

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN021720\
 Data File : VN060120.D
 Acq On : 17 Feb 2020 15:30
 Operator : JC/MD
 Sample : PB126834ZHE#05
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Feb 17 16:56:38 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N021220W.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 12 14:12:21 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	182774	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	290852	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	275596	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	124052	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.00	65	113434	51.00	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.00%	
35) Dibromofluoromethane	7.57	113	88852	49.70	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.40%	
50) Toluene-d8	10.08	98	358058	50.86	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.72%	
62) 4-Bromofluorobenzene	12.40	95	128857	49.81	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.62%	

Target Compounds

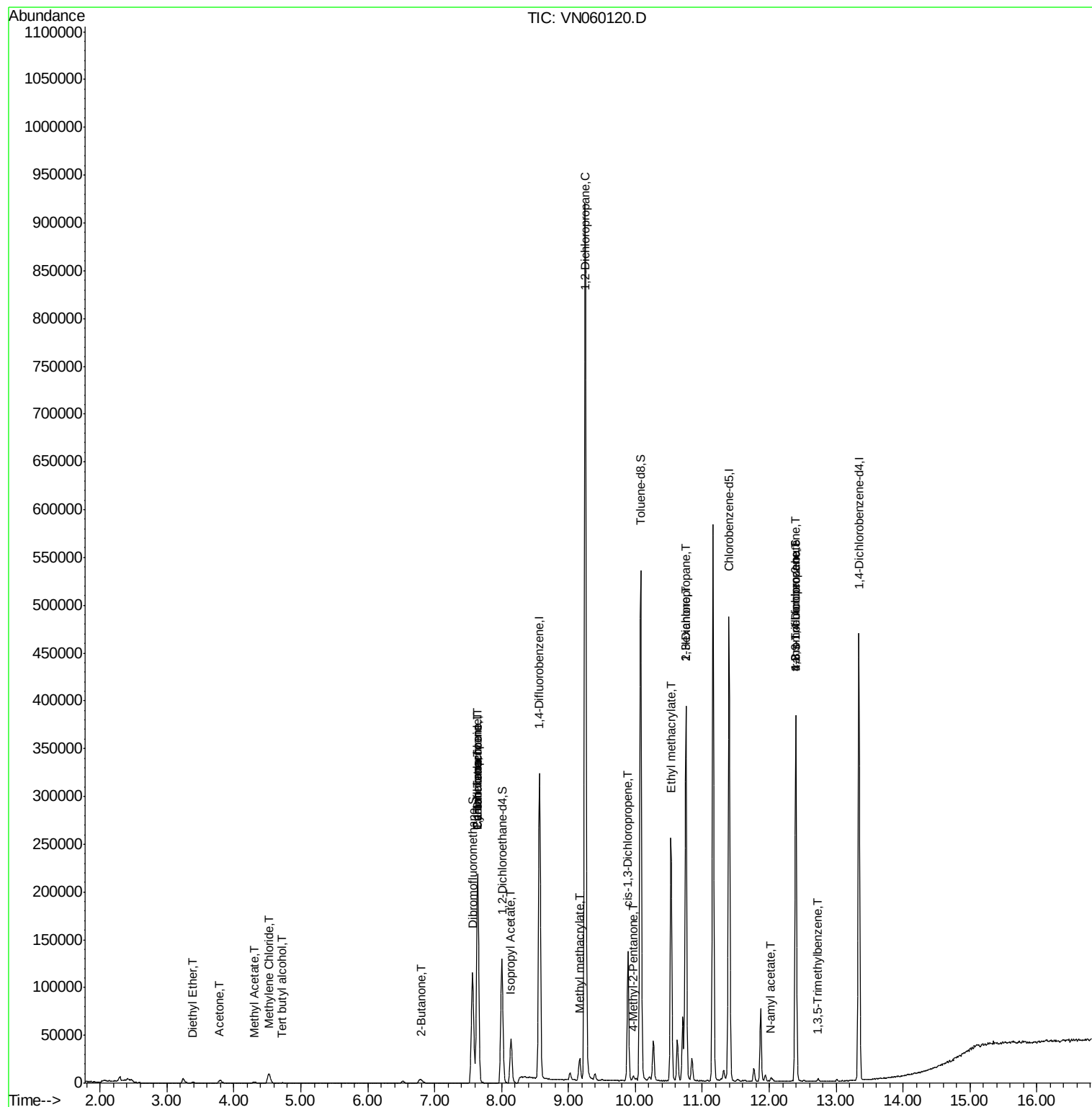
						Qvalue
8) Diethyl Ether	3.38	74	213	0.200	ug/l #	1
11) Tert butyl alcohol	4.72	59	880	2.644	ug/l #	72
16) Acetone	3.79	43	5375	5.541	ug/l	92
18) Methyl Acetate	4.30	43	759	0.416	ug/l #	50
20) Methylene Chloride	4.52	84	7809	4.035	ug/l	96
25) 2-Butanone	6.81	43	4529	3.712	ug/l #	82
31) Cyclohexane	7.65	56	3913	1.244	ug/l #	20
36) 1,1-Dichloropropene	7.64	75	13581	5.041	ug/l #	48
38) Carbon Tetrachloride	7.64	117	17306	5.915	ug/l #	15
43) Isopropyl Acetate	8.14	43	55662	13.374	ug/l #	89
45) 1,2-Dichloropropane	9.25	63	1090	0.551	ug/l #	43
48) Methyl methacrylate	9.16	41	3924	2.101	ug/l #	9
51) 4-Methyl-2-Pentanone	9.97	43	4056	1.684	ug/l #	84
54) cis-1,3-Dichloropropene	9.89	75	24423	7.229	ug/l #	61
56) Ethyl methacrylate	10.53	69	596	0.211	ug/l #	1
57) 1,3-Dichloropropane	10.75	76	3958	1.200	ug/l #	43
59) 2-Hexanone	10.75	43	59069	31.742	ug/l #	52
74) N-amyl acetate	12.02	43	3799	1.137	ug/l #	43
76) 1,2,3-Trichloropropane	12.40	75	68254	28.758	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	1828	0.237	ug/l	90
81) trans-1,4-Dichloro-2-buten	12.40	75	68254	70.414	ug/l #	12
92) 1,2-Dibromo-3-Chloropropan	14.29	75	64	Below Cal	#	1

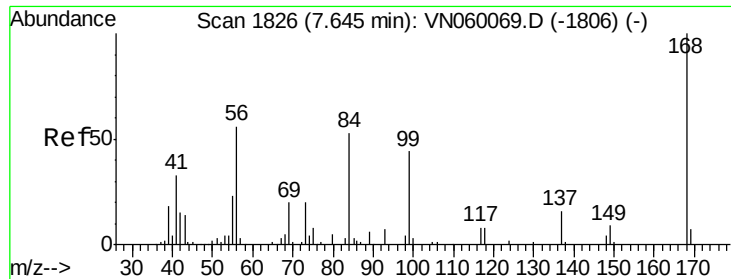
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Feb 17 16:56:38 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N021220W.M
Quant Title : SW846 8260
QLast Update : Wed Feb 12 14:12:21 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. -0.00 min

Lab File: VN060120.D

Acq: 17 Feb 2020 15:30

Instrument :

MSVOA_N

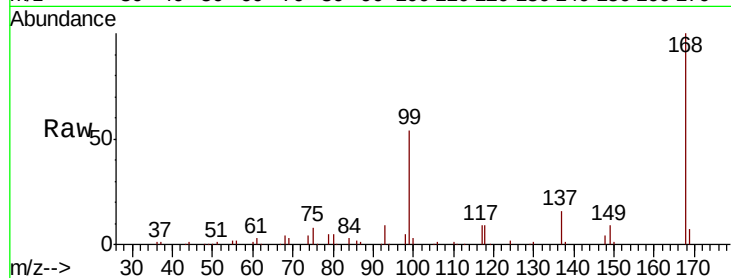
ClientSampled :

Tot Ion:168 Resp: 182774

Ion Ratio Lower Upper

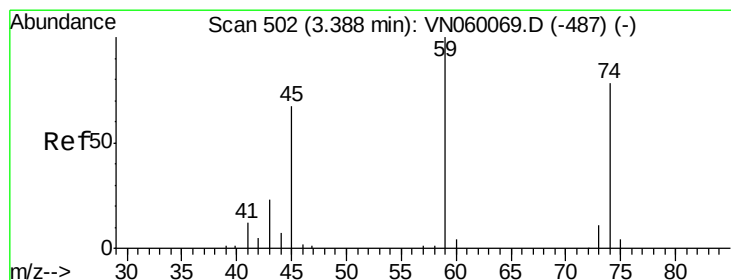
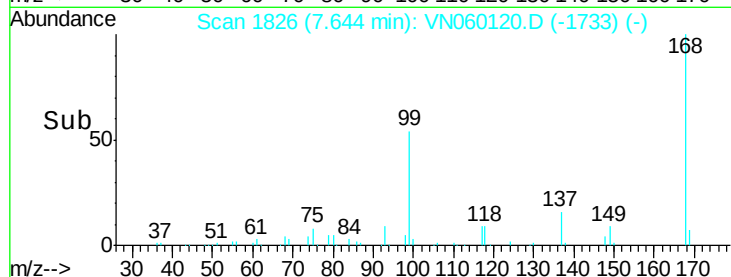
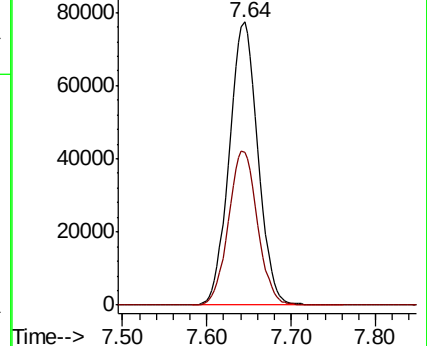
168 100

99 54.1 42.7 64.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#8

Diethyl Ether

Concen: 0.200 ug/l

RT: 3.38 min Scan# 500

Delta R.T. -0.01 min

Lab File: VN060120.D

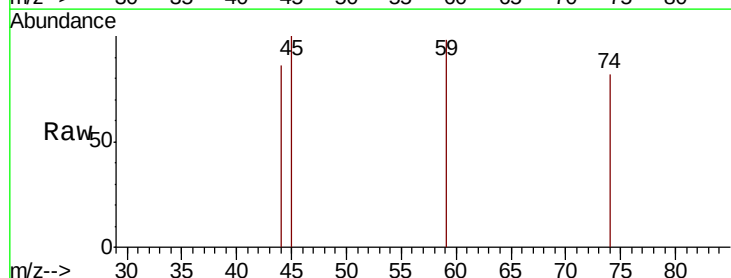
Acq: 17 Feb 2020 15:30

Tgt Ion: 74 Resp: 213

Ion Ratio Lower Upper

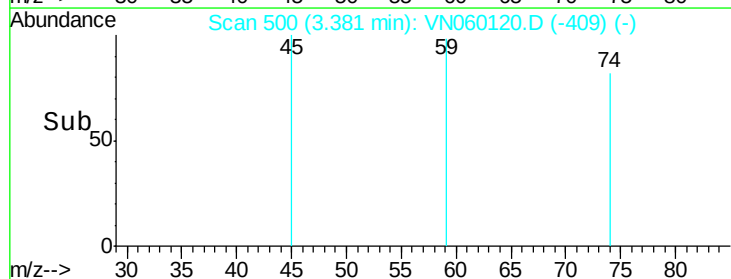
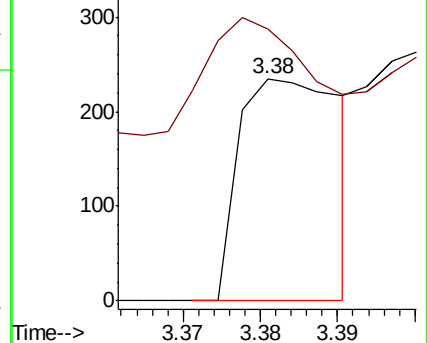
74 100

