

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN100918\
 Data File : VN051768.D
 Acq On : 9 Oct 2018 23:29
 Operator : MD\SY
 Sample : PB113645ZHE#08
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 27 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 PB113645ZHE#08

Quant Time: Oct 10 03:37:04 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N100418W.M
 Quant Title : SW846 8260
 QLast Update : Tue Oct 09 06:03:49 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	762441	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1103421	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	992546	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	378264	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	444337	44.11	ug/l	0.00
Spiked Amount			Recovery	=	88.22%	
35) Dibromofluoromethane	7.59	113	408010	47.83	ug/l	0.00
Spiked Amount			Recovery	=	95.66%	
50) Toluene-d8	10.09	98	1581757	49.70	ug/l	0.00
Spiked Amount			Recovery	=	99.40%	
62) 4-Bromofluorobenzene	12.40	95	452549	40.17	ug/l	0.00
Spiked Amount			Recovery	=	80.34%	

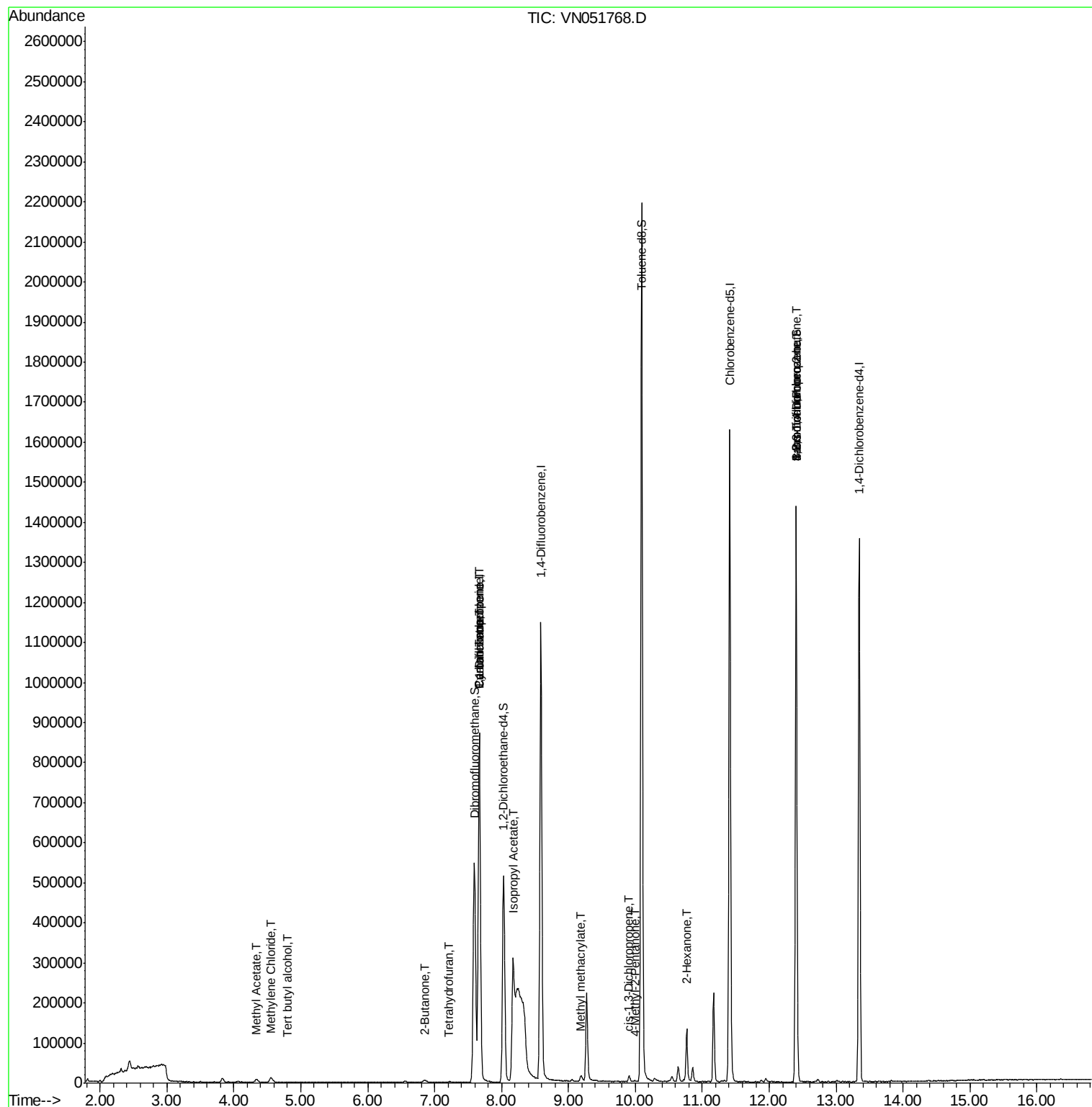
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
7) Trichlorofluoromethane	2.80	101	67	Below Cal	#	27
11) Tert butyl alcohol	4.80	59	441	0.644	ug/l #	86
13) Acrolein	3.70	56	72	Below Cal	#	1
16) Acetone	3.83	43	17025	Below Cal		96
18) Methyl Acetate	4.34	43	15619	2.809	ug/l #	61
20) Methylene Chloride	4.56	84	8886	1.072	ug/l #	90
25) 2-Butanone	6.85	43	6948	2.389	ug/l #	86
29) Tetrahydrofuran	7.22	42	1557	0.872	ug/l #	63
31) Cyclohexane	7.66	56	13367	0.978	ug/l #	31
36) 1,1-Dichloropropene	7.67	75	51106	4.431	ug/l #	49
38) Carbon Tetrachloride	7.67	117	68676	4.962	ug/l #	15
41) Methacrylonitrile	7.17	41	155	Below Cal	#	47
43) Isopropyl Acetate	8.17	43	389535	31.060	ug/l #	90
48) Methyl methacrylate	9.18	41	7375	1.287	ug/l #	14
51) 4-Methyl-2-Pentanone	9.99	43	1746	0.275	ug/l	99
54) cis-1,3-Dichloropropene	9.90	75	2982	0.210	ug/l #	66
59) 2-Hexanone	10.77	43	18947	4.390	ug/l #	56
71) Bromoform	12.40	173	4121	0.563	ug/l #	1
74) N-amyl acetate	12.07	43	275	Below Cal	#	41
75) 1,1,2,2-Tetrachloroethane	12.40	83	605	Below Cal	#	1
76) 1,2,3-Trichloropropane	12.40	75	245923	52.531	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	245923	119.508	ug/l #	14

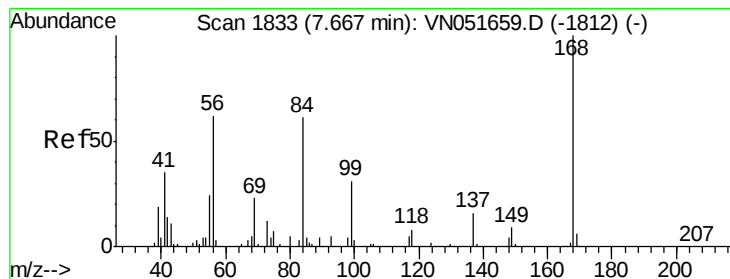
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN100918\
Data File : VN051768.D
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Quant Time: Oct 10 03:37:04 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N100418W.M
Quant Title : SW846 8260
QLast Update : Tue Oct 09 06:03:49 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN051768.D

Acq: 9 Oct 2018 23:29

Instrument :

MSVOA_N

ClientSampleId :

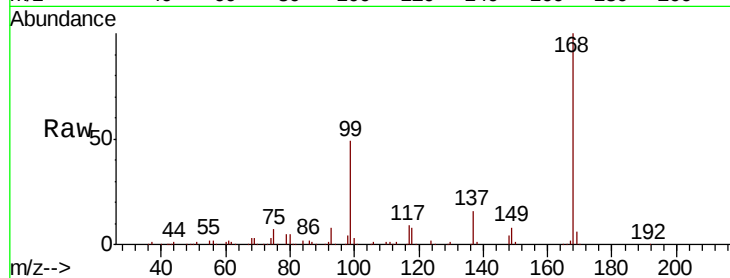
PB113645ZHE#08

Tot Ion:168 Resp: 762441

Ion Ratio Lower Upper

168 100

99 49.3 40.4 60.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

7.67

300000

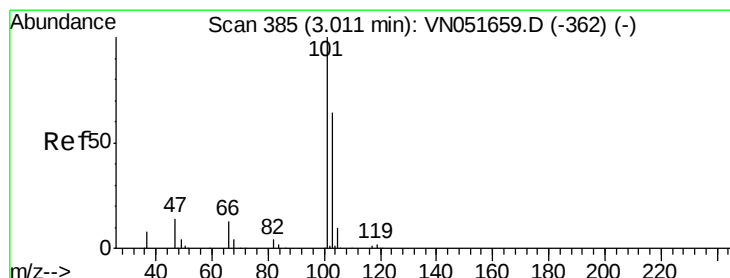
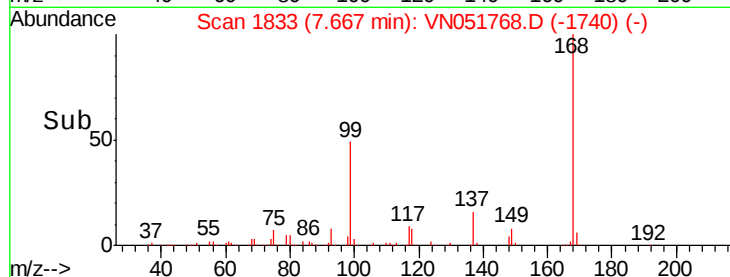
200000

100000

0

7.60 7.70 7.80

Time-->



#7

Trichlorofluoromethane

Concen: Below Cal

RT: 2.80 min Scan# 320

Delta R.T. -0.21 min

Lab File: VN051768.D

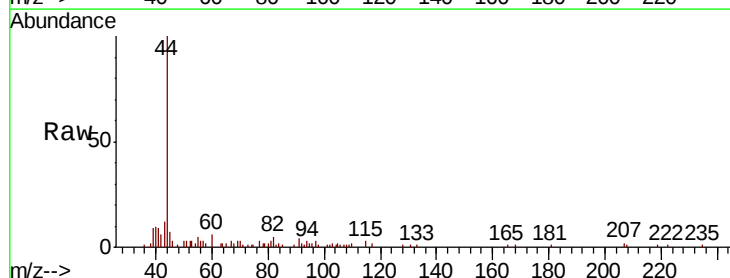
Acq: 9 Oct 2018 23:29

Tgt Ion:101 Resp: 67

Ion Ratio Lower Upper

101 100

103 7.2 51.1 76.7#



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 102.80 (102.50 to 103.50): V

