

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN100818\
 Data File : VN051728.D
 Acq On : 8 Oct 2018 12:06
 Operator : MD\SY
 Sample : PB113584ZHE#03
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 11 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 PB113584ZHE#03

Quant Time: Oct 09 03:51:02 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N100418W.M
 Quant Title : SW846 8260
 QLast Update : Fri Oct 05 02:22:33 2018
 Response via : Initial Calibration

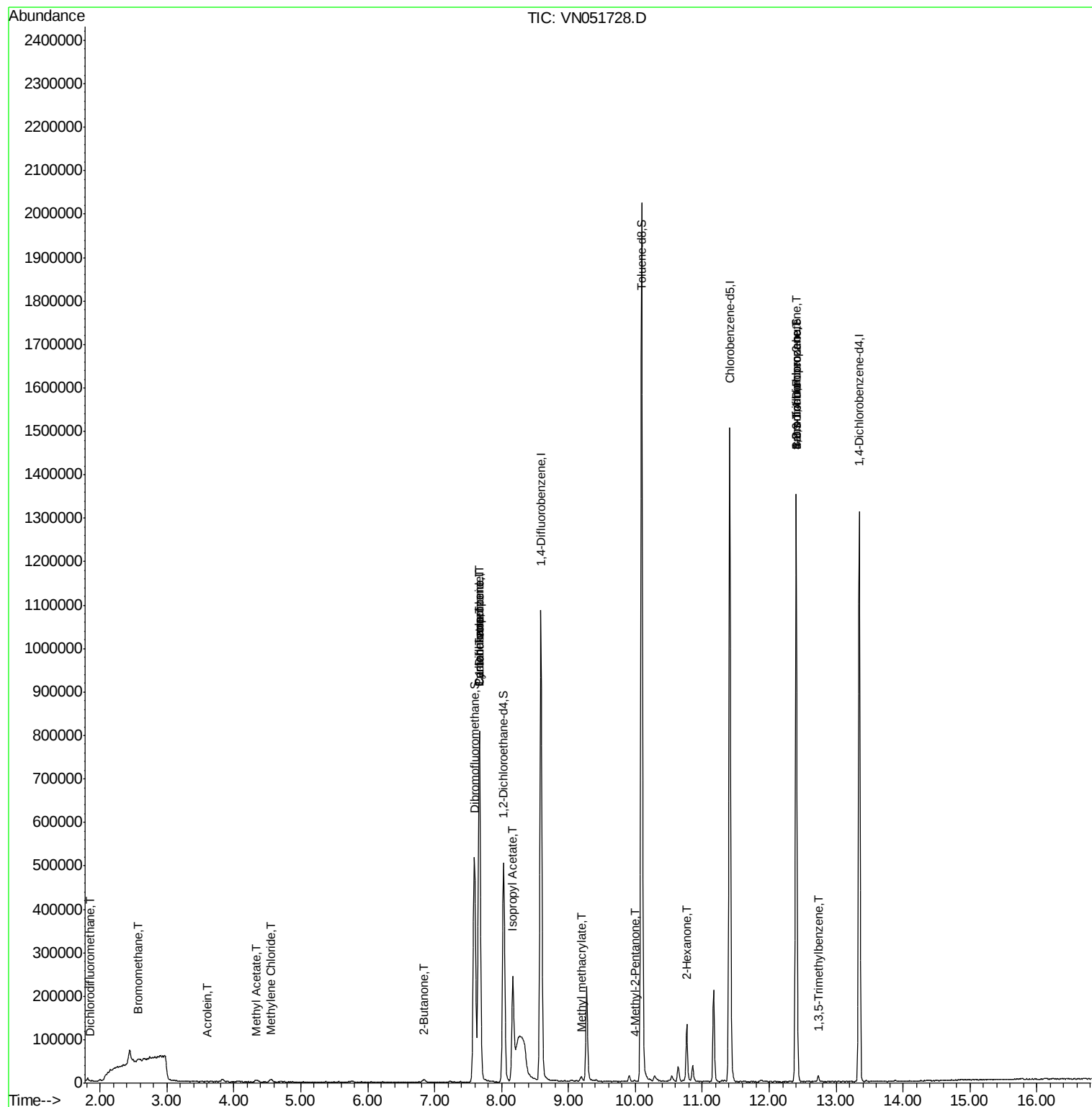
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	719174	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1025010	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	910288	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	361600	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.03	65	429872	45.25	ug/l	0.00
Spiked Amount 50.000			Recovery	=	90.50%	
35) Dibromofluoromethane	7.59	113	391643	49.42	ug/l	0.00
Spiked Amount 50.000			Recovery	=	98.84%	
50) Toluene-d8	10.09	98	1460296	49.39	ug/l	0.00
Spiked Amount 50.000			Recovery	=	98.78%	
62) 4-Bromofluorobenzene	12.40	95	418549	39.99	ug/l	0.00
Spiked Amount 50.000			Recovery	=	79.98%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.86	85	30	1.152	ug/l #	42
5) Bromomethane	2.57	94	2258	0.227	ug/l #	58
7) Trichlorofluoromethane	3.00	101	60	Below Cal	#	18
13) Acrolein	3.62	56	289	0.716	ug/l #	14
16) Acetone	3.83	43	10294	Below Cal		90
18) Methyl Acetate	4.34	43	6412	1.223	ug/l #	83
20) Methylene Chloride	4.56	84	4413	0.565	ug/l #	79
25) 2-Butanone	6.84	43	718	0.262	ug/l #	65
31) Cyclohexane	7.67	56	13751	1.066	ug/l #	41
36) 1,1-Dichloropropene	7.67	75	48145	4.494	ug/l #	50
38) Carbon Tetrachloride	7.67	117	64068	4.983	ug/l #	15
41) Methacrylonitrile	7.19	41	287	Below Cal	#	31
43) Isopropyl Acetate	8.17	43	311697	26.755	ug/l	96
48) Methyl methacrylate	9.19	41	5593	1.051	ug/l #	12
51) 4-Methyl-2-Pentanone	9.99	43	1331	0.225	ug/l	88
59) 2-Hexanone	10.77	43	18237	4.549	ug/l #	51
71) Bromoform	12.41	173	3509	0.523	ug/l #	1
74) N-amyl acetate	12.04	43	181	Below Cal	#	74
75) 1,1,2,2-Tetrachloroethane	12.40	83	626	Below Cal	#	1
76) 1,2,3-Trichloropropane	12.40	75	230745	51.478	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	6040	0.233	ug/l	87
81) trans-1,4-Dichloro-2-buten	12.40	75	230745	117.299	ug/l #	14

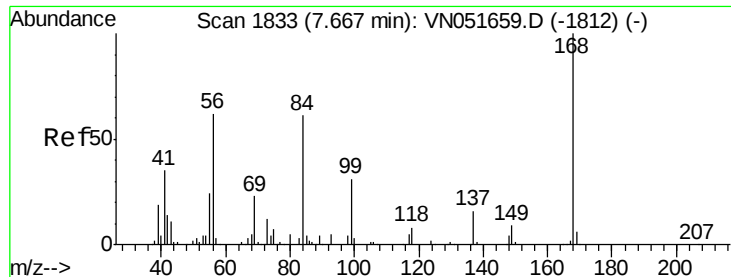
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Fri Oct 05 02:22:33 2018
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1834

Delta R.T. 0.00 min

Lab File: VN051728.D

Acq: 8 Oct 2018 12:06

Instrument :

MSVOA_N

ClientSampleId :

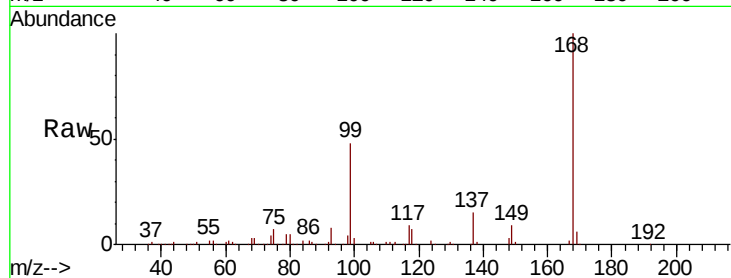
PB113584ZHE#03

Tot Ion:168 Resp: 719174

Ion Ratio Lower Upper

168 100

99 48.1 40.4 60.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.67

300000

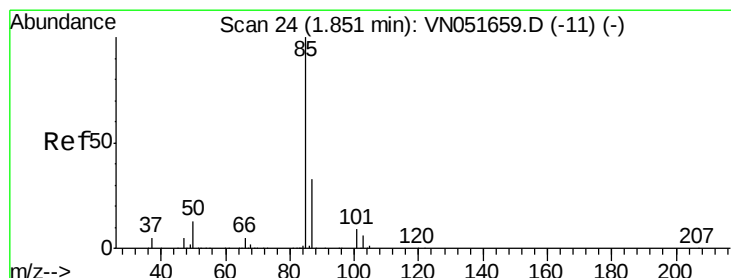
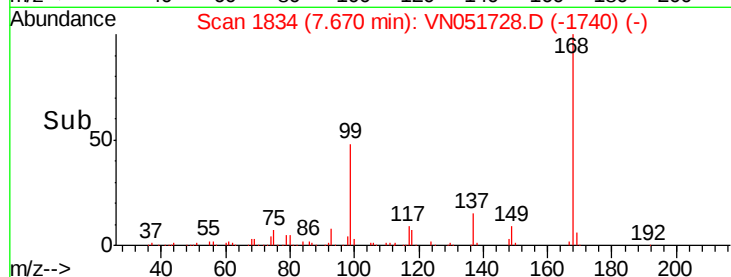
200000

100000

0

Time-->

7.60 7.70 7.80



#2

Dichlorodifluoromethane

Concen: 1.152 ug/l

RT: 1.86 min Scan# 26

Delta R.T. 0.01 min

Lab File: VN051728.D

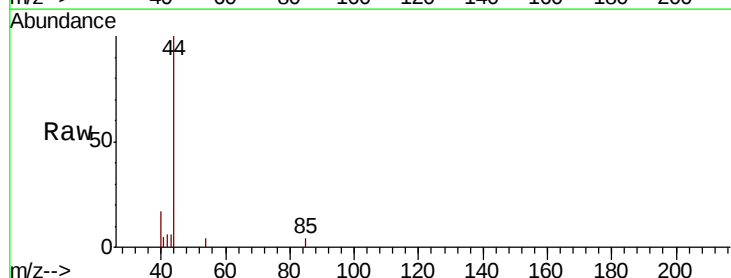
Acq: 8 Oct 2018 12:06

Tgt Ion: 85 Resp: 30

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

1.86

150

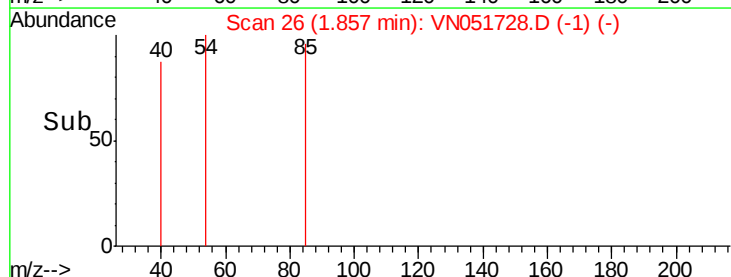
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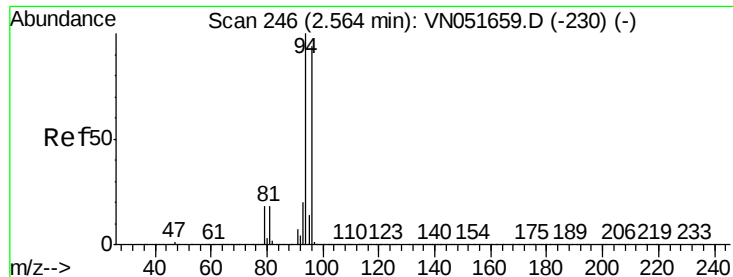
50

