

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN091319\
 Data File : VN057987.D
 Acq On : 12 Sep 2019 22:18
 Operator : JC/SP
 Sample : K4680-25
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 36 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 T1-4(0)

Quant Time: Sep 13 04:51:36 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N091019W.M
 Quant Title : SW846 8260
 QLast Update : Tue Sep 10 03:02:13 2019
 Response via : Initial Calibration

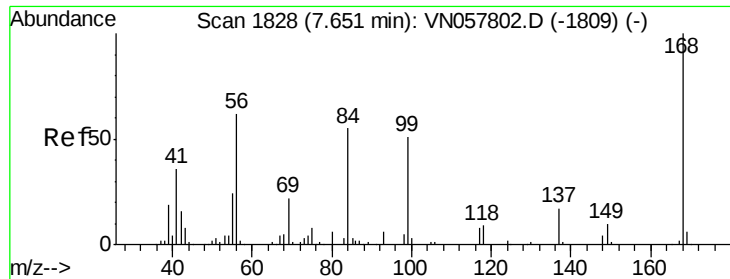
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	271335	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	479154	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	443969	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	231295	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.01	65	326337	59.38	ug/l	0.00
Spiked Amount	50.000		Recovery	=	118.76%	
35) Dibromofluoromethane	7.58	113	225274	50.94	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.88%	
50) Toluene-d8	10.09	98	872270	50.80	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.60%	
62) 4-Bromofluorobenzene	12.41	95	293351	44.83	ug/l	0.00
Spiked Amount	50.000		Recovery	=	89.66%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.53	94	31	Below Cal	#	2
11) Tert butyl alcohol	4.77	59	207	0.311	ug/l #	72
16) Acetone	3.80	43	12295	6.825	ug/l #	89
18) Methyl Acetate	4.30	43	2793	0.581	ug/l #	96
20) Methylene Chloride	4.53	84	6341	0.633	ug/l #	82
25) 2-Butanone	6.82	43	1631	0.625	ug/l #	83
29) Tetrahydrofuran	7.19	42	322	0.200	ug/l #	49
31) Cyclohexane	7.65	56	6834	Below Cal	#	1
36) 1,1-Dichloropropene	7.65	75	24469	4.403	ug/l #	51
38) Carbon Tetrachloride	7.65	117	27650	5.450	ug/l #	16
43) Isopropyl Acetate	8.16	43	115954	12.010	ug/l #	83
45) 1,2-Dichloropropane	9.26	63	1827	0.375	ug/l #	44
48) Methyl methacrylate	9.17	41	6499	1.327	ug/l #	13
51) 4-Methyl-2-Pentanone	9.98	43	4227	0.740	ug/l #	65
54) cis-1,3-Dichloropropene	9.90	75	39039	5.716	ug/l #	65
56) Ethyl methacrylate	10.54	69	2000	0.298	ug/l #	1
57) 1,3-Dichloropropane	10.77	76	6172	0.802	ug/l #	43
59) 2-Hexanone	10.76	43	93921	21.931	ug/l #	54
71) Bromoform	12.40	173	539	0.214	ug/l #	30
74) N-amyl acetate	12.03	43	3033	0.388	ug/l #	50
76) 1,2,3-Trichloropropane	12.41	75	164322	31.405	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.41	75	164322	110.516	ug/l #	6
95) Naphthalene	15.14	128	904	Below Cal	#	78

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

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ALS Vial : 36 Sample Multiplier: 1



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1829

Delta R.T. 0.00 min

Lab File: VN057987.D

Acq: 12 Sep 2019 22:18

Instrument :

MSVOA_N

ClientSampled :

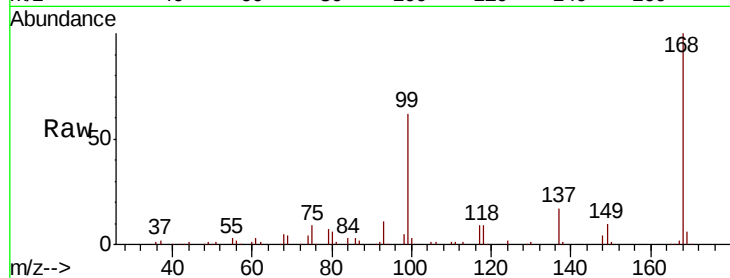
T1-4-(0)

Tgt Ion:168 Resp: 271335

Ion Ratio Lower Upper

168 100

99 61.7 48.0 72.0



Abundance Ion 167.90 (167.60 to 168.60): VN057802.D (-1809) (-)

Ion 98.90 (98.60 to 99.60): VN057802.D (-1809) (-)

7.65

120000

100000

80000

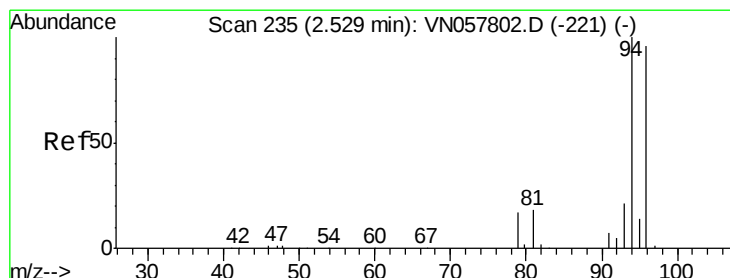
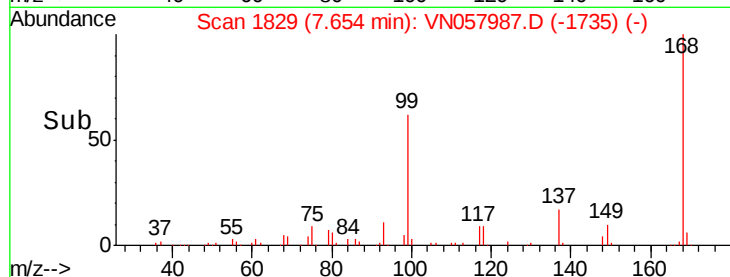
60000

40000

20000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 2.53 min Scan# 234

Delta R.T. -0.00 min

Lab File: VN057987.D

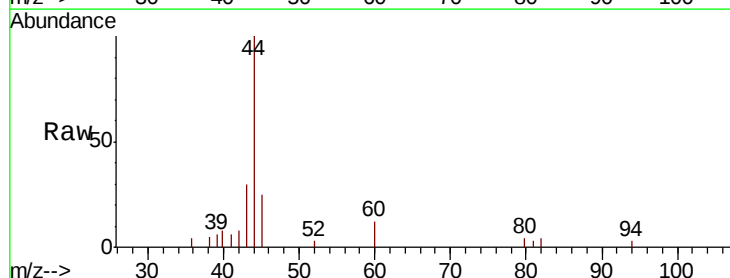
Acq: 12 Sep 2019 22:18

Tgt Ion: 94 Resp: 31

Ion Ratio Lower Upper

94 100

96 0.0 77.0 115.4#



Abundance Ion 93.90 (93.60 to 94.60): VN057802.D (-221) (-)

Ion 95.90 (95.60 to 96.60): VN057802.D (-221) (-)

2.53

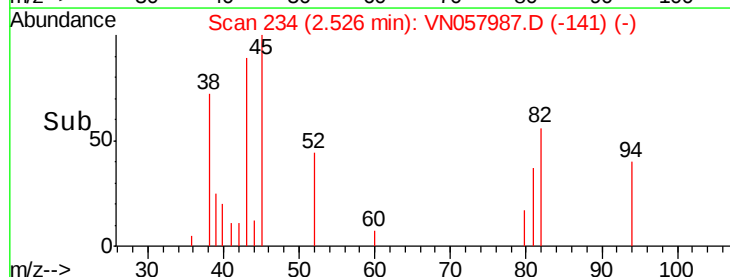
150

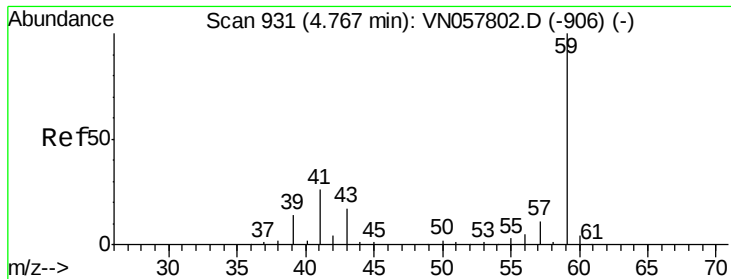
100

50

0

Time-->

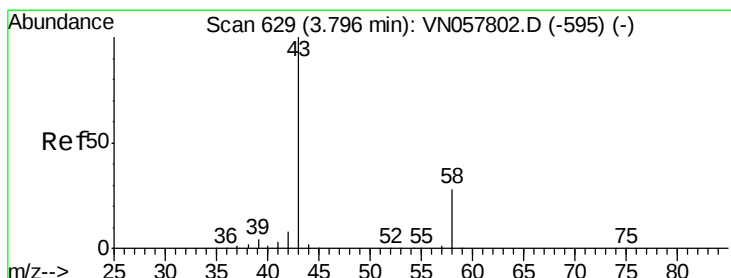
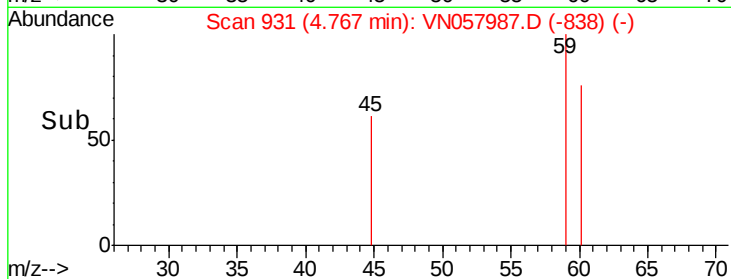
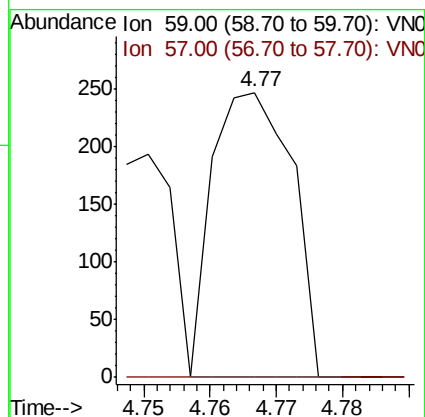
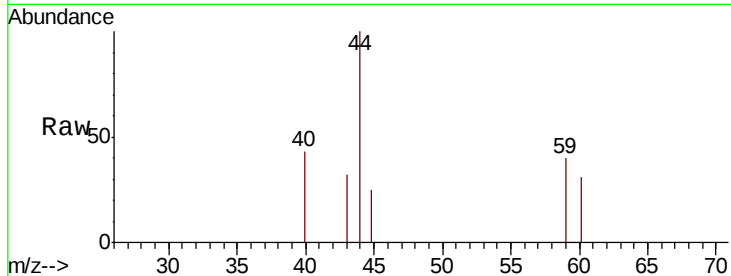




#11
Tert butyl alcohol
Concen: 0.311 ug/l
RT: 4.77 min Scan# 931
Delta R.T. 0.00 min
Lab File: VN057987.D
Acq: 12 Sep 2019 22:18

