

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN110920\
 Data File : VN064512.D
 Acq On : 9 Nov 2020 17:34
 Operator : JC/MD
 Sample : L4628-01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Nov 10 03:18:24 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	60183	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.55	114	313242	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.38	117	280833	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	7.99	65	168989	31.72	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	105.73%
60) 4-Bromofluorobenzene	12.38	95	116112	24.14	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	80.47%
63) Toluene-d8	10.06	98	384840	29.38	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	97.93%

Target Compounds

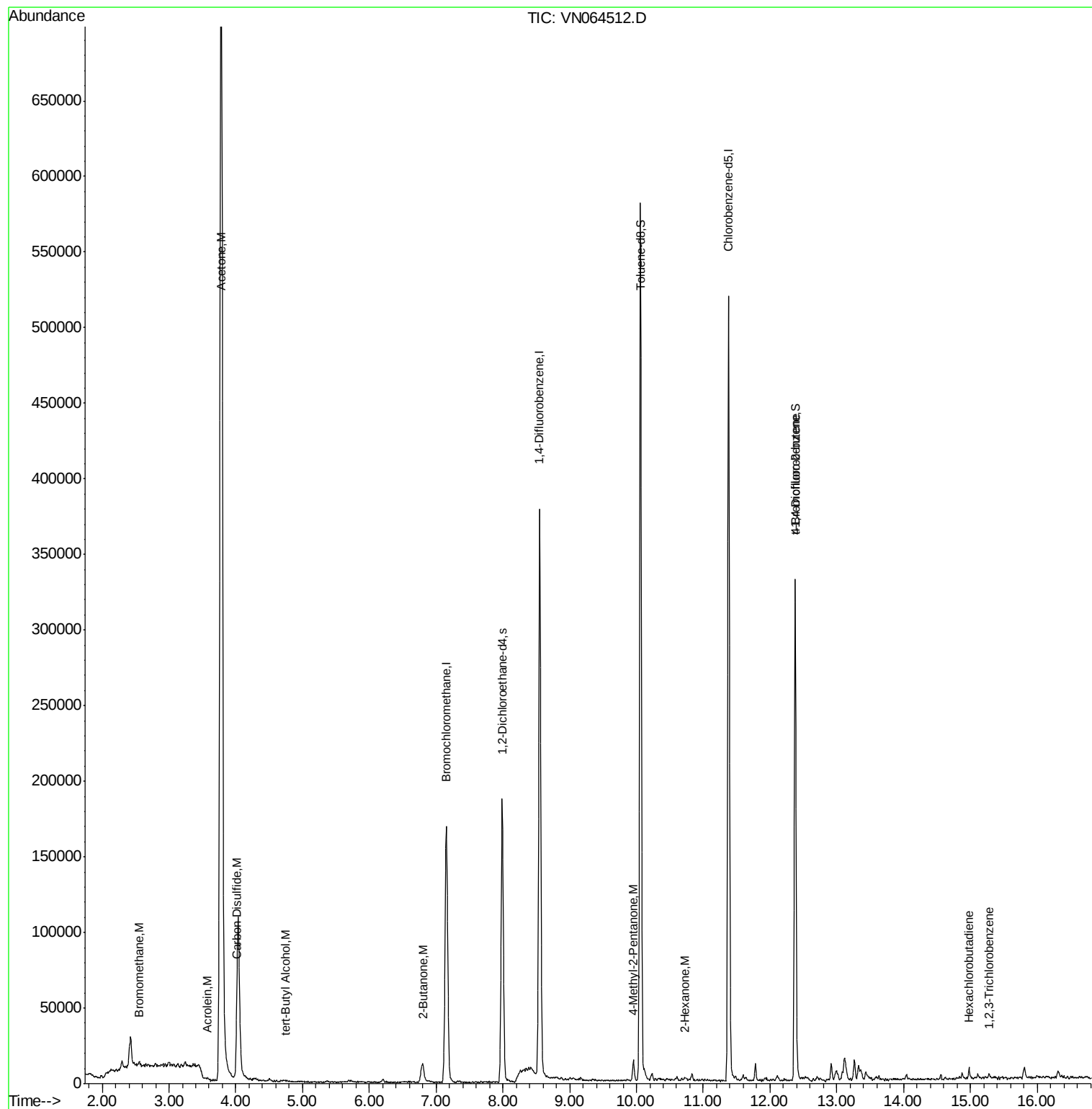
					Ovalue	
5) Bromomethane	2.55	94	662	0.203	ug/l #	37
13) Acrolein	3.59	56	326	0.814	ug/l	97
15) Acetone	3.78	58	441294	759.007	ug/l	95
16) Carbon Disulfide	4.00	76	3346	0.339	ug/l #	92
23) tert-Butyl Alcohol	4.75	59	258	0.428	ug/l #	100
30) 2-Butanone	6.79	43	5511	2.048	ug/l #	92
58) 4-Methyl-2-Pentanone	9.96	43	9472	1.837	ug/l #	94
59) 2-Hexanone	10.73	43	804	0.207	ug/l #	70
77) t-1,4-Dichloro-2-butene	12.38	75	64920	34.261	ug/l #	9
90) Hexachlorobutadiene	14.98	225	971	0.623	ug/l	83
92) 1,2,3-Trichlorobenzene	15.29	180	1381	0.436	ug/l	58

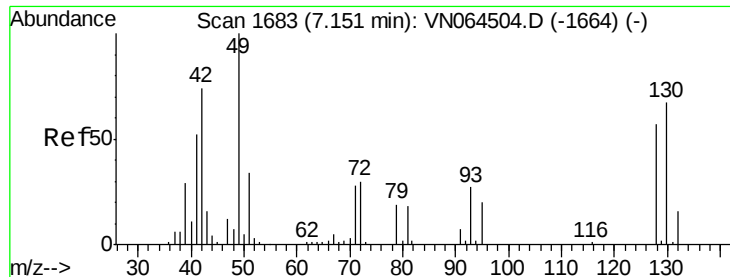
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N110920W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
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Response via : Initial Calibration

