

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN091418\
 Data File : VN051212.D
 Acq On : 15 Sep 2018 1:01
 Operator : MD\SY
 Sample : J4906-28
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 43 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 SP-PIT-4

Quant Time: Sep 15 02:00:13 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N091018W.M
 Quant Title : SW846 8260
 QLast Update : Tue Sep 11 02:27:09 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	577943	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	919062	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	773593	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	244960	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	347925	54.10	ug/l	0.00
Spiked Amount			Recovery	=	108.20%	
35) Dibromofluoromethane	7.59	113	344203	49.84	ug/l	0.00
Spiked Amount			Recovery	=	99.68%	
50) Toluene-d8	10.09	98	1233932	47.09	ug/l	0.00
Spiked Amount			Recovery	=	94.18%	
62) 4-Bromofluorobenzene	12.40	95	318714	36.77	ug/l	0.00
Spiked Amount			Recovery	=	73.54%	

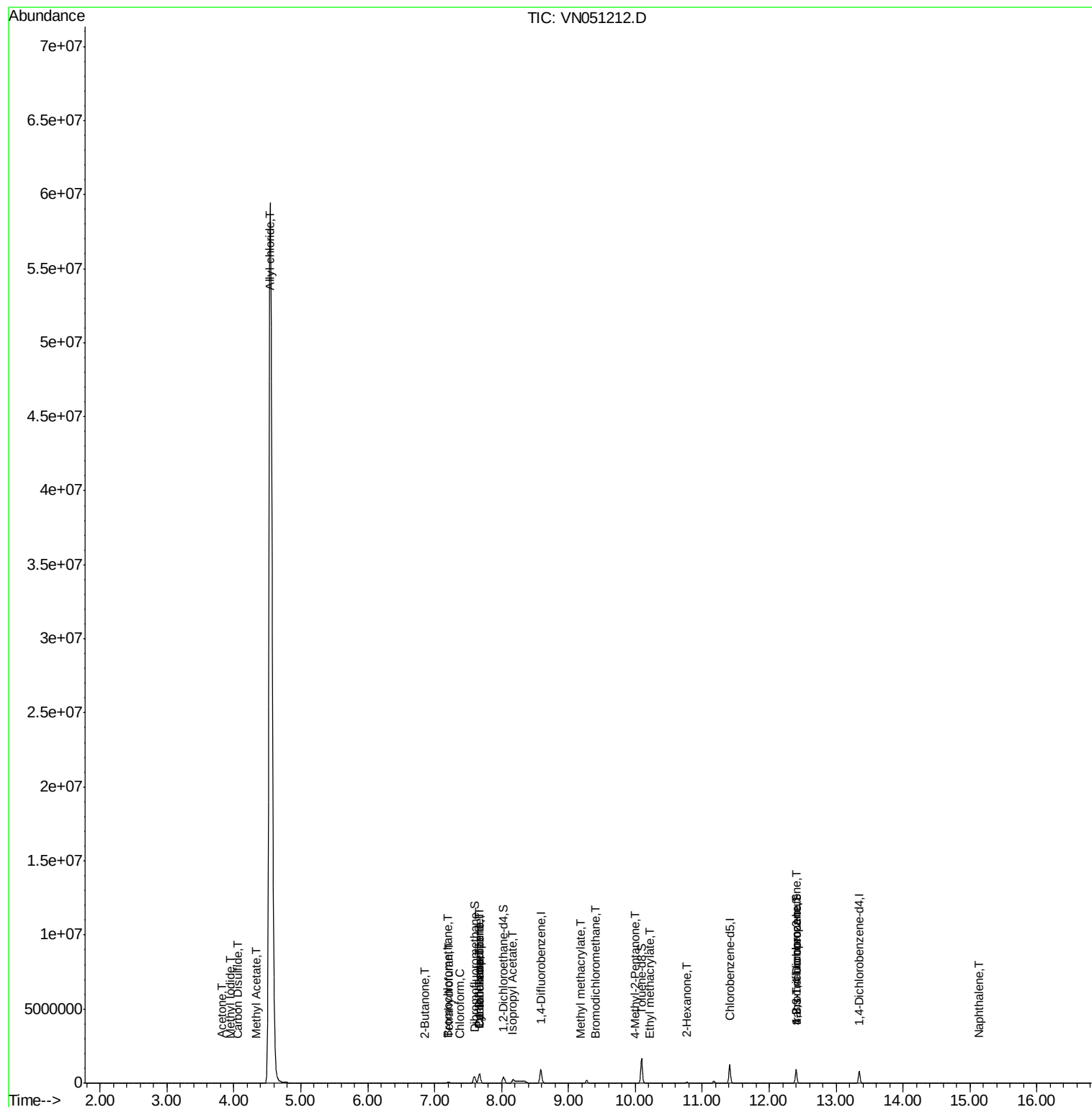
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.06	50	3099	Below Cal		99
5) Bromomethane	2.57	94	2035	Below Cal		97
10) Methyl Iodide	3.94	142	67	5.64	ug/l #	44
14) Allyl chloride	4.54	41	1819836	193.75	ug/l #	27
16) Acetone	3.82	43	44921	22.95	ug/l	97
17) Carbon Disulfide	4.05	76	1603	0.20	ug/l #	76
18) Methyl Acetate	4.34	43	14340	2.78	ug/l	98
25) 2-Butanone	6.85	43	8417	3.33	ug/l	100
28) Bromochloromethane	7.20	49	36160	6.87	ug/l	98
29) Tetrahydrofuran	7.22	42	1597	1.01	ug/l #	65
30) Chloroform	7.37	83	13358	1.14	ug/l	95
31) Cyclohexane	7.66	56	9788	0.70	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	37505	3.72	ug/l #	47
38) Carbon Tetrachloride	7.67	117	50621	5.10	ug/l #	16
43) Isopropyl Acetate	8.17	43	295692	28.68	ug/l #	79
47) Bromodichloromethane	9.40	83	3761	0.39	ug/l	98
48) Methyl methacrylate	9.18	41	6517	1.30	ug/l #	16
51) 4-Methyl-2-Pentanone	9.99	43	3530	0.62	ug/l #	80
56) Ethyl methacrylate	10.23	69	1745	2.64	ug/l #	46
59) 2-Hexanone	10.77	43	12994	3.36	ug/l #	56
76) 1,2,3-Trichloropropane	12.40	75	151074	39.47	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	151074	117.13	ug/l #	15
90) Hexachloroethane	13.89	117	350	Below Cal	#	2
95) Naphthalene	15.13	128	13717	6.67	ug/l	98

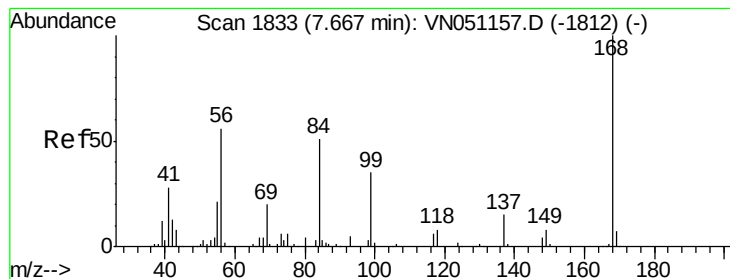
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN091418\
Data File : VN051212.D
Acq On : 15 Sep 2018 1:01
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Quant Title : SW846 8260
QLast Update : Tue Sep 11 02:27:09 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.00 min

Lab File: VN051212.D

Acq: 15 Sep 2018 1:01

Instrument :

MSVOA_N

ClientSampled :

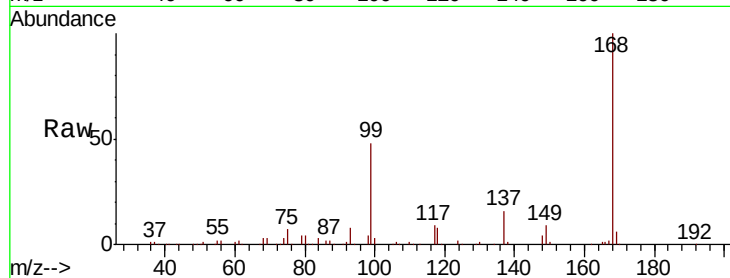
SP-PIT-4

Tot Ion:168 Resp: 577943

Ion Ratio Lower Upper

168 100

99 48.1 38.3 57.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.67

250000

200000

150000

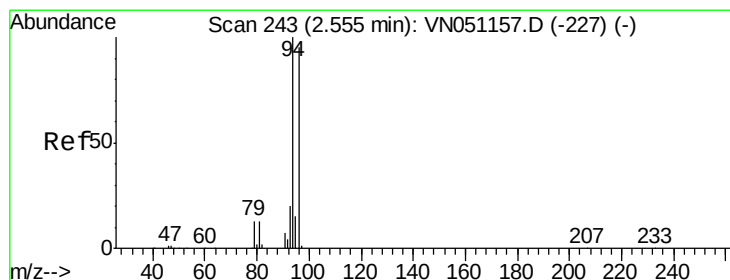
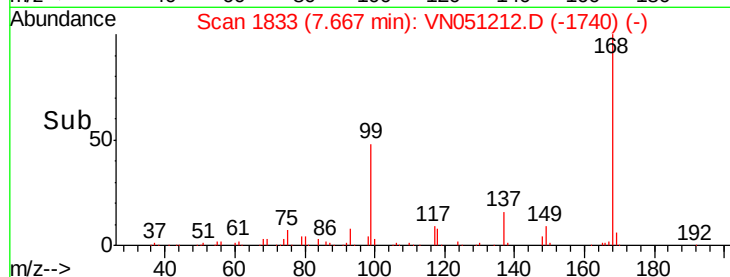
100000

