

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN082118\
 Data File : VN050803.D
 Acq On : 22 Aug 2018 00:39
 Operator : MD\SY
 Sample : PB112227ZHE#09
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 34 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB112227ZHE#09

Quant Time: Aug 22 06:46:03 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	623699	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1046901	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	886027	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	274310	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	422201	56.23	ug/l	0.00
Spiked Amount			Recovery	=	112.46%	
35) Dibromofluoromethane	7.59	113	393738	47.27	ug/l	0.00
Spiked Amount			Recovery	=	94.54%	
50) Toluene-d8	10.09	98	1431910	45.98	ug/l	0.00
Spiked Amount			Recovery	=	91.96%	
62) 4-Bromofluorobenzene	12.40	95	367053	35.47	ug/l	0.00
Spiked Amount			Recovery	=	70.94%	

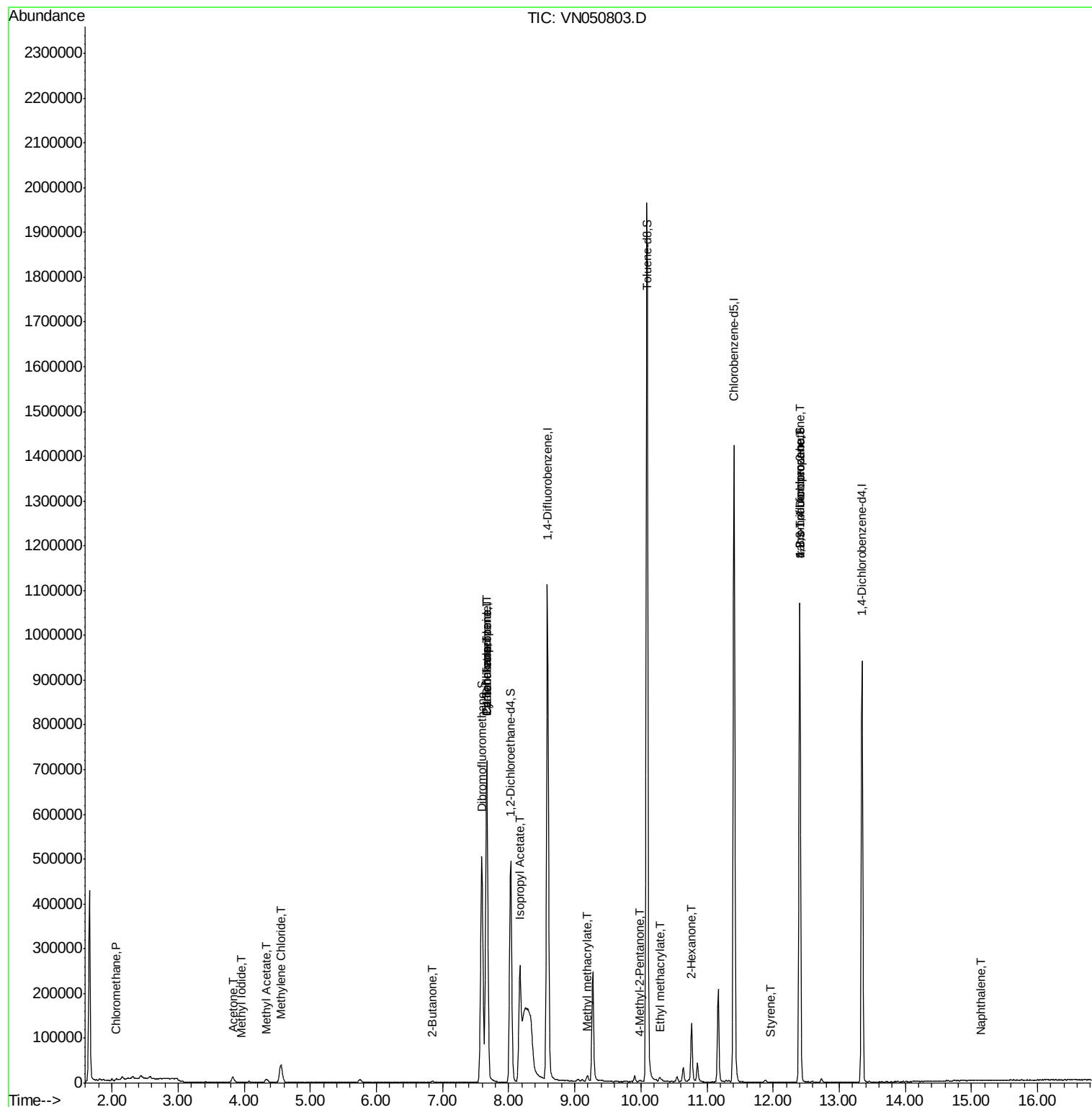
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.06	50	2780	0.270	ug/l	97
5) Bromomethane	2.57	94	3042	Below Cal		99
10) Methyl Iodide	3.96	142	914	6.457	ug/l #	69
16) Acetone	3.82	43	21961	5.441	ug/l	96
18) Methyl Acetate	4.34	43	14668	2.069	ug/l	96
20) Methylene Chloride	4.56	84	32242	3.810	ug/l	98
25) 2-Butanone	6.84	43	1092	0.361	ug/l	100
31) Cyclohexane	7.66	56	10977	1.318	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	44039	3.565	ug/l #	48
38) Carbon Tetrachloride	7.67	117	56037	4.487	ug/l #	17
43) Isopropyl Acetate	8.17	43	333984	27.372	ug/l #	89
48) Methyl methacrylate	9.18	41	8094	1.302	ug/l #	21
51) 4-Methyl-2-Pentanone	9.99	43	2454	0.337	ug/l	89
56) Ethyl methacrylate	10.27	69	66	2.356	ug/l #	1
59) 2-Hexanone	10.76	43	18394	3.795	ug/l #	59
70) Styrene	11.96	104	233	1.279	ug/l #	80
75) 1,1,2,2-Tetrachloroethane	12.39	83	170	Below Cal	#	1
76) 1,2,3-Trichloropropane	12.40	75	176103	36.653	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	176103	123.910	ug/l #	15
95) Naphthalene	15.13	128	188	5.415	ug/l #	69

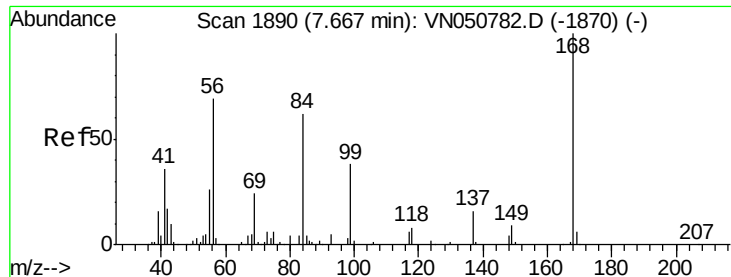
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN050803.D

Acq: 22 Aug 2018 00:39

Instrument :

MSVOA_N

ClientSampleId :

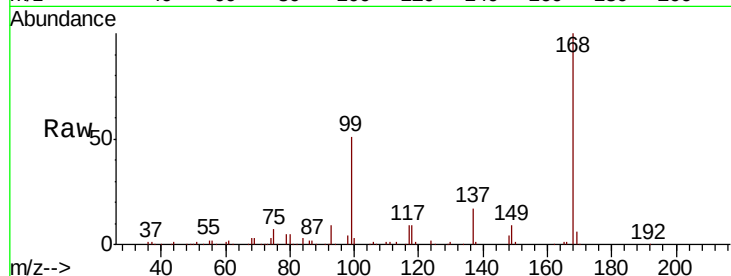
PB112227ZHE#09

Tot Ion:168 Resp: 623699

Ion Ratio Lower Upper

168 100

99 51.1 39.6 59.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

7.67

250000

200000

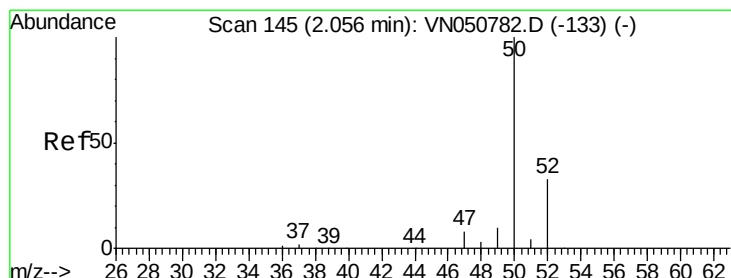
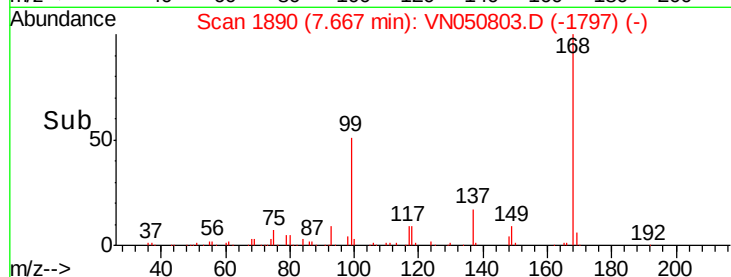
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 0.270 ug/l

RT: 2.06 min Scan# 145

Delta R.T. 0.00 min

Lab File: VN050803.D

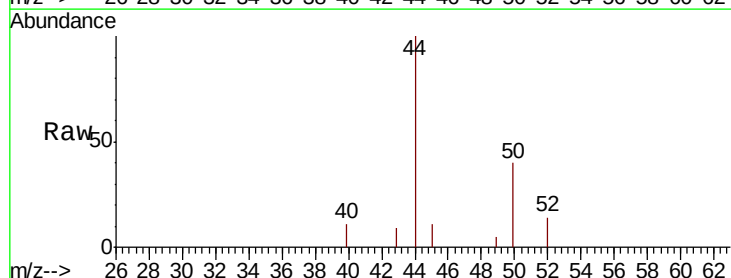
Acq: 22 Aug 2018 00:39

Tgt Ion: 50 Resp: 2780

Ion Ratio Lower Upper

50 100

52 34.3 26.3 39.5



Abundance Ion 49.90 (49.60 to 50.60): VN0

Ion 51.90 (51.60 to 52.60): VN0

2.06

2000

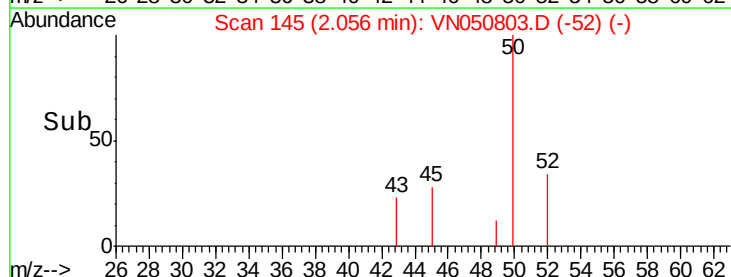
1500

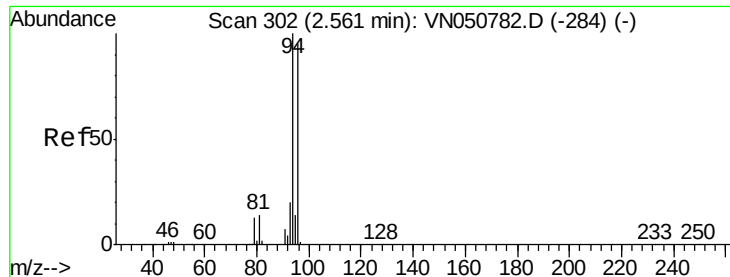
1000

500

0

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 2.57 min Scan# 305

Delta R.T. 0.01 min

Lab File: VN050803.D

Acq: 22 Aug 2018 00:39

Instrument :

