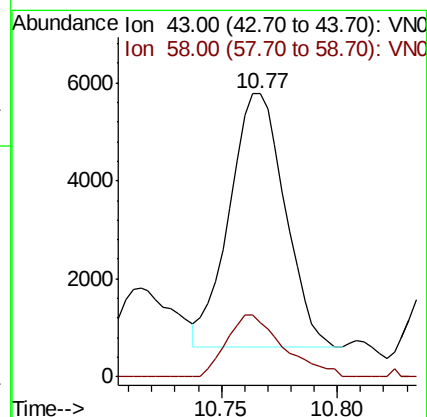
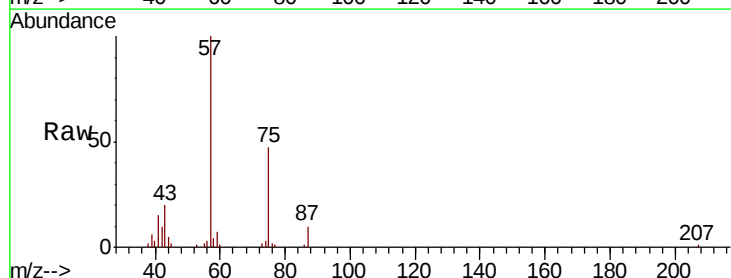
Acq: 13 Oct 2018 2:05

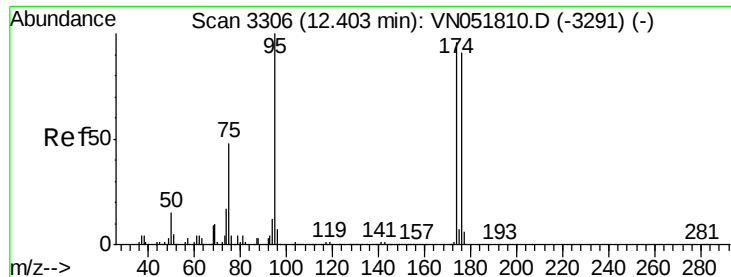
Tgt Ion: 43 Resp: 8558

Ion Ratio Lower Upper

43 100

58 25.2 28.3 85.0#

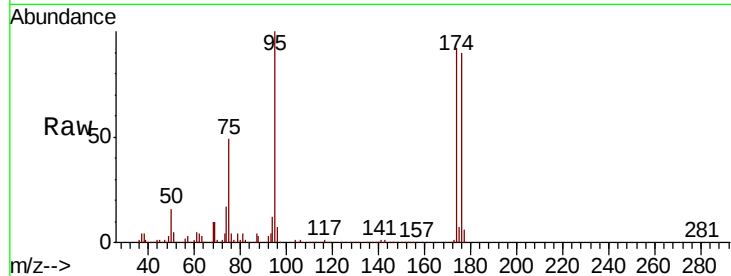




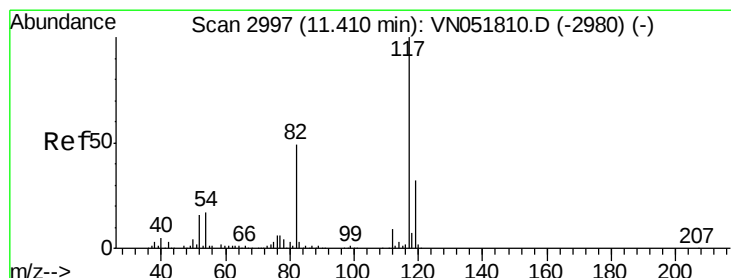
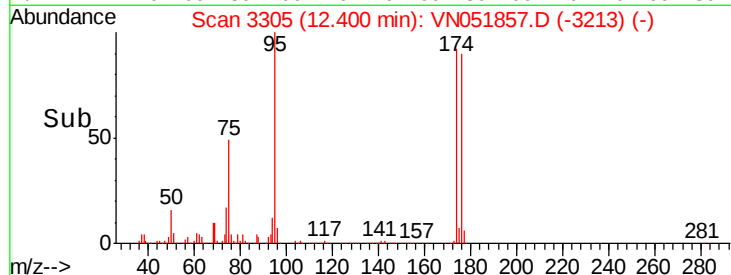
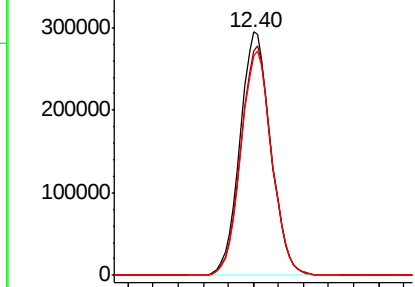
#62
4-Bromofluorobenzene
Concen: Below ug/l
RT: 12.40 min Scan# 3305
Delta R.T. -0.00 min
Lab File: VN051857.D
Acq: 13 Oct 2018 2:05