0

Time-->

1.85 1.85 1.86 1.86 1.87





#5

Bromomethane

Concen: 0.227 ug/l

RT: 2.57 min Scan# 248

Delta R.T. 0.01 min

Lab File: VN051728.D

Acq: 8 Oct 2018 12:06

Instrument :

MSVOA_N

ClientSampleId :

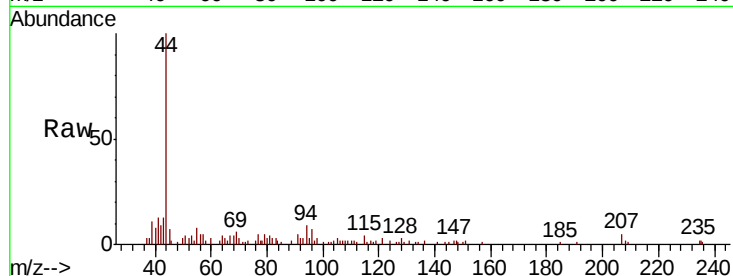
PB113584ZHE#03

Tot Ion: 94 Resp: 2258

Ion Ratio Lower Upper

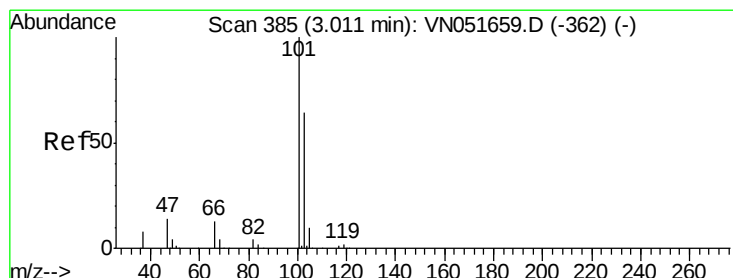
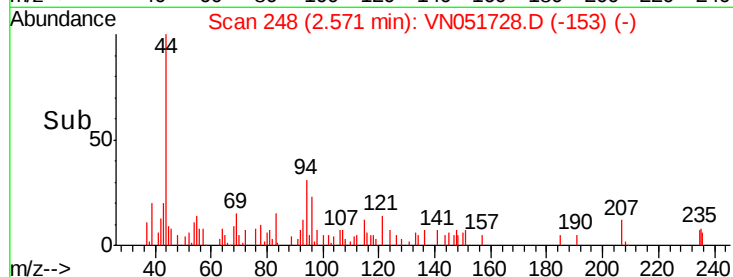
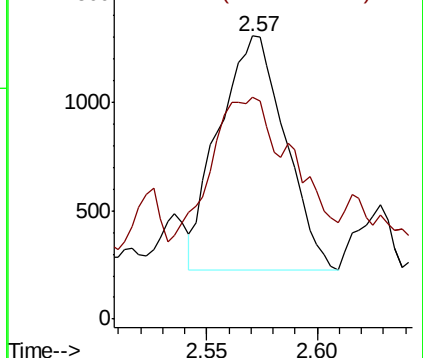
94 100

96 53.4 75.2 112.8#



Abundance Ion 93.90 (93.60 to 94.60): VN051728.D (-153) (-)

Ion 95.90 (95.60 to 96.60): VN051728.D (-153) (-)



#7

Trichlorofluoromethane

Concen: Below Cal

RT: 3.00 min Scan# 381

Delta R.T. -0.01 min

Lab File: VN051728.D

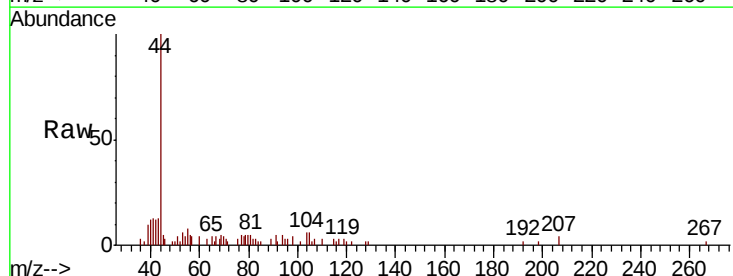
Acq: 8 Oct 2018 12:06

Tgt Ion: 101 Resp: 60

Ion Ratio Lower Upper

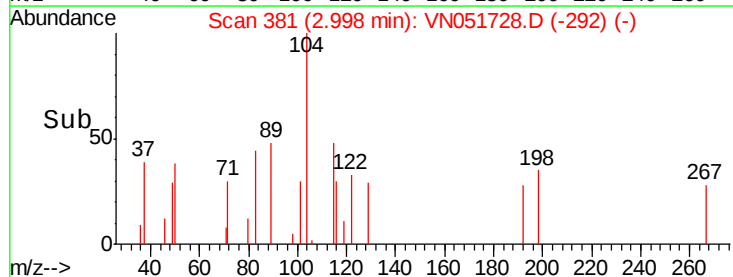
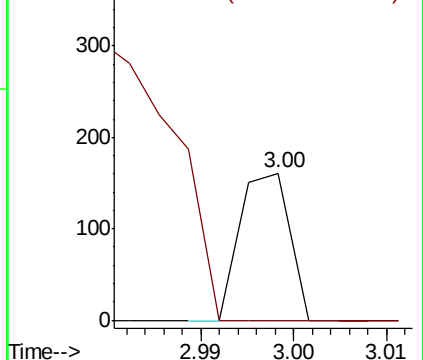
101 100

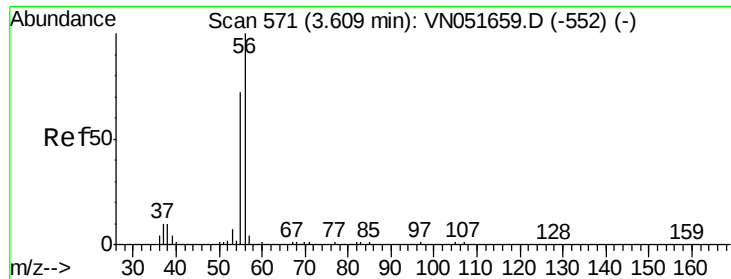
103 0.0 51.1 76.7#



Abundance Ion 100.90 (100.60 to 101.60): VN051728.D (-292) (-)

Ion 102.80 (102.50 to 103.50): VN051728.D (-292) (-)

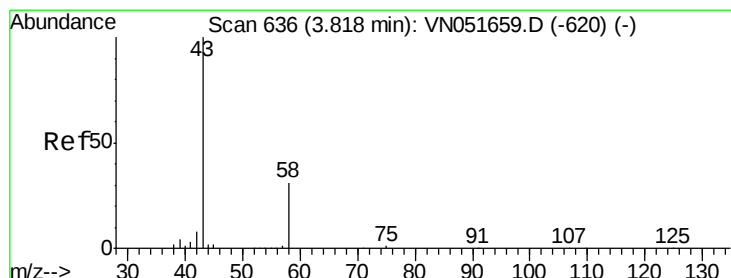
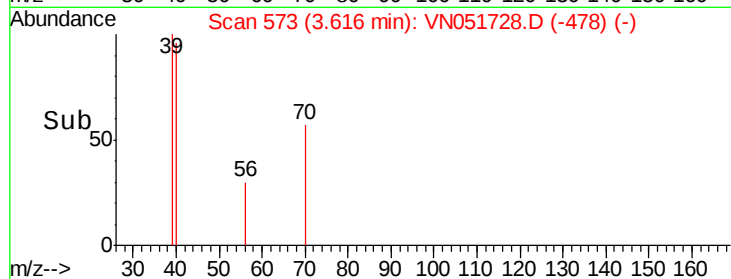
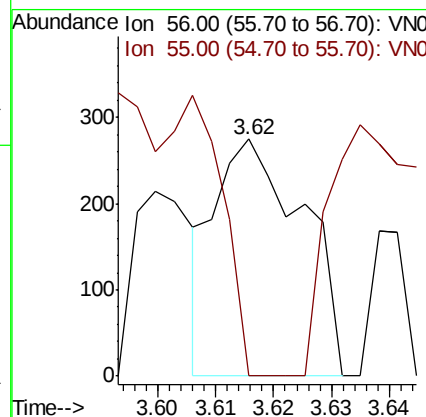
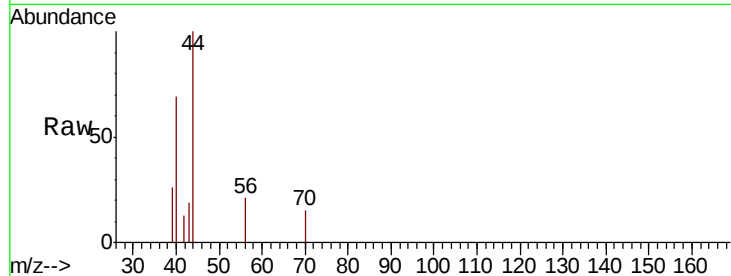




#13
Acrolein
Concen: 0.716 ug/l
RT: 3.62 min Scan# 573
Delta R.T. 0.01 min
Lab File: VN051728.D
Acq: 8 Oct 2018 12:06

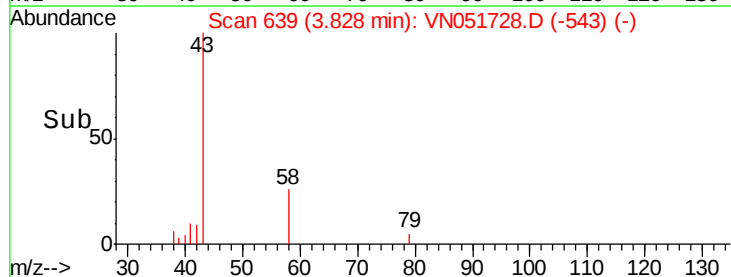
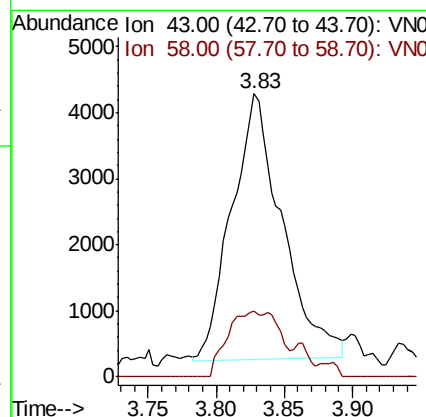
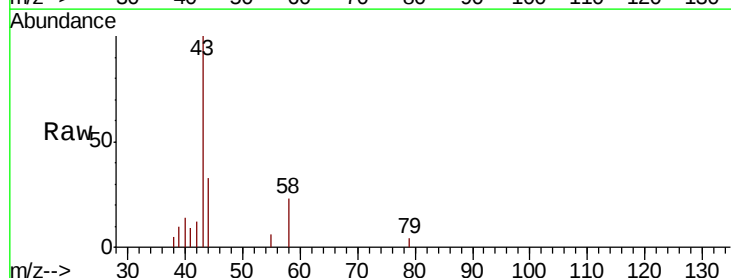
Instrument :
MSVOA_N
ClientSampleId :
PB113584ZHE#03

