

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN100918\
 Data File : VN051764.D
 Acq On : 9 Oct 2018 21:50
 Operator : MD\SY
 Sample : PB113645ZHE#04
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 23 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 PB113645ZHE#04

Quant Time: Oct 10 03:36:05 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

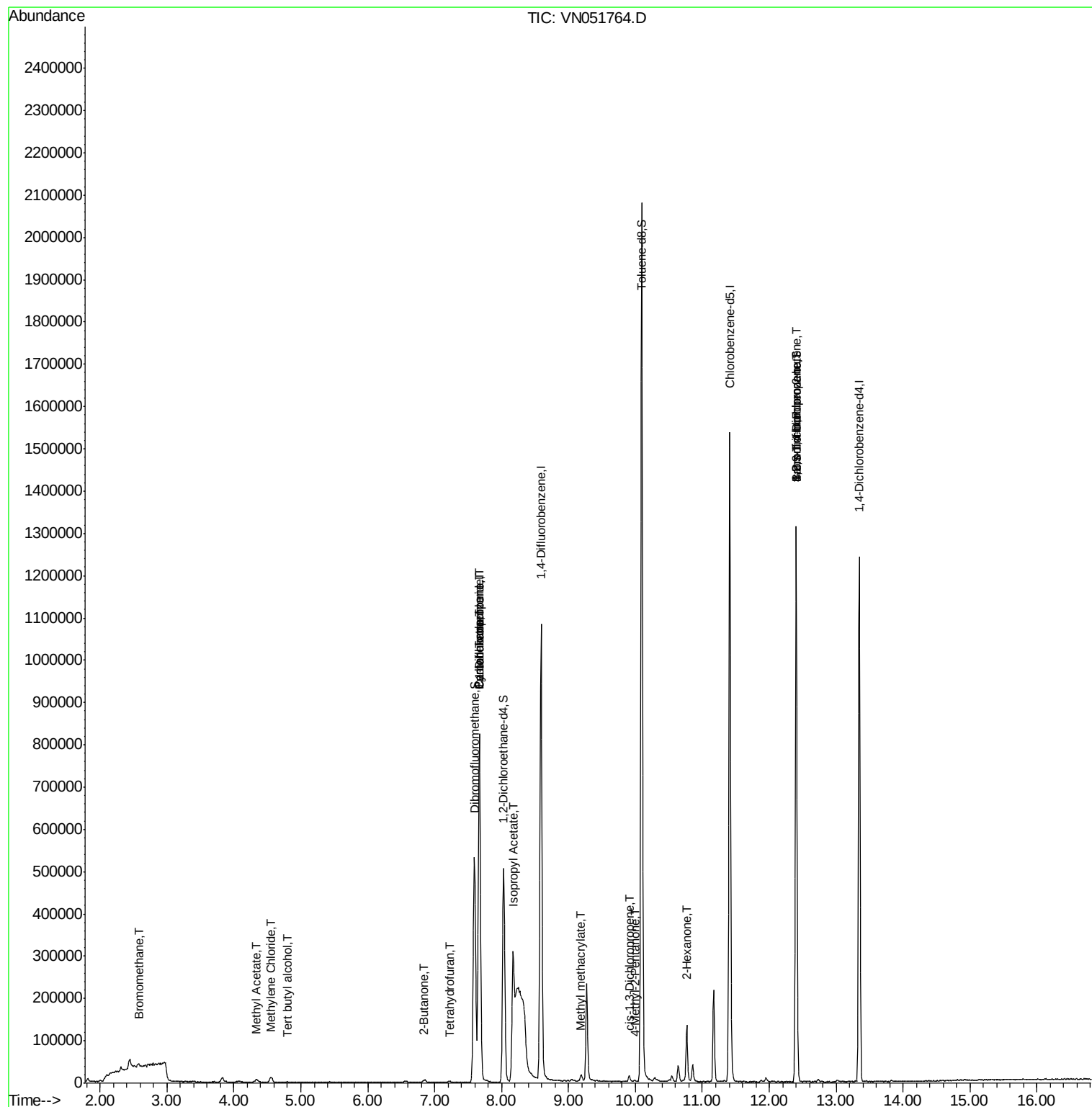
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	729429	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1055236	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	921357	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	347089	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.03	65	435579	45.20	ug/l	0.00
Spiked Amount 50.000			Recovery	=	90.40%	
35) Dibromofluoromethane	7.59	113	392408	48.10	ug/l	0.00
Spiked Amount 50.000			Recovery	=	96.20%	
50) Toluene-d8	10.09	98	1512995	49.71	ug/l	0.00
Spiked Amount 50.000			Recovery	=	99.42%	
62) 4-Bromofluorobenzene	12.40	95	416408	38.65	ug/l	0.00
Spiked Amount 50.000			Recovery	=	77.30%	
Target Compounds						
					Qvalue	
5) Bromomethane	2.57	94	2195	0.218	ug/l	81
7) Trichlorofluoromethane	3.01	101	101	Below Cal	#	18
11) Tert butyl alcohol	4.80	59	399	0.609	ug/l #	73
13) Acrolein	3.61	56	30	Below Cal	#	1
16) Acetone	3.83	43	15911	Below Cal		99
18) Methyl Acetate	4.34	43	11357	2.135	ug/l #	84
20) Methylene Chloride	4.55	84	8935	1.127	ug/l	91
25) 2-Butanone	6.84	43	3371	1.211	ug/l	100
29) Tetrahydrofuran	7.23	42	375	0.220	ug/l #	1
31) Cyclohexane	7.67	56	14208	1.086	ug/l #	45
36) 1,1-Dichloropropene	7.67	75	47897	4.342	ug/l #	49
38) Carbon Tetrachloride	7.67	117	65737	4.967	ug/l #	16
41) Methacrylonitrile	7.17	41	105	Below Cal	#	28
43) Isopropyl Acetate	8.17	43	399551	33.313	ug/l #	90
48) Methyl methacrylate	9.18	41	6506	1.187	ug/l #	25
51) 4-Methyl-2-Pentanone	9.99	43	2088	0.344	ug/l	93
54) cis-1,3-Dichloropropene	9.91	75	2926	0.216	ug/l #	59
59) 2-Hexanone	10.77	43	21249	5.148	ug/l #	54
71) Bromoform	12.40	173	3339	0.491	ug/l #	1
74) N-amyl acetate	12.08	43	511	Below Cal	#	44
75) 1,1,2,2-Tetrachloroethane	12.53	83	100	Below Cal	#	25
76) 1,2,3-Trichloropropane	12.40	75	224615	52.269	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	224615	118.957	ug/l #	14

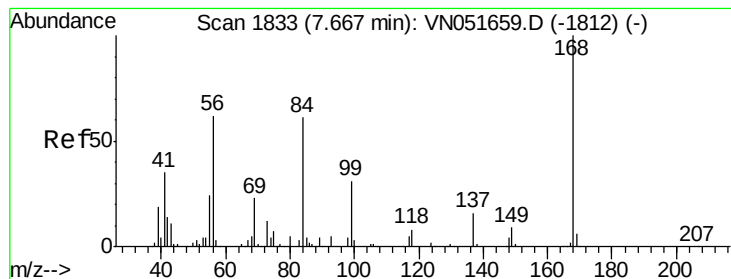
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1834

Delta R.T. 0.00 min

Lab File: VN051764.D

Acq: 9 Oct 2018 21:50

Instrument :

MSVOA_N

ClientSampleId :

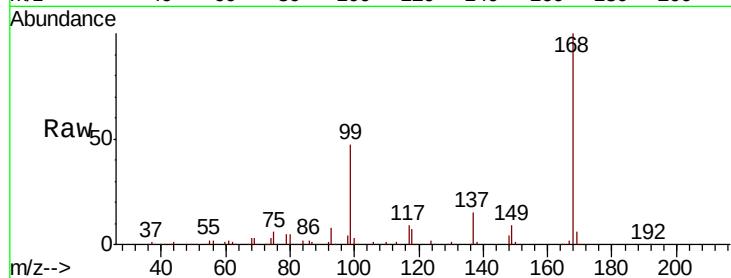
PB113645ZHE#04

Tot Ion:168 Resp: 729429

Ion Ratio Lower Upper

168 100

99 47.5 40.4 60.6



Abundance Ion 167.90 (167.60 to 168.60): VN051764.D (-1740) (-)

Ion 98.90 (98.60 to 99.60): VN051764.D (-1740) (-)

7.67

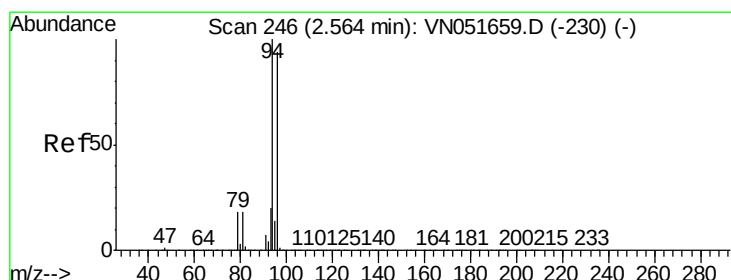
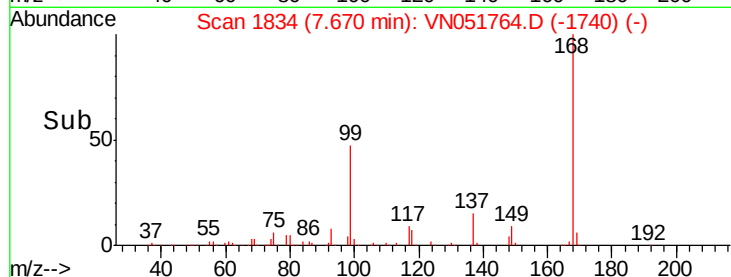
300000

200000

100000

0

Time-->



#5

Bromomethane

Concen: 0.218 ug/l

RT: 2.57 min Scan# 248

Delta R.T. 0.01 min

Lab File: VN051764.D

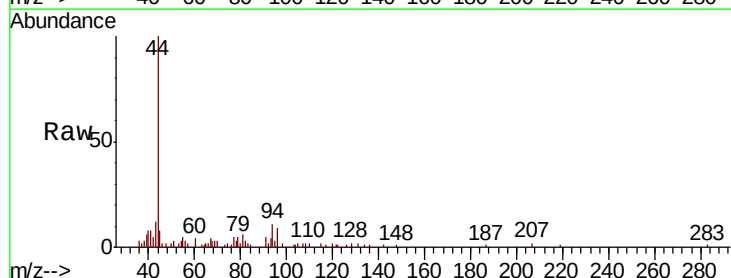
Acq: 9 Oct 2018 21:50

Tgt Ion: 94 Resp: 2195

Ion Ratio Lower Upper

94 100

96 75.4 75.2 112.8



Abundance Ion 93.90 (93.60 to 94.60): VN051764.D (-153) (-)

Ion 95.90 (95.60 to 96.60): VN051764.D (-153) (-)

