

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN120420\
 Data File : VN064916.D
 Acq On : 4 Dec 2020 14:05
 Operator : JC/MD
 Sample : PB133386TB
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB133386TB

Quant Time: Dec 05 01:28:06 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N112320W.M
 Quant Title : SW846 8260
 QLast Update : Mon Nov 23 13:54:12 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	170686	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	306094	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	331179	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	147462	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	106680	53.76	ug/l	0.00
Spiked Amount	50.000	Range	61 - 141	Recovery	=	107.52%	
35) Dibromofluoromethane		7.55	113	97018	52.97	ug/l	0.00
Spiked Amount	50.000	Range	69 - 133	Recovery	=	105.94%	
50) Toluene-d8		10.06	98	394023	52.65	ug/l	0.00
Spiked Amount	50.000	Range	65 - 126	Recovery	=	105.30%	
62) 4-Bromofluorobenzene		12.38	95	153271	57.23	ug/l	0.00
Spiked Amount	50.000	Range	58 - 135	Recovery	=	114.46%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.76	59	88	0.284	ug/l #	73
16) Acetone	3.79	43	6370	9.765	ug/l	97
20) Methylene Chloride	4.50	84	16391	8.019	ug/l	86
25) 2-Butanone	6.80	43	5393	5.100	ug/l	90
29) Tetrahydrofuran	7.18	42	732	1.003	ug/l #	35
31) Cyclohexane	7.63	56	2871	1.038	ug/l #	1
36) 1,1-Dichloropropene	7.63	75	11655	4.108	ug/l #	47
37) Ethyl Acetate	6.80	43	5393	1.973	ug/l #	66
38) Carbon Tetrachloride	7.62	117	16143	5.468	ug/l #	18
41) Methacrylonitrile	7.17	41	328	0.260	ug/l #	20
43) Isopropyl Acetate	8.13	43	19057	4.333	ug/l	94
45) 1,2-Dichloropropane	9.24	63	1313	0.583	ug/l #	43
48) Methyl methacrylate	9.14	41	4586	2.182	ug/l #	12
49) 1,4-Dioxane	9.23	88	59	1.486	ug/l #	1
51) 4-Methyl-2-Pentanone	9.95	43	3129	1.185	ug/l	96
54) cis-1,3-Dichloropropene	9.87	75	29357	8.125	ug/l #	61
57) 1,3-Dichloropropane	10.74	76	16327	4.495	ug/l #	42
59) 2-Hexanone	10.74	43	212716	111.952	ug/l #	52
74) N-amyl acetate	12.00	43	1502	0.372	ug/l #	42
76) 1,2,3-Trichloropropane	12.37	75	73552	23.161	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.37	75	73552	63.478	ug/l #	15

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. 0.00 min

Lab File: VN064916.D

Acq: 4 Dec 2020 14:05

Instrument :

MSVOA_N

ClientSampleId :

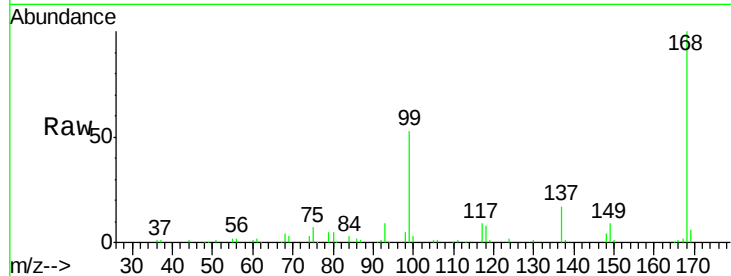
PB133386TB

Tot Ion:168 Resp: 170686

Ion Ratio Lower Upper

168 100

99 53.1 43.0 64.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.63

80000

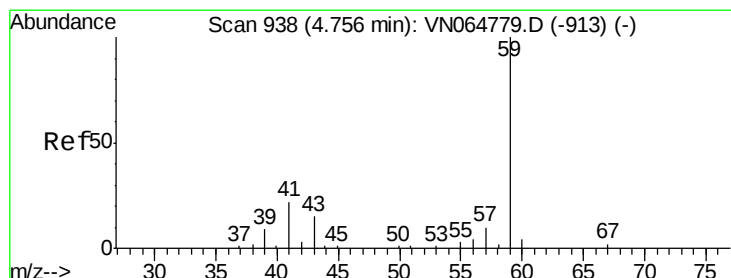
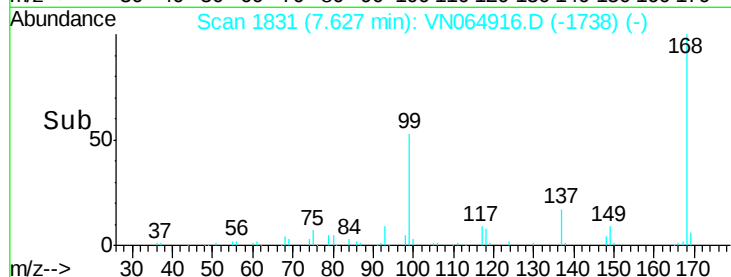
60000

40000

20000

0

Time-->



#11

Tert butyl alcohol

Concen: 0.284 ug/l

RT: 4.76 min Scan# 939

Delta R.T. 0.00 min

Lab File: VN064916.D

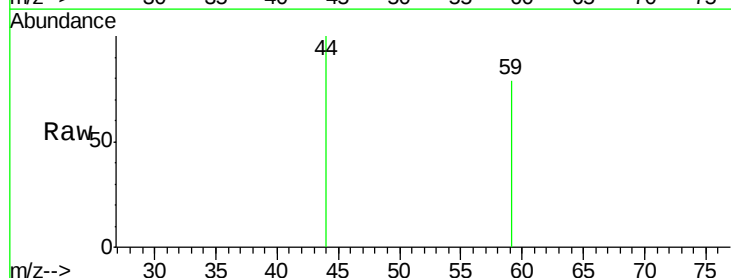
Acq: 4 Dec 2020 14:05

Tgt Ion: 59 Resp: 88

Ion Ratio Lower Upper

59 100

57 0.0 7.9 11.9#



Abundance Ion 59.00 (58.70 to 59.70): VN

Ion 57.00 (56.70 to 57.70): VN

4.76

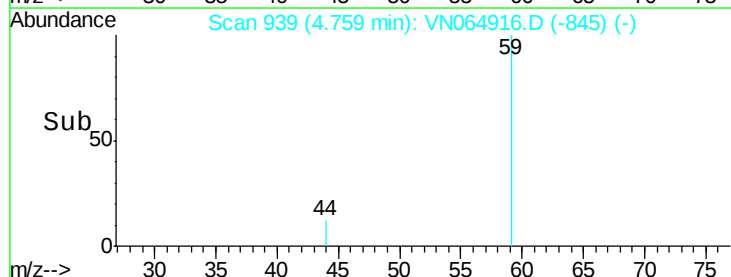
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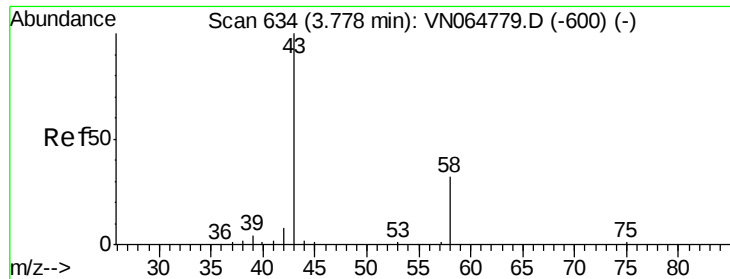
200

100

0

Time-->





#16

Acetone

Concen: 9.765 ug/l

RT: 3.79 min Scan# 637

Delta R.T. 0.01 min

Lab File: VN064916.D

Acq: 4 Dec 2020 14:05

Instrument :

MSVOA_N

ClientSampled :

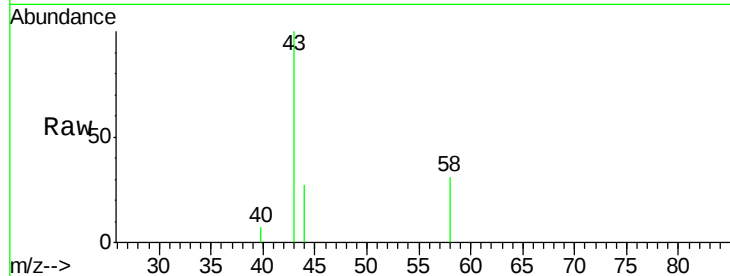
PB133386TB

Tot Ion: 43 Resp: 6370

Ion Ratio Lower Upper

43 100

58 30.6 25.7 38.5



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

2500

2000

1500

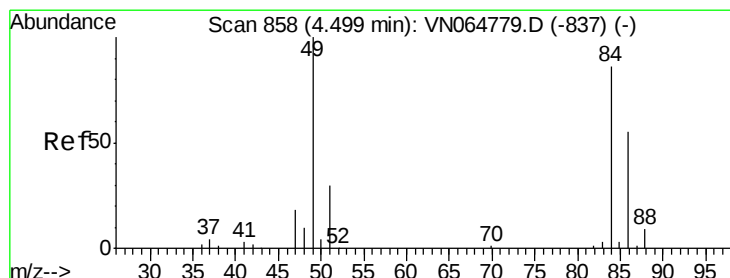
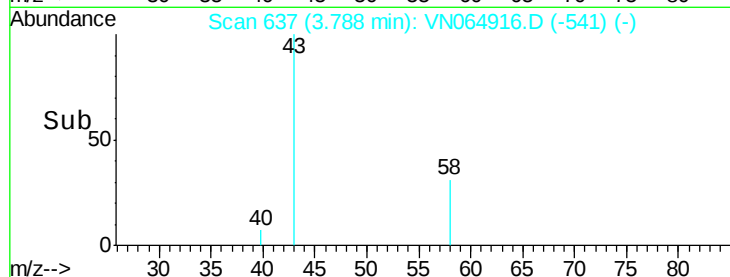
1000