MSVOA_N

ClientSampleId :

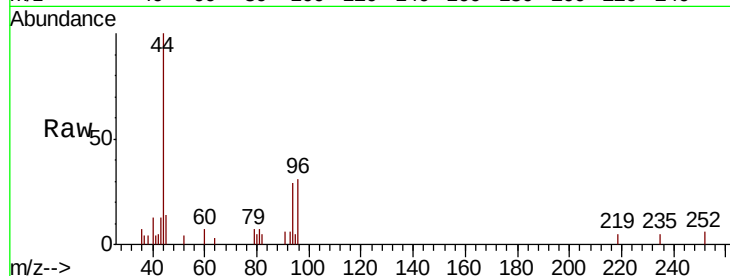
PB112227ZHE#09

Tot Ion: 94 Resp: 3042

Ion Ratio Lower Upper

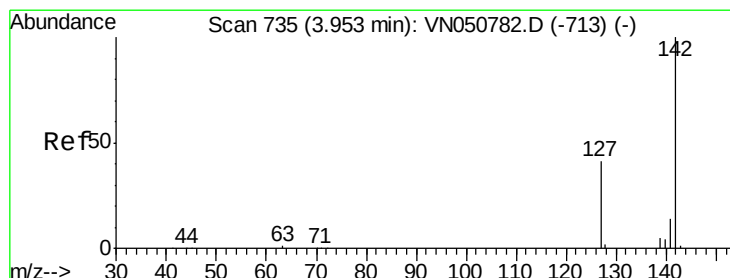
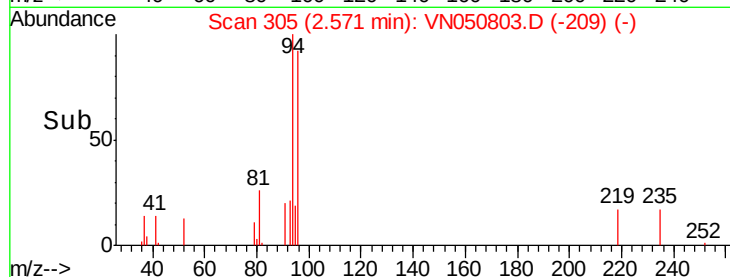
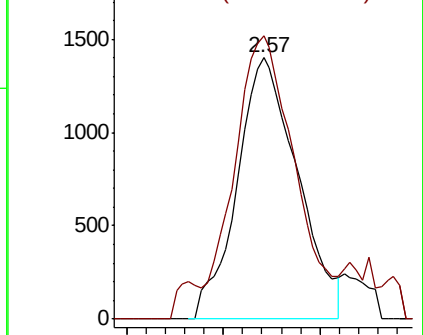
94 100

96 94.0 76.2 114.2



Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0



#10

Methyl Iodide

Concen: 6.457 ug/l

RT: 3.96 min Scan# 738

Delta R.T. 0.01 min

Lab File: VN050803.D

Acq: 22 Aug 2018 00:39

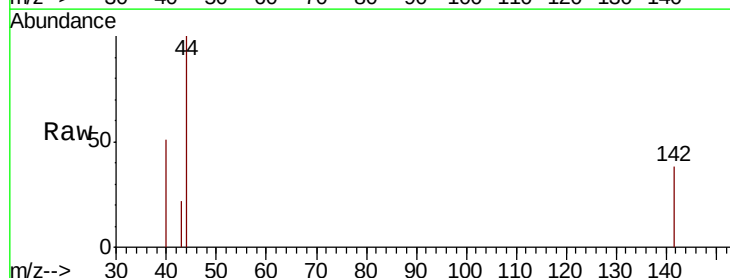
Tgt Ion: 142 Resp: 914

Ion Ratio Lower Upper

142 100

127 21.4 31.7 47.5#

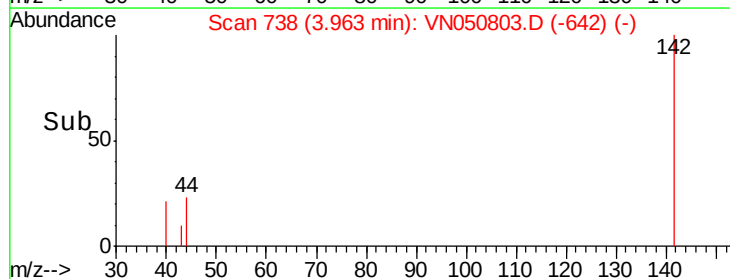
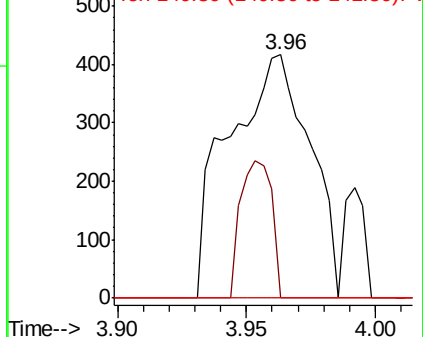
141 0.0 11.4 17.0#

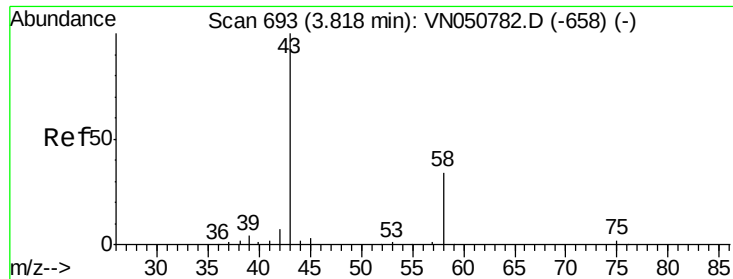


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

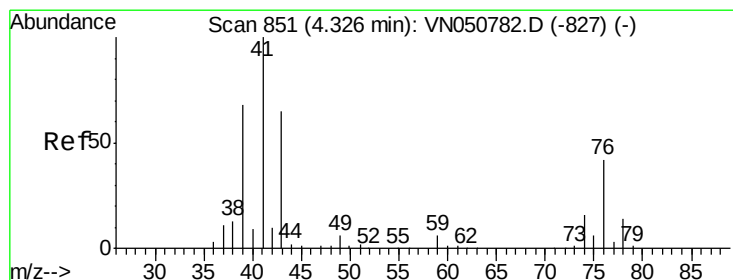
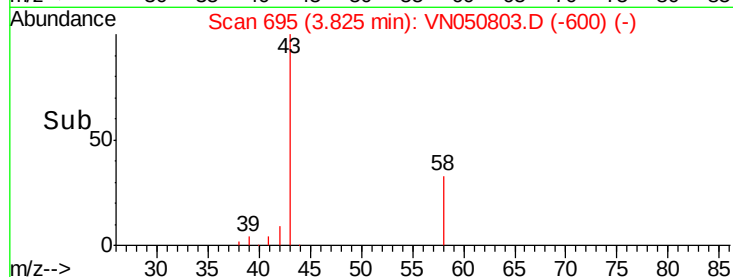
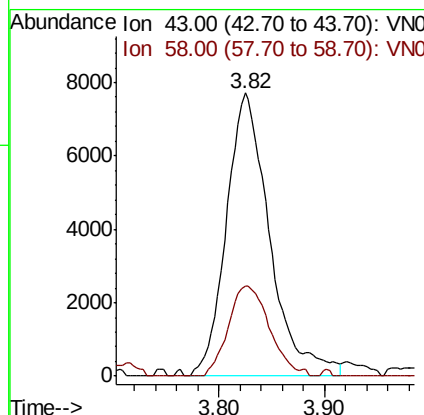
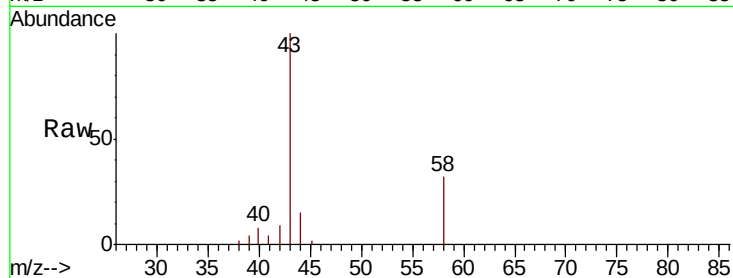




#16
 Acetone
 Concen: 5.441 ug/l
 RT: 3.82 min Scan# 695
 Delta R.T. 0.01 min
 Lab File: VN050803.D
 Acq: 22 Aug 2018 00:39

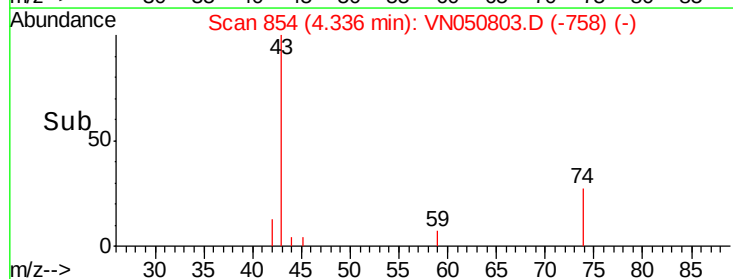
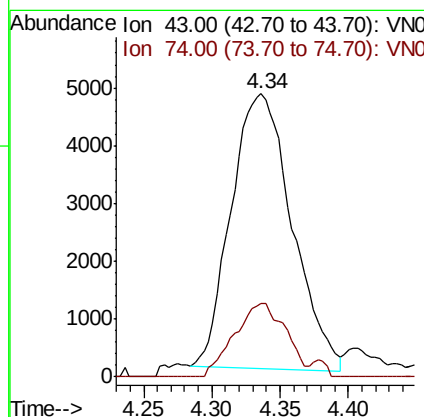
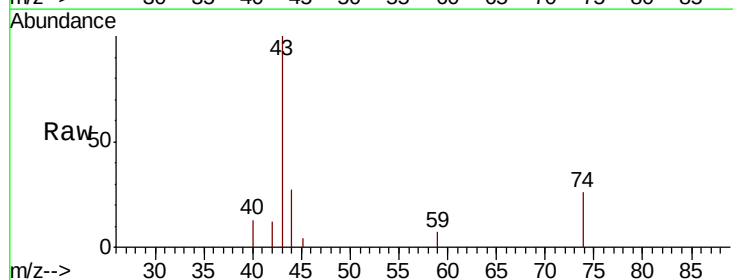
Instrument :
 MSVOA_N
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 PB112227ZHE#09

