

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN011420\
 Data File : VN059702.D
 Acq On : 14 Jan 2020 12:49
 Operator : JC/MD
 Sample : L1004-06
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 BU-RO-234

Quant Time: Jan 14 22:16:51 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N011320W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jan 14 08:58:21 2020
 Response via : Initial Calibration

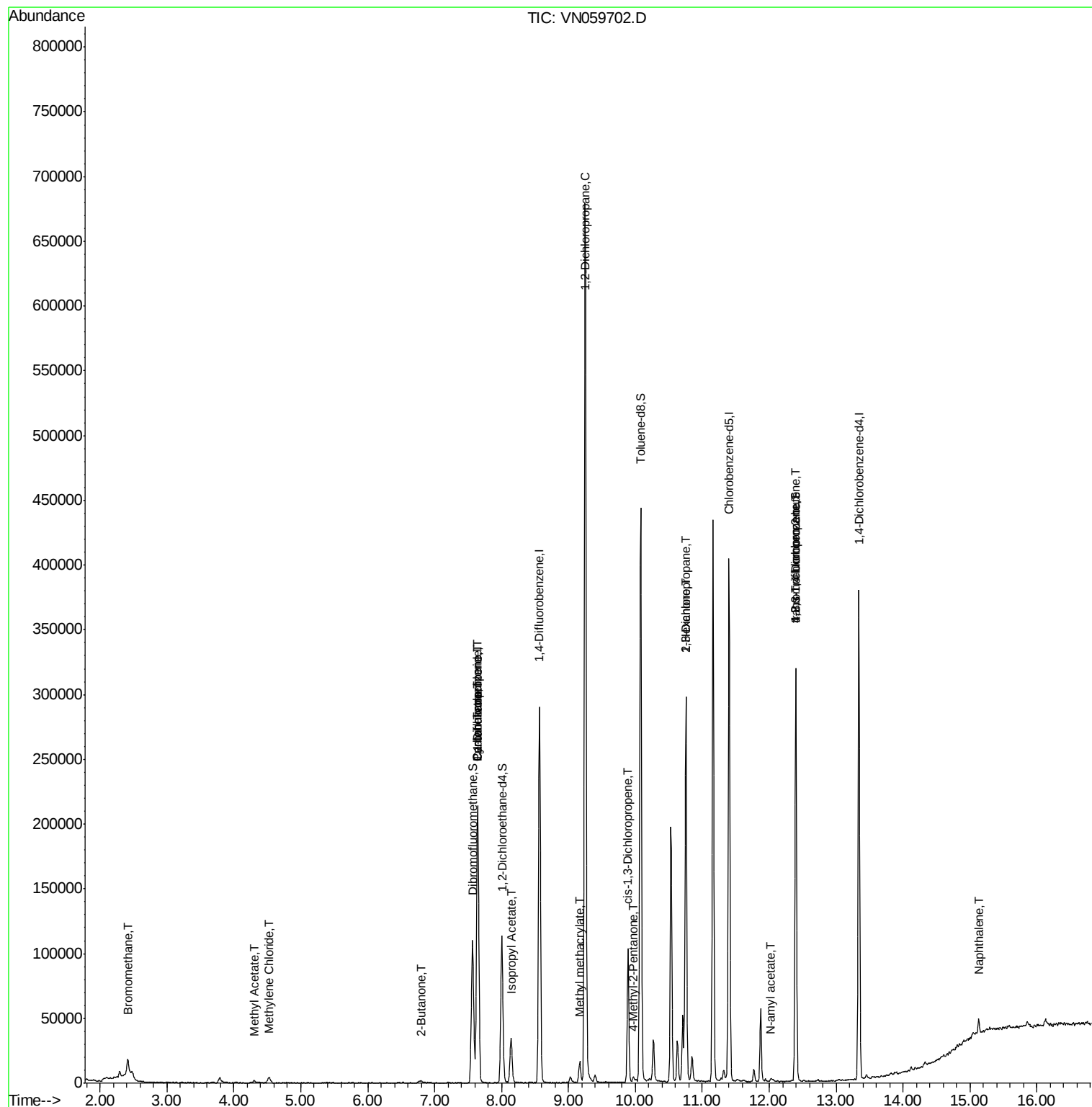
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	184373	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	272644	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	234974	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	101080	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.00	65	96091	46.93	ug/l	0.00
Spiked Amount 50.000			Recovery	=	93.86%	
35) Dibromofluoromethane	7.57	113	83043	51.08	ug/l	0.00
Spiked Amount 50.000			Recovery	=	102.16%	
50) Toluene-d8	10.08	98	310707	49.32	ug/l	0.00
Spiked Amount 50.000			Recovery	=	98.64%	
62) 4-Bromofluorobenzene	12.40	95	107981	47.55	ug/l	0.00
Spiked Amount 50.000			Recovery	=	95.10%	
Target Compounds						
					Qvalue	
5) Bromomethane	2.42	94	332	0.225	ug/l	87
16) Acetone	3.79	43	6857	Below Cal	#	86
18) Methyl Acetate	4.30	43	3181	1.330	ug/l #	85
20) Methylene Chloride	4.53	84	3634	0.685	ug/l	86
25) 2-Butanone	6.81	43	510	0.440	ug/l #	50
31) Cyclohexane	7.64	56	3733	1.232	ug/l #	1
36) 1,1-Dichloropropene	7.64	75	12507	5.268	ug/l #	51
38) Carbon Tetrachloride	7.64	117	17111	6.625	ug/l #	16
43) Isopropyl Acetate	8.14	43	41854	10.927	ug/l #	90
45) 1,2-Dichloropropane	9.25	63	789	0.450	ug/l #	44
48) Methyl methacrylate	9.17	41	2802	1.635	ug/l #	13
51) 4-Methyl-2-Pentanone	9.97	43	3280	1.481	ug/l #	86
54) cis-1,3-Dichloropropene	9.89	75	19950	6.818	ug/l #	55
57) 1,3-Dichloropropane	10.75	76	3212	1.142	ug/l #	42
59) 2-Hexanone	10.75	43	41106	25.200	ug/l #	55
74) N-amyl acetate	12.02	43	2308	0.802	ug/l #	45
76) 1,2,3-Trichloropropane	12.40	75	54393	31.976	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	54393	68.668	ug/l #	11
92) 1,2-Dibromo-3-Chloropropan	14.26	75	62	Below Cal	#	6
95) Naphthalene	15.13	128	9601	1.742	ug/l	99

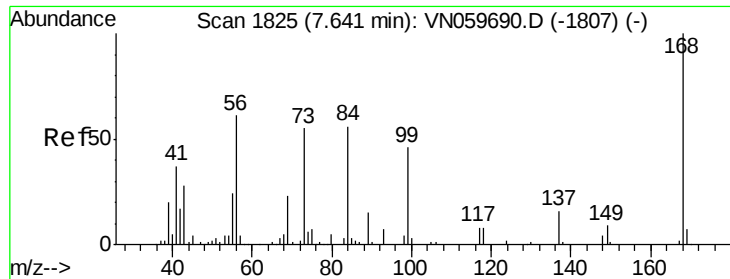
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. 0.00 min

Lab File: VN059702.D

Acq: 14 Jan 2020 12:49

Instrument :

MSVOA_N

ClientSampled :

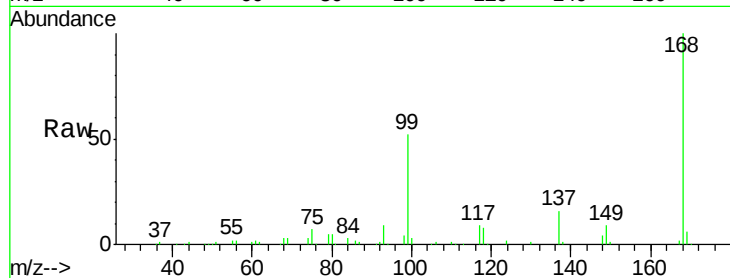
BU-RO-234

Tgt Ion:168 Resp: 184373

Ion Ratio Lower Upper

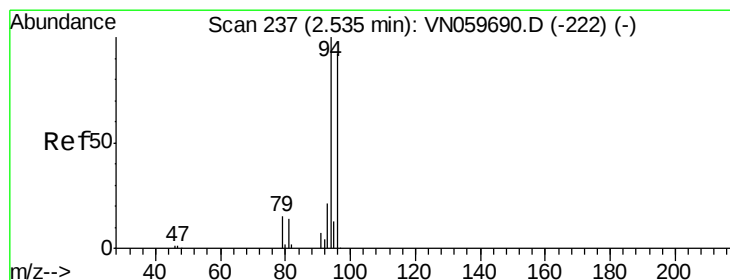
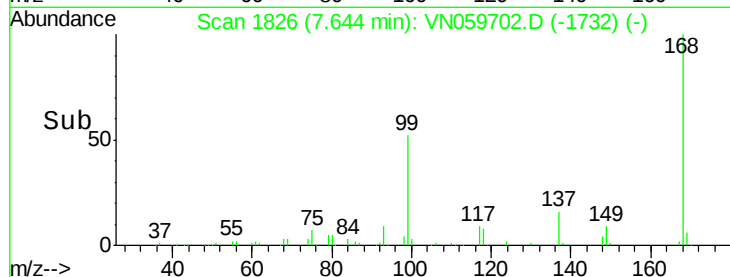
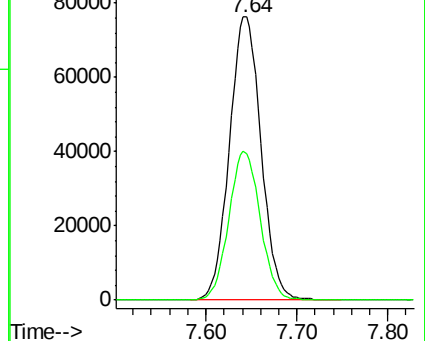
168 100

