

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN081018\
 Data File : VN050556.D
 Acq On : 11 Aug 2018 7:52
 Operator : MD\SY
 Sample : J4405-04
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 53 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 EXCAVATION-SOIL

Quant Time: Aug 13 00:46:53 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	640798	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1059298	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	924504	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	358725	50.00	ug/l	0.00

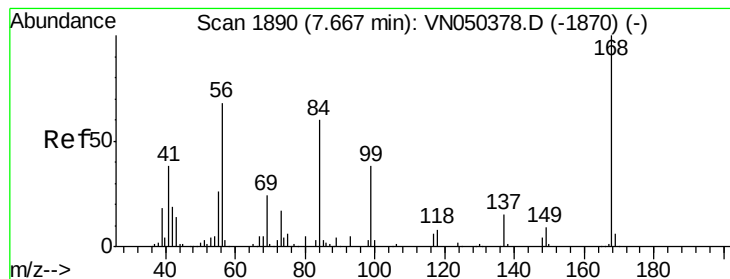
System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	440476	51.45	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.90%	
35) Dibromofluoromethane	7.59	113	410547	48.30	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.60%	
50) Toluene-d8	10.09	98	1460738	45.71	ug/l	0.00
Spiked Amount	50.000		Recovery	=	91.42%	
62) 4-Bromofluorobenzene	12.40	95	415143	38.11	ug/l	0.00
Spiked Amount	50.000		Recovery	=	76.22%	

Target Compounds

						Qvalue
3) Chloromethane	2.06	50	2462	Below Cal		97
5) Bromomethane	2.57	94	3430	0.94 ug/l		90
11) Tert butyl alcohol	4.79	59	294	0.43 ug/l #		72
16) Acetone	3.83	43	17475	6.49 ug/l		97
18) Methyl Acetate	4.33	43	15897	2.21 ug/l #		71
20) Methylene Chloride	4.55	84	107818	12.65 ug/l		98
25) 2-Butanone	6.85	43	3876	0.91 ug/l		94
29) Tetrahydrofuran	7.23	42	1349	0.59 ug/l #		69
30) Chloroform	7.37	83	9445	0.68 ug/l		98
31) Cyclohexane	7.67	56	10912	0.26 ug/l #		1
36) 1,1-Dichloropropene	7.67	75	43865	3.77 ug/l #		50
38) Carbon Tetrachloride	7.67	117	57391	4.73 ug/l #		16
43) Isopropyl Acetate	8.17	43	258676	17.88 ug/l		95
48) Methyl methacrylate	9.18	41	7643	1.05 ug/l #		16
51) 4-Methyl-2-Pentanone	9.98	43	2108	0.20 ug/l #		79
56) Ethyl methacrylate	10.27	69	176	1.72 ug/l #		1
59) 2-Hexanone	10.77	43	16994	2.34 ug/l #		59
71) Bromoform	12.40	173	1427	0.23 ug/l #		29
76) 1,2,3-Trichloropropane	12.40	75	198537	30.58 ug/l #		100
81) trans-1,4-Dichloro-2-buten	12.40	75	198537	107.43 ug/l #		13
84) 1,2,4-Trimethylbenzene	13.04	105	5856	0.26 ug/l		99
85) sec-Butylbenzene	13.04	105	5856	0.23 ug/l #		56
95) Naphthalene	15.14	128	54254	6.52 ug/l		98

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



#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. 0.00 min

Lab File: VN050556.D

Acq: 11 Aug 2018 7:52

Instrument :

MSVOA_N

ClientSampleId :

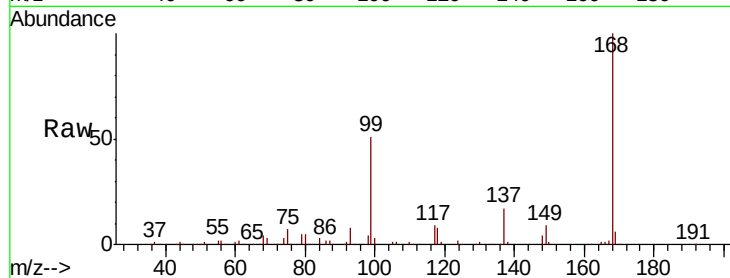
EXCAVATION-SOIL

Tot Ion:168 Resp: 640798

Ion Ratio Lower Upper

168 100

99 50.8 40.0 60.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

7.67

250000

200000

150000

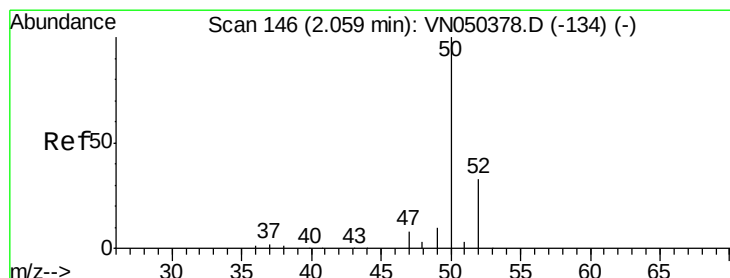
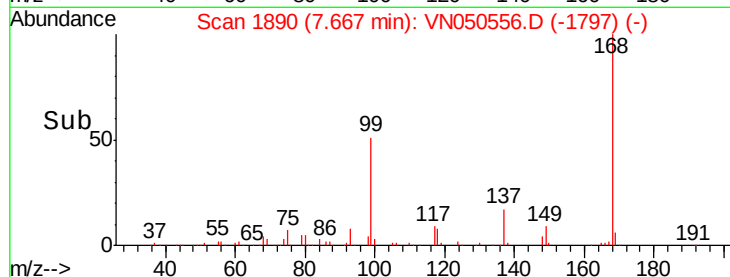
100000

50000

0

7.60 7.70 7.80

Time-->



#3

Chloromethane

Concen: Below Cal

RT: 2.06 min Scan# 145

Delta R.T. -0.00 min

Lab File: VN050556.D

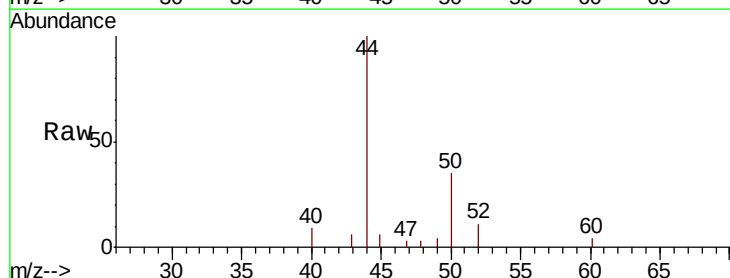
Acq: 11 Aug 2018 7:52

Tgt Ion: 50 Resp: 2462

Ion Ratio Lower Upper

50 100

52 30.7 25.9 38.9



Abundance Ion 49.90 (49.60 to 50.60): VN0

Ion 51.90 (51.60 to 52.60): VN0

2.06

2000

1500

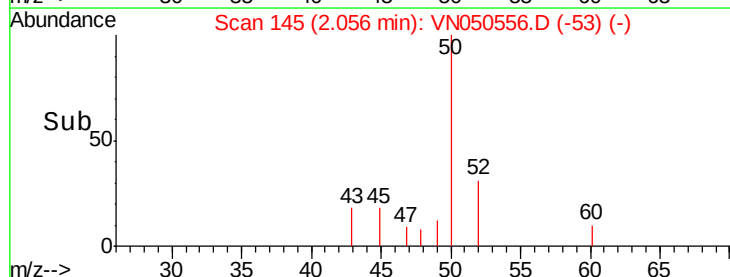
1000

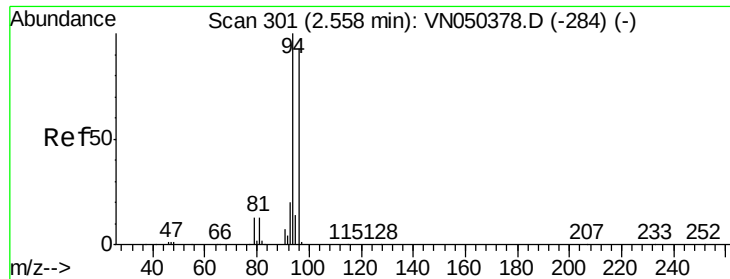
500

0

2.05 2.10

Time-->





#5

Bromomethane

Concen: 0.94 ug/l

RT: 2.57 min Scan# 305

Delta R.T. 0.01 min

Lab File: VN050556.D

Acq: 11 Aug 2018 7:52

Instrument :

MSVOA_N

ClientSampleId :

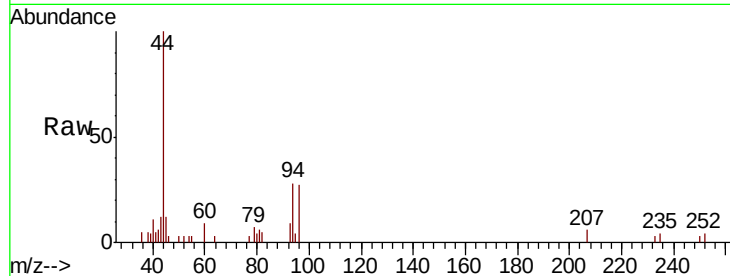
EXCAVATION-SOIL

Tot Ion: 94 Resp: 3430

Ion Ratio Lower Upper

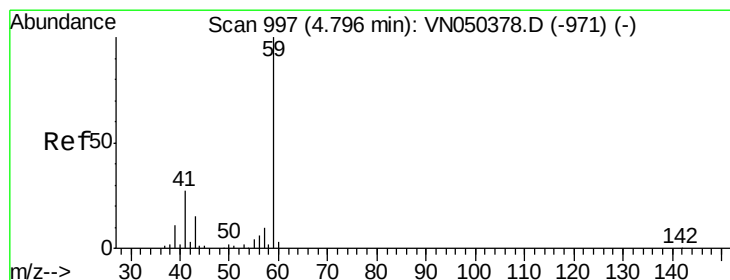
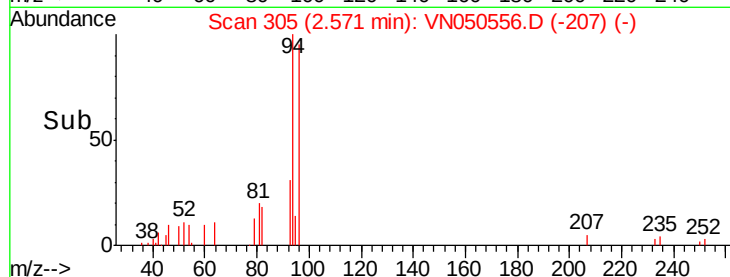
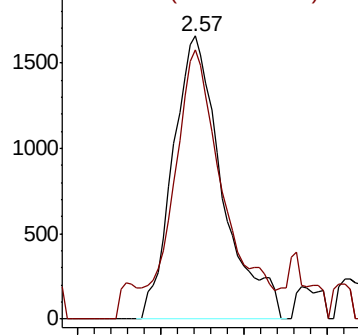
94 100

