

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN021120\
 Data File : VN060060.D
 Acq On : 11 Feb 2020 13:11
 Operator : JC/MD
 Sample : L1373-03
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Feb 12 04:22:53 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N011320W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jan 18 03:09:32 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	189388	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	297607	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	276213	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	124077	50.00	ug/l	0.00

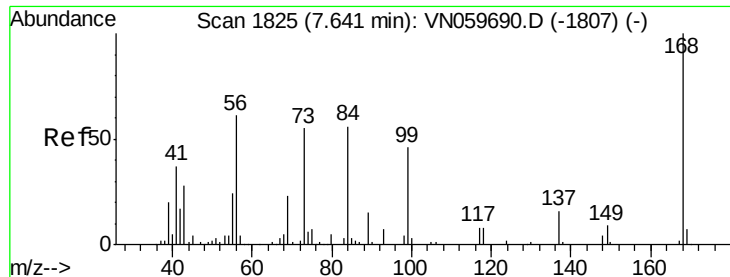
System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.00	65	110413	52.50	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.00%	
35) Dibromofluoromethane	7.57	113	90230	50.84	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.68%	
50) Toluene-d8	10.08	98	359725	52.31	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.62%	
62) 4-Bromofluorobenzene	12.40	95	127546	51.45	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.90%	

Target Compounds

					Qvalue	
11) Tert butyl alcohol	4.73	59	305	0.861	ug/l #	72
16) Acetone	3.79	43	6714	Below Cal		99
18) Methyl Acetate	4.30	43	1186	0.483	ug/l #	70
20) Methylene Chloride	4.53	84	7975	2.974	ug/l #	80
25) 2-Butanone	6.81	43	3261	2.738	ug/l	93
31) Cyclohexane	7.64	56	3764	1.210	ug/l #	1
36) 1,1-Dichloropropene	7.64	75	13514	5.214	ug/l #	50
38) Carbon Tetrachloride	7.64	117	17490	6.204	ug/l #	17
43) Isopropyl Acetate	8.14	43	44299	10.595	ug/l	92
45) 1,2-Dichloropropane	9.25	63	779	0.407	ug/l #	44
48) Methyl methacrylate	9.17	41	2622	1.402	ug/l #	13
51) 4-Methyl-2-Pentanone	9.97	43	2511	1.039	ug/l #	84
54) cis-1,3-Dichloropropene	9.89	75	19696	6.166	ug/l #	61
57) 1,3-Dichloropropane	10.75	76	2851	0.929	ug/l #	42
59) 2-Hexanone	10.75	43	42447	23.839	ug/l #	56
74) N-amyl acetate	12.03	43	2758	0.781	ug/l #	45
76) 1,2,3-Trichloropropane	12.40	75	65585	31.409	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	65585	67.451	ug/l #	11
92) 1,2-Dibromo-3-Chloropropan	14.26	75	94	Below Cal	#	6

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. 0.00 min

Lab File: VN060060.D

Acq: 11 Feb 2020 13:11

Instrument :

MSVOA_N

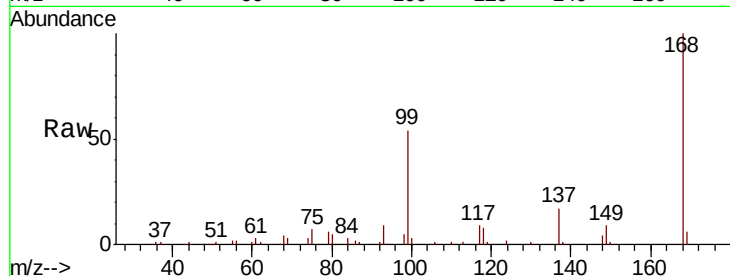
ClientSampled :

Tot Ion:168 Resp: 189388

Ion Ratio Lower Upper

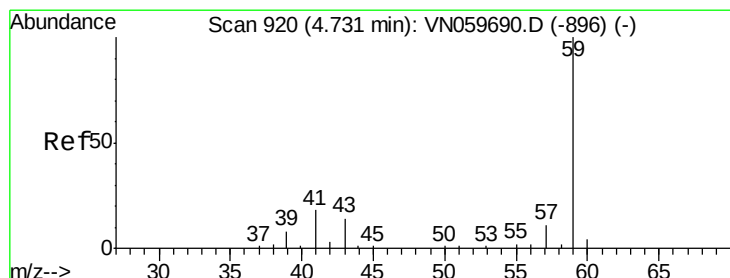
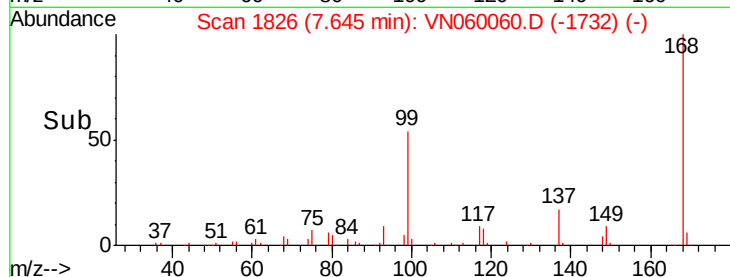
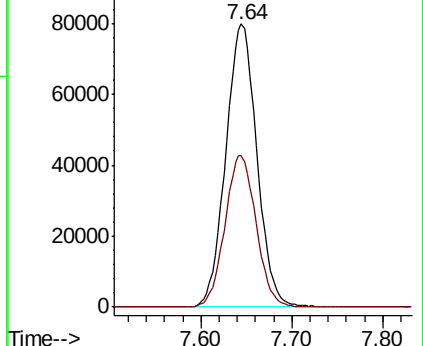
168 100

99 53.7 48.2 72.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0



#11

Tert butyl alcohol

Concen: 0.861 ug/l

RT: 4.73 min Scan# 921

Delta R.T. 0.00 min

Lab File: VN060060.D

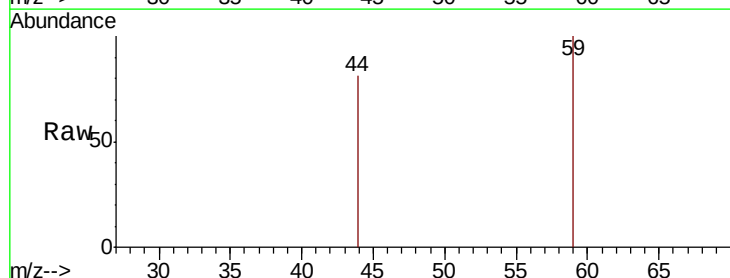
Acq: 11 Feb 2020 13:11

Tgt Ion: 59 Resp: 305

Ion Ratio Lower Upper

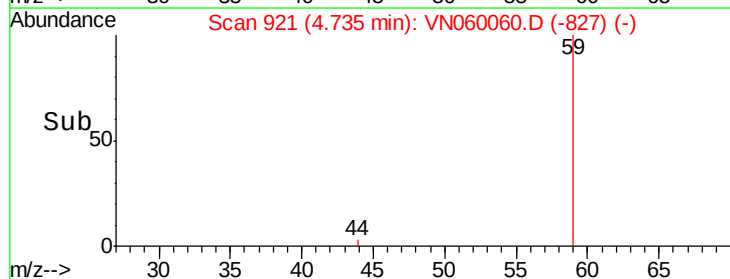
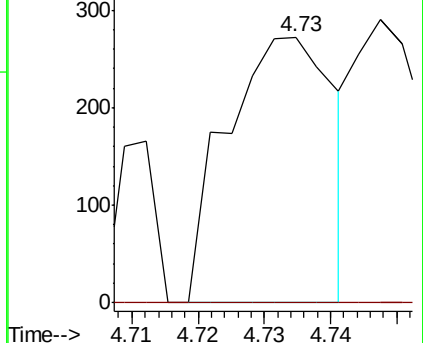
59 100

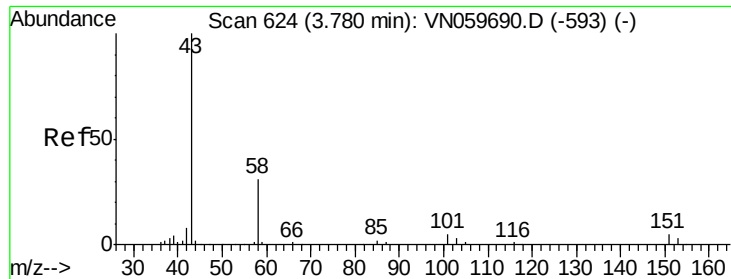
57 0.0 8.6 12.8#



Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 57.00 (56.70 to 57.70): VN0





#16

Acetone

Concen: Below Cal

RT: 3.79 min Scan# 627

Delta R.T. 0.01 min

Lab File: VN060060.D

Acq: 11 Feb 2020 13:11

Instrument :

MSVOA_N

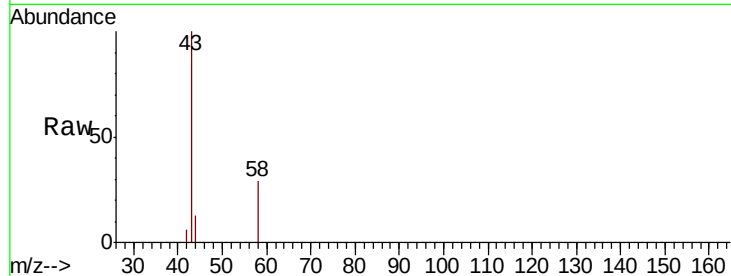
ClientSampled :