500

0

3.70 3.75 3.80 3.85

Time-->



#20

Methylene Chloride

Concen: 8.019 ug/l

RT: 4.50 min Scan# 857

Delta R.T. -0.00 min

Lab File: VN064916.D

Acq: 4 Dec 2020 14:05

Tgt Ion: 84 Resp: 16391

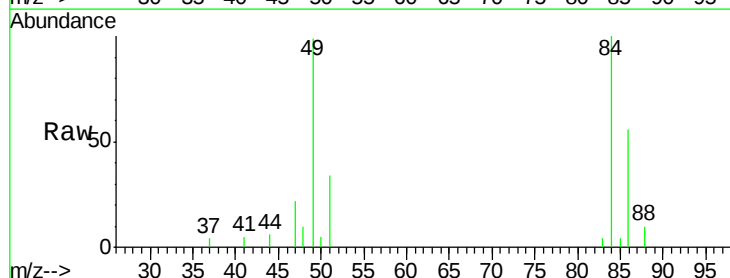
Ion Ratio Lower Upper

84 100

49 95.7 93.4 140.0

51 34.0 28.2 42.4

86 55.8 51.7 77.5



Abundance Ion 83.90 (83.60 to 84.60): VN0

Ion 48.90 (48.60 to 49.60): VN0

Ion 50.90 (50.60 to 51.60): VN0

Ion 85.90 (85.60 to 86.60): VN0

10000

8000

6000

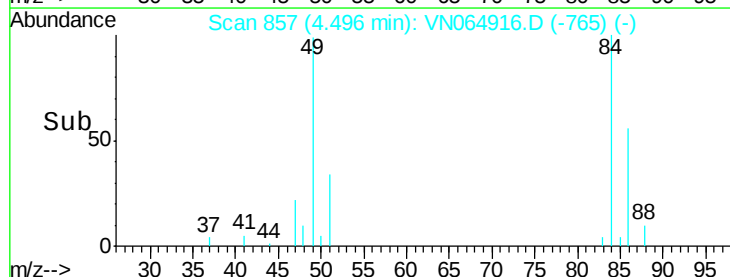
4000

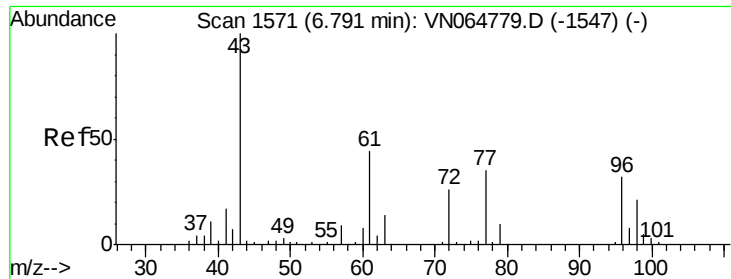
2000

0

4.40 4.45 4.50 4.55 4.60

Time-->

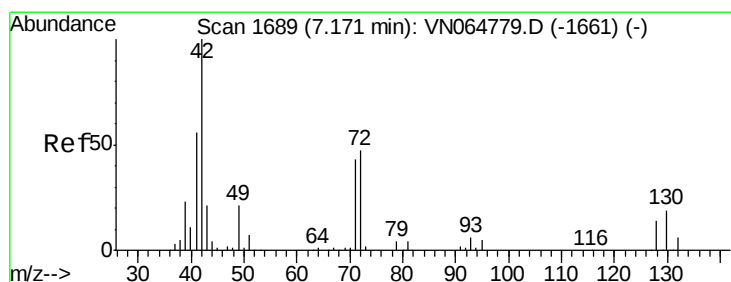
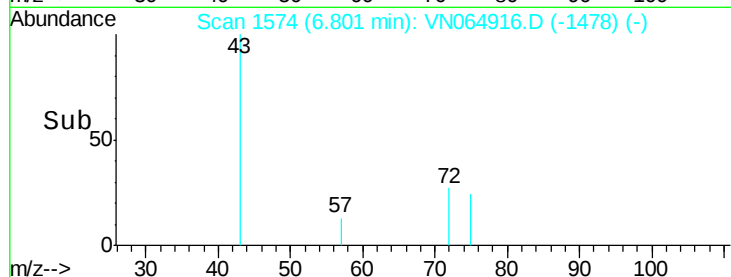
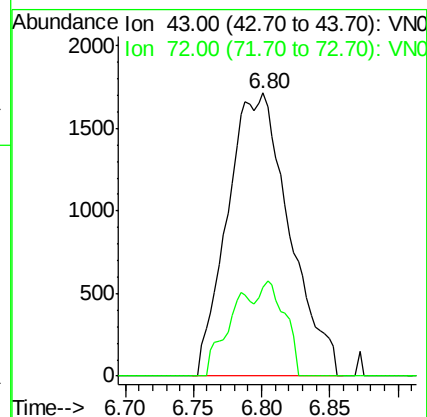
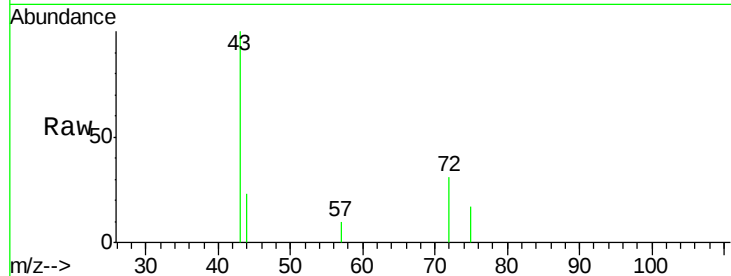




#25
2-Butanone
Concen: 5.100 ug/l
RT: 6.80 min Scan# 1574
Delta R.T. 0.01 min
Lab File: VN064916.D
Acq: 4 Dec 2020 14:05

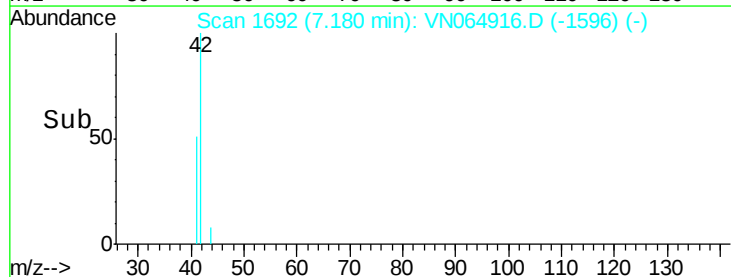
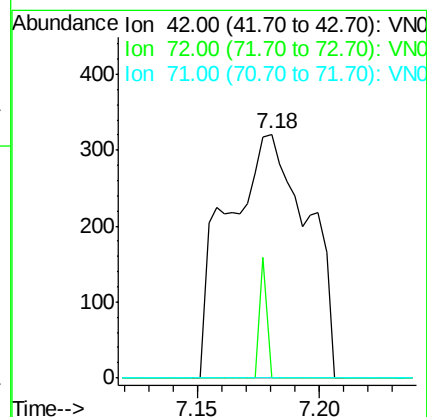
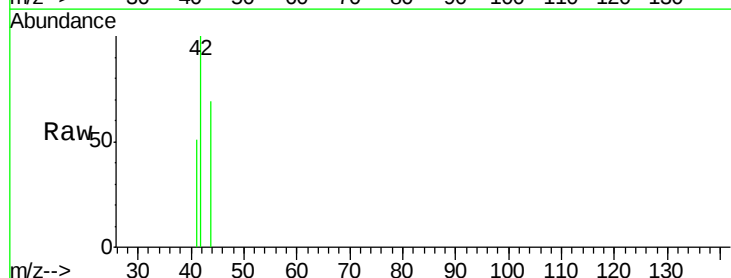
Instrument :
MSVOA_N
ClientSampleId :
PB133386TB

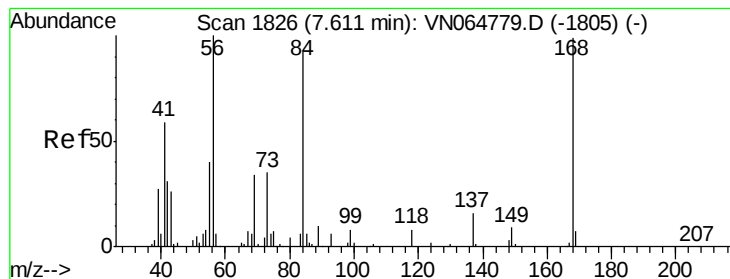
Tot Ion: 43 Resp: 5393
Ion Ratio Lower Upper
43 100
72 31.3 21.0 31.6



#29
Tetrahydrofuran
Concen: 1.003 ug/l
RT: 7.18 min Scan# 1692
Delta R.T. 0.01 min
Lab File: VN064916.D
Acq: 4 Dec 2020 14:05

Tgt Ion: 42 Resp: 732
Ion Ratio Lower Upper
42 100
72 4.1 36.6 54.8#
71 0.0 33.6 50.4#





#31

Cyclohexane

Concen: 1.038 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. 0.02 min

Lab File: VN064916.D

Acq: 4 Dec 2020 14:05

Instrument :

MSVOA_N

ClientSampleId :

PB133386TB

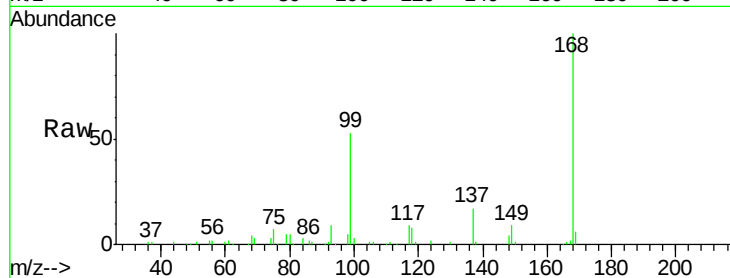
Tot Ion: 56 Resp: 2871

Ion Ratio Lower Upper

56 100

69 181.6 27.5 41.3#

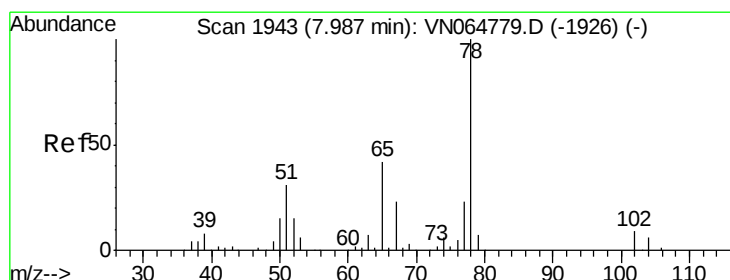
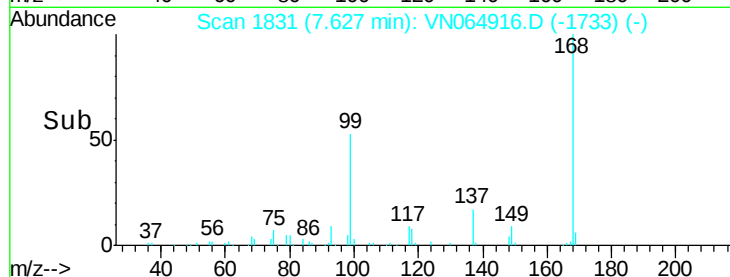
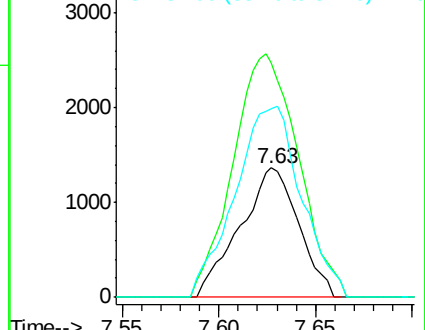
84 146.1 73.9 110.9#



