

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN061019\
 Data File : VN056198.D
 Acq On : 11 Jun 2019 4:20
 Operator : JC/SP
 Sample : K3255-11
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 47 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jun 11 05:10:58 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N060419W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 04 11:02:09 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	324774	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	486886	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	484778	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	162507	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	170125	52.76	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.52%	
35) Dibromofluoromethane	7.59	113	156778	52.48	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.96%	
50) Toluene-d8	10.09	98	630076	54.81	ug/l	0.00
Spiked Amount	50.000		Recovery	=	109.62%	
62) 4-Bromofluorobenzene	12.40	95	206158	52.74	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.48%	

Target Compounds

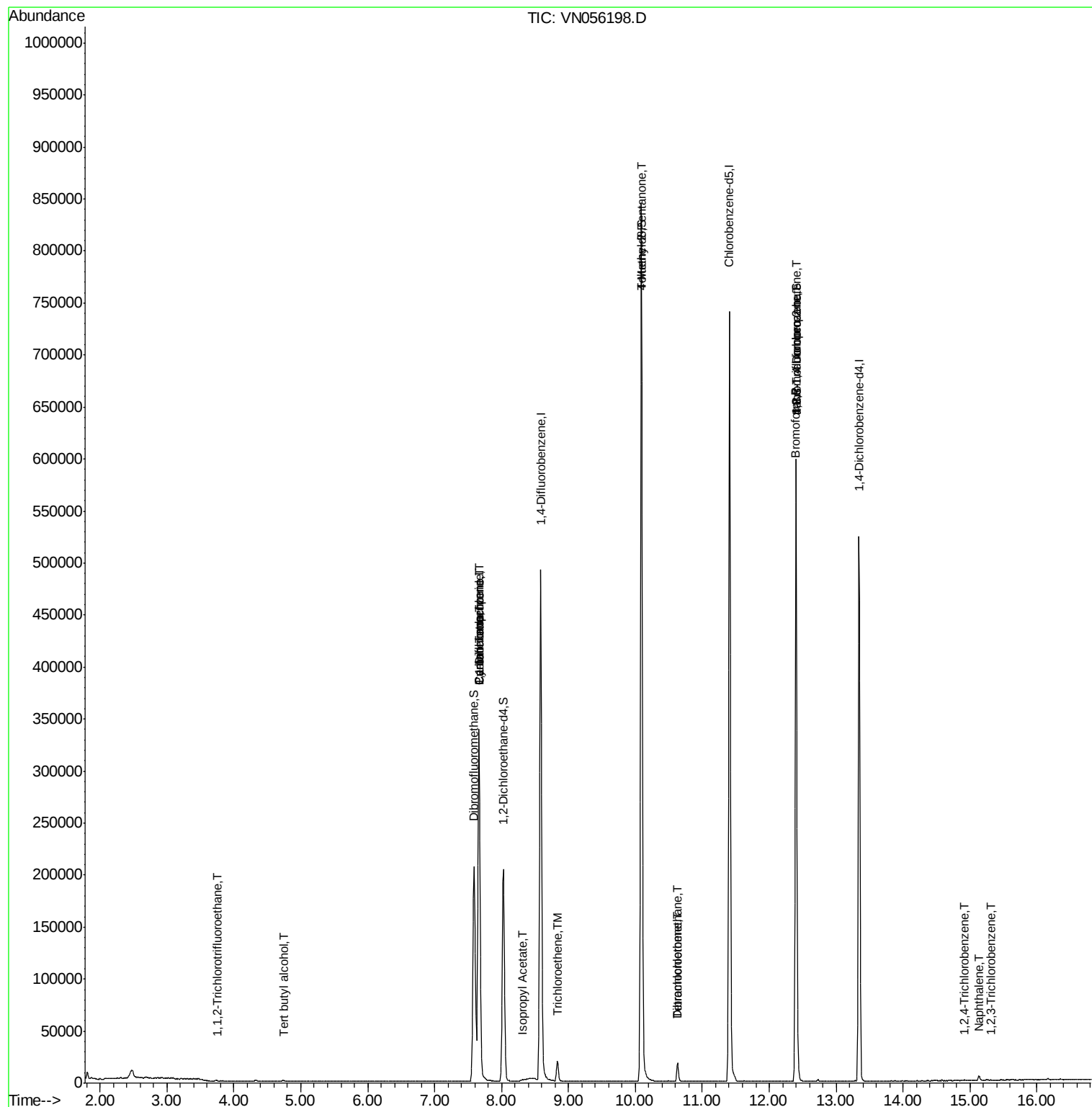
					Qvalue	
9) 1,1,2-Trichlorotrifluoroet	3.75	101	706	0.258	ug/l #	77
11) Tert butyl alcohol	4.75	59	608	1.083	ug/l #	74
18) Methyl Acetate	4.32	43	806	Below Cal	#	77
31) Cyclohexane	7.66	56	4678	0.914	ug/l #	1
36) 1,1-Dichloropropene	7.66	75	18180	4.342	ug/l #	49
38) Carbon Tetrachloride	7.66	117	26298	6.813	ug/l #	15
43) Isopropyl Acetate	8.32	43	1657	0.275	ug/l #	53
44) Trichloroethene	8.83	130	8422	2.305	ug/l	99
51) 4-Methyl-2-Pentanone	10.09	43	2367	0.627	ug/l #	1
60) Dibromochloromethane	10.63	129	3918	3.530	ug/l #	11
64) Tetrachloroethene	10.63	164	4565	1.088	ug/l	97
71) Bromoform	12.39	173	201	2.810	ug/l #	29
73) Isopropylbenzene	12.40	105	30	Below Cal	#	48
76) 1,2,3-Trichloropropane	12.40	75	94428	31.579	ug/l #	100
79) 2-Chlorotoluene	12.59	91	240	Below Cal	#	39
81) trans-1,4-Dichloro-2-buten	12.40	75	94428	105.165	ug/l #	15
93) 1,2,4-Trichlorobenzene	14.91	180	289	4.358	ug/l #	72
94) Hexachlorobutadiene	15.01	225	62	Below Cal	#	19
95) Naphthalene	15.14	128	4739	4.414	ug/l #	97
96) 1,2,3-Trichlorobenzene	15.31	180	175	3.085	ug/l #	55

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. 0.00 min

Lab File: VN056198.D

Acq: 11 Jun 2019 4:20

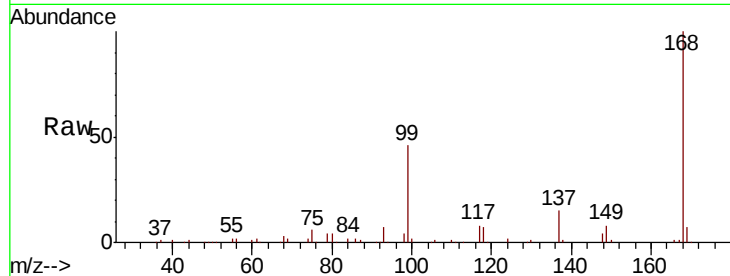
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 324774

Ion Ratio Lower Upper

168 100

99 46.0 37.2 55.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.66

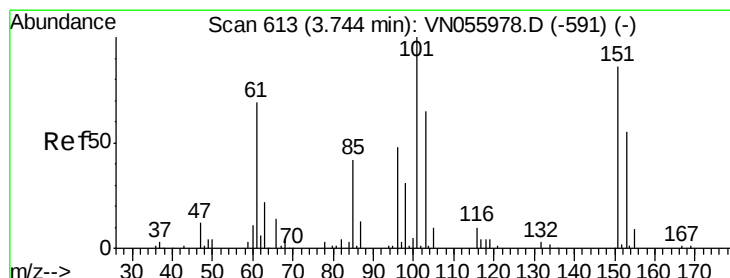
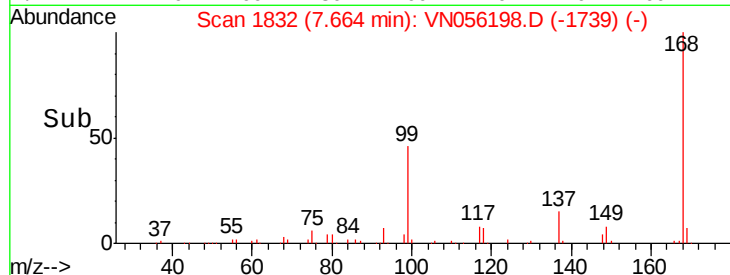
150000

