

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN033120\
 Data File : VN060793.D
 Acq On : 31 Mar 2020 17:59
 Operator : JC/MD
 Sample : L2072-02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Apr 01 08:24:54 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

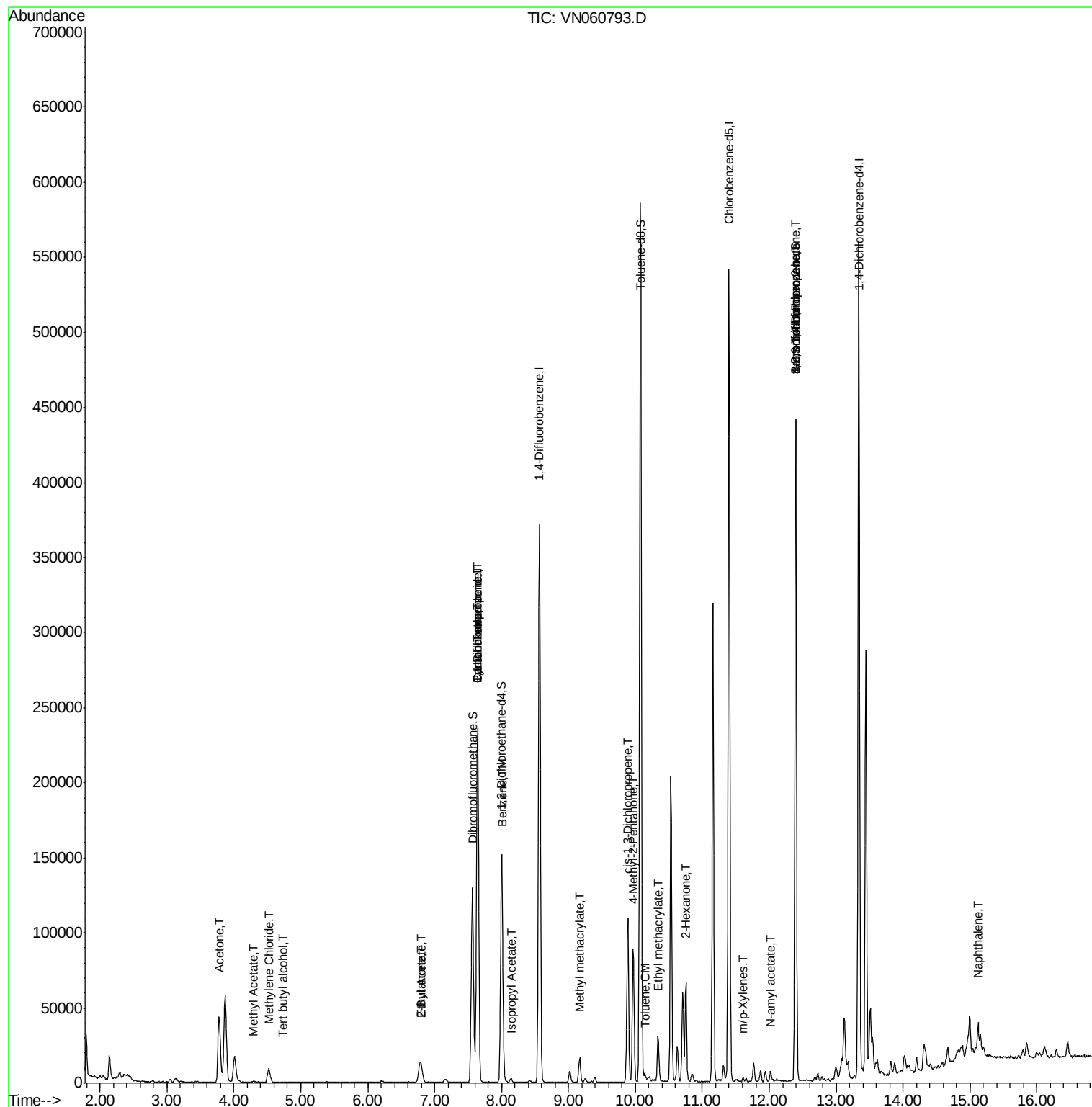
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	195798	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.56	114	327663	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	307714	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	145082	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.00	65	127493	47.43	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.86%	
35) Dibromofluoromethane	7.56	113	97459	49.19	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.38%	
50) Toluene-d8	10.08	98	407476	50.35	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.70%	
62) 4-Bromofluorobenzene	12.40	95	153771	51.85	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.70%	
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	4.72	59	513	1.298	ug/l #	72
16) Acetone	3.78	43	76222	80.057	ug/l	99
18) Methyl Acetate	4.29	43	1935	0.722	ug/l #	54
20) Methylene Chloride	4.52	84	6749	2.882	ug/l	96
25) 2-Butanone	6.80	43	19762	12.827	ug/l	95
31) Cyclohexane	7.64	56	4333	1.001	ug/l #	2
36) 1,1-Dichloropropene	7.64	75	14962	4.716	ug/l #	49
37) Ethyl Acetate	6.80	43	19762	5.764	ug/l #	70
38) Carbon Tetrachloride	7.64	117	18432	6.482	ug/l #	16
40) Benzene	8.02	78	2016	0.210	ug/l #	89
43) Isopropyl Acetate	8.14	43	3534	0.625	ug/l #	82
48) Methyl methacrylate	9.16	41	3332	1.324	ug/l #	26
51) 4-Methyl-2-Pentanone	9.97	43	63486	19.733	ug/l	98
52) Toluene	10.14	92	2521	0.436	ug/l	94
54) cis-1,3-Dichloropropene	9.89	75	16225	4.055	ug/l #	59
56) Ethyl methacrylate	10.34	69	4848	1.397	ug/l #	61
59) 2-Hexanone	10.75	43	10246	4.421	ug/l	65
68) m/p-Xylenes	11.61	106	934	0.222	ug/l	96
71) Bromoform	12.39	173	124	1.746	ug/l #	29
74) N-amyl acetate	12.02	43	4893	0.973	ug/l #	48
76) 1,2,3-Trichloropropane	12.40	75	78029	24.925	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	78029	64.014	ug/l #	13
95) Naphthalene	15.13	128	1713	0.210	ug/l #	81

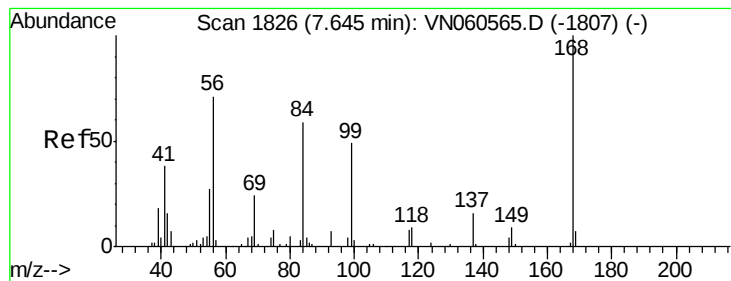
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN060793.D

Acq: 31 Mar 2020 17:59

Instrument :

MSVOA_N

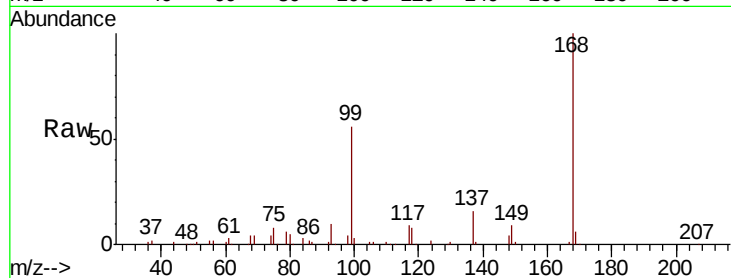
ClientSampleId :

Tot Ion:168 Resp: 195798

Ion Ratio Lower Upper

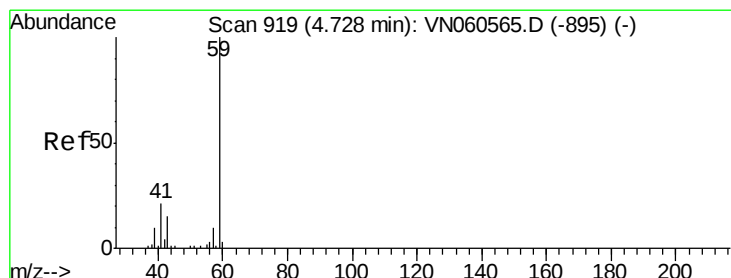
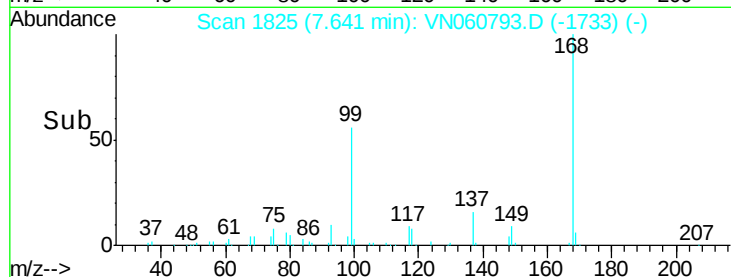
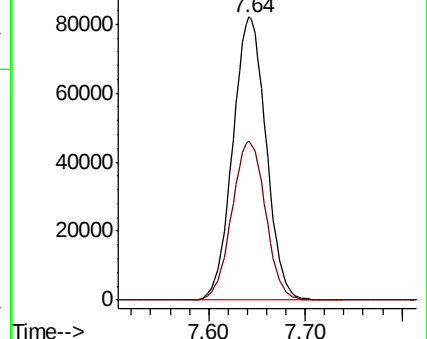
168 100

99 56.0 44.0 66.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#11

Tert butyl alcohol

Concen: 1.298 ug/l

RT: 4.72 min Scan# 917

Delta R.T. -0.01 min

Lab File: VN060793.D

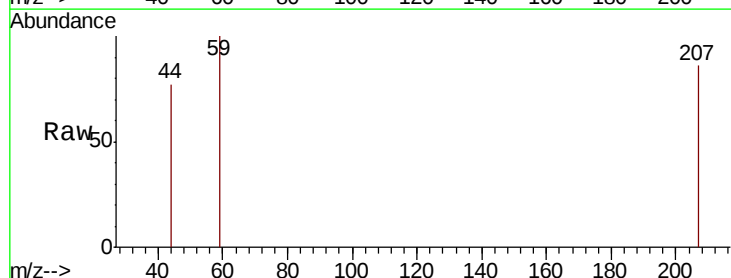
Acq: 31 Mar 2020 17:59

Tgt Ion: 59 Resp: 513

Ion Ratio Lower Upper

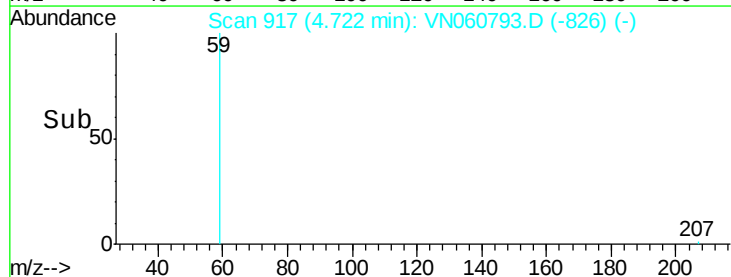
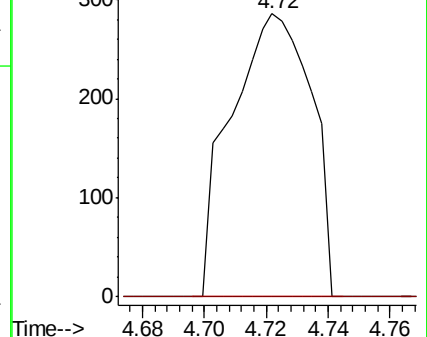
59 100