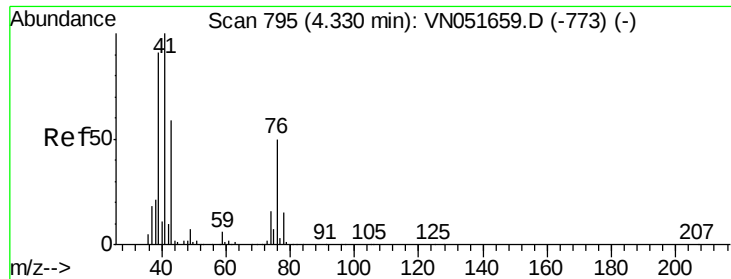
Tot Ion: 56 Resp: 289
Ion Ratio Lower Upper
56 100
55 0.0 57.5 86.3#



#16
Acetone
Concen: Below Cal
RT: 3.83 min Scan# 639
Delta R.T. 0.01 min
Lab File: VN051728.D
Acq: 8 Oct 2018 12:06

Tgt Ion: 43 Resp: 10294
Ion Ratio Lower Upper
43 100
58 24.8 24.3 36.5

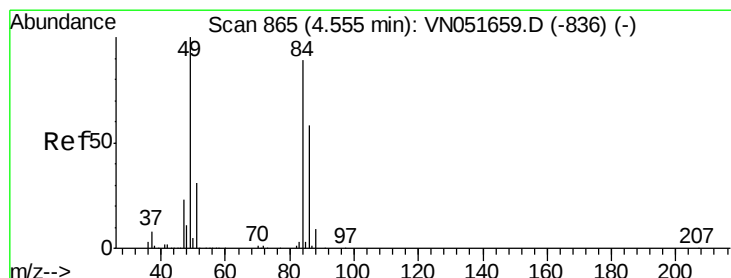
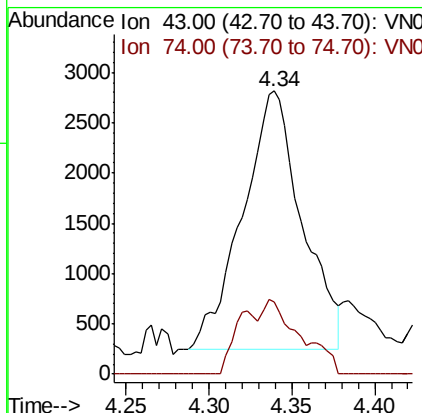
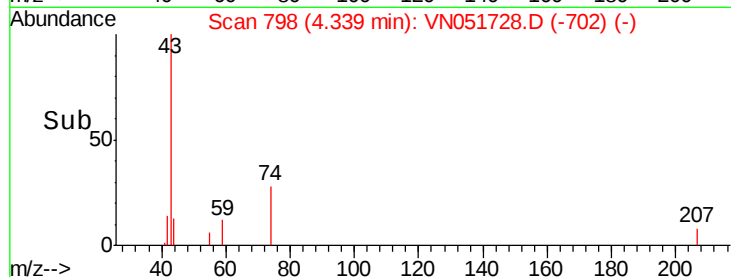
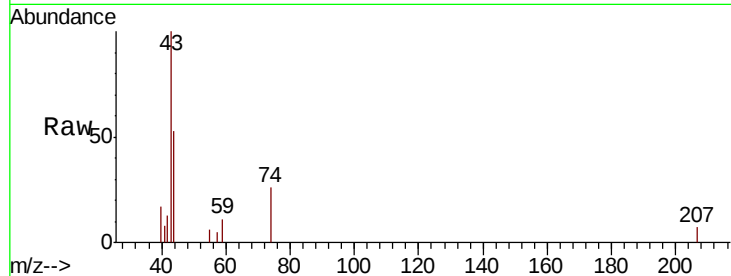




#18
Methyl Acetate
Concen: 1.223 ug/l
RT: 4.34 min Scan# 798
Delta R.T. 0.01 min
Lab File: VN051728.D
Acq: 8 Oct 2018 12:06

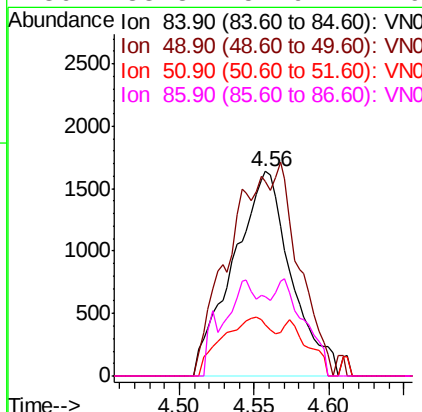
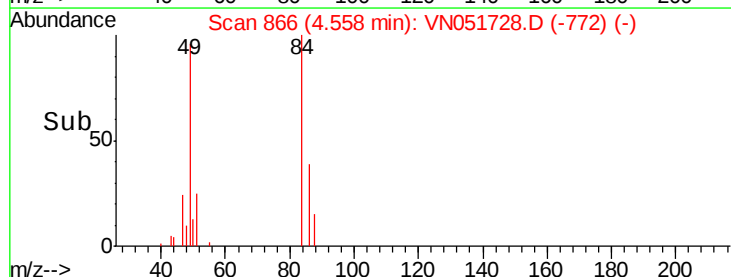
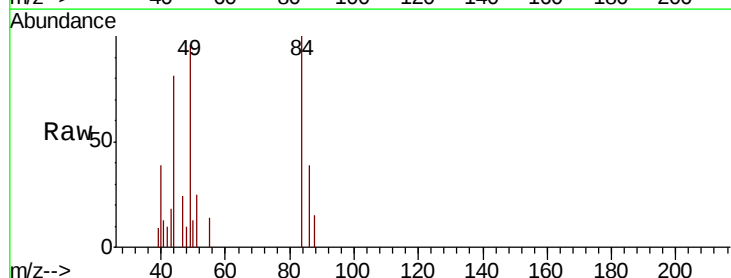
Instrument :
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ClientSampleId :
PB113584ZHE#03

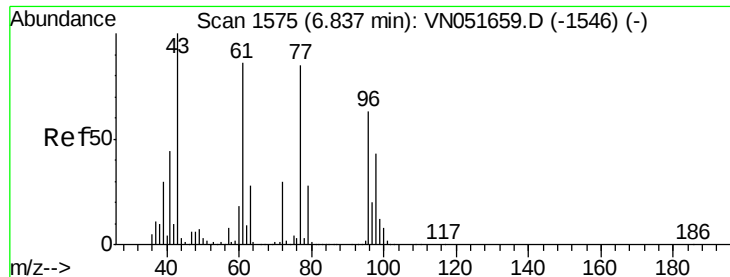
Tot Ion: 43 Resp: 6412
Ion Ratio Lower Upper
43 100
74 18.3 21.5 32.3#



#20
Methylene Chloride
Concen: 0.565 ug/l
RT: 4.56 min Scan# 866
Delta R.T. 0.00 min
Lab File: VN051728.D
Acq: 8 Oct 2018 12:06

Tgt Ion: 84 Resp: 4413
Ion Ratio Lower Upper
84 100
49 95.5 89.5 134.3
51 25.2 27.4 41.0#
86 38.8 51.9 77.9#

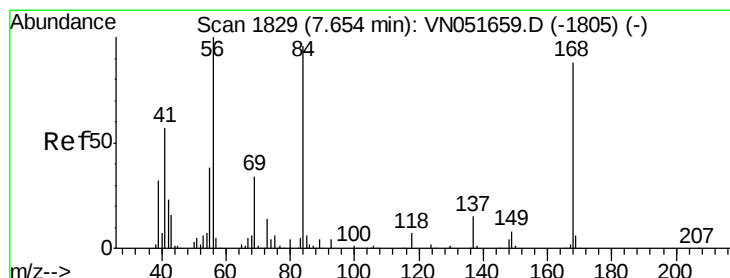
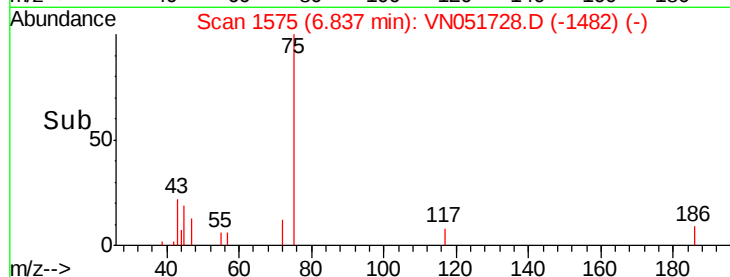
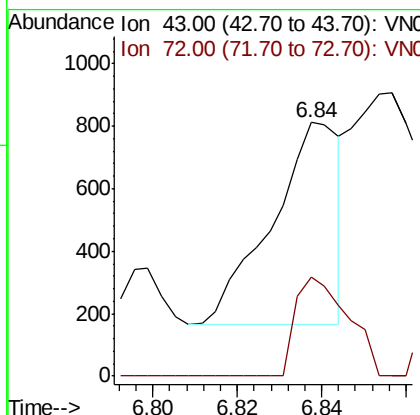
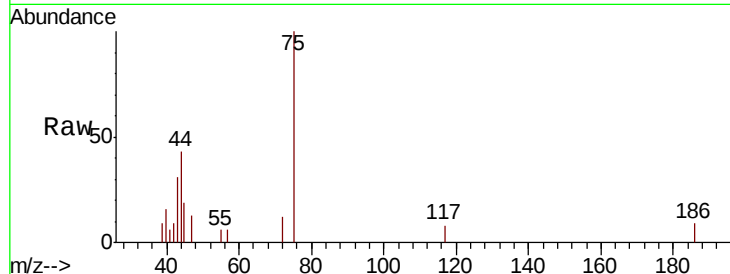




#25
2-Butanone
Concen: 0.262 ug/l
RT: 6.84 min Scan# 1575
Delta R.T. -0.00 min
Lab File: VN051728.D
Acq: 8 Oct 2018 12:06

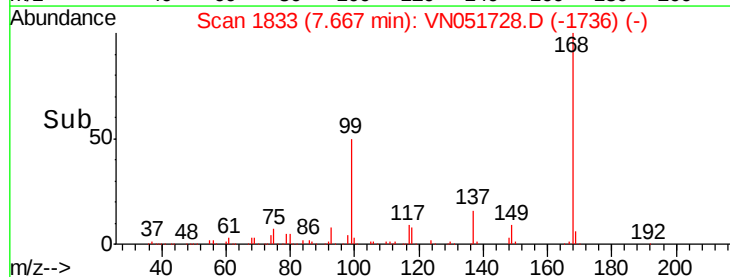
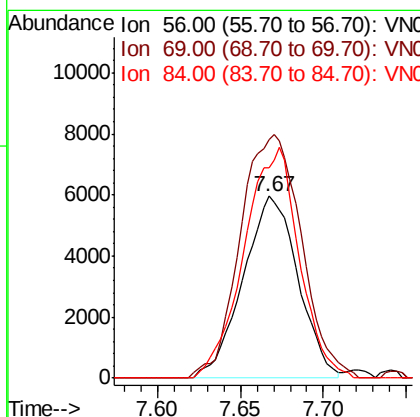
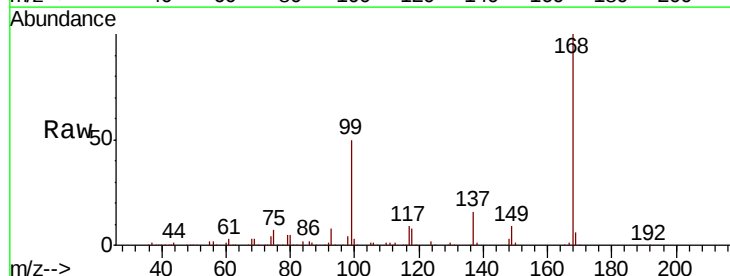
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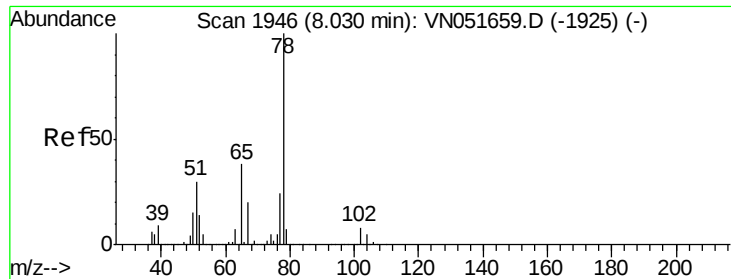
Tot Ion: 43 Resp: 718
Ion Ratio Lower Upper
43 100
72 49.3 24.2 36.2#