50000

0

7.60 7.70 7.80

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 2.57 min Scan# 249

Delta R.T. 0.01 min

Lab File: VN051212.D

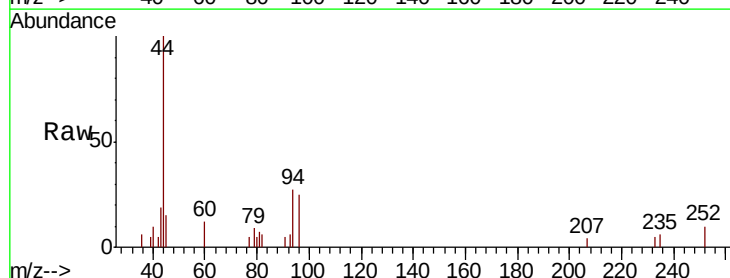
Acq: 15 Sep 2018 1:01

Tgt Ion: 94 Resp: 2035

Ion Ratio Lower Upper

94 100

96 92.2 75.9 113.9



Abundance Ion 93.90 (93.60 to 94.60): VN

Ion 95.90 (95.60 to 96.60): VN

2.57

1000

800

600

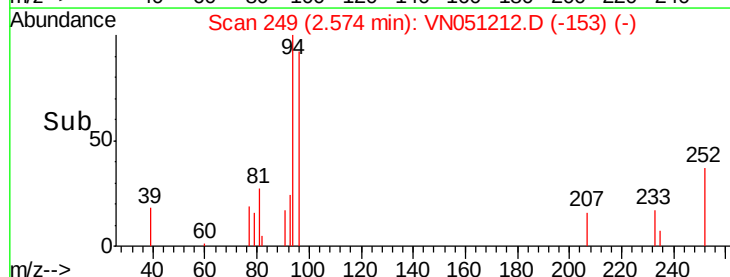
400

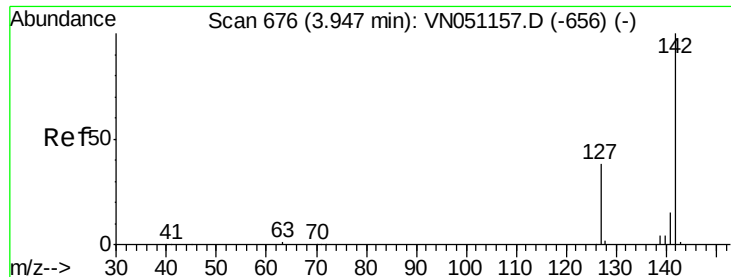
200

0

2.55 2.60

Time-->

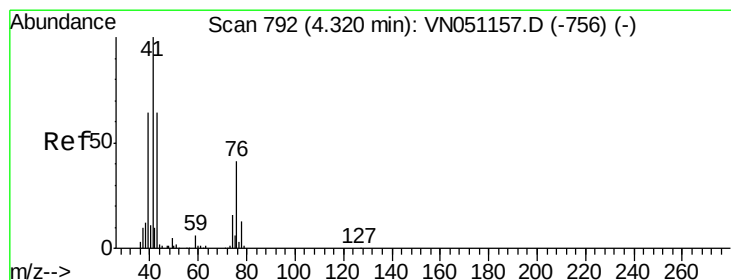
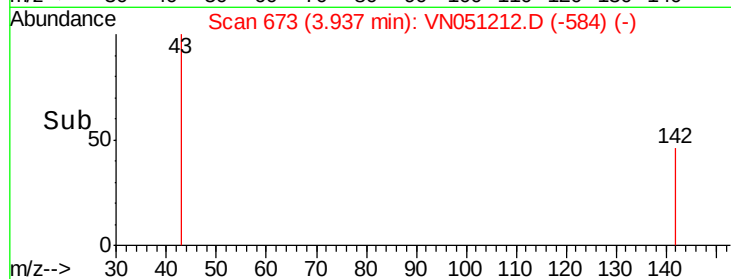
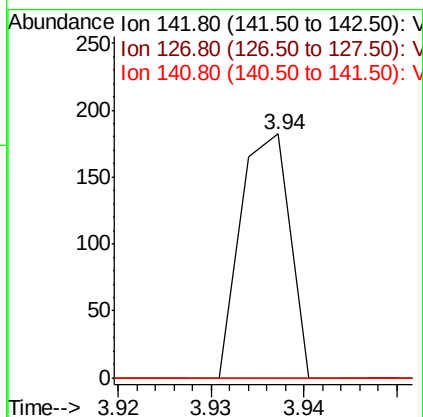
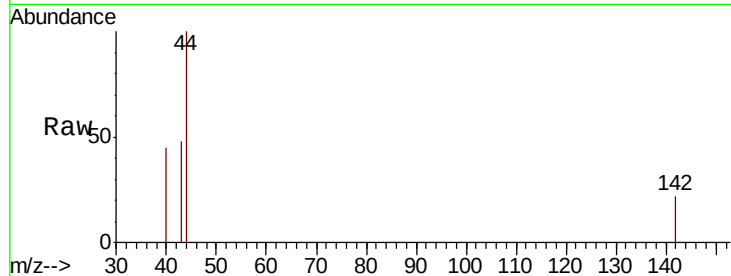




#10
Methvl Iodide
Concen: 5.64 ug/l
RT: 3.94 min Scan# 673
Delta R.T. -0.01 min
Lab File: VN051212.D
Acq: 15 Sep 2018 1:01

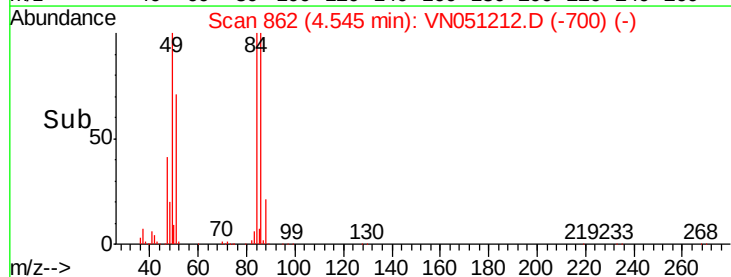
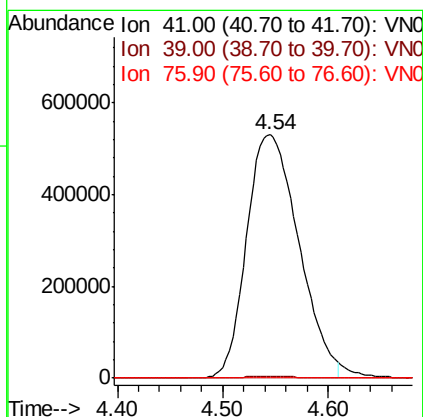
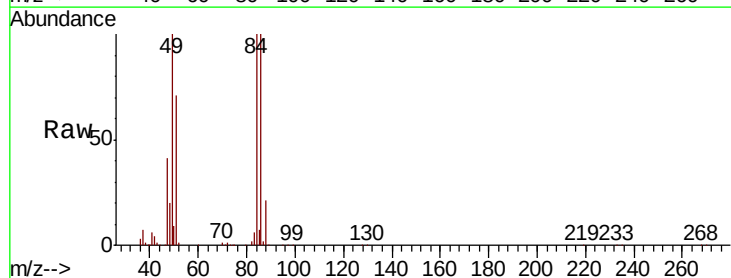
Instrument :
MSVOA_N
ClientSampled :
SP-PIT-4

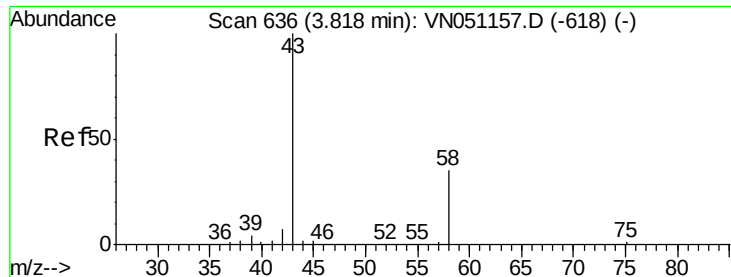
Tot Ion:142 Resp: 67
Ion Ratio Lower Upper
142 100
127 0.0 31.0 46.4#
141 0.0 11.3 16.9#



#14
Allyl chloride
Concen: 193.75 ug/l
RT: 4.54 min Scan# 862
Delta R.T. 0.22 min
Lab File: VN051212.D
Acq: 15 Sep 2018 1:01

Tgt Ion: 41 Resp: 1819836
Ion Ratio Lower Upper
41 100
39 0.7 48.8 73.2#
76 0.0 30.6 45.8#





#16

Acetone

Concen: 22.95 ug/l

RT: 3.82 min Scan# 638

Delta R.T. 0.01 min

Lab File: VN051212.D

Acq: 15 Sep 2018 1:01

Instrument :

MSVOA_N

ClientSampled :

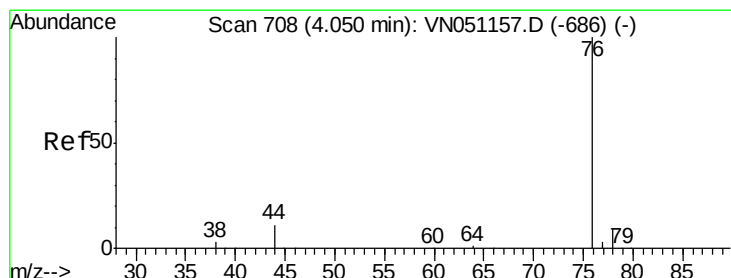
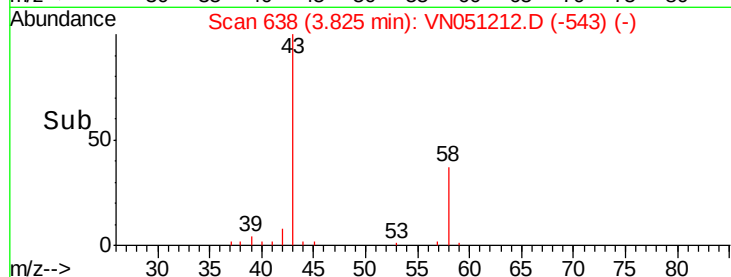
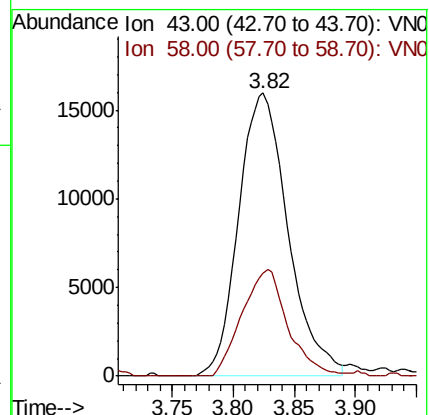
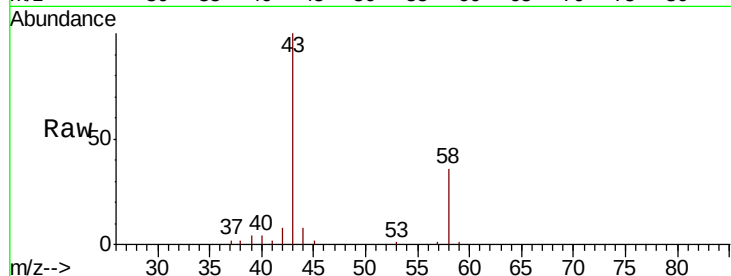
SP-PIT-4

Tot Ion: 43 Resp: 44921

Ion Ratio Lower Upper

43 100

58 36.4 27.8 41.6



#17

Carbon Disulfide

Concen: 0.20 ug/l

RT: 4.05 min Scan# 709

Delta R.T. 0.00 min

Lab File: VN051212.D

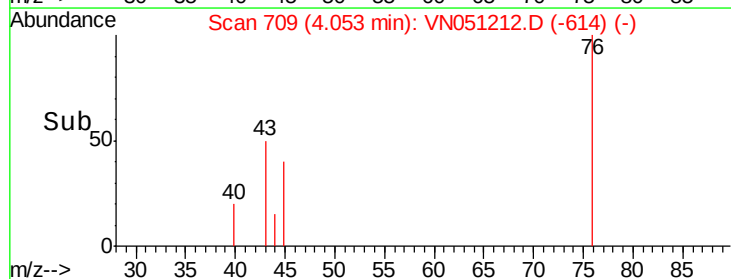
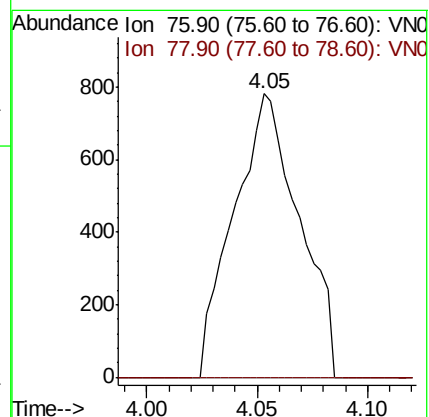
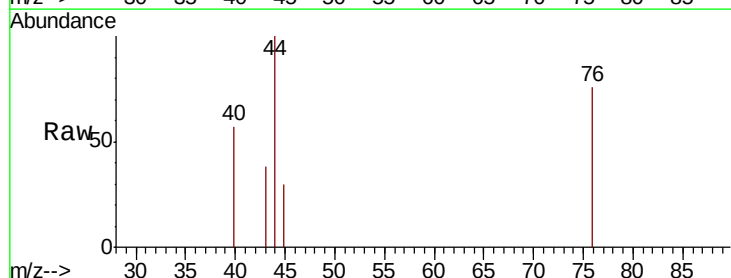
Acq: 15 Sep 2018 1:01

