

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN100918\
 Data File : VN051767.D
 Acq On : 9 Oct 2018 23:05
 Operator : MD\SY
 Sample : PB113645ZHE#07
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 26 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 PB113645ZHE#07

Quant Time: Oct 10 03:36:49 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

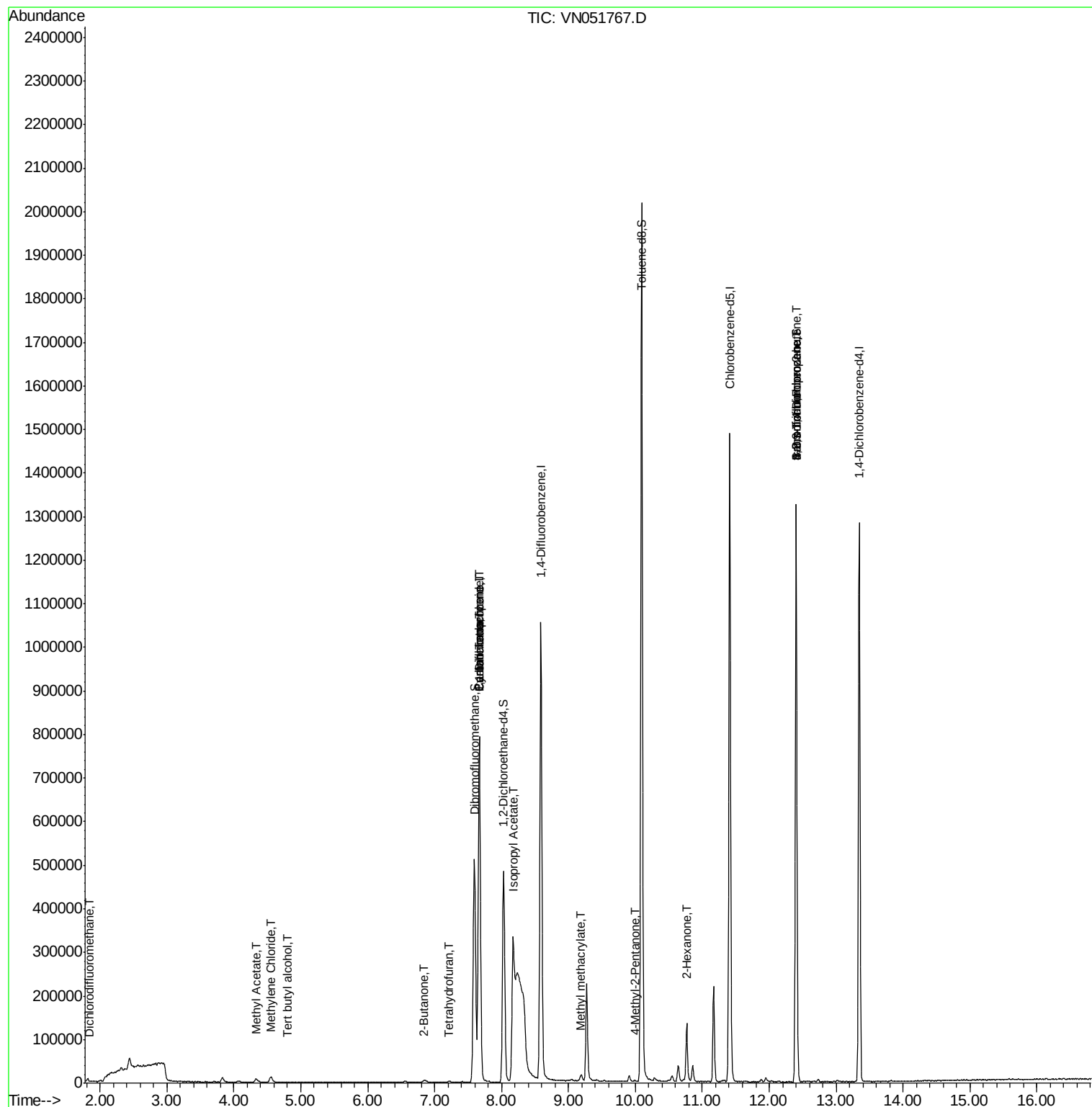
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	696882	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1006723	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	908734	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	356385	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.03	65	414187	44.99	ug/l	0.00
Spiked Amount	50.000		Recovery	=	89.98%	
35) Dibromofluoromethane	7.59	113	378100	48.58	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.16%	
50) Toluene-d8	10.09	98	1458287	50.22	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.44%	
62) 4-Bromofluorobenzene	12.40	95	414998	40.38	ug/l	0.00
Spiked Amount	50.000		Recovery	=	80.76%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.85	85	99	1.160	ug/l #	42
7) Trichlorofluoromethane	3.00	101	70	Below Cal	#	18
11) Tert butyl alcohol	4.79	59	205	0.328	ug/l #	73
13) Acrolein	3.62	56	31	Below Cal	#	1
16) Acetone	3.83	43	15633	Below Cal		93
18) Methyl Acetate	4.34	43	14575	2.868	ug/l	97
20) Methylene Chloride	4.55	84	9205	1.215	ug/l	87
25) 2-Butanone	6.84	43	3034	1.141	ug/l #	81
29) Tetrahydrofuran	7.21	42	697	0.427	ug/l #	72
31) Cyclohexane	7.66	56	13495	1.080	ug/l #	20
36) 1,1-Dichloropropene	7.67	75	45708	4.344	ug/l #	48
38) Carbon Tetrachloride	7.67	117	61710	4.887	ug/l #	15
41) Methacrylonitrile	7.16	41	60	Below Cal	#	1
43) Isopropyl Acetate	8.17	43	433520	37.887	ug/l #	87
48) Methyl methacrylate	9.18	41	8464	1.619	ug/l #	9
51) 4-Methyl-2-Pentanone	9.99	43	2303	0.397	ug/l #	35
59) 2-Hexanone	10.77	43	19188	4.873	ug/l #	55
71) Bromoform	12.41	173	3569	0.532	ug/l #	1
74) N-amyl acetate	12.07	43	312	Below Cal	#	19
75) 1,1,2,2-Tetrachloroethane	12.41	83	458	Below Cal	#	1
76) 1,2,3-Trichloropropane	12.40	75	226121	51.159	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	226121	116.631	ug/l #	14

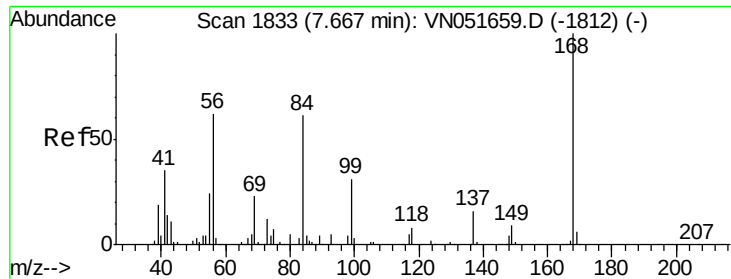
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN051767.D

Acq: 9 Oct 2018 23:05

Instrument :

MSVOA_N

ClientSampleId :

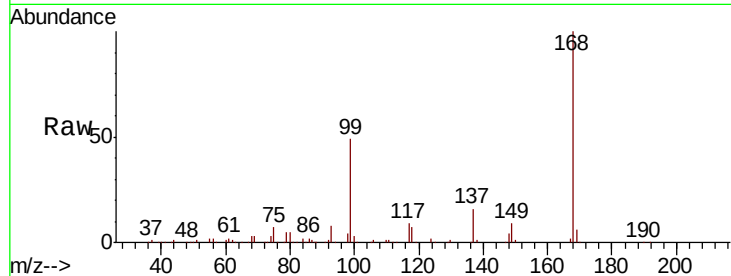
PB113645ZHE#07

Tot Ion:168 Resp: 696882

Ion Ratio Lower Upper

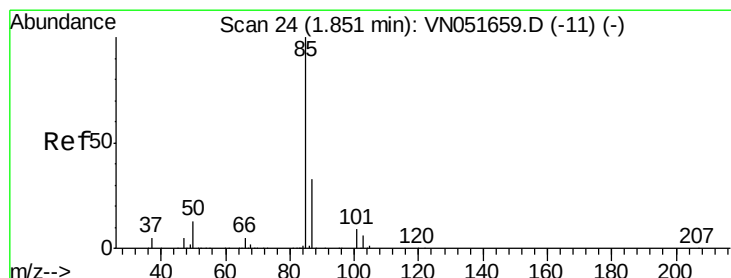
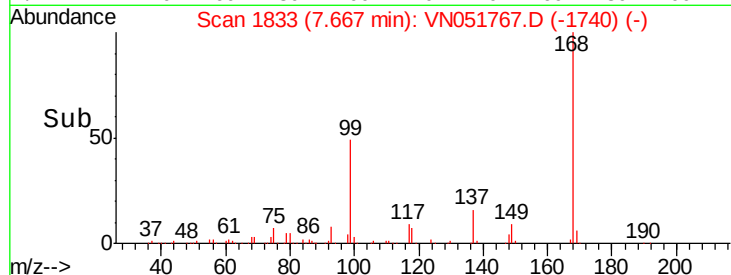
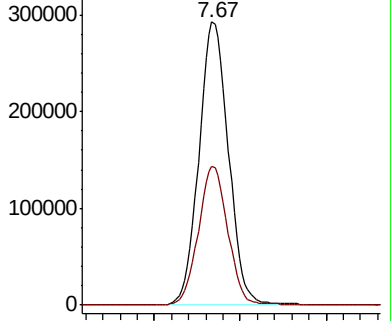
168 100

99 49.0 40.4 60.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#2

Dichlorodifluoromethane

Concen: 1.160 ug/l

RT: 1.85 min Scan# 23

Delta R.T. -0.00 min

Lab File: VN051767.D

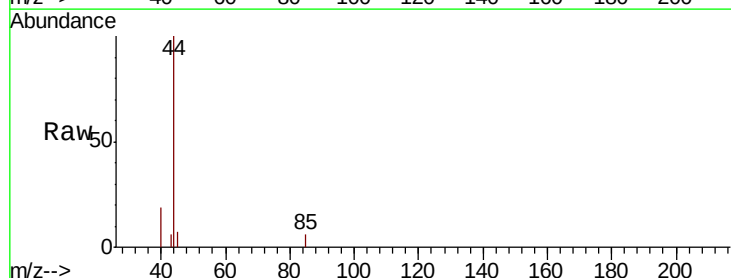
Acq: 9 Oct 2018 23:05

Tgt Ion: 85 Resp: 99

Ion Ratio Lower Upper

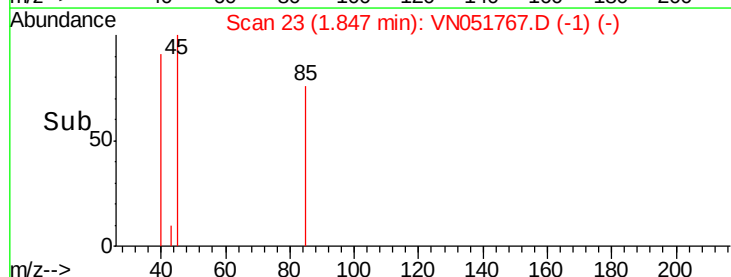
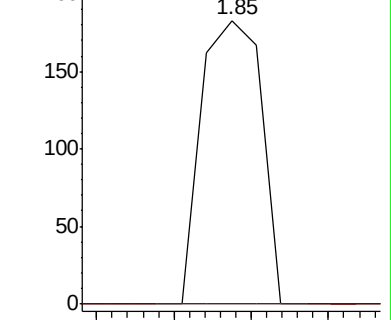
85 100