96 83.9 74.6 112.0



Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0



#11

Tert butyl alcohol

Concen: 0.43 ug/l

RT: 4.79 min Scan# 994

Delta R.T. -0.01 min

Lab File: VN050556.D

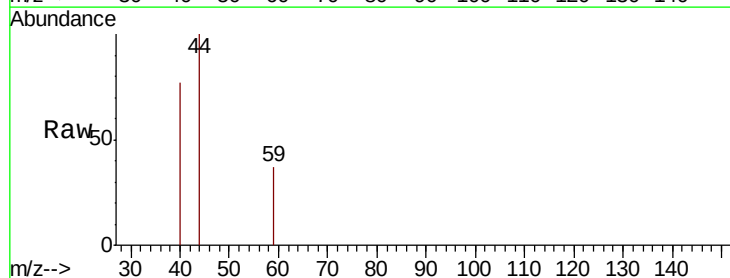
Acq: 11 Aug 2018 7:52

Tgt Ion: 59 Resp: 294

Ion Ratio Lower Upper

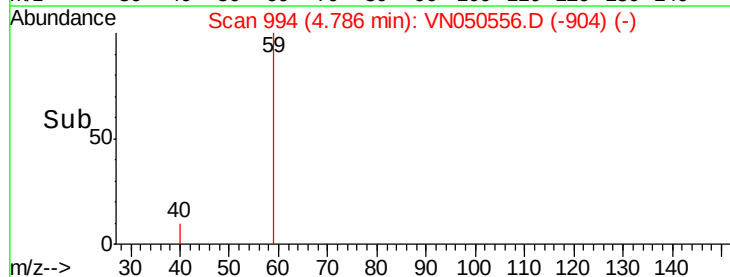
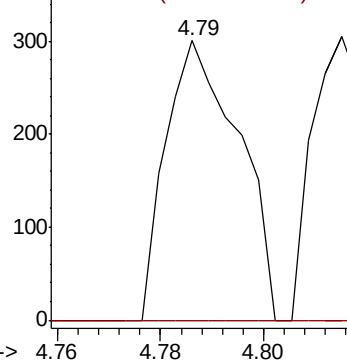
59 100

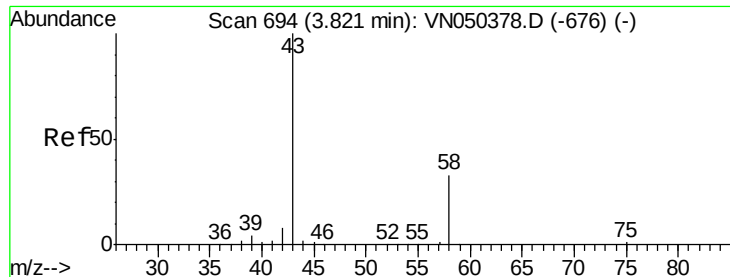
57 0.0 8.5 12.7#



Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 57.00 (56.70 to 57.70): VN0





#16

Acetone

Concen: 6.49 ug/l

RT: 3.83 min Scan# 697

Delta R.T. 0.01 min

Lab File: VN050556.D

Acq: 11 Aug 2018 7:52

Instrument :

MSVOA_N

ClientSampleId :

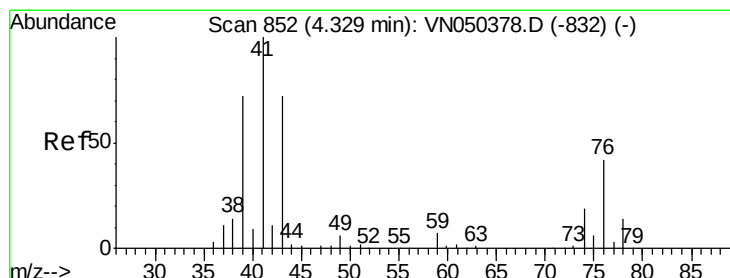
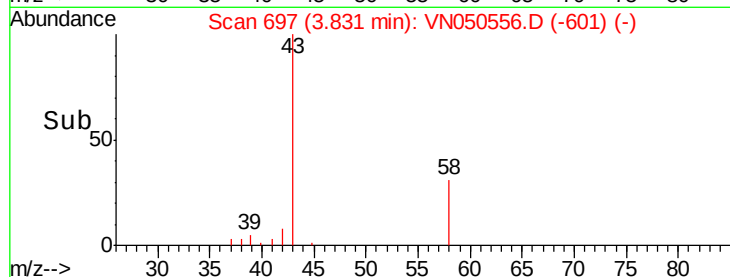
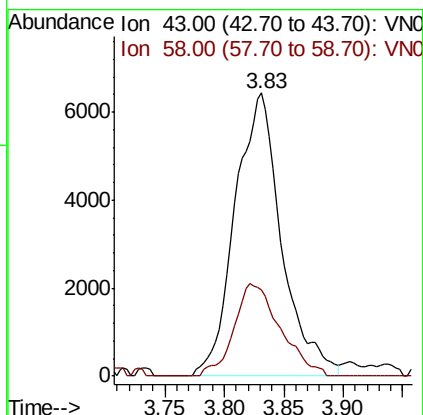
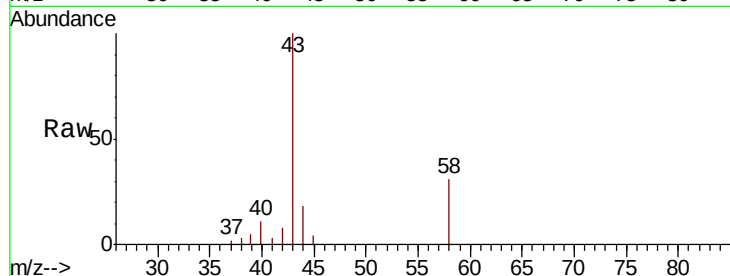
EXCAVATION-SOIL

Tot Ion: 43 Resp: 17475

Ion Ratio Lower Upper

43 100

58 30.5 25.8 38.8



#18

Methyl Acetate

Concen: 2.21 ug/l

RT: 4.33 min Scan# 852

Delta R.T. 0.00 min

Lab File: VN050556.D

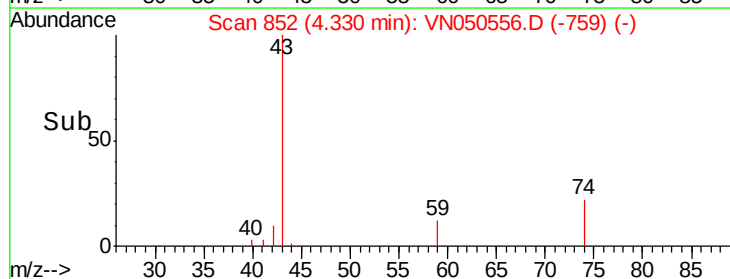
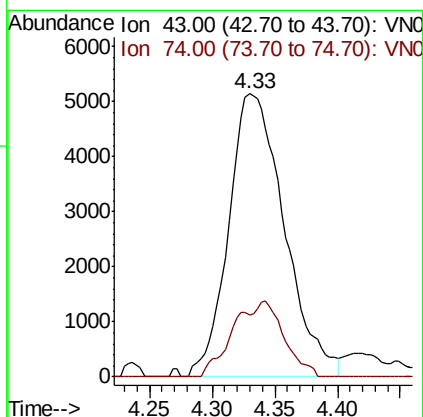
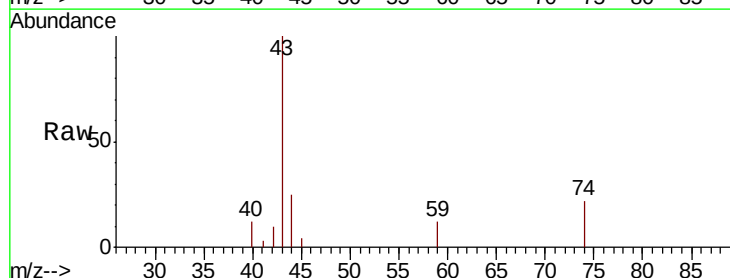
Acq: 11 Aug 2018 7:52

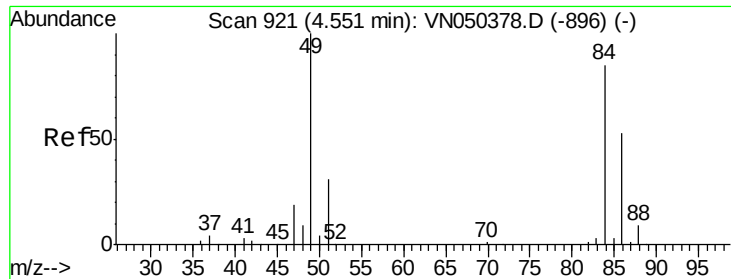
Tgt Ion: 43 Resp: 15897

Ion Ratio Lower Upper

43 100

74 9.9 19.2 28.8#

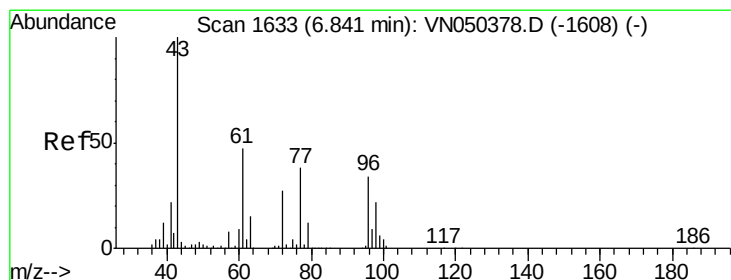
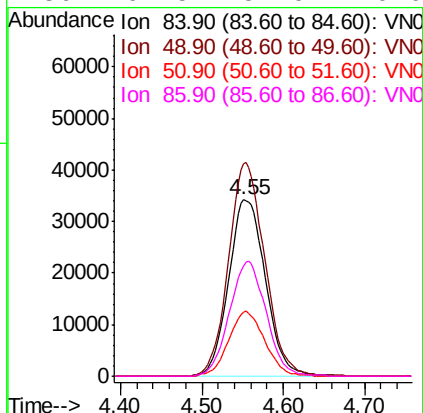
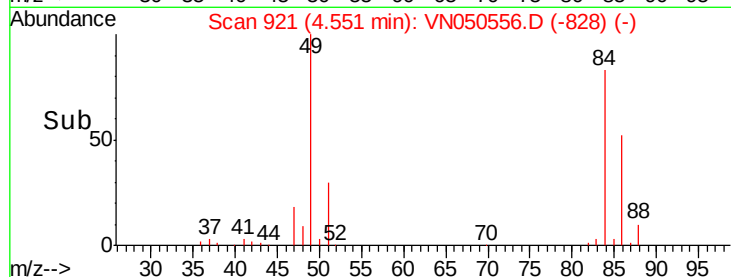
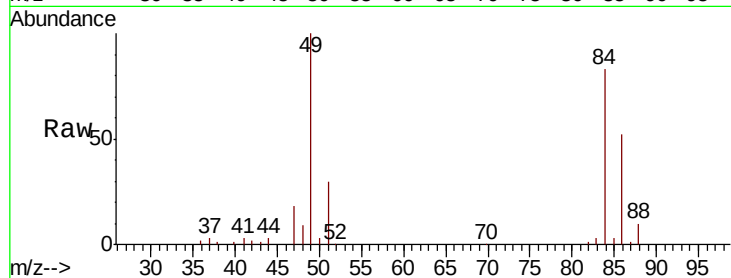




#20
Methvlene Chloride
Concen: 12.65 ug/l
RT: 4.55 min Scan# 921
Delta R.T. 0.00 min
Lab File: VN050556.D
Acq: 11 Aug 2018 7:52

