

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN101918\
 Data File : VN051956.D
 Acq On : 19 Oct 2018 18:54
 Operator : MD\SY
 Sample : J5538-22 50X
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 23 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 CNL01

Quant Time: Oct 19 23:10:37 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N101718W.M
 Quant Title : SW846 8260
 QLast Update : Fri Oct 19 05:11:28 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	958107	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1396351	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1270762	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	595202	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	532764	59.98	ug/l	0.00
Spiked Amount	50.000		Recovery	=	119.96%	
35) Dibromofluoromethane	7.58	113	10538	1.19	ug/l	0.00
Spiked Amount	50.000		Recovery	=	2.38%	
50) Toluene-d8	10.09	98	1923184	59.53	ug/l	0.00
Spiked Amount	50.000		Recovery	=	119.06%	
62) 4-Bromofluorobenzene	12.40	95	606442	56.24	ug/l	0.00
Spiked Amount	50.000		Recovery	=	112.48%	

Target Compounds

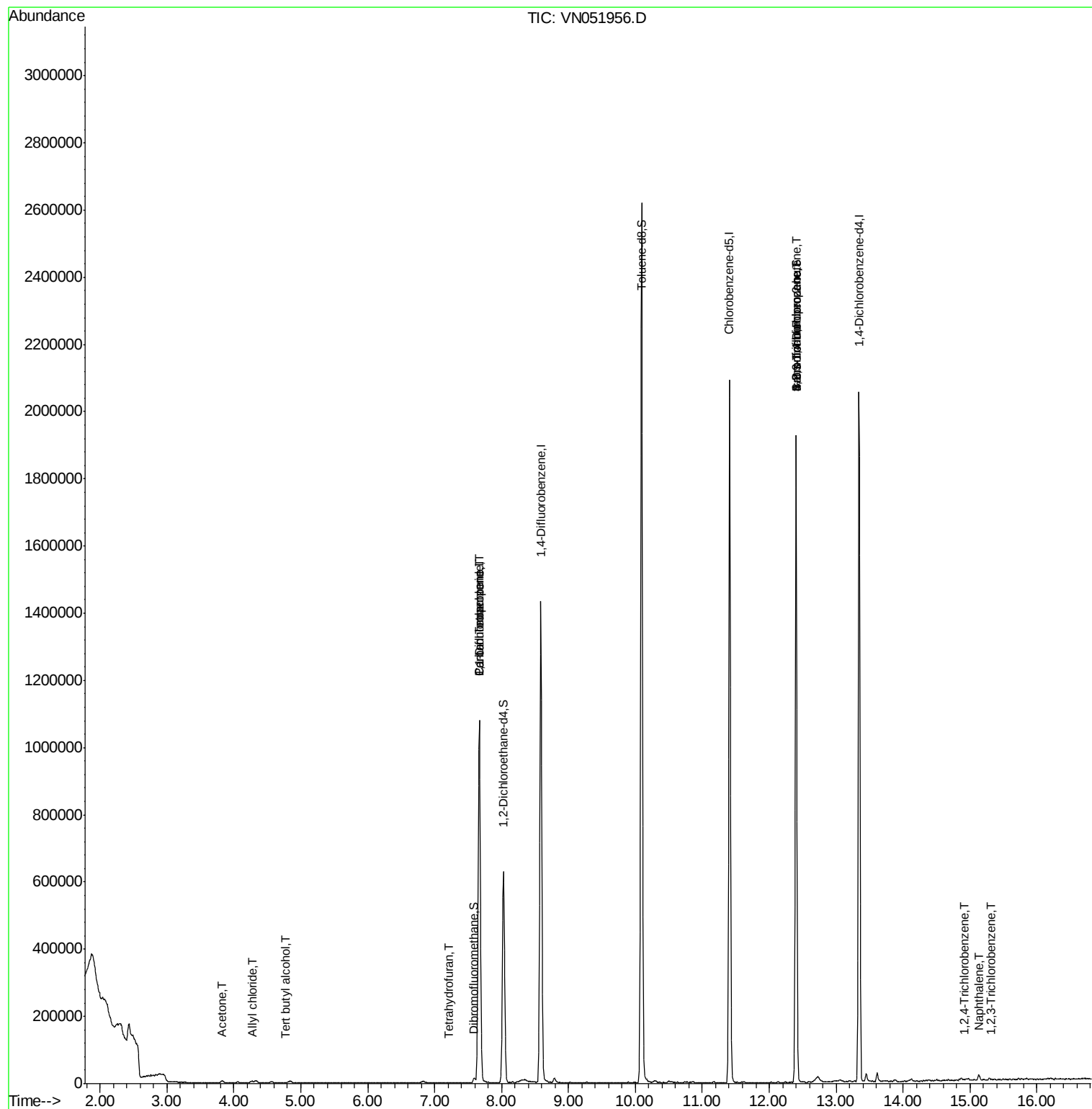
					Qvalue	
5) Bromomethane	2.56	94	278	Below Cal	#	42
11) Tert butyl alcohol	4.78	59	114	0.220 ug/l	#	72
13) Acrolein	3.62	56	86	Below Cal	#	1
14) Allyl chloride	4.27	41	5654	0.757 ug/l	#	26
16) Acetone	3.82	43	9032	5.743 ug/l	#	67
18) Methyl Acetate	4.33	43	8515	Below Cal	#	49
29) Tetrahydrofuran	7.21	42	346	0.252 ug/l	#	40
31) Cyclohexane	7.67	56	15789	Below Cal	#	40
36) 1,1-Dichloropropene	7.67	75	59602	5.499 ug/l	#	44
37) Ethyl Acetate	6.93	43	214	Below Cal	#	64
38) Carbon Tetrachloride	7.67	117	87440	6.851 ug/l	#	16
43) Isopropyl Acetate	8.17	43	2553	Below Cal	#	76
71) Bromoform	12.41	173	5908	4.011 ug/l	#	1
76) 1,2,3-Trichloropropane	12.40	75	306242	42.332 ug/l	#	100
79) 2-Chlorotoluene	12.77	91	277	Below Cal		71
81) trans-1,4-Dichloro-2-buten	12.40	75	306242	139.138 ug/l	#	14
93) 1,2,4-Trichlorobenzene	14.91	180	60	4.067 ug/l	#	17
95) Naphthalene	15.13	128	12404	4.646 ug/l	#	93
96) 1,2,3-Trichlorobenzene	15.32	180	69	2.920 ug/l	#	12

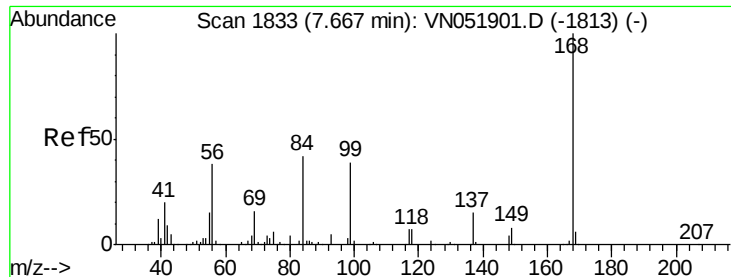
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN051956.D

Acq: 19 Oct 2018 18:54

Instrument :

MSVOA_N

ClientSampled :

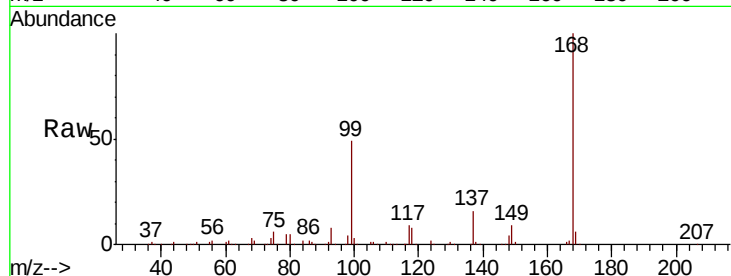
CNL01

Tot Ion:168 Resp: 958107

Ion Ratio Lower Upper

168 100

99 48.6 39.2 58.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.67

400000

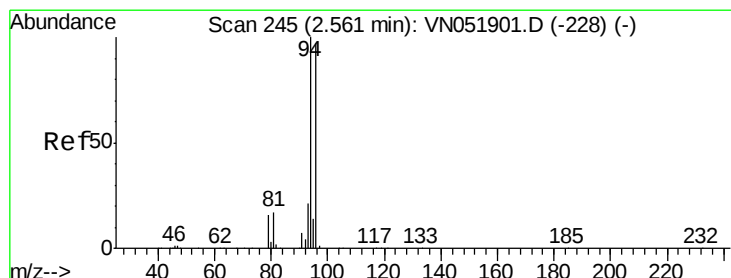
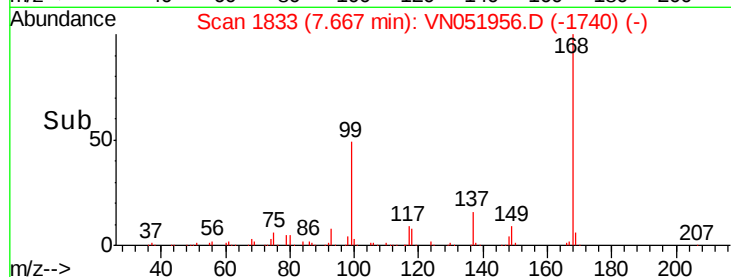
300000

