

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN090120\
 Data File : VN063172.D
 Acq On : 1 Sep 2020 22:04
 Operator : JC/MD
 Sample : L3851-18
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

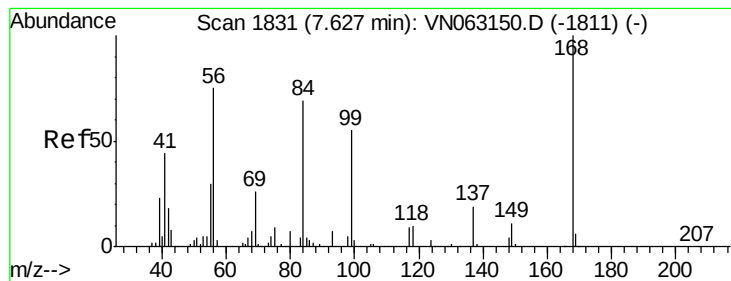
Quant Time: Sep 02 04:07:34 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N083120W.M
 Quant Title : SW846 8260
 QLast Update : Tue Sep 01 04:21:28 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	371948	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	721683	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	723447	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	291024	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.99	65	290255	47.74	ug/l	0.00
Spiked Amount			Recovery	=	95.48%	
35) Dibromofluoromethane	7.55	113	221151	47.77	ug/l	0.00
Spiked Amount			Recovery	=	95.54%	
50) Toluene-d8	10.06	98	912872	51.23	ug/l	0.00
Spiked Amount			Recovery	=	102.46%	
62) 4-Bromofluorobenzene	12.38	95	330038	52.94	ug/l	0.00
Spiked Amount			Recovery	=	105.88%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.03	50	2917	0.547	ug/l	98
5) Bromomethane	2.55	94	2234	0.450	ug/l #	69
7) Trichlorofluoromethane	2.88	101	63	Below Cal	#	19
8) Diethyl Ether	3.37	74	1420	0.504	ug/l	77
11) Tert butyl alcohol	4.73	59	316	0.423	ug/l #	21
13) Acrolein	3.57	56	156	16.284	ug/l #	73
15) Acrylonitrile	4.93	53	219	2.508	ug/l #	4
16) Acetone	3.78	43	33154	19.181	ug/l	92
18) Methyl Acetate	4.28	43	2877	0.649	ug/l #	41
20) Methylene Chloride	4.51	84	17469	3.133	ug/l #	87
25) 2-Butanone	6.79	43	4377	1.635	ug/l #	77
29) Tetrahydrofuran	7.17	42	598	0.323	ug/l #	8
31) Cyclohexane	7.62	56	11421	Below Cal	#	46
36) 1,1-Dichloropropene	7.63	75	34627	4.991	ug/l #	51
37) Ethyl Acetate	6.89	43	487	0.454	ug/l #	1
38) Carbon Tetrachloride	7.63	117	40115	5.701	ug/l #	16
43) Isopropyl Acetate	8.13	43	113799	10.058	ug/l #	90
48) Methyl methacrylate	9.14	41	4950	0.970	ug/l #	14
49) 1,4-Dioxane	9.17	88	245	3.105	ug/l #	1
51) 4-Methyl-2-Pentanone	9.96	43	16356	2.660	ug/l	99
54) cis-1,3-Dichloropropene	9.87	75	52227	5.932	ug/l #	67
57) 1,3-Dichloropropane	10.73	76	5471	0.631	ug/l #	47
59) 2-Hexanone	10.74	43	79596	18.420	ug/l #	54
74) N-amyl acetate	12.00	43	4106	0.444	ug/l #	54
76) 1,2,3-Trichloropropane	12.38	75	186108	32.548	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	186108	78.667	ug/l #	10

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. 0.00 min

Lab File: VN063172.D

Acq: 1 Sep 2020 22:04

Instrument :

MSVOA_N

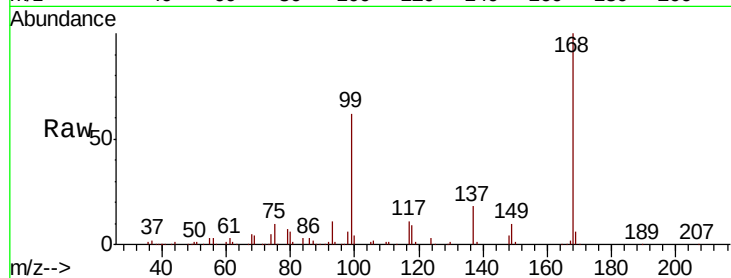
ClientSampled :

Tot Ion:168 Resp: 371948

Ion Ratio Lower Upper

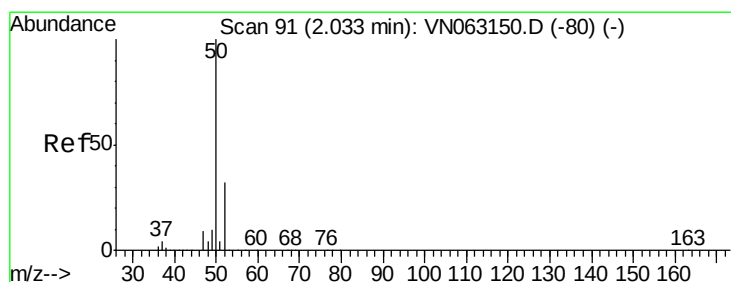
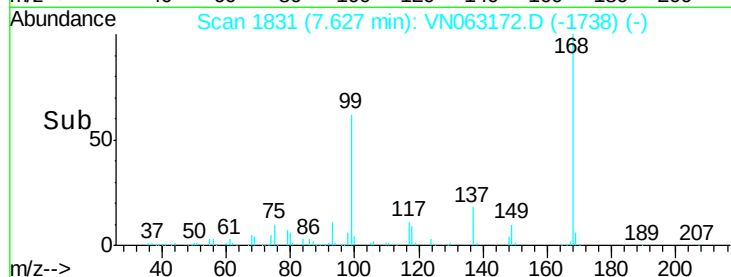
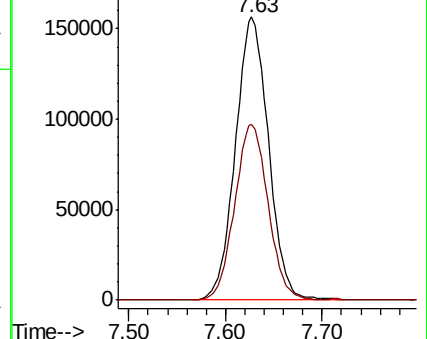
168 100

99 62.3 54.2 81.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#3

Chloromethane

Concen: 0.547 ug/l

RT: 2.03 min Scan# 89

Delta R.T. -0.01 min

Lab File: VN063172.D

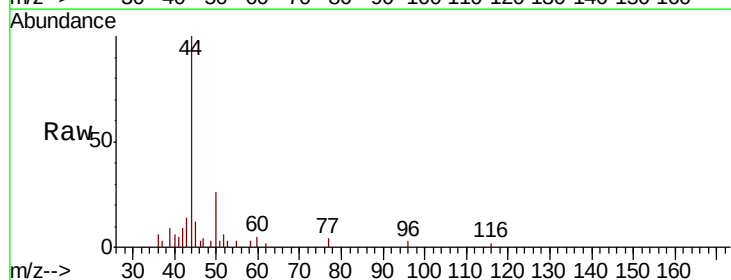
Acq: 1 Sep 2020 22:04

Tgt Ion: 50 Resp: 2917

Ion Ratio Lower Upper

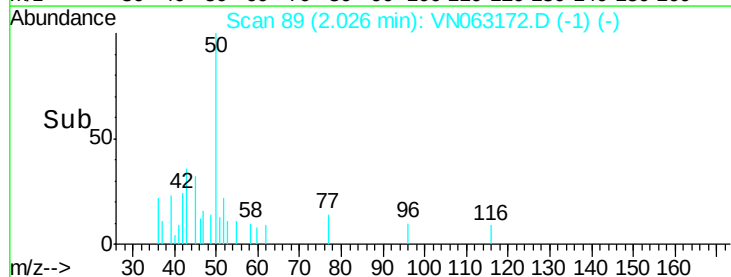
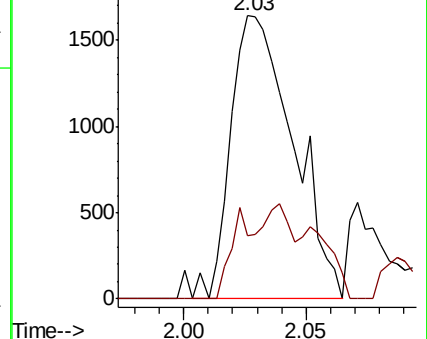
50 100

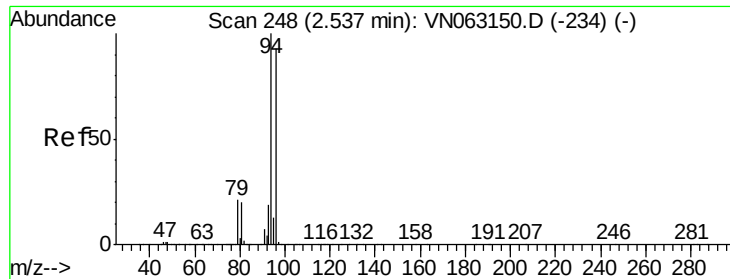
52 33.3 25.8 38.6



Abundance Ion 49.90 (49.60 to 50.60): VNO

Ion 51.90 (51.60 to 52.60): VNO





#5

Bromomethane

Concen: 0.450 ug/l

RT: 2.55 min Scan# 252

Delta R.T. 0.01 min

Lab File: VN063172.D

Acq: 1 Sep 2020 22:04

Instrument :

MSVOA_N

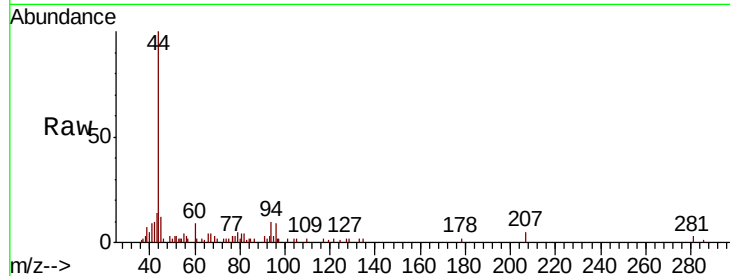
ClientSampled :

Tot Ion: 94 Resp: 2234

Ion Ratio Lower Upper

94 100

96 63.3 74.4 111.6#

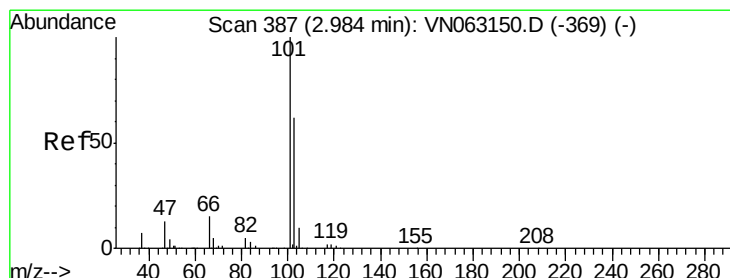
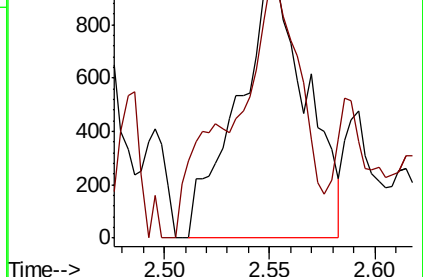
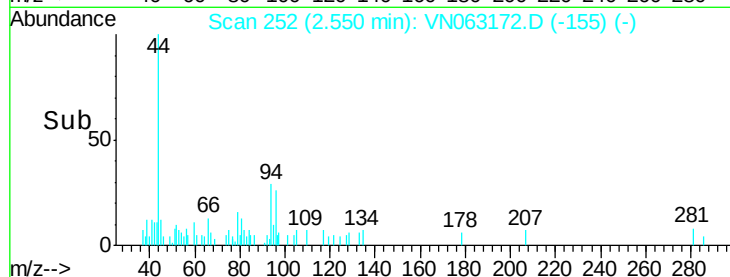


Abundance Ion 93.90 (93.60 to 94.60): VN063150.D (-234) (-)

Ion 95.90 (95.60 to 96.60): VN063150.D (-234) (-)