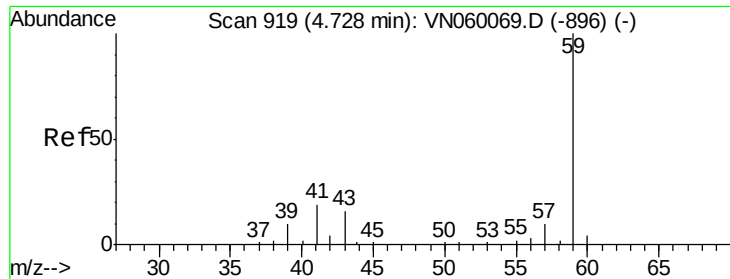
45 225.4 44.7 134.1#



Abundance Ion 74.00 (73.70 to 74.70): VN

Ion 45.00 (44.70 to 45.70): VN

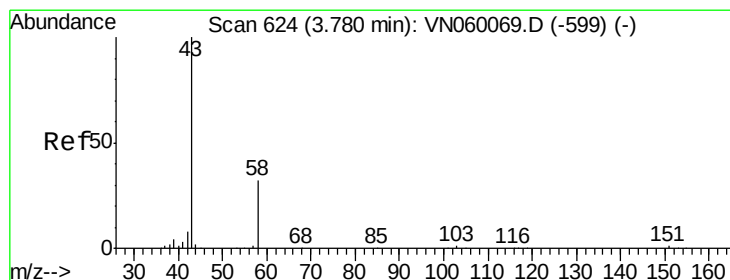
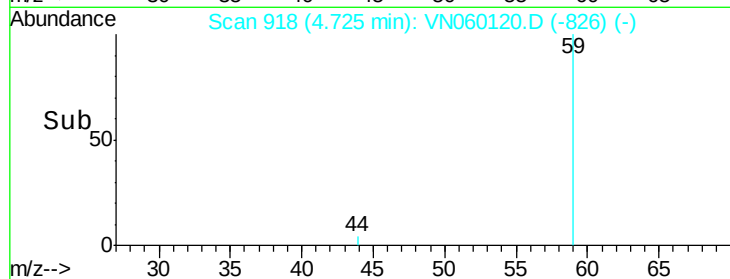
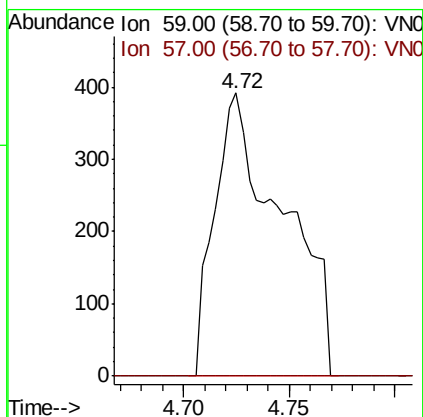
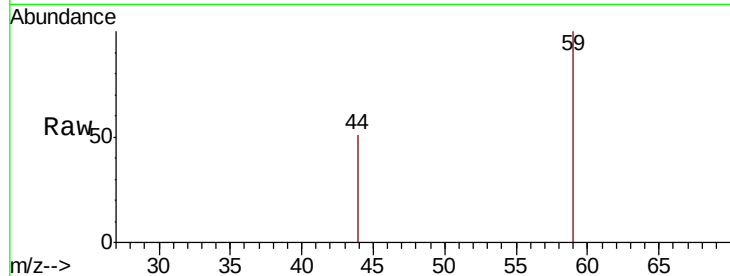




#11
Tert butyl alcohol
Concen: 2.644 ug/l
RT: 4.72 min Scan# 918
Delta R.T. -0.00 min
Lab File: VN060120.D
Acq: 17 Feb 2020 15:30

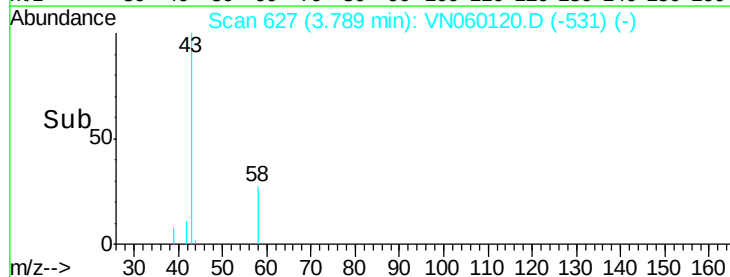
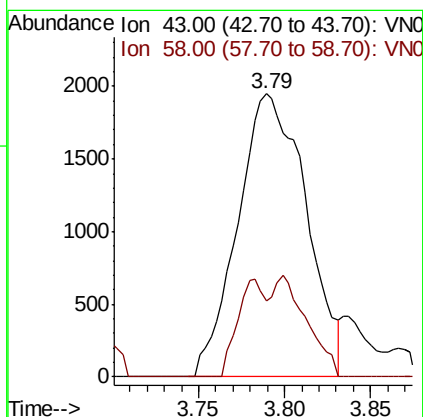
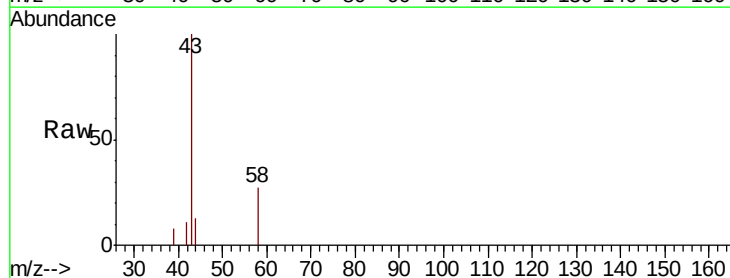
Instrument :
MSVOA_N
ClientSampled :

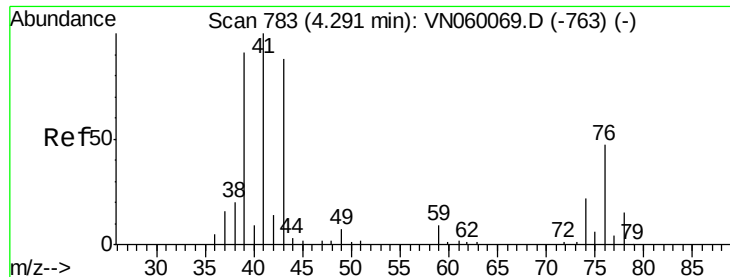
Tot Ion: 59 Resp: 880
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#



#16
Acetone
Concen: 5.541 ug/l
RT: 3.79 min Scan# 627
Delta R.T. 0.01 min
Lab File: VN060120.D
Acq: 17 Feb 2020 15:30

Tgt Ion: 43 Resp: 5375
Ion Ratio Lower Upper
43 100
58 27.1 25.2 37.8

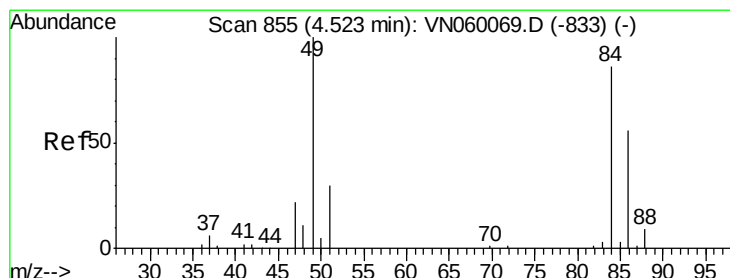
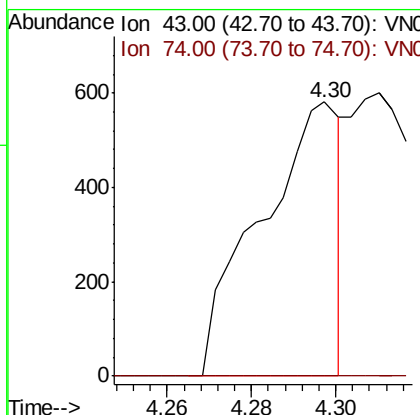
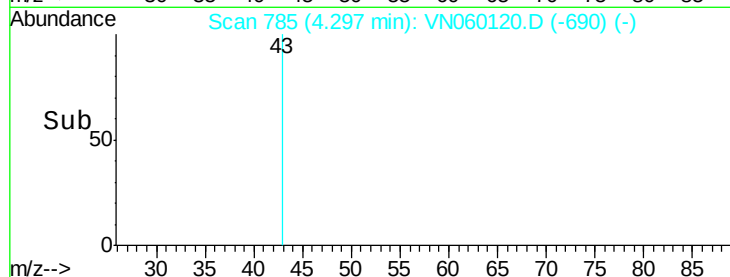
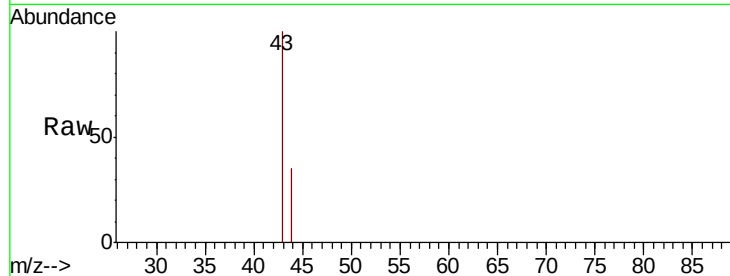




#18
Methvl Acetate
Concen: 0.416 ug/l
RT: 4.30 min Scan# 785
Delta R.T. 0.01 min
Lab File: VN060120.D
Acq: 17 Feb 2020 15:30

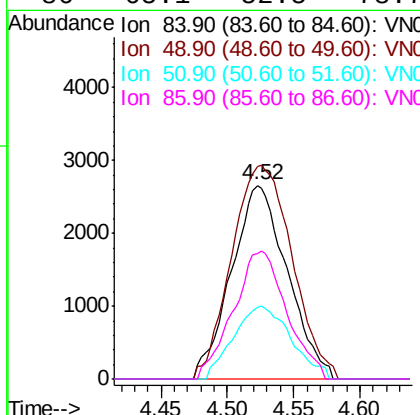
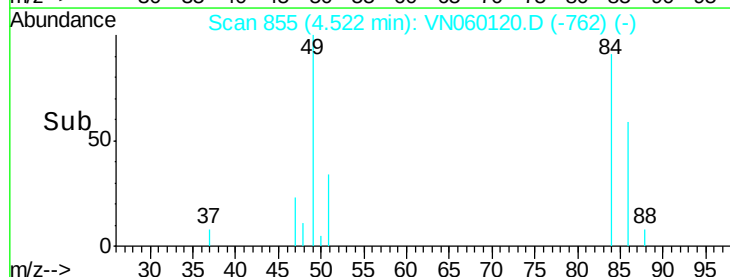
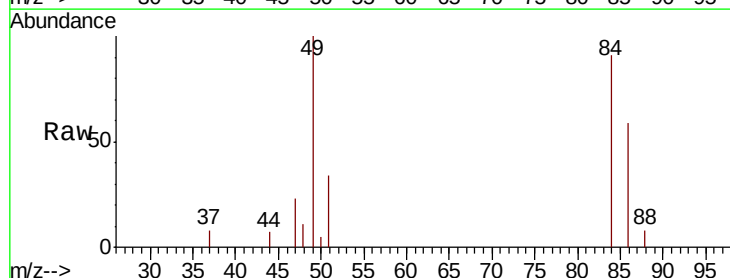
Instrument :
MSVOA_N
ClientSampleId :

