

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN080118\
 Data File : VN050247.D
 Acq On : 1 Aug 2018 14:20
 Operator : MD\SY
 Sample : PB111649TB
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Aug 02 00:54:21 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N072418W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jul 26 18:10:10 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	693963	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1135488	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	963210	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	372502	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.03	65	485932	50.19	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.38%	
35) Dibromofluoromethane	7.59	113	430822	46.47	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.94%	
50) Toluene-d8	10.09	98	1541905	45.24	ug/l	0.00
Spiked Amount	50.000		Recovery	=	90.48%	
62) 4-Bromofluorobenzene	12.40	95	437929	39.02	ug/l	0.00
Spiked Amount	50.000		Recovery	=	78.04%	

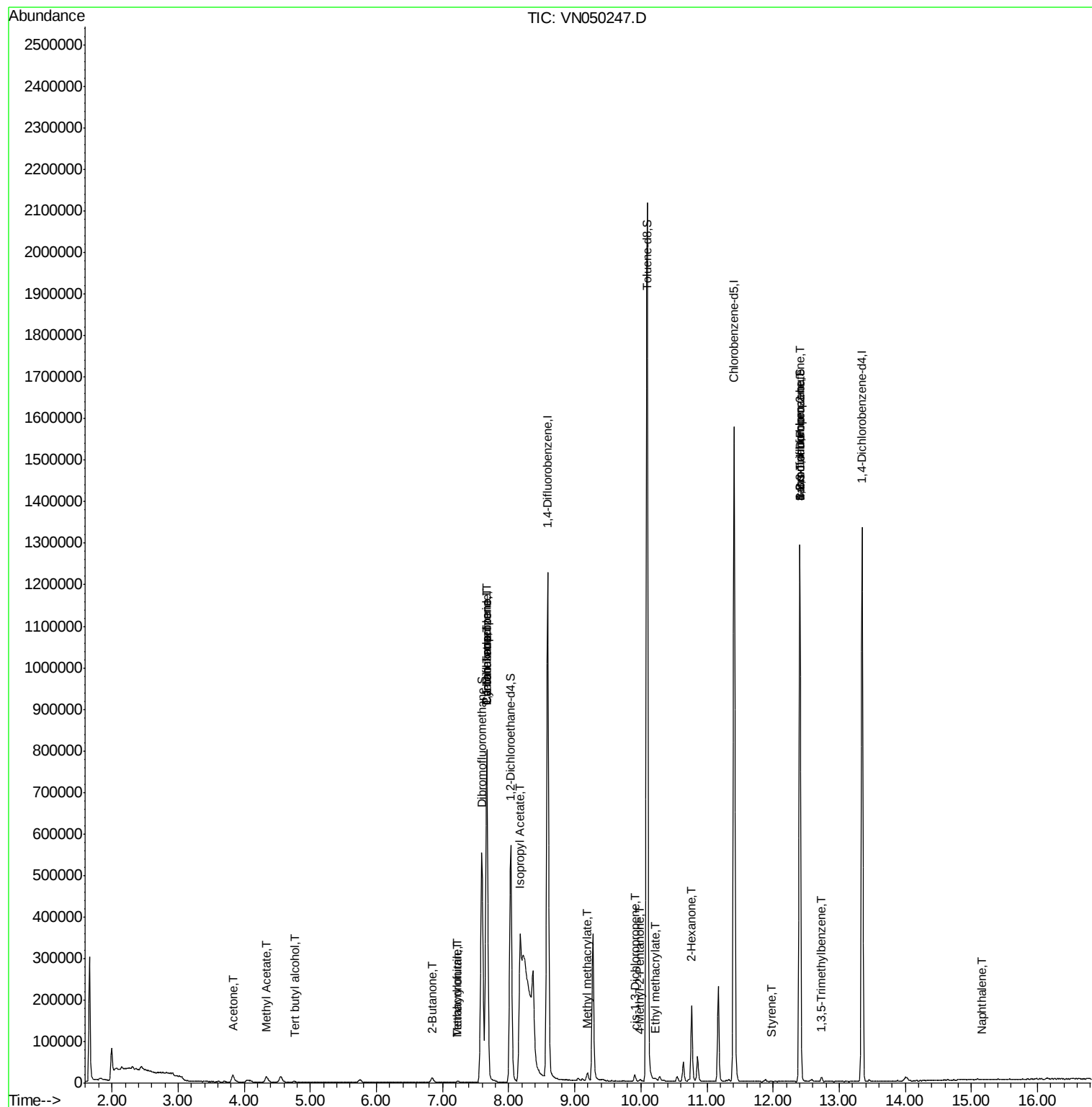
Target Compounds				Qvalue		
5) Bromomethane	2.56	94	454	Below Cal		94
11) Tert butyl alcohol	4.76	59	154	0.22 ug/l	#	72
16) Acetone	3.83	43	27316	7.77 ug/l		97
18) Methyl Acetate	4.33	43	26087	1.36 ug/l		93
20) Methylene Chloride	4.55	84	9585	Below Cal		92
25) 2-Butanone	6.85	43	3051	0.83 ug/l		97
29) Tetrahydrofuran	7.22	42	843	0.35 ug/l	#	78
31) Cyclohexane	7.67	56	13018	0.91 ug/l	#	1
36) 1,1-Dichloropropene	7.67	75	48420	3.78 ug/l	#	48
38) Carbon Tetrachloride	7.67	117	62950	4.64 ug/l	#	16
41) Methacrylonitrile	7.22	41	1250	3.00 ug/l	#	21
43) Isopropyl Acetate	8.17	43	496857	29.08 ug/l	#	87
48) Methyl methacrylate	9.18	41	10366	1.35 ug/l	#	22
51) 4-Methyl-2-Pentanone	9.99	43	3073	0.35 ug/l		94
54) cis-1,3-Dichloropropene	9.91	75	2926	0.20 ug/l	#	69
56) Ethyl methacrylate	10.23	69	3795	2.33 ug/l	#	73
59) 2-Hexanone	10.77	43	24381	8.88 ug/l	#	58
70) Styrene	11.97	104	227	0.93 ug/l	#	35
71) Bromoform	12.40	173	3831	0.56 ug/l	#	1
75) 1,1,2,2-Tetrachloroethane	12.39	83	404	Below Cal	#	1
76) 1,2,3-Trichloropropane	12.40	75	212647	30.72 ug/l	#	100
80) 1,3,5-Trimethylbenzene	12.73	105	4833	0.21 ug/l		93
81) trans-1,4-Dichloro-2-buten	12.40	75	212647	97.43 ug/l	#	13
92) 1,2-Dibromo-3-Chloropropan	14.26	75	168	Below Cal	#	1
95) Naphthalene	15.14	128	873	4.46 ug/l	#	69

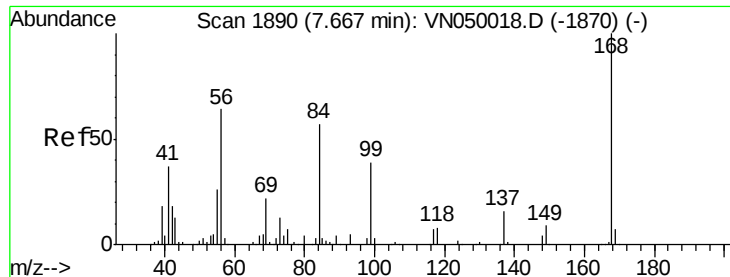
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Aug 02 00:54:21 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N072418W.M
Quant Title : SW846 8260
QLast Update : Thu Jul 26 18:10:10 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1891

Delta R.T. 0.00 min

Lab File: VN050247.D

Acq: 1 Aug 2018 14:20

Instrument :

MSVOA_N

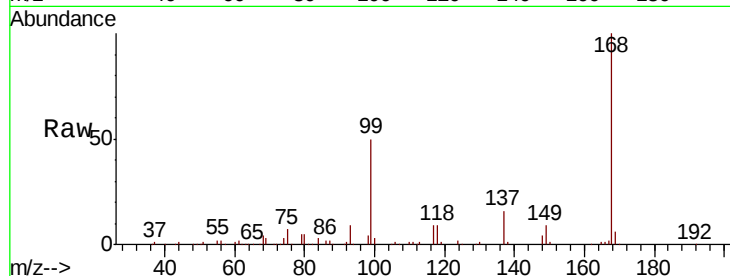
ClientSampleId :

Tot Ion:168 Resp: 693963

Ion Ratio Lower Upper

168 100

99 50.5 40.0 60.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

7.67

300000

200000

100000

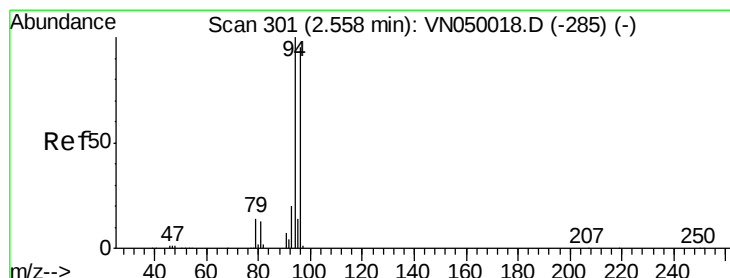
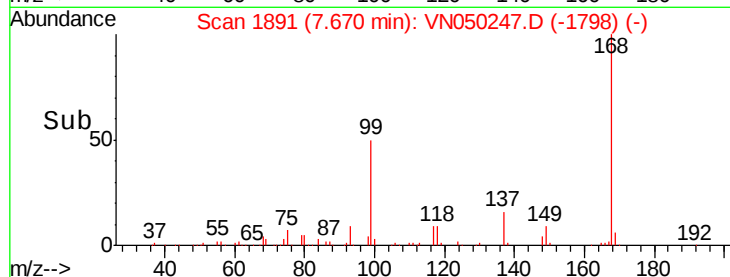
0

