

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN101618\
 Data File : VN051891.D
 Acq On : 16 Oct 2018 13:13
 Operator : MD\SY
 Sample : J5198-12
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 13 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 CL-02-101218-A

Quant Time: Oct 17 02:24:19 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N101118W.M
 Quant Title : SW846 8260
 QLast Update : Fri Oct 12 09:51:20 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	811787	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1183975	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1042019	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	380512	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.03	65	438816	56.56	ug/l	0.00
Spiked Amount	50.000		Recovery	=	113.12%	
35) Dibromofluoromethane	7.59	113	436380	59.27	ug/l	0.00
Spiked Amount	50.000		Recovery	=	118.54%	
50) Toluene-d8	10.09	98	1602716	58.42	ug/l	0.00
Spiked Amount	50.000		Recovery	=	116.84%	
62) 4-Bromofluorobenzene	12.40	95	462476	48.83	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.66%	

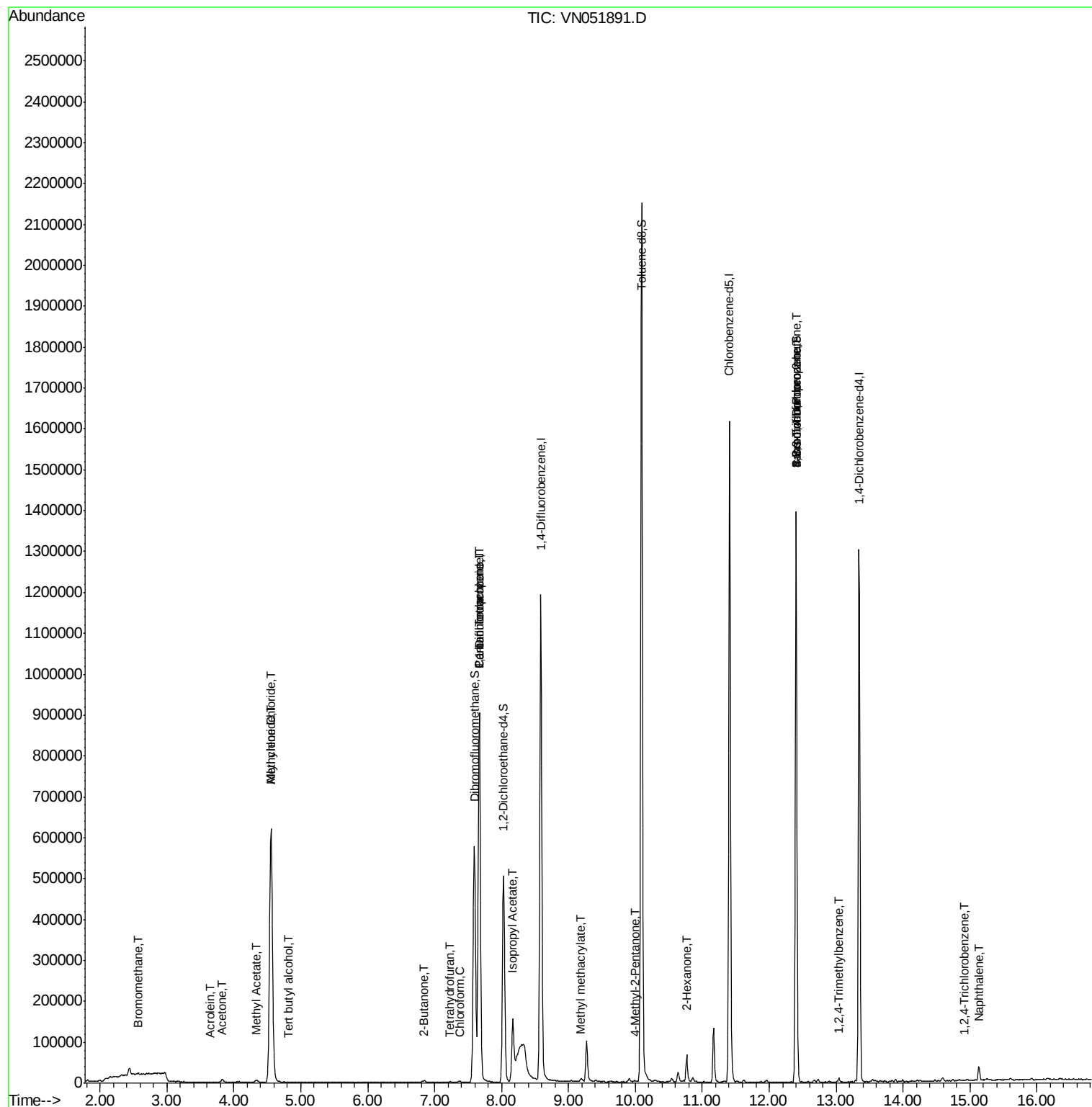
Target Compounds						Qvalue
5) Bromomethane	2.57	94	1857	0.251	ug/l	92
11) Tert butyl alcohol	4.81	59	138	0.242	ug/l #	72
13) Acrolein	3.63	56	32	15.992	ug/l #	14
14) Allyl chloride	4.56	41	11435	1.563	ug/l #	29
16) Acetone	3.83	43	12789	7.643	ug/l	96
18) Methyl Acetate	4.34	43	10566	1.350	ug/l	96
20) Methylene Chloride	4.55	84	516436	74.574	ug/l	89
25) 2-Butanone	6.84	43	3161	1.337	ug/l #	71
29) Tetrahydrofuran	7.22	42	974	0.691	ug/l #	92
30) Chloroform	7.37	83	3573	0.269	ug/l	93
31) Cyclohexane	7.66	56	12315	Below Cal	#	1
36) 1,1-Dichloropropene	7.67	75	50208	5.238	ug/l #	51
38) Carbon Tetrachloride	7.67	117	74753	6.728	ug/l #	16
43) Isopropyl Acetate	8.17	43	190966	19.099	ug/l	96
48) Methyl methacrylate	9.18	41	5141	1.173	ug/l #	20
51) 4-Methyl-2-Pentanone	9.98	43	1254	0.245	ug/l #	83
59) 2-Hexanone	10.77	43	9785	2.727	ug/l	64
71) Bromoform	12.40	173	3837	4.142	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	233559	49.747	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	233559	141.346	ug/l #	15
84) 1,2,4-Trimethylbenzene	13.04	105	6240	0.262	ug/l	95
93) 1,2,4-Trichlorobenzene	14.91	180	133	3.674	ug/l #	71
95) Naphthalene	15.13	128	31326	6.434	ug/l	99

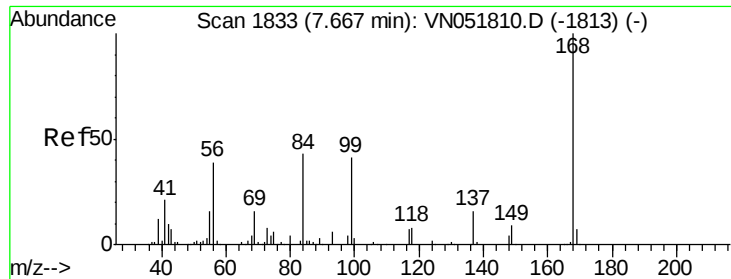
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Fri Oct 12 09:51:20 2018
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN051891.D

Acq: 16 Oct 2018 13:13

Instrument :

MSVOA_N

ClientSampleId :

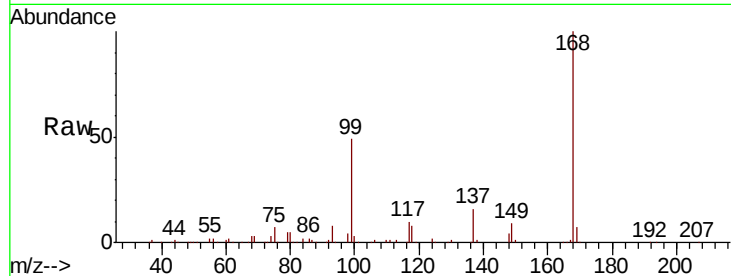
CL-02-101218-A

Tgt Ion:168 Resp: 811787

Ion Ratio Lower Upper

168 100

99 49.3 39.6 59.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.67

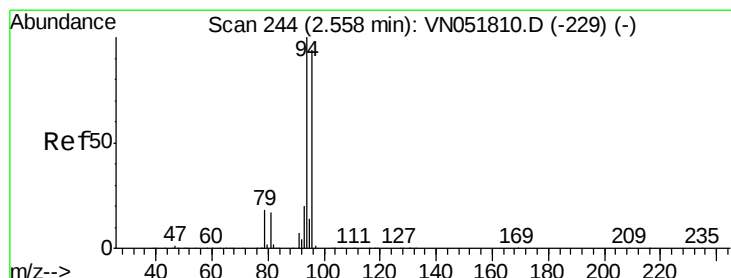
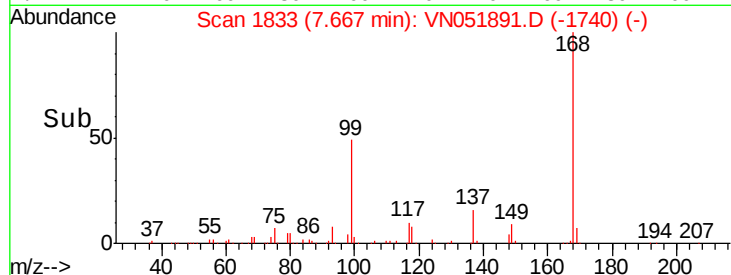
300000

