

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN022119\
 Data File : VN053898.D
 Acq On : 21 Feb 2019 17:51
 Operator : JC/SP
 Sample : K1527-03
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 SOIL-PILE

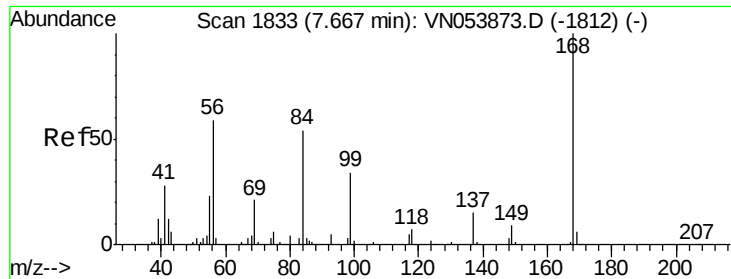
Quant Time: Feb 22 00:39:29 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N022019W.M
 Quant Title : SW846 8260
 QLast Update : Thu Feb 21 03:36:07 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	629900	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1057934	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1048919	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	435423	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	336921	52.34	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	104.68%	
35) Dibromofluoromethane	7.59	113	335962	48.39	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	96.78%	
50) Toluene-d8	10.09	98	1298349	51.78	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	103.56%	
62) 4-Bromofluorobenzene	12.40	95	448491	54.17	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	108.34%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.82	43	70070	39.578	ug/l	95
18) Methyl Acetate	4.34	43	3421	0.819	ug/l #	64
20) Methylene Chloride	4.56	84	37875	5.714	ug/l	97
25) 2-Butanone	6.84	43	2721	1.191	ug/l	100
29) Tetrahydrofuran	7.22	42	983	0.665	ug/l #	53
31) Cyclohexane	7.67	56	9148	0.360	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	36728	3.788	ug/l #	47
37) Ethyl Acetate	6.92	43	204	0.254	ug/l #	67
38) Carbon Tetrachloride	7.67	117	49082	5.067	ug/l #	16
41) Methacrylonitrile	7.21	41	238	Below Cal	#	100
43) Isopropyl Acetate	8.18	43	24943	2.411	ug/l #	93
48) Methyl methacrylate	9.18	41	8178	1.844	ug/l #	12
51) 4-Methyl-2-Pentanone	10.03	43	7797	7.950	ug/l #	34
54) cis-1,3-Dichloropropene	9.90	75	54316	5.105	ug/l #	65
56) Ethyl methacrylate	10.54	69	1247	2.615	ug/l #	1
57) 1,3-Dichloropropane	10.76	76	11385	1.089	ug/l #	43
59) 2-Hexanone	10.76	43	148292	45.696	ug/l #	50
71) Bromoform	12.40	173	3369	0.593	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	204588	32.007	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	5360	0.211	ug/l	98
81) trans-1,4-Dichloro-2-buten	12.40	75	204588	105.663	ug/l #	15
95) Naphthalene	15.13	128	2147	4.725	ug/l #	82

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN053898.D

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Instrument :

MSVOA_N

ClientSampleId :

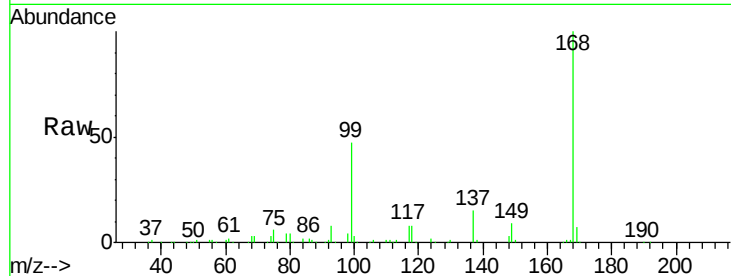
SOIL-PILE

Tot Ion:168 Resp: 629900

Ion Ratio Lower Upper

168 100

99 47.4 36.9 55.3



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.67

250000

200000

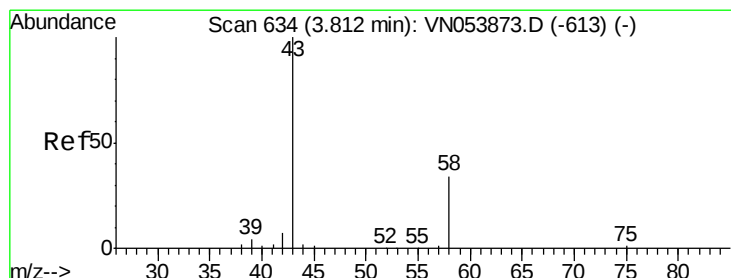
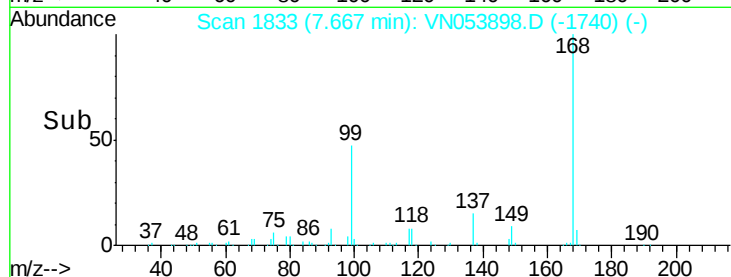
150000

100000

50000

0

Time--> 7.50 7.60 7.70 7.80 7.90



#16

Acetone

Concen: 39.578 ug/l

RT: 3.82 min Scan# 637

Delta R.T. 0.01 min

Lab File: VN053898.D

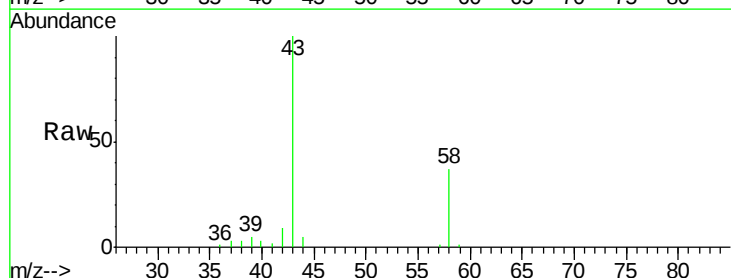
Acq: 21 Feb 2019 17:51

Tgt Ion: 43 Resp: 70070

Ion Ratio Lower Upper

43 100

58 37.1 27.6 41.4



Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 58.00 (57.70 to 58.70): VNO

3.82

30000

25000

20000

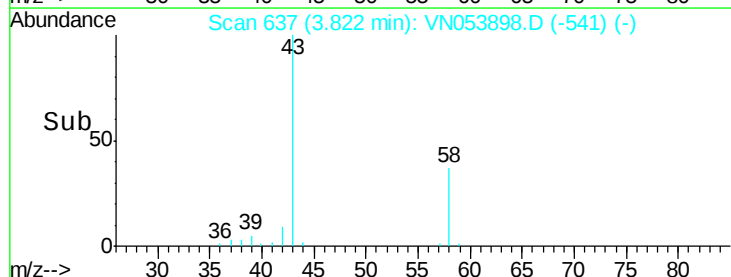
15000

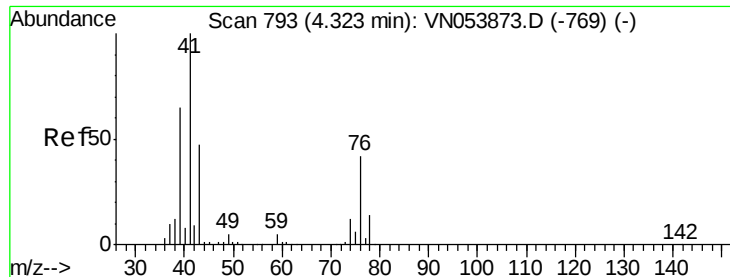
10000

5000

0

Time--> 3.70 3.80 3.90

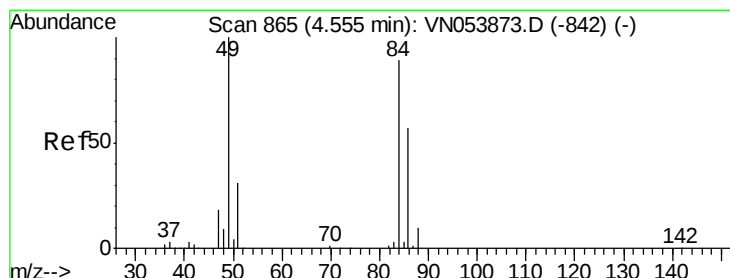
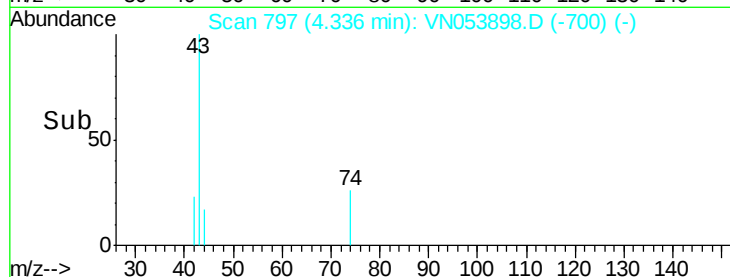
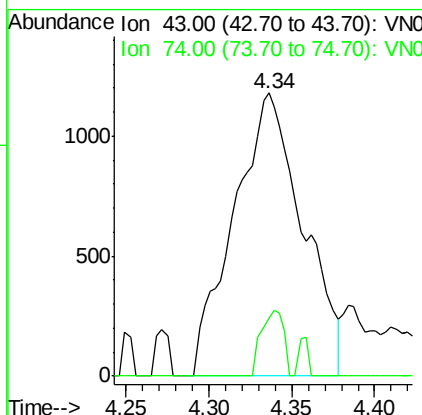
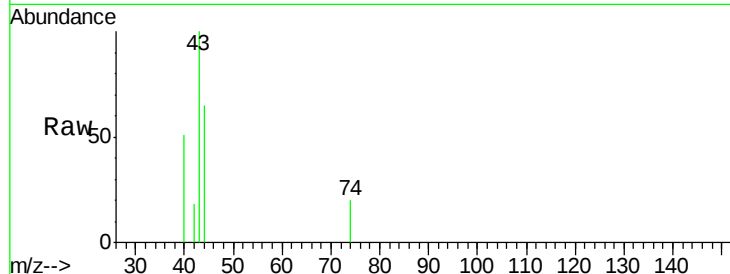




#18
Methyl Acetate
Concen: 0.819 ug/l
RT: 4.34 min Scan# 797
Delta R.T. 0.01 min
Lab File: VN053898.D
Acq: 21 Feb 2019 17:51