2.55

Time-->



#7

Trichlorofluoromethane

Concen: Below Cal

RT: 2.88 min Scan# 356

Delta R.T. -0.10 min

Lab File: VN063172.D

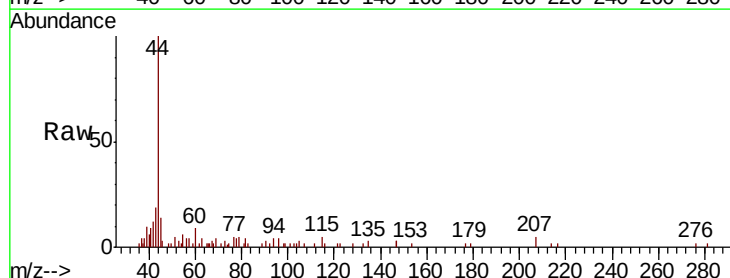
Acq: 1 Sep 2020 22:04

Tgt Ion: 101 Resp: 63

Ion Ratio Lower Upper

101 100

103 0.0 49.7 74.5#

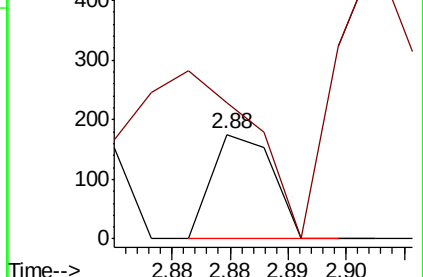
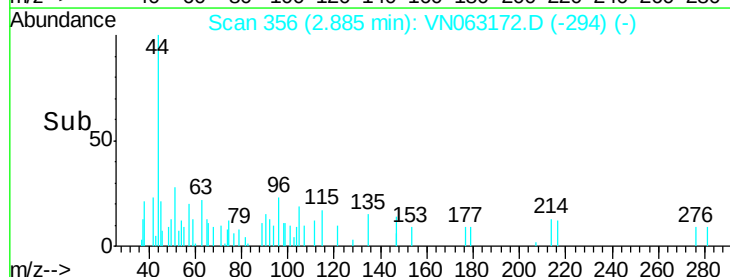


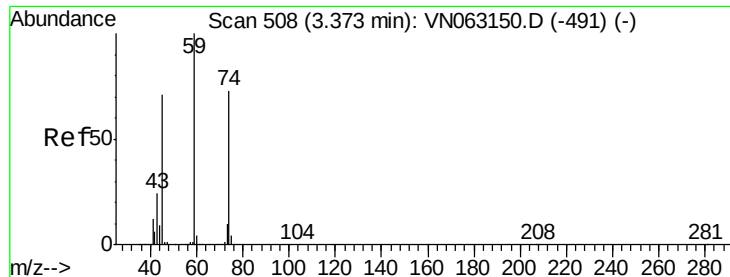
Abundance Ion 100.90 (100.60 to 101.60): VN063150.D (-369) (-)

Ion 102.80 (102.50 to 103.50): VN063150.D (-369) (-)

2.88

Time-->

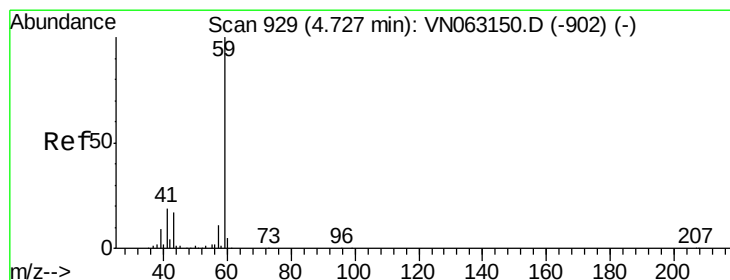
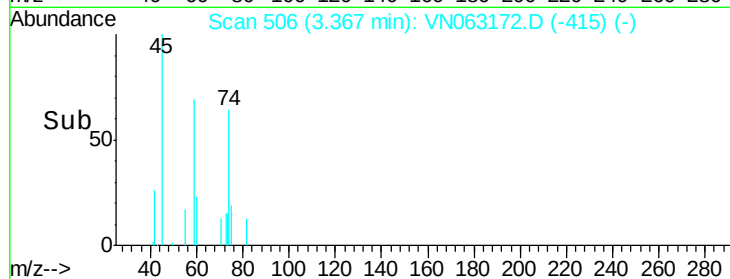
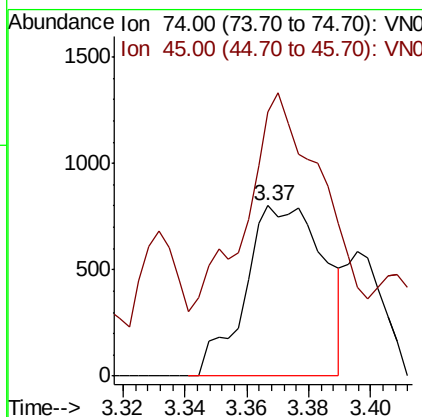
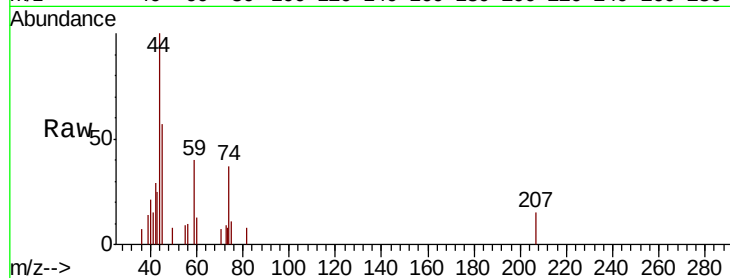




#8
Diethyl Ether
Concen: 0.504 ug/l
RT: 3.37 min Scan# 506
Delta R.T. -0.01 min
Lab File: VN063172.D
Acq: 1 Sep 2020 22:04

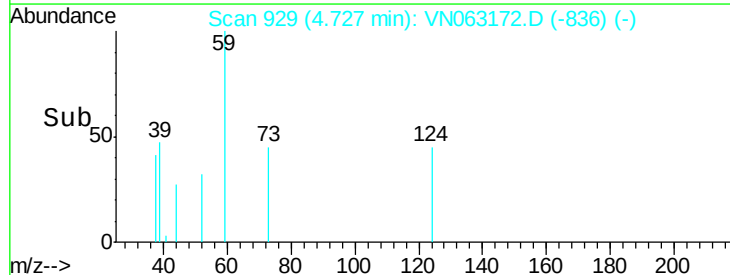
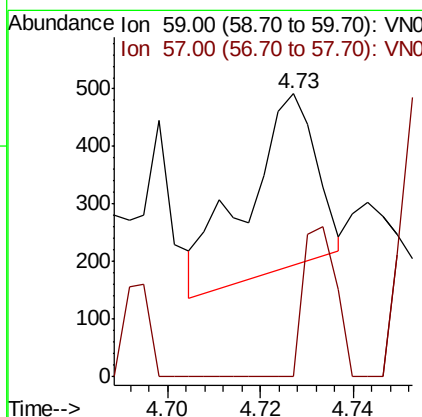
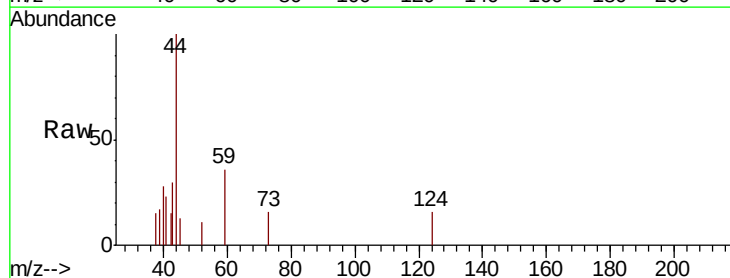
Instrument :
MSVOA_N
ClientSampled :

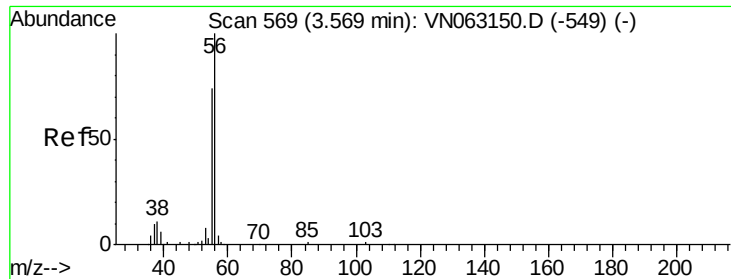
Tot Ion: 74 Resp: 1420
Ion Ratio Lower Upper
74 100
45 122.3 49.5 148.5



#11
Tert butyl alcohol
Concen: 0.423 ug/l
RT: 4.73 min Scan# 929
Delta R.T. 0.00 min
Lab File: VN063172.D
Acq: 1 Sep 2020 22:04

Tgt Ion: 59 Resp: 316
Ion Ratio Lower Upper
59 100
57 40.2 8.4 12.6#





#13

Acrolein

Concen: 16.284 ug/l

RT: 3.57 min Scan# 569

Delta R.T. 0.00 min

Lab File: VN063172.D

Acq: 1 Sep 2020 22:04

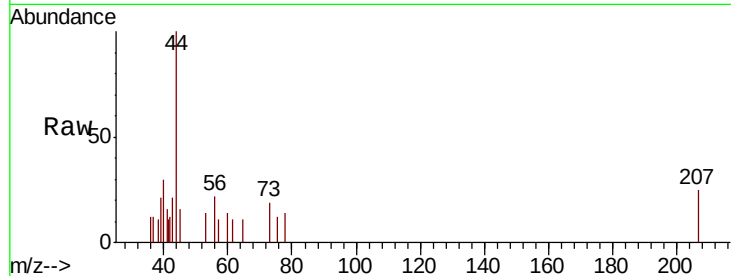
Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 56 Resp: 156

Ion Ratio Lower Upper

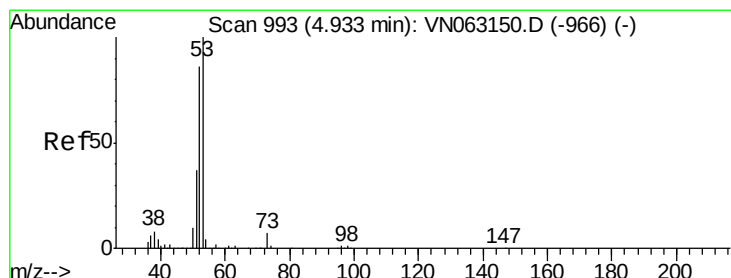
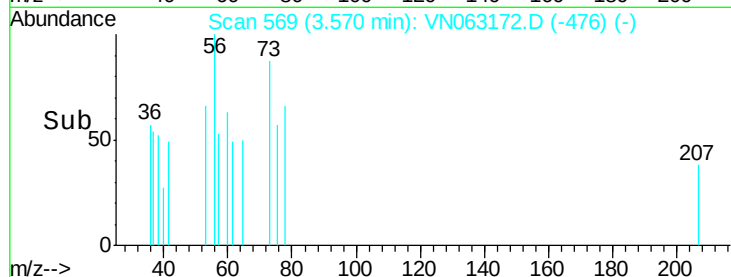
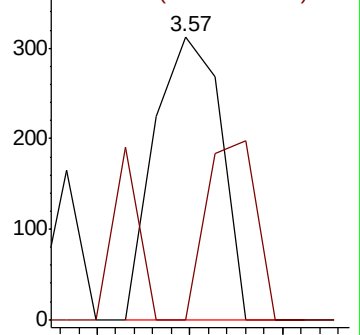
56 100

55 47.4 55.4 83.0#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#15

Acrylonitrile

Concen: 2.508 ug/l

RT: 4.93 min Scan# 992

Delta R.T. -0.00 min

Lab File: VN063172.D

Acq: 1 Sep 2020 22:04

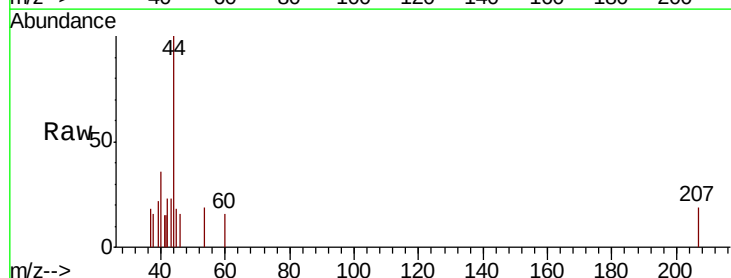
Tgt Ion: 53 Resp: 219

Ion Ratio Lower Upper

53 100

52 0.0 67.2 100.8#

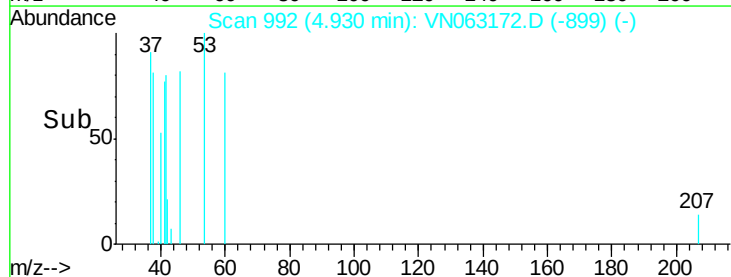
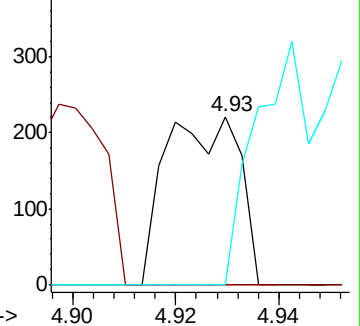
51 100.0 30.2 45.4#