99 51.7 48.2 72.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#5

Bromomethane

Concen: 0.225 ug/l

RT: 2.42 min Scan# 201

Delta R.T. -0.12 min

Lab File: VN059702.D

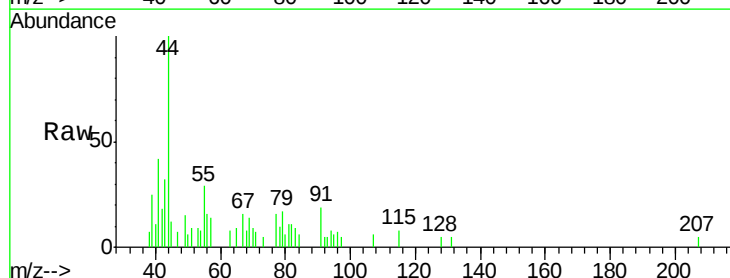
Acq: 14 Jan 2020 12:49

Tgt Ion: 94 Resp: 332

Ion Ratio Lower Upper

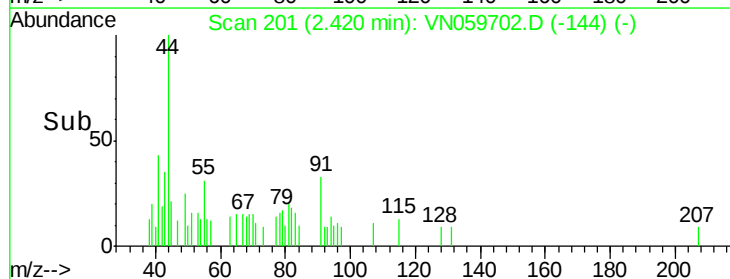
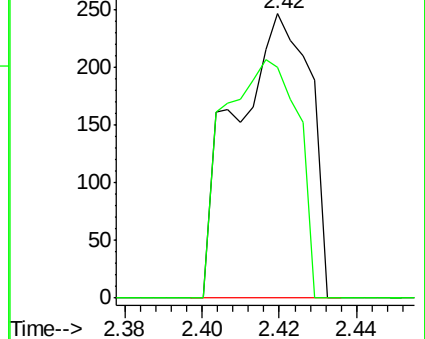
94 100

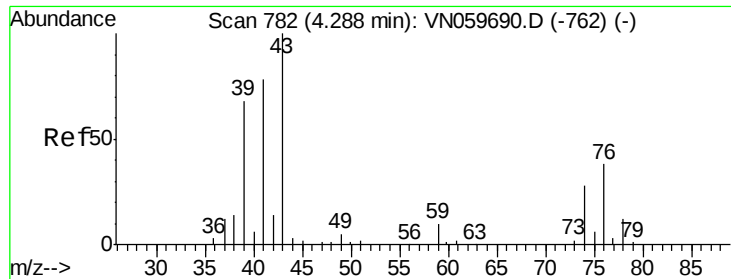
96 81.3 74.7 112.1



Abundance Ion 93.90 (93.60 to 94.60): VNO

Ion 95.90 (95.60 to 96.60): VNO

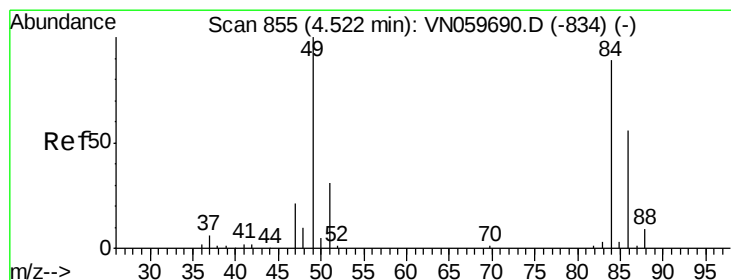
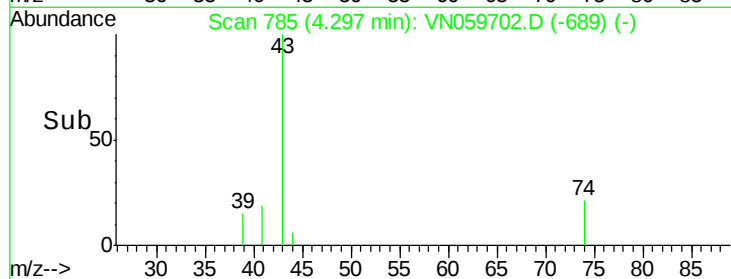
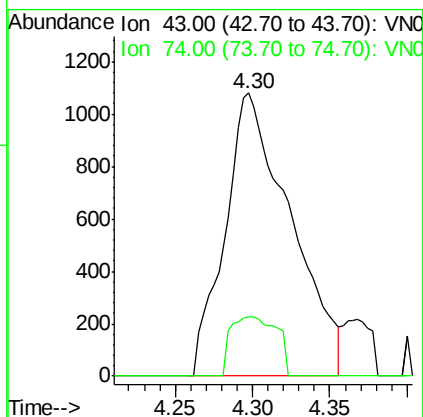
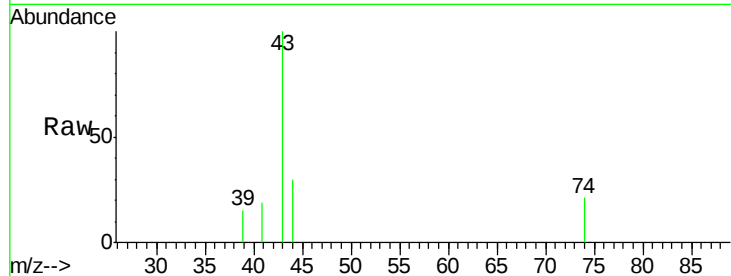




#18
Methyl Acetate
Concen: 1.330 ug/l
RT: 4.30 min Scan# 785
Delta R.T. 0.01 min
Lab File: VN059702.D
Acq: 14 Jan 2020 12:49

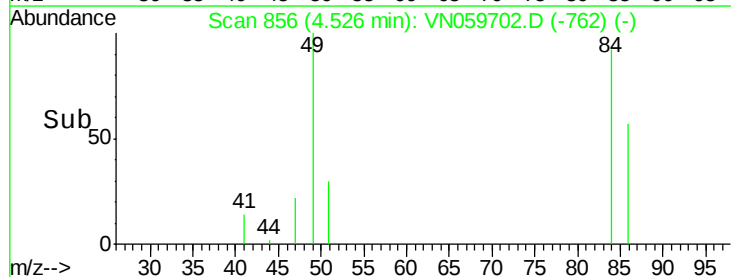
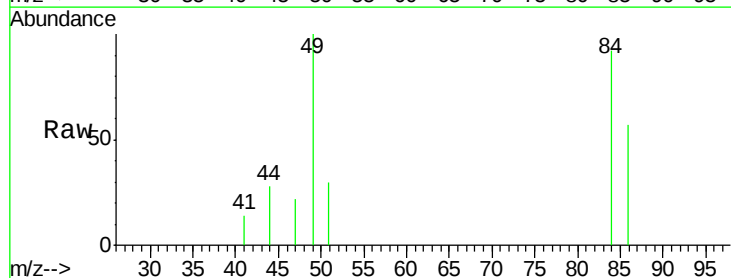
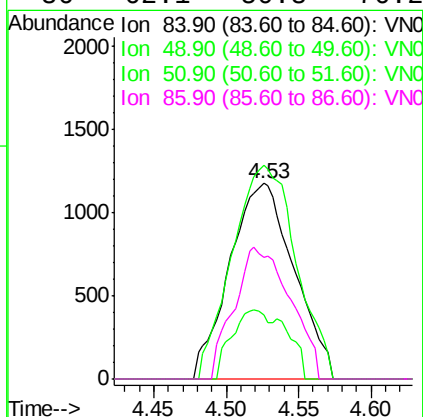
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BU-RO-234

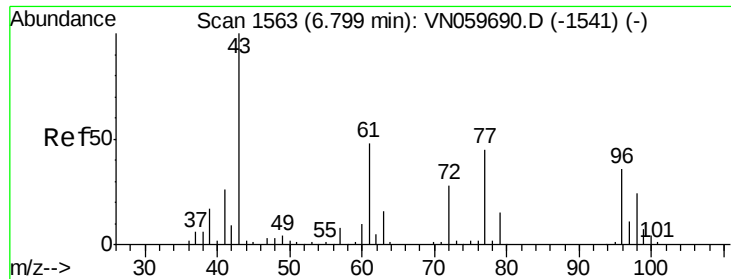
Tgt Ion: 43 Resp: 3181
Ion Ratio Lower Upper
43 100
74 14.7 17.5 26.3#



#20
Methylene Chloride
Concen: 0.685 ug/l
RT: 4.53 min Scan# 856
Delta R.T. 0.00 min
Lab File: VN059702.D
Acq: 14 Jan 2020 12:49

Tgt Ion: 84 Resp: 3634
Ion Ratio Lower Upper
84 100
49 109.2 106.6 160.0
51 32.6 31.9 47.9
86 62.1 50.8 76.2

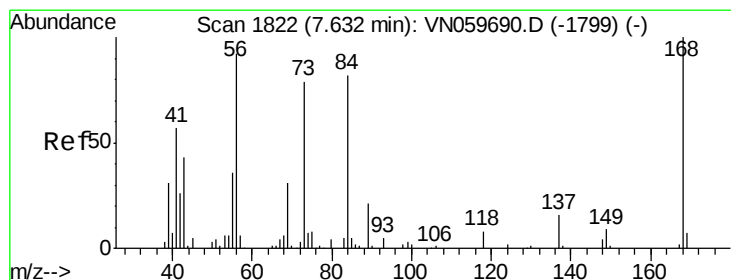
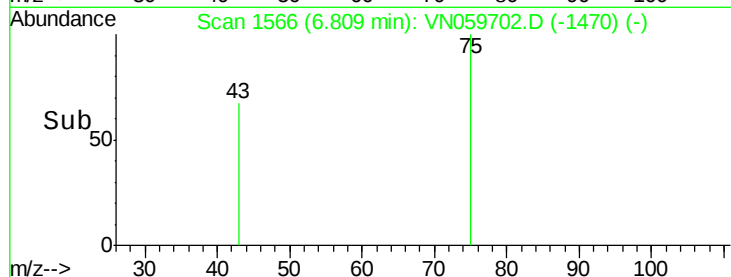
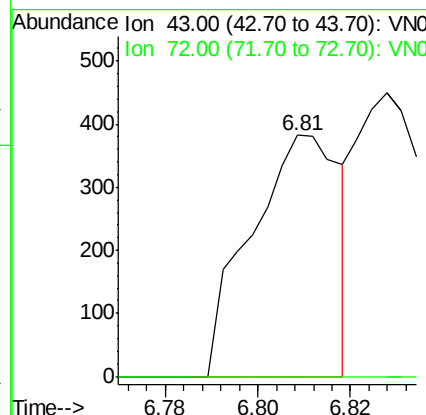
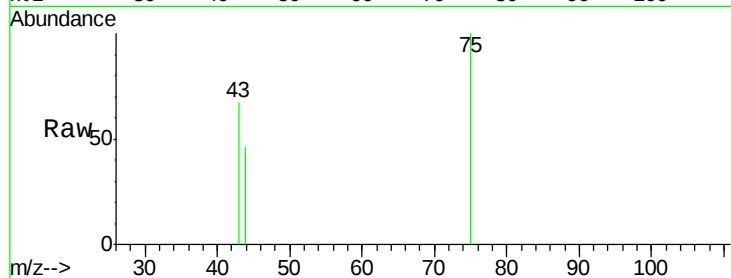




