

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX020519\
 Data File : VX007370.D
 Acq On : 05 Feb 2019 12:18
 Operator : JC/SP
 Sample : K1299-08
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 SPLP-LEACH-AMND-COMP-1

Quant Time: Feb 06 00:15:36 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X020119W.M
 Quant Title : SW846 8260
 QLast Update : Sat Feb 02 01:32:36 2019
 Response via : Initial Calibration

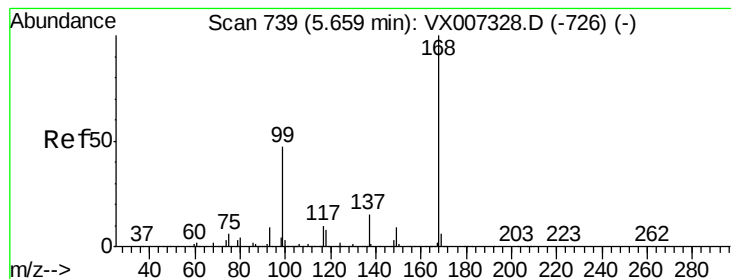
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	508639	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	790614	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	753588	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	370148	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.07	65	280577	51.97	ug/l	0.00
Spiked Amount			Recovery	=	103.94%	
35) Dibromofluoromethane	5.51	113	206355	40.11	ug/l	0.00
Spiked Amount			Recovery	=	80.22%	
50) Toluene-d8	8.71	98	955191	50.05	ug/l	0.00
Spiked Amount			Recovery	=	100.10%	
62) 4-Bromofluorobenzene	11.13	95	336114	48.23	ug/l	0.00
Spiked Amount			Recovery	=	96.46%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.20	85	351	0.233	ug/l	89
5) Bromomethane	1.64	94	1109	Below Cal	#	55
6) Chloroethane	1.73	64	870	0.239	ug/l #	43
13) Acrolein	2.28	56	218	0.416	ug/l #	14
16) Acetone	2.45	43	28322	11.452	ug/l	99
17) Carbon Disulfide	2.57	76	3643	2.396	ug/l	99
18) Methyl Acetate	2.78	43	8528	1.901	ug/l	98
20) Methylene Chloride	2.87	84	4581	0.518	ug/l #	61
25) 2-Butanone	4.70	43	7525	2.138	ug/l	95
29) Tetrahydrofuran	5.17	42	2129	0.962	ug/l #	90
36) 1,1-Dichloropropene	5.66	75	33473	4.719	ug/l #	49
38) Carbon Tetrachloride	5.67	117	45073	6.549	ug/l #	17
49) 1,4-Dioxane	7.74	88	178	8.283	ug/l #	29
51) 4-Methyl-2-Pentanone	8.65	43	2877	0.395	ug/l	94
67) Ethyl Benzene	10.25	91	5965	0.225	ug/l	96
68) m/p-Xylenes	10.36	106	2706	0.257	ug/l	97
69) o-Xylene	10.69	106	4056	0.400	ug/l	92
76) 1,2,3-Trichloropropane	11.13	75	162084	22.512	ug/l #	33
80) 1,3,5-Trimethylbenzene	11.50	105	6986	0.339	ug/l	98
81) trans-1,4-Dichloro-2-buten	11.13	75	162084	67.927	ug/l #	9
84) 1,2,4-Trimethylbenzene	11.80	105	13661	0.654	ug/l	99
90) Hexachloroethane	12.60	117	888	0.267	ug/l #	5
95) Naphthalene	13.83	128	244433	9.792	ug/l	99

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

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX020519\
Data File : VX007370.D
Acq On : 05 Feb 2019 12:18
Operator : JC/SP
Sample : K1299-08
Misc : 5.0mL/MSVOA X/WATER
ALS Vial : 7 Sample Multiplier: 1



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.01 min

Lab File: VX007370.D

Acq: 05 Feb 2019 12:18

Instrument :

MSVOA_X

ClientSampleId :

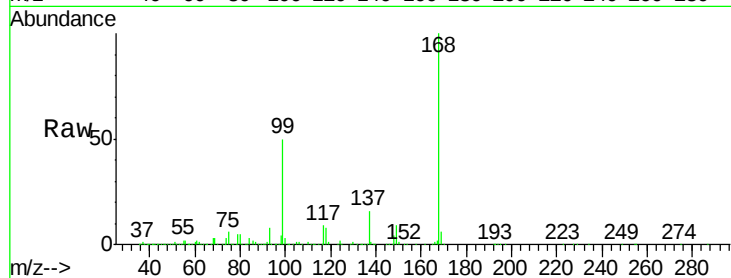
SPLP-LEACH-AMND-COMP-1

Tot Ion:168 Resp: 508639

Ion Ratio Lower Upper

168 100

99 50.1 37.9 56.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

200000

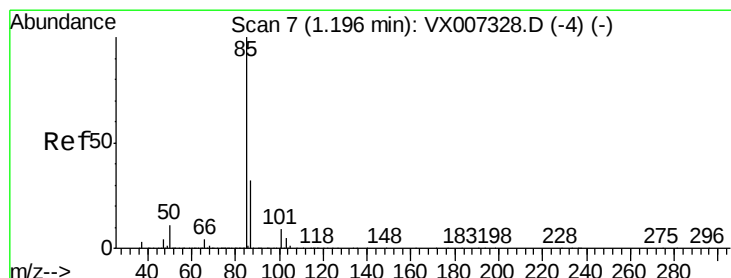
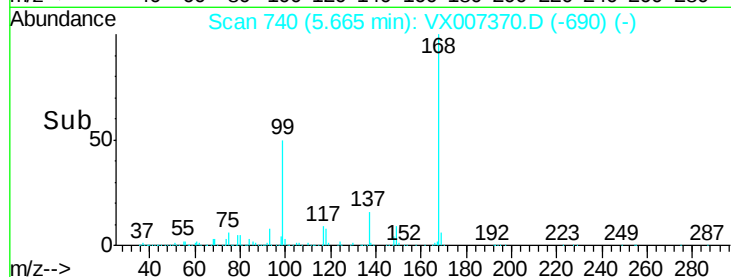
150000

100000

50000

0

Time--> 5.50 5.60 5.70 5.80



#2

Dichlorodifluoromethane

Concen: 0.233 ug/l

RT: 1.20 min Scan# 8

Delta R.T. 0.01 min

Lab File: VX007370.D

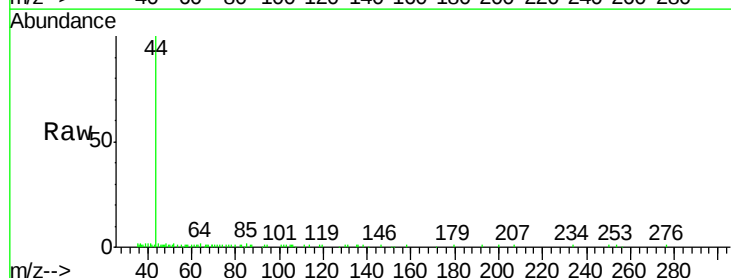
Acq: 05 Feb 2019 12:18

Tgt Ion: 85 Resp: 351

Ion Ratio Lower Upper

85 100

87 25.6 15.8 47.4



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.20

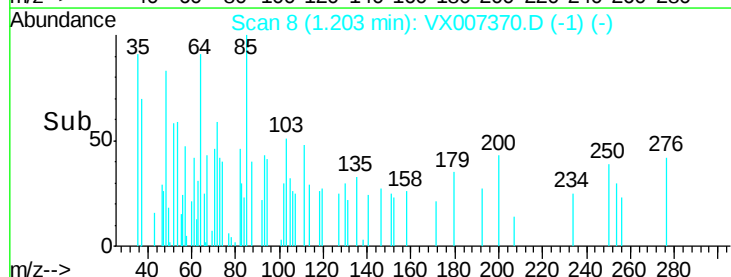
300

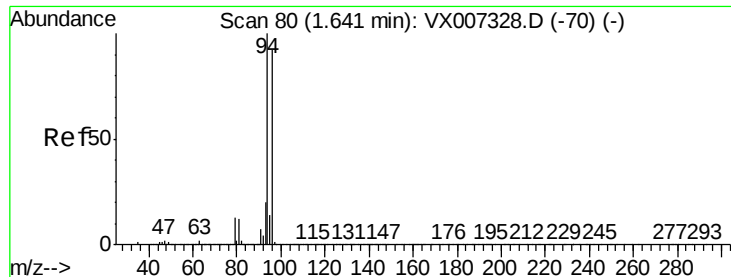
200

100

0

Time--> 1.18 1.20 1.22 1.24





#5

Bromomethane

Concen: Below Cal

RT: 1.64 min Scan# 79

Delta R.T. -0.01 min

Lab File: VX007370.D

Acq: 05 Feb 2019 12:18

Instrument :

MSVOA_X

ClientSampleId :

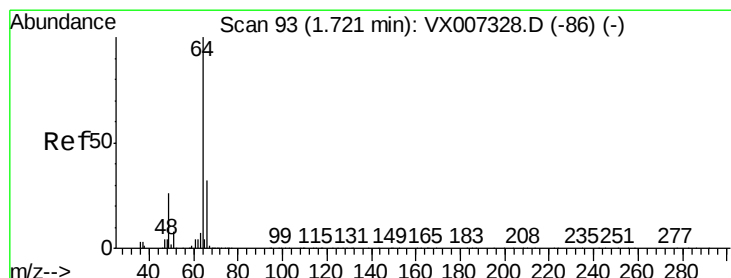
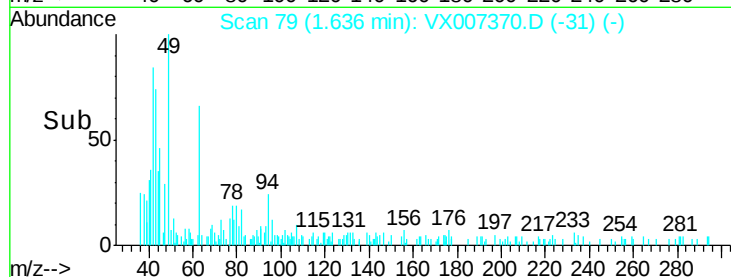
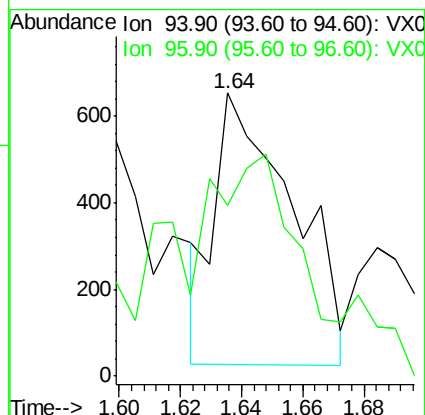
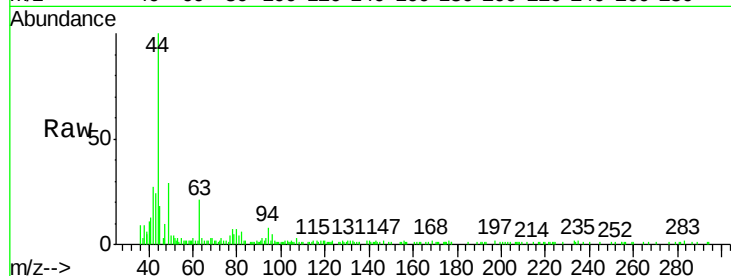
SPLP-LEACH-AMND-COMP-1

