

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN111918\
 Data File : VN052381.D
 Acq On : 19 Nov 2018 13:34
 Operator : MD\SY
 Sample : J5993-10
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 7 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 SPLP-LEACHATE-AMENDED-WCC-

Quant Time: Nov 20 07:11:13 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N111418W.M
 Quant Title : SW846 8260
 QLast Update : Thu Nov 15 03:02:37 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	297815	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	500223	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	406378	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	144368	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	215418	51.21	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.42%	
35) Dibromofluoromethane	7.59	113	154270	47.81	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.62%	
50) Toluene-d8	10.09	98	619127	48.78	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.56%	
62) 4-Bromofluorobenzene	12.40	95	177672	42.55	ug/l	0.00
Spiked Amount	50.000		Recovery	=	85.10%	

Target Compounds

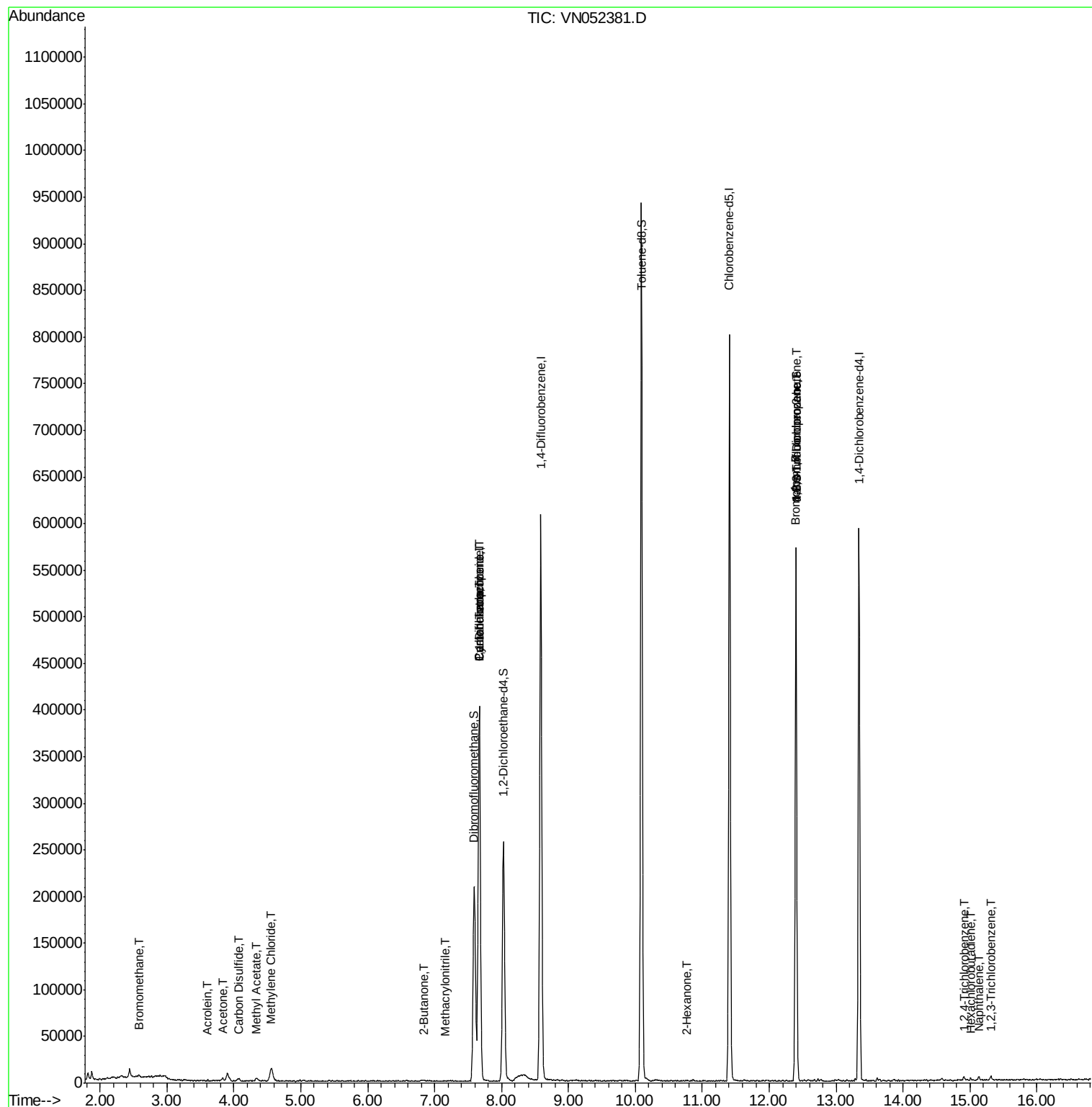
						Qvalue
5) Bromomethane	2.58	94	490	0.207	ug/l	97
13) Acrolein	3.60	56	94	22.027	ug/l #	52
16) Acetone	3.82	43	4551	3.930	ug/l	94
17) Carbon Disulfide	4.08	76	4025	0.458	ug/l #	92
18) Methyl Acetate	4.33	43	2563	1.215	ug/l #	88
20) Methylene Chloride	4.56	84	8811	1.826	ug/l	89
25) 2-Butanone	6.84	43	482	0.296	ug/l #	52
31) Cyclohexane	7.67	56	9475	0.430	ug/l #	38
36) 1,1-Dichloropropene	7.67	75	27668	5.518	ug/l #	52
38) Carbon Tetrachloride	7.67	117	32016	6.951	ug/l #	16
41) Methacrylonitrile	7.17	41	101	3.742	ug/l #	100
59) 2-Hexanone	10.76	43	1000	0.411	ug/l #	57
71) Bromoform	12.39	173	355	0.205	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	102617	41.890	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	102617	135.867	ug/l #	5
93) 1,2,4-Trichlorobenzene	14.91	180	1182	2.779	ug/l	80
94) Hexachlorobutadiene	15.01	225	530	0.498	ug/l	77
95) Naphthalene	15.13	128	3140	3.187	ug/l #	90
96) 1,2,3-Trichlorobenzene	15.31	180	1133	0.642	ug/l	91

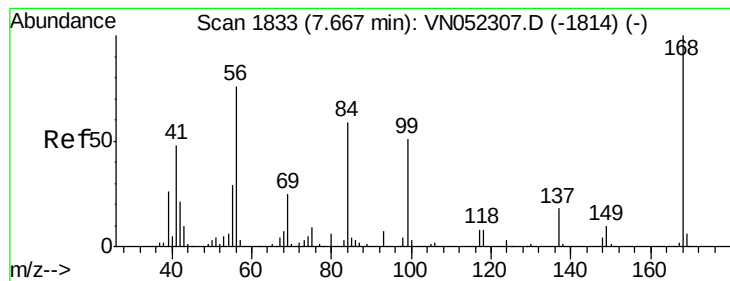
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.00 min

Lab File: VN052381.D

Acq: 19 Nov 2018 13:34

Instrument :

MSVOA_N

ClientSampleId :

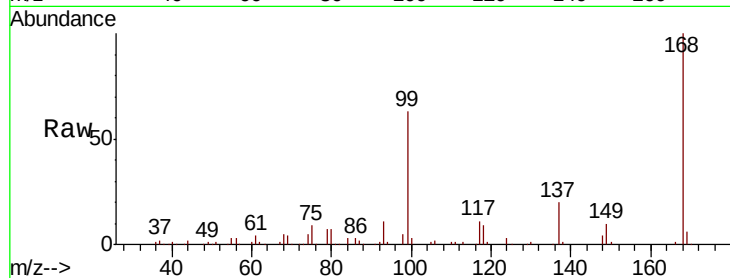
SPLP-LEACHATE-AMENDED-WCC-

Tot Ion:168 Resp: 297815

Ion Ratio Lower Upper

168 100

99 62.6 47.9 71.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.67

150000

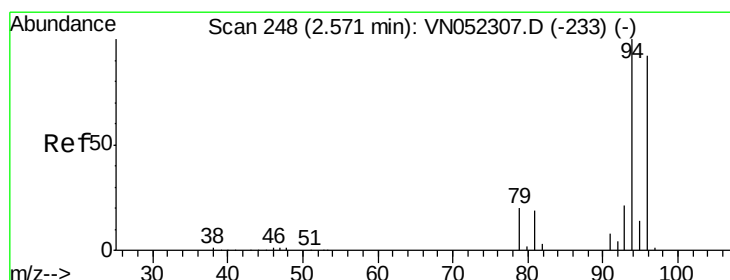
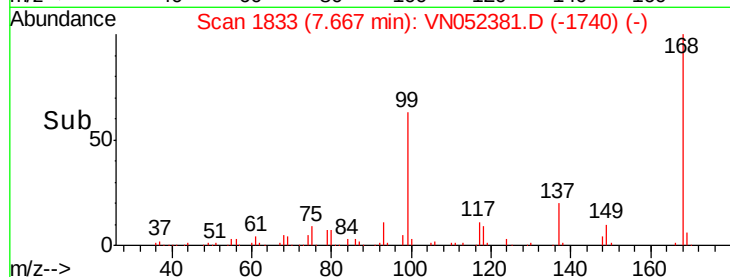
100000