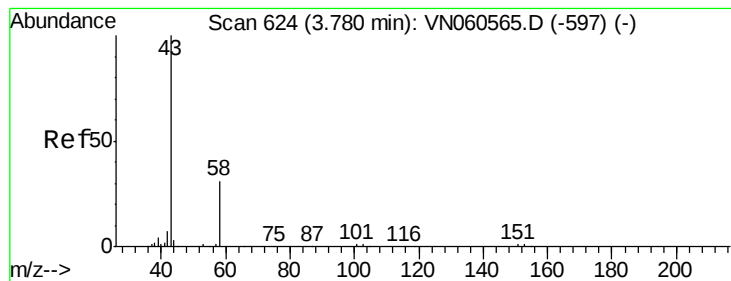
57 0.0 8.2 12.4#



Abundance Ion 59.00 (58.70 to 59.70): VN

Ion 57.00 (56.70 to 57.70): VN





#16

Acetone

Concen: 80.057 ug/l

RT: 3.78 min Scan# 623

Delta R.T. -0.00 min

Lab File: VN060793.D

Acq: 31 Mar 2020 17:59

Instrument :

MSVOA_N

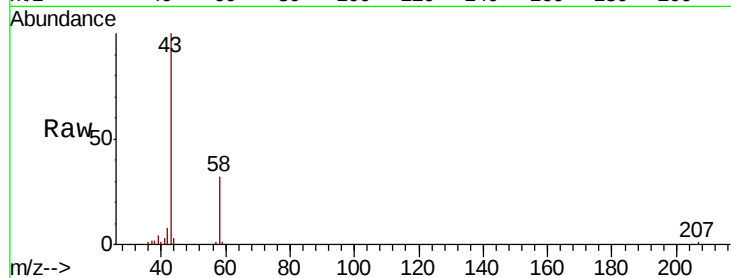
ClientSampled :

Tot Ion: 43 Resp: 76222

Ion Ratio Lower Upper

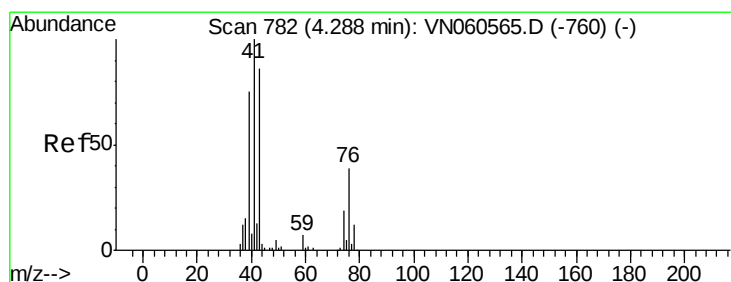
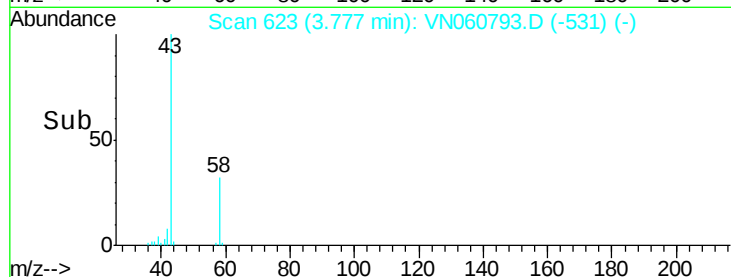
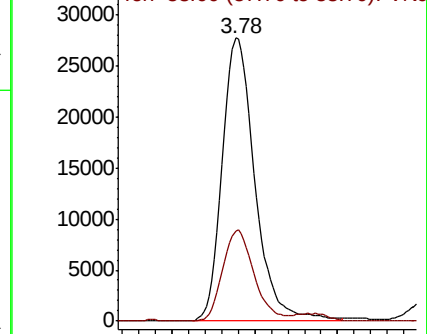
43 100

58 31.7 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: 0.722 ug/l

RT: 4.29 min Scan# 782

Delta R.T. 0.00 min

Lab File: VN060793.D

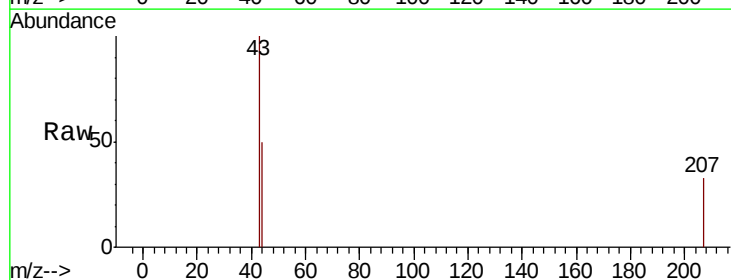
Acq: 31 Mar 2020 17:59

Tgt Ion: 43 Resp: 1935

Ion Ratio Lower Upper

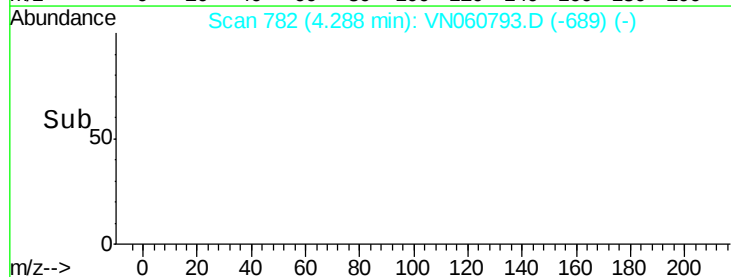
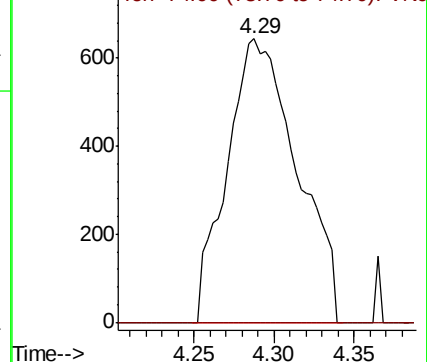
43 100

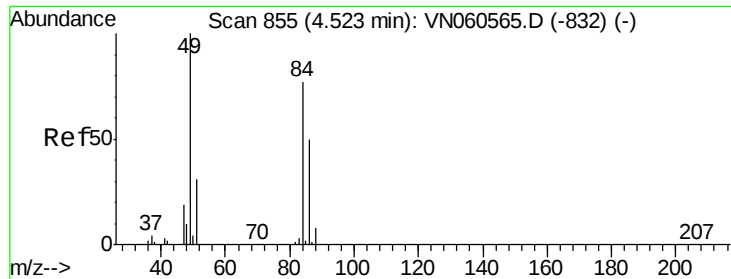
74 0.0 17.5 26.3#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

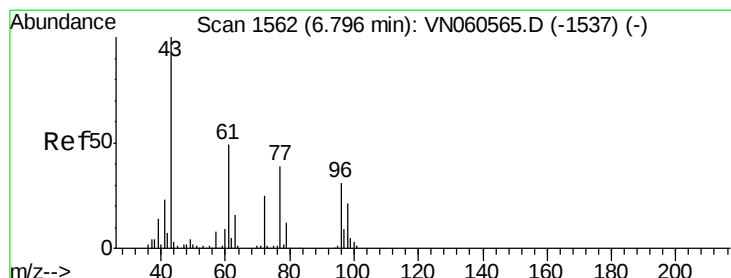
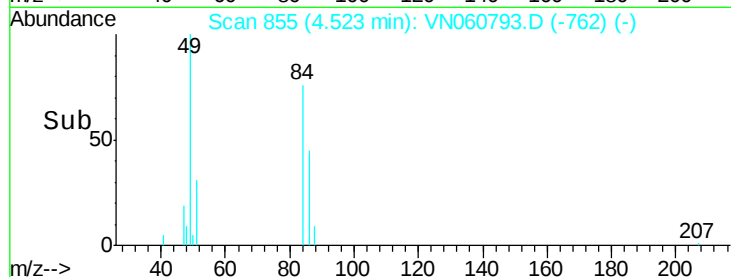
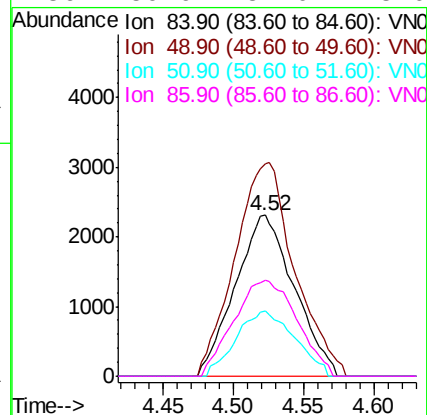
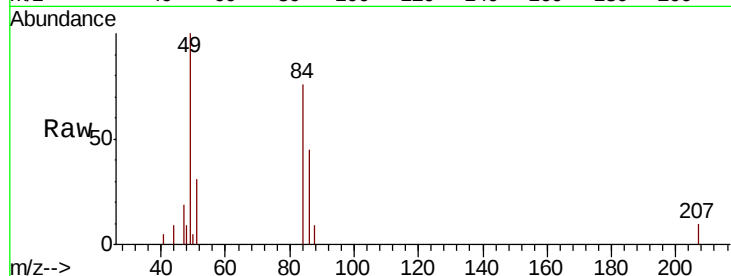




#20
Methvlene Chloride
Concen: 2.882 ug/l
RT: 4.52 min Scan# 855
Delta R.T. 0.00 min
Lab File: VN060793.D
Acq: 31 Mar 2020 17:59

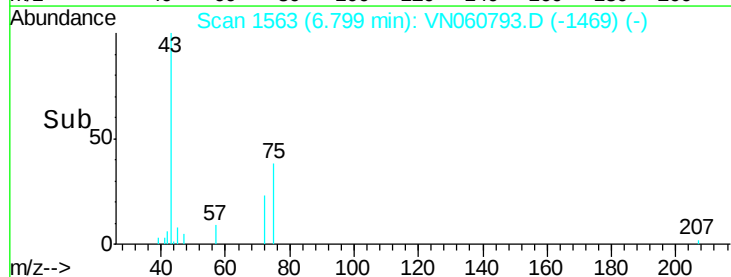
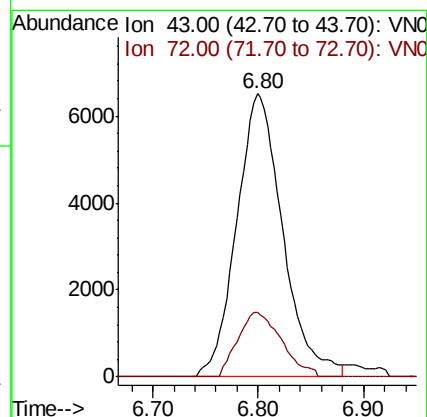
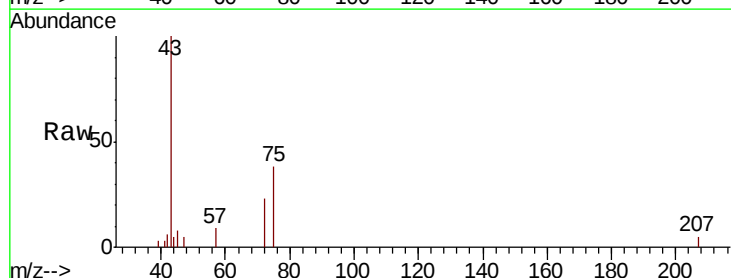
Instrument :
MSVOA_N
ClientSampleId :

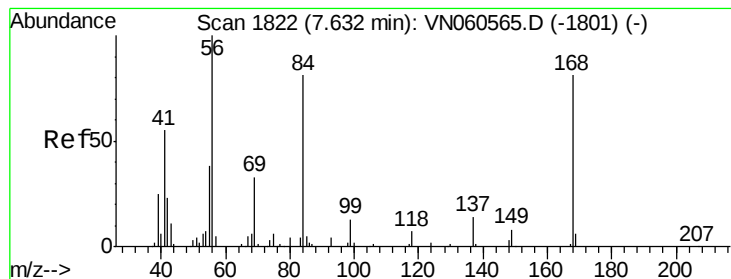
Tot Ion:	84	Resp:	6749
Ion	Ratio	Lower	Upper
84	100		
49	132.1	103.3	154.9
51	41.0	31.6	47.4
86	59.9	52.0	78.0



