

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN082218\
 Data File : VN050833.D
 Acq On : 22 Aug 2018 20:48
 Operator : MD\SY
 Sample : J4580-04
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 RN-SOIL

Quant Time: Aug 23 01:10:12 2018
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N082118W.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 22 05:38:12 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	695338	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1135921	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	967543	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	350327	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	447871	53.50	ug/l	0.00
Spiked Amount			Recovery	=	107.00%	
35) Dibromofluoromethane	7.59	113	424043	46.92	ug/l	0.00
Spiked Amount			Recovery	=	93.84%	
50) Toluene-d8	10.09	98	1544087	45.70	ug/l	0.00
Spiked Amount			Recovery	=	91.40%	
62) 4-Bromofluorobenzene	12.40	95	434738	38.72	ug/l	0.00
Spiked Amount			Recovery	=	77.44%	

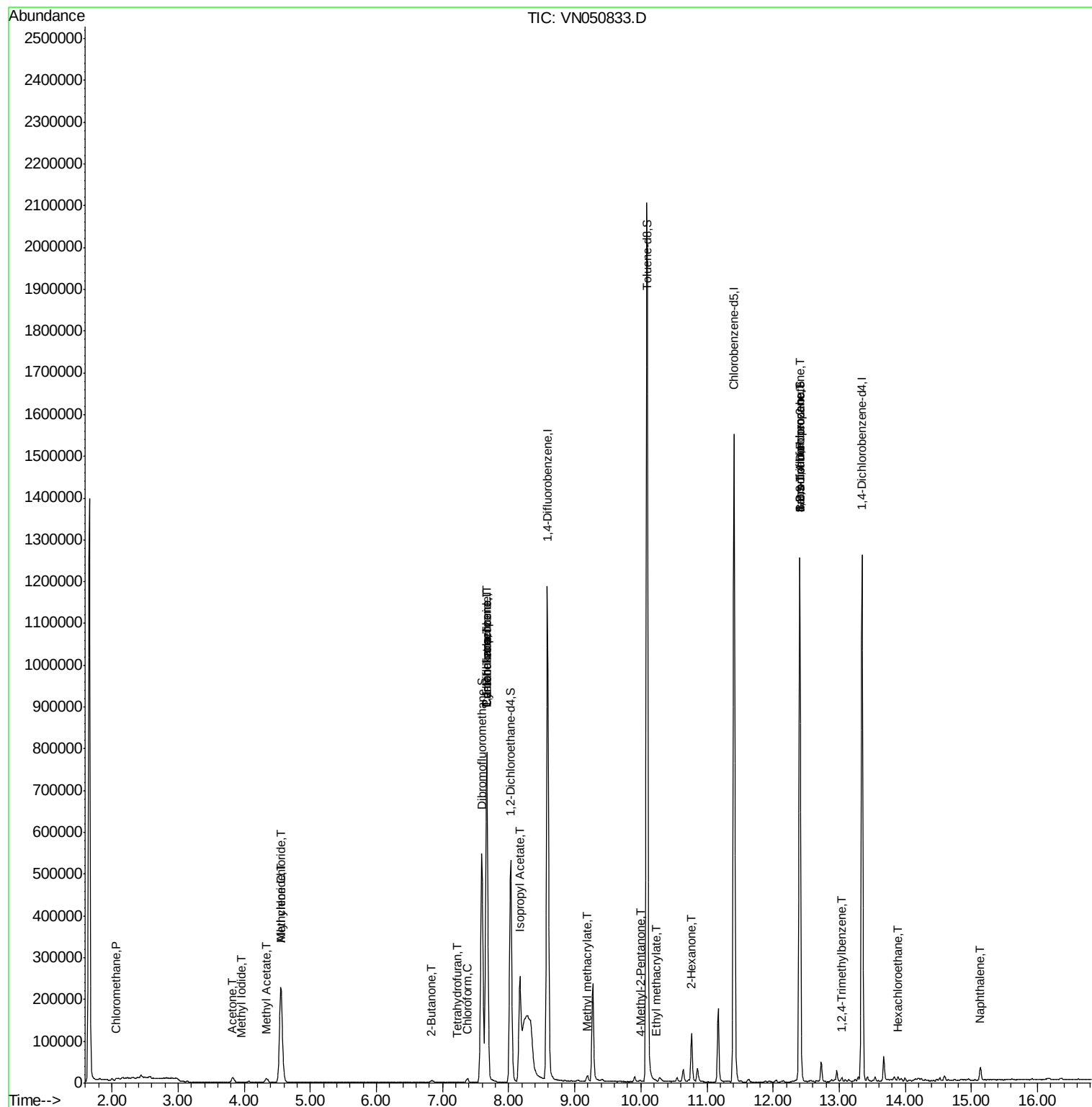
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.06	50	2372	0.21	ug/l	96
5) Bromomethane	2.57	94	2717	Below Cal		85
10) Methyl Iodide	3.95	142	398	6.39	ug/l #	43
14) Allyl chloride	4.56	41	6787	0.56	ug/l #	26
16) Acetone	3.83	43	22253	4.28	ug/l	88
18) Methyl Acetate	4.33	43	16955	2.15	ug/l	100
20) Methylene Chloride	4.55	84	181996	19.29	ug/l	97
25) 2-Butanone	6.83	43	1058	0.31	ug/l	91
29) Tetrahydrofuran	7.21	42	442	0.23	ug/l #	33
30) Chloroform	7.38	83	10626	0.69	ug/l	93
31) Cyclohexane	7.67	56	11873	1.29	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	47054	3.51	ug/l #	48
38) Carbon Tetrachloride	7.67	117	60769	4.48	ug/l #	17
43) Isopropyl Acetate	8.17	43	316739	23.92	ug/l	92
48) Methyl methacrylate	9.18	41	8227	1.22	ug/l #	19
51) 4-Methyl-2-Pentanone	9.99	43	2333	0.30	ug/l #	82
56) Ethyl methacrylate	10.23	69	2287	2.54	ug/l #	46
59) 2-Hexanone	10.77	43	15760	3.00	ug/l #	60
71) Bromoform	12.40	173	2436	0.38	ug/l #	1
75) 1,1,2,2-Tetrachloroethane	12.40	83	341	Below Cal	#	1
76) 1,2,3-Trichloropropane	12.40	75	205532	33.50	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	205532	113.24	ug/l #	15
84) 1,2,4-Trimethylbenzene	13.04	105	5687	0.24	ug/l	99
90) Hexachloroethane	13.89	117	339	0.26	ug/l #	4
95) Naphthalene	15.14	128	27497	7.15	ug/l	98

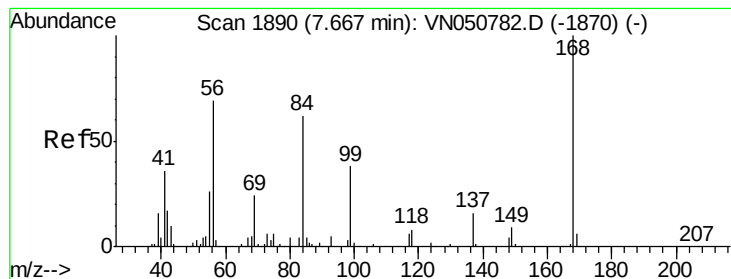
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Wed Aug 22 05:38:12 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1891

Delta R.T. 0.00 min

Lab File: VN050833.D

Acq: 22 Aug 2018 20:48

Instrument :

MSVOA_N

ClientSampled :

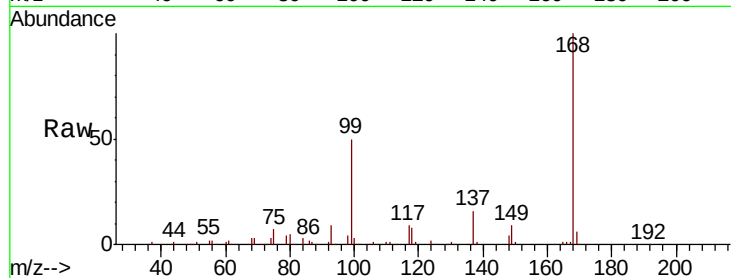
RN-SOIL

Tot Ion:168 Resp: 695338

Ion Ratio Lower Upper

168 100

99 50.5 39.6 59.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.67

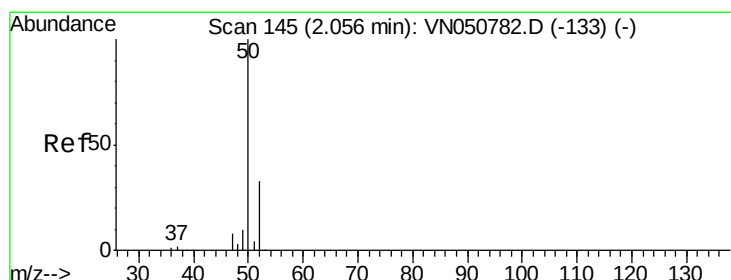
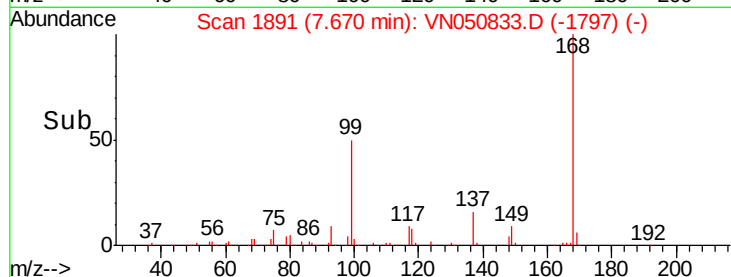
300000

200000

100000

0

Time-->



#3

Chloromethane

Concen: 0.21 ug/l

RT: 2.06 min Scan# 146

Delta R.T. 0.00 min

Lab File: VN050833.D

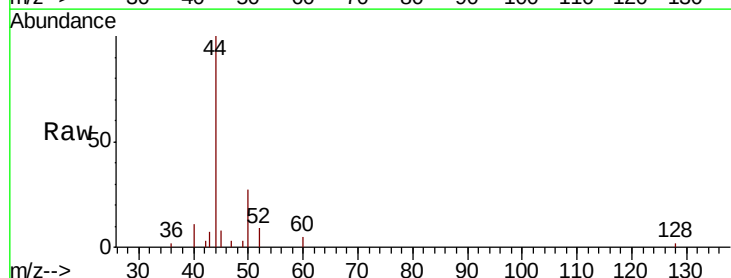
Acq: 22 Aug 2018 20:48

Tgt Ion: 50 Resp: 2372

Ion Ratio Lower Upper

50 100

52 35.3 26.3 39.5



Abundance Ion 49.90 (49.60 to 50.60): VNO

Ion 51.90 (51.60 to 52.60): VNO

2000

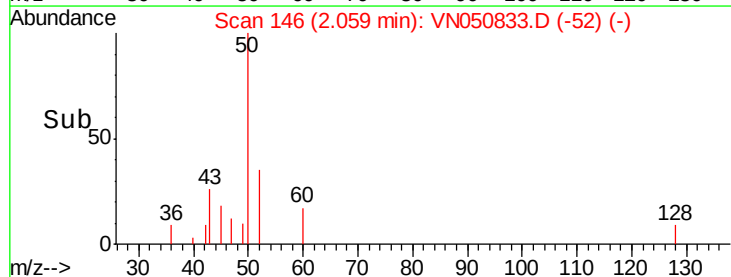
1500

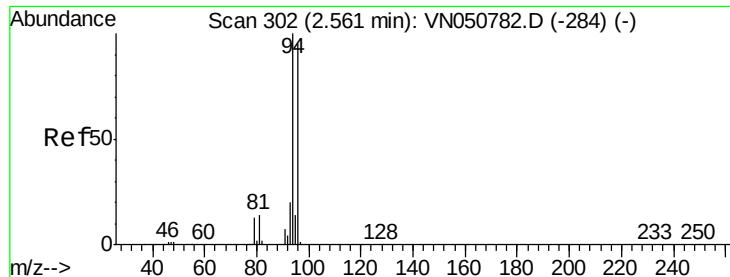
1000

500

0

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 2.57 min Scan# 306

Delta R.T. 0.01 min

Lab File: VN050833.D

Acq: 22 Aug 2018 20:48

Instrument :

MSVOA_N

ClientSampled :