50000

0

Time-->

7.60 7.70 7.80



#5

Bromomethane

Concen: 0.207 ug/l

RT: 2.58 min Scan# 251

Delta R.T. 0.01 min

Lab File: VN052381.D

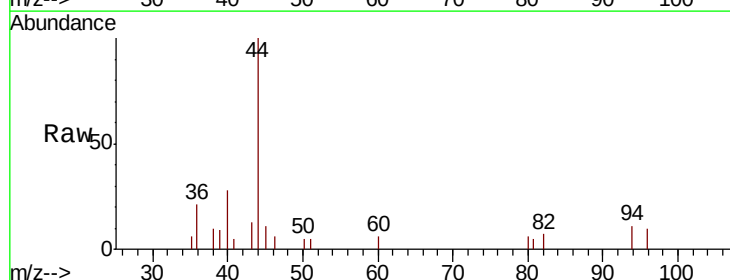
Acq: 19 Nov 2018 13:34

Tgt Ion: 94 Resp: 490

Ion Ratio Lower Upper

94 100

96 94.4 73.6 110.4



Abundance Ion 93.90 (93.60 to 94.60): VNO

Ion 95.90 (95.60 to 96.60): VNO

2.58

400

300

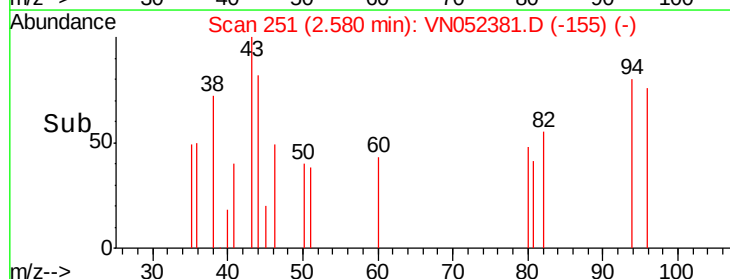
200

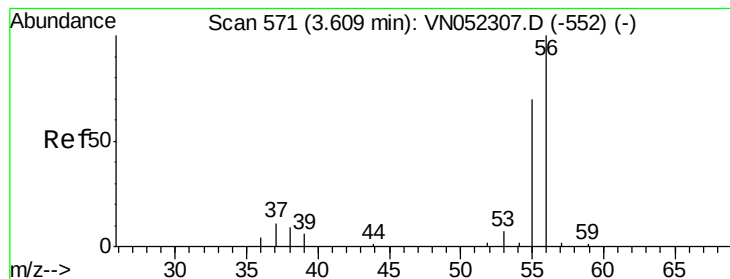
100

0

Time-->

2.56 2.58 2.60





#13

Acrolein

Concen: 22.027 ug/l

RT: 3.60 min Scan# 569

Delta R.T. -0.01 min

Lab File: VN052381.D

Acq: 19 Nov 2018 13:34

Instrument :

MSVOA_N

ClientSampleId :

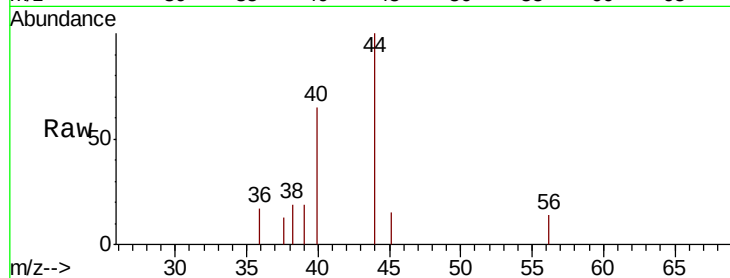
SPLP-LEACHATE-AMENDED-WCC-

Tot Ion: 56 Resp: 94

Ion Ratio Lower Upper

56 100

55 31.9 57.6 86.4#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

3.60

150

100

50

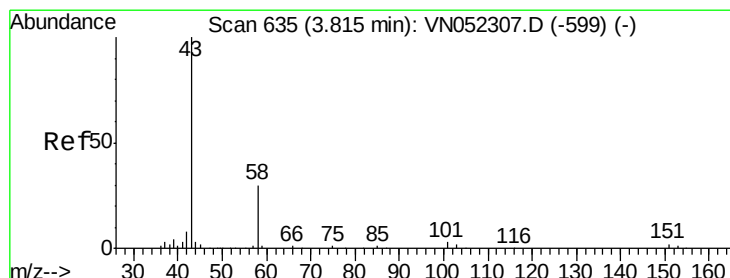
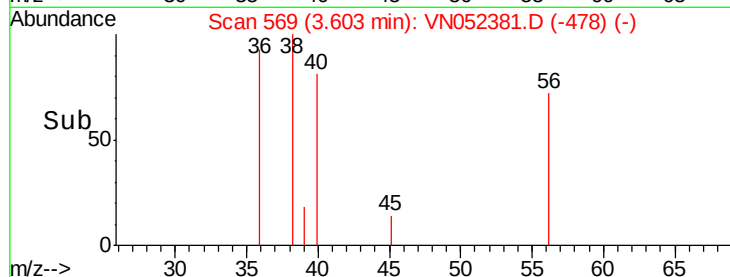
0

Time-->

3.59

3.60

3.61



#16

Acetone

Concen: 3.930 ug/l

RT: 3.82 min Scan# 637

Delta R.T. 0.01 min

Lab File: VN052381.D

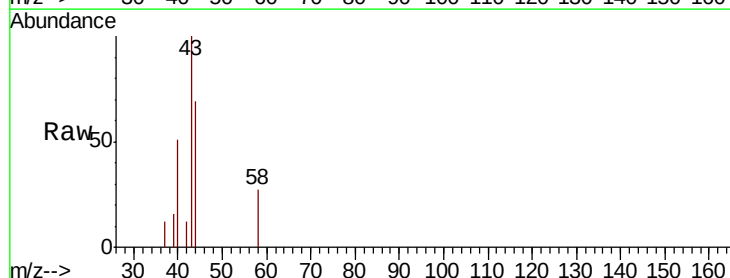
Acq: 19 Nov 2018 13:34

Tgt Ion: 43 Resp: 4551

Ion Ratio Lower Upper

43 100

58 27.2 24.2 36.4



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

1500

1000

500

0

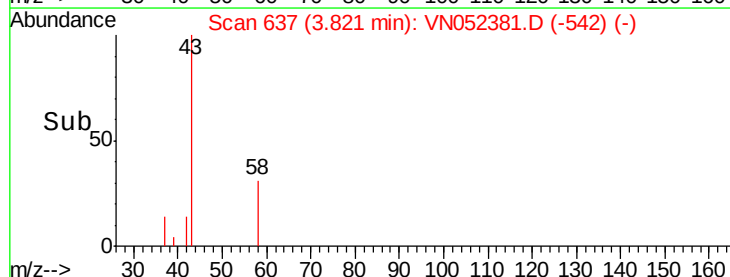
Time-->

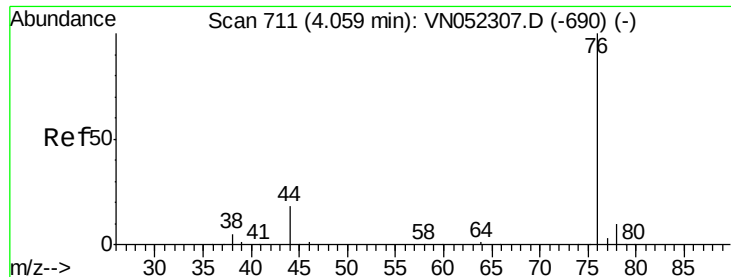
3.75

3.80

3.85

3.90





#17

Carbon Disulfide

Concen: 0.458 ug/l

RT: 4.08 min Scan# 716

Delta R.T. 0.02 min

Lab File: VN052381.D

Acq: 19 Nov 2018 13:34

Instrument :

MSVOA_N

ClientSampleId :

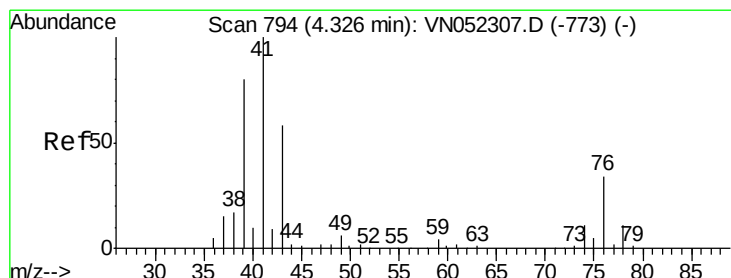
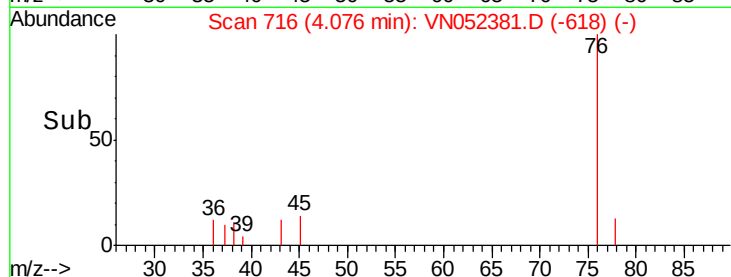
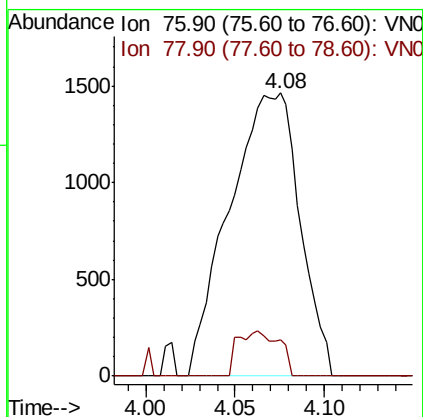
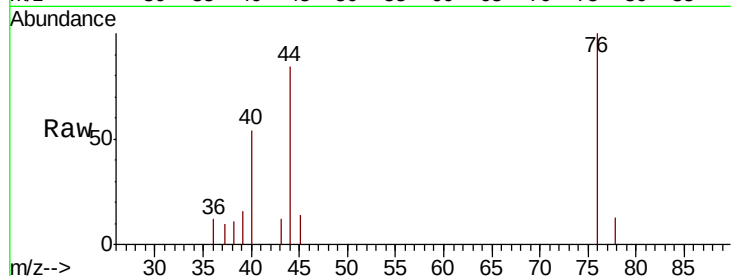
SPLP-LEACHATE-AMENDED-WCC-