Time-->

7.60

7.70

7.80



#5

Bromomethane

Concen: Below Cal

RT: 2.56 min Scan# 301

Delta R.T. 0.01 min

Lab File: VN050247.D

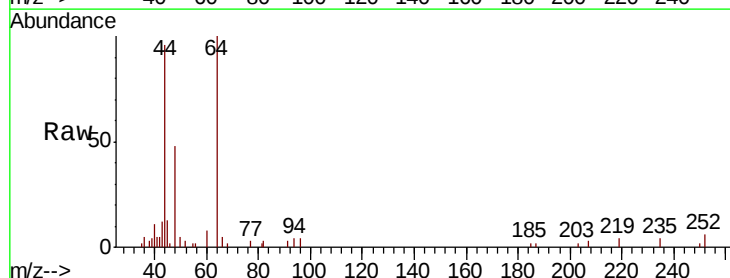
Acq: 1 Aug 2018 14:20

Tgt Ion: 94 Resp: 454

Ion Ratio Lower Upper

94 100

96 99.0 74.6 112.0



Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0

2.56

300

200

100

0

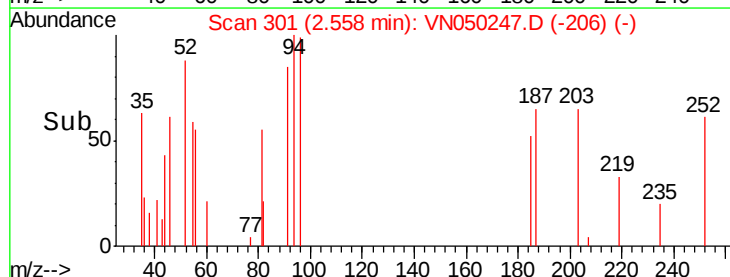
Time-->

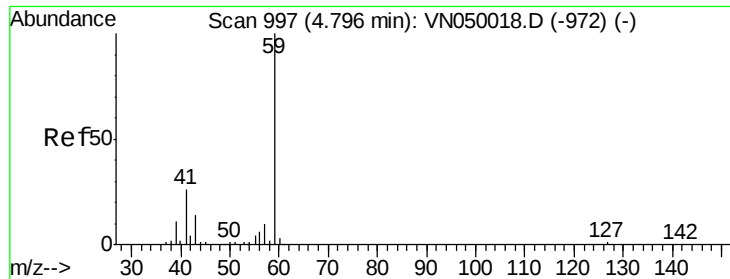
2.54

2.56

2.58

2.60

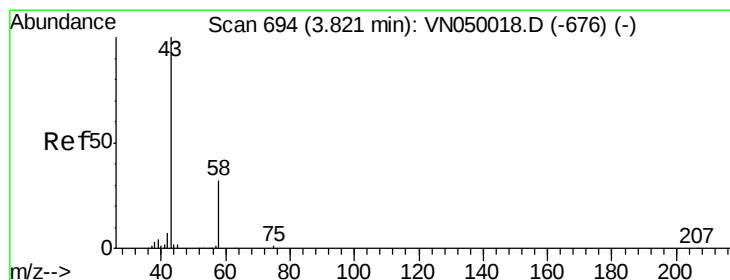
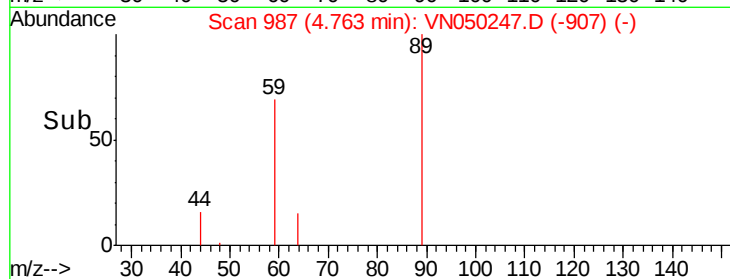
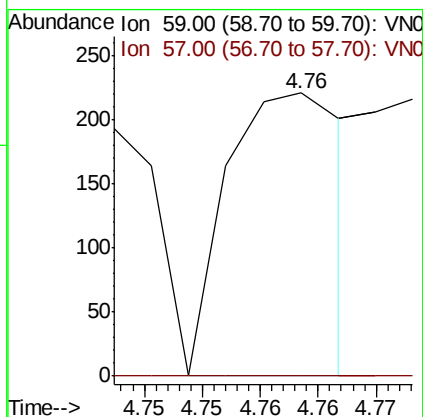
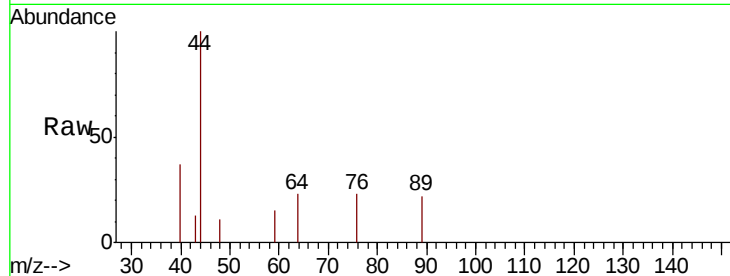




#11
Tert butyl alcohol
Concen: 0.22 ug/l
RT: 4.76 min Scan# 987
Delta R.T. -0.04 min
Lab File: VN050247.D
Acq: 1 Aug 2018 14:20

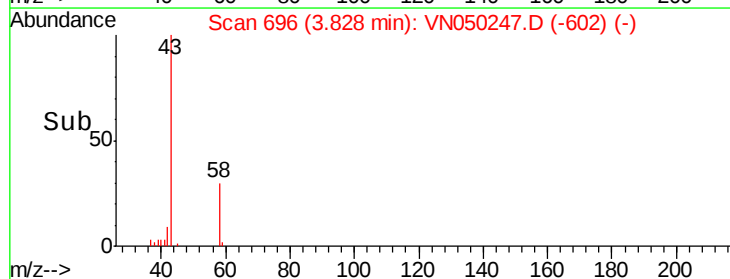
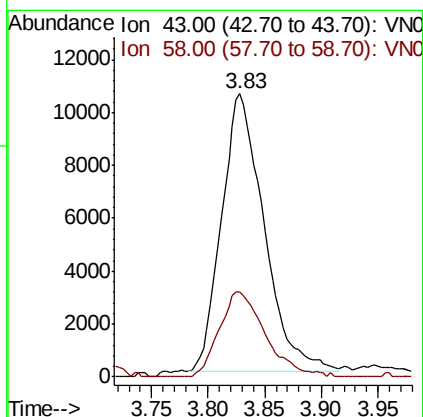
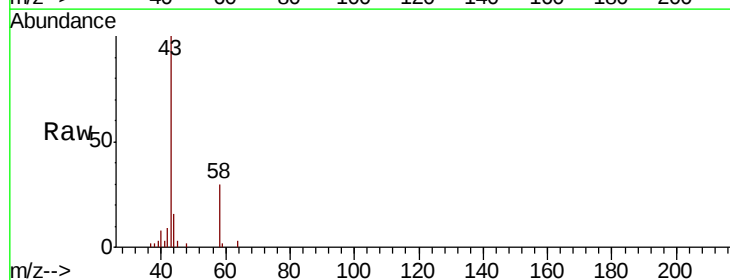
Instrument :
MSVOA_N
ClientSampled :

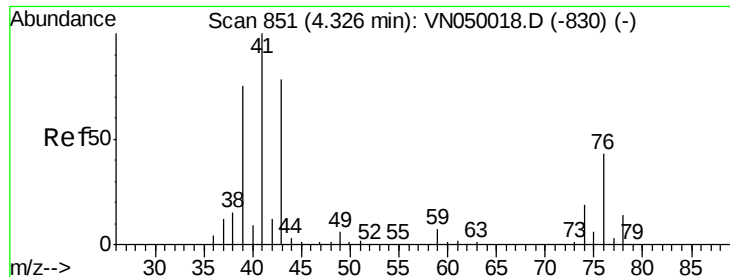
Tot Ion: 59 Resp: 154
Ion Ratio Lower Upper
59 100
57 0.0 8.5 12.7#



#16
Acetone
Concen: 7.77 ug/l
RT: 3.83 min Scan# 696
Delta R.T. 0.00 min
Lab File: VN050247.D
Acq: 1 Aug 2018 14:20

Tgt Ion: 43 Resp: 27316
Ion Ratio Lower Upper
43 100
58 30.4 25.8 38.8

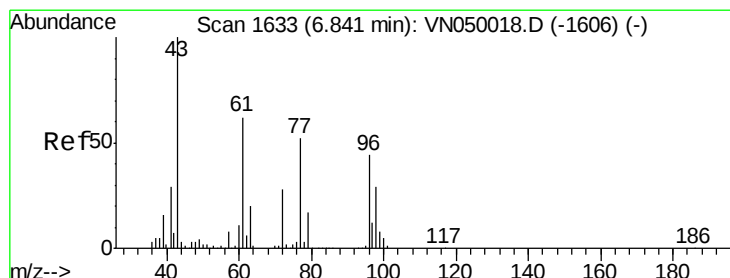
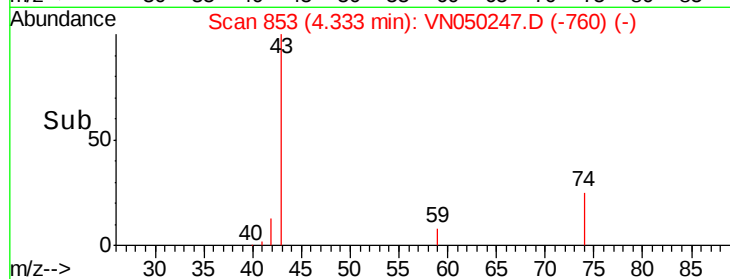
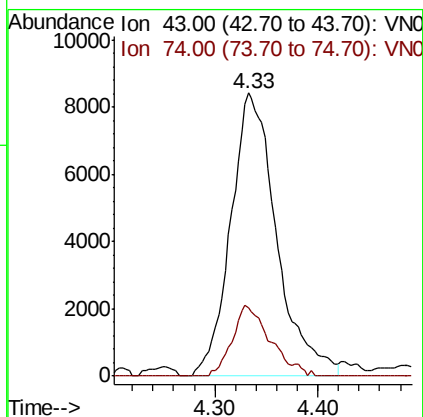
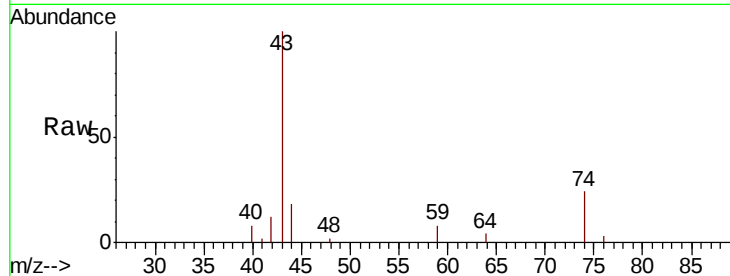




#18
Methyl Acetate
Concen: 1.36 ug/l
RT: 4.33 min Scan# 853
Delta R.T. 0.00 min
Lab File: VN050247.D
Acq: 1 Aug 2018 14:20

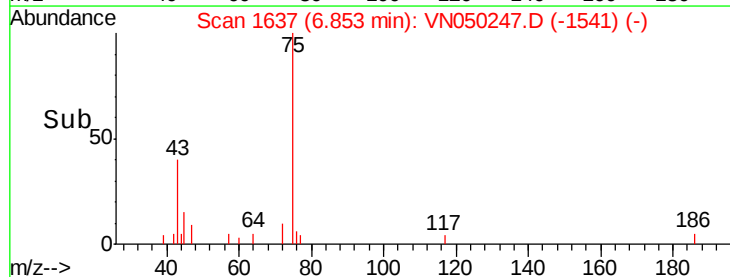
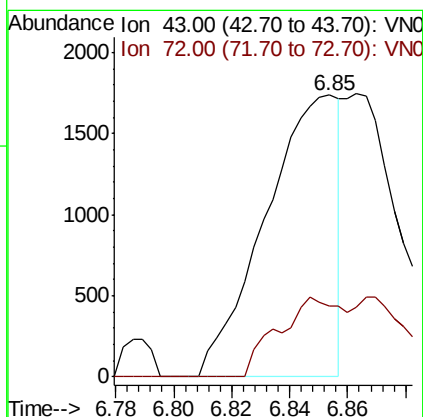
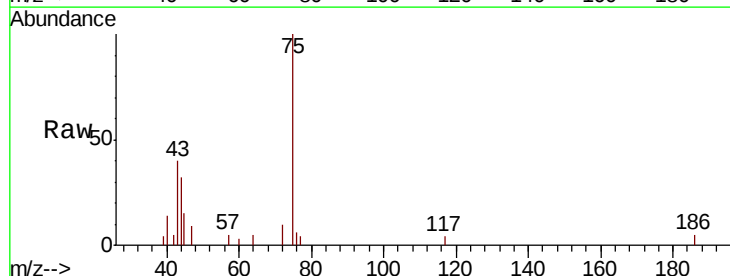
Instrument :
MSVOA_N
ClientSampled :

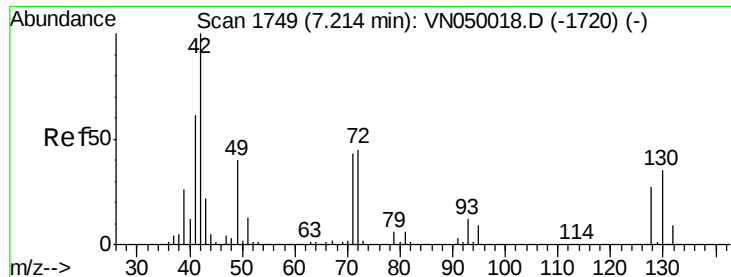
Tot Ion: 43 Resp: 26087
Ion Ratio Lower Upper
43 100
74 20.7 19.2 28.8



#25
2-Butanone
Concen: 0.83 ug/l
RT: 6.85 min Scan# 1637
Delta R.T. 0.01 min
Lab File: VN050247.D
Acq: 1 Aug 2018 14:20

Tgt Ion: 43 Resp: 3051
Ion Ratio Lower Upper
43 100
72 25.1 21.5 32.3





#29

Tetrahydrofuran

Concen: 0.35 ug/l

RT: 7.22 min Scan# 1751

Delta R.T. 0.00 min

Lab File: VN050247.D

Acq: 1 Aug 2018 14:20

Instrument :

MSVOA_N

ClientSampled :