200000

100000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 2.56 min Scan# 244

Delta R.T. -0.00 min

Lab File: VN051956.D

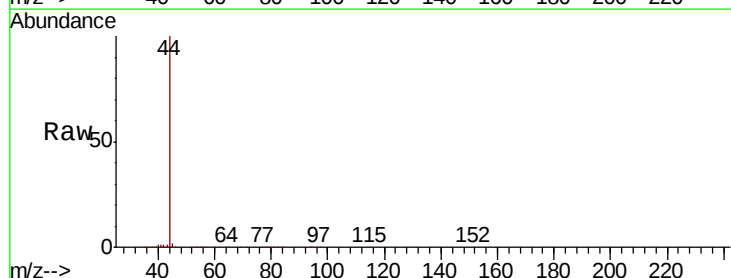
Acq: 19 Oct 2018 18:54

Tgt Ion: 94 Resp: 278

Ion Ratio Lower Upper

94 100

96 39.5 77.5 116.3#



Abundance Ion 93.90 (93.60 to 94.60): VN

Ion 95.90 (95.60 to 96.60): VN

2.56

400

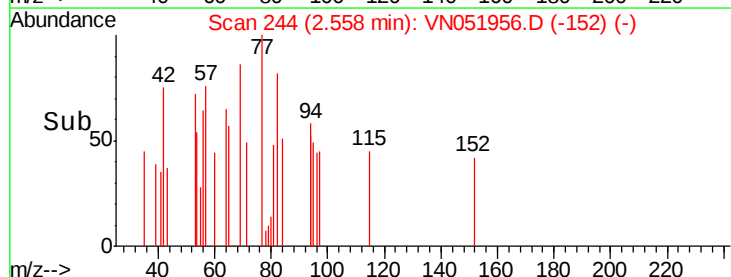
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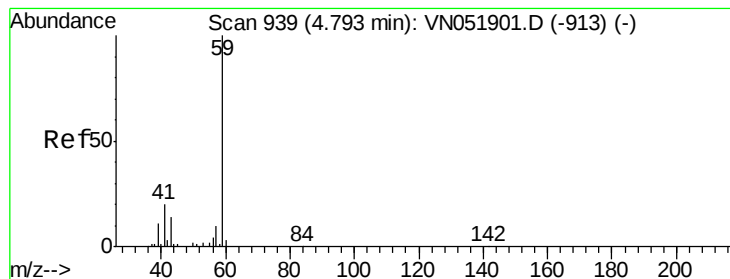
200

100

0

Time-->



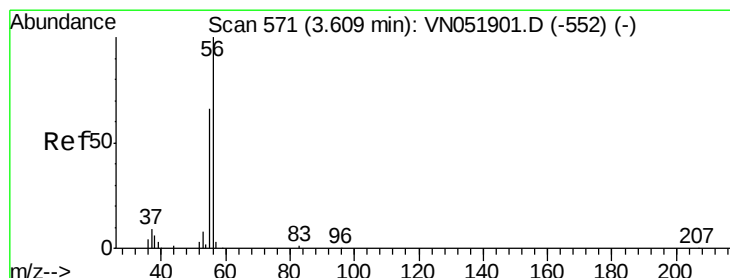
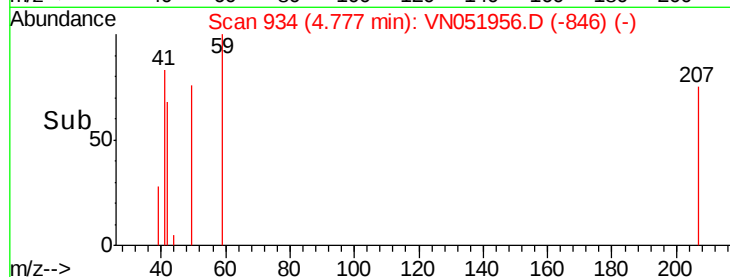
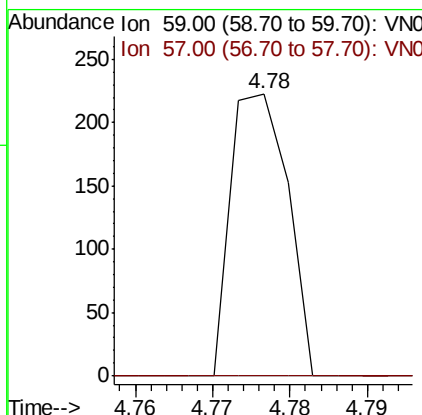
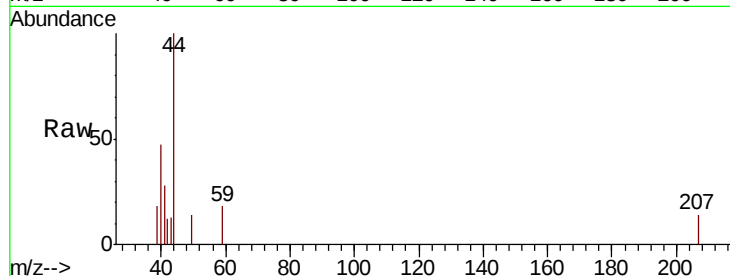


#11

Tert butyl alcohol
 Concen: 0.220 ug/l
 RT: 4.78 min Scan# 934
 Delta R.T. -0.02 min
 Lab File: VN051956.D
 Acq: 19 Oct 2018 18:54

Instrument :
 MSVOA_N
 ClientSampleId :
 CNL01

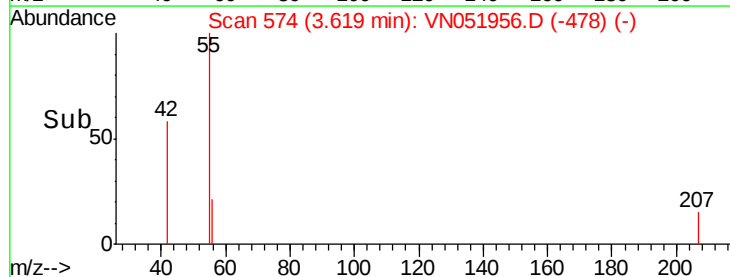
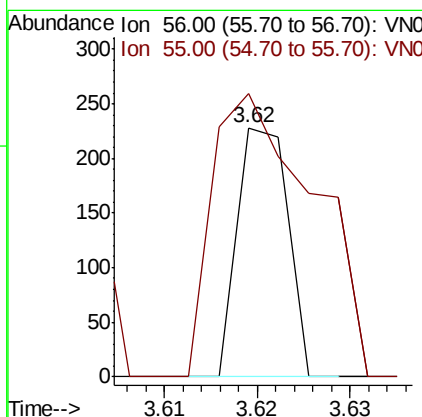
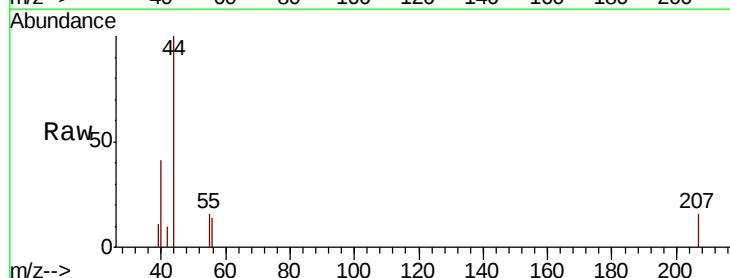
Tot Ion: 59 Resp: 114
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.3 12.5#

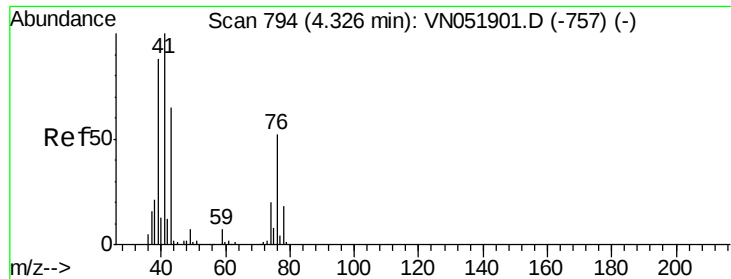


#13

Acrolein
 Concen: Below Cal
 RT: 3.62 min Scan# 574
 Delta R.T. 0.01 min
 Lab File: VN051956.D
 Acq: 19 Oct 2018 18:54

Tgt Ion: 56 Resp: 86
 Ion Ratio Lower Upper
 56 100
 55 229.1 56.7 85.1#

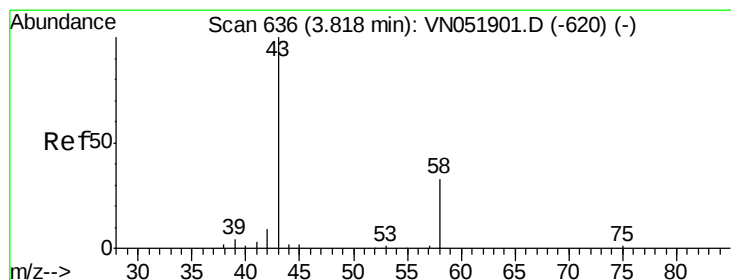
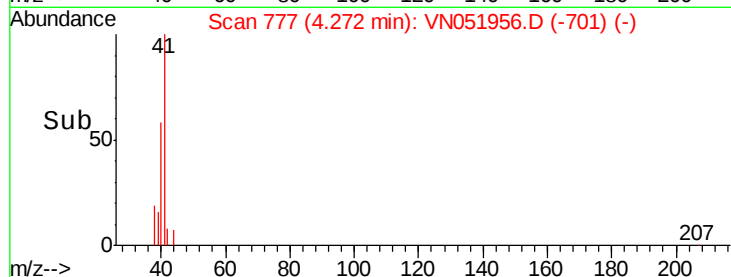
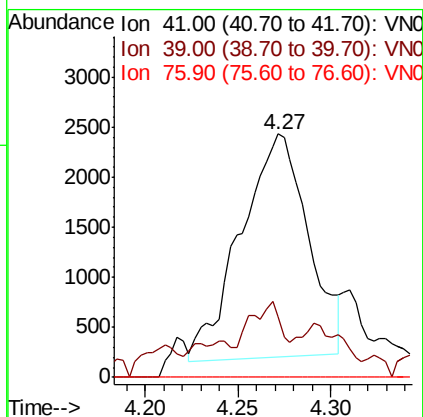
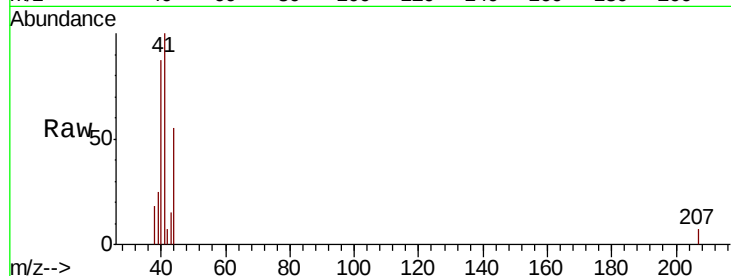




#14
Allvl chloride
Concen: 0.757 ug/l
RT: 4.27 min Scan# 777
Delta R.T. -0.05 min
Lab File: VN051956.D
Acq: 19 Oct 2018 18:54

