

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN080618\
 Data File : VN050413.D
 Acq On : 7 Aug 2018 4:17
 Operator : MD\SY
 Sample : J4333-12
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 42 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 SOIL-3

Quant Time: Aug 07 07:15:28 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N080618W.M
 Quant Title : SW846 8260
 QLast Update : Tue Aug 07 05:22:15 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	643728	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1039693	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	883864	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	323833	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	448855	52.19	ug/l	0.00
Spiked Amount			Recovery	=	104.38%	
35) Dibromofluoromethane	7.59	113	409165	49.05	ug/l	0.00
Spiked Amount			Recovery	=	98.10%	
50) Toluene-d8	10.09	98	1439450	45.89	ug/l	0.00
Spiked Amount			Recovery	=	91.78%	
62) 4-Bromofluorobenzene	12.40	95	390807	36.56	ug/l	0.00
Spiked Amount			Recovery	=	73.12%	

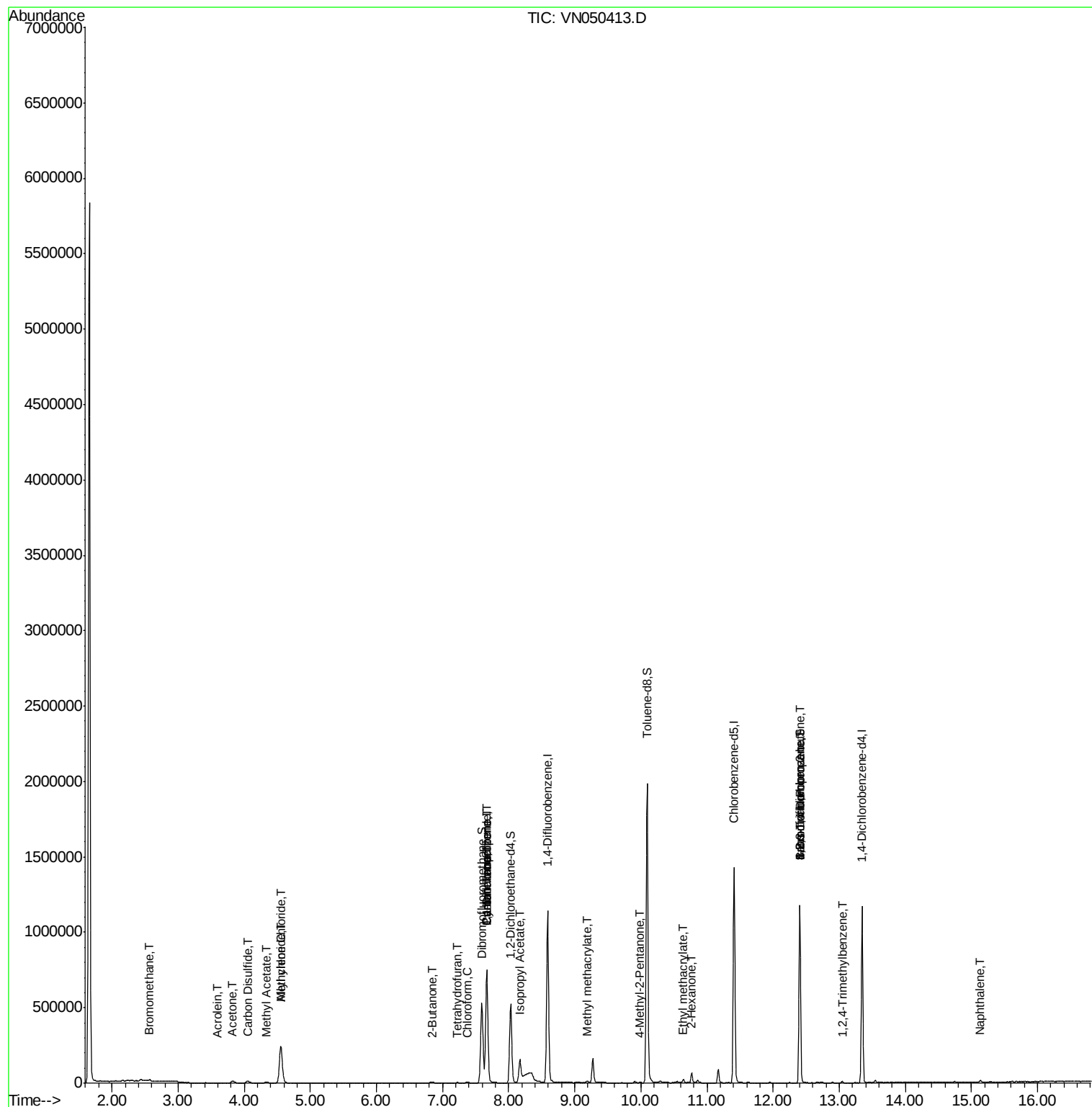
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.06	50	3953	Below Cal		94
5) Bromomethane	2.57	94	4914	1.26	ug/l	91
13) Acrolein	3.59	56	59	15.09	ug/l #	59
14) Allyl chloride	4.55	41	7255	0.65	ug/l #	24
16) Acetone	3.82	43	23499	8.81	ug/l	98
17) Carbon Disulfide	4.05	76	27203	1.20	ug/l	99
18) Methyl Acetate	4.34	43	13272	1.81	ug/l	92
20) Methylene Chloride	4.55	84	191459	23.59	ug/l	98
25) 2-Butanone	6.85	43	5155	1.21	ug/l	98
29) Tetrahydrofuran	7.23	42	1945	0.85	ug/l #	72
30) Chloroform	7.38	83	6373	0.46	ug/l	86
31) Cyclohexane	7.67	56	11878	0.34	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	45405	3.97	ug/l #	48
38) Carbon Tetrachloride	7.67	117	58896	4.94	ug/l #	17
43) Isopropyl Acetate	8.17	43	186969	13.17	ug/l	99
48) Methyl methacrylate	9.18	41	7537	1.06	ug/l #	22
51) 4-Methyl-2-Pentanone	9.99	43	2246	0.22	ug/l #	83
56) Ethyl methacrylate	10.63	69	61	1.72	ug/l #	1
59) 2-Hexanone	10.77	43	9633	1.35	ug/l #	57
71) Bromoform	12.40	173	3051	0.52	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	190014	32.42	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	190014	113.90	ug/l #	13
84) 1,2,4-Trimethylbenzene	13.04	105	4804	0.24	ug/l	86
95) Naphthalene	15.13	128	10415	4.24	ug/l	96

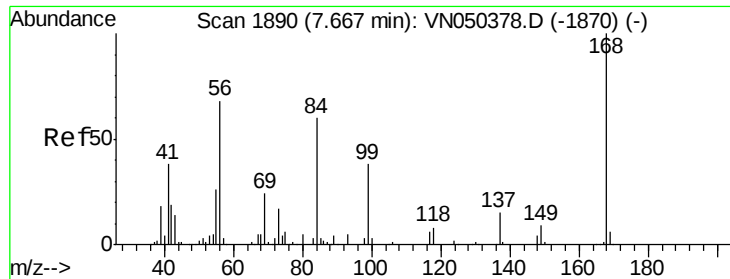
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Tue Aug 07 05:22:15 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. -0.00 min

Lab File: VN050413.D

Acq: 7 Aug 2018 4:17

Instrument :

MSVOA_N

ClientSampleId :

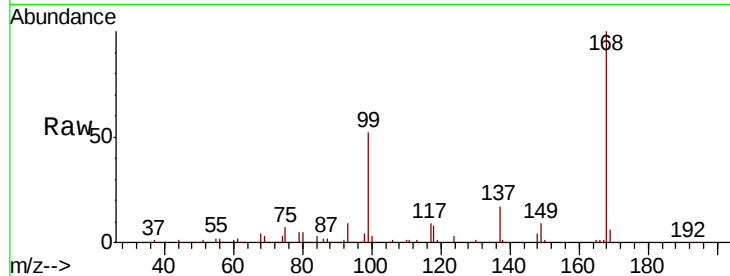
SOIL-3

Tot Ion:168 Resp: 643728

Ion Ratio Lower Upper

168 100

99 51.8 40.0 60.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.67

250000

200000

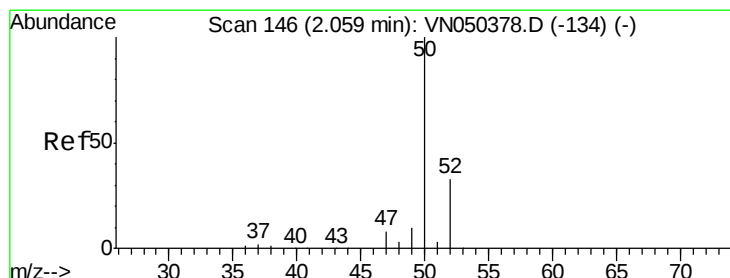
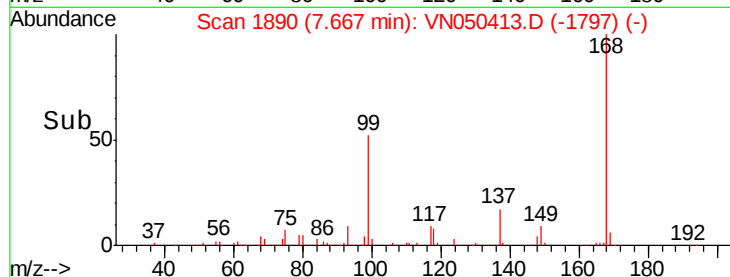
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: Below Cal

RT: 2.06 min Scan# 146

Delta R.T. 0.00 min

Lab File: VN050413.D

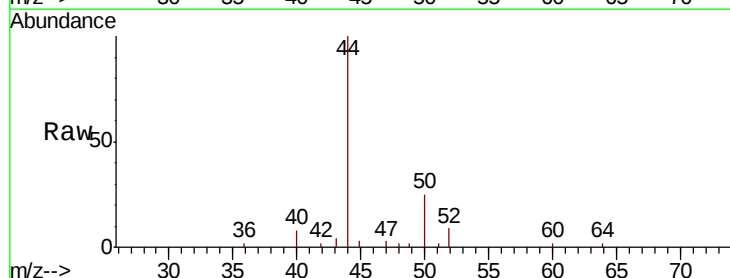
Acq: 7 Aug 2018 4:17

Tgt Ion: 50 Resp: 3953

Ion Ratio Lower Upper

50 100

52 35.7 25.9 38.9



Abundance Ion 49.90 (49.60 to 50.60): VN

Ion 51.90 (51.60 to 52.60): VN

2.06

3000

2500

2000

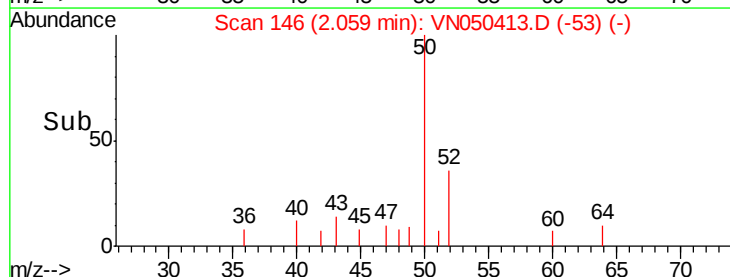
1500

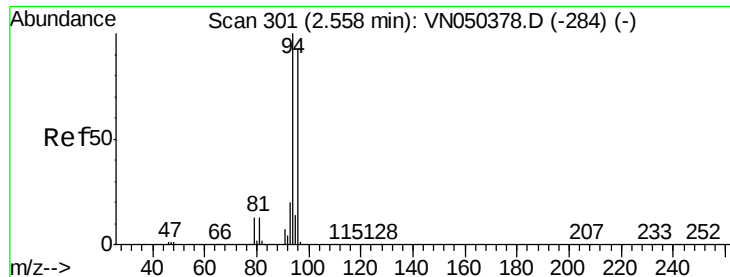
1000

500

0

Time-->





#5

Bromomethane

Concen: 1.26 ug/l

RT: 2.57 min Scan# 304

Delta R.T. 0.01 min

Lab File: VN050413.D

Acq: 7 Aug 2018 4:17

Instrument :

MSVOA_N

ClientSampled :