#25
2-Butanone
Concen: 0.440 ug/l
RT: 6.81 min Scan# 1566
Delta R.T. 0.01 min
Lab File: VN059702.D
Acq: 14 Jan 2020 12:49

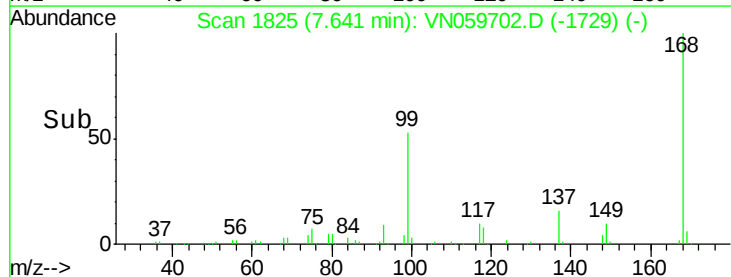
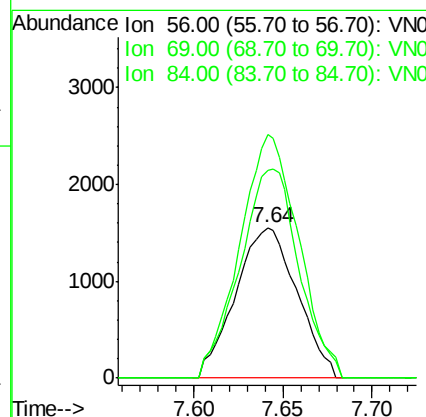
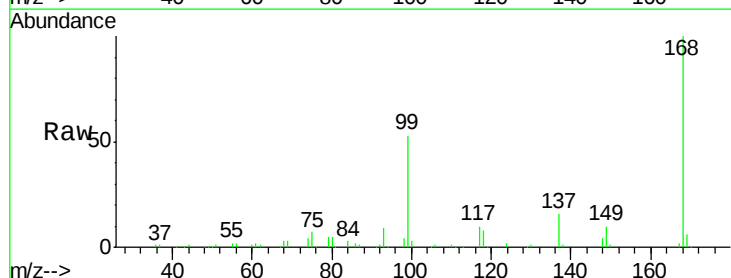
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MSVOA_N
ClientSampled :
BU-RO-234

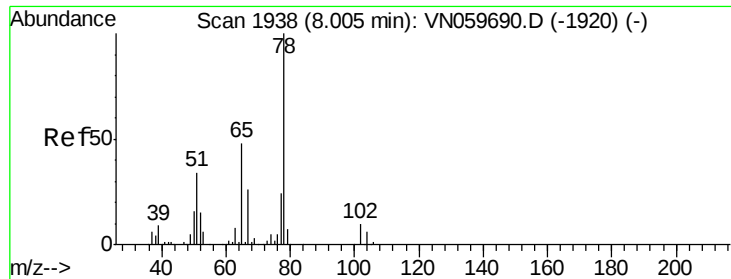
Tgt Ion: 43 Resp: 510
Ion Ratio Lower Upper
43 100
72 0.0 19.9 29.9#



#31
Cyclohexane
Concen: 1.232 ug/l
RT: 7.64 min Scan# 1825
Delta R.T. 0.01 min
Lab File: VN059702.D
Acq: 14 Jan 2020 12:49

Tgt Ion: 56 Resp: 3733
Ion Ratio Lower Upper
56 100
69 161.8 26.5 39.7#
84 138.4 65.3 97.9#

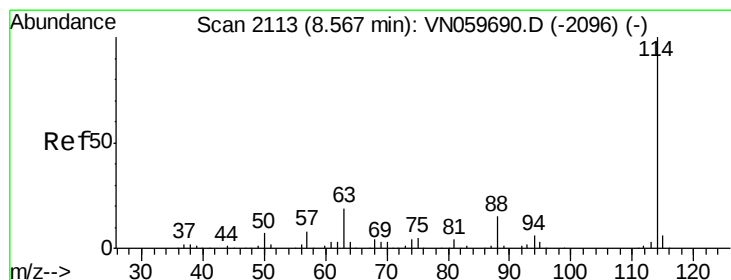
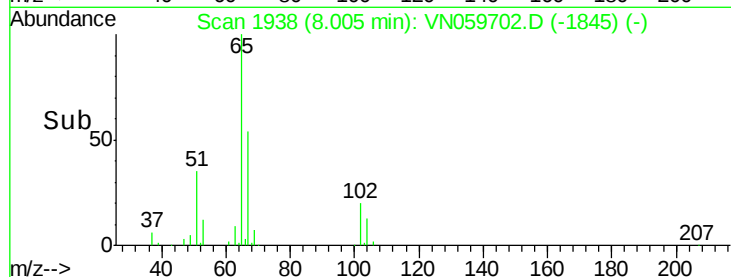
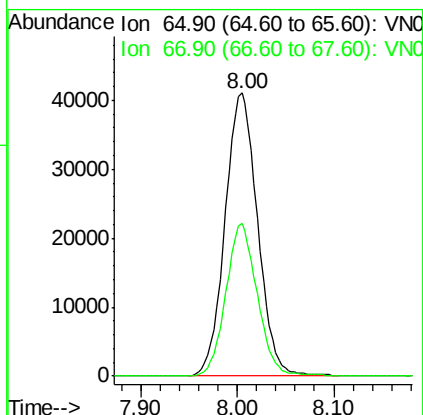
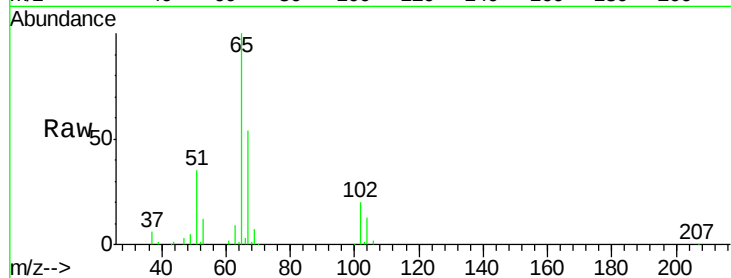




#33
 1,2-Dichloroethane-d4
 Concen: 46.931 ug/l
 RT: 8.00 min Scan# 1938
 Delta R.T. 0.00 min
 Lab File: VN059702.D
 Acq: 14 Jan 2020 12:49

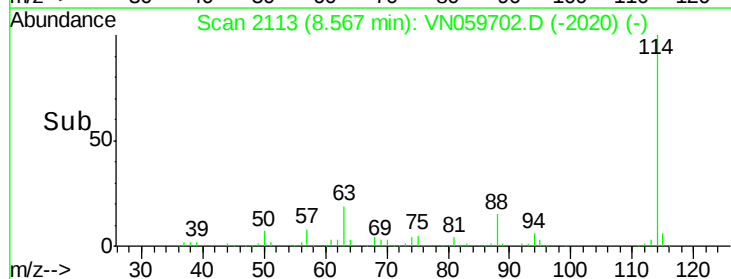
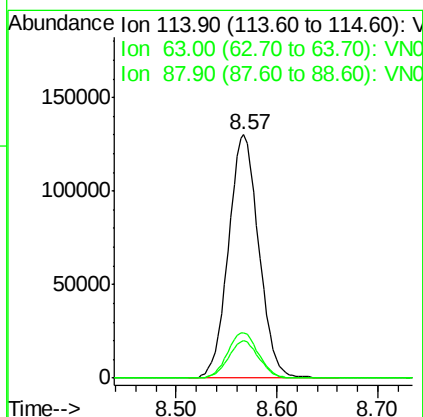
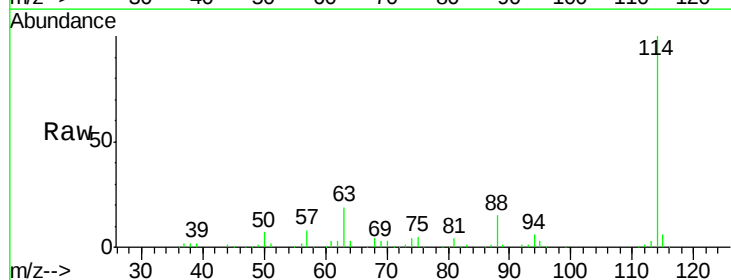
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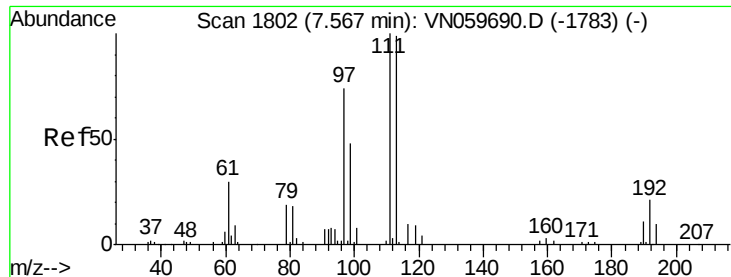
Tgt Ion: 65 Resp: 96091
 Ion Ratio Lower Upper
 65 100
 67 51.7 0.0 103.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2113
 Delta R.T. 0.00 min
 Lab File: VN059702.D
 Acq: 14 Jan 2020 12:49

Tgt Ion: 114 Resp: 272644
 Ion Ratio Lower Upper
 114 100
 63 18.7 0.0 43.6
 88 15.4 0.0 31.4