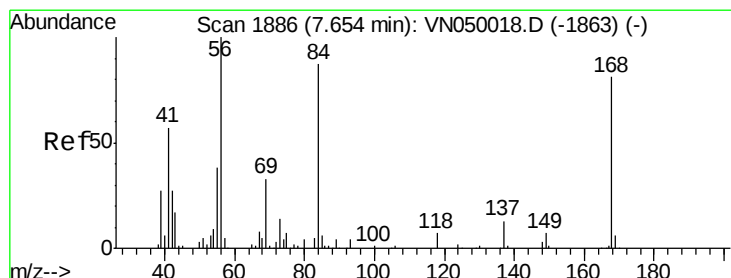
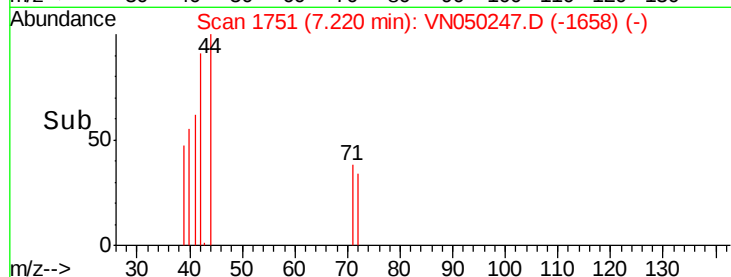
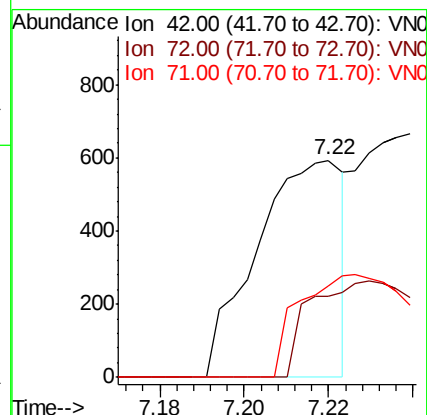
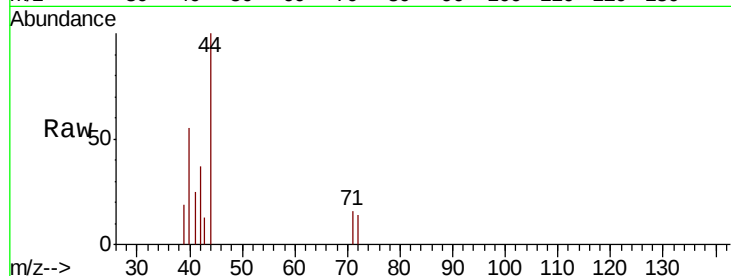
Tot Ion: 42 Resp: 843

Ion Ratio Lower Upper

42 100

72 56.6 35.9 53.9#

71 58.5 33.7 50.5#



#31

Cyclohexane

Concen: 0.91 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. 0.01 min

Lab File: VN050247.D

Acq: 1 Aug 2018 14:20

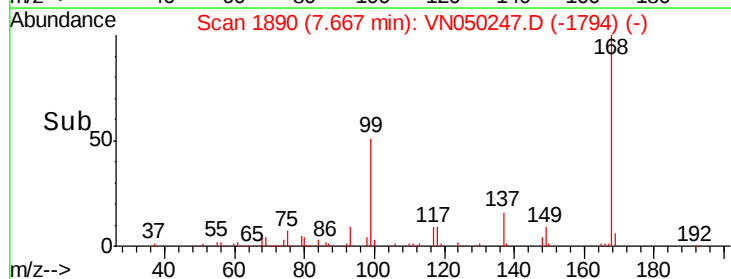
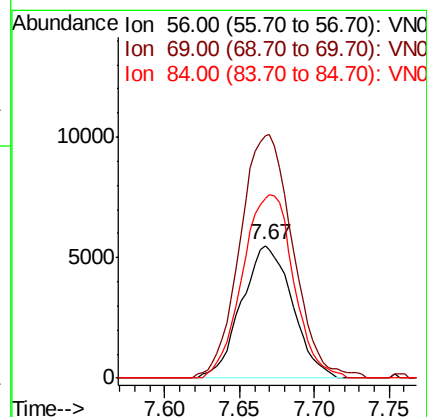
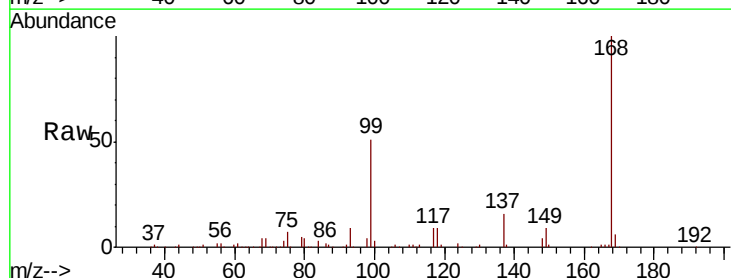
Tgt Ion: 56 Resp: 13018

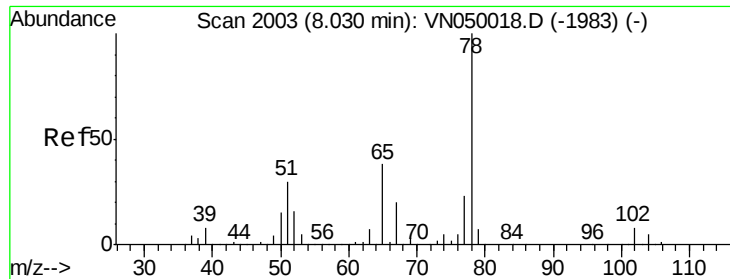
Ion Ratio Lower Upper

56 100

69 183.2 26.2 39.4#

84 135.3 67.4 101.0#

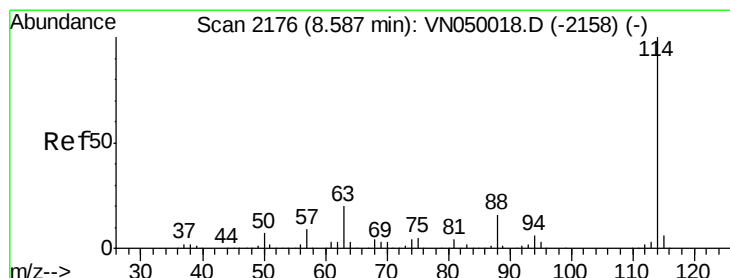
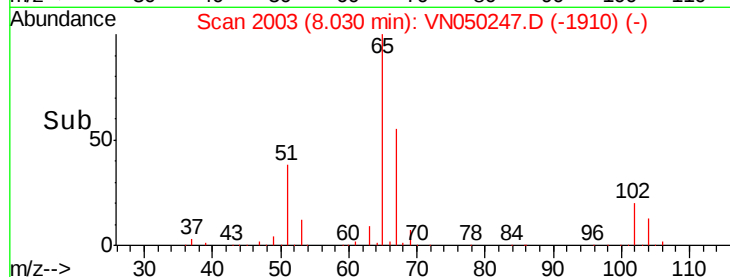
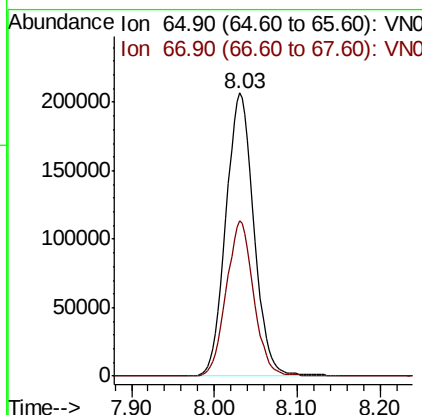
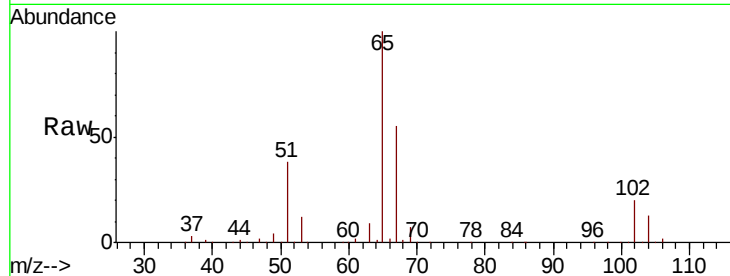




#33
 1,2-Dichloroethane-d4
 Concen: 50.19 ug/l
 RT: 8.03 min Scan# 2003
 Delta R.T. 0.00 min
 Lab File: VN050247.D
 Acq: 1 Aug 2018 14:20

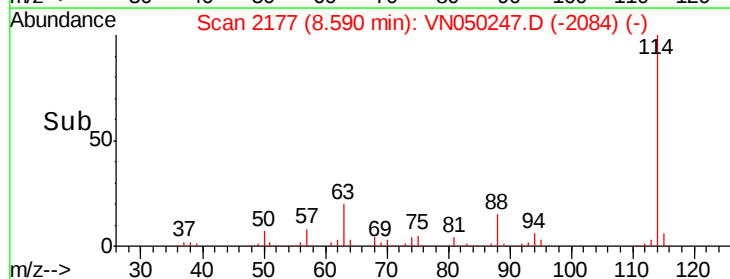
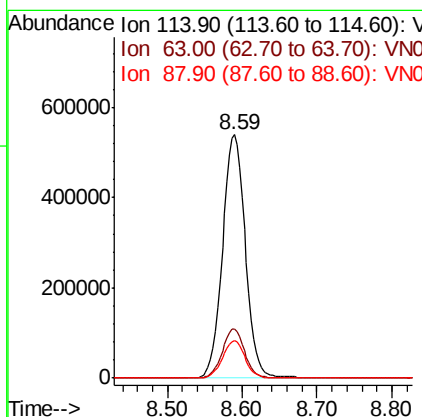
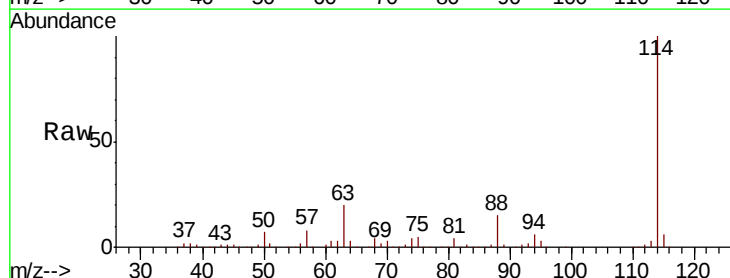
Instrument :
 MSVOA_N
 ClientSampled :

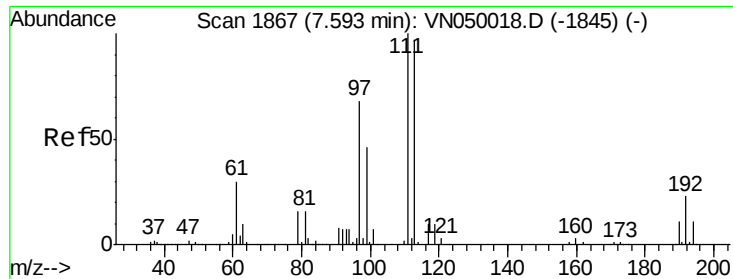
Tot Ion: 65 Resp: 485932
 Ion Ratio Lower Upper
 65 100
 67 53.5 0.0 108.4



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2177
 Delta R.T. 0.00 min
 Lab File: VN050247.D
 Acq: 1 Aug 2018 14:20

Tgt Ion: 114 Resp: 1135488
 Ion Ratio Lower Upper
 114 100
 63 20.2 0.0 40.0
 88 15.4 0.0 31.2