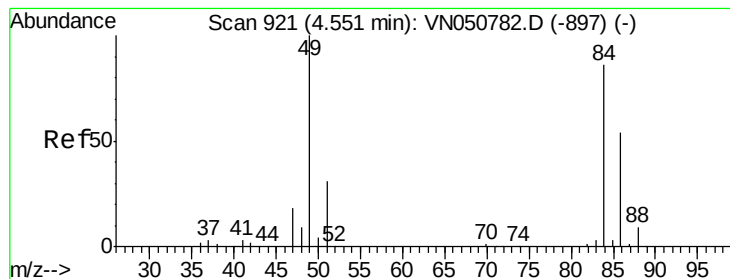
Tot Ion: 43 Resp: 21961
 Ion Ratio Lower Upper
 43 100
 58 31.8 27.2 40.8



#18
 Methyl Acetate
 Concen: 2.069 ug/l
 RT: 4.34 min Scan# 854
 Delta R.T. 0.01 min
 Lab File: VN050803.D
 Acq: 22 Aug 2018 00:39

Tgt Ion: 43 Resp: 14668
 Ion Ratio Lower Upper
 43 100
 74 22.7 19.8 29.8





#20

Methvlene Chloride

Concen: 3.810 ug/l

RT: 4.56 min Scan# 923

Delta R.T. 0.01 min

Lab File: VN050803.D

Acq: 22 Aug 2018 00:39

Instrument :

MSVOA_N

ClientSampleId :

PB112227ZHE#09

Tot Ion: 84 Resp: 32242

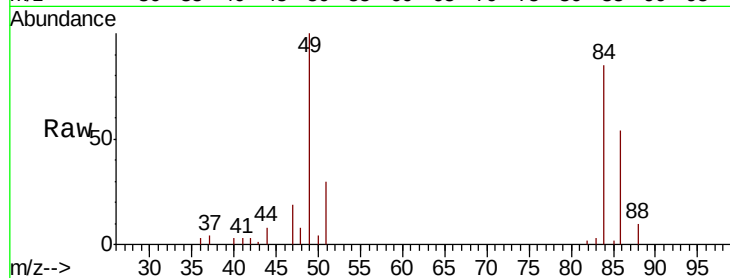
Ion Ratio Lower Upper

84 100

49 118.2 93.2 139.8

51 35.2 29.0 43.6

86 64.3 49.8 74.8

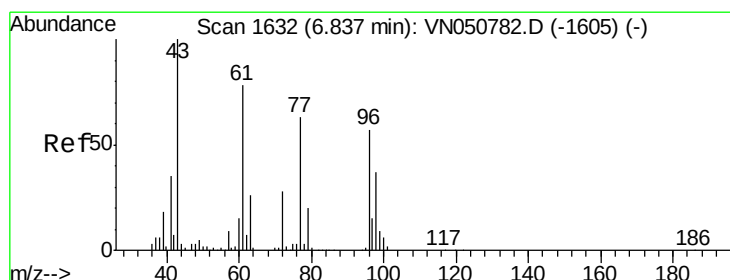
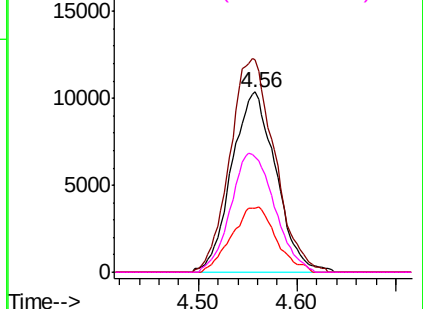
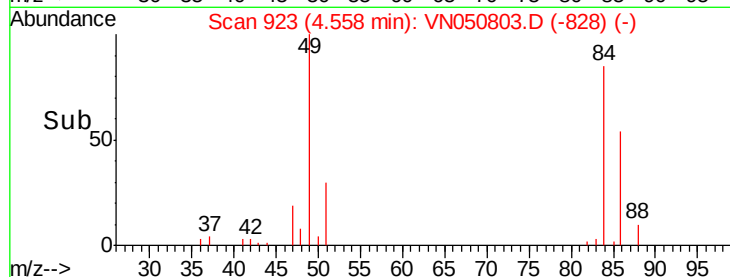


Abundance Ion 83.90 (83.60 to 84.60): VNO

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: 0.361 ug/l

RT: 6.84 min Scan# 1632

Delta R.T. 0.00 min

Lab File: VN050803.D

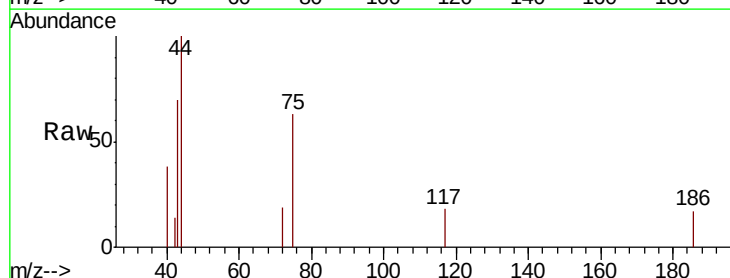
Acq: 22 Aug 2018 00:39

Tgt Ion: 43 Resp: 1092

Ion Ratio Lower Upper

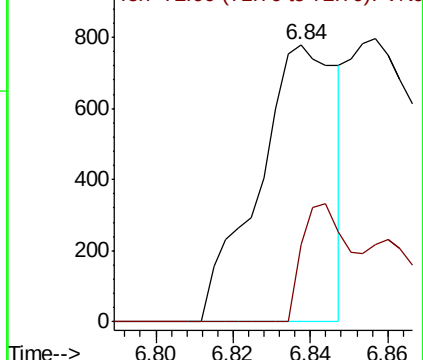
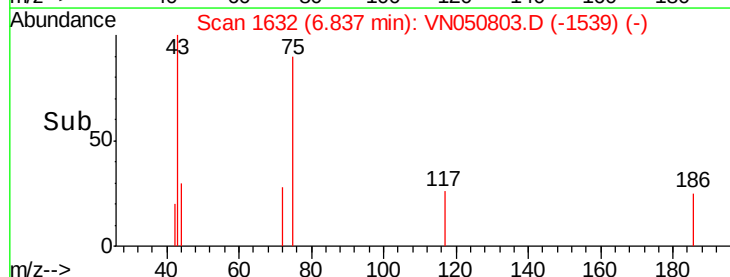
43 100

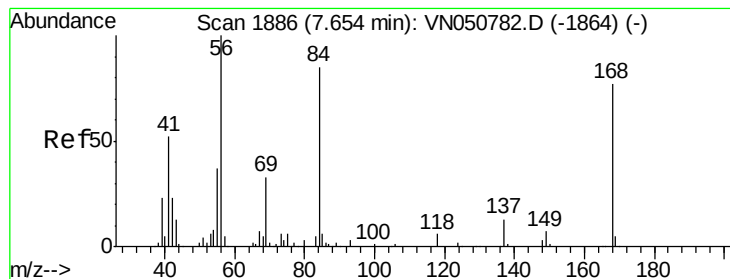
72 27.9 22.3 33.5



Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 72.00 (71.70 to 72.70): VNO





#31

Cyclohexane

Concen: 1.318 ug/l

RT: 7.66 min Scan# 1889

Delta R.T. 0.01 min

Lab File: VN050803.D

Acq: 22 Aug 2018 00:39

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ClientSampleId :

PB112227ZHE#09

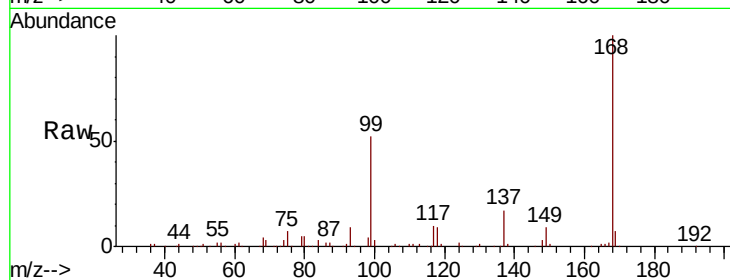
Tot Ion: 56 Resp: 10977

Ion Ratio Lower Upper

56 100

69 196.5 26.2 39.4#

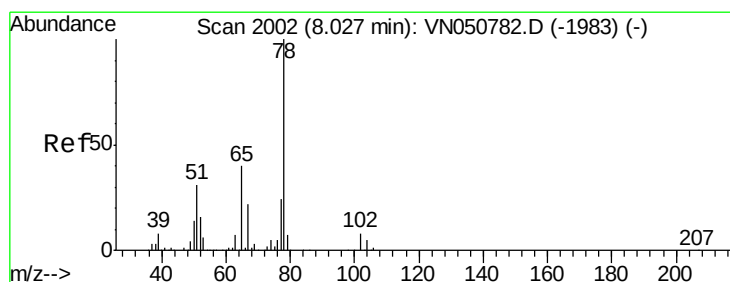
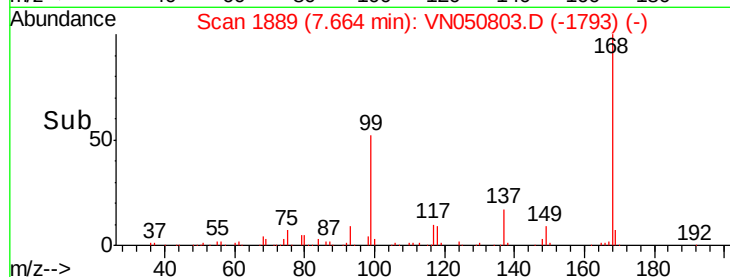
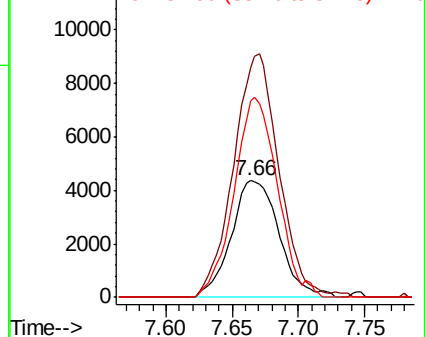
84 167.8 68.3 102.5#