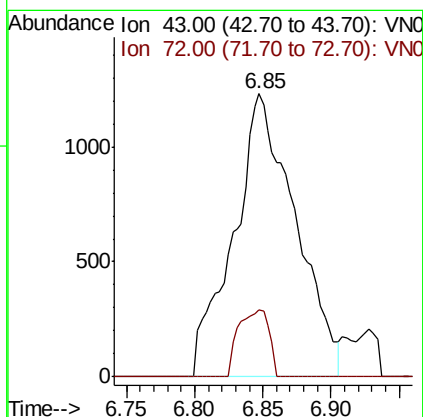
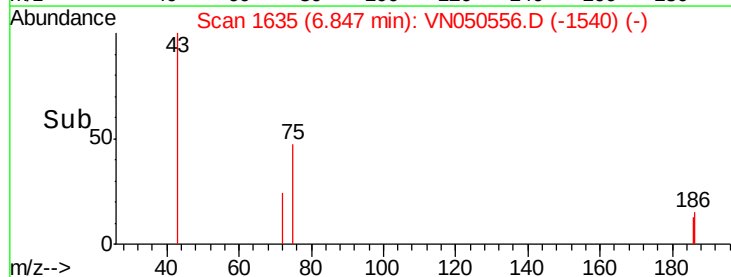
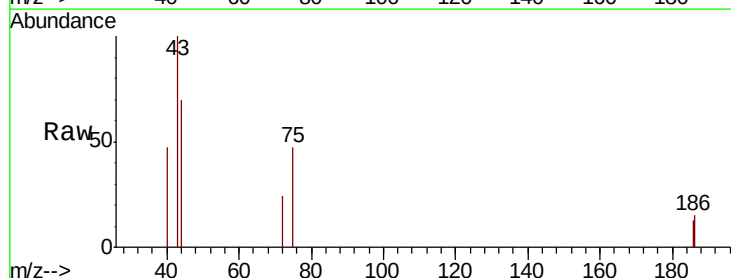
Instrument :
MSVOA_N
ClientSampleId :
EXCAVATION-SOIL

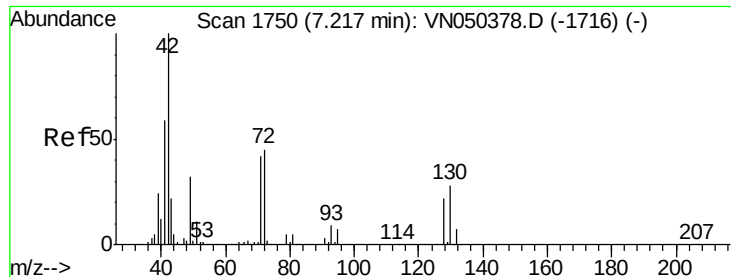
Tot Ion:	84	Resp:	107818
Ion	Ratio	Lower	Upper
84	100		
49	120.6	94.8	142.2
51	36.5	28.3	42.5
86	62.5	51.0	76.6



#25
2-Butanone
Concen: 0.91 ug/l
RT: 6.85 min Scan# 1635
Delta R.T. 0.01 min
Lab File: VN050556.D
Acq: 11 Aug 2018 7:52

Tgt Ion:	43	Resp:	3876
Ion	Ratio	Lower	Upper
43	100		
72	23.9	21.5	32.3





#29

Tetrahydrofuran

Concen: 0.59 ug/l

RT: 7.23 min Scan# 1754

Delta R.T. 0.01 min

Lab File: VN050556.D

Acq: 11 Aug 2018 7:52

Instrument :

MSVOA_N

ClientSampleId :

EXCAVATION-SOIL

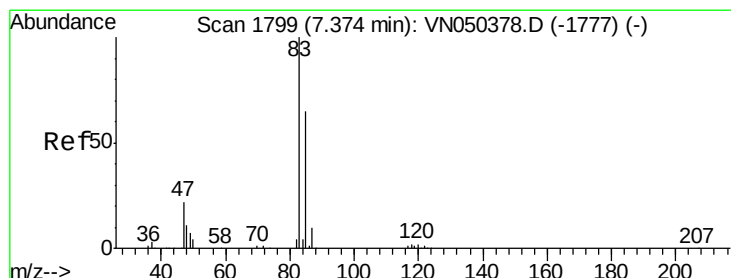
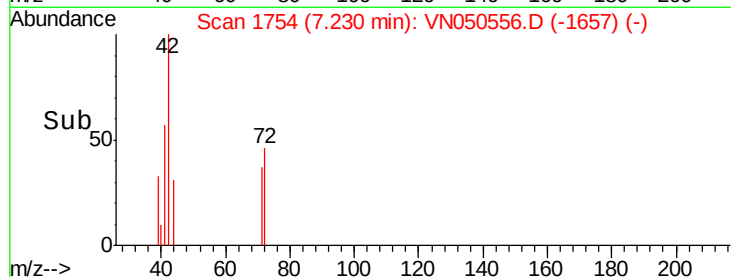
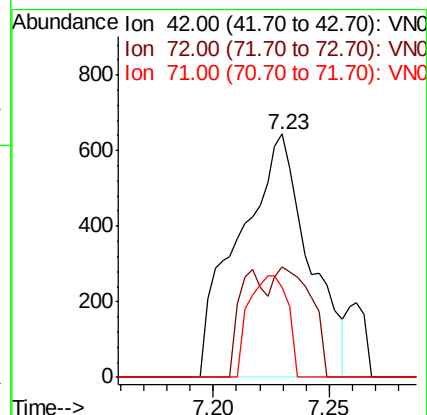
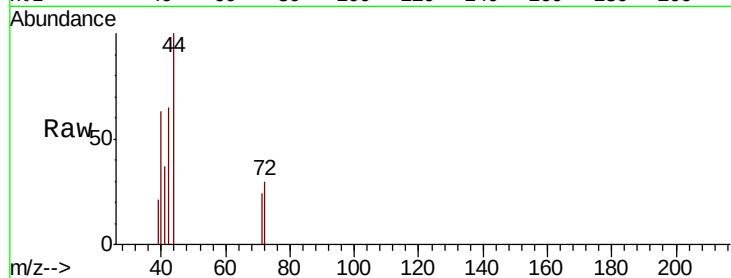
Tot Ion: 42 Resp: 1349

Ion Ratio Lower Upper

42 100

72 24.8 35.9 53.9#

71 23.0 33.7 50.5#



#30

Chloroform

Concen: 0.68 ug/l

RT: 7.37 min Scan# 1799

Delta R.T. 0.00 min

Lab File: VN050556.D

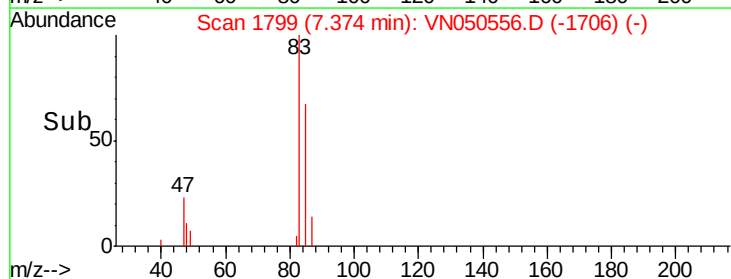
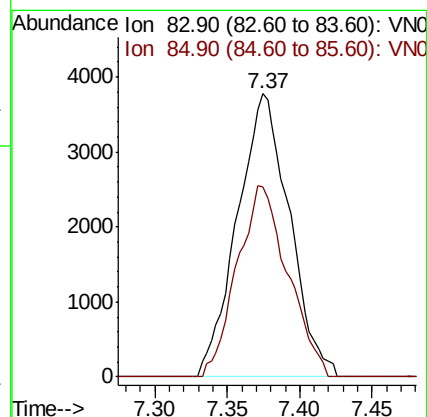
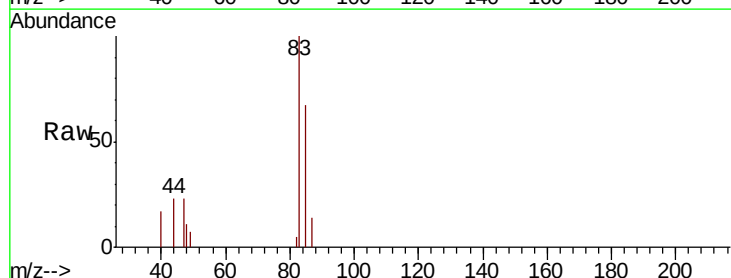
Acq: 11 Aug 2018 7:52

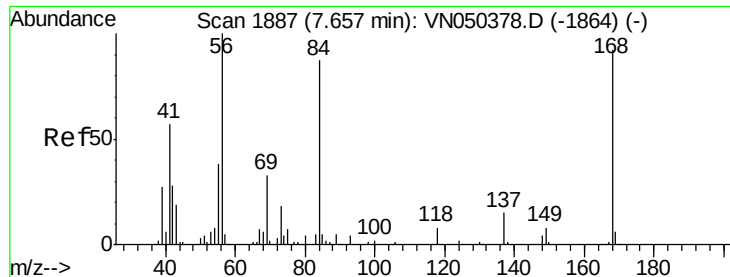
Tgt Ion: 83 Resp: 9445

Ion Ratio Lower Upper

83 100

85 66.9 52.5 78.7

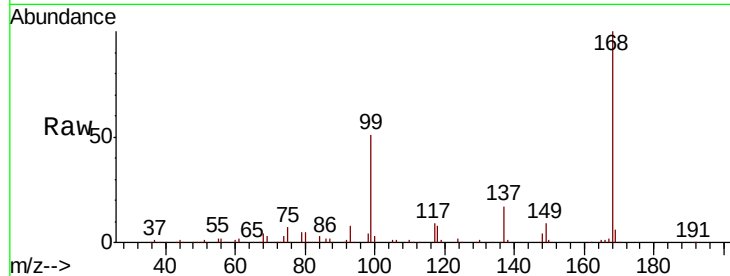




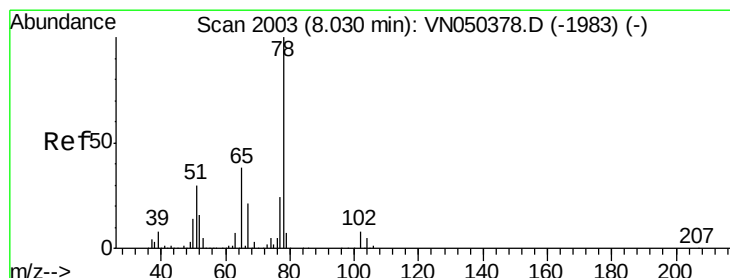
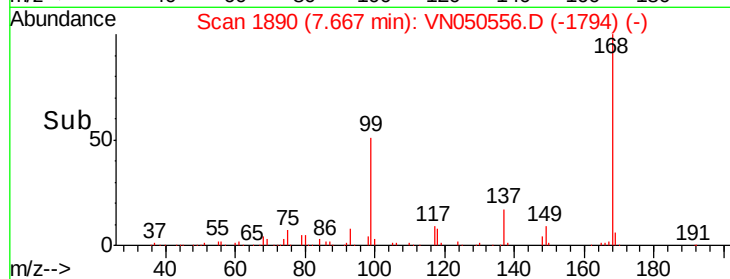
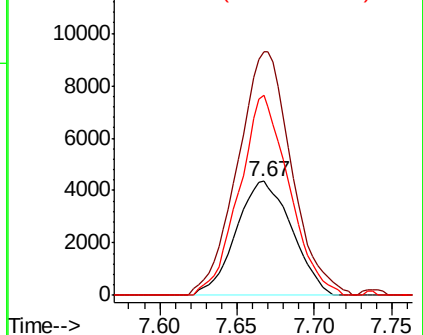
#31
Cyclohexane
Concen: 0.26 ug/l
RT: 7.67 min Scan# 1890
Delta R.T. 0.01 min
Lab File: VN050556.D
Acq: 11 Aug 2018 7:52