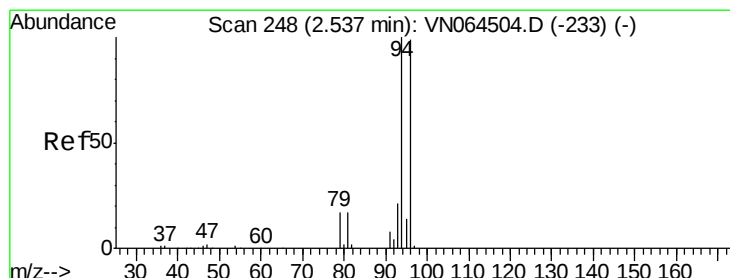
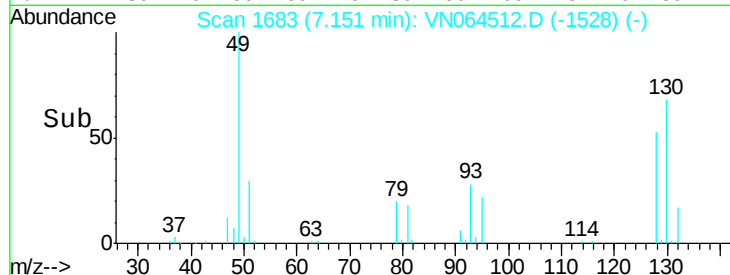
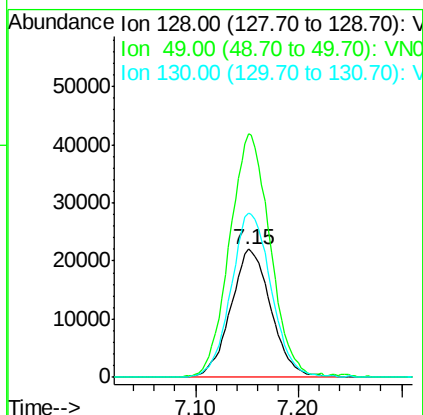
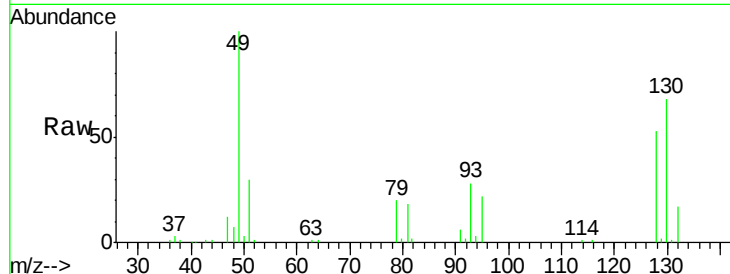




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.15 min Scan# 1683
Delta R.T. -0.00 min
Lab File: VN064512.D
Acq: 9 Nov 2020 17:34

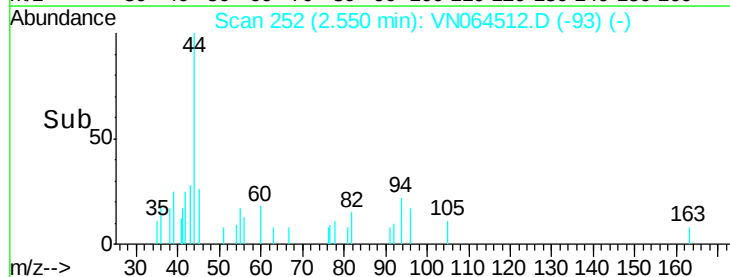
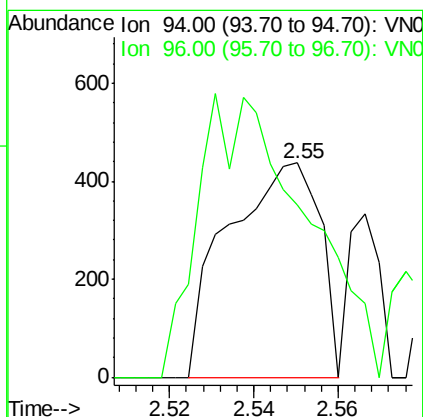
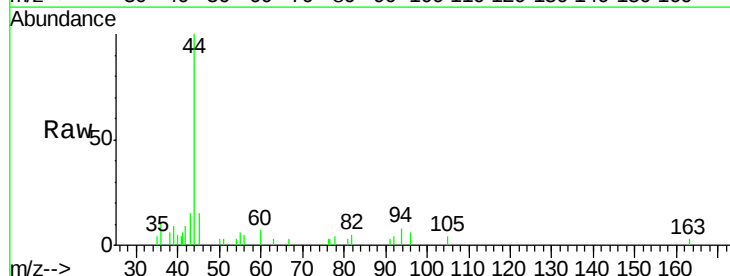
Instrument :
MSVOA_N
ClientSampleId :

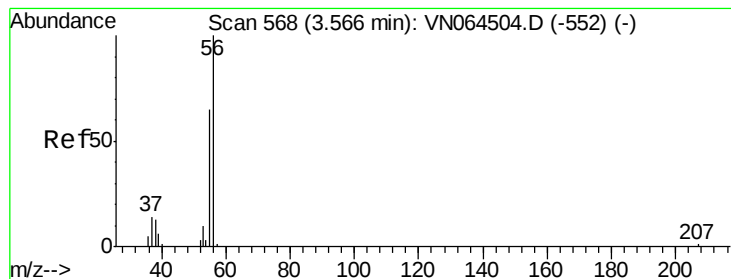
Tot Ion:128 Resp: 60183
Ion Ratio Lower Upper
128 100
49 189.8 0.0 475.5
130 128.0 0.0 315.3



#5
Bromomethane
Concen: 0.203 ug/l
RT: 2.55 min Scan# 252
Delta R.T. 0.01 min
Lab File: VN064512.D
Acq: 9 Nov 2020 17:34

Tgt Ion: 94 Resp: 662
Ion Ratio Lower Upper
94 100
96 36.8 79.3 118.9#





#13

Acrolein

Concen: 0.814 ug/l

RT: 3.59 min Scan# 575

Delta R.T. 0.02 min

Lab File: VN064512.D

Acq: 9 Nov 2020 17:34

Instrument :

MSVOA_N

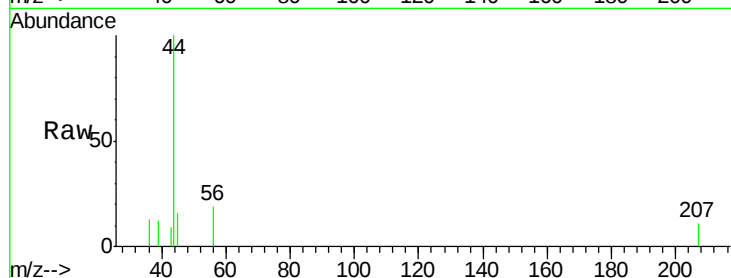
ClientSampled :