Tot Ion: 94 Resp: 1109

Ion Ratio Lower Upper

94 100

96 49.1 73.9 110.9#



#6

Chloroethane

Concen: 0.239 ug/l

RT: 1.73 min Scan# 94

Delta R.T. 0.01 min

Lab File: VX007370.D

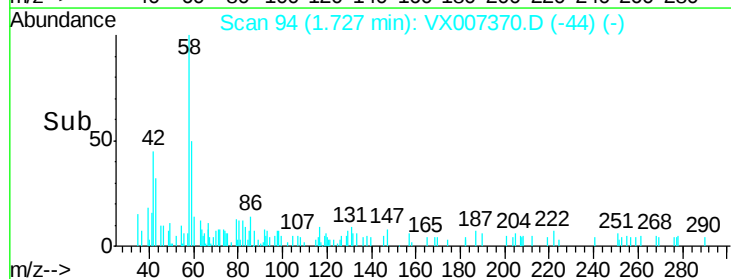
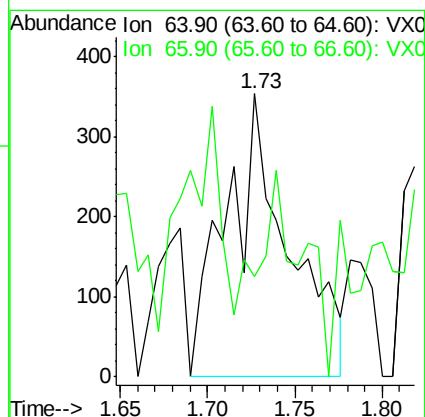
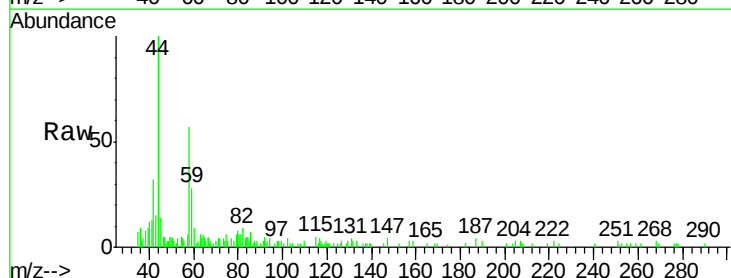
Acq: 05 Feb 2019 12:18

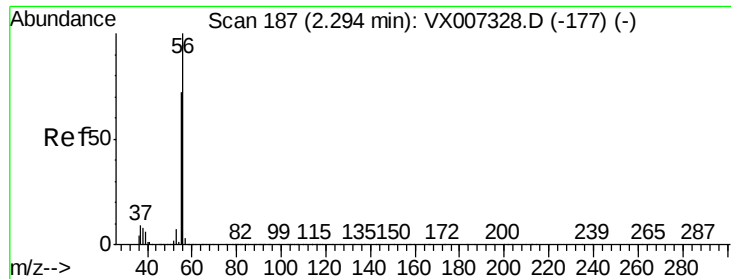
Tgt Ion: 64 Resp: 870

Ion Ratio Lower Upper

64 100

66 0.0 25.5 38.3#





#13

Acrolein

Concen: 0.416 ug/l

RT: 2.28 min Scan# 184

Delta R.T. -0.02 min

Lab File: VX007370.D

Acq: 05 Feb 2019 12:18

Instrument :

MSVOA_X

ClientSampleId :

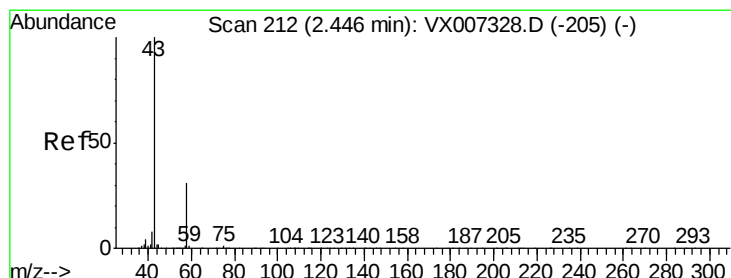
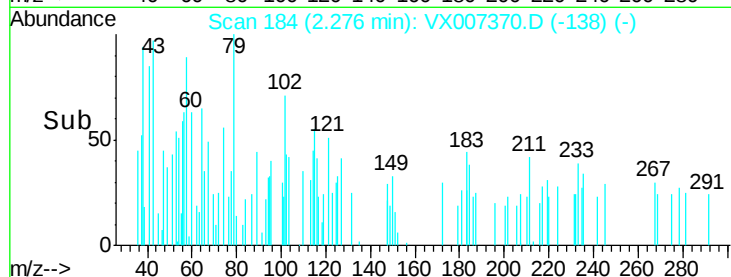
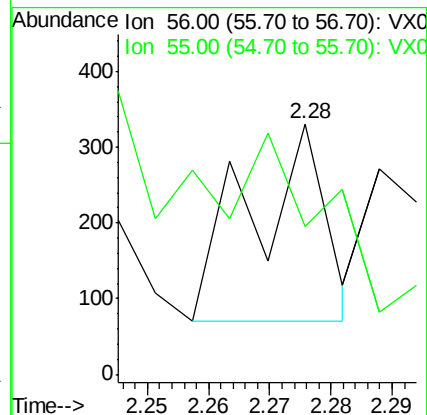
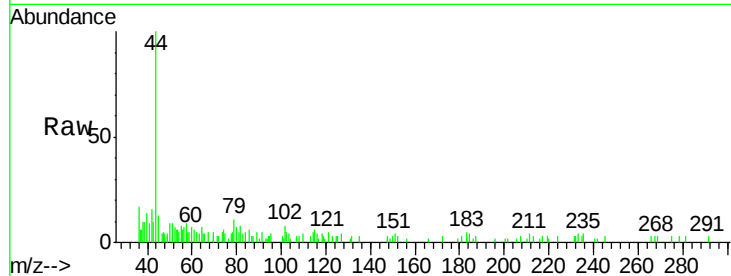
SPLP-LEACH-AMND-COMP-1

Tot Ion: 56 Resp: 218

Ion Ratio Lower Upper

56 100

55 0.0 56.9 85.3#



#16

Acetone

Concen: 11.452 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX007370.D

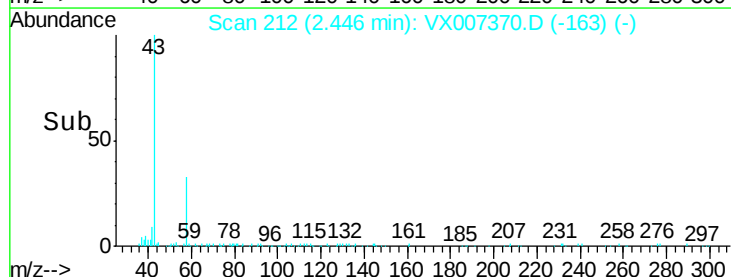
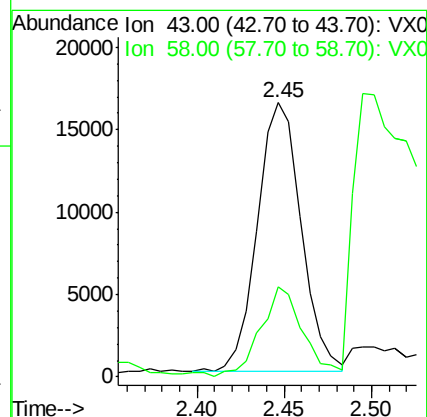
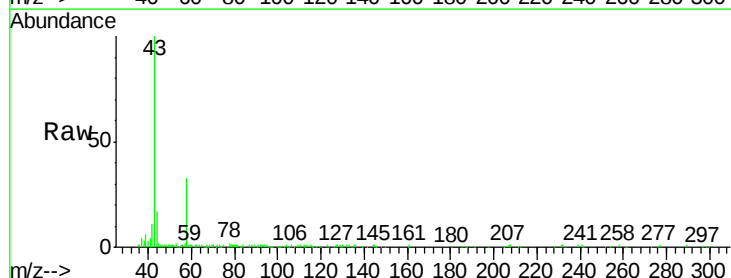
Acq: 05 Feb 2019 12:18

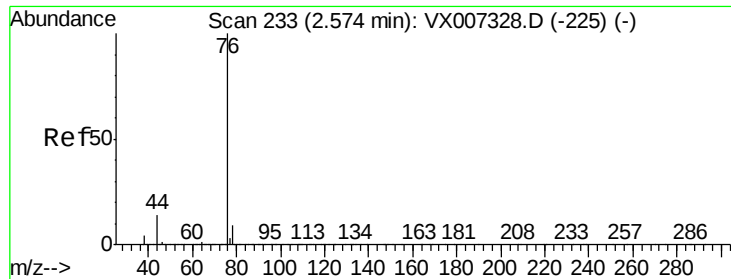
Tgt Ion: 43 Resp: 28322

Ion Ratio Lower Upper

43 100

58 31.6 24.9 37.3

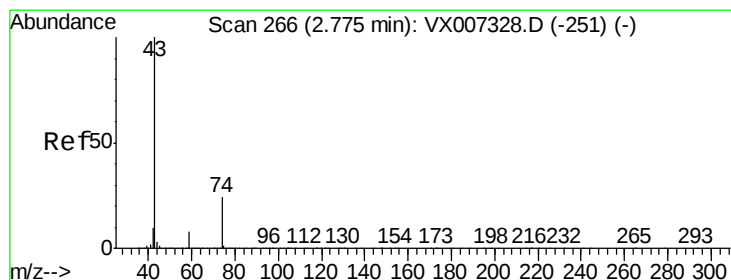
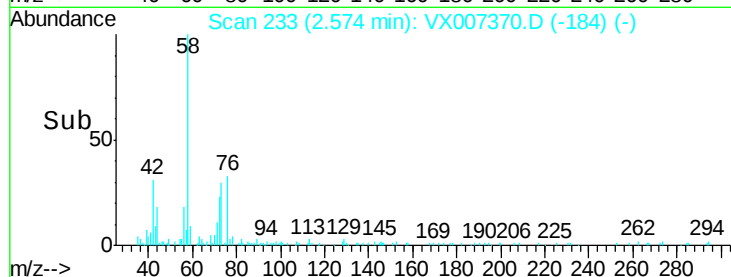
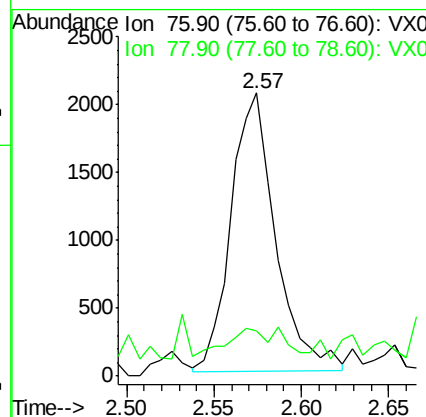
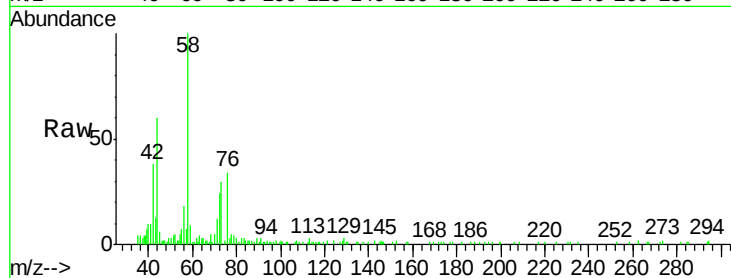




