

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN081718\
 Data File : VN050729.D
 Acq On : 17 Aug 2018 14:48
 Operator : MD\SY
 Sample : PB112140ZHE#03
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Aug 17 23:14:03 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N081418W.M
 Quant Title : SW846 8260
 QLast Update : Tue Aug 14 08:07:08 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	621701	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1031652	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	859515	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	282460	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.03	65	424473	54.17	ug/l	0.00
Spiked Amount			Recovery	=	108.34%	
35) Dibromofluoromethane	7.59	113	390480	47.41	ug/l	0.00
Spiked Amount			Recovery	=	94.82%	
50) Toluene-d8	10.09	98	1401446	45.21	ug/l	0.00
Spiked Amount			Recovery	=	90.42%	
62) 4-Bromofluorobenzene	12.40	95	365477	35.69	ug/l	0.00
Spiked Amount			Recovery	=	71.38%	

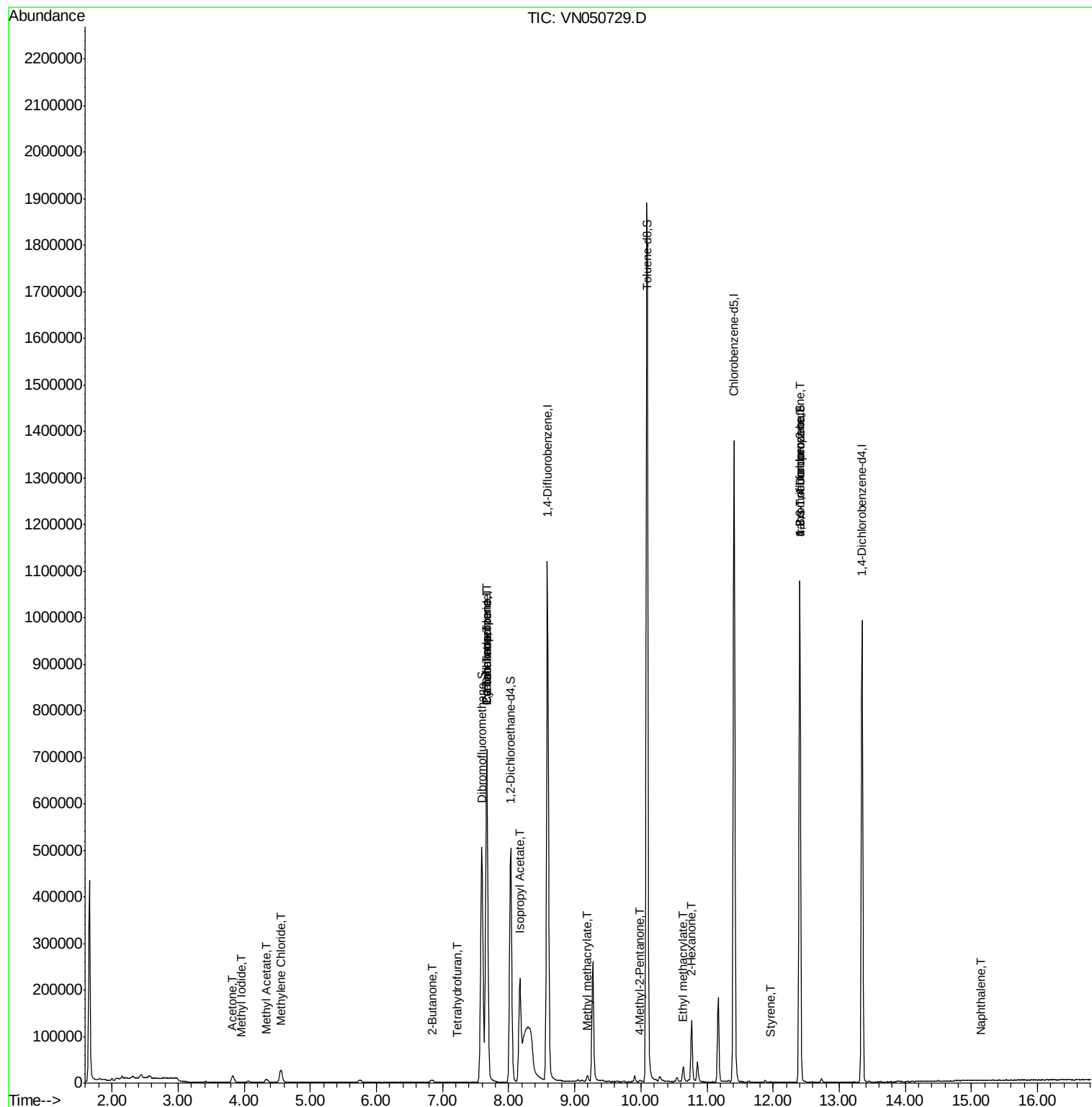
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.06	50	2381	Below Cal		95
5) Bromomethane	2.56	94	2872	Below Cal		84
6) Chloroethane	2.70	64	98	Below Cal	#	43
10) Methyl Iodide	3.96	142	715	7.07	ug/l #	52
16) Acetone	3.83	43	26228	12.02	ug/l	98
18) Methyl Acetate	4.34	43	14610	1.69	ug/l	93
20) Methylene Chloride	4.55	84	21290	1.63	ug/l	98
25) 2-Butanone	6.86	43	4131	1.29	ug/l	95
29) Tetrahydrofuran	7.23	42	738	0.44	ug/l #	39
31) Cyclohexane	7.67	56	11160	0.60	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	43596	3.80	ug/l #	48
38) Carbon Tetrachloride	7.67	117	55973	4.70	ug/l #	17
43) Isopropyl Acetate	8.17	43	280464	23.71	ug/l	96
48) Methyl methacrylate	9.18	41	7788	1.31	ug/l #	21
51) 4-Methyl-2-Pentanone	9.99	43	2874	0.36	ug/l	95
56) Ethyl methacrylate	10.64	69	738	1.98	ug/l #	1
59) 2-Hexanone	10.77	43	18005	3.49	ug/l #	59
70) Styrene	11.96	104	332	0.96	ug/l #	45
75) 1,1,2,2-Tetrachloroethane	12.42	83	30	Below Cal	#	26
76) 1,2,3-Trichloropropane	12.40	75	171723	37.37	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	171723	135.16	ug/l #	13
95) Naphthalene	15.13	128	563	3.91	ug/l #	69

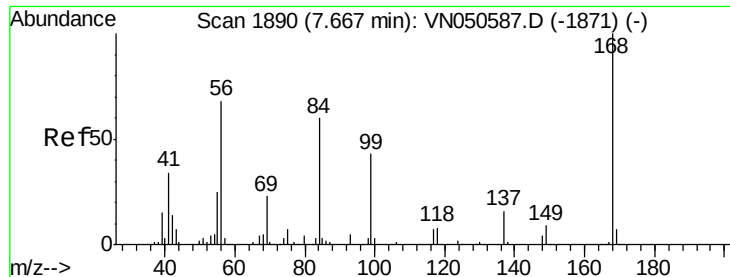
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :

Quant Time: Aug 17 23:14:03 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N081418W.M
Quant Title : SW846 8260
QLast Update : Tue Aug 14 08:07:08 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1891

Delta R.T. 0.00 min

Lab File: VN050729.D

Acq: 17 Aug 2018 14:48

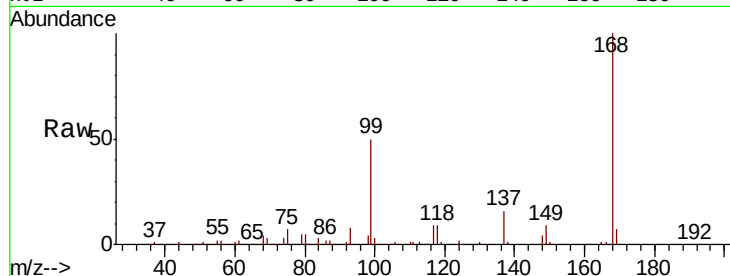
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 621701

Ion Ratio Lower Upper

168 100

99 50.2 40.8 61.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.67

250000

200000

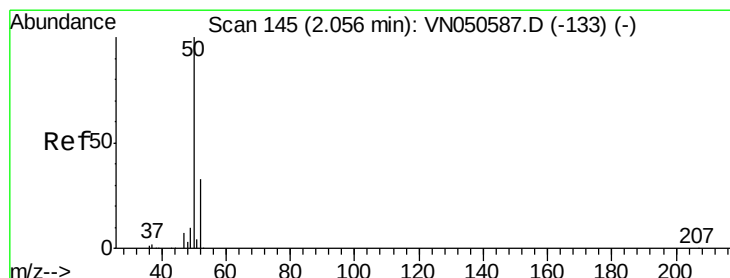
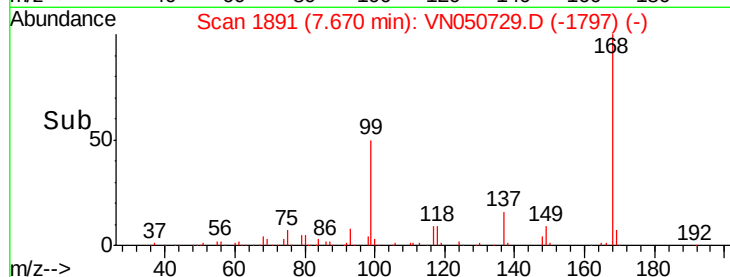
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: Below Cal

RT: 2.06 min Scan# 146

Delta R.T. 0.00 min

Lab File: VN050729.D

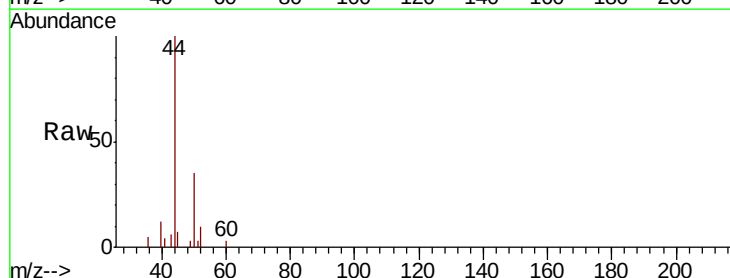
Acq: 17 Aug 2018 14:48

Tgt Ion: 50 Resp: 2381

Ion Ratio Lower Upper

50 100

52 29.6 26.0 39.0



Abundance Ion 49.90 (49.60 to 50.60): VNO

Ion 51.90 (51.60 to 52.60): VNO

2000

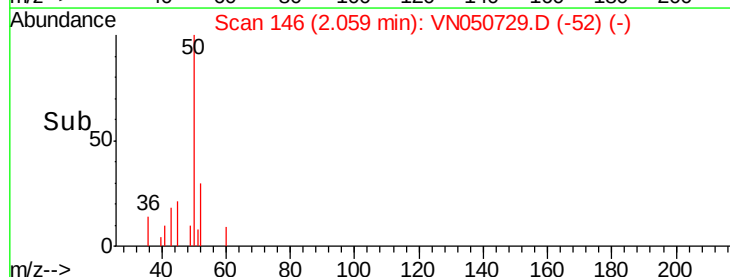
1500

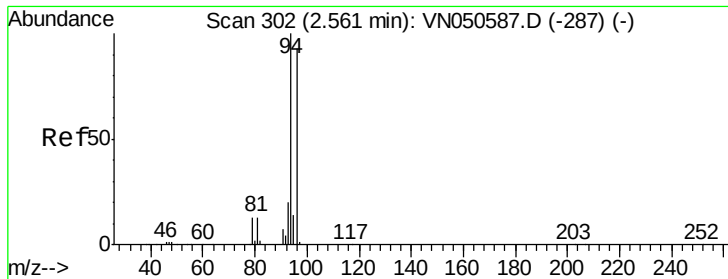
1000

500

0

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 2.56 min Scan# 303

Delta R.T. 0.00 min

Lab File: VN050729.D

Acq: 17 Aug 2018 14:48

Instrument :

