

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN040219\
 Data File : VN054894.D
 Acq On : 2 Apr 2019 11:53
 Operator : JC/SP
 Sample : K2186-16
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Apr 03 05:04:20 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N032919W.M
 Quant Title : SW846 8260
 QLast Update : Sat Mar 30 00:48:18 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	545493	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	885614	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	756488	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	255545	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	356050	48.42	ug/l	0.00
Spiked Amount			Recovery	=	96.84%	
35) Dibromofluoromethane	7.59	113	283356	47.99	ug/l	0.00
Spiked Amount			Recovery	=	95.98%	
50) Toluene-d8	10.09	98	1065190	48.53	ug/l	0.00
Spiked Amount			Recovery	=	97.06%	
62) 4-Bromofluorobenzene	12.40	95	323636	44.33	ug/l	0.00
Spiked Amount			Recovery	=	88.66%	

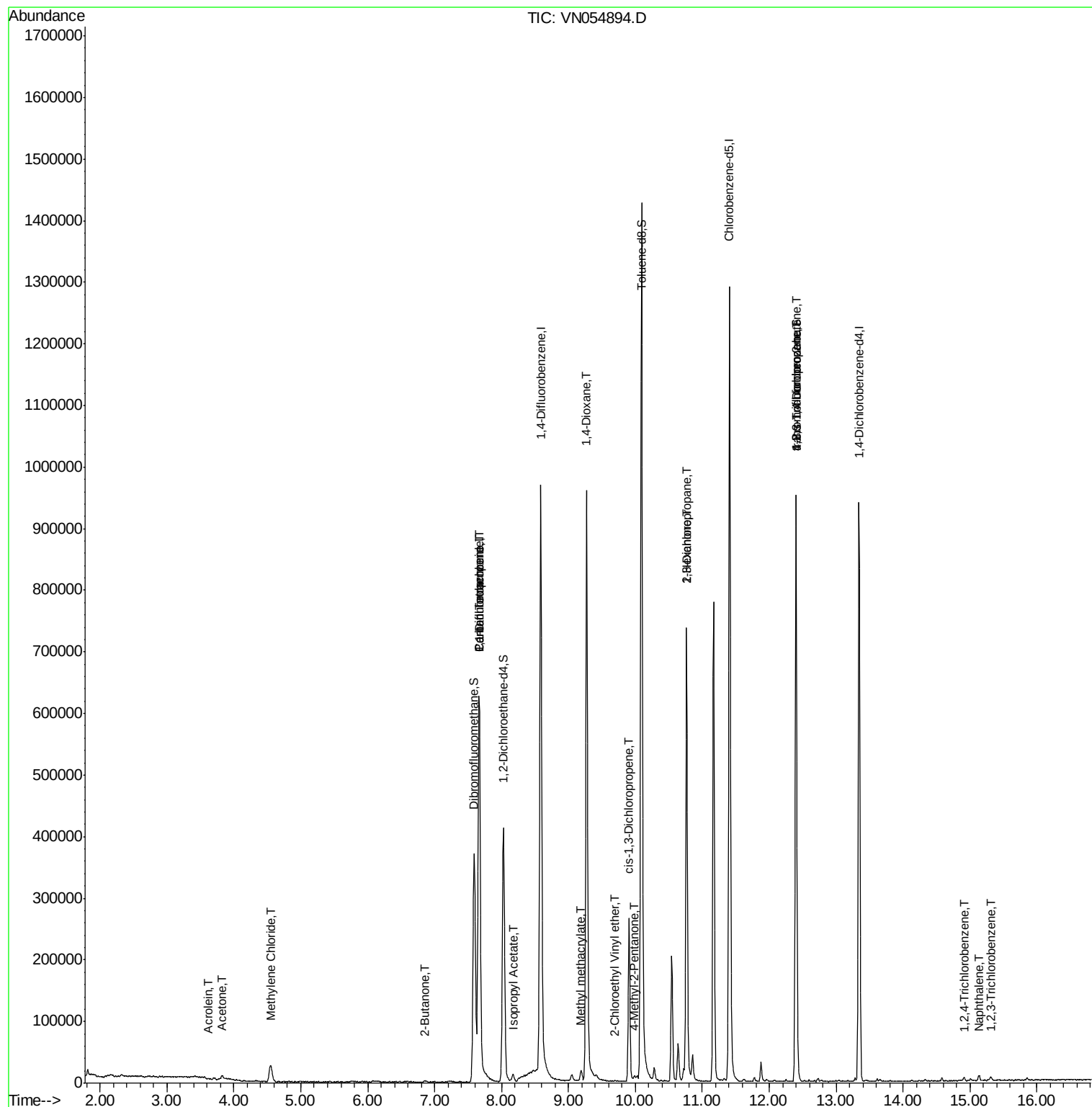
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.57	94	324	Below Cal	#	2
13) Acrolein	3.62	56	302	0.882	ug/l #	1
16) Acetone	3.82	43	9077	5.176	ug/l	94
18) Methyl Acetate	4.33	43	556	Below Cal	#	1
20) Methylene Chloride	4.55	84	17955	2.903	ug/l #	79
25) 2-Butanone	6.85	43	1099	0.424	ug/l	90
31) Cyclohexane	7.66	56	11104	Below Cal	#	6
36) 1,1-Dichloropropene	7.66	75	42105	5.102	ug/l #	48
38) Carbon Tetrachloride	7.66	117	50997	6.363	ug/l #	16
43) Isopropyl Acetate	8.18	43	14004	1.424	ug/l #	93
48) Methyl methacrylate	9.18	41	6361	1.193	ug/l #	30
49) 1,4-Dioxane	9.27	88	96	1.815	ug/l #	1
51) 4-Methyl-2-Pentanone	9.99	43	5893	1.066	ug/l	89
54) cis-1,3-Dichloropropene	9.90	75	43044	4.866	ug/l #	74
57) 1,3-Dichloropropane	10.76	76	7279	0.810	ug/l #	43
58) 2-Chloroethyl Vinyl ether	9.69	63	198	10.419	ug/l #	72
59) 2-Hexanone	10.77	43	123545	34.909	ug/l #	49
75) 1,1,2,2-Tetrachloroethane	12.51	83	228	Below Cal	#	75
76) 1,2,3-Trichloropropane	12.40	75	168037	37.851	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	168037	147.232	ug/l #	11
83) tert-Butylbenzene	12.99	119	1025	Below Cal	#	82
93) 1,2,4-Trichlorobenzene	14.91	180	1861	0.453	ug/l	94
94) Hexachlorobutadiene	15.00	225	651	Below Cal		79
95) Naphthalene	15.13	128	7090	0.770	ug/l	96
96) 1,2,3-Trichlorobenzene	15.31	180	2350	0.567	ug/l #	85

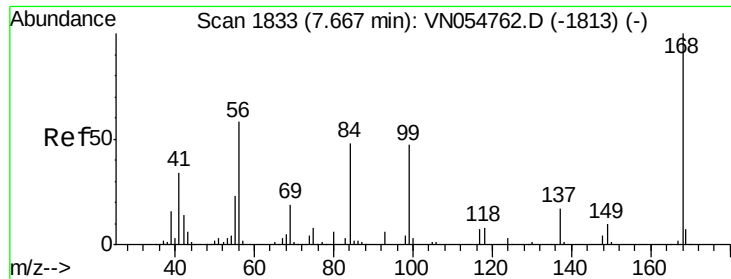
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Apr 03 05:04:20 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N032919W.M
Quant Title : SW846 8260
QLast Update : Sat Mar 30 00:48:18 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN054894.D

Acq: 2 Apr 2019 11:53

Instrument :

MSVOA_N

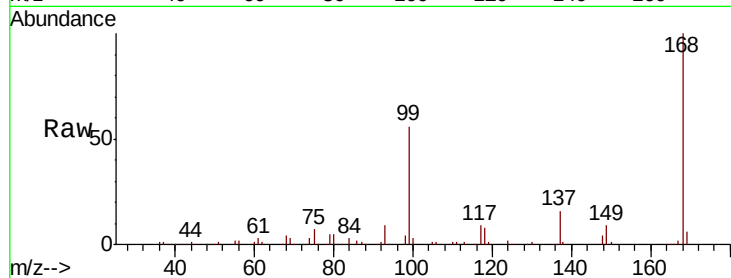
ClientSampled :

Tot Ion:168 Resp: 545493

Ion Ratio Lower Upper

168 100

99 55.5 37.1 55.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

7.67

250000

200000

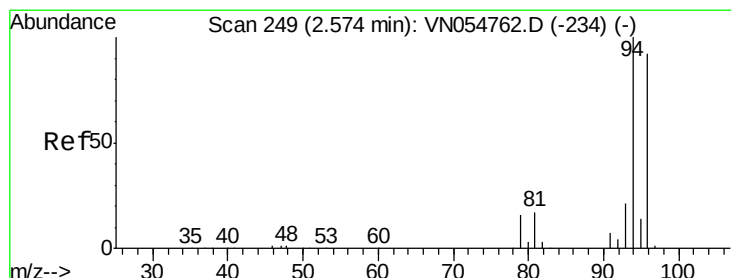
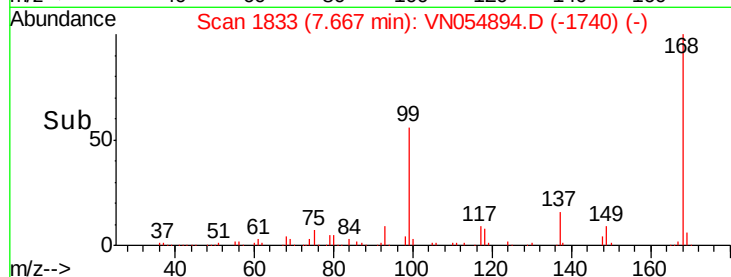
150000