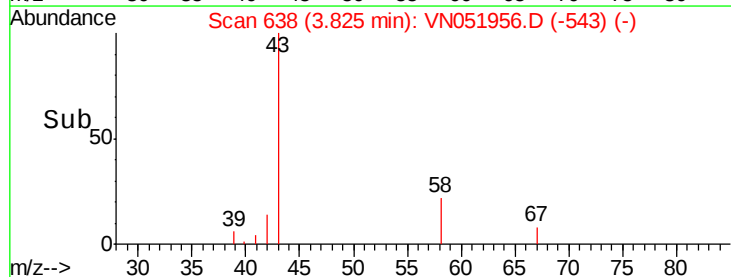
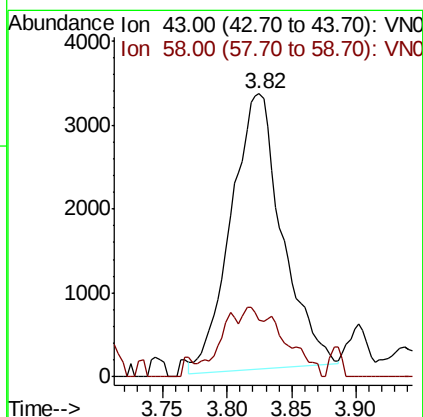
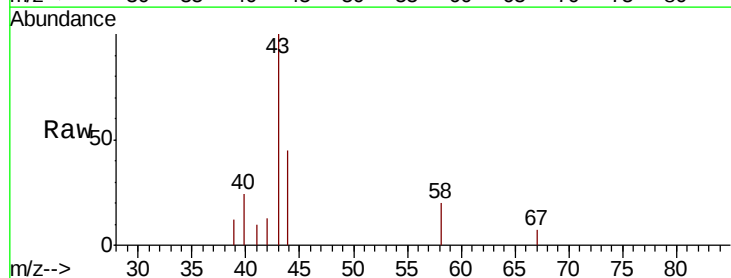
Instrument :
MSVOA_N
ClientSampled :
CNL01

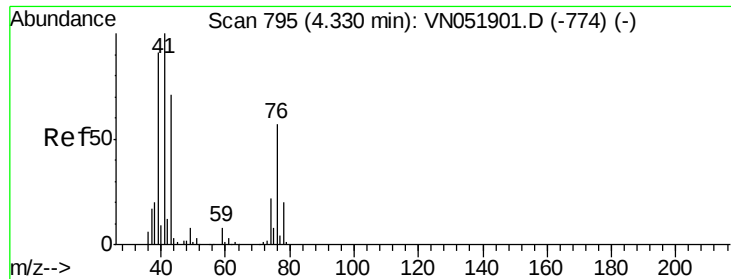
Tot Ion: 41 Resp: 5654
Ion Ratio Lower Upper
41 100
39 14.1 65.4 98.0#
76 0.0 39.6 59.4#



#16
Acetone
Concen: 5.743 ug/l
RT: 3.82 min Scan# 638
Delta R.T. 0.01 min
Lab File: VN051956.D
Acq: 19 Oct 2018 18:54

Tgt Ion: 43 Resp: 9032
Ion Ratio Lower Upper
43 100
58 13.8 25.9 38.9#

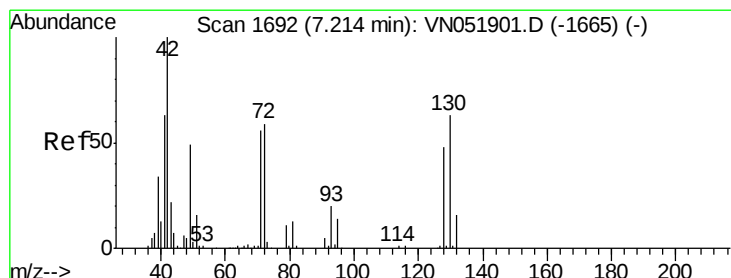
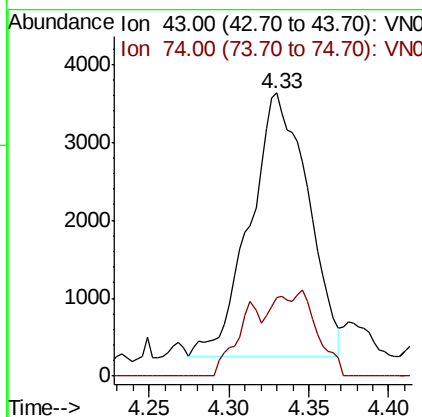
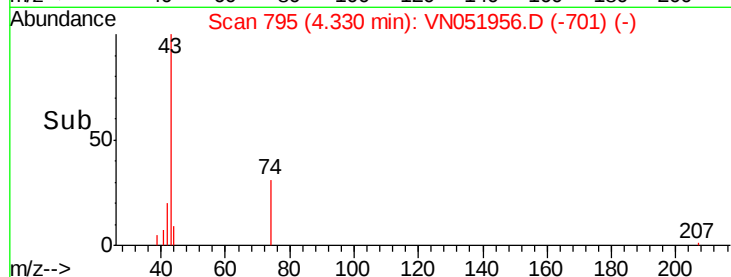
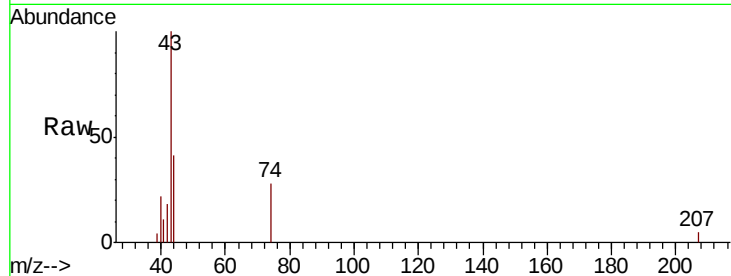




#18
Methyl Acetate
Concen: Below Cal
RT: 4.33 min Scan# 795
Delta R.T. 0.00 min
Lab File: VN051956.D
Acq: 19 Oct 2018 18:54

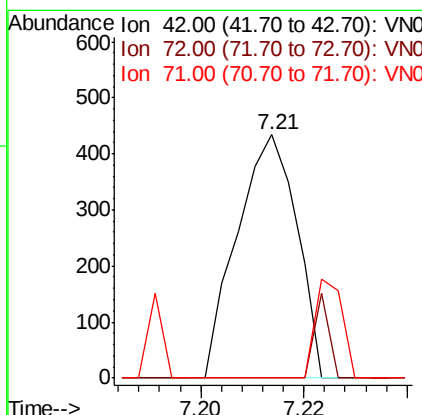
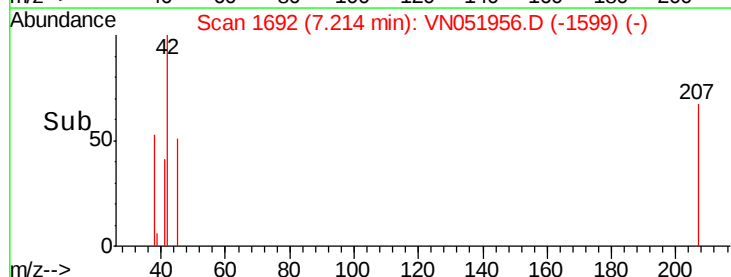
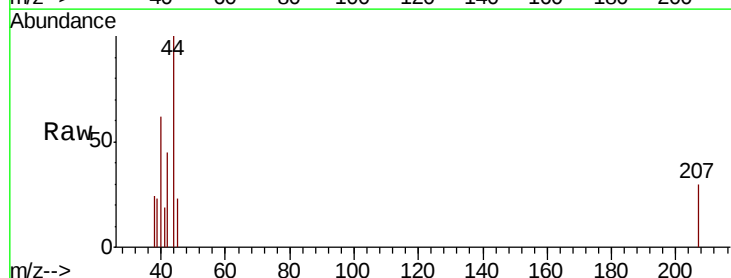
Instrument :
MSVOA_N
ClientSampleId :
CNL01

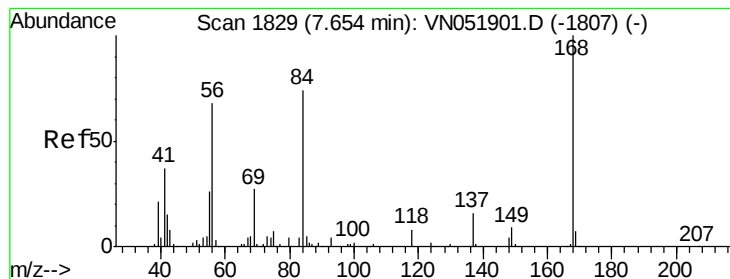
Tot Ion: 43 Resp: 8515
Ion Ratio Lower Upper
43 100
74 2.8 24.9 37.3#



#29
Tetrahydrofuran
Concen: 0.252 ug/l
RT: 7.21 min Scan# 1692
Delta R.T. 0.00 min
Lab File: VN051956.D
Acq: 19 Oct 2018 18:54

Tgt Ion: 42 Resp: 346
Ion Ratio Lower Upper
42 100
72 8.4 47.7 71.5#
71 18.5 45.4 68.0#





#31

Cyclohexane

Concen: Below Cal

RT: 7.67 min Scan# 1833

Delta R.T. 0.01 min

Lab File: VN051956.D

Acq: 19 Oct 2018 18:54

Instrument :

MSVOA_N

ClientSampleId :