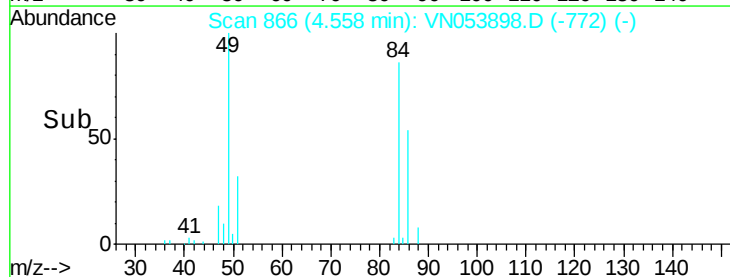
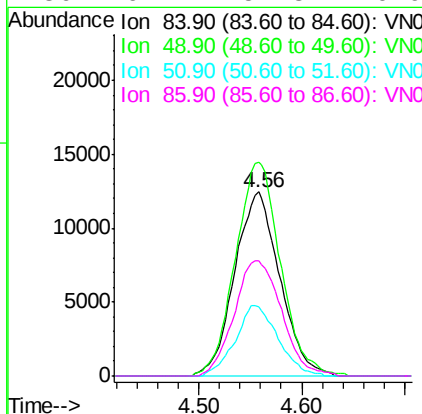
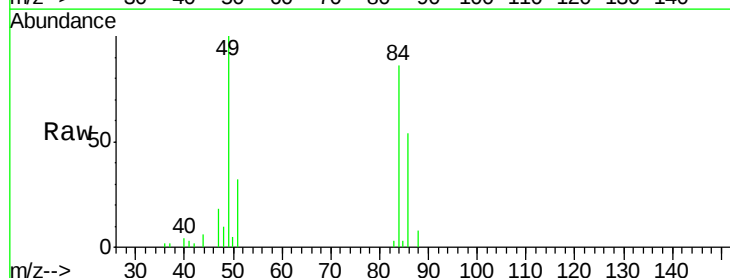
Instrument :
MSVOA_N
ClientSampled :
SOIL-PILE

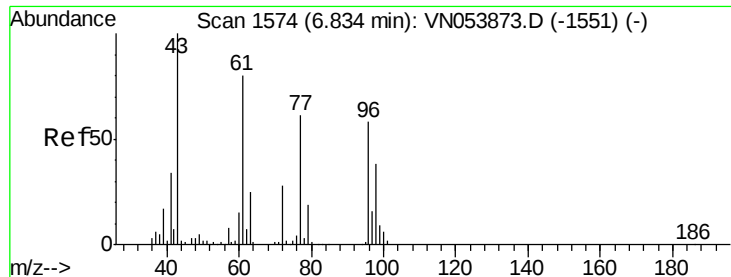
Tot Ion: 43 Resp: 3421
Ion Ratio Lower Upper
43 100
74 7.5 20.5 30.7#



#20
Methylene Chloride
Concen: 5.714 ug/l
RT: 4.56 min Scan# 866
Delta R.T. 0.00 min
Lab File: VN053898.D
Acq: 21 Feb 2019 17:51

Tgt Ion: 84 Resp: 37875
Ion Ratio Lower Upper
84 100
49 115.9 89.7 134.5
51 37.6 27.8 41.8
86 62.2 51.3 76.9

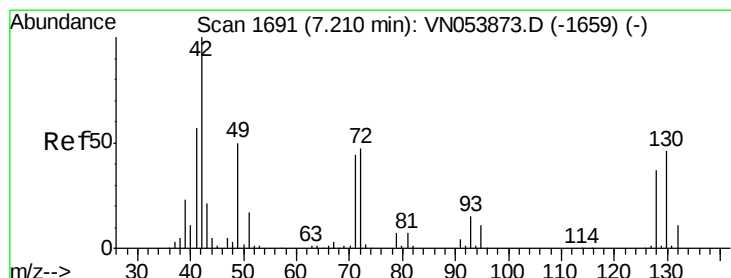
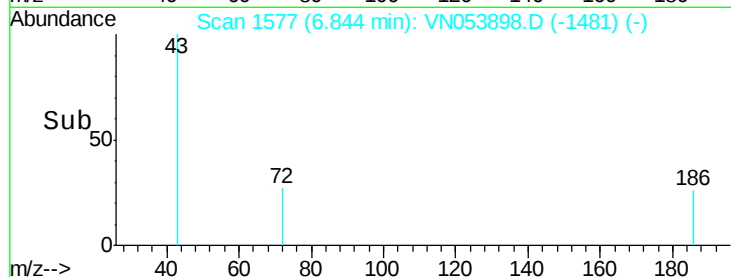
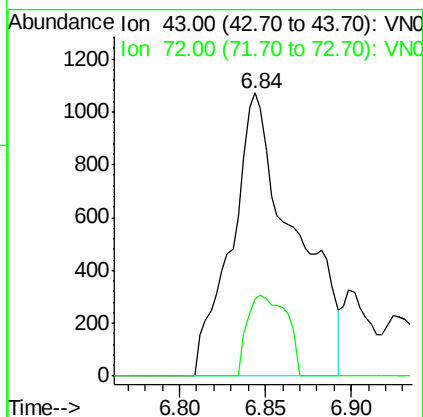
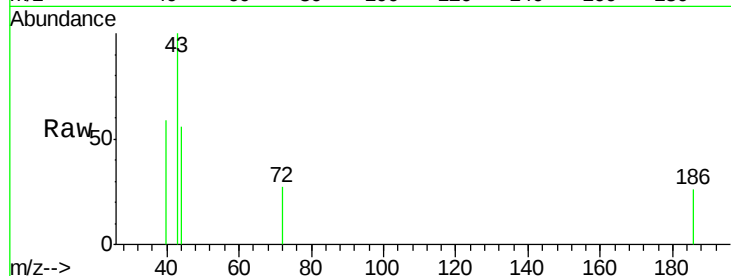




#25
2-Butanone
Concen: 1.191 ug/l
RT: 6.84 min Scan# 1577
Delta R.T. 0.01 min
Lab File: VN053898.D
Acq: 21 Feb 2019 17:51

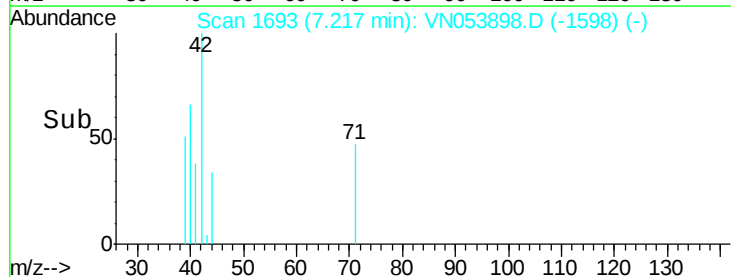
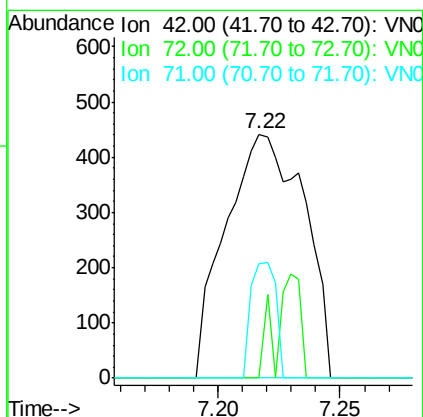
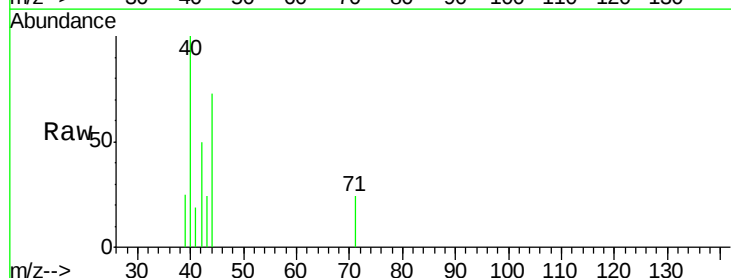
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MSVOA_N
ClientSampled :
SOIL-PILE

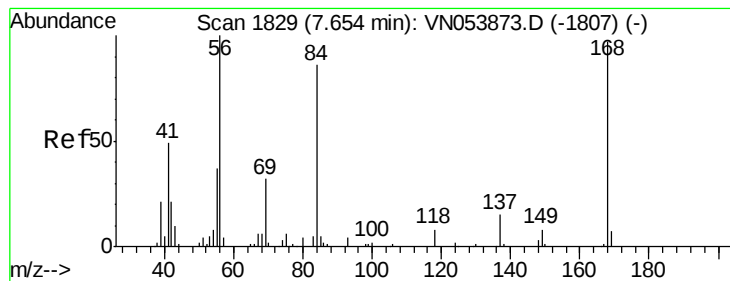
Tot Ion: 43 Resp: 2721
Ion Ratio Lower Upper
43 100
72 27.5 22.1 33.1



#29
Tetrahydrofuran
Concen: 0.665 ug/l
RT: 7.22 min Scan# 1693
Delta R.T. 0.01 min
Lab File: VN053898.D
Acq: 21 Feb 2019 17:51

Tgt Ion: 42 Resp: 983
Ion Ratio Lower Upper
42 100
72 13.2 36.9 55.3#
71 14.9 34.6 52.0#





#31

Cyclohexane

Concen: 0.360 ug/l

RT: 7.67 min Scan# 1834

Delta R.T. 0.02 min

Lab File: VN053898.D

Acq: 21 Feb 2019 17:51

Instrument :

MSVOA_N

ClientSampled :

