

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN040820\
 Data File : VN060903.D
 Acq On : 8 Apr 2020 16:02
 Operator : JC/MD
 Sample : L2185-03
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Apr 09 08:28:33 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N031820W.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 18 08:49:09 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	202030	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	335846	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	313116	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	141473	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.00	65	128693	46.40	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.80%	
35) Dibromofluoromethane	7.56	113	99778	49.13	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.26%	
50) Toluene-d8	10.08	98	413593	49.86	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.72%	
62) 4-Bromofluorobenzene	12.40	95	153924	50.63	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.26%	

Target Compounds

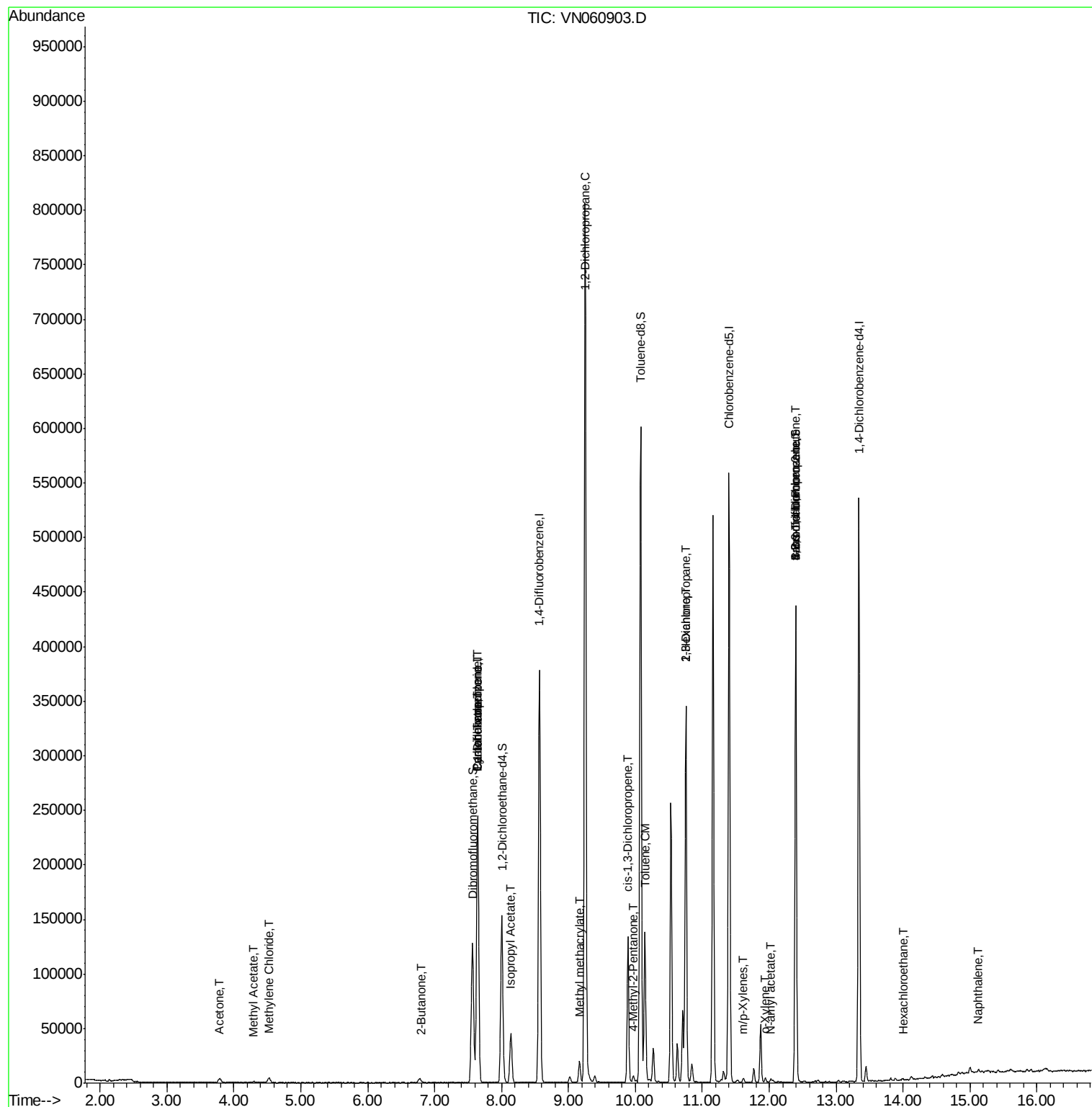
					Qvalue	
16) Acetone	3.78	43	7651	7.788	ug/l	98
18) Methyl Acetate	4.29	43	1772	0.641	ug/l #	67
20) Methylene Chloride	4.52	84	3272	1.354	ug/l	96
25) 2-Butanone	6.80	43	577	0.363	ug/l #	50
31) Cyclohexane	7.64	56	4078	0.913	ug/l #	1
36) 1,1-Dichloropropene	7.64	75	15715	4.832	ug/l #	50
38) Carbon Tetrachloride	7.64	117	19667	6.748	ug/l #	17
43) Isopropyl Acetate	8.14	43	54751	9.448	ug/l #	90
45) 1,2-Dichloropropane	9.25	63	886	0.342	ug/l #	43
48) Methyl methacrylate	9.16	41	3046	1.181	ug/l #	15
51) 4-Methyl-2-Pentanone	9.97	43	3916	1.188	ug/l	99
52) Toluene	10.14	92	60169	10.149	ug/l	99
54) cis-1,3-Dichloropropene	9.89	75	23191	5.655	ug/l #	60
57) 1,3-Dichloropropane	10.75	76	3380	0.854	ug/l #	42
59) 2-Hexanone	10.75	43	51311	21.600	ug/l #	51
68) m/p-Xylenes	11.61	106	1364	0.318	ug/l	89
69) o-Xylene	11.94	106	889	0.217	ug/l	86
71) Bromoform	12.39	173	283	1.827	ug/l #	1
74) N-amyl acetate	12.02	43	3606	0.735	ug/l #	45
76) 1,2,3-Trichloropropane	12.40	75	77293	25.320	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	77293	65.028	ug/l #	13
90) Hexachloroethane	13.99	117	641	0.488	ug/l #	8
95) Naphthalene	15.13	128	2867	0.360	ug/l #	91

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.00 min

Lab File: VN060903.D

Acq: 8 Apr 2020 16:02

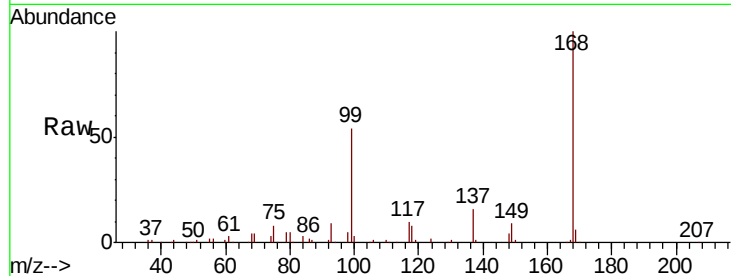
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 202030

Ion Ratio Lower Upper

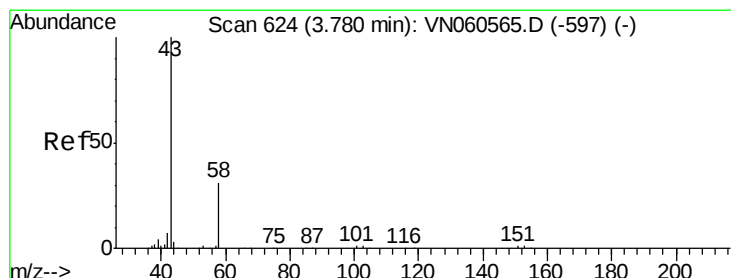
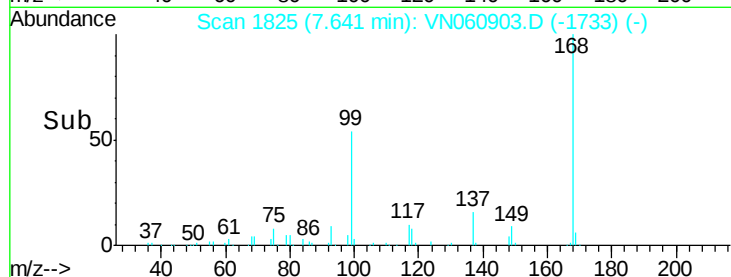
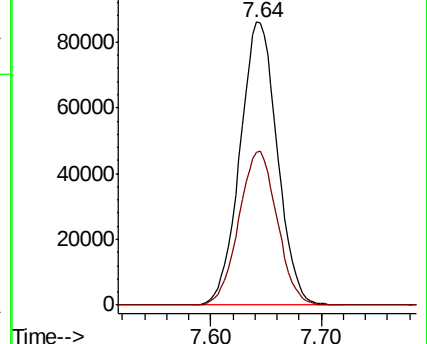
168 100

99 54.1 44.0 66.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0



#16

Acetone

Concen: 7.788 ug/l

RT: 3.78 min Scan# 625

Delta R.T. 0.00 min

Lab File: VN060903.D

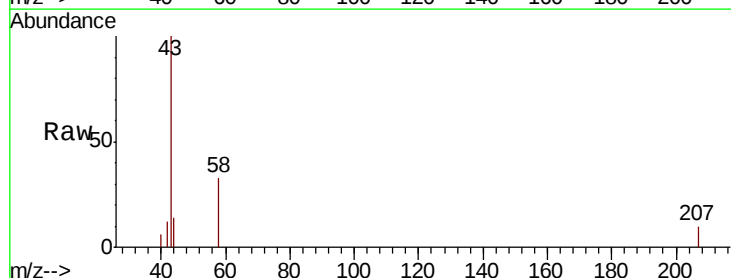
Acq: 8 Apr 2020 16:02

Tgt Ion: 43 Resp: 7651

Ion Ratio Lower Upper

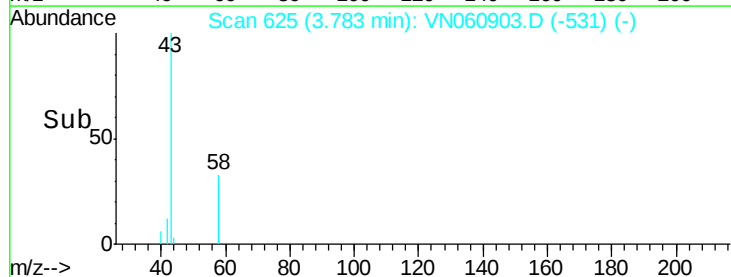
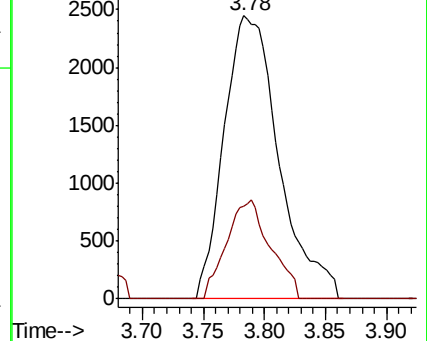
43 100

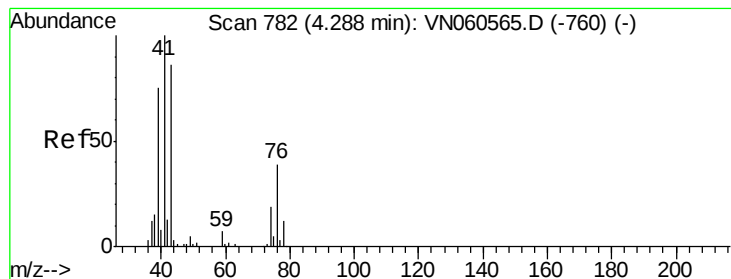
58 32.6 25.1 37.7



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#18

Methyl Acetate

Concen: 0.641 ug/l

RT: 4.29 min Scan# 783

Delta R.T. 0.00 min

Lab File: VN060903.D

Acq: 8 Apr 2020 16:02

Instrument :