Tot Ion: 43 Resp: 6714

Ion Ratio Lower Upper

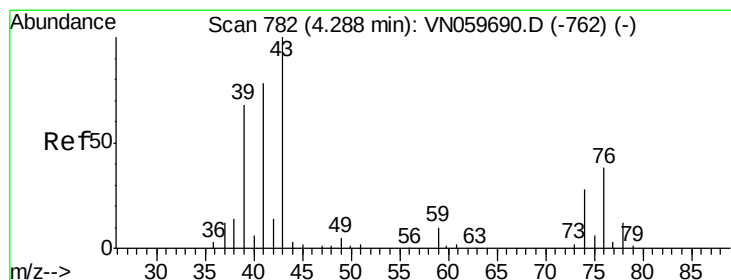
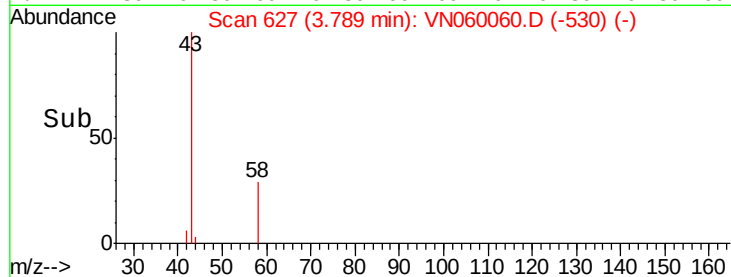
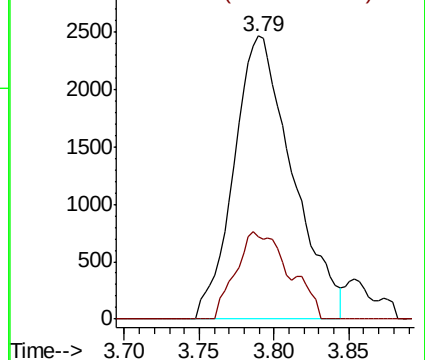
43 100

58 29.0 23.6 35.4



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#18

Methyl Acetate

Concen: 0.483 ug/l

RT: 4.30 min Scan# 787

Delta R.T. 0.02 min

Lab File: VN060060.D

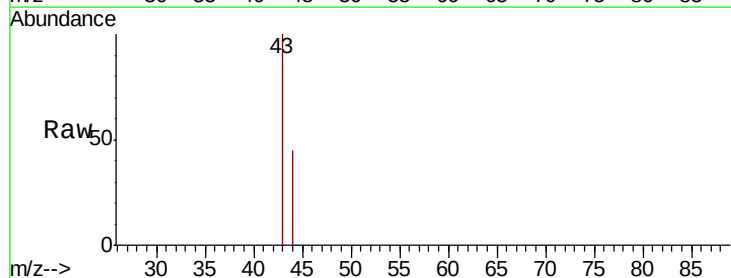
Acq: 11 Feb 2020 13:11

Tgt Ion: 43 Resp: 1186

Ion Ratio Lower Upper

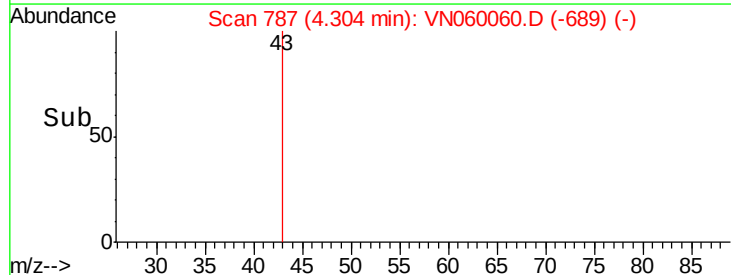
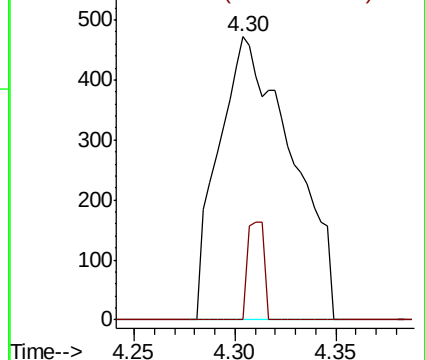
43 100

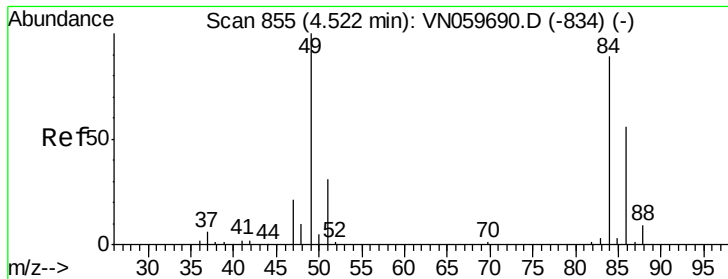
74 7.8 17.5 26.3#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

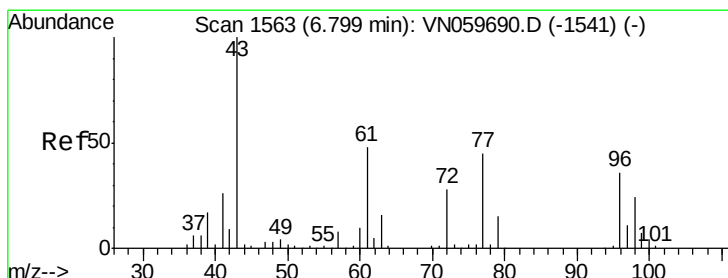
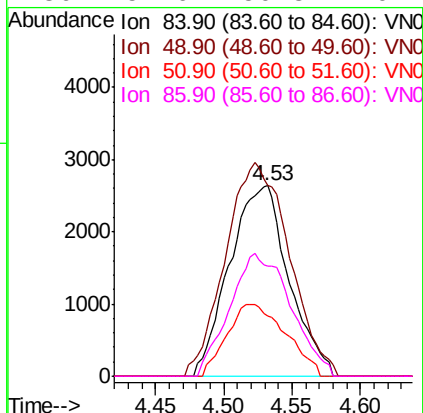
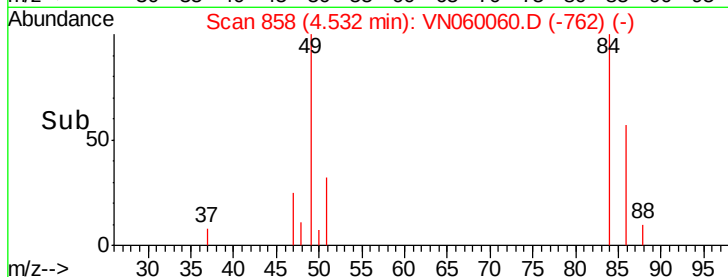
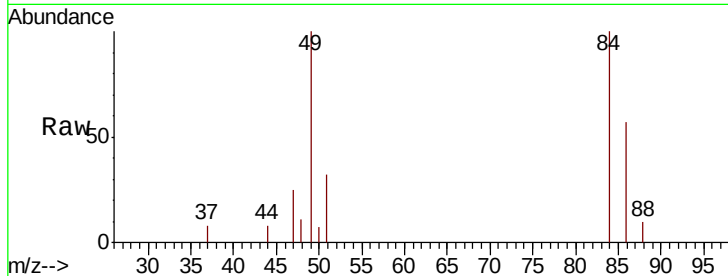




#20
Methvlene Chloride
Concen: 2.974 ug/l
RT: 4.53 min Scan# 858
Delta R.T. 0.01 min
Lab File: VN060060.D
Acq: 11 Feb 2020 13:11

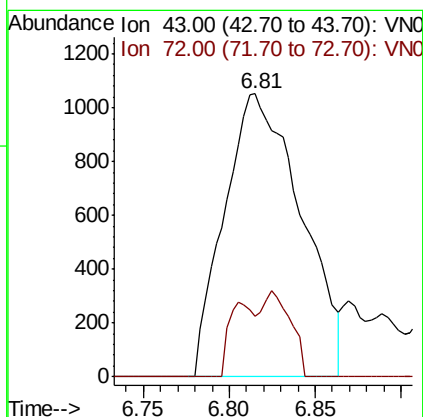
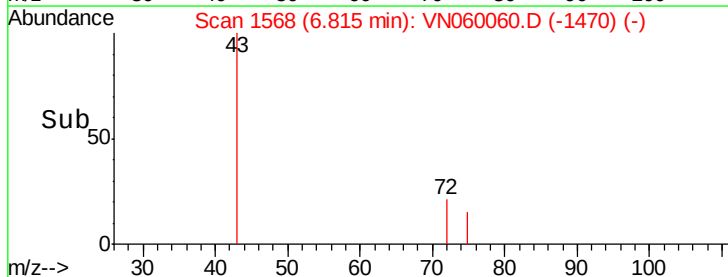
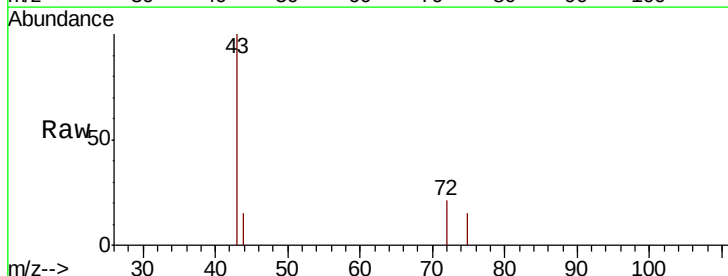
Instrument :
MSVOA_N
ClientSampled :

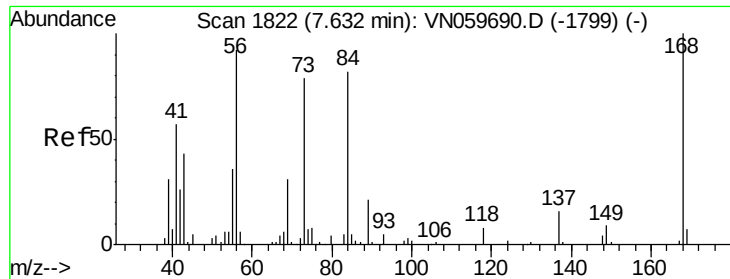
Tot Ion: 84 Resp: 7975
Ion Ratio Lower Upper
84 100
49 100.4 106.6 160.0#
51 31.8 31.9 47.9#
86 57.6 50.8 76.2



#25
2-Butanone
Concen: 2.738 ug/l
RT: 6.81 min Scan# 1568
Delta R.T. 0.02 min
Lab File: VN060060.D
Acq: 11 Feb 2020 13:11