SOIL-PILE

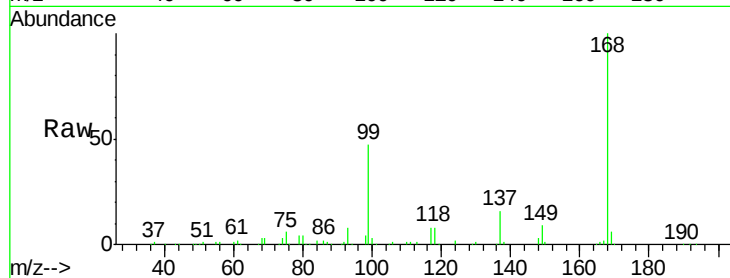
Tot Ion: 56 Resp: 9148

Ion Ratio Lower Upper

56 100

69 204.1 26.0 39.0#

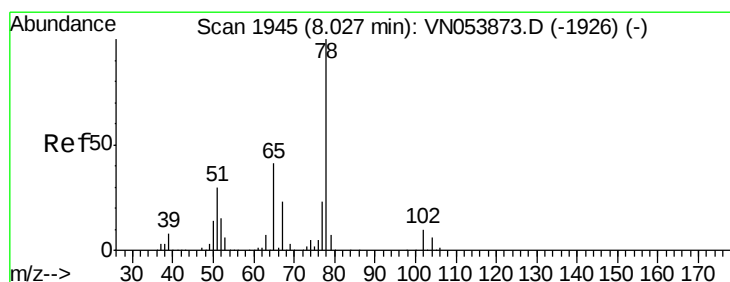
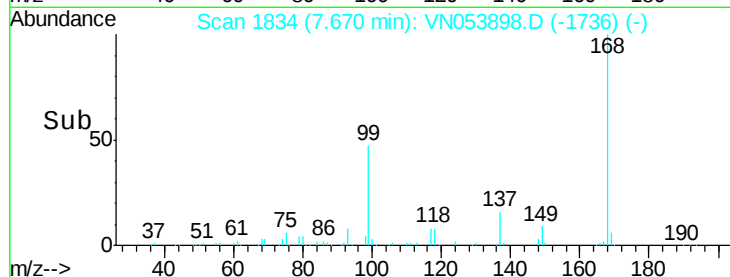
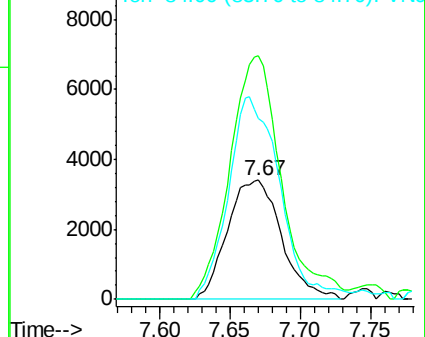
84 151.3 69.1 103.7#



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: 52.337 ug/l

RT: 8.03 min Scan# 1945

Delta R.T. 0.00 min

Lab File: VN053898.D

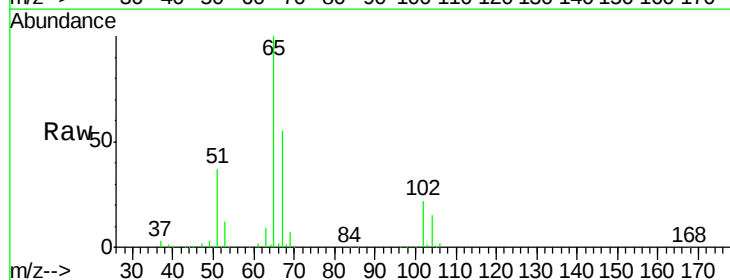
Acq: 21 Feb 2019 17:51

Tgt Ion: 65 Resp: 336921

Ion Ratio Lower Upper

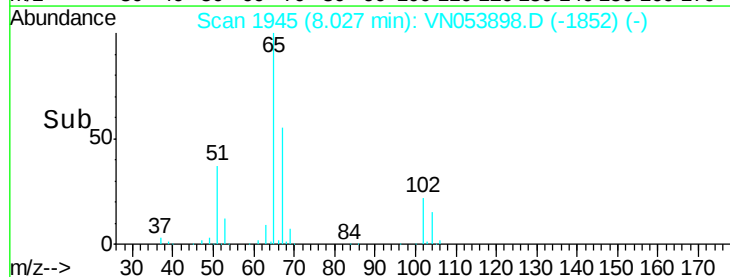
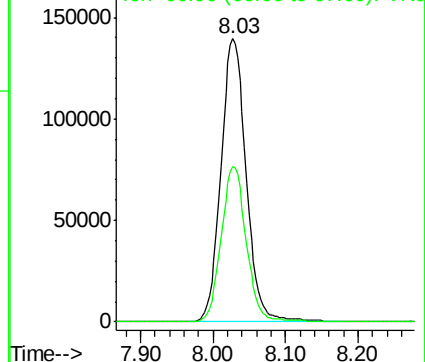
65 100

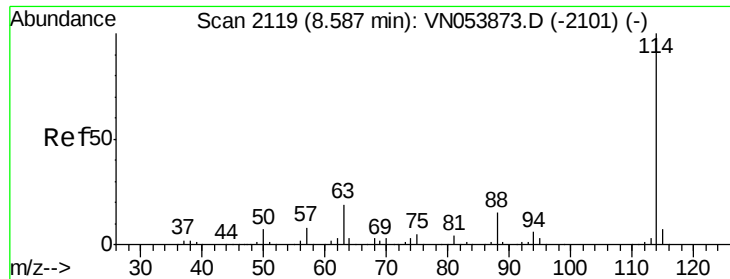
67 54.6 0.0 111.8



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

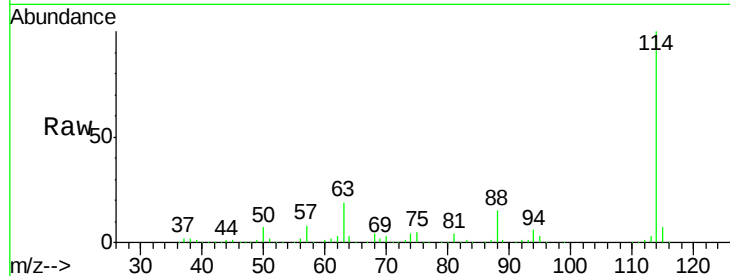




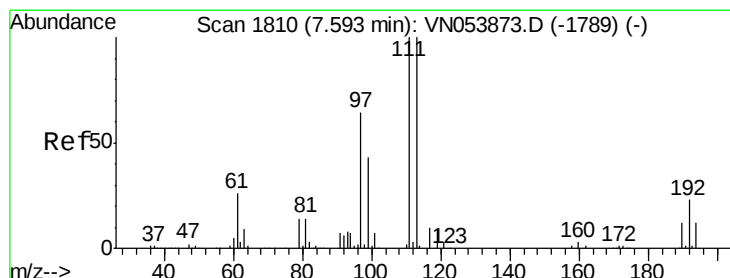
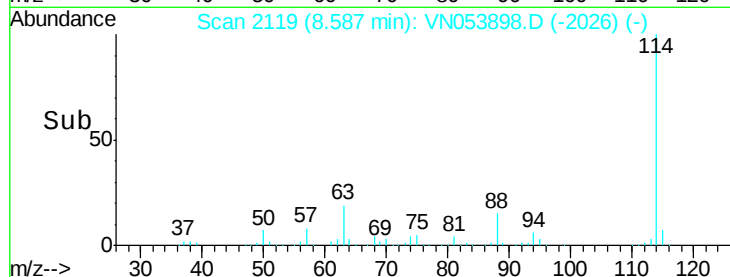
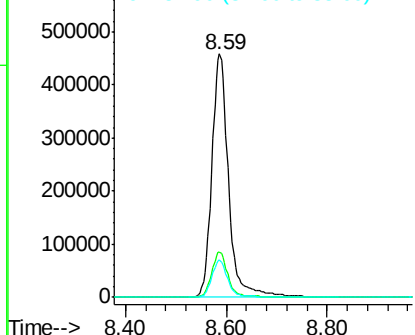
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN053898.D
 Acq: 21 Feb 2019 17:51

Instrument :
 MSVOA_N
 ClientSampleId :
 SOIL-PILE

Tot Ion:114 Resp: 1057934
 Ion Ratio Lower Upper
 114 100
 63 18.8 0.0 37.4
 88 15.2 0.0 30.4

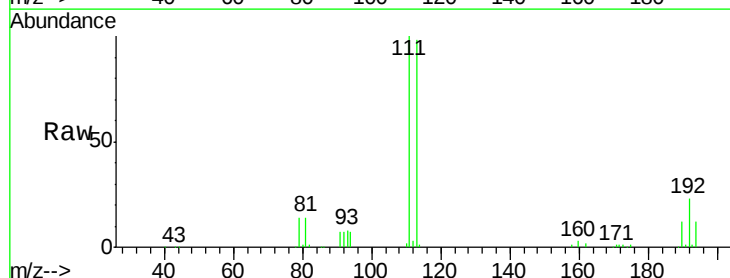


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): V
 Ion 87.90 (87.60 to 88.60): V

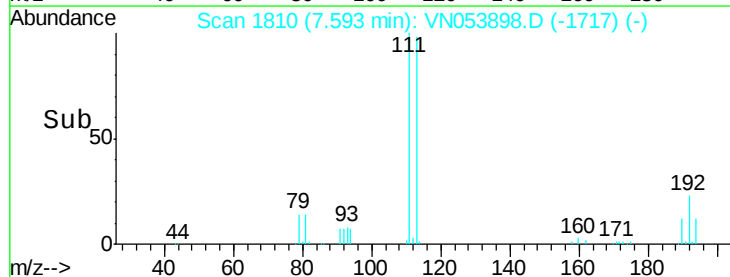
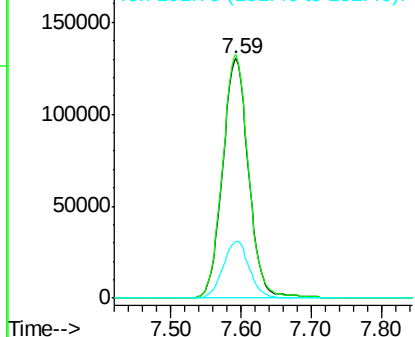


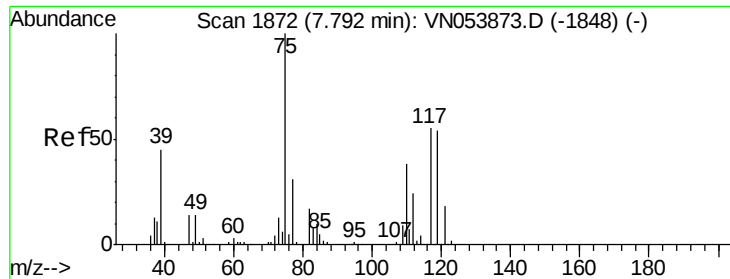
#35
 Dibromofluoromethane
 Concen: 48.388 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN053898.D
 Acq: 21 Feb 2019 17:51

Tgt Ion:113 Resp: 335962
 Ion Ratio Lower Upper
 113 100
 111 101.5 81.1 121.7
 192 23.8 18.8 28.2