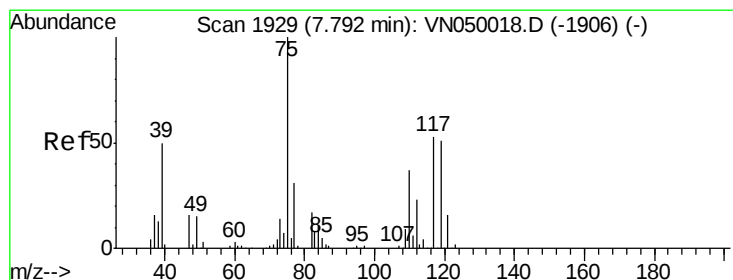
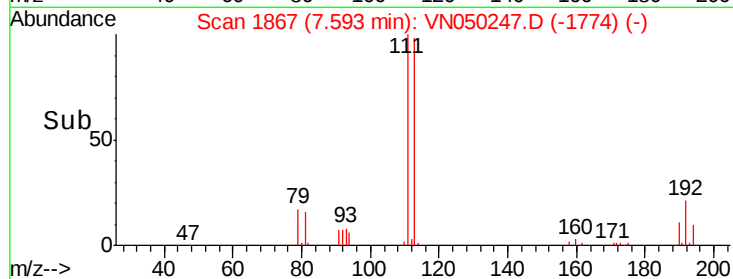
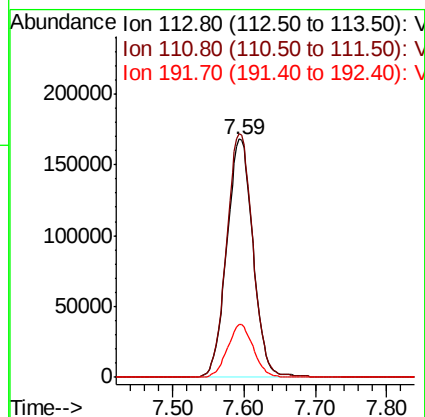
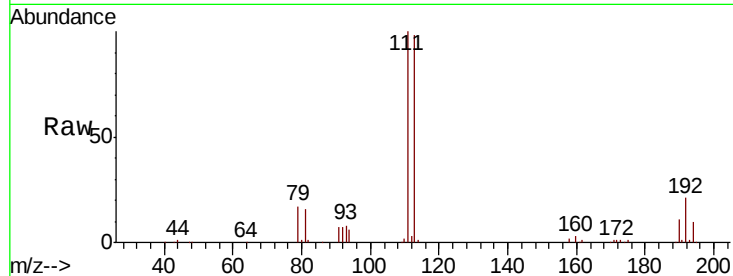




#35
 Dibromofluoromethane
 Concen: 46.47 ug/l
 RT: 7.59 min Scan# 1867
 Delta R.T. 0.00 min
 Lab File: VN050247.D
 Acq: 1 Aug 2018 14:20

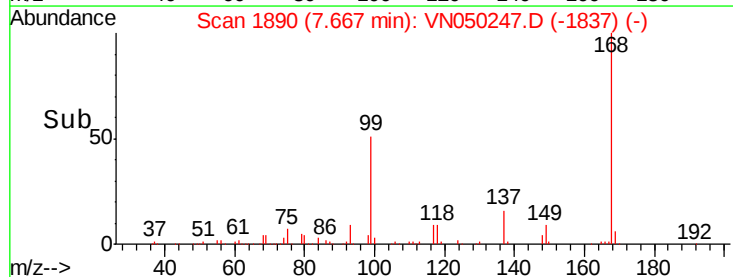
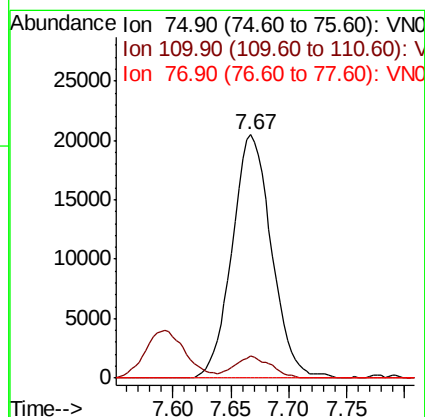
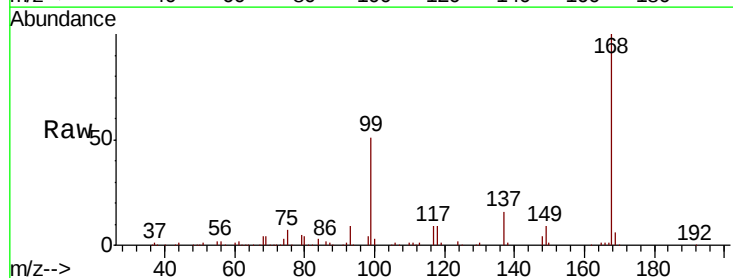
Instrument :
 MSVOA_N
 ClientSampleId :

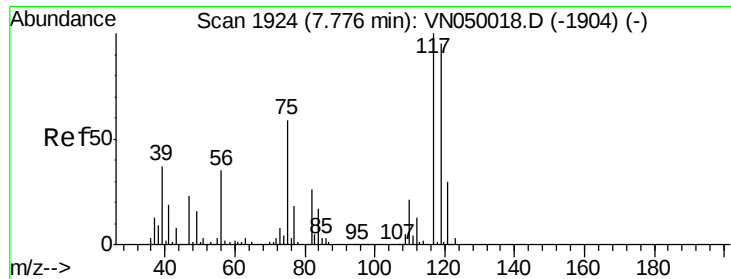
Tot Ion:113 Resp: 430822
 Ion Ratio Lower Upper
 113 100
 111 102.5 80.7 121.1
 192 21.9 17.8 26.6



#36
 1,1-Dichloropropene
 Concen: 3.78 ug/l
 RT: 7.67 min Scan# 1890
 Delta R.T. -0.13 min
 Lab File: VN050247.D
 Acq: 1 Aug 2018 14:20

Tgt Ion: 75 Resp: 48420
 Ion Ratio Lower Upper
 75 100
 110 8.3 18.4 55.2#
 77 0.0 25.3 37.9#





#38

Carbon Tetrachloride

Concen: 4.64 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. -0.11 min

Lab File: VN050247.D

Acq: 1 Aug 2018 14:20

Instrument :

MSVOA_N

ClientSampleId :

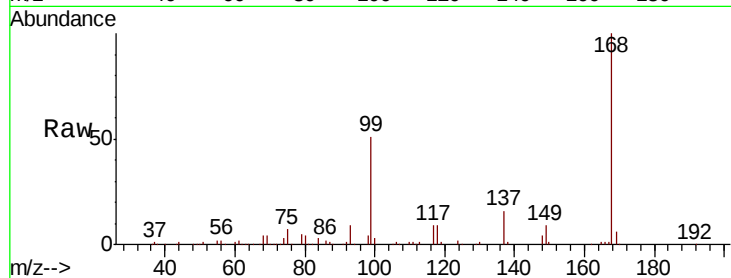
Tot Ion:117 Resp: 62950

Ion Ratio Lower Upper

117 100

119 5.9 77.4 116.0#

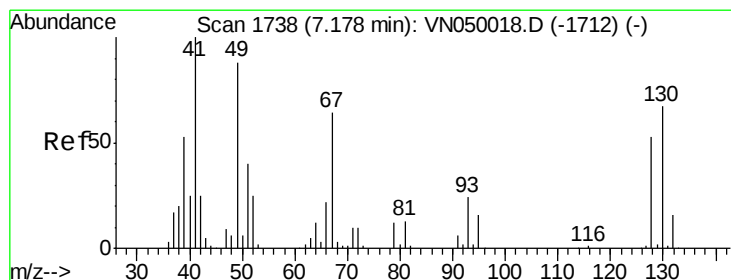
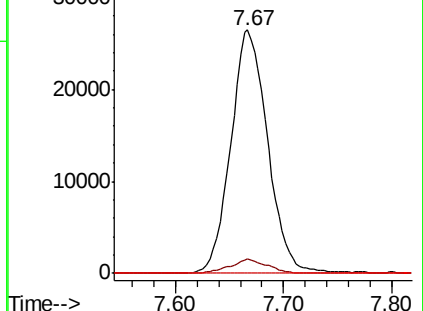
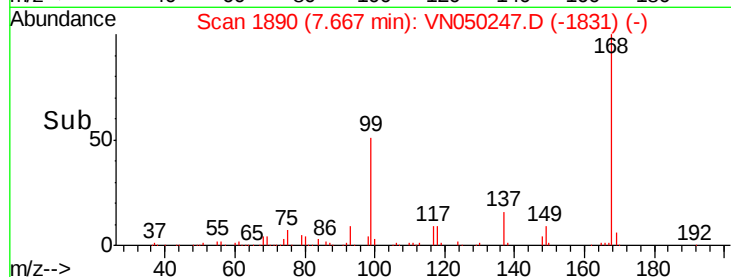
121 0.0 23.9 35.9#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#41

Methacrylonitrile

Concen: 3.00 ug/l

RT: 7.22 min Scan# 1752

Delta R.T. 0.05 min

Lab File: VN050247.D

Acq: 1 Aug 2018 14:20

Tgt Ion: 41 Resp: 1250

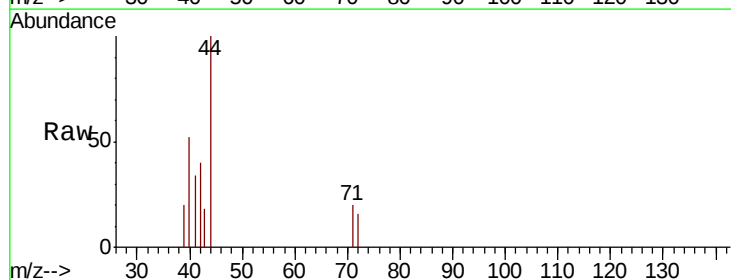
Ion Ratio Lower Upper

41 100

39 28.5 55.8 83.6#

67 0.0 84.3 126.5#

52 0.0 34.2 51.2#

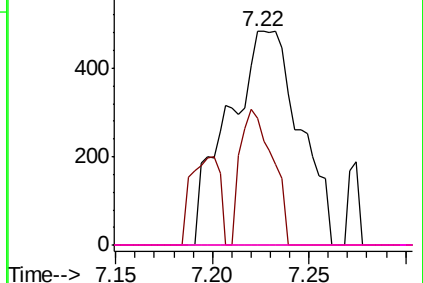
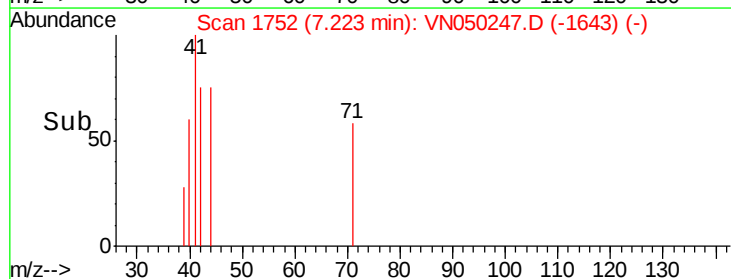


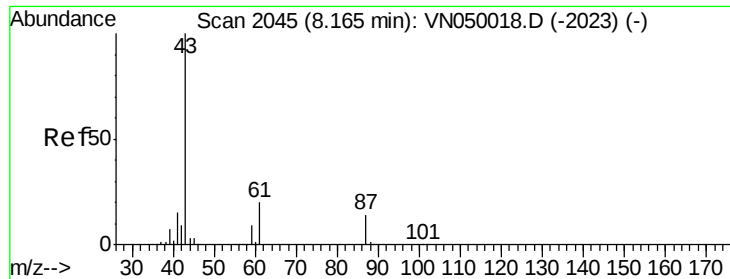
Abundance Ion 41.00 (40.70 to 41.70): V

Ion 39.00 (38.70 to 39.70): V

Ion 67.00 (66.70 to 67.70): V

Ion 52.00 (51.70 to 52.70): V



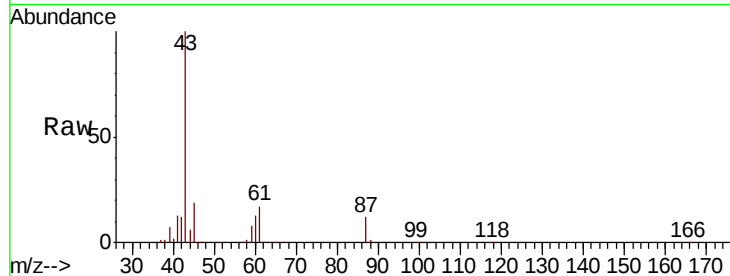


#43

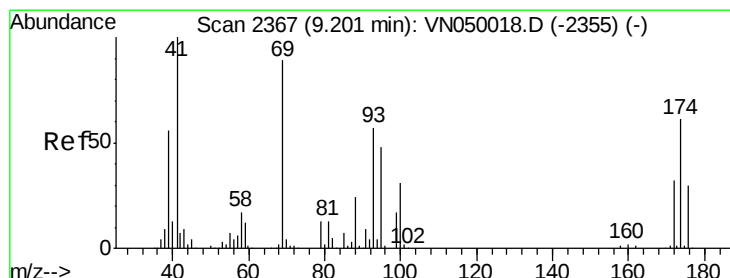
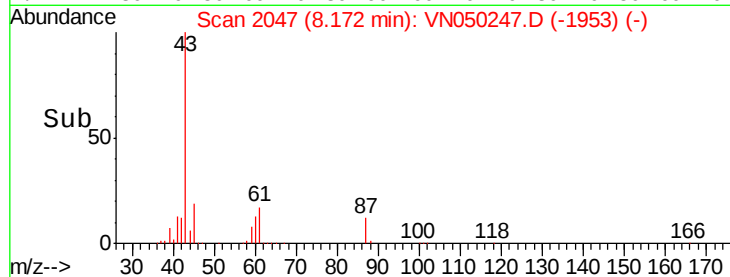
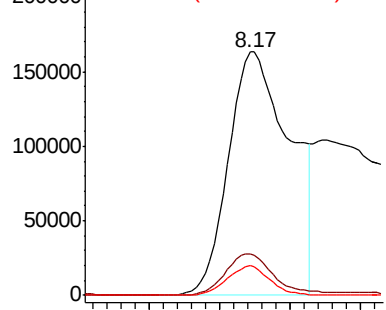
Isopropyl Acetate
 Concen: 29.08 ug/l
 RT: 8.17 min Scan# 2047
 Delta R.T. 0.00 min
 Lab File: VN050247.D
 Acq: 1 Aug 2018 14:20

