

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN032619\
 Data File : VN054700.D
 Acq On : 26 Mar 2019 15:51
 Operator : JC/SP
 Sample : K1693-16
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Mar 27 04:08:11 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N032019W.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 22 02:09:07 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	546925	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	877757	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	751651	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	269072	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	358366	52.68	ug/l	0.00
Spiked Amount			Recovery	=	105.36%	
35) Dibromofluoromethane	7.59	113	279512	49.43	ug/l	0.00
Spiked Amount			Recovery	=	98.86%	
50) Toluene-d8	10.09	98	1057524	49.74	ug/l	0.00
Spiked Amount			Recovery	=	99.48%	
62) 4-Bromofluorobenzene	12.40	95	316908	43.81	ug/l	0.00
Spiked Amount			Recovery	=	87.62%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
13) Acrolein	3.61	56	301	0.530	ug/l #	68
16) Acetone	3.82	43	10700	5.232	ug/l #	86
18) Methyl Acetate	4.33	43	1852	0.406	ug/l #	55
20) Methylene Chloride	4.54	84	20883	3.464	ug/l #	88
25) 2-Butanone	6.86	43	1222	0.466	ug/l #	46
29) Tetrahydrofuran	7.24	42	1128	0.663	ug/l #	43
30) Chloroform	7.37	83	4535	0.440	ug/l	85
31) Cyclohexane	7.66	56	11598	Below Cal	#	7
36) 1,1-Dichloropropene	7.67	75	41999	5.117	ug/l #	45
38) Carbon Tetrachloride	7.66	117	50957	6.389	ug/l #	16
43) Isopropyl Acetate	8.17	43	15537	1.576	ug/l #	89
45) 1,2-Dichloropropane	9.27	63	1315	0.209	ug/l #	43
48) Methyl methacrylate	9.18	41	7154	1.337	ug/l #	11
51) 4-Methyl-2-Pentanone	10.02	43	9038	1.654	ug/l #	36
53) t-1,3-Dichloropropene	10.11	75	170	2.252	ug/l #	1
54) cis-1,3-Dichloropropene	9.90	75	55341	6.186	ug/l #	70
57) 1,3-Dichloropropane	10.76	76	10140	1.124	ug/l #	43
59) 2-Hexanone	10.77	43	176484	49.454	ug/l #	47
71) Bromoform	12.38	173	322	2.302	ug/l #	28
74) N-amyl acetate	11.88	43	17988	2.885	ug/l #	50
76) 1,2,3-Trichloropropane	12.40	75	168100	39.370	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	5369	0.302	ug/l	88
81) trans-1,4-Dichloro-2-buten	12.40	75	168100	130.284	ug/l #	11
95) Naphthalene	15.14	128	2180	0.227	ug/l #	83

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.00 min

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Instrument :

MSVOA_N

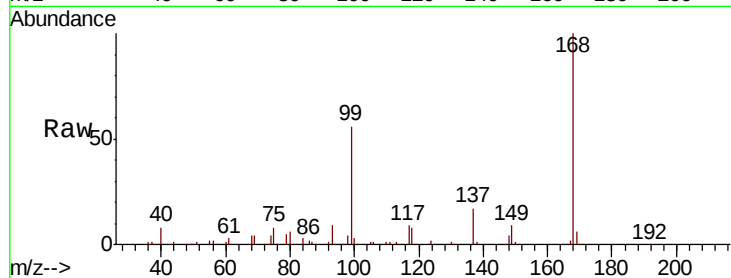
ClientSampleId :

Tot Ion:168 Resp: 546925

Ion Ratio Lower Upper

168 100

99 55.8 37.1 55.7#



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.66

200000

150000

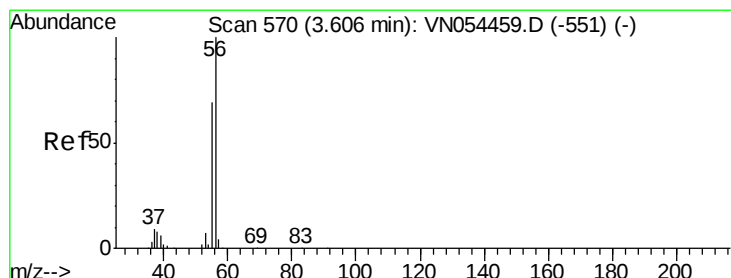
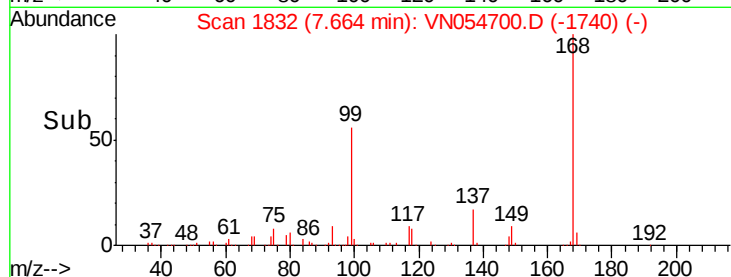
100000

50000

0

7.60 7.70 7.80

Time-->



#13

Acrolein

Concen: 0.530 ug/l

RT: 3.61 min Scan# 572

Delta R.T. 0.01 min

Lab File: VN054700.D

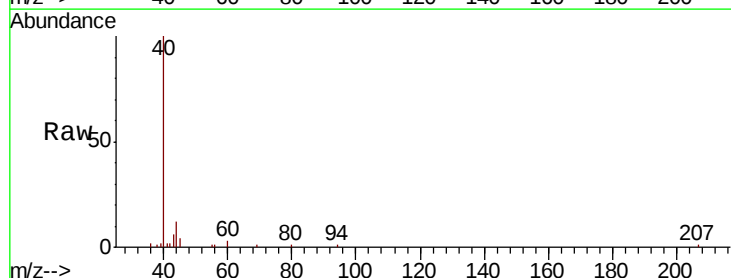
Acq: 26 Mar 2019 15:51

Tgt Ion: 56 Resp: 301

Ion Ratio Lower Upper

56 100

55 44.9 56.7 85.1#



Abundance Ion 56.00 (55.70 to 56.70): VN

Ion 55.00 (54.70 to 55.70): VN

3.61

250

200

150

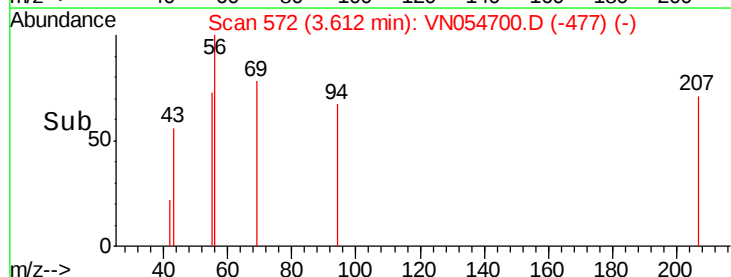
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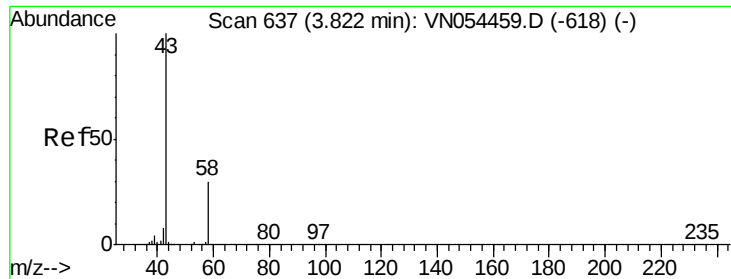
50

0

3.60 3.62 3.64

Time-->

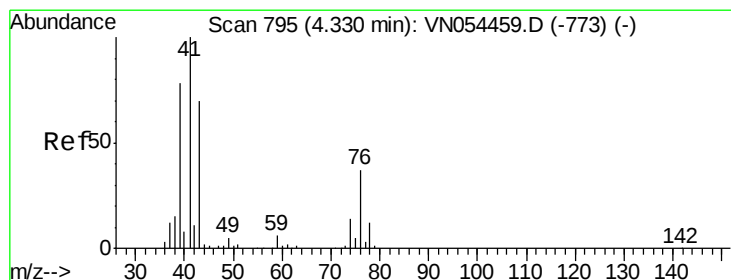
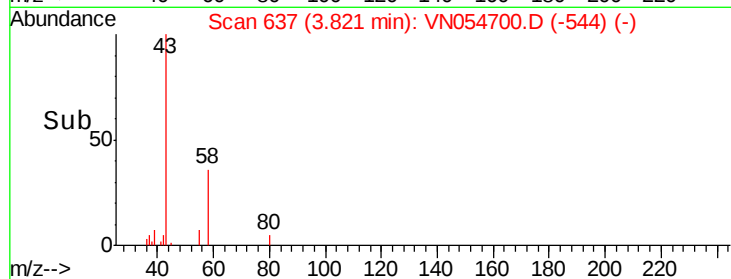
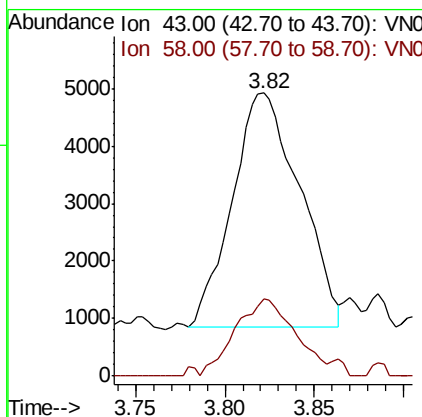
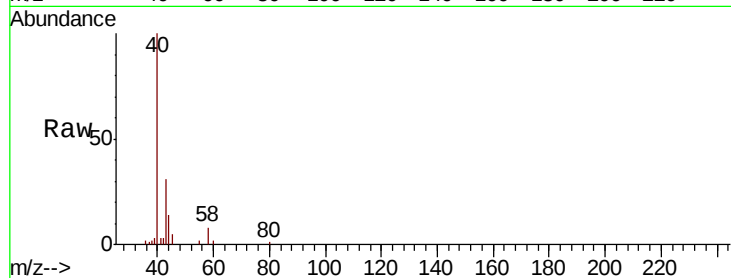




#16
Acetone
Concen: 5.232 ug/l
RT: 3.82 min Scan# 637
Delta R.T. -0.00 min
Lab File: VN054700.D
Acq: 26 Mar 2019 15:51

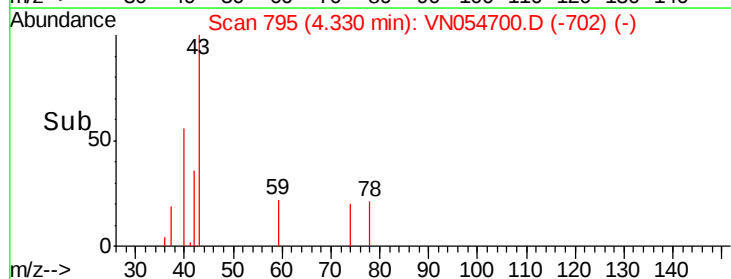
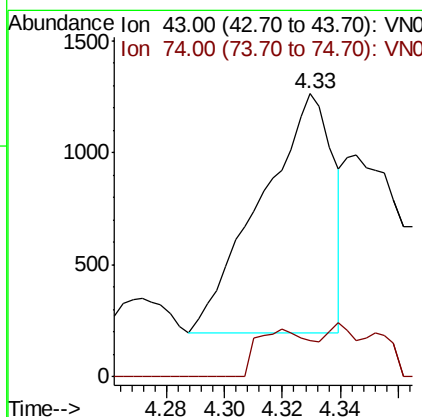
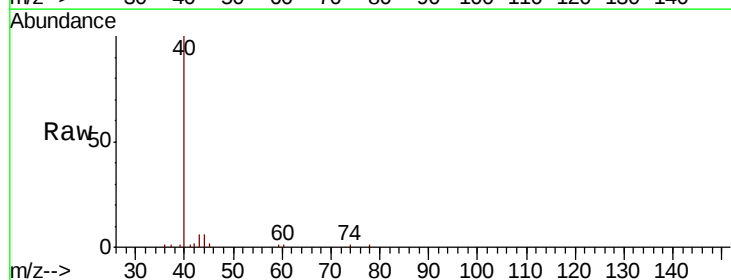
Instrument :
MSVOA_N
ClientSampled :