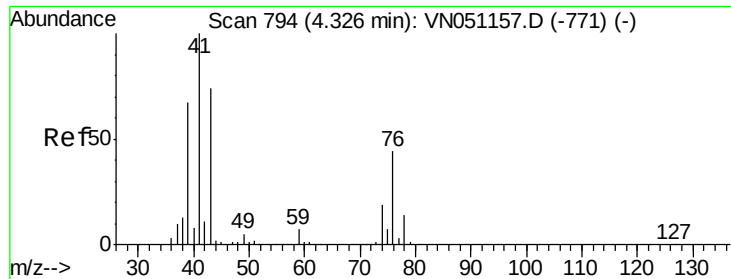
Tgt Ion: 76 Resp: 1603

Ion Ratio Lower Upper

76 100

78 0.0 7.0 10.6#

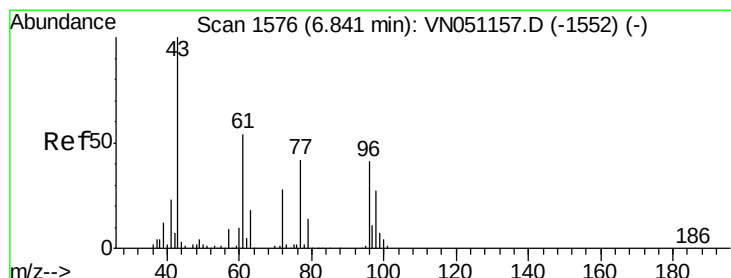
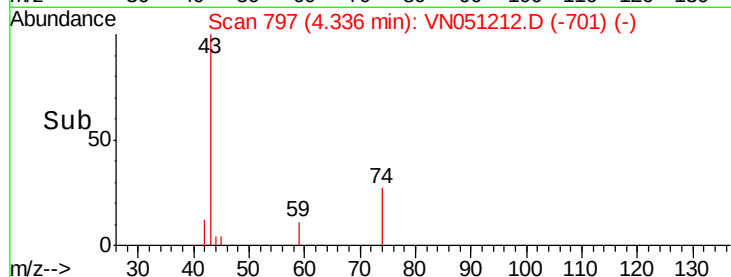
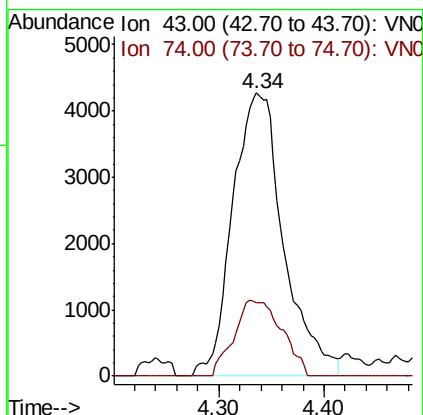
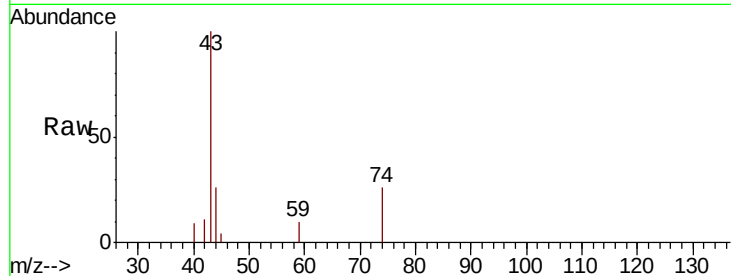




#18
Methyl Acetate
Concen: 2.78 ug/l
RT: 4.34 min Scan# 797
Delta R.T. 0.01 min
Lab File: VN051212.D
Acq: 15 Sep 2018 1:01

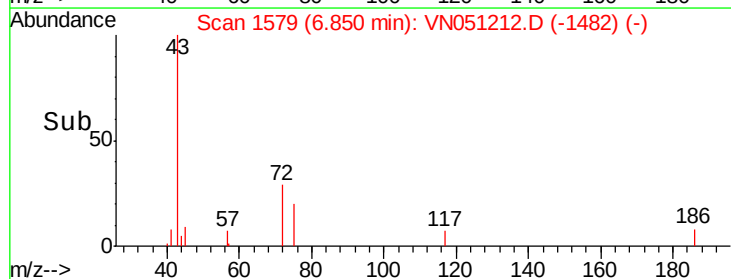
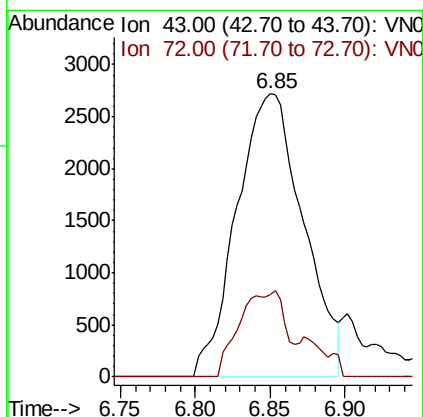
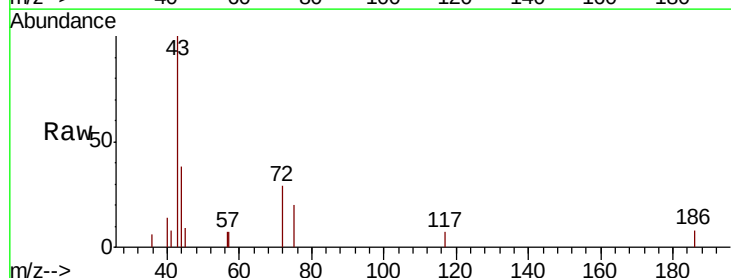
Instrument :
MSVOA_N
ClientSampled :
SP-PIT-4

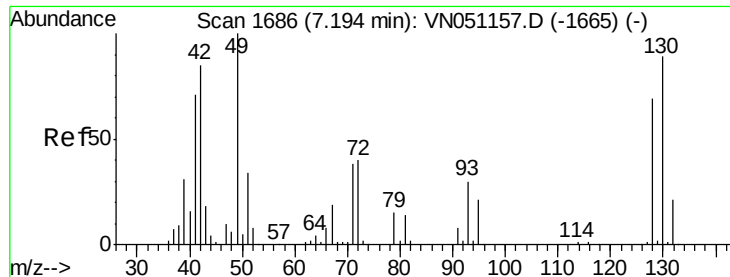
Tot Ion: 43 Resp: 14340
Ion Ratio Lower Upper
43 100
74 25.1 20.7 31.1



#25
2-Butanone
Concen: 3.33 ug/l
RT: 6.85 min Scan# 1579
Delta R.T. 0.01 min
Lab File: VN051212.D
Acq: 15 Sep 2018 1:01

Tgt Ion: 43 Resp: 8417
Ion Ratio Lower Upper
43 100
72 29.0 23.0 34.6

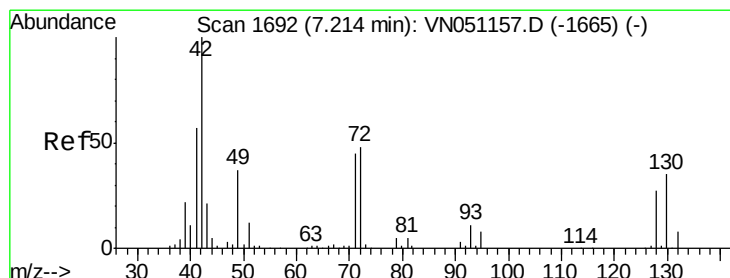
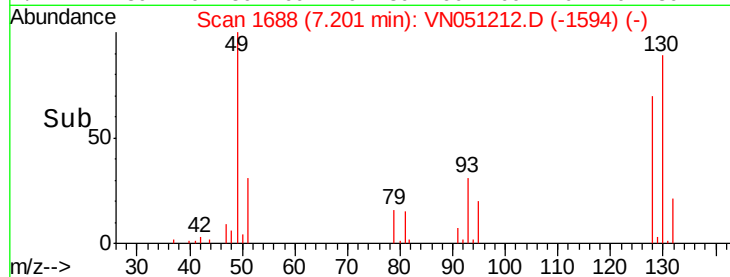
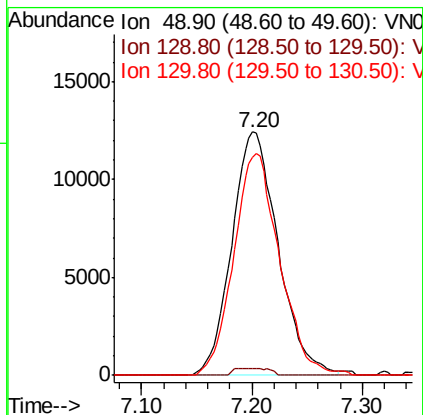
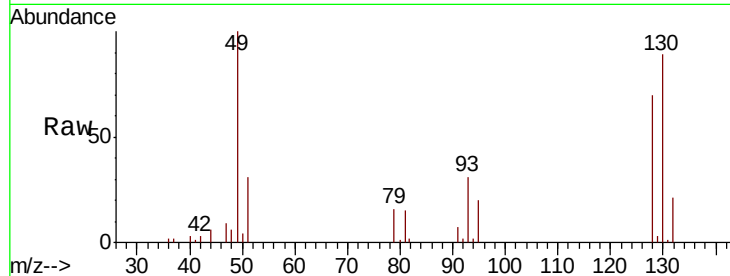




#28
Bromochloromethane
Concen: 6.87 ug/l
RT: 7.20 min Scan# 1688
Delta R.T. 0.00 min
Lab File: VN051212.D
Acq: 15 Sep 2018 1:01

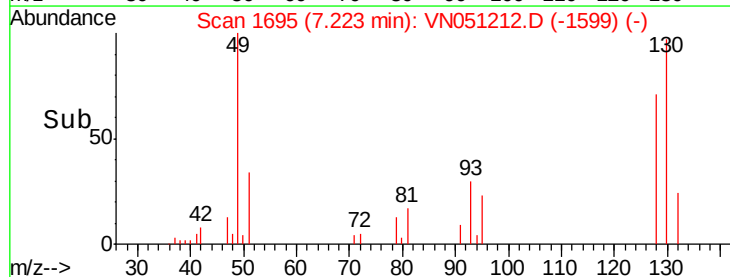
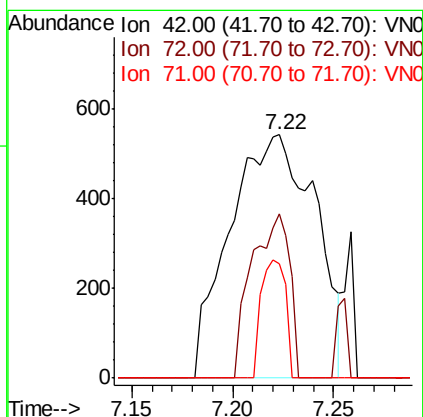
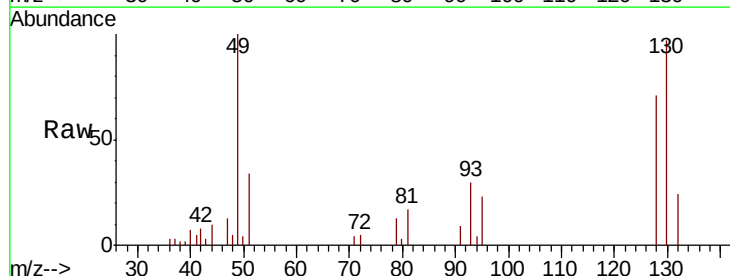
Instrument :
MSVOA_N
ClientSampled :
SP-PIT-4

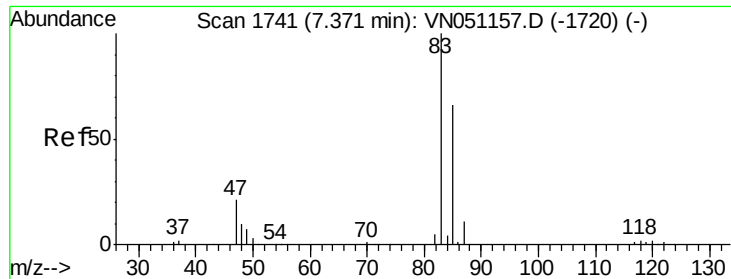
Tot Ion: 49 Resp: 36160
Ion Ratio Lower Upper
49 100
129 2.2 0.0 4.4
130 90.2 70.7 106.1