Tot Ion: 56 Resp: 326

Ion Ratio Lower Upper

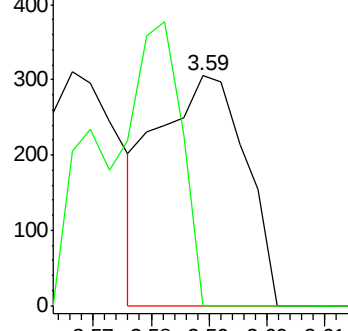
56 100

55 69.9 58.2 87.2

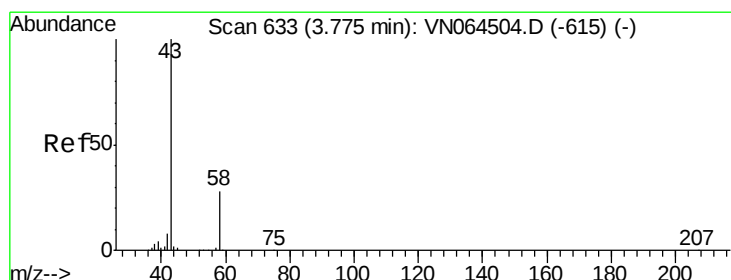
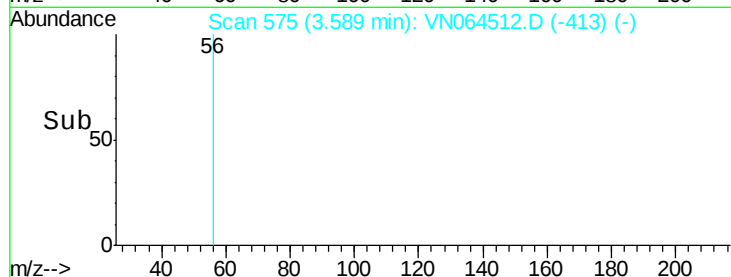


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



Time-->



#15

Acetone

Concen: 759.007 ug/l

RT: 3.78 min Scan# 635

Delta R.T. 0.01 min

Lab File: VN064512.D

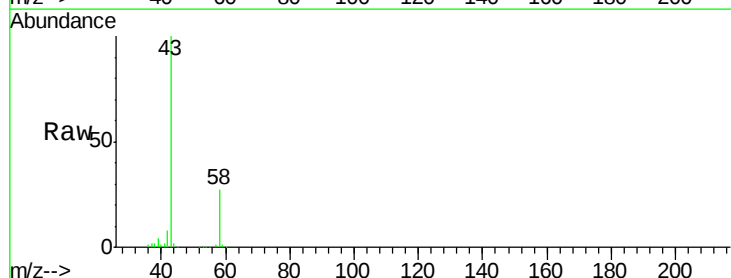
Acq: 9 Nov 2020 17:34

Tgt Ion: 58 Resp: 441294

Ion Ratio Lower Upper

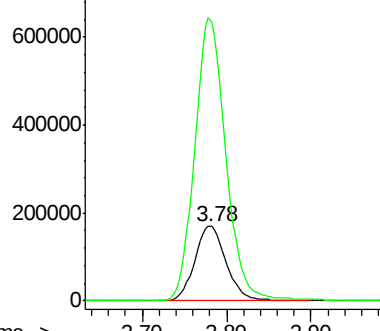
58 100

43 372.6 289.8 434.8

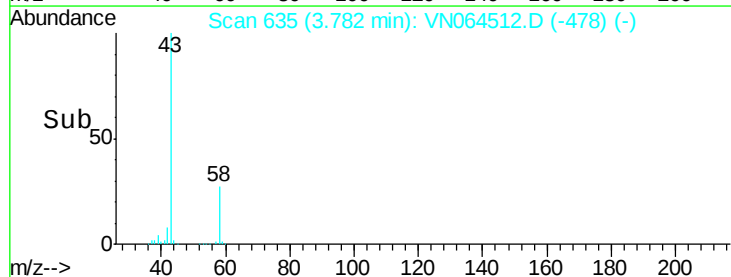


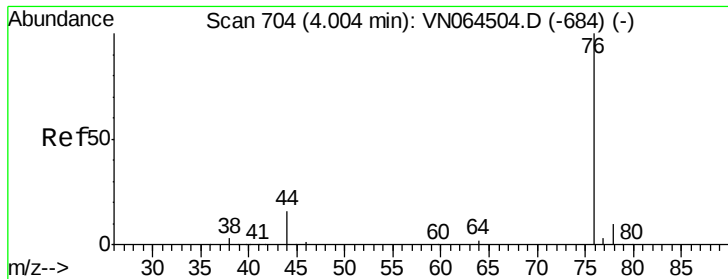
Abundance Ion 58.00 (57.70 to 58.70): VN0

Ion 43.00 (42.70 to 43.70): VN0



Time-->

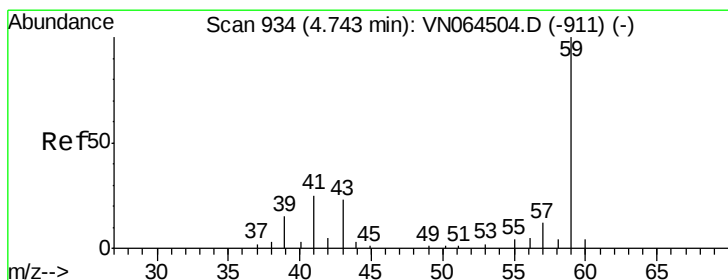
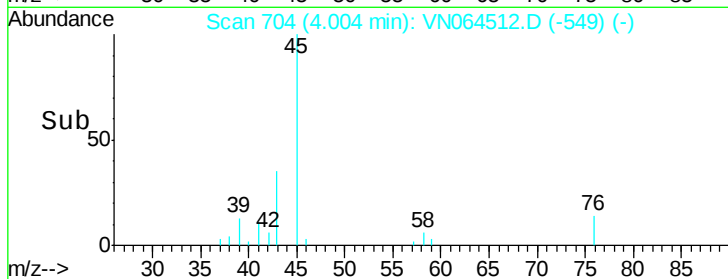
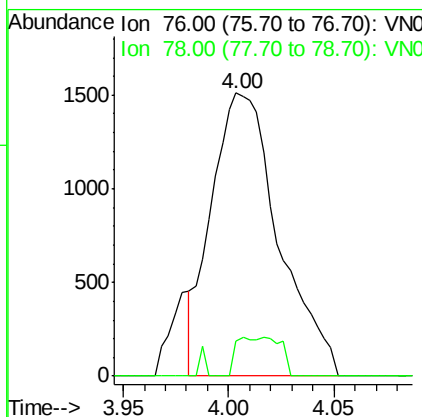
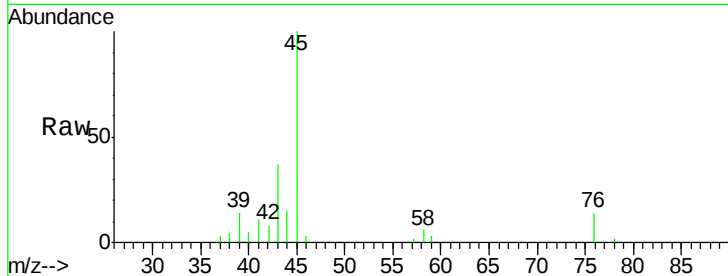