200000

100000

0

Time-->



#5

Bromomethane

Concen: 0.251 ug/l

RT: 2.57 min Scan# 249

Delta R.T. 0.02 min

Lab File: VN051891.D

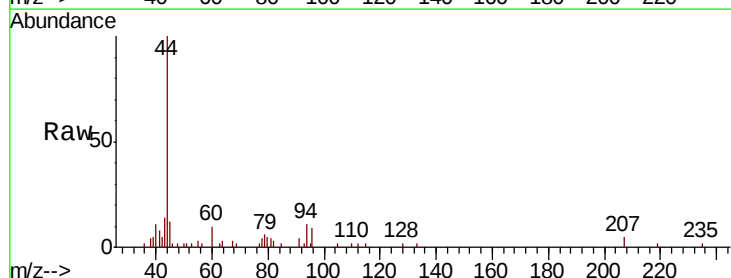
Acq: 16 Oct 2018 13:13

Tgt Ion: 94 Resp: 1857

Ion Ratio Lower Upper

94 100

96 103.0 76.2 114.2



Abundance Ion 93.90 (93.60 to 94.60): VNO

Ion 95.90 (95.60 to 96.60): VNO

2.57

1200

1000

800

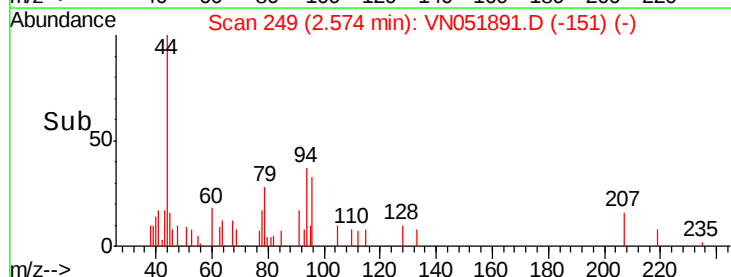
600

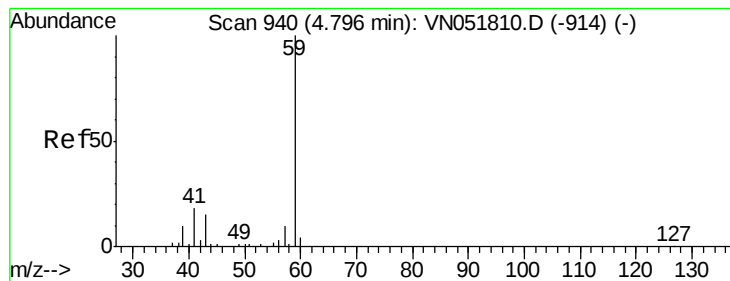
400

200

0

Time-->



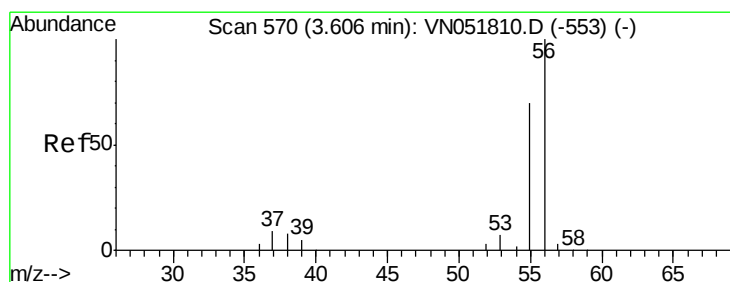
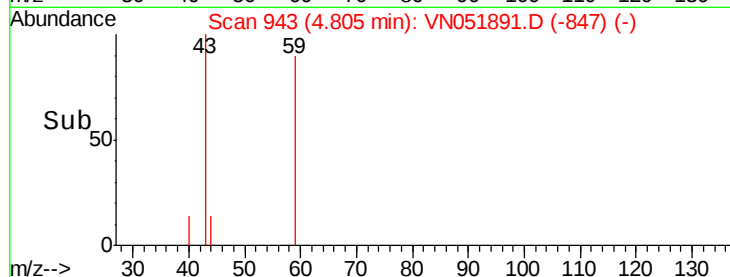
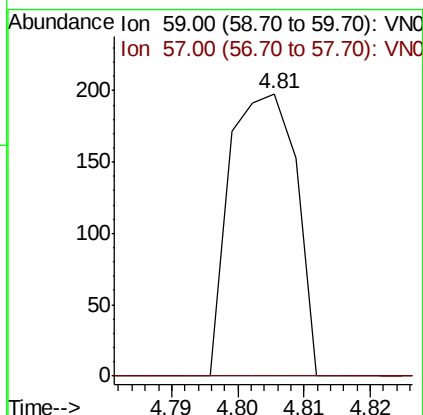
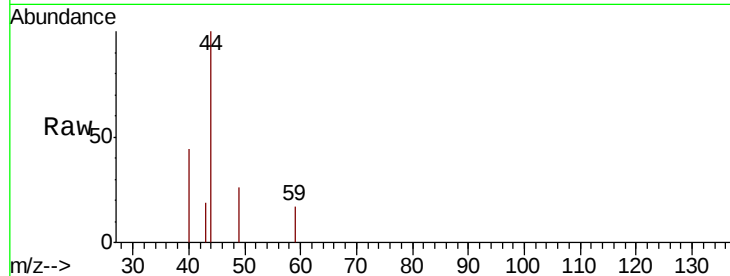


#11

Tert butyl alcohol
 Concen: 0.242 ug/l
 RT: 4.81 min Scan# 943
 Delta R.T. 0.01 min
 Lab File: VN051891.D
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Instrument :
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 ClientSampleId :
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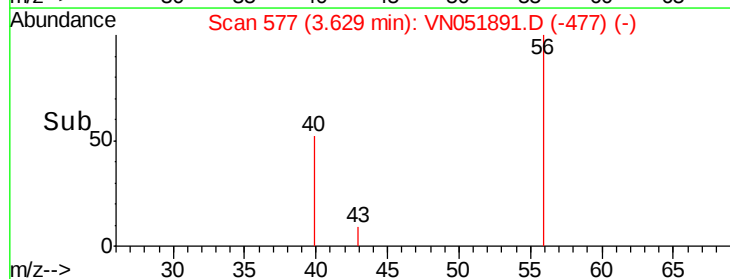
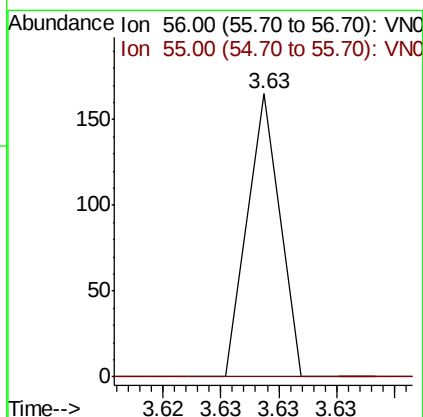
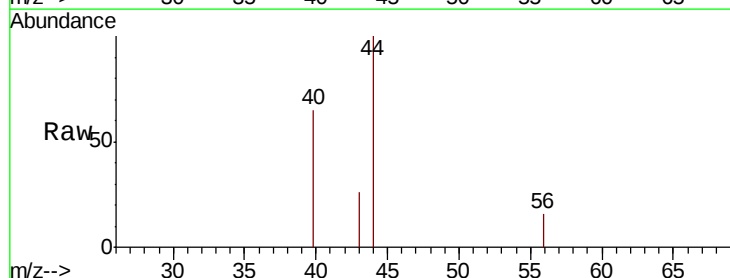
Tgt Ion: 59 Resp: 138
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.3 12.5#

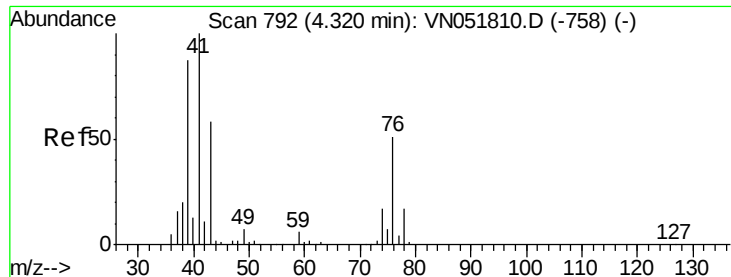


#13

Acrolein
 Concen: 15.992 ug/l
 RT: 3.63 min Scan# 577
 Delta R.T. 0.02 min
 Lab File: VN051891.D
 Acq: 16 Oct 2018 13:13

Tgt Ion: 56 Resp: 32
 Ion Ratio Lower Upper
 56 100
 55 0.0 57.7 86.5#





#14

Allyl chloride

Concen: 1.563 ug/l

RT: 4.56 min Scan# 866

Delta R.T. 0.24 min

Lab File: VN051891.D

Acq: 16 Oct 2018 13:13

Instrument :

MSVOA_N

ClientSampleId :

CL-02-101218-A

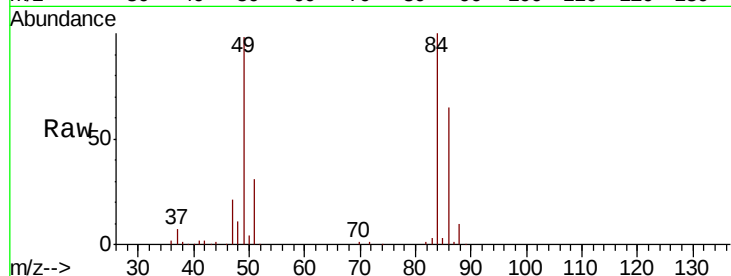
Tgt Ion: 41 Resp: 11435

Ion Ratio Lower Upper

41 100

39 3.7 50.2 75.2#

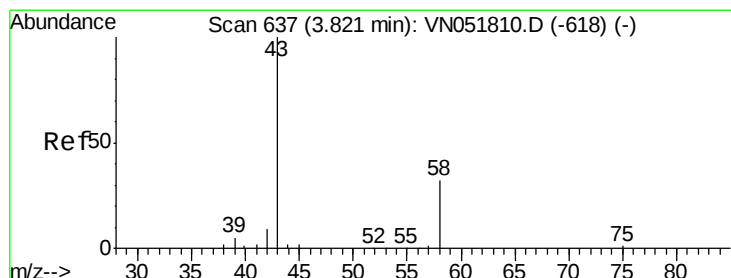
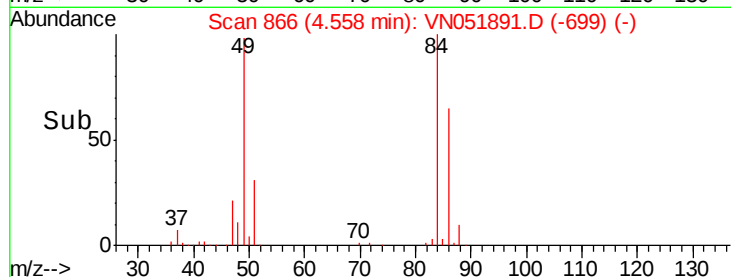
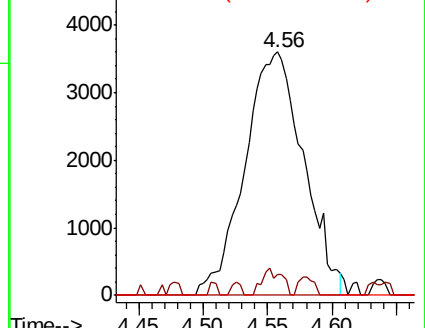
76 0.0 29.8 44.8#



Abundance Ion 41.00 (40.70 to 41.70): VN051891.D (-866) (-)

Ion 39.00 (38.70 to 39.70): VN051891.D (-866) (-)

Ion 75.90 (75.60 to 76.60): VN051891.D (-866) (-)



#16

Acetone

Concen: 7.643 ug/l

RT: 3.83 min Scan# 639

Delta R.T. 0.01 min

Lab File: VN051891.D

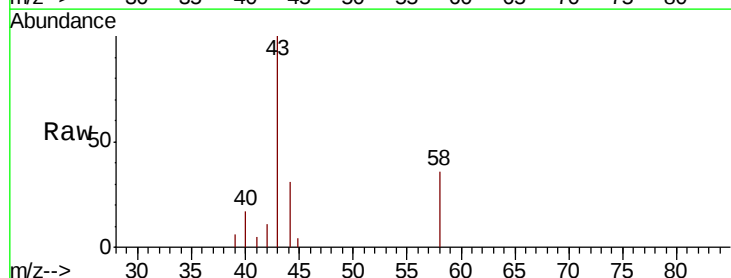
Acq: 16 Oct 2018 13:13

Tgt Ion: 43 Resp: 12789

Ion Ratio Lower Upper

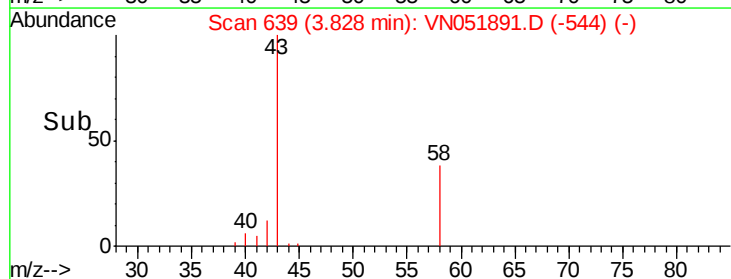
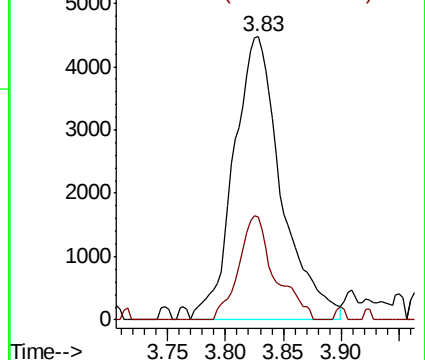
43 100

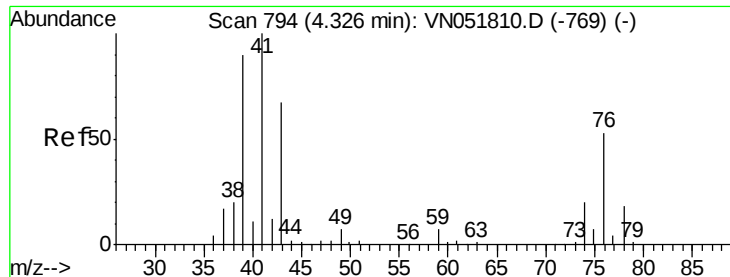
58 36.2 27.2 40.8



Abundance Ion 43.00 (42.70 to 43.70): VN051891.D (-639) (-)