#29
Tetrahydrofuran
Concen: 1.01 ug/l
RT: 7.22 min Scan# 1695
Delta R.T. 0.01 min
Lab File: VN051212.D
Acq: 15 Sep 2018 1:01

Tgt Ion: 42 Resp: 1597
Ion Ratio Lower Upper
42 100
72 30.2 37.4 56.0#
71 14.0 34.7 52.1#

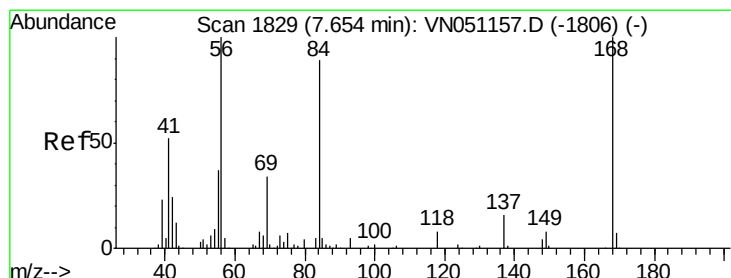
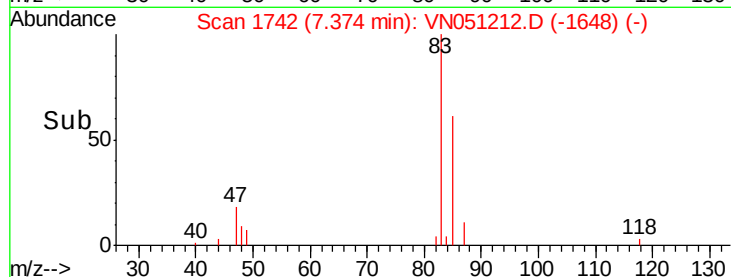
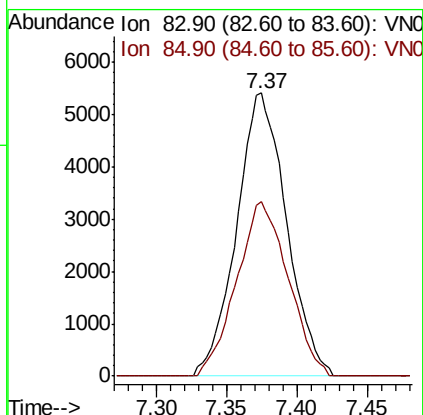
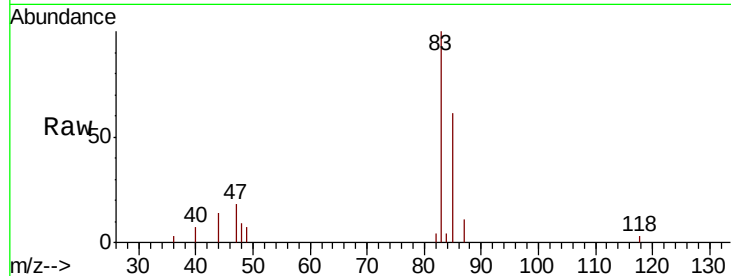




#30
Chloroform
Concen: 1.14 ug/l
RT: 7.37 min Scan# 1742
Delta R.T. 0.00 min
Lab File: VN051212.D
Acq: 15 Sep 2018 1:01

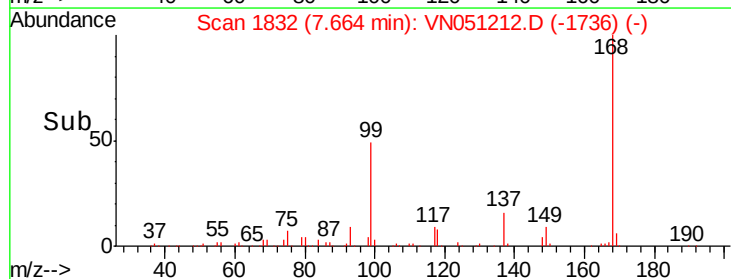
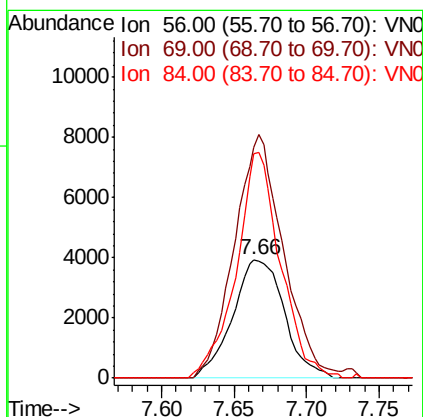
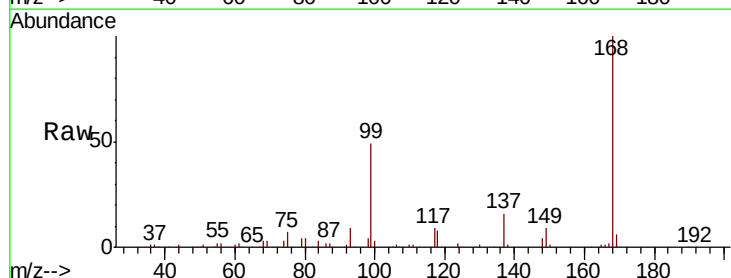
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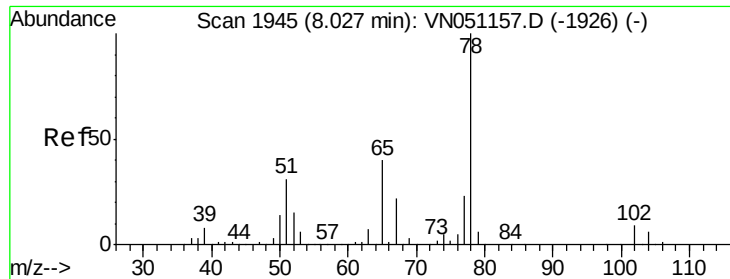
Tot Ion: 83 Resp: 13358
Ion Ratio Lower Upper
83 100
85 61.5 52.6 79.0



#31
Cyclohexane
Concen: 0.70 ug/l
RT: 7.66 min Scan# 1832
Delta R.T. 0.01 min
Lab File: VN051212.D
Acq: 15 Sep 2018 1:01

Tgt Ion: 56 Resp: 9788
Ion Ratio Lower Upper
56 100
69 194.7 26.3 39.5#
84 188.8 69.4 104.0#

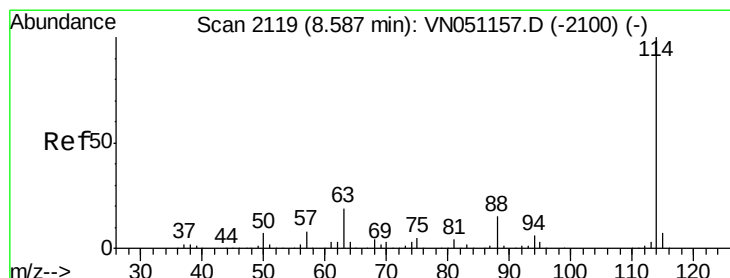
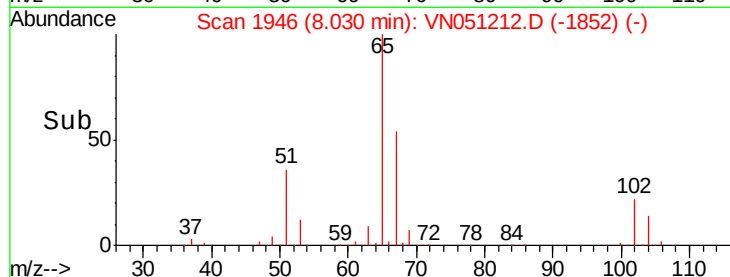
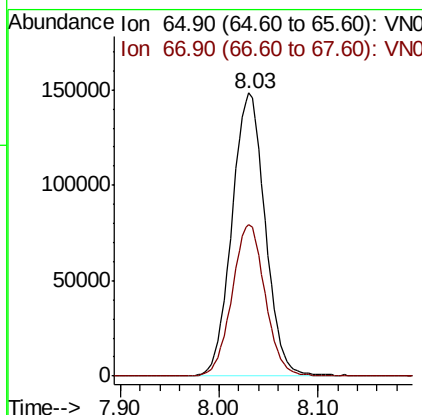
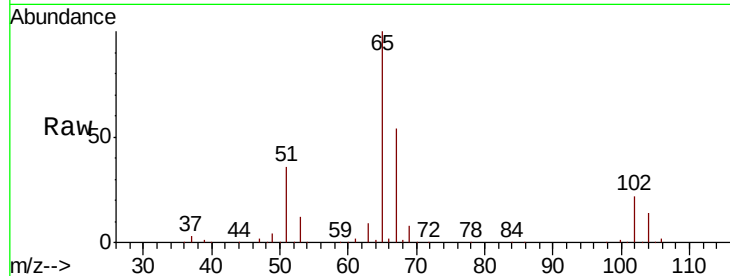




#33
 1,2-Dichloroethane-d4
 Concen: 54.10 ug/l
 RT: 8.03 min Scan# 1946
 Delta R.T. 0.00 min
 Lab File: VN051212.D
 Acq: 15 Sep 2018 1:01

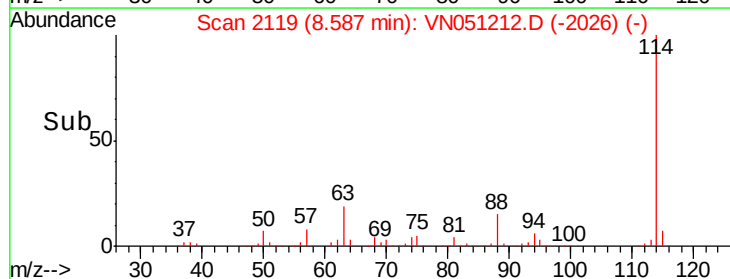
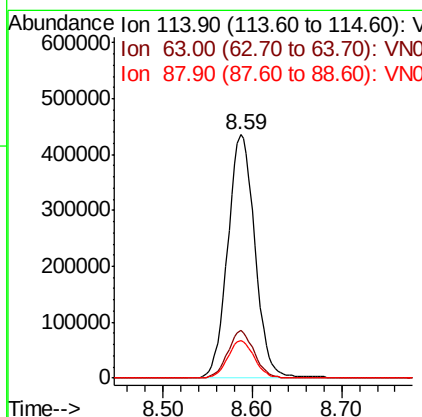
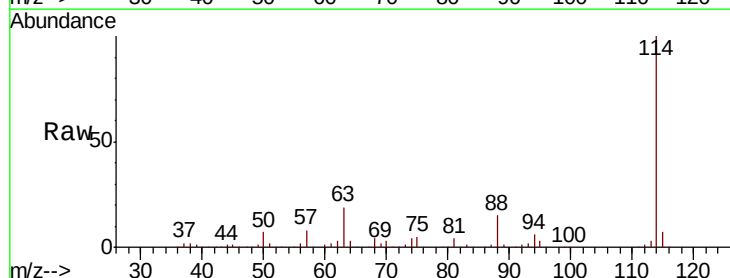
Instrument :
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 ClientSampleId :
 SP-PIT-4

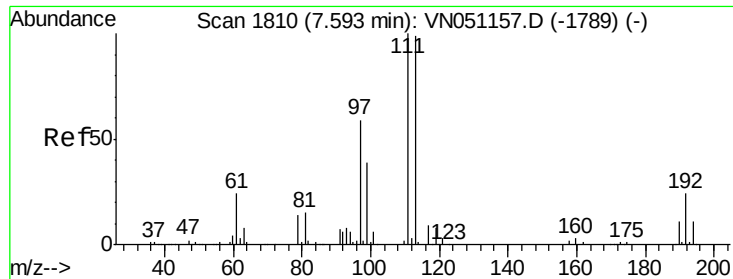
Tot Ion: 65 Resp: 347925
 Ion Ratio Lower Upper
 65 100
 67 53.5 0.0 112.0