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: 53.761 ug/l

RT: 7.99 min Scan# 1943

Delta R.T. 0.00 min

Lab File: VN064916.D

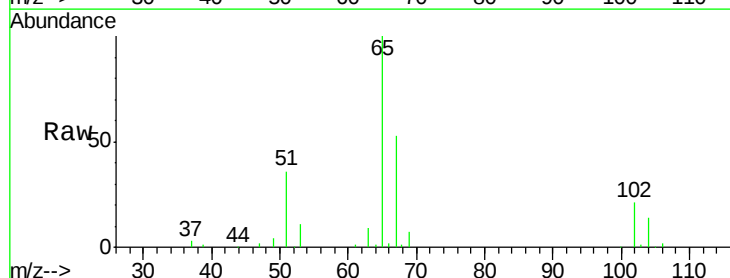
Acq: 4 Dec 2020 14:05

Tgt Ion: 65 Resp: 106680

Ion Ratio Lower Upper

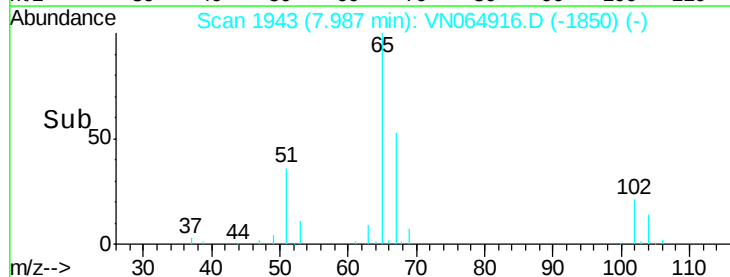
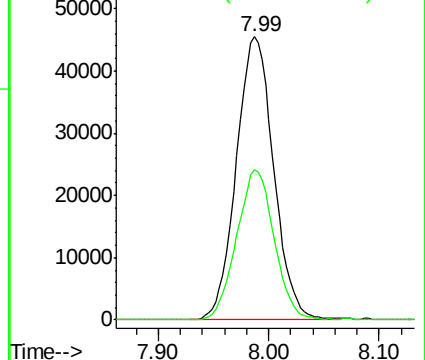
65 100

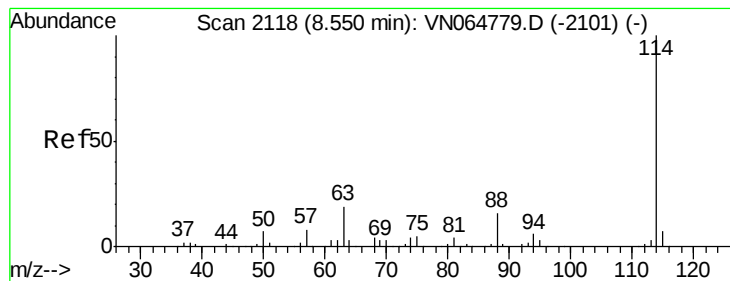
67 53.2 0.0 108.2



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: 8.55 min Scan# 2118

Delta R.T. 0.00 min

Lab File: VN064916.D

Acq: 4 Dec 2020 14:05

Instrument :

MSVOA_N

ClientSampleId :

PB133386TB

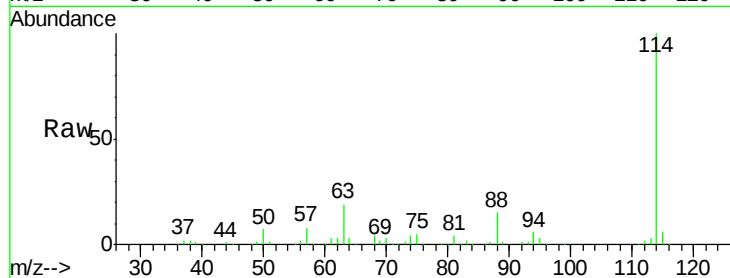
Tot Ion:114 Resp: 306094

Ion Ratio Lower Upper

114 100

63 18.6 0.0 38.6

88 15.0 0.0 32.6



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN0

Ion 87.90 (87.60 to 88.60): VN0

200000

150000

100000

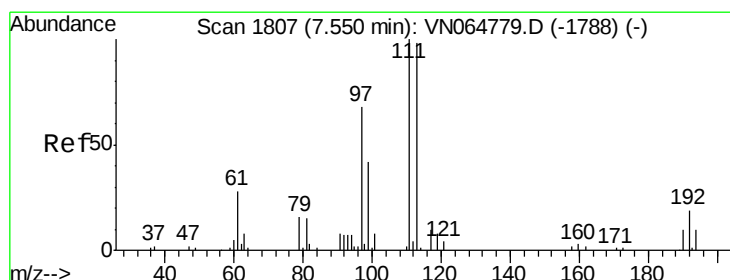
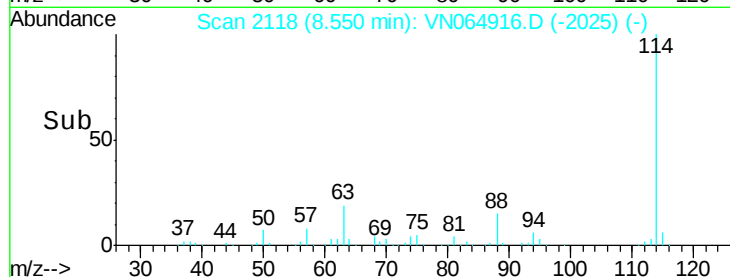
50000

0

8.55

8.60

Time-->



#35

Dibromofluoromethane

Concen: 52.970 ug/l

RT: 7.55 min Scan# 1807

Delta R.T. 0.00 min

Lab File: VN064916.D

Acq: 4 Dec 2020 14:05

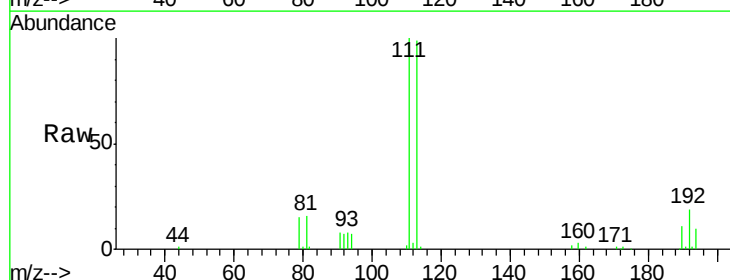
Tgt Ion:113 Resp: 97018

Ion Ratio Lower Upper

113 100

111 102.4 81.6 122.4

192 20.0 16.2 24.2



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

50000

40000

30000

20000

10000

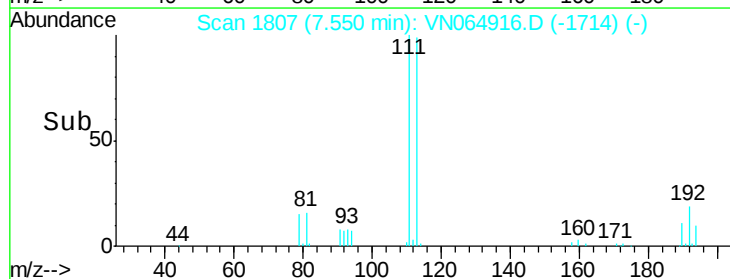
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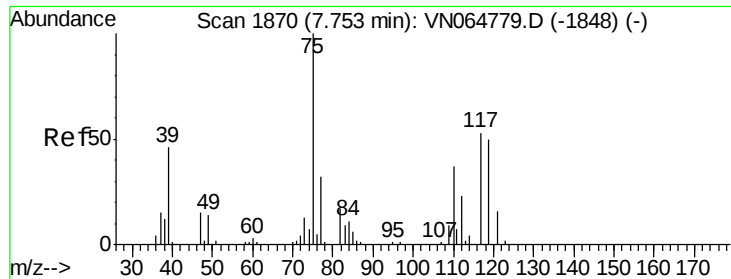
7.55

7.60

7.70

Time-->

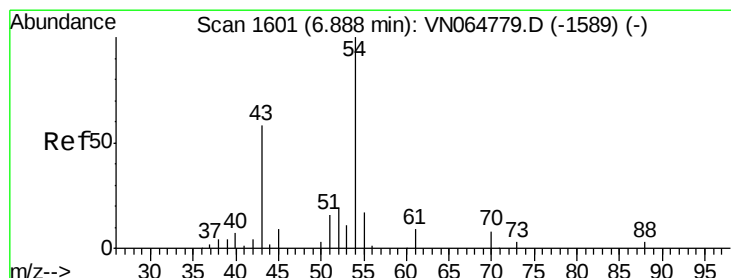
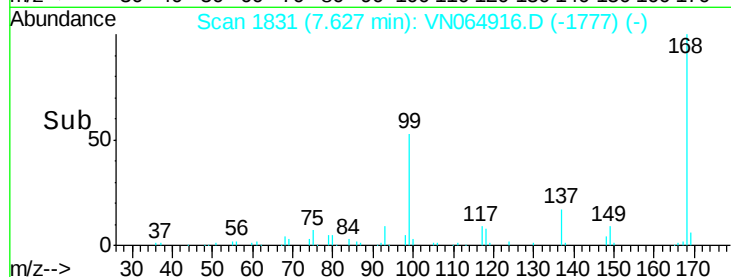
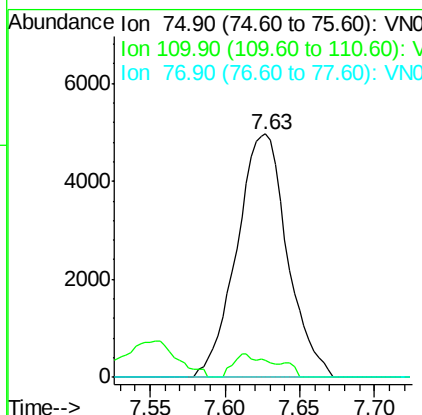
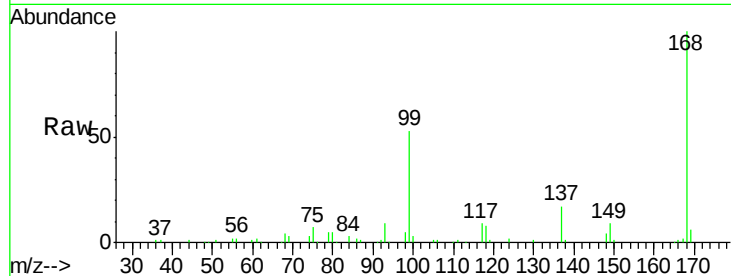




