

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN102120\
 Data File : VN064233.D
 Acq On : 21 Oct 2020 19:54
 Operator : JC/MD
 Sample : PB132513TB
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB132513TB

Quant Time: Oct 22 01:50:56 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N102120W.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 21 12:48:40 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	258859	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	455029	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	464470	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	209681	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	7.99	65	201636	52.45	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.90%	
35) Dibromofluoromethane	7.55	113	151947	50.23	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.46%	
50) Toluene-d8	10.06	98	571622	52.09	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.18%	
62) 4-Bromofluorobenzene	12.38	95	258501	58.11	ug/l	0.00
Spiked Amount	50.000		Recovery	=	116.22%	

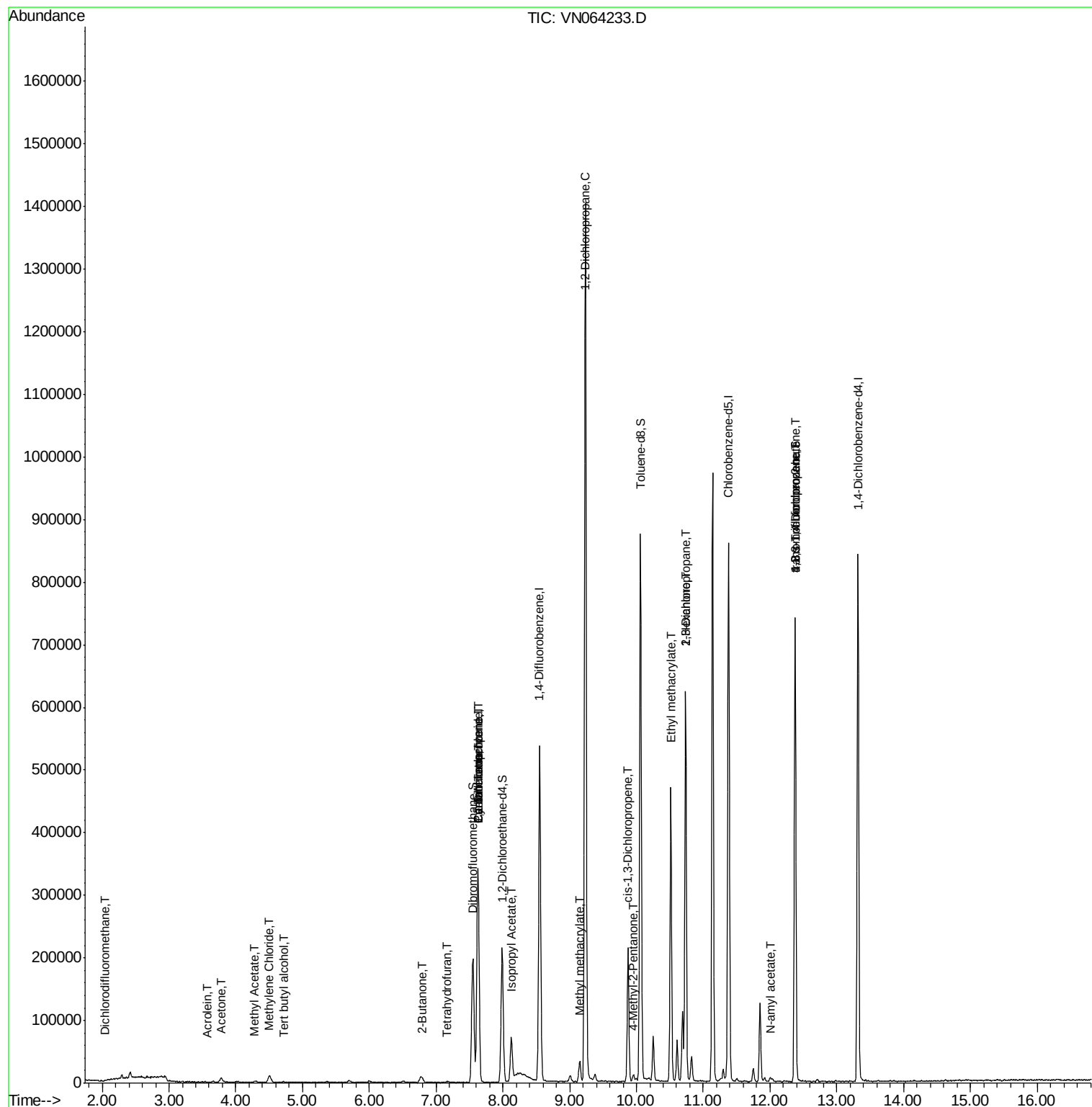
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.04	85	29	0.795	ug/l #	41
11) Tert butyl alcohol	4.71	59	820	1.593	ug/l #	70
13) Acrolein	3.57	56	98	0.303	ug/l #	56
16) Acetone	3.79	43	13539	12.309	ug/l	100
18) Methyl Acetate	4.27	43	3753	1.339	ug/l #	65
20) Methylene Chloride	4.50	84	7330	2.499	ug/l	87
25) 2-Butanone	6.79	43	5415	3.099	ug/l	93
29) Tetrahydrofuran	7.16	42	457	0.437	ug/l #	80
31) Cyclohexane	7.63	56	6356	1.395	ug/l #	1
36) 1,1-Dichloropropene	7.63	75	22159	4.885	ug/l #	47
38) Carbon Tetrachloride	7.63	117	27906	5.407	ug/l #	15
43) Isopropyl Acetate	8.13	43	93626	12.197	ug/l #	88
45) 1,2-Dichloropropane	9.23	63	1525	0.456	ug/l #	45
48) Methyl methacrylate	9.14	41	5241	1.307	ug/l #	17
51) 4-Methyl-2-Pentanone	9.95	43	7959	1.940	ug/l	99
54) cis-1,3-Dichloropropene	9.87	75	37836	6.523	ug/l #	55
56) Ethyl methacrylate	10.51	69	998	0.213	ug/l #	1
57) 1,3-Dichloropropane	10.74	76	5690	1.082	ug/l #	42
59) 2-Hexanone	10.74	43	95274	31.800	ug/l #	54
74) N-amyl acetate	12.00	43	4817	0.697	ug/l #	49
76) 1,2,3-Trichloropropane	12.37	75	138865	31.414	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.37	75	138865	79.312	ug/l #	9

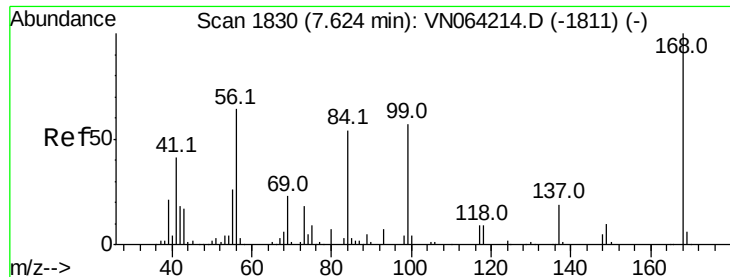
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Oct 22 01:50:56 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N102120W.M
Quant Title : SW846 8260
QLast Update : Wed Oct 21 12:48:40 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. 0.00 min

Lab File: VN064233.D

Acq: 21 Oct 2020 19:54

Instrument :

MSVOA_N

ClientSampleId :

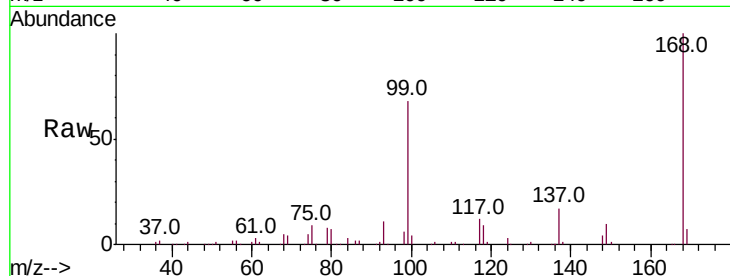
PB132513TB

Tot Ion:168 Resp: 258859

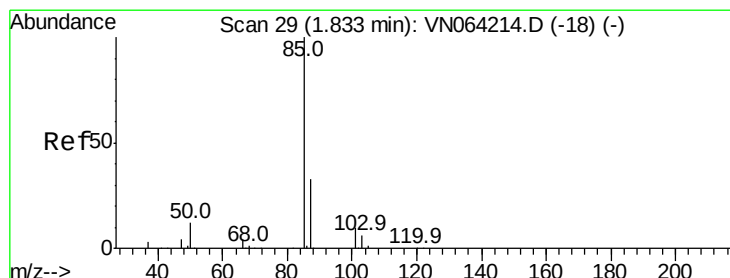
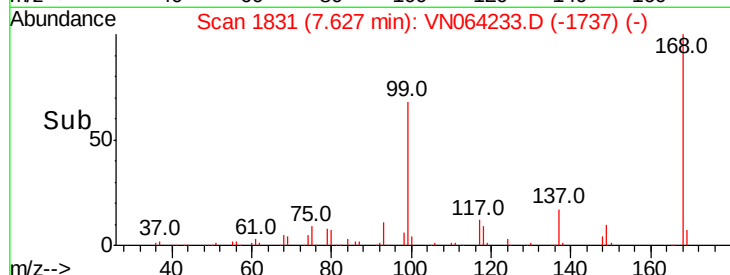
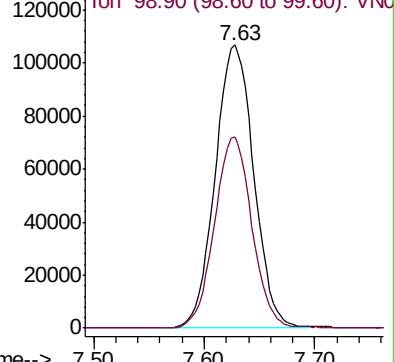
Ion Ratio Lower Upper

168 100

99 67.6 54.0 81.0



Abundance Ion 167.90 (167.60 to 168.60): VN064214.D (-1811) (-)



#2

Dichlorodifluoromethane

Concen: 0.795 ug/l

RT: 2.04 min Scan# 92

Delta R.T. 0.20 min

Lab File: VN064233.D

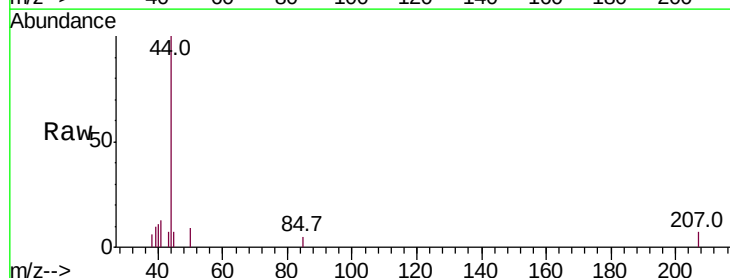
Acq: 21 Oct 2020 19:54

Tgt Ion: 85 Resp: 29

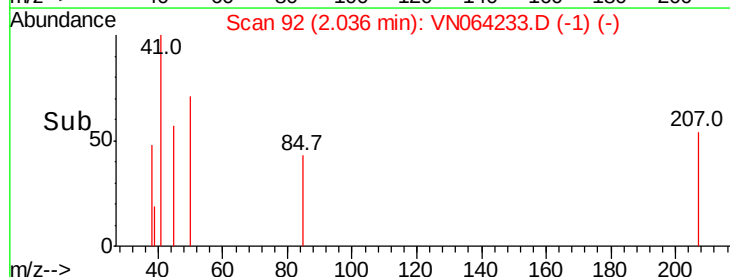
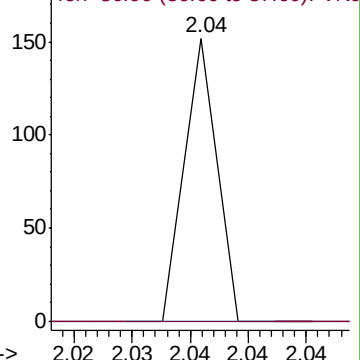
Ion Ratio Lower Upper