#31
Cyclohexane
Concen: 1.066 ug/l
RT: 7.67 min Scan# 1833
Delta R.T. 0.01 min
Lab File: VN051728.D
Acq: 8 Oct 2018 12:06

Tgt Ion: 56 Resp: 13751
Ion Ratio Lower Upper
56 100
69 130.9 27.5 41.3#
84 115.6 76.7 115.1#

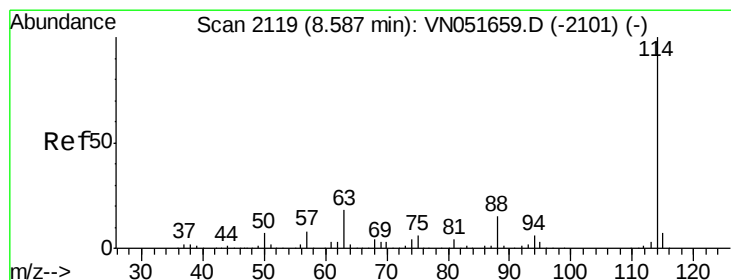
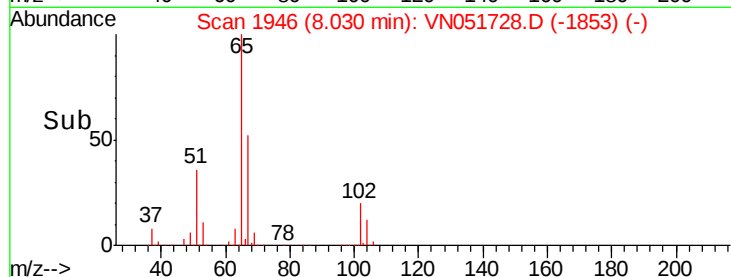
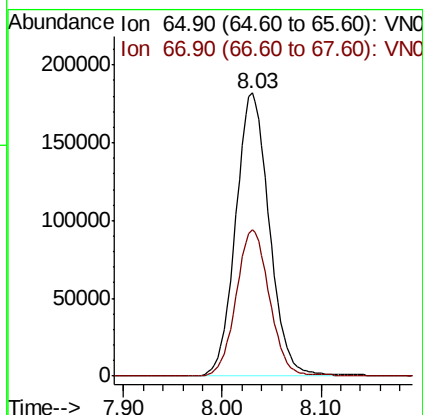
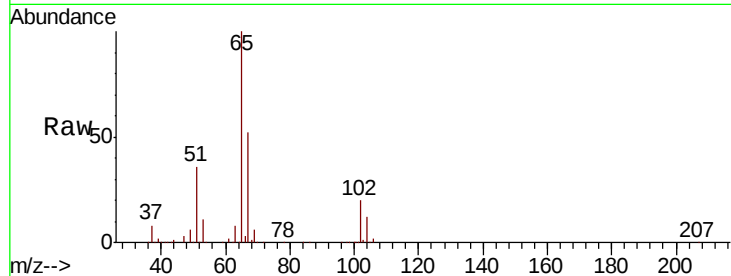




#33
 1,2-Dichloroethane-d4
 Concen: Below ug/l
 RT: 8.03 min Scan# 1946
 Delta R.T. -0.00 min
 Lab File: VN051728.D
 Acq: 8 Oct 2018 12:06

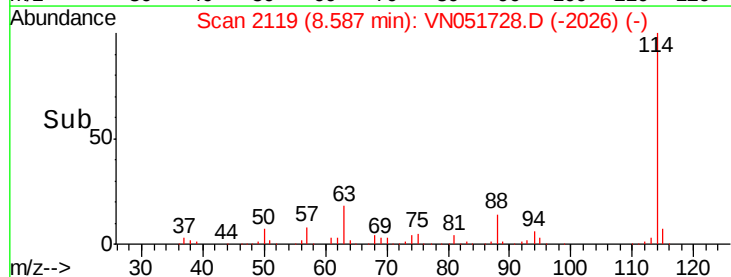
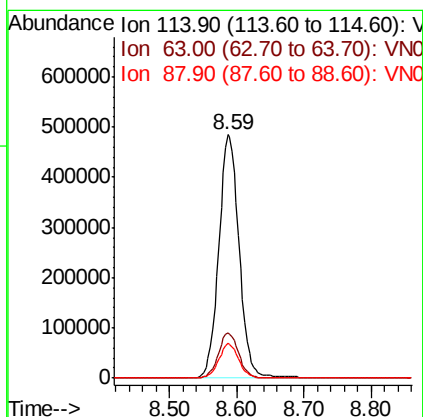
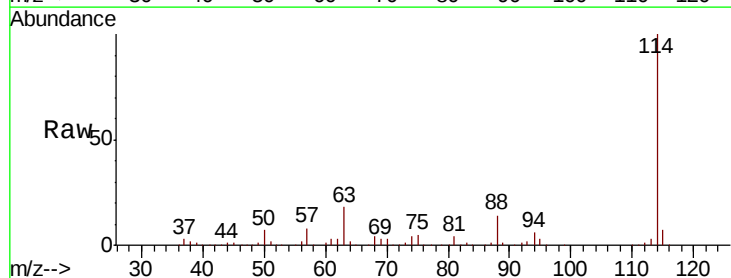
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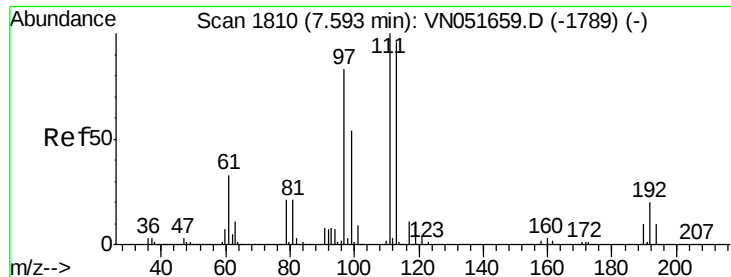
Tot Ion: 65 Resp: 429872
 Ion Ratio Lower Upper
 65 100
 67 51.3 0.0 103.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. -0.00 min
 Lab File: VN051728.D
 Acq: 8 Oct 2018 12:06

Tgt Ion: 114 Resp: 1025010
 Ion Ratio Lower Upper
 114 100
 63 18.5 0.0 36.2
 88 14.1 0.0 30.2

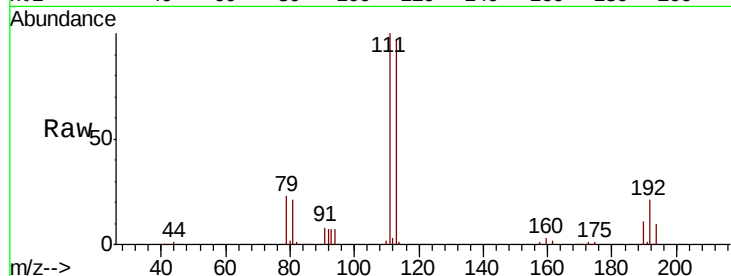




#35
Dibromofluoromethane
Concen: 50.000 ug/l
RT: 7.59 min Scan# 1810
Delta R.T. -0.00 min
Lab File: VN051728.D
Acq: 8 Oct 2018 12:06

Instrument :
MSVOA_N
ClientSampleId :
PB113584ZHE#03

Tot Ion	Ratio	Lower	Upper
113	100		
111	101.3	81.8	122.8
192	21.1	16.5	24.7

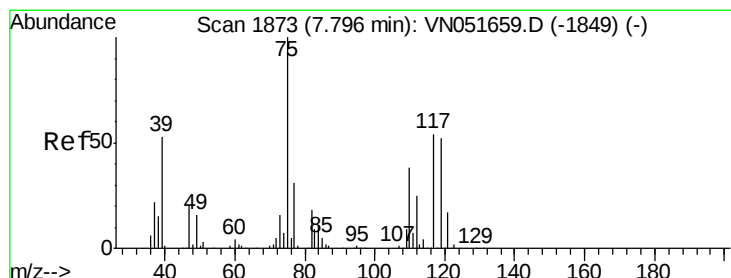
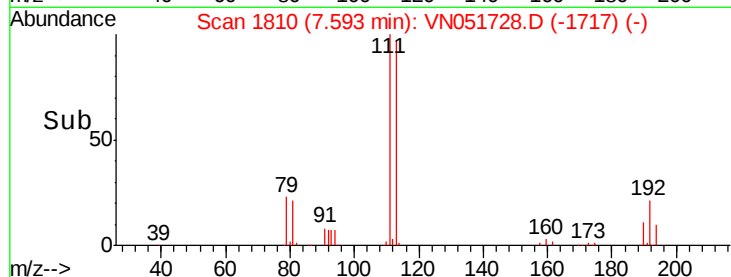
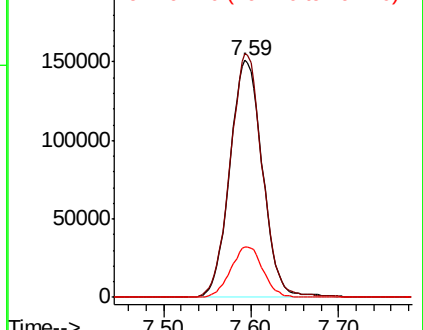


Abundance

Ion 112.80 (112.50 to 113.50): V

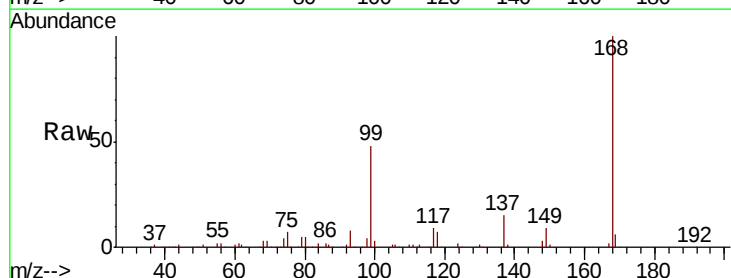
Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36
1,1-Dichloropropene
Concen: 4.494 ug/l
RT: 7.67 min Scan# 1834
Delta R.T. -0.13 min
Lab File: VN051728.D
Acq: 8 Oct 2018 12:06