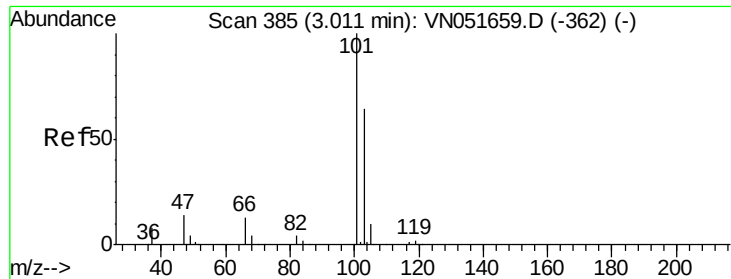
87 0.0 16.4 49.4#



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO



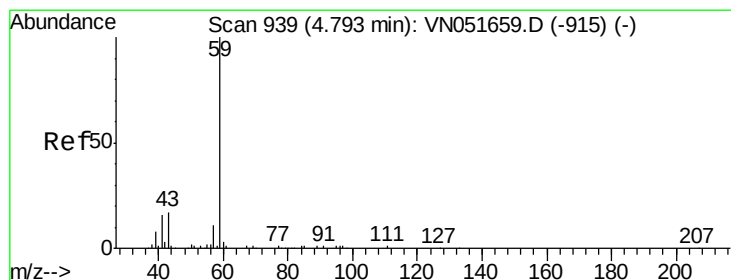
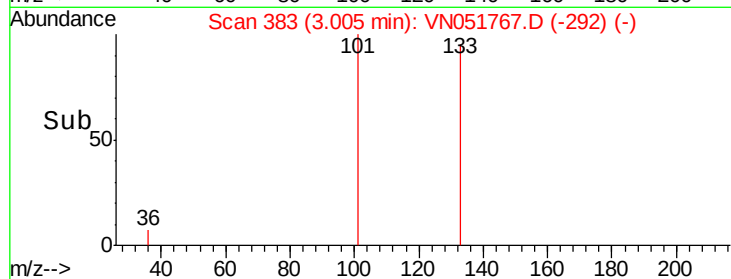
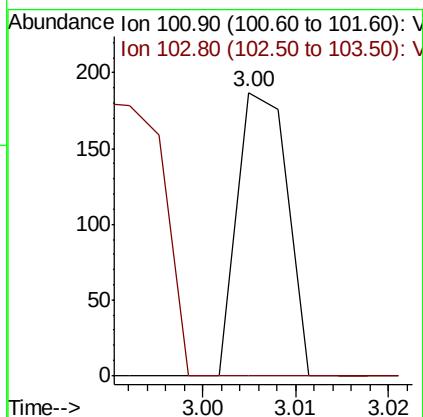
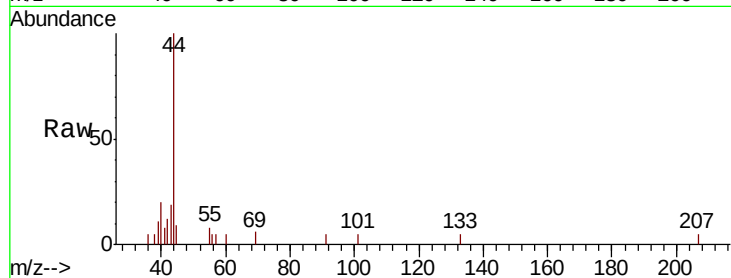


#7

Trichlorofluoromethane
Concen: Below Cal
RT: 3.00 min Scan# 383
Delta R.T. -0.01 min
Lab File: VN051767.D
Acq: 9 Oct 2018 23:05

Instrument :
MSVOA_N
ClientSampleId :
PB113645ZHE#07

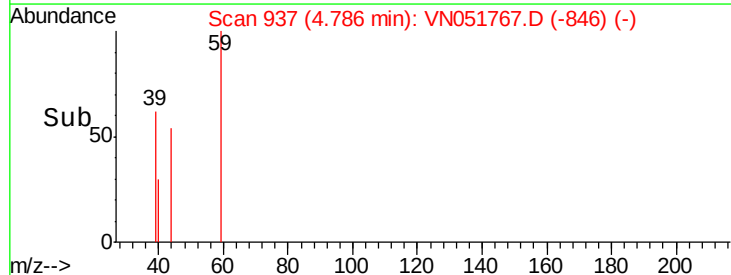
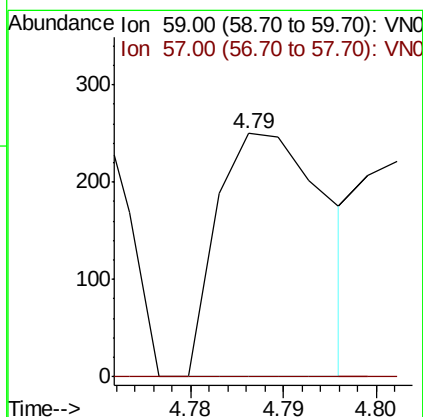
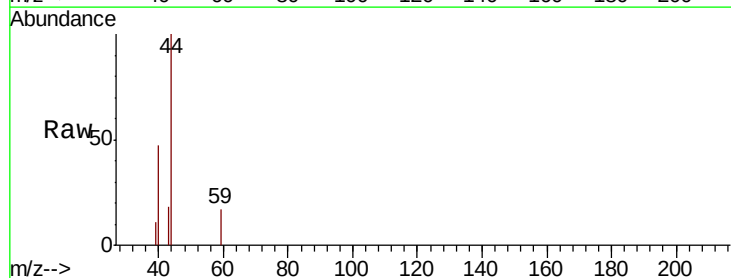
Tot Ion:101 Resp: 70
Ion Ratio Lower Upper
101 100
103 0.0 51.1 76.7#

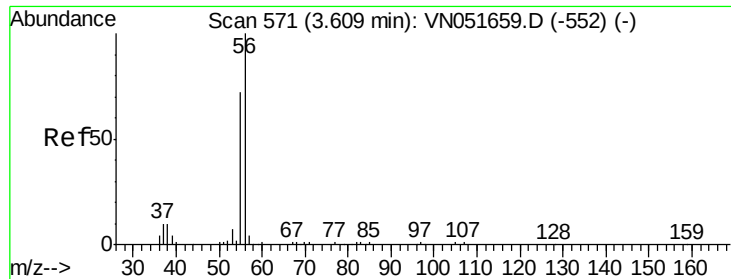


#11

Tert butyl alcohol
Concen: 0.328 ug/l
RT: 4.79 min Scan# 937
Delta R.T. -0.01 min
Lab File: VN051767.D
Acq: 9 Oct 2018 23:05

Tgt Ion: 59 Resp: 205
Ion Ratio Lower Upper
59 100
57 0.0 8.1 12.1#





#13

Acrolein

Concen: Below Cal

RT: 3.62 min Scan# 573

Delta R.T. 0.01 min

Lab File: VN051767.D

Acq: 9 Oct 2018 23:05

Instrument :

MSVOA_N

ClientSampleId :

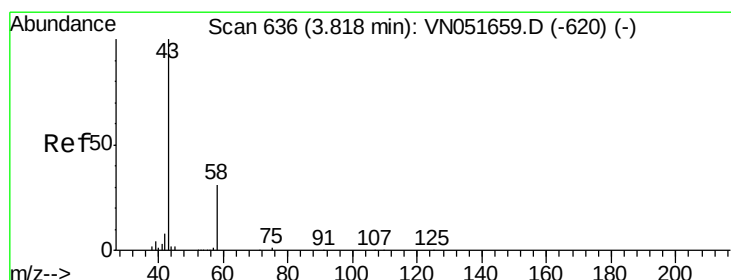
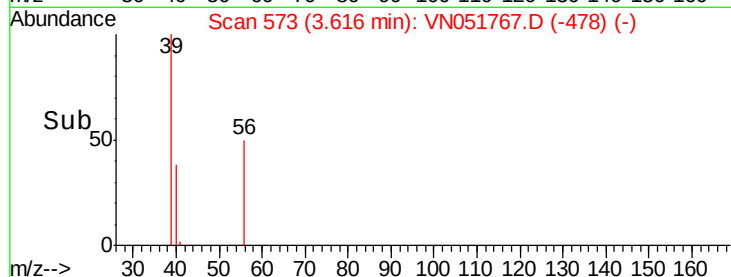
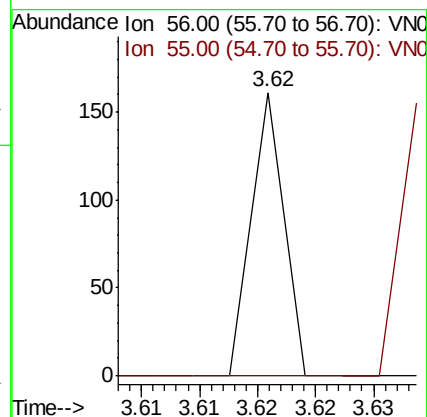
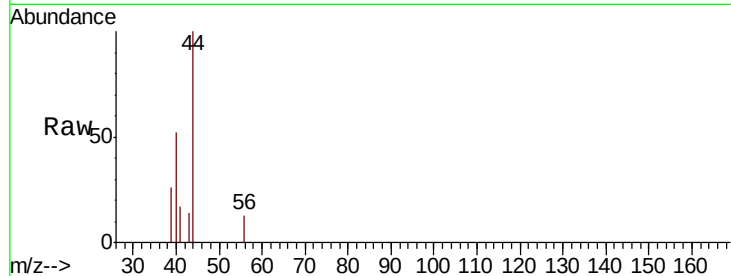
PB113645ZHE#07

Tot Ion: 56 Resp: 31

Ion Ratio Lower Upper

56 100

55 319.4 57.5 86.3#



#16

Acetone

Concen: Below Cal

RT: 3.83 min Scan# 639

Delta R.T. 0.01 min

Lab File: VN051767.D

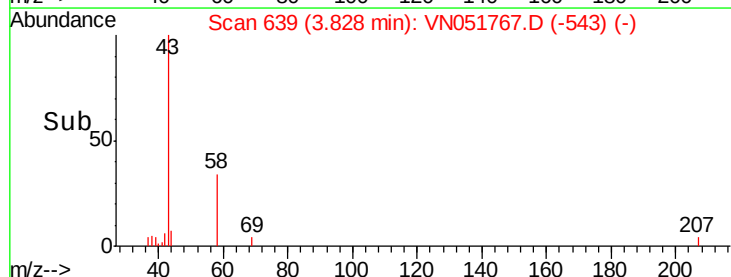
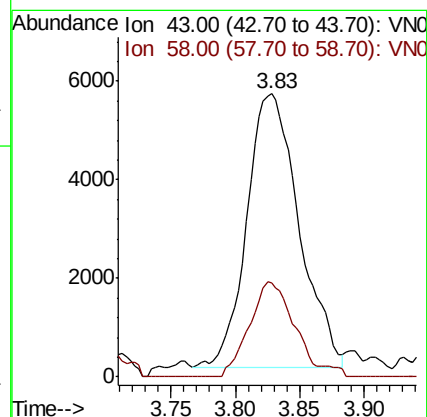
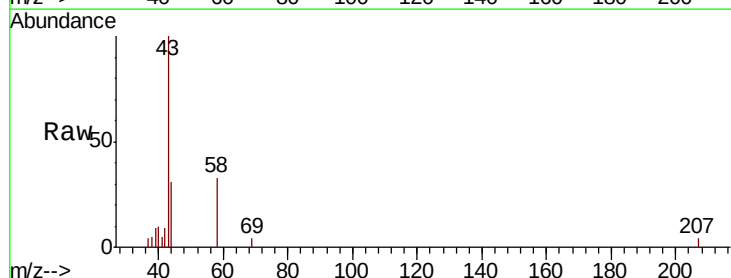
Acq: 9 Oct 2018 23:05