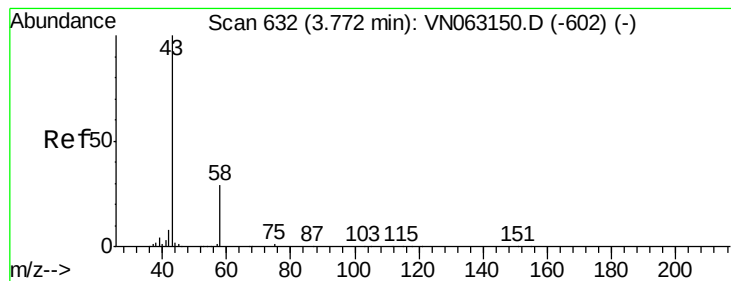


Abundance Ion 53.00 (52.70 to 53.70): VN0

Ion 52.00 (51.70 to 52.70): VN0

Ion 51.00 (50.70 to 51.70): VN0





#16

Acetone

Concen: 19.181 ug/l

RT: 3.78 min Scan# 635

Delta R.T. 0.01 min

Lab File: VN063172.D

Acq: 1 Sep 2020 22:04

Instrument :

MSVOA_N

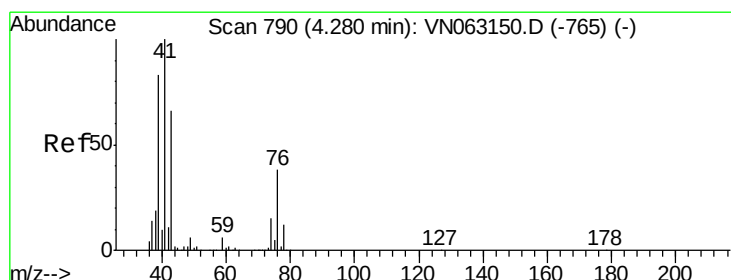
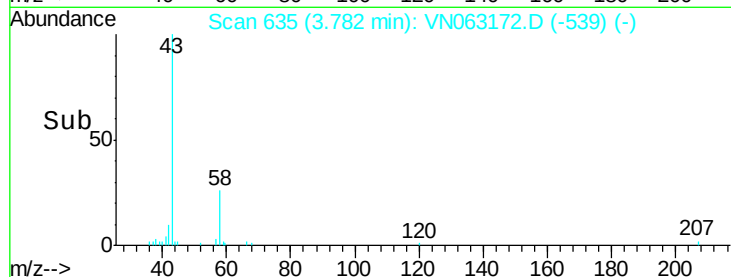
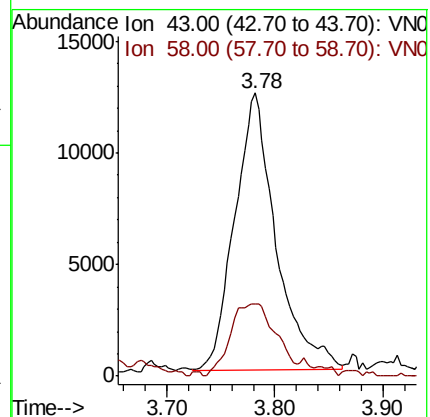
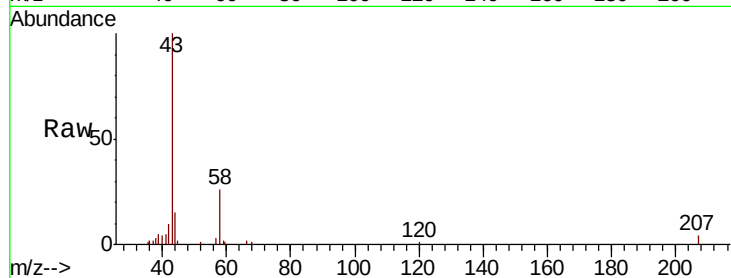
ClientSampled :

Tot Ion: 43 Resp: 33154

Ion Ratio Lower Upper

43 100

58 24.7 23.1 34.7



#18

Methyl Acetate

Concen: 0.649 ug/l

RT: 4.28 min Scan# 789

Delta R.T. -0.00 min

Lab File: VN063172.D

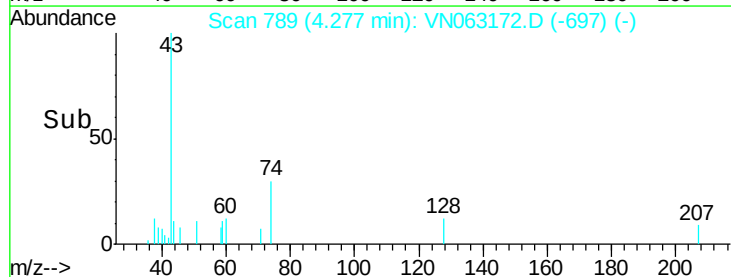
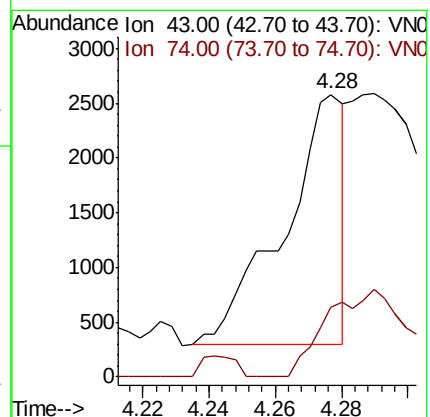
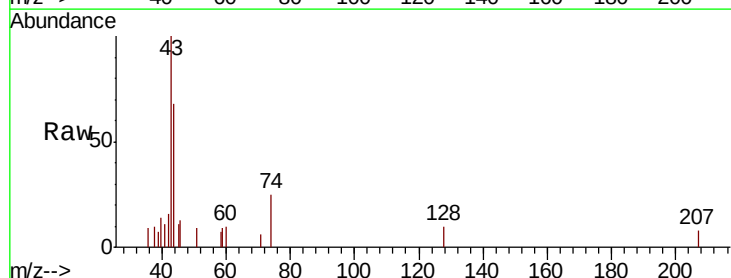
Acq: 1 Sep 2020 22:04

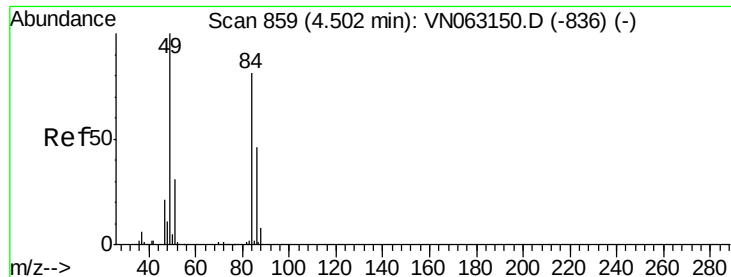
Tgt Ion: 43 Resp: 2877

Ion Ratio Lower Upper

43 100

74 52.8 19.0 28.6#

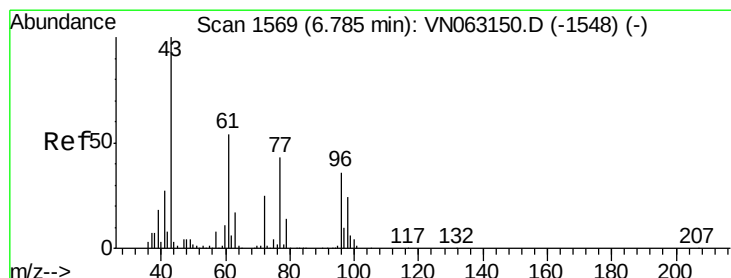
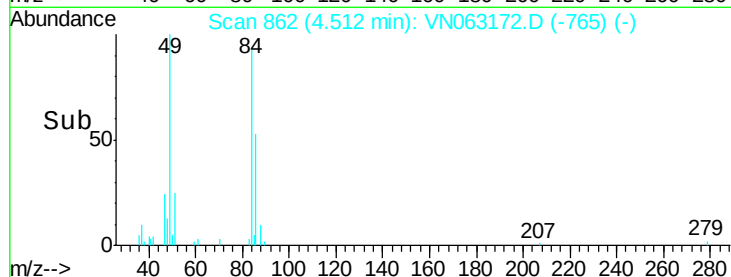
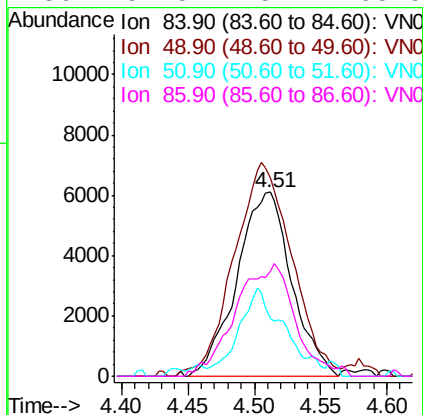
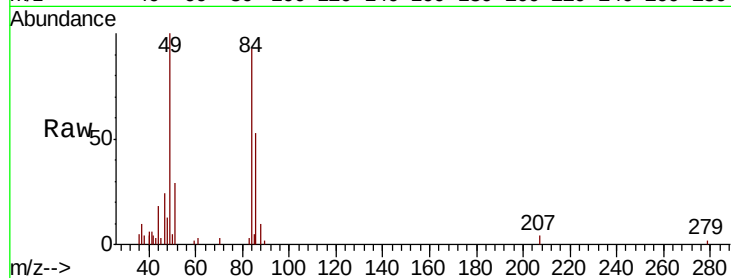




#20
Methvlene Chloride
Concen: 3.133 ug/l
RT: 4.51 min Scan# 862
Delta R.T. 0.01 min
Lab File: VN063172.D
Acq: 1 Sep 2020 22:04

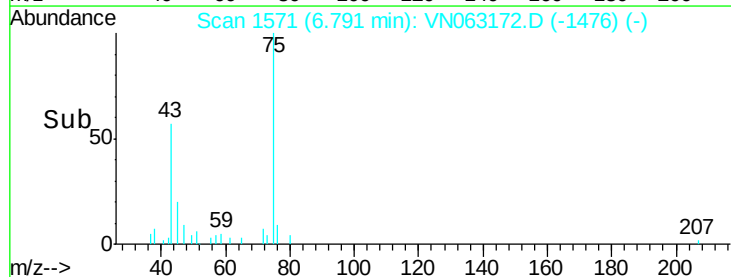
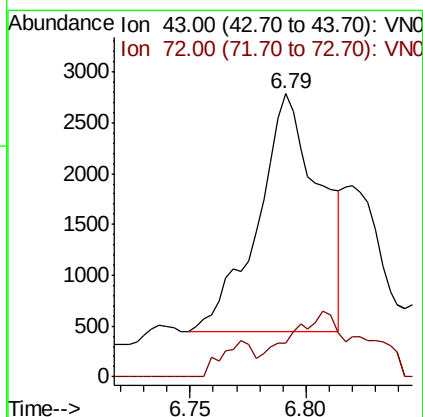
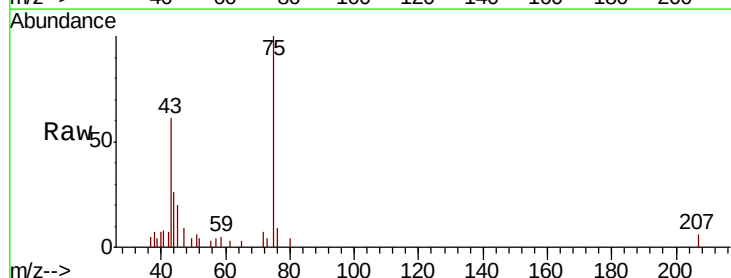
Instrument :
MSVOA_N
ClientSampled :

