

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN111020\
 Data File : VN064522.D
 Acq On : 10 Nov 2020 13:47
 Operator : JC/MD
 Sample : L4628-02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 002-35TH-AVE(NOV)

Quant Time: Nov 11 01:43:21 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N110920W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Mon Nov 09 13:16:36 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.15	128	27511	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.55	114	292376	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.38	117	270656	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	7.99	65	161343	66.25	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	220.83%#
60) 4-Bromofluorobenzene	12.38	95	108330	23.37	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	77.90%
63) Toluene-d8	10.06	98	366302	29.02	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	96.73%

Target Compounds

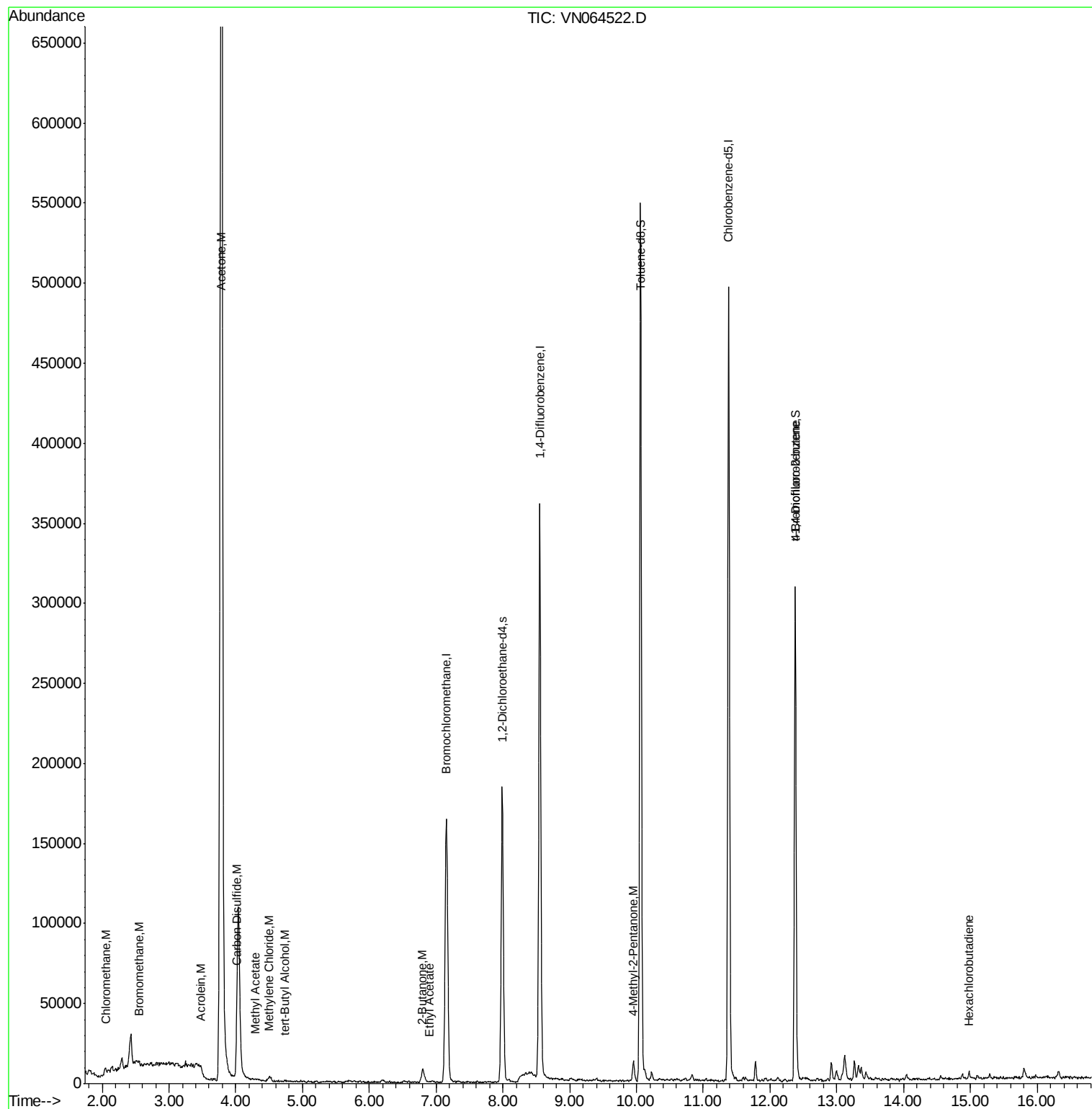
					Ovalue
3) Chloromethane	2.04	50	3527	1.678	ug/l 99
5) Bromomethane	2.55	94	550	0.369	ug/l 83
12) Methyl Acetate	4.29	43	926	0.511	ug/l # 79
13) Acrolein	3.47	56	122	0.666	ug/l 83
15) Acetone	3.78	58	428744	1613.181	ug/l 100
16) Carbon Disulfide	4.00	76	1270	0.282	ug/l # 74
18) Methylene Chloride	4.50	84	933	0.529	ug/l # 62
23) tert-Butyl Alcohol	4.73	59	63	0.228	ug/l # 100
30) 2-Butanone	6.80	43	11042	4.396	ug/l # 94
43) Ethyl Acetate	6.89	43	1240	0.254	ug/l # 79
58) 4-Methyl-2-Pentanone	9.96	43	9224	1.856	ug/l # 79
77) t-1,4-Dichloro-2-butene	12.38	75	61505	33.679	ug/l # 10
90) Hexachlorobutadiene	14.98	225	798	0.531	ug/l 63

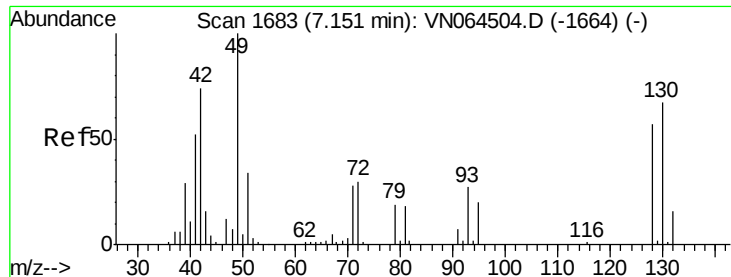
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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MSVOA_N
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002-35TH-AVE(NOV)

Quant Time: Nov 11 01:43:21 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N110920W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Mon Nov 09 13:16:36 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 7.15 min Scan# 1682

Delta R.T. -0.00 min

Lab File: VN064522.D

Acq: 10 Nov 2020 13:47

Instrument :

MSVOA_N

ClientSampleId :

002-35TH-AVE(NOV)