Tgt Ion: 43 Resp: 3261
Ion Ratio Lower Upper
43 100
72 21.5 19.9 29.9

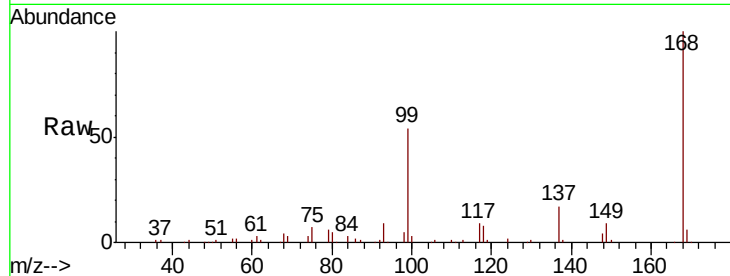




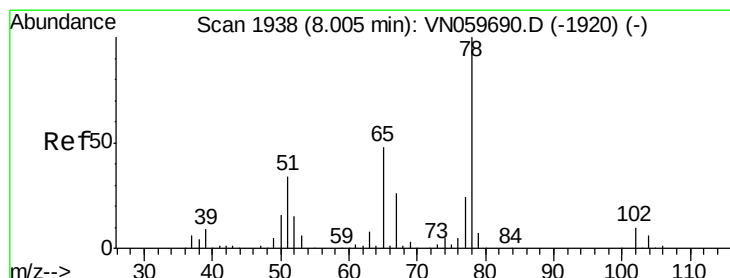
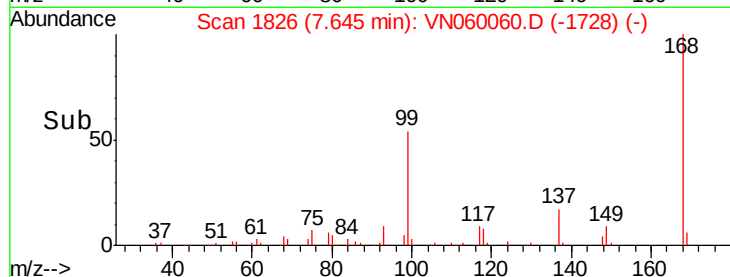
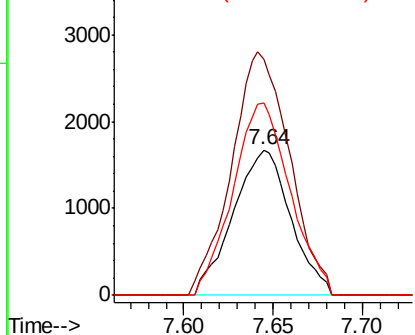
#31
Cyclohexane
Concen: 1.210 ug/l
RT: 7.64 min Scan# 1826
Delta R.T. 0.01 min
Lab File: VN060060.D
Acq: 11 Feb 2020 13:11

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 56 Resp: 3764
Ion Ratio Lower Upper
56 100
69 162.5 26.5 39.7#
84 132.8 65.3 97.9#

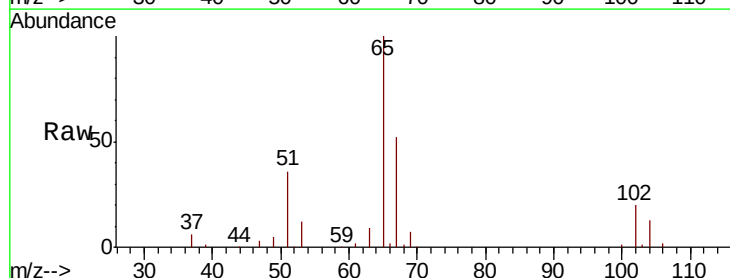


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

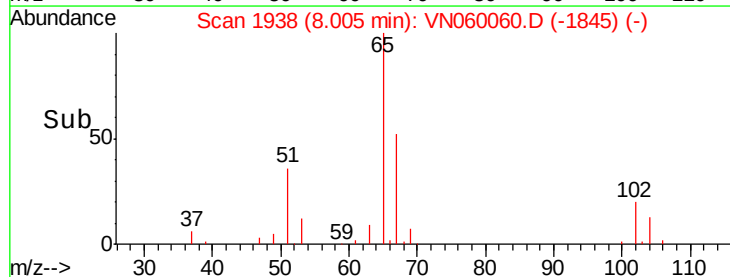
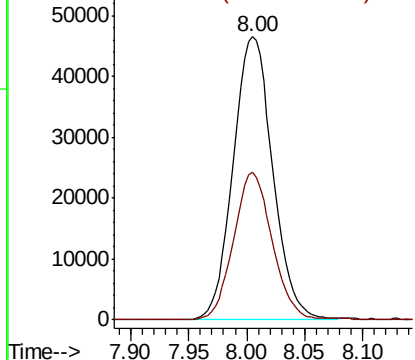


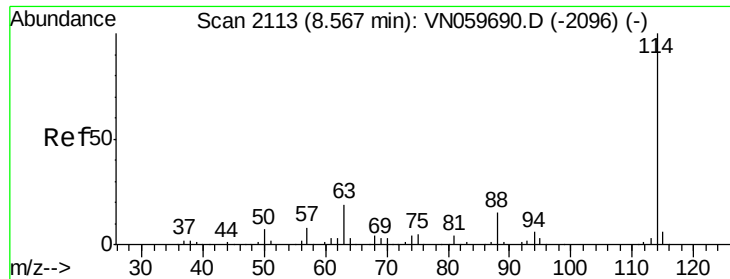
#33
1,2-Dichloroethane-d4
Concen: 52.498 ug/l
RT: 8.00 min Scan# 1938
Delta R.T. 0.00 min
Lab File: VN060060.D
Acq: 11 Feb 2020 13:11

Tgt Ion: 65 Resp: 110413
Ion Ratio Lower Upper
65 100
67 50.6 0.0 103.0



Abundance Ion 64.90 (64.60 to 65.60): VN0
Ion 66.90 (66.60 to 67.60): VN0

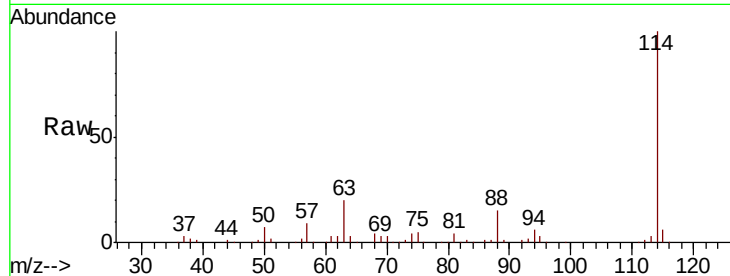




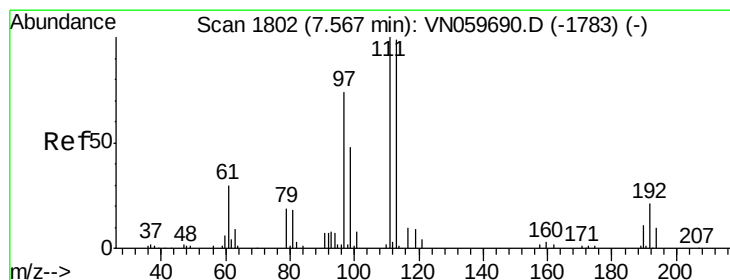
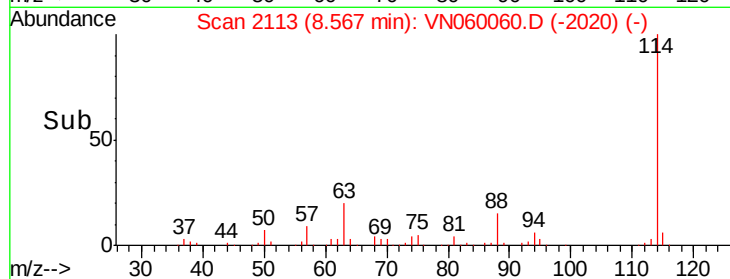
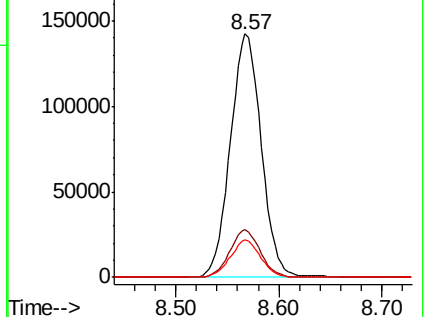
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.57 min Scan# 2113
Delta R.T. 0.00 min
Lab File: VN060060.D
Acq: 11 Feb 2020 13:11

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:114 Resp: 297607
Ion Ratio Lower Upper
114 100
63 19.7 0.0 43.6
88 15.3 0.0 31.4

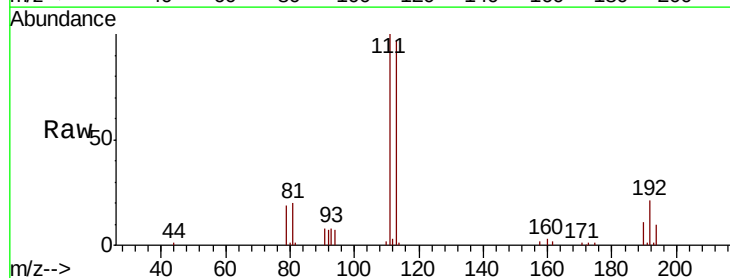


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VN
Ion 87.90 (87.60 to 88.60): VN

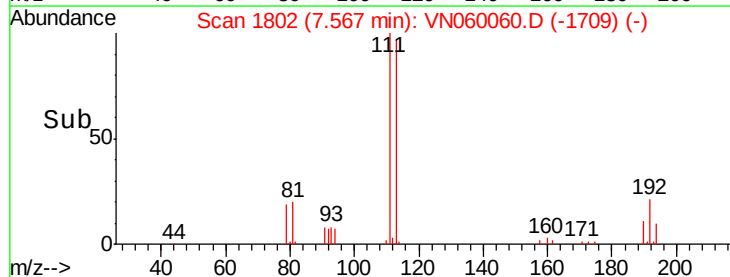
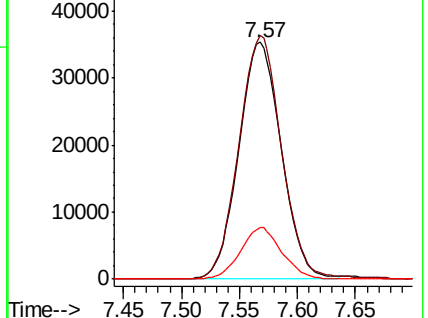