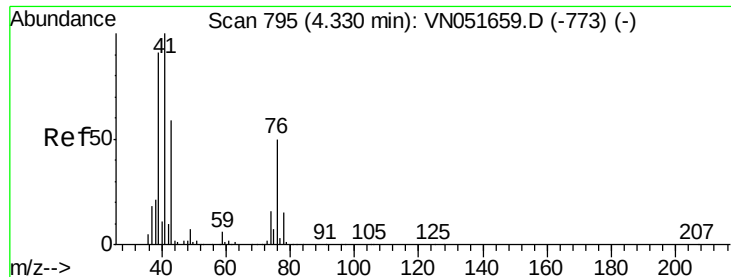
Tgt Ion: 43 Resp: 15633

Ion Ratio Lower Upper

43 100

58 34.4 24.3 36.5

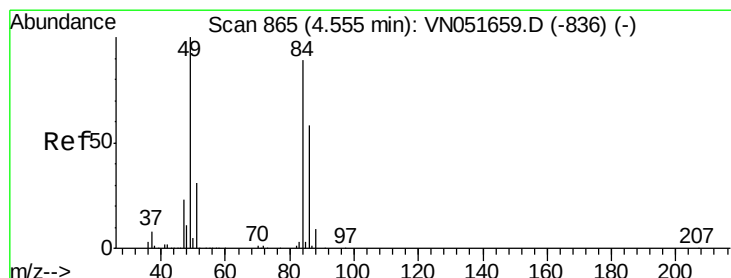
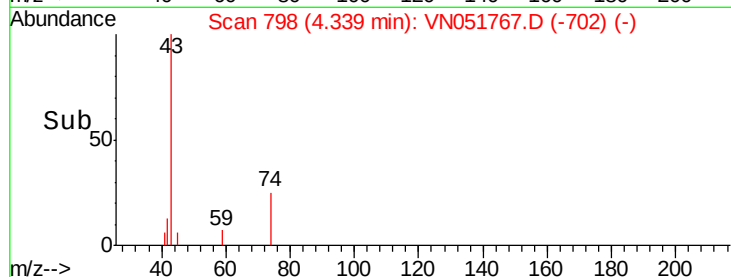
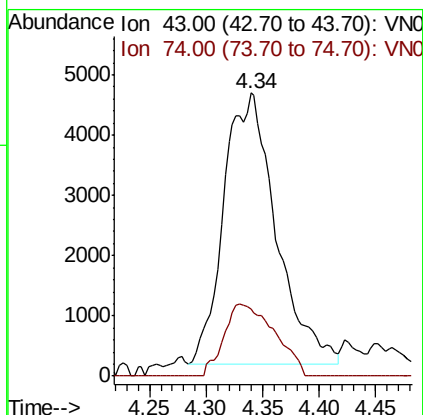
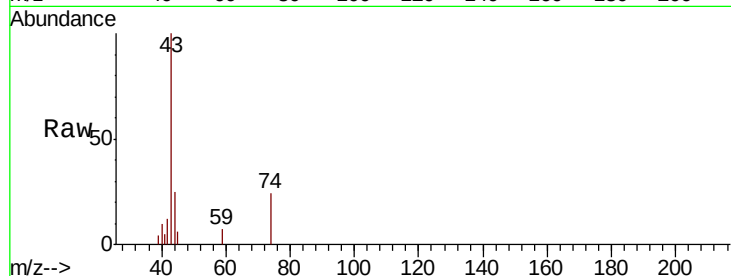




#18
Methyl Acetate
Concen: 2.868 ug/l
RT: 4.34 min Scan# 798
Delta R.T. 0.01 min
Lab File: VN051767.D
Acq: 9 Oct 2018 23:05

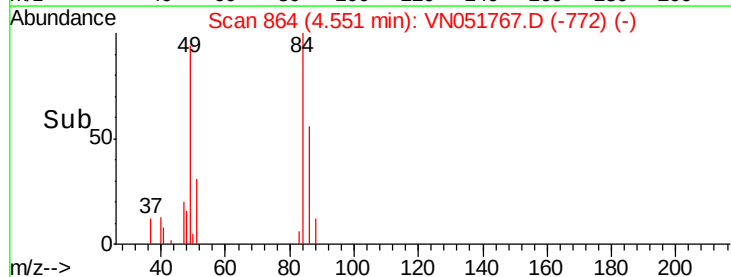
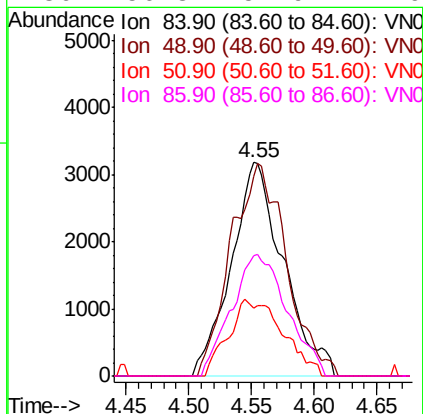
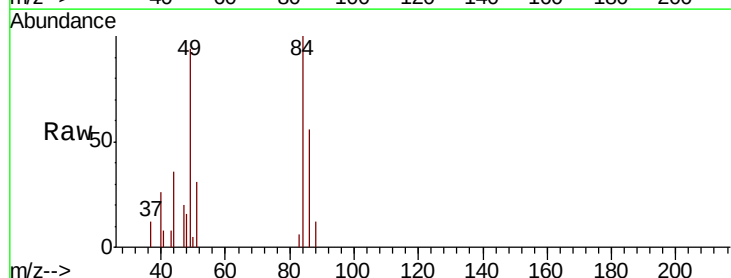
Instrument :
MSVOA_N
ClientSampleId :
PB113645ZHE#07

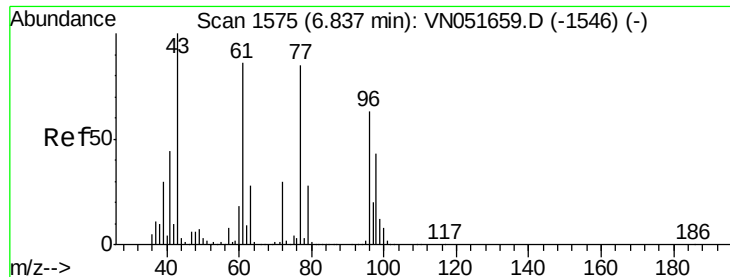
Tot Ion: 43 Resp: 14575
Ion Ratio Lower Upper
43 100
74 25.5 21.5 32.3



#20
Methylene Chloride
Concen: 1.215 ug/l
RT: 4.55 min Scan# 864
Delta R.T. -0.00 min
Lab File: VN051767.D
Acq: 9 Oct 2018 23:05

Tgt Ion: 84 Resp: 9205
Ion Ratio Lower Upper
84 100
49 93.6 89.5 134.3
51 31.5 27.4 41.0
86 56.3 51.9 77.9





#25

2-Butanone

Concen: 1.141 ug/l

RT: 6.84 min Scan# 1575

Delta R.T. 0.00 min

Lab File: VN051767.D

Acq: 9 Oct 2018 23:05

Instrument :

MSVOA_N

ClientSampleId :

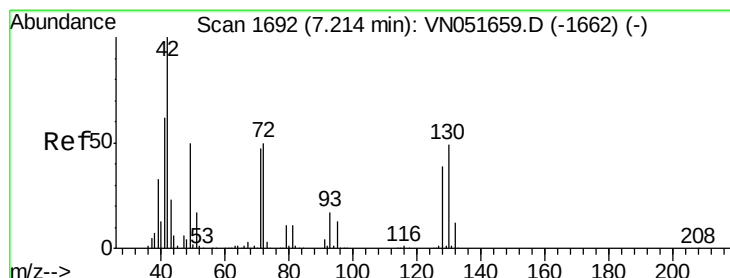
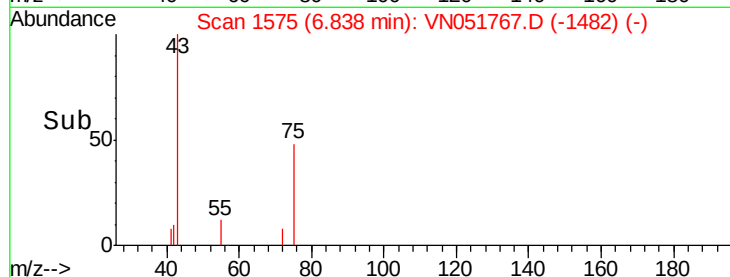
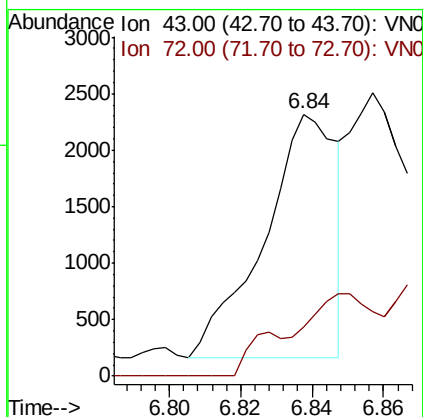
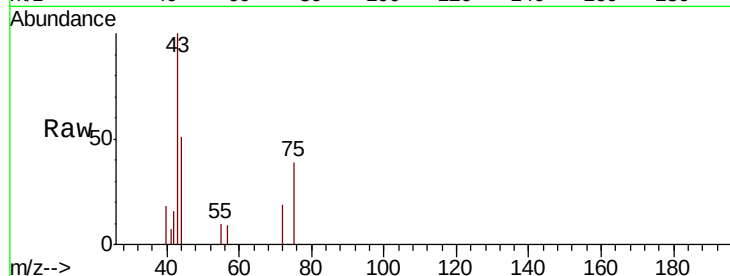
PB113645ZHE#07

Tot Ion: 43 Resp: 3034

Ion Ratio Lower Upper

43 100

72 20.0 24.2 36.2#



#29

Tetrahydrofuran

Concen: 0.427 ug/l

RT: 7.21 min Scan# 1692

Delta R.T. 0.00 min

Lab File: VN051767.D

Acq: 9 Oct 2018 23:05

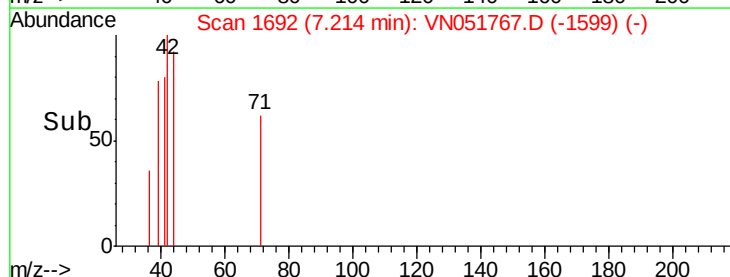
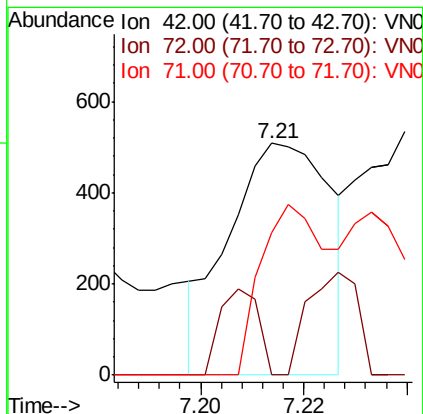
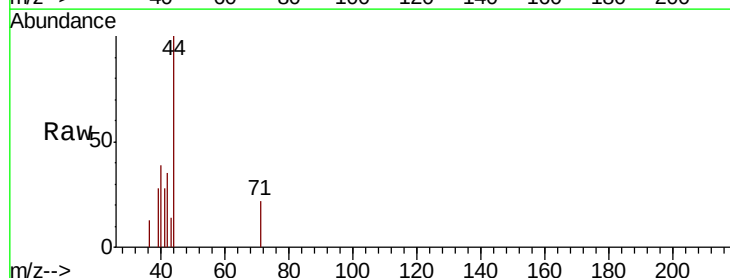
Tgt Ion: 42 Resp: 697

