

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN082118\
 Data File : VN050802.D
 Acq On : 22 Aug 2018 00:15
 Operator : MD\SY
 Sample : PB112227ZHE#08
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 33 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB112227ZHE#08

Quant Time: Aug 22 06:45:53 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N082118W.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 22 05:38:12 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	597807	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1007507	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	879678	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	295760	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	401497	55.79	ug/l	0.00
Spiked Amount			Recovery	=	111.58%	
35) Dibromofluoromethane	7.59	113	379414	47.34	ug/l	0.00
Spiked Amount			Recovery	=	94.68%	
50) Toluene-d8	10.09	98	1382422	46.13	ug/l	0.00
Spiked Amount			Recovery	=	92.26%	
62) 4-Bromofluorobenzene	12.40	95	380411	38.20	ug/l	0.00
Spiked Amount			Recovery	=	76.40%	

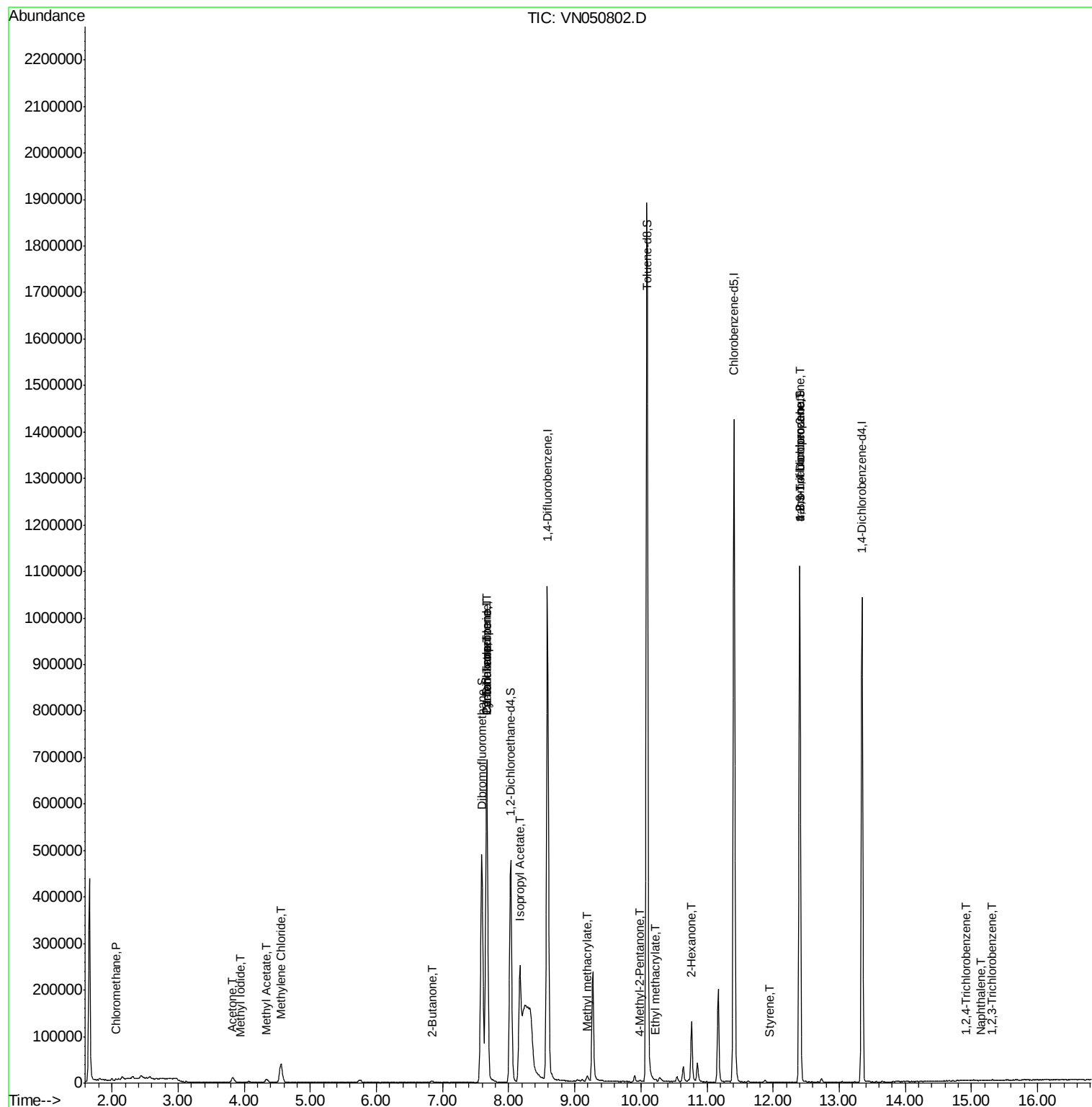
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.06	50	2229	0.226	ug/l #	72
5) Bromomethane	2.57	94	2970	Below Cal	#	72
10) Methyl Iodide	3.95	142	961	6.468	ug/l #	57
16) Acetone	3.82	43	20124	4.882	ug/l	99
18) Methyl Acetate	4.33	43	13522	1.990	ug/l	98
20) Methylene Chloride	4.56	84	31147	3.840	ug/l	96
25) 2-Butanone	6.85	43	2325	0.802	ug/l #	85
31) Cyclohexane	7.67	56	10140	1.287	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	40058	3.369	ug/l #	49
38) Carbon Tetrachloride	7.67	117	54499	4.535	ug/l #	17
43) Isopropyl Acetate	8.17	43	316215	26.929	ug/l #	90
48) Methyl methacrylate	9.18	41	7034	1.175	ug/l #	19
51) 4-Methyl-2-Pentanone	9.99	43	2436	0.348	ug/l	88
56) Ethyl methacrylate	10.23	69	2259	2.560	ug/l #	54
59) 2-Hexanone	10.77	43	16215	3.476	ug/l #	61
70) Styrene	11.96	104	64	1.273	ug/l #	24
75) 1,1,2,2-Tetrachloroethane	12.40	83	101	Below Cal	#	1
76) 1,2,3-Trichloropropane	12.40	75	179014	34.557	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	179014	116.823	ug/l #	15
93) 1,2,4-Trichlorobenzene	14.92	180	136	4.105	ug/l #	12
95) Naphthalene	15.14	128	235	5.418	ug/l #	69
96) 1,2,3-Trichlorobenzene	15.32	180	65	3.307	ug/l #	12

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

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Quant Title : SW846 8260
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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1891

Delta R.T. 0.00 min

Lab File: VN050802.D

Acq: 22 Aug 2018 00:15

Instrument :

MSVOA_N

ClientSampleId :

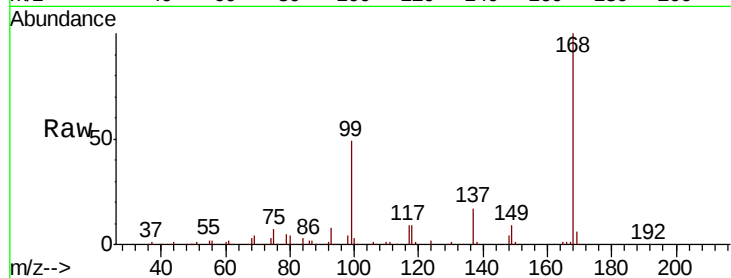
PB112227ZHE#08

Tot Ion:168 Resp: 597807

Ion Ratio Lower Upper

168 100

99 49.5 39.6 59.4



Abundance Ion 167.90 (167.60 to 168.60): VN050802.D (-1797) (-)

Ion 98.90 (98.60 to 99.60): VN050802.D (-1797) (-)

7.67

250000

200000

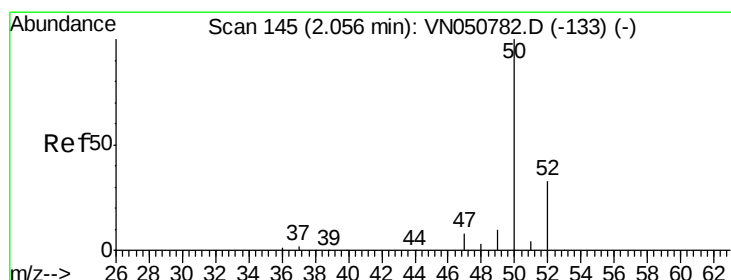
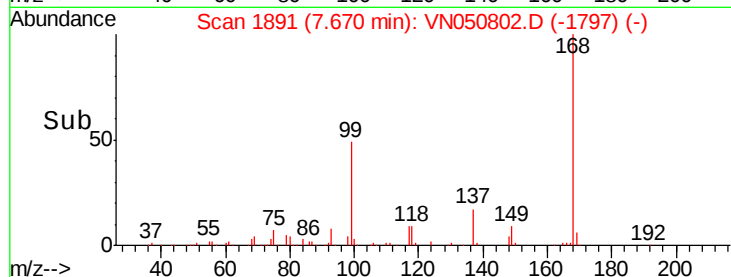
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 0.226 ug/l

RT: 2.06 min Scan# 145

Delta R.T. 0.00 min

Lab File: VN050802.D

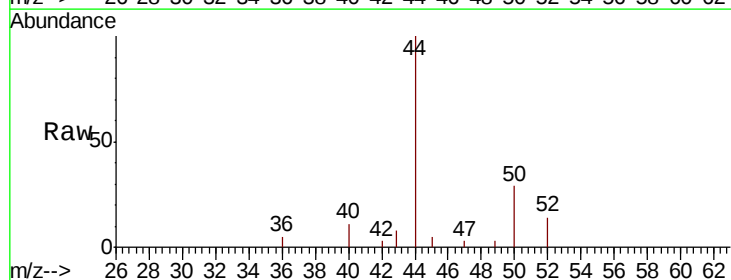
Acq: 22 Aug 2018 00:15

Tgt Ion: 50 Resp: 2229

Ion Ratio Lower Upper

50 100

52 48.8 26.3 39.5#



Abundance Ion 49.90 (49.60 to 50.60): VN050802.D (-52) (-)

Ion 51.90 (51.60 to 52.60): VN050802.D (-52) (-)

2.06

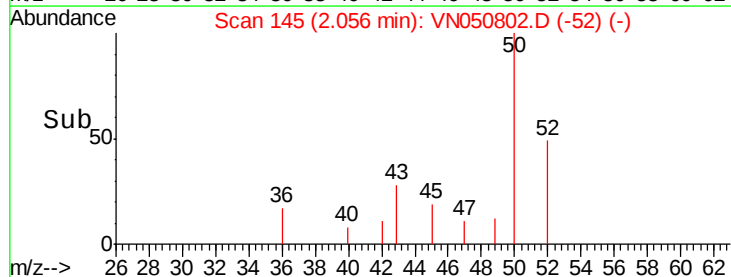
1500

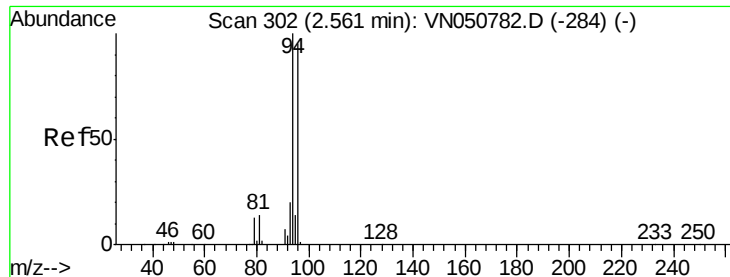
1000

500

0

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 2.57 min Scan# 305

Delta R.T. 0.01 min

Lab File: VN050802.D

Acq: 22 Aug 2018 00:15

Instrument :