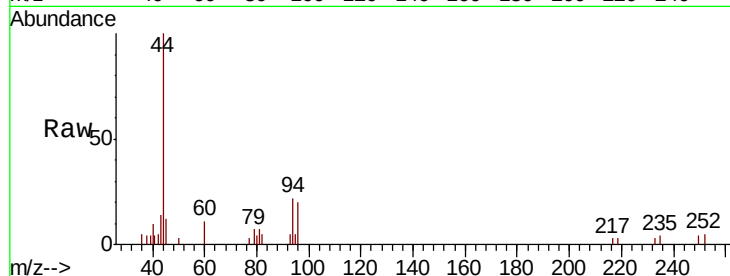
RN-SOIL

Tot Ion: 94 Resp: 2717

Ion Ratio Lower Upper

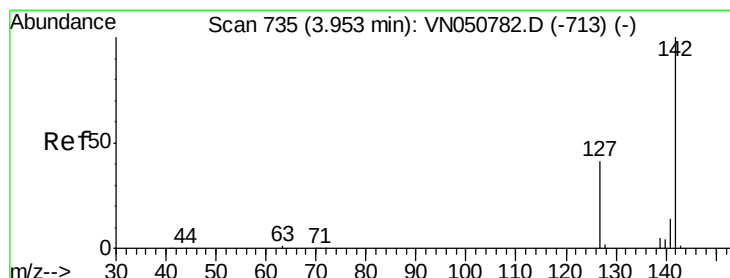
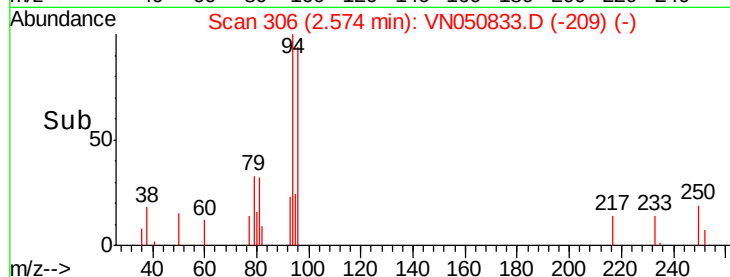
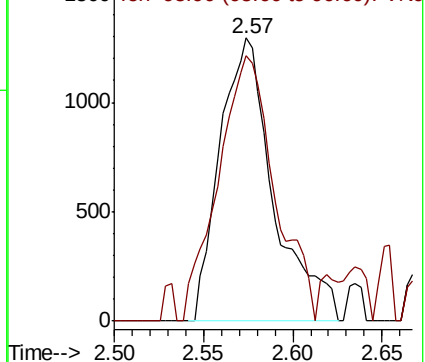
94 100

96 80.4 76.2 114.2



Abundance Ion 93.90 (93.60 to 94.60): VN050833.D (-209) (-)

Ion 95.90 (95.60 to 96.60): VN050833.D (-209) (-)



#10

Methyl Iodide

Concen: 6.39 ug/l

RT: 3.95 min Scan# 734

Delta R.T. -0.00 min

Lab File: VN050833.D

Acq: 22 Aug 2018 20:48

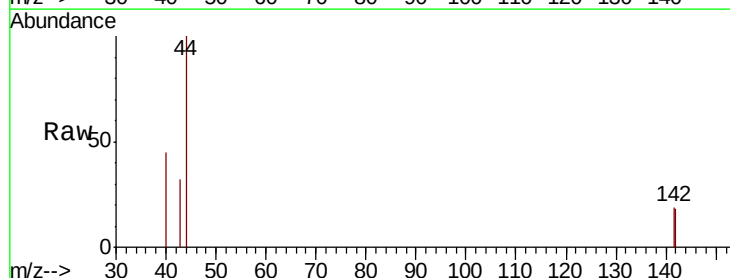
Tgt Ion: 142 Resp: 398

Ion Ratio Lower Upper

142 100

127 0.0 31.7 47.5#

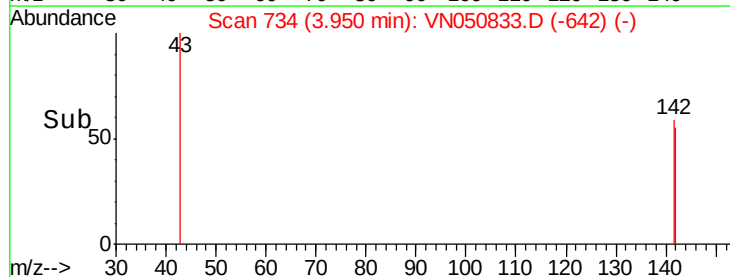
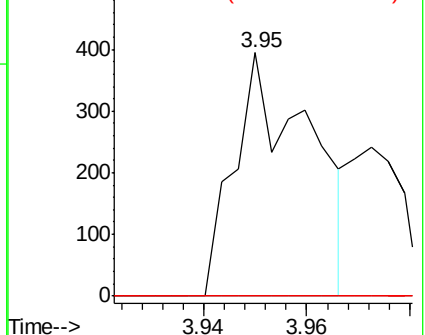
141 0.0 11.4 17.0#

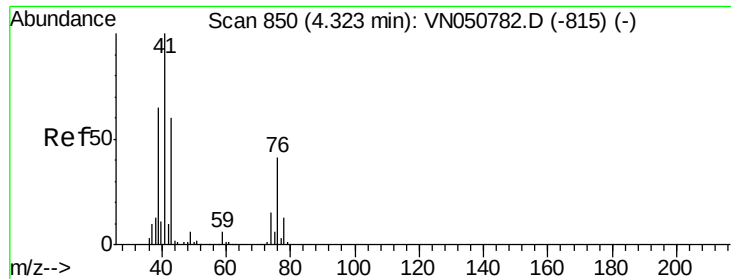


Abundance Ion 141.80 (141.50 to 142.50): VN050833.D (-642) (-)

Ion 126.80 (126.50 to 127.50): VN050833.D (-642) (-)

Ion 140.80 (140.50 to 141.50): VN050833.D (-642) (-)

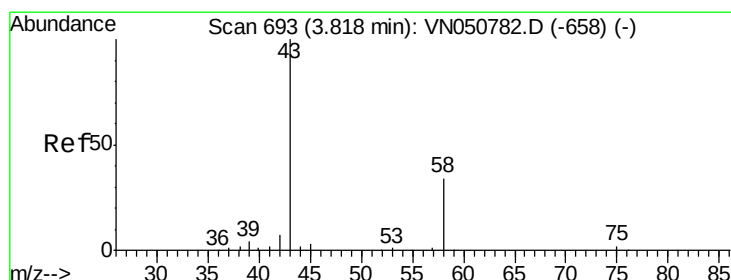
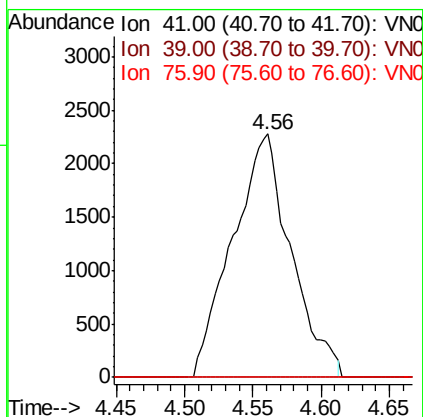
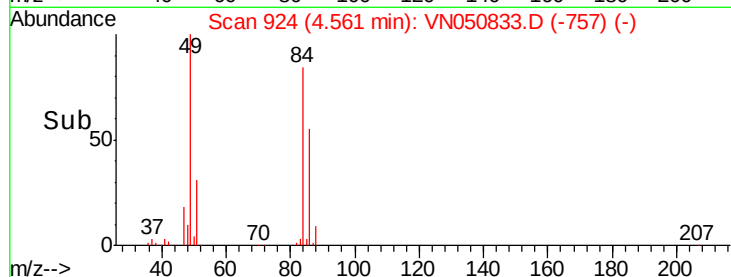
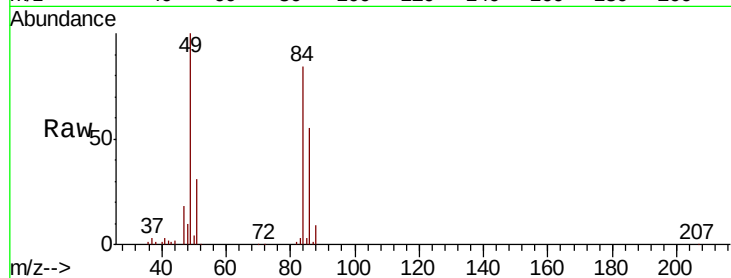




#14
Allvl chloride
Concen: 0.56 ug/l
RT: 4.56 min Scan# 924
Delta R.T. 0.24 min
Lab File: VN050833.D
Acq: 22 Aug 2018 20:48

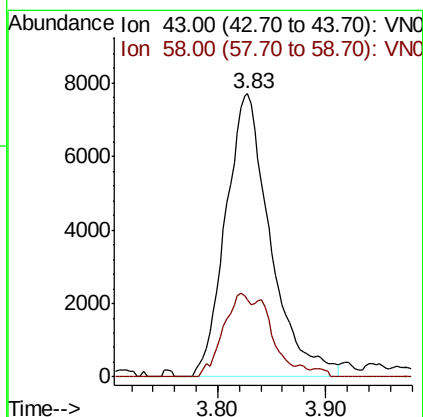
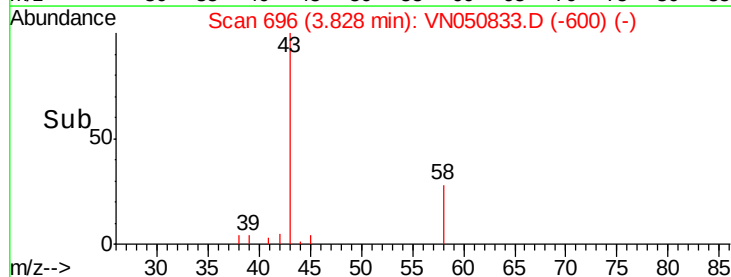
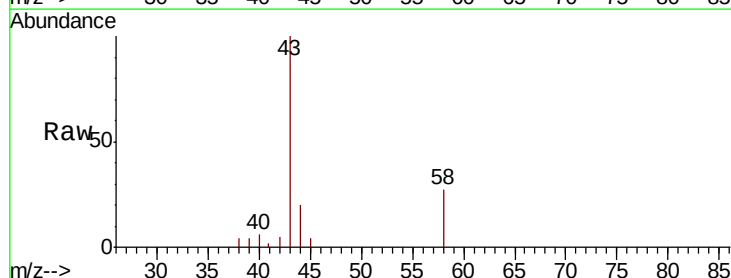
Instrument :
MSVOA_N
ClientSampled :
RN-SOIL

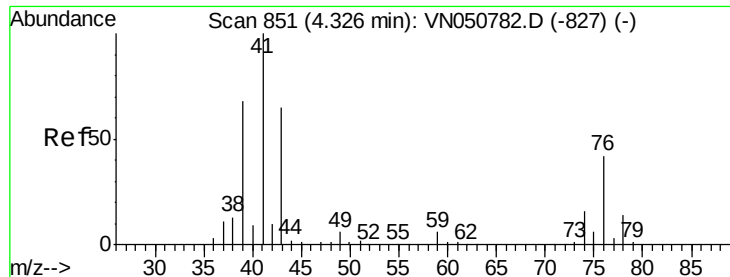
Tot Ion: 41 Resp: 6787
Ion Ratio Lower Upper
41 100
39 0.0 50.2 75.2#
76 0.0 29.8 44.8#



#16
Acetone
Concen: 4.28 ug/l
RT: 3.83 min Scan# 696
Delta R.T. 0.01 min
Lab File: VN050833.D
Acq: 22 Aug 2018 20:48