#17
Carbon Disulfide
Concen: 2.396 ug/l
RT: 2.57 min Scan# 233
Delta R.T. 0.00 min
Lab File: VX007370.D
Acq: 05 Feb 2019 12:18

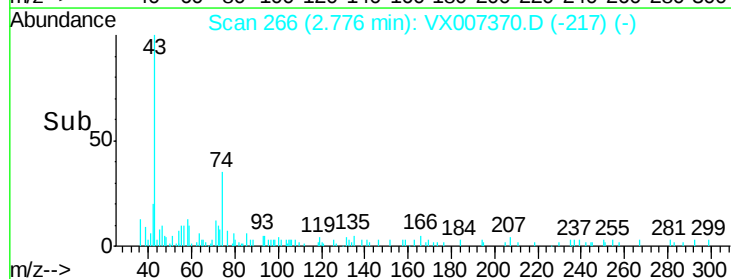
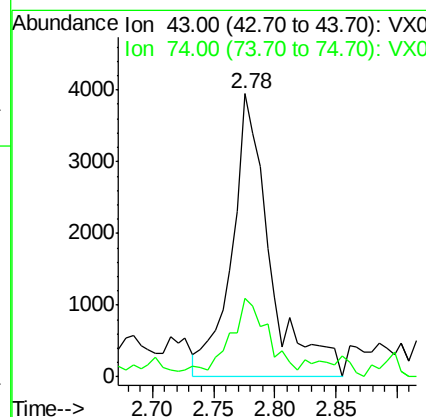
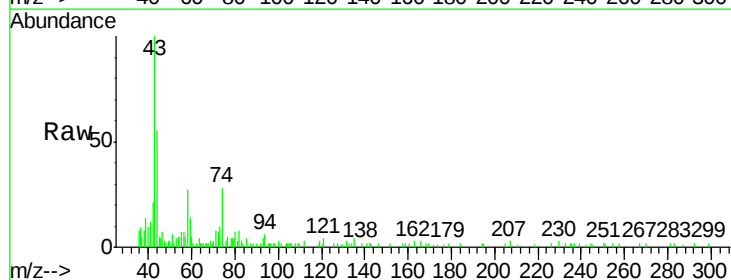
Instrument :
MSVOA_X
ClientSampleId :
SPLP-LEACH-AMND-COMP-1

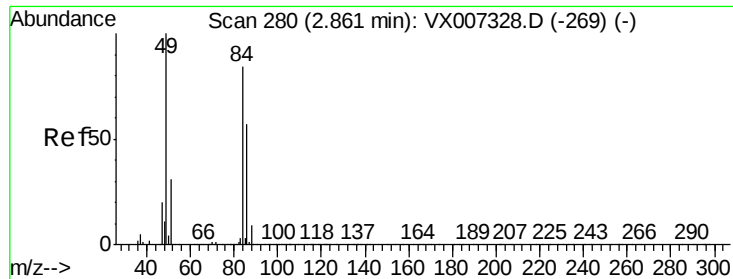
Tot Ion: 76 Resp: 3643
Ion Ratio Lower Upper
76 100
78 9.3 7.1 10.7



#18
Methyl Acetate
Concen: 1.901 ug/l
RT: 2.78 min Scan# 266
Delta R.T. 0.00 min
Lab File: VX007370.D
Acq: 05 Feb 2019 12:18

Tgt Ion: 43 Resp: 8528
Ion Ratio Lower Upper
43 100
74 23.2 19.4 29.2

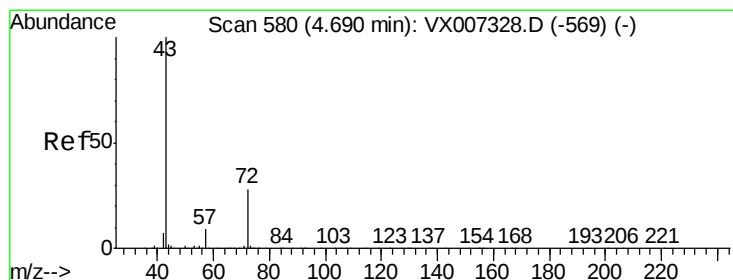
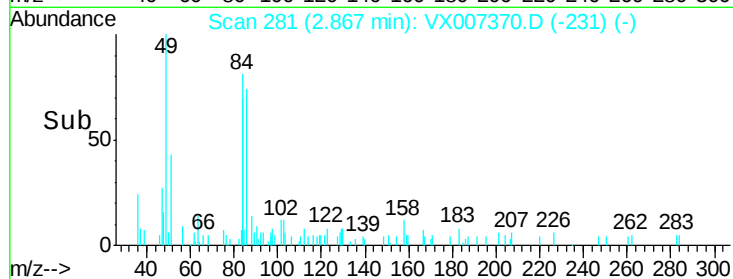
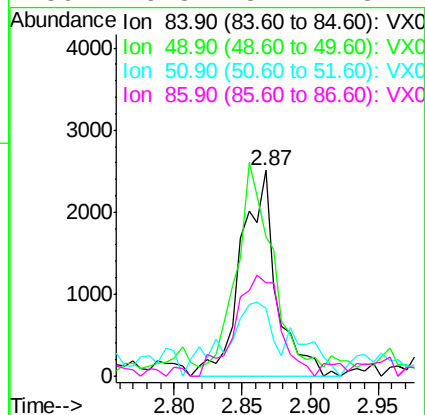
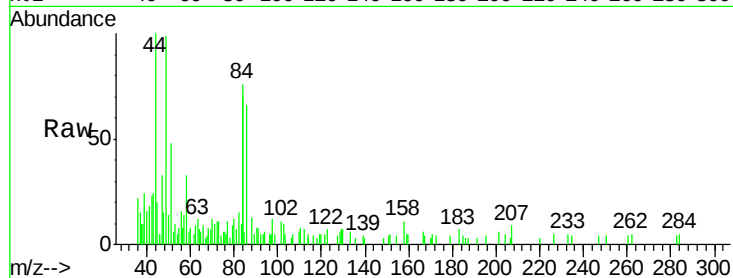




#20
Methvlene Chloride
Concen: 0.518 ug/l
RT: 2.87 min Scan# 281
Delta R.T. 0.01 min
Lab File: VX007370.D
Acq: 05 Feb 2019 12:18

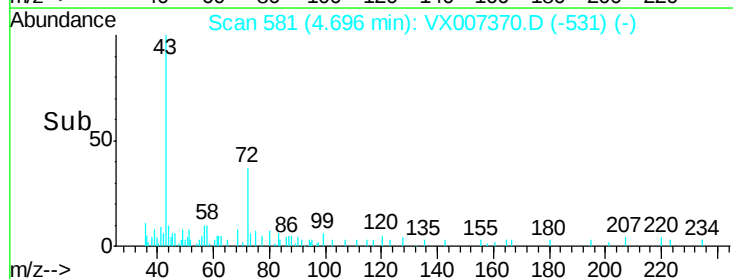
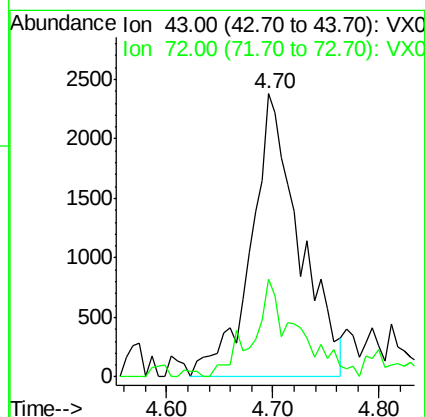
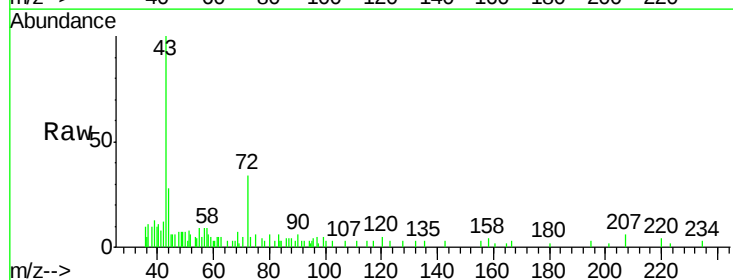
Instrument :
MSVOA_X
ClientSampleId :
SPLP-LEACH-AMND-COMP-1

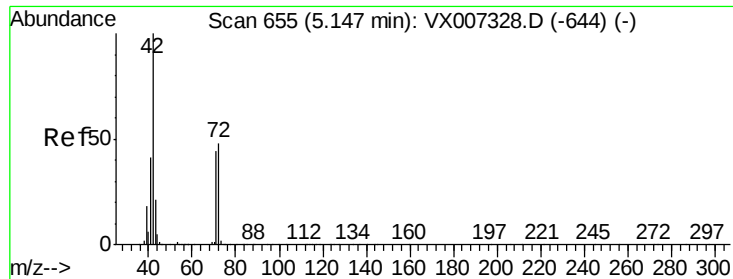
Tot Ion: 84 Resp: 4581
Ion Ratio Lower Upper
84 100
49 60.8 94.8 142.2#
51 25.4 29.8 44.8#
86 45.3 54.1 81.1#



#25
2-Butanone
Concen: 2.138 ug/l
RT: 4.70 min Scan# 581
Delta R.T. 0.01 min
Lab File: VX007370.D
Acq: 05 Feb 2019 12:18

Tgt Ion: 43 Resp: 7525
Ion Ratio Lower Upper
43 100
72 30.5 22.2 33.2

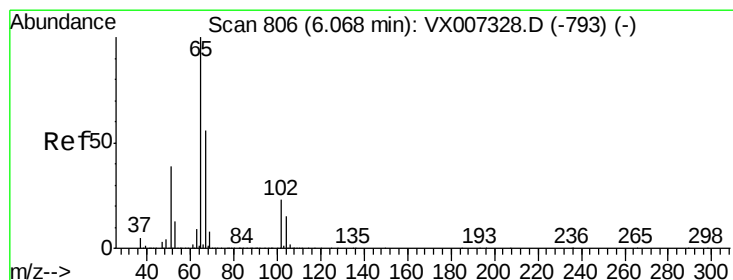
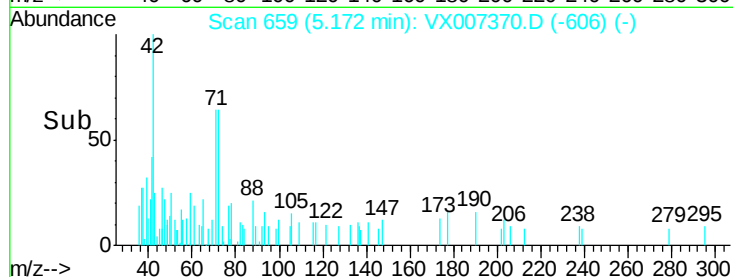
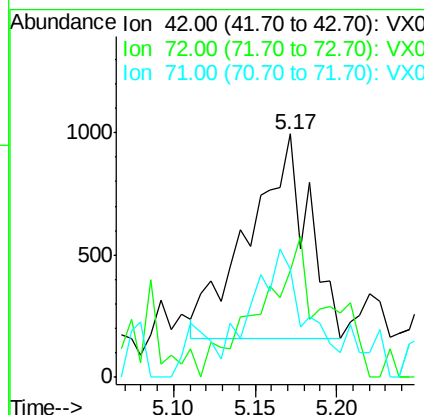
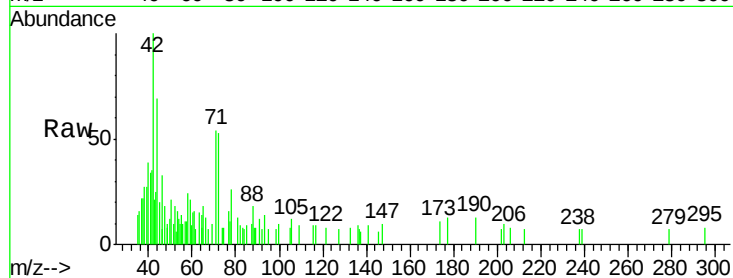