Instrument :
MSVOA_N
ClientSampleId :
KG-SOIL

Tot Ion: 95 Resp: 501243
Ion Ratio Lower Upper
95 100
174 94.9 0.0 183.0
176 92.5 0.0 178.8

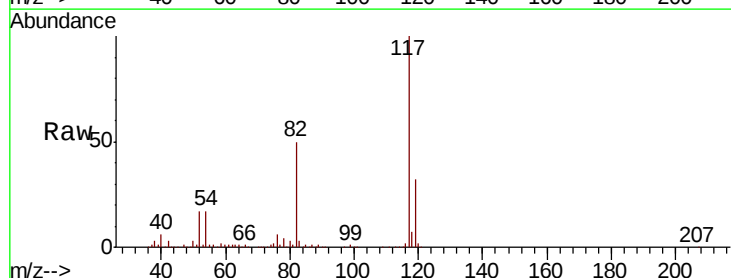


Abundance Ion 94.90 (94.60 to 95.60): VN051810.D (-3291) (-)
Ion 173.80 (173.50 to 174.50): VN051810.D (-3291) (-)
Ion 175.80 (175.50 to 176.50): VN051810.D (-3291) (-)

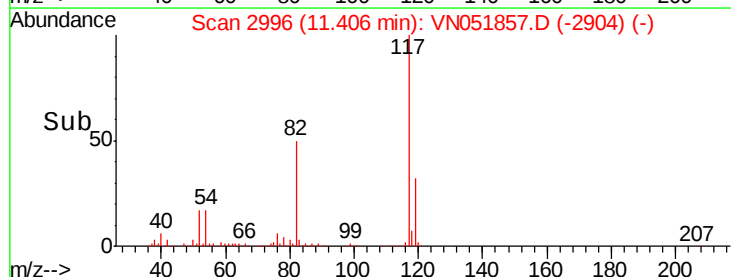
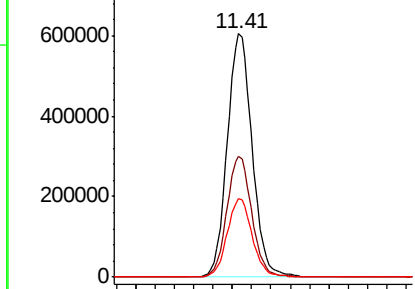


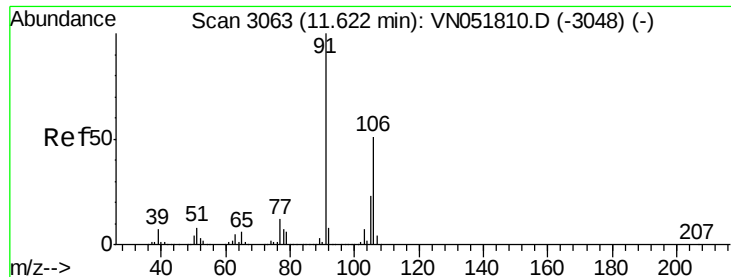
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN051857.D
Acq: 13 Oct 2018 2:05

Tgt Ion: 117 Resp: 1082722
Ion Ratio Lower Upper
117 100
82 49.8 42.6 64.0
119 32.2 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) (-)





#68

m/p-Xvlenes

Concen: 0.311 ug/l

RT: 11.62 min Scan# 3063

Delta R.T. 0.00 min

Lab File: VN051857.D

Acq: 13 Oct 2018 2:05

Instrument :