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. -0.00 min
 Lab File: VN051212.D
 Acq: 15 Sep 2018 1:01

Tgt Ion: 114 Resp: 919062
 Ion Ratio Lower Upper
 114 100
 63 19.4 0.0 37.8
 88 15.4 0.0 30.8

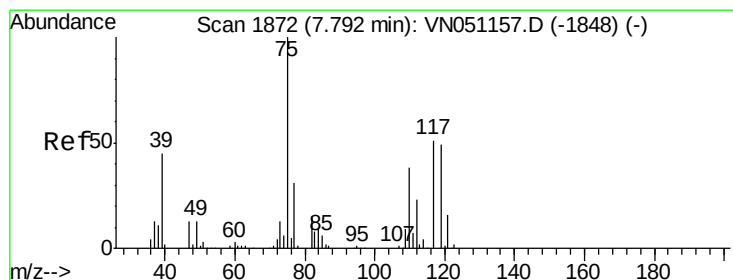
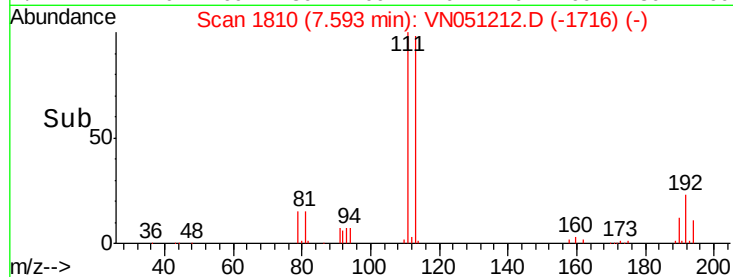
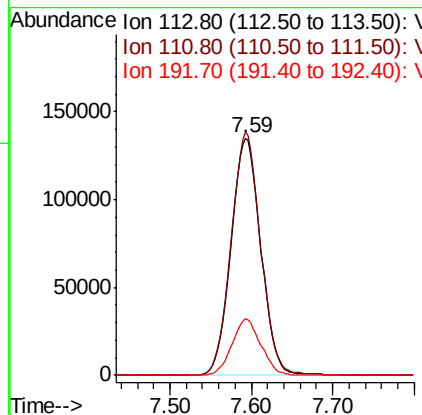
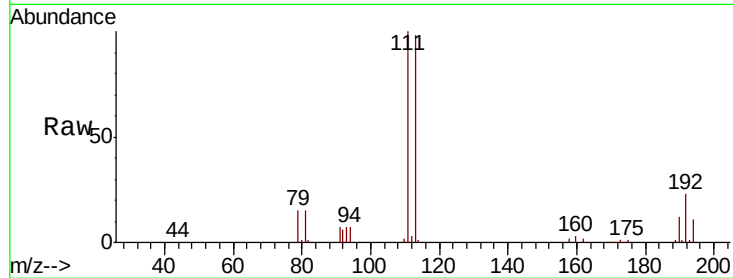




#35
 Dibromofluoromethane
 Concen: 49.84 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN051212.D
 Acq: 15 Sep 2018 1:01

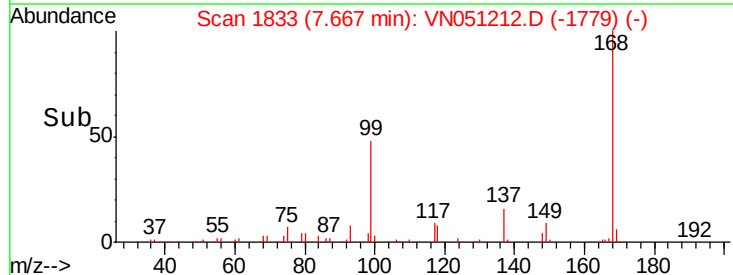
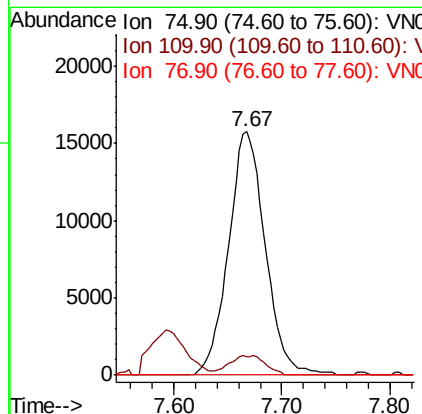
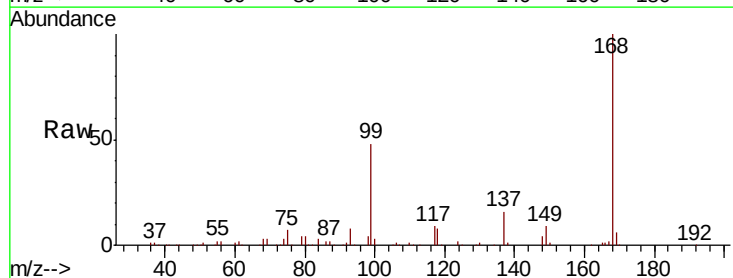
Instrument :
 MSVOA_N
 ClientSampled :
 SP-PIT-4

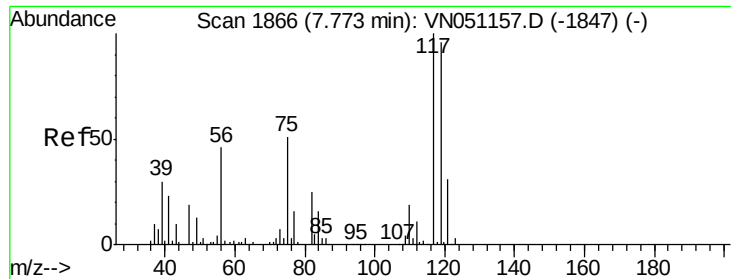
Tot Ion:113 Resp: 344203
 Ion Ratio Lower Upper
 113 100
 111 102.2 83.0 124.6
 192 23.1 18.7 28.1



#36
 1,1-Dichloropropene
 Concen: 3.72 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.13 min
 Lab File: VN051212.D
 Acq: 15 Sep 2018 1:01

Tgt Ion: 75 Resp: 37505
 Ion Ratio Lower Upper
 75 100
 110 8.0 18.6 55.8#
 77 0.0 25.2 37.8#

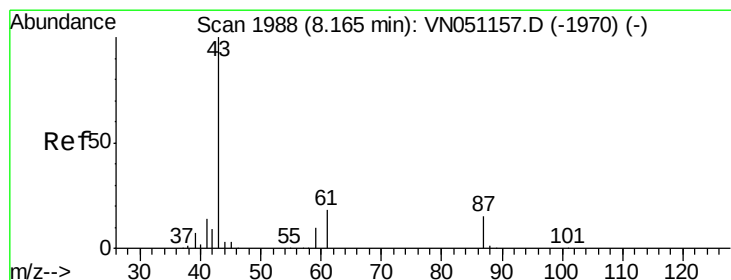
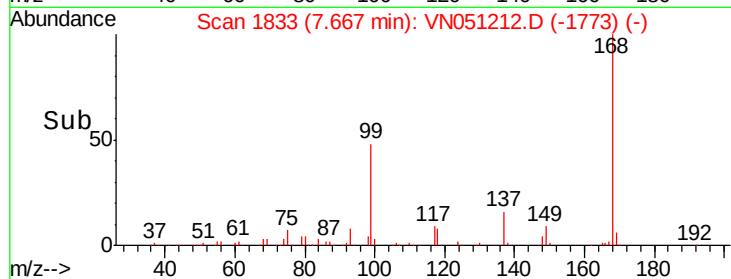
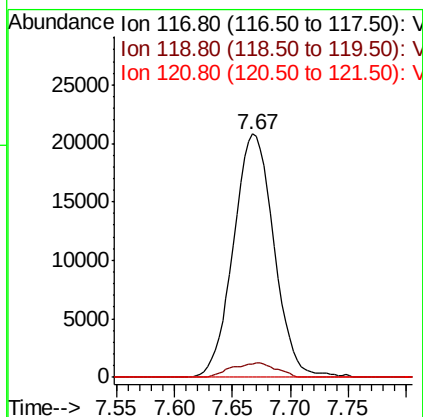
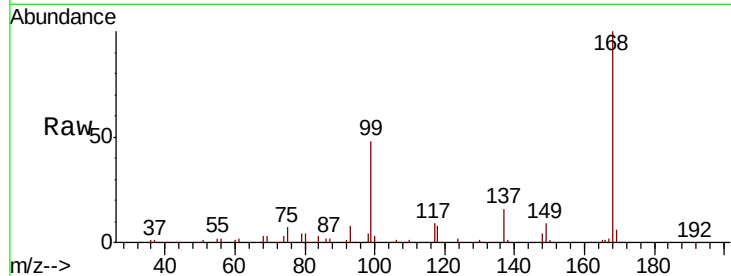




#38
Carbon Tetrachloride
Concen: 5.10 ug/l
RT: 7.67 min Scan# 1833
Delta R.T. -0.11 min
Lab File: VN051212.D
Acq: 15 Sep 2018 1:01

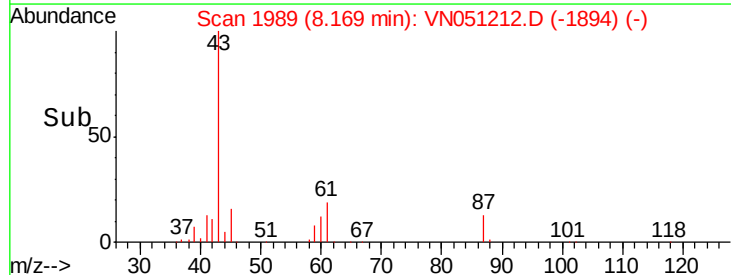
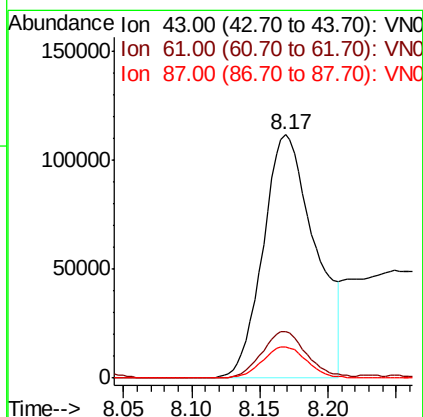
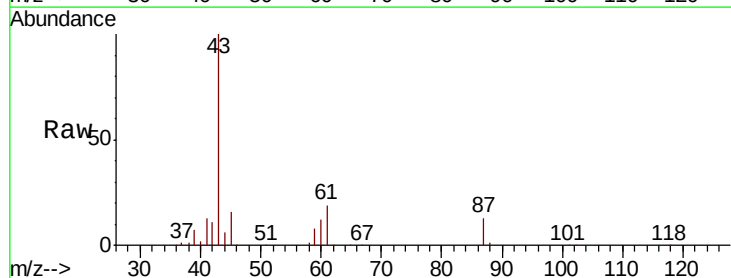
Instrument :
MSVOA_N
ClientSampled :
SP-PIT-4

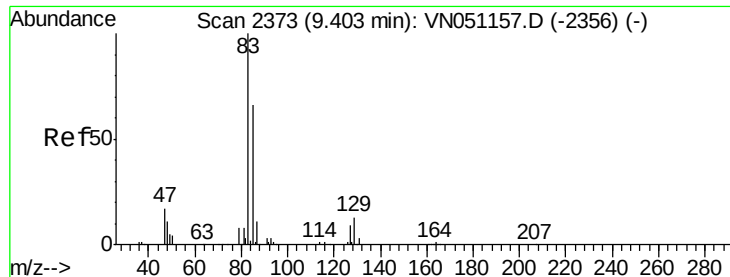
Tot Ion:117 Resp: 50621
Ion Ratio Lower Upper
117 100
119 5.7 76.8 115.2#
121 0.0 24.6 36.8#



#43
Isopropyl Acetate
Concen: 28.68 ug/l
RT: 8.17 min Scan# 1989
Delta R.T. 0.01 min
Lab File: VN051212.D
Acq: 15 Sep 2018 1:01