#36
 1,1-Dichloropropene
 Concen: 4.108 ug/l
 RT: 7.63 min Scan# 1831
 Delta R.T. -0.13 min
 Lab File: VN064916.D
 Acq: 4 Dec 2020 14:05

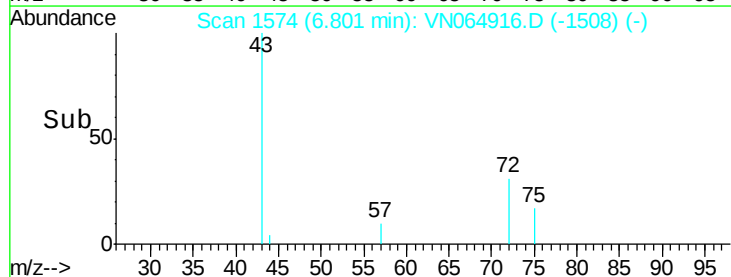
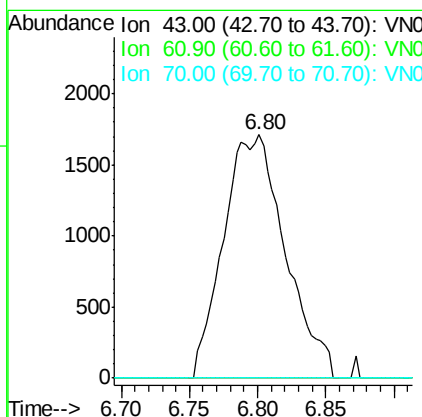
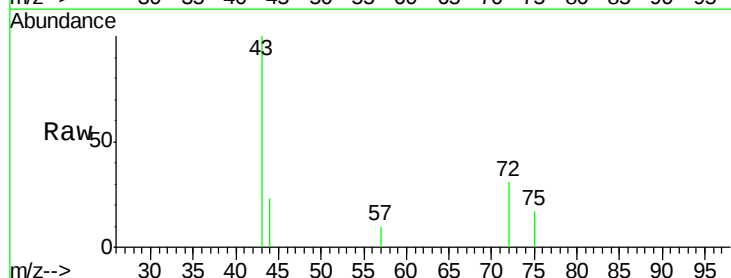
Instrument :
 MSVOA_N
 ClientSampleID :
 PB133386TB

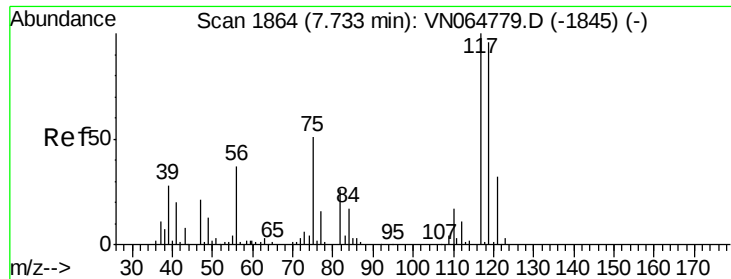
Tot Ion: 75 Resp: 11655
 Ion Ratio Lower Upper
 75 100
 110 6.2 17.8 53.3#
 77 0.0 25.0 37.4#



#37
 Ethyl Acetate
 Concen: 1.973 ug/l
 RT: 6.80 min Scan# 1574
 Delta R.T. -0.09 min
 Lab File: VN064916.D
 Acq: 4 Dec 2020 14:05

Tgt Ion: 43 Resp: 5393
 Ion Ratio Lower Upper
 43 100
 61 0.0 12.8 19.2#
 70 0.0 8.8 13.2#

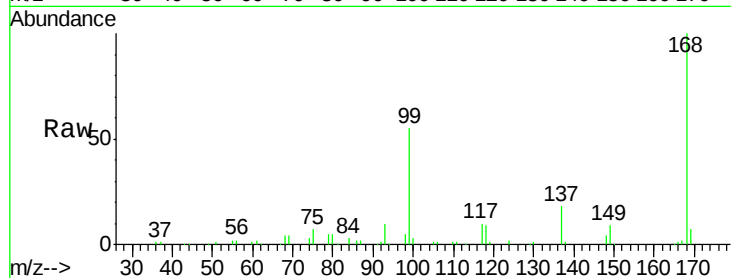




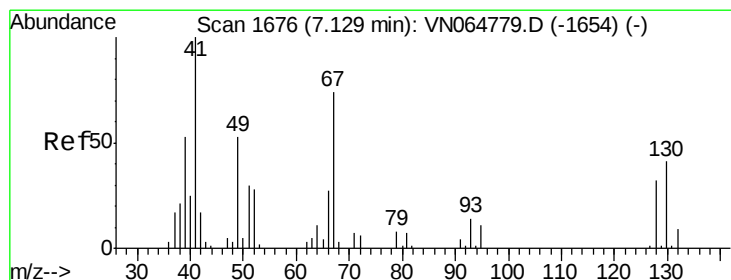
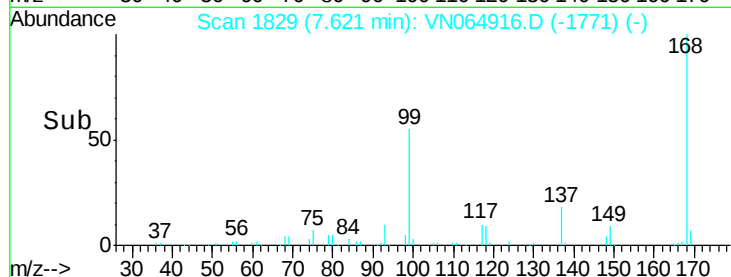
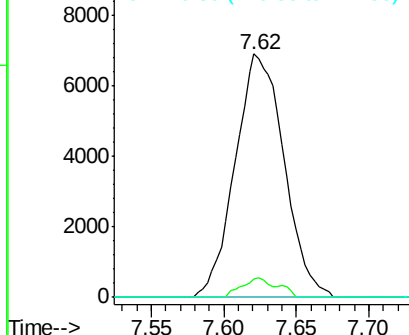
#38
Carbon Tetrachloride
Concen: 5.468 ug/l
RT: 7.62 min Scan# 1829
Delta R.T. -0.11 min
Lab File: VN064916.D
Acq: 4 Dec 2020 14:05

Instrument :
MSVOA_N
ClientSampleId :
PB133386TB

Tot Ion:117 Resp: 16143
Ion Ratio Lower Upper
117 100
119 7.4 76.7 115.1#
121 0.0 25.4 38.2#

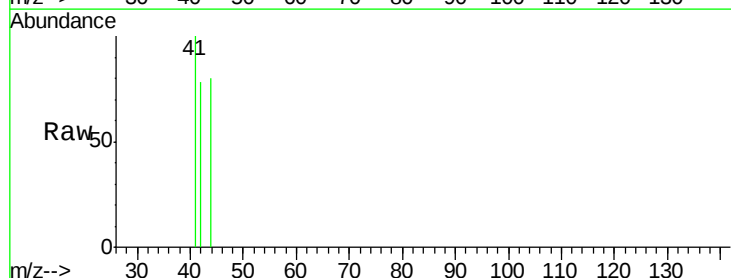


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

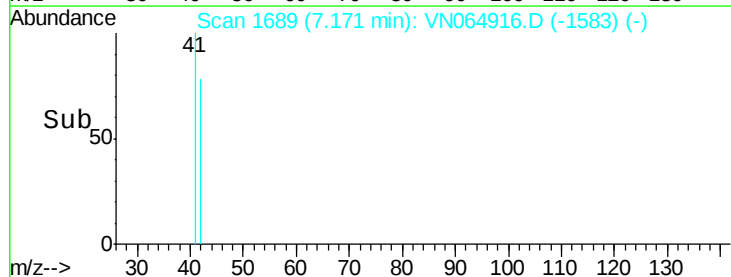
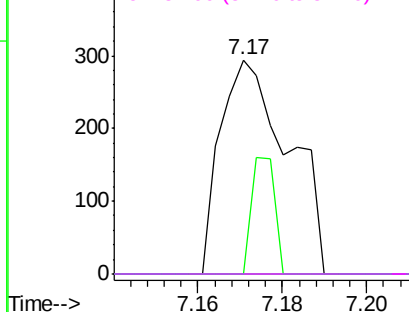


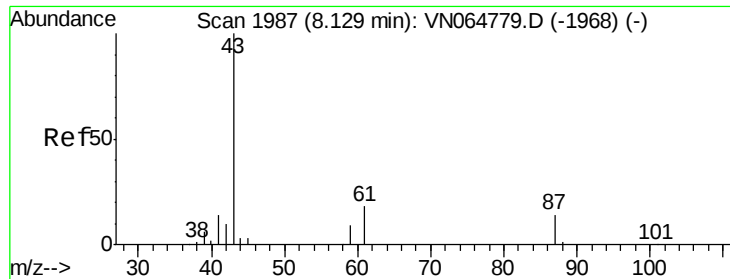
#41
Methacrylonitrile
Concen: 0.260 ug/l
RT: 7.17 min Scan# 1689
Delta R.T. 0.04 min
Lab File: VN064916.D
Acq: 4 Dec 2020 14:05

Tgt Ion: 41 Resp: 328
Ion Ratio Lower Upper
41 100
39 18.9 51.0 76.6#
67 0.0 79.8 119.8#
52 0.0 31.5 47.3#



Abundance Ion 41.00 (40.70 to 41.70): VNO
Ion 39.00 (38.70 to 39.70): VNO
Ion 67.00 (66.70 to 67.70): VNO
Ion 52.00 (51.70 to 52.70): VNO





#43

Isopropyl Acetate

Concen: 4.333 ug/l

RT: 8.13 min Scan# 1987

Delta R.T. 0.00 min

Lab File: VN064916.D

Acq: 4 Dec 2020 14:05

Instrument :

