

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN121918\
 Data File : VN052998.D
 Acq On : 19 Dec 2018 9:29
 Operator : MD\SY
 Sample : VN1219WBL01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 3 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Dec 20 05:15:43 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N121818W.M
 Quant Title : SW846 8260
 QLast Update : Tue Dec 18 13:03:37 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	1279844	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1954957	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1721884	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	679701	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.02	65	618096	47.59	ug/l	0.00
Spiked Amount			Recovery	=	95.18%	
35) Dibromofluoromethane	7.59	113	501271	56.13	ug/l	0.00
Spiked Amount			Recovery	=	112.26%	
50) Toluene-d8	10.09	98	2370495	49.45	ug/l	0.00
Spiked Amount			Recovery	=	98.90%	
62) 4-Bromofluorobenzene	12.40	95	764720	45.44	ug/l	0.00
Spiked Amount			Recovery	=	90.88%	

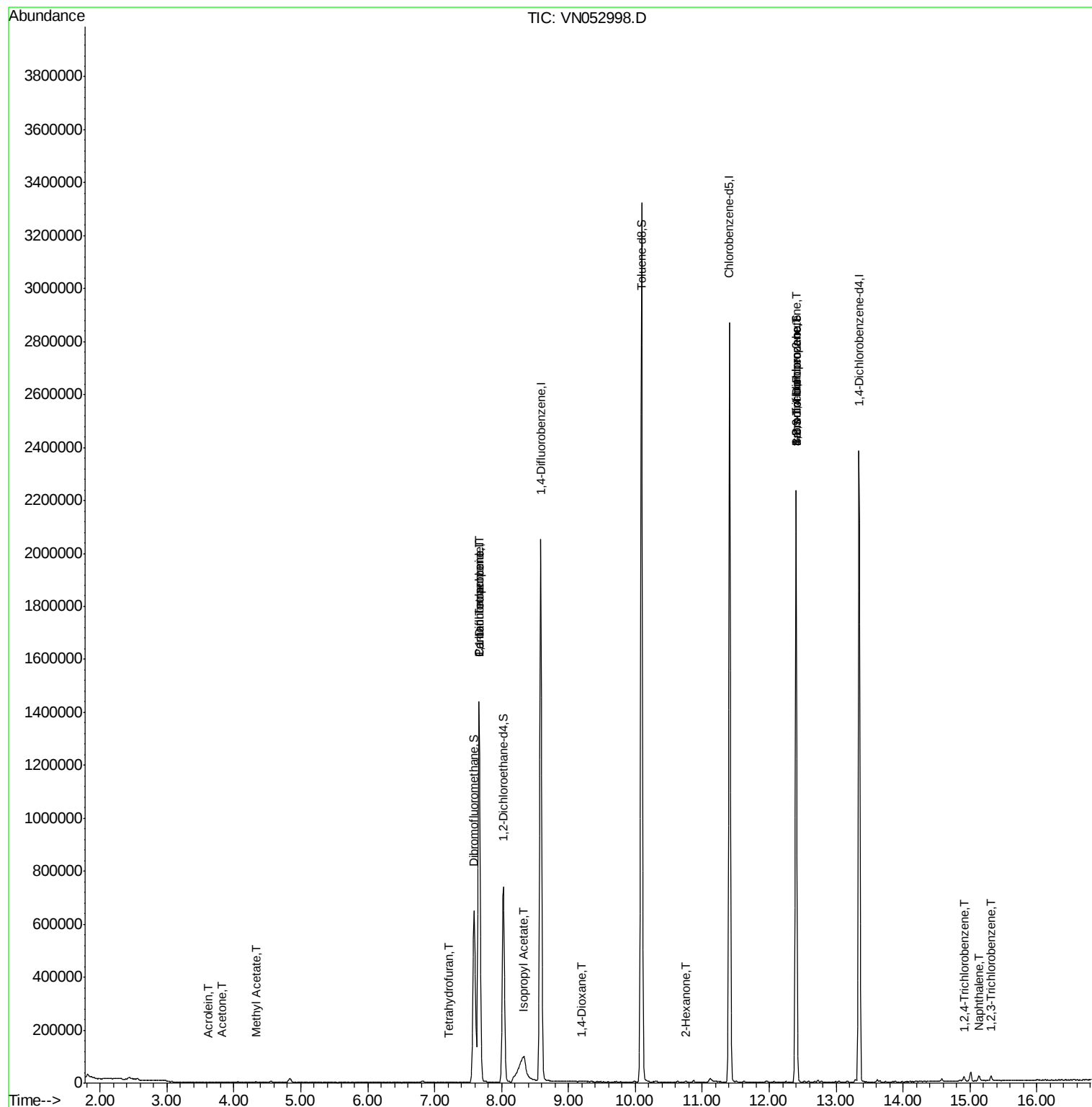
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
13) Acrolein	3.62	56	621	0.864	ug/l #	70
16) Acetone	3.82	43	1878	0.737	ug/l #	88
18) Methyl Acetate	4.33	43	4428	1.367	ug/l #	68
29) Tetrahydrofuran	7.21	42	1152	0.361	ug/l #	51
31) Cyclohexane	7.66	56	20418	Below Cal	#	1
36) 1,1-Dichloropropene	7.67	75	83173	4.433	ug/l #	48
38) Carbon Tetrachloride	7.67	117	111166	6.463	ug/l #	15
43) Isopropyl Acetate	8.32	43	177186	7.860	ug/l #	53
49) 1,4-Dioxane	9.20	88	61	0.474	ug/l #	1
59) 2-Hexanone	10.75	43	2145	0.313	ug/l	70
71) Bromoform	12.40	173	4547	0.474	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	353613	30.905	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	353613	99.609	ug/l #	12
93) 1,2,4-Trichlorobenzene	14.91	180	6138	1.093	ug/l	98
94) Hexachlorobutadiene	15.01	225	7754	Below Cal		97
95) Naphthalene	15.13	128	17988	1.804	ug/l	98
96) 1,2,3-Trichlorobenzene	15.32	180	7514	1.185	ug/l	96

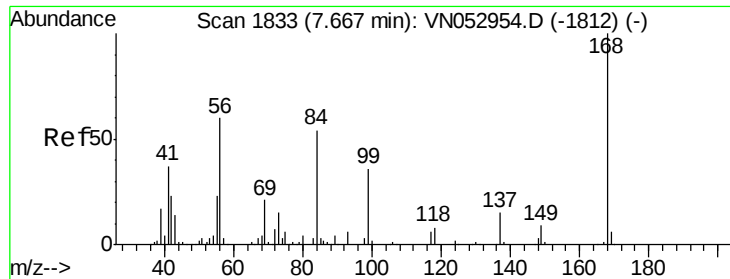
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Tue Dec 18 13:03:37 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.00 min

Lab File: VN052998.D

Acq: 19 Dec 2018 9:29

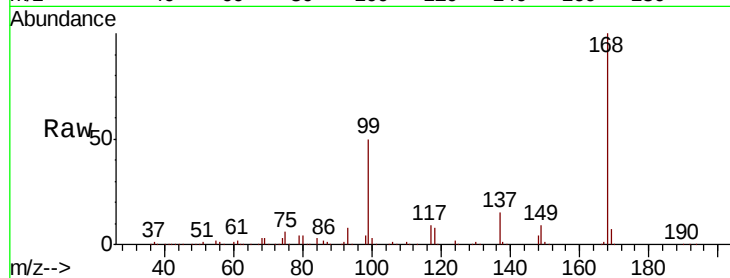
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 1279844

Ion Ratio Lower Upper

168 100

99 50.3 40.2 60.2



Abundance Ion 167.90 (167.60 to 168.60): VN052998.D (-1740) (-)

Ion 98.90 (98.60 to 99.60): VN052998.D (-1740) (-)

7.66

600000

500000

400000

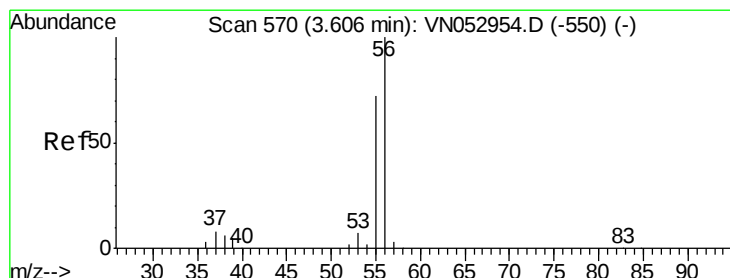
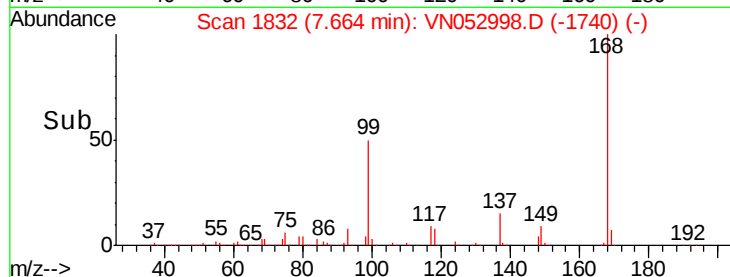
300000