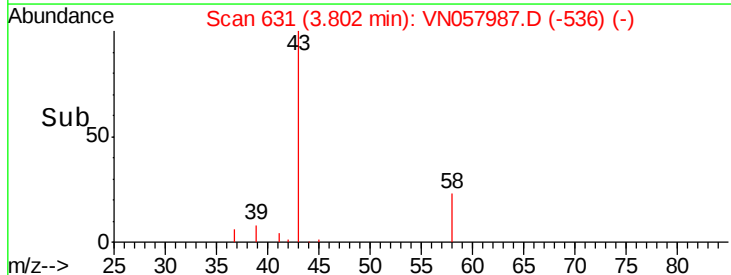
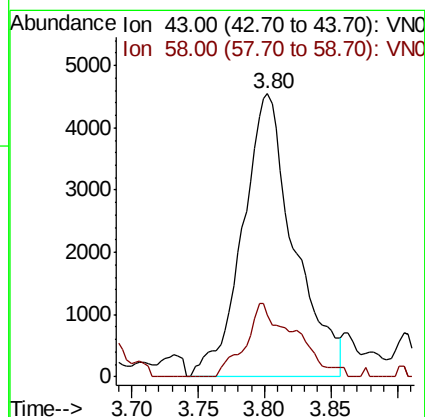
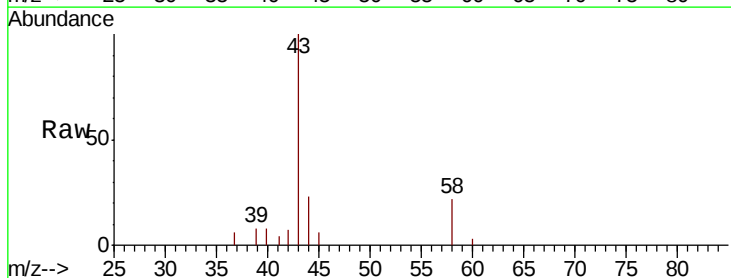
Instrument :
MSVOA_N
ClientSampled :
T1-4-(0)

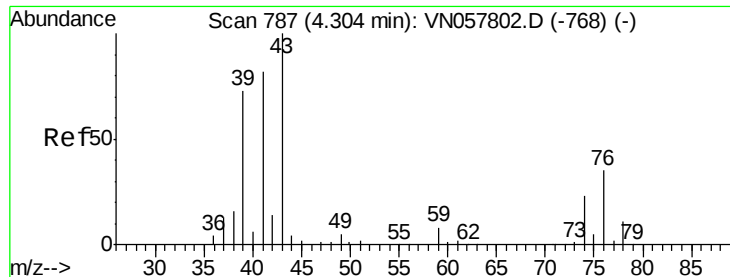
Tgt Ion: 59 Resp: 207
Ion Ratio Lower Upper
59 100
57 0.0 8.4 12.6#



#16
Acetone
Concen: 6.825 ug/l
RT: 3.80 min Scan# 631
Delta R.T. 0.01 min
Lab File: VN057987.D
Acq: 12 Sep 2019 22:18

Tgt Ion: 43 Resp: 12295
Ion Ratio Lower Upper
43 100
58 21.7 22.2 33.2#

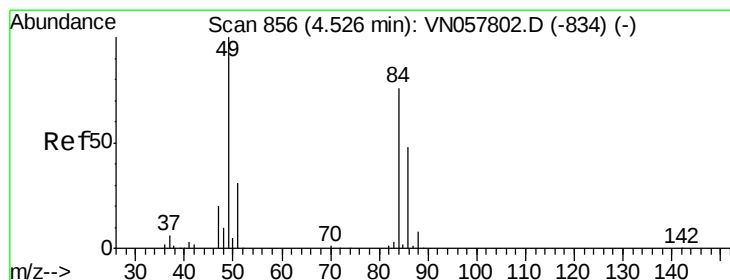
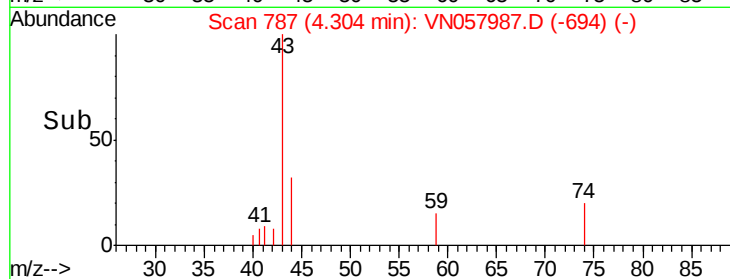
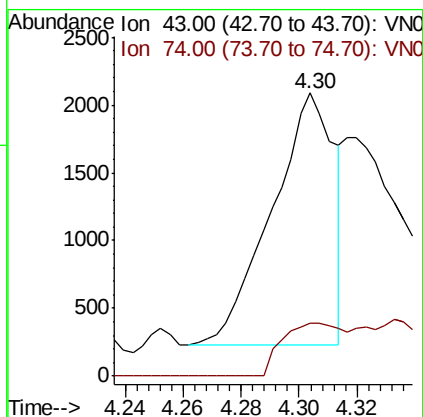
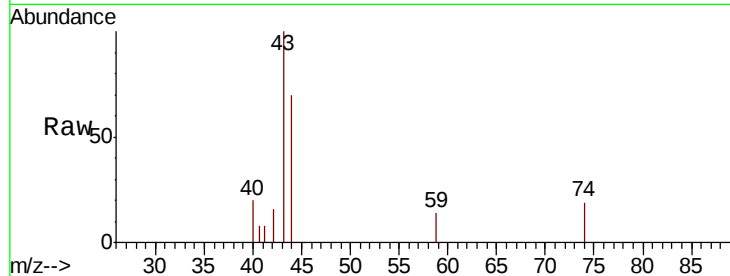




#18
Methyl Acetate
Concen: 0.581 ug/l
RT: 4.30 min Scan# 787
Delta R.T. 0.00 min
Lab File: VN057987.D
Acq: 12 Sep 2019 22:18

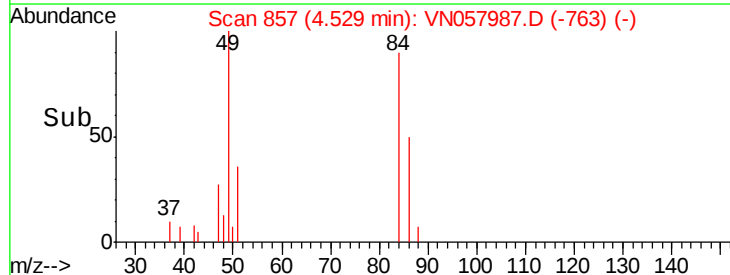
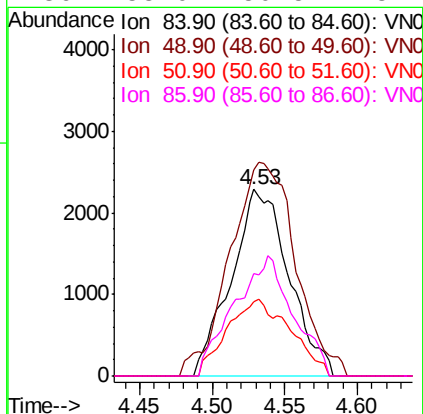
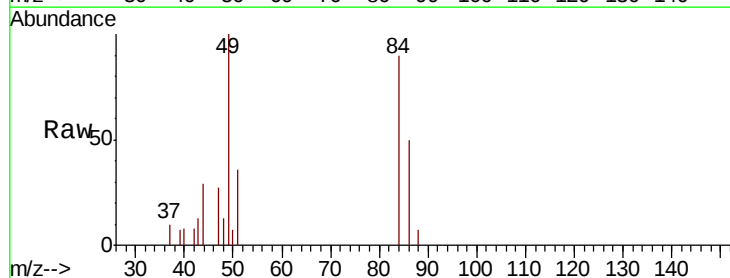
Instrument :
MSVOA_N
ClientSampleId :
T1-4-(0)

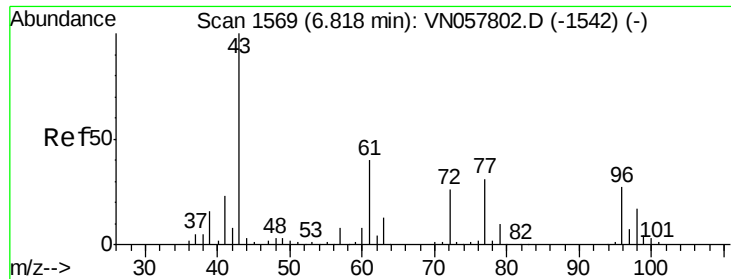
Tgt Ion: 43 Resp: 2793
Ion Ratio Lower Upper
43 100
74 20.7 17.9 26.9



#20
Methylene Chloride
Concen: 0.633 ug/l
RT: 4.53 min Scan# 857
Delta R.T. 0.00 min
Lab File: VN057987.D
Acq: 12 Sep 2019 22:18

Tgt Ion: 84 Resp: 6341
Ion Ratio Lower Upper
84 100
49 101.0 104.8 157.2#
51 39.5 33.0 49.4
86 55.0 50.5 75.7

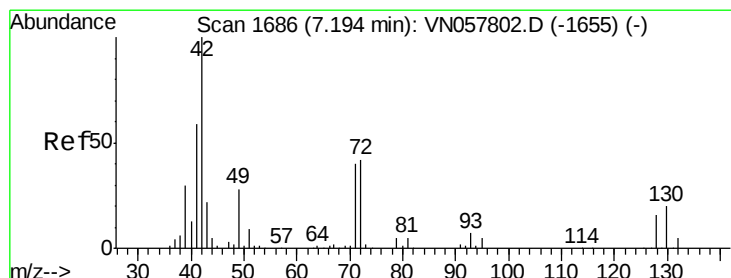
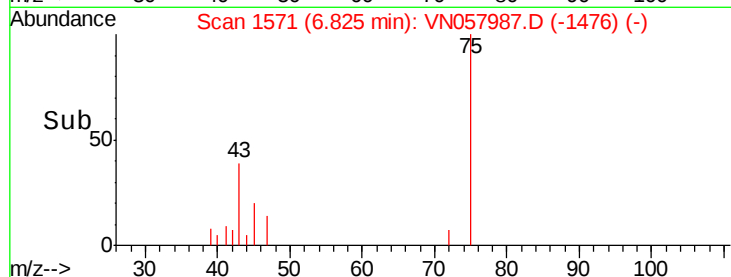
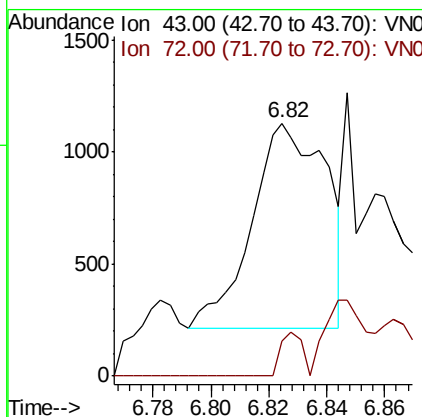
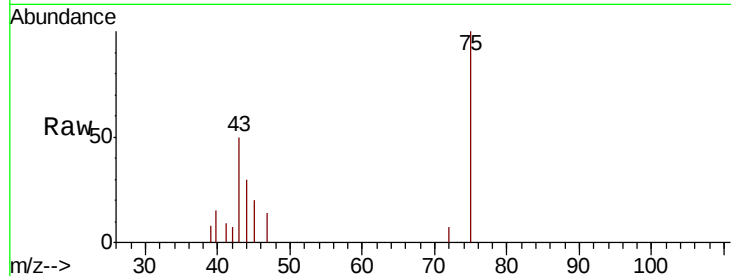




#25
2-Butanone
Concen: 0.625 ug/l
RT: 6.82 min Scan# 1571
Delta R.T. 0.01 min
Lab File: VN057987.D
Acq: 12 Sep 2019 22:18