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: 56.230 ug/l

RT: 8.03 min Scan# 2003

Delta R.T. 0.00 min

Lab File: VN050803.D

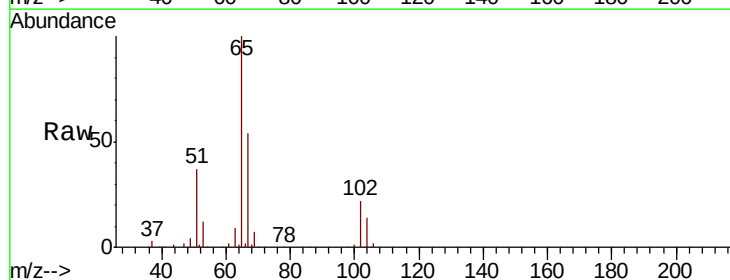
Acq: 22 Aug 2018 00:39

Tgt Ion: 65 Resp: 422201

Ion Ratio Lower Upper

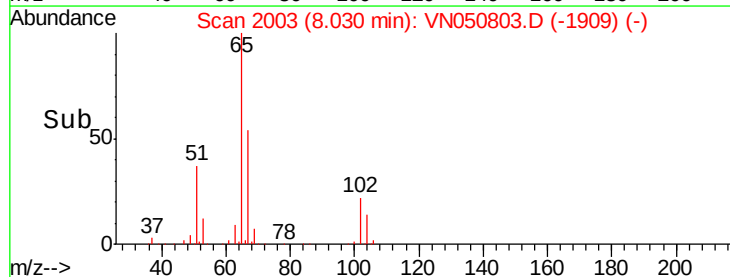
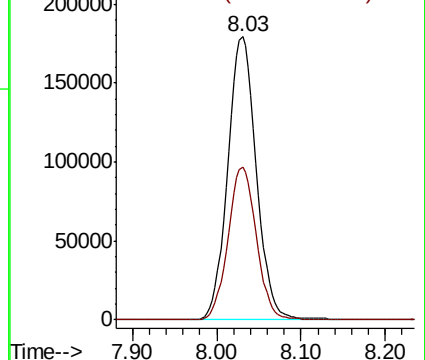
65 100

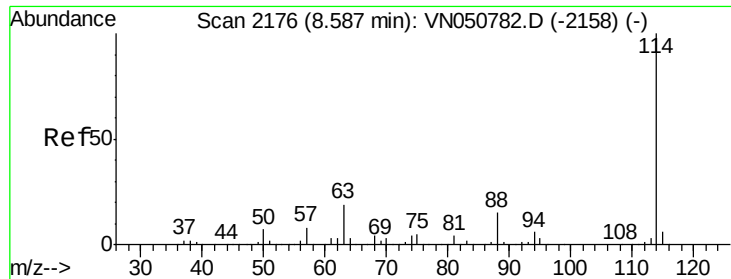
67 53.5 0.0 110.4



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

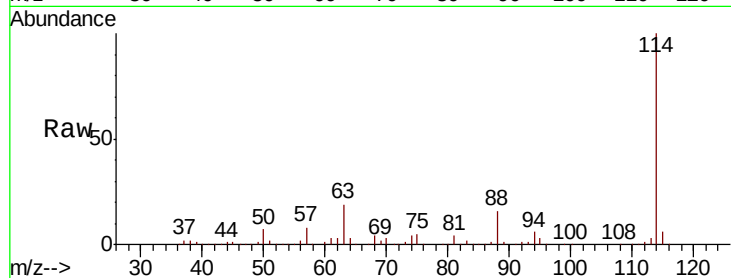




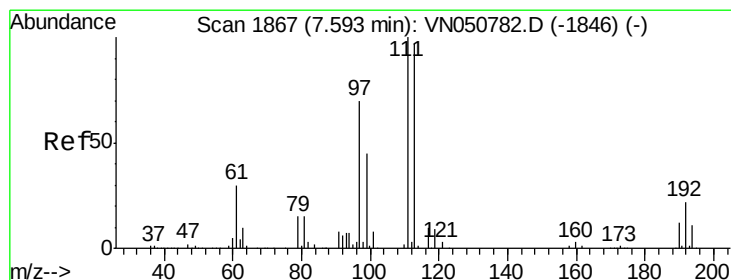
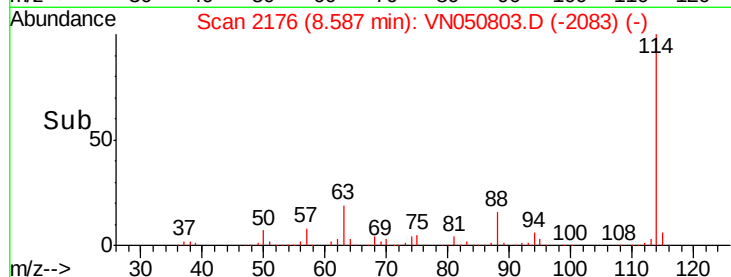
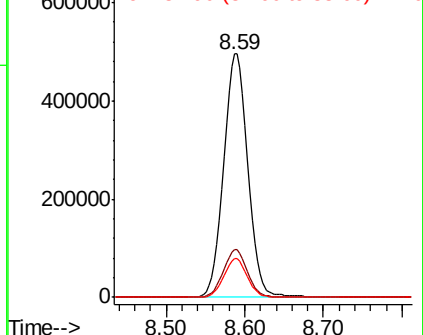
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2176
 Delta R.T. 0.00 min
 Lab File: VN050803.D
 Acq: 22 Aug 2018 00:39

Instrument :
 MSVOA_N
 ClientSampleId :
 PB112227ZHE#09

Tot Ion:114 Resp: 1046901
 Ion Ratio Lower Upper
 114 100
 63 19.4 0.0 38.6
 88 15.8 0.0 30.6

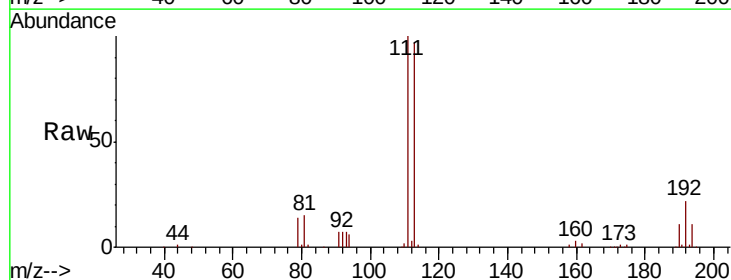


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

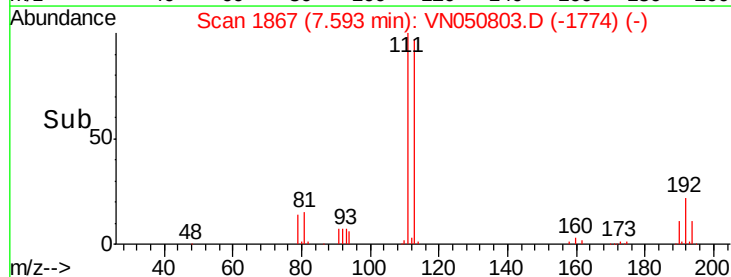
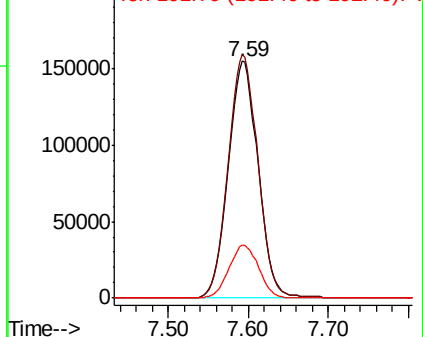


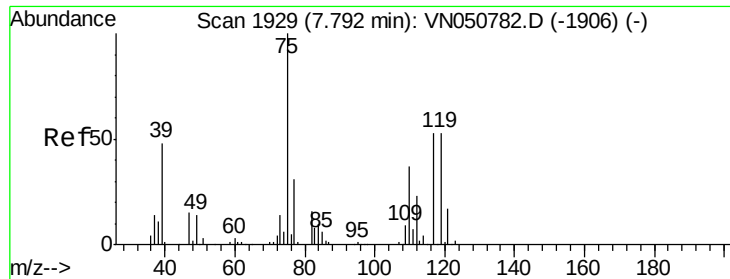
#35
 Dibromofluoromethane
 Concen: 47.275 ug/l
 RT: 7.59 min Scan# 1867
 Delta R.T. 0.00 min
 Lab File: VN050803.D
 Acq: 22 Aug 2018 00:39

Tgt Ion:113 Resp: 393738
 Ion Ratio Lower Upper
 113 100
 111 102.6 82.6 123.8
 192 22.4 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

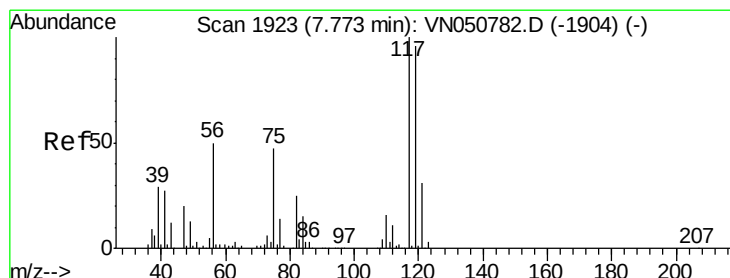
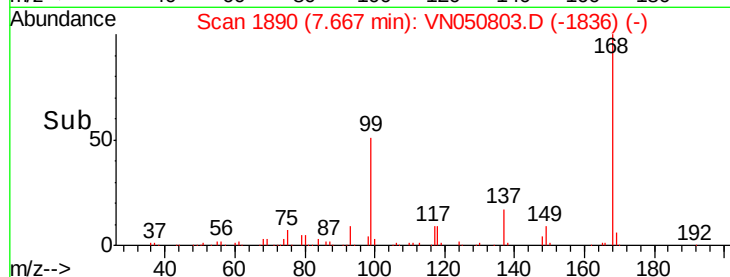
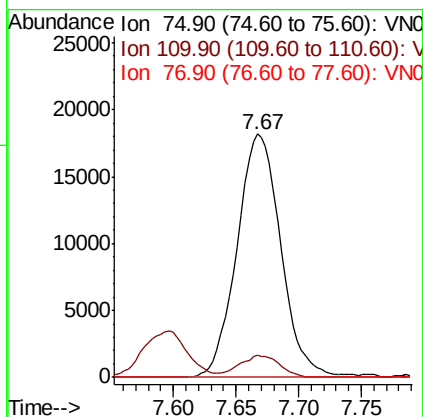
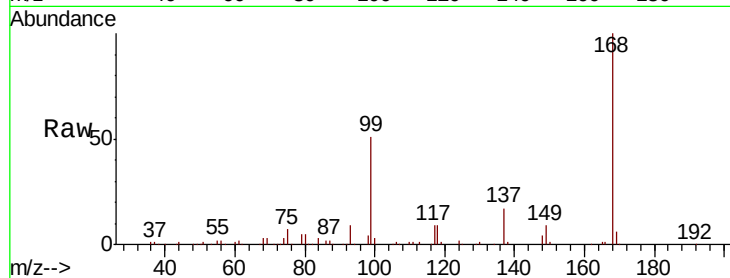