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

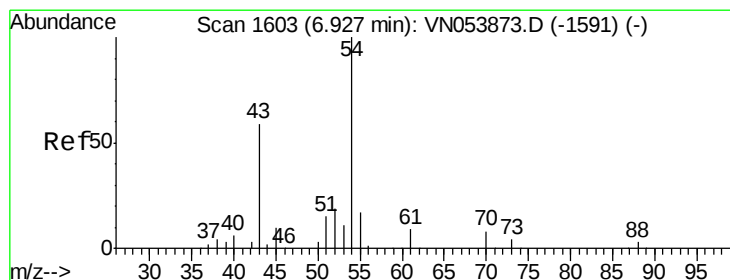
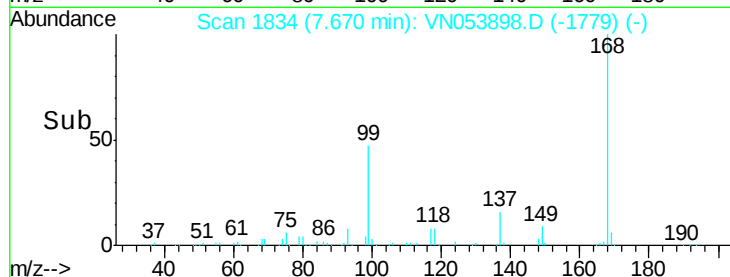
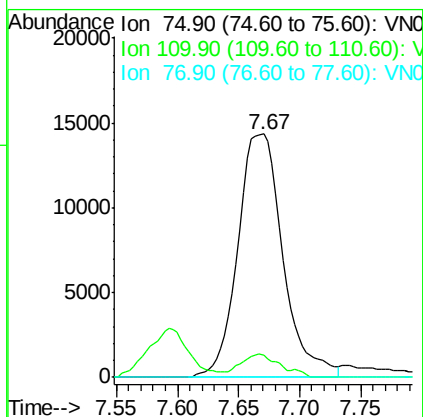
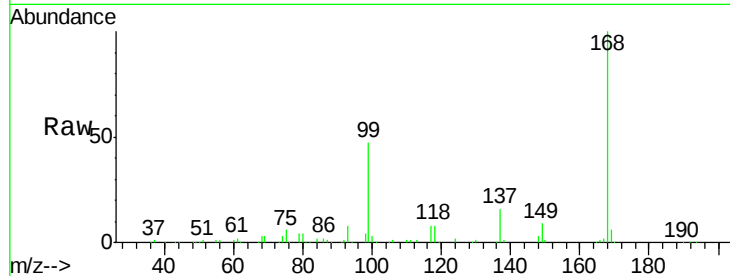




#36
 1,1-Dichloropropene
 Concen: 3.788 ug/l
 RT: 7.67 min Scan# 1834
 Delta R.T. -0.12 min
 Lab File: VN053898.D
 Acq: 21 Feb 2019 17:51

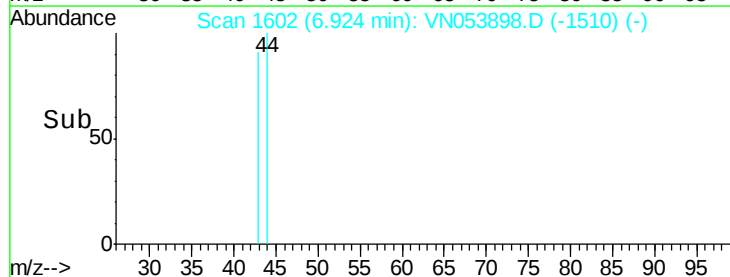
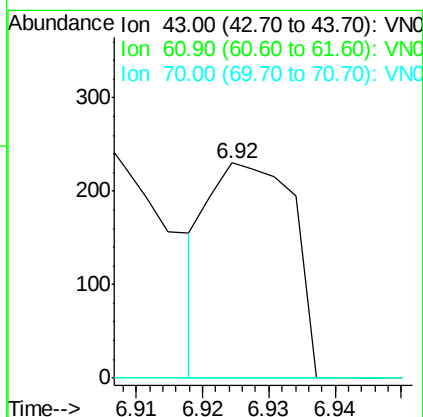
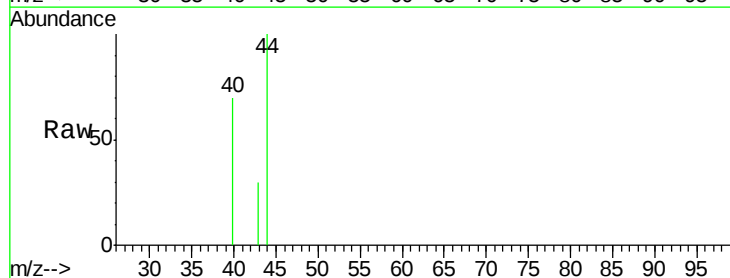
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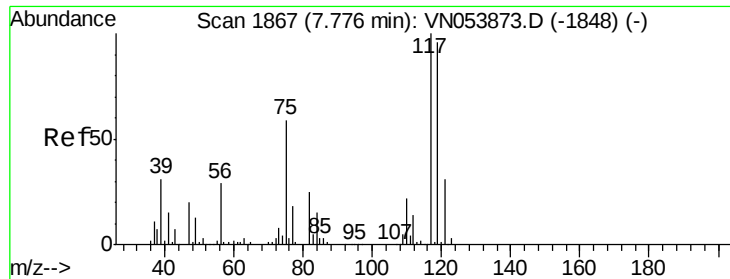
Tot Ion: 75 Resp: 36728
 Ion Ratio Lower Upper
 75 100
 110 8.5 19.0 57.0#
 77 0.0 25.4 38.0#



#37
 Ethyl Acetate
 Concen: 0.254 ug/l
 RT: 6.92 min Scan# 1602
 Delta R.T. -0.00 min
 Lab File: VN053898.D
 Acq: 21 Feb 2019 17:51

Tgt Ion: 43 Resp: 204
 Ion Ratio Lower Upper
 43 100
 61 0.0 12.0 18.0#
 70 0.0 8.7 13.1#

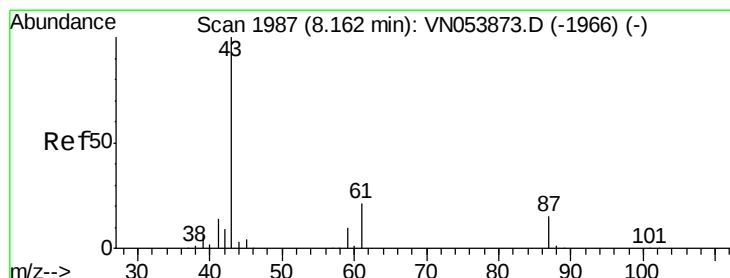
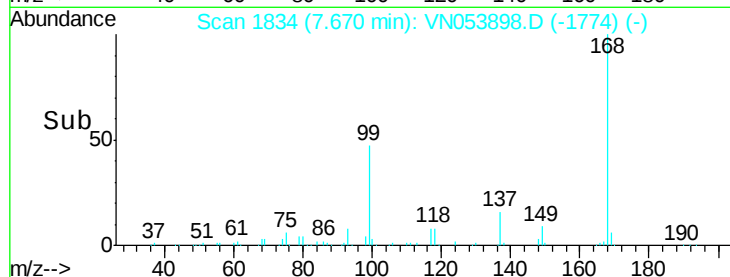
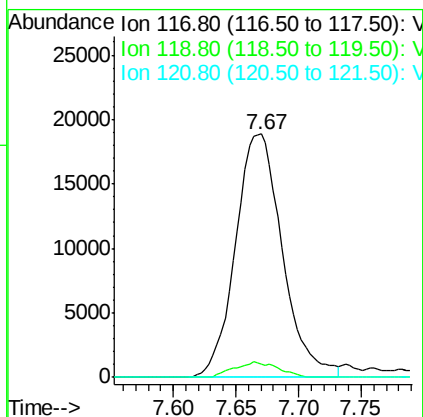
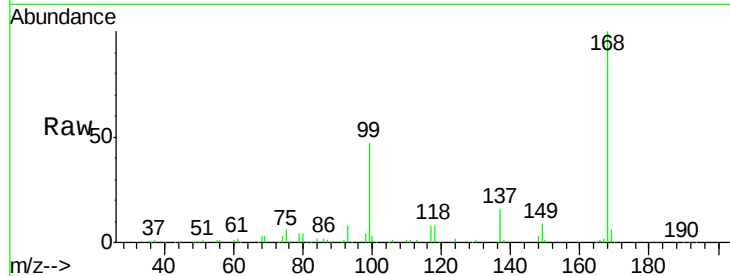




#38
Carbon Tetrachloride
Concen: 5.067 ug/l
RT: 7.67 min Scan# 1834
Delta R.T. -0.11 min
Lab File: VN053898.D
Acq: 21 Feb 2019 17:51

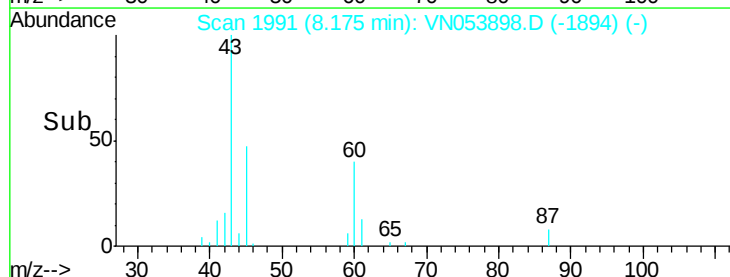
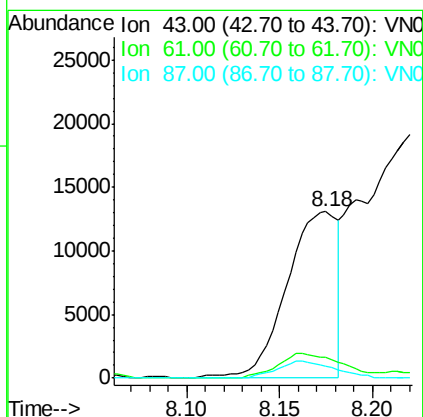
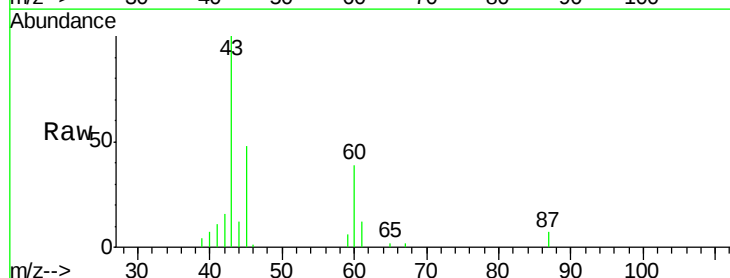
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MSVOA_N
ClientSampled :
SOIL-PILE