2.57

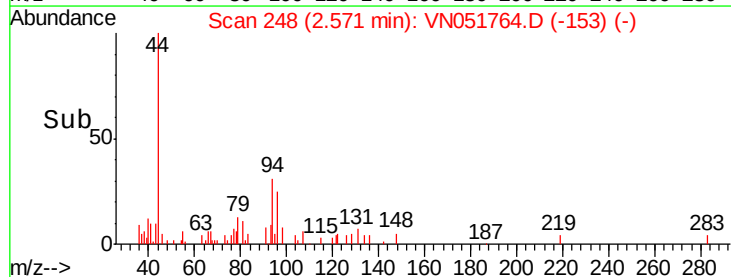
1500

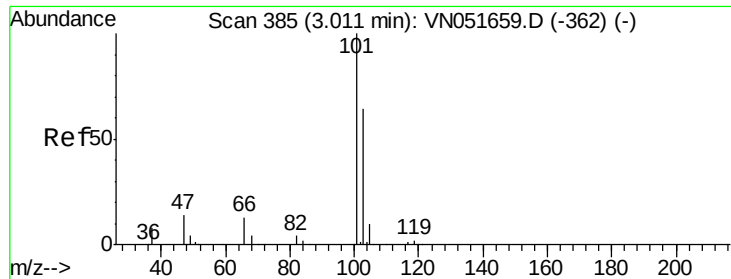
1000

500

0

Time-->



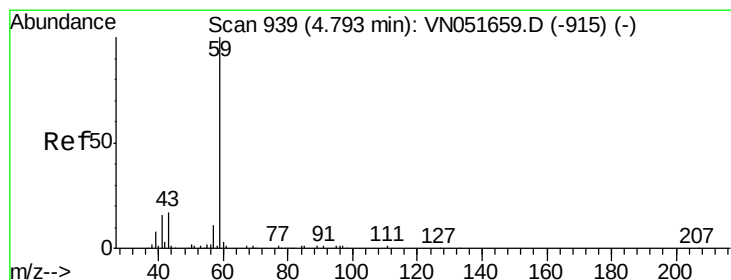
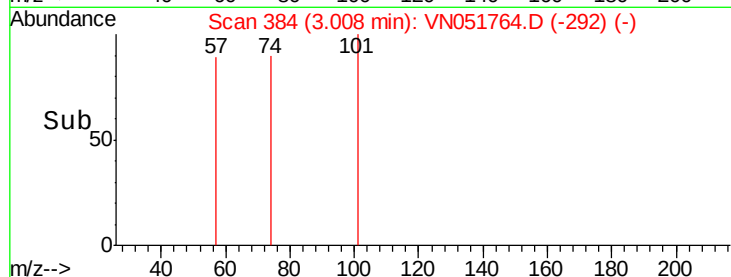
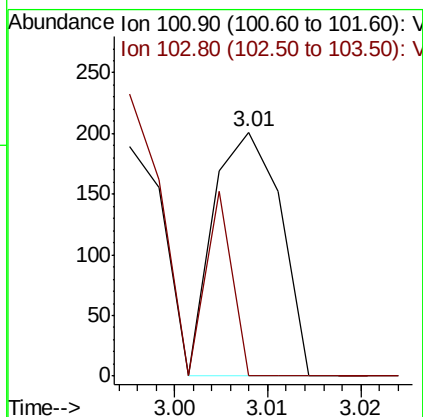
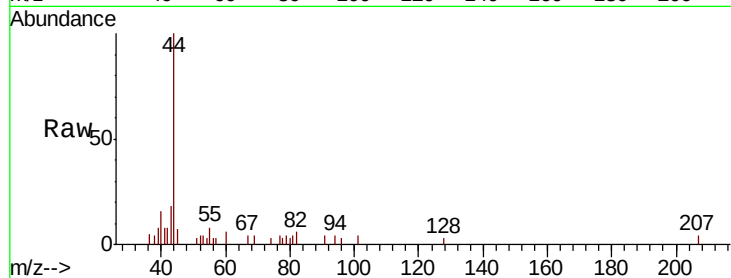


#7

Trichlorofluoromethane
 Concen: Below Cal
 RT: 3.01 min Scan# 384
 Delta R.T. -0.00 min
 Lab File: VN051764.D
 Acq: 9 Oct 2018 21:50

Instrument :
 MSVOA_N
 ClientSampleId :
 PB113645ZHE#04

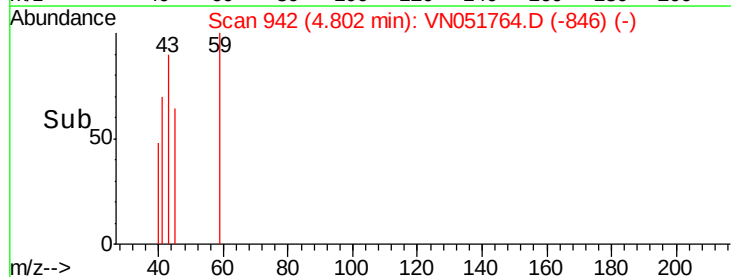
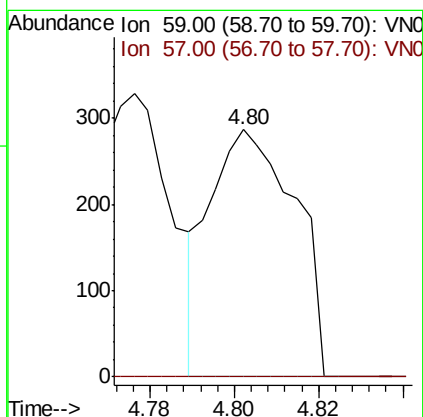
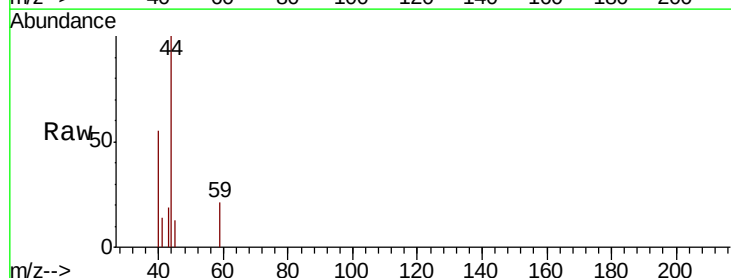
Tot Ion:101 Resp: 101
 Ion Ratio Lower Upper
 101 100
 103 0.0 51.1 76.7#

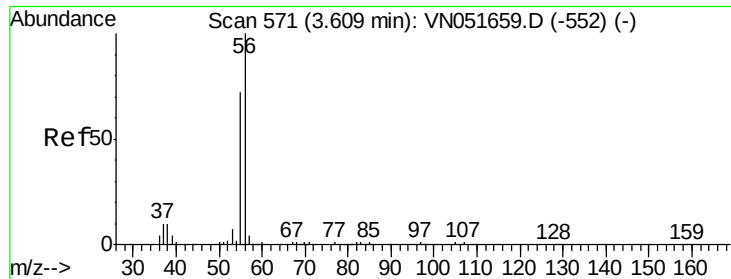


#11

Tert butyl alcohol
 Concen: 0.609 ug/l
 RT: 4.80 min Scan# 942
 Delta R.T. 0.01 min
 Lab File: VN051764.D
 Acq: 9 Oct 2018 21:50

Tgt Ion: 59 Resp: 399
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.1 12.1#





#13

Acrolein

Concen: Below Cal

RT: 3.61 min Scan# 572

Delta R.T. 0.00 min

Lab File: VN051764.D

Acq: 9 Oct 2018 21:50

Instrument :

MSVOA_N

ClientSampleId :

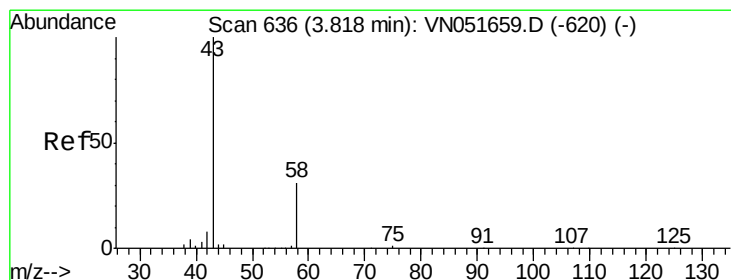
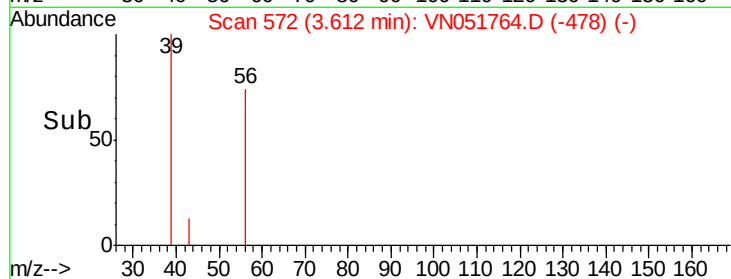
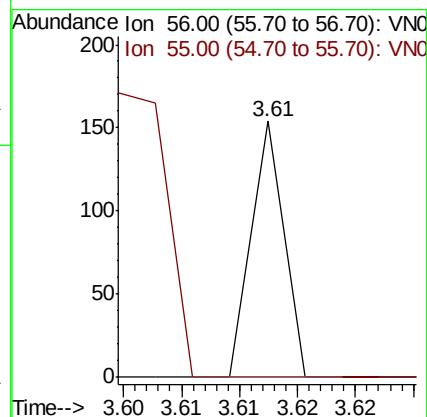
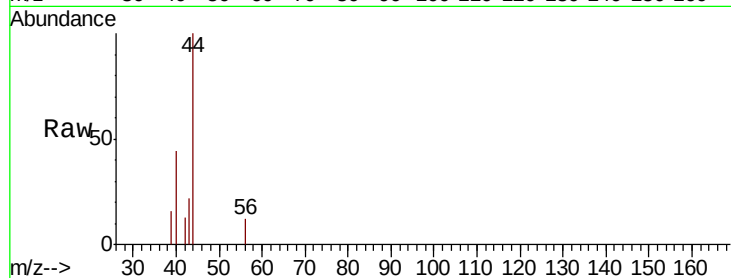
PB113645ZHE#04

Tot Ion: 56 Resp: 30

Ion Ratio Lower Upper

56 100

55 216.7 57.5 86.3#



#16

Acetone

Concen: Below Cal

RT: 3.83 min Scan# 640

Delta R.T. 0.01 min

Lab File: VN051764.D

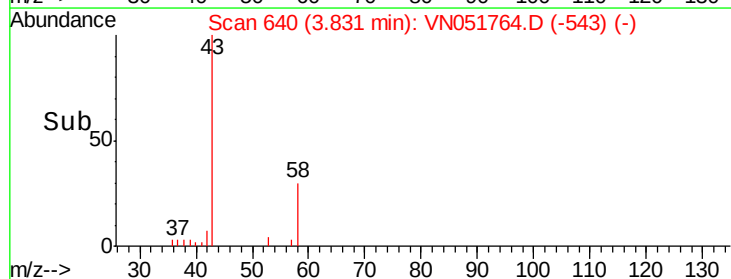
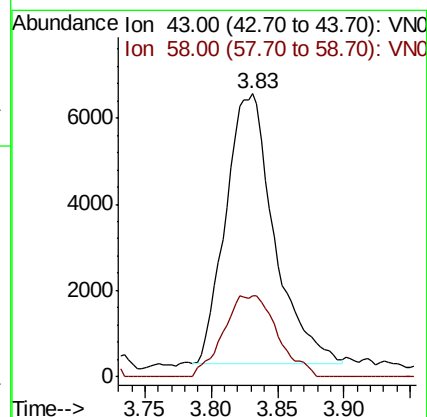
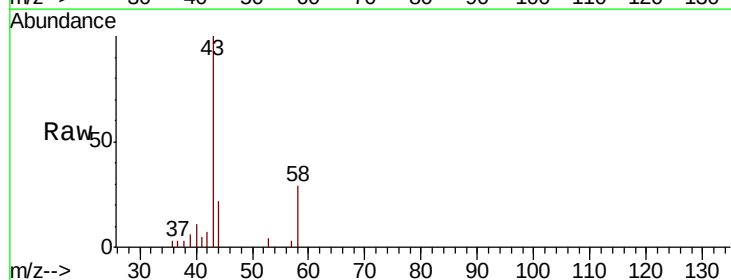
Acq: 9 Oct 2018 21:50

