

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN022120\
 Data File : VN060191.D
 Acq On : 21 Feb 2020 16:35
 Operator : JC/MD
 Sample : L1658-01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Feb 21 22:26:29 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N021220W.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 12 14:12:21 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	178789	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.56	114	282958	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	264063	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	120919	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	104090	47.85	ug/l	0.00
Spiked Amount			Recovery	=	95.70%	
35) Dibromofluoromethane	7.56	113	84402	48.53	ug/l	0.00
Spiked Amount			Recovery	=	97.06%	
50) Toluene-d8	10.08	98	340265	49.68	ug/l	0.00
Spiked Amount			Recovery	=	99.36%	
62) 4-Bromofluorobenzene	12.40	95	124733	49.56	ug/l	0.00
Spiked Amount			Recovery	=	99.12%	

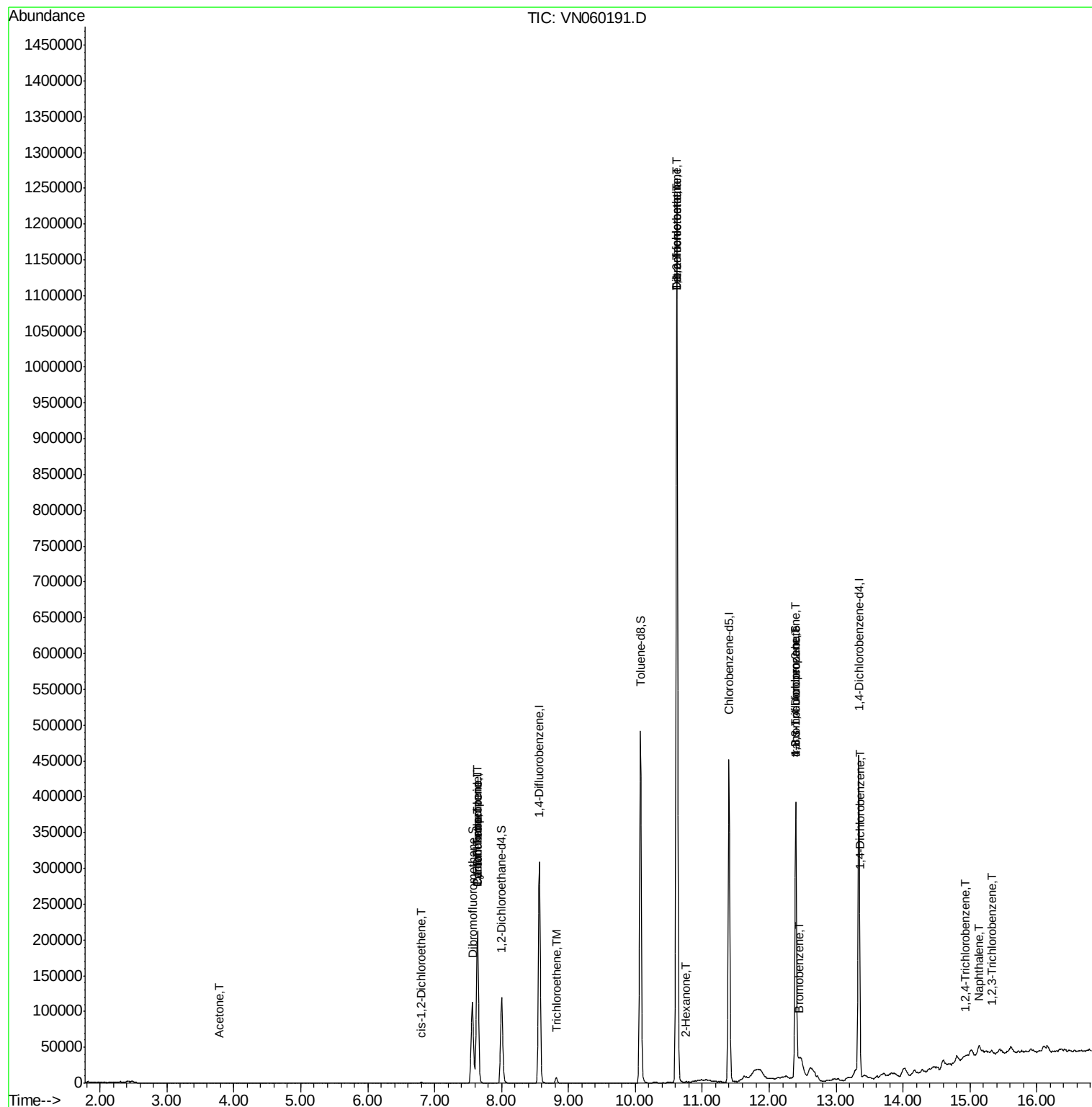
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.79	43	852	0.898	ug/l #	43
27) cis-1,2-Dichloroethene	6.80	96	907	0.421	ug/l	68
31) Cyclohexane	7.63	56	3403	1.106	ug/l #	1
36) 1,1-Dichloropropene	7.64	75	12702	4.846	ug/l #	49
38) Carbon Tetrachloride	7.64	117	16760	5.888	ug/l #	14
44) Trichloroethene	8.82	130	3344	1.553	ug/l	96
55) 1,1,2-Trichloroethane	10.62	97	2497	1.284	ug/l #	9
59) 2-Hexanone	10.76	43	443	0.245	ug/l #	24
60) Dibromochloromethane	10.62	129	264657	118.577	ug/l #	11
64) Tetrachloroethene	10.62	164	287759	143.351	ug/l	99
76) 1,2,3-Trichloropropane	12.40	75	63873	27.610	ug/l #	100
77) Bromobenzene	12.45	156	22788	10.169	ug/l #	1
81) trans-1,4-Dichloro-2-buten	12.40	75	63873	67.602	ug/l #	13
88) 1,4-Dichlorobenzene	13.36	146	860	0.217	ug/l #	25
92) 1,2-Dibromo-3-Chloropropan	14.26	75	164	Below Cal	#	1
93) 1,2,4-Trichlorobenzene	14.91	180	657	0.288	ug/l #	72
95) Naphthalene	15.13	128	4914	0.798	ug/l #	86
96) 1,2,3-Trichlorobenzene	15.31	180	753	0.332	ug/l	83

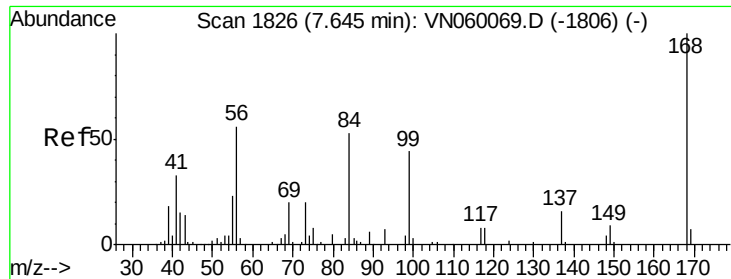
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN060191.D

Acq: 21 Feb 2020 16:35

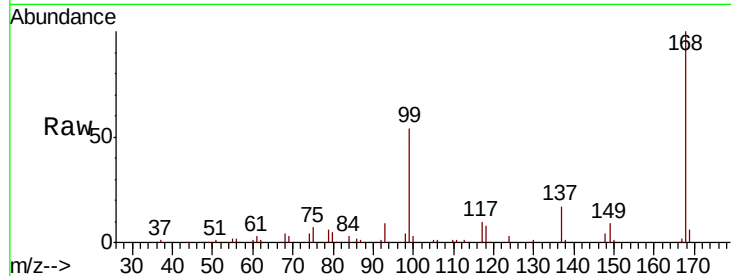
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 178789

Ion Ratio Lower Upper

168 100

99 53.9 42.7 64.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.64

80000

60000

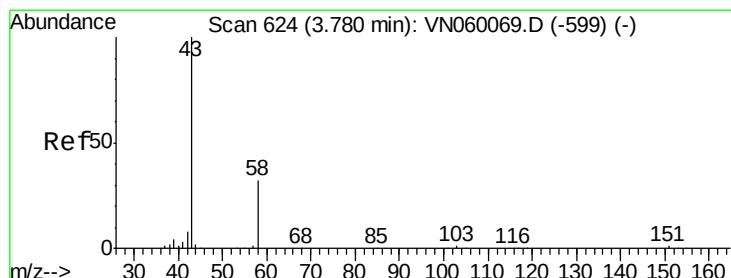
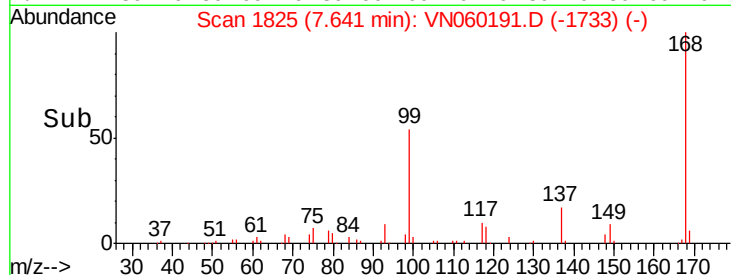
40000