Instrument :
MSVOA_N
ClientSampleId :
EXCAVATION-SOIL

Tot Ion: 56 Resp: 10912
Ion Ratio Lower Upper
56 100
69 213.9 26.2 39.4#
84 175.9 67.4 101.0#

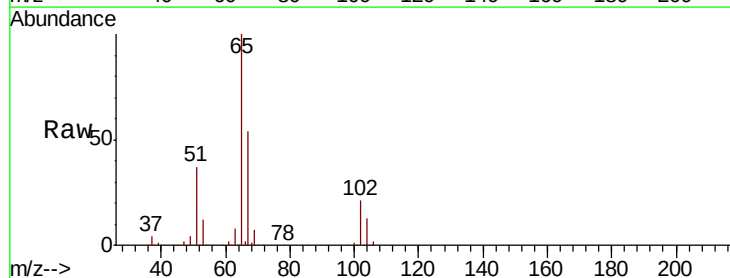


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

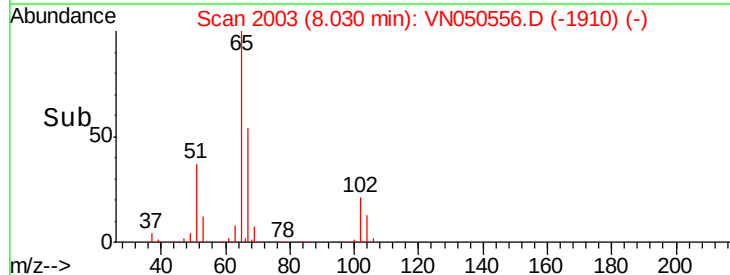
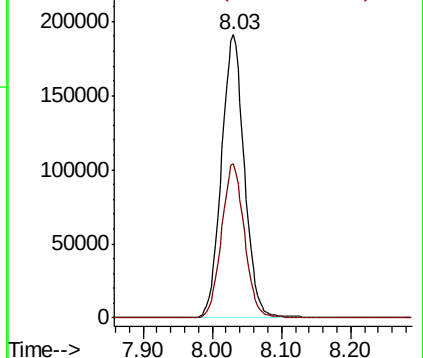


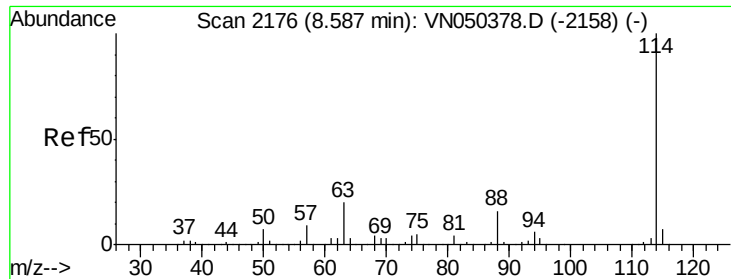
#33
1,2-Dichloroethane-d4
Concen: 51.45 ug/l
RT: 8.03 min Scan# 2003
Delta R.T. 0.00 min
Lab File: VN050556.D
Acq: 11 Aug 2018 7:52

Tgt Ion: 65 Resp: 440476
Ion Ratio Lower Upper
65 100
67 54.4 0.0 108.4



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

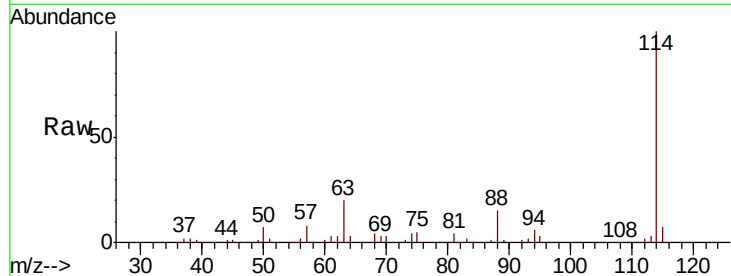




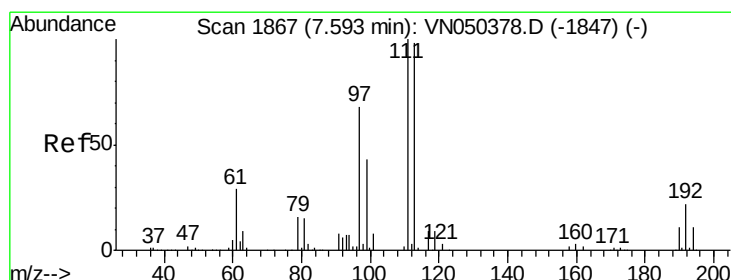
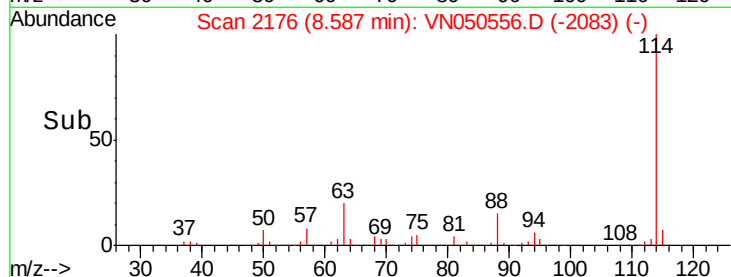
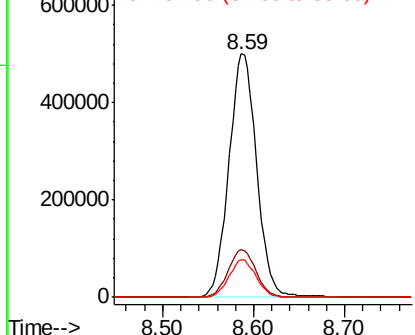
#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2176
 Delta R.T. 0.00 min
 Lab File: VN050556.D
 Acq: 11 Aug 2018 7:52

Instrument :
 MSVOA_N
 ClientSampleId :
 EXCAVATION-SOIL

Tot Ion:114 Resp: 1059298
 Ion Ratio Lower Upper
 114 100
 63 19.7 0.0 40.0
 88 15.4 0.0 31.2

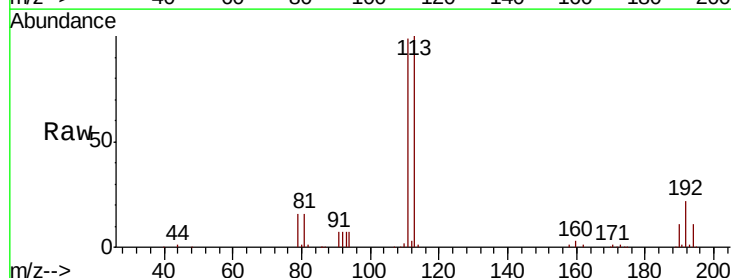


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

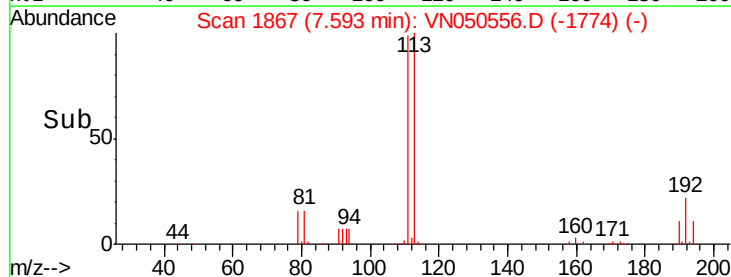
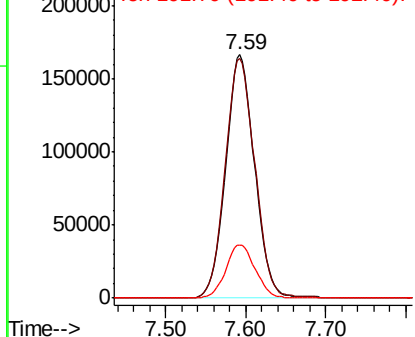


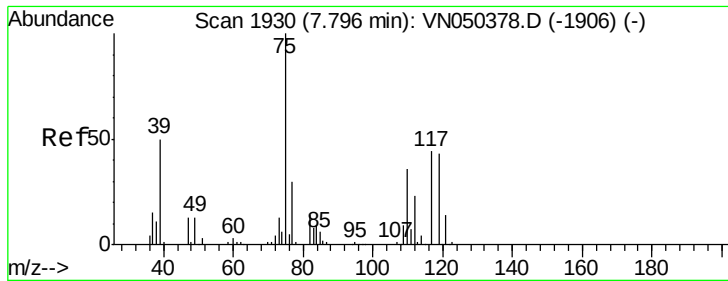
#35
 Dibromofluoromethane
 Concen: 48.30 ug/l
 RT: 7.59 min Scan# 1867
 Delta R.T. 0.00 min
 Lab File: VN050556.D
 Acq: 11 Aug 2018 7:52

Tgt Ion:113 Resp: 410547
 Ion Ratio Lower Upper
 113 100
 111 101.1 80.7 121.1
 192 22.2 17.8 26.6



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

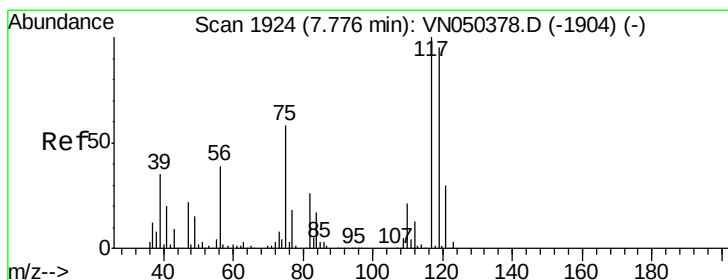
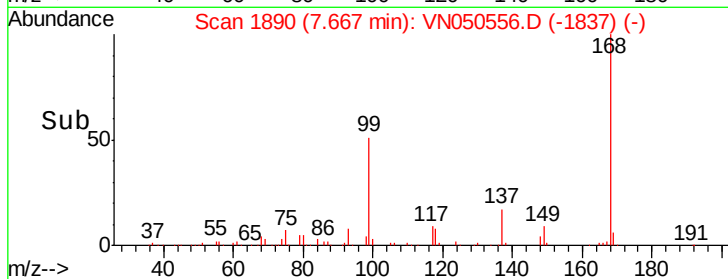
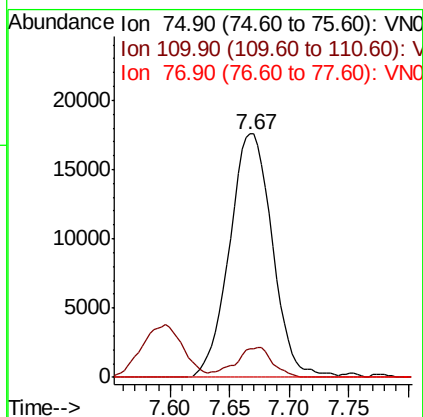
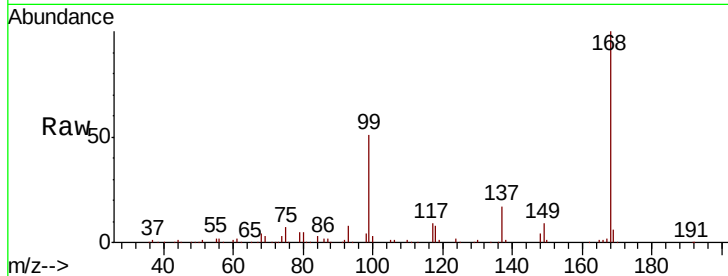