#29
Tetrahydrofuran
Concen: 0.962 ug/l
RT: 5.17 min Scan# 659
Delta R.T. 0.02 min
Lab File: VX007370.D
Acq: 05 Feb 2019 12:18

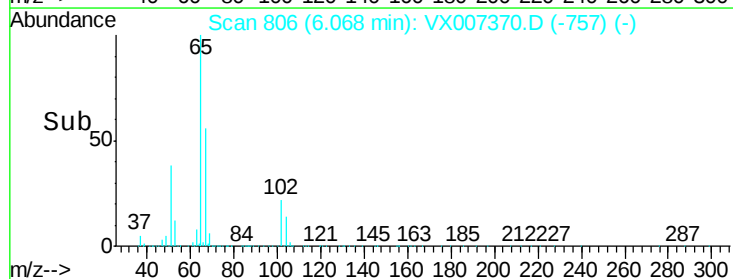
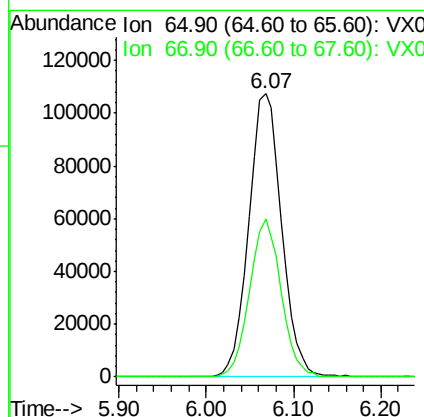
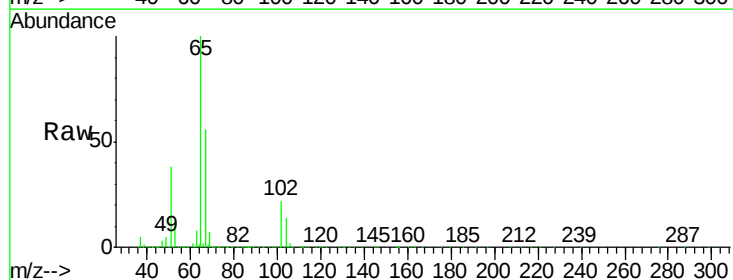
Instrument :
MSVOA_X
ClientSampleId :
SPLP-LEACH-AMND-COMP-1

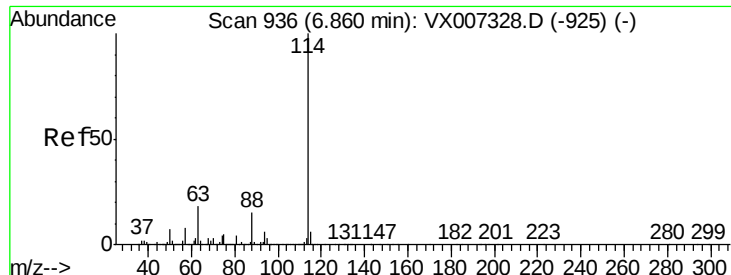
Tot Ion: 42 Resp: 2129
Ion Ratio Lower Upper
42 100
72 58.0 37.6 56.4#
71 41.9 34.6 51.8



#33
1,2-Dichloroethane-d4
Concen: 51.970 ug/l
RT: 6.07 min Scan# 806
Delta R.T. 0.00 min
Lab File: VX007370.D
Acq: 05 Feb 2019 12:18

Tgt Ion: 65 Resp: 280577
Ion Ratio Lower Upper
65 100
67 53.8 0.0 108.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. 0.00 min

Lab File: VX007370.D

Acq: 05 Feb 2019 12:18

Instrument :

MSVOA_X

ClientSampleId :

SPLP-LEACH-AMND-COMP-1

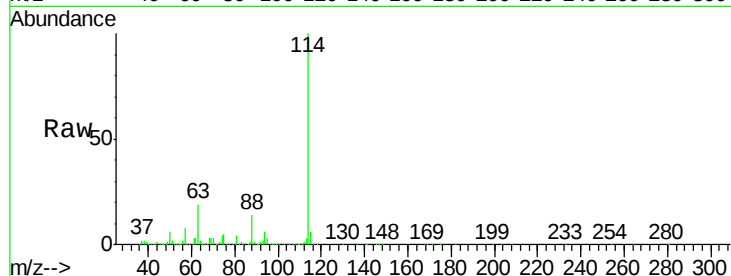
Tot Ion:114 Resp: 790614

Ion Ratio Lower Upper

114 100

63 18.8 0.0 35.6

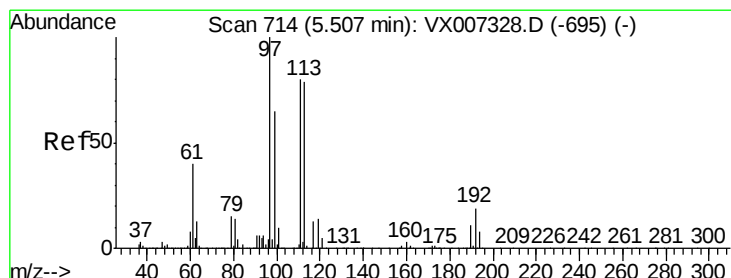
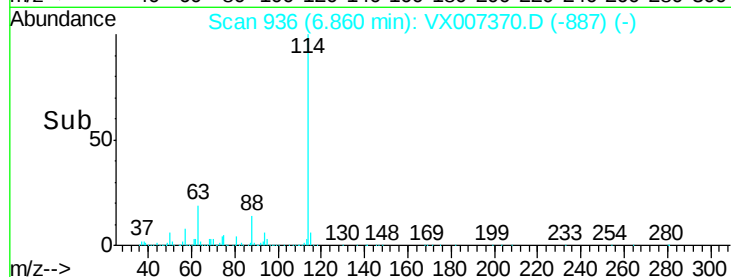
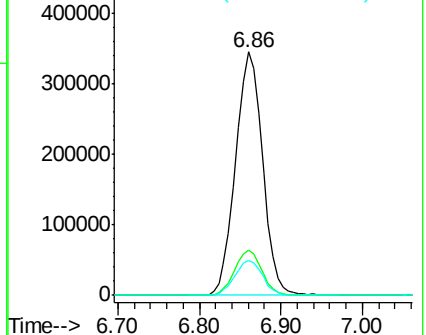
88 14.2 0.0 29.6



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0



#35

Dibromofluoromethane

Concen: 40.114 ug/l

RT: 5.51 min Scan# 714

Delta R.T. 0.00 min

Lab File: VX007370.D

Acq: 05 Feb 2019 12:18

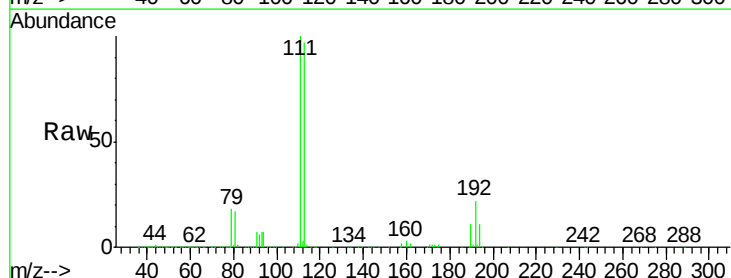
Tgt Ion:113 Resp: 206355

Ion Ratio Lower Upper

113 100

111 101.8 81.8 122.8

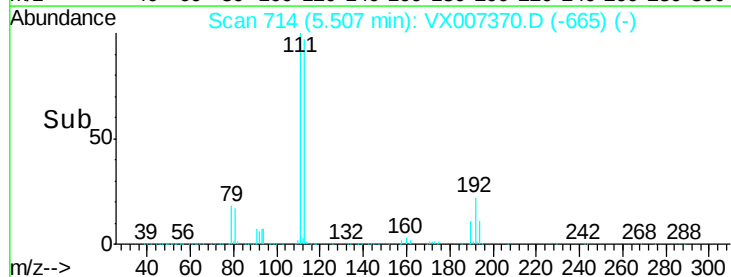
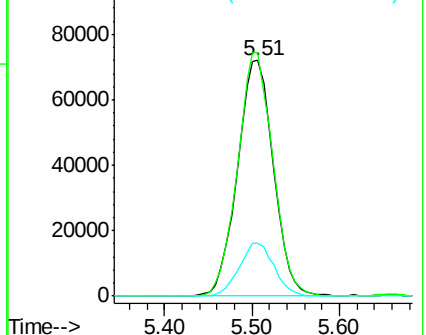
192 22.2 18.5 27.7

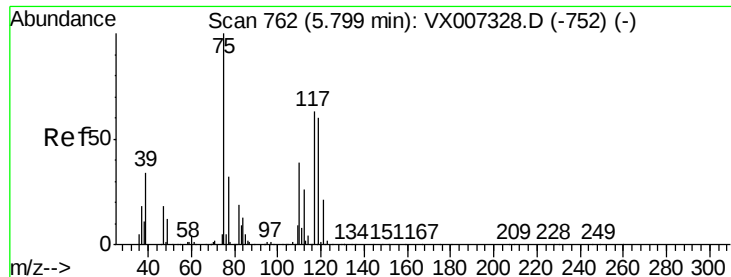


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.719 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX007370.D

Acq: 05 Feb 2019 12:18

Instrument :

MSVOA_X

ClientSampleId :

SPLP-LEACH-AMND-COMP-1

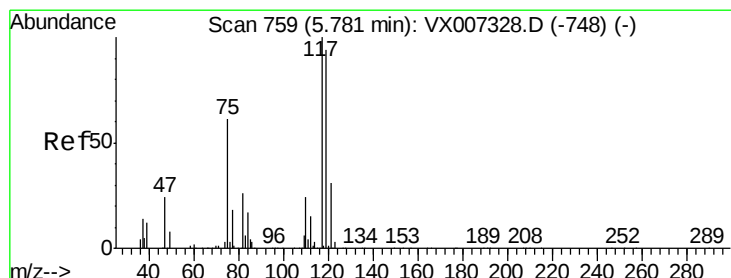
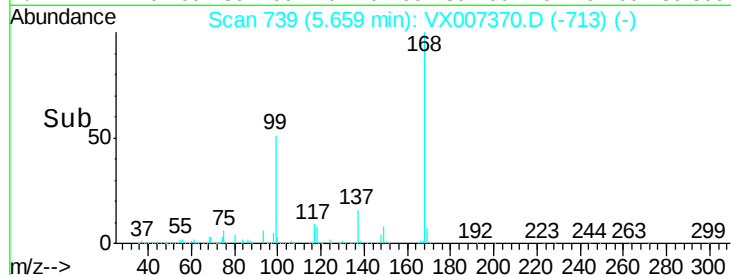
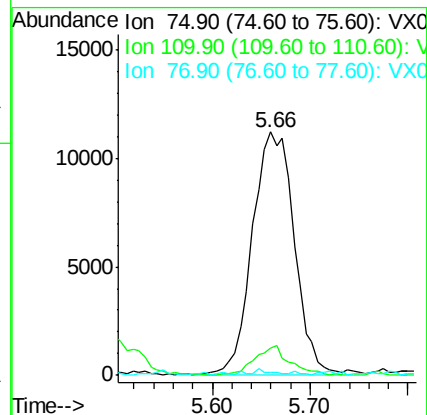
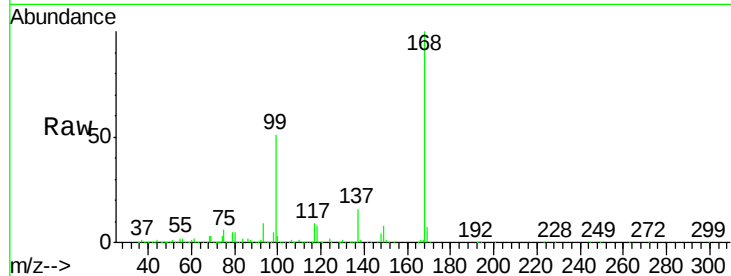
Tot Ion: 75 Resp: 33473