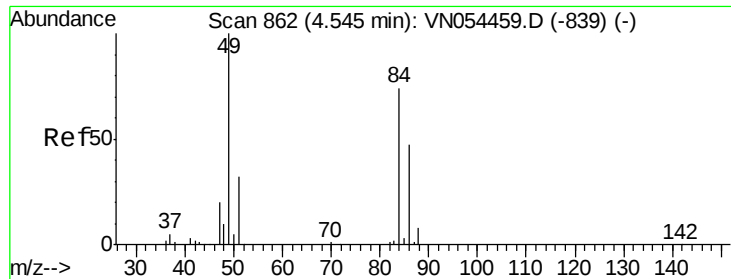
Tot Ion: 43 Resp: 10700
Ion Ratio Lower Upper
43 100
58 28.9 29.9 44.9#



#18
Methyl Acetate
Concen: 0.406 ug/l
RT: 4.33 min Scan# 795
Delta R.T. -0.00 min
Lab File: VN054700.D
Acq: 26 Mar 2019 15:51

Tgt Ion: 43 Resp: 1852
Ion Ratio Lower Upper
43 100
74 2.9 20.8 31.2#

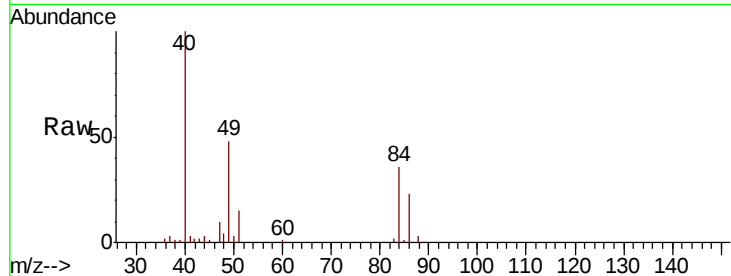




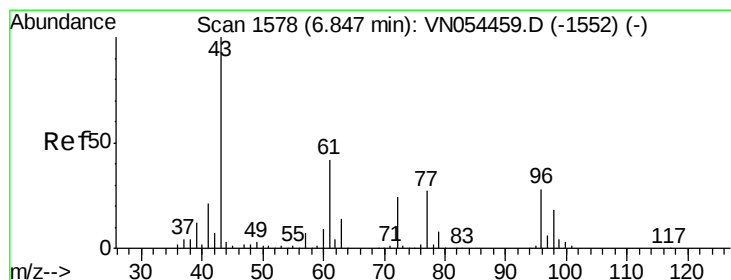
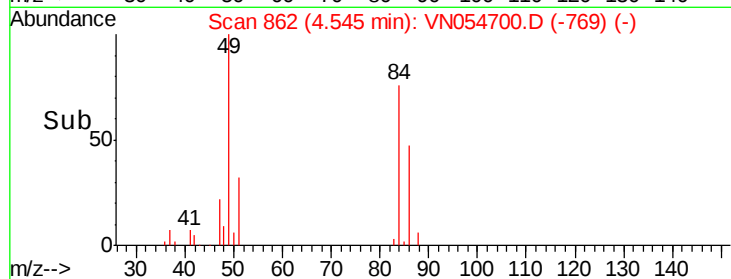
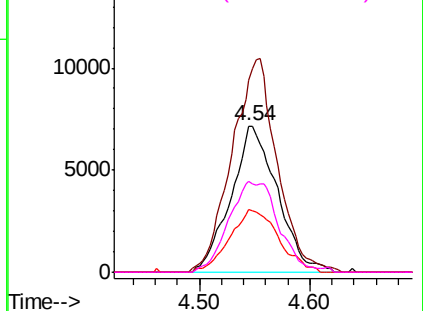
#20
Methvlene Chloride
Concen: 3.464 ug/l
RT: 4.54 min Scan# 862
Delta R.T. -0.00 min
Lab File: VN054700.D
Acq: 26 Mar 2019 15:51

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 84 Resp: 20883
Ion Ratio Lower Upper
84 100
49 131.1 89.7 134.5
51 42.5 28.2 42.4#
86 62.2 50.8 76.2

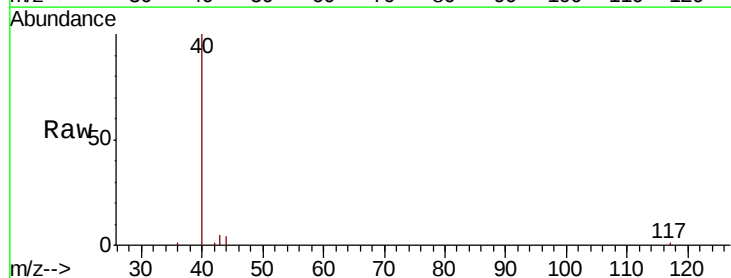


Abundance Ion 83.90 (83.60 to 84.60): VNC
Ion 48.90 (48.60 to 49.60): VNC
Ion 50.90 (50.60 to 51.60): VNC
Ion 85.90 (85.60 to 86.60): VNC

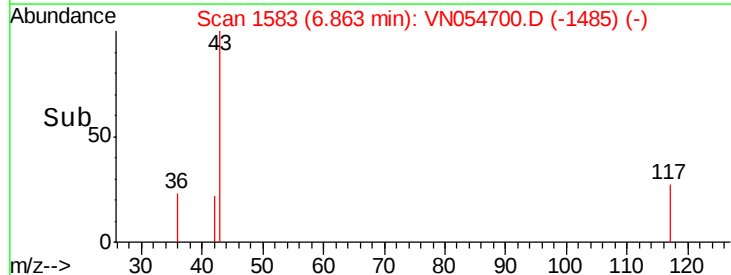
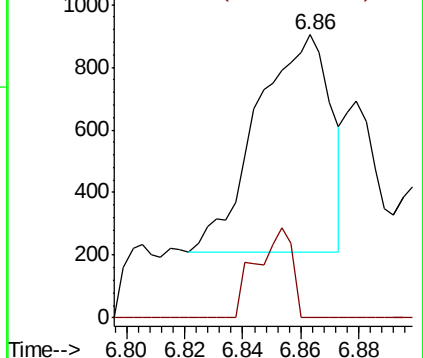


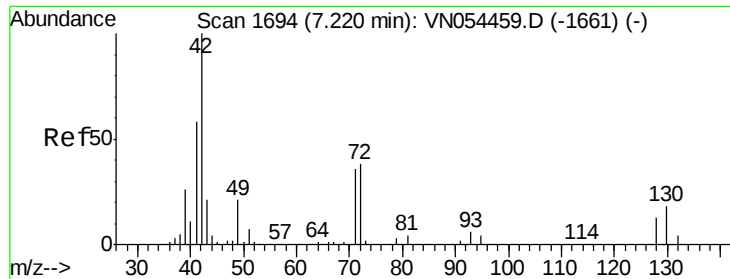
#25
2-Butanone
Concen: 0.466 ug/l
RT: 6.86 min Scan# 1583
Delta R.T. 0.02 min
Lab File: VN054700.D
Acq: 26 Mar 2019 15:51

Tgt Ion: 43 Resp: 1222
Ion Ratio Lower Upper
43 100
72 0.0 23.0 34.6#



Abundance Ion 43.00 (42.70 to 43.70): VNC
Ion 72.00 (71.70 to 72.70): VNC

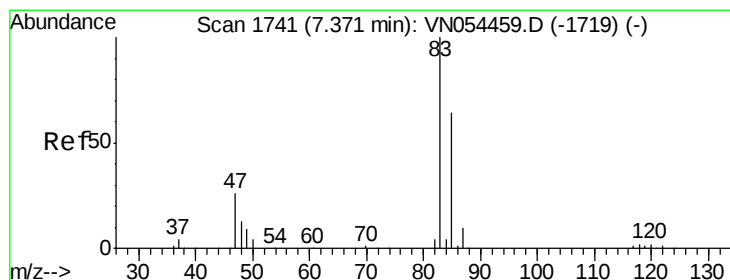
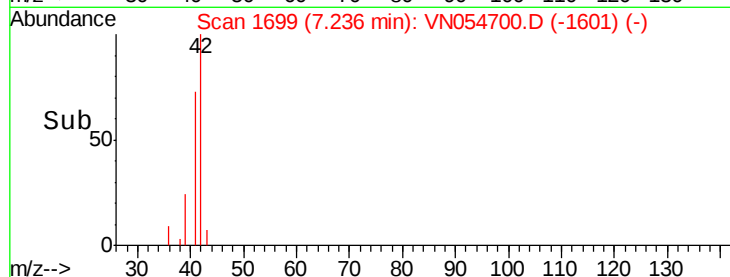
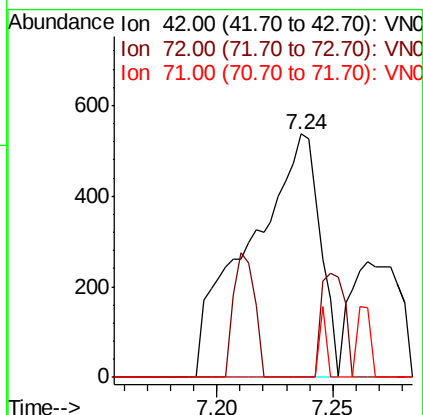
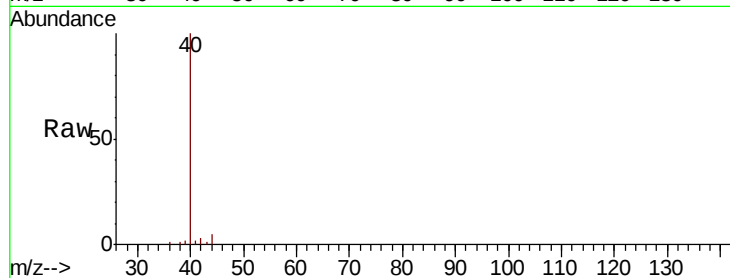




#29
Tetrahydrofuran
Concen: 0.663 ug/l
RT: 7.24 min Scan# 1699
Delta R.T. 0.02 min
Lab File: VN054700.D
Acq: 26 Mar 2019 15:51