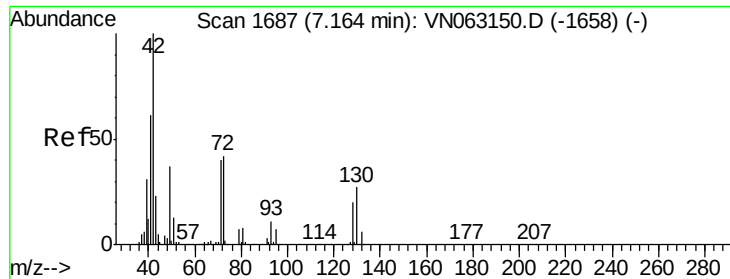
Tot Ion: 84 Resp: 17469
Ion Ratio Lower Upper
84 100
49 103.7 98.4 147.6
51 28.1 30.4 45.6#
86 54.5 45.7 68.5



#25
2-Butanone
Concen: 1.635 ug/l
RT: 6.79 min Scan# 1571
Delta R.T. 0.01 min
Lab File: VN063172.D
Acq: 1 Sep 2020 22:04

Tgt Ion: 43 Resp: 4377
Ion Ratio Lower Upper
43 100
72 13.9 20.2 30.4#

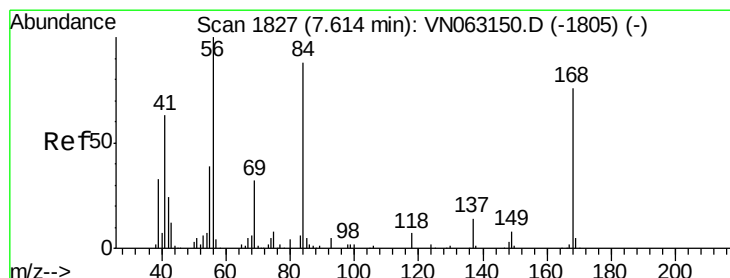
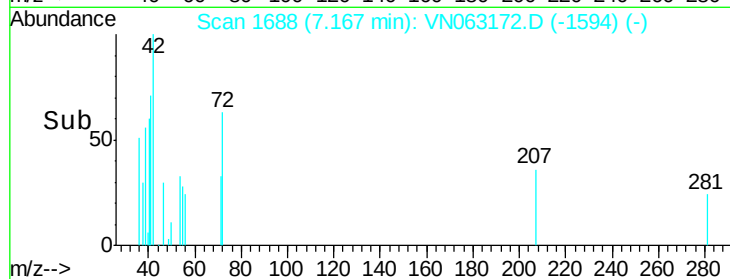
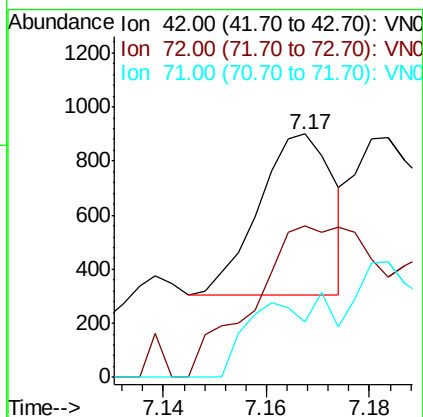
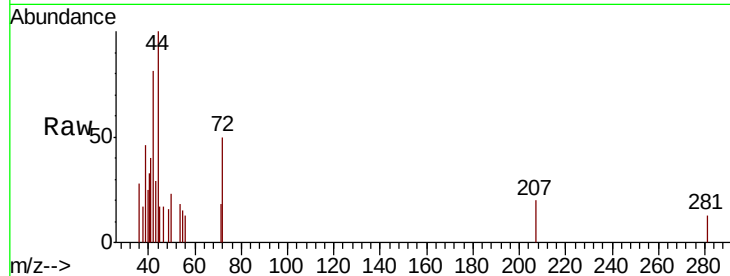




#29
Tetrahydrofuran
Concen: 0.323 ug/l
RT: 7.17 min Scan# 1688
Delta R.T. 0.00 min
Lab File: VN063172.D
Acq: 1 Sep 2020 22:04

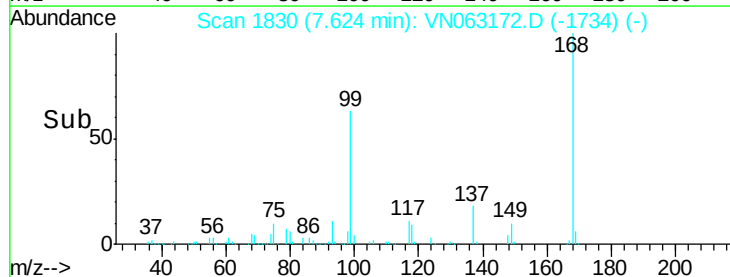
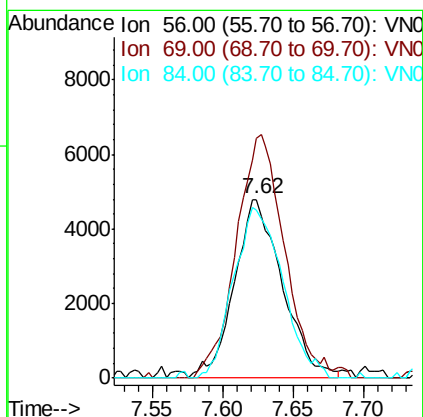
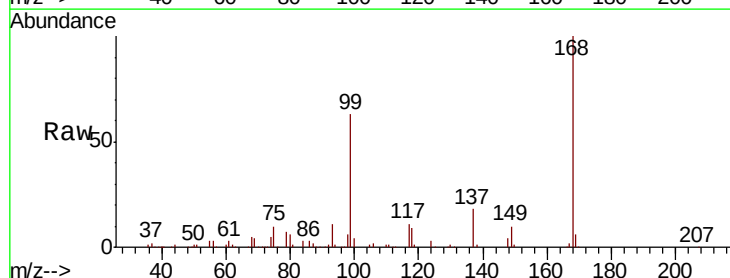
Instrument :
MSVOA_N
ClientSampled :

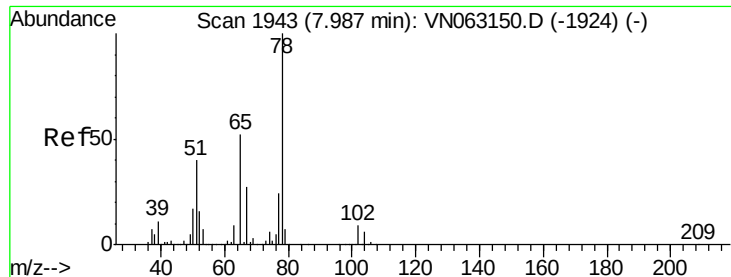
Tot Ion: 42 Resp: 598
Ion Ratio Lower Upper
42 100
72 152.5 33.9 50.9#
71 36.5 31.9 47.9



#31
Cyclohexane
Concen: Below Cal
RT: 7.62 min Scan# 1830
Delta R.T. 0.01 min
Lab File: VN063172.D
Acq: 1 Sep 2020 22:04

Tgt Ion: 56 Resp: 11421
Ion Ratio Lower Upper
56 100
69 133.9 25.4 38.0#
84 94.2 70.2 105.4

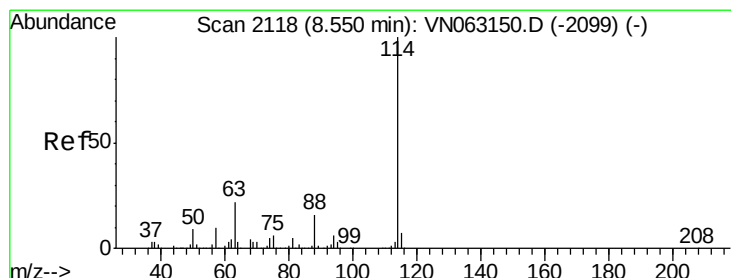
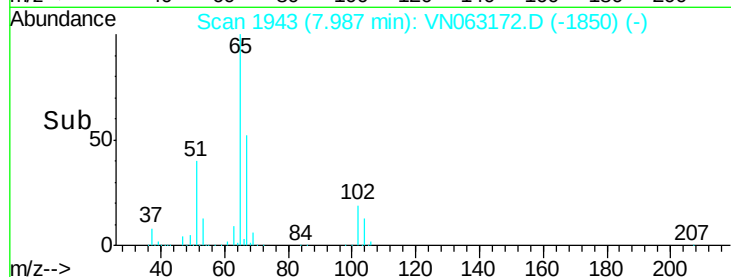
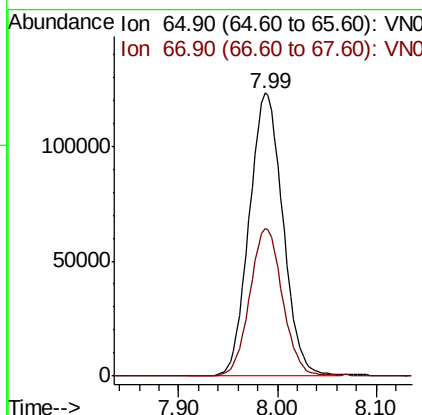
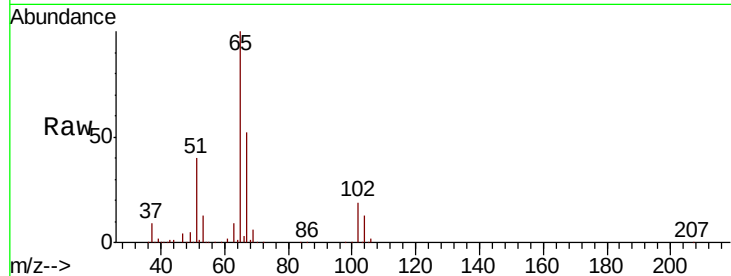




#33
 1,2-Dichloroethane-d4
 Concen: 47.737 ug/l
 RT: 7.99 min Scan# 1943
 Delta R.T. 0.00 min
 Lab File: VN063172.D
 Acq: 1 Sep 2020 22:04

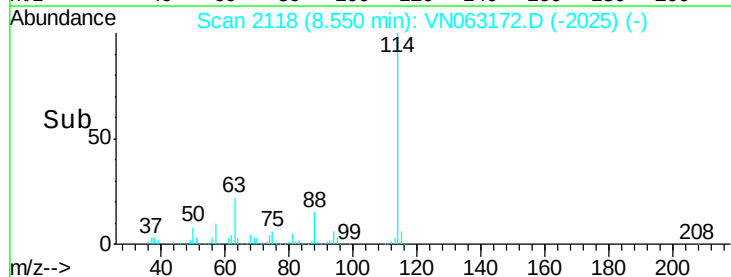
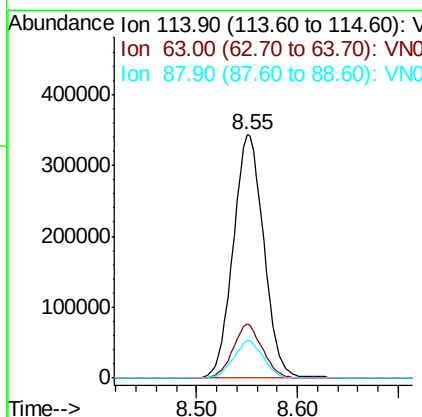
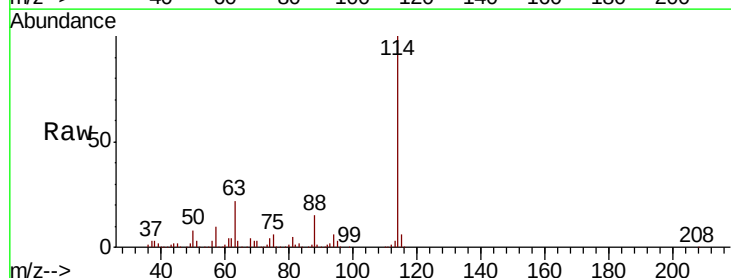
Instrument :
 MSVOA_N
 ClientSampled :

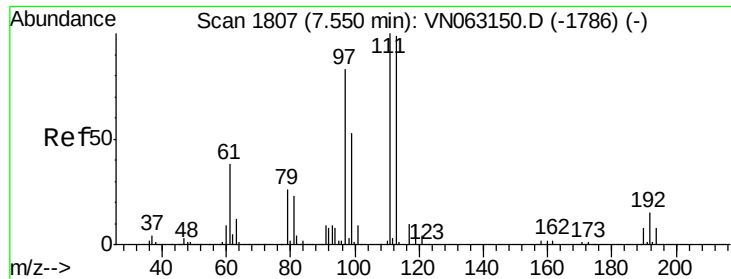
Tot Ion: 65 Resp: 290255
 Ion Ratio Lower Upper
 65 100
 67 50.7 0.0 104.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2118
 Delta R.T. 0.00 min
 Lab File: VN063172.D
 Acq: 1 Sep 2020 22:04