#36
 1,1-Dichloropropene
 Concen: 3.77 ug/l
 RT: 7.67 min Scan# 1890
 Delta R.T. -0.13 min
 Lab File: VN050556.D
 Acq: 11 Aug 2018 7:52

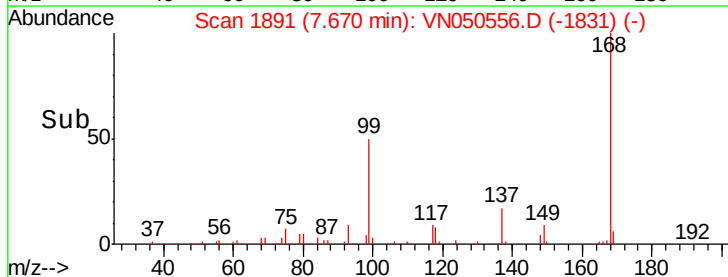
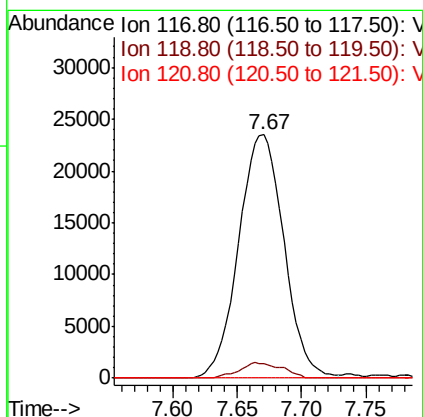
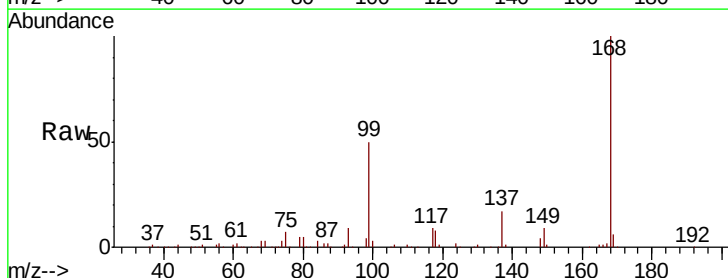
Instrument :
 MSVOA_N
 ClientSampleId :
 EXCAVATION-SOIL

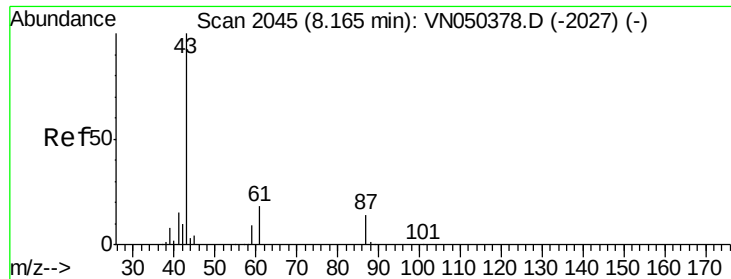
Tot Ion: 75 Resp: 43865
 Ion Ratio Lower Upper
 75 100
 110 10.7 18.4 55.2#
 77 0.0 25.3 37.9#



#38
 Carbon Tetrachloride
 Concen: 4.73 ug/l
 RT: 7.67 min Scan# 1891
 Delta R.T. -0.11 min
 Lab File: VN050556.D
 Acq: 11 Aug 2018 7:52

Tgt Ion: 117 Resp: 57391
 Ion Ratio Lower Upper
 117 100
 119 6.0 77.4 116.0#
 121 0.0 23.9 35.9#





#43

Isopropyl Acetate

Concen: 17.88 ug/l

RT: 8.17 min Scan# 2046

Delta R.T. 0.00 min

Lab File: VN050556.D

Acq: 11 Aug 2018 7:52

Instrument :

MSVOA_N

ClientSampleId :

EXCAVATION-SOIL

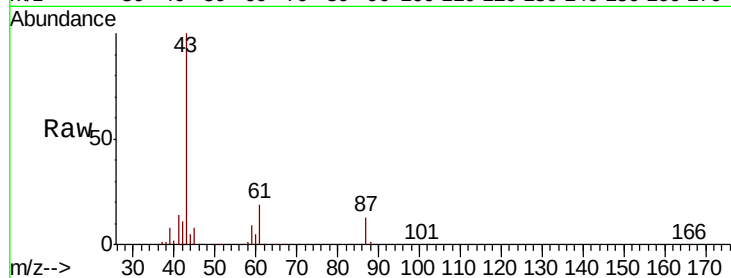
Tot Ion: 43 Resp: 258676

Ion Ratio Lower Upper

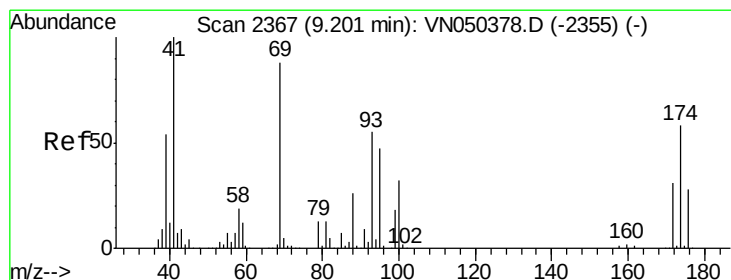
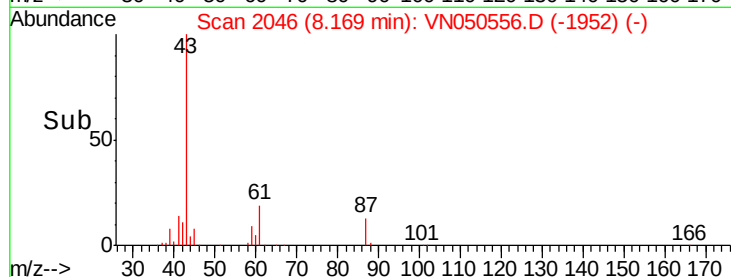
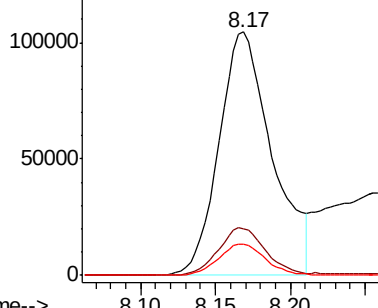
43 100

61 17.3 15.8 23.6

87 11.4 10.3 15.5



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



#48

Methyl methacrylate

Concen: 1.05 ug/l

RT: 9.18 min Scan# 2361

Delta R.T. -0.02 min

Lab File: VN050556.D

Acq: 11 Aug 2018 7:52

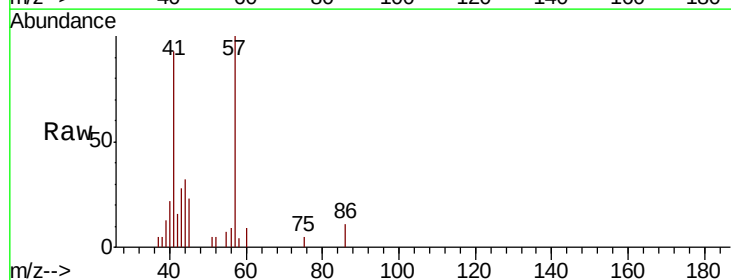
Tgt Ion: 41 Resp: 7643

Ion Ratio Lower Upper

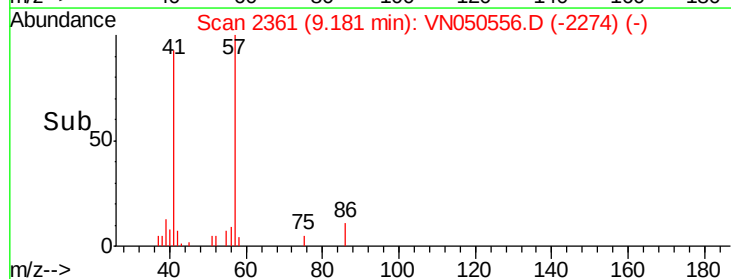
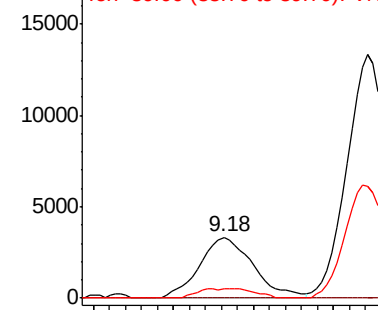
41 100

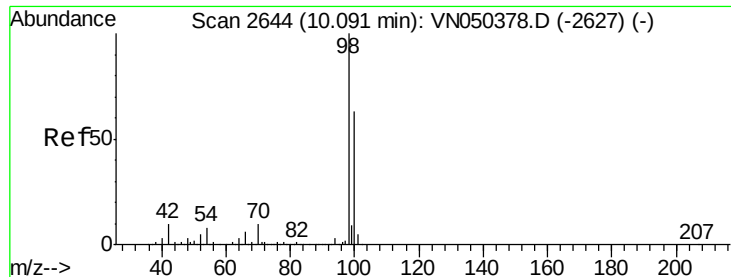
69 0.0 70.6 105.8#

39 6.6 43.9 65.9#



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

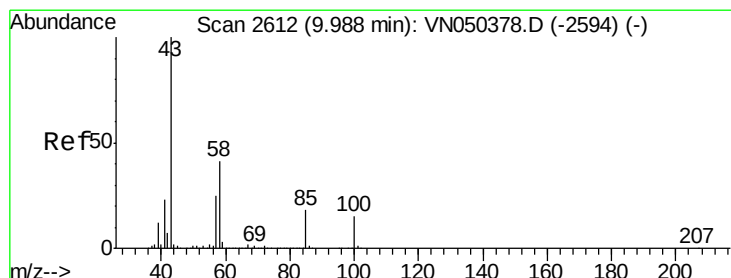
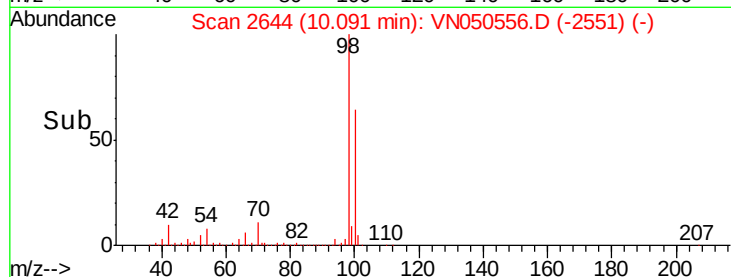
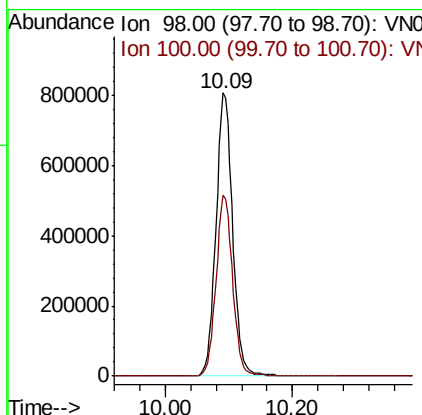
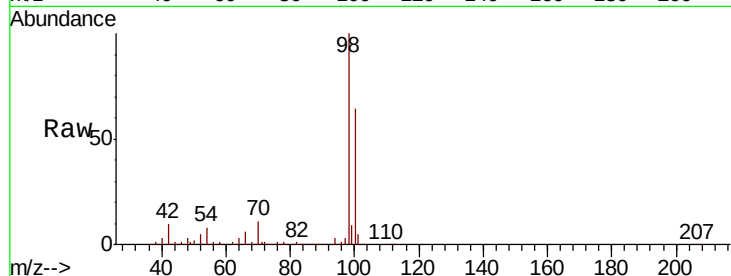