#16
Carbon Disulfide
Concen: 0.339 ug/l
RT: 4.00 min Scan# 704
Delta R.T. -0.00 min
Lab File: VN064512.D
Acq: 9 Nov 2020 17:34

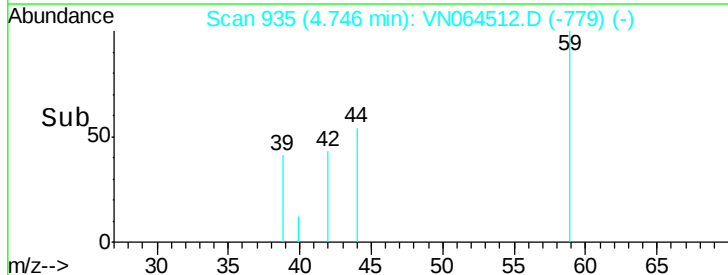
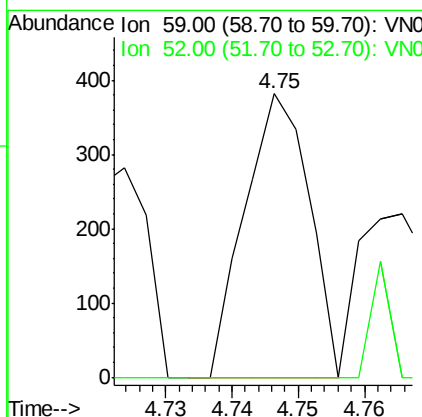
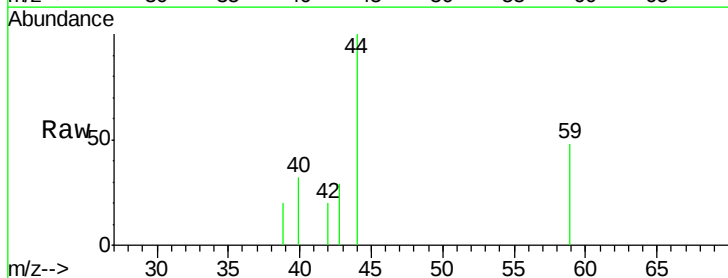
Instrument :
MSVOA_N
ClientSampled :

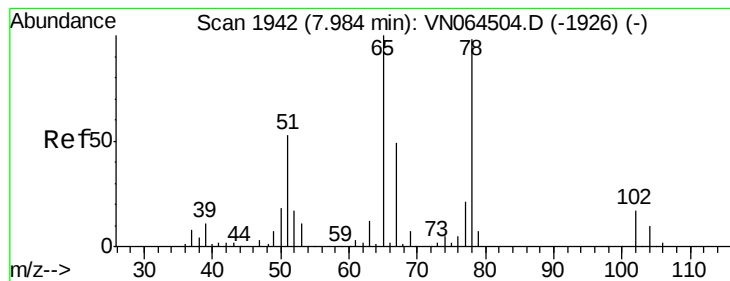
Tot Ion: 76 Resp: 3346
Ion Ratio Lower Upper
76 100
78 12.3 7.6 11.4#



#23
tert-Butyl Alcohol
Concen: 0.428 ug/l
RT: 4.75 min Scan# 935
Delta R.T. 0.00 min
Lab File: VN064512.D
Acq: 9 Nov 2020 17:34

Tgt Ion: 59 Resp: 258
Ion Ratio Lower Upper
59 100
52 0.0 0.0 0.0





#27

1,2-Dichloroethane-d4

Concen: 31.719 ug/l

RT: 7.99 min Scan# 1944

Delta R.T. 0.01 min

Lab File: VN064512.D

Acq: 9 Nov 2020 17:34

Instrument :

MSVOA_N

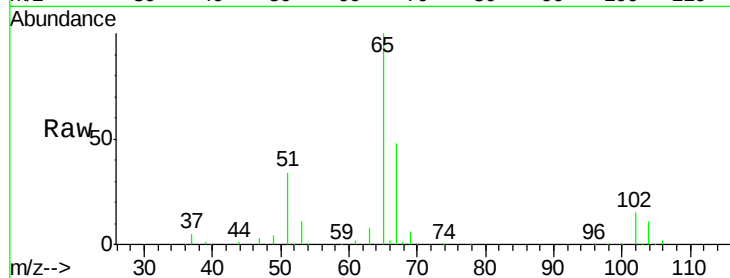
ClientSampled :

Tot Ion: 65 Resp: 168989

Ion Ratio Lower Upper

65 100

67 49.1 41.1 61.7



Abundance Ion 65.00 (64.70 to 65.70): VN064512.D (-1926) (-)

Ion 67.00 (66.70 to 67.70): VN064512.D (-1926) (-)

7.99

80000

60000

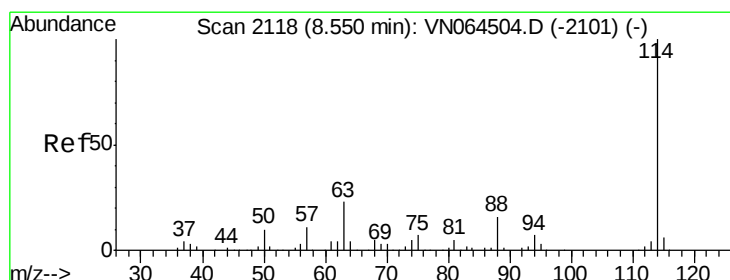
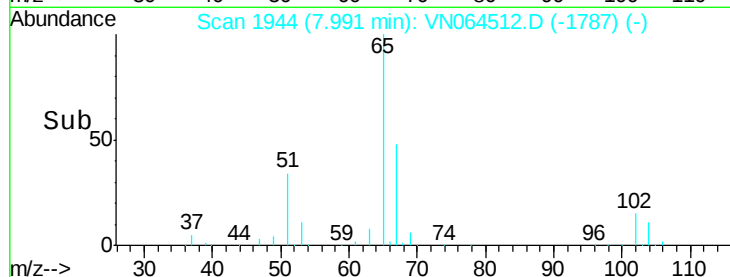
40000

20000

0

7.90 7.95 8.00 8.05 8.10

Time-->



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 8.55 min Scan# 2118

Delta R.T. -0.00 min

Lab File: VN064512.D

Acq: 9 Nov 2020 17:34

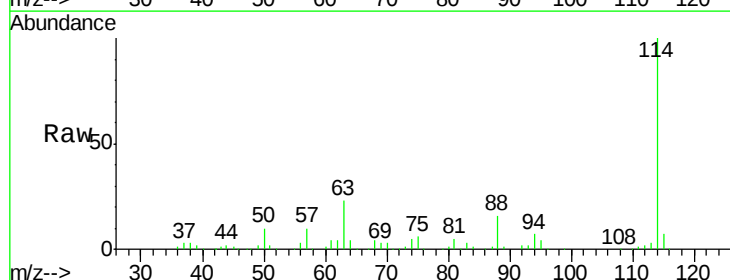
Tgt Ion: 114 Resp: 313242

Ion Ratio Lower Upper

114 100

63 22.7 18.5 27.7

88 16.3 13.0 19.6



Abundance Ion 114.00 (113.70 to 114.70): VN064512.D (-2101) (-)