MSVOA_N

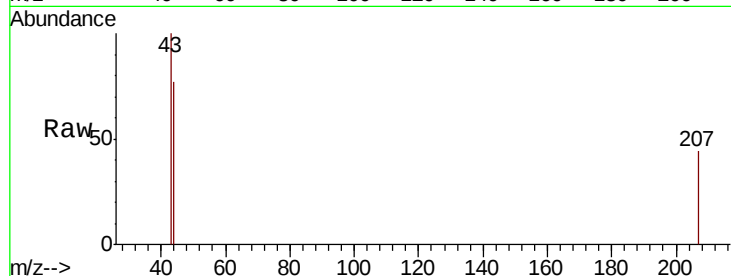
ClientSampled :

Tot Ion: 43 Resp: 1772

Ion Ratio Lower Upper

43 100

74 6.0 17.5 26.3#



Abundance Ion 43.00 (42.70 to 43.70): VN060903.D (-689) (-)

Ion 74.00 (73.70 to 74.70): VN060903.D (-689) (-)

4.29

600

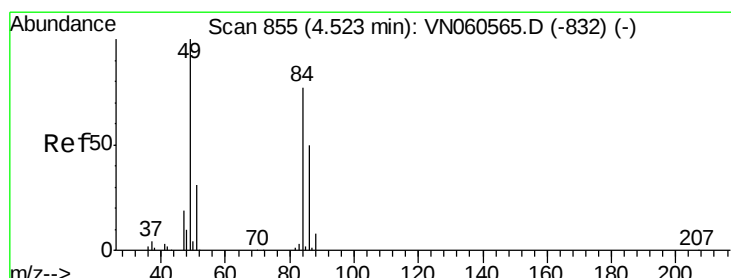
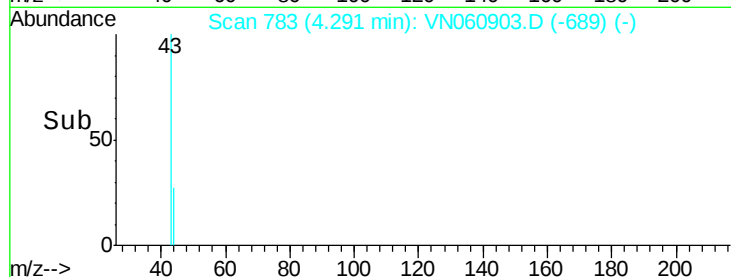
400

200

0

Time-->

4.25 4.30 4.35



#20

Methylene Chloride

Concen: 1.354 ug/l

RT: 4.52 min Scan# 854

Delta R.T. -0.00 min

Lab File: VN060903.D

Acq: 8 Apr 2020 16:02

Tgt Ion: 84 Resp: 3272

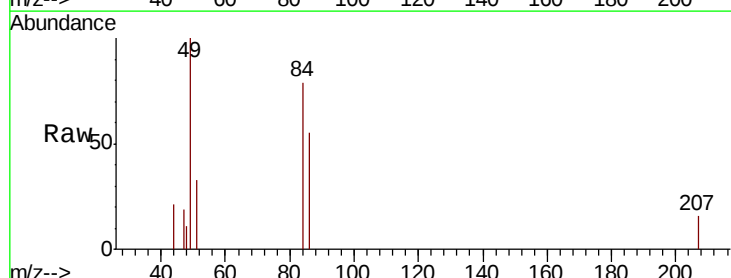
Ion Ratio Lower Upper

84 100

49 126.4 103.3 154.9

51 42.3 31.6 47.4

86 69.5 52.0 78.0



Abundance Ion 83.90 (83.60 to 84.60): VN060903.D (-762) (-)

Ion 48.90 (48.60 to 49.60): VN060903.D (-762) (-)

Ion 50.90 (50.60 to 51.60): VN060903.D (-762) (-)

Ion 85.90 (85.60 to 86.60): VN060903.D (-762) (-)

2000

1500

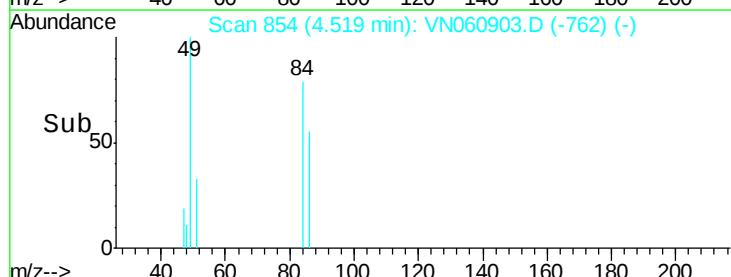
1000

500

0

Time-->

4.45 4.50 4.55 4.60

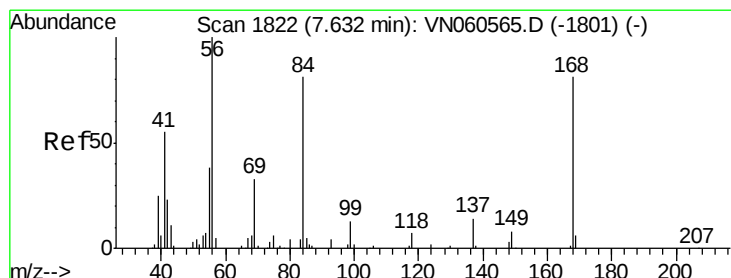
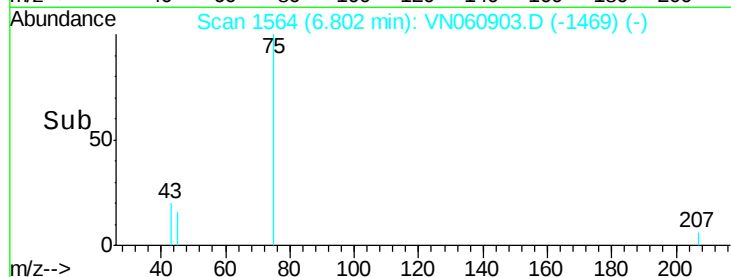
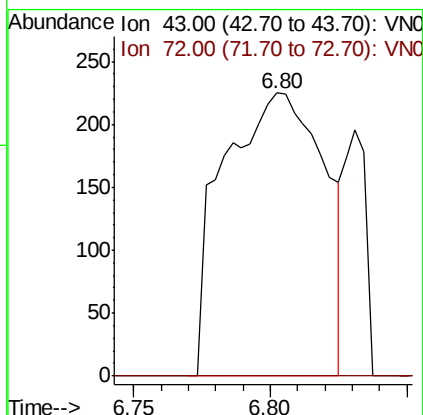
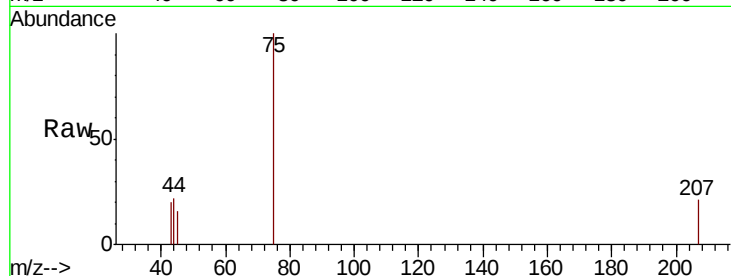




#25
2-Butanone
Concen: 0.363 ug/l
RT: 6.80 min Scan# 1564
Delta R.T. 0.01 min
Lab File: VN060903.D
Acq: 8 Apr 2020 16:02

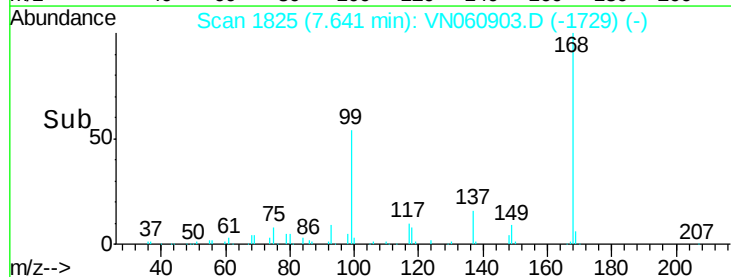
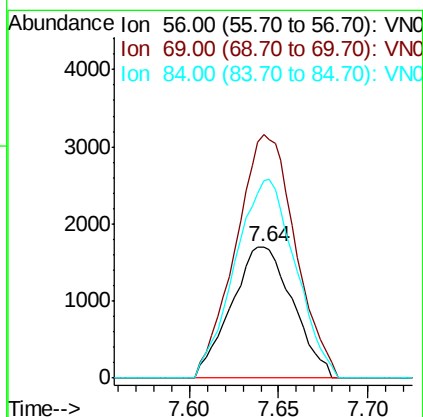
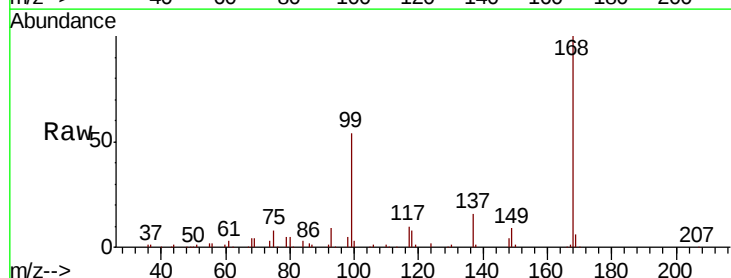
Instrument :
MSVOA_N
ClientSampled :

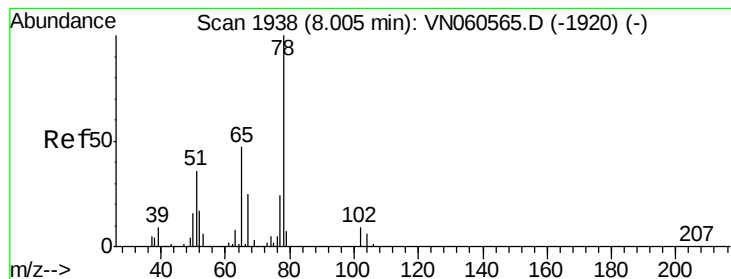
Tot Ion: 43 Resp: 577
Ion Ratio Lower Upper
43 100
72 0.0 20.4 30.6#



#31
Cyclohexane
Concen: 0.913 ug/l
RT: 7.64 min Scan# 1825
Delta R.T. 0.01 min
Lab File: VN060903.D
Acq: 8 Apr 2020 16:02

Tgt Ion: 56 Resp: 4078
Ion Ratio Lower Upper
56 100
69 185.5 26.6 40.0#
84 150.6 64.3 96.5#





#33

1,2-Dichloroethane-d4

Concen: 46.402 ug/l

RT: 8.00 min Scan# 1938

Delta R.T. 0.00 min

Lab File: VN060903.D

Acq: 8 Apr 2020 16:02

Instrument :

