

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN082118\
 Data File : VN050805.D
 Acq On : 22 Aug 2018 1:28
 Operator : MD\SY
 Sample : PB112227ZHE#11
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 36 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB112227ZHE#11

Quant Time: Aug 22 06:46:23 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	629153	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1051378	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	890588	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	275902	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	414275	54.70	ug/l	0.00
Spiked Amount			Recovery	=	109.40%	
35) Dibromofluoromethane	7.59	113	392026	46.87	ug/l	0.00
Spiked Amount			Recovery	=	93.74%	
50) Toluene-d8	10.09	98	1434722	45.88	ug/l	0.00
Spiked Amount			Recovery	=	91.76%	
62) 4-Bromofluorobenzene	12.40	95	368447	35.46	ug/l	0.00
Spiked Amount			Recovery	=	70.92%	

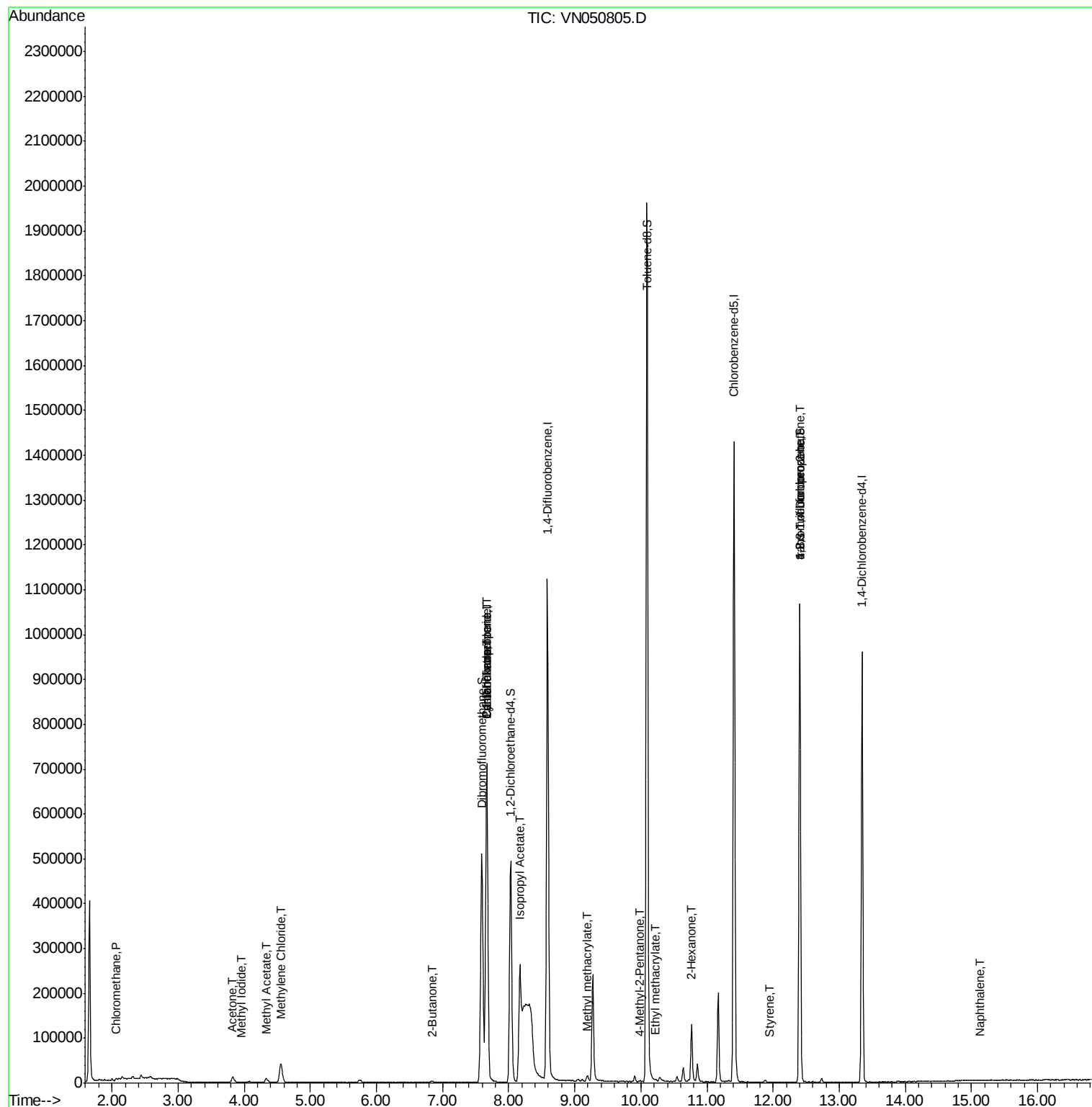
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.06	50	2950	0.284	ug/l	97
5) Bromomethane	2.57	94	2806	Below Cal		91
10) Methyl Iodide	3.96	142	960	6.462	ug/l #	70
16) Acetone	3.82	43	20959	4.756	ug/l	95
18) Methyl Acetate	4.34	43	18515	2.589	ug/l	91
20) Methylene Chloride	4.56	84	32453	3.802	ug/l	98
25) 2-Butanone	6.85	43	2712	0.889	ug/l	93
31) Cyclohexane	7.67	56	11279	1.334	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	42993	3.465	ug/l #	48
38) Carbon Tetrachloride	7.67	117	55927	4.460	ug/l #	17
43) Isopropyl Acetate	8.17	43	338358	27.613	ug/l #	88
48) Methyl methacrylate	9.18	41	7835	1.255	ug/l #	16
51) 4-Methyl-2-Pentanone	9.99	43	1832	0.251	ug/l	94
56) Ethyl methacrylate	10.23	69	2580	2.580	ug/l #	84
59) 2-Hexanone	10.77	43	17719	3.640	ug/l #	55
70) Styrene	11.96	104	185	1.278	ug/l #	50
75) 1,1,2,2-Tetrachloroethane	12.40	83	157	Below Cal	#	1
76) 1,2,3-Trichloropropane	12.40	75	174733	36.158	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	174733	122.236	ug/l #	15
95) Naphthalene	15.14	128	155	5.412	ug/l #	69

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

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN082118\
Data File : VN050805.D
Acq On : 22 Aug 2018 1:28
Operator : MD\SY
Sample : PB112227ZHE#11
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 36 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
PB112227ZHE#11

Quant Time: Aug 22 06:46:23 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N082118W.M
Quant Title : SW846 8260
QLast Update : Wed Aug 22 05:38:12 2018
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: VN050805.D

Acq: 22 Aug 2018 1:28

Instrument :

MSVOA_N

ClientSampleId :

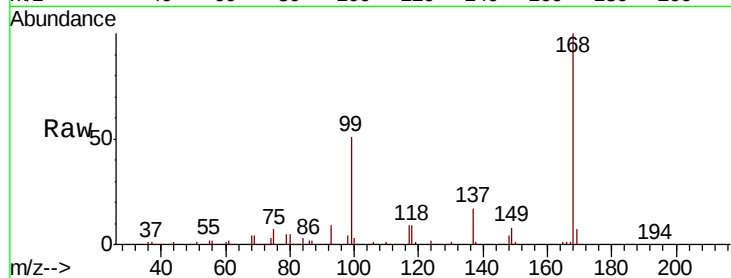
PB112227ZHE#11

Tot Ion:168 Resp: 629153

Ion Ratio Lower Upper

168 100

99 50.8 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

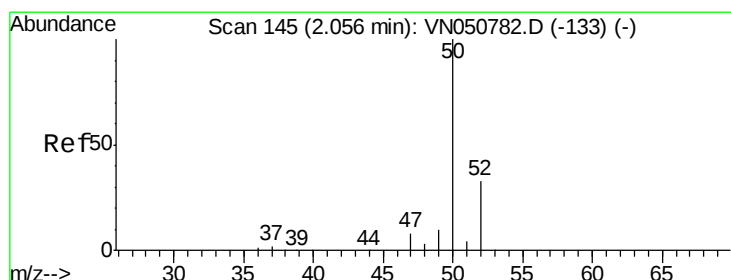
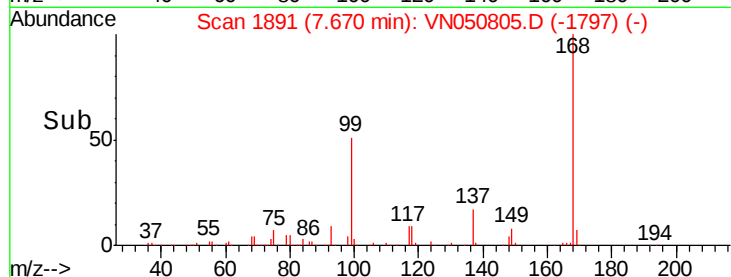
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 0.284 ug/l

RT: 2.06 min Scan# 146

Delta R.T. 0.00 min

Lab File: VN050805.D

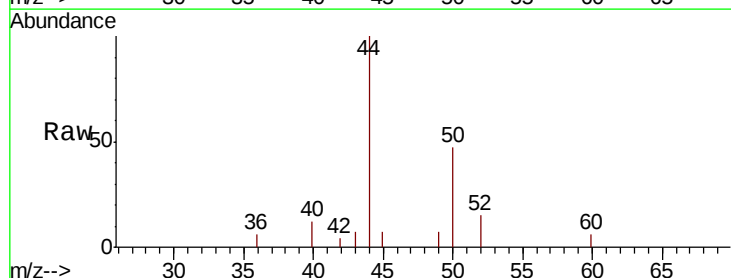
Acq: 22 Aug 2018 1:28

Tgt Ion: 50 Resp: 2950

Ion Ratio Lower Upper

50 100

52 31.2 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

2500

2000

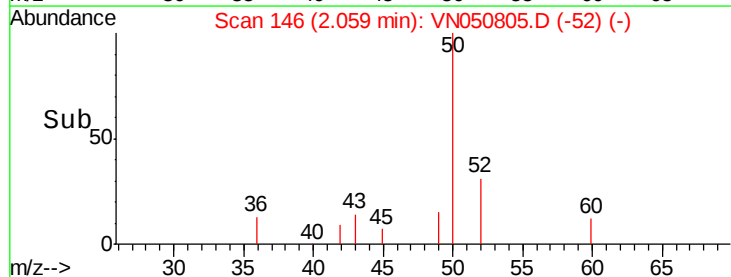
1500

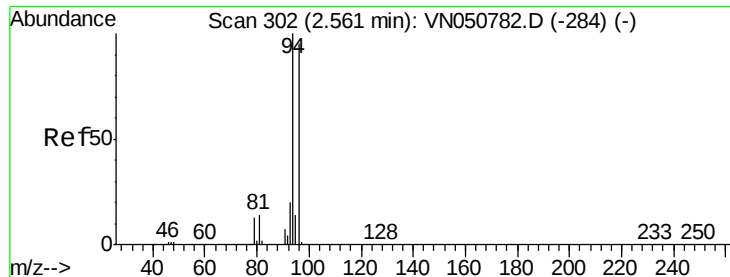
1000

500

0

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 2.57 min Scan# 304

Delta R.T. 0.01 min

Lab File: VN050805.D

Acq: 22 Aug 2018 1:28

Instrument :

