

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN082118\
 Data File : VN050807.D
 Acq On : 22 Aug 2018 2:17
 Operator : MD\SY
 Sample : PB112227ZHE#13
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 38 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB112227ZHE#13

Quant Time: Aug 22 06:46:43 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	610689	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1028929	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	868737	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	303452	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	412666	56.13	ug/l	0.00
Spiked Amount	50.000		Recovery	=	112.26%	
35) Dibromofluoromethane	7.59	113	393510	48.07	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.14%	
50) Toluene-d8	10.09	98	1378225	45.03	ug/l	0.00
Spiked Amount	50.000		Recovery	=	90.06%	
62) 4-Bromofluorobenzene	12.40	95	377057	37.08	ug/l	0.00
Spiked Amount	50.000		Recovery	=	74.16%	

Target Compounds

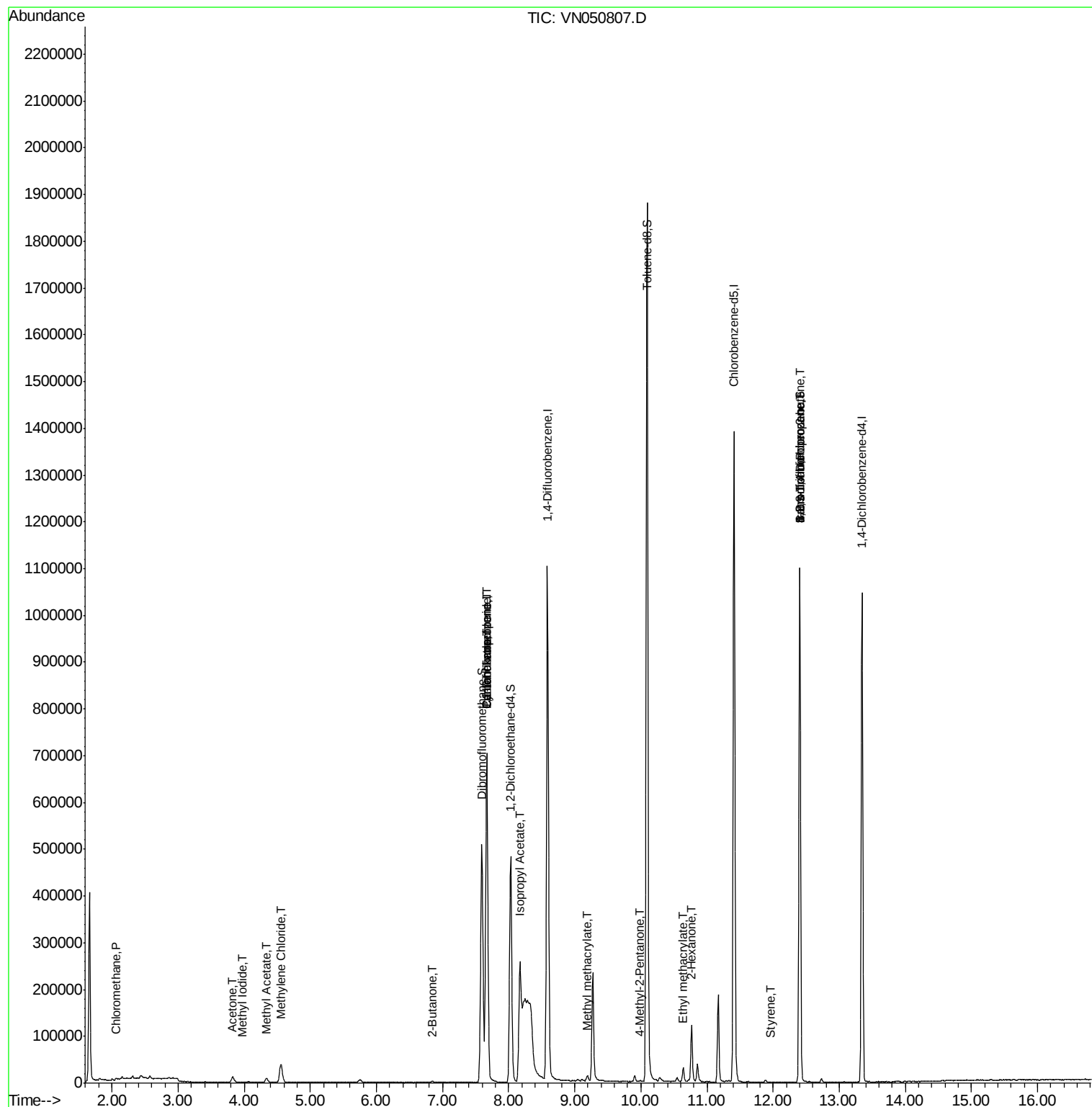
					Qvalue	
3) Chloromethane	2.06	50	2533	0.251	ug/l	99
5) Bromomethane	2.57	94	2796	Below Cal		99
10) Methyl Iodide	3.97	142	885	6.456	ug/l #	43
16) Acetone	3.83	43	19223	4.093	ug/l	98
18) Methyl Acetate	4.34	43	16715	2.408	ug/l #	77
20) Methylene Chloride	4.55	84	30504	3.681	ug/l	98
25) 2-Butanone	6.85	43	2704	0.913	ug/l	90
31) Cyclohexane	7.66	56	5082	0.866	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	42082	3.466	ug/l #	48
38) Carbon Tetrachloride	7.67	117	53283	4.341	ug/l #	16
43) Isopropyl Acetate	8.17	43	324521	27.061	ug/l #	89
48) Methyl methacrylate	9.18	41	6718	1.099	ug/l #	21
51) 4-Methyl-2-Pentanone	9.99	43	2382	0.333	ug/l #	80
56) Ethyl methacrylate	10.63	69	408	2.387	ug/l #	1
59) 2-Hexanone	10.77	43	16506	3.465	ug/l #	60
70) Styrene	11.97	104	64	1.273	ug/l #	60
71) Bromoform	12.40	173	2706	0.474	ug/l #	1
75) 1,1,2,2-Tetrachloroethane	12.40	83	132	Below Cal	#	1
76) 1,2,3-Trichloropropane	12.40	75	178052	33.500	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	178052	113.250	ug/l #	15

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. -0.00 min

Lab File: VN050807.D

Acq: 22 Aug 2018 2:17

Instrument :

MSVOA_N

ClientSampleId :

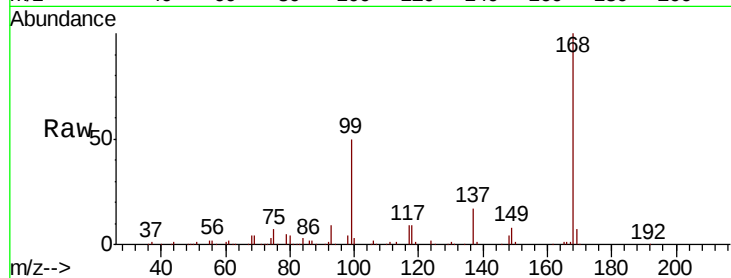
PB112227ZHE#13

Tot Ion:168 Resp: 610689

Ion Ratio Lower Upper

168 100

99 49.6 39.6 59.4



Abundance Ion 167.90 (167.60 to 168.60): VN050807.D (-1797) (-)

Ion 98.90 (98.60 to 99.60): VN050807.D (-1797) (-)

7.67

250000

200000

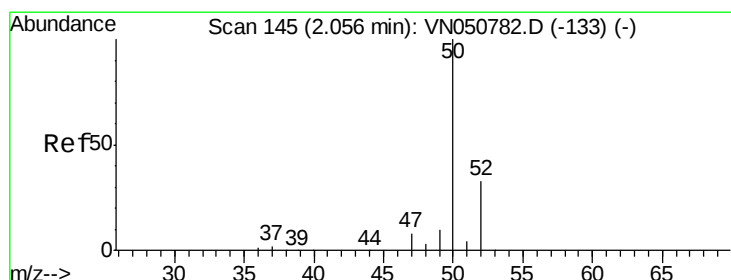
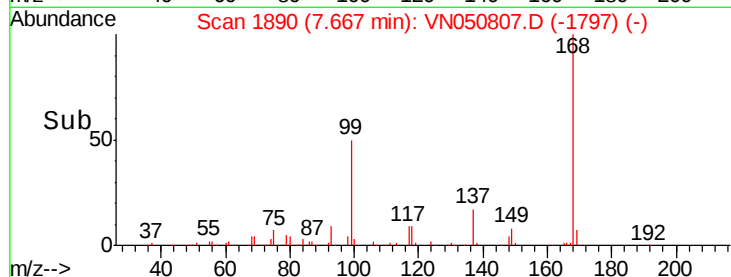
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 0.251 ug/l

RT: 2.06 min Scan# 146

Delta R.T. 0.00 min

Lab File: VN050807.D

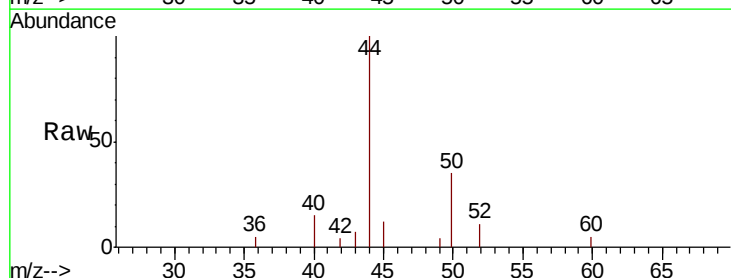
Acq: 22 Aug 2018 2:17

Tgt Ion: 50 Resp: 2533

Ion Ratio Lower Upper

50 100

52 32.3 26.3 39.5



Abundance Ion 49.90 (49.60 to 50.60): VN050807.D (-52) (-)

Ion 51.90 (51.60 to 52.60): VN050807.D (-52) (-)