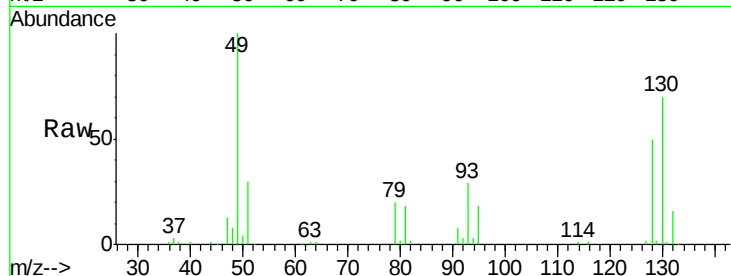
Tot Ion:128 Resp: 27511

Ion Ratio Lower Upper

128 100

49 406.9 0.0 475.5

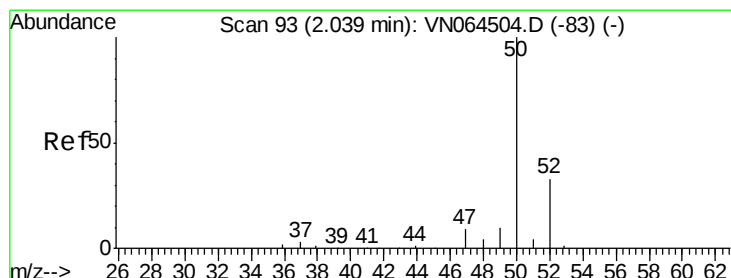
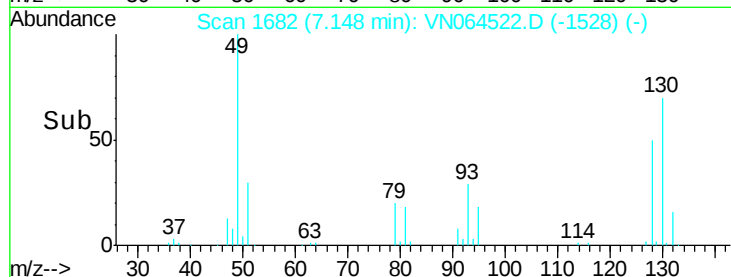
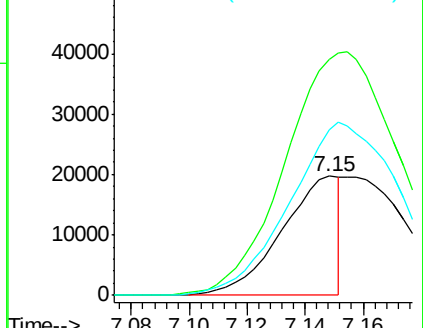
130 278.9 0.0 315.3



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 49.00 (48.70 to 49.70): VN0

Ion 130.00 (129.70 to 130.70): V



#3

Chloromethane

Concen: 1.678 ug/l

RT: 2.04 min Scan# 94

Delta R.T. 0.00 min

Lab File: VN064522.D

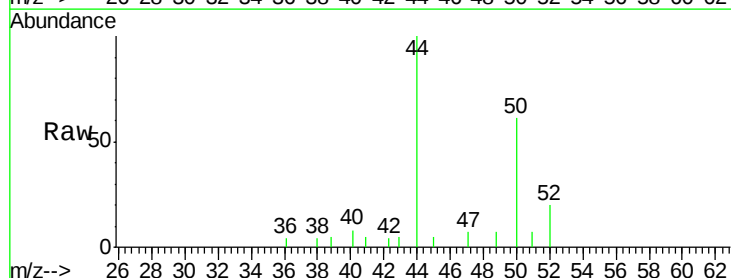
Acq: 10 Nov 2020 13:47

Tgt Ion: 50 Resp: 3527

Ion Ratio Lower Upper

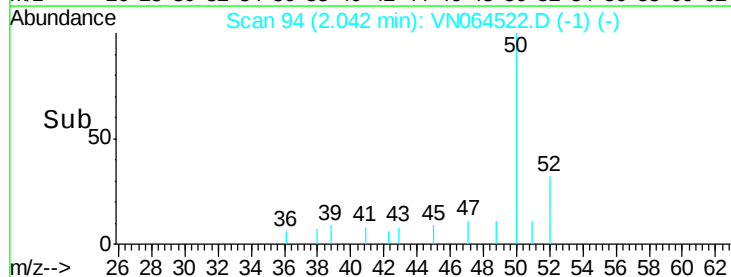
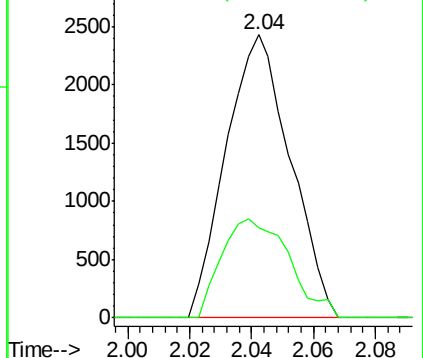
50 100

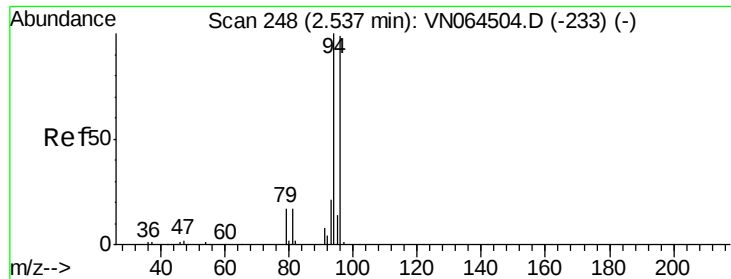
52 31.9 26.0 39.0



Abundance Ion 50.00 (49.70 to 50.70): VN0

Ion 52.00 (51.70 to 52.70): VN0





#5

Bromomethane

Concen: 0.369 ug/l

RT: 2.55 min Scan# 252

Delta R.T. 0.01 min

Lab File: VN064522.D

Acq: 10 Nov 2020 13:47

Instrument :

MSVOA_N

ClientSampleId :

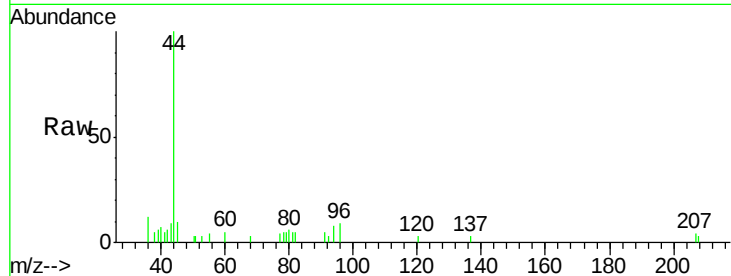
002-35TH-AVE(NOV)

Tot Ion: 94 Resp: 550

Ion Ratio Lower Upper

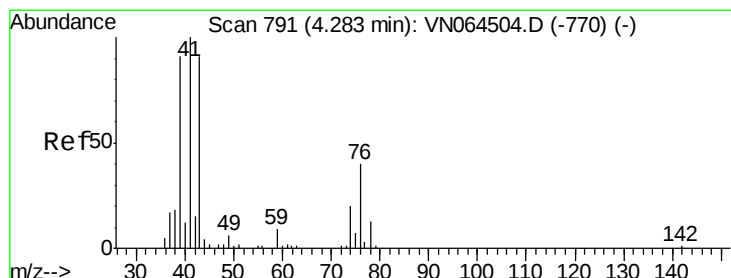
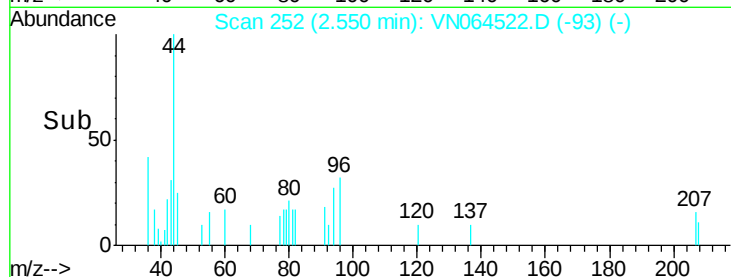
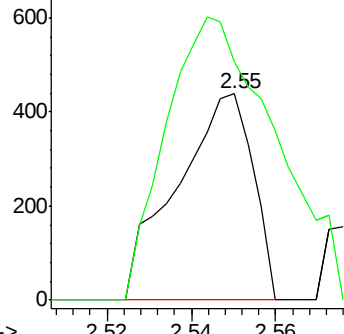
94 100