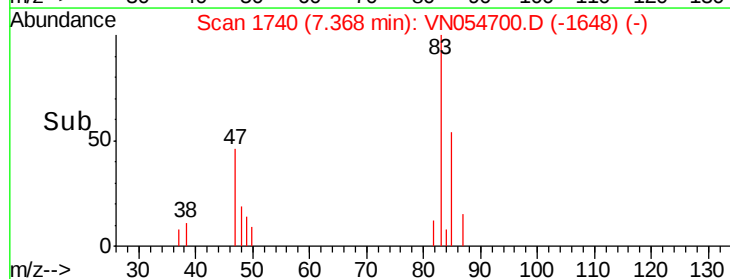
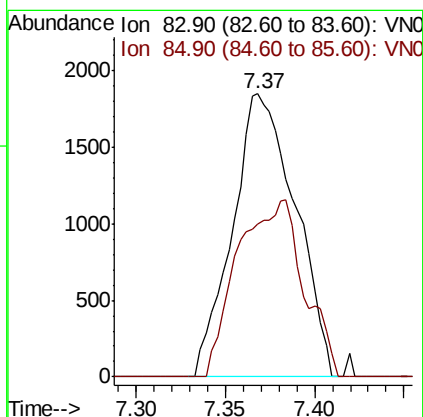
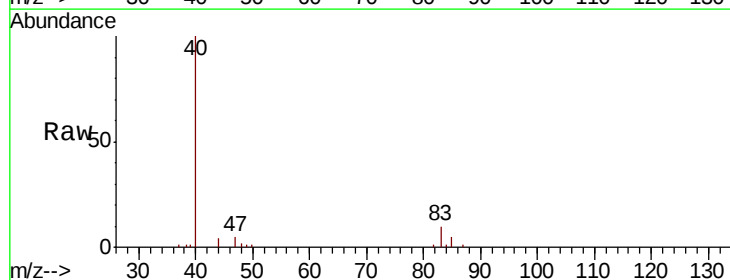
Instrument :
MSVOA_N
ClientSampled :

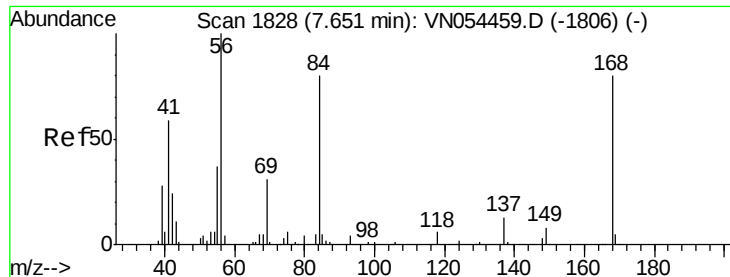
Tot Ion: 42 Resp: 1128
Ion Ratio Lower Upper
42 100
72 14.1 37.8 56.6#
71 2.7 36.2 54.2#



#30
Chloroform
Concen: 0.440 ug/l
RT: 7.37 min Scan# 1740
Delta R.T. -0.00 min
Lab File: VN054700.D
Acq: 26 Mar 2019 15:51

Tgt Ion: 83 Resp: 4535
Ion Ratio Lower Upper
83 100
85 53.8 52.2 78.4

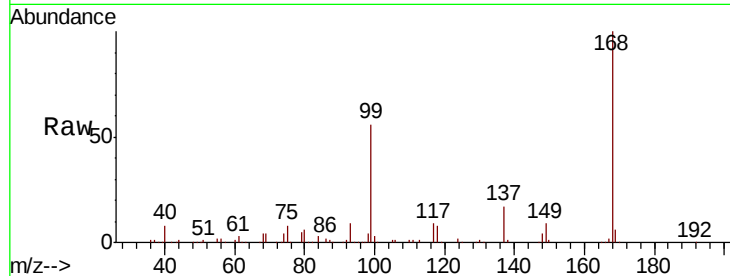




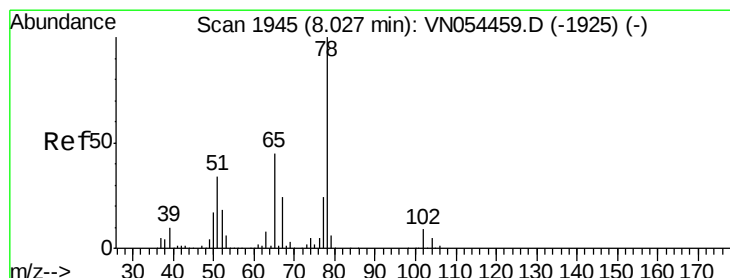
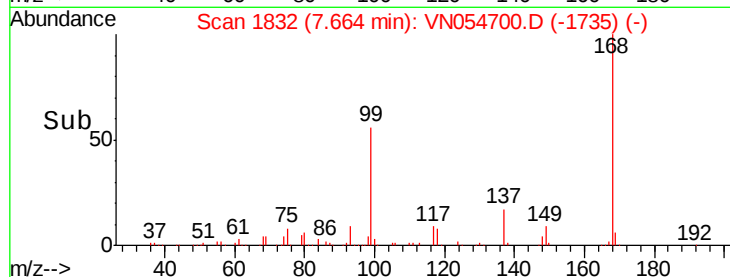
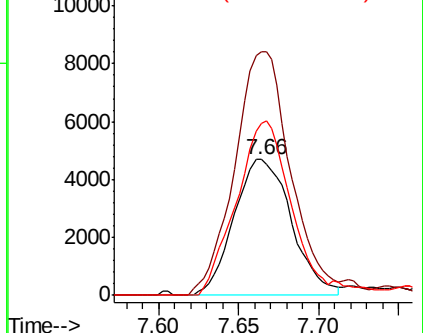
#31
Cyclohexane
Concen: Below Cal
RT: 7.66 min Scan# 1832
Delta R.T. 0.01 min
Lab File: VN054700.D
Acq: 26 Mar 2019 15:51

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 56 Resp: 11598
Ion Ratio Lower Upper
56 100
69 179.1 27.8 41.6#
84 126.8 74.6 111.8#

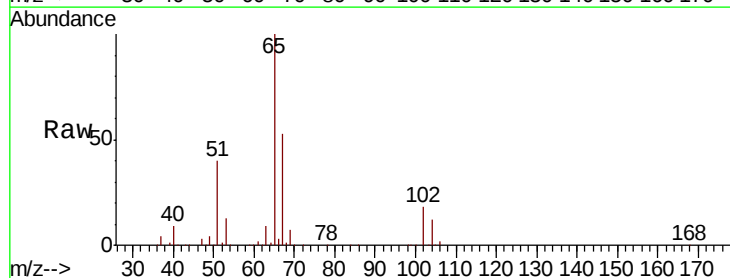


Abundance Ion 56.00 (55.70 to 56.70): VNO
Ion 69.00 (68.70 to 69.70): VNO
Ion 84.00 (83.70 to 84.70): VNO

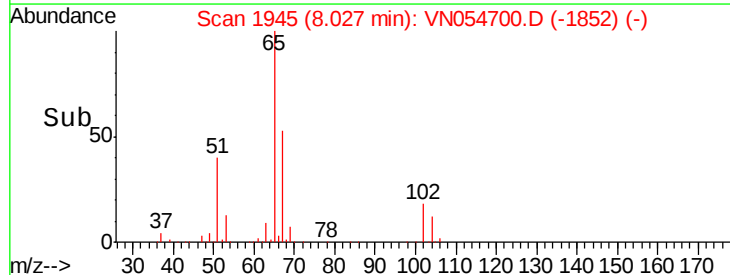
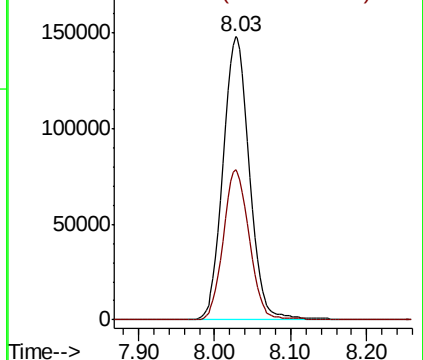


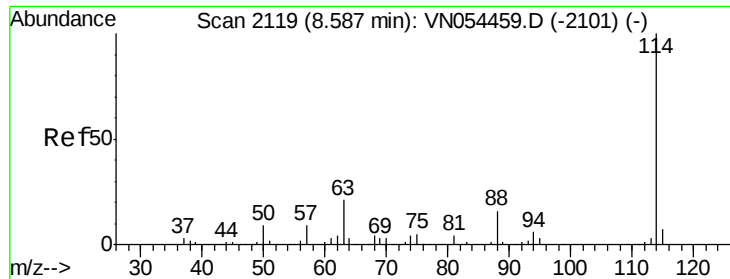
#33
1,2-Dichloroethane-d4
Concen: 52.679 ug/l
RT: 8.03 min Scan# 1945
Delta R.T. -0.00 min
Lab File: VN054700.D
Acq: 26 Mar 2019 15:51

Tgt Ion: 65 Resp: 358366
Ion Ratio Lower Upper
65 100
67 51.9 0.0 104.6



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

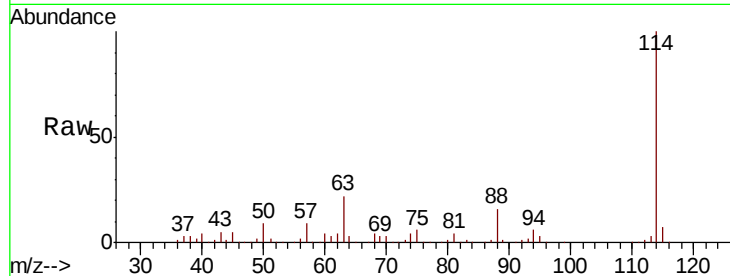




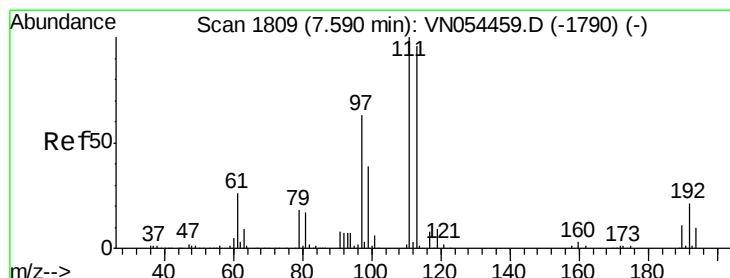
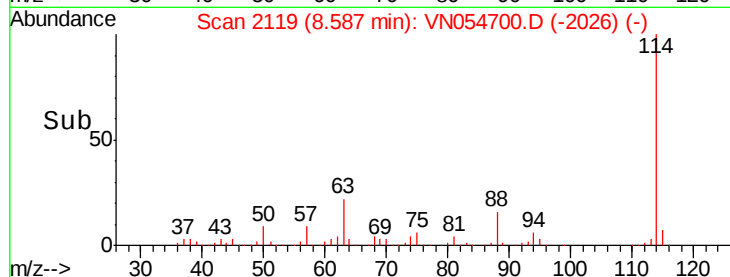
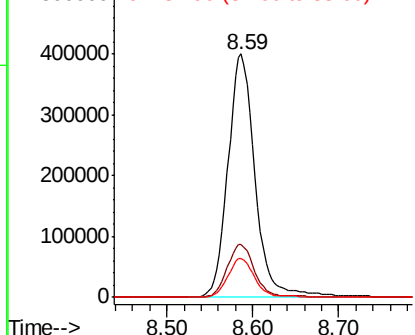
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. -0.00 min
 Lab File: VN054700.D
 Acq: 26 Mar 2019 15:51

Instrument :
 MSVOA_N
 ClientSampled :

Tot Ion:114 Resp: 877757
 Ion Ratio Lower Upper
 114 100
 63 21.8 0.0 35.2
 88 16.1 0.0 30.2