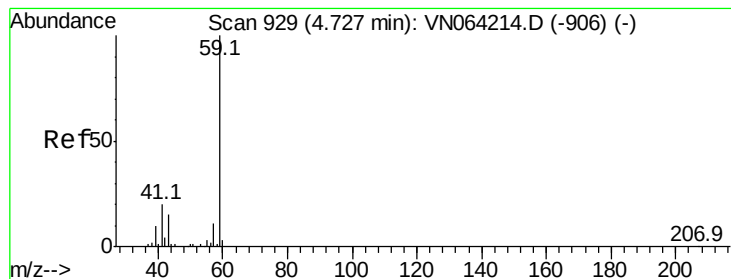
85 100

87 0.0 16.6 49.8#



Abundance Ion 84.90 (84.60 to 85.60): VN064214.D (-18) (-)





#11

Tert butyl alcohol

Concen: 1.593 ug/l

RT: 4.71 min Scan# 924

Delta R.T. -0.02 min

Lab File: VN064233.D

Acq: 21 Oct 2020 19:54

Instrument :

MSVOA_N

ClientSampled :

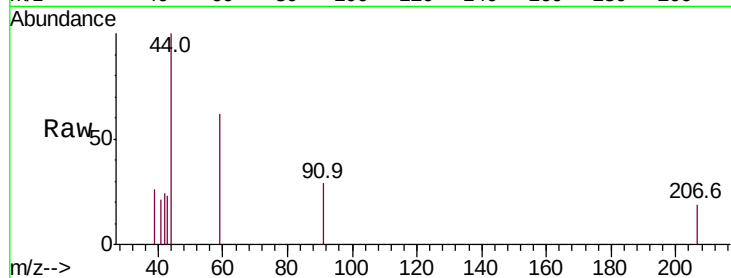
PB132513TB

Tot Ion: 59 Resp: 820

Ion Ratio Lower Upper

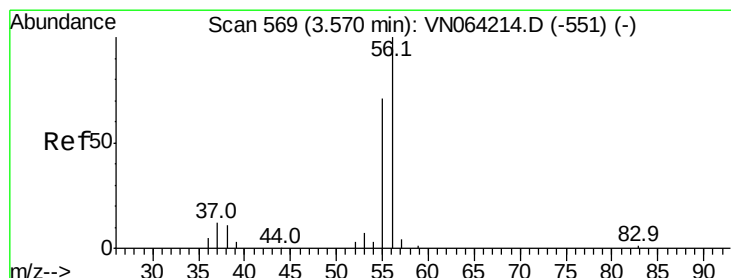
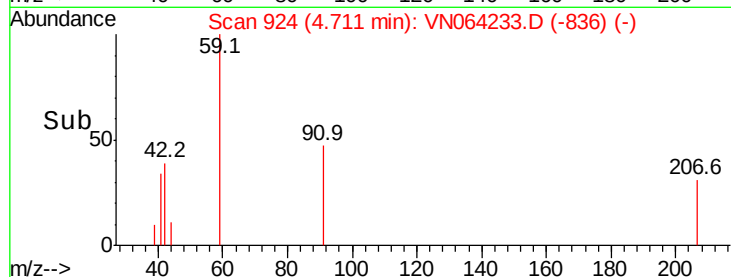
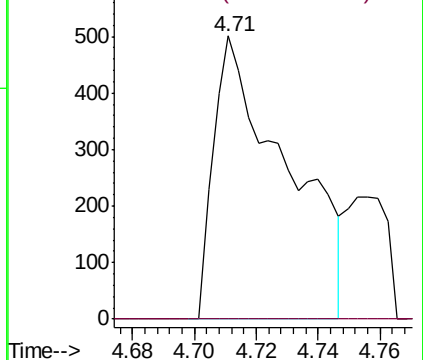
59 100

57 0.0 9.2 13.8#



Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 57.00 (56.70 to 57.70): VN0



#13

Acrolein

Concen: 0.303 ug/l

RT: 3.57 min Scan# 569

Delta R.T. -0.00 min

Lab File: VN064233.D

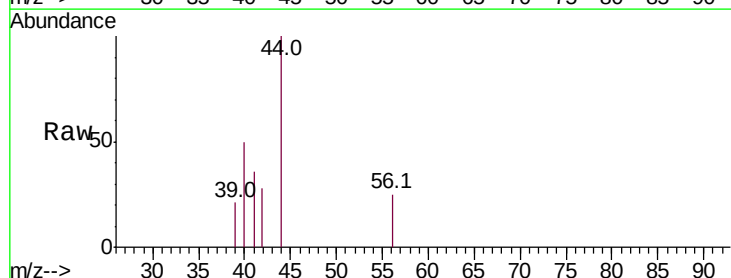
Acq: 21 Oct 2020 19:54

Tgt Ion: 56 Resp: 98

Ion Ratio Lower Upper

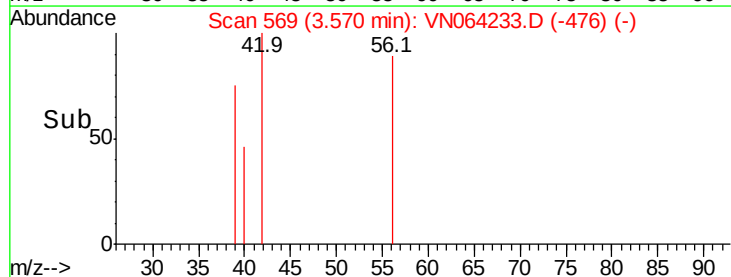
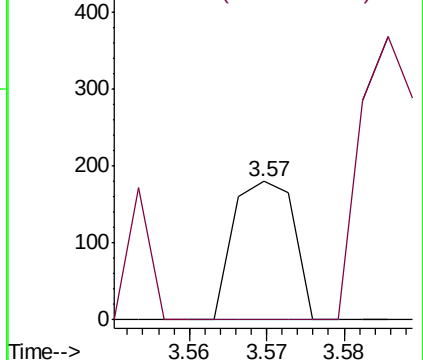
56 100

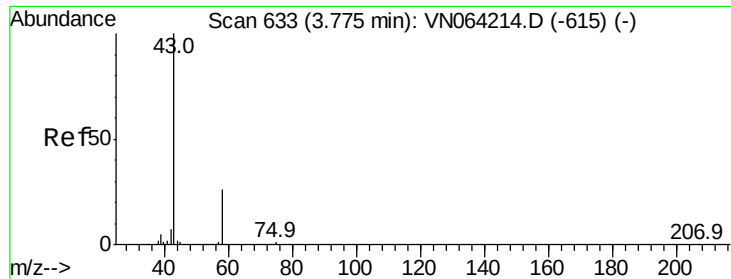
55 33.7 56.1 84.1#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0





#16

Acetone

Concen: 12.309 ug/l

RT: 3.79 min Scan# 636

Delta R.T. 0.01 min

Lab File: VN064233.D

Acq: 21 Oct 2020 19:54

Instrument :

MSVOA_N

ClientSampled :

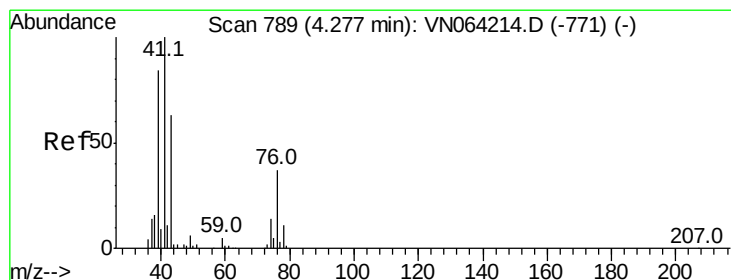
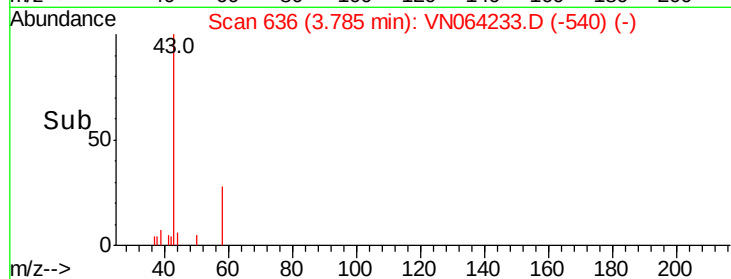
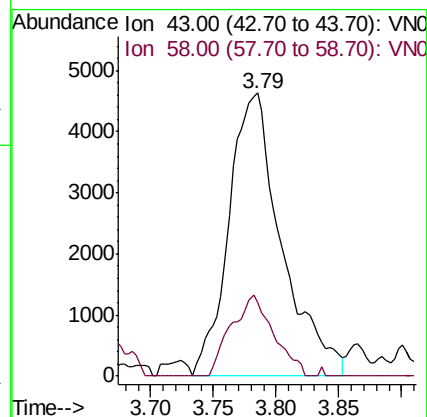
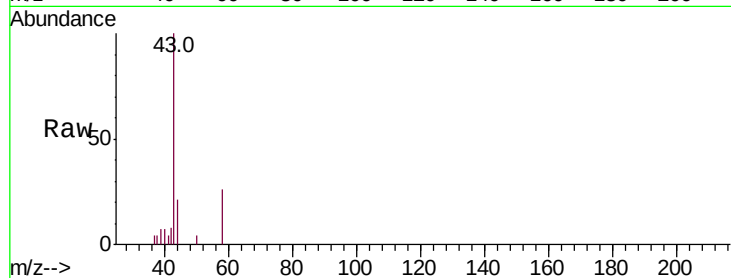
PB132513TB

Tot Ion: 43 Resp: 13539

Ion Ratio Lower Upper

43 100

58 26.2 21.0 31.4



#18

Methyl Acetate

Concen: 1.339 ug/l

RT: 4.27 min Scan# 788

Delta R.T. -0.00 min

Lab File: VN064233.D

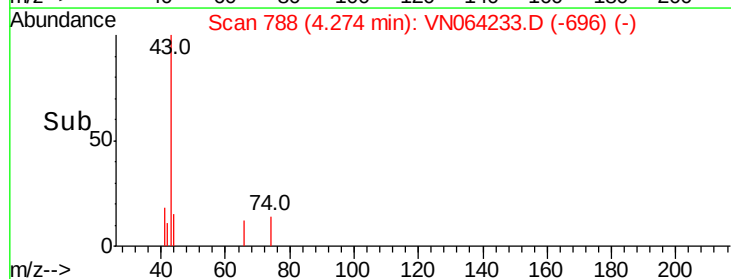
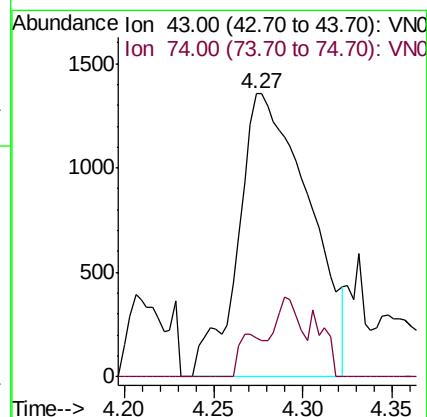
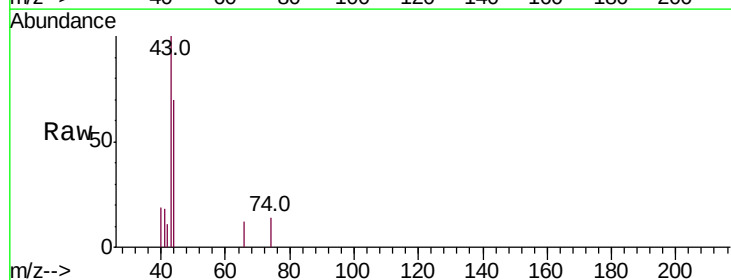
Acq: 21 Oct 2020 19:54

