

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN081720\
 Data File : VN062986.D
 Acq On : 17 Aug 2020 22:20
 Operator : JC/MD
 Sample : L3500-08
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 CL-02-081420

Quant Time: Aug 18 05:54:37 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N081720W.M
 Quant Title : SW846 8260
 QLast Update : Mon Aug 17 17:31:03 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	225557	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	385439	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	420240	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	154332	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	154737	64.76	ug/l	0.00
Spiked Amount			Recovery	=	129.52%	
35) Dibromofluoromethane	7.55	113	130168	51.85	ug/l	0.00
Spiked Amount			Recovery	=	103.70%	
50) Toluene-d8	10.06	98	517930	53.16	ug/l	0.00
Spiked Amount			Recovery	=	106.32%	
62) 4-Bromofluorobenzene	12.38	95	178932	51.11	ug/l	0.00
Spiked Amount			Recovery	=	102.22%	

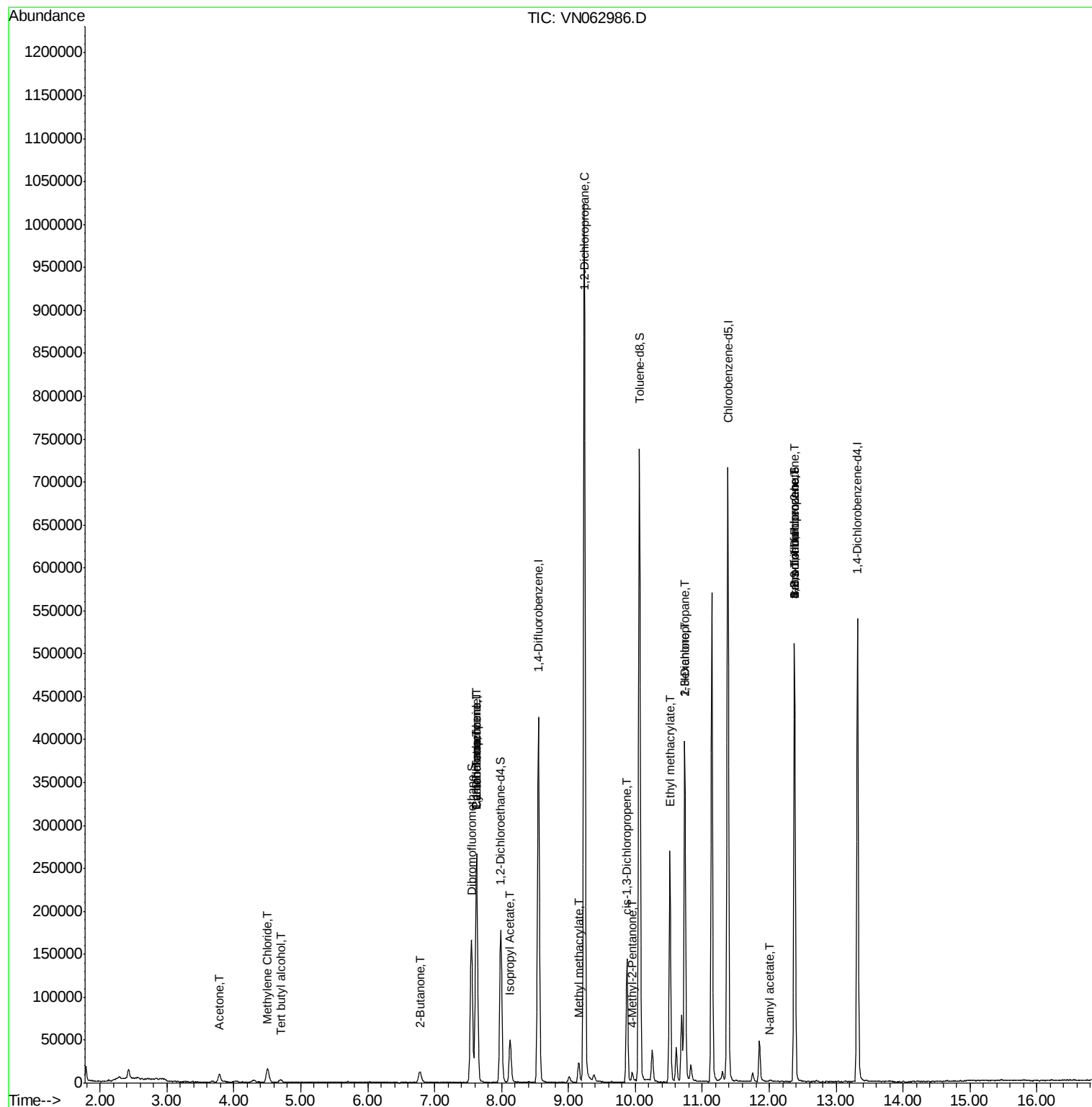
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.69	59	2767	6.777	ug/l #	74
16) Acetone	3.79	43	16047	17.345	ug/l	94
18) Methyl Acetate	4.29	43	4369	Below Cal	#	77
20) Methylene Chloride	4.50	84	12553	6.157	ug/l	95
25) 2-Butanone	6.80	43	1628	1.221	ug/l	92
29) Tetrahydrofuran	7.17	42	464	Below Cal	#	29
31) Cyclohexane	7.63	56	4243	1.151	ug/l #	1
36) 1,1-Dichloropropene	7.63	75	16542	5.003	ug/l #	46
38) Carbon Tetrachloride	7.63	117	20869	5.974	ug/l #	15
43) Isopropyl Acetate	8.13	43	59520	12.402	ug/l #	84
45) 1,2-Dichloropropane	9.24	63	1184	0.406	ug/l #	44
48) Methyl methacrylate	9.15	41	3583	1.526	ug/l #	8
51) 4-Methyl-2-Pentanone	9.95	43	8358	2.603	ug/l	87
54) cis-1,3-Dichloropropene	9.87	75	24623	5.747	ug/l #	70
56) Ethyl methacrylate	10.52	69	1863	4.152	ug/l #	1
57) 1,3-Dichloropropane	10.74	76	4054	0.918	ug/l #	42
59) 2-Hexanone	10.74	43	56553	14.881	ug/l #	50
71) Bromoform	12.38	173	1613	0.578	ug/l #	1
74) N-amyl acetate	12.01	43	2019	0.552	ug/l #	39
76) 1,2,3-Trichloropropane	12.38	75	85172	27.941	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	85172	74.827	ug/l #	16
95) Naphthalene	15.11	128	263	Below Cal	#	69

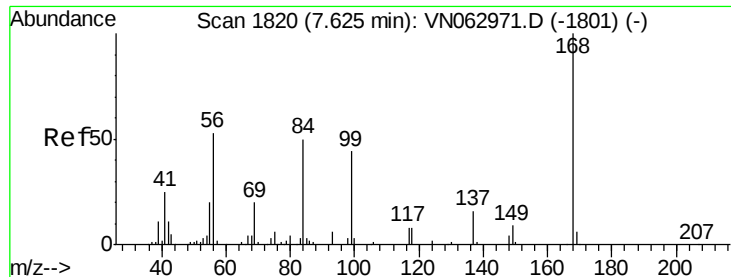
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. 0.00 min

Lab File: VN062986.D

Acq: 17 Aug 2020 22:20

Instrument :

MSVOA_N

ClientSampleId :

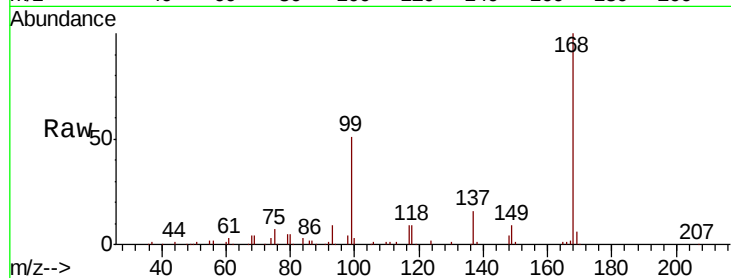
CL-02-081420

Tot Ion:168 Resp: 225557

Ion Ratio Lower Upper

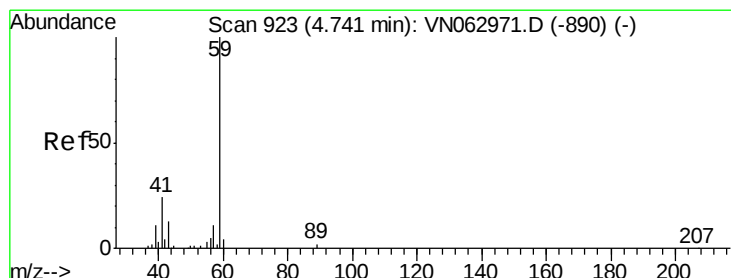
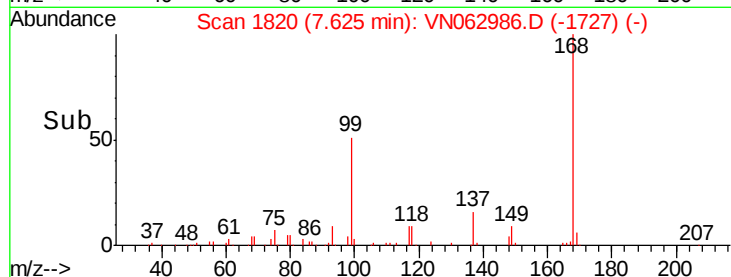
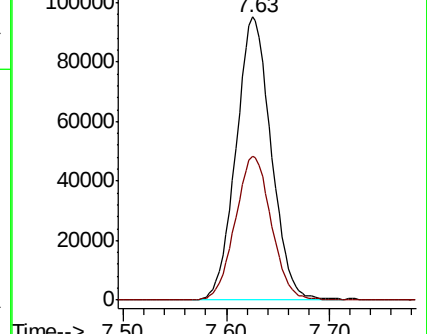
168 100

99 51.0 39.4 59.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#11

Tert butyl alcohol

Concen: 6.777 ug/l

RT: 4.69 min Scan# 908

Delta R.T. -0.05 min

Lab File: VN062986.D

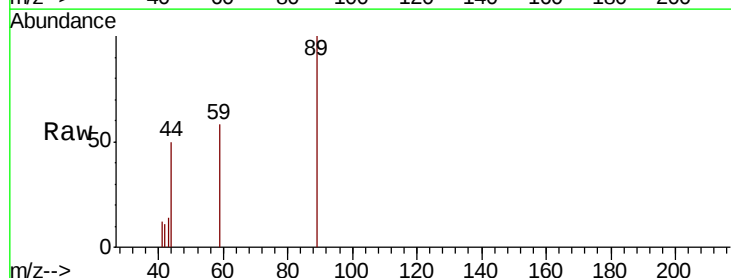
Acq: 17 Aug 2020 22:20

Tgt Ion: 59 Resp: 2767

Ion Ratio Lower Upper

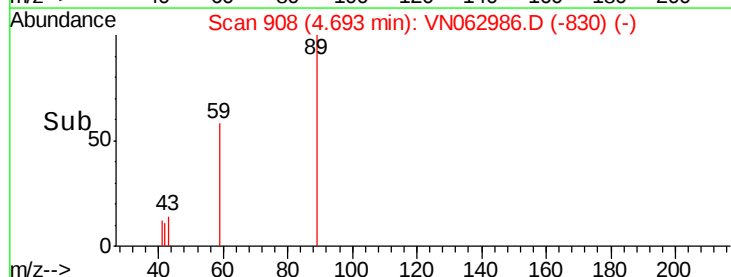
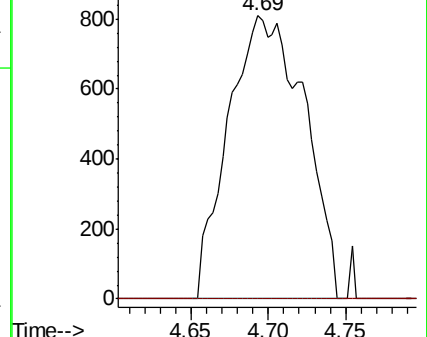
59 100