#25
2-Butanone
Concen: 12.827 ug/l
RT: 6.80 min Scan# 1563
Delta R.T. 0.00 min
Lab File: VN060793.D
Acq: 31 Mar 2020 17:59

Tgt Ion:	43	Resp:	19762
Ion	Ratio	Lower	Upper
43	100		
72	22.9	20.4	30.6





#31

Cyclohexane

Concen: 1.001 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. 0.01 min

Lab File: VN060793.D

Acq: 31 Mar 2020 17:59

Instrument :
MSVOA_N
ClientSampled :

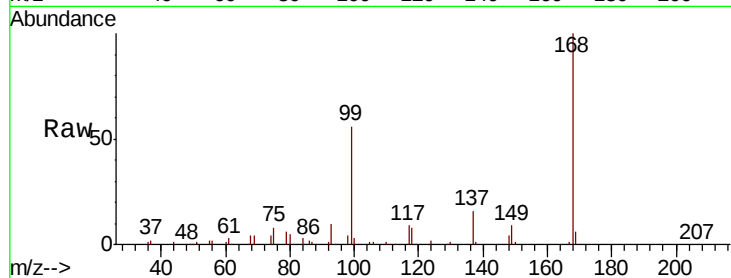
Tot Ion: 56 Resp: 4333

Ion Ratio Lower Upper

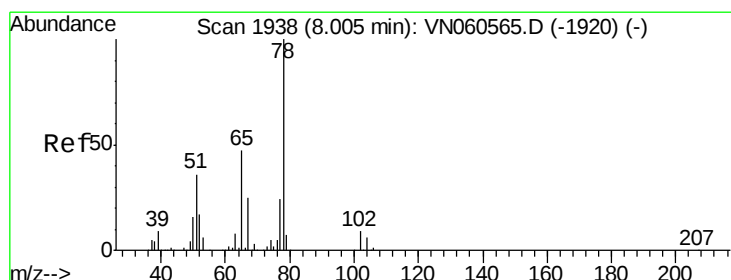
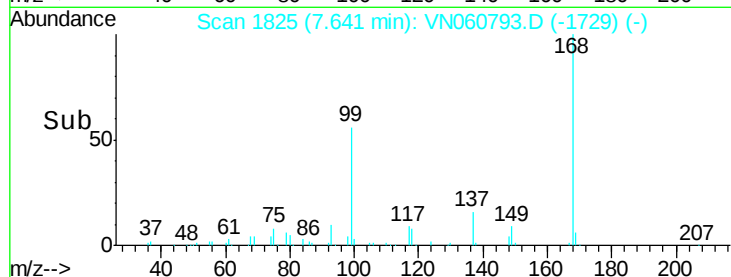
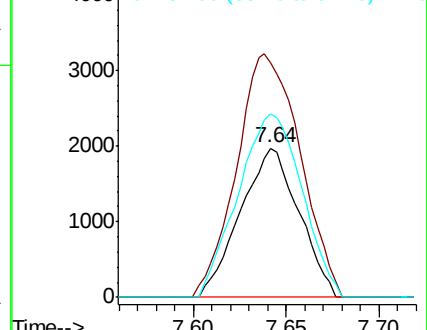
56 100

69 157.6 26.6 40.0#

84 122.9 64.3 96.5#



Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0



#33

1,2-Dichloroethane-d4

Concen: 47.433 ug/l

RT: 8.00 min Scan# 1937

Delta R.T. -0.00 min

Lab File: VN060793.D

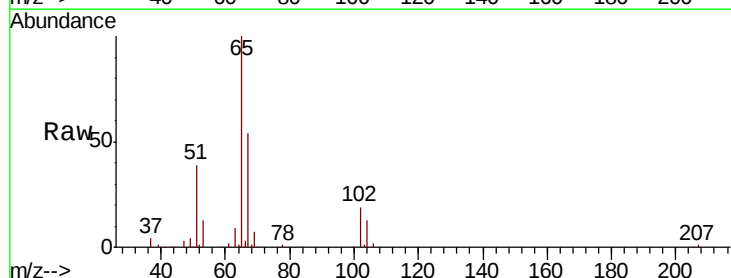
Acq: 31 Mar 2020 17:59

Tgt Ion: 65 Resp: 127493

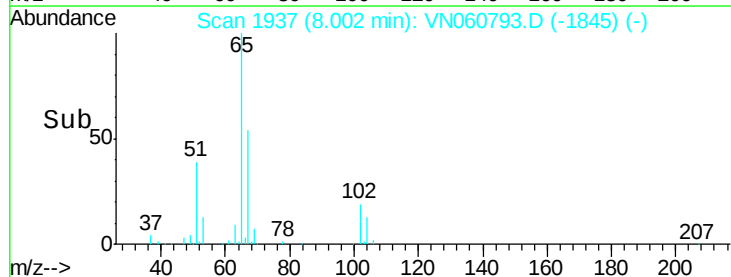
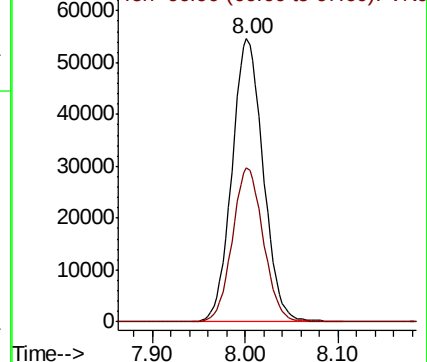
Ion Ratio Lower Upper

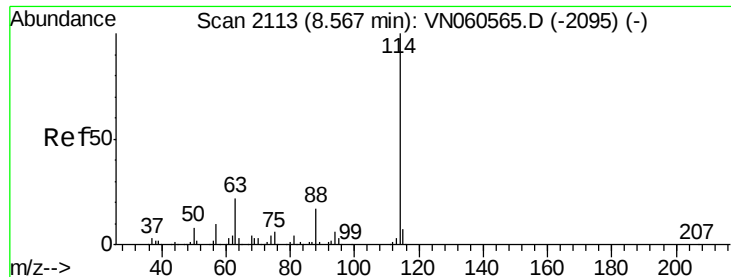
65 100

67 53.8 0.0 107.6



Abundance Ion 64.90 (64.60 to 65.60): VN0
Ion 66.90 (66.60 to 67.60): VN0

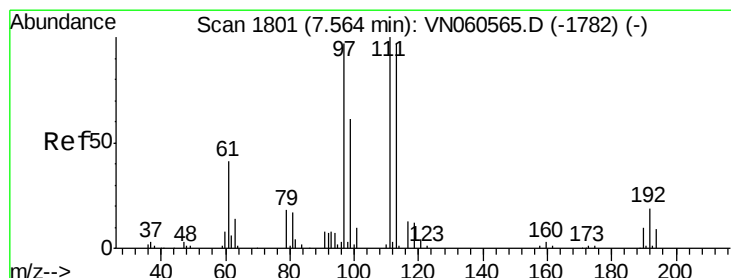
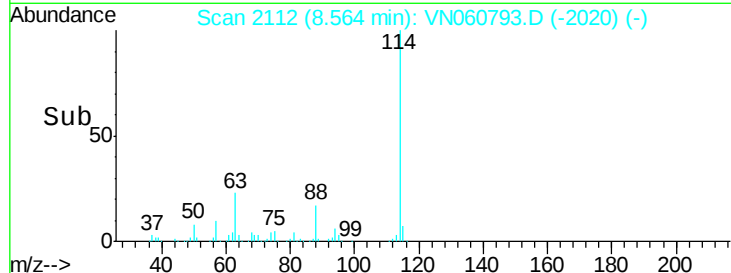
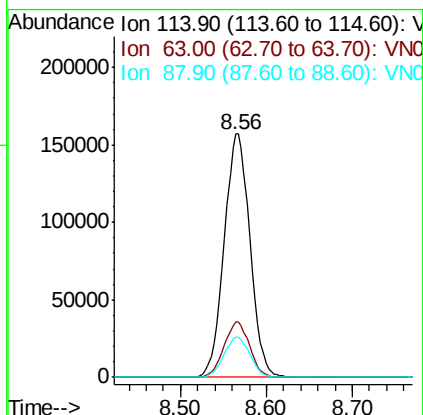
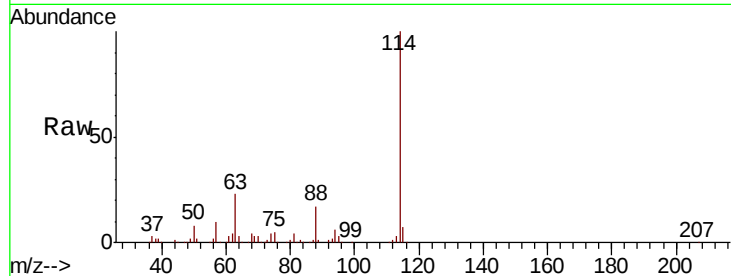




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.56 min Scan# 2112
Delta R.T. -0.00 min
Lab File: VN060793.D
Acq: 31 Mar 2020 17:59

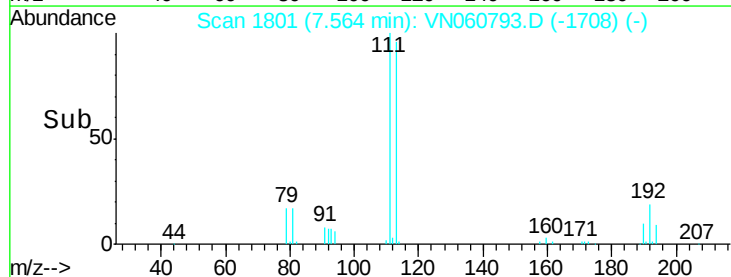
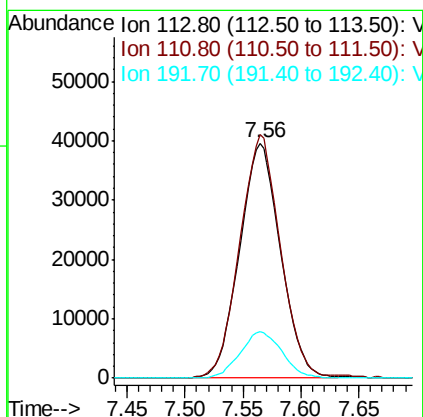
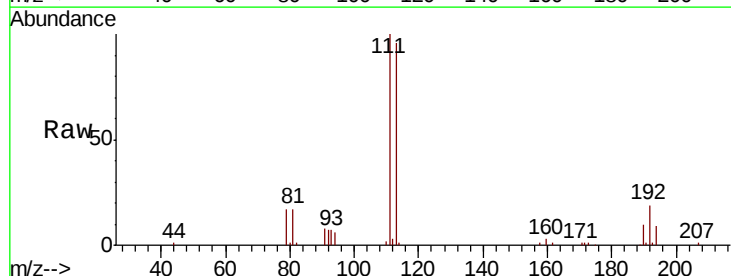
Instrument :
MSVOA_N
ClientSampleId :

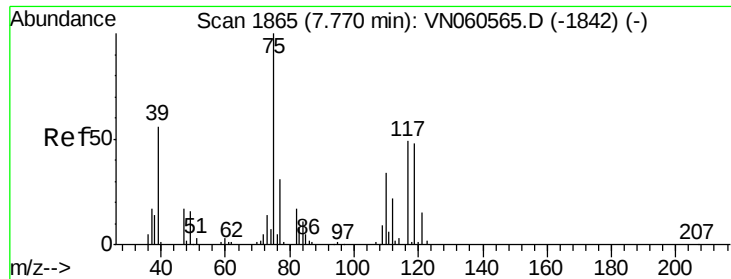
Tot Ion:114 Resp: 327663
Ion Ratio Lower Upper
114 100
63 22.6 0.0 43.8
88 16.7 0.0 33.0



