

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN040519\
 Data File : VN054971.D
 Acq On : 5 Apr 2019 14:54
 Operator : JC/SP
 Sample : K2292-03
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Apr 05 23:33:32 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N040419W.M
 Quant Title : SW846 8260
 QLast Update : Fri Apr 05 02:23:47 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	363007	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	653772	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	430222	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	91741	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.03	65	268727	56.15	ug/l	0.00
Spiked Amount			Recovery	=	112.30%	
35) Dibromofluoromethane	7.59	113	226477	53.22	ug/l	0.00
Spiked Amount			Recovery	=	106.44%	
50) Toluene-d8	10.09	98	610064	37.78	ug/l	0.00
Spiked Amount			Recovery	=	75.56%	
62) 4-Bromofluorobenzene	12.40	95	161019	29.88	ug/l	0.00
Spiked Amount			Recovery	=	59.76%	

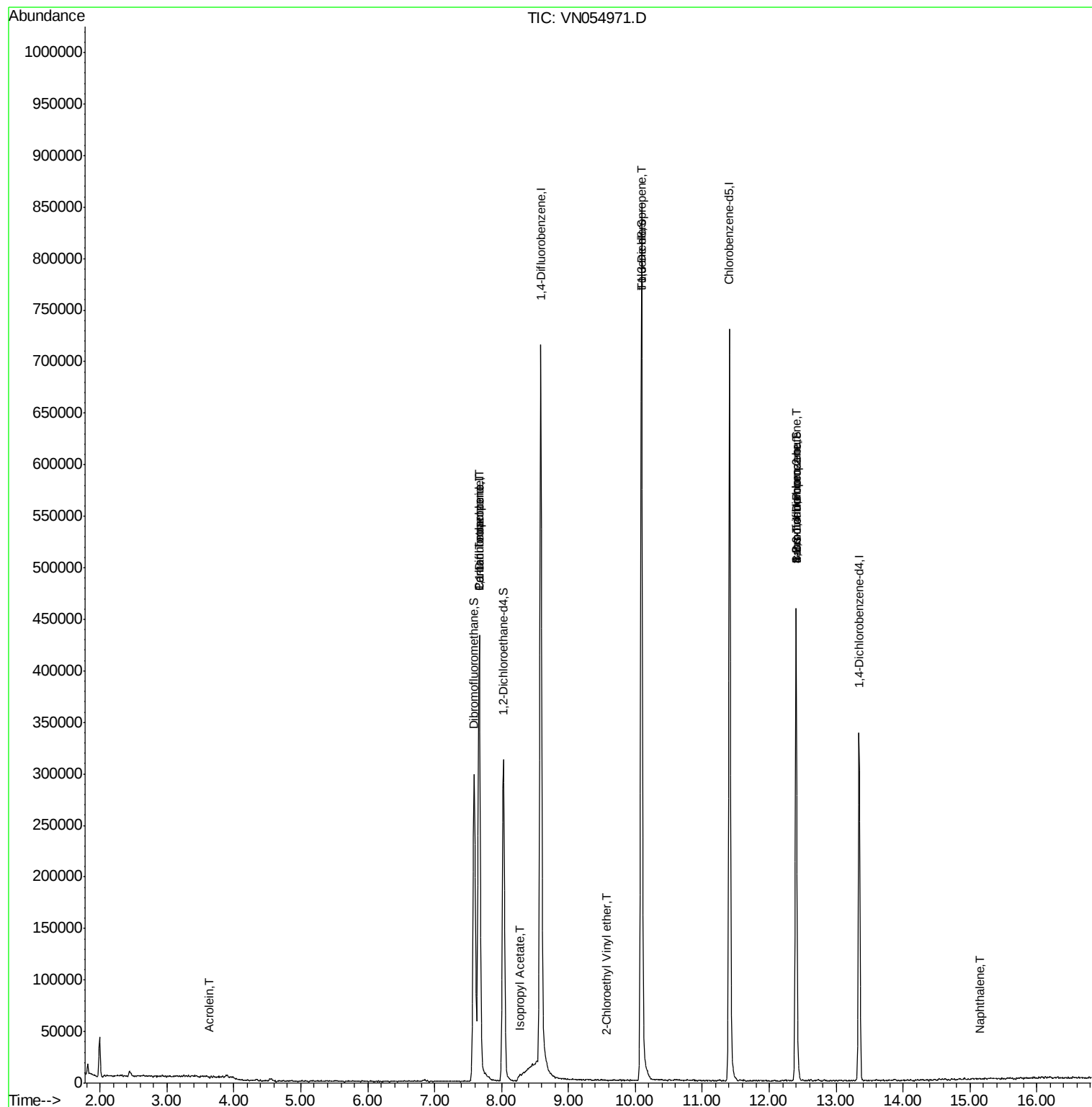
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
13) Acrolein	3.62	56	301	4.953	ug/l #	48
16) Acetone	3.83	43	1467	Below Cal	#	48
18) Methyl Acetate	4.34	43	2021	Below Cal		97
31) Cyclohexane	7.67	56	8733	Below Cal	#	9
36) 1,1-Dichloropropene	7.66	75	27723	4.280	ug/l #	46
38) Carbon Tetrachloride	7.67	117	35069	5.606	ug/l #	17
43) Isopropyl Acetate	8.26	43	3410	0.455	ug/l #	64
53) t-1,3-Dichloropropene	10.09	75	122	2.046	ug/l #	57
58) 2-Chloroethyl Vinyl ether	9.57	63	29	9.866	ug/l #	51
71) Bromoform	12.40	173	1791	0.928	ug/l #	1
75) 1,1,2,2-Tetrachloroethane	12.41	83	97	Below Cal	#	26
76) 1,2,3-Trichloropropane	12.40	75	82191	58.869	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	82191	206.946	ug/l #	4
95) Naphthalene	15.14	128	482	2.999	ug/l #	69

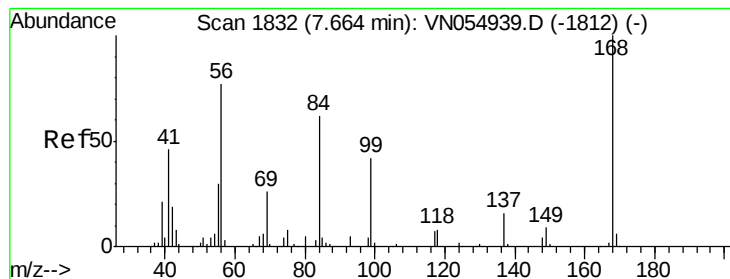
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN054971.D

Acq: 5 Apr 2019 14:54

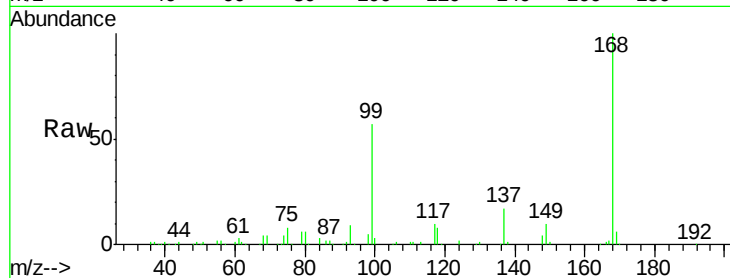
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 363007

Ion Ratio Lower Upper

168 100

99 56.6 44.1 66.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.67

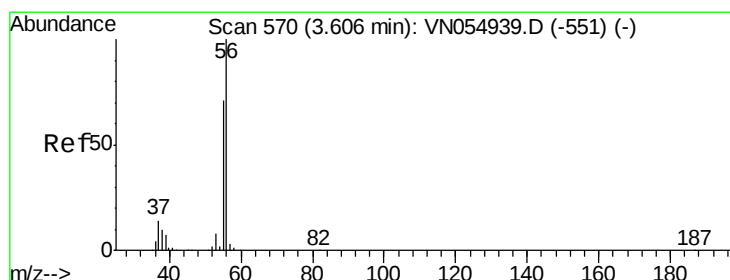
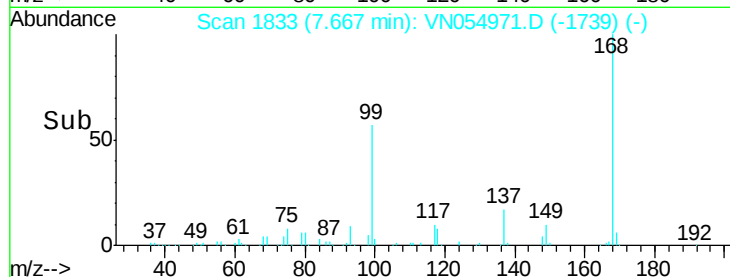
150000