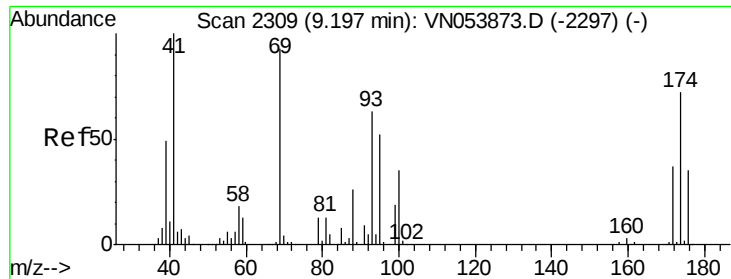
Tot Ion:117 Resp: 49082
Ion Ratio Lower Upper
117 100
119 5.3 76.2 114.2#
121 0.0 24.6 36.8#



#43
Isopropyl Acetate
Concen: 2.411 ug/l
RT: 8.18 min Scan# 1991
Delta R.T. 0.01 min
Lab File: VN053898.D
Acq: 21 Feb 2019 17:51

Tgt Ion: 43 Resp: 24943
Ion Ratio Lower Upper
43 100
61 18.5 17.4 26.0
87 11.4 11.5 17.3#

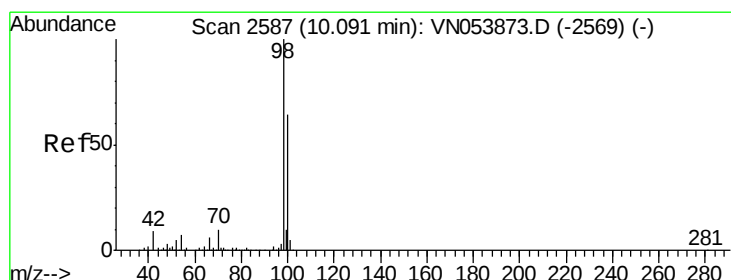
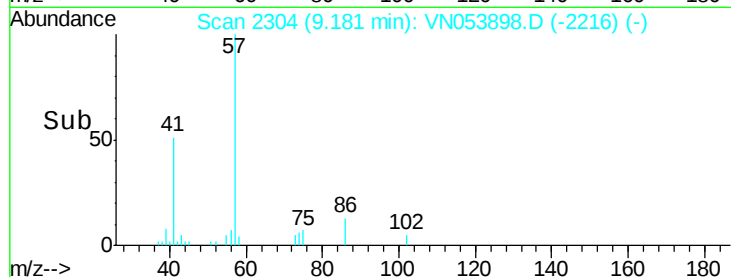
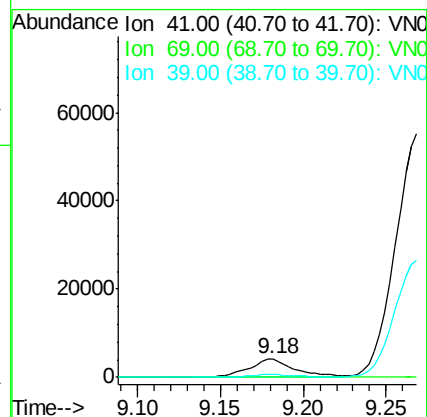
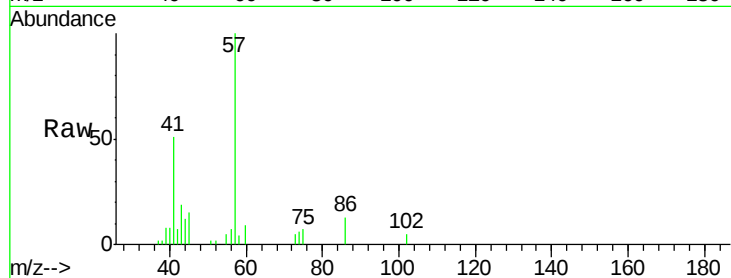




#48
Methvl methacrylate
Concen: 1.844 ug/l
RT: 9.18 min Scan# 2304
Delta R.T. -0.02 min
Lab File: VN053898.D
Acq: 21 Feb 2019 17:51

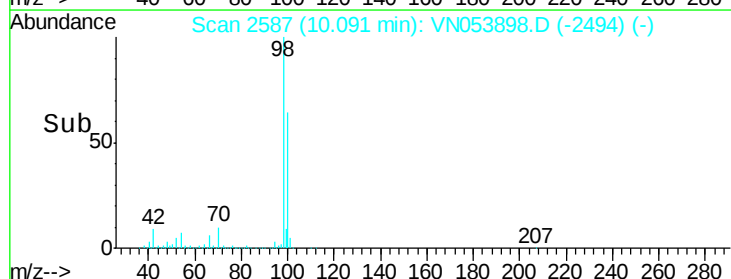
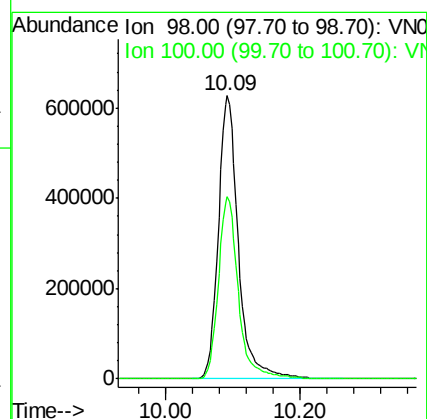
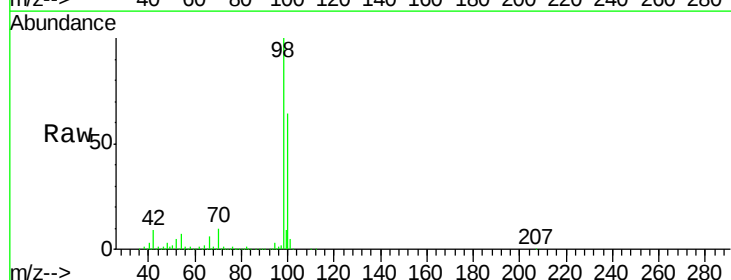
Instrument :
MSVOA_N
ClientSampleId :
SOIL-PILE

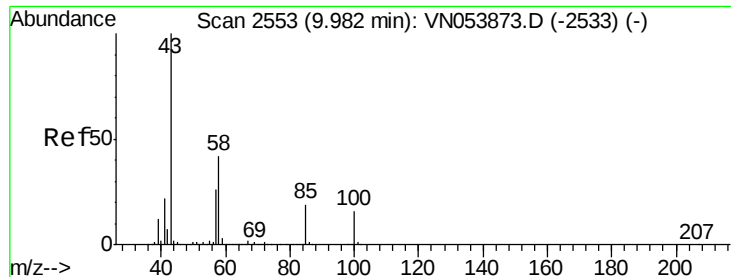
Tot Ion: 41 Resp: 8178
Ion Ratio Lower Upper
41 100
69 0.0 74.8 112.2#
39 0.0 39.0 58.6#



#50
Toluene-d8
Concen: 51.775 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN053898.D
Acq: 21 Feb 2019 17:51

Tgt Ion: 98 Resp: 1298349
Ion Ratio Lower Upper
98 100
100 64.4 51.9 77.9





#51

4-Methyl-2-Pentanone

Concen: 7.950 ug/l

RT: 10.03 min Scan# 2567

Delta R.T. 0.05 min

Lab File: VN053898.D

Acq: 21 Feb 2019 17:51

Instrument :

MSVOA_N

ClientSampled :

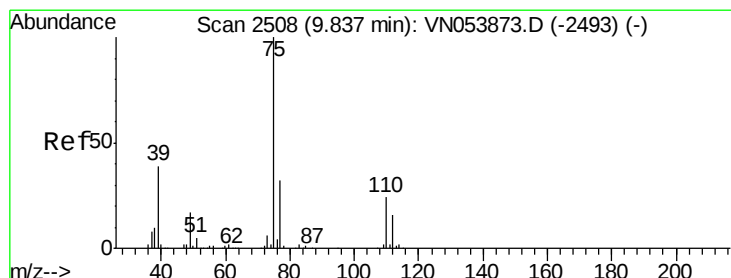
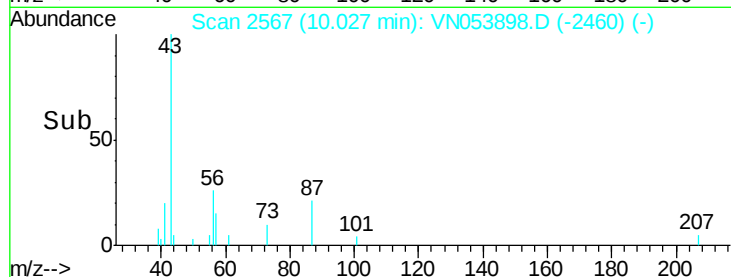
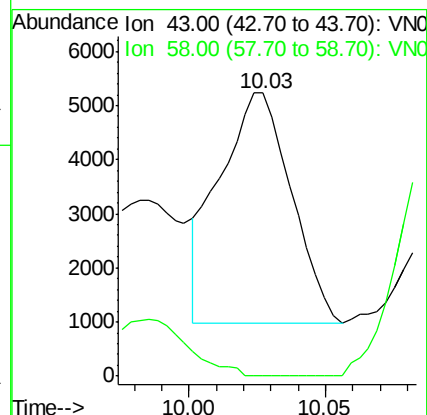
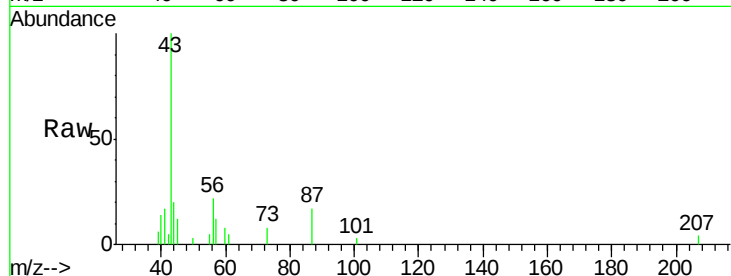
SOIL-PILE