Tgt Ion: 43 Resp: 22253
Ion Ratio Lower Upper
43 100
58 27.3 27.2 40.8

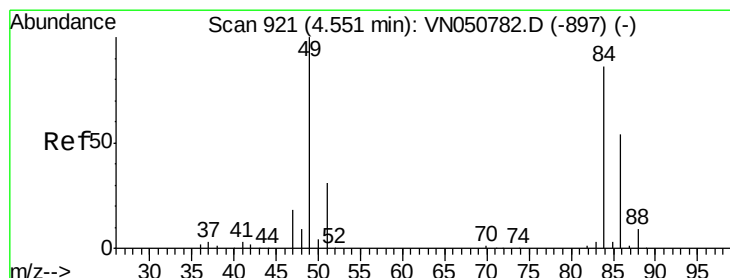
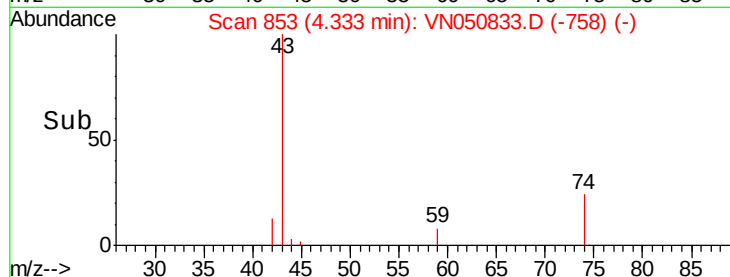
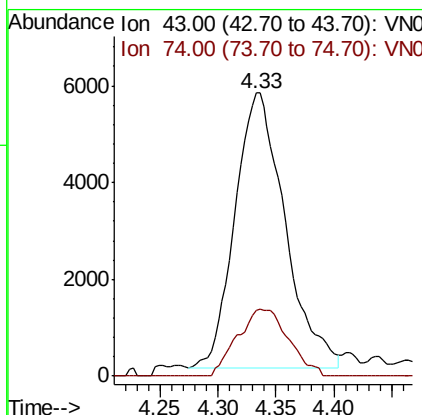
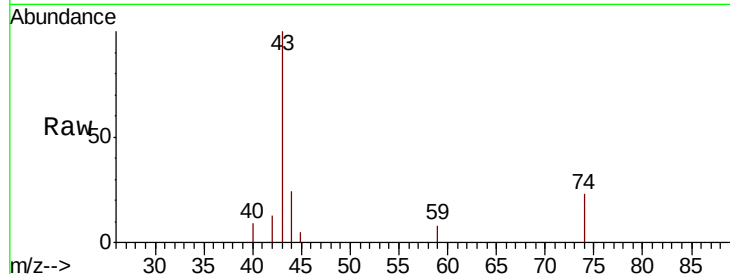




#18
Methvl Acetate
Concen: 2.15 ug/l
RT: 4.33 min Scan# 853
Delta R.T. 0.01 min
Lab File: VN050833.D
Acq: 22 Aug 2018 20:48

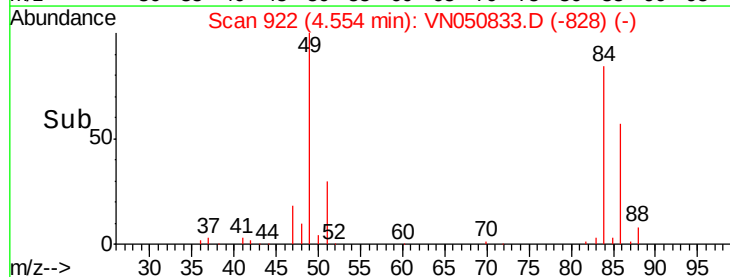
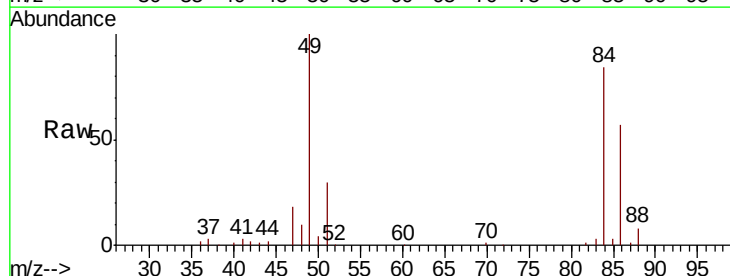
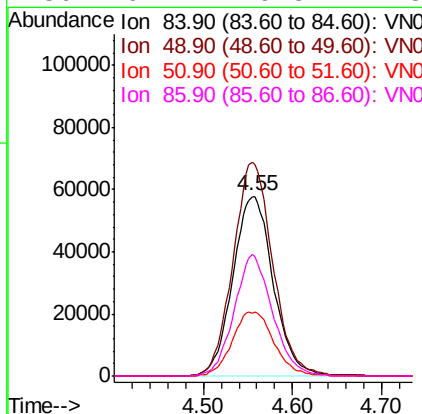
Instrument :
MSVOA_N
ClientSampleId :
RN-SOIL

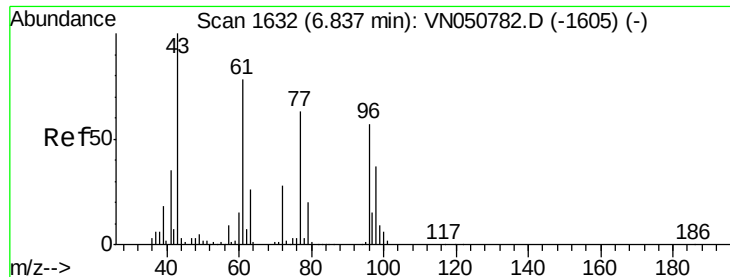
Tot Ion: 43 Resp: 16955
Ion Ratio Lower Upper
43 100
74 25.0 19.8 29.8



#20
Methylene Chloride
Concen: 19.29 ug/l
RT: 4.55 min Scan# 922
Delta R.T. 0.00 min
Lab File: VN050833.D
Acq: 22 Aug 2018 20:48

Tgt Ion: 84 Resp: 181996
Ion Ratio Lower Upper
84 100
49 118.5 93.2 139.8
51 35.2 29.0 43.6
86 67.4 49.8 74.8





#25

2-Butanone

Concen: 0.31 ug/l

RT: 6.83 min Scan# 1630

Delta R.T. -0.01 min

Lab File: VN050833.D

Acq: 22 Aug 2018 20:48

Instrument :

MSVOA_N

ClientSampled :

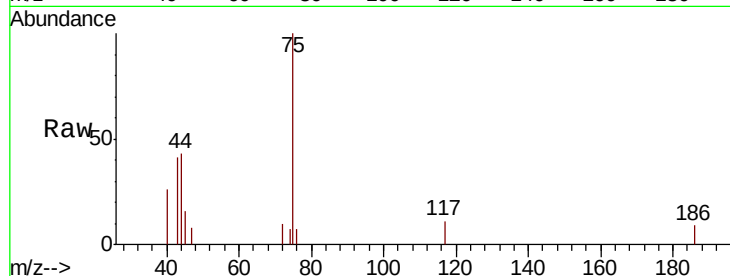
RN-SOIL

Tot Ion: 43 Resp: 1058

Ion Ratio Lower Upper

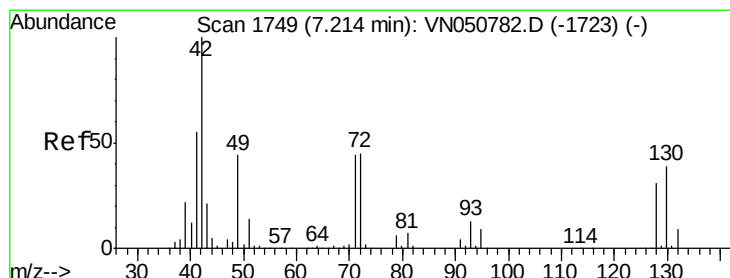
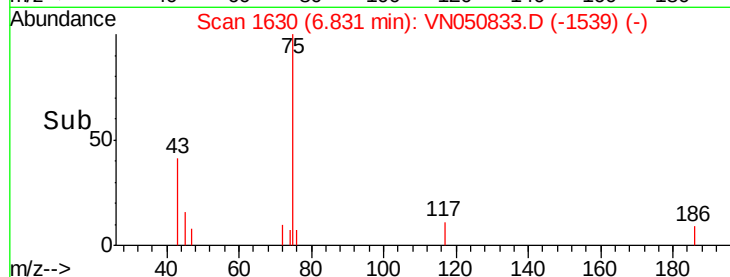
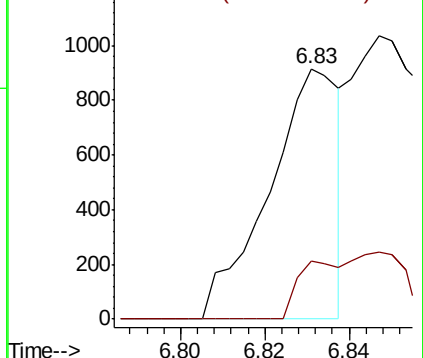
43 100

72 23.4 22.3 33.5



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0



#29

Tetrahydrofuran

Concen: 0.23 ug/l

RT: 7.21 min Scan# 1747

Delta R.T. -0.01 min

Lab File: VN050833.D

Acq: 22 Aug 2018 20:48

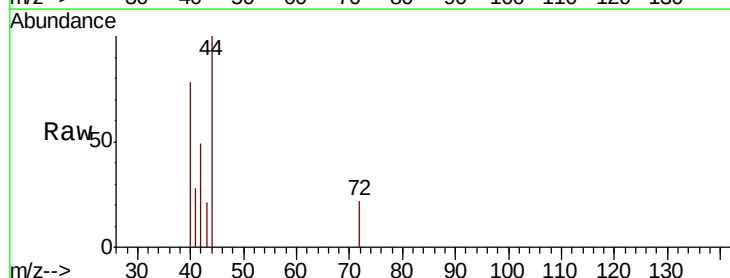
Tgt Ion: 42 Resp: 442

Ion Ratio Lower Upper

42 100

72 0.0 35.5 53.3#

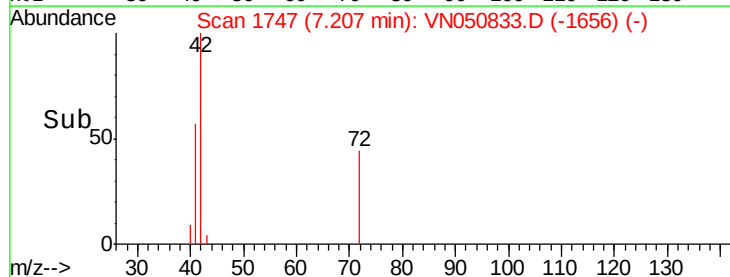
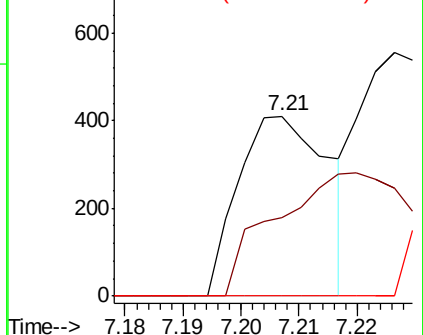
71 0.0 33.7 50.5#

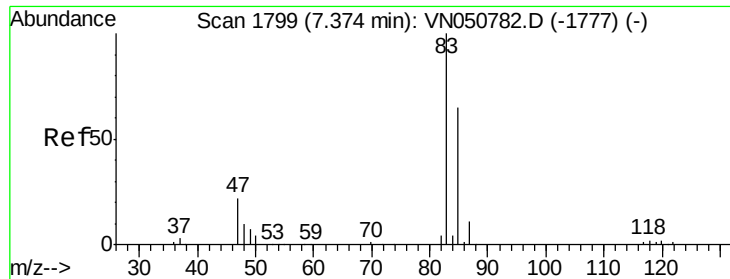


Abundance Ion 42.00 (41.70 to 42.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

Ion 71.00 (70.70 to 71.70): VN0

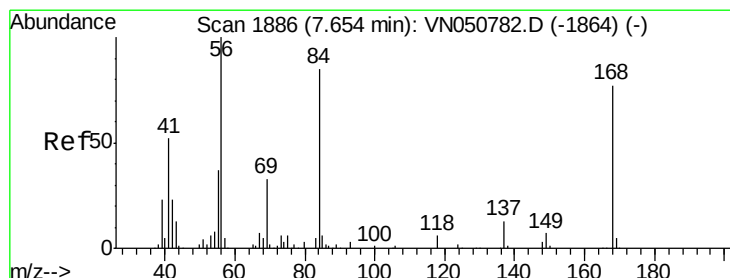
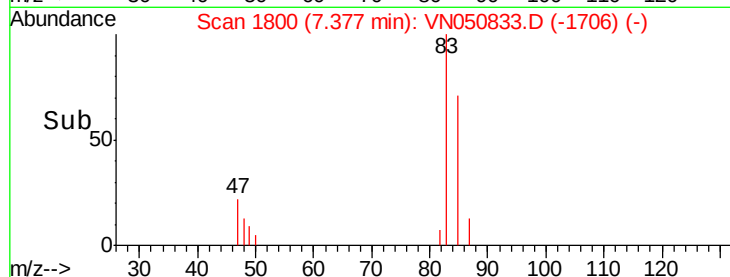
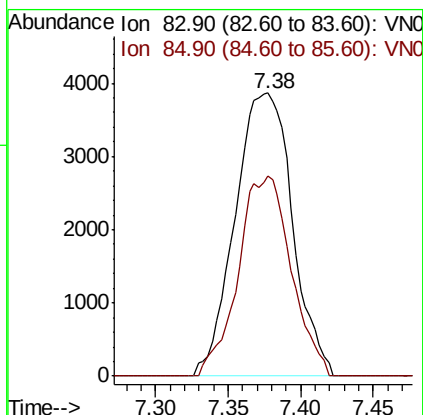
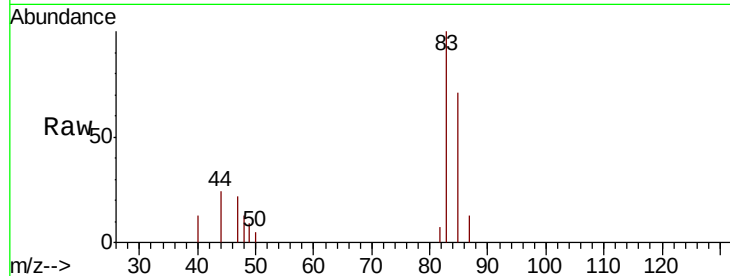