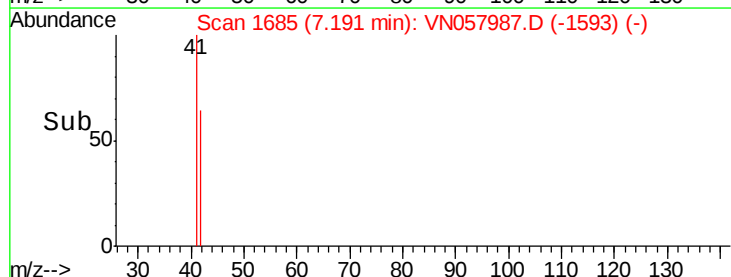
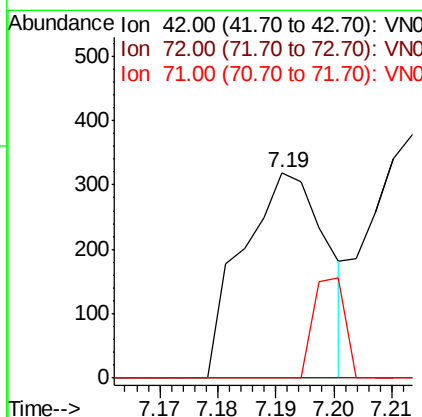
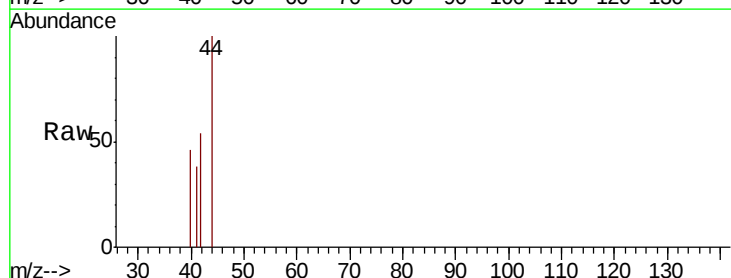
Instrument :
MSVOA_N
ClientSampled :
T1-4-(0)

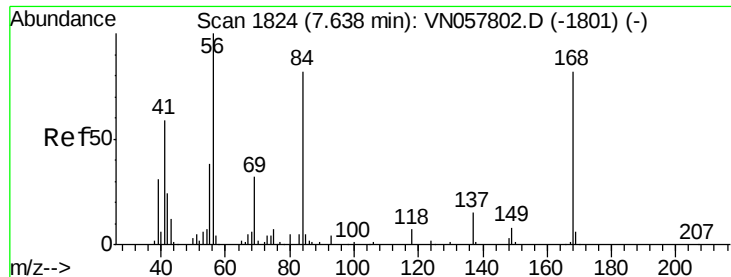
Tgt Ion: 43 Resp: 1631
Ion Ratio Lower Upper
43 100
72 17.1 20.6 30.8#



#29
Tetrahydrofuran
Concen: 0.200 ug/l
RT: 7.19 min Scan# 1685
Delta R.T. -0.00 min
Lab File: VN057987.D
Acq: 12 Sep 2019 22:18

Tgt Ion: 42 Resp: 322
Ion Ratio Lower Upper
42 100
72 0.0 33.7 50.5#
71 18.3 31.9 47.9#

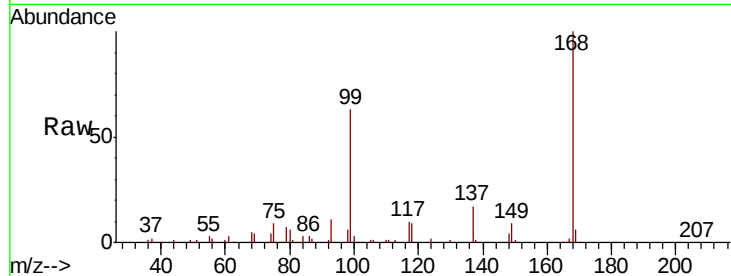




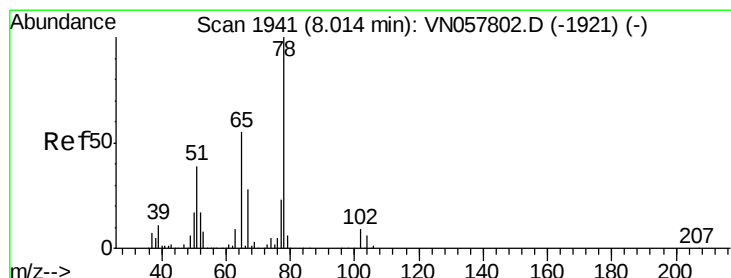
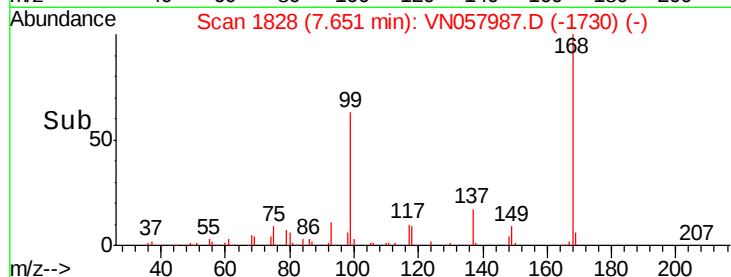
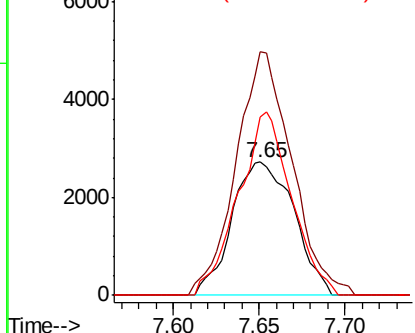
#31
Cyclohexane
Concen: Below Cal
RT: 7.65 min Scan# 1828
Delta R.T. 0.01 min
Lab File: VN057987.D
Acq: 12 Sep 2019 22:18

Instrument :
MSVOA_N
ClientSampled :
T1-4-(0)

Tgt Ion: 56 Resp: 6834
Ion Ratio Lower Upper
56 100
69 182.5 25.9 38.9#
84 133.3 65.6 98.4#

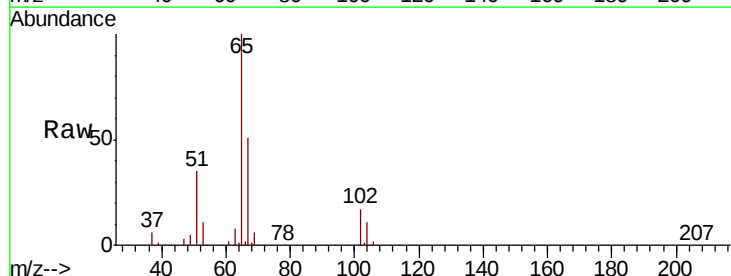


Abundance Ion 56.00 (55.70 to 56.70): VNC
Ion 69.00 (68.70 to 69.70): VNC
Ion 84.00 (83.70 to 84.70): VNC

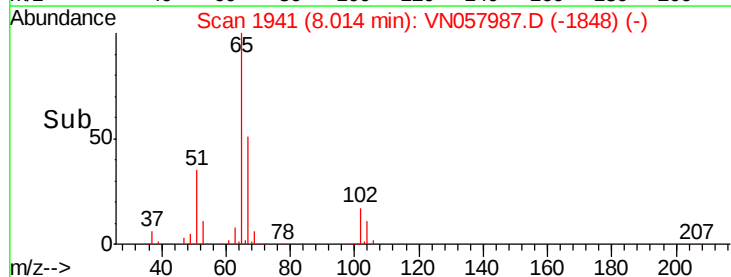
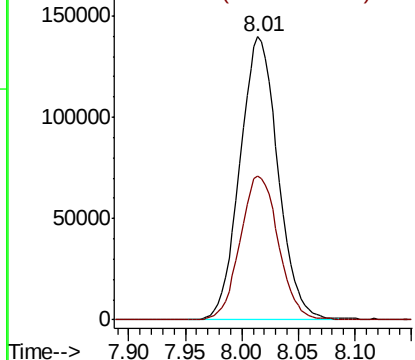


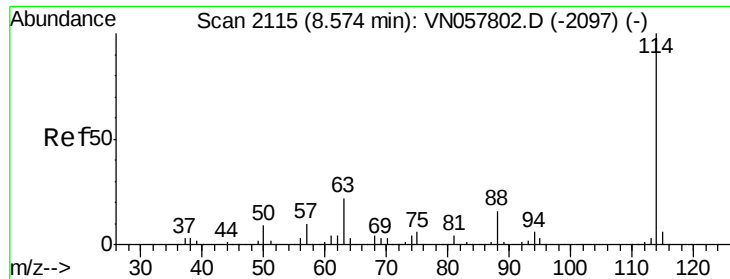
#33
1,2-Dichloroethane-d4
Concen: 59.381 ug/l
RT: 8.01 min Scan# 1941
Delta R.T. 0.00 min
Lab File: VN057987.D
Acq: 12 Sep 2019 22:18

Tgt Ion: 65 Resp: 326337
Ion Ratio Lower Upper
65 100
67 51.4 0.0 104.0



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

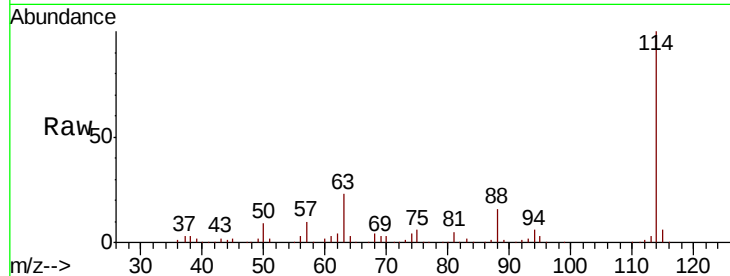




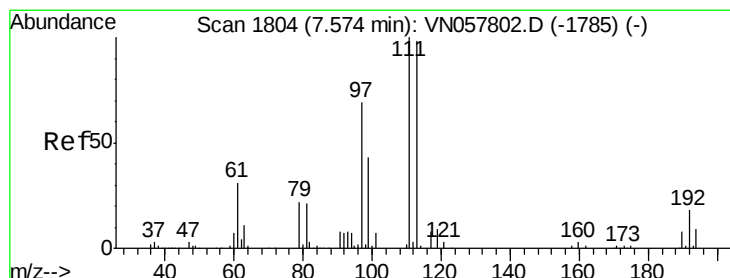
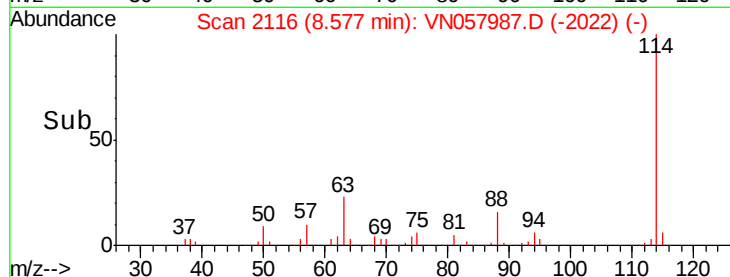
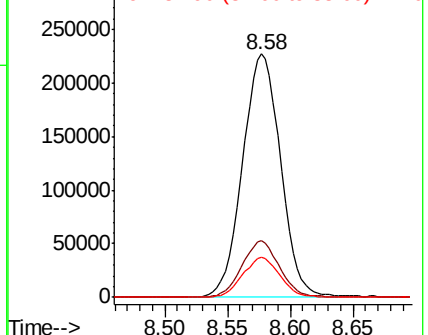
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2116
 Delta R.T. 0.00 min
 Lab File: VN057987.D
 Acq: 12 Sep 2019 22:18