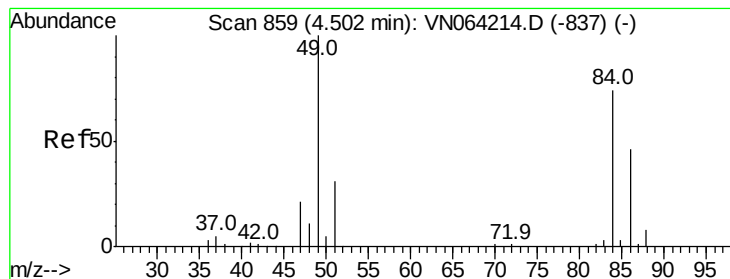
Tgt Ion: 43 Resp: 3753

Ion Ratio Lower Upper

43 100

74 5.6 17.9 26.9#





#20

Methvlene Chloride

Concen: 2.499 ug/l

RT: 4.50 min Scan# 859

Delta R.T. -0.00 min

Lab File: VN064233.D

Acq: 21 Oct 2020 19:54

Instrument :

MSVOA_N

ClientSampled :

PB132513TB

Tot Ion: 84 Resp: 7330

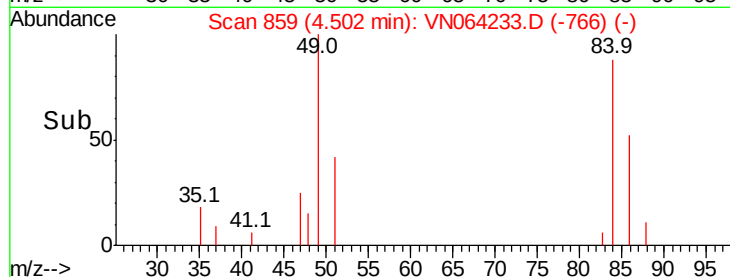
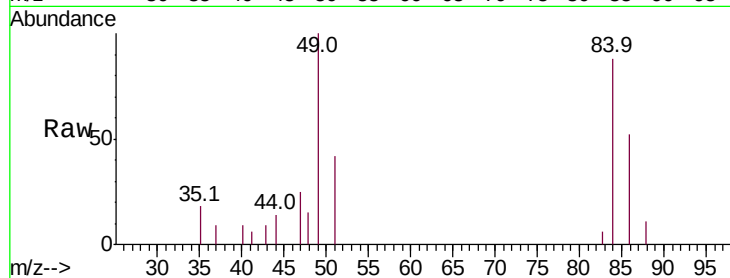
Ion Ratio Lower Upper

84 100

49 113.7 108.5 162.7

51 48.0 33.8 50.8

86 59.6 50.5 75.7

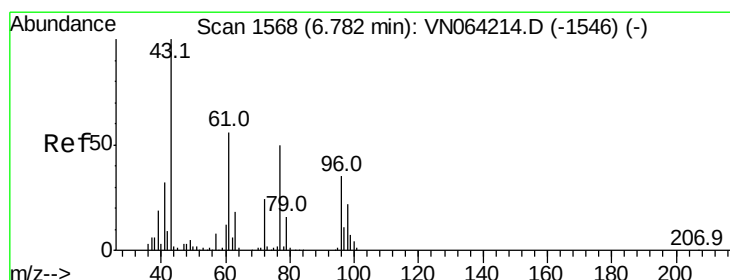
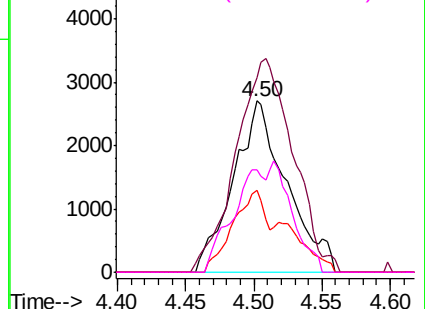


Abundance Ion 83.90 (83.60 to 84.60): VN0

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



#25

2-Butanone

Concen: 3.099 ug/l

RT: 6.79 min Scan# 1572

Delta R.T. 0.01 min

Lab File: VN064233.D

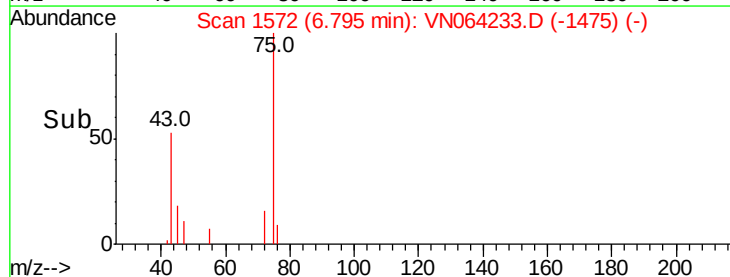
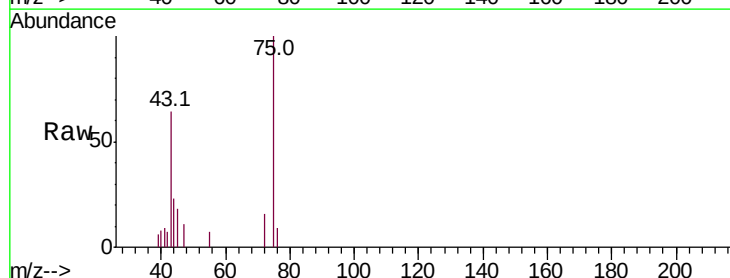
Acq: 21 Oct 2020 19:54

Tgt Ion: 43 Resp: 5415

Ion Ratio Lower Upper

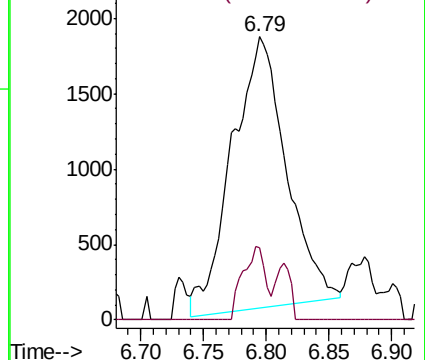
43 100

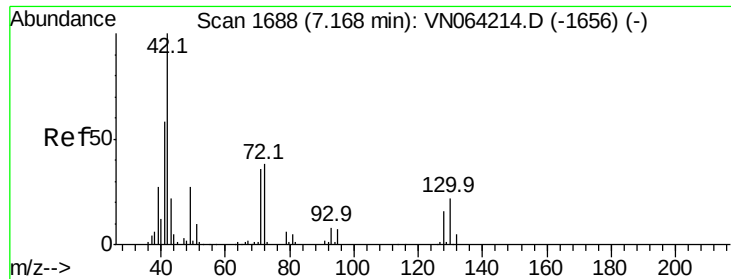
72 27.8 19.4 29.0



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0





#29

Tetrahydrofuran

Concen: 0.437 ug/l

RT: 7.16 min Scan# 1687

Delta R.T. -0.00 min

Lab File: VN064233.D

Acq: 21 Oct 2020 19:54

Instrument :

MSVOA_N

ClientSampled :

PB132513TB

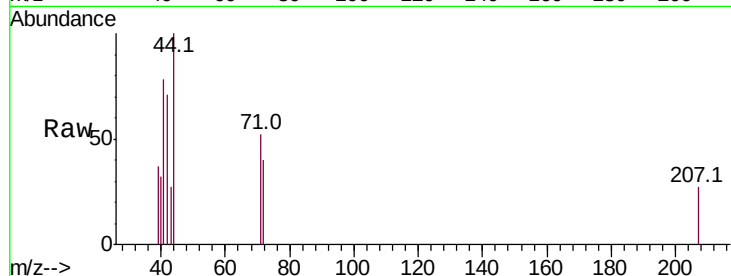
Tot Ion: 42 Resp: 457

Ion Ratio Lower Upper

42 100

72 37.2 30.8 46.2

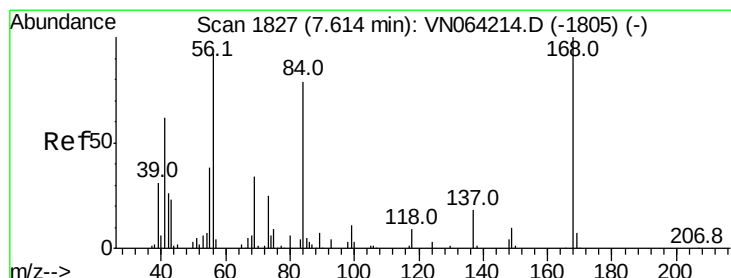
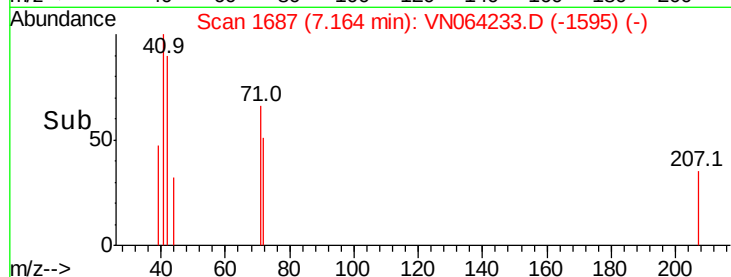
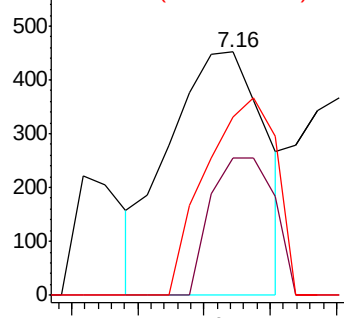
71 59.7 29.0 43.6#



Abundance Ion 42.00 (41.70 to 42.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

Ion 71.00 (70.70 to 71.70): VN0



#31

Cyclohexane

Concen: 1.395 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. 0.01 min

Lab File: VN064233.D

Acq: 21 Oct 2020 19:54

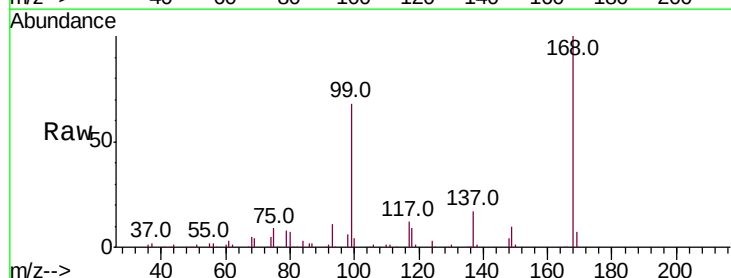
Tgt Ion: 56 Resp: 6356

Ion Ratio Lower Upper

56 100

69 183.0 29.8 44.6#

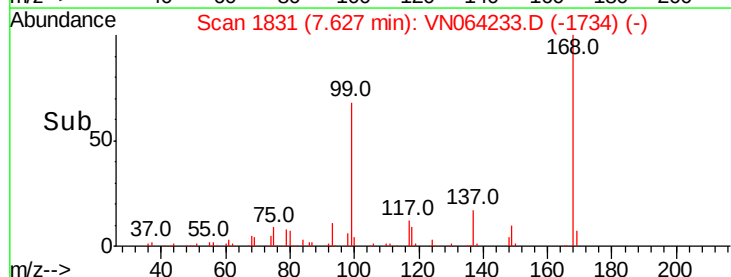
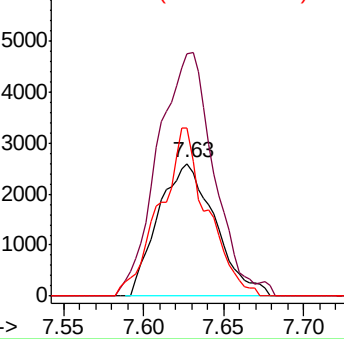
84 127.3 68.1 102.1#

