

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN020720\
 Data File : VN060026.D
 Acq On : 7 Feb 2020 13:06
 Operator : JC/MD
 Sample : L1433-02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Feb 07 23:13:30 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N011320W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jan 18 03:09:32 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	193018	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	301812	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	284155	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	130447	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.00	65	111247	51.90	ug/l	0.00
Spiked Amount 50.000			Recovery =	103.80%		
35) Dibromofluoromethane	7.57	113	92198	51.23	ug/l	0.00
Spiked Amount 50.000			Recovery =	102.46%		
50) Toluene-d8	10.08	98	365073	52.35	ug/l	0.00
Spiked Amount 50.000			Recovery =	104.70%		
62) 4-Bromofluorobenzene	12.40	95	132455	52.69	ug/l	0.00
Spiked Amount 50.000			Recovery =	105.38%		

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.80	43	4721	Below Cal		90
18) Methyl Acetate	4.30	43	1310	0.523	ug/l #	54
20) Methylene Chloride	4.52	84	5738	1.709	ug/l	93
31) Cyclohexane	7.64	56	3699	1.166	ug/l #	10
36) 1,1-Dichloropropene	7.64	75	14013	5.332	ug/l #	50
38) Carbon Tetrachloride	7.64	117	18177	6.358	ug/l #	15
43) Isopropyl Acetate	8.14	43	43203	10.189	ug/l	92
45) 1,2-Dichloropropane	9.25	63	862	0.444	ug/l #	44
48) Methyl methacrylate	9.16	41	2477	1.306	ug/l #	13
51) 4-Methyl-2-Pentanone	9.97	43	2573	1.050	ug/l	93
54) cis-1,3-Dichloropropene	9.89	75	19836	6.123	ug/l #	58
57) 1,3-Dichloropropane	10.75	76	3145	1.010	ug/l #	42
59) 2-Hexanone	10.75	43	43152	23.898	ug/l #	54
74) N-amyl acetate	12.03	43	2290	0.617	ug/l #	45
76) 1,2,3-Trichloropropane	12.40	75	67746	30.860	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	67746	66.271	ug/l #	11
92) 1,2-Dibromo-3-Chloropropan	14.43	75	59	Below Cal	#	6
95) Naphthalene	15.13	128	1481	0.208	ug/l #	69

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. 0.00 min

Lab File: VN060026.D

Acq: 7 Feb 2020 13:06

Instrument :

MSVOA_N

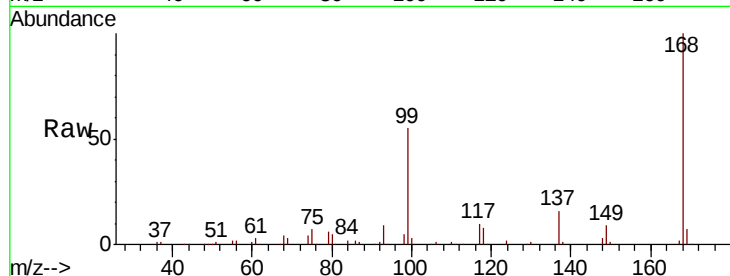
ClientSampled :

Tot Ion:168 Resp: 193018

Ion Ratio Lower Upper

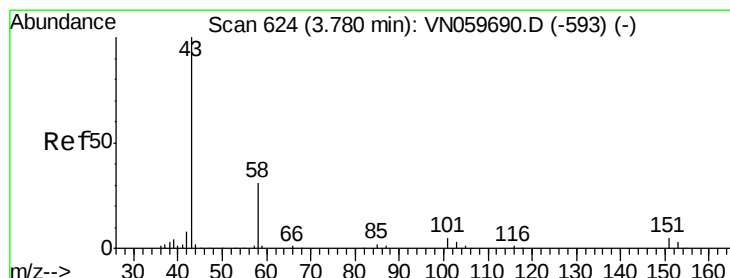
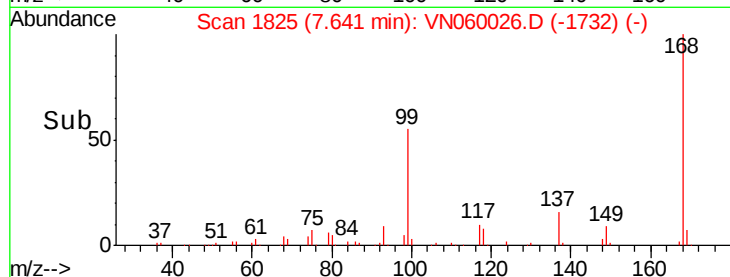
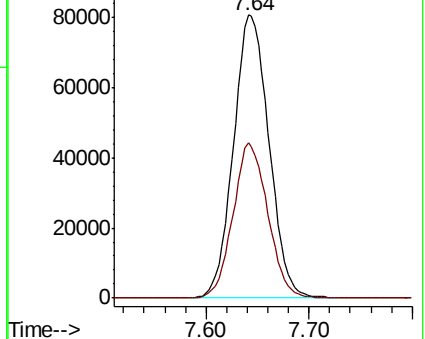
168 100

99 54.8 48.2 72.4



Abundance Ion 167.90 (167.60 to 168.60): VN060026.D (-1732) (-)

Ion 98.90 (98.60 to 99.60): VN060026.D (-1732) (-)



#16

Acetone

Concen: Below Cal

RT: 3.80 min Scan# 629

Delta R.T. 0.02 min

Lab File: VN060026.D

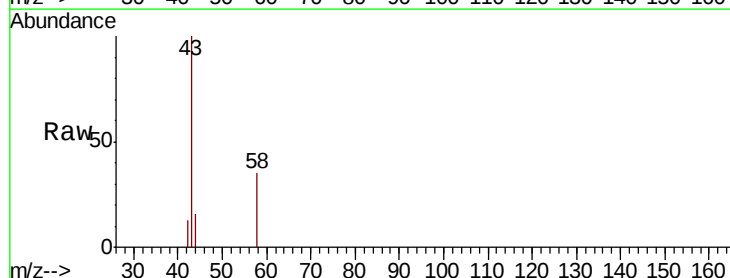
Acq: 7 Feb 2020 13:06

Tgt Ion: 43 Resp: 4721

Ion Ratio Lower Upper

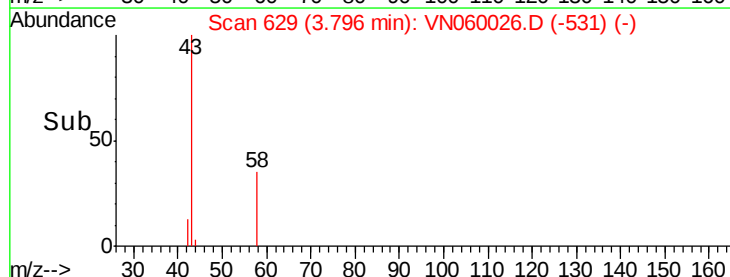
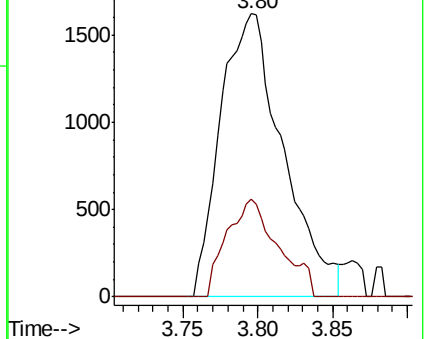
43 100

58 34.7 23.6 35.4



Abundance Ion 43.00 (42.70 to 43.70): VN060026.D (-531) (-)

Ion 58.00 (57.70 to 58.70): VN060026.D (-531) (-)

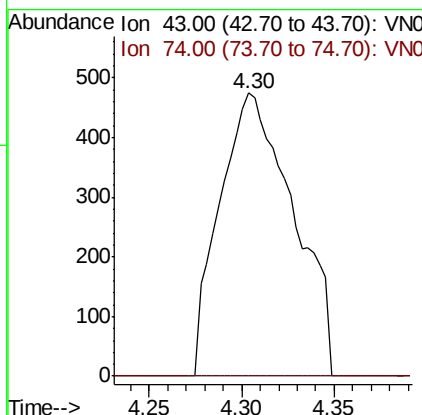
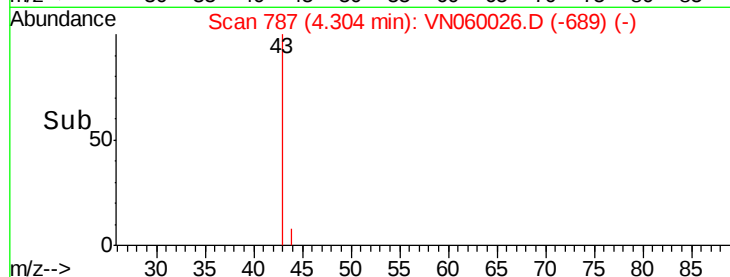
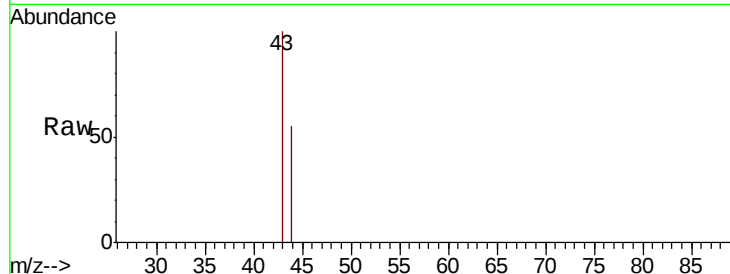