100000

50000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 2.57 min Scan# 247

Delta R.T. -0.01 min

Lab File: VN054894.D

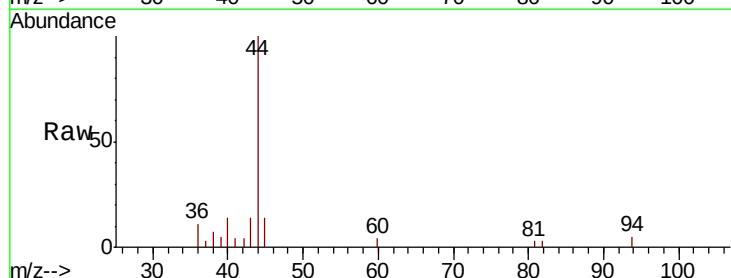
Acq: 2 Apr 2019 11:53

Tgt Ion: 94 Resp: 324

Ion Ratio Lower Upper

94 100

96 0.0 77.0 115.4#



Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0

500

400

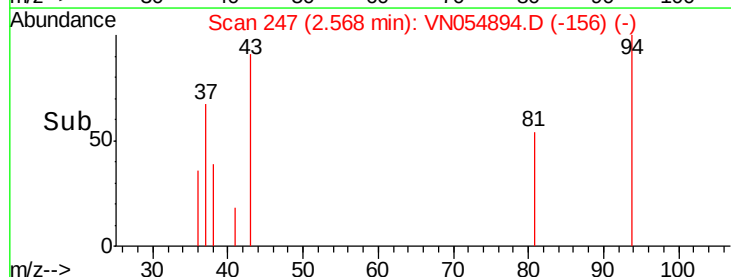
300

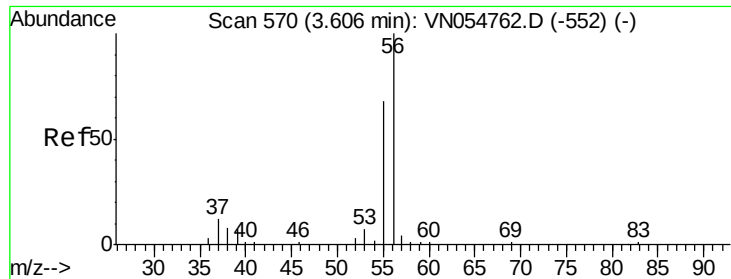
200

100

0

Time-->





#13

Acrolein

Concen: 0.882 ug/l

RT: 3.62 min Scan# 574

Delta R.T. 0.01 min

Lab File: VN054894.D

Acq: 2 Apr 2019 11:53

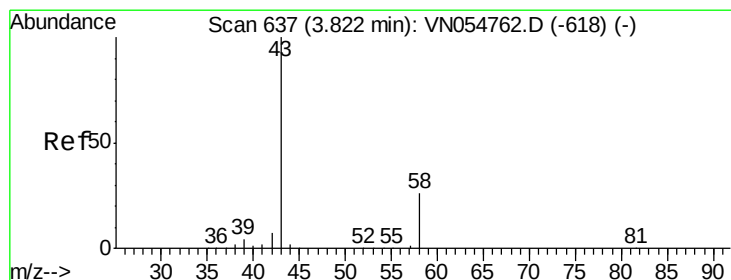
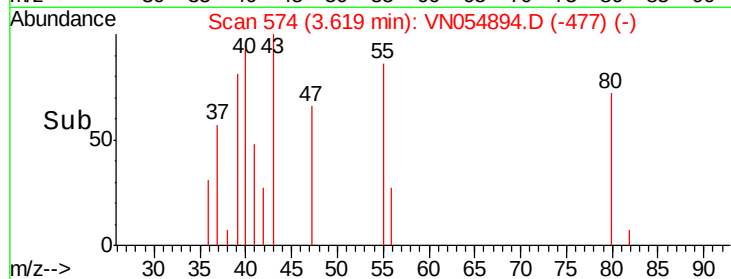
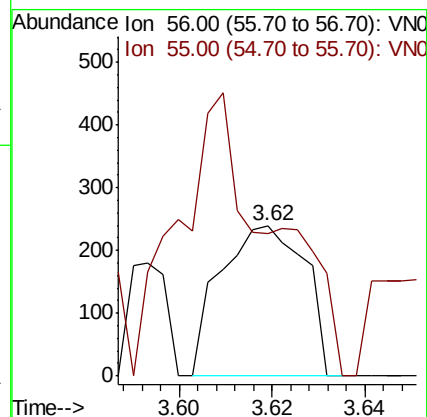
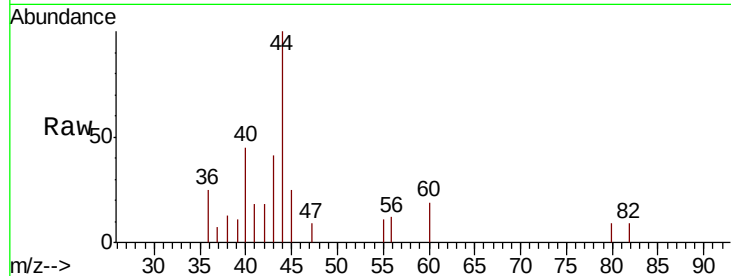
Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 56 Resp: 302

Ion Ratio Lower Upper

56 100

55 209.6 56.7 85.1#



#16

Acetone

Concen: 5.176 ug/l

RT: 3.82 min Scan# 638

Delta R.T. 0.00 min

Lab File: VN054894.D

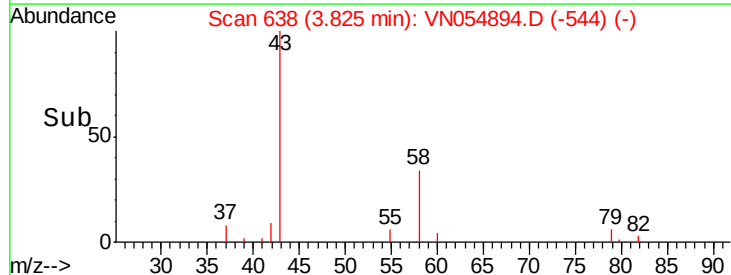
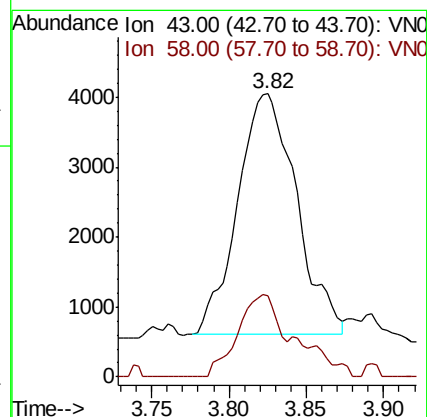
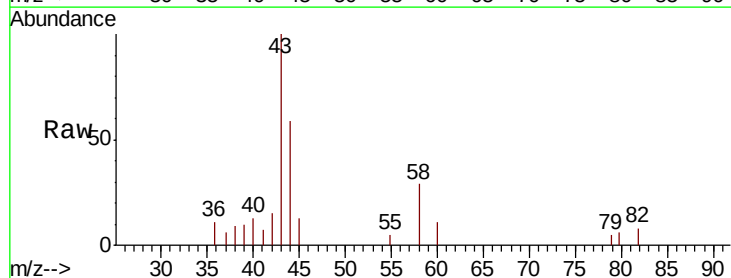
Acq: 2 Apr 2019 11:53

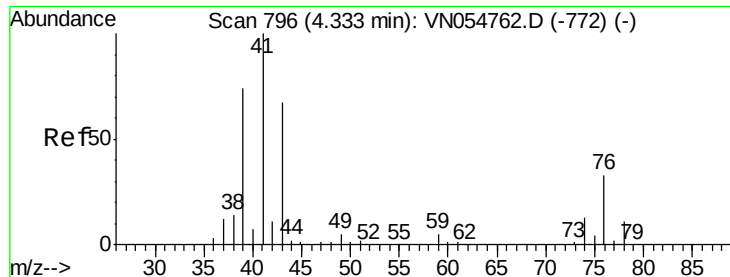
Tgt Ion: 43 Resp: 9077

Ion Ratio Lower Upper

43 100

58 33.6 29.9 44.9

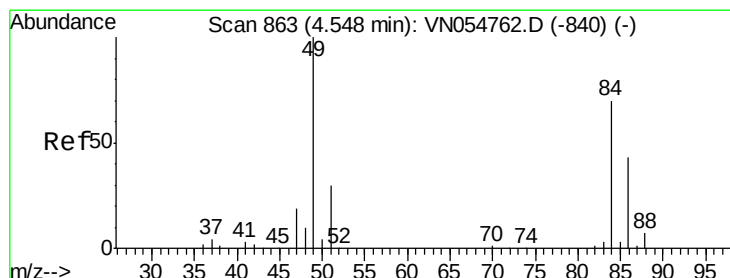
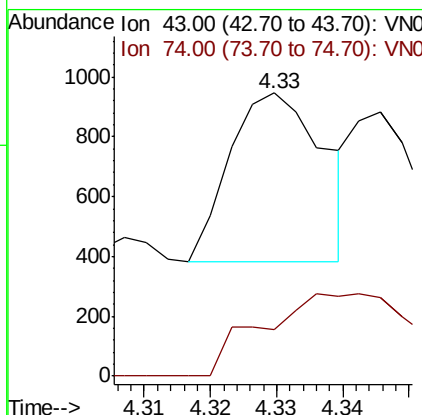
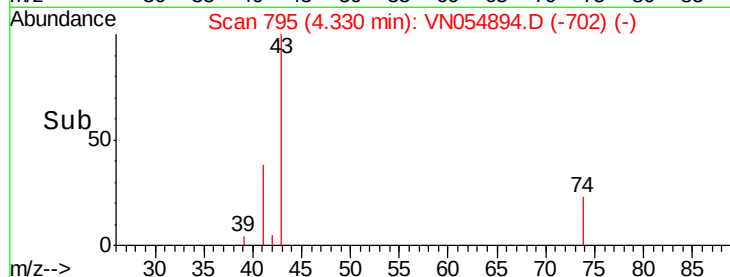
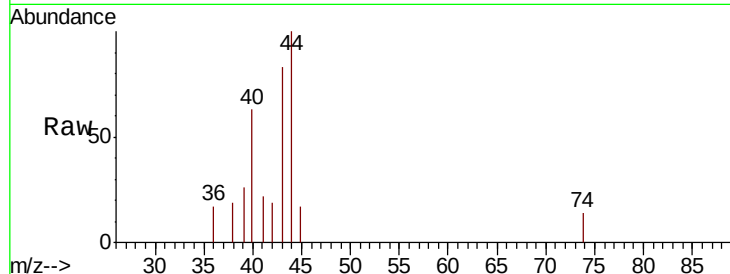




#18
Methvl Acetate
Concen: Below Cal
RT: 4.33 min Scan# 795
Delta R.T. -0.00 min
Lab File: VN054894.D
Acq: 2 Apr 2019 11:53

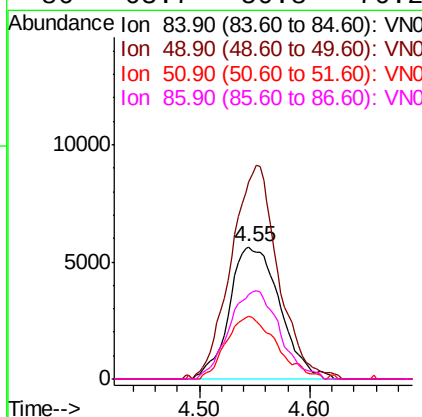
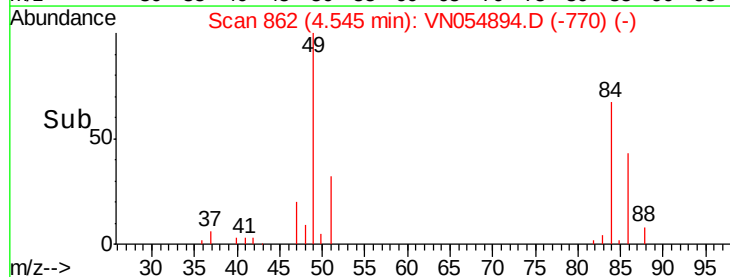
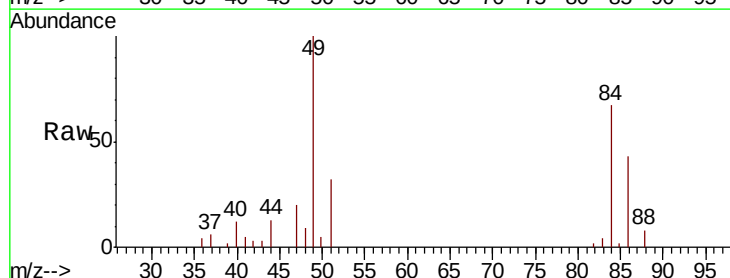
Instrument :
MSVOA_N
ClientSampleId :

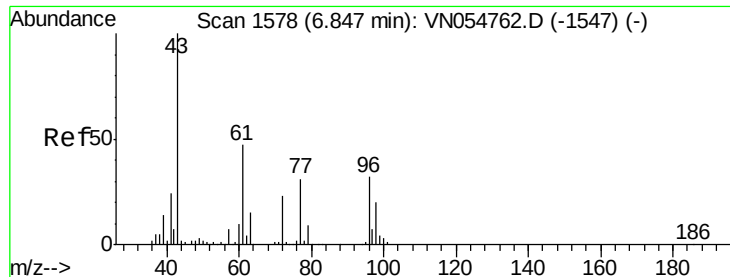
Tot Ion: 43 Resp: 556
Ion Ratio Lower Upper
43 100
74 79.7 20.8 31.2#



#20
Methylene Chloride
Concen: 2.903 ug/l
RT: 4.55 min Scan# 862
Delta R.T. -0.00 min
Lab File: VN054894.D
Acq: 2 Apr 2019 11:53

Tgt Ion: 84 Resp: 17955
Ion Ratio Lower Upper
84 100
49 146.3 89.7 134.5#
51 47.2 28.2 42.4#
86 63.7 50.8 76.2





#25

2-Butanone

Concen: 0.424 ug/l

RT: 6.85 min Scan# 1580

Delta R.T. 0.01 min

Lab File: VN054894.D

Acq: 2 Apr 2019 11:53

Instrument :