#36
 1,1-Dichloropropene
 Concen: 3.565 ug/l
 RT: 7.67 min Scan# 1890
 Delta R.T. -0.13 min
 Lab File: VN050803.D
 Acq: 22 Aug 2018 00:39

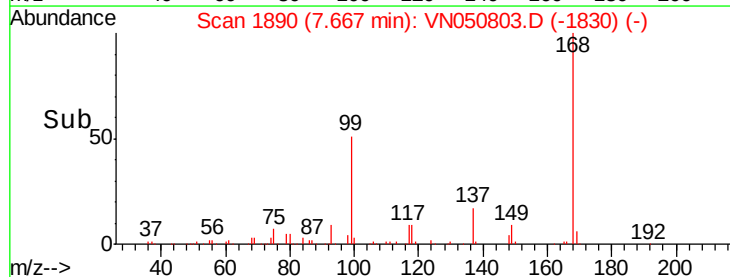
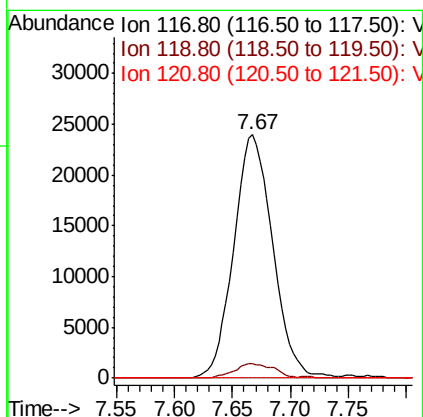
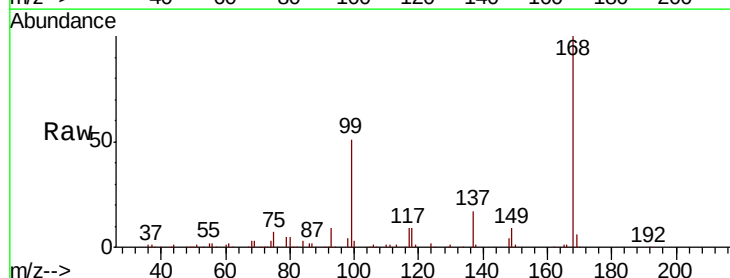
Instrument :
 MSVOA_N
 ClientSampleId :
 PB112227ZHE#09

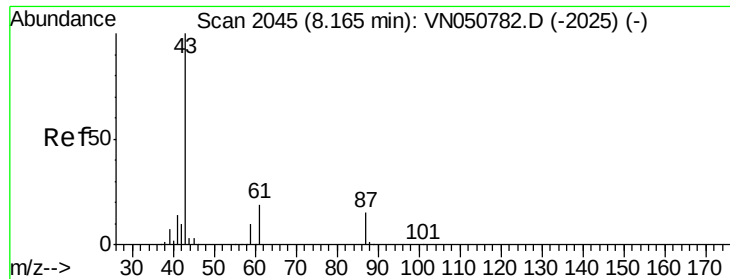
Tot Ion	Ratio	Lower	Upper
75	100		
110	8.2	18.1	54.4#
77	0.0	24.8	37.2#



#38
 Carbon Tetrachloride
 Concen: 4.487 ug/l
 RT: 7.67 min Scan# 1890
 Delta R.T. -0.11 min
 Lab File: VN050803.D
 Acq: 22 Aug 2018 00:39

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.7	76.3	114.5#
121	0.0	24.6	36.8#





#43

Isopropyl Acetate

Concen: 27.372 ug/l

RT: 8.17 min Scan# 2046

Delta R.T. 0.00 min

Lab File: VN050803.D

Acq: 22 Aug 2018 00:39

Instrument :

MSVOA_N

ClientSampleId :

PB112227ZHE#09

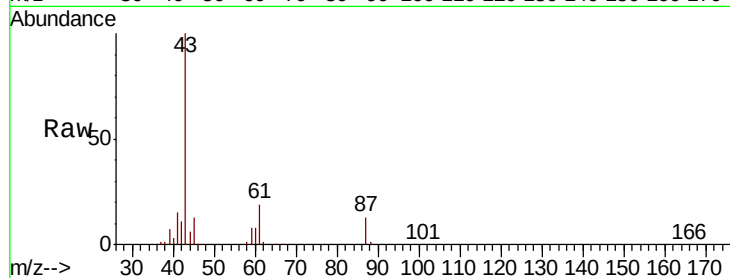
Tot Ion: 43 Resp: 333984

Ion Ratio Lower Upper

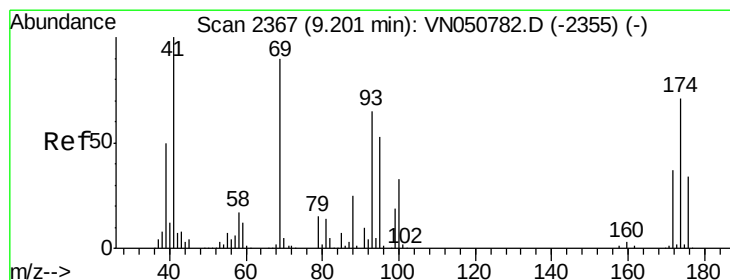
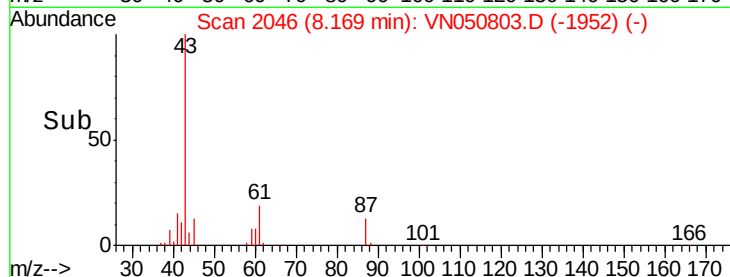
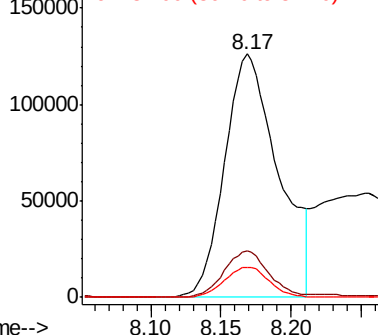
43 100

61 16.1 17.5 26.3#

87 10.5 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: 1.302 ug/l

RT: 9.18 min Scan# 2361

Delta R.T. -0.02 min

Lab File: VN050803.D

Acq: 22 Aug 2018 00:39

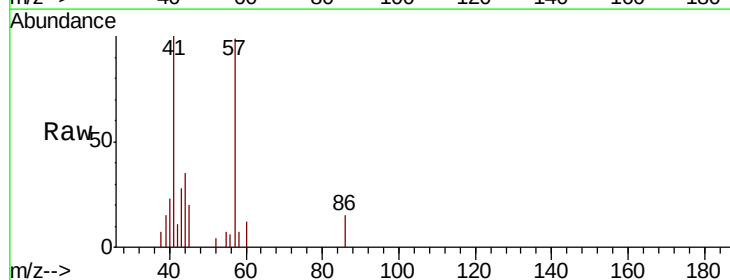
Tgt Ion: 41 Resp: 8094

Ion Ratio Lower Upper

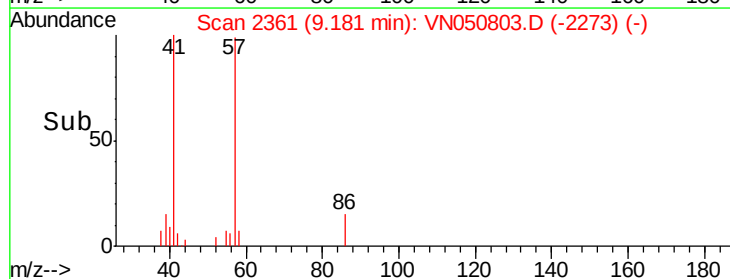
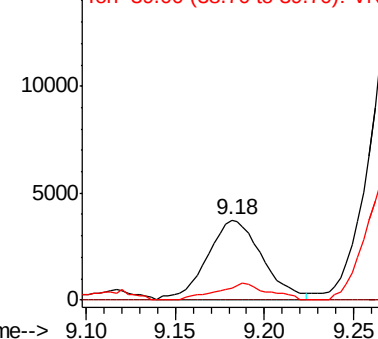
41 100

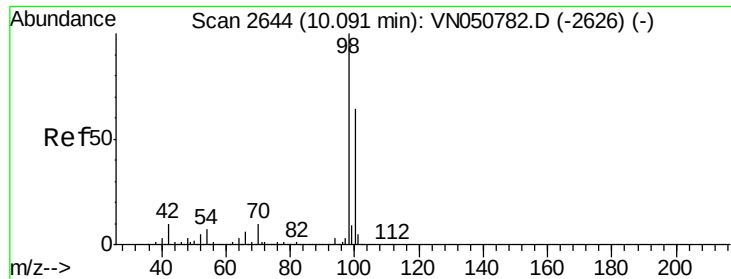
69 0.0 74.7 112.1#

39 19.5 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: 45.985 ug/l

RT: 10.09 min Scan# 2644

Delta R.T. 0.00 min

Lab File: VN050803.D

Acq: 22 Aug 2018 00:39

Instrument :

MSVOA_N

ClientSampleId :