#18
Methyl Acetate
Concen: 0.523 ug/l
RT: 4.30 min Scan# 787
Delta R.T. 0.02 min
Lab File: VN060026.D
Acq: 7 Feb 2020 13:06

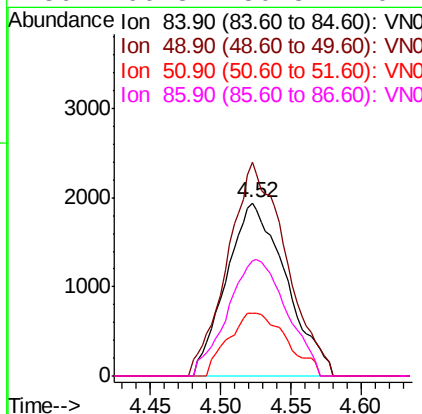
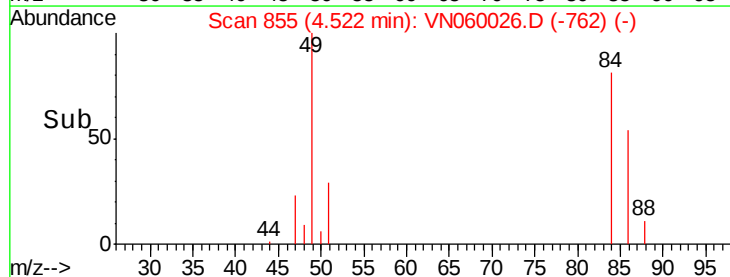
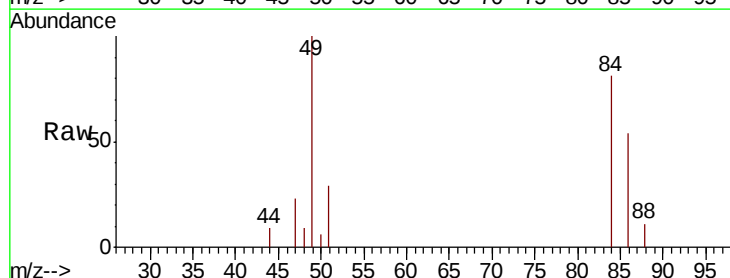
Instrument :
MSVOA_N
ClientSampled :

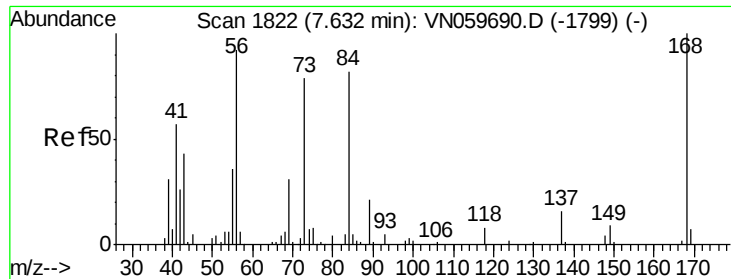
Tot Ion: 43 Resp: 1310
Ion Ratio Lower Upper
43 100
74 0.0 17.5 26.3#



#20
Methylene Chloride
Concen: 1.709 ug/l
RT: 4.52 min Scan# 855
Delta R.T. 0.00 min
Lab File: VN060026.D
Acq: 7 Feb 2020 13:06

Tgt Ion: 84 Resp: 5738
Ion Ratio Lower Upper
84 100
49 123.2 106.6 160.0
51 36.3 31.9 47.9
86 66.3 50.8 76.2

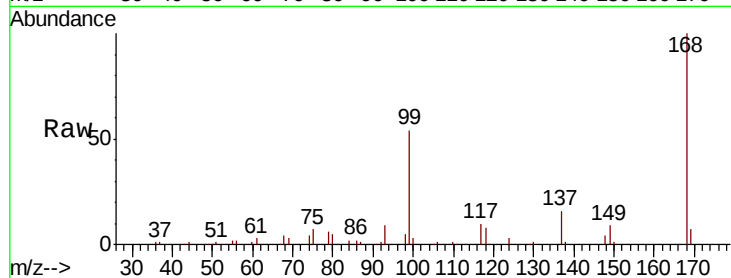




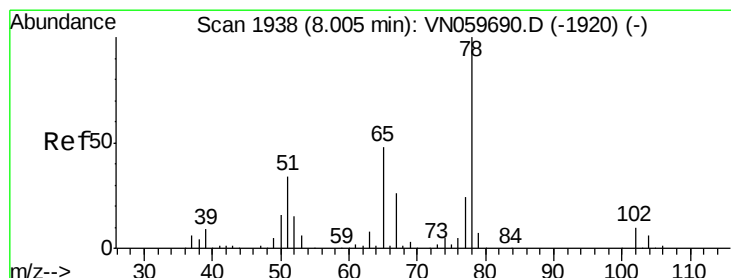
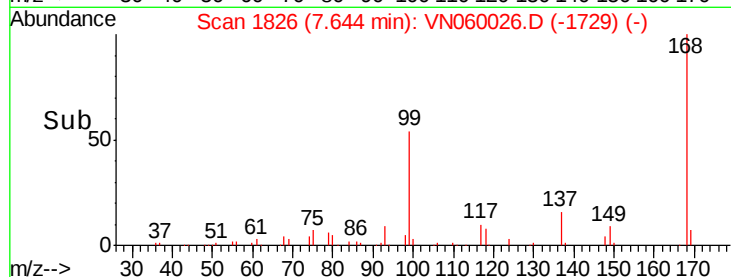
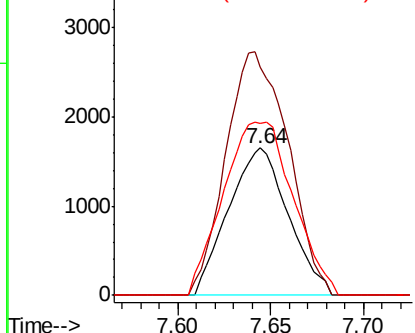
#31
Cyclohexane
Concen: 1.166 ug/l
RT: 7.64 min Scan# 1826
Delta R.T. 0.01 min
Lab File: VN060026.D
Acq: 7 Feb 2020 13:06

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 56 Resp: 3699
Ion Ratio Lower Upper
56 100
69 154.8 26.5 39.7#
84 116.3 65.3 97.9#

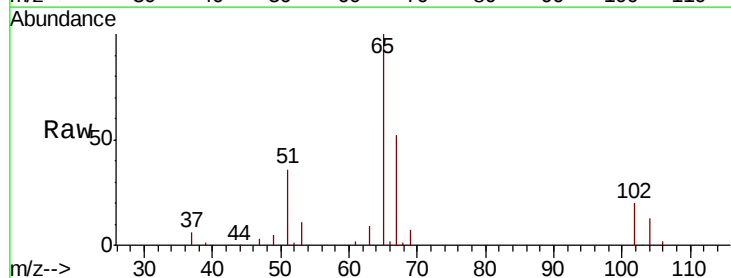


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

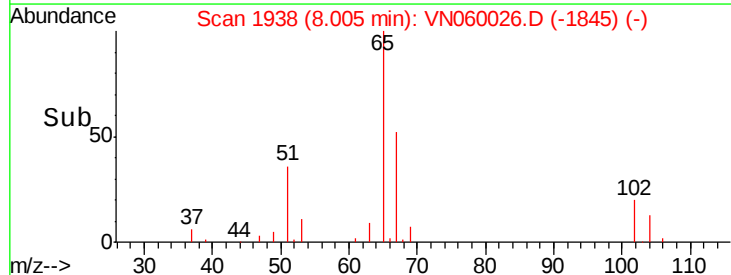
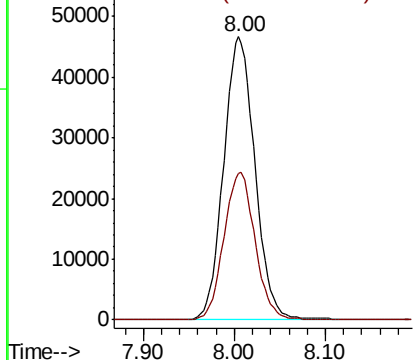


#33
1,2-Dichloroethane-d4
Concen: 51.899 ug/l
RT: 8.00 min Scan# 1938
Delta R.T. 0.00 min
Lab File: VN060026.D
Acq: 7 Feb 2020 13:06