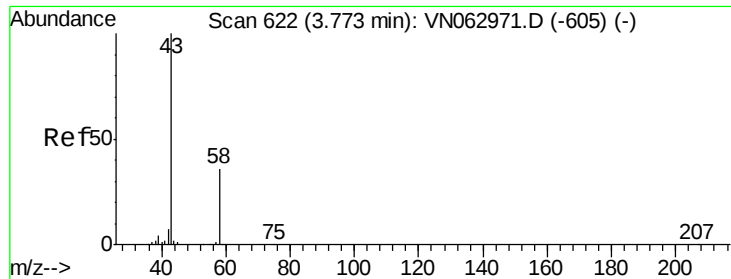
57 0.0 7.6 11.4#



Abundance Ion 59.00 (58.70 to 59.70): VN

Ion 57.00 (56.70 to 57.70): VN





#16

Acetone

Concen: 17.345 ug/l

RT: 3.79 min Scan# 626

Delta R.T. 0.01 min

Lab File: VN062986.D

Acq: 17 Aug 2020 22:20

Instrument :

MSVOA_N

ClientSampleId :

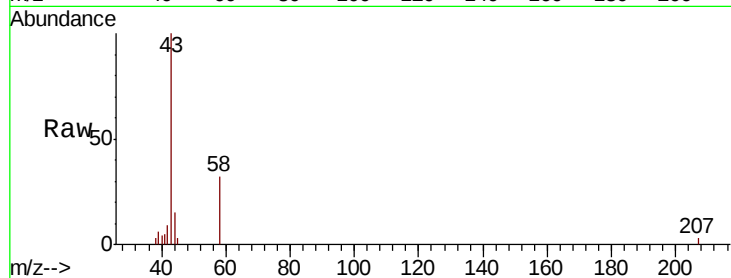
CL-02-081420

Tot Ion: 43 Resp: 16047

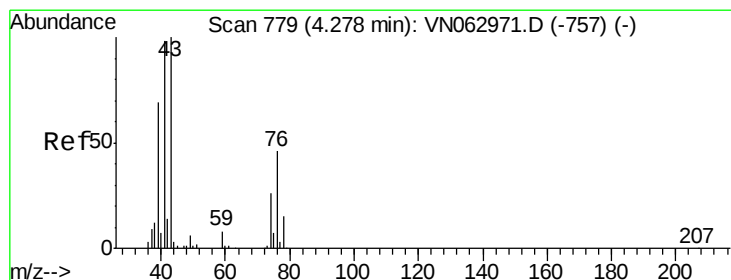
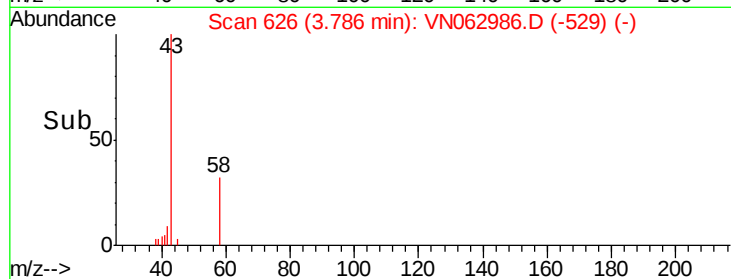
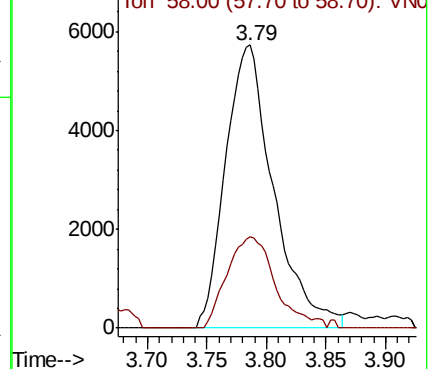
Ion Ratio Lower Upper

43 100

58 32.5 28.7 43.1



Abundance Ion 43.00 (42.70 to 43.70): VN062971.D (-605) (-)



#18

Methyl Acetate

Concen: Below Cal

RT: 4.29 min Scan# 782

Delta R.T. 0.01 min

Lab File: VN062986.D

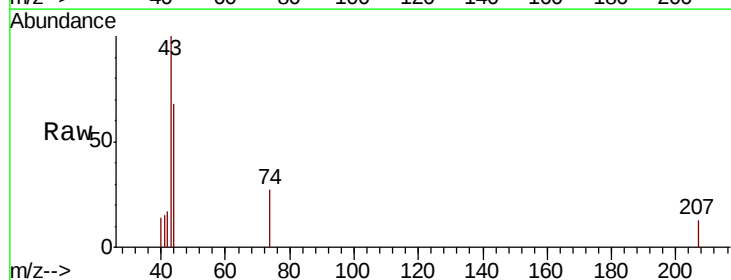
Acq: 17 Aug 2020 22:20

Tgt Ion: 43 Resp: 4369

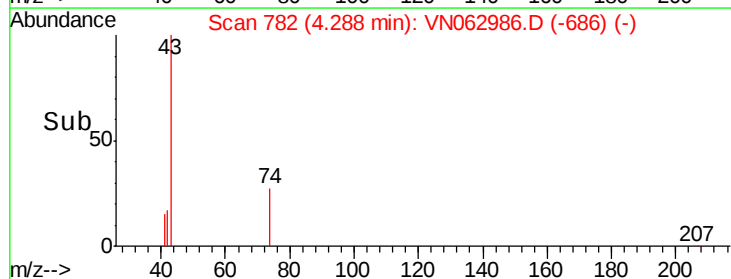
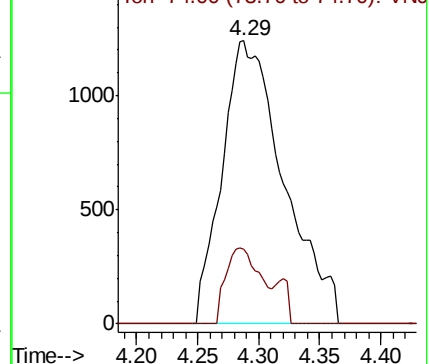
Ion Ratio Lower Upper

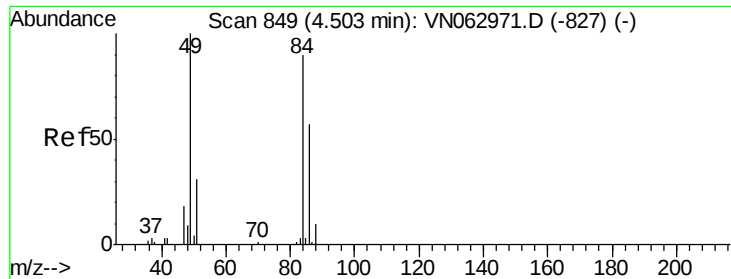
43 100

74 15.1 21.6 32.4#



Abundance Ion 43.00 (42.70 to 43.70): VN062971.D (-757) (-)

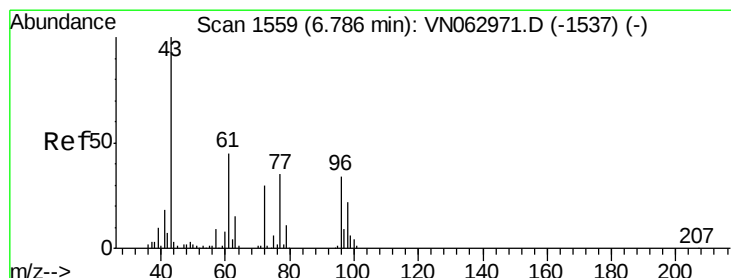
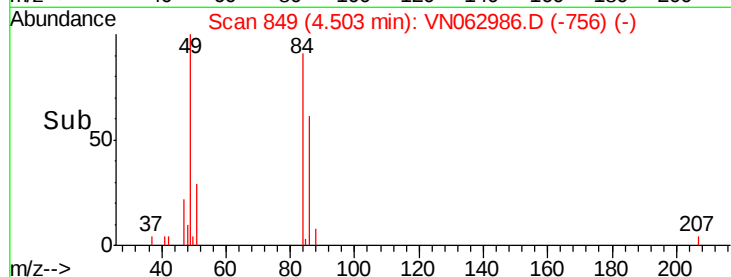
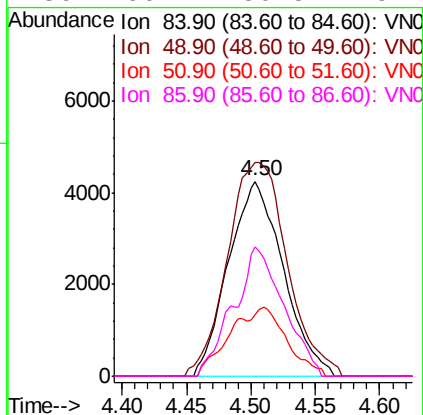
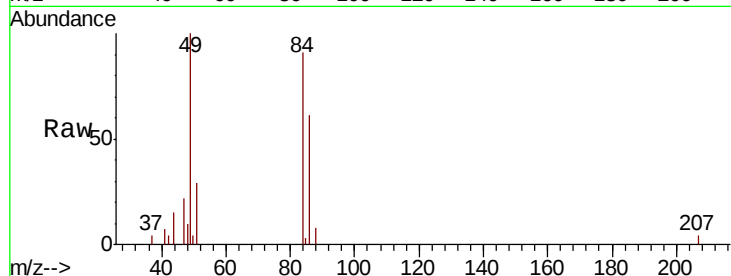




#20
Methvlene Chloride
Concen: 6.157 ug/l
RT: 4.50 min Scan# 849
Delta R.T. 0.00 min
Lab File: VN062986.D
Acq: 17 Aug 2020 22:20

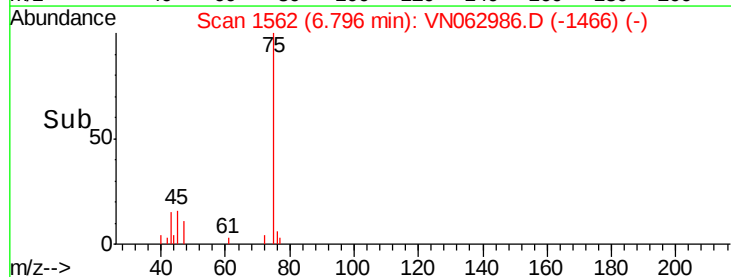
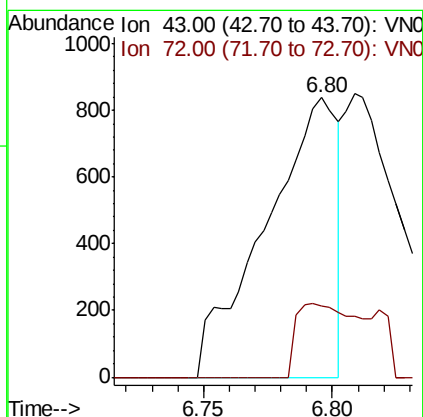
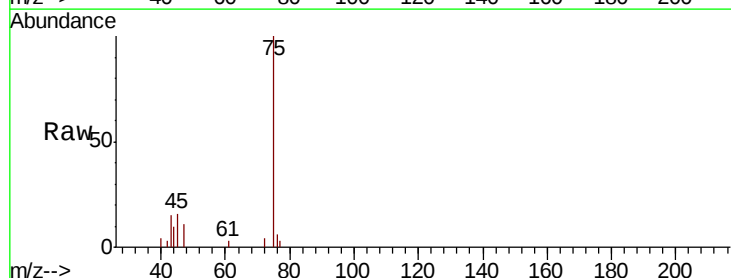
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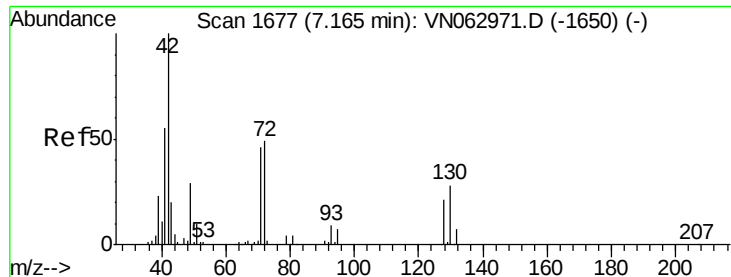
Tot Ion:	84	Resp:	12553
Ion	Ratio	Lower	Upper
84	100		
49	105.7	88.8	133.2
51	31.9	27.1	40.7
86	66.7	50.5	75.7