2.06

2000

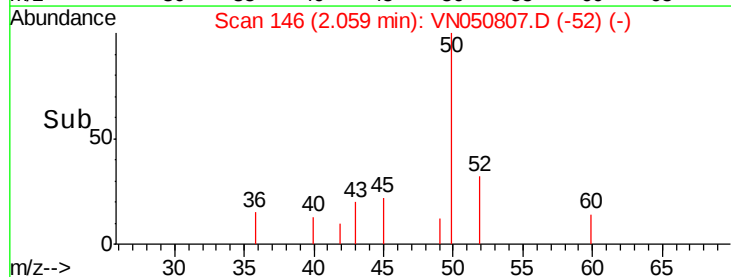
1500

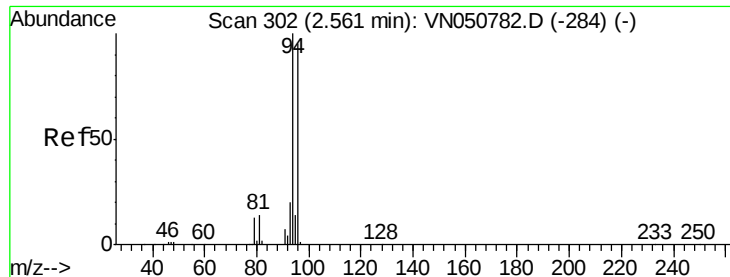
1000

500

0

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 2.57 min Scan# 306

Delta R.T. 0.01 min

Lab File: VN050807.D

Acq: 22 Aug 2018 2:17

Instrument :

MSVOA_N

ClientSampleId :

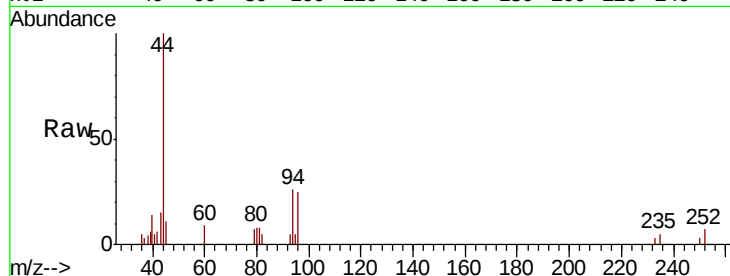
PB112227ZHE#13

Tot Ion: 94 Resp: 2796

Ion Ratio Lower Upper

94 100

96 96.2 76.2 114.2



Abundance Ion 93.90 (93.60 to 94.60): VN050807.D (-284) (-)

Ion 95.90 (95.60 to 96.60): VN050807.D (-284) (-)

2.57

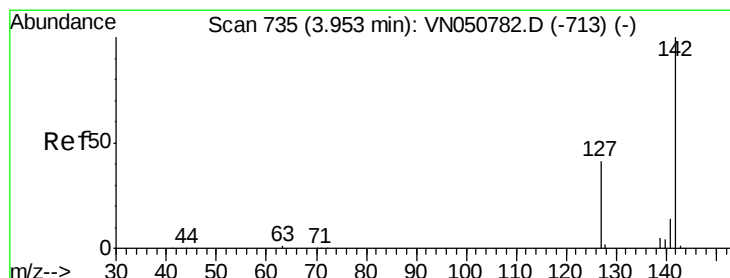
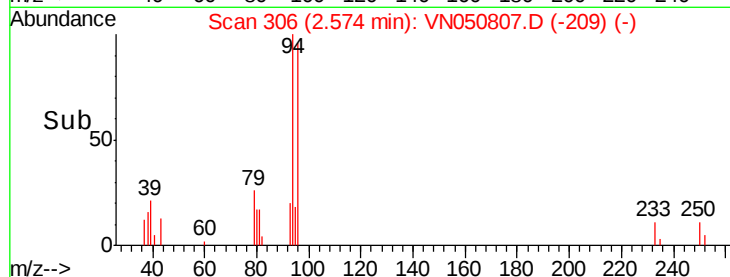
1500

1000

500

0

Time--> 2.50 2.55 2.60



#10

Methyl Iodide

Concen: 6.456 ug/l

RT: 3.97 min Scan# 739

Delta R.T. 0.01 min

Lab File: VN050807.D

Acq: 22 Aug 2018 2:17

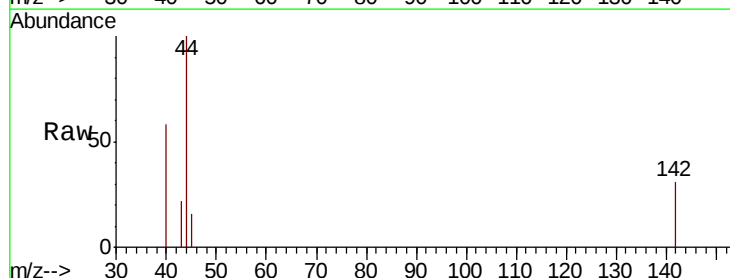
Tgt Ion: 142 Resp: 885

Ion Ratio Lower Upper

142 100

127 0.0 31.7 47.5#

141 0.0 11.4 17.0#



Abundance Ion 141.80 (141.50 to 142.50): VN050807.D (-642) (-)

Ion 126.80 (126.50 to 127.50): VN050807.D (-642) (-)

Ion 140.80 (140.50 to 141.50): VN050807.D (-642) (-)

3.97

500

400

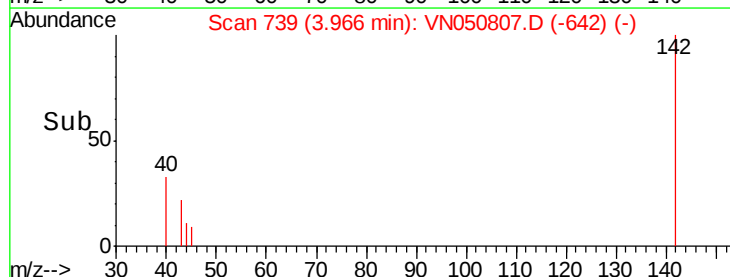
300

200

100

0

Time--> 3.95 4.00





#16

Acetone

Concen: 4.093 ug/l

RT: 3.83 min Scan# 696

Delta R.T. 0.01 min

Lab File: VN050807.D

Acq: 22 Aug 2018 2:17

Instrument :

MSVOA_N

ClientSampleId :

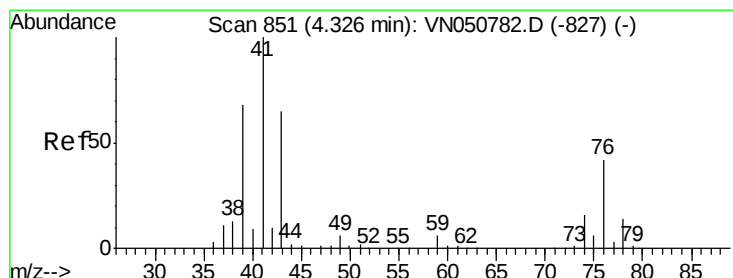
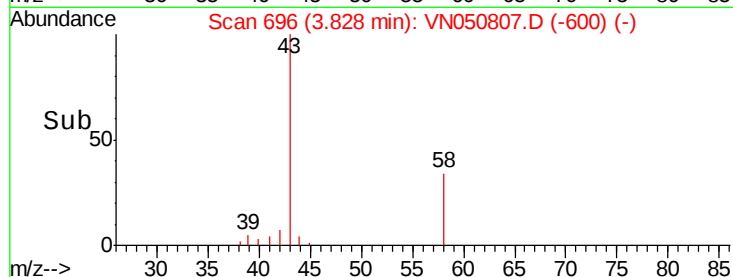
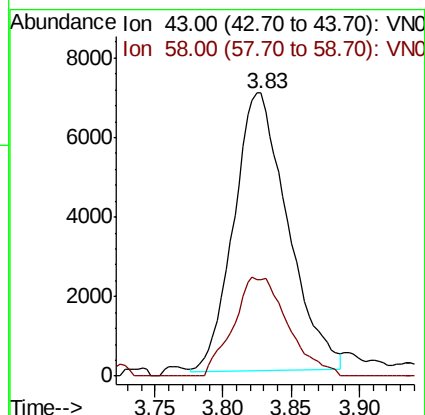
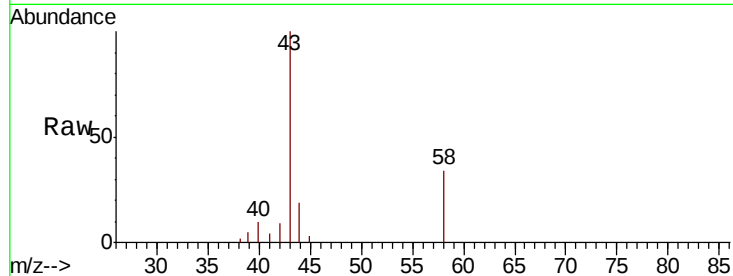
PB112227ZHE#13

Tot Ion: 43 Resp: 19223

Ion Ratio Lower Upper

43 100

58 35.1 27.2 40.8



#18

Methyl Acetate

Concen: 2.408 ug/l

RT: 4.34 min Scan# 855

Delta R.T. 0.01 min

Lab File: VN050807.D

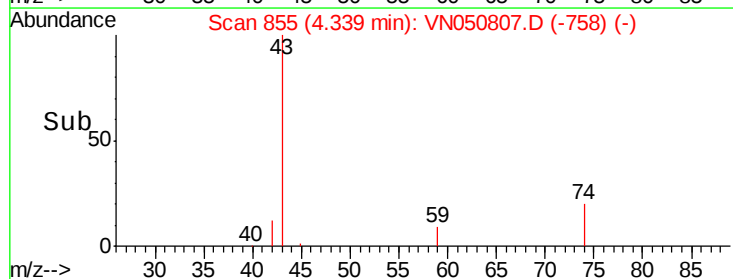
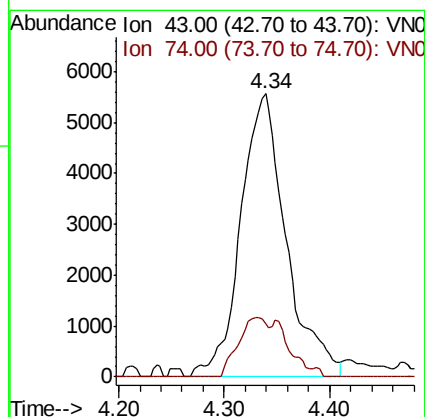
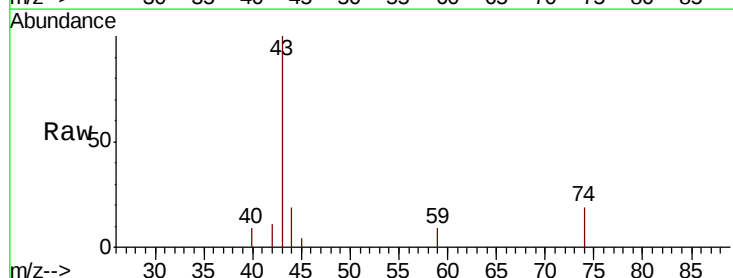
Acq: 22 Aug 2018 2:17