Tgt Ion: 65 Resp: 111247
Ion Ratio Lower Upper
65 100
67 51.6 0.0 103.0



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

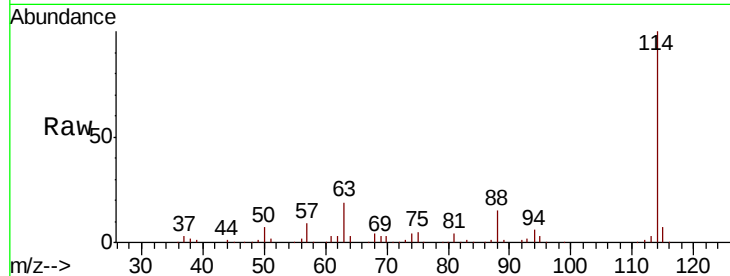




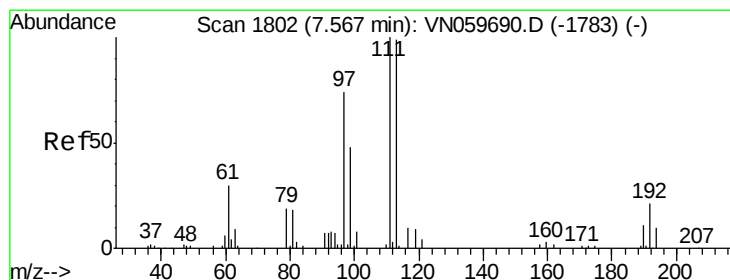
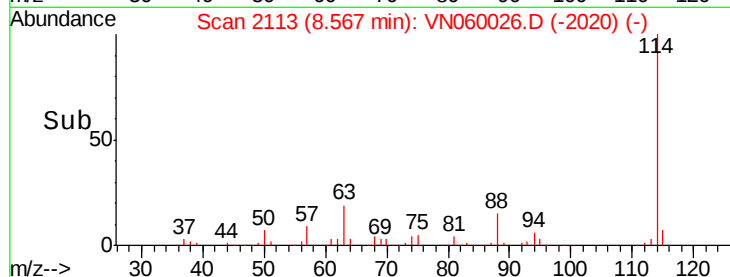
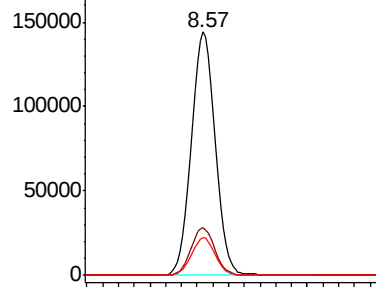
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2113
 Delta R.T. 0.00 min
 Lab File: VN060026.D
 Acq: 7 Feb 2020 13:06

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
114	100		
63	19.4	0.0	43.6
88	15.4	0.0	31.4

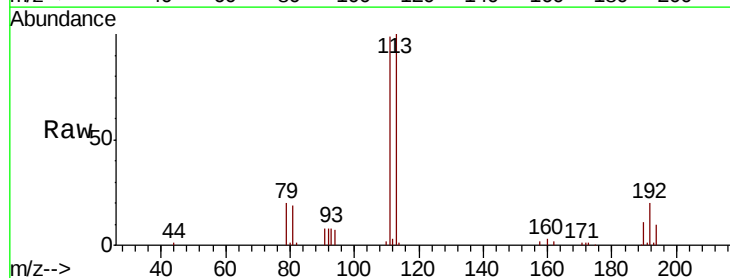


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

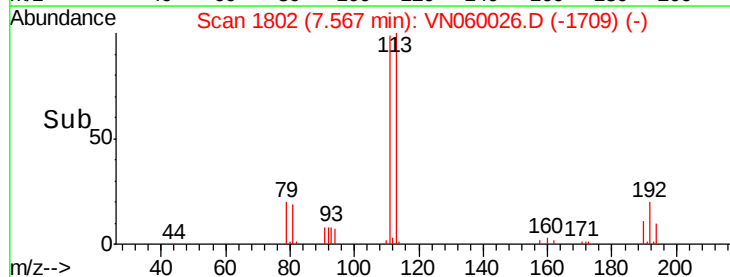
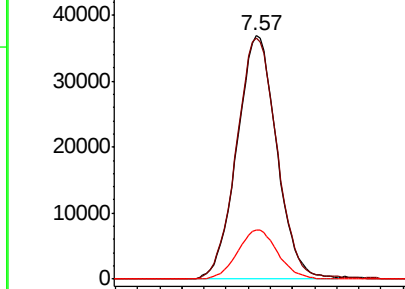


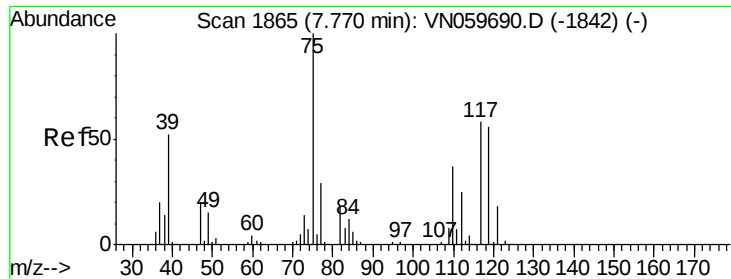
#35
 Dibromofluoromethane
 Concen: 51.226 ug/l
 RT: 7.57 min Scan# 1802
 Delta R.T. 0.00 min
 Lab File: VN060026.D
 Acq: 7 Feb 2020 13:06

Tgt Ion	Ratio	Lower	Upper
113	100		
111	101.1	83.5	125.3
192	20.3	15.4	23.2



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

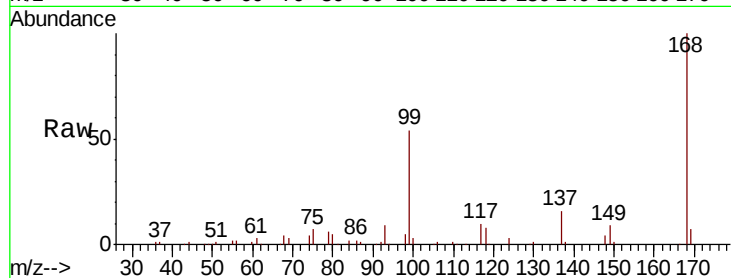




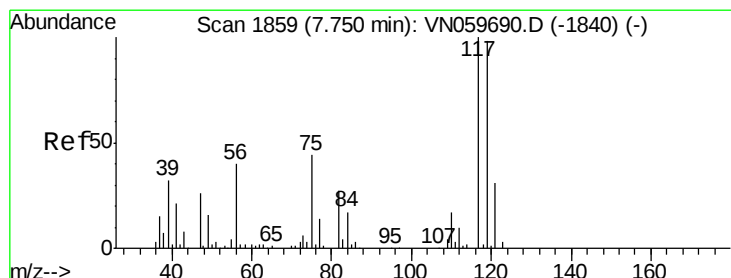
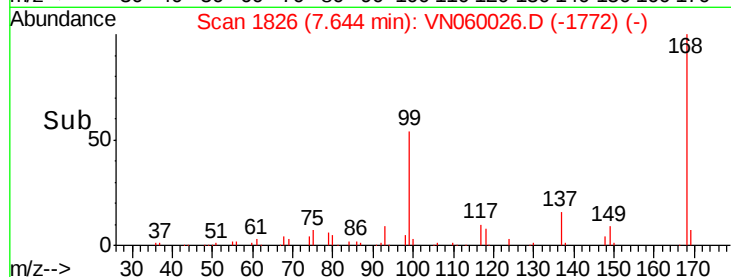
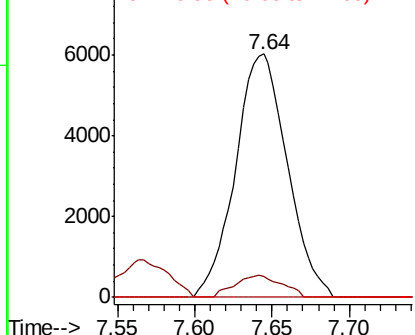
#36
 1,1-Dichloropropene
 Concen: 5.332 ug/l
 RT: 7.64 min Scan# 1826
 Delta R.T. -0.13 min
 Lab File: VN060026.D
 Acq: 7 Feb 2020 13:06

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion: 75 Resp: 14013
 Ion Ratio Lower Upper
 75 100
 110 8.2 16.6 49.7#
 77 0.0 25.1 37.7#

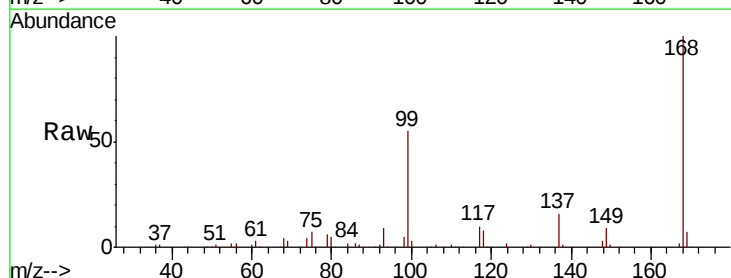


Abundance Ion 74.90 (74.60 to 75.60): VN0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VN0