Ion 58.00 (57.70 to 58.70): VN051891.D (-639) (-)

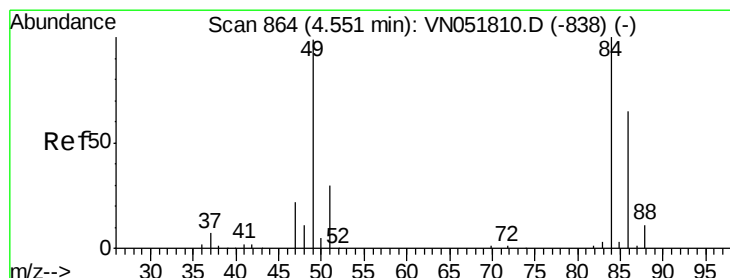
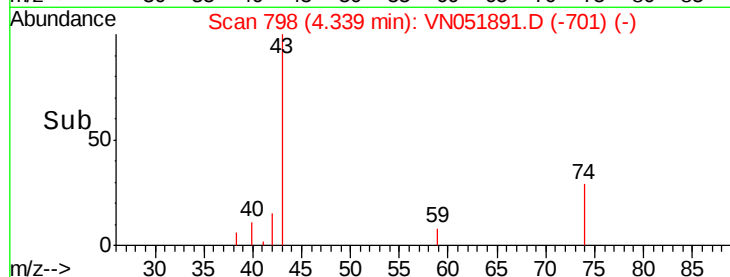
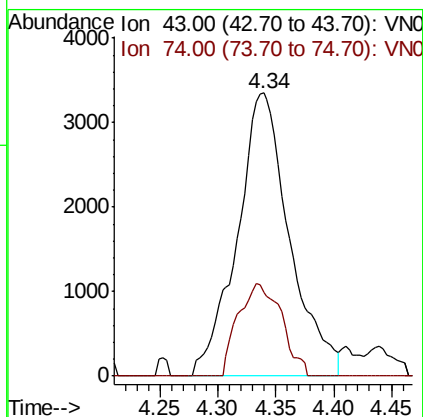
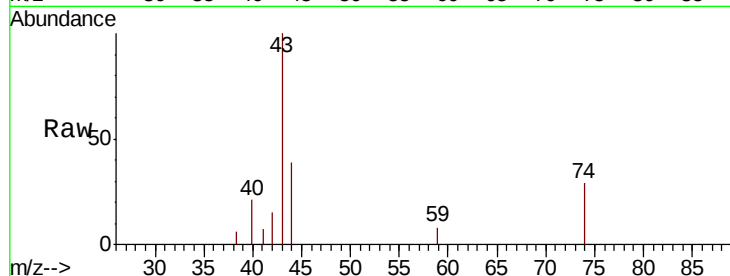




#18
Methyl Acetate
Concen: 1.350 ug/l
RT: 4.34 min Scan# 798
Delta R.T. 0.01 min
Lab File: VN051891.D
Acq: 16 Oct 2018 13:13

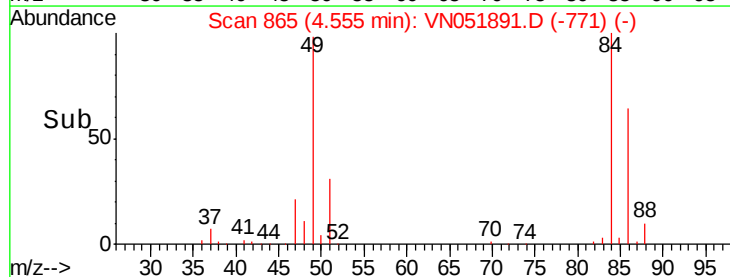
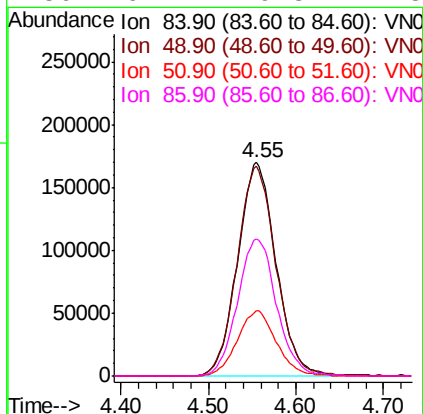
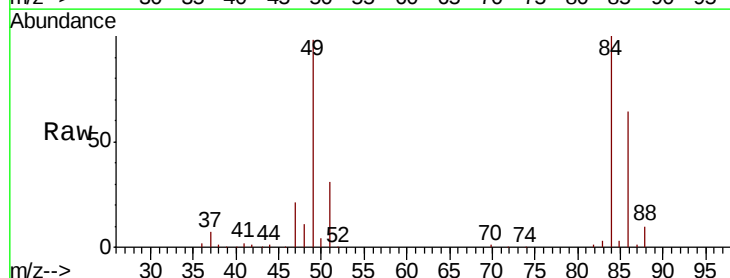
Instrument :
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CL-02-101218-A

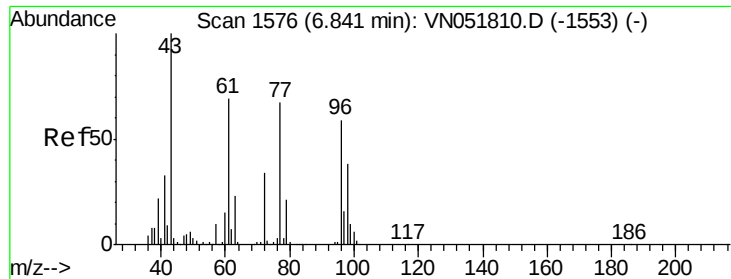
Tgt Ion: 43 Resp: 10566
Ion Ratio Lower Upper
43 100
74 26.8 19.8 29.8



#20
Methylene Chloride
Concen: 74.574 ug/l
RT: 4.55 min Scan# 865
Delta R.T. 0.00 min
Lab File: VN051891.D
Acq: 16 Oct 2018 13:13

Tgt Ion: 84 Resp: 516436
Ion Ratio Lower Upper
84 100
49 98.2 93.2 139.8
51 30.8 29.0 43.6
86 64.4 49.8 74.8

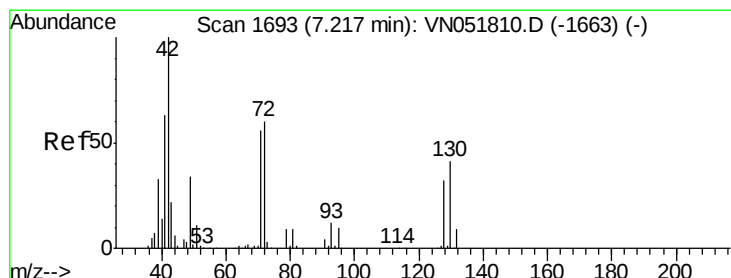
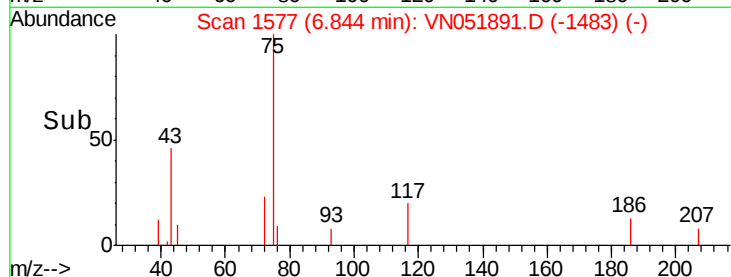
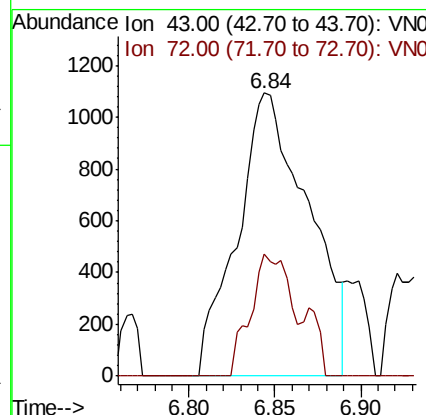
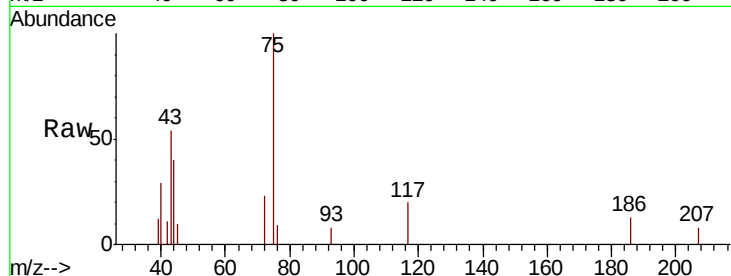




#25
 2-Butanone
 Concen: 1.337 ug/l
 RT: 6.84 min Scan# 1577
 Delta R.T. 0.00 min
 Lab File: VN051891.D
 Acq: 16 Oct 2018 13:13

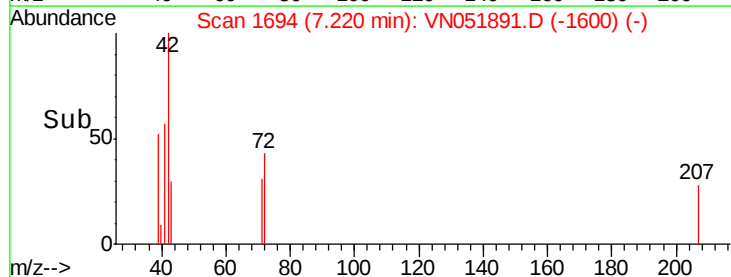
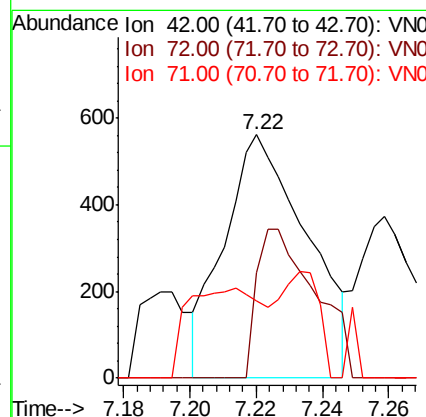
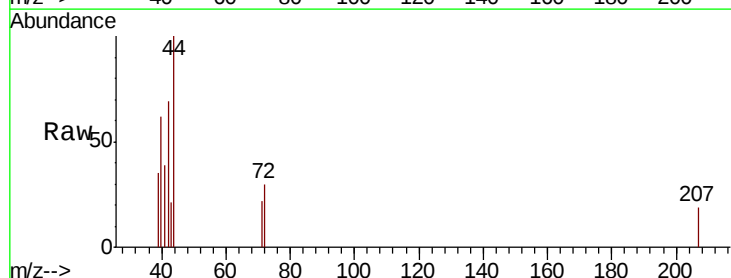
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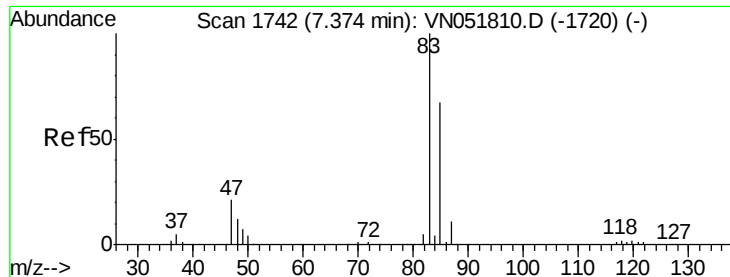
Tgt Ion: 43 Resp: 3161
 Ion Ratio Lower Upper
 43 100
 72 43.3 22.3 33.5#