#30
Chloroform
Concen: 0.69 ug/l
RT: 7.38 min Scan# 1800
Delta R.T. 0.00 min
Lab File: VN050833.D
Acq: 22 Aug 2018 20:48

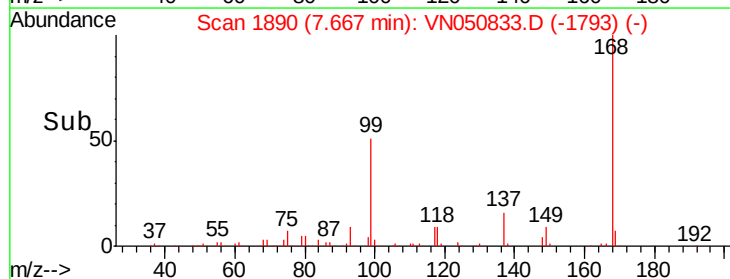
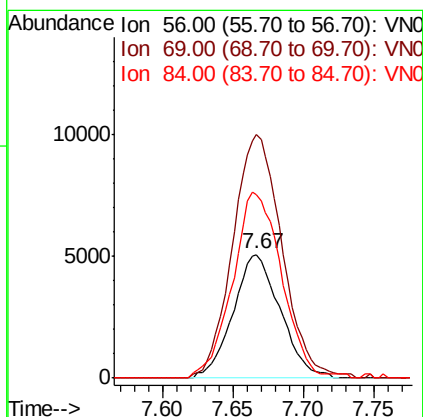
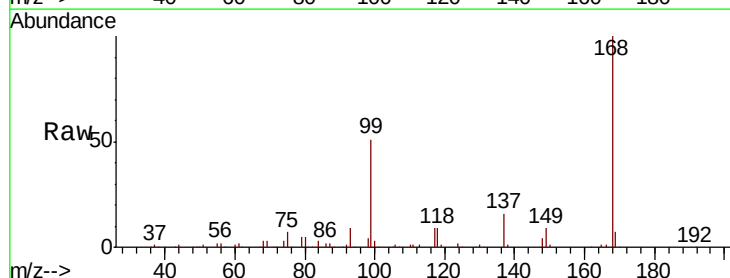
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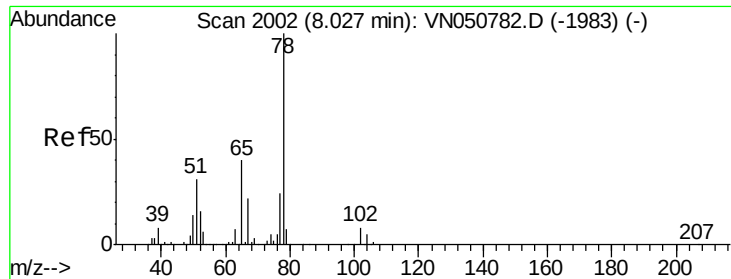
Tot Ion: 83 Resp: 10626
Ion Ratio Lower Upper
83 100
85 70.6 52.2 78.4



#31
Cyclohexane
Concen: 1.29 ug/l
RT: 7.67 min Scan# 1890
Delta R.T. 0.01 min
Lab File: VN050833.D
Acq: 22 Aug 2018 20:48

Tgt Ion: 56 Resp: 11873
Ion Ratio Lower Upper
56 100
69 197.3 26.2 39.4#
84 148.3 68.3 102.5#

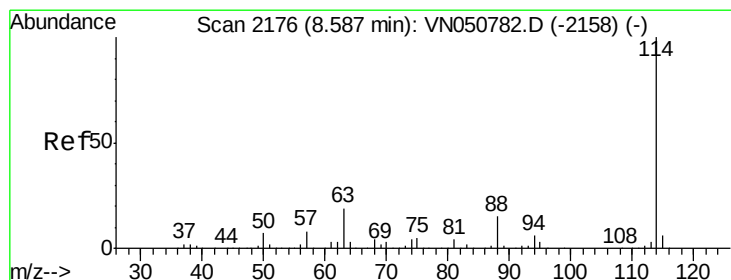
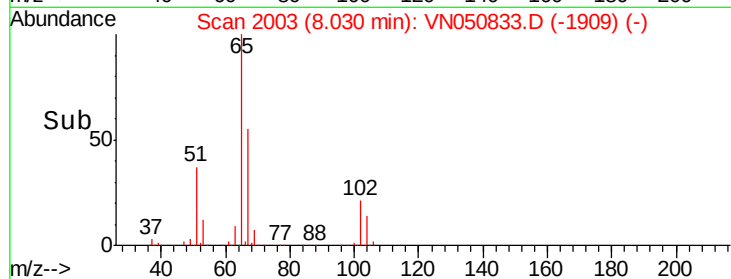
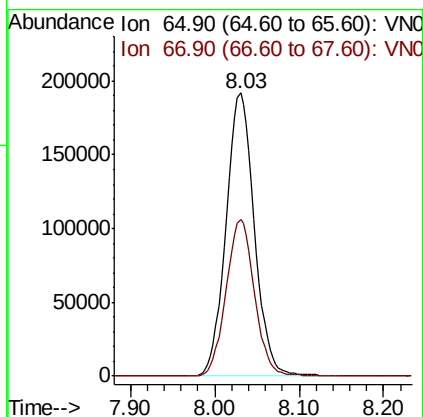
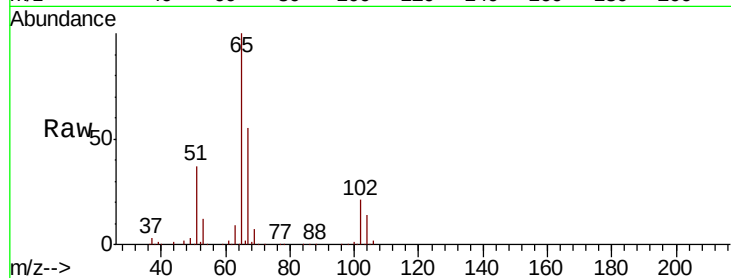




#33
 1,2-Dichloroethane-d4
 Concen: 53.50 ug/l
 RT: 8.03 min Scan# 2003
 Delta R.T. 0.00 min
 Lab File: VN050833.D
 Acq: 22 Aug 2018 20:48

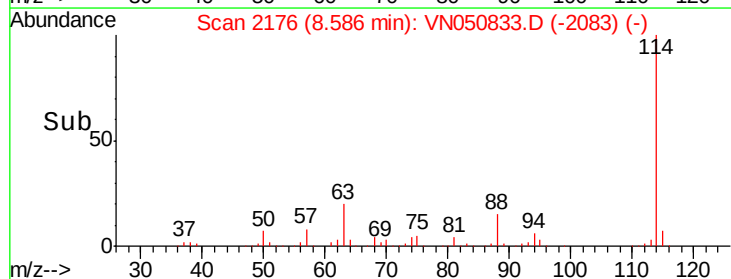
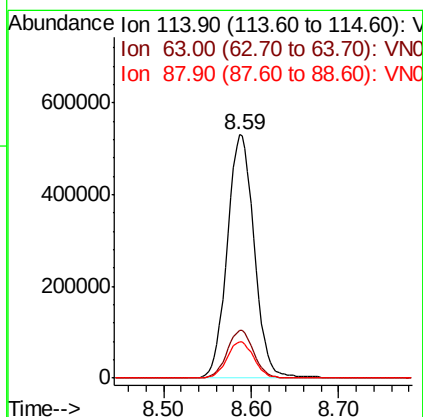
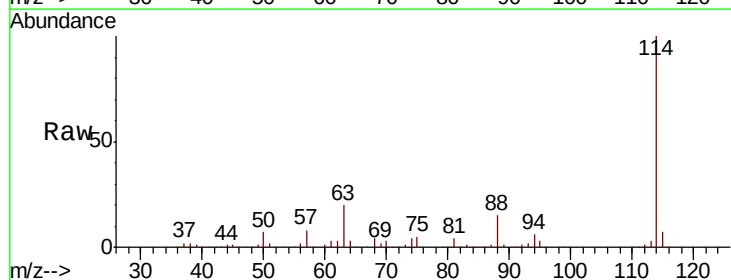
Instrument :
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 RN-SOIL

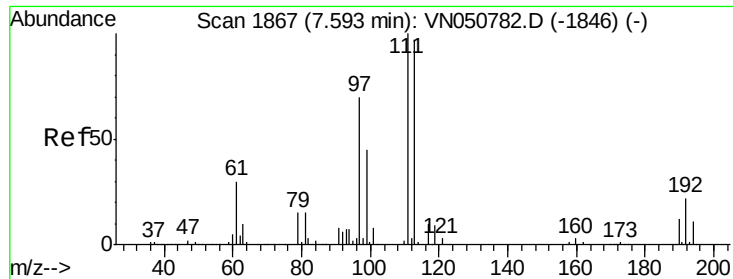
Tot Ion: 65 Resp: 447871
 Ion Ratio Lower Upper
 65 100
 67 55.3 0.0 110.4



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2176
 Delta R.T. -0.00 min
 Lab File: VN050833.D
 Acq: 22 Aug 2018 20:48

Tgt Ion: 114 Resp: 1135921
 Ion Ratio Lower Upper
 114 100
 63 19.5 0.0 38.6
 88 15.2 0.0 30.6

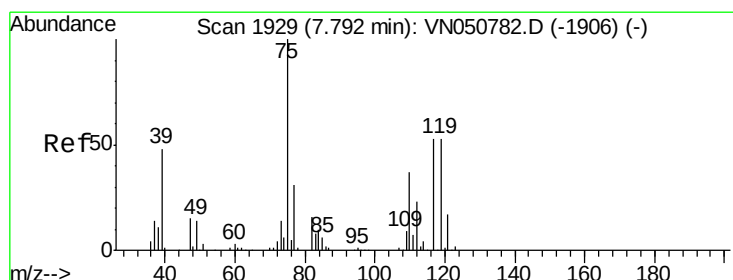
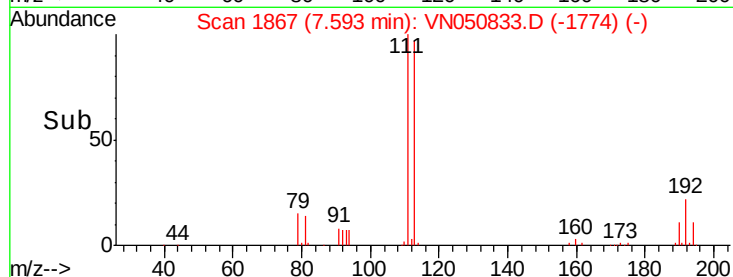
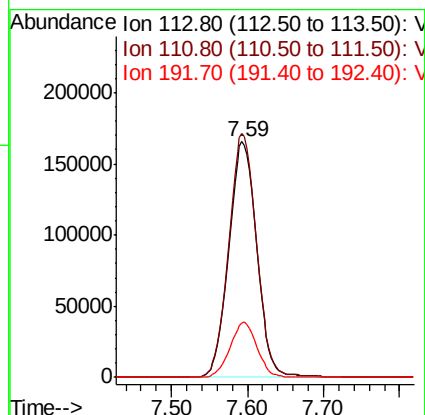
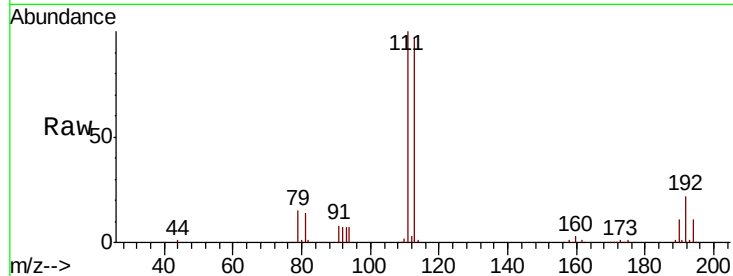




#35
Dibromofluoromethane
Concen: 46.92 ug/l
RT: 7.59 min Scan# 1867
Delta R.T. -0.00 min
Lab File: VN050833.D
Acq: 22 Aug 2018 20:48