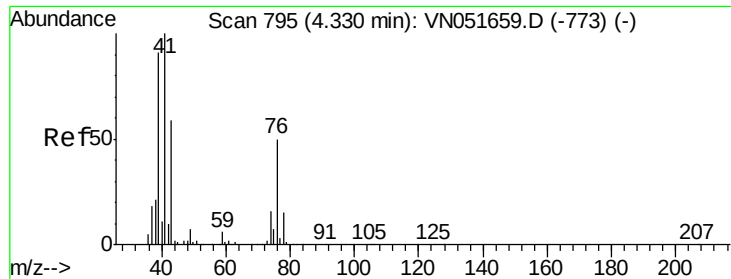
Tgt Ion: 43 Resp: 15911

Ion Ratio Lower Upper

43 100

58 30.1 24.3 36.5

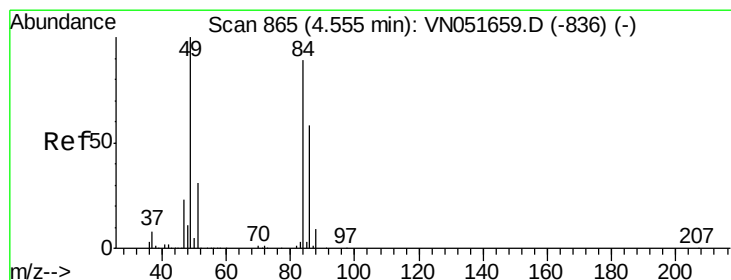
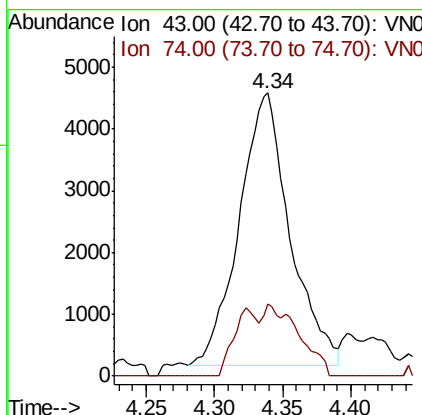
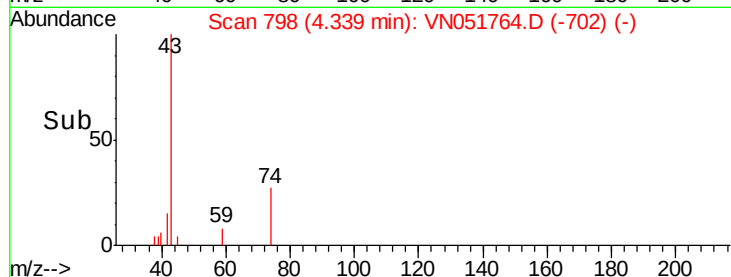
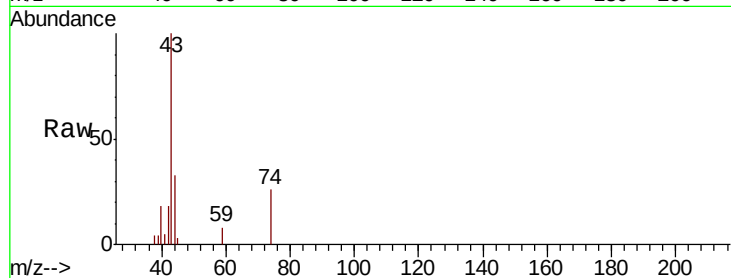




#18
Methyl Acetate
Concen: 2.135 ug/l
RT: 4.34 min Scan# 798
Delta R.T. 0.01 min
Lab File: VN051764.D
Acq: 9 Oct 2018 21:50

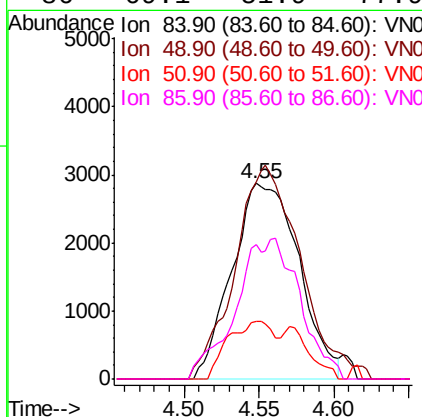
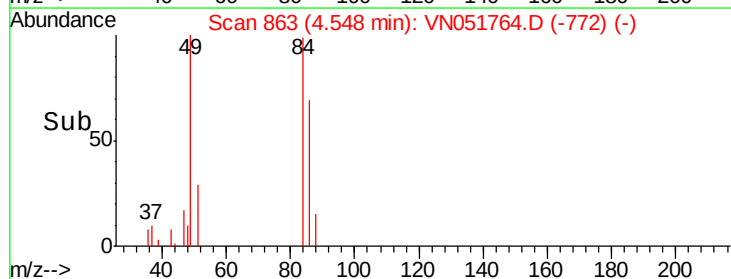
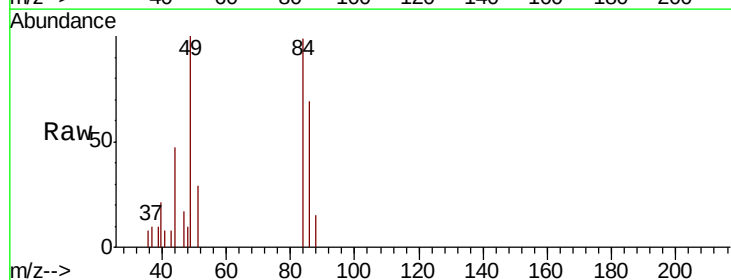
Instrument :
MSVOA_N
ClientSampleId :
PB113645ZHE#04

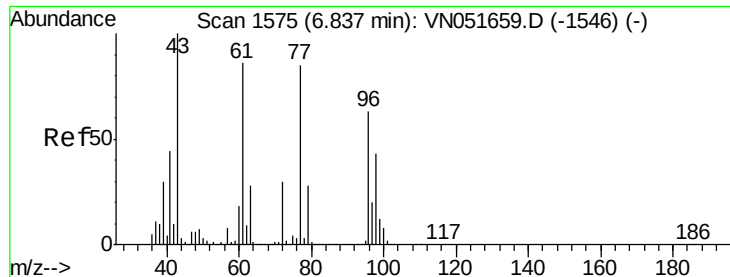
Tot Ion: 43 Resp: 11357
Ion Ratio Lower Upper
43 100
74 18.8 21.5 32.3#



#20
Methylene Chloride
Concen: 1.127 ug/l
RT: 4.55 min Scan# 863
Delta R.T. -0.01 min
Lab File: VN051764.D
Acq: 9 Oct 2018 21:50

Tgt Ion: 84 Resp: 8935
Ion Ratio Lower Upper
84 100
49 100.7 89.5 134.3
51 29.5 27.4 41.0
86 69.1 51.9 77.9





#25

2-Butanone

Concen: 1.211 ug/l

RT: 6.84 min Scan# 1576

Delta R.T. 0.00 min

Lab File: VN051764.D

Acq: 9 Oct 2018 21:50

Instrument :

MSVOA_N

ClientSampleId :

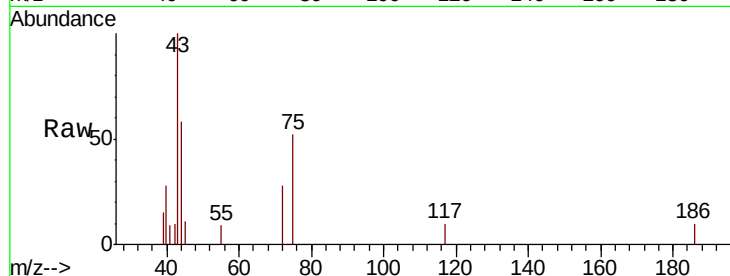
PB113645ZHE#04

Tot Ion: 43 Resp: 3371

Ion Ratio Lower Upper

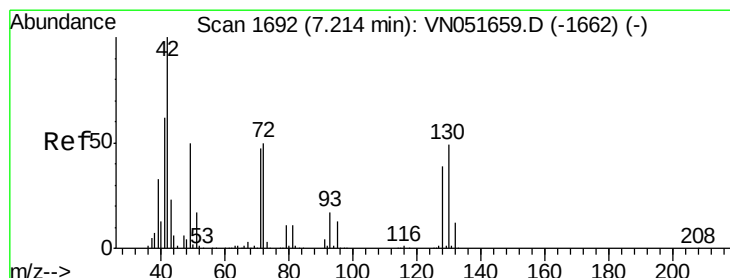
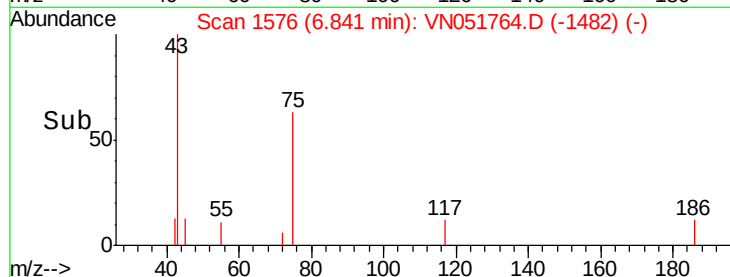
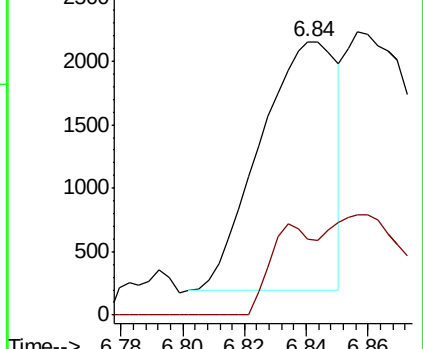
43 100

72 30.4 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: 0.220 ug/l

RT: 7.23 min Scan# 1696

Delta R.T. 0.01 min

Lab File: VN051764.D

Acq: 9 Oct 2018 21:50

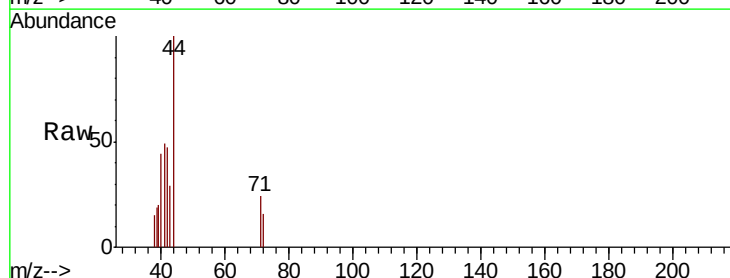
Tgt Ion: 42 Resp: 375

Ion Ratio Lower Upper

42 100

72 76.8 40.1 60.1#

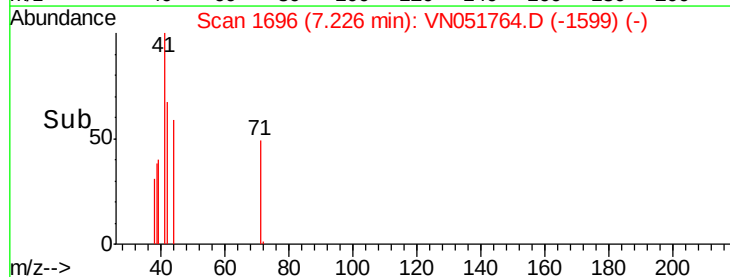
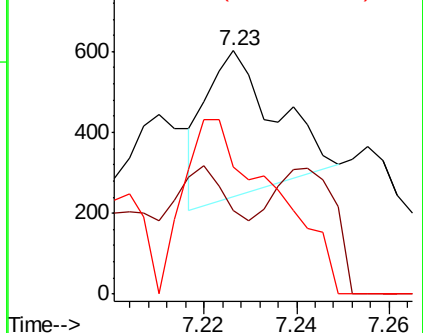
71 156.0 38.0 57.0#

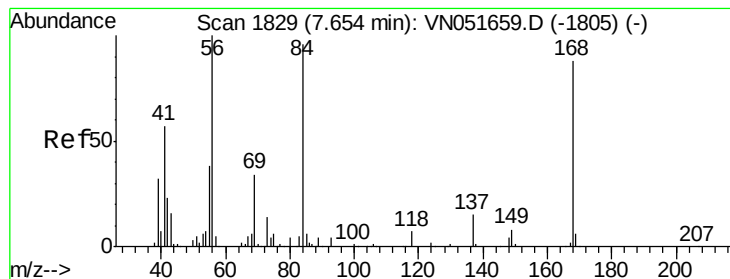


Abundance Ion 42.00 (41.70 to 42.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

