

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN032619\
 Data File : VN054691.D
 Acq On : 26 Mar 2019 11:54
 Operator : JC/SP
 Sample : K2056-05
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

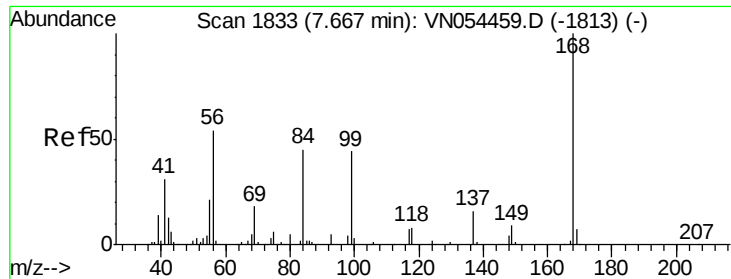
Quant Time: Mar 27 04:05:44 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N032019W.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 22 02:09:07 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	555668	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	880666	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	747552	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	264691	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	360012	52.09	ug/l	0.00
Spiked Amount			Recovery	=	104.18%	
35) Dibromofluoromethane	7.59	113	280921	49.51	ug/l	0.00
Spiked Amount			Recovery	=	99.02%	
50) Toluene-d8	10.09	98	1061413	49.76	ug/l	0.00
Spiked Amount			Recovery	=	99.52%	
62) 4-Bromofluorobenzene	12.40	95	320676	44.18	ug/l	0.00
Spiked Amount			Recovery	=	88.36%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
13) Acrolein	3.60	56	394	0.682	ug/l #	14
16) Acetone	3.82	43	13753	6.618	ug/l	90
18) Methyl Acetate	4.34	43	1868	0.403	ug/l #	70
20) Methylene Chloride	4.55	84	14181	2.315	ug/l #	87
25) 2-Butanone	6.86	43	768	0.289	ug/l #	84
29) Tetrahydrofuran	7.23	42	1281	0.742	ug/l #	45
31) Cyclohexane	7.66	56	12302	Below Cal	#	25
36) 1,1-Dichloropropene	7.67	75	42466	5.157	ug/l #	48
38) Carbon Tetrachloride	7.67	117	52543	6.566	ug/l #	15
43) Isopropyl Acetate	8.17	43	10283	1.040	ug/l #	93
48) Methyl methacrylate	9.18	41	5403	1.006	ug/l #	11
51) 4-Methyl-2-Pentanone	9.99	43	4178	0.762	ug/l	99
53) t-1,3-Dichloropropene	10.31	75	32	2.236	ug/l #	42
54) cis-1,3-Dichloropropene	9.90	75	44575	4.966	ug/l #	72
57) 1,3-Dichloropropane	10.77	76	6925	0.765	ug/l #	43
59) 2-Hexanone	10.76	43	117177	32.727	ug/l #	48
71) Bromoform	12.38	173	110	2.248	ug/l #	28
76) 1,2,3-Trichloropropane	12.40	75	170745	40.651	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	170745	134.421	ug/l #	11

(#) = 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

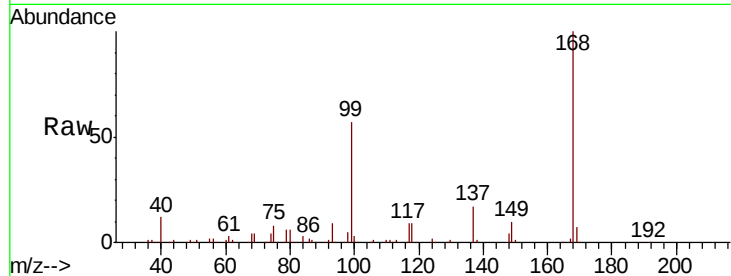
ClientSampled :

Tot Ion:168 Resp: 555668

Ion Ratio Lower Upper

168 100

99 57.0 37.1 55.7#



Abundance Ion 167.90 (167.60 to 168.60): VN054459.D (-1813) (-)

Ion 98.90 (98.60 to 99.60): VN054459.D (-1813) (-)