96 115.5 79.3 118.9



Abundance Ion 94.00 (93.70 to 94.70): VN0

Ion 96.00 (95.70 to 96.70): VN0



#12

Methyl Acetate

Concen: 0.511 ug/l

RT: 4.29 min Scan# 794

Delta R.T. 0.01 min

Lab File: VN064522.D

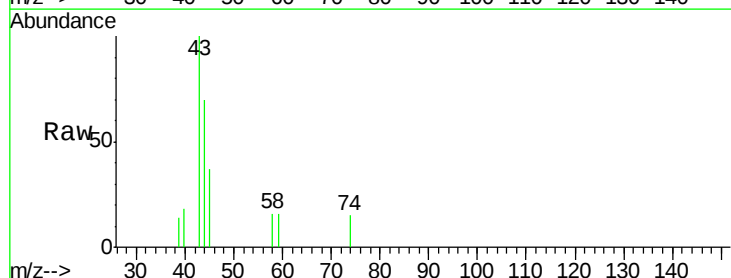
Acq: 10 Nov 2020 13:47

Tgt Ion: 43 Resp: 926

Ion Ratio Lower Upper

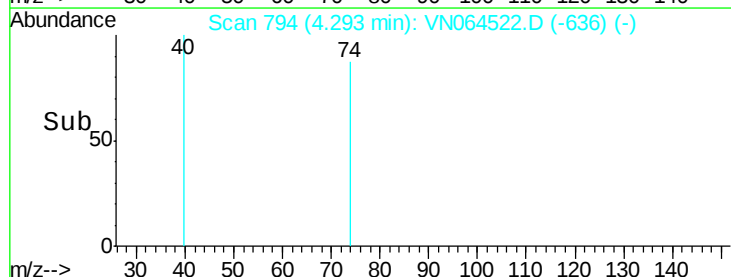
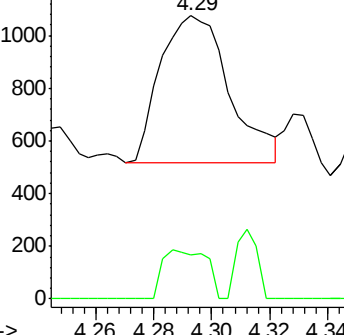
43 100

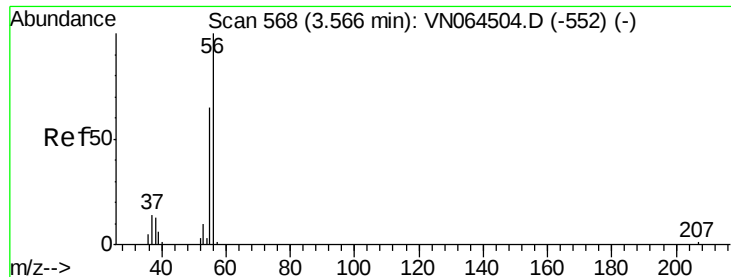
74 32.4 17.7 26.5#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0





#13

Acrolein

Concen: 0.666 ug/l

RT: 3.47 min Scan# 539

Delta R.T. -0.09 min

Lab File: VN064522.D

Acq: 10 Nov 2020 13:47

Instrument :

MSVOA_N

ClientSampleId :

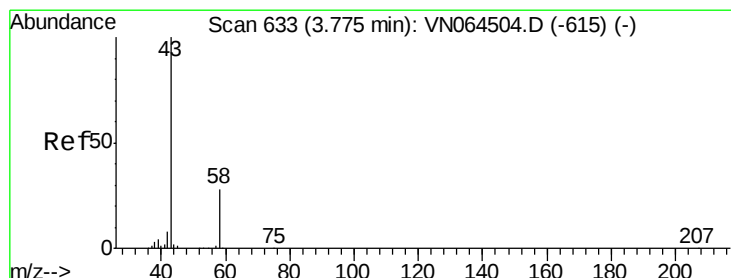
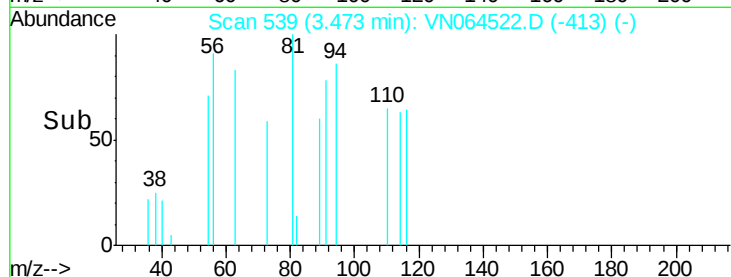
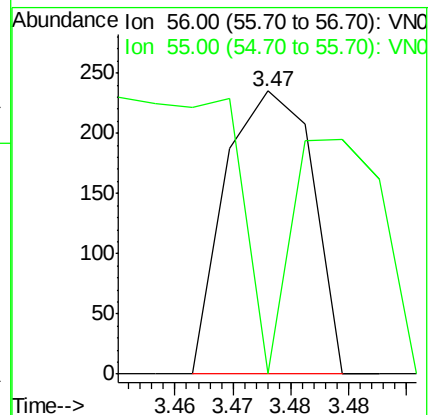
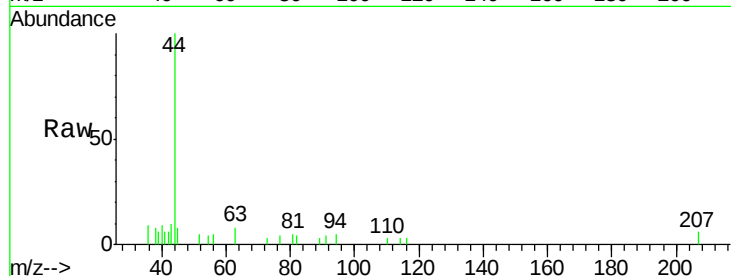
002-35TH-AVE(NOV)

Tot Ion: 56 Resp: 122

Ion Ratio Lower Upper

56 100

55 86.9 58.2 87.2



#15

Acetone

Concen: 1613.181 ug/l

RT: 3.78 min Scan# 634

Delta R.T. 0.00 min

Lab File: VN064522.D

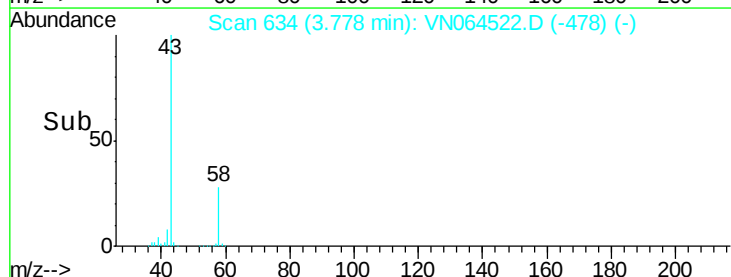
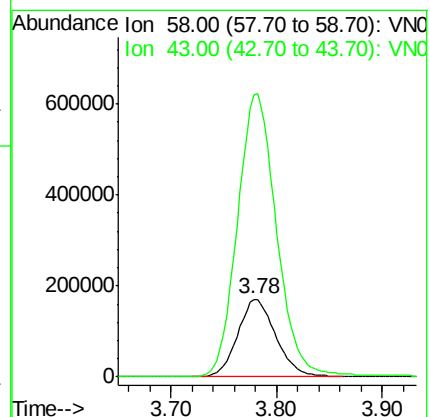
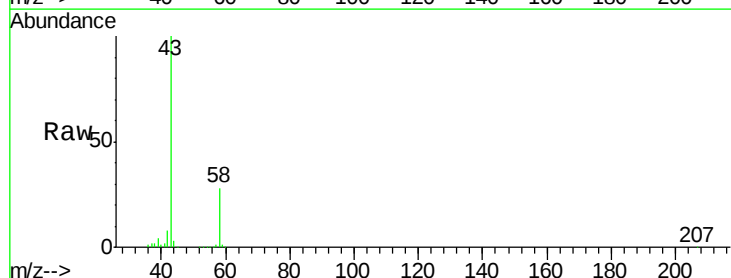
Acq: 10 Nov 2020 13:47