MSVOA_N

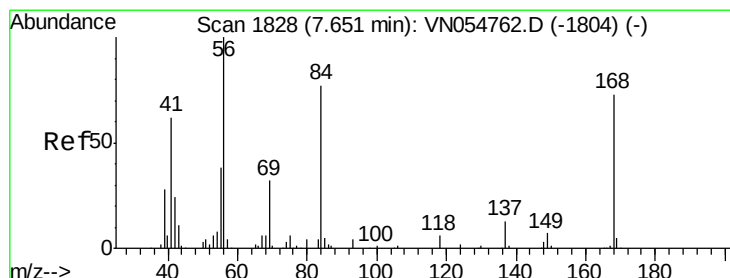
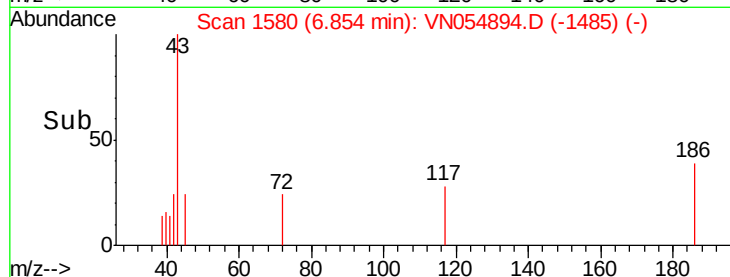
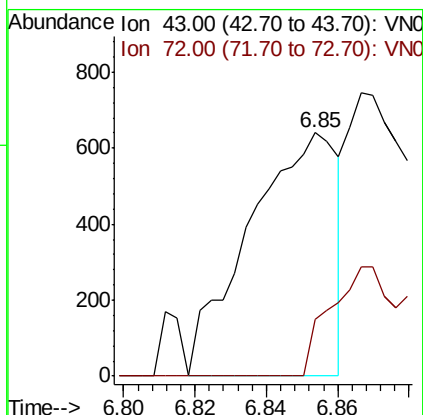
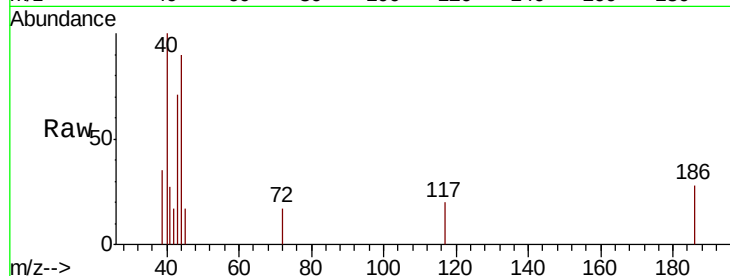
ClientSampled :

Tot Ion: 43 Resp: 1099

Ion Ratio Lower Upper

43 100

72 23.6 23.0 34.6



#31

Cyclohexane

Concen: Below Cal

RT: 7.66 min Scan# 1832

Delta R.T. 0.01 min

Lab File: VN054894.D

Acq: 2 Apr 2019 11:53

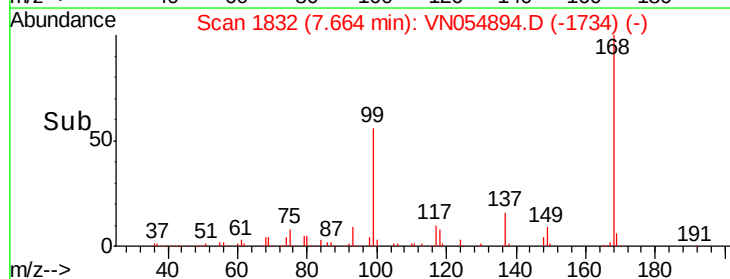
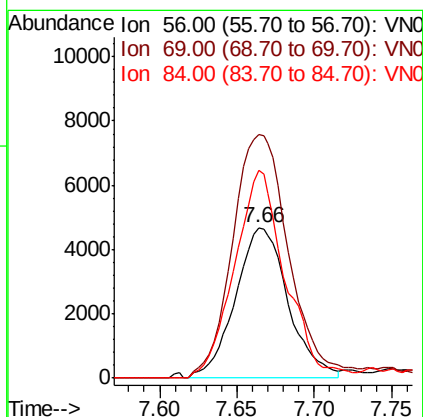
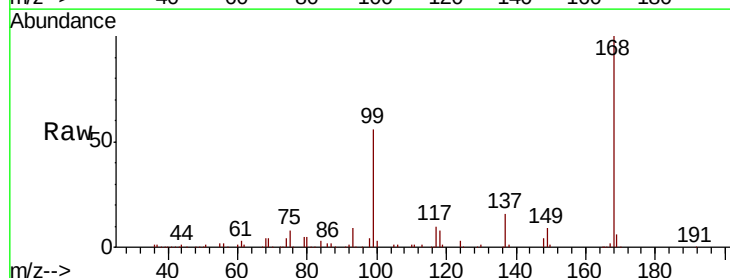
Tgt Ion: 56 Resp: 11104

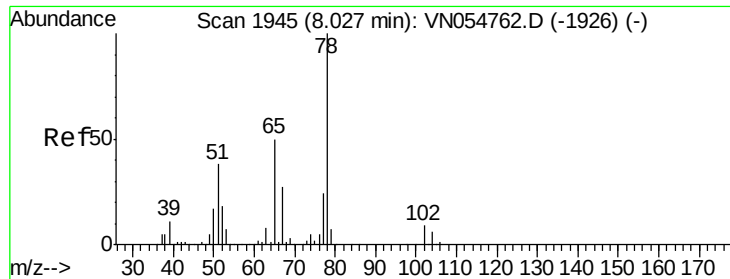
Ion Ratio Lower Upper

56 100

69 162.0 27.8 41.6#

84 138.5 74.6 111.8#

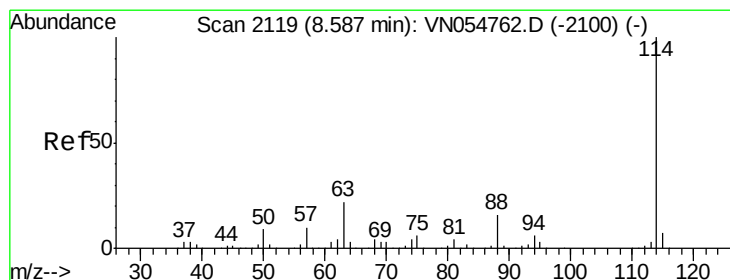
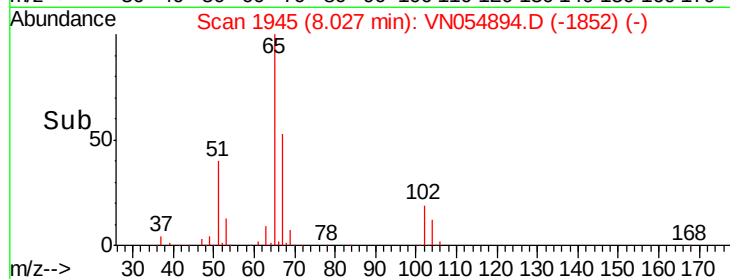
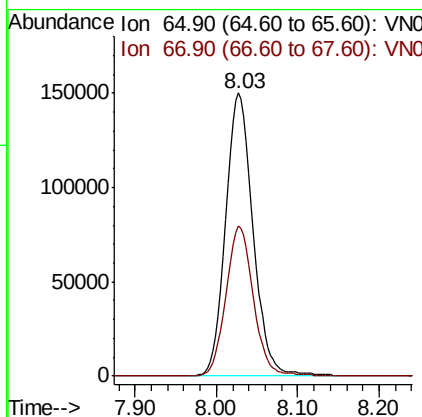
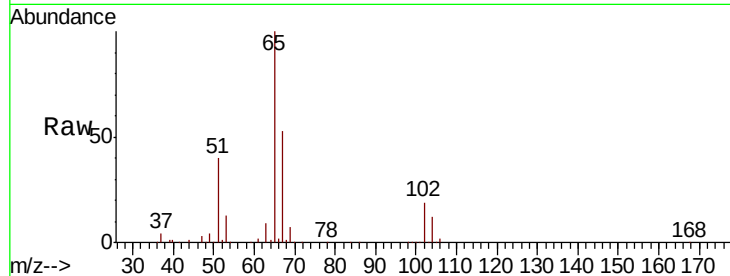




#33
 1,2-Dichloroethane-d4
 Concen: 48.420 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN054894.D
 Acq: 2 Apr 2019 11:53

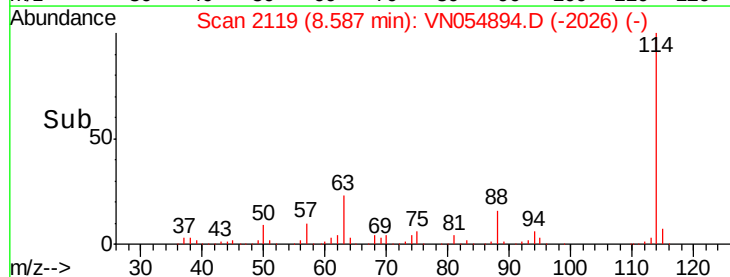
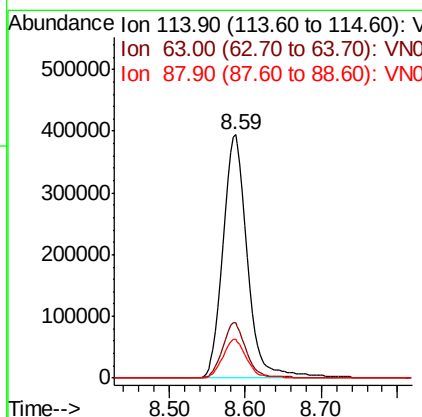
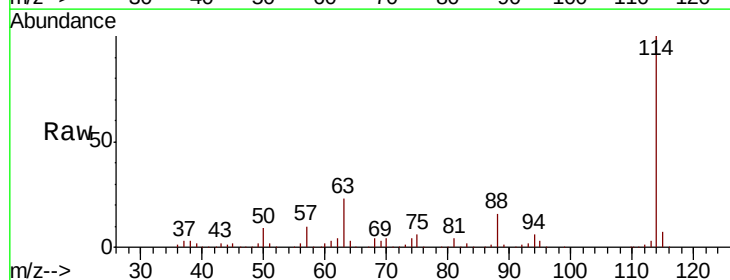
Instrument :
 MSVOA_N
 ClientSampleId :

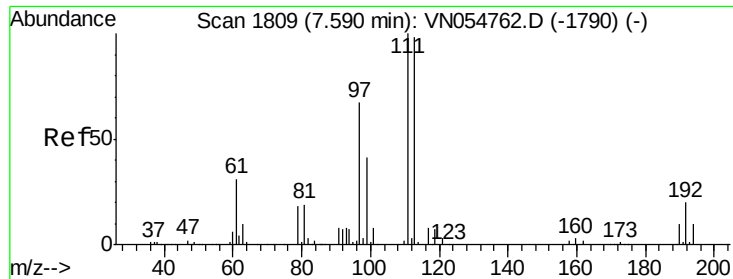
Tot Ion: 65 Resp: 356050
 Ion Ratio Lower Upper
 65 100
 67 53.2 0.0 104.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN054894.D
 Acq: 2 Apr 2019 11:53

Tgt Ion: 114 Resp: 885614
 Ion Ratio Lower Upper
 114 100
 63 22.9 0.0 35.2
 88 15.9 0.0 30.2

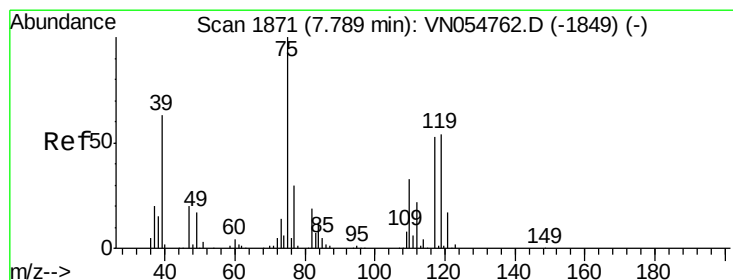
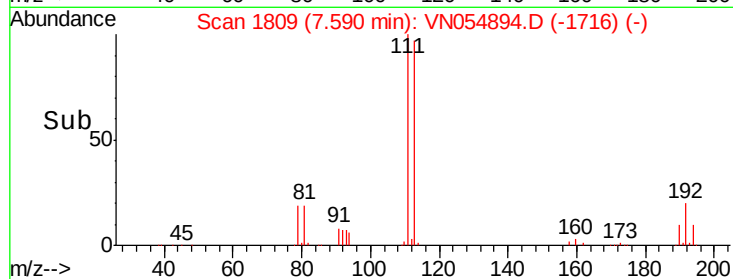
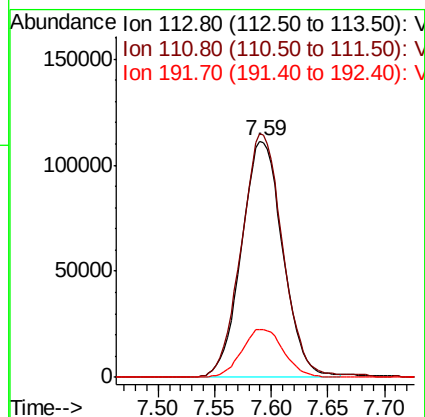
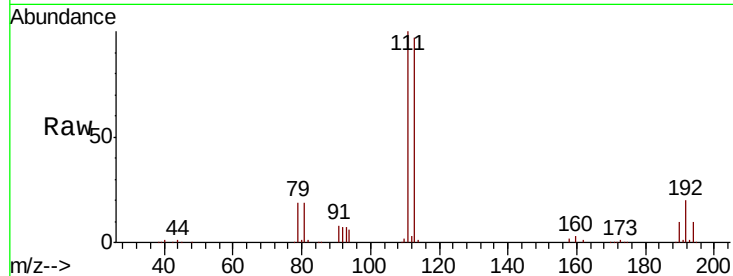