CNL01

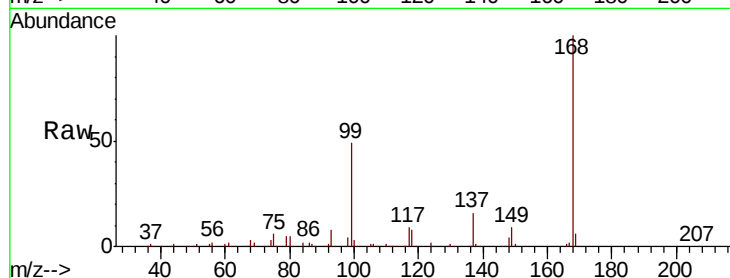
Tot Ion: 56 Resp: 15789

Ion Ratio Lower Upper

56 100

69 147.5 31.2 46.8#

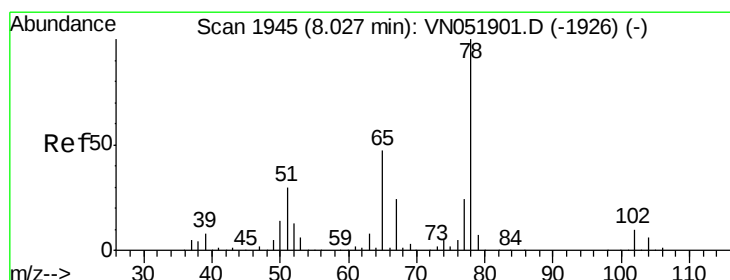
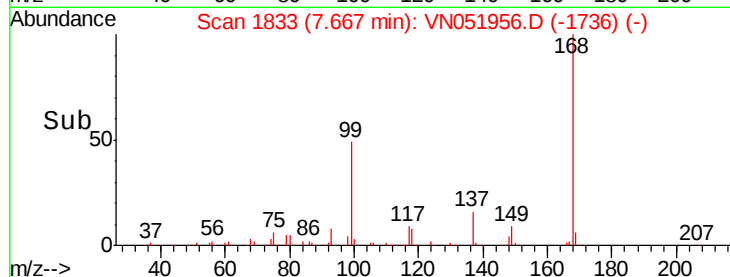
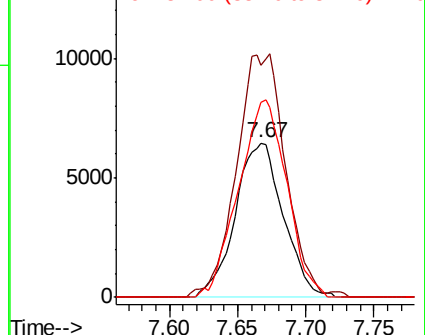
84 126.5 86.6 130.0



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: Below ug/l

RT: 8.03 min Scan# 1945

Delta R.T. 0.00 min

Lab File: VN051956.D

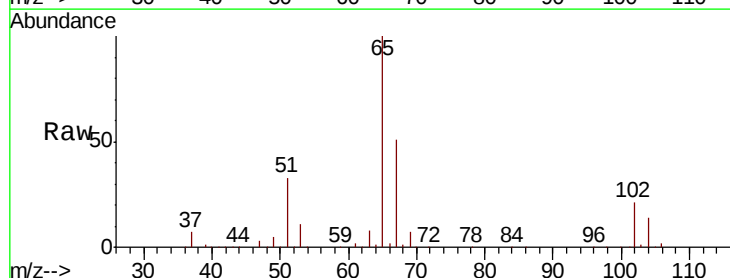
Acq: 19 Oct 2018 18:54

Tgt Ion: 65 Resp: 532764

Ion Ratio Lower Upper

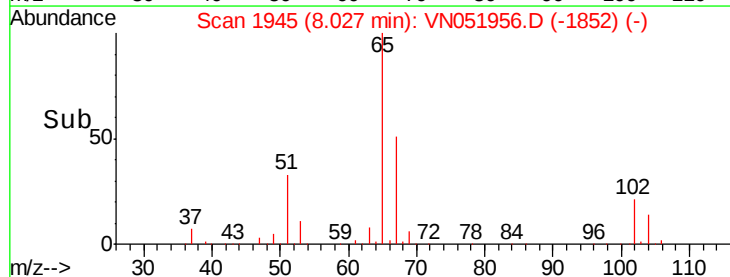
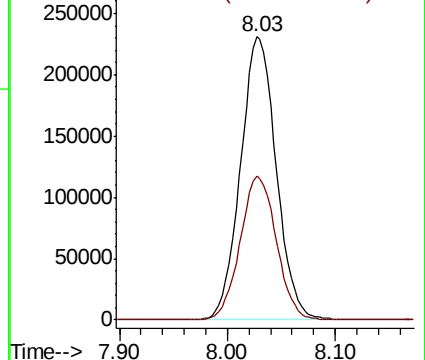
65 100

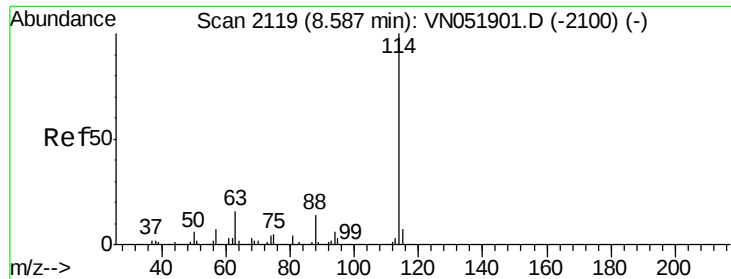
67 51.3 0.0 104.0



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

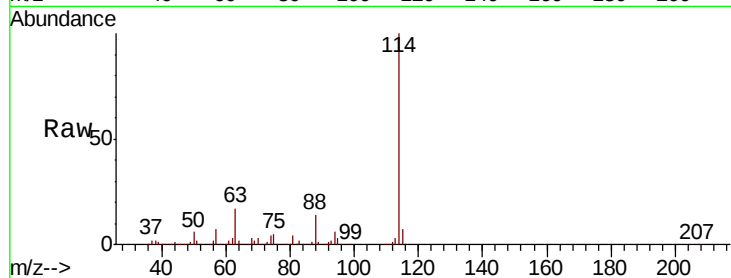




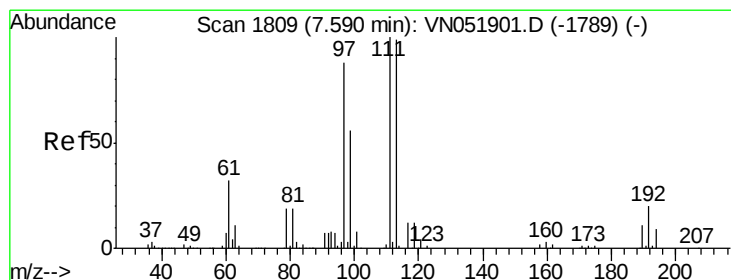
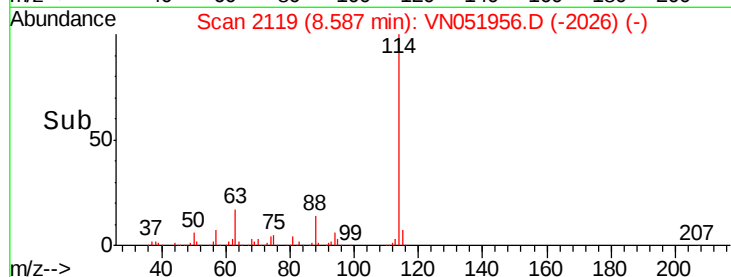
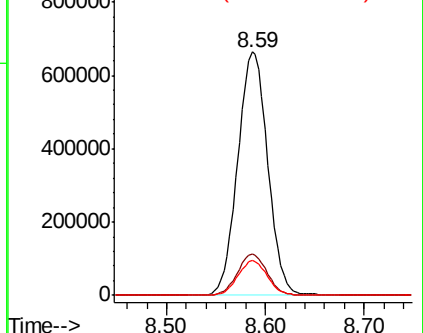
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN051956.D
 Acq: 19 Oct 2018 18:54

Instrument :
 MSVOA_N
 ClientSampleId :
 CNL01

Tot Ion:114 Resp: 1396351
 Ion Ratio Lower Upper
 114 100
 63 16.8 0.0 31.8
 88 14.4 0.0 28.0

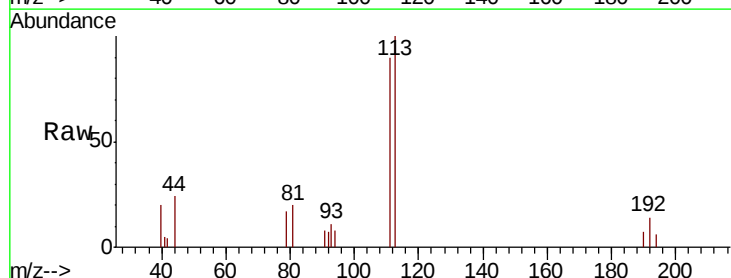


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

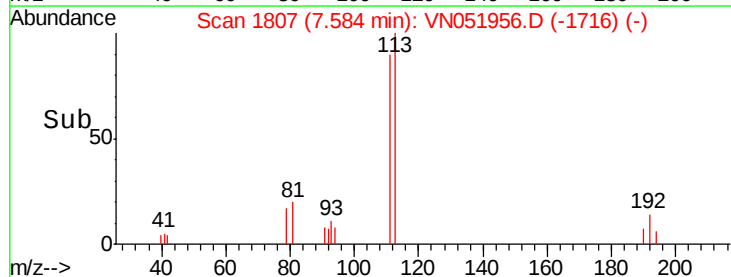
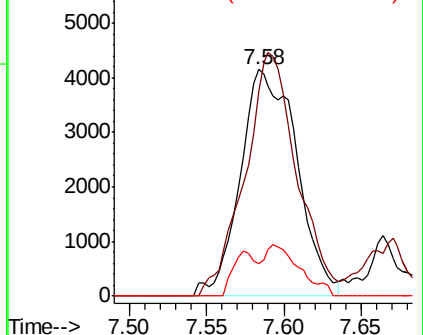


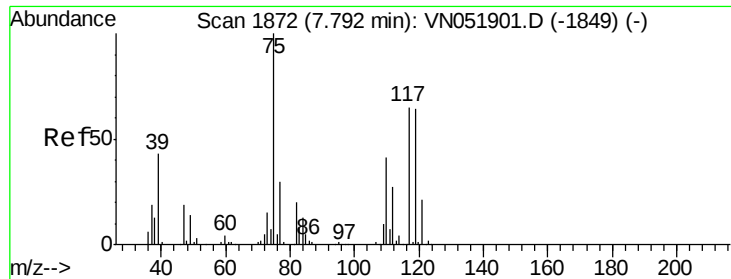
#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 7.58 min Scan# 1807
 Delta R.T. -0.01 min
 Lab File: VN051956.D
 Acq: 19 Oct 2018 18:54

Tgt Ion:113 Resp: 10538
 Ion Ratio Lower Upper
 113 100
 111 98.7 82.6 123.8
 192 14.2 17.3 25.9#