Tgt Ion: 114 Resp: 721683
 Ion Ratio Lower Upper
 114 100
 63 22.4 0.0 43.0
 88 15.4 0.0 31.6

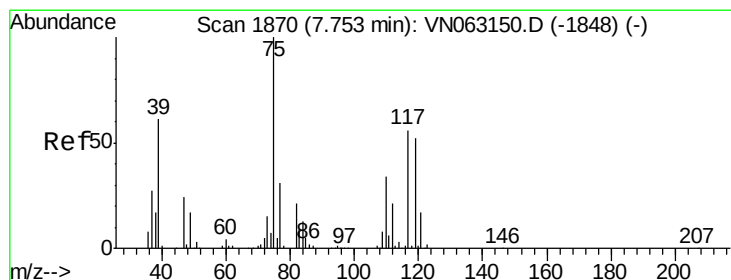
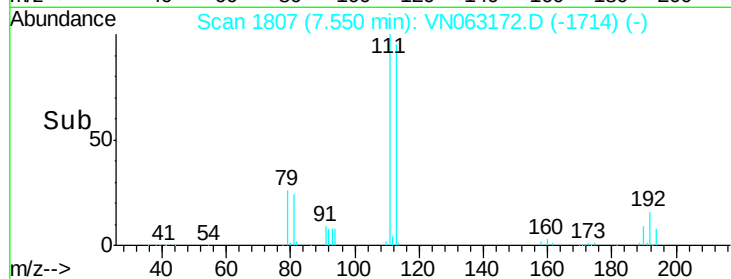
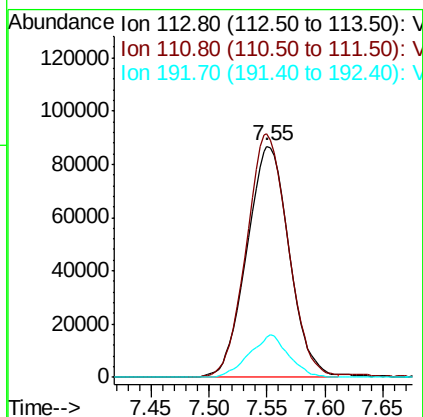
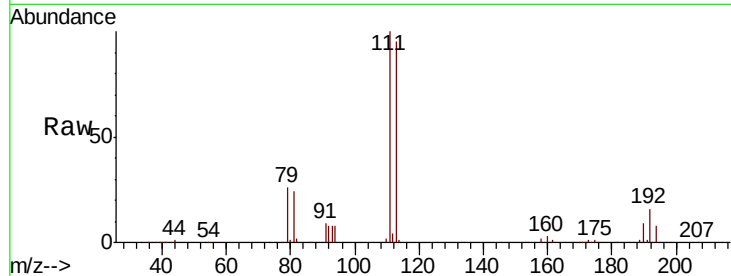




#35
 Dibromofluoromethane
 Concen: 47.765 ug/l
 RT: 7.55 min Scan# 1807
 Delta R.T. 0.00 min
 Lab File: VN063172.D
 Acq: 1 Sep 2020 22:04

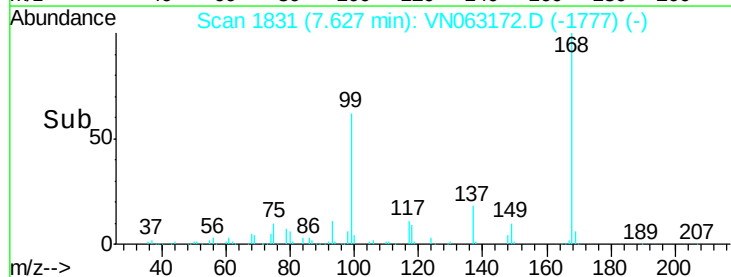
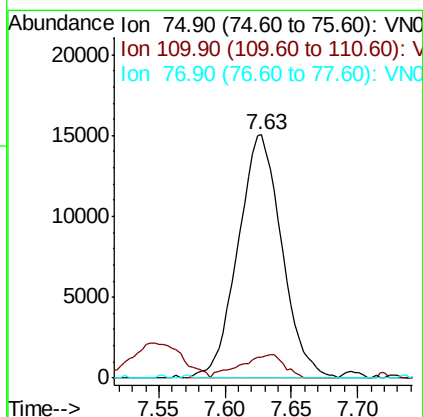
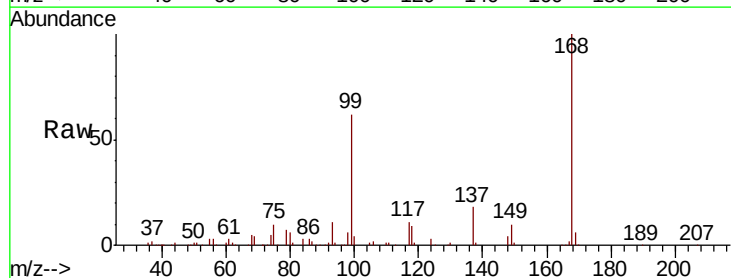
Instrument :
 MSVOA_N
 ClientSampleId :

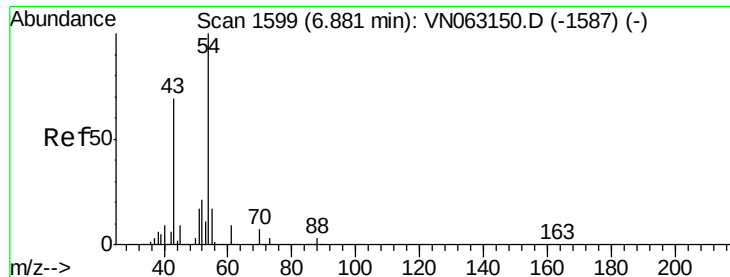
Tot Ion	Ratio	Lower	Upper
113	100		
111	104.5	80.7	121.1
192	17.0	12.6	19.0



#36
 1,1-Dichloropropene
 Concen: 4.991 ug/l
 RT: 7.63 min Scan# 1831
 Delta R.T. -0.13 min
 Lab File: VN063172.D
 Acq: 1 Sep 2020 22:04

Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.6	16.6	49.8#
77	0.0	25.4	38.2#





#37

Ethyl Acetate

Concen: 0.454 ug/l

RT: 6.89 min Scan# 1601

Delta R.T. 0.01 min

Lab File: VN063172.D

Acq: 1 Sep 2020 22:04

Instrument :

MSVOA_N

ClientSampleId :

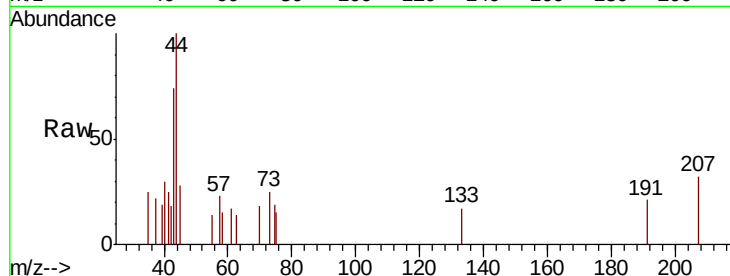
Tot Ion: 43 Resp: 487

Ion Ratio Lower Upper

43 100

61 58.1 10.2 15.4#

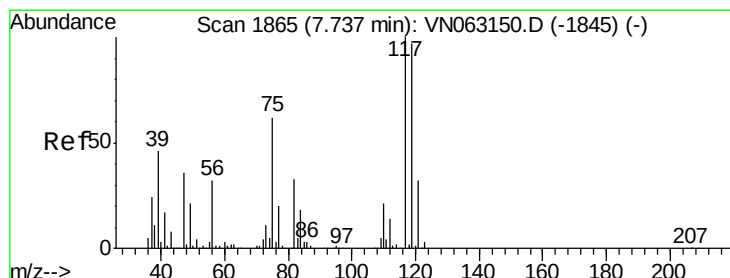
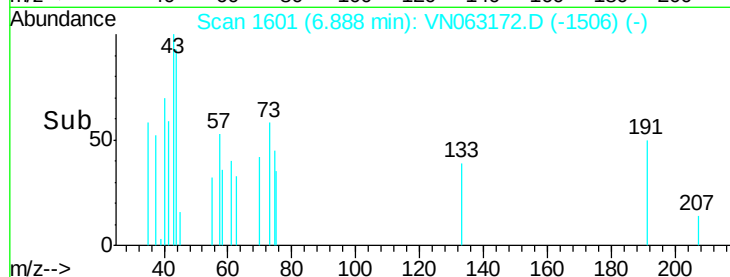
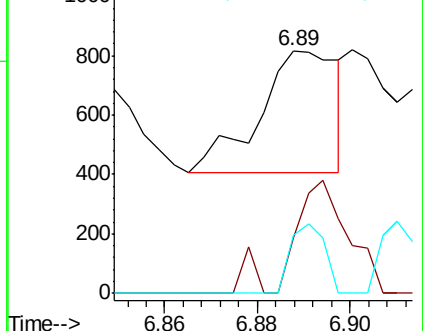
70 24.6 3.0 4.6#



Abundance Ion 43.00 (42.70 to 43.70): VN063172.D (-1506) (-)

Ion 60.90 (60.60 to 61.60): VN063172.D (-1506) (-)

Ion 70.00 (69.70 to 70.70): VN063172.D (-1506) (-)



#38

Carbon Tetrachloride

Concen: 5.701 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. -0.11 min

Lab File: VN063172.D

Acq: 1 Sep 2020 22:04

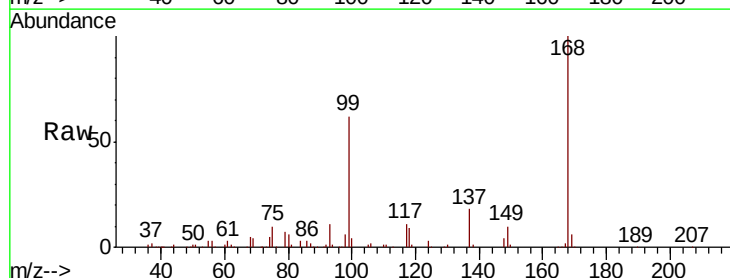
Tgt Ion: 117 Resp: 40115

Ion Ratio Lower Upper

117 100

119 5.2 77.2 115.8#

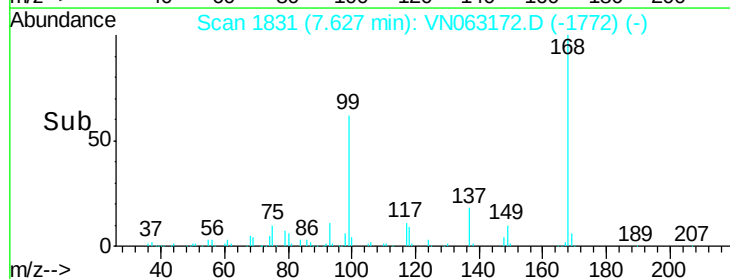
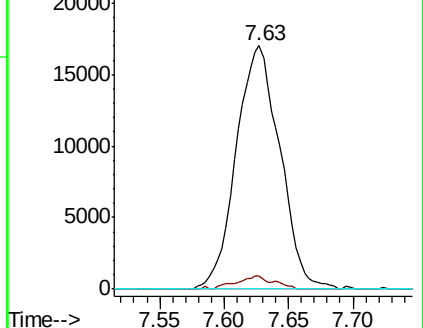
121 0.0 25.6 38.4#

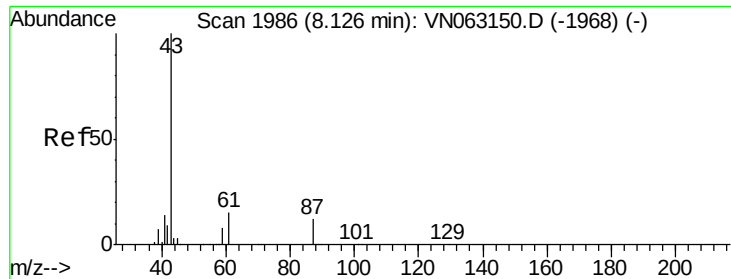


Abundance Ion 116.80 (116.50 to 117.50): VN063172.D (-1772) (-)

Ion 118.80 (118.50 to 119.50): VN063172.D (-1772) (-)

Ion 120.80 (120.50 to 121.50): VN063172.D (-1772) (-)

