

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN021120\
 Data File : VN060059.D
 Acq On : 11 Feb 2020 12:48
 Operator : JC/MD
 Sample : L1372-05
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Feb 12 04:22:38 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	192343	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	304170	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	275691	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	116587	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	111172	52.05	ug/l	0.00
Spiked Amount			Recovery	=	104.10%	
35) Dibromofluoromethane	7.57	113	92908	51.22	ug/l	0.00
Spiked Amount			Recovery	=	102.44%	
50) Toluene-d8	10.08	98	363135	51.67	ug/l	0.00
Spiked Amount			Recovery	=	103.34%	
62) 4-Bromofluorobenzene	12.40	95	124319	49.07	ug/l	0.00
Spiked Amount			Recovery	=	98.14%	

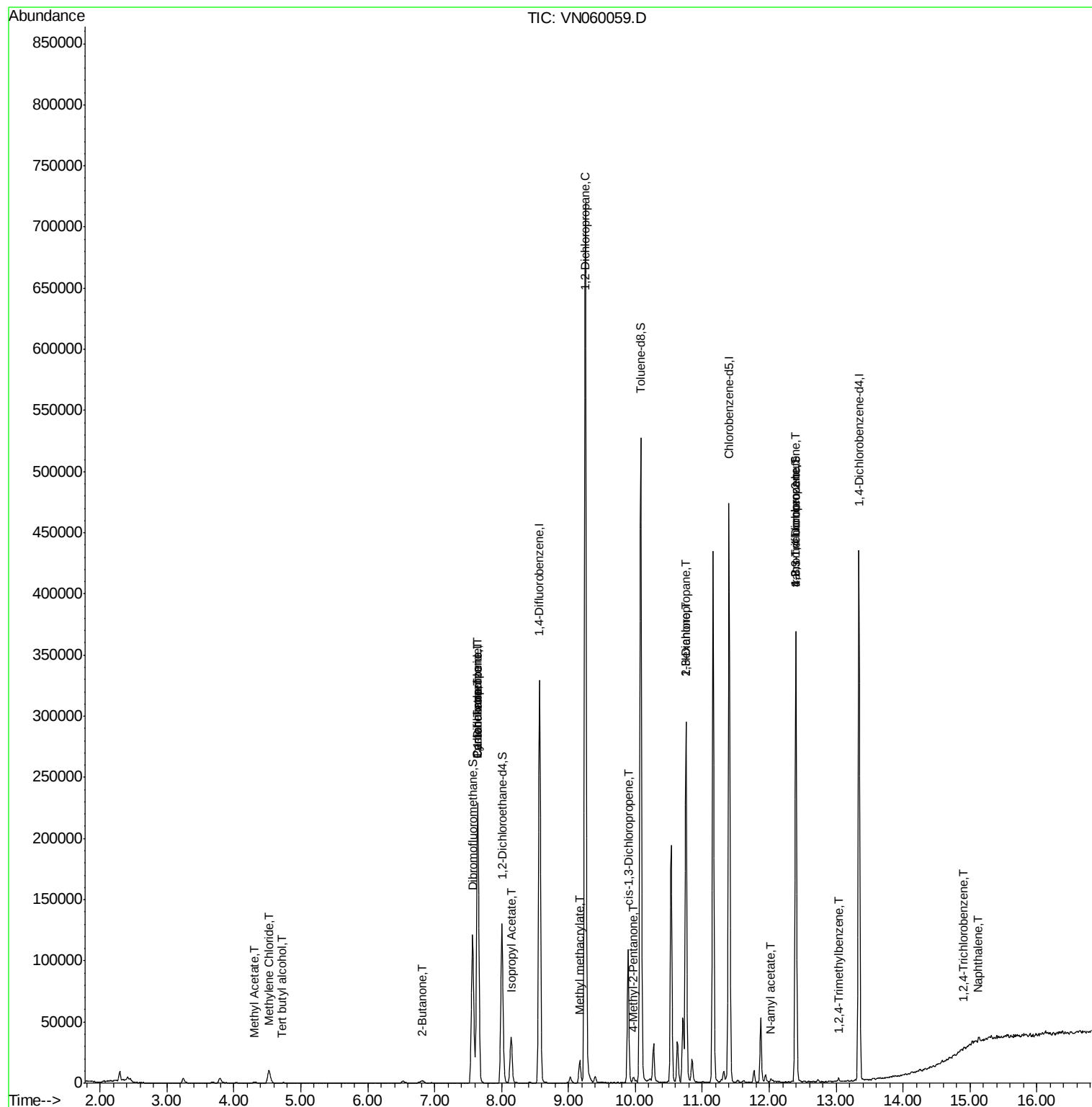
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.72	59	260	0.723	ug/l #	72
16) Acetone	3.80	43	7027	Below Cal		98
18) Methyl Acetate	4.31	43	1196	0.479	ug/l #	54
20) Methylene Chloride	4.53	84	8378	3.122	ug/l #	83
25) 2-Butanone	6.81	43	3692	3.052	ug/l #	85
31) Cyclohexane	7.64	56	3926	1.242	ug/l #	9
36) 1,1-Dichloropropene	7.64	75	13621	5.142	ug/l #	51
38) Carbon Tetrachloride	7.64	117	18252	6.334	ug/l #	16
43) Isopropyl Acetate	8.14	43	45116	10.558	ug/l #	91
45) 1,2-Dichloropropane	9.25	63	926	0.474	ug/l #	44
48) Methyl methacrylate	9.16	41	2933	1.534	ug/l #	13
51) 4-Methyl-2-Pentanone	9.97	43	3304	1.338	ug/l #	65
54) cis-1,3-Dichloropropene	9.89	75	20272	6.210	ug/l #	59
57) 1,3-Dichloropropane	10.75	76	3086	0.984	ug/l #	42
59) 2-Hexanone	10.75	43	44383	24.389	ug/l #	58
74) N-amyl acetate	12.03	43	2352	0.709	ug/l #	45
76) 1,2,3-Trichloropropane	12.40	75	63936	32.586	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	63936	69.980	ug/l #	11
84) 1,2,4-Trimethylbenzene	13.04	105	2154	0.303	ug/l	100
92) 1,2-Dibromo-3-Chloropropan	14.29	75	60	Below Cal	#	6
93) 1,2,4-Trichlorobenzene	14.91	180	534	0.239	ug/l #	44
95) Naphthalene	15.13	128	3077	0.484	ug/l #	93

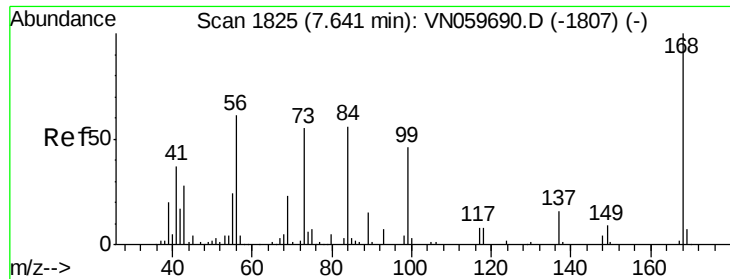
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Sat Jan 18 03:09:32 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. 0.00 min

Lab File: VN060059.D

Acq: 11 Feb 2020 12:48

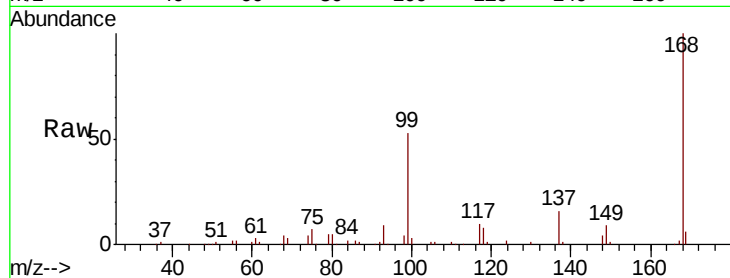
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 192343

Ion Ratio Lower Upper

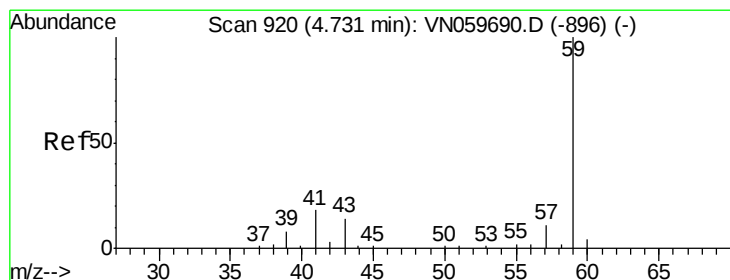
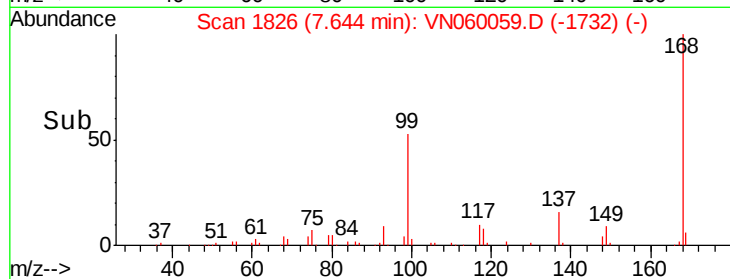
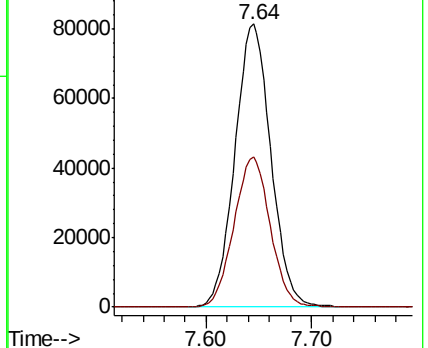
168 100

99 53.1 48.2 72.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0



#11

Tert butyl alcohol

Concen: 0.723 ug/l

RT: 4.72 min Scan# 917

Delta R.T. -0.01 min

Lab File: VN060059.D

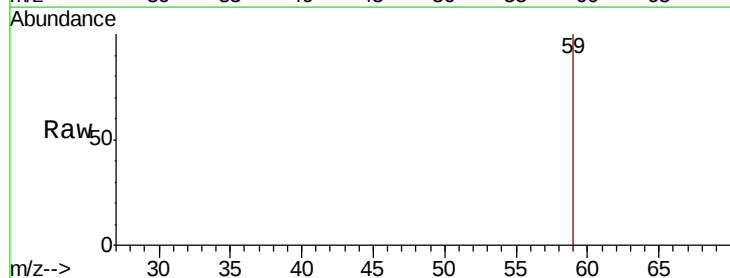
Acq: 11 Feb 2020 12:48

Tgt Ion: 59 Resp: 260

Ion Ratio Lower Upper

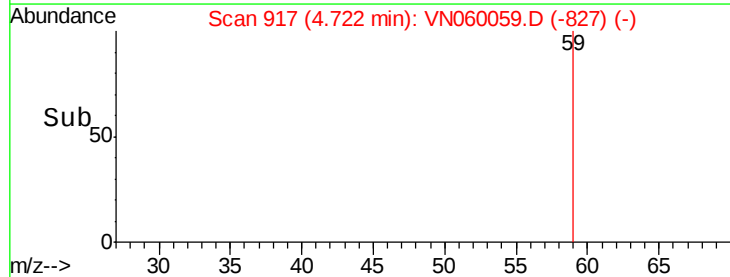
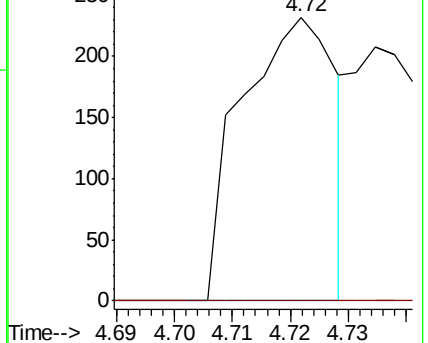
59 100