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

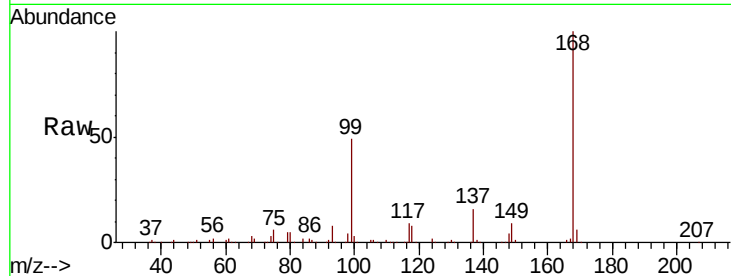




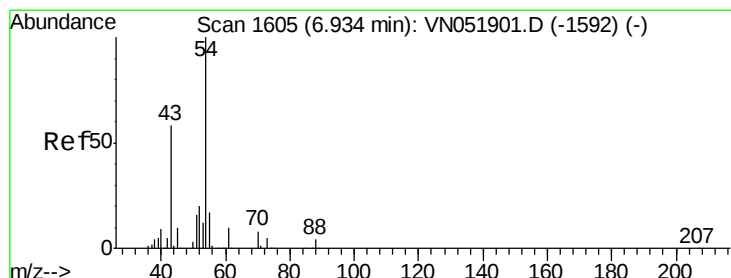
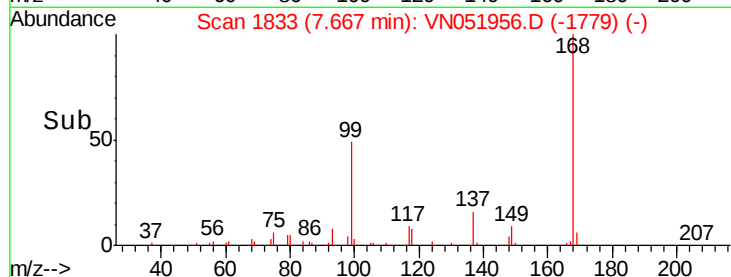
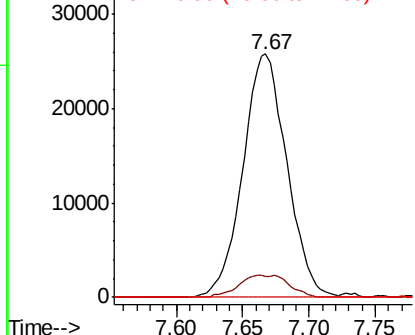
#36
 1,1-Dichloropropene
 Concen: 5.499 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.13 min
 Lab File: VN051956.D
 Acq: 19 Oct 2018 18:54

Instrument :
 MSVOA_N
 ClientSampleId :
 CNL01

Tot Ion	Ratio	Lower	Upper
75	100		
110	6.5	21.0	63.0#
77	0.0	24.9	37.3#

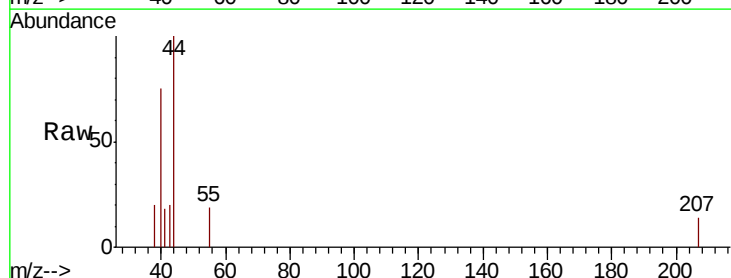


Abundance Ion 74.90 (74.60 to 75.60): VN051901.D (-1849) (-)
 Ion 109.90 (109.60 to 110.60): VN051901.D (-1849) (-)
 Ion 76.90 (76.60 to 77.60): VN051901.D (-1849) (-)

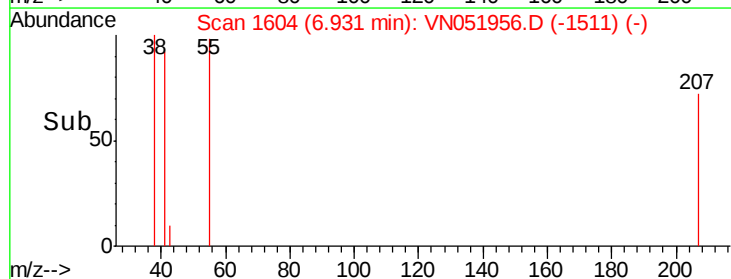
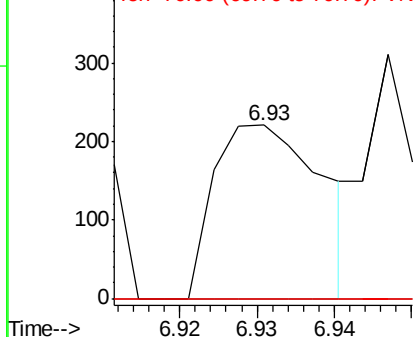


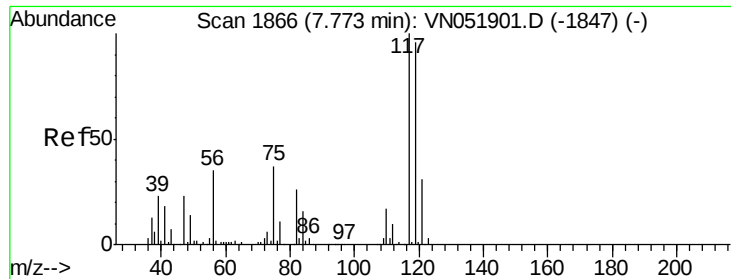
#37
 Ethyl Acetate
 Concen: Below Cal
 RT: 6.93 min Scan# 1604
 Delta R.T. -0.00 min
 Lab File: VN051956.D
 Acq: 19 Oct 2018 18:54

Tgt Ion	Ratio	Lower	Upper
43	100		
61	0.0	13.0	19.6#
70	0.0	10.4	15.6#



Abundance Ion 43.00 (42.70 to 43.70): VN051901.D (-1592) (-)
 Ion 60.90 (60.60 to 61.60): VN051901.D (-1592) (-)
 Ion 70.00 (69.70 to 70.70): VN051901.D (-1592) (-)





#38

Carbon Tetrachloride

Concen: 6.851 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.11 min

Lab File: VN051956.D

Acq: 19 Oct 2018 18:54

Instrument :

MSVOA_N

ClientSampled :

CNL01

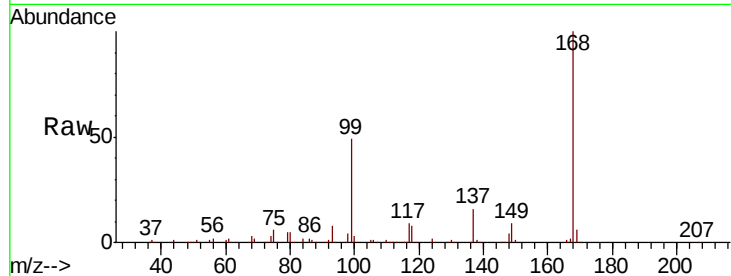
Tot Ion:117 Resp: 87440

Ion Ratio Lower Upper

117 100

119 5.3 77.0 115.6#

121 0.0 25.1 37.7#

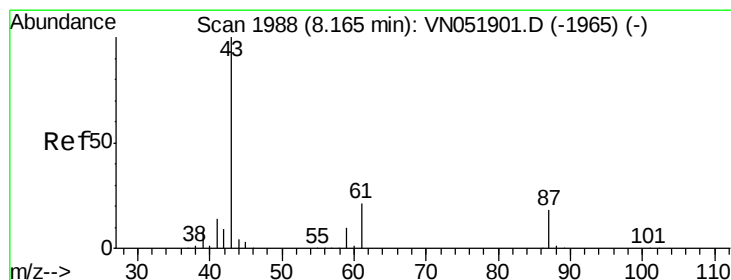
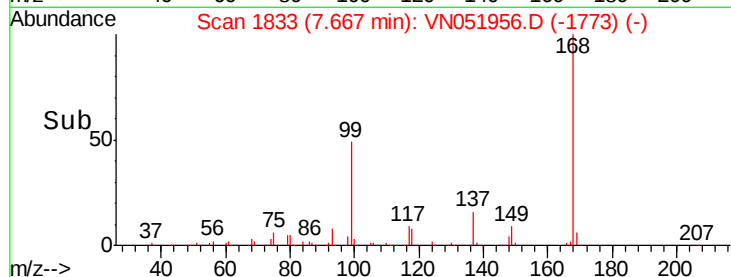
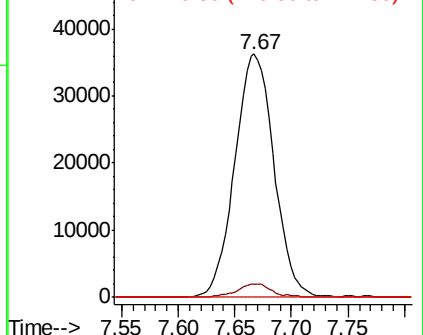


Abundance

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: Below Cal

RT: 8.17 min Scan# 1989

Delta R.T. 0.00 min

Lab File: VN051956.D

Acq: 19 Oct 2018 18:54

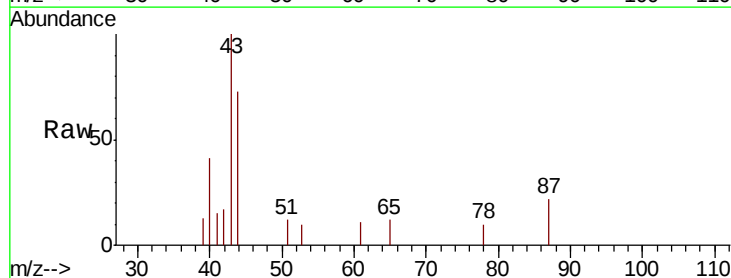
Tgt Ion: 43 Resp: 2553

Ion Ratio Lower Upper

43 100

61 13.4 24.9 37.3#

87 13.8 14.6 22.0#

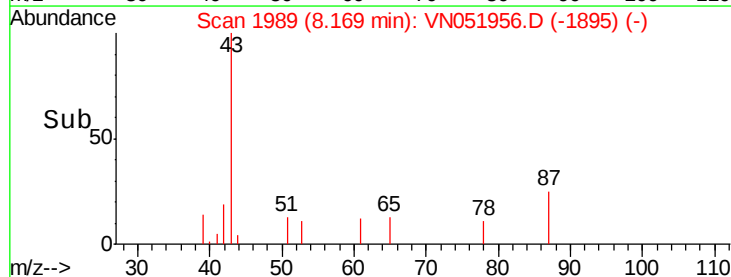
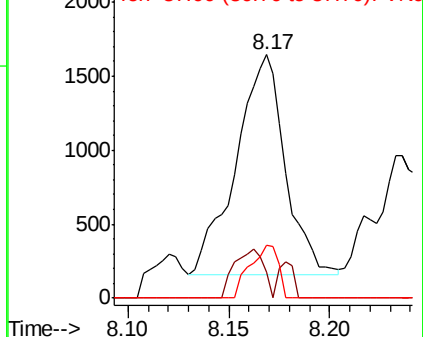