Ion Ratio Lower Upper

75 100

110 10.3 20.0 59.9#

77 1.3 24.7 37.1#



#38

Carbon Tetrachloride

Concen: 6.549 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX007370.D

Acq: 05 Feb 2019 12:18

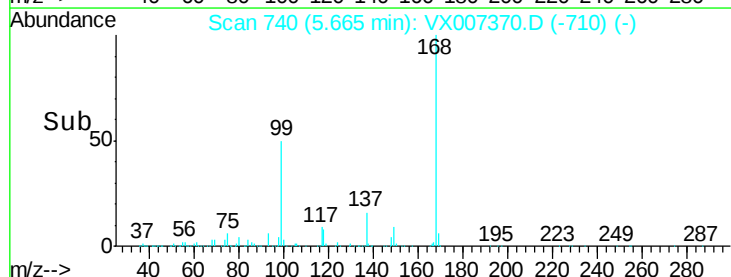
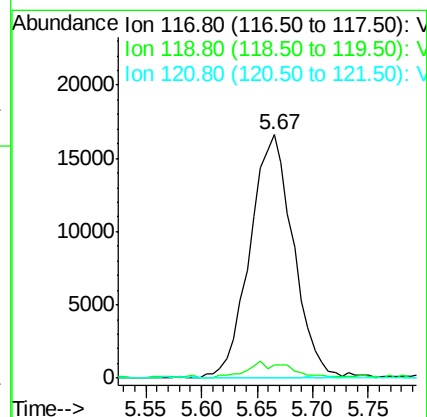
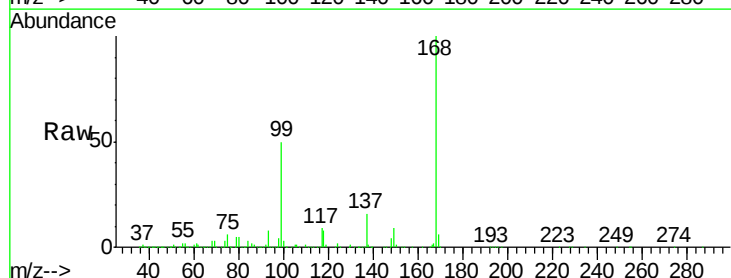
Tgt Ion:117 Resp: 45073

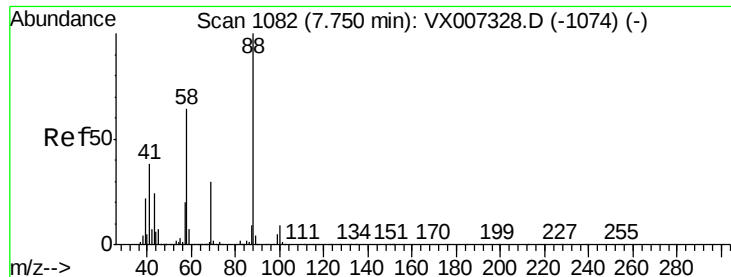
Ion Ratio Lower Upper

117 100

119 5.1 75.3 112.9#

121 0.0 25.0 37.4#





#49

1,4-Dioxane

Concen: 8.283 ug/l

RT: 7.74 min Scan# 1080

Delta R.T. -0.01 min

Lab File: VX007370.D

Acq: 05 Feb 2019 12:18

Instrument :

MSVOA_X

ClientSampleId :

SPLP-LEACH-AMND-COMP-1

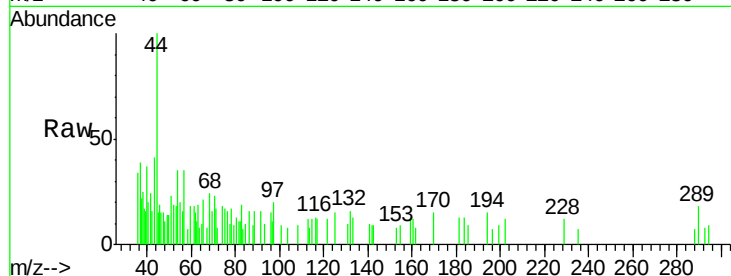
Tot Ion: 88 Resp: 178

Ion Ratio Lower Upper

88 100

43 128.7 24.2 36.4#

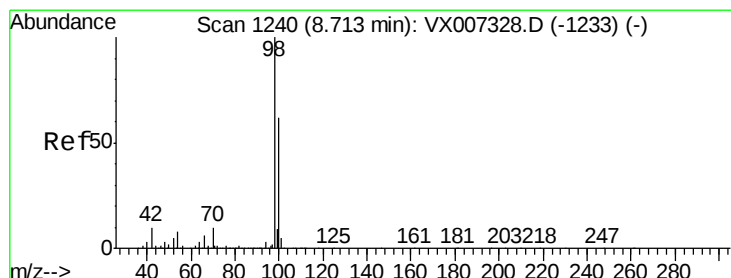
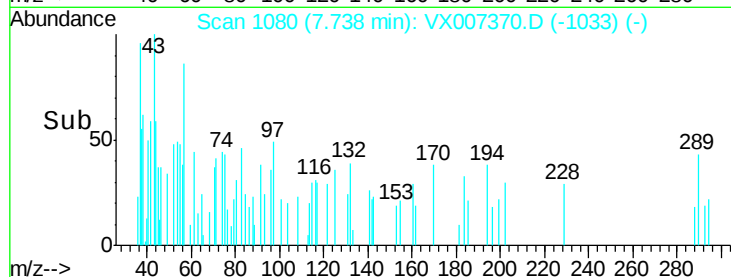
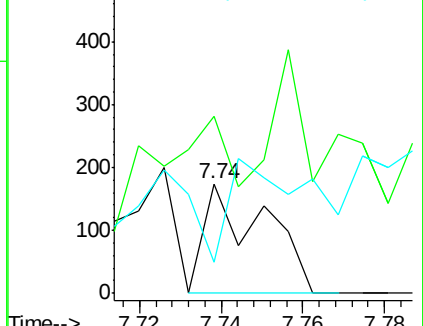
58 83.1 53.0 79.4#



Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#50

Toluene-d8

Concen: 50.047 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX007370.D

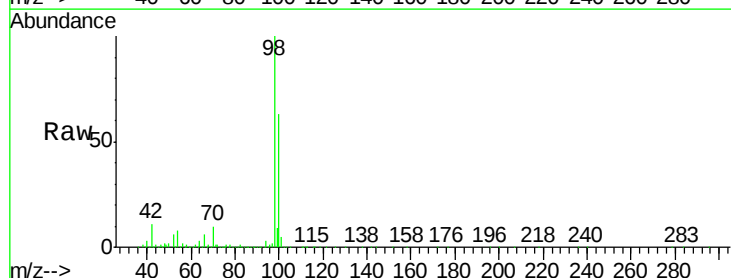
Acq: 05 Feb 2019 12:18

Tgt Ion: 98 Resp: 955191

Ion Ratio Lower Upper

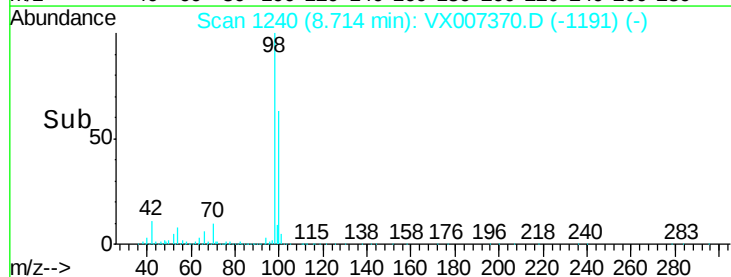
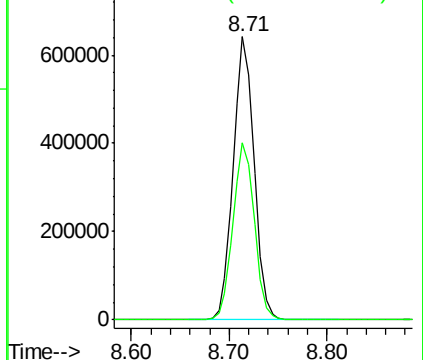
98 100

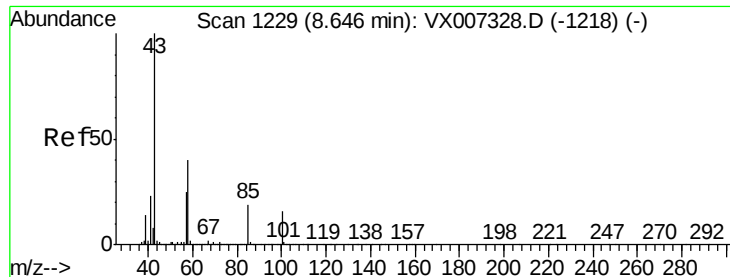
100 63.8 51.6 77.4



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0





#51

4-Methyl-2-Pentanone

Concen: 0.395 ug/l

RT: 8.65 min Scan# 1230

Delta R.T. 0.01 min

Lab File: VX007370.D

Acq: 05 Feb 2019 12:18

Instrument :

MSVOA_X

ClientSampleId :