#25
2-Butanone
Concen: 1.221 ug/l
RT: 6.80 min Scan# 1562
Delta R.T. 0.01 min
Lab File: VN062986.D
Acq: 17 Aug 2020 22:20

Tgt Ion:	43	Resp:	1628
Ion	Ratio	Lower	Upper
43	100		
72	25.4	23.9	35.9

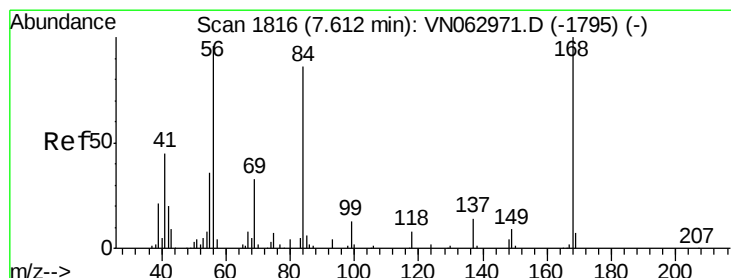
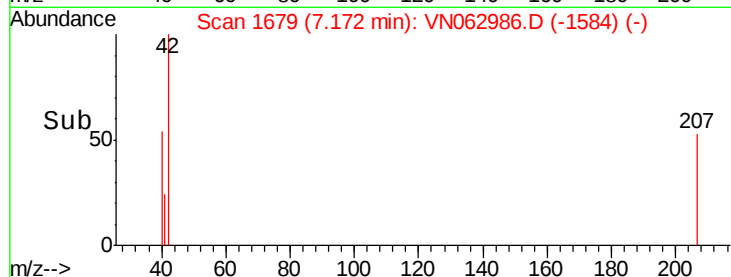
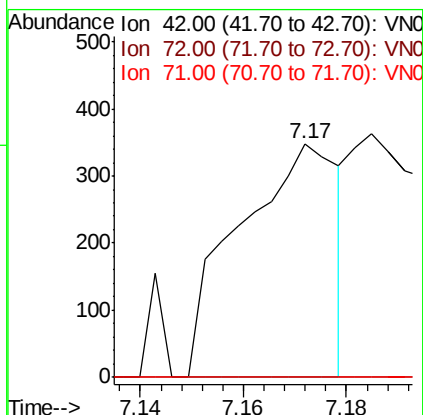
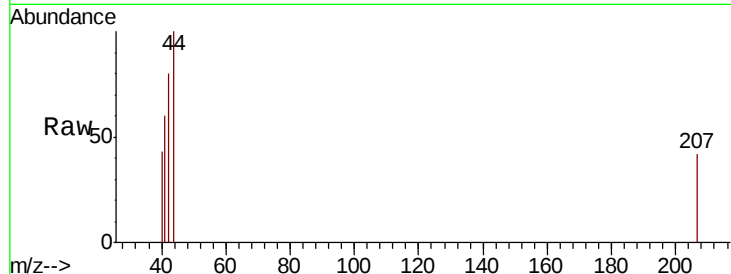




#29
Tetrahydrofuran
Concen: Below Cal
RT: 7.17 min Scan# 1679
Delta R.T. 0.01 min
Lab File: VN062986.D
Acq: 17 Aug 2020 22:20

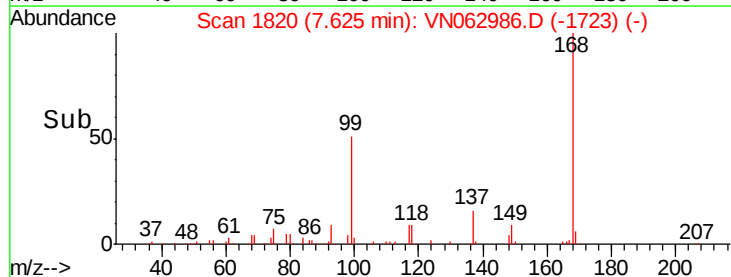
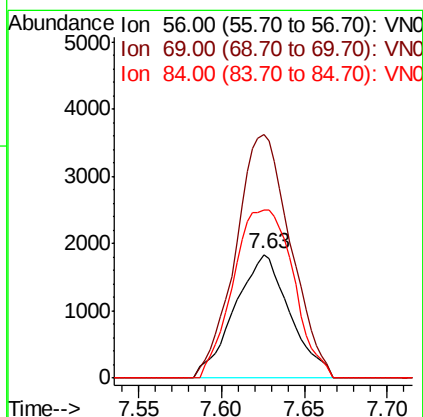
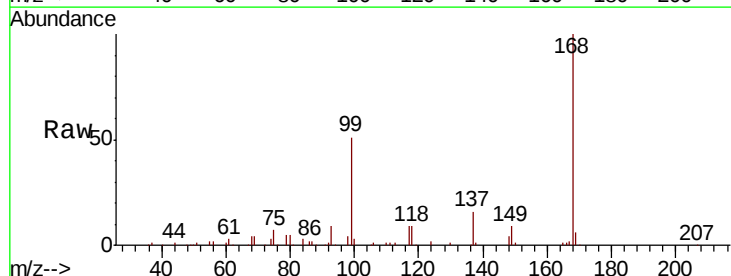
Instrument :
MSVOA_N
ClientSampleId :
CL-02-081420

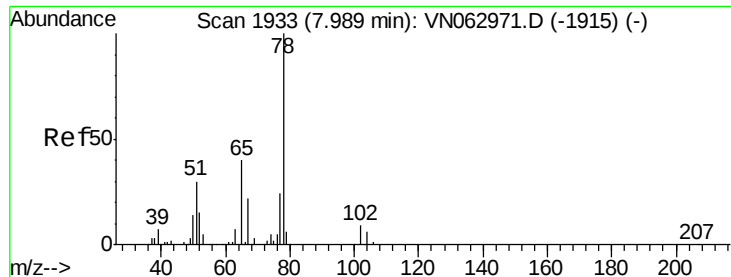
Tot Ion: 42 Resp: 464
Ion Ratio Lower Upper
42 100
72 0.0 39.4 59.2#
71 0.0 37.2 55.8#



#31
Cyclohexane
Concen: 1.151 ug/l
RT: 7.63 min Scan# 1820
Delta R.T. 0.01 min
Lab File: VN062986.D
Acq: 17 Aug 2020 22:20

Tgt Ion: 56 Resp: 4243
Ion Ratio Lower Upper
56 100
69 197.2 27.4 41.2#
84 135.9 71.3 106.9#

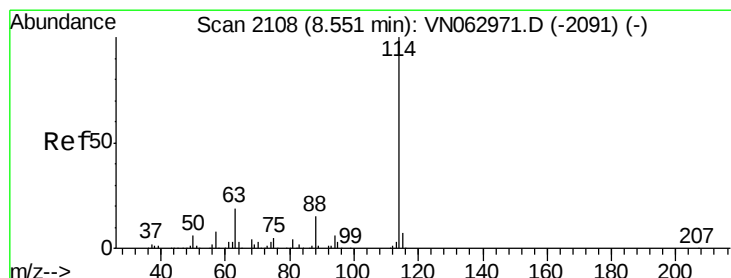
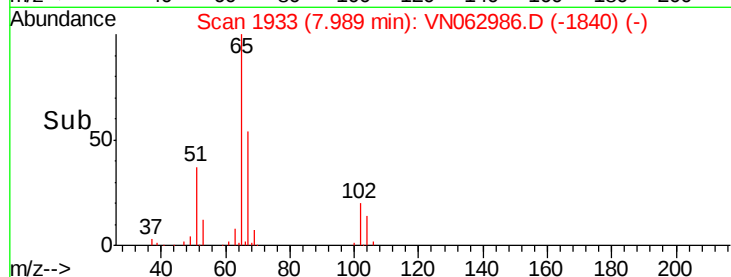
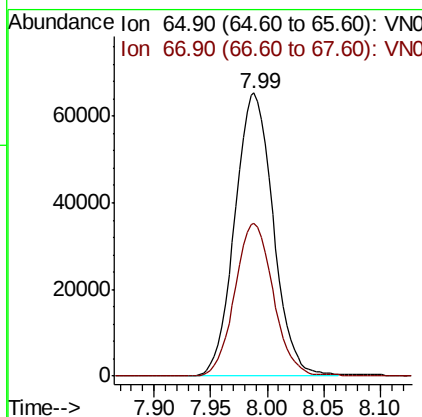
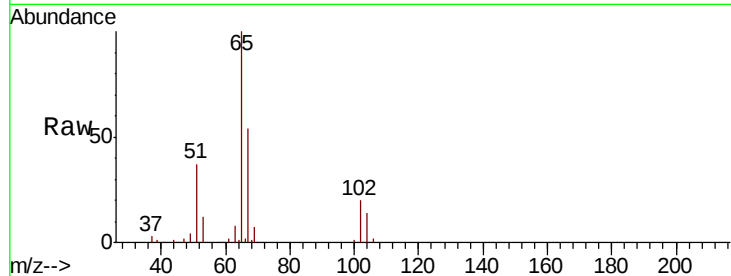




#33
 1,2-Dichloroethane-d4
 Concen: 64.760 ug/l
 RT: 7.99 min Scan# 1933
 Delta R.T. 0.00 min
 Lab File: VN062986.D
 Acq: 17 Aug 2020 22:20