MSVOA_N

ClientSampleId :

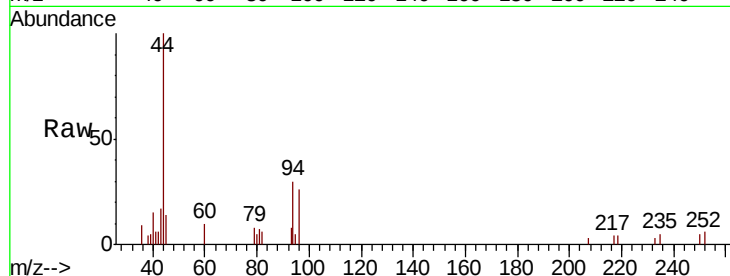
PB112227ZHE#11

Tot Ion: 94 Resp: 2806

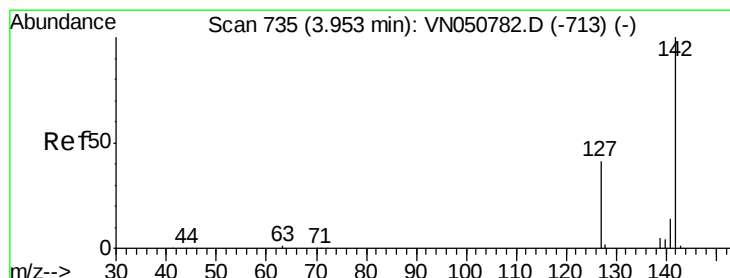
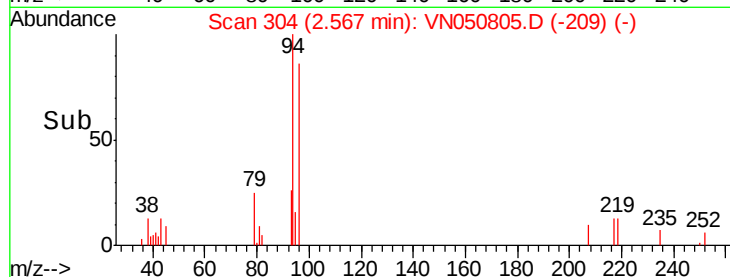
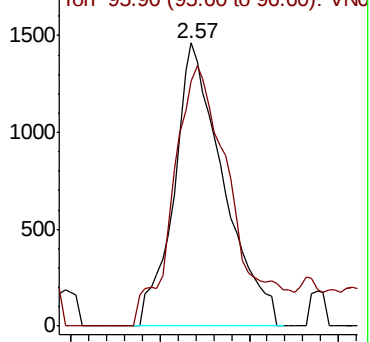
Ion Ratio Lower Upper

94 100

96 86.4 76.2 114.2



Abundance Ion 93.90 (93.60 to 94.60): VN050782.D (-284) (-)



#10

Methyl Iodide

Concen: 6.462 ug/l

RT: 3.96 min Scan# 736

Delta R.T. 0.00 min

Lab File: VN050805.D

Acq: 22 Aug 2018 1:28

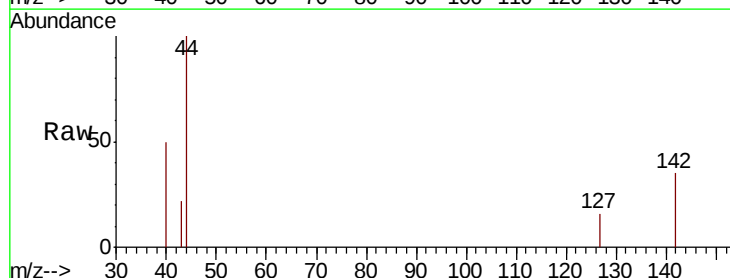
Tgt Ion: 142 Resp: 960

Ion Ratio Lower Upper

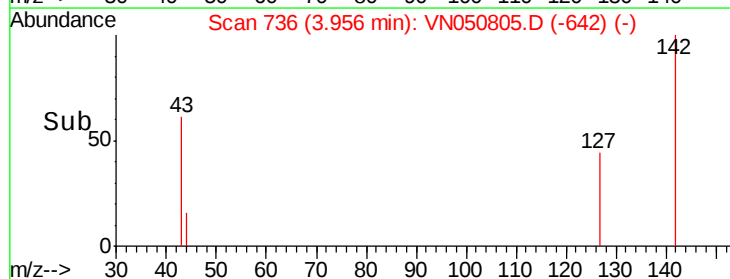
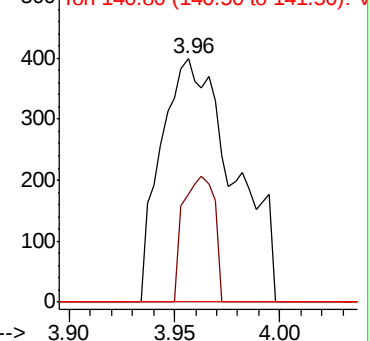
142 100

127 22.0 31.7 47.5#

141 0.0 11.4 17.0#



Abundance Ion 141.80 (141.50 to 142.50): VN050782.D (-713) (-)





#16

Acetone

Concen: 4.756 ug/l

RT: 3.82 min Scan# 695

Delta R.T. 0.01 min

Lab File: VN050805.D

Acq: 22 Aug 2018 1:28

Instrument :

MSVOA_N

ClientSampleId :

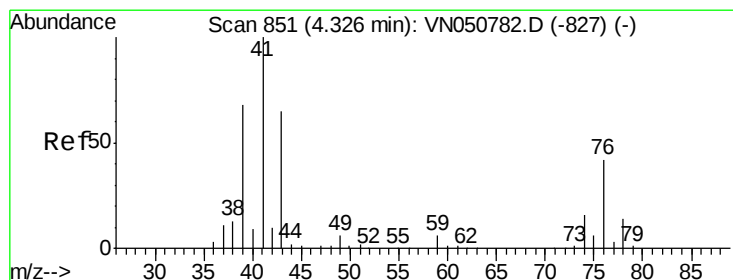
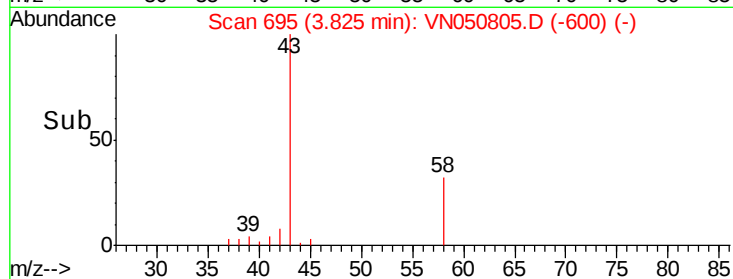
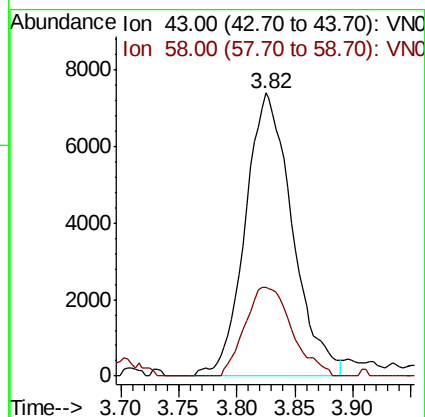
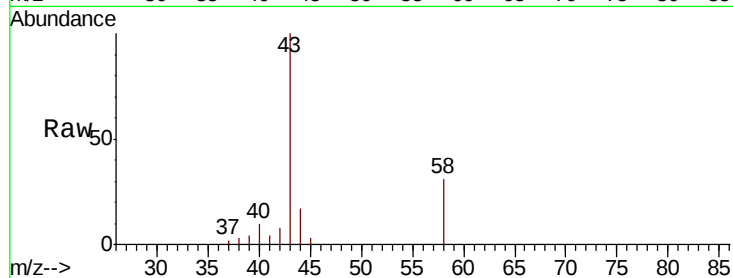
PB112227ZHE#11

Tot Ion: 43 Resp: 20959

Ion Ratio Lower Upper

43 100

58 31.3 27.2 40.8



#18

Methyl Acetate

Concen: 2.589 ug/l

RT: 4.34 min Scan# 855

Delta R.T. 0.01 min

Lab File: VN050805.D

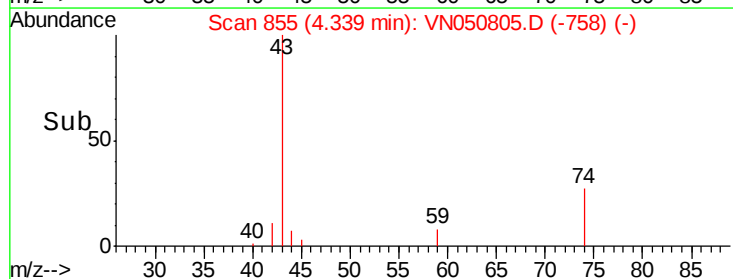
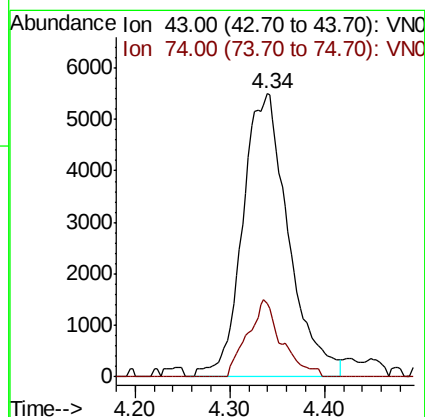
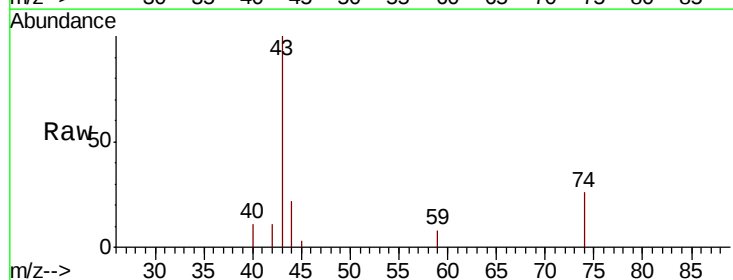
Acq: 22 Aug 2018 1:28