MSVOA_N

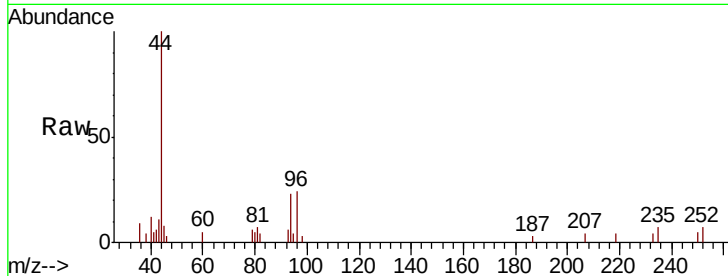
ClientSampled :

Tot Ion: 94 Resp: 2872

Ion Ratio Lower Upper

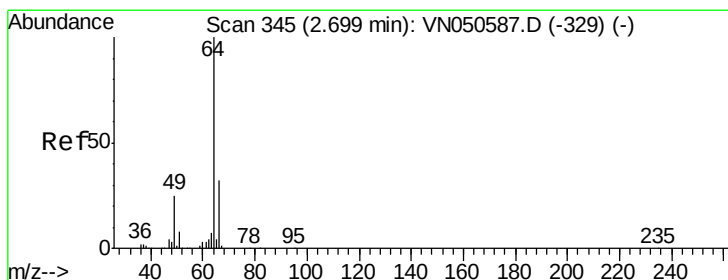
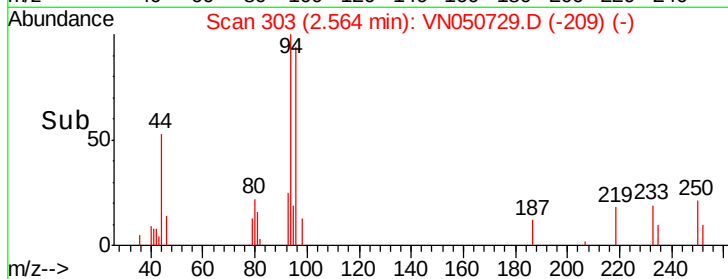
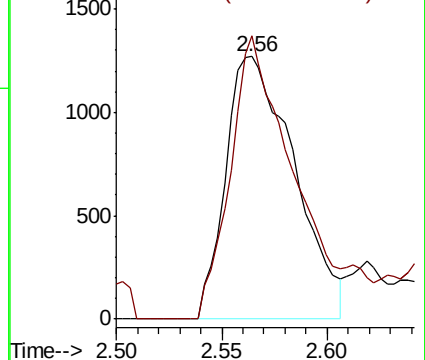
94 100

96 107.7 74.0 111.0



Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0



#6

Chloroethane

Concen: Below Cal

RT: 2.70 min Scan# 346

Delta R.T. 0.00 min

Lab File: VN050729.D

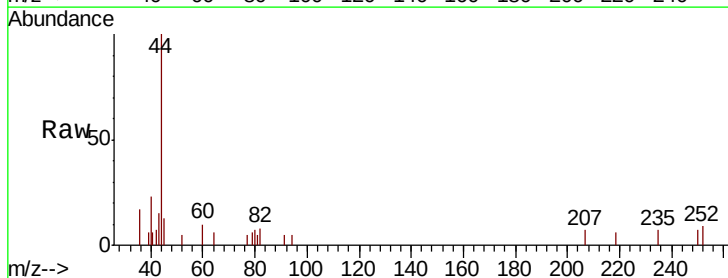
Acq: 17 Aug 2018 14:48

Tgt Ion: 64 Resp: 98

Ion Ratio Lower Upper

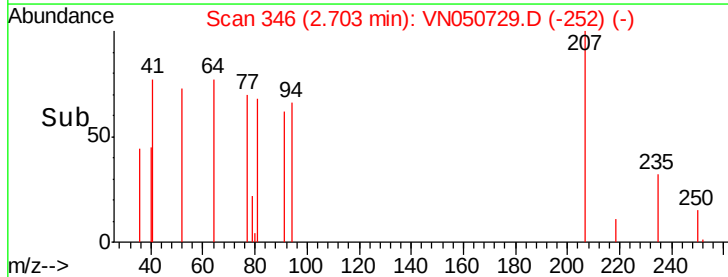
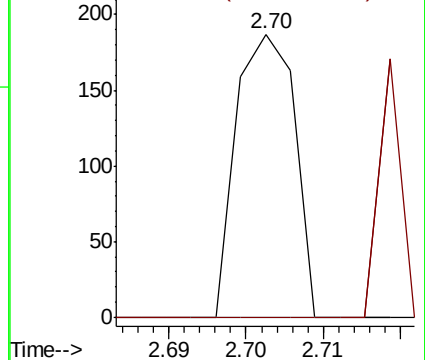
64 100

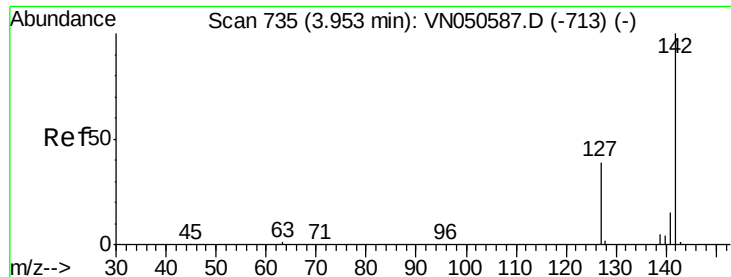
66 0.0 25.7 38.5#



Abundance Ion 63.90 (63.60 to 64.60): VN0

Ion 65.90 (65.60 to 66.60): VN0

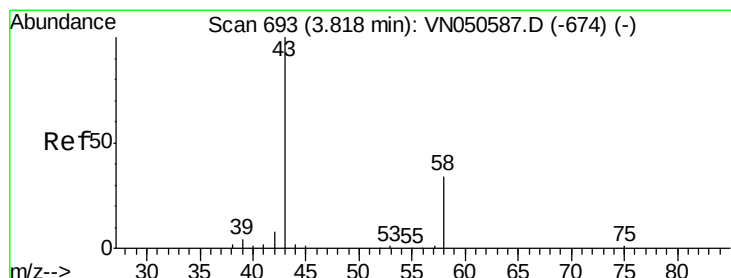
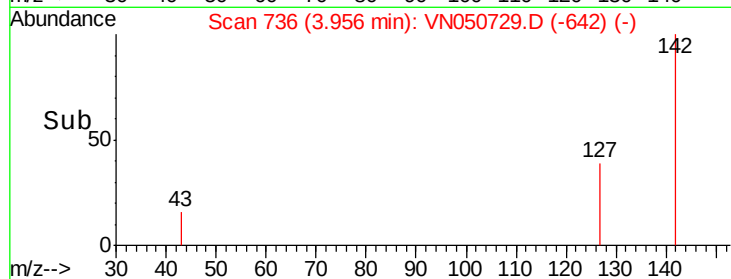
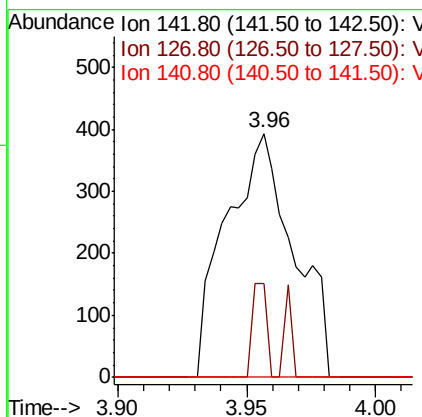
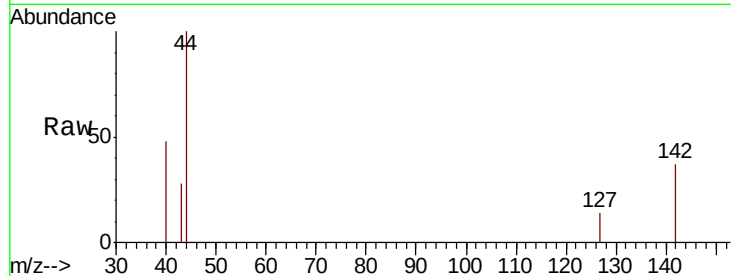




#10
Methvl Iodide
Concen: 7.07 ug/l
RT: 3.96 min Scan# 736
Delta R.T. 0.00 min
Lab File: VN050729.D
Acq: 17 Aug 2018 14:48

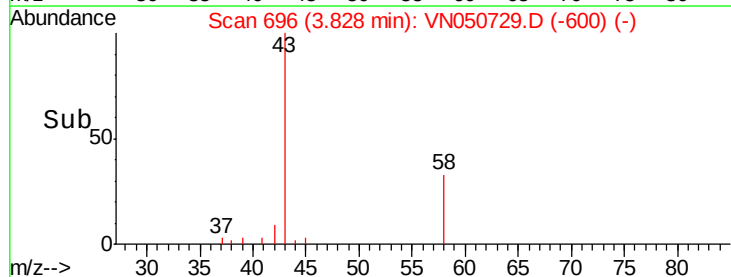
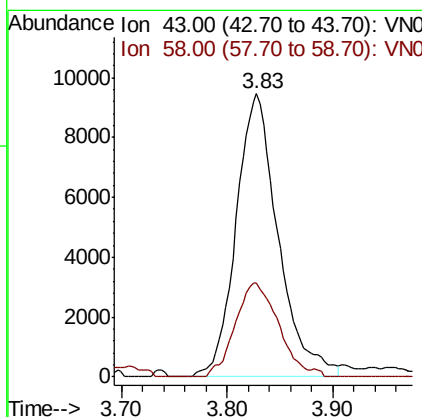
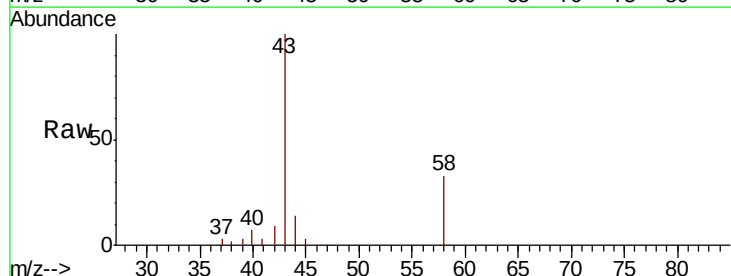
Instrument :
MSVOA_N
ClientSampled :

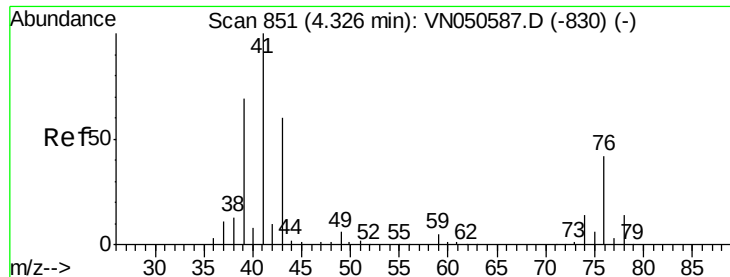
Tot Ion:142 Resp: 715
Ion Ratio Lower Upper
142 100
127 8.1 32.6 49.0#
141 0.0 11.5 17.3#