MSVOA_N

ClientSampleId :

PB133386TB

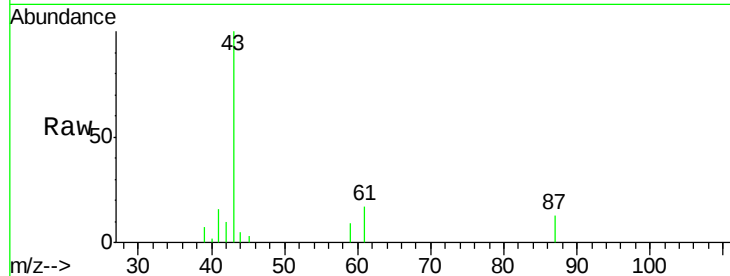
Tot Ion: 43 Resp: 19057

Ion Ratio Lower Upper

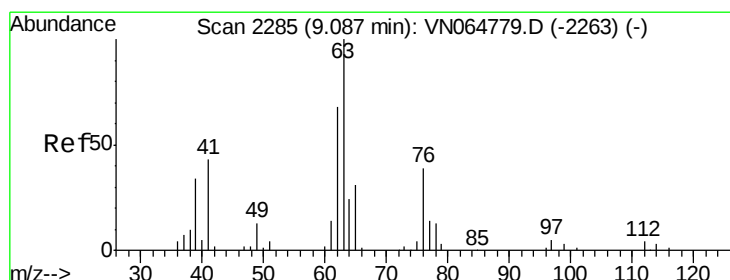
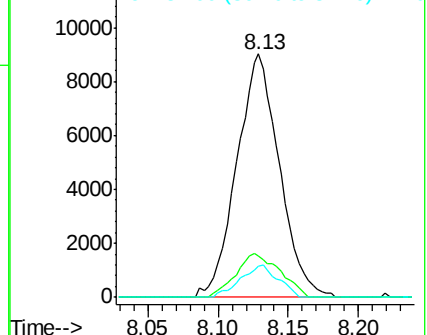
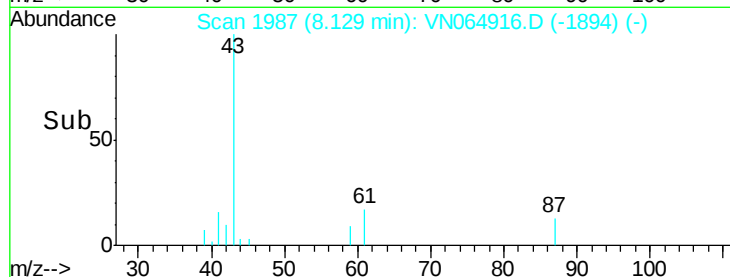
43 100

61 18.6 17.2 25.8

87 11.7 11.4 17.0



Abundance Ion 43.00 (42.70 to 43.70): VN064916.D (-1894) (-)



#45

1,2-Dichloropropane

Concen: 0.583 ug/l

RT: 9.24 min Scan# 2332

Delta R.T. 0.15 min

Lab File: VN064916.D

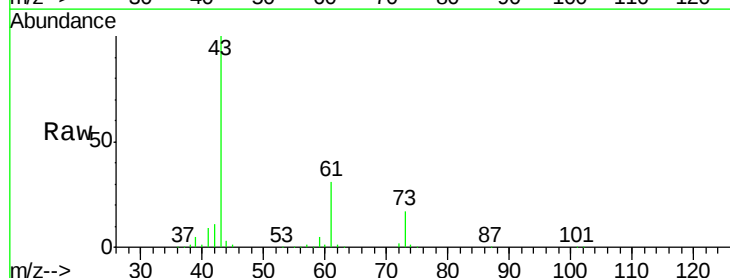
Acq: 4 Dec 2020 14:05

Tgt Ion: 63 Resp: 1313

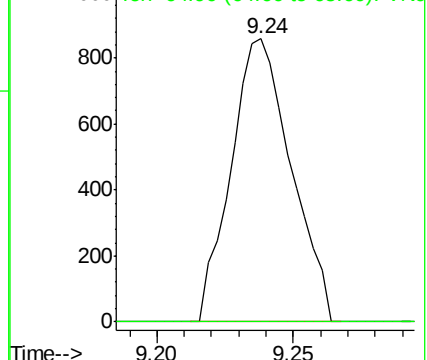
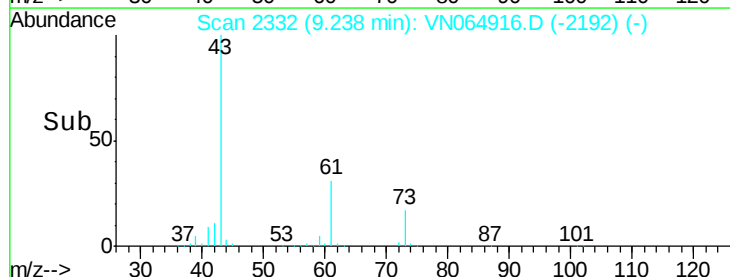
Ion Ratio Lower Upper

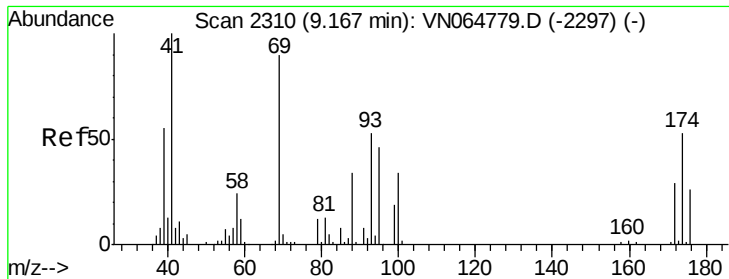
63 100

65 0.0 25.0 37.4#



Abundance Ion 62.90 (62.60 to 63.60): VN064916.D (-2192) (-)

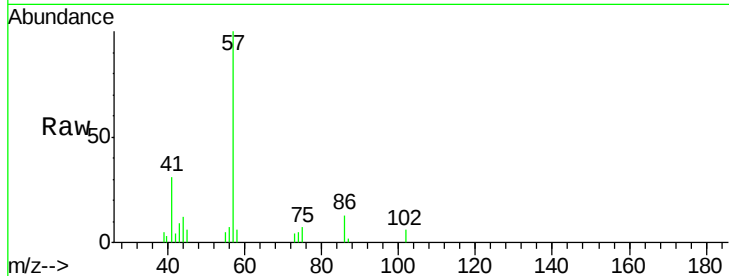




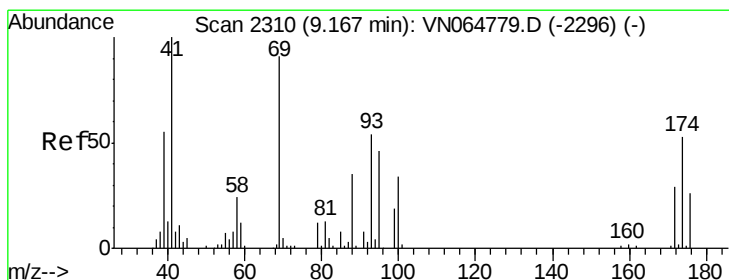
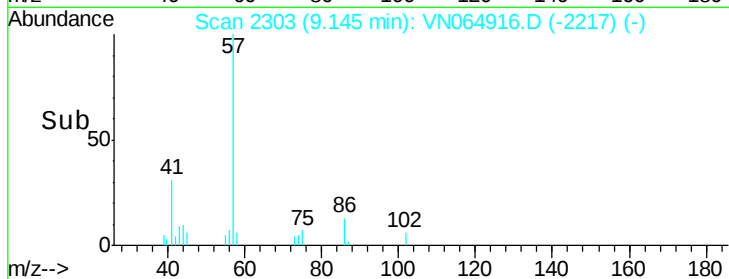
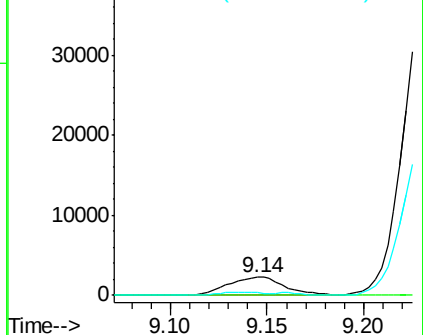
#48
Methvl methacrylate
Concen: 2.182 ug/l
RT: 9.14 min Scan# 2303
Delta R.T. -0.02 min
Lab File: VN064916.D
Acq: 4 Dec 2020 14:05

Instrument :
MSVOA_N
ClientSampleId :
PB133386TB

Tot Ion: 41 Resp: 4586
Ion Ratio Lower Upper
41 100
69 0.0 71.8 107.8#
39 0.0 44.1 66.1#

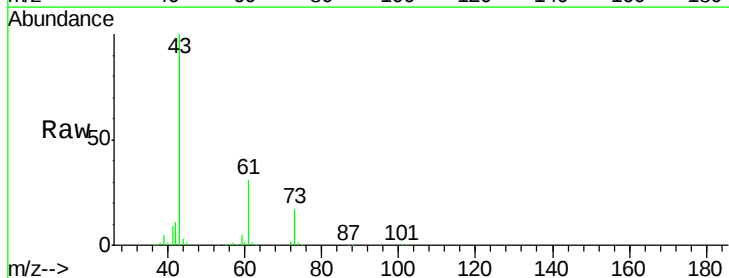


Abundance Ion 41.00 (40.70 to 41.70): VNC
Ion 69.00 (68.70 to 69.70): VNC
Ion 39.00 (38.70 to 39.70): VNC

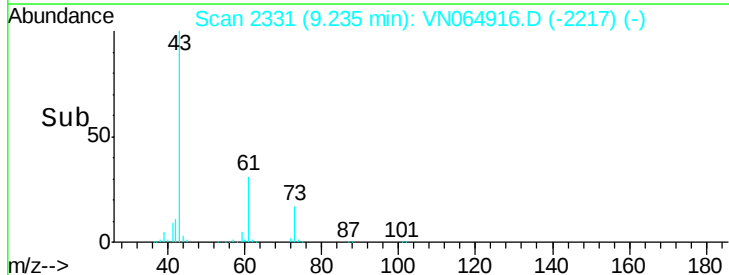
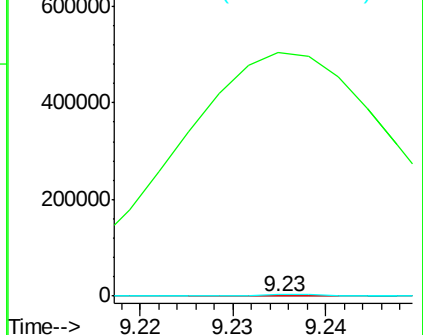