#35
Dibromofluoromethane
Concen: 47.991 ug/l
RT: 7.59 min Scan# 1809
Delta R.T. 0.00 min
Lab File: VN054894.D
Acq: 2 Apr 2019 11:53

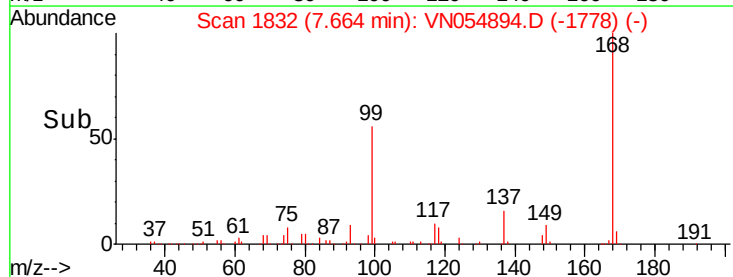
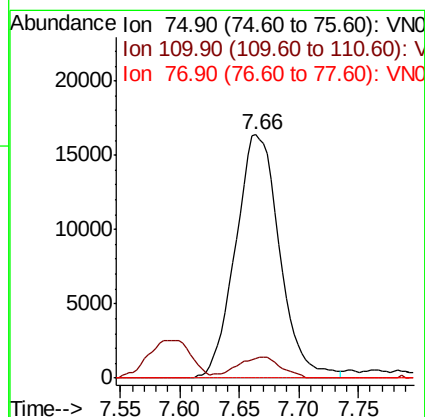
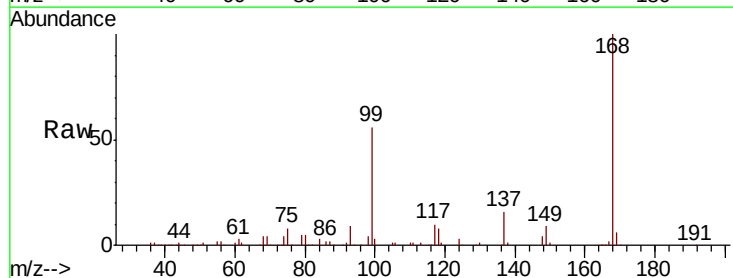
Instrument :
MSVOA_N
ClientSampleId :

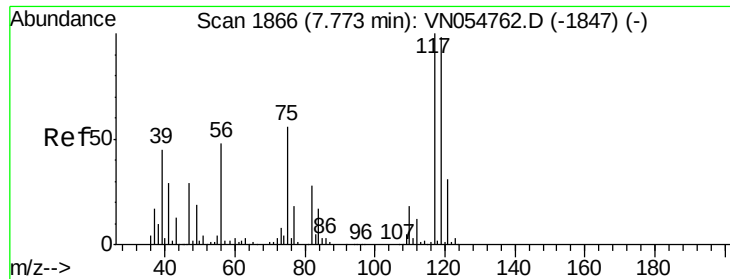
Tot Ion:113 Resp: 283356
Ion Ratio Lower Upper
113 100
111 103.2 82.2 123.4
192 20.6 19.2 28.8



#36
1,1-Dichloropropene
Concen: 5.102 ug/l
RT: 7.66 min Scan# 1832
Delta R.T. -0.13 min
Lab File: VN054894.D
Acq: 2 Apr 2019 11:53

Tgt Ion: 75 Resp: 42105
Ion Ratio Lower Upper
75 100
110 8.6 19.1 57.5#
77 0.0 25.0 37.4#

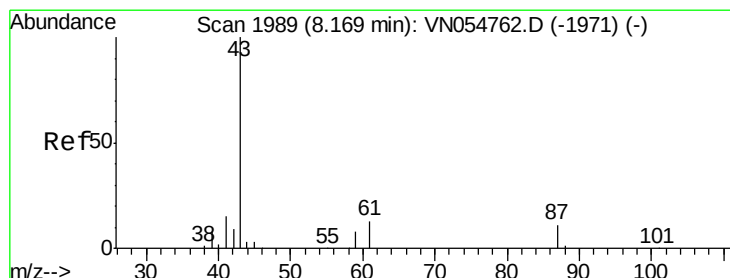
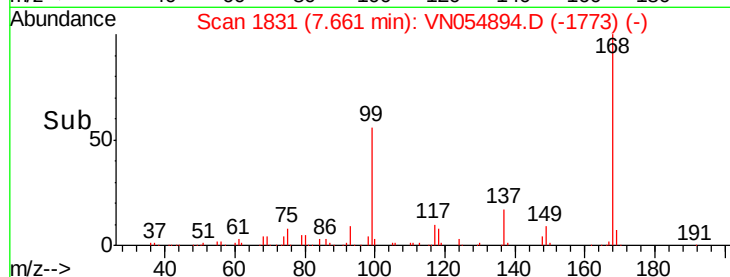
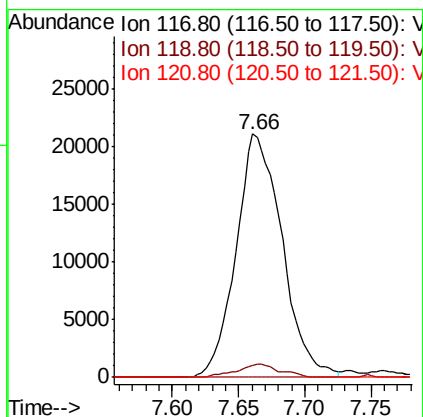
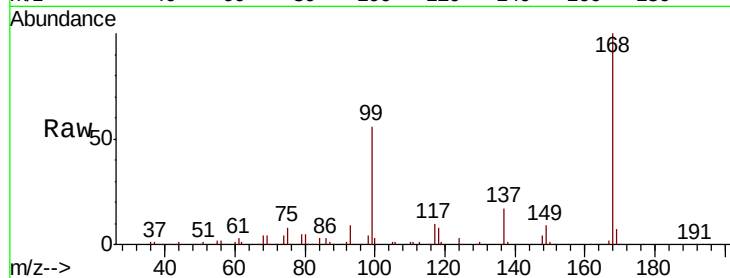




#38
Carbon Tetrachloride
Concen: 6.363 ug/l
RT: 7.66 min Scan# 1831
Delta R.T. -0.11 min
Lab File: VN054894.D
Acq: 2 Apr 2019 11:53

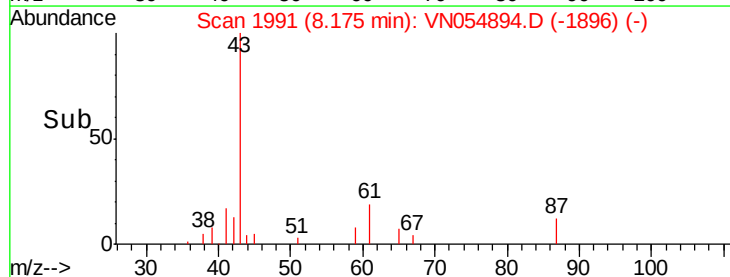
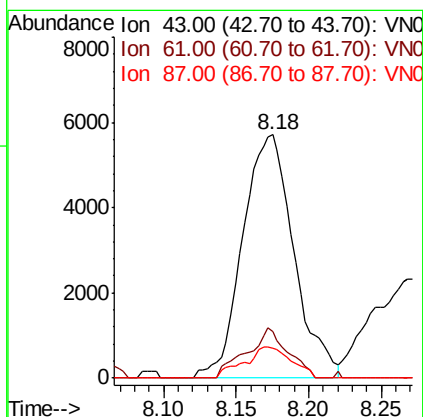
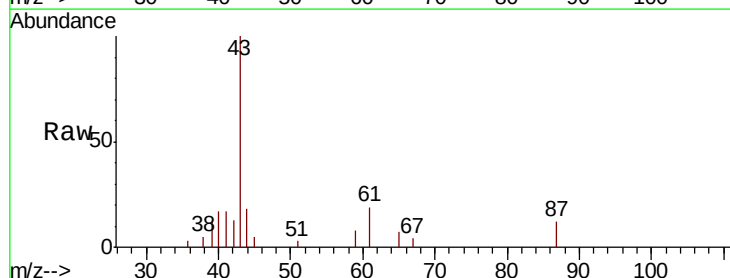
Instrument :
MSVOA_N
ClientSampleId :

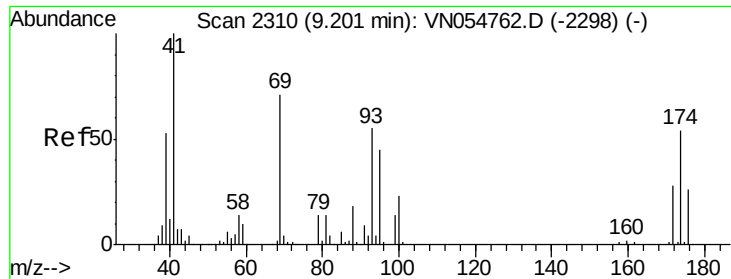
Tot Ion:117 Resp: 50997
Ion Ratio Lower Upper
117 100
119 5.0 76.3 114.5#
121 0.0 24.6 36.8#



#43
Isopropyl Acetate
Concen: 1.424 ug/l
RT: 8.18 min Scan# 1991
Delta R.T. 0.01 min
Lab File: VN054894.D
Acq: 2 Apr 2019 11:53

Tgt Ion: 43 Resp: 14004
Ion Ratio Lower Upper
43 100
61 16.5 15.8 23.8
87 11.7 12.0 18.0#

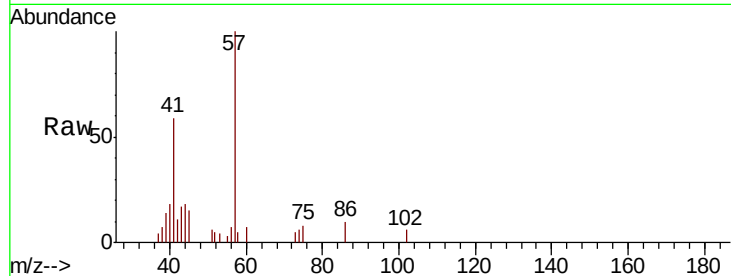




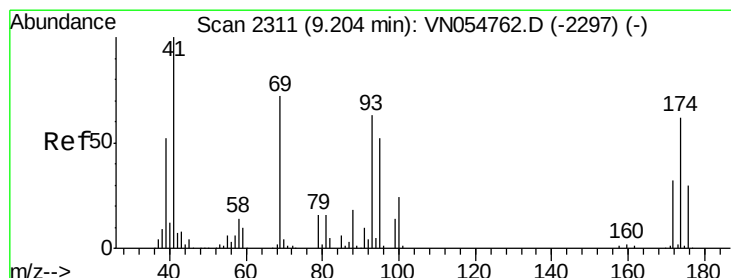
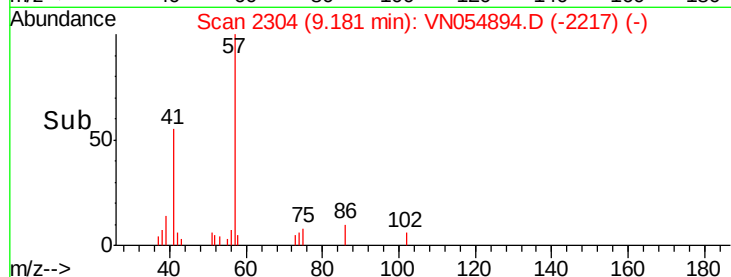
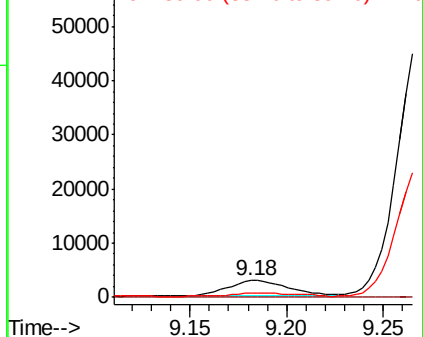
#48
Methyl methacrylate
Concen: 1.193 ug/l
RT: 9.18 min Scan# 2304
Delta R.T. -0.02 min
Lab File: VN054894.D
Acq: 2 Apr 2019 11:53