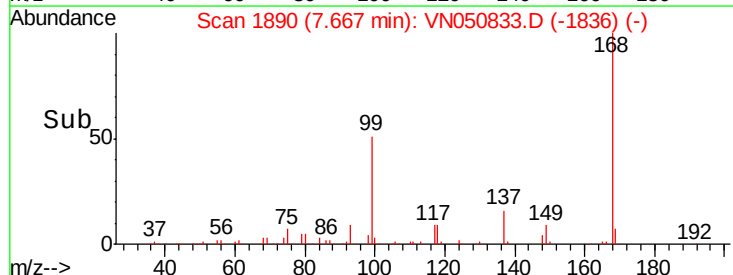
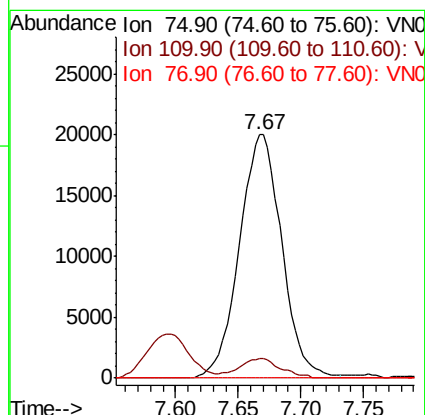
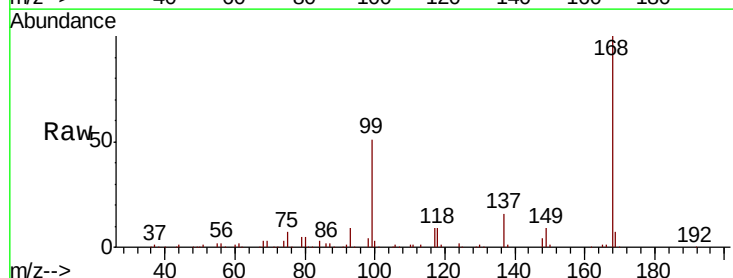
Instrument :
MSVOA_N
ClientSampleId :
RN-SOIL

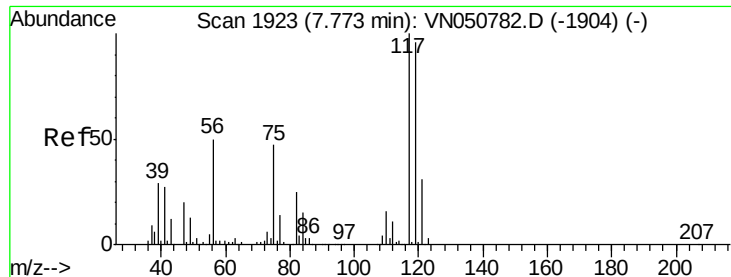
Tot Ion:113 Resp: 424043
Ion Ratio Lower Upper
113 100
111 103.0 82.6 123.8
192 22.6 18.0 27.0



#36
1,1-Dichloropropene
Concen: 3.51 ug/l
RT: 7.67 min Scan# 1890
Delta R.T. -0.13 min
Lab File: VN050833.D
Acq: 22 Aug 2018 20:48

Tgt Ion: 75 Resp: 47054
Ion Ratio Lower Upper
75 100
110 7.7 18.1 54.4#
77 0.0 24.8 37.2#

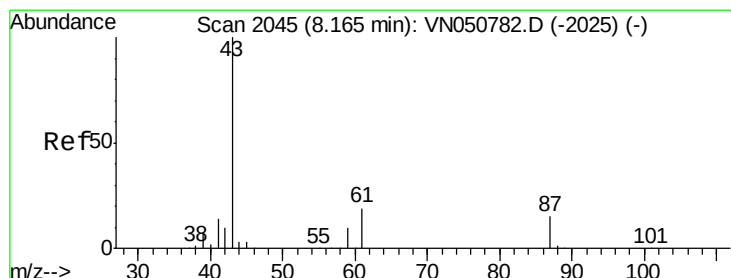
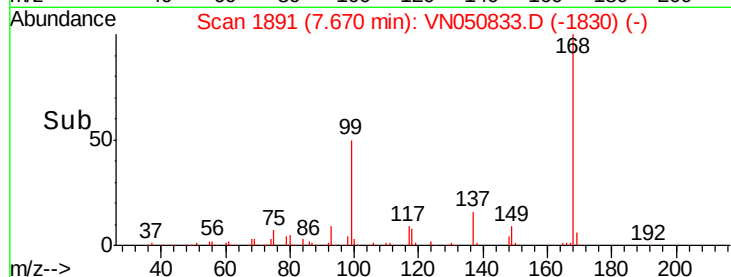
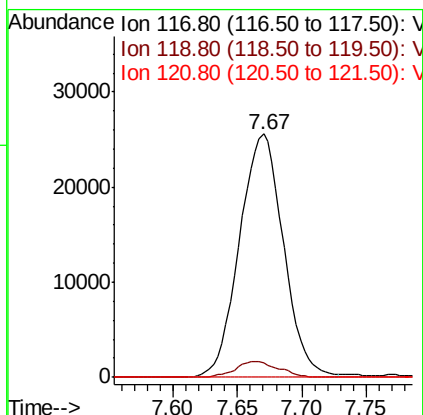
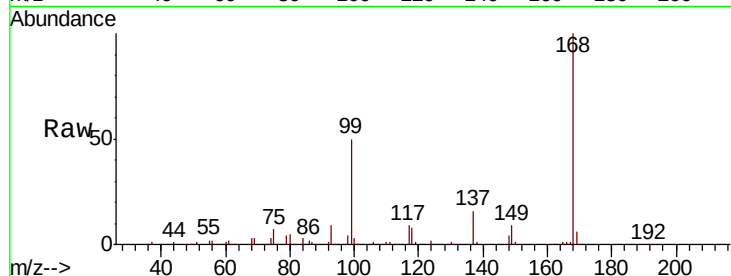




#38
Carbon Tetrachloride
Concen: 4.48 ug/l
RT: 7.67 min Scan# 1891
Delta R.T. -0.10 min
Lab File: VN050833.D
Acq: 22 Aug 2018 20:48

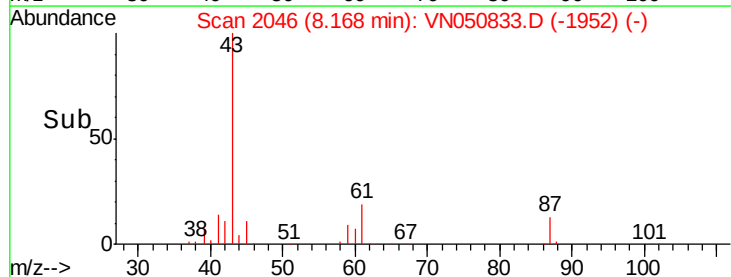
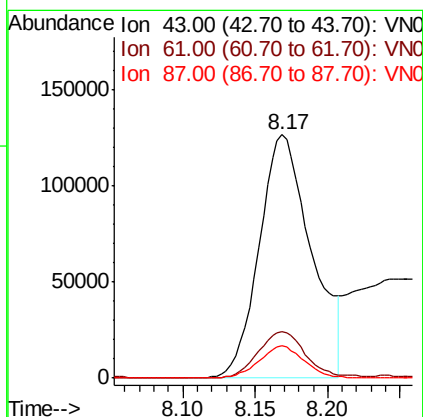
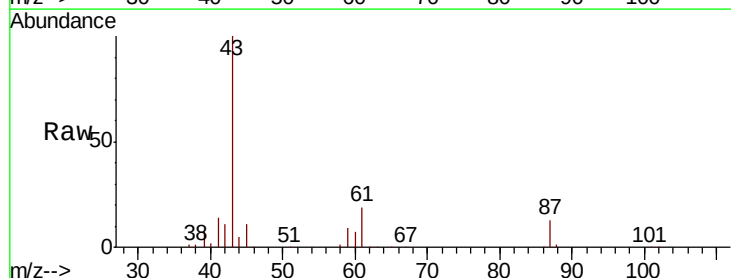
Instrument :
MSVOA_N
ClientSampled :
RN-SOIL

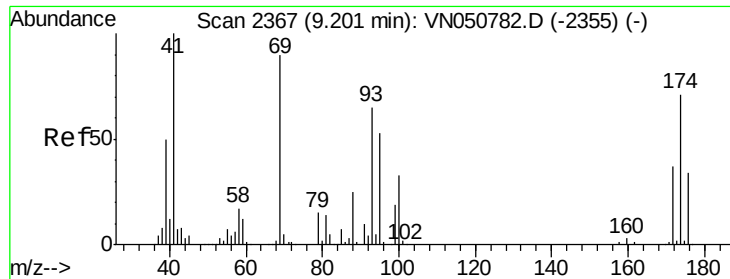
Tot Ion:117 Resp: 60769
Ion Ratio Lower Upper
117 100
119 5.7 76.3 114.5#
121 0.0 24.6 36.8#



#43
Isopropyl Acetate
Concen: 23.92 ug/l
RT: 8.17 min Scan# 2046
Delta R.T. 0.00 min
Lab File: VN050833.D
Acq: 22 Aug 2018 20:48

Tgt Ion: 43 Resp: 316739
Ion Ratio Lower Upper
43 100
61 17.7 17.5 26.3
87 11.5 11.3 16.9

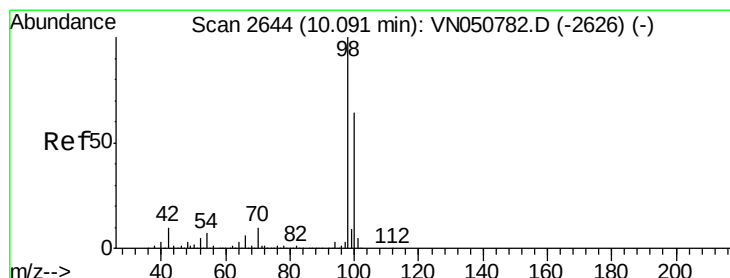
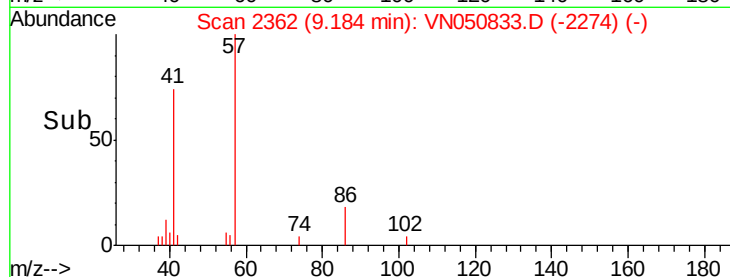
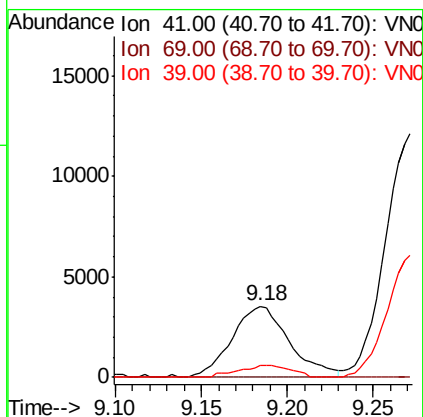
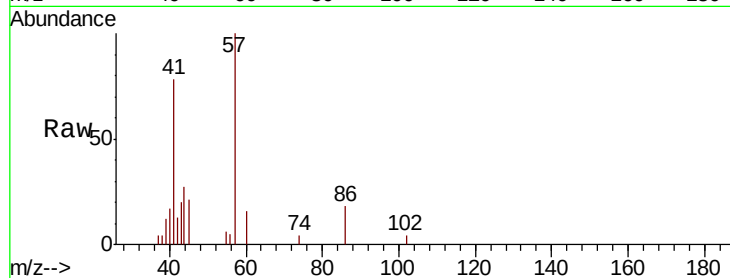




#48
Methvl methacrylate
Concen: 1.22 ug/l
RT: 9.18 min Scan# 2362
Delta R.T. -0.02 min
Lab File: VN050833.D
Acq: 22 Aug 2018 20:48