100000

50000

0

Time--> 7.55 7.60 7.65 7.70 7.75



#13

Acrolein

Concen: 4.953 ug/l

RT: 3.62 min Scan# 575

Delta R.T. 0.02 min

Lab File: VN054971.D

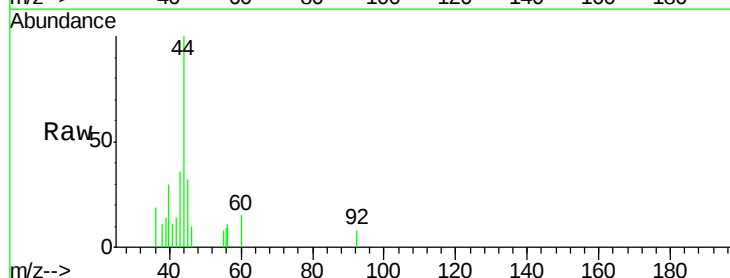
Acq: 5 Apr 2019 14:54

Tgt Ion: 56 Resp: 301

Ion Ratio Lower Upper

56 100

55 29.2 58.6 87.8#



Abundance Ion 56.00 (55.70 to 56.70): VNO

Ion 55.00 (54.70 to 55.70): VNO

3.62

400

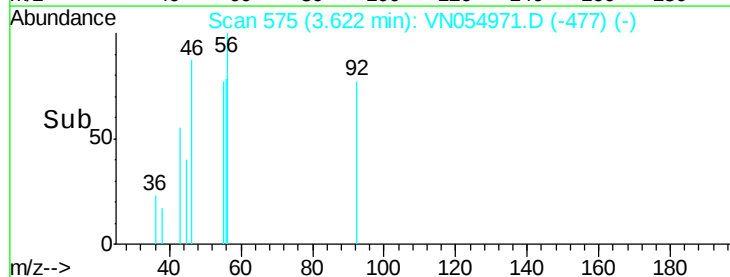
300

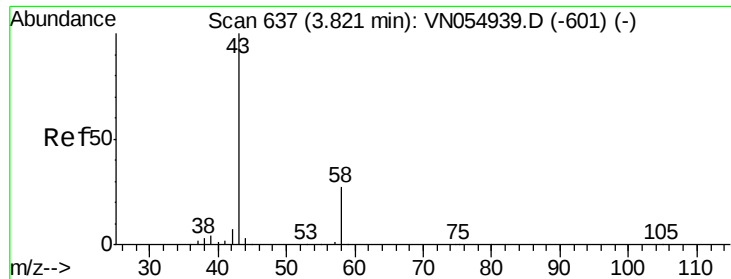
200

100

0

Time--> 3.60 3.62 3.64





#16

Acetone

Concen: Below Cal

RT: 3.83 min Scan# 640

Delta R.T. 0.01 min

Lab File: VN054971.D

Acq: 5 Apr 2019 14:54

Instrument :

MSVOA_N

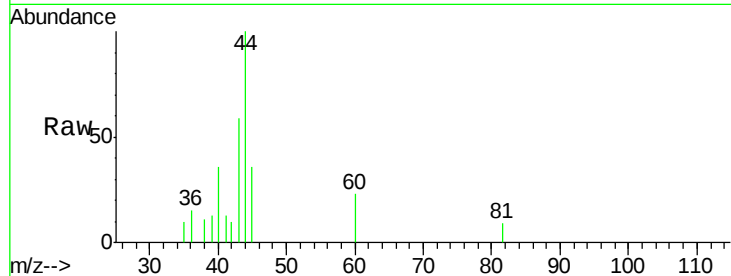
ClientSampleId :

Tot Ion: 43 Resp: 1467

Ion Ratio Lower Upper

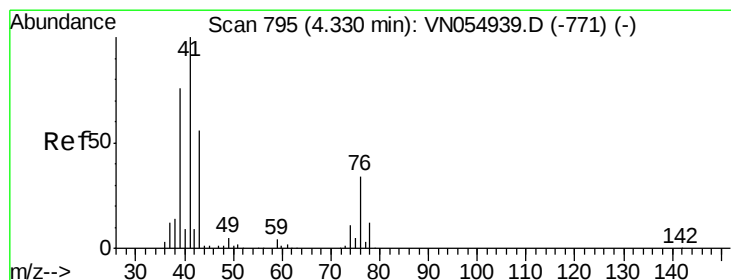
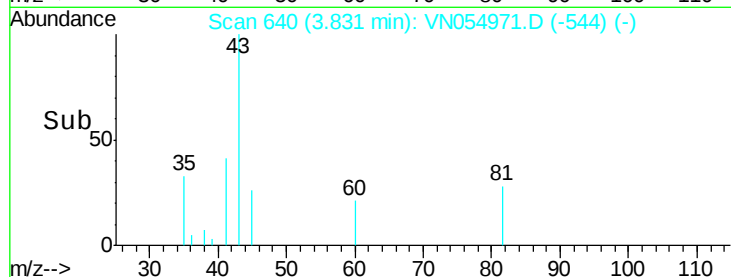
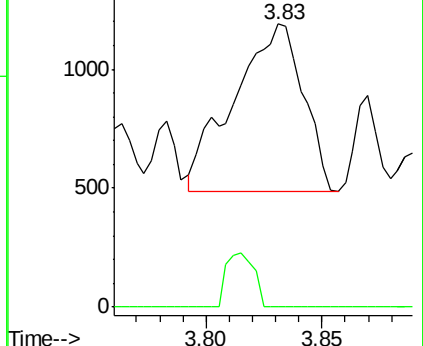
43 100

58 0.0 21.7 32.5#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#18

Methyl Acetate

Concen: Below Cal

RT: 4.34 min Scan# 799

Delta R.T. 0.01 min

Lab File: VN054971.D

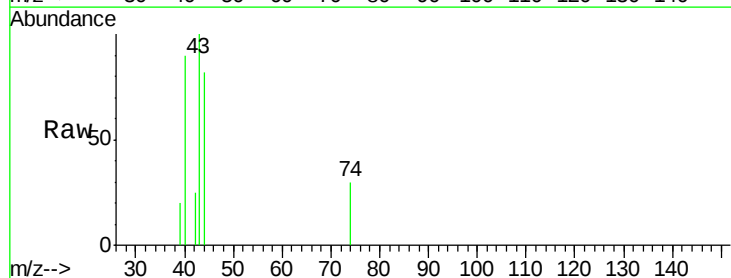
Acq: 5 Apr 2019 14:54

Tgt Ion: 43 Resp: 2021

Ion Ratio Lower Upper

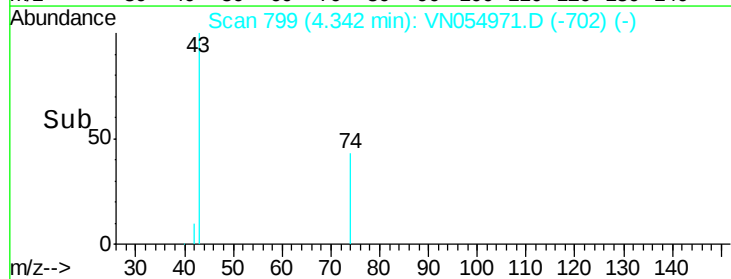
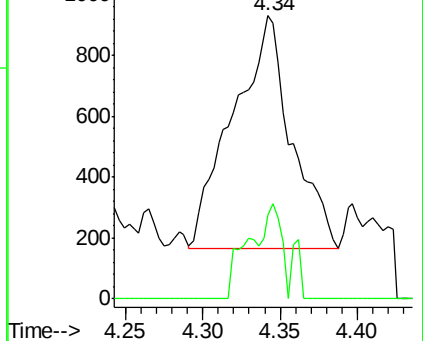
43 100