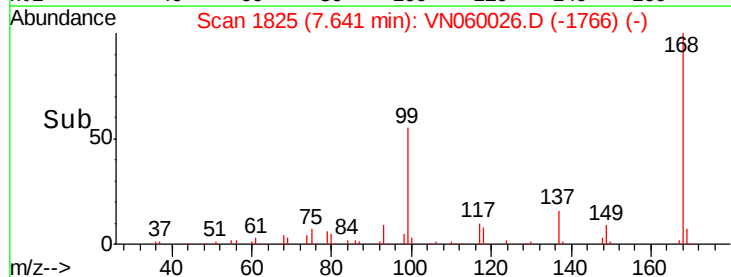
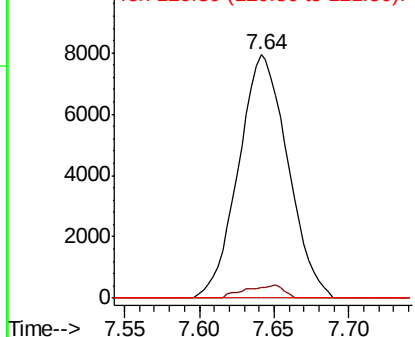


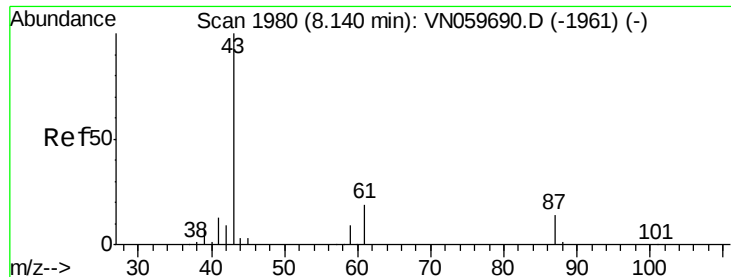
#38
 Carbon Tetrachloride
 Concen: 6.358 ug/l
 RT: 7.64 min Scan# 1825
 Delta R.T. -0.11 min
 Lab File: VN060026.D
 Acq: 7 Feb 2020 13:06

Tgt Ion: 117 Resp: 18177
 Ion Ratio Lower Upper
 117 100
 119 4.1 76.5 114.7#
 121 0.0 25.1 37.7#



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: 10.189 ug/l

RT: 8.14 min Scan# 1980

Delta R.T. 0.00 min

Lab File: VN060026.D

Acq: 7 Feb 2020 13:06

Instrument :

MSVOA_N

ClientSampleId :

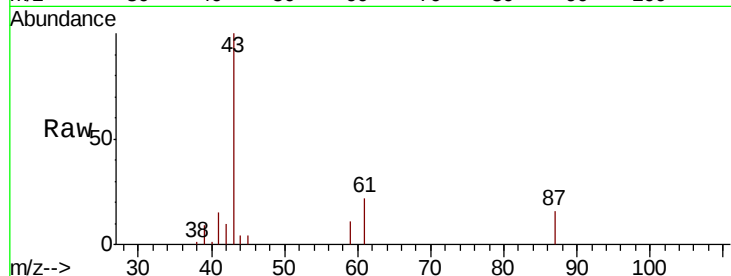
Tot Ion: 43 Resp: 43203

Ion Ratio Lower Upper

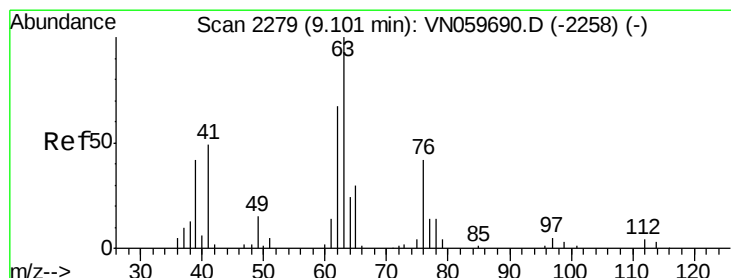
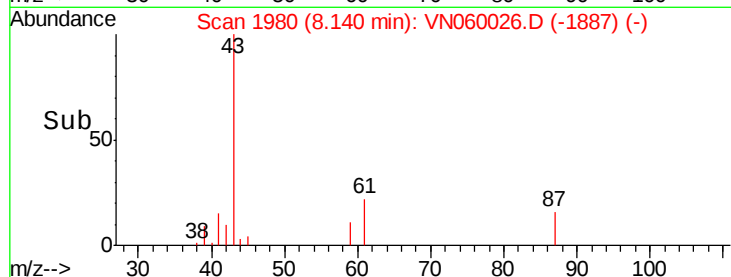
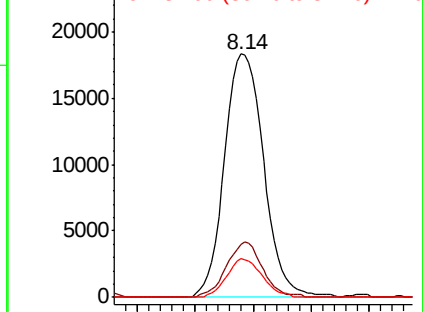
43 100

61 20.7 20.2 30.2

87 14.2 9.5 14.3



Abundance Ion 43.00 (42.70 to 43.70): VN0
Ion 61.00 (60.70 to 61.70): VN0
Ion 87.00 (86.70 to 87.70): VN0



#45

1,2-Dichloropropane

Concen: 0.444 ug/l

RT: 9.25 min Scan# 2324

Delta R.T. 0.14 min

Lab File: VN060026.D

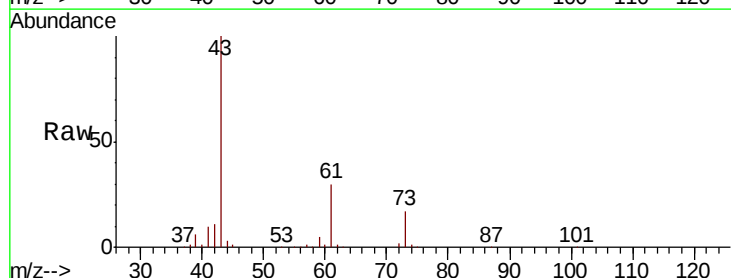
Acq: 7 Feb 2020 13:06

Tgt Ion: 63 Resp: 862

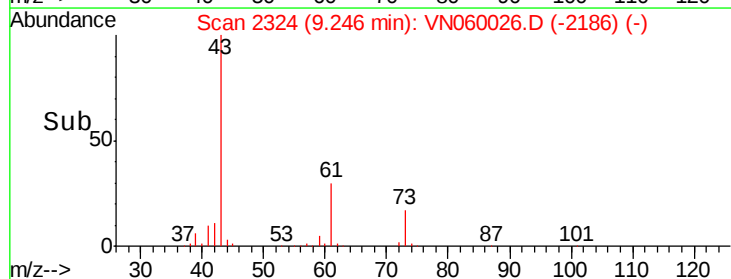
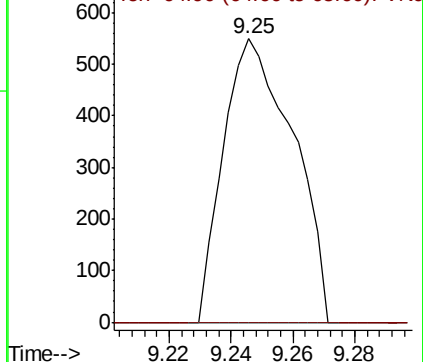
Ion Ratio Lower Upper