200000

100000

0

Time--> 7.50 7.60 7.70 7.80



#13

Acrolein

Concen: 0.864 ug/l

RT: 3.62 min Scan# 573

Delta R.T. 0.01 min

Lab File: VN052998.D

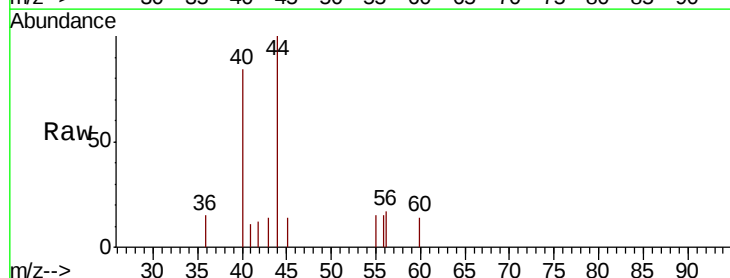
Acq: 19 Dec 2018 9:29

Tgt Ion: 56 Resp: 621

Ion Ratio Lower Upper

56 100

55 95.7 56.6 85.0#



Abundance Ion 56.00 (55.70 to 56.70): VN052998.D (-477) (-)

Ion 55.00 (54.70 to 55.70): VN052998.D (-477) (-)

3.62

500

400

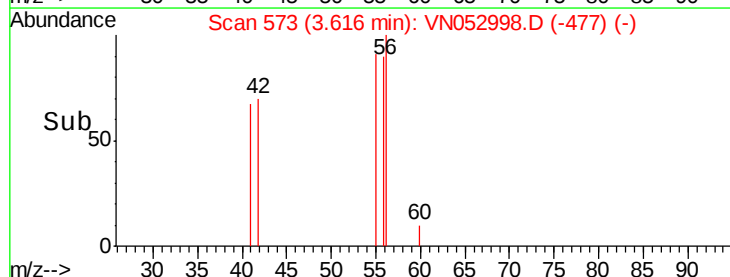
300

200

100

0

Time--> 3.58 3.60 3.62





#16

Acetone

Concen: 0.737 ug/l

RT: 3.82 min Scan# 635

Delta R.T. 0.00 min

Lab File: VN052998.D

Acq: 19 Dec 2018 9:29

Instrument :

MSVOA_N

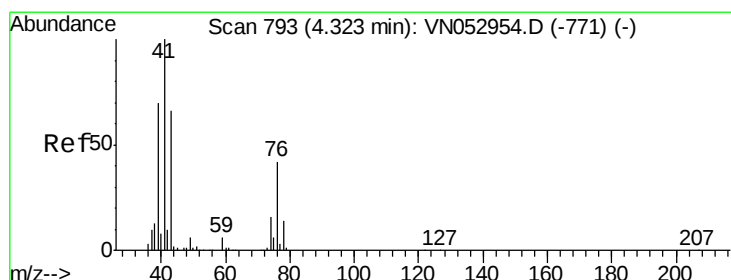
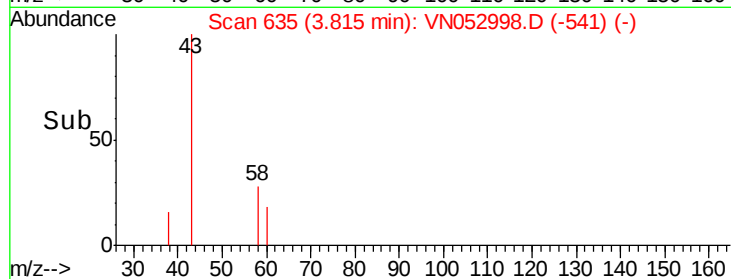
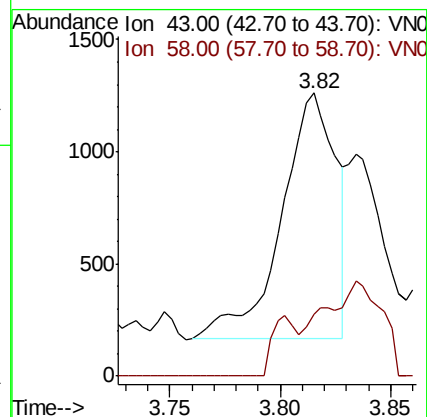
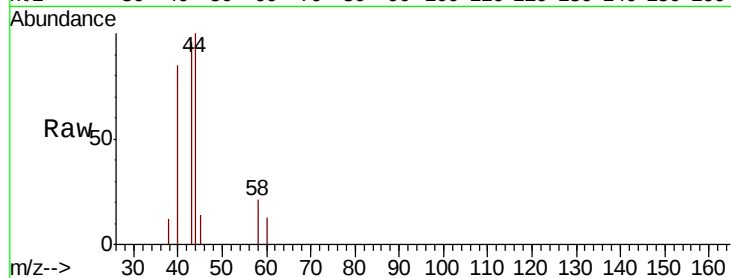
ClientSampleId :

Tot Ion: 43 Resp: 1878

Ion Ratio Lower Upper

43 100

58 25.1 25.4 38.0#



#18

Methyl Acetate

Concen: 1.367 ug/l

RT: 4.33 min Scan# 794

Delta R.T. 0.00 min

Lab File: VN052998.D

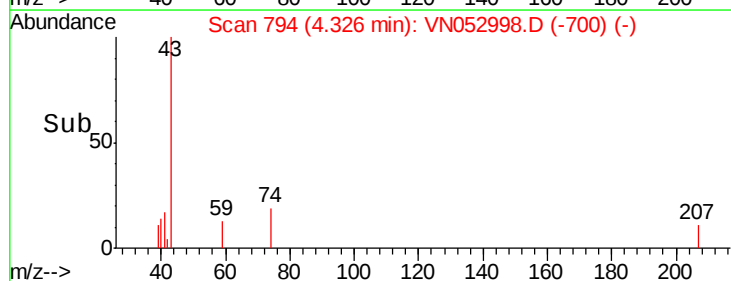
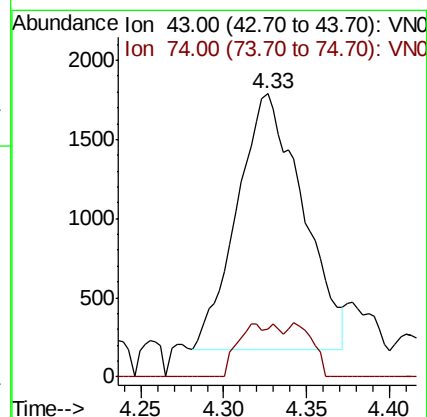
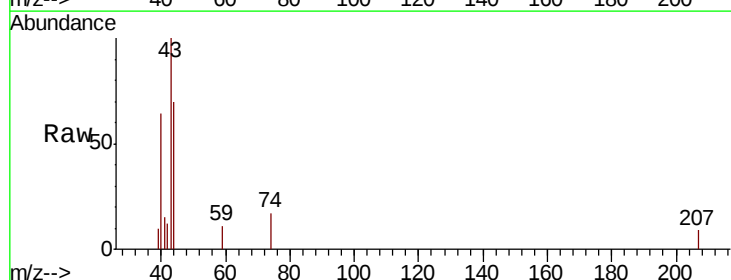
Acq: 19 Dec 2018 9:29