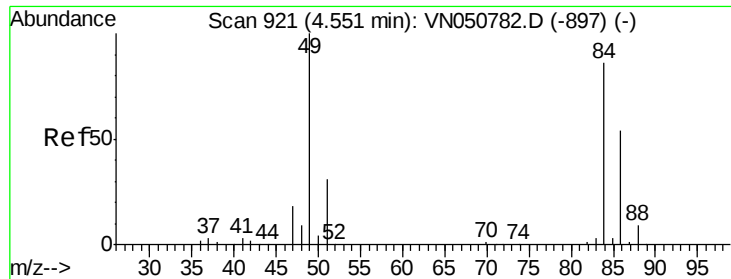
Tgt Ion: 43 Resp: 16715

Ion Ratio Lower Upper

43 100

74 13.5 19.8 29.8#

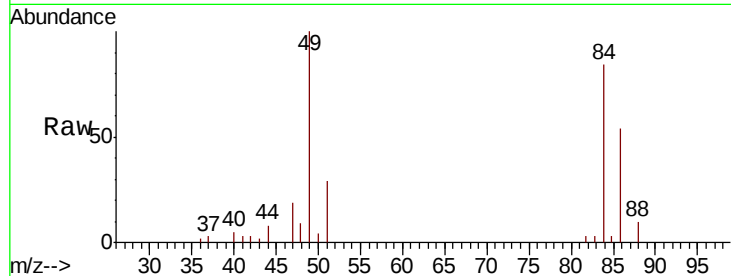




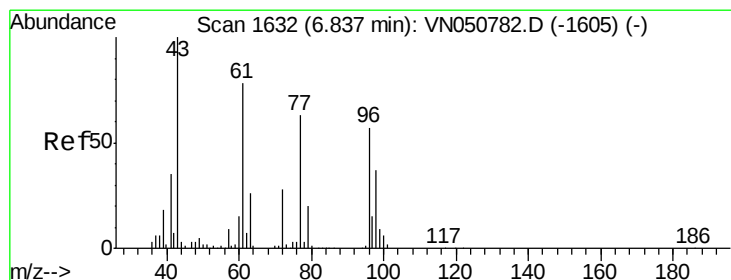
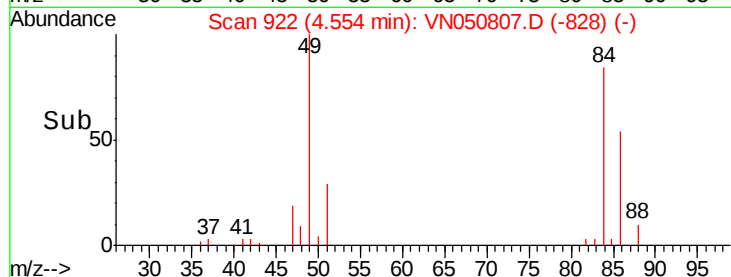
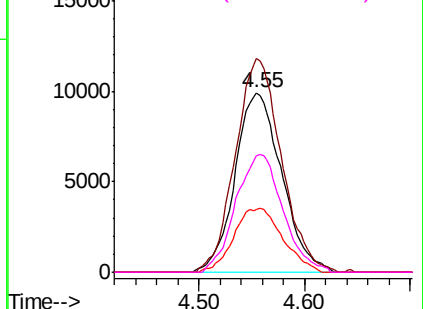
#20
Methvlene Chloride
Concen: 3.681 ug/l
RT: 4.55 min Scan# 922
Delta R.T. 0.00 min
Lab File: VN050807.D
Acq: 22 Aug 2018 2:17

Instrument :
MSVOA_N
ClientSampleId :
PB112227ZHE#13

Tot Ion: 84 Resp: 30504
Ion Ratio Lower Upper
84 100
49 119.0 93.2 139.8
51 34.9 29.0 43.6
86 64.6 49.8 74.8

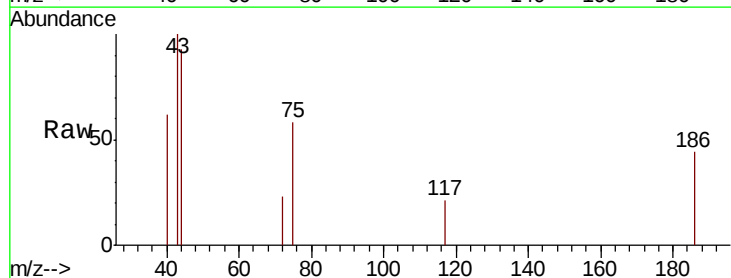


Abundance Ion 83.90 (83.60 to 84.60): VNO
Ion 48.90 (48.60 to 49.60): VNO
Ion 50.90 (50.60 to 51.60): VNO
Ion 85.90 (85.60 to 86.60): VNO

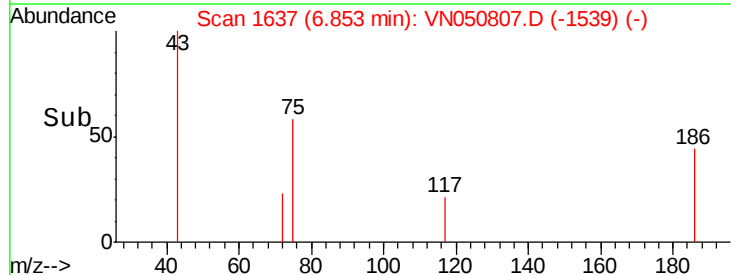
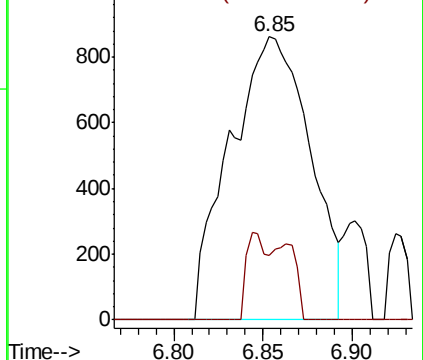


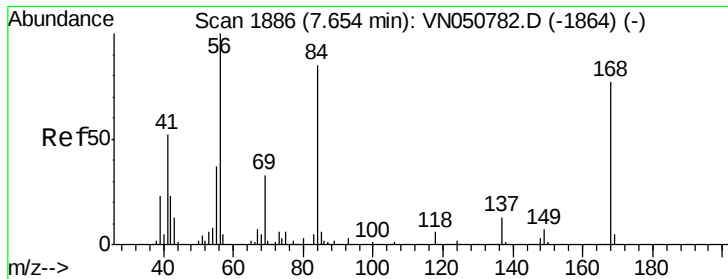
#25
2-Butanone
Concen: 0.913 ug/l
RT: 6.85 min Scan# 1637
Delta R.T. 0.02 min
Lab File: VN050807.D
Acq: 22 Aug 2018 2:17

Tgt Ion: 43 Resp: 2704
Ion Ratio Lower Upper
43 100
72 22.9 22.3 33.5



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

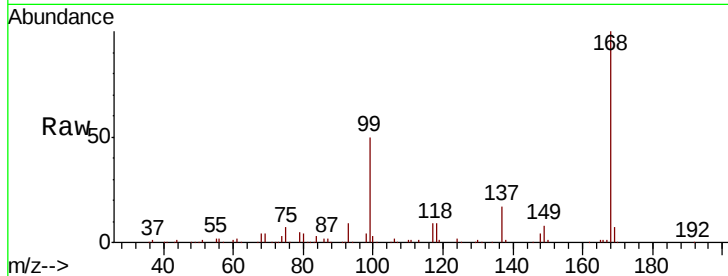




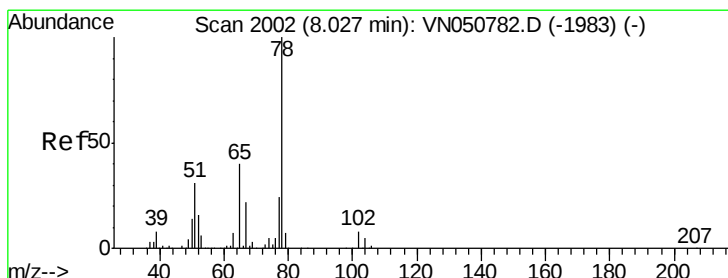
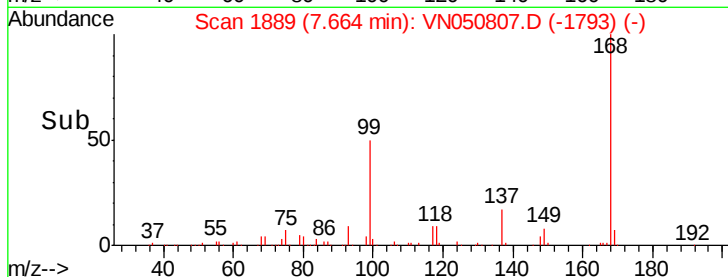
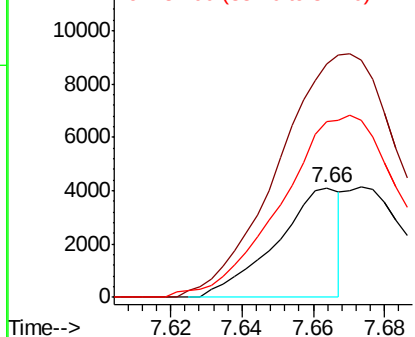
#31
Cyclohexane
Concen: 0.866 ug/l
RT: 7.66 min Scan# 1889
Delta R.T. 0.01 min
Lab File: VN050807.D
Acq: 22 Aug 2018 2:17

Instrument :
MSVOA_N
ClientSampleId :
PB112227ZHE#13

Tot Ion: 56 Resp: 5082
Ion Ratio Lower Upper
56 100
69 207.7 26.2 39.4#
84 154.9 68.3 102.5#