#35
Dibromofluoromethane
Concen: 49.190 ug/l
RT: 7.56 min Scan# 1801
Delta R.T. 0.00 min
Lab File: VN060793.D
Acq: 31 Mar 2020 17:59

Tgt Ion:113 Resp: 97459
Ion Ratio Lower Upper
113 100
111 103.2 82.9 124.3
192 20.0 15.8 23.8

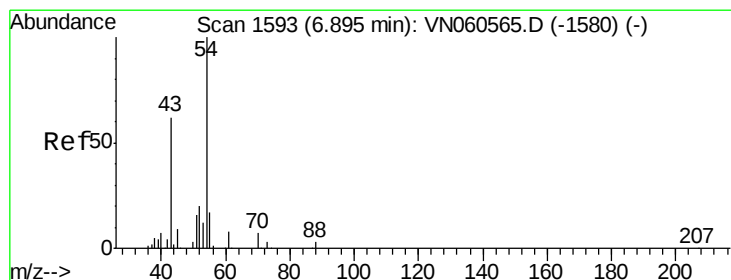
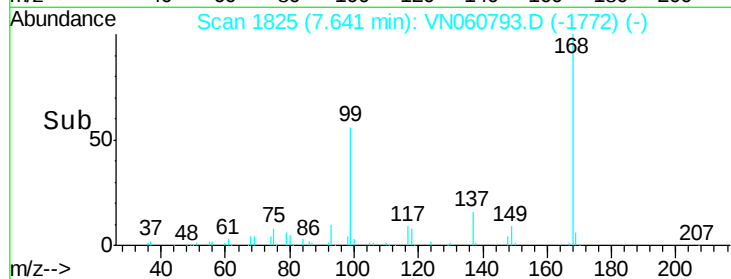
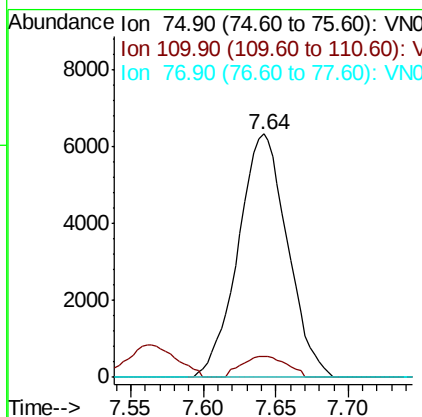
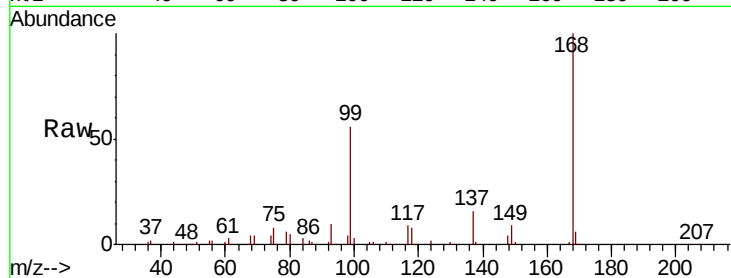




#36
 1,1-Dichloropropene
 Concen: 4.716 ug/l
 RT: 7.64 min Scan# 1825
 Delta R.T. -0.13 min
 Lab File: VN060793.D
 Acq: 31 Mar 2020 17:59

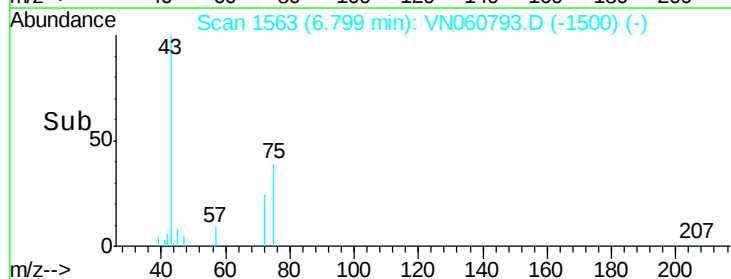
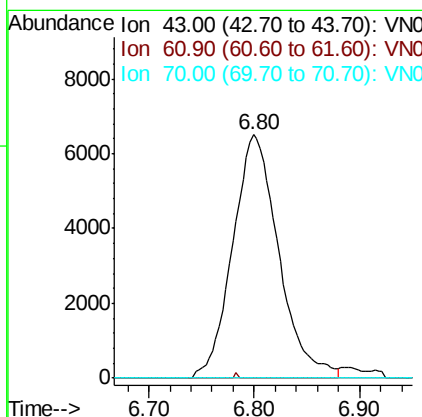
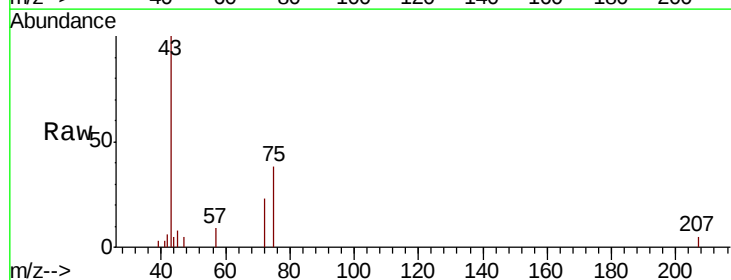
Instrument :
 MSVOA_N
 ClientSampled :

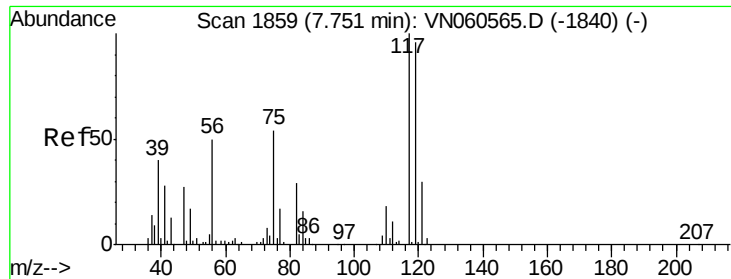
Tot Ion	75	Resp	14962
Ion Ratio	100	Lower	Upper
75	100		
110	7.8	16.9	50.6#
77	0.0	24.6	36.8#



#37
 Ethyl Acetate
 Concen: 5.764 ug/l
 RT: 6.80 min Scan# 1563
 Delta R.T. -0.10 min
 Lab File: VN060793.D
 Acq: 31 Mar 2020 17:59

Tgt Ion	43	Resp	19762
Ion Ratio <td>100</td> <td>Lower</td> <td>Upper</td>	100	Lower	Upper
43	100		
61	0.1	10.6	15.8#
70	0.0	7.9	11.9#

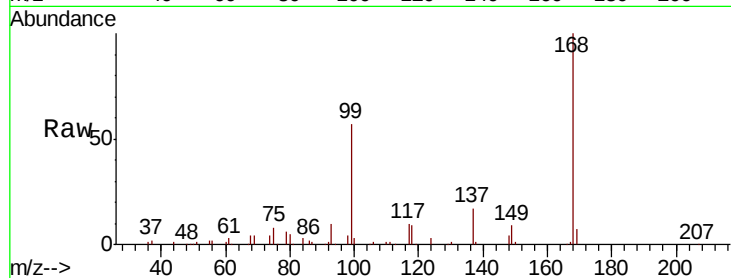




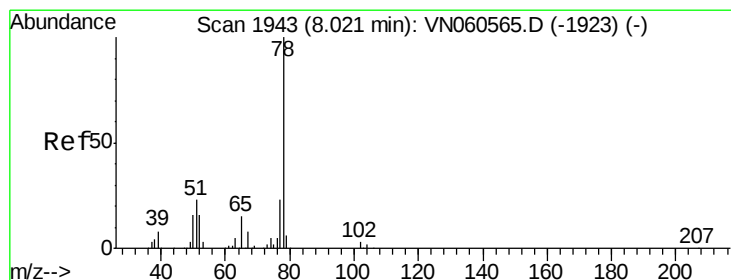
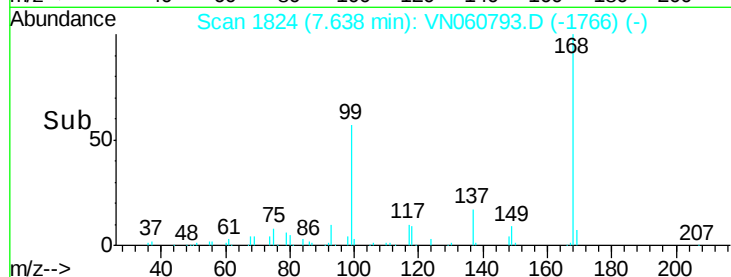
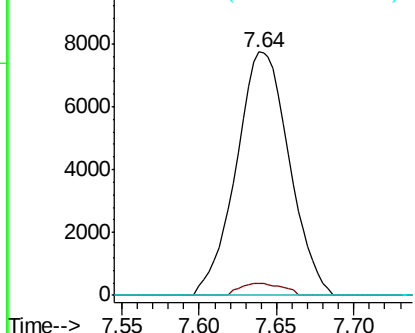
#38
Carbon Tetrachloride
Concen: 6.482 ug/l
RT: 7.64 min Scan# 1824
Delta R.T. -0.11 min
Lab File: VN060793.D
Acq: 31 Mar 2020 17:59

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:117 Resp: 18432
Ion Ratio Lower Upper
117 100
119 4.9 76.2 114.2#
121 0.0 23.7 35.5#

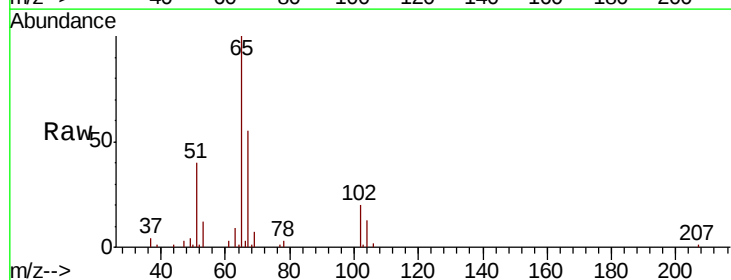


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

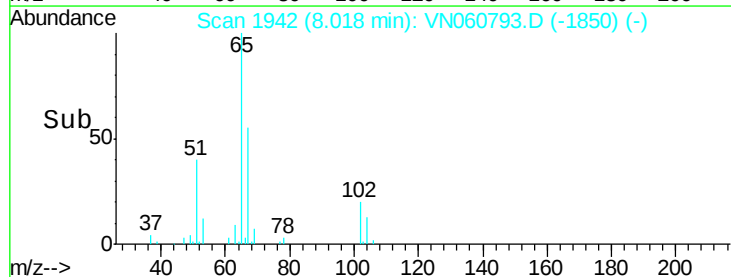
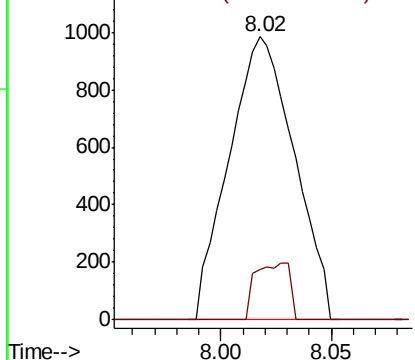