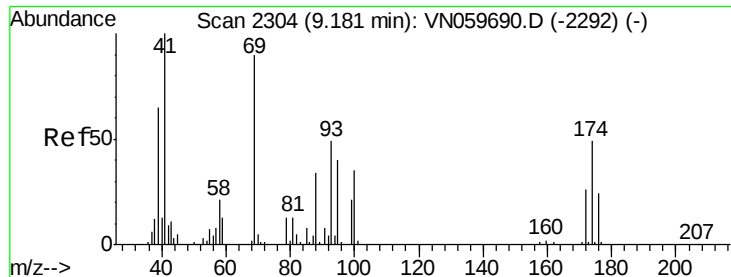
63 100

65 0.0 24.9 37.3#



Abundance Ion 62.90 (62.60 to 63.60): VN0
Ion 64.90 (64.60 to 65.60): VN0

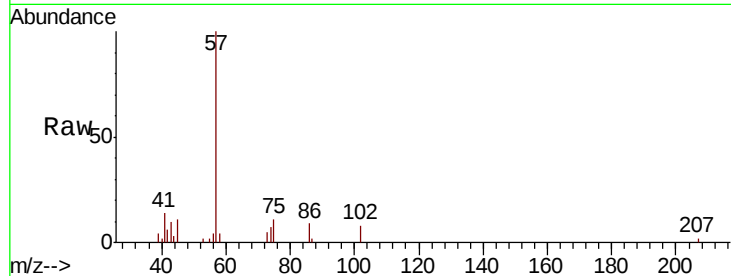




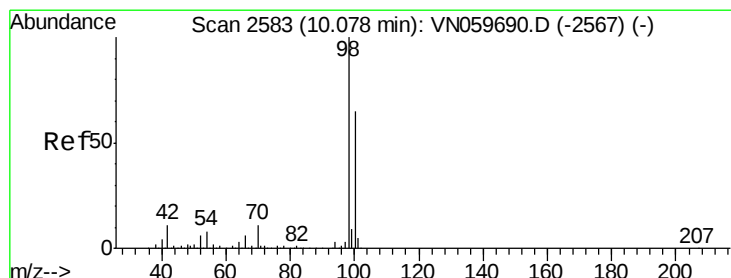
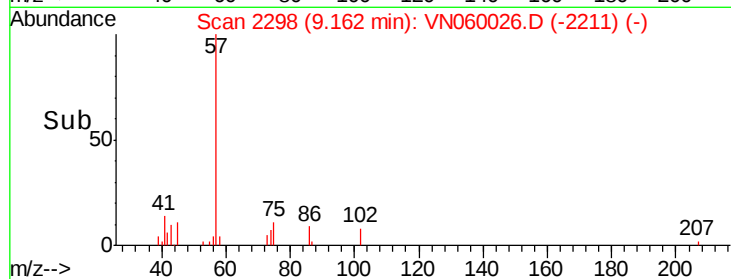
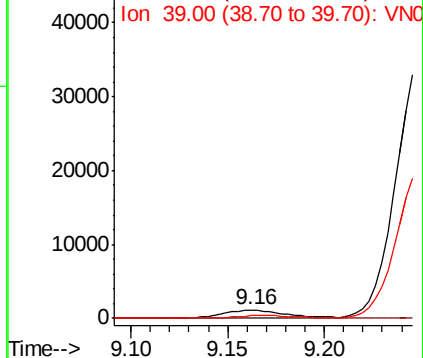
#48
Methvl methacrylate
Concen: 1.306 ug/l
RT: 9.16 min Scan# 2298
Delta R.T. -0.02 min
Lab File: VN060026.D
Acq: 7 Feb 2020 13:06

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 41 Resp: 2477
Ion Ratio Lower Upper
41 100
69 0.0 64.4 96.6#
39 0.0 51.3 76.9#

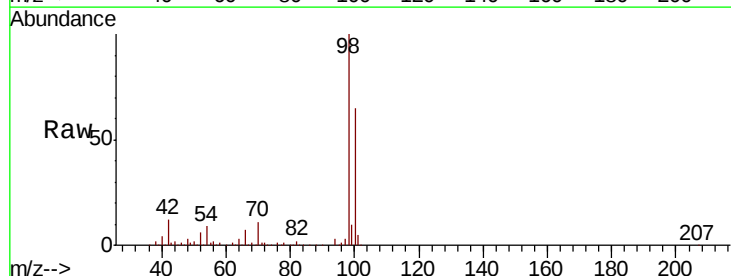


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

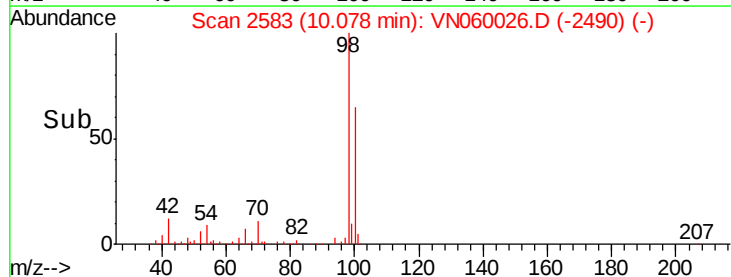
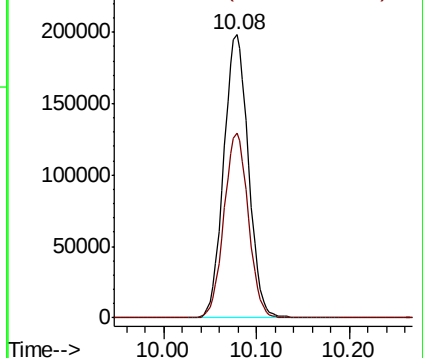


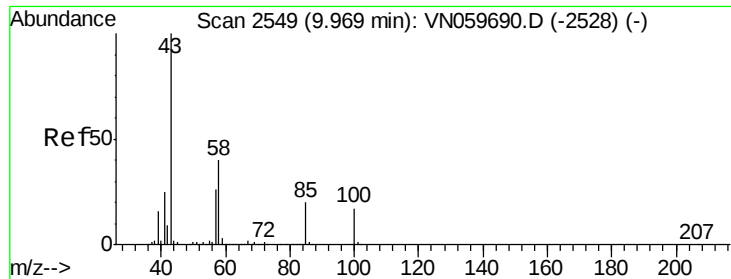
#50
Toluene-d8
Concen: 52.352 ug/l
RT: 10.08 min Scan# 2583
Delta R.T. 0.00 min
Lab File: VN060026.D
Acq: 7 Feb 2020 13:06

Tgt Ion: 98 Resp: 365073
Ion Ratio Lower Upper
98 100
100 64.5 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VN0
Ion 100.00 (99.70 to 100.70): VN0





#51

4-Methyl-2-Pentanone

Concen: 1.050 ug/l

RT: 9.97 min Scan# 2550

Delta R.T. 0.00 min

Lab File: VN060026.D

Acq: 7 Feb 2020 13:06

Instrument :

MSVOA_N

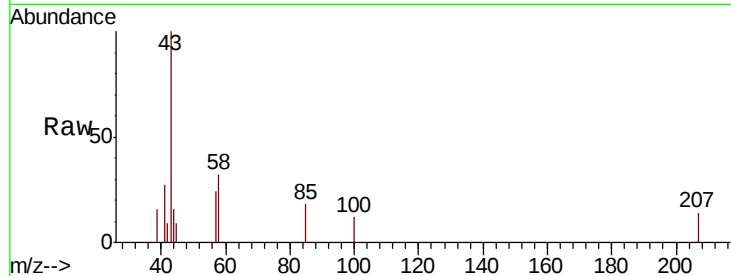
ClientSampled :

Tot Ion: 43 Resp: 2573

Ion Ratio Lower Upper

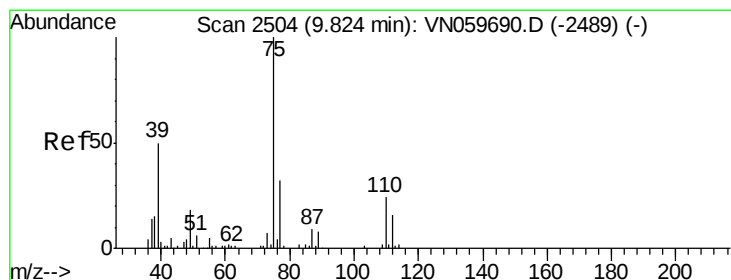
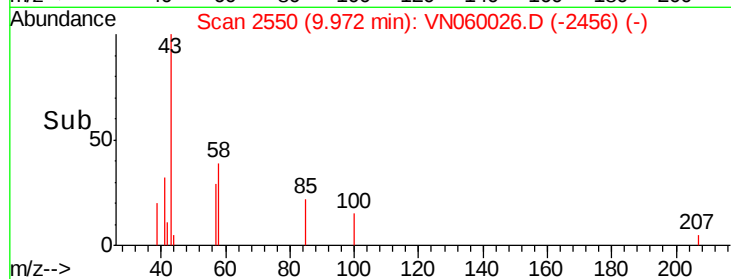
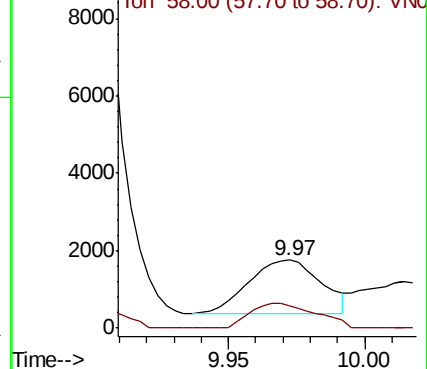
43 100

58 41.7 29.8 44.8



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#54

cis-1,3-Dichloropropene

Concen: 6.123 ug/l

RT: 9.89 min Scan# 2525

Delta R.T. 0.07 min

Lab File: VN060026.D

Acq: 7 Feb 2020 13:06

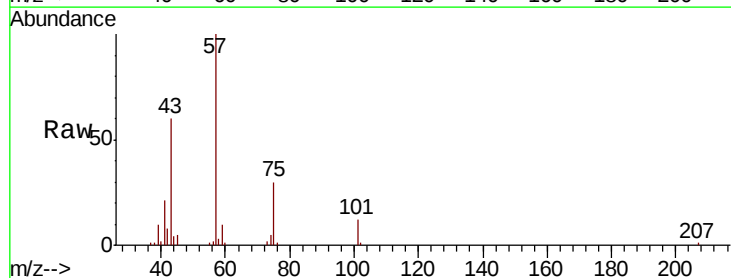
Tgt Ion: 75 Resp: 19836

Ion Ratio Lower Upper

75 100

77 0.0 25.1 37.7#

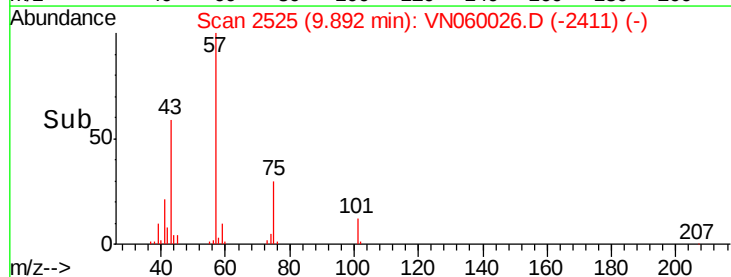
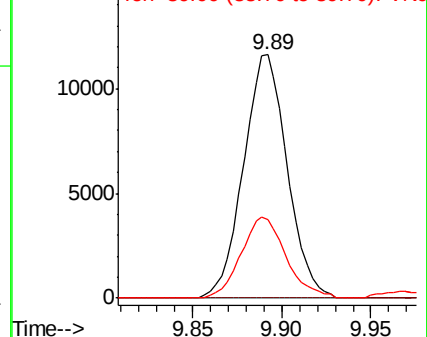
39 32.0 46.1 69.1#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0