20000

0

7.55 7.60 7.65 7.70 7.75

Time-->



#16

Acetone

Concen: 0.898 ug/l

RT: 3.79 min Scan# 627

Delta R.T. 0.01 min

Lab File: VN060191.D

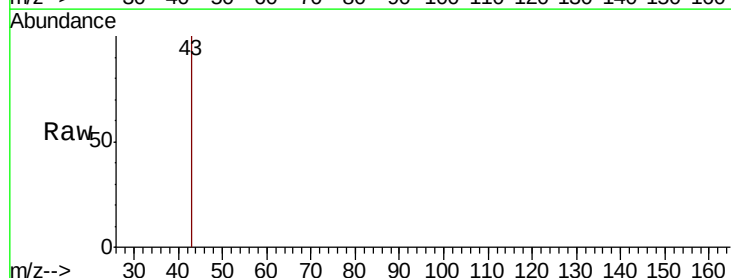
Acq: 21 Feb 2020 16:35

Tgt Ion: 43 Resp: 852

Ion Ratio Lower Upper

43 100

58 0.0 25.2 37.8#



Abundance Ion 43.00 (42.70 to 43.70): VN

Ion 58.00 (57.70 to 58.70): VN

3.79

300

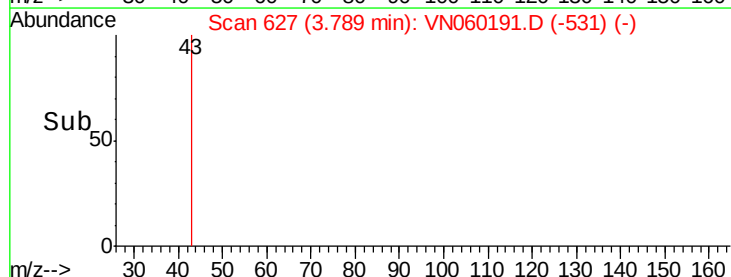
200

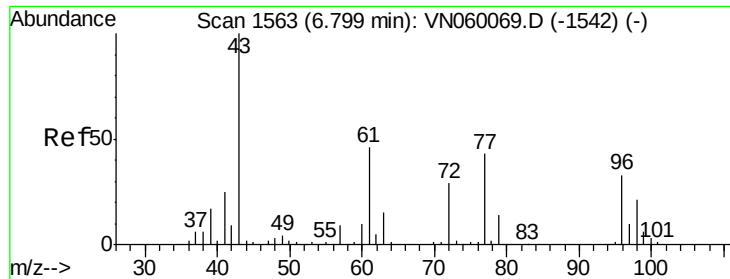
100

0

3.75 3.80 3.85

Time-->





#27

cis-1,2-Dichloroethene

Concen: 0.421 ug/l

RT: 6.80 min Scan# 1564

Delta R.T. 0.00 min

Lab File: VN060191.D

Acq: 21 Feb 2020 16:35

Instrument :
MSVOA_N
ClientSampled :

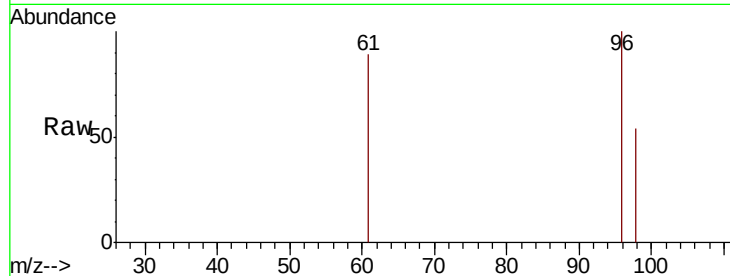
Tot Ion: 96 Resp: 907

Ion Ratio Lower Upper

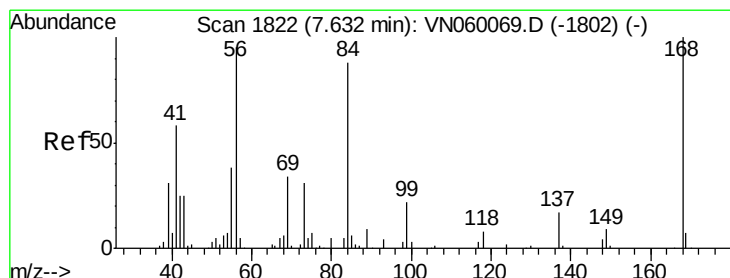
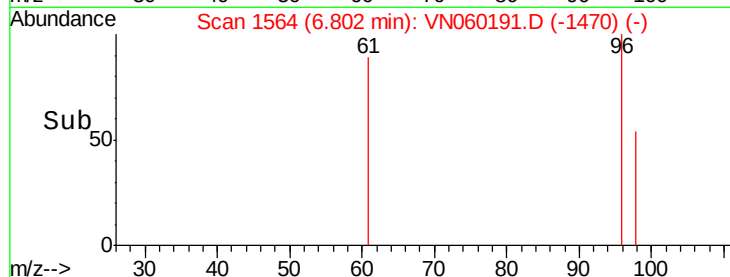
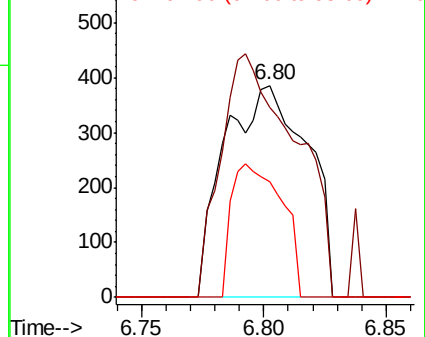
96 100

61 104.3 0.0 285.8

98 38.5 0.0 129.6



Abundance Ion 95.90 (95.60 to 96.60): VN0
Ion 60.90 (60.60 to 61.60): VN0
Ion 97.90 (97.60 to 98.60): VN0



#31

Cyclohexane

Concen: 1.106 ug/l

RT: 7.63 min Scan# 1823

Delta R.T. 0.00 min

Lab File: VN060191.D

Acq: 21 Feb 2020 16:35

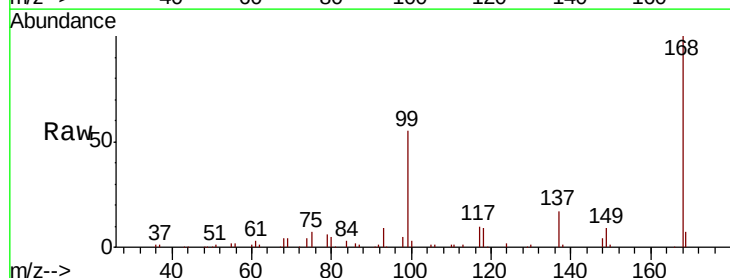
Tgt Ion: 56 Resp: 3403

Ion Ratio Lower Upper

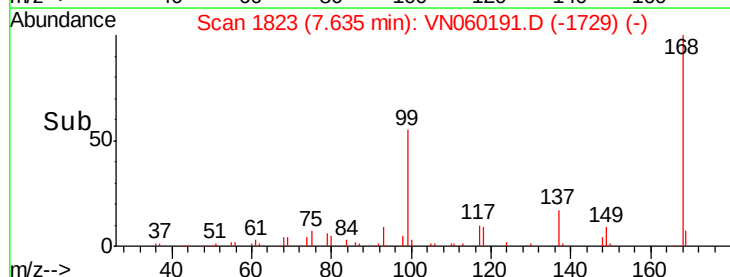
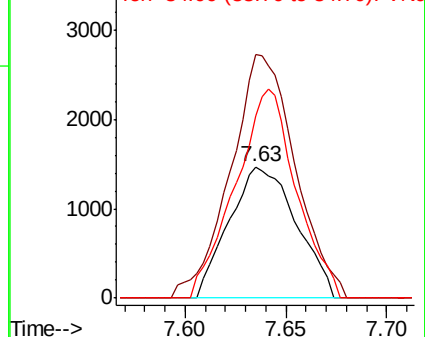
56 100

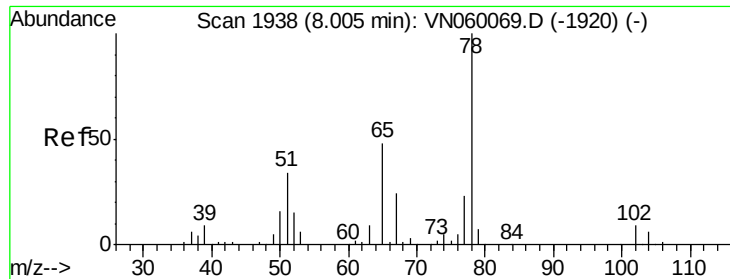
69 173.4 28.3 42.5#

84 138.5 72.6 108.8#



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

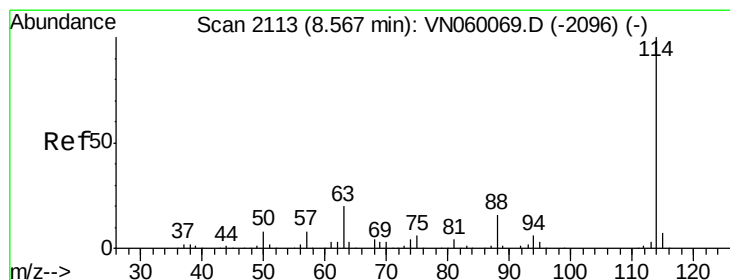
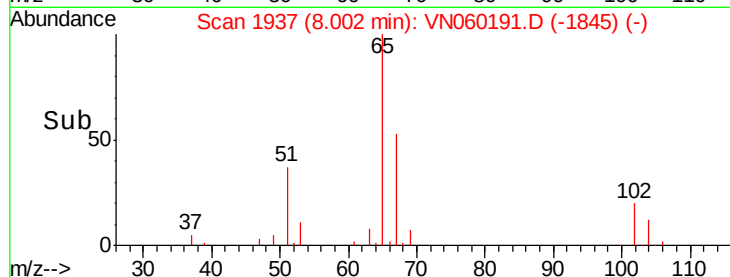
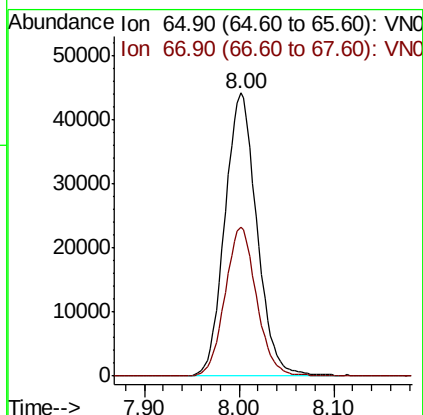
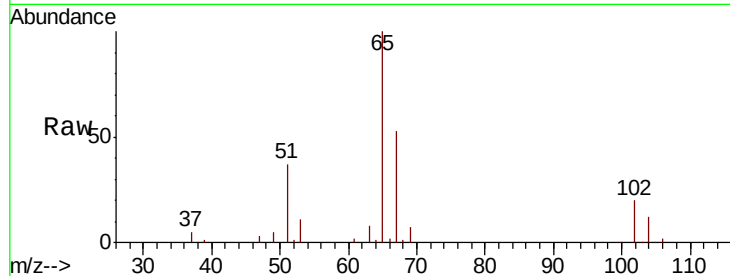