100000

50000

0

Time-->



#9

1,1,2-Trichlorotrifluoroethane

Concen: 0.258 ug/l

RT: 3.75 min Scan# 614

Delta R.T. 0.00 min

Lab File: VN056198.D

Acq: 11 Jun 2019 4:20

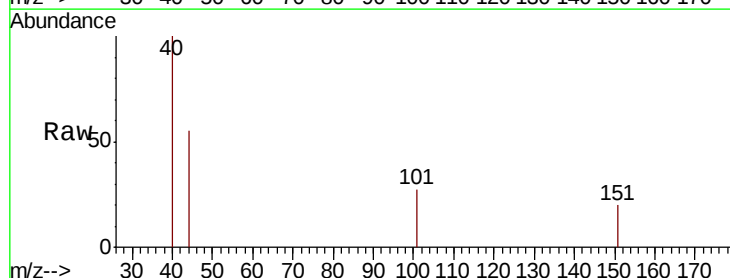
Tgt Ion:101 Resp: 706

Ion Ratio Lower Upper

101 100

85 4.2 33.4 50.2#

151 81.7 69.4 104.2



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VN

Ion 150.80 (150.50 to 151.50): V

500

400

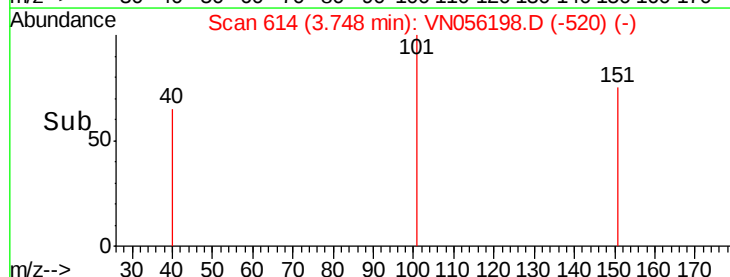
300

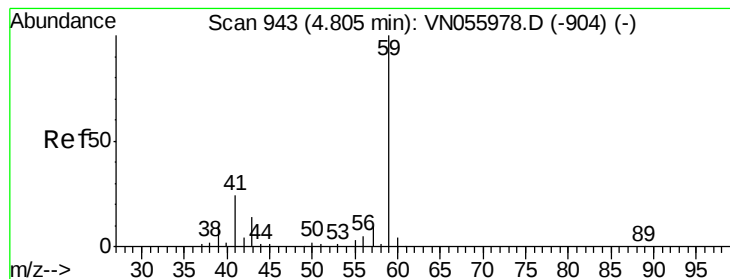
200

100

0

Time-->



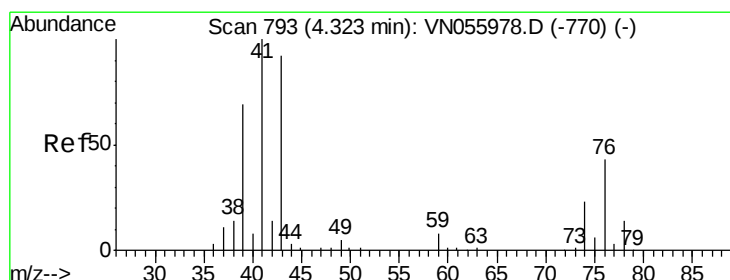
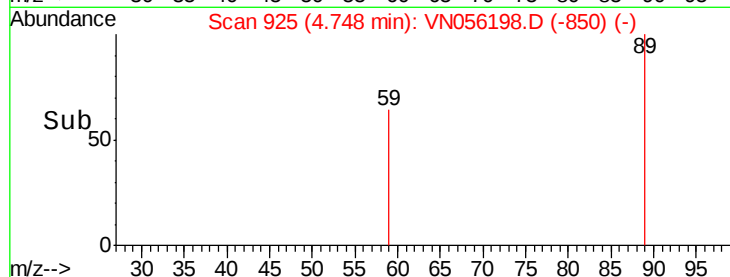
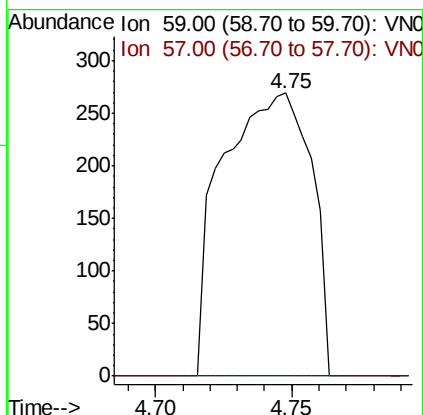
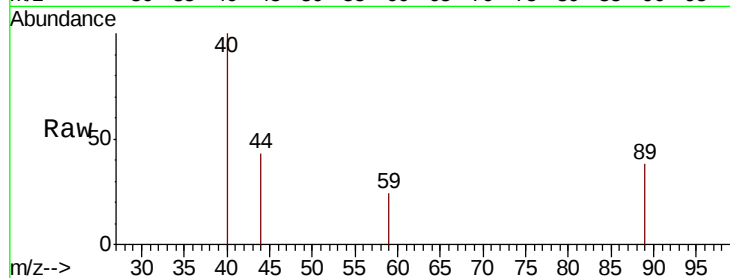


#11

Tert butyl alcohol
 Concen: 1.083 ug/l
 RT: 4.75 min Scan# 925
 Delta R.T. -0.06 min
 Lab File: VN056198.D
 Acq: 11 Jun 2019 4:20

Instrument :
 MSVOA_N
 ClientSampleId :

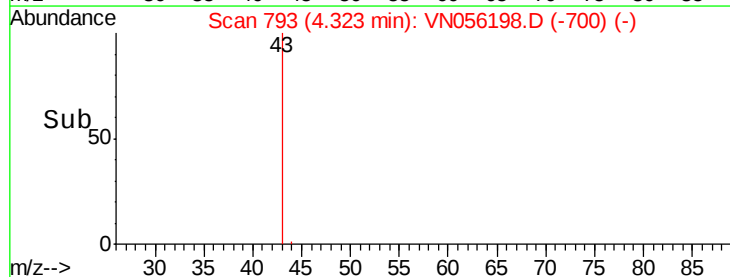
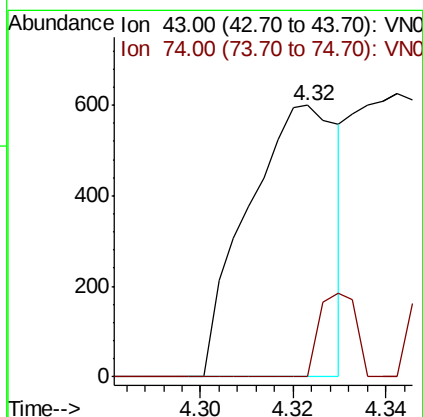
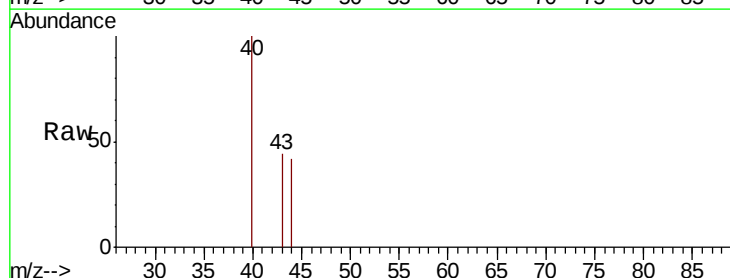
Tot Ion: 59 Resp: 608
 Ion Ratio Lower Upper
 59 100
 57 0.0 7.8 11.6#

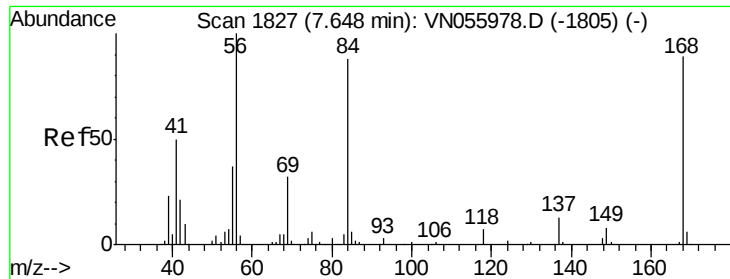


#18

Methyl Acetate
 Concen: Below Cal
 RT: 4.32 min Scan# 793
 Delta R.T. 0.00 min
 Lab File: VN056198.D
 Acq: 11 Jun 2019 4:20

Tgt Ion: 43 Resp: 806
 Ion Ratio Lower Upper
 43 100
 74 12.5 19.3 28.9#

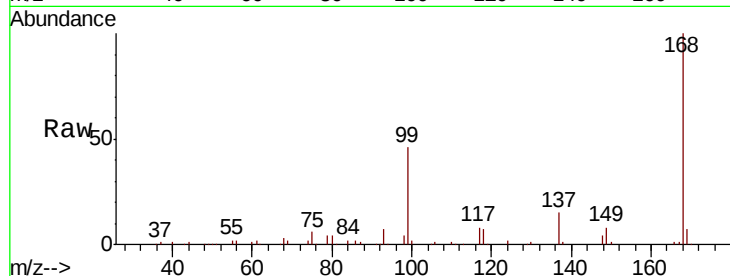




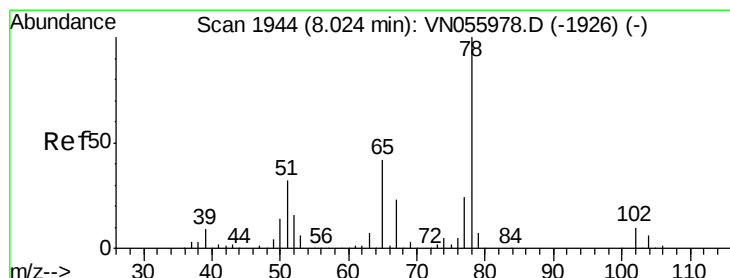
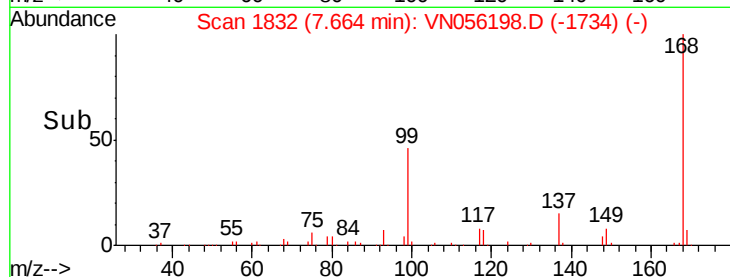
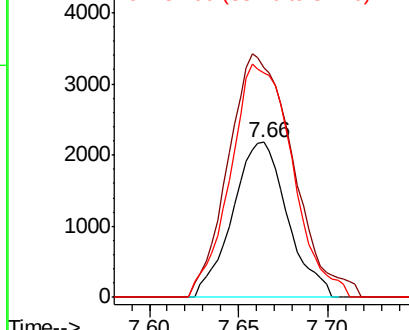
#31
Cyclohexane
Concen: 0.914 ug/l
RT: 7.66 min Scan# 1832
Delta R.T. 0.02 min
Lab File: VN056198.D
Acq: 11 Jun 2019 4:20

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 56 Resp: 4678
Ion Ratio Lower Upper
56 100
69 148.3 25.6 38.4#
84 144.4 67.4 101.0#

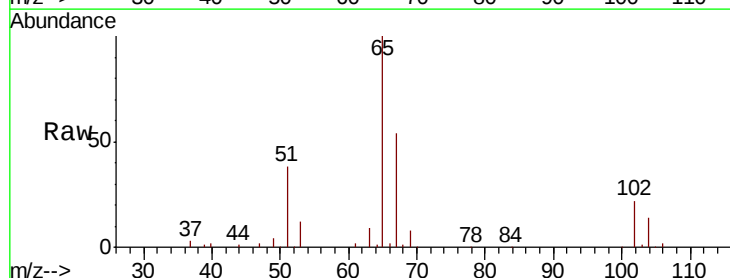


Abundance Ion 56.00 (55.70 to 56.70): VNC
Ion 69.00 (68.70 to 69.70): VNC
Ion 84.00 (83.70 to 84.70): VNC