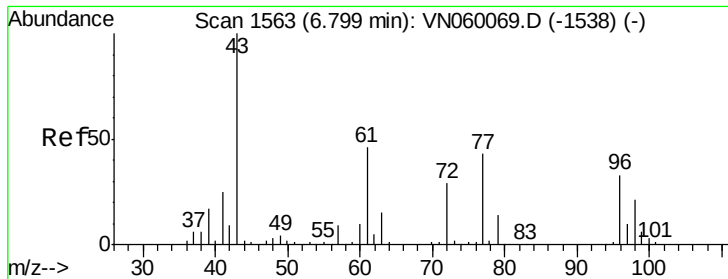
Tot Ion: 43 Resp: 759
Ion Ratio Lower Upper
43 100
74 0.0 20.3 30.5#



#20
Methylene Chloride
Concen: 4.035 ug/l
RT: 4.52 min Scan# 855
Delta R.T. -0.00 min
Lab File: VN060120.D
Acq: 17 Feb 2020 15:30

Tgt Ion: 84 Resp: 7809
Ion Ratio Lower Upper
84 100
49 109.9 93.4 140.0
51 37.2 28.4 42.6
86 65.1 52.5 78.7





#25

2-Butanone

Concen: 3.712 ug/l

RT: 6.81 min Scan# 1567

Delta R.T. 0.01 min

Lab File: VN060120.D

Acq: 17 Feb 2020 15:30

Instrument :

MSVOA_N

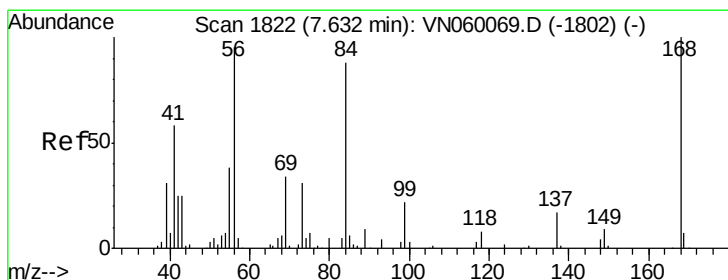
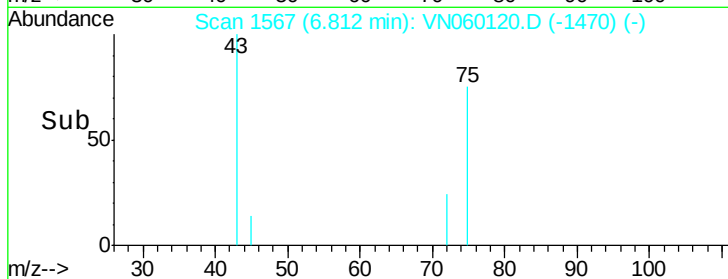
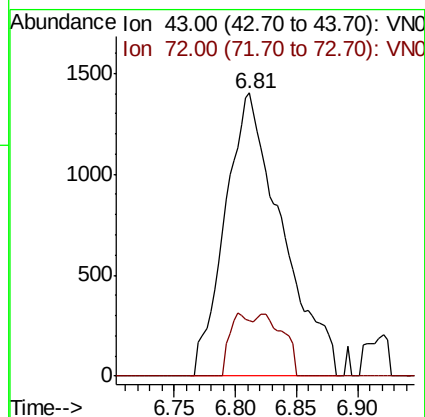
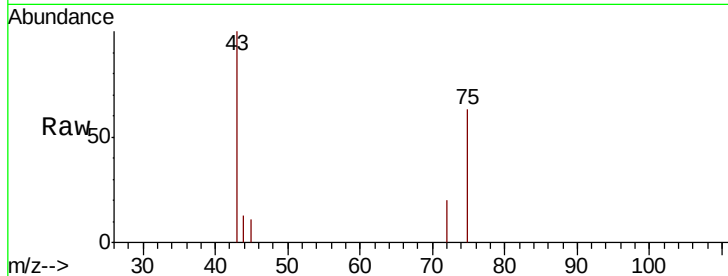
ClientSampleId :

Tot Ion: 43 Resp: 4529

Ion Ratio Lower Upper

43 100

72 19.6 23.3 34.9#



#31

Cyclohexane

Concen: 1.244 ug/l

RT: 7.65 min Scan# 1827

Delta R.T. 0.02 min

Lab File: VN060120.D

Acq: 17 Feb 2020 15:30

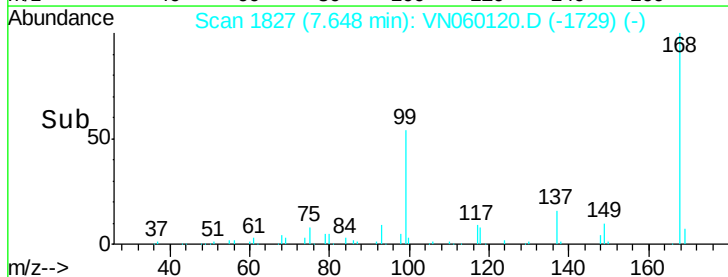
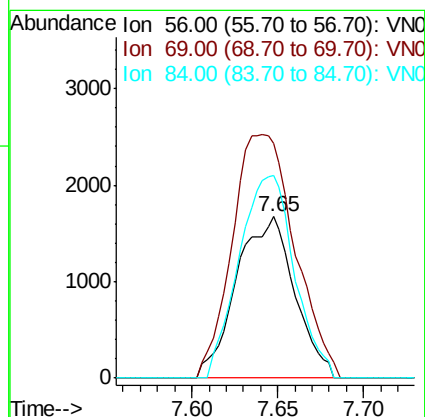
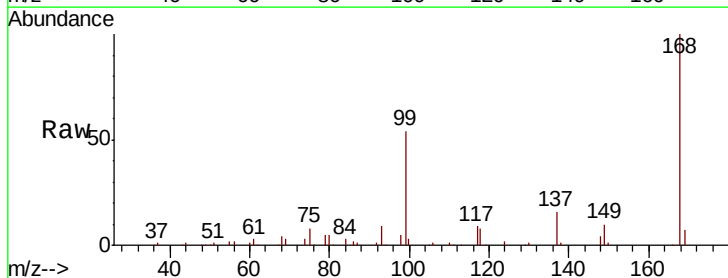
Tgt Ion: 56 Resp: 3913

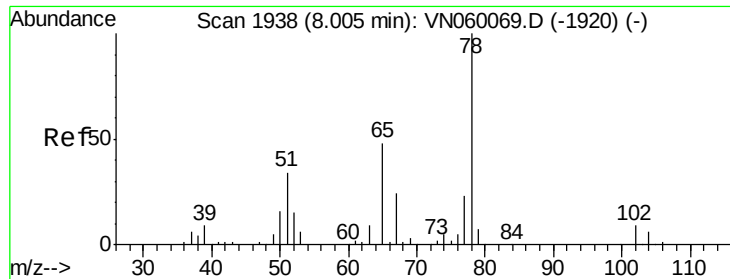
Ion Ratio Lower Upper

56 100

69 145.6 28.3 42.5#

84 126.0 72.6 108.8#

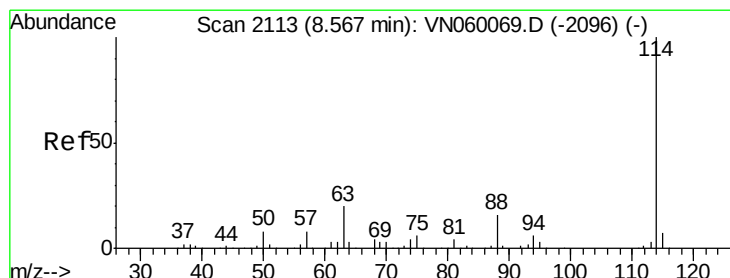
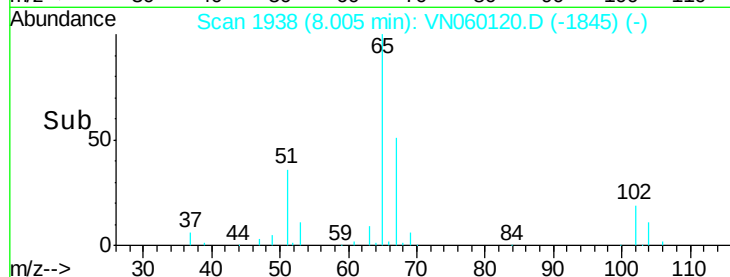
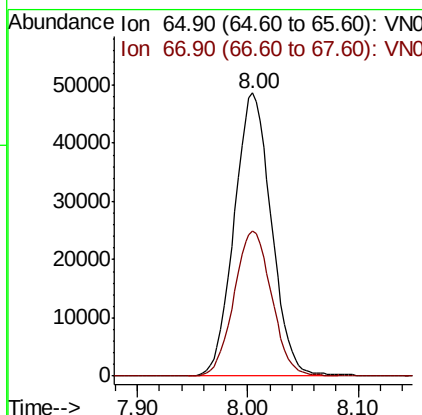
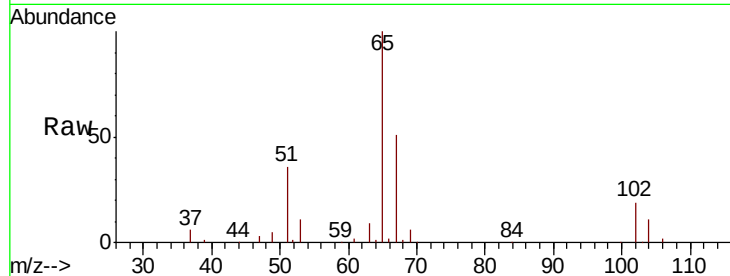




#33
 1,2-Dichloroethane-d4
 Concen: 51.003 ug/l
 RT: 8.00 min Scan# 1938
 Delta R.T. -0.00 min
 Lab File: VN060120.D
 Acq: 17 Feb 2020 15:30

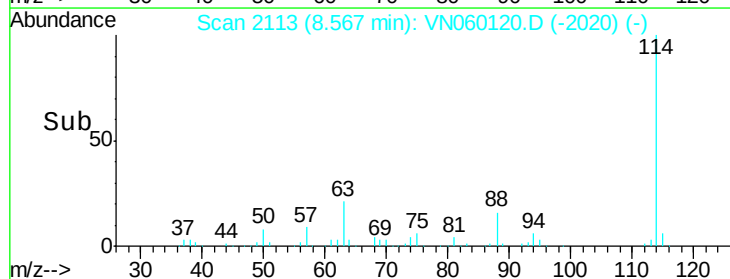
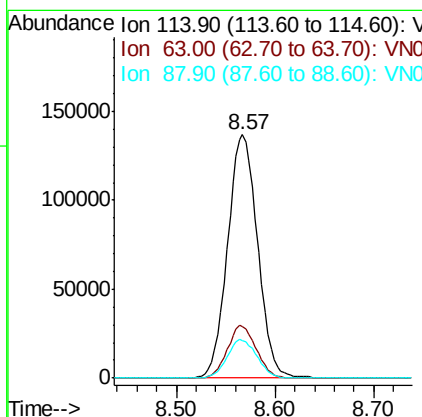
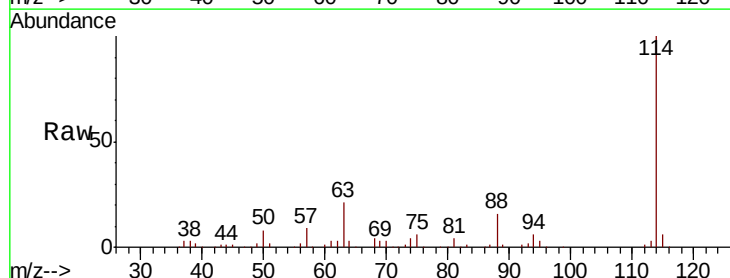
Instrument :
 MSVOA_N
 ClientSampleId :