#33
 1,2-Dichloroethane-d4
 Concen: 47.845 ug/l
 RT: 8.00 min Scan# 1937
 Delta R.T. -0.00 min
 Lab File: VN060191.D
 Acq: 21 Feb 2020 16:35

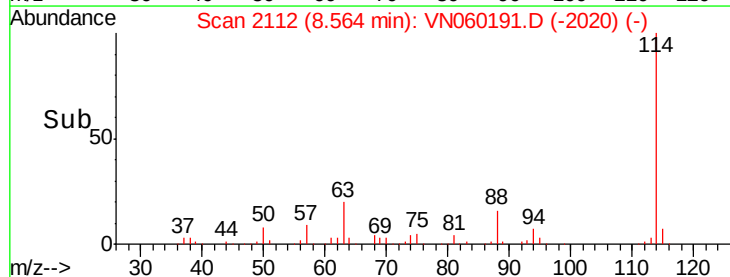
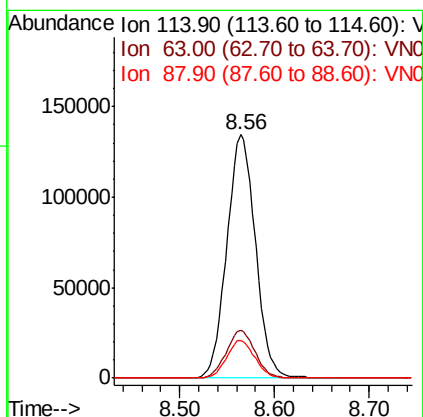
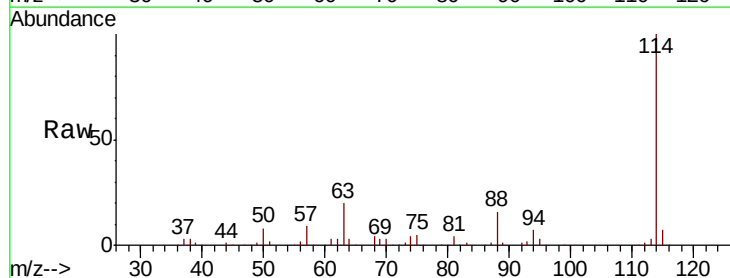
Instrument :
 MSVOA_N
 ClientSampleId :

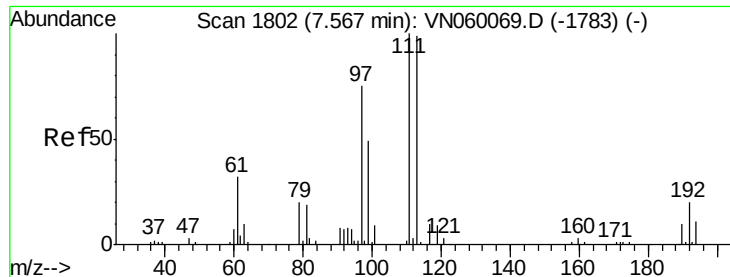
Tot Ion: 65 Resp: 104090
 Ion Ratio Lower Upper
 65 100
 67 51.6 0.0 104.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.56 min Scan# 2112
 Delta R.T. -0.00 min
 Lab File: VN060191.D
 Acq: 21 Feb 2020 16:35

Tgt Ion: 114 Resp: 282958
 Ion Ratio Lower Upper
 114 100
 63 19.6 0.0 40.0
 88 15.6 0.0 31.6

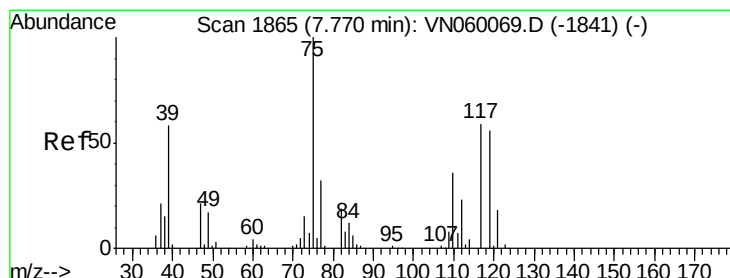
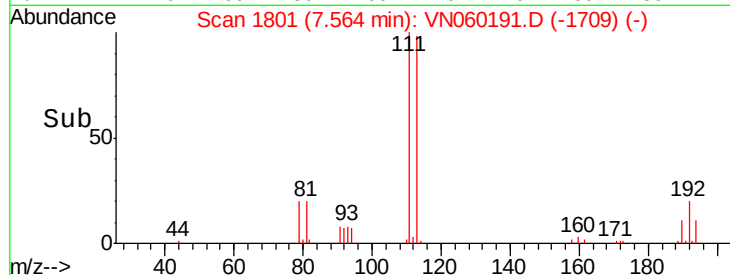
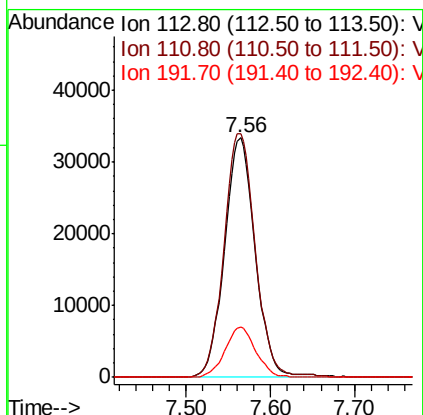
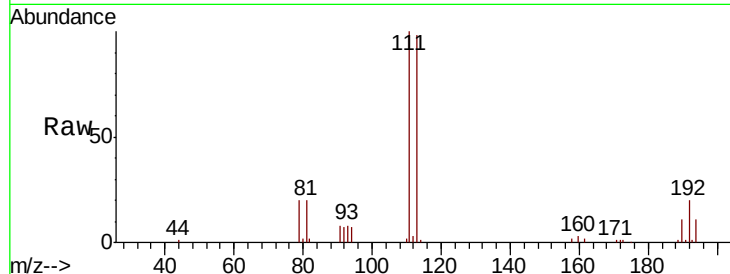




#35
 Dibromofluoromethane
 Concen: 48.525 ug/l
 RT: 7.56 min Scan# 1801
 Delta R.T. -0.00 min
 Lab File: VN060191.D
 Acq: 21 Feb 2020 16:35

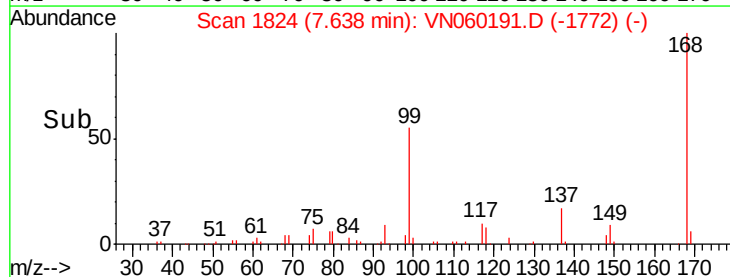
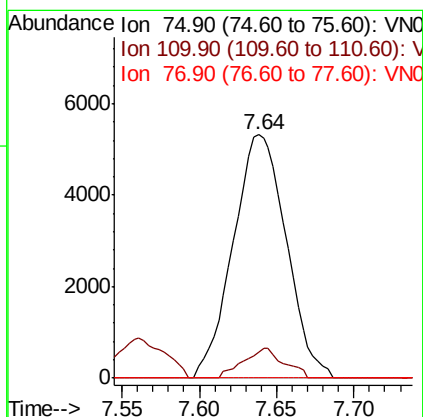
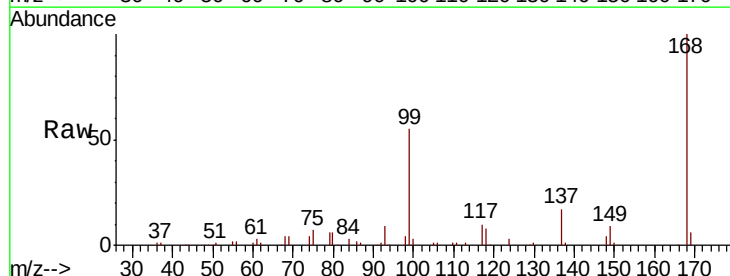
Instrument :
 MSVOA_N
 ClientSampleId :

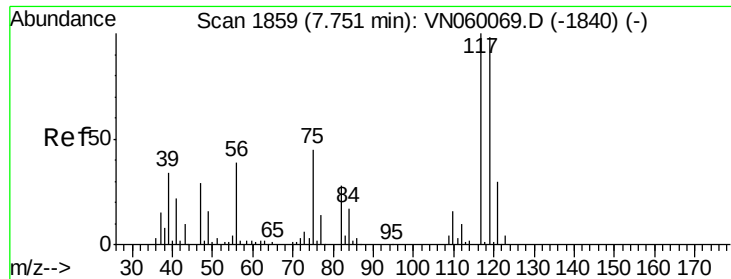
Tot Ion:113 Resp: 84402
 Ion Ratio Lower Upper
 113 100
 111 103.1 81.4 122.2
 192 20.8 16.2 24.2



#36
 1,1-Dichloropropene
 Concen: 4.846 ug/l
 RT: 7.64 min Scan# 1824
 Delta R.T. -0.13 min
 Lab File: VN060191.D
 Acq: 21 Feb 2020 16:35

Tgt Ion: 75 Resp: 12702
 Ion Ratio Lower Upper
 75 100
 110 9.3 18.1 54.3#
 77 0.0 25.1 37.7#