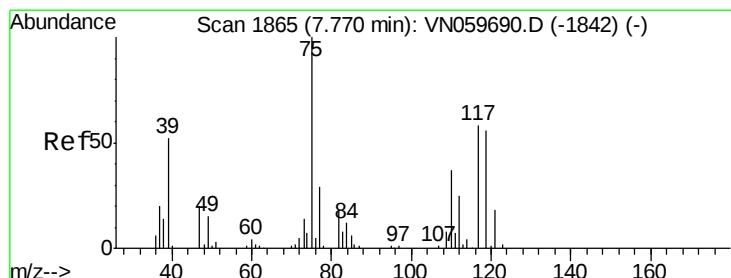
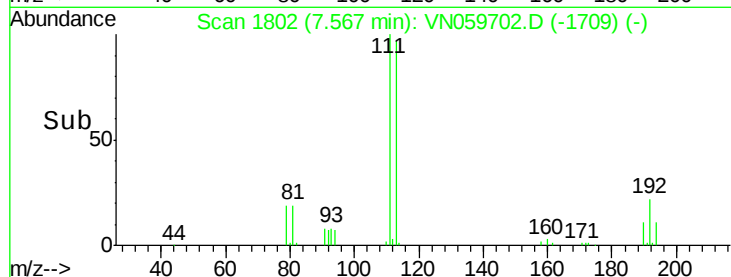
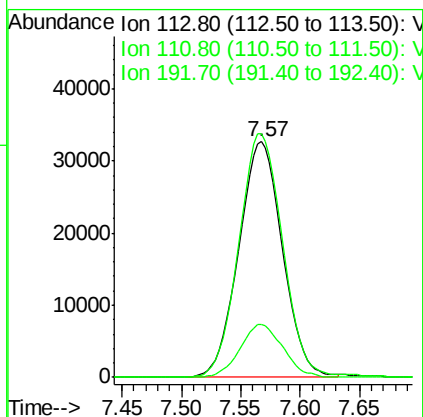
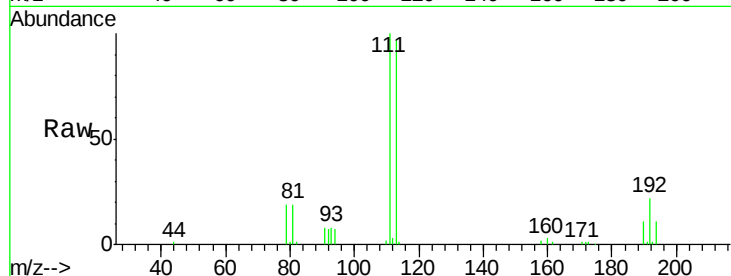




#35
 Dibromofluoromethane
 Concen: 51.075 ug/l
 RT: 7.57 min Scan# 1802
 Delta R.T. 0.00 min
 Lab File: VN059702.D
 Acq: 14 Jan 2020 12:49

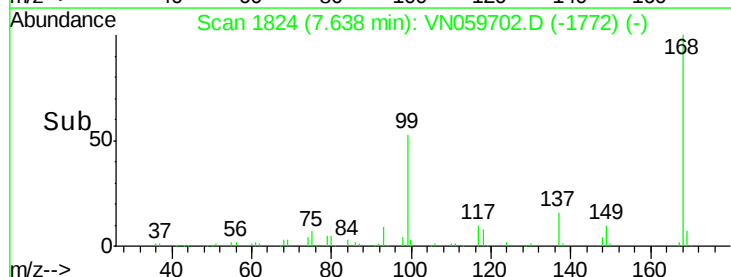
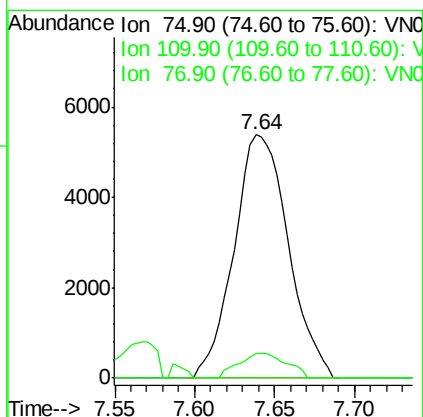
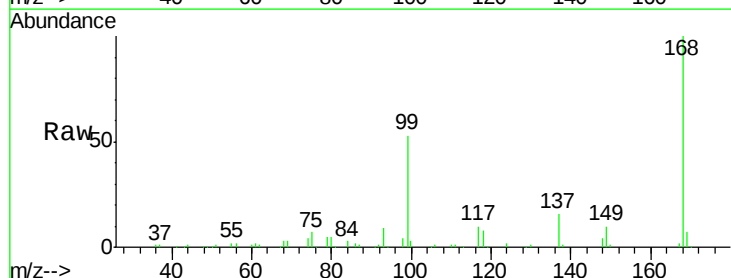
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 ClientSampleId :
 BU-RO-234

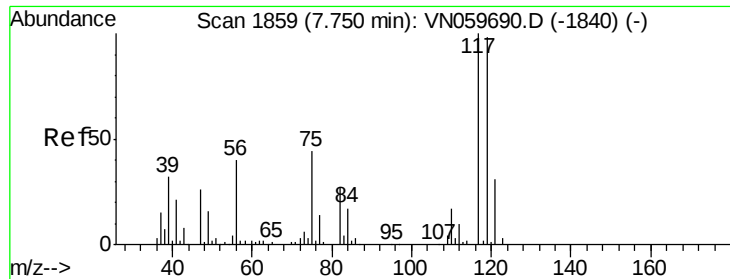
Tgt Ion: 113 Resp: 83043
 Ion Ratio Lower Upper
 113 100
 111 104.2 83.5 125.3
 192 22.0 15.4 23.2



#36
 1,1-Dichloropropene
 Concen: 5.268 ug/l
 RT: 7.64 min Scan# 1824
 Delta R.T. -0.13 min
 Lab File: VN059702.D
 Acq: 14 Jan 2020 12:49

Tgt Ion: 75 Resp: 12507
 Ion Ratio Lower Upper
 75 100
 110 9.0 16.6 49.7#
 77 0.0 25.1 37.7#





#38

Carbon Tetrachloride

Concen: 6.625 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.11 min

Lab File: VN059702.D

Acq: 14 Jan 2020 12:49

Instrument :

MSVOA_N

ClientSampleId :

BU-RO-234

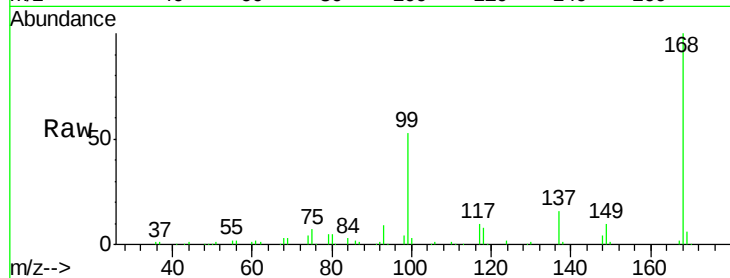
Tgt Ion: 117 Resp: 17111

Ion Ratio Lower Upper

117 100

119 5.0 76.5 114.7#

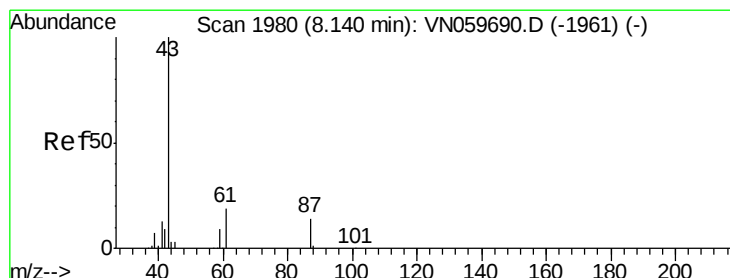
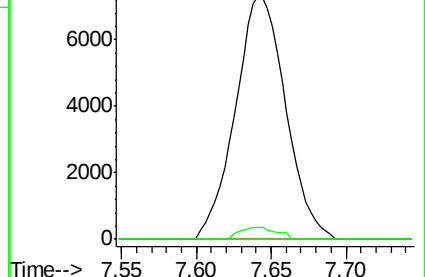
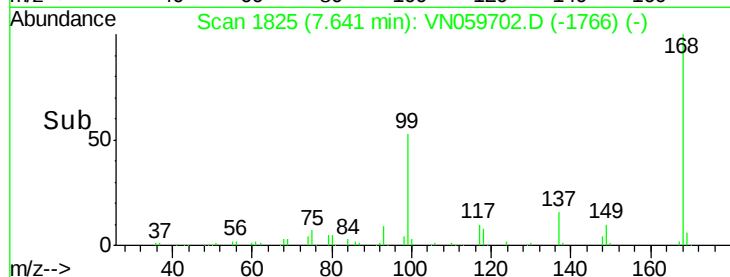
121 0.0 25.1 37.7#



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



#43

Isopropyl Acetate

Concen: 10.927 ug/l

RT: 8.14 min Scan# 1981

Delta R.T. 0.00 min

Lab File: VN059702.D

Acq: 14 Jan 2020 12:49

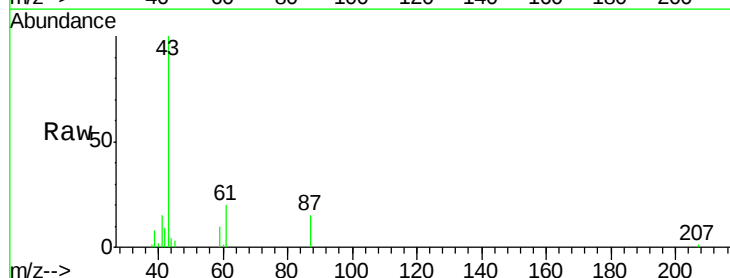
Tgt Ion: 43 Resp: 41854

Ion Ratio Lower Upper

43 100

61 20.0 20.2 30.2#

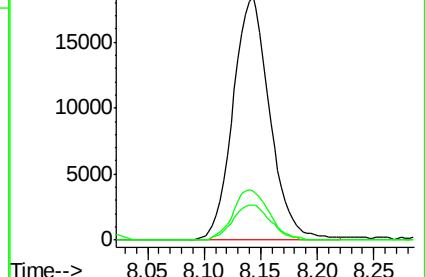
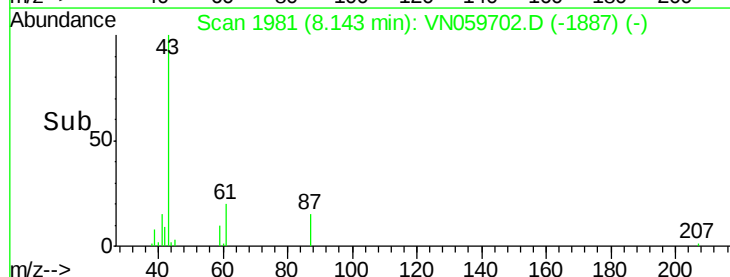
87 15.0 9.5 14.3#