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 41 Resp: 6361
Ion Ratio Lower Upper
41 100
69 0.0 72.6 108.8#
39 37.1 47.5 71.3#

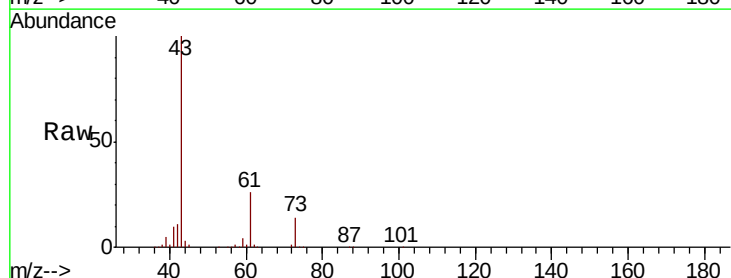


Abundance Ion 41.00 (40.70 to 41.70): VNC
Ion 69.00 (68.70 to 69.70): VNC
Ion 39.00 (38.70 to 39.70): VNC

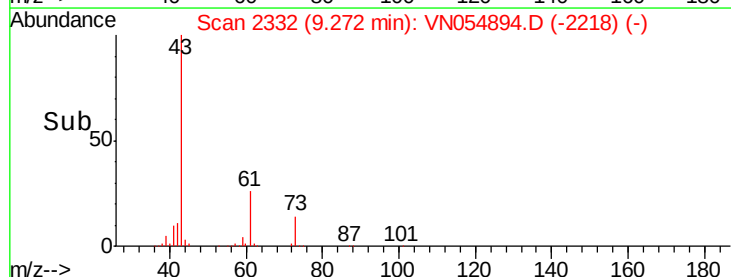
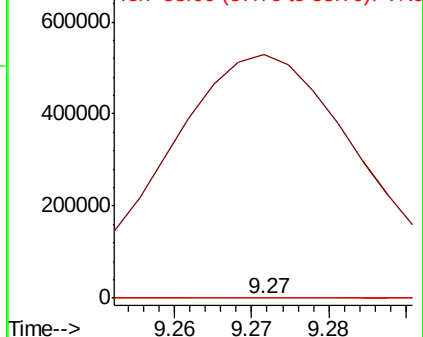


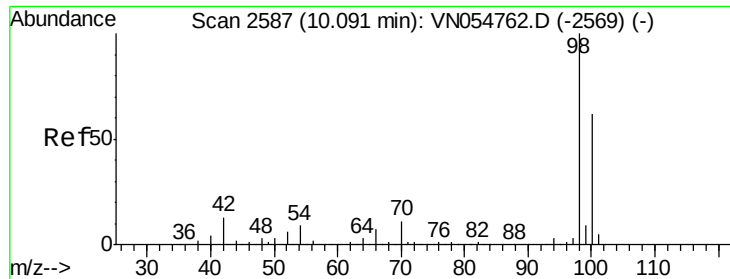
#49
1,4-Dioxane
Concen: 1.815 ug/l
RT: 9.27 min Scan# 2332
Delta R.T. 0.07 min
Lab File: VN054894.D
Acq: 2 Apr 2019 11:53

Tgt Ion: 88 Resp: 96
Ion Ratio Lower Upper
88 100
43 1071162.5 24.1 36.1#
58 4725.0 50.8 76.2#



Abundance Ion 88.00 (87.70 to 88.70): VNC
Ion 43.00 (42.70 to 43.70): VNC
Ion 58.00 (57.70 to 58.70): VNC





#50

Toluene-d8

Concen: 48.526 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN054894.D

Acq: 2 Apr 2019 11:53

Instrument :

MSVOA_N

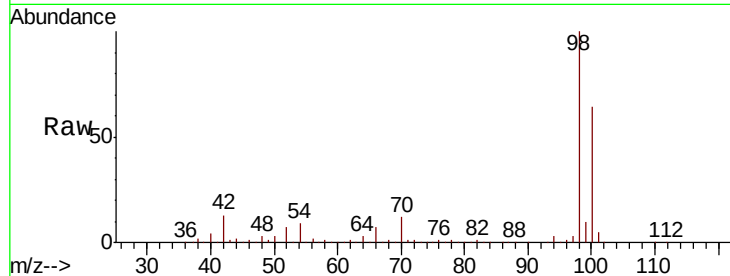
ClientSampled :

Tot Ion: 98 Resp: 1065190

Ion Ratio Lower Upper

98 100

100 64.4 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VN054762.D (-2569) (-)

Ion 100.00 (99.70 to 100.70): VN054762.D (-2569) (-)

10.09

600000

500000

400000

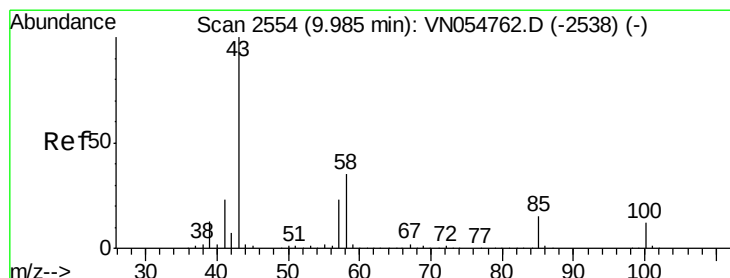
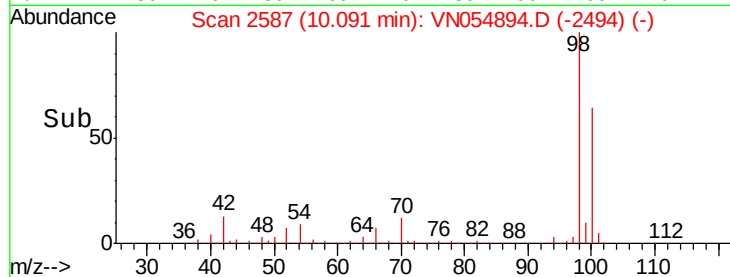
300000

200000

100000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 1.066 ug/l

RT: 9.99 min Scan# 2555

Delta R.T. 0.00 min

Lab File: VN054894.D

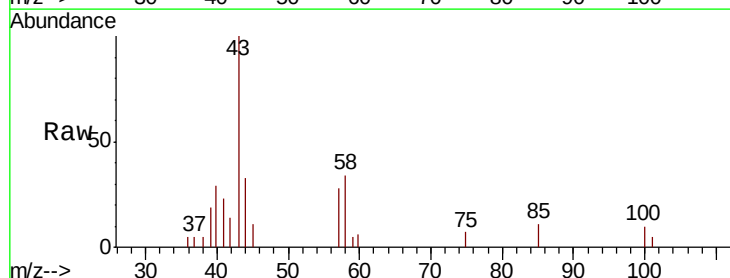
Acq: 2 Apr 2019 11:53

Tgt Ion: 43 Resp: 5893

Ion Ratio Lower Upper

43 100

58 32.7 31.8 47.6



Abundance Ion 43.00 (42.70 to 43.70): VN054762.D (-2538) (-)

Ion 58.00 (57.70 to 58.70): VN054762.D (-2538) (-)

9.99

5000

4000

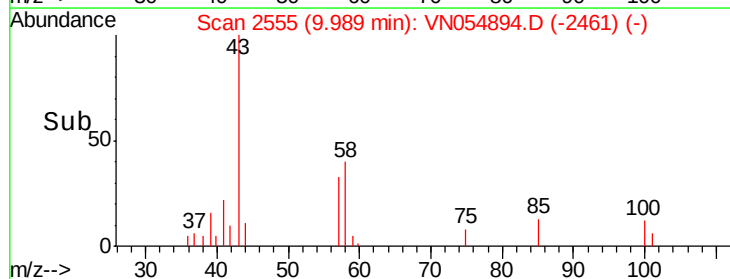
3000

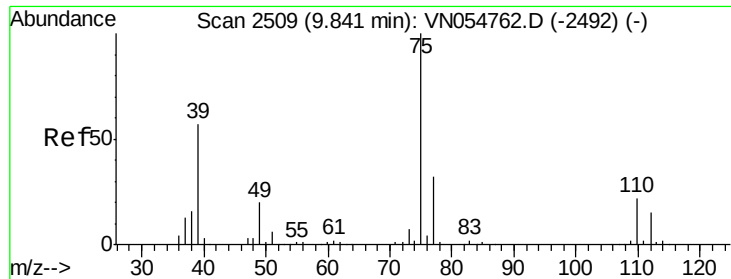
2000

1000

0

Time-->





#54

cis-1,3-Dichloropropene

Concen: 4.866 ug/l

RT: 9.90 min Scan# 2529

Delta R.T. 0.06 min

Lab File: VN054894.D

Acq: 2 Apr 2019 11:53

Instrument :

MSVOA_N

ClientSampleId :

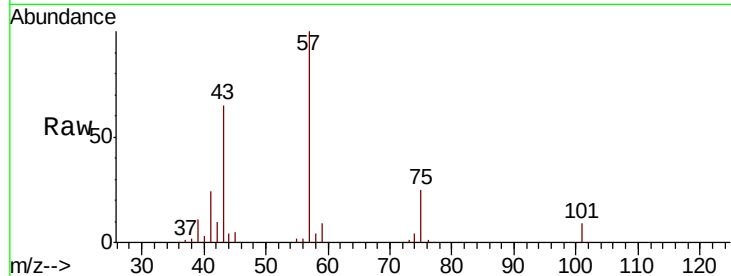
Tot Ion: 75 Resp: 43044

Ion Ratio Lower Upper

75 100

77 0.7 25.4 38.0#

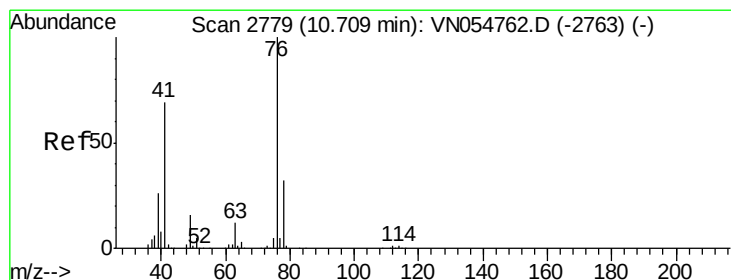
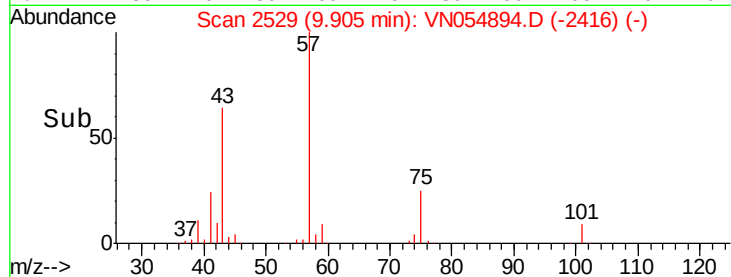
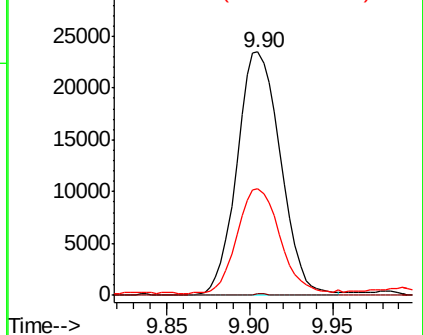
39 43.1 37.2 55.8