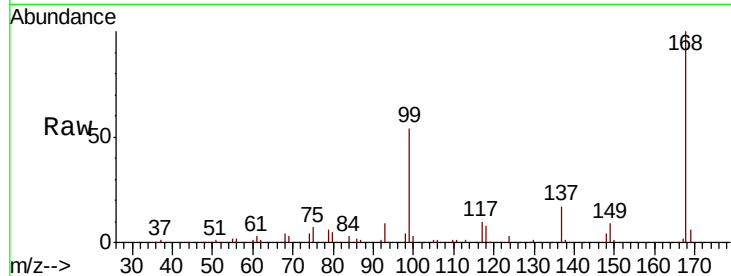




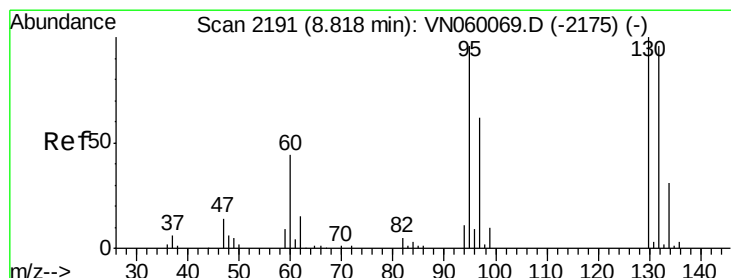
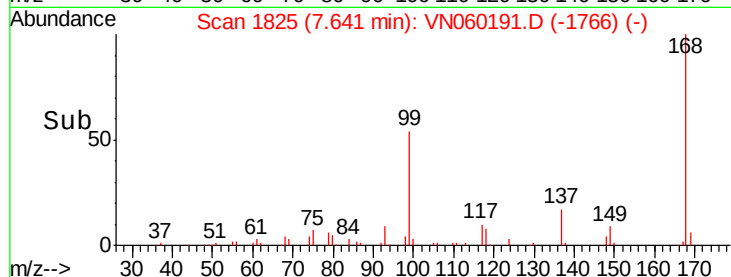
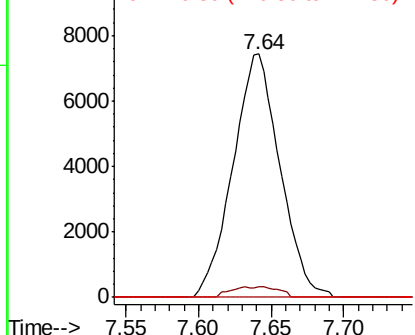
#38
Carbon Tetrachloride
Concen: 5.888 ug/l
RT: 7.64 min Scan# 1825
Delta R.T. -0.11 min
Lab File: VN060191.D
Acq: 21 Feb 2020 16:35

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:117 Resp: 16760
Ion Ratio Lower Upper
117 100
119 4.2 78.2 117.4#
121 0.0 24.2 36.2#

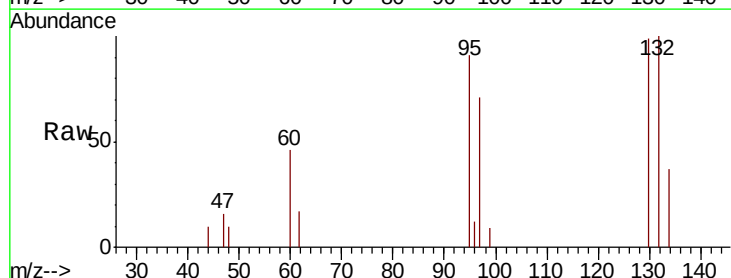


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

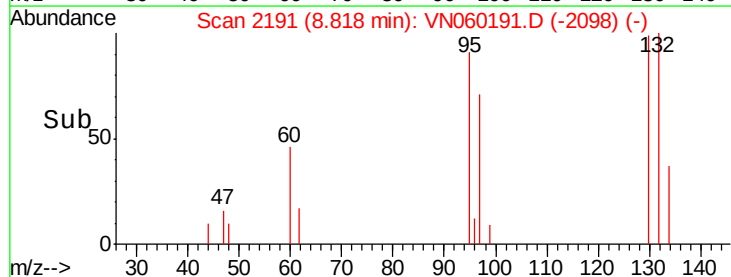
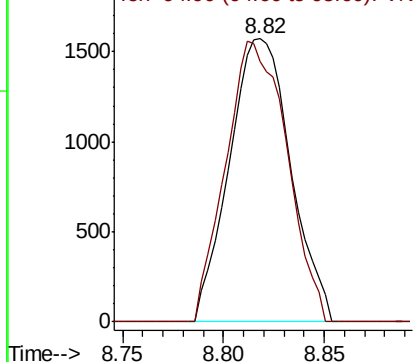


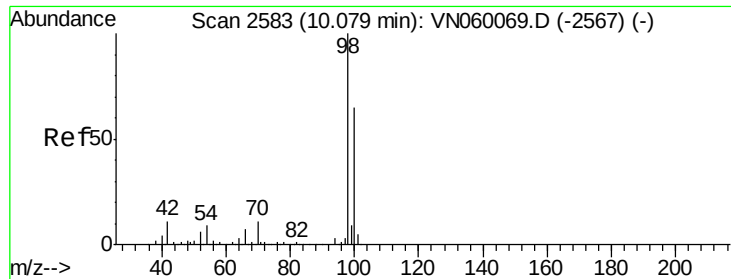
#44
Trichloroethene
Concen: 1.553 ug/l
RT: 8.82 min Scan# 2191
Delta R.T. 0.00 min
Lab File: VN060191.D
Acq: 21 Feb 2020 16:35

Tgt Ion:130 Resp: 3344
Ion Ratio Lower Upper
130 100
95 91.9 0.0 192.4



Abundance Ion 129.80 (129.50 to 130.50): V
Ion 94.90 (94.60 to 95.60): V

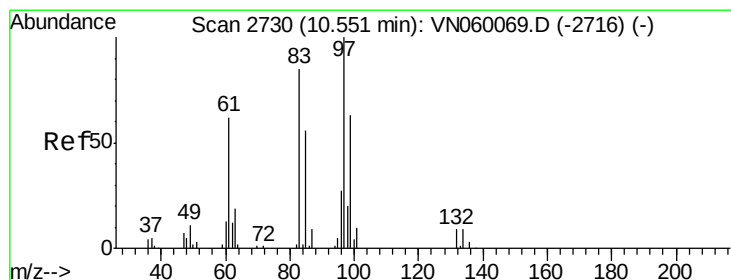
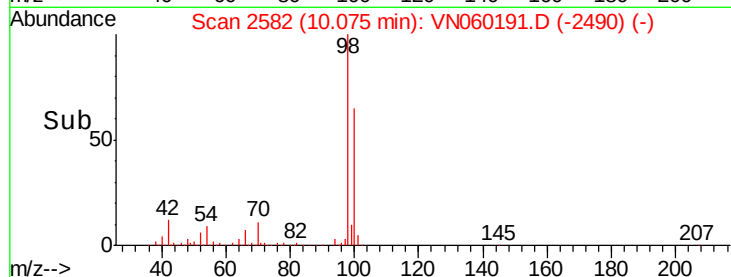
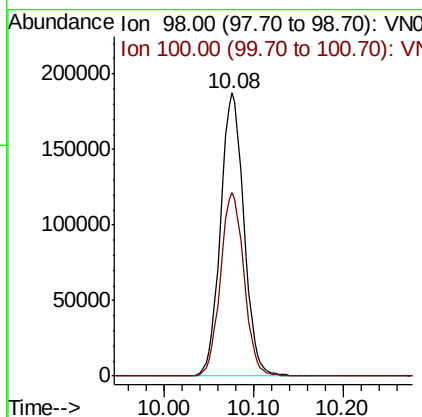
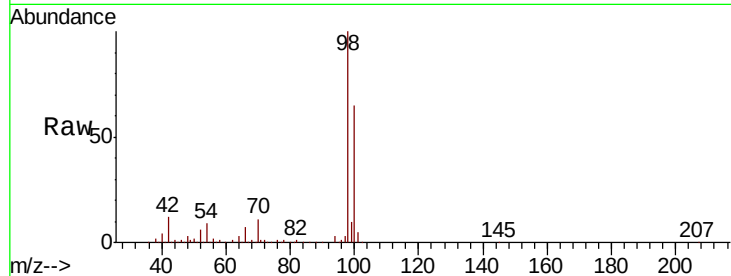




#50
Toluene-d8
Concen: 49.678 ug/l
RT: 10.08 min Scan# 2582
Delta R.T. -0.00 min
Lab File: VN060191.D
Acq: 21 Feb 2020 16:35

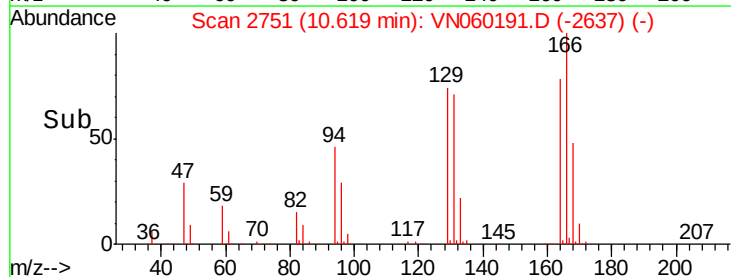
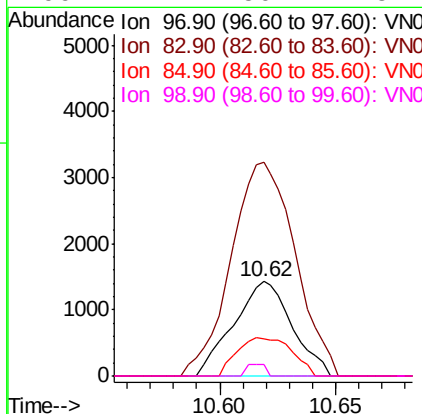
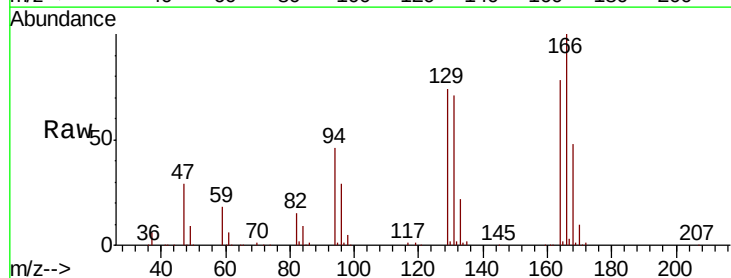
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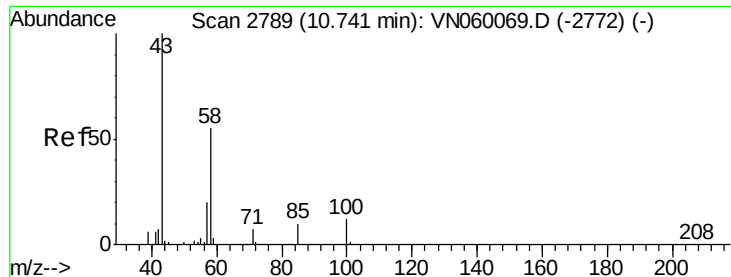
Tot Ion: 98 Resp: 340265
Ion Ratio Lower Upper
98 100
100 65.2 51.7 77.5