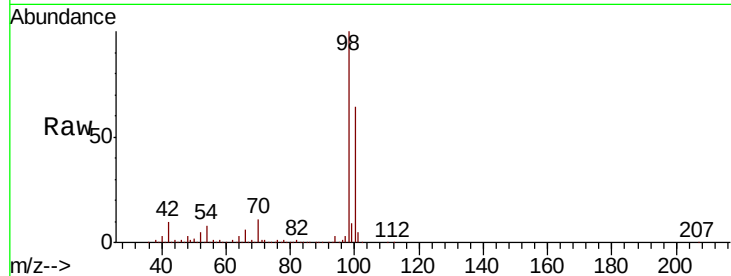
PB112227ZHE#09

Tot Ion: 98 Resp: 1431910

Ion Ratio Lower Upper

98 100

100 63.5 51.5 77.3



Abundance Ion 98.00 (97.70 to 98.70): VN050782.D (-2626) (-)

Ion 100.00 (99.70 to 100.70): VN050782.D (-2626) (-)

10.09

800000

600000

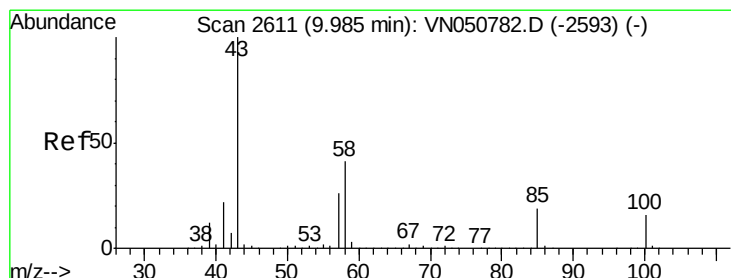
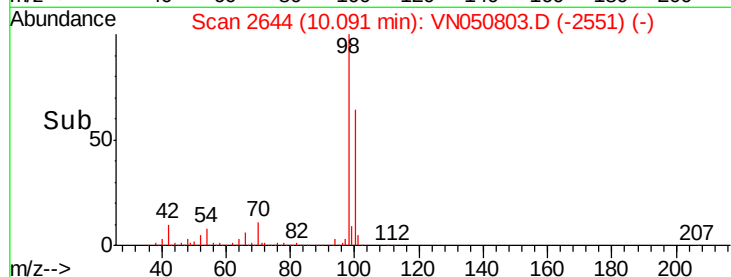
400000

200000

0

10.00 10.10 10.20

Time-->



#51

4-Methyl-2-Pentanone

Concen: 0.337 ug/l

RT: 9.99 min Scan# 2612

Delta R.T. 0.00 min

Lab File: VN050803.D

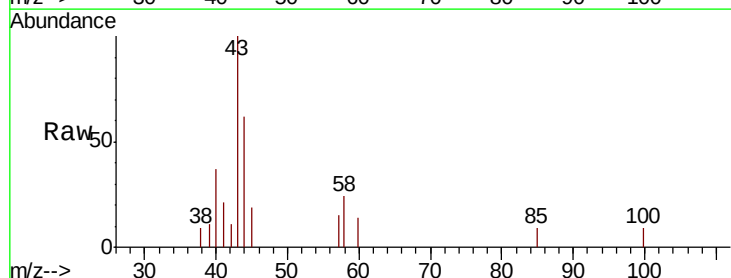
Acq: 22 Aug 2018 00:39

Tgt Ion: 43 Resp: 2454

Ion Ratio Lower Upper

43 100

58 33.5 32.4 48.6



Abundance Ion 43.00 (42.70 to 43.70): VN050782.D (-2593) (-)

Ion 58.00 (57.70 to 58.70): VN050782.D (-2593) (-)

9.99

3000

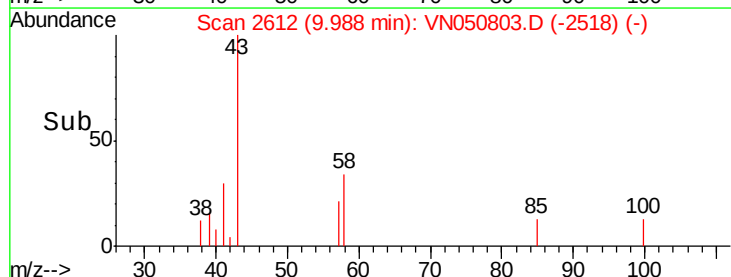
2000

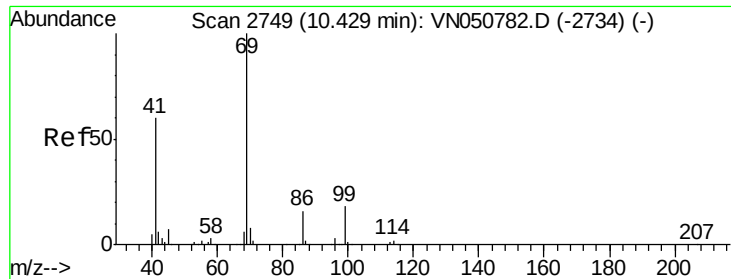
1000

0

9.95 10.00 10.05

Time-->





#56

Ethyl methacrylate

Concen: 2.356 ug/l

RT: 10.27 min Scan# 2701

Delta R.T. -0.15 min

Lab File: VN050803.D

Acq: 22 Aug 2018 00:39

Instrument :

MSVOA_N

ClientSampleId :

PB112227ZHE#09

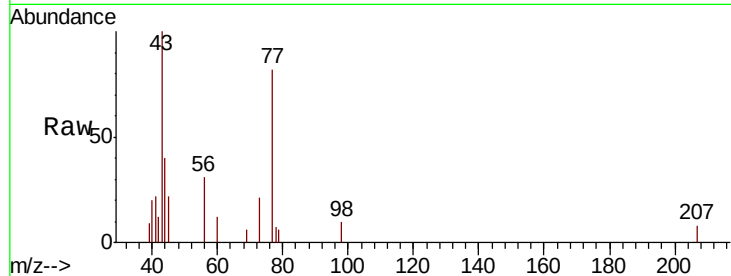
Tot Ion: 69 Resp: 66

Ion Ratio Lower Upper

69 100

41 486.4 48.3 72.5#

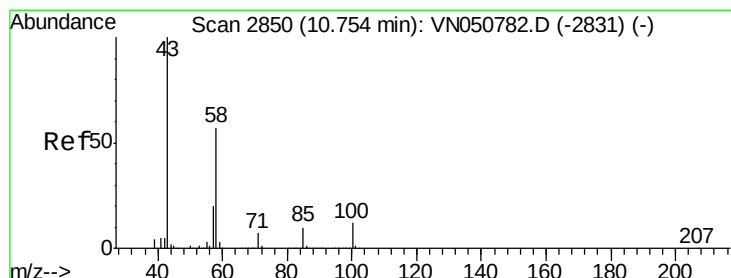
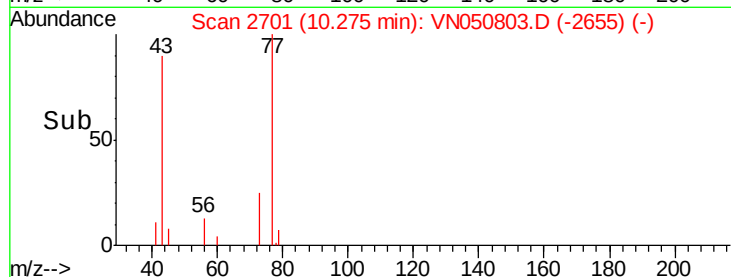
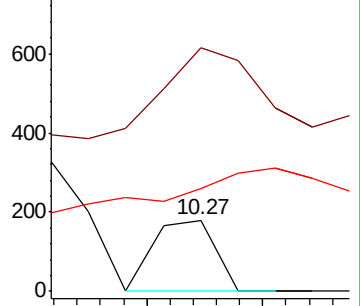
39 519.7 24.0 36.0#



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: 3.795 ug/l

RT: 10.76 min Scan# 2853

Delta R.T. 0.01 min

Lab File: VN050803.D

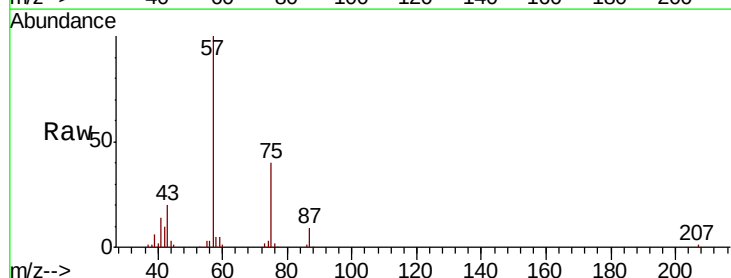
Acq: 22 Aug 2018 00:39

Tgt Ion: 43 Resp: 18394

Ion Ratio Lower Upper

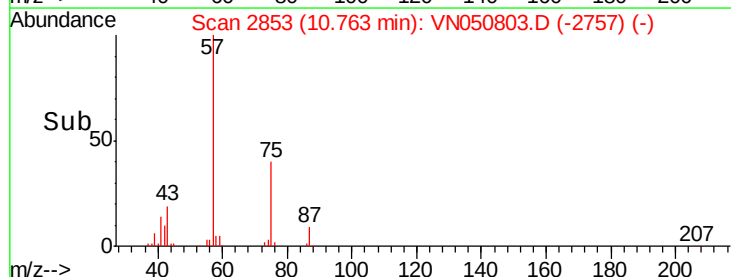
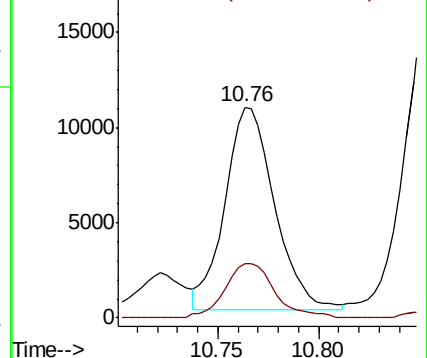
43 100

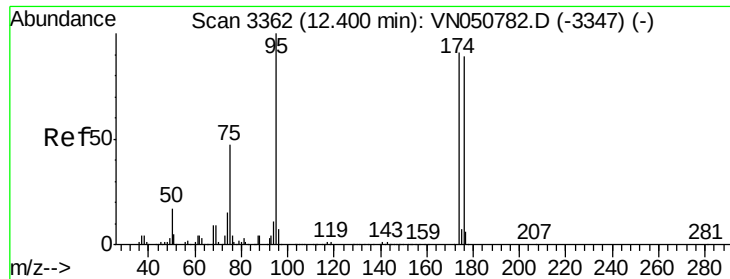
58 26.9 28.3 85.0#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