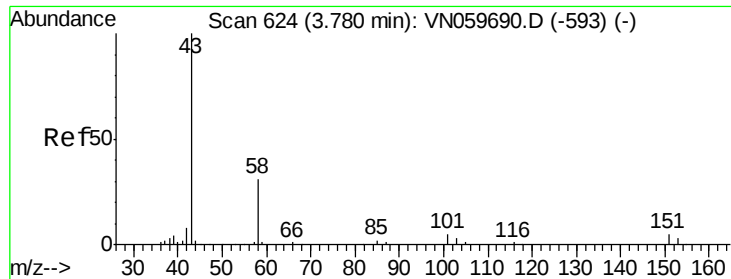
57 0.0 8.6 12.8#



Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 57.00 (56.70 to 57.70): VN0

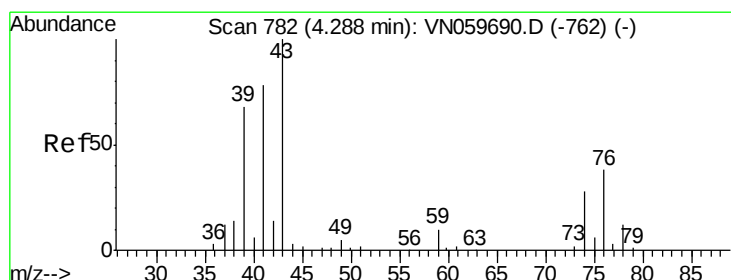
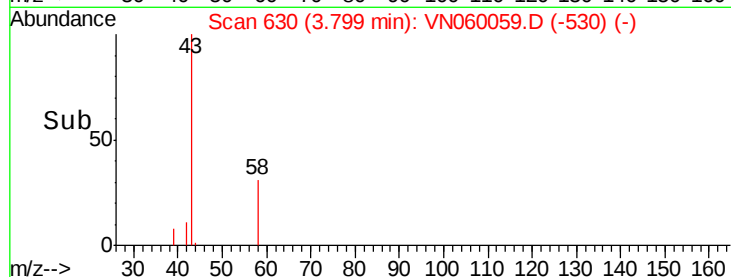
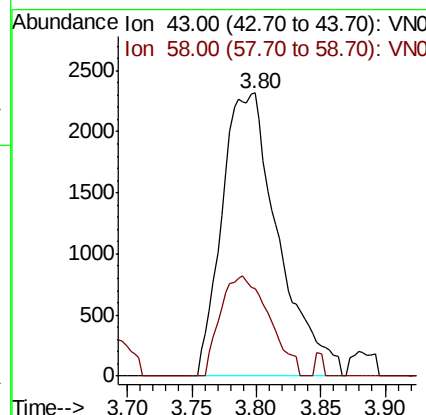
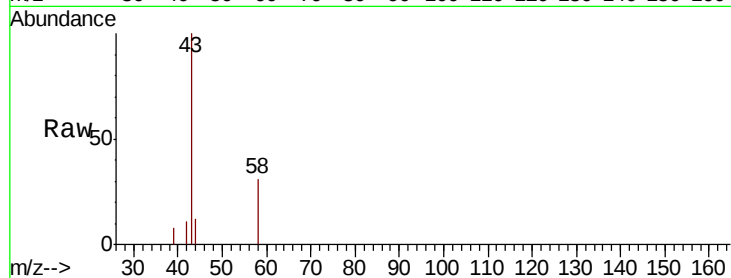




#16
Acetone
Concen: Below Cal
RT: 3.80 min Scan# 630
Delta R.T. 0.02 min
Lab File: VN060059.D
Acq: 11 Feb 2020 12:48

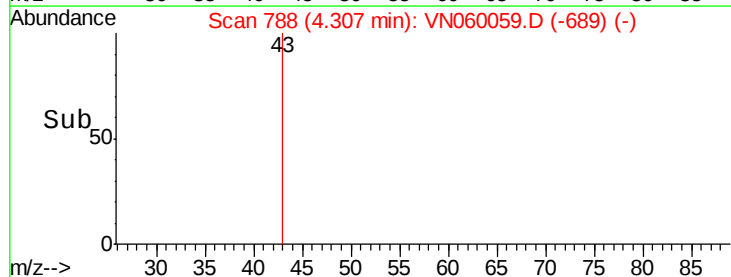
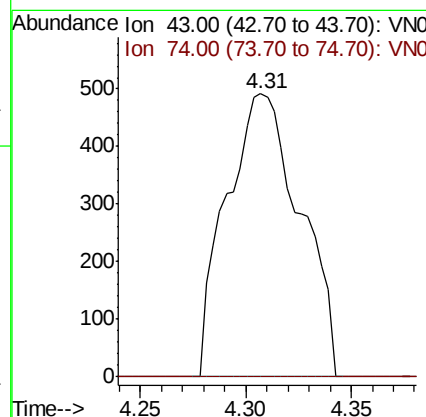
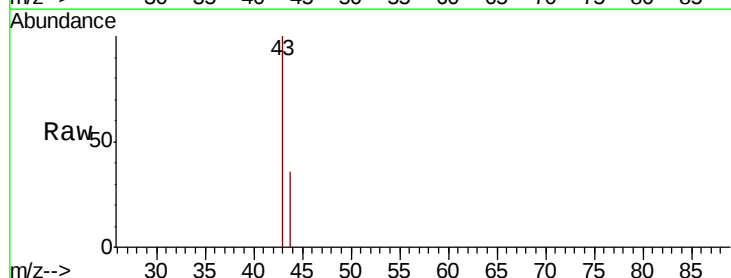
Instrument :
MSVOA_N
ClientSampled :

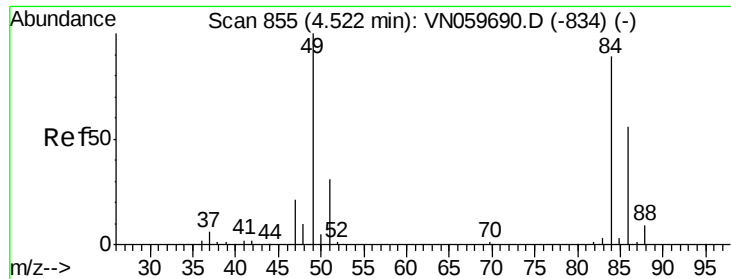
Tot Ion: 43 Resp: 7027
Ion Ratio Lower Upper
43 100
58 30.8 23.6 35.4



#18
Methyl Acetate
Concen: 0.479 ug/l
RT: 4.31 min Scan# 788
Delta R.T. 0.02 min
Lab File: VN060059.D
Acq: 11 Feb 2020 12:48

Tgt Ion: 43 Resp: 1196
Ion Ratio Lower Upper
43 100
74 0.0 17.5 26.3#

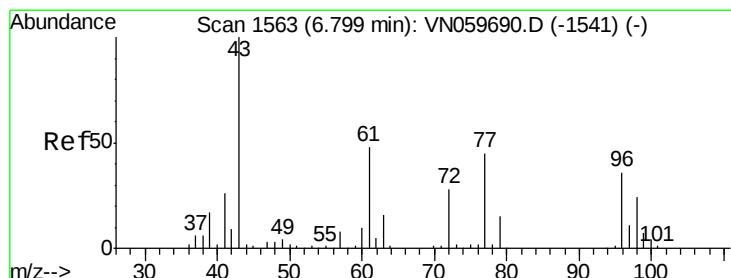
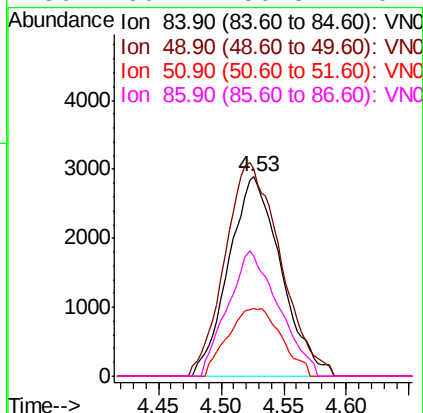
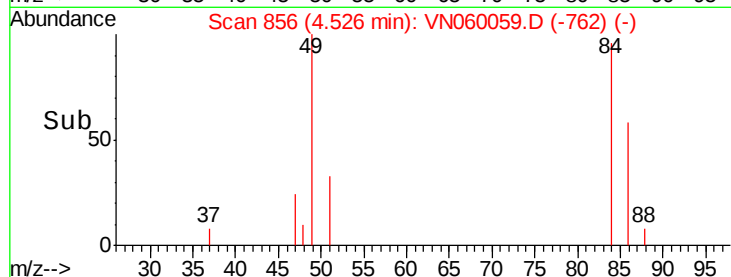
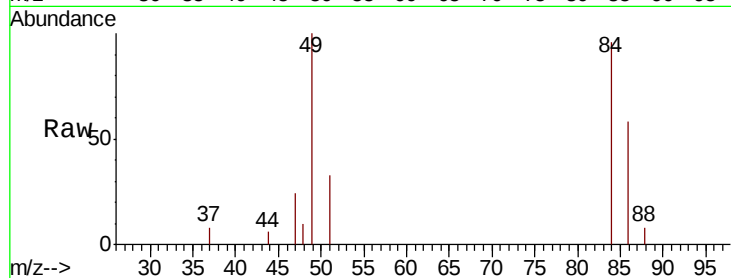




#20
Methvlene Chloride
Concen: 3.122 ug/l
RT: 4.53 min Scan# 856
Delta R.T. 0.00 min
Lab File: VN060059.D
Acq: 11 Feb 2020 12:48

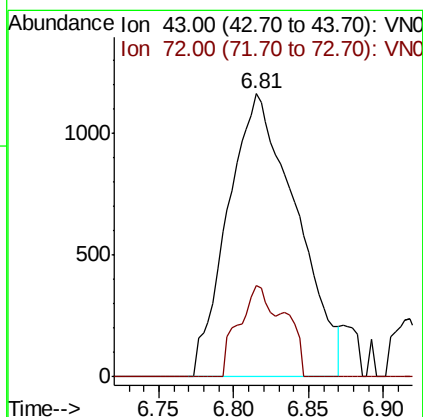
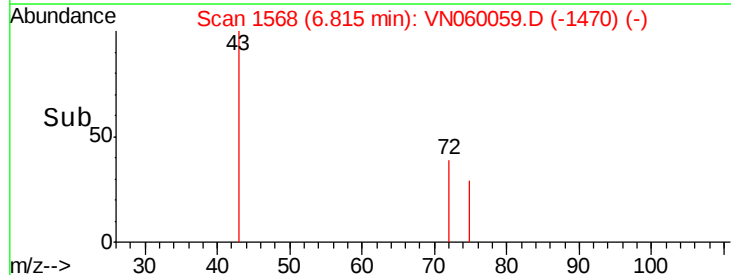
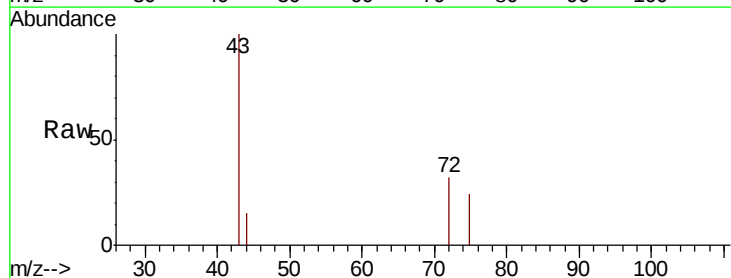
Instrument :
MSVOA_N
ClientSampled :