#55
1,1,2-Trichloroethane
Concen: 1.284 ug/l
RT: 10.62 min Scan# 2751
Delta R.T. 0.07 min
Lab File: VN060191.D
Acq: 21 Feb 2020 16:35

Tgt Ion: 97 Resp: 2497
Ion Ratio Lower Upper
97 100
83 226.8 67.9 101.9#
85 39.6 44.6 67.0#
99 11.7 50.1 75.1#

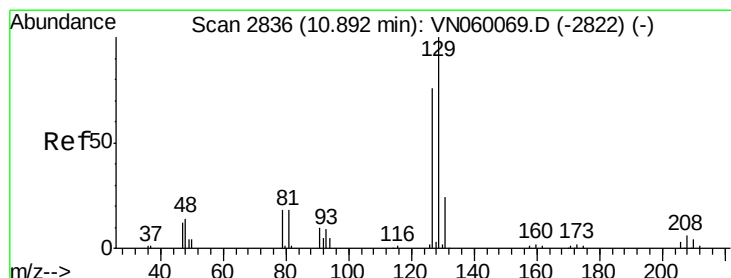
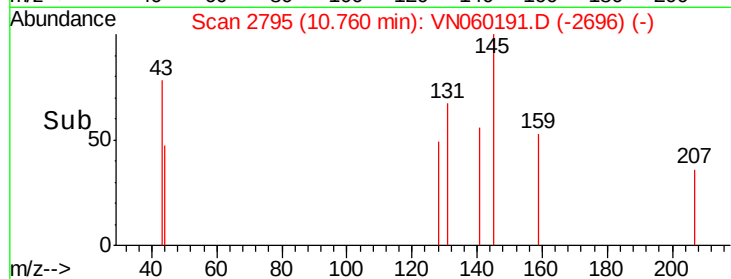
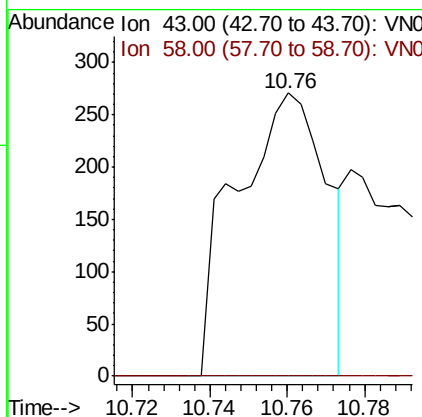
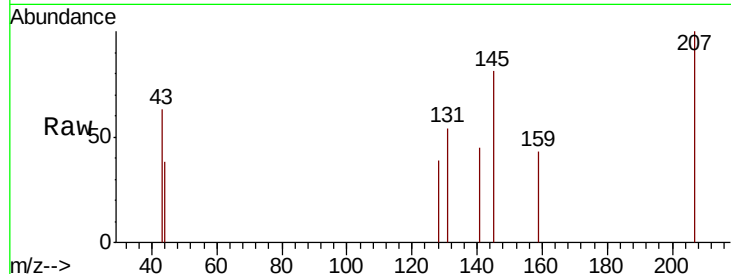




#59
2-Hexanone
Concen: 0.245 ug/l
RT: 10.76 min Scan# 2795
Delta R.T. 0.02 min
Lab File: VN060191.D
Acq: 21 Feb 2020 16:35

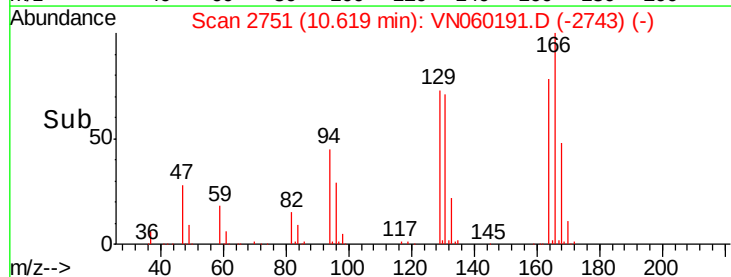
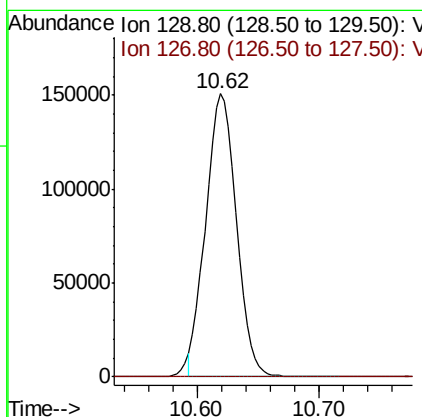
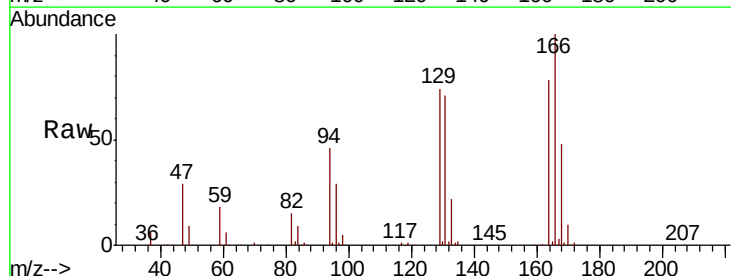
Instrument :
MSVOA_N
ClientSampled :

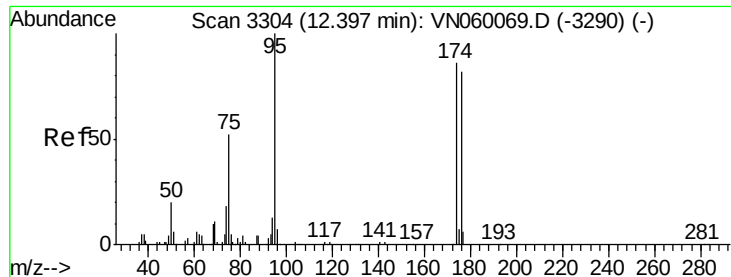
Tot Ion: 43 Resp: 443
Ion Ratio Lower Upper
43 100
58 0.0 27.5 82.4#



#60
Dibromochloromethane
Concen: 118.577 ug/l
RT: 10.62 min Scan# 2751
Delta R.T. -0.27 min
Lab File: VN060191.D
Acq: 21 Feb 2020 16:35

Tgt Ion: 129 Resp: 264657
Ion Ratio Lower Upper
129 100
127 0.0 38.0 114.1#

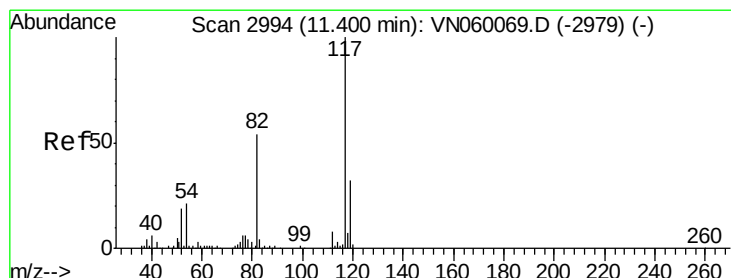
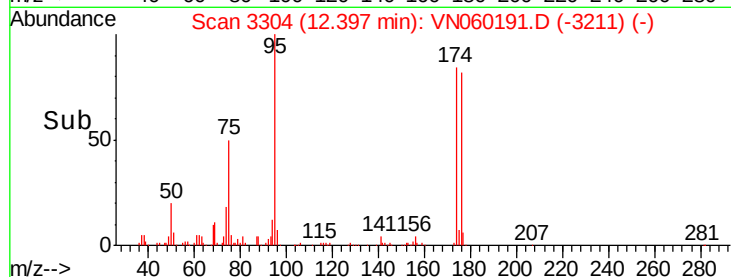
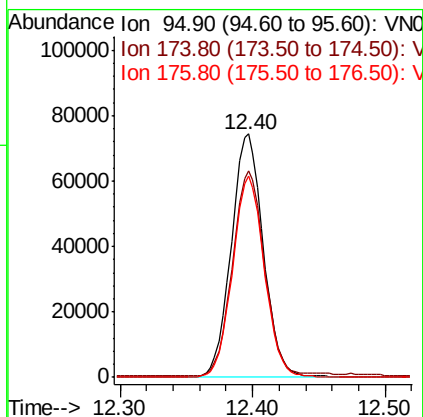
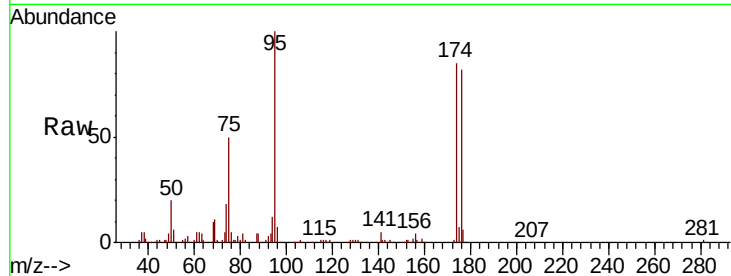