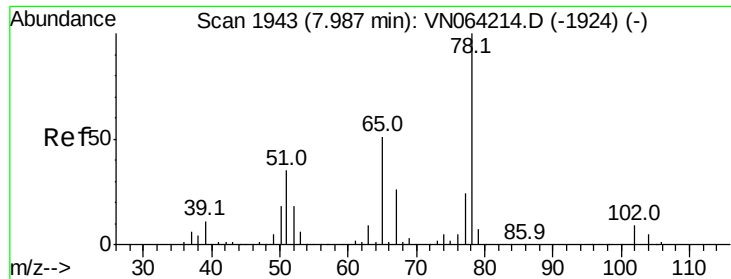


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0

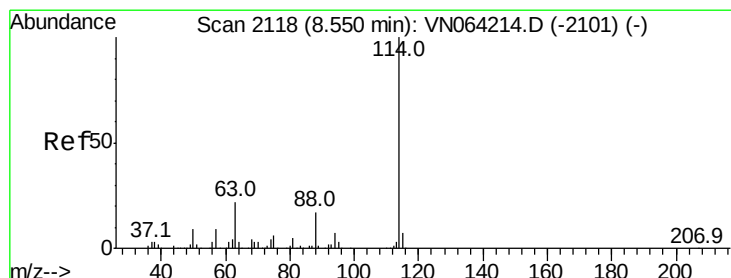
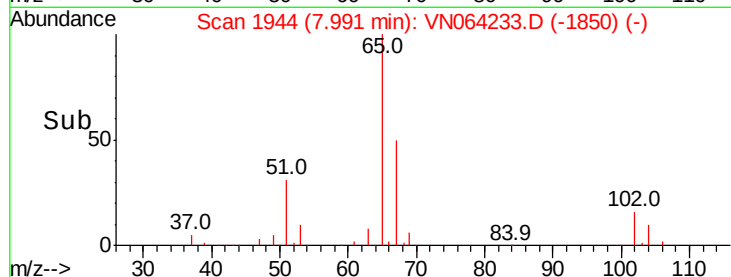
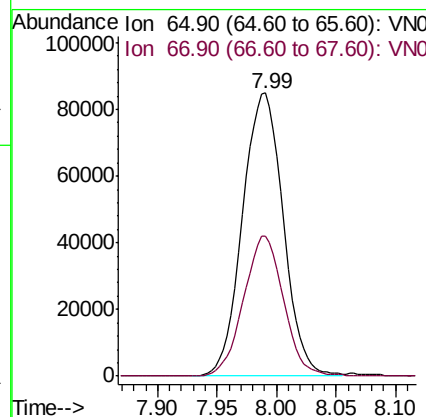
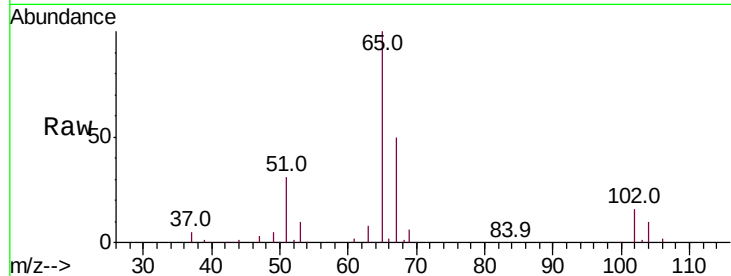




#33
 1,2-Dichloroethane-d4
 Concen: 52.452 ug/l
 RT: 7.99 min Scan# 1944
 Delta R.T. 0.00 min
 Lab File: VN064233.D
 Acq: 21 Oct 2020 19:54

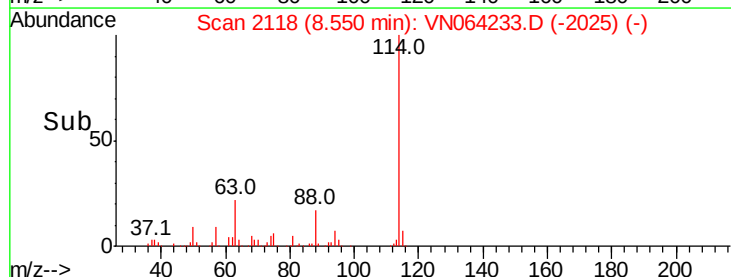
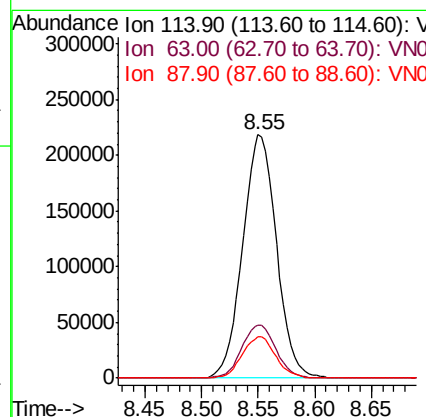
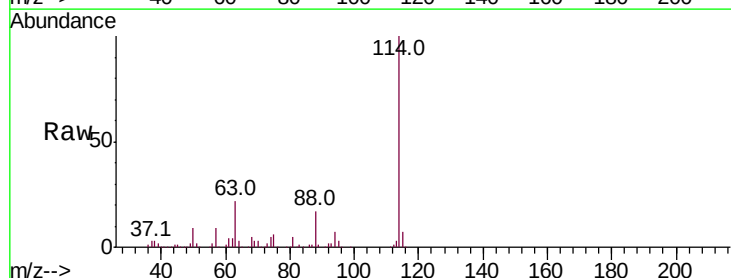
Instrument :
 MSVOA_N
 ClientSampleId :
 PB132513TB

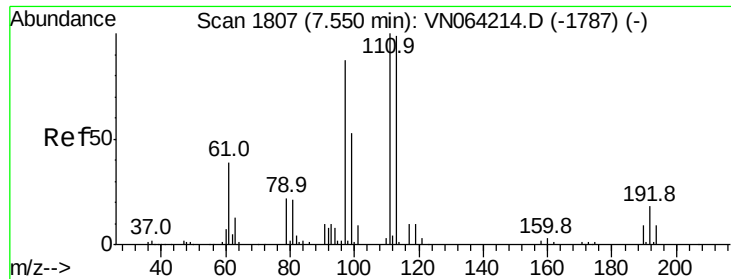
Tot Ion: 65 Resp: 201636
 Ion Ratio Lower Upper
 65 100
 67 48.6 0.0 100.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2118
 Delta R.T. -0.00 min
 Lab File: VN064233.D
 Acq: 21 Oct 2020 19:54

Tgt Ion: 114 Resp: 455029
 Ion Ratio Lower Upper
 114 100
 63 21.9 0.0 44.0
 88 16.9 0.0 34.2

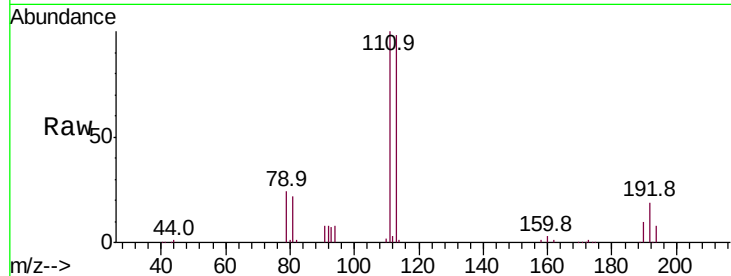




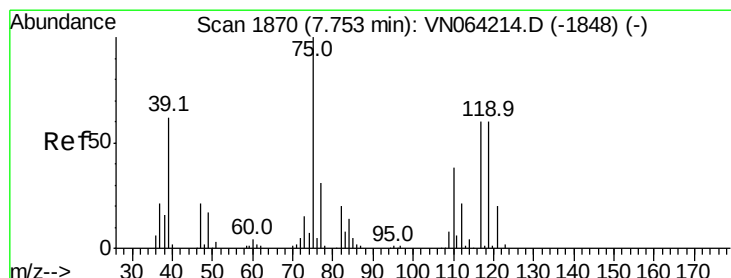
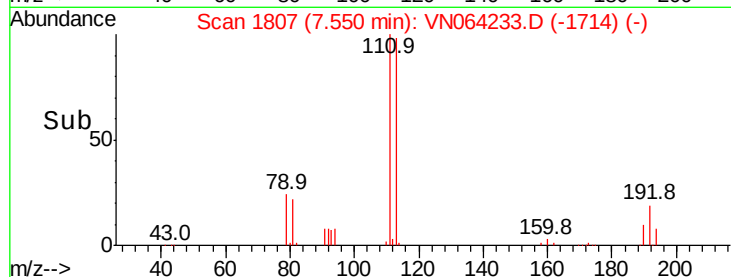
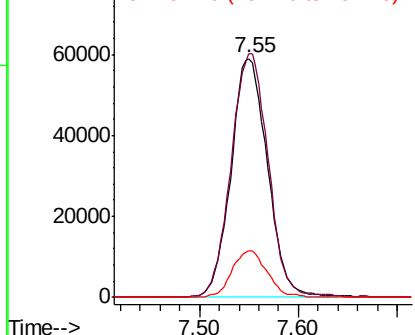
#35
 Dibromofluoromethane
 Concen: 50.226 ug/l
 RT: 7.55 min Scan# 1807
 Delta R.T. -0.00 min
 Lab File: VN064233.D
 Acq: 21 Oct 2020 19:54

Instrument :
 MSVOA_N
 ClientSampleId :
 PB132513TB

Tot Ion	Ratio	Lower	Upper
113	100		
111	103.3	84.2	126.2
192	18.8	15.2	22.8

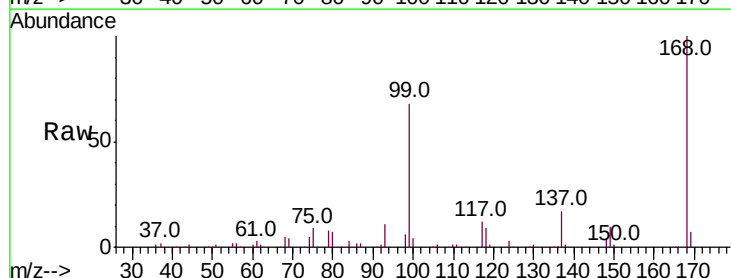


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

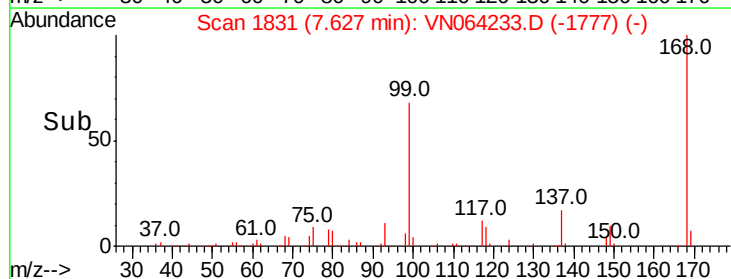
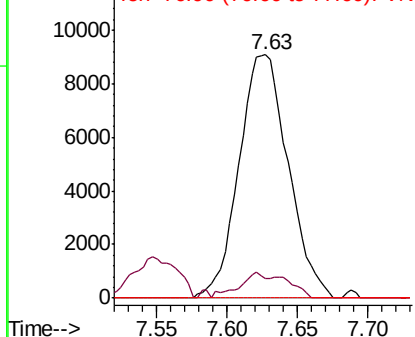