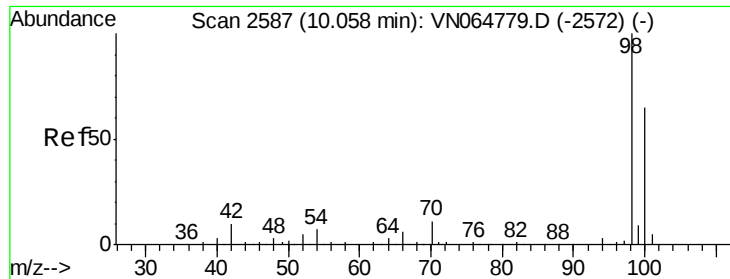
#49
1,4-Dioxane
Concen: 1.486 ug/l
RT: 9.23 min Scan# 2331
Delta R.T. 0.07 min
Lab File: VN064916.D
Acq: 4 Dec 2020 14:05

Tgt Ion: 88 Resp: 59
Ion Ratio Lower Upper
88 100
43 1571296.6 24.2 36.4#
58 7708.5 52.5 78.7#



Abundance Ion 88.00 (87.70 to 88.70): VNC
Ion 43.00 (42.70 to 43.70): VNC
Ion 58.00 (57.70 to 58.70): VNC





#50

Toluene-d8

Concen: 52.651 ug/l

RT: 10.06 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN064916.D

Acq: 4 Dec 2020 14:05

Instrument :

MSVOA_N

ClientSampleId :

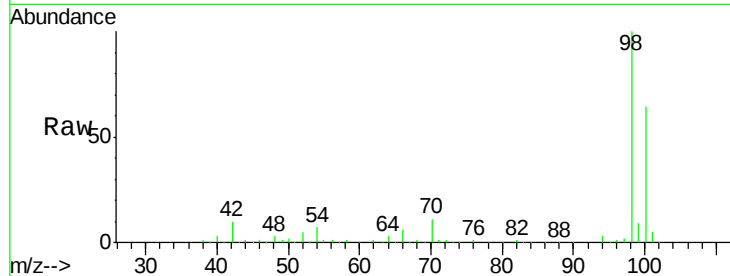
PB133386TB

Tot Ion: 98 Resp: 394023

Ion Ratio Lower Upper

98 100

100 64.4 51.7 77.5



Abundance Ion 98.00 (97.70 to 98.70): VN064779.D (-2572) (-)

Ion 100.00 (99.70 to 100.70): VN064779.D (-2572) (-)

10.06

250000

200000

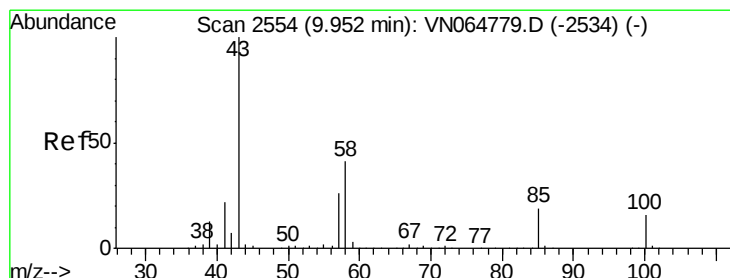
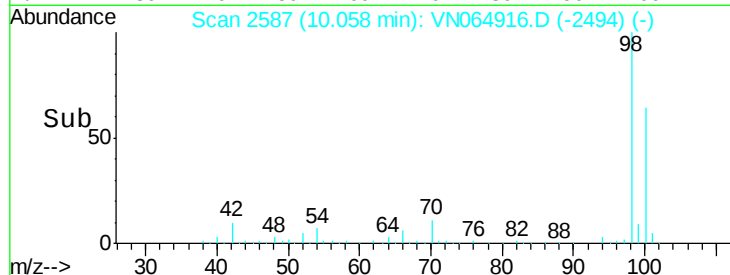
150000

100000

50000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 1.185 ug/l

RT: 9.95 min Scan# 2552

Delta R.T. -0.01 min

Lab File: VN064916.D

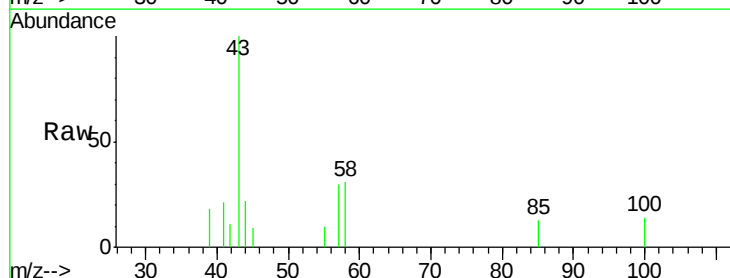
Acq: 4 Dec 2020 14:05

Tgt Ion: 43 Resp: 3129

Ion Ratio Lower Upper

43 100

58 37.7 32.4 48.6



Abundance Ion 43.00 (42.70 to 43.70): VN064779.D (-2534) (-)

Ion 58.00 (57.70 to 58.70): VN064779.D (-2534) (-)

9.95

2500

2000

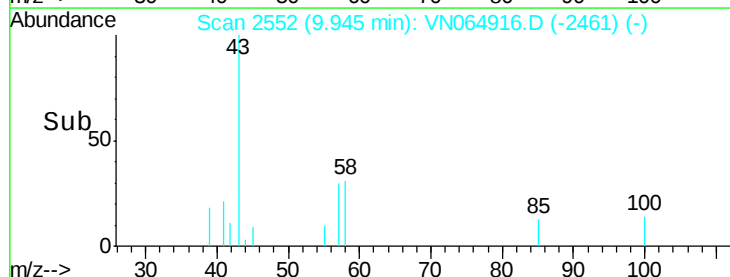
1500

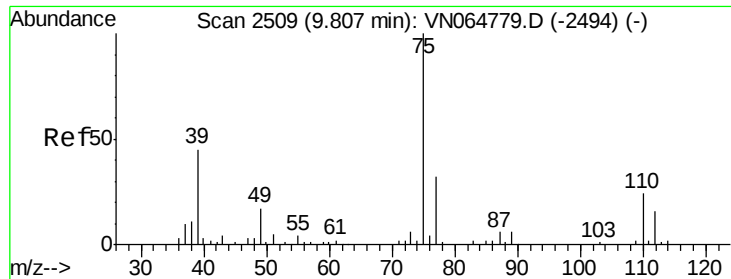
1000

500

0

Time-->

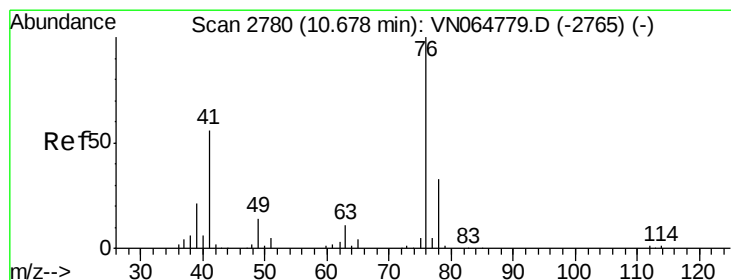
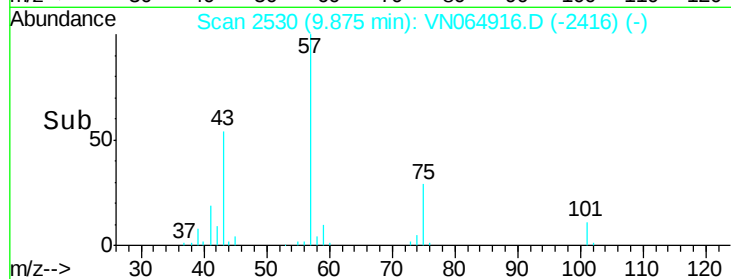
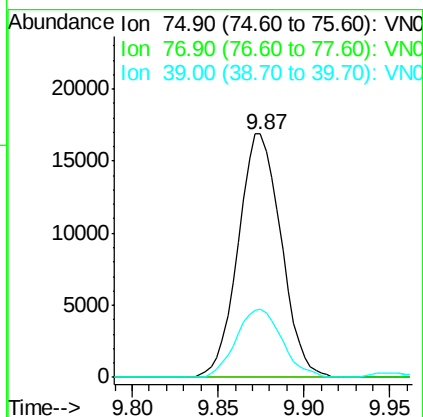
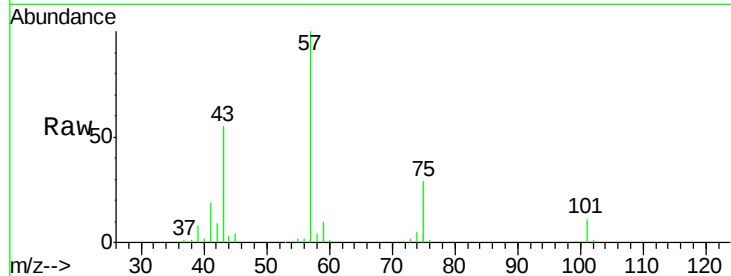




#54
 cis-1,3-Dichloropropene
 Concen: 8.125 ug/l
 RT: 9.87 min Scan# 2530
 Delta R.T. 0.07 min
 Lab File: VN064916.D
 Acq: 4 Dec 2020 14:05