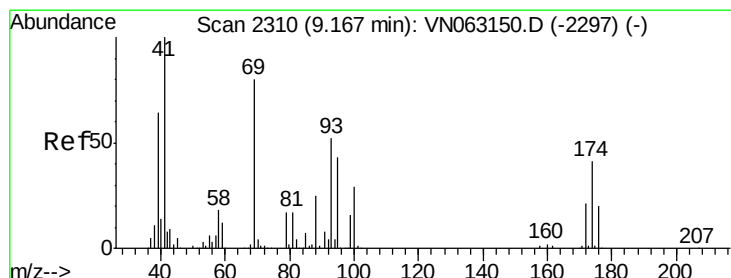
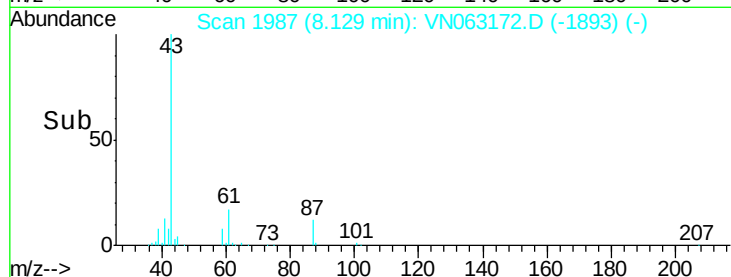
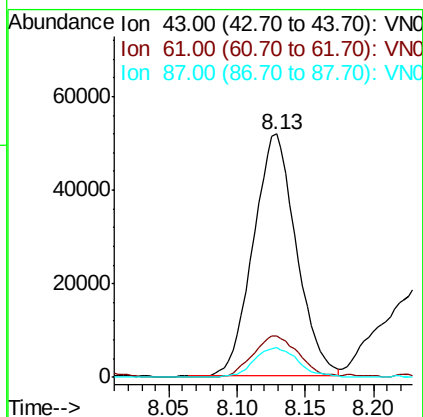
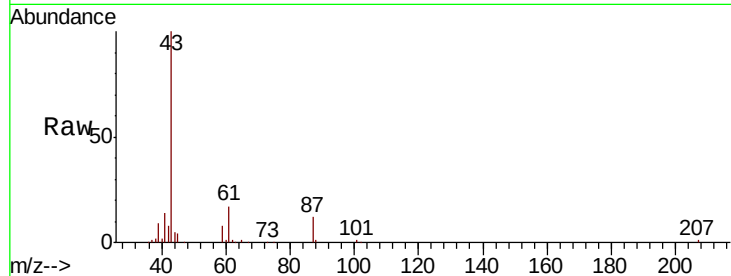




#43
Isopropyl Acetate
Concen: 10.058 ug/l
RT: 8.13 min Scan# 1987
Delta R.T. 0.00 min
Lab File: VN063172.D
Acq: 1 Sep 2020 22:04

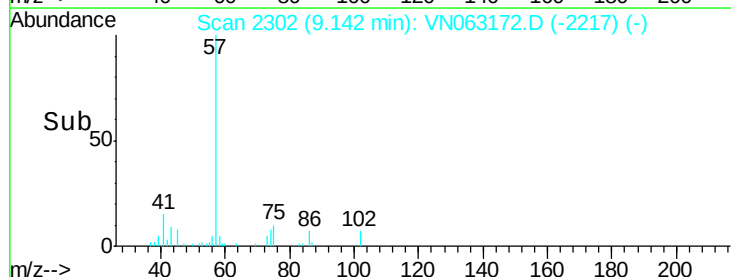
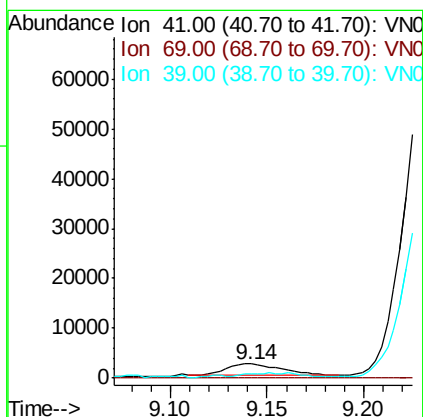
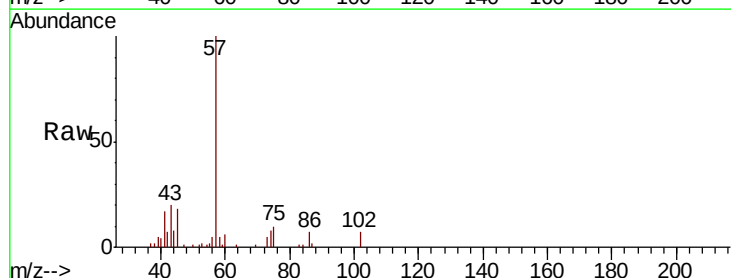
Instrument :
MSVOA_N
ClientSampleId :

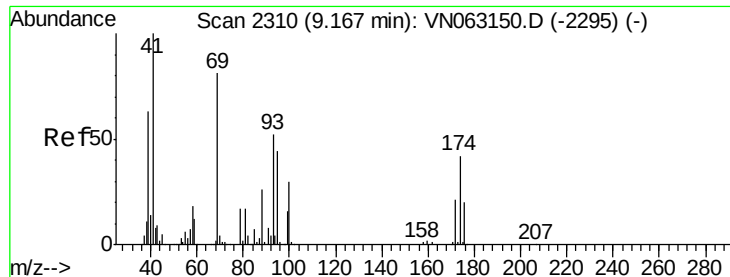
Tot Ion: 43 Resp: 113799
Ion Ratio Lower Upper
43 100
61 18.3 20.2 30.4#
87 12.5 9.8 14.6



#48
Methyl methacrylate
Concen: 0.970 ug/l
RT: 9.14 min Scan# 2302
Delta R.T. -0.03 min
Lab File: VN063172.D
Acq: 1 Sep 2020 22:04

Tgt Ion: 41 Resp: 4950
Ion Ratio Lower Upper
41 100
69 2.9 65.9 98.9#
39 0.0 52.0 78.0#





#49

1,4-Dioxane

Concen: 3.105 ug/l

RT: 9.17 min Scan# 2311

Delta R.T. 0.00 min

Lab File: VN063172.D

Acq: 1 Sep 2020 22:04

Instrument :

MSVOA_N

ClientSampleId :

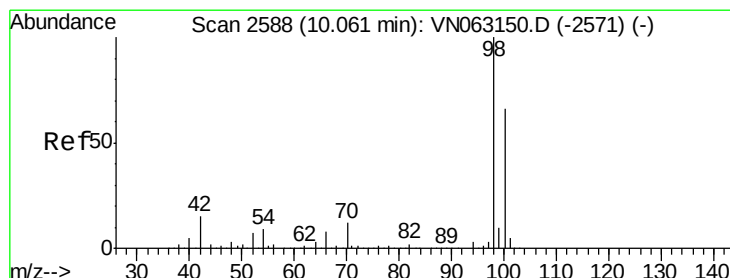
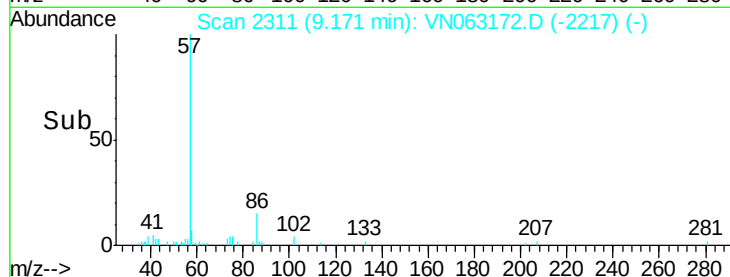
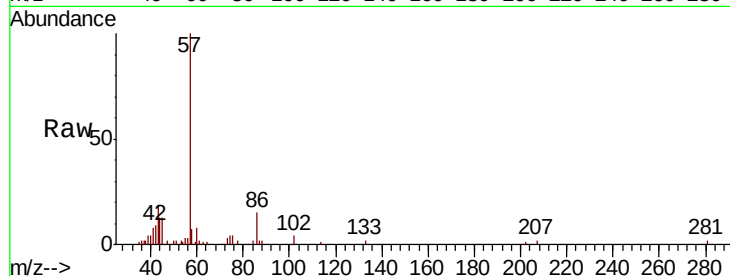
Tot Ion: 88 Resp: 245

Ion Ratio Lower Upper

88 100

43 0.0 28.6 42.8#

58 1019.6 53.2 79.8#



#50

Toluene-d8

Concen: 51.225 ug/l

RT: 10.06 min Scan# 2588

Delta R.T. 0.00 min

Lab File: VN063172.D

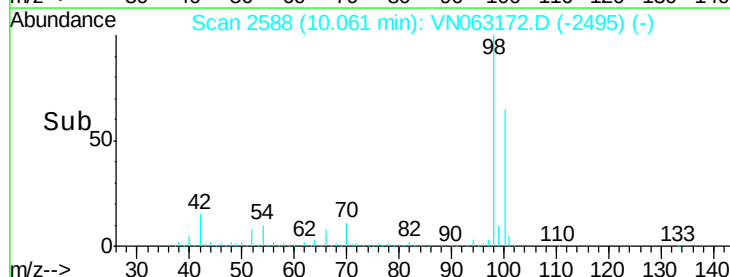
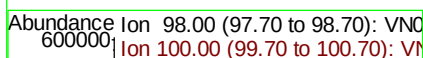
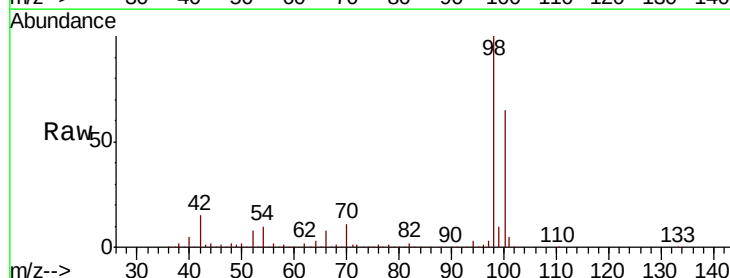
Acq: 1 Sep 2020 22:04

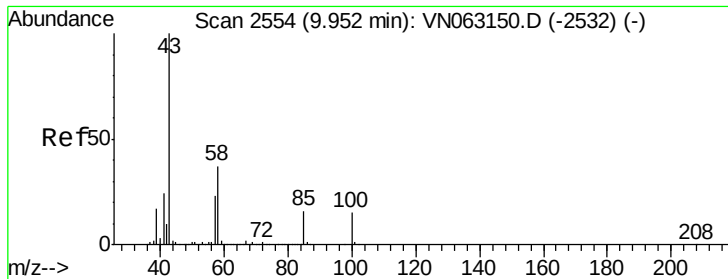
Tgt Ion: 98 Resp: 912872

Ion Ratio Lower Upper

98 100

100 64.6 52.0 78.0

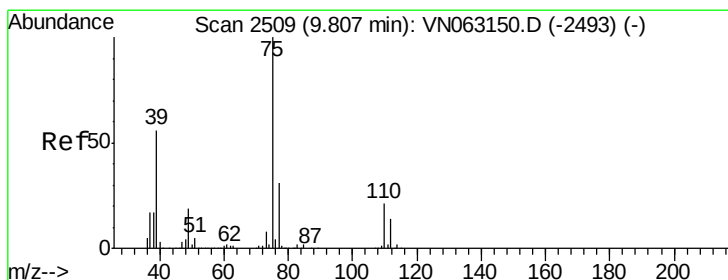
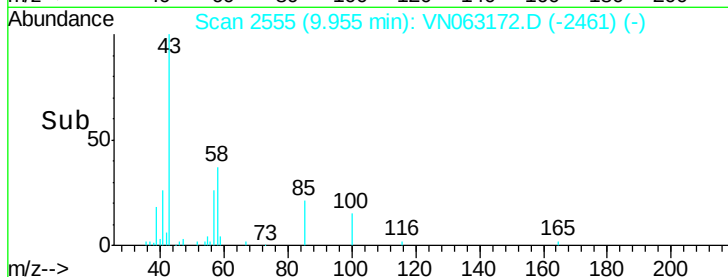
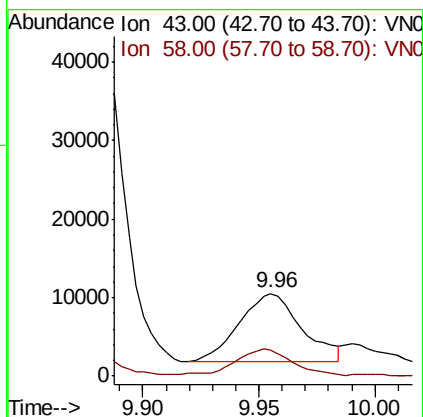
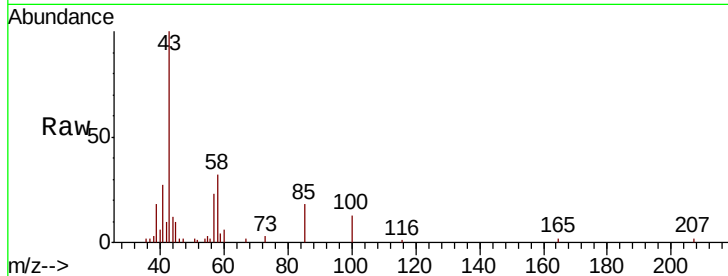