400

300

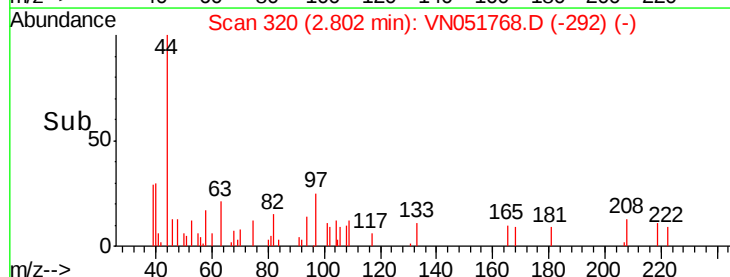
200

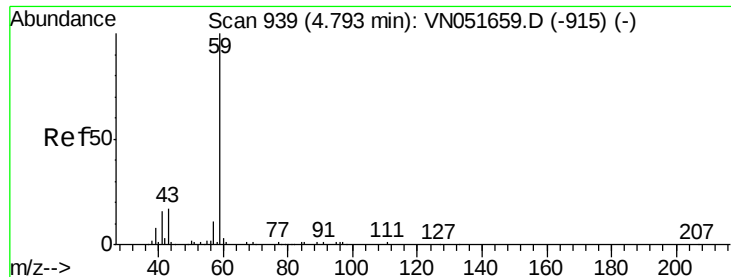
100

0

2.79 2.80 2.81

Time-->

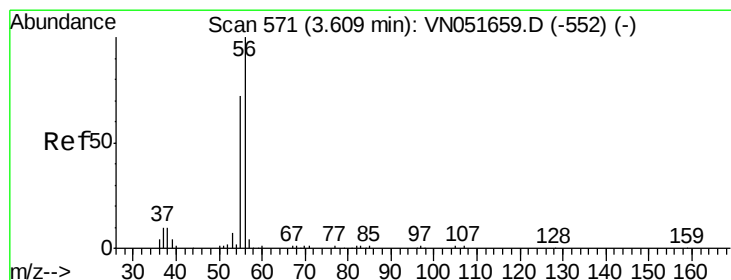
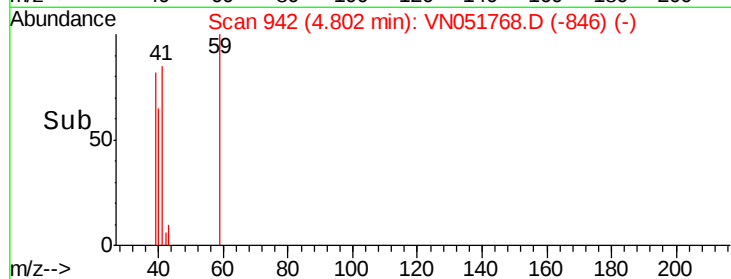
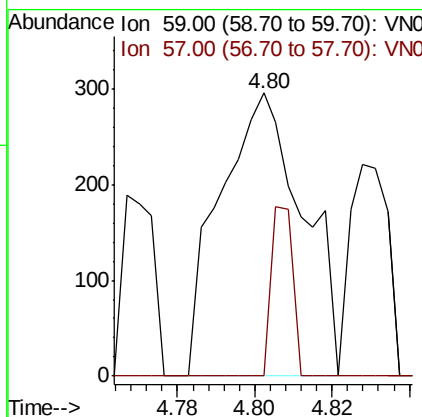
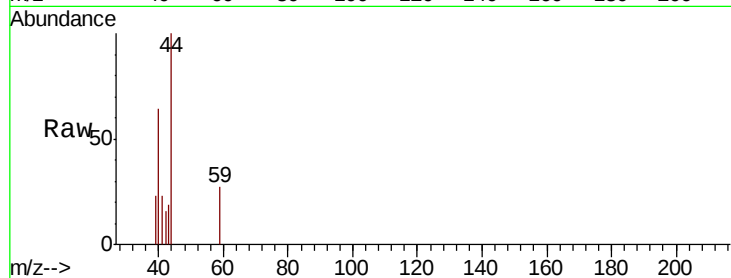




#11
Tert butyl alcohol
Concen: 0.644 ug/l
RT: 4.80 min Scan# 942
Delta R.T. 0.01 min
Lab File: VN051768.D
Acq: 9 Oct 2018 23:29

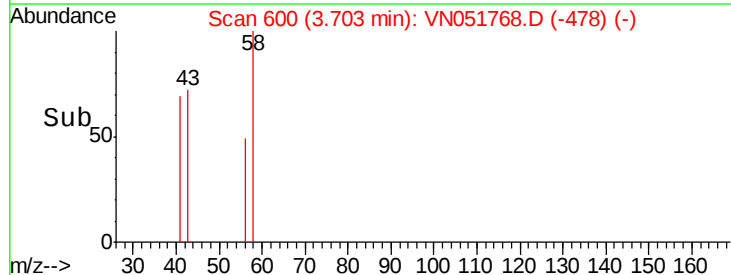
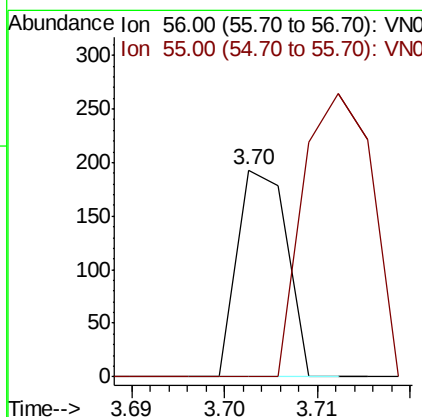
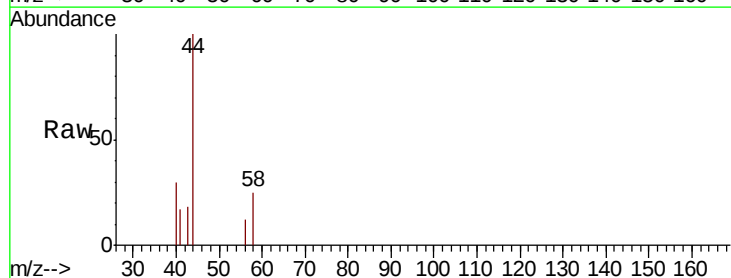
Instrument :
MSVOA_N
ClientSampleId :
PB113645ZHE#08

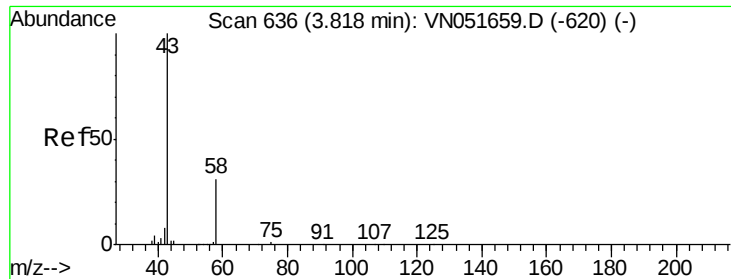
Tot Ion: 59 Resp: 441
Ion Ratio Lower Upper
59 100
57 15.4 8.1 12.1#



#13
Acrolein
Concen: Below Cal
RT: 3.70 min Scan# 600
Delta R.T. 0.09 min
Lab File: VN051768.D
Acq: 9 Oct 2018 23:29

Tgt Ion: 56 Resp: 72
Ion Ratio Lower Upper
56 100
55 188.9 57.5 86.3#

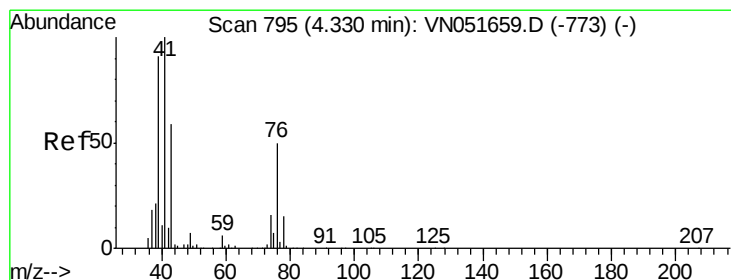
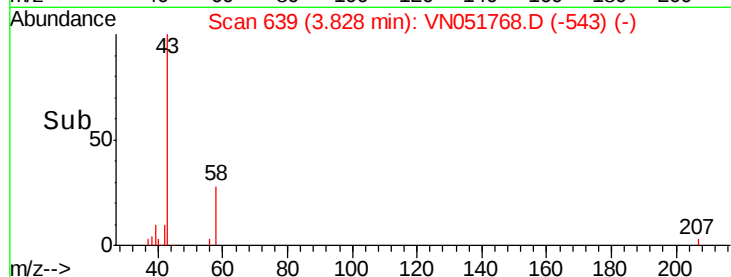
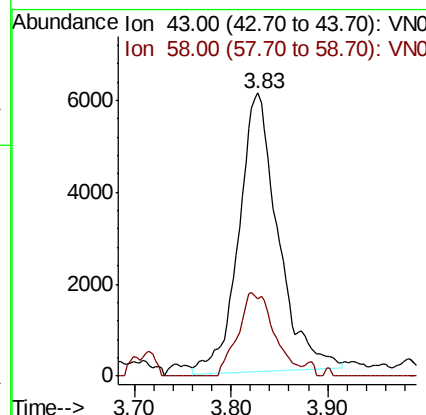
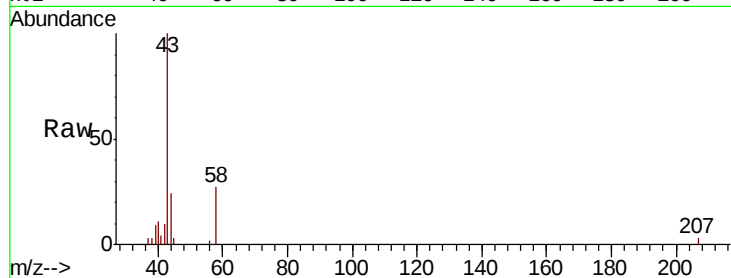




#16
Acetone
Concen: Below Cal
RT: 3.83 min Scan# 639
Delta R.T. 0.01 min
Lab File: VN051768.D
Acq: 9 Oct 2018 23:29

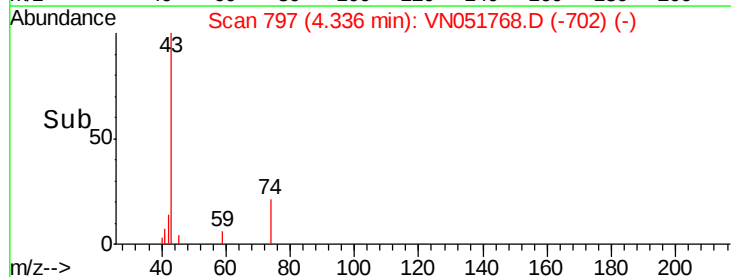
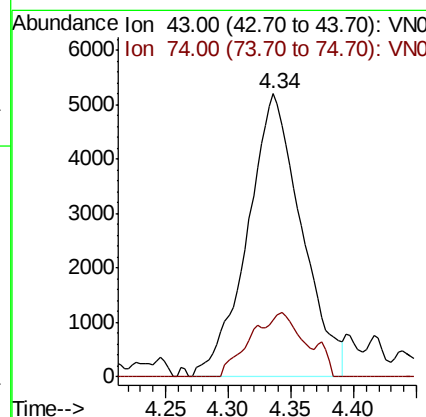
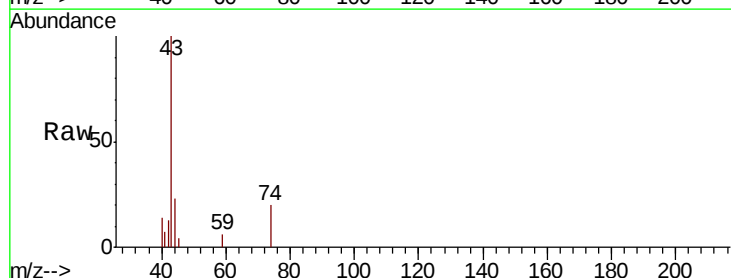
Instrument :
MSVOA_N
ClientSampleId :
PB113645ZHE#08