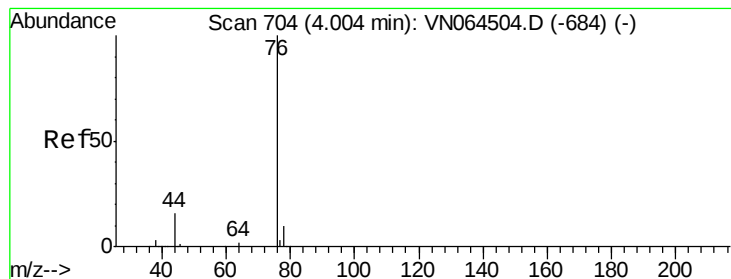
Tgt Ion: 58 Resp: 428744

Ion Ratio Lower Upper

58 100

43 362.6 289.8 434.8





#16

Carbon Disulfide

Concen: 0.282 ug/l

RT: 4.00 min Scan# 704

Delta R.T. -0.00 min

Lab File: VN064522.D

Acq: 10 Nov 2020 13:47

Instrument :

MSVOA_N

ClientSampleId :

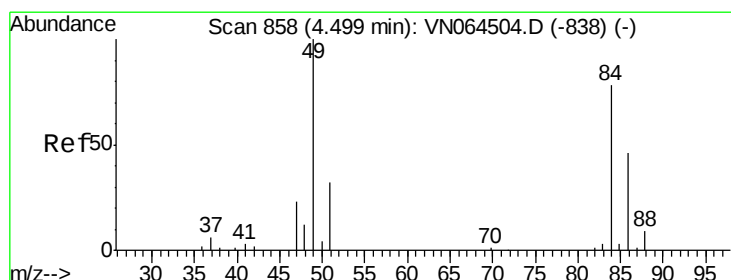
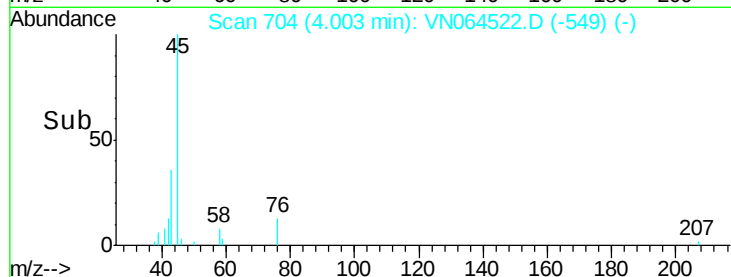
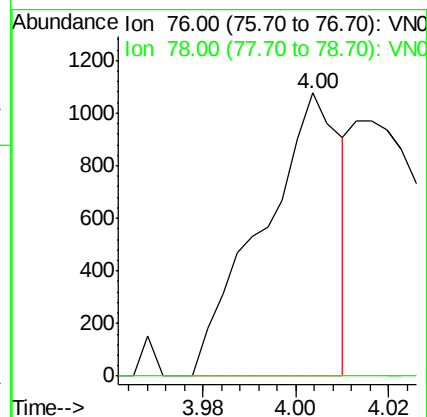
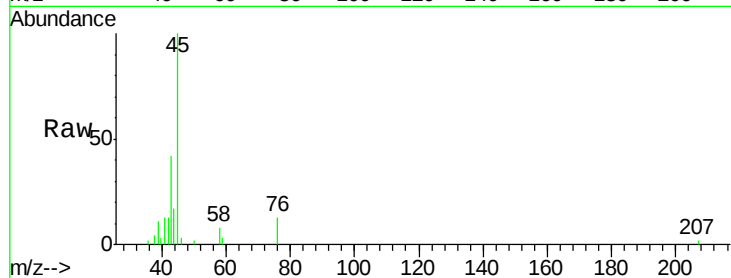
002-35TH-AVE(NOV)

Tot Ion: 76 Resp: 1270

Ion Ratio Lower Upper

76 100

78 0.0 7.6 11.4#



#18

Methylene Chloride

Concen: 0.529 ug/l

RT: 4.50 min Scan# 859

Delta R.T. 0.00 min

Lab File: VN064522.D

Acq: 10 Nov 2020 13:47

Tgt Ion: 84 Resp: 933

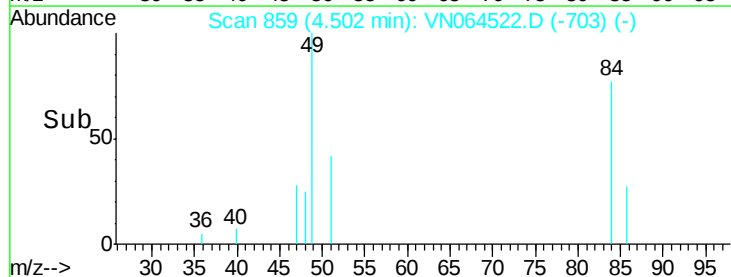
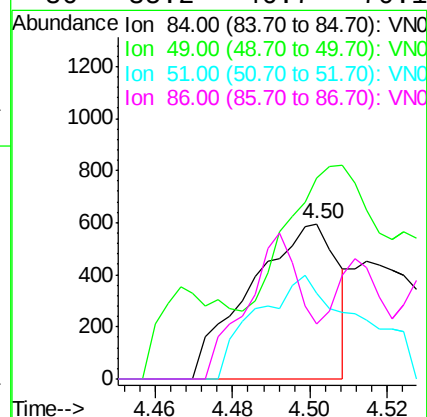
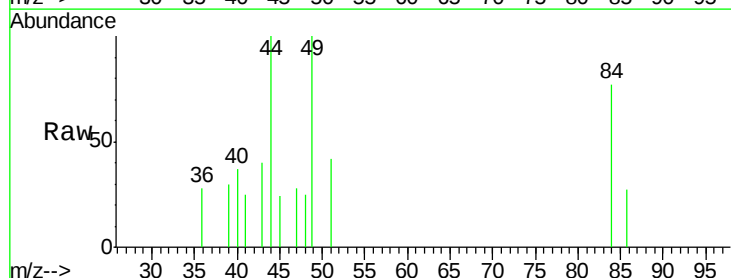
Ion Ratio Lower Upper