#62
4-Bromofluorobenzene
Concen: 49.559 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. 0.00 min
Lab File: VN060191.D
Acq: 21 Feb 2020 16:35

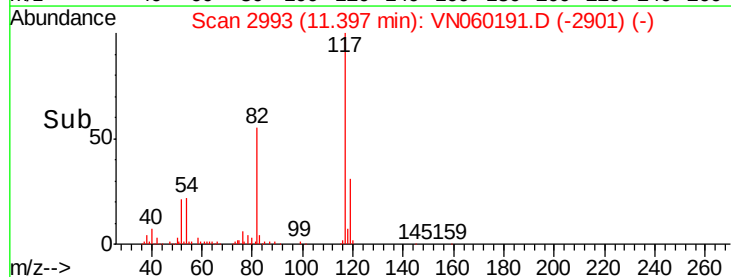
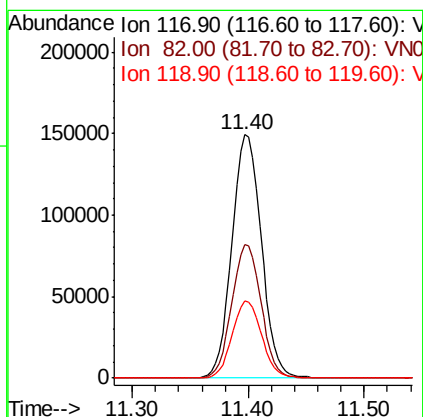
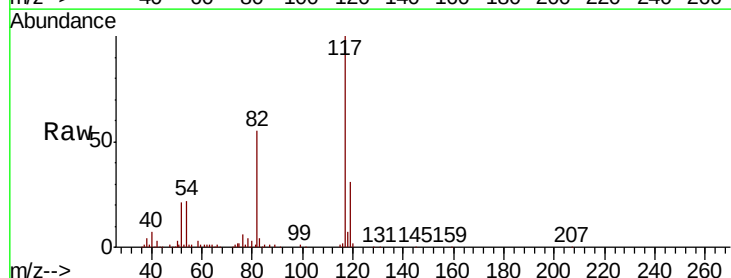
Instrument :
MSVOA_N
ClientSampled :

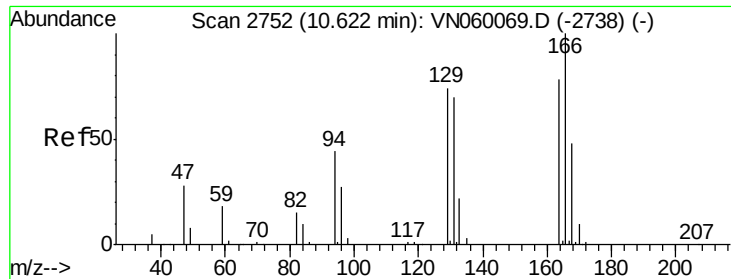
Tot Ion: 95 Resp: 124733
Ion Ratio Lower Upper
95 100
174 84.6 0.0 169.8
176 82.1 0.0 164.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2993
Delta R.T. -0.00 min
Lab File: VN060191.D
Acq: 21 Feb 2020 16:35

Tgt Ion: 117 Resp: 264063
Ion Ratio Lower Upper
117 100
82 54.7 43.4 65.0
119 31.5 25.8 38.6





#64

Tetrachloroethene

Concen: 143.351 ug/l

RT: 10.62 min Scan# 2751

Delta R.T. -0.00 min

Lab File: VN060191.D

Acq: 21 Feb 2020 16:35

Instrument :

MSVOA_N

ClientSampleId :

Tot Ion:164 Resp: 287759

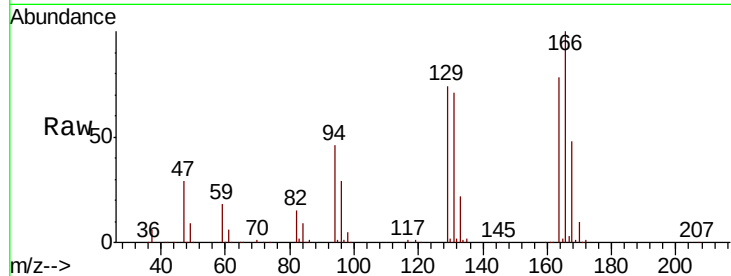
Ion Ratio Lower Upper

164 100

166 128.3 101.9 152.9

129 94.5 75.4 113.0

131 91.3 71.4 107.2

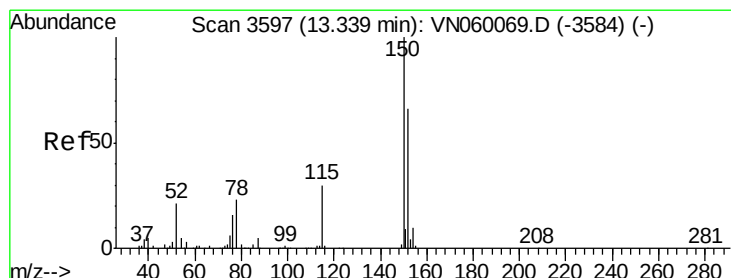
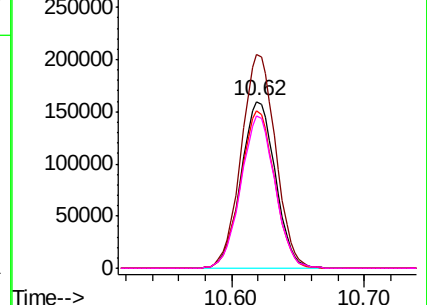
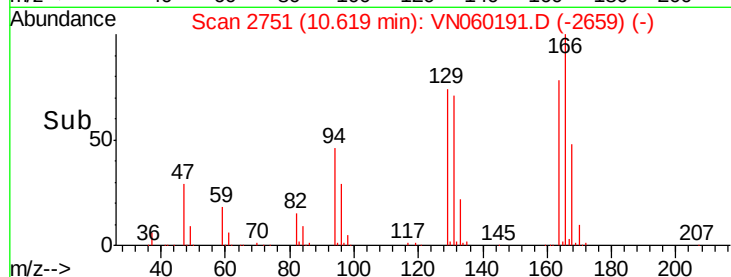


Abundance Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): 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: VN060191.D

Acq: 21 Feb 2020 16:35

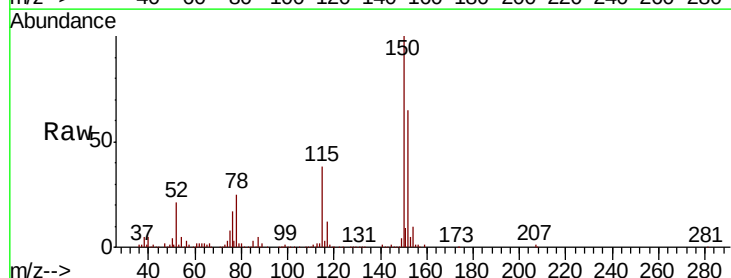
Tgt Ion:152 Resp: 120919

Ion Ratio Lower Upper

152 100

115 58.7 28.9 86.8

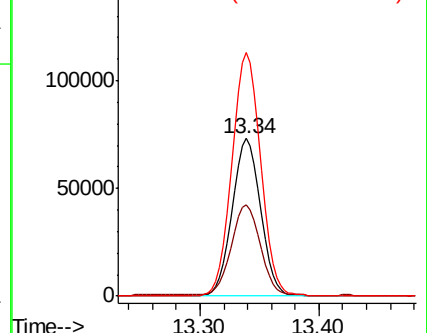
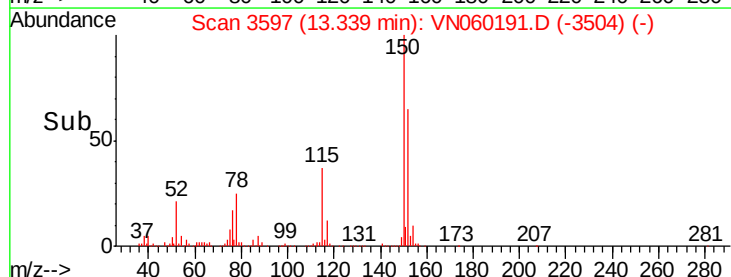
150 156.5 0.0 342.4

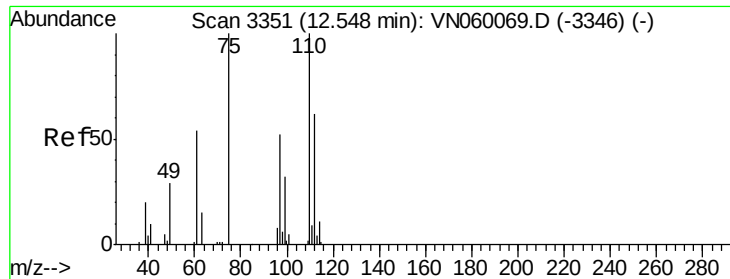


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 27.610 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN060191.D

Acq: 21 Feb 2020 16:35

Instrument :

MSVOA_N

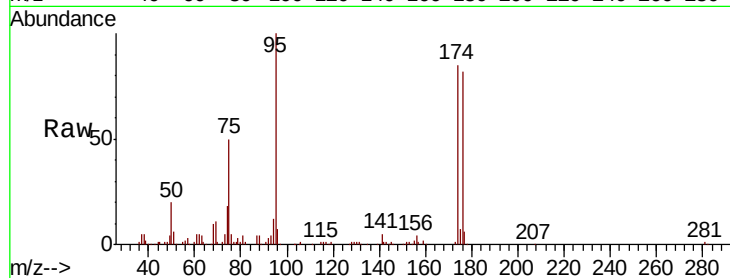
ClientSampled :

Tot Ion: 75 Resp: 63873

Ion Ratio Lower Upper

75 100

77 2.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN060069.D (-3346) (-)