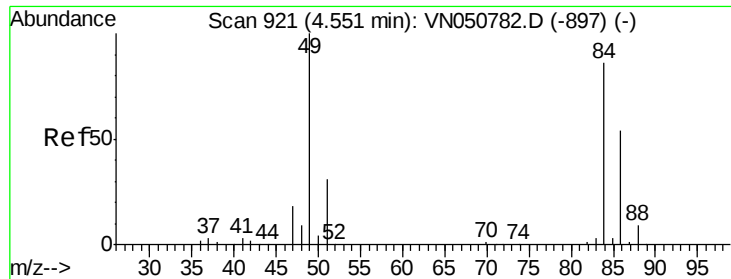
Tgt Ion: 43 Resp: 18515

Ion Ratio Lower Upper

43 100

74 20.4 19.8 29.8

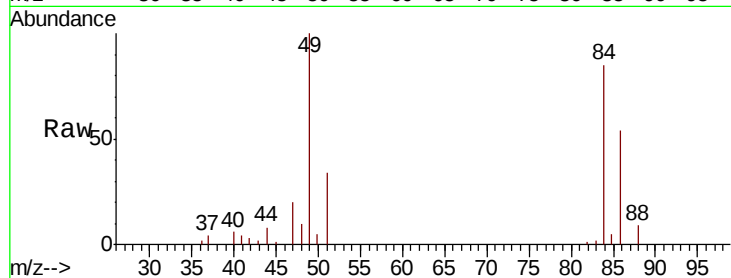




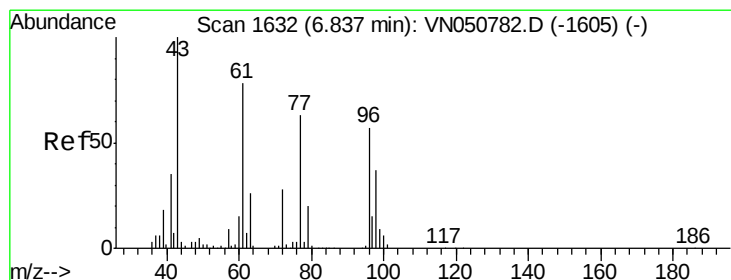
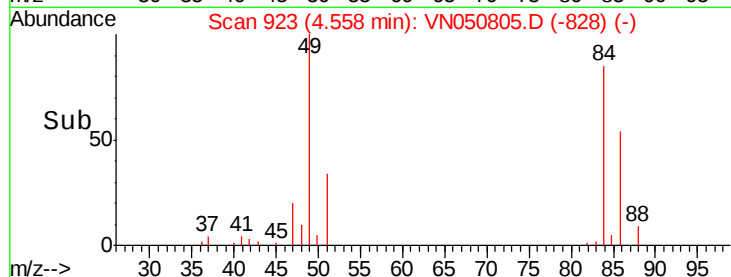
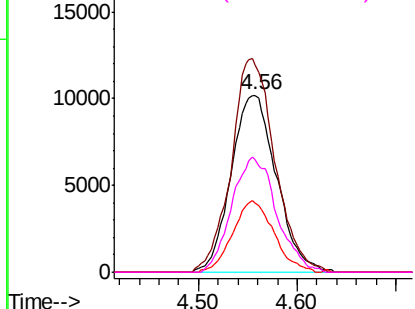
#20
Methvlene Chloride
Concen: 3.802 ug/l
RT: 4.56 min Scan# 923
Delta R.T. 0.01 min
Lab File: VN050805.D
Acq: 22 Aug 2018 1:28

Instrument :
MSVOA_N
ClientSampleId :
PB112227ZHE#11

Tot Ion: 84 Resp: 32453
Ion Ratio Lower Upper
84 100
49 117.7 93.2 139.8
51 39.4 29.0 43.6
86 63.7 49.8 74.8

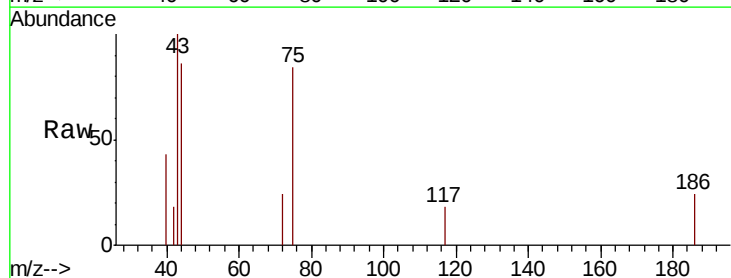


Abundance Ion 83.90 (83.60 to 84.60): VNO
Ion 48.90 (48.60 to 49.60): VNO
Ion 50.90 (50.60 to 51.60): VNO
Ion 85.90 (85.60 to 86.60): VNO

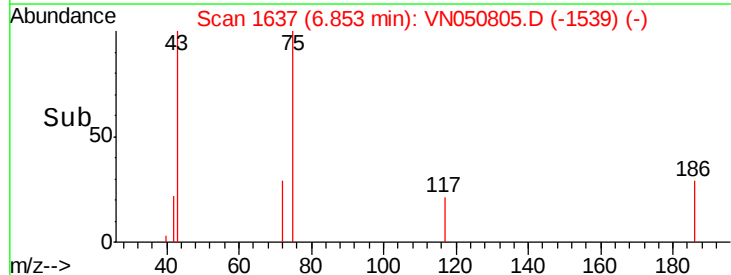
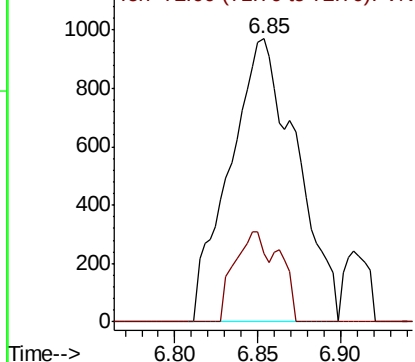


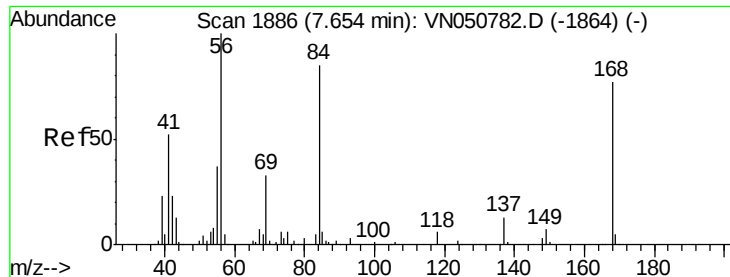
#25
2-Butanone
Concen: 0.889 ug/l
RT: 6.85 min Scan# 1637
Delta R.T. 0.02 min
Lab File: VN050805.D
Acq: 22 Aug 2018 1:28

Tgt Ion: 43 Resp: 2712
Ion Ratio Lower Upper
43 100
72 24.4 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: 1.334 ug/l

RT: 7.67 min Scan# 1892

Delta R.T. 0.02 min

Lab File: VN050805.D

Acq: 22 Aug 2018 1:28

Instrument :

MSVOA_N

ClientSampleId :

PB112227ZHE#11

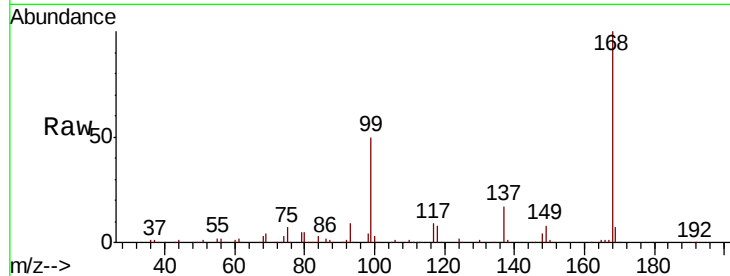
Tot Ion: 56 Resp: 11279

Ion Ratio Lower Upper

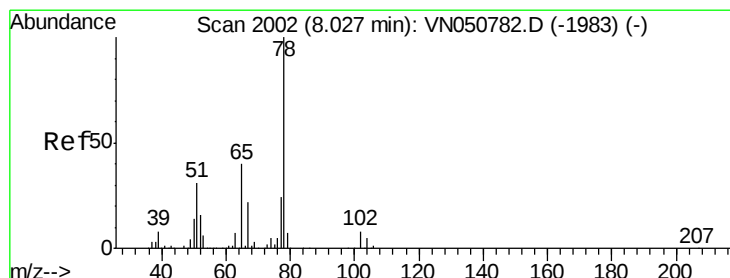
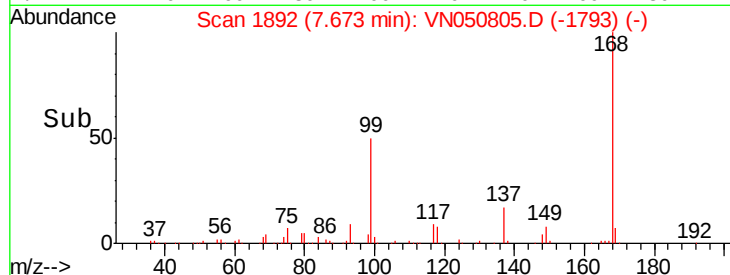
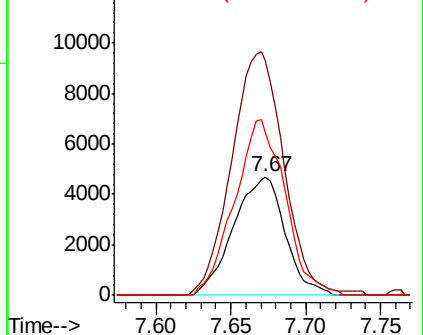
56 100