Ion 71.00 (70.70 to 71.70): VN0





#31

Cyclohexane

Concen: 1.086 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.01 min

Lab File: VN051764.D

Acq: 9 Oct 2018 21:50

Instrument :

MSVOA_N

ClientSampleId :

PB113645ZHE#04

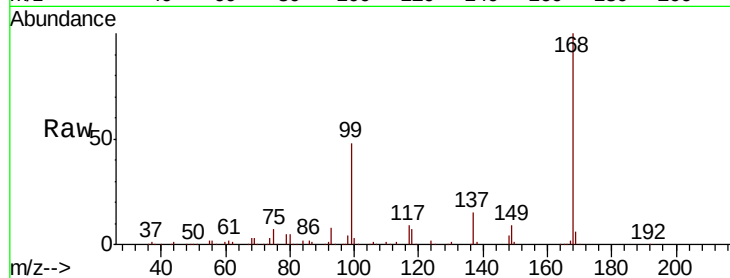
Tot Ion: 56 Resp: 14208

Ion Ratio Lower Upper

56 100

69 140.9 27.5 41.3#

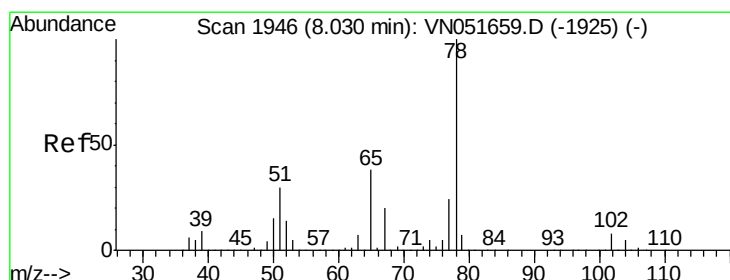
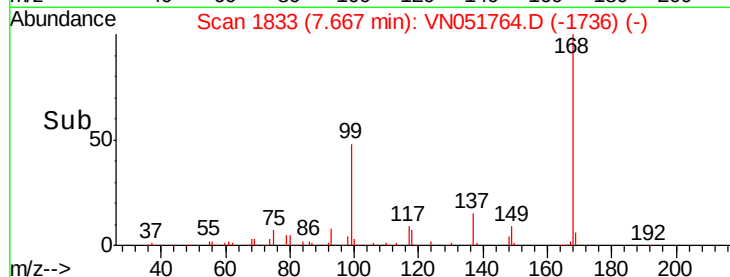
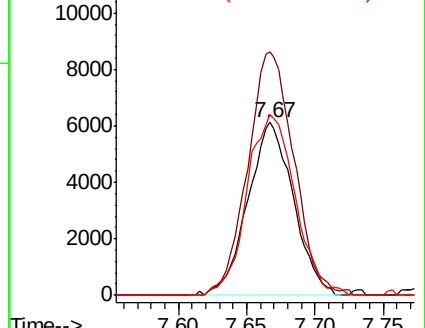
84 104.6 76.7 115.1



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: VN051764.D

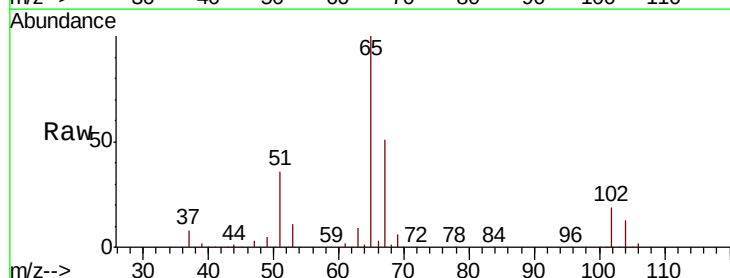
Acq: 9 Oct 2018 21:50

Tgt Ion: 65 Resp: 435579

Ion Ratio Lower Upper

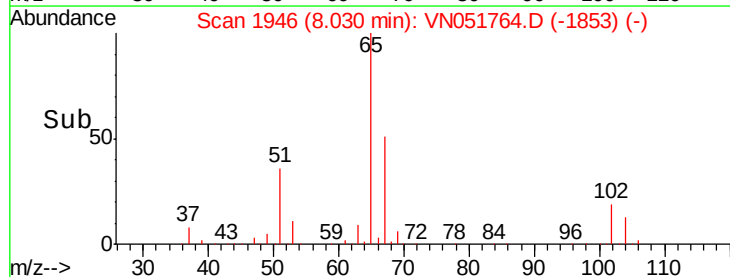
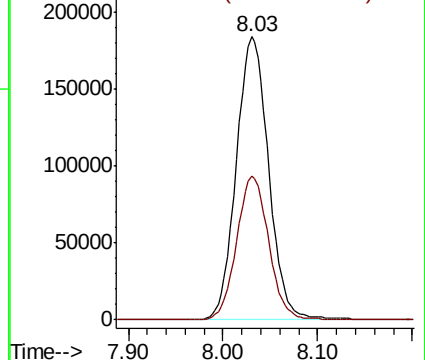
65 100

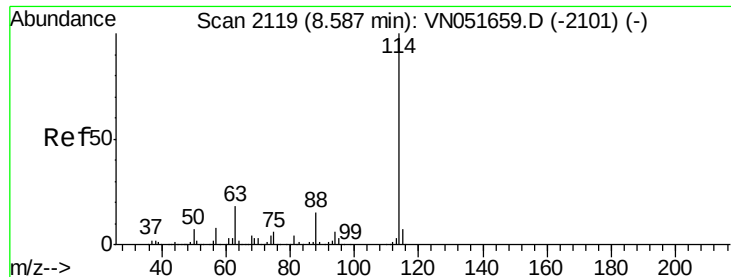
67 50.5 0.0 103.6



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

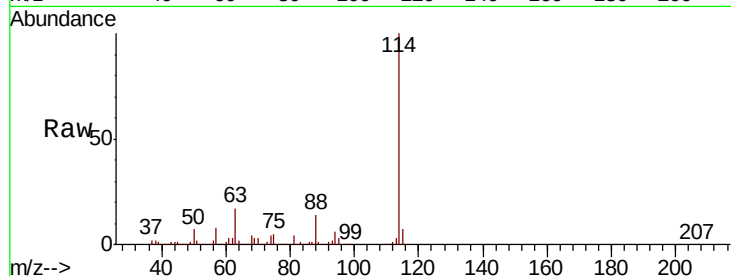




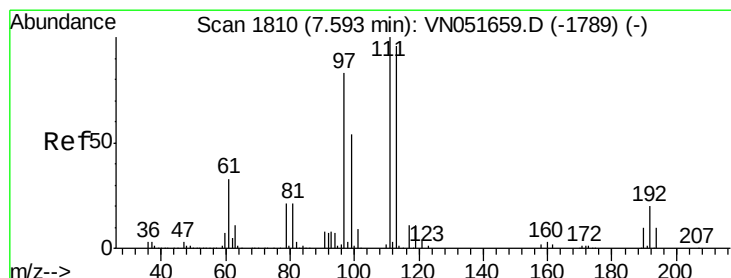
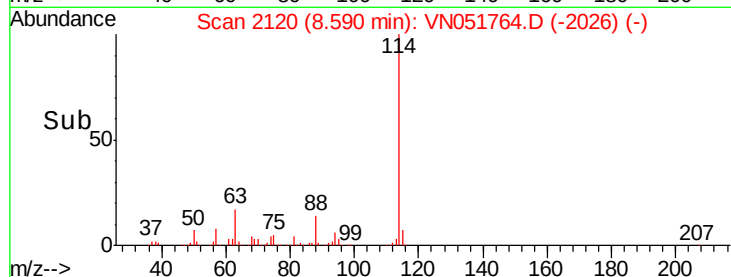
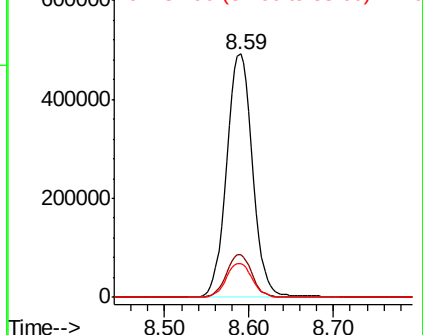
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2120
 Delta R.T. 0.00 min
 Lab File: VN051764.D
 Acq: 9 Oct 2018 21:50

Instrument :
 MSVOA_N
 ClientSampleId :
 PB113645ZHE#04

Tot Ion:114 Resp: 1055236
 Ion Ratio Lower Upper
 114 100
 63 17.4 0.0 36.2
 88 13.8 0.0 30.2

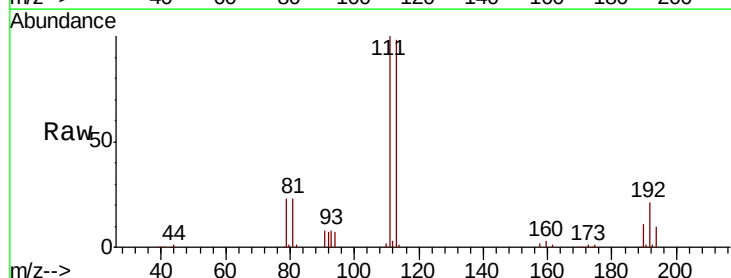


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

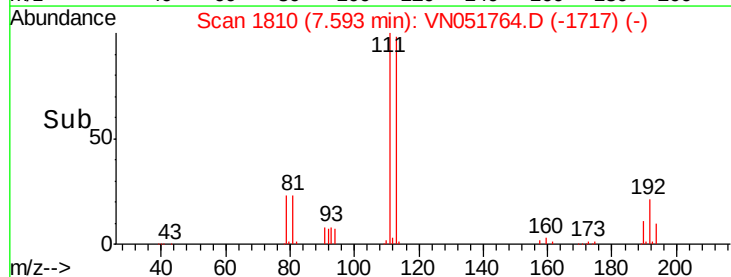
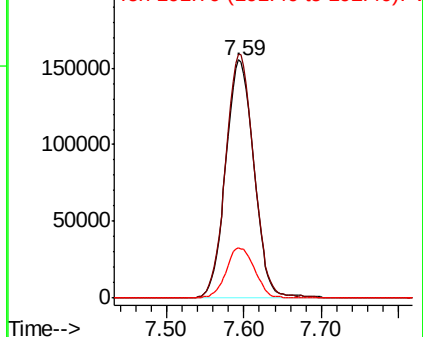


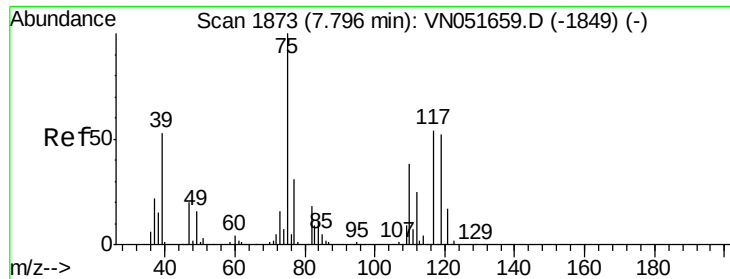
#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. -0.00 min
 Lab File: VN051764.D
 Acq: 9 Oct 2018 21:50

Tgt Ion:113 Resp: 392408
 Ion Ratio Lower Upper
 113 100
 111 102.6 81.8 122.8
 192 21.2 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