Tgt Ion: 43 Resp: 295692
Ion Ratio Lower Upper
43 100
61 16.5 25.0 37.6#
87 11.1 11.8 17.8#





#47

Bromodichloromethane

Concen: 0.39 ug/l

RT: 9.40 min Scan# 2373

Delta R.T. -0.00 min

Lab File: VN051212.D

Acq: 15 Sep 2018 1:01

Instrument :

MSVOA_N

ClientSampled :

SP-PIT-4

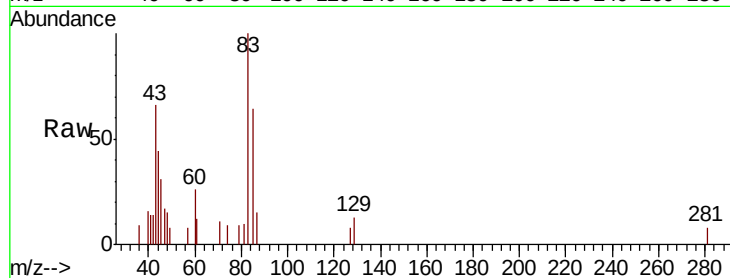
Tot Ion: 83 Resp: 3761

Ion Ratio Lower Upper

83 100

85 64.1 52.3 78.5

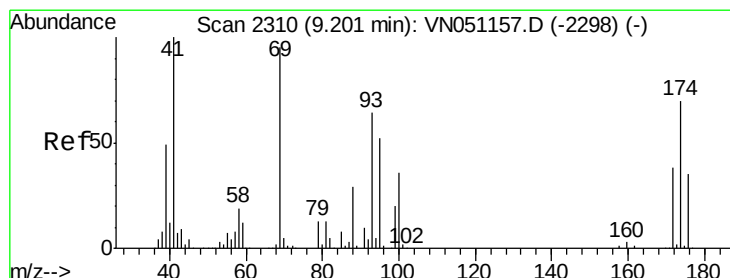
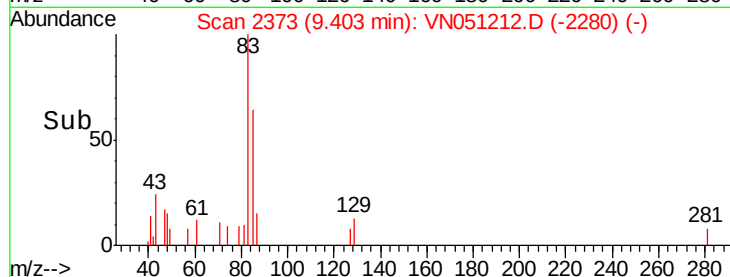
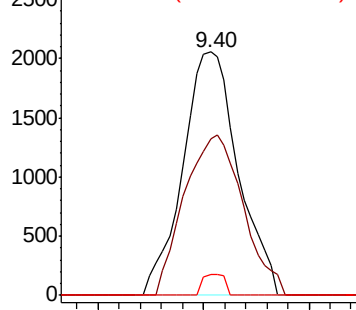
127 8.4 7.5 11.3



Abundance Ion 82.90 (82.60 to 83.60): VN051157.D (-2356) (-)

Ion 84.90 (84.60 to 85.60): VN051157.D (-2356) (-)

Ion 126.80 (126.50 to 127.50): VN051157.D (-2356) (-)



#48

Methyl methacrylate

Concen: 1.30 ug/l

RT: 9.18 min Scan# 2303

Delta R.T. -0.02 min

Lab File: VN051212.D

Acq: 15 Sep 2018 1:01

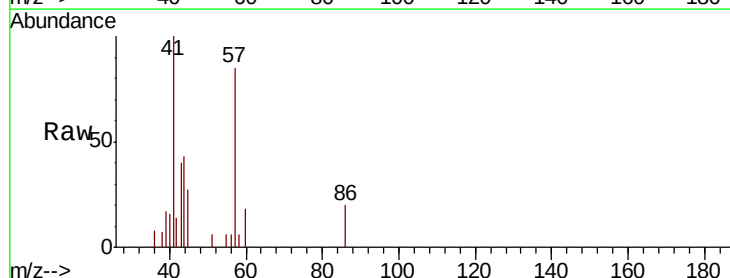
Tgt Ion: 41 Resp: 6517

Ion Ratio Lower Upper

41 100

69 0.0 77.7 116.5#

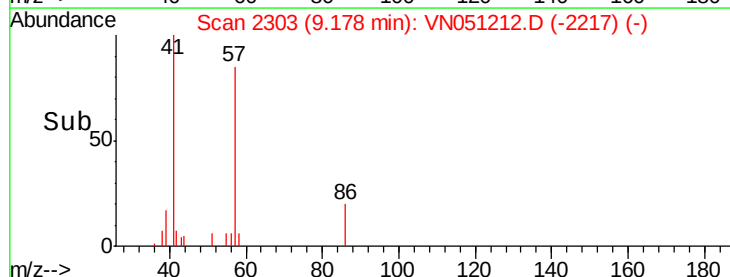
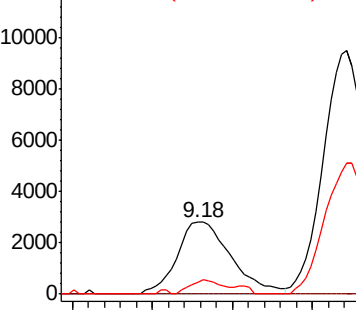
39 11.7 41.6 62.4#

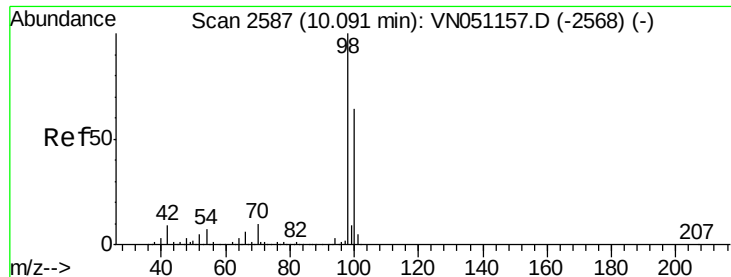


Abundance Ion 41.00 (40.70 to 41.70): VN051157.D (-2298) (-)

Ion 69.00 (68.70 to 69.70): VN051157.D (-2298) (-)

Ion 39.00 (38.70 to 39.70): VN051157.D (-2298) (-)





#50

Toluene-d8

Concen: 47.09 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN051212.D

Acq: 15 Sep 2018 1:01

Instrument :

MSVOA_N

ClientSampled :

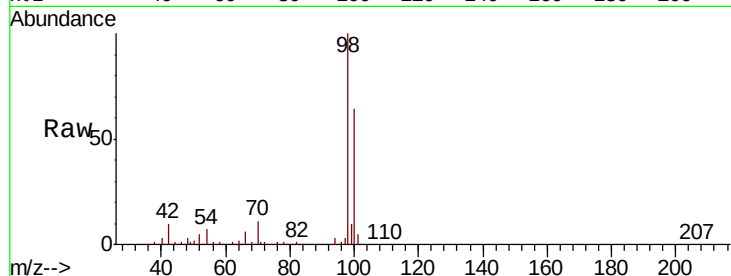
SP-PIT-4

Tot Ion: 98 Resp: 1233932

Ion Ratio Lower Upper

98 100

100 64.2 52.0 78.0



Abundance Ion 98.00 (97.70 to 98.70): VN051157.D (-2568) (-)

Ion 100.00 (99.70 to 100.70): VN051157.D (-2568) (-)

10.09

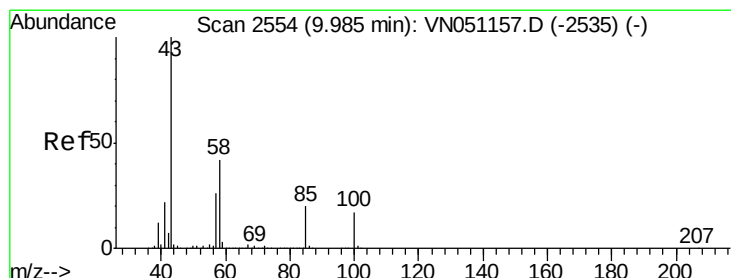
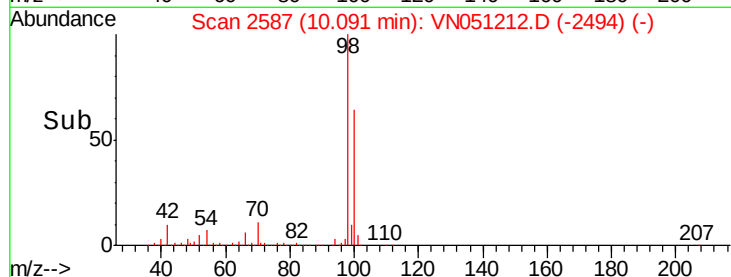
600000

400000

200000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 0.62 ug/l

RT: 9.99 min Scan# 2555

Delta R.T. 0.00 min

Lab File: VN051212.D

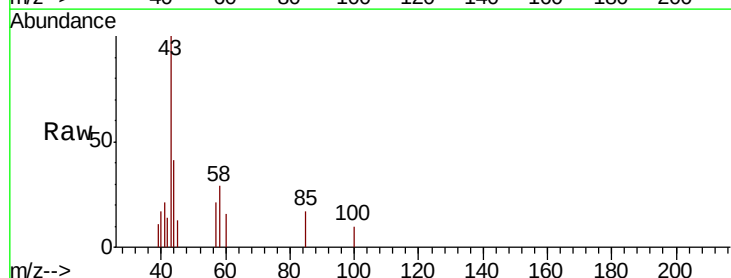
Acq: 15 Sep 2018 1:01

Tgt Ion: 43 Resp: 3530

Ion Ratio Lower Upper

43 100

58 29.5 33.5 50.3#



Abundance Ion 43.00 (42.70 to 43.70): VN051157.D (-2535) (-)

Ion 58.00 (57.70 to 58.70): VN051157.D (-2535) (-)

9.99

5000

4000

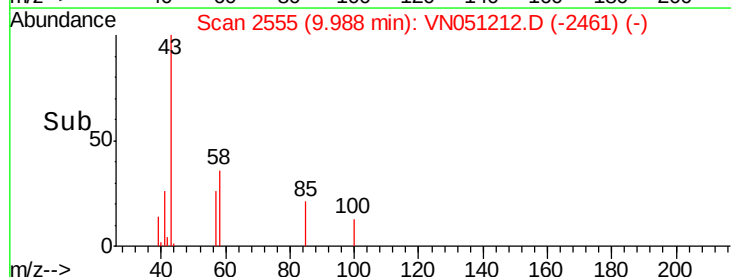
3000

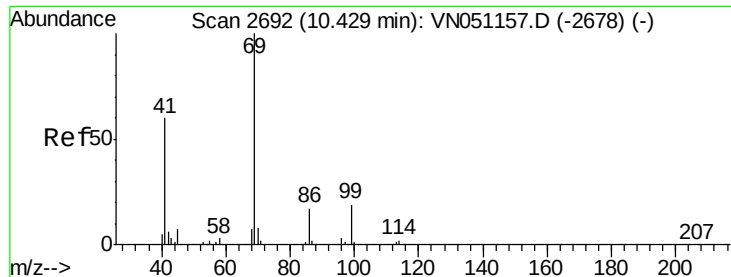
2000

1000

0

Time-->





#56

Ethyl methacrylate

Concen: 2.64 ug/l

RT: 10.23 min Scan# 2629

Delta R.T. -0.20 min

Lab File: VN051212.D

Acq: 15 Sep 2018 1:01

Instrument :

MSVOA_N

ClientSampled :