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0



#57

1,3-Dichloropropane

Concen: 0.810 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.05 min

Lab File: VN054894.D

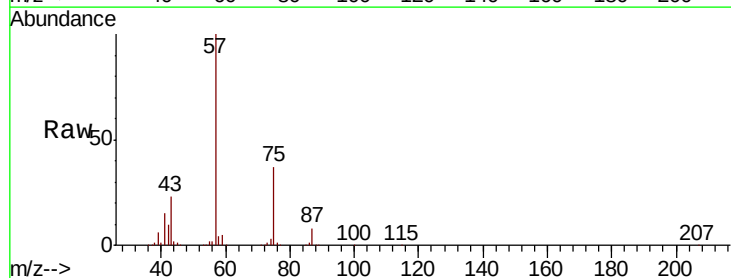
Acq: 2 Apr 2019 11:53

Tgt Ion: 76 Resp: 7279

Ion Ratio Lower Upper

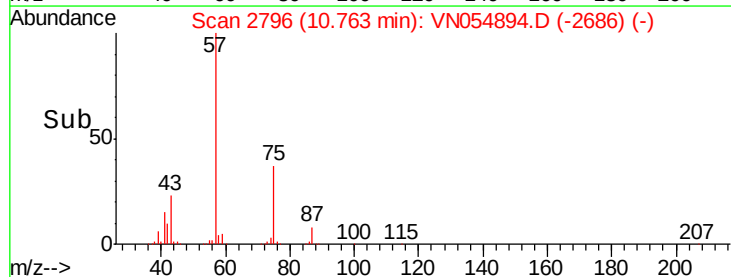
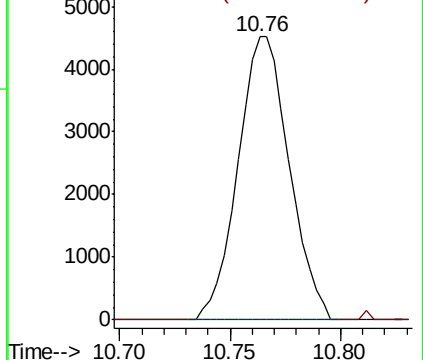
76 100

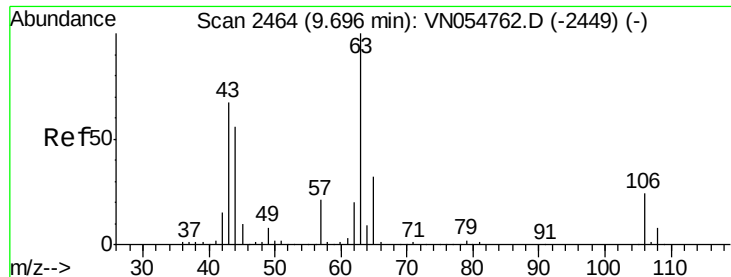
78 0.0 25.7 38.5#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

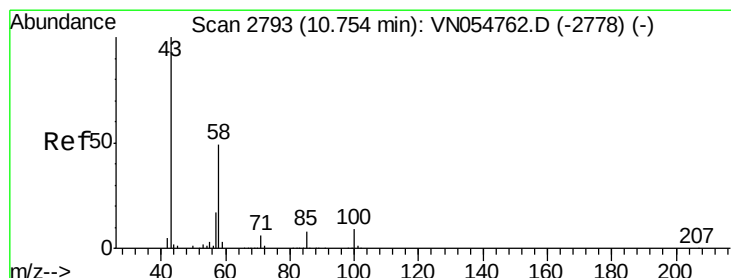
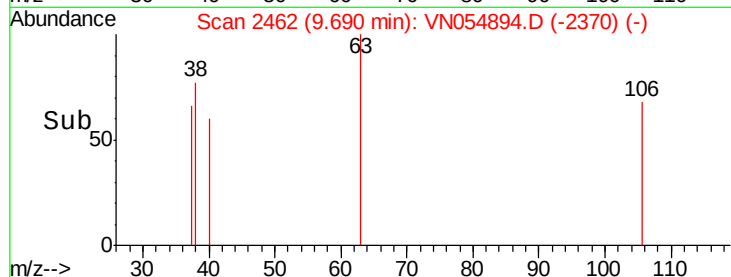
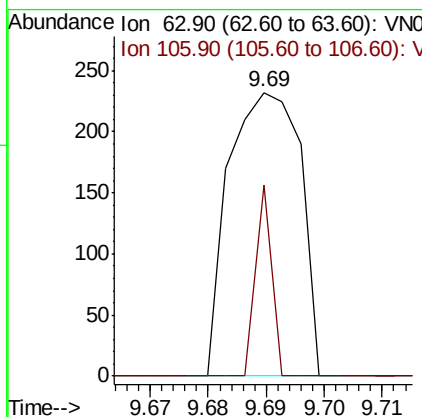
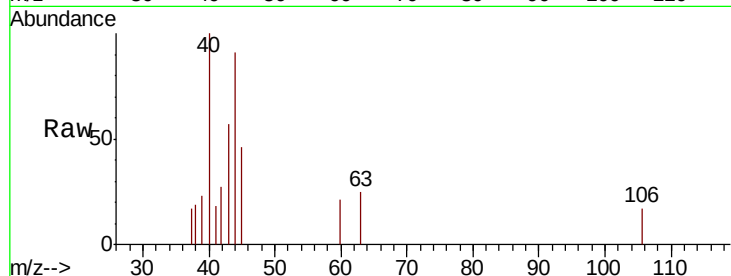




#58
 2-Chloroethyl Vinyl ether
 Concen: 10.419 ug/l
 RT: 9.69 min Scan# 2462
 Delta R.T. -0.01 min
 Lab File: VN054894.D
 Acq: 2 Apr 2019 11:53

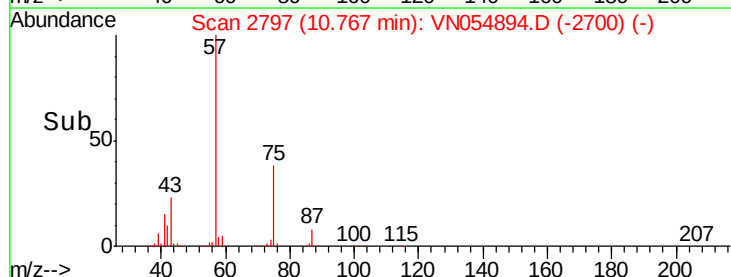
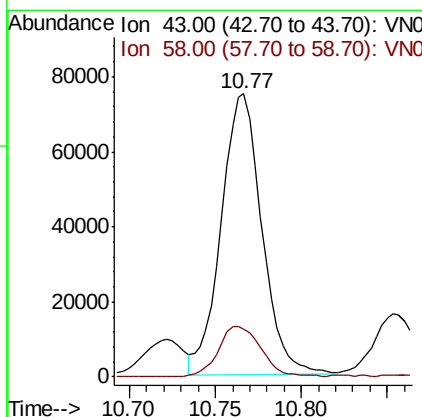
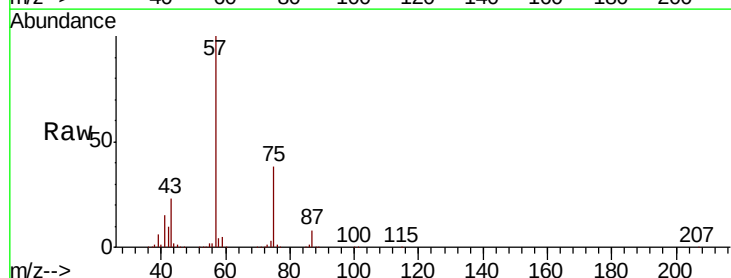
Instrument :
 MSVOA_N
 ClientSampled :

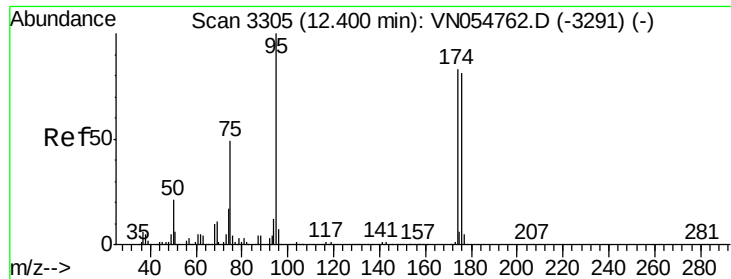
Tot Ion: 63 Resp: 198
 Ion Ratio Lower Upper
 63 100
 106 15.2 24.4 36.6#



#59
 2-Hexanone
 Concen: 34.909 ug/l
 RT: 10.77 min Scan# 2797
 Delta R.T. 0.01 min
 Lab File: VN054894.D
 Acq: 2 Apr 2019 11:53

Tgt Ion: 43 Resp: 123545
 Ion Ratio Lower Upper
 43 100
 58 19.0 28.0 83.9#





#62

4-Bromofluorobenzene

Concen: 44.332 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN054894.D

Acq: 2 Apr 2019 11:53

Instrument :

MSVOA_N

ClientSampled :

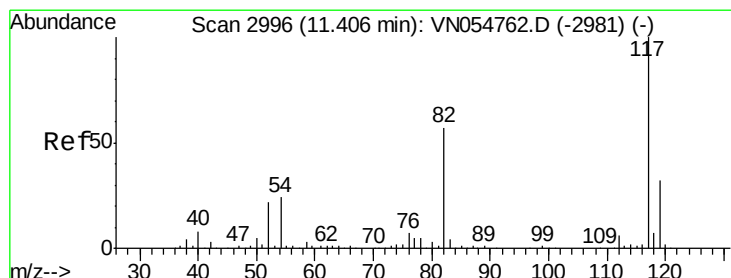
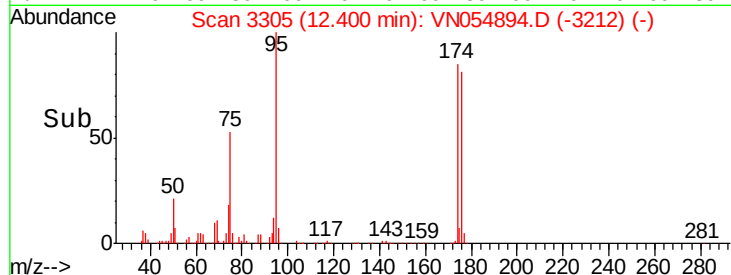
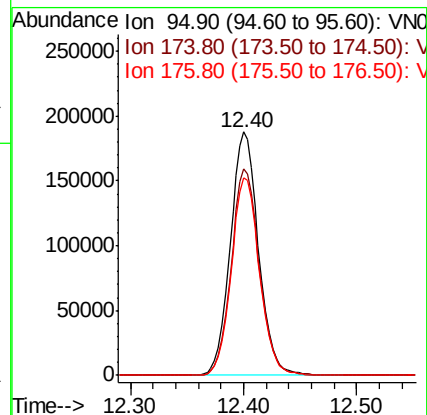
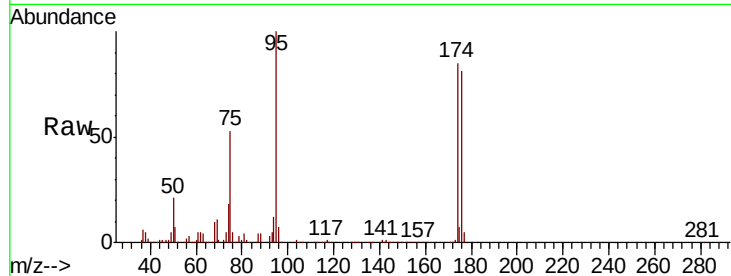
Tot Ion: 95 Resp: 323636

Ion Ratio Lower Upper

95 100

174 84.9 0.0 191.0

176 81.5 0.0 187.4



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN054894.D

Acq: 2 Apr 2019 11:53

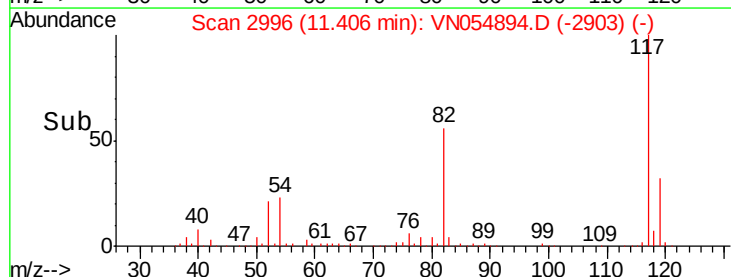
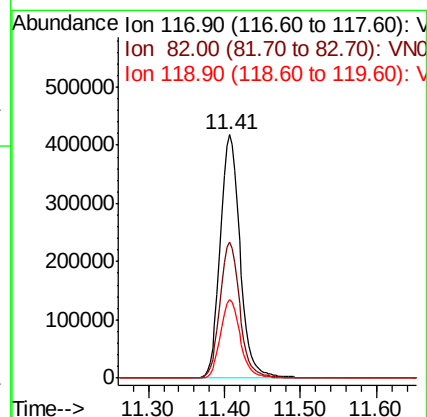
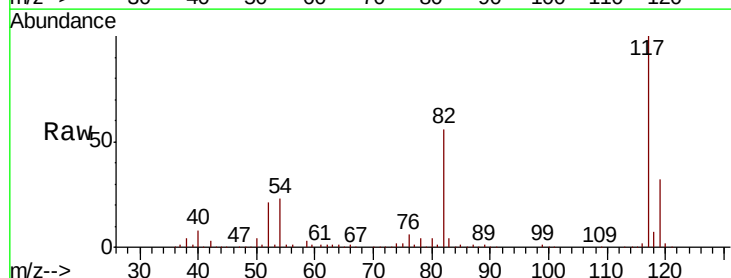
Tgt Ion: 117 Resp: 756488