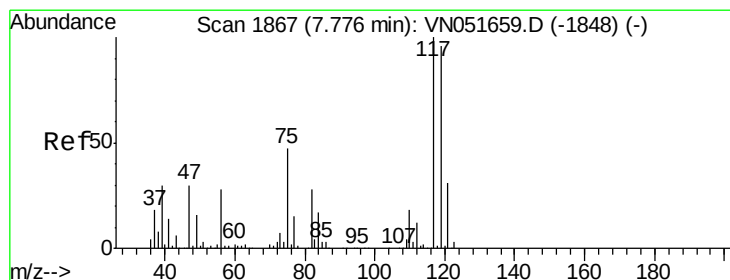
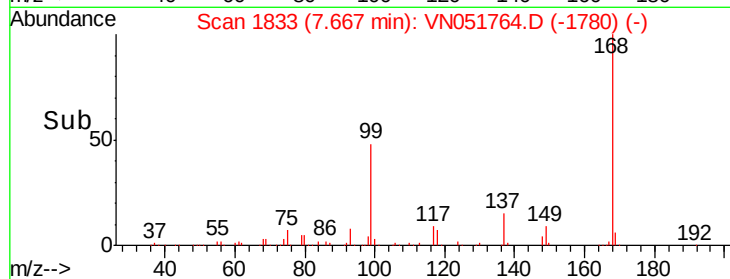
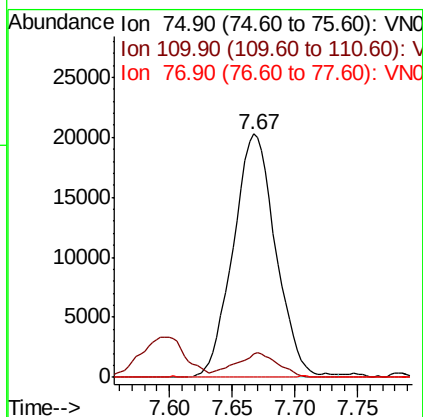
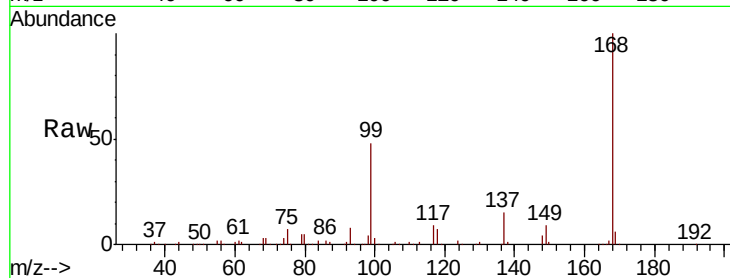




#36
 1,1-Dichloropropene
 Concen: 4.342 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.13 min
 Lab File: VN051764.D
 Acq: 9 Oct 2018 21:50

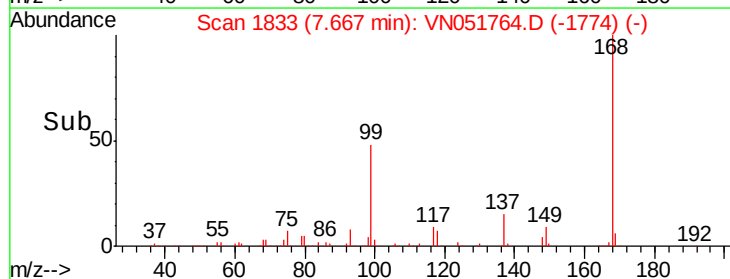
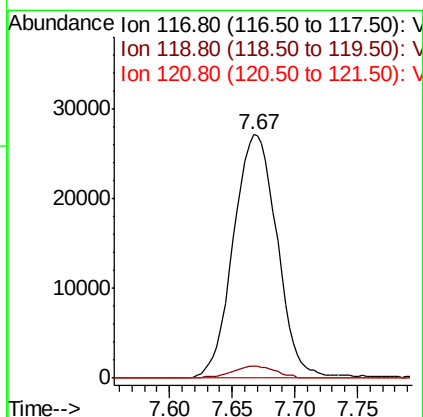
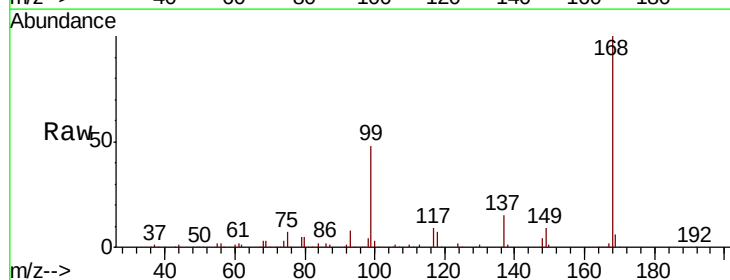
Instrument :
 MSVOA_N
 ClientSampleId :
 PB113645ZHE#04

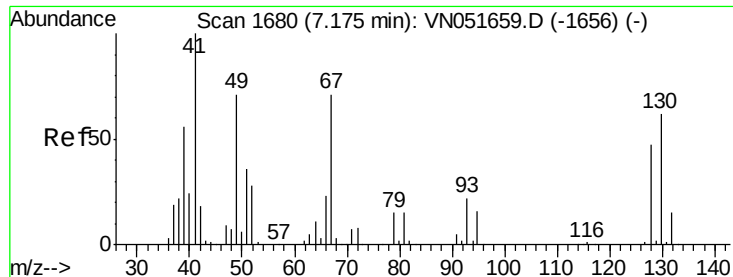
Tot Ion: 75 Resp: 47897
 Ion Ratio Lower Upper
 75 100
 110 10.1 19.3 57.8#
 77 0.0 24.7 37.1#



#38
 Carbon Tetrachloride
 Concen: 4.967 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.11 min
 Lab File: VN051764.D
 Acq: 9 Oct 2018 21:50

Tgt Ion: 117 Resp: 65737
 Ion Ratio Lower Upper
 117 100
 119 5.1 77.0 115.6#
 121 0.0 25.0 37.6#

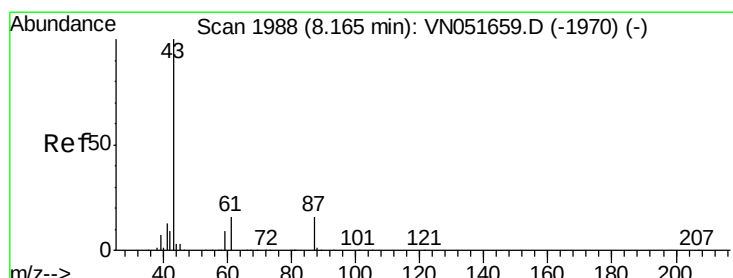
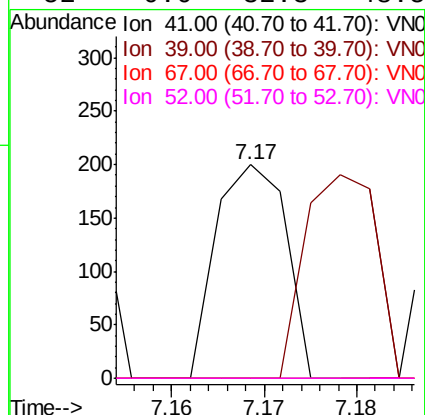
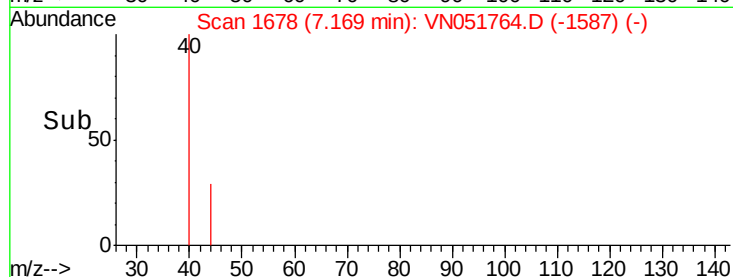
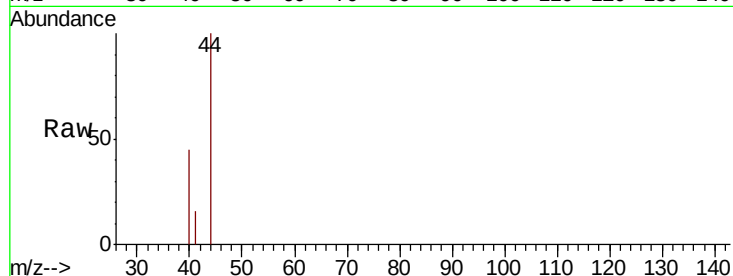




#41
Methacrylonitrile
Concen: Below Cal
RT: 7.17 min Scan# 1678
Delta R.T. -0.01 min
Lab File: VN051764.D
Acq: 9 Oct 2018 21:50

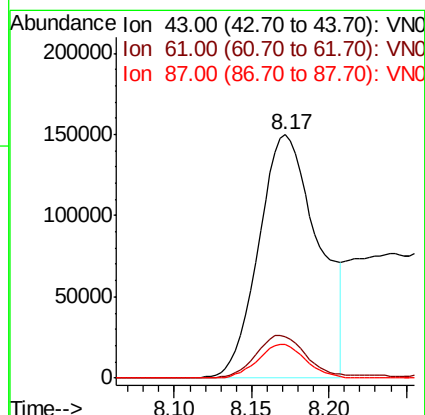
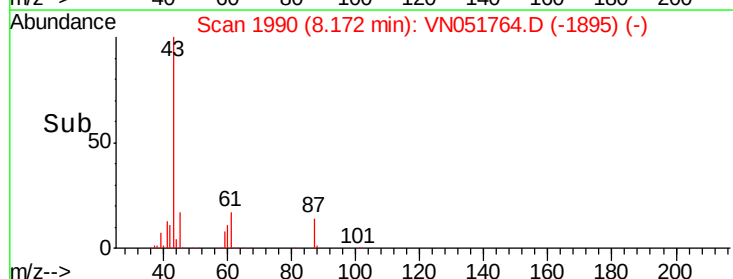
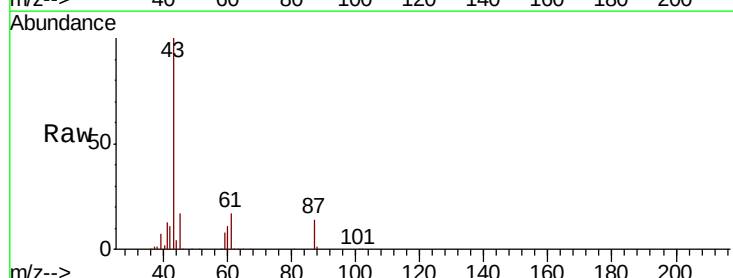
Instrument :
MSVOA_N
ClientSampleId :
PB113645ZHE#04

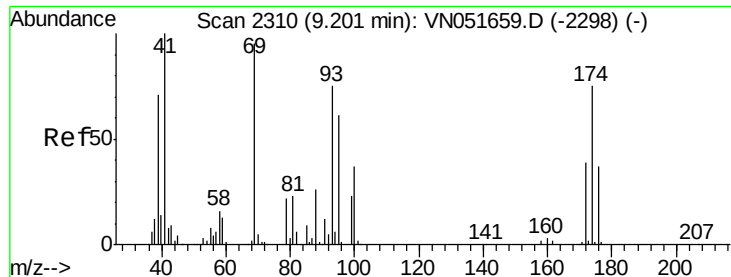
Tot Ion: 41 Resp: 105
Ion Ratio Lower Upper
41 100
39 98.1 53.9 80.9#
67 0.0 78.1 117.1#
52 0.0 32.3 48.5#



#43
Isopropyl Acetate
Concen: 33.313 ug/l
RT: 8.17 min Scan# 1990
Delta R.T. 0.01 min
Lab File: VN051764.D
Acq: 9 Oct 2018 21:50

Tgt Ion: 43 Resp: 399551
Ion Ratio Lower Upper
43 100
61 15.4 15.8 23.6#
87 11.3 12.6 19.0#