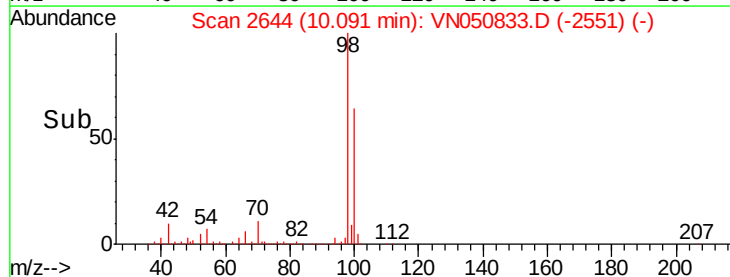
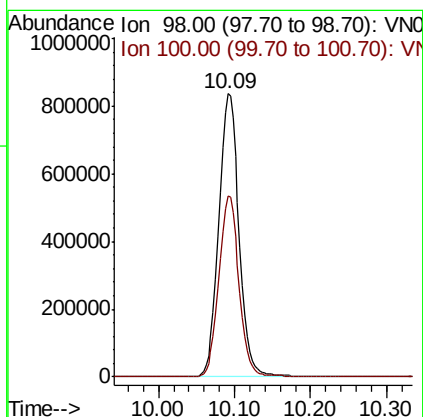
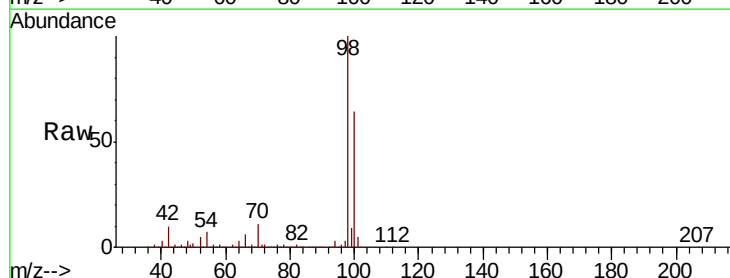
Instrument :
MSVOA_N
ClientSampleId :
RN-SOIL

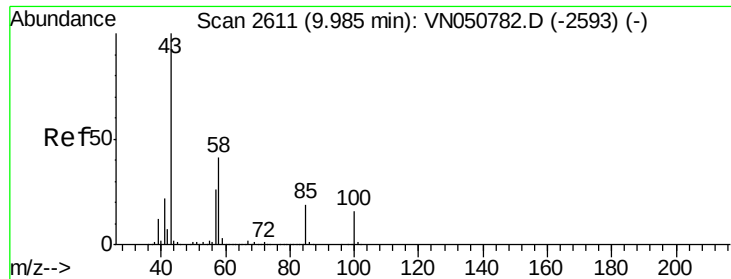
Tot Ion: 41 Resp: 8227
Ion Ratio Lower Upper
41 100
69 0.0 74.7 112.1#
39 15.2 42.2 63.2#



#50
Toluene-d8
Concen: 45.70 ug/l
RT: 10.09 min Scan# 2644
Delta R.T. -0.00 min
Lab File: VN050833.D
Acq: 22 Aug 2018 20:48

Tgt Ion: 98 Resp: 1544087
Ion Ratio Lower Upper
98 100
100 63.7 51.5 77.3





#51

4-Methyl-2-Pentanone

Concen: 0.30 ug/l

RT: 9.99 min Scan# 2613

Delta R.T. 0.01 min

Lab File: VN050833.D

Acq: 22 Aug 2018 20:48

Instrument :

MSVOA_N

ClientSampleId :

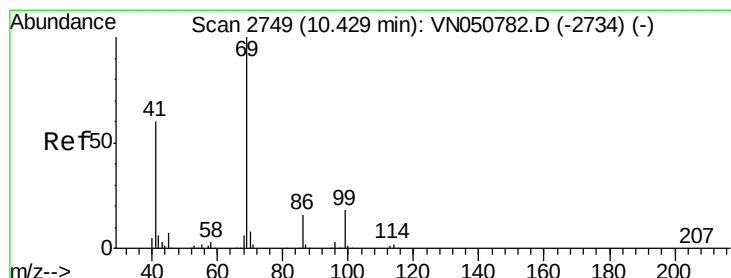
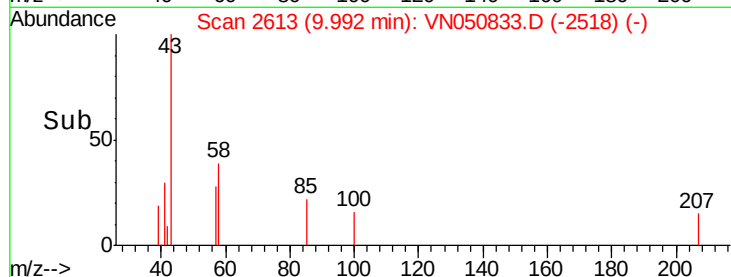
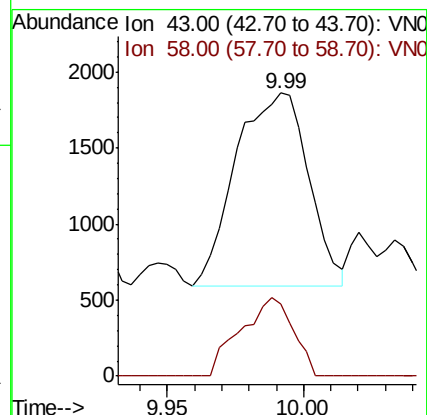
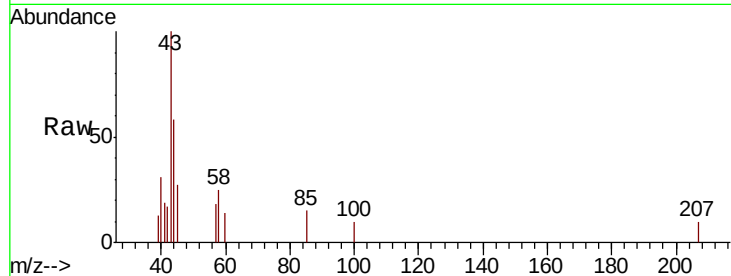
RN-SOIL

Tot Ion: 43 Resp: 2333

Ion Ratio Lower Upper

43 100

58 29.6 32.4 48.6#



#56

Ethyl methacrylate

Concen: 2.54 ug/l

RT: 10.23 min Scan# 2688

Delta R.T. -0.20 min

Lab File: VN050833.D

Acq: 22 Aug 2018 20:48

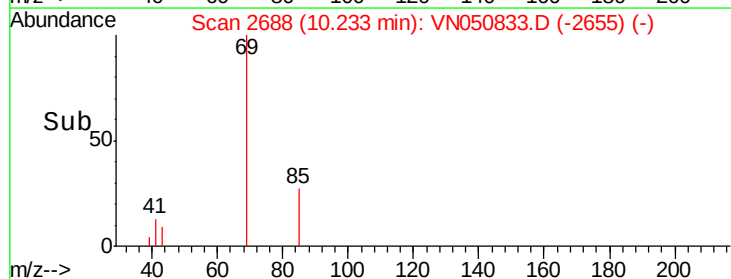
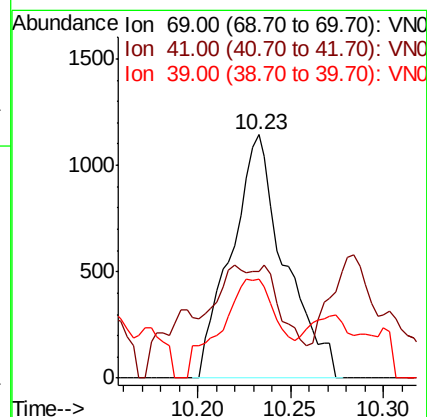
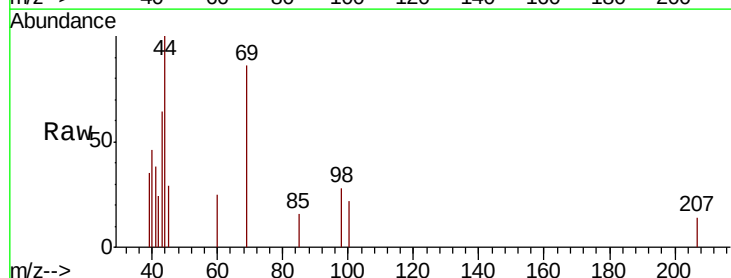
Tgt Ion: 69 Resp: 2287

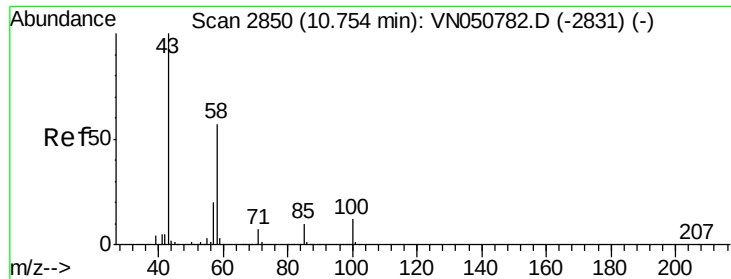
Ion Ratio Lower Upper

69 100

41 8.6 48.3 72.5#

39 43.9 24.0 36.0#

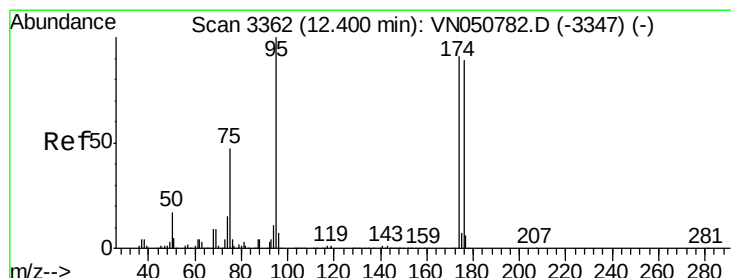
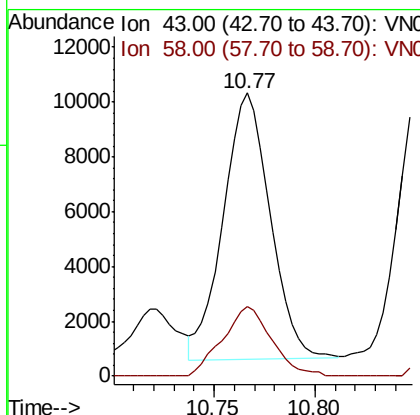
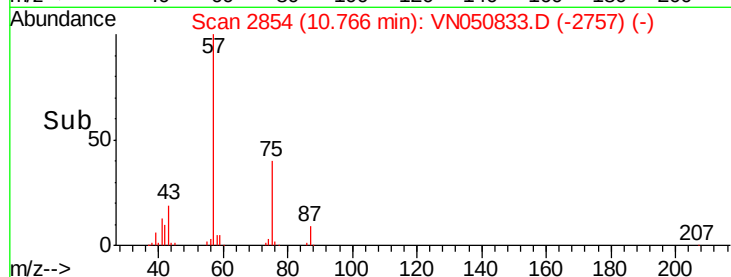
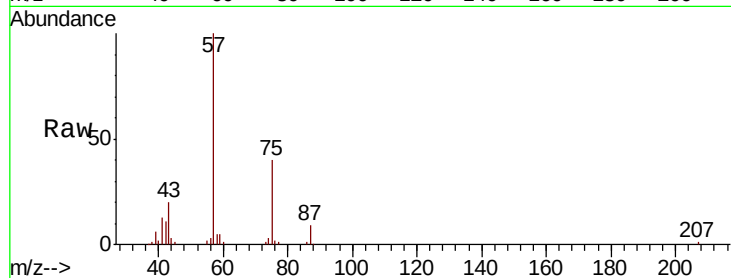




#59
2-Hexanone
Concen: 3.00 ug/l
RT: 10.77 min Scan# 2854
Delta R.T. 0.01 min
Lab File: VN050833.D
Acq: 22 Aug 2018 20:48

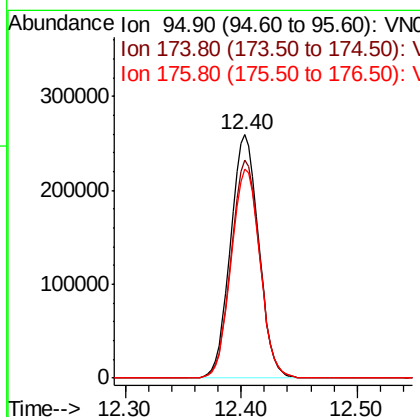
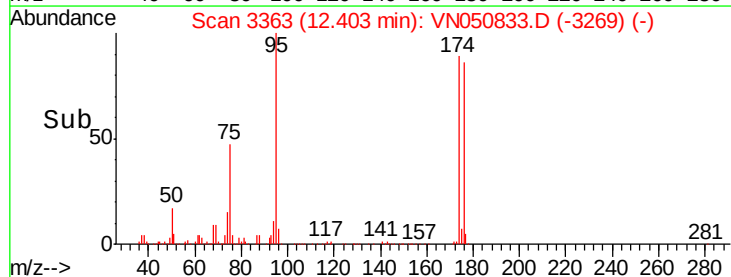
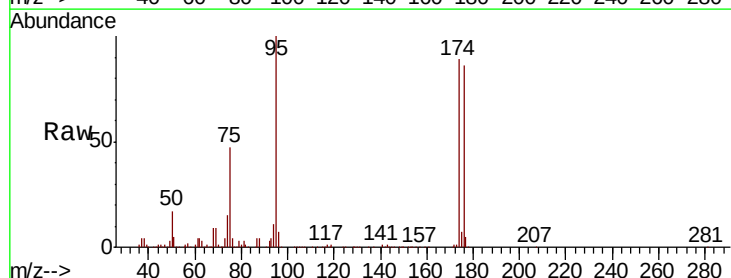
Instrument :
MSVOA_N
ClientSampleId :
RN-SOIL