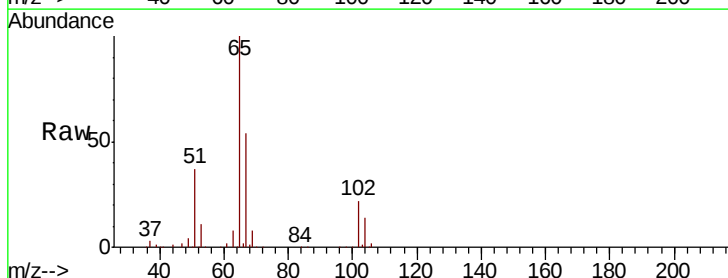


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

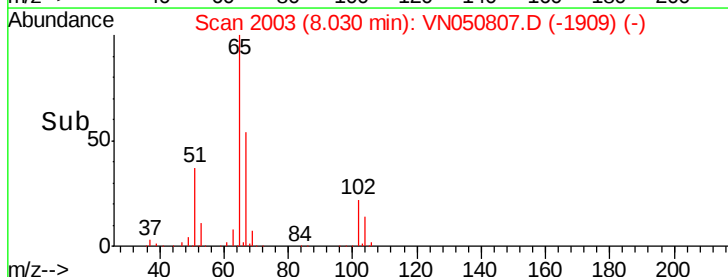
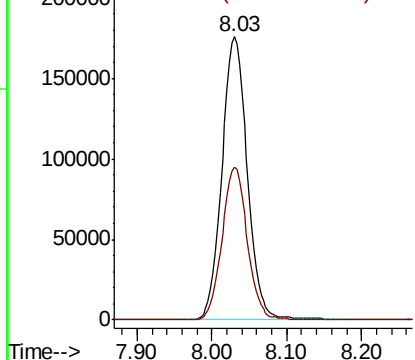


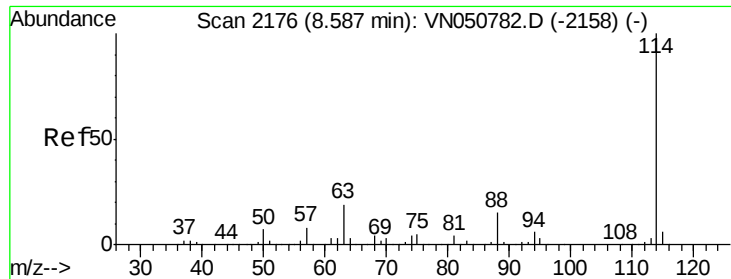
#33
1,2-Dichloroethane-d4
Concen: 56.131 ug/l
RT: 8.03 min Scan# 2003
Delta R.T. 0.00 min
Lab File: VN050807.D
Acq: 22 Aug 2018 2:17

Tgt Ion: 65 Resp: 412666
Ion Ratio Lower Upper
65 100
67 53.7 0.0 110.4



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

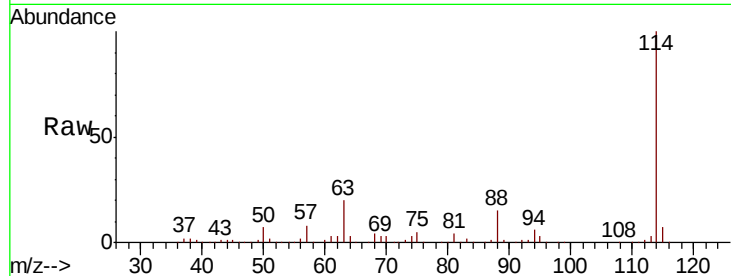




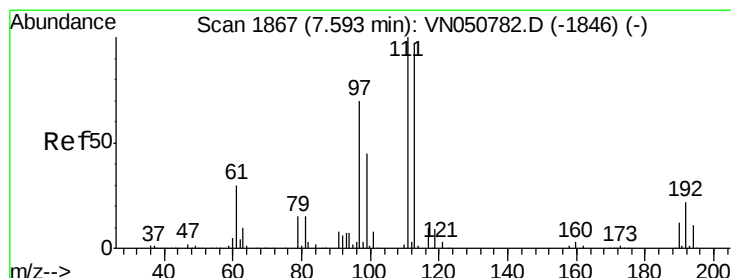
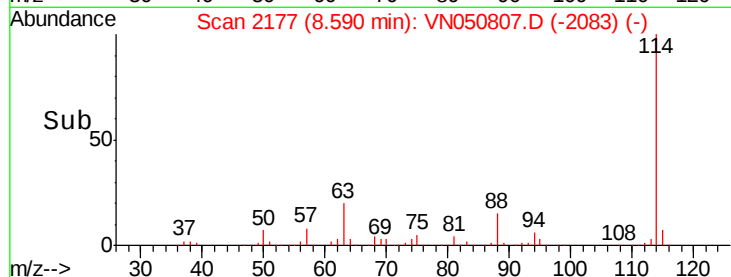
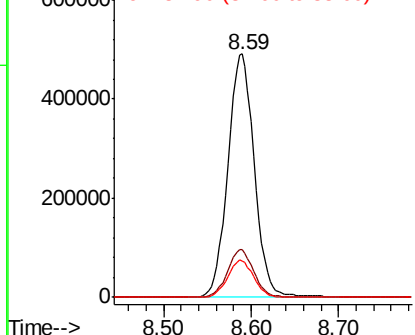
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2177
 Delta R.T. 0.00 min
 Lab File: VN050807.D
 Acq: 22 Aug 2018 2:17

Instrument :
 MSVOA_N
 ClientSampleId :
 PB112227ZHE#13

Tot Ion:114 Resp: 1028929
 Ion Ratio Lower Upper
 114 100
 63 19.5 0.0 38.6
 88 15.1 0.0 30.6

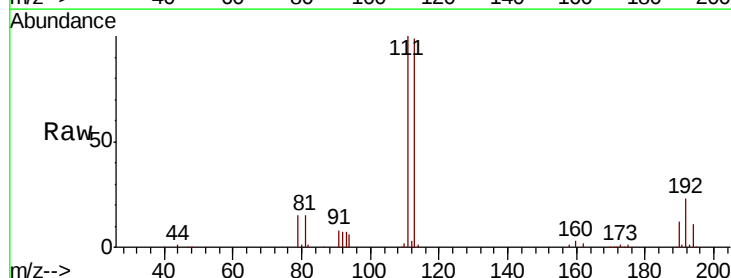


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): V
 Ion 87.90 (87.60 to 88.60): V

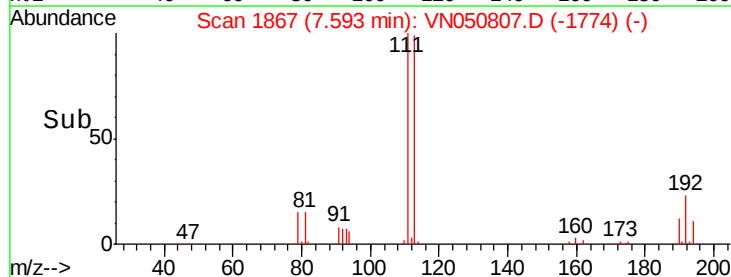
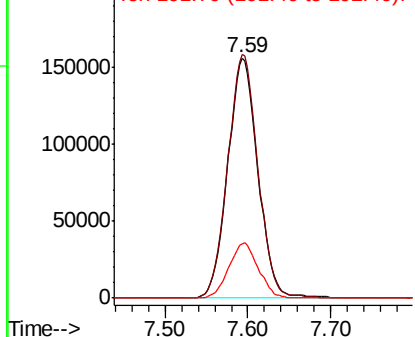


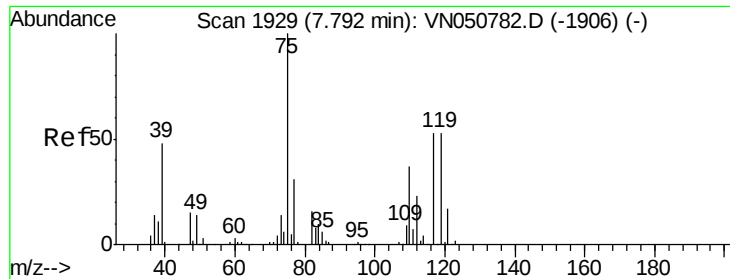
#35
 Dibromofluoromethane
 Concen: 48.073 ug/l
 RT: 7.59 min Scan# 1867
 Delta R.T. -0.00 min
 Lab File: VN050807.D
 Acq: 22 Aug 2018 2:17

Tgt Ion:113 Resp: 393510
 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

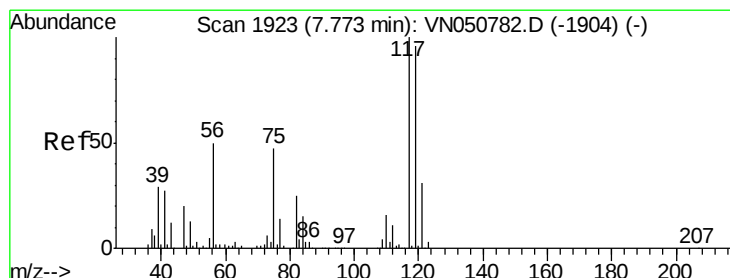
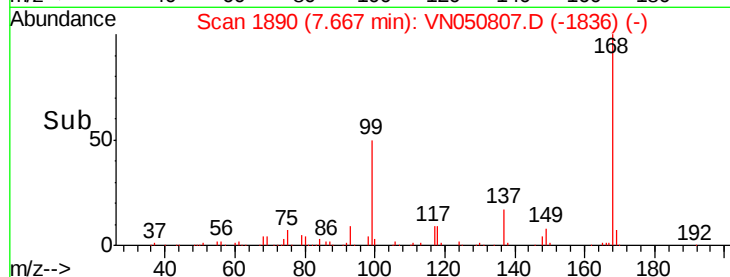
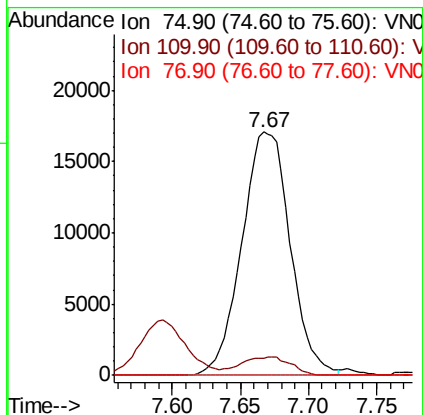
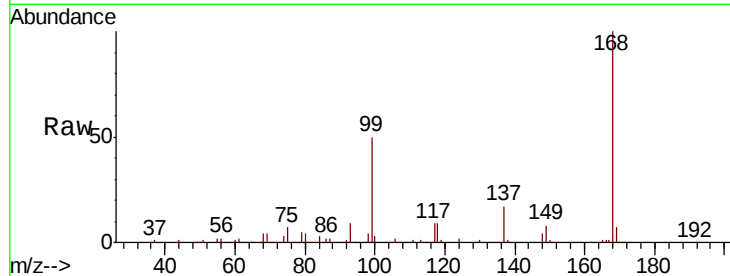




#36
 1,1-Dichloropropene
 Concen: 3.466 ug/l
 RT: 7.67 min Scan# 1890
 Delta R.T. -0.13 min
 Lab File: VN050807.D
 Acq: 22 Aug 2018 2:17