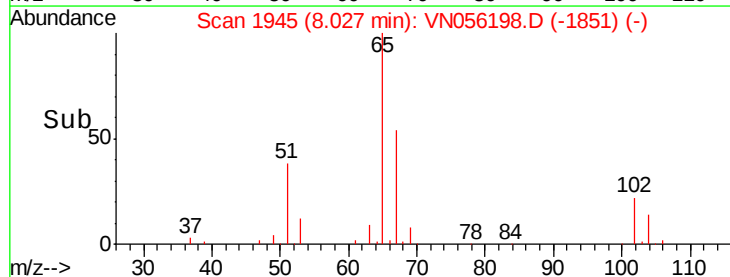
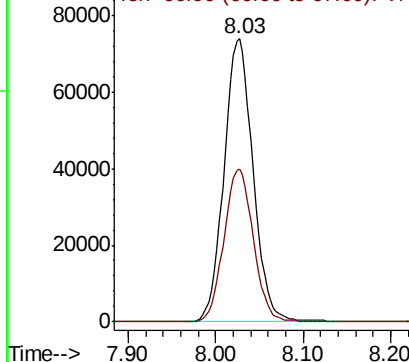


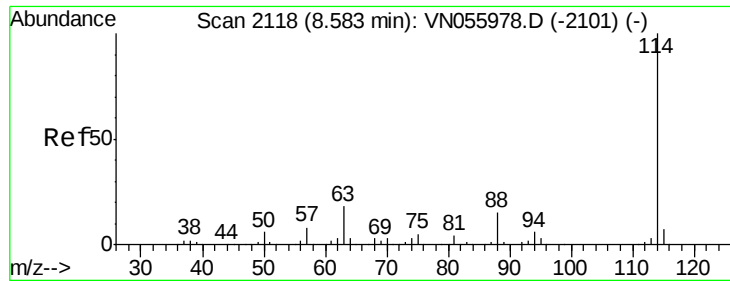
#33
1,2-Dichloroethane-d4
Concen: 52.756 ug/l
RT: 8.03 min Scan# 1945
Delta R.T. 0.00 min
Lab File: VN056198.D
Acq: 11 Jun 2019 4:20

Tgt Ion: 65 Resp: 170125
Ion Ratio Lower Upper
65 100
67 54.6 0.0 109.2



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

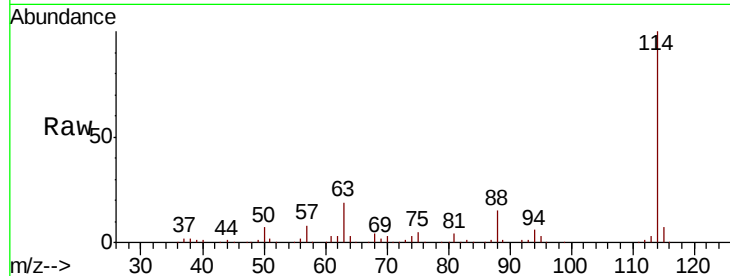




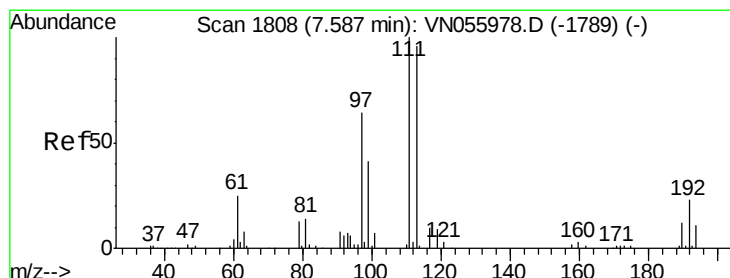
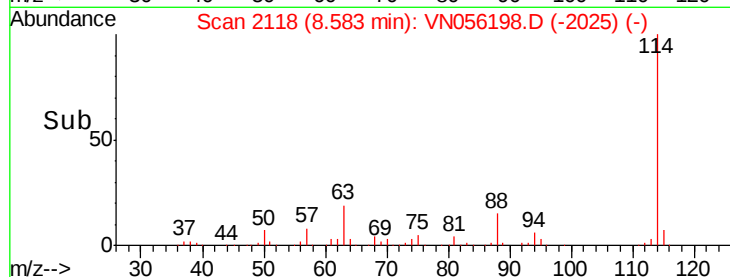
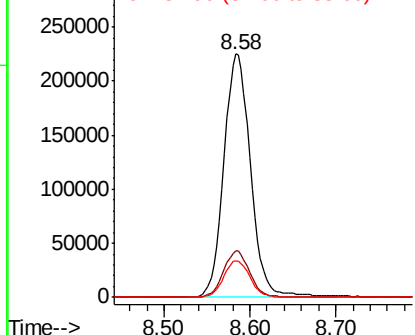
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.58 min Scan# 2118
Delta R.T. 0.00 min
Lab File: VN056198.D
Acq: 11 Jun 2019 4:20

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:114 Resp: 486886
Ion Ratio Lower Upper
114 100
63 19.1 0.0 39.2
88 15.1 0.0 31.0

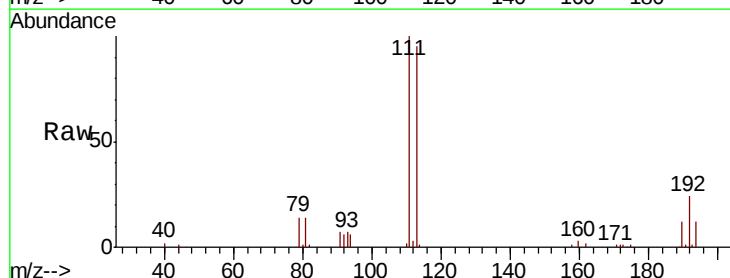


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VNO
Ion 87.90 (87.60 to 88.60): VNO

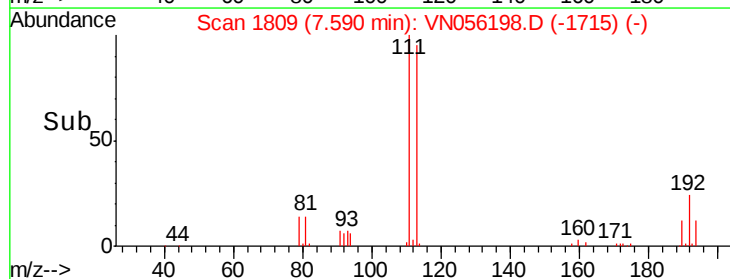
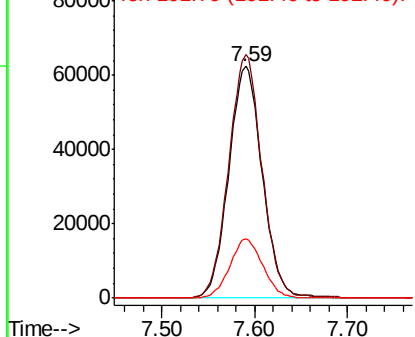


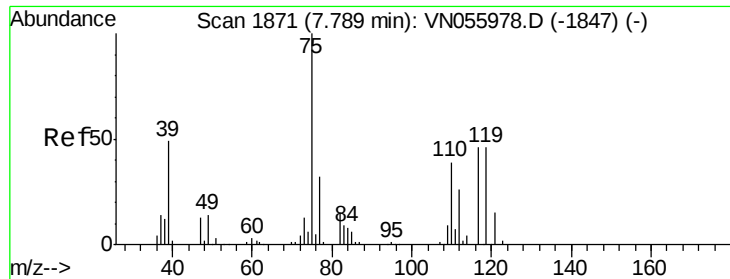
#35
Dibromofluoromethane
Concen: 52.483 ug/l
RT: 7.59 min Scan# 1809
Delta R.T. 0.00 min
Lab File: VN056198.D
Acq: 11 Jun 2019 4:20

Tgt Ion:113 Resp: 156778
Ion Ratio Lower Upper
113 100
111 104.2 81.9 122.9
192 25.2 19.5 29.3



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

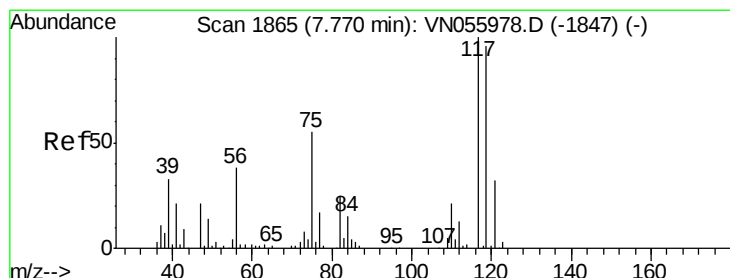
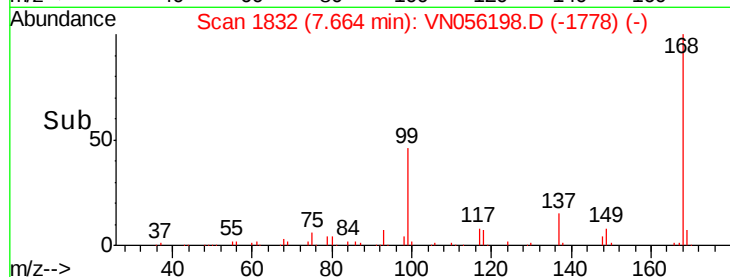
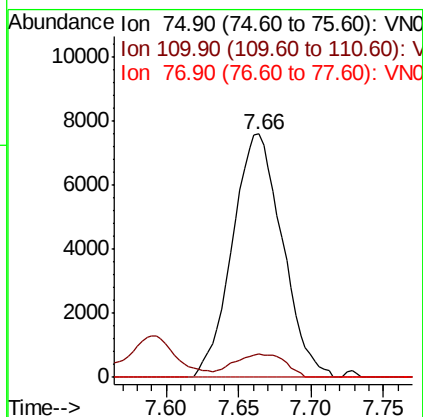
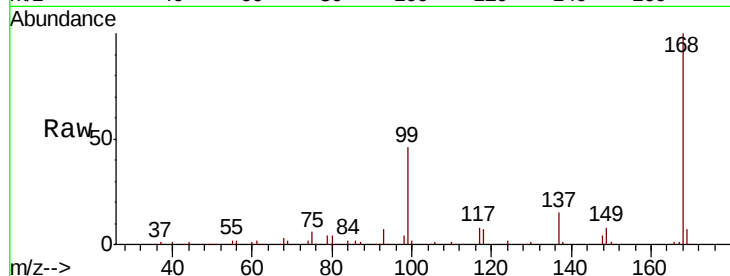