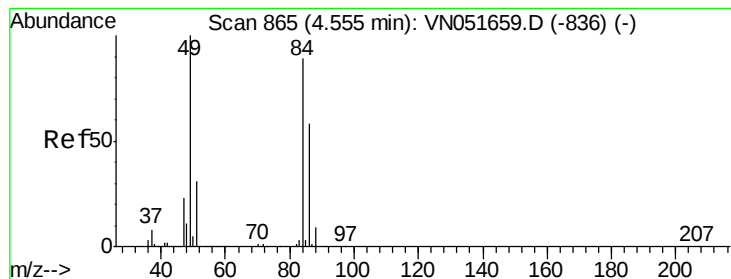
Tot Ion: 43 Resp: 17025
Ion Ratio Lower Upper
43 100
58 28.2 24.3 36.5



#18
Methyl Acetate
Concen: 2.809 ug/l
RT: 4.34 min Scan# 797
Delta R.T. 0.01 min
Lab File: VN051768.D
Acq: 9 Oct 2018 23:29

Tgt Ion: 43 Resp: 15619
Ion Ratio Lower Upper
43 100
74 6.5 21.5 32.3#





#20

Methvlene Chloride

Concen: 1.072 ug/l

RT: 4.56 min Scan# 866

Delta R.T. 0.00 min

Lab File: VN051768.D

Acq: 9 Oct 2018 23:29

Instrument :

MSVOA_N

ClientSampleId :

PB113645ZHE#08

Tot Ion: 84 Resp: 8886

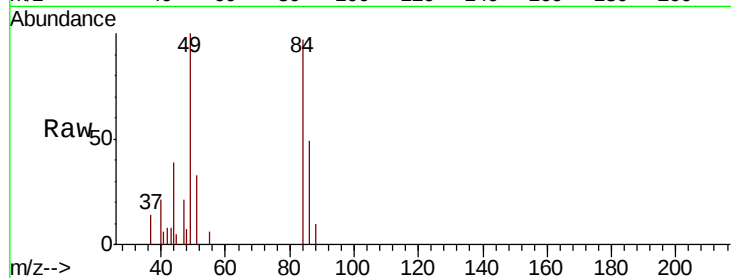
Ion Ratio Lower Upper

84 100

49 103.5 89.5 134.3

51 33.8 27.4 41.0

86 50.2 51.9 77.9#

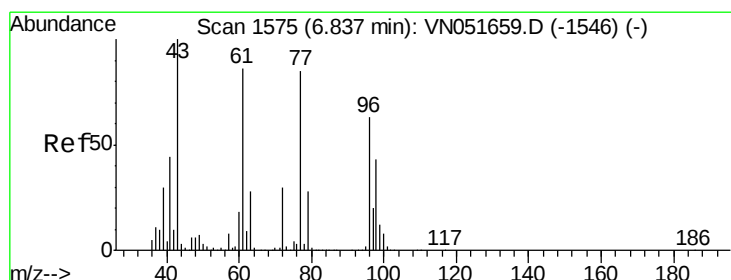
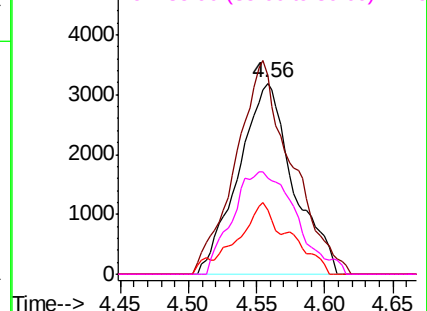
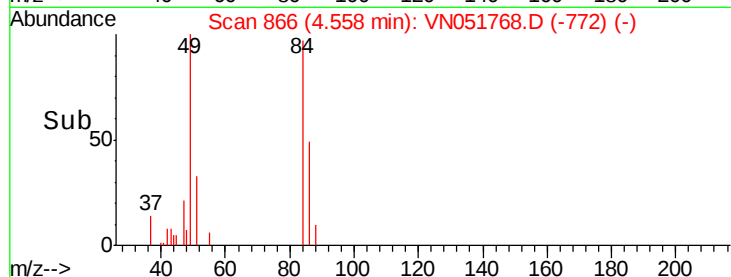


Abundance Ion 83.90 (83.60 to 84.60): VN0

Ion 48.90 (48.60 to 49.60): VN0

Ion 50.90 (50.60 to 51.60): VN0

Ion 85.90 (85.60 to 86.60): VN0



#25

2-Butanone

Concen: 2.389 ug/l

RT: 6.85 min Scan# 1579

Delta R.T. 0.01 min

Lab File: VN051768.D

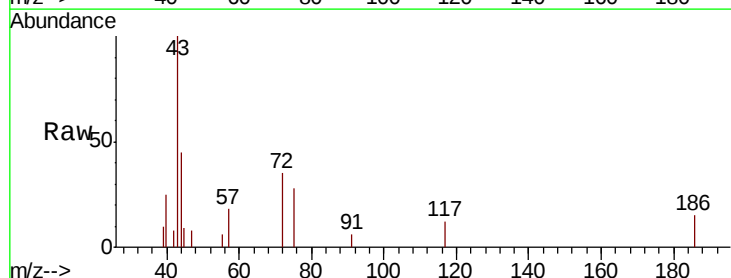
Acq: 9 Oct 2018 23:29

Tgt Ion: 43 Resp: 6948

Ion Ratio Lower Upper

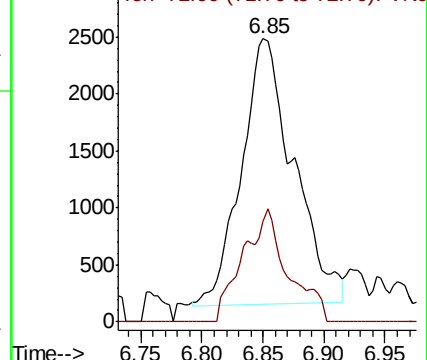
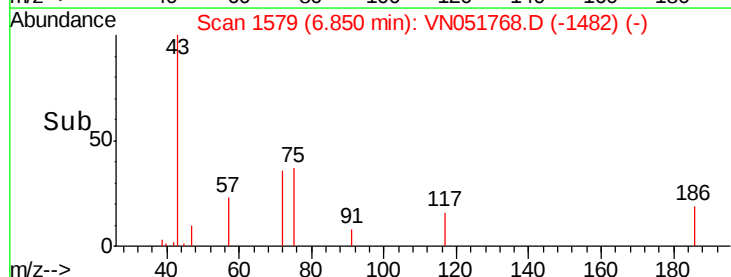
43 100

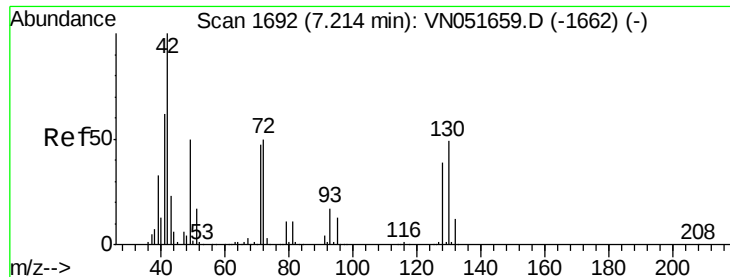
72 38.1 24.2 36.2#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0





#29

Tetrahydrofuran

Concen: 0.872 ug/l

RT: 7.22 min Scan# 1695

Delta R.T. 0.01 min

Lab File: VN051768.D

Acq: 9 Oct 2018 23:29

Instrument :

MSVOA_N

ClientSampleId :

PB113645ZHE#08

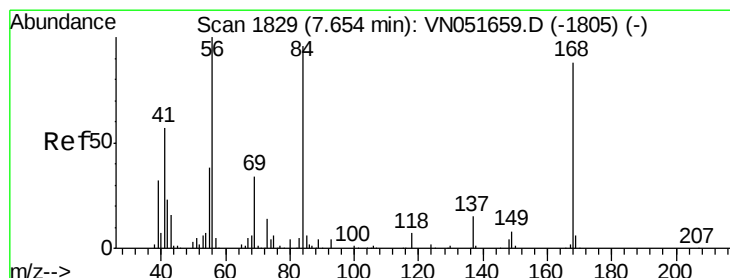
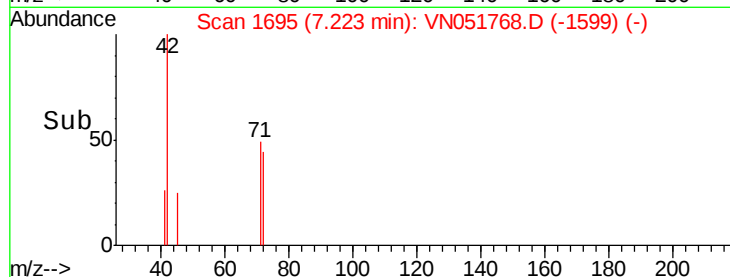
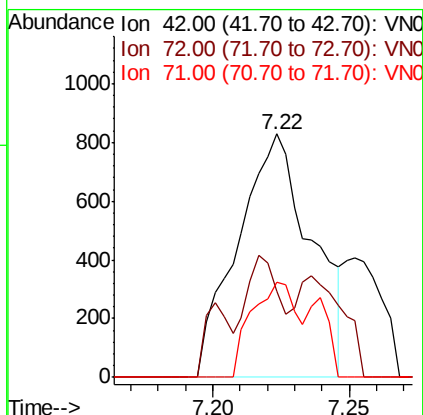
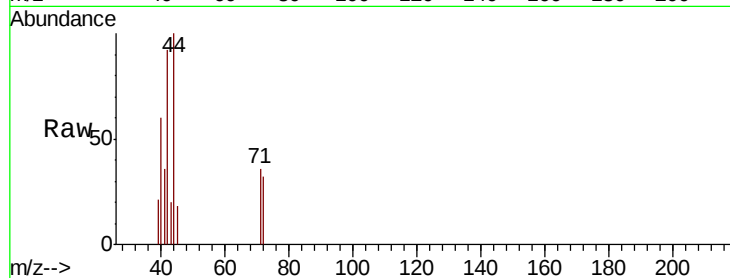
Tot Ion: 42 Resp: 1557

Ion Ratio Lower Upper

42 100

72 22.8 40.1 60.1#

71 24.1 38.0 57.0#



#31

Cyclohexane

Concen: 0.978 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. 0.01 min

Lab File: VN051768.D

Acq: 9 Oct 2018 23:29

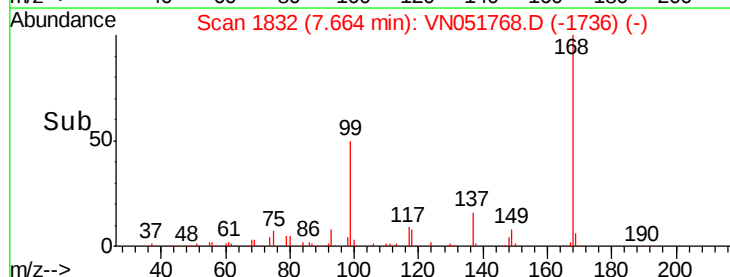
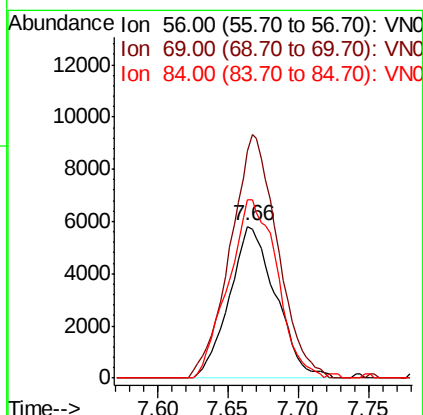
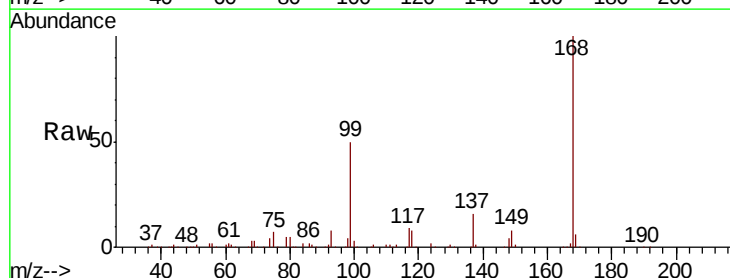
Tgt Ion: 56 Resp: 13367