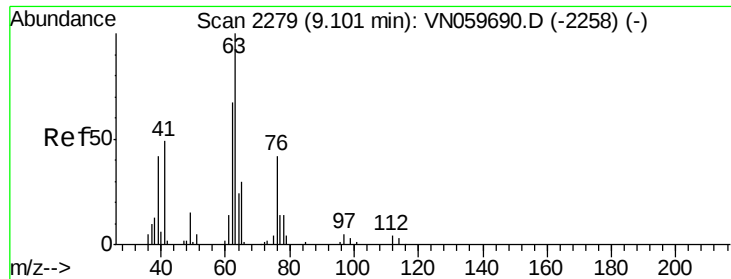


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V

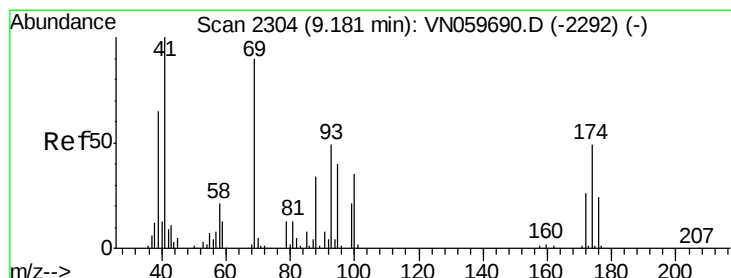
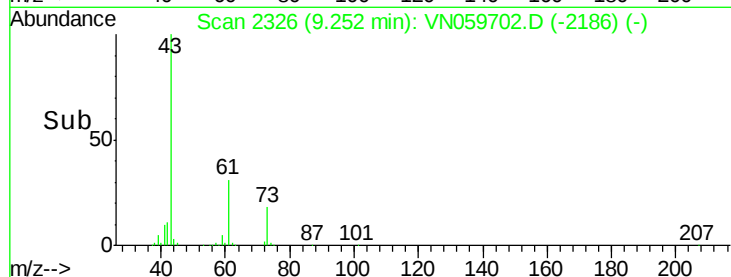
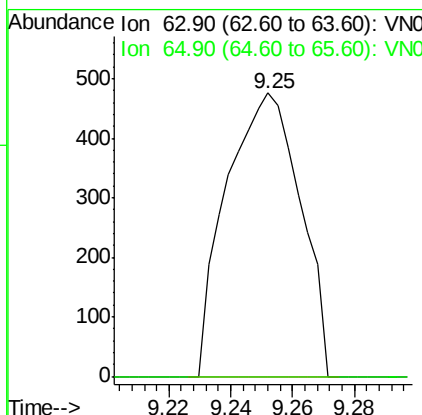
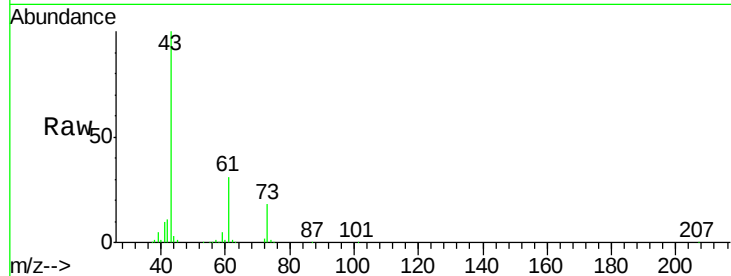




#45
 1,2-Dichloropropane
 Concen: 0.450 ug/l
 RT: 9.25 min Scan# 2326
 Delta R.T. 0.15 min
 Lab File: VN059702.D
 Acq: 14 Jan 2020 12:49

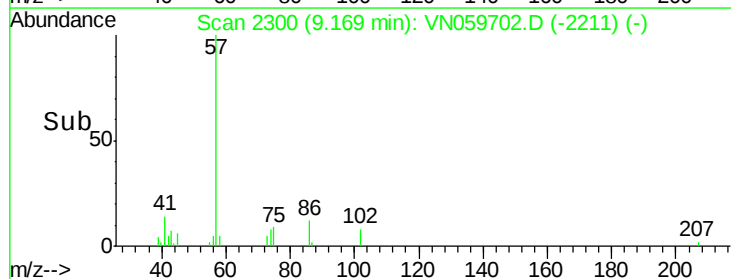
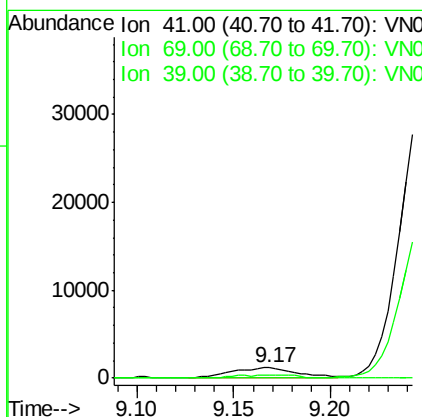
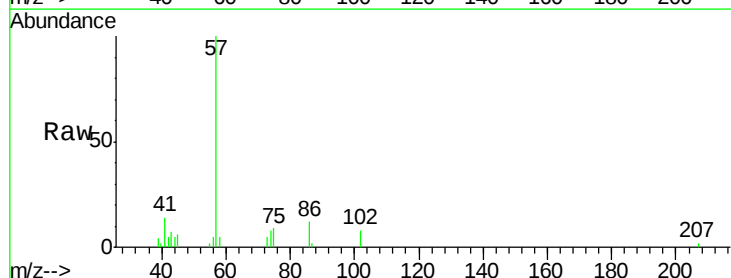
Instrument :
 MSVOA_N
 ClientSampled :
 BU-RO-234

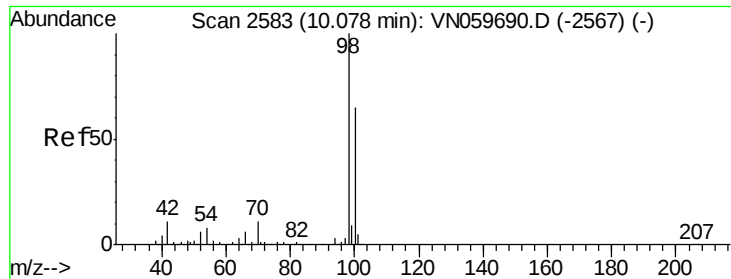
Tgt Ion: 63 Resp: 789
 Ion Ratio Lower Upper
 63 100
 65 0.0 24.9 37.3#



#48
 Methyl methacrylate
 Concen: 1.635 ug/l
 RT: 9.17 min Scan# 2300
 Delta R.T. -0.01 min
 Lab File: VN059702.D
 Acq: 14 Jan 2020 12:49

Tgt Ion: 41 Resp: 2802
 Ion Ratio Lower Upper
 41 100
 69 0.0 64.4 96.6#
 39 0.0 51.3 76.9#





#50

Toluene-d8

Concen: 49.322 ug/l

RT: 10.08 min Scan# 2583

Delta R.T. 0.00 min

Lab File: VN059702.D

Acq: 14 Jan 2020 12:49

Instrument :

MSVOA_N

ClientSampled :

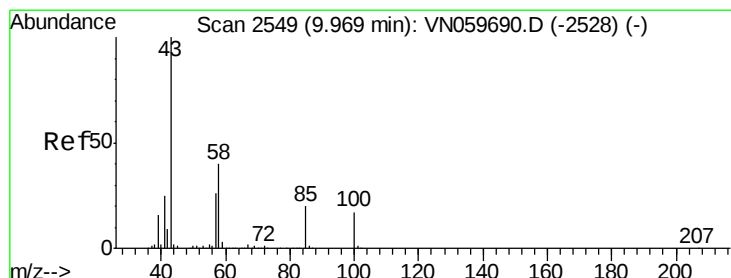
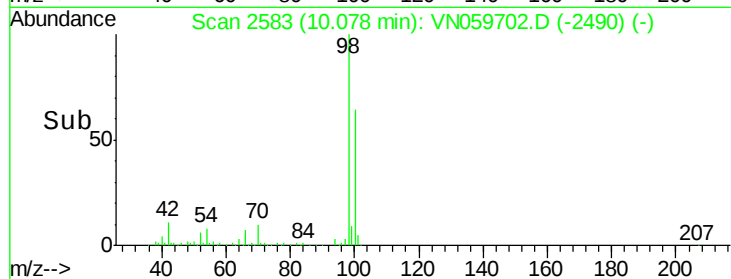
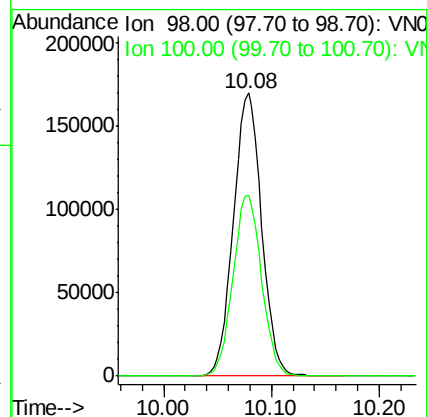
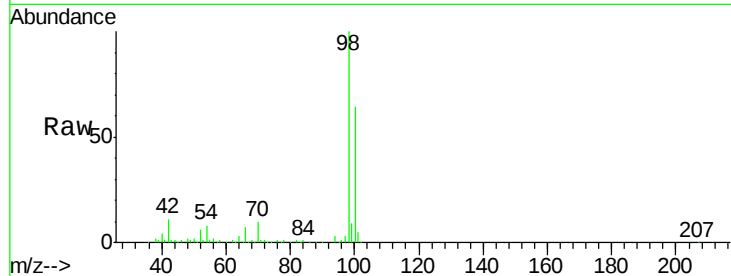
BU-RO-234

Tgt Ion: 98 Resp: 310707

Ion Ratio Lower Upper

98 100

100 64.7 51.2 76.8



#51

4-Methyl-2-Pentanone

Concen: 1.481 ug/l

RT: 9.97 min Scan# 2549

Delta R.T. 0.00 min

Lab File: VN059702.D

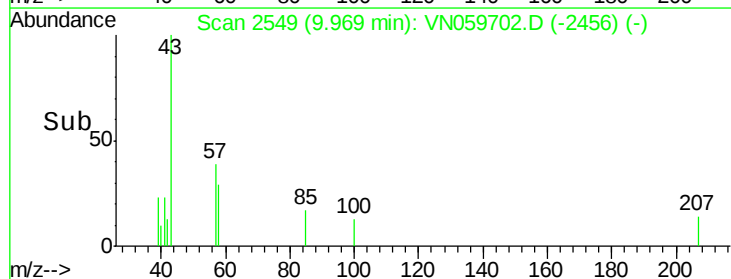
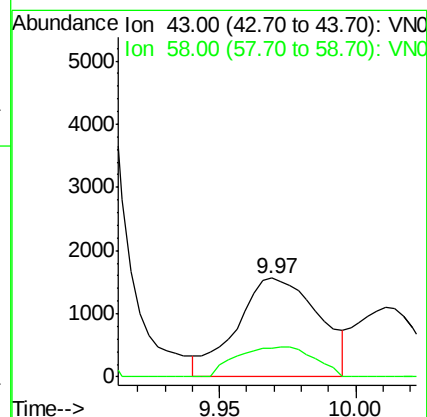
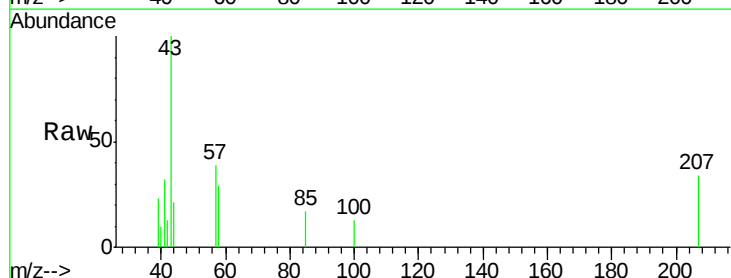
Acq: 14 Jan 2020 12:49