#16
Acetone
Concen: 12.02 ug/l
RT: 3.83 min Scan# 696
Delta R.T. 0.01 min
Lab File: VN050729.D
Acq: 17 Aug 2018 14:48

Tgt Ion: 43 Resp: 26228
Ion Ratio Lower Upper
43 100
58 33.0 27.1 40.7

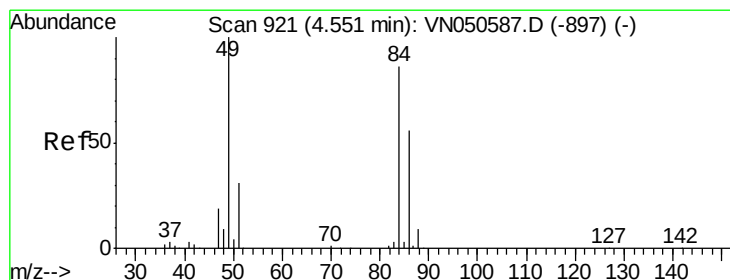
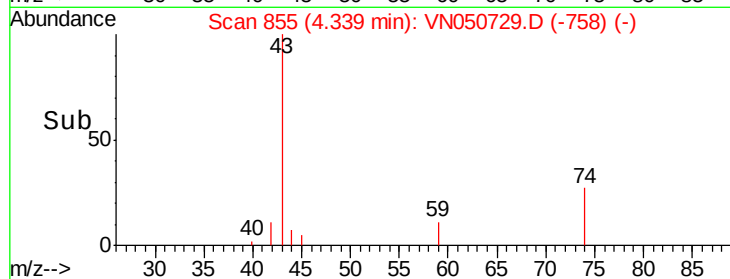
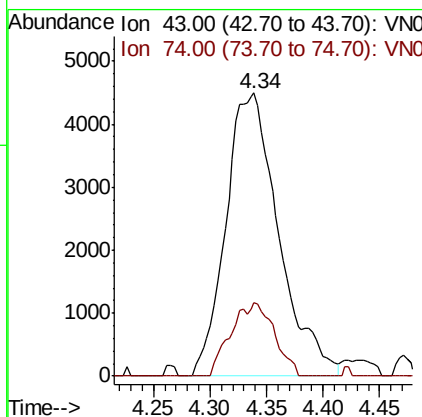
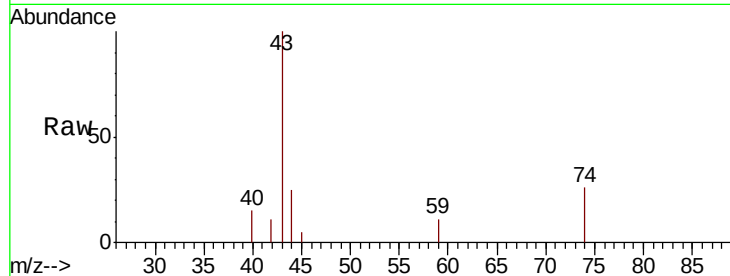




#18
Methyl Acetate
Concen: 1.69 ug/l
RT: 4.34 min Scan# 855
Delta R.T. 0.01 min
Lab File: VN050729.D
Acq: 17 Aug 2018 14:48

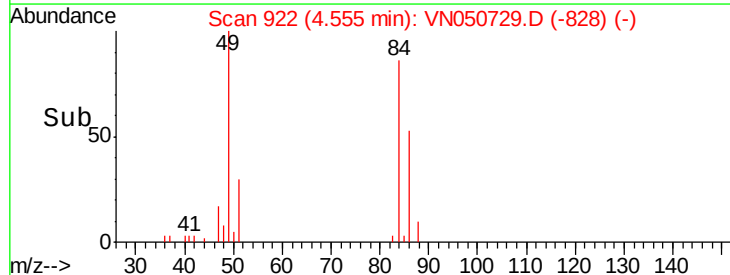
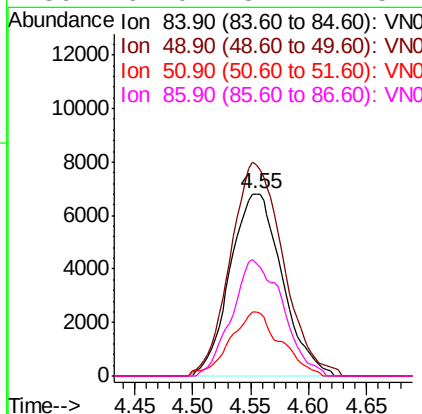
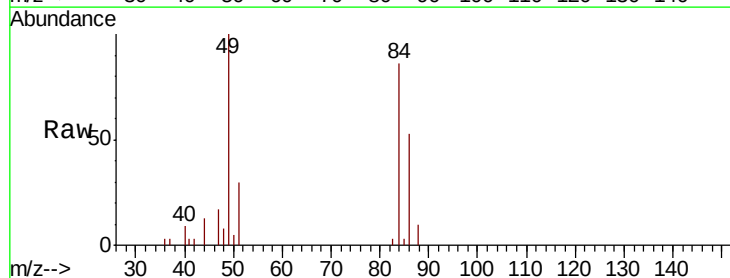
Instrument :
MSVOA_N
ClientSampled :

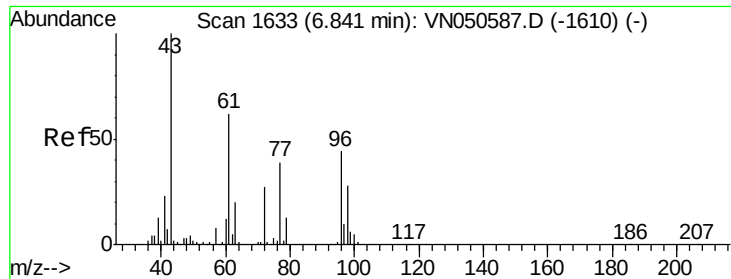
Tot Ion: 43 Resp: 14610
Ion Ratio Lower Upper
43 100
74 21.2 19.7 29.5



#20
Methylene Chloride
Concen: 1.63 ug/l
RT: 4.55 min Scan# 922
Delta R.T. 0.00 min
Lab File: VN050729.D
Acq: 17 Aug 2018 14:48

Tgt Ion: 84 Resp: 21290
Ion Ratio Lower Upper
84 100
49 116.0 92.6 138.8
51 35.2 28.6 43.0
86 62.0 52.2 78.2

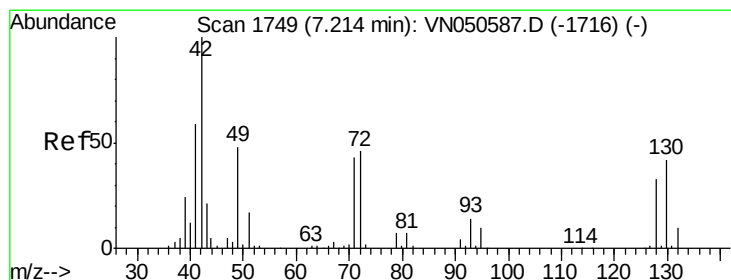
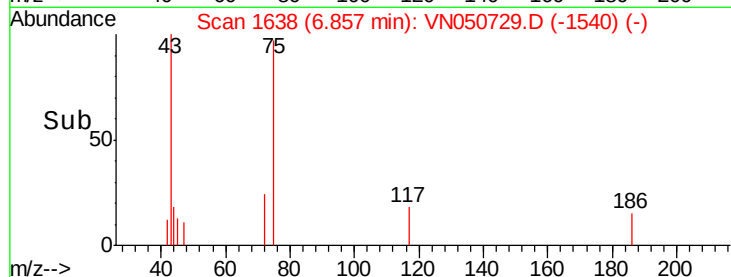
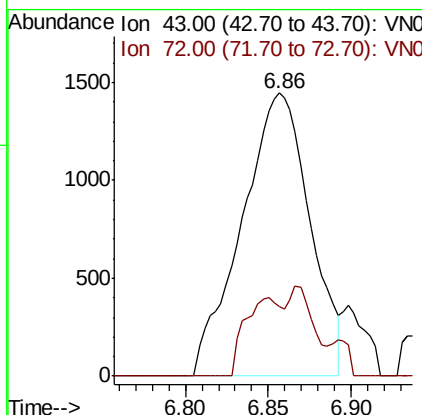
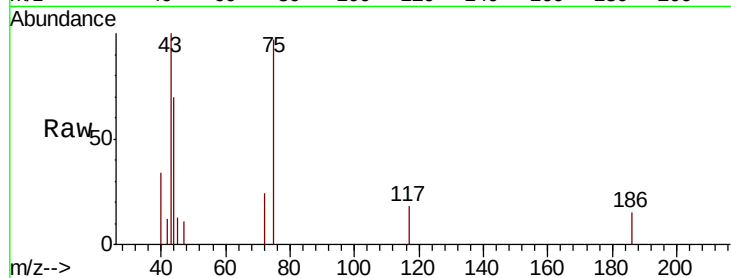




#25
2-Butanone
Concen: 1.29 ug/l
RT: 6.86 min Scan# 1638
Delta R.T. 0.02 min
Lab File: VN050729.D
Acq: 17 Aug 2018 14:48

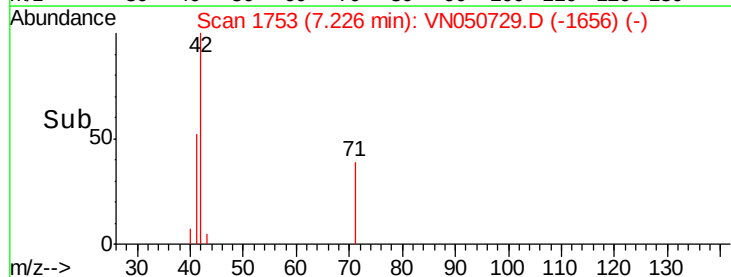
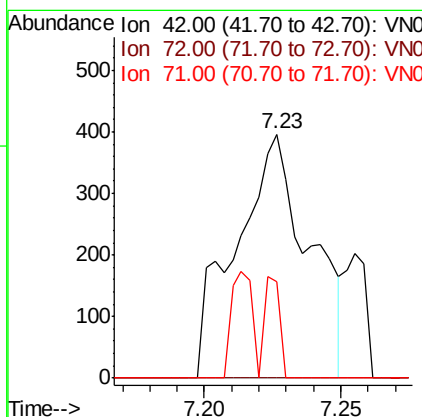
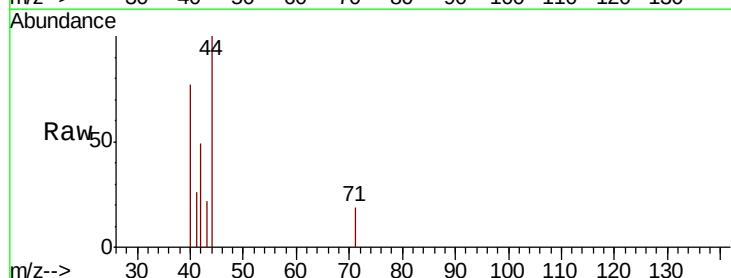
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MSVOA_N
ClientSampleId :