#57

1,3-Dichloropropane

Concen: 1.010 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.06 min

Lab File: VN060026.D

Acq: 7 Feb 2020 13:06

Instrument :

MSVOA_N

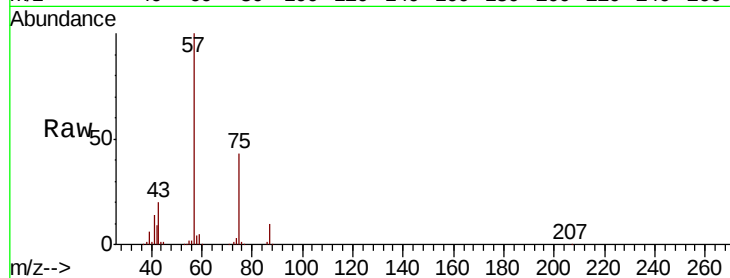
ClientSampleId :

Tot Ion: 76 Resp: 3145

Ion Ratio Lower Upper

76 100

78 0.0 25.8 38.8#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

10.75

2000

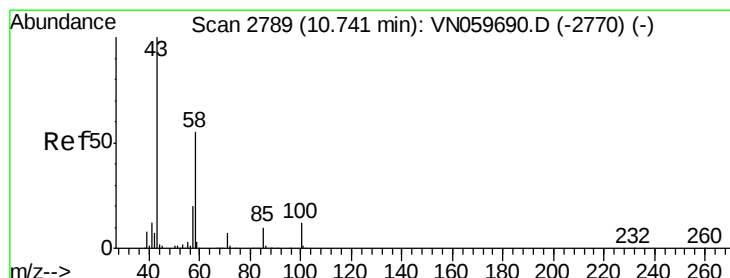
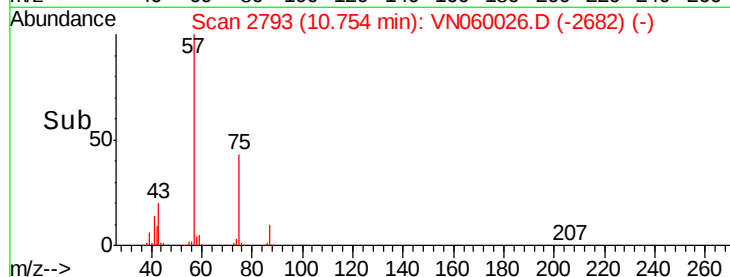
1500

1000

500

0

Time--> 10.70 10.75 10.80



#59

2-Hexanone

Concen: 23.898 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.01 min

Lab File: VN060026.D

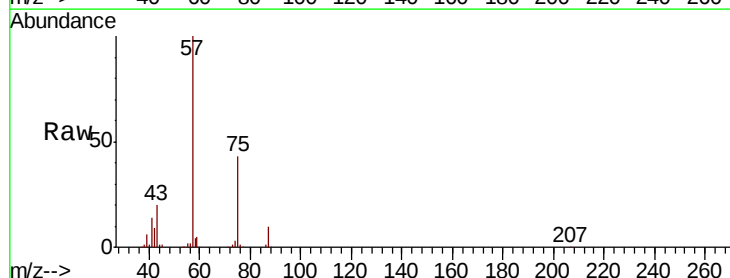
Acq: 7 Feb 2020 13:06

Tgt Ion: 43 Resp: 43152

Ion Ratio Lower Upper

43 100

58 19.5 25.8 77.3#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

10.75

30000

25000

20000

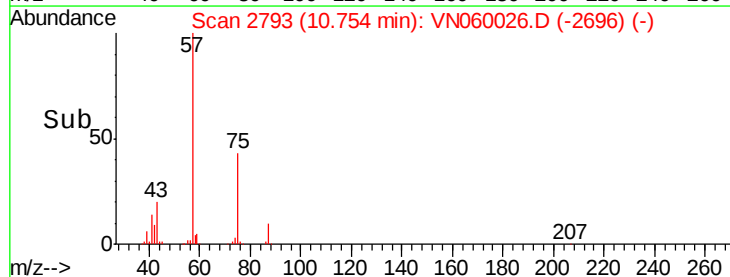
15000

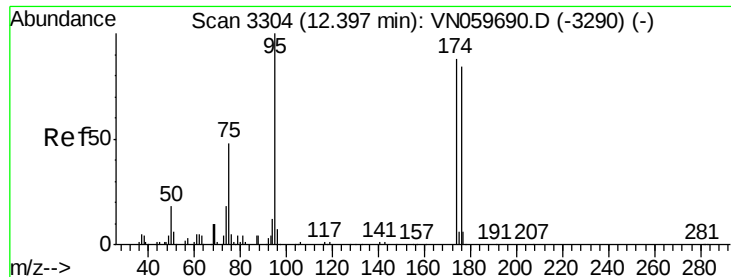
10000

5000

0

Time--> 10.70 10.75 10.80





#62

4-Bromofluorobenzene

Concen: 52.688 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.00 min

Lab File: VN060026.D

Acq: 7 Feb 2020 13:06

Instrument :

MSVOA_N

ClientSampleId :

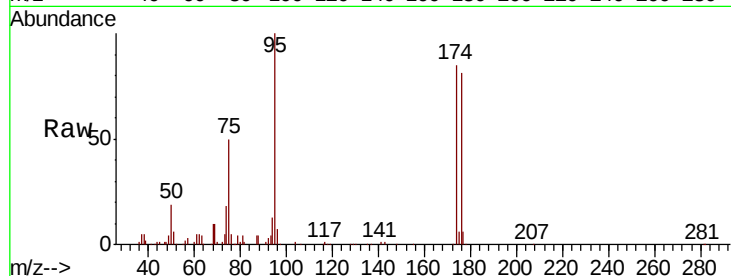
Tot Ion: 95 Resp: 132455

Ion Ratio Lower Upper

95 100

174 86.0 0.0 151.4

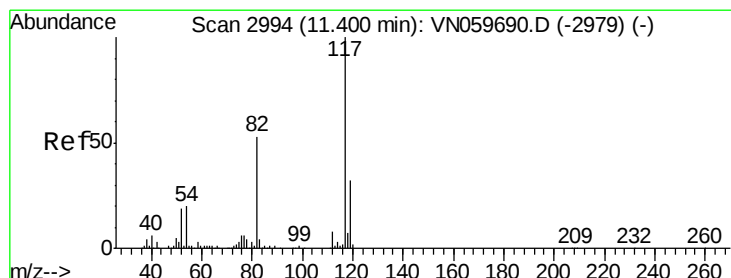
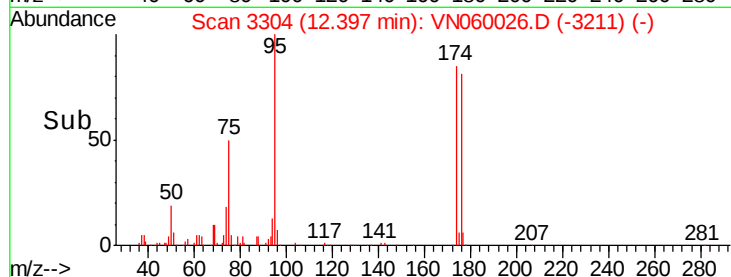
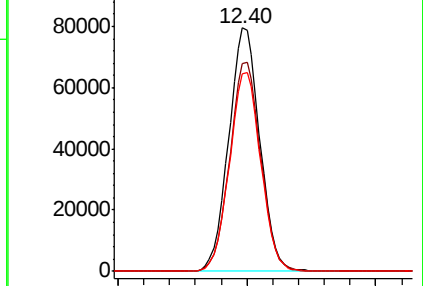
176 82.6 0.0 146.0



Abundance Ion 94.90 (94.60 to 95.60): VN060026.D (-3211) (-)

Ion 173.80 (173.50 to 174.50): VN060026.D (-3211) (-)

Ion 175.80 (175.50 to 176.50): VN060026.D (-3211) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.40 min Scan# 2994