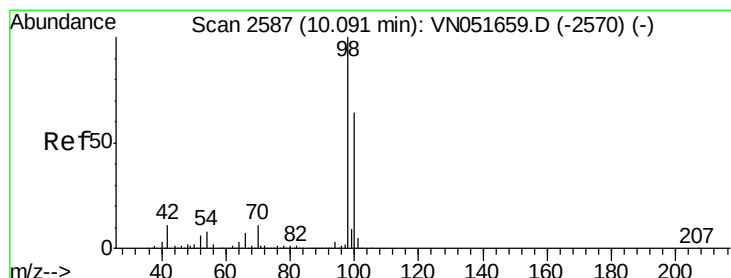
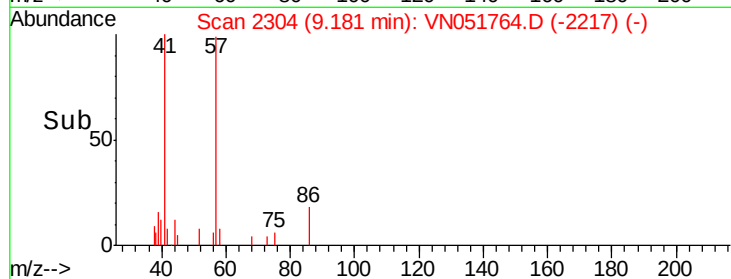
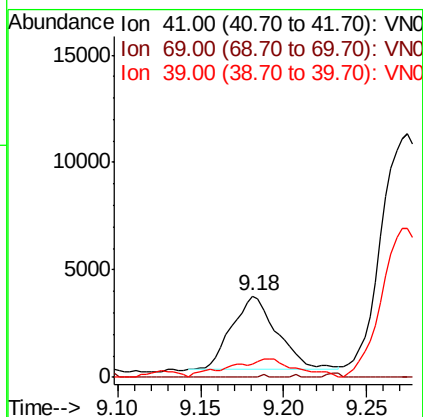
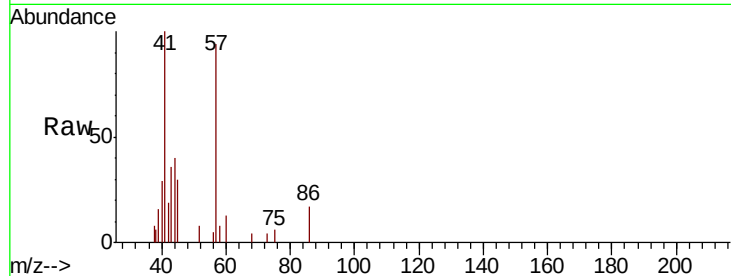




#48
Methyl methacrylate
Concen: 1.187 ug/l
RT: 9.18 min Scan# 2304
Delta R.T. -0.02 min
Lab File: VN051764.D
Acq: 9 Oct 2018 21:50

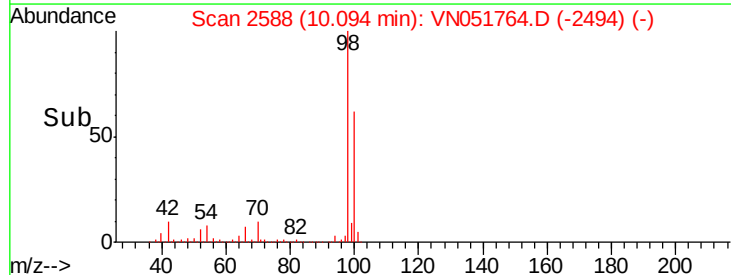
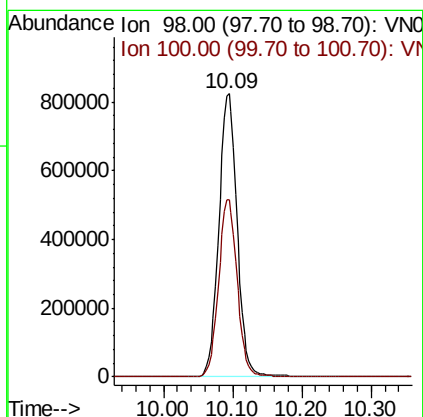
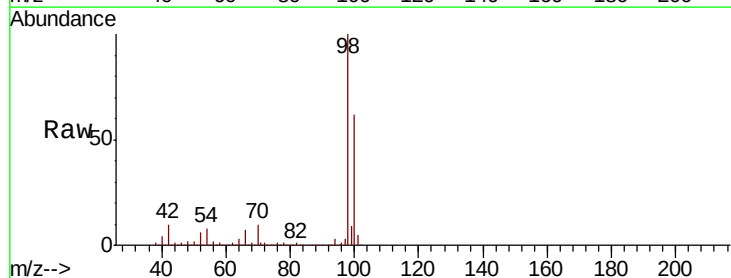
Instrument :
MSVOA_N
ClientSampleId :
PB113645ZHE#04

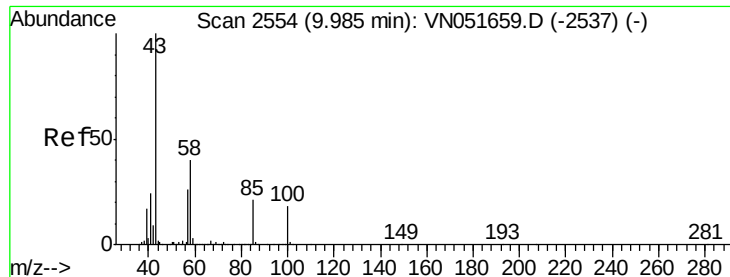
Tot Ion: 41 Resp: 6506
Ion Ratio Lower Upper
41 100
69 0.5 78.6 118.0#
39 36.8 59.2 88.8#



#50
Toluene-d8
Concen: N.D. ug/l
RT: 10.09 min Scan# 2588
Delta R.T. 0.00 min
Lab File: VN051764.D
Acq: 9 Oct 2018 21:50

Tgt Ion: 98 Resp: 1512995
Ion Ratio Lower Upper
98 100
100 63.3 51.5 77.3

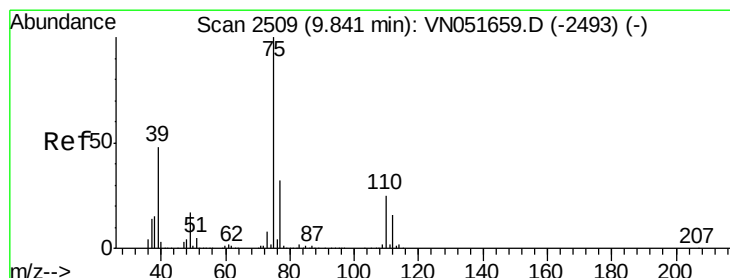
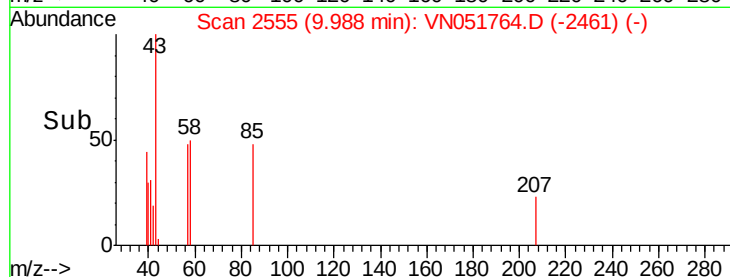
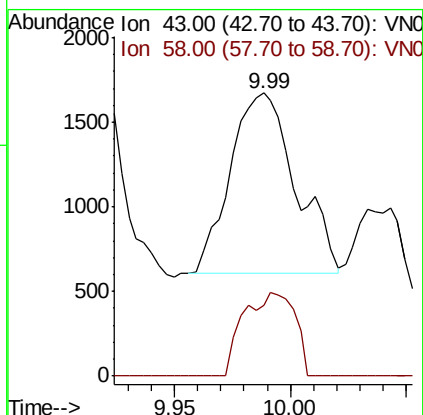
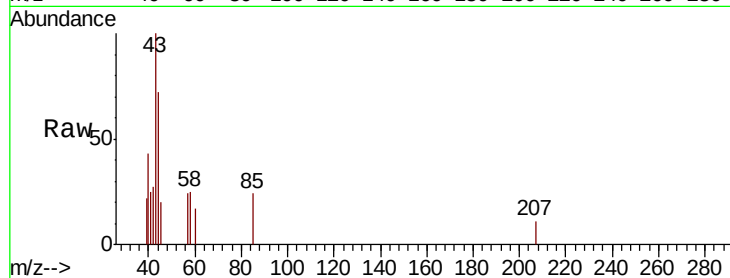




#51
 4-Methyl-2-Pentanone
 Concen: 0.344 ug/l
 RT: 9.99 min Scan# 2555
 Delta R.T. 0.00 min
 Lab File: VN051764.D
 Acq: 9 Oct 2018 21:50

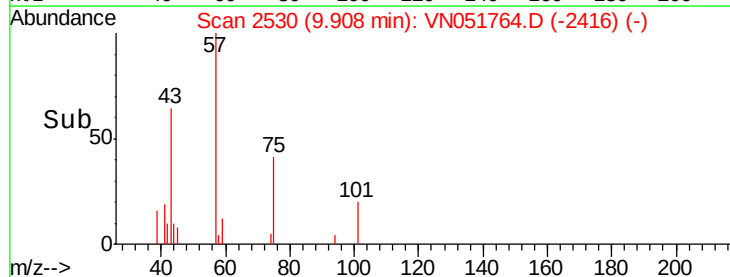
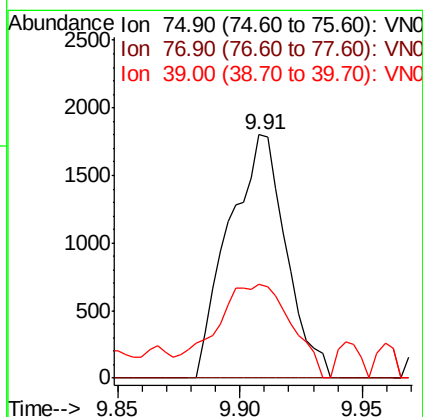
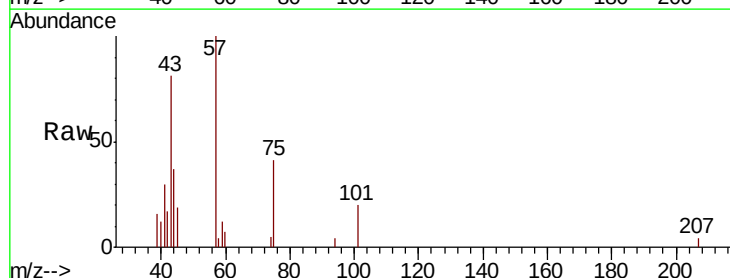
Instrument :
 MSVOA_N
 ClientSampleId :
 PB113645ZHE#04

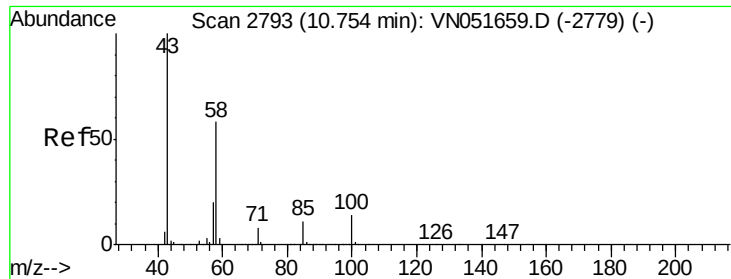
Tot Ion: 43 Resp: 2088
 Ion Ratio Lower Upper
 43 100
 58 36.0 32.2 48.2



#54
 cis-1,3-Dichloropropene
 Concen: 0.216 ug/l
 RT: 9.91 min Scan# 2530
 Delta R.T. 0.07 min
 Lab File: VN051764.D
 Acq: 9 Oct 2018 21:50

Tgt Ion: 75 Resp: 2926
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.7 38.5#
 39 27.1 38.1 57.1#