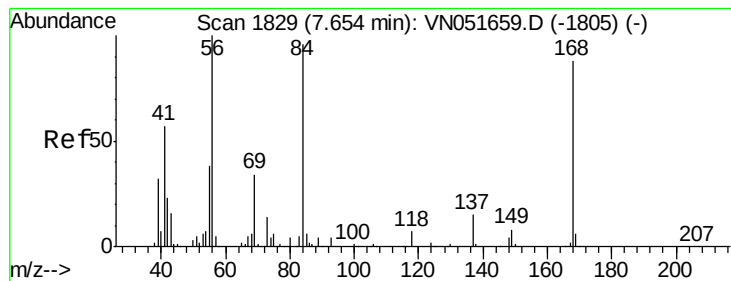
Ion Ratio Lower Upper

42 100

72 14.1 40.1 60.1#

71 49.8 38.0 57.0





#31

Cyclohexane

Concen: 1.080 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. 0.01 min

Lab File: VN051767.D

Acq: 9 Oct 2018 23:05

Instrument :

MSVOA_N

ClientSampleId :

PB113645ZHE#07

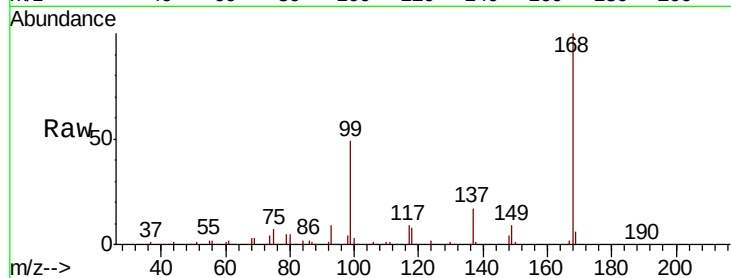
Tot Ion: 56 Resp: 13495

Ion Ratio Lower Upper

56 100

69 158.7 27.5 41.3#

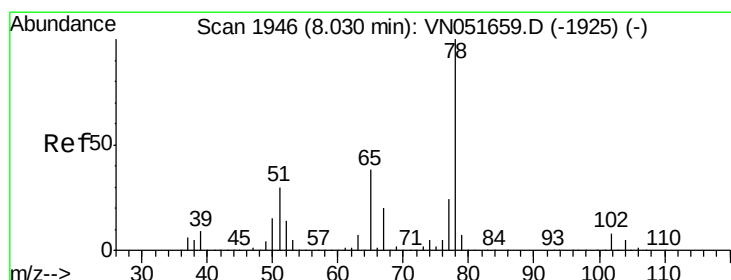
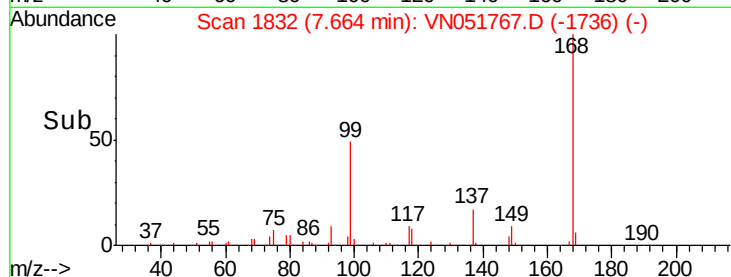
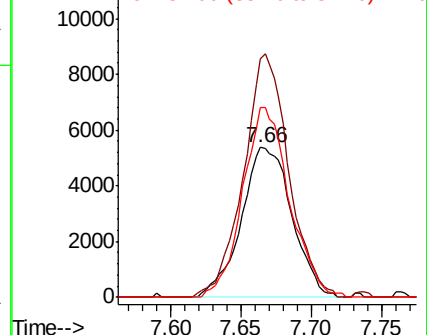
84 126.8 76.7 115.1#



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# 1946

Delta R.T. 0.00 min

Lab File: VN051767.D

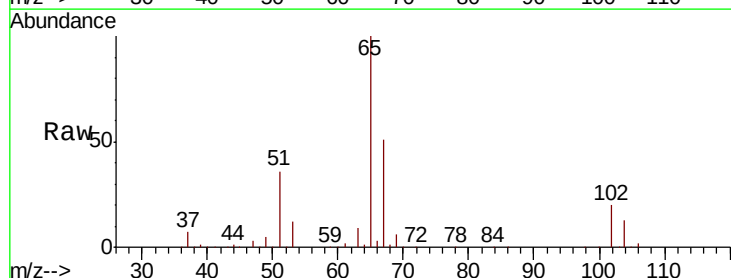
Acq: 9 Oct 2018 23:05

Tgt Ion: 65 Resp: 414187

Ion Ratio Lower Upper

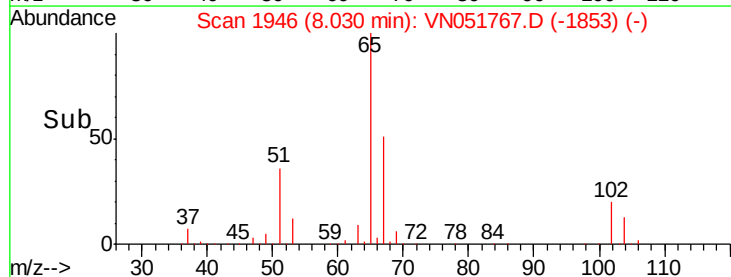
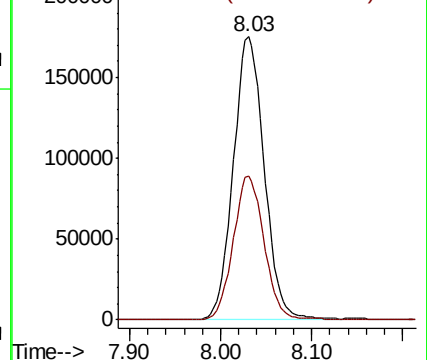
65 100

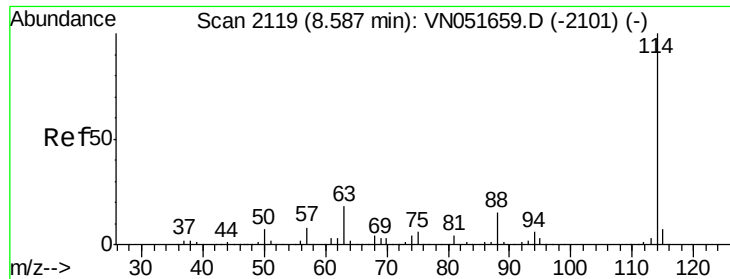
67 50.7 0.0 103.6



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

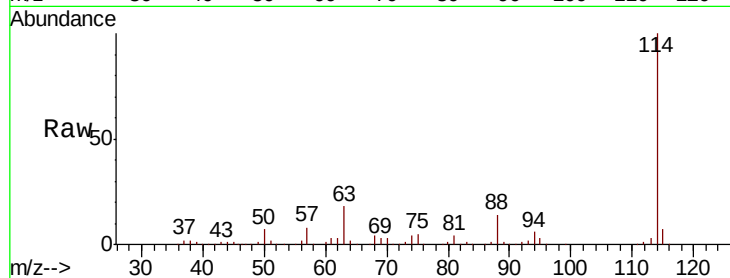




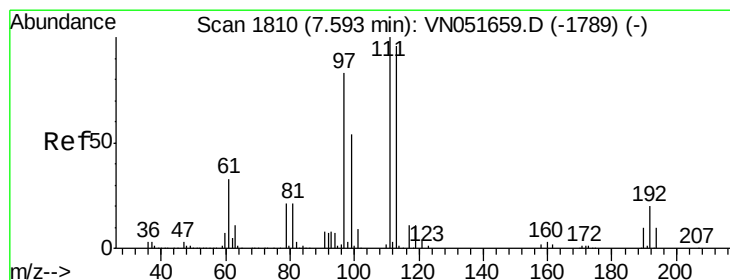
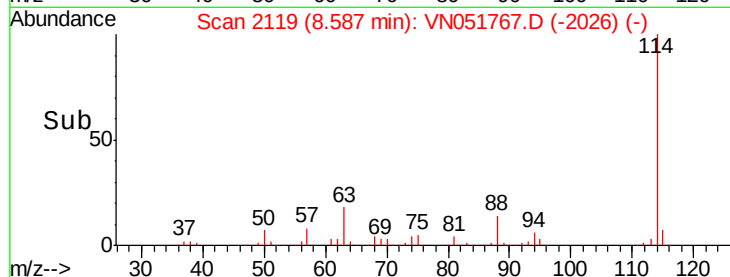
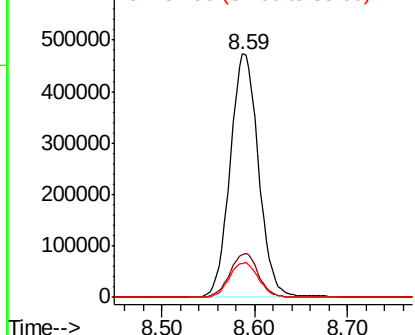
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN051767.D
 Acq: 9 Oct 2018 23:05

Instrument :
 MSVOA_N
 ClientSampleId :
 PB113645ZHE#07

Tot Ion:114 Resp: 1006723
 Ion Ratio Lower Upper
 114 100
 63 17.7 0.0 36.2
 88 14.0 0.0 30.2

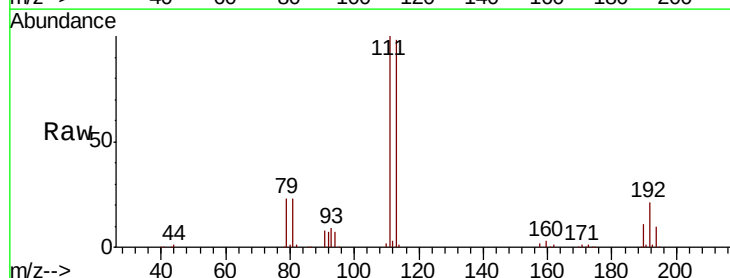


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

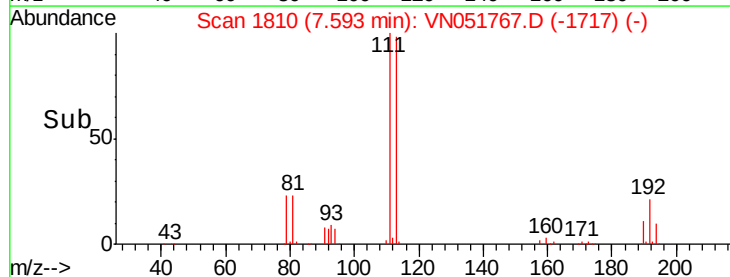
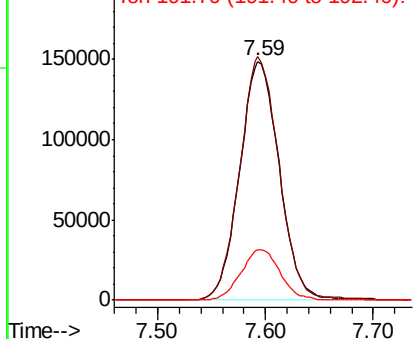