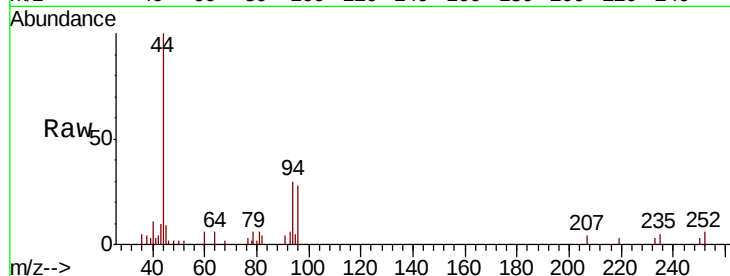
SOIL-3

Tot Ion: 94 Resp: 4914

Ion Ratio Lower Upper

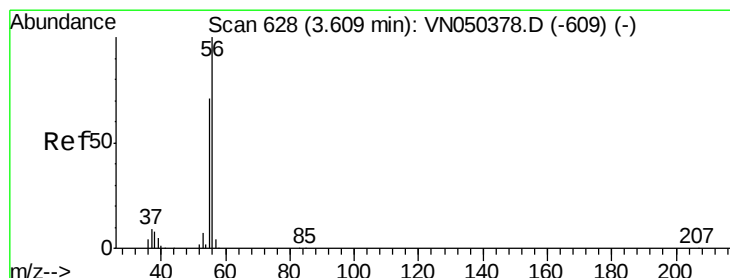
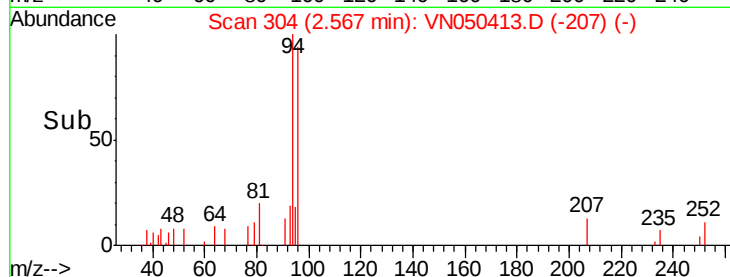
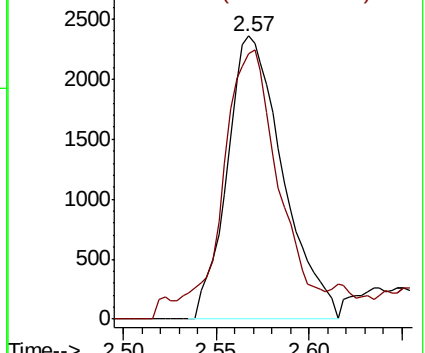
94 100

96 84.4 74.6 112.0



Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0



#13

Acrolein

Concen: 15.09 ug/l

RT: 3.59 min Scan# 623

Delta R.T. -0.02 min

Lab File: VN050413.D

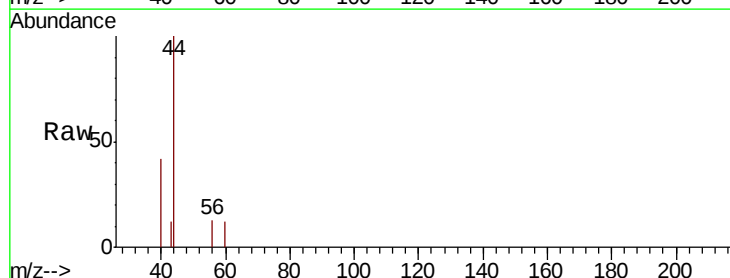
Acq: 7 Aug 2018 4:17

Tgt Ion: 56 Resp: 59

Ion Ratio Lower Upper

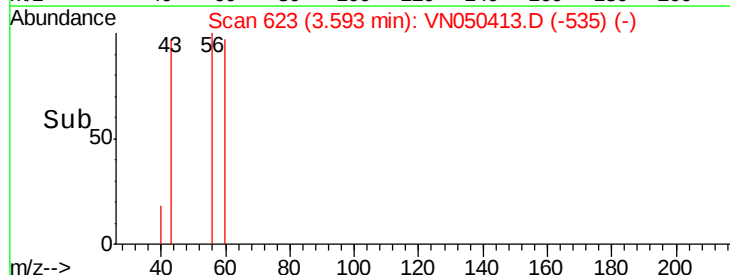
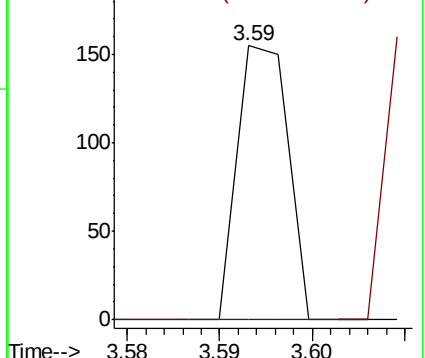
56 100

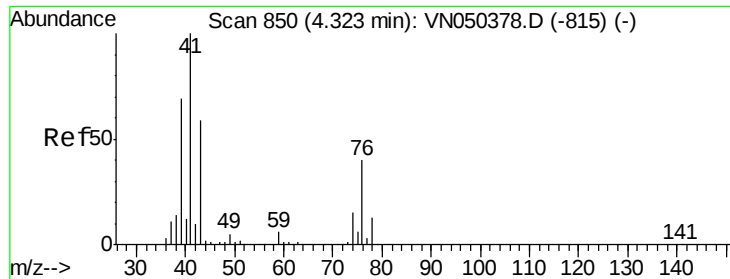
55 103.4 55.8 83.6#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0





#14

Allvl chloride

Concen: 0.65 ug/l

RT: 4.55 min Scan# 922

Delta R.T. 0.23 min

Lab File: VN050413.D

Acq: 7 Aug 2018 4:17

Instrument :

MSVOA_N

ClientSampleId :

SOIL-3

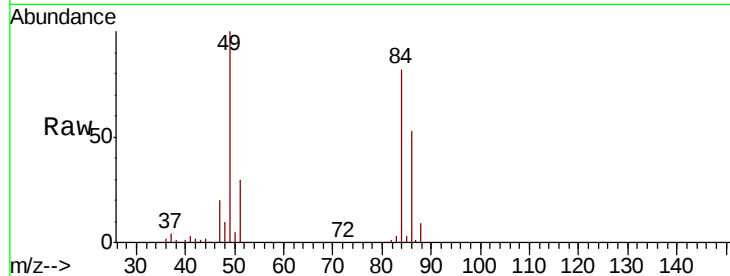
Tot Ion: 41 Resp: 7255

Ion Ratio Lower Upper

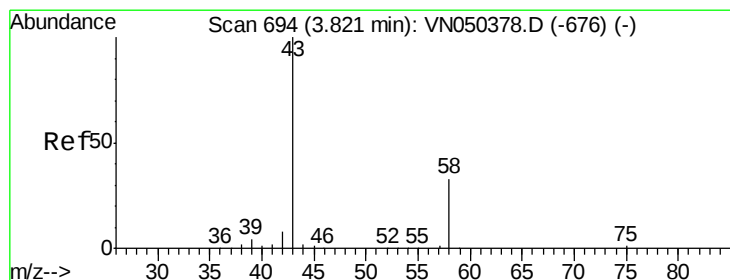
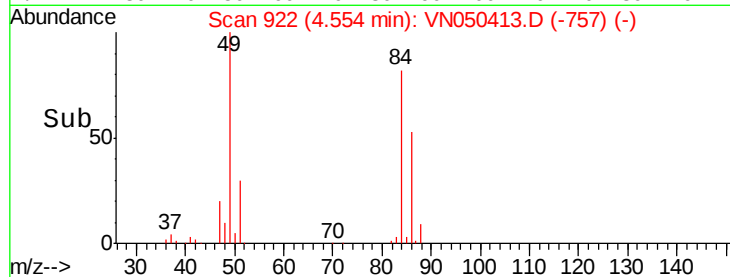
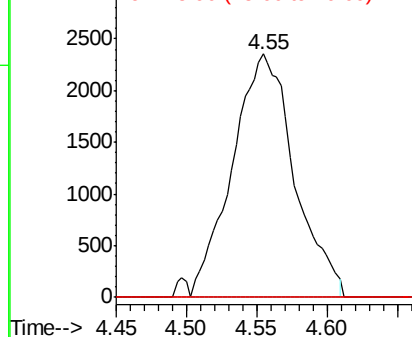
41 100

39 0.0 54.2 81.4#

76 0.0 29.0 43.6#



Abundance Ion 41.00 (40.70 to 41.70): VNO
Ion 39.00 (38.70 to 39.70): VNO
Ion 75.90 (75.60 to 76.60): VNO



#16

Acetone

Concen: 8.81 ug/l

RT: 3.82 min Scan# 695

Delta R.T. 0.00 min

Lab File: VN050413.D

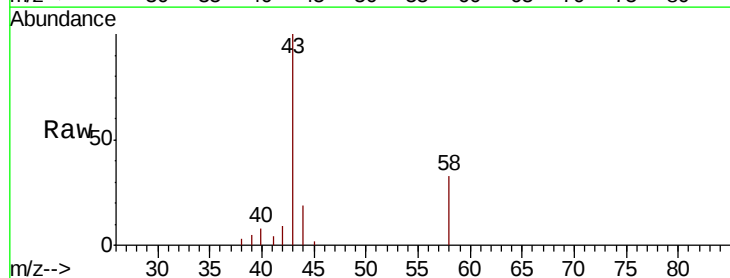
Acq: 7 Aug 2018 4:17

Tgt Ion: 43 Resp: 23499

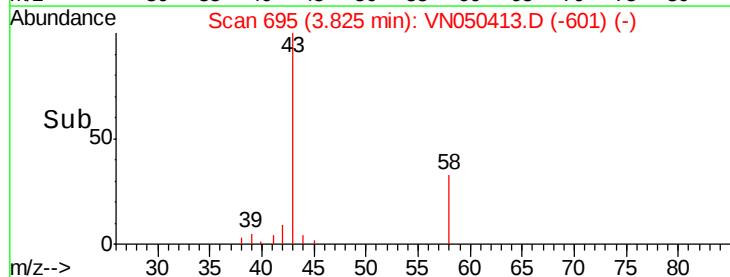
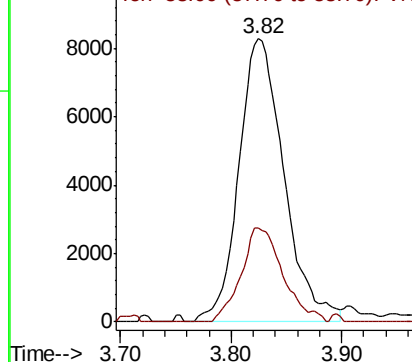
Ion Ratio Lower Upper

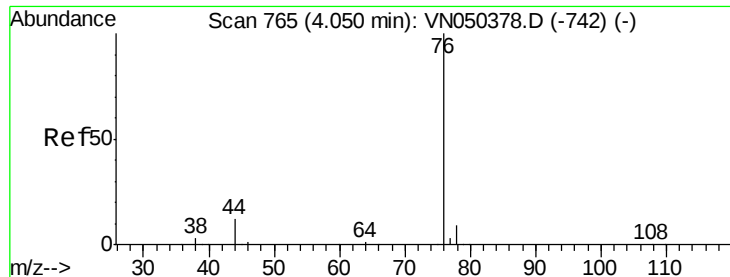
43 100

58 33.4 25.8 38.8



Abundance Ion 43.00 (42.70 to 43.70): VNO
Ion 58.00 (57.70 to 58.70): VNO





#17

Carbon Disulfide

Concen: 1.20 ug/l

RT: 4.05 min Scan# 765

Delta R.T. -0.00 min

Lab File: VN050413.D

Acq: 7 Aug 2018 4:17

Instrument :

MSVOA_N

ClientSampled :