MSVOA_N

ClientSampleId :

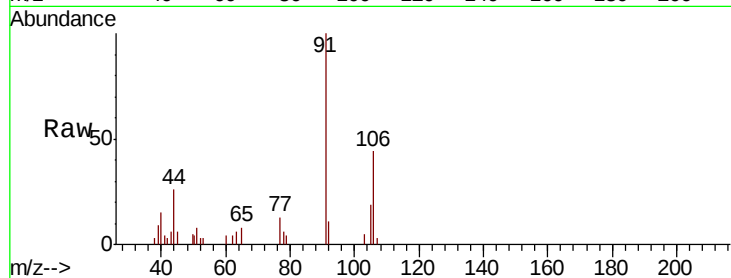
KG-SOIL

Tot Ion:106 Resp: 4551

Ion Ratio Lower Upper

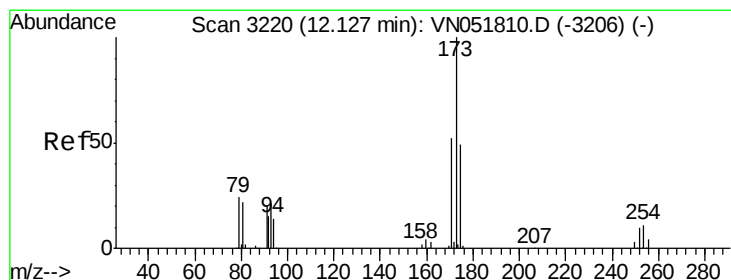
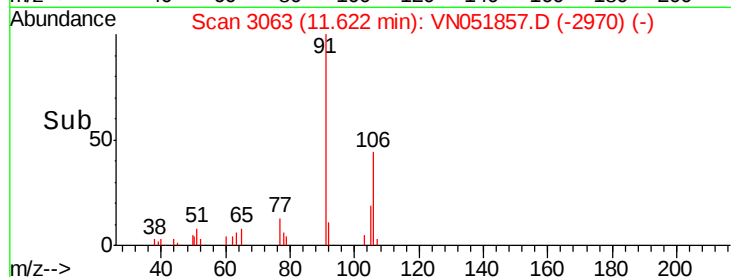
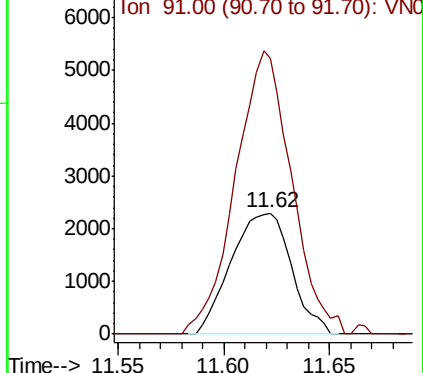
106 100