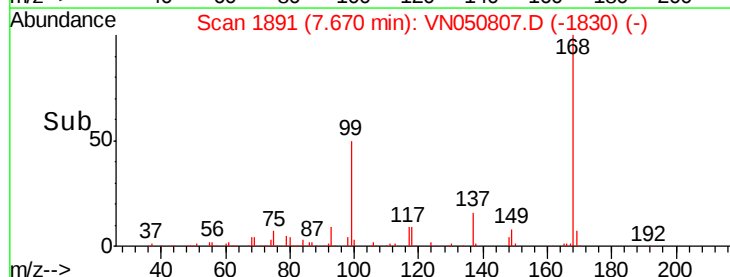
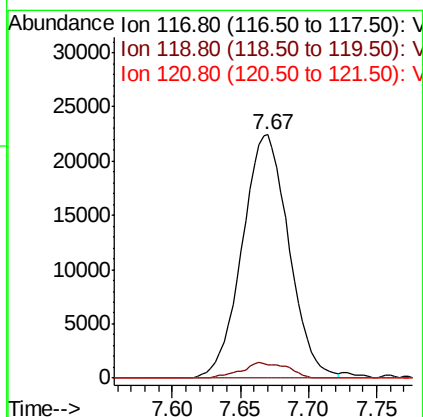
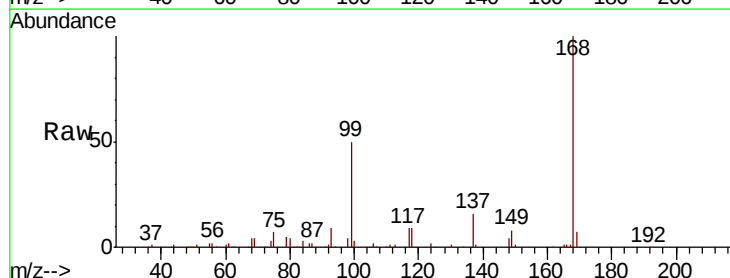
Instrument :
 MSVOA_N
 ClientSampleId :
 PB112227ZHE#13

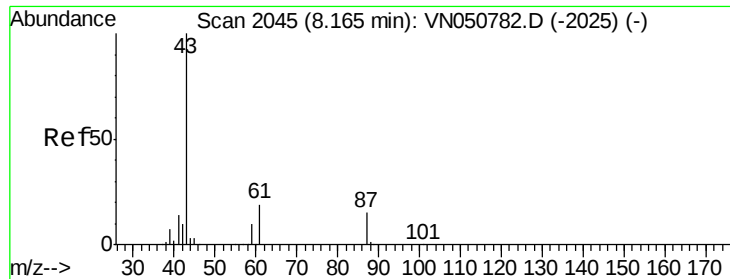
Tot Ion	Ratio	Lower	Upper
75	100		
110	7.7	18.1	54.4#
77	0.0	24.8	37.2#



#38
 Carbon Tetrachloride
 Concen: 4.341 ug/l
 RT: 7.67 min Scan# 1891
 Delta R.T. -0.10 min
 Lab File: VN050807.D
 Acq: 22 Aug 2018 2:17

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.5	76.3	114.5#
121	0.0	24.6	36.8#





#43

Isopropyl Acetate

Concen: 27.061 ug/l

RT: 8.17 min Scan# 2046

Delta R.T. 0.00 min

Lab File: VN050807.D

Acq: 22 Aug 2018 2:17

Instrument :

MSVOA_N

ClientSampleId :

PB112227ZHE#13

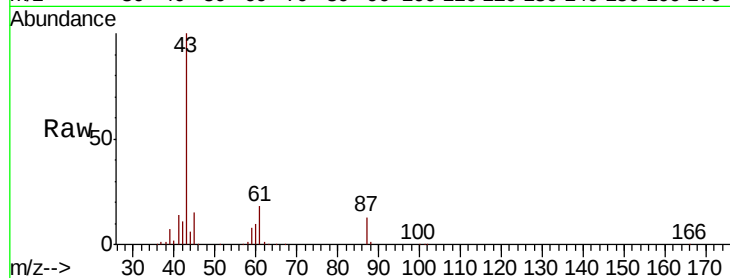
Tot Ion: 43 Resp: 324521

Ion Ratio Lower Upper

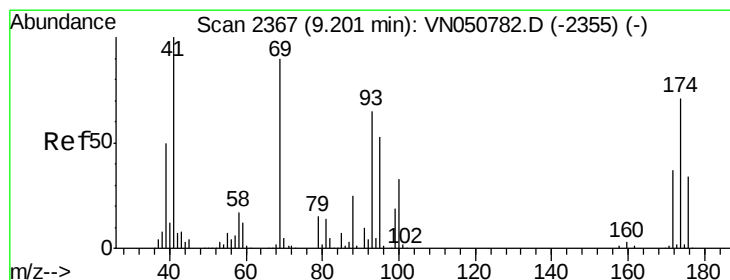
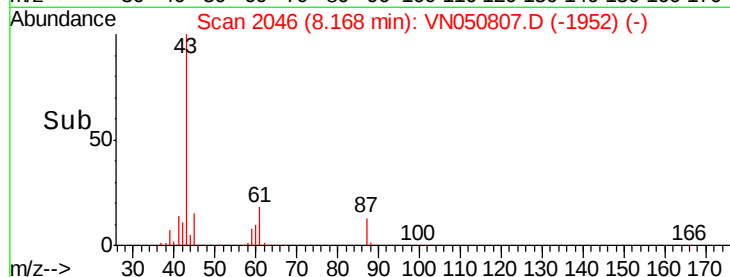
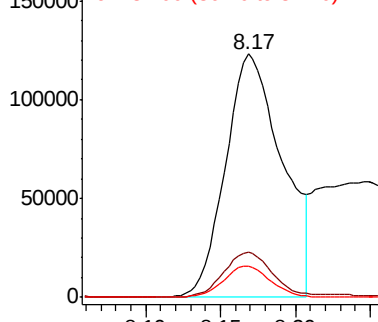
43 100

61 16.1 17.5 26.3#

87 10.6 11.3 16.9#



Abundance Ion 43.00 (42.70 to 43.70): VNO
Ion 61.00 (60.70 to 61.70): VNO
Ion 87.00 (86.70 to 87.70): VNO



#48

Methyl methacrylate

Concen: 1.099 ug/l

RT: 9.18 min Scan# 2361

Delta R.T. -0.02 min

Lab File: VN050807.D

Acq: 22 Aug 2018 2:17

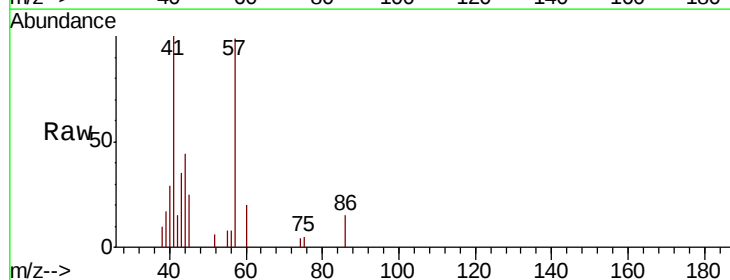
Tgt Ion: 41 Resp: 6718

Ion Ratio Lower Upper

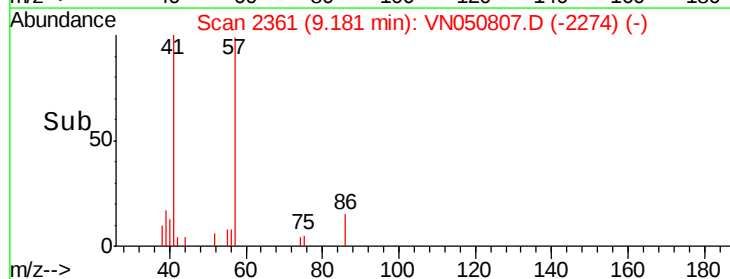
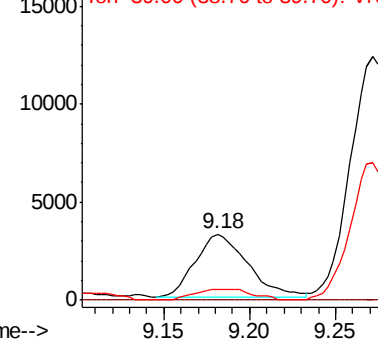
41 100

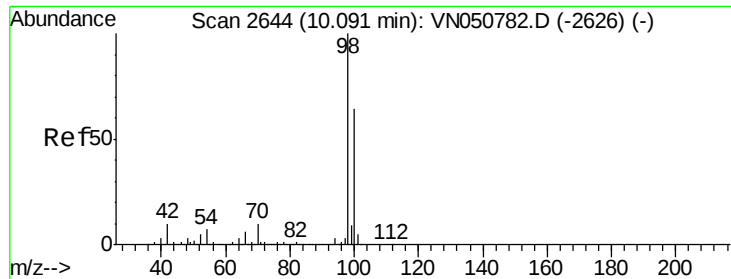
69 0.0 74.7 112.1#

39 19.0 42.2 63.2#



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

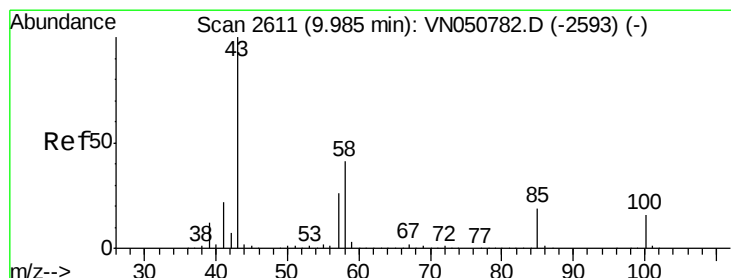
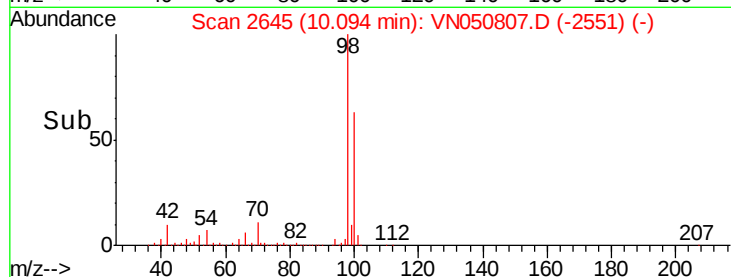
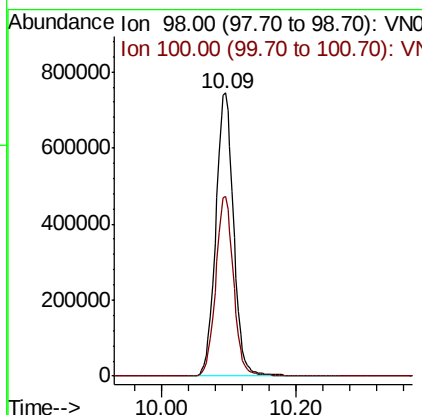
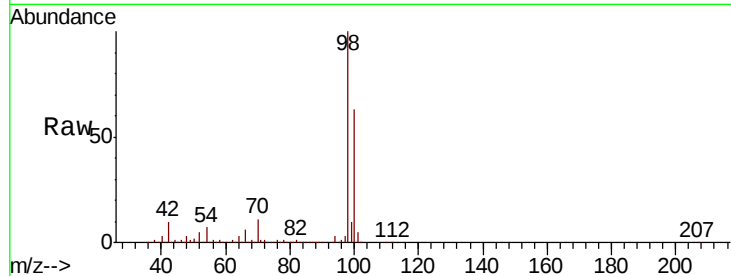