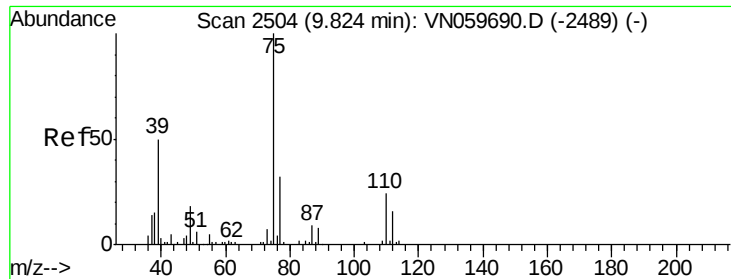
Tgt Ion: 43 Resp: 3280

Ion Ratio Lower Upper

43 100

58 28.7 29.8 44.8#





#54

cis-1,3-Dichloropropene

Concen: 6.818 ug/l

RT: 9.89 min Scan# 2524

Delta R.T. 0.06 min

Lab File: VN059702.D

Acq: 14 Jan 2020 12:49

Instrument :

MSVOA_N

ClientSampled :

BU-RO-234

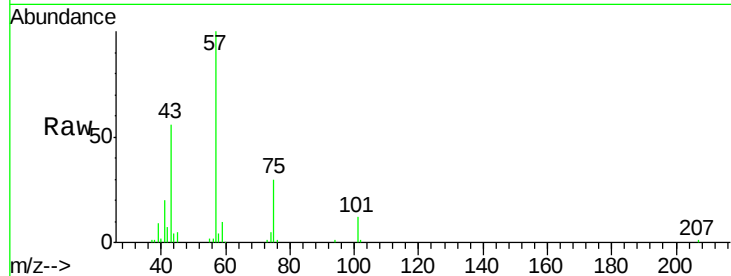
Tgt Ion: 75 Resp: 19950

Ion Ratio Lower Upper

75 100

77 0.0 25.1 37.7#

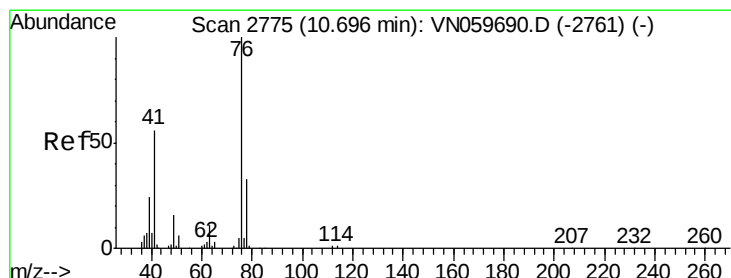
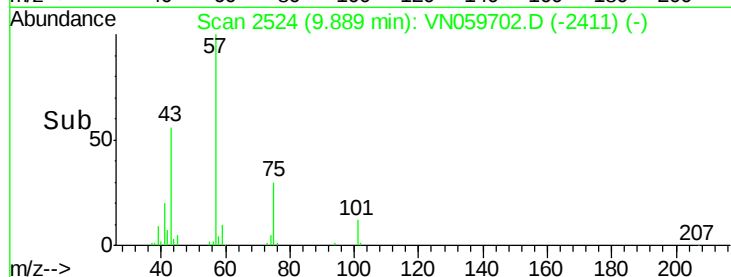
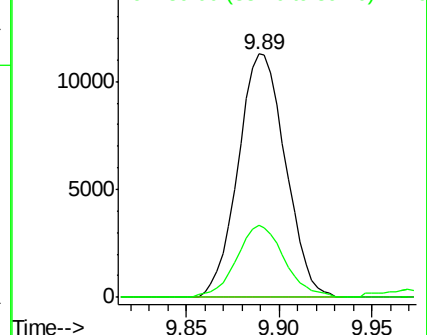
39 29.4 46.1 69.1#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0



#57

1,3-Dichloropropane

Concen: 1.142 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.06 min

Lab File: VN059702.D

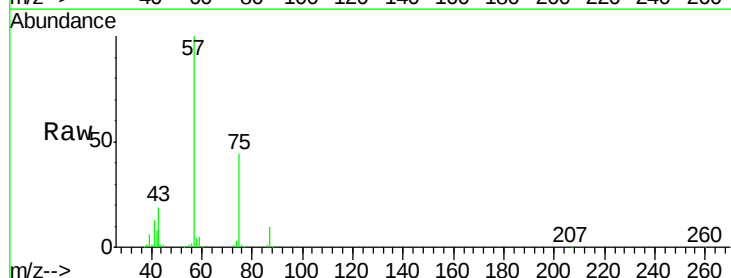
Acq: 14 Jan 2020 12:49

Tgt Ion: 76 Resp: 3212

Ion Ratio Lower Upper

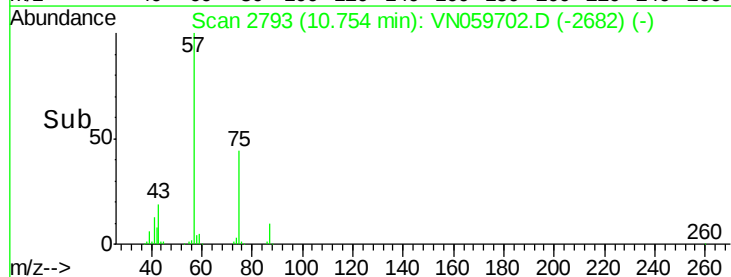
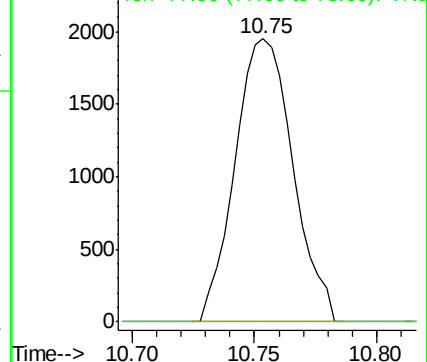
76 100

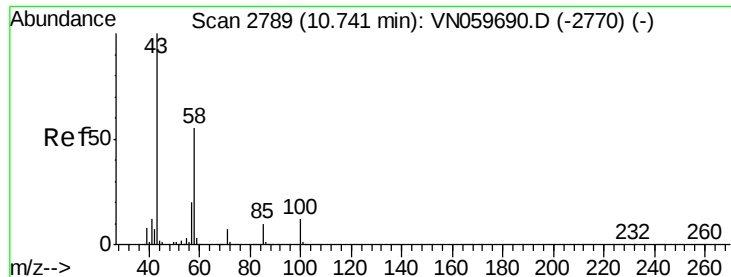
78 0.0 25.8 38.8#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

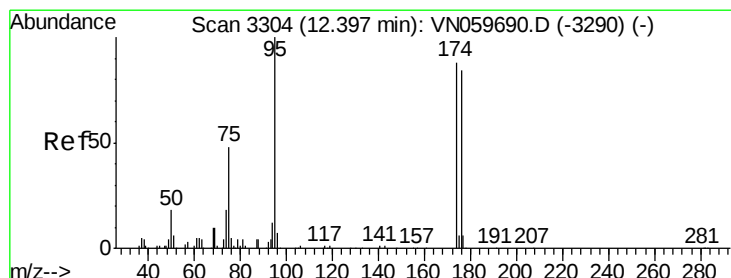
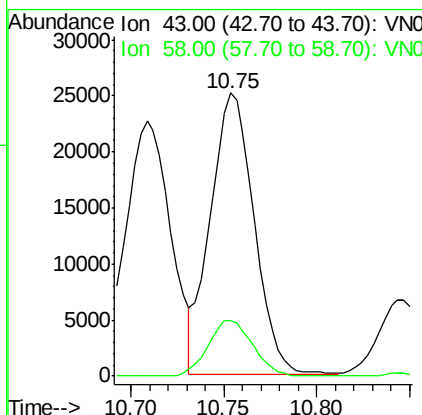
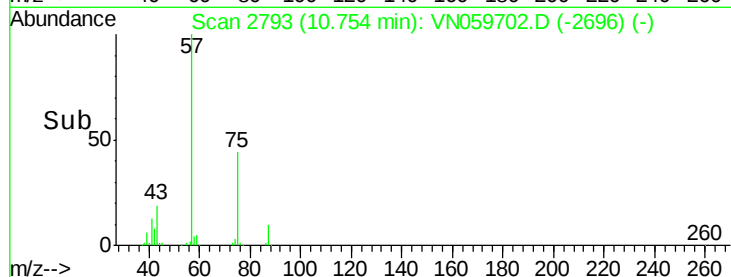
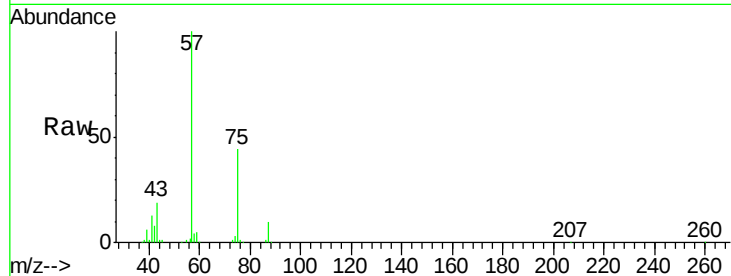




#59
2-Hexanone
Concen: 25.200 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. 0.01 min
Lab File: VN059702.D
Acq: 14 Jan 2020 12:49