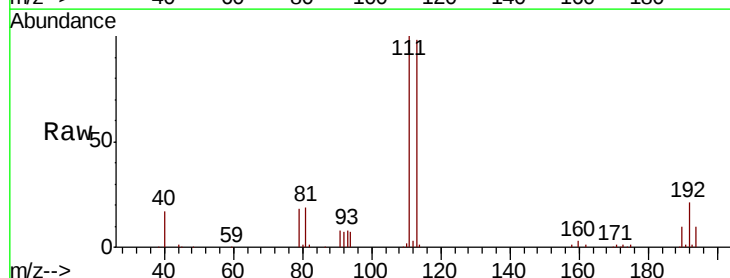


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

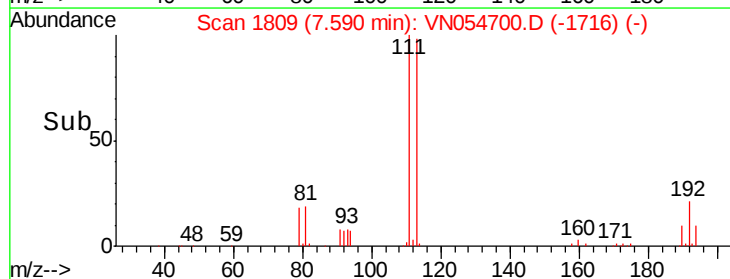
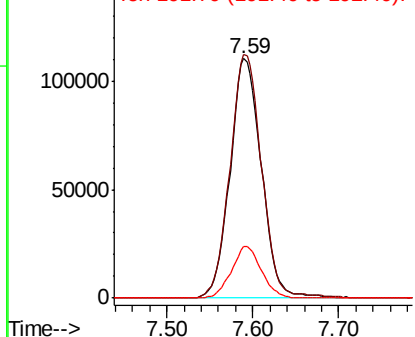


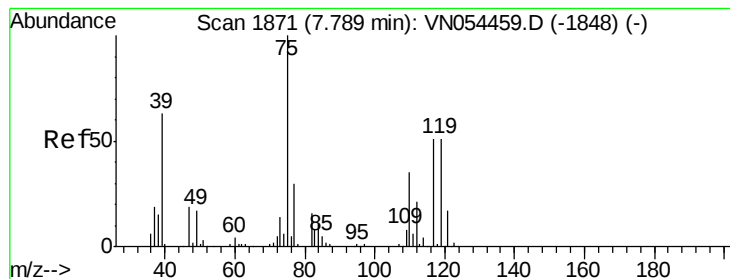
#35
 Dibromofluoromethane
 Concen: 49.428 ug/l
 RT: 7.59 min Scan# 1809
 Delta R.T. -0.00 min
 Lab File: VN054700.D
 Acq: 26 Mar 2019 15:51

Tgt Ion:113 Resp: 279512
 Ion Ratio Lower Upper
 113 100
 111 102.7 82.2 123.4
 192 20.8 19.2 28.8



Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 5.117 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.12 min

Lab File: VN054700.D

Acq: 26 Mar 2019 15:51

Instrument :

MSVOA_N

ClientSampleId :

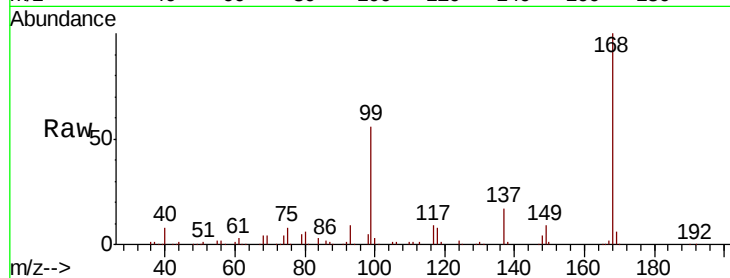
Tot Ion: 75 Resp: 41999

Ion Ratio Lower Upper

75 100

110 5.6 19.1 57.5#

77 0.0 25.0 37.4#

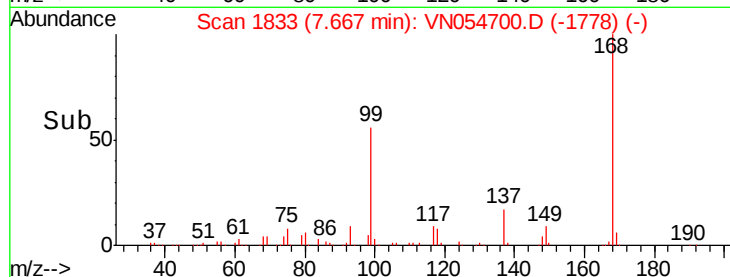


Abundance Ion 74.90 (74.60 to 75.60): VN054459.D (-1848) (-)

Ion 109.90 (109.60 to 110.60): VN054459.D (-1848) (-)

Ion 76.90 (76.60 to 77.60): VN054459.D (-1848) (-)

Time-->

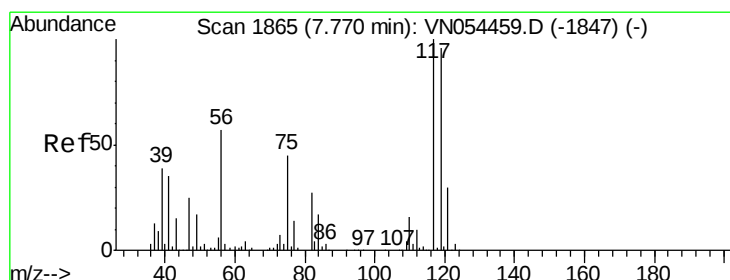


Abundance Ion 74.90 (74.60 to 75.60): VN054700.D (-1778) (-)

Ion 109.90 (109.60 to 110.60): VN054700.D (-1778) (-)

Ion 76.90 (76.60 to 77.60): VN054700.D (-1778) (-)

Time-->



#38

Carbon Tetrachloride

Concen: 6.389 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.11 min

Lab File: VN054700.D

Acq: 26 Mar 2019 15:51

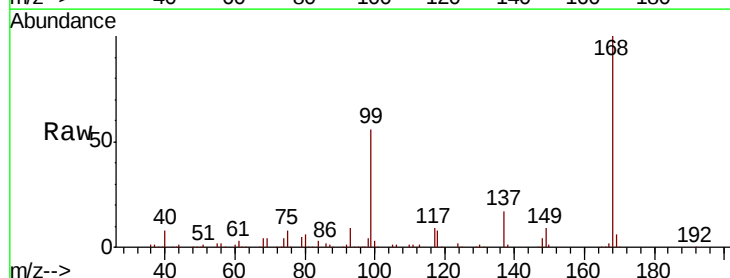
Tgt Ion: 117 Resp: 50957

Ion Ratio Lower Upper

117 100

119 5.0 76.3 114.5#

121 0.0 24.6 36.8#

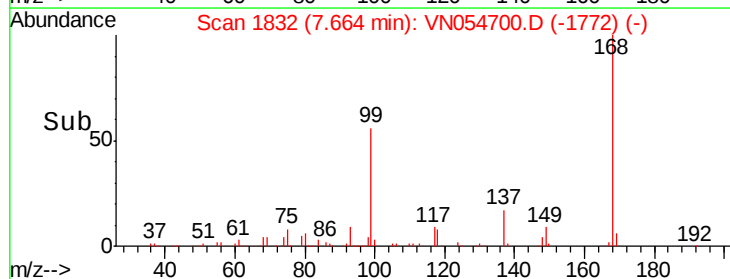


Abundance Ion 116.80 (116.50 to 117.50): VN054459.D (-1847) (-)

Ion 118.80 (118.50 to 119.50): VN054459.D (-1847) (-)

Ion 120.80 (120.50 to 121.50): VN054459.D (-1847) (-)

Time-->

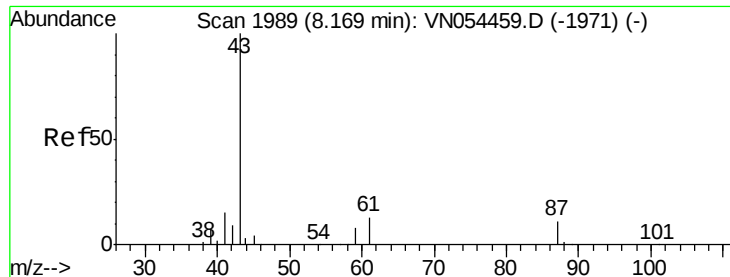


Abundance Ion 116.80 (116.50 to 117.50): VN054700.D (-1772) (-)

Ion 118.80 (118.50 to 119.50): VN054700.D (-1772) (-)

Ion 120.80 (120.50 to 121.50): VN054700.D (-1772) (-)

Time-->



#43

Isopropyl Acetate

Concen: 1.576 ug/l

RT: 8.17 min Scan# 1989

Delta R.T. -0.00 min

Lab File: VN054700.D

Acq: 26 Mar 2019 15:51

Instrument :

MSVOA_N

ClientSampleId :

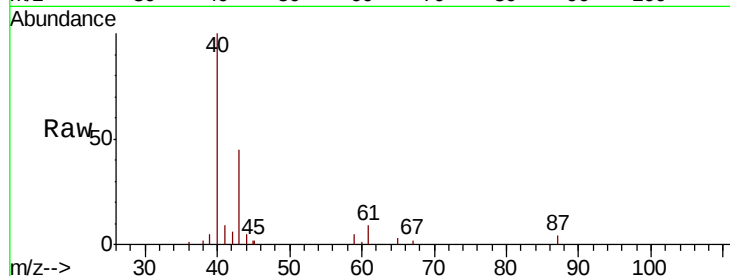
Tot Ion: 43 Resp: 15537

Ion Ratio Lower Upper

43 100

61 18.7 15.8 23.8

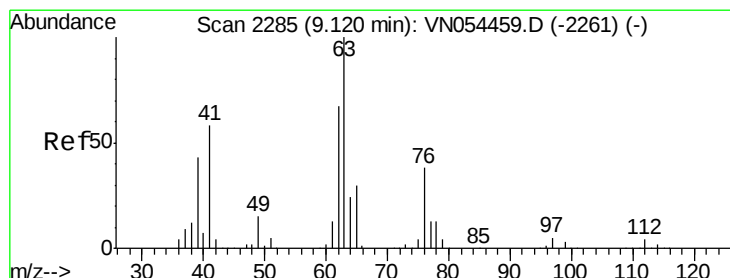
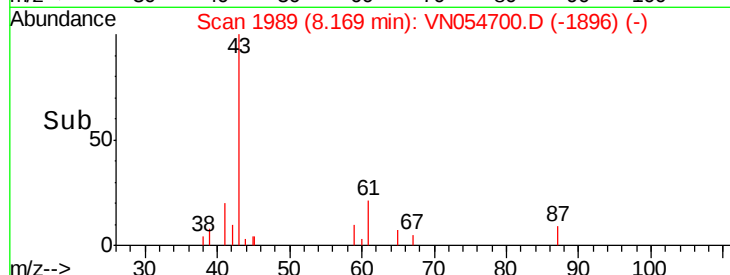
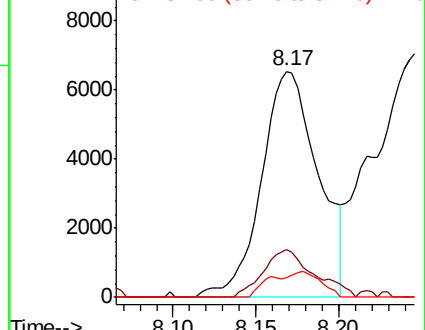
87 5.9 12.0 18.0#