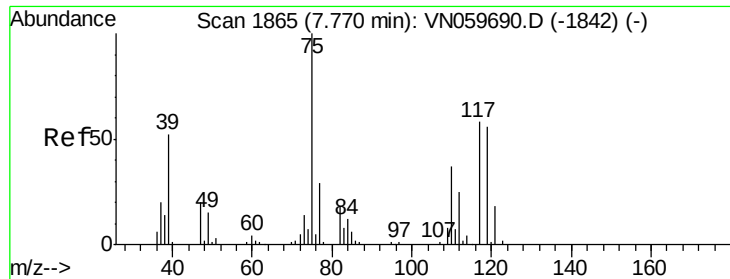
#35
Dibromofluoromethane
Concen: 50.841 ug/l
RT: 7.57 min Scan# 1802
Delta R.T. 0.00 min
Lab File: VN060060.D
Acq: 11 Feb 2020 13:11

Tgt Ion:113 Resp: 90230
Ion Ratio Lower Upper
113 100
111 103.6 83.5 125.3
192 21.0 15.4 23.2



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

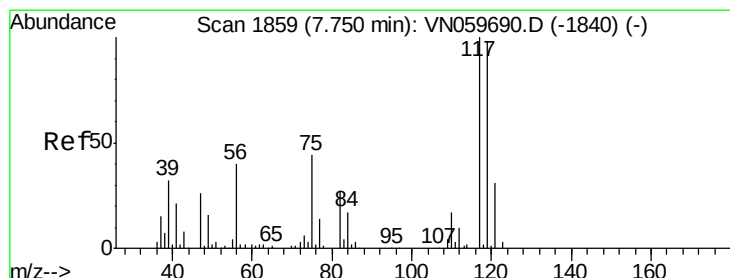
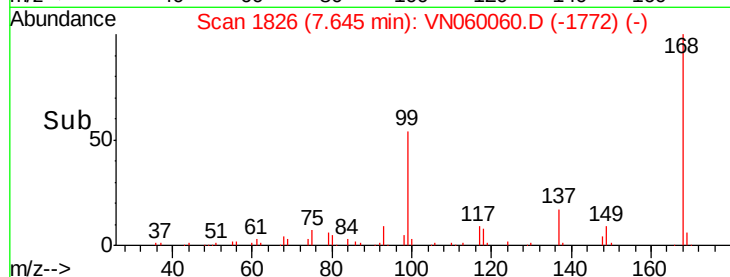
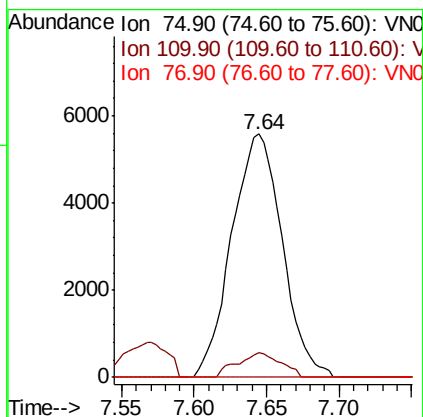
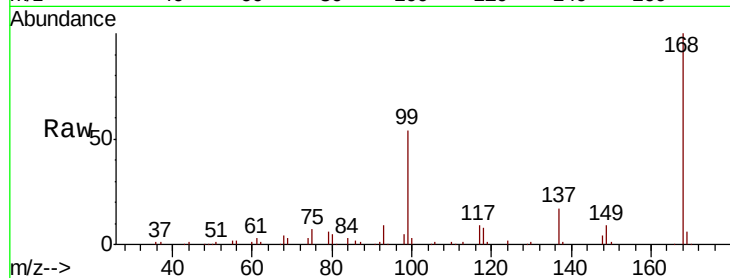




#36
 1,1-Dichloropropene
 Concen: 5.214 ug/l
 RT: 7.64 min Scan# 1826
 Delta R.T. -0.13 min
 Lab File: VN060060.D
 Acq: 11 Feb 2020 13:11

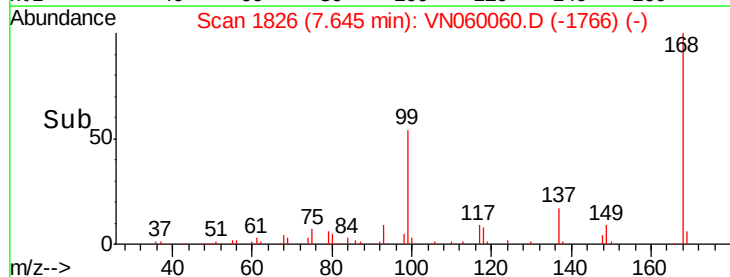
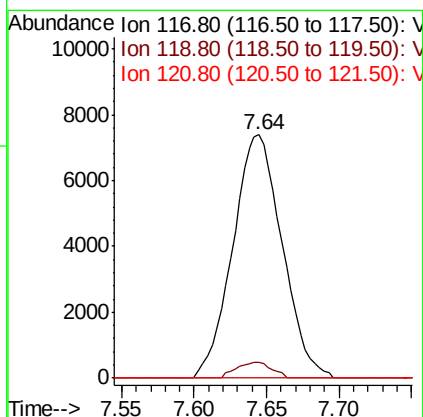
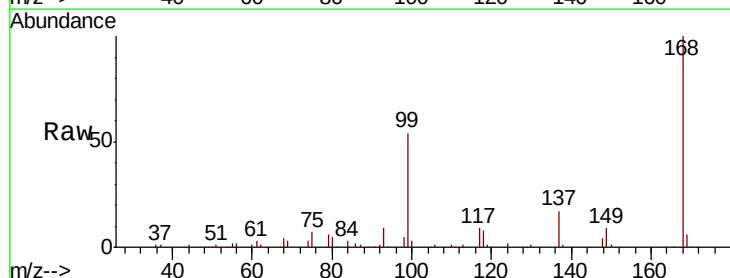
Instrument :
 MSVOA_N
 ClientSampleId :

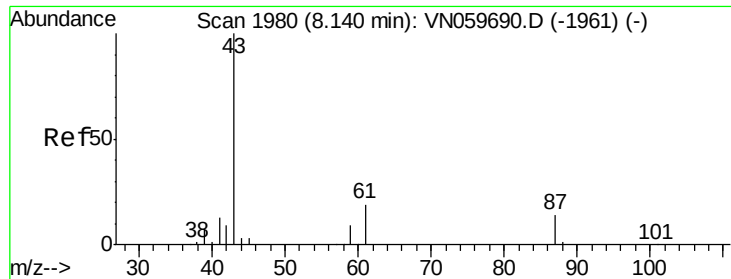
Tot Ion	Ratio	Lower	Upper
75	100		
110	8.7	16.6	49.7#
77	0.0	25.1	37.7#



#38
 Carbon Tetrachloride
 Concen: 6.204 ug/l
 RT: 7.64 min Scan# 1826
 Delta R.T. -0.11 min
 Lab File: VN060060.D
 Acq: 11 Feb 2020 13:11

Tgt Ion	Ratio	Lower	Upper
117	100		
119	6.5	76.5	114.7#
121	0.0	25.1	37.7#





#43

Isopropyl Acetate

Concen: 10.595 ug/l

RT: 8.14 min Scan# 1981

Delta R.T. 0.00 min

Lab File: VN060060.D

Acq: 11 Feb 2020 13:11

Instrument :

MSVOA_N

ClientSampled :

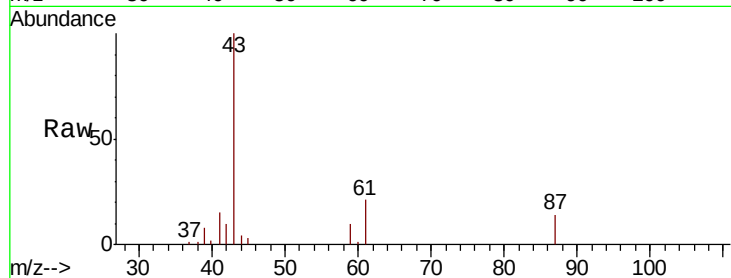
Tot Ion: 43 Resp: 44299

Ion Ratio Lower Upper

43 100

61 20.5 20.2 30.2

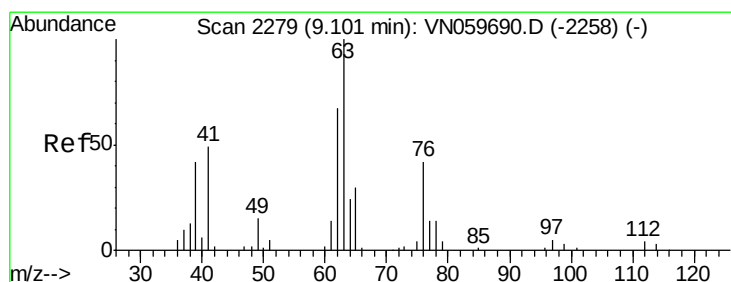
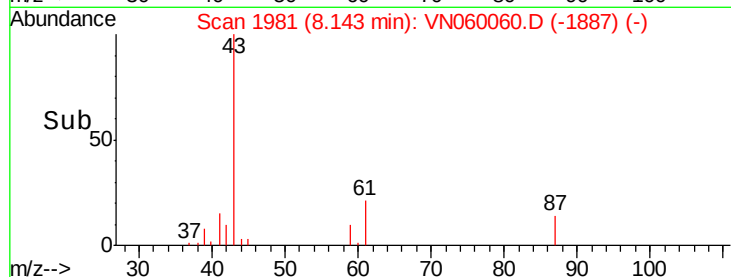
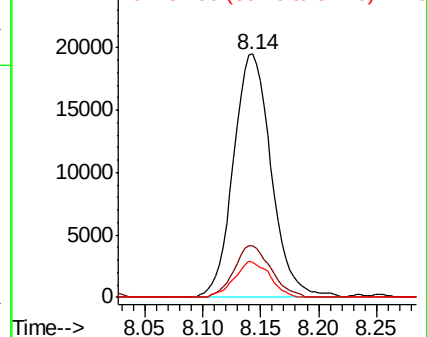
87 13.8 9.5 14.3