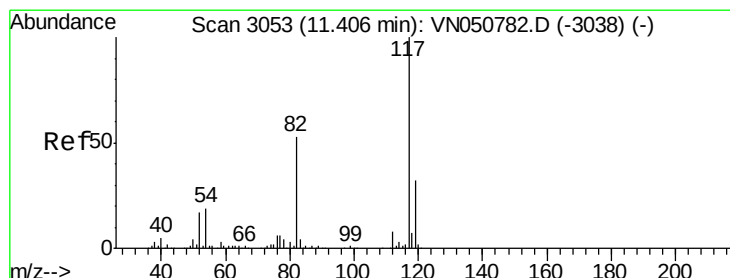
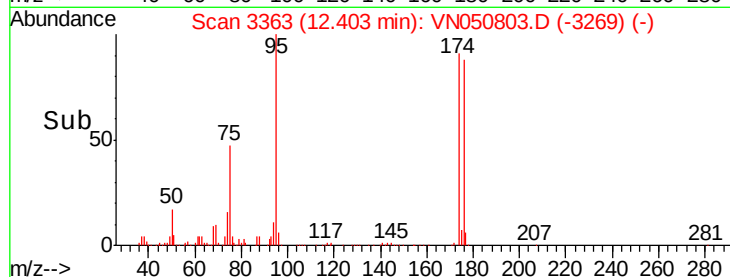
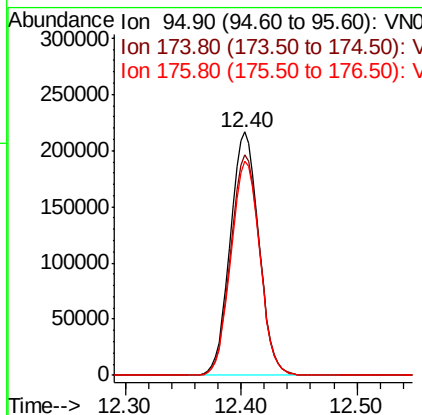
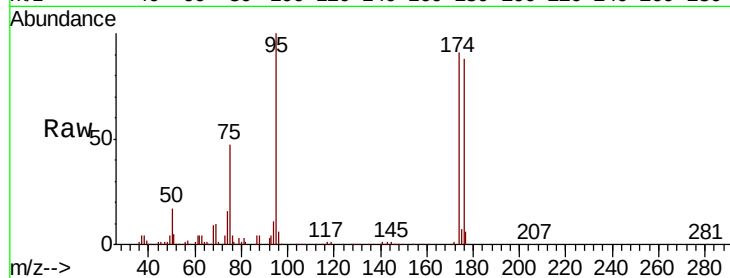




#62
4-Bromofluorobenzene
Concen: 35.473 ug/l
RT: 12.40 min Scan# 3363
Delta R.T. 0.00 min
Lab File: VN050803.D
Acq: 22 Aug 2018 00:39

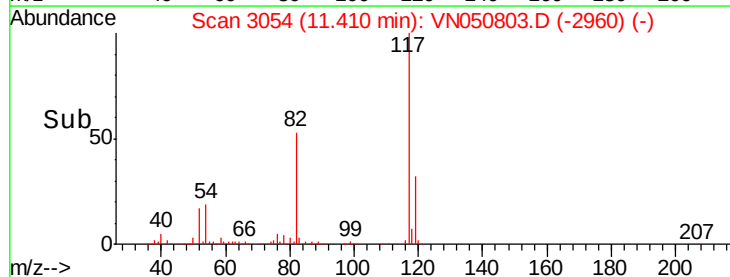
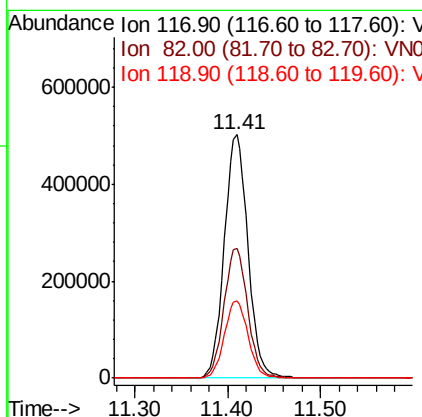
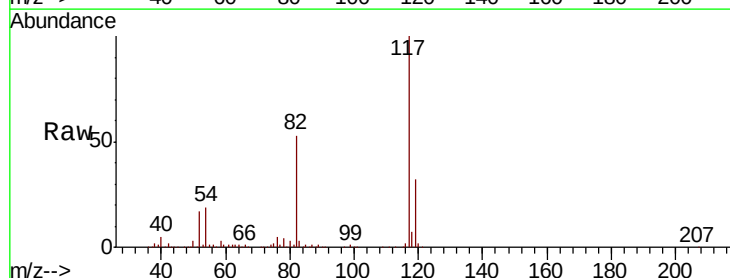
Instrument :
MSVOA_N
ClientSampleId :
PB112227ZHE#09

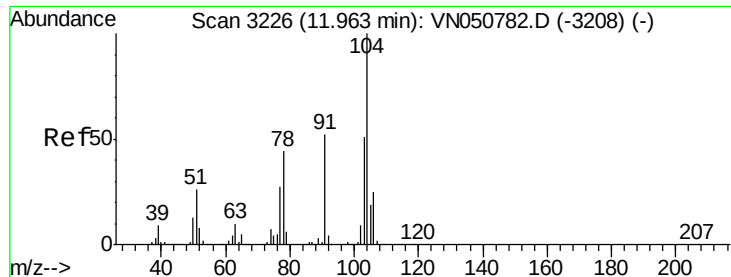
Tot Ion: 95 Resp: 367053
Ion Ratio Lower Upper
95 100
174 92.3 0.0 183.0
176 88.9 0.0 178.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. 0.00 min
Lab File: VN050803.D
Acq: 22 Aug 2018 00:39

Tgt Ion: 117 Resp: 886027
Ion Ratio Lower Upper
117 100
82 53.1 42.6 64.0
119 31.9 25.8 38.6

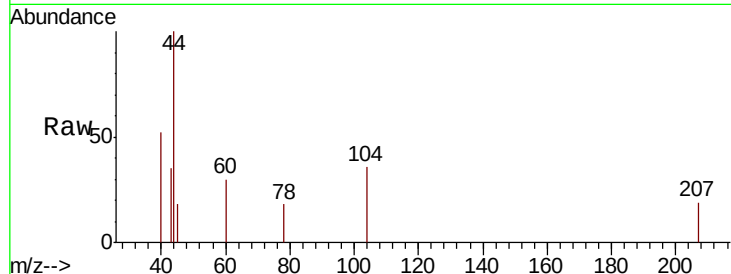




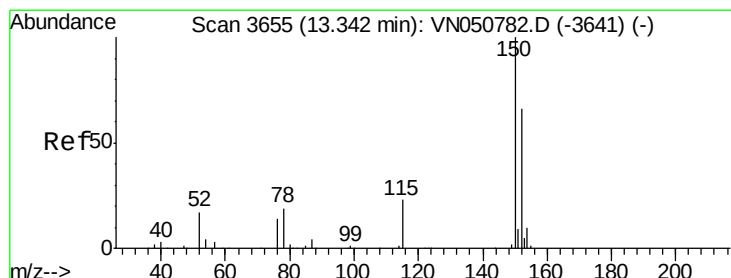
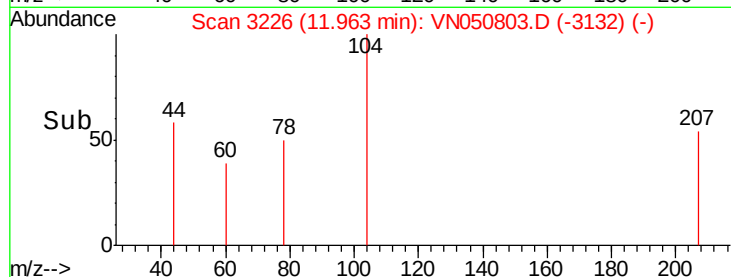
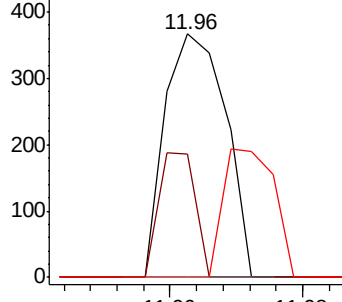
#70
Stvrene
Concen: 1.279 ug/l
RT: 11.96 min Scan# 3226
Delta R.T. 0.00 min
Lab File: VN050803.D
Acq: 22 Aug 2018 00:39

Instrument :
MSVOA_N
ClientSampleId :
PB112227ZHE#09

Tot Ion:104 Resp: 233
Ion Ratio Lower Upper
104 100
78 30.9 38.2 57.4#
103 44.6 44.4 66.6

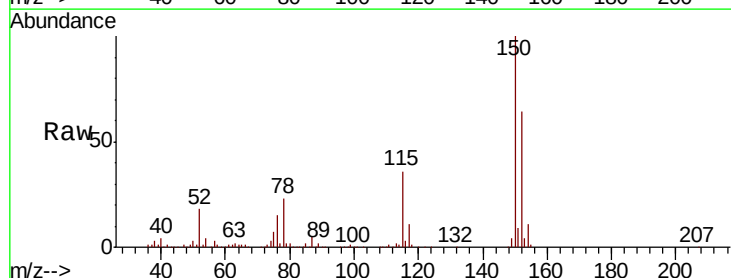


Abundance Ion 104.00 (103.70 to 104.70): V
Ion 78.00 (77.70 to 78.70): V
Ion 103.00 (102.70 to 103.70): V

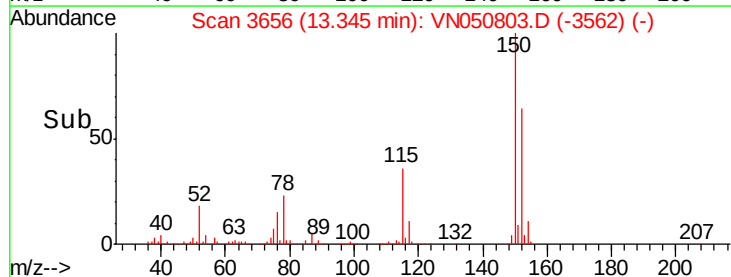
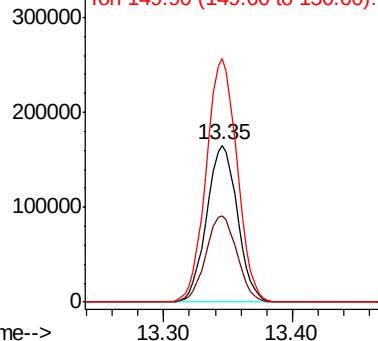