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



#45

1,2-Dichloropropane

Concen: 0.209 ug/l

RT: 9.27 min Scan# 2332

Delta R.T. 0.15 min

Lab File: VN054700.D

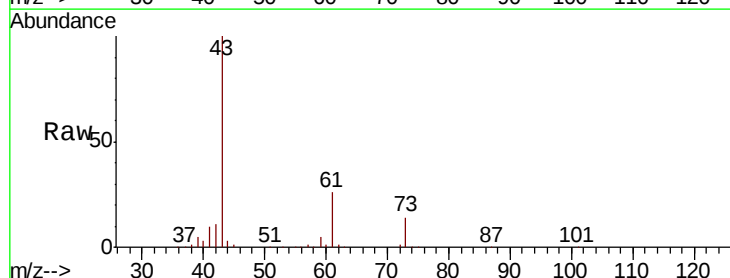
Acq: 26 Mar 2019 15:51

Tgt Ion: 63 Resp: 1315

Ion Ratio Lower Upper

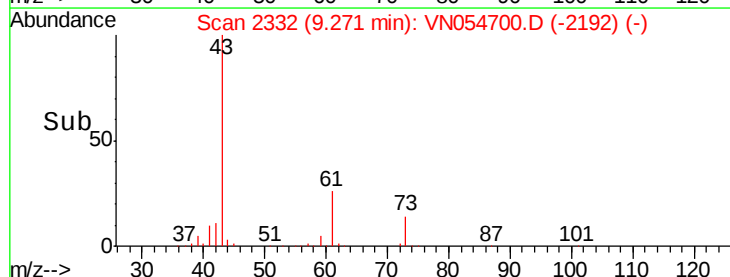
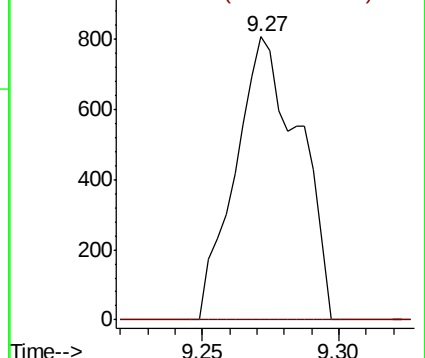
63 100

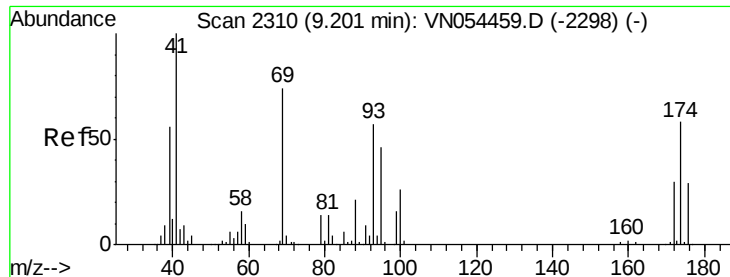
65 0.0 25.0 37.6#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0

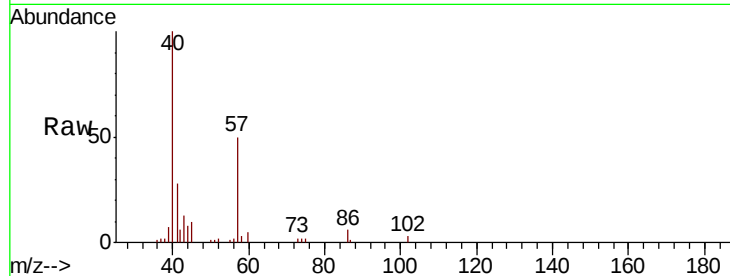




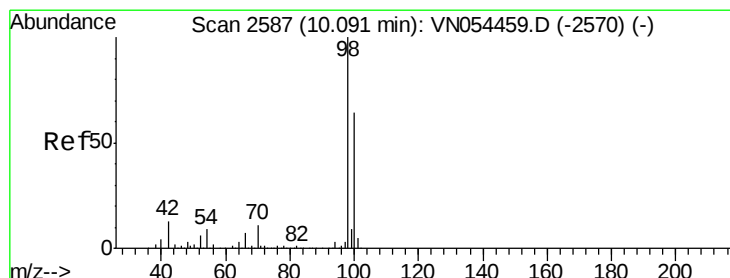
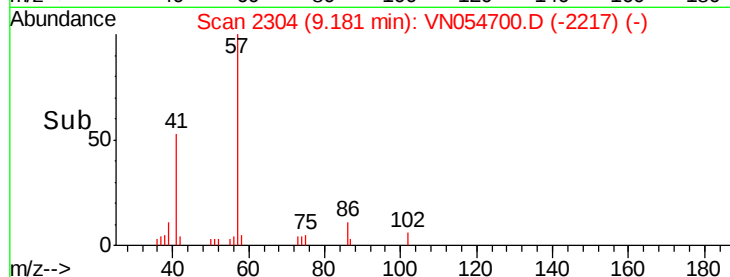
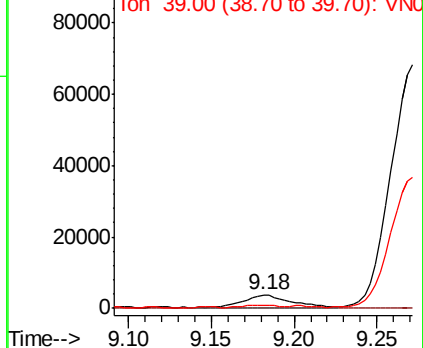
#48
Methvl methacrylate
Concen: 1.337 ug/l
RT: 9.18 min Scan# 2304
Delta R.T. -0.02 min
Lab File: VN054700.D
Acq: 26 Mar 2019 15:51

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 41 Resp: 7154
Ion Ratio Lower Upper
41 100
69 0.0 72.6 108.8#
39 0.0 47.5 71.3#

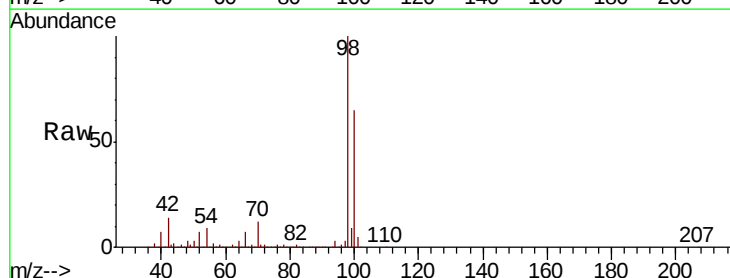


Abundance Ion 41.00 (40.70 to 41.70): VNC
Ion 69.00 (68.70 to 69.70): VNC
Ion 39.00 (38.70 to 39.70): VNC

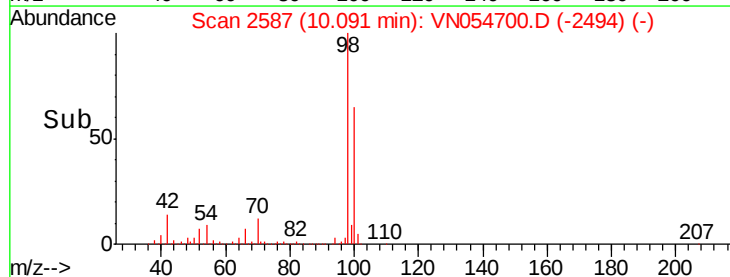
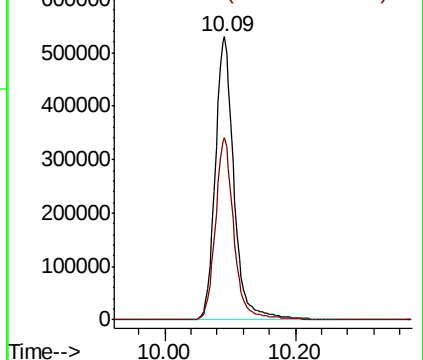


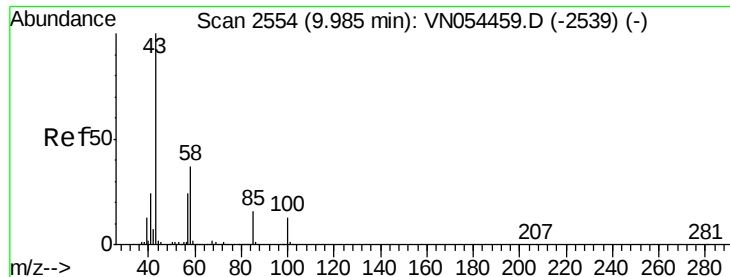
#50
Toluene-d8
Concen: 49.745 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. -0.00 min
Lab File: VN054700.D
Acq: 26 Mar 2019 15:51

Tgt Ion: 98 Resp: 1057524
Ion Ratio Lower Upper
98 100
100 63.7 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VNC
Ion 100.00 (99.70 to 100.70): VNC





#51

4-Methyl-2-Pentanone

Concen: 1.654 ug/l

RT: 10.02 min Scan# 2566

Delta R.T. 0.04 min

Lab File: VN054700.D

Acq: 26 Mar 2019 15:51

Instrument :

MSVOA_N

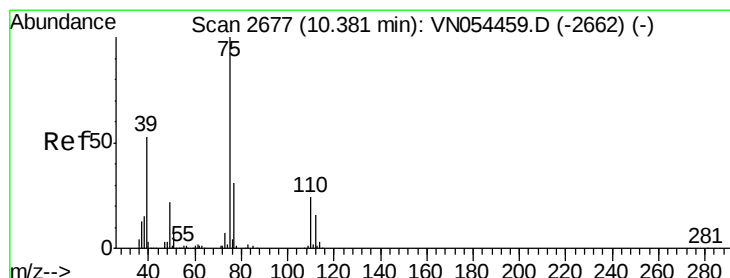
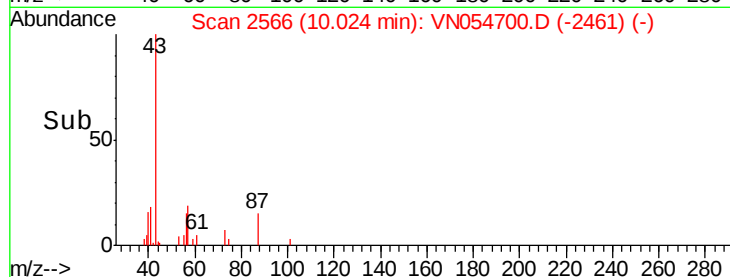
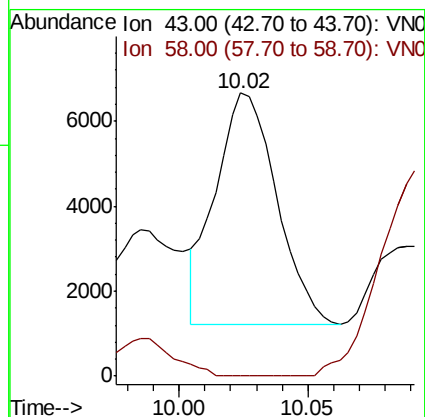
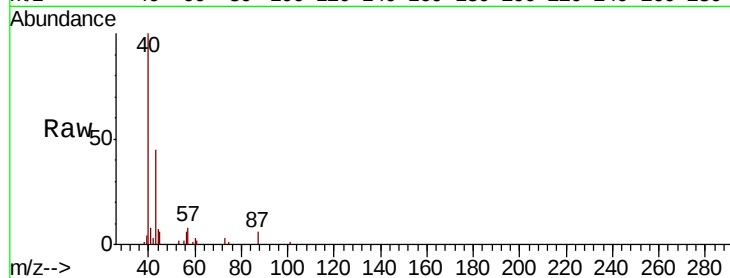
ClientSampled :