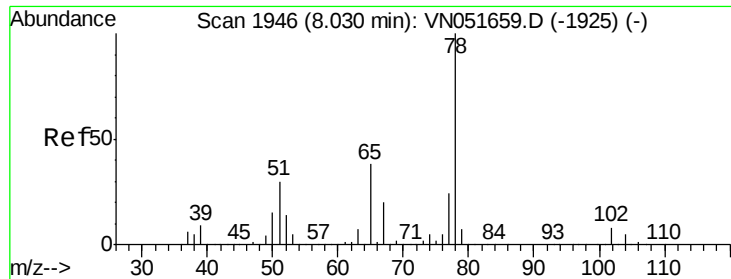
Ion Ratio Lower Upper

56 100

69 149.3 27.5 41.3#

84 117.3 76.7 115.1#

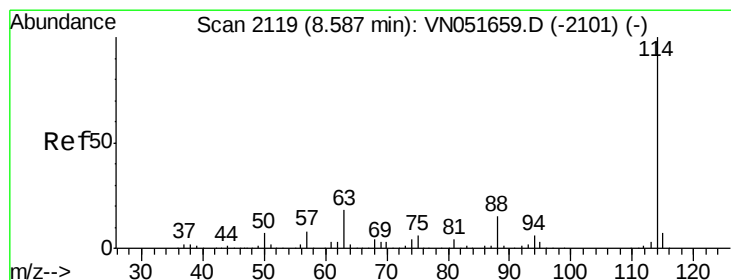
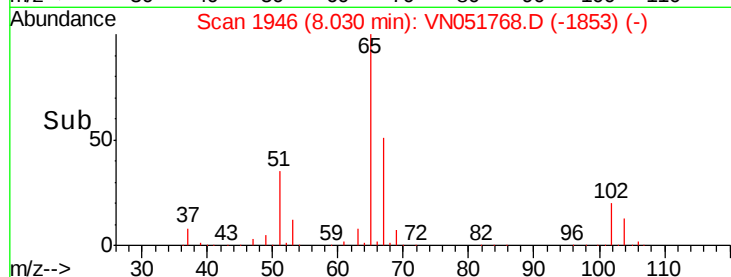
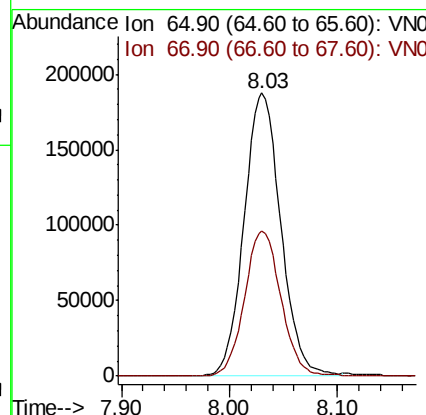
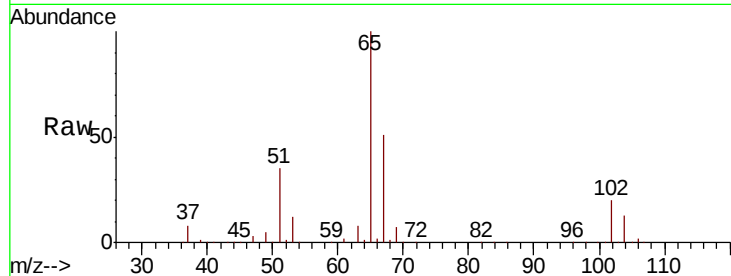




#33
 1,2-Dichloroethane-d4
 Concen: Below ug/l
 RT: 8.03 min Scan# 1946
 Delta R.T. 0.00 min
 Lab File: VN051768.D
 Acq: 9 Oct 2018 23:29

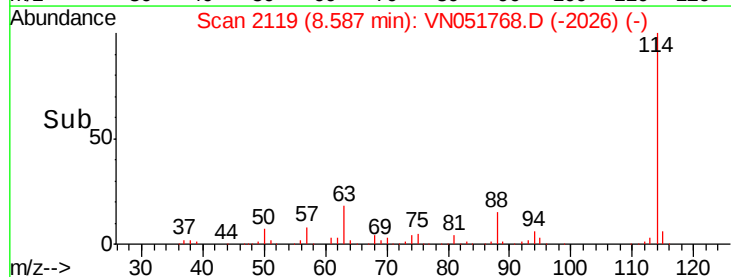
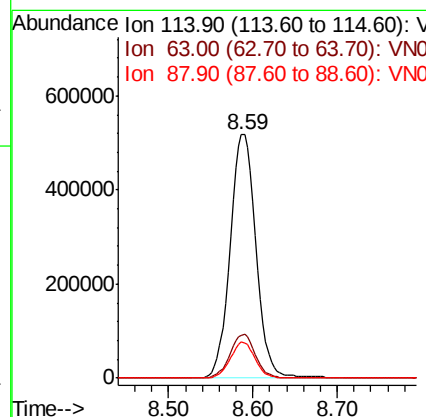
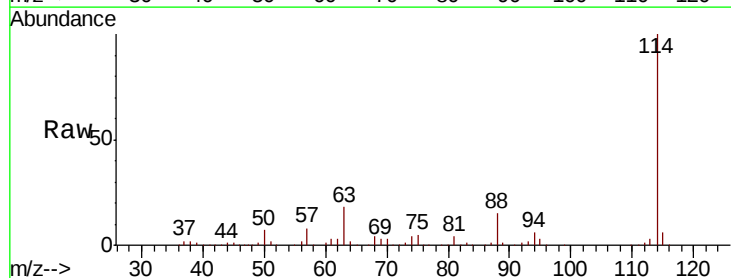
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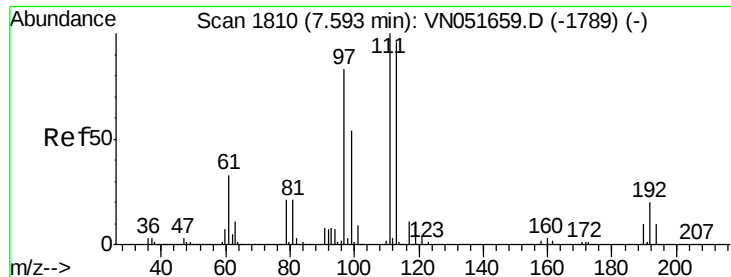
Tot Ion: 65 Resp: 444337
 Ion Ratio Lower Upper
 65 100
 67 50.9 0.0 103.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN051768.D
 Acq: 9 Oct 2018 23:29

Tgt Ion: 114 Resp: 1103421
 Ion Ratio Lower Upper
 114 100
 63 17.7 0.0 36.2
 88 14.7 0.0 30.2

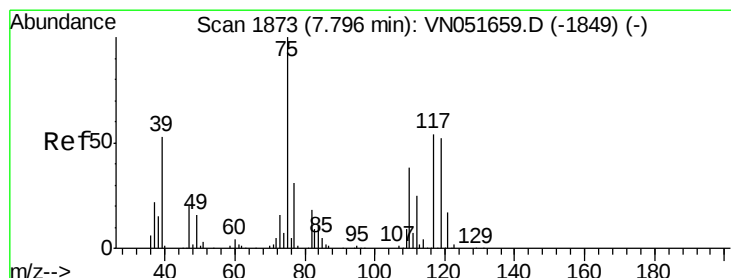
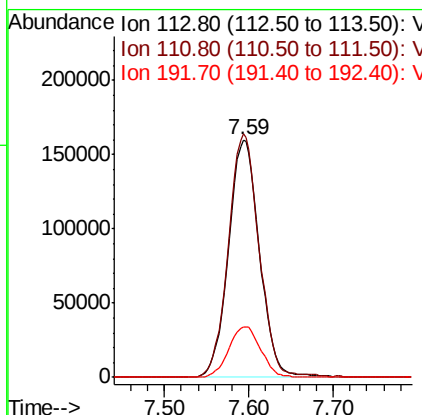
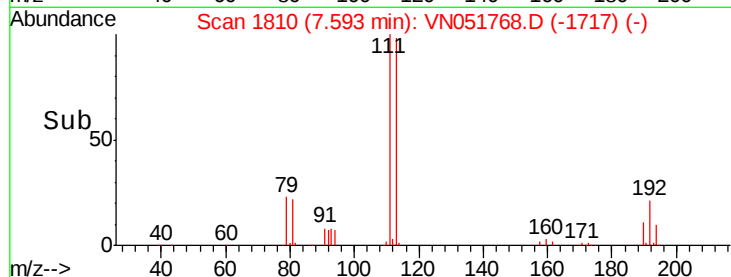
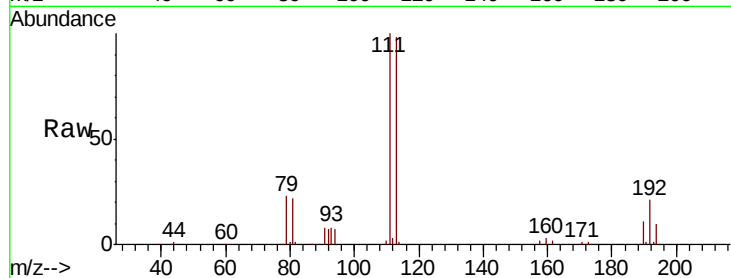




#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN051768.D
 Acq: 9 Oct 2018 23:29

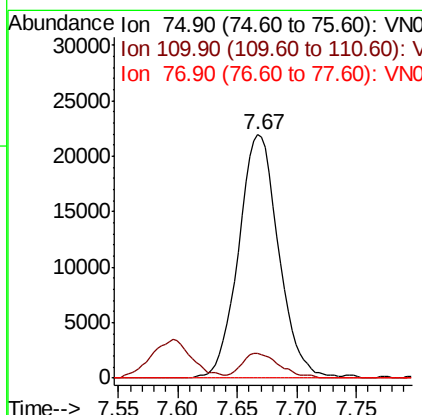
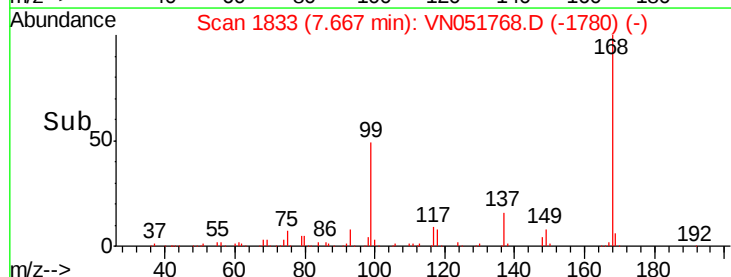
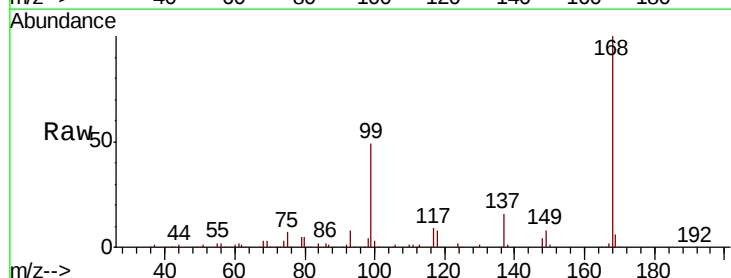
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 MSVOA_N
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 PB113645ZHE#08