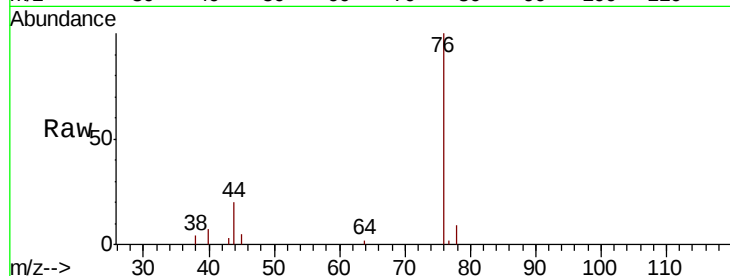
SOIL-3

Tot Ion: 76 Resp: 27203

Ion Ratio Lower Upper

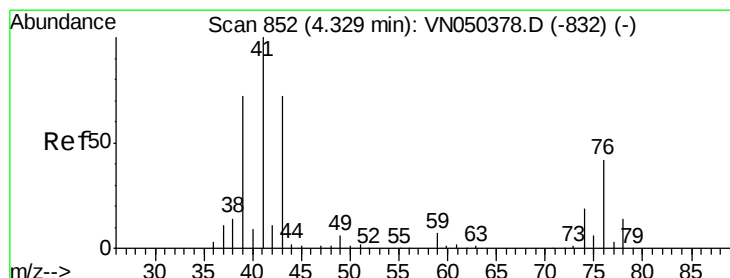
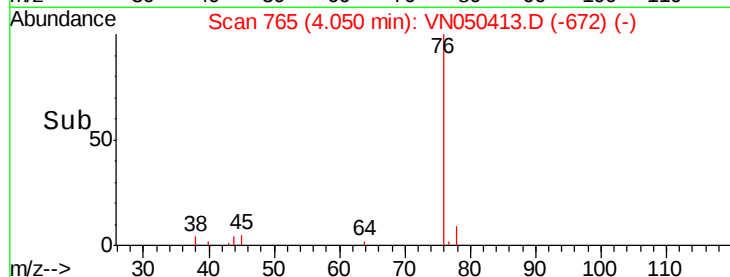
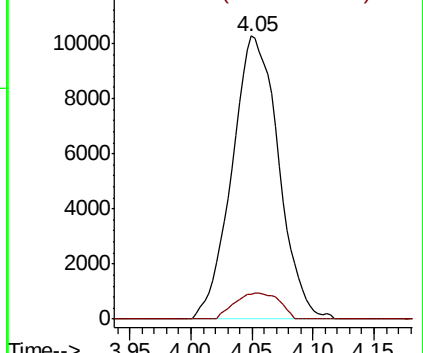
76 100

78 8.8 7.3 10.9



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



#18

Methyl Acetate

Concen: 1.81 ug/l

RT: 4.34 min Scan# 854

Delta R.T. 0.01 min

Lab File: VN050413.D

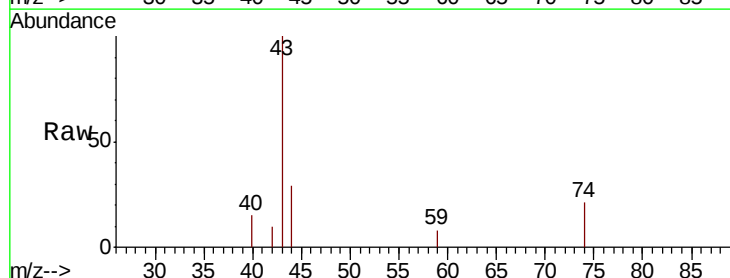
Acq: 7 Aug 2018 4:17

Tgt Ion: 43 Resp: 13272

Ion Ratio Lower Upper

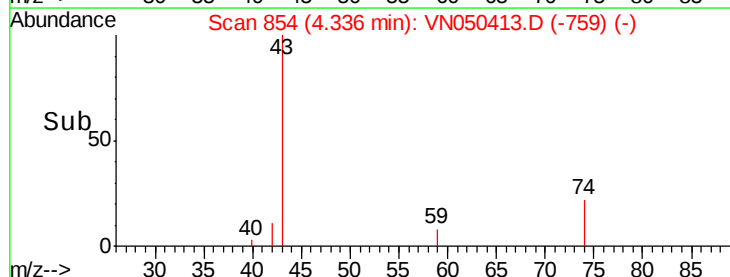
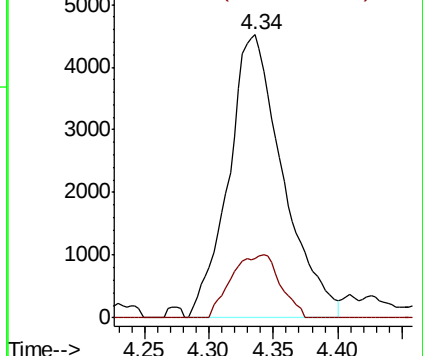
43 100

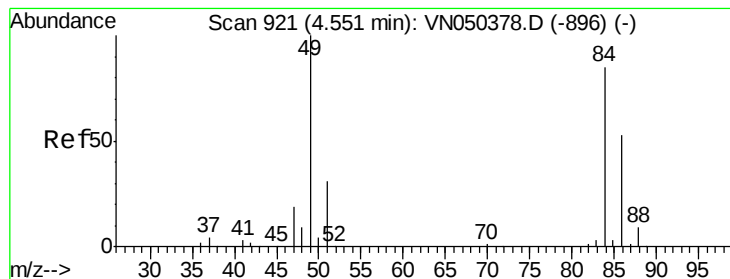
74 20.1 19.2 28.8



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0





#20

Methvlene Chloride

Concen: 23.59 ug/l

RT: 4.55 min Scan# 921

Delta R.T. 0.00 min

Lab File: VN050413.D

Acq: 7 Aug 2018 4:17

Instrument :

MSVOA_N

ClientSampled :

SOIL-3

Tot Ion: 84 Resp: 191459

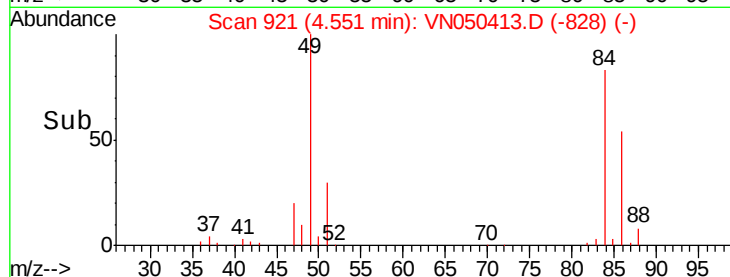
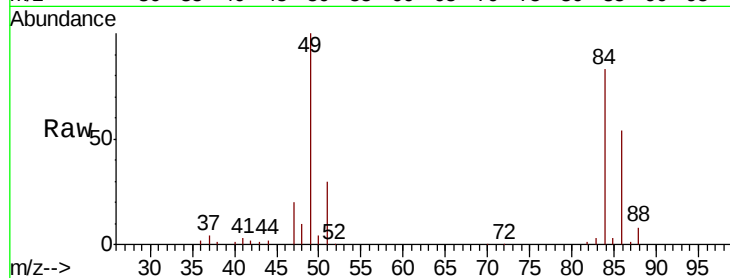
Ion Ratio Lower Upper

84 100

49 120.8 94.8 142.2

51 36.4 28.3 42.5

86 64.7 51.0 76.6

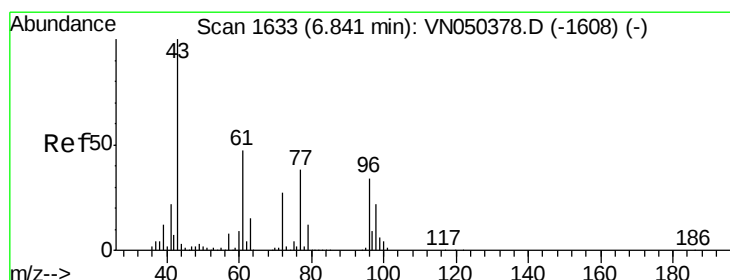
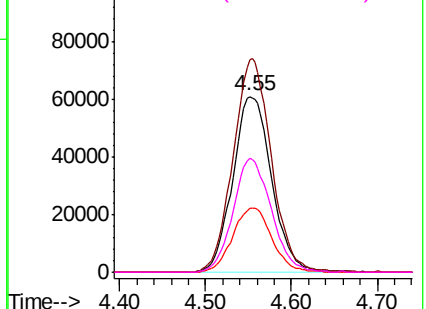


Abundance Ion 83.90 (83.60 to 84.60): VNO

Ion 48.90 (48.60 to 49.60): VNO

Ion 50.90 (50.60 to 51.60): VNO

Ion 85.90 (85.60 to 86.60): VNO



#25

2-Butanone

Concen: 1.21 ug/l

RT: 6.85 min Scan# 1636

Delta R.T. 0.01 min

Lab File: VN050413.D

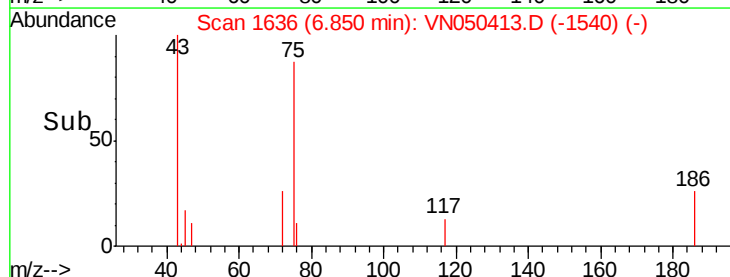
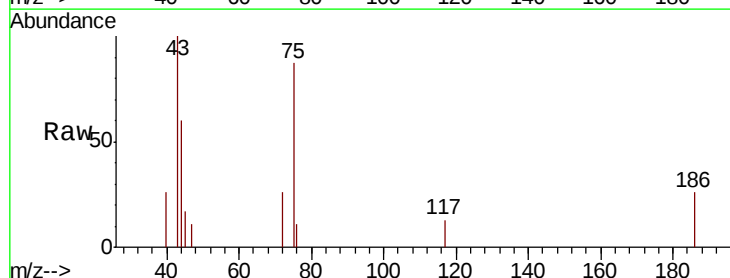
Acq: 7 Aug 2018 4:17

Tgt Ion: 43 Resp: 5155

Ion Ratio Lower Upper

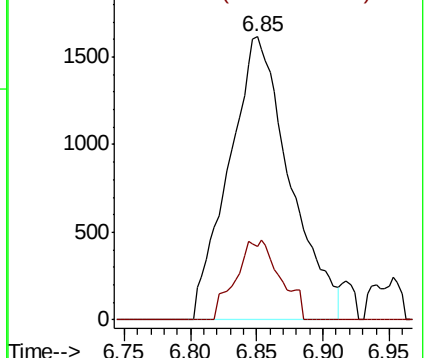
43 100

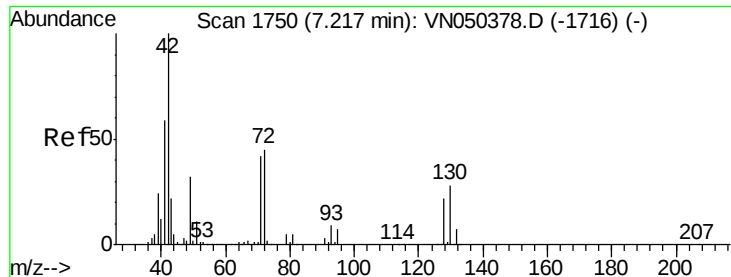
72 26.0 21.5 32.3



Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 72.00 (71.70 to 72.70): VNO





#29

Tetrahydrofuran

Concen: 0.85 ug/l

RT: 7.23 min Scan# 1753

Delta R.T. 0.01 min

Lab File: VN050413.D

Acq: 7 Aug 2018 4:17

Instrument :

MSVOA_N

ClientSampled :