69 197.7 26.2 39.4#

84 137.0 68.3 102.5#



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



#33

1,2-Dichloroethane-d4

Concen: 54.696 ug/l

RT: 8.03 min Scan# 2003

Delta R.T. 0.00 min

Lab File: VN050805.D

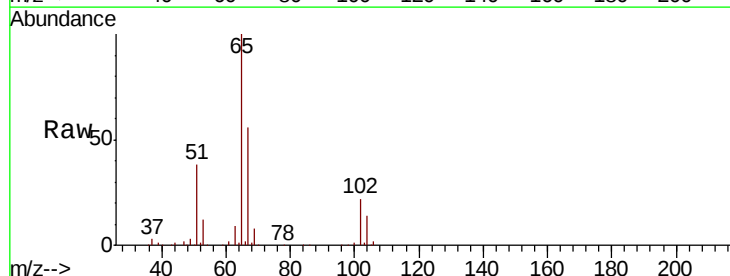
Acq: 22 Aug 2018 1:28

Tgt Ion: 65 Resp: 414275

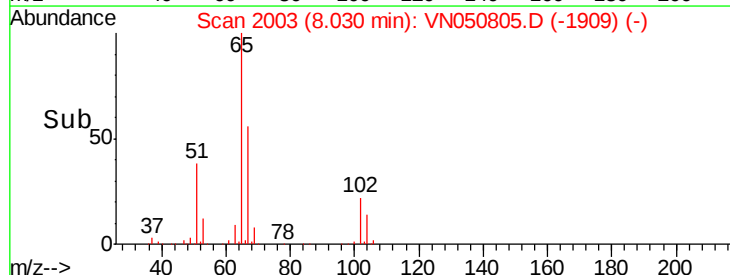
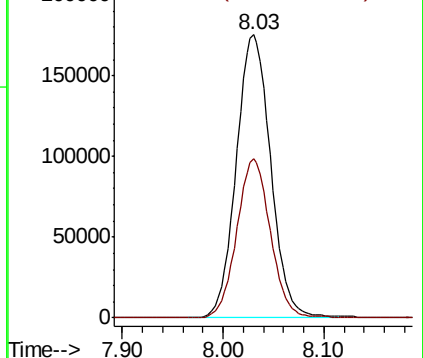
Ion Ratio Lower Upper

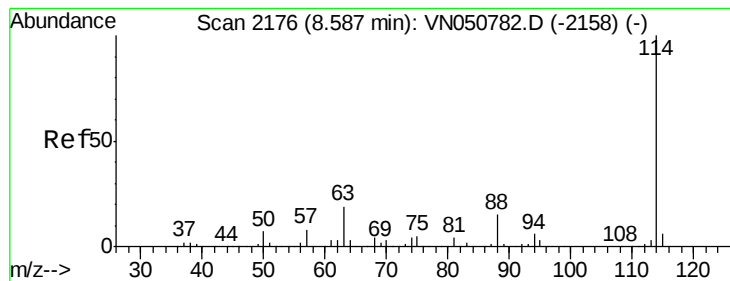
65 100

67 54.7 0.0 110.4



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





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.59 min Scan# 2176

Delta R.T. -0.00 min

Lab File: VN050805.D

Acq: 22 Aug 2018 1:28

Instrument :

MSVOA_N

ClientSampleId :

PB112227ZHE#11

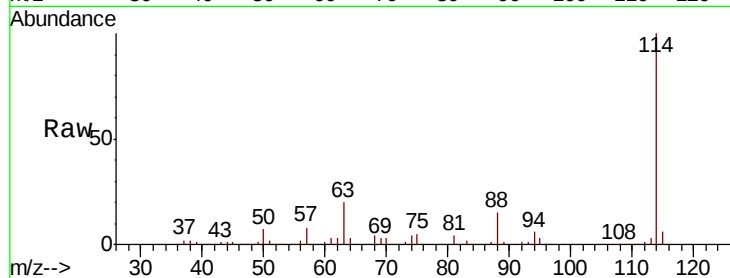
Tot Ion:114 Resp: 1051378

Ion Ratio Lower Upper

114 100

63 19.7 0.0 38.6

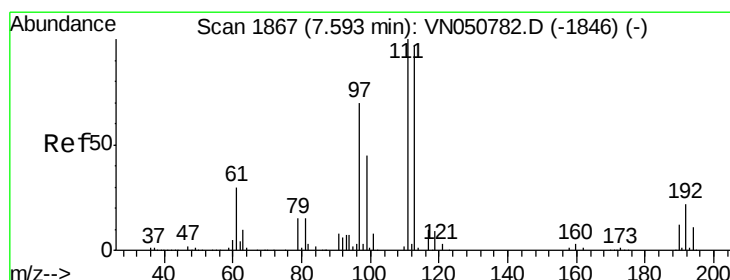
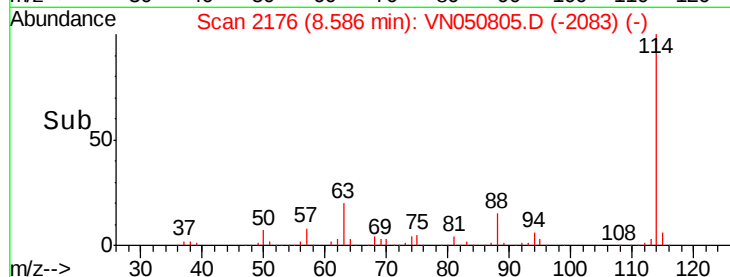
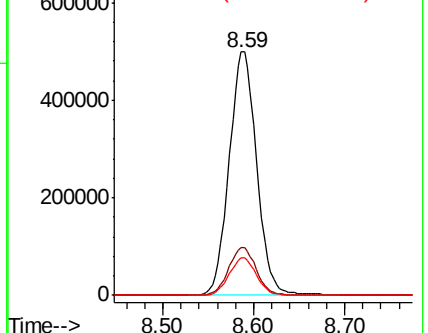
88 15.4 0.0 30.6



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: 46.869 ug/l

RT: 7.59 min Scan# 1867

Delta R.T. -0.00 min

Lab File: VN050805.D

Acq: 22 Aug 2018 1:28

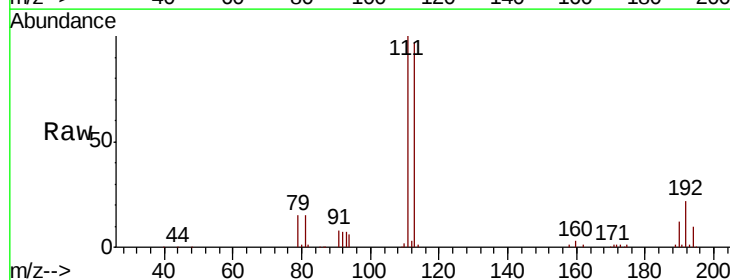
Tgt Ion:113 Resp: 392026

Ion Ratio Lower Upper

113 100

111 103.0 82.6 123.8

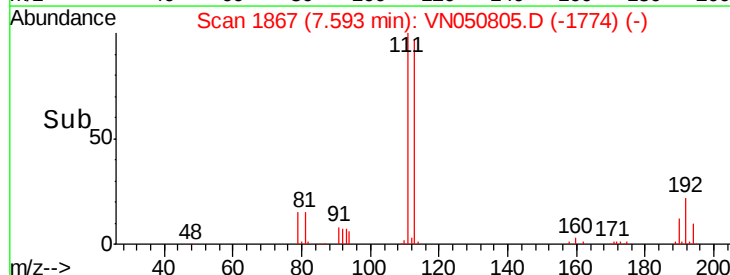
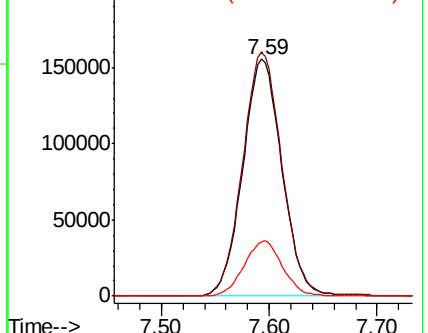
192 22.9 18.0 27.0

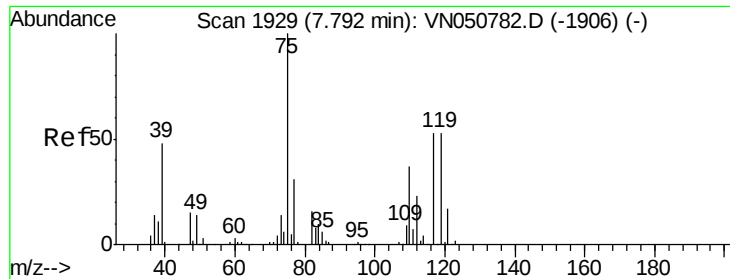


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

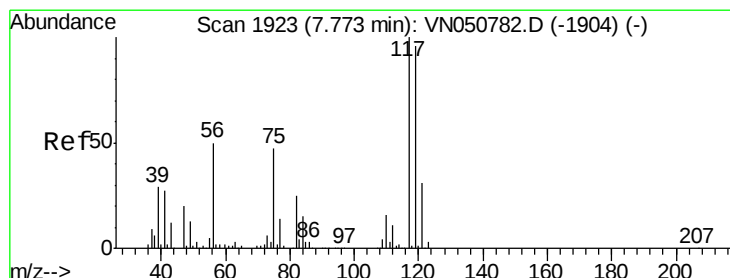
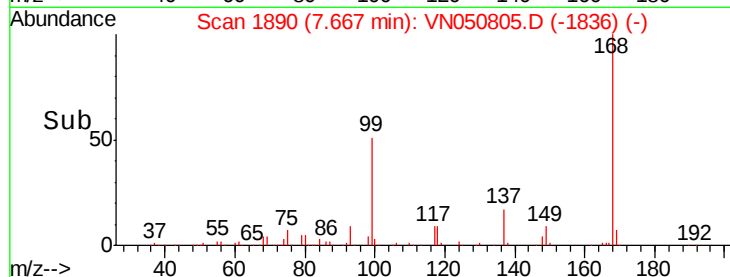
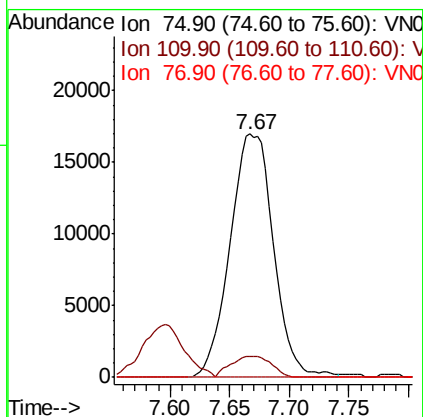
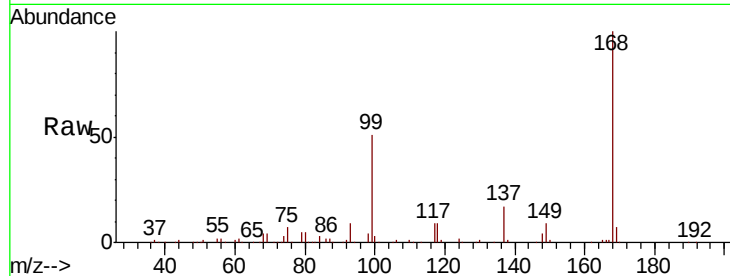