MSVOA_N

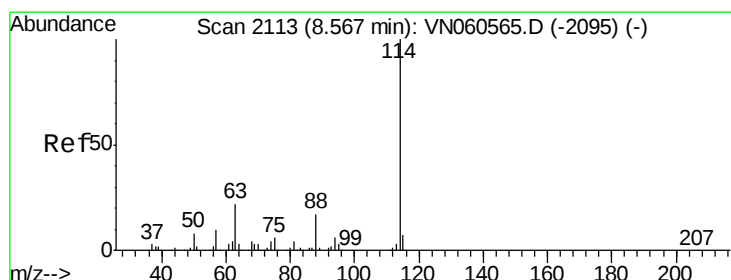
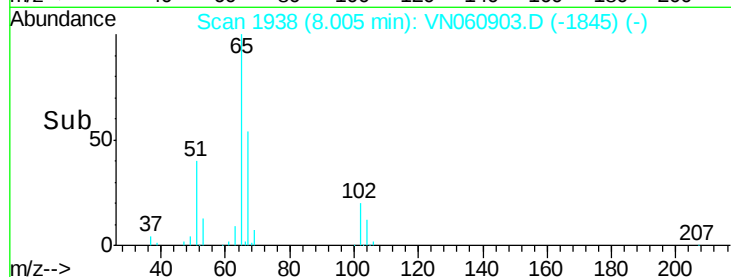
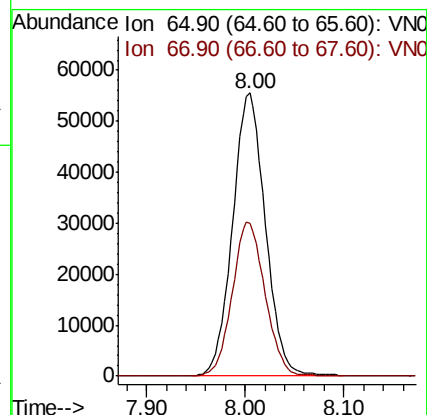
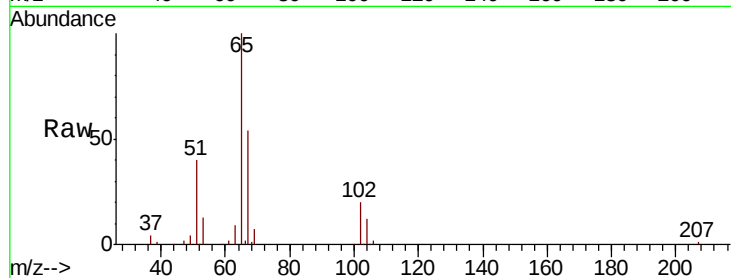
ClientSampleId :

Tot Ion: 65 Resp: 128693

Ion Ratio Lower Upper

65 100

67 54.4 0.0 107.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.57 min Scan# 2113

Delta R.T. 0.00 min

Lab File: VN060903.D

Acq: 8 Apr 2020 16:02

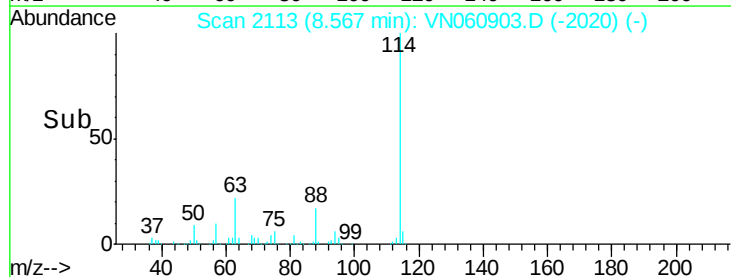
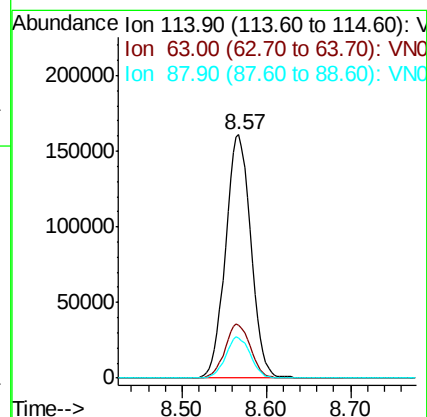
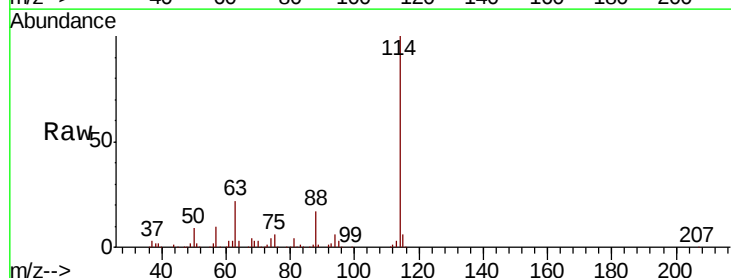
Tgt Ion: 114 Resp: 335846

Ion Ratio Lower Upper

114 100

63 22.0 0.0 43.8

88 16.6 0.0 33.0

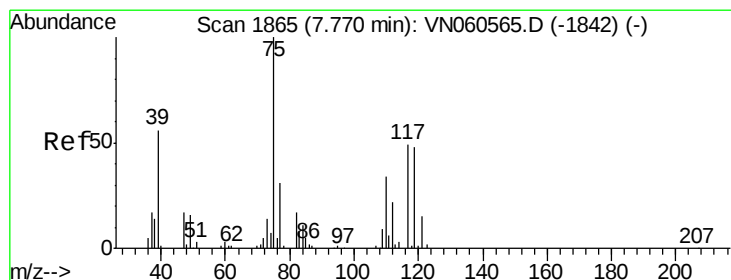
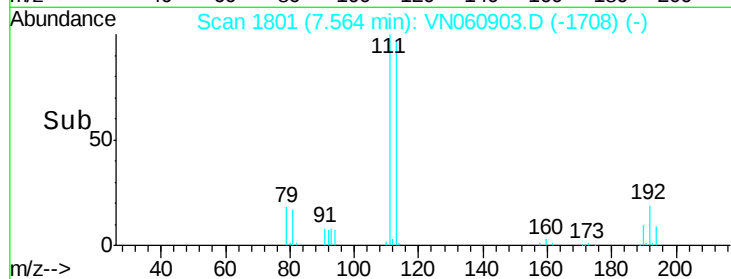
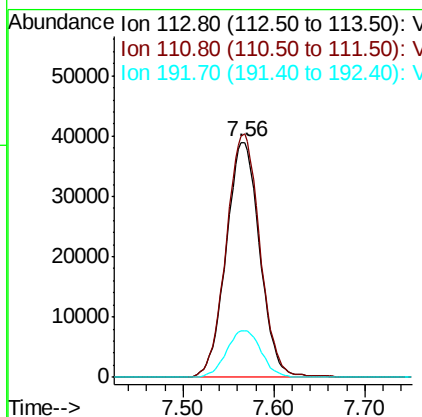
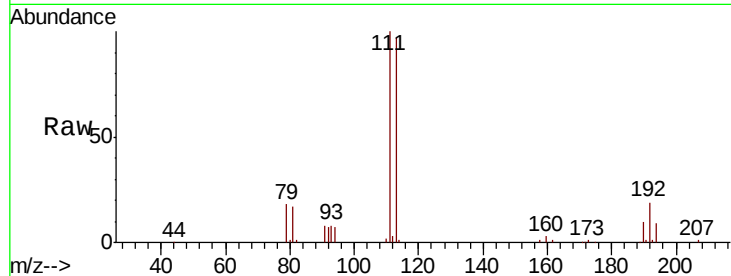




#35
 Dibromofluoromethane
 Concen: 49.133 ug/l
 RT: 7.56 min Scan# 1801
 Delta R.T. 0.00 min
 Lab File: VN060903.D
 Acq: 8 Apr 2020 16:02

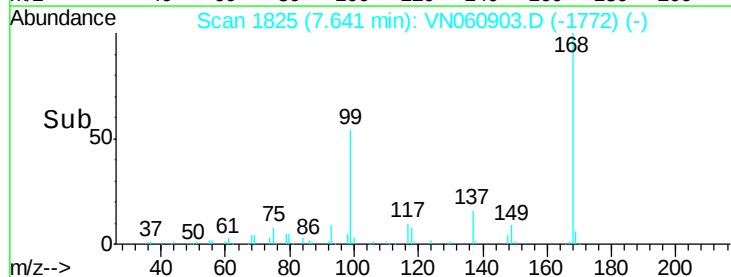
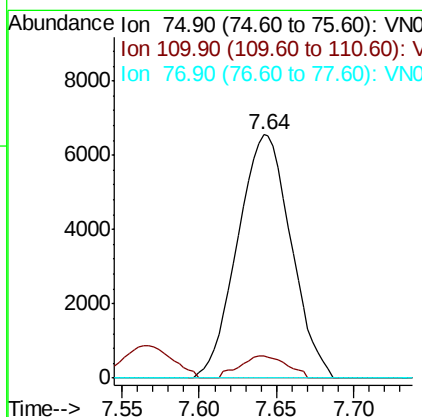
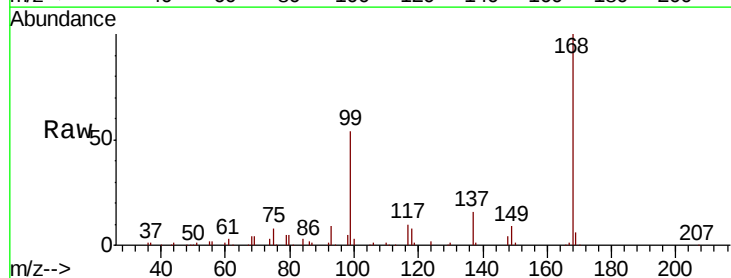
Instrument :
 MSVOA_N
 ClientSampled :

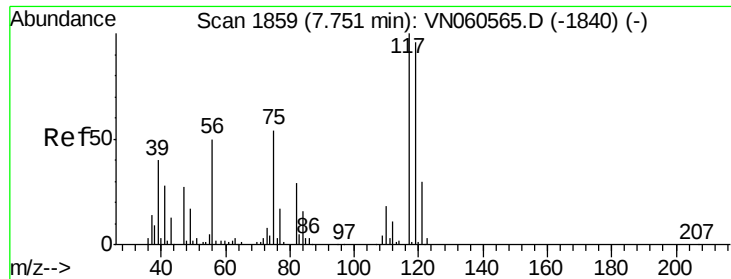
Tot Ion:113 Resp: 99778
 Ion Ratio Lower Upper
 113 100
 111 103.9 82.9 124.3
 192 20.5 15.8 23.8



#36
 1,1-Dichloropropene
 Concen: 4.832 ug/l
 RT: 7.64 min Scan# 1825
 Delta R.T. -0.13 min
 Lab File: VN060903.D
 Acq: 8 Apr 2020 16:02

Tgt Ion: 75 Resp: 15715
 Ion Ratio Lower Upper
 75 100
 110 8.0 16.9 50.6#
 77 0.0 24.6 36.8#





#38

Carbon Tetrachloride

Concen: 6.748 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.11 min

Lab File: VN060903.D

Acq: 8 Apr 2020 16:02

Instrument :

MSVOA_N

ClientSampleId :