Instrument :
 MSVOA_N
 ClientSampleId :
 T1-4-(0)

Tgt Ion:114 Resp: 479154
 Ion Ratio Lower Upper
 114 100
 63 23.2 0.0 44.0
 88 16.4 0.0 31.4

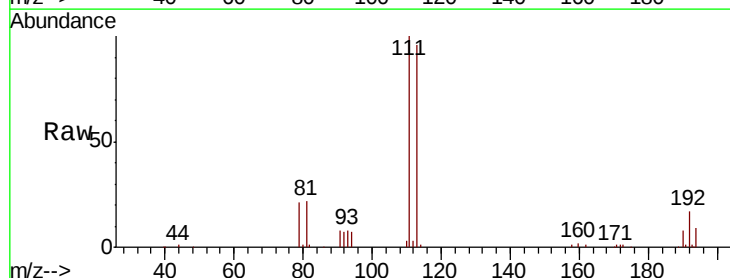


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): V
 Ion 87.90 (87.60 to 88.60): V

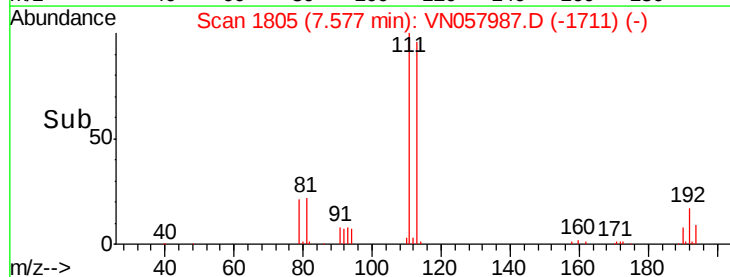
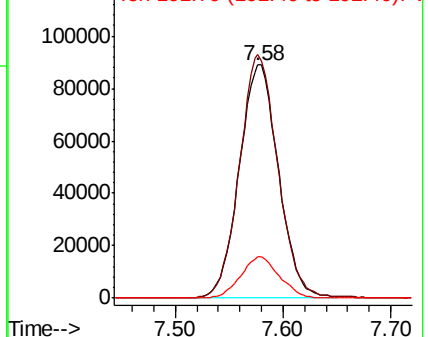


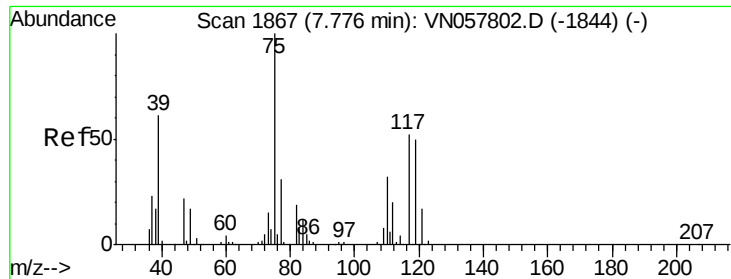
#35
 Dibromofluoromethane
 Concen: 50.939 ug/l
 RT: 7.58 min Scan# 1805
 Delta R.T. 0.00 min
 Lab File: VN057987.D
 Acq: 12 Sep 2019 22:18

Tgt Ion:113 Resp: 225274
 Ion Ratio Lower Upper
 113 100
 111 102.5 81.3 121.9
 192 17.5 14.6 22.0



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

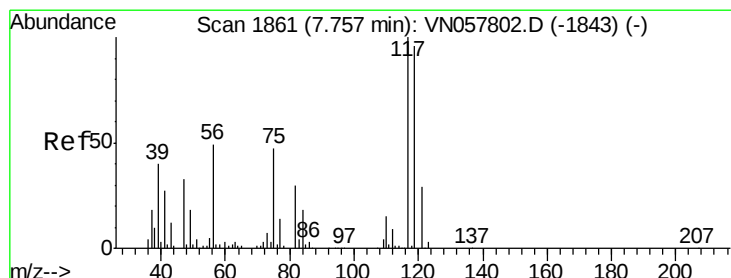
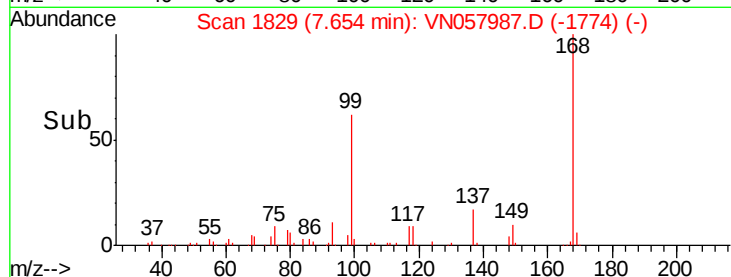
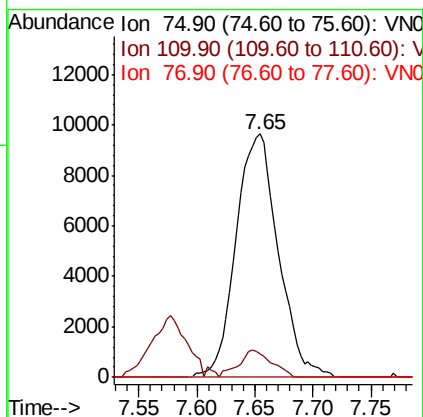
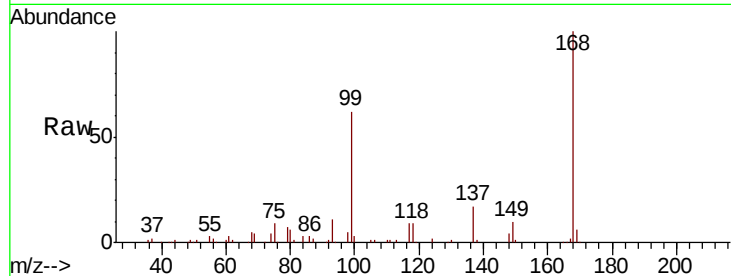




#36
 1,1-Dichloropropene
 Concen: 4.403 ug/l
 RT: 7.65 min Scan# 1829
 Delta R.T. -0.12 min
 Lab File: VN057987.D
 Acq: 12 Sep 2019 22:18

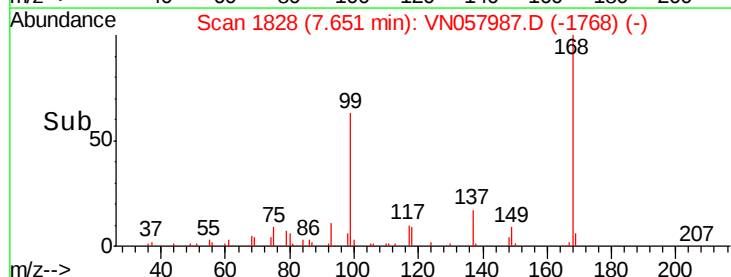
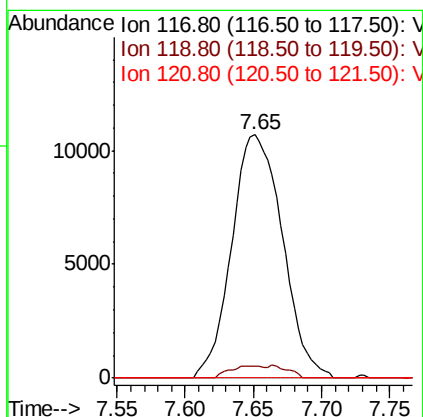
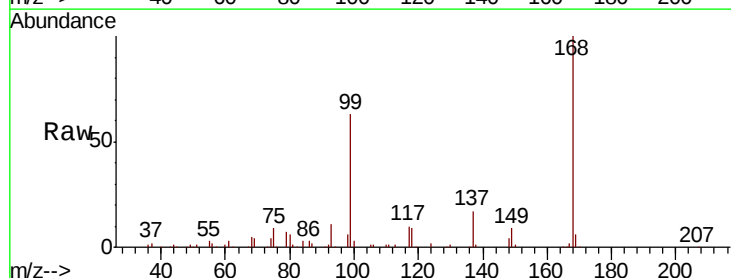
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 MSVOA_N
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 T1-4-(0)

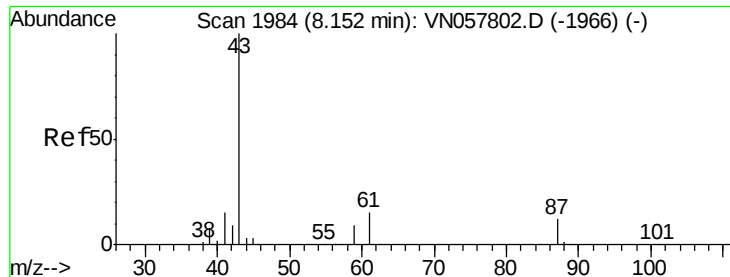
Tgt Ion: 75 Resp: 24469
 Ion Ratio Lower Upper
 75 100
 110 8.6 16.3 48.9#
 77 0.0 25.0 37.4#



#38
 Carbon Tetrachloride
 Concen: 5.450 ug/l
 RT: 7.65 min Scan# 1828
 Delta R.T. -0.11 min
 Lab File: VN057987.D
 Acq: 12 Sep 2019 22:18

Tgt Ion: 117 Resp: 27650
 Ion Ratio Lower Upper
 117 100
 119 4.8 76.9 115.3#
 121 0.0 23.4 35.2#





#43

Isopropyl Acetate

Concen: 12.010 ug/l

RT: 8.16 min Scan# 1985

Delta R.T. 0.00 min

Lab File: VN057987.D

Acq: 12 Sep 2019 22:18

Instrument :

MSVOA_N

ClientSampled :

T1-4-(0)

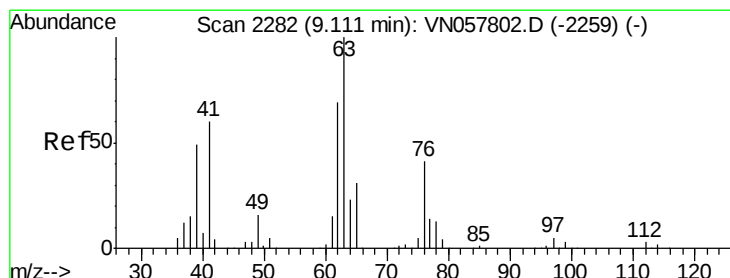
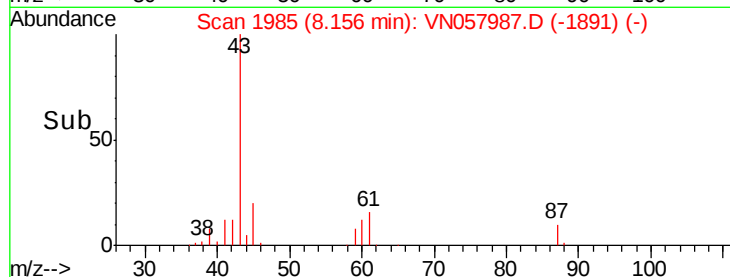
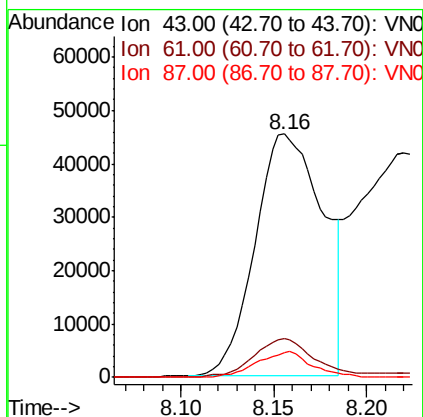
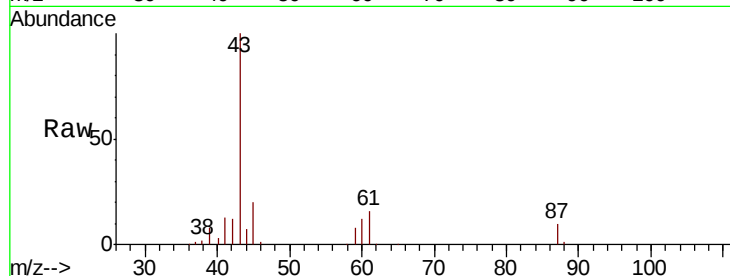
Tgt Ion: 43 Resp: 115954