#36
 1,1-Dichloropropene
 Concen: 3.465 ug/l
 RT: 7.67 min Scan# 1890
 Delta R.T. -0.13 min
 Lab File: VN050805.D
 Acq: 22 Aug 2018 1:28

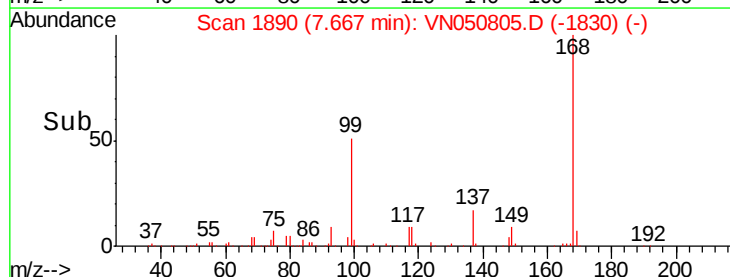
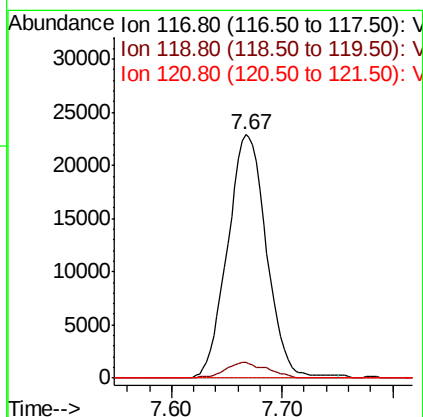
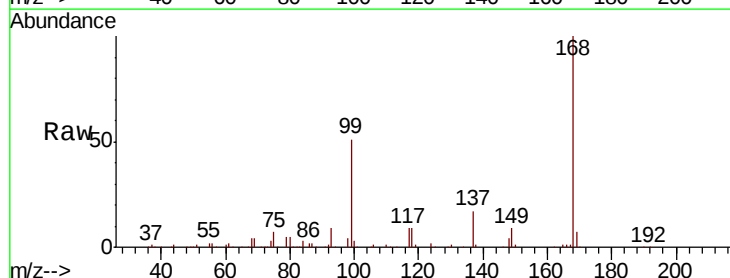
Instrument :
 MSVOA_N
 ClientSampleId :
 PB112227ZHE#11

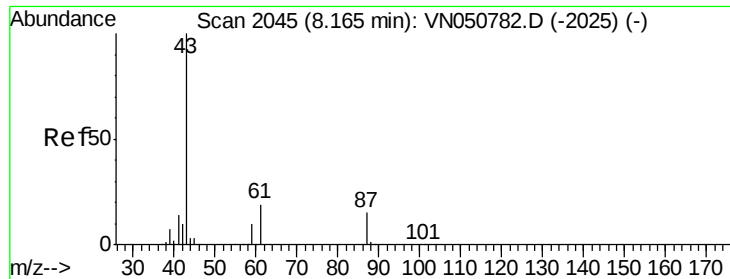
Tot Ion	Ratio	Lower	Upper
75	100		
110	8.1	18.1	54.4#
77	0.0	24.8	37.2#



#38
 Carbon Tetrachloride
 Concen: 4.460 ug/l
 RT: 7.67 min Scan# 1890
 Delta R.T. -0.11 min
 Lab File: VN050805.D
 Acq: 22 Aug 2018 1:28

Tgt Ion	Ratio	Lower	Upper
117	100		
119	6.6	76.3	114.5#
121	0.0	24.6	36.8#





#43

Isopropyl Acetate

Concen: 27.613 ug/l

RT: 8.17 min Scan# 2046

Delta R.T. 0.00 min

Lab File: VN050805.D

Acq: 22 Aug 2018 1:28

Instrument :

MSVOA_N

ClientSampleId :

PB112227ZHE#11

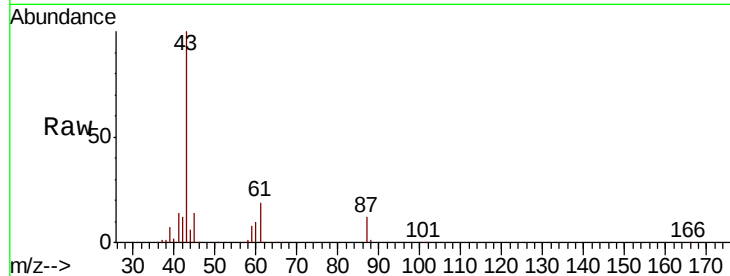
Tot Ion: 43 Resp: 338358

Ion Ratio Lower Upper

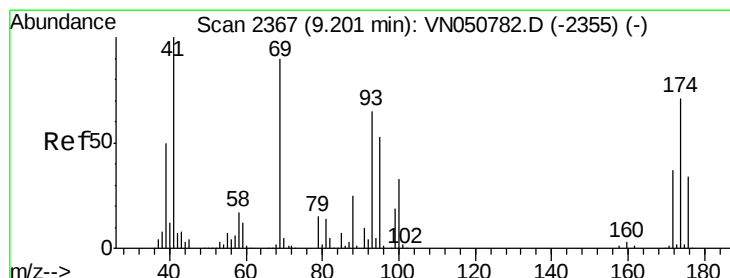
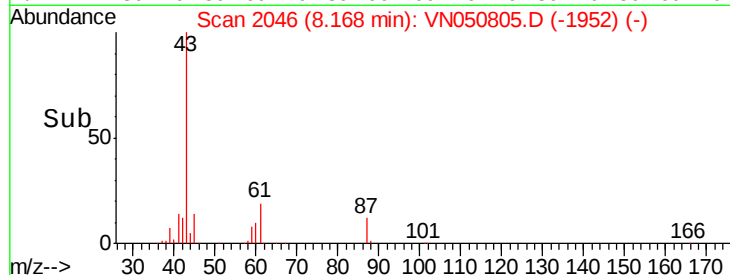
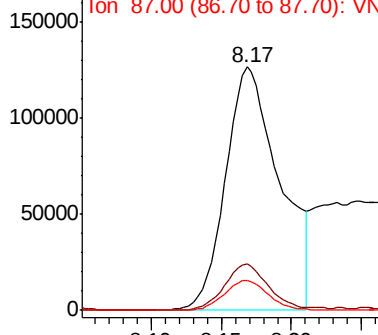
43 100

61 15.8 17.5 26.3#

87 10.0 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: 1.255 ug/l

RT: 9.18 min Scan# 2362

Delta R.T. -0.02 min

Lab File: VN050805.D

Acq: 22 Aug 2018 1:28

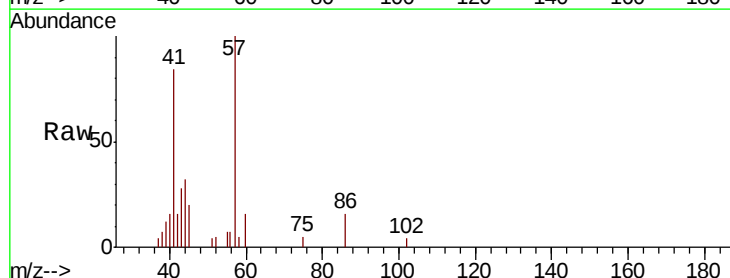
Tgt Ion: 41 Resp: 7835

Ion Ratio Lower Upper

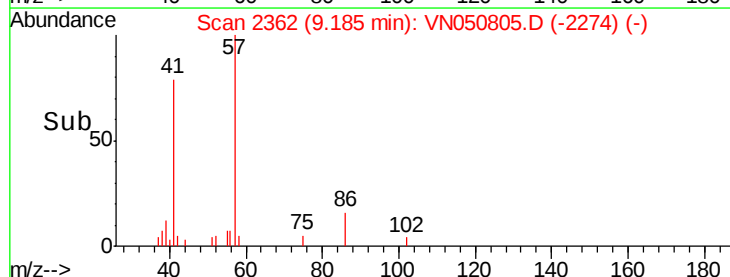
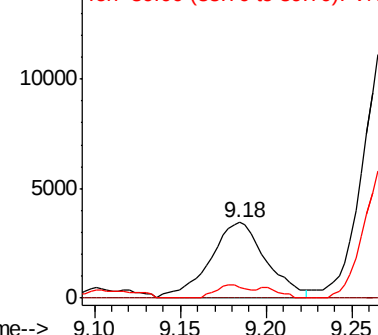
41 100

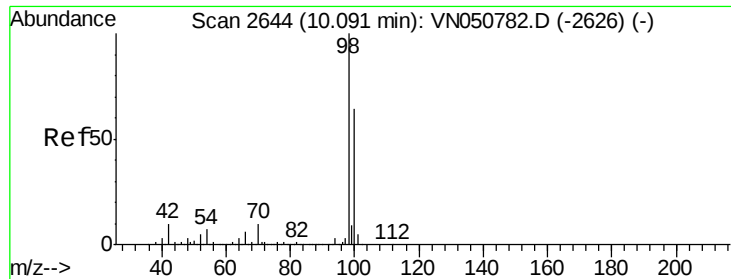
69 0.0 74.7 112.1#

39 9.4 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: 45.879 ug/l

RT: 10.09 min Scan# 2644

Delta R.T. -0.00 min

Lab File: VN050805.D

Acq: 22 Aug 2018 1:28

Instrument :

MSVOA_N

ClientSampleId :