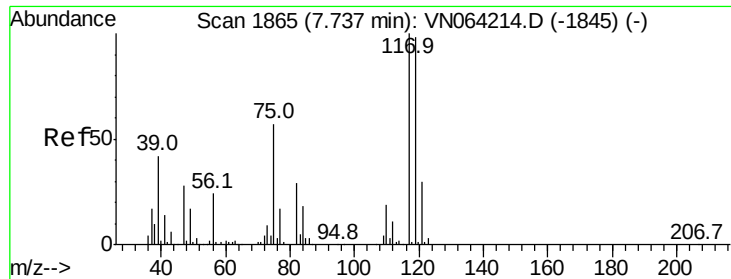
#36
 1,1-Dichloropropene
 Concen: 4.885 ug/l
 RT: 7.63 min Scan# 1831
 Delta R.T. -0.13 min
 Lab File: VN064233.D
 Acq: 21 Oct 2020 19:54

Tgt Ion	Ratio	Lower	Upper
75	100		
110	6.1	17.2	51.6#
77	0.0	24.9	37.3#



Abundance Ion 74.90 (74.60 to 75.60): VNO
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VNO

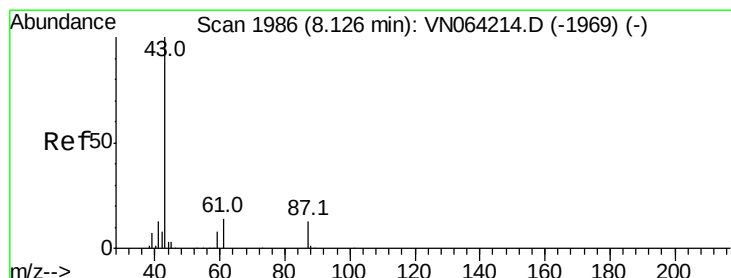
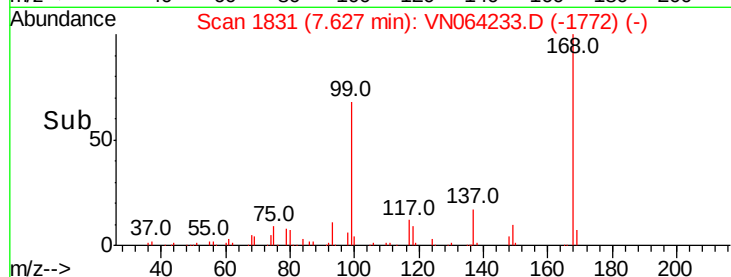
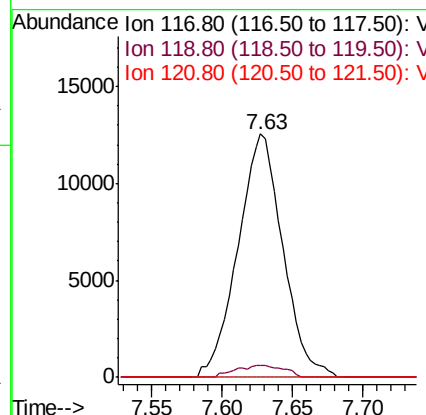
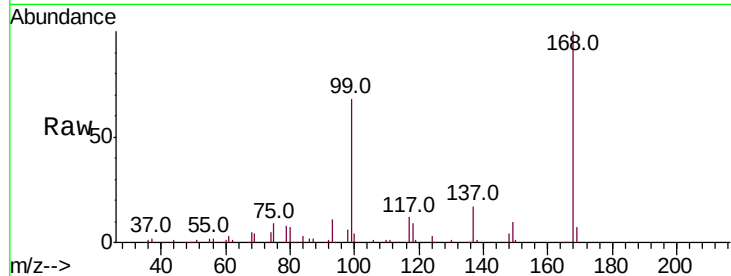




#38
Carbon Tetrachloride
Concen: 5.407 ug/l
RT: 7.63 min Scan# 1831
Delta R.T. -0.11 min
Lab File: VN064233.D
Acq: 21 Oct 2020 19:54

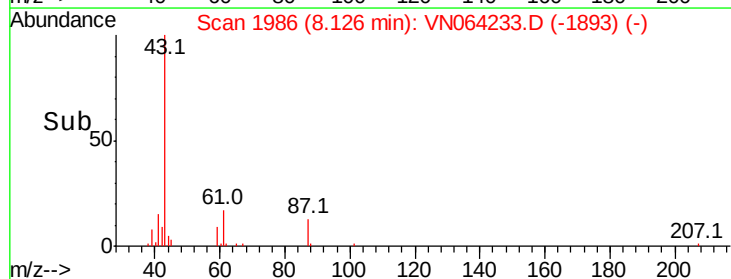
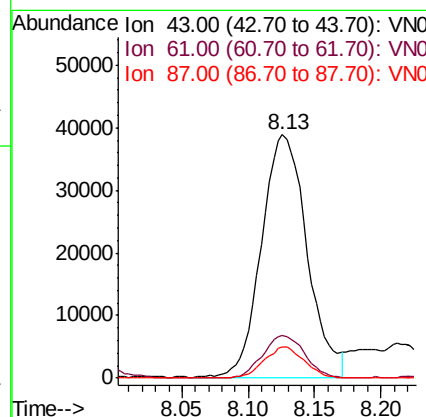
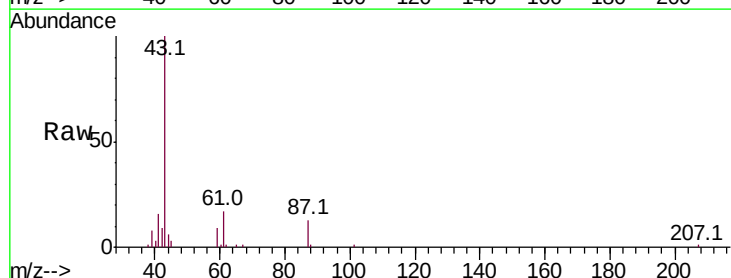
Instrument :
MSVOA_N
ClientSampled :
PB132513TB

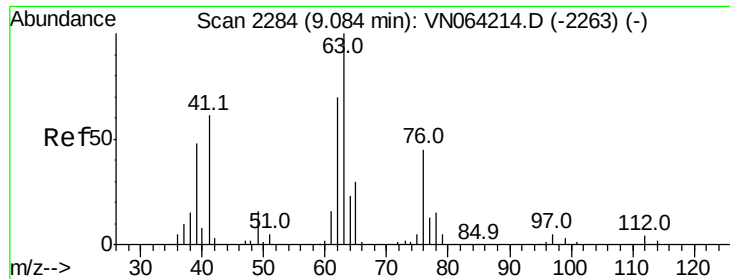
Tot Ion:117 Resp: 27906
Ion Ratio Lower Upper
117 100
119 4.8 78.5 117.7#
121 0.0 24.3 36.5#



#43
Isopropyl Acetate
Concen: 12.197 ug/l
RT: 8.13 min Scan# 1986
Delta R.T. -0.00 min
Lab File: VN064233.D
Acq: 21 Oct 2020 19:54

Tgt Ion: 43 Resp: 93626
Ion Ratio Lower Upper
43 100
61 16.0 19.6 29.4#
87 11.3 9.8 14.6

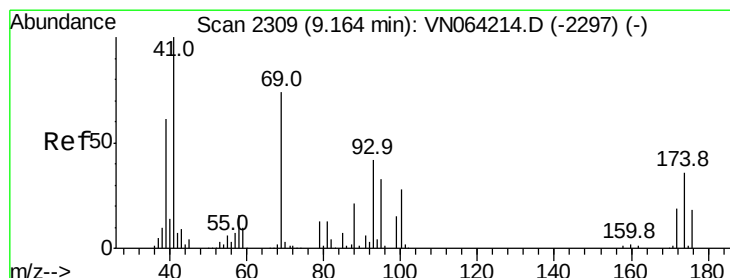
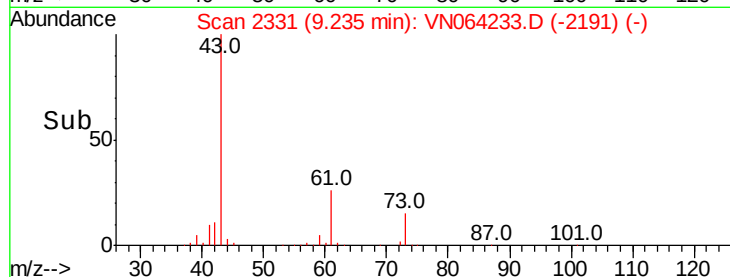
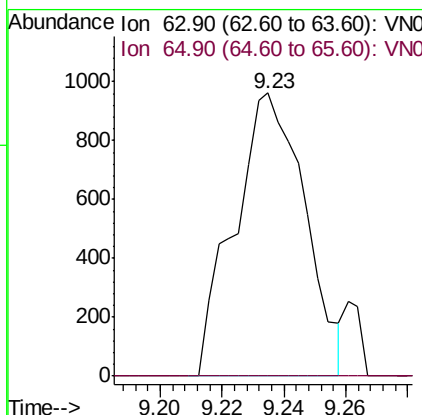
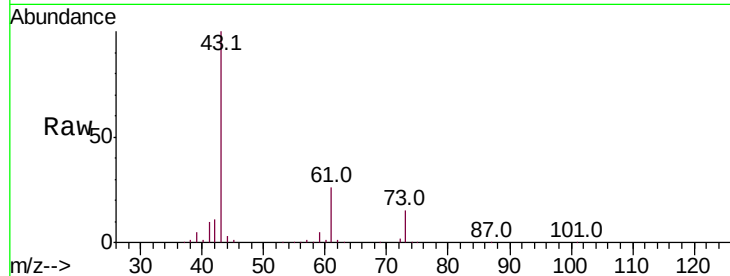




#45
 1,2-Dichloropropane
 Concen: 0.456 ug/l
 RT: 9.23 min Scan# 2331
 Delta R.T. 0.15 min
 Lab File: VN064233.D
 Acq: 21 Oct 2020 19:54

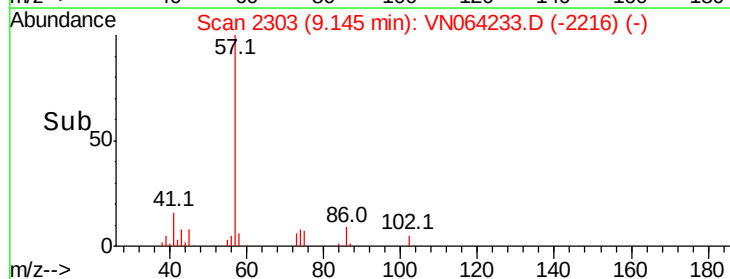
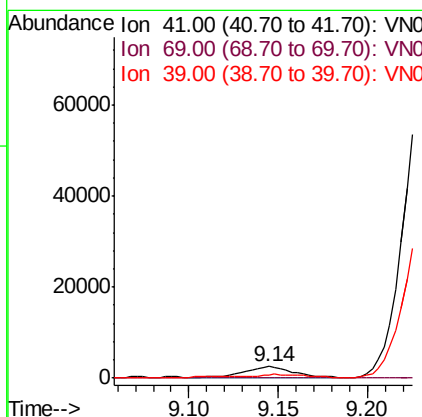
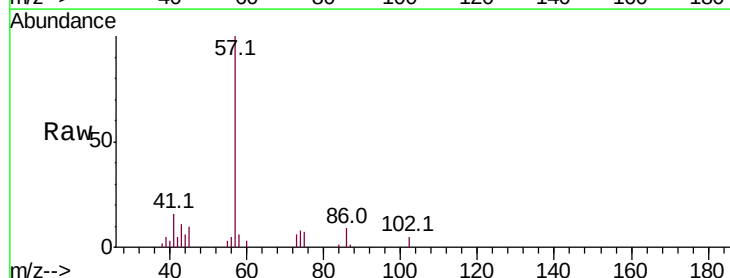
Instrument :
 MSVOA_N
 ClientSampled :
 PB132513TB