#36
 1,1-Dichloropropene
 Concen: 4.342 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.13 min
 Lab File: VN056198.D
 Acq: 11 Jun 2019 4:20

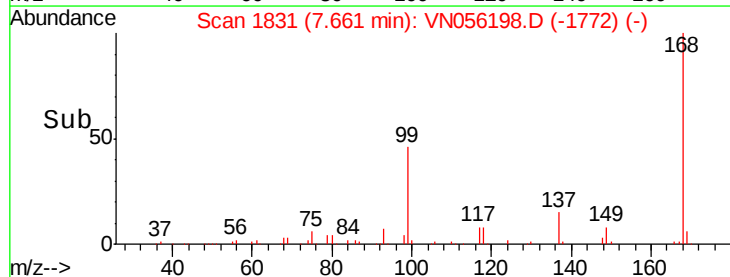
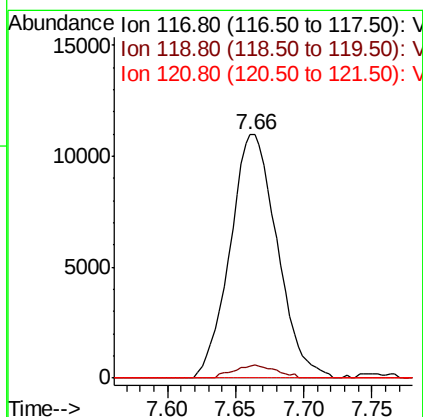
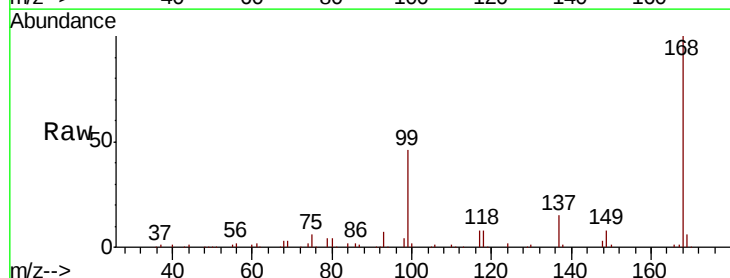
Instrument :
 MSVOA_N
 ClientSampleId :

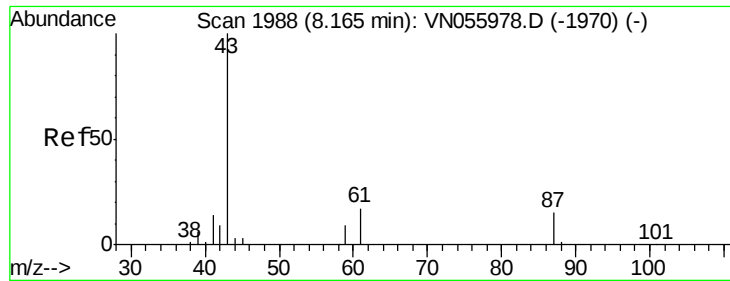
Tot Ion	Ratio	Lower	Upper
75	100		
110	9.9	19.0	57.0#
77	0.0	25.1	37.7#



#38
 Carbon Tetrachloride
 Concen: 6.813 ug/l
 RT: 7.66 min Scan# 1831
 Delta R.T. -0.11 min
 Lab File: VN056198.D
 Acq: 11 Jun 2019 4:20

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.0	79.0	118.6#
121	0.0	24.7	37.1#





#43

Isopropyl Acetate

Concen: 0.275 ug/l

RT: 8.32 min Scan# 2035

Delta R.T. 0.15 min

Lab File: VN056198.D

Acq: 11 Jun 2019 4:20

Instrument :

MSVOA_N

ClientSampleId :

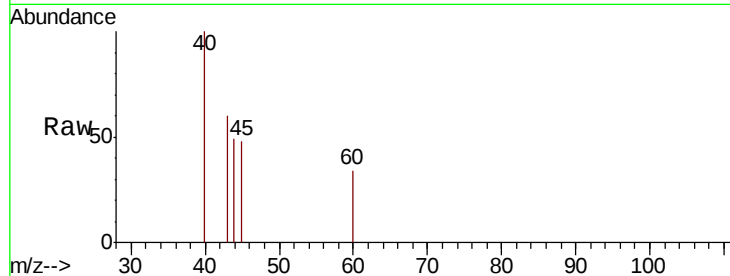
Tot Ion: 43 Resp: 1657

Ion Ratio Lower Upper

43 100

61 0.0 22.2 33.4#

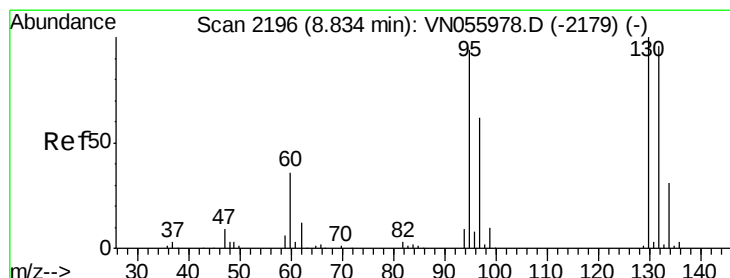
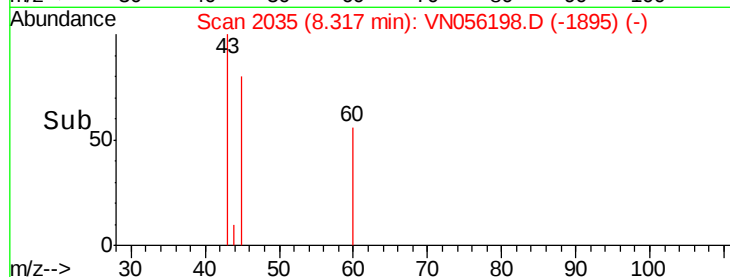
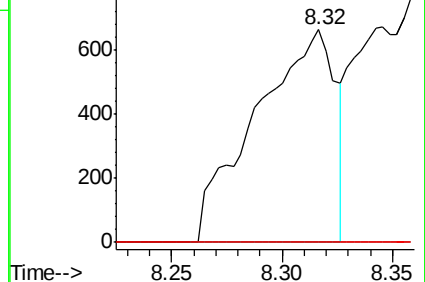
87 0.0 11.4 17.2#



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



#44

Trichloroethene

Concen: 2.305 ug/l

RT: 8.83 min Scan# 2196

Delta R.T. 0.00 min

Lab File: VN056198.D

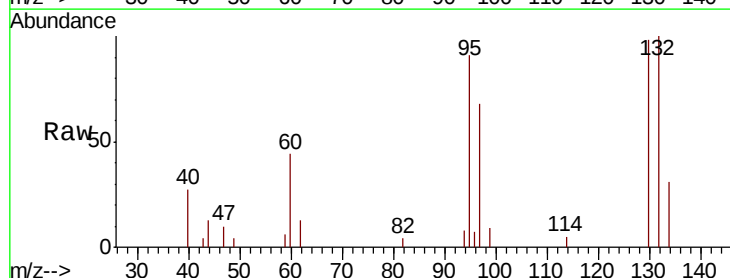
Acq: 11 Jun 2019 4:20

Tgt Ion: 130 Resp: 8422

Ion Ratio Lower Upper

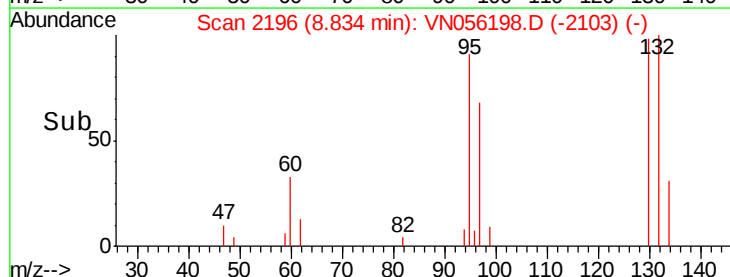
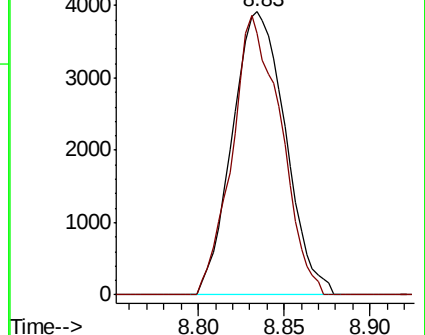
130 100

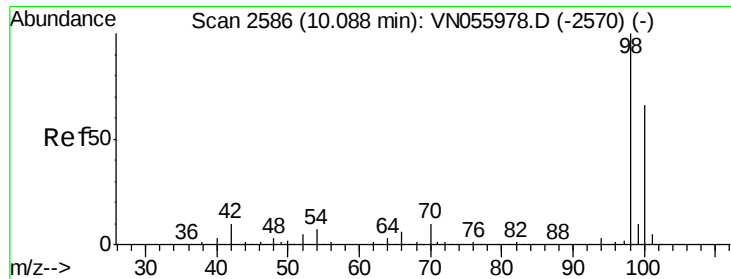
95 92.6 0.0 188.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VN0





#50

Toluene-d8

Concen: 54.814 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN056198.D

Acq: 11 Jun 2019 4:20

Instrument :

MSVOA_N

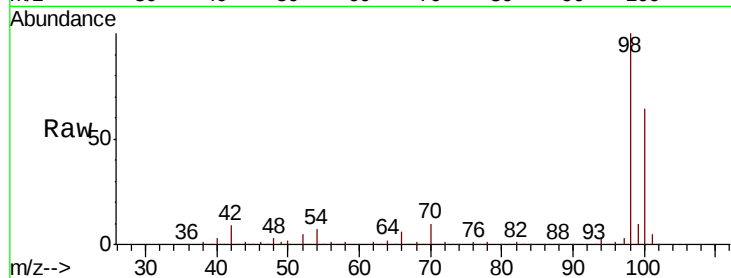
ClientSampleId :