Tgt Ion	Ratio	Lower	Upper
75	100		
110	10.7	19.3	57.8#
77	0.0	24.7	37.1#

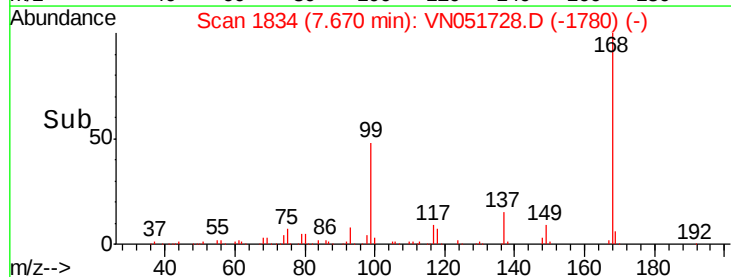
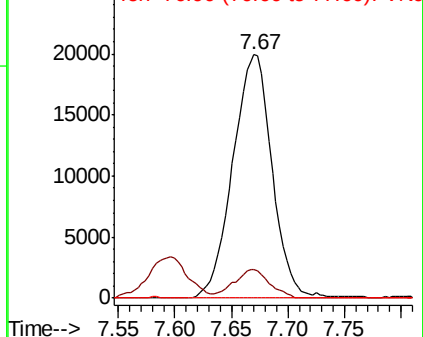


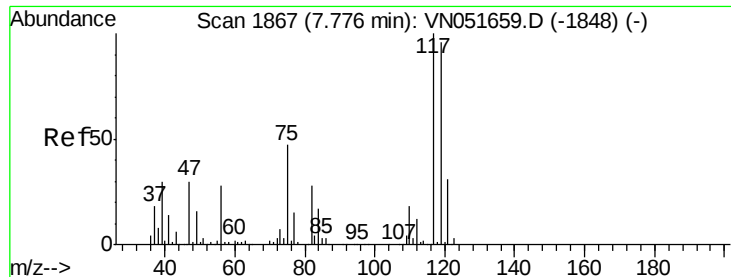
Abundance

Ion 74.90 (74.60 to 75.60): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): V





#38

Carbon Tetrachloride

Concen: 4.983 ug/l

RT: 7.67 min Scan# 1834

Delta R.T. -0.11 min

Lab File: VN051728.D

Acq: 8 Oct 2018 12:06

Instrument :

MSVOA_N

ClientSampleId :

PB113584ZHE#03

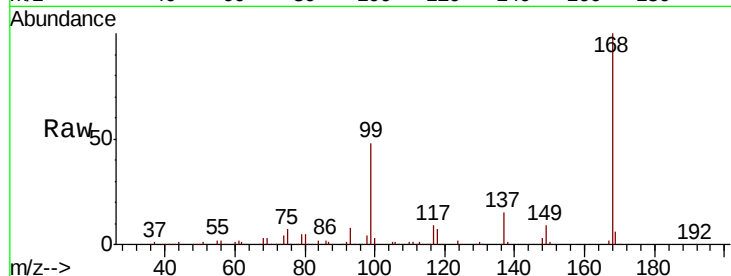
Tot Ion:117 Resp: 64068

Ion Ratio Lower Upper

117 100

119 3.9 77.0 115.6#

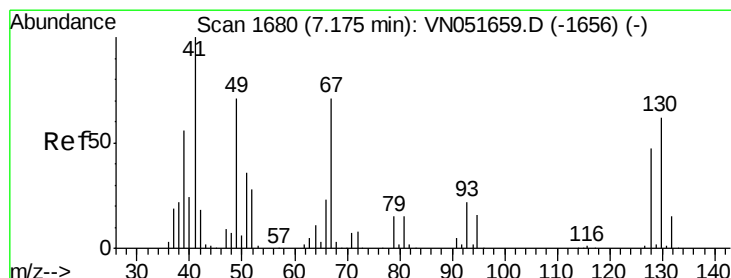
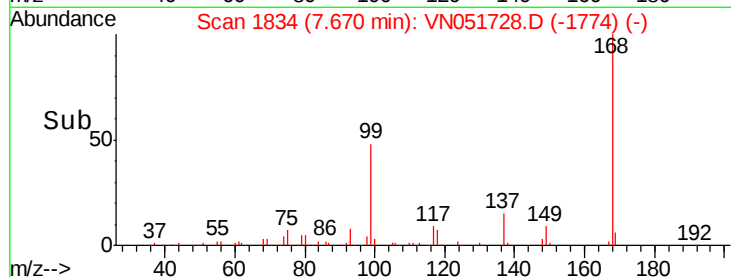
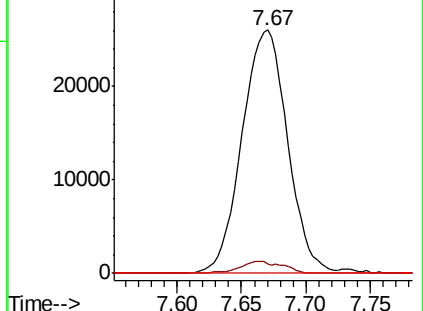
121 0.0 25.0 37.6#



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: 7.19 min Scan# 1684

Delta R.T. 0.01 min

Lab File: VN051728.D

Acq: 8 Oct 2018 12:06

Tgt Ion: 41 Resp: 287

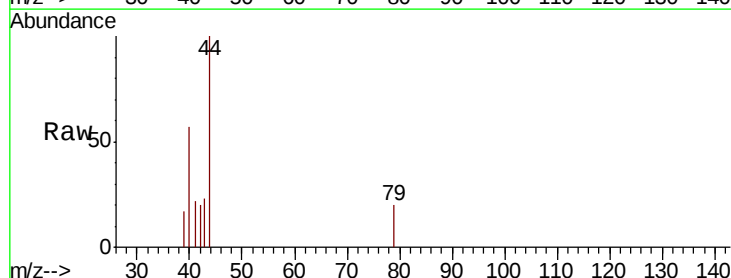
Ion Ratio Lower Upper

41 100

39 37.6 53.9 80.9#

67 0.0 78.1 117.1#

52 10.1 32.3 48.5#

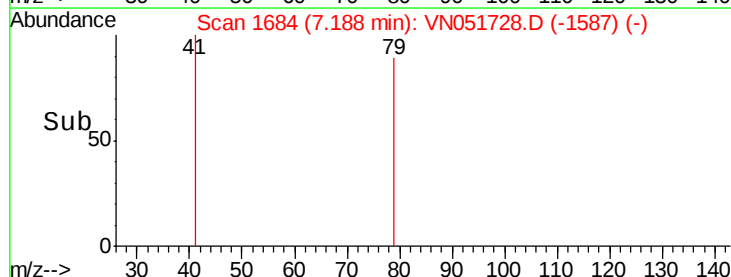
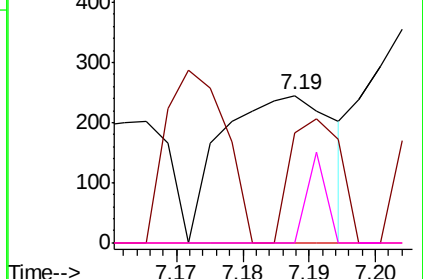


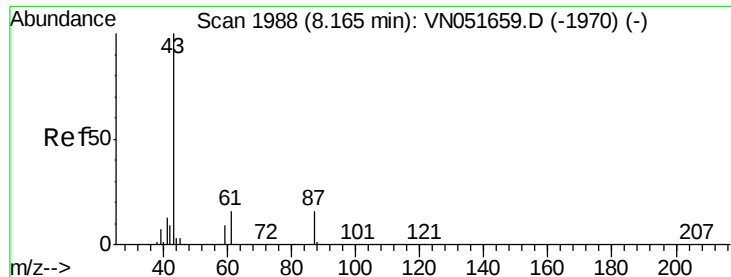
Abundance Ion 41.00 (40.70 to 41.70): VNO

Ion 39.00 (38.70 to 39.70): VNO

Ion 67.00 (66.70 to 67.70): VNO

Ion 52.00 (51.70 to 52.70): VNO





#43

Isopropyl Acetate

Concen: 26.755 ug/l

RT: 8.17 min Scan# 1989

Delta R.T. 0.00 min

Lab File: VN051728.D

Acq: 8 Oct 2018 12:06

Instrument :

MSVOA_N

ClientSampleId :

PB113584ZHE#03

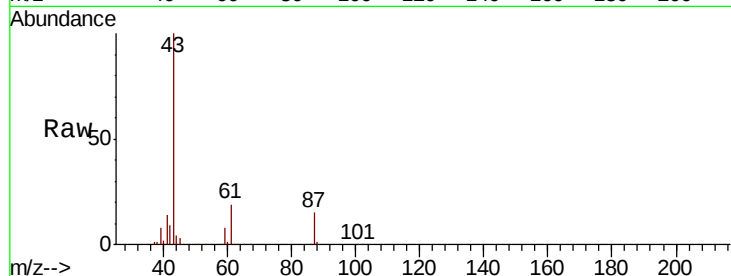
Tot Ion: 43 Resp: 311697

Ion Ratio Lower Upper

43 100

61 17.9 15.8 23.6

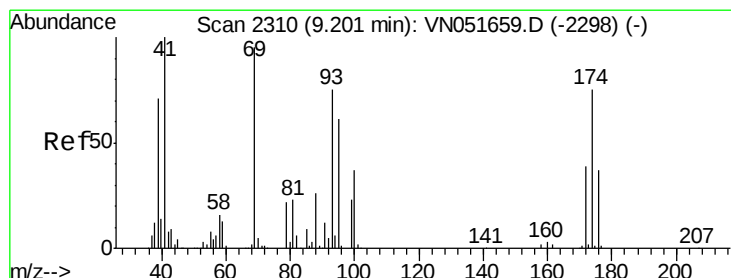
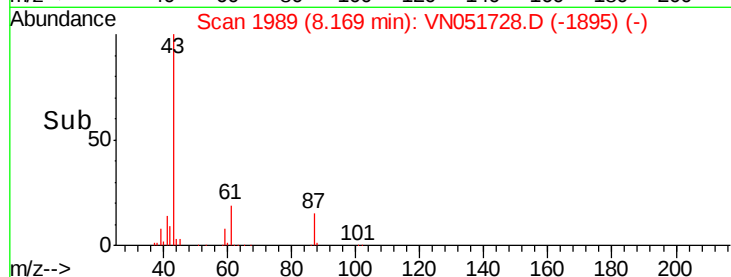
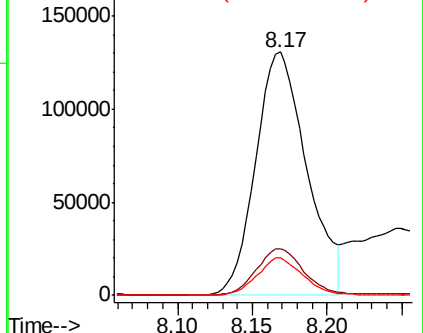
87 13.8 12.6 19.0