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0



#45

1,2-Dichloropropane

Concen: 0.407 ug/l

RT: 9.25 min Scan# 2325

Delta R.T. 0.15 min

Lab File: VN060060.D

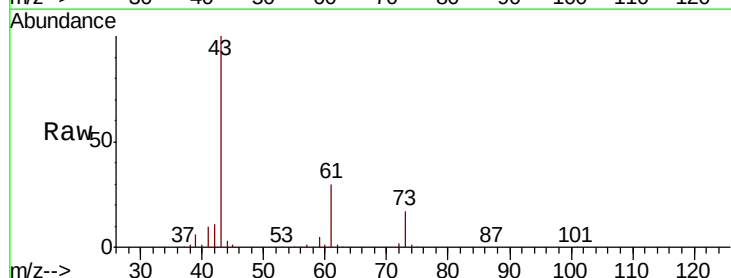
Acq: 11 Feb 2020 13:11

Tgt Ion: 63 Resp: 779

Ion Ratio Lower Upper

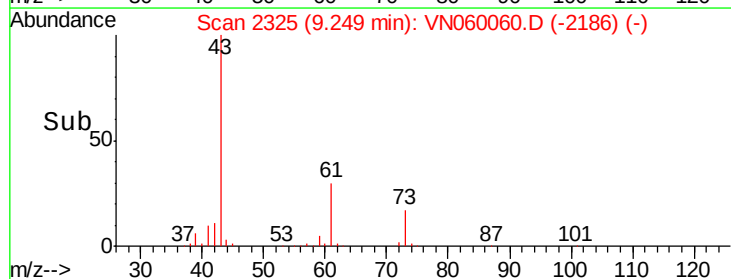
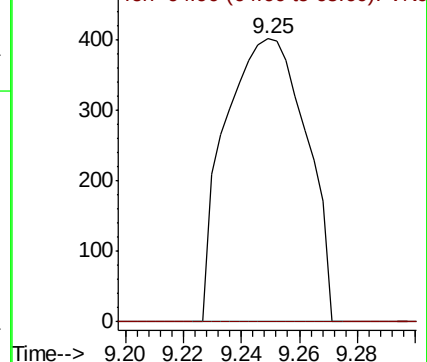
63 100

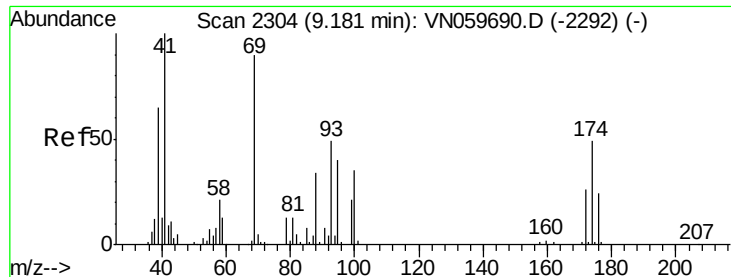
65 0.0 24.9 37.3#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0

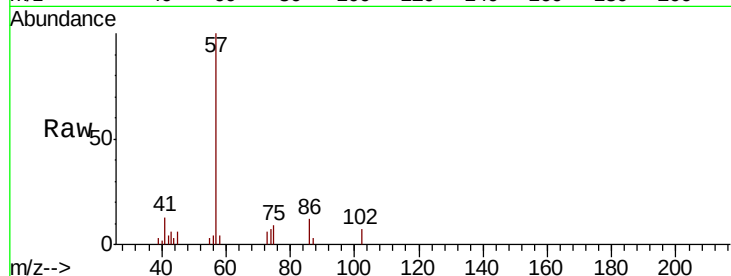




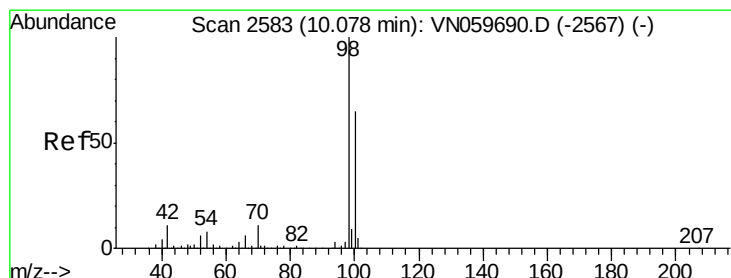
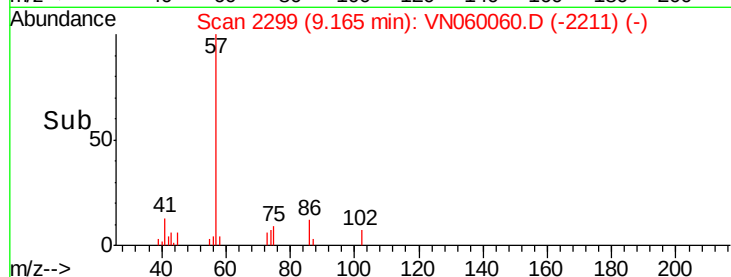
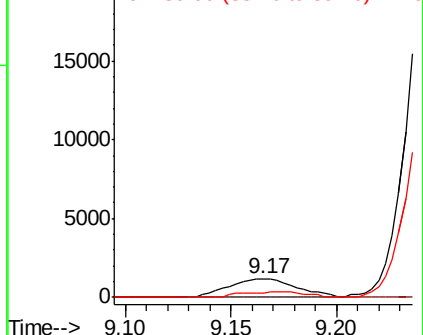
#48
Methvl methacrylate
Concen: 1.402 ug/l
RT: 9.17 min Scan# 2299
Delta R.T. -0.02 min
Lab File: VN060060.D
Acq: 11 Feb 2020 13:11

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 41 Resp: 2622
Ion Ratio Lower Upper
41 100
69 0.0 64.4 96.6#
39 0.0 51.3 76.9#

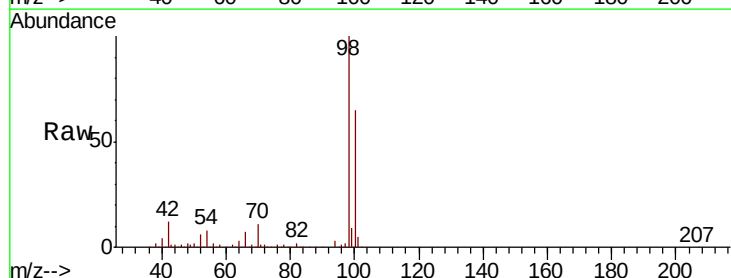


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

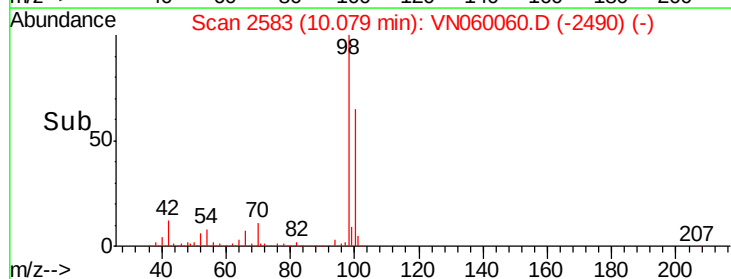
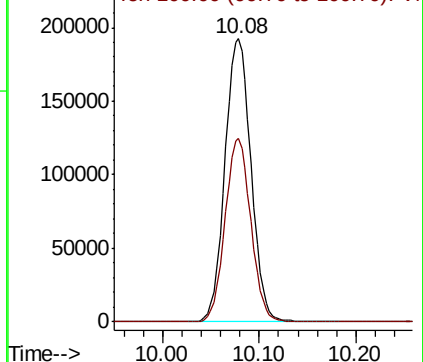


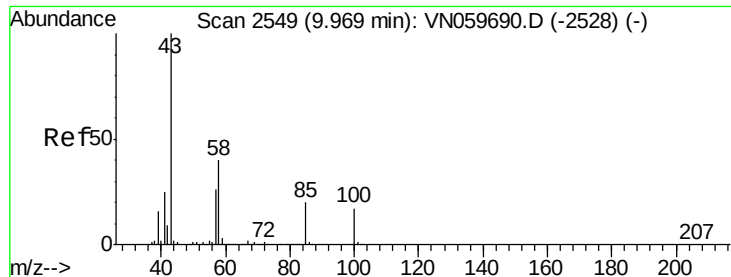
#50
Toluene-d8
Concen: 52.314 ug/l
RT: 10.08 min Scan# 2583
Delta R.T. 0.00 min
Lab File: VN060060.D
Acq: 11 Feb 2020 13:11

Tgt Ion: 98 Resp: 359725
Ion Ratio Lower Upper
98 100
100 64.0 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VN0
Ion 100.00 (99.70 to 100.70): VN0





#51

4-Methyl-2-Pentanone

Concen: 1.039 ug/l

RT: 9.97 min Scan# 2550

Delta R.T. 0.00 min

Lab File: VN060060.D

Acq: 11 Feb 2020 13:11

Instrument :