Tot Ion: 43 Resp: 7797

Ion Ratio Lower Upper

43 100

58 0.0 32.7 49.1#



#54

cis-1,3-Dichloropropene

Concen: 5.105 ug/l

RT: 9.90 min Scan# 2529

Delta R.T. 0.07 min

Lab File: VN053898.D

Acq: 21 Feb 2019 17:51

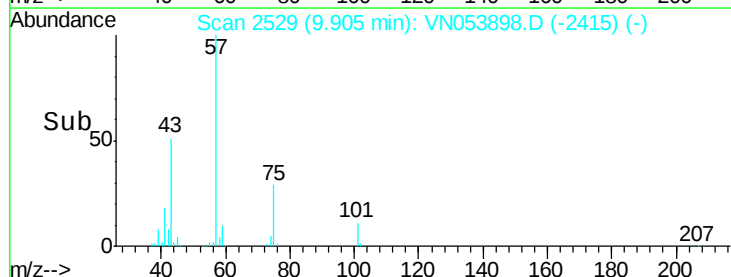
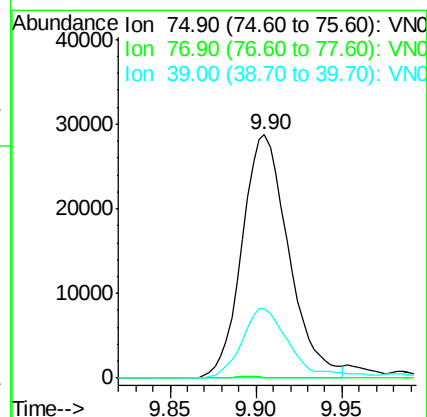
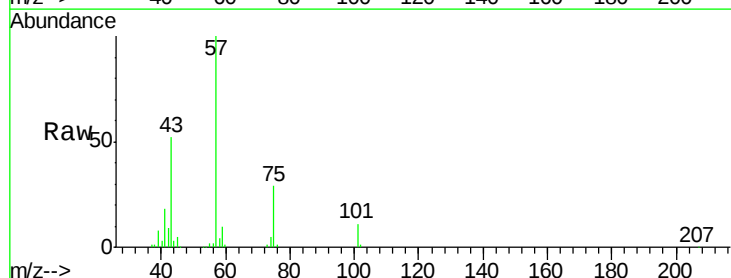
Tgt Ion: 75 Resp: 54316

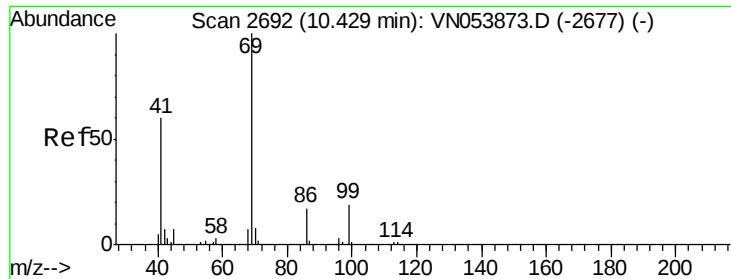
Ion Ratio Lower Upper

75 100

77 0.0 25.8 38.6#

39 28.6 31.4 47.0#





#56

Ethyl methacrylate

Concen: 2.615 ug/l

RT: 10.54 min Scan# 2728

Delta R.T. 0.12 min

Lab File: VN053898.D

Acq: 21 Feb 2019 17:51

Instrument :

MSVOA_N

ClientSampled :

SOIL-PILE

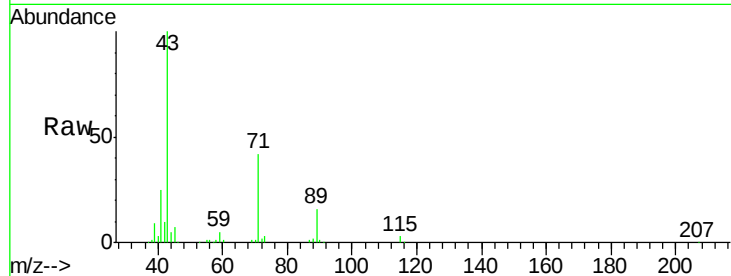
Tot Ion: 69 Resp: 1247

Ion Ratio Lower Upper

69 100

41 3018.3 47.5 71.3#

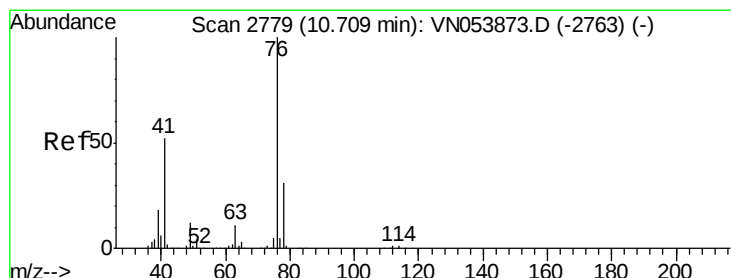
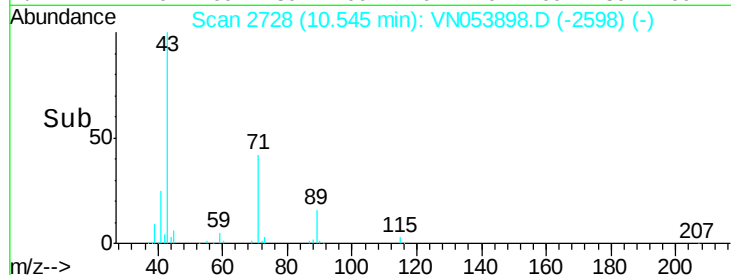
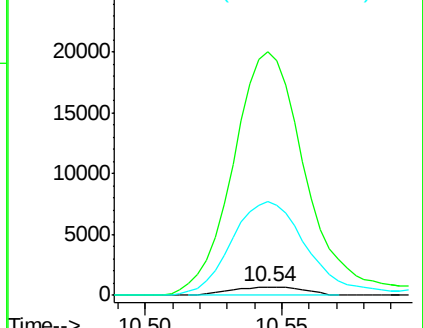
39 1203.0 23.4 35.0#



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



#57

1,3-Dichloropropane

Concen: 1.089 ug/l

RT: 10.76 min Scan# 2795

Delta R.T. 0.05 min

Lab File: VN053898.D

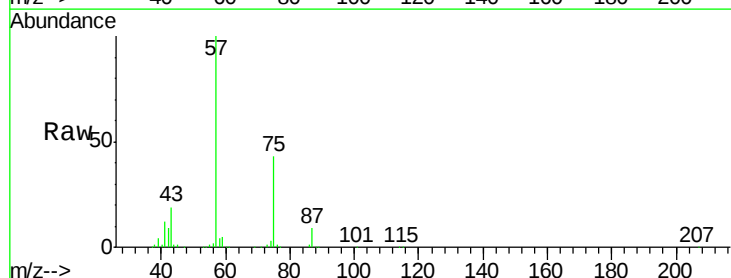
Acq: 21 Feb 2019 17:51

Tgt Ion: 76 Resp: 11385

Ion Ratio Lower Upper

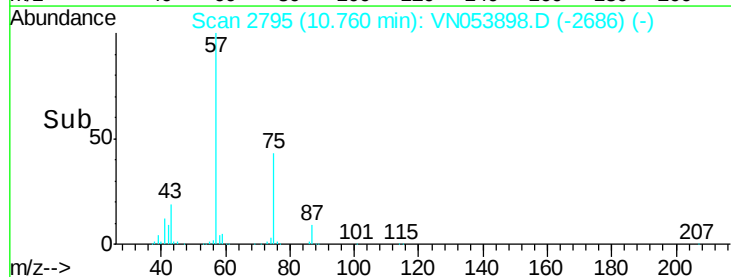
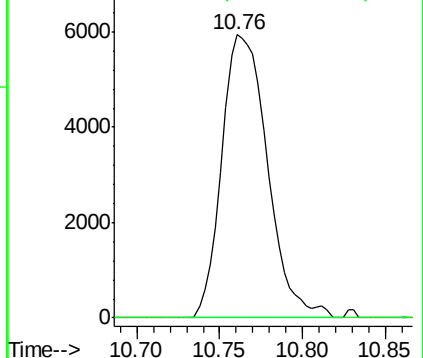
76 100

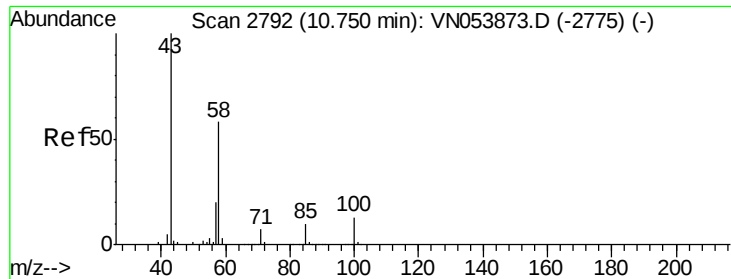
78 0.0 25.2 37.8#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

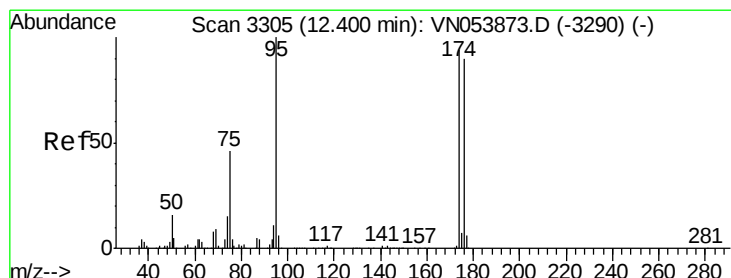
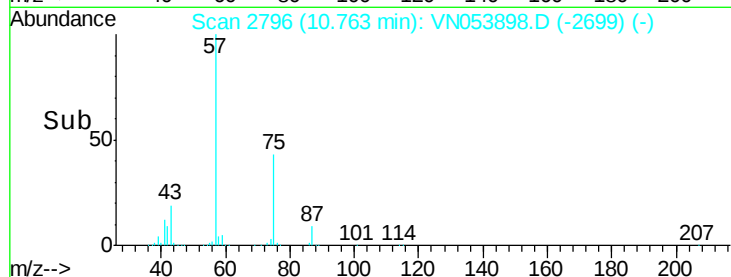
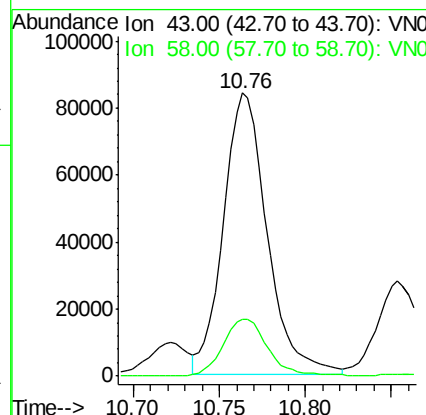
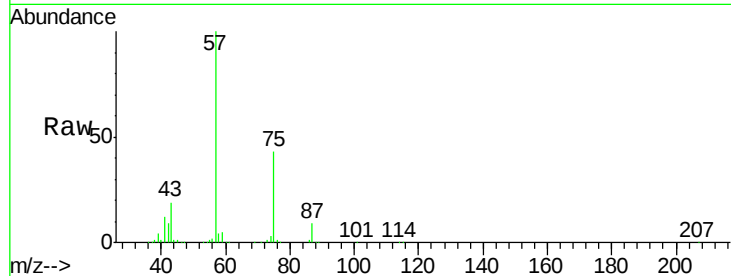