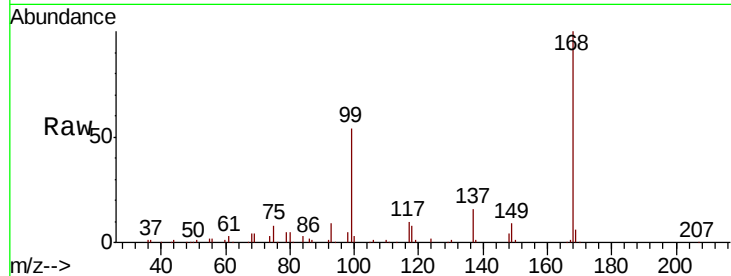
Tot Ion:117 Resp: 19667

Ion Ratio Lower Upper

117 100

119 5.4 76.2 114.2#

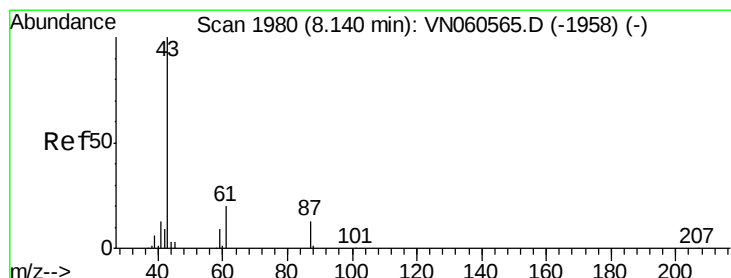
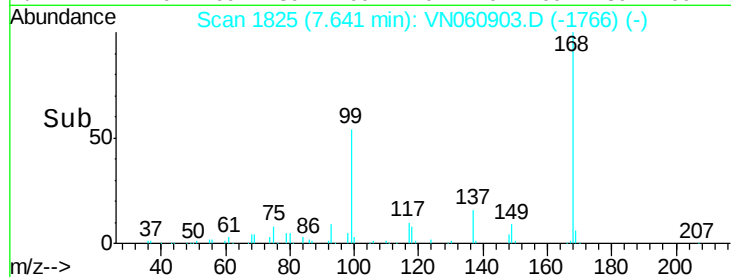
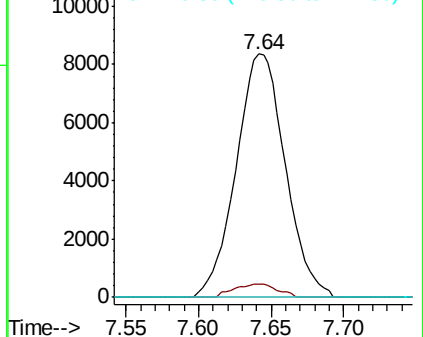
121 0.0 23.7 35.5#



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: 9.448 ug/l

RT: 8.14 min Scan# 1980

Delta R.T. 0.00 min

Lab File: VN060903.D

Acq: 8 Apr 2020 16:02

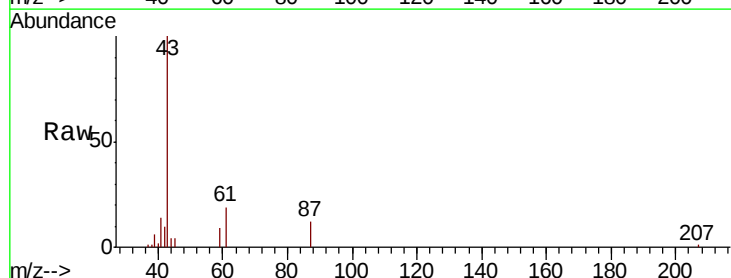
Tgt Ion: 43 Resp: 54751

Ion Ratio Lower Upper

43 100

61 19.2 20.7 31.1#

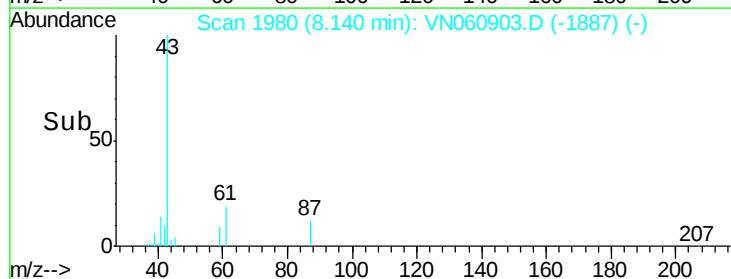
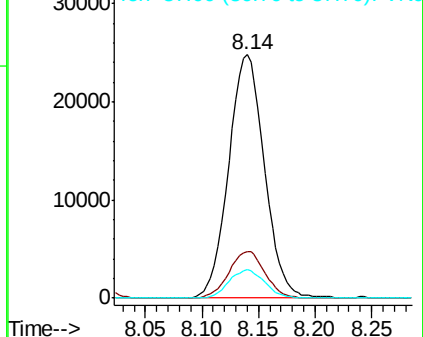
87 11.5 9.8 14.8

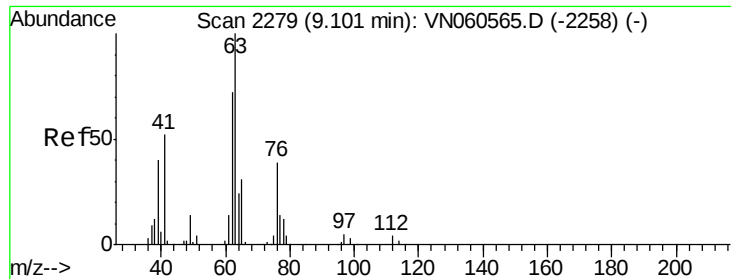


Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 61.00 (60.70 to 61.70): VNO

Ion 87.00 (86.70 to 87.70): VNO

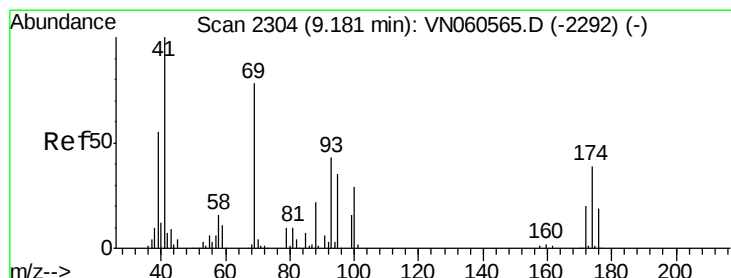
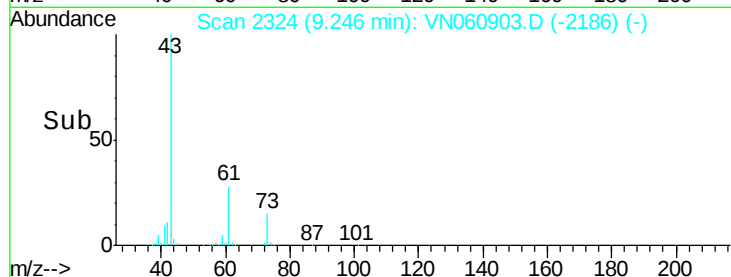
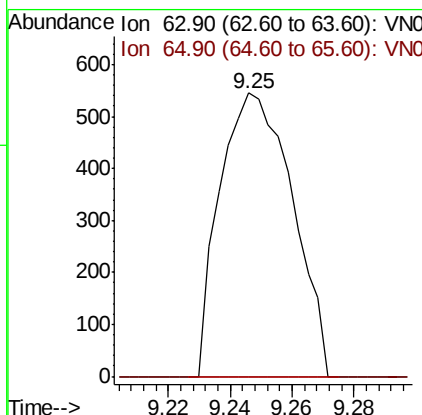
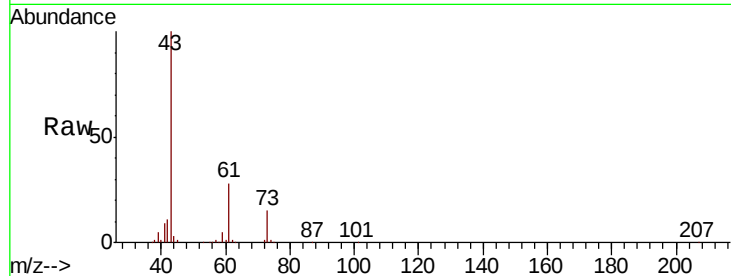




#45
 1,2-Dichloropropane
 Concen: 0.342 ug/l
 RT: 9.25 min Scan# 2324
 Delta R.T. 0.14 min
 Lab File: VN060903.D
 Acq: 8 Apr 2020 16:02

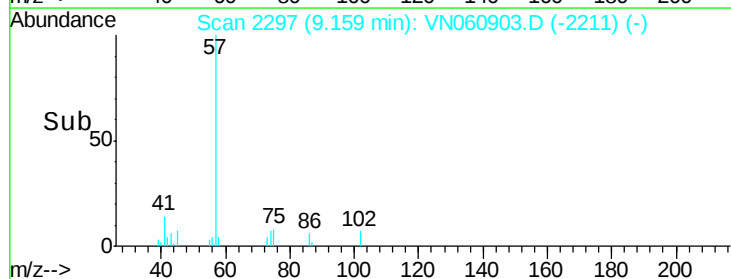
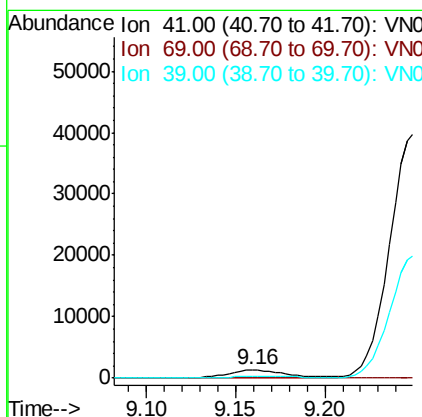
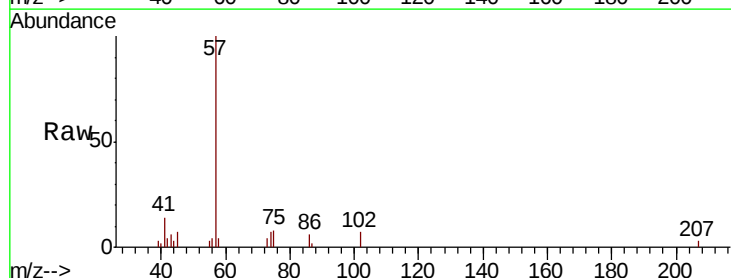
Instrument :
 MSVOA_N
 ClientSampleId :

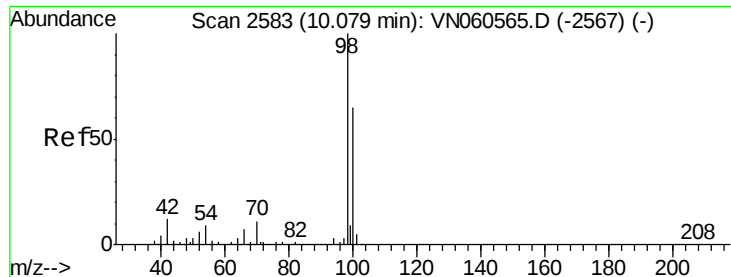
Tot Ion: 63 Resp: 886
 Ion Ratio Lower Upper
 63 100
 65 0.0 25.4 38.0#



#48
 Methyl methacrylate
 Concen: 1.181 ug/l
 RT: 9.16 min Scan# 2297
 Delta R.T. -0.02 min
 Lab File: VN060903.D
 Acq: 8 Apr 2020 16:02

Tgt Ion: 41 Resp: 3046
 Ion Ratio Lower Upper
 41 100
 69 0.0 65.4 98.0#
 39 0.0 44.0 66.0#