#29
 Tetrahydrofuran
 Concen: 0.691 ug/l
 RT: 7.22 min Scan# 1694
 Delta R.T. 0.00 min
 Lab File: VN051891.D
 Acq: 16 Oct 2018 13:13

Tgt Ion: 42 Resp: 974
 Ion Ratio Lower Upper
 42 100
 72 43.0 35.5 53.3
 71 33.3 33.7 50.5#

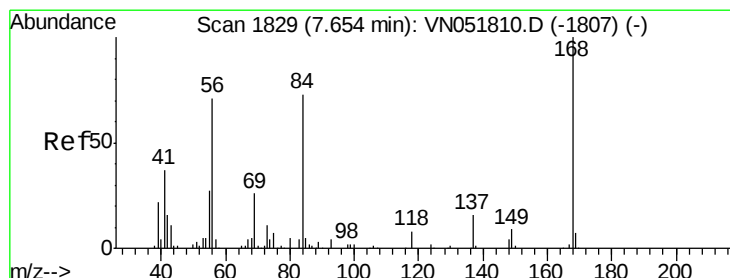
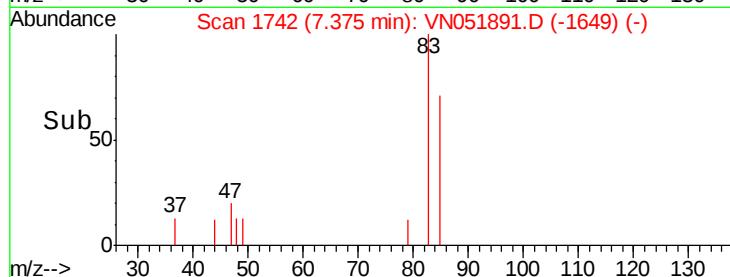
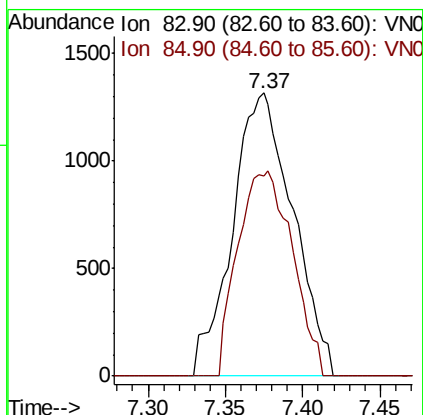
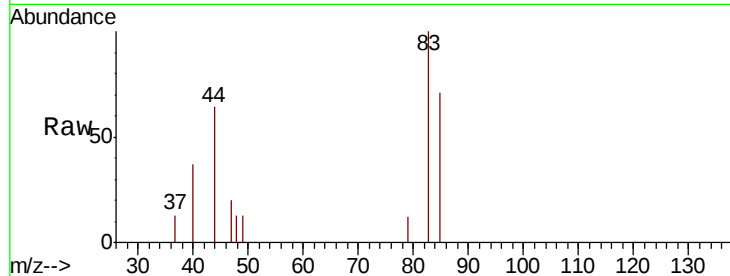




#30
Chloroform
Concen: 0.269 ug/l
RT: 7.37 min Scan# 1742
Delta R.T. 0.00 min
Lab File: VN051891.D
Acq: 16 Oct 2018 13:13

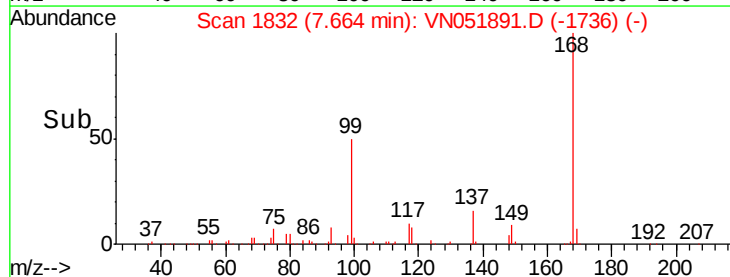
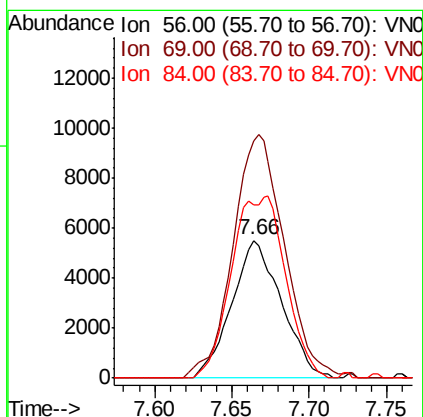
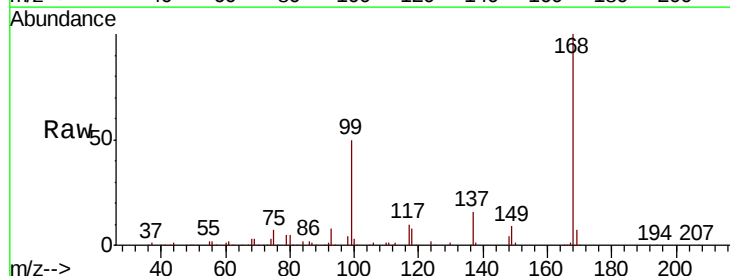
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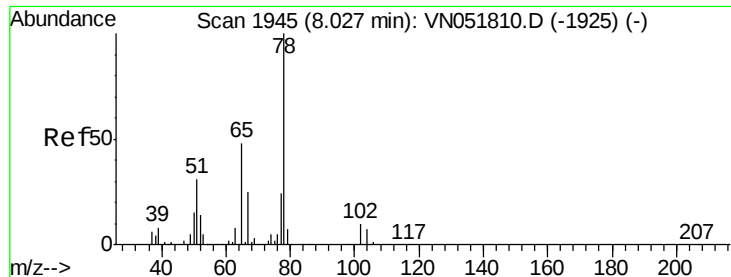
Tgt Ion: 83 Resp: 3573
Ion Ratio Lower Upper
83 100
85 70.7 52.2 78.4



#31
Cyclohexane
Concen: Below Cal
RT: 7.66 min Scan# 1832
Delta R.T. 0.01 min
Lab File: VN051891.D
Acq: 16 Oct 2018 13:13

Tgt Ion: 56 Resp: 12315
Ion Ratio Lower Upper
56 100
69 169.8 26.2 39.4#
84 126.2 68.3 102.5#

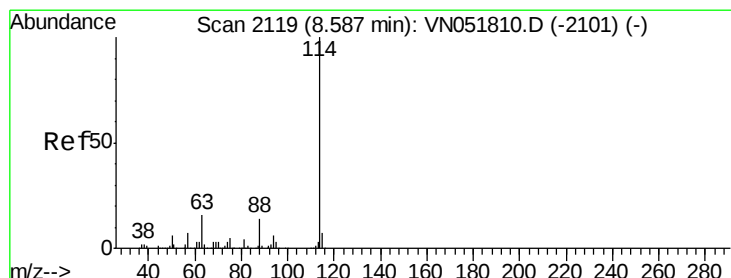
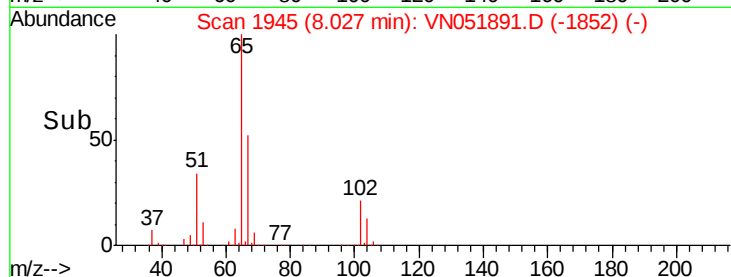
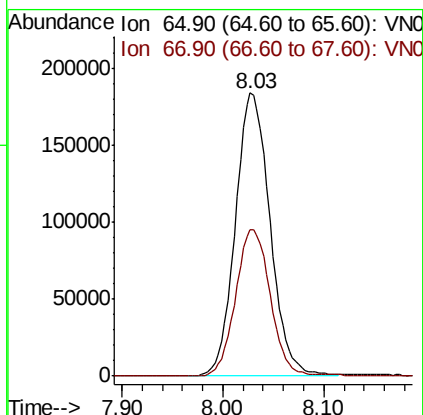
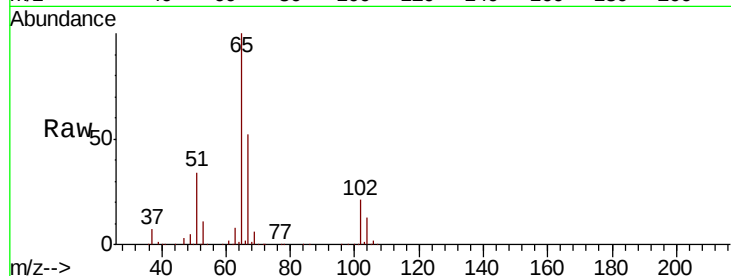




#33
 1,2-Dichloroethane-d4
 Concen: Below ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN051891.D
 Acq: 16 Oct 2018 13:13

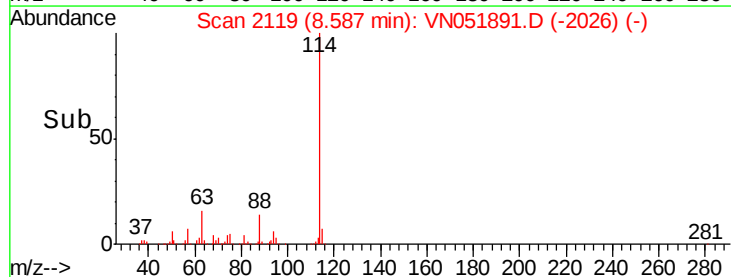
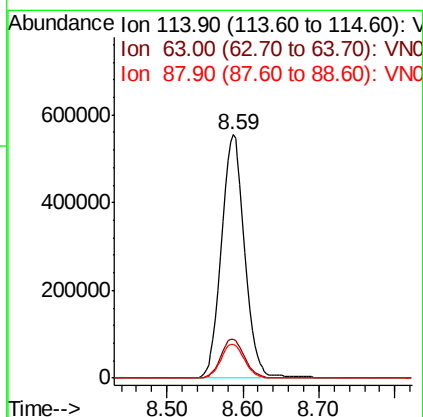
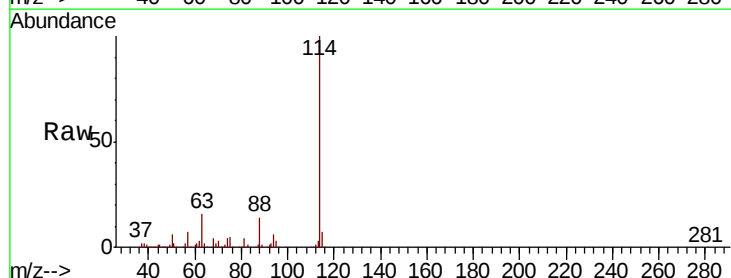
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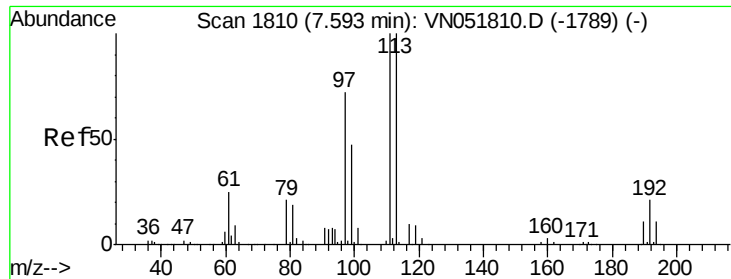
Tgt Ion: 65 Resp: 438816
 Ion Ratio Lower Upper
 65 100
 67 51.6 0.0 110.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN051891.D
 Acq: 16 Oct 2018 13:13