MSVOA_N

ClientSampleId :

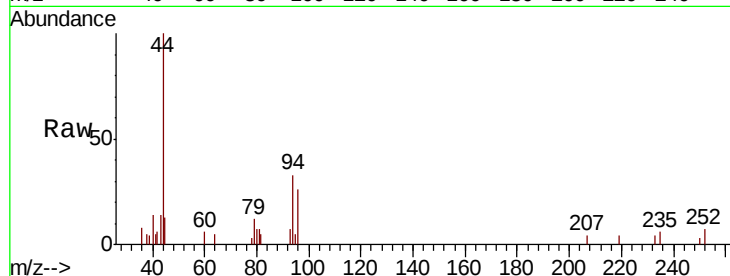
PB112227ZHE#08

Tot Ion: 94 Resp: 2970

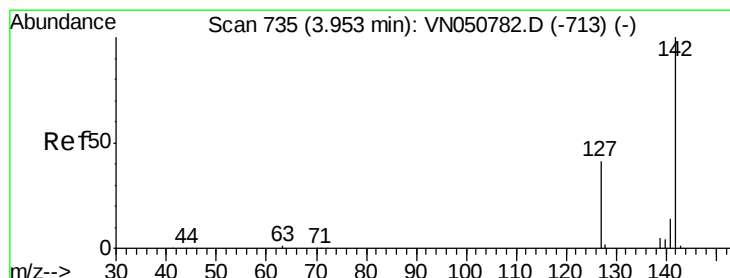
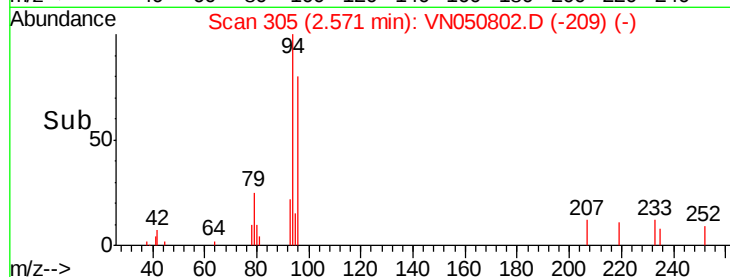
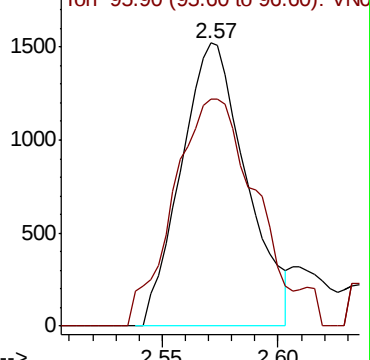
Ion Ratio Lower Upper

94 100

96 68.2 76.2 114.2#



Abundance Ion 93.90 (93.60 to 94.60): VN050802.D (-209) (-)



#10

Methyl Iodide

Concen: 6.468 ug/l

RT: 3.95 min Scan# 734

Delta R.T. -0.00 min

Lab File: VN050802.D

Acq: 22 Aug 2018 00:15

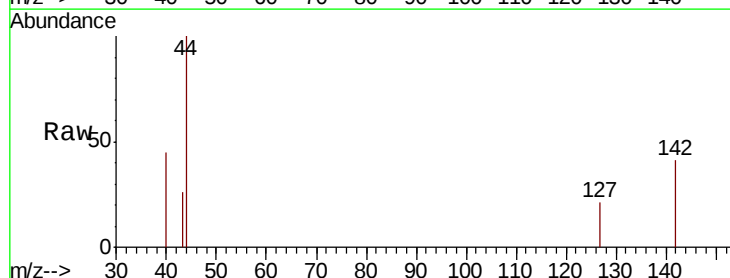
Tgt Ion: 142 Resp: 961

Ion Ratio Lower Upper

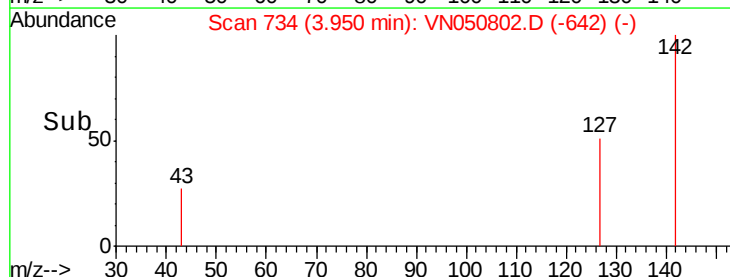
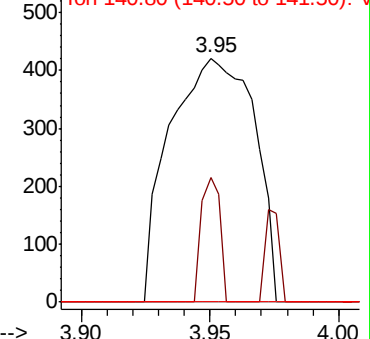
142 100

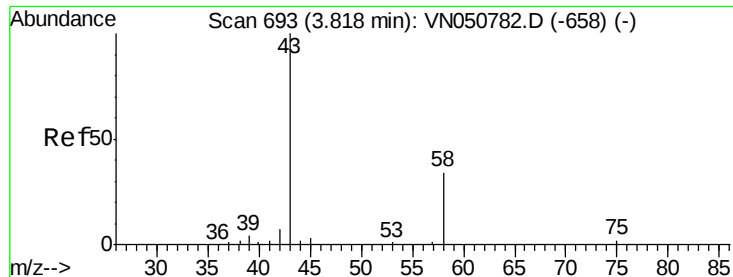
127 11.7 31.7 47.5#

141 0.0 11.4 17.0#



Abundance Ion 141.80 (141.50 to 142.50): VN050802.D (-642) (-)





#16

Acetone

Concen: 4.882 ug/l

RT: 3.82 min Scan# 695

Delta R.T. 0.01 min

Lab File: VN050802.D

Acq: 22 Aug 2018 00:15

Instrument :

MSVOA_N

ClientSampleId :

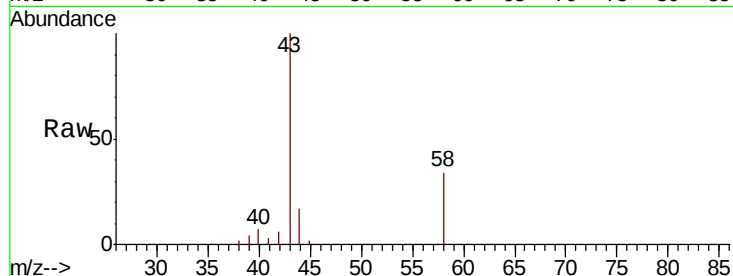
PB112227ZHE#08

Tot Ion: 43 Resp: 20124

Ion Ratio Lower Upper

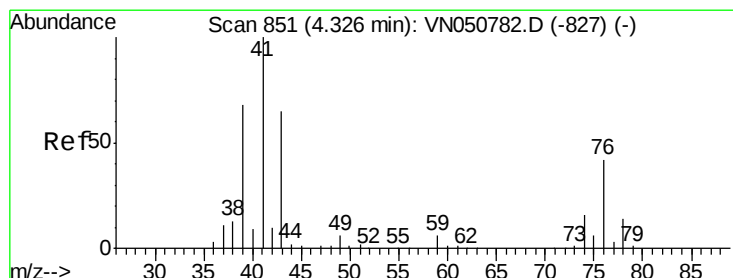
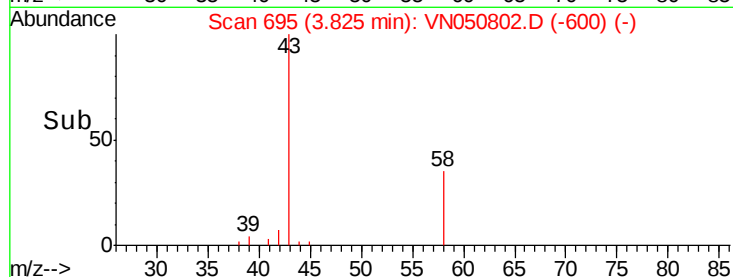
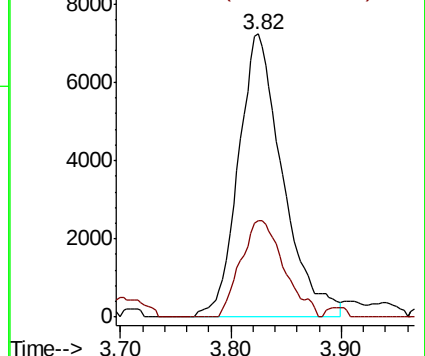
43 100

58 34.3 27.2 40.8



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#18

Methyl Acetate

Concen: 1.990 ug/l

RT: 4.33 min Scan# 852

Delta R.T. 0.00 min

Lab File: VN050802.D

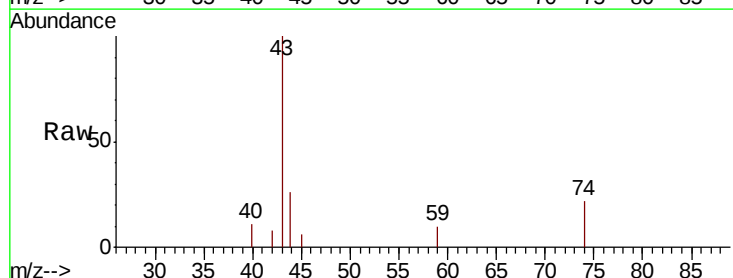
Acq: 22 Aug 2018 00:15

Tgt Ion: 43 Resp: 13522

Ion Ratio Lower Upper

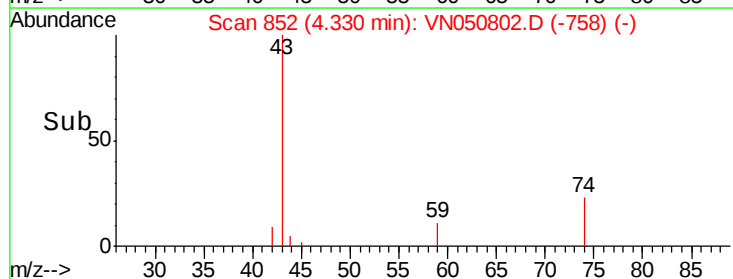
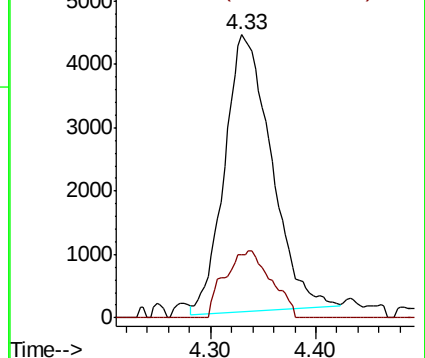
43 100