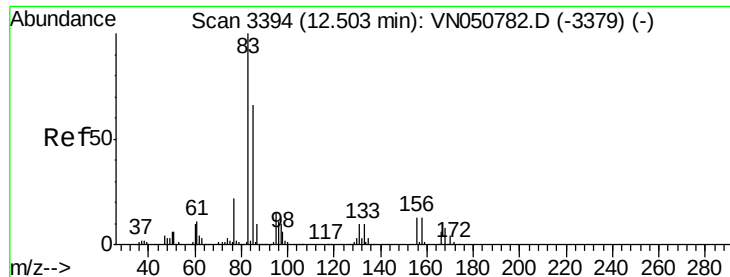
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.35 min Scan# 3656
Delta R.T. 0.00 min
Lab File: VN050803.D
Acq: 22 Aug 2018 00:39

Tgt Ion:152 Resp: 274310
Ion Ratio Lower Upper
152 100
115 55.5 27.8 83.4
150 155.9 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: 12.39 min Scan# 3360

Delta R.T. -0.11 min

Lab File: VN050803.D

Acq: 22 Aug 2018 00:39

Instrument :

MSVOA_N

ClientSampleId :

PB112227ZHE#09

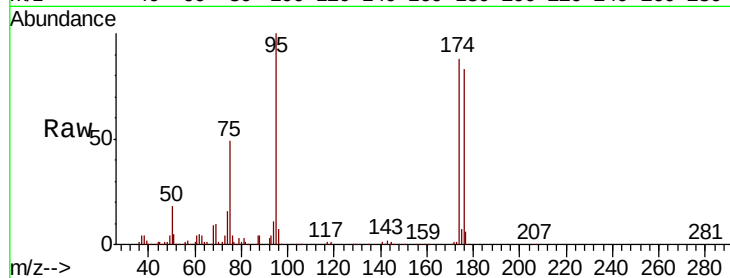
Tot Ion: 83 Resp: 170

Ion Ratio Lower Upper

83 100

131 235.9 5.3 15.9#

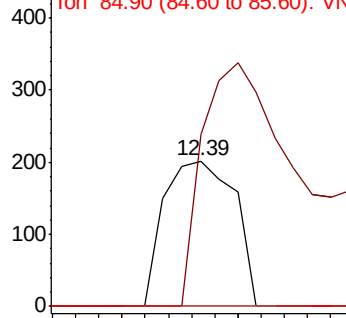
85 0.0 31.9 95.7#



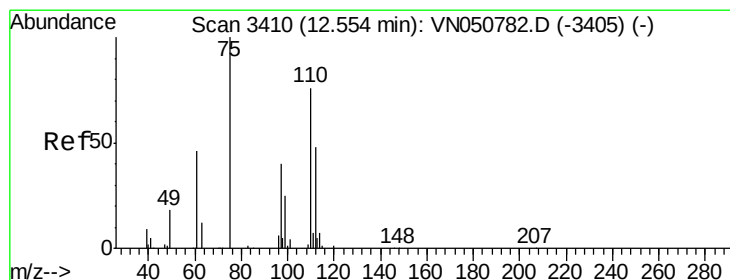
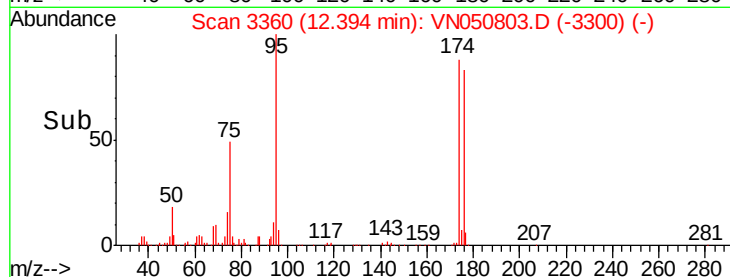
Abundance Ion 82.90 (82.60 to 83.60): VNO

Ion 130.80 (130.50 to 131.50): VNO

Ion 84.90 (84.60 to 85.60): VNO



Time-->



#76

1,2,3-Trichloropropane

Concen: 36.653 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.15 min

Lab File: VN050803.D

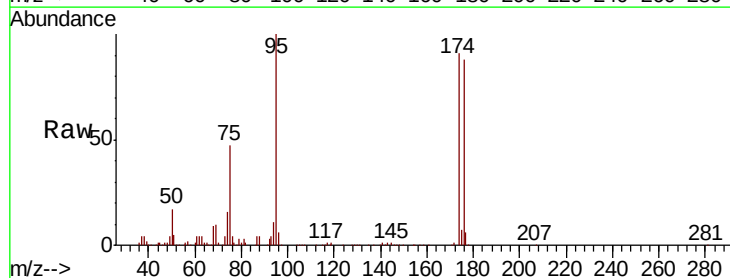
Acq: 22 Aug 2018 00:39

Tgt Ion: 75 Resp: 176103

Ion Ratio Lower Upper

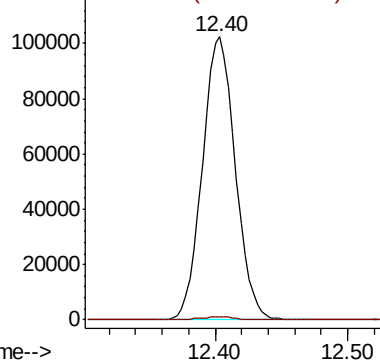
75 100

77 1.2 0.0 0.0#

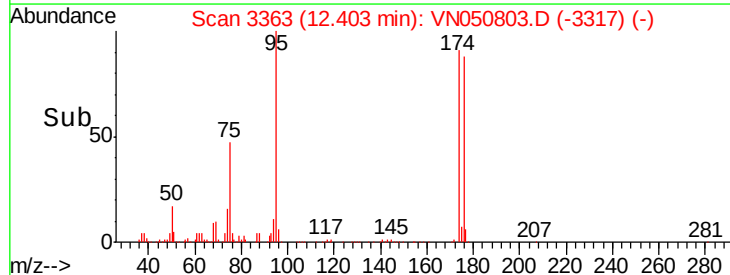


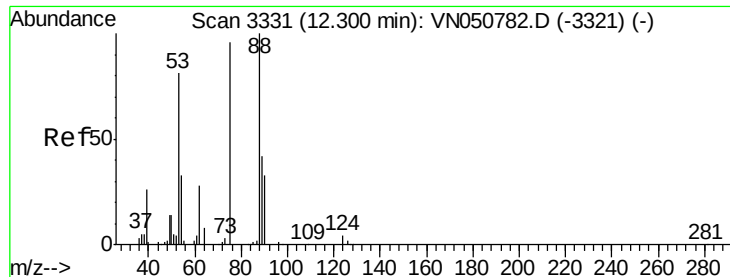
Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 77.00 (76.70 to 77.70): VNO



Time-->

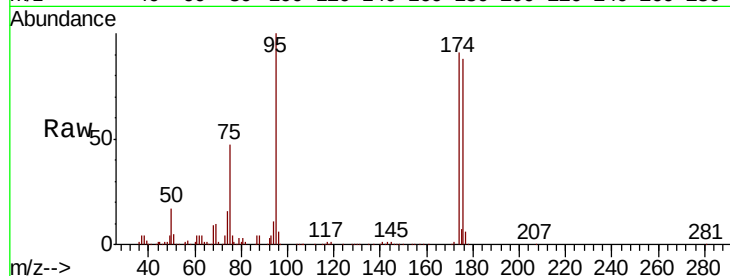




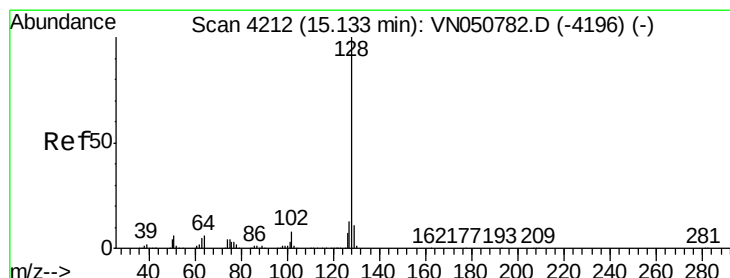
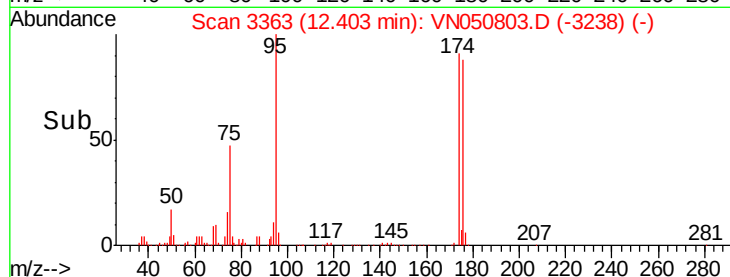
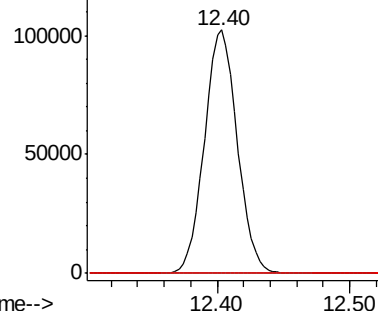
#81
 trans-1,4-Dichloro-2-butene
 Concen: 123.910 ug/l
 RT: 12.40 min Scan# 3363
 Delta R.T. 0.10 min
 Lab File: VN050803.D
 Acq: 22 Aug 2018 00:39

Instrument :
 MSVOA_N
 ClientSampleId :
 PB112227ZHE#09

Tot Ion: 75 Resp: 176103
 Ion Ratio Lower Upper
 75 100
 53 0.2 68.9 103.3#
 89 0.0 36.1 54.1#

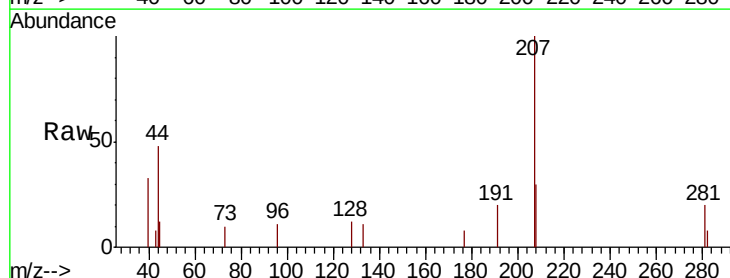


Abundance Ion 74.90 (74.60 to 75.60): VN0
 Ion 53.00 (52.70 to 53.70): VN0
 Ion 88.90 (88.60 to 89.60): VN0



#95
 Naphthalene
 Concen: 5.415 ug/l
 RT: 15.13 min Scan# 4212
 Delta R.T. 0.00 min
 Lab File: VN050803.D
 Acq: 22 Aug 2018 00:39

Tgt Ion: 128 Resp: 188
 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