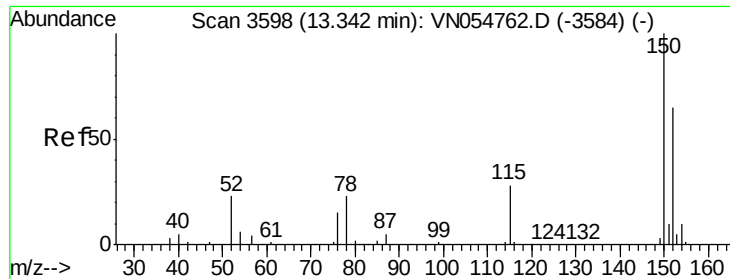
Ion Ratio Lower Upper

117 100

82 55.8 40.0 60.0

119 32.3 25.8 38.6





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. 0.00 min

Lab File: VN054894.D

Acq: 2 Apr 2019 11:53

Instrument :

MSVOA_N

ClientSampled :

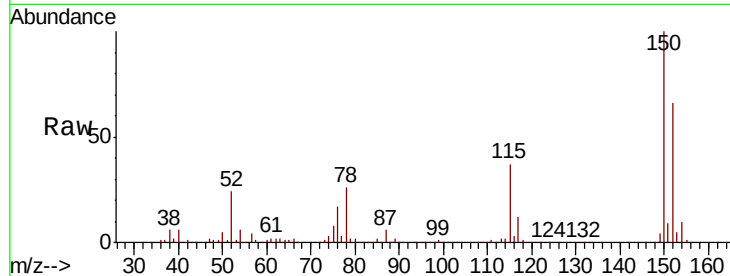
Tot Ion:152 Resp: 255545

Ion Ratio Lower Upper

152 100

115 57.7 27.2 81.6

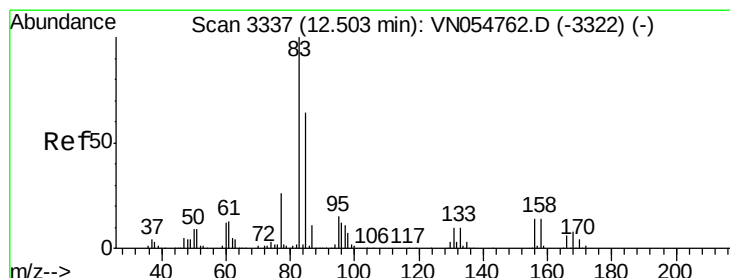
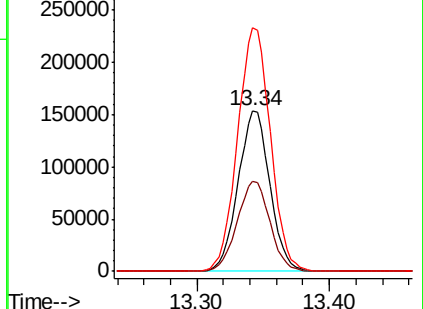
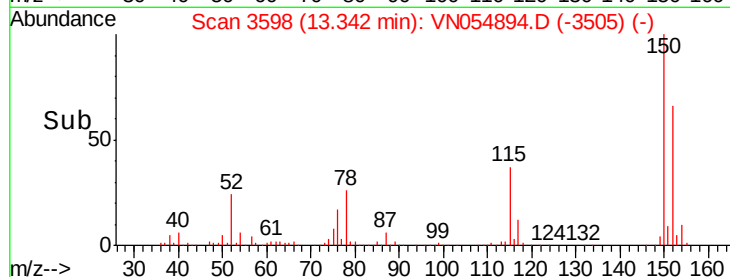
150 156.8 0.0 349.2



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



#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.51 min Scan# 3338

Delta R.T. 0.00 min

Lab File: VN054894.D

Acq: 2 Apr 2019 11:53

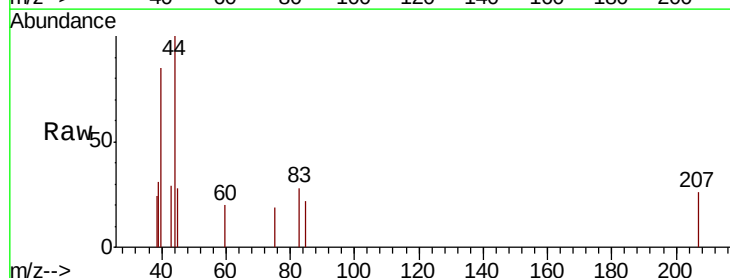
Tgt Ion: 83 Resp: 228

Ion Ratio Lower Upper

83 100

131 0.0 5.8 17.4#

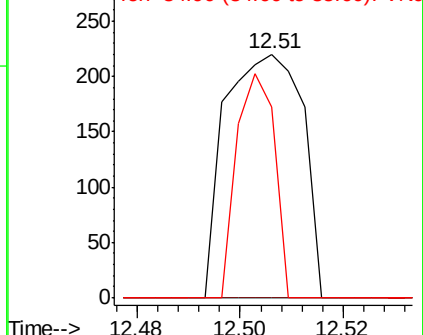
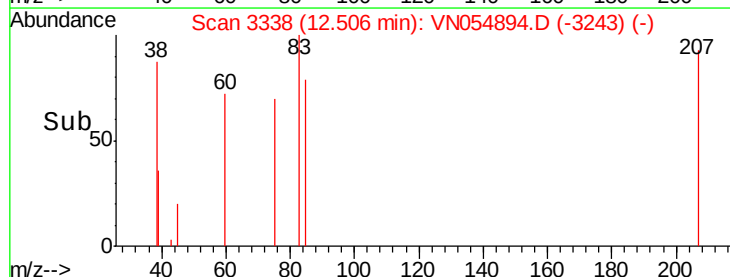
85 45.2 32.2 96.6

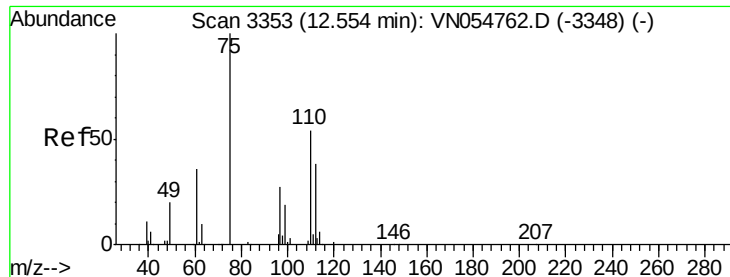


Abundance Ion 82.90 (82.60 to 83.60): V

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): V





#76

1,2,3-Trichloropropane

Concen: 37.851 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN054894.D

Acq: 2 Apr 2019 11:53

Instrument :

MSVOA_N

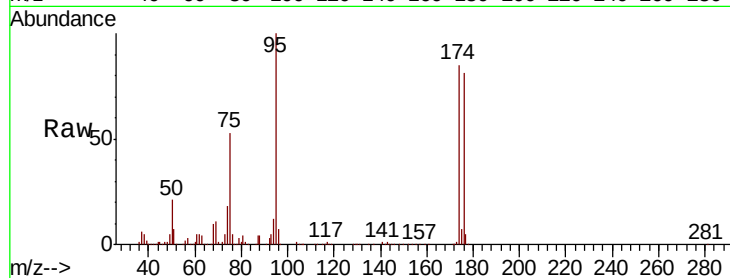
ClientSampled :

Tot Ion: 75 Resp: 168037

Ion Ratio Lower Upper

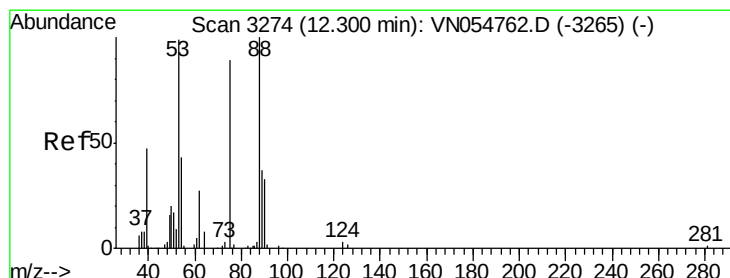
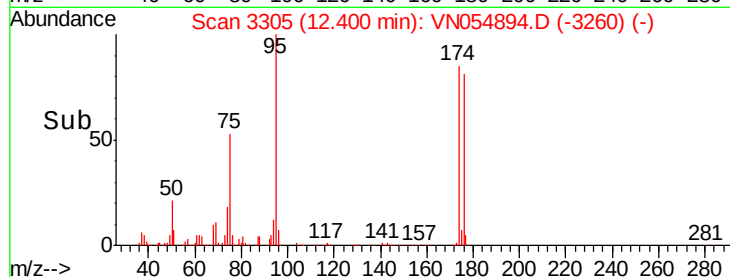
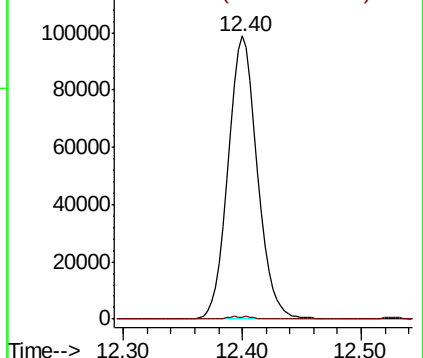
75 100

77 0.4 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0



#81

trans-1,4-Dichloro-2-butene

Concen: 147.232 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN054894.D

Acq: 2 Apr 2019 11:53

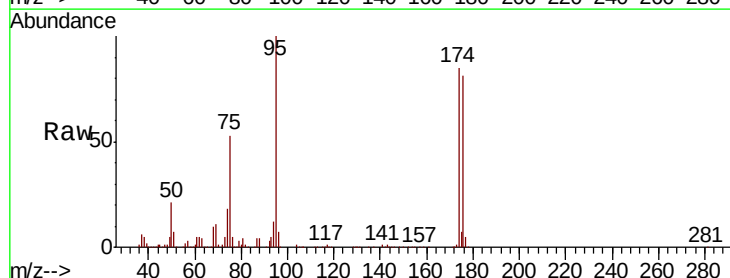
Tgt Ion: 75 Resp: 168037

Ion Ratio Lower Upper

75 100

53 0.0 76.2 114.2#

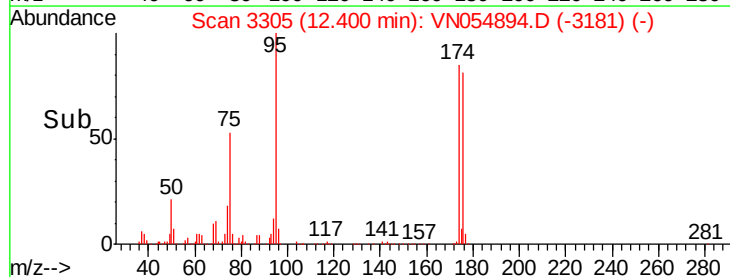
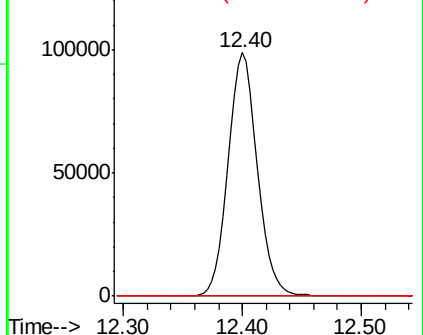
89 0.0 39.2 58.8#