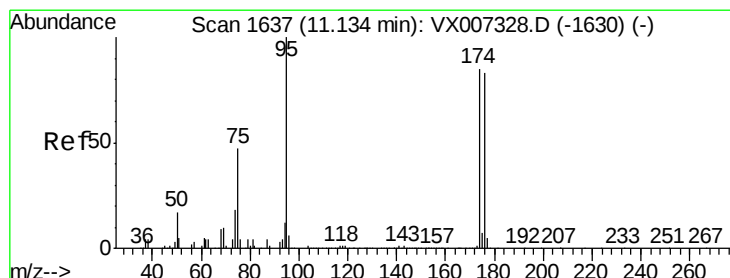
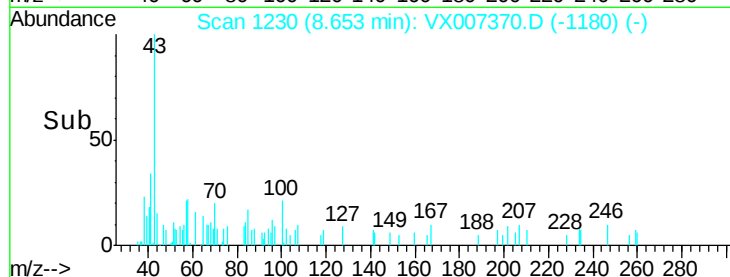
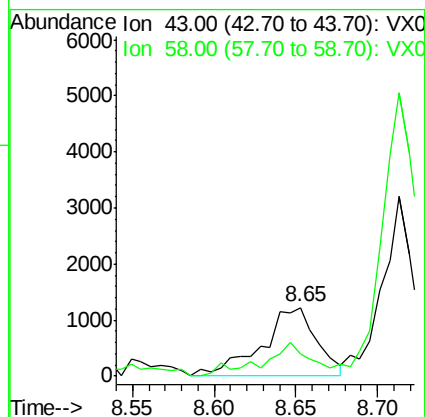
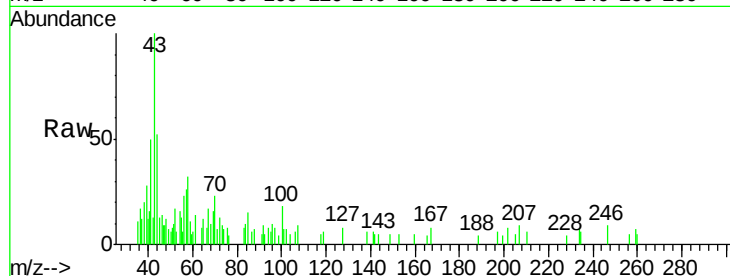
SPLP-LEACH-AMND-COMP-1

Tot Ion: 43 Resp: 2877

Ion Ratio Lower Upper

43 100

58 42.6 31.2 46.8



#62

4-Bromofluorobenzene

Concen: 48.235 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX007370.D

Acq: 05 Feb 2019 12:18

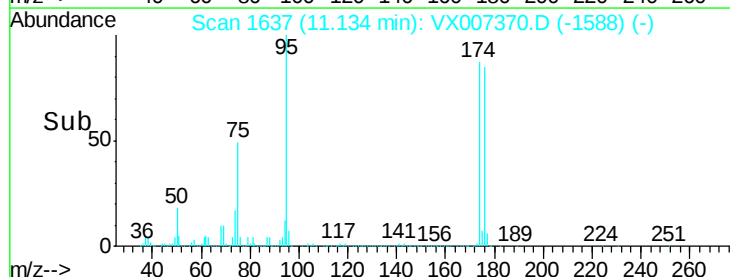
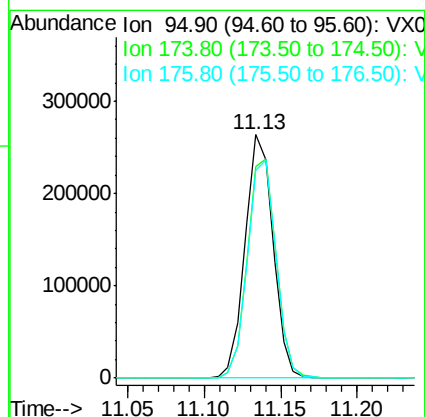
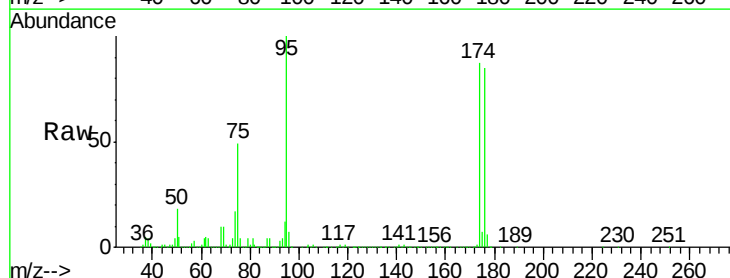
Tgt Ion: 95 Resp: 336114

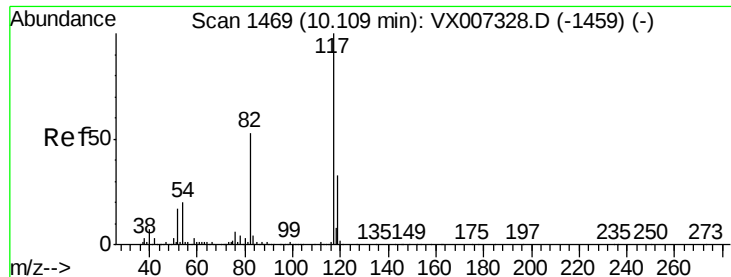
Ion Ratio Lower Upper

95 100

174 92.7 0.0 189.2

176 90.9 0.0 186.2

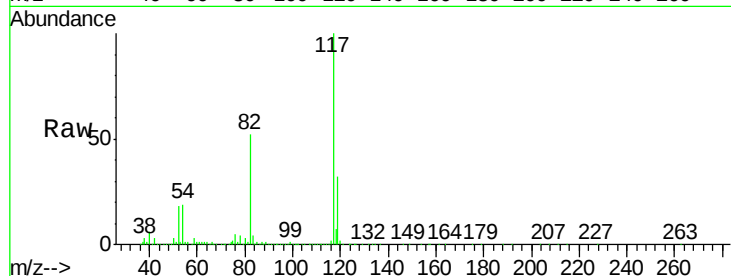




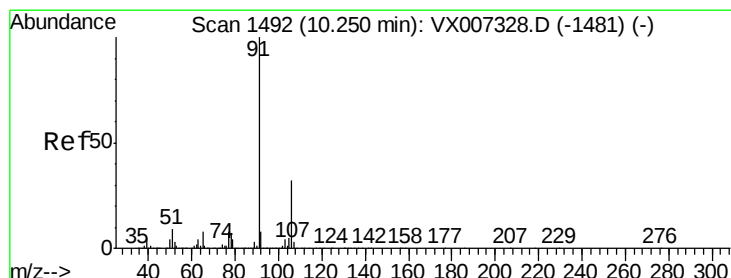
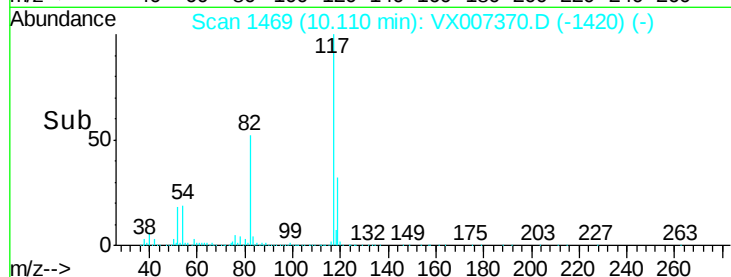
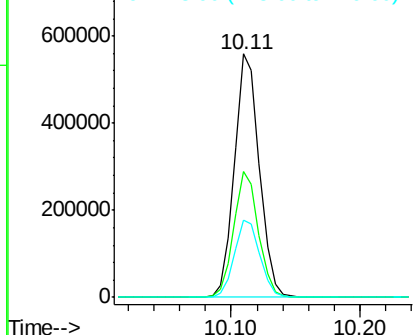
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VX007370.D
Acq: 05 Feb 2019 12:18

Instrument :
MSVOA_X
ClientSampleId :
SPLP-LEACH-AMND-COMP-1

Tot Ion:117 Resp: 753588
Ion Ratio Lower Upper
117 100
82 51.8 42.1 63.1
119 31.9 26.5 39.7

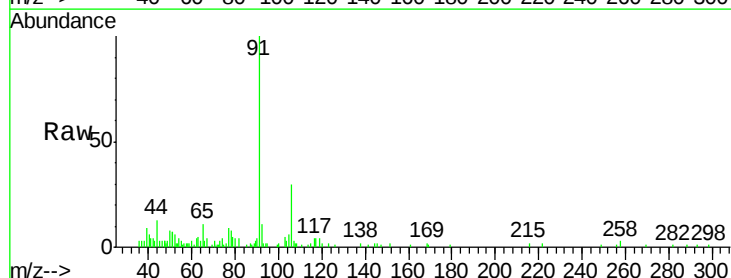


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

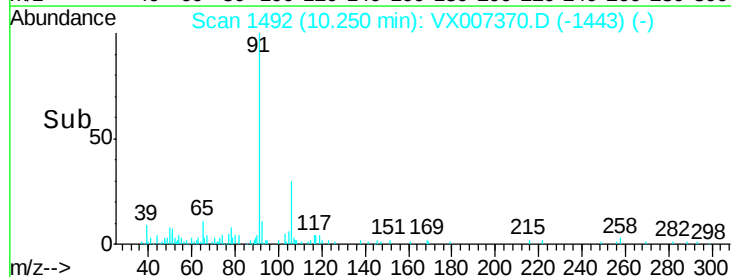
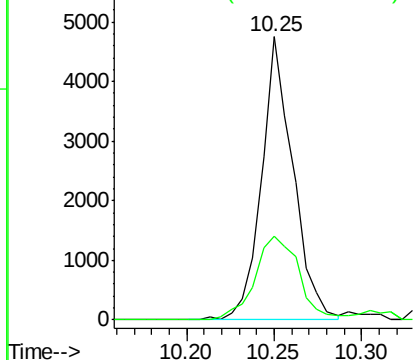


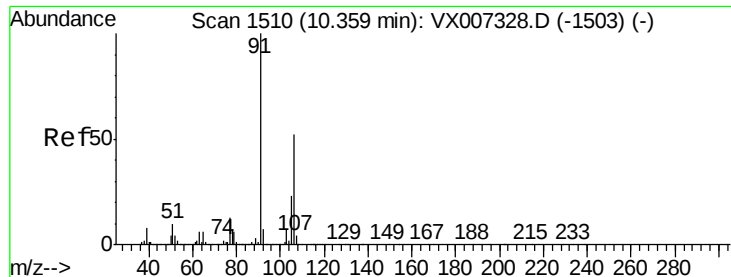
#67
Ethyl Benzene
Concen: 0.225 ug/l
RT: 10.25 min Scan# 1492
Delta R.T. 0.00 min
Lab File: VX007370.D
Acq: 05 Feb 2019 12:18

Tgt Ion: 91 Resp: 5965
Ion Ratio Lower Upper
91 100
106 29.5 25.4 38.0



Abundance Ion 91.00 (90.70 to 91.70): VX0
Ion 106.00 (105.70 to 106.70): V





#68

m/p-Xylenes

Concen: 0.257 ug/l

RT: 10.36 min Scan# 1510

Delta R.T. 0.00 min

Lab File: VX007370.D

Acq: 05 Feb 2019 12:18

Instrument :

MSVOA_X

ClientSampleId :