SOIL-3

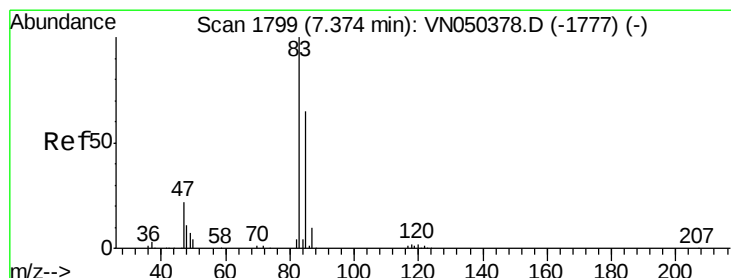
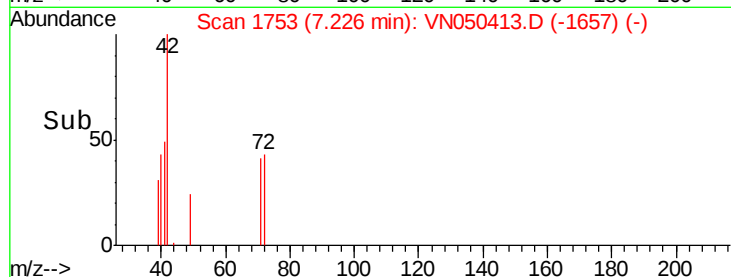
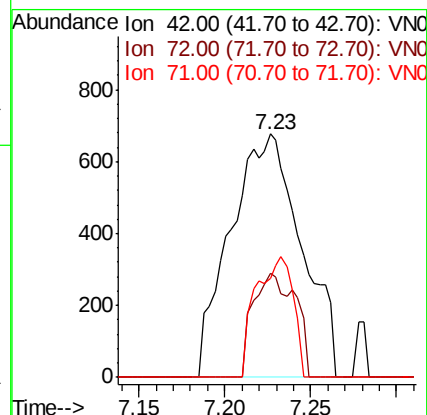
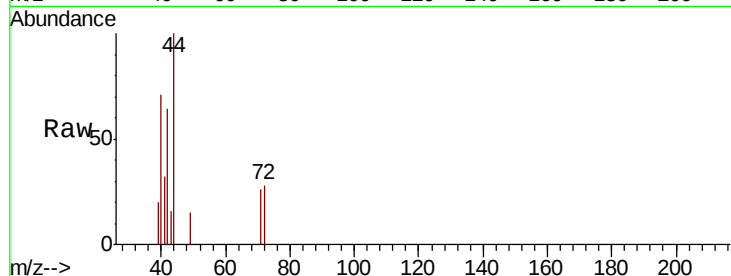
Tot Ion: 42 Resp: 1945

Ion Ratio Lower Upper

42 100

72 25.2 35.9 53.9#

71 25.7 33.7 50.5#



#30

Chloroform

Concen: 0.46 ug/l

RT: 7.38 min Scan# 1800

Delta R.T. 0.00 min

Lab File: VN050413.D

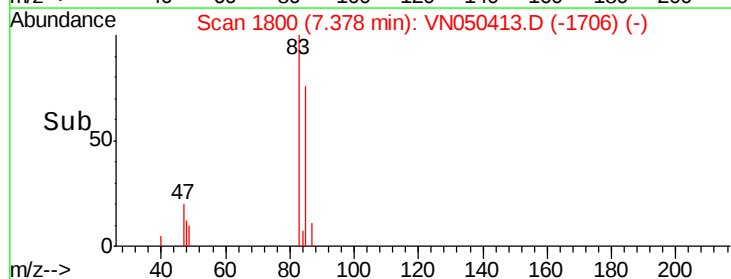
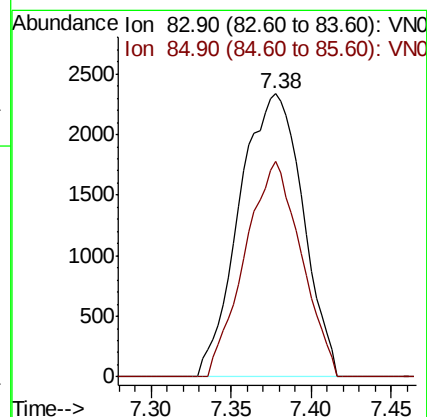
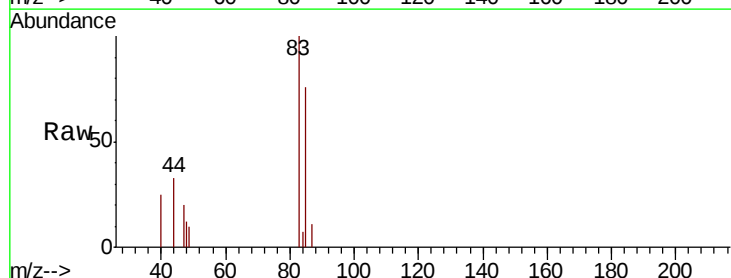
Acq: 7 Aug 2018 4:17

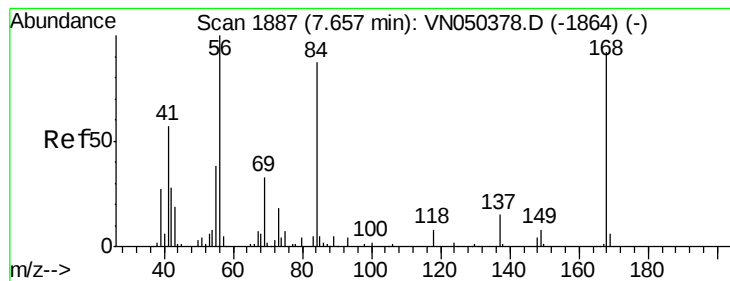
Tgt Ion: 83 Resp: 6373

Ion Ratio Lower Upper

83 100

85 76.4 52.5 78.7





#31

Cyclohexane

Concen: 0.34 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. 0.01 min

Lab File: VN050413.D

Acq: 7 Aug 2018 4:17

Instrument :

MSVOA_N

ClientSampled :

SOIL-3

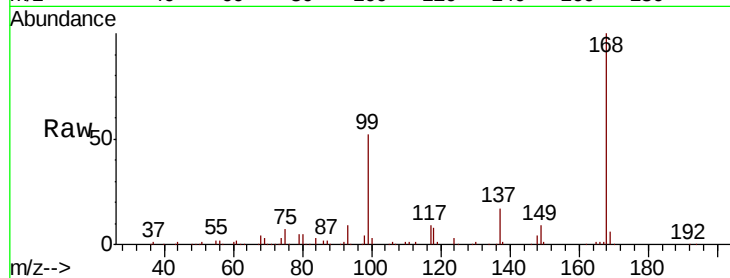
Tot Ion: 56 Resp: 11878

Ion Ratio Lower Upper

56 100

69 180.0 26.2 39.4#

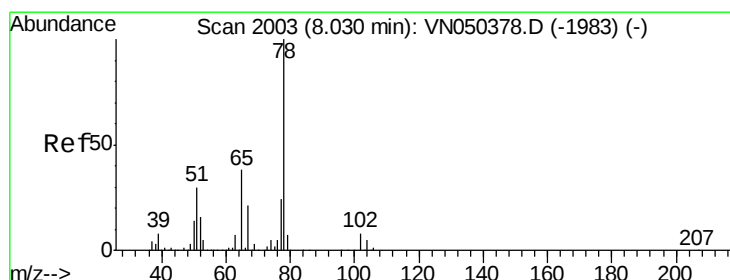
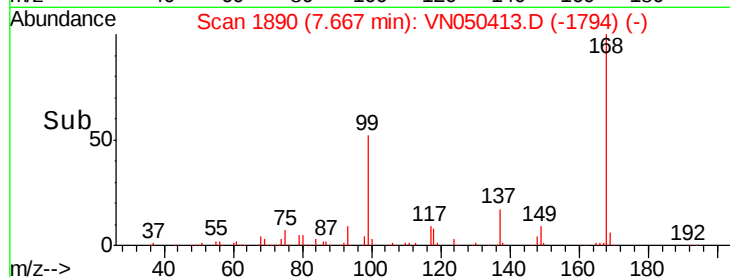
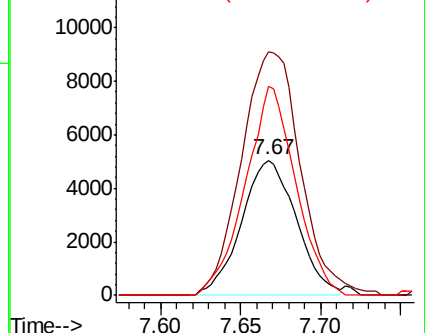
84 154.4 67.4 101.0#



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: 52.19 ug/l

RT: 8.03 min Scan# 2003

Delta R.T. -0.00 min

Lab File: VN050413.D

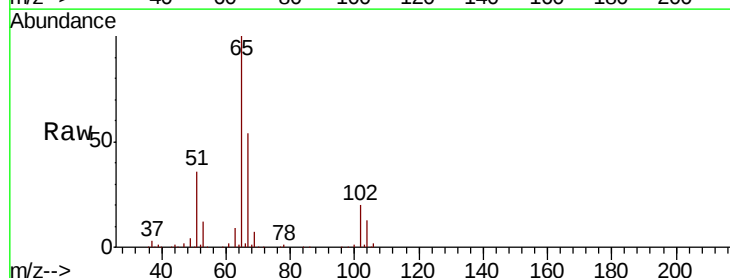
Acq: 7 Aug 2018 4:17

Tgt Ion: 65 Resp: 448855

Ion Ratio Lower Upper

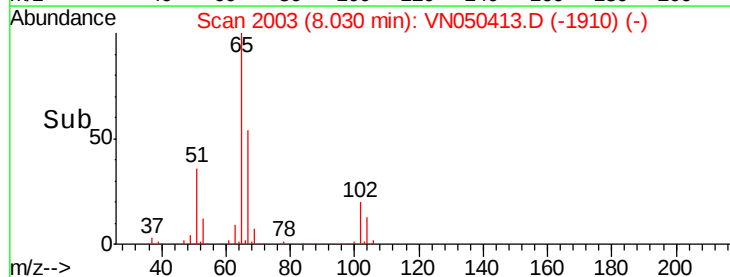
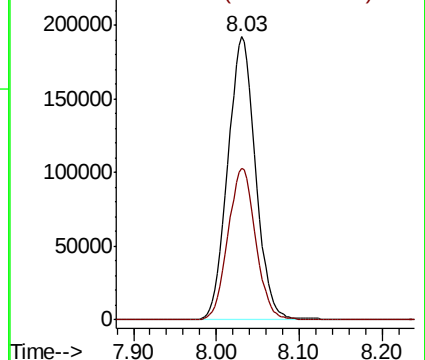
65 100

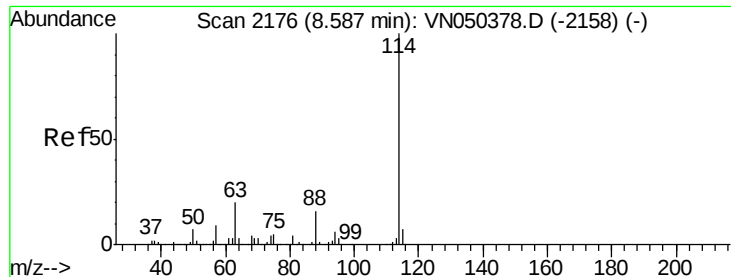
67 53.3 0.0 108.4



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

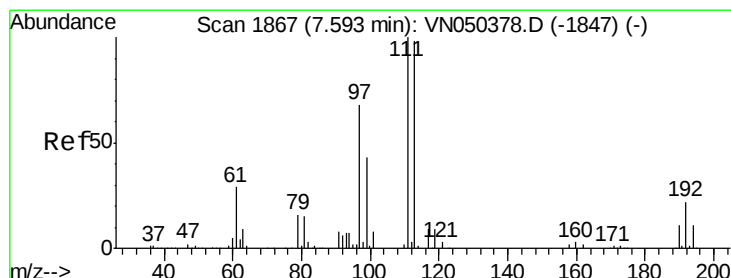
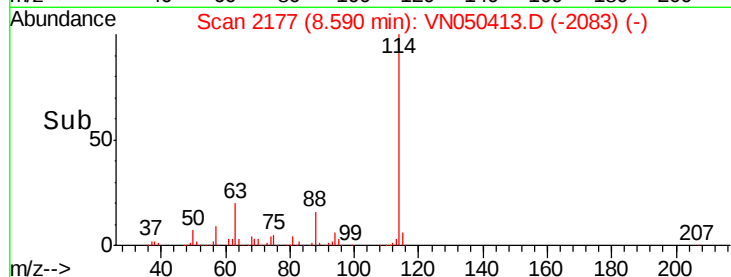
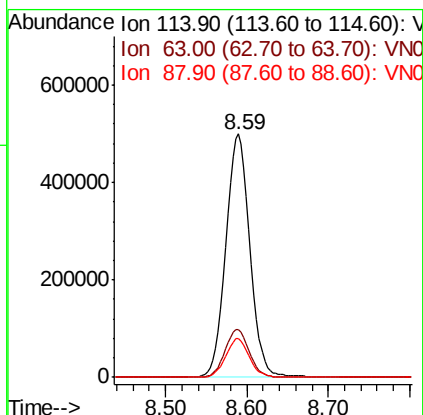
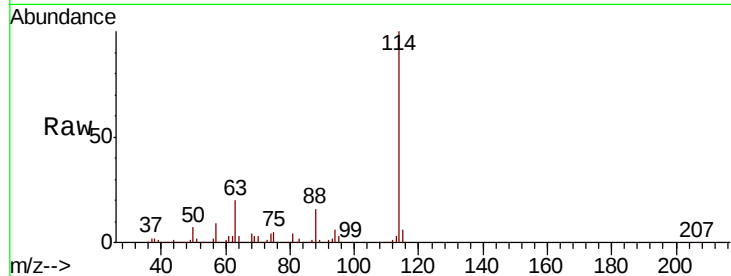