Ion 63.00 (62.70 to 63.70): VN064512.D (-2101) (-)

Ion 88.00 (87.70 to 88.70): VN064512.D (-2101) (-)

8.55

200000

150000

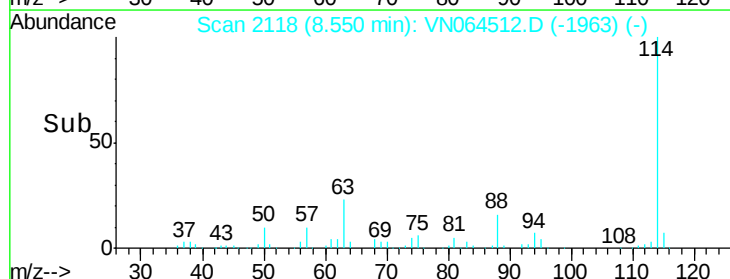
100000

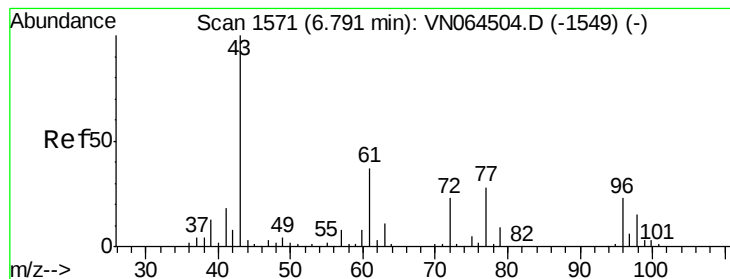
50000

0

8.45 8.50 8.55 8.60 8.65

Time-->





#30

2-Butanone

Concen: 2.048 ug/l

RT: 6.79 min Scan# 1572

Delta R.T. 0.00 min

Lab File: VN064512.D

Acq: 9 Nov 2020 17:34

Instrument :

MSVOA_N

ClientSampleId :

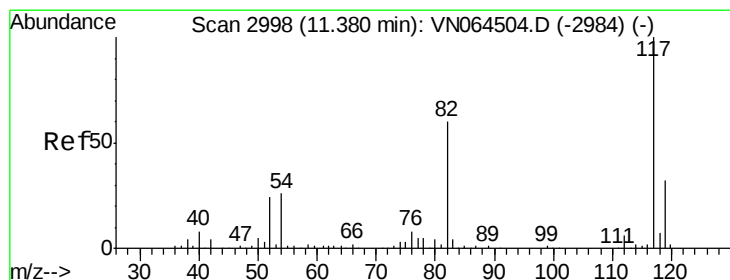
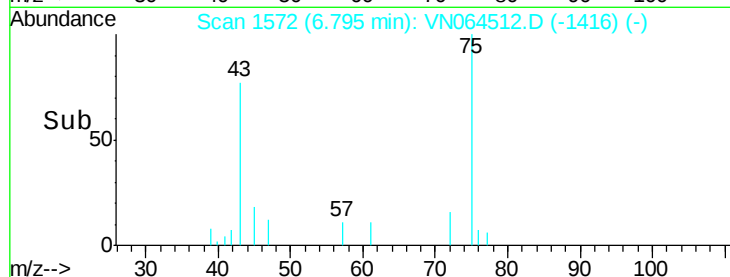
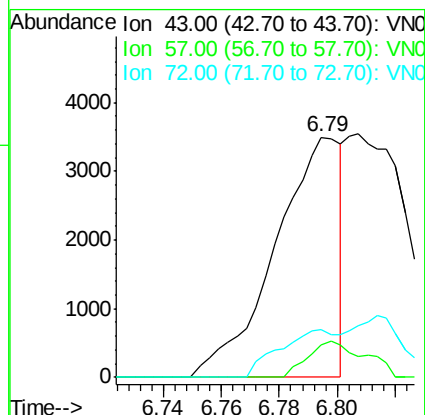
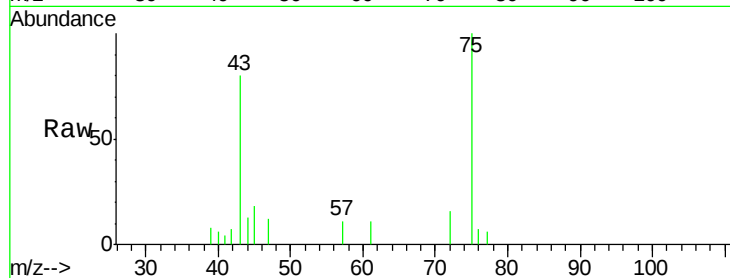
Tot Ion: 43 Resp: 5511

Ion Ratio Lower Upper

43 100

57 10.0 6.2 9.4#

72 15.7 9.9 14.9#



#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 11.38 min Scan# 2998

Delta R.T. -0.00 min

Lab File: VN064512.D

Acq: 9 Nov 2020 17:34

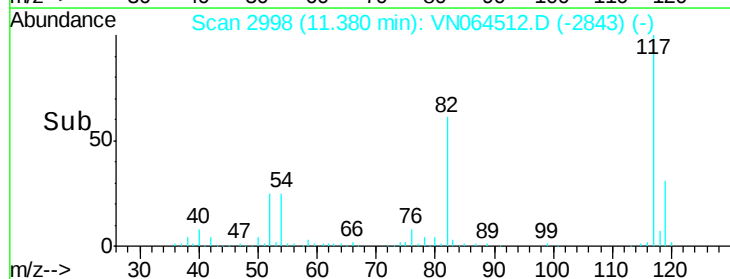
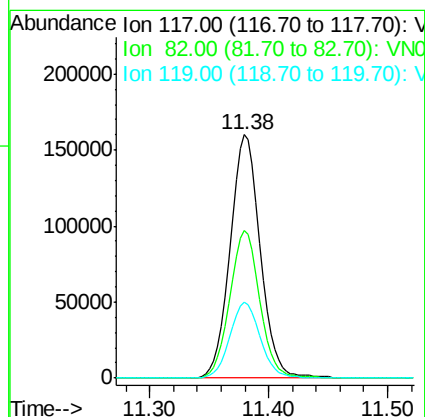
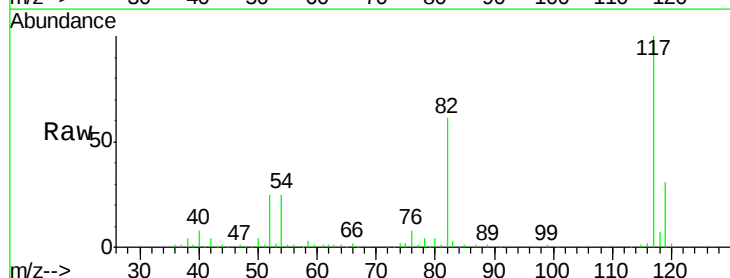
Tgt Ion: 117 Resp: 280833