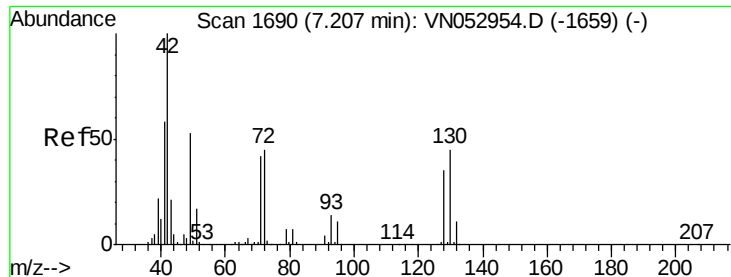
Tgt Ion: 43 Resp: 4428

Ion Ratio Lower Upper

43 100

74 8.1 19.2 28.8#

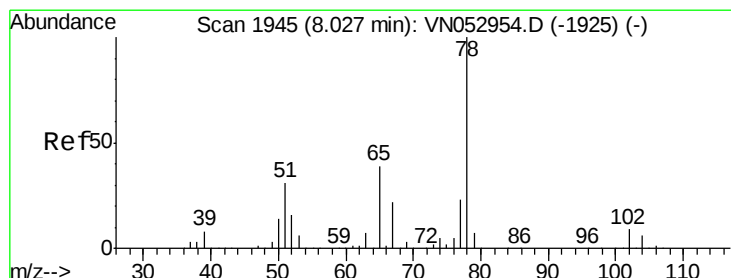
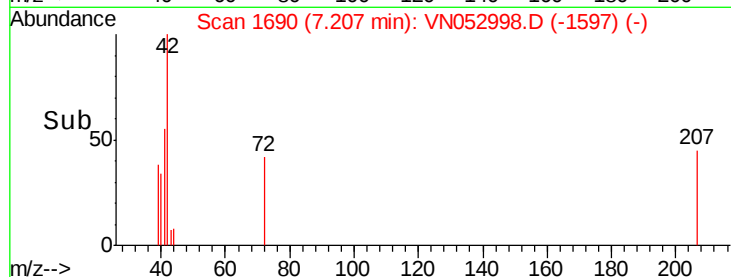
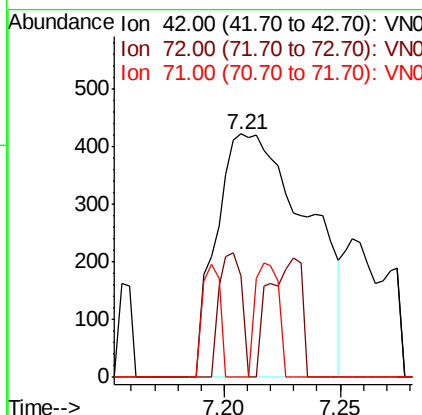
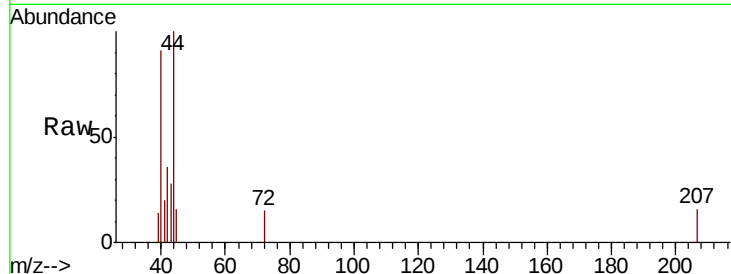




#29
Tetrahydrofuran
Concen: 0.361 ug/l
RT: 7.21 min Scan# 1690
Delta R.T. -0.00 min
Lab File: VN052998.D
Acq: 19 Dec 2018 9:29

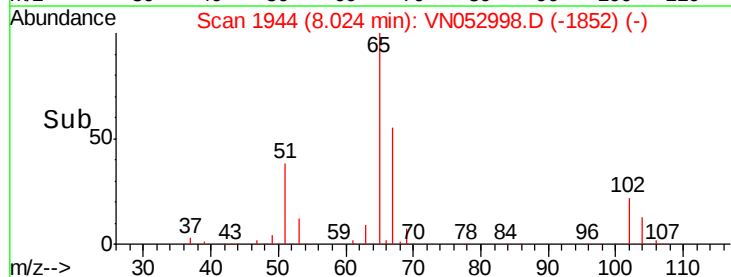
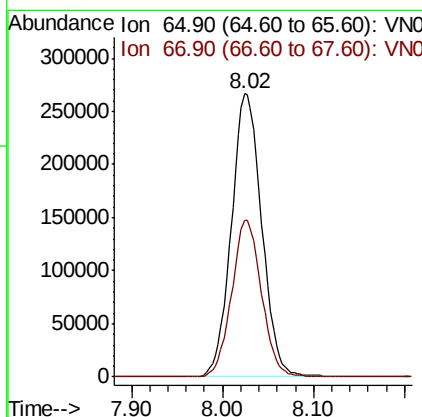
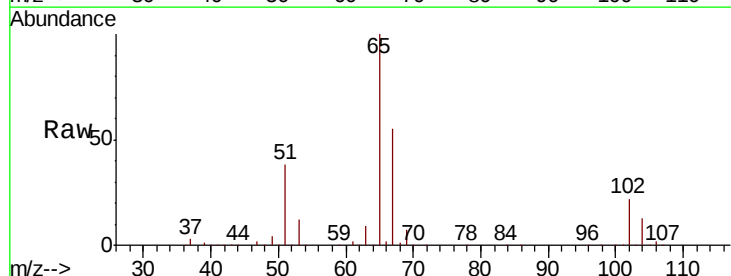
Instrument :
MSVOA_N
ClientSampled :

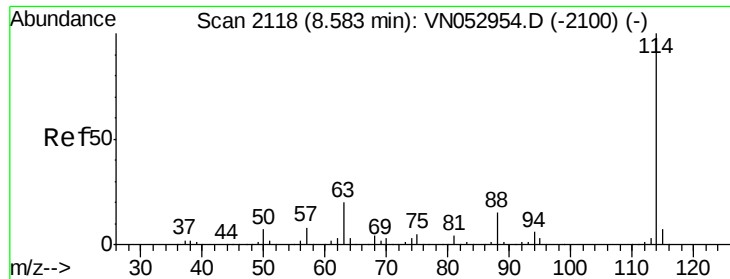
Tot Ion: 42 Resp: 1152
Ion Ratio Lower Upper
42 100
72 12.7 34.7 52.1#
71 8.9 32.3 48.5#



#33
1,2-Dichloroethane-d4
Concen: N.D. ug/l
RT: 8.02 min Scan# 1944
Delta R.T. -0.00 min
Lab File: VN052998.D
Acq: 19 Dec 2018 9:29

Tgt Ion: 65 Resp: 618096
Ion Ratio Lower Upper
65 100
67 54.6 0.0 110.4

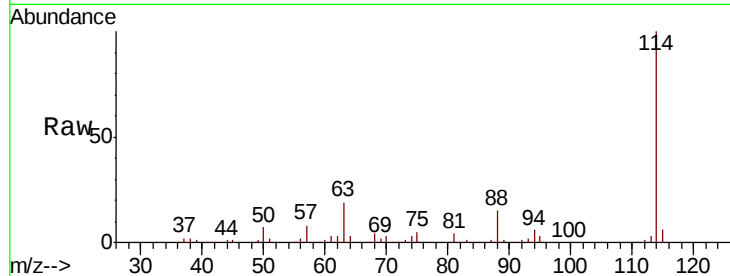




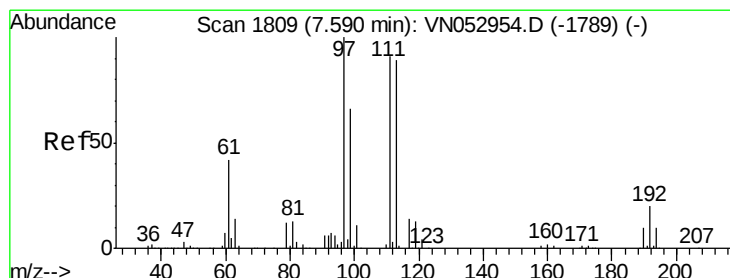
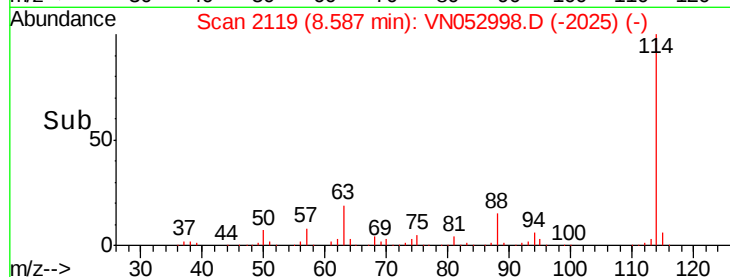
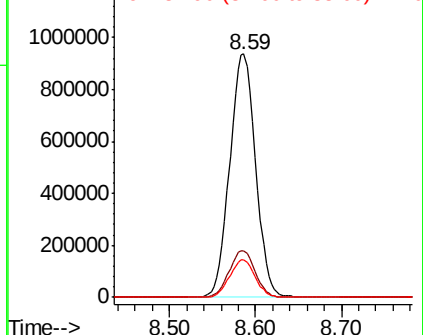
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.59 min Scan# 2119
Delta R.T. 0.00 min
Lab File: VN052998.D
Acq: 19 Dec 2018 9:29

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:114 Resp: 1954957
Ion Ratio Lower Upper
114 100
63 19.1 0.0 39.8
88 15.3 0.0 31.0

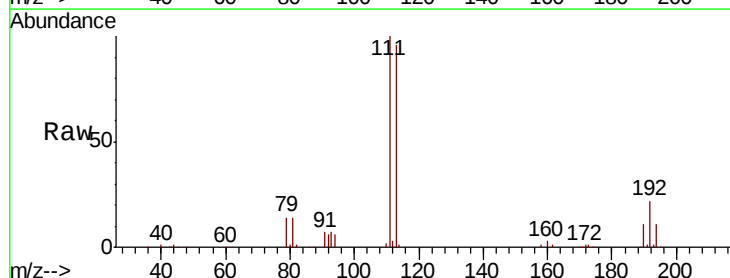


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VN
Ion 87.90 (87.60 to 88.60): VN

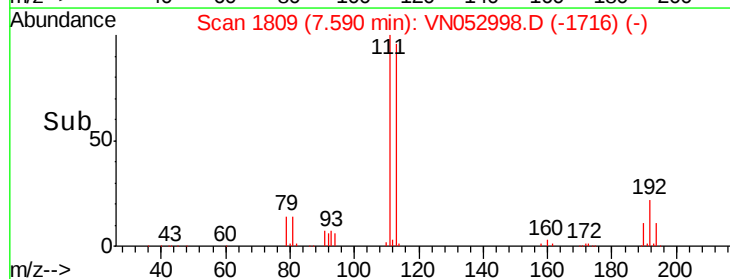
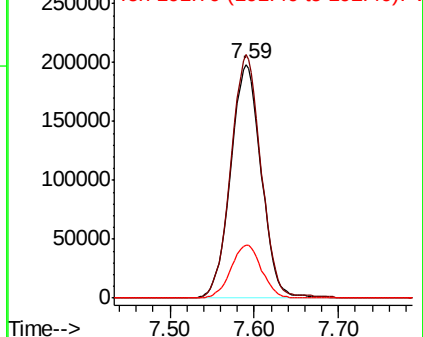