#50
Toluene-d8
Concen: 45.71 ug/l
RT: 10.09 min Scan# 2644
Delta R.T. 0.00 min
Lab File: VN050556.D
Acq: 11 Aug 2018 7:52

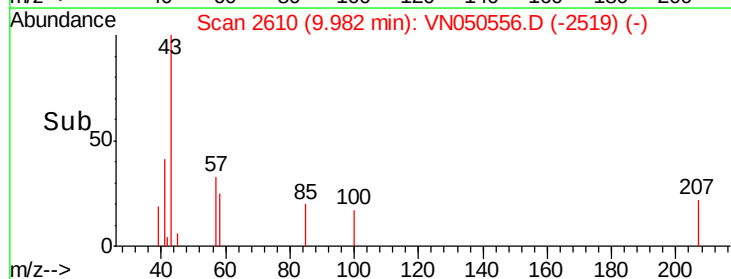
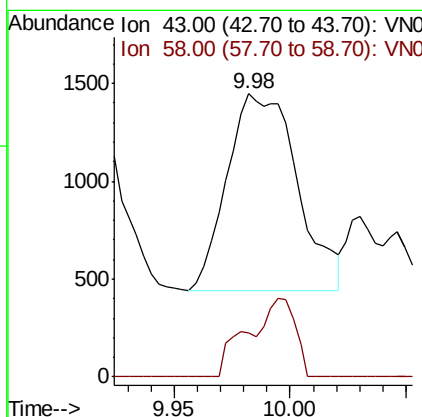
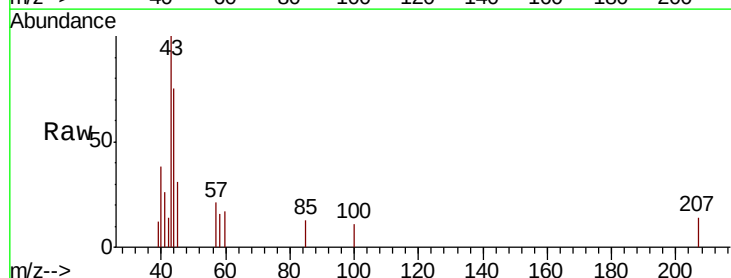
Instrument :
MSVOA_N
ClientSampleId :
EXCAVATION-SOIL

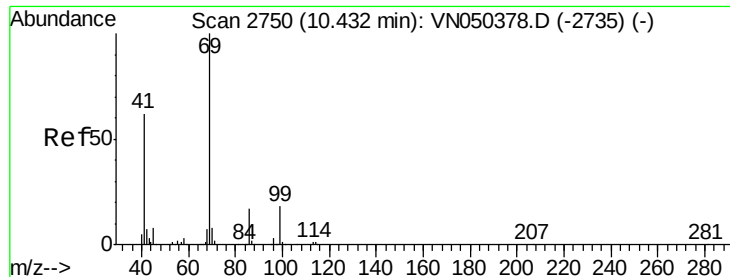
Tot Ion: 98 Resp: 1460738
Ion Ratio Lower Upper
98 100
100 63.9 50.7 76.1



#51
4-Methyl-2-Pentanone
Concen: 0.20 ug/l
RT: 9.98 min Scan# 2610
Delta R.T. -0.01 min
Lab File: VN050556.D
Acq: 11 Aug 2018 7:52

Tgt Ion: 43 Resp: 2108
Ion Ratio Lower Upper
43 100
58 26.7 31.9 47.9#





#56

Ethyl methacrylate

Concen: 1.72 ug/l

RT: 10.27 min Scan# 2699

Delta R.T. -0.16 min

Lab File: VN050556.D

Acq: 11 Aug 2018 7:52

Instrument :

MSVOA_N

ClientSampled :

EXCAVATION-SOIL

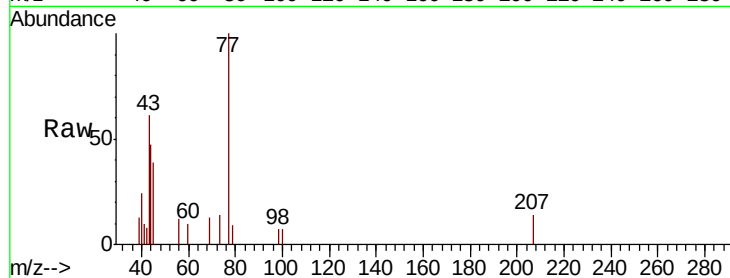
Tot Ion: 69 Resp: 176

Ion Ratio Lower Upper

69 100

41 140.9 51.0 76.4#

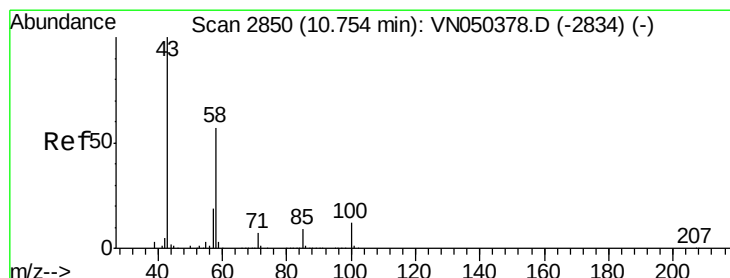
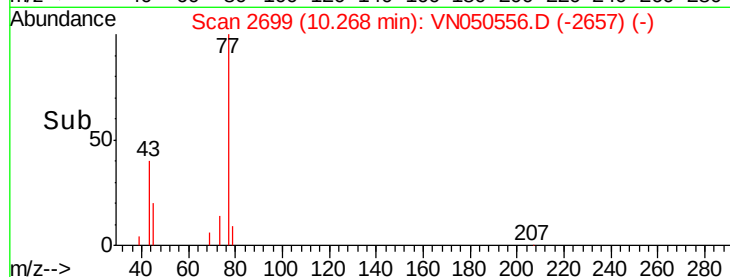
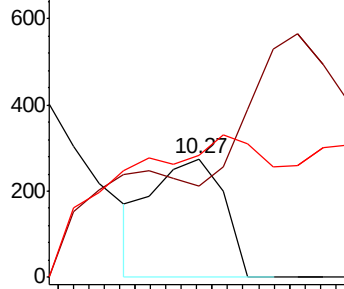
39 254.5 26.6 40.0#



Abundance Ion 69.00 (68.70 to 69.70): VN0

Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0



#59

2-Hexanone

Concen: 2.34 ug/l

RT: 10.77 min Scan# 2854

Delta R.T. 0.01 min

Lab File: VN050556.D

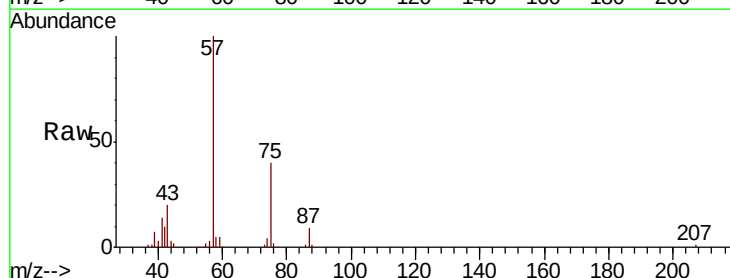
Acq: 11 Aug 2018 7:52

Tgt Ion: 43 Resp: 16994

Ion Ratio Lower Upper

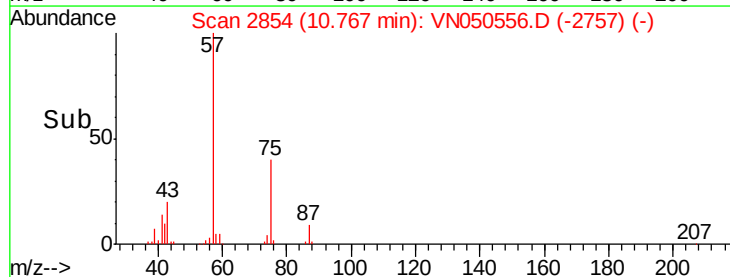
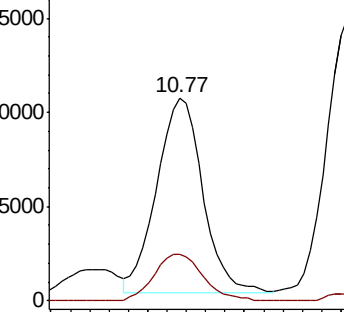
43 100

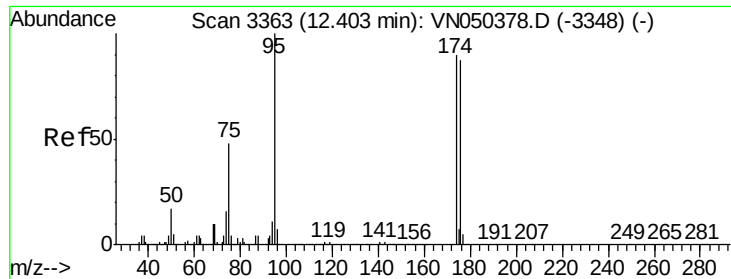
58 25.7 27.6 82.7#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

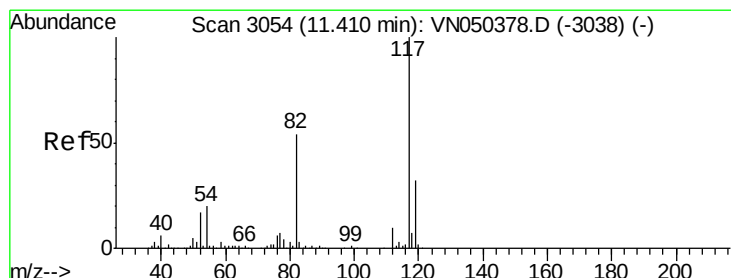
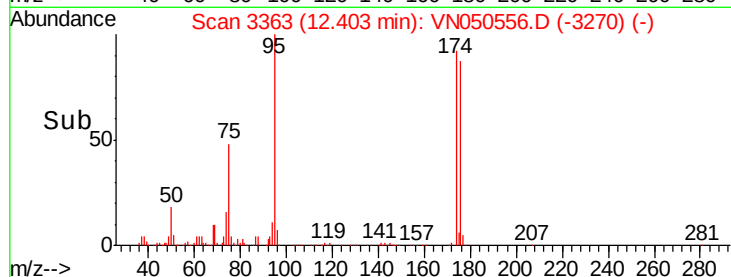
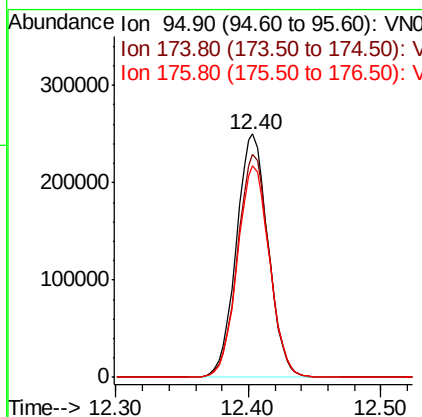
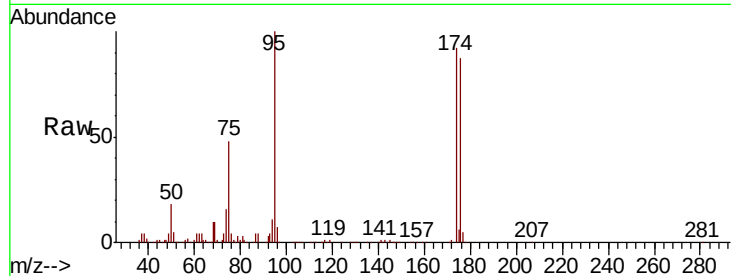