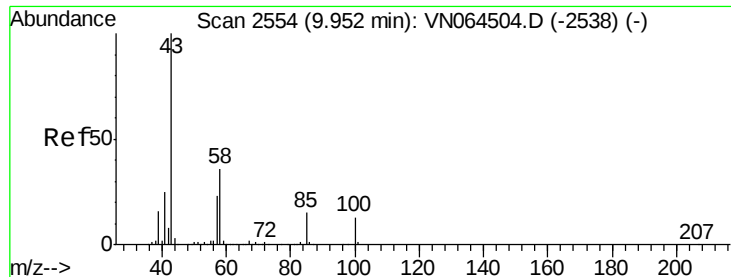
Ion Ratio Lower Upper

117 100

82 60.7 47.8 71.8

119 31.3 25.7 38.5

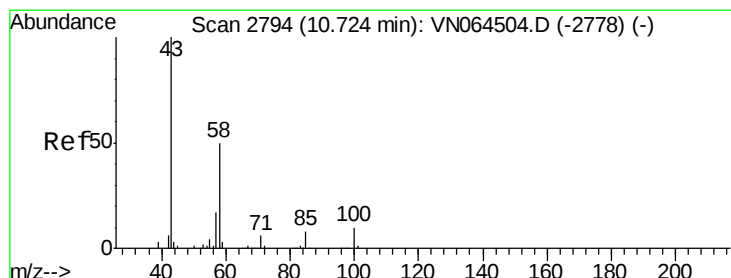
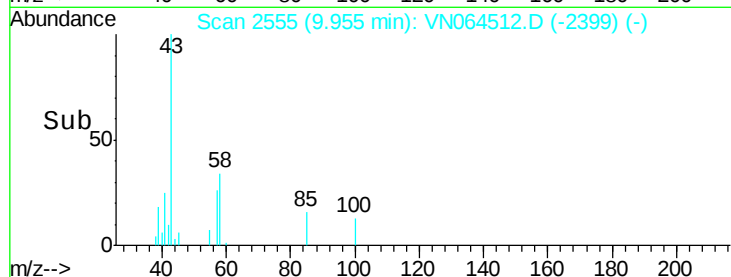
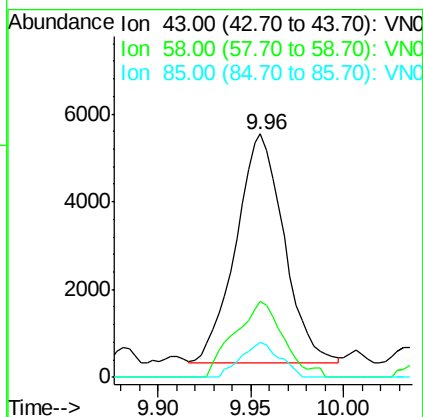
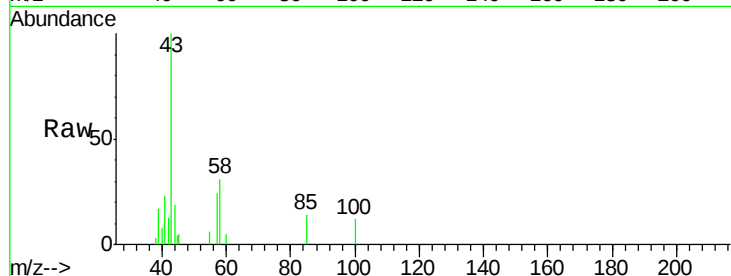




#58
 4-Methyl-2-Pentanone
 Concen: 1.837 ug/l
 RT: 9.96 min Scan# 2555
 Delta R.T. 0.00 min
 Lab File: VN064512.D
 Acq: 9 Nov 2020 17:34

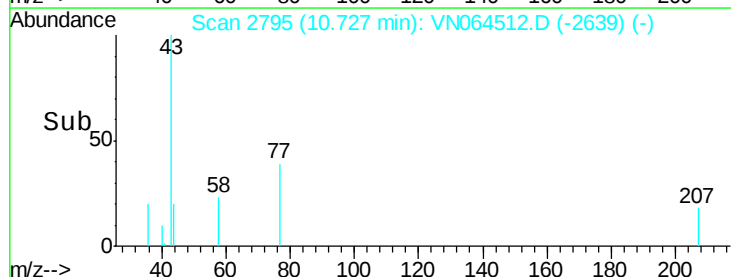
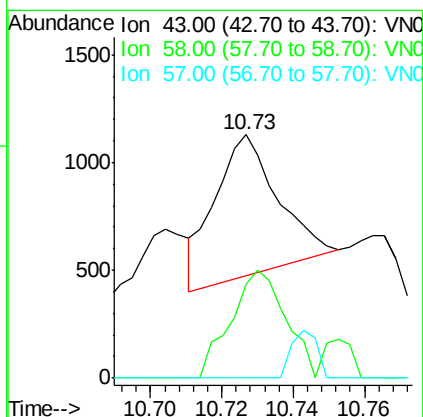
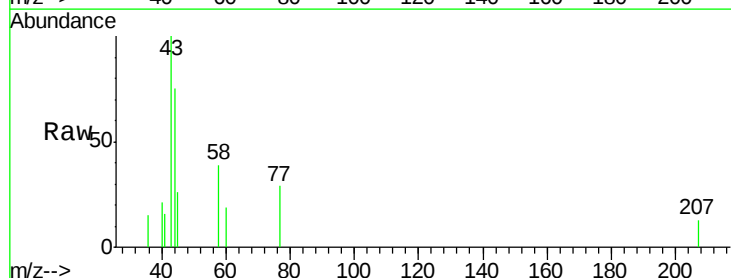
Instrument :
 MSVOA_N
 ClientSampleId :

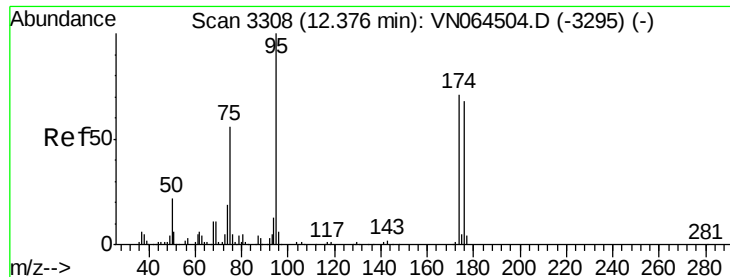
Tot Ion	43	Resp	9472
Ion Ratio	Lower	Upper	
43	100		
58	32.6	28.8	43.2
85	12.2	12.3	18.5#