#50
Toluene-d8
Concen: 45.034 ug/l
RT: 10.09 min Scan# 2645
Delta R.T. 0.00 min
Lab File: VN050807.D
Acq: 22 Aug 2018 2:17

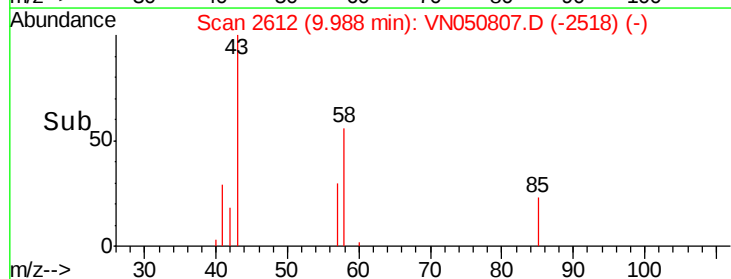
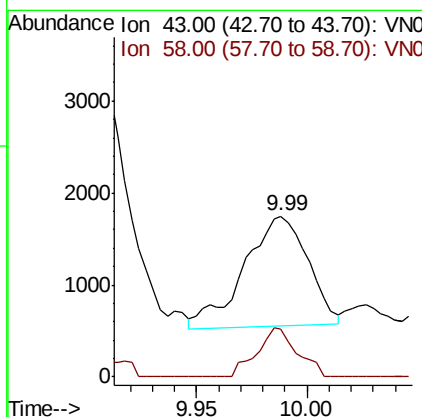
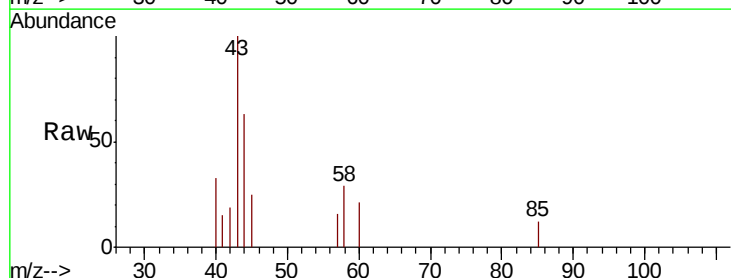
Instrument :
MSVOA_N
ClientSampleId :
PB112227ZHE#13

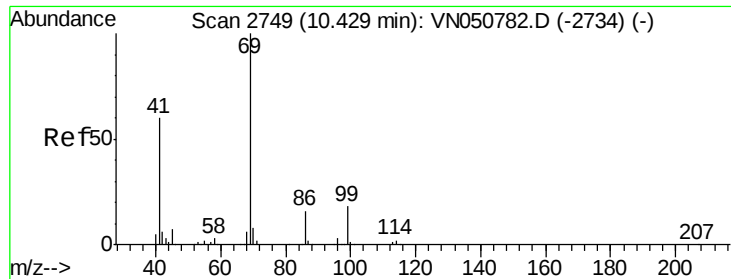
Tot Ion: 98 Resp: 1378225
Ion Ratio Lower Upper
98 100
100 63.5 51.5 77.3



#51
4-Methyl-2-Pentanone
Concen: 0.333 ug/l
RT: 9.99 min Scan# 2612
Delta R.T. 0.00 min
Lab File: VN050807.D
Acq: 22 Aug 2018 2:17

Tgt Ion: 43 Resp: 2382
Ion Ratio Lower Upper
43 100
58 28.3 32.4 48.6#





#56

Ethyl methacrylate

Concen: 2.387 ug/l

RT: 10.63 min Scan# 2813

Delta R.T. 0.21 min

Lab File: VN050807.D

Acq: 22 Aug 2018 2:17

Instrument :

MSVOA_N

ClientSampleId :

PB112227ZHE#13

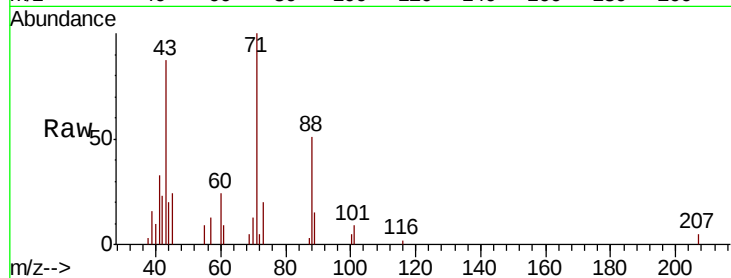
Tot Ion: 69 Resp: 408

Ion Ratio Lower Upper

69 100

41 1103.2 48.3 72.5#

39 492.6 24.0 36.0#

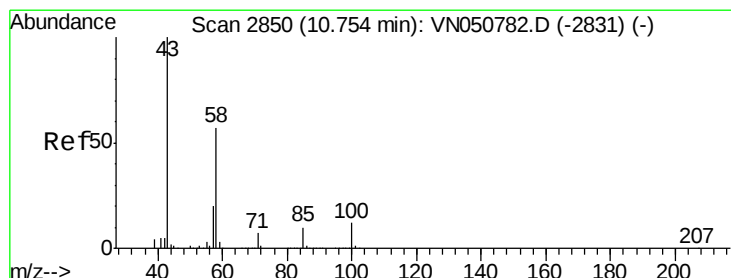
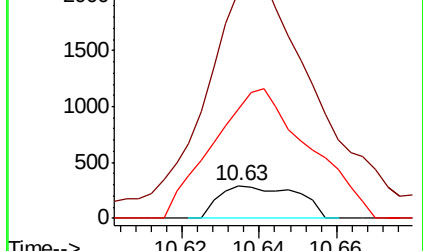
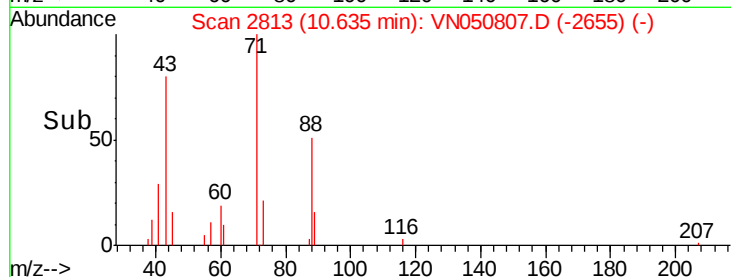


Abundance Ion 69.00 (68.70 to 69.70): VN050807.D (-2655) (-)

Ion 41.00 (40.70 to 41.70): VN050807.D (-2655) (-)

Ion 39.00 (38.70 to 39.70): VN050807.D (-2655) (-)

Time-->



#59

2-Hexanone

Concen: 3.465 ug/l

RT: 10.77 min Scan# 2854

Delta R.T. 0.01 min

Lab File: VN050807.D

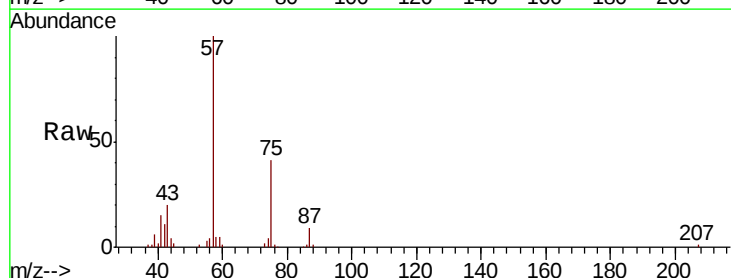
Acq: 22 Aug 2018 2:17

Tgt Ion: 43 Resp: 16506

Ion Ratio Lower Upper

43 100

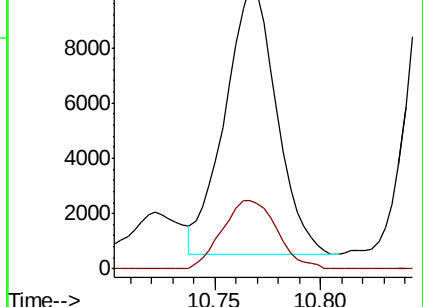
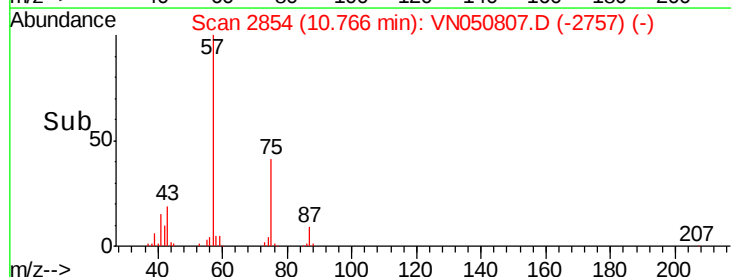
58 27.0 28.3 85.0#

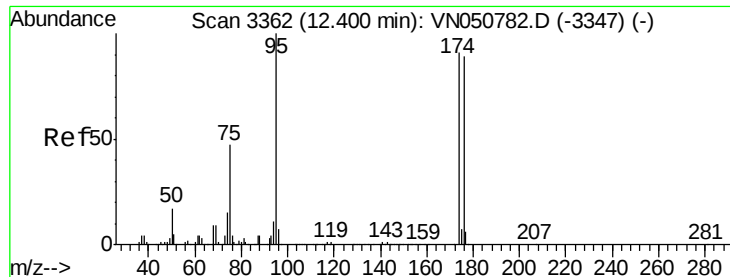


Abundance Ion 43.00 (42.70 to 43.70): VN050807.D (-2757) (-)