91 218.1 161.0 241.6



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VN



#71

Bromoform

Concen: 4.093 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.27 min

Lab File: VN051857.D

Acq: 13 Oct 2018 2:05

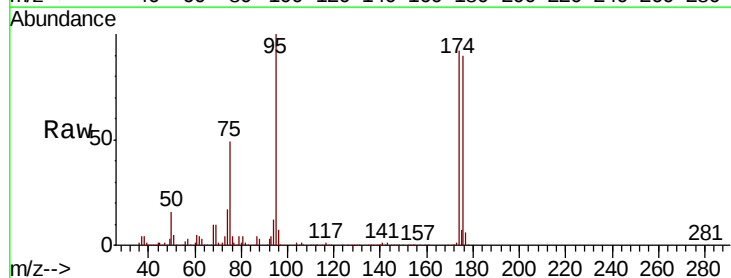
Tgt Ion:173 Resp: 3636

Ion Ratio Lower Upper

173 100

175 831.1 24.4 73.4#

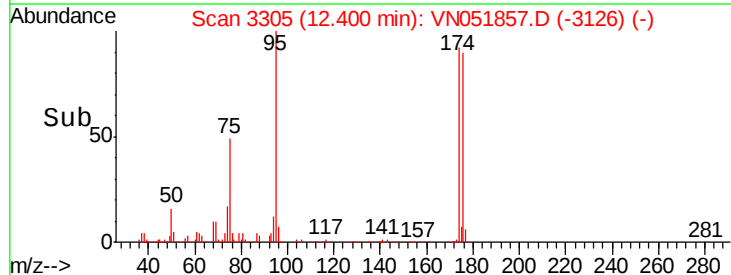
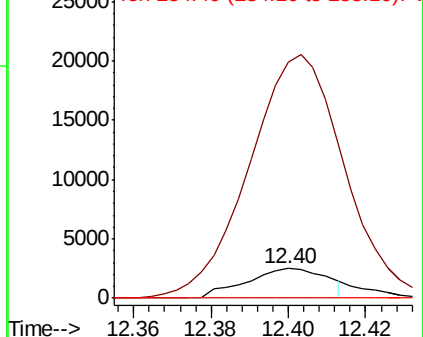
254 0.0 0.1 0.1#

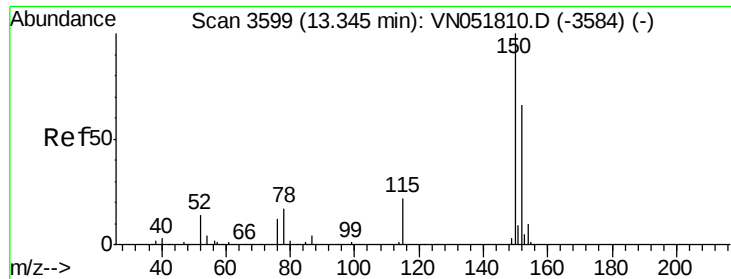


Abundance Ion 172.70 (172.40 to 173.40): V

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: VN051857.D

Acq: 13 Oct 2018 2:05

Instrument :

MSVOA_N

ClientSampled :

KG-SOIL

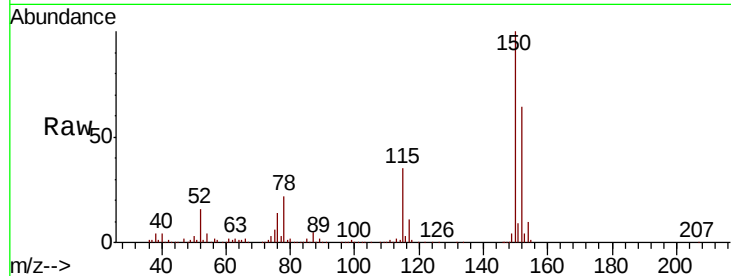
Tot Ion:152 Resp: 435978

Ion Ratio Lower Upper

152 100

115 55.0 27.8 83.4

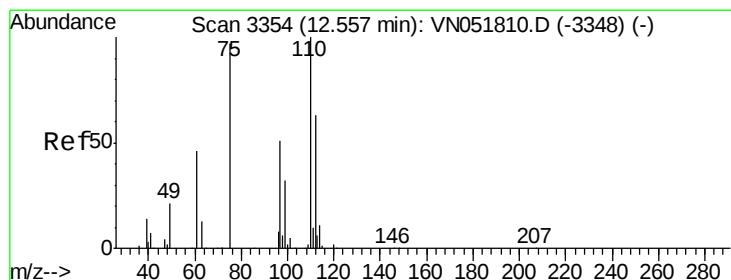
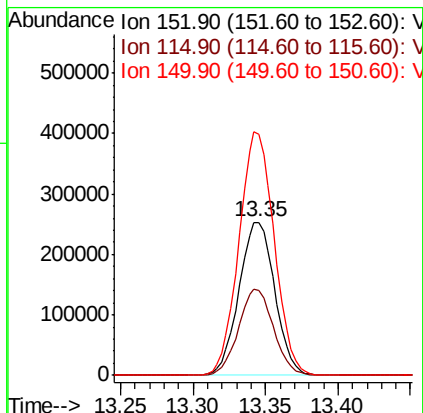
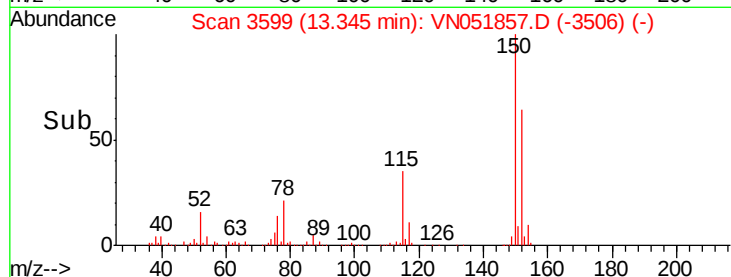
150 156.5 0.0 351.4