MSVOA_N

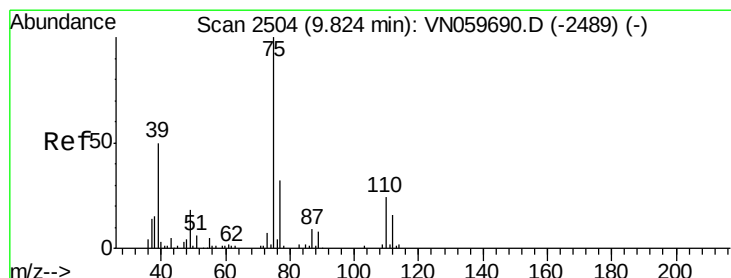
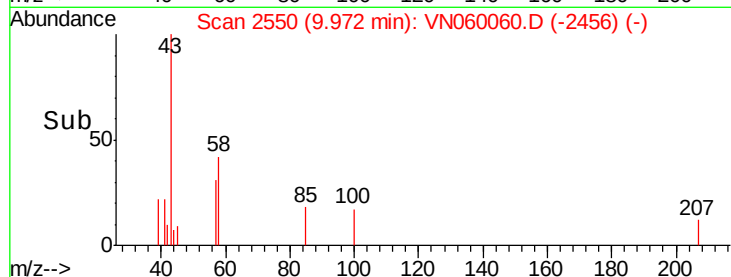
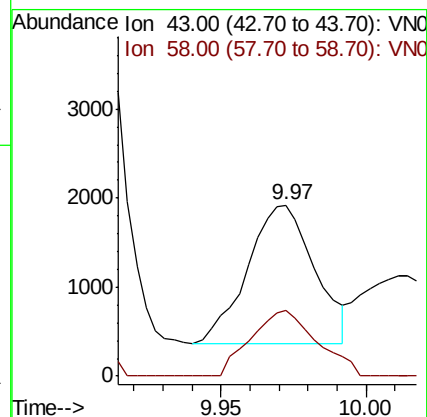
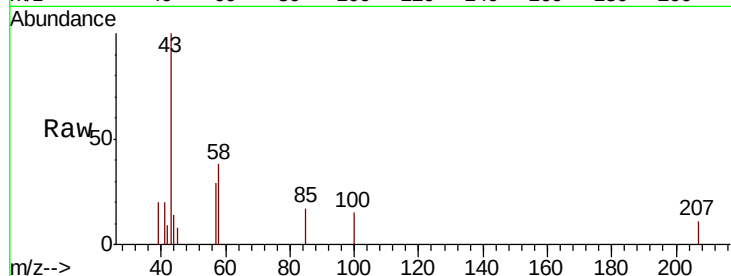
ClientSampled :

Tot Ion: 43 Resp: 2511

Ion Ratio Lower Upper

43 100

58 46.8 29.8 44.8#



#54

cis-1,3-Dichloropropene

Concen: 6.166 ug/l

RT: 9.89 min Scan# 2525

Delta R.T. 0.07 min

Lab File: VN060060.D

Acq: 11 Feb 2020 13:11

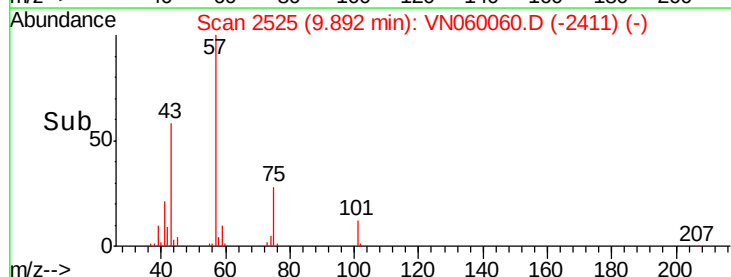
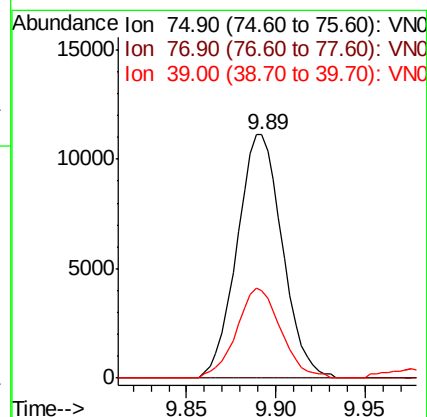
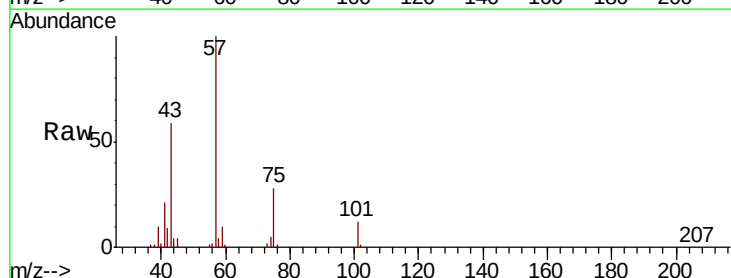
Tgt Ion: 75 Resp: 19696

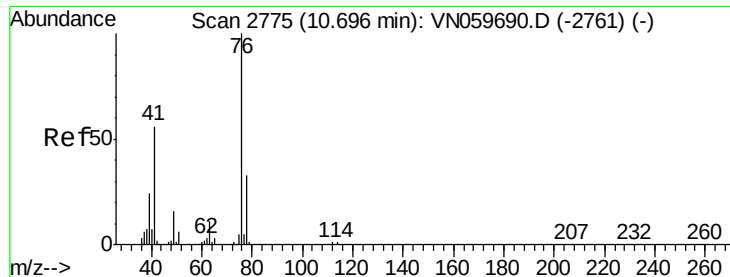
Ion Ratio Lower Upper

75 100

77 0.0 25.1 37.7#

39 36.1 46.1 69.1#

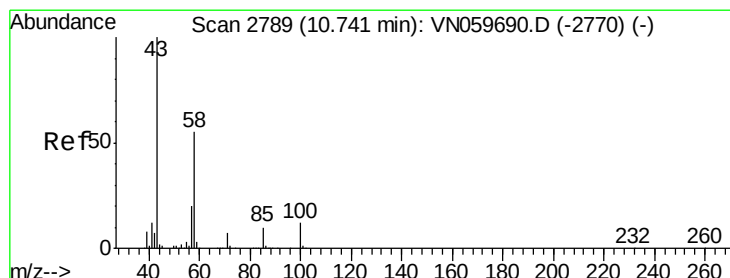
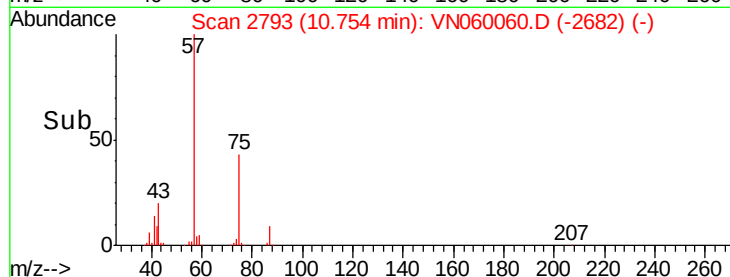
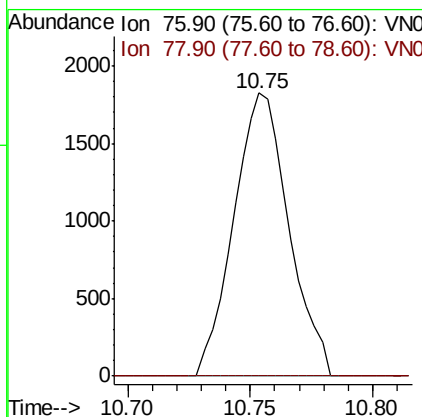
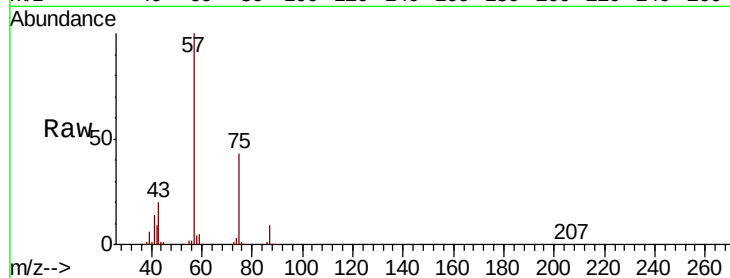




#57
 1,3-Dichloropropane
 Concen: 0.929 ug/l
 RT: 10.75 min Scan# 2793
 Delta R.T. 0.06 min
 Lab File: VN060060.D
 Acq: 11 Feb 2020 13:11

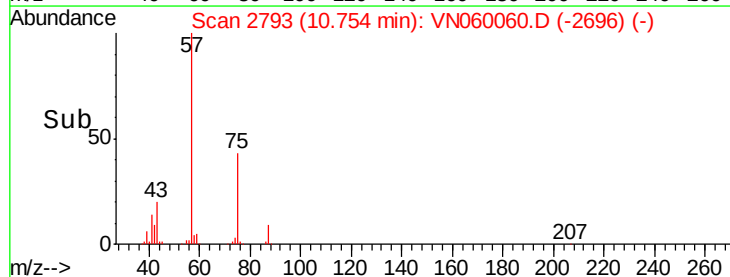
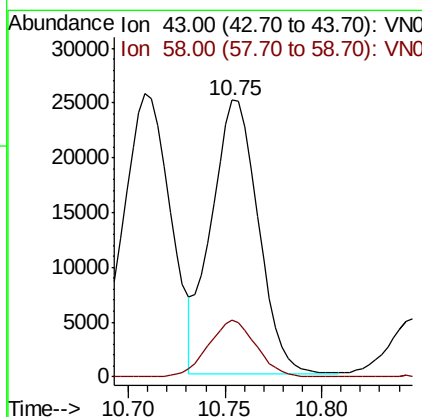
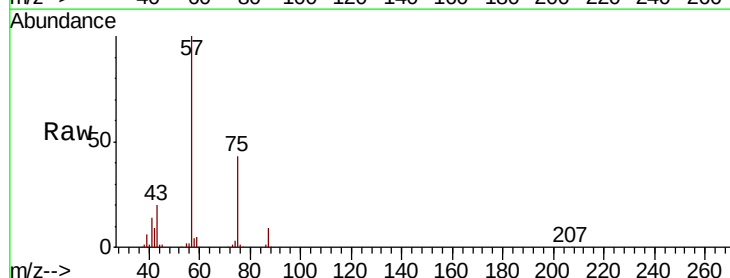
Instrument :
 MSVOA_N
 ClientSampled :