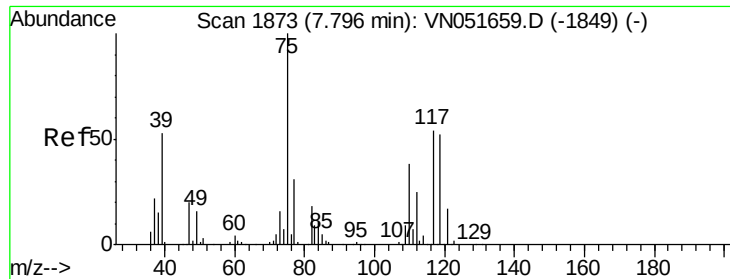
#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN051767.D
 Acq: 9 Oct 2018 23:05

Tgt Ion:113 Resp: 378100
 Ion Ratio Lower Upper
 113 100
 111 100.6 81.8 122.8
 192 21.1 16.5 24.7



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

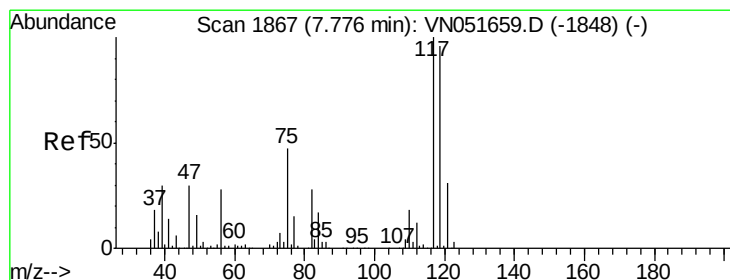
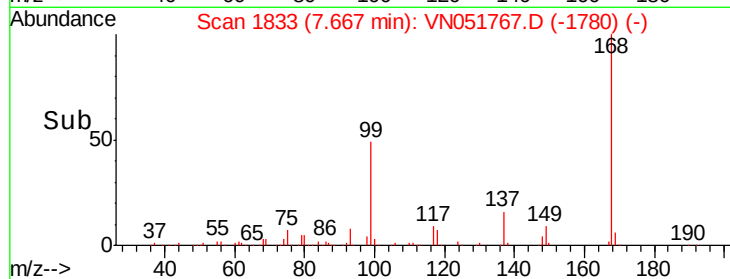
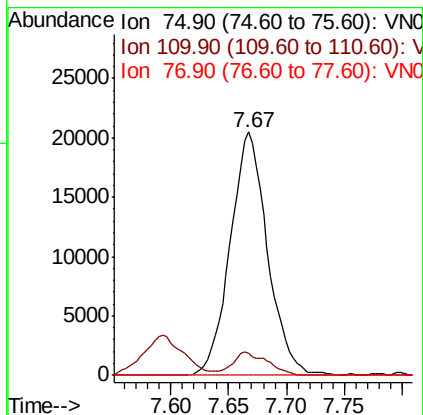
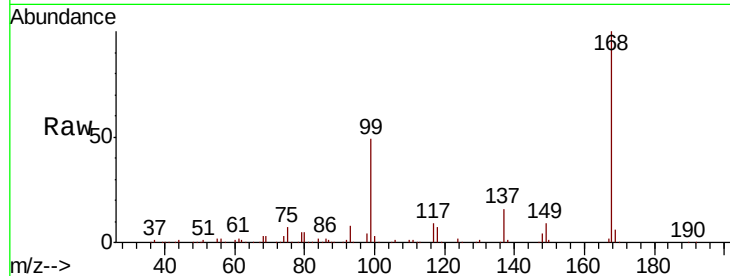




#36
 1,1-Dichloropropene
 Concen: 4.344 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.13 min
 Lab File: VN051767.D
 Acq: 9 Oct 2018 23:05

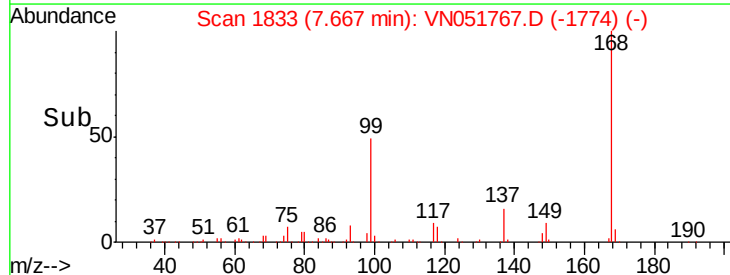
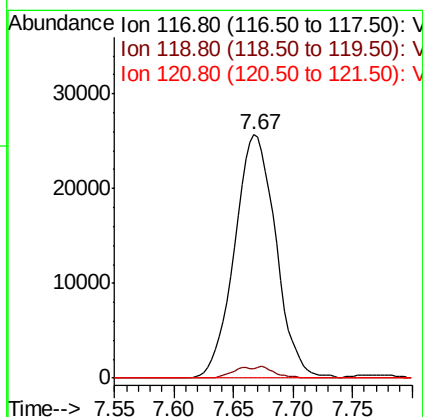
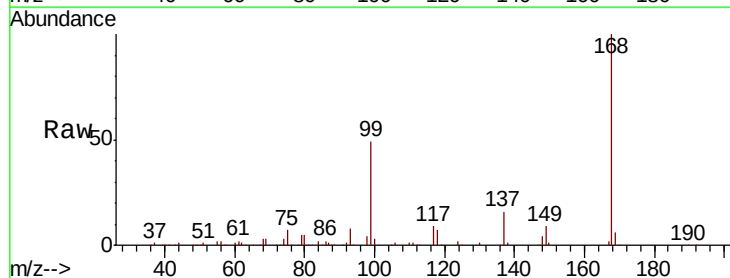
Instrument :
 MSVOA_N
 ClientSampleId :
 PB113645ZHE#07

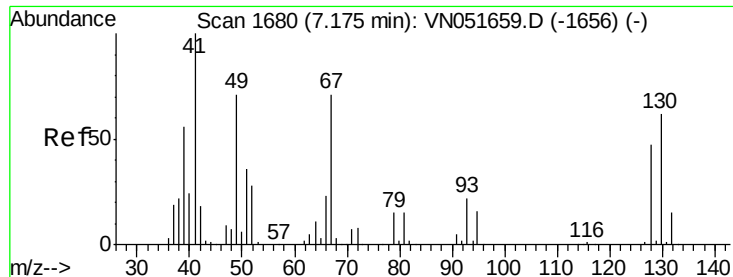
Tot Ion	75	Resp	45708
Ion Ratio	Lower	Upper	
75	100		
110	9.1	19.3	57.8#
77	0.0	24.7	37.1#



#38
 Carbon Tetrachloride
 Concen: 4.887 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.11 min
 Lab File: VN051767.D
 Acq: 9 Oct 2018 23:05

Tgt Ion	117	Resp	61710
Ion Ratio	Lower	Upper	
117	100		
119	3.8	77.0	115.6#
121	0.0	25.0	37.6#

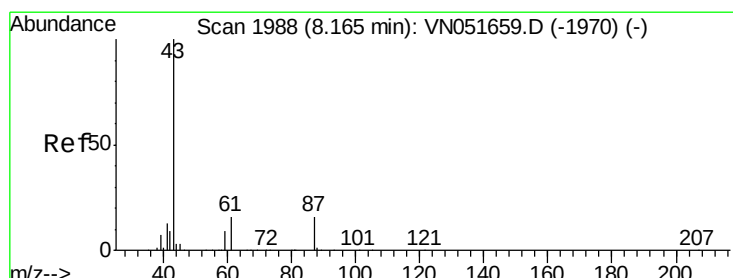
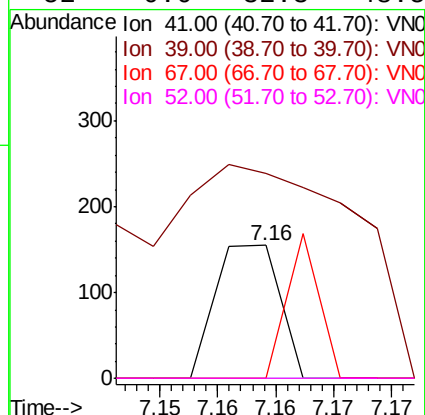
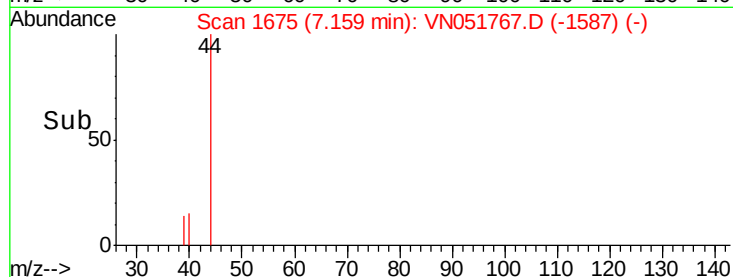
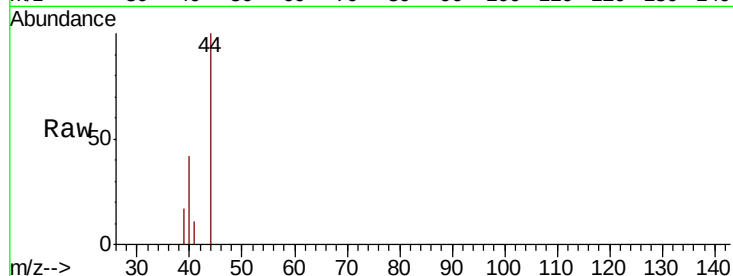




#41
Methacrylonitrile
Concen: Below Cal
RT: 7.16 min Scan# 1675
Delta R.T. -0.02 min
Lab File: VN051767.D
Acq: 9 Oct 2018 23:05

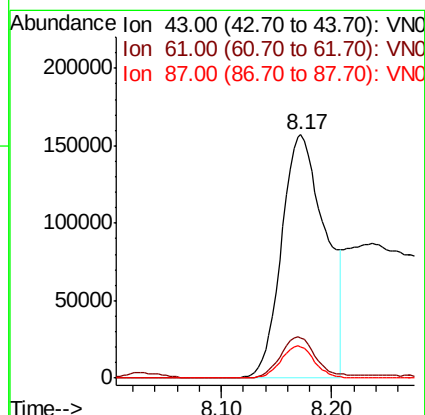
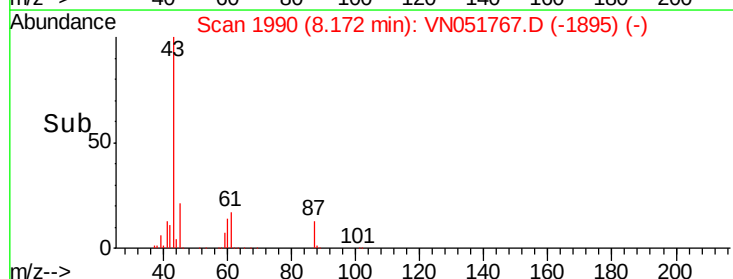
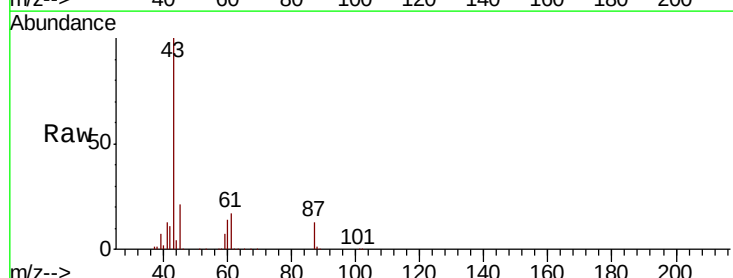
Instrument :
MSVOA_N
ClientSampleId :
PB113645ZHE#07