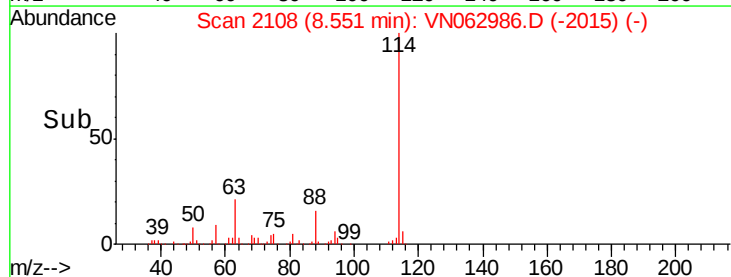
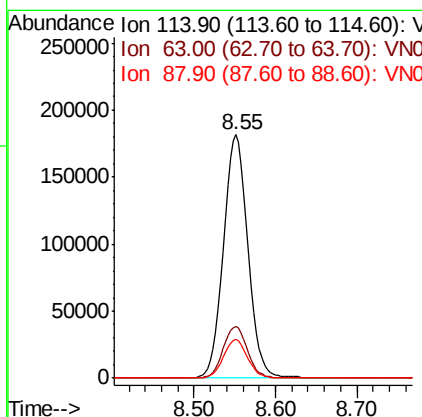
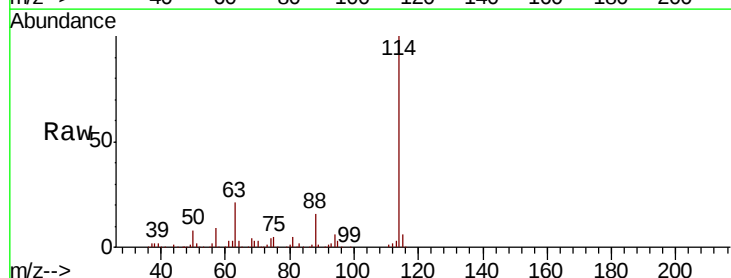
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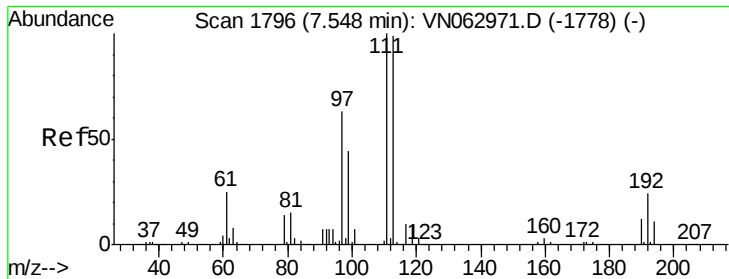
Tot Ion: 65 Resp: 154737
 Ion Ratio Lower Upper
 65 100
 67 54.0 0.0 108.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2108
 Delta R.T. 0.00 min
 Lab File: VN062986.D
 Acq: 17 Aug 2020 22:20

Tgt Ion: 114 Resp: 385439
 Ion Ratio Lower Upper
 114 100
 63 21.3 0.0 37.6
 88 15.7 0.0 31.0

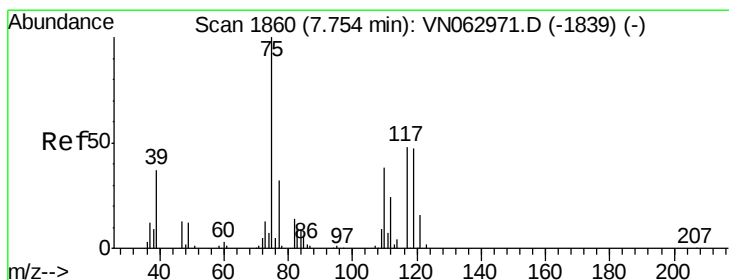
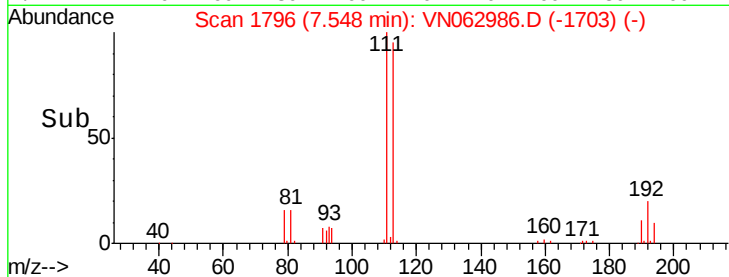
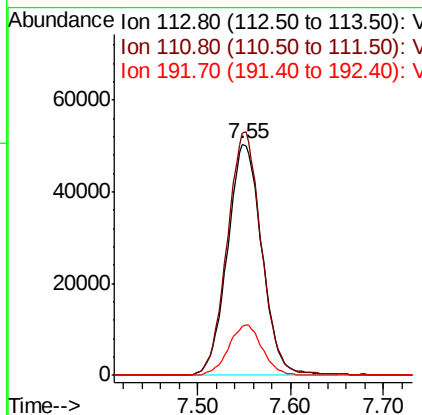
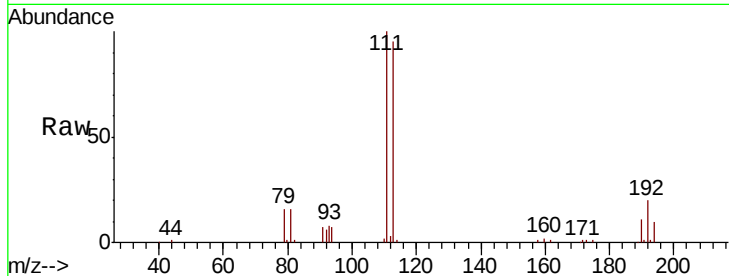




#35
 Dibromofluoromethane
 Concen: 51.849 ug/l
 RT: 7.55 min Scan# 1796
 Delta R.T. 0.00 min
 Lab File: VN062986.D
 Acq: 17 Aug 2020 22:20

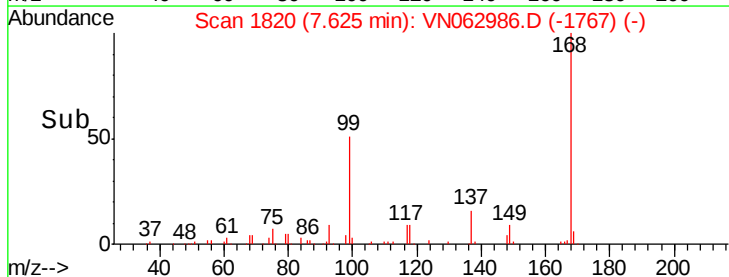
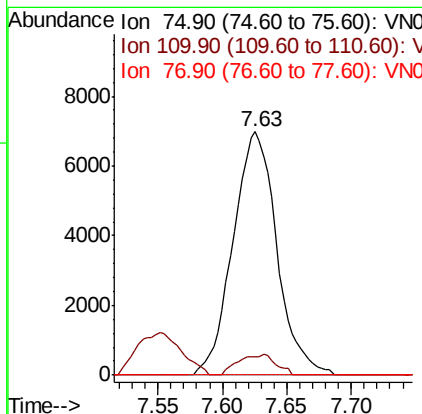
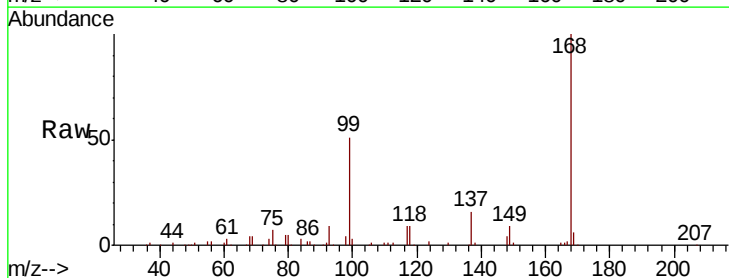
Instrument :
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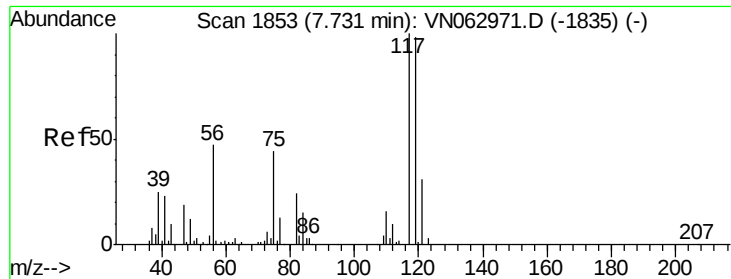
Tot Ion	Ratio	Lower	Upper
113	100		
111	104.2	81.4	122.0
192	21.1	19.2	28.8



#36
 1,1-Dichloropropene
 Concen: 5.003 ug/l
 RT: 7.63 min Scan# 1820
 Delta R.T. -0.13 min
 Lab File: VN062986.D
 Acq: 17 Aug 2020 22:20

Tgt Ion	Ratio	Lower	Upper
75	100		
110	7.2	18.7	56.1#
77	0.0	25.6	38.4#





#38

Carbon Tetrachloride

Concen: 5.974 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. -0.11 min

Lab File: VN062986.D

Acq: 17 Aug 2020 22:20

Instrument :

MSVOA_N

ClientSampleId :

CL-02-081420

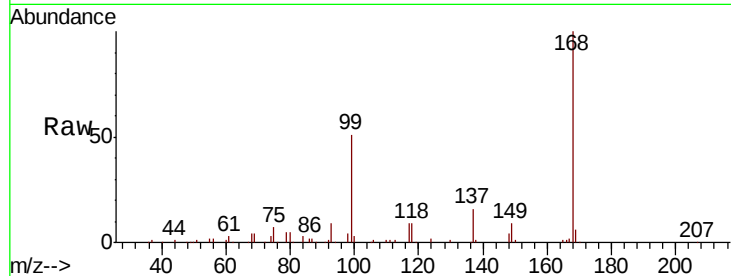
Tot Ion:117 Resp: 20869

Ion Ratio Lower Upper

117 100

119 5.2 77.9 116.9#

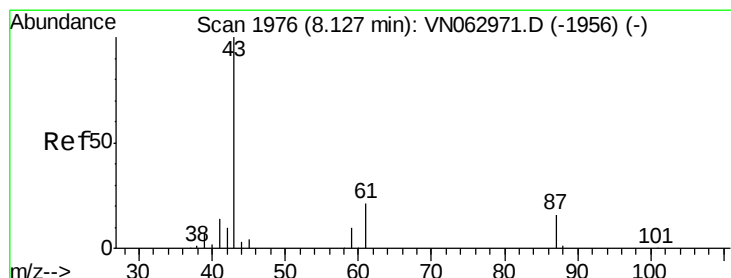
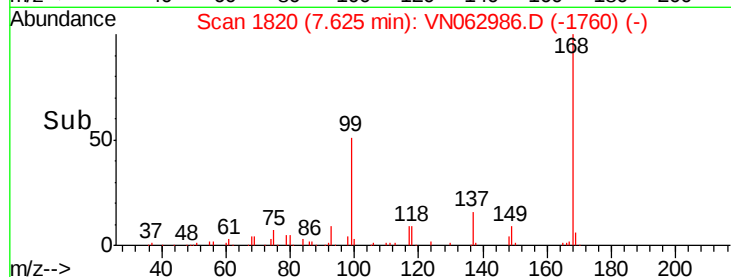
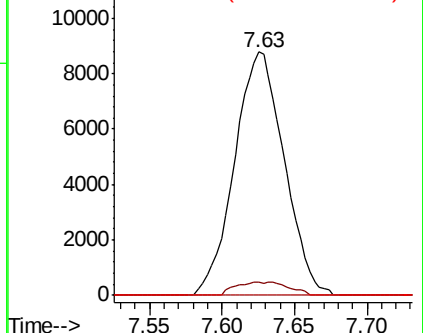
121 0.0 24.8 37.2#