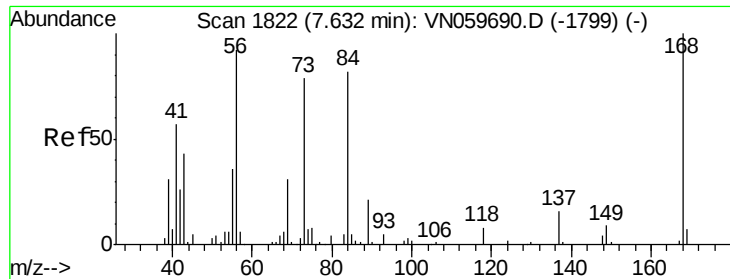
Tot Ion: 84 Resp: 8378
Ion Ratio Lower Upper
84 100
49 104.1 106.6 160.0#
51 33.8 31.9 47.9
86 60.1 50.8 76.2



#25
2-Butanone
Concen: 3.052 ug/l
RT: 6.81 min Scan# 1568
Delta R.T. 0.02 min
Lab File: VN060059.D
Acq: 11 Feb 2020 12:48

Tgt Ion: 43 Resp: 3692
Ion Ratio Lower Upper
43 100
72 32.4 19.9 29.9#

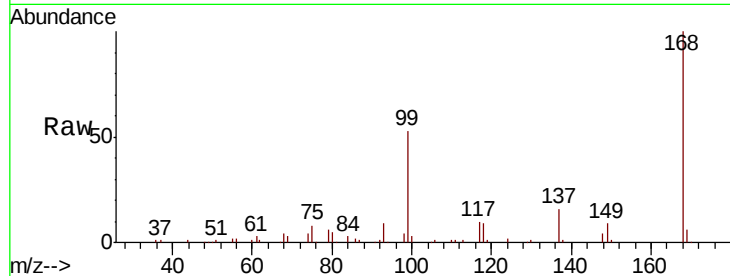




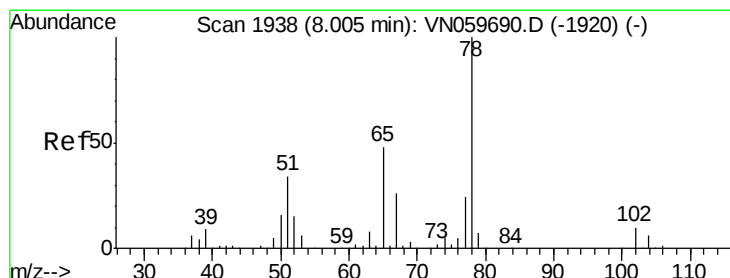
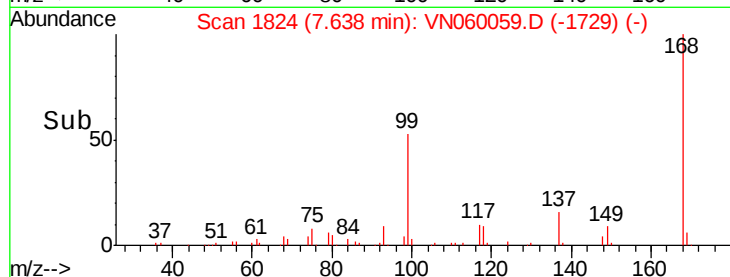
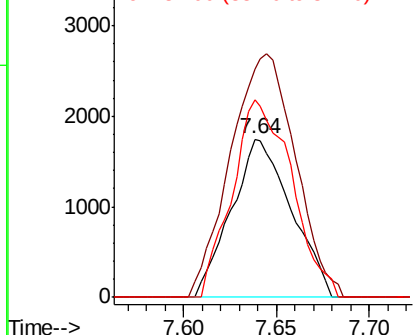
#31
Cyclohexane
Concen: 1.242 ug/l
RT: 7.64 min Scan# 1824
Delta R.T. 0.01 min
Lab File: VN060059.D
Acq: 11 Feb 2020 12:48

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 56 Resp: 3926
Ion Ratio Lower Upper
56 100
69 144.1 26.5 39.7#
84 125.0 65.3 97.9#

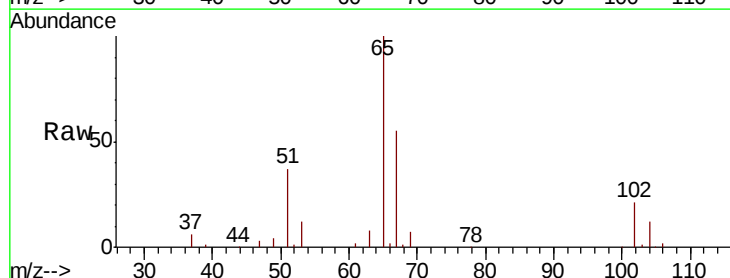


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

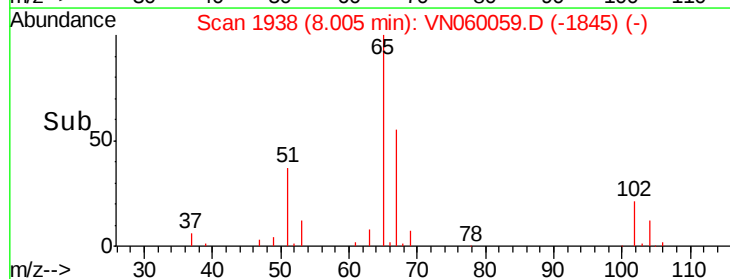
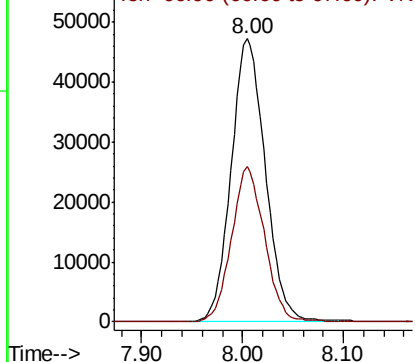


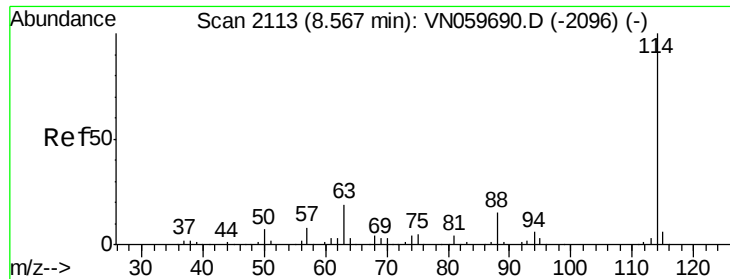
#33
1,2-Dichloroethane-d4
Concen: 52.046 ug/l
RT: 8.00 min Scan# 1938
Delta R.T. 0.00 min
Lab File: VN060059.D
Acq: 11 Feb 2020 12:48

Tgt Ion: 65 Resp: 111172
Ion Ratio Lower Upper
65 100
67 53.0 0.0 103.0



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

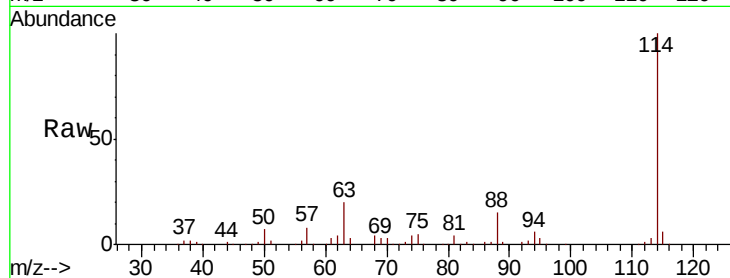




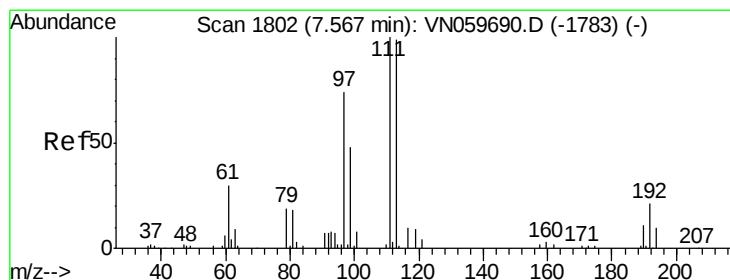
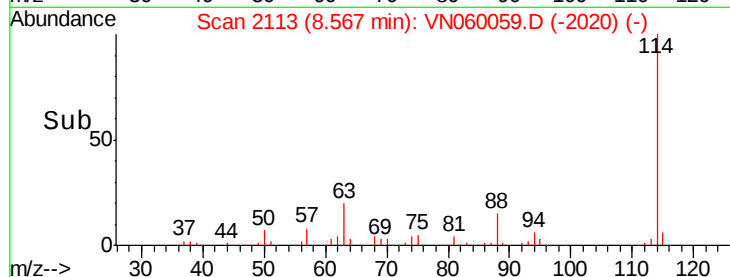
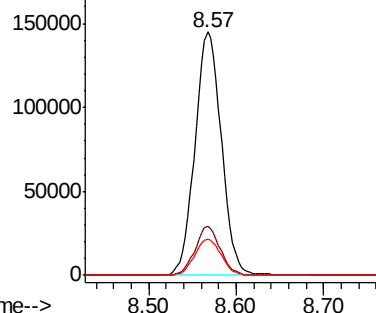
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2113
 Delta R.T. 0.00 min
 Lab File: VN060059.D
 Acq: 11 Feb 2020 12:48

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
114	100		
63	20.1	0.0	43.6
88	14.8	0.0	31.4

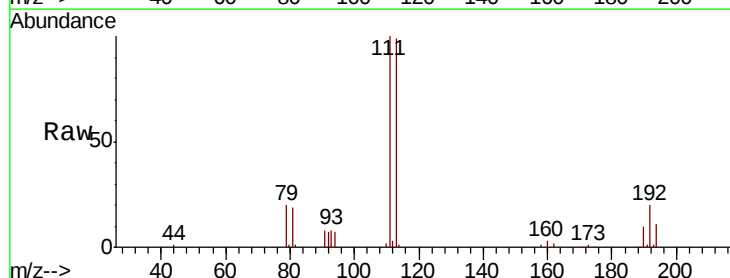


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

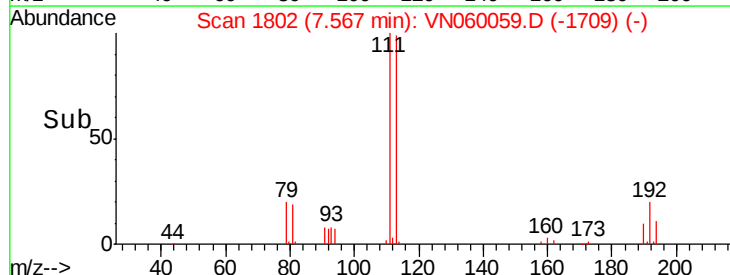
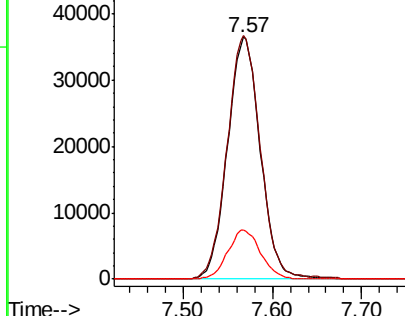