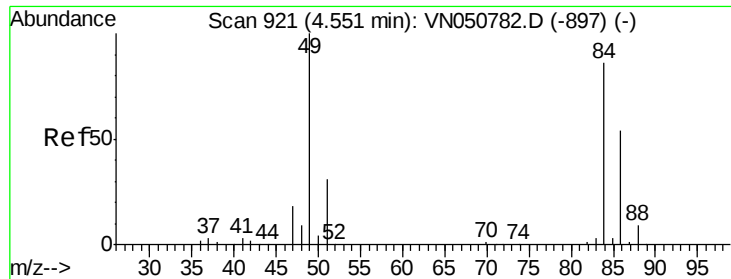
74 23.9 19.8 29.8



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

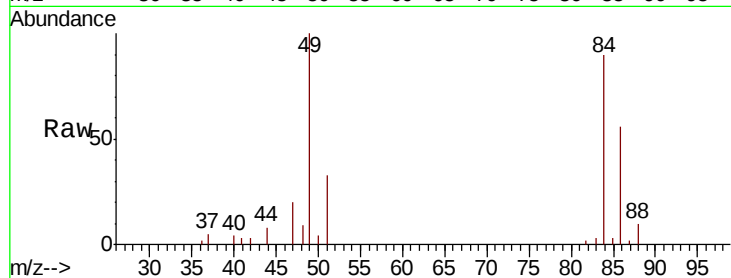




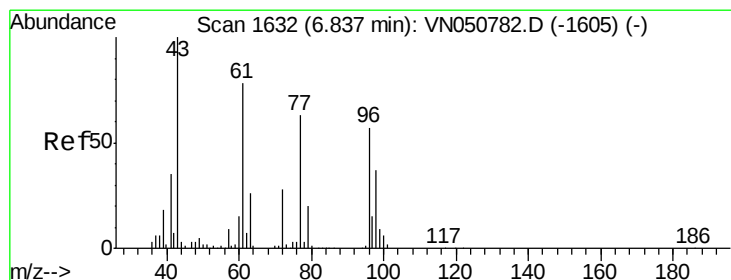
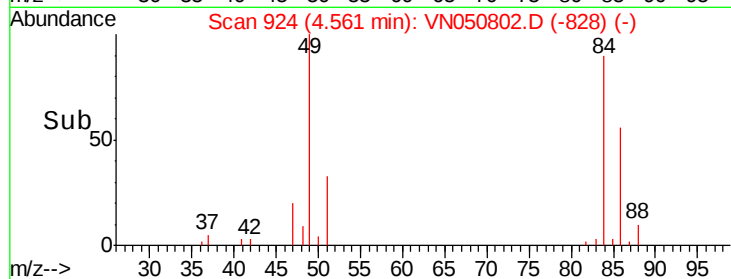
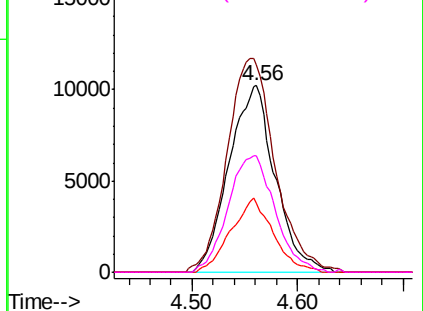
#20
Methvlene Chloride
Concen: 3.840 ug/l
RT: 4.56 min Scan# 924
Delta R.T. 0.01 min
Lab File: VN050802.D
Acq: 22 Aug 2018 00:15

Instrument :
MSVOA_N
ClientSampleId :
PB112227ZHE#08

Tot Ion: 84 Resp: 31147
Ion Ratio Lower Upper
84 100
49 109.4 93.2 139.8
51 37.0 29.0 43.6
86 62.4 49.8 74.8

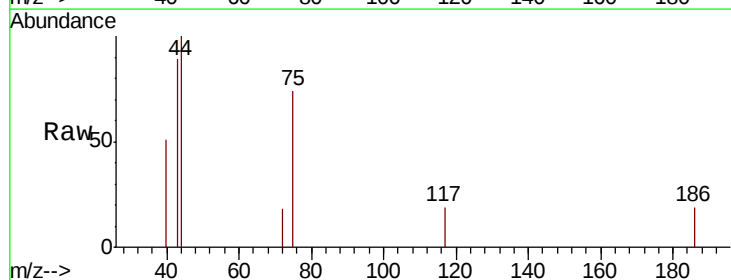


Abundance Ion 83.90 (83.60 to 84.60): VNC
Ion 48.90 (48.60 to 49.60): VNC
Ion 50.90 (50.60 to 51.60): VNC
Ion 85.90 (85.60 to 86.60): VNC

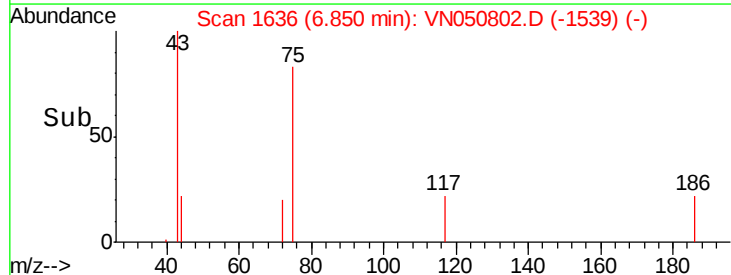
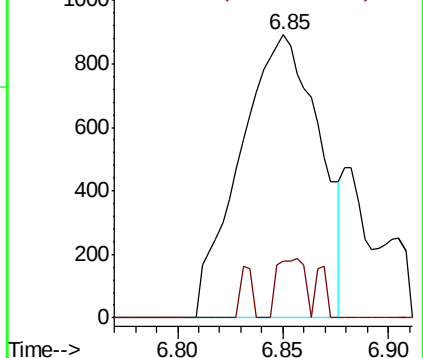


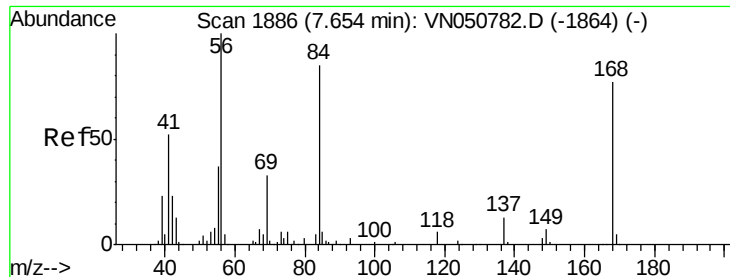
#25
2-Butanone
Concen: 0.802 ug/l
RT: 6.85 min Scan# 1636
Delta R.T. 0.01 min
Lab File: VN050802.D
Acq: 22 Aug 2018 00:15

Tgt Ion: 43 Resp: 2325
Ion Ratio Lower Upper
43 100
72 19.8 22.3 33.5#



Abundance Ion 43.00 (42.70 to 43.70): VNC
Ion 72.00 (71.70 to 72.70): VNC

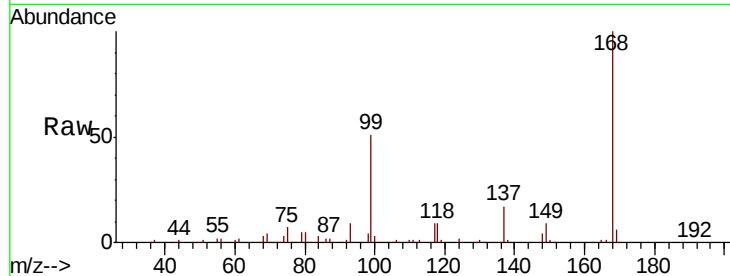




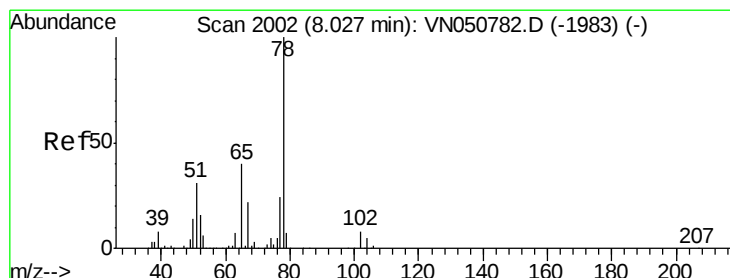
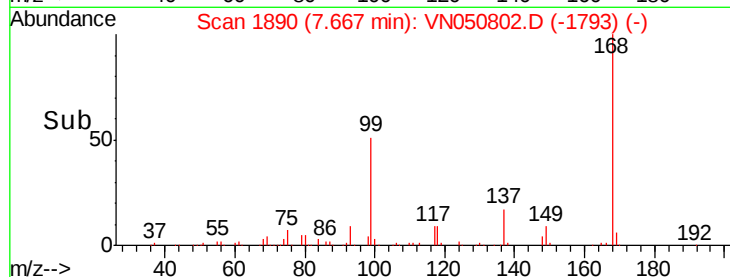
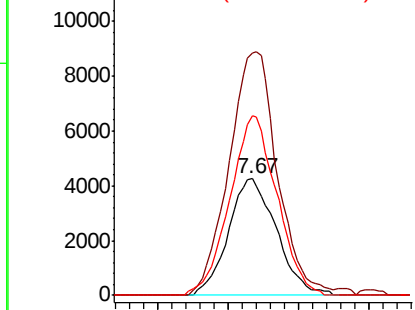
#31
Cyclohexane
Concen: 1.287 ug/l
RT: 7.67 min Scan# 1890
Delta R.T. 0.01 min
Lab File: VN050802.D
Acq: 22 Aug 2018 00:15

Instrument :
MSVOA_N
ClientSampleId :
PB112227ZHE#08

Tot Ion: 56 Resp: 10140
Ion Ratio Lower Upper
56 100
69 207.9 26.2 39.4#
84 155.0 68.3 102.5#

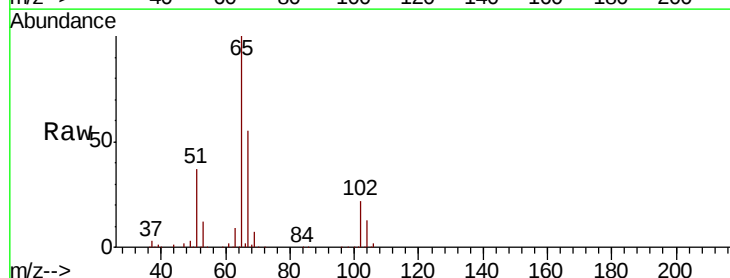


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

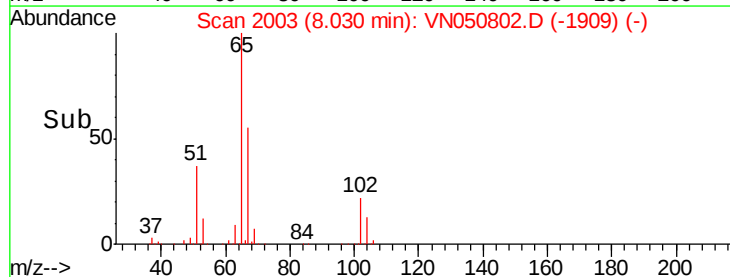
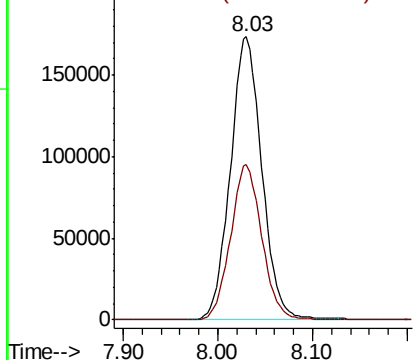


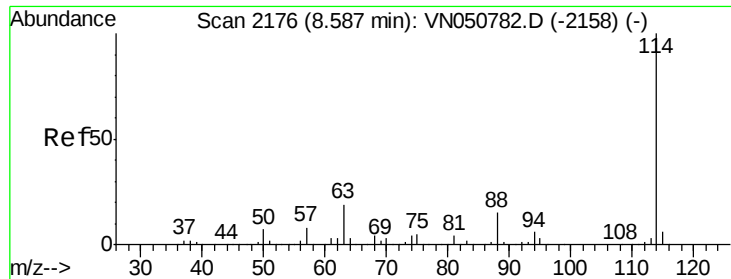
#33
1,2-Dichloroethane-d4
Concen: 55.788 ug/l
RT: 8.03 min Scan# 2003
Delta R.T. 0.00 min
Lab File: VN050802.D
Acq: 22 Aug 2018 00:15