#51
 4-Methyl-2-Pentanone
 Concen: 2.660 ug/l
 RT: 9.96 min Scan# 2555
 Delta R.T. 0.00 min
 Lab File: VN063172.D
 Acq: 1 Sep 2020 22:04

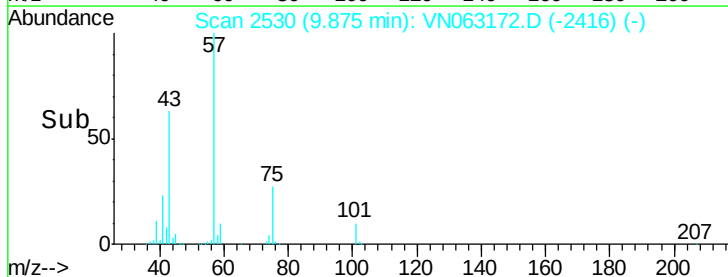
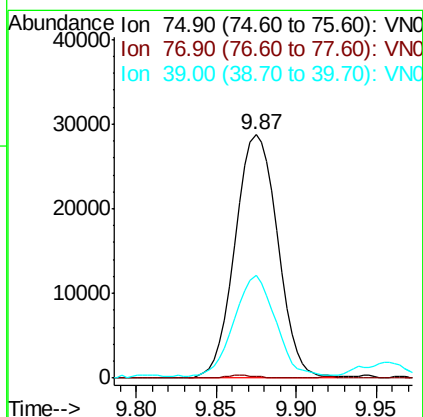
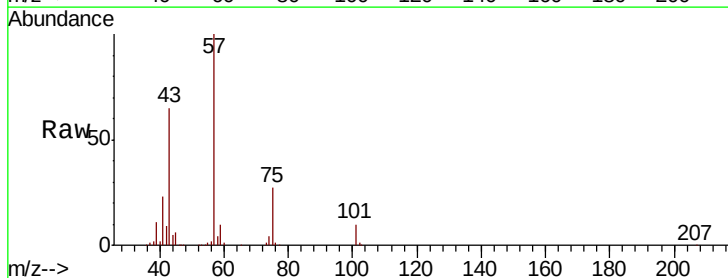
Instrument :
 MSVOA_N
 ClientSampled :

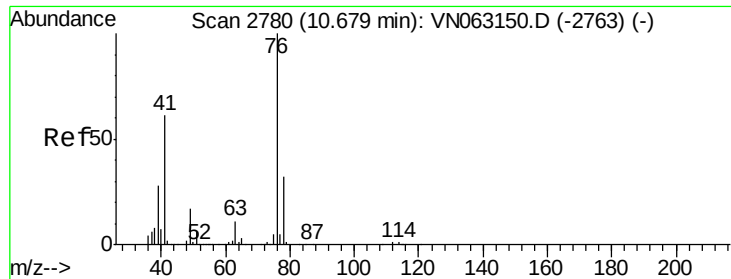
Tot Ion: 43 Resp: 16356
 Ion Ratio Lower Upper
 43 100
 58 37.2 29.2 43.8



#54
 cis-1,3-Dichloropropene
 Concen: 5.932 ug/l
 RT: 9.87 min Scan# 2530
 Delta R.T. 0.07 min
 Lab File: VN063172.D
 Acq: 1 Sep 2020 22:04

Tgt Ion: 75 Resp: 52227
 Ion Ratio Lower Upper
 75 100
 77 0.9 24.8 37.2#
 39 41.1 45.0 67.6#

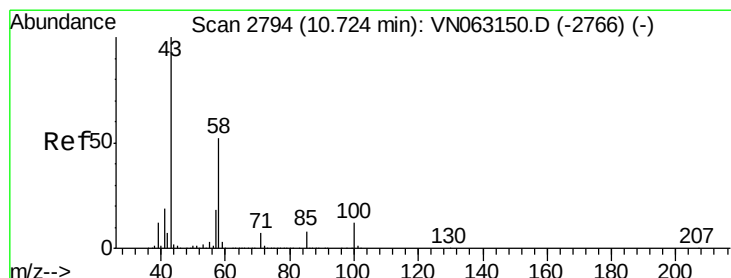
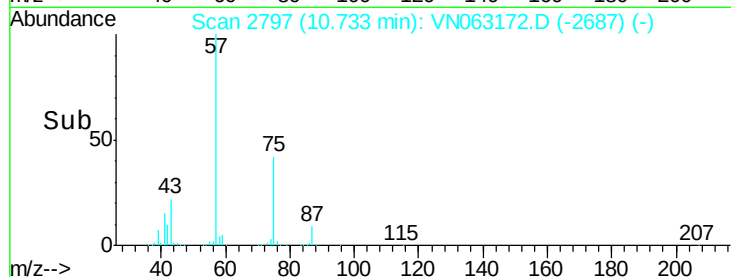
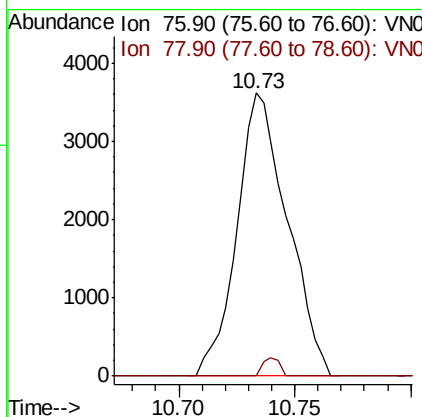
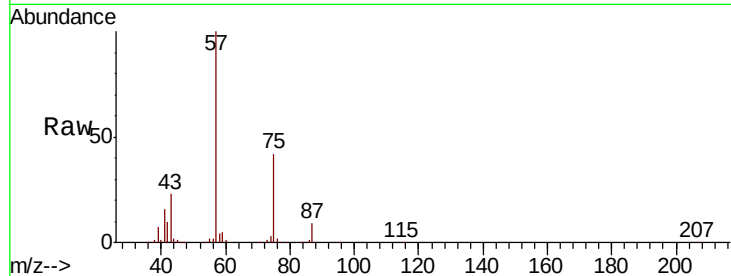




#57
 1,3-Dichloropropane
 Concen: 0.631 ug/l
 RT: 10.73 min Scan# 2797
 Delta R.T. 0.05 min
 Lab File: VN063172.D
 Acq: 1 Sep 2020 22:04

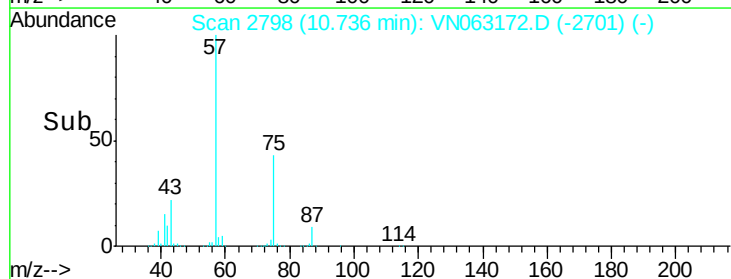
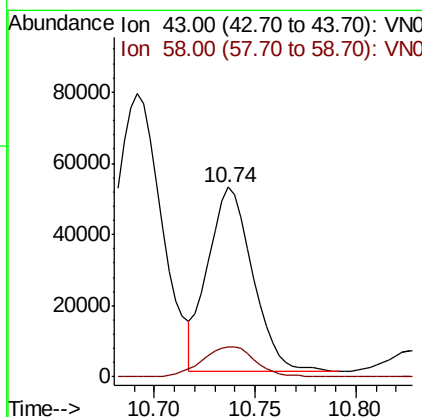
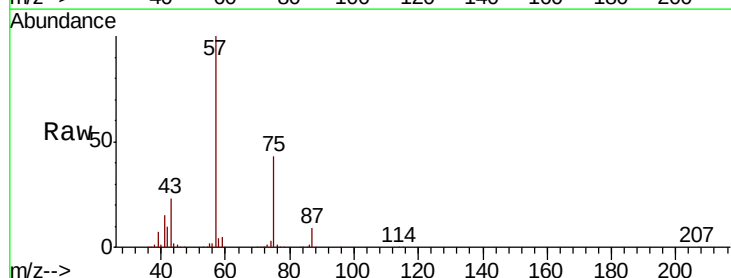
Instrument :
 MSVOA_N
 ClientSampled :

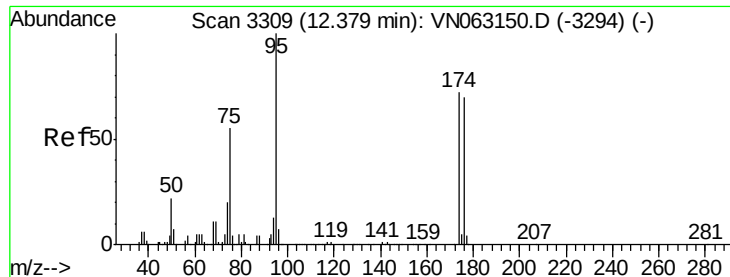
Tot Ion: 76 Resp: 5471
 Ion Ratio Lower Upper
 76 100
 78 2.2 25.5 38.3#



#59
 2-Hexanone
 Concen: 18.420 ug/l
 RT: 10.74 min Scan# 2798
 Delta R.T. 0.01 min
 Lab File: VN063172.D
 Acq: 1 Sep 2020 22:04

Tgt Ion: 43 Resp: 79596
 Ion Ratio Lower Upper
 43 100
 58 19.8 25.9 77.8#





#62

4-Bromofluorobenzene

Concen: 52.943 ug/l

RT: 12.38 min Scan# 3309

Delta R.T. 0.00 min

Lab File: VN063172.D

Acq: 1 Sep 2020 22:04

Instrument :

MSVOA_N

ClientSampleId :

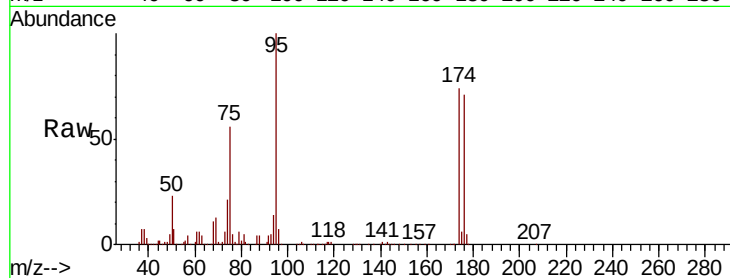
Tot Ion: 95 Resp: 330038

Ion Ratio Lower Upper

95 100

174 73.1 0.0 143.8

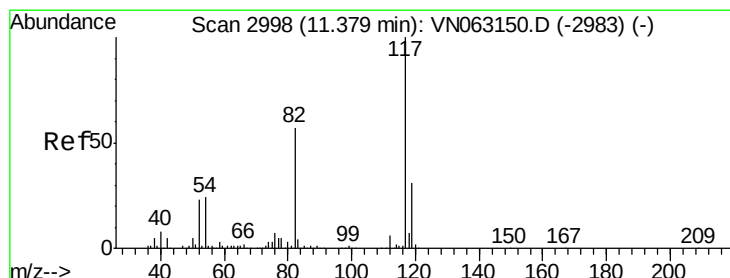
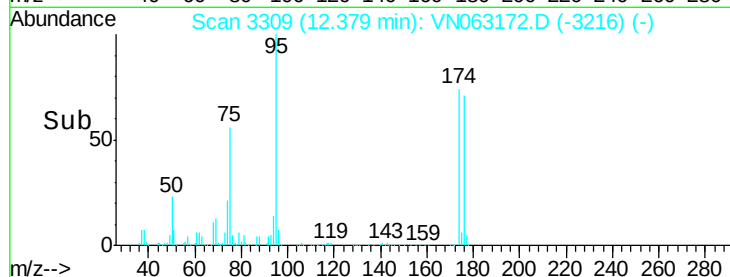
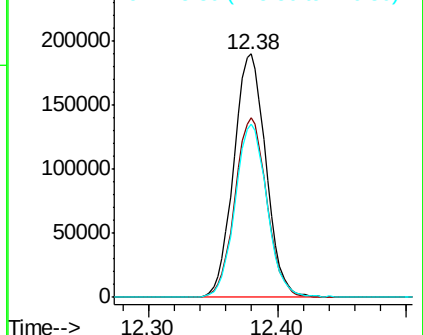
176 70.5 0.0 138.4