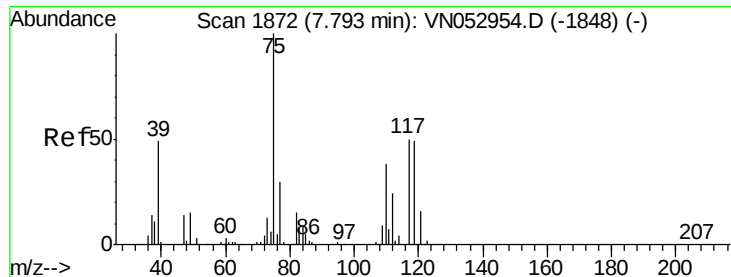
#35
Dibromofluoromethane
Concen: 50.000 ug/l
RT: 7.59 min Scan# 1809
Delta R.T. -0.00 min
Lab File: VN052998.D
Acq: 19 Dec 2018 9:29

Tgt Ion:113 Resp: 501271
Ion Ratio Lower Upper
113 100
111 103.4 83.0 124.4
192 22.8 17.5 26.3



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

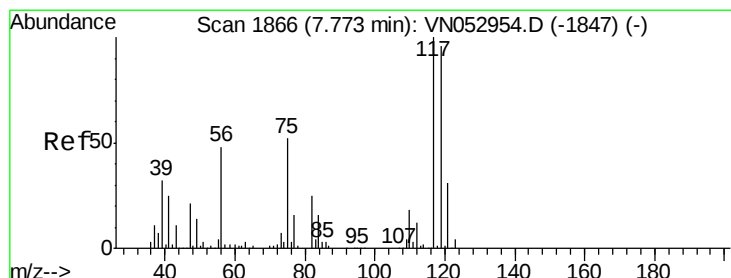
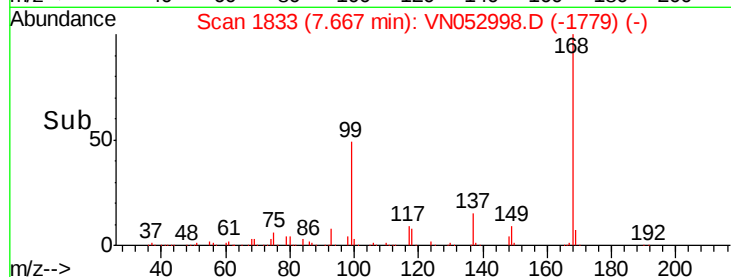
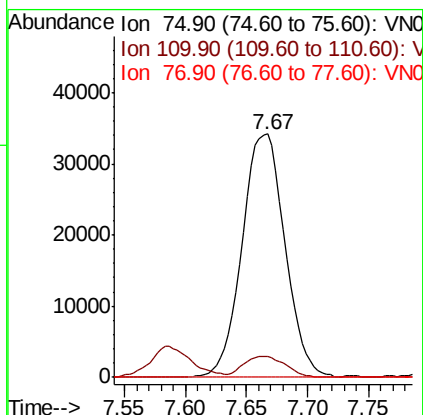
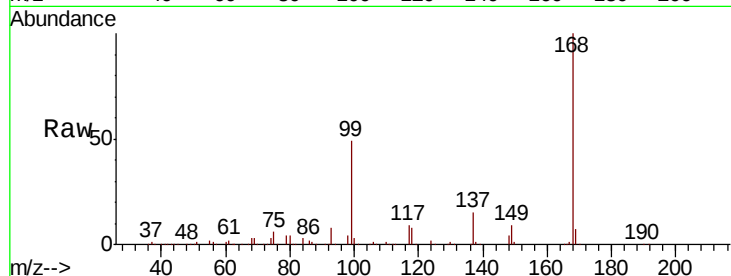




#36
 1,1-Dichloropropene
 Concen: 4.433 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.13 min
 Lab File: VN052998.D
 Acq: 19 Dec 2018 9:29

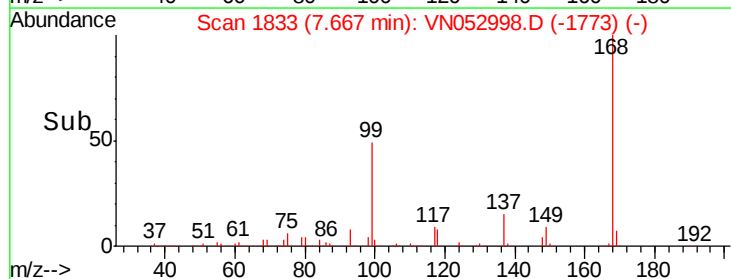
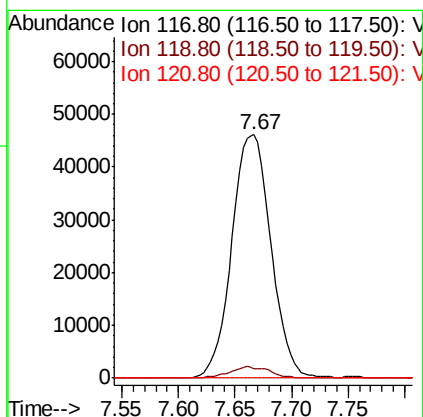
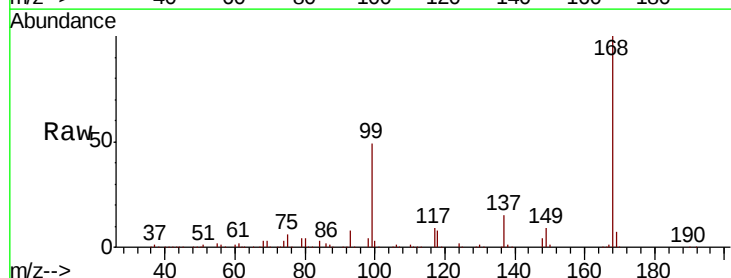
Instrument :
 MSVOA_N
 ClientSampled :

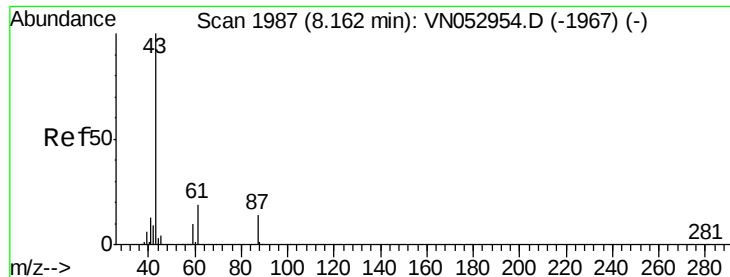
Tot Ion	75	Resp	83173
Ion Ratio	Lower	Upper	
75	100		
110	8.5	18.2	54.6#
77	0.0	24.9	37.3#



#38
 Carbon Tetrachloride
 Concen: 6.463 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.11 min
 Lab File: VN052998.D
 Acq: 19 Dec 2018 9:29

Tgt Ion	117	Resp	111166
Ion Ratio	Lower	Upper	
117	100		
119	4.0	77.1	115.7#
121	0.0	24.9	37.3#





#43

Isopropyl Acetate

Concen: 7.860 ug/l

RT: 8.32 min Scan# 2037

Delta R.T. 0.16 min

Lab File: VN052998.D

Acq: 19 Dec 2018 9:29

Instrument :

MSVOA_N

ClientSampleId :

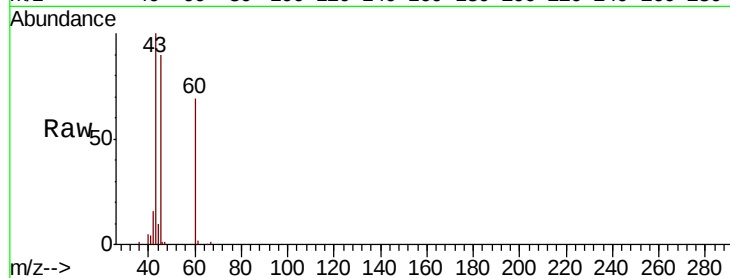
Tot Ion: 43 Resp: 177186

Ion Ratio Lower Upper

43 100

61 0.0 22.9 34.3#

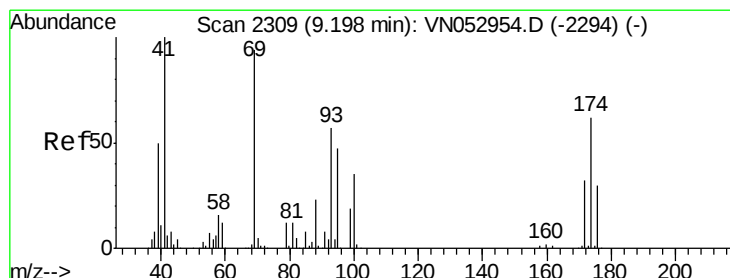
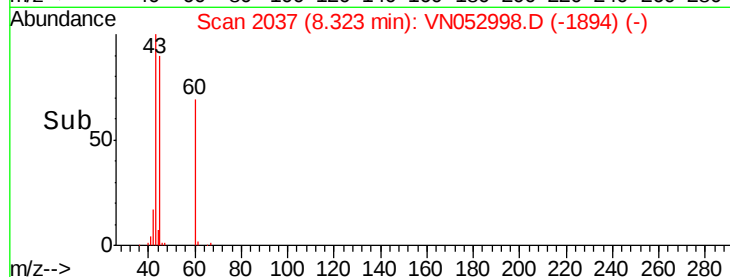
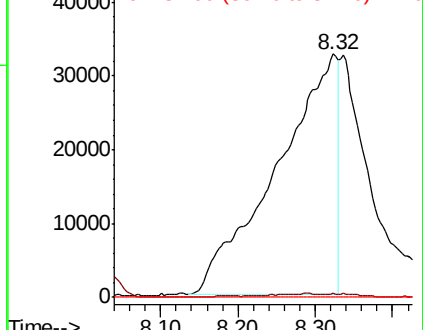
87 0.0 10.6 15.8#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0