Tot Ion: 76 Resp: 4025

Ion Ratio Lower Upper

76 100

78 12.6 7.7 11.5#



#18

Methyl Acetate

Concen: 1.215 ug/l

RT: 4.33 min Scan# 795

Delta R.T. 0.00 min

Lab File: VN052381.D

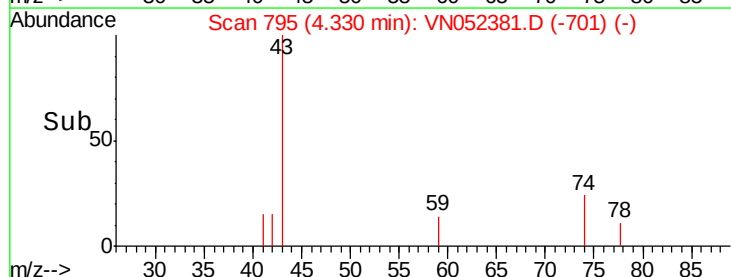
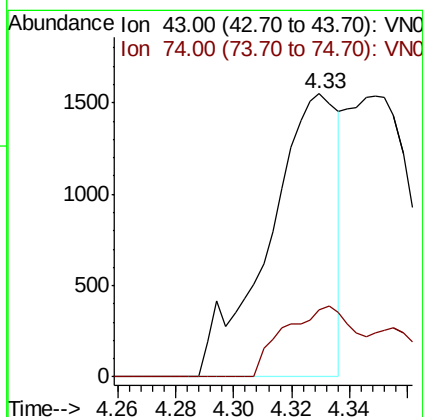
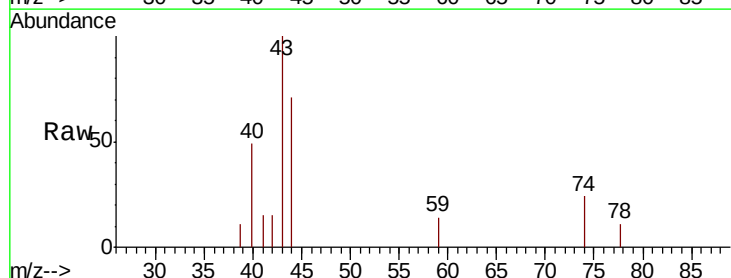
Acq: 19 Nov 2018 13:34

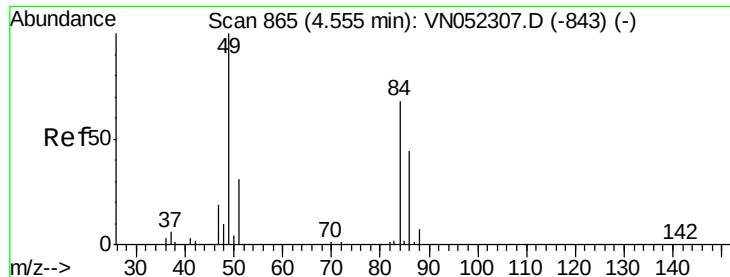
Tgt Ion: 43 Resp: 2563

Ion Ratio Lower Upper

43 100

74 25.5 15.9 23.9#

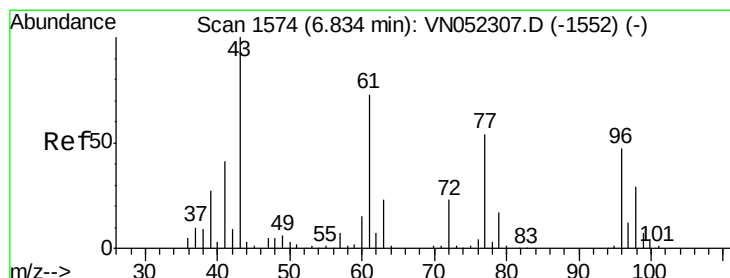
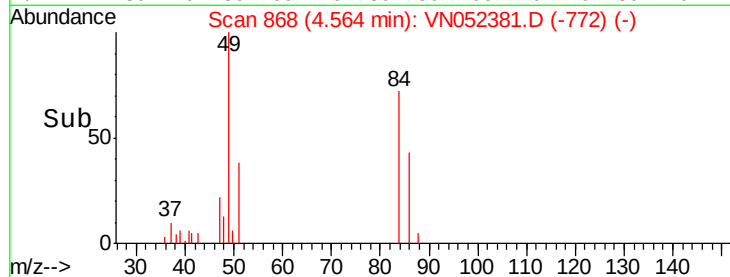
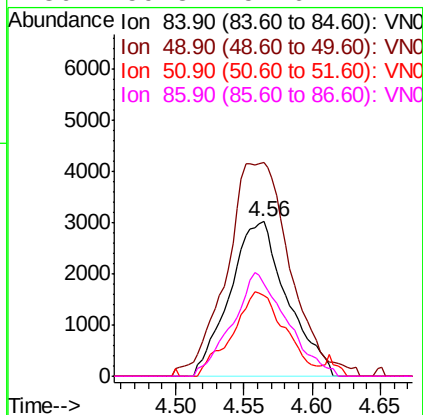
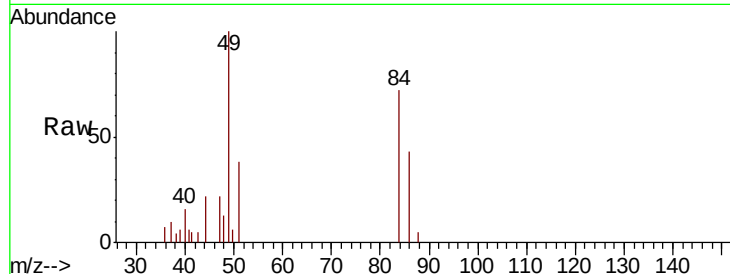




#20
Methvlene Chloride
Concen: 1.826 ug/l
RT: 4.56 min Scan# 868
Delta R.T. 0.01 min
Lab File: VN052381.D
Acq: 19 Nov 2018 13:34

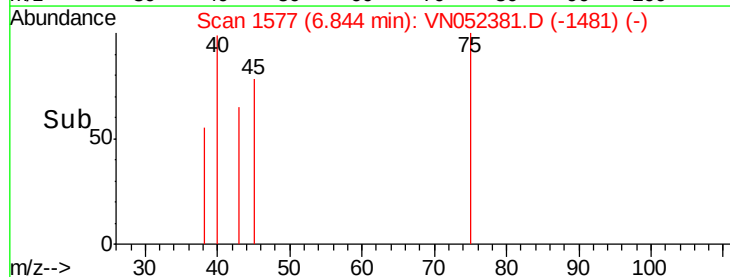
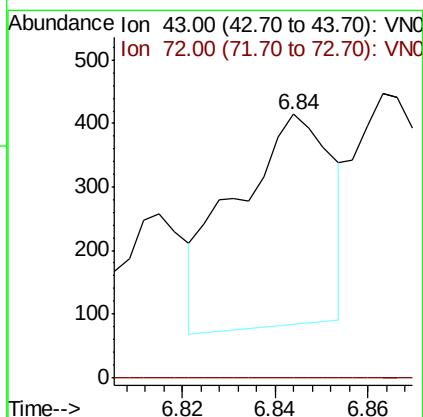
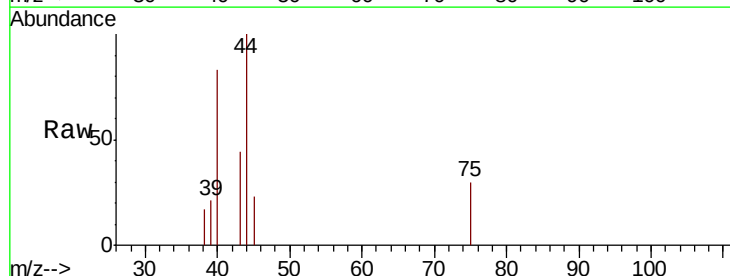
Instrument :
MSVOA_N
ClientSampleId :
SPLP-LEACHATE-AMENDED-WCC-

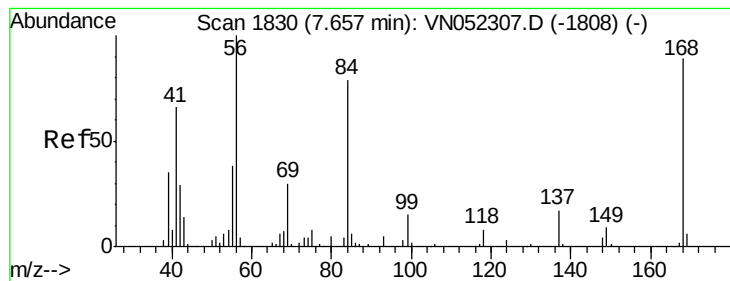
Tot Ion: 84 Resp: 8811
Ion Ratio Lower Upper
84 100
49 130.7 118.2 177.2
51 51.9 36.1 54.1
86 59.8 51.6 77.4



#25
2-Butanone
Concen: 0.296 ug/l
RT: 6.84 min Scan# 1577
Delta R.T. 0.01 min
Lab File: VN052381.D
Acq: 19 Nov 2018 13:34

Tgt Ion: 43 Resp: 482
Ion Ratio Lower Upper
43 100
72 0.0 18.6 27.8#





#31

Cyclohexane

Concen: 0.430 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.01 min

Lab File: VN052381.D

Acq: 19 Nov 2018 13:34

Instrument :

MSVOA_N

ClientSampleId :

SPLP-LEACHATE-AMENDED-WCC-

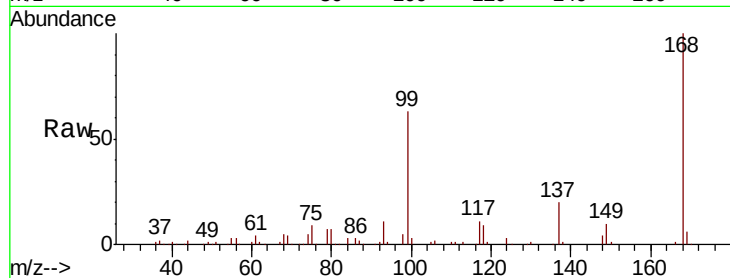
Tot Ion: 56 Resp: 9475

Ion Ratio Lower Upper

56 100

69 129.2 23.8 35.8#

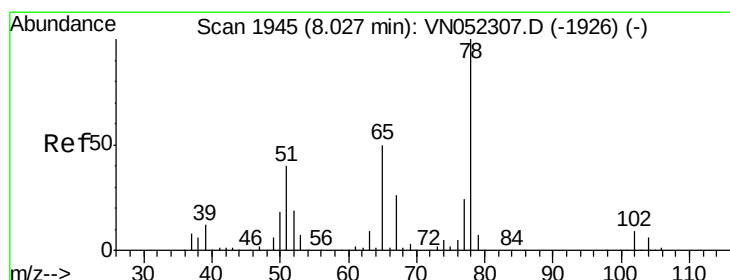
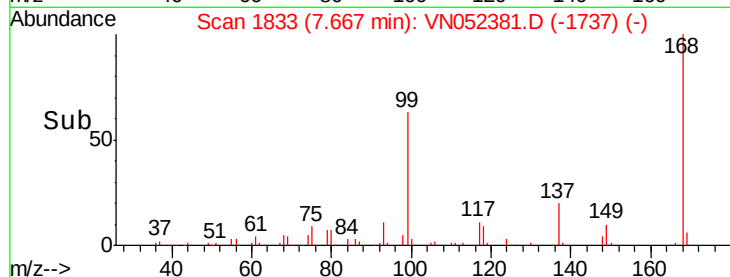
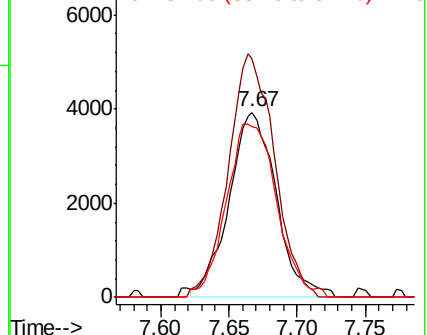
84 92.5 63.0 94.6