Delta R.T. 0.00 min

Lab File: VN060026.D

Acq: 7 Feb 2020 13:06

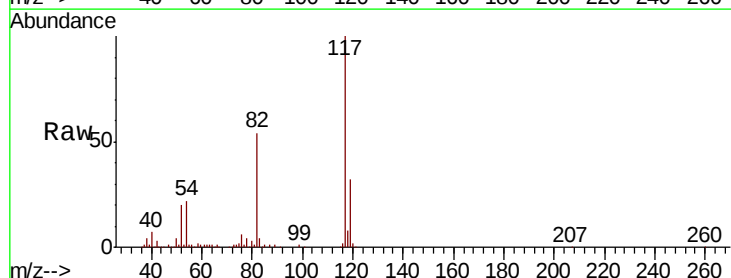
Tgt Ion: 117 Resp: 284155

Ion Ratio Lower Upper

117 100

82 54.2 45.9 68.9

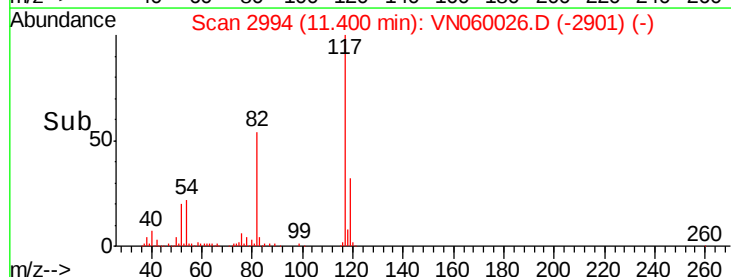
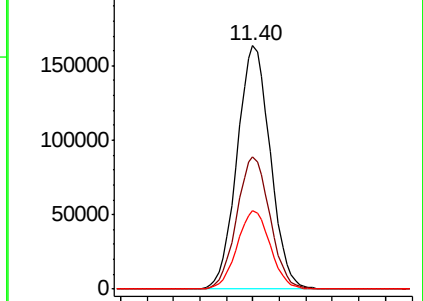
119 32.1 25.5 38.3

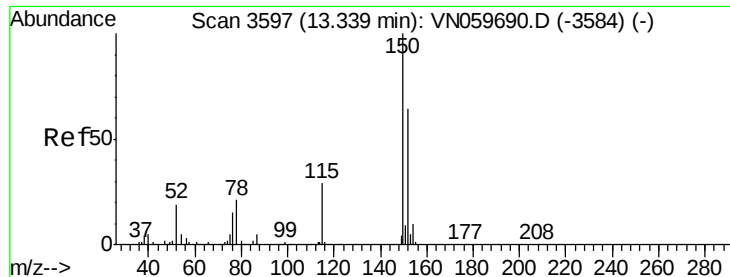


Abundance Ion 116.90 (116.60 to 117.60): VN060026.D (-2901) (-)

Ion 82.00 (81.70 to 82.70): VN060026.D (-2901) (-)

Ion 118.90 (118.60 to 119.60): VN060026.D (-2901) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. 0.00 min

Lab File: VN060026.D

Acq: 7 Feb 2020 13:06

Instrument :

MSVOA_N

ClientSampleId :

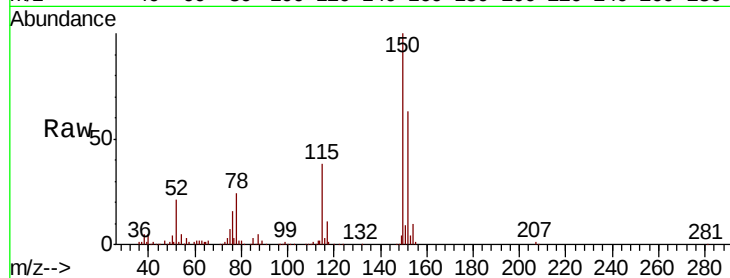
Tot Ion:152 Resp: 130447

Ion Ratio Lower Upper

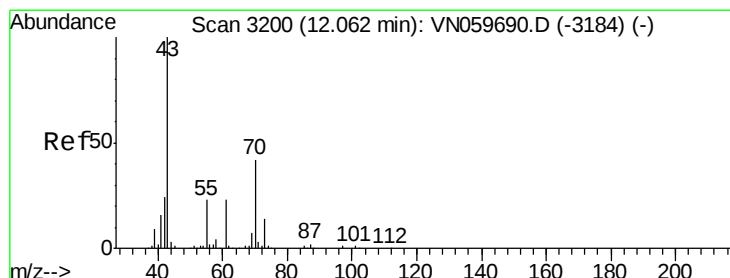
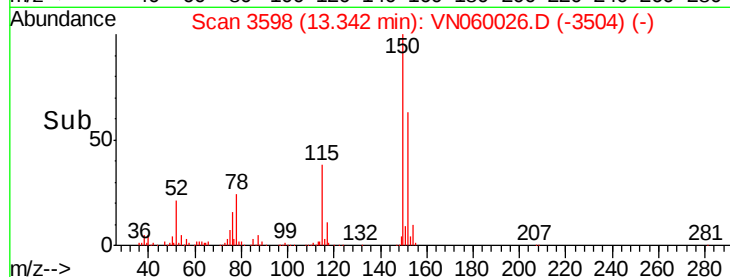
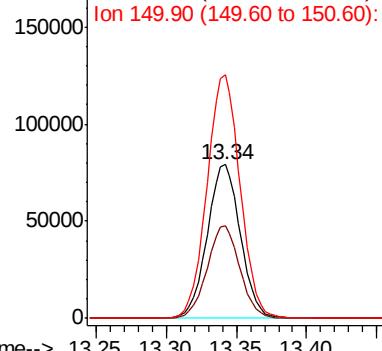
152 100

115 59.3 30.3 90.9

150 157.9 0.0 345.2



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: 0.617 ug/l

RT: 12.03 min Scan# 3190

Delta R.T. -0.03 min

Lab File: VN060026.D

Acq: 7 Feb 2020 13:06

Tgt Ion: 43 Resp: 2290

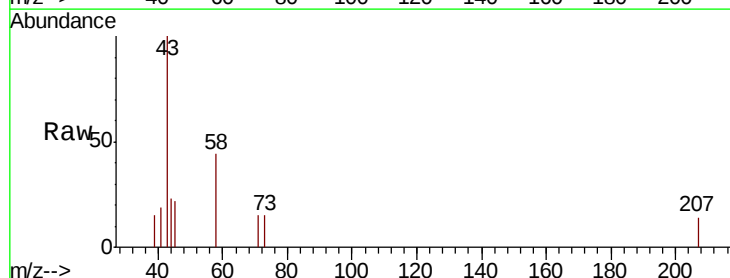
Ion Ratio Lower Upper

43 100

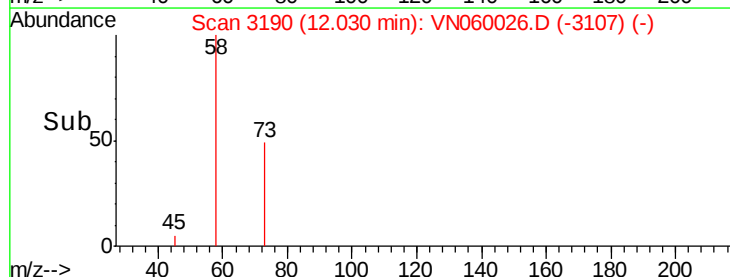
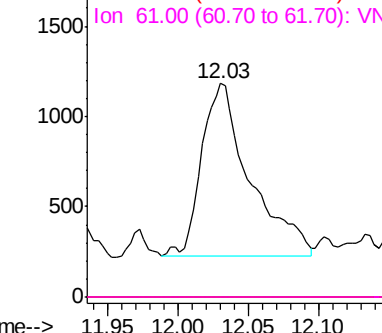
70 0.0 31.3 46.9#

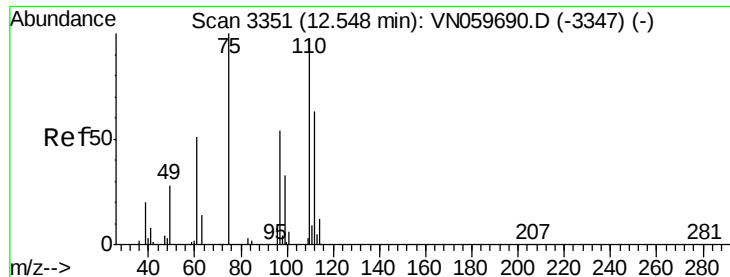
55 0.0 19.8 29.6#

61 0.0 18.3 27.5#



Abundance Ion 43.00 (42.70 to 43.70): V
Ion 70.00 (69.70 to 70.70): V
Ion 55.00 (54.70 to 55.70): V
Ion 61.00 (60.70 to 61.70): V





#76

1,2,3-Trichloropropane

Concen: 30.860 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN060026.D

Acq: 7 Feb 2020 13:06

Instrument :

MSVOA_N

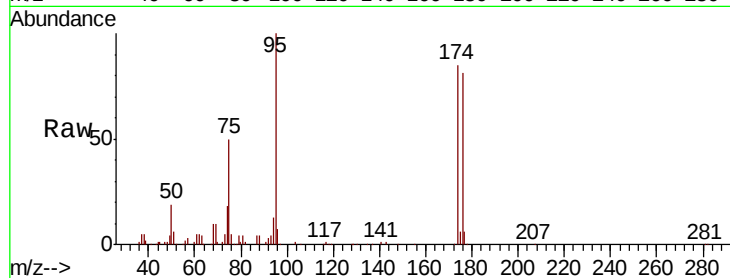
ClientSampleId :