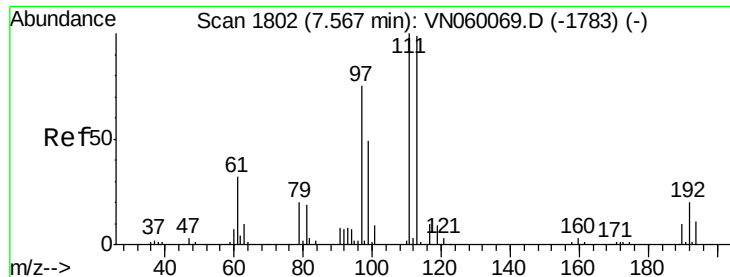
Tot Ion: 65 Resp: 113434
 Ion Ratio Lower Upper
 65 100
 67 52.0 0.0 104.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2113
 Delta R.T. -0.00 min
 Lab File: VN060120.D
 Acq: 17 Feb 2020 15:30

Tgt Ion: 114 Resp: 290852
 Ion Ratio Lower Upper
 114 100
 63 21.4 0.0 40.0
 88 15.5 0.0 31.6





#35

Dibromofluoromethane

Concen: 49.697 ug/l

RT: 7.57 min Scan# 1802

Delta R.T. -0.00 min

Lab File: VN060120.D

Acq: 17 Feb 2020 15:30

Instrument :
MSVOA_N
ClientSampleId :

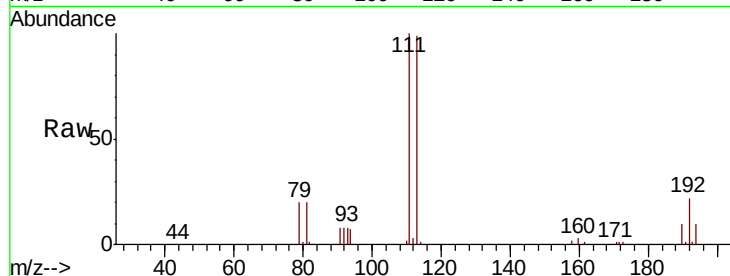
Tot Ion:113 Resp: 88852

Ion Ratio Lower Upper

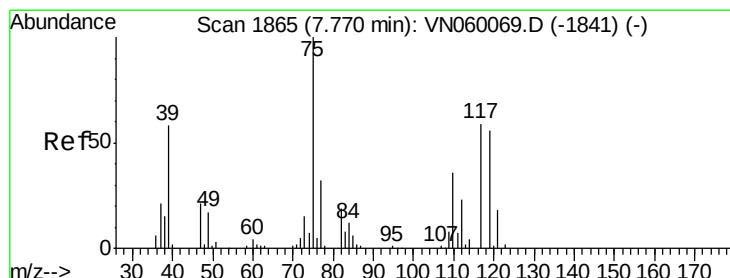
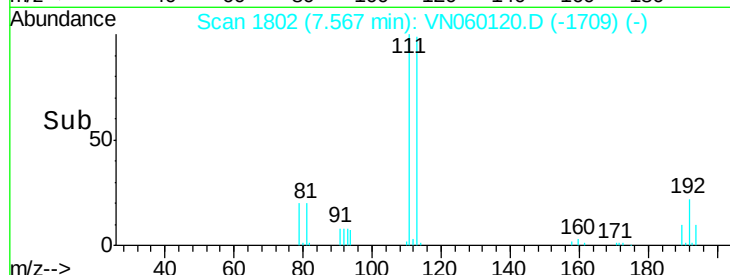
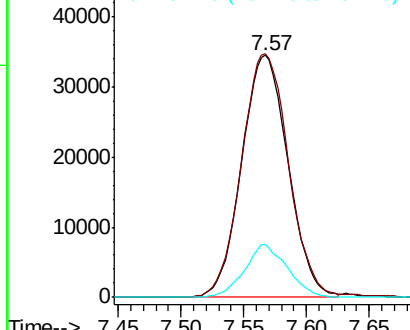
113 100

111 102.6 81.4 122.2

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



#36

1,1-Dichloropropene

Concen: 5.041 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. -0.13 min

Lab File: VN060120.D

Acq: 17 Feb 2020 15:30

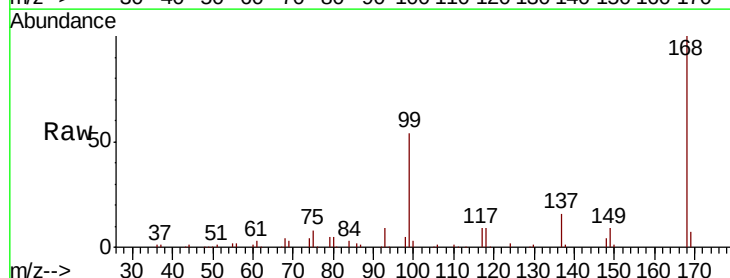
Tgt Ion: 75 Resp: 13581

Ion Ratio Lower Upper

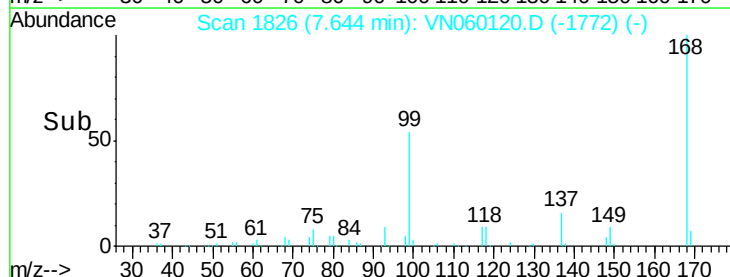
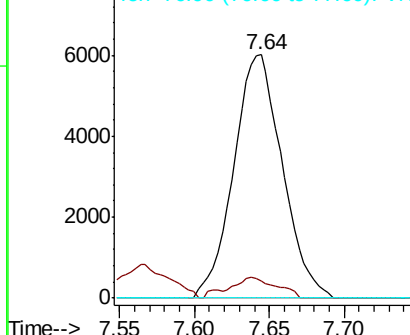
75 100

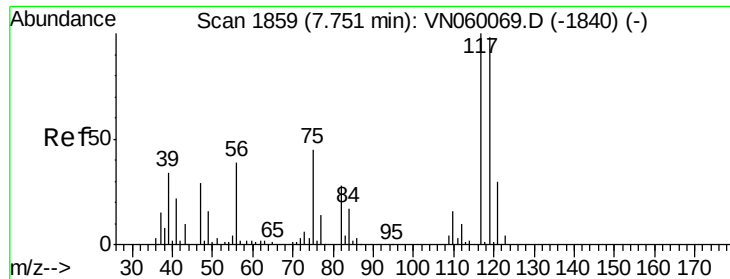
110 8.2 18.1 54.3#

77 0.0 25.1 37.7#



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

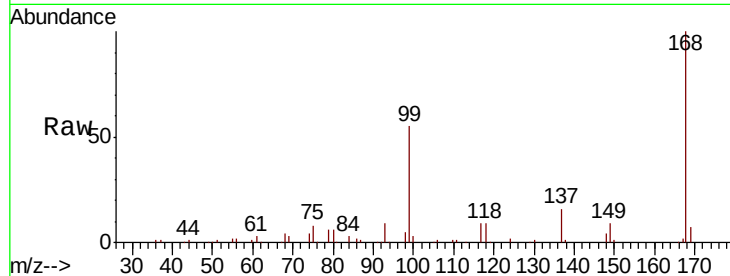




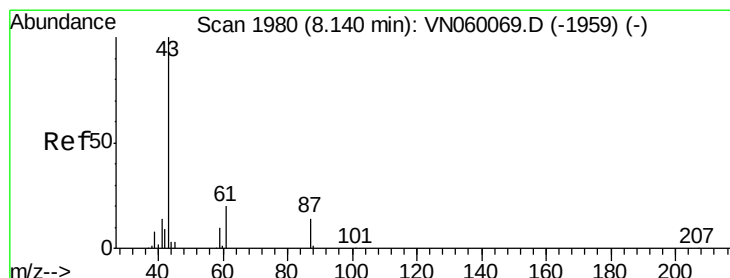
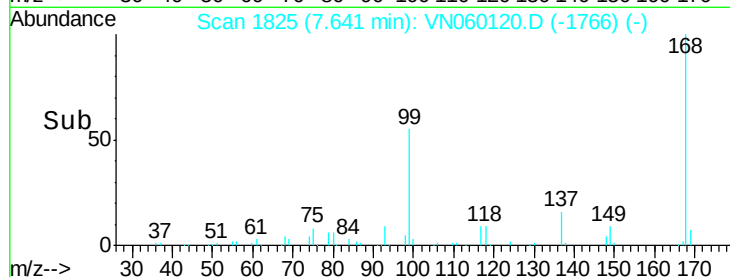
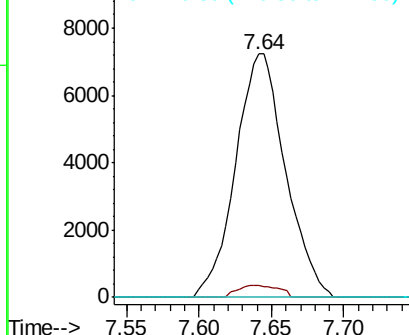
#38
Carbon Tetrachloride
Concen: 5.915 ug/l
RT: 7.64 min Scan# 1825
Delta R.T. -0.11 min
Lab File: VN060120.D
Acq: 17 Feb 2020 15:30

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:117 Resp: 17306
Ion Ratio Lower Upper
117 100
119 4.9 78.2 117.4#
121 0.0 24.2 36.2#

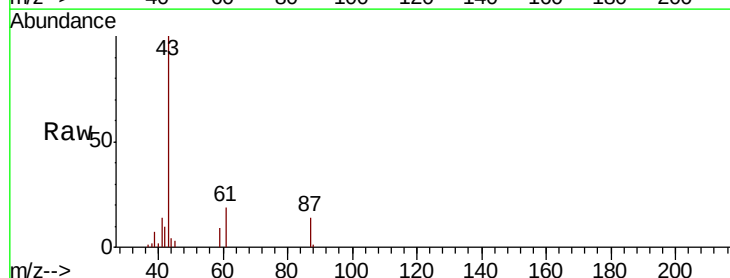


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

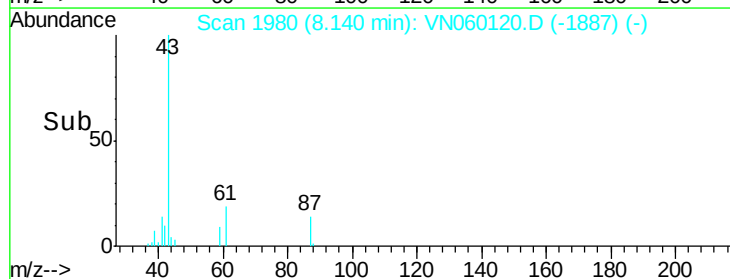
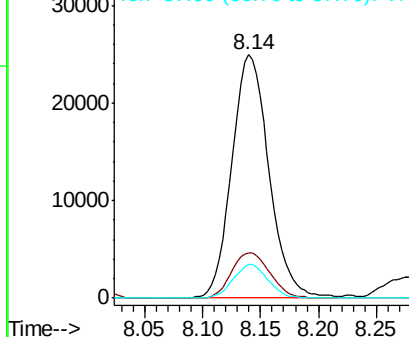