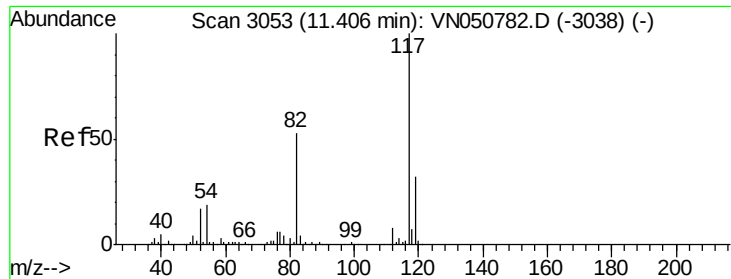
Tot Ion: 43 Resp: 15760
Ion Ratio Lower Upper
43 100
58 27.4 28.3 85.0#



#62
4-Bromofluorobenzene
Concen: 38.72 ug/l
RT: 12.40 min Scan# 3363
Delta R.T. 0.00 min
Lab File: VN050833.D
Acq: 22 Aug 2018 20:48

Tgt Ion: 95 Resp: 434738
Ion Ratio Lower Upper
95 100
174 90.3 0.0 183.0
176 87.6 0.0 178.8

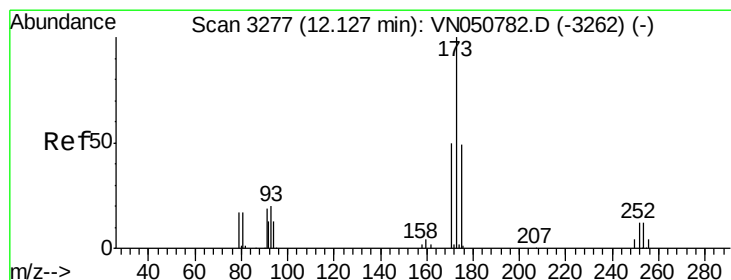
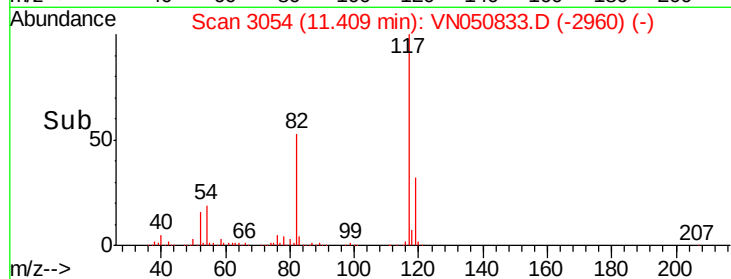
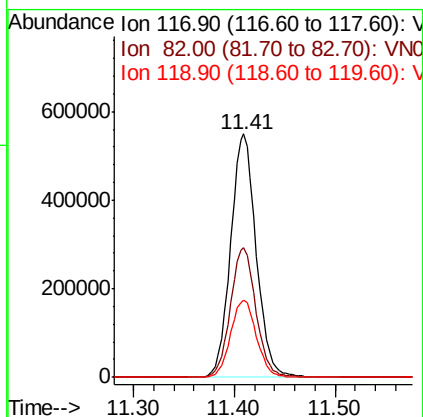
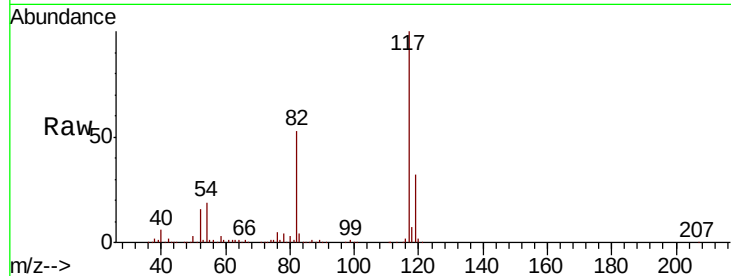




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. 0.00 min
Lab File: VN050833.D
Acq: 22 Aug 2018 20:48

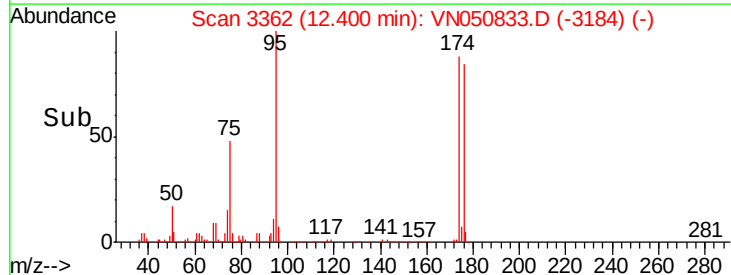
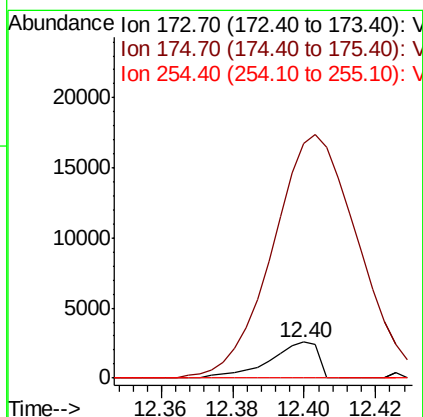
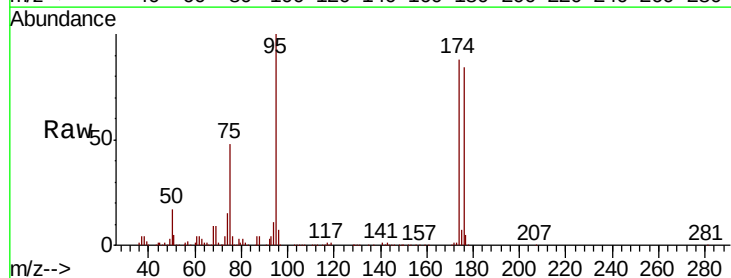
Instrument :
MSVOA_N
ClientSampled :
RN-SOIL

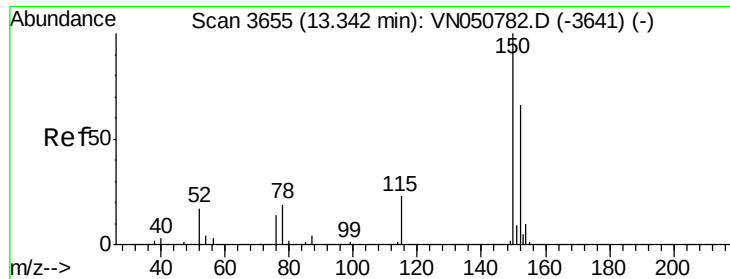
Tot Ion:117 Resp: 967543
Ion Ratio Lower Upper
117 100
82 53.4 42.6 64.0
119 31.8 25.8 38.6



#71
Bromoform
Concen: 0.38 ug/l
RT: 12.40 min Scan# 3362
Delta R.T. 0.27 min
Lab File: VN050833.D
Acq: 22 Aug 2018 20:48

Tgt Ion:173 Resp: 2436
Ion Ratio Lower Upper
173 100
175 986.8 24.4 73.4#
254 0.0 0.1 0.1#





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.35 min Scan# 3656

Delta R.T. 0.00 min

Lab File: VN050833.D

Acq: 22 Aug 2018 20:48

Instrument :

MSVOA_N

ClientSampled :

RN-SOIL

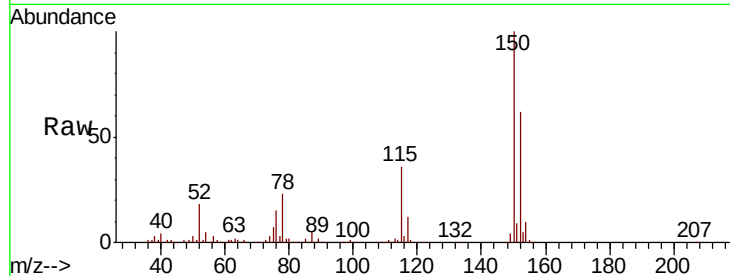
Tot Ion:152 Resp: 350327

Ion Ratio Lower Upper

152 100

115 56.8 27.8 83.4

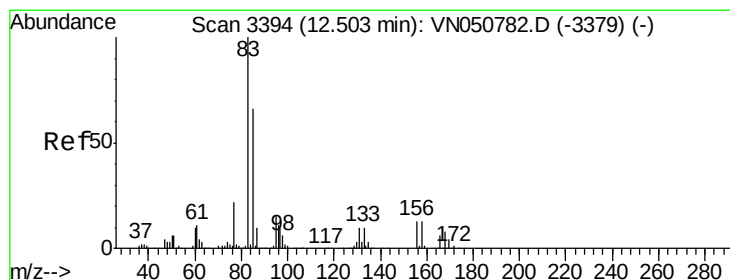
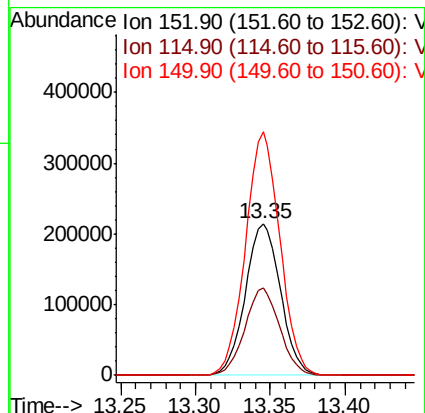
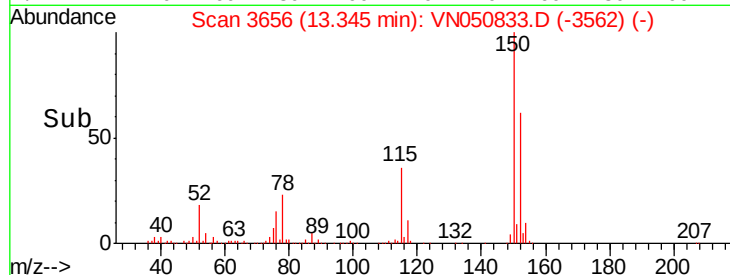
150 157.3 0.0 351.4



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.40 min Scan# 3361

Delta R.T. -0.11 min

Lab File: VN050833.D

Acq: 22 Aug 2018 20:48

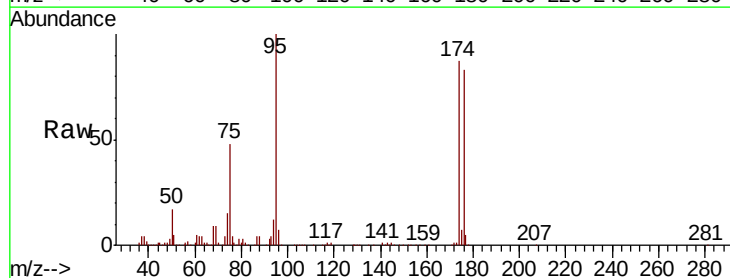
Tgt Ion: 83 Resp: 341

Ion Ratio Lower Upper

83 100

131 155.7 5.3 15.9#

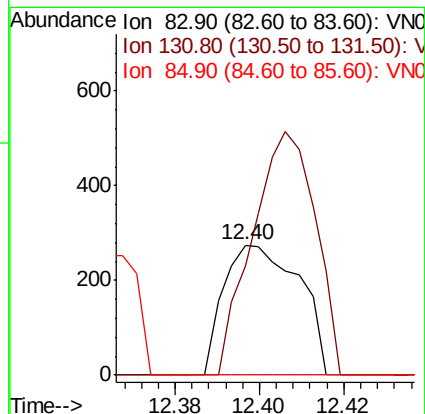
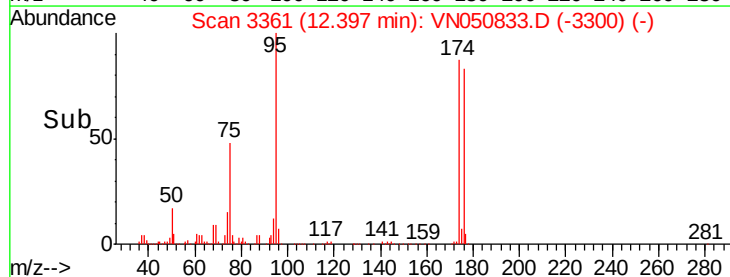
85 0.0 31.9 95.7#