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: Below ug/l

RT: 8.03 min Scan# 1945

Delta R.T. -0.00 min

Lab File: VN052381.D

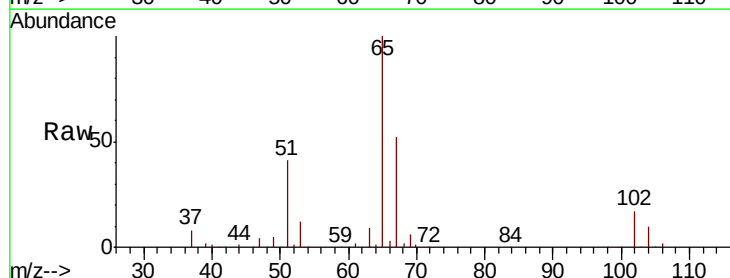
Acq: 19 Nov 2018 13:34

Tgt Ion: 65 Resp: 215418

Ion Ratio Lower Upper

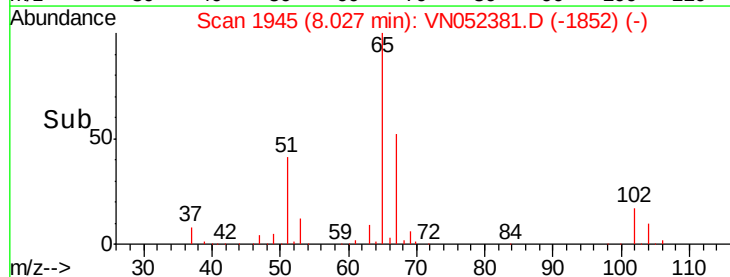
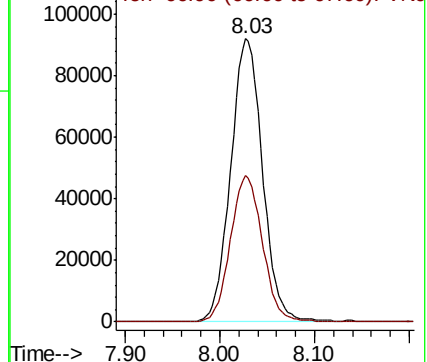
65 100

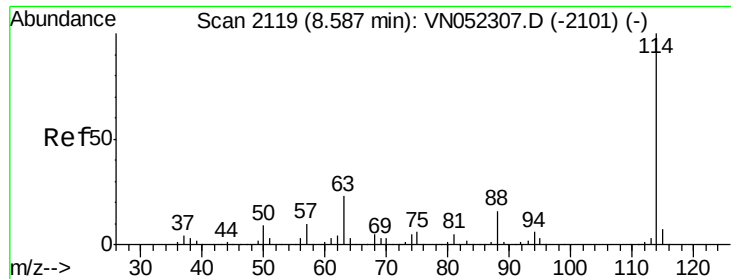
67 51.7 0.0 105.2



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

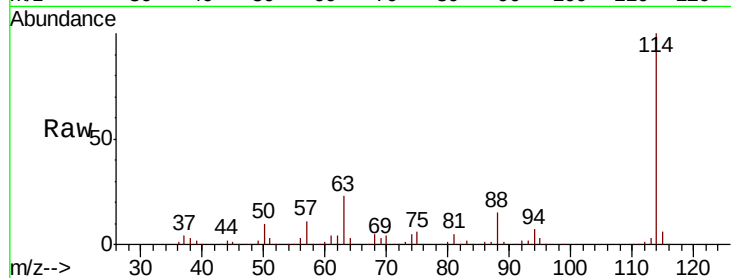




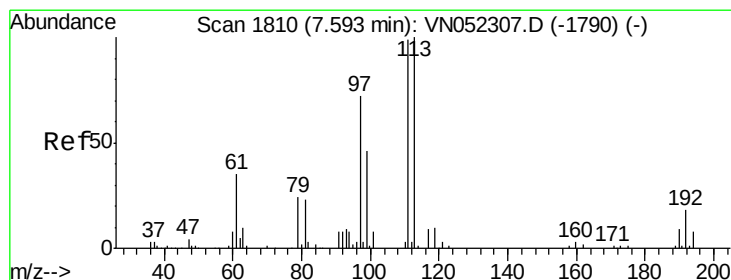
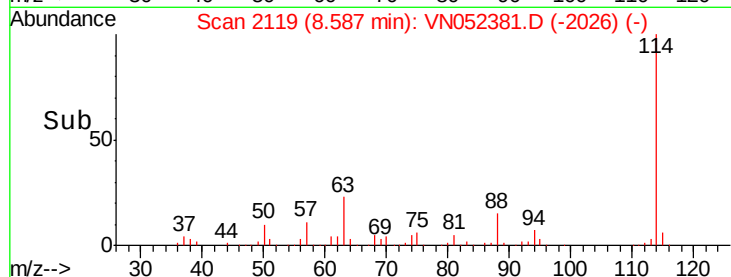
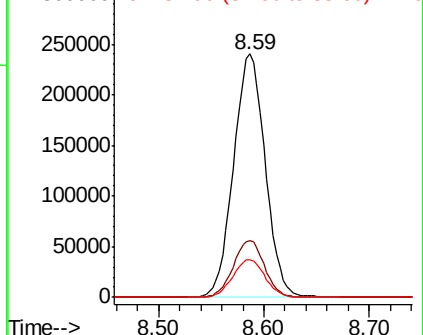
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. -0.00 min
 Lab File: VN052381.D
 Acq: 19 Nov 2018 13:34

Instrument :
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Tot Ion:114 Resp: 500223
 Ion Ratio Lower Upper
 114 100
 63 23.4 0.0 45.4
 88 15.5 0.0 31.2

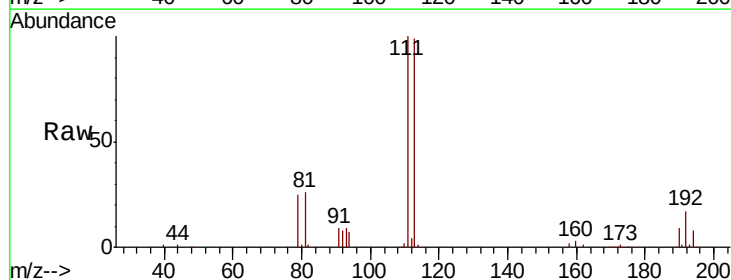


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

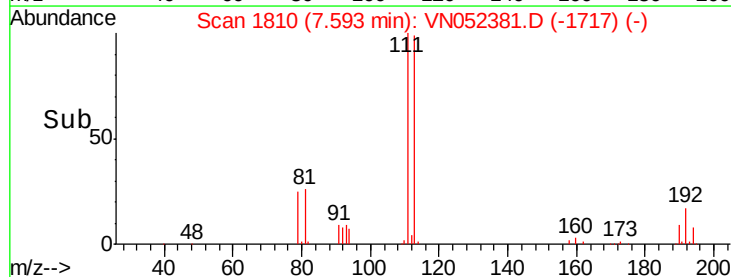
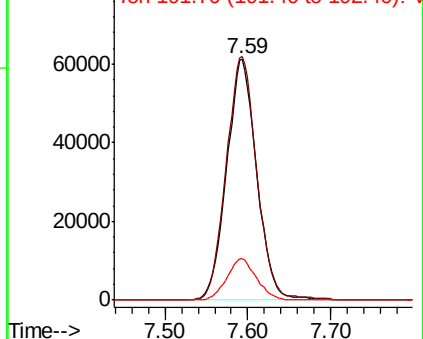


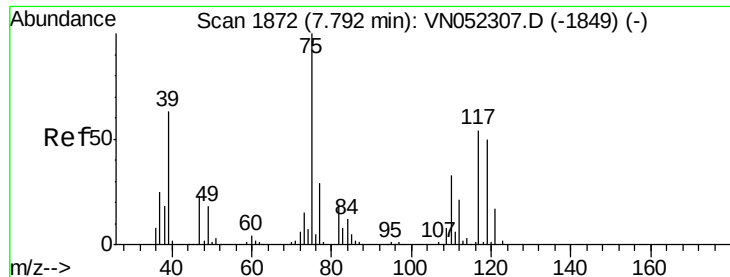
#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. -0.00 min
 Lab File: VN052381.D
 Acq: 19 Nov 2018 13:34

Tgt Ion:113 Resp: 154270
 Ion Ratio Lower Upper
 113 100
 111 102.9 81.0 121.6
 192 17.0 13.8 20.6



Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

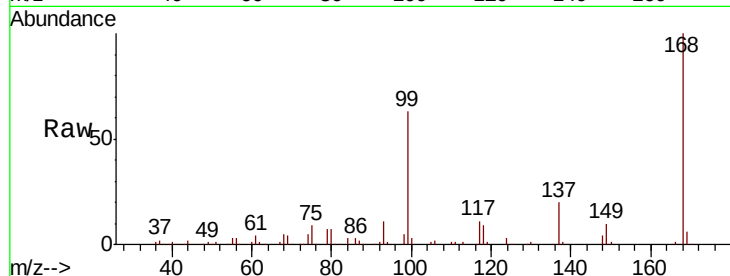




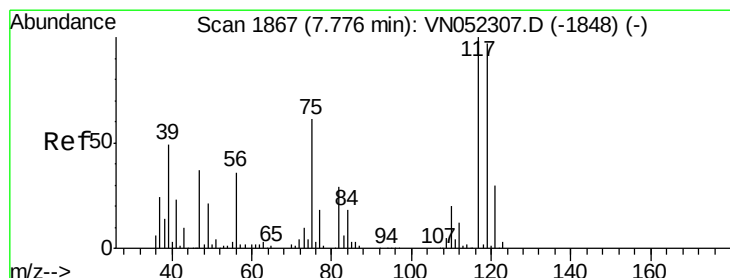
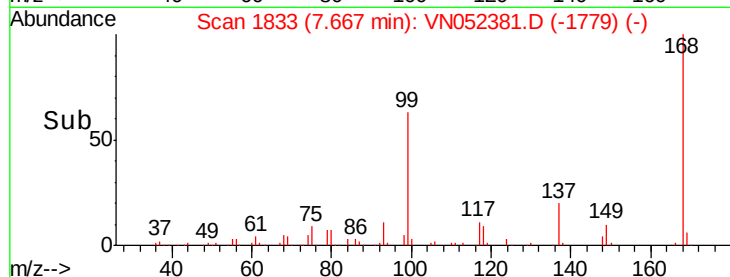
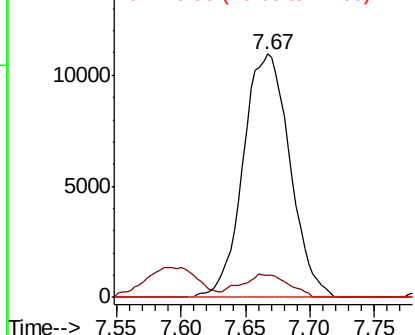
#36
 1,1-Dichloropropene
 Concen: 5.518 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.13 min
 Lab File: VN052381.D
 Acq: 19 Nov 2018 13:34

Instrument :
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 SPLP-LEACHATE-AMENDED-WCC-

Tot Ion	Ratio	Lower	Upper
75	100		
110	9.7	16.5	49.5#
77	0.0	24.2	36.2#

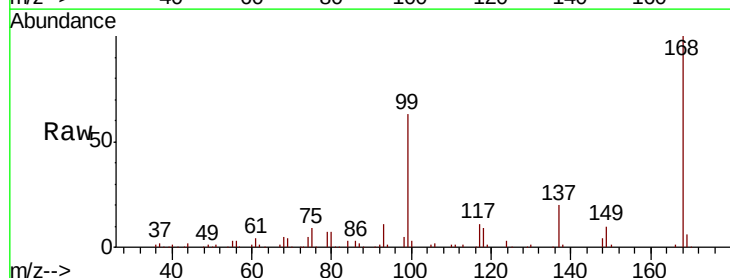


Abundance Ion 74.90 (74.60 to 75.60): VN0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VN0

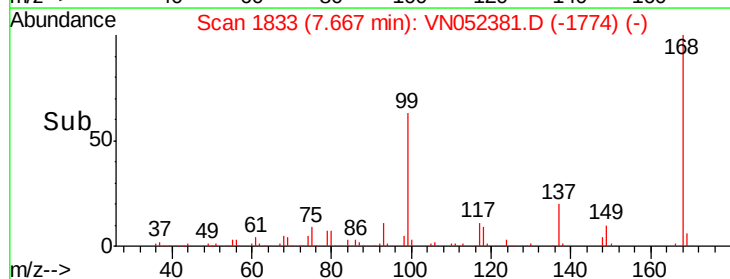
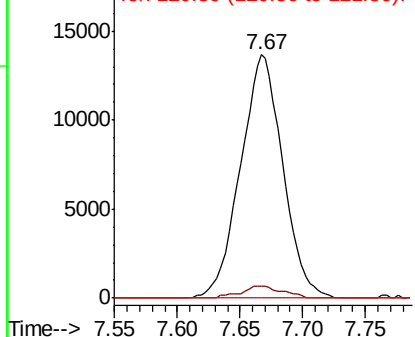


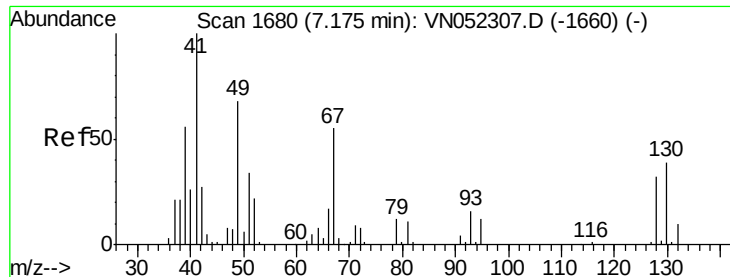
#38
 Carbon Tetrachloride
 Concen: 6.951 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.11 min
 Lab File: VN052381.D
 Acq: 19 Nov 2018 13:34

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.1	77.4	116.0#
121	0.0	24.0	36.0#



Abundance Ion 116.80 (116.50 to 117.50): V
 Ion 118.80 (118.50 to 119.50): V
 Ion 120.80 (120.50 to 121.50): V

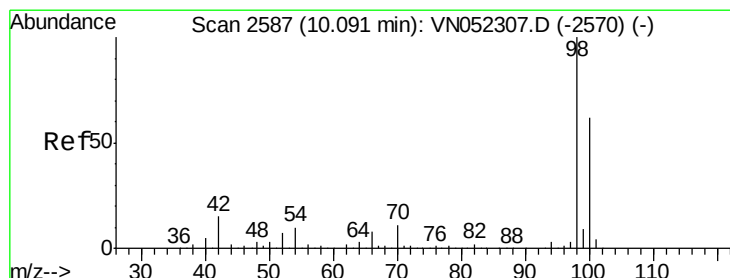
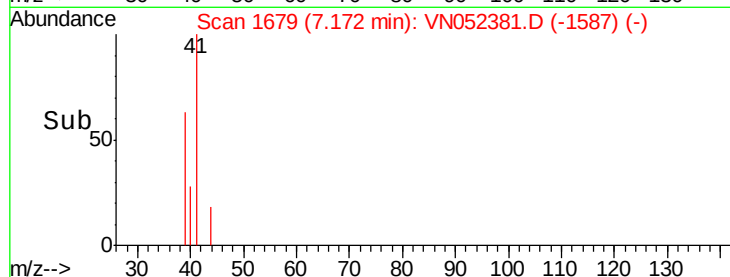
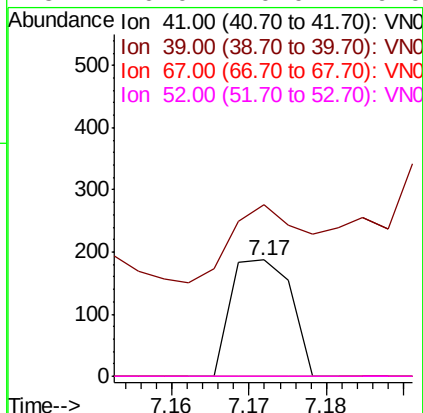
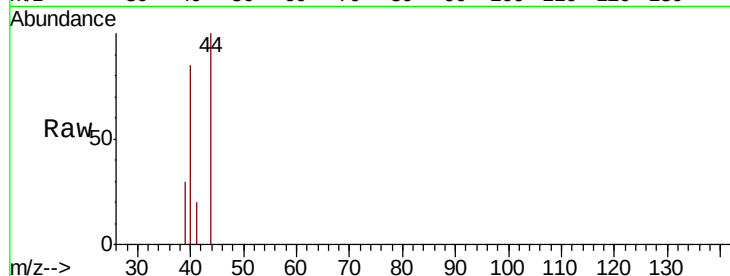




#41
Methacrylonitrile
Concen: 3.742 ug/l
RT: 7.17 min Scan# 1679
Delta R.T. -0.00 min
Lab File: VN052381.D
Acq: 19 Nov 2018 13:34

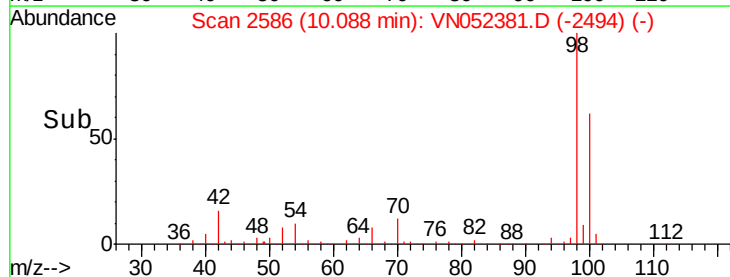
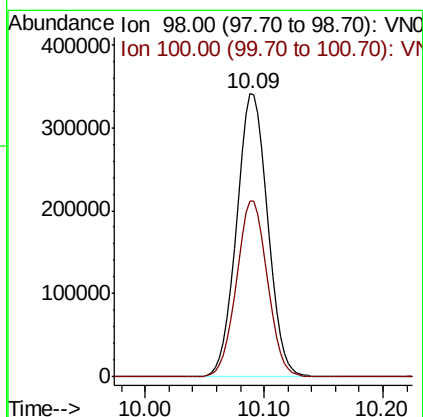
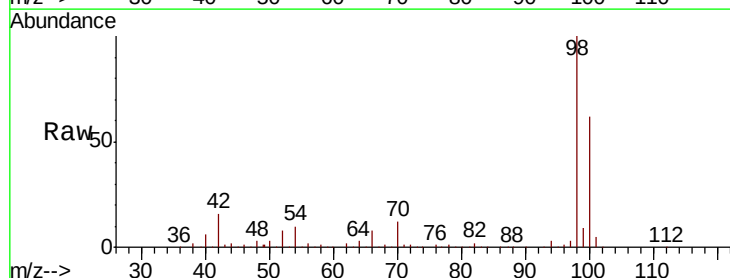
Instrument :
MSVOA_N
ClientSampleId :
SPLP-LEACHATE-AMENDED-WCC-