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: 46.465 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.16 min

Lab File: VN051857.D

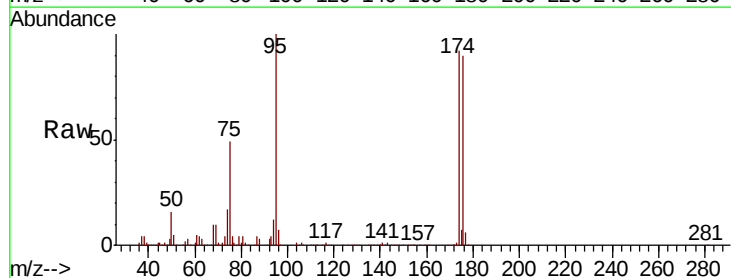
Acq: 13 Oct 2018 2:05

Tgt Ion: 75 Resp: 250105

Ion Ratio Lower Upper

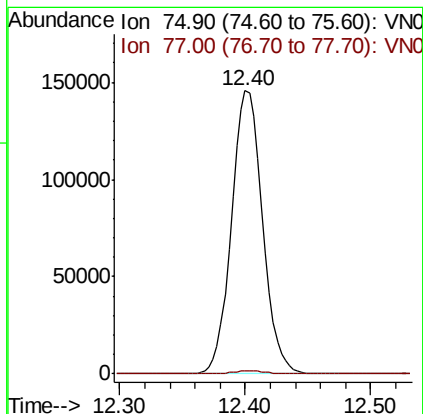
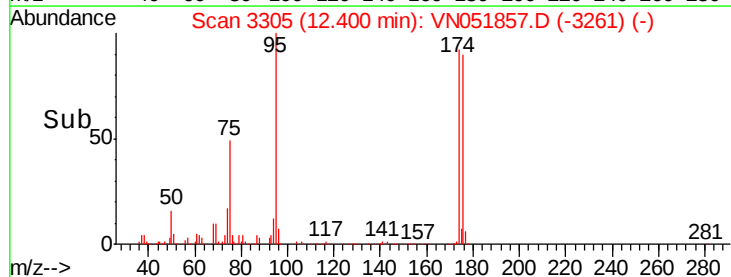
75 100

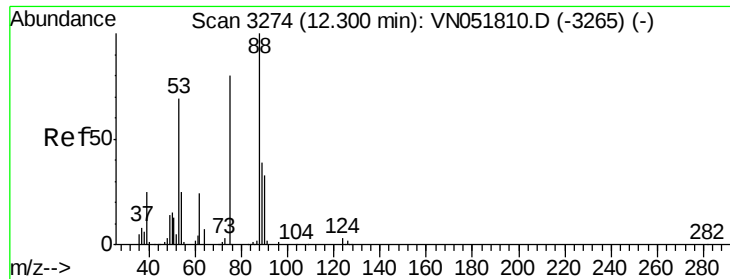
77 1.1 0.0 0.0#



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: 132.103 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN051857.D

Acq: 13 Oct 2018 2:05

Instrument :

MSVOA_N

ClientSampleId :