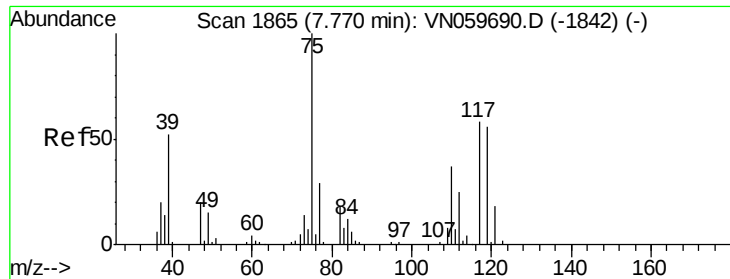
#35
 Dibromofluoromethane
 Concen: 51.220 ug/l
 RT: 7.57 min Scan# 1802
 Delta R.T. 0.00 min
 Lab File: VN060059.D
 Acq: 11 Feb 2020 12:48

Tgt Ion	Ratio	Lower	Upper
113	100		
111	101.7	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: 5.142 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.13 min

Lab File: VN060059.D

Acq: 11 Feb 2020 12:48

Instrument :
MSVOA_N
ClientSampleId :

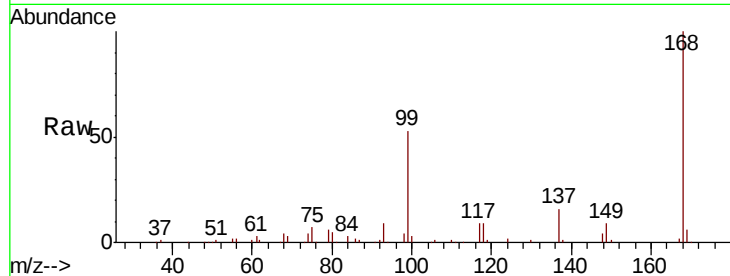
Tot Ion: 75 Resp: 13621

Ion Ratio Lower Upper

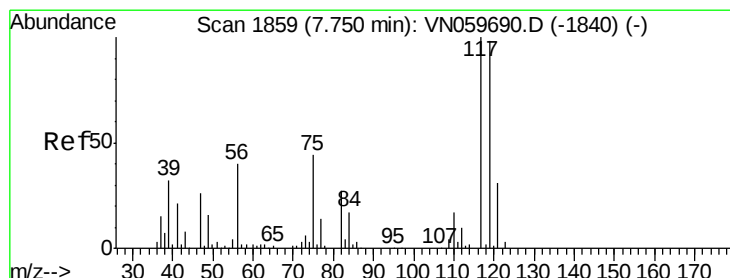
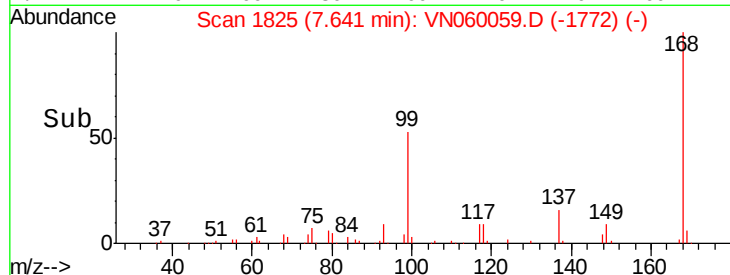
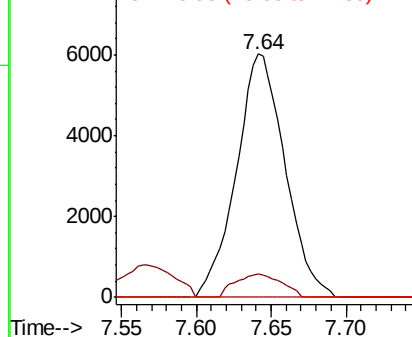
75 100

110 9.1 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: 6.334 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. -0.11 min

Lab File: VN060059.D

Acq: 11 Feb 2020 12:48

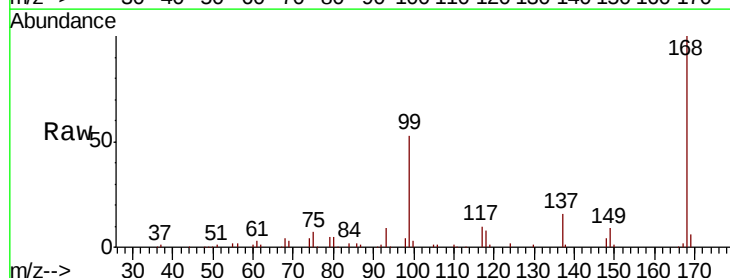
Tgt Ion: 117 Resp: 18252

Ion Ratio Lower Upper

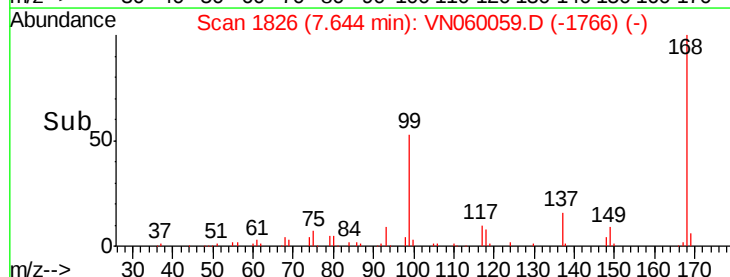
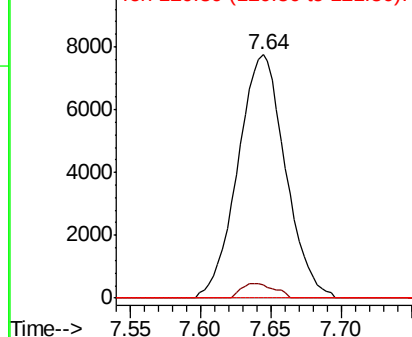
117 100

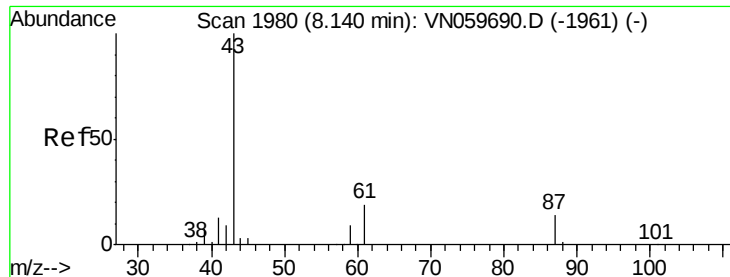
119 5.3 76.5 114.7#

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: 10.558 ug/l

RT: 8.14 min Scan# 1981

Delta R.T. 0.00 min

Lab File: VN060059.D

Acq: 11 Feb 2020 12:48

Instrument :

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ClientSampleId :

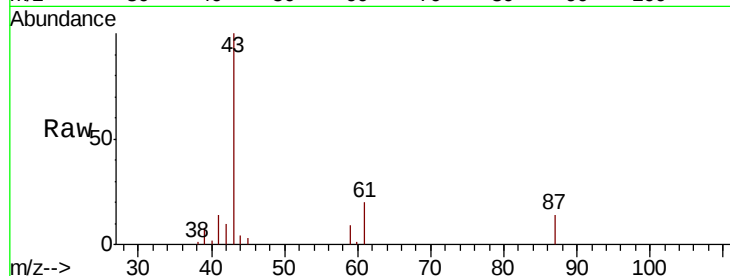
Tot Ion: 43 Resp: 45116

Ion Ratio Lower Upper

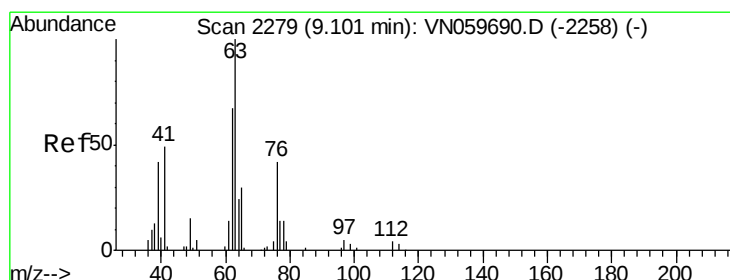
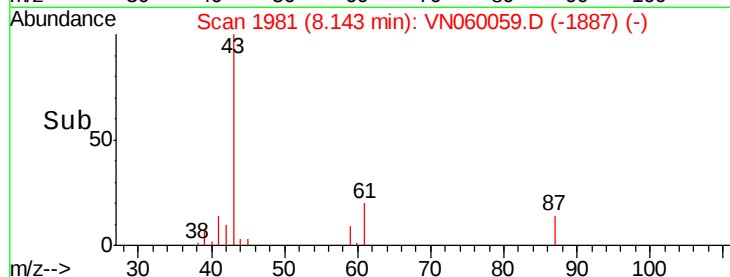
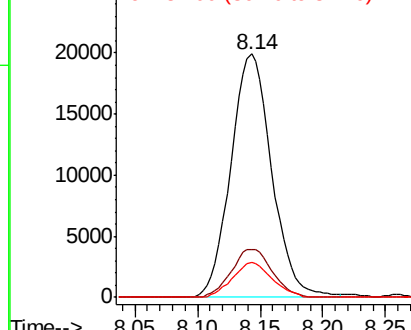
43 100

61 19.7 20.2 30.2#

87 13.7 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: 0.474 ug/l

RT: 9.25 min Scan# 2326

Delta R.T. 0.15 min

Lab File: VN060059.D

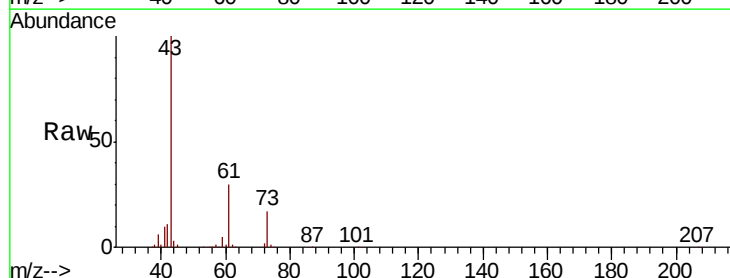
Acq: 11 Feb 2020 12:48

Tgt Ion: 63 Resp: 926

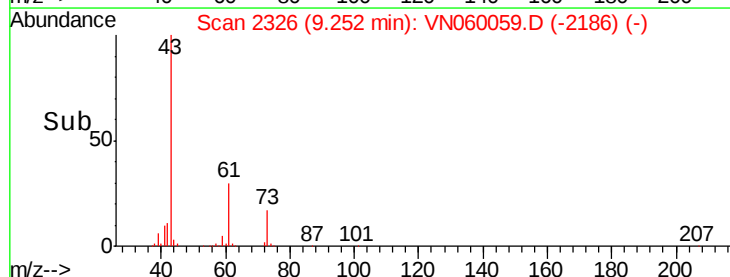
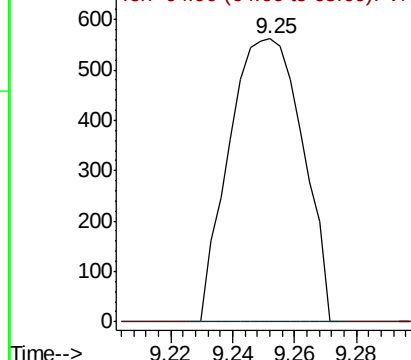
Ion Ratio Lower Upper