#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2177
 Delta R.T. 0.00 min
 Lab File: VN050413.D
 Acq: 7 Aug 2018 4:17

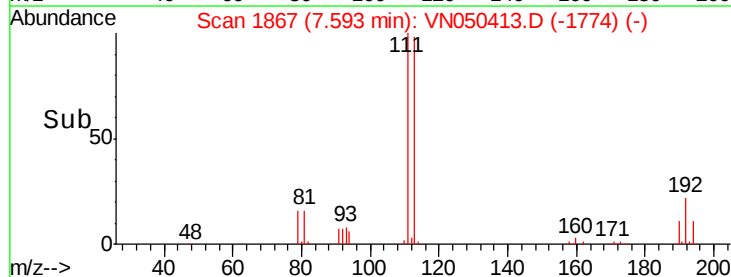
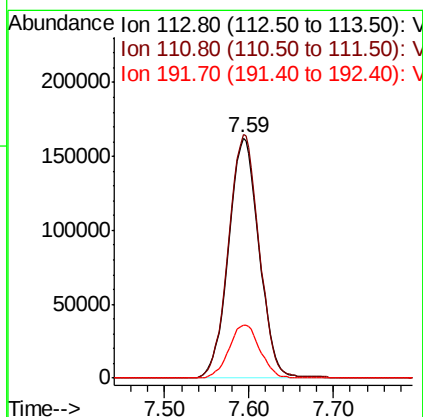
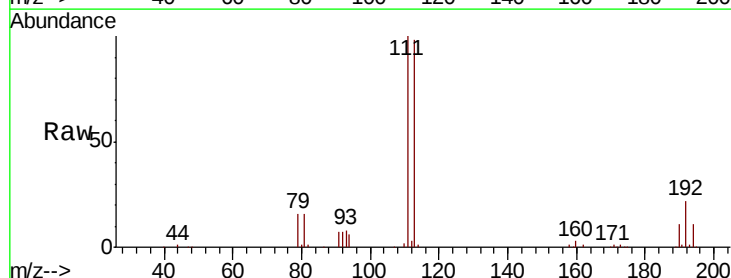
Instrument :
 MSVOA_N
 ClientSampleId :
 SOIL-3

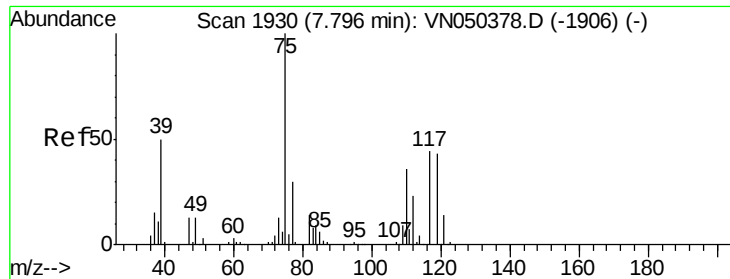
Tot Ion:114 Resp: 1039693
 Ion Ratio Lower Upper
 114 100
 63 19.7 0.0 40.0
 88 15.9 0.0 31.2



#35
 Dibromofluoromethane
 Concen: 49.05 ug/l
 RT: 7.59 min Scan# 1867
 Delta R.T. -0.00 min
 Lab File: VN050413.D
 Acq: 7 Aug 2018 4:17

Tgt Ion:113 Resp: 409165
 Ion Ratio Lower Upper
 113 100
 111 101.3 80.7 121.1
 192 22.4 17.8 26.6

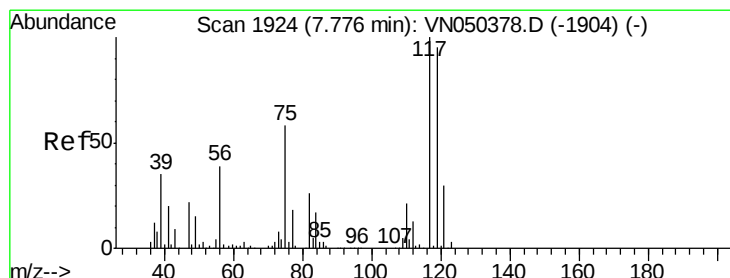
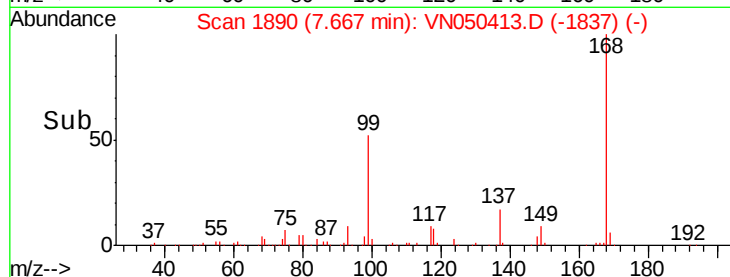
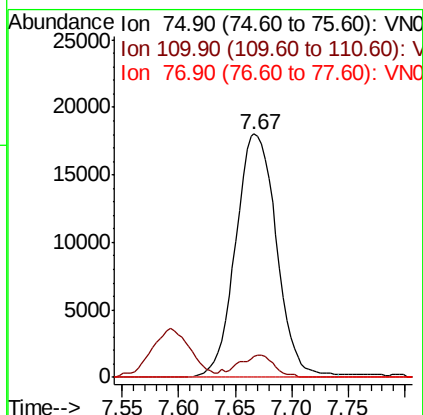
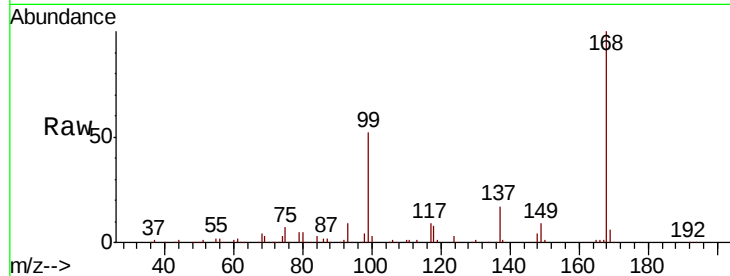




#36
 1,1-Dichloropropene
 Concen: 3.97 ug/l
 RT: 7.67 min Scan# 1890
 Delta R.T. -0.13 min
 Lab File: VN050413.D
 Acq: 7 Aug 2018 4:17

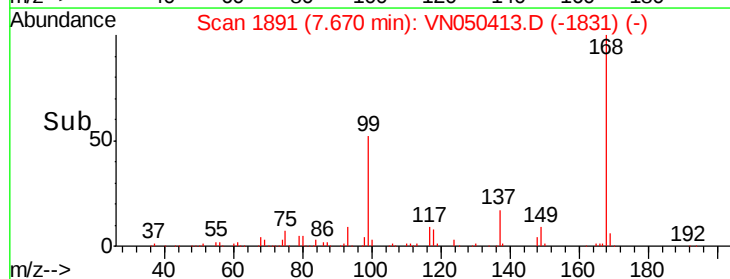
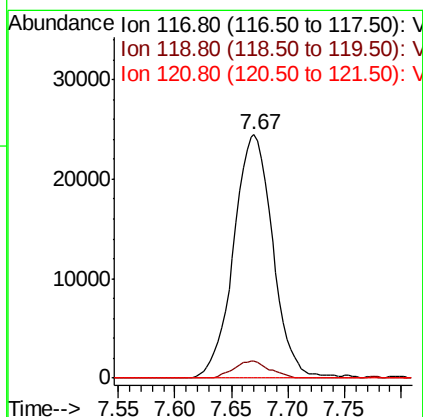
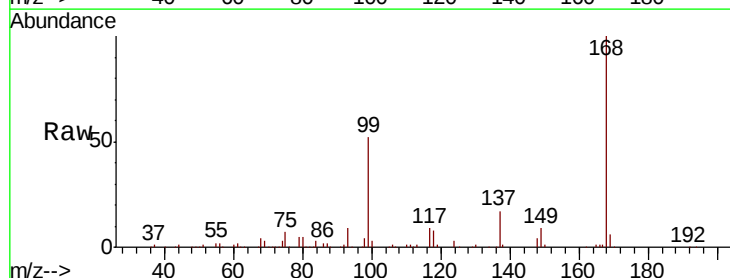
Instrument :
 MSVOA_N
 ClientSampled :
 SOIL-3

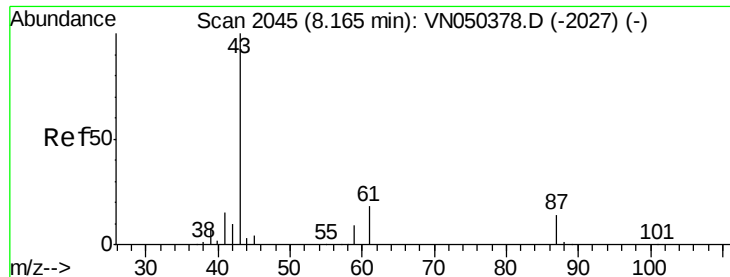
Tot Ion	75	110	77	Resp	Lower	Upper
45405	100	8.1	0.0		18.4	55.2#
					25.3	37.9#



#38
 Carbon Tetrachloride
 Concen: 4.94 ug/l
 RT: 7.67 min Scan# 1891
 Delta R.T. -0.11 min
 Lab File: VN050413.D
 Acq: 7 Aug 2018 4:17

Tgt Ion	117	119	121	Resp	Lower	Upper
58896	100	7.0	0.0		77.4	116.0#
					23.9	35.9#





#43

Isopropyl Acetate

Concen: 13.17 ug/l

RT: 8.17 min Scan# 2046

Delta R.T. 0.00 min

Lab File: VN050413.D

Acq: 7 Aug 2018 4:17

Instrument :

MSVOA_N

ClientSampleId :

SOIL-3

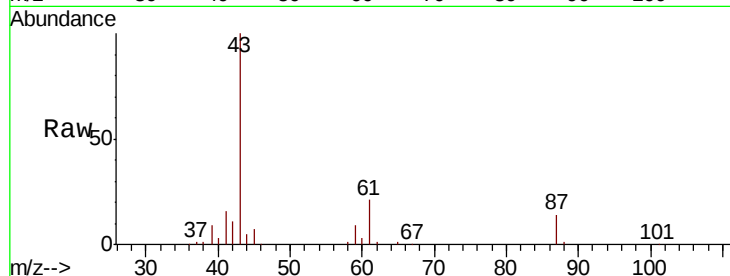
Tot Ion: 43 Resp: 186969

Ion Ratio Lower Upper

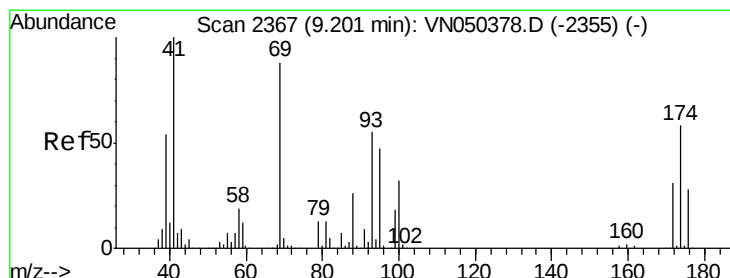
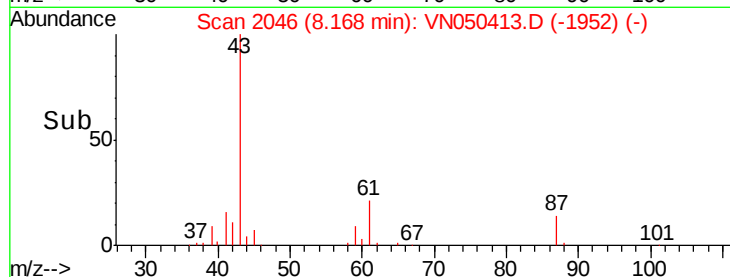
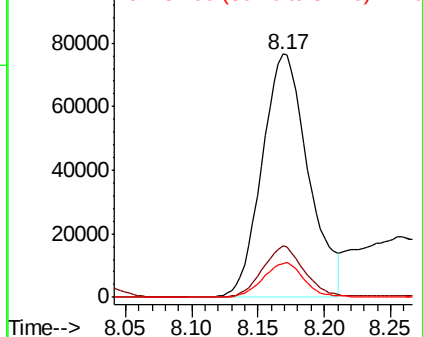
43 100