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0



#48

Methyl methacrylate

Concen: 1.051 ug/l

RT: 9.19 min Scan# 2306

Delta R.T. -0.01 min

Lab File: VN051728.D

Acq: 8 Oct 2018 12:06

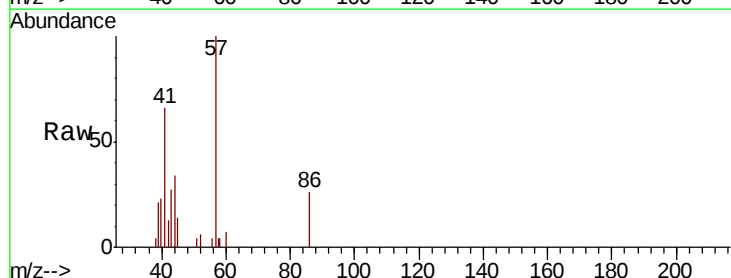
Tgt Ion: 41 Resp: 5593

Ion Ratio Lower Upper

41 100

69 0.0 78.6 118.0#

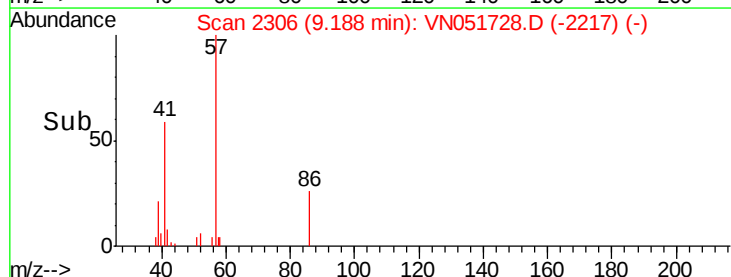
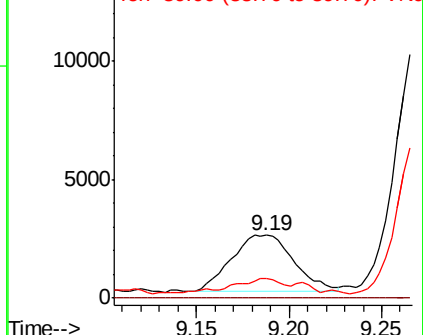
39 12.6 59.2 88.8#

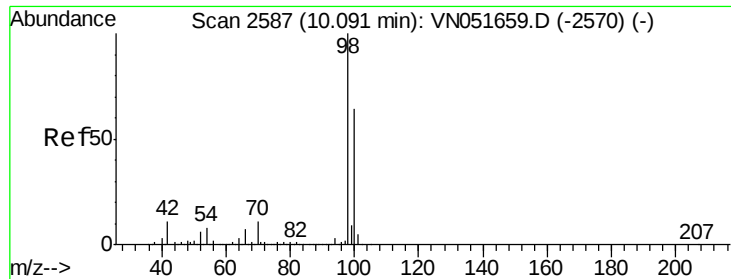


Abundance Ion 41.00 (40.70 to 41.70): VN0

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: VN051728.D

Acq: 8 Oct 2018 12:06

Instrument :

MSVOA_N

ClientSampleId :

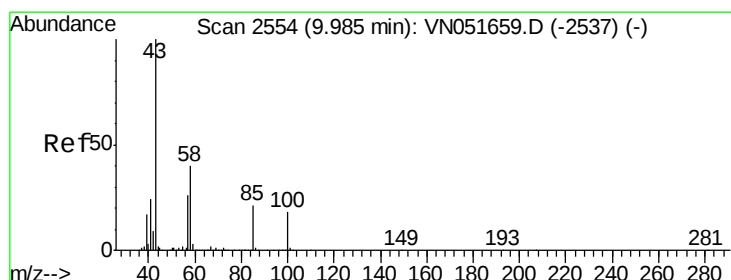
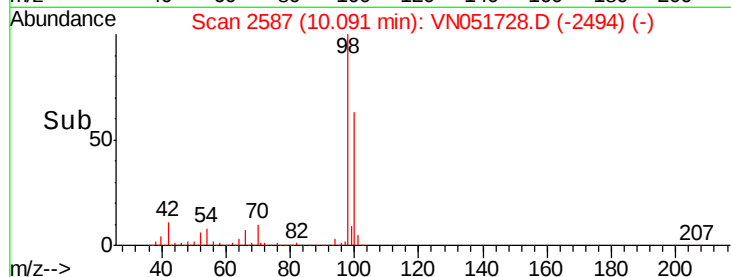
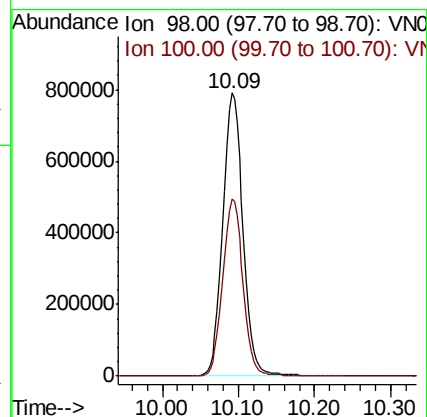
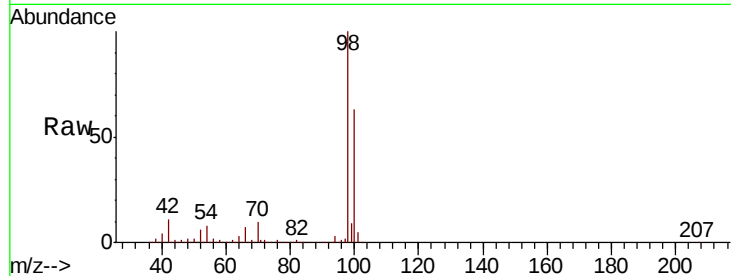
PB113584ZHE#03

Tot Ion: 98 Resp: 1460296

Ion Ratio Lower Upper

98 100

100 62.8 51.5 77.3



#51

4-Methyl-2-Pentanone

Concen: 0.225 ug/l

RT: 9.99 min Scan# 2556

Delta R.T. 0.01 min

Lab File: VN051728.D

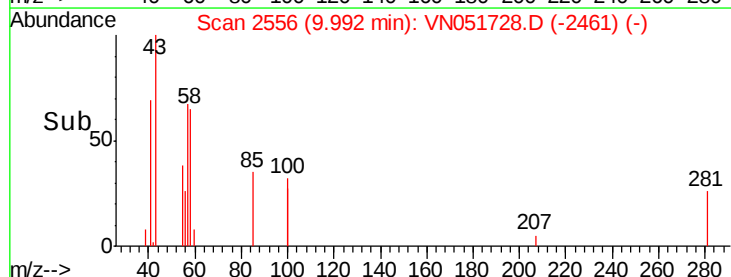
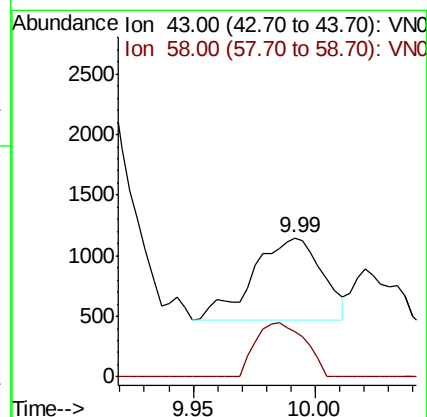
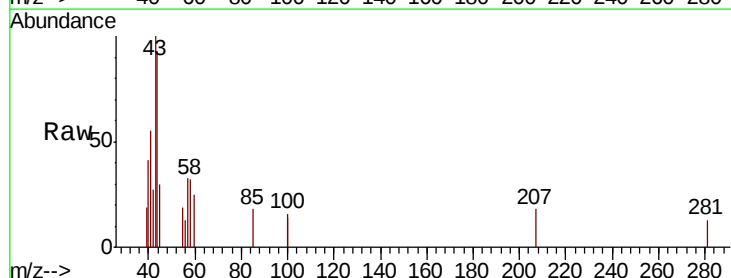
Acq: 8 Oct 2018 12:06

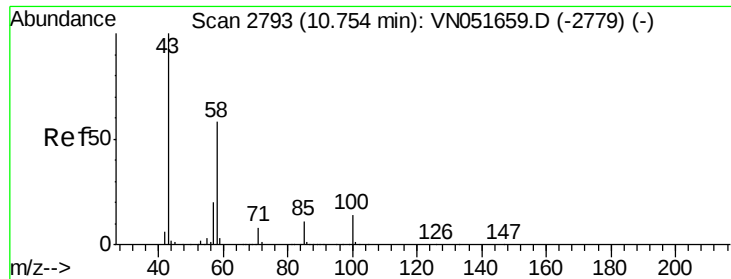
Tgt Ion: 43 Resp: 1331

Ion Ratio Lower Upper

43 100

58 47.3 32.2 48.2

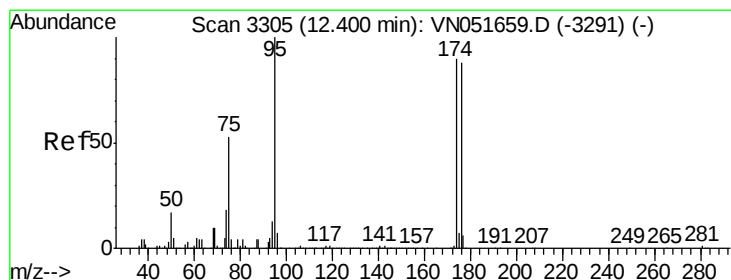
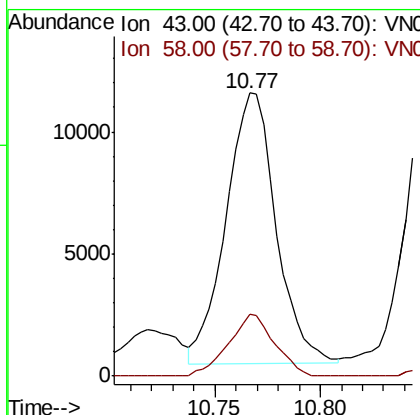
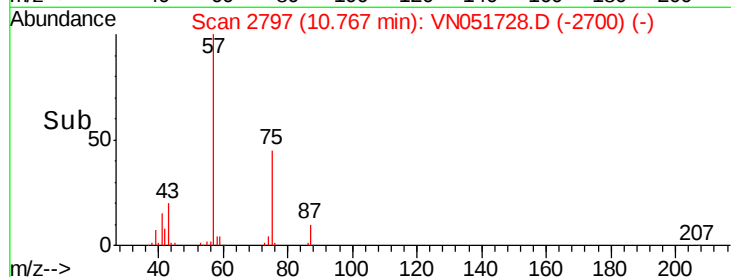
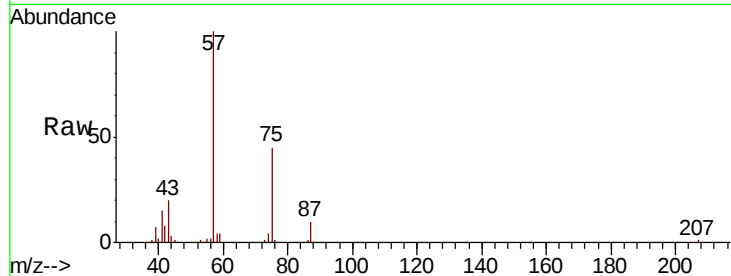




#59
2-Hexanone
Concen: 4.549 ug/l
RT: 10.77 min Scan# 2797
Delta R.T. 0.01 min
Lab File: VN051728.D
Acq: 8 Oct 2018 12:06