Tot Ion: 75 Resp: 67746

Ion Ratio Lower Upper

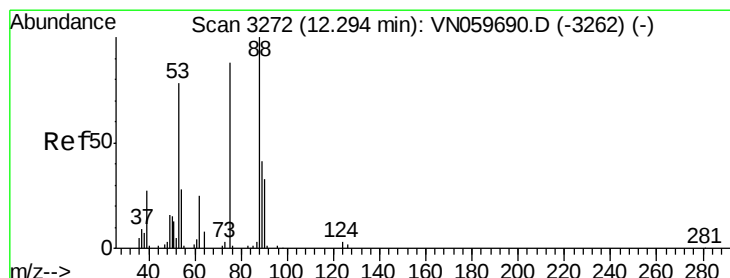
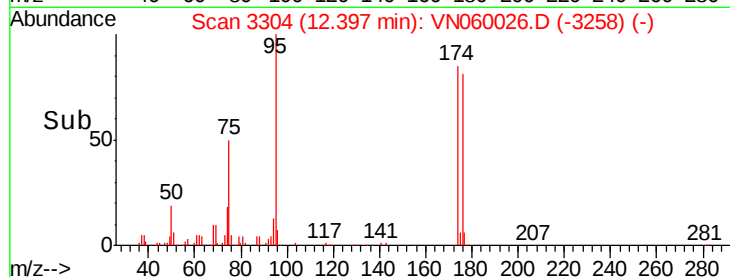
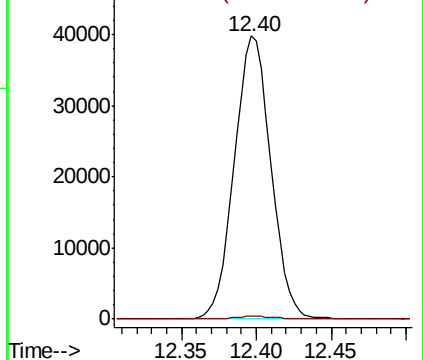
75 100

77 0.9 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: 66.271 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.10 min

Lab File: VN060026.D

Acq: 7 Feb 2020 13:06

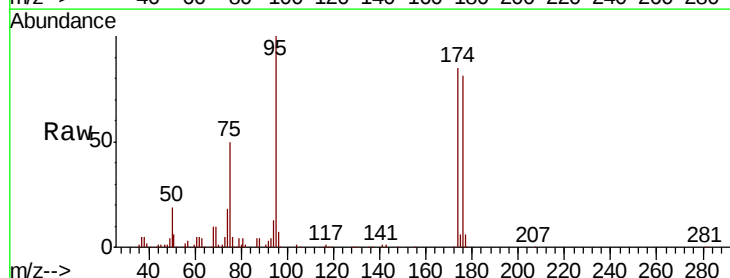
Tgt Ion: 75 Resp: 67746

Ion Ratio Lower Upper

75 100

53 0.0 78.1 117.1#

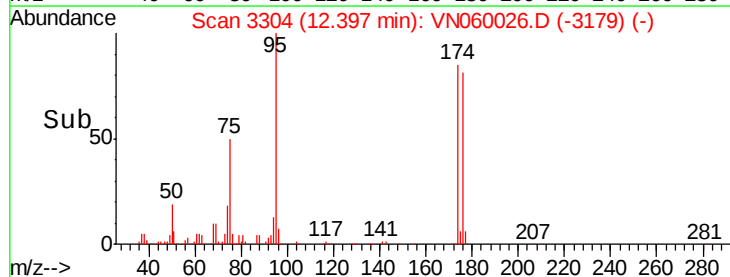
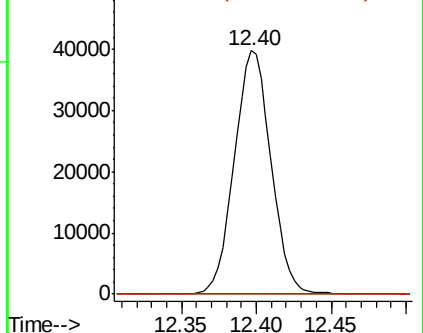
89 0.0 35.4 53.2#

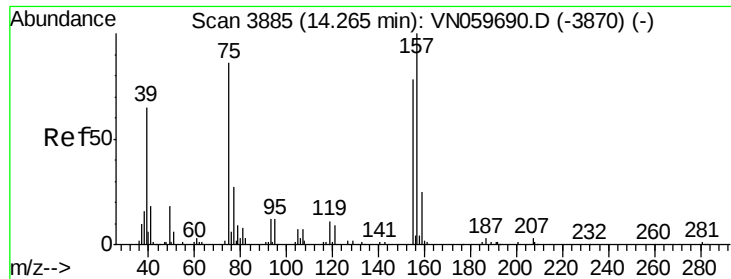


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0

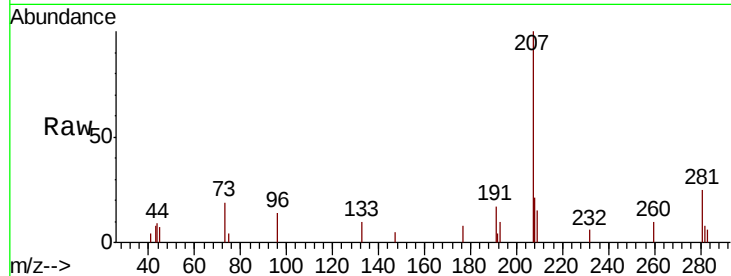




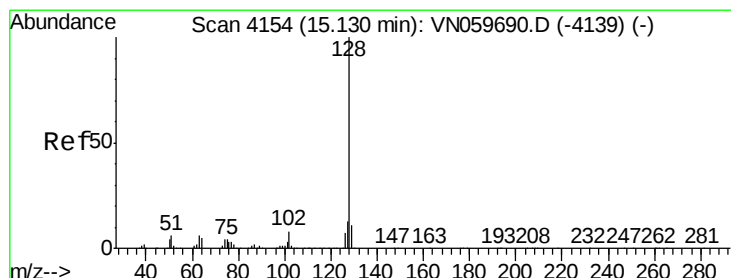
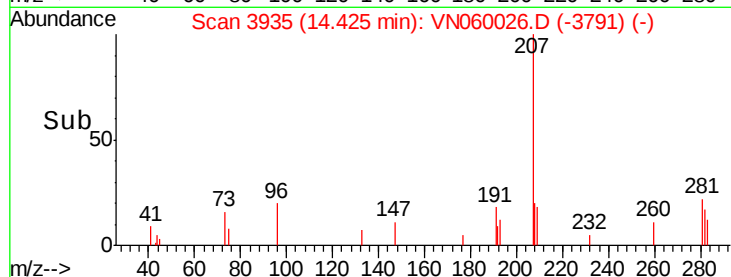
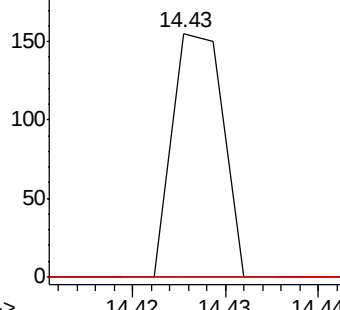
#92
 1,2-Dibromo-3-Chloropropane
 Concen: Below Cal
 RT: 14.43 min Scan# 3935
 Delta R.T. 0.16 min
 Lab File: VN060026.D
 Acq: 7 Feb 2020 13:06

Instrument :
 MSVOA_N
 ClientSampled :

Tot Ion	Ratio	Lower	Upper
75	100		
155	0.0	37.0	110.9#
157	0.0	48.4	145.2#

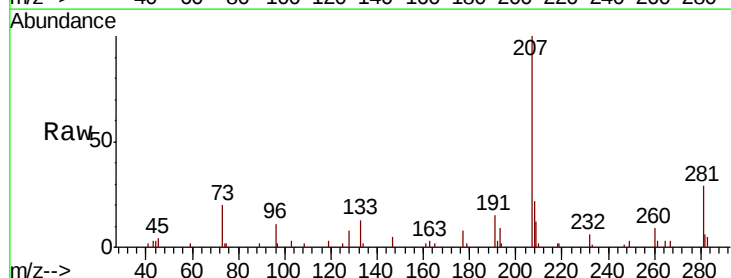


Abundance Ion 74.90 (74.60 to 75.60): VN0
 Ion 154.80 (154.50 to 155.50): V
 Ion 156.80 (156.50 to 157.50): V



#95
 Naphthalene
 Concen: 0.208 ug/l
 RT: 15.13 min Scan# 4155
 Delta R.T. 0.00 min
 Lab File: VN060026.D
 Acq: 7 Feb 2020 13:06

Tgt Ion	Ratio	Lower	Upper
128	100		
127	0.0	10.4	15.6#
129	0.0	8.6	12.8#



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