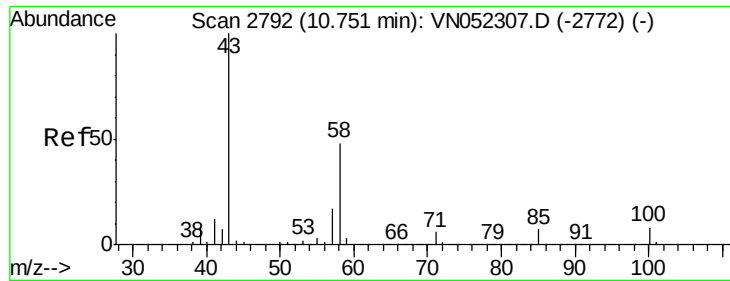
Tot Ion:	41	Resp:	101
Ion	Ratio	Lower	Upper
41	100		
39	80.2	0.0	0.0#
67	0.0	0.0	0.0
52	0.0	0.0	0.0



#50
Toluene-d8
Concen: N.D. ug/l
RT: 10.09 min Scan# 2586
Delta R.T. -0.00 min
Lab File: VN052381.D
Acq: 19 Nov 2018 13:34

Tgt Ion:	98	Resp:	619127
Ion	Ratio	Lower	Upper
98	100		
100	61.8	49.5	74.3

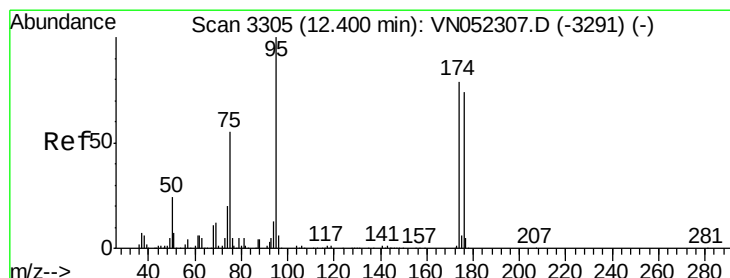
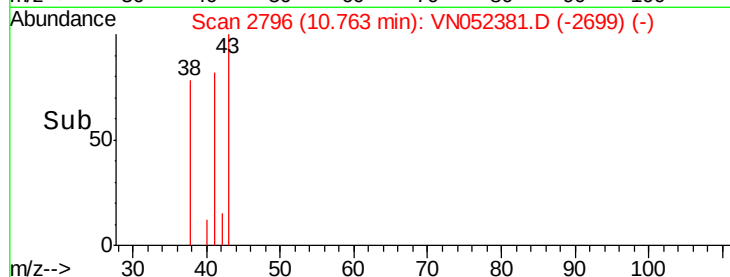
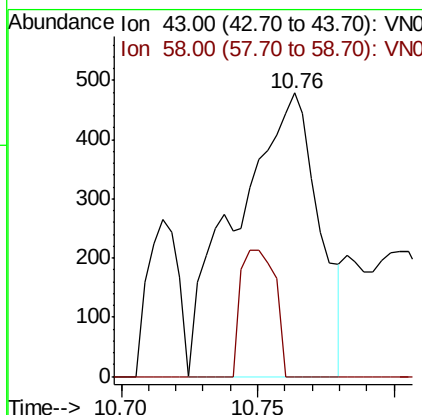
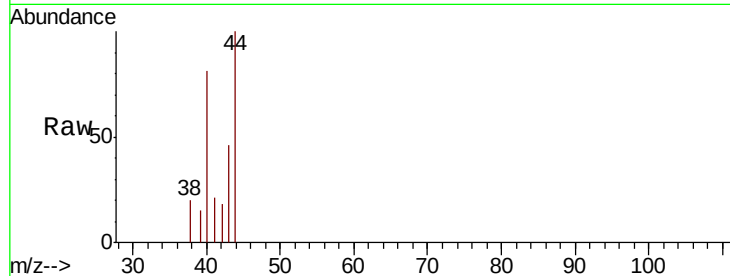




#59
2-Hexanone
Concen: 0.411 ug/l
RT: 10.76 min Scan# 2796
Delta R.T. 0.01 min
Lab File: VN052381.D
Acq: 19 Nov 2018 13:34

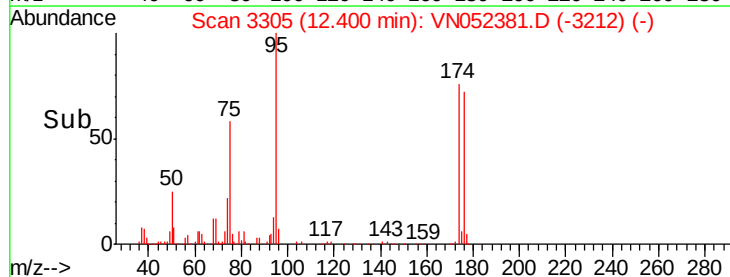
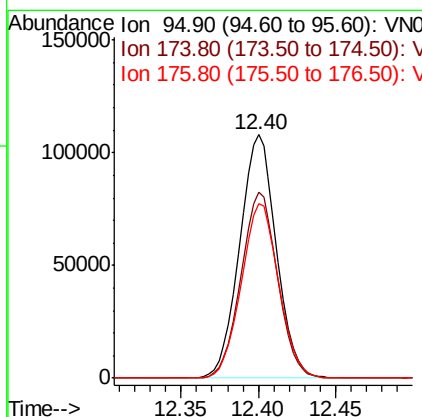
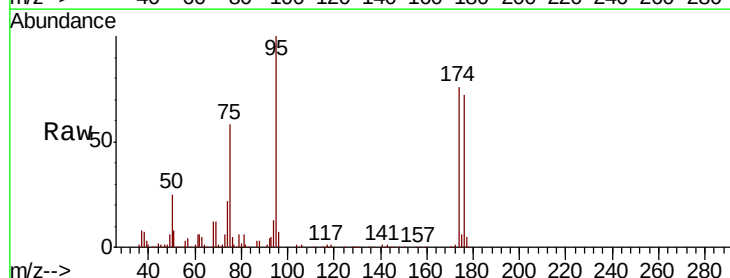
Instrument :
MSVOA_N
ClientSampleId :
SPLP-LEACHATE-AMENDED-WCC-

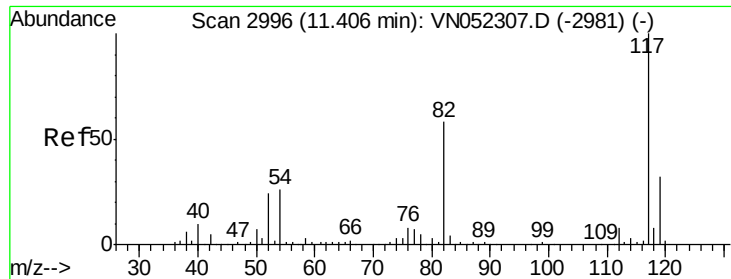
Tot Ion: 43 Resp: 1000
Ion Ratio Lower Upper
43 100
58 18.6 23.5 70.6#



#62
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 12.40 min Scan# 3305
Delta R.T. -0.00 min
Lab File: VN052381.D
Acq: 19 Nov 2018 13:34

Tgt Ion: 95 Resp: 177672
Ion Ratio Lower Upper
95 100
174 76.3 0.0 156.0
176 73.3 0.0 148.4

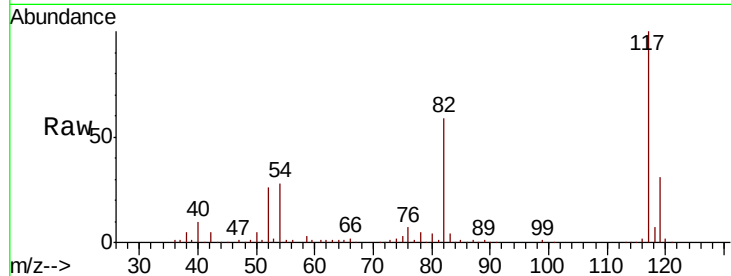




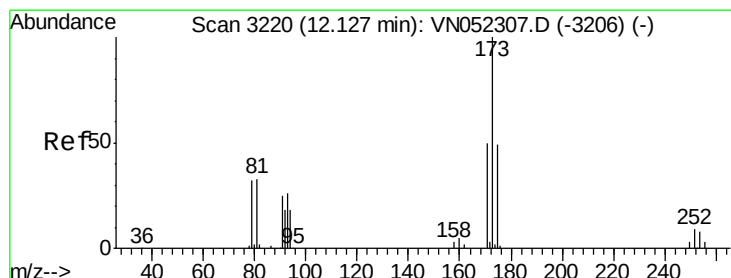
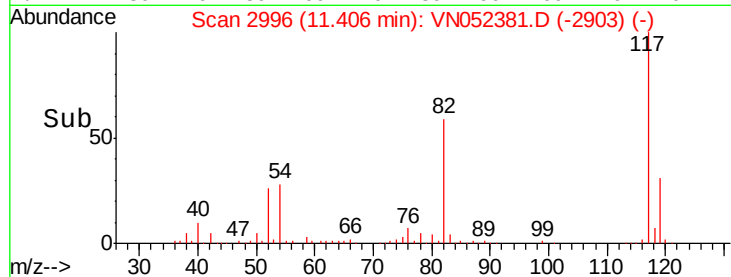
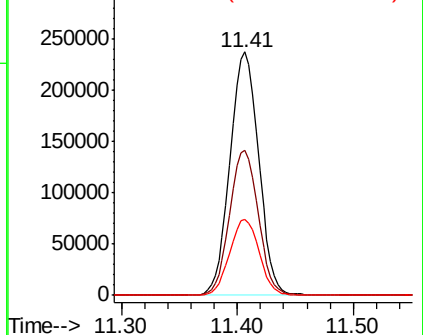
#63
 Chlorobenzene-d5
 Concen: 50.000 ug/l
 RT: 11.41 min Scan# 2996
 Delta R.T. -0.00 min
 Lab File: VN052381.D
 Acq: 19 Nov 2018 13:34

Instrument :
 MSVOA_N
 ClientSampleId :
 SPLP-LEACHATE-AMENDED-WCC-

Tot Ion:117 Resp: 406378
 Ion Ratio Lower Upper
 117 100
 82 59.4 46.5 69.7
 119 31.4 25.7 38.5