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



#43

Isopropyl Acetate

Concen: 12.402 ug/l

RT: 8.13 min Scan# 1976

Delta R.T. 0.00 min

Lab File: VN062986.D

Acq: 17 Aug 2020 22:20

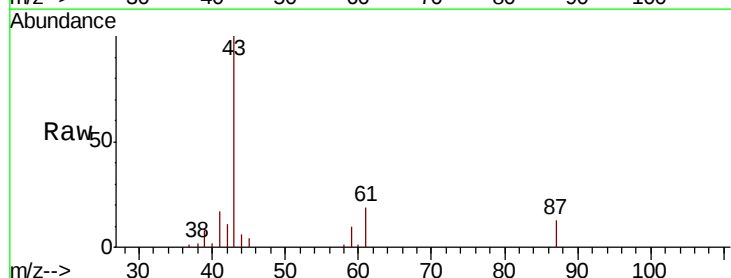
Tgt Ion: 43 Resp: 59520

Ion Ratio Lower Upper

43 100

61 19.6 24.6 36.8#

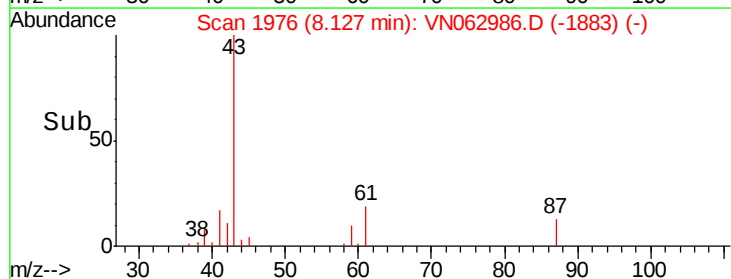
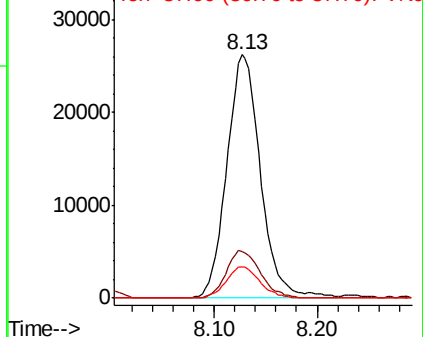
87 12.7 12.4 18.6

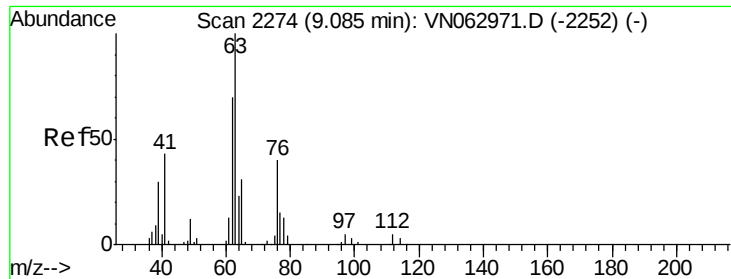


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0





#45

1,2-Dichloropropane

Concen: 0.406 ug/l

RT: 9.24 min Scan# 2321

Delta R.T. 0.15 min

Lab File: VN062986.D

Acq: 17 Aug 2020 22:20

Instrument :

MSVOA_N

ClientSampleId :

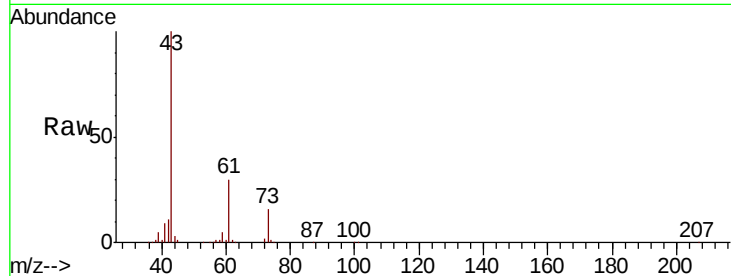
CL-02-081420

Tot Ion: 63 Resp: 1184

Ion Ratio Lower Upper

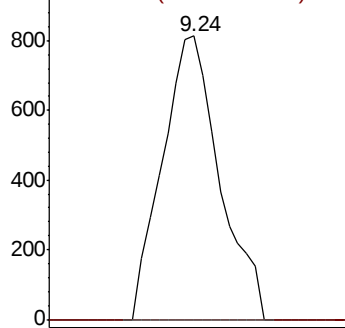
63 100

65 0.0 24.7 37.1#

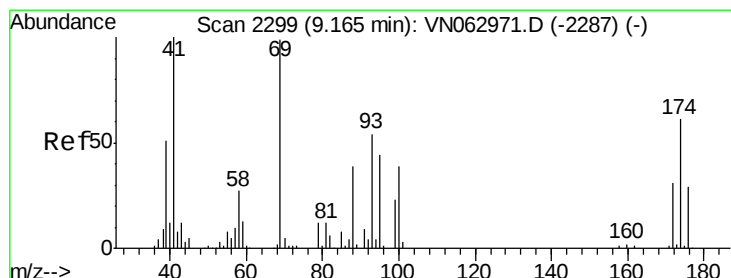
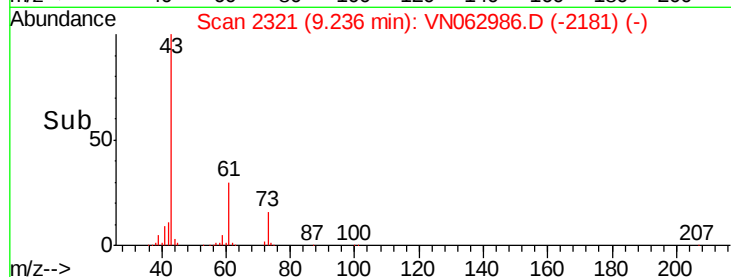


Abundance Ion 62.90 (62.60 to 63.60): VNO

Ion 64.90 (64.60 to 65.60): VNO



Time-->



#48

Methyl methacrylate

Concen: 1.526 ug/l

RT: 9.15 min Scan# 2293

Delta R.T. -0.02 min

Lab File: VN062986.D

Acq: 17 Aug 2020 22:20

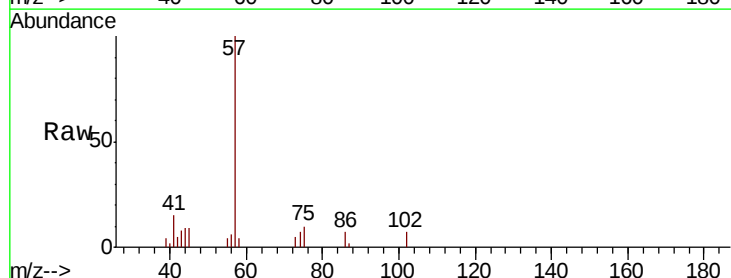
Tgt Ion: 41 Resp: 3583

Ion Ratio Lower Upper

41 100

69 0.0 81.1 121.7#

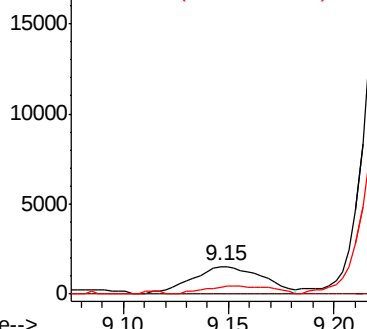
39 0.0 42.4 63.6#



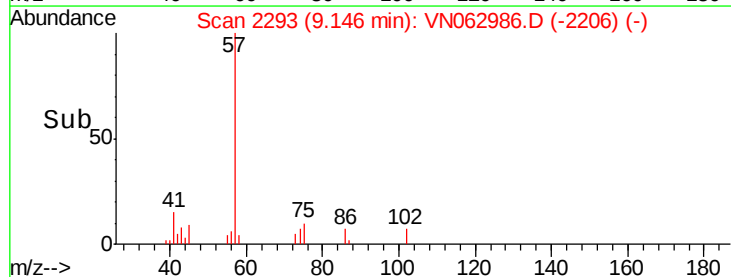
Abundance Ion 41.00 (40.70 to 41.70): VNO

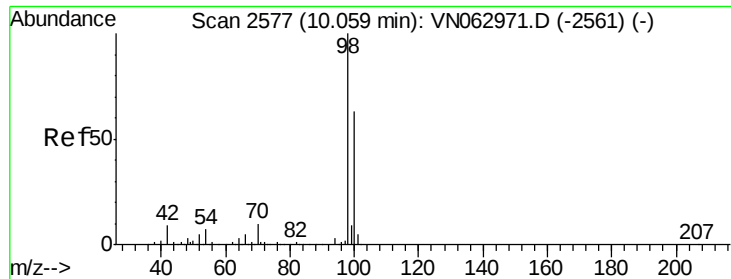
Ion 69.00 (68.70 to 69.70): VNO

Ion 39.00 (38.70 to 39.70): VNO



Time-->





#50

Toluene-d8

Concen: 53.159 ug/l

RT: 10.06 min Scan# 2577

Delta R.T. 0.00 min

Lab File: VN062986.D

Acq: 17 Aug 2020 22:20

Instrument :

MSVOA_N

ClientSampleId :

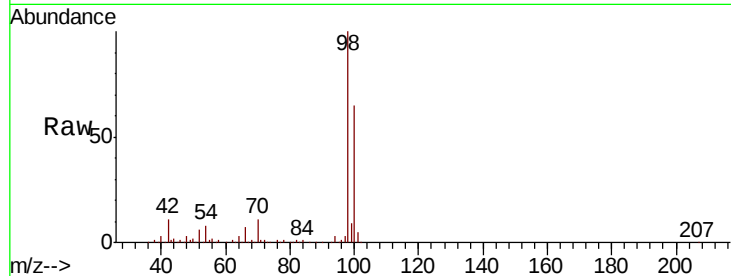
CL-02-081420

Tot Ion: 98 Resp: 517930

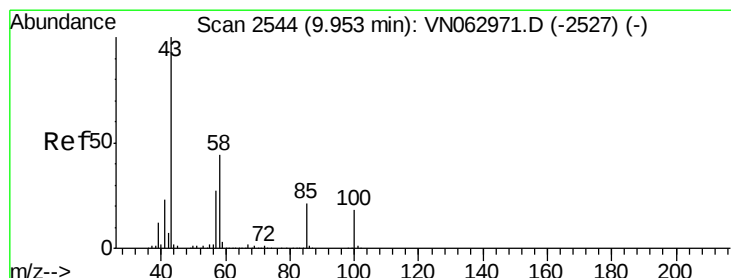
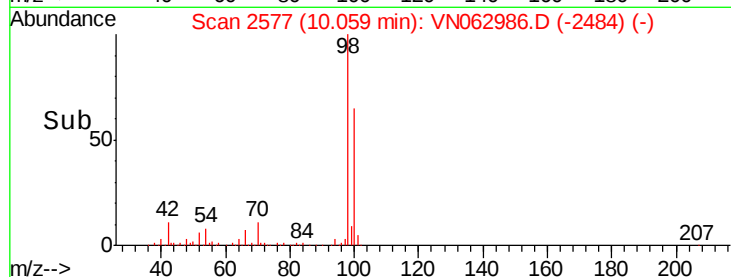
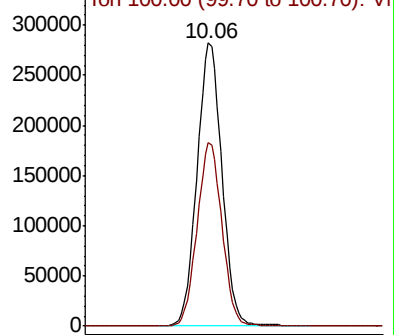
Ion Ratio Lower Upper

98 100

100 64.5 51.0 76.4



Abundance Ion 98.00 (97.70 to 98.70): VN062971.D (-2561) (-)