KG-SOIL

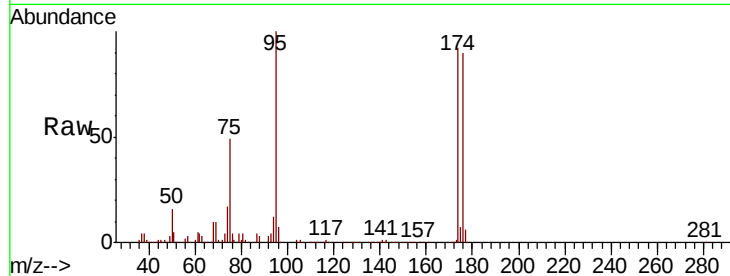
Tot Ion: 75 Resp: 250105

Ion Ratio Lower Upper

75 100

53 0.0 68.9 103.3#

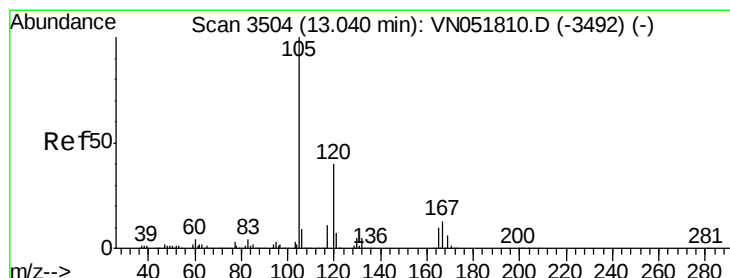
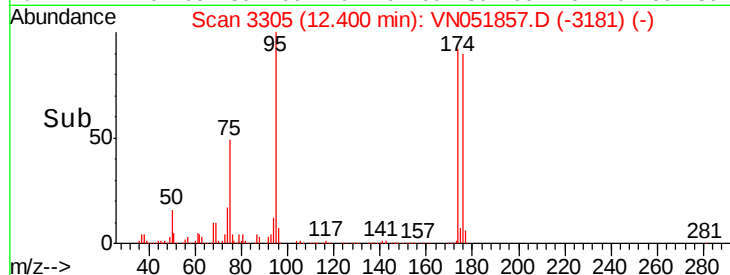
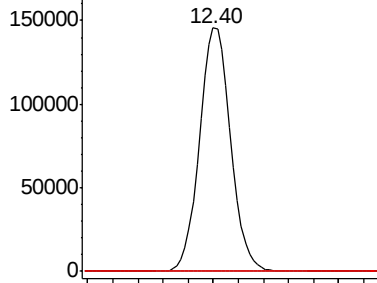
89 0.0 36.1 54.1#



Abundance Ion 74.90 (74.60 to 75.60): VN051810.D (-3265) (-)

Ion 53.00 (52.70 to 53.70): VN051810.D (-3265) (-)

Ion 88.90 (88.60 to 89.60): VN051810.D (-3265) (-)



#84

1,2,4-Trimethylbenzene

Concen: 0.463 ug/l

RT: 13.04 min Scan# 3504

Delta R.T. 0.00 min

Lab File: VN051857.D

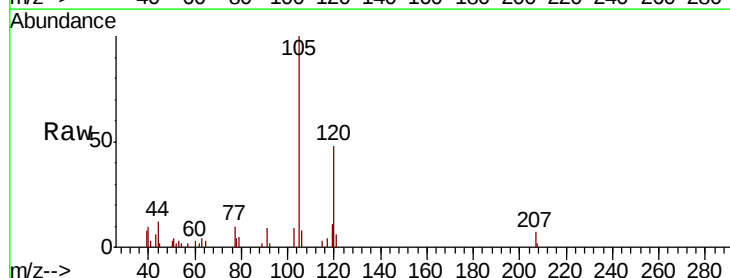
Acq: 13 Oct 2018 2:05

Tgt Ion: 105 Resp: 12625

Ion Ratio Lower Upper

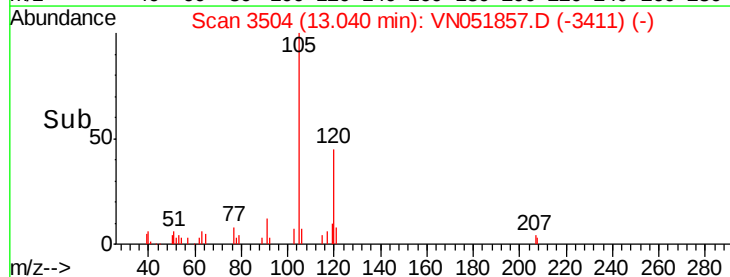
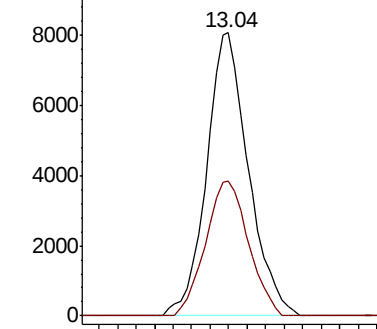
105 100