#59
 2-Hexanone
 Concen: 0.207 ug/l
 RT: 10.73 min Scan# 2795
 Delta R.T. 0.00 min
 Lab File: VN064512.D
 Acq: 9 Nov 2020 17:34

Tgt Ion	43	Resp	804
Ion Ratio	Lower	Upper	
43	100		
58	66.0	38.2	57.4#
57	0.0	13.8	20.8#





#60

4-Bromofluorobenzene

Concen: 24.136 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.00 min

Lab File: VN064512.D

Acq: 9 Nov 2020 17:34

Instrument :

MSVOA_N

ClientSampleId :

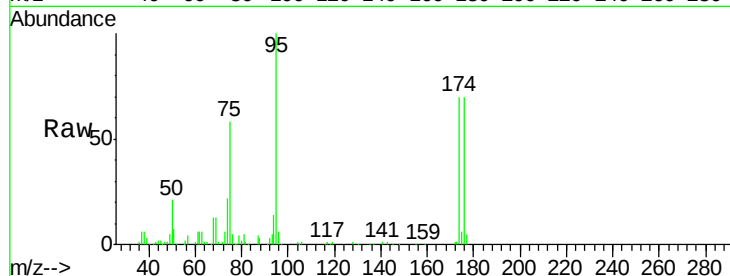
Tot Ion: 95 Resp: 116112

Ion Ratio Lower Upper

95 100

174 69.6 56.4 84.6

176 66.9 53.3 79.9

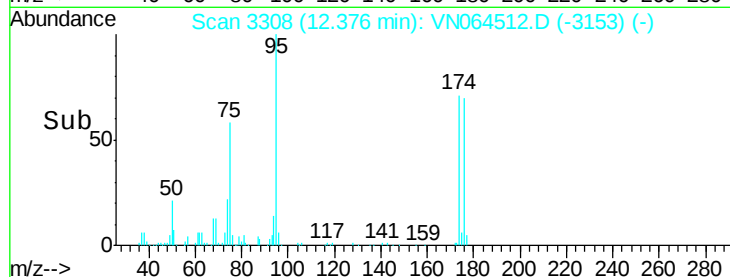


Abundance Ion 95.00 (94.70 to 95.70): VN064504.D (-3295) (-)

Ion 174.00 (173.70 to 174.70): VN064504.D (-3295) (-)

Ion 176.00 (175.70 to 176.70): VN064504.D (-3295) (-)

Time-->

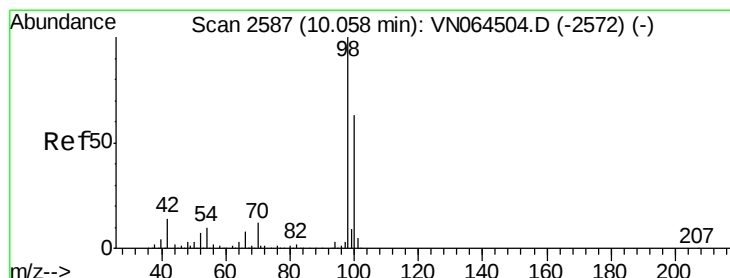


Abundance Ion 95.00 (94.70 to 95.70): VN064512.D (-3153) (-)

Ion 174.00 (173.70 to 174.70): VN064512.D (-3153) (-)

Ion 176.00 (175.70 to 176.70): VN064512.D (-3153) (-)

Time-->



#63

Toluene-d8

Concen: 29.383 ug/l

RT: 10.06 min Scan# 2588

Delta R.T. 0.00 min

Lab File: VN064512.D

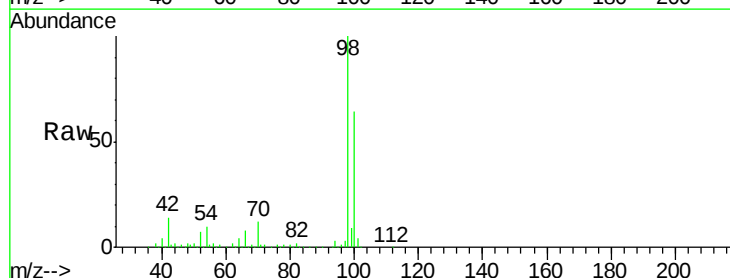
Acq: 9 Nov 2020 17:34

Tgt Ion: 98 Resp: 384840

Ion Ratio Lower Upper

98 100

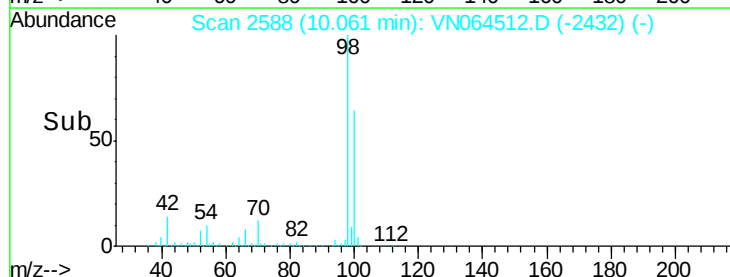
100 64.2 49.4 74.2



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

Ion 100.00 (99.70 to 100.70): VN064504.D (-2572) (-)

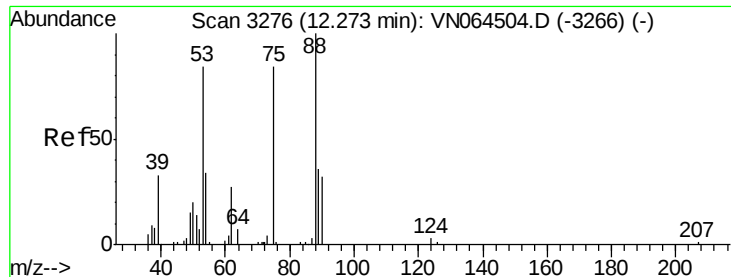
Time-->



Abundance Ion 98.00 (97.70 to 98.70): VN064512.D (-2432) (-)

Ion 100.00 (99.70 to 100.70): VN064512.D (-2432) (-)