Ion Ratio Lower Upper

43 100

61 14.4 20.1 30.1#

87 8.6 9.5 14.3#



#45

1,2-Dichloropropane

Concen: 0.375 ug/l

RT: 9.26 min Scan# 2329

Delta R.T. 0.15 min

Lab File: VN057987.D

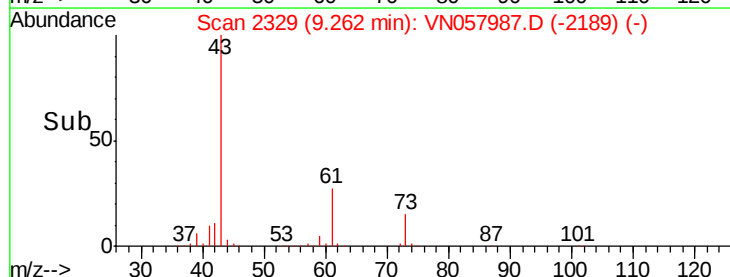
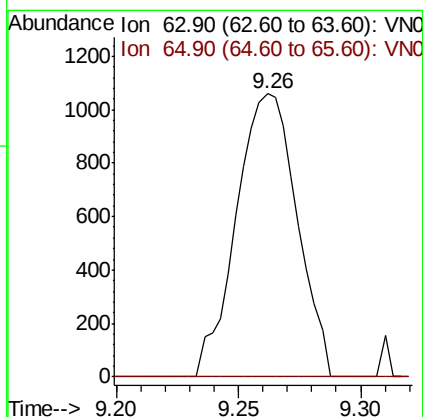
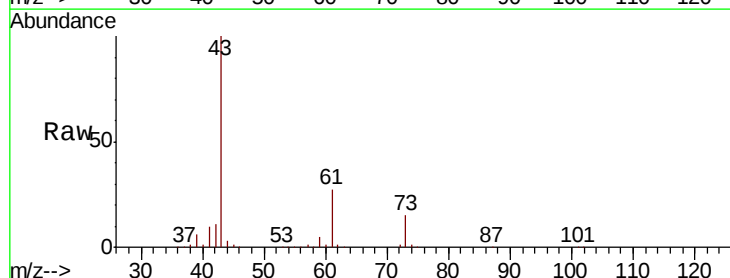
Acq: 12 Sep 2019 22:18

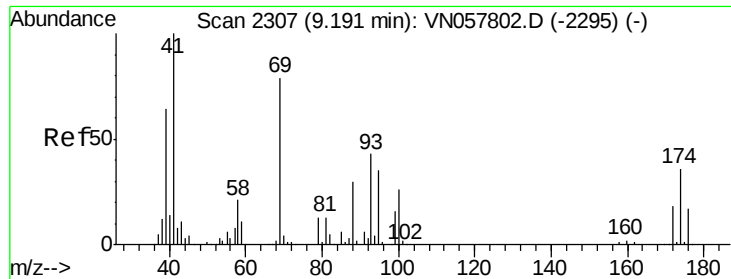
Tgt Ion: 63 Resp: 1827

Ion Ratio Lower Upper

63 100

65 0.0 24.8 37.2#

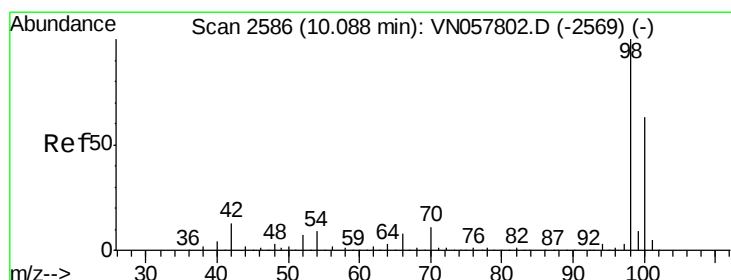
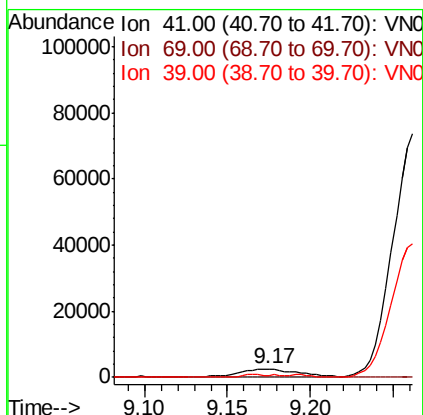
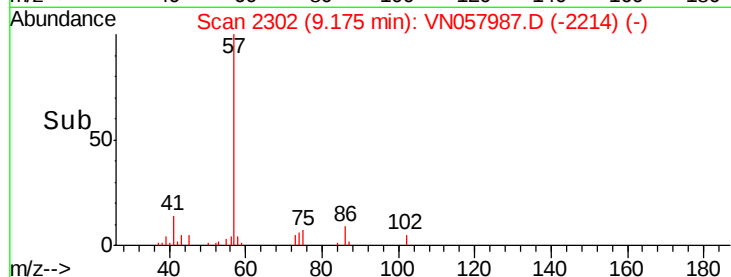
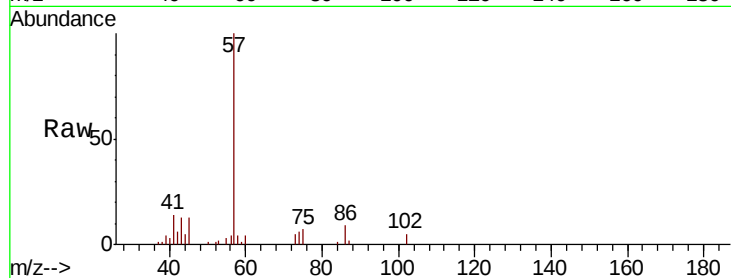




#48
Methyl methacrylate
Concen: 1.327 ug/l
RT: 9.17 min Scan# 2302
Delta R.T. -0.02 min
Lab File: VN057987.D
Acq: 12 Sep 2019 22:18

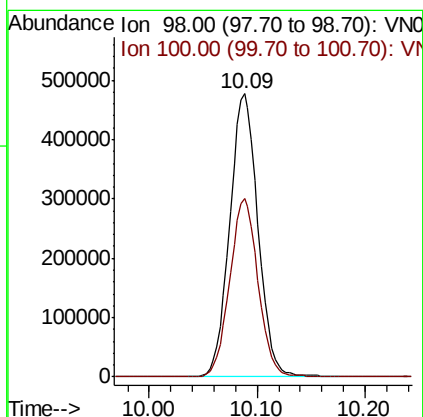
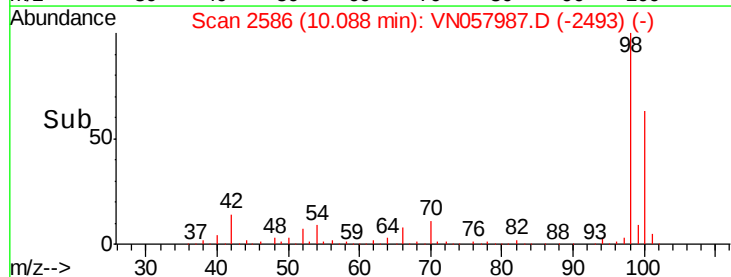
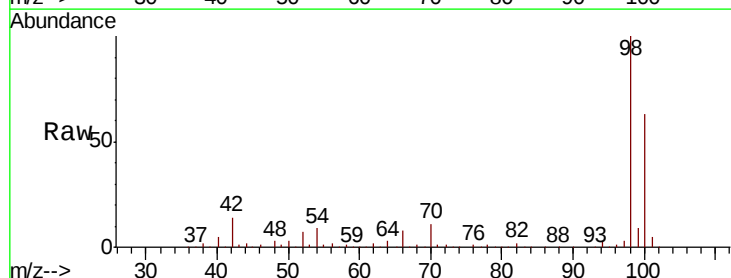
Instrument :
MSVOA_N
ClientSampleId :
T1-4-(0)

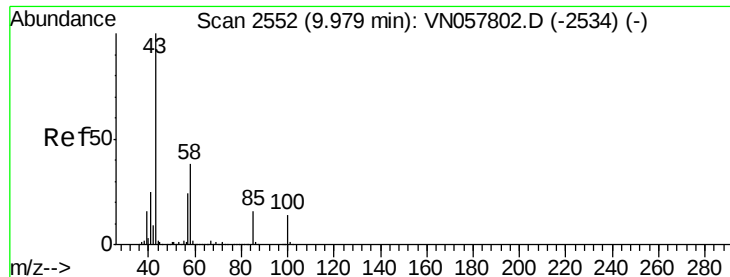
Tgt Ion: 41 Resp: 6499
Ion Ratio Lower Upper
41 100
69 0.0 62.7 94.1#
39 0.0 52.7 79.1#



#50
Toluene-d8
Concen: 50.802 ug/l
RT: 10.09 min Scan# 2586
Delta R.T. 0.00 min
Lab File: VN057987.D
Acq: 12 Sep 2019 22:18

Tgt Ion: 98 Resp: 872270
Ion Ratio Lower Upper
98 100
100 63.1 50.3 75.5

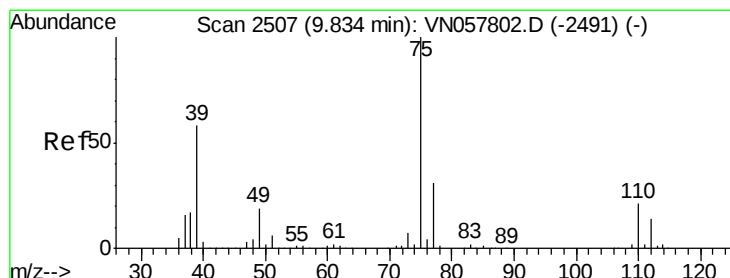
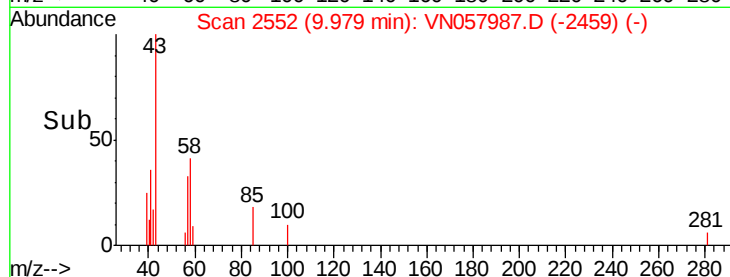
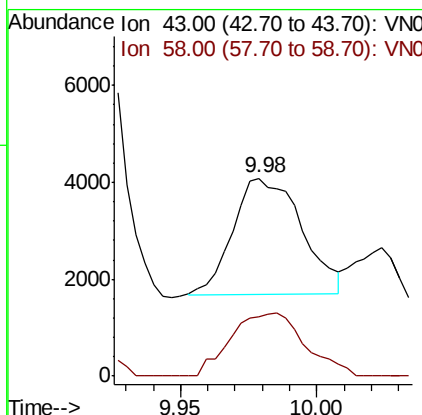
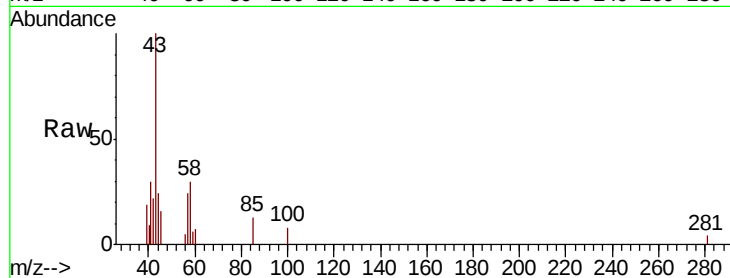