#49

1,4-Dioxane

Concen: 0.474 ug/l

RT: 9.20 min Scan# 2310

Delta R.T. 0.00 min

Lab File: VN052998.D

Acq: 19 Dec 2018 9:29

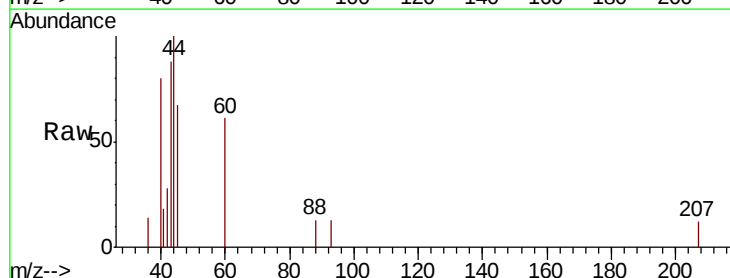
Tgt Ion: 88 Resp: 61

Ion Ratio Lower Upper

88 100

43 1629.5 26.6 40.0#

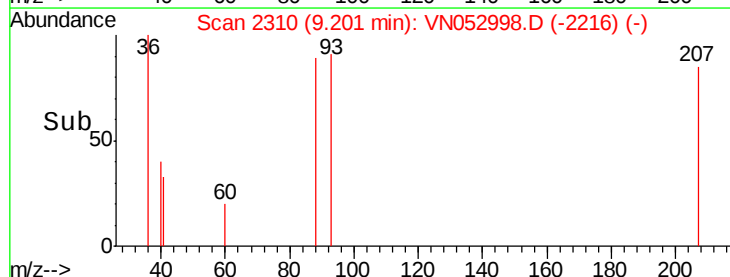
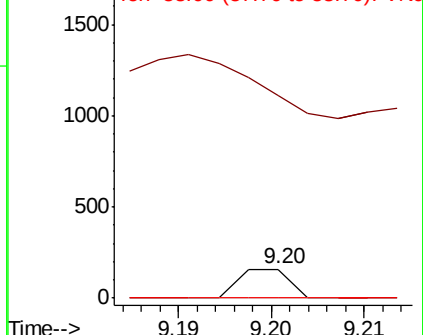
58 0.0 58.4 87.6#

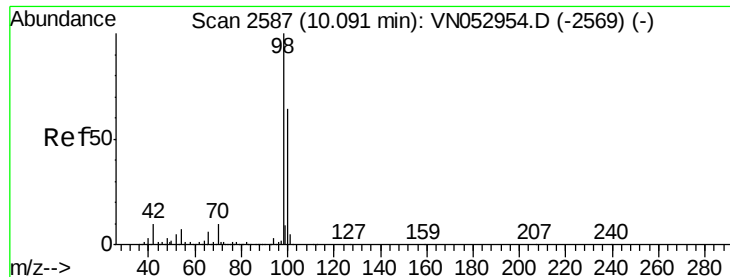


Abundance Ion 88.00 (87.70 to 88.70): VN0

Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#50

Toluene-d8

Concen: 0.474 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN052998.D

Acq: 19 Dec 2018 9:29

Instrument :

MSVOA_N

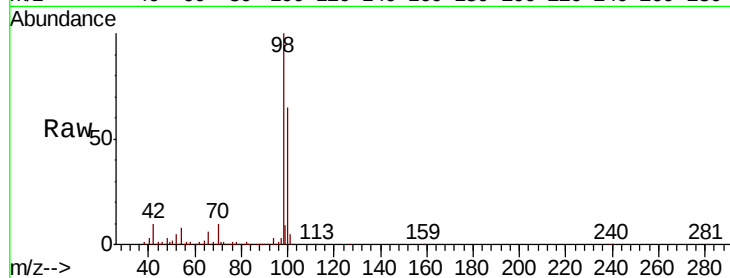
ClientSampled :

Tot Ion: 98 Resp: 2370495

Ion Ratio Lower Upper

98 100

100 64.5 51.6 77.4



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN

1500000

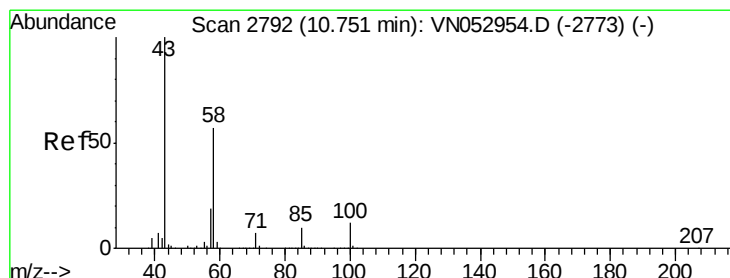
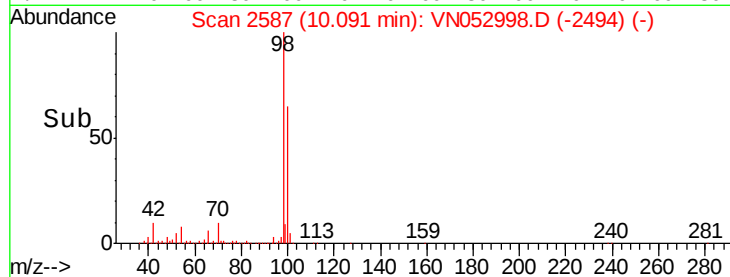
10.09

1000000

500000

0

Time-->



#59

2-Hexanone

Concen: 0.313 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.00 min

Lab File: VN052998.D

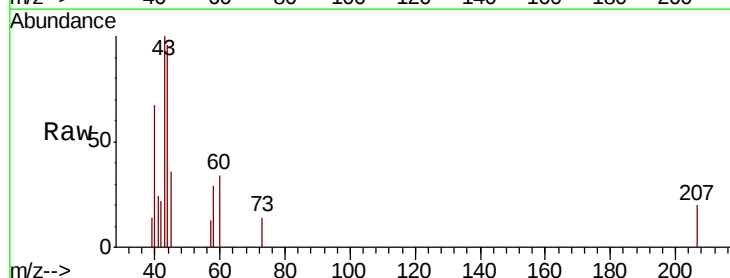
Acq: 19 Dec 2018 9:29

Tgt Ion: 43 Resp: 2145

Ion Ratio Lower Upper

43 100

58 33.9 28.1 84.3



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

1500

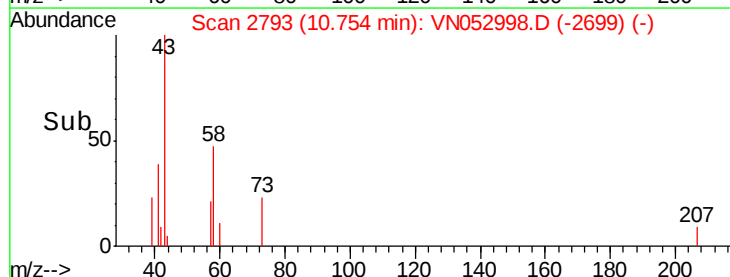
10.75

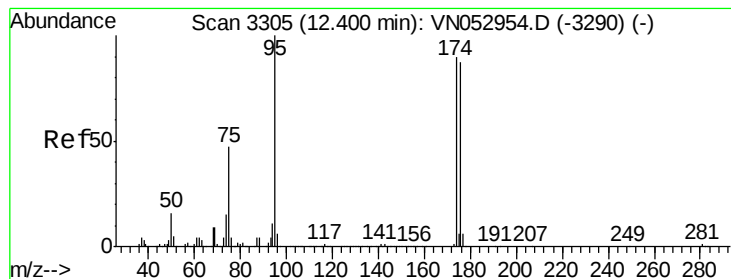
1000

500

0

Time-->





#62

4-Bromofluorobenzene

Concen: Below ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.00 min

Lab File: VN052998.D

Acq: 19 Dec 2018 9:29

Instrument :