Tot Ion: 98 Resp: 630076

Ion Ratio Lower Upper

98 100

100 64.1 51.9 77.9



Abundance Ion 98.00 (97.70 to 98.70): VN055978.D (-2570) (-)

Ion 100.00 (99.70 to 100.70): VN055978.D (-2570) (-)

10.09

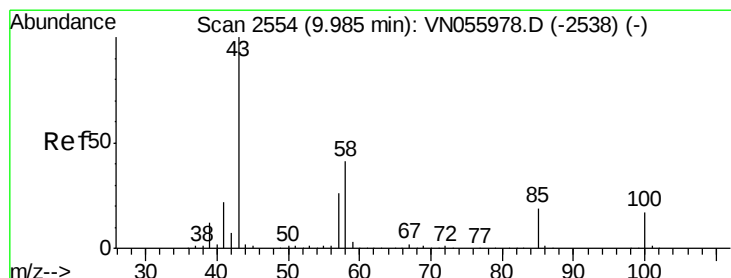
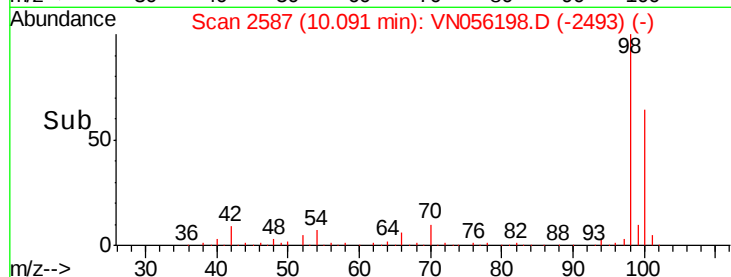
300000

200000

100000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 0.627 ug/l

RT: 10.09 min Scan# 2586

Delta R.T. 0.10 min

Lab File: VN056198.D

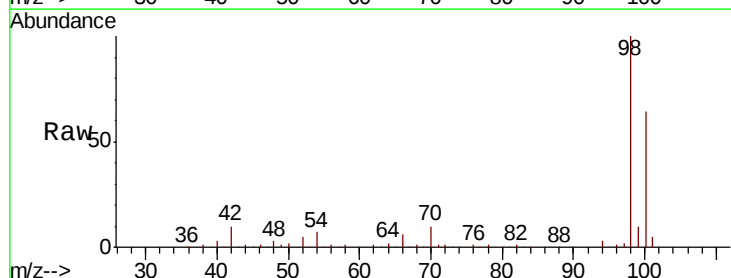
Acq: 11 Jun 2019 4:20

Tgt Ion: 43 Resp: 2367

Ion Ratio Lower Upper

43 100

58 191.7 32.1 48.1#



Abundance Ion 43.00 (42.70 to 43.70): VN055978.D (-2538) (-)

Ion 58.00 (57.70 to 58.70): VN055978.D (-2538) (-)

2500

2000

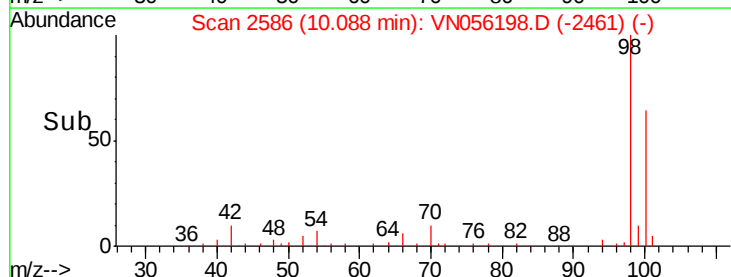
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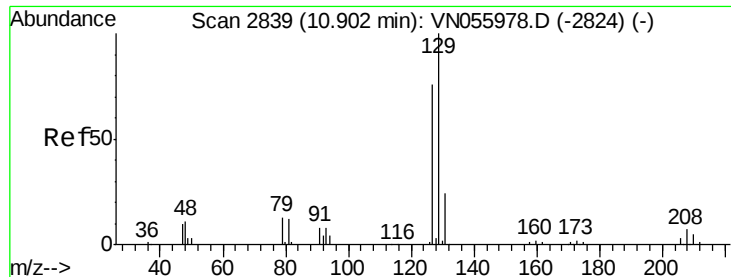
1000

500

0

Time-->





#60

Dibromochloromethane

Concen: 3.530 ug/l

RT: 10.63 min Scan# 2755

Delta R.T. -0.27 min

Lab File: VN056198.D

Acq: 11 Jun 2019 4:20

Instrument :

MSVOA_N

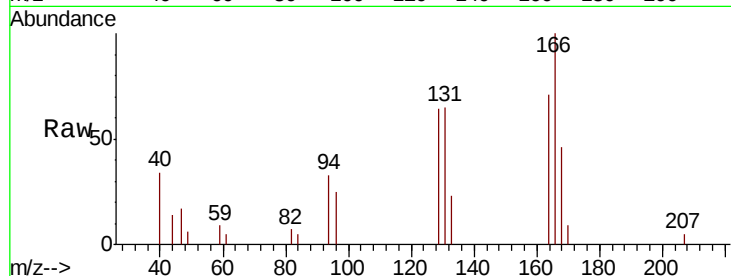
ClientSampled :

Tot Ion:129 Resp: 3918

Ion Ratio Lower Upper

129 100

127 0.0 38.1 114.3#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V

10.63

2500

2000

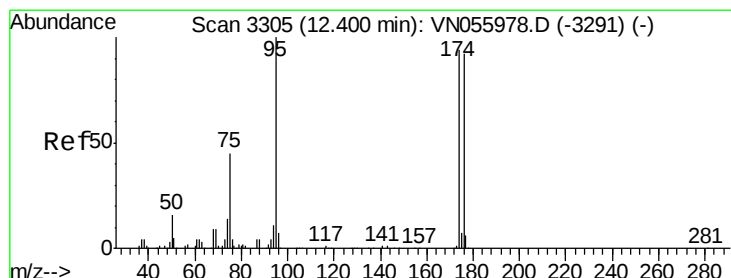
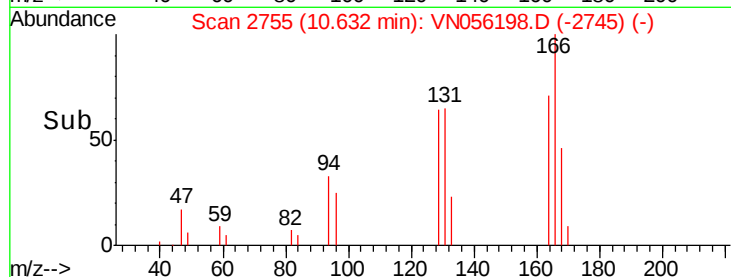
1500

1000

500

0

Time-->



#62

4-Bromofluorobenzene

Concen: 52.738 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN056198.D

Acq: 11 Jun 2019 4:20

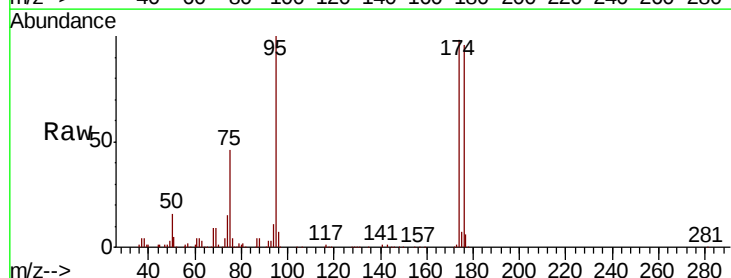
Tgt Ion: 95 Resp: 206158

Ion Ratio Lower Upper

95 100

174 98.0 0.0 191.0

176 96.3 0.0 185.2



Abundance Ion 94.90 (94.60 to 95.60): VN0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

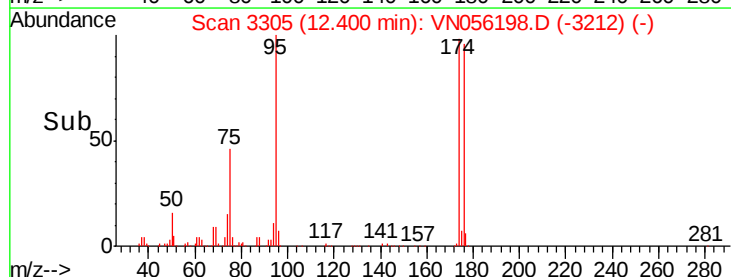
150000

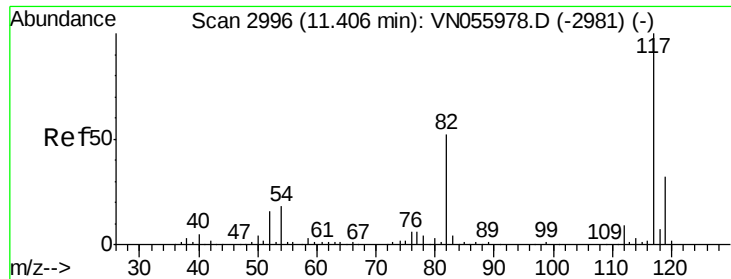
100000

50000

0

Time-->





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN056198.D

Acq: 11 Jun 2019 4:20

Instrument :

MSVOA_N

ClientSampleId :