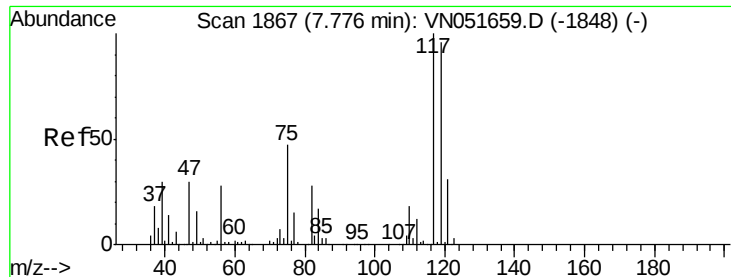
Tot Ion	Ratio	Lower	Upper
113	100		
111	101.2	81.8	122.8
192	21.8	16.5	24.7



#36
 1,1-Dichloropropene
 Concen: 4.431 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.13 min
 Lab File: VN051768.D
 Acq: 9 Oct 2018 23:29

Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.7	19.3	57.8#
77	0.0	24.7	37.1#





#38

Carbon Tetrachloride

Concen: 4.962 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.11 min

Lab File: VN051768.D

Acq: 9 Oct 2018 23:29

Instrument :

MSVOA_N

ClientSampleId :

PB113645ZHE#08

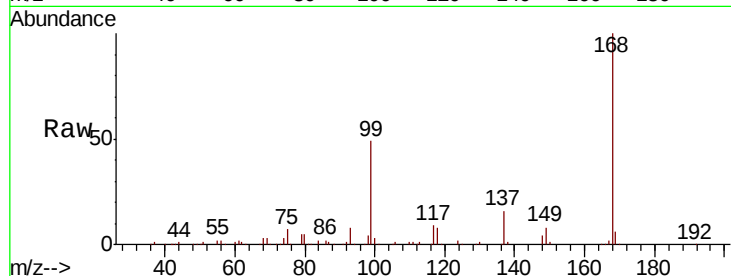
Tot Ion:117 Resp: 68676

Ion Ratio Lower Upper

117 100

119 4.5 77.0 115.6#

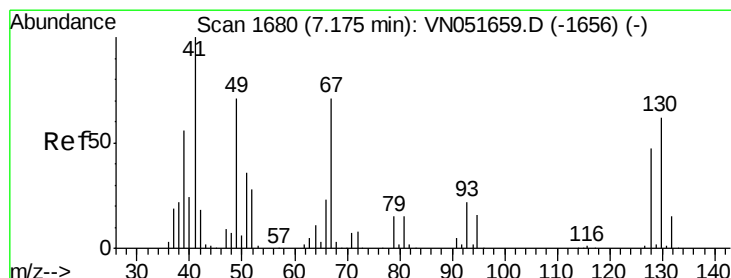
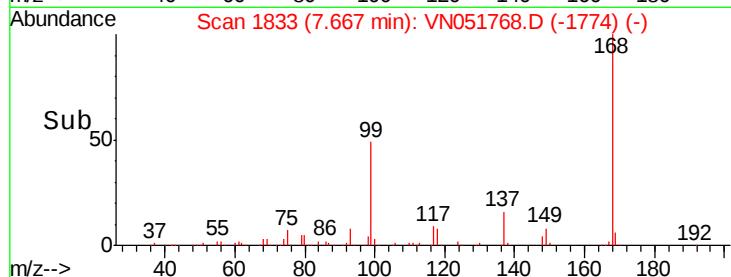
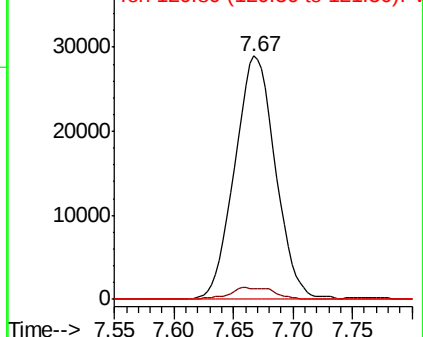
121 0.0 25.0 37.6#



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: Below Cal

RT: 7.17 min Scan# 1677

Delta R.T. -0.01 min

Lab File: VN051768.D

Acq: 9 Oct 2018 23:29

Tgt Ion: 41 Resp: 155

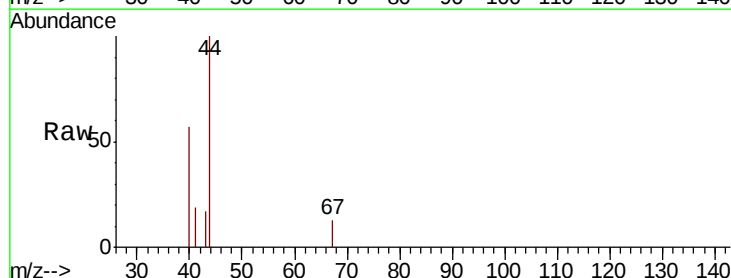
Ion Ratio Lower Upper

41 100

39 101.9 53.9 80.9#

67 43.9 78.1 117.1#

52 0.0 32.3 48.5#

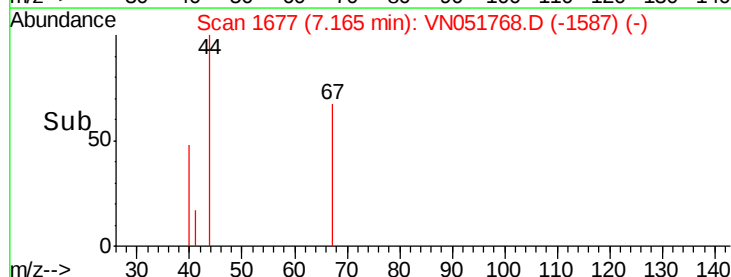
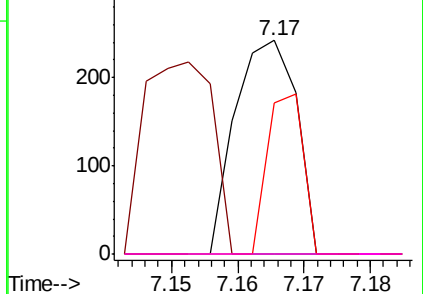


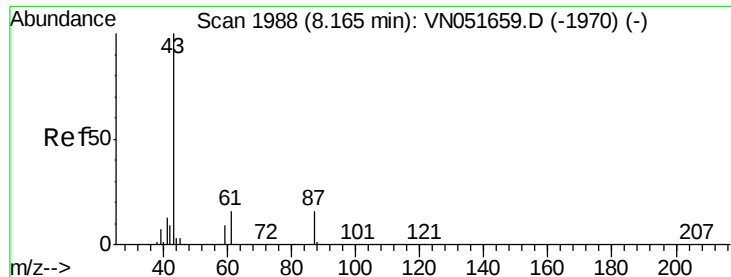
Abundance Ion 41.00 (40.70 to 41.70): V

Ion 39.00 (38.70 to 39.70): V

Ion 67.00 (66.70 to 67.70): V

Ion 52.00 (51.70 to 52.70): V





#43

Isopropyl Acetate

Concen: 31.060 ug/l

RT: 8.17 min Scan# 1990

Delta R.T. 0.01 min

Lab File: VN051768.D

Acq: 9 Oct 2018 23:29

Instrument :

MSVOA_N

ClientSampleId :

PB113645ZHE#08

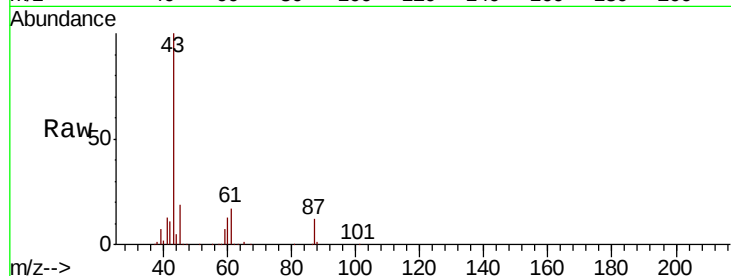
Tot Ion: 43 Resp: 389535

Ion Ratio Lower Upper

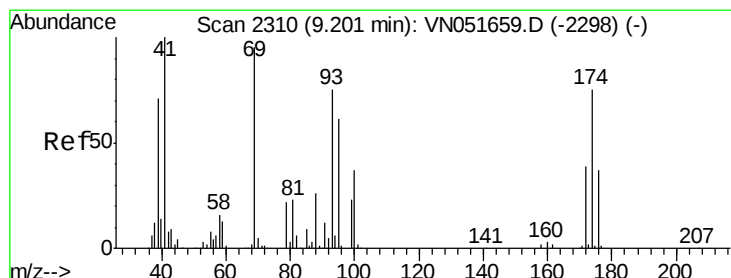
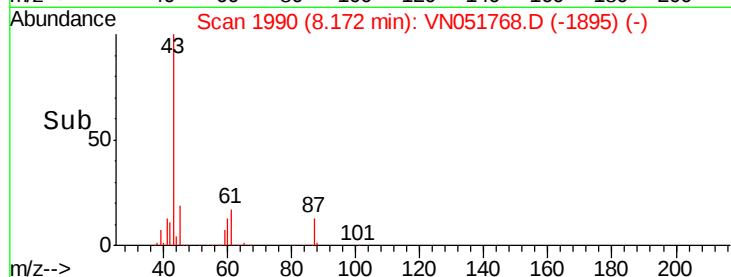
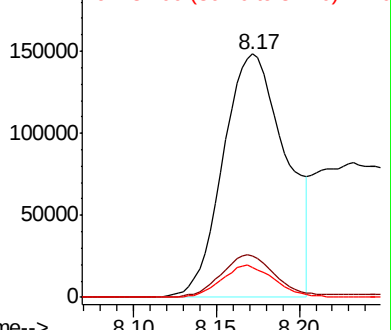
43 100

61 15.1 15.8 23.6#

87 11.2 12.6 19.0#



Abundance Ion 43.00 (42.70 to 43.70): VNO
Ion 61.00 (60.70 to 61.70): VNO
Ion 87.00 (86.70 to 87.70): VNO



#48

Methyl methacrylate

Concen: 1.287 ug/l

RT: 9.18 min Scan# 2303

Delta R.T. -0.02 min

Lab File: VN051768.D

Acq: 9 Oct 2018 23:29

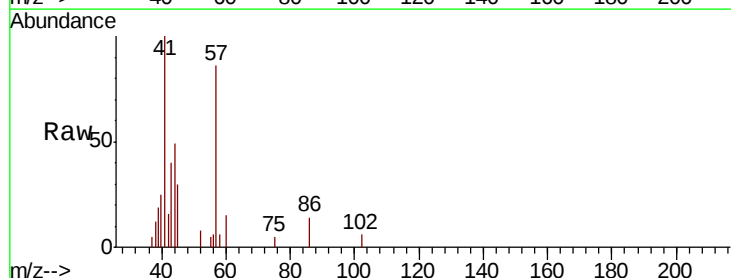
Tgt Ion: 41 Resp: 7375

Ion Ratio Lower Upper

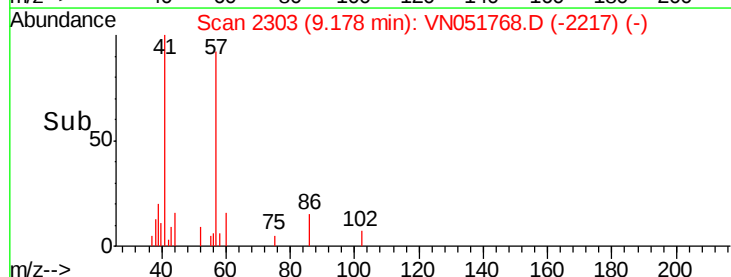
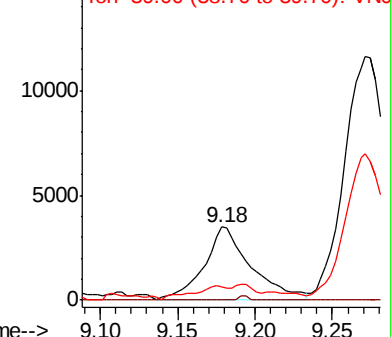
41 100