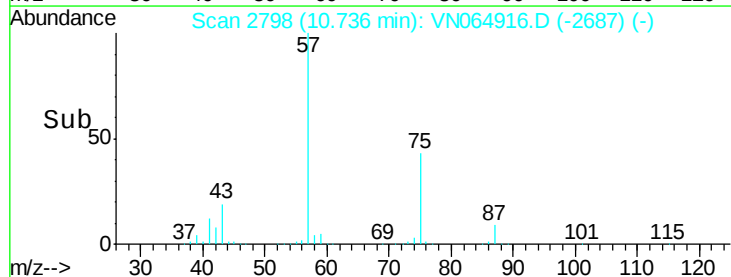
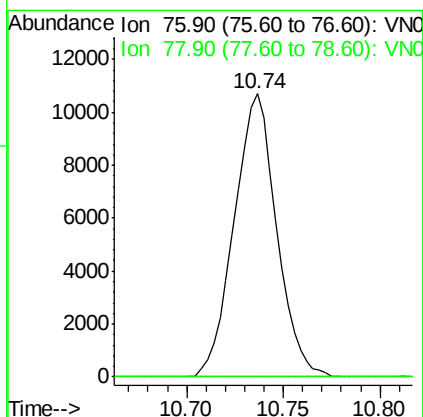
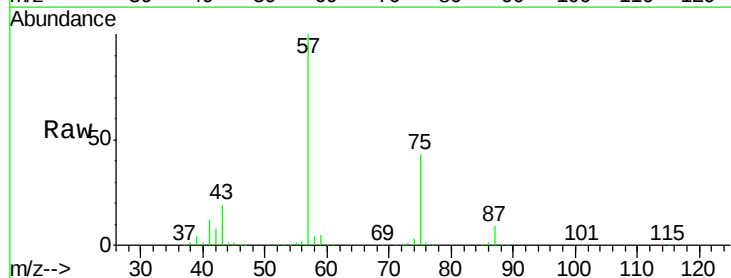
Instrument :
 MSVOA_N
 ClientSampleId :
 PB133386TB

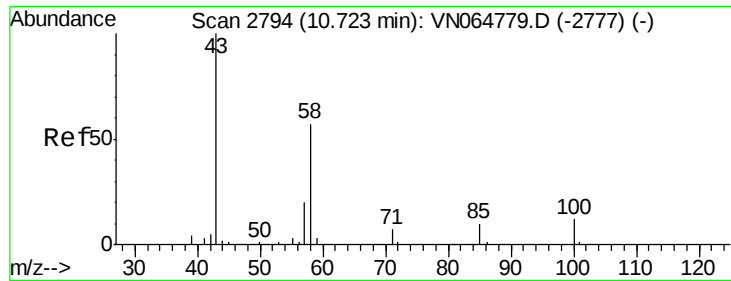
Tot Ion: 75 Resp: 29357
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.5 38.3#
 39 27.9 35.6 53.4#



#57
 1,3-Dichloropropane
 Concen: 4.495 ug/l
 RT: 10.74 min Scan# 2798
 Delta R.T. 0.06 min
 Lab File: VN064916.D
 Acq: 4 Dec 2020 14:05

Tgt Ion: 76 Resp: 16327
 Ion Ratio Lower Upper
 76 100
 78 0.0 26.1 39.1#





#59

2-Hexanone

Concen: 111.952 ug/l

RT: 10.74 min Scan# 2798

Delta R.T. 0.01 min

Lab File: VN064916.D

Acq: 4 Dec 2020 14:05

Instrument :

MSVOA_N

ClientSampled :

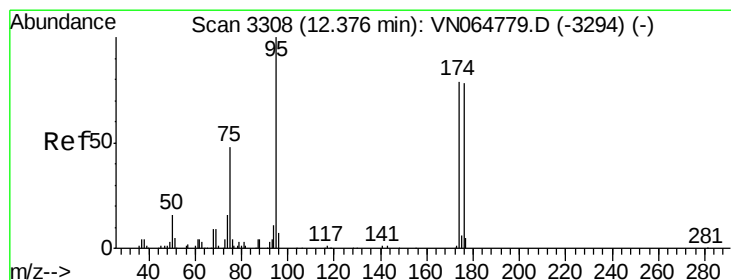
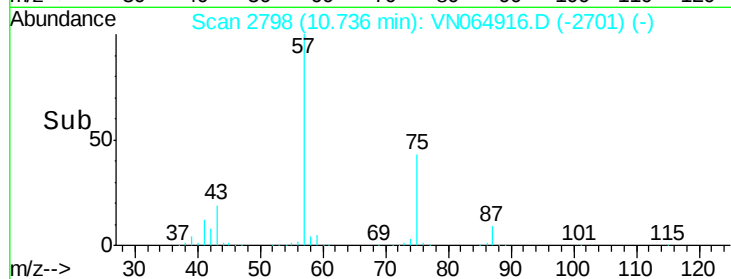
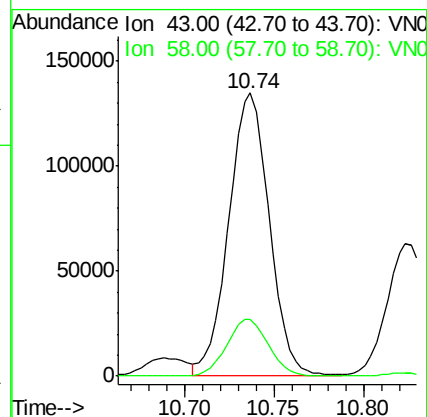
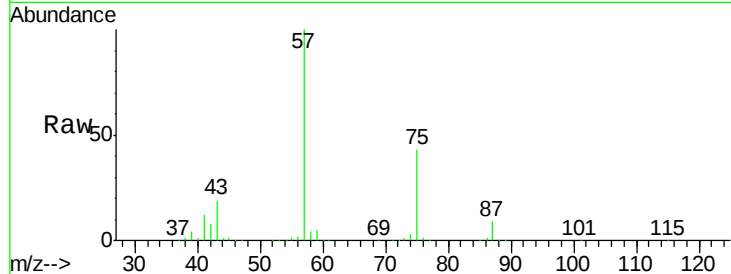
PB133386TB

Tot Ion: 43 Resp: 212716

Ion Ratio Lower Upper

43 100

58 21.1 28.3 84.9#



#62

4-Bromofluorobenzene

Concen: 57.228 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.00 min

Lab File: VN064916.D

Acq: 4 Dec 2020 14:05

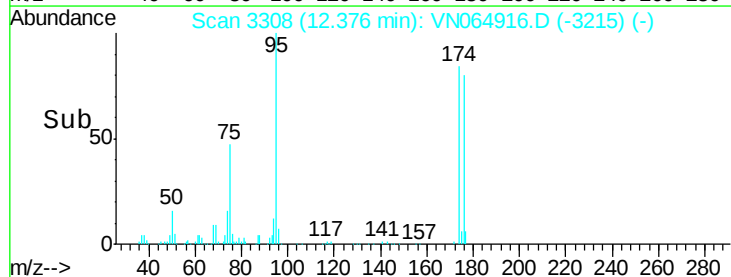
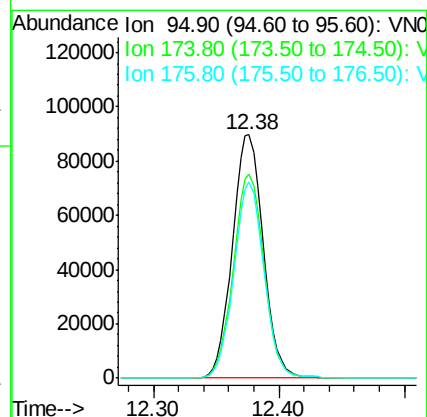
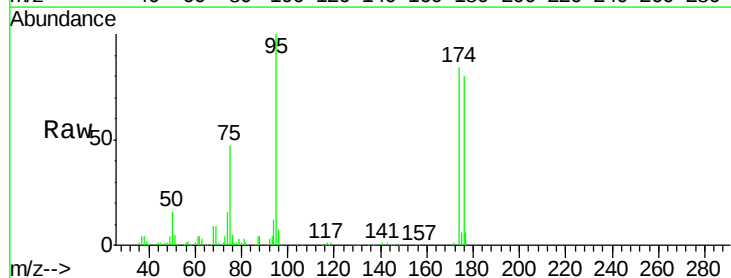
Tgt Ion: 95 Resp: 153271

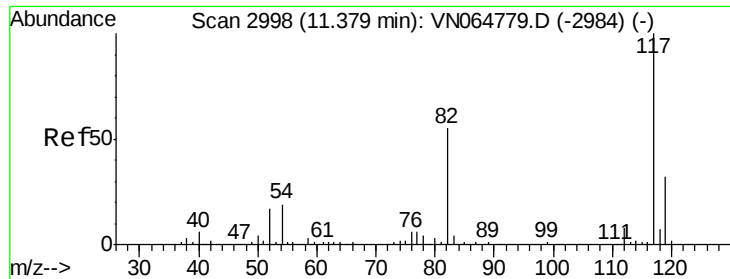
Ion Ratio Lower Upper

95 100

174 83.3 0.0 160.4

176 79.1 0.0 158.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.38 min Scan# 2998

Delta R.T. 0.00 min

Lab File: VN064916.D

Acq: 4 Dec 2020 14:05

Instrument :

MSVOA_N

ClientSampleId :

PB133386TB

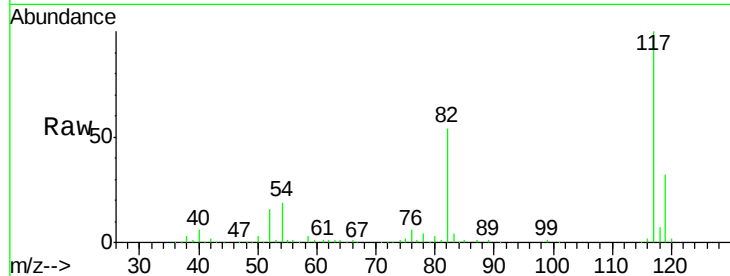
Tot Ion:117 Resp: 331179

Ion Ratio Lower Upper

117 100

82 54.5 44.2 66.2

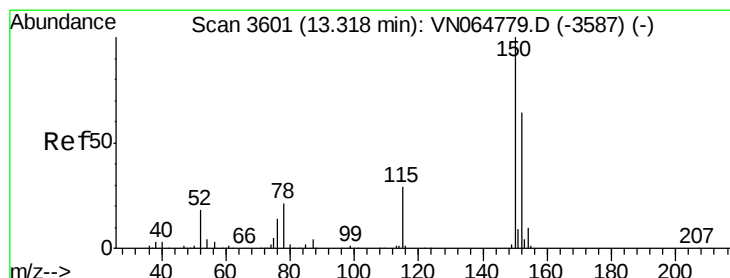
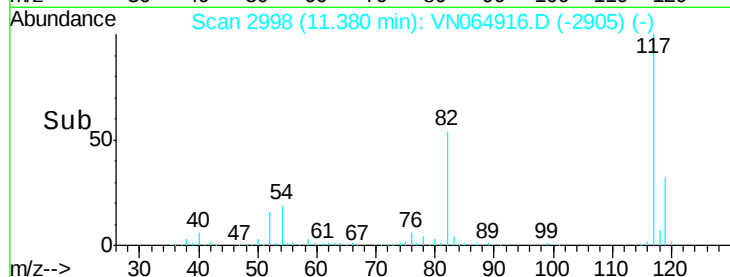
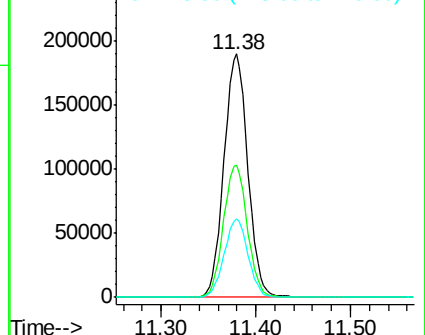
119 32.5 25.8 38.6