Instrument :
 MSVOA_N
 ClientSampled :

Tot Ion	43	Resp	496857
Ion Ratio	100		
Lower	15.8		
Upper	23.6#		
61	13.4		
87	8.4		
	10.3		
	15.5#		



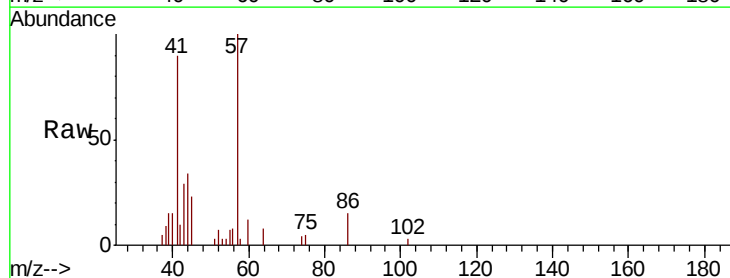
Abundance Ion 43.00 (42.70 to 43.70): VNO
 Ion 61.00 (60.70 to 61.70): VNO
 Ion 87.00 (86.70 to 87.70): VNO



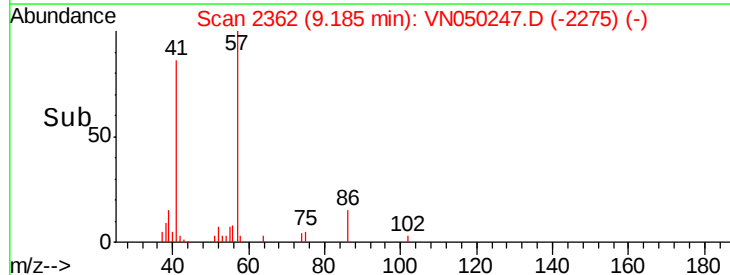
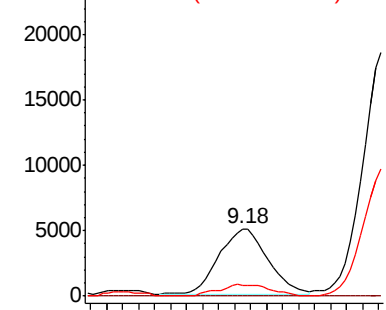
#48

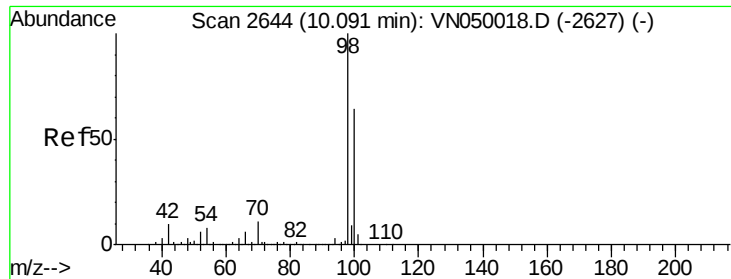
Methyl methacrylate
 Concen: 1.35 ug/l
 RT: 9.18 min Scan# 2362
 Delta R.T. -0.02 min
 Lab File: VN050247.D
 Acq: 1 Aug 2018 14:20

Tgt Ion	41	Resp	10366
Ion Ratio	100		
Lower	70.6		
Upper	105.8#		
69	0.0		
39	18.4		
	43.9		
	65.9#		



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

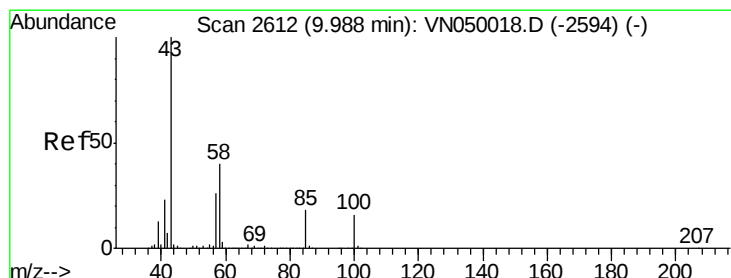
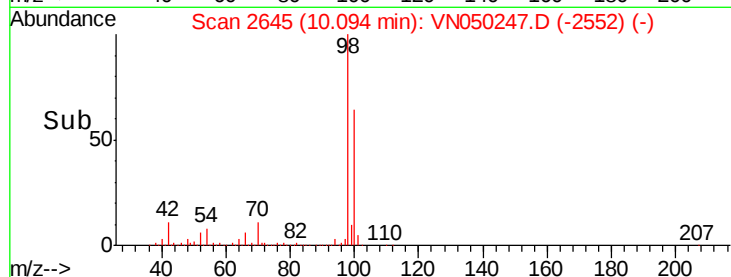
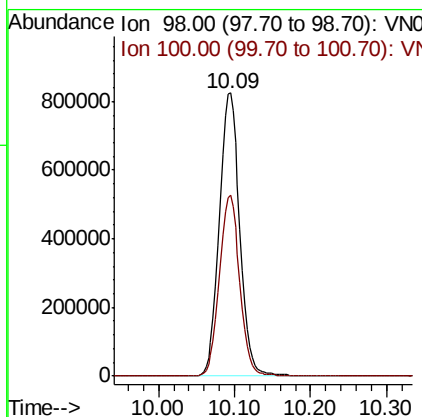
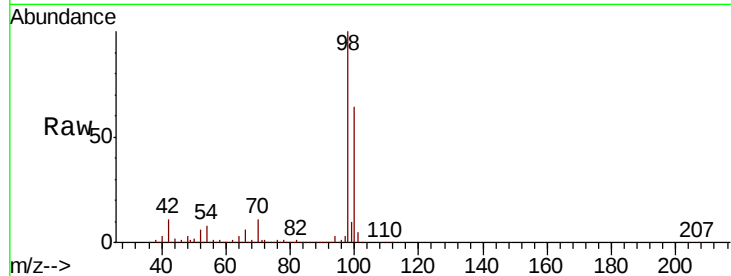




#50
Toluene-d8
Concen: 45.24 ug/l
RT: 10.09 min Scan# 2645
Delta R.T. 0.00 min
Lab File: VN050247.D
Acq: 1 Aug 2018 14:20

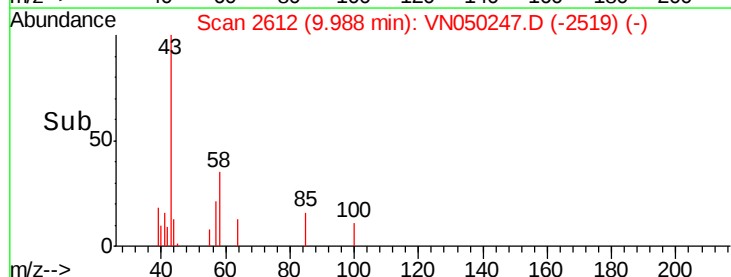
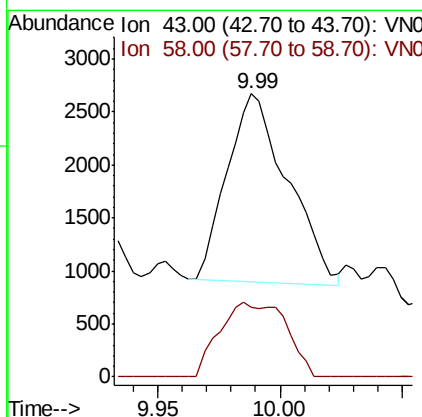
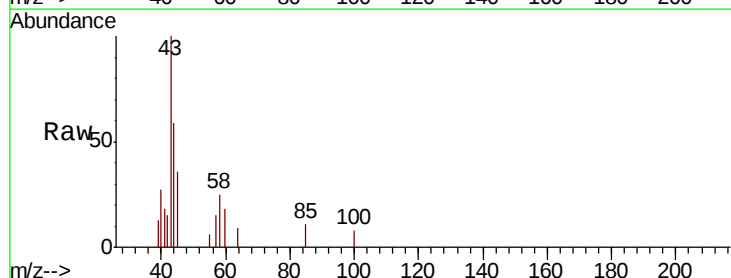
Instrument :
MSVOA_N
ClientSampled :

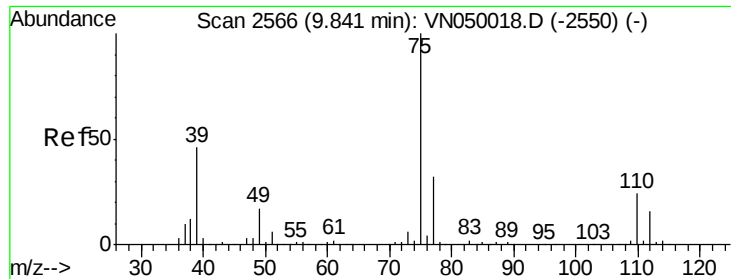
Tot Ion: 98 Resp: 1541905
Ion Ratio Lower Upper
98 100
100 63.6 50.7 76.1



#51
4-Methyl-2-Pentanone
Concen: 0.35 ug/l
RT: 9.99 min Scan# 2612
Delta R.T. 0.00 min
Lab File: VN050247.D
Acq: 1 Aug 2018 14:20

Tgt Ion: 43 Resp: 3073
Ion Ratio Lower Upper
43 100
58 43.3 31.9 47.9

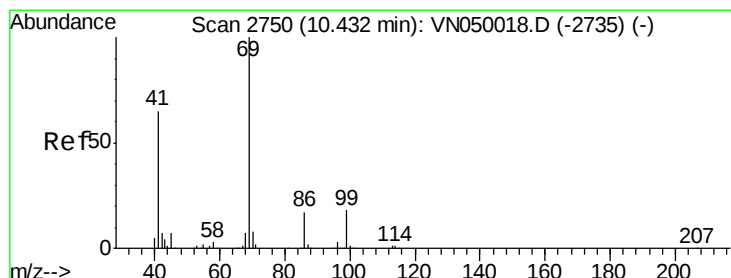
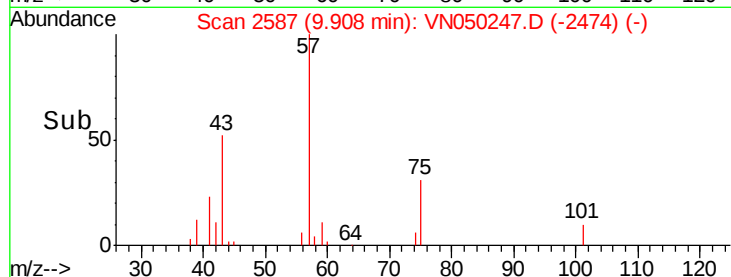
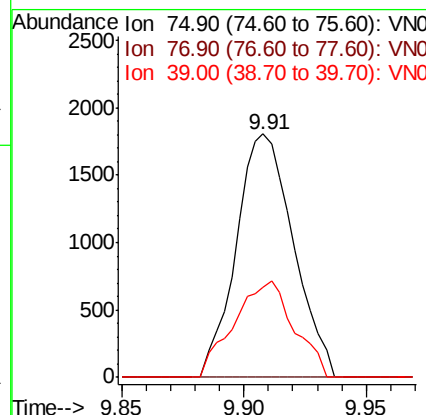
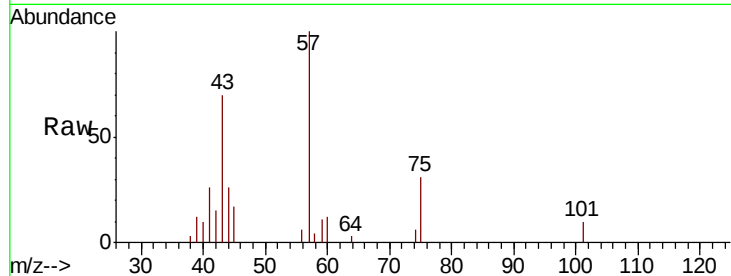