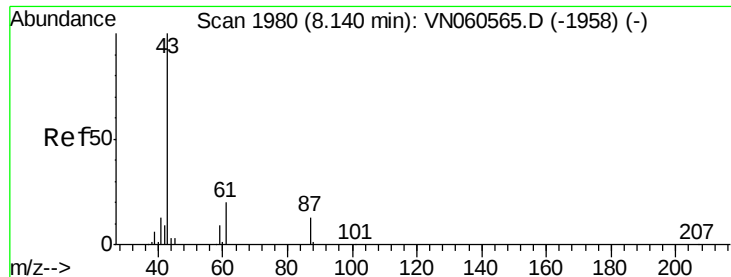
#40
Benzene
Concen: 0.210 ug/l
RT: 8.02 min Scan# 1942
Delta R.T. -0.00 min
Lab File: VN060793.D
Acq: 31 Mar 2020 17:59

Tgt Ion: 78 Resp: 2016
Ion Ratio Lower Upper
78 100
77 18.0 18.6 28.0#



Abundance Ion 78.00 (77.70 to 78.70): V
Ion 77.00 (76.70 to 77.70): V





#43

Isopropyl Acetate

Concen: 0.625 ug/l

RT: 8.14 min Scan# 1980

Delta R.T. 0.00 min

Lab File: VN060793.D

Acq: 31 Mar 2020 17:59

Instrument :

MSVOA_N

ClientSampleId :

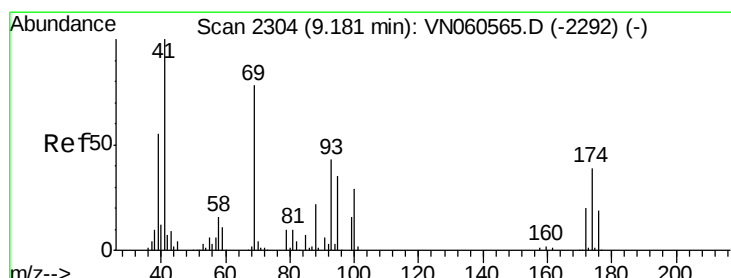
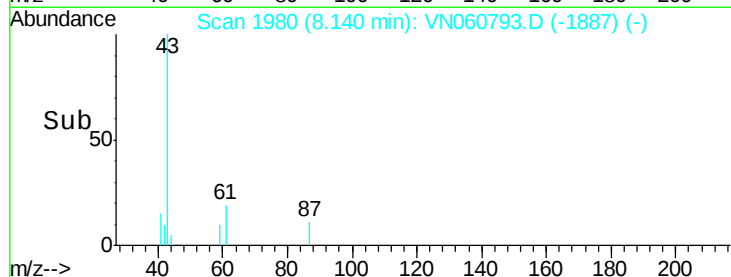
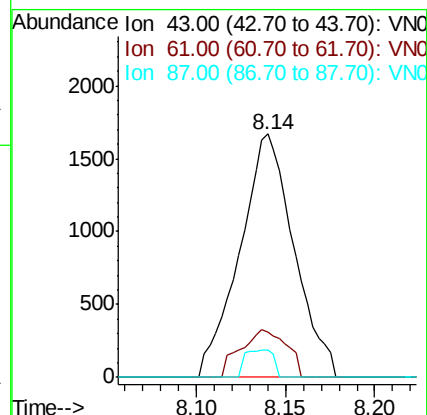
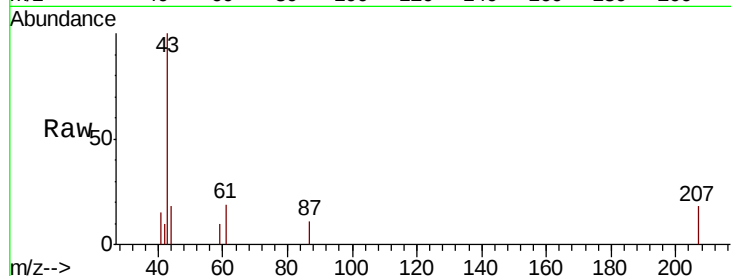
Tot Ion: 43 Resp: 3534

Ion Ratio Lower Upper

43 100

61 16.6 20.7 31.1#

87 5.7 9.8 14.8#



#48

Methyl methacrylate

Concen: 1.324 ug/l

RT: 9.16 min Scan# 2298

Delta R.T. -0.02 min

Lab File: VN060793.D

Acq: 31 Mar 2020 17:59

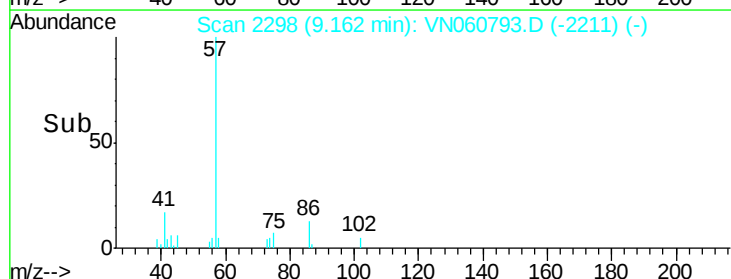
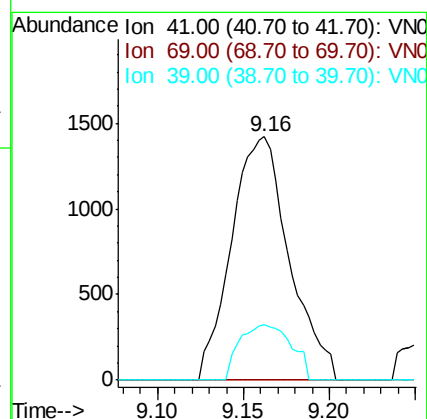
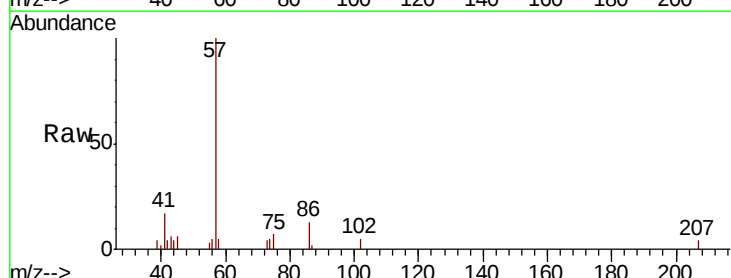
Tgt Ion: 41 Resp: 3332

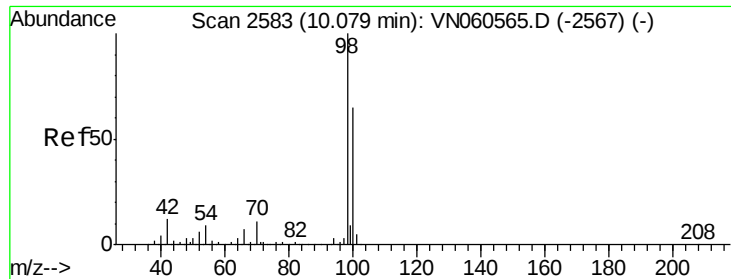
Ion Ratio Lower Upper

41 100

69 0.0 65.4 98.0#

39 20.2 44.0 66.0#





#50

Toluene-d8

Concen: 50.351 ug/l

RT: 10.08 min Scan# 2582

Delta R.T. -0.00 min

Lab File: VN060793.D

Acq: 31 Mar 2020 17:59

Instrument :

MSVOA_N

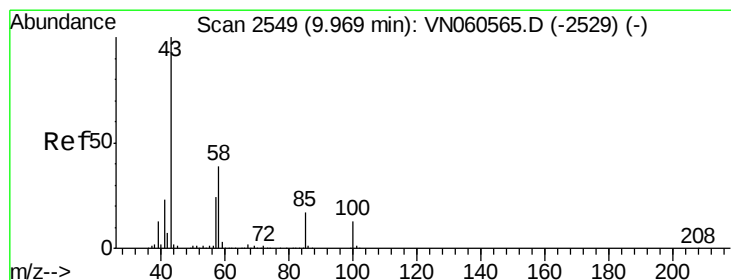
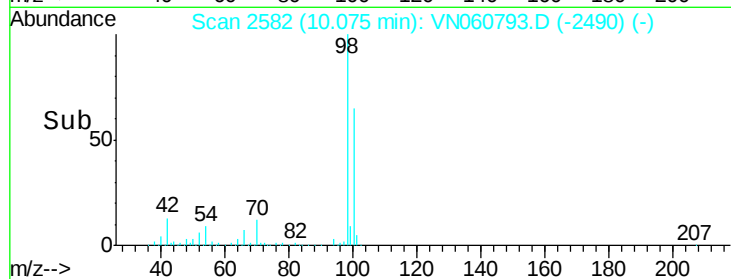
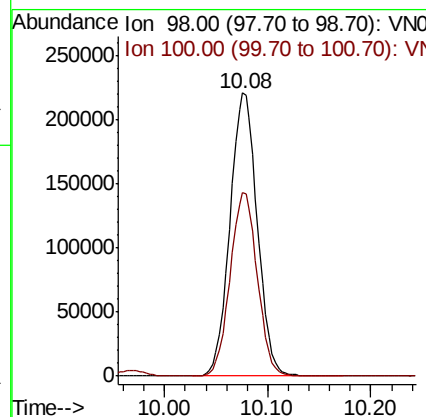
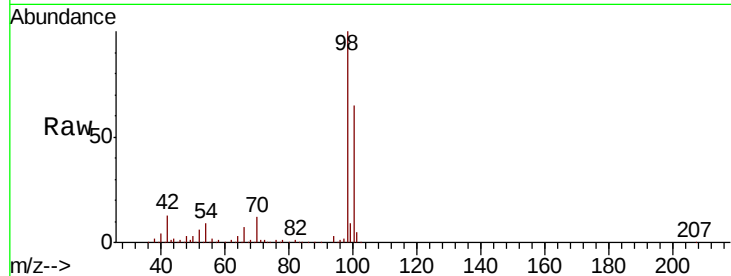
ClientSampleId :

Tot Ion: 98 Resp: 407476

Ion Ratio Lower Upper

98 100

100 64.6 51.8 77.8



#51

4-Methyl-2-Pentanone

Concen: 19.733 ug/l

RT: 9.97 min Scan# 2548

Delta R.T. -0.00 min

Lab File: VN060793.D

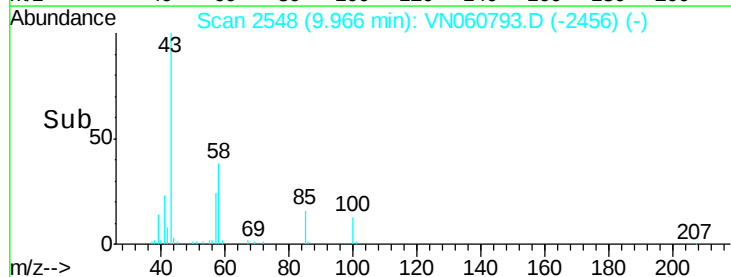
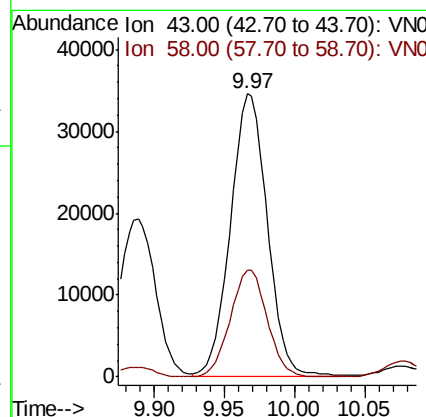
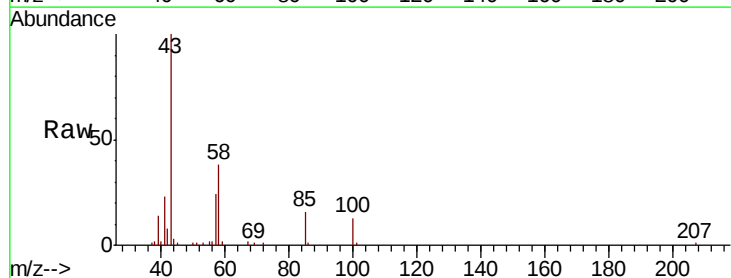
Acq: 31 Mar 2020 17:59