#51
 4-Methyl-2-Pentanone
 Concen: 0.740 ug/l
 RT: 9.98 min Scan# 2552
 Delta R.T. 0.00 min
 Lab File: VN057987.D
 Acq: 12 Sep 2019 22:18

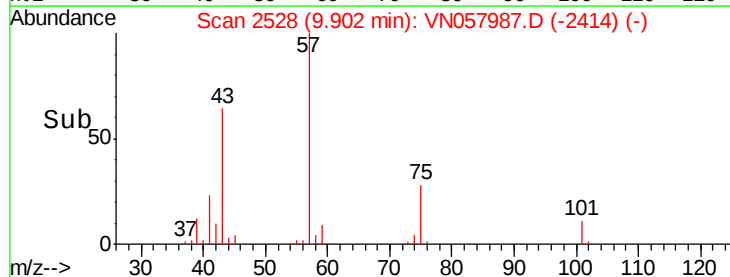
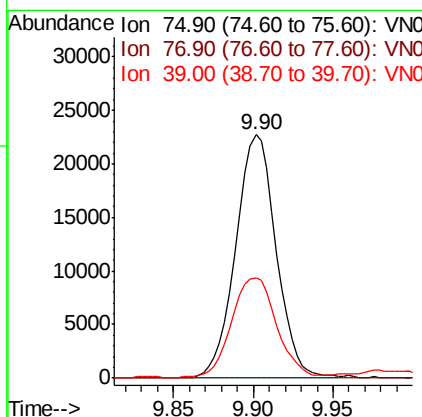
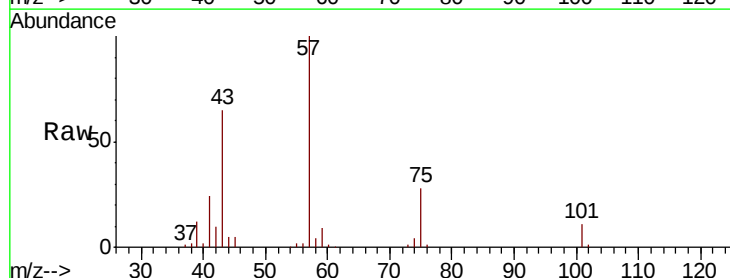
Instrument :
 MSVOA_N
 ClientSampled :
 T1-4-(0)

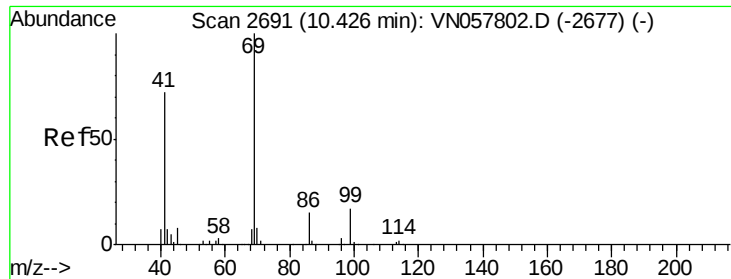
Tgt Ion: 43 Resp: 4227
 Ion Ratio Lower Upper
 43 100
 58 58.2 29.8 44.6#



#54
 cis-1,3-Dichloropropene
 Concen: 5.716 ug/l
 RT: 9.90 min Scan# 2528
 Delta R.T. 0.07 min
 Lab File: VN057987.D
 Acq: 12 Sep 2019 22:18

Tgt Ion: 75 Resp: 39039
 Ion Ratio Lower Upper
 75 100
 77 0.0 24.8 37.2#
 39 40.5 46.2 69.4#

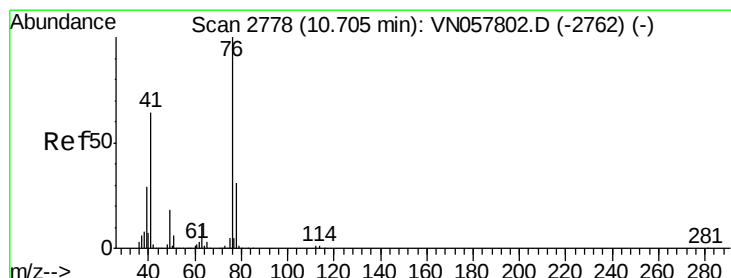
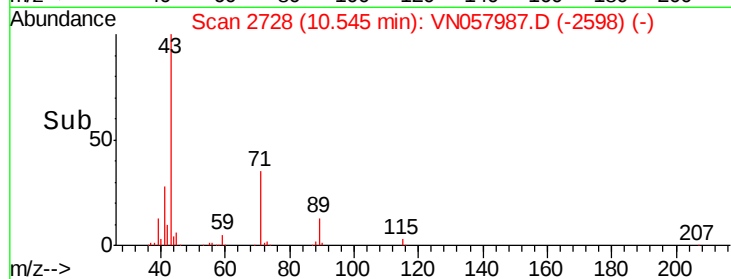
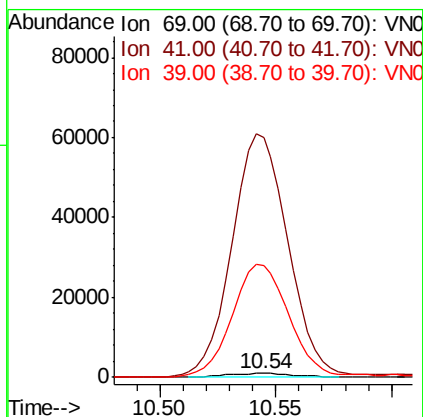
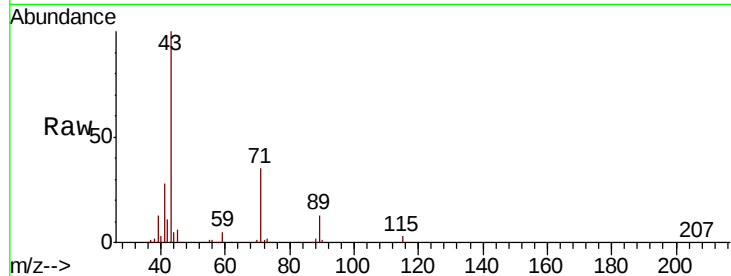




#56
 Ethyl methacrylate
 Concen: 0.298 ug/l
 RT: 10.54 min Scan# 2728
 Delta R.T. 0.12 min
 Lab File: VN057987.D
 Acq: 12 Sep 2019 22:18

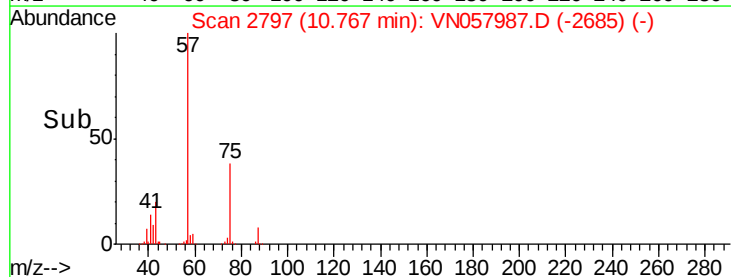
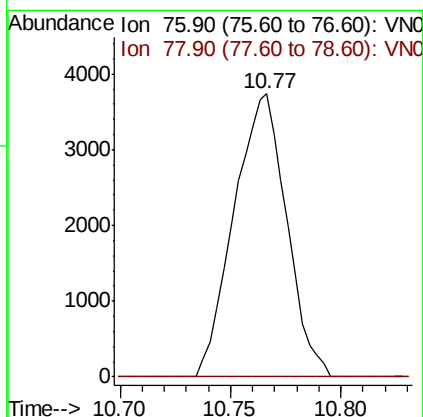
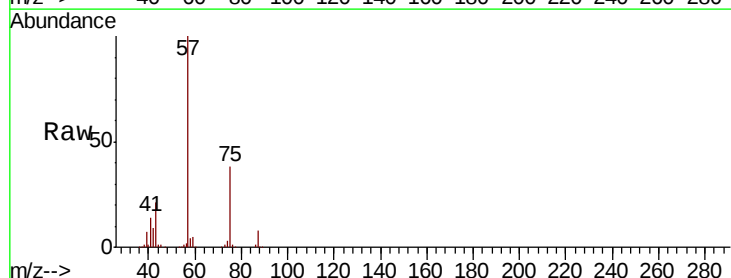
Instrument :
 MSVOA_N
 ClientSampled :
 T1-4-(0)

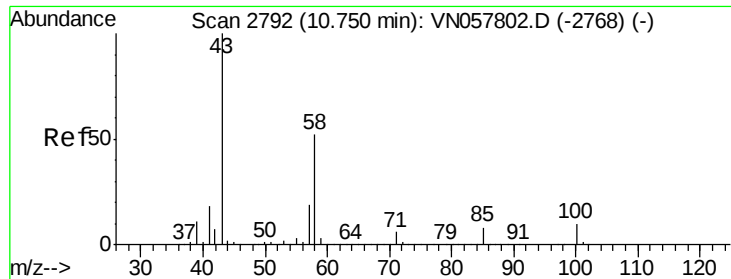
Tgt Ion: 69 Resp: 2000
 Ion Ratio Lower Upper
 69 100
 41 5135.4 56.7 85.1#
 39 2433.1 36.3 54.5#



#57
 1,3-Dichloropropane
 Concen: 0.802 ug/l
 RT: 10.77 min Scan# 2797
 Delta R.T. 0.06 min
 Lab File: VN057987.D
 Acq: 12 Sep 2019 22:18

Tgt Ion: 76 Resp: 6172
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.4 38.2#

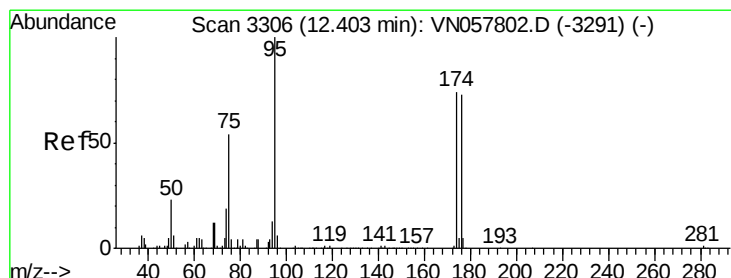
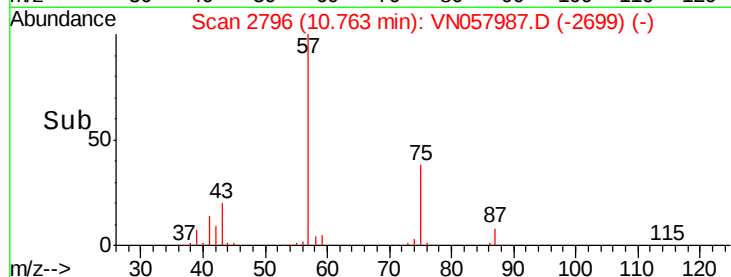
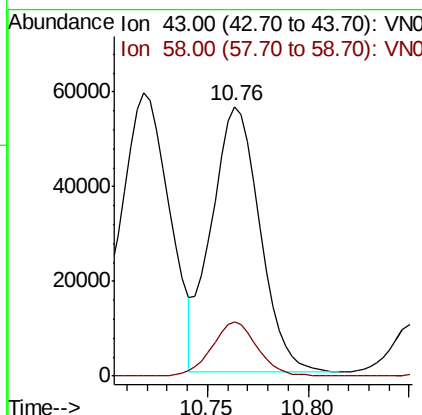
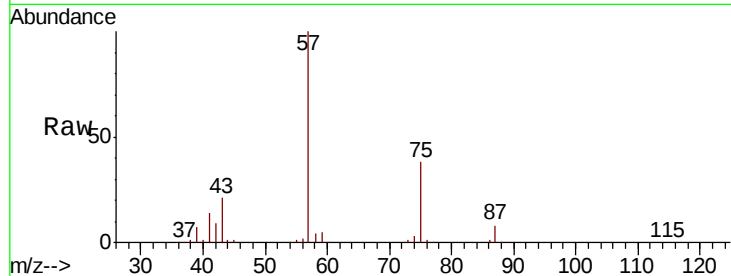