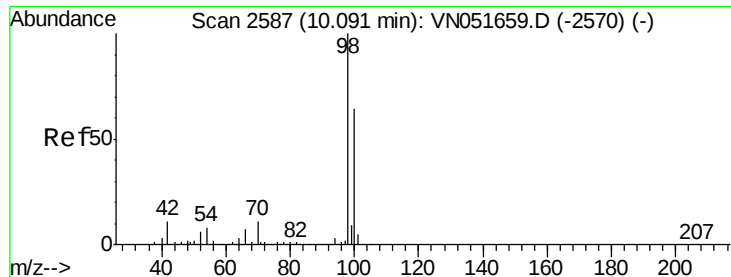
69 0.9 78.6 118.0#

39 14.2 59.2 88.8#



Abundance Ion 41.00 (40.70 to 41.70): VNO
Ion 69.00 (68.70 to 69.70): VNO
Ion 39.00 (38.70 to 39.70): VNO





#50

Toluene-d8

Concen: N.D. ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN051768.D

Acq: 9 Oct 2018 23:29

Instrument :

MSVOA_N

ClientSampleId :

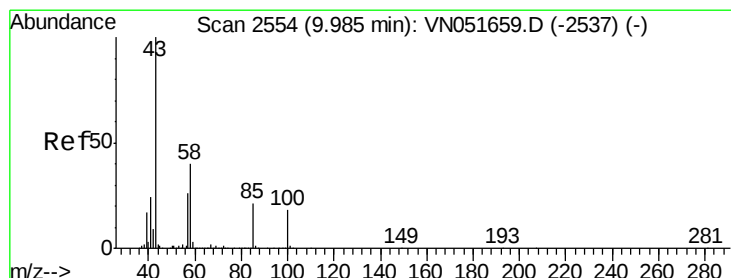
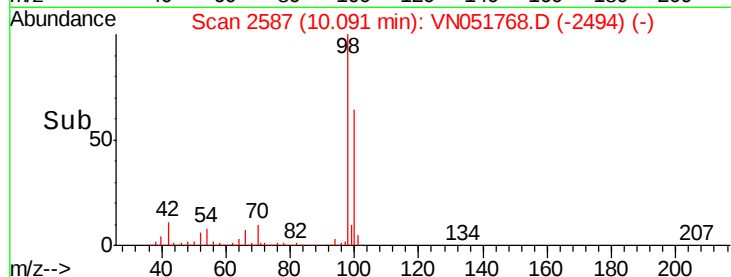
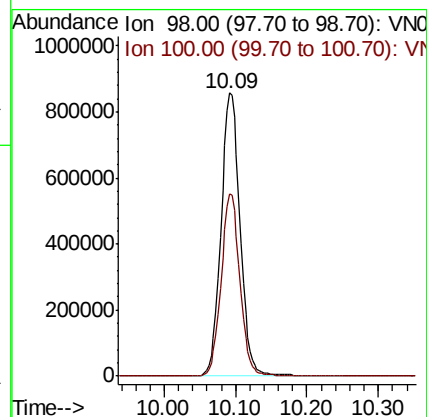
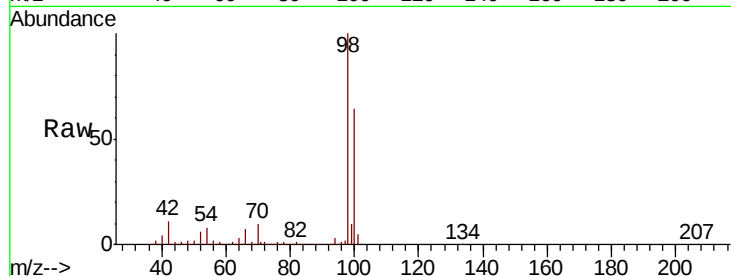
PB113645ZHE#08

Tot Ion: 98 Resp: 1581757

Ion Ratio Lower Upper

98 100

100 63.5 51.5 77.3



#51

4-Methyl-2-Pentanone

Concen: 0.275 ug/l

RT: 9.99 min Scan# 2555

Delta R.T. 0.00 min

Lab File: VN051768.D

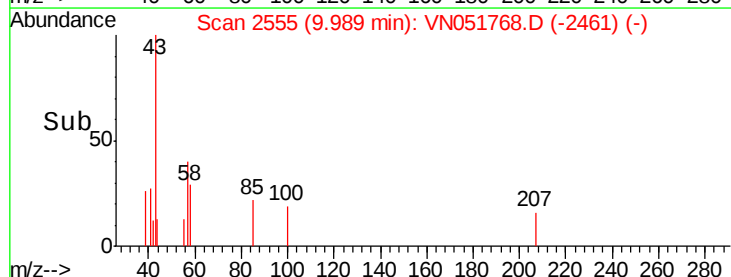
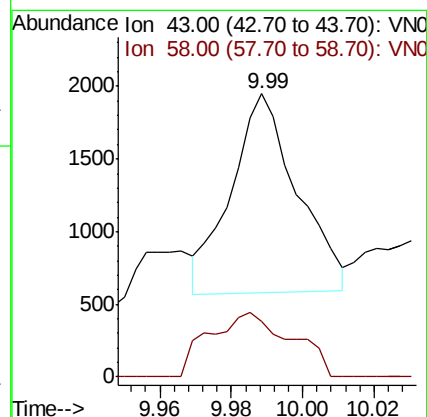
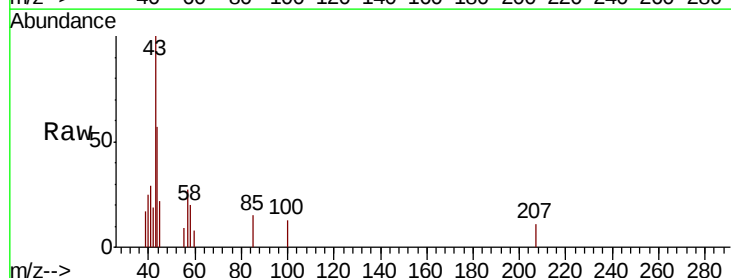
Acq: 9 Oct 2018 23:29

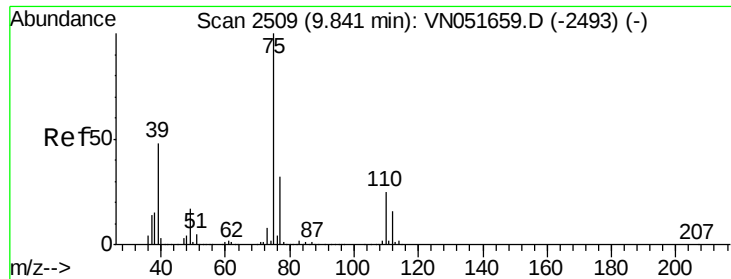
Tgt Ion: 43 Resp: 1746

Ion Ratio Lower Upper

43 100

58 40.5 32.2 48.2

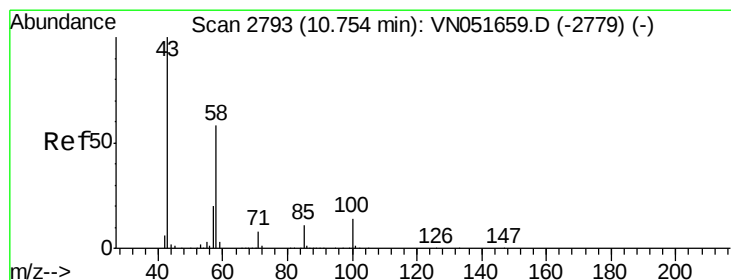
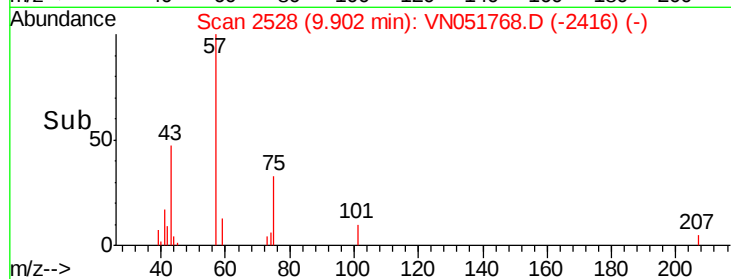
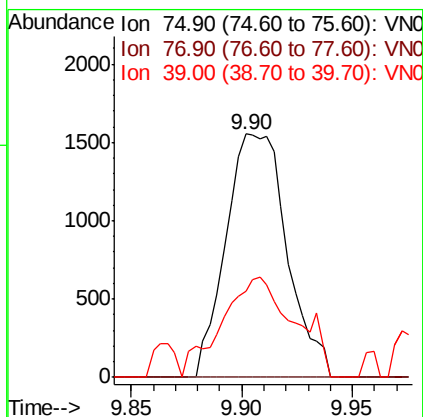
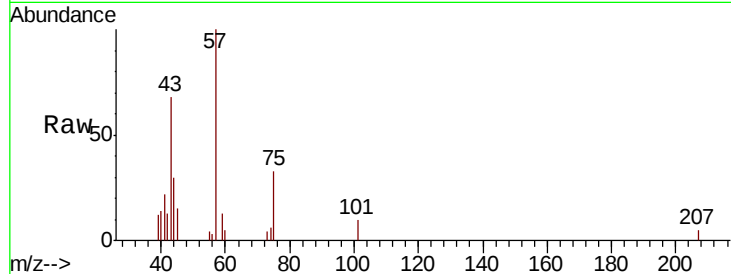




#54
 cis-1,3-Dichloropropene
 Concen: 0.210 ug/l
 RT: 9.90 min Scan# 2528
 Delta R.T. 0.06 min
 Lab File: VN051768.D
 Acq: 9 Oct 2018 23:29

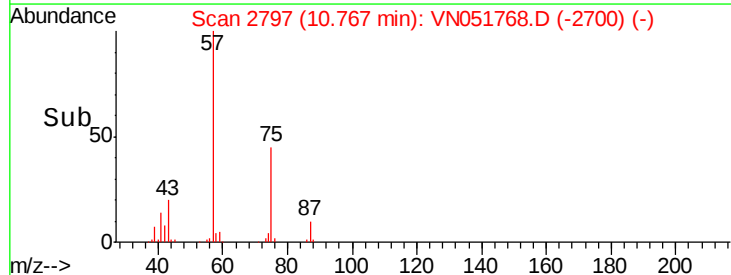
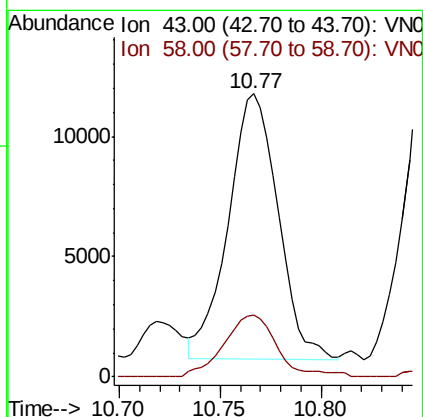
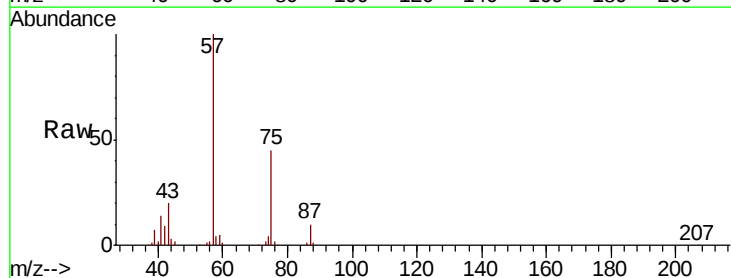
Instrument :
 MSVOA_N
 ClientSampleId :
 PB113645ZHE#08