#54
 cis-1,3-Dichloropropene
 Concen: 0.20 ug/l
 RT: 9.91 min Scan# 2587
 Delta R.T. 0.06 min
 Lab File: VN050247.D
 Acq: 1 Aug 2018 14:20

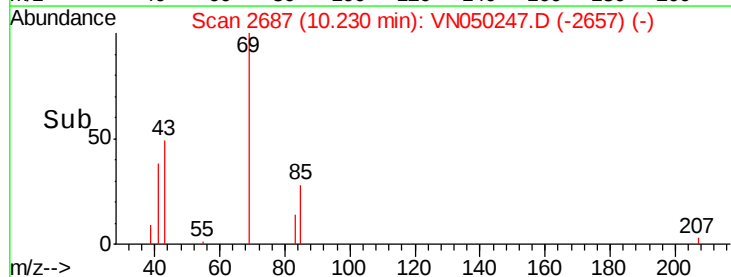
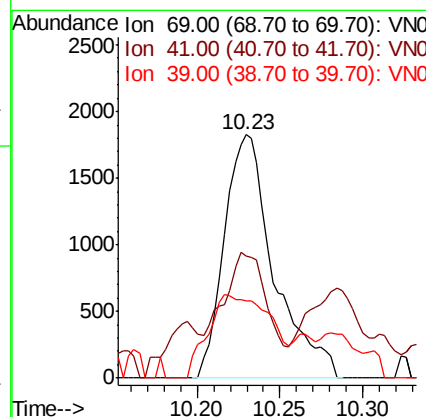
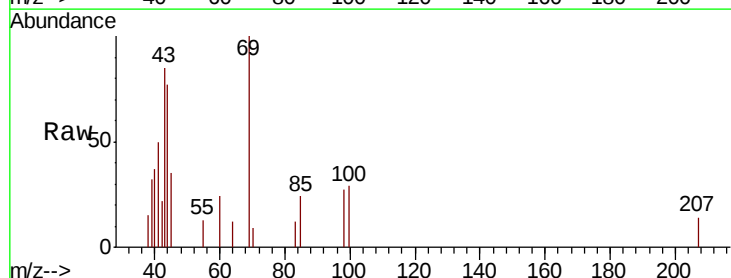
Instrument :
 MSVOA_N
 ClientSampled :

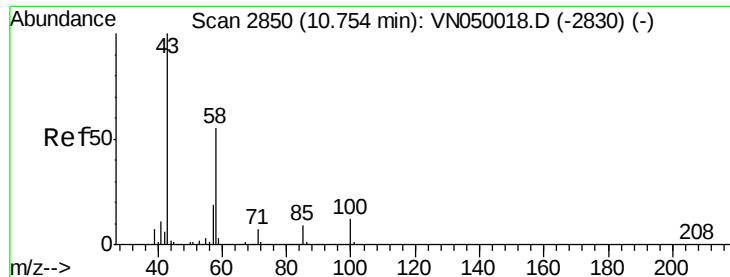
Tot Ion	Ratio	Lower	Upper
75	100		
77	0.0	25.5	38.3#
39	36.9	36.6	55.0



#56
 Ethyl methacrylate
 Concen: 2.33 ug/l
 RT: 10.23 min Scan# 2687
 Delta R.T. -0.20 min
 Lab File: VN050247.D
 Acq: 1 Aug 2018 14:20

Tgt Ion	Ratio	Lower	Upper
69	100		
41	38.2	51.0	76.4#
39	43.2	26.6	40.0#





#59

2-Hexanone

Concen: 8.88 ug/l

RT: 10.77 min Scan# 2854

Delta R.T. 0.01 min

Lab File: VN050247.D

Acq: 1 Aug 2018 14:20

Instrument :

MSVOA_N

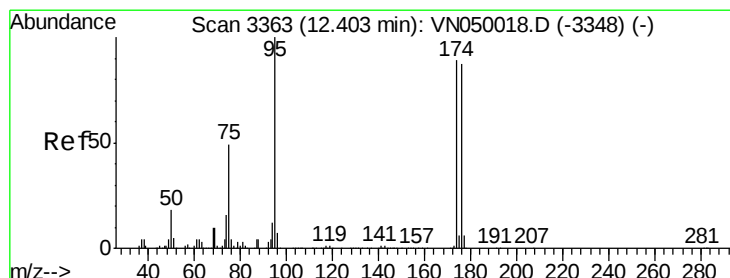
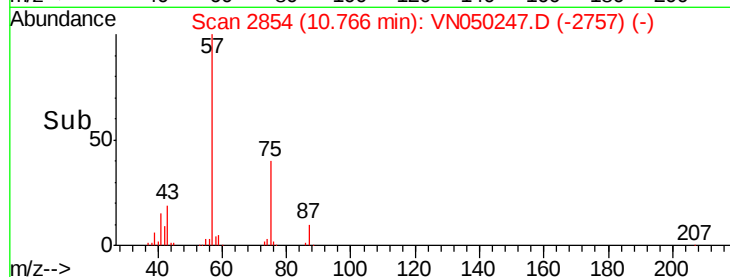
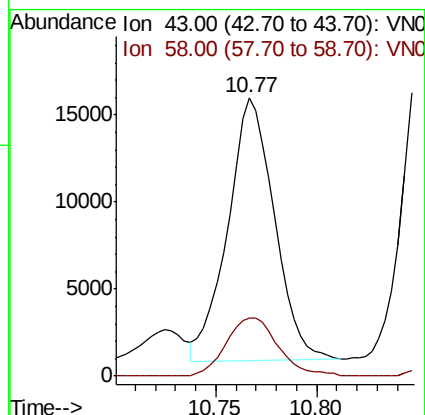
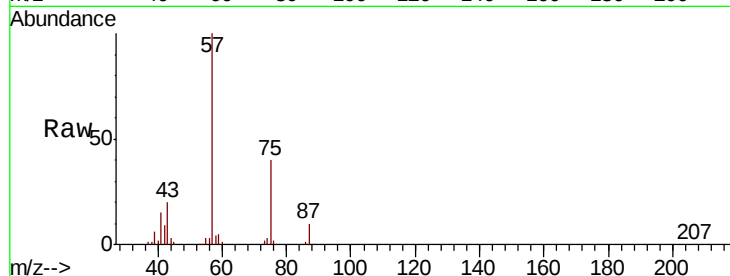
ClientSampleId :

Tot Ion: 43 Resp: 24381

Ion Ratio Lower Upper

43 100

58 24.8 27.6 82.7#



#62

4-Bromofluorobenzene

Concen: 39.02 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.00 min

Lab File: VN050247.D

Acq: 1 Aug 2018 14:20

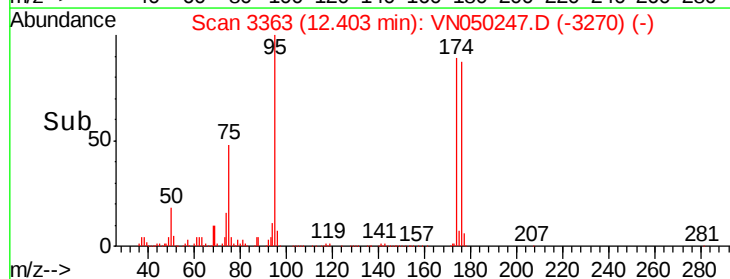
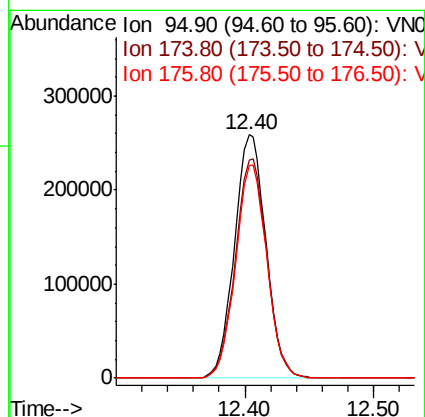
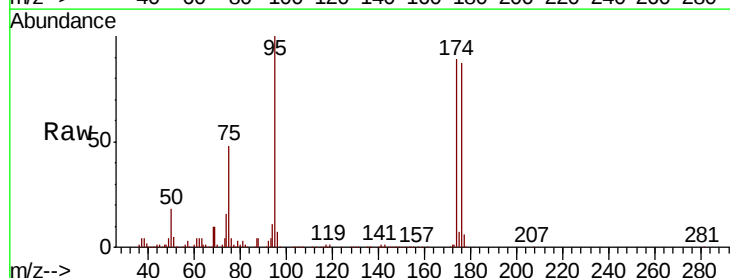
Tgt Ion: 95 Resp: 437929

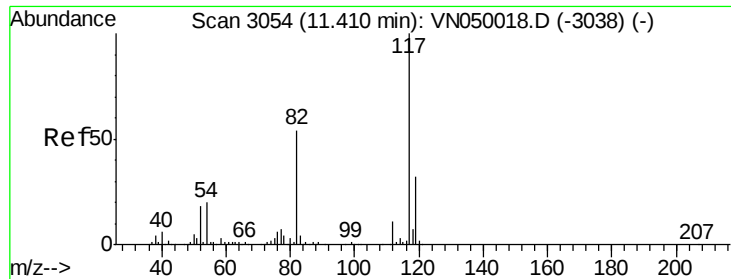
Ion Ratio Lower Upper

95 100

174 90.6 0.0 178.2

176 87.2 0.0 173.4

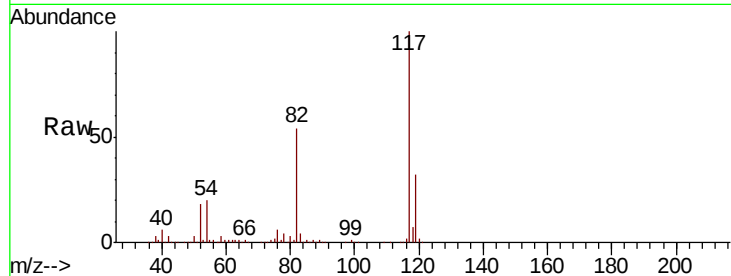




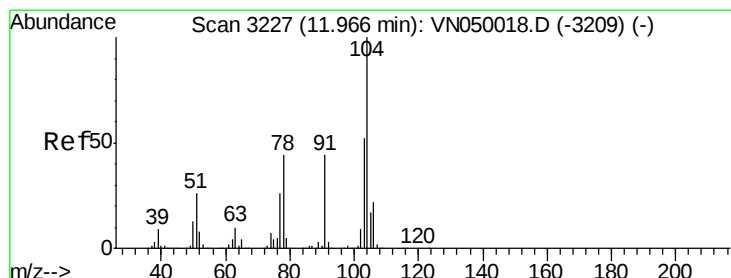
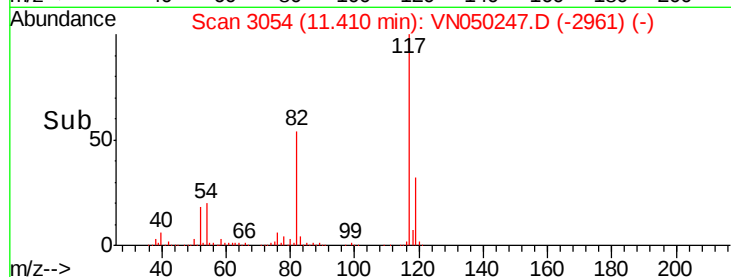
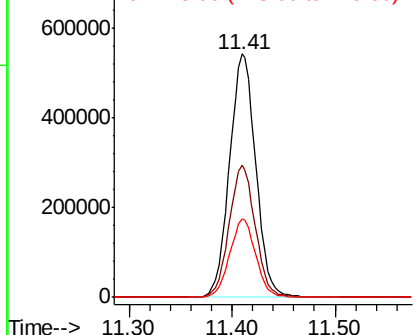
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. 0.00 min
Lab File: VN050247.D
Acq: 1 Aug 2018 14:20