#51

4-Methyl-2-Pentanone

Concen: 2.603 ug/l

RT: 9.95 min Scan# 2544

Delta R.T. 0.00 min

Lab File: VN062986.D

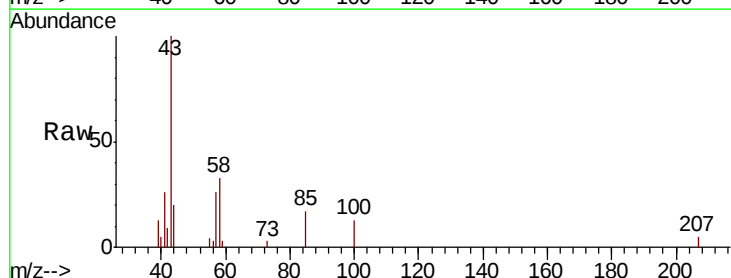
Acq: 17 Aug 2020 22:20

Tgt Ion: 43 Resp: 8358

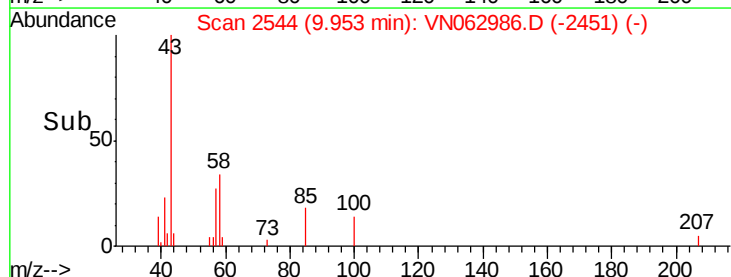
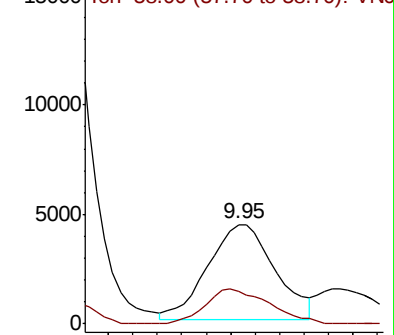
Ion Ratio Lower Upper

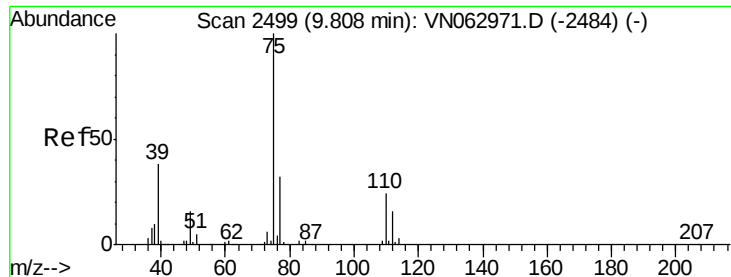
43 100

58 34.6 34.3 51.5



Abundance Ion 43.00 (42.70 to 43.70): VN062971.D (-2527) (-)





#54

cis-1,3-Dichloropropene

Concen: 5.747 ug/l

RT: 9.87 min Scan# 2519

Delta R.T. 0.06 min

Lab File: VN062986.D

Acq: 17 Aug 2020 22:20

Instrument :

MSVOA_N

ClientSampleId :

CL-02-081420

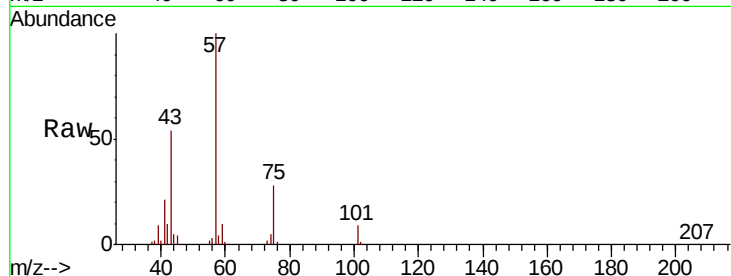
Tot Ion: 75 Resp: 24623

Ion Ratio Lower Upper

75 100

77 0.0 25.4 38.2#

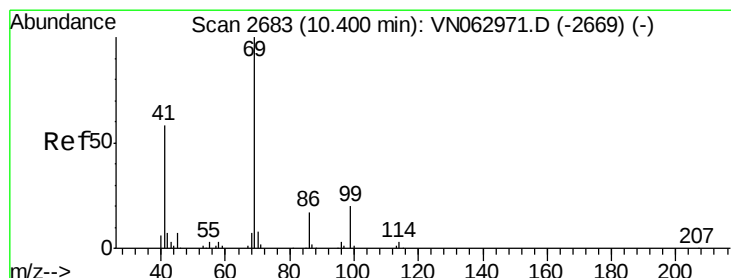
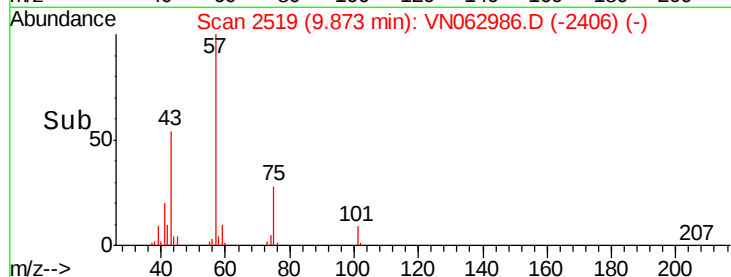
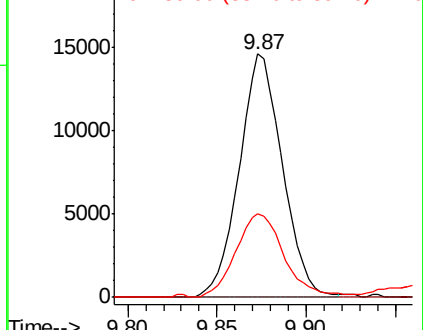
39 34.2 30.6 46.0



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0



#56

Ethyl methacrylate

Concen: 4.152 ug/l

RT: 10.52 min Scan# 2719

Delta R.T. 0.12 min

Lab File: VN062986.D

Acq: 17 Aug 2020 22:20

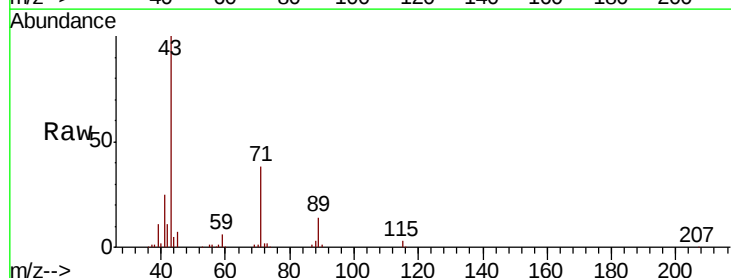
Tgt Ion: 69 Resp: 1863

Ion Ratio Lower Upper

69 100

41 2631.2 46.0 69.0#

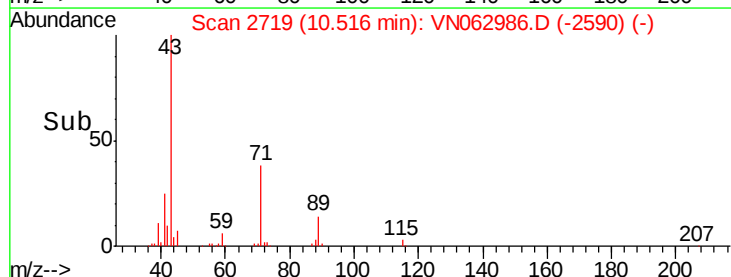
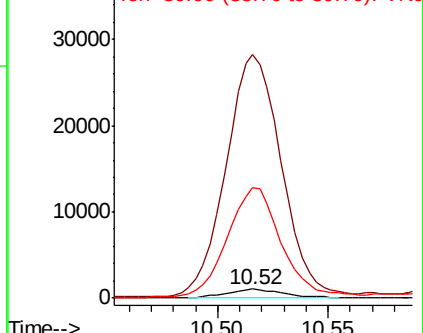
39 1191.9 23.4 35.0#

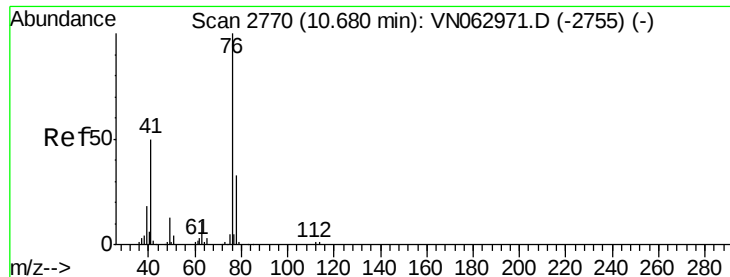


Abundance Ion 69.00 (68.70 to 69.70): VN0

Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0





#57

1,3-Dichloropropane

Concen: 0.918 ug/l

RT: 10.74 min Scan# 2789

Delta R.T. 0.06 min

Lab File: VN062986.D

Acq: 17 Aug 2020 22:20

Instrument :

MSVOA_N

ClientSampleId :

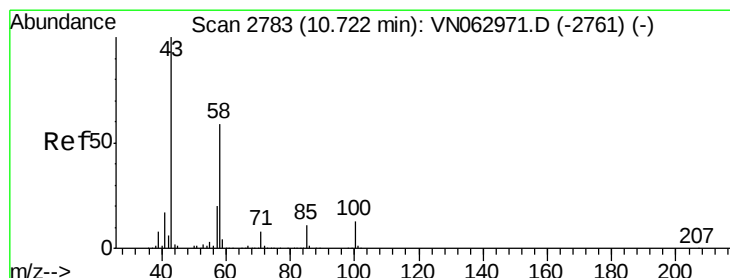
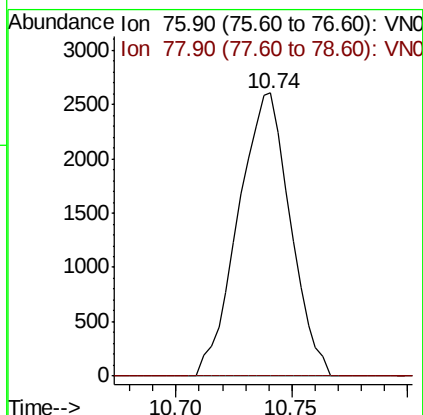
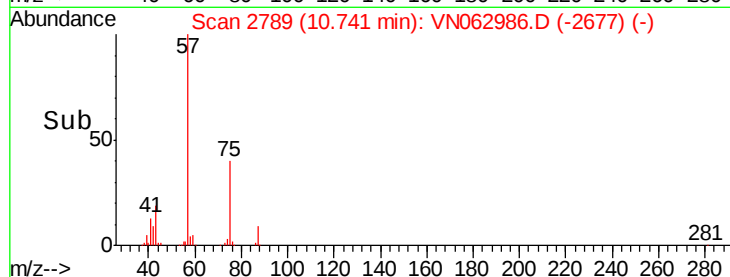
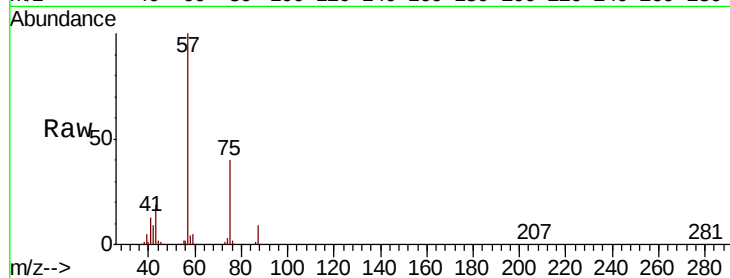
CL-02-081420