Ion 77.00 (76.70 to 77.70): VN060069.D (-3346) (-)

12.40

40000

30000

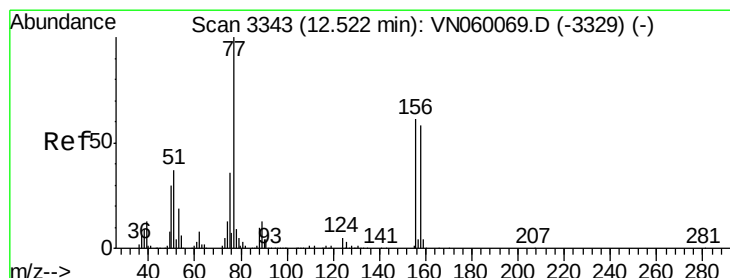
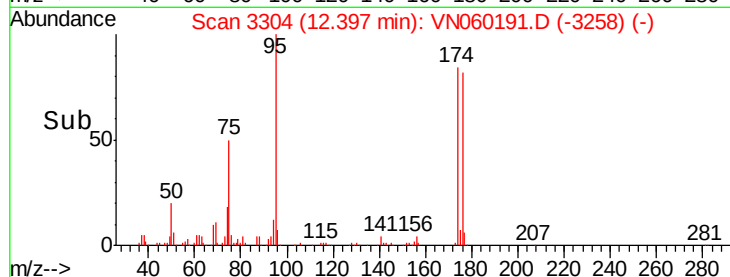
20000

10000

0

12.35 12.40 12.45

Time-->



#77

Bromobenzene

Concen: 10.169 ug/l

RT: 12.45 min Scan# 3322

Delta R.T. -0.07 min

Lab File: VN060191.D

Acq: 21 Feb 2020 16:35

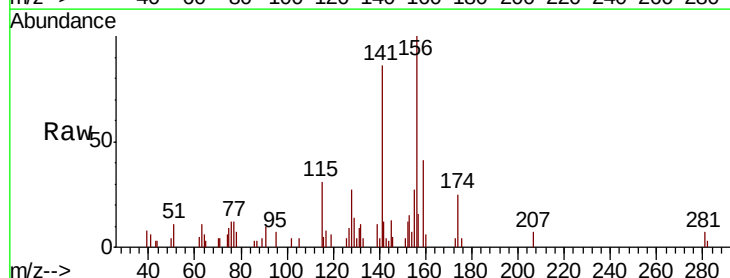
Tgt Ion: 156 Resp: 22788

Ion Ratio Lower Upper

156 100

77 0.7 98.7 296.1#

158 0.0 48.1 144.4#



Abundance Ion 155.80 (155.50 to 156.50): VN060069.D (-3329) (-)

Ion 77.00 (76.70 to 77.70): VN060069.D (-3329) (-)

Ion 157.80 (157.50 to 158.50): VN060069.D (-3329) (-)

12.45

6000

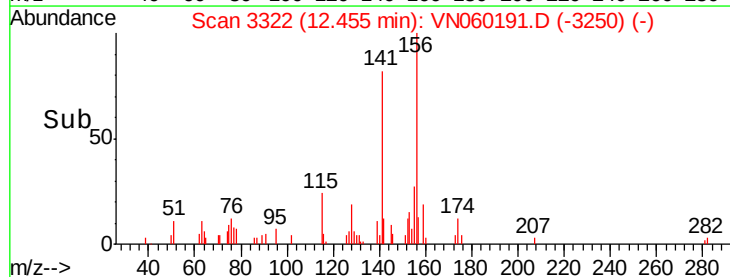
4000

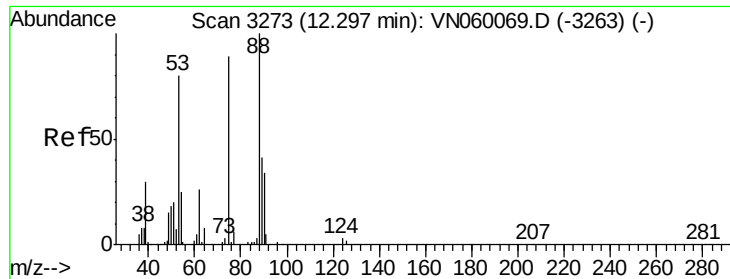
2000

0

12.30 12.40 12.50

Time-->

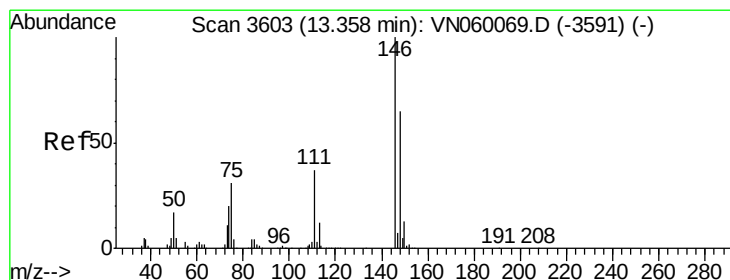
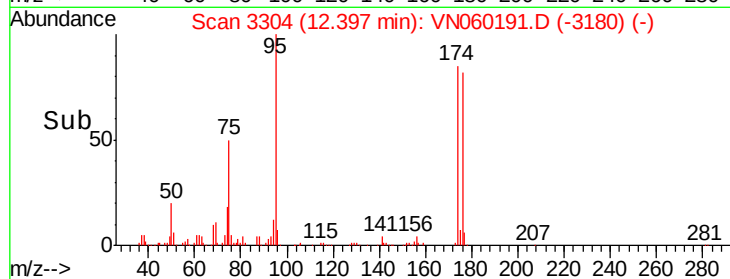
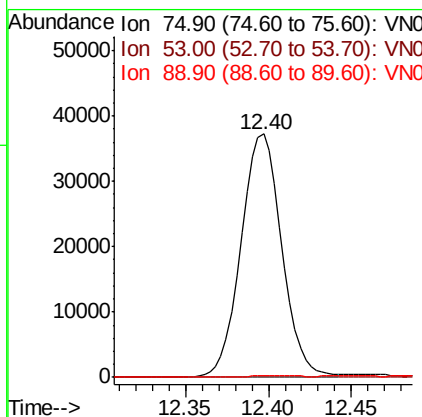
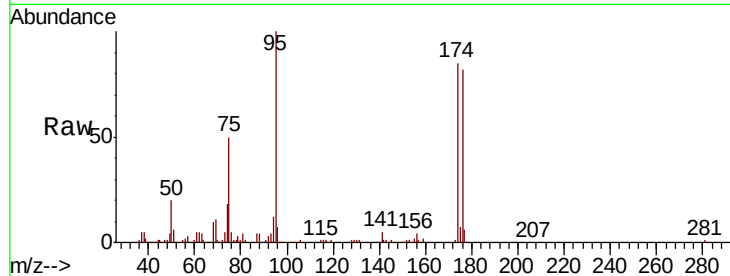




#81
trans-1,4-Dichloro-2-butene
Concen: 67.602 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. 0.10 min
Lab File: VN060191.D
Acq: 21 Feb 2020 16:35

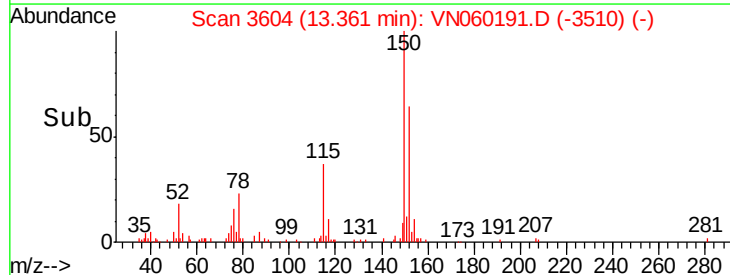
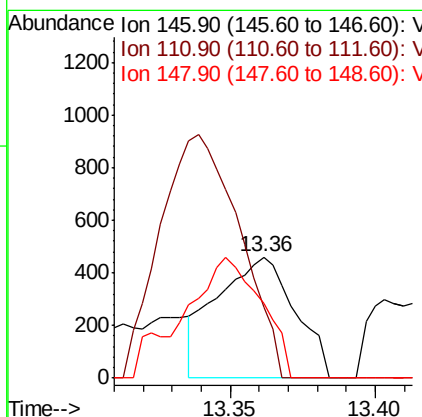
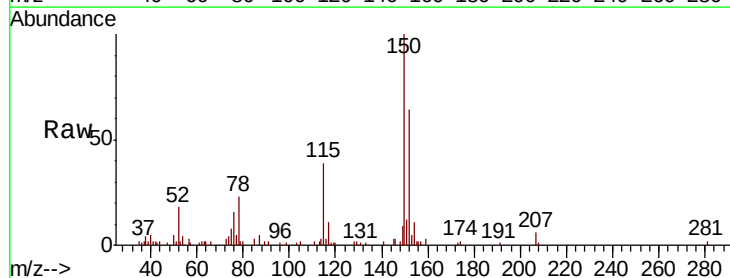
Instrument :
MSVOA_N
ClientSampled :

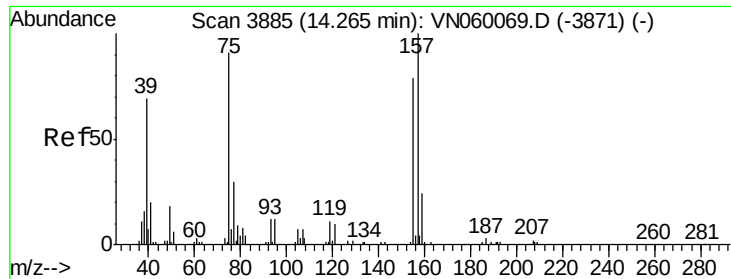
Tot Ion: 75 Resp: 63873
Ion Ratio Lower Upper
75 100
53 0.0 73.9 110.9#
89 0.7 37.0 55.4#