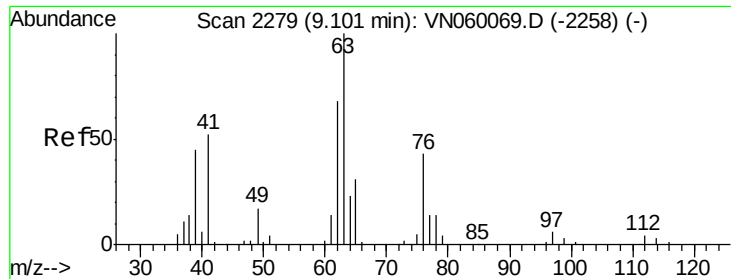
#43
Isopropyl Acetate
Concen: 13.374 ug/l
RT: 8.14 min Scan# 1980
Delta R.T. -0.00 min
Lab File: VN060120.D
Acq: 17 Feb 2020 15:30

Tgt Ion: 43 Resp: 55662
Ion Ratio Lower Upper
43 100
61 19.2 21.8 32.6#
87 12.8 11.4 17.2



Abundance Ion 43.00 (42.70 to 43.70): V
Ion 61.00 (60.70 to 61.70): V
Ion 87.00 (86.70 to 87.70): V

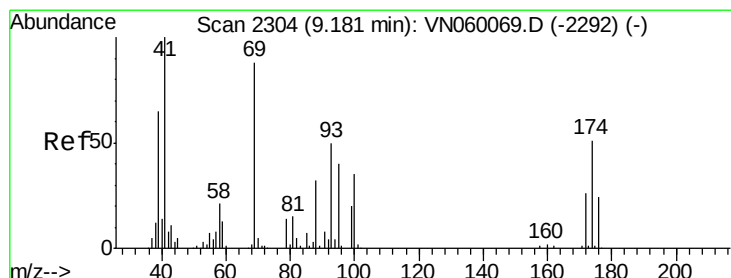
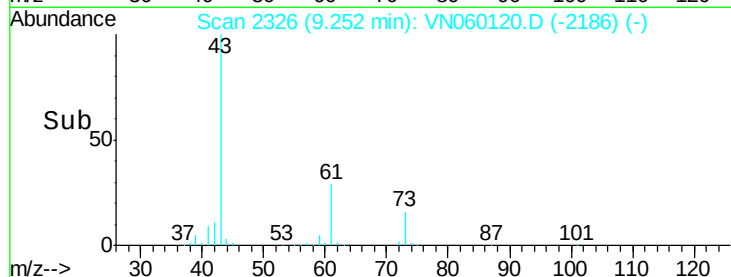
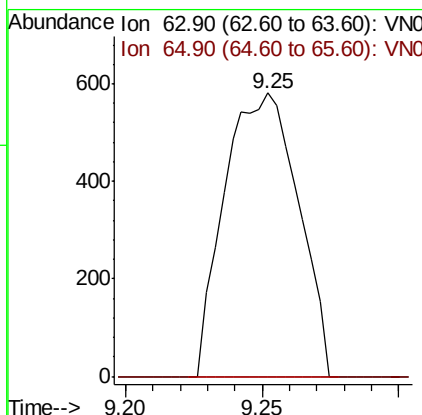
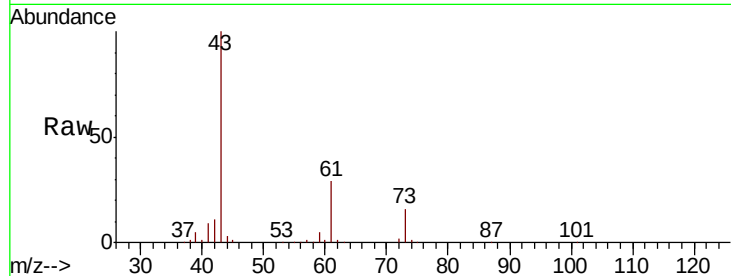




#45
 1,2-Dichloropropane
 Concen: 0.551 ug/l
 RT: 9.25 min Scan# 2326
 Delta R.T. 0.15 min
 Lab File: VN060120.D
 Acq: 17 Feb 2020 15:30

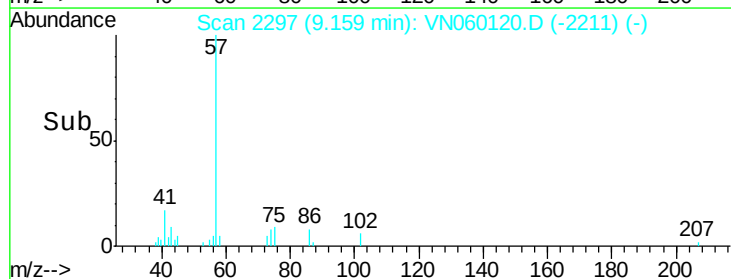
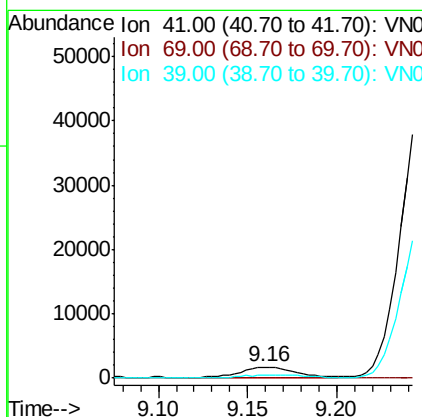
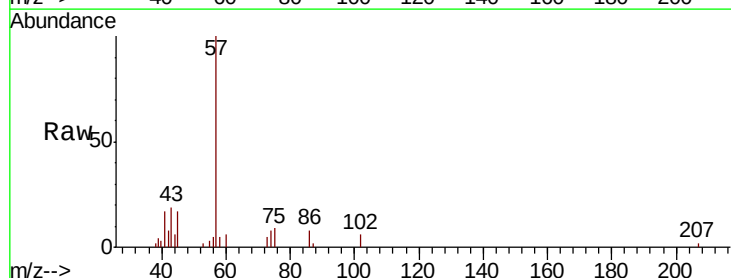
Instrument :
 MSVOA_N
 ClientSampleId :

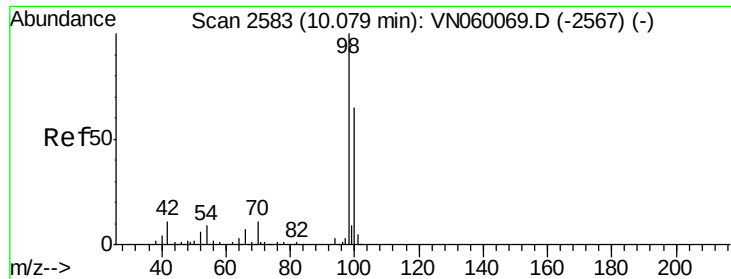
Tot Ion: 63 Resp: 1090
 Ion Ratio Lower Upper
 63 100
 65 0.0 25.0 37.4#



#48
 Methyl methacrylate
 Concen: 2.101 ug/l
 RT: 9.16 min Scan# 2297
 Delta R.T. -0.02 min
 Lab File: VN060120.D
 Acq: 17 Feb 2020 15:30

Tgt Ion: 41 Resp: 3924
 Ion Ratio Lower Upper
 41 100
 69 0.0 72.0 108.0#
 39 0.0 54.1 81.1#





#50

Toluene-d8

Concen: 50.857 ug/l

RT: 10.08 min Scan# 2583

Delta R.T. -0.00 min

Lab File: VN060120.D

Acq: 17 Feb 2020 15:30

Instrument :

MSVOA_N

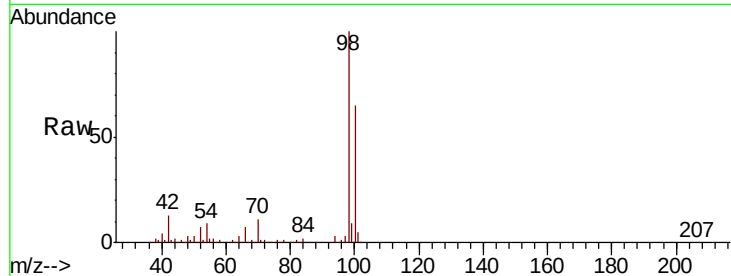
ClientSampled :

Tot Ion: 98 Resp: 358058

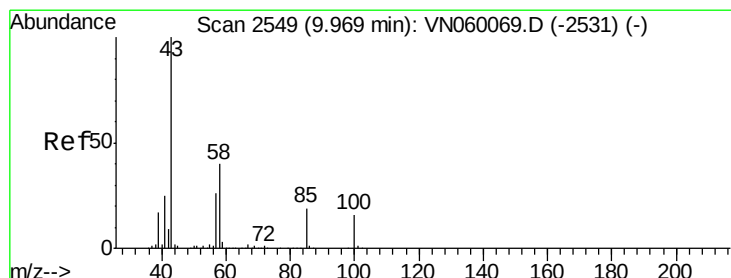
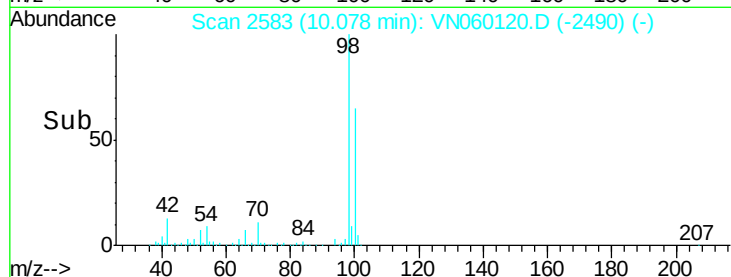
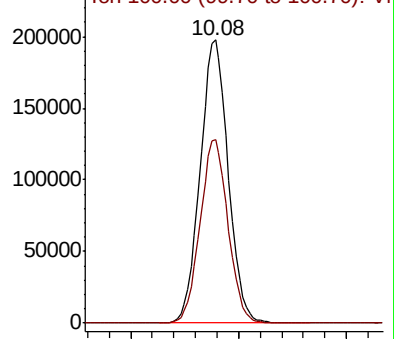
Ion Ratio Lower Upper

98 100

100 64.5 51.7 77.5



Abundance Ion 98.00 (97.70 to 98.70): VN060120.D (-2490) (-)



#51

4-Methyl-2-Pentanone

Concen: 1.684 ug/l

RT: 9.97 min Scan# 2549

Delta R.T. -0.00 min

Lab File: VN060120.D

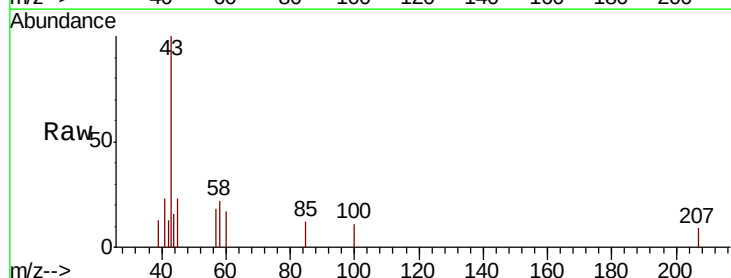
Acq: 17 Feb 2020 15:30

Tgt Ion: 43 Resp: 4056

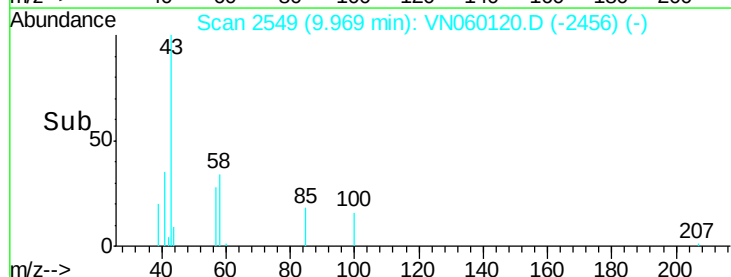
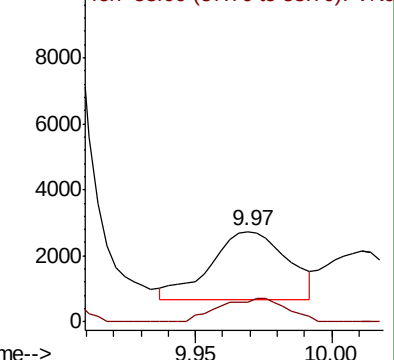
Ion Ratio Lower Upper