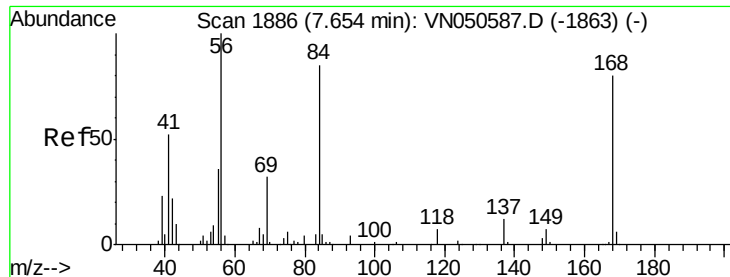
Tot Ion: 43 Resp: 4131
Ion Ratio Lower Upper
43 100
72 24.5 21.8 32.6



#29
Tetrahydrofuran
Concen: 0.44 ug/l
RT: 7.23 min Scan# 1753
Delta R.T. 0.01 min
Lab File: VN050729.D
Acq: 17 Aug 2018 14:48

Tgt Ion: 42 Resp: 738
Ion Ratio Lower Upper
42 100
72 0.0 35.8 53.6#
71 8.4 33.4 50.0#

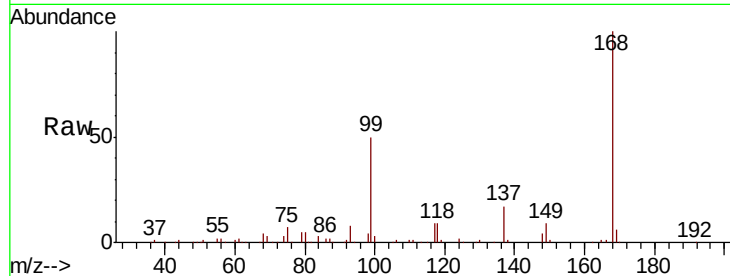




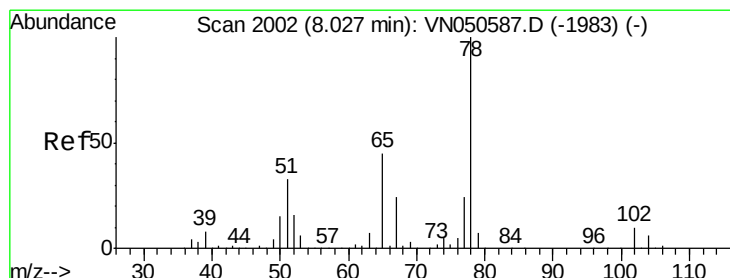
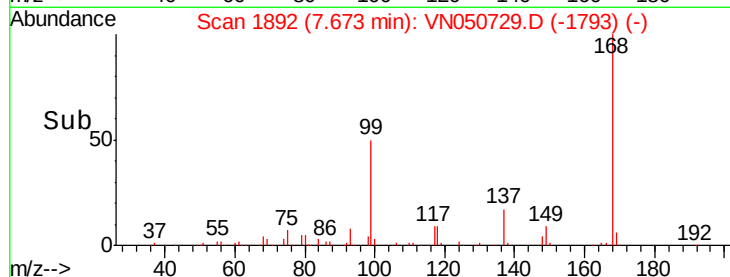
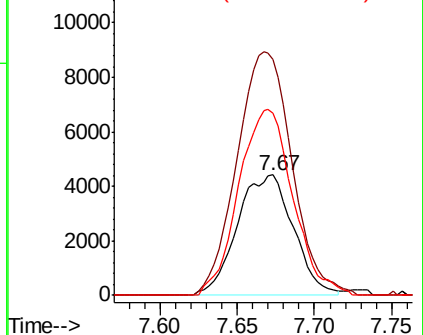
#31
Cyclohexane
Concen: 0.60 ug/l
RT: 7.67 min Scan# 1892
Delta R.T. 0.02 min
Lab File: VN050729.D
Acq: 17 Aug 2018 14:48

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 56 Resp: 11160
Ion Ratio Lower Upper
56 100
69 195.5 25.8 38.6#
84 151.1 67.8 101.6#

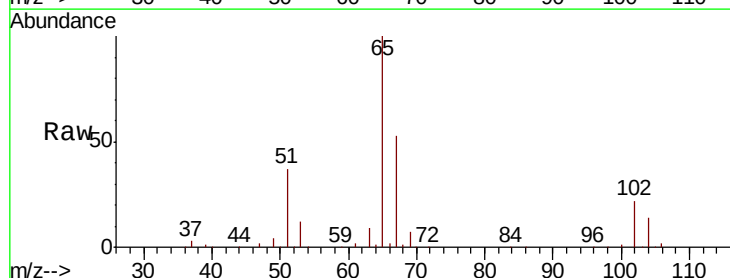


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

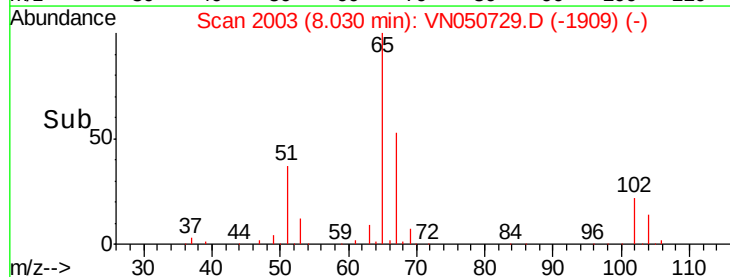
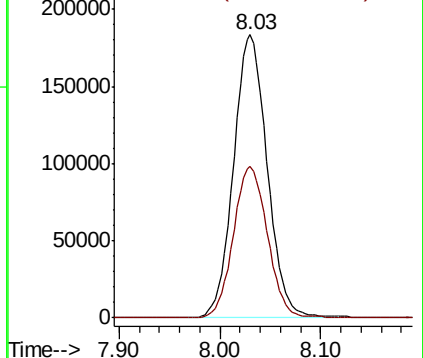


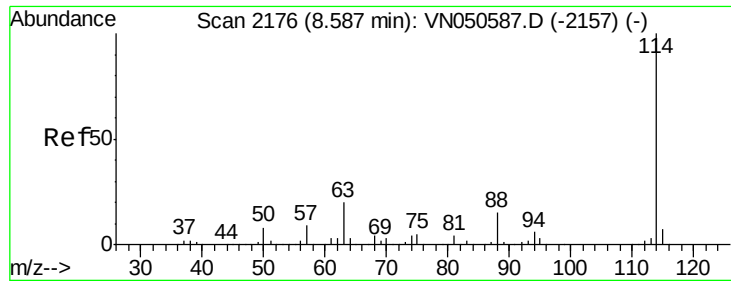
#33
1,2-Dichloroethane-d4
Concen: 54.17 ug/l
RT: 8.03 min Scan# 2003
Delta R.T. 0.00 min
Lab File: VN050729.D
Acq: 17 Aug 2018 14:48

Tgt Ion: 65 Resp: 424473
Ion Ratio Lower Upper
65 100
67 54.3 0.0 109.8



Abundance Ion 64.90 (64.60 to 65.60): VN0
Ion 66.90 (66.60 to 67.60): VN0

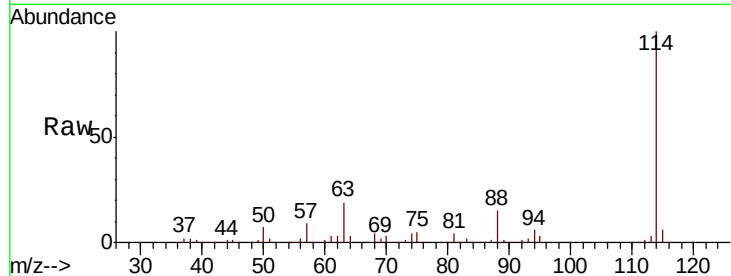




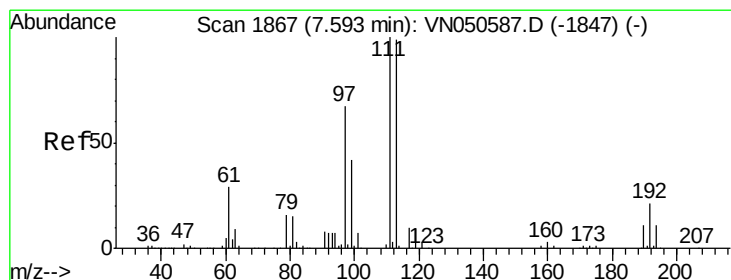
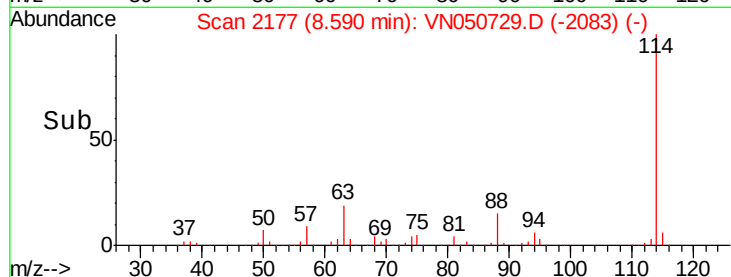
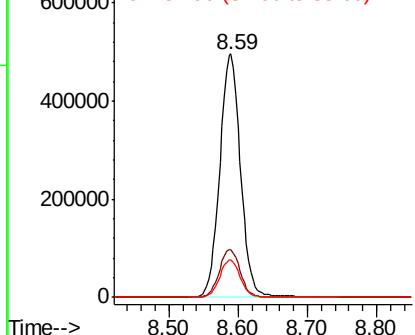
#34
1,4-Difluorobenzene
Concen: 50.00 ug/l
RT: 8.59 min Scan# 2177
Delta R.T. 0.00 min
Lab File: VN050729.D
Acq: 17 Aug 2018 14:48

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:114 Resp: 1031652
Ion Ratio Lower Upper
114 100
63 19.5 0.0 40.0
88 15.4 0.0 30.8

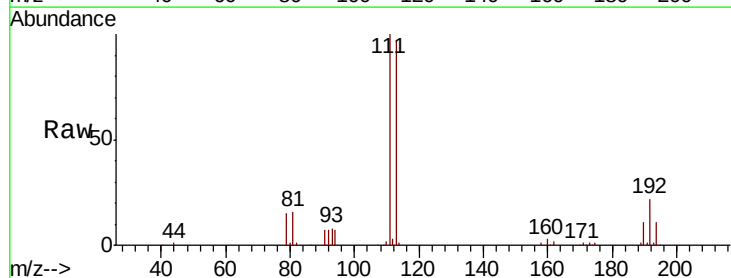


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VN
Ion 87.90 (87.60 to 88.60): VN

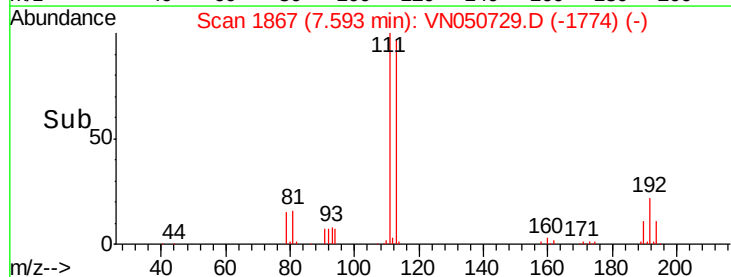
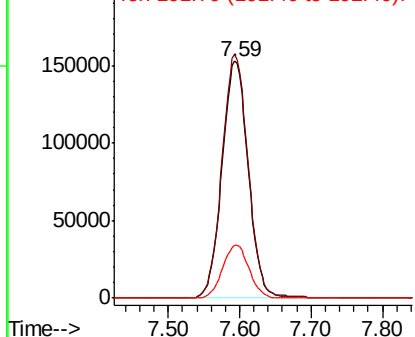