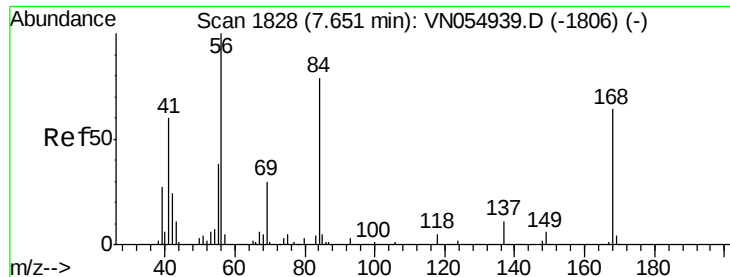
74 22.1 16.4 24.6



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

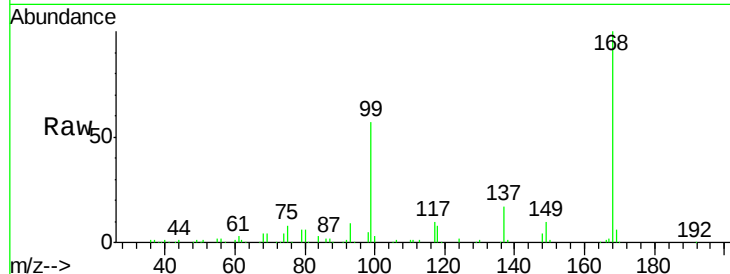




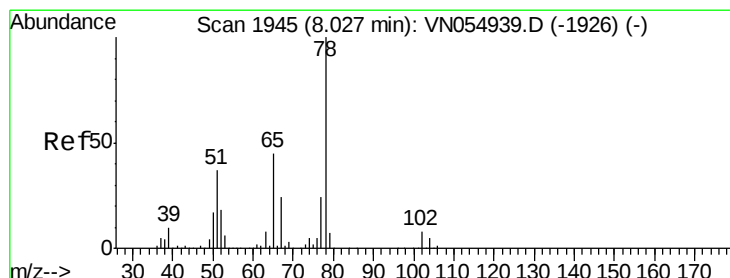
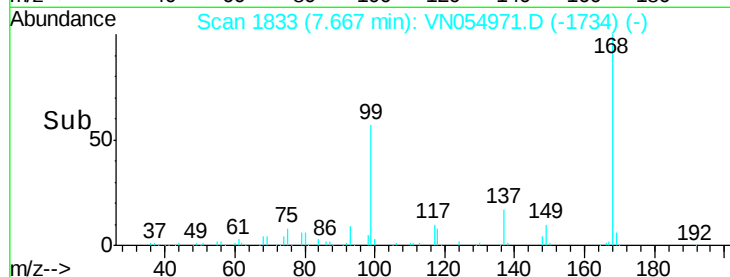
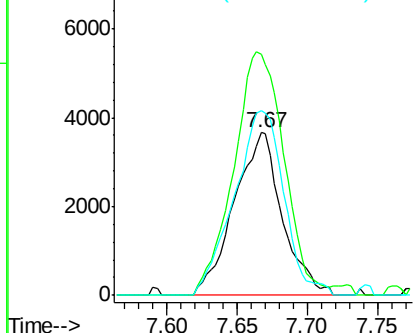
#31
Cyclohexane
Concen: Below Cal
RT: 7.67 min Scan# 1833
Delta R.T. 0.02 min
Lab File: VN054971.D
Acq: 5 Apr 2019 14:54

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 56 Resp: 8733
Ion Ratio Lower Upper
56 100
69 147.9 23.8 35.6#
84 113.4 61.8 92.8#

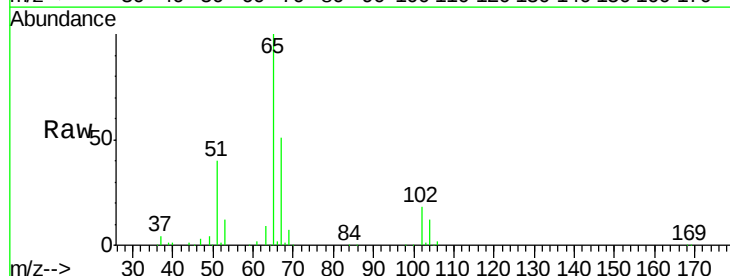


Abundance Ion 56.00 (55.70 to 56.70): VNC
Ion 69.00 (68.70 to 69.70): VNC
Ion 84.00 (83.70 to 84.70): VNC

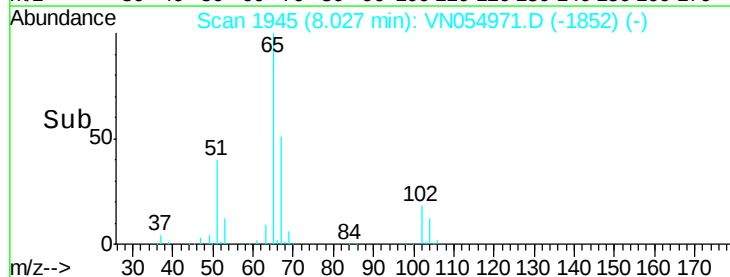
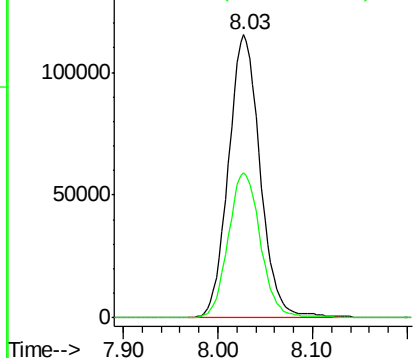


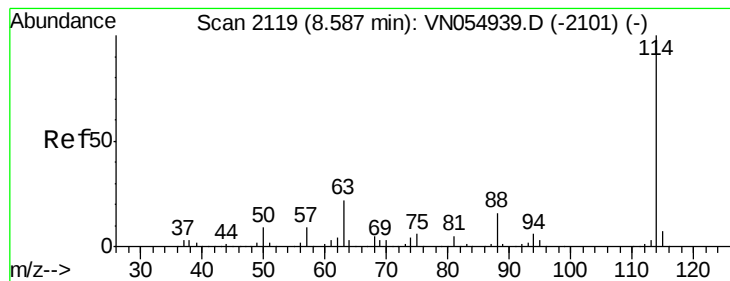
#33
1,2-Dichloroethane-d4
Concen: 56.147 ug/l
RT: 8.03 min Scan# 1945
Delta R.T. 0.00 min
Lab File: VN054971.D
Acq: 5 Apr 2019 14:54

Tgt Ion: 65 Resp: 268727
Ion Ratio Lower Upper
65 100
67 52.2 0.0 105.6



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





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.59 min Scan# 2119

Delta R.T. 0.00 min

Lab File: VN054971.D

Acq: 5 Apr 2019 14:54

Instrument :

MSVOA_N

ClientSampleId :

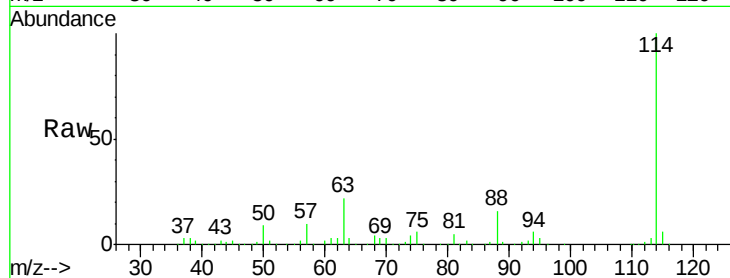
Tot Ion:114 Resp: 653772

Ion Ratio Lower Upper

114 100

63 22.4 0.0 44.6

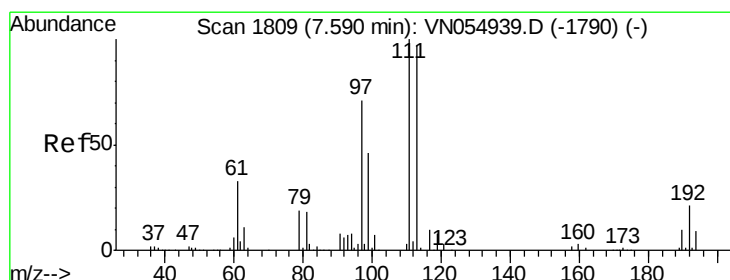
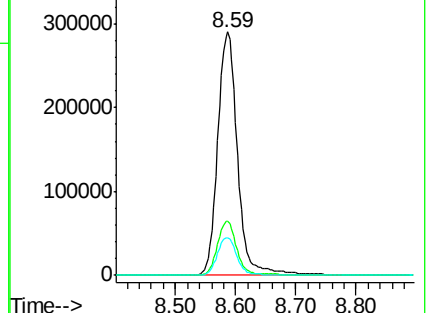
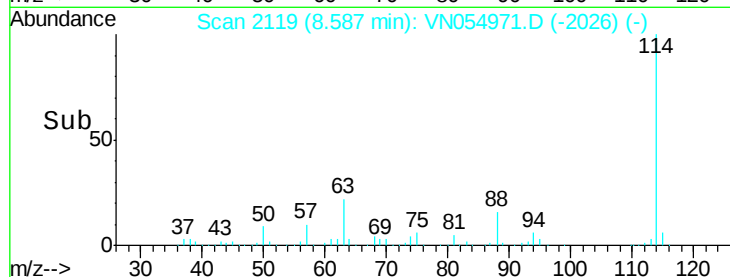
88 15.7 0.0 32.0