Tgt Ion: 114 Resp: 1183975
 Ion Ratio Lower Upper
 114 100
 63 15.9 0.0 38.6
 88 13.9 0.0 30.6

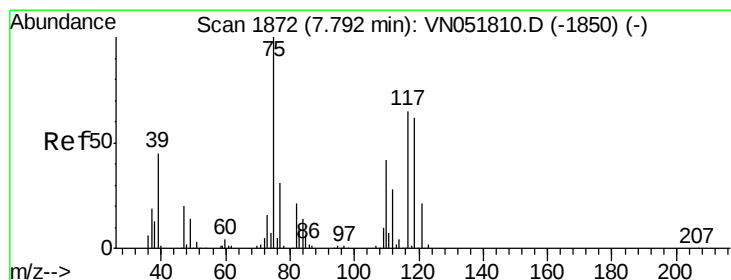
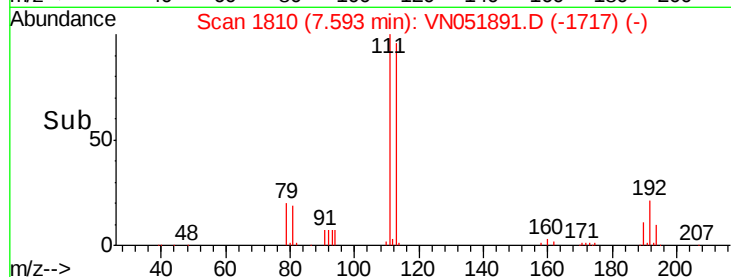
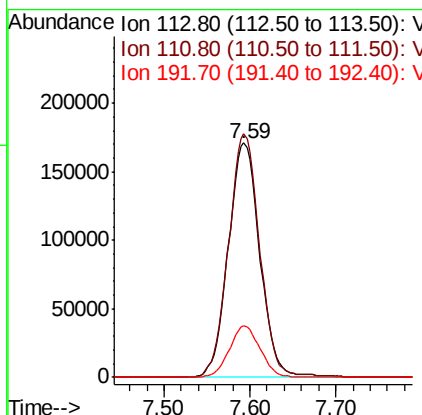
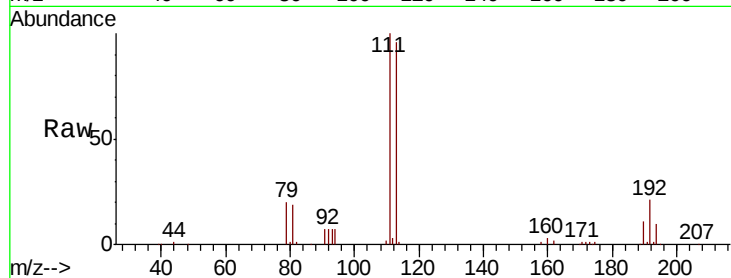




#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN051891.D
 Acq: 16 Oct 2018 13:13

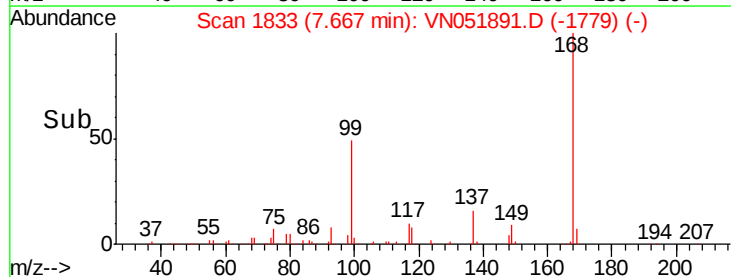
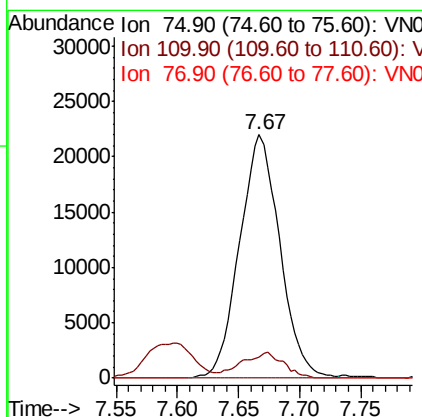
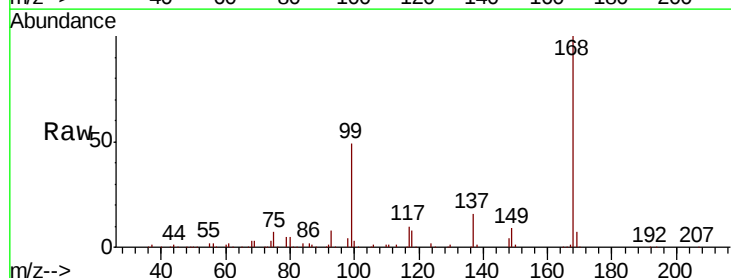
Instrument :
 MSVOA_N
 ClientSampleId :
 CL-02-101218-A

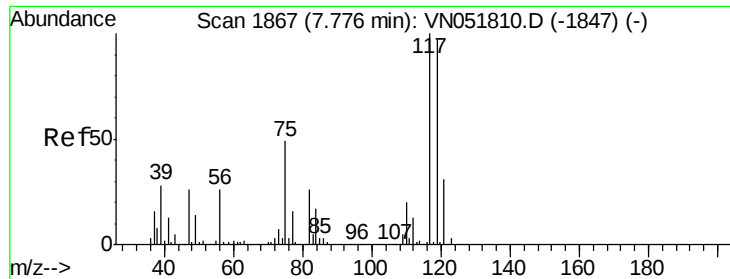
Tgt Ion: 113 Resp: 436380
 Ion Ratio Lower Upper
 113 100
 111 102.5 82.6 123.8
 192 21.4 18.0 27.0



#36
 1,1-Dichloropropene
 Concen: 5.238 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.13 min
 Lab File: VN051891.D
 Acq: 16 Oct 2018 13:13

Tgt Ion: 75 Resp: 50208
 Ion Ratio Lower Upper
 75 100
 110 11.1 18.1 54.4#
 77 0.0 24.8 37.2#

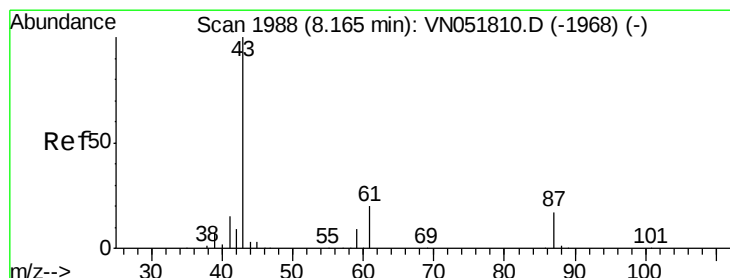
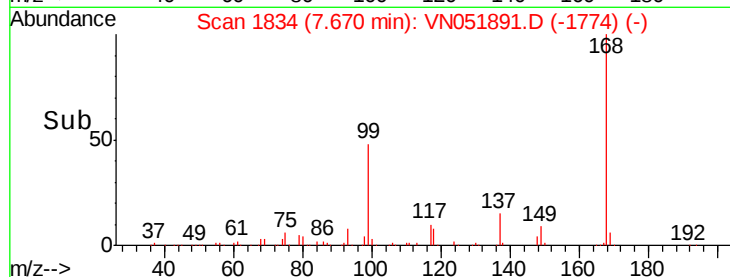
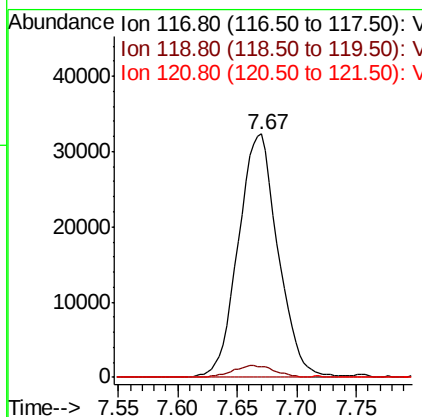
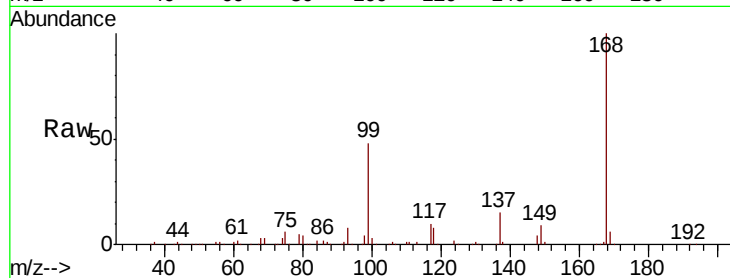




#38
Carbon Tetrachloride
Concen: 6.728 ug/l
RT: 7.67 min Scan# 1834
Delta R.T. -0.11 min
Lab File: VN051891.D
Acq: 16 Oct 2018 13:13

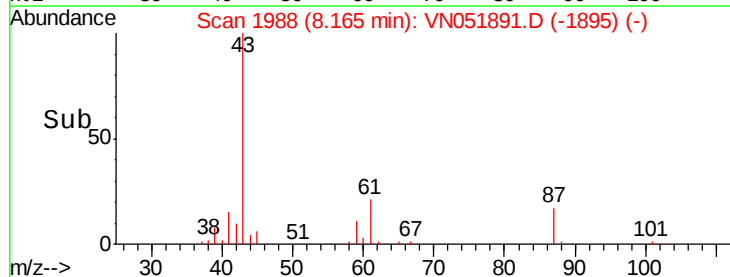
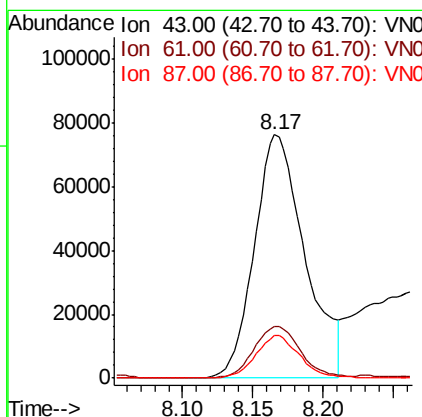
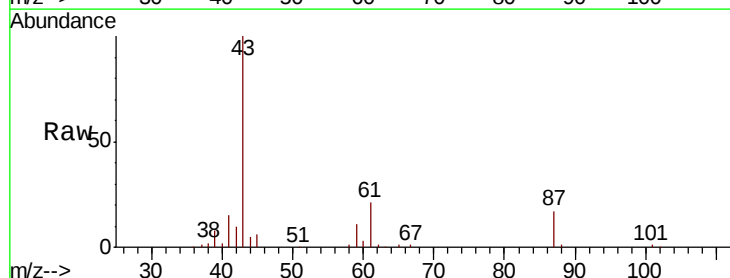
Instrument :
MSVOA_N
ClientSampleId :
CL-02-101218-A

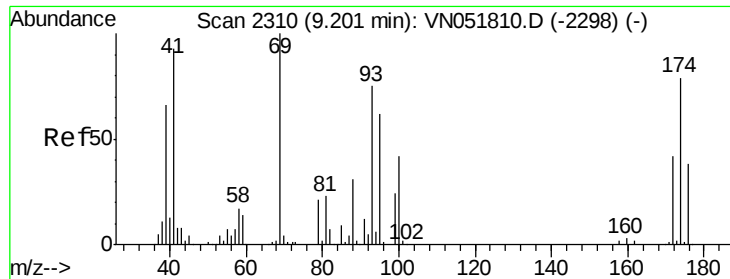
Tgt Ion:117 Resp: 74753
Ion Ratio Lower Upper
117 100
119 4.4 76.3 114.5#
121 0.0 24.6 36.8#



#43
Isopropyl Acetate
Concen: 19.099 ug/l
RT: 8.17 min Scan# 1988
Delta R.T. 0.00 min
Lab File: VN051891.D
Acq: 16 Oct 2018 13:13