61 19.0 15.8 23.6

87 12.6 10.3 15.5



Abundance Ion 43.00 (42.70 to 43.70): VN0
Ion 61.00 (60.70 to 61.70): VN0
Ion 87.00 (86.70 to 87.70): VN0



#48

Methyl methacrylate

Concen: 1.06 ug/l

RT: 9.18 min Scan# 2362

Delta R.T. -0.02 min

Lab File: VN050413.D

Acq: 7 Aug 2018 4:17

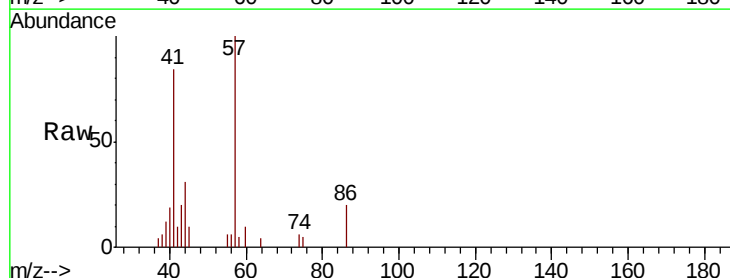
Tgt Ion: 41 Resp: 7537

Ion Ratio Lower Upper

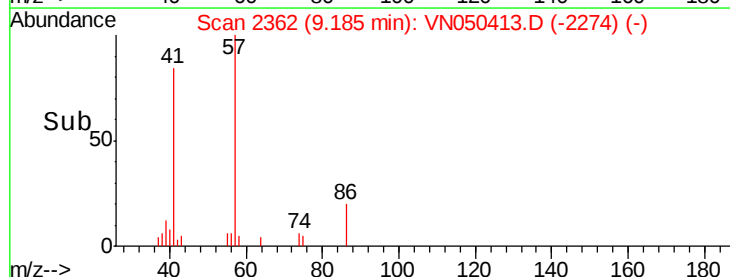
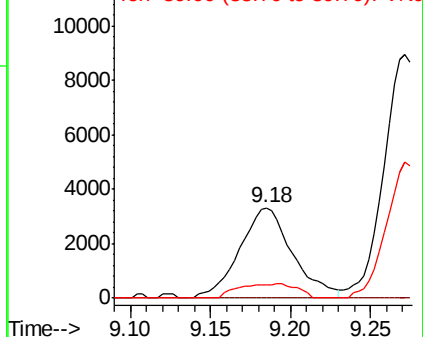
41 100

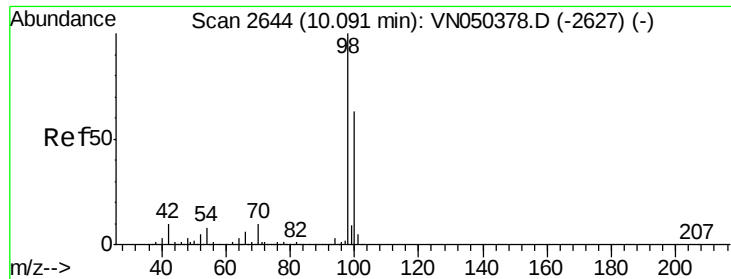
69 0.0 70.6 105.8#

39 17.4 43.9 65.9#



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





#50

Toluene-d8

Concen: 45.89 ug/l

RT: 10.09 min Scan# 2645

Delta R.T. 0.00 min

Lab File: VN050413.D

Acq: 7 Aug 2018 4:17

Instrument :

MSVOA_N

ClientSampled :

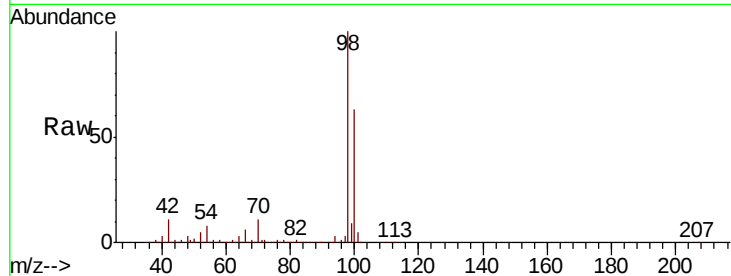
SOIL-3

Tot Ion: 98 Resp: 1439450

Ion Ratio Lower Upper

98 100

100 63.6 50.7 76.1



Abundance Ion 98.00 (97.70 to 98.70): VN050378.D (-2627) (-)

Ion 100.00 (99.70 to 100.70): VN050378.D (-2627) (-)

10.09

800000

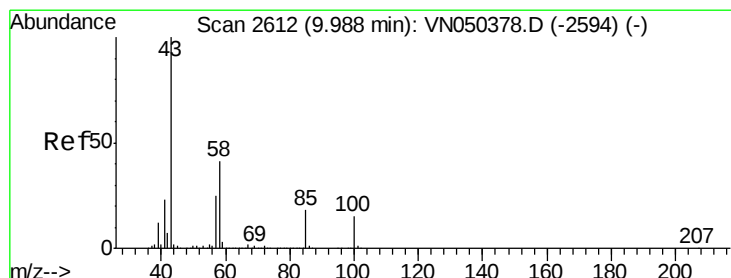
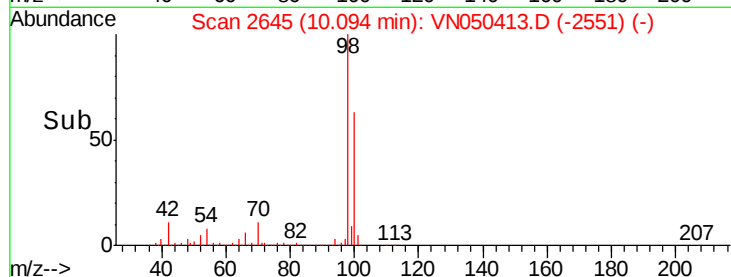
600000

400000

200000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 0.22 ug/l

RT: 9.99 min Scan# 2612

Delta R.T. -0.00 min

Lab File: VN050413.D

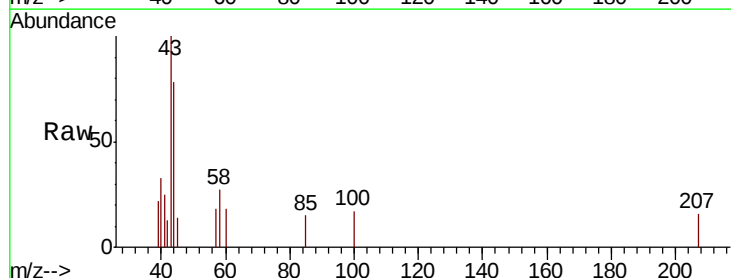
Acq: 7 Aug 2018 4:17

Tgt Ion: 43 Resp: 2246

Ion Ratio Lower Upper

43 100

58 29.5 31.9 47.9#



Abundance Ion 43.00 (42.70 to 43.70): VN050378.D (-2594) (-)

Ion 58.00 (57.70 to 58.70): VN050378.D (-2594) (-)

9.99

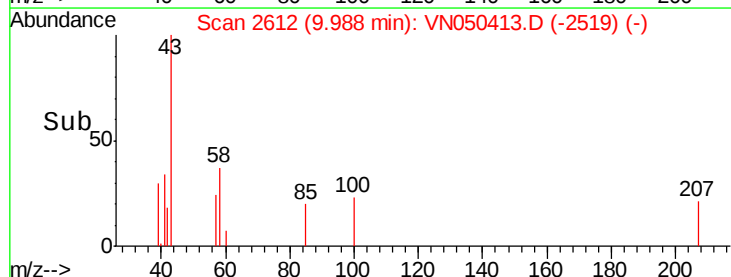
1500

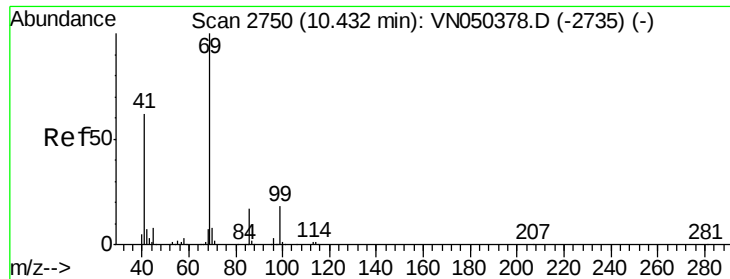
1000

500

0

Time-->

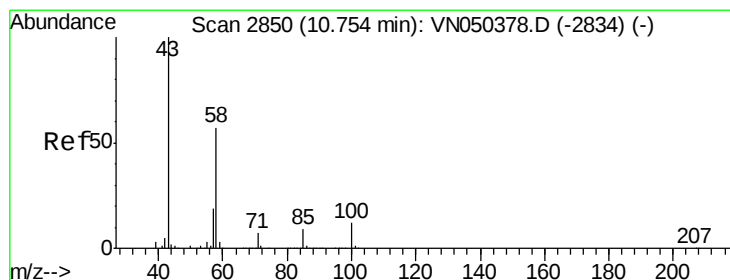
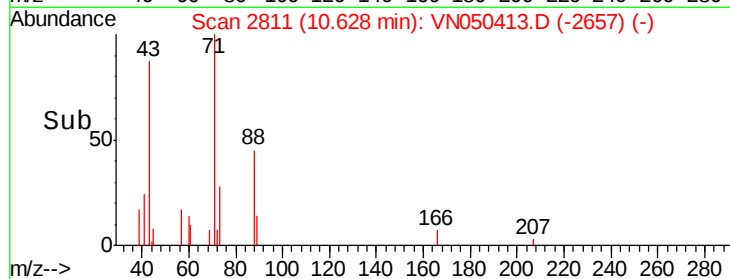
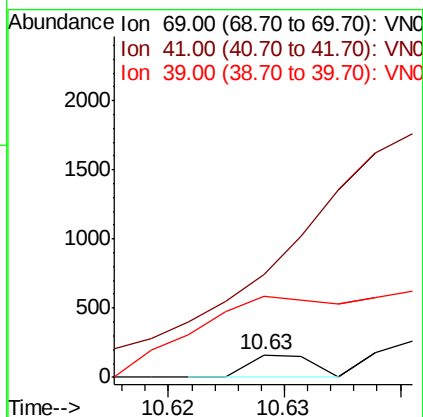
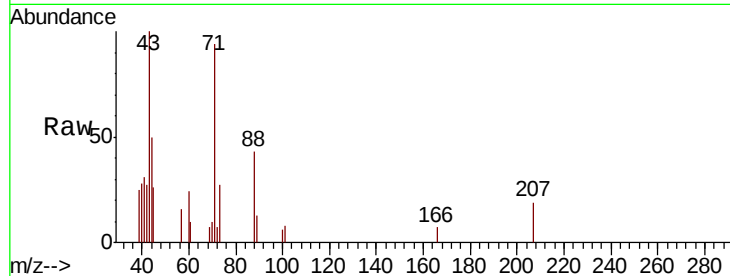