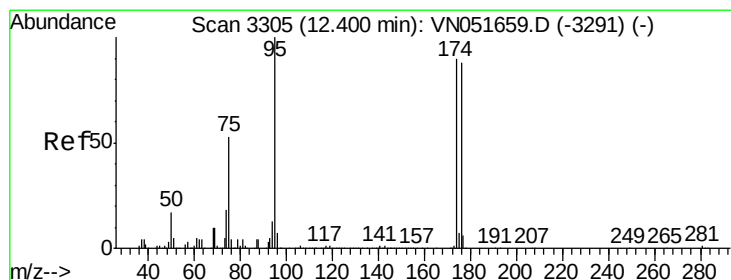
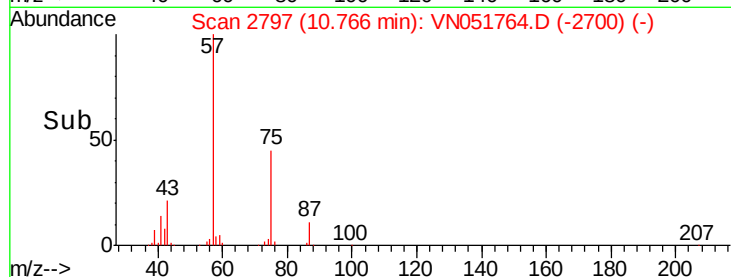
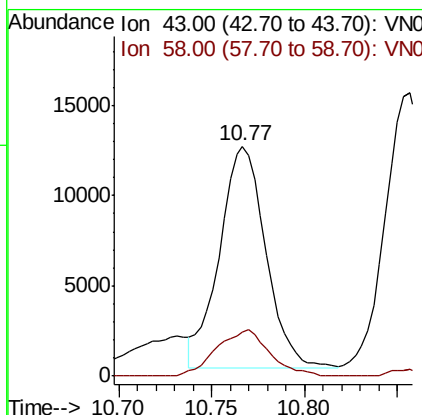
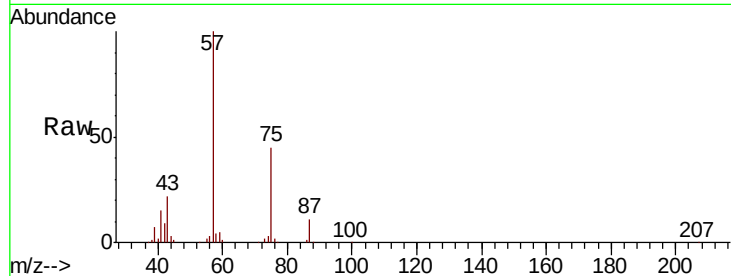




#59
2-Hexanone
Concen: 5.148 ug/l
RT: 10.77 min Scan# 2797
Delta R.T. 0.01 min
Lab File: VN051764.D
Acq: 9 Oct 2018 21:50

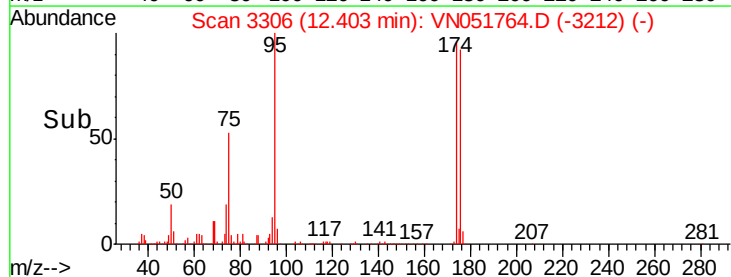
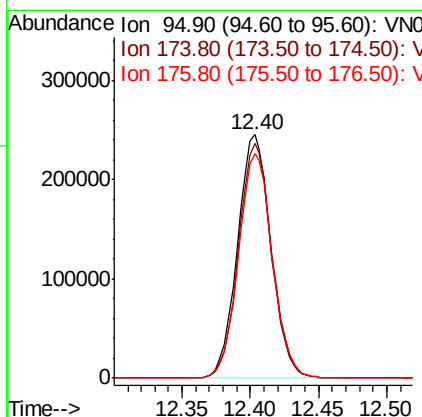
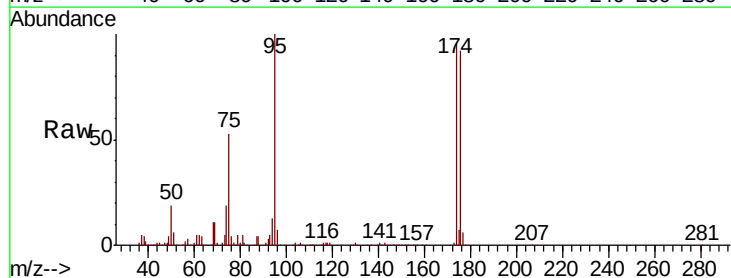
Instrument :
MSVOA_N
ClientSampleId :
PB113645ZHE#04

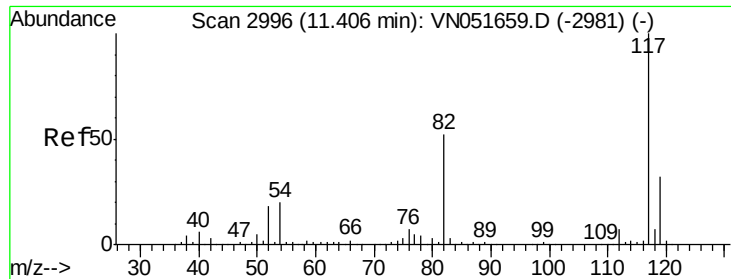
Tot Ion: 43 Resp: 21249
Ion Ratio Lower Upper
43 100
58 23.9 28.8 86.4#



#62
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN051764.D
Acq: 9 Oct 2018 21:50

Tgt Ion: 95 Resp: 416408
Ion Ratio Lower Upper
95 100
174 96.3 0.0 182.8
176 92.9 0.0 176.4

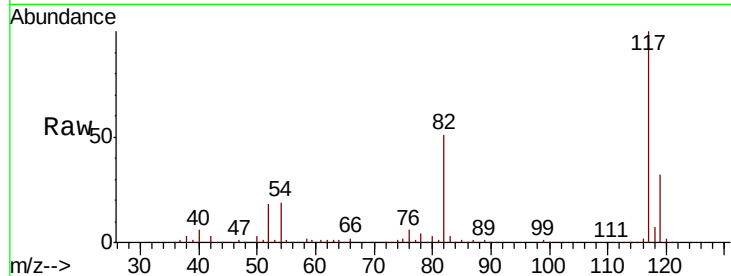




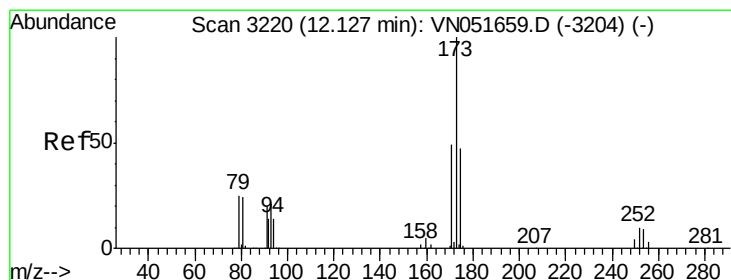
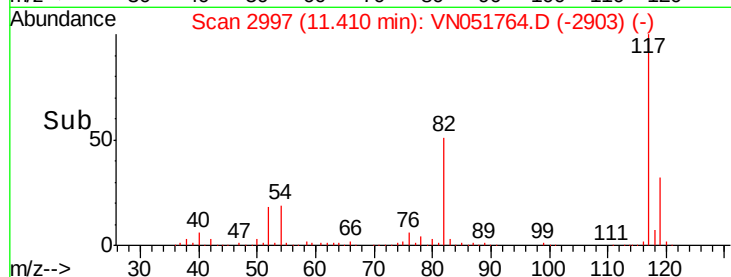
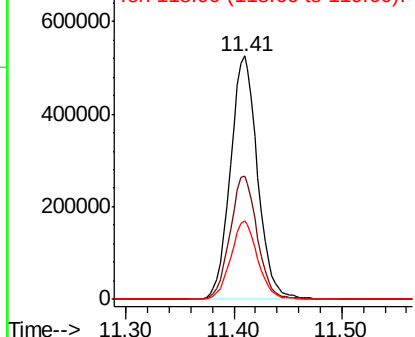
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2997
Delta R.T. 0.00 min
Lab File: VN051764.D
Acq: 9 Oct 2018 21:50

Instrument :
MSVOA_N
ClientSampleId :
PB113645ZHE#04

Tot Ion:117 Resp: 921357
Ion Ratio Lower Upper
117 100
82 50.8 41.3 61.9
119 32.3 25.9 38.9

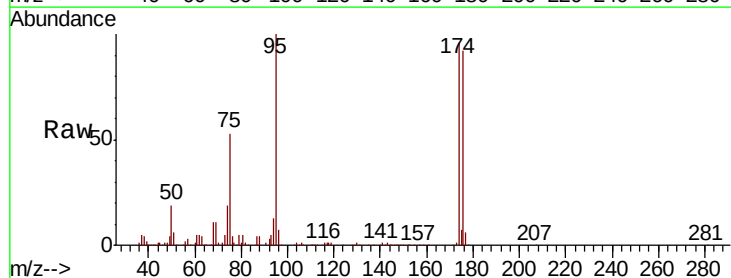


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

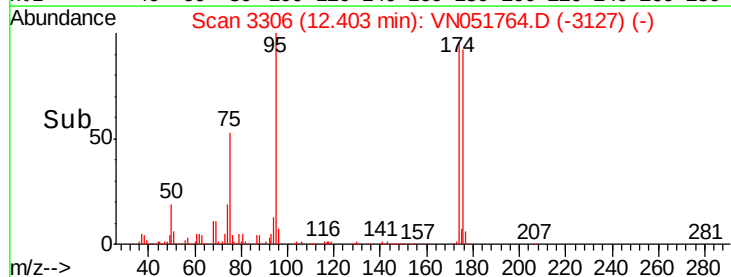
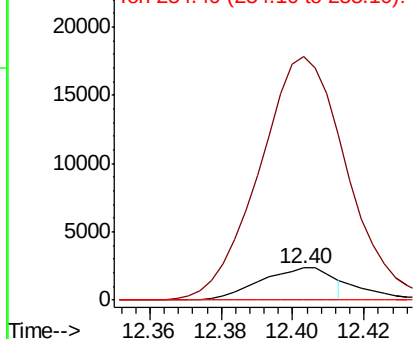


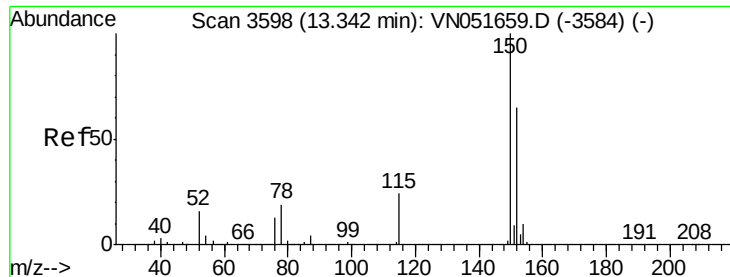
#71
Bromoform
Concen: 0.491 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.28 min
Lab File: VN051764.D
Acq: 9 Oct 2018 21:50

Tgt Ion:173 Resp: 3339
Ion Ratio Lower Upper
173 100
175 762.5 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



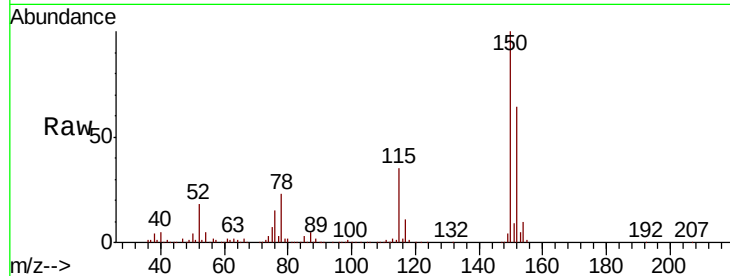


#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.35 min Scan# 3599
Delta R.T. 0.00 min
Lab File: VN051764.D
Acq: 9 Oct 2018 21:50