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:117 Resp: 963210
Ion Ratio Lower Upper
117 100
82 54.3 43.7 65.5
119 32.4 26.1 39.1

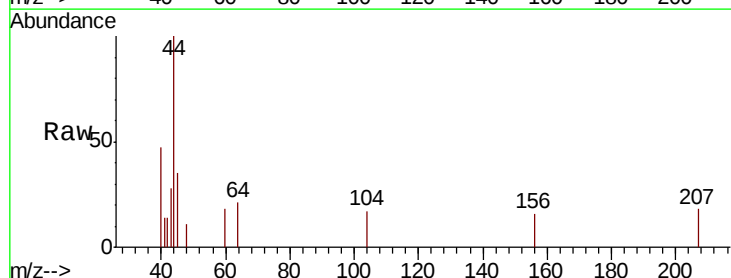


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VNO
Ion 118.90 (118.60 to 119.60): V

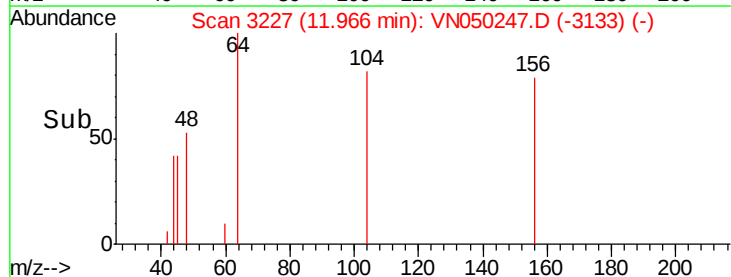
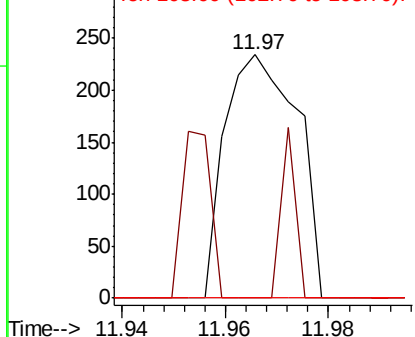


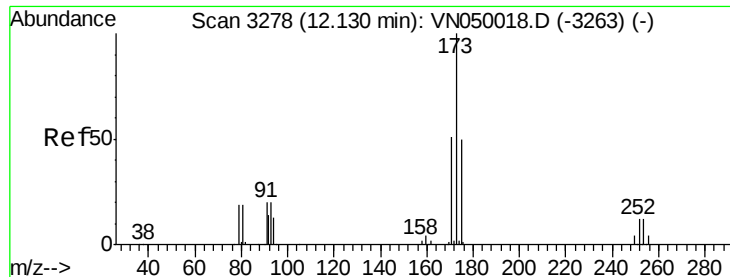
#70
Styrene
Concen: 0.93 ug/l
RT: 11.97 min Scan# 3227
Delta R.T. 0.00 min
Lab File: VN050247.D
Acq: 1 Aug 2018 14:20

Tgt Ion:104 Resp: 227
Ion Ratio Lower Upper
104 100
78 14.1 39.3 58.9#
103 0.0 45.0 67.6#



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





#71

Bromoform

Concen: 0.56 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.27 min

Lab File: VN050247.D

Acq: 1 Aug 2018 14:20

Instrument :

MSVOA_N

ClientSampled :

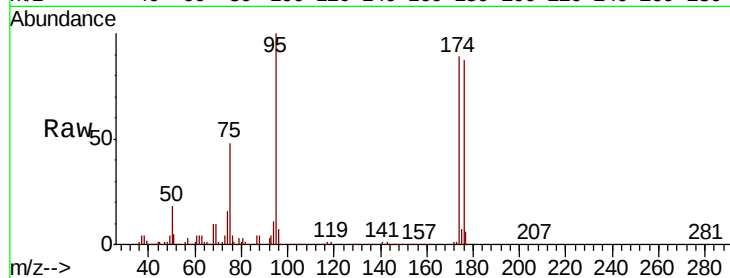
Tot Ion:173 Resp: 3831

Ion Ratio Lower Upper

173 100

175 669.4 24.1 72.2#

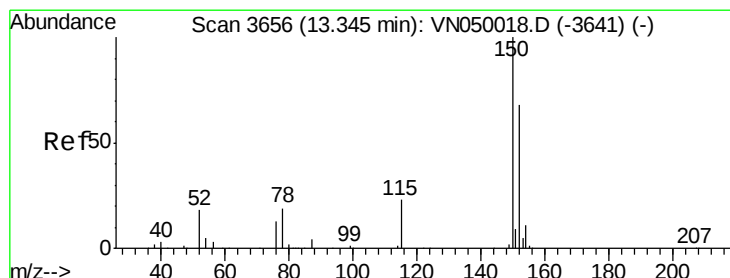
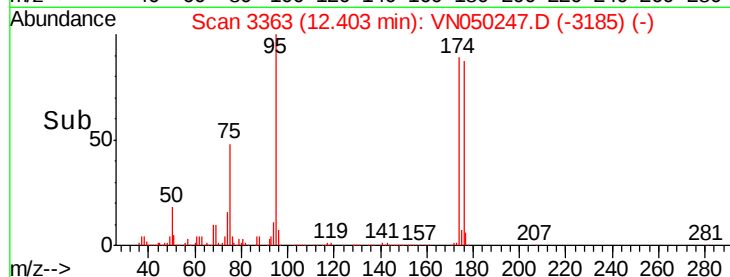
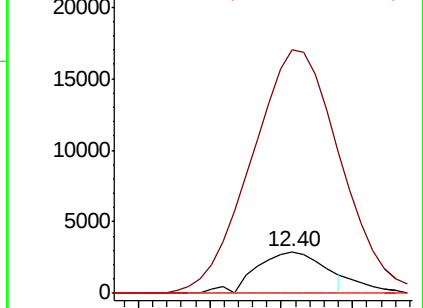
254 0.0 0.2 0.2#



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: 50.00 ug/l

RT: 13.35 min Scan# 3656

Delta R.T. 0.00 min

Lab File: VN050247.D

Acq: 1 Aug 2018 14:20

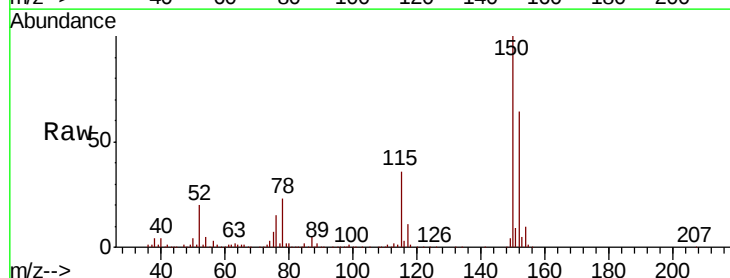
Tgt Ion:152 Resp: 372502

Ion Ratio Lower Upper

152 100

115 55.8 27.8 83.3

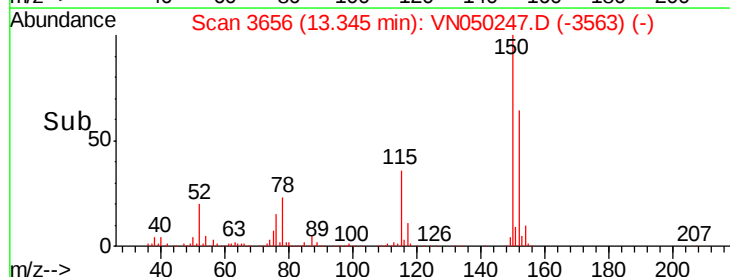
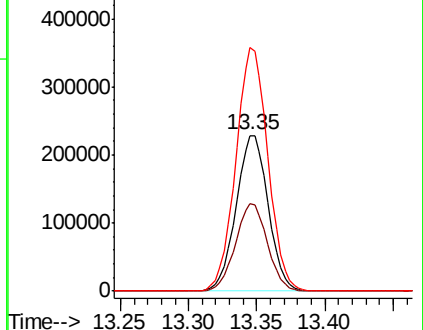
150 156.0 0.0 348.6

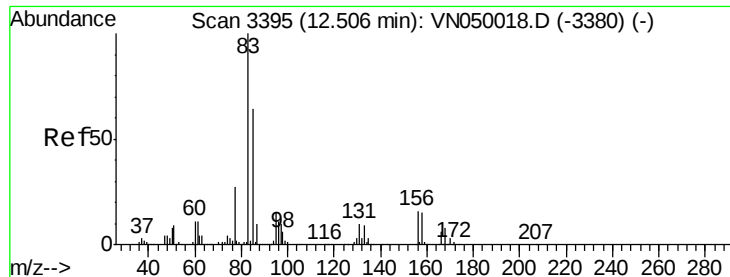


Abundance Ion 151.90 (151.60 to 152.60): V

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: VN050247.D

Acq: 1 Aug 2018 14:20

Instrument :

MSVOA_N

ClientSampleId :

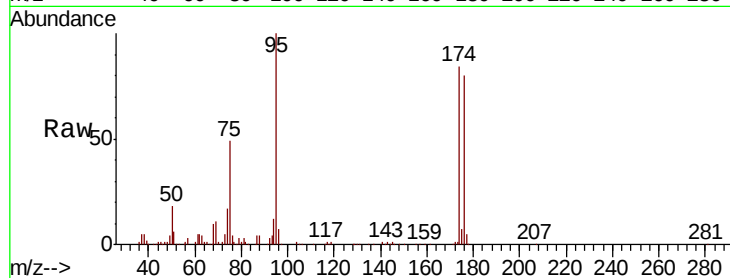
Tot Ion: 83 Resp: 404

Ion Ratio Lower Upper

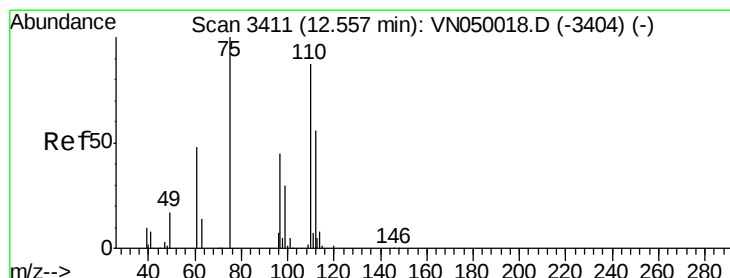
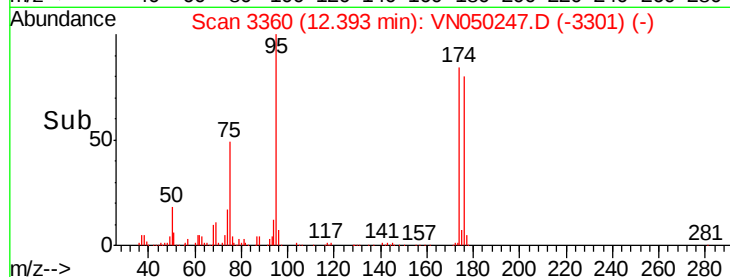
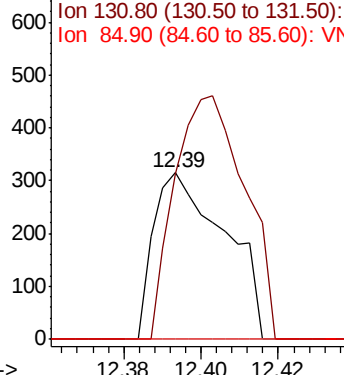
83 100

131 143.3 5.1 15.3#

85 0.0 32.3 96.8#



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: 30.72 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.15 min