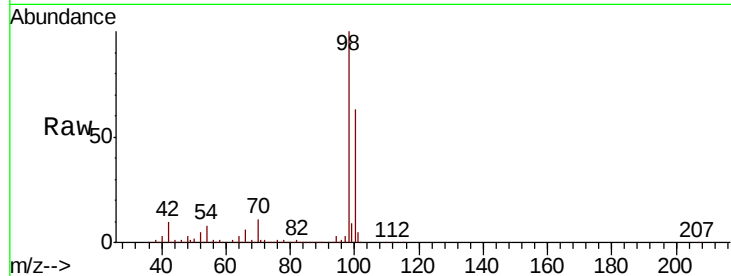
PB112227ZHE#11

Tot Ion: 98 Resp: 1434722

Ion Ratio Lower Upper

98 100

100 63.4 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

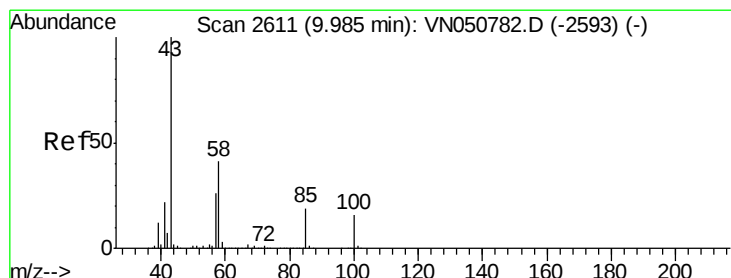
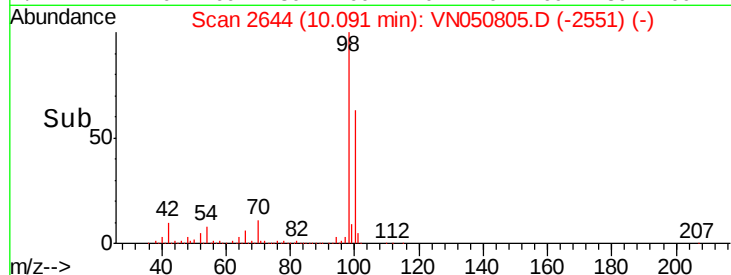
600000

400000

200000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 0.251 ug/l

RT: 9.99 min Scan# 2613

Delta R.T. 0.01 min

Lab File: VN050805.D

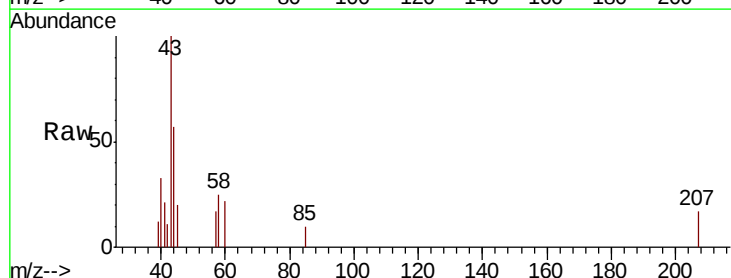
Acq: 22 Aug 2018 1:28

Tgt Ion: 43 Resp: 1832

Ion Ratio Lower Upper

43 100

58 36.7 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

2000

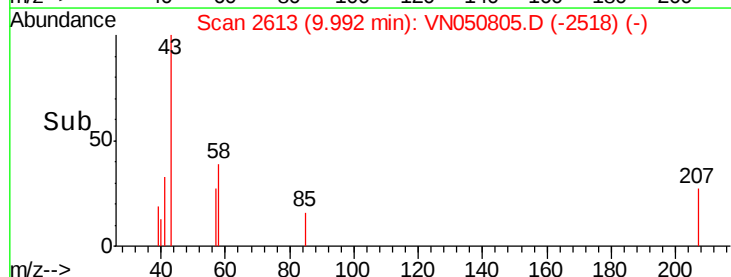
1500

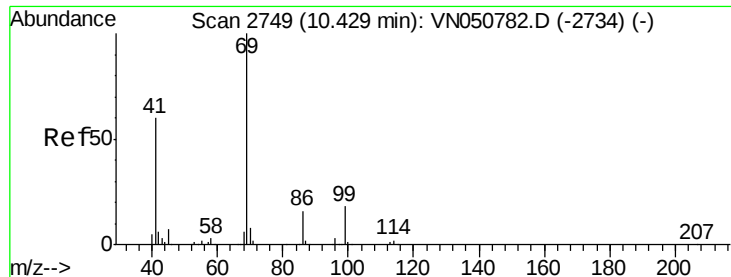
1000

500

0

Time-->





#56

Ethyl methacrylate

Concen: 2.580 ug/l

RT: 10.23 min Scan# 2686

Delta R.T. -0.20 min

Lab File: VN050805.D

Acq: 22 Aug 2018 1:28

Instrument :

MSVOA_N

ClientSampleId :

PB112227ZHE#11

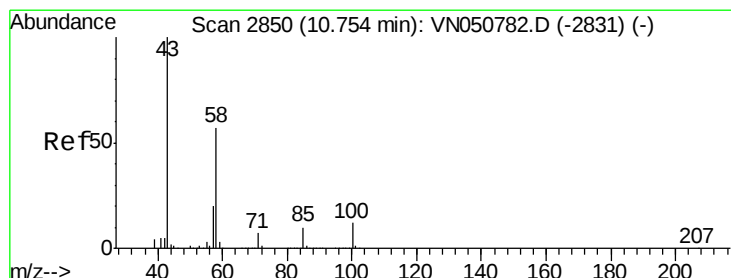
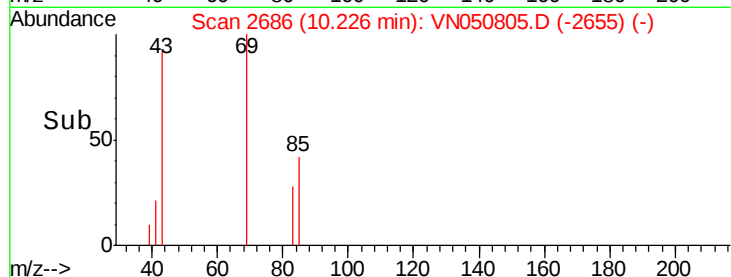
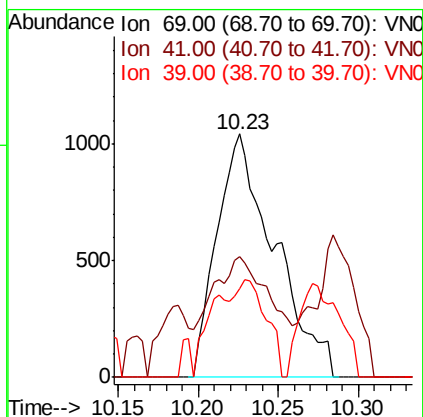
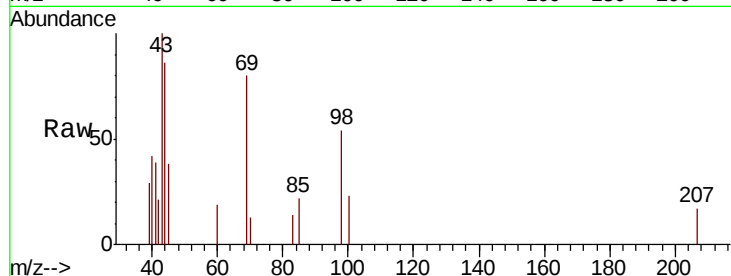
Tot Ion: 69 Resp: 2580

Ion Ratio Lower Upper

69 100

41 52.8 48.3 72.5

39 14.8 24.0 36.0#



#59

2-Hexanone

Concen: 3.640 ug/l

RT: 10.77 min Scan# 2854

Delta R.T. 0.01 min

Lab File: VN050805.D

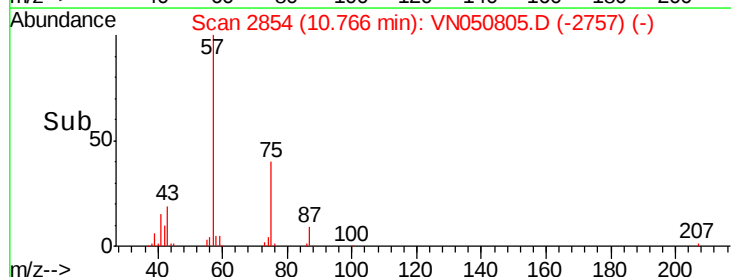
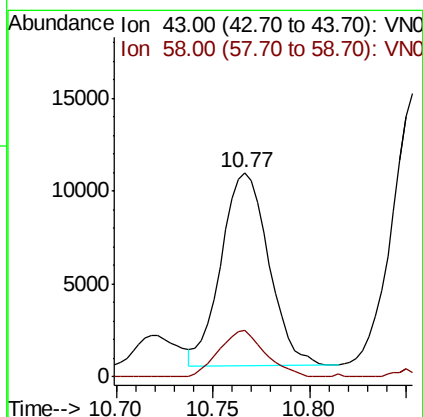
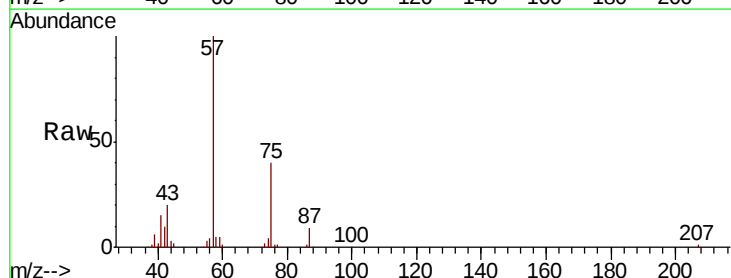
Acq: 22 Aug 2018 1:28

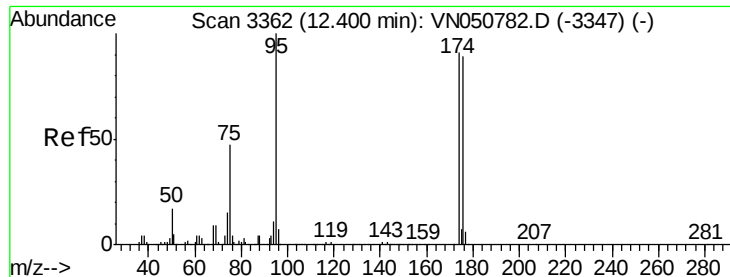
Tgt Ion: 43 Resp: 17719

Ion Ratio Lower Upper

43 100

58 23.6 28.3 85.0#





#62

4-Bromofluorobenzene

Concen: 35.456 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.00 min

Lab File: VN050805.D

Acq: 22 Aug 2018 1:28

Instrument :