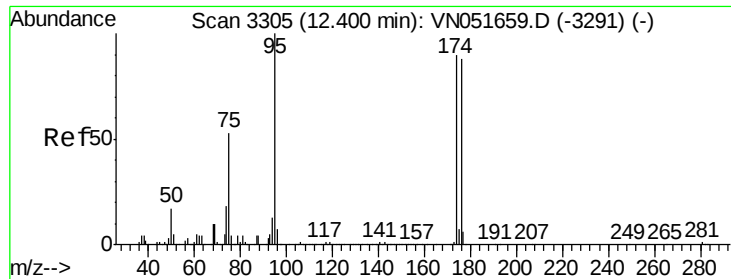
Tot Ion: 75 Resp: 2982
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.7 38.5#
 39 35.5 38.1 57.1#



#59
 2-Hexanone
 Concen: 4.390 ug/l
 RT: 10.77 min Scan# 2797
 Delta R.T. 0.01 min
 Lab File: VN051768.D
 Acq: 9 Oct 2018 23:29

Tgt Ion: 43 Resp: 18947
 Ion Ratio Lower Upper
 43 100
 58 25.1 28.8 86.4#

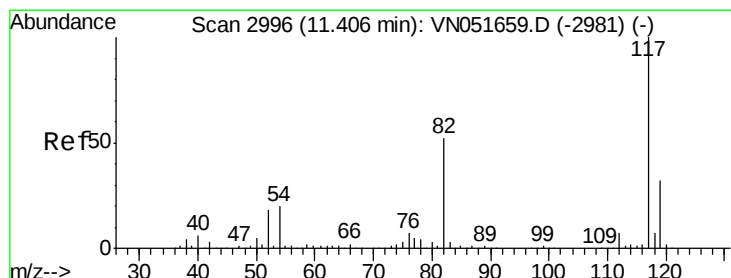
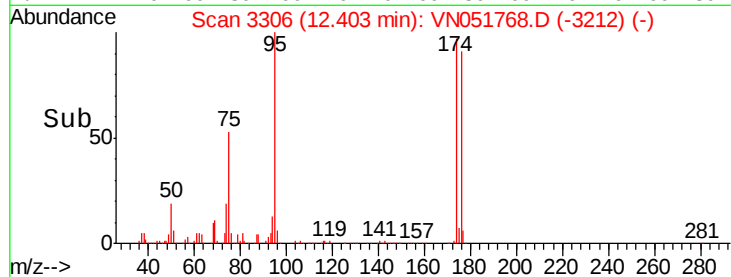
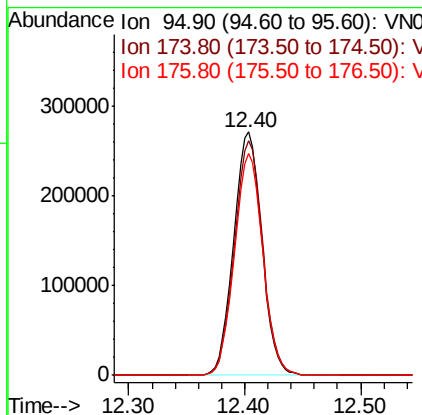
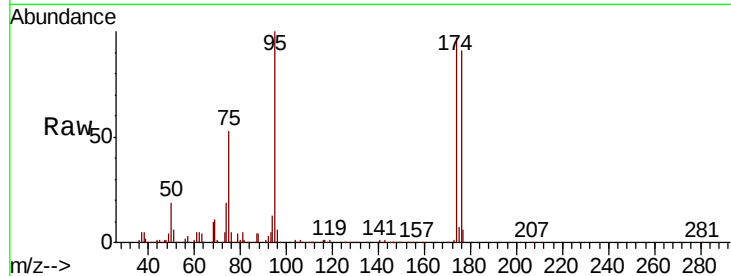




#62
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN051768.D
Acq: 9 Oct 2018 23:29

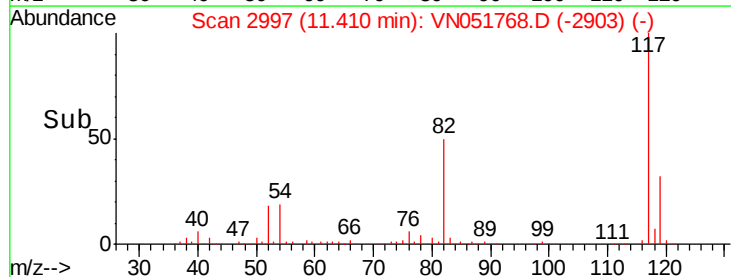
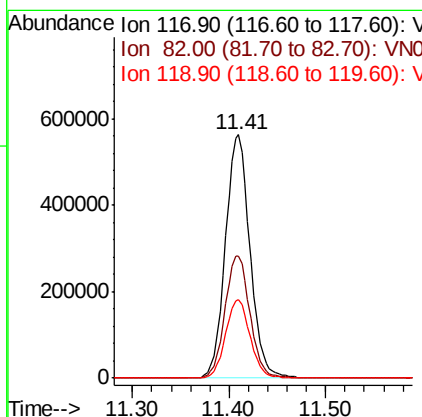
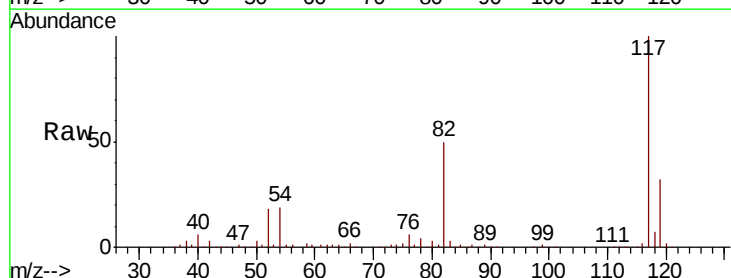
Instrument :
MSVOA_N
ClientSampleId :
PB113645ZHE#08

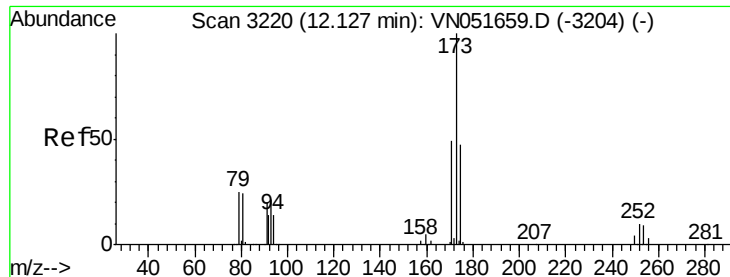
Tot Ion: 95 Resp: 452549
Ion Ratio Lower Upper
95 100
174 97.2 0.0 182.8
176 91.7 0.0 176.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2997
Delta R.T. 0.00 min
Lab File: VN051768.D
Acq: 9 Oct 2018 23:29

Tgt Ion: 117 Resp: 992546
Ion Ratio Lower Upper
117 100
82 50.4 41.3 61.9
119 32.4 25.9 38.9

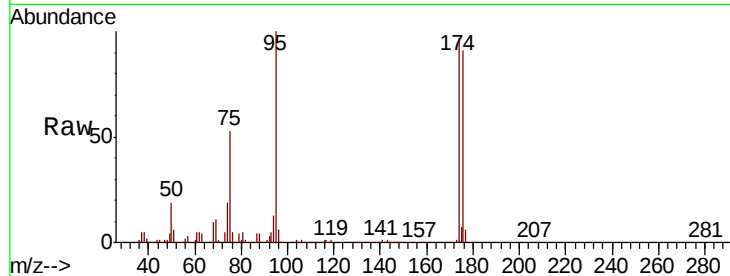




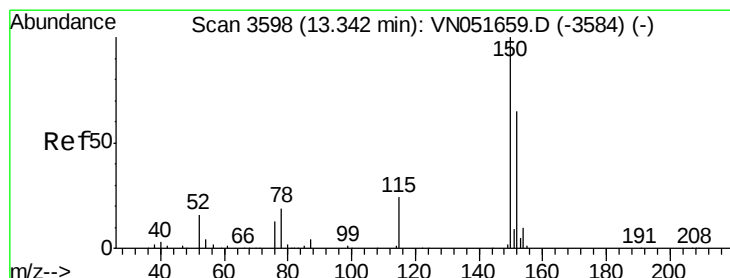
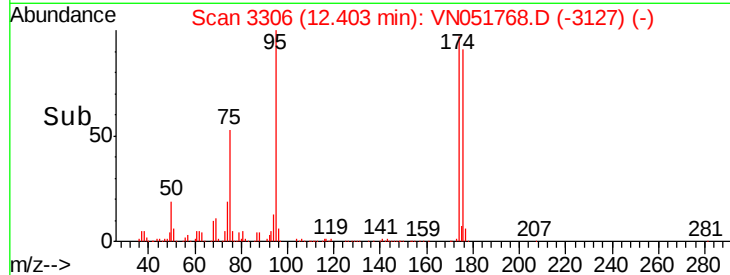
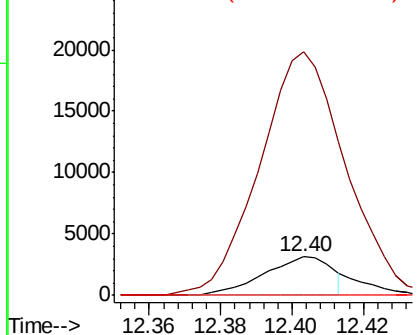
#71
Bromoform
Concen: 0.563 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.28 min
Lab File: VN051768.D
Acq: 9 Oct 2018 23:29

Instrument :
MSVOA_N
ClientSampleId :
PB113645ZHE#08

Tot Ion:173 Resp: 4121
Ion Ratio Lower Upper
173 100
175 672.2 24.0 72.0#
254 0.0 0.1 0.1#