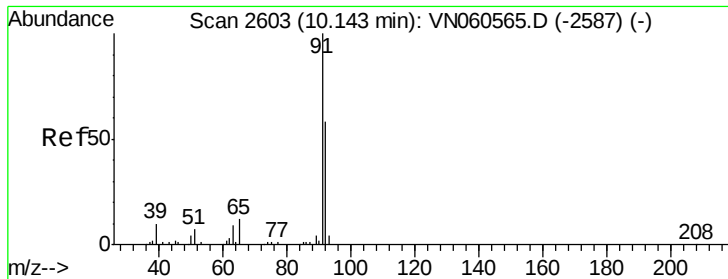
Tgt Ion: 43 Resp: 63486

Ion Ratio Lower Upper

43 100

58 37.5 30.8 46.2





#52

Toluene

Concen: 0.436 ug/l

RT: 10.14 min Scan# 2602

Delta R.T. -0.00 min

Lab File: VN060793.D

Acq: 31 Mar 2020 17:59

Instrument :

MSVOA_N

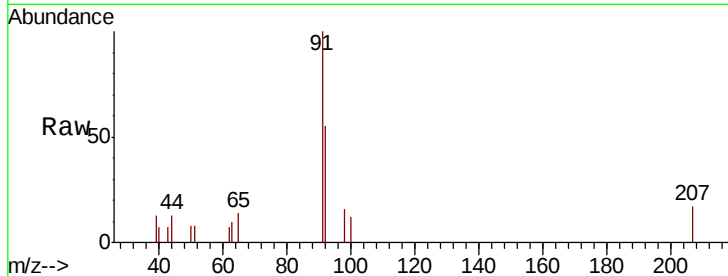
ClientSampled :

Tot Ion: 92 Resp: 2521

Ion Ratio Lower Upper

92 100

91 179.6 137.6 206.4



Abundance Ion 92.00 (91.70 to 92.70): VN060793.D (-2510) (-)

Ion 91.00 (90.70 to 91.70): VN060793.D (-2510) (-)

2500

2000

1500

1000

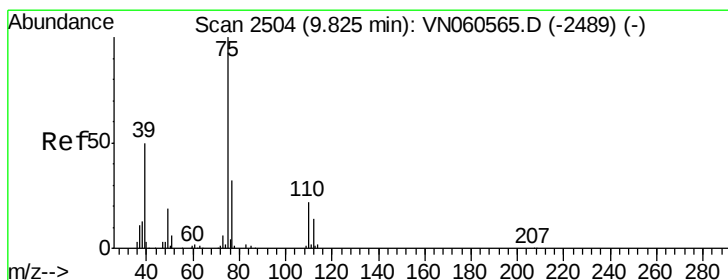
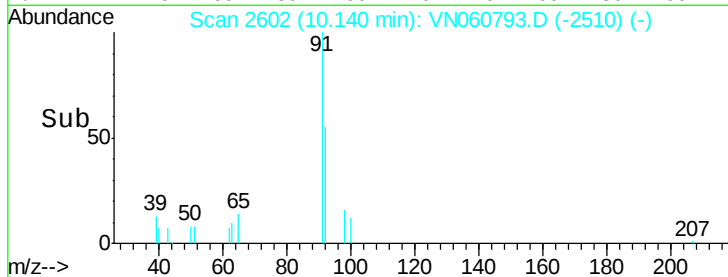
500

0

10.10

10.15

Time-->



#54

cis-1,3-Dichloropropene

Concen: 4.055 ug/l

RT: 9.89 min Scan# 2524

Delta R.T. 0.06 min

Lab File: VN060793.D

Acq: 31 Mar 2020 17:59

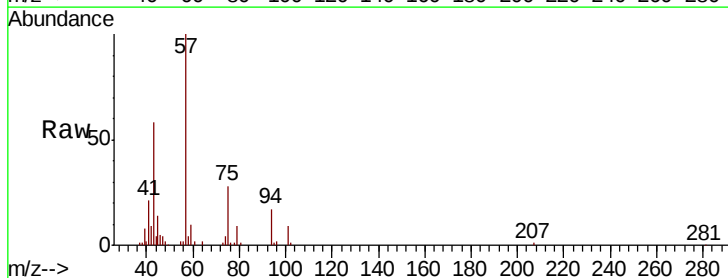
Tgt Ion: 75 Resp: 16225

Ion Ratio Lower Upper

75 100

77 0.0 25.4 38.0#

39 29.4 40.2 60.4#



Abundance Ion 74.90 (74.60 to 75.60): VN060793.D (-2411) (-)

Ion 76.90 (76.60 to 77.60): VN060793.D (-2411) (-)

Ion 39.00 (38.70 to 39.70): VN060793.D (-2411) (-)

12000

10000

8000

6000

4000

2000

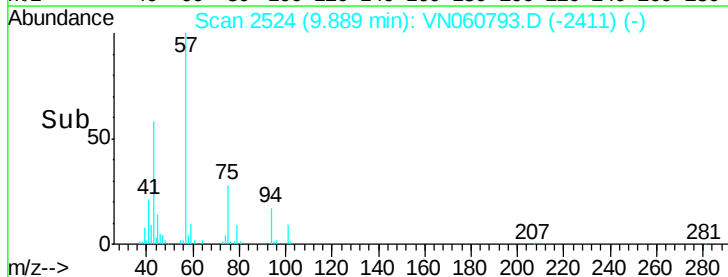
0

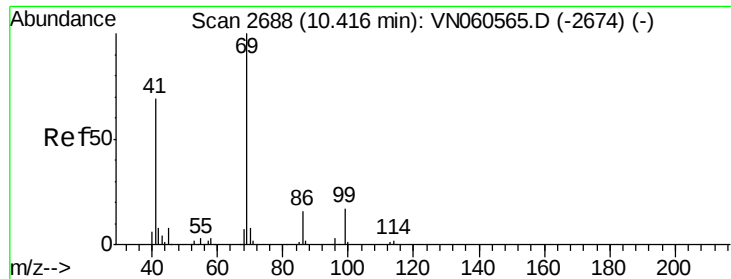
9.85

9.90

9.95

Time-->





#56

Ethyl methacrylate

Concen: 1.397 ug/l

RT: 10.34 min Scan# 2665

Delta R.T. -0.07 min

Lab File: VN060793.D

Acq: 31 Mar 2020 17:59

Instrument :

MSVOA_N

ClientSampled :

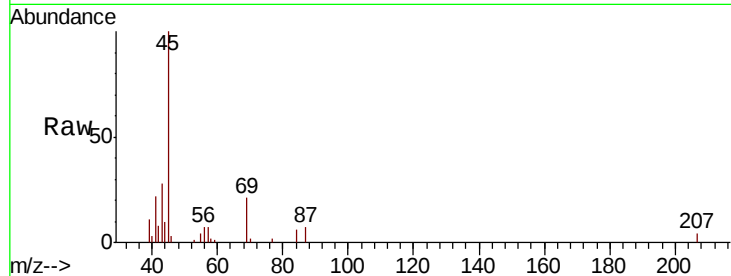
Tot Ion: 69 Resp: 4848

Ion Ratio Lower Upper

69 100

41 105.7 55.4 83.2#

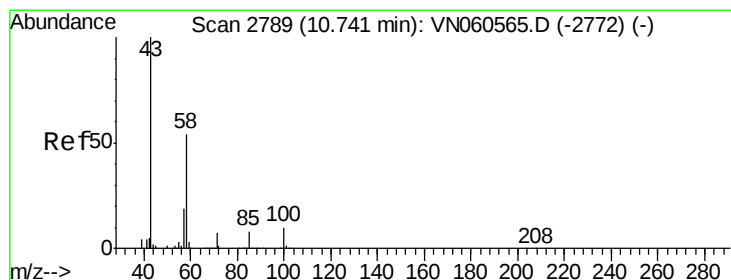
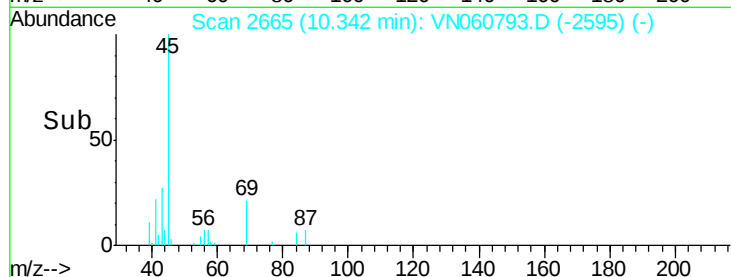
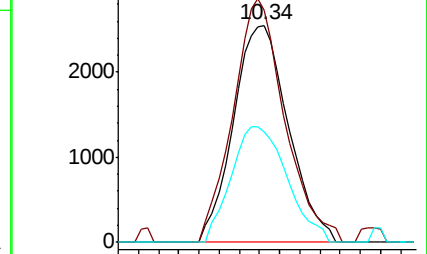
39 54.3 29.4 44.0#



Abundance Ion 69.00 (68.70 to 69.70): VN060793.D (-2595) (-)

Ion 41.00 (40.70 to 41.70): VN060793.D (-2595) (-)

Ion 39.00 (38.70 to 39.70): VN060793.D (-2595) (-)



#59

2-Hexanone

Concen: 4.421 ug/l

RT: 10.75 min Scan# 2792

Delta R.T. 0.01 min

Lab File: VN060793.D

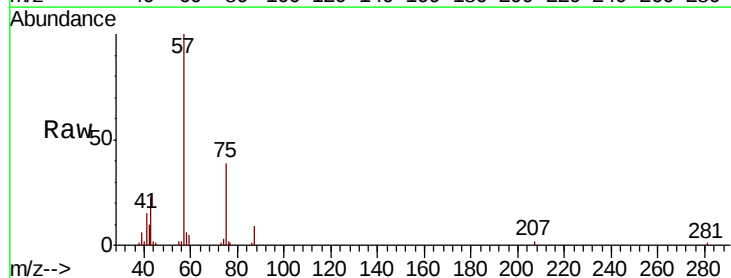
Acq: 31 Mar 2020 17:59

Tgt Ion: 43 Resp: 10246

Ion Ratio Lower Upper

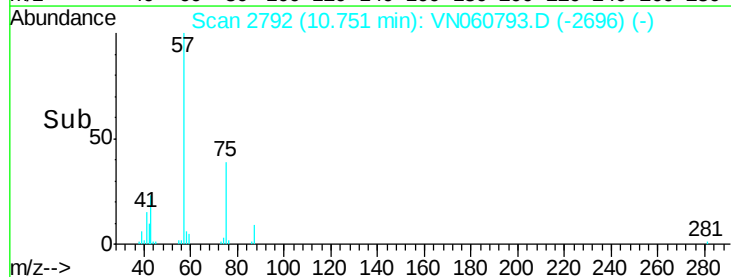
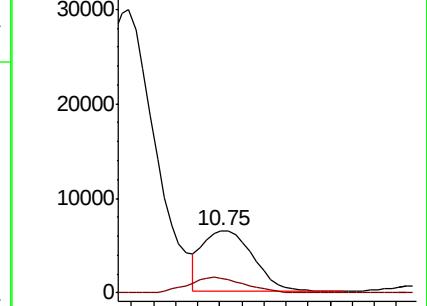
43 100

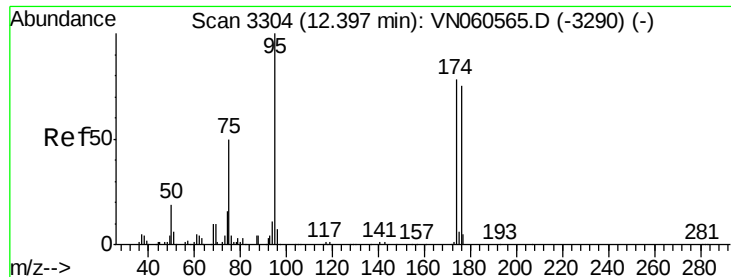
58 28.5 26.7 80.1



Abundance Ion 43.00 (42.70 to 43.70): VN060793.D (-2696) (-)