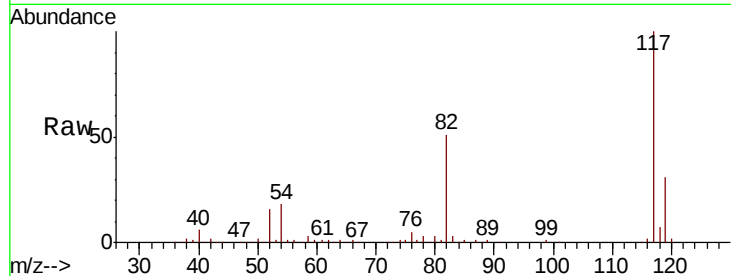
Tot Ion:117 Resp: 484778

Ion Ratio Lower Upper

117 100

82 50.8 41.8 62.8

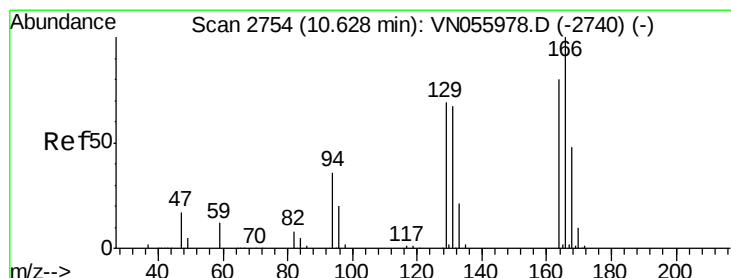
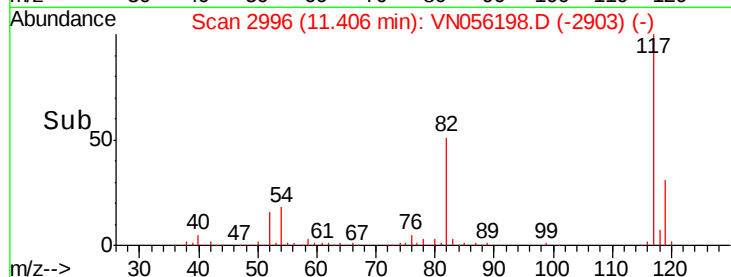
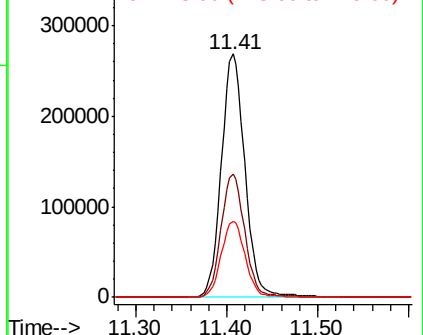
119 31.4 25.4 38.0



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VN

Ion 118.90 (118.60 to 119.60): V



#64

Tetrachloroethene

Concen: 1.088 ug/l

RT: 10.63 min Scan# 2754

Delta R.T. 0.00 min

Lab File: VN056198.D

Acq: 11 Jun 2019 4:20

Tgt Ion:164 Resp: 4565

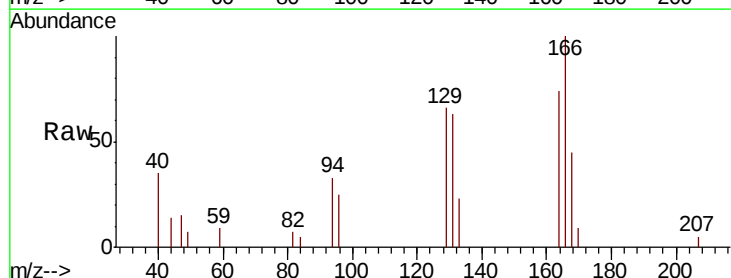
Ion Ratio Lower Upper

164 100

166 135.2 103.0 154.6

129 89.0 70.6 105.8

131 85.5 68.6 102.8

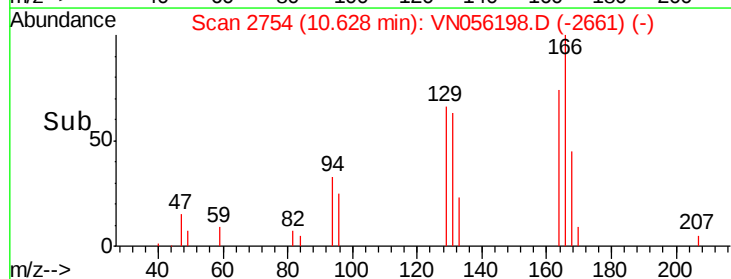
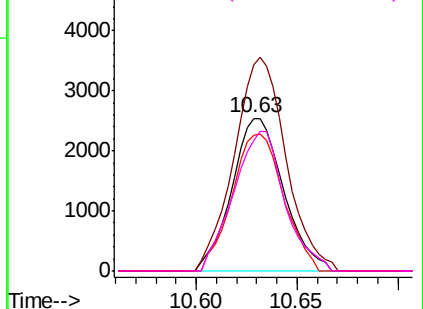


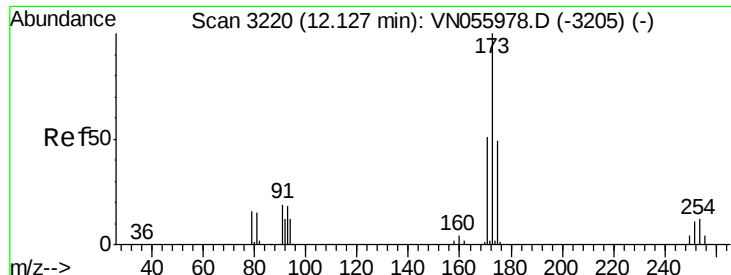
Abundance Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V

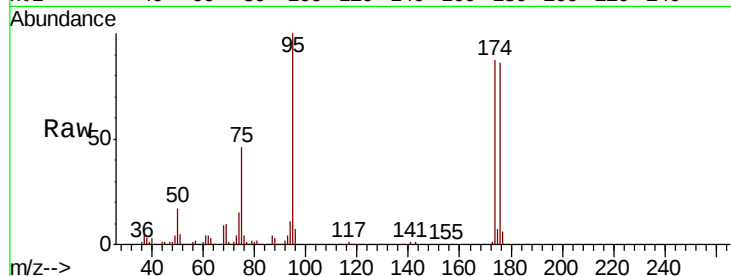




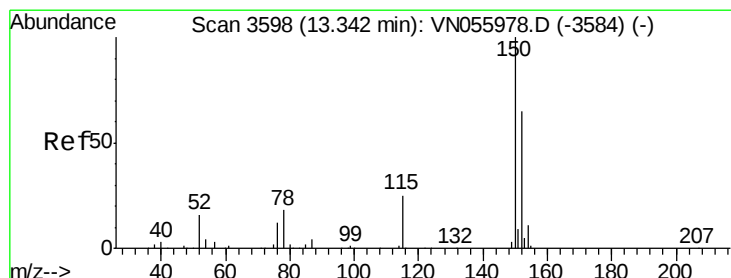
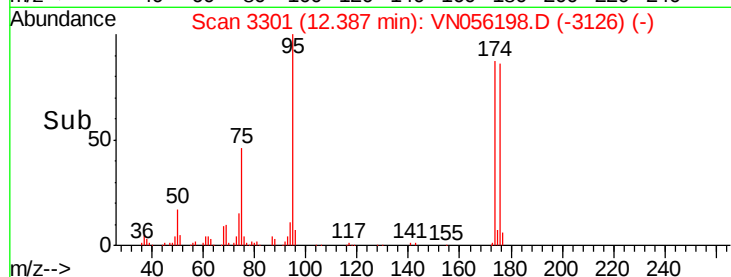
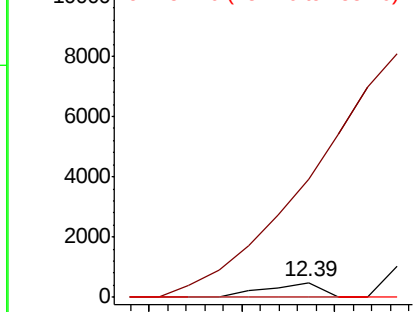
#71
Bromoform
Concen: 2.810 ug/l
RT: 12.39 min Scan# 3301
Delta R.T. 0.26 min
Lab File: VN056198.D
Acq: 11 Jun 2019 4:20

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:173 Resp: 201
Ion Ratio Lower Upper
173 100
175 0.0 24.3 72.8#
254 0.0 0.0 0.0

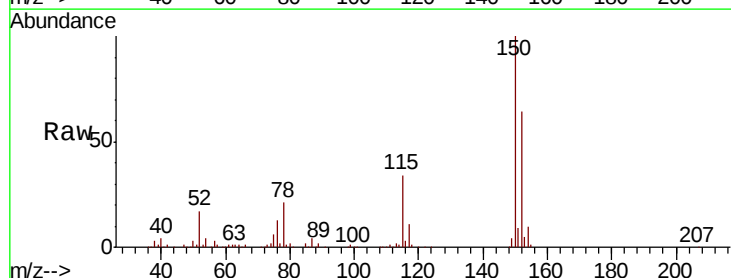


Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V

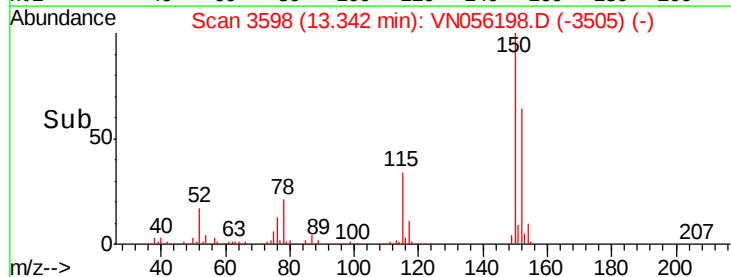
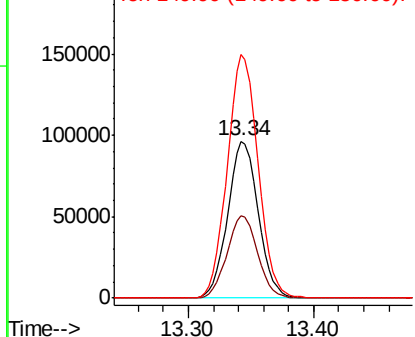


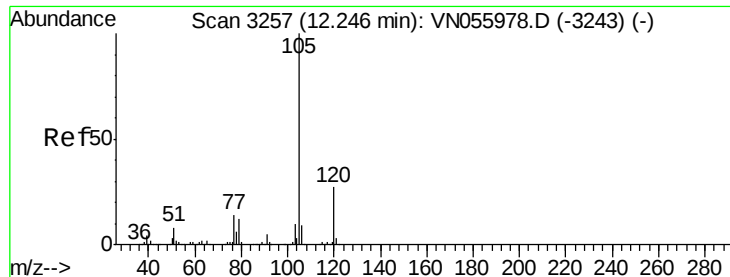
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3598
Delta R.T. 0.00 min
Lab File: VN056198.D
Acq: 11 Jun 2019 4:20