Tot Ion: 76 Resp: 4054

Ion Ratio Lower Upper

76 100

78 0.0 26.2 39.4#



#59

2-Hexanone

Concen: 14.881 ug/l

RT: 10.74 min Scan# 2788

Delta R.T. 0.02 min

Lab File: VN062986.D

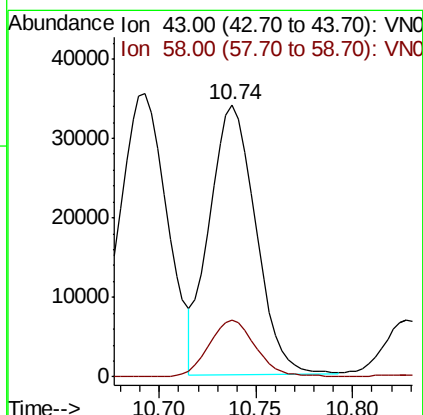
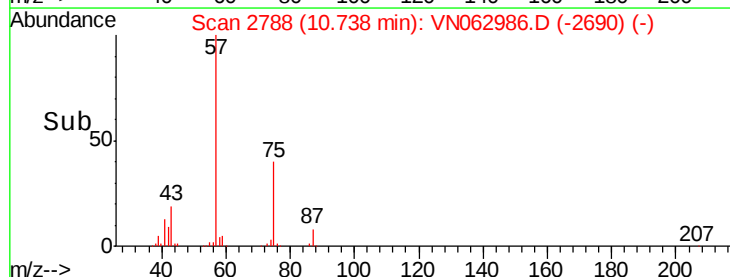
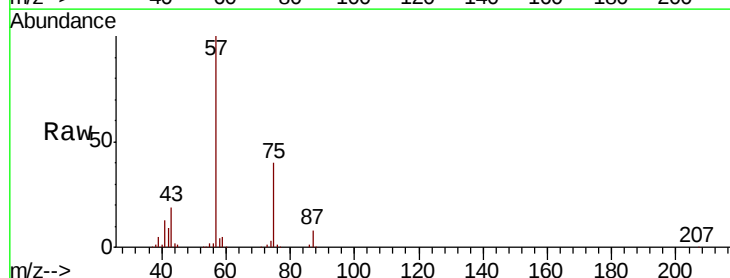
Acq: 17 Aug 2020 22:20

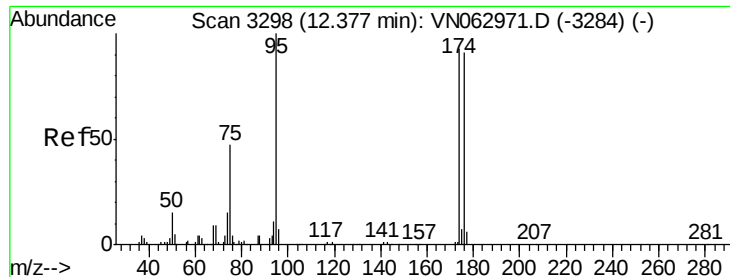
Tgt Ion: 43 Resp: 56553

Ion Ratio Lower Upper

43 100

58 21.3 29.5 88.5#

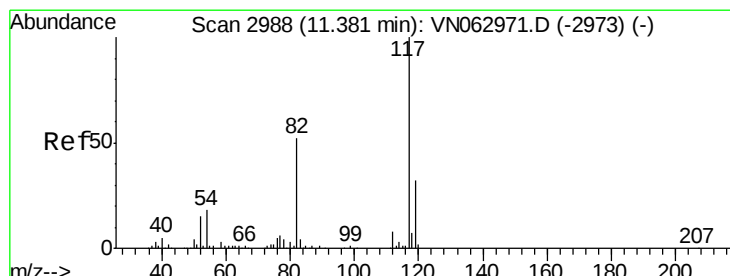
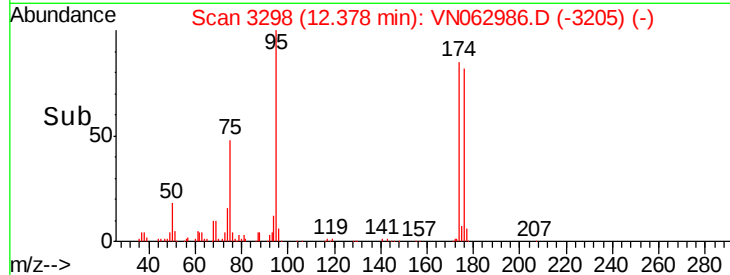
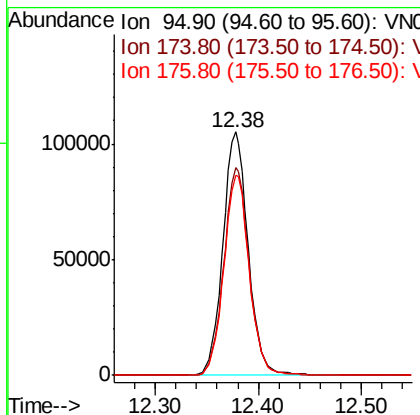
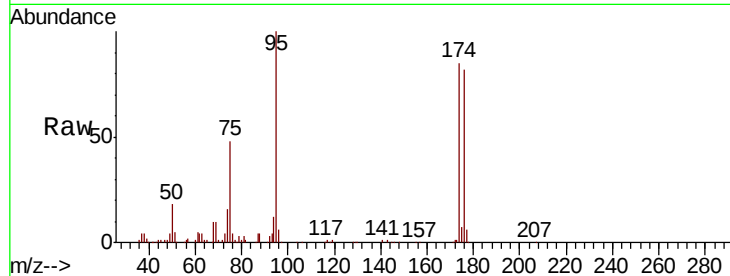




#62
4-Bromofluorobenzene
Concen: 51.109 ug/l
RT: 12.38 min Scan# 3298
Delta R.T. 0.00 min
Lab File: VN062986.D
Acq: 17 Aug 2020 22:20

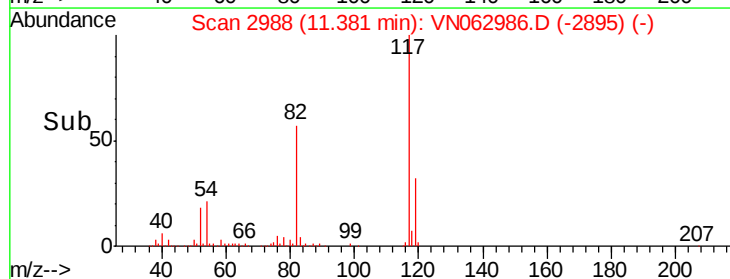
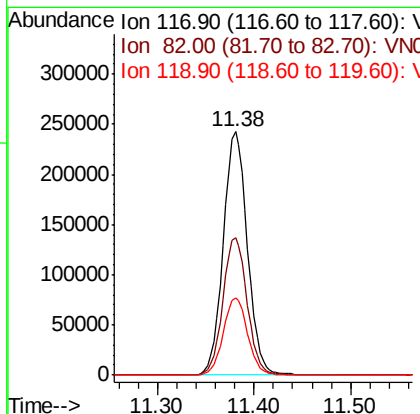
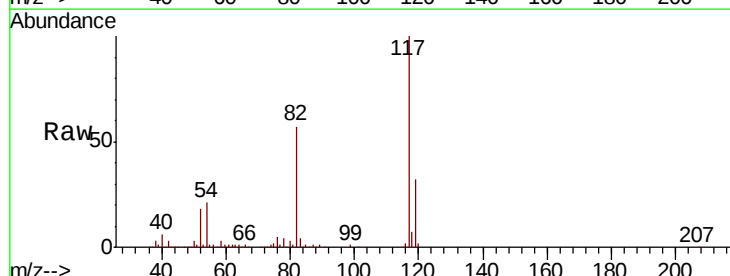
Instrument :
MSVOA_N
ClientSampleId :
CL-02-081420

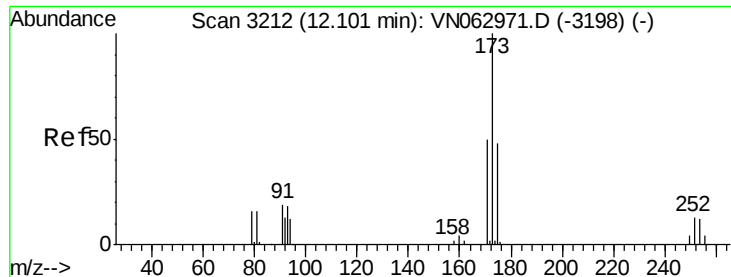
Tot Ion	95	Resp	178932
Ion Ratio	Lower	Upper	
95	100		
174	85.6	0.0	185.2
176	83.0	0.0	178.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2988
Delta R.T. 0.00 min
Lab File: VN062986.D
Acq: 17 Aug 2020 22:20

Tgt Ion	117	Resp	420240
Ion Ratio	Lower	Upper	
117	100		
82	56.6	41.3	61.9
119	32.0	25.8	38.8

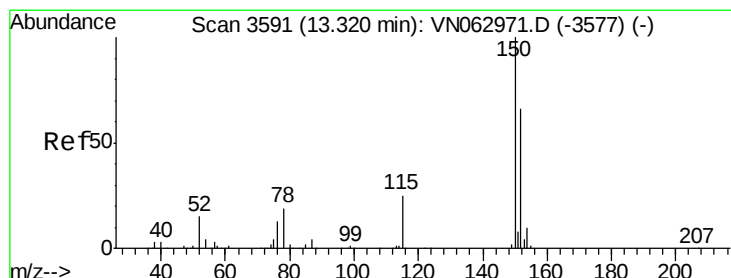
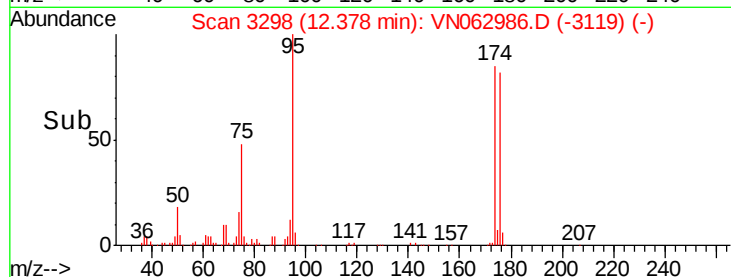
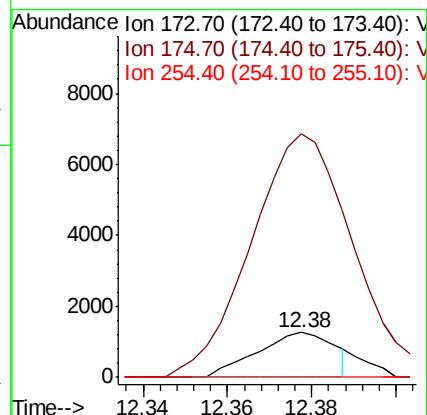
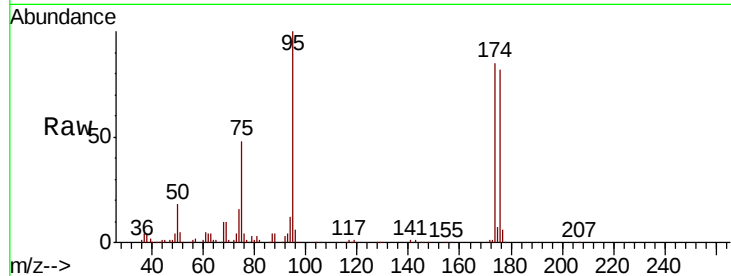




#71
Bromoform
Concen: 0.578 ug/l
RT: 12.38 min Scan# 3298
Delta R.T. 0.28 min
Lab File: VN062986.D
Acq: 17 Aug 2020 22:20