Tgt Ion: 65 Resp: 401497
Ion Ratio Lower Upper
65 100
67 54.4 0.0 110.4



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

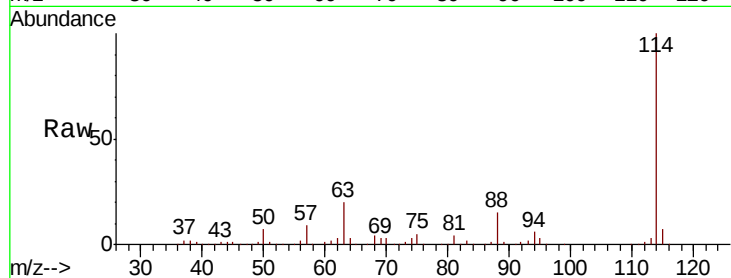




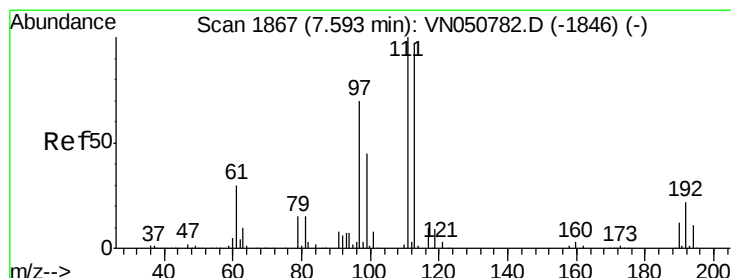
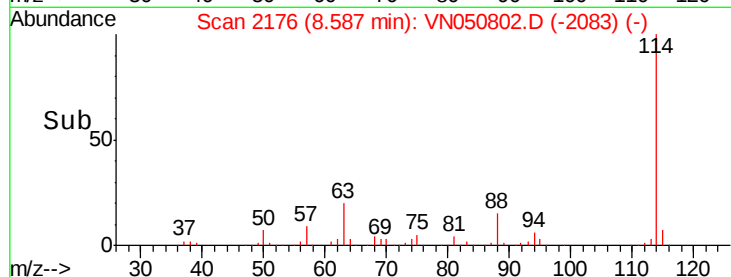
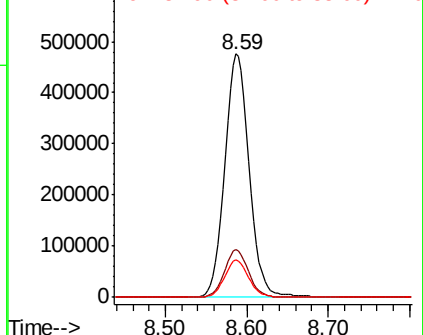
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2176
 Delta R.T. 0.00 min
 Lab File: VN050802.D
 Acq: 22 Aug 2018 00:15

Instrument :
 MSVOA_N
 ClientSampleId :
 PB112227ZHE#08

Tot Ion:114 Resp: 1007507
 Ion Ratio Lower Upper
 114 100
 63 19.5 0.0 38.6
 88 15.3 0.0 30.6

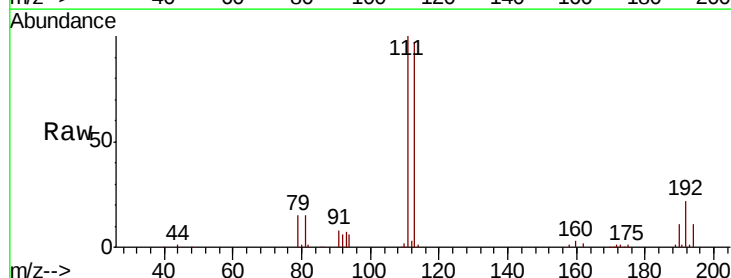


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

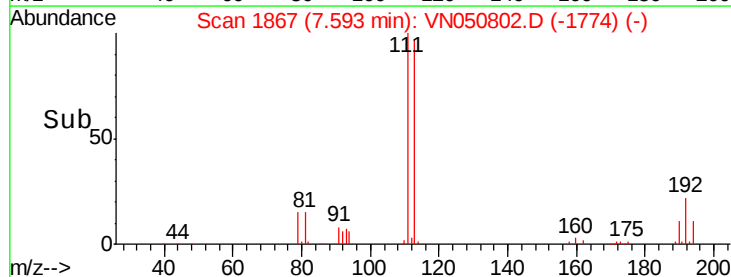
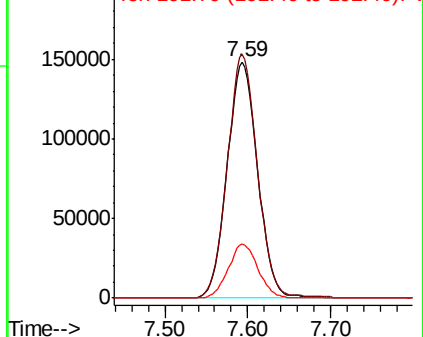


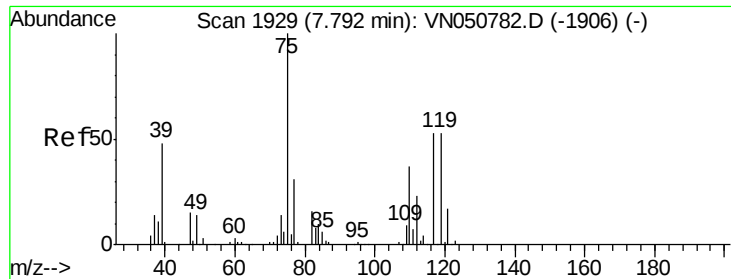
#35
 Dibromofluoromethane
 Concen: 47.336 ug/l
 RT: 7.59 min Scan# 1867
 Delta R.T. 0.00 min
 Lab File: VN050802.D
 Acq: 22 Aug 2018 00:15

Tgt Ion:113 Resp: 379414
 Ion Ratio Lower Upper
 113 100
 111 102.0 82.6 123.8
 192 22.5 18.0 27.0



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

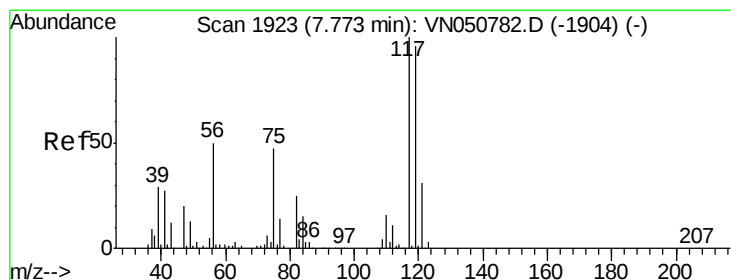
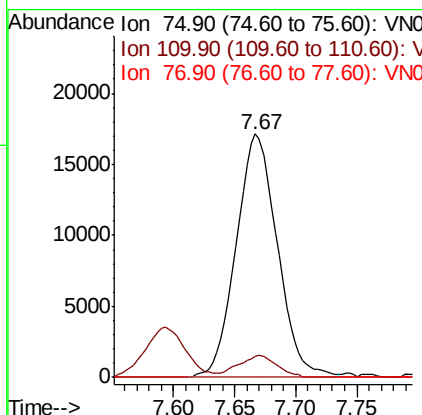
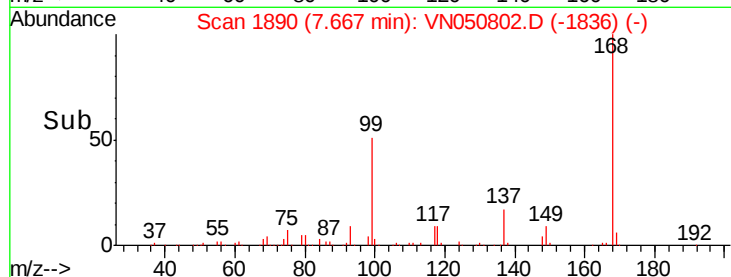
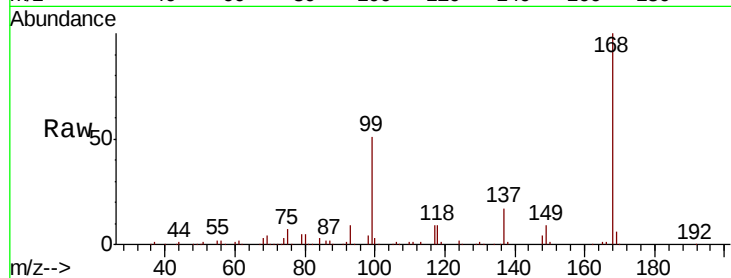




#36
 1,1-Dichloropropene
 Concen: 3.369 ug/l
 RT: 7.67 min Scan# 1890
 Delta R.T. -0.13 min
 Lab File: VN050802.D
 Acq: 22 Aug 2018 00:15

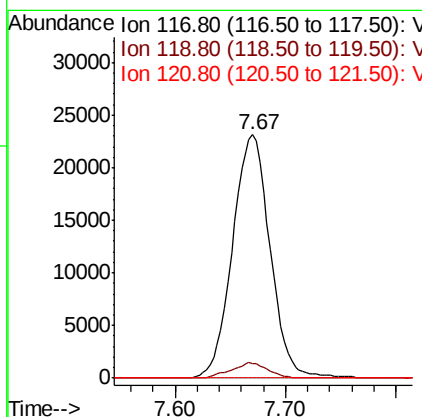
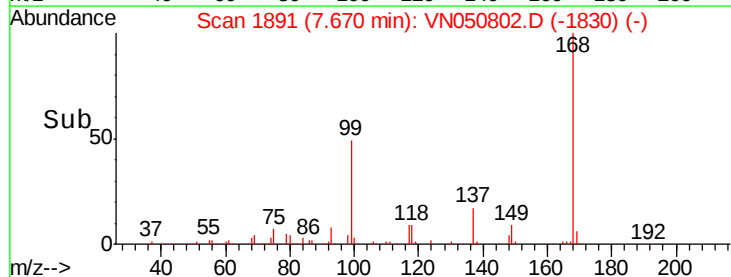
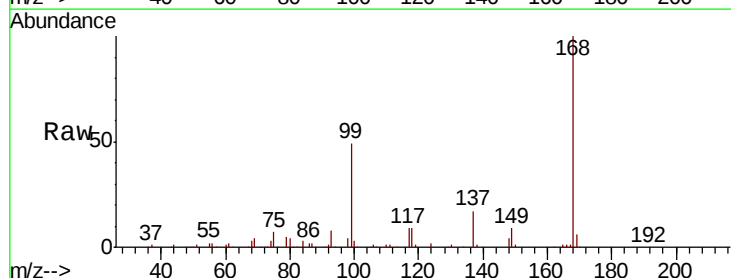
Instrument :
 MSVOA_N
 ClientSampleId :
 PB112227ZHE#08