#62
4-Bromofluorobenzene
Concen: 38.11 ug/l
RT: 12.40 min Scan# 3363
Delta R.T. 0.00 min
Lab File: VN050556.D
Acq: 11 Aug 2018 7:52

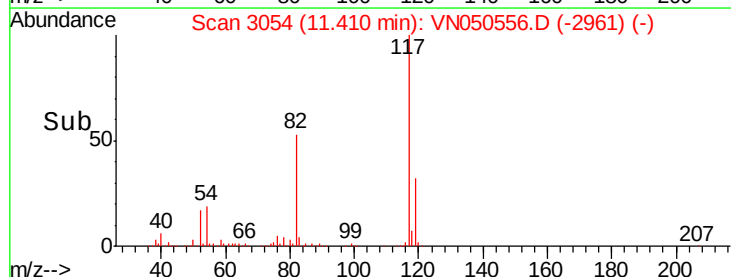
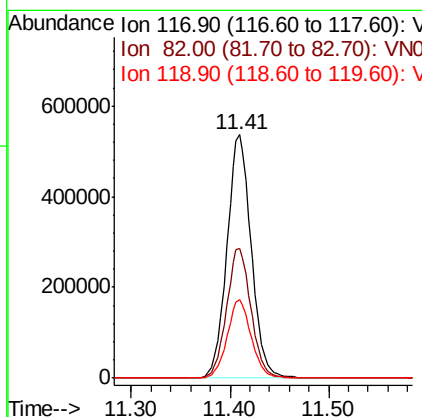
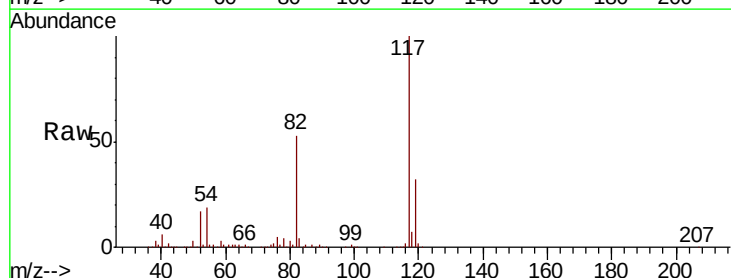
Instrument :
MSVOA_N
ClientSampleId :
EXCAVATION-SOIL

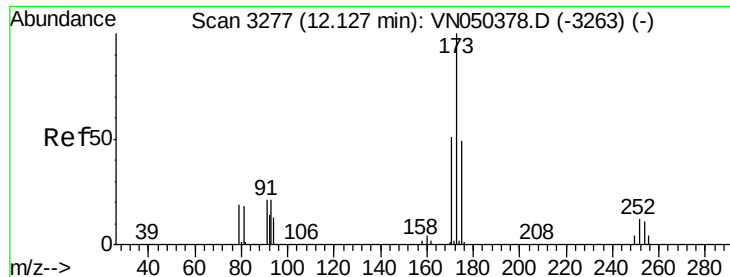
Tot Ion: 95 Resp: 415143
Ion Ratio Lower Upper
95 100
174 92.0 0.0 178.2
176 88.2 0.0 173.4



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. 0.00 min
Lab File: VN050556.D
Acq: 11 Aug 2018 7:52

Tgt Ion: 117 Resp: 924504
Ion Ratio Lower Upper
117 100
82 53.2 43.7 65.5
119 32.4 26.1 39.1





#71

Bromoform

Concen: 0.23 ug/l

RT: 12.40 min Scan# 3361

Delta R.T. 0.27 min

Lab File: VN050556.D

Acq: 11 Aug 2018 7:52

Instrument :

MSVOA_N

ClientSampleId :

EXCAVATION-SOIL

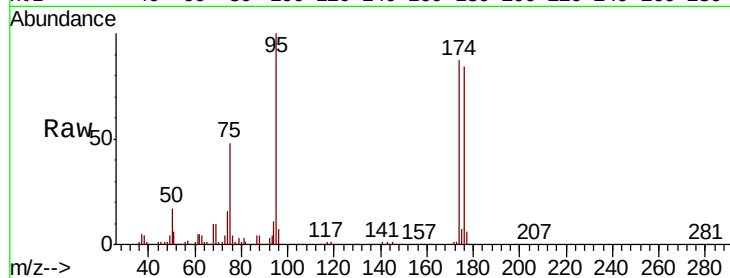
Tot Ion:173 Resp: 1427

Ion Ratio Lower Upper

173 100

175 0.0 24.1 72.2#

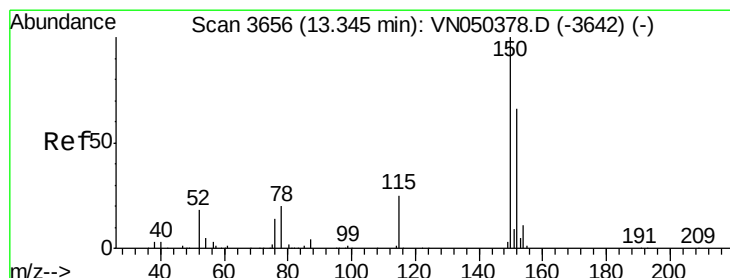
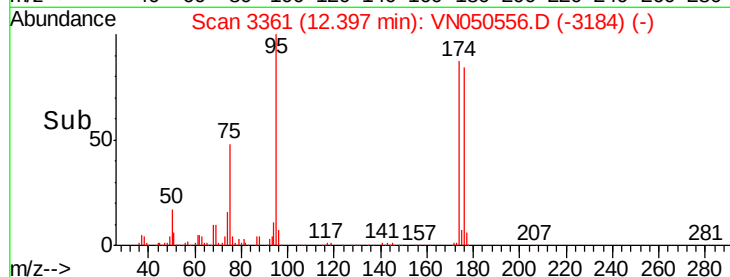
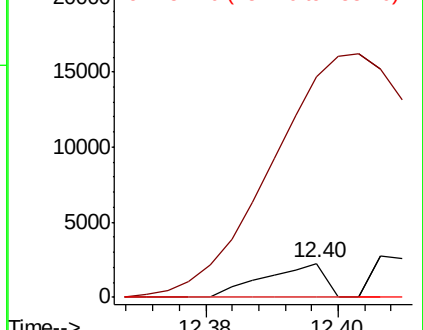
254 0.0 0.2 0.2#



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: VN050556.D

Acq: 11 Aug 2018 7:52

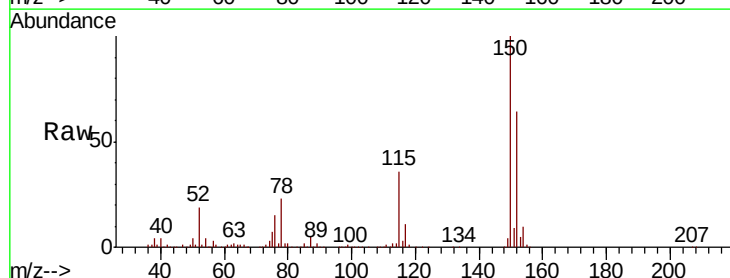
Tgt Ion:152 Resp: 358725

Ion Ratio Lower Upper

152 100

115 56.4 27.8 83.3

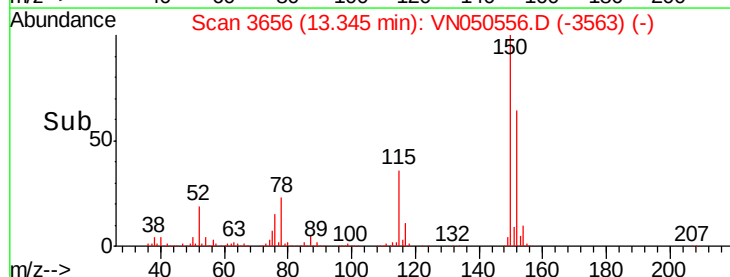
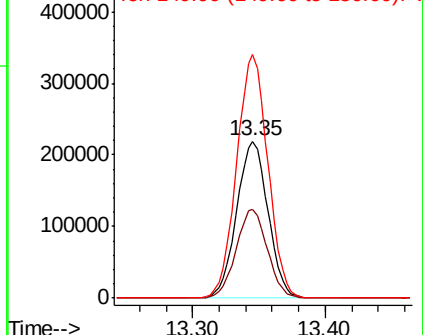
150 154.8 0.0 348.6

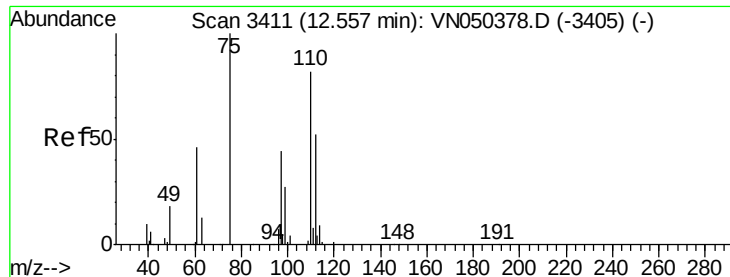


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 30.58 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.15 min

Lab File: VN050556.D

Acq: 11 Aug 2018 7:52

Instrument :

MSVOA_N

ClientSampleId :