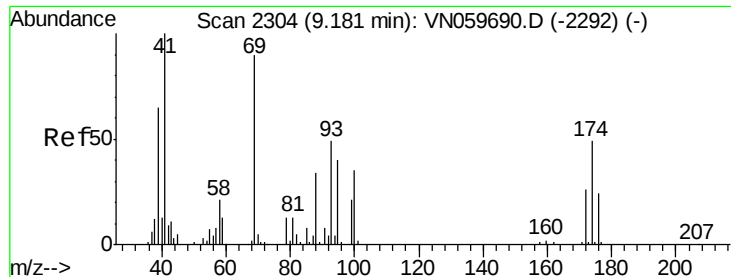
63 100

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

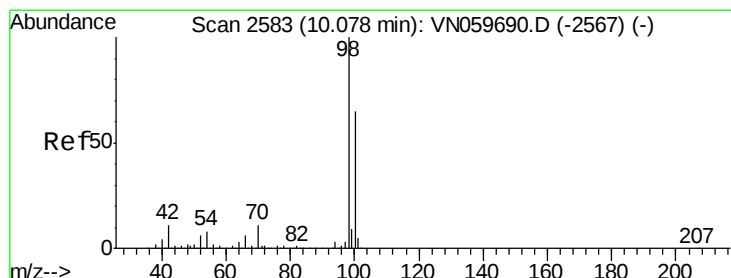
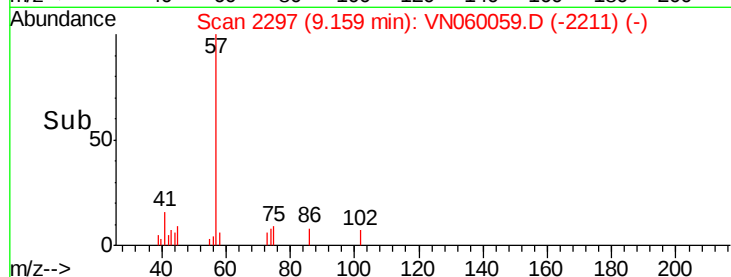
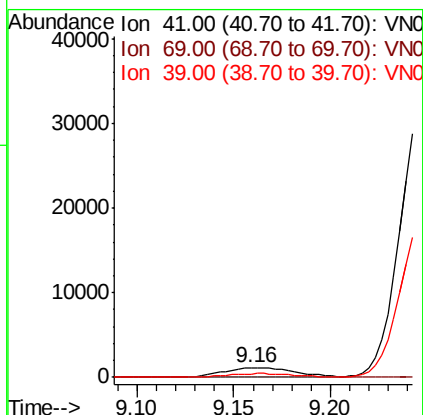
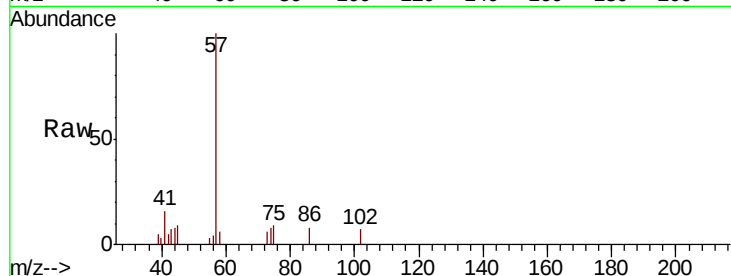




#48
Methvl methacrylate
Concen: 1.534 ug/l
RT: 9.16 min Scan# 2297
Delta R.T. -0.02 min
Lab File: VN060059.D
Acq: 11 Feb 2020 12:48

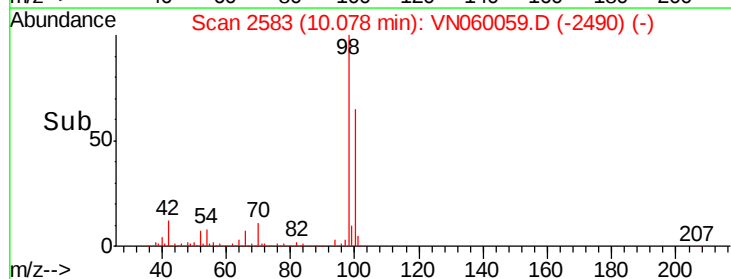
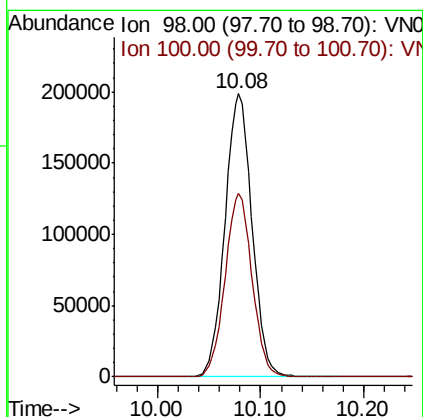
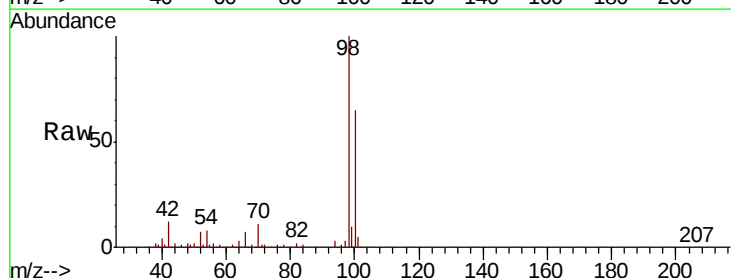
Instrument :
MSVOA_N
ClientSampleId :

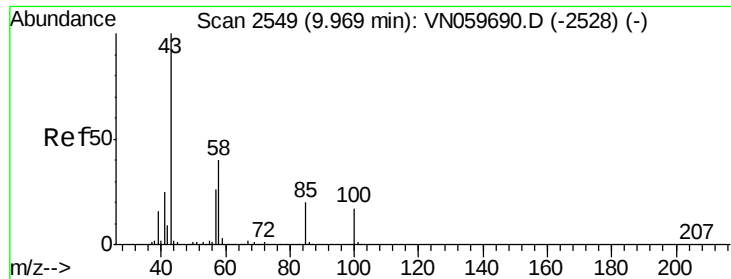
Tot Ion: 41 Resp: 2933
Ion Ratio Lower Upper
41 100
69 0.0 64.4 96.6#
39 0.0 51.3 76.9#



#50
Toluene-d8
Concen: 51.670 ug/l
RT: 10.08 min Scan# 2583
Delta R.T. 0.00 min
Lab File: VN060059.D
Acq: 11 Feb 2020 12:48

Tgt Ion: 98 Resp: 363135
Ion Ratio Lower Upper
98 100
100 64.5 51.2 76.8





#51

4-Methyl-2-Pentanone

Concen: 1.338 ug/l

RT: 9.97 min Scan# 2549

Delta R.T. 0.00 min

Lab File: VN060059.D

Acq: 11 Feb 2020 12:48

Instrument :

MSVOA_N

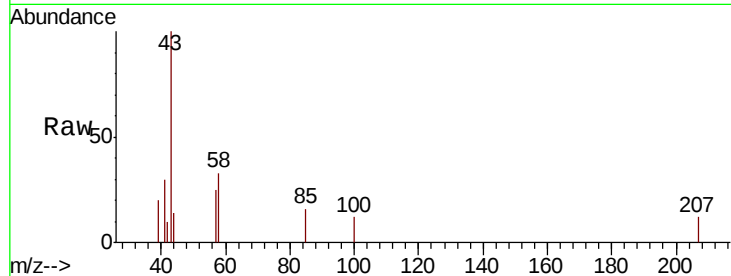
ClientSampleId :

Tot Ion: 43 Resp: 3304

Ion Ratio Lower Upper

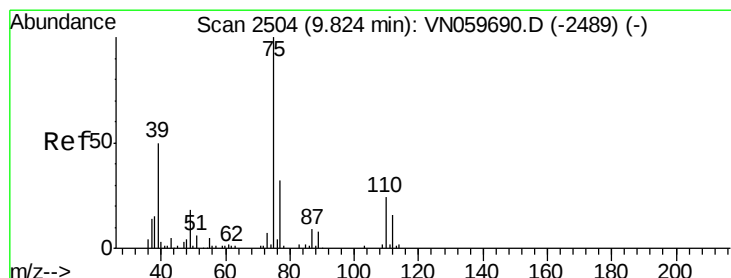
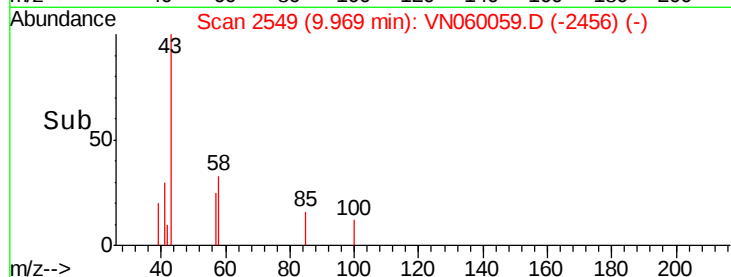
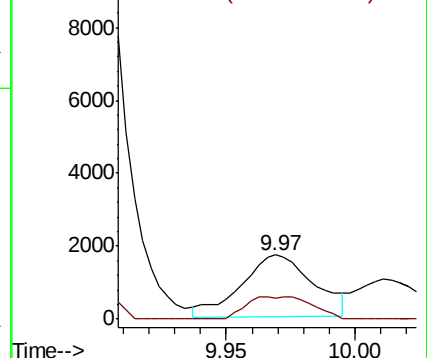
43 100

58 16.1 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: 6.210 ug/l

RT: 9.89 min Scan# 2524

Delta R.T. 0.06 min

Lab File: VN060059.D

Acq: 11 Feb 2020 12:48

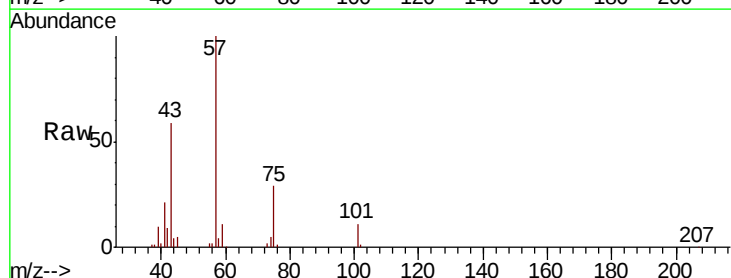
Tgt Ion: 75 Resp: 20272

Ion Ratio Lower Upper

75 100

77 0.0 25.1 37.7#

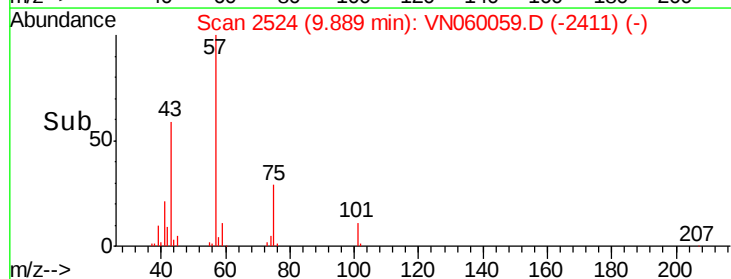
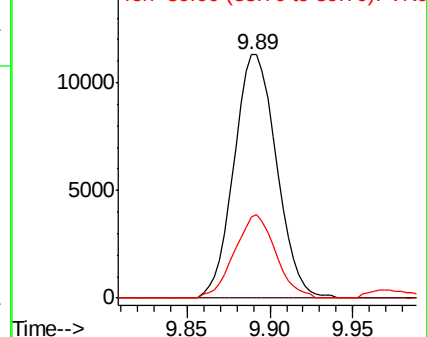
39 33.2 46.1 69.1#