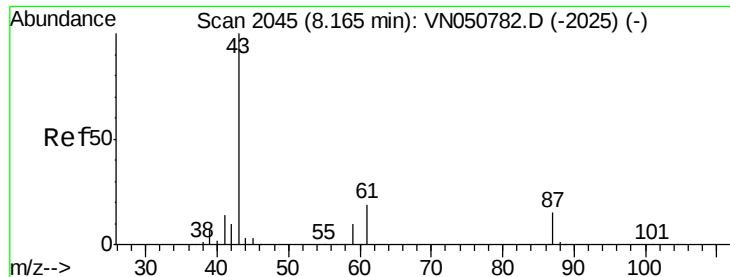
Tot Ion	Ratio	Lower	Upper
75	100		
110	8.4	18.1	54.4#
77	0.0	24.8	37.2#



#38
 Carbon Tetrachloride
 Concen: 4.535 ug/l
 RT: 7.67 min Scan# 1891
 Delta R.T. -0.10 min
 Lab File: VN050802.D
 Acq: 22 Aug 2018 00:15

Tgt Ion	Ratio	Lower	Upper
117	100		
119	6.2	76.3	114.5#
121	0.0	24.6	36.8#





#43

Isopropyl Acetate

Concen: 26.929 ug/l

RT: 8.17 min Scan# 2046

Delta R.T. 0.00 min

Lab File: VN050802.D

Acq: 22 Aug 2018 00:15

Instrument :

MSVOA_N

ClientSampleId :

PB112227ZHE#08

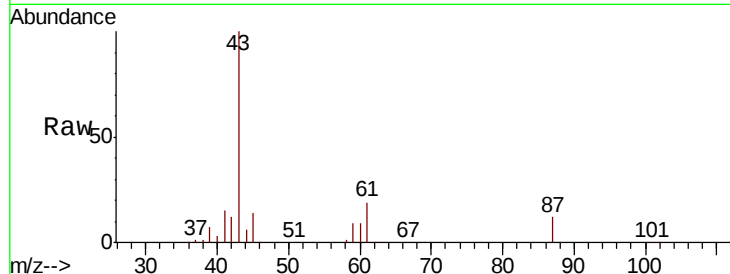
Tot Ion: 43 Resp: 316215

Ion Ratio Lower Upper

43 100

61 16.9 17.5 26.3#

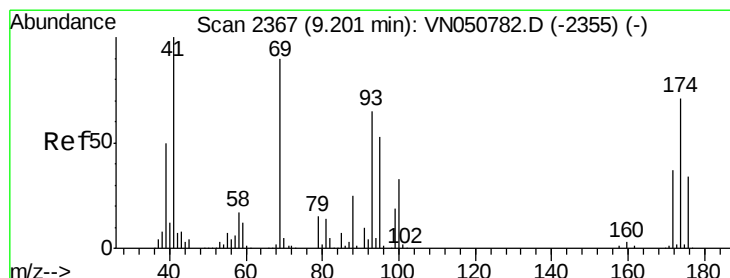
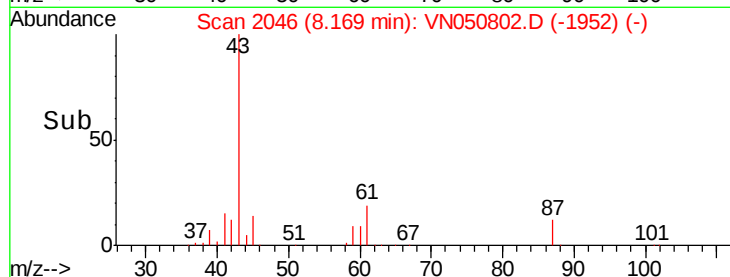
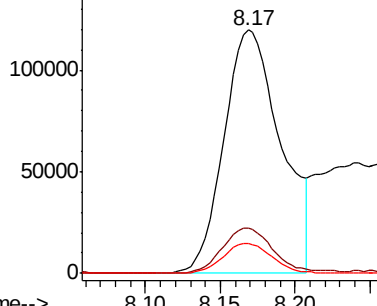
87 10.9 11.3 16.9#



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: 1.175 ug/l

RT: 9.18 min Scan# 2361

Delta R.T. -0.02 min

Lab File: VN050802.D

Acq: 22 Aug 2018 00:15

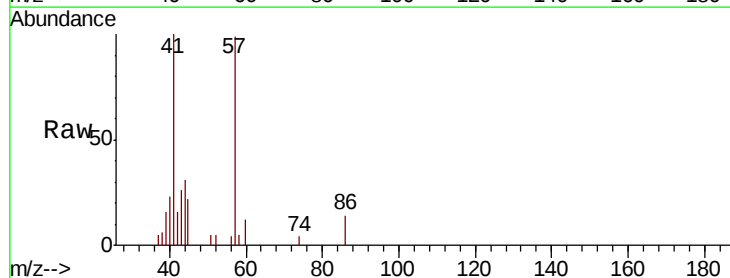
Tgt Ion: 41 Resp: 7034

Ion Ratio Lower Upper

41 100

69 0.0 74.7 112.1#

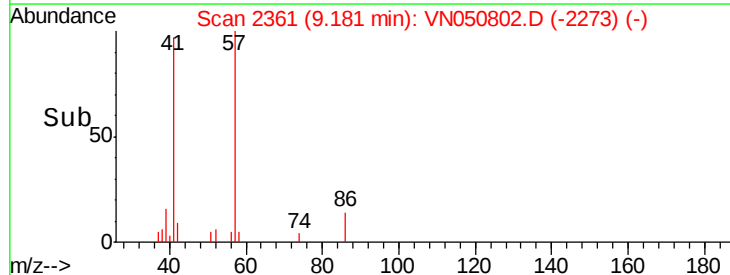
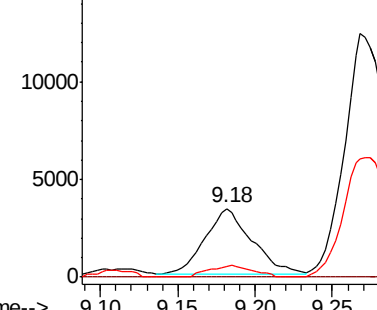
39 16.2 42.2 63.2#

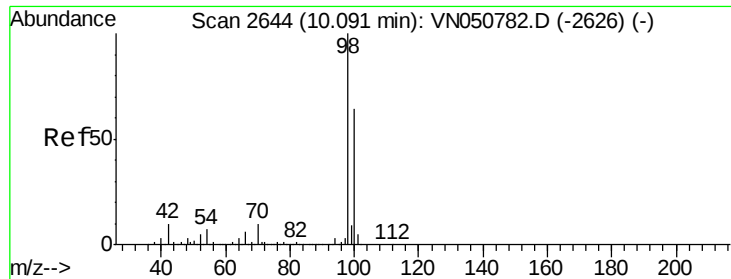


Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 39.00 (38.70 to 39.70): VN0





#50

Toluene-d8

Concen: 46.132 ug/l

RT: 10.09 min Scan# 2644

Delta R.T. 0.00 min

Lab File: VN050802.D

Acq: 22 Aug 2018 00:15

Instrument :

MSVOA_N

ClientSampleId :

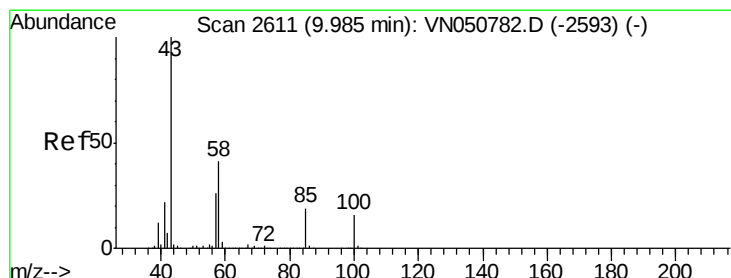
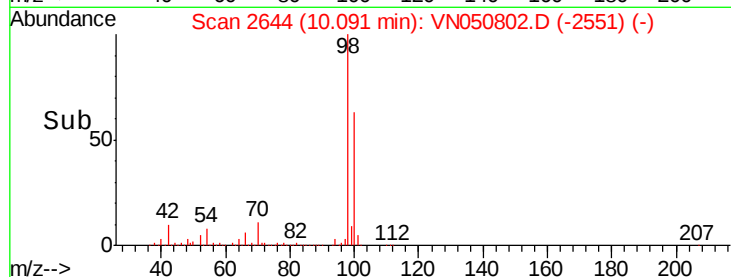
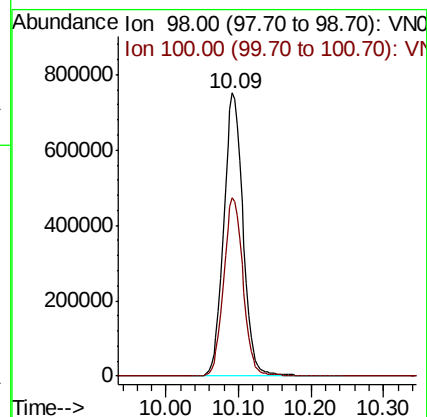
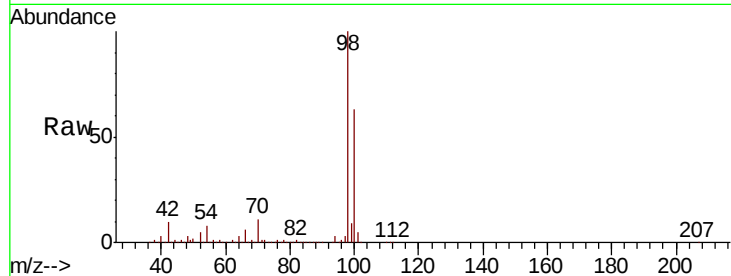
PB112227ZHE#08

Tot Ion: 98 Resp: 1382422

Ion Ratio Lower Upper

98 100

100 63.6 51.5 77.3



#51

4-Methyl-2-Pentanone

Concen: 0.348 ug/l

RT: 9.99 min Scan# 2611

Delta R.T. 0.00 min

Lab File: VN050802.D

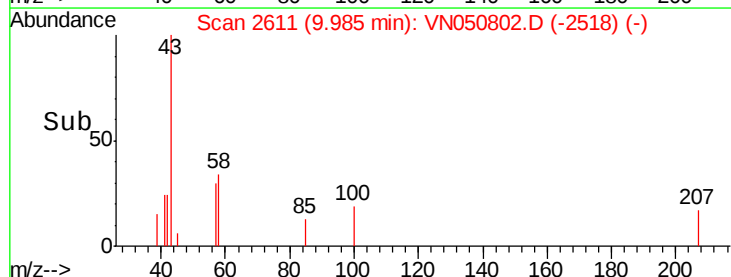
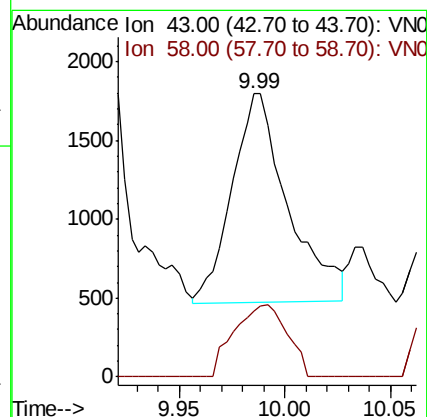
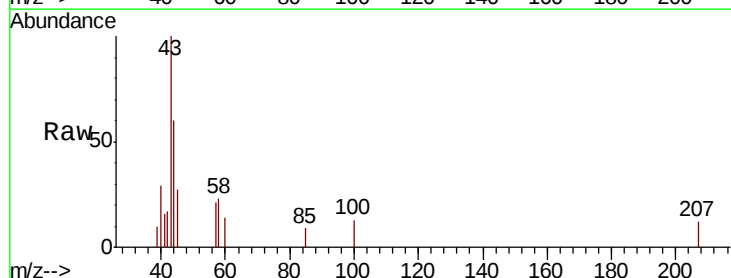
Acq: 22 Aug 2018 00:15