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: 53.216 ug/l

RT: 7.59 min Scan# 1809

Delta R.T. 0.00 min

Lab File: VN054971.D

Acq: 5 Apr 2019 14:54

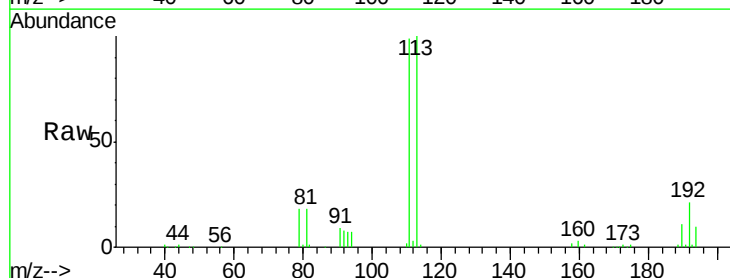
Tgt Ion:113 Resp: 226477

Ion Ratio Lower Upper

113 100

111 101.6 81.0 121.4

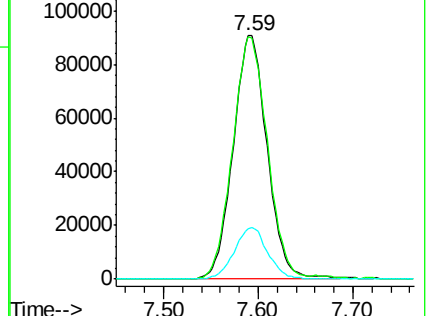
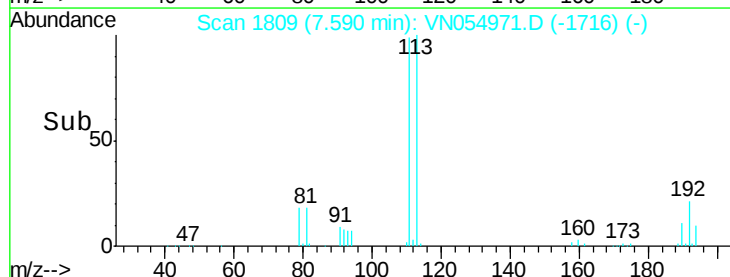
192 20.8 16.5 24.7

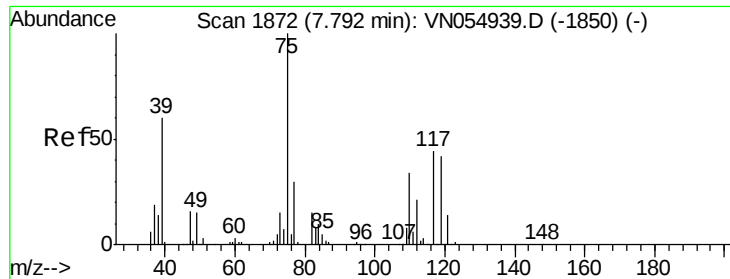


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

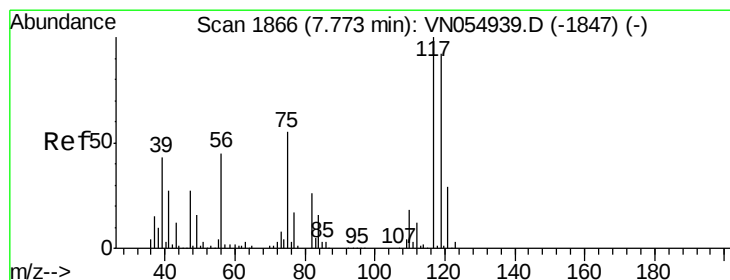
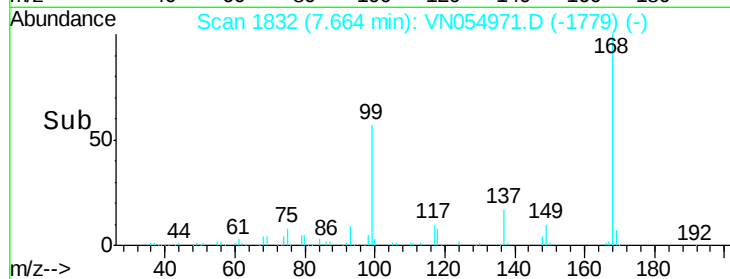
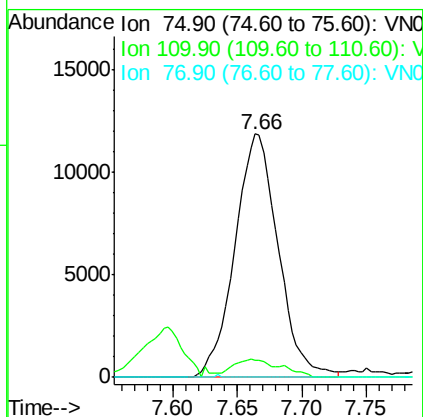
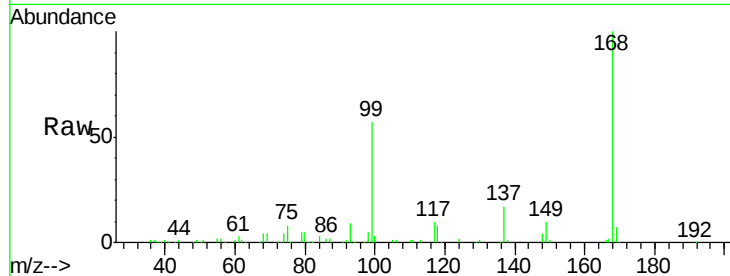




#36
 1,1-Dichloropropene
 Concen: 4.280 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.13 min
 Lab File: VN054971.D
 Acq: 5 Apr 2019 14:54

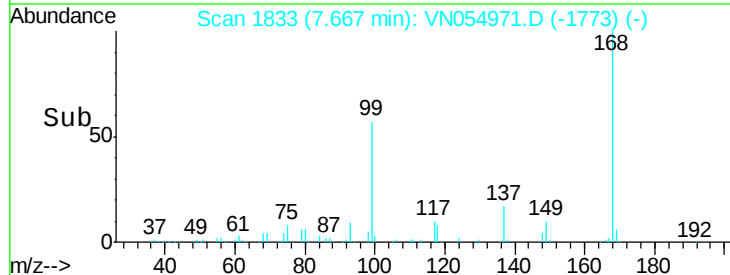
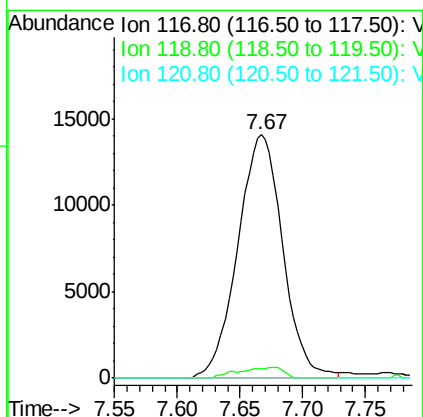
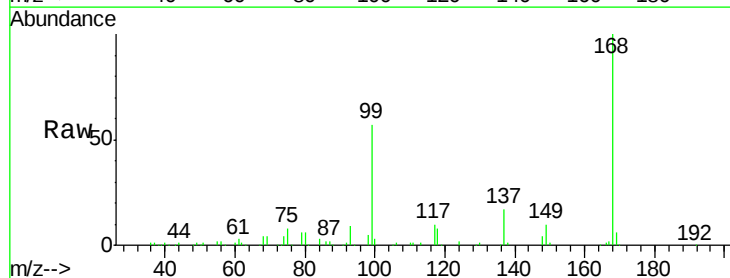
Instrument :
 MSVOA_N
 ClientSampleId :