Ion 58.00 (57.70 to 58.70): VN060793.D (-2696) (-)





#62

4-Bromofluorobenzene

Concen: 51.847 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.00 min

Lab File: VN060793.D

Acq: 31 Mar 2020 17:59

Instrument :

MSVOA_N

ClientSampleId :

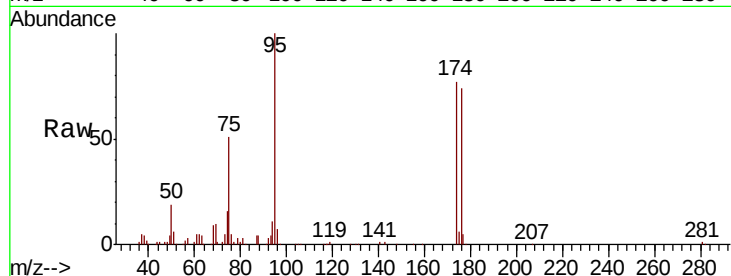
Tot Ion: 95 Resp: 153771

Ion Ratio Lower Upper

95 100

174 78.0 0.0 157.6

176 75.4 0.0 150.6



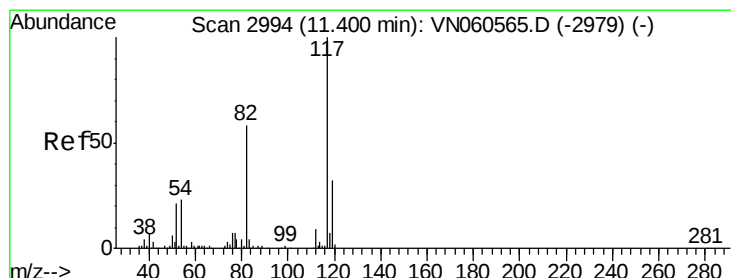
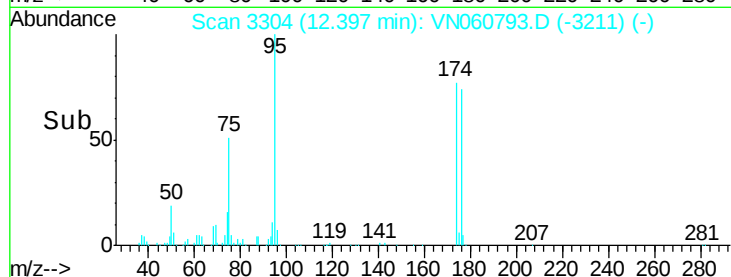
Abundance Ion 94.90 (94.60 to 95.60): VN060793.D (-3211) (-)

Ion 173.80 (173.50 to 174.50): VN060793.D (-3211) (-)

Ion 175.80 (175.50 to 176.50): VN060793.D (-3211) (-)

12.40

Time--> 12.30 12.35 12.40 12.45



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.40 min Scan# 2994

Delta R.T. 0.00 min

Lab File: VN060793.D

Acq: 31 Mar 2020 17:59

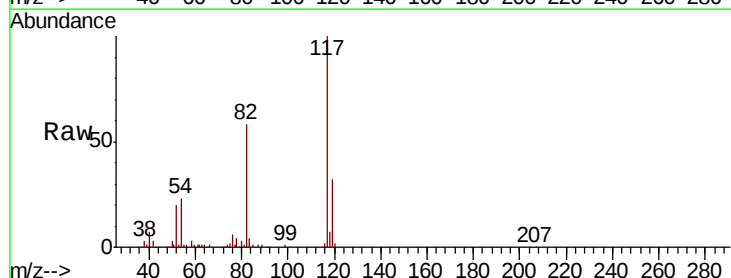
Tgt Ion: 117 Resp: 307714

Ion Ratio Lower Upper

117 100

82 57.9 46.7 70.1

119 32.2 25.5 38.3



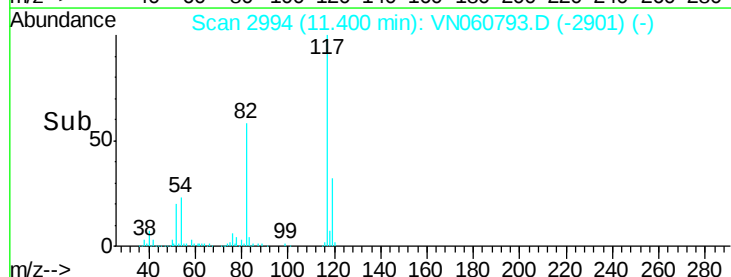
Abundance Ion 116.90 (116.60 to 117.60): VN060793.D (-2901) (-)

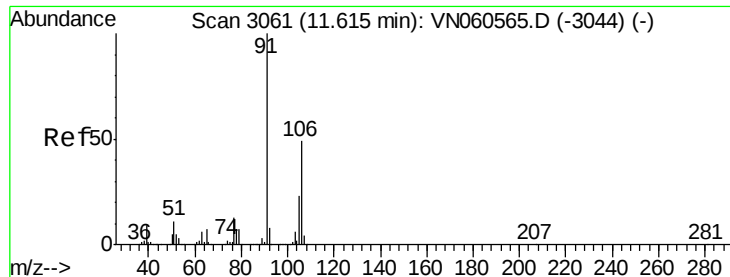
Ion 82.00 (81.70 to 82.70): VN060793.D (-2901) (-)

Ion 118.90 (118.60 to 119.60): VN060793.D (-2901) (-)

11.40

Time--> 11.30 11.40 11.50





#68

m/p-Xvlenes

Concen: 0.222 ug/l

RT: 11.61 min Scan# 3059

Delta R.T. -0.01 min

Lab File: VN060793.D

Acq: 31 Mar 2020 17:59

Instrument :

MSVOA_N

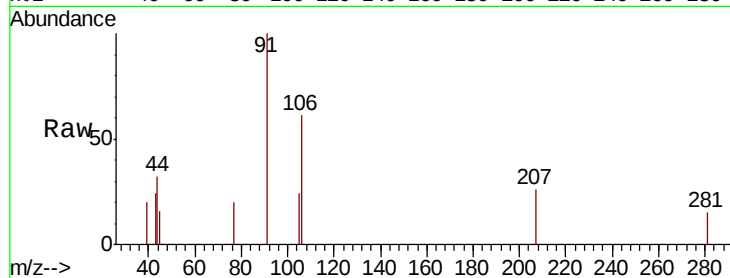
ClientSampled :

Tot Ion:106 Resp: 934

Ion Ratio Lower Upper

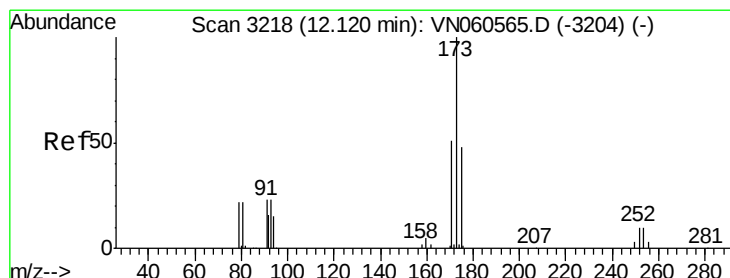
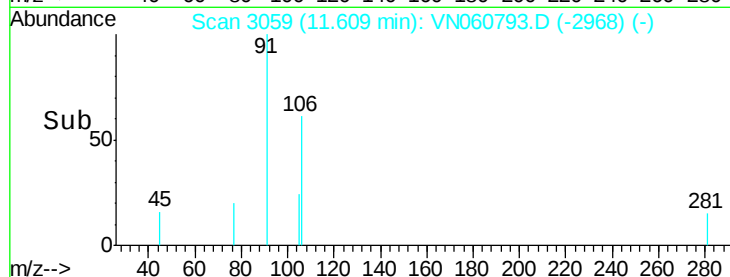
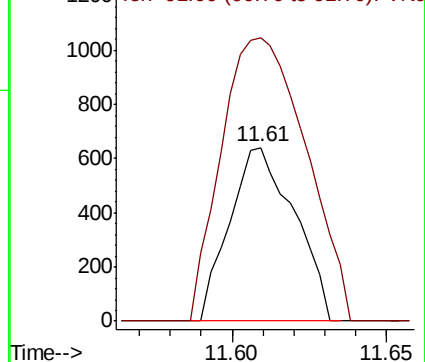
106 100

91 212.0 165.0 247.4



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VN



#71

Bromoform

Concen: 1.746 ug/l

RT: 12.39 min Scan# 3301

Delta R.T. 0.27 min

Lab File: VN060793.D

Acq: 31 Mar 2020 17:59

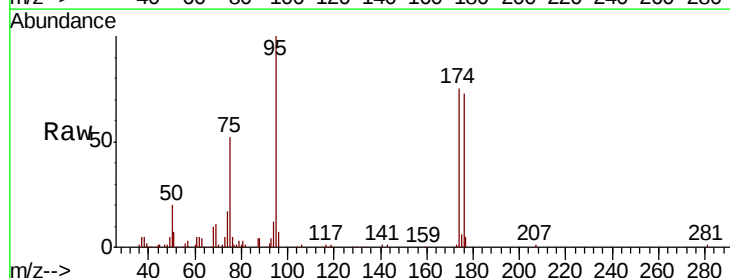
Tgt Ion:173 Resp: 124

Ion Ratio Lower Upper

173 100

175 0.0 24.1 72.4#

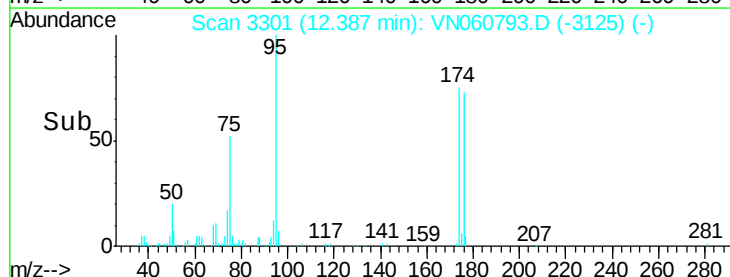
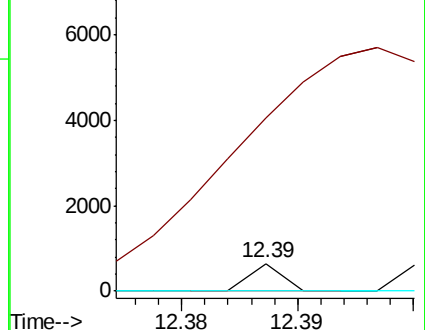
254 0.0 0.0 0.0

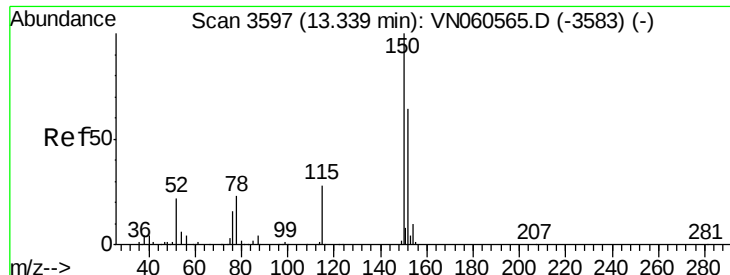


Abundance Ion 172.70 (172.40 to 173.40): V

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: VN060793.D

Acq: 31 Mar 2020 17:59

Instrument :

MSVOA_N

ClientSampleId :