Instrument :
MSVOA_N
ClientSampleId :
PB113645ZHE#04

Tot Ion	Ratio	Lower	Upper
152	100		
115	54.2	28.6	85.8
150	157.5	0.0	352.4

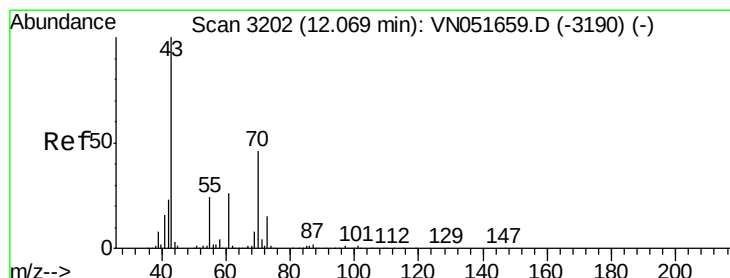
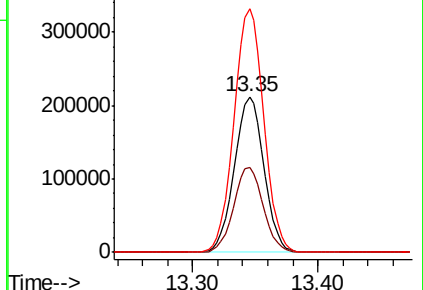
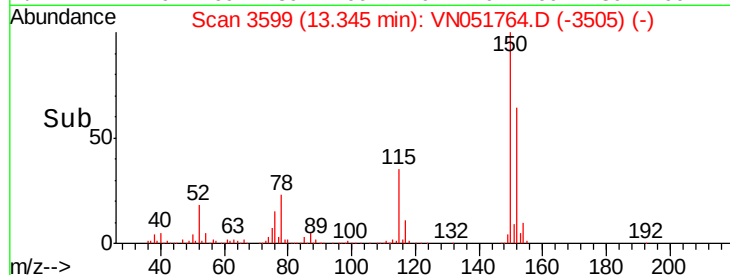


Abundance

Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

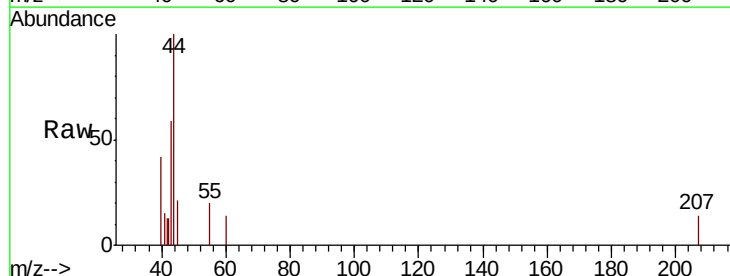
Ion 149.90 (149.60 to 150.60): V



#74

N-ethyl acetate
Concen: Below Cal
RT: 12.08 min Scan# 3205
Delta R.T. 0.01 min
Lab File: VN051764.D
Acq: 9 Oct 2018 21:50

Tgt Ion	Ratio	Lower	Upper
43	100		
70	0.0	37.1	55.7#
55	40.1	19.1	28.7#
61	0.0	20.8	31.2#



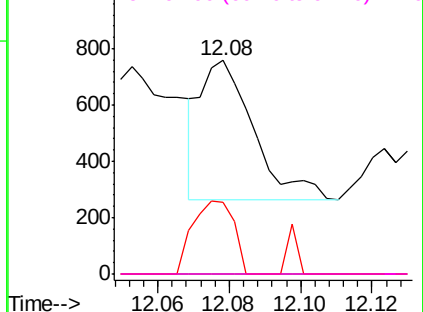
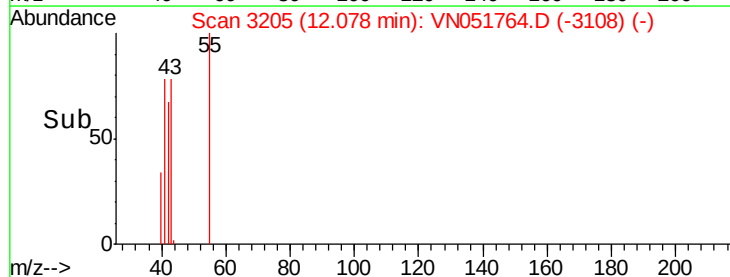
Abundance

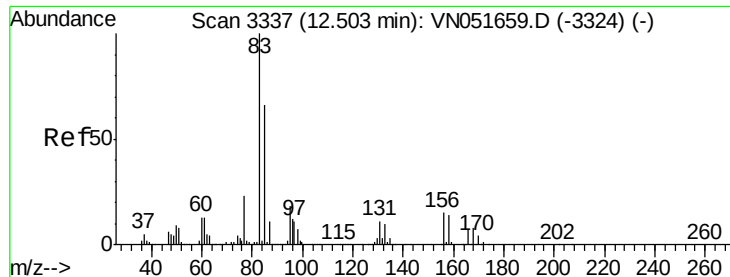
Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V





#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.53 min Scan# 3345

Delta R.T. 0.03 min

Lab File: VN051764.D

Acq: 9 Oct 2018 21:50

Instrument :

MSVOA_N

ClientSampleId :

PB113645ZHE#04

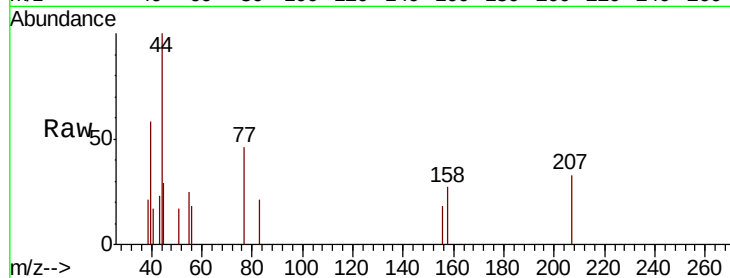
Tot Ion: 83 Resp: 100

Ion Ratio Lower Upper

83 100

131 0.0 5.7 17.1#

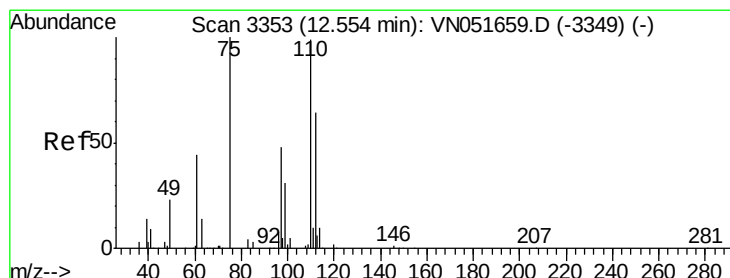
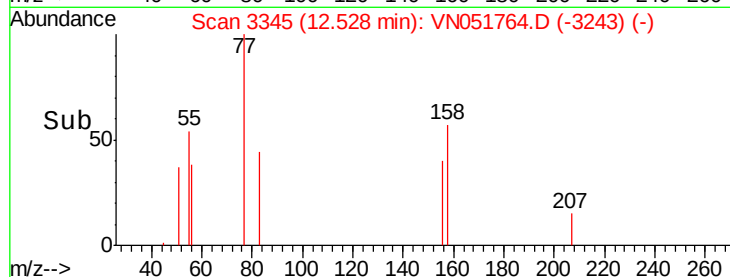
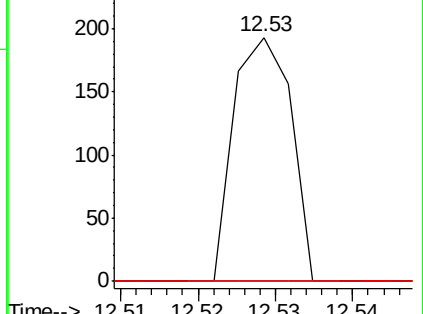
85 0.0 33.0 98.9#



Abundance Ion 82.90 (82.60 to 83.60): VN0

Ion 130.80 (130.50 to 131.50): VN0

Ion 84.90 (84.60 to 85.60): VN0



#76

1,2,3-Trichloropropane

Concen: 52.269 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN051764.D

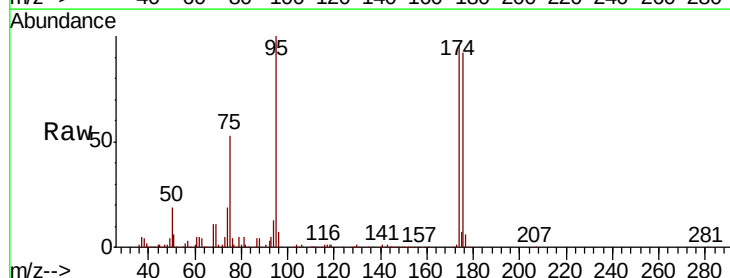
Acq: 9 Oct 2018 21:50

Tgt Ion: 75 Resp: 224615

Ion Ratio Lower Upper

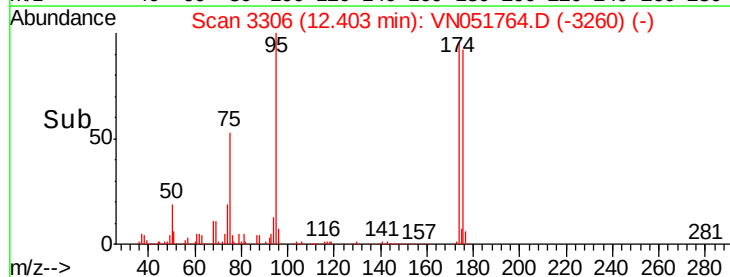
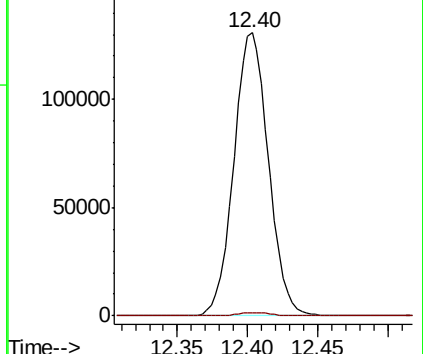
75 100

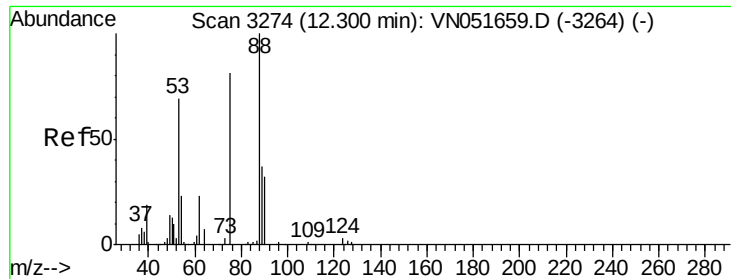
77 1.1 0.0 0.0#



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: 118.957 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN051764.D

Acq: 9 Oct 2018 21:50

Instrument :

MSVOA_N

ClientSampleId :

PB113645ZHE#04

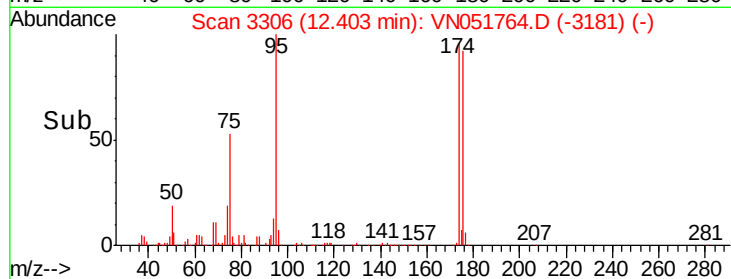
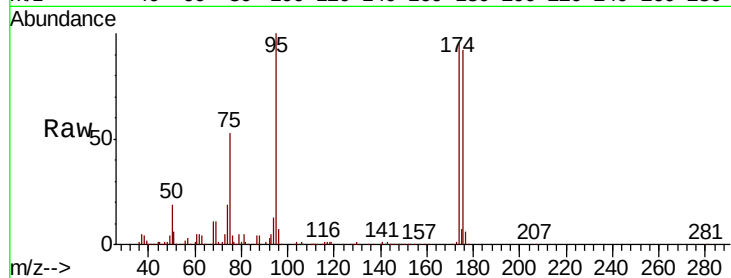
Tot Ion: 75 Resp: 224615

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