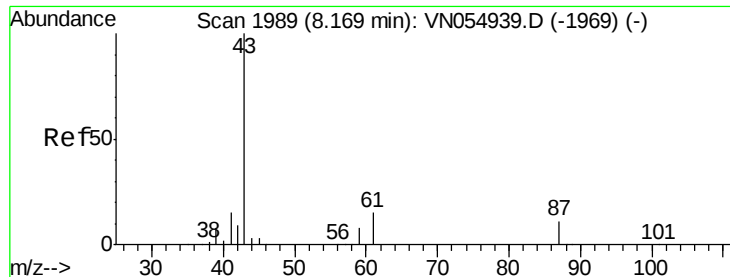
Tot Ion: 75 Resp: 27723
 Ion Ratio Lower Upper
 75 100
 110 4.1 17.0 50.9#
 77 0.0 25.3 37.9#



#38
 Carbon Tetrachloride
 Concen: 5.606 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.11 min
 Lab File: VN054971.D
 Acq: 5 Apr 2019 14:54

Tgt Ion: 117 Resp: 35069
 Ion Ratio Lower Upper
 117 100
 119 3.8 73.6 110.4#
 121 0.0 23.4 35.0#





#43

Isopropyl Acetate

Concen: 0.455 ug/l

RT: 8.26 min Scan# 2018

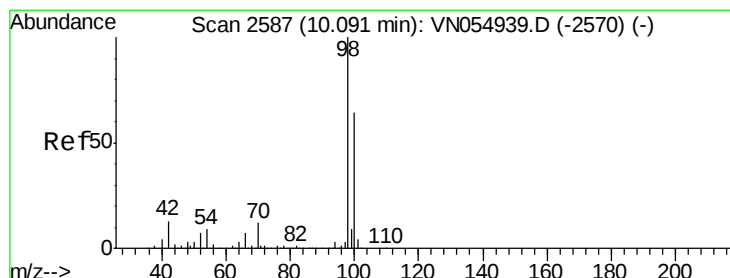
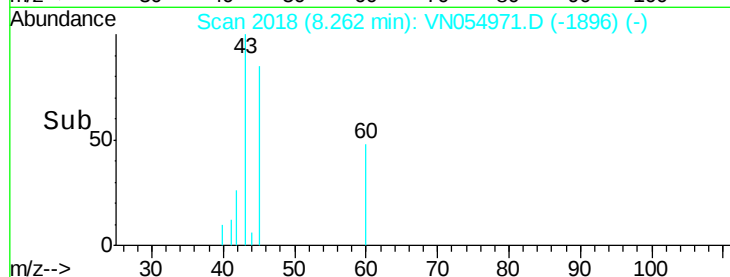
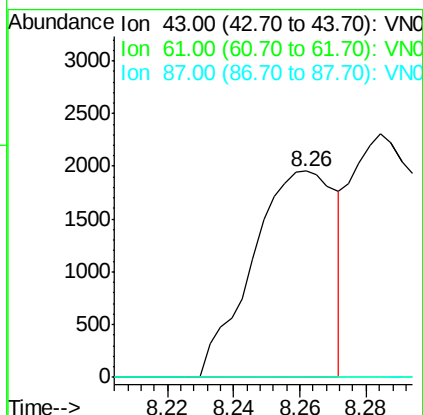
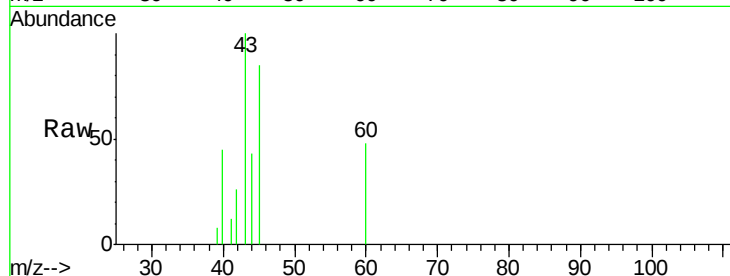
Delta R.T. 0.09 min

Lab File: VN054971.D

Acq: 5 Apr 2019 14:54

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 43 Resp: 3410
Ion Ratio Lower Upper
43 100
61 0.0 14.4 21.6#
87 0.0 9.0 13.4#



#50

Toluene-d8

Concen: 37.779 ug/l

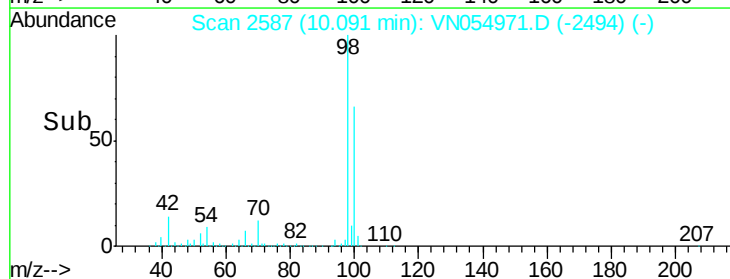
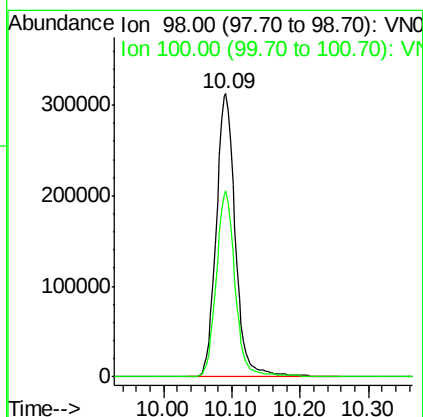
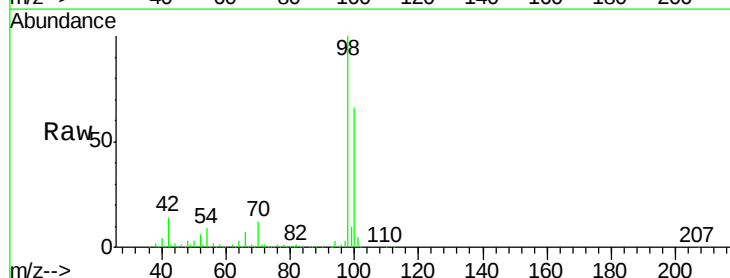
RT: 10.09 min Scan# 2587

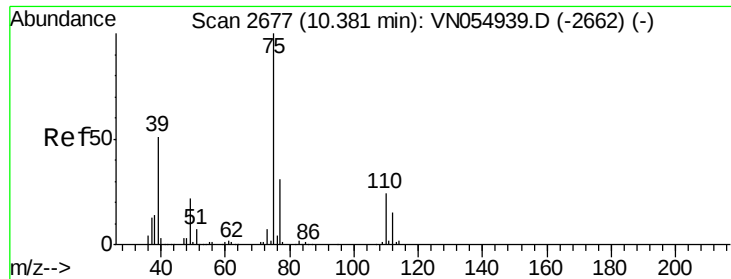
Delta R.T. 0.00 min

Lab File: VN054971.D

Acq: 5 Apr 2019 14:54

Tgt Ion: 98 Resp: 610064
Ion Ratio Lower Upper
98 100
100 64.7 51.5 77.3





#53

t-1,3-Dichloropropene

Concen: 2.046 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.29 min

Lab File: VN054971.D

Acq: 5 Apr 2019 14:54

Instrument :

MSVOA_N

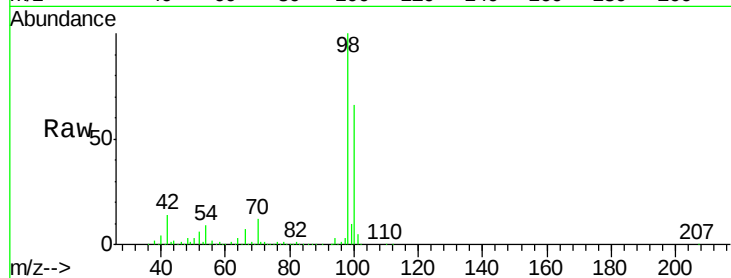
ClientSampleId :