#59
2-Hexanone
Concen: 21.931 ug/l
RT: 10.76 min Scan# 2796
Delta R.T. 0.01 min
Lab File: VN057987.D
Acq: 12 Sep 2019 22:18

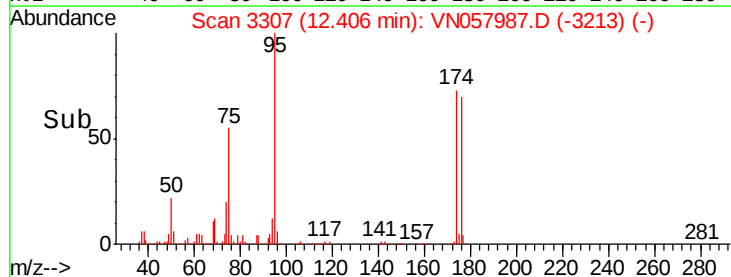
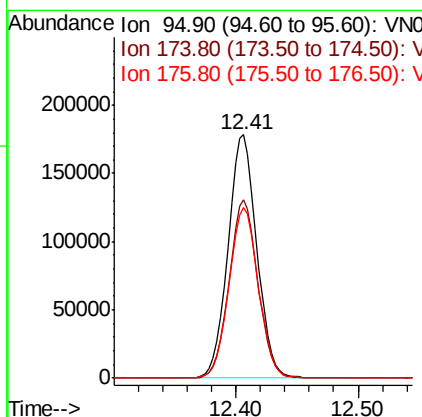
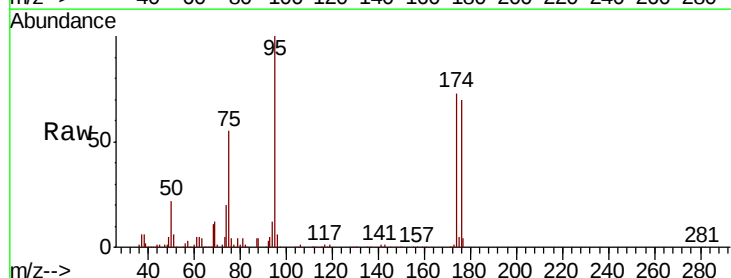
Instrument :
MSVOA_N
ClientSampleId :
T1-4-(0)

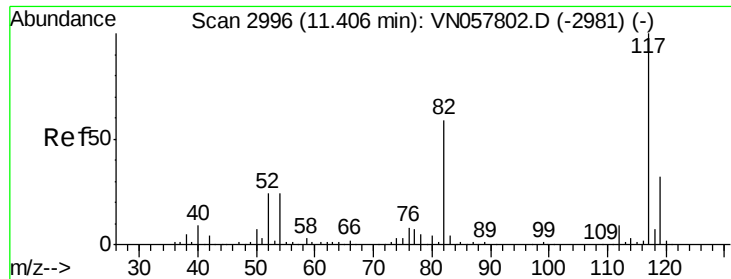
Tgt Ion: 43 Resp: 93921
Ion Ratio Lower Upper
43 100
58 19.1 25.6 76.8#



#62
4-Bromofluorobenzene
Concen: 44.832 ug/l
RT: 12.41 min Scan# 3307
Delta R.T. 0.00 min
Lab File: VN057987.D
Acq: 12 Sep 2019 22:18

Tgt Ion: 95 Resp: 293351
Ion Ratio Lower Upper
95 100
174 73.5 0.0 150.2
176 71.3 0.0 146.0

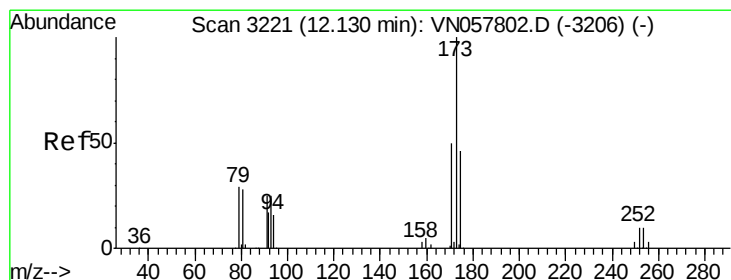
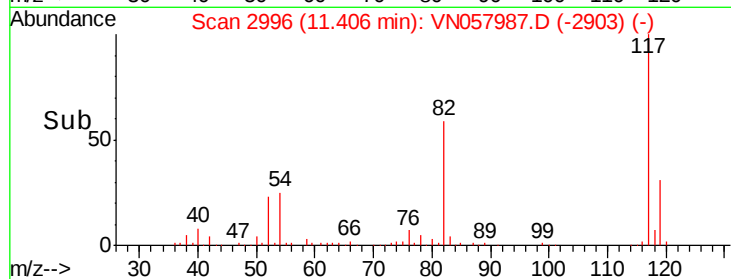
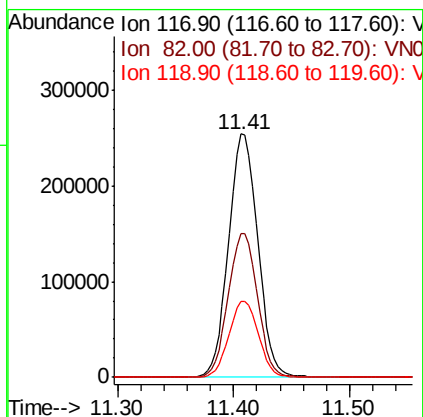
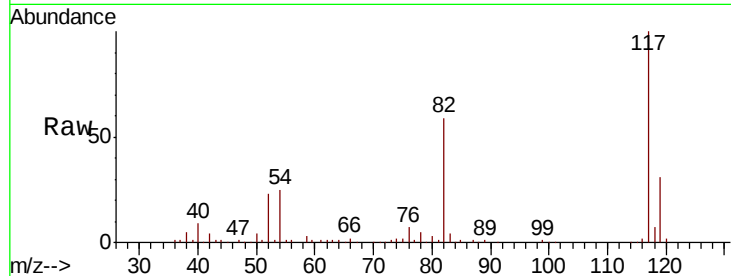




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN057987.D
Acq: 12 Sep 2019 22:18

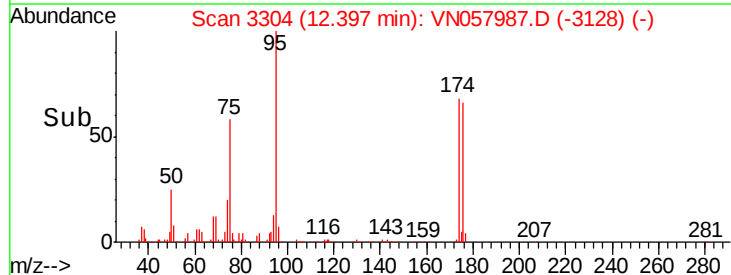
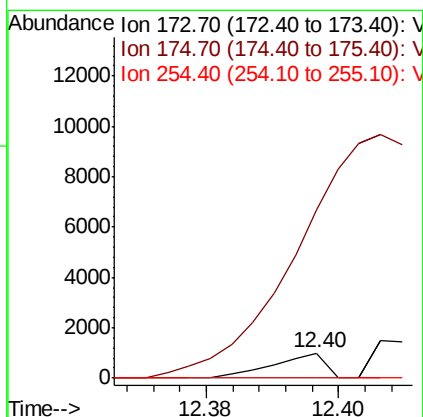
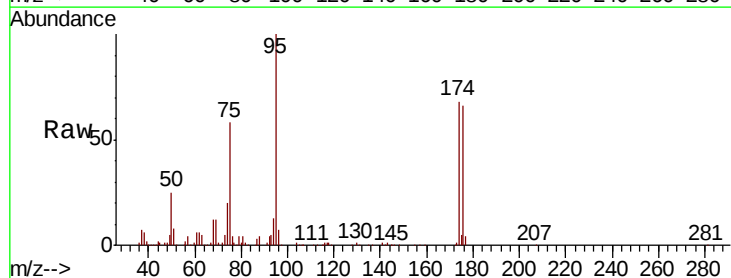
Instrument :
MSVOA_N
ClientSampleId :
T1-4-(0)

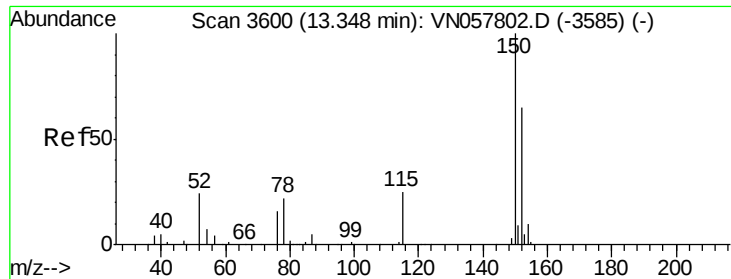
Tgt Ion:117 Resp: 443969
Ion Ratio Lower Upper
117 100
82 58.8 47.2 70.8
119 31.1 25.3 37.9



#71
Bromoform
Concen: 0.214 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. 0.27 min
Lab File: VN057987.D
Acq: 12 Sep 2019 22:18

Tgt Ion:173 Resp: 539
Ion Ratio Lower Upper
173 100
175 0.0 23.5 70.6#
254 0.0 0.1 0.1#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3600

Delta R.T. 0.00 min

Lab File: VN057987.D

Acq: 12 Sep 2019 22:18

Instrument :

MSVOA_N

ClientSampleId :

T1-4(0)