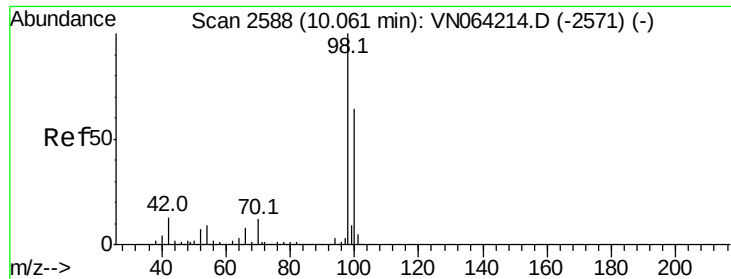
Tot Ion: 63 Resp: 1525
 Ion Ratio Lower Upper
 63 100
 65 0.0 24.0 36.0#



#48
 Methyl methacrylate
 Concen: 1.307 ug/l
 RT: 9.14 min Scan# 2303
 Delta R.T. -0.02 min
 Lab File: VN064233.D
 Acq: 21 Oct 2020 19:54

Tgt Ion: 41 Resp: 5241
 Ion Ratio Lower Upper
 41 100
 69 0.0 57.3 85.9#
 39 0.0 48.6 73.0#

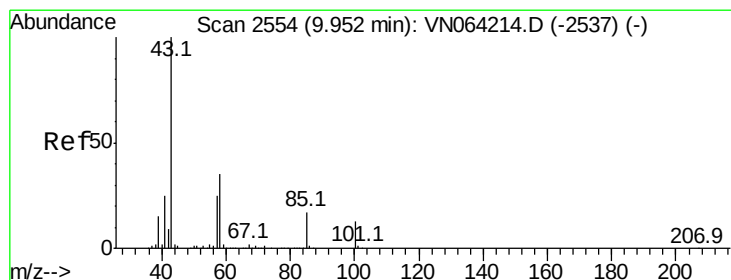
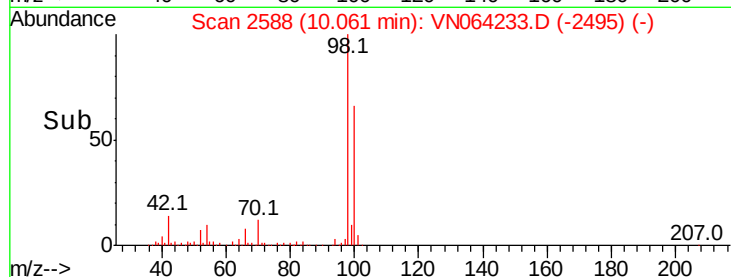
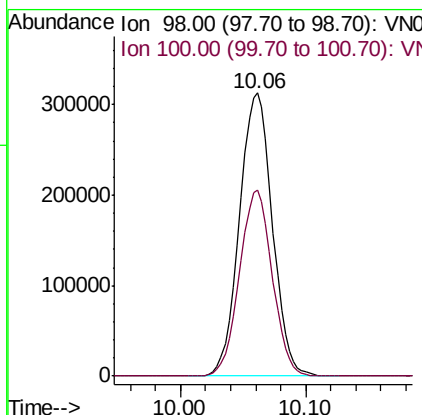
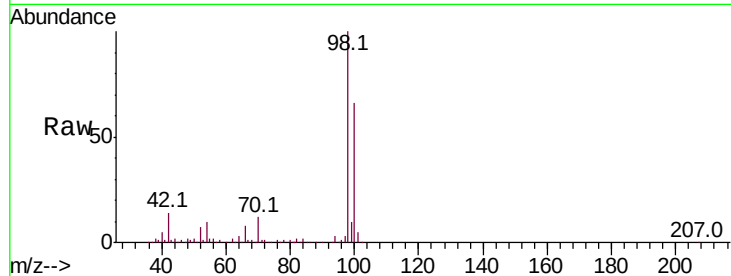




#50
Toluene-d8
Concen: 52.088 ug/l
RT: 10.06 min Scan# 2588
Delta R.T. -0.00 min
Lab File: VN064233.D
Acq: 21 Oct 2020 19:54

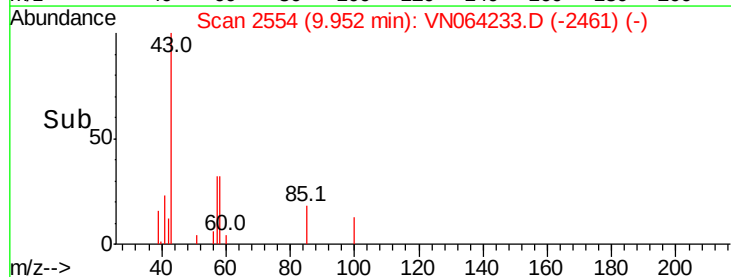
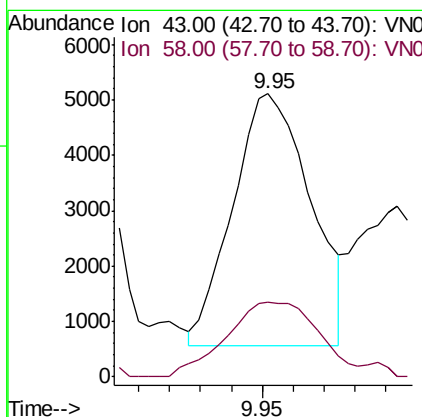
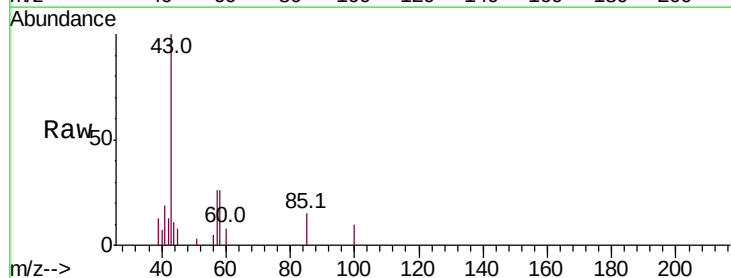
Instrument :
MSVOA_N
ClientSampleId :
PB132513TB

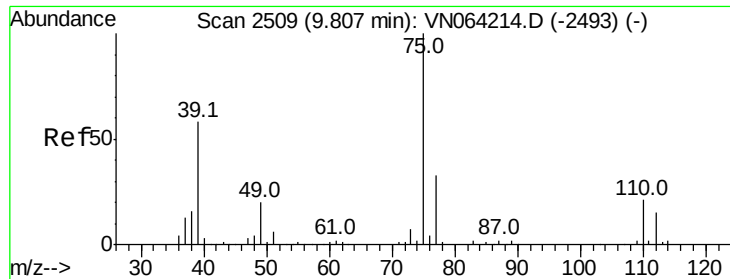
Tot Ion: 98 Resp: 571622
Ion Ratio Lower Upper
98 100
100 65.2 50.8 76.2



#51
4-Methyl-2-Pentanone
Concen: 1.940 ug/l
RT: 9.95 min Scan# 2554
Delta R.T. -0.00 min
Lab File: VN064233.D
Acq: 21 Oct 2020 19:54

Tgt Ion: 43 Resp: 7959
Ion Ratio Lower Upper
43 100
58 35.3 28.6 42.8



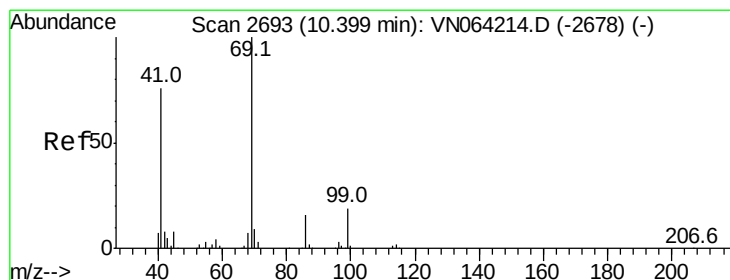
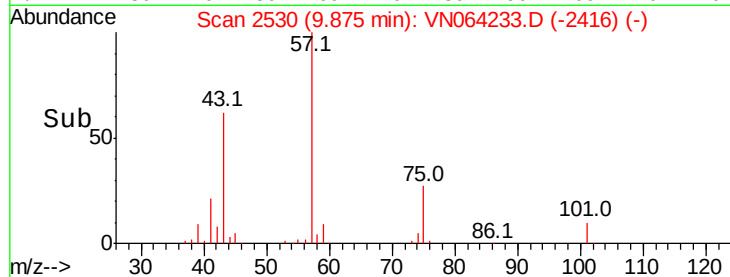
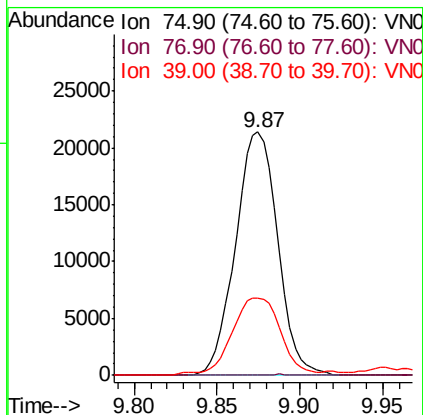
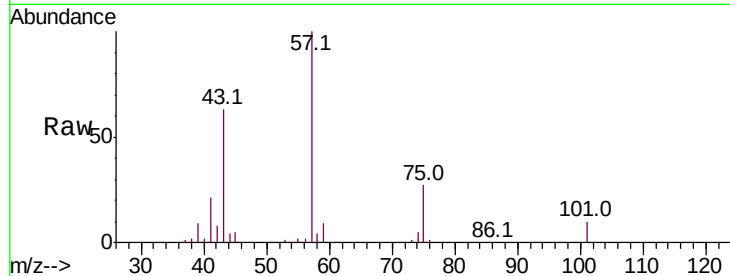


#54

cis-1,3-Dichloropropene
 Concen: 6.523 ug/l
 RT: 9.87 min Scan# 2530
 Delta R.T. 0.07 min
 Lab File: VN064233.D
 Acq: 21 Oct 2020 19:54

Instrument :
 MSVOA_N
 ClientSampled :
 PB132513TB

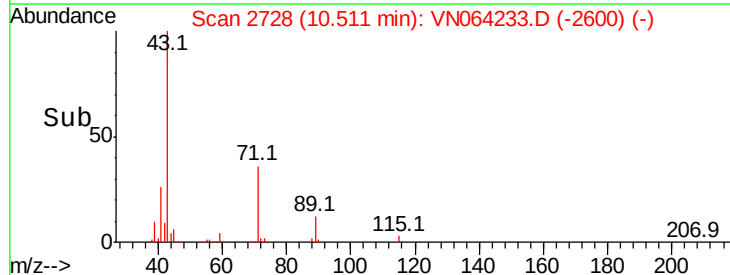
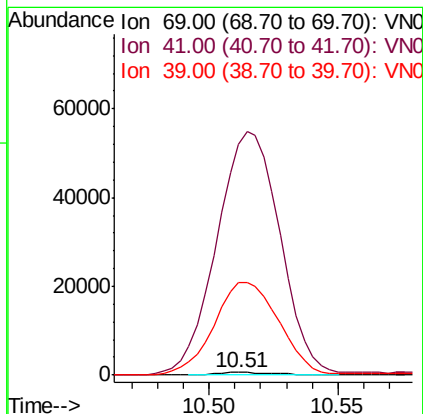
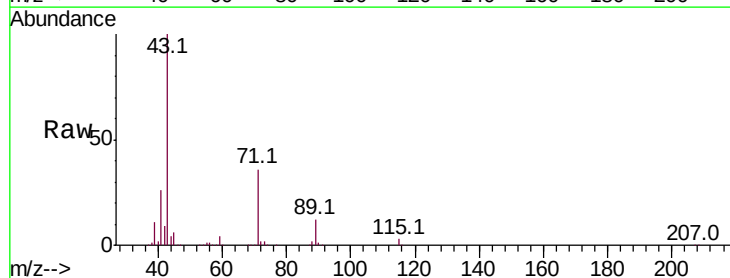
Tot Ion: 75 Resp: 37836
 Ion Ratio Lower Upper
 75 100
 77 0.0 26.6 39.8#
 39 30.3 46.7 70.1#