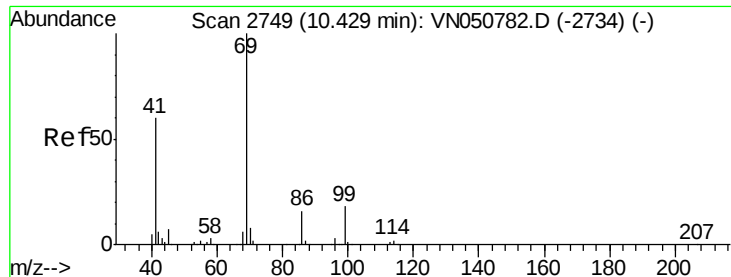
Tgt Ion: 43 Resp: 2436

Ion Ratio Lower Upper

43 100

58 32.8 32.4 48.6





#56

Ethyl methacrylate

Concen: 2.560 ug/l

RT: 10.23 min Scan# 2686

Delta R.T. -0.20 min

Lab File: VN050802.D

Acq: 22 Aug 2018 00:15

Instrument :

MSVOA_N

ClientSampleId :

PB112227ZHE#08

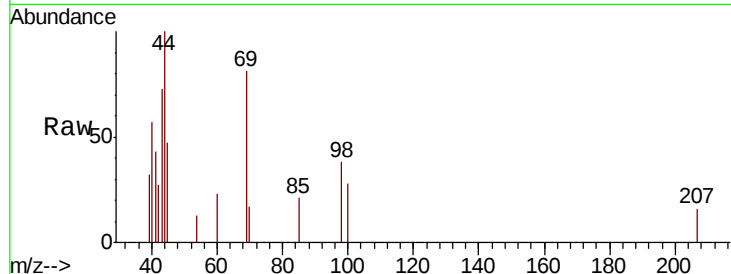
Tot Ion: 69 Resp: 2259

Ion Ratio Lower Upper

69 100

41 13.9 48.3 72.5#

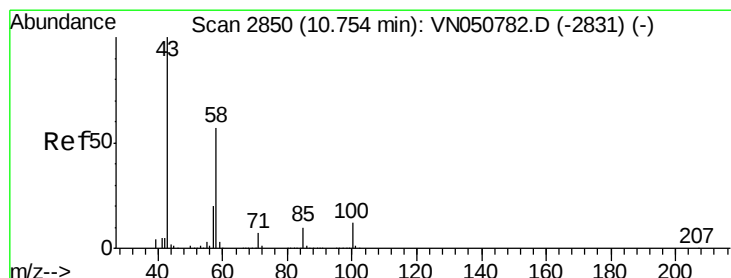
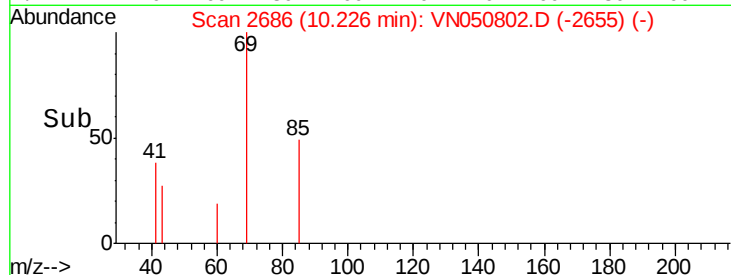
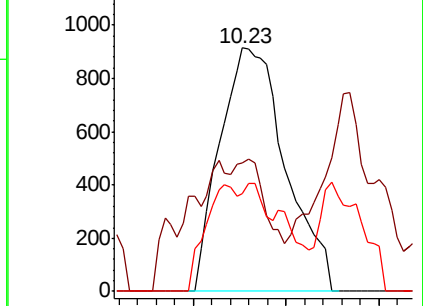
39 21.1 24.0 36.0#



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: 3.476 ug/l

RT: 10.77 min Scan# 2854

Delta R.T. 0.01 min

Lab File: VN050802.D

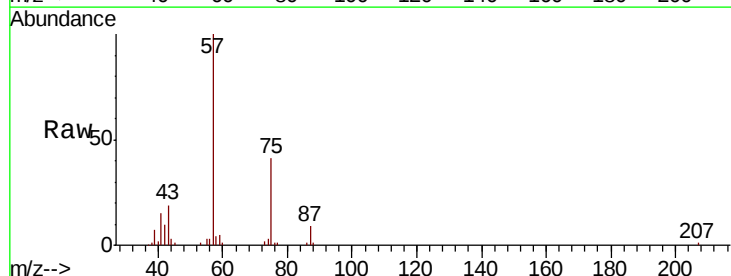
Acq: 22 Aug 2018 00:15

Tgt Ion: 43 Resp: 16215

Ion Ratio Lower Upper

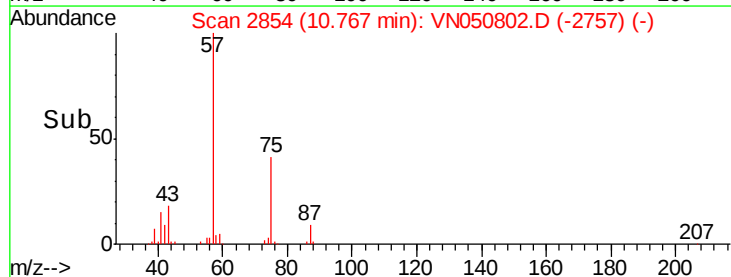
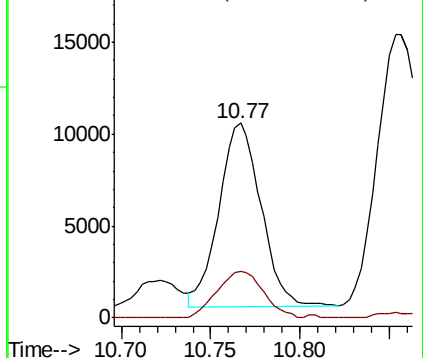
43 100

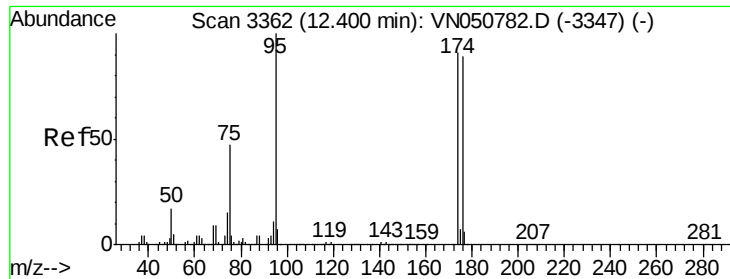
58 28.2 28.3 85.0#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#62

4-Bromofluorobenzene

Concen: 38.201 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.00 min

Lab File: VN050802.D

Acq: 22 Aug 2018 00:15

Instrument :

MSVOA_N

ClientSampleId :

PB112227ZHE#08

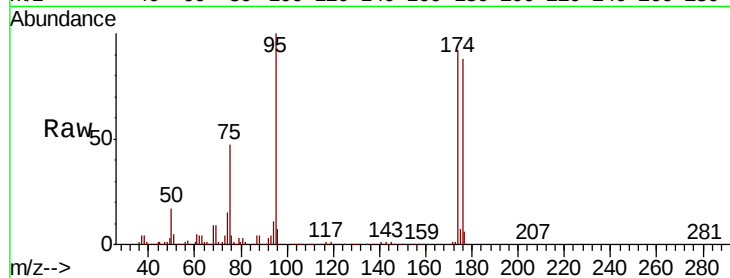
Tot Ion: 95 Resp: 380411

Ion Ratio Lower Upper

95 100

174 91.0 0.0 183.0

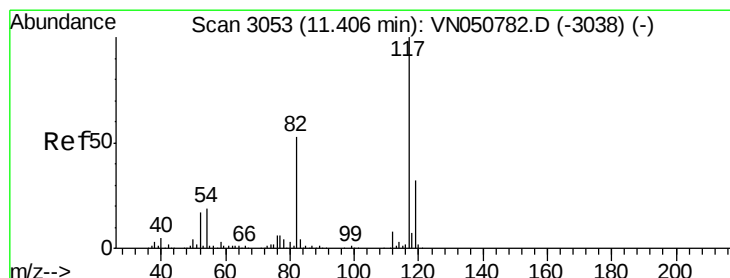
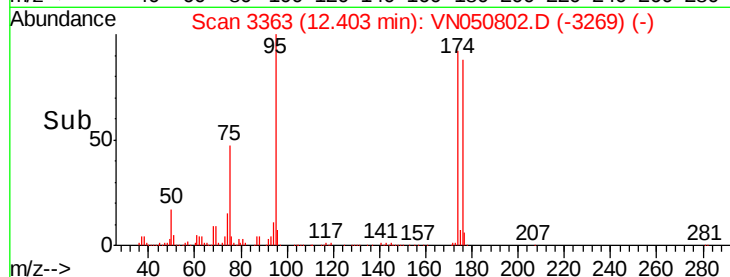
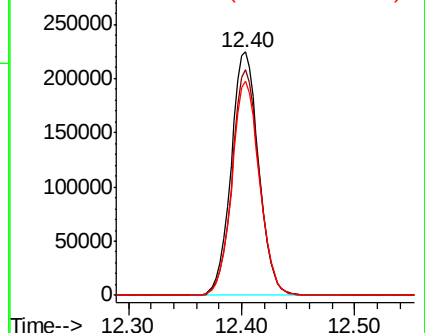
176 87.5 0.0 178.8



Abundance Ion 94.90 (94.60 to 95.60): VN050782.D (-3347) (-)

Ion 173.80 (173.50 to 174.50): VN050782.D (-3347) (-)

Ion 175.80 (175.50 to 176.50): VN050782.D (-3347) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 3054

Delta R.T. 0.00 min

Lab File: VN050802.D

Acq: 22 Aug 2018 00:15

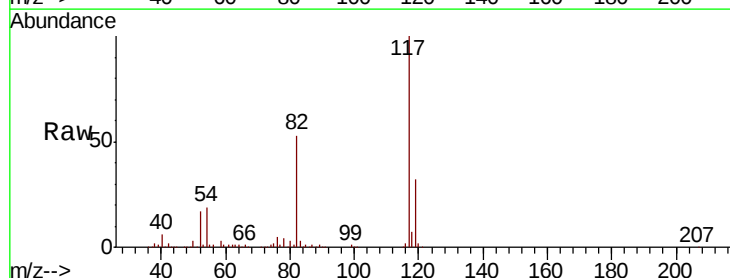
Tgt Ion: 117 Resp: 879678

Ion Ratio Lower Upper

117 100

82 53.1 42.6 64.0

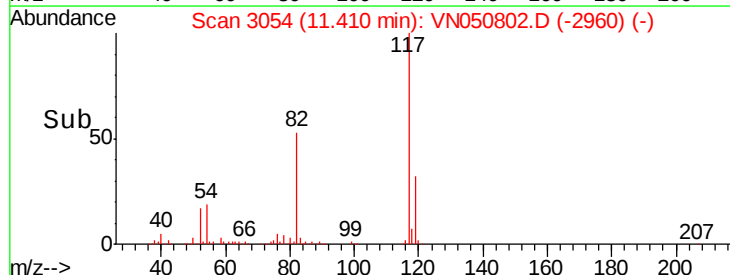
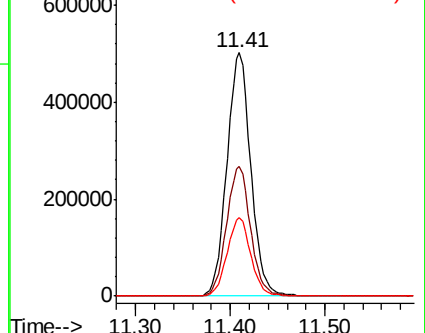
119 32.3 25.8 38.6