Tot Ion: 75 Resp: 122

Ion Ratio Lower Upper

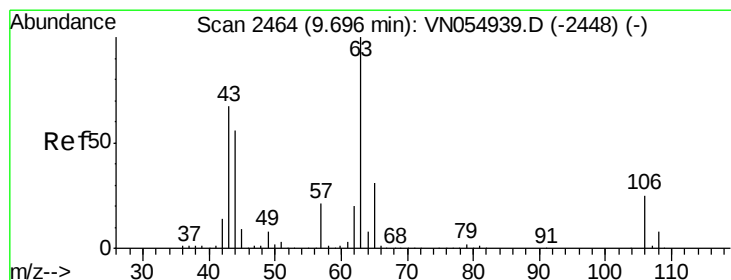
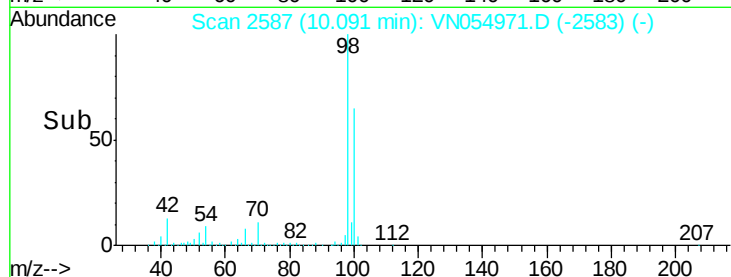
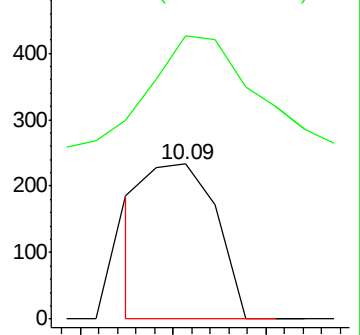
75 100

77 54.1 24.6 36.8#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0



#58

2-Chloroethyl Vinyl ether

Concen: 9.866 ug/l

RT: 9.57 min Scan# 2426

Delta R.T. -0.12 min

Lab File: VN054971.D

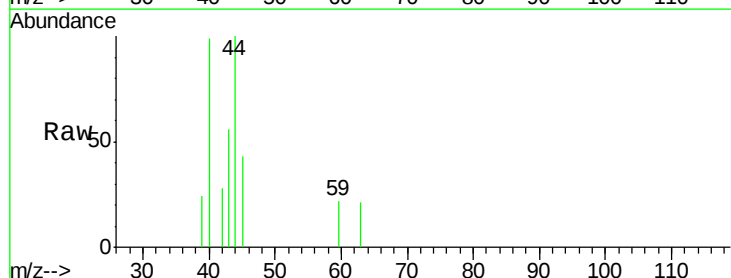
Acq: 5 Apr 2019 14:54

Tgt Ion: 63 Resp: 29

Ion Ratio Lower Upper

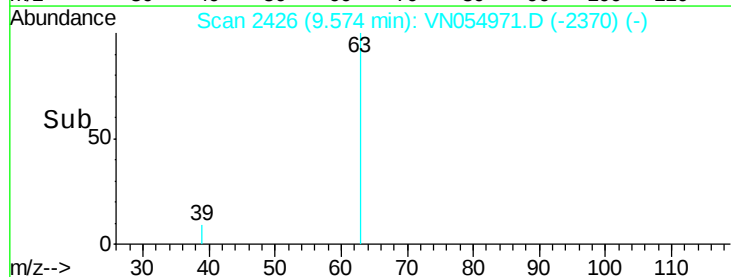
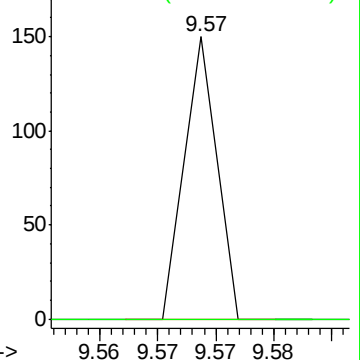
63 100

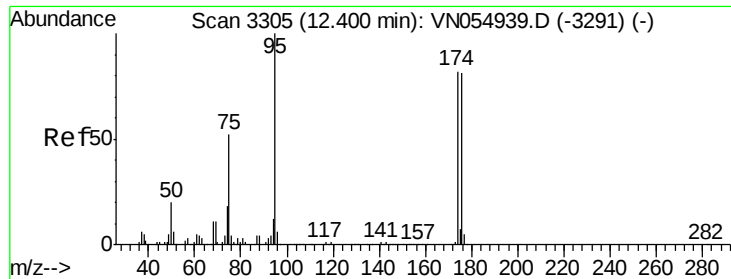
106 0.0 19.7 29.5#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 105.90 (105.60 to 106.60): V

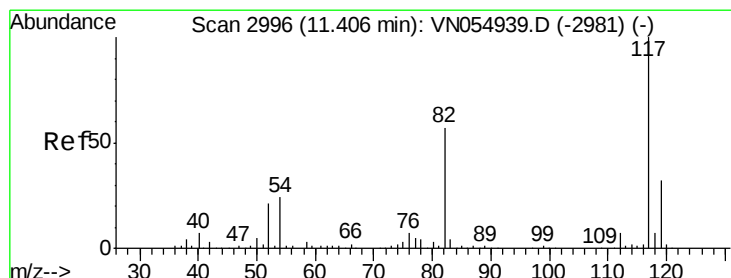
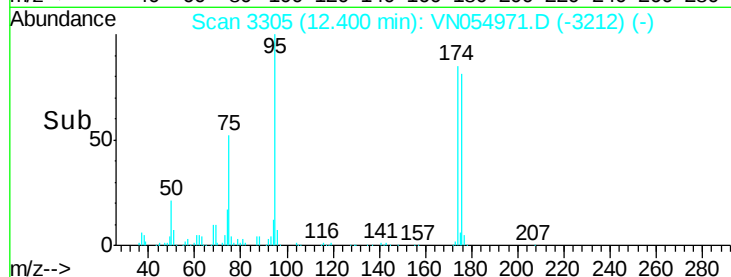
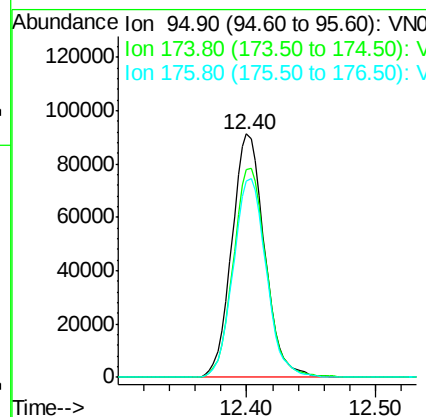
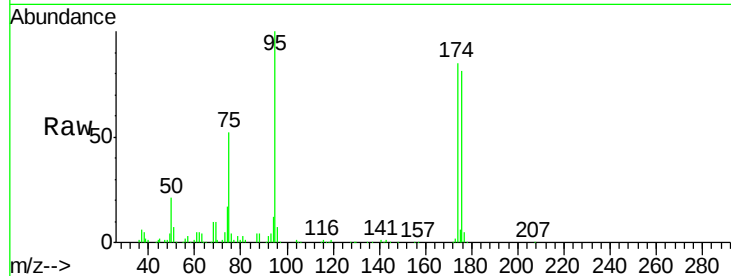




#62
4-Bromofluorobenzene
Concen: 29.879 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.00 min
Lab File: VN054971.D
Acq: 5 Apr 2019 14:54

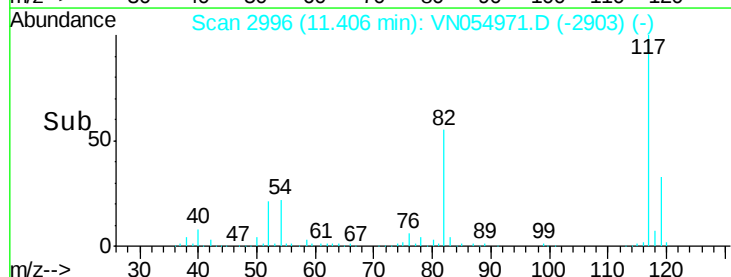
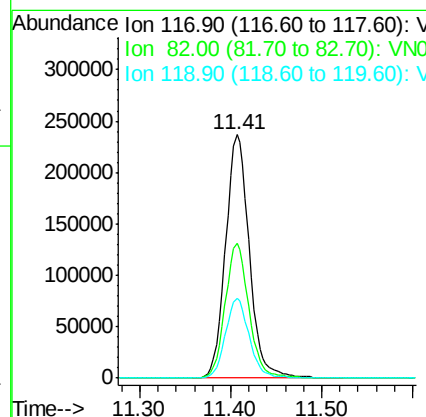
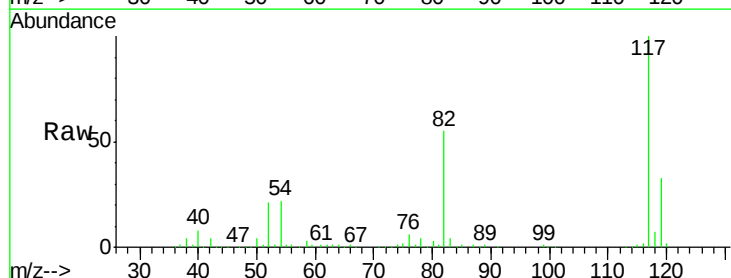
Instrument :
MSVOA_N
ClientSampleId :