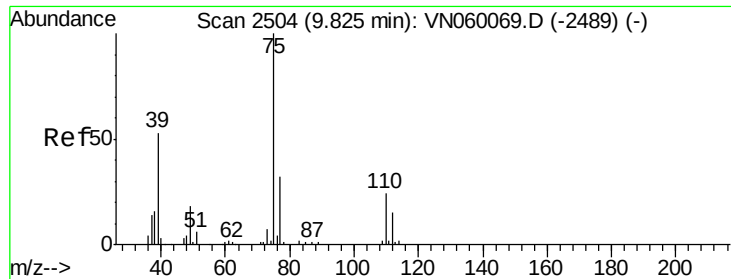
43 100

58 29.9 31.8 47.8#



Abundance Ion 43.00 (42.70 to 43.70): VN060120.D (-2456) (-)





#54

cis-1,3-Dichloropropene

Concen: 7.229 ug/l

RT: 9.89 min Scan# 2524

Delta R.T. 0.06 min

Lab File: VN060120.D

Acq: 17 Feb 2020 15:30

Instrument :

MSVOA_N

ClientSampleId :

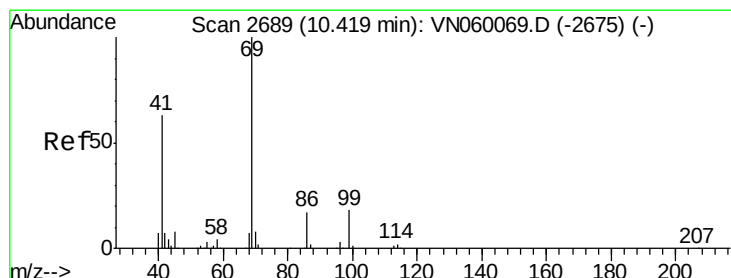
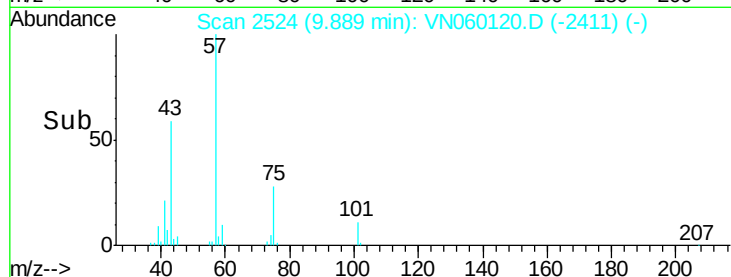
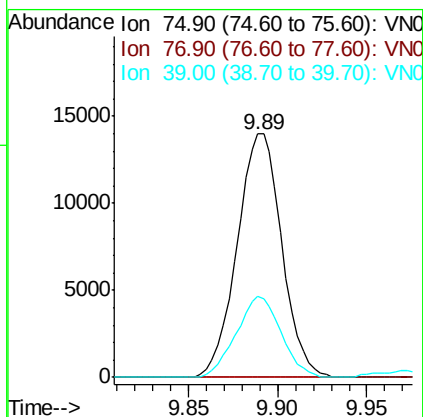
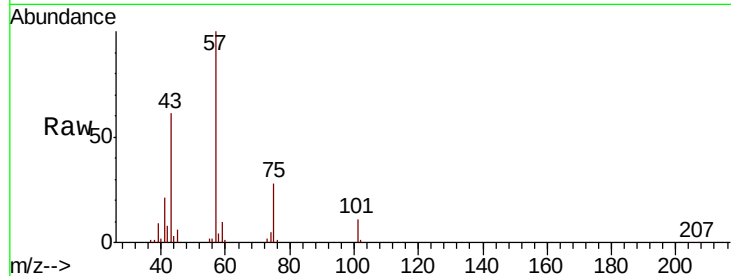
Tot Ion: 75 Resp: 24423

Ion Ratio Lower Upper

75 100

77 0.0 25.6 38.4#

39 33.1 42.2 63.4#



#56

Ethyl methacrylate

Concen: 0.211 ug/l

RT: 10.53 min Scan# 2723

Delta R.T. 0.11 min

Lab File: VN060120.D

Acq: 17 Feb 2020 15:30

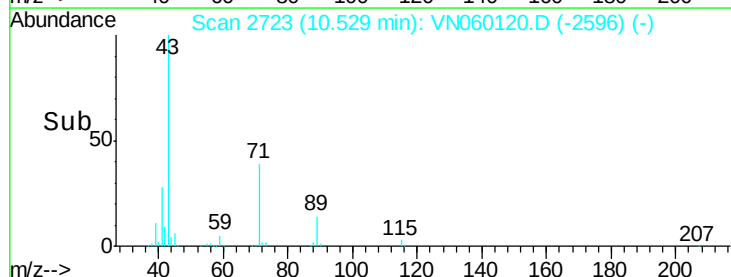
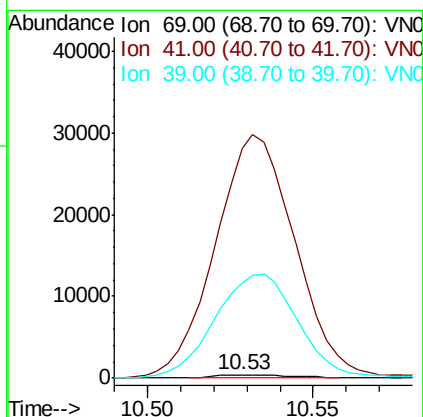
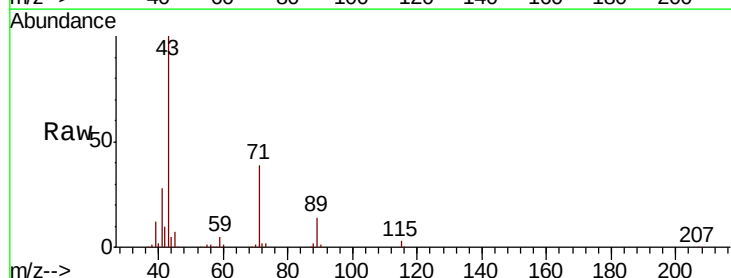
Tgt Ion: 69 Resp: 596

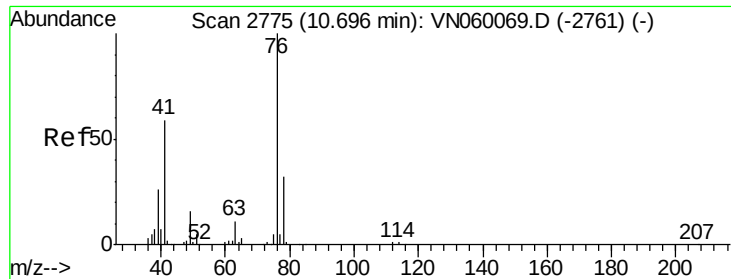
Ion Ratio Lower Upper

69 100

41 8449.7 51.1 76.7#

39 3718.8 33.8 50.8#





#57

1,3-Dichloropropane

Concen: 1.200 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.06 min

Lab File: VN060120.D

Acq: 17 Feb 2020 15:30

Instrument :

MSVOA_N

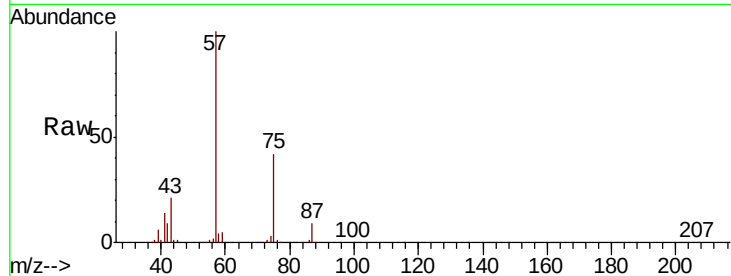
ClientSampled :

Tot Ion: 76 Resp: 3958

Ion Ratio Lower Upper

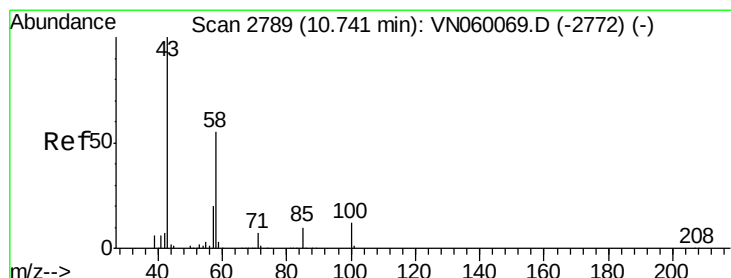
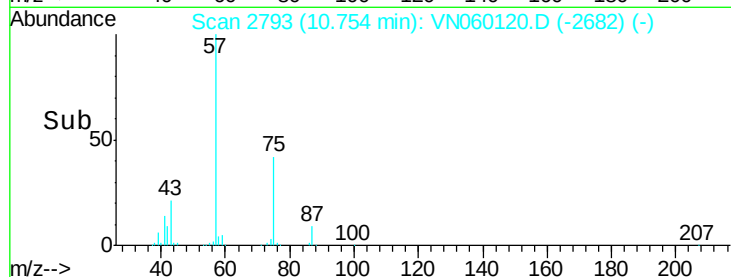
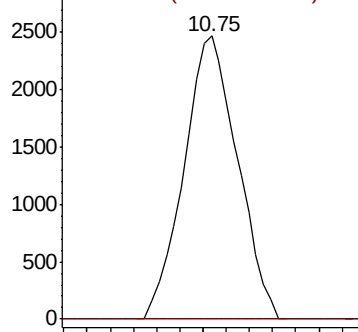
76 100

78 0.0 25.7 38.5#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



#59

2-Hexanone

Concen: 31.742 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.01 min

Lab File: VN060120.D

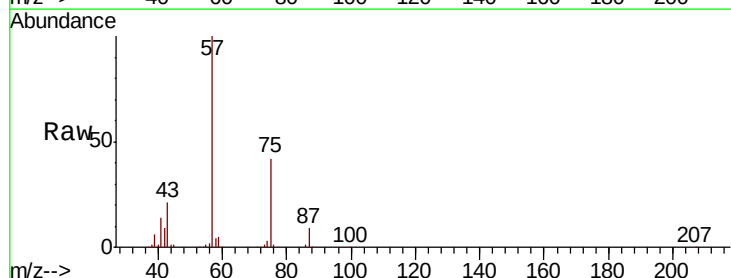
Acq: 17 Feb 2020 15:30

Tgt Ion: 43 Resp: 59069

Ion Ratio Lower Upper

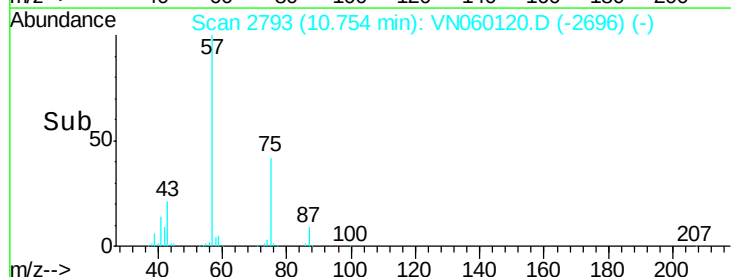
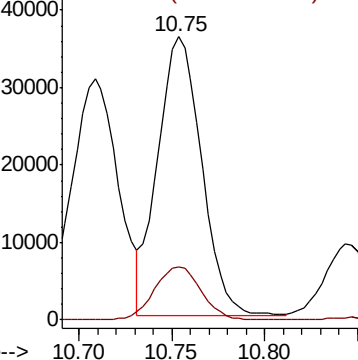
43 100