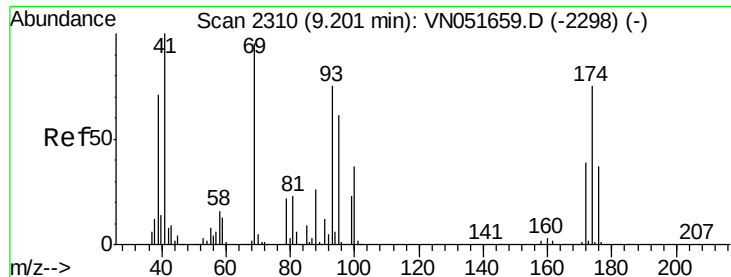
Tot Ion: 41 Resp: 60
Ion Ratio Lower Upper
41 100
39 581.7 53.9 80.9#
67 55.0 78.1 117.1#
52 0.0 32.3 48.5#



#43
Isopropyl Acetate
Concen: 37.887 ug/l
RT: 8.17 min Scan# 1990
Delta R.T. 0.01 min
Lab File: VN051767.D
Acq: 9 Oct 2018 23:05

Tgt Ion: 43 Resp: 433520
Ion Ratio Lower Upper
43 100
61 13.9 15.8 23.6#
87 10.1 12.6 19.0#

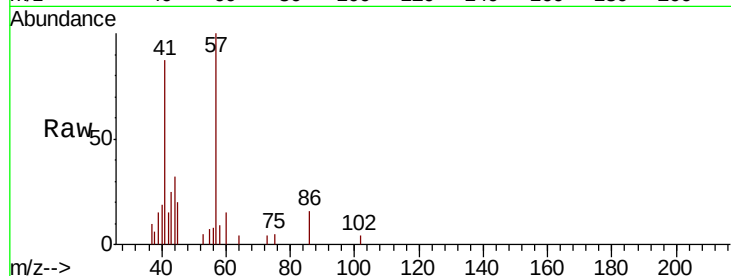




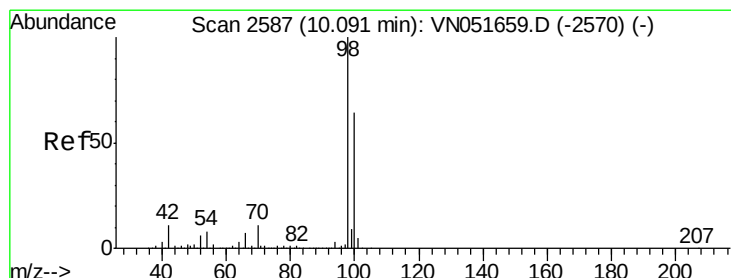
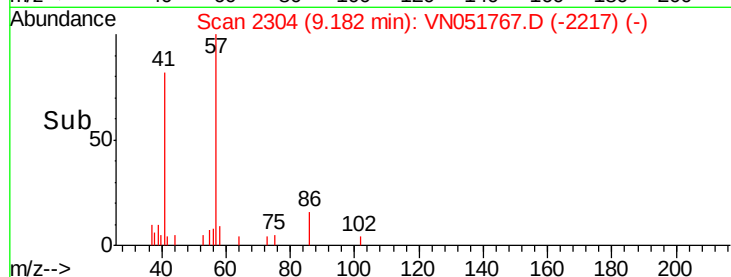
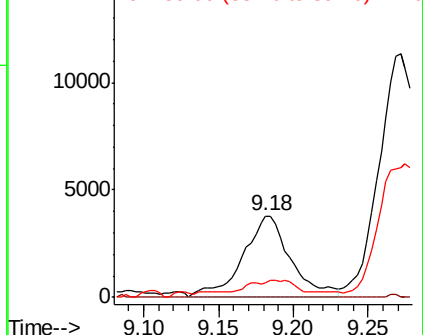
#48
Methvl methacrylate
Concen: 1.619 ug/l
RT: 9.18 min Scan# 2304
Delta R.T. -0.02 min
Lab File: VN051767.D
Acq: 9 Oct 2018 23:05

Instrument :
MSVOA_N
ClientSampleId :
PB113645ZHE#07

Tot Ion: 41 Resp: 8464
Ion Ratio Lower Upper
41 100
69 0.0 78.6 118.0#
39 6.9 59.2 88.8#

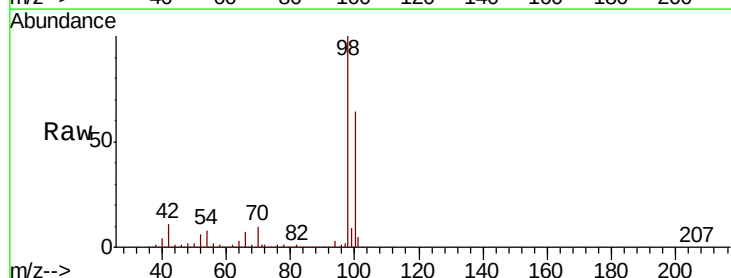


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

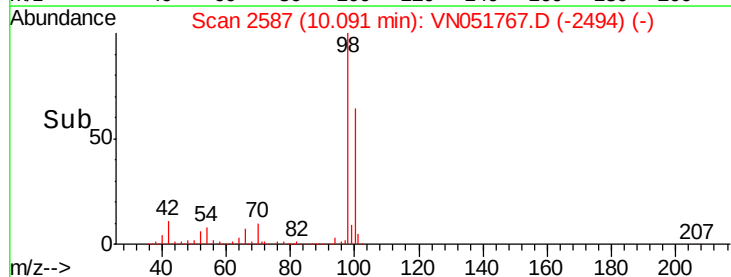
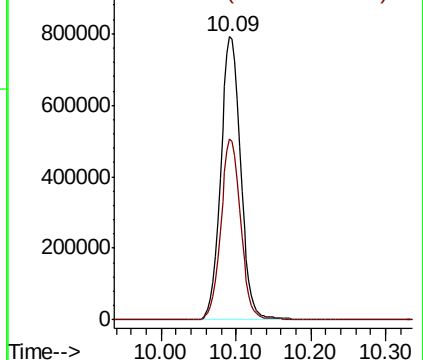


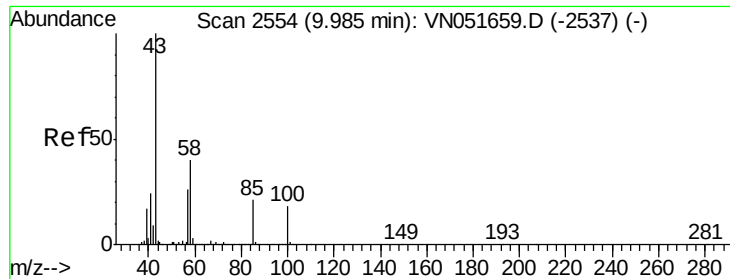
#50
Toluene-d8
Concen: N.D. ug/l
RT: 10.09 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN051767.D
Acq: 9 Oct 2018 23:05

Tgt Ion: 98 Resp: 1458287
Ion Ratio Lower Upper
98 100
100 63.4 51.5 77.3



Abundance Ion 98.00 (97.70 to 98.70): VN0
Ion 100.00 (99.70 to 100.70): VN0

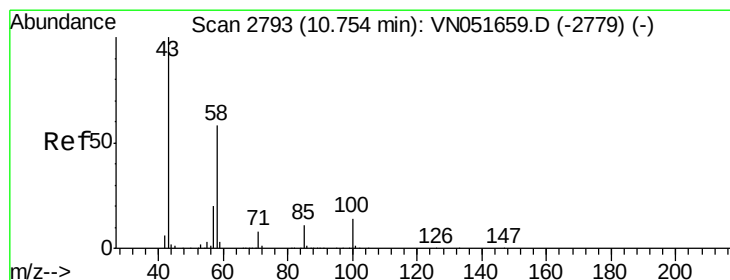
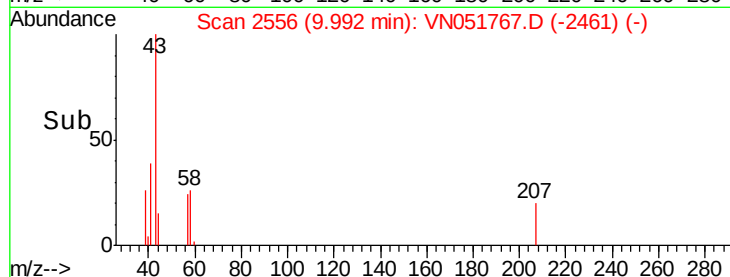
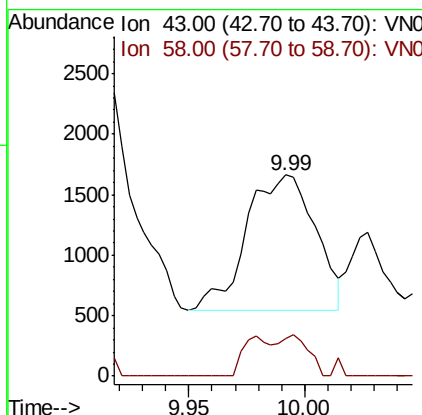
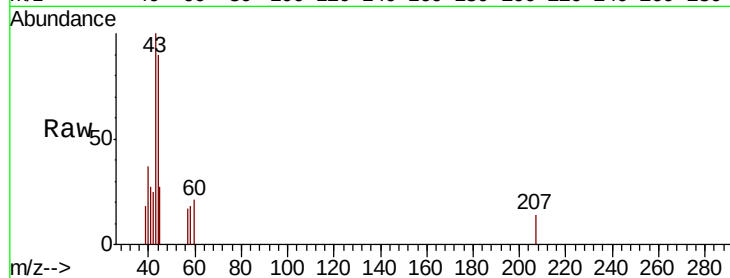




#51
 4-Methyl-2-Pentanone
 Concen: 0.397 ug/l
 RT: 9.99 min Scan# 2556
 Delta R.T. 0.01 min
 Lab File: VN051767.D
 Acq: 9 Oct 2018 23:05