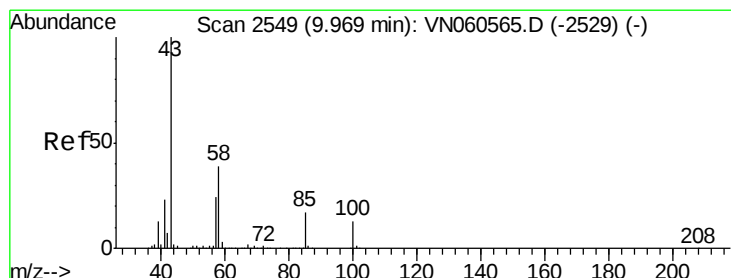
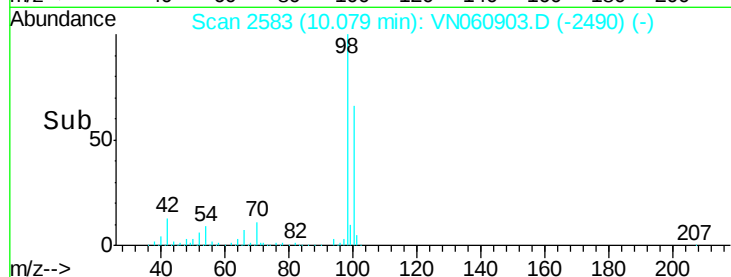
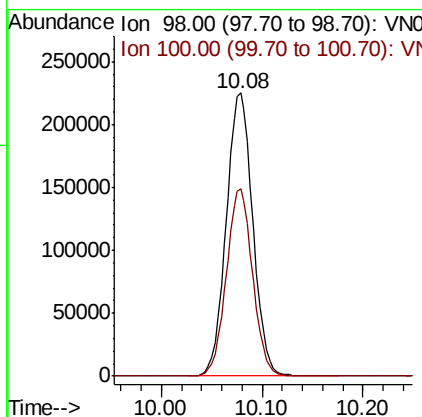
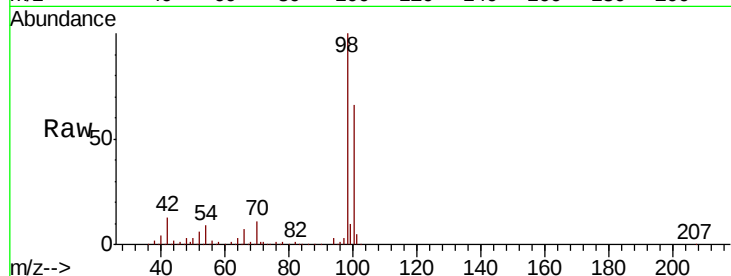




#50
Toluene-d8
Concen: 49.862 ug/l
RT: 10.08 min Scan# 2583
Delta R.T. 0.00 min
Lab File: VN060903.D
Acq: 8 Apr 2020 16:02

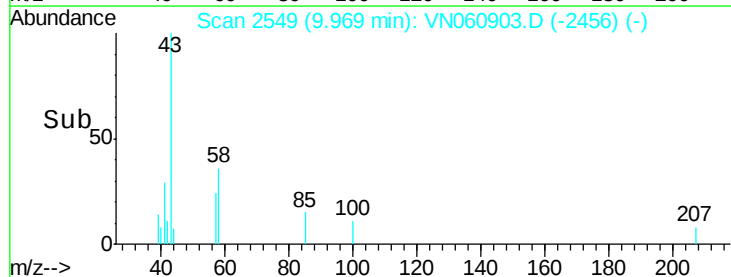
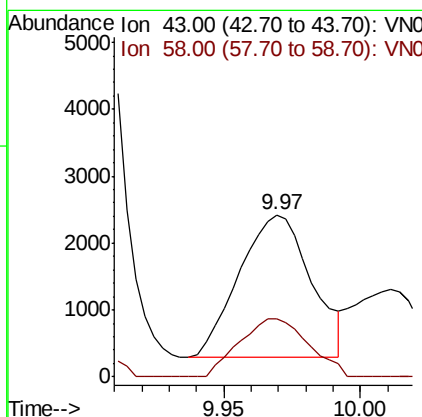
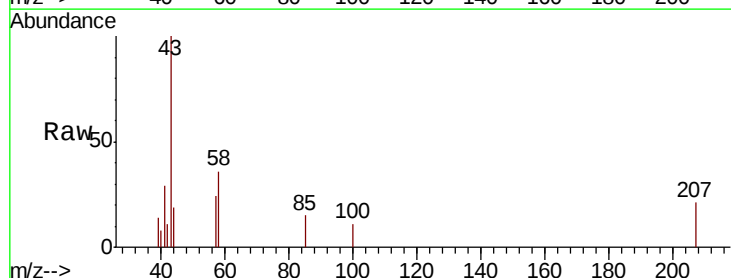
Instrument :
MSVOA_N
ClientSampled :

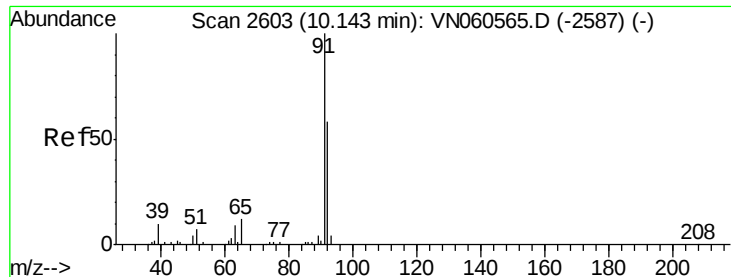
Tot Ion: 98 Resp: 413593
Ion Ratio Lower Upper
98 100
100 65.4 51.8 77.8



#51
4-Methyl-2-Pentanone
Concen: 1.188 ug/l
RT: 9.97 min Scan# 2549
Delta R.T. 0.00 min
Lab File: VN060903.D
Acq: 8 Apr 2020 16:02

Tgt Ion: 43 Resp: 3916
Ion Ratio Lower Upper
43 100
58 39.1 30.8 46.2





#52

Toluene

Concen: 10.149 ug/l

RT: 10.14 min Scan# 2603

Delta R.T. 0.00 min

Lab File: VN060903.D

Acq: 8 Apr 2020 16:02

Instrument :

MSVOA_N

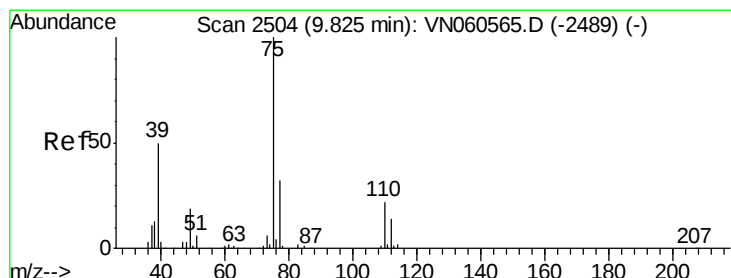
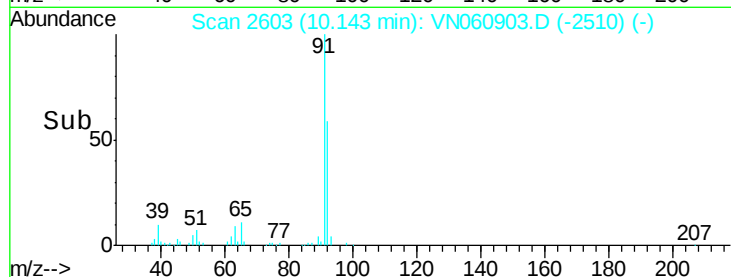
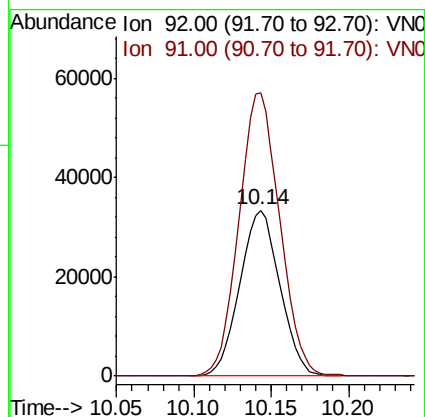
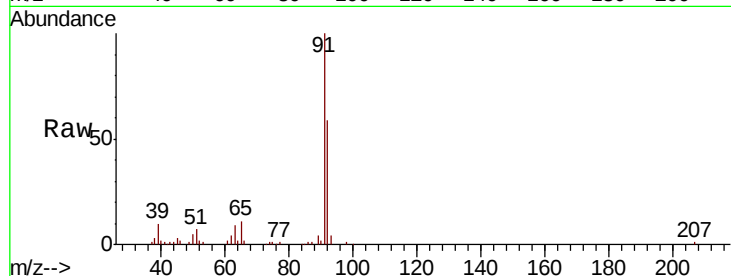
ClientSampleId :

Tot Ion: 92 Resp: 60169

Ion Ratio Lower Upper

92 100

91 173.9 137.6 206.4



#54

cis-1,3-Dichloropropene

Concen: 5.655 ug/l

RT: 9.89 min Scan# 2524

Delta R.T. 0.06 min

Lab File: VN060903.D

Acq: 8 Apr 2020 16:02

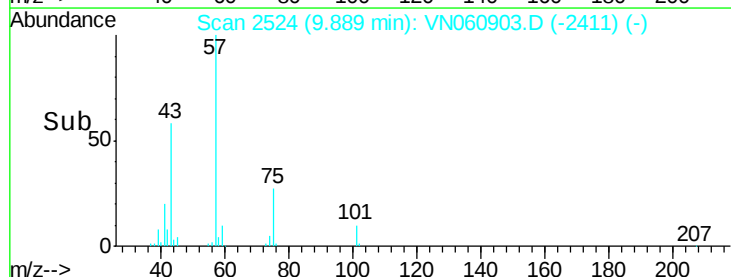
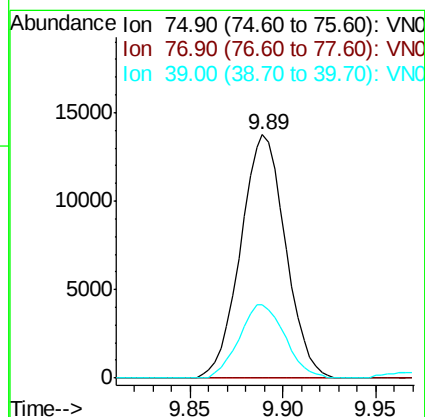
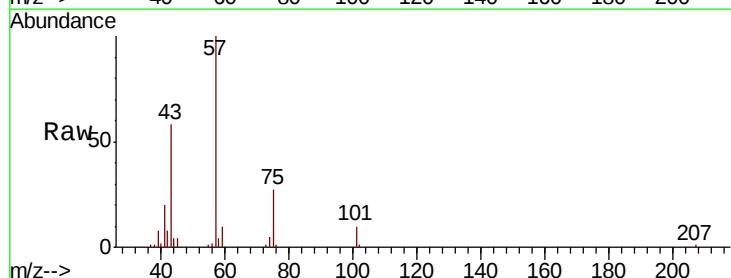
Tgt Ion: 75 Resp: 23191

Ion Ratio Lower Upper

75 100

77 0.0 25.4 38.0#

39 30.3 40.2 60.4#





#57

1,3-Dichloropropane

Concen: 0.854 ug/l

RT: 10.75 min Scan# 2792

Delta R.T. 0.05 min

Lab File: VN060903.D

Acq: 8 Apr 2020 16:02

Instrument :

MSVOA_N

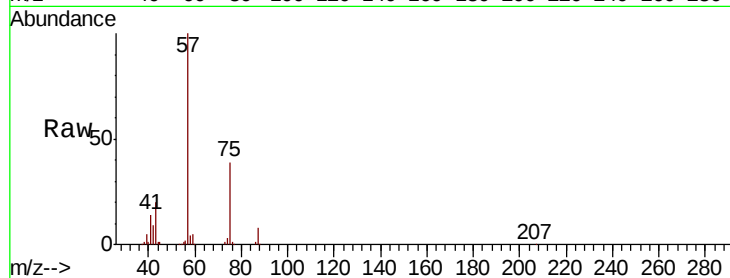
ClientSampled :