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3600

Delta R.T. -0.00 min

Lab File: VN064916.D

Acq: 4 Dec 2020 14:05

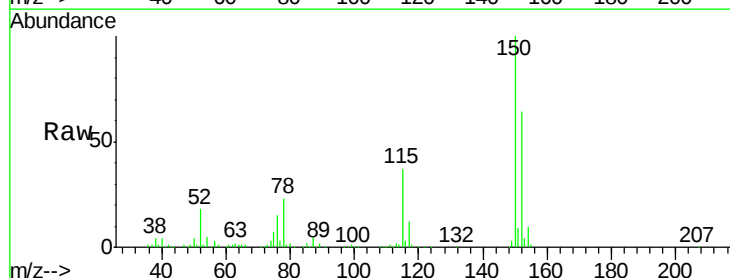
Tgt Ion:152 Resp: 147462

Ion Ratio Lower Upper

152 100

115 57.9 29.7 89.1

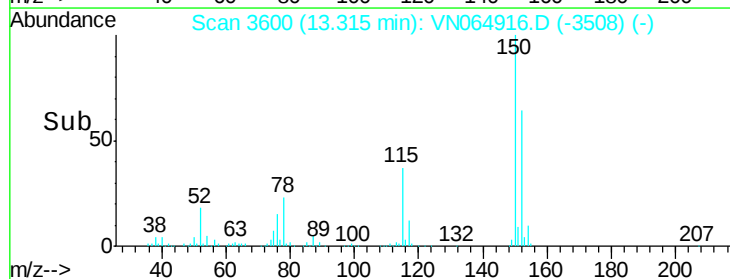
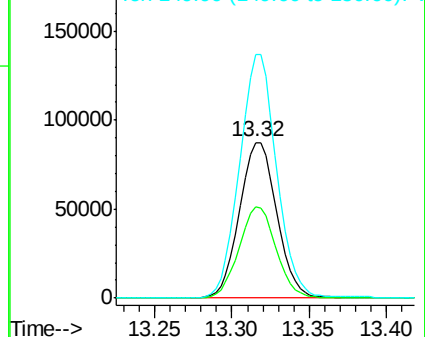
150 154.8 0.0 350.6

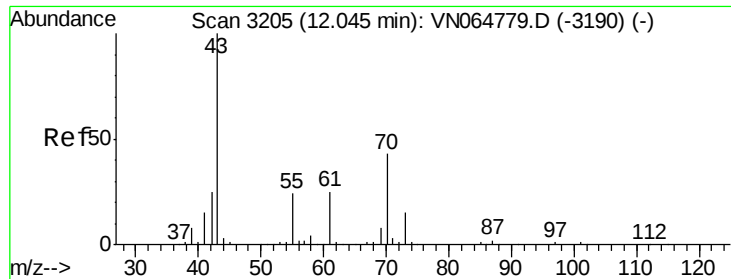


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: 0.372 ug/l

RT: 12.00 min Scan# 3191

Delta R.T. -0.04 min

Lab File: VN064916.D

Acq: 4 Dec 2020 14:05

Instrument :

MSVOA_N

ClientSampled :

PB133386TB

Tot Ion: 43 Resp: 1502

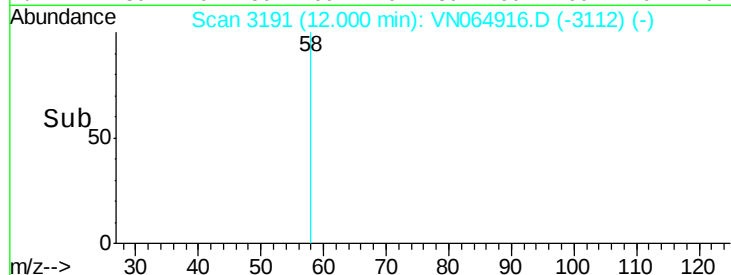
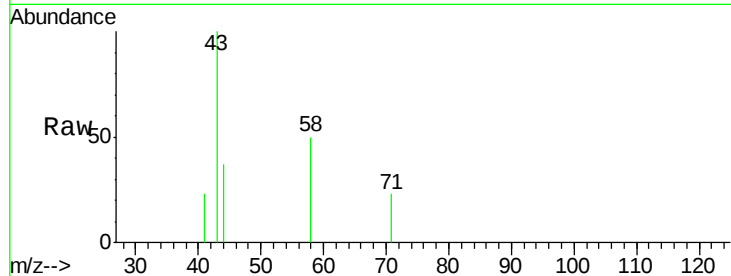
Ion Ratio Lower Upper

43 100

70 0.0 34.5 51.7#

55 0.0 20.4 30.6#

61 0.0 20.0 30.0#

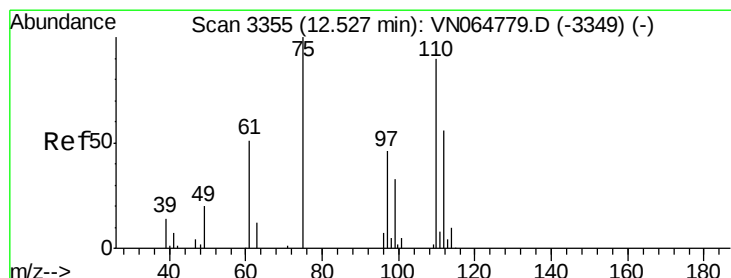
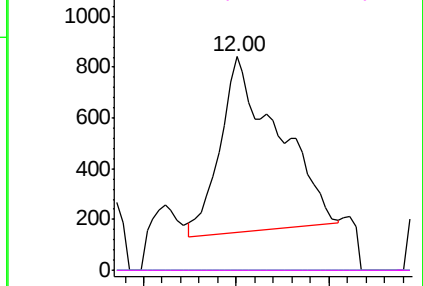


Abundance Ion 43.00 (42.70 to 43.70): VN0

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: 23.161 ug/l

RT: 12.37 min Scan# 3307

Delta R.T. -0.15 min

Lab File: VN064916.D

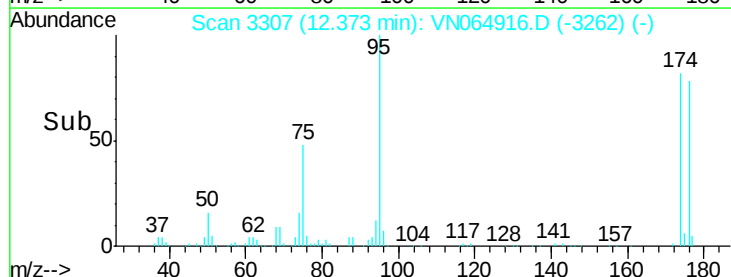
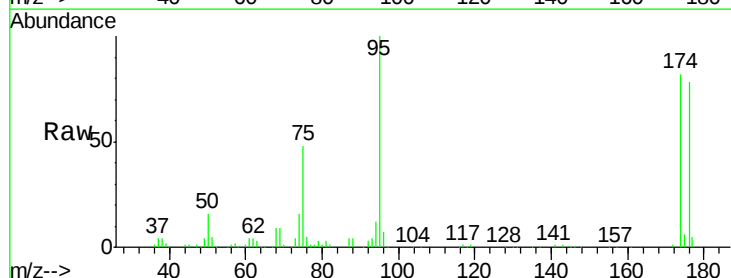
Acq: 4 Dec 2020 14:05

Tgt Ion: 75 Resp: 73552

Ion Ratio Lower Upper

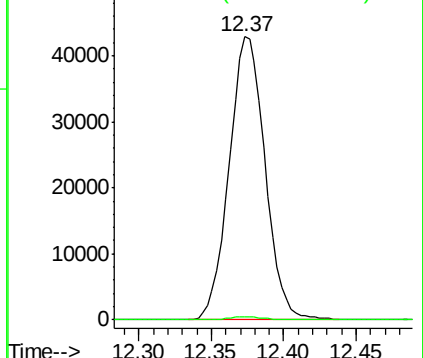
75 100

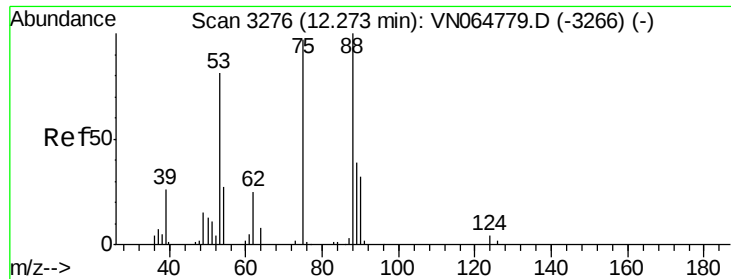
77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0





#81

trans-1,4-Dichloro-2-butene

Concen: 63.478 ug/l

RT: 12.37 min Scan# 3307

Delta R.T. 0.10 min

Lab File: VN064916.D

Acq: 4 Dec 2020 14:05

Instrument :

MSVOA_N

ClientSampleId :

PB133386TB

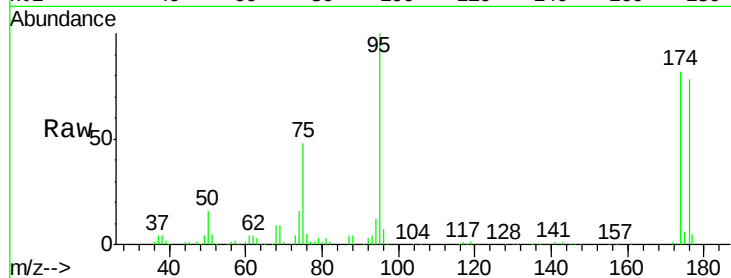
Tot Ion: 75 Resp: 73552

Ion Ratio Lower Upper

75 100

53 0.0 67.0 100.4#

89 0.0 39.6 59.4#



Abundance Ion 74.90 (74.60 to 75.60): VNO
Ion 53.00 (52.70 to 53.70): VNO
Ion 88.90 (88.60 to 89.60): VNO