Tot Ion: 43 Resp: 9038

Ion Ratio Lower Upper

43 100

58 0.0 31.8 47.6#



#53

t-1,3-Dichloropropene

Concen: 2.252 ug/l

RT: 10.11 min Scan# 2592

Delta R.T. -0.27 min

Lab File: VN054700.D

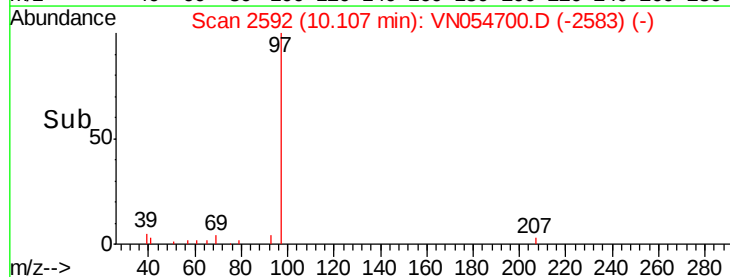
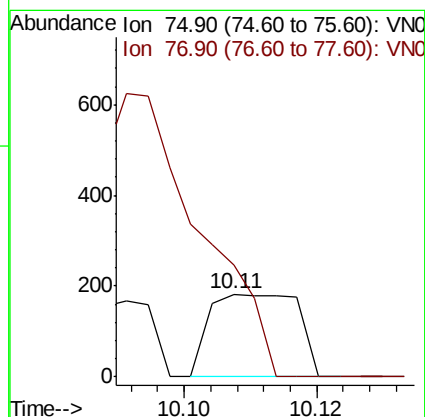
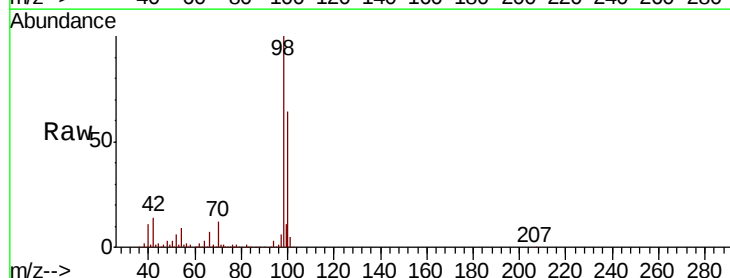
Acq: 26 Mar 2019 15:51

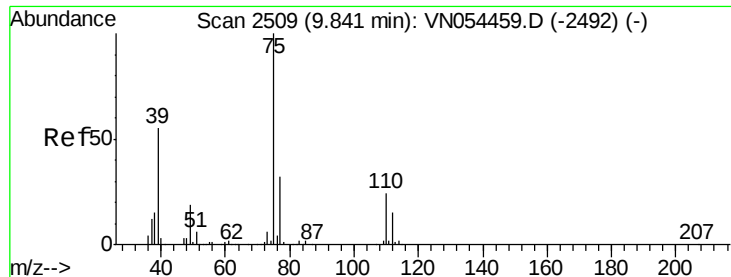
Tgt Ion: 75 Resp: 170

Ion Ratio Lower Upper

75 100

77 135.7 25.8 38.8#





#54

cis-1,3-Dichloropropene

Concen: 6.186 ug/l

RT: 9.90 min Scan# 2529

Delta R.T. 0.06 min

Lab File: VN054700.D

Acq: 26 Mar 2019 15:51

Instrument :

MSVOA_N

ClientSampleId :

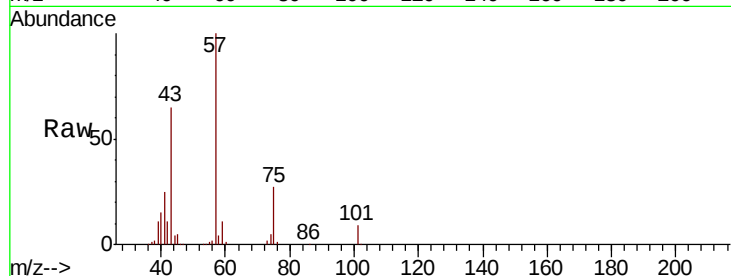
Tot Ion: 75 Resp: 55341

Ion Ratio Lower Upper

75 100

77 0.0 25.4 38.0#

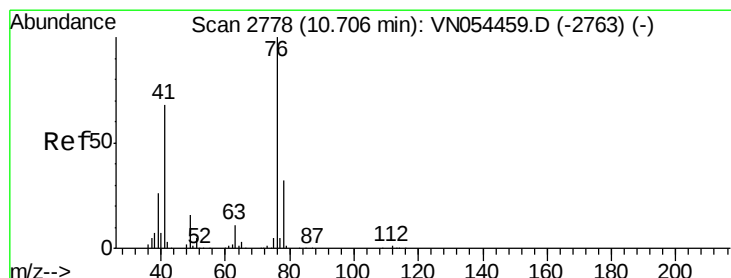
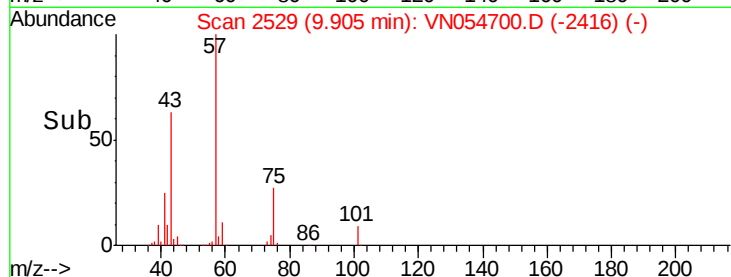
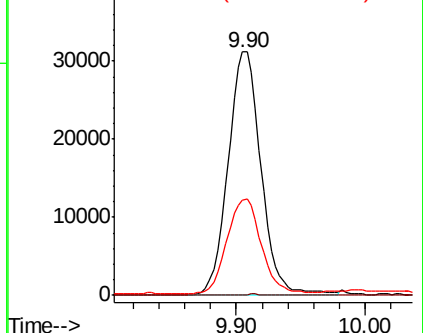
39 38.3 37.2 55.8



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: 1.124 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.06 min

Lab File: VN054700.D

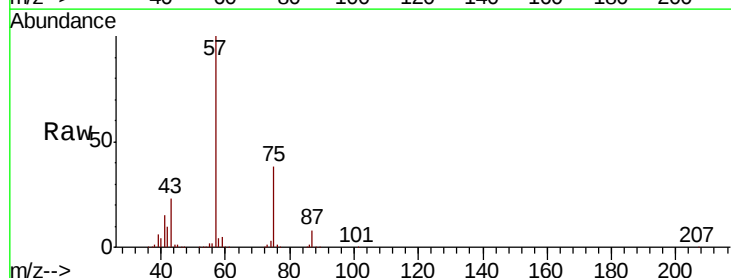
Acq: 26 Mar 2019 15:51

Tgt Ion: 76 Resp: 10140

Ion Ratio Lower Upper

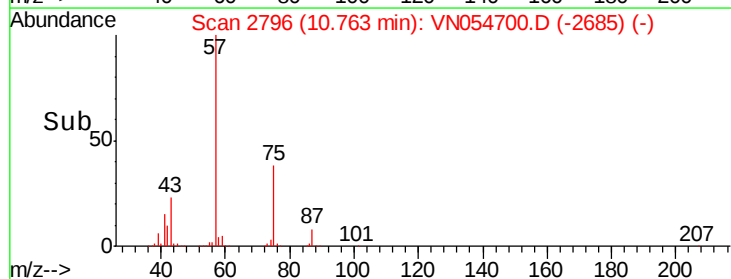
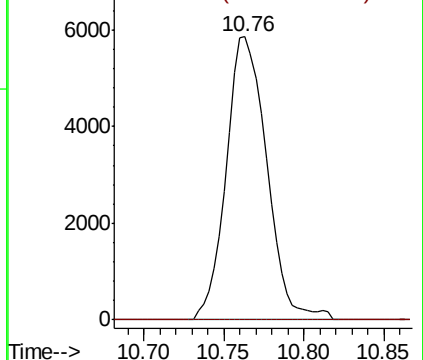
76 100

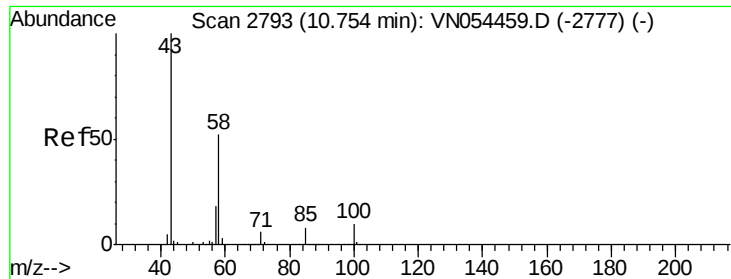
78 0.0 25.7 38.5#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0





#59

2-Hexanone

Concen: 49.454 ug/l

RT: 10.77 min Scan# 2797

Delta R.T. 0.01 min

Lab File: VN054700.D

Acq: 26 Mar 2019 15:51

Instrument :

MSVOA_N

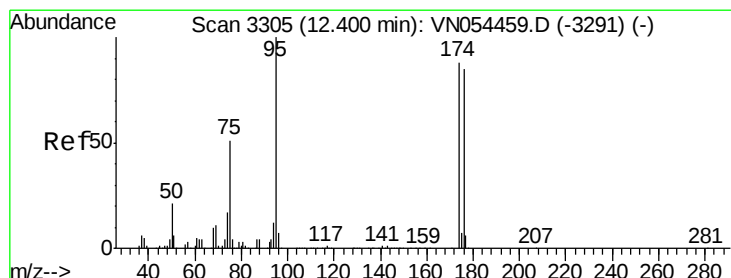
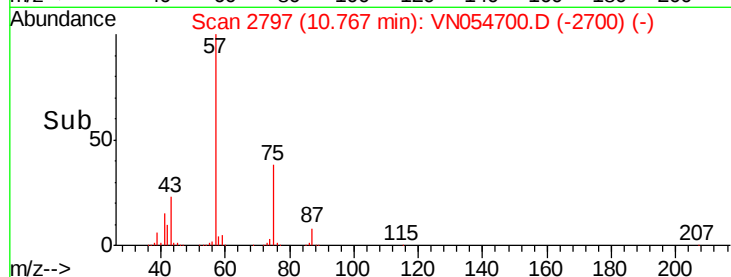
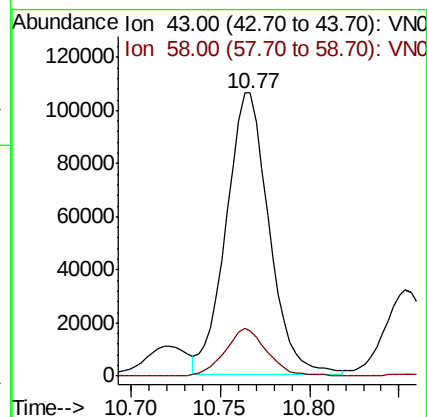
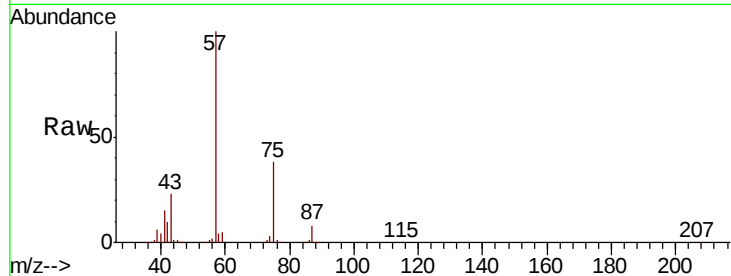
ClientSampled :