Tot Ion: 76 Resp: 3380

Ion Ratio Lower Upper

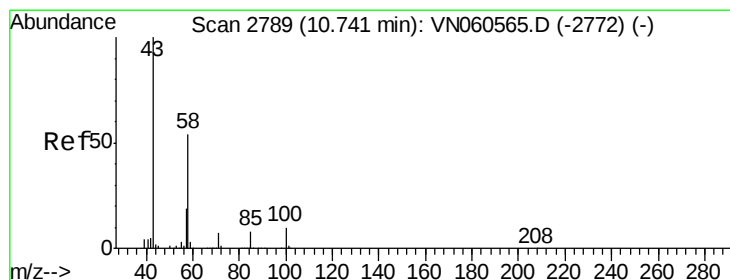
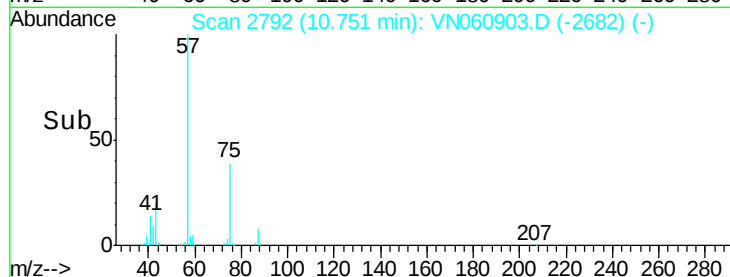
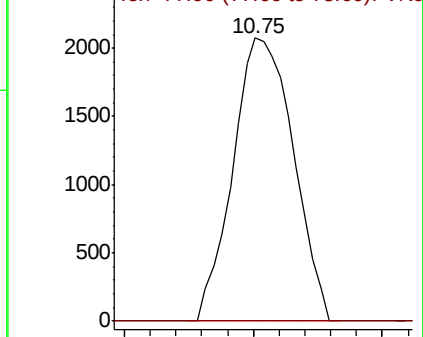
76 100

78 0.0 25.8 38.6#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



#59

2-Hexanone

Concen: 21.600 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.01 min

Lab File: VN060903.D

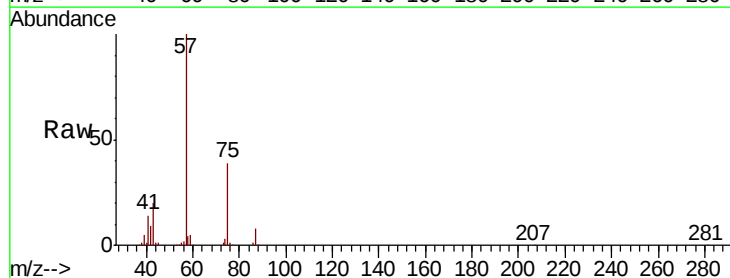
Acq: 8 Apr 2020 16:02

Tgt Ion: 43 Resp: 51311

Ion Ratio Lower Upper

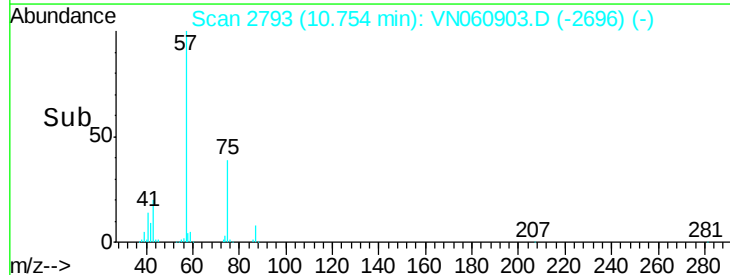
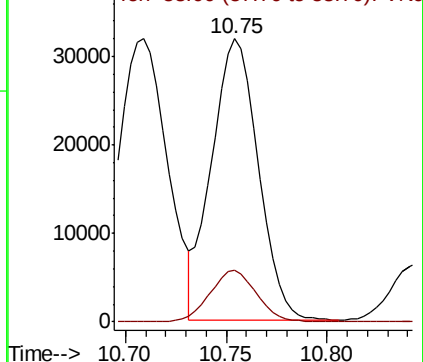
43 100

58 18.2 26.7 80.1#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

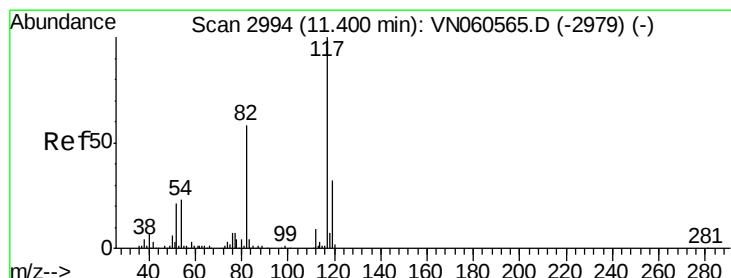
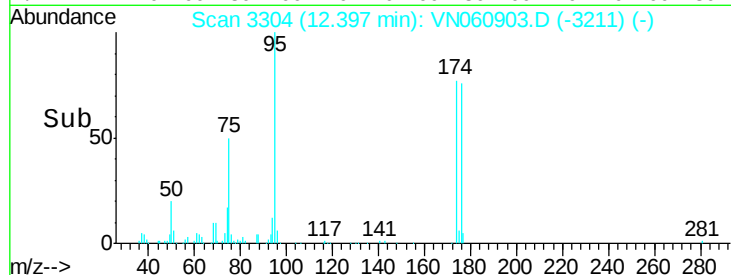
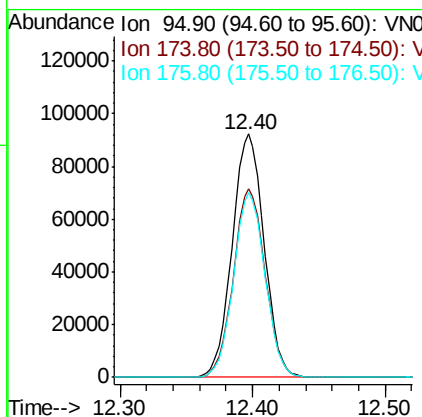
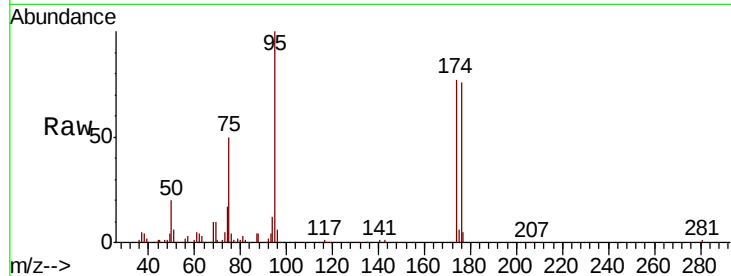




#62
4-Bromofluorobenzene
Concen: 50.634 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. 0.00 min
Lab File: VN060903.D
Acq: 8 Apr 2020 16:02

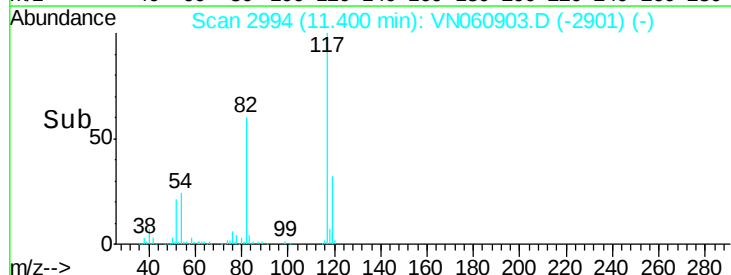
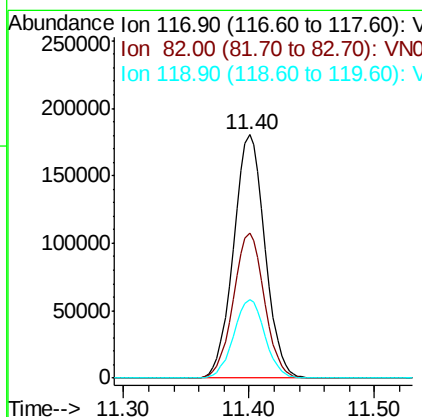
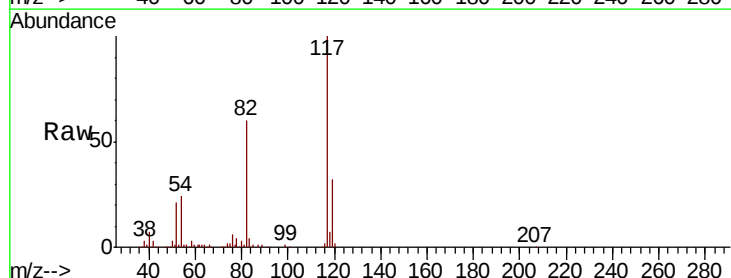
Instrument :
MSVOA_N
ClientSampleId :

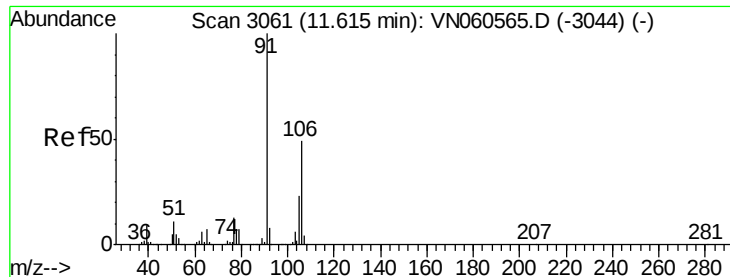
Tot Ion	95	Resp	153924
Ion Ratio	Lower	Upper	
95	100		
174	77.1	0.0	157.6
176	75.0	0.0	150.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2994
Delta R.T. 0.00 min
Lab File: VN060903.D
Acq: 8 Apr 2020 16:02

Tgt Ion	117	Resp	313116
Ion Ratio	Lower	Upper	
117	100		
82	59.6	46.7	70.1
119	32.1	25.5	38.3

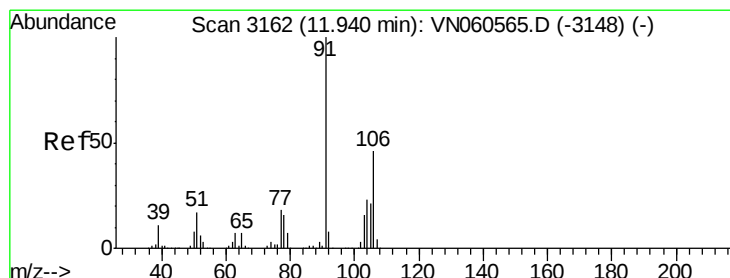
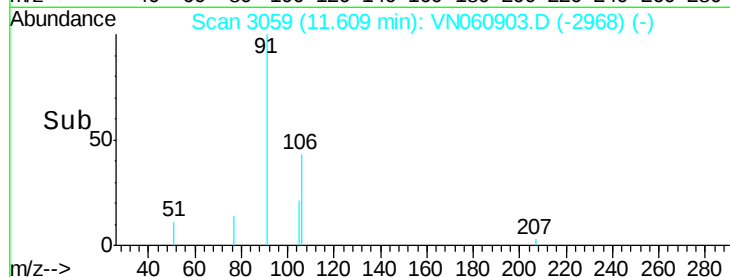
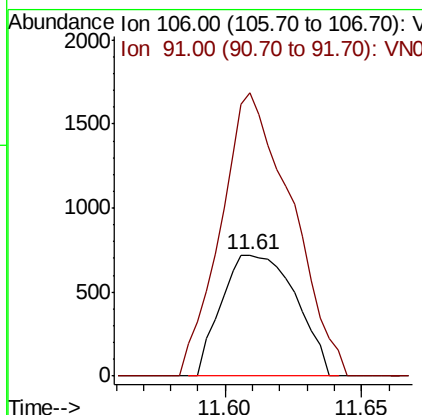
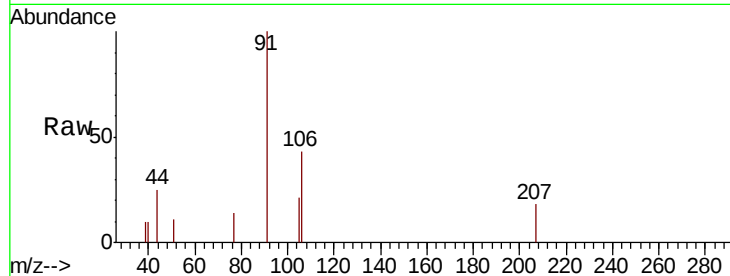