Ion 58.00 (57.70 to 58.70): VN050807.D (-2757) (-)

Time-->





#62

4-Bromofluorobenzene

Concen: 37.076 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.00 min

Lab File: VN050807.D

Acq: 22 Aug 2018 2:17

Instrument :

MSVOA_N

ClientSampleId :

PB112227ZHE#13

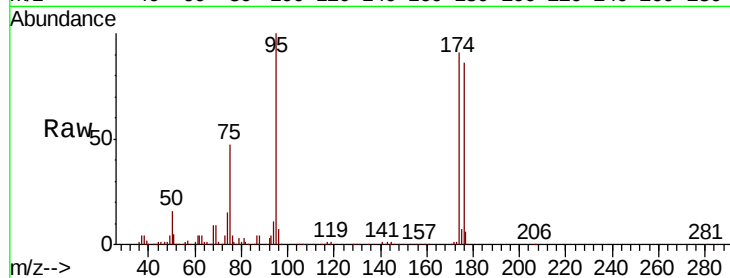
Tot Ion: 95 Resp: 377057

Ion Ratio Lower Upper

95 100

174 91.4 0.0 183.0

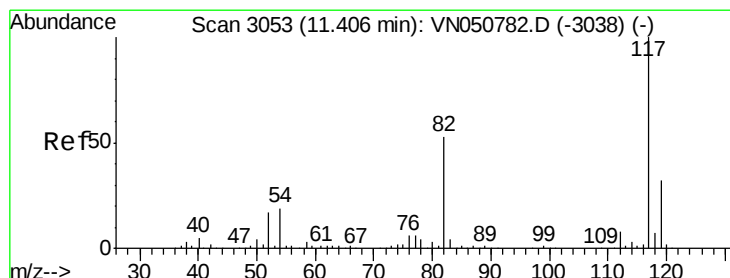
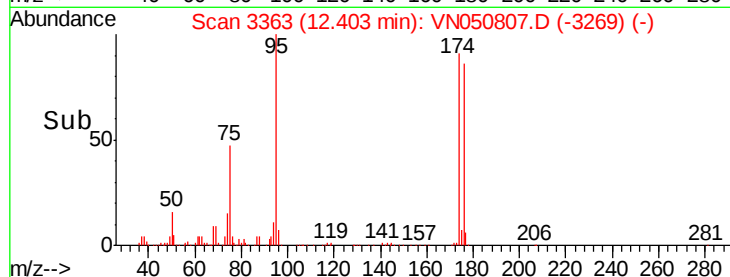
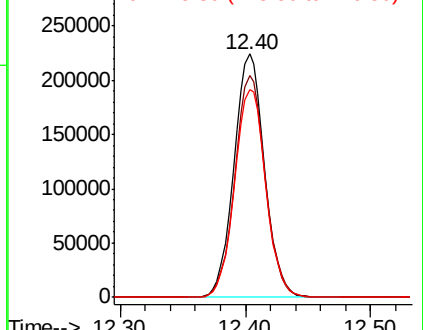
176 87.2 0.0 178.8



Abundance Ion 94.90 (94.60 to 95.60): VN0

Ion 173.80 (173.50 to 174.50): VN0

Ion 175.80 (175.50 to 176.50): VN0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 3054

Delta R.T. 0.00 min

Lab File: VN050807.D

Acq: 22 Aug 2018 2:17

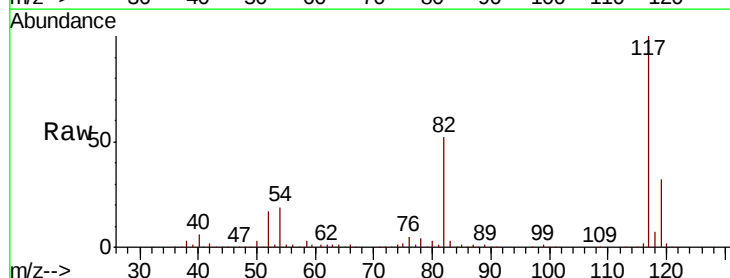
Tgt Ion: 117 Resp: 868737

Ion Ratio Lower Upper

117 100

82 52.5 42.6 64.0

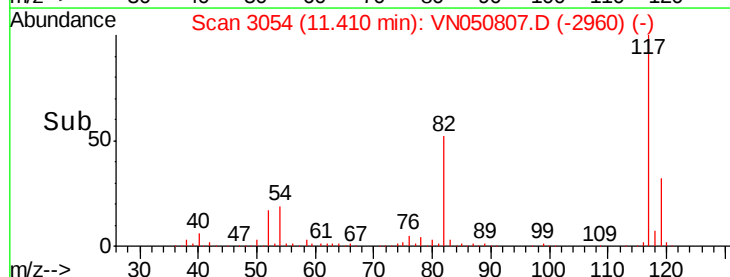
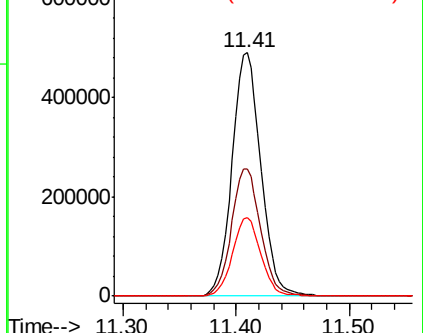
119 32.4 25.8 38.6

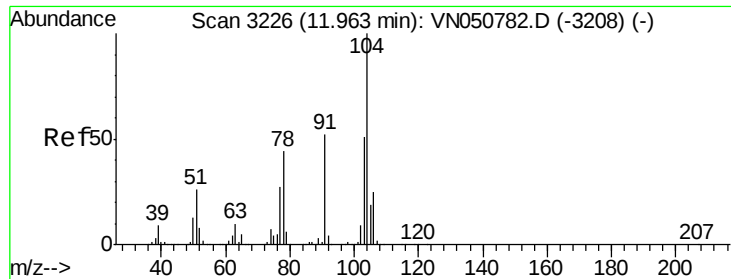


Abundance Ion 116.90 (116.60 to 117.60): VN0

Ion 82.00 (81.70 to 82.70): VN0

Ion 118.90 (118.60 to 119.60): VN0





#70

Stvrene

Concen: 1.273 ug/l

RT: 11.97 min Scan# 3228

Delta R.T. 0.01 min

Lab File: VN050807.D

Acq: 22 Aug 2018 2:17

Instrument :

MSVOA_N

ClientSampleId :

PB112227ZHE#13

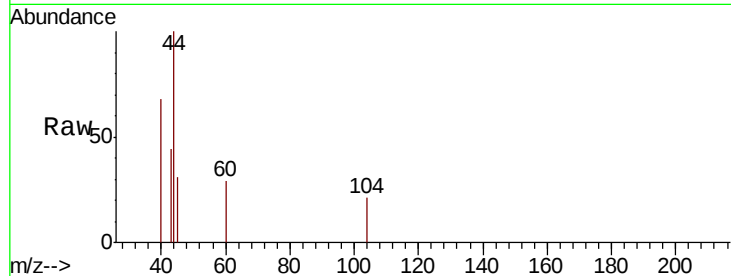
Tot Ion:104 Resp: 64

Ion Ratio Lower Upper

104 100

78 0.0 38.2 57.4#

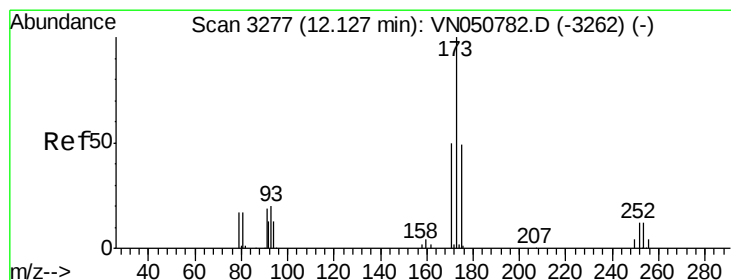
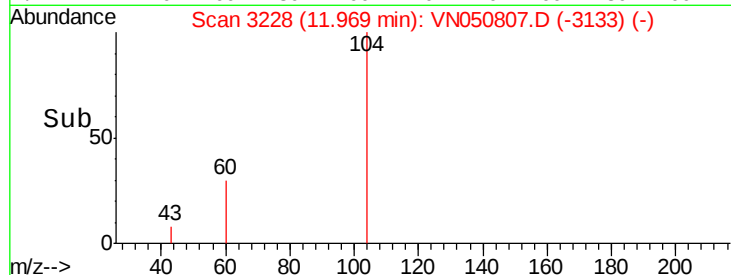
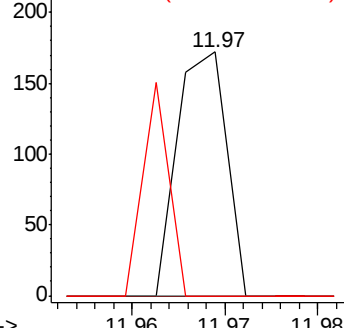
103 45.3 44.4 66.6



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



#71

Bromoform

Concen: 0.474 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.28 min

Lab File: VN050807.D

Acq: 22 Aug 2018 2:17

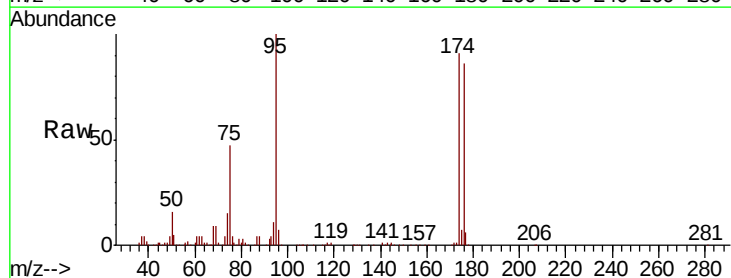
Tgt Ion:173 Resp: 2706

Ion Ratio Lower Upper

173 100

175 772.0 24.4 73.4#

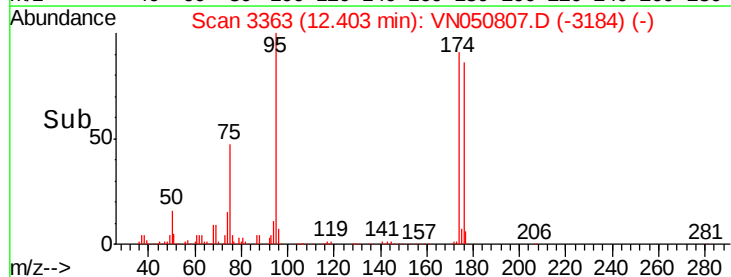
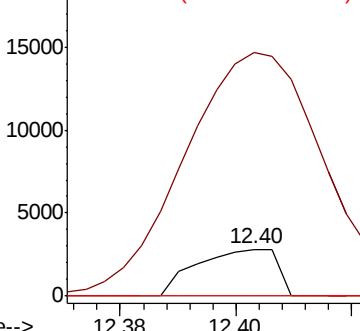
254 0.0 0.1 0.1#