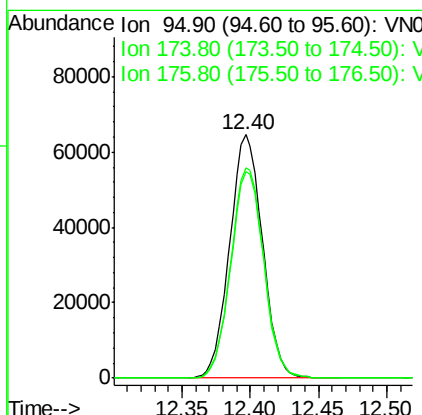
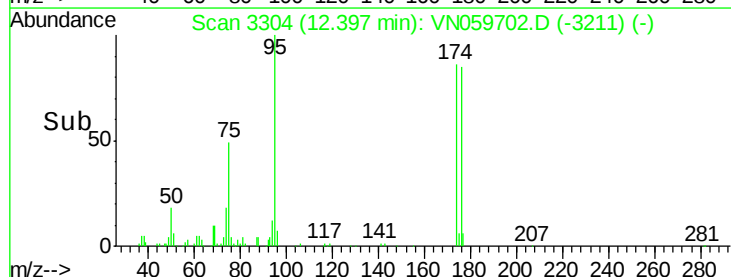
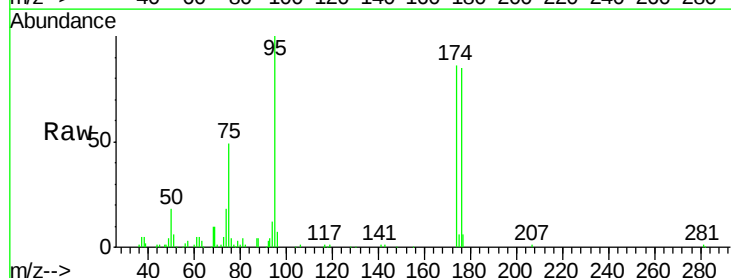
Instrument :
MSVOA_N
ClientSampled :
BU-RO-234

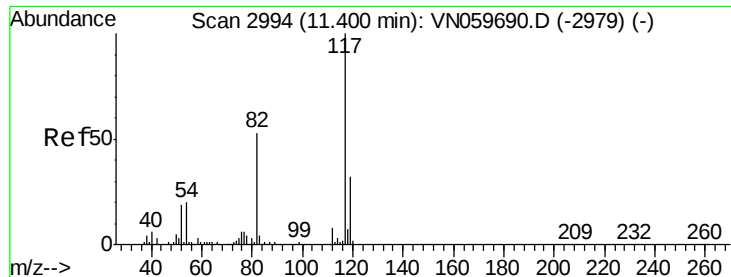
Tgt Ion: 43 Resp: 41106
Ion Ratio Lower Upper
43 100
58 20.1 25.8 77.3#



#62
4-Bromofluorobenzene
Concen: 47.548 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. 0.00 min
Lab File: VN059702.D
Acq: 14 Jan 2020 12:49

Tgt Ion: 95 Resp: 107981
Ion Ratio Lower Upper
95 100
174 87.2 0.0 151.4
176 85.4 0.0 146.0

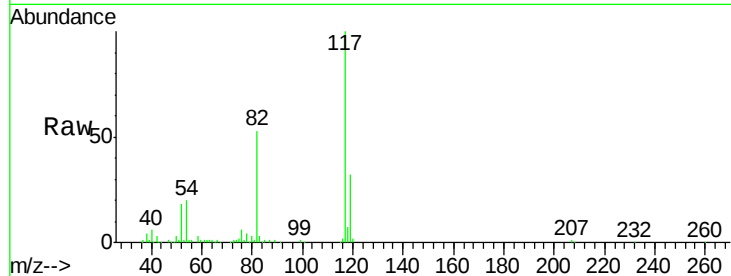




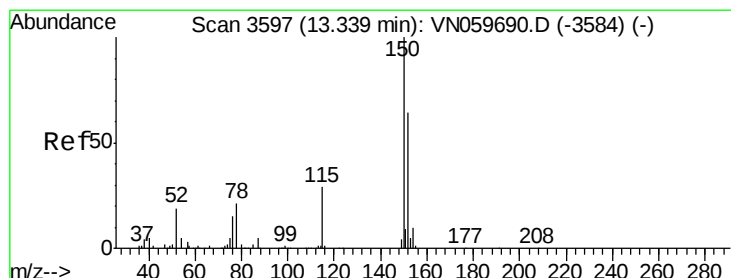
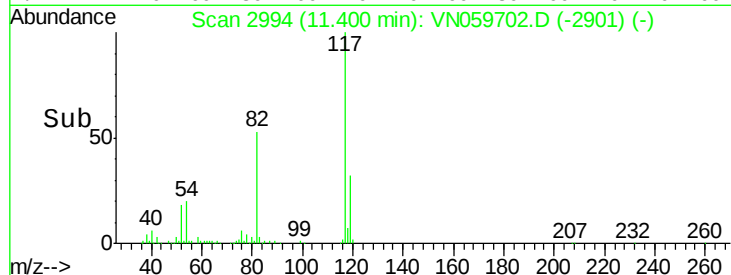
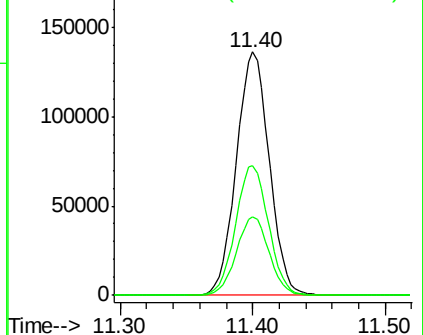
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2994
Delta R.T. 0.00 min
Lab File: VN059702.D
Acq: 14 Jan 2020 12:49

Instrument :
MSVOA_N
ClientSampled :
BU-RO-234

Tgt Ion:117 Resp: 234974
Ion Ratio Lower Upper
117 100
82 53.3 45.9 68.9
119 32.5 25.5 38.3

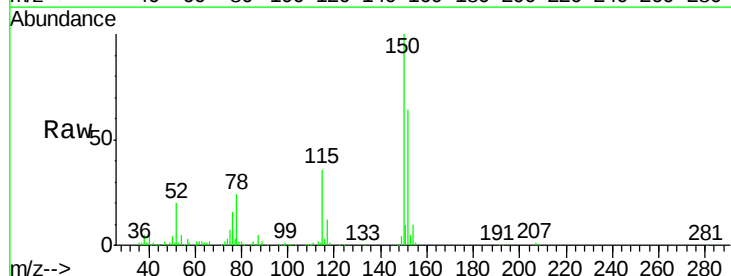


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

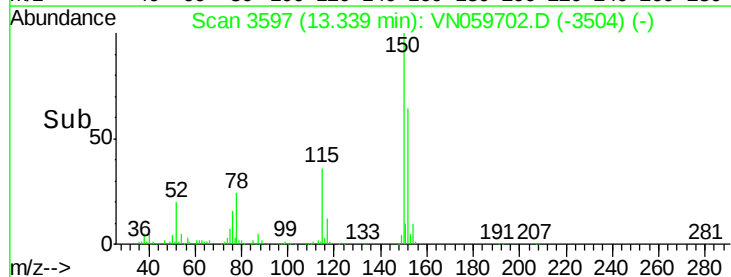
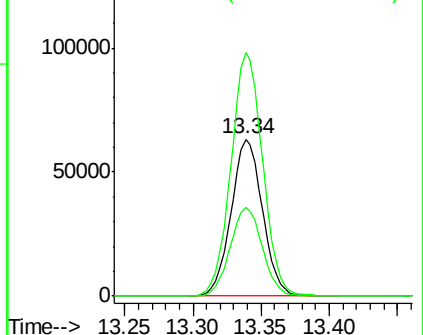


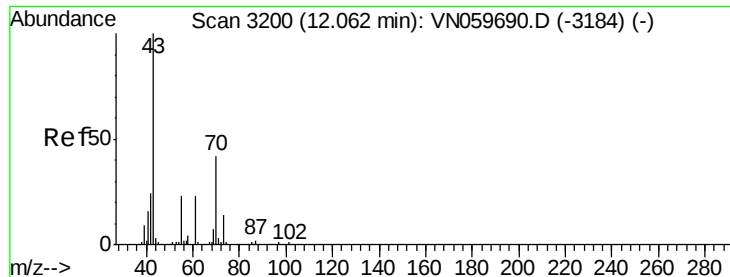
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3597
Delta R.T. 0.00 min
Lab File: VN059702.D
Acq: 14 Jan 2020 12:49

Tgt Ion:152 Resp: 101080
Ion Ratio Lower Upper
152 100
115 58.0 30.3 90.9
150 157.1 0.0 345.2



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





#74

N-ethyl acetate

Concen: 0.802 ug/l

RT: 12.02 min Scan# 3188

Delta R.T. -0.04 min

Lab File: VN059702.D

Acq: 14 Jan 2020 12:49

Instrument :

MSVOA_N

ClientSampled :

BU-RO-234

Tgt Ion: 43 Resp: 2308

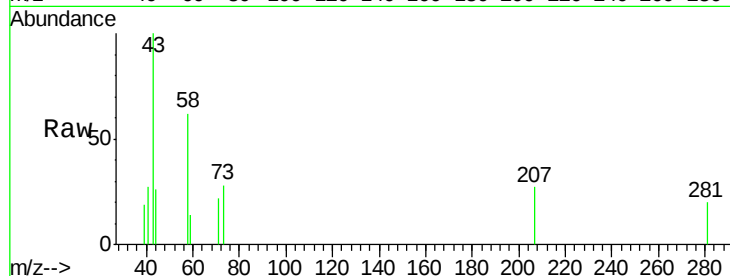
Ion Ratio Lower Upper

43 100

70 0.0 31.3 46.9#

55 0.0 19.8 29.6#

61 0.0 18.3 27.5#

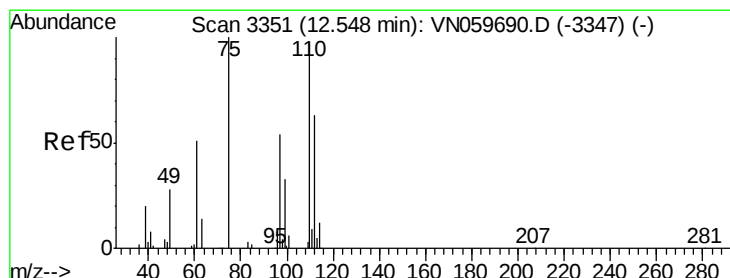
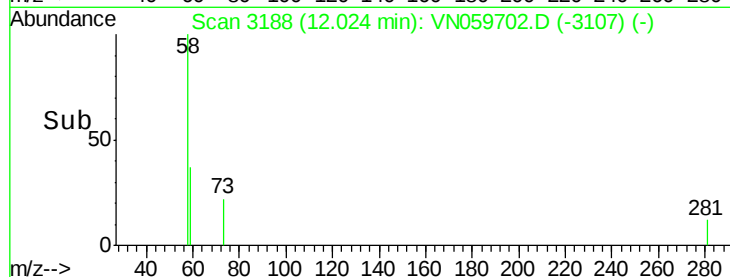
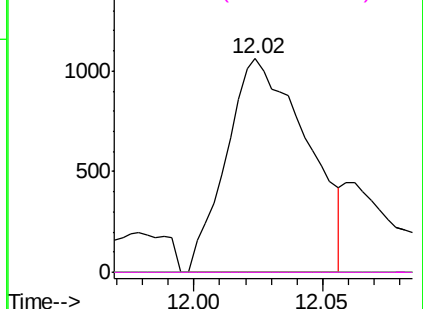