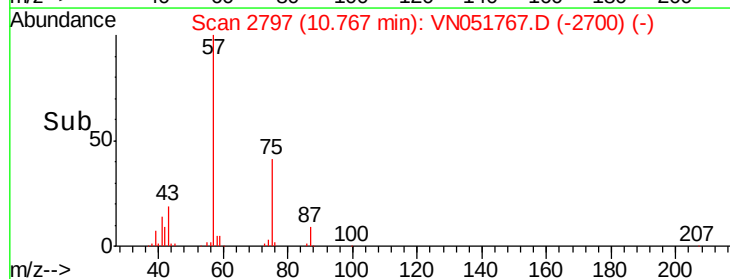
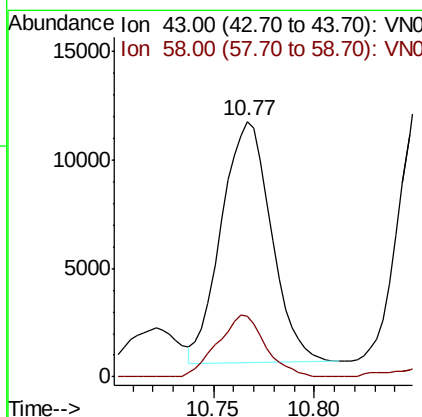
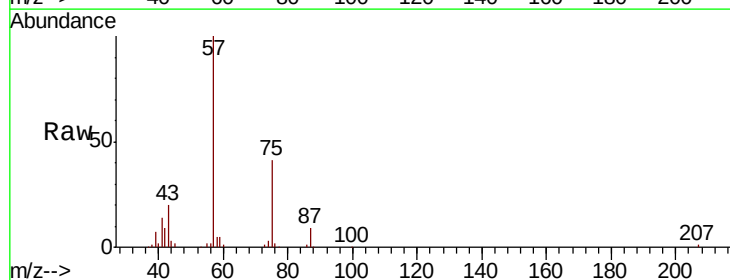
Instrument :
 MSVOA_N
 ClientSampleId :
 PB113645ZHE#07

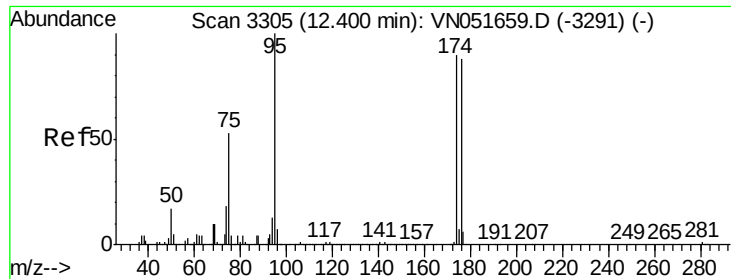
Tot Ion: 43 Resp: 2303
 Ion Ratio Lower Upper
 43 100
 58 0.0 32.2 48.2#



#59
 2-Hexanone
 Concen: 4.873 ug/l
 RT: 10.77 min Scan# 2797
 Delta R.T. 0.01 min
 Lab File: VN051767.D
 Acq: 9 Oct 2018 23:05

Tgt Ion: 43 Resp: 19188
 Ion Ratio Lower Upper
 43 100
 58 24.5 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: VN051767.D

Acq: 9 Oct 2018 23:05

Instrument :

MSVOA_N

ClientSampleId :

PB113645ZHE#07

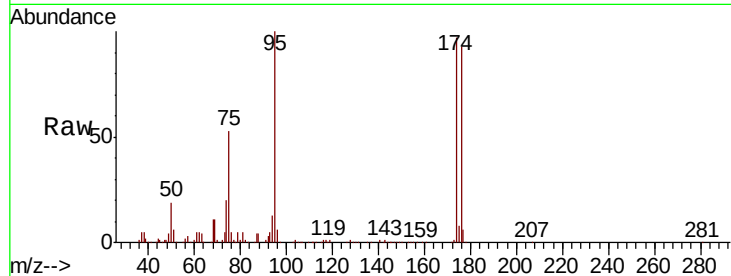
Tot Ion: 95 Resp: 414998

Ion Ratio Lower Upper

95 100

174 97.3 0.0 182.8

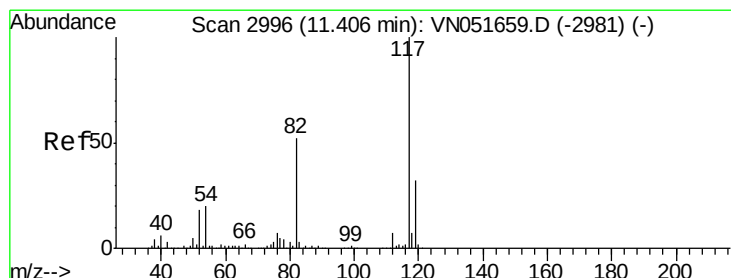
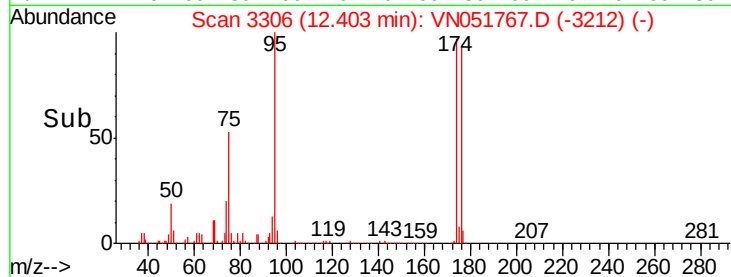
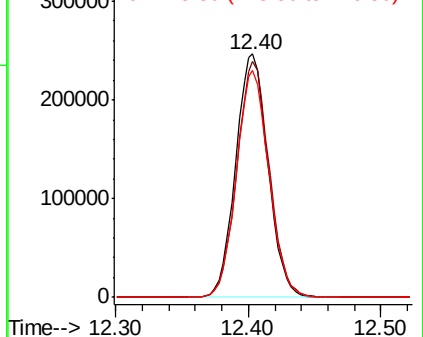
176 93.6 0.0 176.4



Abundance Ion 94.90 (94.60 to 95.60): VN0

Ion 173.80 (173.50 to 174.50): VN0

Ion 175.80 (175.50 to 176.50): VN0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2997

Delta R.T. 0.00 min

Lab File: VN051767.D

Acq: 9 Oct 2018 23:05

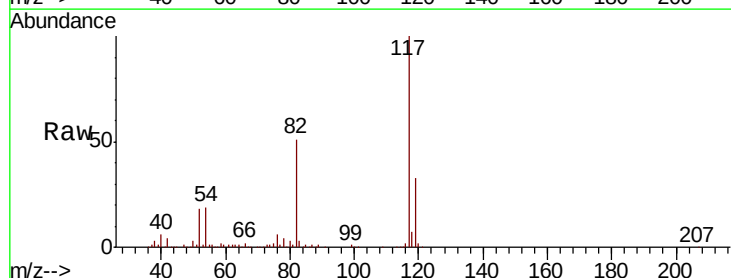
Tgt Ion: 117 Resp: 908734

Ion Ratio Lower Upper

117 100

82 50.7 41.3 61.9

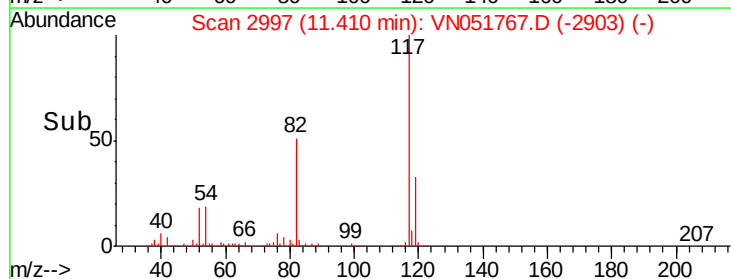
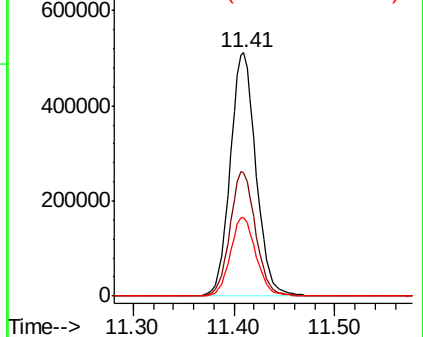
119 32.5 25.9 38.9

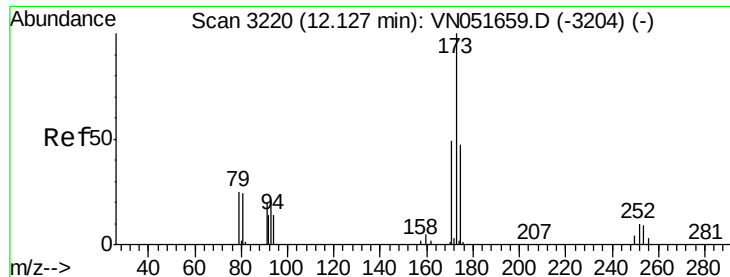


Abundance Ion 116.90 (116.60 to 117.60): VN0

Ion 82.00 (81.70 to 82.70): VN0

Ion 118.90 (118.60 to 119.60): VN0





#71

Bromoform

Concen: 0.532 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.28 min

Lab File: VN051767.D

Acq: 9 Oct 2018 23:05

Instrument :

MSVOA_N

ClientSampleId :

PB113645ZHE#07

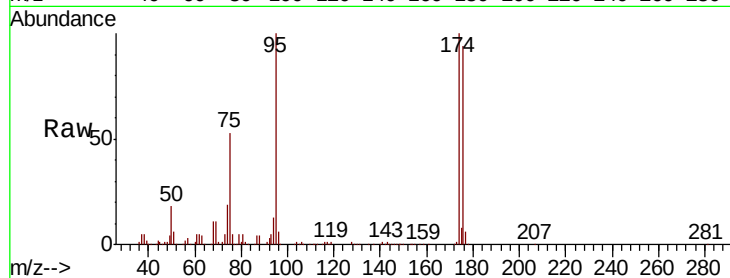
Tot Ion:173 Resp: 3569

Ion Ratio Lower Upper

173 100

175 728.1 24.0 72.0#

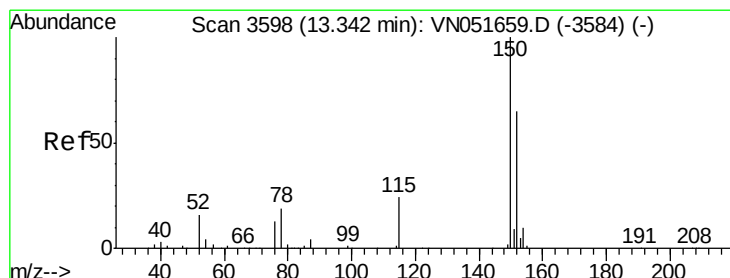
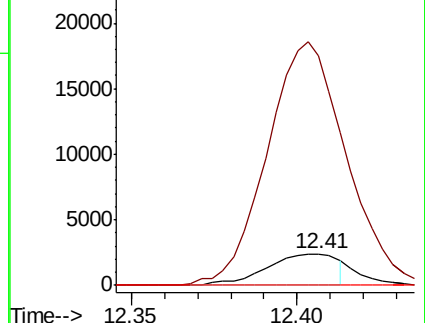
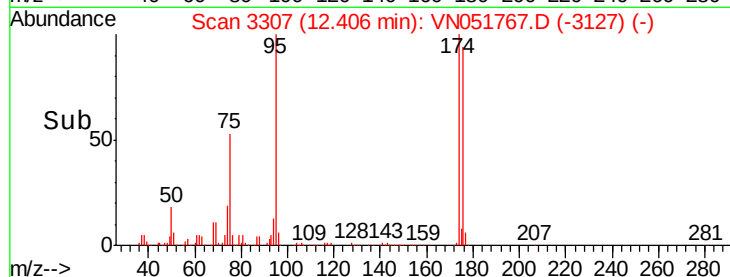
254 0.0 0.1 0.1#