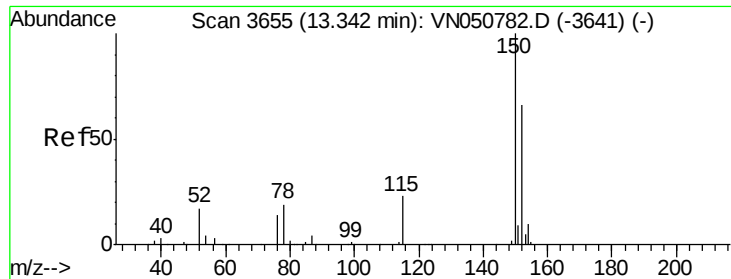


Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3656

Delta R.T. 0.00 min

Lab File: VN050807.D

Acq: 22 Aug 2018 2:17

Instrument :

MSVOA_N

ClientSampleId :

PB112227ZHE#13

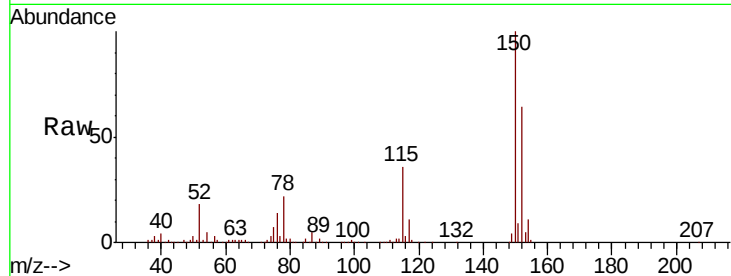
Tot Ion:152 Resp: 303452

Ion Ratio Lower Upper

152 100

115 56.6 27.8 83.4

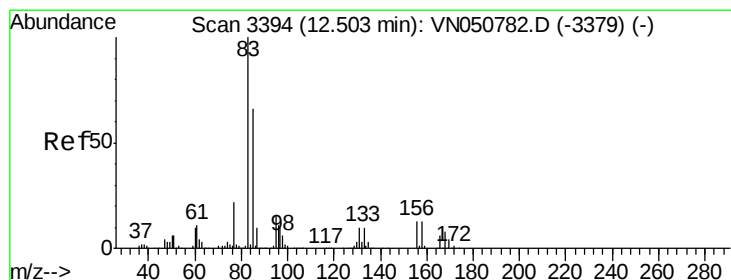
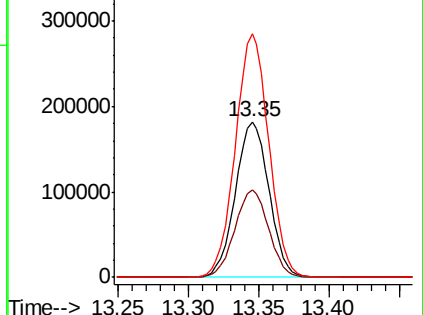
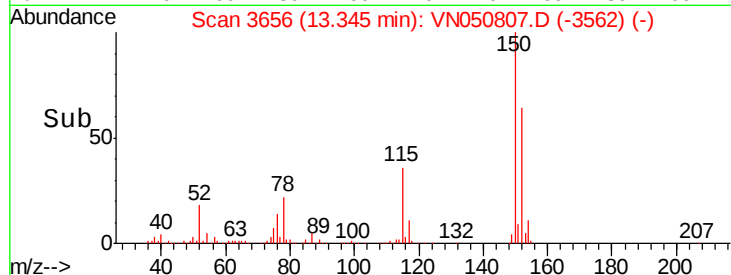
150 156.0 0.0 351.4



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: VN050807.D

Acq: 22 Aug 2018 2:17

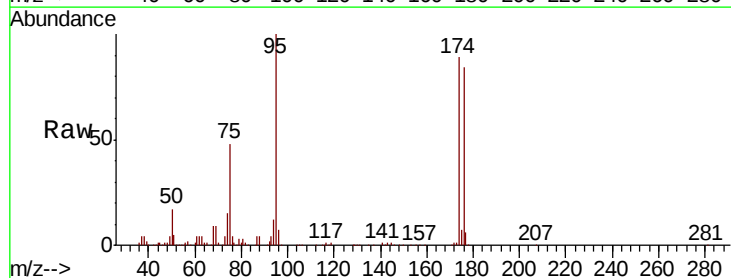
Tgt Ion: 83 Resp: 132

Ion Ratio Lower Upper

83 100

131 353.0 5.3 15.9#

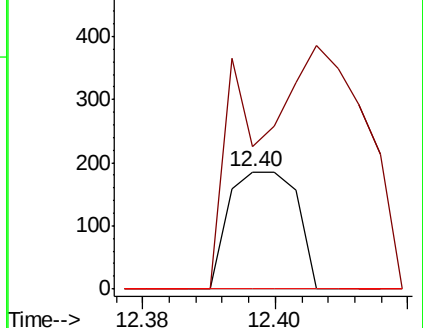
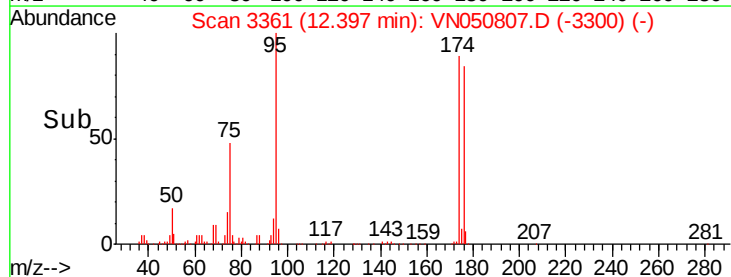
85 0.0 31.9 95.7#

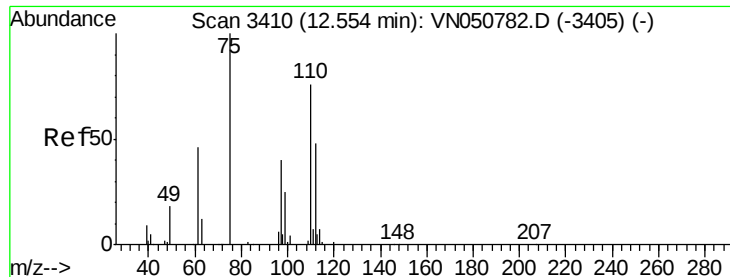


Abundance Ion 82.90 (82.60 to 83.60): VNO

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): VNO





#76

1,2,3-Trichloropropane

Concen: 33.500 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.15 min

Lab File: VN050807.D

Acq: 22 Aug 2018 2:17

Instrument :

MSVOA_N

ClientSampleId :

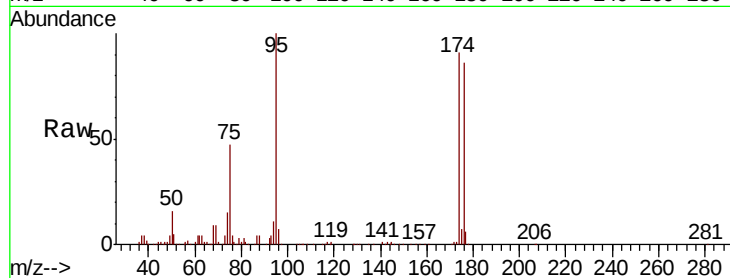
PB112227ZHE#13

Tot Ion: 75 Resp: 178052

Ion Ratio Lower Upper

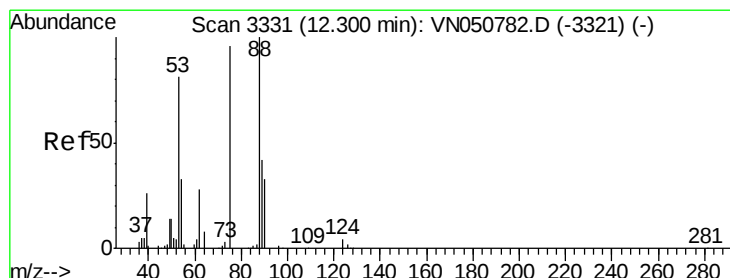
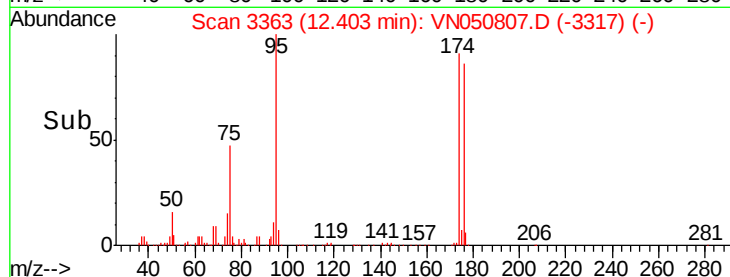
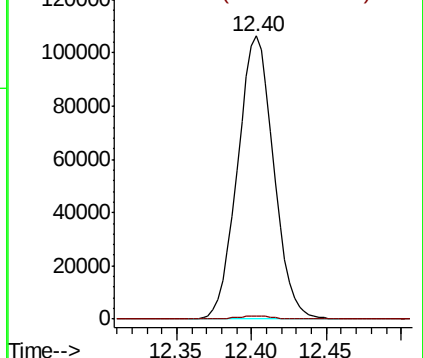
75 100

77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0



#81

trans-1,4-Dichloro-2-butene

Concen: 113.250 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.10 min

Lab File: VN050807.D

Acq: 22 Aug 2018 2:17

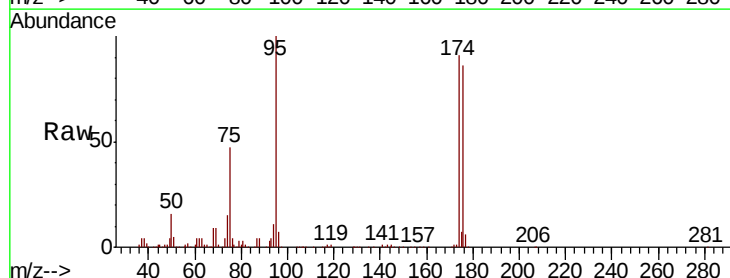
Tgt Ion: 75 Resp: 178052

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