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 70.00 (69.70 to 70.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 61.00 (60.70 to 61.70): VN0



#76

1,2,3-Trichloropropane

Concen: 31.976 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN059702.D

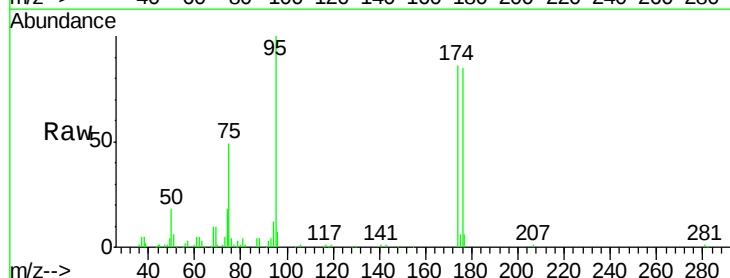
Acq: 14 Jan 2020 12:49

Tgt Ion: 75 Resp: 54393

Ion Ratio Lower Upper

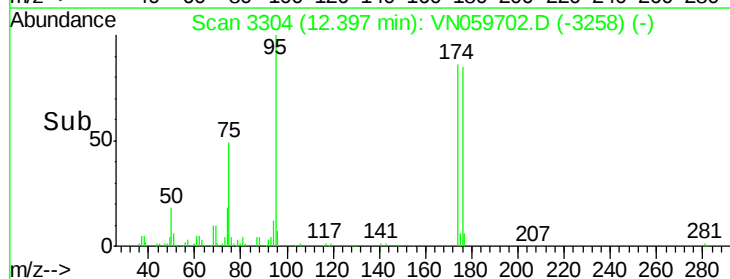
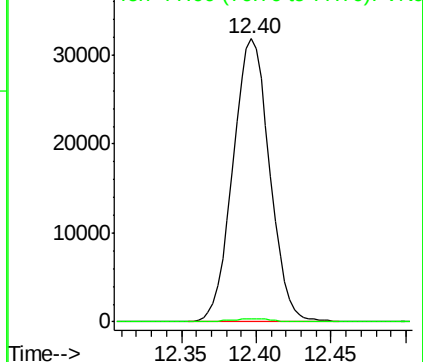
75 100

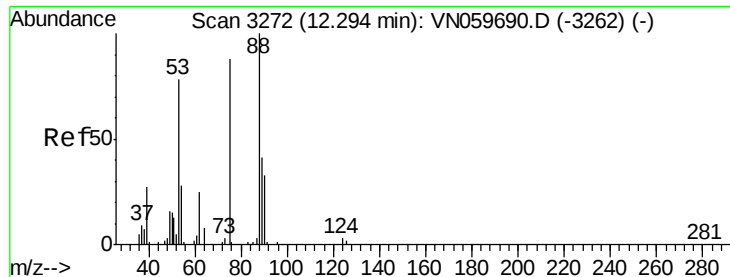
77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

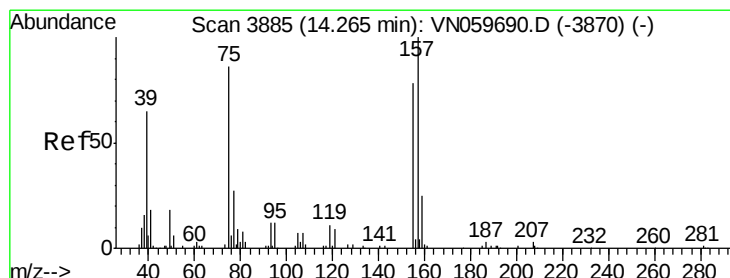
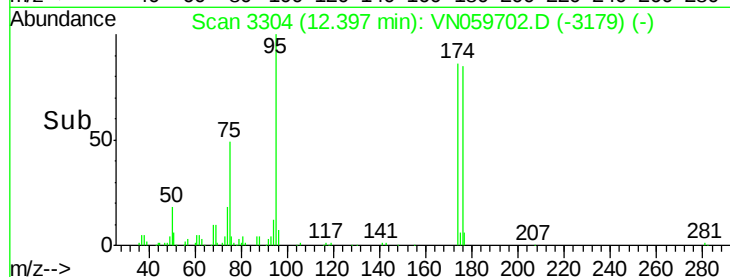
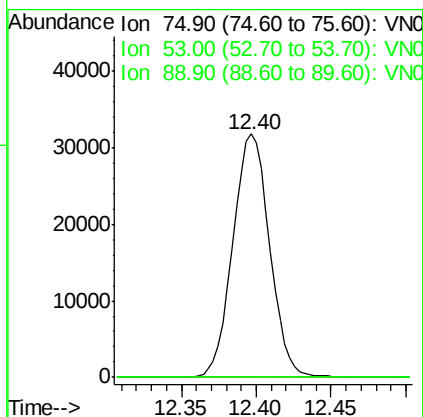
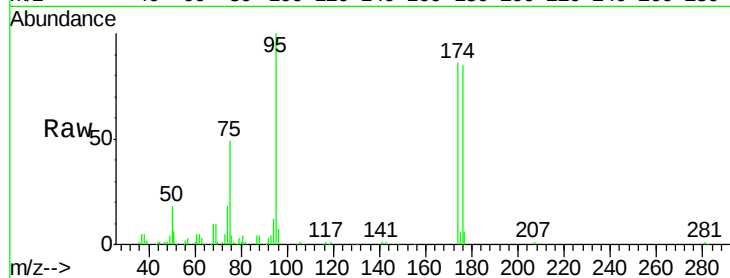




#81
trans-1,4-Dichloro-2-butene
Concen: 68.668 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. 0.10 min
Lab File: VN059702.D
Acq: 14 Jan 2020 12:49

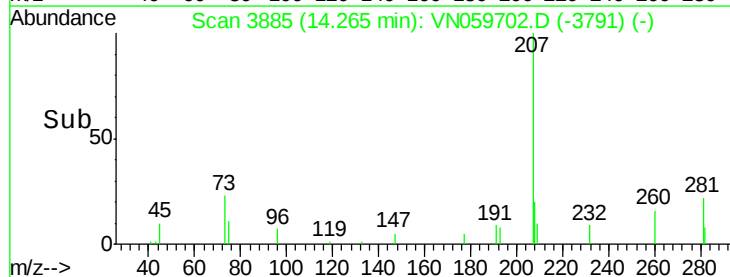
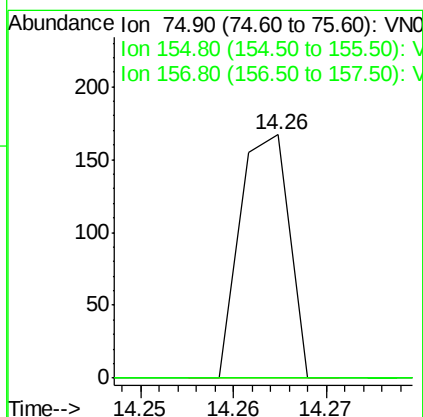
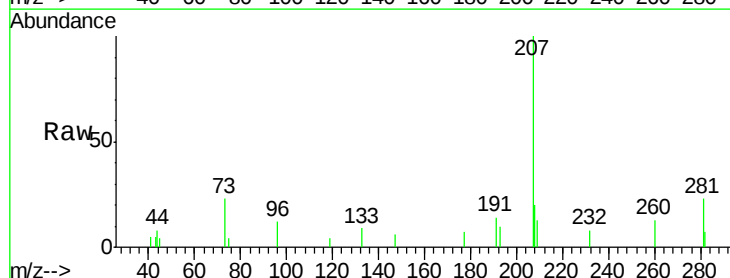
Instrument :
MSVOA_N
ClientSampled :
BU-RO-234

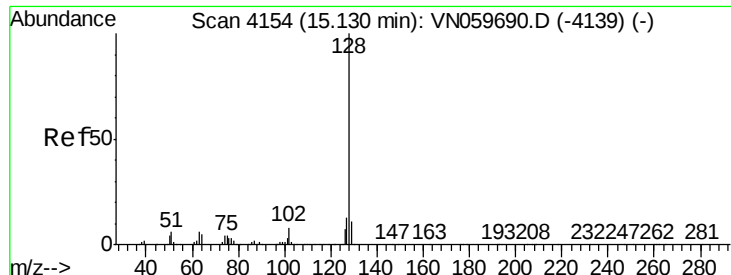
Tgt Ion: 75 Resp: 54393
Ion Ratio Lower Upper
75 100
53 0.0 78.1 117.1#
89 0.0 35.4 53.2#



#92
1,2-Dibromo-3-Chloropropane
Concen: Below Cal
RT: 14.26 min Scan# 3885
Delta R.T. 0.00 min
Lab File: VN059702.D
Acq: 14 Jan 2020 12:49

Tgt Ion: 75 Resp: 62
Ion Ratio Lower Upper
75 100
155 0.0 37.0 110.9#
157 0.0 48.4 145.2#





#95

Naphthalene

Concen: 1.742 ug/l

RT: 15.13 min Scan# 4154

Delta R.T. 0.00 min

Lab File: VN059702.D

Acq: 14 Jan 2020 12:49

Instrument :

MSVOA_N

ClientSampleId :

BU-RO-234

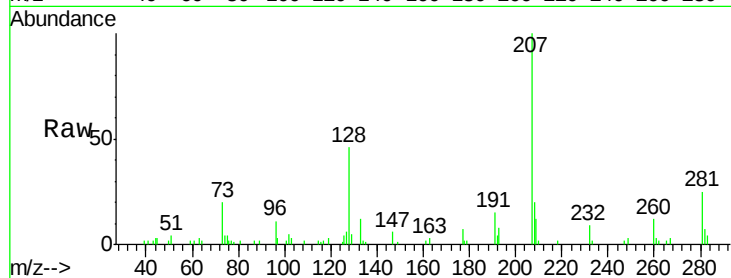
Tgt Ion:128 Resp: 9601

Ion Ratio Lower Upper

128 100

127 12.8 10.4 15.6

129 10.3 8.6 12.8



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