Tgt Ion: 43 Resp: 190966
Ion Ratio Lower Upper
43 100
61 19.6 17.5 26.3
87 15.2 11.3 16.9

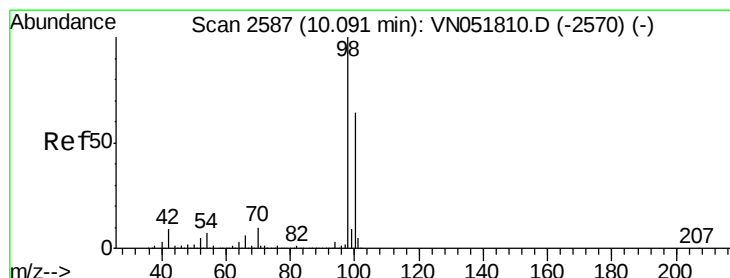
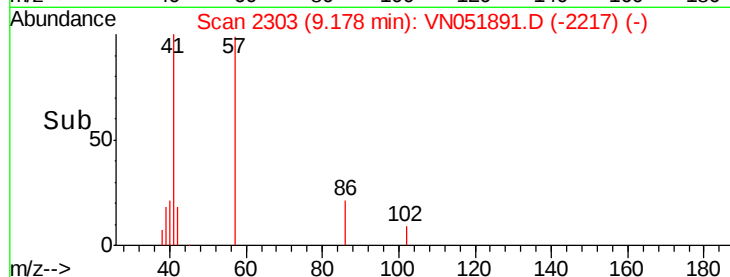
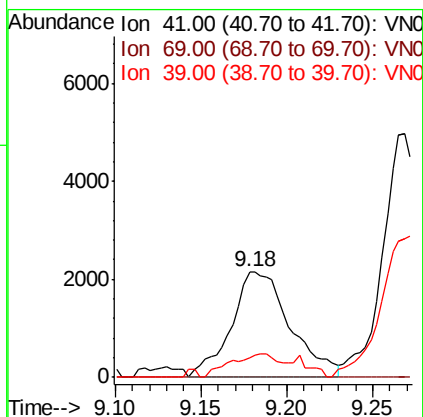
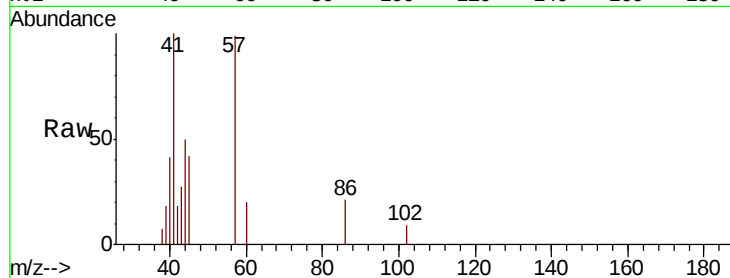




#48
Methyl methacrylate
Concen: 1.173 ug/l
RT: 9.18 min Scan# 2303
Delta R.T. -0.02 min
Lab File: VN051891.D
Acq: 16 Oct 2018 13:13

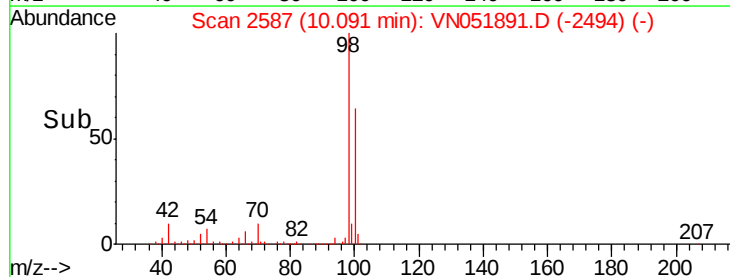
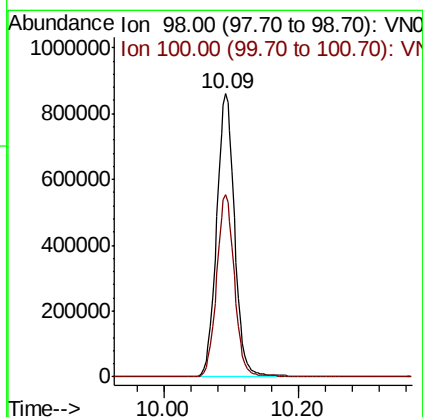
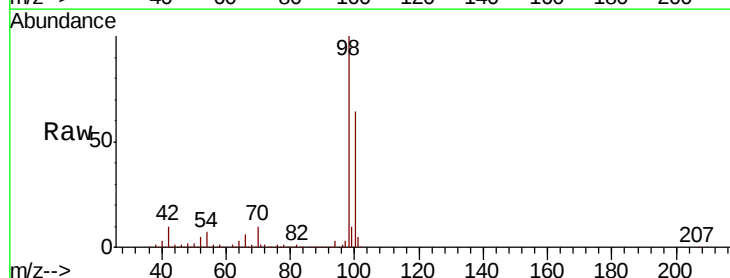
Instrument :
MSVOA_N
ClientSampleId :
CL-02-101218-A

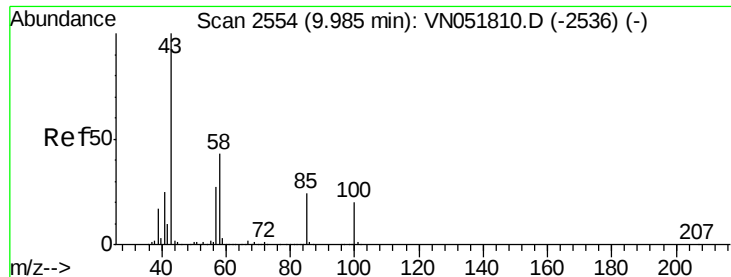
Tgt Ion: 41 Resp: 5141
Ion Ratio Lower Upper
41 100
69 0.0 74.7 112.1#
39 17.7 42.2 63.2#



#50
Toluene-d8
Concen: N.D. ug/l
RT: 10.09 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN051891.D
Acq: 16 Oct 2018 13:13

Tgt Ion: 98 Resp: 1602716
Ion Ratio Lower Upper
98 100
100 63.9 51.5 77.3

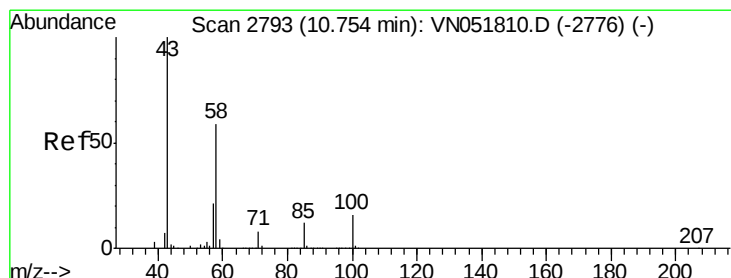
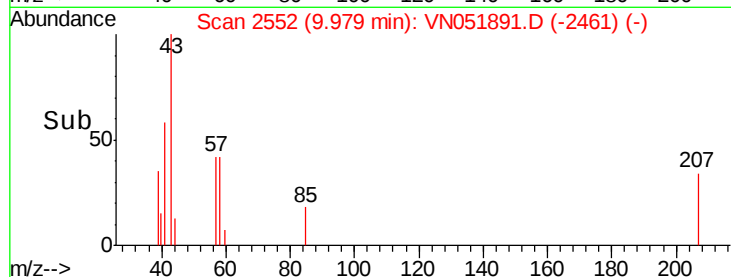
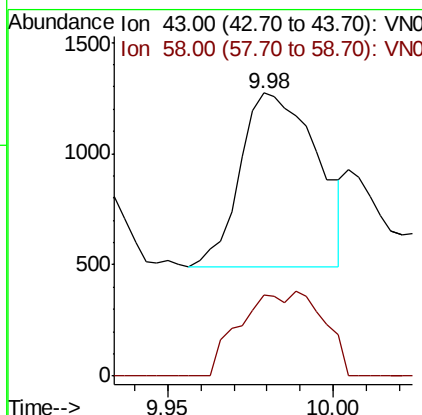
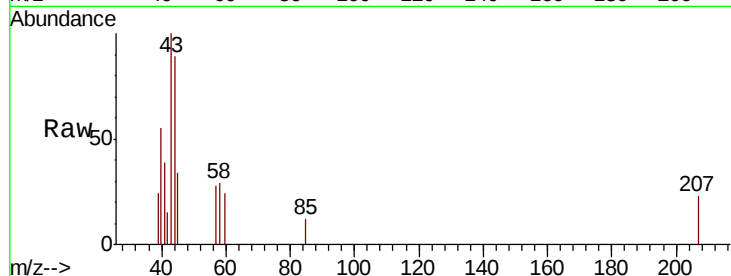




#51
 4-Methyl-2-Pentanone
 Concen: 0.245 ug/l
 RT: 9.98 min Scan# 2552
 Delta R.T. -0.01 min
 Lab File: VN051891.D
 Acq: 16 Oct 2018 13:13

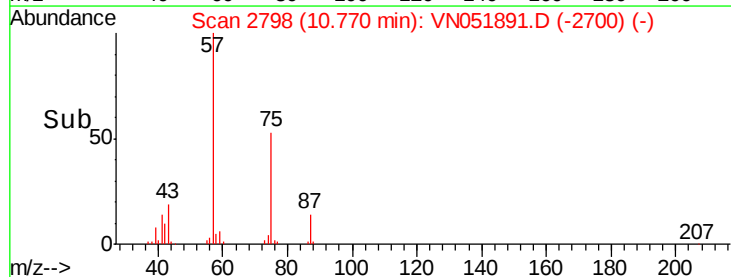
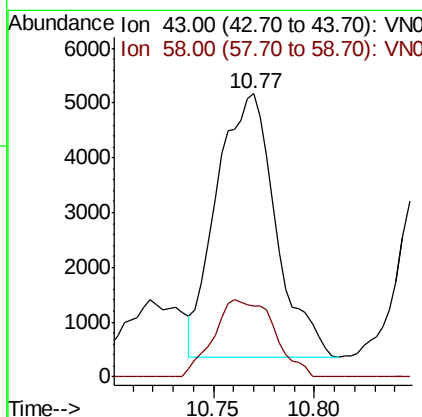
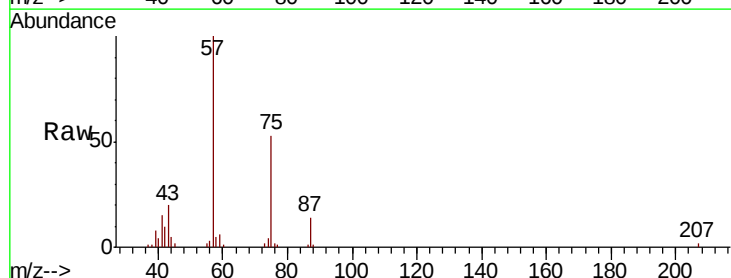
Instrument :
 MSVOA_N
 ClientSampleId :
 CL-02-101218-A

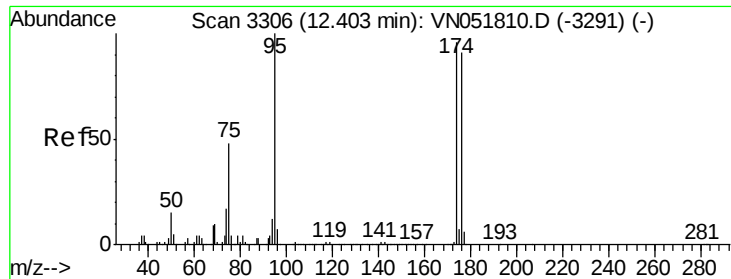
Tgt Ion: 43 Resp: 1254
 Ion Ratio Lower Upper
 43 100
 58 30.1 32.4 48.6#



#59
 2-Hexanone
 Concen: 2.727 ug/l
 RT: 10.77 min Scan# 2798
 Delta R.T. 0.02 min
 Lab File: VN051891.D
 Acq: 16 Oct 2018 13:13