Tot Ion: 43 Resp: 176484

Ion Ratio Lower Upper

43 100

58 17.0 28.0 83.9#



#62

4-Bromofluorobenzene

Concen: 43.807 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.00 min

Lab File: VN054700.D

Acq: 26 Mar 2019 15:51

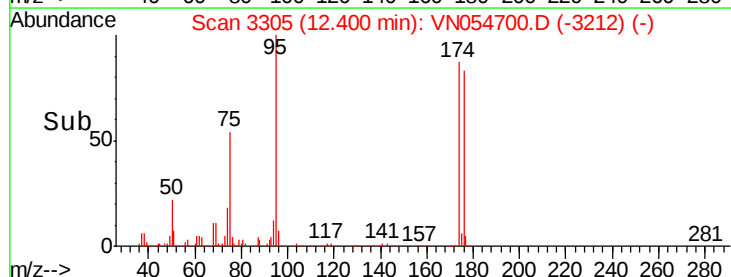
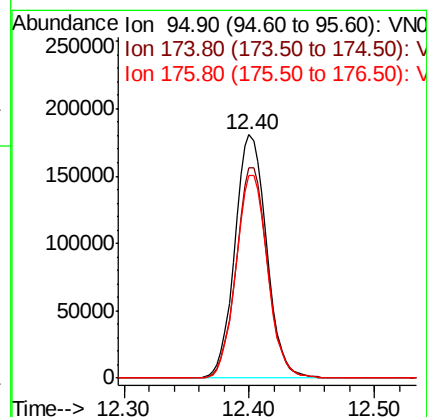
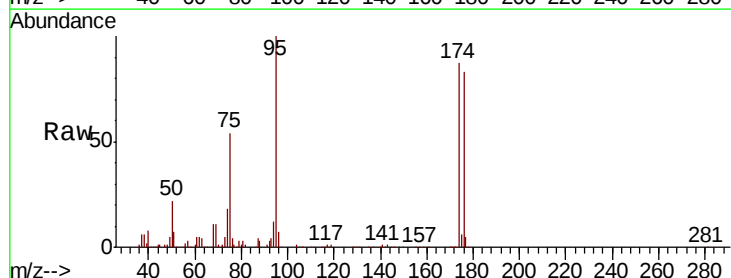
Tgt Ion: 95 Resp: 316908

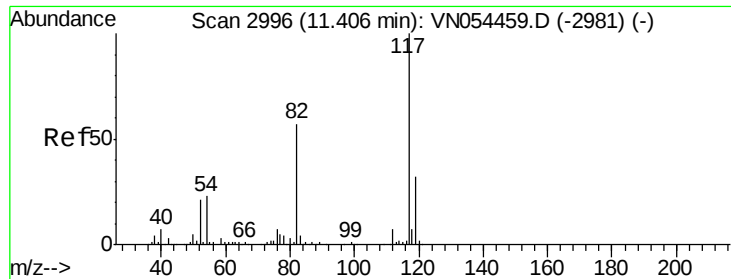
Ion Ratio Lower Upper

95 100

174 85.7 0.0 191.0

176 83.1 0.0 187.4

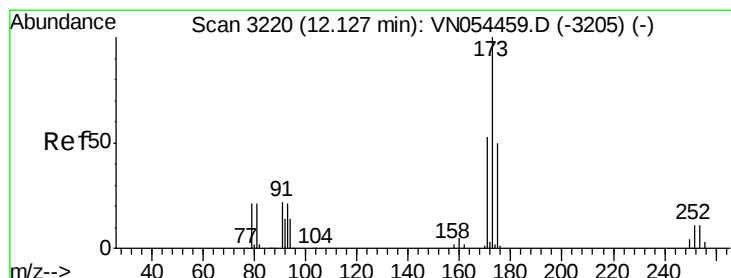
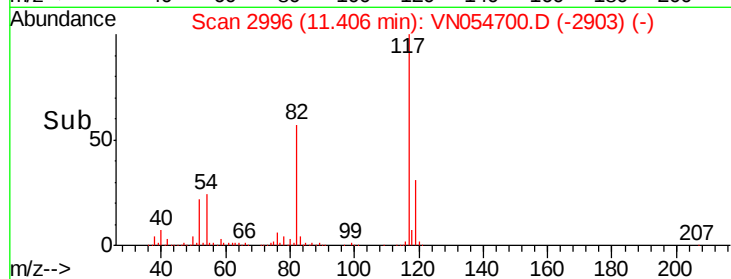
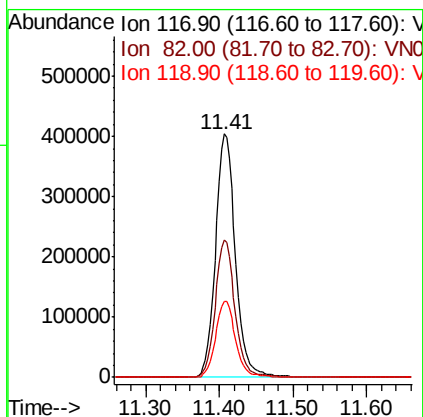
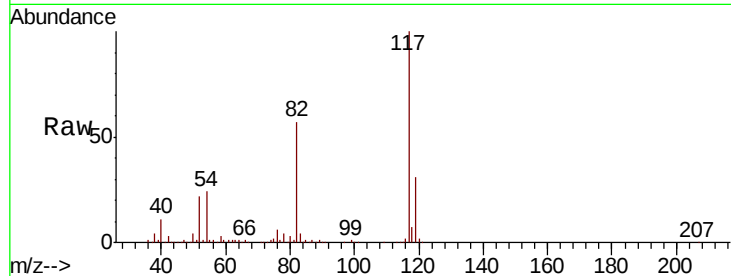




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN054700.D
Acq: 26 Mar 2019 15:51

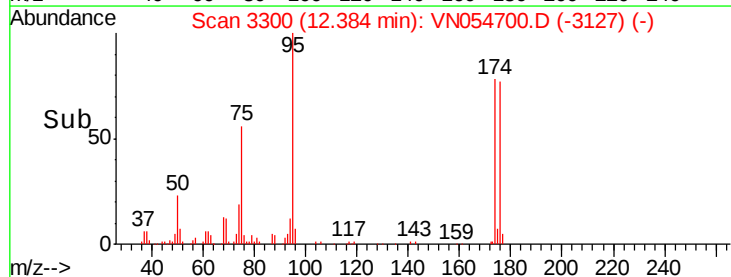
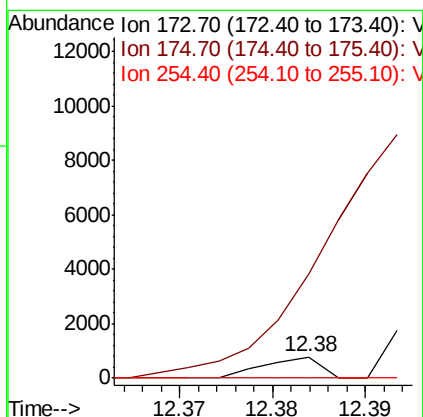
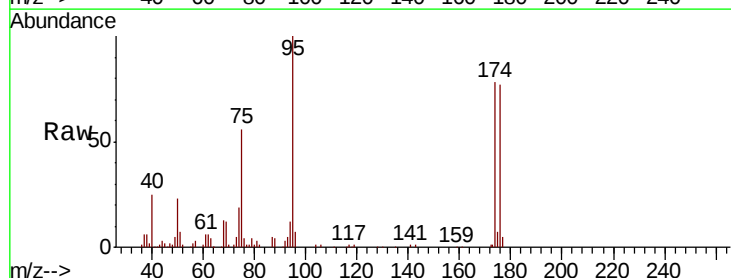
Instrument :
MSVOA_N
ClientSampled :

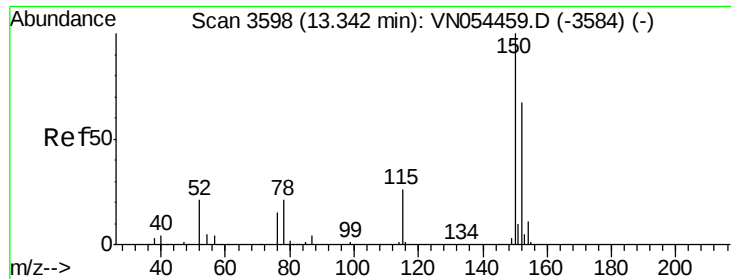
Tot Ion:117 Resp: 751651
Ion Ratio Lower Upper
117 100
82 56.5 40.0 60.0
119 31.4 25.8 38.6



#71
Bromoform
Concen: 2.302 ug/l
RT: 12.38 min Scan# 3300
Delta R.T. 0.26 min
Lab File: VN054700.D
Acq: 26 Mar 2019 15:51

Tgt Ion:173 Resp: 322
Ion Ratio Lower Upper
173 100
175 0.0 24.4 73.2#
254 0.0 0.1 0.1#



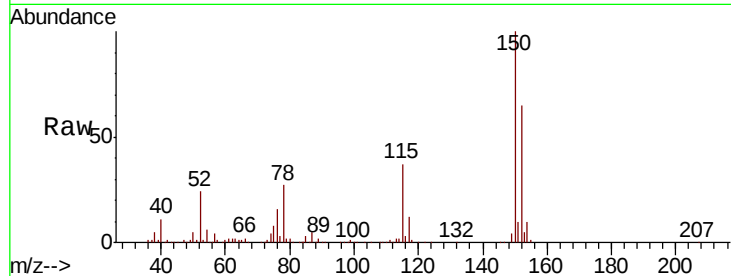


#72

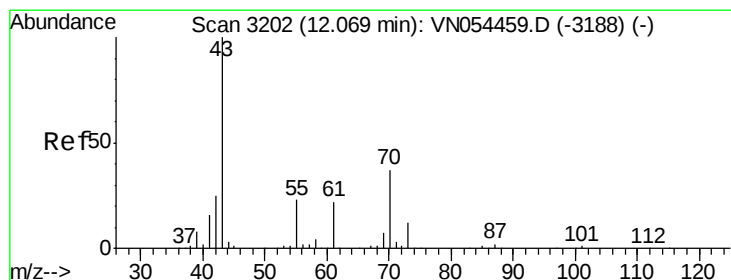
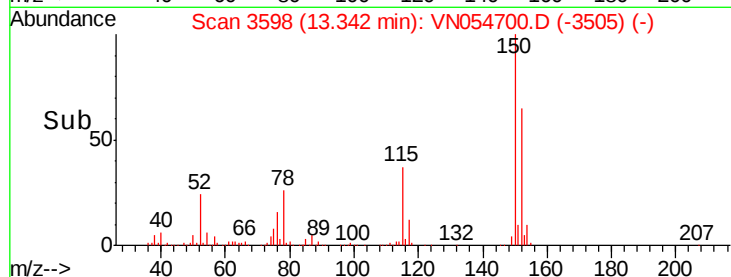
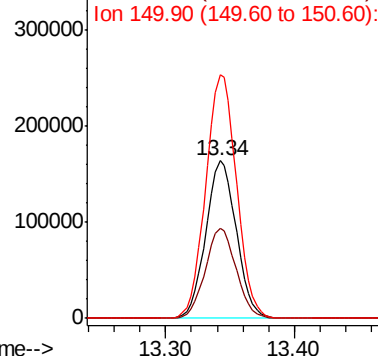
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3598
Delta R.T. -0.00 min
Lab File: VN054700.D
Acq: 26 Mar 2019 15:51