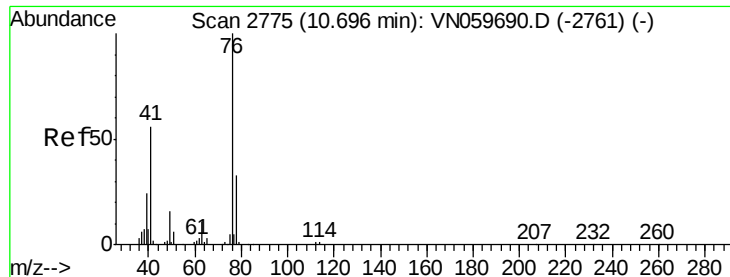


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0

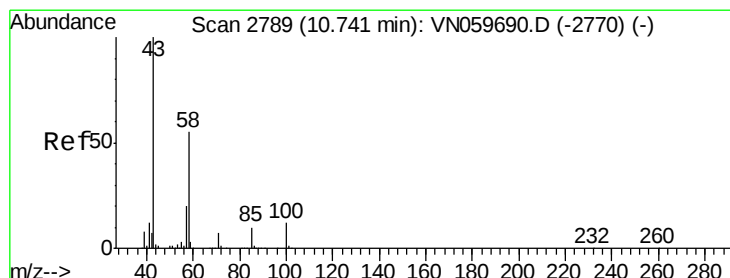
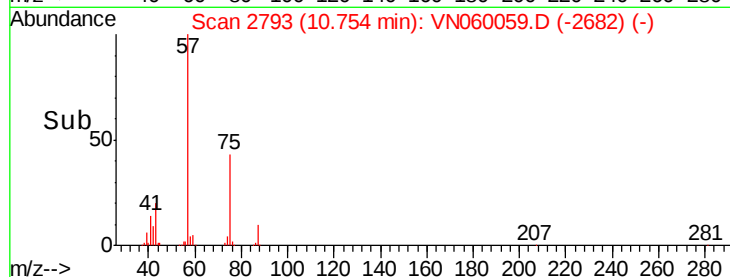
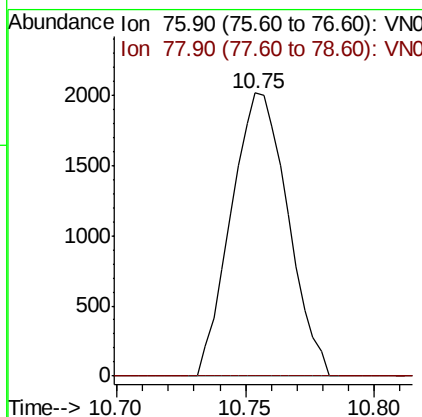
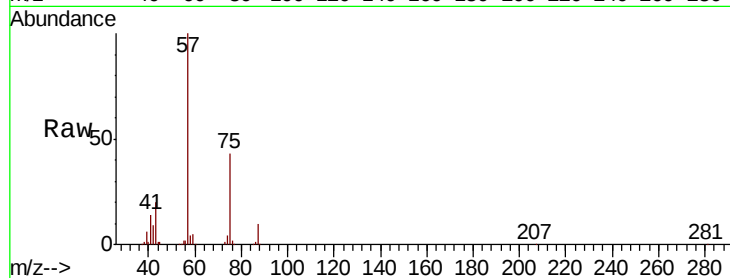




#57
 1,3-Dichloropropane
 Concen: 0.984 ug/l
 RT: 10.75 min Scan# 2793
 Delta R.T. 0.06 min
 Lab File: VN060059.D
 Acq: 11 Feb 2020 12:48

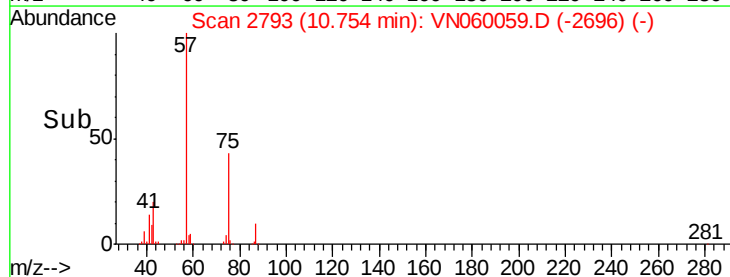
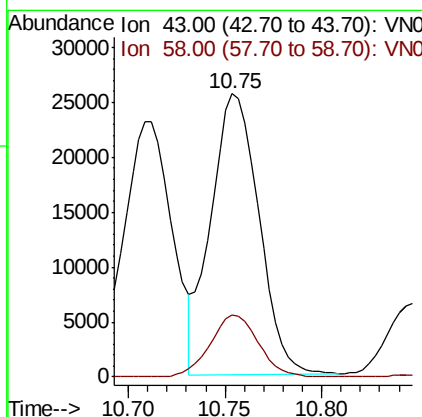
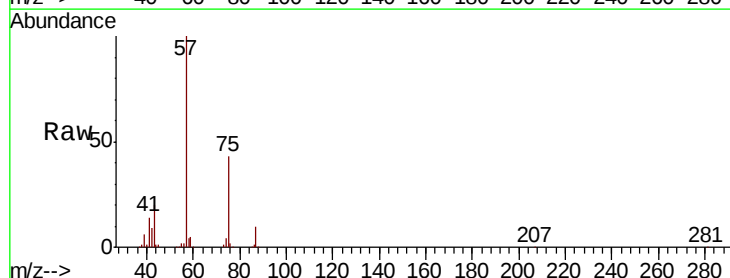
Instrument :
 MSVOA_N
 ClientSampled :

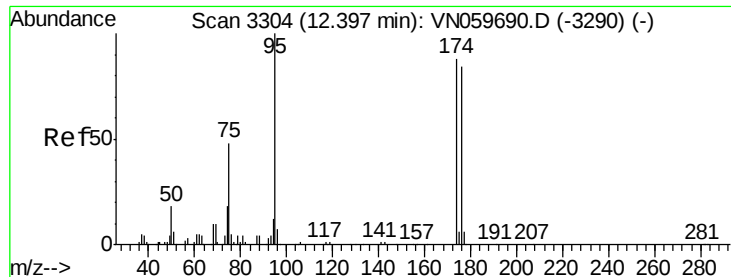
Tot Ion: 76 Resp: 3086
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.8 38.8#



#59
 2-Hexanone
 Concen: 24.389 ug/l
 RT: 10.75 min Scan# 2793
 Delta R.T. 0.01 min
 Lab File: VN060059.D
 Acq: 11 Feb 2020 12:48

Tgt Ion: 43 Resp: 44383
 Ion Ratio Lower Upper
 43 100
 58 21.8 25.8 77.3#





#62

4-Bromofluorobenzene

Concen: 49.069 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.00 min

Lab File: VN060059.D

Acq: 11 Feb 2020 12:48

Instrument :

MSVOA_N

ClientSampled :

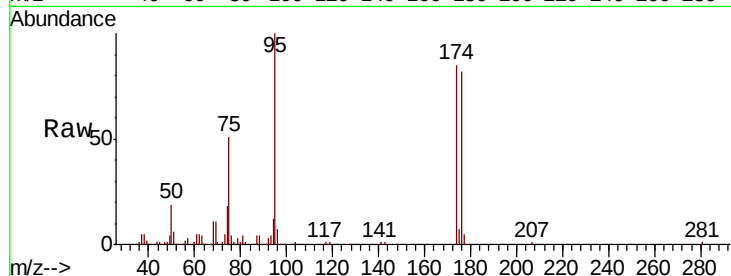
Tot Ion: 95 Resp: 124319

Ion Ratio Lower Upper

95 100

174 86.3 0.0 151.4

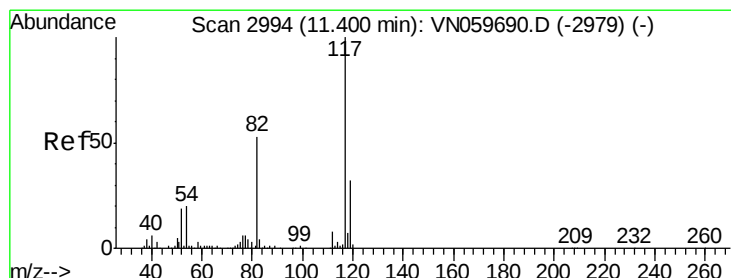
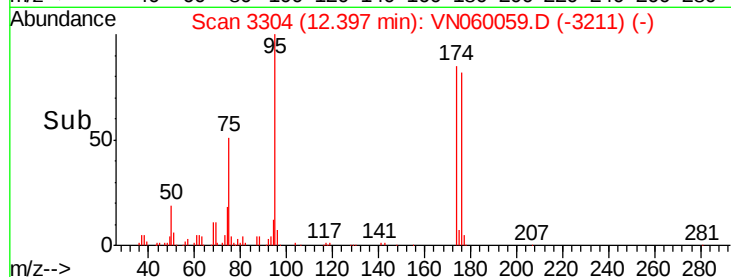
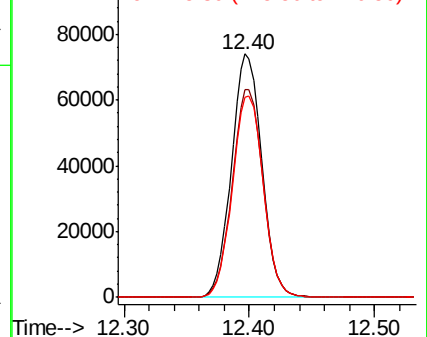
176 84.4 0.0 146.0



Abundance Ion 94.90 (94.60 to 95.60): VN060059.D (-3211) (-)

Ion 173.80 (173.50 to 174.50): VN060059.D (-3211) (-)

Ion 175.80 (175.50 to 176.50): VN060059.D (-3211) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.40 min Scan# 2994

Delta R.T. 0.00 min

Lab File: VN060059.D

Acq: 11 Feb 2020 12:48

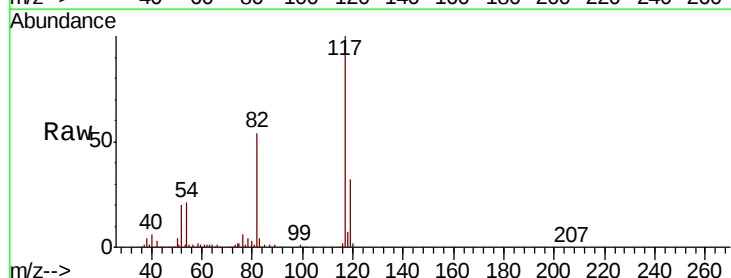
Tgt Ion: 117 Resp: 275691

Ion Ratio Lower Upper

117 100

82 54.1 45.9 68.9

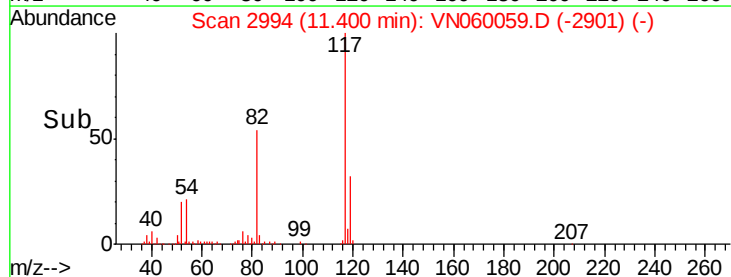
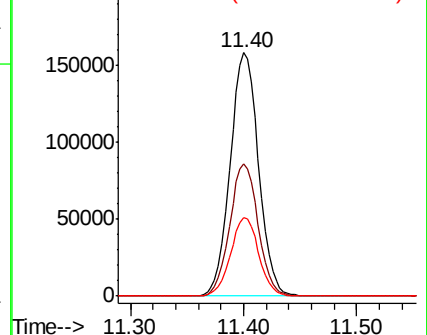
119 32.0 25.5 38.3