Tgt Ion: 43 Resp: 9785
 Ion Ratio Lower Upper
 43 100
 58 30.1 28.3 85.0





#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.00 min

Lab File: VN051891.D

Acq: 16 Oct 2018 13:13

Instrument :

MSVOA_N

ClientSampleId :

CL-02-101218-A

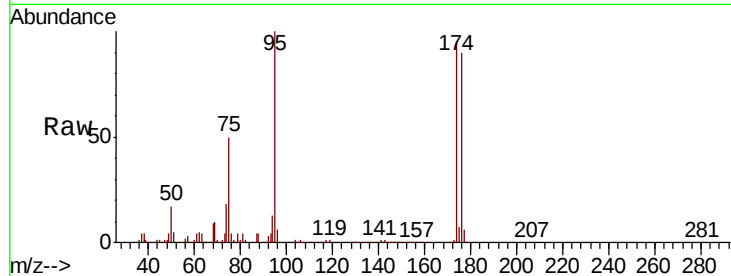
Tgt Ion: 95 Resp: 462476

Ion Ratio Lower Upper

95 100

174 96.1 0.0 183.0

176 92.7 0.0 178.8

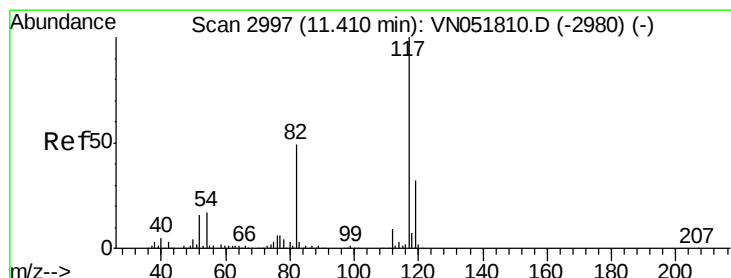
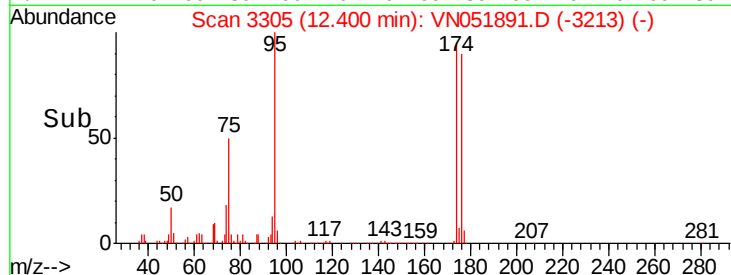


Abundance Ion 94.90 (94.60 to 95.60): VN051810.D (-3291) (-)

Ion 173.80 (173.50 to 174.50): VN051810.D (-3291) (-)

Ion 175.80 (175.50 to 176.50): VN051810.D (-3291) (-)

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. -0.00 min

Lab File: VN051891.D

Acq: 16 Oct 2018 13:13

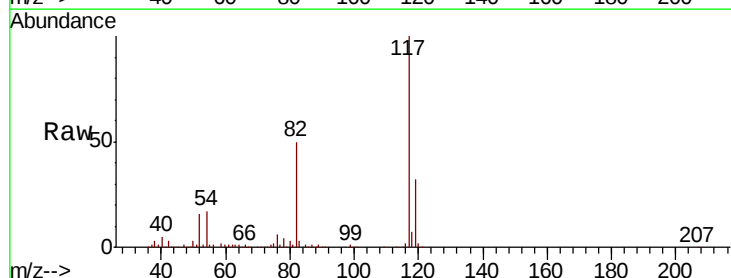
Tgt Ion: 117 Resp: 1042019

Ion Ratio Lower Upper

117 100

82 49.7 42.6 64.0

119 31.8 25.8 38.6

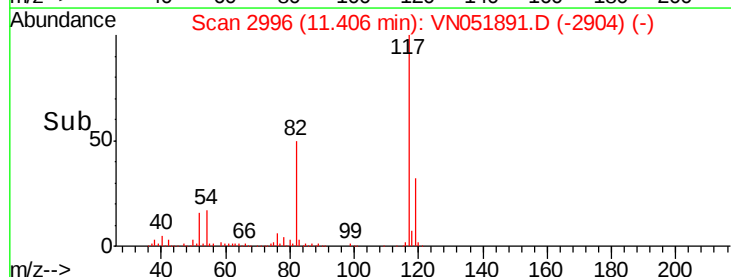


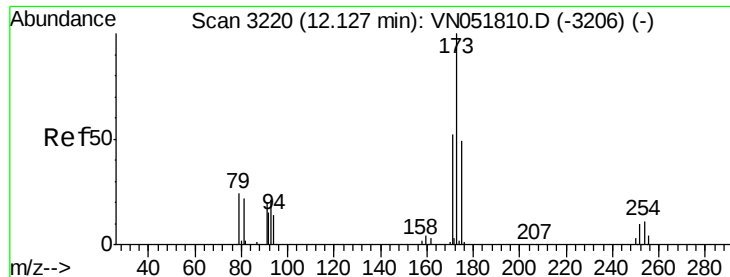
Abundance Ion 116.90 (116.60 to 117.60): VN051810.D (-2980) (-)

Ion 82.00 (81.70 to 82.70): VN051810.D (-2980) (-)

Ion 118.90 (118.60 to 119.60): VN051810.D (-2980) (-)

Time-->





#71

Bromoform

Concen: 4.142 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.28 min

Lab File: VN051891.D

Acq: 16 Oct 2018 13:13

Instrument :

MSVOA_N

ClientSampleId :

CL-02-101218-A

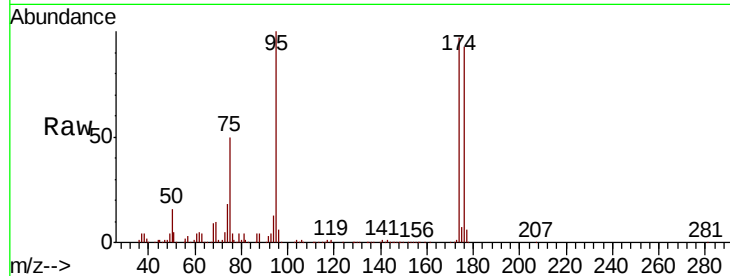
Tgt Ion:173 Resp: 3837

Ion Ratio Lower Upper

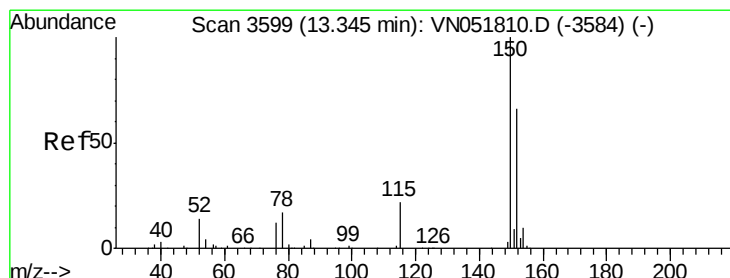
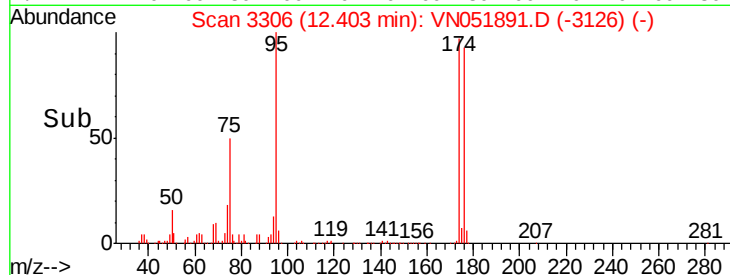
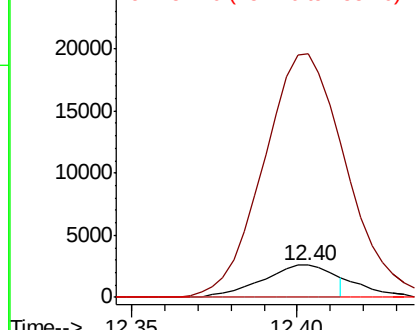
173 100

175 746.8 24.4 73.4#

254 0.0 0.1 0.1#



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# 3598

Delta R.T. -0.00 min

Lab File: VN051891.D

Acq: 16 Oct 2018 13:13

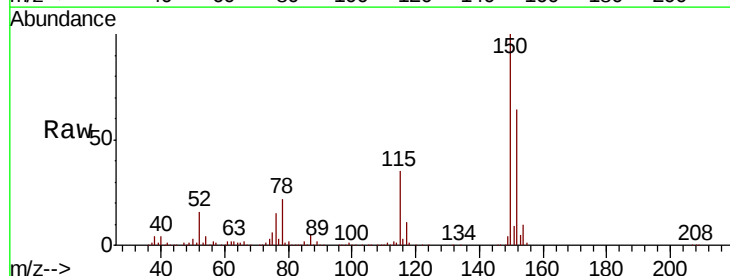
Tgt Ion:152 Resp: 380512

Ion Ratio Lower Upper

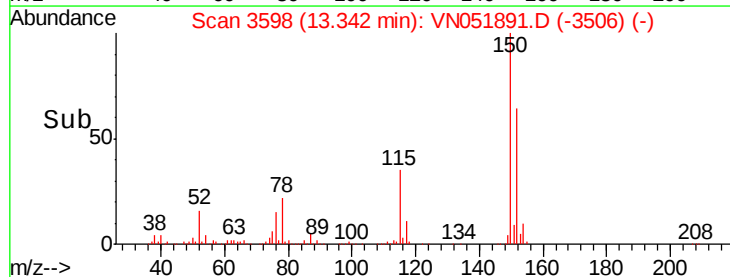
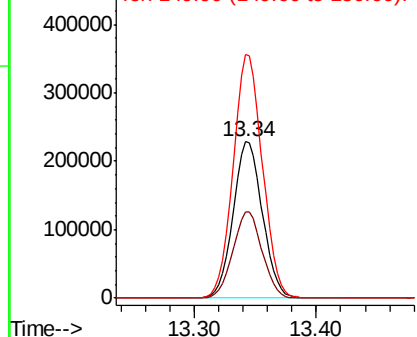
152 100

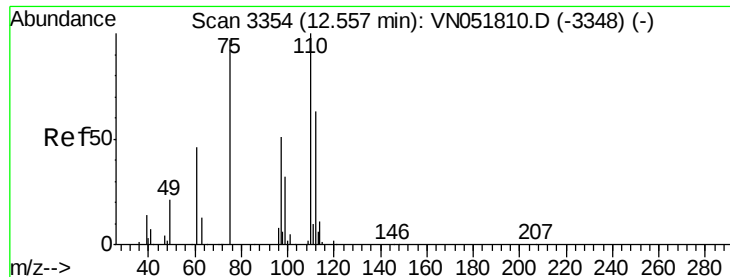
115 55.4 27.8 83.4

150 155.8 0.0 351.4



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

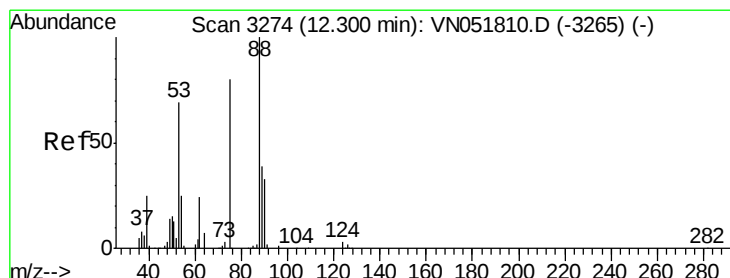
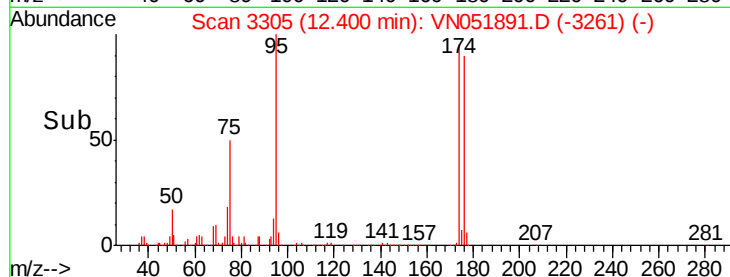
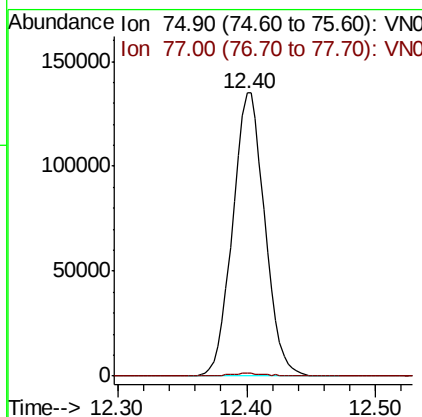
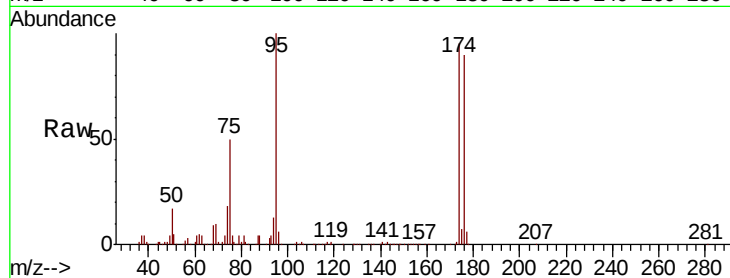