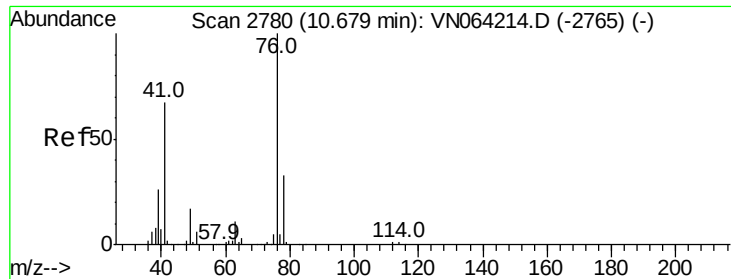


#56

Ethyl methacrylate
 Concen: 0.213 ug/l
 RT: 10.51 min Scan# 2728
 Delta R.T. 0.11 min
 Lab File: VN064233.D
 Acq: 21 Oct 2020 19:54

Tgt Ion: 69 Resp: 998
 Ion Ratio Lower Upper
 69 100
 41 9444.8 61.4 92.2#
 39 3688.9 36.0 54.0#

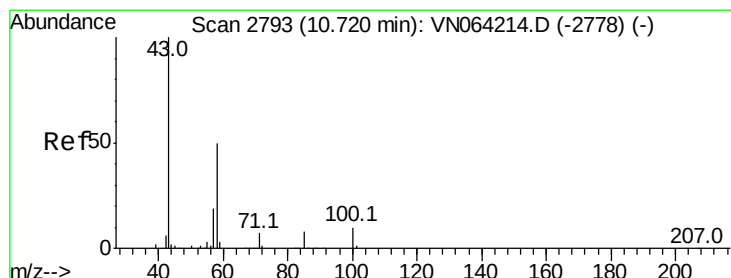
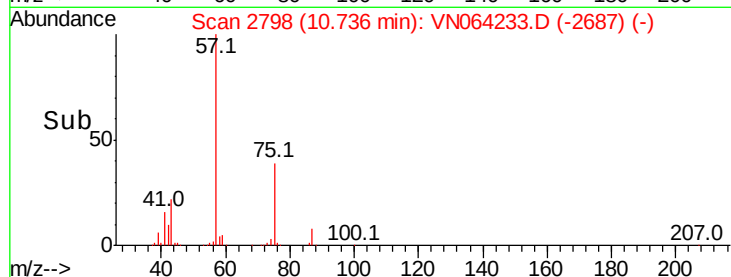
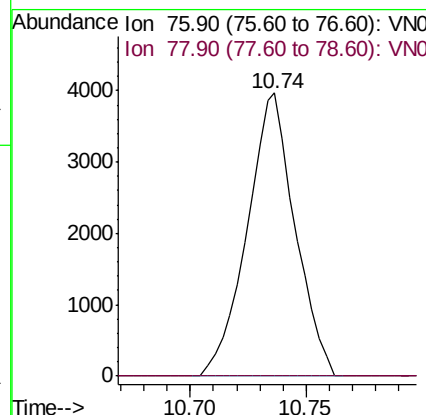
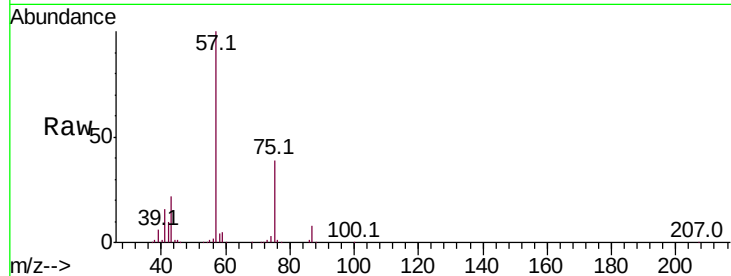




#57
 1,3-Dichloropropane
 Concen: 1.082 ug/l
 RT: 10.74 min Scan# 2798
 Delta R.T. 0.06 min
 Lab File: VN064233.D
 Acq: 21 Oct 2020 19:54

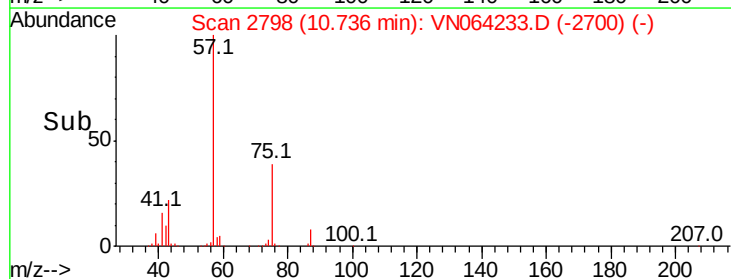
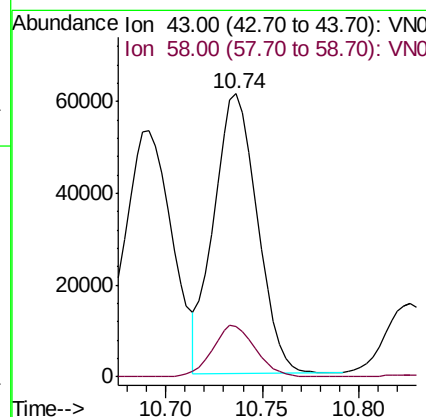
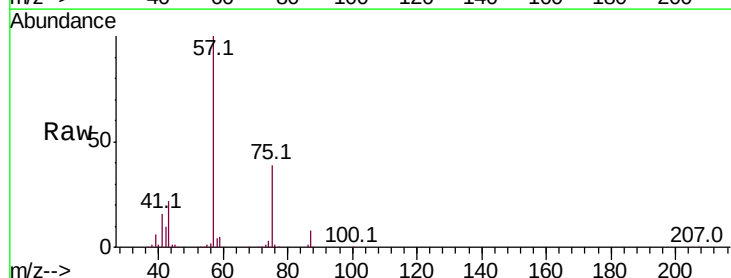
Instrument :
 MSVOA_N
 ClientSampleId :
 PB132513TB

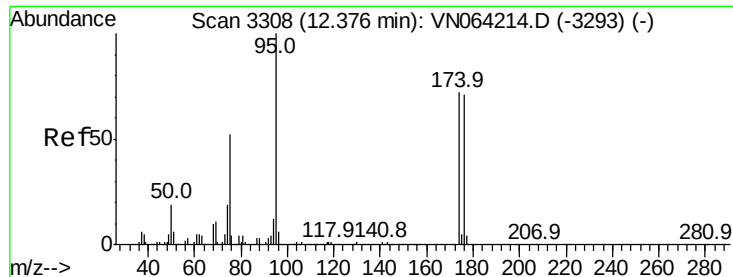
Tot Ion: 76 Resp: 5690
 Ion Ratio Lower Upper
 76 100
 78 0.0 26.2 39.2#



#59
 2-Hexanone
 Concen: 31.800 ug/l
 RT: 10.74 min Scan# 2798
 Delta R.T. 0.02 min
 Lab File: VN064233.D
 Acq: 21 Oct 2020 19:54

Tgt Ion: 43 Resp: 95274
 Ion Ratio Lower Upper
 43 100
 58 18.3 24.8 74.3#





#62

4-Bromofluorobenzene

Concen: 58.106 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.00 min

Lab File: VN064233.D

Acq: 21 Oct 2020 19:54

Instrument :

MSVOA_N

ClientSampled :

PB132513TB

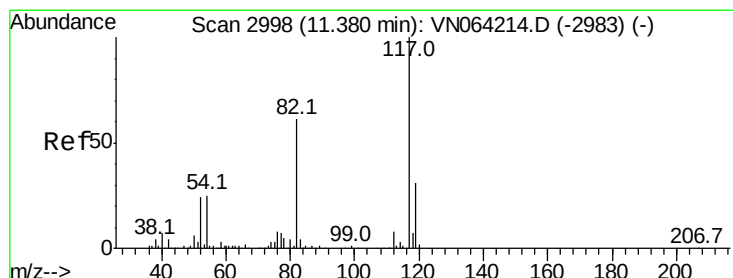
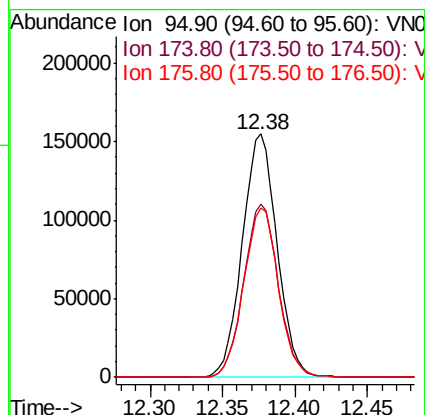
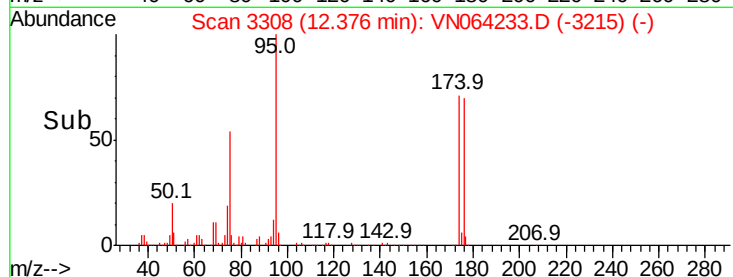
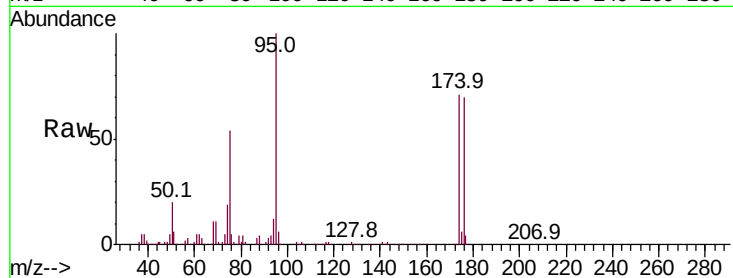
Tot Ion: 95 Resp: 258501