SP-PIT-4

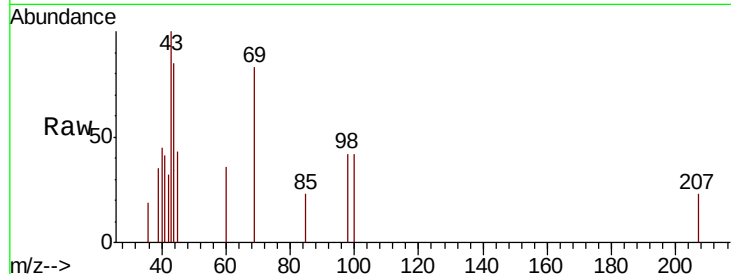
Tot Ion: 69 Resp: 1745

Ion Ratio Lower Upper

69 100

41 6.4 47.8 71.8#

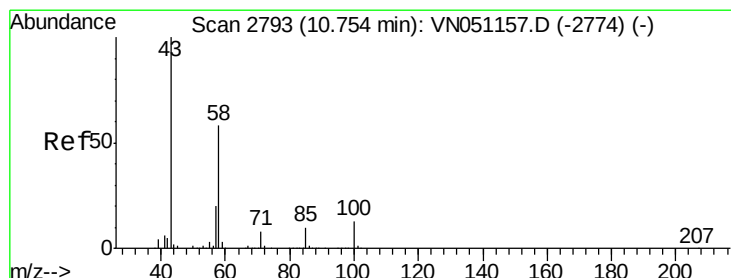
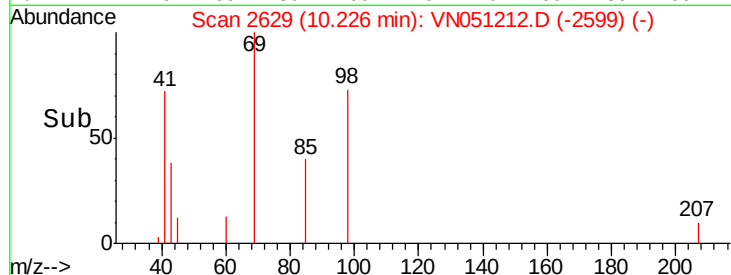
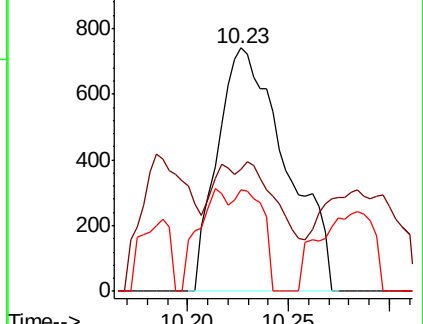
39 18.3 23.0 34.4#



Abundance Ion 69.00 (68.70 to 69.70): VN0

Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0



#59

2-Hexanone

Concen: 3.36 ug/l

RT: 10.77 min Scan# 2797

Delta R.T. 0.02 min

Lab File: VN051212.D

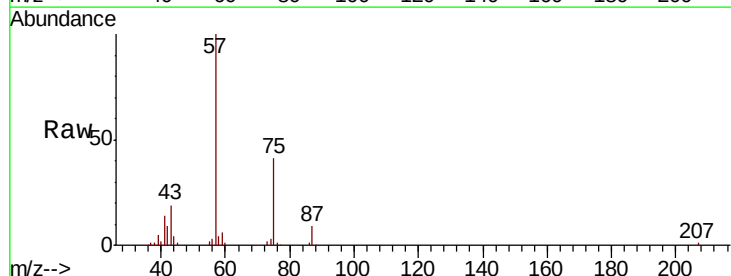
Acq: 15 Sep 2018 1:01

Tgt Ion: 43 Resp: 12994

Ion Ratio Lower Upper

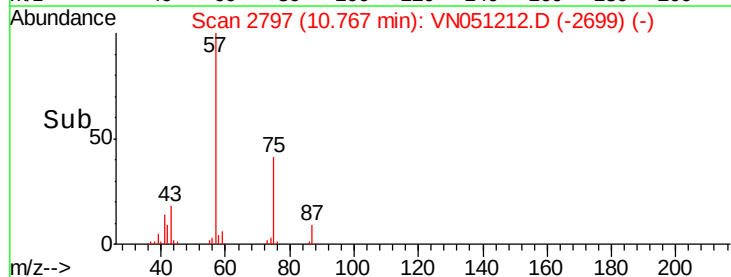
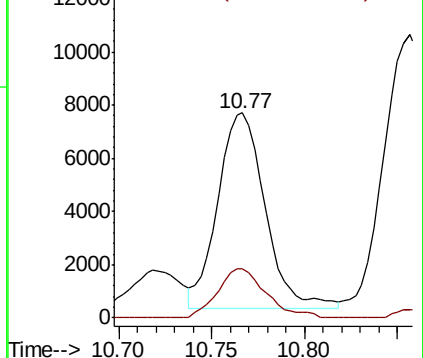
43 100

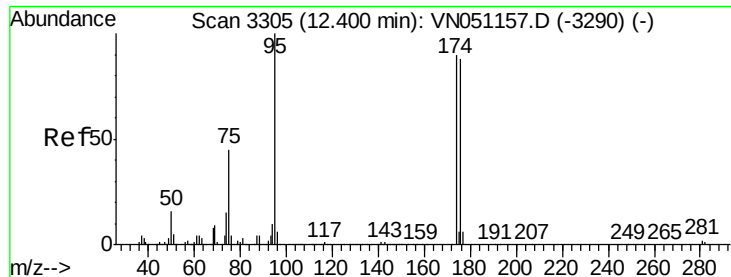
58 25.8 29.3 88.0#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#62

4-Bromofluorobenzene

Concen: 36.77 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN051212.D

Acq: 15 Sep 2018 1:01

Instrument :

MSVOA_N

ClientSampled :

SP-PIT-4

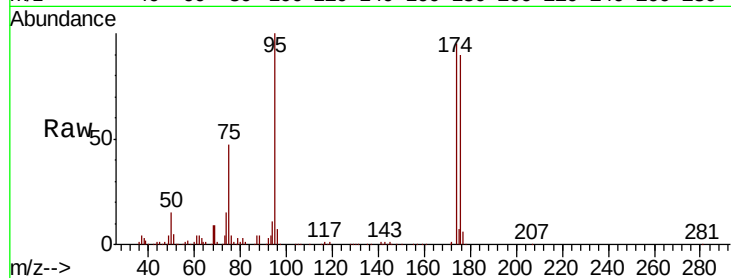
Tot Ion: 95 Resp: 318714

Ion Ratio Lower Upper

95 100

174 94.0 0.0 184.8

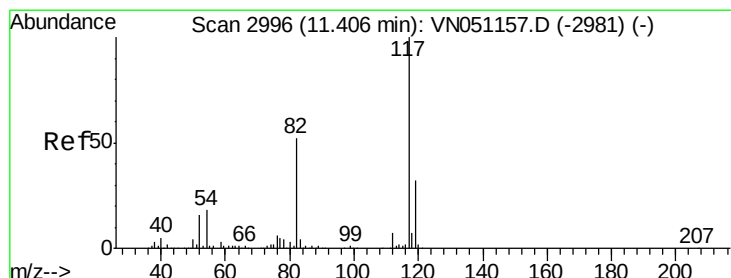
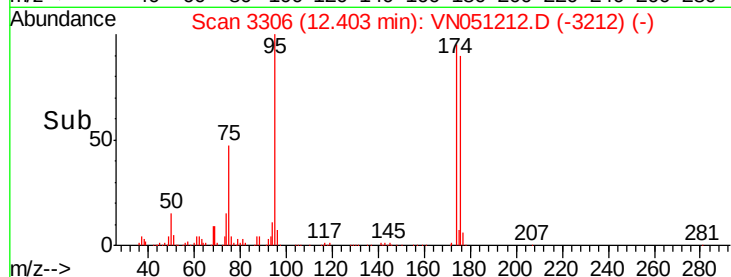
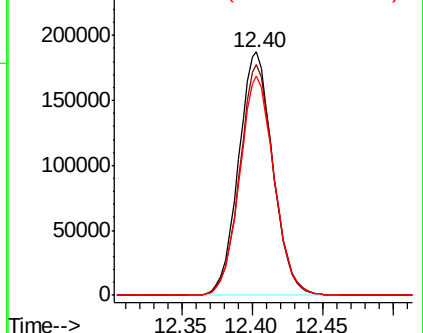
176 90.5 0.0 178.6



Abundance Ion 94.90 (94.60 to 95.60): VN051157.D (-3290) (-)

Ion 173.80 (173.50 to 174.50): VN051157.D (-3290) (-)

Ion 175.80 (175.50 to 176.50): VN051157.D (-3290) (-)



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 11.41 min Scan# 2997

Delta R.T. 0.00 min

Lab File: VN051212.D

Acq: 15 Sep 2018 1:01

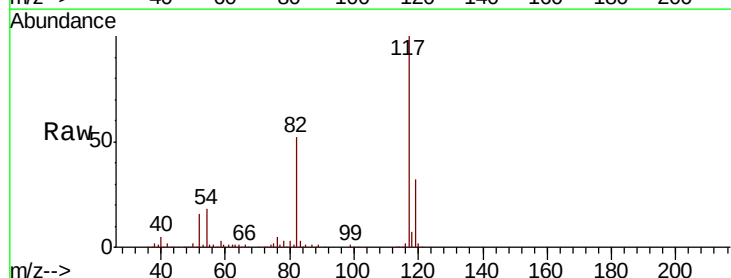
Tgt Ion: 117 Resp: 773593

Ion Ratio Lower Upper

117 100

82 52.3 41.8 62.6

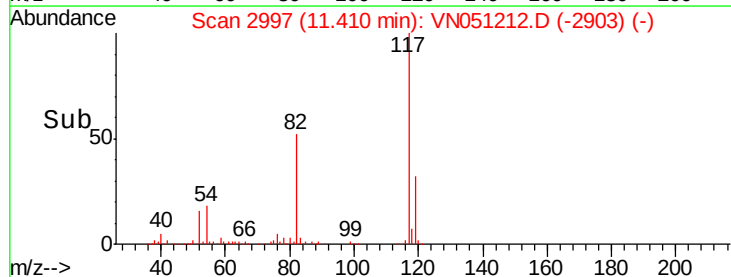
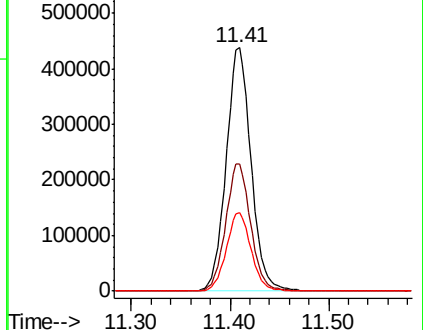
119 32.3 26.2 39.2

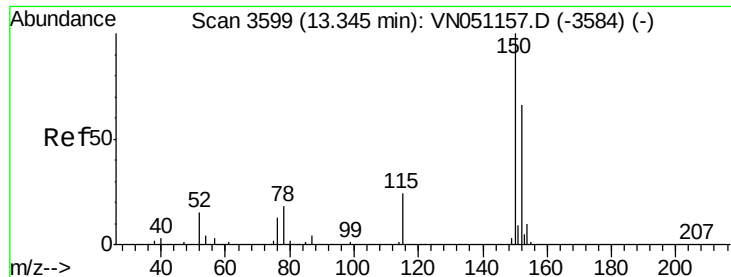


Abundance Ion 116.90 (116.60 to 117.60): VN051157.D (-2981) (-)

Ion 82.00 (81.70 to 82.70): VN051157.D (-2981) (-)

Ion 118.90 (118.60 to 119.60): VN051157.D (-2981) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN051212.D

Acq: 15 Sep 2018 1:01

Instrument :

MSVOA_N

ClientSampled :