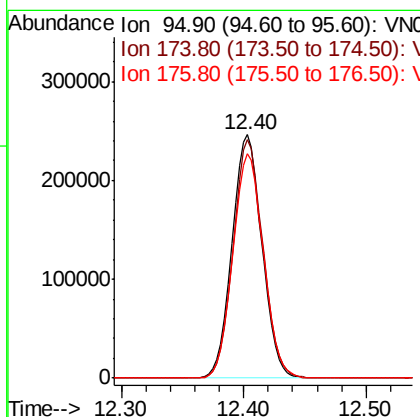
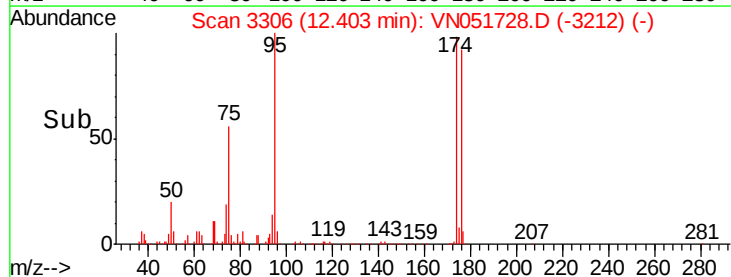
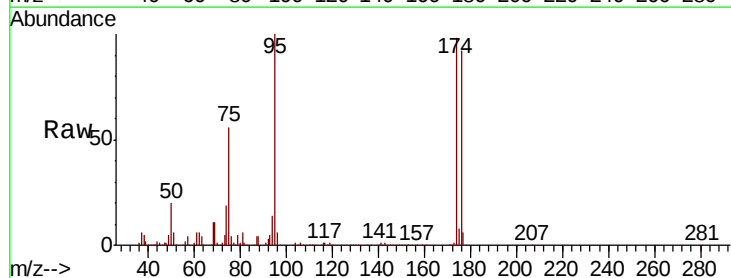
Instrument :
MSVOA_N
ClientSampleId :
PB113584ZHE#03

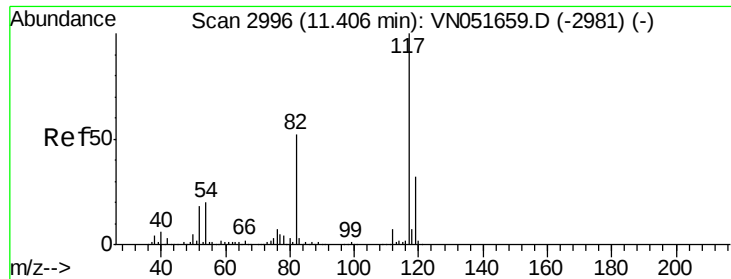
Tot Ion: 43 Resp: 18237
Ion Ratio Lower Upper
43 100
58 21.0 28.8 86.4#



#62
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN051728.D
Acq: 8 Oct 2018 12:06

Tgt Ion: 95 Resp: 418549
Ion Ratio Lower Upper
95 100
174 97.5 0.0 182.8
176 94.1 0.0 176.4

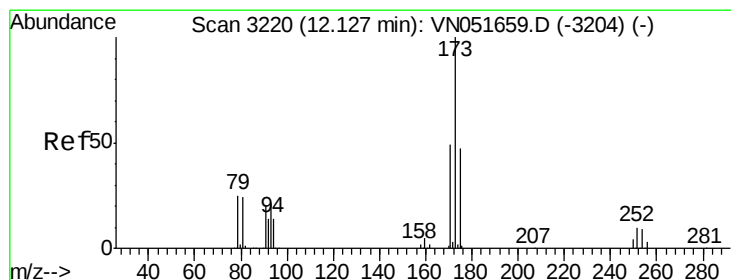
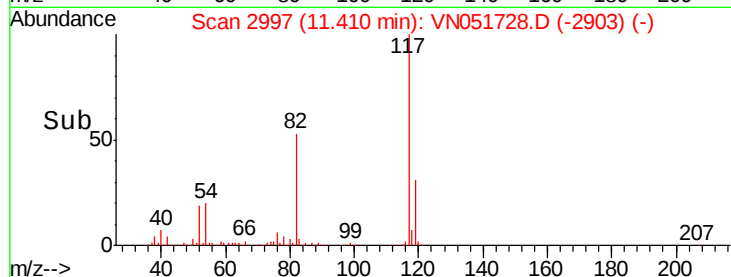
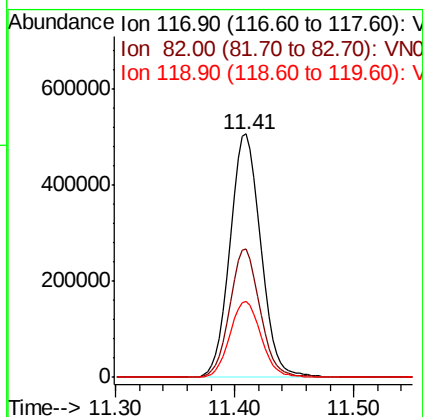
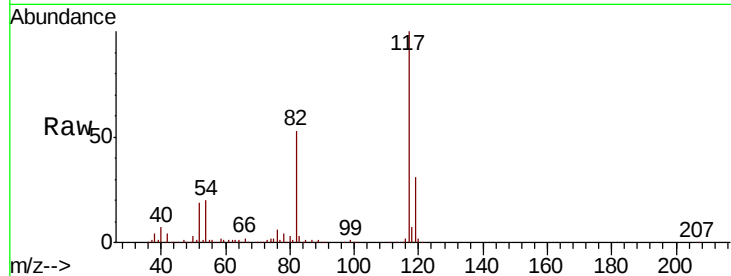




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2997
Delta R.T. 0.00 min
Lab File: VN051728.D
Acq: 8 Oct 2018 12:06

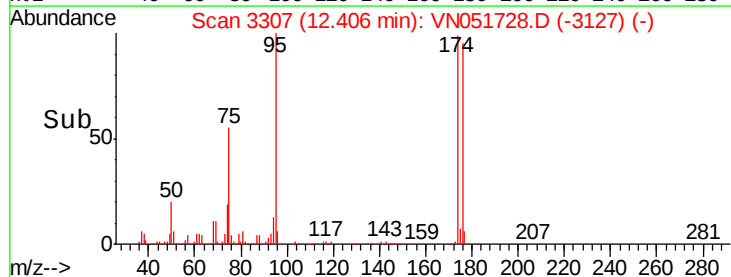
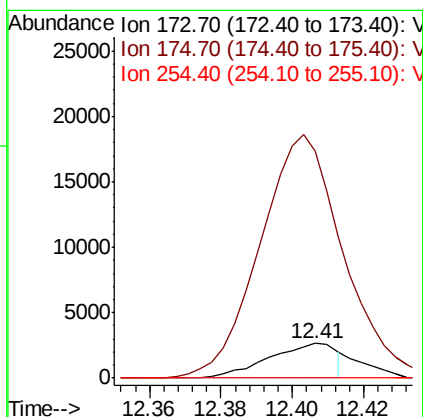
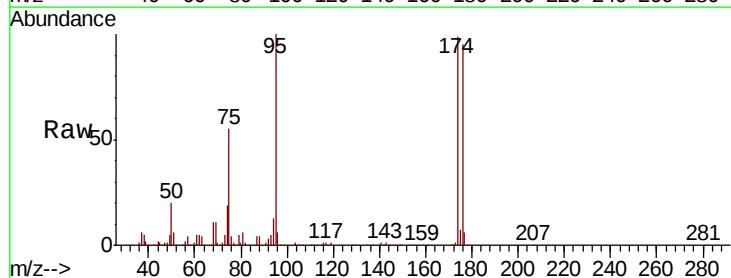
Instrument :
MSVOA_N
ClientSampleId :
PB113584ZHE#03

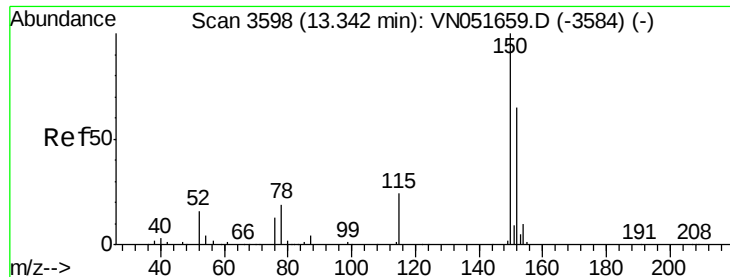
Tot Ion:117 Resp: 910288
Ion Ratio Lower Upper
117 100
82 52.7 41.3 61.9
119 31.0 25.9 38.9



#71
Bromoform
Concen: 0.523 ug/l
RT: 12.41 min Scan# 3307
Delta R.T. 0.28 min
Lab File: VN051728.D
Acq: 8 Oct 2018 12:06

Tgt Ion:173 Resp: 3509
Ion Ratio Lower Upper
173 100
175 727.2 24.0 72.0#
254 0.0 0.1 0.1#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN051728.D

Acq: 8 Oct 2018 12:06

Instrument :

MSVOA_N

ClientSampleId :

PB113584ZHE#03

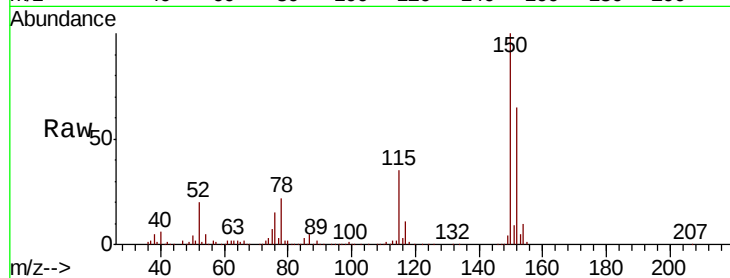
Tot Ion:152 Resp: 361600

Ion Ratio Lower Upper

152 100

115 54.4 28.6 85.8

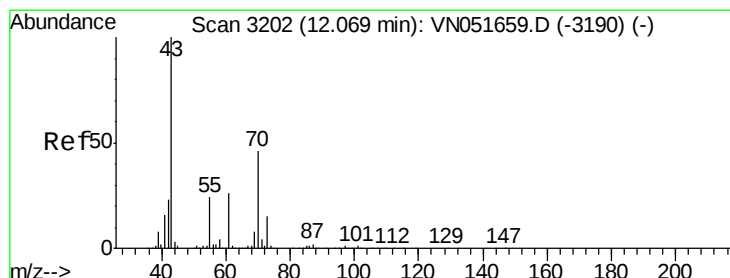
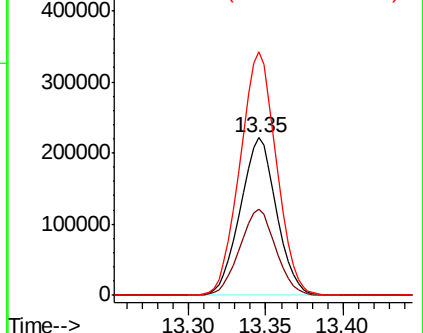
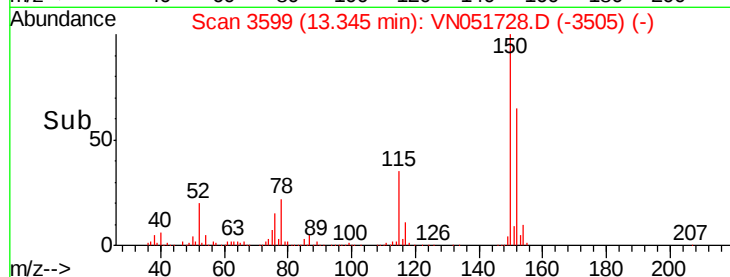
150 155.2 0.0 352.4