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:152 Resp: 269072
Ion Ratio Lower Upper
152 100
115 57.6 27.2 81.6
150 155.9 0.0 349.2



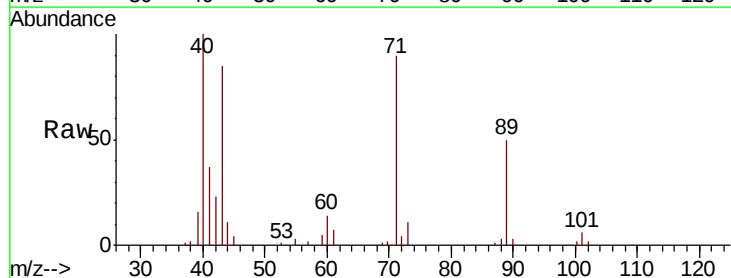
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



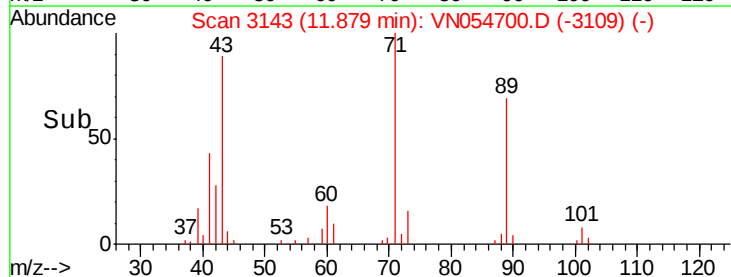
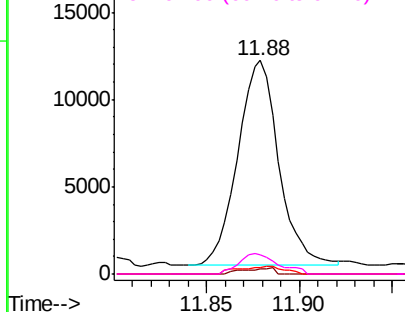
#74

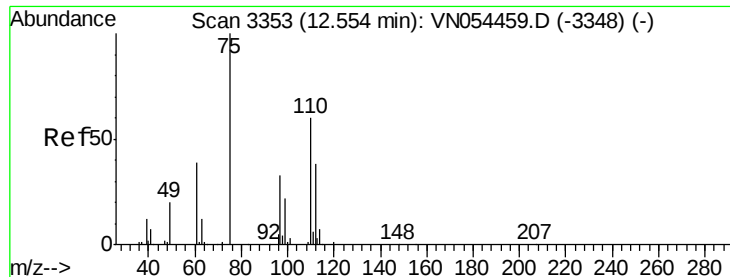
N-ethyl acetate
Concen: 2.885 ug/l
RT: 11.88 min Scan# 3143
Delta R.T. -0.19 min
Lab File: VN054700.D
Acq: 26 Mar 2019 15:51

Tgt Ion: 43 Resp: 17988
Ion Ratio Lower Upper
43 100
70 2.1 35.4 53.0#
55 4.2 19.8 29.6#
61 9.4 19.8 29.6#



Abundance Ion 43.00 (42.70 to 43.70): VNO
Ion 70.00 (69.70 to 70.70): VNO
Ion 55.00 (54.70 to 55.70): VNO
Ion 61.00 (60.70 to 61.70): VNO





#76

1,2,3-Trichloropropane

Concen: 39.370 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN054700.D

Acq: 26 Mar 2019 15:51

Instrument :

MSVOA_N

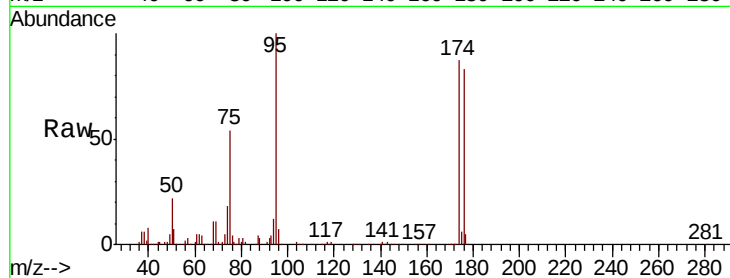
ClientSampled :

Tot Ion: 75 Resp: 168100

Ion Ratio Lower Upper

75 100

77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN054459.D (-3348) (-)

Ion 77.00 (76.70 to 77.70): VN054459.D (-3348) (-)

12.40

100000

80000

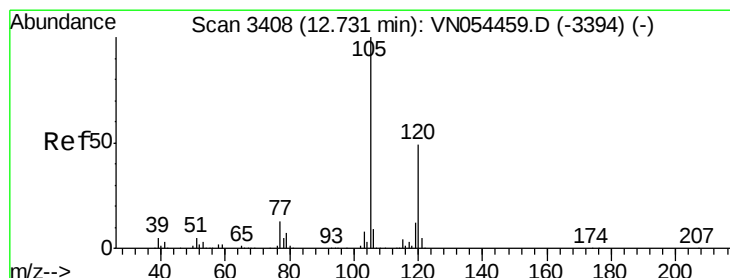
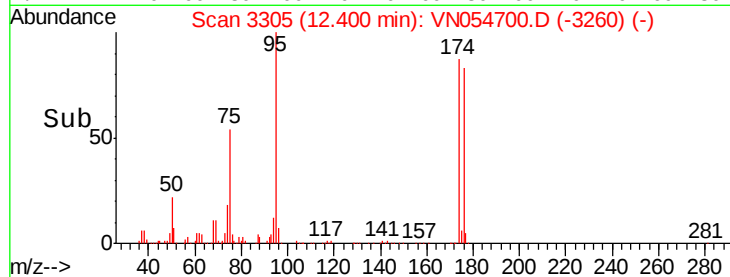
60000

40000

20000

0

Time-->



#80

1,3,5-Trimethylbenzene

Concen: 0.302 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. 0.00 min

Lab File: VN054700.D

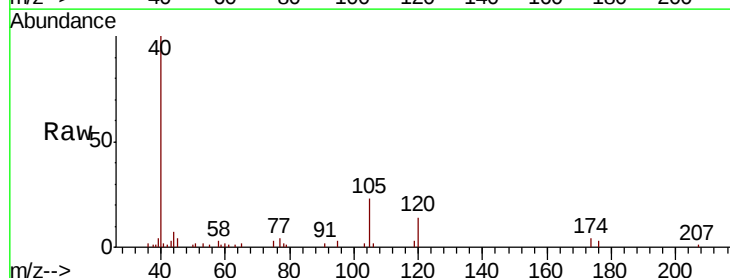
Acq: 26 Mar 2019 15:51

Tgt Ion: 105 Resp: 5369

Ion Ratio Lower Upper

105 100

120 58.1 25.0 75.0



Abundance Ion 105.00 (104.70 to 105.70): VN054459.D (-3394) (-)

Ion 120.00 (119.70 to 120.70): VN054459.D (-3394) (-)

12.73

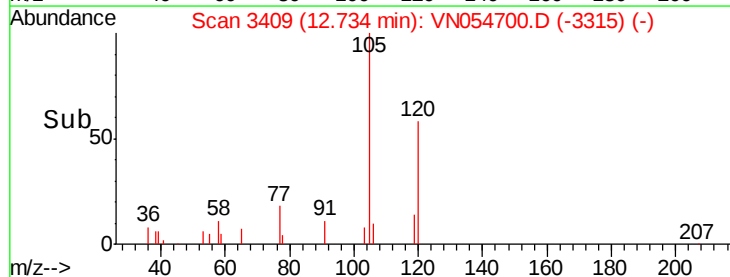
3000

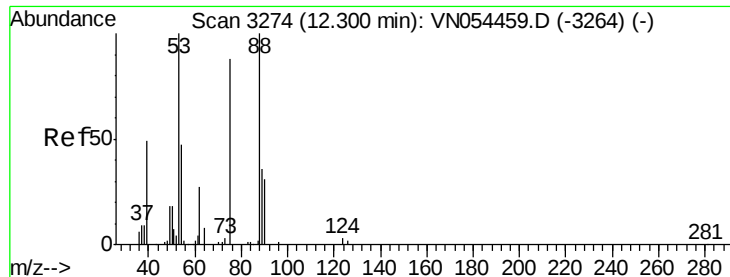
2000

1000

0

Time-->

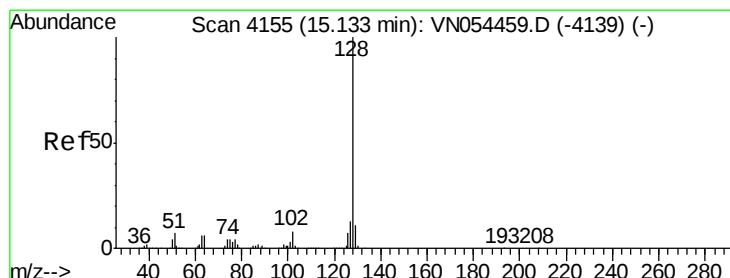
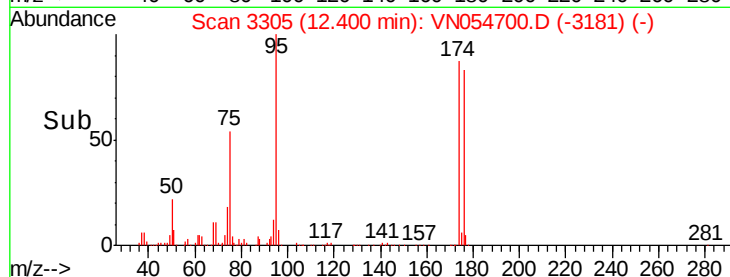
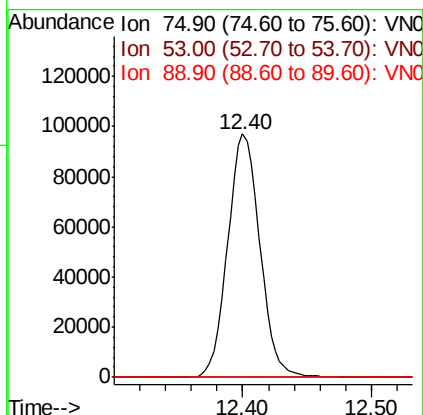
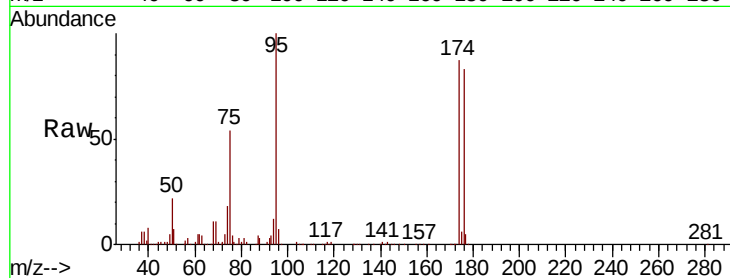




#81
trans-1,4-Dichloro-2-butene
Concen: 130.284 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.10 min
Lab File: VN054700.D
Acq: 26 Mar 2019 15:51

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 75 Resp: 168100
Ion Ratio Lower Upper
75 100
53 0.0 76.2 114.2#
89 0.0 39.2 58.8#



#95
Naphthalene
Concen: 0.227 ug/l
RT: 15.14 min Scan# 4156
Delta R.T. 0.00 min
Lab File: VN054700.D
Acq: 26 Mar 2019 15:51

Tgt Ion: 128 Resp: 2180
Ion Ratio Lower Upper
128 100
127 9.8 10.1 15.1#
129 0.0 8.7 13.1#