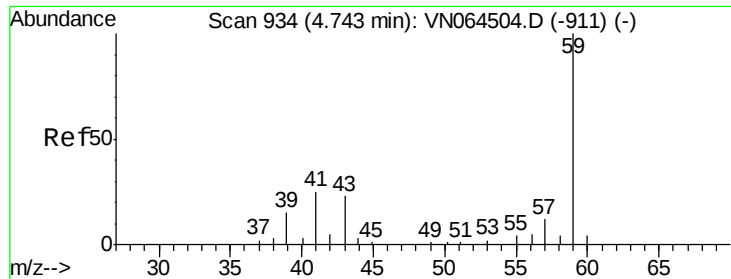
84 100

49 74.5 102.1 153.1#

51 54.9 32.6 48.8#

86 35.2 46.7 70.1#

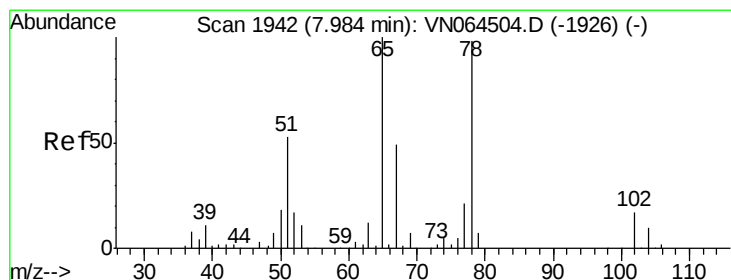
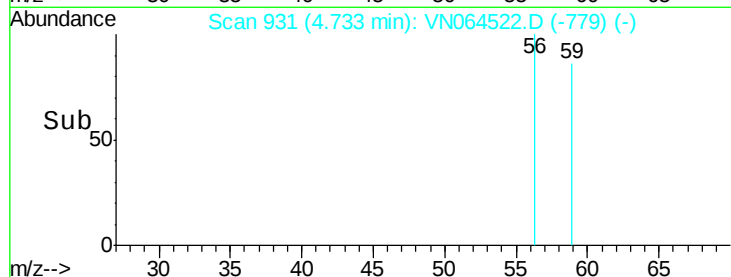
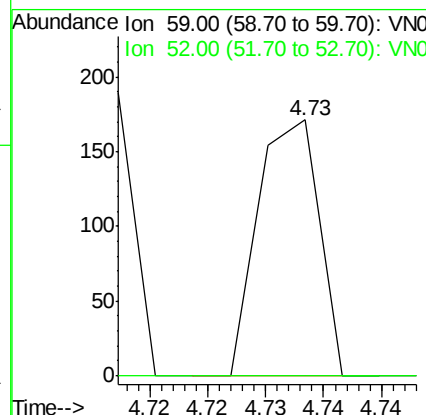
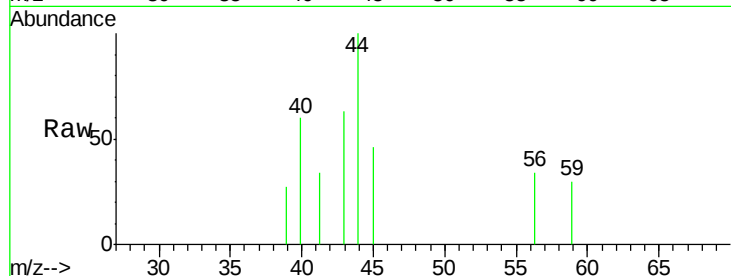




#23
 tert-Butyl Alcohol
 Concen: 0.228 ug/l
 RT: 4.73 min Scan# 931
 Delta R.T. -0.01 min
 Lab File: VN064522.D
 Acq: 10 Nov 2020 13:47

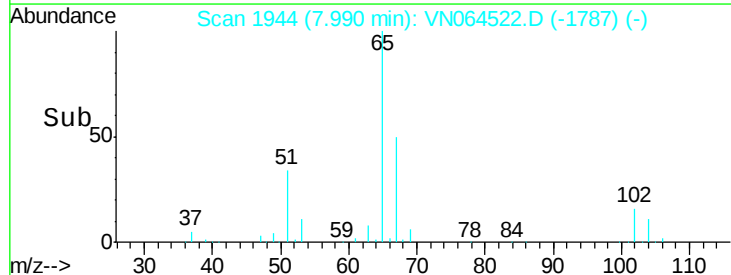
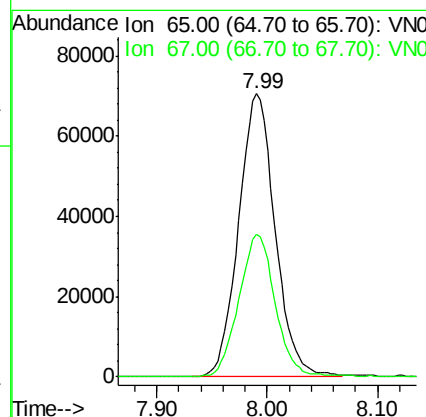
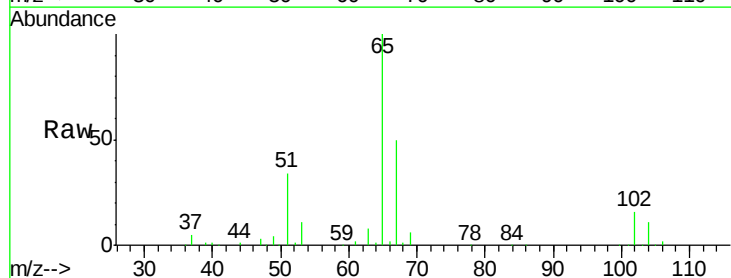
Instrument :
 MSVOA_N
 ClientSampleId :
 002-35TH-AVE(NOV)

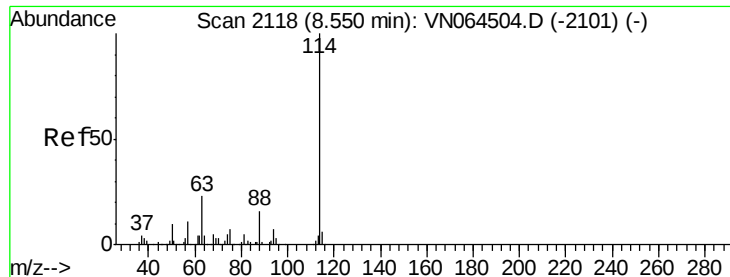
Tot Ion: 59 Resp: 63
 Ion Ratio Lower Upper
 59 100
 52 0.0 0.0 0.0



#27
 1,2-Dichloroethane-d4
 Concen: 66.248 ug/l
 RT: 7.99 min Scan# 1944
 Delta R.T. 0.01 min
 Lab File: VN064522.D
 Acq: 10 Nov 2020 13:47

Tgt Ion: 65 Resp: 161343
 Ion Ratio Lower Upper
 65 100
 67 49.6 41.1 61.7

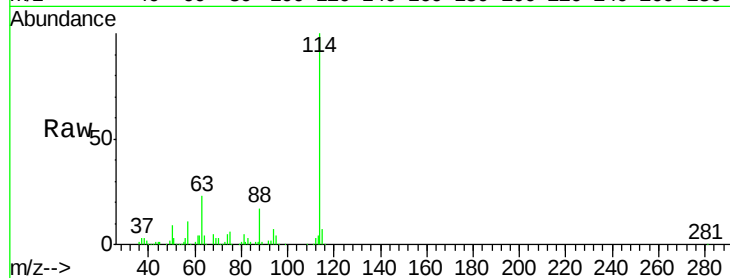




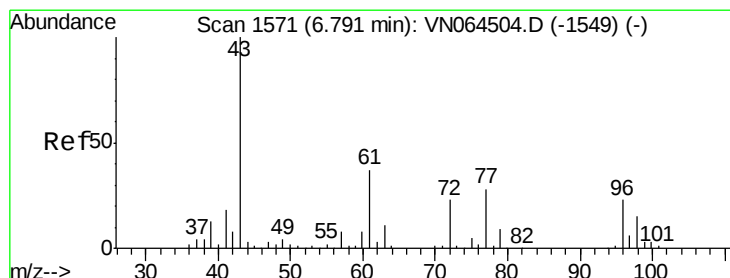
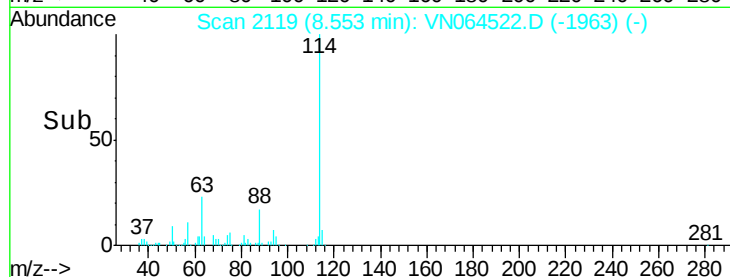
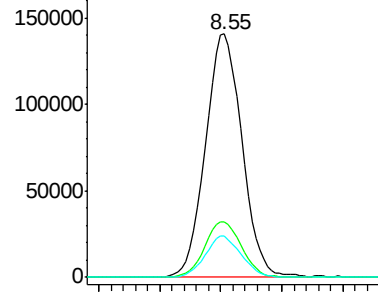
#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 8.55 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN064522.D
 Acq: 10 Nov 2020 13:47

Instrument :
 MSVOA_N
 ClientSampleId :
 002-35TH-AVE(NOV)

Tot Ion:114 Resp: 292376
 Ion Ratio Lower Upper
 114 100
 63 23.0 18.5 27.7
 88 16.8 13.0 19.6