MSVOA_N

ClientSampleId :

PB112227ZHE#11

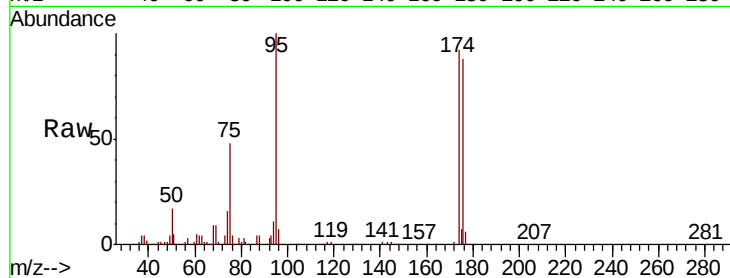
Tot Ion: 95 Resp: 368447

Ion Ratio Lower Upper

95 100

174 91.8 0.0 183.0

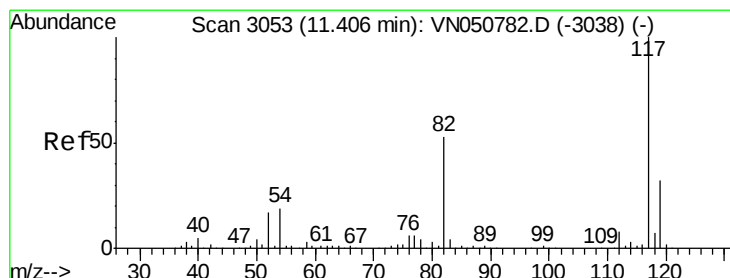
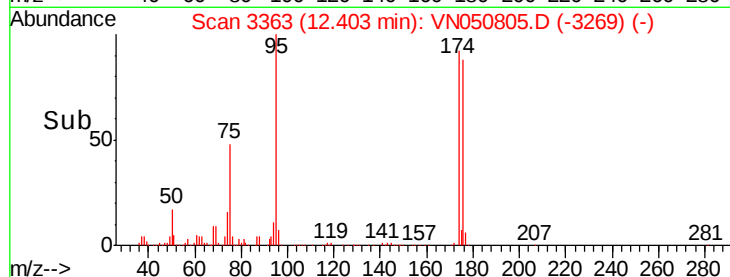
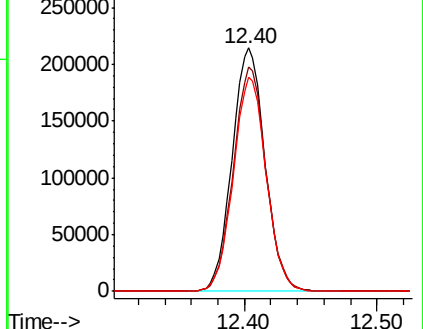
176 88.1 0.0 178.8



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: VN050805.D

Acq: 22 Aug 2018 1:28

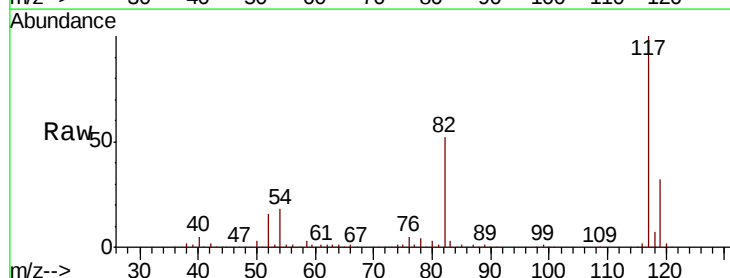
Tgt Ion: 117 Resp: 890588

Ion Ratio Lower Upper

117 100

82 51.8 42.6 64.0

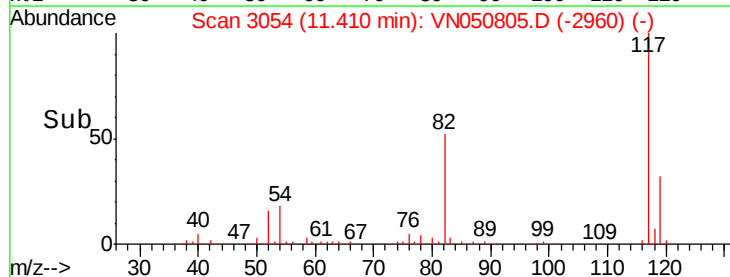
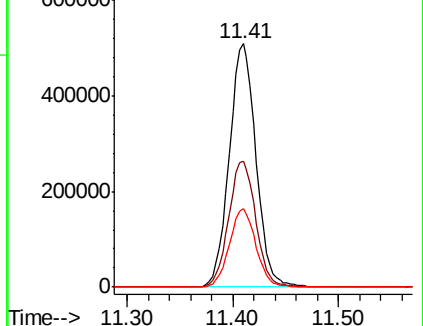
119 32.1 25.8 38.6

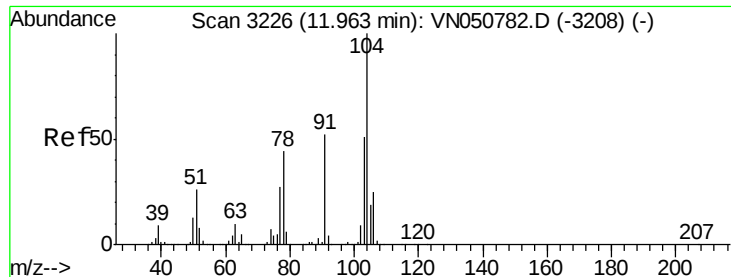


Abundance Ion 116.90 (116.60 to 117.60): VN050782.D (-3038) (-)

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: 1.278 ug/l

RT: 11.96 min Scan# 3226

Delta R.T. 0.00 min

Lab File: VN050805.D

Acq: 22 Aug 2018 1:28

Instrument :

MSVOA_N

ClientSampleId :

PB112227ZHE#11

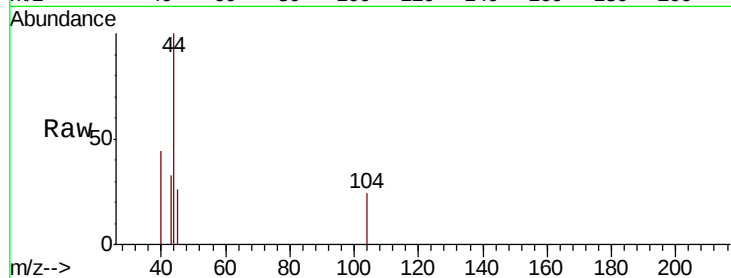
Tot Ion:104 Resp: 185

Ion Ratio Lower Upper

104 100

78 0.0 38.2 57.4#

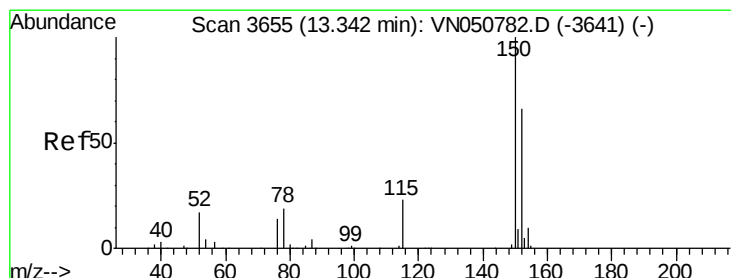
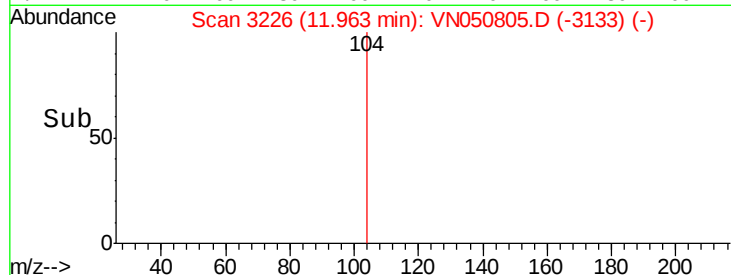
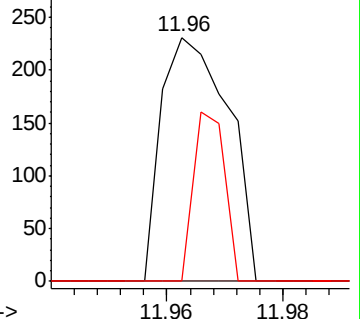
103 32.4 44.4 66.6#



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: VN050805.D

Acq: 22 Aug 2018 1:28

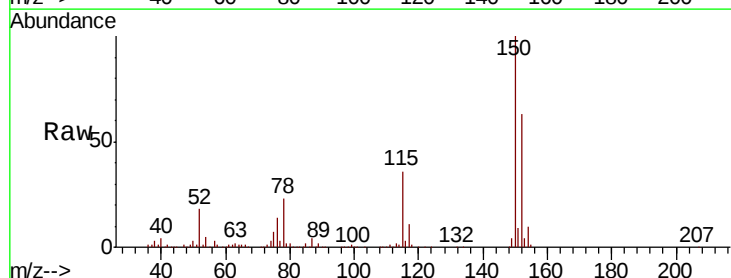
Tgt Ion:152 Resp: 275902

Ion Ratio Lower Upper

152 100

115 56.3 27.8 83.4

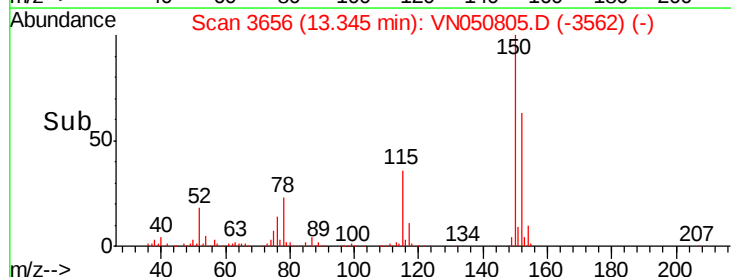
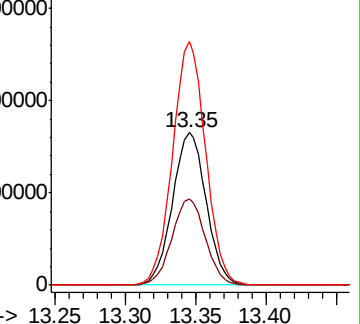
150 157.0 0.0 351.4