SP-PIT-4

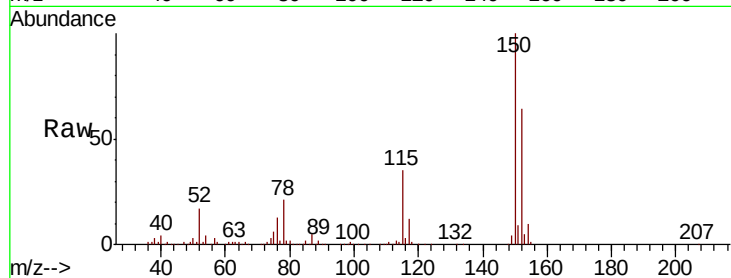
Tot Ion:152 Resp: 244960

Ion Ratio Lower Upper

152 100

115 54.5 28.2 84.7

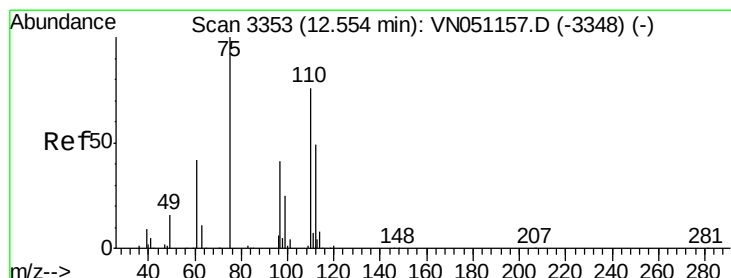
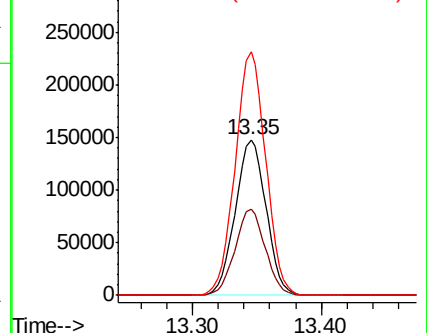
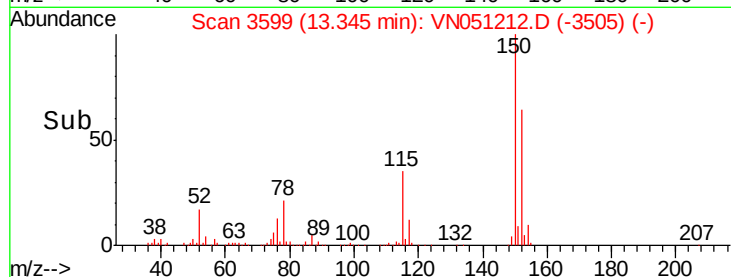
150 155.3 0.0 349.0



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: 39.47 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN051212.D

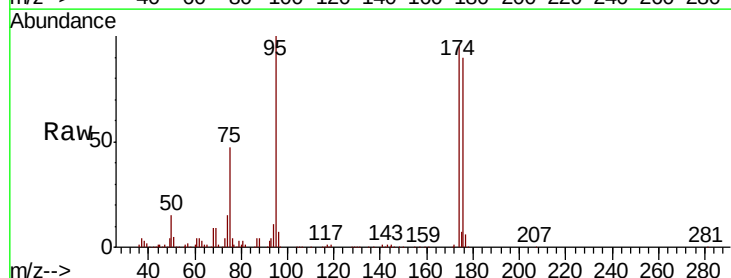
Acq: 15 Sep 2018 1:01

Tgt Ion: 75 Resp: 151074

Ion Ratio Lower Upper

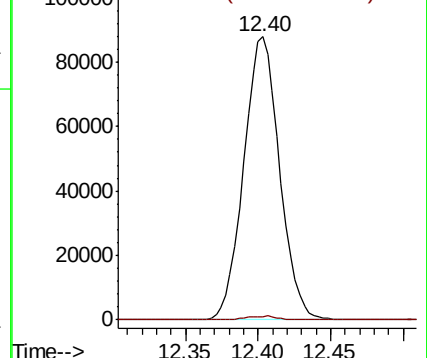
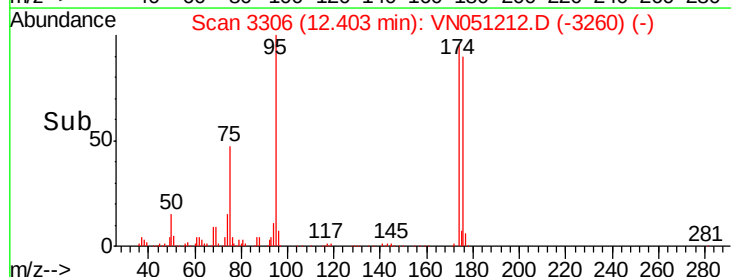
75 100

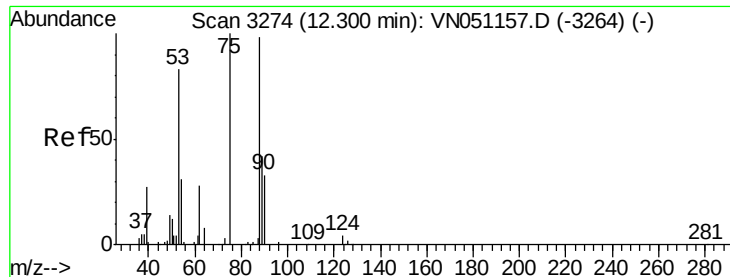
77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0





#81

trans-1,4-Dichloro-2-butene

Concen: 117.13 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN051212.D

Acq: 15 Sep 2018 1:01

Instrument :

MSVOA_N

ClientSampleId :

SP-PIT-4

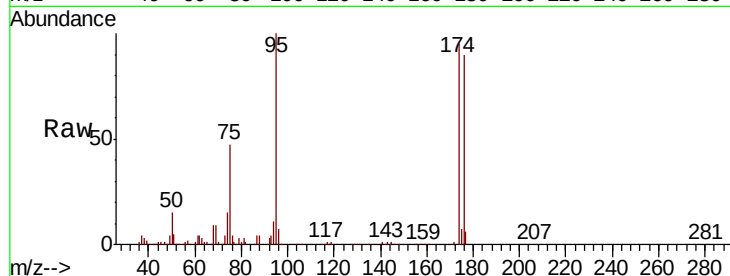
Tot Ion: 75 Resp: 151074

Ion Ratio Lower Upper

75 100

53 0.2 67.8 101.8#

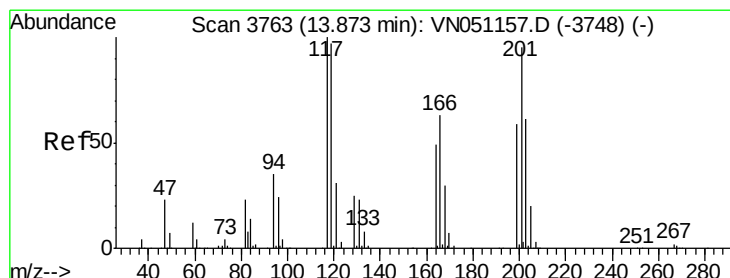
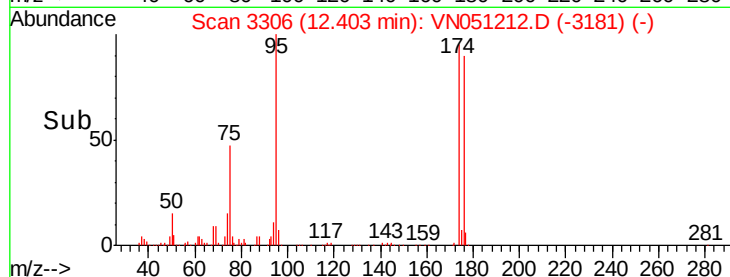
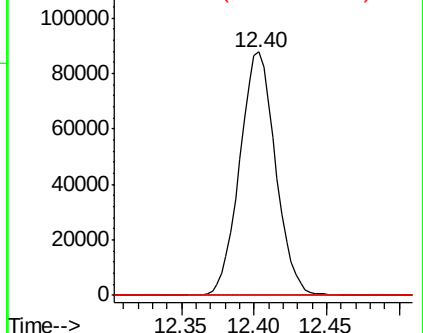
89 0.0 36.0 54.0#



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



#90

Hexachloroethane

Concen: Below Cal

RT: 13.89 min Scan# 3767

Delta R.T. 0.01 min

Lab File: VN051212.D

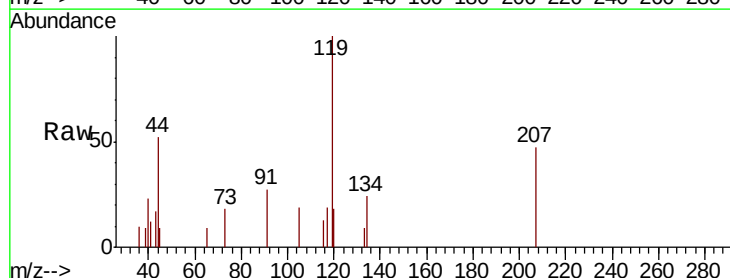
Acq: 15 Sep 2018 1:01

Tgt Ion: 117 Resp: 350

Ion Ratio Lower Upper

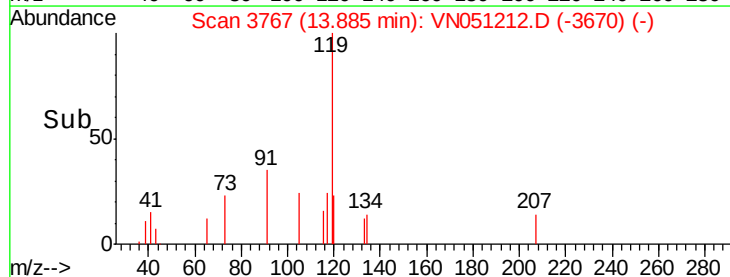
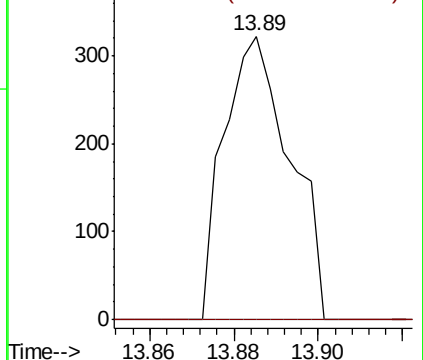
117 100

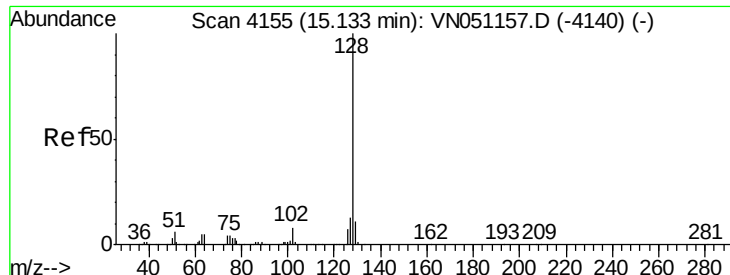
201 0.0 47.3 142.0#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V





#95

Naphthalene

Concen: 6.67 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. -0.00 min

Lab File: VN051212.D

Acq: 15 Sep 2018 1:01

Instrument :

MSVOA_N

ClientSampleId :

SP-PIT-4

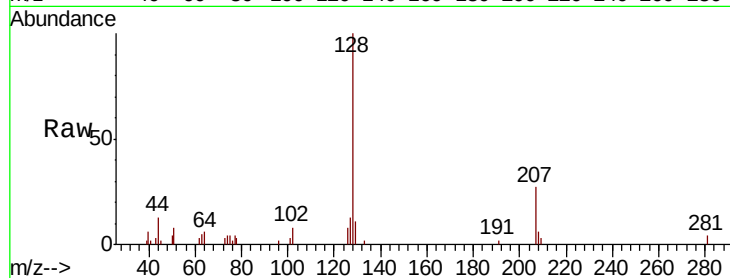
Tot Ion:128 Resp: 13717

Ion Ratio Lower Upper

128 100

127 11.9 10.6 15.8

129 10.9 8.6 12.8



Abundance

Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