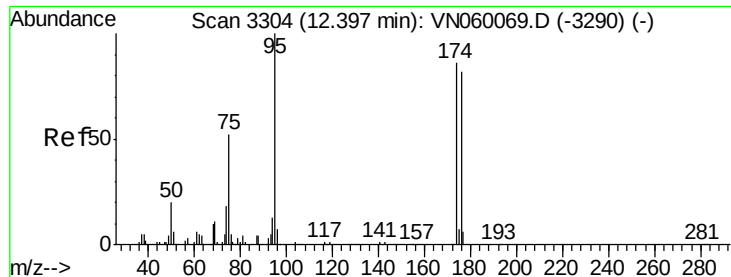
58 20.2 27.5 82.4#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#62

4-Bromofluorobenzene

Concen: 49.808 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.00 min

Lab File: VN060120.D

Acq: 17 Feb 2020 15:30

Instrument :

MSVOA_N

ClientSampleId :

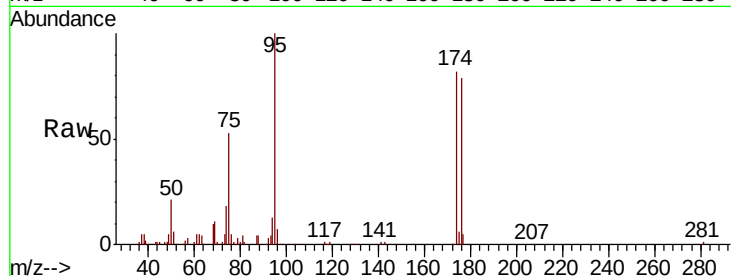
Tot Ion: 95 Resp: 128857

Ion Ratio Lower Upper

95 100

174 82.8 0.0 169.8

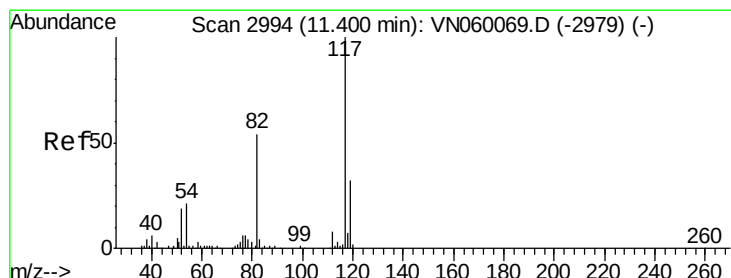
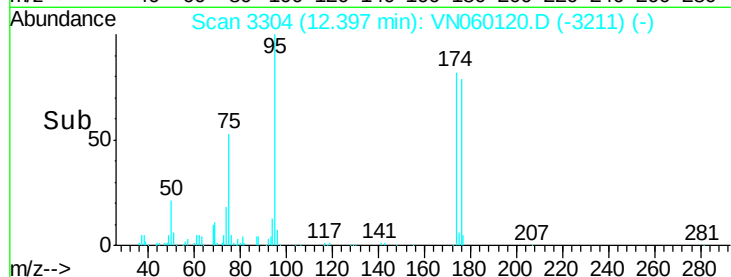
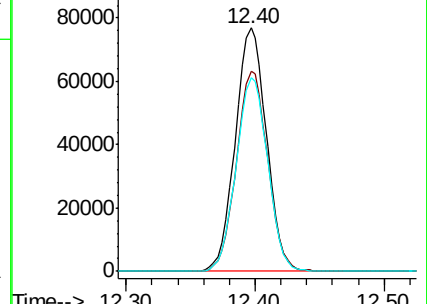
176 80.8 0.0 164.8



Abundance Ion 94.90 (94.60 to 95.60): VN060120.D (-3290) (-)

Ion 173.80 (173.50 to 174.50): VN060120.D (-3290) (-)

Ion 175.80 (175.50 to 176.50): VN060120.D (-3290) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.40 min Scan# 2994

Delta R.T. -0.00 min

Lab File: VN060120.D

Acq: 17 Feb 2020 15:30

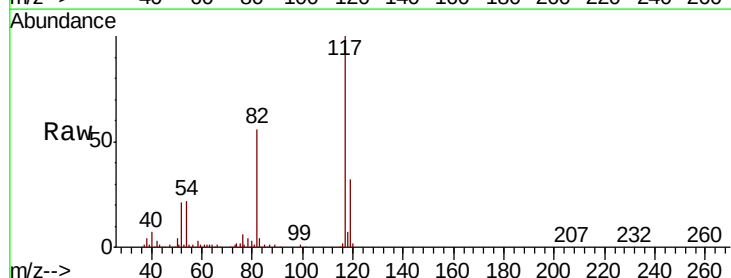
Tgt Ion: 117 Resp: 275596

Ion Ratio Lower Upper

117 100

82 56.1 43.4 65.0

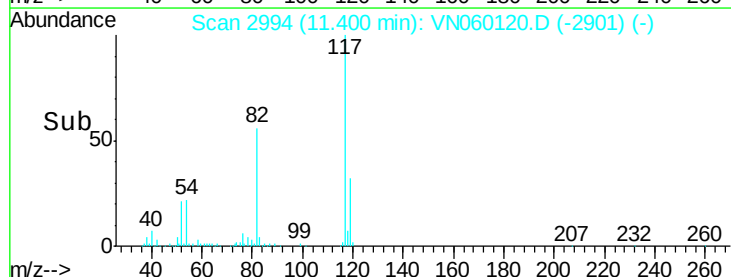
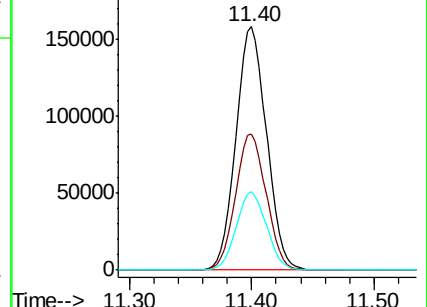
119 32.0 25.8 38.6

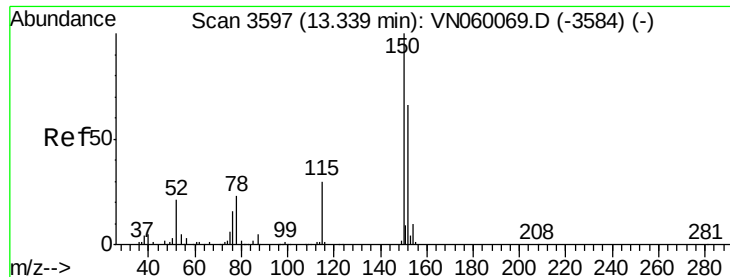


Abundance Ion 116.90 (116.60 to 117.60): VN060120.D (-2979) (-)

Ion 82.00 (81.70 to 82.70): VN060120.D (-2979) (-)

Ion 118.90 (118.60 to 119.60): VN060120.D (-2979) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3597

Delta R.T. -0.00 min

Lab File: VN060120.D

Acq: 17 Feb 2020 15:30

Instrument :

MSVOA_N

ClientSampleId :

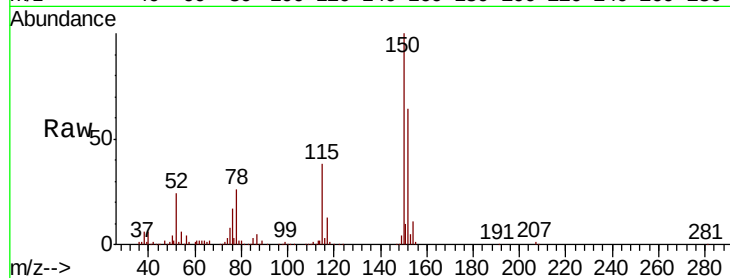
Tot Ion:152 Resp: 124052

Ion Ratio Lower Upper

152 100

115 58.7 28.9 86.8

150 156.8 0.0 342.4

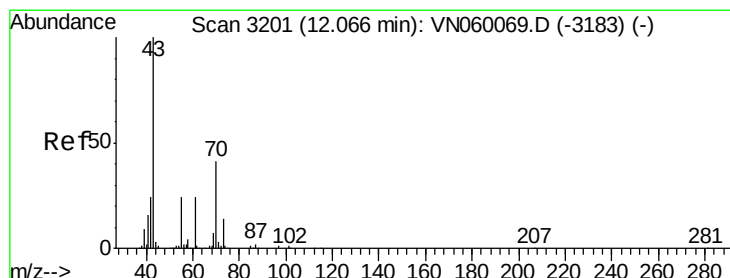
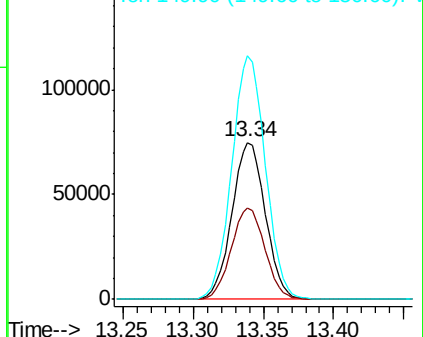
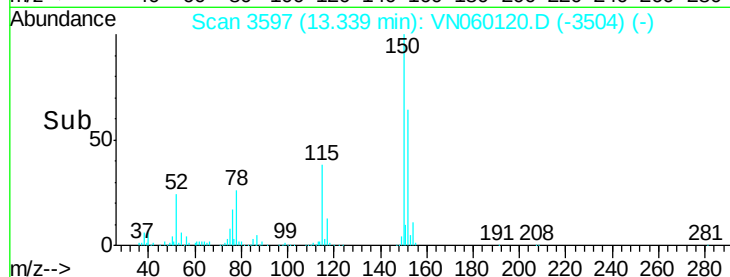


Abundance

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-amil acetate

Concen: 1.137 ug/l

RT: 12.02 min Scan# 3188

Delta R.T. -0.04 min

Lab File: VN060120.D

Acq: 17 Feb 2020 15:30

Tgt Ion: 43 Resp: 3799

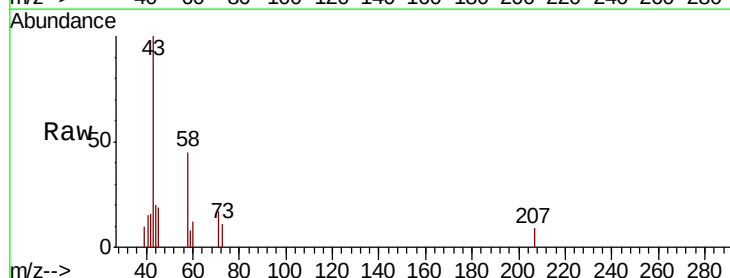
Ion Ratio Lower Upper

43 100

70 0.0 33.4 50.0#

55 0.0 18.8 28.2#

61 0.0 19.2 28.8#



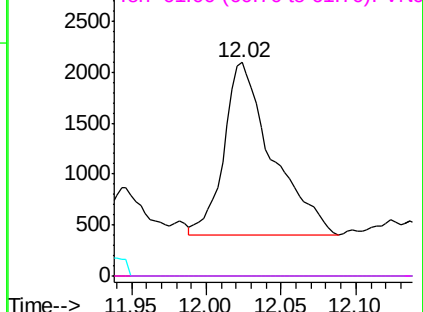
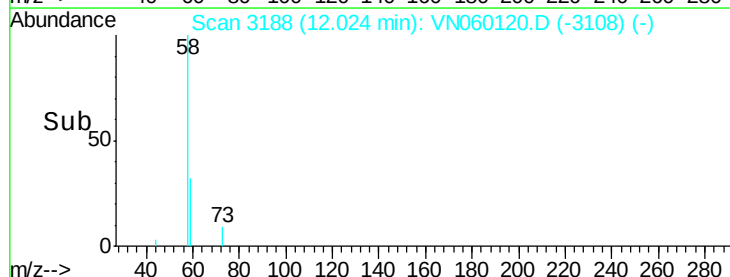
Abundance