#56
Ethyl methacrylate
Concen: 1.72 ug/l
RT: 10.63 min Scan# 2811
Delta R.T. 0.20 min
Lab File: VN050413.D
Acq: 7 Aug 2018 4:17

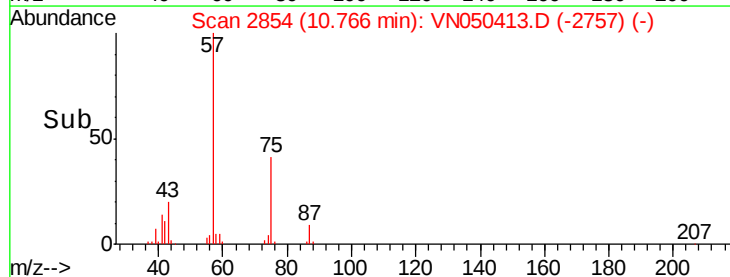
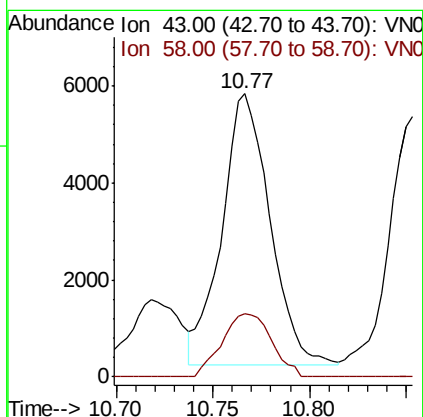
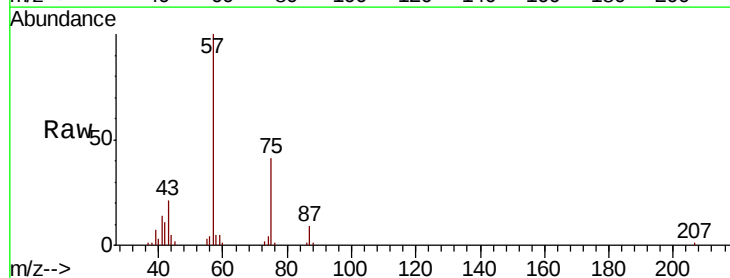
Instrument :
MSVOA_N
ClientSampled :
SOIL-3

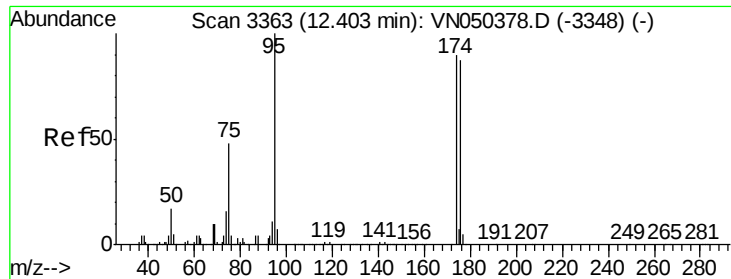
Tot Ion: 69 Resp: 61
Ion Ratio Lower Upper
69 100
41 339.3 51.0 76.4#
39 837.7 26.6 40.0#



#59
2-Hexanone
Concen: 1.35 ug/l
RT: 10.77 min Scan# 2854
Delta R.T. 0.01 min
Lab File: VN050413.D
Acq: 7 Aug 2018 4:17

Tgt Ion: 43 Resp: 9633
Ion Ratio Lower Upper
43 100
58 24.0 27.6 82.7#





#62

4-Bromofluorobenzene

Concen: 36.56 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.00 min

Lab File: VN050413.D

Acq: 7 Aug 2018 4:17

Instrument :

MSVOA_N

ClientSampled :

SOIL-3

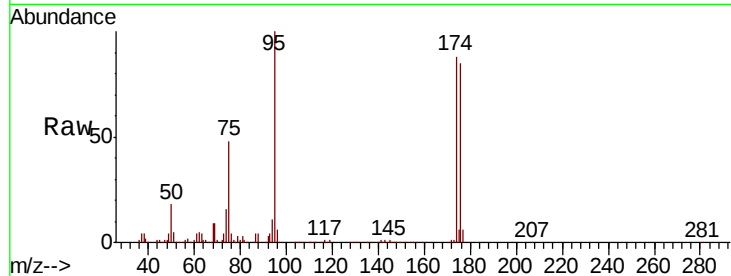
Tot Ion: 95 Resp: 390807

Ion Ratio Lower Upper

95 100

174 90.7 0.0 178.2

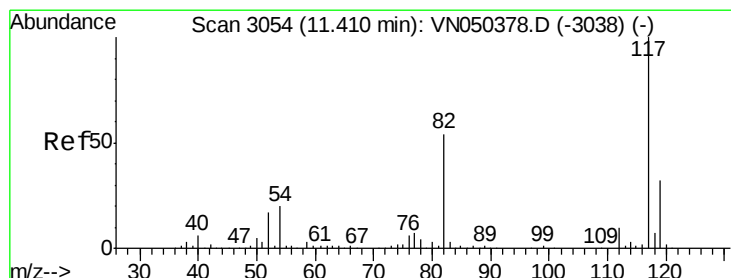
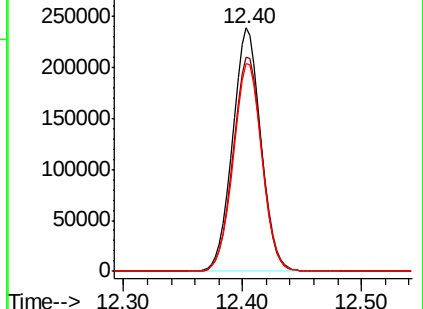
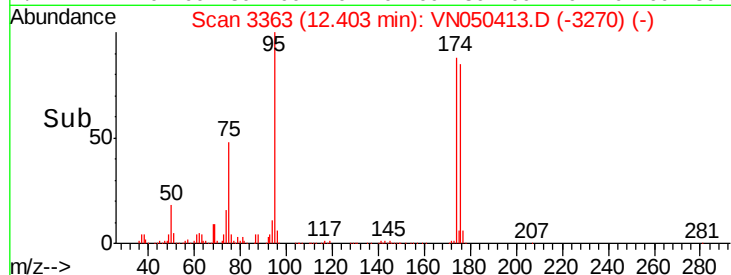
176 86.9 0.0 173.4



Abundance Ion 94.90 (94.60 to 95.60): VN050413.D (-3270) (-)

Ion 173.80 (173.50 to 174.50): VN050413.D (-3270) (-)

Ion 175.80 (175.50 to 176.50): VN050413.D (-3270) (-)



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 11.41 min Scan# 3054

Delta R.T. -0.00 min

Lab File: VN050413.D

Acq: 7 Aug 2018 4:17

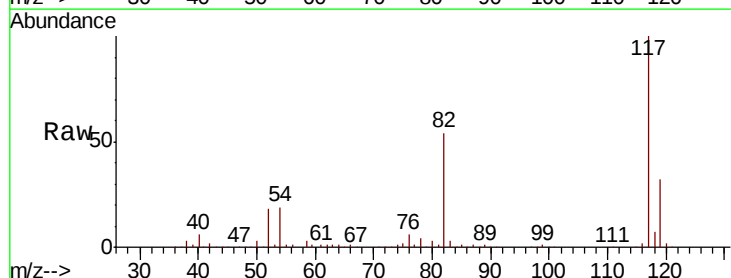
Tgt Ion: 117 Resp: 883864

Ion Ratio Lower Upper

117 100

82 54.2 43.7 65.5

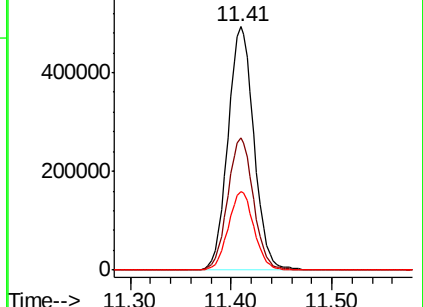
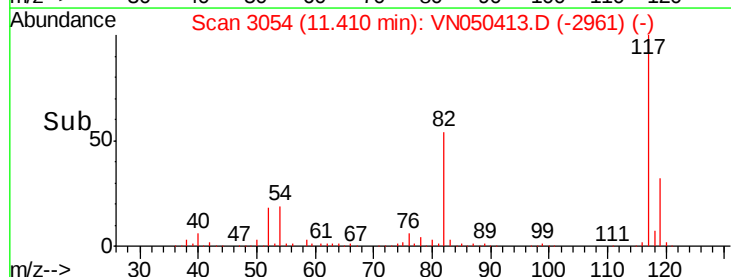
119 32.4 26.1 39.1

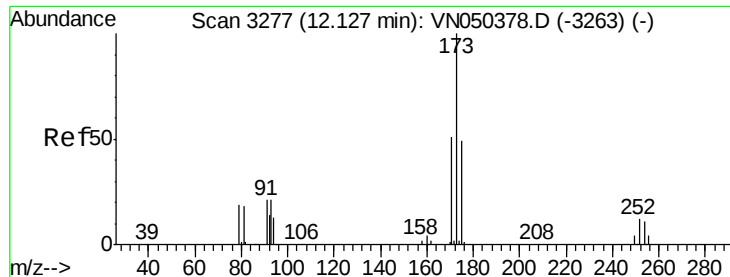


Abundance Ion 116.90 (116.60 to 117.60): VN050413.D (-2961) (-)

Ion 82.00 (81.70 to 82.70): VN050413.D (-2961) (-)

Ion 118.90 (118.60 to 119.60): VN050413.D (-2961) (-)





#71

Bromoform

Concen: 0.52 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.28 min

Lab File: VN050413.D

Acq: 7 Aug 2018 4:17

Instrument :

MSVOA_N

ClientSampled :

SOIL-3

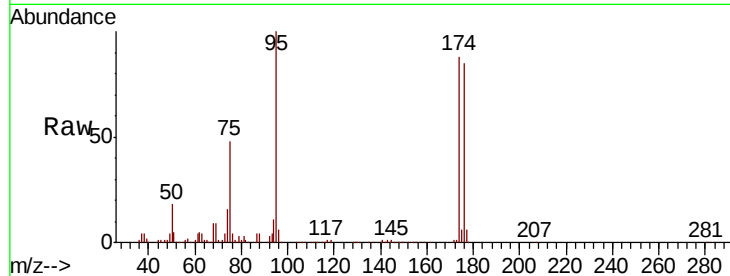
Tot Ion:173 Resp: 3051

Ion Ratio Lower Upper

173 100

175 706.3 24.1 72.2#

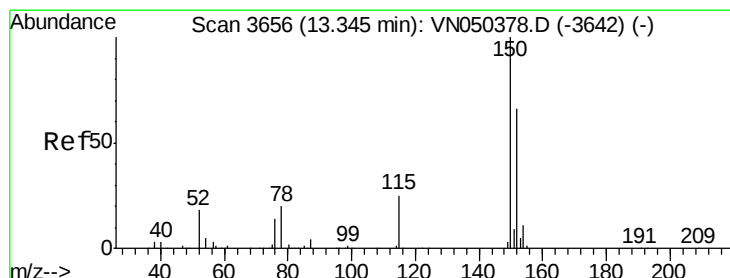
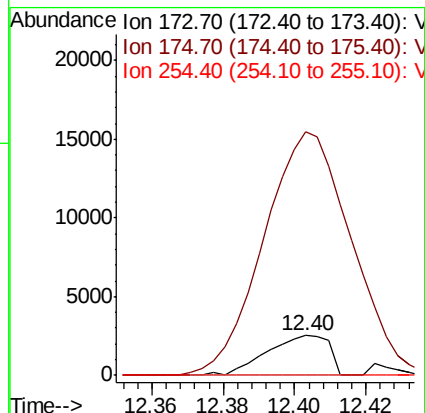
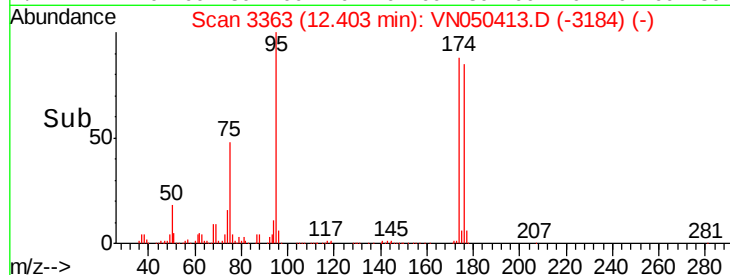
254 0.0 0.2 0.2#