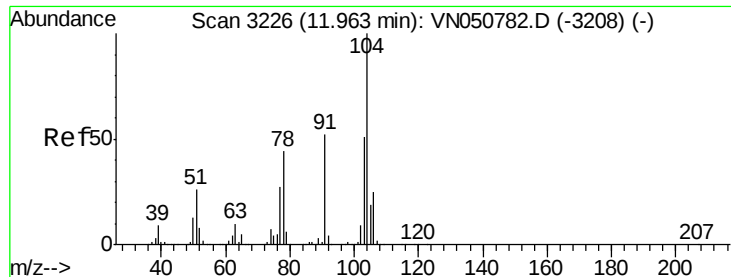


Abundance Ion 116.90 (116.60 to 117.60): VN050782.D (-3038) (-)

Ion 82.00 (81.70 to 82.70): VN050782.D (-3038) (-)

Ion 118.90 (118.60 to 119.60): VN050782.D (-3038) (-)





#70

Stvrene

Concen: 1.273 ug/l

RT: 11.96 min Scan# 3224

Delta R.T. -0.01 min

Lab File: VN050802.D

Acq: 22 Aug 2018 00:15

Instrument :

MSVOA_N

ClientSampleId :

PB112227ZHE#08

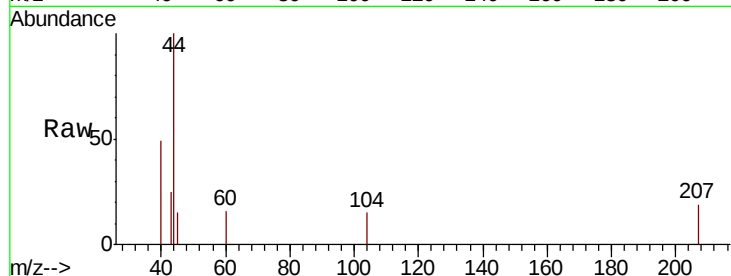
Tot Ion:104 Resp: 64

Ion Ratio Lower Upper

104 100

78 98.4 38.2 57.4#

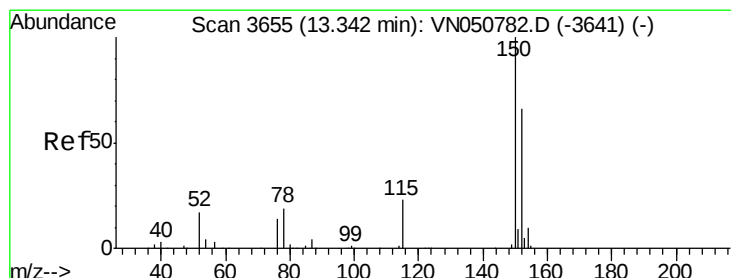
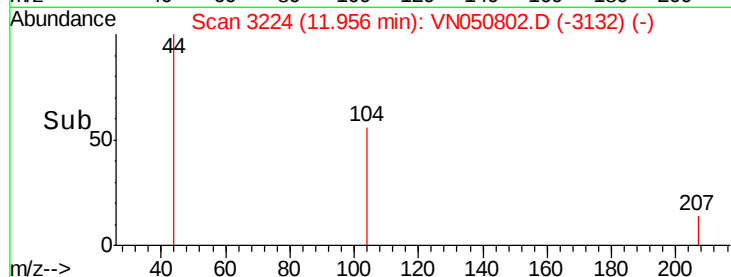
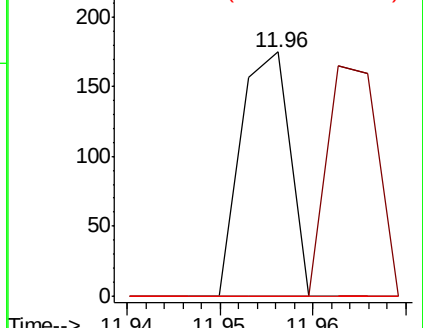
103 0.0 44.4 66.6#



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VN

Ion 103.00 (102.70 to 103.70): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3656

Delta R.T. 0.00 min

Lab File: VN050802.D

Acq: 22 Aug 2018 00:15

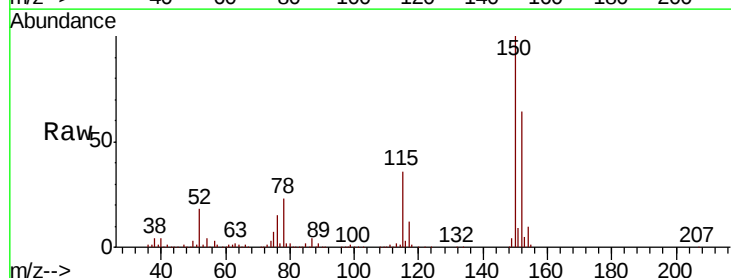
Tgt Ion:152 Resp: 295760

Ion Ratio Lower Upper

152 100

115 57.2 27.8 83.4

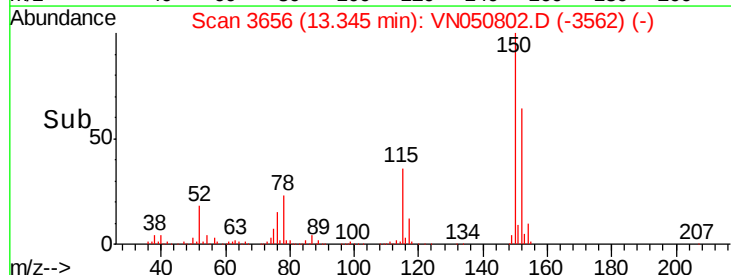
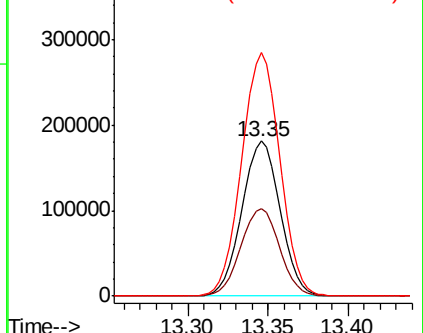
150 157.3 0.0 351.4

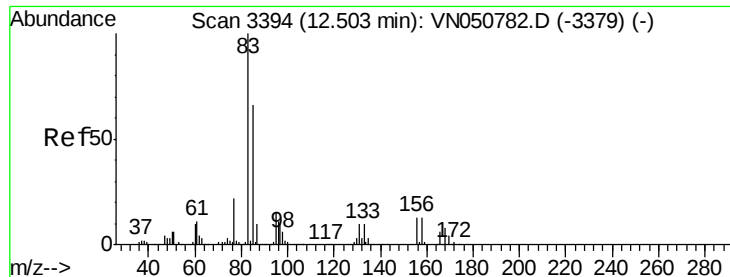


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.40 min Scan# 3361

Delta R.T. -0.11 min

Lab File: VN050802.D

Acq: 22 Aug 2018 00:15

Instrument :

MSVOA_N

ClientSampleId :

PB112227ZHE#08

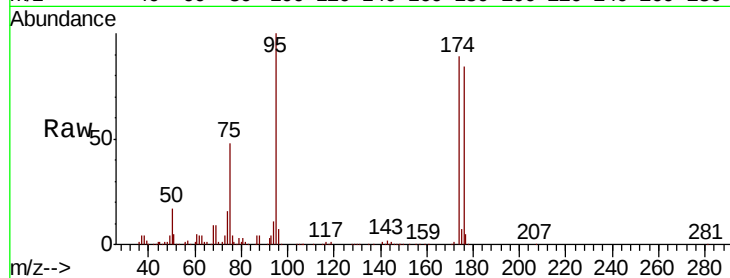
Tot Ion: 83 Resp: 101

Ion Ratio Lower Upper

83 100

131 227.7 5.3 15.9#

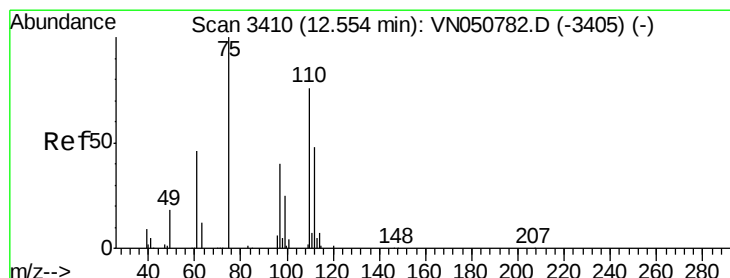
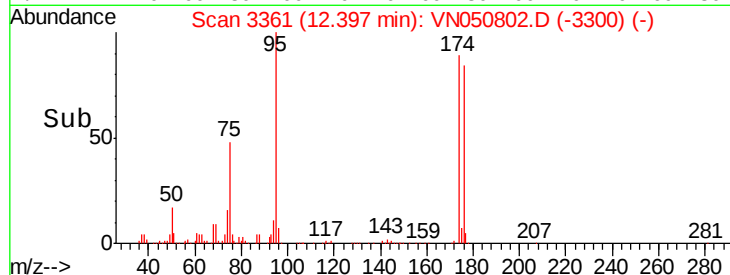
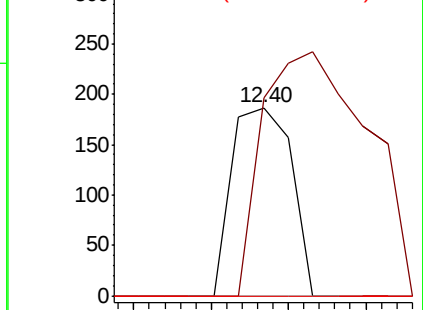
85 0.0 31.9 95.7#



Abundance Ion 82.90 (82.60 to 83.60): VNO

Ion 130.80 (130.50 to 131.50): VNO

Ion 84.90 (84.60 to 85.60): VNO



#76

1,2,3-Trichloropropane

Concen: 34.557 ug/l

RT: 12.40 min Scan# 3362

Delta R.T. -0.15 min

Lab File: VN050802.D

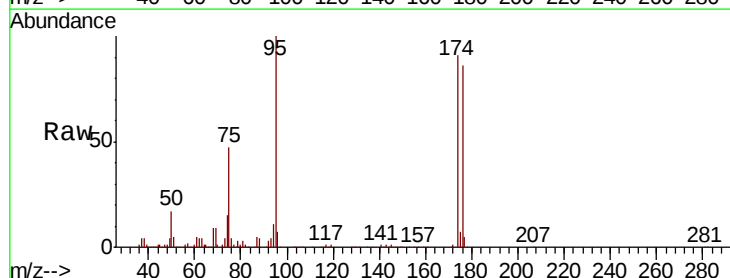
Acq: 22 Aug 2018 00:15

Tgt Ion: 75 Resp: 179014

Ion Ratio Lower Upper

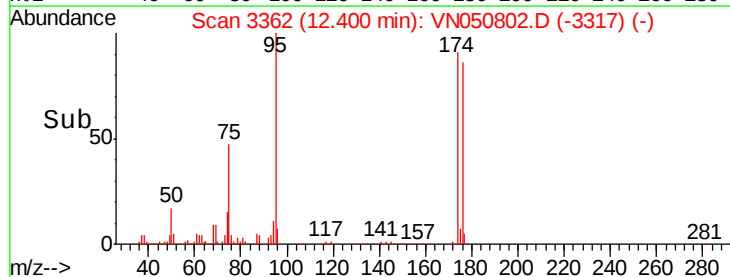
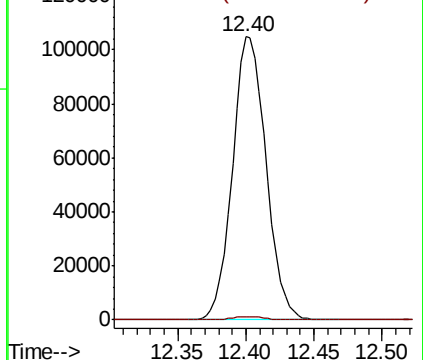
75 100