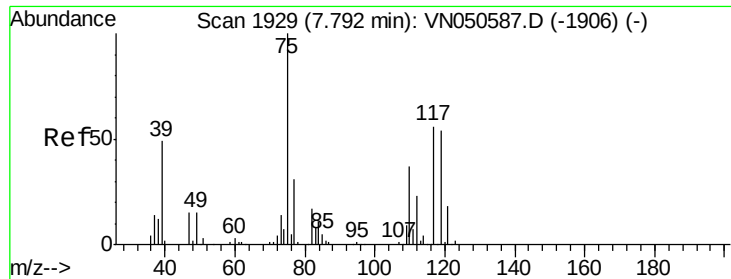
#35
Dibromofluoromethane
Concen: 47.41 ug/l
RT: 7.59 min Scan# 1867
Delta R.T. -0.00 min
Lab File: VN050729.D
Acq: 17 Aug 2018 14:48

Tgt Ion:113 Resp: 390480
Ion Ratio Lower Upper
113 100
111 101.9 81.0 121.6
192 22.6 17.6 26.4



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

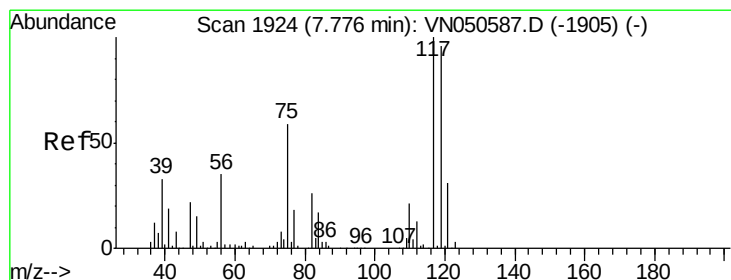
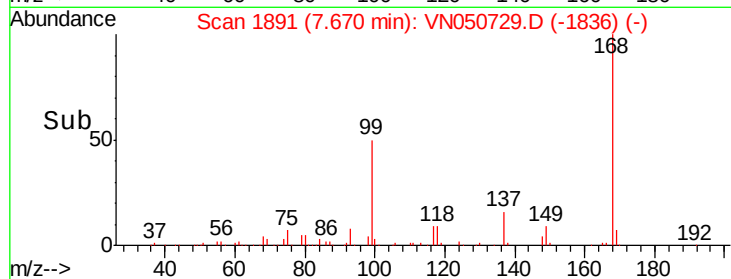
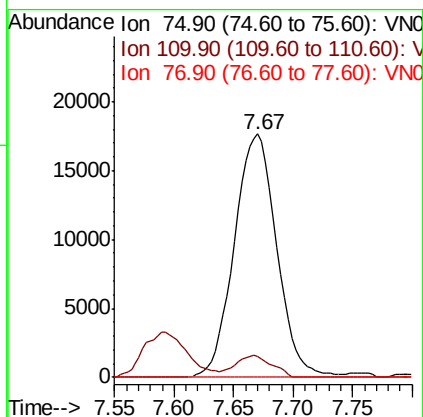
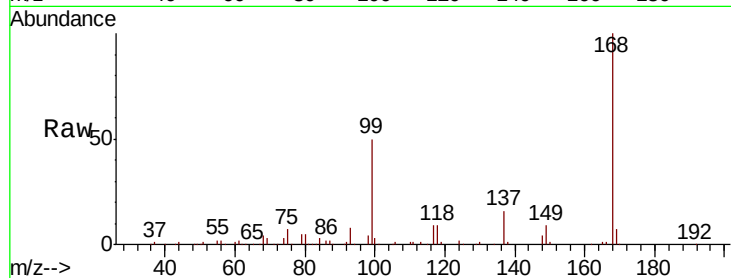




#36
 1,1-Dichloropropene
 Concen: 3.80 ug/l
 RT: 7.67 min Scan# 1891
 Delta R.T. -0.12 min
 Lab File: VN050729.D
 Acq: 17 Aug 2018 14:48

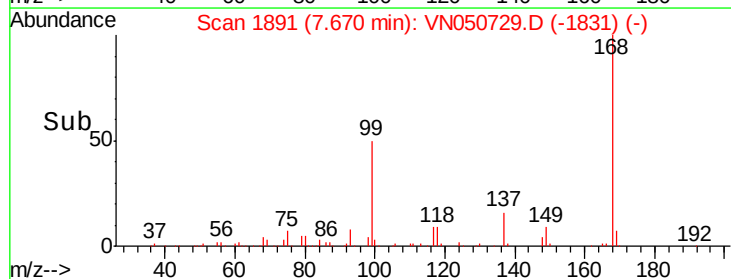
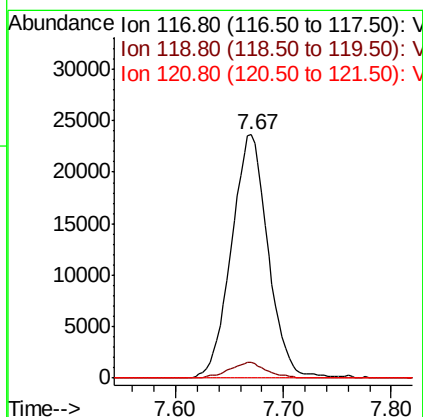
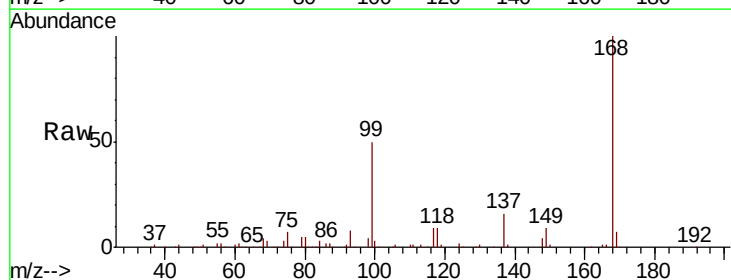
Instrument :
 MSVOA_N
 ClientSampled :

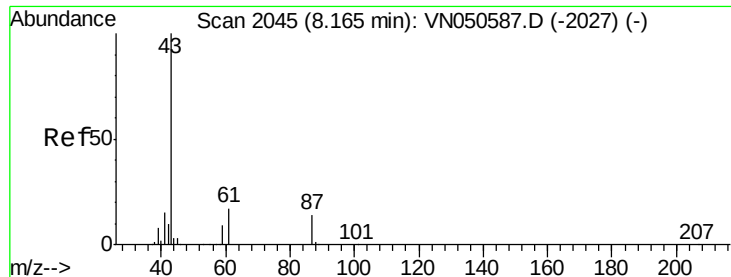
Tot Ion: 75 Resp: 43596
 Ion Ratio Lower Upper
 75 100
 110 7.8 18.3 54.9#
 77 0.0 25.0 37.4#



#38
 Carbon Tetrachloride
 Concen: 4.70 ug/l
 RT: 7.67 min Scan# 1891
 Delta R.T. -0.11 min
 Lab File: VN050729.D
 Acq: 17 Aug 2018 14:48

Tgt Ion: 117 Resp: 55973
 Ion Ratio Lower Upper
 117 100
 119 6.7 76.6 115.0#
 121 0.0 25.0 37.6#





#43

Isopropyl Acetate

Concen: 23.71 ug/l

RT: 8.17 min Scan# 2046

Delta R.T. 0.00 min

Lab File: VN050729.D

Acq: 17 Aug 2018 14:48

Instrument :

MSVOA_N

ClientSampled :

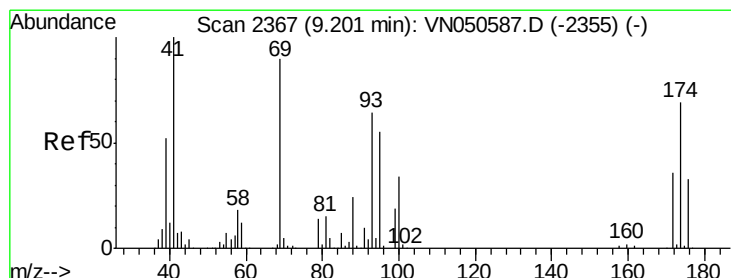
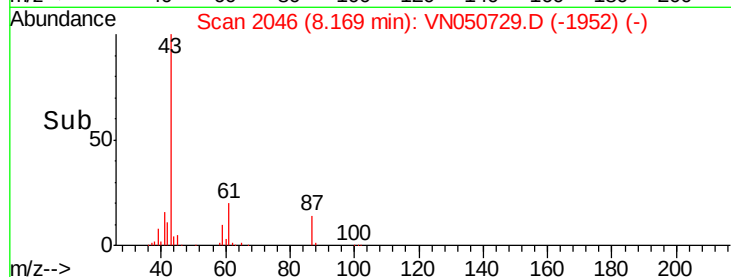
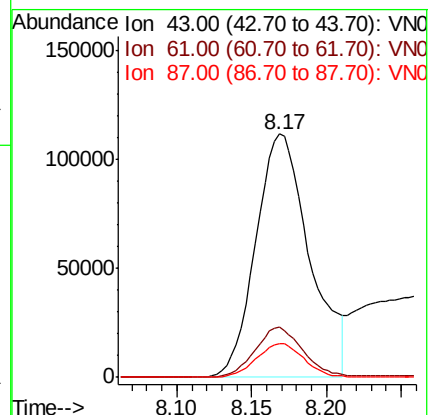
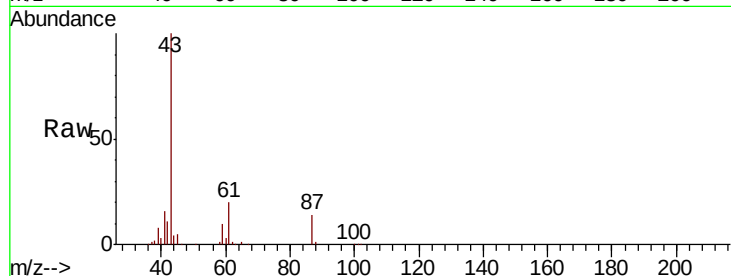
Tot Ion: 43 Resp: 280464

Ion Ratio Lower Upper

43 100

61 18.3 16.2 24.2

87 12.1 10.9 16.3



#48

Methyl methacrylate

Concen: 1.31 ug/l

RT: 9.18 min Scan# 2361

Delta R.T. -0.02 min

Lab File: VN050729.D

Acq: 17 Aug 2018 14:48

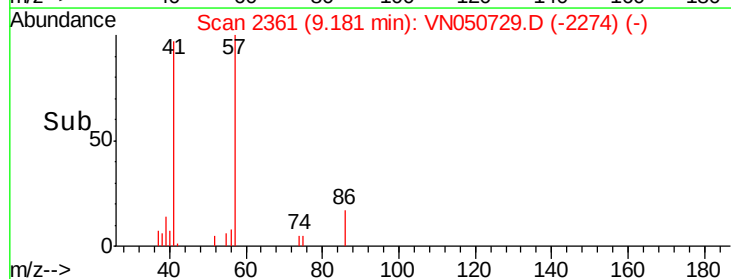
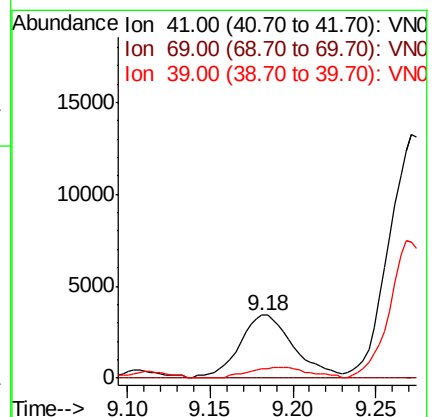
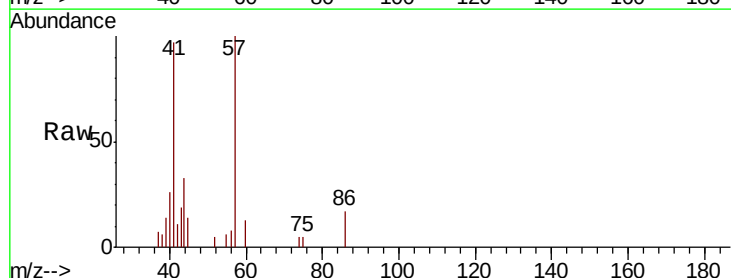
Tgt Ion: 41 Resp: 7788