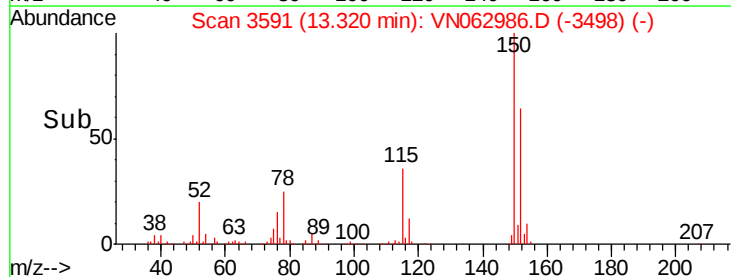
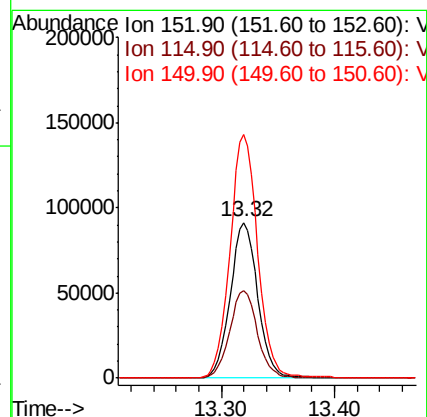
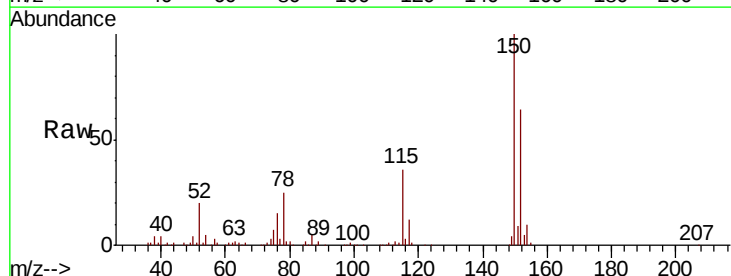
Instrument :
MSVOA_N
ClientSampleId :
CL-02-081420

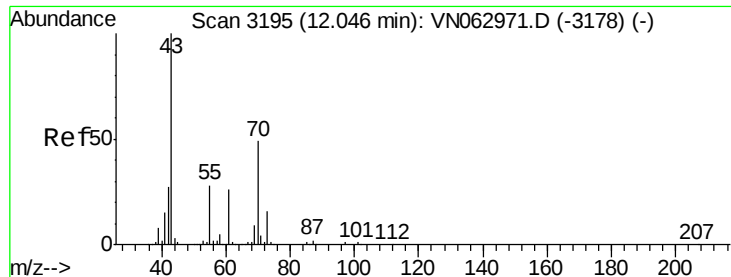
Tot Ion:173 Resp: 1613
Ion Ratio Lower Upper
173 100
175 594.7 24.1 72.2#
254 0.0 0.0 0.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.32 min Scan# 3591
Delta R.T. 0.00 min
Lab File: VN062986.D
Acq: 17 Aug 2020 22:20

Tgt Ion:152 Resp: 154332
Ion Ratio Lower Upper
152 100
115 56.8 27.1 81.3
150 157.4 0.0 341.4





#74

N-amvl acetate

Concen: 0.552 ug/l

RT: 12.01 min Scan# 3185

Delta R.T. -0.03 min

Lab File: VN062986.D

Acq: 17 Aug 2020 22:20

Instrument :

MSVOA_N

ClientSampleId :

CL-02-081420

Tot Ion: 43 Resp: 2019

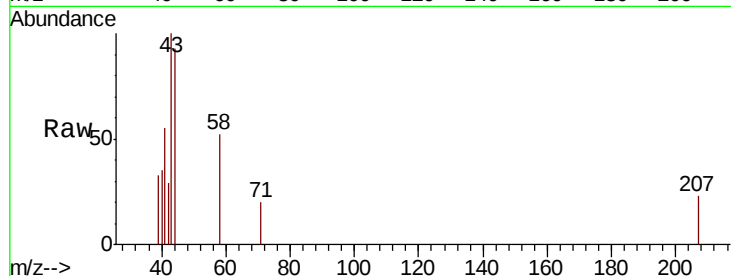
Ion Ratio Lower Upper

43 100

70 0.0 38.4 57.6#

55 0.0 21.9 32.9#

61 0.0 20.6 31.0#

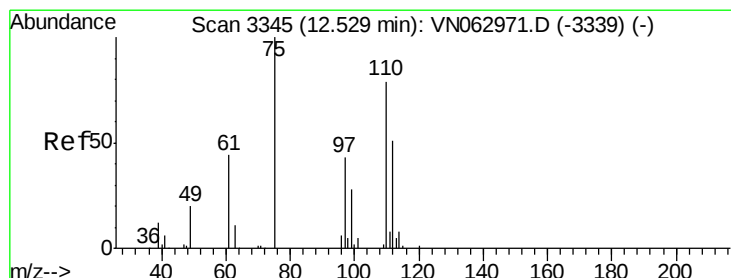
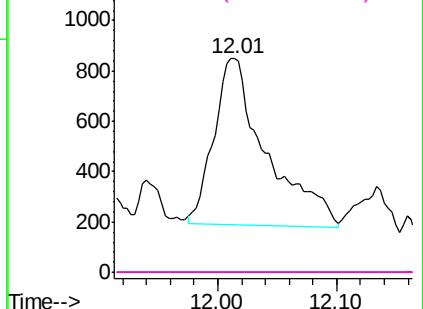
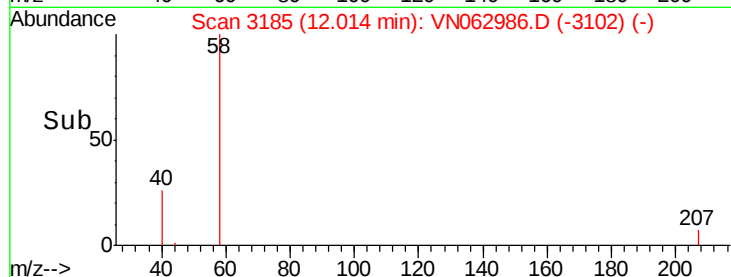


Abundance Ion 43.00 (42.70 to 43.70): VN0

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: 27.941 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. -0.15 min

Lab File: VN062986.D

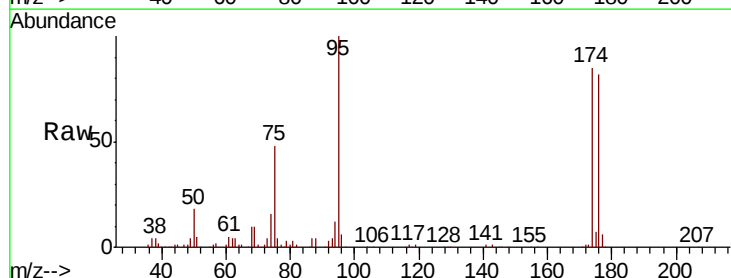
Acq: 17 Aug 2020 22:20

Tgt Ion: 75 Resp: 85172

Ion Ratio Lower Upper

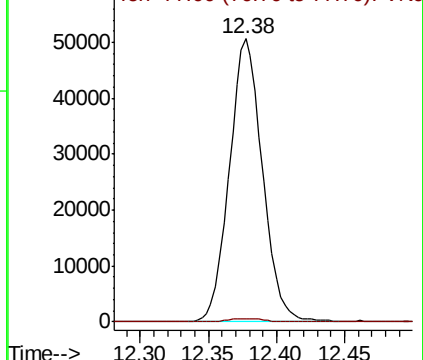
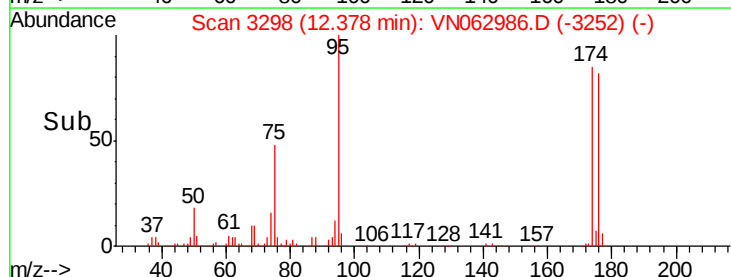
75 100

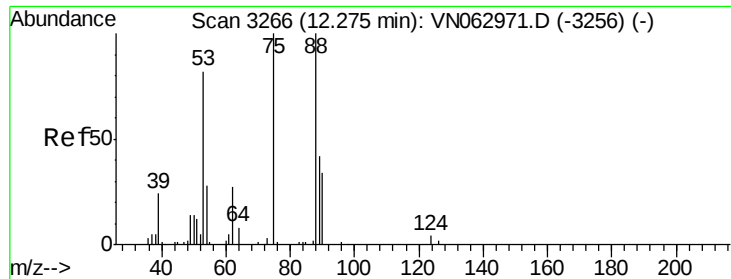
77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

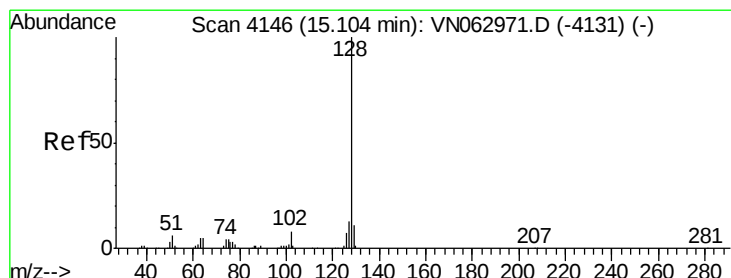
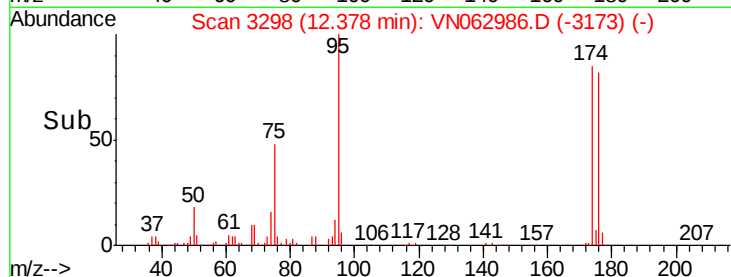
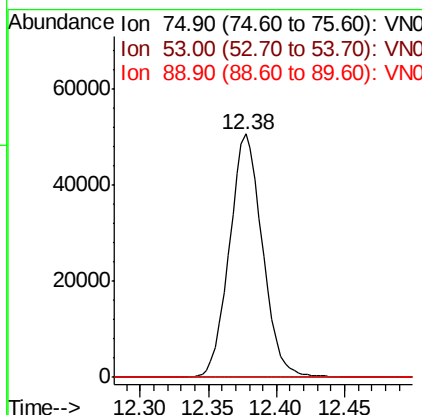
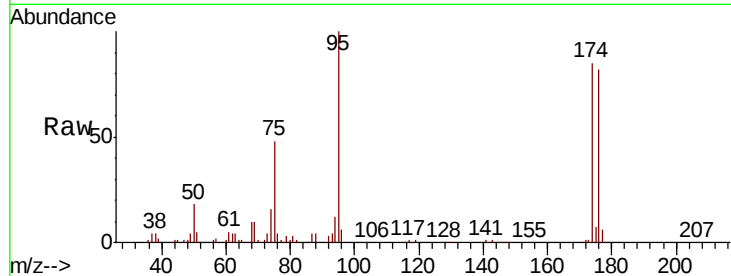




#81
trans-1,4-Dichloro-2-butene
Concen: 74.827 ug/l
RT: 12.38 min Scan# 3298
Delta R.T. 0.10 min
Lab File: VN062986.D
Acq: 17 Aug 2020 22:20

Instrument :
MSVOA_N
ClientSampleId :
CL-02-081420

Tot Ion: 75 Resp: 85172
Ion Ratio Lower Upper
75 100
53 0.0 66.2 99.2#
89 0.0 35.0 52.4#



#95
Naphthalene
Concen: Below Cal
RT: 15.11 min Scan# 4149
Delta R.T. 0.01 min
Lab File: VN062986.D
Acq: 17 Aug 2020 22:20

Tgt Ion: 128 Resp: 263
Ion Ratio Lower Upper
128 100
127 0.0 10.6 15.8#
129 0.0 8.6 12.8#