Lab File: VN050247.D

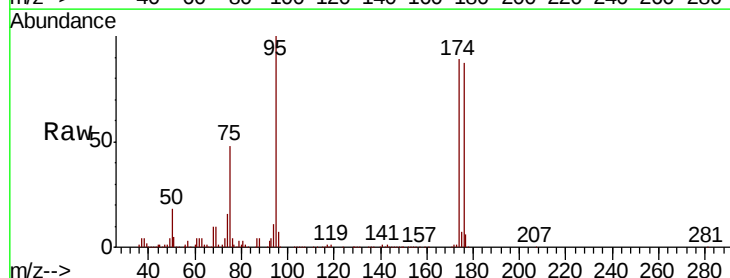
Acq: 1 Aug 2018 14:20

Tgt Ion: 75 Resp: 212647

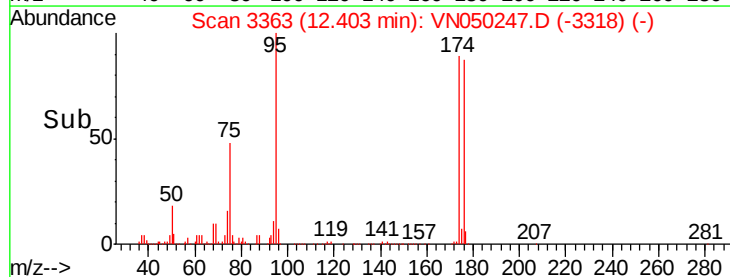
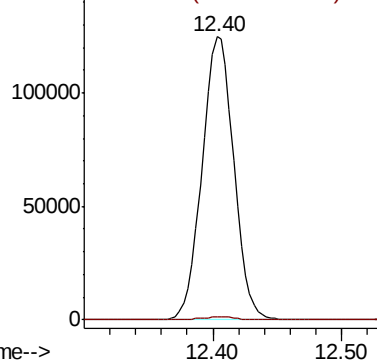
Ion Ratio Lower Upper

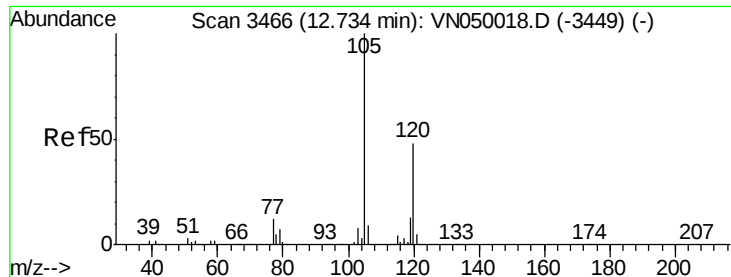
75 100

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

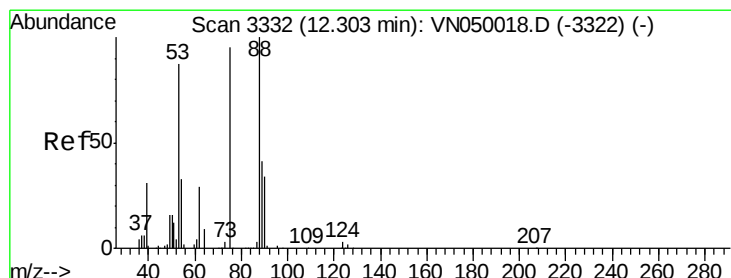
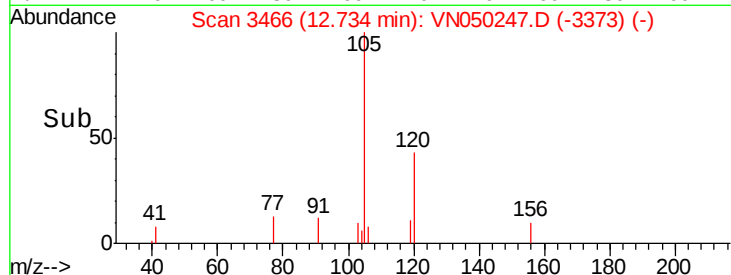
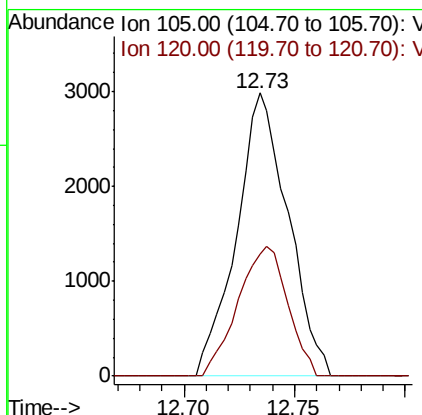
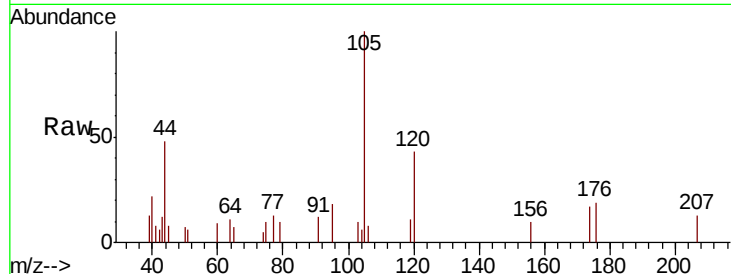




#80
 1,3,5-Trimethylbenzene
 Concen: 0.21 ug/l
 RT: 12.73 min Scan# 3466
 Delta R.T. 0.00 min
 Lab File: VN050247.D
 Acq: 1 Aug 2018 14:20

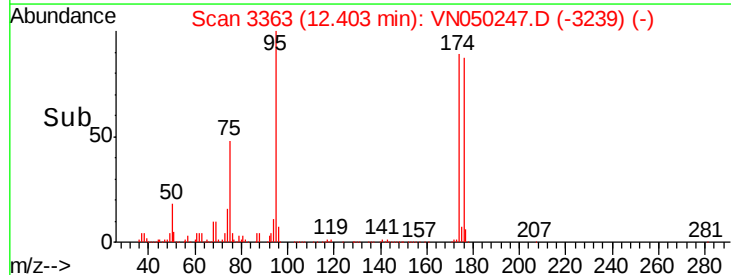
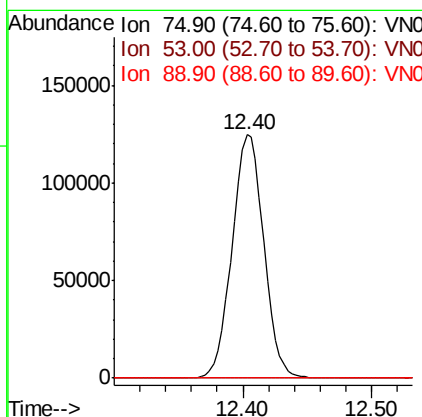
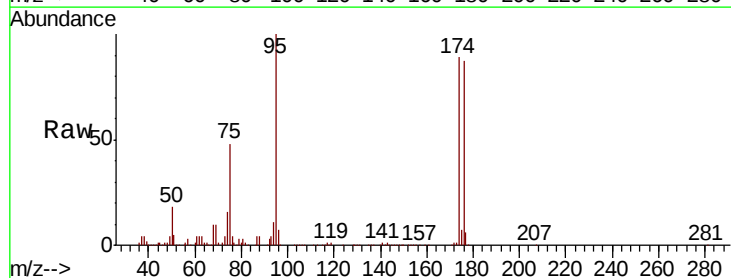
Instrument :
 MSVOA_N
 ClientSampleId :

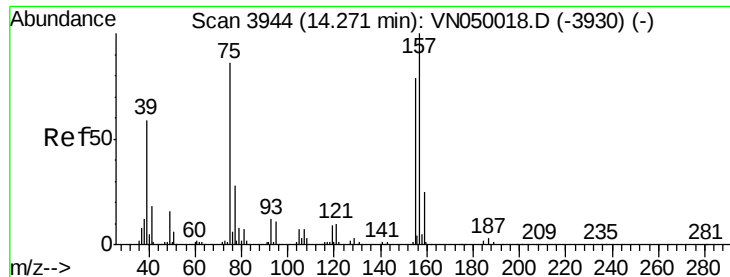
Tot Ion:105 Resp: 4833
 Ion Ratio Lower Upper
 105 100
 120 44.2 24.4 73.2



#81
 trans-1,4-Dichloro-2-butene
 Concen: 97.43 ug/l
 RT: 12.40 min Scan# 3363
 Delta R.T. 0.10 min
 Lab File: VN050247.D
 Acq: 1 Aug 2018 14:20

Tgt Ion: 75 Resp: 212647
 Ion Ratio Lower Upper
 75 100
 53 0.2 73.5 110.3#
 89 0.0 36.0 54.0#





#92

1,2-Dibromo-3-Chloropropane

Concen: Below Cal

RT: 14.26 min Scan# 3940

Delta R.T. -0.01 min

Lab File: VN050247.D

Acq: 1 Aug 2018 14:20

Instrument :

MSVOA_N

ClientSampled :

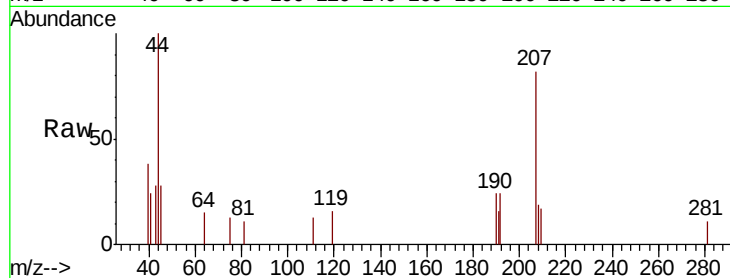
Tot Ion: 75 Resp: 168

Ion Ratio Lower Upper

75 100

155 0.0 44.8 134.4#

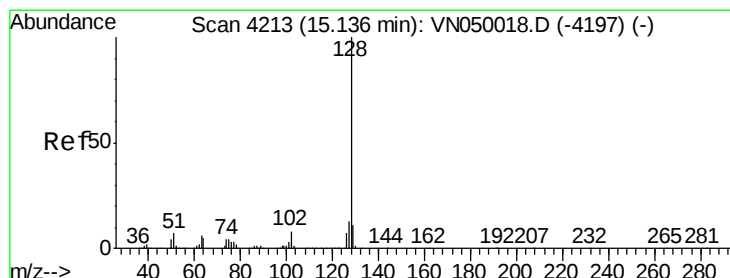
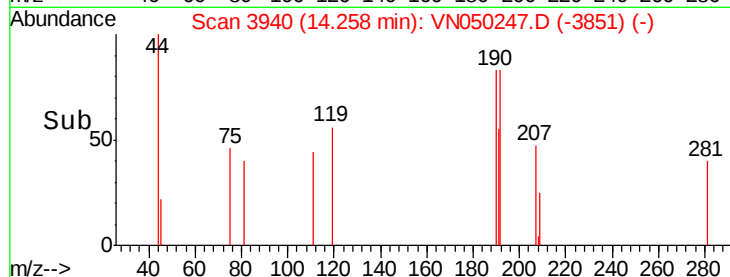
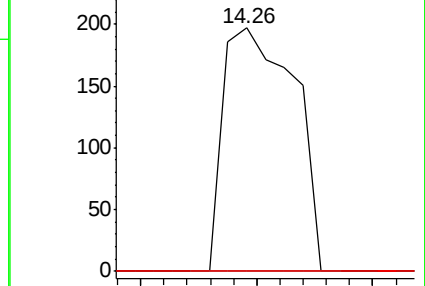
157 0.0 57.2 171.6#



Abundance Ion 74.90 (74.60 to 75.60): VN050018.D (-3930) (-)

Ion 154.80 (154.50 to 155.50): VN050018.D (-3930) (-)

Ion 156.80 (156.50 to 157.50): VN050018.D (-3930) (-)



#95

Naphthalene

Concen: 4.46 ug/l

RT: 15.14 min Scan# 4214

Delta R.T. 0.00 min

Lab File: VN050247.D

Acq: 1 Aug 2018 14:20

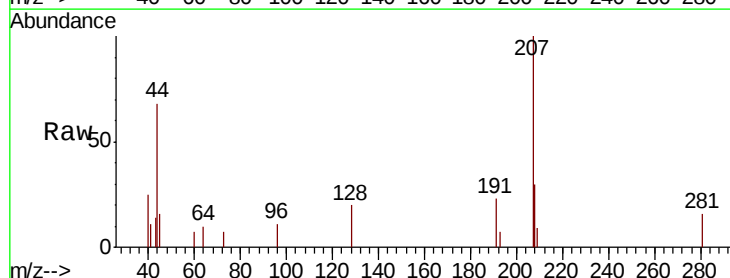
Tgt Ion: 128 Resp: 873

Ion Ratio Lower Upper

128 100

127 0.0 10.4 15.6#

129 0.0 8.8 13.2#



Abundance Ion 128.00 (127.70 to 128.70): VN050018.D (-4197) (-)

Ion 127.00 (126.70 to 127.70): VN050018.D (-4197) (-)

Ion 129.00 (128.70 to 129.70): VN050018.D (-4197) (-)