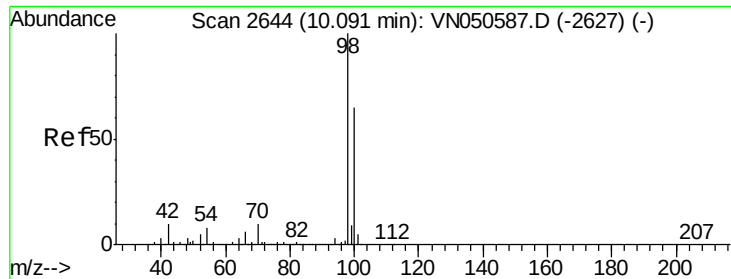
Ion Ratio Lower Upper

41 100

69 0.0 73.4 110.0#

39 19.0 43.0 64.6#

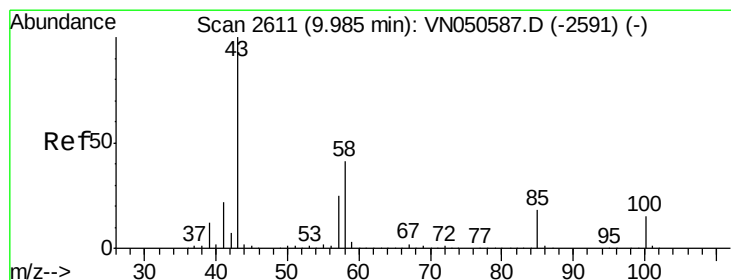
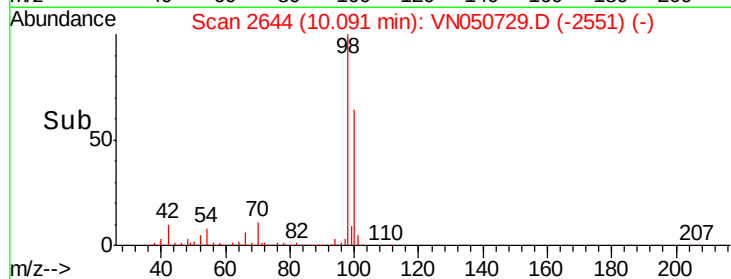
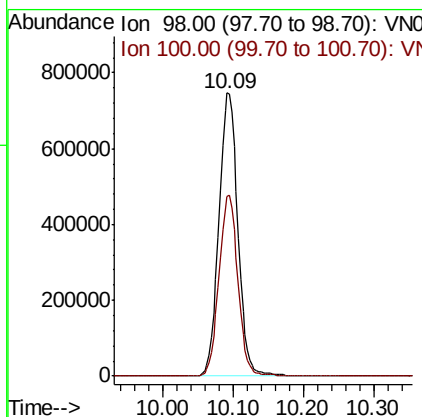
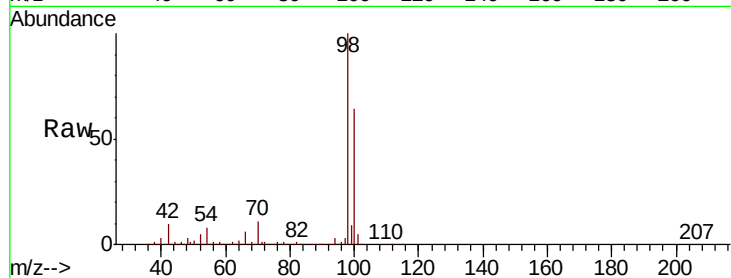




#50
Toluene-d8
Concen: 45.21 ug/l
RT: 10.09 min Scan# 2644
Delta R.T. -0.00 min
Lab File: VN050729.D
Acq: 17 Aug 2018 14:48

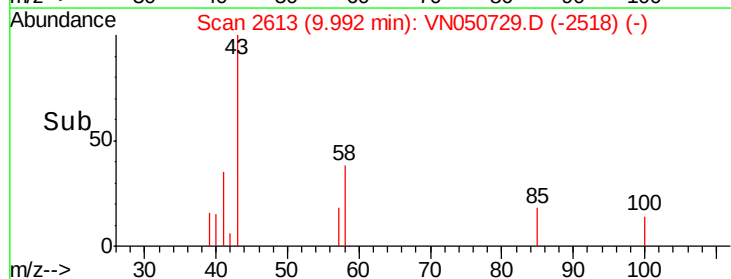
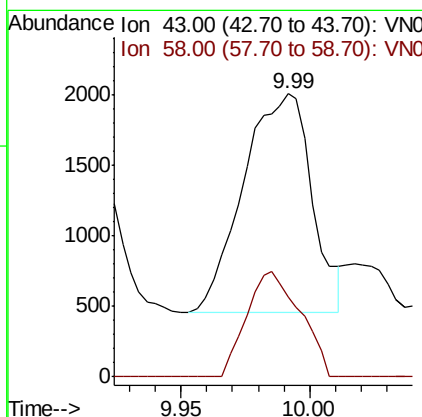
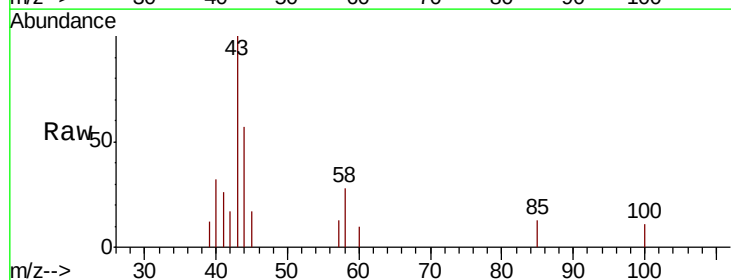
Instrument :
MSVOA_N
ClientSampled :

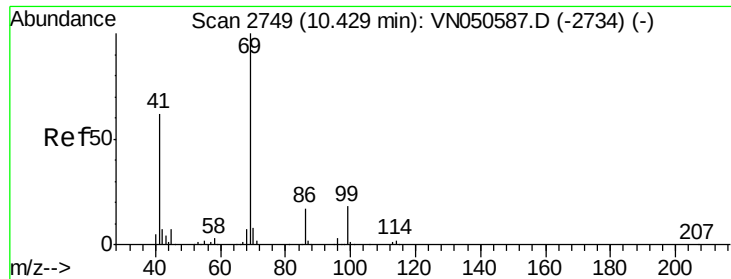
Tot Ion: 98 Resp: 1401446
Ion Ratio Lower Upper
98 100
100 63.8 51.8 77.8



#51
4-Methyl-2-Pentanone
Concen: 0.36 ug/l
RT: 9.99 min Scan# 2613
Delta R.T. 0.01 min
Lab File: VN050729.D
Acq: 17 Aug 2018 14:48

Tgt Ion: 43 Resp: 2874
Ion Ratio Lower Upper
43 100
58 37.8 32.5 48.7





#56

Ethyl methacrylate

Concen: 1.98 ug/l

RT: 10.64 min Scan# 2815

Delta R.T. 0.21 min

Lab File: VN050729.D

Acq: 17 Aug 2018 14:48

Instrument :

MSVOA_N

ClientSampled :

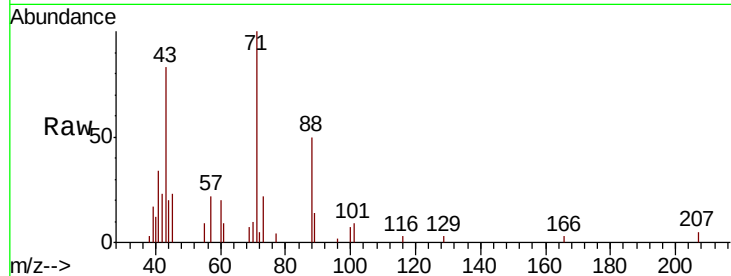
Tot Ion: 69 Resp: 738

Ion Ratio Lower Upper

69 100

41 653.7 49.7 74.5#

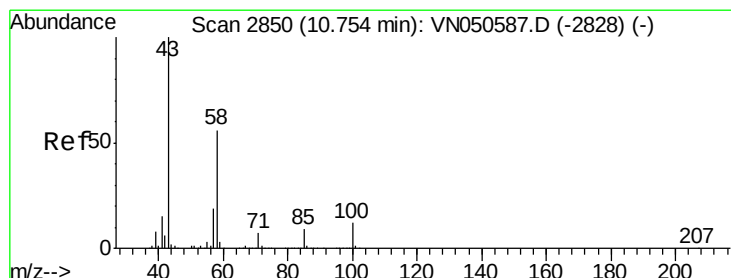
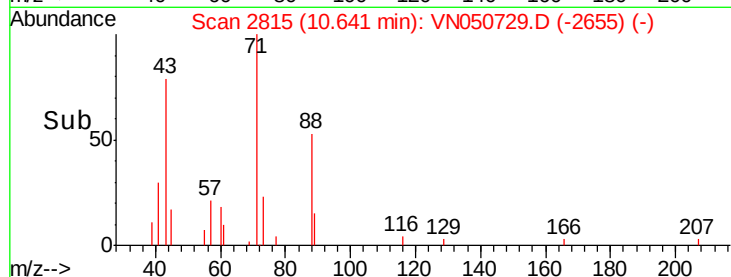
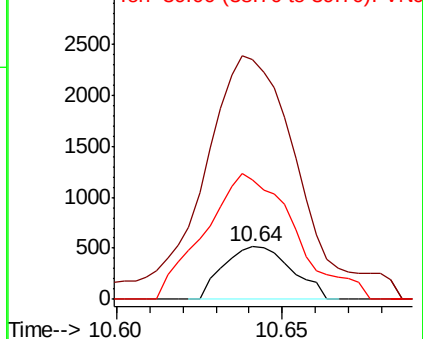
39 315.3 24.2 36.2#