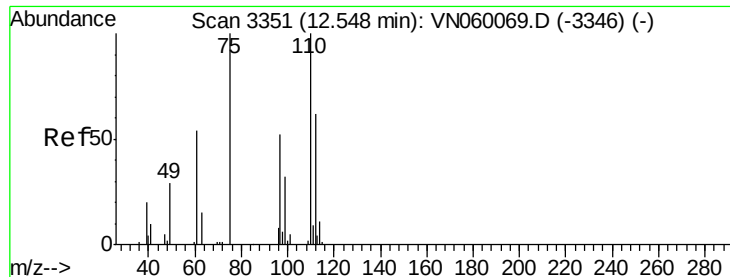
Ion 43.00 (42.70 to 43.70): VN0

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: 28.758 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN060120.D

Acq: 17 Feb 2020 15:30

Instrument :

MSVOA_N

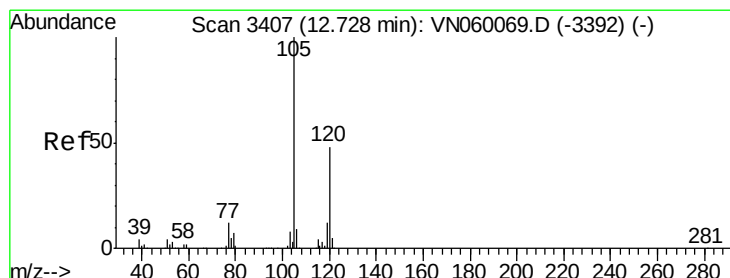
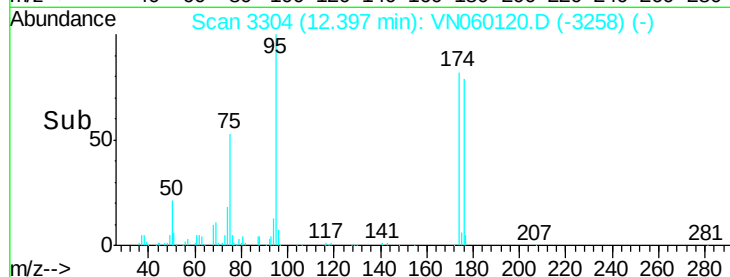
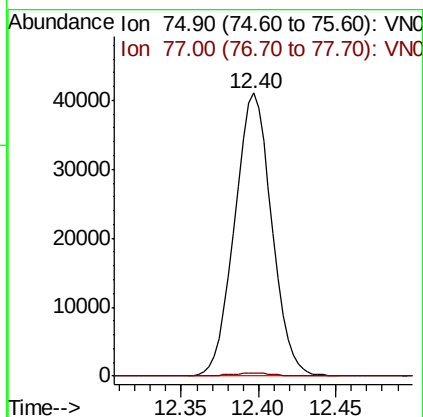
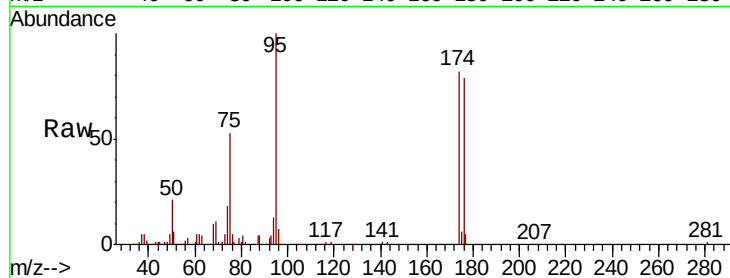
ClientSampleId :

Tot Ion: 75 Resp: 68254

Ion Ratio Lower Upper

75 100

77 1.1 0.0 0.0#



#80

1,3,5-Trimethylbenzene

Concen: 0.237 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. 0.00 min

Lab File: VN060120.D

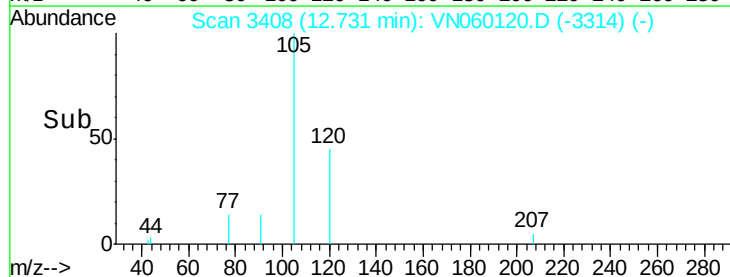
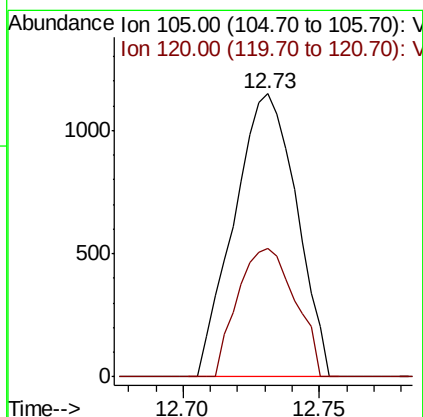
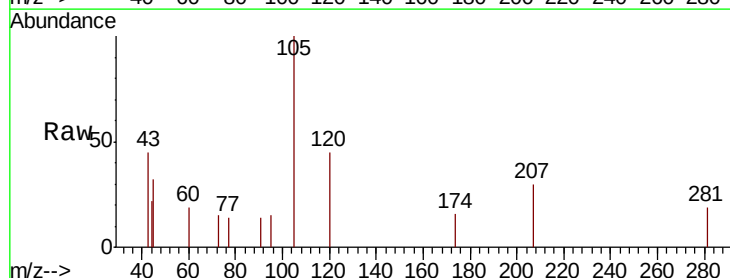
Acq: 17 Feb 2020 15:30

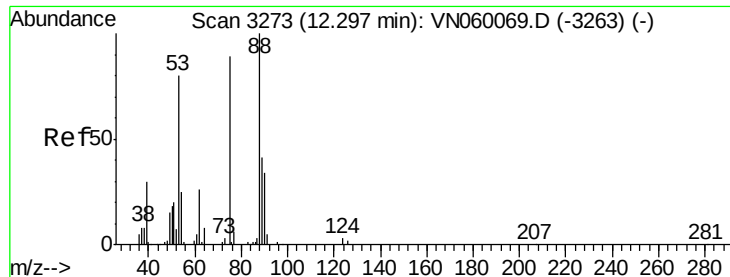
Tgt Ion: 105 Resp: 1828

Ion Ratio Lower Upper

105 100

120 41.8 24.3 72.9





#81

trans-1,4-Dichloro-2-butene

Concen: 70.414 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.10 min

Lab File: VN060120.D

Acq: 17 Feb 2020 15:30

Instrument :

MSVOA_N

ClientSampled :

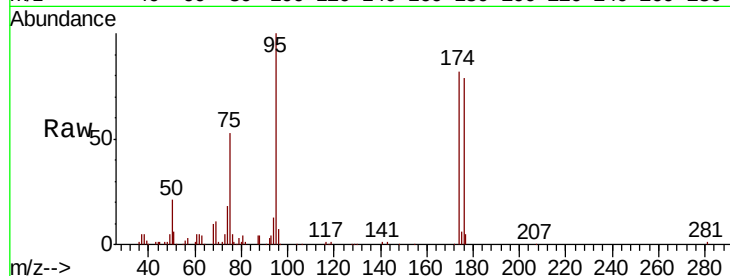
Tot Ion: 75 Resp: 68254

Ion Ratio Lower Upper

75 100

53 0.0 73.9 110.9#

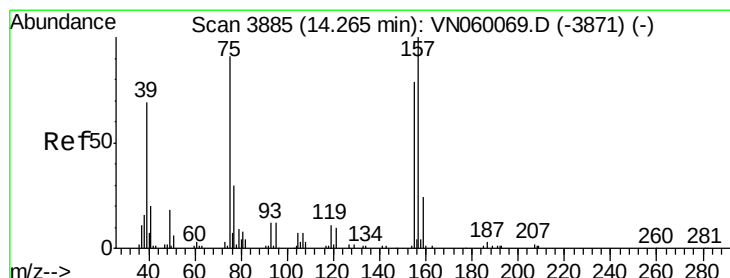
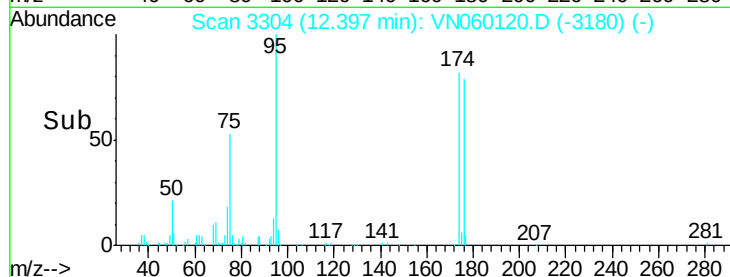
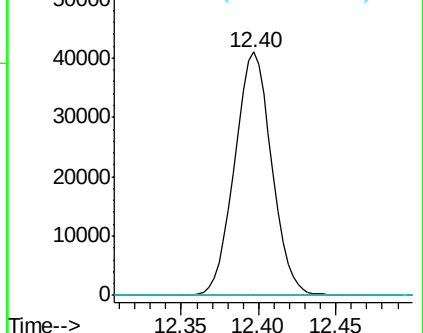
89 0.0 37.0 55.4#



Abundance Ion 74.90 (74.60 to 75.60): VN060120.D (-3180) (-)

Ion 53.00 (52.70 to 53.70): VN060120.D (-3180) (-)

Ion 88.90 (88.60 to 89.60): VN060120.D (-3180) (-)



#92

1,2-Dibromo-3-Chloropropane

Concen: Below Cal

RT: 14.29 min Scan# 3892

Delta R.T. 0.02 min

Lab File: VN060120.D

Acq: 17 Feb 2020 15:30

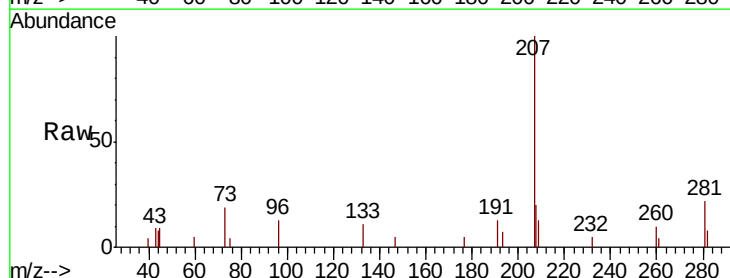
Tgt Ion: 75 Resp: 64

Ion Ratio Lower Upper

75 100

155 0.0 43.0 129.0#

157 0.0 54.9 164.5#



Abundance Ion 74.90 (74.60 to 75.60): VN060120.D (-3791) (-)

Ion 154.80 (154.50 to 155.50): VN060120.D (-3791) (-)

Ion 156.80 (156.50 to 157.50): VN060120.D (-3791) (-)