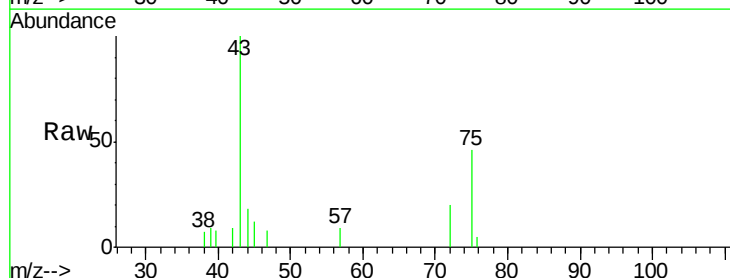


Abundance Ion 114.00 (113.70 to 114.70): V
 Ion 63.00 (62.70 to 63.70): VNO
 Ion 88.00 (87.70 to 88.70): VNO

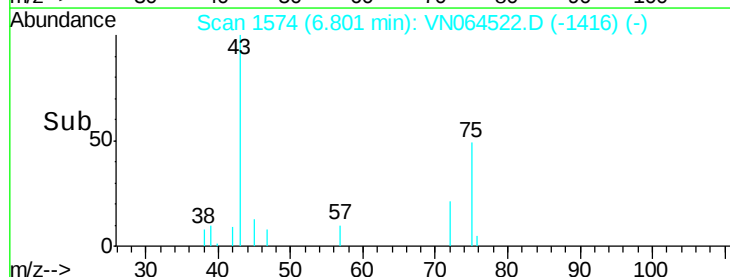
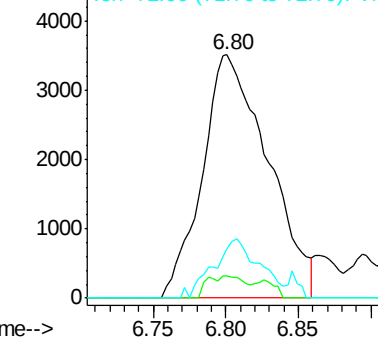


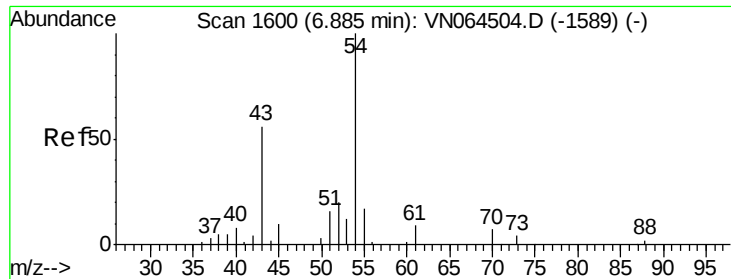
#30
 2-Butanone
 Concen: 4.396 ug/l
 RT: 6.80 min Scan# 1574
 Delta R.T. 0.01 min
 Lab File: VN064522.D
 Acq: 10 Nov 2020 13:47

Tgt Ion: 43 Resp: 11042
 Ion Ratio Lower Upper
 43 100
 57 3.3 6.2 9.4#
 72 13.2 9.9 14.9



Abundance Ion 43.00 (42.70 to 43.70): VNO
 Ion 57.00 (56.70 to 57.70): VNO
 Ion 72.00 (71.70 to 72.70): VNO





#43

Ethyl Acetate

Concen: 0.254 ug/l

RT: 6.89 min Scan# 1603

Delta R.T. 0.01 min

Lab File: VN064522.D

Acq: 10 Nov 2020 13:47

Instrument :

MSVOA_N

ClientSampleId :

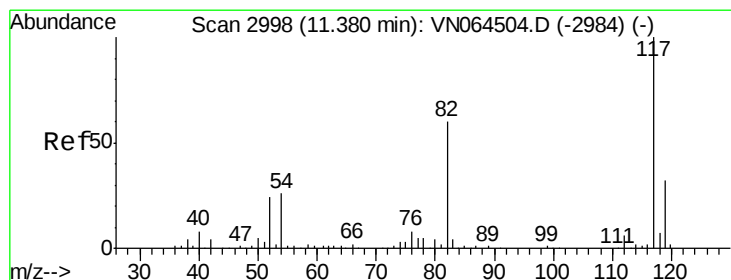
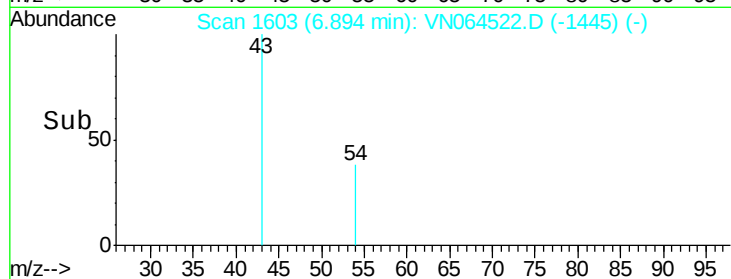
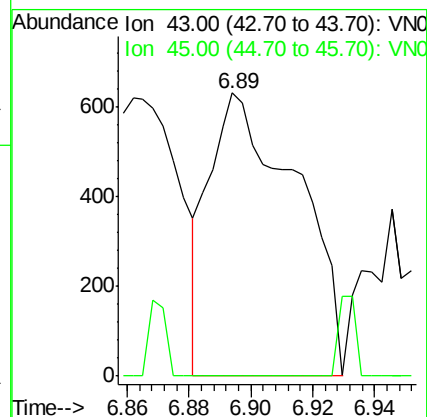
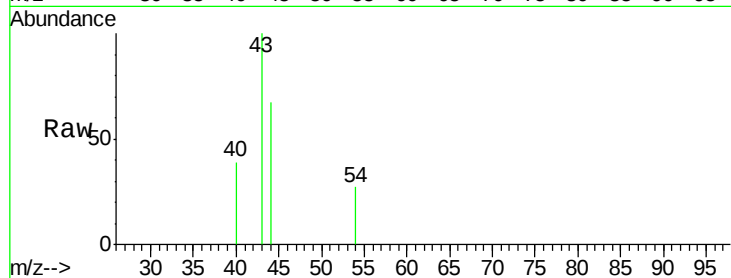
002-35TH-AVE(NOV)

Tot Ion: 43 Resp: 1240

Ion Ratio Lower Upper

43 100

45 5.0 10.9 16.3#



#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 11.38 min Scan# 2998

Delta R.T. -0.00 min

Lab File: VN064522.D

Acq: 10 Nov 2020 13:47

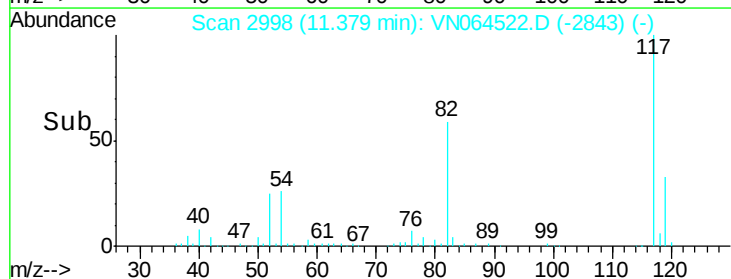
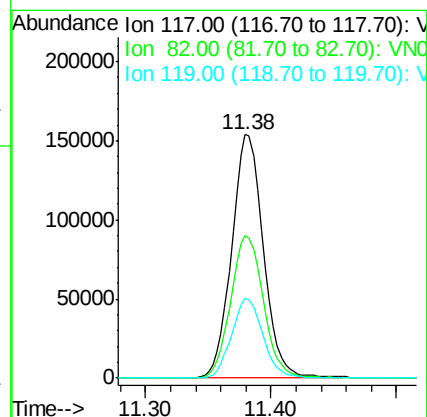
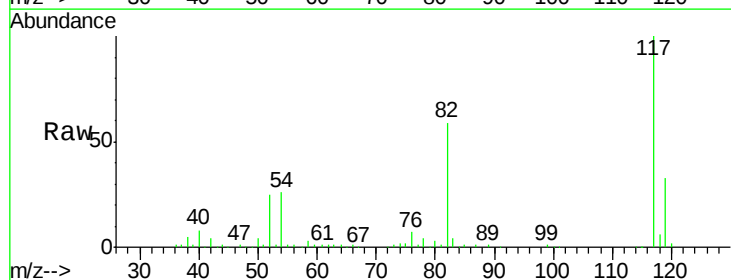
Tgt Ion: 117 Resp: 270656