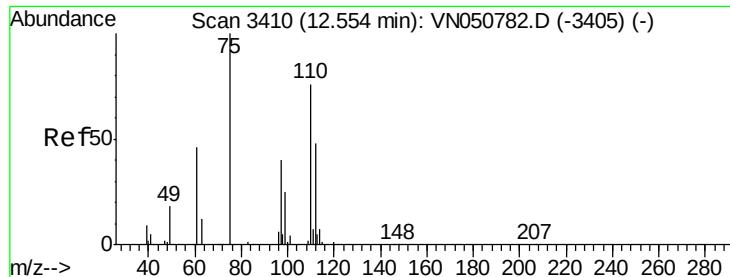


Abundance Ion 82.90 (82.60 to 83.60): V

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): V





#76

1,2,3-Trichloropropane

Concen: 33.50 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.15 min

Lab File: VN050833.D

Acq: 22 Aug 2018 20:48

Instrument :

MSVOA_N

ClientSampled :

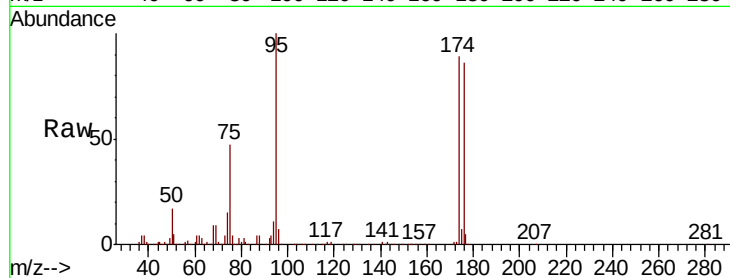
RN-SOIL

Tot Ion: 75 Resp: 205532

Ion Ratio Lower Upper

75 100

77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

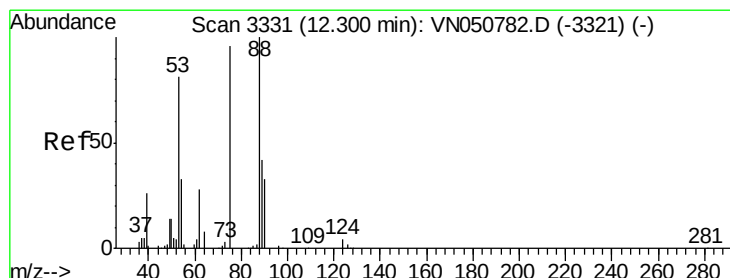
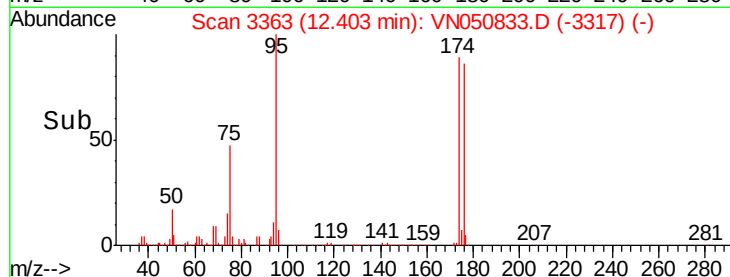
Ion 77.00 (76.70 to 77.70): VN0

12.40

100000

50000

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 113.24 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.10 min

Lab File: VN050833.D

Acq: 22 Aug 2018 20:48

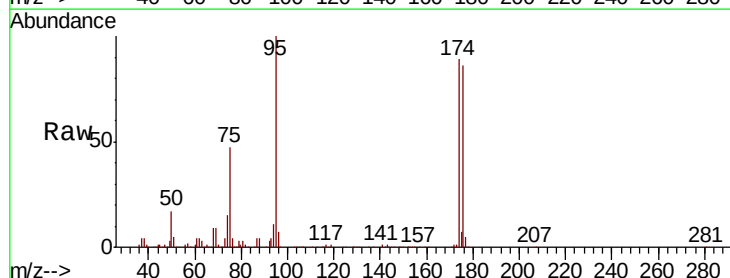
Tgt Ion: 75 Resp: 205532

Ion Ratio Lower Upper

75 100

53 0.2 68.9 103.3#

89 0.0 36.1 54.1#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0

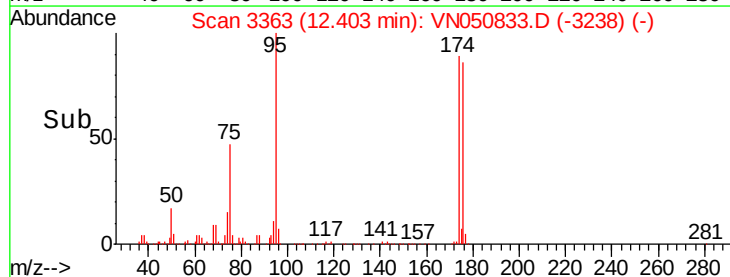
12.40

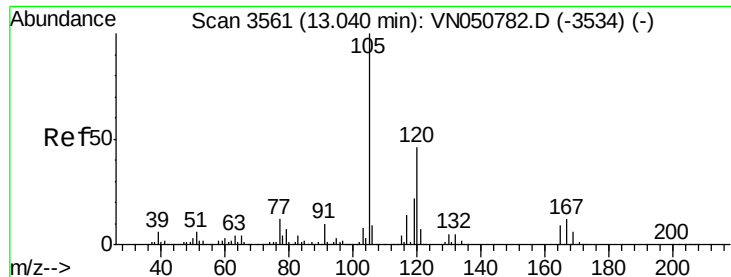
150000

100000

50000

Time-->

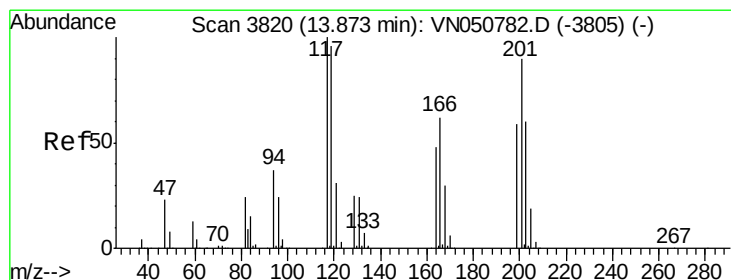
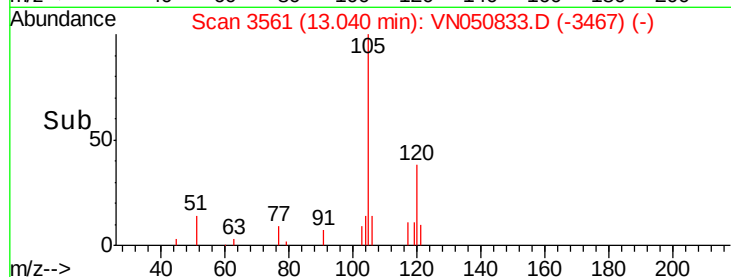
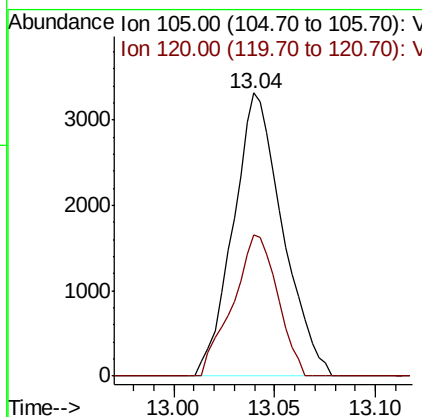
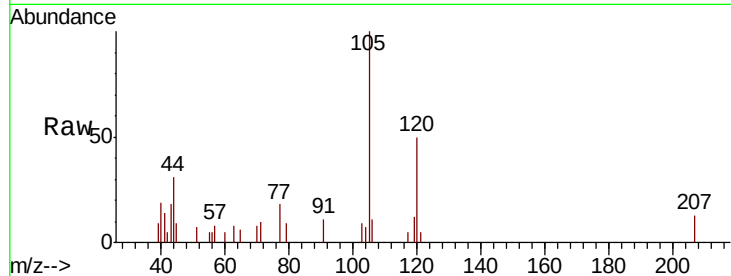




#84
 1,2,4-Trimethylbenzene
 Concen: 0.24 ug/l
 RT: 13.04 min Scan# 3561
 Delta R.T. 0.00 min
 Lab File: VN050833.D
 Acq: 22 Aug 2018 20:48

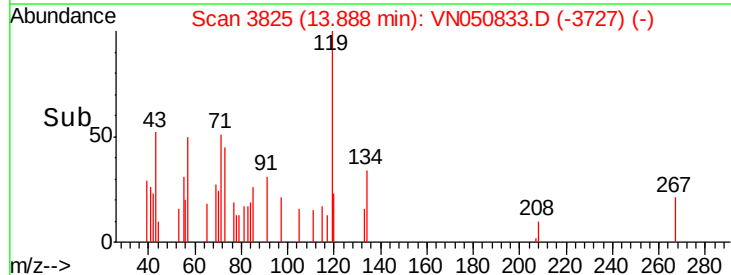
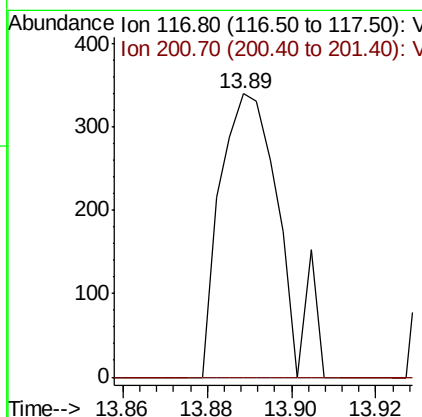
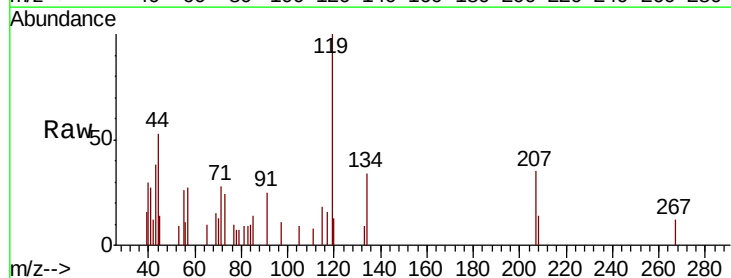
Instrument :
 MSVOA_N
 ClientSampled :
 RN-SOIL

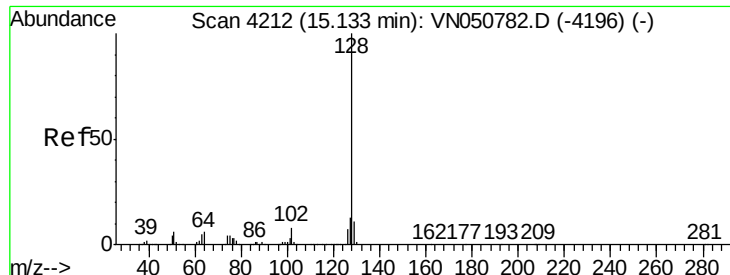
Tot Ion:105 Resp: 5687
 Ion Ratio Lower Upper
 105 100
 120 45.2 22.9 68.8



#90
 Hexachloroethane
 Concen: 0.26 ug/l
 RT: 13.89 min Scan# 3825
 Delta R.T. 0.02 min
 Lab File: VN050833.D
 Acq: 22 Aug 2018 20:48

Tgt Ion:117 Resp: 339
 Ion Ratio Lower Upper
 117 100
 201 0.0 46.0 137.8#

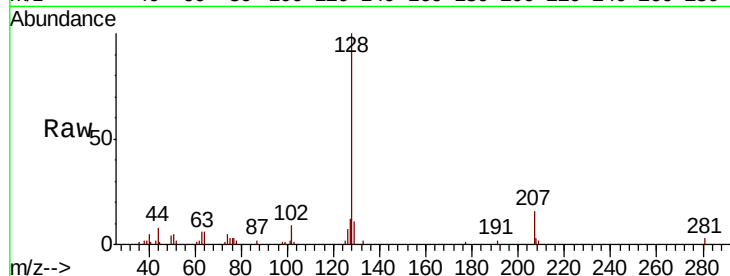




#95
Naphthalene
Concen: 7.15 ug/l
RT: 15.14 min Scan# 4213
Delta R.T. 0.00 min
Lab File: VN050833.D
Acq: 22 Aug 2018 20:48

Instrument :
MSVOA_N
ClientSampleId :
RN-SOIL

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.2	10.5	15.7
129	10.5	8.7	13.1



Abundance

Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