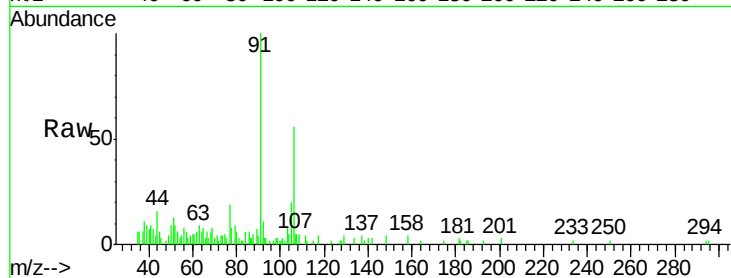
SPLP-LEACH-AMND-COMP-1

Tot Ion:106 Resp: 2706

Ion Ratio Lower Upper

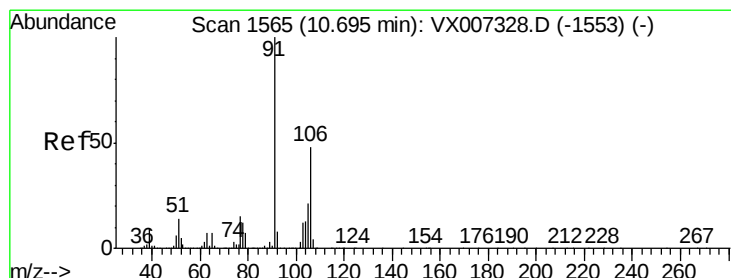
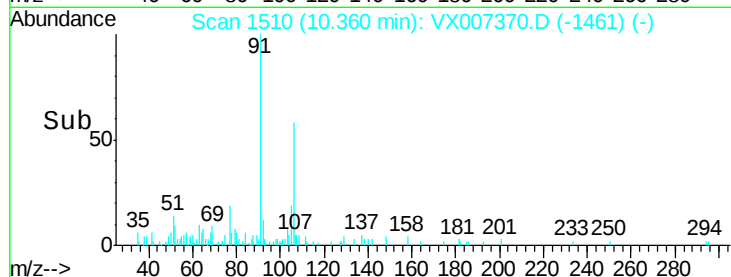
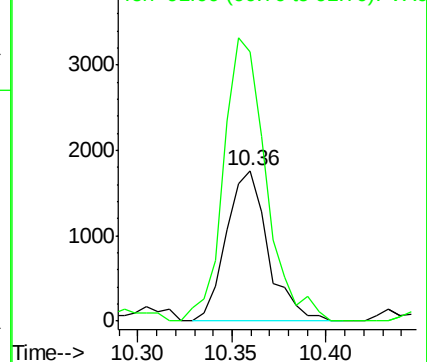
106 100

91 191.6 156.6 234.8



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VX0



#69

o-Xylene

Concen: 0.400 ug/l

RT: 10.69 min Scan# 1565

Delta R.T. 0.00 min

Lab File: VX007370.D

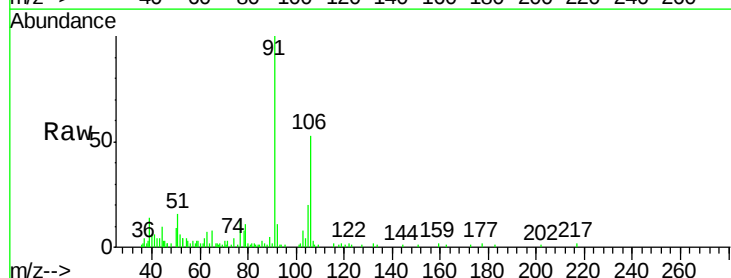
Acq: 05 Feb 2019 12:18

Tgt Ion:106 Resp: 4056

Ion Ratio Lower Upper

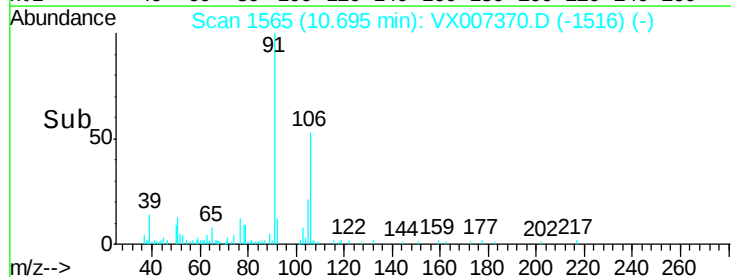
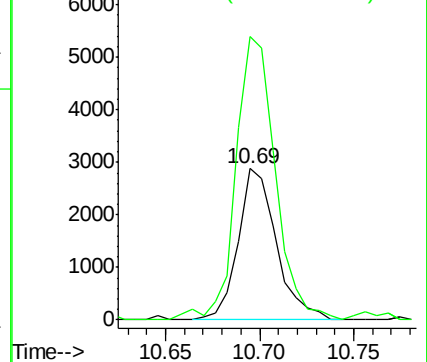
106 100

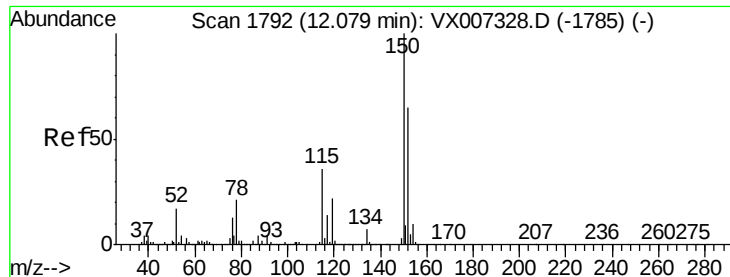
91 193.1 102.9 308.7



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VX0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. 0.00 min

Lab File: VX007370.D

Acq: 05 Feb 2019 12:18

Instrument :

MSVOA_X

ClientSampleId :

SPLP-LEACH-AMND-COMP-1

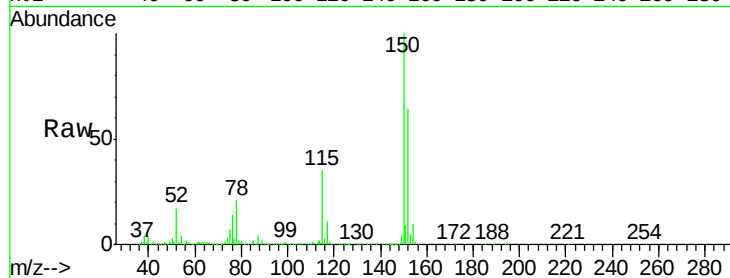
Tot Ion:152 Resp: 370148

Ion Ratio Lower Upper

152 100

115 54.3 38.0 114.0

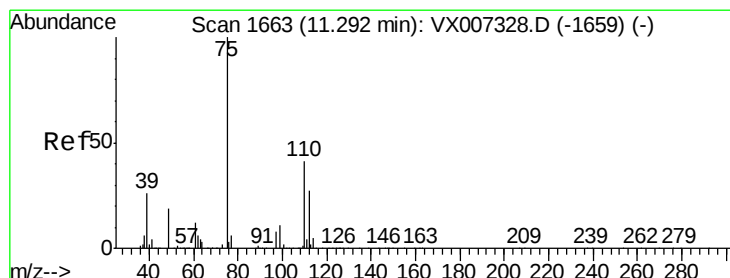
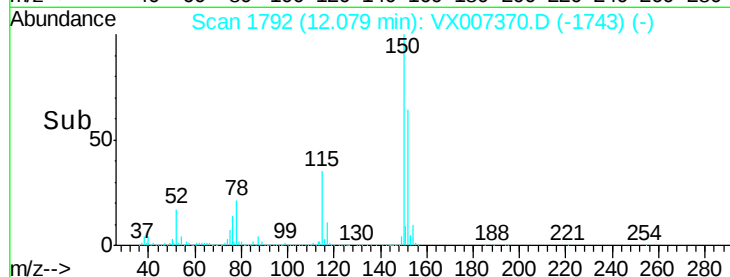
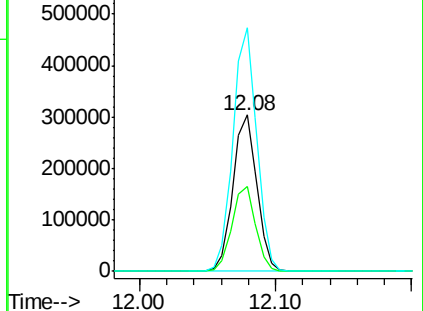
150 155.7 0.0 346.4



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 22.512 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX007370.D

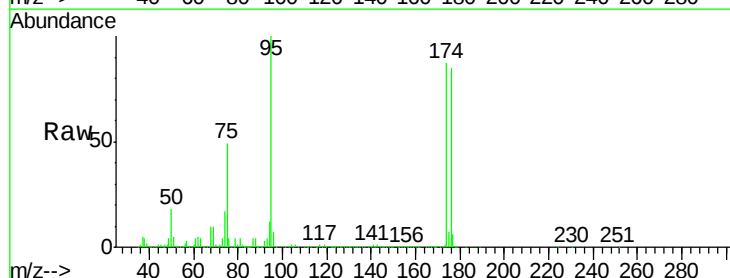
Acq: 05 Feb 2019 12:18

Tgt Ion: 75 Resp: 162084

Ion Ratio Lower Upper

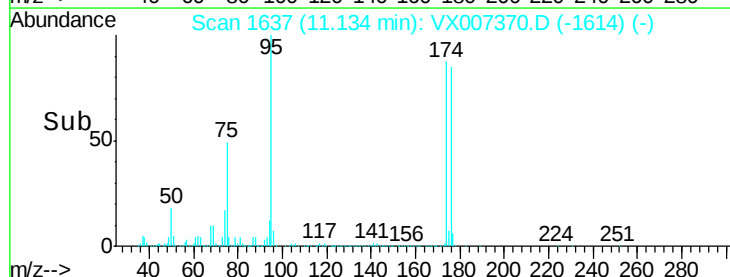
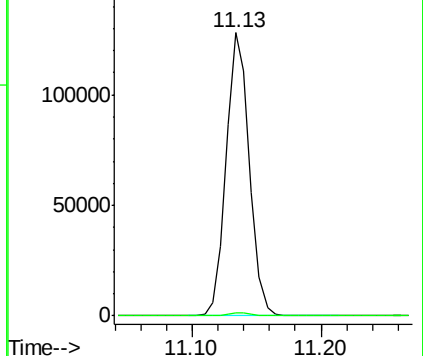
75 100

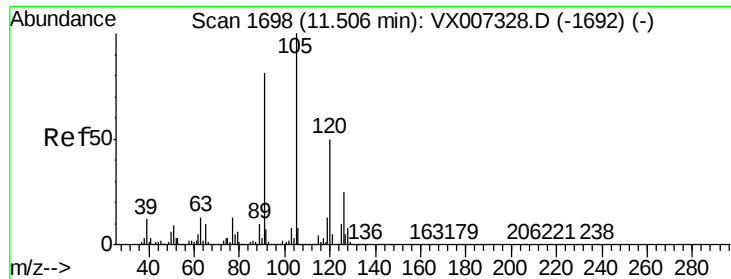
77 1.5 23.0 69.0#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#80

1,3,5-Trimethylbenzene

Concen: 0.339 ug/l

RT: 11.50 min Scan# 1697

Delta R.T. -0.01 min

Lab File: VX007370.D

Acq: 05 Feb 2019 12:18

Instrument :

MSVOA_X

ClientSampleId :