#68
m/p-Xylenes
Concen: 0.318 ug/l
RT: 11.61 min Scan# 3059
Delta R.T. -0.01 min
Lab File: VN060903.D
Acq: 8 Apr 2020 16:02

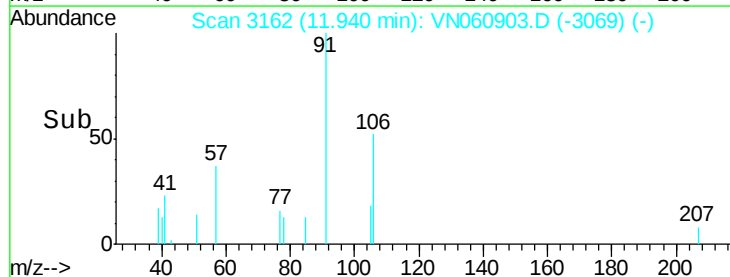
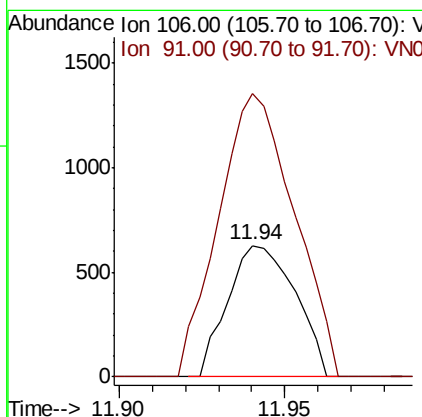
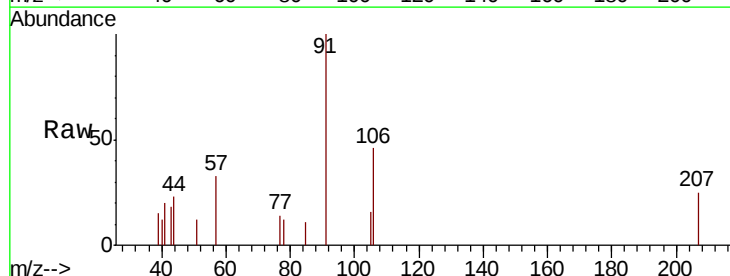
Instrument :
MSVOA_N
ClientSampled :

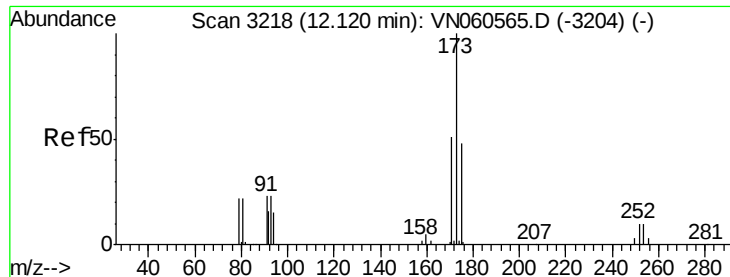
Tot Ion:106 Resp: 1364
Ion Ratio Lower Upper
106 100
91 223.8 165.0 247.4



#69
o-Xylene
Concen: 0.217 ug/l
RT: 11.94 min Scan# 3162
Delta R.T. 0.00 min
Lab File: VN060903.D
Acq: 8 Apr 2020 16:02

Tgt Ion:106 Resp: 889
Ion Ratio Lower Upper
106 100
91 241.8 109.5 328.4





#71

Bromoform

Concen: 1.827 ug/l

RT: 12.39 min Scan# 3301

Delta R.T. 0.27 min

Lab File: VN060903.D

Acq: 8 Apr 2020 16:02

Instrument :

MSVOA_N

ClientSampleId :

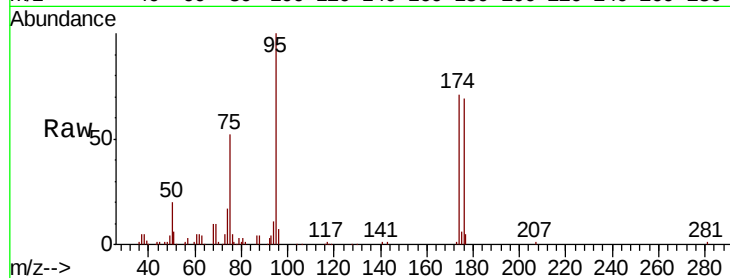
Tot Ion:173 Resp: 283

Ion Ratio Lower Upper

173 100

175 2706.7 24.1 72.4#

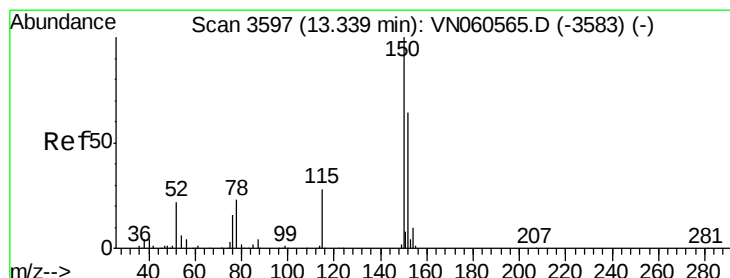
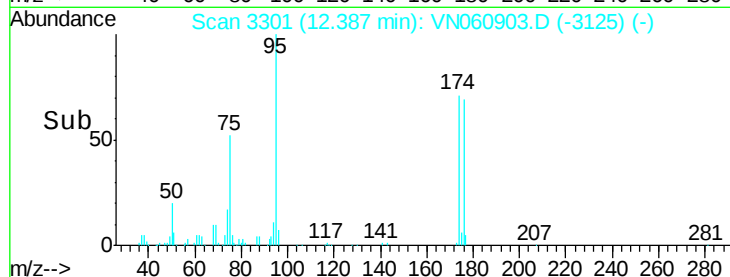
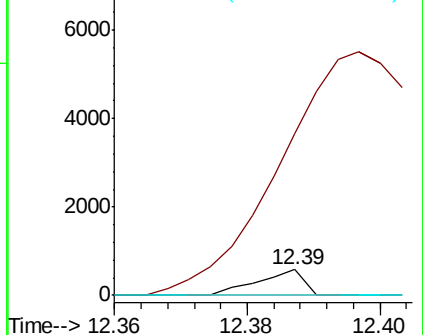
254 0.0 0.0 0.0



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3597

Delta R.T. 0.00 min

Lab File: VN060903.D

Acq: 8 Apr 2020 16:02

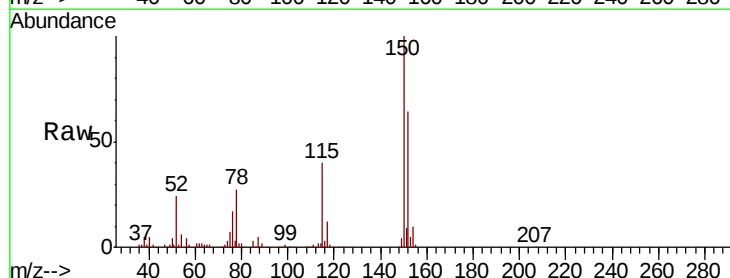
Tgt Ion:152 Resp: 141473

Ion Ratio Lower Upper

152 100

115 60.5 30.2 90.6

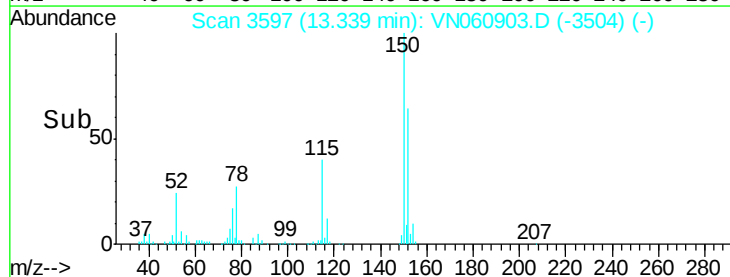
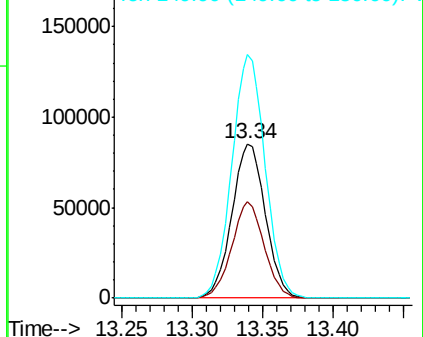
150 157.0 0.0 350.2

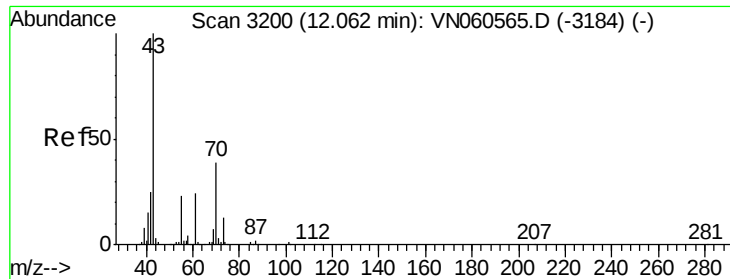


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: 0.735 ug/l

RT: 12.02 min Scan# 3188

Delta R.T. -0.04 min

Lab File: VN060903.D

Acq: 8 Apr 2020 16:02

Instrument :

MSVOA_N

ClientSampled :