#59
2-Hexanone
Concen: 45.696 ug/l
RT: 10.76 min Scan# 2796
Delta R.T. 0.01 min
Lab File: VN053898.D
Acq: 21 Feb 2019 17:51

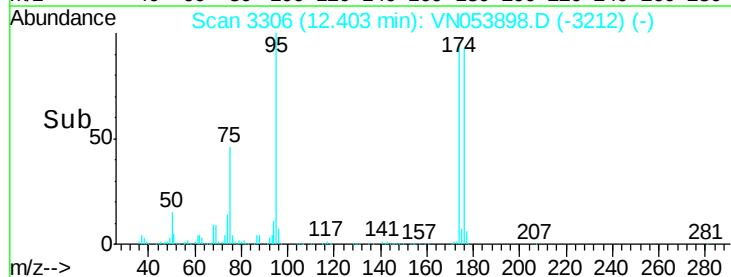
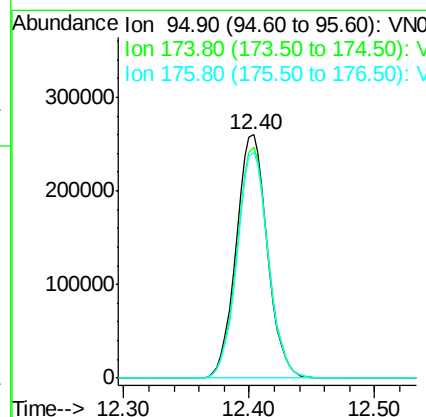
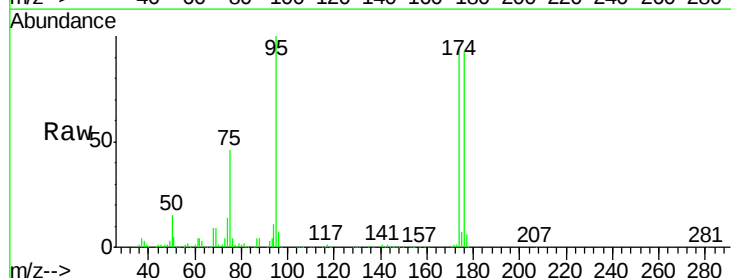
Instrument :
MSVOA_N
ClientSampleId :
SOIL-PILE

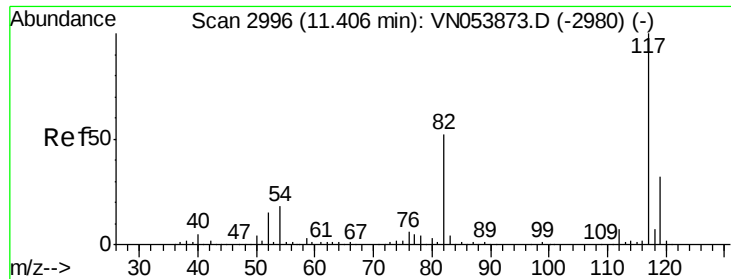
Tot Ion: 43 Resp: 148292
Ion Ratio Lower Upper
43 100
58 21.0 29.1 87.4#



#62
4-Bromofluorobenzene
Concen: 54.174 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN053898.D
Acq: 21 Feb 2019 17:51

Tgt Ion: 95 Resp: 448491
Ion Ratio Lower Upper
95 100
174 95.4 0.0 188.8
176 92.5 0.0 182.6

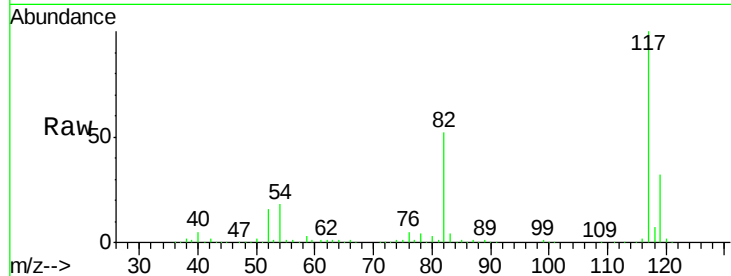




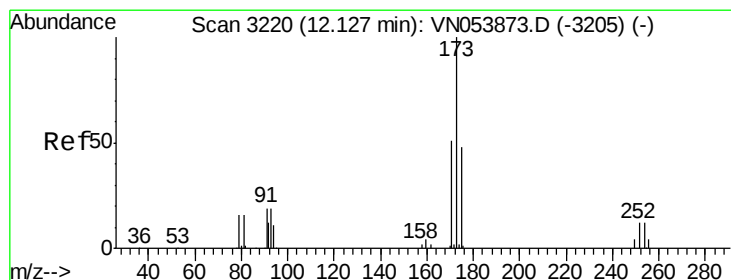
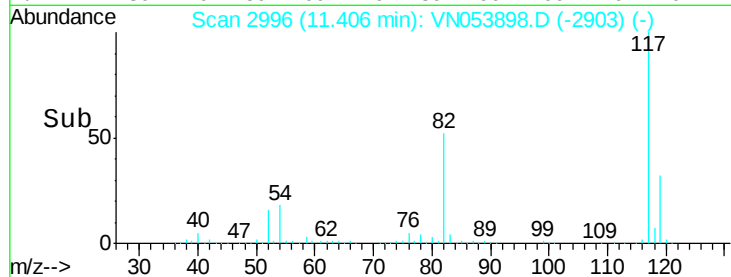
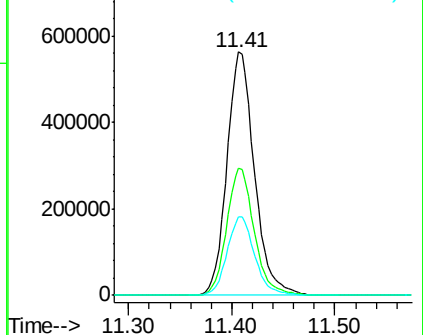
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN053898.D
Acq: 21 Feb 2019 17:51

Instrument :
MSVOA_N
ClientSampleId :
SOIL-PILE

Tot Ion:117 Resp: 1048919
Ion Ratio Lower Upper
117 100
82 52.3 41.4 62.2
119 32.1 25.3 37.9

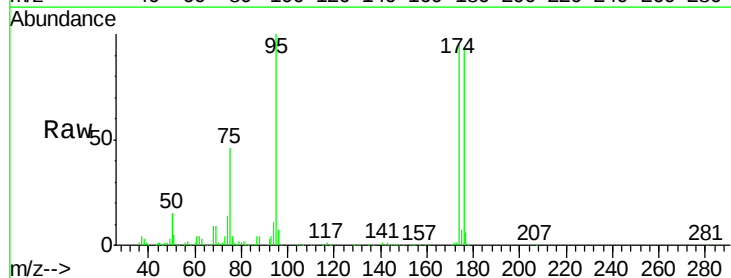


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

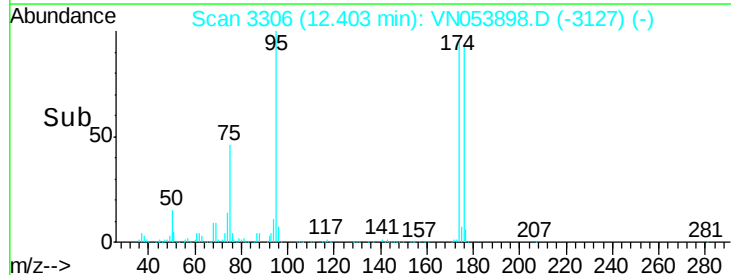
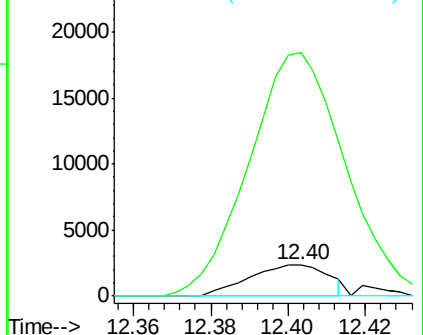


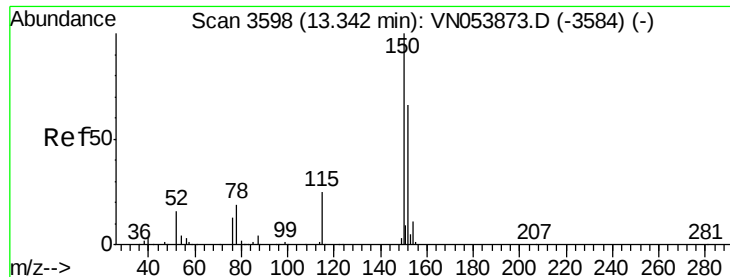
#71
Bromoform
Concen: 0.593 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.28 min
Lab File: VN053898.D
Acq: 21 Feb 2019 17:51

Tgt Ion:173 Resp: 3369
Ion Ratio Lower Upper
173 100
175 802.2 24.3 72.8#
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: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. 0.00 min

Lab File: VN053898.D

Acq: 21 Feb 2019 17:51

Instrument :

MSVOA_N

ClientSampleId :

SOIL-PILE

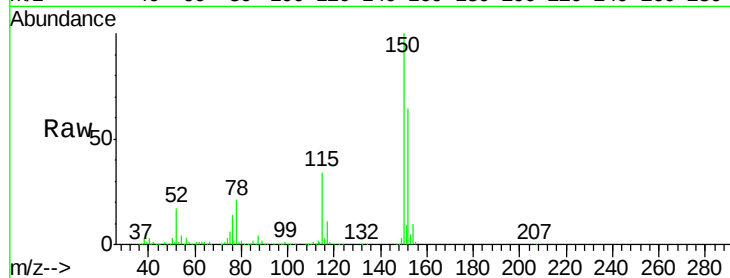
Tot Ion:152 Resp: 435423

Ion Ratio Lower Upper

152 100

115 53.3 27.2 81.6

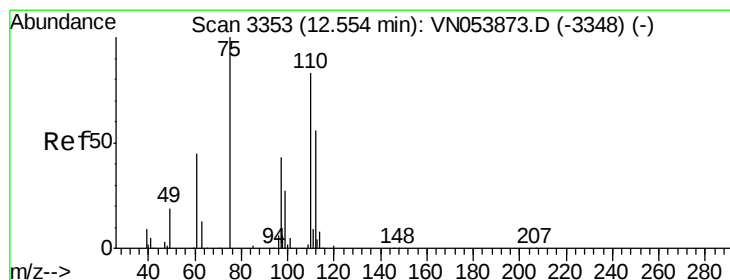
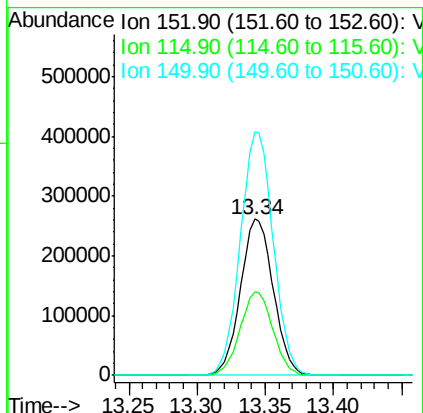
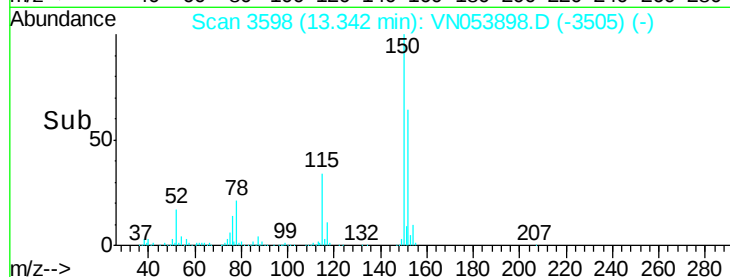
150 156.4 0.0 348.2