Tgt Ion:152 Resp: 162507
Ion Ratio Lower Upper
152 100
115 52.8 27.0 81.0
150 156.3 0.0 343.2



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





#73

Isopropylbenzene

Concen: Below Cal

RT: 12.40 min Scan# 3304

Delta R.T. 0.15 min

Lab File: VN056198.D

Acq: 11 Jun 2019 4:20

Instrument :

MSVOA_N

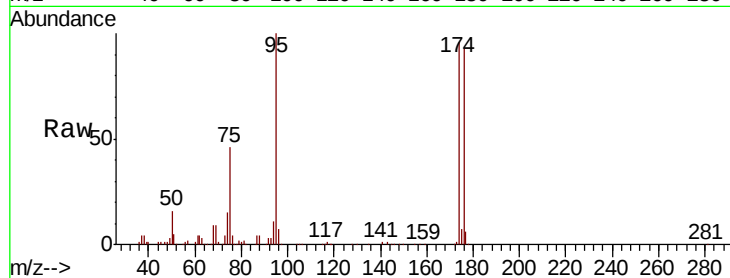
ClientSampleId :

Tot Ion: 105 Resp: 30

Ion Ratio Lower Upper

105 100

120 0.0 13.6 40.7#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

12.40

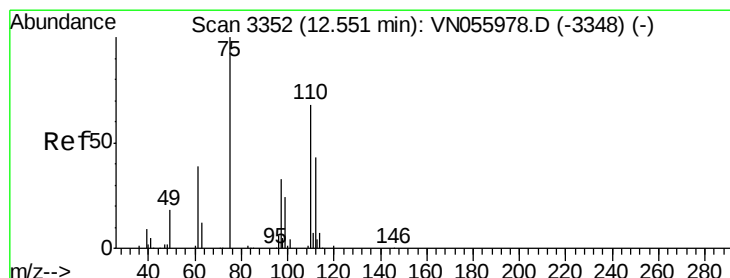
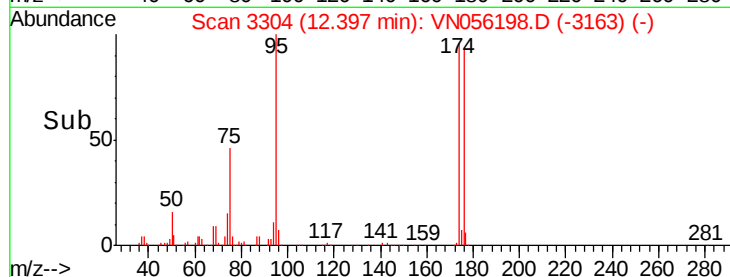
150

100

50

0

Time-->



#76

1,2,3-Trichloropropane

Concen: 31.579 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN056198.D

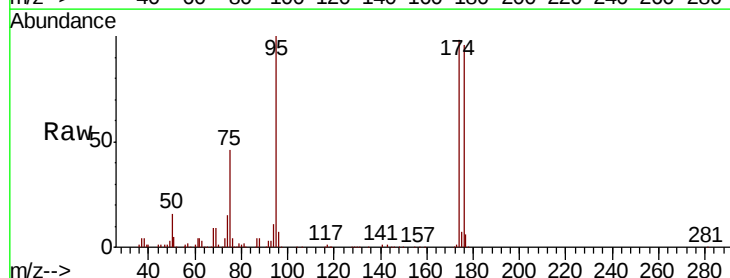
Acq: 11 Jun 2019 4:20

Tgt Ion: 75 Resp: 94428

Ion Ratio Lower Upper

75 100

77 1.0 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V

12.40

60000

50000

40000

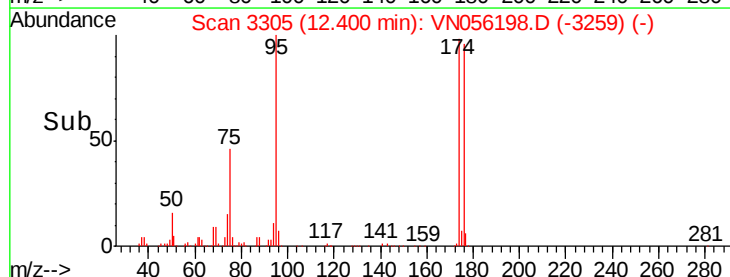
30000

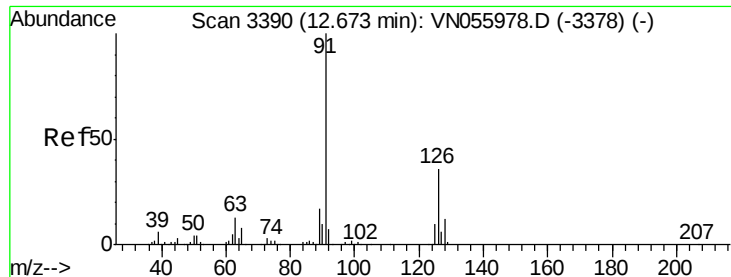
20000

10000

0

Time-->





#79

2-Chlorotoluene

Concen: Below Cal

RT: 12.59 min Scan# 3364

Delta R.T. -0.08 min

Lab File: VN056198.D

Acq: 11 Jun 2019 4:20

Instrument :

MSVOA_N

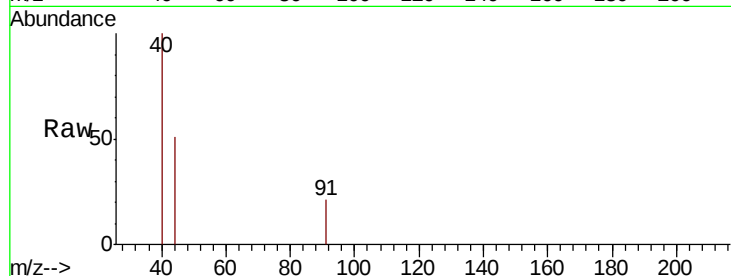
ClientSampled :

Tot Ion: 91 Resp: 240

Ion Ratio Lower Upper

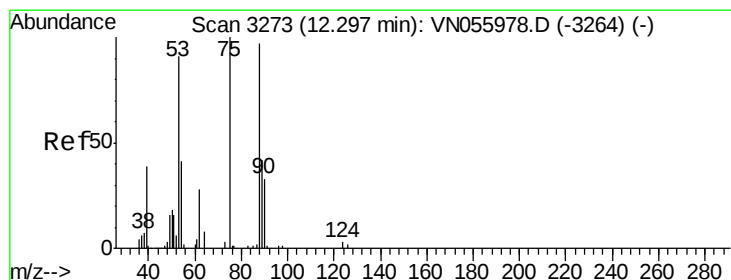
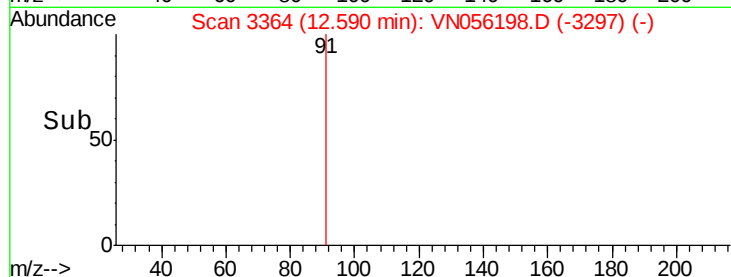
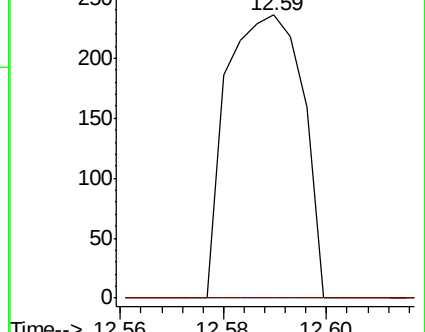
91 100

126 0.0 18.1 54.4#



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 125.90 (125.60 to 126.60): V



#81

trans-1,4-Dichloro-2-butene

Concen: 105.165 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN056198.D

Acq: 11 Jun 2019 4:20

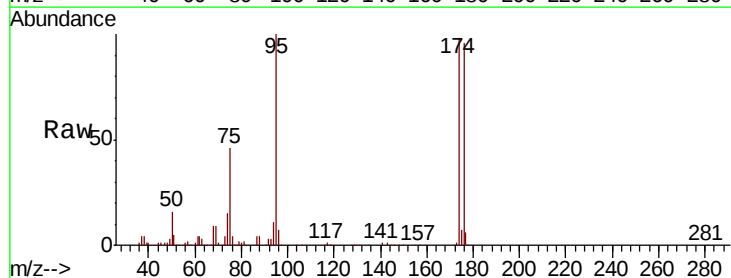
Tgt Ion: 75 Resp: 94428

Ion Ratio Lower Upper

75 100

53 0.0 68.1 102.1#

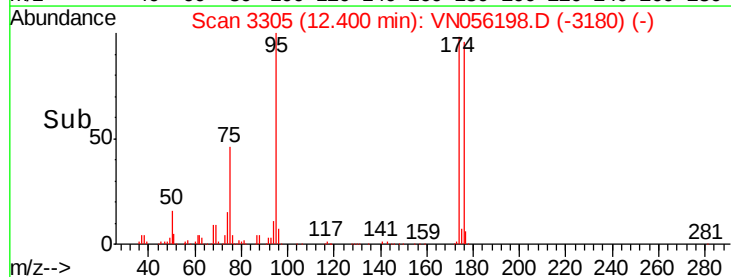
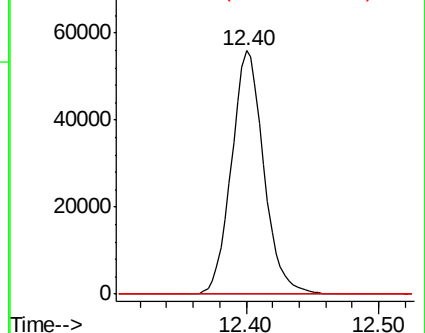
89 0.0 36.9 55.3#