#76
 1,2,3-Trichloropropane
 Concen: 49.747 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. -0.16 min
 Lab File: VN051891.D
 Acq: 16 Oct 2018 13:13

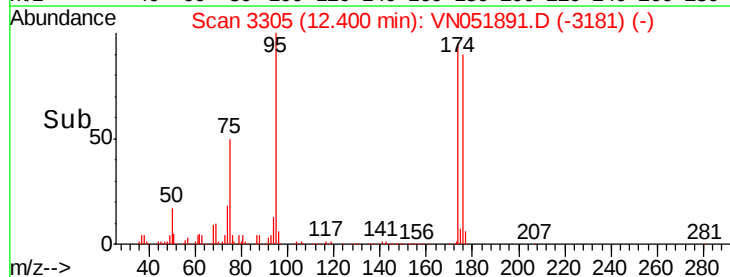
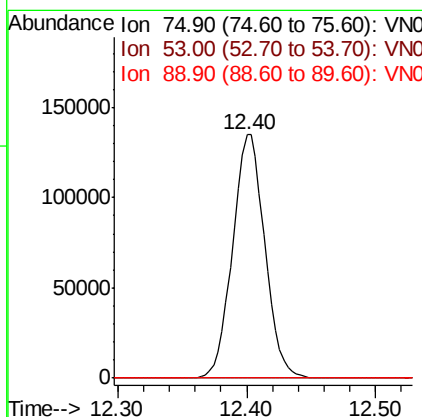
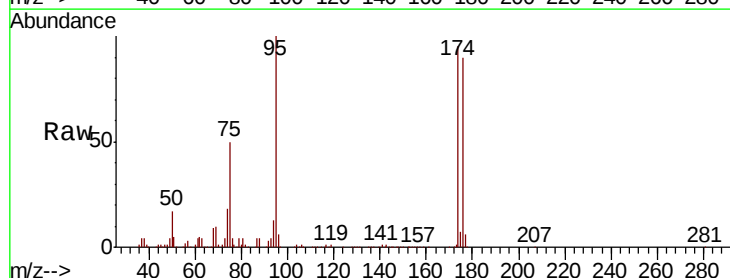
Instrument :
 MSVOA_N
 ClientSampleId :
 CL-02-101218-A

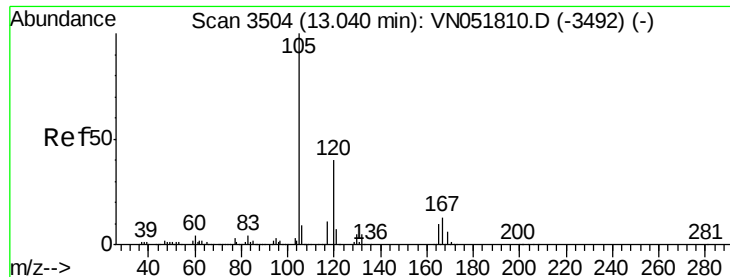
Tgt Ion: 75 Resp: 233559
 Ion Ratio Lower Upper
 75 100
 77 1.1 0.0 0.0#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 141.346 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. 0.10 min
 Lab File: VN051891.D
 Acq: 16 Oct 2018 13:13

Tgt Ion: 75 Resp: 233559
 Ion Ratio Lower Upper
 75 100
 53 0.0 68.9 103.3#
 89 0.0 36.1 54.1#

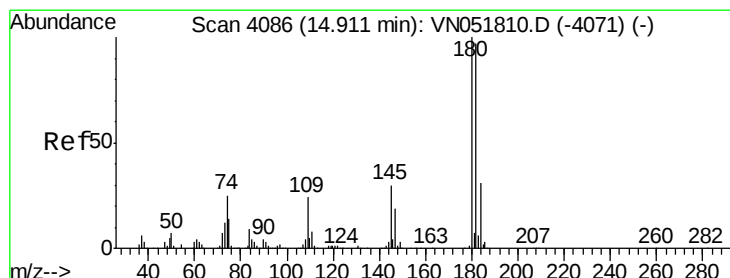
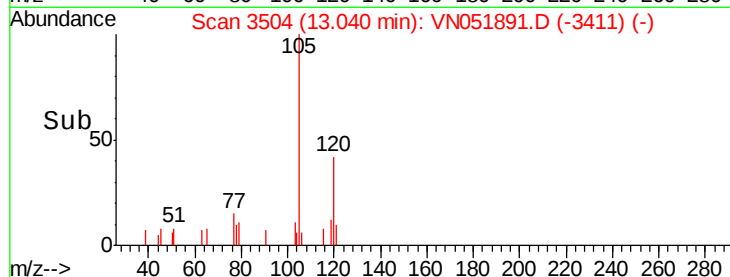
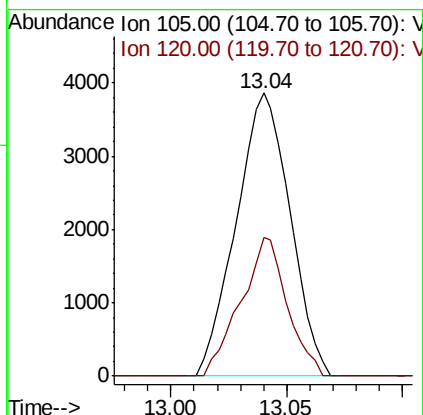
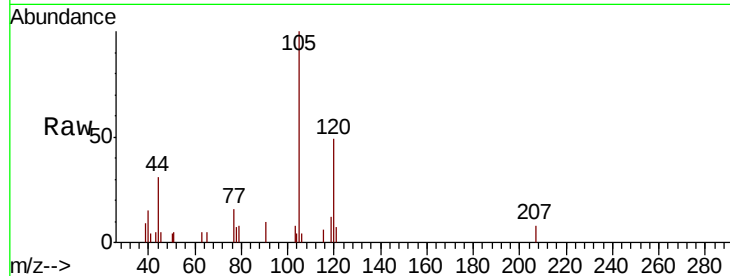




#84
 1,2,4-Trimethylbenzene
 Concen: 0.262 ug/l
 RT: 13.04 min Scan# 3504
 Delta R.T. 0.00 min
 Lab File: VN051891.D
 Acq: 16 Oct 2018 13:13

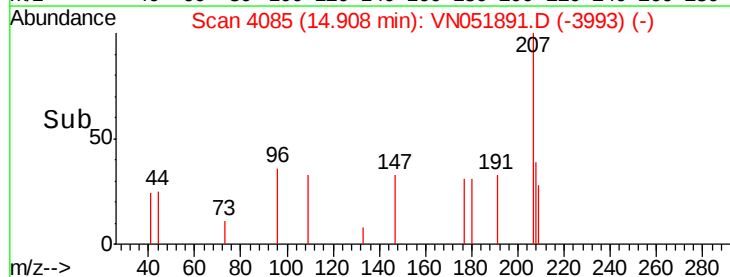
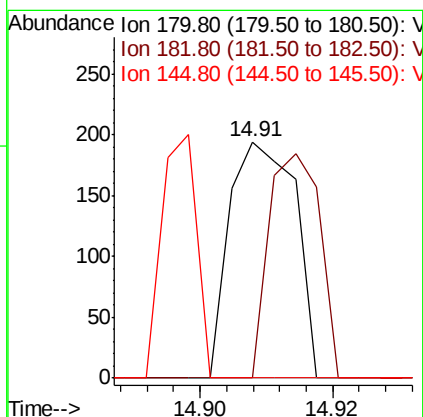
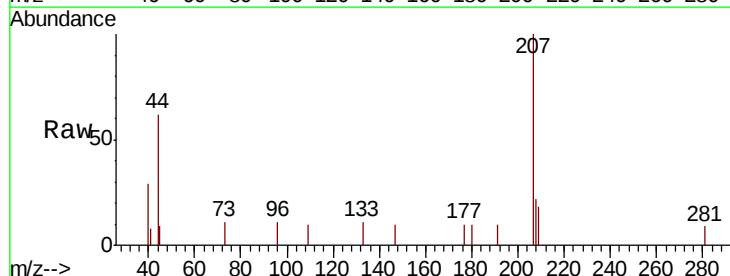
Instrument :
 MSVOA_N
 ClientSampleId :
 CL-02-101218-A

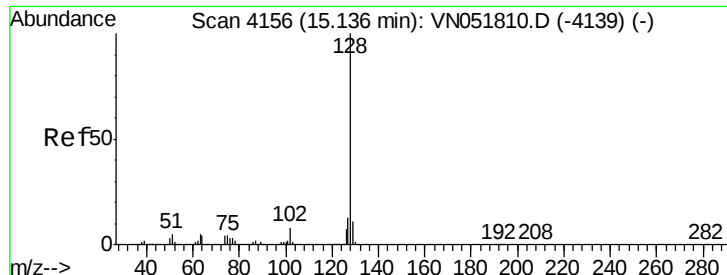
Tgt Ion:105 Resp: 6240
 Ion Ratio Lower Upper
 105 100
 120 42.4 22.9 68.8



#93
 1,2,4-Trichlorobenzene
 Concen: 3.674 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. -0.00 min
 Lab File: VN051891.D
 Acq: 16 Oct 2018 13:13

Tgt Ion:180 Resp: 133
 Ion Ratio Lower Upper
 180 100
 182 73.7 48.2 144.6
 145 54.9 14.1 42.2#





#95

Naphthalene

Concen: 6.434 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. -0.00 min

Lab File: VN051891.D

Acq: 16 Oct 2018 13:13

Instrument :

MSVOA_N

ClientSampleId :

CL-02-101218-A

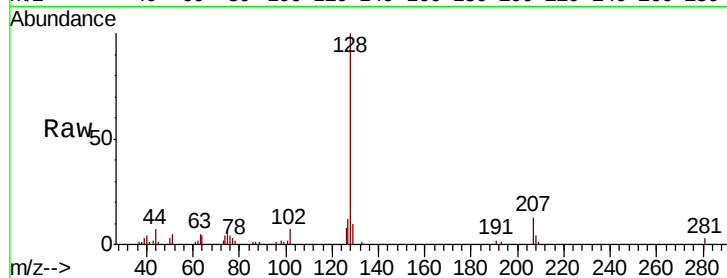
Tgt Ion:128 Resp: 31326

Ion Ratio Lower Upper

128 100

127 13.0 10.5 15.7

129 10.5 8.7 13.1



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