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: 32.007 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN053898.D

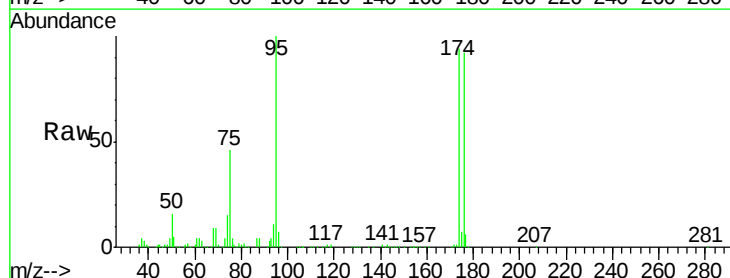
Acq: 21 Feb 2019 17:51

Tgt Ion: 75 Resp: 204588

Ion Ratio Lower Upper

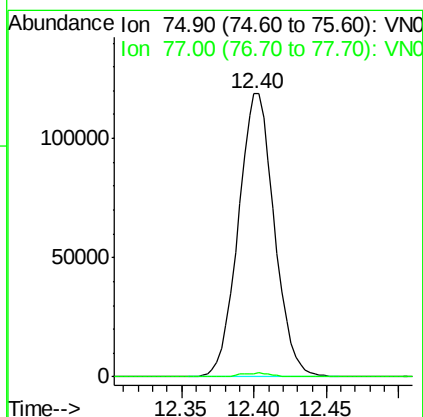
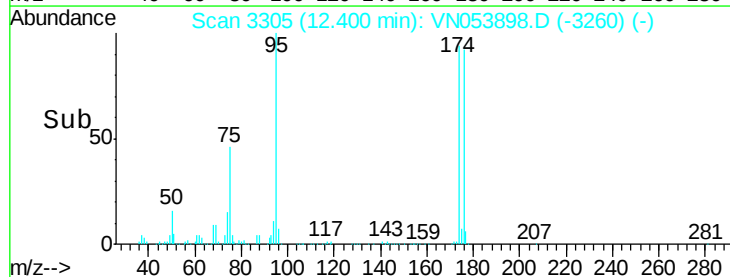
75 100

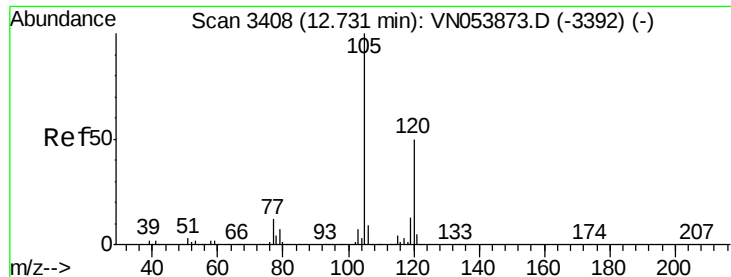
77 1.3 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#80

1,3,5-Trimethylbenzene

Concen: 0.211 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. 0.00 min

Lab File: VN053898.D

Acq: 21 Feb 2019 17:51

Instrument :

MSVOA_N

ClientSampleId :

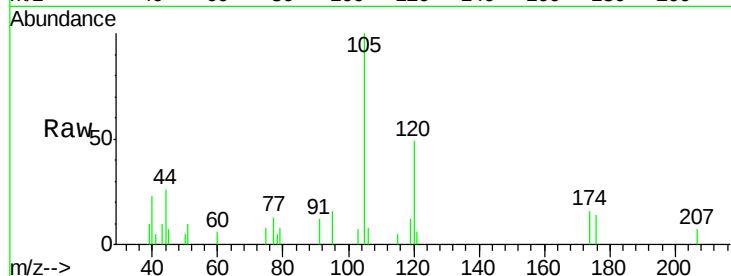
SOIL-PILE

Tot Ion:105 Resp: 5360

Ion Ratio Lower Upper

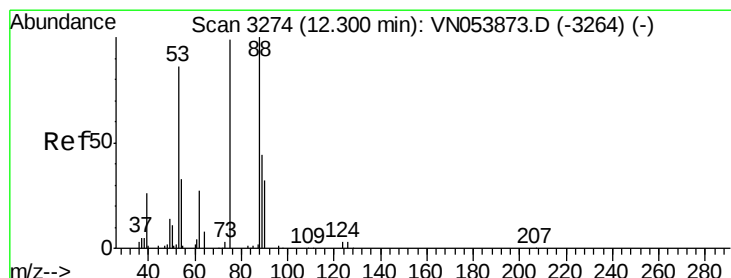
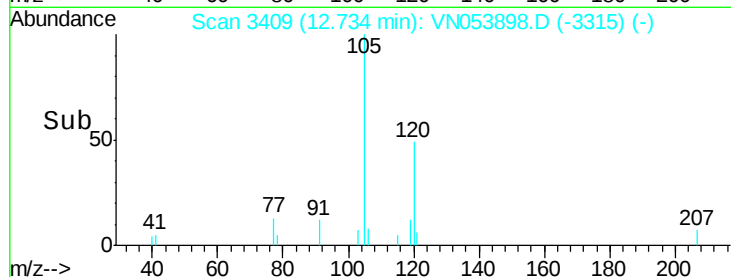
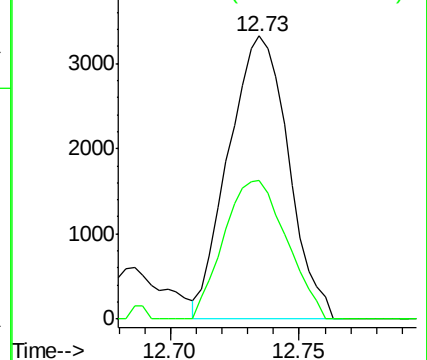
105 100

120 51.2 25.1 75.2



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#81

trans-1,4-Dichloro-2-butene

Concen: 105.663 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN053898.D

Acq: 21 Feb 2019 17:51

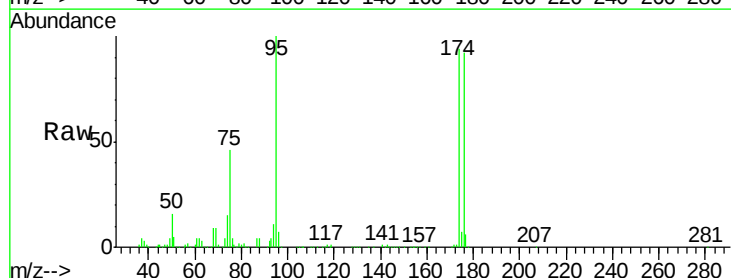
Tgt Ion: 75 Resp: 204588

Ion Ratio Lower Upper

75 100

53 0.1 68.6 102.8#

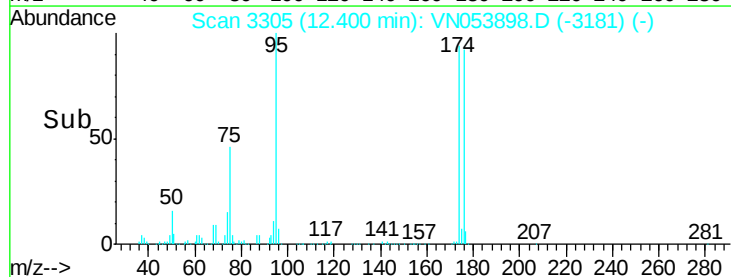
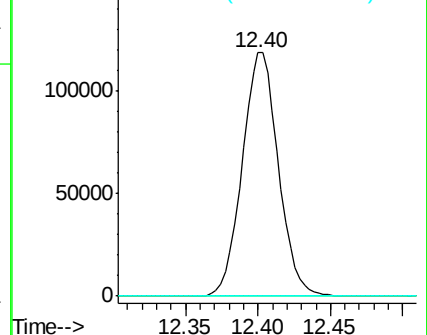
89 0.0 35.3 52.9#

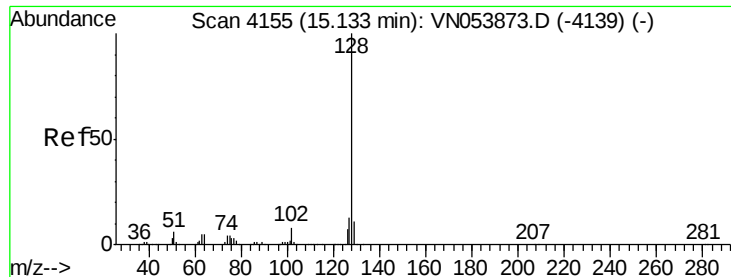


Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO





#95

Naphthalene

Concen: 4.725 ug/l

RT: 15.13 min Scan# 4154

Delta R.T. -0.00 min

Lab File: VN053898.D

Acq: 21 Feb 2019 17:51

Instrument :

MSVOA_N

ClientSampleId :

SOIL-PILE

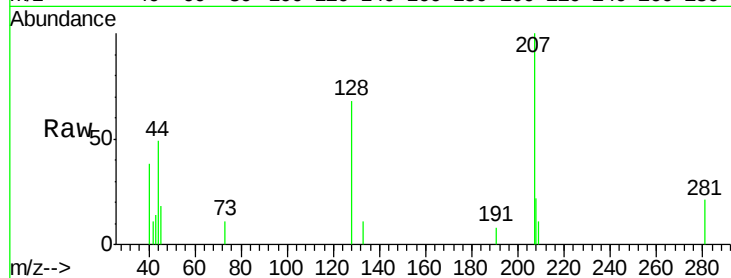
Tot Ion:128 Resp: 2147

Ion Ratio Lower Upper

128 100

127 6.6 10.2 15.2#

129 2.7 8.6 12.8#



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