#88
1,4-Dichlorobenzene
Concen: 0.217 ug/l
RT: 13.36 min Scan# 3604
Delta R.T. 0.00 min
Lab File: VN060191.D
Acq: 21 Feb 2020 16:35

Tgt Ion: 146 Resp: 860
Ion Ratio Lower Upper
146 100
111 0.0 18.9 56.5#
148 0.0 32.0 96.0#

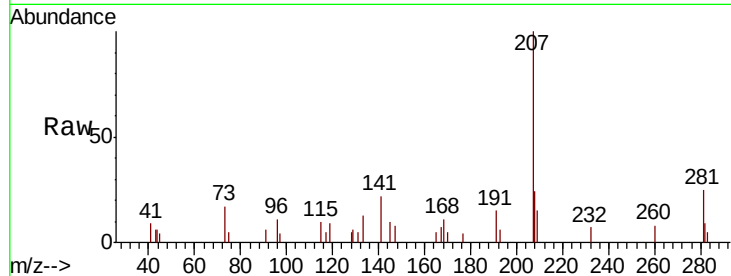




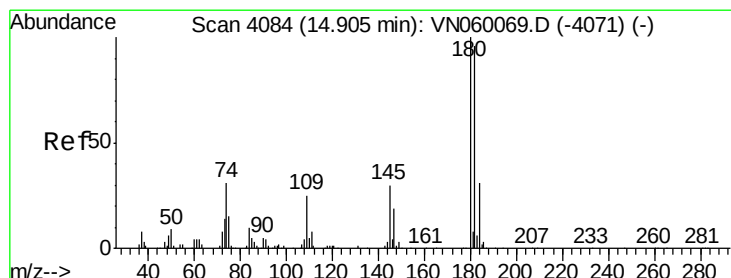
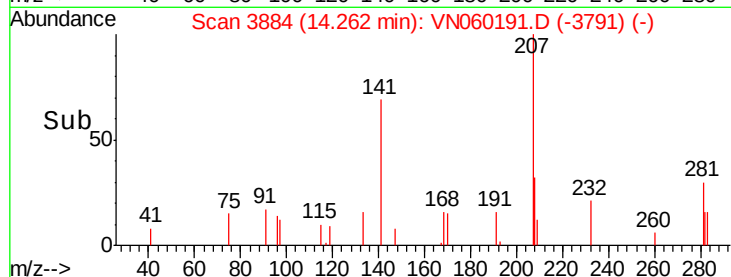
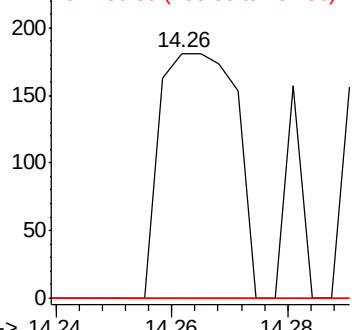
#92
 1,2-Dibromo-3-Chloropropane
 Concen: Below Cal
 RT: 14.26 min Scan# 3884
 Delta R.T. -0.00 min
 Lab File: VN060191.D
 Acq: 21 Feb 2020 16:35

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion: 75 Resp: 164
 Ion Ratio Lower Upper
 75 100
 155 0.0 43.0 129.0#
 157 0.0 54.9 164.5#

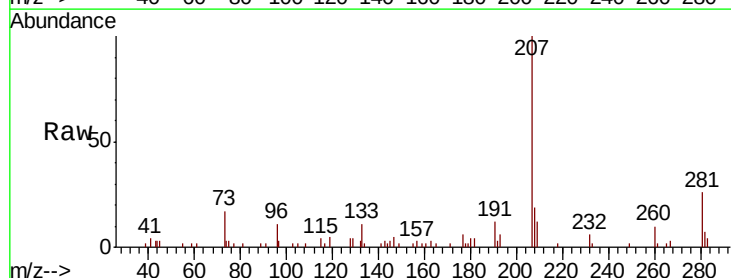


Abundance Ion 74.90 (74.60 to 75.60): VN
 Ion 154.80 (154.50 to 155.50): V
 Ion 156.80 (156.50 to 157.50): V

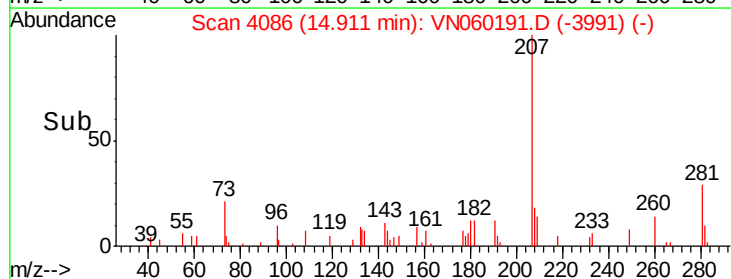
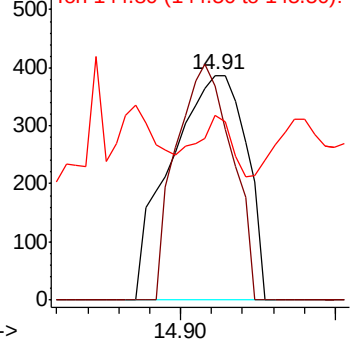


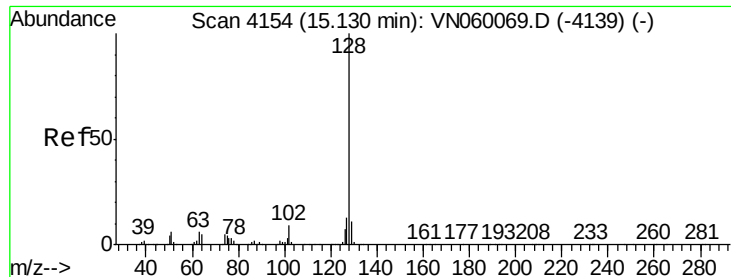
#93
 1,2,4-Trichlorobenzene
 Concen: 0.288 ug/l
 RT: 14.91 min Scan# 4086
 Delta R.T. 0.01 min
 Lab File: VN060191.D
 Acq: 21 Feb 2020 16:35

Tgt Ion: 180 Resp: 657
 Ion Ratio Lower Upper
 180 100
 182 77.2 47.9 143.8
 145 0.0 15.2 45.5#



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: 0.798 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN060191.D

Acq: 21 Feb 2020 16:35

Instrument :

MSVOA_N

ClientSampled :

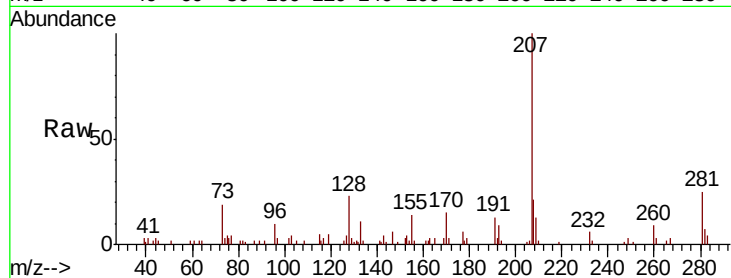
Tot Ion:128 Resp: 4914

Ion Ratio Lower Upper

128 100

127 17.8 10.3 15.5#

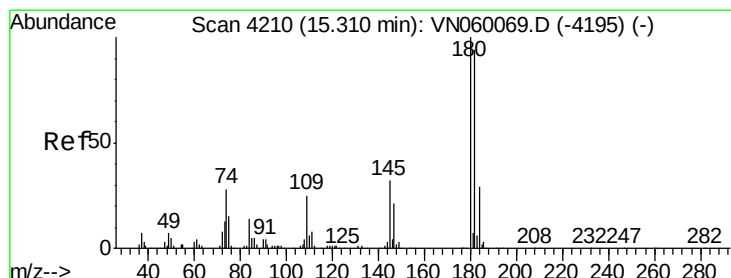
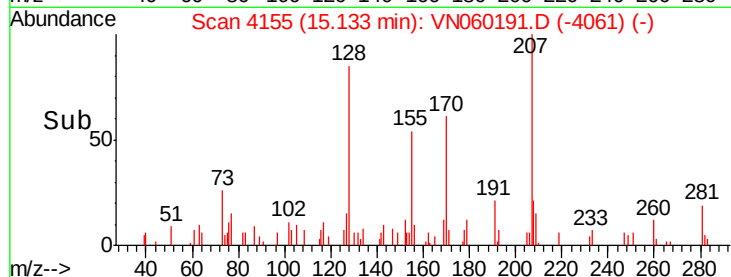
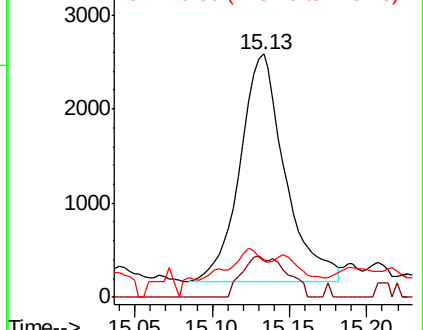
129 4.8 8.6 13.0#



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



#96

1,2,3-Trichlorobenzene

Concen: 0.332 ug/l

RT: 15.31 min Scan# 4211

Delta R.T. 0.00 min

Lab File: VN060191.D

Acq: 21 Feb 2020 16:35

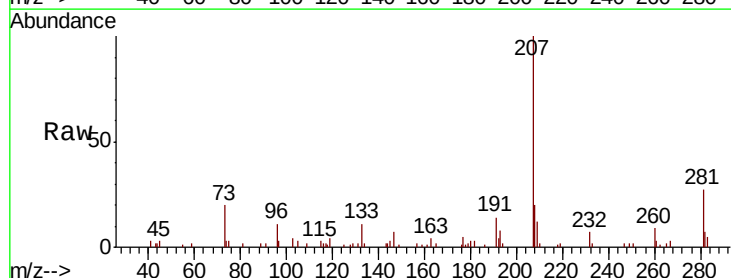
Tgt Ion:180 Resp: 753

Ion Ratio Lower Upper

180 100

182 77.7 47.5 142.5

145 23.4 16.1 48.3



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