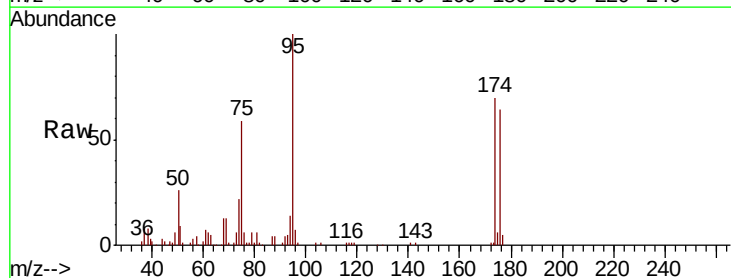


Abundance Ion 116.90 (116.60 to 117.60): V
 Ion 82.00 (81.70 to 82.70): V
 Ion 118.90 (118.60 to 119.60): V

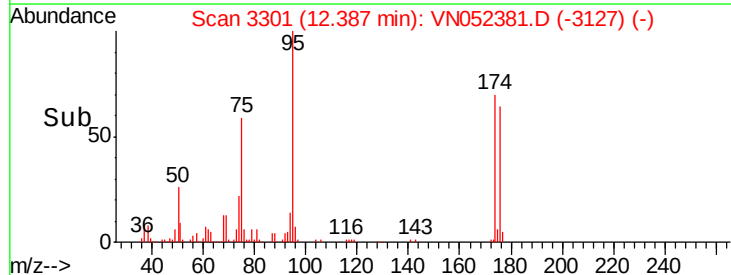
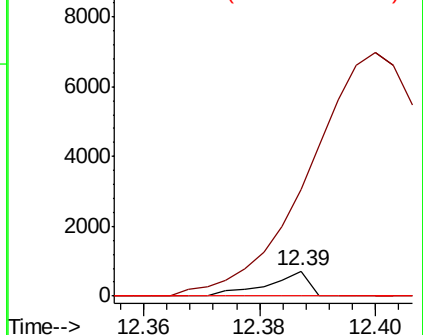


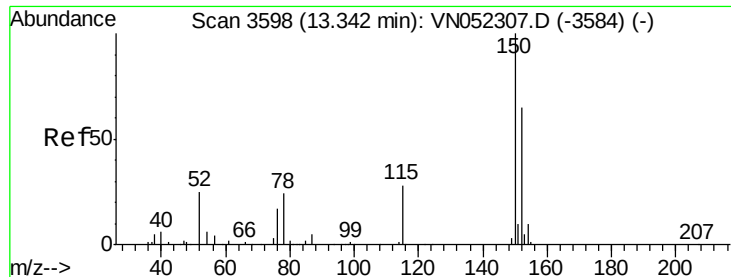
#71
 Bromoform
 Concen: 0.205 ug/l
 RT: 12.39 min Scan# 3301
 Delta R.T. 0.26 min
 Lab File: VN052381.D
 Acq: 19 Nov 2018 13:34

Tgt Ion:173 Resp: 355
 Ion Ratio Lower Upper
 173 100
 175 2748.7 25.0 75.0#
 254 0.0 0.0 0.0



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: VN052381.D

Acq: 19 Nov 2018 13:34

Instrument :

MSVOA_N

ClientSampleId :

SPLP-LEACHATE-AMENDED-WCC-

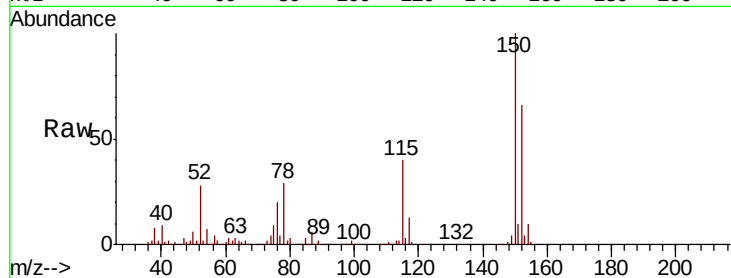
Tot Ion:152 Resp: 144368

Ion Ratio Lower Upper

152 100

115 60.4 30.3 91.0

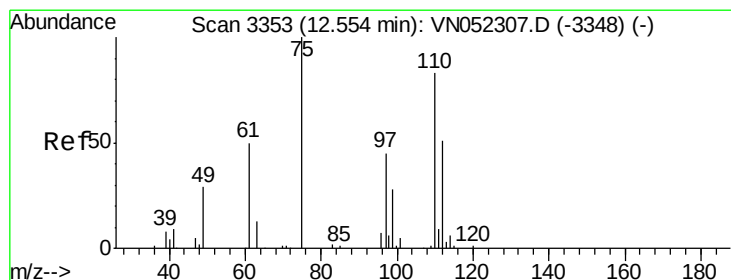
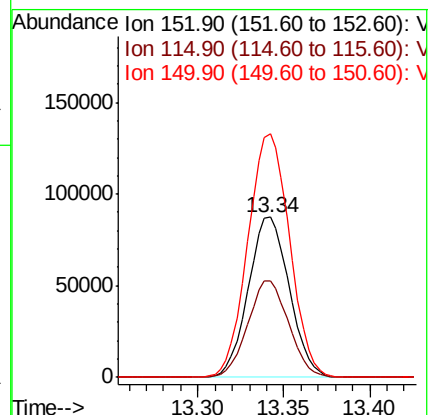
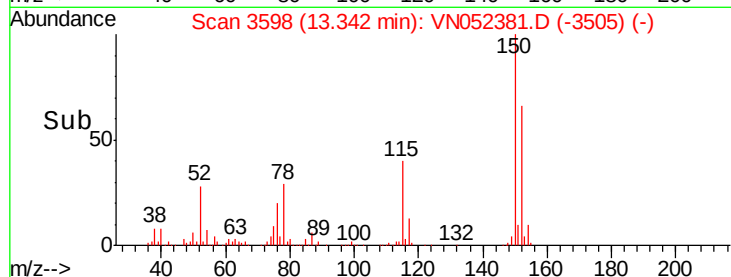
150 154.9 0.0 348.2



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: 41.890 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN052381.D

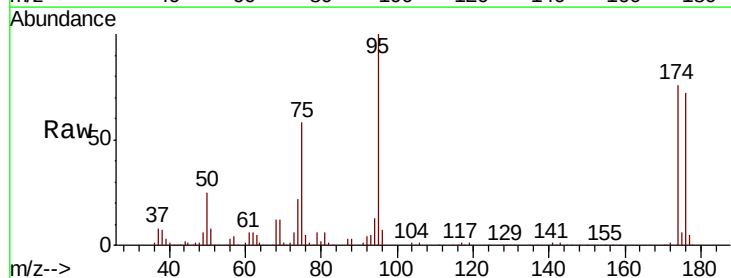
Acq: 19 Nov 2018 13:34

Tgt Ion: 75 Resp: 102617

Ion Ratio Lower Upper

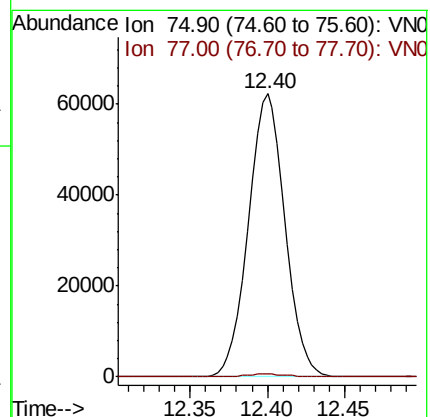
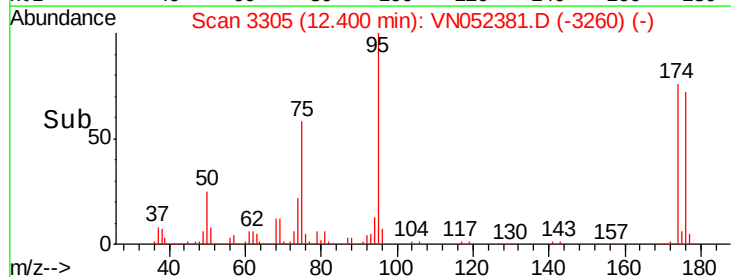
75 100

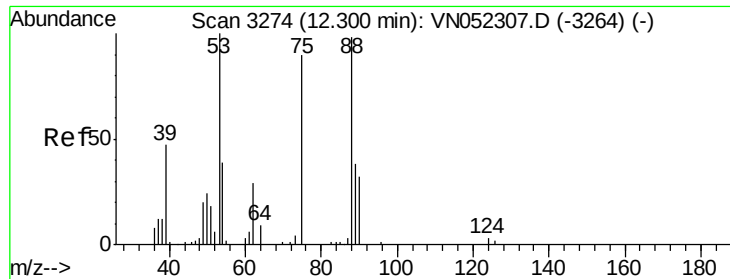
77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 135.867 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN052381.D

Acq: 19 Nov 2018 13:34

Instrument :

MSVOA_N

ClientSampleId :

SPLP-LEACHATE-AMENDED-WCC-

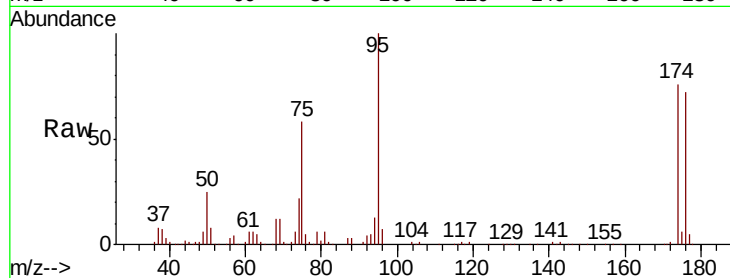
Tot Ion: 75 Resp: 102617

Ion Ratio Lower Upper

75 100

53 0.1 90.2 135.2#

89 0.0 35.4 53.0#

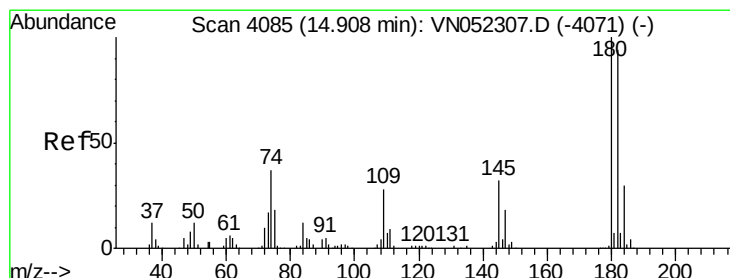
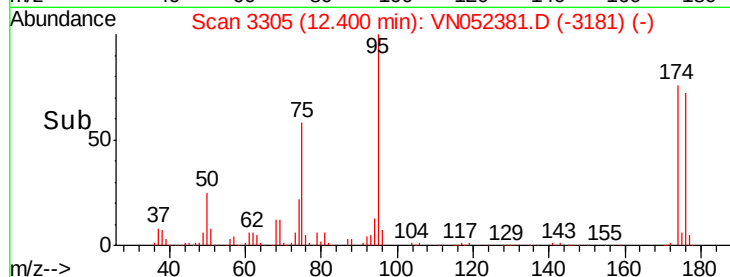
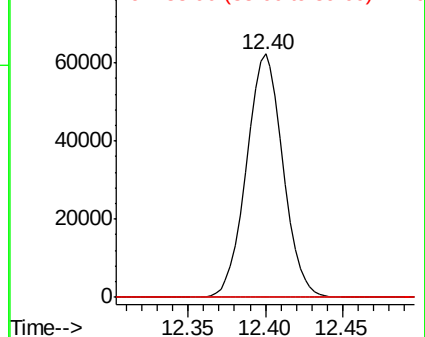