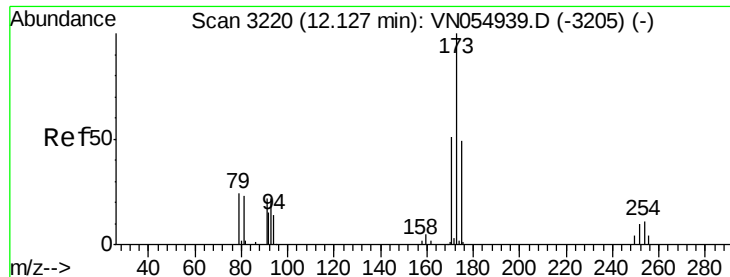
Tot Ion: 95 Resp: 161019
Ion Ratio Lower Upper
95 100
174 86.9 0.0 166.2
176 82.1 0.0 163.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN054971.D
Acq: 5 Apr 2019 14:54

Tgt Ion: 117 Resp: 430222
Ion Ratio Lower Upper
117 100
82 55.4 45.3 67.9
119 32.6 25.8 38.6





#71

Bromoform

Concen: 0.928 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.28 min

Lab File: VN054971.D

Acq: 5 Apr 2019 14:54

Instrument :

MSVOA_N

ClientSampleId :

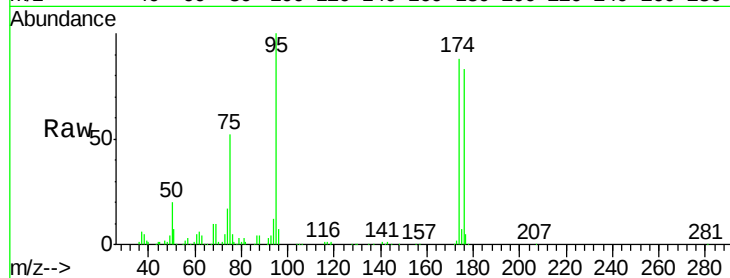
Tot Ion:173 Resp: 1791

Ion Ratio Lower Upper

173 100

175 475.1 24.1 72.4#

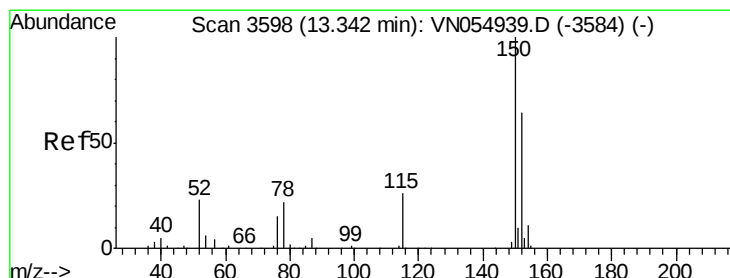
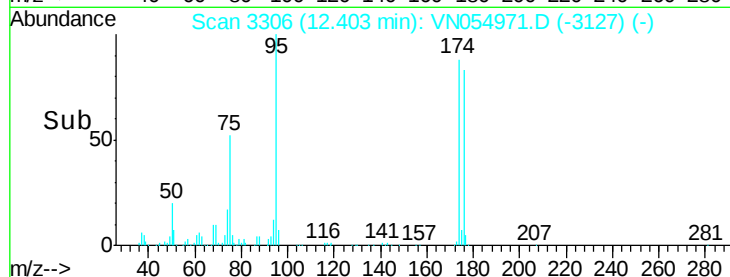
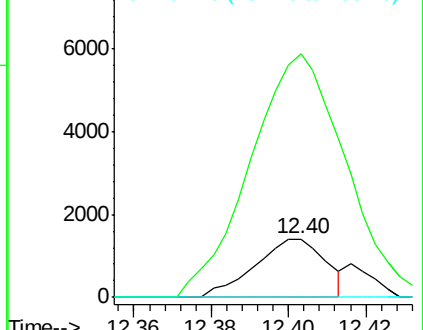
254 0.0 0.0 0.0



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: VN054971.D

Acq: 5 Apr 2019 14:54

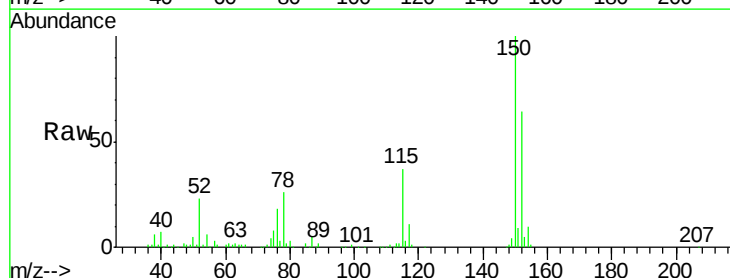
Tgt Ion:152 Resp: 91741

Ion Ratio Lower Upper

152 100

115 57.9 28.9 86.8

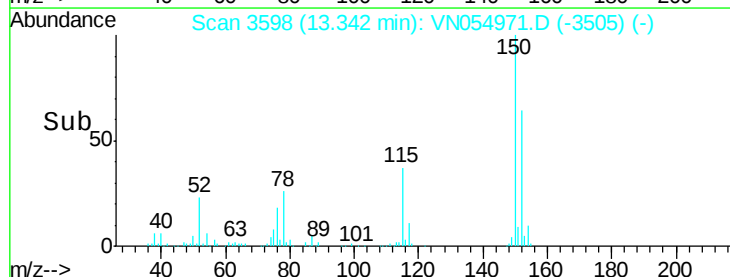
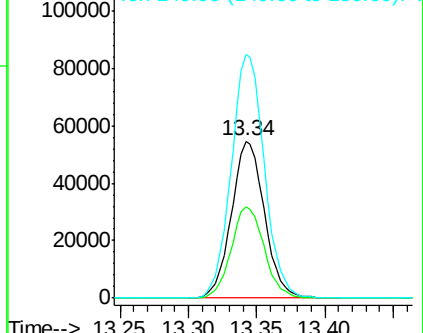
150 155.6 0.0 345.4

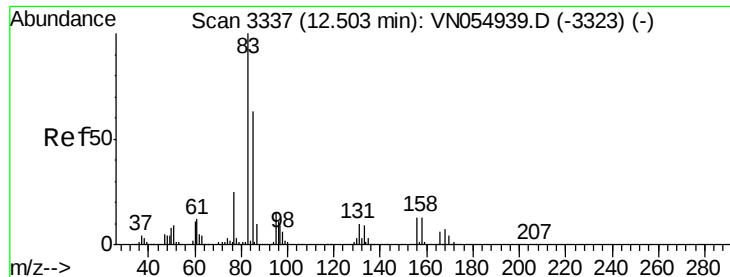


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.41 min Scan# 3309

Delta R.T. -0.09 min

Lab File: VN054971.D

Acq: 5 Apr 2019 14:54

Instrument :

MSVOA_N

ClientSampleId :

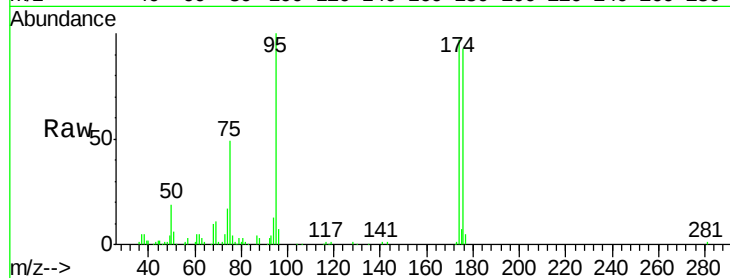
Tot Ion: 83 Resp: 97

Ion Ratio Lower Upper

83 100

131 0.0 5.0 15.0#

85 0.0 31.4 94.0#



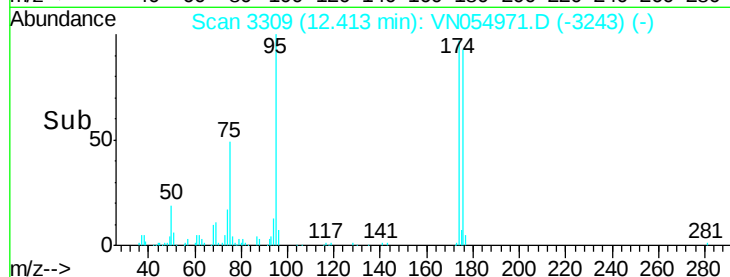
Abundance Ion 82.90 (82.60 to 83.60): VN0