MSVOA_N

ClientSampleId :

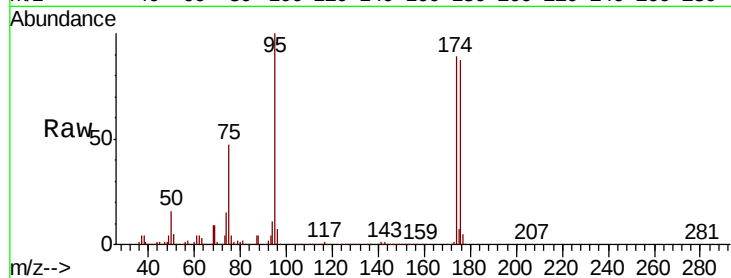
Tot Ion: 95 Resp: 764720

Ion Ratio Lower Upper

95 100

174 90.4 0.0 178.8

176 87.8 0.0 173.8

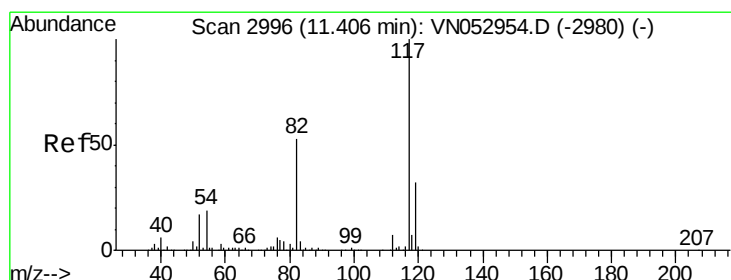
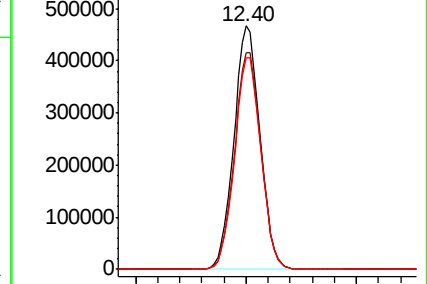
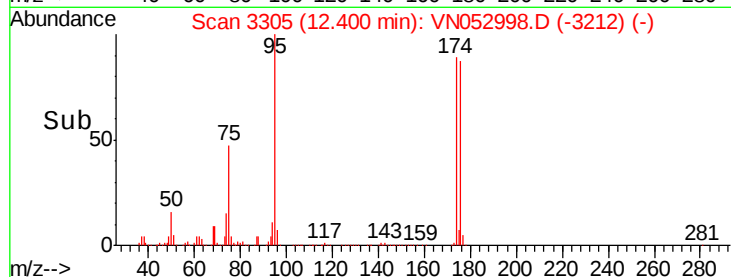


Abundance Ion 94.90 (94.60 to 95.60): VN052998.D (-2903) (-)

Ion 173.80 (173.50 to 174.50): VN052998.D (-2903) (-)

Ion 175.80 (175.50 to 176.50): VN052998.D (-2903) (-)

12.40



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. -0.00 min

Lab File: VN052998.D

Acq: 19 Dec 2018 9:29

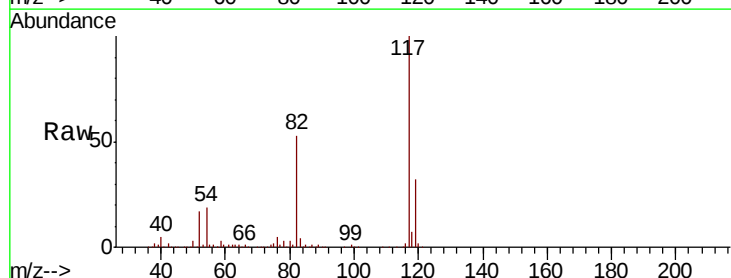
Tgt Ion: 117 Resp: 1721884

Ion Ratio Lower Upper

117 100

82 52.5 42.8 64.2

119 32.1 25.5 38.3

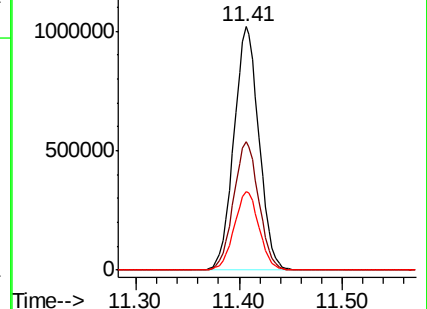
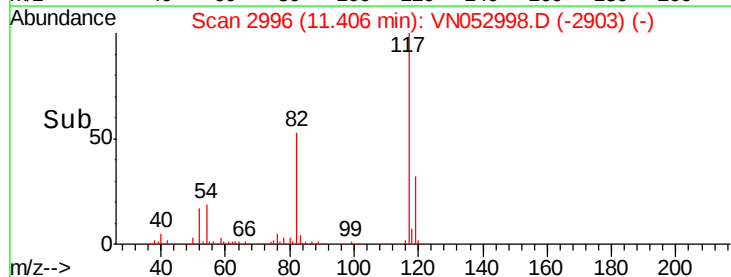


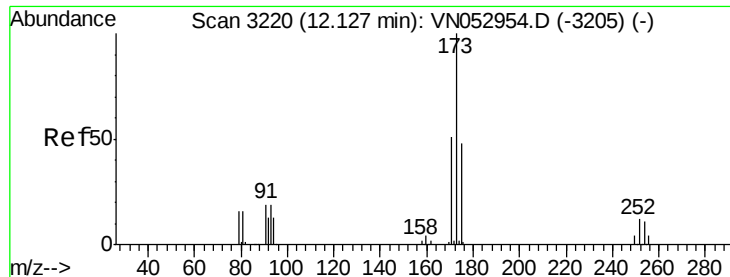
Abundance Ion 116.90 (116.60 to 117.60): VN052998.D (-2903) (-)

Ion 82.00 (81.70 to 82.70): VN052998.D (-2903) (-)

Ion 118.90 (118.60 to 119.60): VN052998.D (-2903) (-)

11.41





#71

Bromoform

Concen: 0.474 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.28 min

Lab File: VN052998.D

Acq: 19 Dec 2018 9:29

Instrument :

MSVOA_N

ClientSampled :

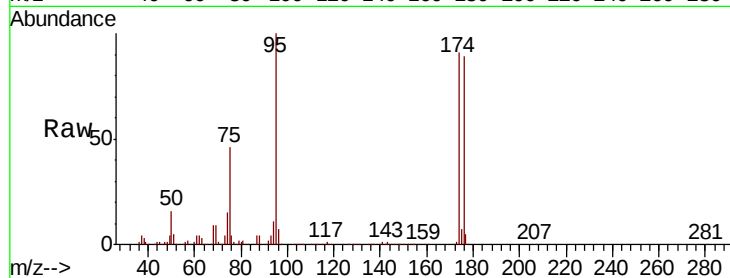
Tot Ion:173 Resp: 4547

Ion Ratio Lower Upper

173 100

175 967.1 24.3 72.9#

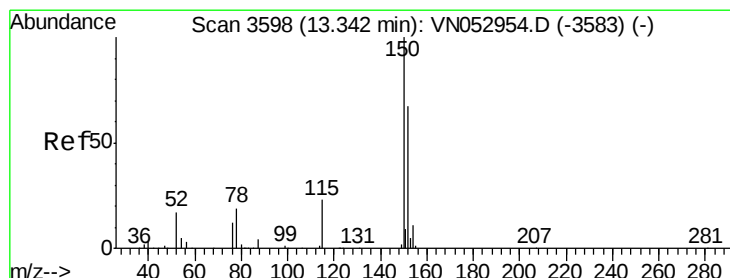
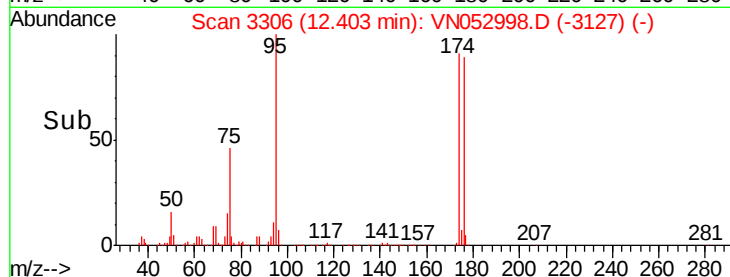
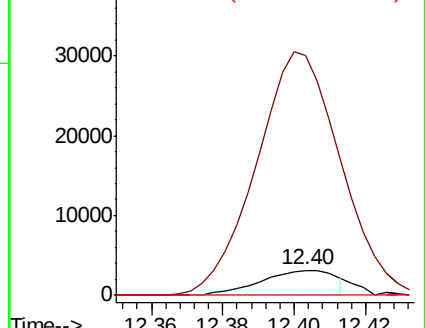
254 0.0 0.1 0.1#