Abundance Ion 69.00 (68.70 to 69.70): VN0

Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0



#59

2-Hexanone

Concen: 3.49 ug/l

RT: 10.77 min Scan# 2854

Delta R.T. 0.01 min

Lab File: VN050729.D

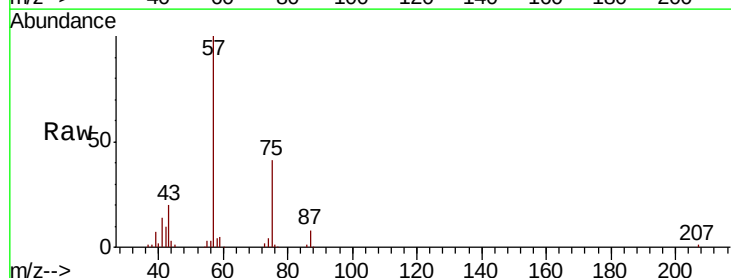
Acq: 17 Aug 2018 14:48

Tgt Ion: 43 Resp: 18005

Ion Ratio Lower Upper

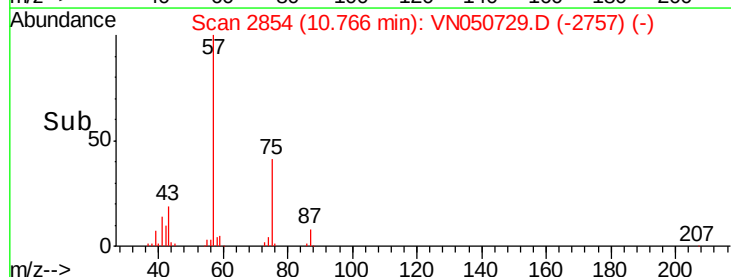
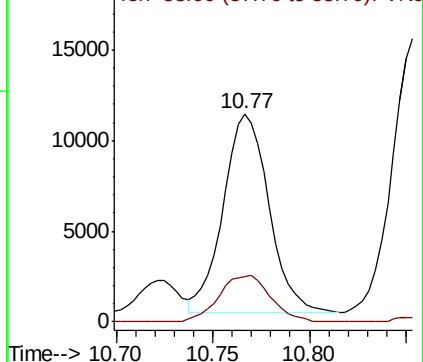
43 100

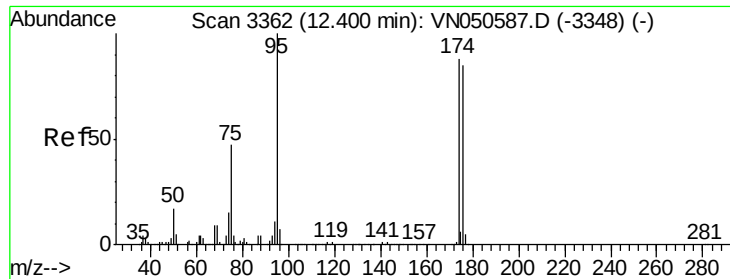
58 26.2 28.0 84.0#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#62

4-Bromofluorobenzene

Concen: 35.69 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.00 min

Lab File: VN050729.D

Acq: 17 Aug 2018 14:48

Instrument :

MSVOA_N

ClientSampled :

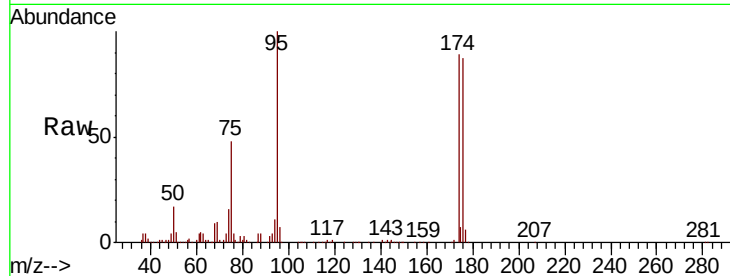
Tot Ion: 95 Resp: 365477

Ion Ratio Lower Upper

95 100

174 90.3 0.0 177.8

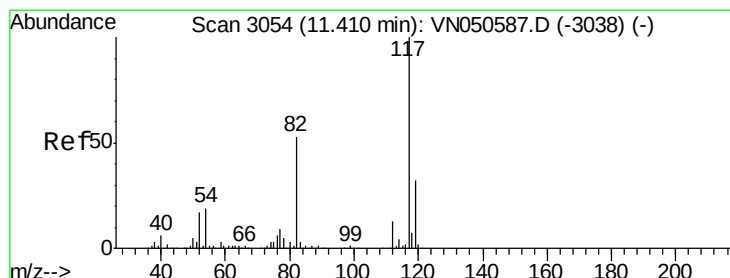
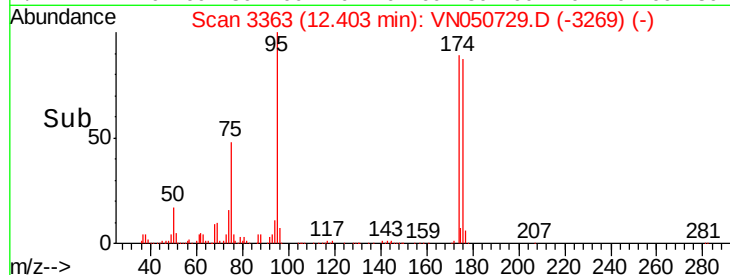
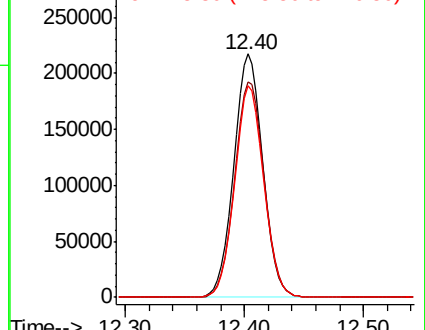
176 87.1 0.0 175.0



Abundance Ion 94.90 (94.60 to 95.60): VN050587.D (-3348) (-)

Ion 173.80 (173.50 to 174.50): VN050587.D (-3348) (-)

Ion 175.80 (175.50 to 176.50): VN050587.D (-3348) (-)



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 11.41 min Scan# 3054

Delta R.T. -0.00 min

Lab File: VN050729.D

Acq: 17 Aug 2018 14:48

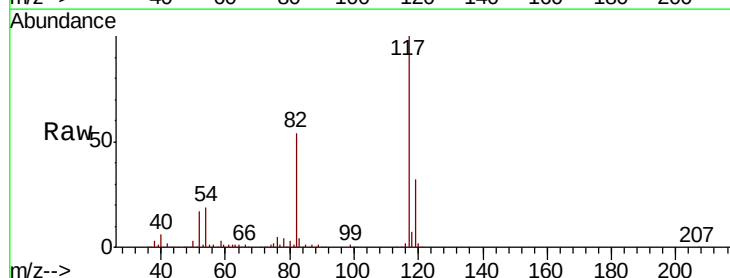
Tgt Ion: 117 Resp: 859515

Ion Ratio Lower Upper

117 100

82 53.5 42.4 63.6

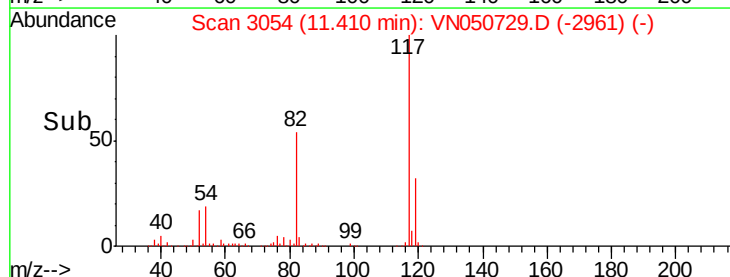
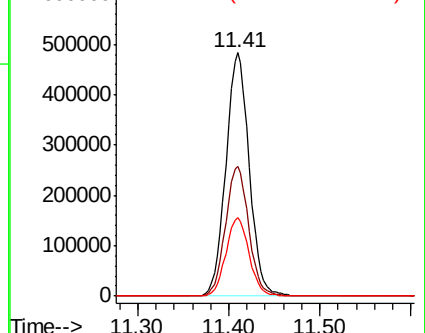
119 32.5 25.8 38.8

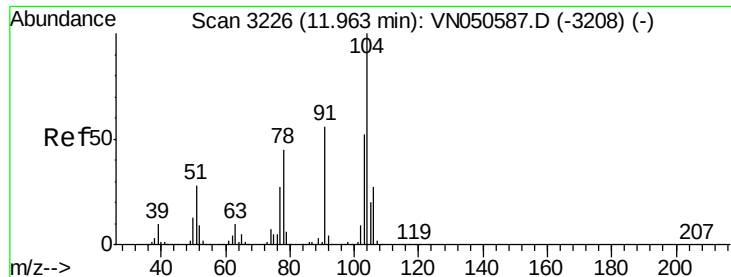


Abundance Ion 116.90 (116.60 to 117.60): VN050587.D (-3038) (-)

Ion 82.00 (81.70 to 82.70): VN050587.D (-3038) (-)

Ion 118.90 (118.60 to 119.60): VN050587.D (-3038) (-)





#70

Stvrene

Concen: 0.96 ug/l

RT: 11.96 min Scan# 3225

Delta R.T. -0.00 min

Lab File: VN050729.D

Acq: 17 Aug 2018 14:48

Instrument :

MSVOA_N

ClientSampleId :

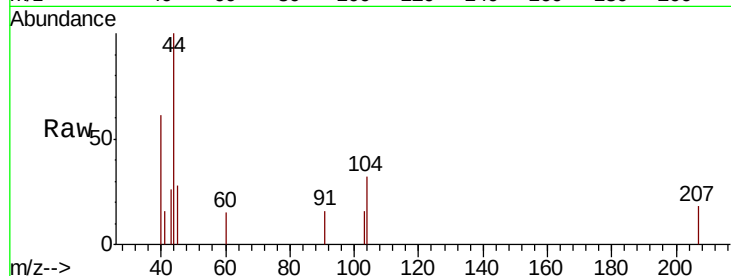
Tot Ion:104 Resp: 332

Ion Ratio Lower Upper

104 100

78 17.8 39.1 58.7#

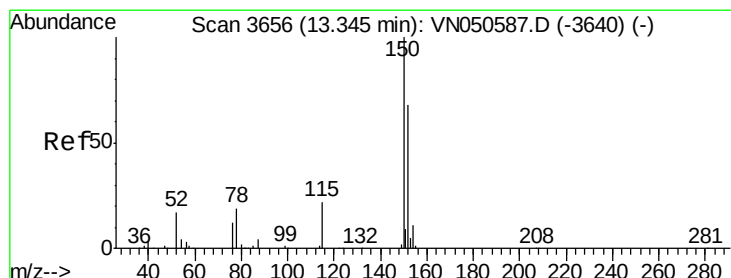
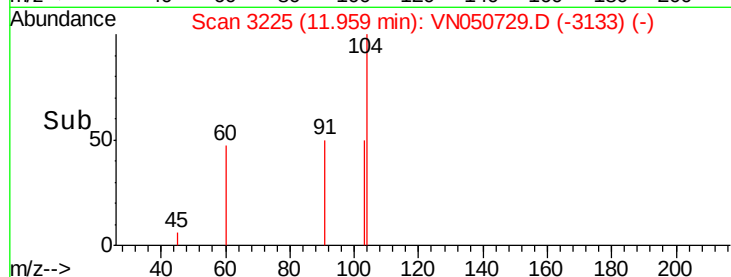
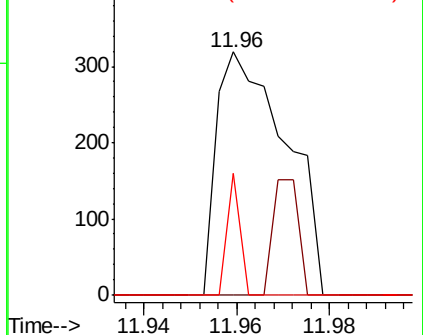
103 9.3 44.9 67.3#



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): V

Ion 103.00 (102.70 to 103.70): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.35 min Scan# 3656