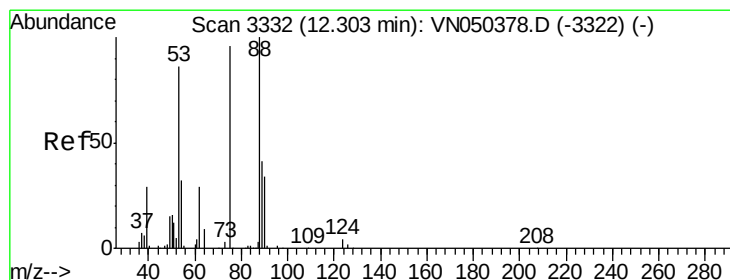
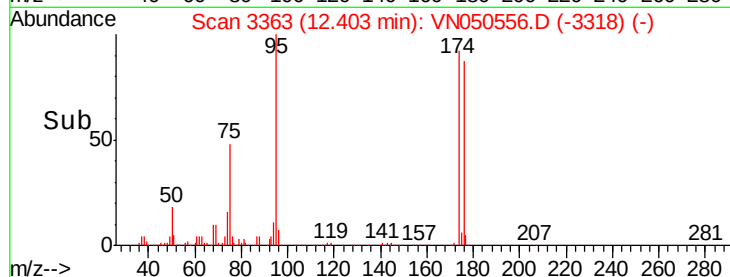
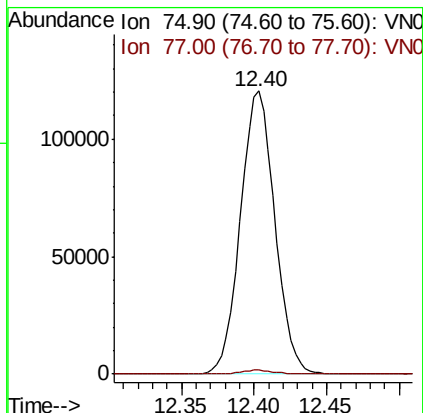
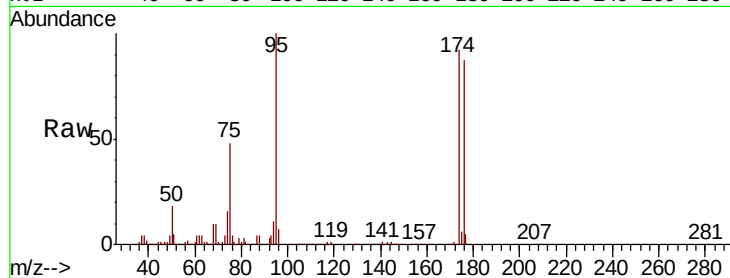
EXCAVATION-SOIL

Tot Ion: 75 Resp: 198537

Ion Ratio Lower Upper

75 100

77 1.3 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 107.43 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.10 min

Lab File: VN050556.D

Acq: 11 Aug 2018 7:52

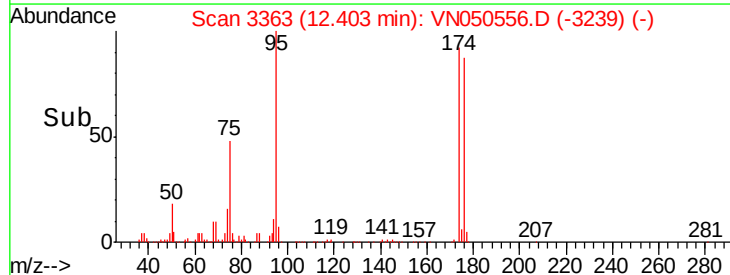
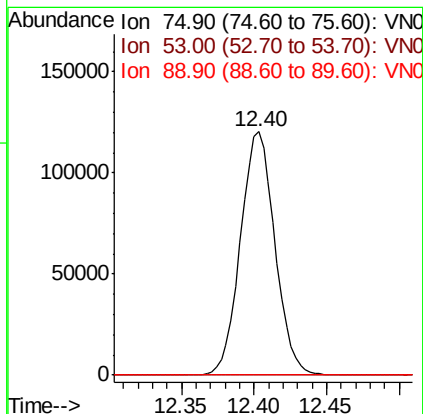
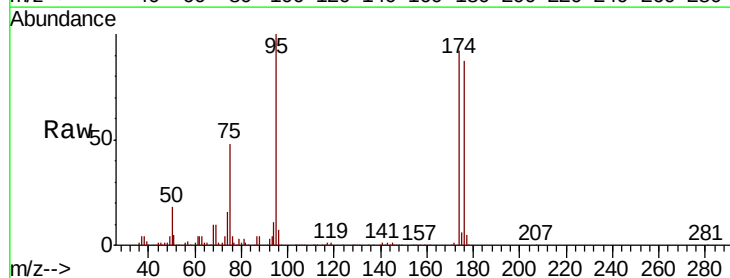
Tgt Ion: 75 Resp: 198537

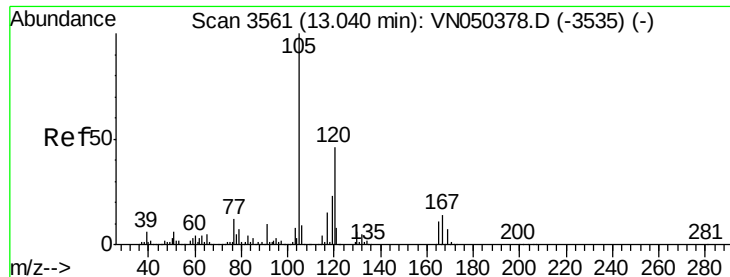
Ion Ratio Lower Upper

75 100

53 0.2 73.5 110.3#

89 0.0 36.0 54.0#

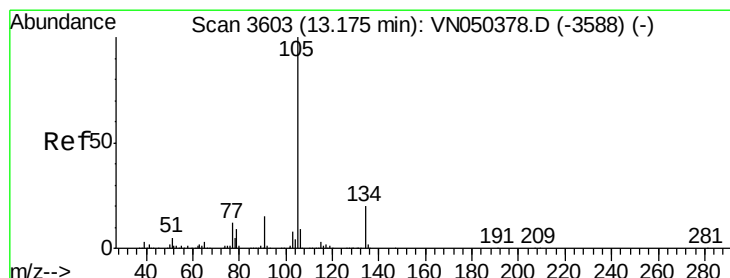
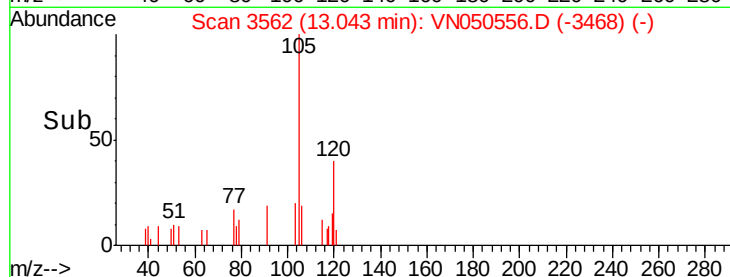
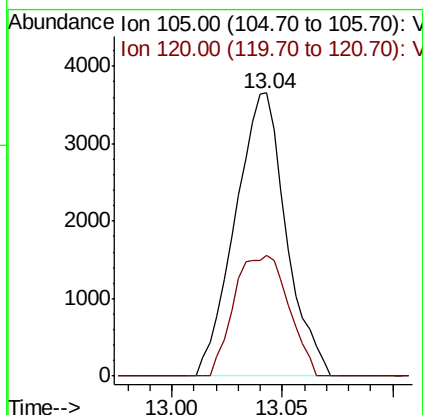
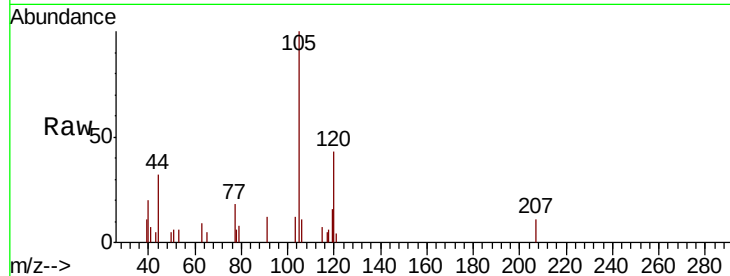




#84
 1,2,4-Trimethylbenzene
 Concen: 0.26 ug/l
 RT: 13.04 min Scan# 3562
 Delta R.T. 0.00 min
 Lab File: VN050556.D
 Acq: 11 Aug 2018 7:52

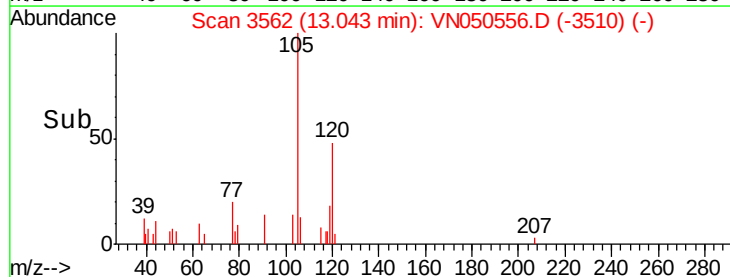
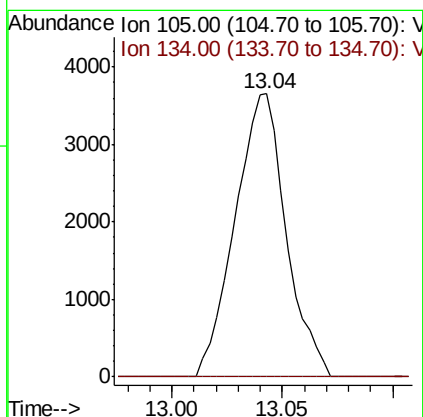
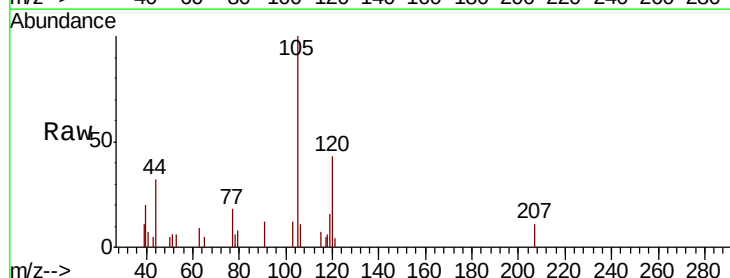
Instrument :
 MSVOA_N
 ClientSampleId :
 EXCAVATION-SOIL

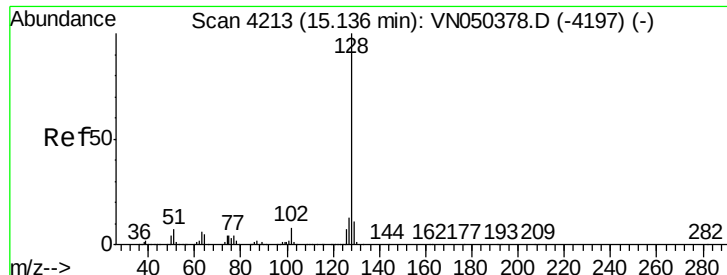
Tot Ion:105 Resp: 5856
 Ion Ratio Lower Upper
 105 100
 120 45.4 22.9 68.7



#85
 sec-Butylbenzene
 Concen: 0.23 ug/l
 RT: 13.04 min Scan# 3562
 Delta R.T. -0.13 min
 Lab File: VN050556.D
 Acq: 11 Aug 2018 7:52

Tgt Ion:105 Resp: 5856
 Ion Ratio Lower Upper
 105 100
 134 0.0 10.1 30.1#

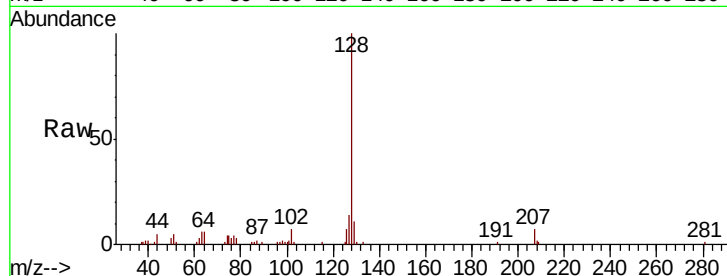




#95
 Naphthalene
 Concen: 6.52 ug/l
 RT: 15.14 min Scan# 4213
 Delta R.T. 0.00 min
 Lab File: VN050556.D
 Acq: 11 Aug 2018 7:52

Instrument :
 MSVOA_N
 ClientSampleId :
 EXCAVATION-SOIL

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.5	10.4	15.6
129	10.3	8.8	13.2



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