Abundance Ion 94.90 (94.60 to 95.60): VN0

Ion 173.80 (173.50 to 174.50): VN0

Ion 175.80 (175.50 to 176.50): VN0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.38 min Scan# 2999

Delta R.T. 0.00 min

Lab File: VN063172.D

Acq: 1 Sep 2020 22:04

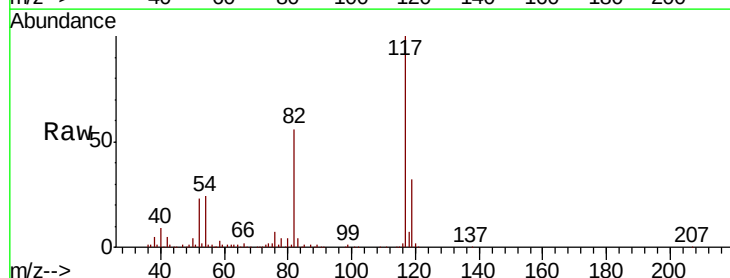
Tgt Ion: 117 Resp: 723447

Ion Ratio Lower Upper

117 100

82 56.0 45.4 68.0

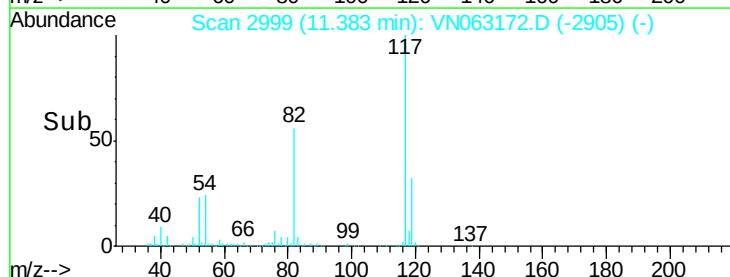
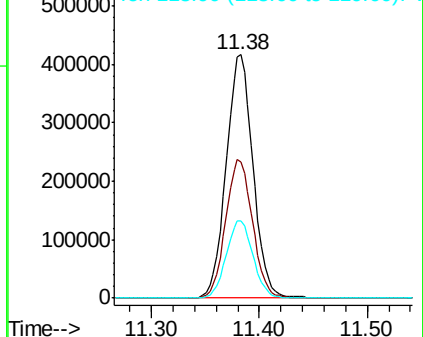
119 32.0 24.6 37.0

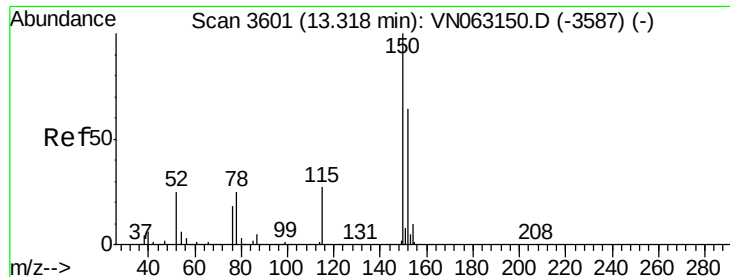


Abundance Ion 116.90 (116.60 to 117.60): VN0

Ion 82.00 (81.70 to 82.70): VN0

Ion 118.90 (118.60 to 119.60): VN0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3602

Delta R.T. 0.00 min

Lab File: VN063172.D

Acq: 1 Sep 2020 22:04

Instrument :

MSVOA_N

ClientSampleId :

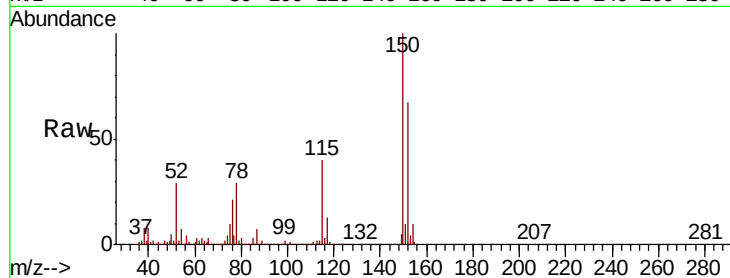
Tot Ion:152 Resp: 291024

Ion Ratio Lower Upper

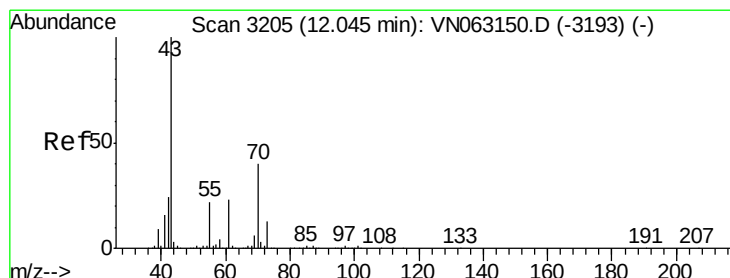
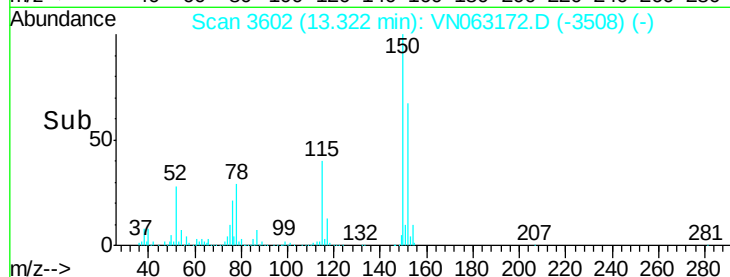
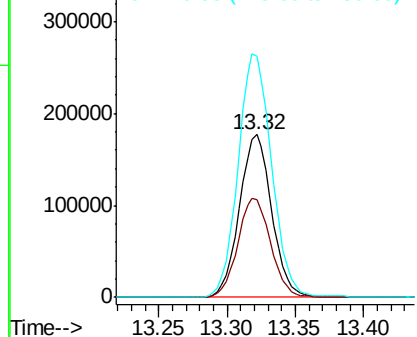
152 100

115 62.2 32.0 96.2

150 155.8 0.0 353.0



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: 0.444 ug/l

RT: 12.00 min Scan# 3192

Delta R.T. -0.04 min

Lab File: VN063172.D

Acq: 1 Sep 2020 22:04

Tgt Ion: 43 Resp: 4106

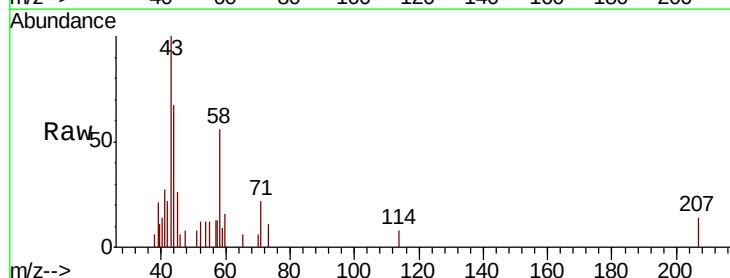
Ion Ratio Lower Upper

43 100

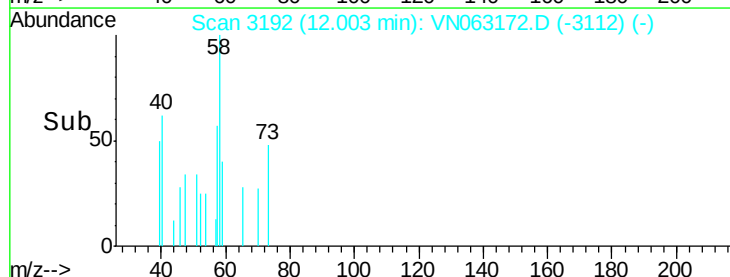
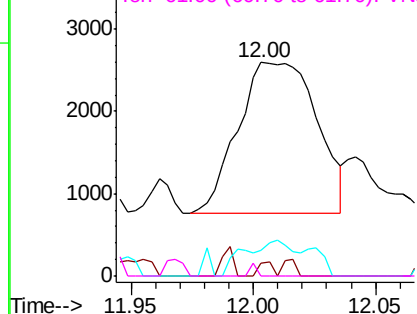
70 1.6 32.1 48.1#

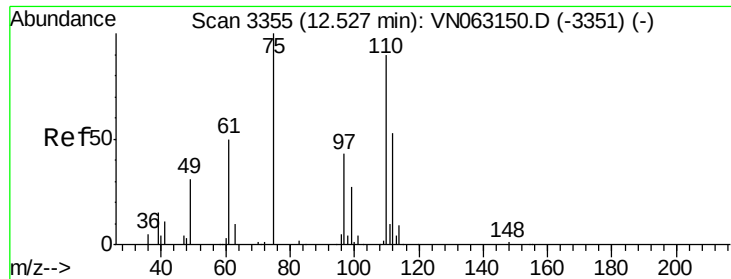
55 15.2 17.4 26.0#

61 0.0 18.6 27.8#



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: 32.548 ug/l

RT: 12.38 min Scan# 3309

Delta R.T. -0.15 min

Lab File: VN063172.D

Acq: 1 Sep 2020 22:04

Instrument :

MSVOA_N

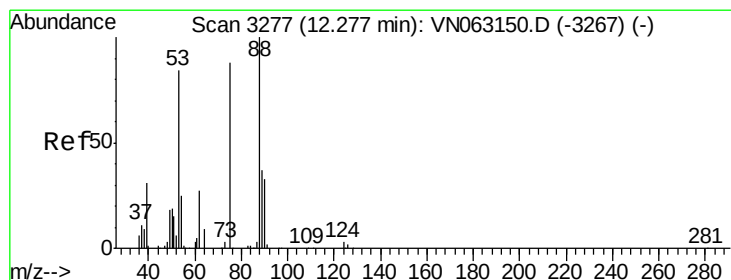
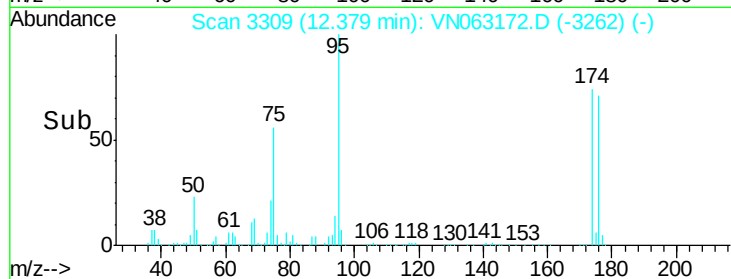
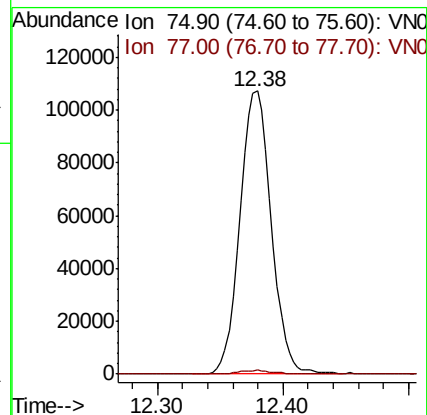
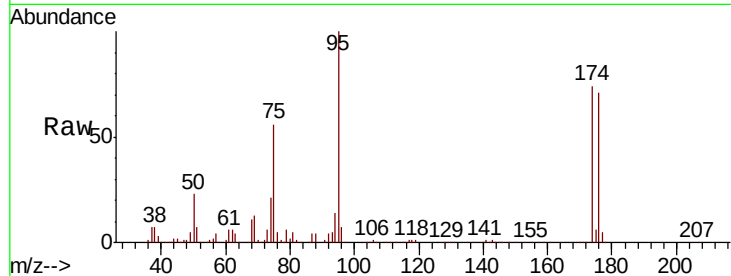
ClientSampleId :

Tot Ion: 75 Resp: 186108

Ion Ratio Lower Upper

75 100

77 1.4 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 78.667 ug/l

RT: 12.38 min Scan# 3309

Delta R.T. 0.10 min

Lab File: VN063172.D

Acq: 1 Sep 2020 22:04

Tgt Ion: 75 Resp: 186108

Ion Ratio Lower Upper

75 100

53 0.0 78.7 118.1#

89 0.0 35.3 52.9#