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: 12.04 min Scan# 3193

Delta R.T. -0.03 min

Lab File: VN051728.D

Acq: 8 Oct 2018 12:06

Tgt Ion: 43 Resp: 181

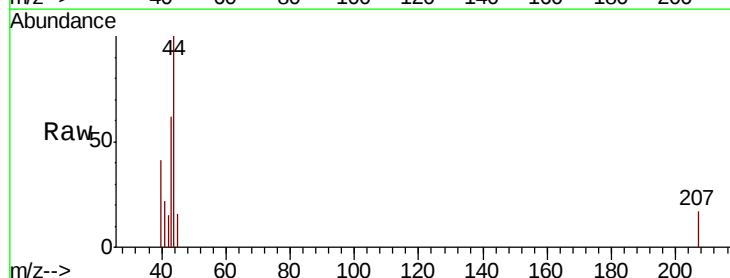
Ion Ratio Lower Upper

43 100

70 37.0 37.1 55.7#

55 33.7 19.1 28.7#

61 0.0 20.8 31.2#

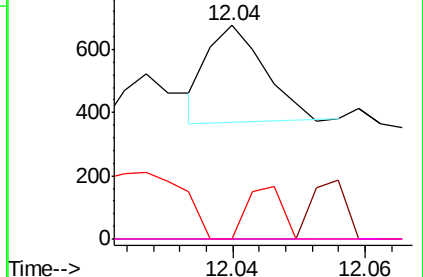
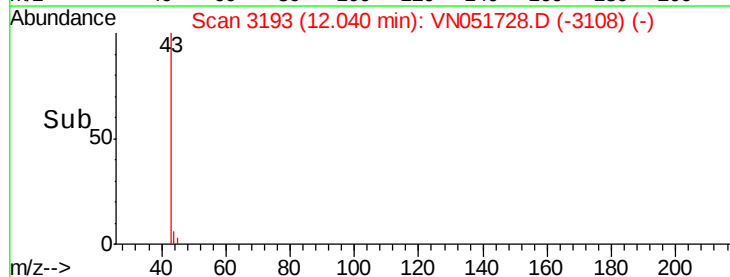


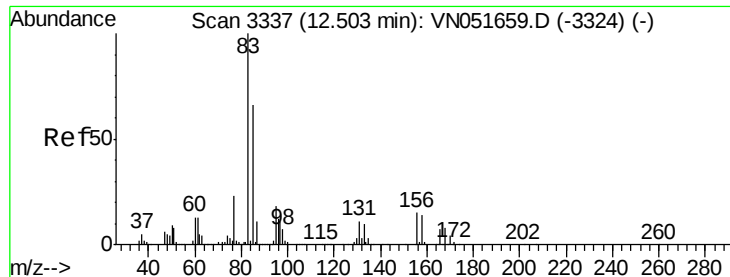
Abundance Ion 43.00 (42.70 to 43.70): V

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: 12.40 min Scan# 3305

Delta R.T. -0.10 min

Lab File: VN051728.D

Acq: 8 Oct 2018 12:06

Instrument :

MSVOA_N

ClientSampleId :

PB113584ZHE#03

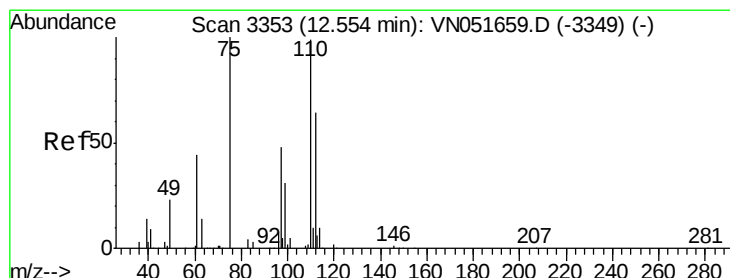
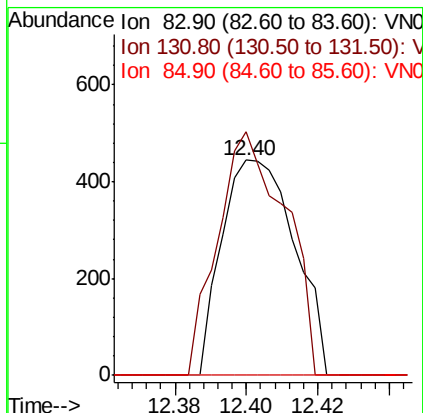
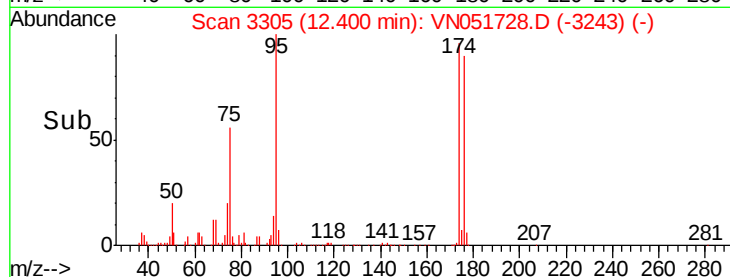
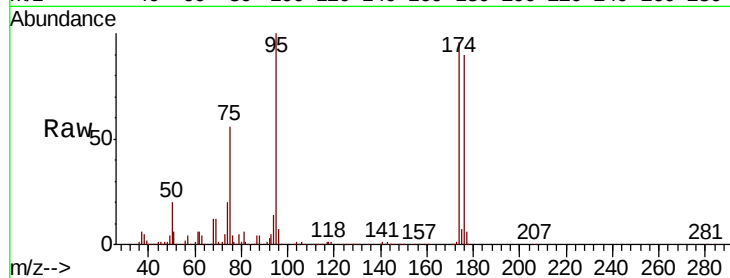
Tot Ion: 83 Resp: 626

Ion Ratio Lower Upper

83 100

131 105.4 5.7 17.1#

85 0.0 33.0 98.9#



#76

1,2,3-Trichloropropane

Concen: 51.478 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN051728.D

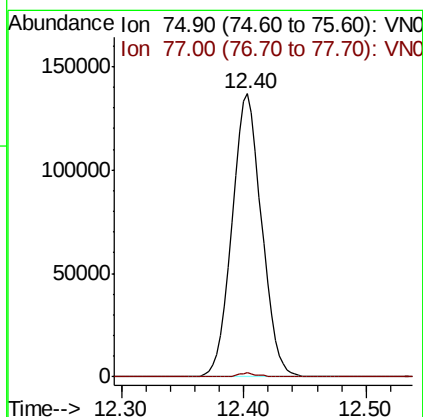
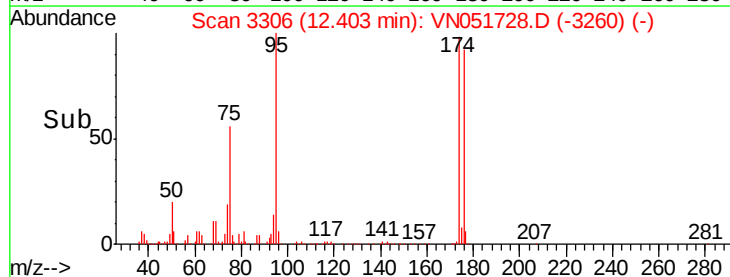
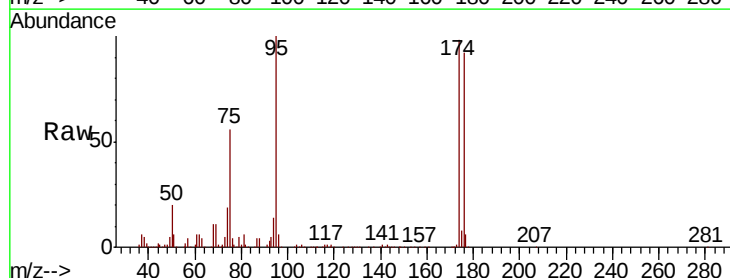
Acq: 8 Oct 2018 12:06

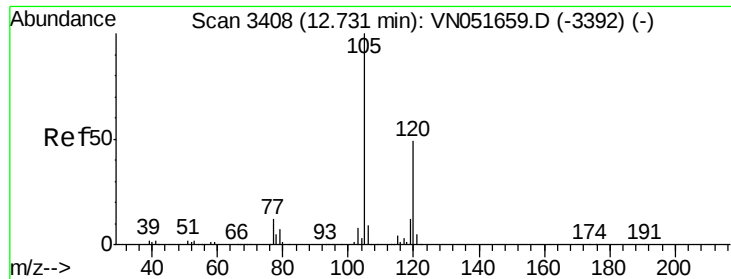
Tgt Ion: 75 Resp: 230745

Ion Ratio Lower Upper

75 100

77 1.0 0.0 0.0#





#80

1,3,5-Trimethylbenzene

Concen: 0.233 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. 0.00 min

Lab File: VN051728.D

Acq: 8 Oct 2018 12:06

Instrument :

MSVOA_N

ClientSampleId :

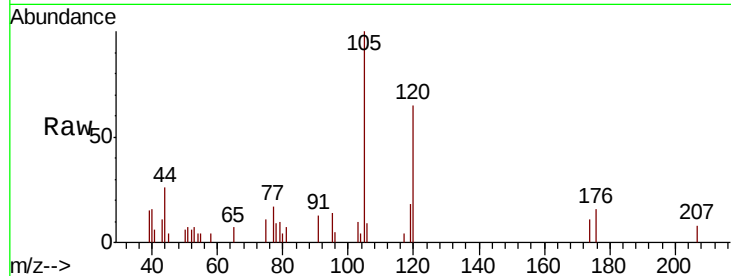
PB113584ZHE#03

Tot Ion:105 Resp: 6040

Ion Ratio Lower Upper

105 100

120 58.0 24.6 74.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

12.73

4000

3000

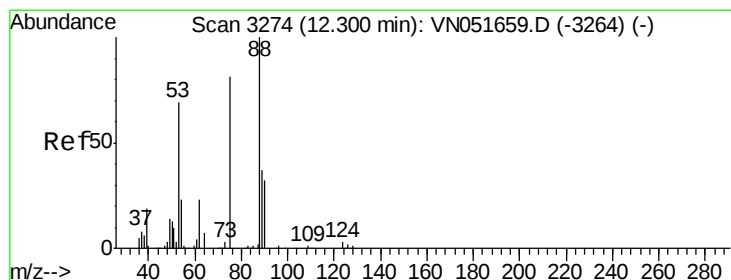
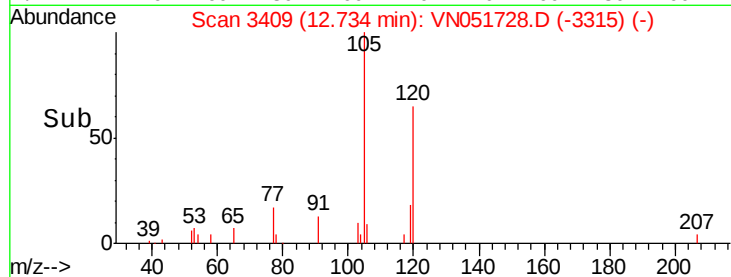
2000

1000

0

12.70 12.75

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 117.299 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN051728.D

Acq: 8 Oct 2018 12:06

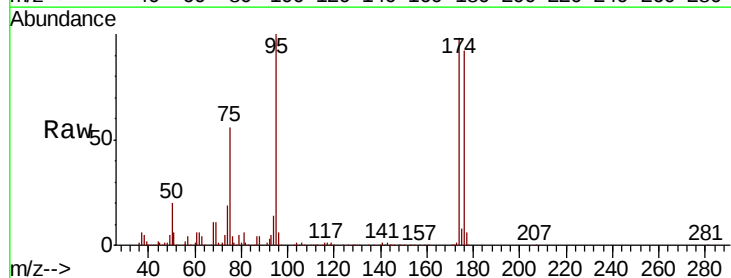
Tgt Ion: 75 Resp: 230745

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

150000

100000

50000

0

12.30 12.40 12.50

Time-->