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: VN051767.D

Acq: 9 Oct 2018 23:05

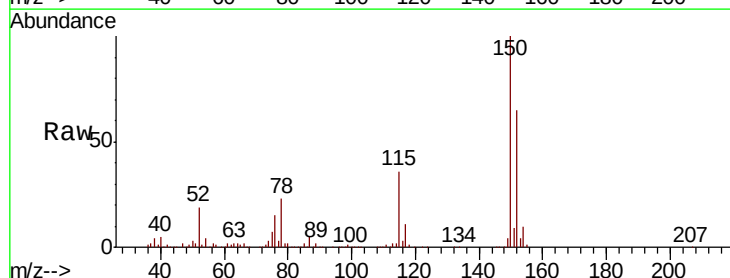
Tgt Ion:152 Resp: 356385

Ion Ratio Lower Upper

152 100

115 55.7 28.6 85.8

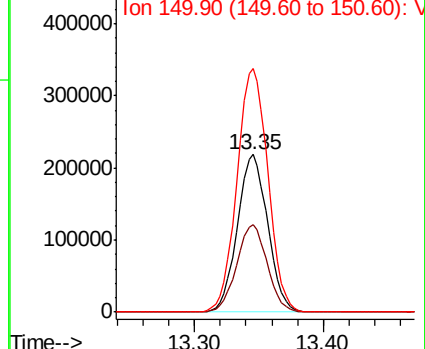
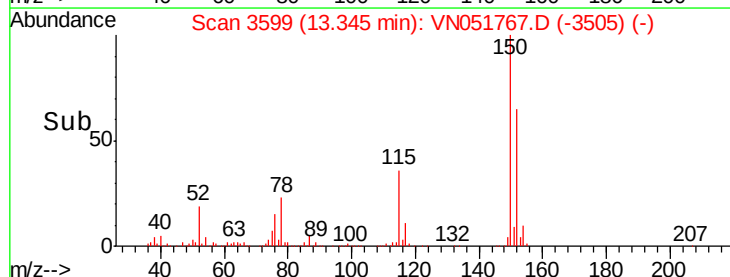
150 157.5 0.0 352.4

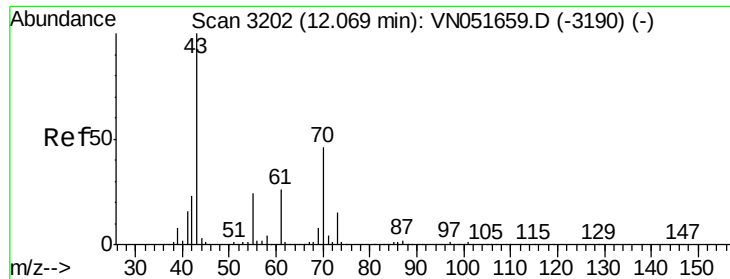


Abundance Ion 151.90 (151.60 to 152.60): V

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# 3201

Delta R.T. -0.00 min

Lab File: VN051767.D

Acq: 9 Oct 2018 23:05

Instrument :

MSVOA_N

ClientSampleId :

PB113645ZHE#07

Tot Ion: 43 Resp: 312

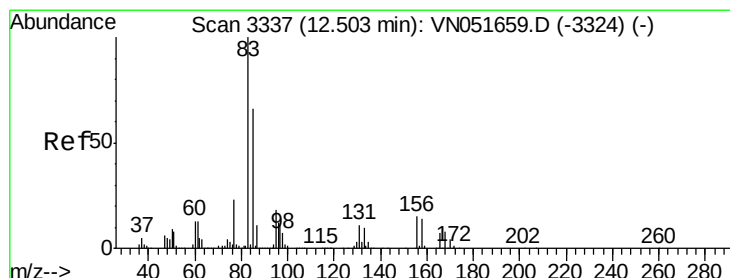
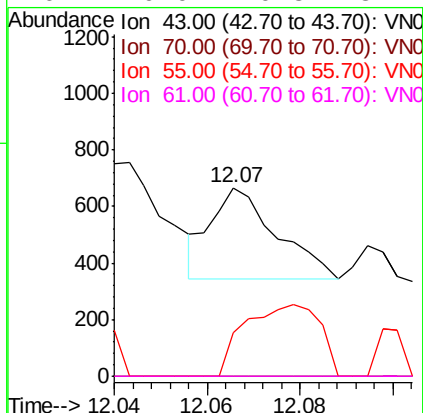
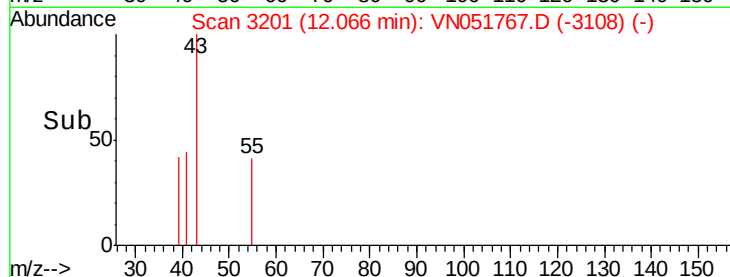
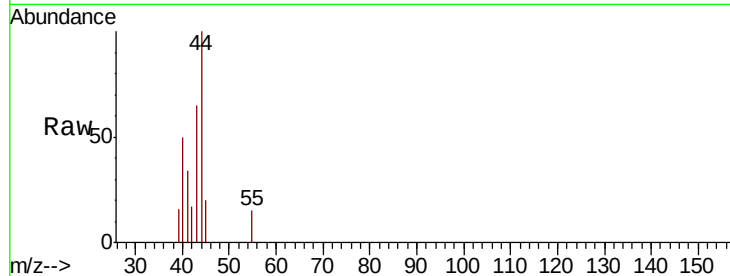
Ion Ratio Lower Upper

43 100

70 0.0 37.1 55.7#

55 91.0 19.1 28.7#

61 0.0 20.8 31.2#



#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.41 min Scan# 3307

Delta R.T. -0.10 min

Lab File: VN051767.D

Acq: 9 Oct 2018 23:05

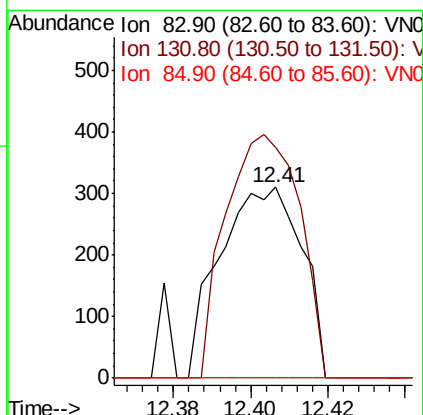
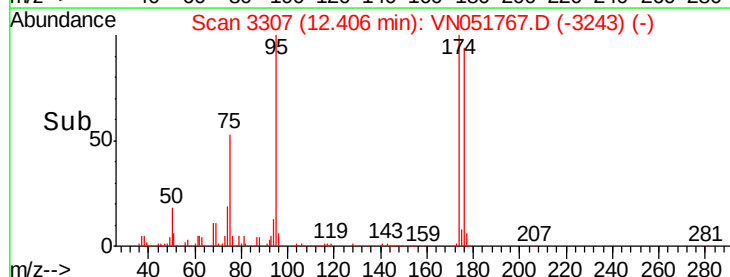
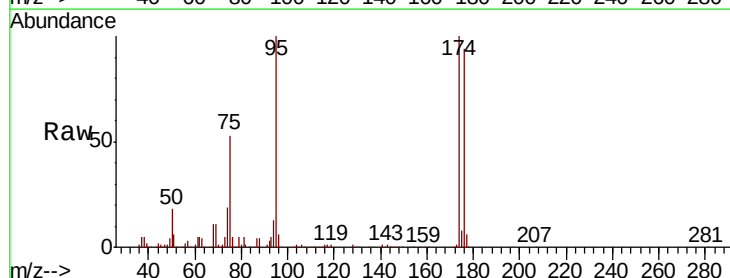
Tgt Ion: 83 Resp: 458

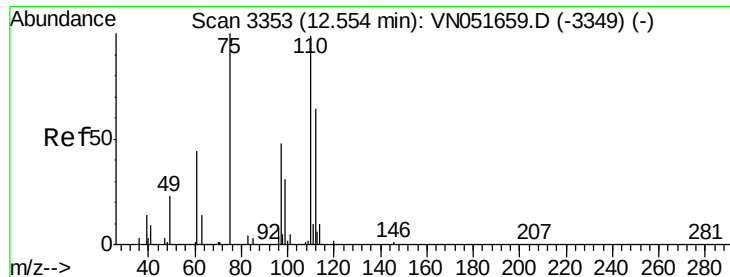
Ion Ratio Lower Upper

83 100

131 115.3 5.7 17.1#

85 0.0 33.0 98.9#





#76

1,2,3-Trichloropropane

Concen: 51.159 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN051767.D

Acq: 9 Oct 2018 23:05

Instrument :

MSVOA_N

ClientSampleId :

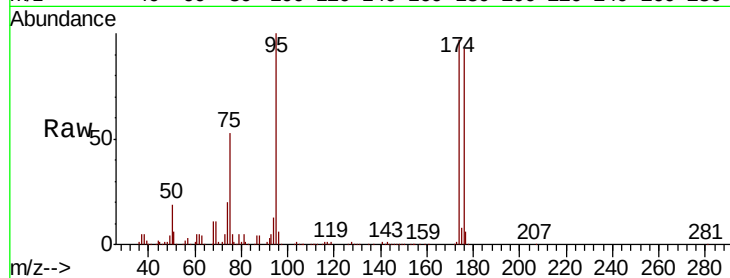
PB113645ZHE#07

Tot Ion: 75 Resp: 226121

Ion Ratio Lower Upper

75 100

77 1.0 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

150000

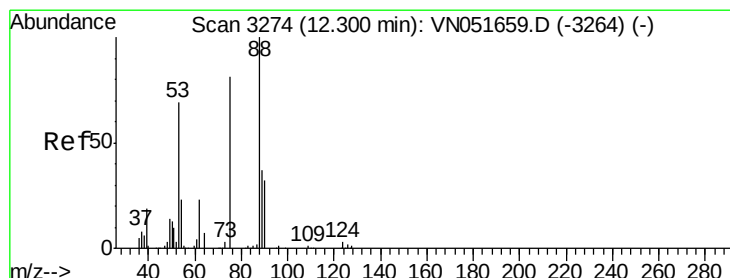
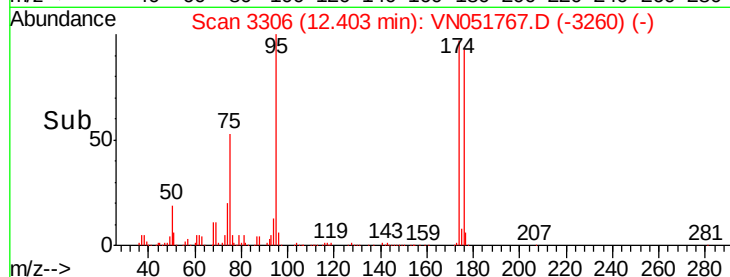
12.40

100000

50000

0

Time--> 12.30 12.40 12.50



#81

trans-1,4-Dichloro-2-butene

Concen: 116.631 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN051767.D

Acq: 9 Oct 2018 23:05

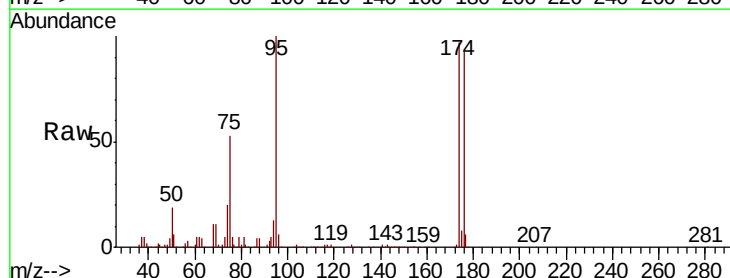
Tgt Ion: 75 Resp: 226121

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): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0

150000

12.40

100000

50000

0

Time--> 12.30 12.40 12.50