Ion 130.80 (130.50 to 131.50): VN0

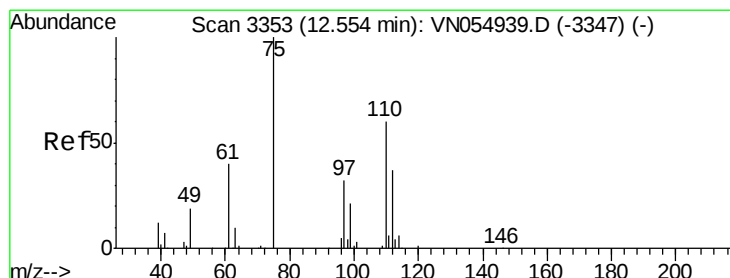
Ion 84.90 (84.60 to 85.60): VN0

12.41

12.42



Time-->



#76

1,2,3-Trichloropropane

Concen: 58.869 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN054971.D

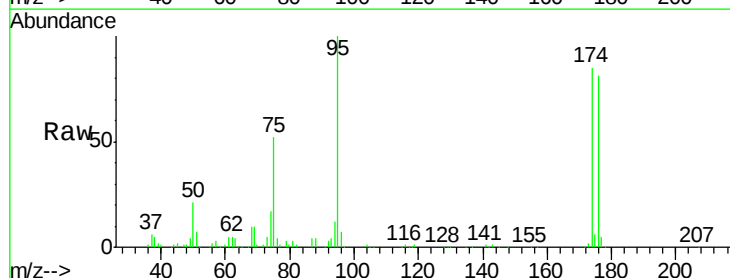
Acq: 5 Apr 2019 14:54

Tgt Ion: 75 Resp: 82191

Ion Ratio Lower Upper

75 100

77 1.3 0.0 0.0#

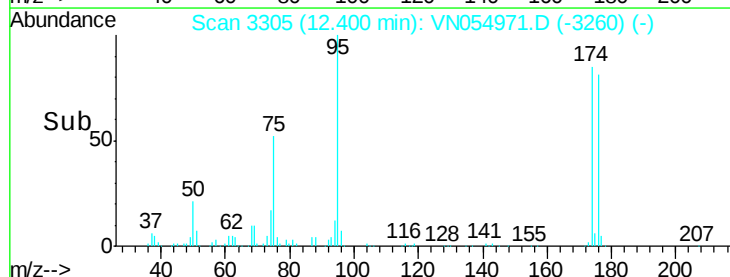


Abundance Ion 74.90 (74.60 to 75.60): VN0

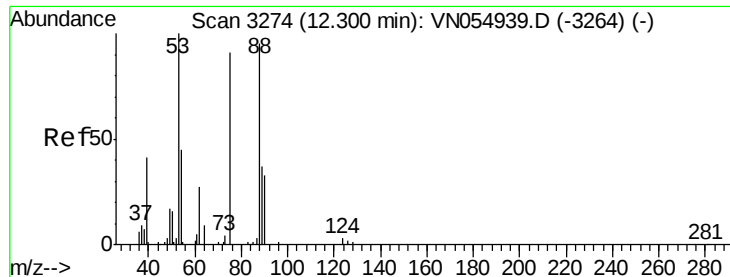
Ion 77.00 (76.70 to 77.70): VN0

12.40

12.50



Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 206.946 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN054971.D

Acq: 5 Apr 2019 14:54

Instrument :

MSVOA_N

ClientSampleId :

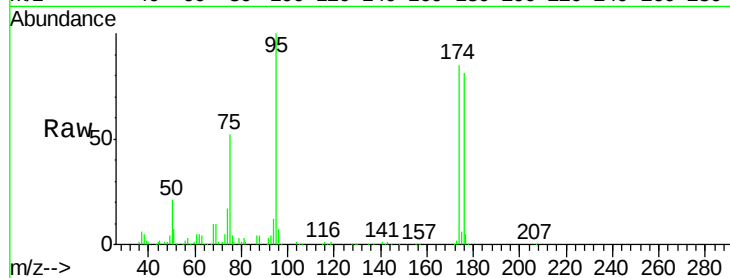
Tot Ion: 75 Resp: 82191

Ion Ratio Lower Upper

75 100

53 0.0 92.8 139.2#

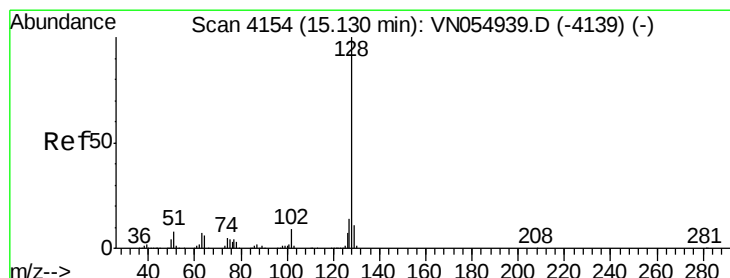
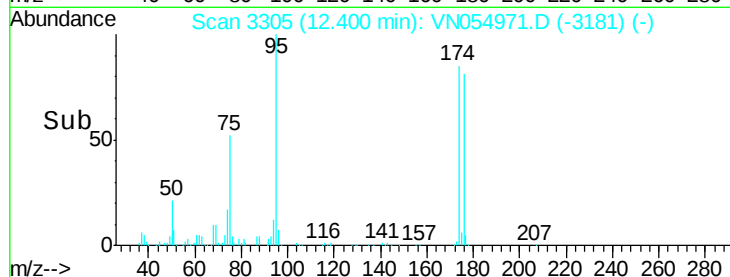
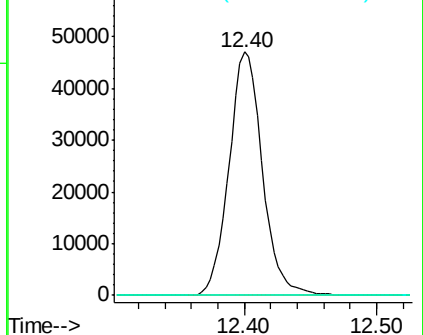
89 0.0 36.7 55.1#



Abundance Ion 74.90 (74.60 to 75.60): VN054971.D (-3181) (-)

Ion 53.00 (52.70 to 53.70): VN054971.D (-3181) (-)

Ion 88.90 (88.60 to 89.60): VN054971.D (-3181) (-)



#95

Naphthalene

Concen: 2.999 ug/l

RT: 15.14 min Scan# 4158

Delta R.T. 0.01 min

Lab File: VN054971.D

Acq: 5 Apr 2019 14:54

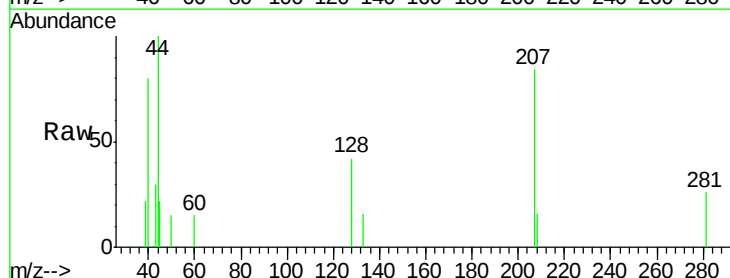
Tgt Ion: 128 Resp: 482

Ion Ratio Lower Upper

128 100

127 0.0 10.6 16.0#

129 0.0 8.6 13.0#



Abundance Ion 128.00 (127.70 to 128.70): VN054971.D (-4060) (-)

Ion 127.00 (126.70 to 127.70): VN054971.D (-4060) (-)

Ion 129.00 (128.70 to 129.70): VN054971.D (-4060) (-)