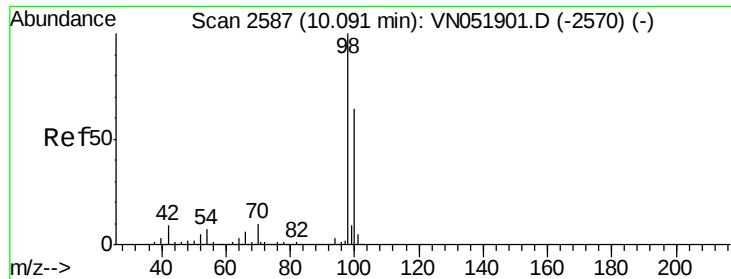
Abundance

Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V





#50

Toluene-d8

Concen: N.D. ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN051956.D

Acq: 19 Oct 2018 18:54

Instrument :

MSVOA_N

ClientSampled :

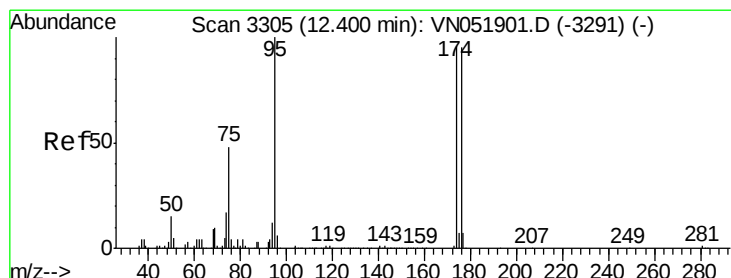
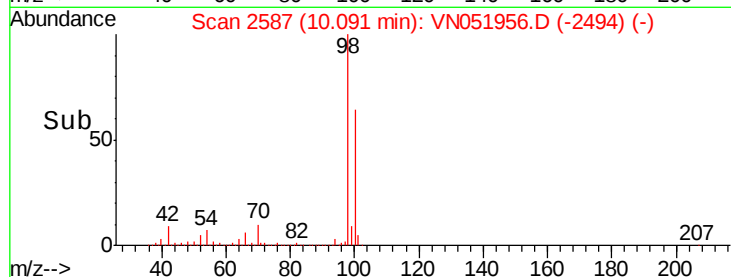
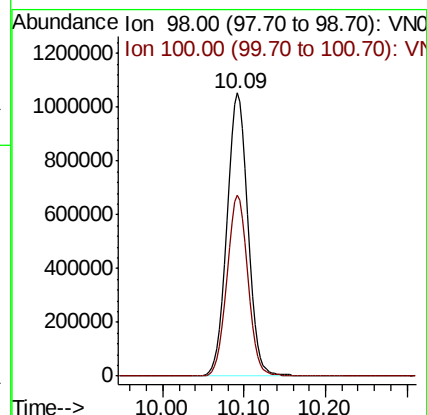
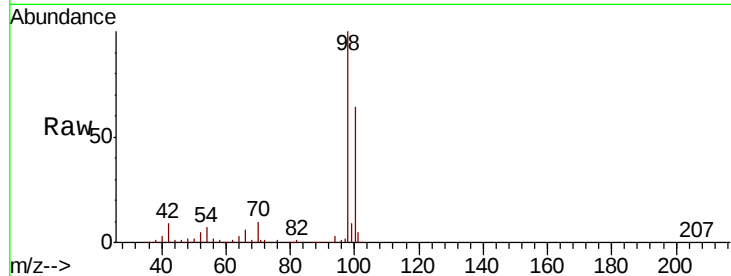
CNL01

Tot Ion: 98 Resp: 1923184

Ion Ratio Lower Upper

98 100

100 63.9 51.0 76.4



#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN051956.D

Acq: 19 Oct 2018 18:54

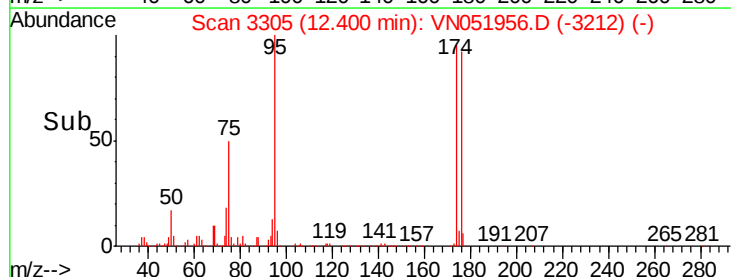
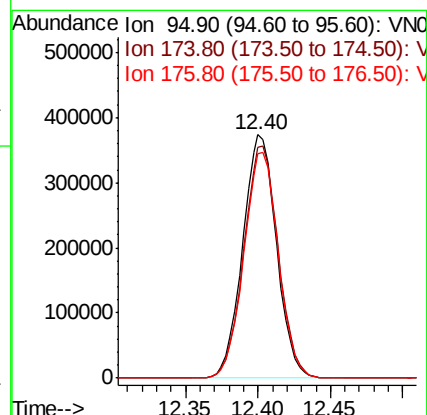
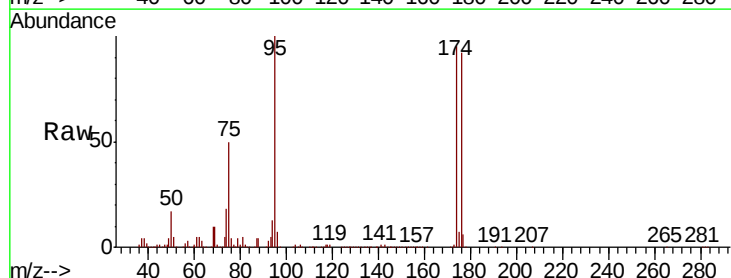
Tgt Ion: 95 Resp: 606442

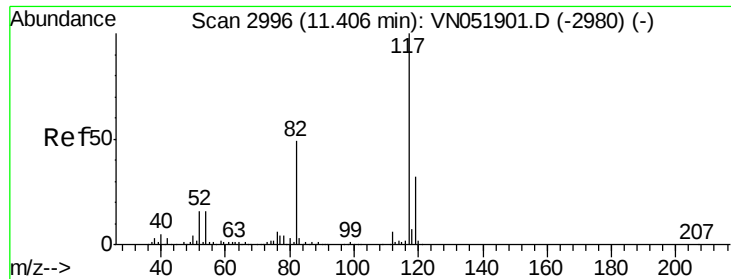
Ion Ratio Lower Upper

95 100

174 97.0 0.0 195.0

176 94.4 0.0 191.4

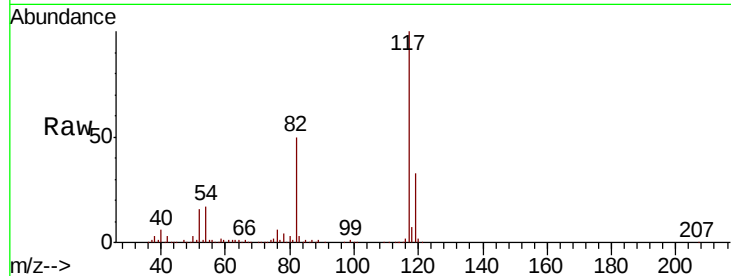




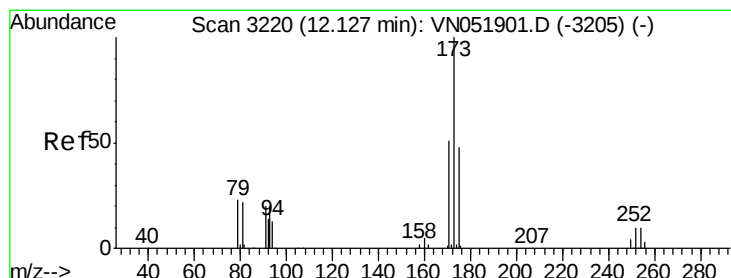
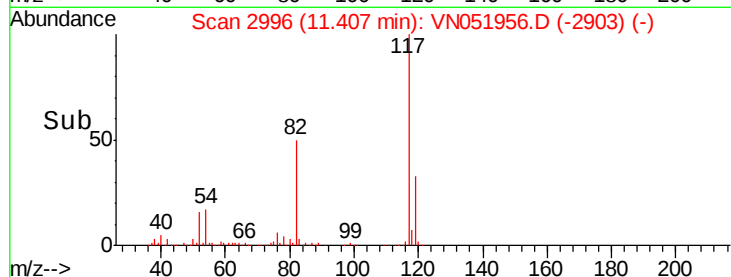
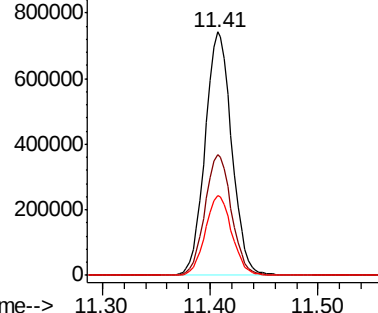
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN051956.D
Acq: 19 Oct 2018 18:54

Instrument :
MSVOA_N
ClientSampled :
CNL01

Tot Ion:117 Resp: 1270762
Ion Ratio Lower Upper
117 100
82 49.5 38.9 58.3
119 32.6 25.9 38.9