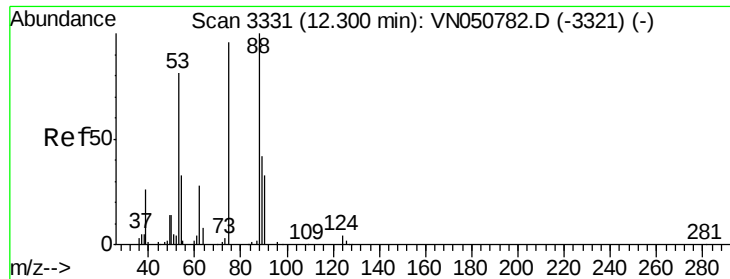
77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 77.00 (76.70 to 77.70): VNO





#81

trans-1,4-Dichloro-2-butene

Concen: 116.823 ug/l

RT: 12.40 min Scan# 3362

Delta R.T. 0.10 min

Lab File: VN050802.D

Acq: 22 Aug 2018 00:15

Instrument :

MSVOA_N

ClientSampleId :

PB112227ZHE#08

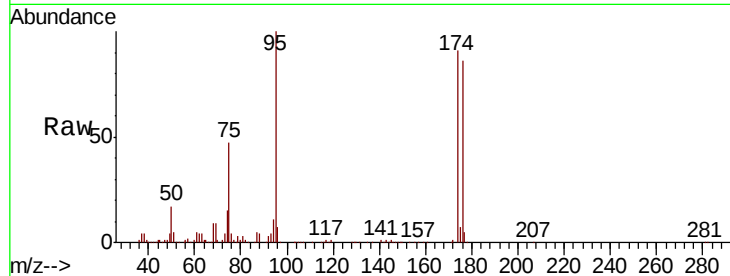
Tot Ion: 75 Resp: 179014

Ion Ratio Lower Upper

75 100

53 0.2 68.9 103.3#

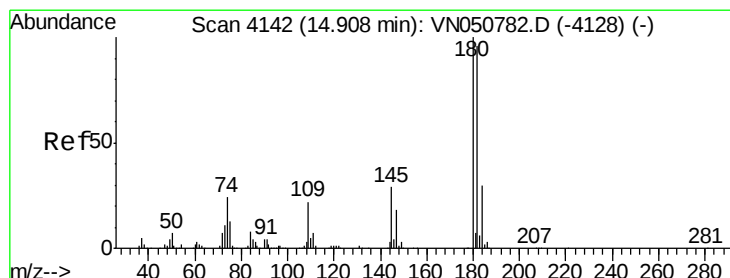
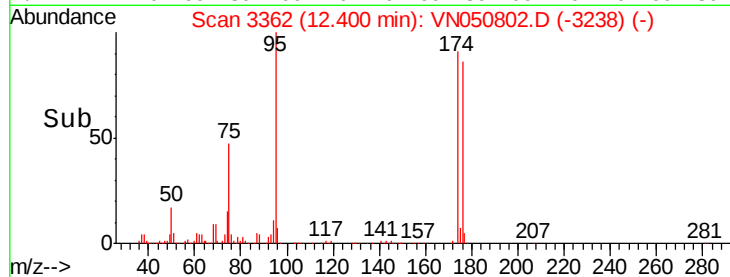
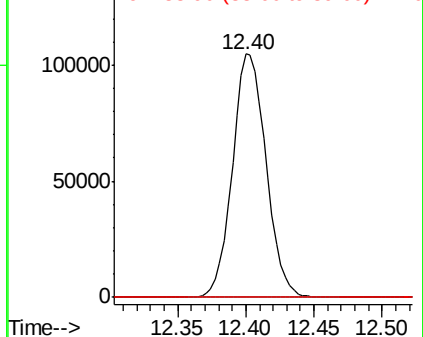
89 0.0 36.1 54.1#



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



#93

1,2,4-Trichlorobenzene

Concen: 4.105 ug/l

RT: 14.92 min Scan# 4146

Delta R.T. 0.01 min

Lab File: VN050802.D

Acq: 22 Aug 2018 00:15

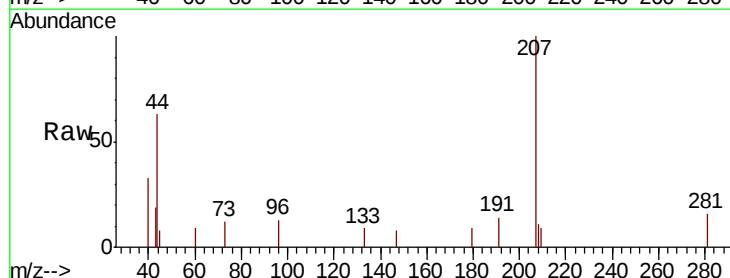
Tgt Ion: 180 Resp: 136

Ion Ratio Lower Upper

180 100

182 0.0 48.2 144.6#

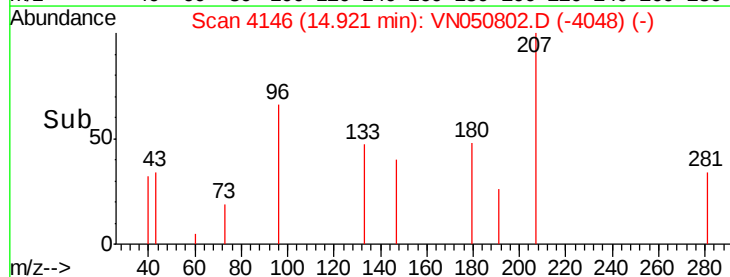
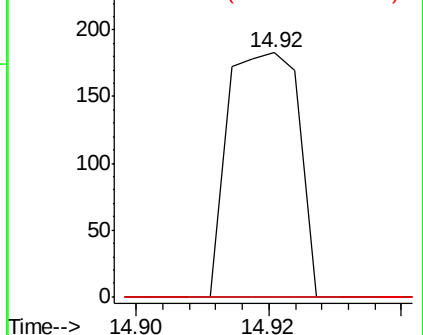
145 0.0 14.1 42.2#

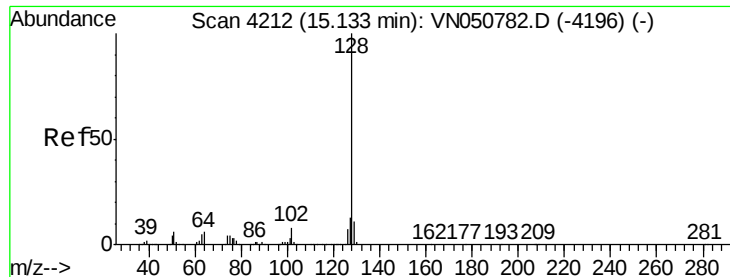


Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V





#95

Naphthalene

Concen: 5.418 ug/l

RT: 15.14 min Scan# 4213

Delta R.T. 0.00 min

Lab File: VN050802.D

Acq: 22 Aug 2018 00:15

Instrument :

MSVOA_N

ClientSampleId :

PB112227ZHE#08

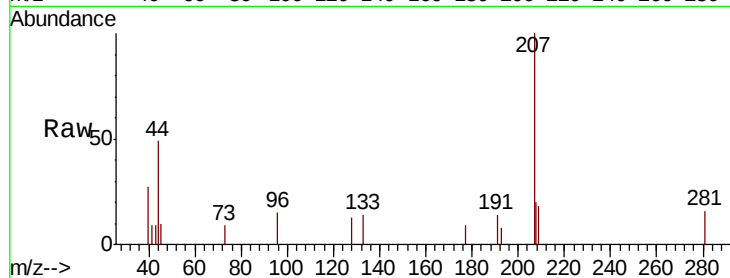
Tot Ion:128 Resp: 235

Ion Ratio Lower Upper

128 100

127 0.0 10.5 15.7#

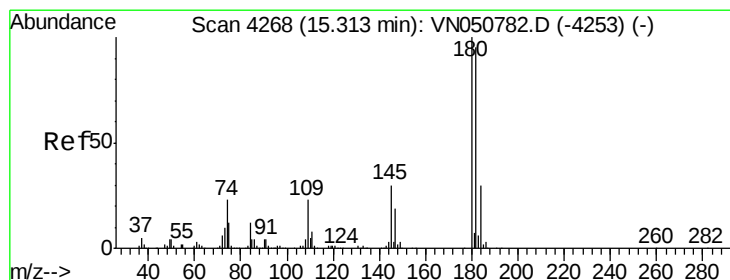
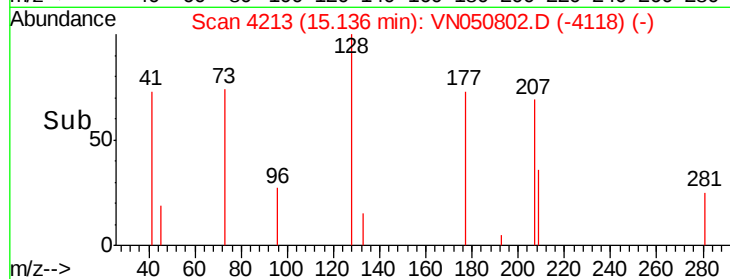
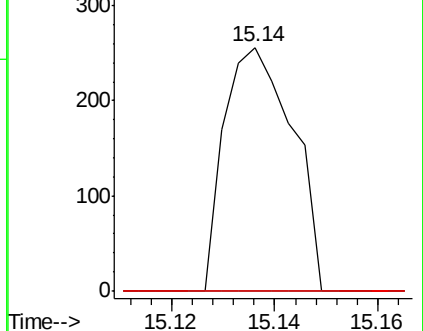
129 0.0 8.7 13.1#



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



#96

1,2,3-Trichlorobenzene

Concen: 3.307 ug/l

RT: 15.32 min Scan# 4270

Delta R.T. 0.01 min

Lab File: VN050802.D

Acq: 22 Aug 2018 00:15

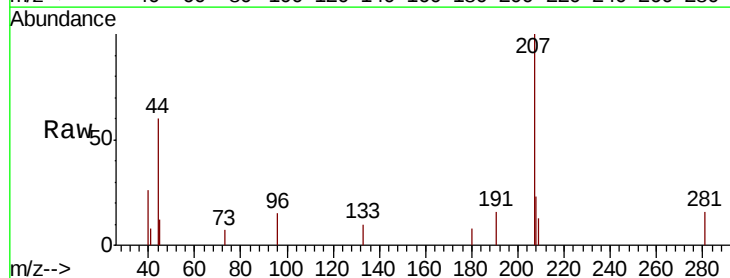
Tgt Ion:180 Resp: 65

Ion Ratio Lower Upper

180 100

182 0.0 48.0 144.2#

145 0.0 15.2 45.6#



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