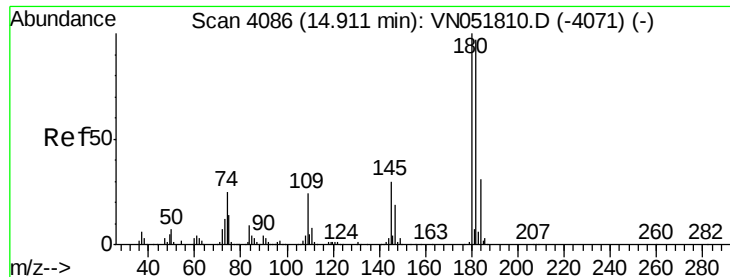
120 48.9 22.9 68.8



Abundance Ion 105.00 (104.70 to 105.70): VN051810.D (-3492) (-)

Ion 120.00 (119.70 to 120.70): VN051810.D (-3492) (-)

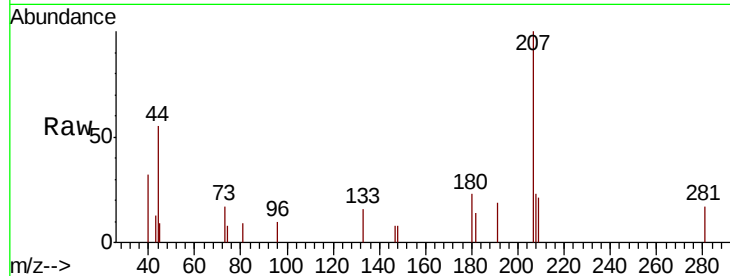




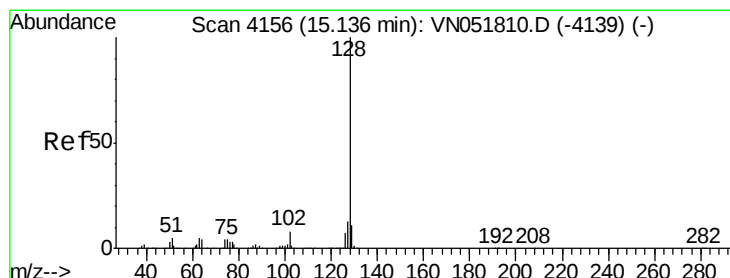
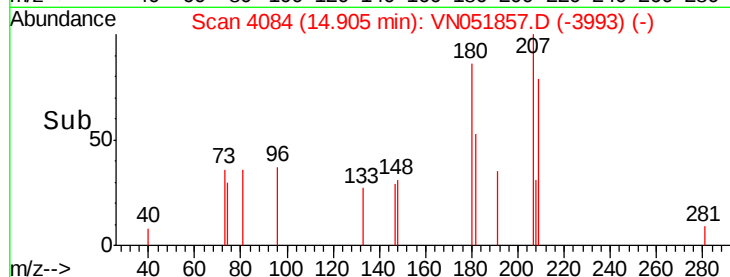
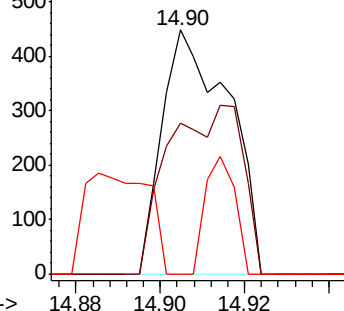
#93
 1,2,4-Trichlorobenzene
 Concen: 3.717 ug/l
 RT: 14.90 min Scan# 4084
 Delta R.T. -0.01 min
 Lab File: VN051857.D
 Acq: 13 Oct 2018 2:05