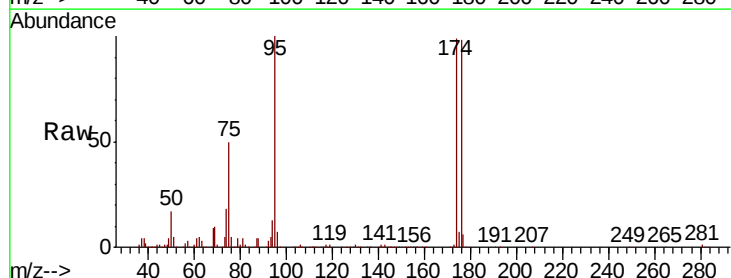


Abundance Ion 116.90 (116.60 to 117.60): V
1000000 Ion 82.00 (81.70 to 82.70): VN
Ion 118.90 (118.60 to 119.60): V

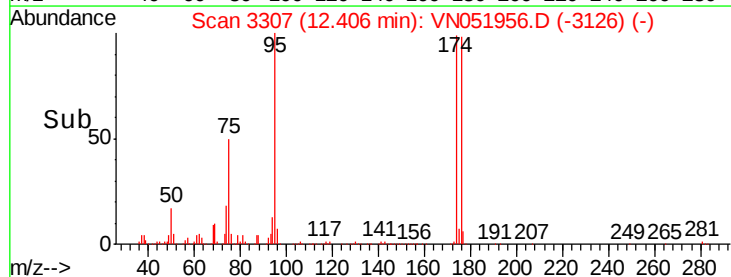
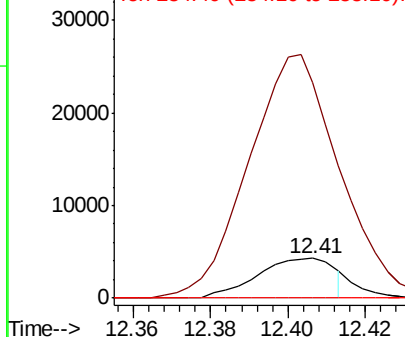


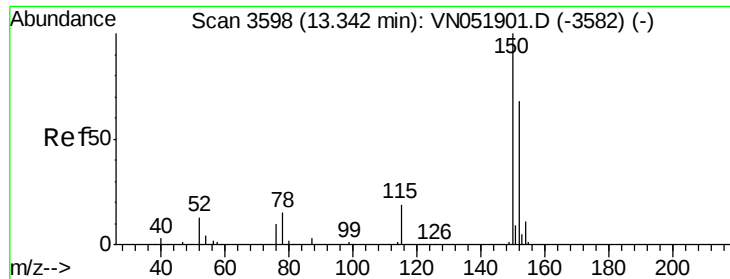
#71
Bromoform
Concen: 4.011 ug/l
RT: 12.41 min Scan# 3307
Delta R.T. 0.28 min
Lab File: VN051956.D
Acq: 19 Oct 2018 18:54

Tgt Ion:173 Resp: 5908
Ion Ratio Lower Upper
173 100
175 632.0 24.0 72.0#
254 0.0 0.2 0.2#



Abundance Ion 172.70 (172.40 to 173.40): V
30000 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: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN051956.D

Acq: 19 Oct 2018 18:54

Instrument :

MSVOA_N

ClientSampleId :

CNLO1

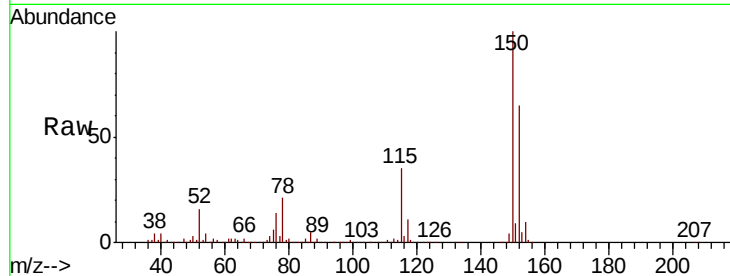
Tot Ion:152 Resp: 595202

Ion Ratio Lower Upper

152 100

115 54.8 26.7 80.1

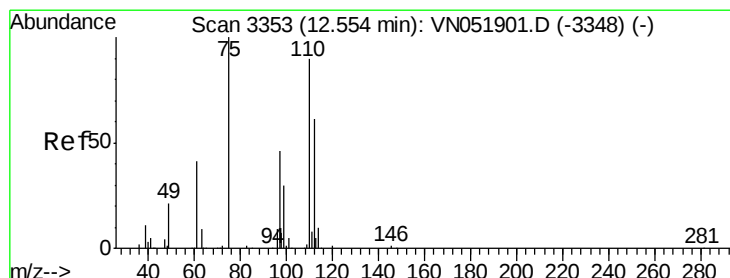
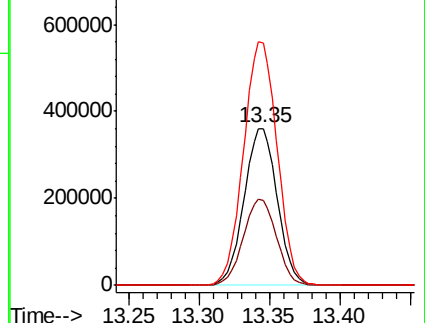
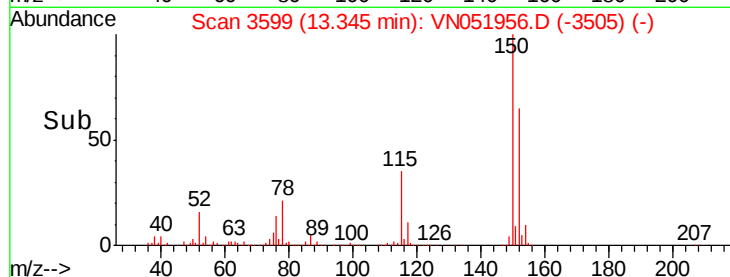
150 157.7 0.0 346.4



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: 42.332 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN051956.D

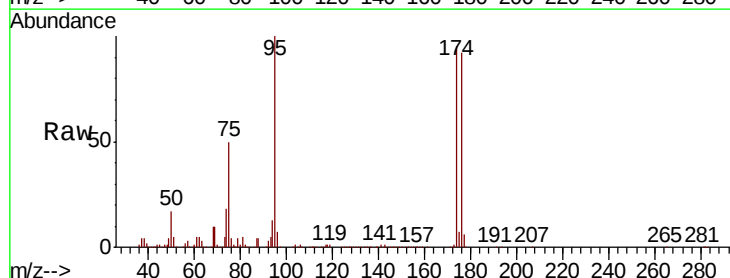
Acq: 19 Oct 2018 18:54

Tgt Ion: 75 Resp: 306242

Ion Ratio Lower Upper

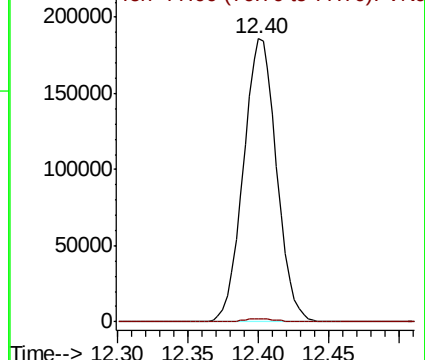
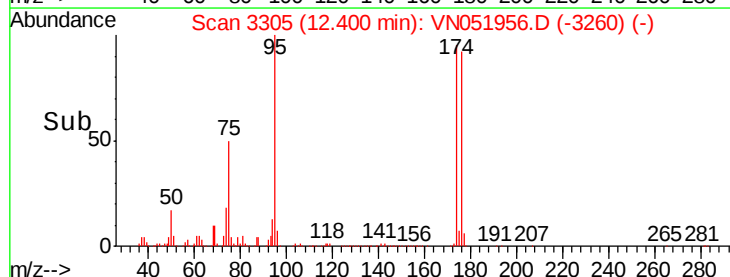
75 100

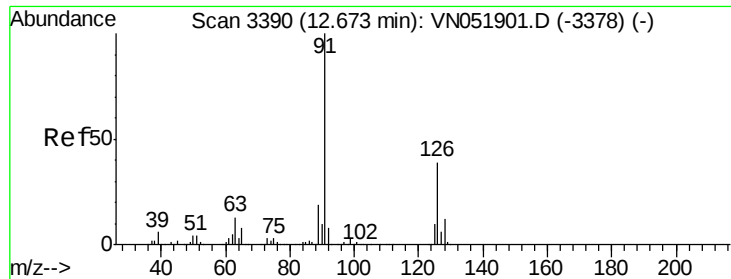
77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V

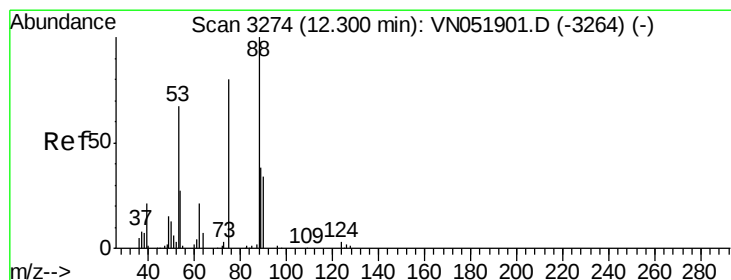
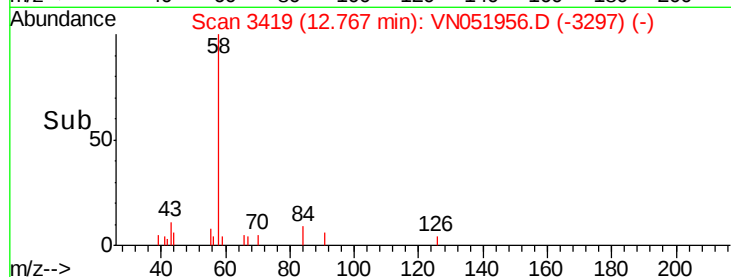
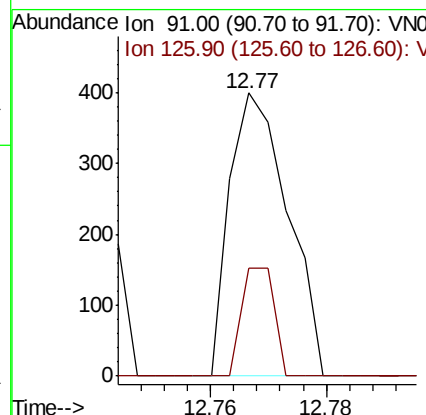
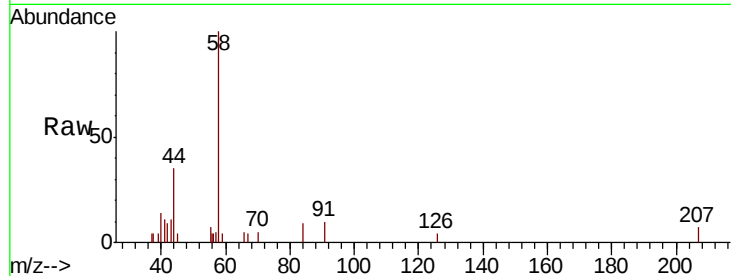