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: VN052998.D

Acq: 19 Dec 2018 9:29

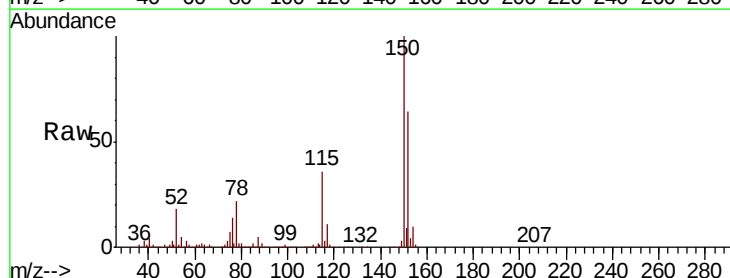
Tgt Ion:152 Resp: 679701

Ion Ratio Lower Upper

152 100

115 55.9 28.3 85.0

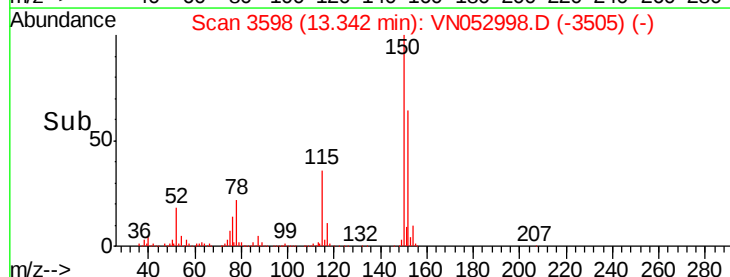
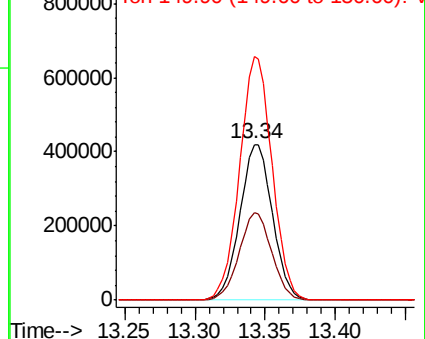
150 155.6 0.0 347.8

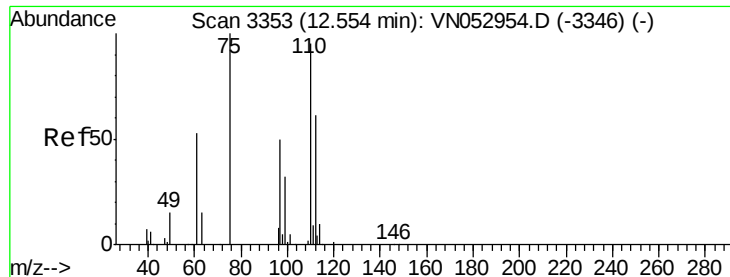


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 30.905 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN052998.D

Acq: 19 Dec 2018 9:29

Instrument :

MSVOA_N

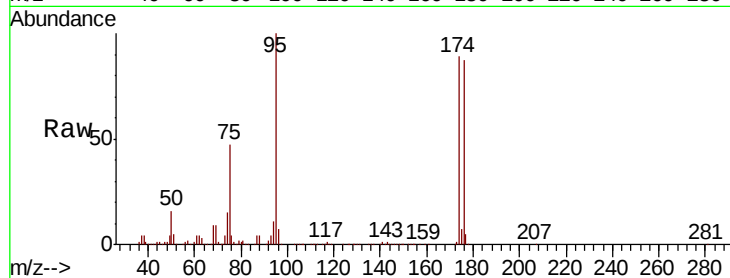
ClientSampleId :

Tot Ion: 75 Resp: 353613

Ion Ratio Lower Upper

75 100

77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

250000

200000

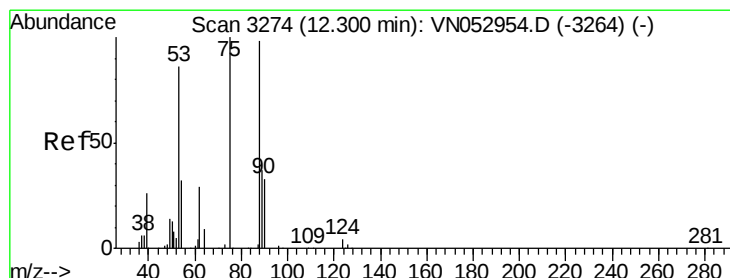
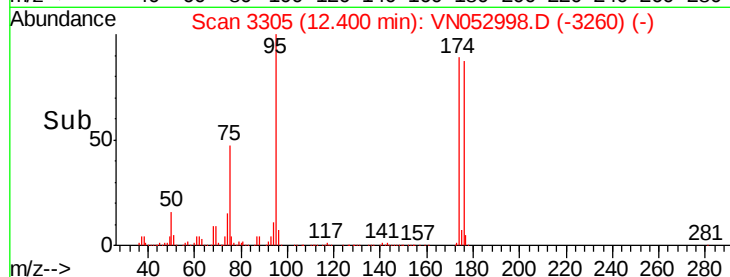
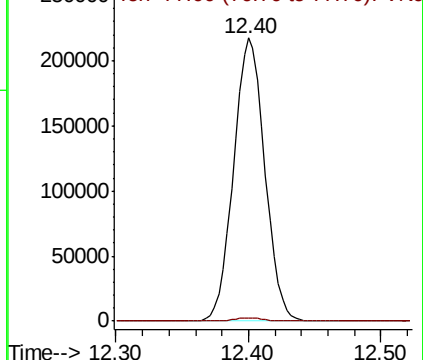
150000

100000

50000

0

Time--> 12.30 12.40 12.50



#81

trans-1,4-Dichloro-2-butene

Concen: 99.609 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN052998.D

Acq: 19 Dec 2018 9:29

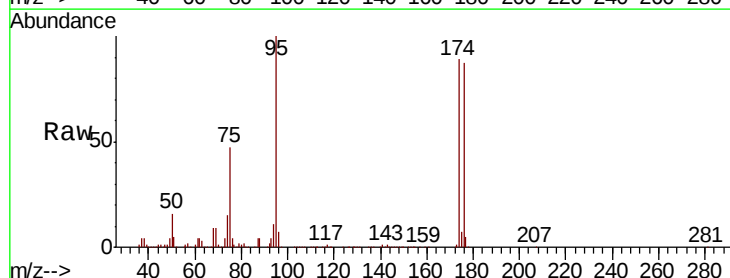
Tgt Ion: 75 Resp: 353613

Ion Ratio Lower Upper

75 100

53 0.0 74.7 112.1#

89 0.0 36.1 54.1#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0

300000

250000

200000

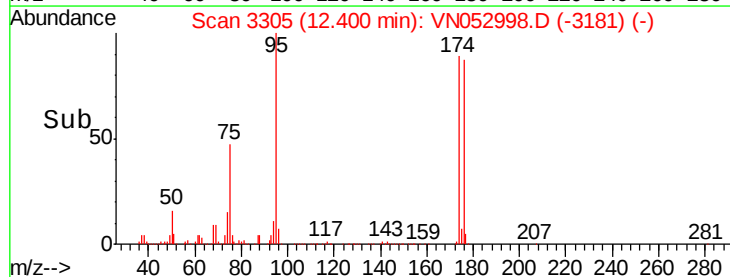
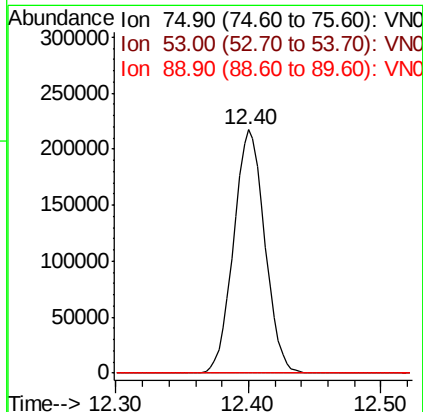
150000