Instrument :
 MSVOA_N
 ClientSampleId :
 KG-SOIL

Tot Ion	Ratio	Lower	Upper
180	100		
182	76.8	48.2	144.6
145	21.5	14.1	42.2

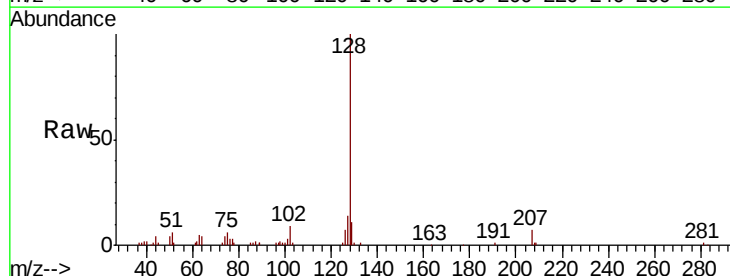


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

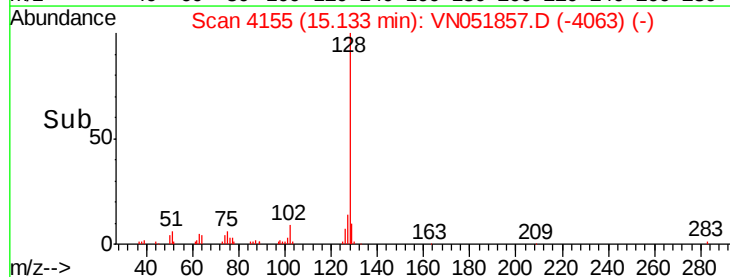
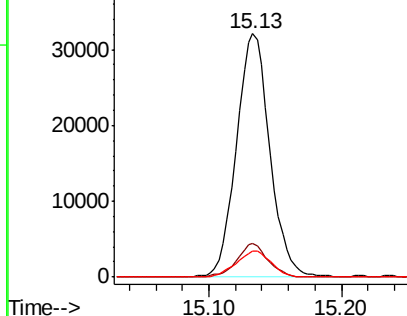


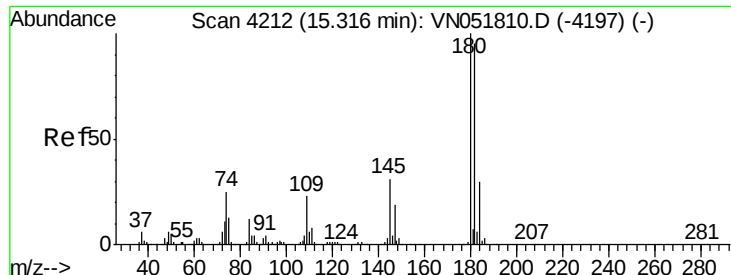
#95
 Naphthalene
 Concen: 7.576 ug/l
 RT: 15.13 min Scan# 4155
 Delta R.T. -0.00 min
 Lab File: VN051857.D
 Acq: 13 Oct 2018 2:05

Tgt Ion	Ratio	Lower	Upper
128	100		
127	12.7	10.5	15.7
129	11.0	8.7	13.1



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

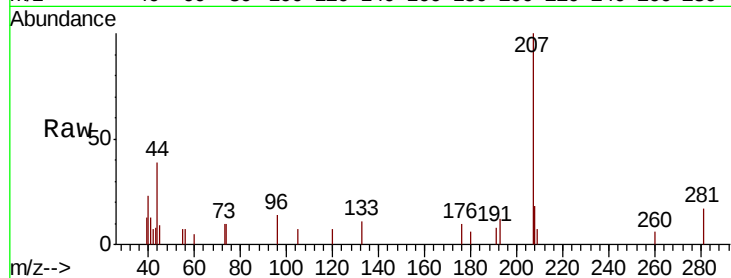




#96
 1,2,3-Trichlorobenzene
 Concen: 2.865 ug/l
 RT: 15.33 min Scan# 4215
 Delta R.T. 0.01 min
 Lab File: VN051857.D
 Acq: 13 Oct 2018 2:05

Instrument :
 MSVOA_N
 ClientSampleId :
 KG-SOIL

Tot Ion	Ratio	Lower	Upper
180	100		
182	162.5	48.0	144.2#
145	0.0	15.2	45.6#



Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.90 (144.60 to 145.60): V