Delta R.T. -0.00 min

Lab File: VN050729.D

Acq: 17 Aug 2018 14:48

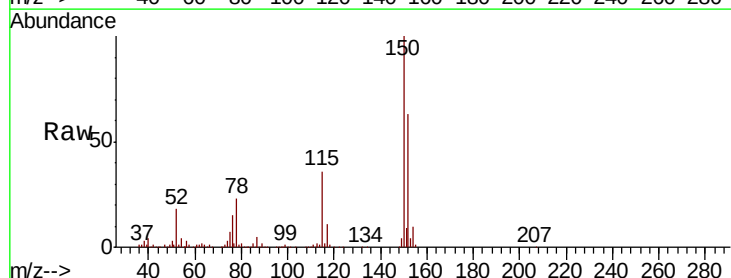
Tgt Ion:152 Resp: 282460

Ion Ratio Lower Upper

152 100

115 56.1 28.1 84.2

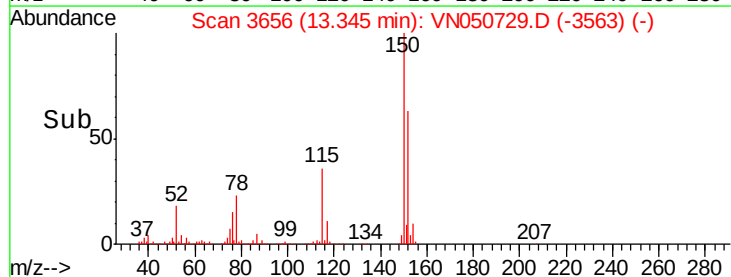
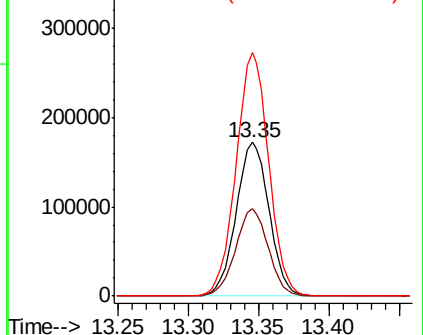
150 156.2 0.0 347.8

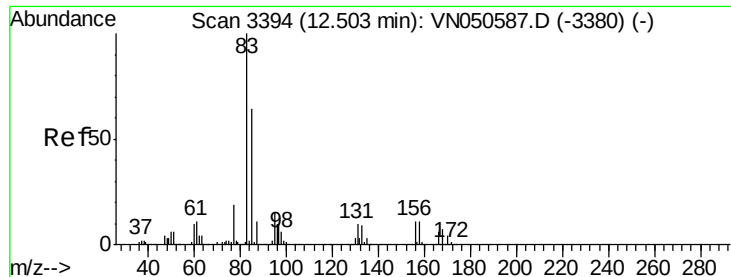


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.42 min Scan# 3369

Delta R.T. -0.08 min

Lab File: VN050729.D

Acq: 17 Aug 2018 14:48

Instrument :

MSVOA_N

ClientSampleId :

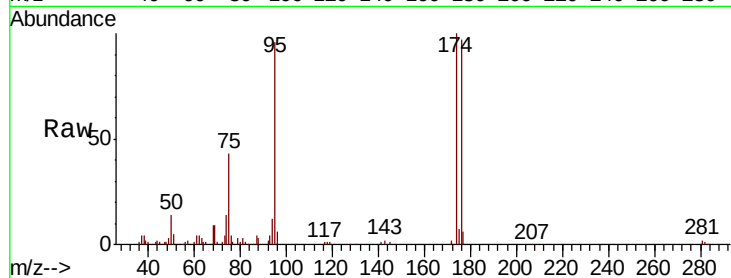
Tot Ion: 83 Resp: 30

Ion Ratio Lower Upper

83 100

131 0.0 5.3 15.9#

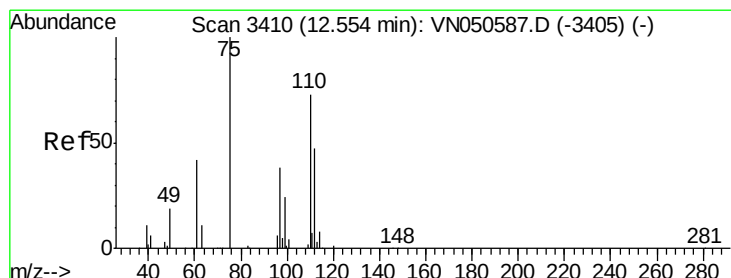
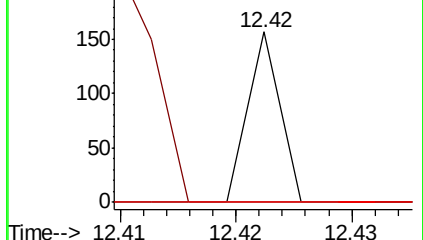
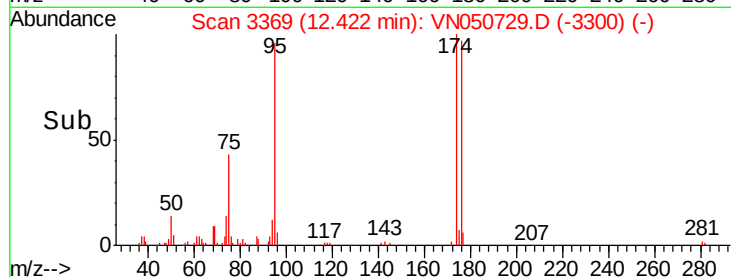
85 0.0 32.1 96.5#



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: 37.37 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.15 min

Lab File: VN050729.D

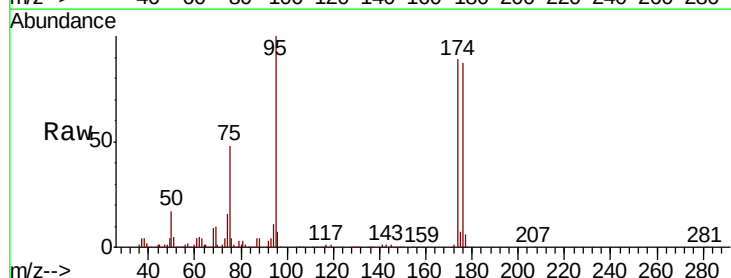
Acq: 17 Aug 2018 14:48

Tgt Ion: 75 Resp: 171723

Ion Ratio Lower Upper

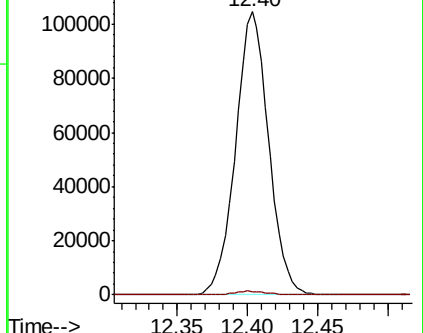
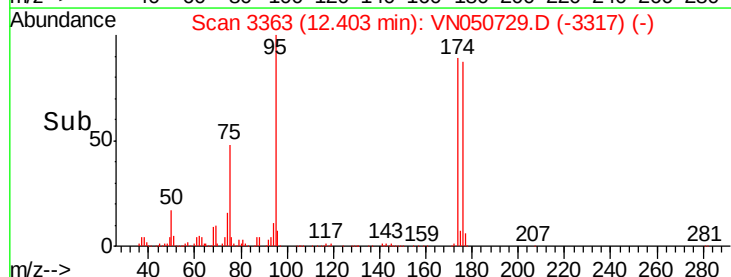
75 100

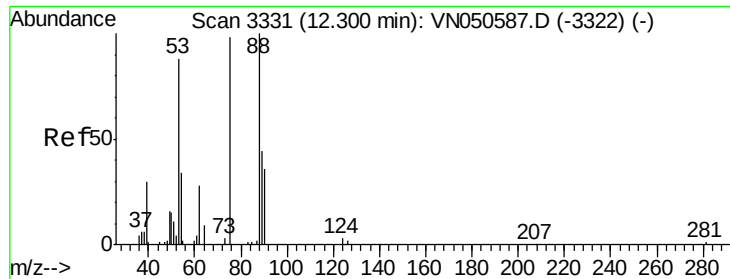
77 1.3 0.0 0.0#



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: 135.16 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.10 min

Lab File: VN050729.D

Acq: 17 Aug 2018 14:48

Instrument :

MSVOA_N

ClientSampled :

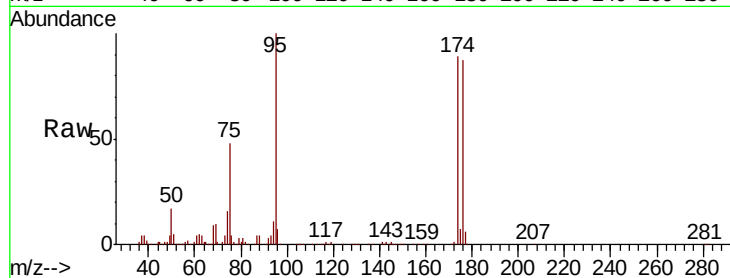
Tot Ion: 75 Resp: 171723

Ion Ratio Lower Upper

75 100

53 0.1 72.2 108.2#

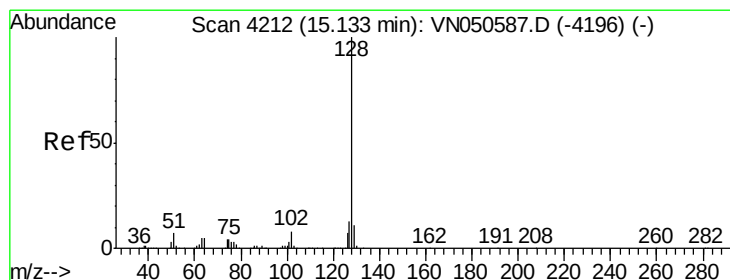
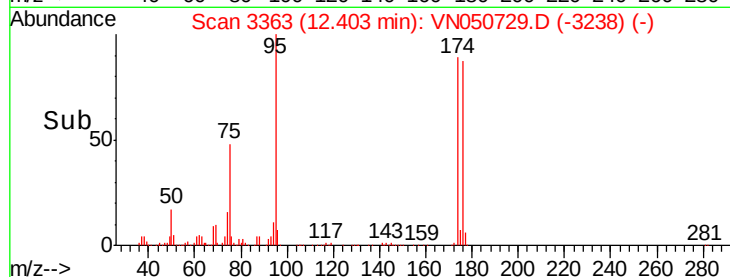
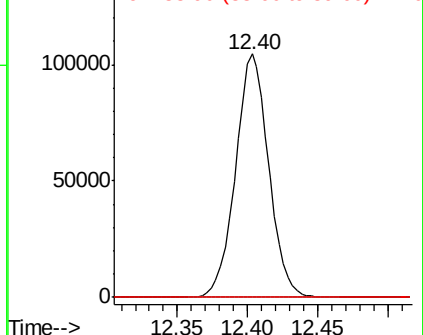
89 0.0 36.3 54.5#



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



#95

Naphthalene

Concen: 3.91 ug/l

RT: 15.13 min Scan# 4211

Delta R.T. -0.00 min

Lab File: VN050729.D

Acq: 17 Aug 2018 14:48

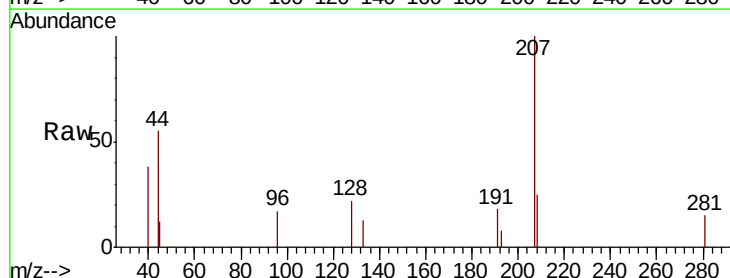
Tgt Ion: 128 Resp: 563

Ion Ratio Lower Upper

128 100

127 0.0 10.3 15.5#

129 0.0 8.5 12.7#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