Ion Ratio Lower Upper

95 100

174 71.0 0.0 144.4

176 69.6 0.0 139.2



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.38 min Scan# 2998

Delta R.T. -0.00 min

Lab File: VN064233.D

Acq: 21 Oct 2020 19:54

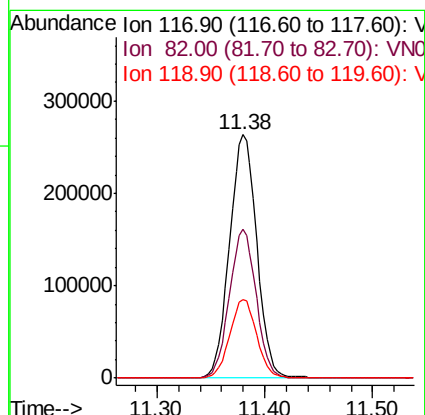
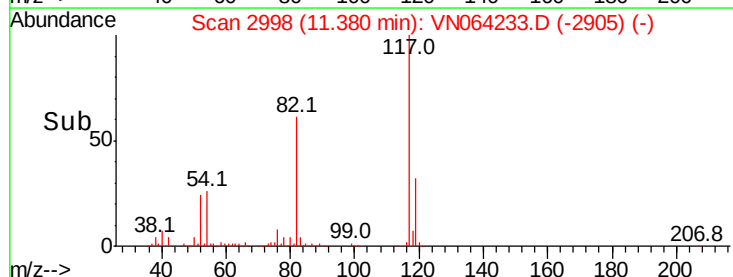
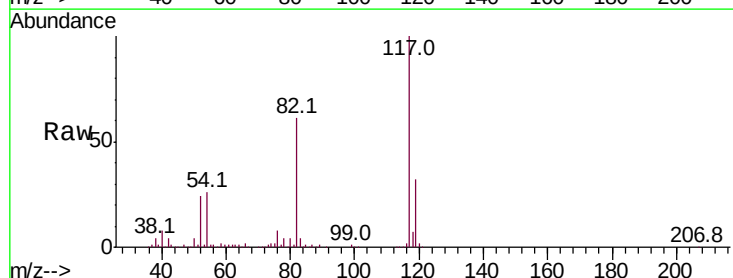
Tgt Ion: 117 Resp: 464470

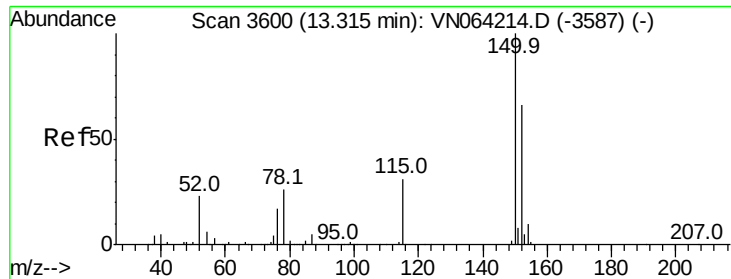
Ion Ratio Lower Upper

117 100

82 61.0 48.8 73.2

119 32.4 24.7 37.1





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3600

Delta R.T. -0.00 min

Lab File: VN064233.D

Acq: 21 Oct 2020 19:54

Instrument :

MSVOA_N

ClientSampleId :

PB132513TB

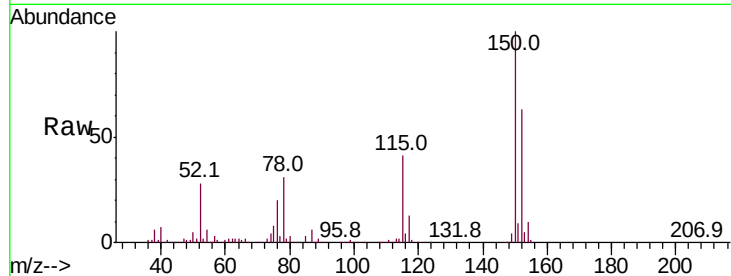
Tot Ion:152 Resp: 209681

Ion Ratio Lower Upper

152 100

115 63.3 32.0 96.2

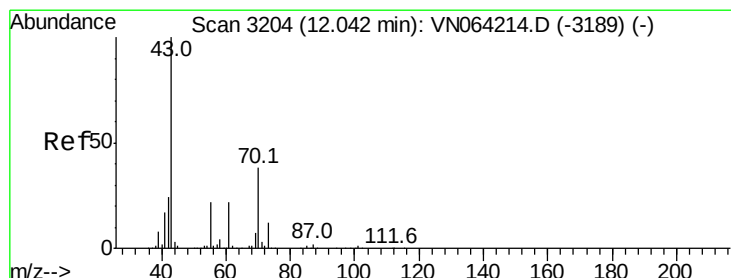
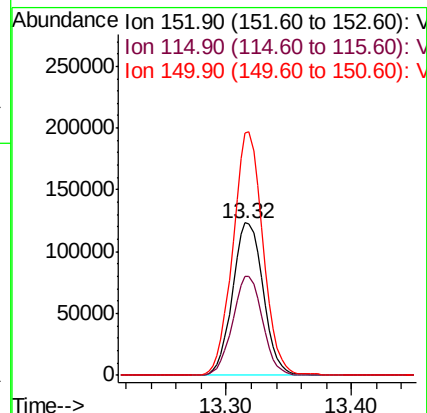
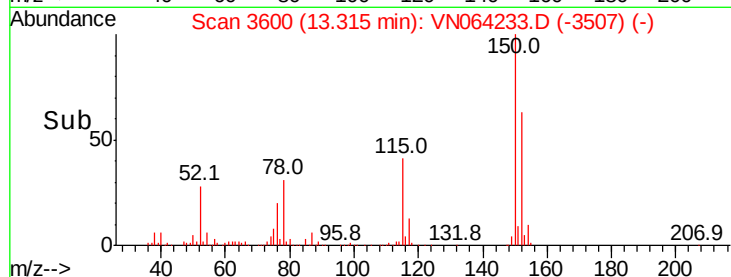
150 156.2 0.0 356.6



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-ethyl acetate

Concen: 0.697 ug/l

RT: 12.00 min Scan# 3191

Delta R.T. -0.04 min

Lab File: VN064233.D

Acq: 21 Oct 2020 19:54

Tgt Ion: 43 Resp: 4817

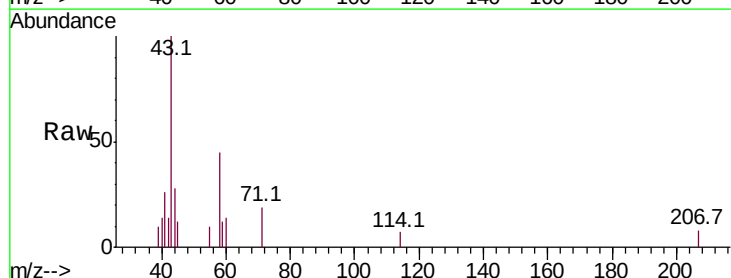
Ion Ratio Lower Upper

43 100

70 0.0 30.2 45.4#

55 4.4 18.0 27.0#

61 0.0 17.4 26.2#

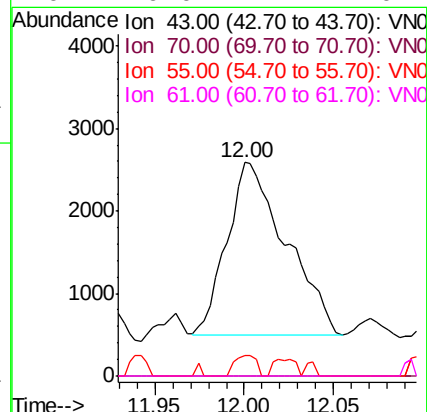
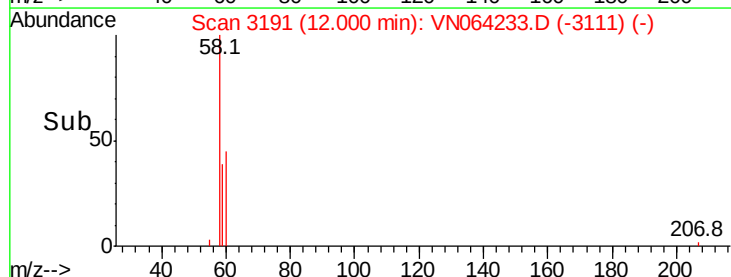


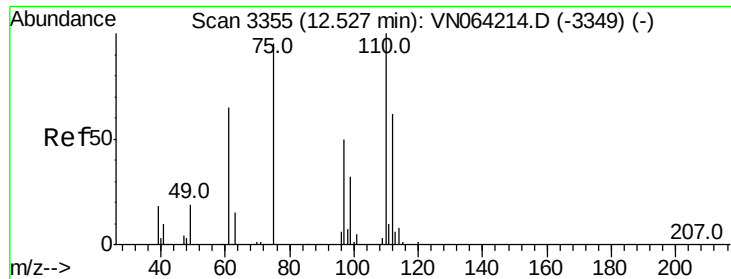
Abundance Ion 43.00 (42.70 to 43.70): V

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: 31.414 ug/l

RT: 12.37 min Scan# 3307

Delta R.T. -0.15 min

Lab File: VN064233.D

Acq: 21 Oct 2020 19:54

Instrument :

MSVOA_N

ClientSampleId :

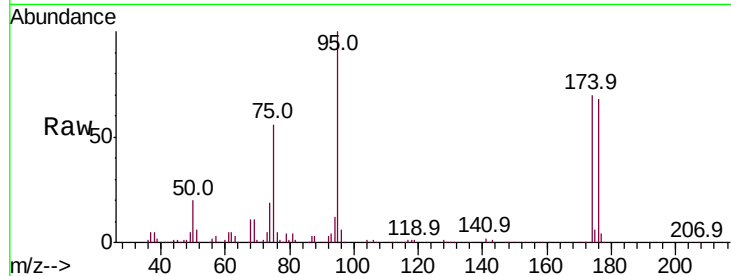
PB132513TB

Tot Ion: 75 Resp: 138865

Ion Ratio Lower Upper

75 100

77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 77.00 (76.70 to 77.70): VNO

12.37

80000

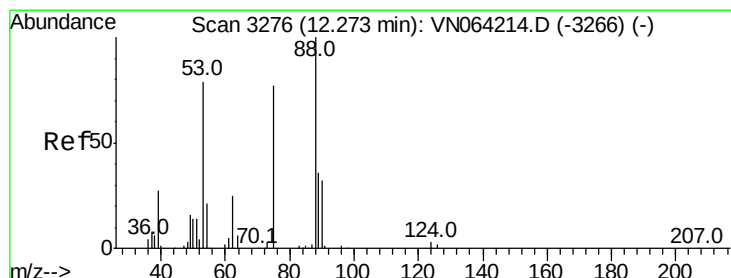
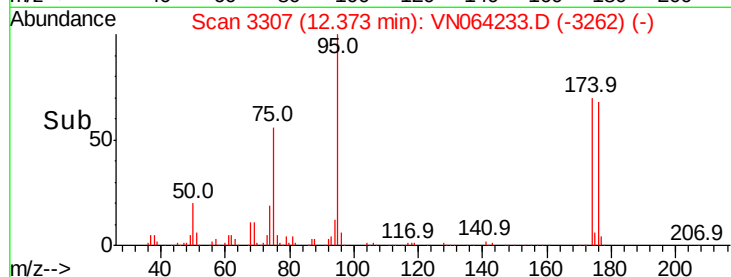
60000

40000

20000

0

Time--> 12.30 12.35 12.40 12.45



#81

trans-1,4-Dichloro-2-butene

Concen: 79.312 ug/l

RT: 12.37 min Scan# 3307

Delta R.T. 0.10 min

Lab File: VN064233.D

Acq: 21 Oct 2020 19:54

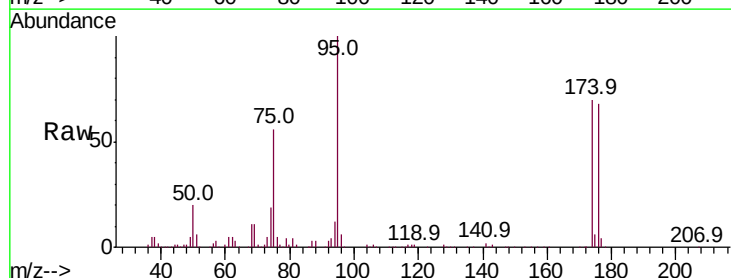
Tgt Ion: 75 Resp: 138865

Ion Ratio Lower Upper

75 100

53 0.0 81.0 121.4#

89 0.0 38.7 58.1#



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

12.37

80000

60000

40000

20000

0

Time--> 12.30 12.35 12.40 12.45