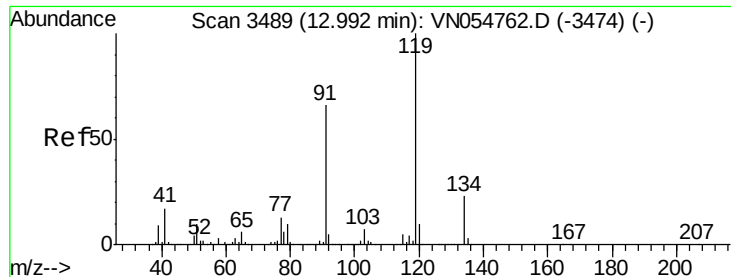


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0

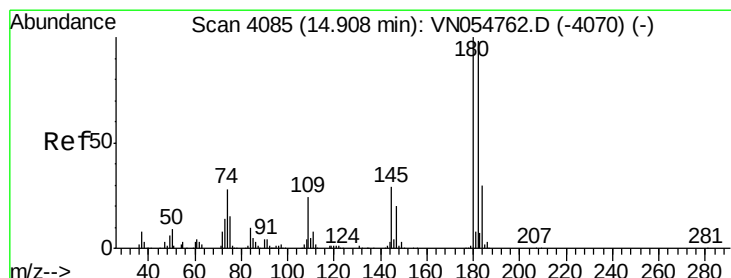
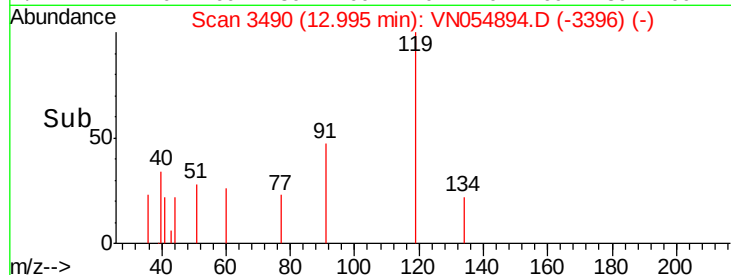
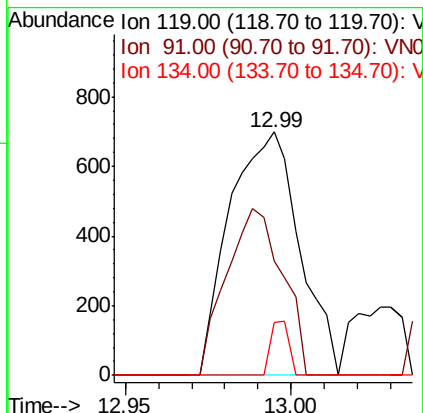
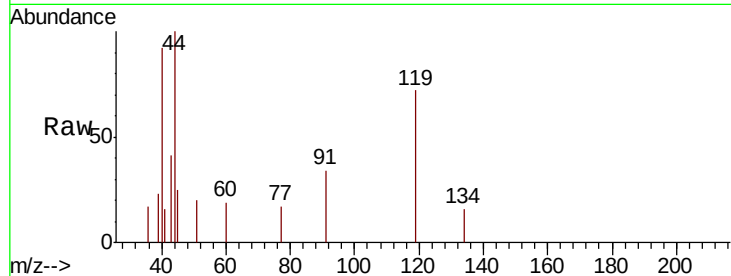




#83
 tert-Butylbenzene
 Concen: Below Cal
 RT: 12.99 min Scan# 3490
 Delta R.T. 0.00 min
 Lab File: VN054894.D
 Acq: 2 Apr 2019 11:53

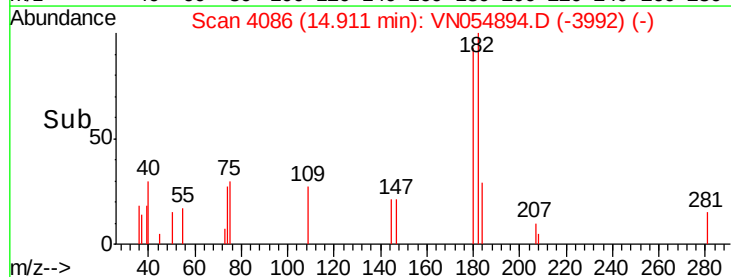
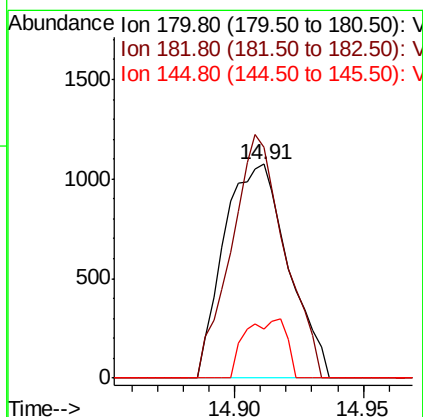
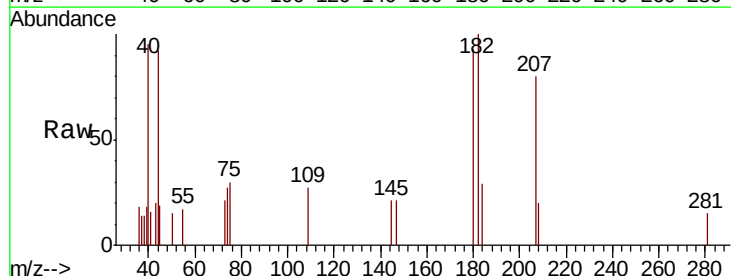
Instrument :
 MSVOA_N
 ClientSampled :

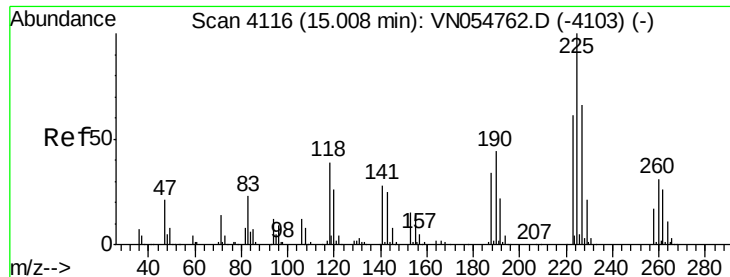
Tot Ion:119 Resp: 1025
 Ion Ratio Lower Upper
 119 100
 91 54.8 30.9 92.8
 134 5.8 13.2 39.6#



#93
 1,2,4-Trichlorobenzene
 Concen: 0.453 ug/l
 RT: 14.91 min Scan# 4086
 Delta R.T. 0.00 min
 Lab File: VN054894.D
 Acq: 2 Apr 2019 11:53

Tgt Ion:180 Resp: 1861
 Ion Ratio Lower Upper
 180 100
 182 94.1 48.0 144.2
 145 17.8 14.2 42.8





#94

Hexachlorobutadiene

Concen: Below Cal

RT: 15.00 min Scan# 4115

Delta R.T. -0.00 min

Lab File: VN054894.D

Acq: 2 Apr 2019 11:53

Instrument :

MSVOA_N

ClientSampleId :

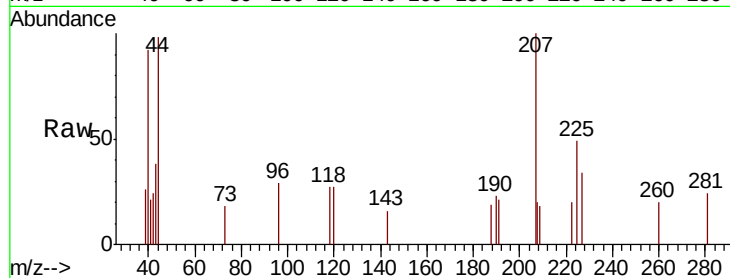
Tot Ion:225 Resp: 651

Ion Ratio Lower Upper

225 100

223 41.0 31.1 93.5

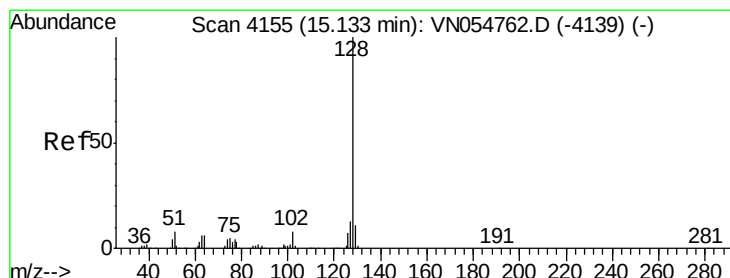
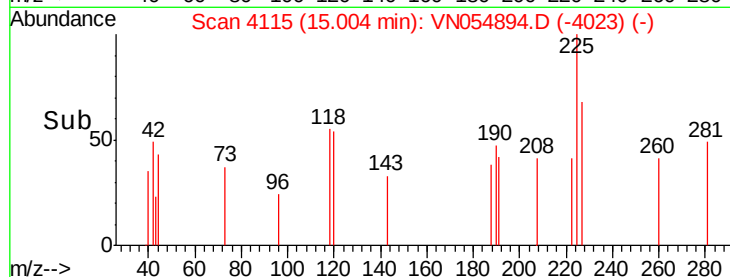
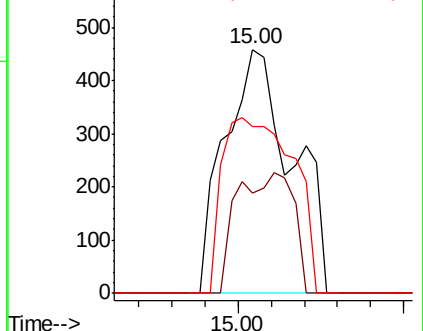
227 75.3 31.9 95.9



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: 0.770 ug/l

RT: 15.13 min Scan# 4154

Delta R.T. -0.00 min

Lab File: VN054894.D

Acq: 2 Apr 2019 11:53

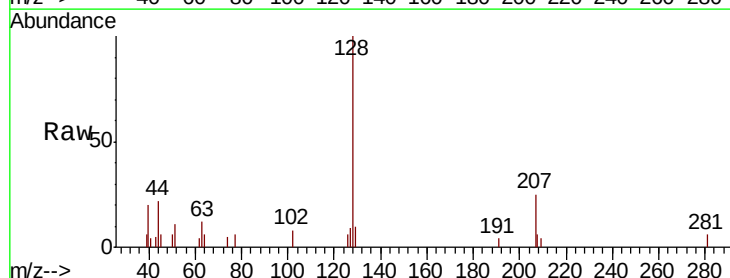
Tgt Ion:128 Resp: 7090

Ion Ratio Lower Upper

128 100

127 11.4 10.1 15.1

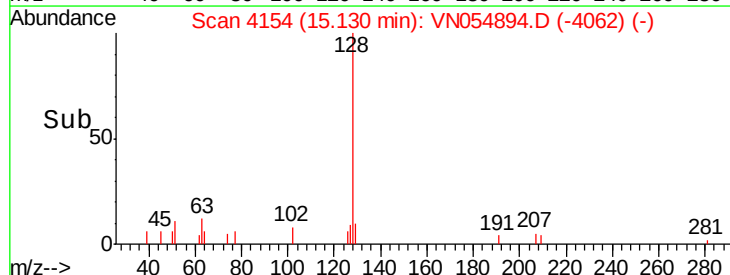
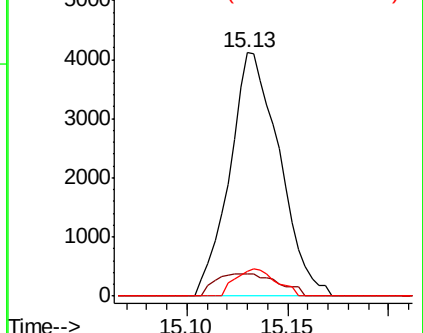
129 9.2 8.7 13.1

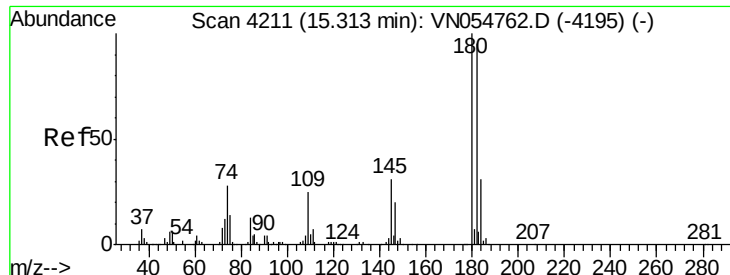


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

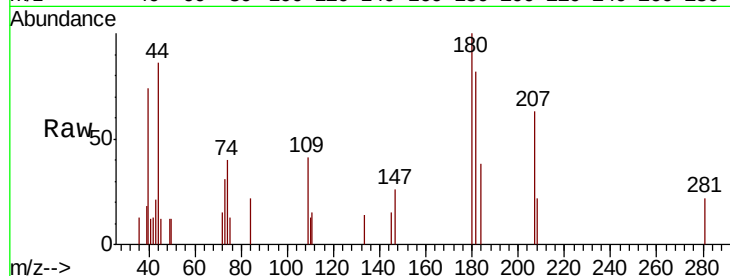




#96
 1,2,3-Trichlorobenzene
 Concen: 0.567 ug/l
 RT: 15.31 min Scan# 4210
 Delta R.T. -0.00 min
 Lab File: VN054894.D
 Acq: 2 Apr 2019 11:53

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion:180 Resp: 2350
 Ion Ratio Lower Upper
 180 100
 182 85.3 47.5 142.6
 145 12.1 14.8 44.3#



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