Tot Ion: 43 Resp: 3606

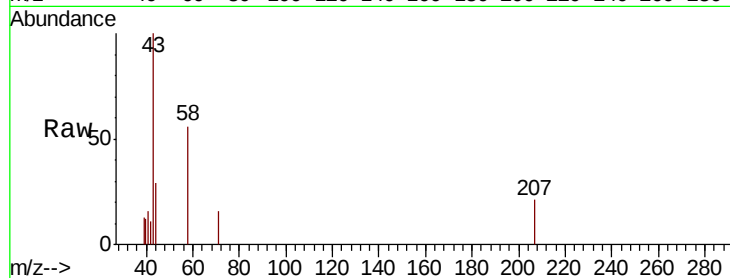
Ion Ratio Lower Upper

43 100

70 0.0 31.1 46.7#

55 0.0 18.6 27.8#

61 0.0 18.9 28.3#

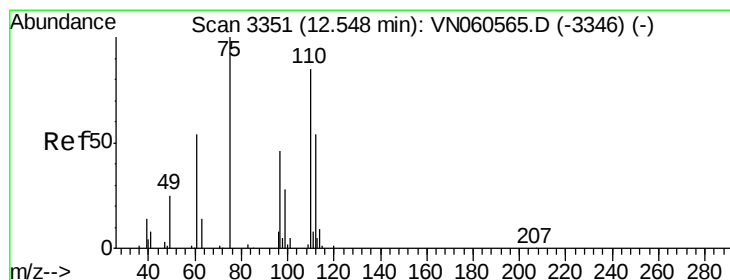
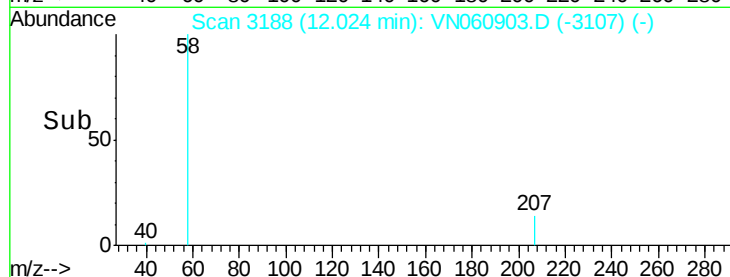
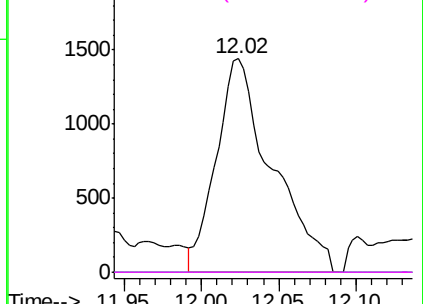


Abundance Ion 43.00 (42.70 to 43.70): VN0

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: 25.320 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN060903.D

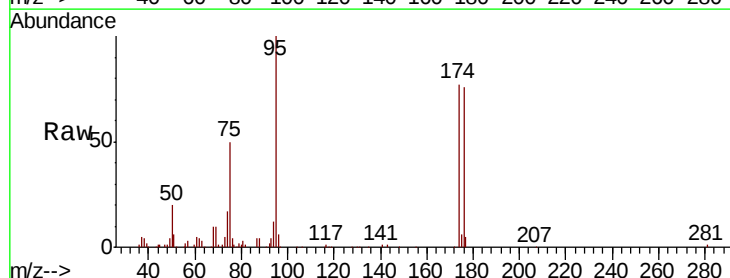
Acq: 8 Apr 2020 16:02

Tgt Ion: 75 Resp: 77293

Ion Ratio Lower Upper

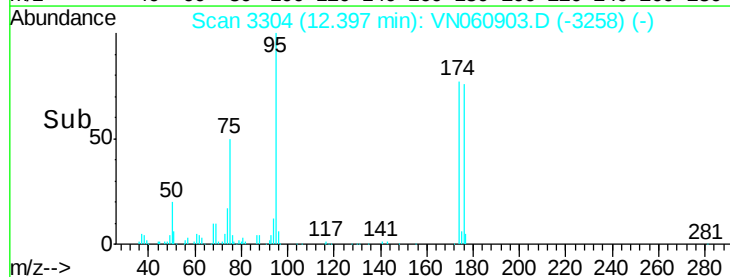
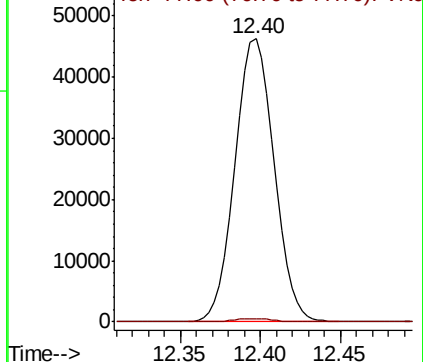
75 100

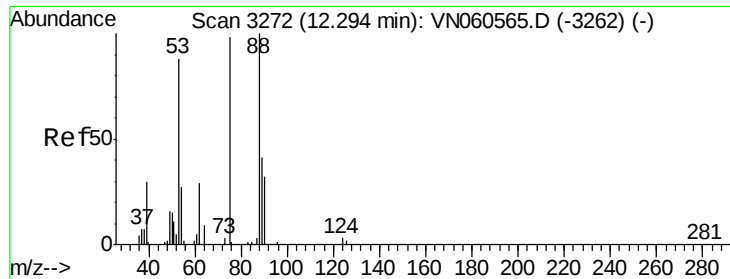
77 1.1 0.0 0.0#



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: 65.028 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.10 min

Lab File: VN060903.D

Acq: 8 Apr 2020 16:02

Instrument :

MSVOA_N

ClientSampleId :

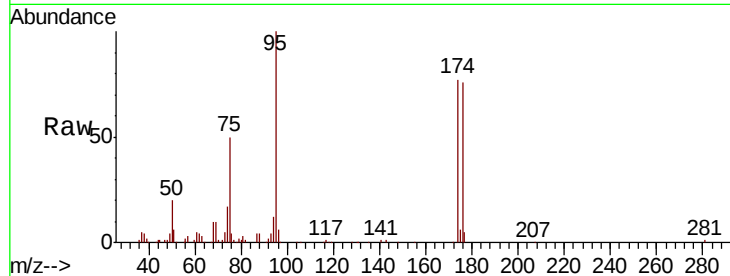
Tot Ion: 75 Resp: 77293

Ion Ratio Lower Upper

75 100

53 0.0 73.0 109.4#

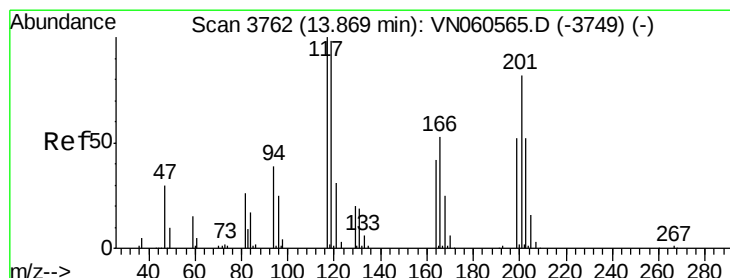
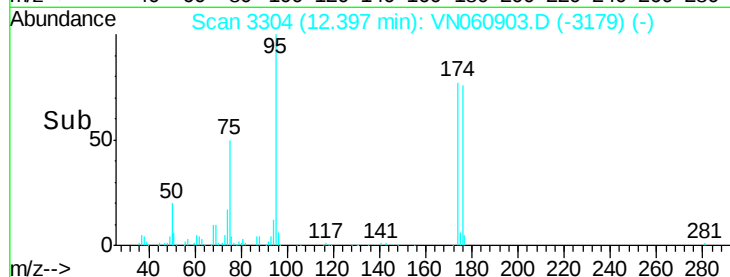
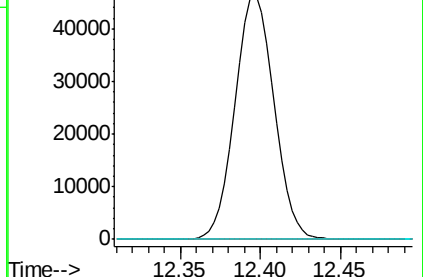
89 0.0 34.8 52.2#



Abundance Ion 74.90 (74.60 to 75.60): VN060903.D (-3179) (-)

Ion 53.00 (52.70 to 53.70): VN060903.D (-3179) (-)

Ion 88.90 (88.60 to 89.60): VN060903.D (-3179) (-)



#90

Hexachloroethane

Concen: 0.488 ug/l

RT: 13.99 min Scan# 3800

Delta R.T. 0.12 min

Lab File: VN060903.D

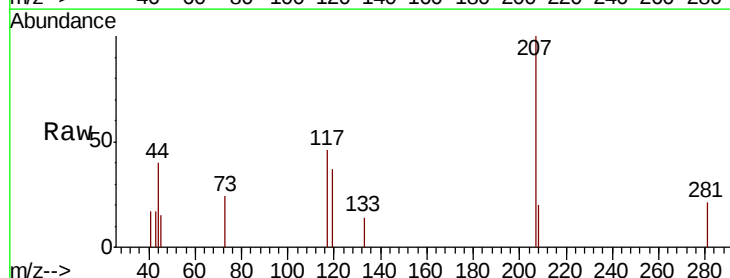
Acq: 8 Apr 2020 16:02

Tgt Ion: 117 Resp: 641

Ion Ratio Lower Upper

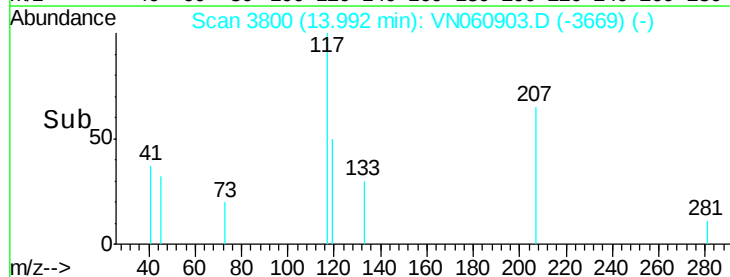
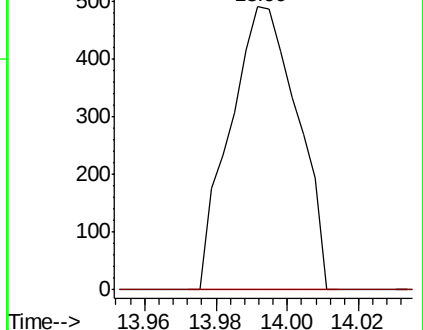
117 100

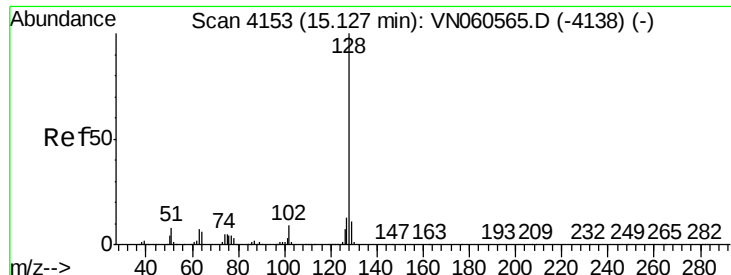
201 0.0 40.8 122.5#



Abundance Ion 116.80 (116.50 to 117.50): VN060903.D (-3669) (-)

Ion 200.70 (200.40 to 201.40): VN060903.D (-3669) (-)





#95

Naphthalene

Concen: 0.360 ug/l

RT: 15.13 min Scan# 4154

Delta R.T. 0.00 min

Lab File: VN060903.D

Acq: 8 Apr 2020 16:02

Instrument :

MSVOA_N

ClientSampleId :

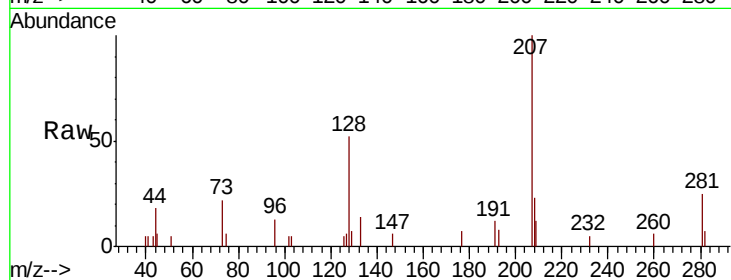
Tot Ion:128 Resp: 2867

Ion Ratio Lower Upper

128 100

127 9.7 10.2 15.2#

129 6.8 8.8 13.2#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