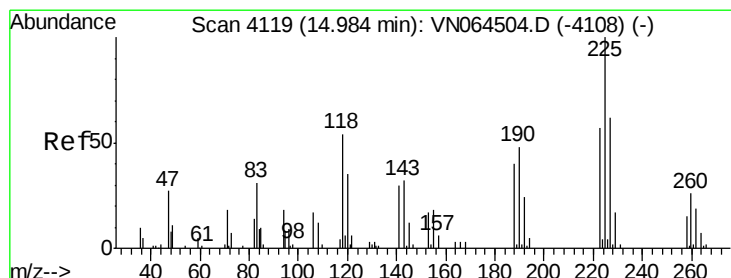
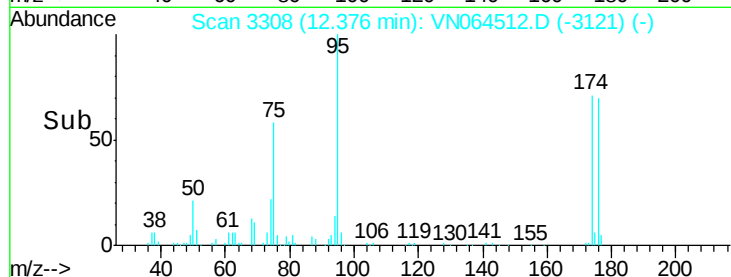
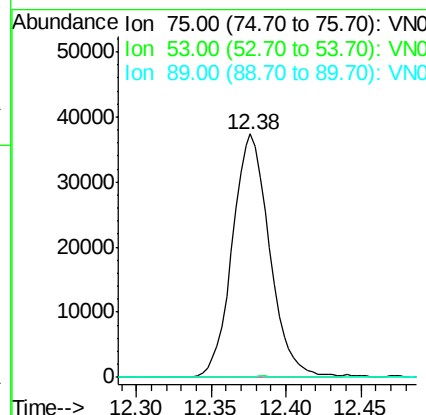
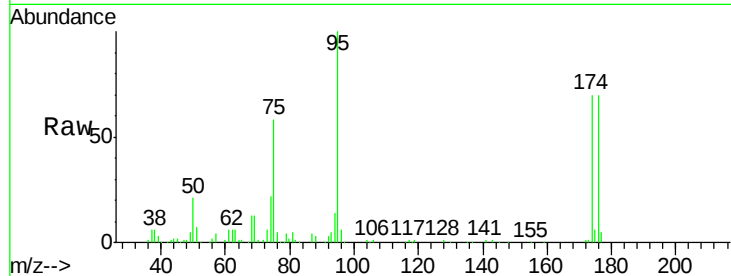
Time-->



#77
t-1,4-Dichloro-2-butene
Concen: 34.261 ug/l
RT: 12.38 min Scan# 3308
Delta R.T. 0.10 min
Lab File: VN064512.D
Acq: 9 Nov 2020 17:34

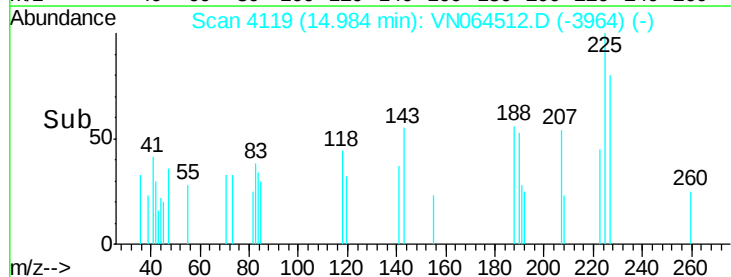
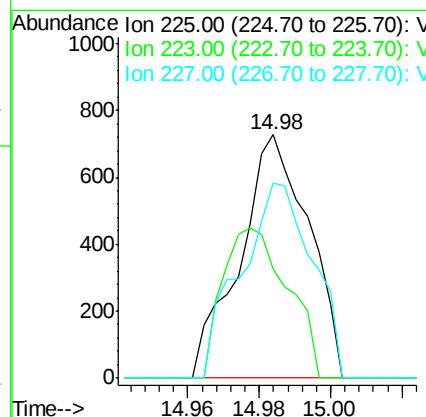
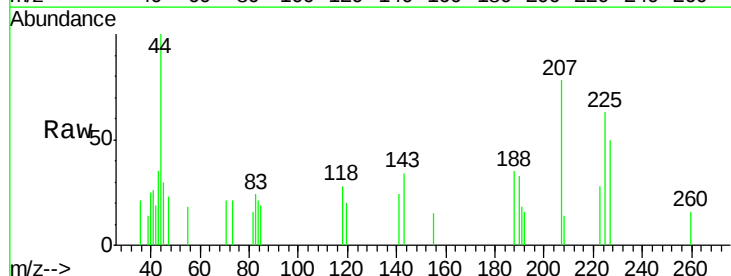
Instrument :
MSVOA_N
ClientSampled :

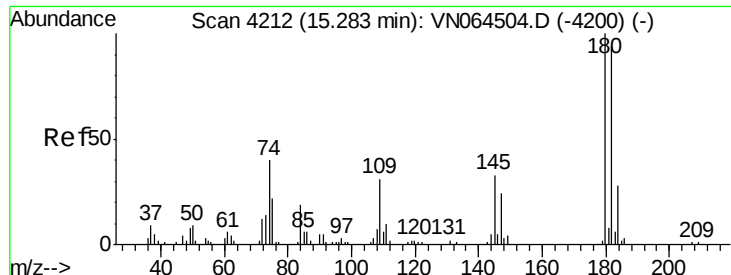
Tot Ion: 75 Resp: 64920
Ion Ratio Lower Upper
75 100
53 0.0 50.3 150.9#
89 0.0 23.3 69.8#



#90
Hexachlorobutadiene
Concen: 0.623 ug/l
RT: 14.98 min Scan# 4119
Delta R.T. -0.00 min
Lab File: VN064512.D
Acq: 9 Nov 2020 17:34

Tgt Ion: 225 Resp: 971
Ion Ratio Lower Upper
225 100
223 58.1 0.0 125.4
227 83.2 0.0 122.0

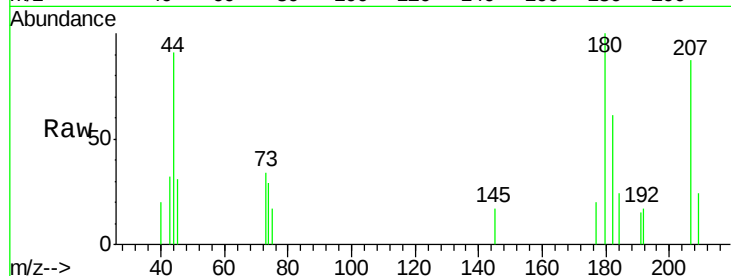




#92
 1,2,3-Trichlorobenzene
 Concen: 0.436 ug/l
 RT: 15.29 min Scan# 4213
 Delta R.T. 0.00 min
 Lab File: VN064512.D
 Acq: 9 Nov 2020 17:34

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ion	Ratio	Lower	Upper
180	180	100		
182	182	52.6	0.0	186.0
145	145	10.1	0.0	69.6



Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 145.00 (144.70 to 145.70): V