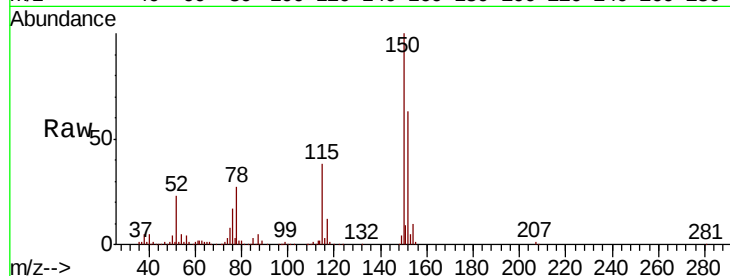
Tot Ion:152 Resp: 145082

Ion Ratio Lower Upper

152 100

115 60.6 30.2 90.6

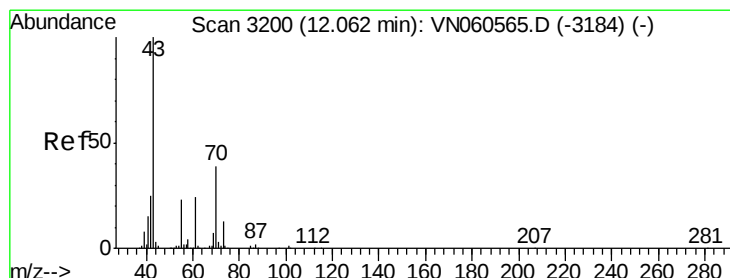
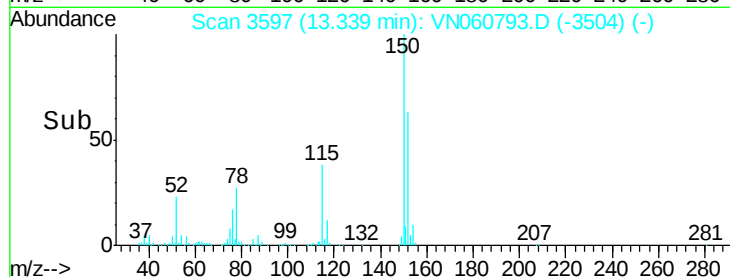
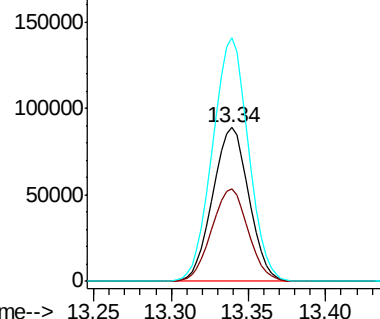
150 157.1 0.0 350.2



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-ethyl acetate

Concen: 0.973 ug/l

RT: 12.02 min Scan# 3186

Delta R.T. -0.04 min

Lab File: VN060793.D

Acq: 31 Mar 2020 17:59

Tgt Ion: 43 Resp: 4893

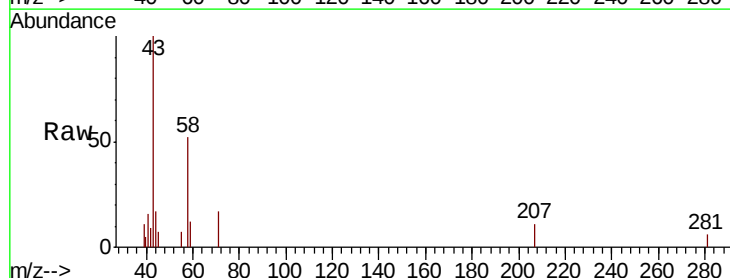
Ion Ratio Lower Upper

43 100

70 0.0 31.1 46.7#

55 6.4 18.6 27.8#

61 0.0 18.9 28.3#

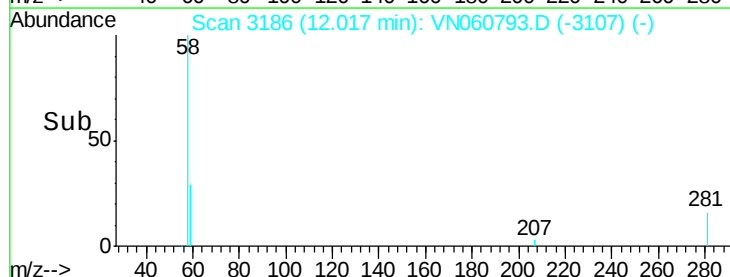
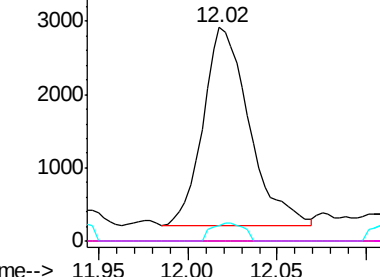


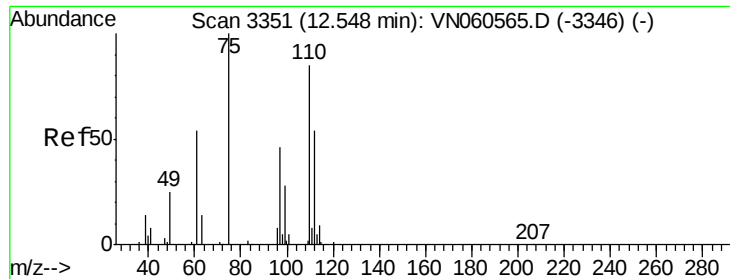
Abundance Ion 43.00 (42.70 to 43.70): VN0

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: 24.925 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN060793.D

Acq: 31 Mar 2020 17:59

Instrument :

MSVOA_N

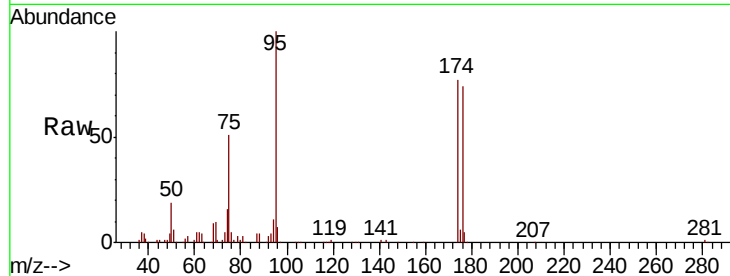
ClientSampleId :

Tot Ion: 75 Resp: 78029

Ion Ratio Lower Upper

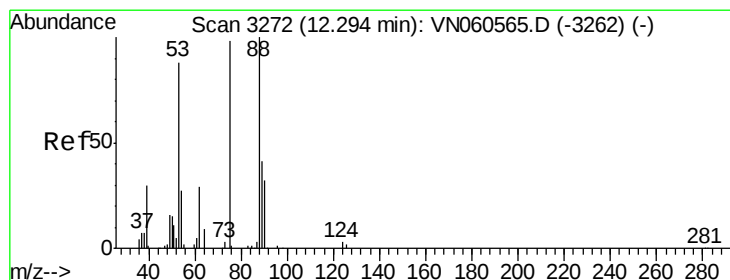
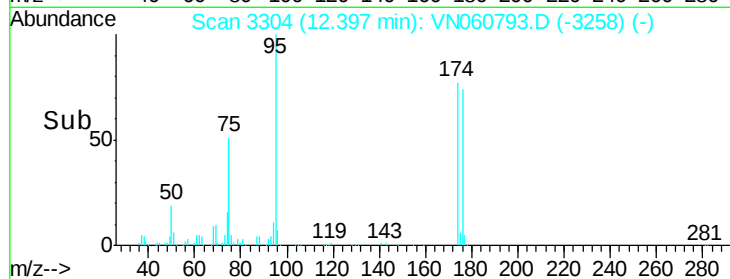
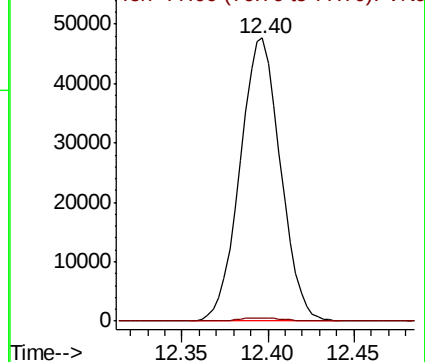
75 100

77 1.2 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: 64.014 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.10 min

Lab File: VN060793.D

Acq: 31 Mar 2020 17:59

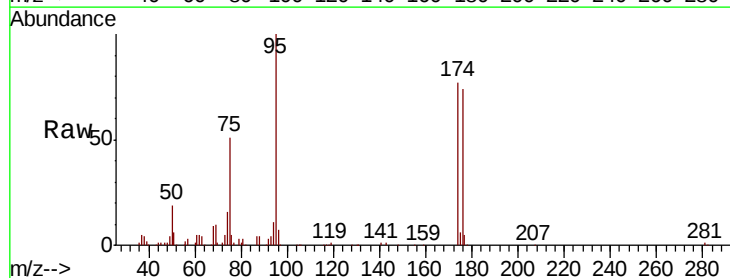
Tgt Ion: 75 Resp: 78029

Ion Ratio Lower Upper

75 100

53 0.0 73.0 109.4#

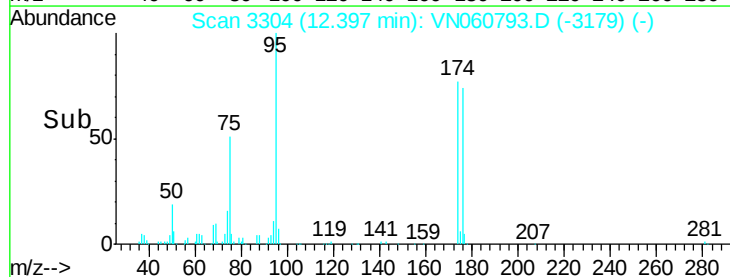
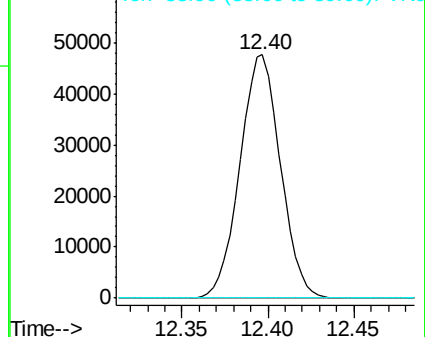
89 0.0 34.8 52.2#

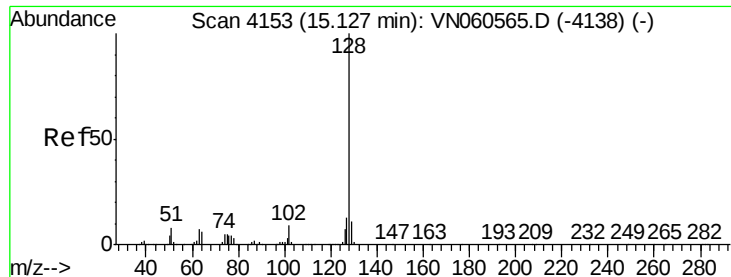


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0





#95

Naphthalene

Concen: 0.210 ug/l

RT: 15.13 min Scan# 4154

Delta R.T. 0.00 min

Lab File: VN060793.D

Acq: 31 Mar 2020 17:59

Instrument :

MSVOA_N

ClientSampleId :

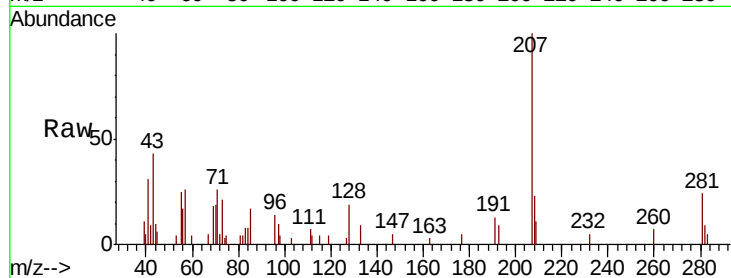
Tot Ion:128 Resp: 1713

Ion Ratio Lower Upper

128 100

127 3.5 10.2 15.2#

129 5.5 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