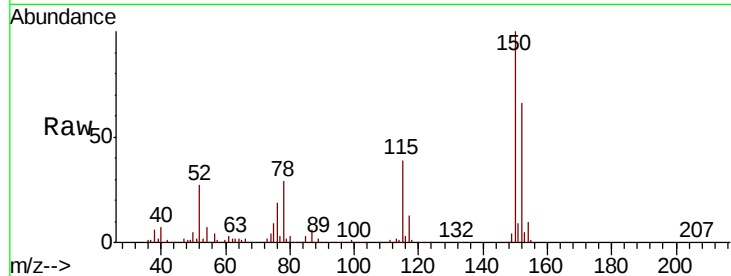
Tgt Ion: 152 Resp: 231295

Ion Ratio Lower Upper

152 100

115 60.4 30.3 91.0

150 154.4 0.0 352.4

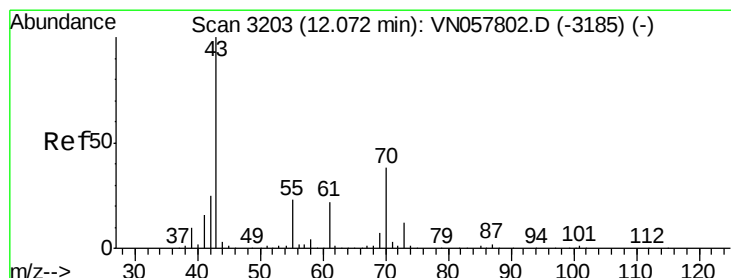
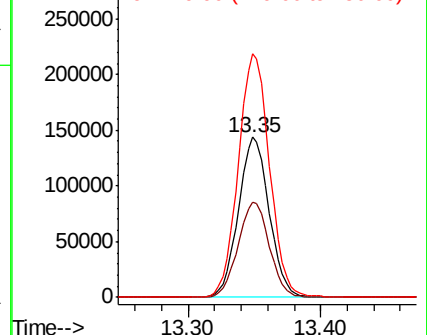
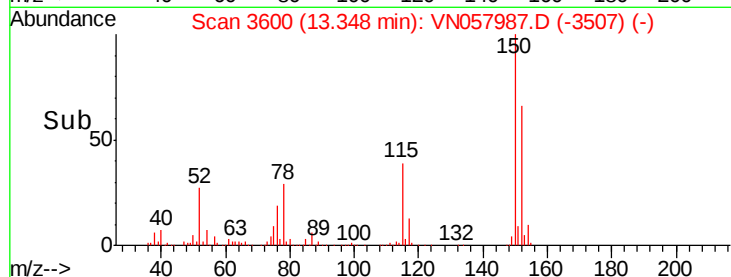


Abundance

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



#74

N-ethyl acetate

Concen: 0.388 ug/l

RT: 12.03 min Scan# 3191

Delta R.T. -0.04 min

Lab File: VN057987.D

Acq: 12 Sep 2019 22:18

Tgt Ion: 43 Resp: 3033

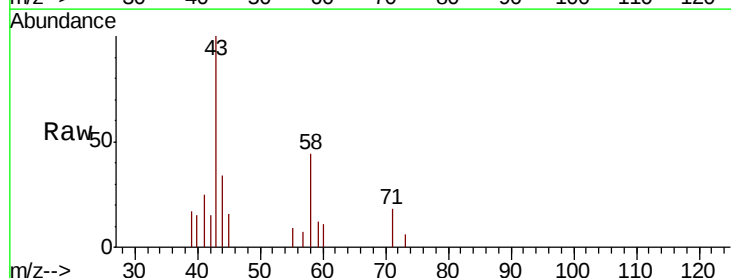
Ion Ratio Lower Upper

43 100

70 0.0 30.6 45.8#

55 7.6 18.6 27.8#

61 0.0 17.4 26.2#



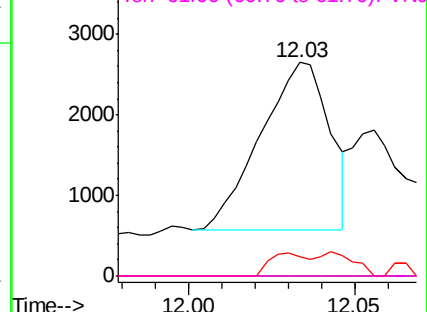
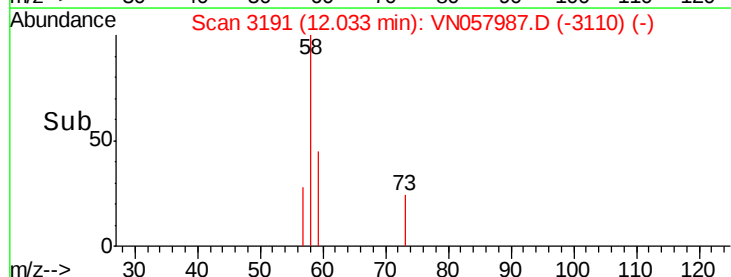
Abundance

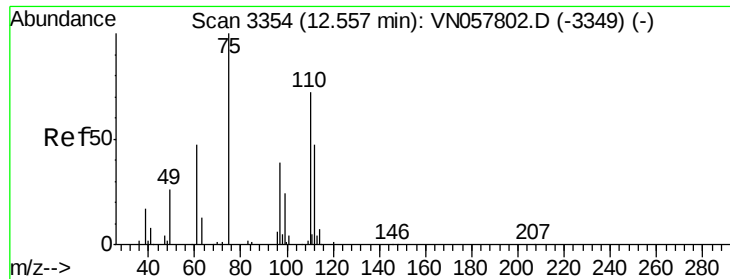
Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V

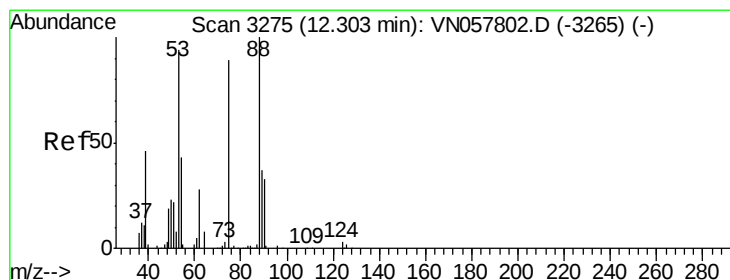
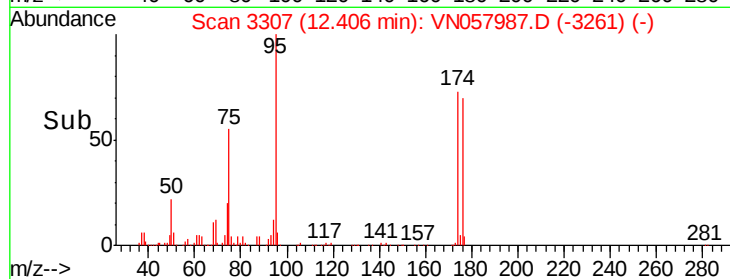
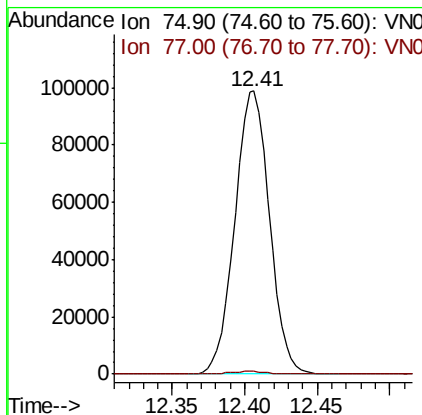
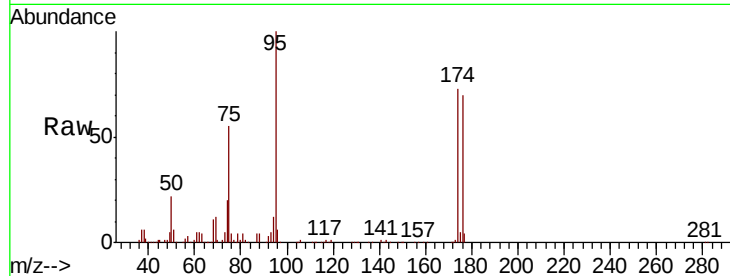




#76
 1,2,3-Trichloropropane
 Concen: 31.405 ug/l
 RT: 12.41 min Scan# 3307
 Delta R.T. -0.15 min
 Lab File: VN057987.D
 Acq: 12 Sep 2019 22:18

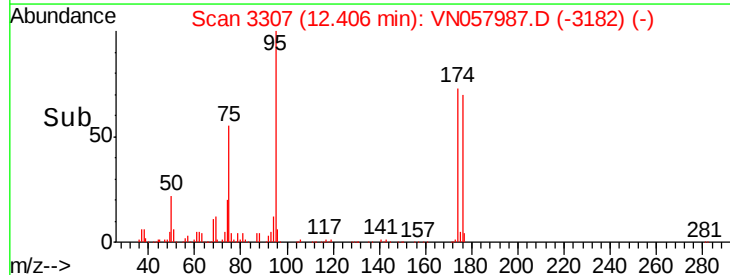
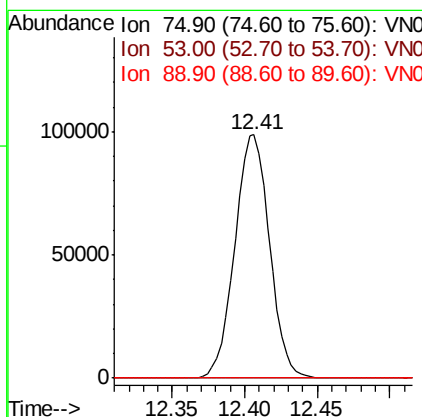
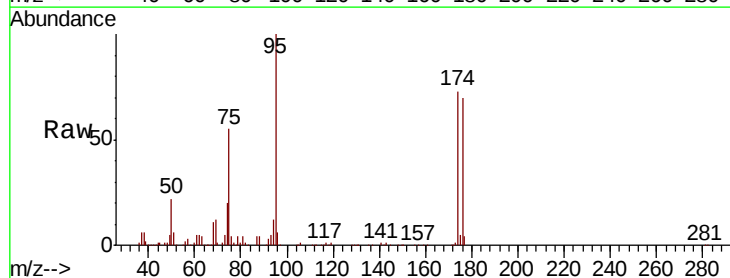
Instrument :
 MSVOA_N
 ClientSampled :
 T1-4-(0)

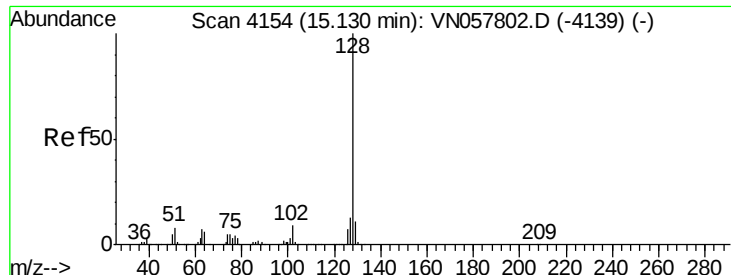
Tgt Ion: 75 Resp: 164322
 Ion Ratio Lower Upper
 75 100
 77 1.0 0.0 0.0#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 110.516 ug/l
 RT: 12.41 min Scan# 3307
 Delta R.T. 0.10 min
 Lab File: VN057987.D
 Acq: 12 Sep 2019 22:18

Tgt Ion: 75 Resp: 164322
 Ion Ratio Lower Upper
 75 100
 53 0.0 88.4 132.6#
 89 0.0 35.3 52.9#

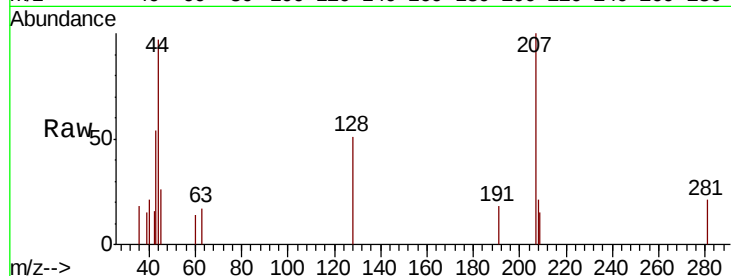




#95
Naphthalene
Concen: Below Cal
RT: 15.14 min Scan# 4156
Delta R.T. 0.01 min
Lab File: VN057987.D
Acq: 12 Sep 2019 22:18

Instrument :
MSVOA_N
ClientSampleId :
T1-4(0)

Tgt Ion:128 Resp: 904
Ion Ratio Lower Upper
128 100
127 3.5 10.3 15.5#
129 3.3 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