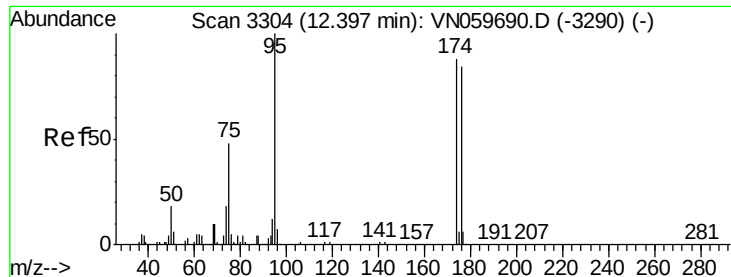
Tot Ion: 76 Resp: 2851
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.8 38.8#



#59
 2-Hexanone
 Concen: 23.839 ug/l
 RT: 10.75 min Scan# 2793
 Delta R.T. 0.01 min
 Lab File: VN060060.D
 Acq: 11 Feb 2020 13:11

Tgt Ion: 43 Resp: 42447
 Ion Ratio Lower Upper
 43 100
 58 20.8 25.8 77.3#

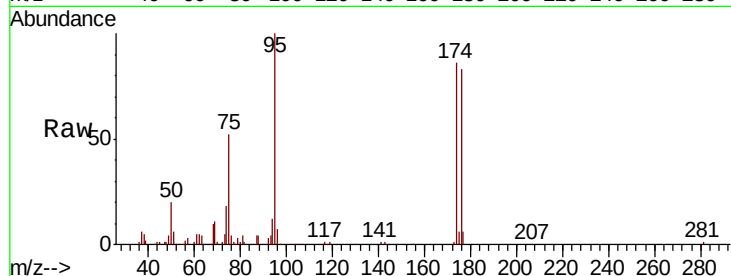




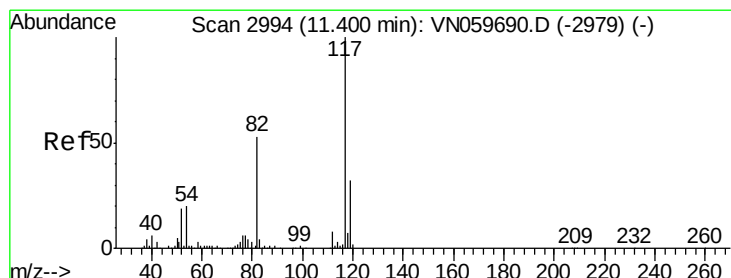
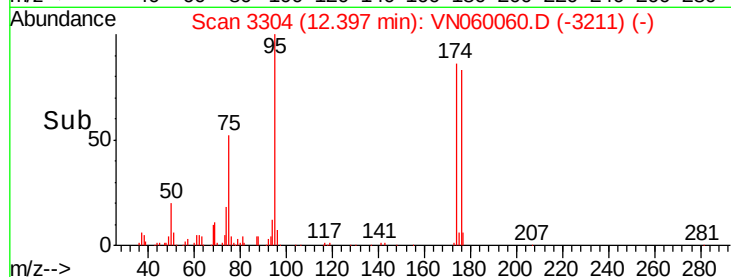
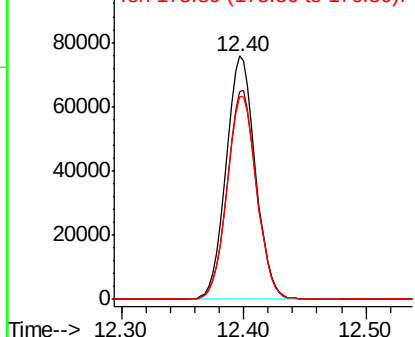
#62
4-Bromofluorobenzene
Concen: 51.453 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. 0.00 min
Lab File: VN060060.D
Acq: 11 Feb 2020 13:11

Instrument :
MSVOA_N
ClientSampled :

Tot Ion	Ratio	Lower	Upper
95	100		
174	85.6	0.0	151.4
176	84.1	0.0	146.0

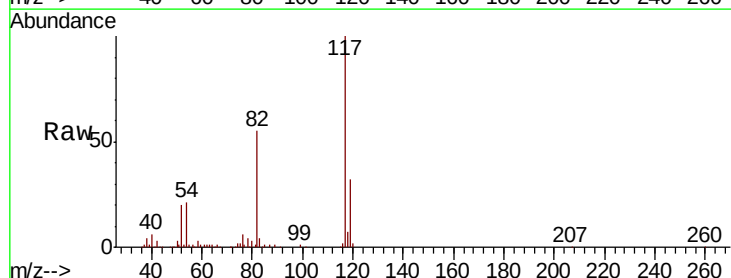


Abundance Ion 94.90 (94.60 to 95.60): VN0
Ion 173.80 (173.50 to 174.50): VN
Ion 175.80 (175.50 to 176.50): VN

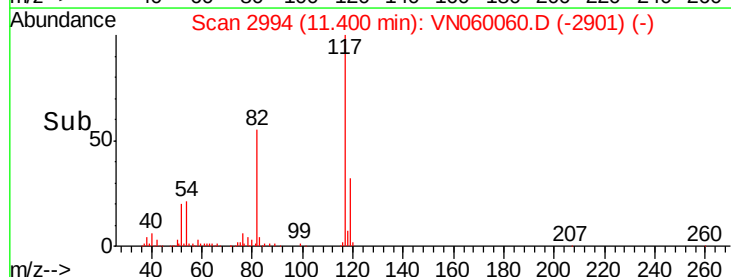
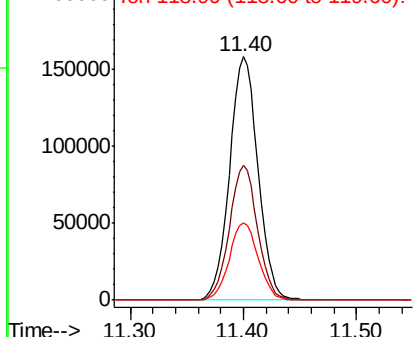


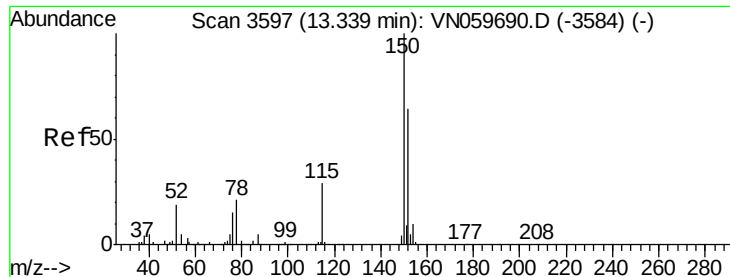
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2994
Delta R.T. 0.00 min
Lab File: VN060060.D
Acq: 11 Feb 2020 13:11

Tgt Ion	Ratio	Lower	Upper
117	100		
82	55.1	45.9	68.9
119	32.0	25.5	38.3



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

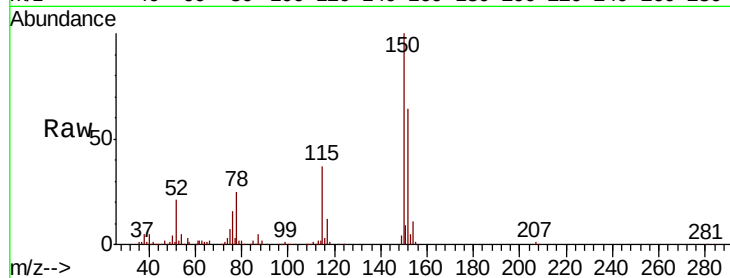




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.34 min Scan# 3597
 Delta R.T. 0.00 min
 Lab File: VN060060.D
 Acq: 11 Feb 2020 13:11

Instrument :
 MSVOA_N
 ClientSampled :

Tot Ion	Ratio	Lower	Upper
152	100		
115	57.3	30.3	90.9
150	156.6	0.0	345.2

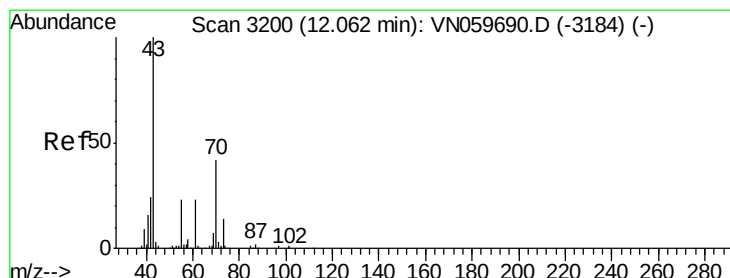
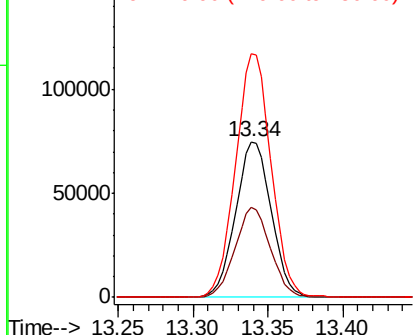
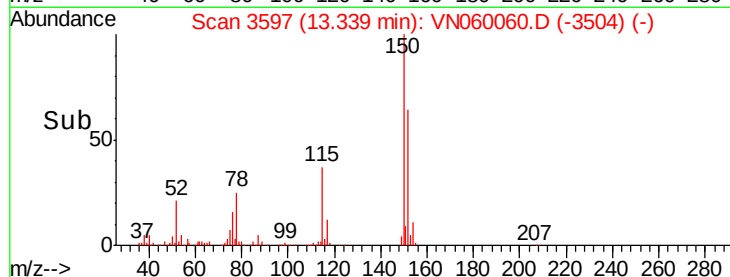