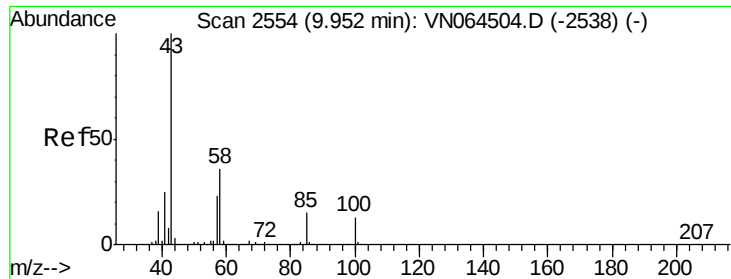
Ion Ratio Lower Upper

117 100

82 60.3 47.8 71.8

119 32.2 25.7 38.5

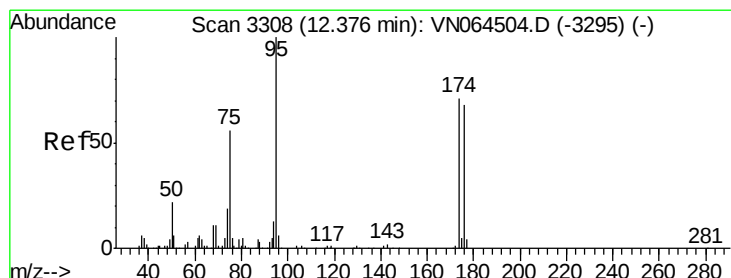
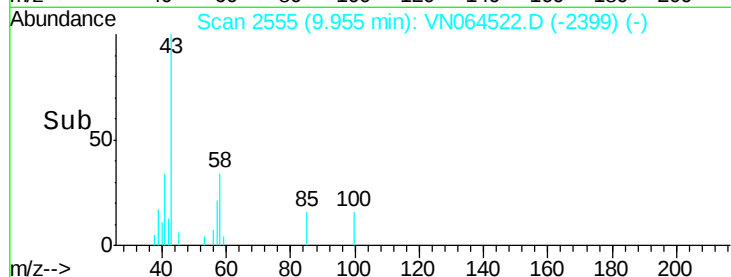
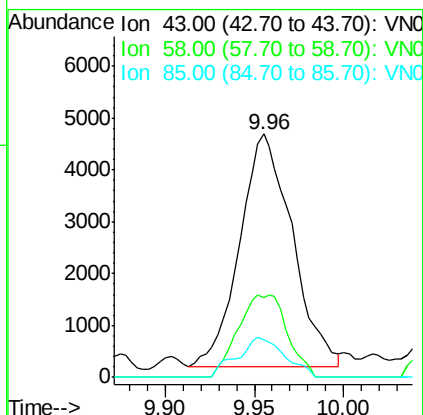
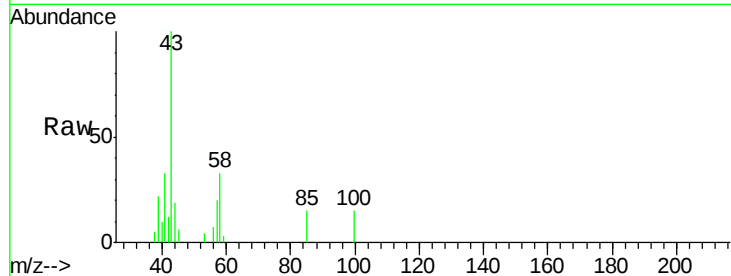




#58
 4-Methyl-2-Pentanone
 Concen: 1.856 ug/l
 RT: 9.96 min Scan# 2555
 Delta R.T. 0.00 min
 Lab File: VN064522.D
 Acq: 10 Nov 2020 13:47

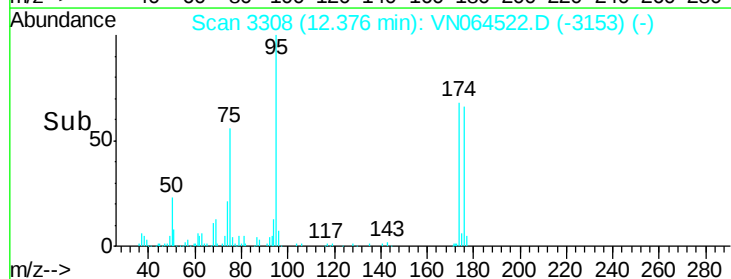
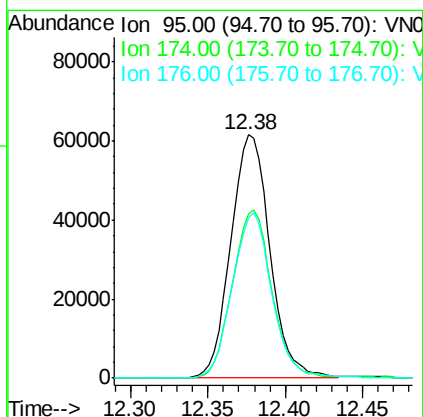
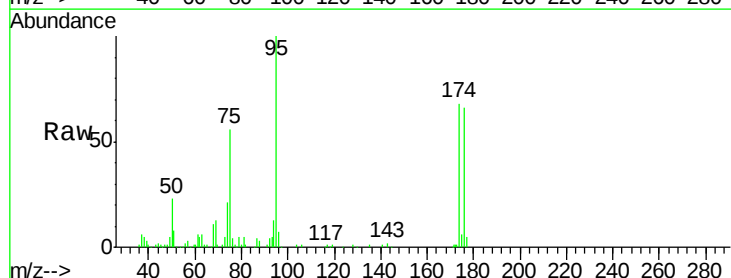
Instrument :
 MSVOA_N
 ClientSampleId :
 002-35TH-AVE(NOV)

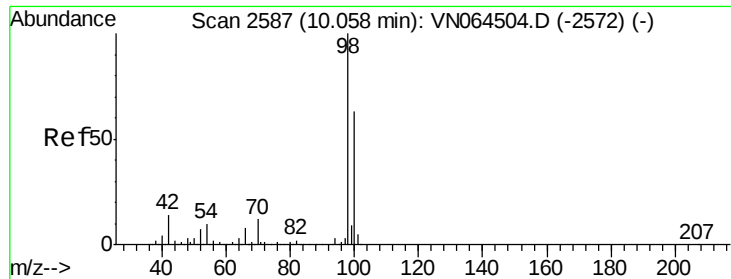
Tot Ion	43	Resp	9224
Ion Ratio	Lower	Upper	
43	100		
58	18.3	28.8	43.2#
85	15.6	12.3	18.5



#60
 4-Bromofluorobenzene
 Concen: 23.365 ug/l
 RT: 12.38 min Scan# 3308
 Delta R.T. -0.00 min
 Lab File: VN064522.D
 Acq: 10 Nov 2020 13:47

Tgt Ion	95	Resp	108330
Ion Ratio	Lower	Upper	
95	100		
174	70.0	56.4	84.6
176	68.5	53.3	79.9





#63

Toluene-d8

Concen: 29.019 ug/l

RT: 10.06 min Scan# 2588

Delta R.T. 0.00 min

Lab File: VN064522.D

Acq: 10 Nov 2020 13:47

Instrument :