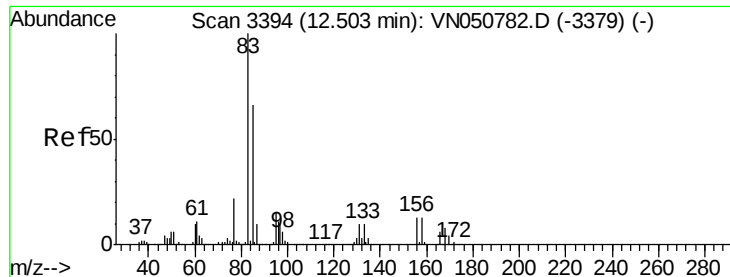


Abundance Ion 151.90 (151.60 to 152.60): V

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# 3363

Delta R.T. -0.10 min

Lab File: VN050805.D

Acq: 22 Aug 2018 1:28

Instrument :

MSVOA_N

ClientSampleId :

PB112227ZHE#11

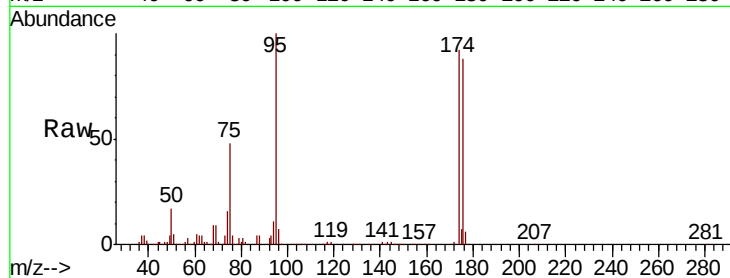
Tot Ion: 83 Resp: 157

Ion Ratio Lower Upper

83 100

131 229.3 5.3 15.9#

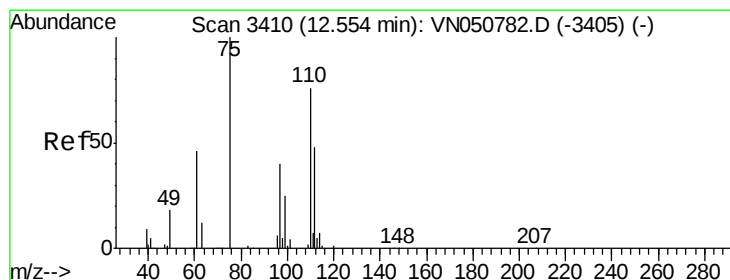
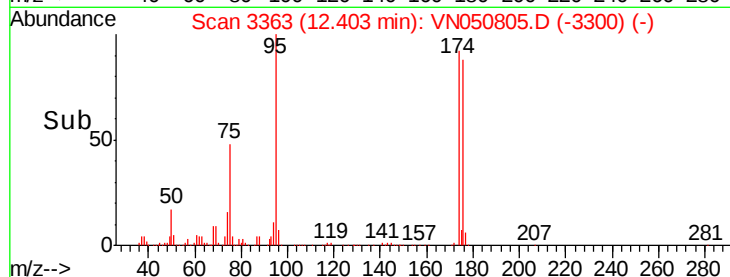
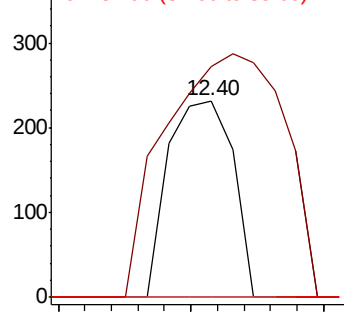
85 0.0 31.9 95.7#



Abundance Ion 82.90 (82.60 to 83.60): VN0

Ion 130.80 (130.50 to 131.50): VN0

Ion 84.90 (84.60 to 85.60): VN0



#76

1,2,3-Trichloropropane

Concen: 36.158 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.15 min

Lab File: VN050805.D

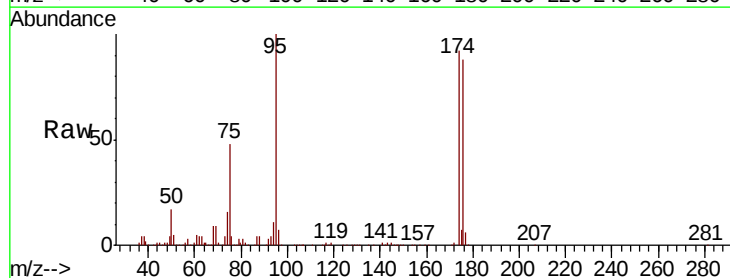
Acq: 22 Aug 2018 1:28

Tgt Ion: 75 Resp: 174733

Ion Ratio Lower Upper

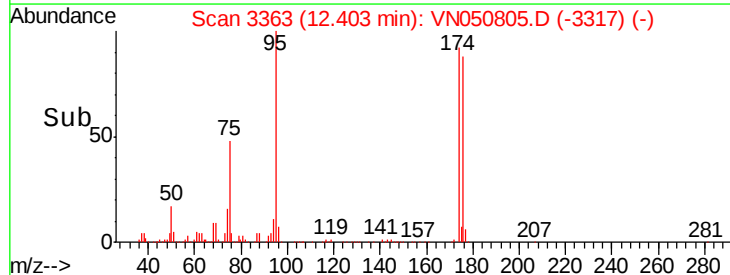
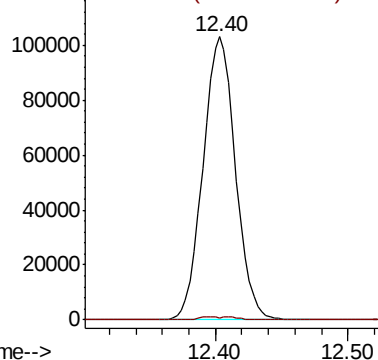
75 100

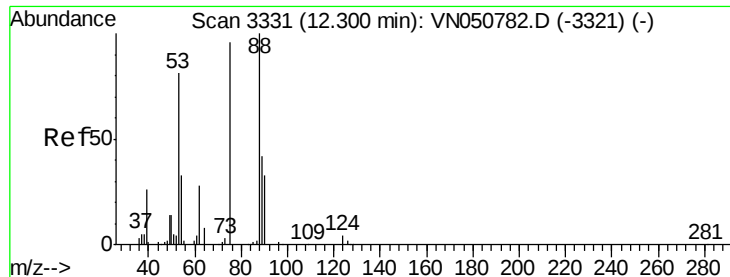
77 0.7 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

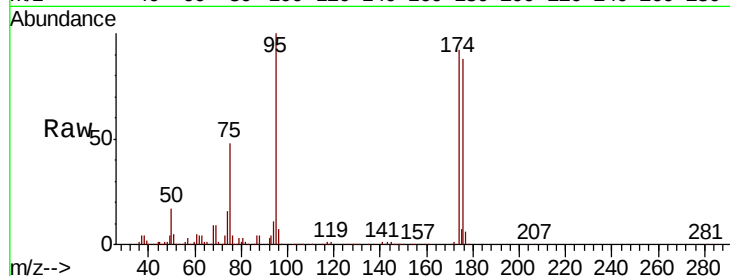




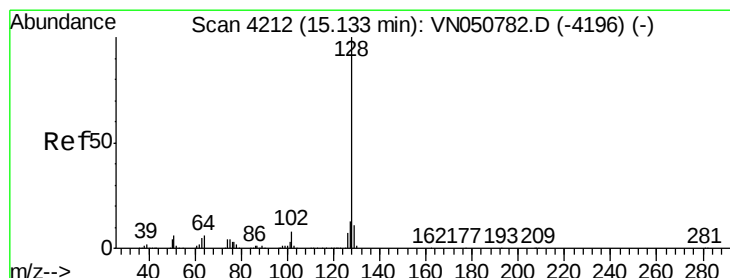
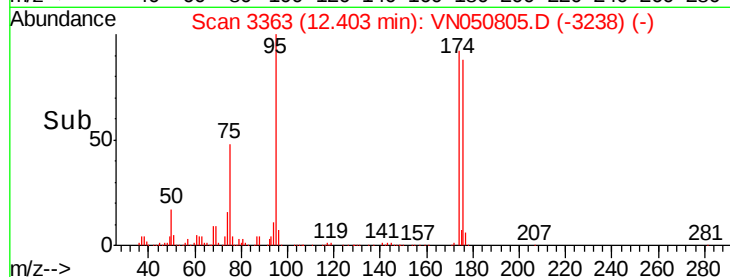
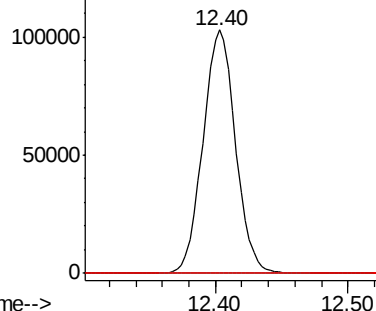
#81
trans-1,4-Dichloro-2-butene
Concen: 122.236 ug/l
RT: 12.40 min Scan# 3363
Delta R.T. 0.10 min
Lab File: VN050805.D
Acq: 22 Aug 2018 1:28

Instrument :
MSVOA_N
ClientSampleId :
PB112227ZHE#11

Tot Ion: 75 Resp: 174733
Ion Ratio Lower Upper
75 100
53 0.3 68.9 103.3#
89 0.0 36.1 54.1#

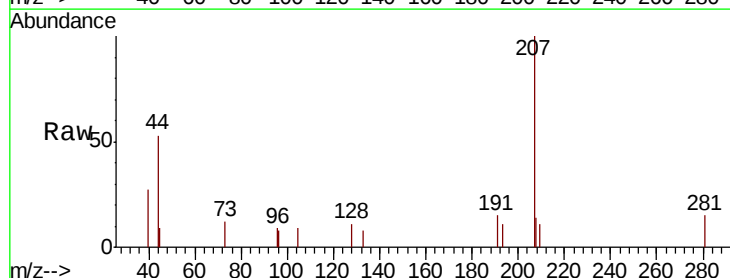


Abundance Ion 74.90 (74.60 to 75.60): VN0
Ion 53.00 (52.70 to 53.70): VN0
Ion 88.90 (88.60 to 89.60): VN0



#95
Naphthalene
Concen: 5.412 ug/l
RT: 15.14 min Scan# 4213
Delta R.T. 0.00 min
Lab File: VN050805.D
Acq: 22 Aug 2018 1:28

Tgt Ion: 128 Resp: 155
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