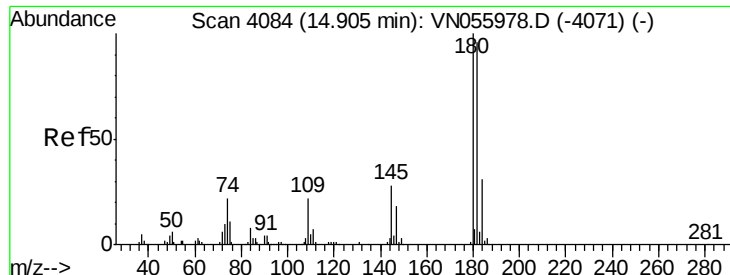


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0

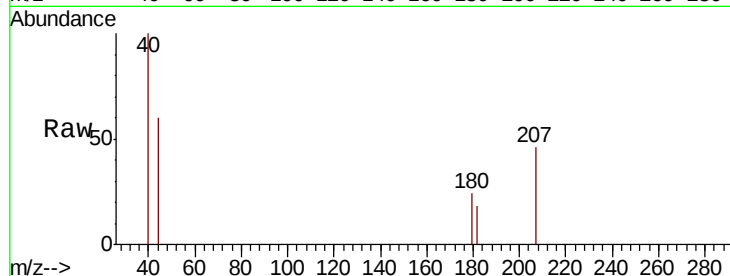




#93
 1,2,4-Trichlorobenzene
 Concen: 4.358 ug/l
 RT: 14.91 min Scan# 4087
 Delta R.T. 0.01 min
 Lab File: VN056198.D
 Acq: 11 Jun 2019 4:20

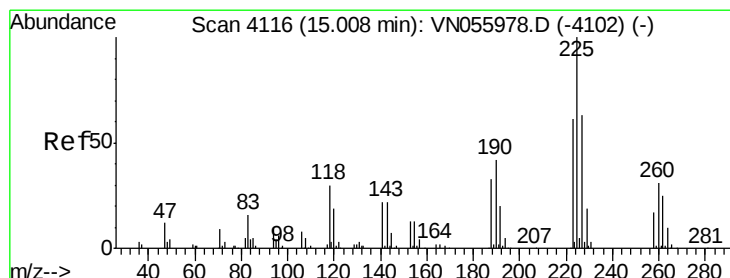
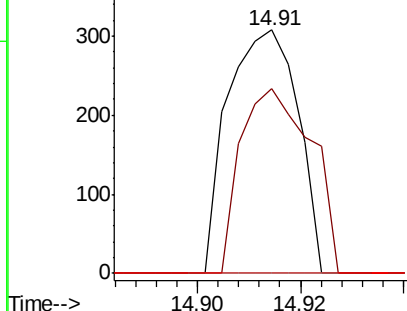
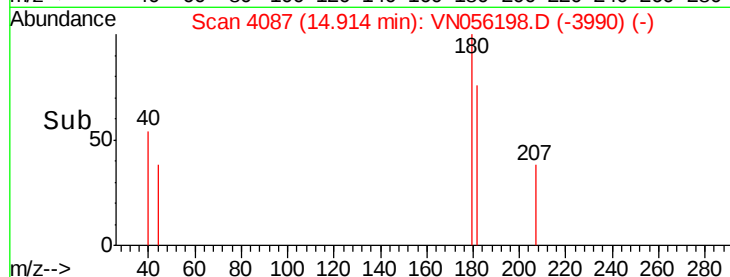
Instrument :
 MSVOA_N
 ClientSampled :

Tot Ion	Ratio	Lower	Upper
180	100		
182	76.5	48.3	144.9
145	0.0	14.0	41.9#



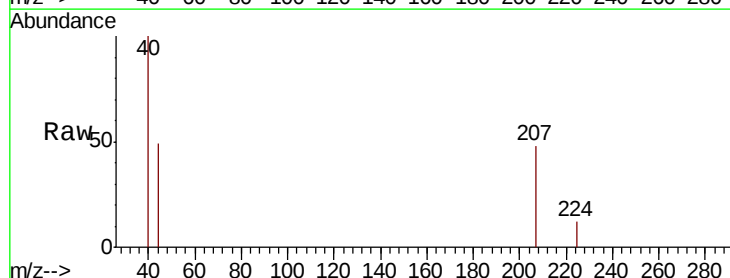
Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

14.91



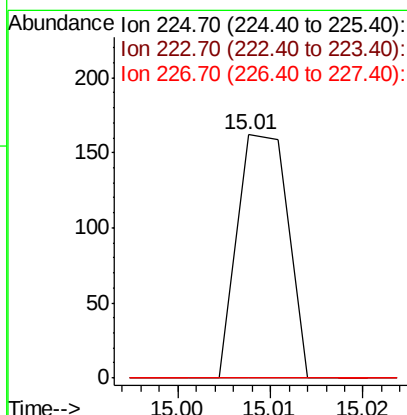
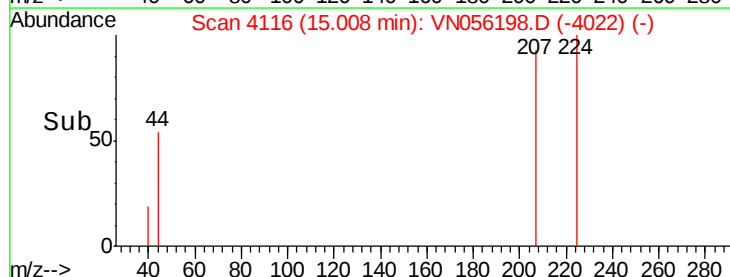
#94
 Hexachlorobutadiene
 Concen: Below Cal
 RT: 15.01 min Scan# 4116
 Delta R.T. 0.00 min
 Lab File: VN056198.D
 Acq: 11 Jun 2019 4:20

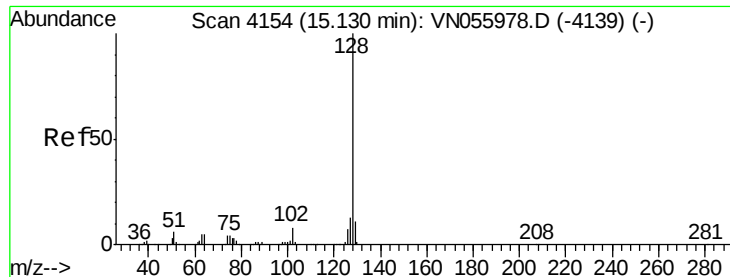
Tgt Ion	Ratio	Lower	Upper
225	100		
223	0.0	30.9	92.7#
227	0.0	31.6	94.7#



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

15.01





#95

Naphthalene

Concen: 4.414 ug/l

RT: 15.14 min Scan# 4156

Delta R.T. 0.01 min

Lab File: VN056198.D

Acq: 11 Jun 2019 4:20

Instrument :

MSVOA_N

ClientSampleId :

Tot Ion:128 Resp: 4739

Ion Ratio Lower Upper

128 100

127 13.0

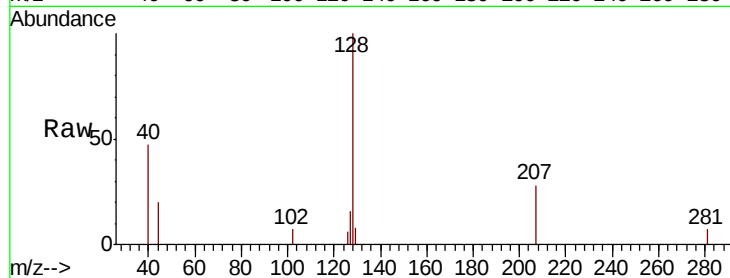
10.3

15.5

129 8.3

8.7

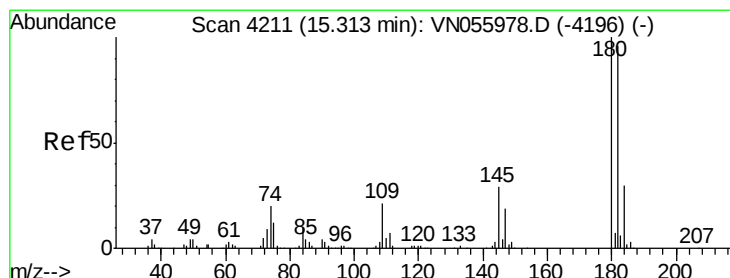
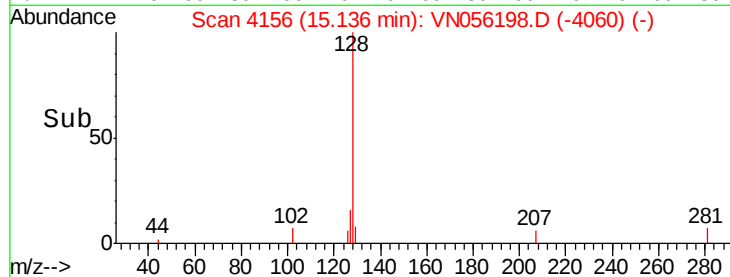
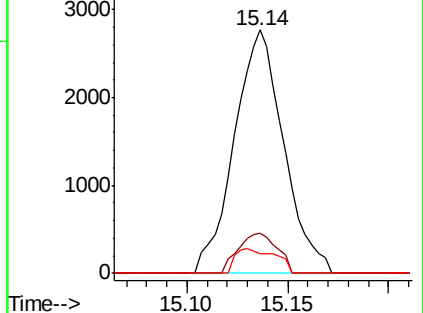
13.1#



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



#96

1,2,3-Trichlorobenzene

Concen: 3.085 ug/l

RT: 15.31 min Scan# 4209

Delta R.T. -0.01 min

Lab File: VN056198.D

Acq: 11 Jun 2019 4:20

Tgt Ion:180 Resp: 175

Ion Ratio Lower Upper

180 100

182 137.1

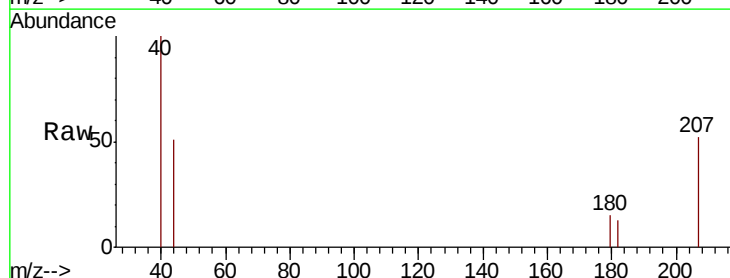
47.9

143.7

145 0.0

14.9

44.7#



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