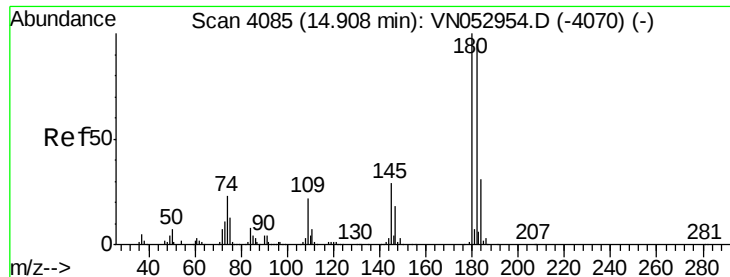
100000

50000

0

Time--> 12.30 12.40 12.50

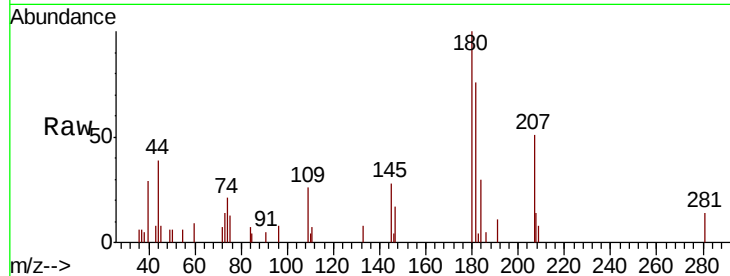




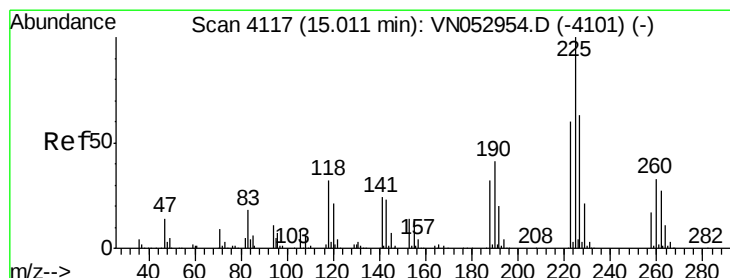
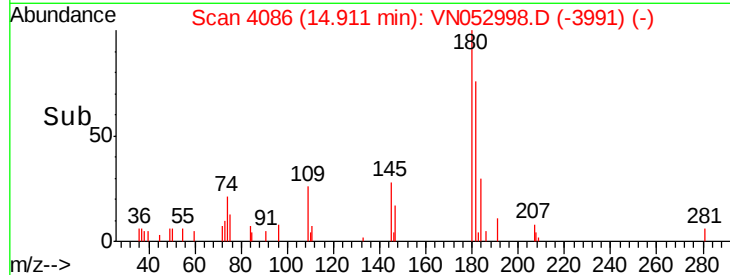
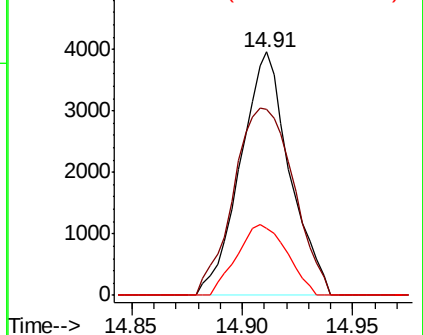
#93
 1,2,4-Trichlorobenzene
 Concen: 1.093 ug/l
 RT: 14.91 min Scan# 4086
 Delta R.T. 0.00 min
 Lab File: VN052998.D
 Acq: 19 Dec 2018 9:29

Instrument :
 MSVOA_N
 ClientSampled :

Tot Ion:180 Resp: 6138
 Ion Ratio Lower Upper
 180 100
 182 93.9 47.8 143.3
 145 29.7 14.2 42.6

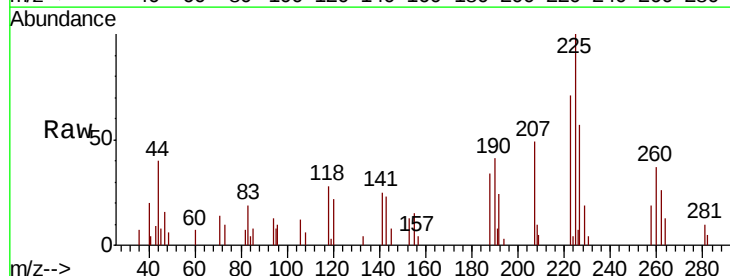


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

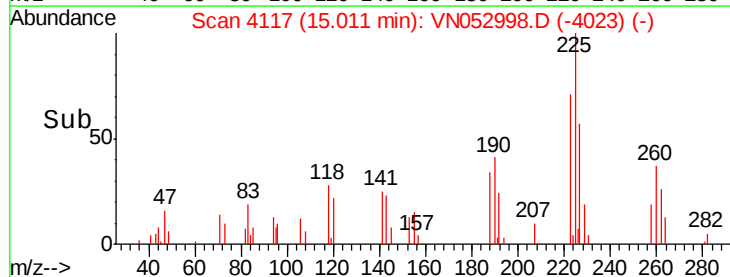
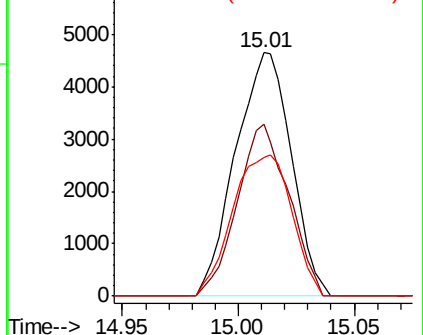


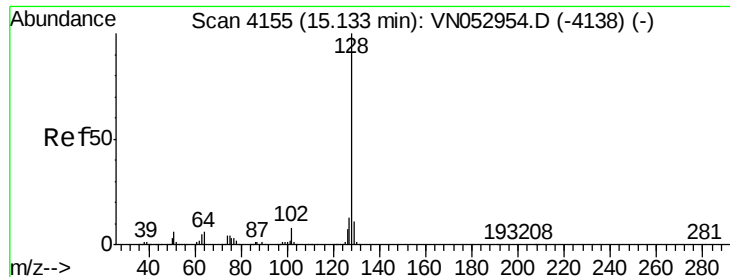
#94
 Hexachlorobutadiene
 Concen: Below Cal
 RT: 15.01 min Scan# 4117
 Delta R.T. 0.00 min
 Lab File: VN052998.D
 Acq: 19 Dec 2018 9:29

Tgt Ion:225 Resp: 7754
 Ion Ratio Lower Upper
 225 100
 223 65.3 31.5 94.5
 227 61.5 31.9 95.7



Abundance Ion 224.70 (224.40 to 225.40): V
 Ion 222.70 (222.40 to 223.40): V
 Ion 226.70 (226.40 to 227.40): V





#95

Naphthalene

Concen: 1.804 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. -0.00 min

Lab File: VN052998.D

Acq: 19 Dec 2018 9:29

Instrument :

MSVOA_N

ClientSampled :

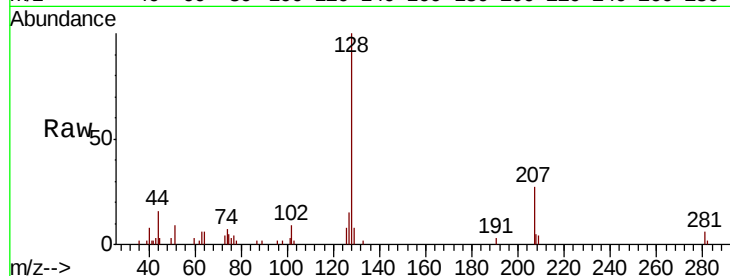
Tot Ion:128 Resp: 17988

Ion Ratio Lower Upper

128 100

127 13.3 10.2 15.4

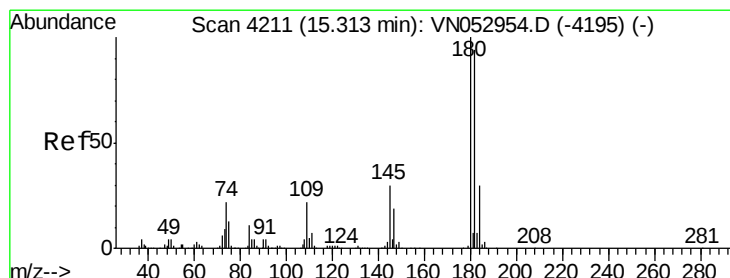
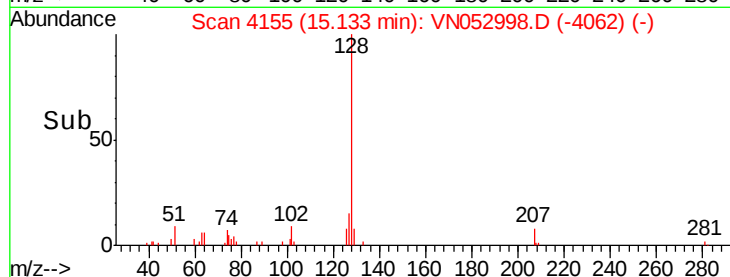
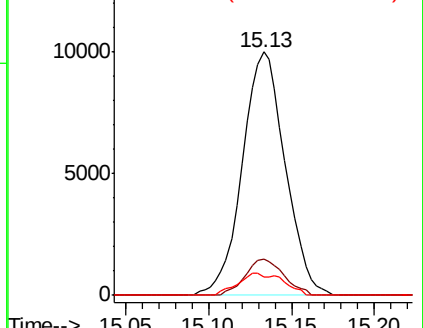
129 9.5 8.6 13.0



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: 1.185 ug/l

RT: 15.32 min Scan# 4212

Delta R.T. 0.00 min

Lab File: VN052998.D

Acq: 19 Dec 2018 9:29

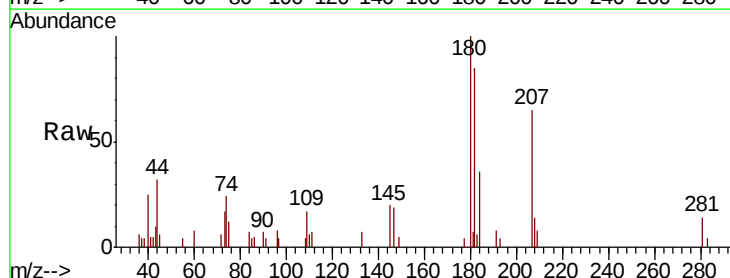
Tgt Ion:180 Resp: 7514

Ion Ratio Lower Upper

180 100

182 93.5 47.9 143.7

145 25.3 15.0 45.0



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