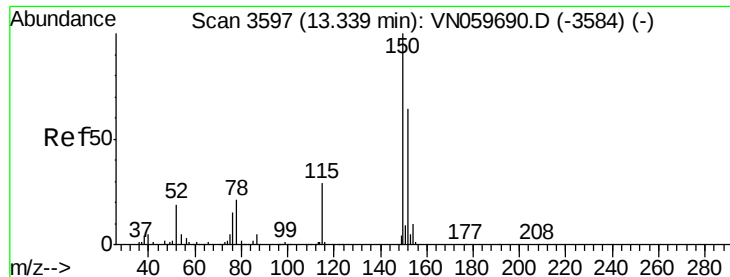


Abundance Ion 116.90 (116.60 to 117.60): VN060059.D (-2901) (-)

Ion 82.00 (81.70 to 82.70): VN060059.D (-2901) (-)

Ion 118.90 (118.60 to 119.60): VN060059.D (-2901) (-)



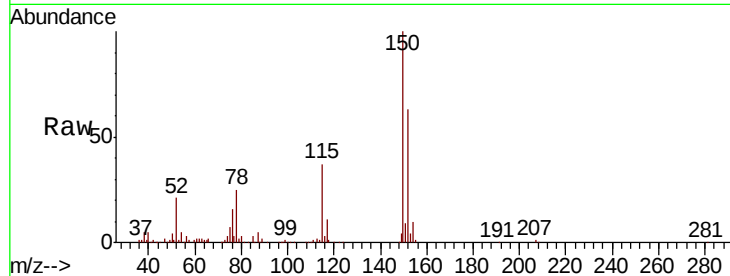


#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3597
Delta R.T. 0.00 min
Lab File: VN060059.D
Acq: 11 Feb 2020 12:48

Instrument :
MSVOA_N
ClientSampled :

Tot Ion	Ratio	Lower	Upper
152	100		
115	57.6	30.3	90.9
150	159.2	0.0	345.2

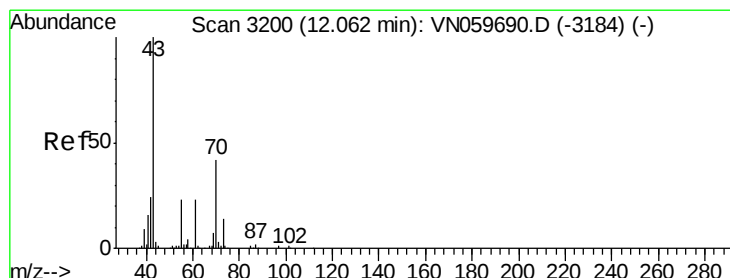
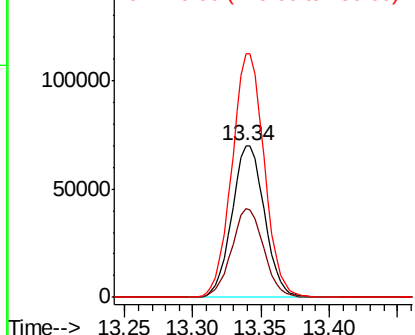
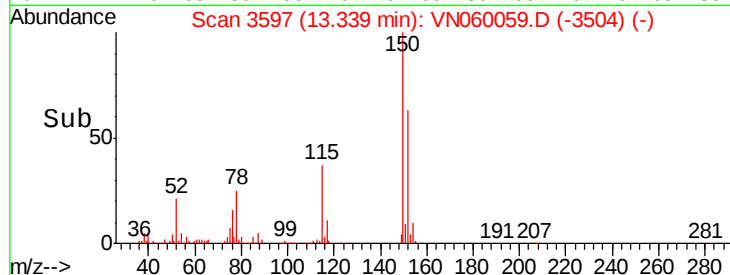


Abundance

Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

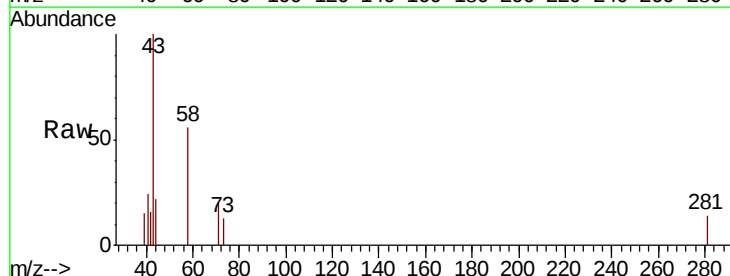
Ion 149.90 (149.60 to 150.60): V



#74

N-ethyl acetate
Concen: 0.709 ug/l
RT: 12.03 min Scan# 3190
Delta R.T. -0.03 min
Lab File: VN060059.D
Acq: 11 Feb 2020 12:48

Tgt 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#



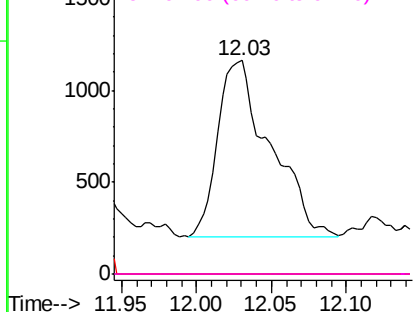
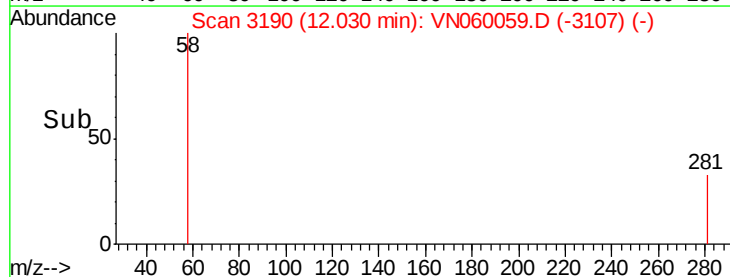
Abundance

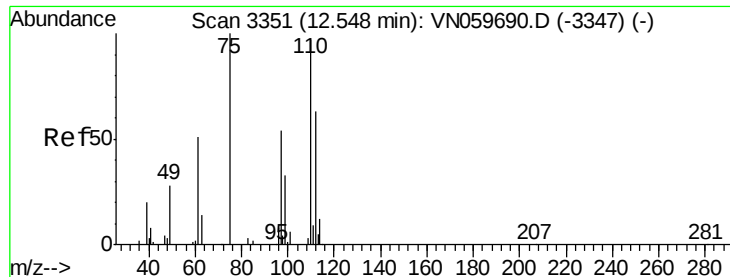
Ion 43.00 (42.70 to 43.70): V

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

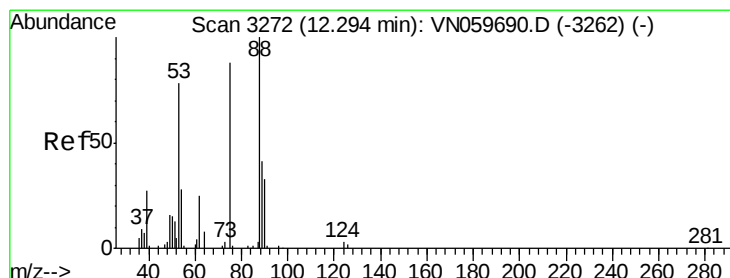
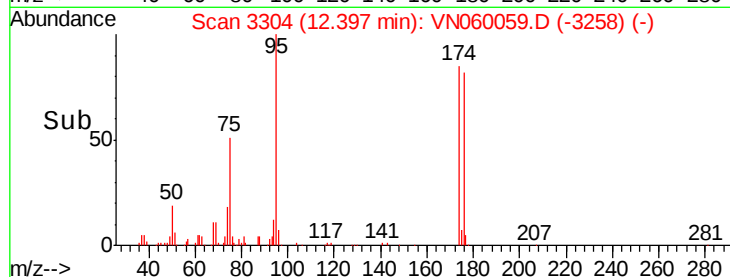
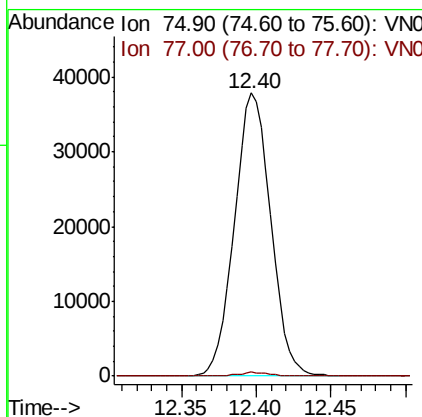
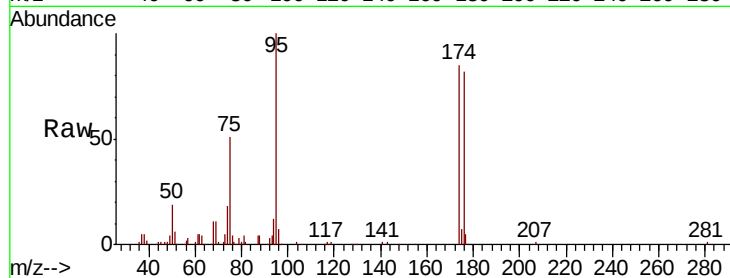




#76
 1,2,3-Trichloropropane
 Concen: 32.586 ug/l
 RT: 12.40 min Scan# 3304
 Delta R.T. -0.15 min
 Lab File: VN060059.D
 Acq: 11 Feb 2020 12:48

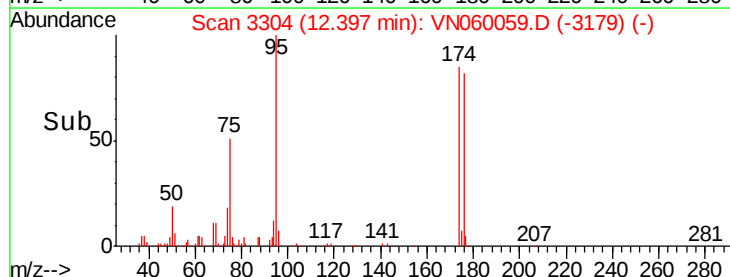
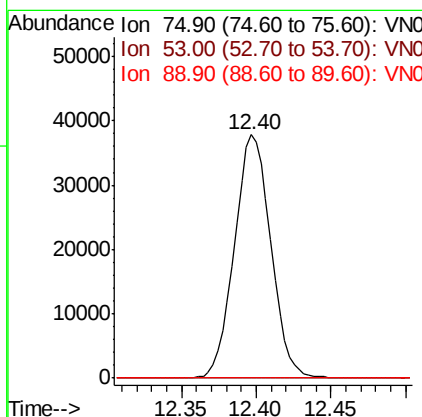
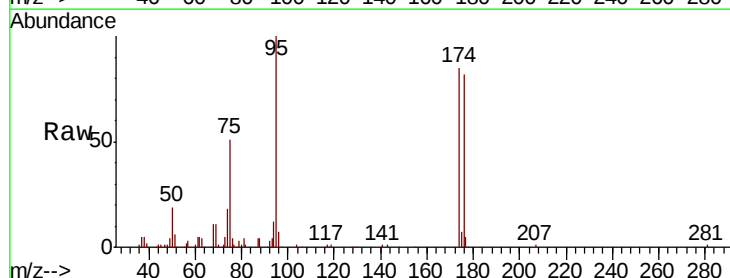
Instrument :
 MSVOA_N
 ClientSampled :