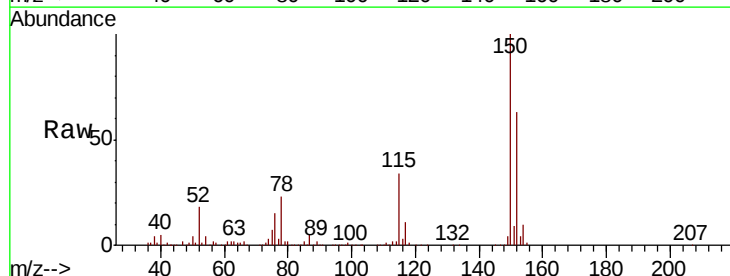


Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V

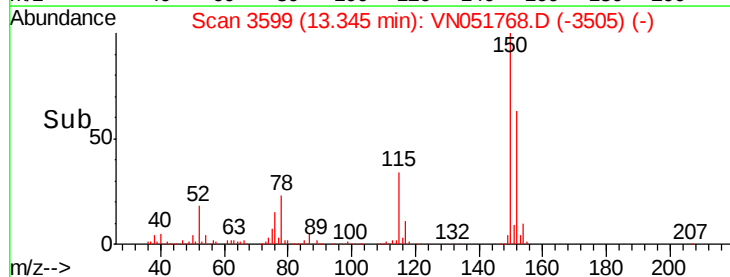
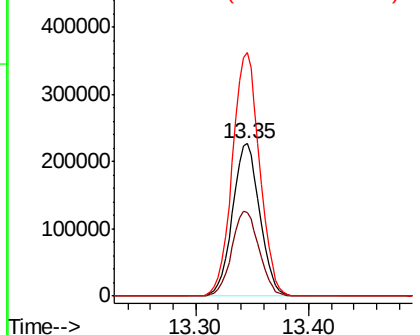


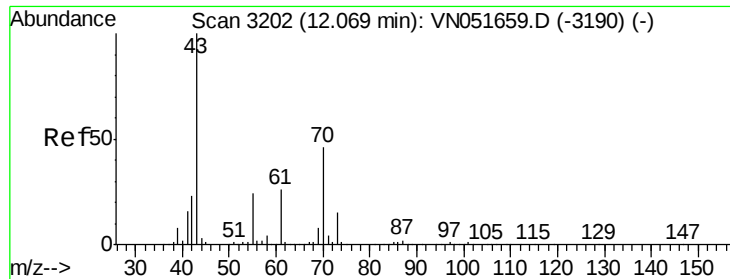
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.35 min Scan# 3599
Delta R.T. 0.00 min
Lab File: VN051768.D
Acq: 9 Oct 2018 23:29

Tgt Ion:152 Resp: 378264
Ion Ratio Lower Upper
152 100
115 55.9 28.6 85.8
150 159.9 0.0 352.4



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





#74

N-amvl acetate

Concen: Below Cal

RT: 12.07 min Scan# 3203

Delta R.T. 0.00 min

Lab File: VN051768.D

Acq: 9 Oct 2018 23:29

Instrument :

MSVOA_N

ClientSampleId :

PB113645ZHE#08

Tot Ion: 43 Resp: 275

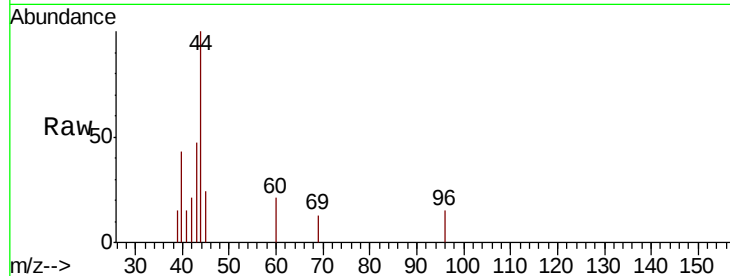
Ion Ratio Lower Upper

43 100

70 0.0 37.1 55.7#

55 0.0 19.1 28.7#

61 0.0 20.8 31.2#

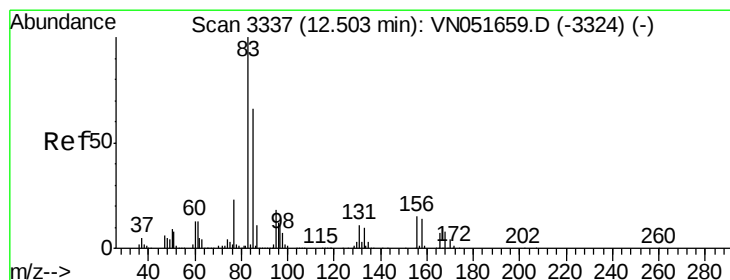
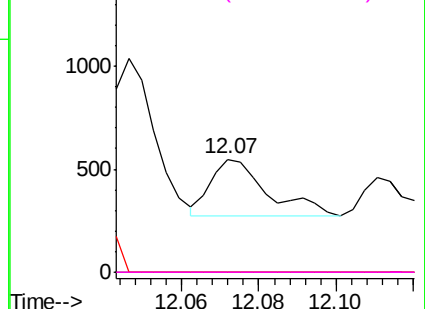
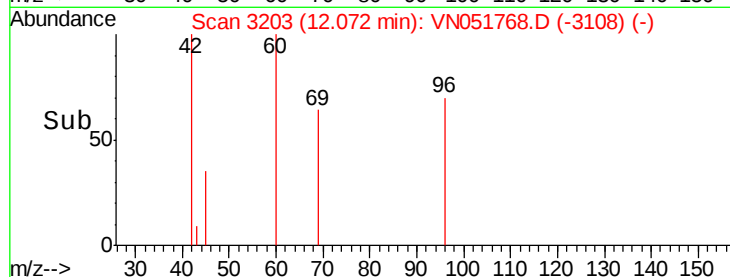


Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 70.00 (69.70 to 70.70): VNO

Ion 55.00 (54.70 to 55.70): VNO

Ion 61.00 (60.70 to 61.70): VNO



#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.40 min Scan# 3304

Delta R.T. -0.11 min

Lab File: VN051768.D

Acq: 9 Oct 2018 23:29

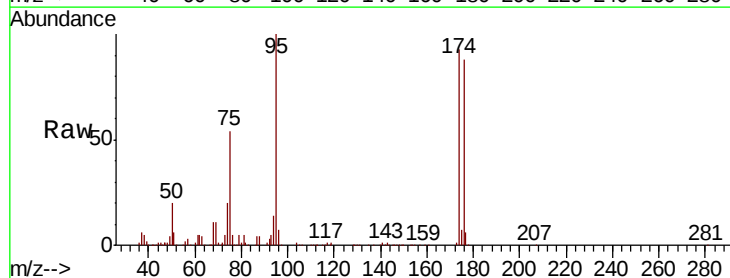
Tgt Ion: 83 Resp: 605

Ion Ratio Lower Upper

83 100

131 132.7 5.7 17.1#

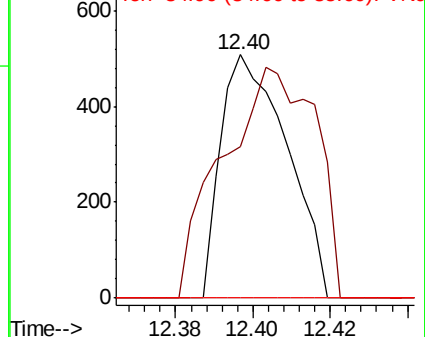
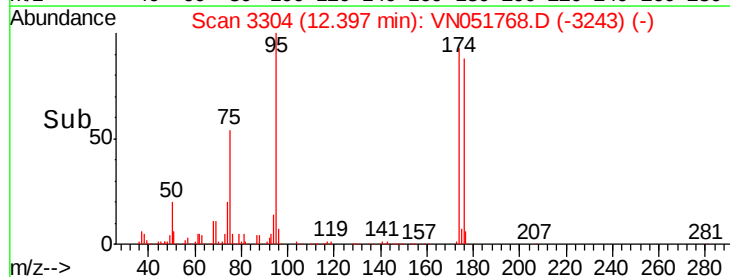
85 0.0 33.0 98.9#

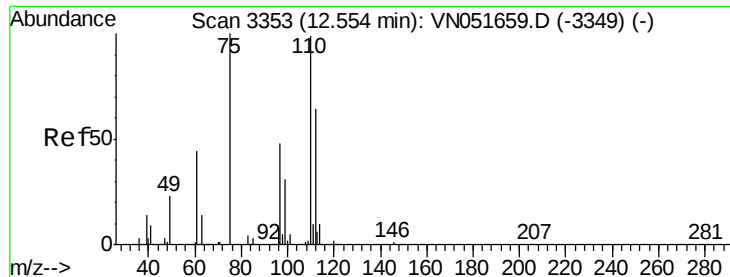


Abundance Ion 82.90 (82.60 to 83.60): VNO

Ion 130.80 (130.50 to 131.50): VNO

Ion 84.90 (84.60 to 85.60): VNO





#76

1,2,3-Trichloropropane

Concen: 52.531 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN051768.D

Acq: 9 Oct 2018 23:29

Instrument :

MSVOA_N

ClientSampleId :

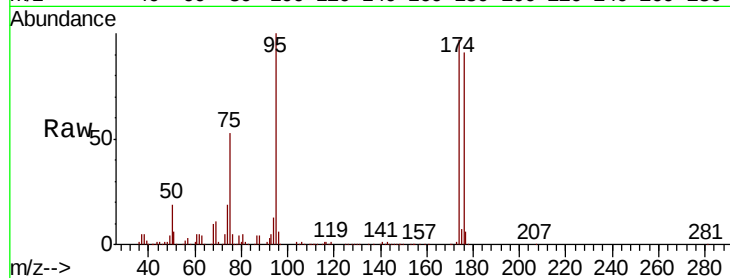
PB113645ZHE#08

Tot Ion: 75 Resp: 245923

Ion Ratio Lower Upper

75 100

77 1.0 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 77.00 (76.70 to 77.70): VNO

12.40

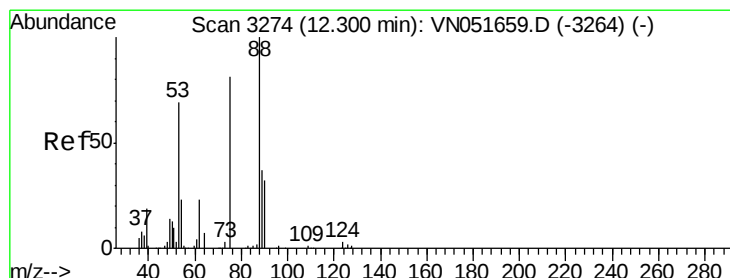
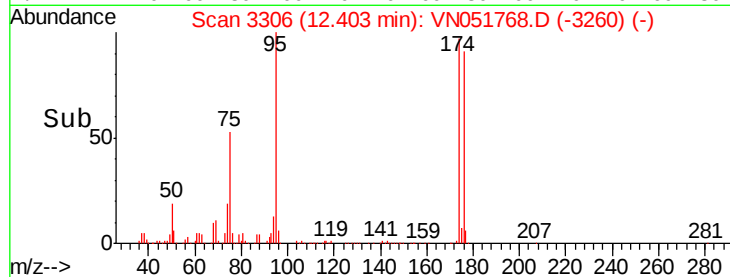
150000

100000

50000

0

Time--> 12.30 12.40 12.50



#81

trans-1,4-Dichloro-2-butene

Concen: 119.508 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN051768.D

Acq: 9 Oct 2018 23:29

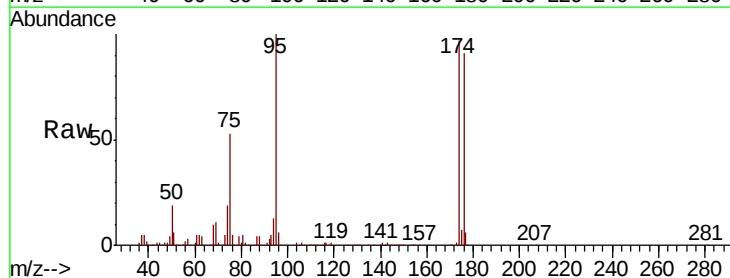
Tgt Ion: 75 Resp: 245923

Ion Ratio Lower Upper

75 100

53 0.0 68.6 102.8#

89 0.0 39.4 59.2#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO

12.40

200000

150000

100000

50000

0

Time--> 12.30 12.40 12.50