Abundance

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



#93

1,2,4-Trichlorobenzene

Concen: 2.779 ug/l

RT: 14.91 min Scan# 4085

Delta R.T. 0.00 min

Lab File: VN052381.D

Acq: 19 Nov 2018 13:34

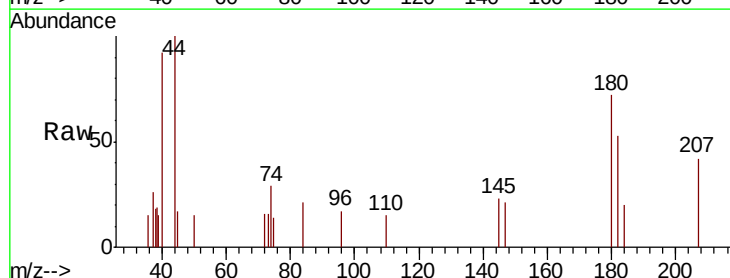
Tgt Ion:180 Resp: 1182

Ion Ratio Lower Upper

180 100

182 71.4 47.6 142.9

145 27.6 15.5 46.5

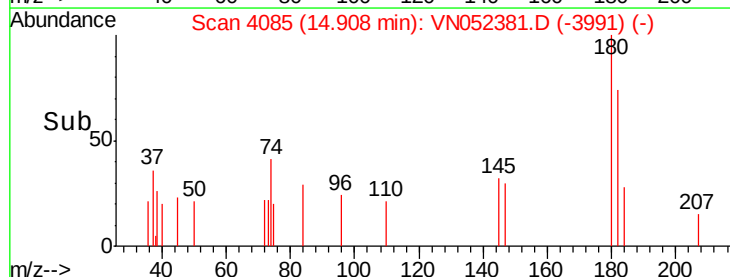
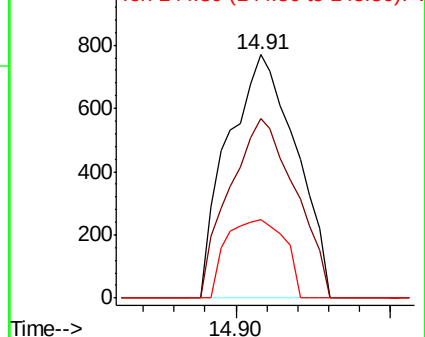


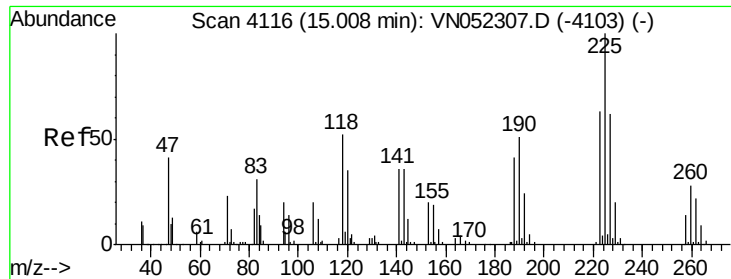
Abundance

Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V





#94

Hexachlorobutadiene

Concen: 0.498 ug/l

RT: 15.01 min Scan# 4116

Delta R.T. -0.00 min

Lab File: VN052381.D

Acq: 19 Nov 2018 13:34

Instrument :

MSVOA_N

ClientSampleId :

SPLP-LEACHATE-AMENDED-WCC-

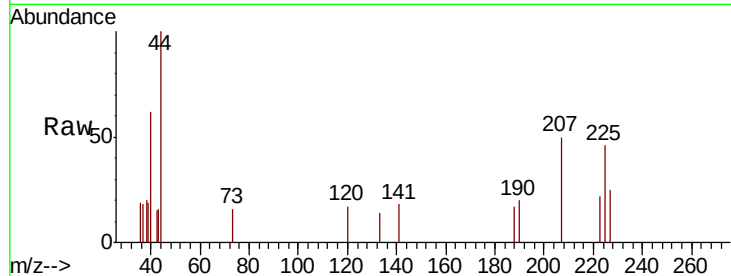
Tot Ion:225 Resp: 530

Ion Ratio Lower Upper

225 100

223 32.8 31.9 95.5

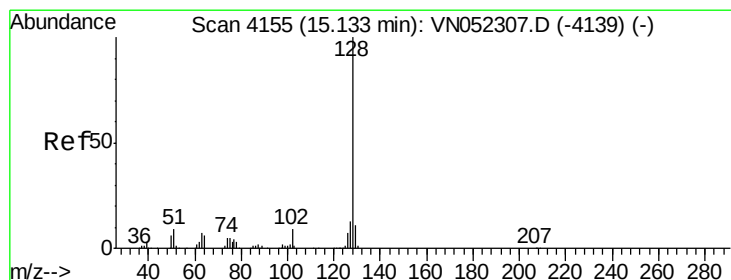
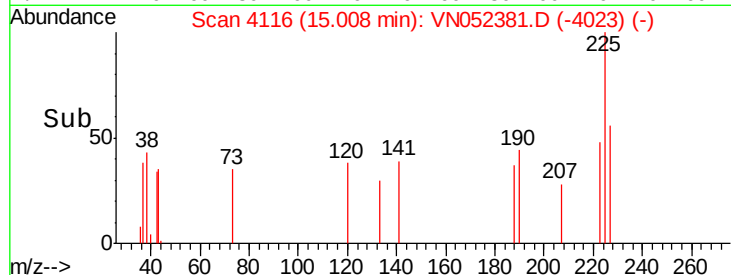
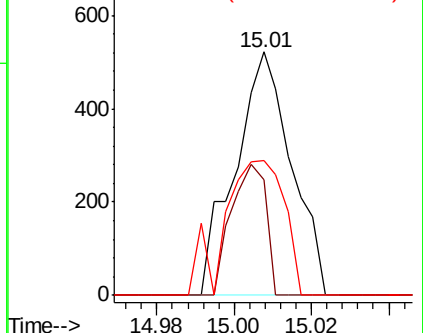
227 58.1 31.6 95.0



Abundance Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V



#95

Naphthalene

Concen: 3.187 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. -0.00 min

Lab File: VN052381.D

Acq: 19 Nov 2018 13:34

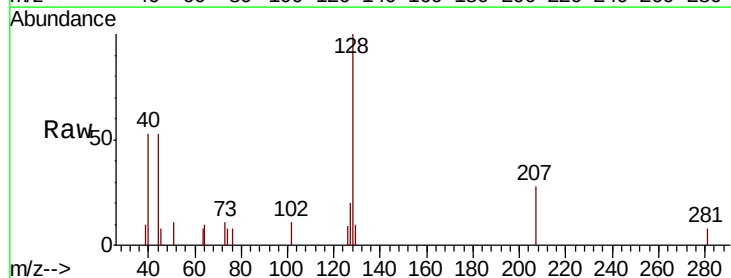
Tgt Ion:128 Resp: 3140

Ion Ratio Lower Upper

128 100

127 14.8 10.4 15.6

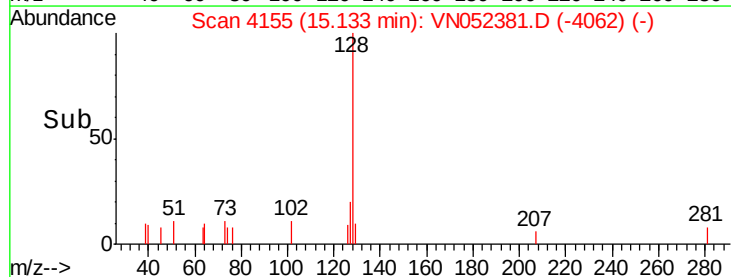
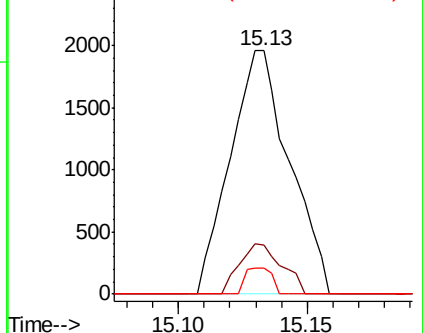
129 4.8 8.6 13.0#

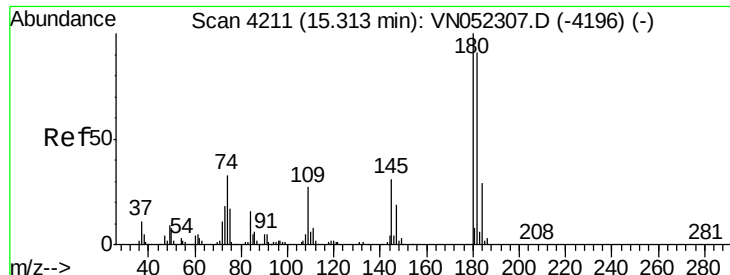


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V





#96
 1,2,3-Trichlorobenzene
 Concen: 0.642 ug/l
 RT: 15.31 min Scan# 4211
 Delta R.T. -0.00 min
 Lab File: VN052381.D
 Acq: 19 Nov 2018 13:34

Instrument :
 MSVOA_N
 ClientSampleId :
 SPLP-LEACHATE-AMENDED-WCC-

Tot Ion	Ratio	Lower	Upper
180	100		
182	102.0	46.5	139.3
145	28.8	16.4	49.2