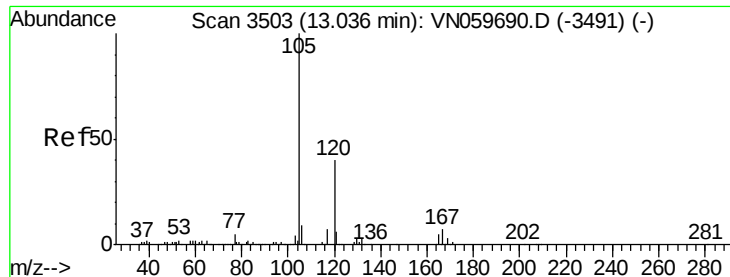
Tot Ion: 75 Resp: 63936
 Ion Ratio Lower Upper
 75 100
 77 1.0 0.0 0.0#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 69.980 ug/l
 RT: 12.40 min Scan# 3304
 Delta R.T. 0.10 min
 Lab File: VN060059.D
 Acq: 11 Feb 2020 12:48

Tgt Ion: 75 Resp: 63936
 Ion Ratio Lower Upper
 75 100
 53 0.0 78.1 117.1#
 89 0.0 35.4 53.2#

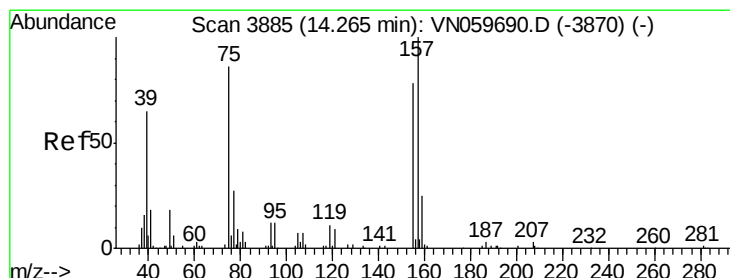
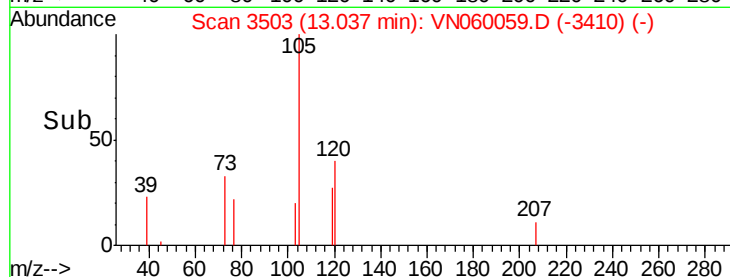
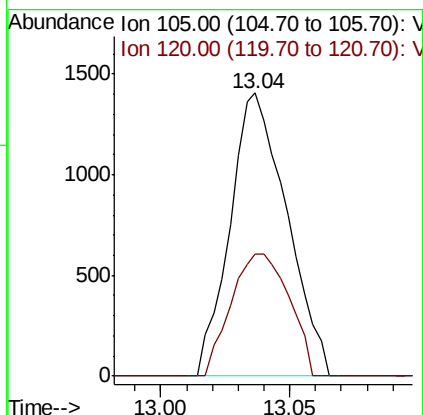
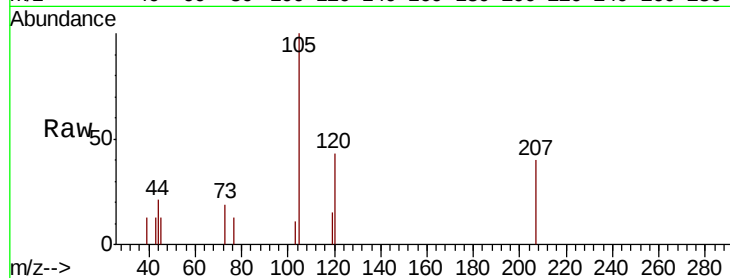




#84
 1,2,4-Trimethylbenzene
 Concen: 0.303 ug/l
 RT: 13.04 min Scan# 3503
 Delta R.T. 0.00 min
 Lab File: VN060059.D
 Acq: 11 Feb 2020 12:48

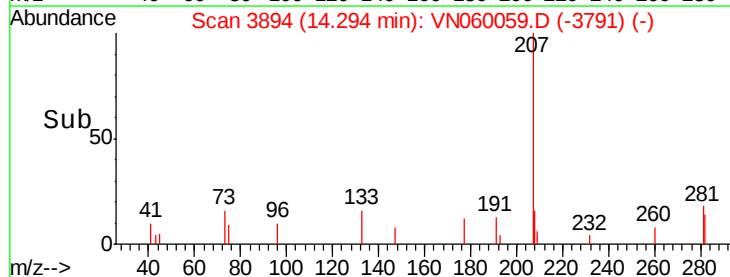
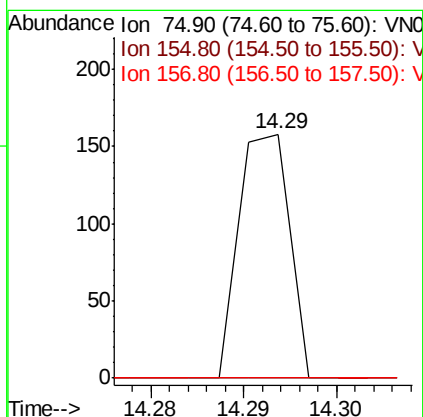
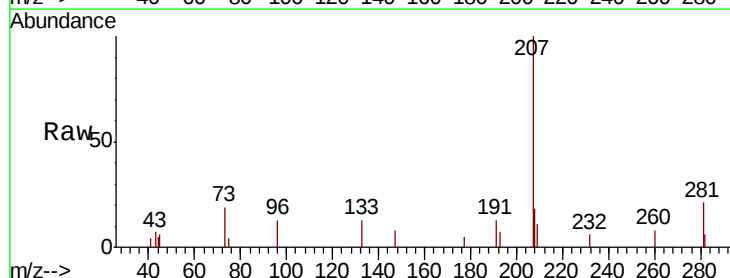
Instrument :
 MSVOA_N
 ClientSampleId :

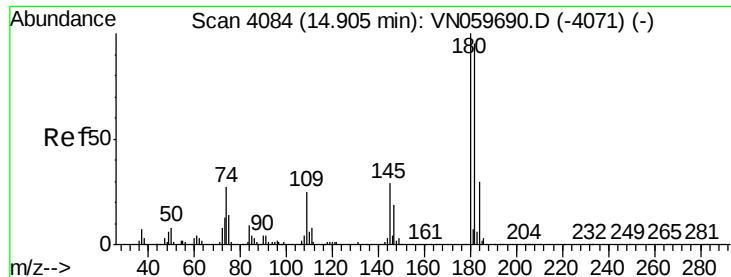
Tot Ion:105 Resp: 2154
 Ion Ratio Lower Upper
 105 100
 120 44.3 22.3 66.9



#92
 1,2-Dibromo-3-Chloropropane
 Concen: Below Cal
 RT: 14.29 min Scan# 3894
 Delta R.T. 0.03 min
 Lab File: VN060059.D
 Acq: 11 Feb 2020 12:48

Tgt Ion: 75 Resp: 60
 Ion Ratio Lower Upper
 75 100
 155 0.0 37.0 110.9#
 157 0.0 48.4 145.2#

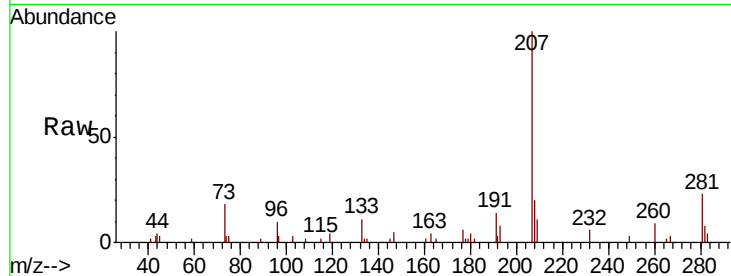




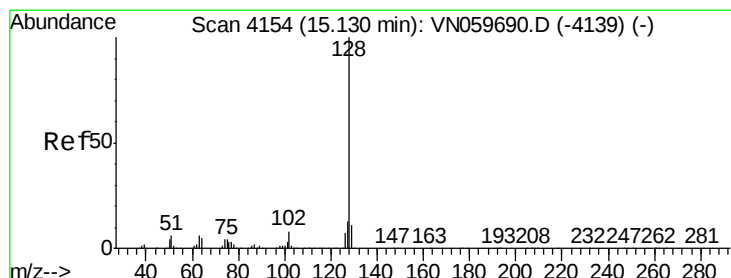
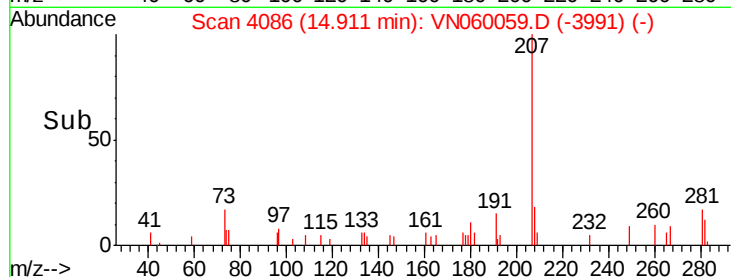
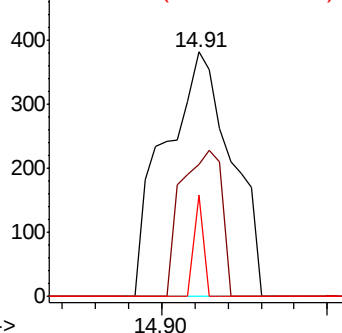
#93
 1,2,4-Trichlorobenzene
 Concen: 0.239 ug/l
 RT: 14.91 min Scan# 4086
 Delta R.T. 0.01 min
 Lab File: VN060059.D
 Acq: 11 Feb 2020 12:48

Instrument :
 MSVOA_N
 ClientSampled :

Tot Ion:180 Resp: 534
 Ion Ratio Lower Upper
 180 100
 182 36.3 46.9 140.7#
 145 5.6 15.0 45.1#

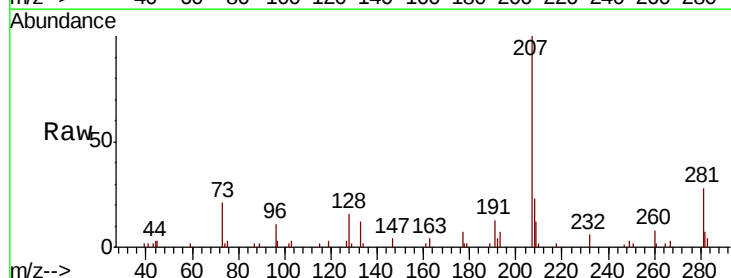


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V



#95
 Naphthalene
 Concen: 0.484 ug/l
 RT: 15.13 min Scan# 4154
 Delta R.T. 0.00 min
 Lab File: VN060059.D
 Acq: 11 Feb 2020 12:48

Tgt Ion:128 Resp: 3077
 Ion Ratio Lower Upper
 128 100
 127 9.6 10.4 15.6#
 129 9.1 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