#79
 2-Chlorotoluene
 Concen: Below Cal
 RT: 12.77 min Scan# 3419
 Delta R.T. 0.09 min
 Lab File: VN051956.D
 Acq: 19 Oct 2018 18:54

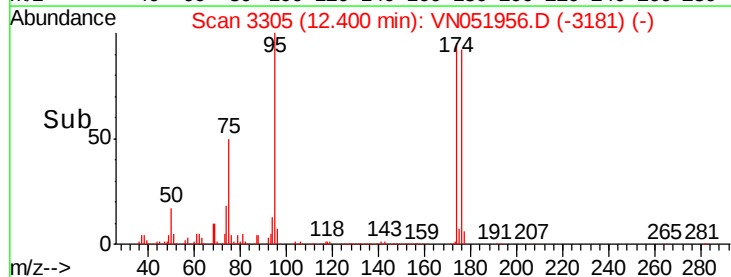
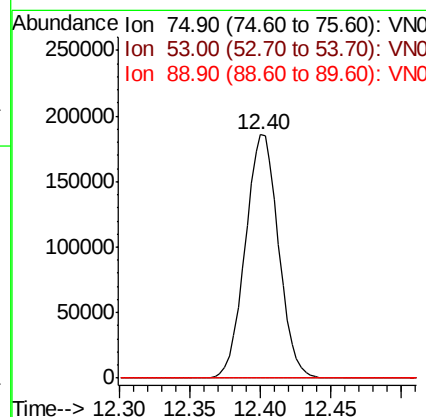
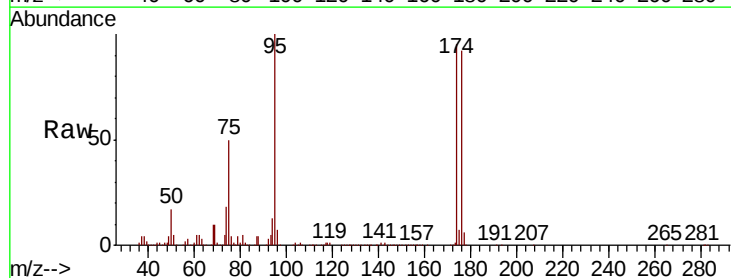
Instrument :
 MSVOA_N
 ClientSampleId :
 CNL01

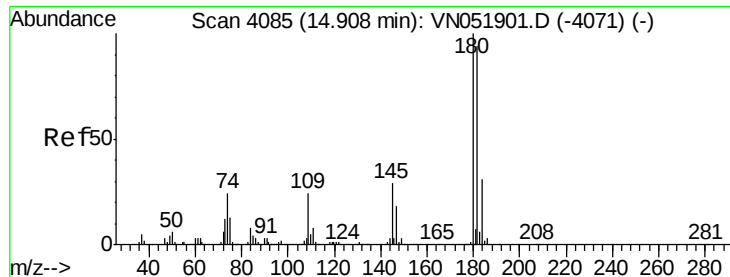
Tot Ion: 91 Resp: 277
 Ion Ratio Lower Upper
 91 100
 126 21.3 19.6 58.7



#81
 trans-1,4-Dichloro-2-butene
 Concen: 139.138 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. 0.10 min
 Lab File: VN051956.D
 Acq: 19 Oct 2018 18:54

Tgt Ion: 75 Resp: 306242
 Ion Ratio Lower Upper
 75 100
 53 0.0 68.5 102.7#
 89 0.0 39.0 58.6#

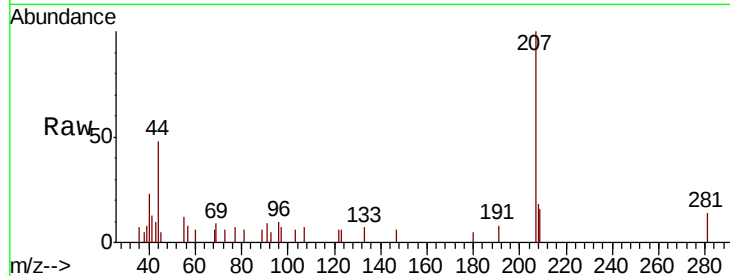




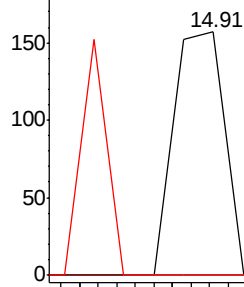
#93
 1,2,4-Trichlorobenzene
 Concen: 4.067 ug/l
 RT: 14.91 min Scan# 4087
 Delta R.T. 0.01 min
 Lab File: VN051956.D
 Acq: 19 Oct 2018 18:54

Instrument :
 MSVOA_N
 ClientSampleId :
 CNL01

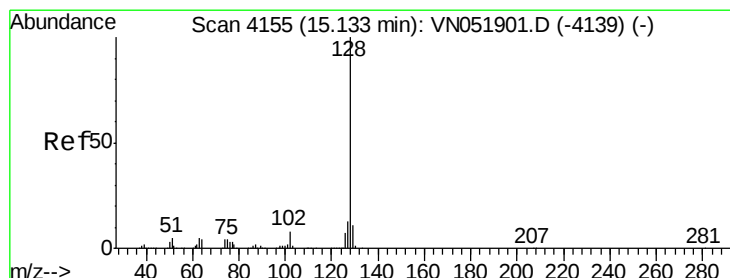
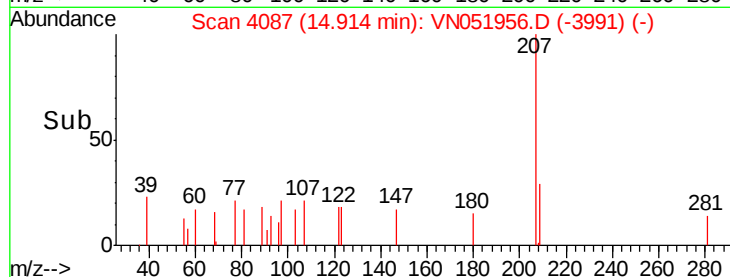
Tot Ion:180 Resp: 60
 Ion Ratio Lower Upper
 180 100
 182 0.0 47.3 141.9#
 145 48.3 14.5 43.5#



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

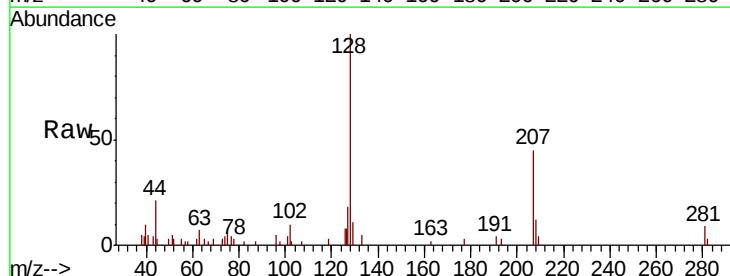


Time-->

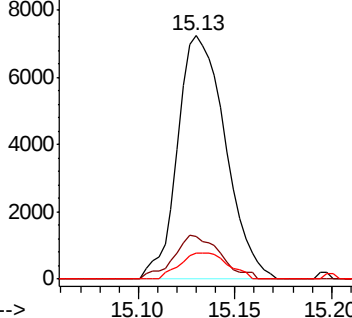


#95
 Naphthalene
 Concen: 4.646 ug/l
 RT: 15.13 min Scan# 4154
 Delta R.T. -0.00 min
 Lab File: VN051956.D
 Acq: 19 Oct 2018 18:54

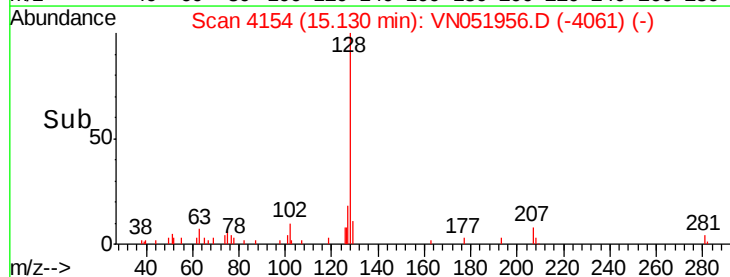
Tgt Ion:128 Resp: 12404
 Ion Ratio Lower Upper
 128 100
 127 17.6 10.2 15.2#
 129 10.9 8.5 12.7

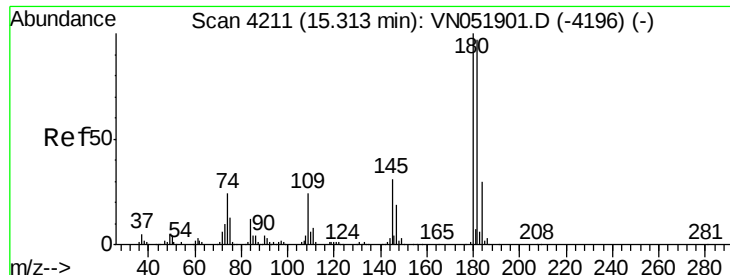


Abundance Ion 128.00 (127.70 to 128.70): V
 Ion 127.00 (126.70 to 127.70): V
 Ion 129.00 (128.70 to 129.70): V



Time-->





#96
 1,2,3-Trichlorobenzene
 Concen: 2.920 ug/l
 RT: 15.32 min Scan# 4212
 Delta R.T. 0.00 min
 Lab File: VN051956.D
 Acq: 19 Oct 2018 18:54

Instrument :
 MSVOA_N
 ClientSampleId :
 CNL01

Tot Ion	Ratio	Lower	Upper
180	100		
182	0.0	47.9	143.8#
145	0.0	15.2	45.6#