MSVOA_N

ClientSampleId :

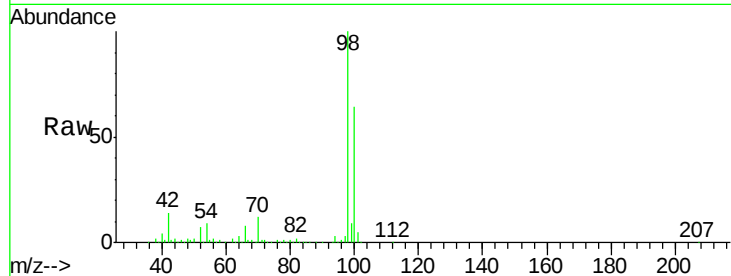
002-35TH-AVE(NOV)

Tot Ion: 98 Resp: 366302

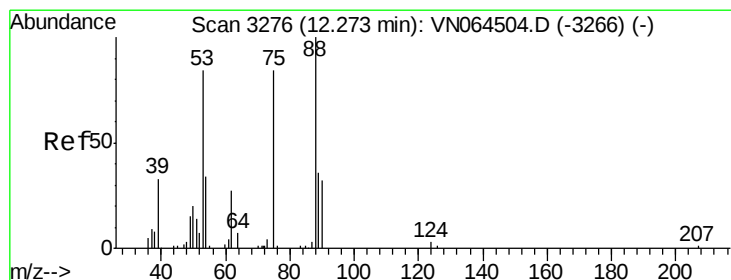
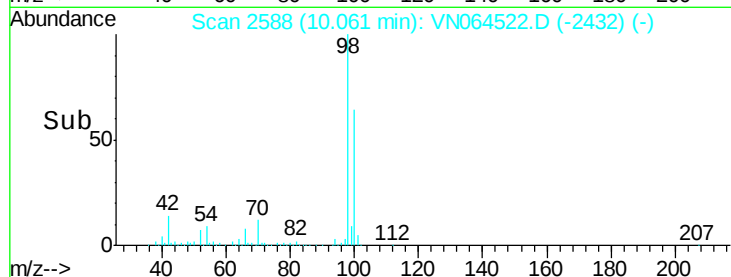
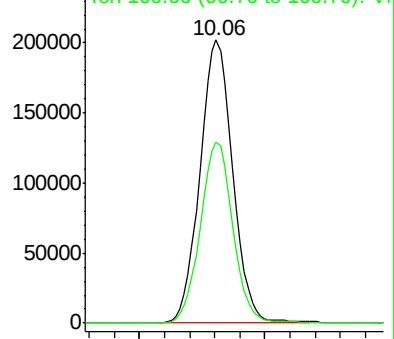
Ion Ratio Lower Upper

98 100

100 63.4 49.4 74.2



Abundance Ion 98.00 (97.70 to 98.70): VN064504.D (-2572) (-)



#77

t-1,4-Dichloro-2-butene

Concen: 33.679 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN064522.D

Acq: 10 Nov 2020 13:47

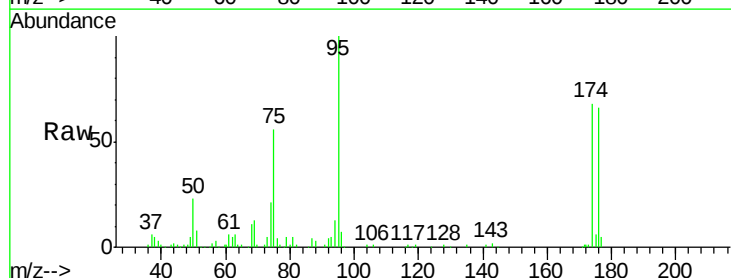
Tgt Ion: 75 Resp: 61505

Ion Ratio Lower Upper

75 100

53 0.4 50.3 150.9#

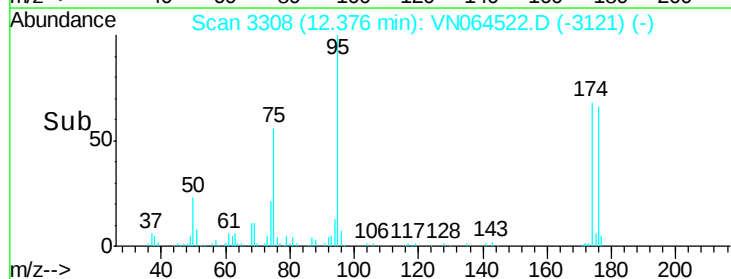
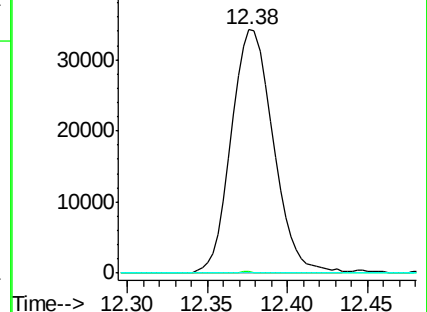
89 0.0 23.3 69.8#

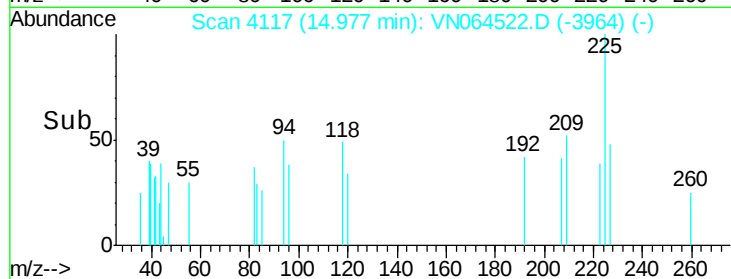
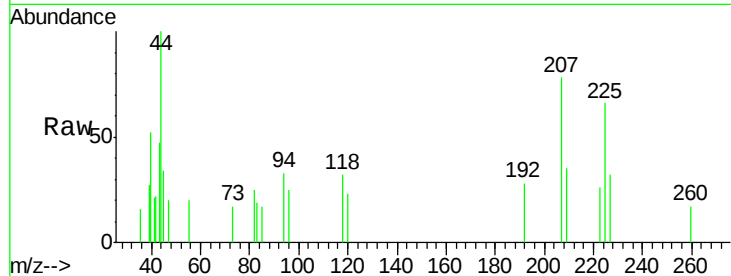
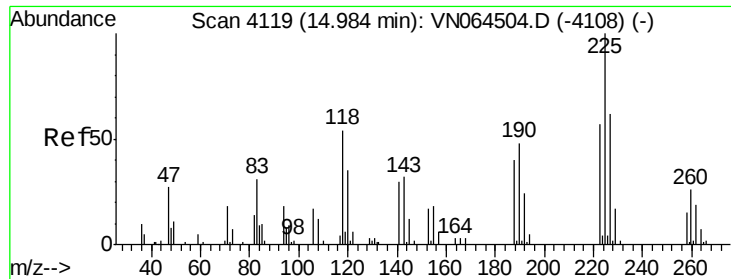


Abundance Ion 75.00 (74.70 to 75.70): VN064504.D (-3266) (-)

Ion 53.00 (52.70 to 53.70): VN064504.D (-3266) (-)

Ion 89.00 (88.70 to 89.70): VN064504.D (-3266) (-)





#90

Hexachlorobutadiene

Concen: 0.531 ug/l

RT: 14.98 min Scan# 4117

Delta R.T. -0.01 min

Lab File: VN064522.D

Acq: 10 Nov 2020 13:47

Instrument :

MSVOA_N

ClientSampleId :

002-35TH-AVE(NOV)

Tot Ion: 225 Resp: 798

Ion Ratio Lower Upper

225 100

223 42.2 0.0 125.4

227 25.2 0.0 122.0