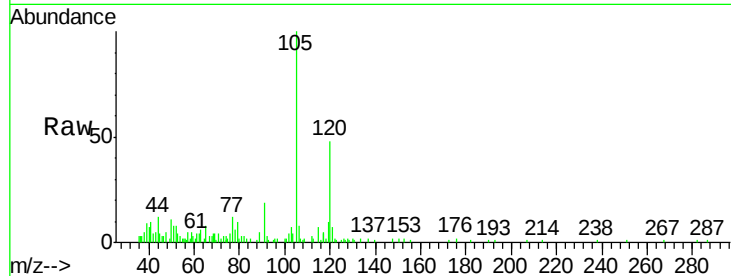
SPLP-LEACH-AMND-COMP-1

Tot Ion:105 Resp: 6986

Ion Ratio Lower Upper

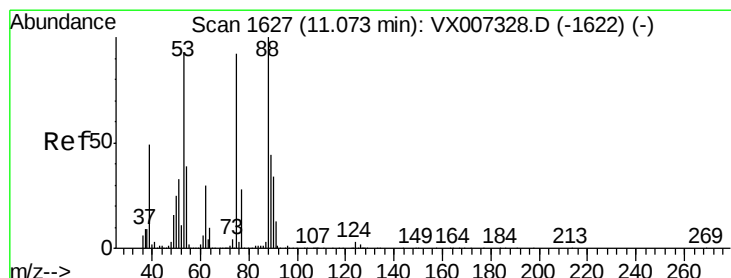
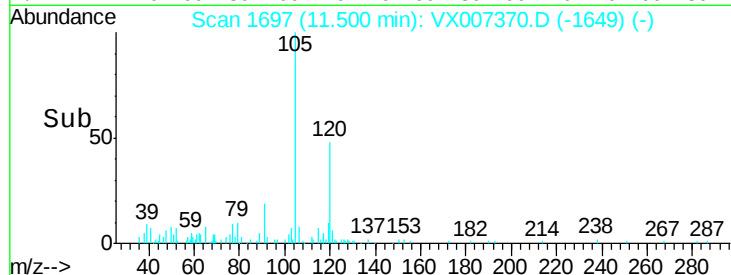
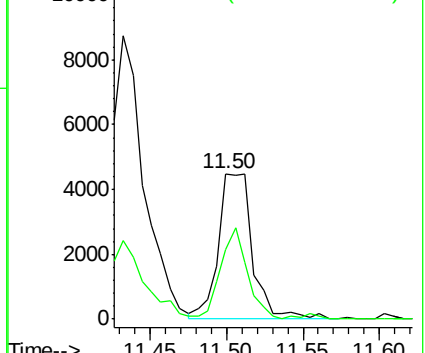
105 100

120 48.9 25.3 75.8



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: 67.927 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX007370.D

Acq: 05 Feb 2019 12:18

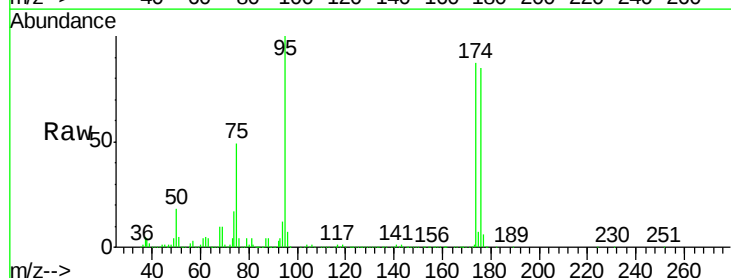
Tgt Ion: 75 Resp: 162084

Ion Ratio Lower Upper

75 100

53 0.1 81.0 121.6#

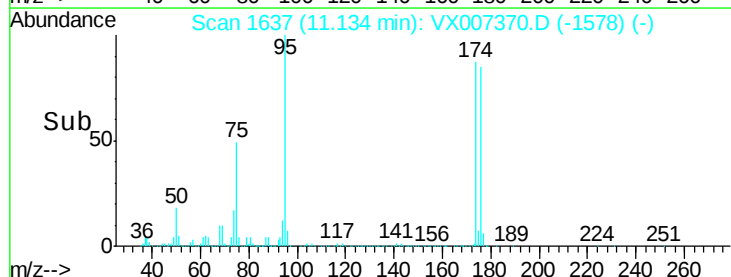
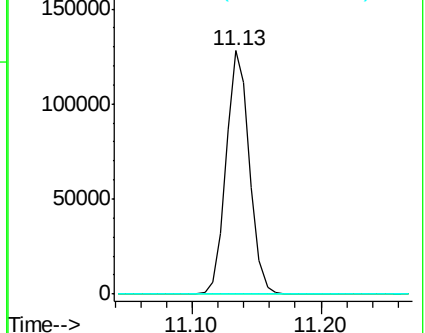
89 0.2 41.4 62.0#

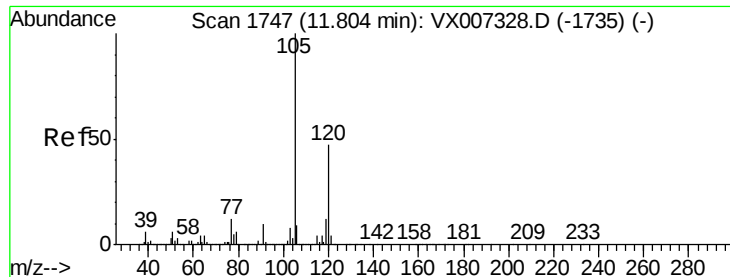


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0

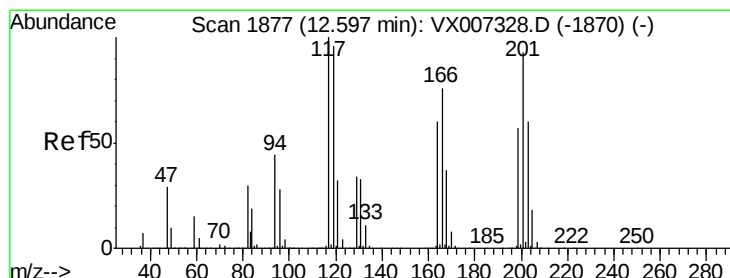
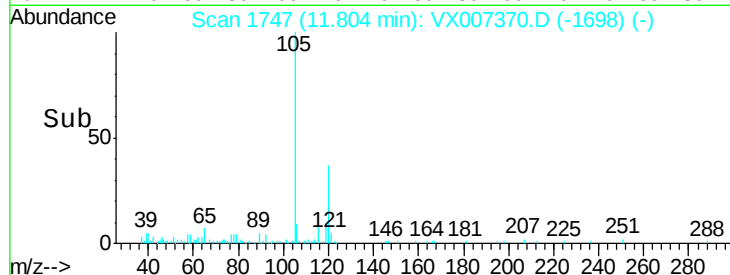
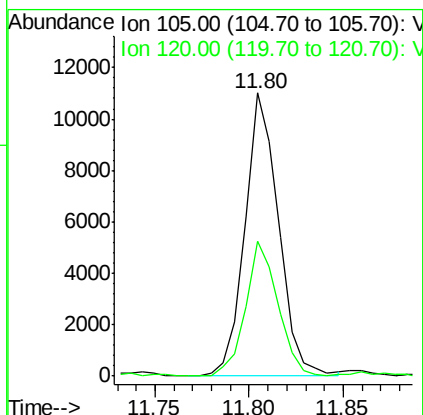
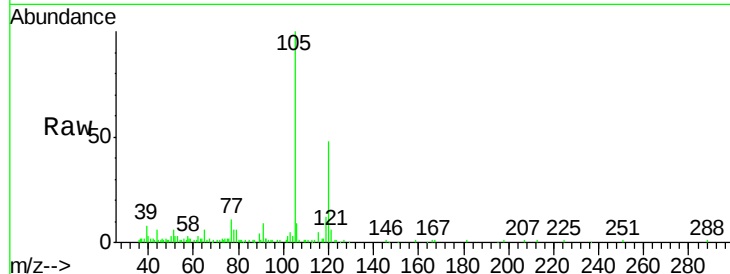




#84
 1,2,4-Trimethylbenzene
 Concen: 0.654 ug/l
 RT: 11.80 min Scan# 1747
 Delta R.T. 0.00 min
 Lab File: VX007370.D
 Acq: 05 Feb 2019 12:18

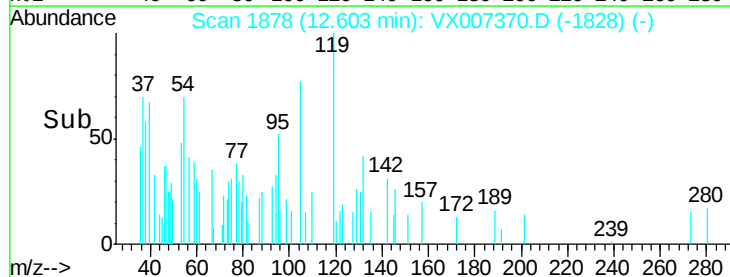
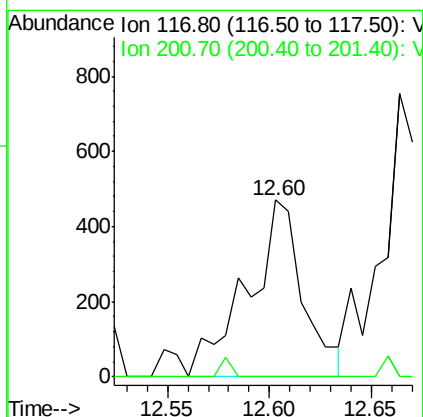
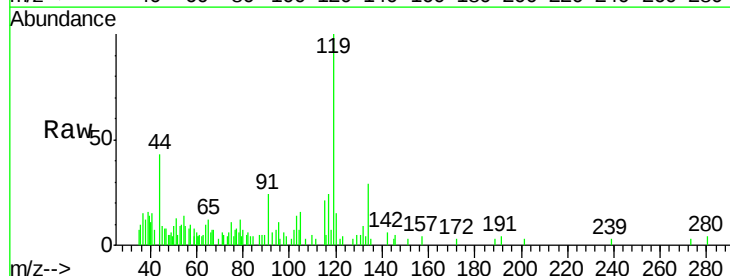
Instrument :
 MSVOA_X
 ClientSampleId :
 SPLP-LEACH-AMND-COMP-1

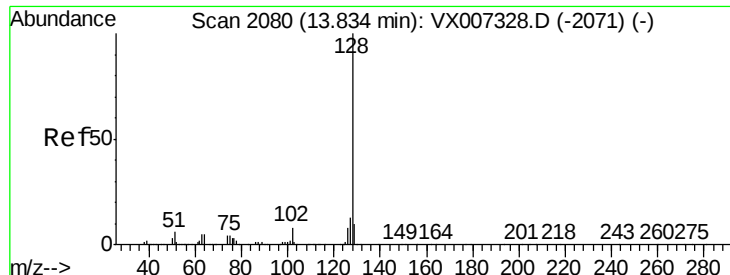
Tot Ion:105 Resp: 13661
 Ion Ratio Lower Upper
 105 100
 120 45.6 23.1 69.3



#90
 Hexachloroethane
 Concen: 0.267 ug/l
 RT: 12.60 min Scan# 1878
 Delta R.T. 0.01 min
 Lab File: VX007370.D
 Acq: 05 Feb 2019 12:18

Tgt Ion:117 Resp: 888
 Ion Ratio Lower Upper
 117 100
 201 0.0 44.9 134.7#





#95

Naphthalene

Concen: 9.792 ug/l

RT: 13.83 min Scan# 2080

Delta R.T. 0.00 min

Lab File: VX007370.D

Acq: 05 Feb 2019 12:18

Instrument :

MSVOA_X

ClientSampleId :

SPLP-LEACH-AMND-COMP-1

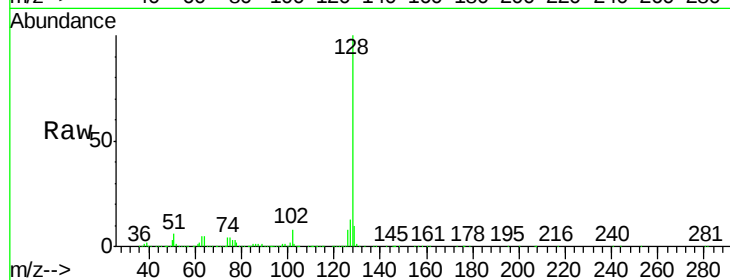
Tot Ion:128 Resp: 244433

Ion Ratio Lower Upper

128 100

127 12.7 10.5 15.7

129 11.2 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