Abundance

Ion 151.90 (151.60 to 152.60): V

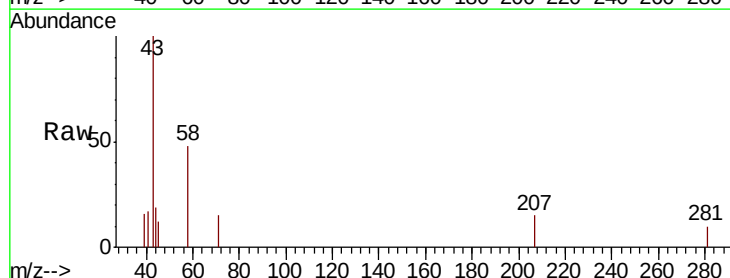
Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#74
 N-ethyl acetate
 Concen: 0.781 ug/l
 RT: 12.03 min Scan# 3189
 Delta R.T. -0.04 min
 Lab File: VN060060.D
 Acq: 11 Feb 2020 13:11

Tgt 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#



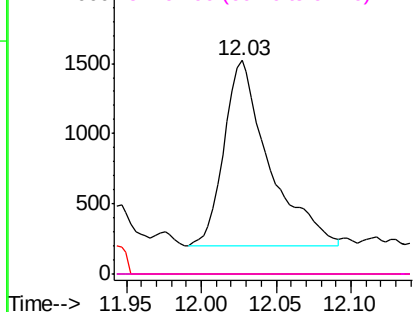
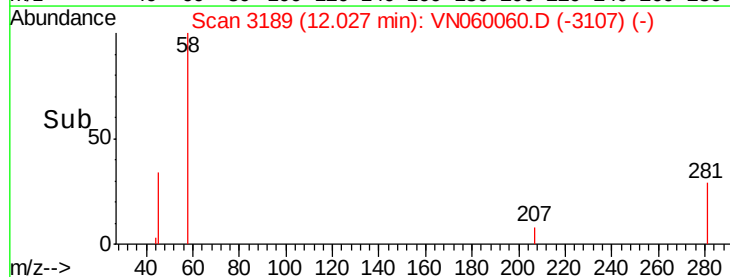
Abundance

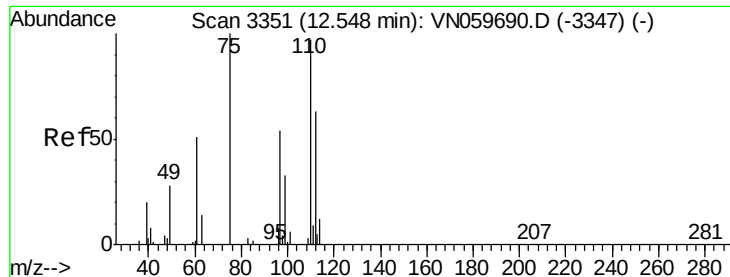
Ion 43.00 (42.70 to 43.70): VN0

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: 31.409 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN060060.D

Acq: 11 Feb 2020 13:11

Instrument :

MSVOA_N

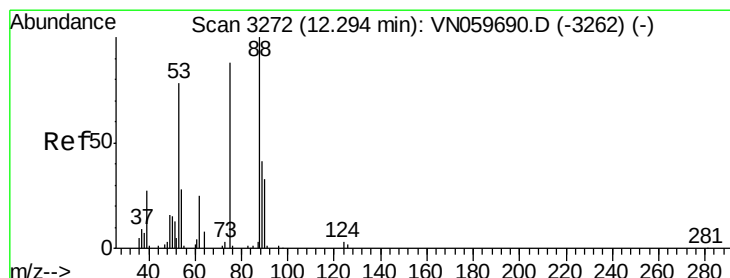
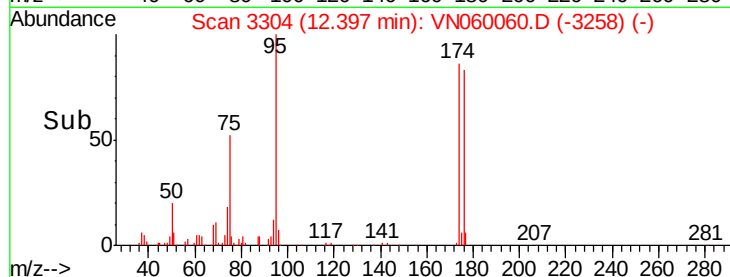
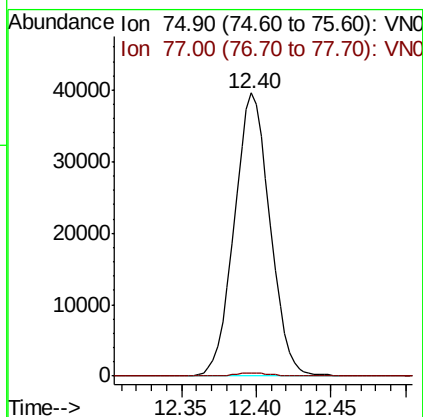
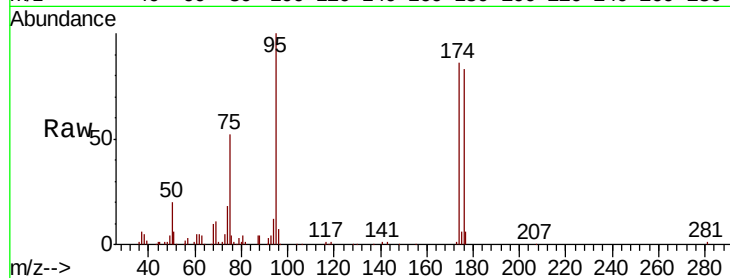
ClientSampled :

Tot Ion: 75 Resp: 65585

Ion Ratio Lower Upper

75 100

77 1.0 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 67.451 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.10 min

Lab File: VN060060.D

Acq: 11 Feb 2020 13:11

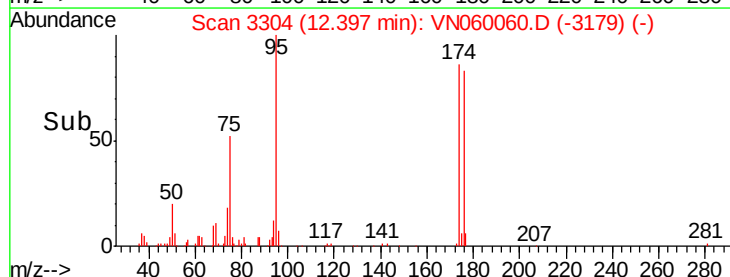
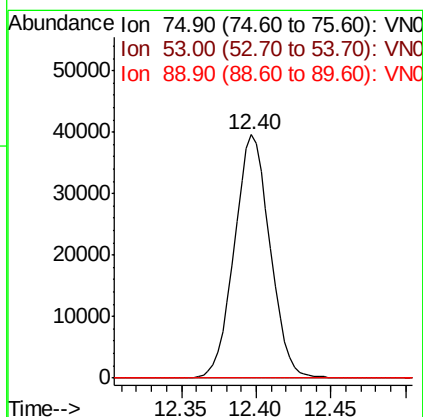
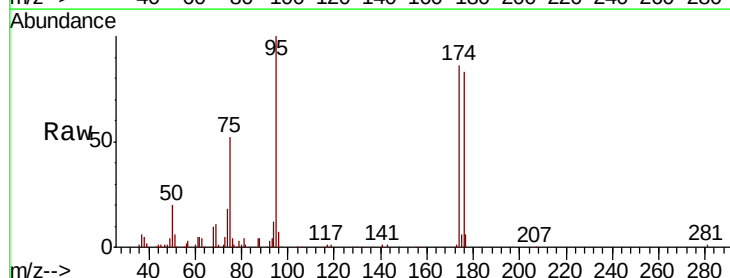
Tgt Ion: 75 Resp: 65585

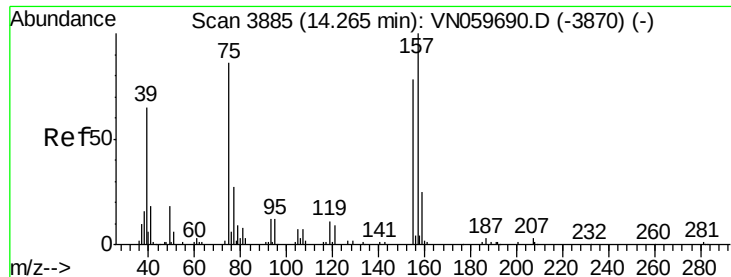
Ion Ratio Lower Upper

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# 3882

Delta R.T. -0.01 min

Lab File: VN060060.D

Acq: 11 Feb 2020 13:11

Instrument :

MSVOA_N

ClientSampleId :

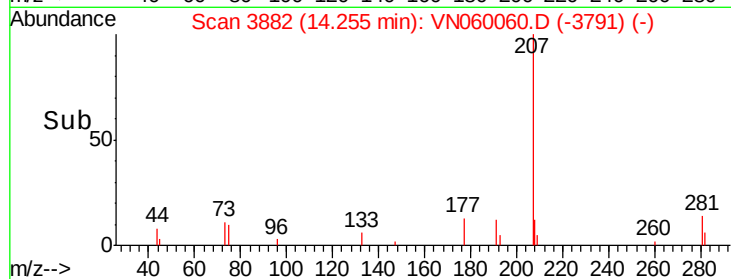
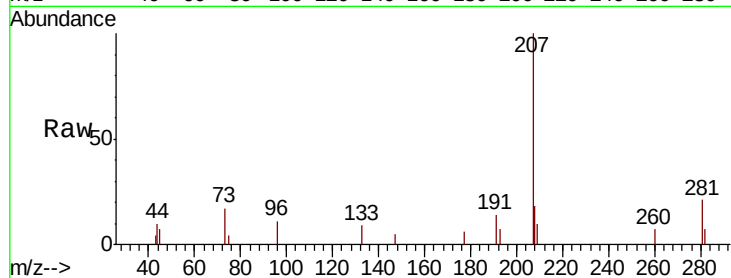
Tot Ion: 75 Resp: 94

Ion Ratio Lower Upper

75 100

155 0.0 37.0 110.9#

157 0.0 48.4 145.2#



Abundance Ion 74.90 (74.60 to 75.60): VN060060.D (-3791) (-)

Ion 154.80 (154.50 to 155.50): VN060060.D (-3791) (-)

Ion 156.80 (156.50 to 157.50): VN060060.D (-3791) (-)