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: 50.00 ug/l

RT: 13.35 min Scan# 3656

Delta R.T. -0.00 min

Lab File: VN050413.D

Acq: 7 Aug 2018 4:17

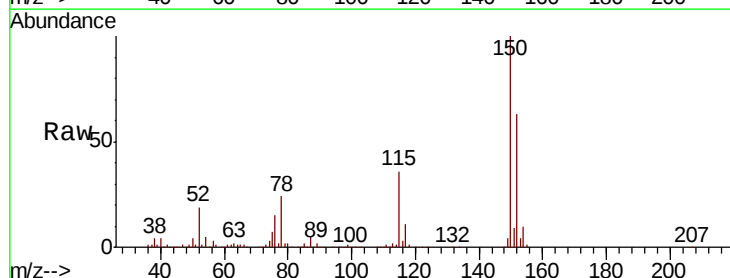
Tgt Ion:152 Resp: 323833

Ion Ratio Lower Upper

152 100

115 56.1 27.8 83.3

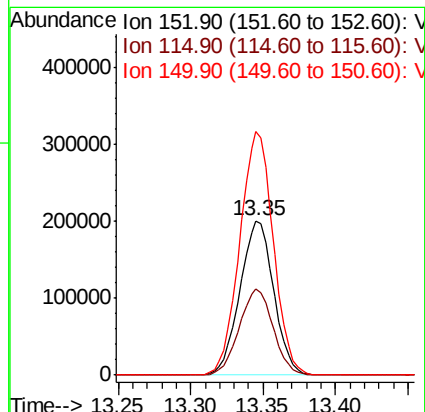
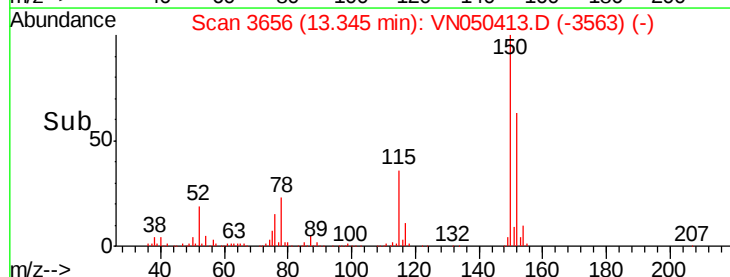
150 156.6 0.0 348.6

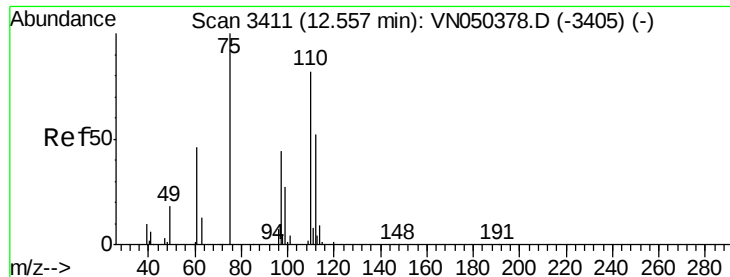


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 32.42 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.15 min

Lab File: VN050413.D

Acq: 7 Aug 2018 4:17

Instrument :

MSVOA_N

ClientSampleId :

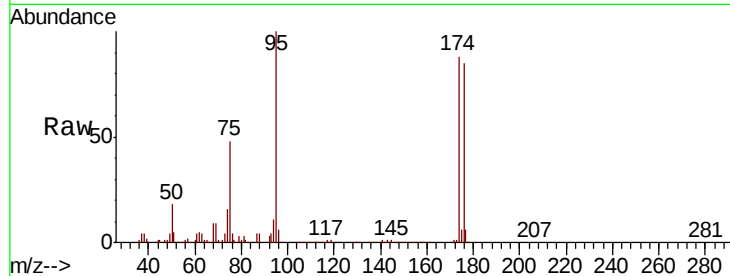
SOIL-3

Tot Ion: 75 Resp: 190014

Ion Ratio Lower Upper

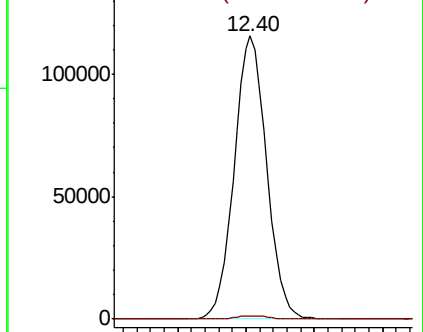
75 100

77 1.3 0.0 0.0#

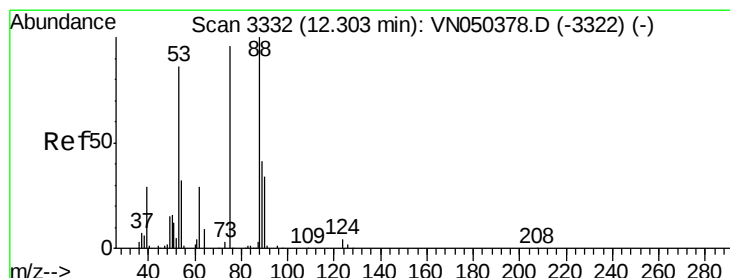
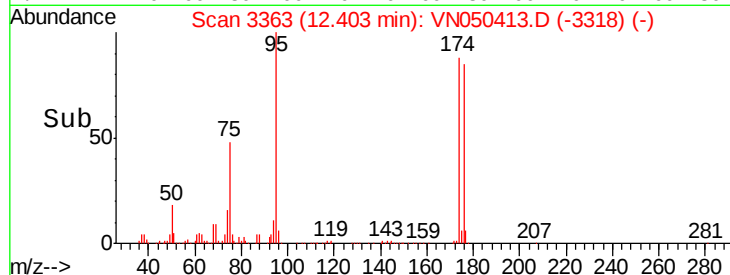


Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 77.00 (76.70 to 77.70): VNO



Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 113.90 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.10 min

Lab File: VN050413.D

Acq: 7 Aug 2018 4:17

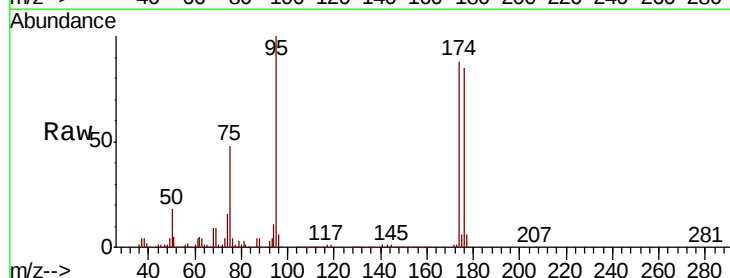
Tgt Ion: 75 Resp: 190014

Ion Ratio Lower Upper

75 100

53 0.3 73.5 110.3#

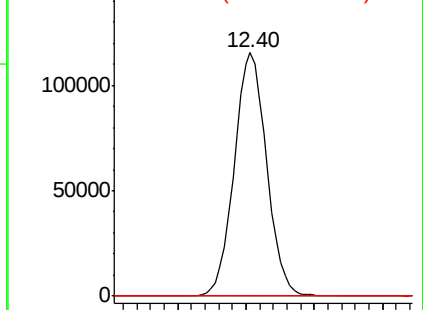
89 0.0 36.0 54.0#



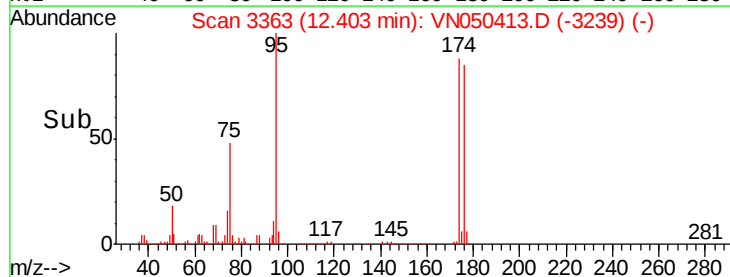
Abundance Ion 74.90 (74.60 to 75.60): VNO

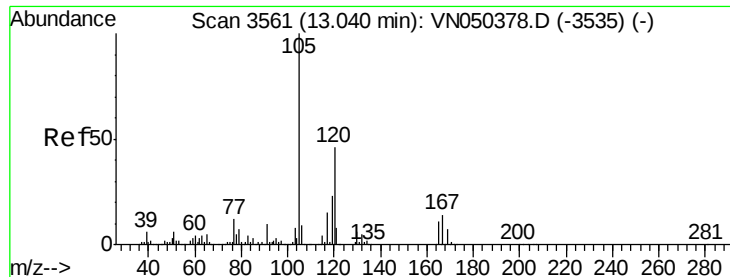
Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO



Time-->

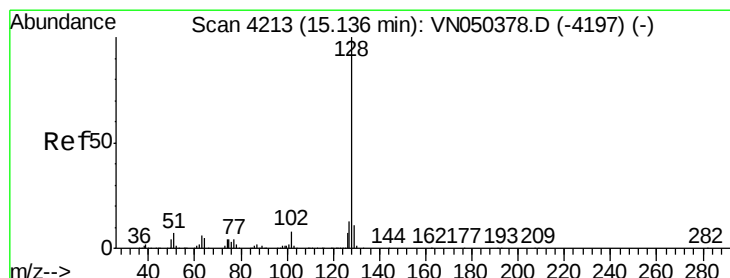
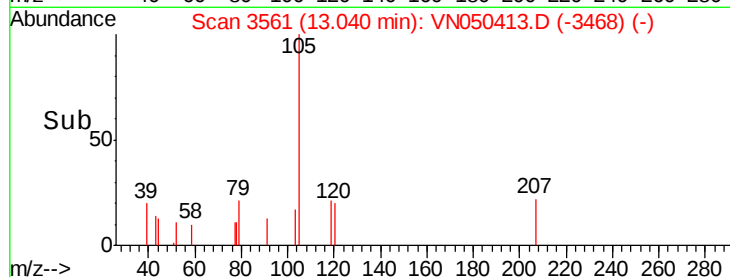
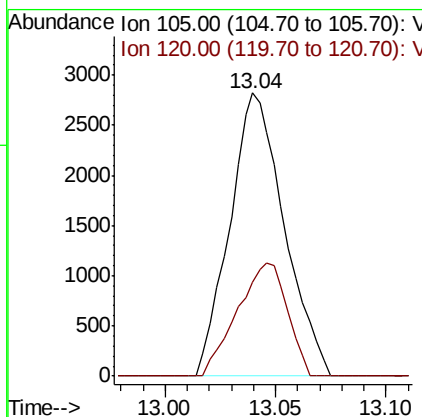
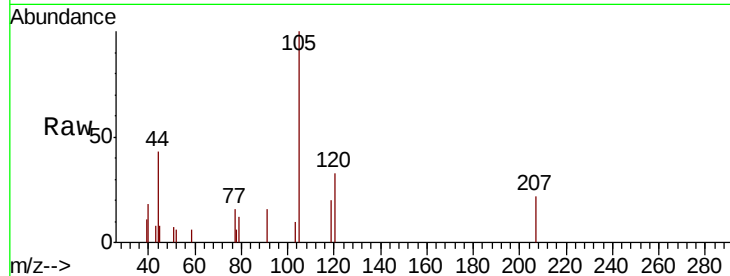




#84
 1,2,4-Trimethylbenzene
 Concen: 0.24 ug/l
 RT: 13.04 min Scan# 3561
 Delta R.T. -0.00 min
 Lab File: VN050413.D
 Acq: 7 Aug 2018 4:17

Instrument :
 MSVOA_N
 ClientSampleId :
 SOIL-3

Tot Ion:105 Resp: 4804
 Ion Ratio Lower Upper
 105 100
 120 36.8 22.9 68.7



#95
 Naphthalene
 Concen: 4.24 ug/l
 RT: 15.13 min Scan# 4212
 Delta R.T. -0.00 min
 Lab File: VN050413.D
 Acq: 7 Aug 2018 4:17

Tgt Ion:128 Resp: 10415
 Ion Ratio Lower Upper
 128 100
 127 15.2 10.4 15.6
 129 10.4 8.8 13.2