7.66

200000

150000

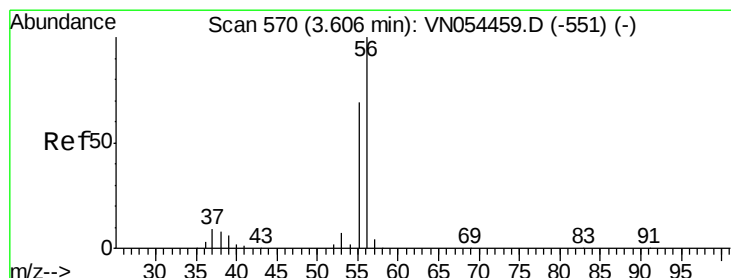
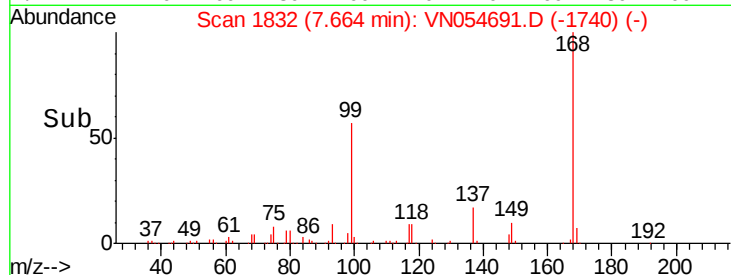
100000

50000

0

7.50 7.60 7.70 7.80

Time-->



#13

Acrolein

Concen: 0.682 ug/l

RT: 3.60 min Scan# 567

Delta R.T. -0.01 min

Lab File: VN054691.D

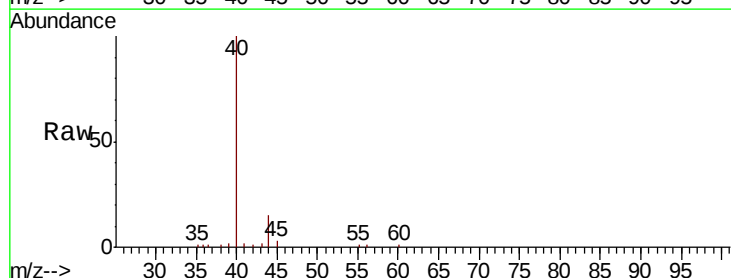
Acq: 26 Mar 2019 11:54

Tgt Ion: 56 Resp: 394

Ion Ratio Lower Upper

56 100

55 0.0 56.7 85.1#



Abundance Ion 56.00 (55.70 to 56.70): VN054459.D (-551) (-)

Ion 55.00 (54.70 to 55.70): VN054459.D (-551) (-)

3.60

400

300

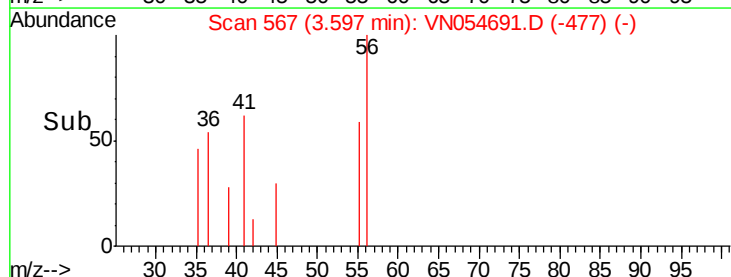
200

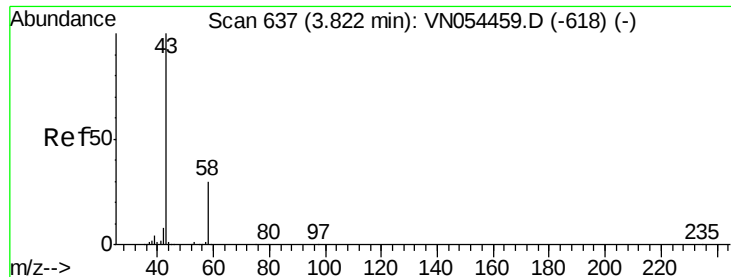
100

0

3.58 3.60 3.62

Time-->





#16

Acetone

Concen: 6.618 ug/l

RT: 3.82 min Scan# 638

Delta R.T. 0.00 min

Lab File: VN054691.D

Acq: 26 Mar 2019 11:54

Instrument :

MSVOA_N

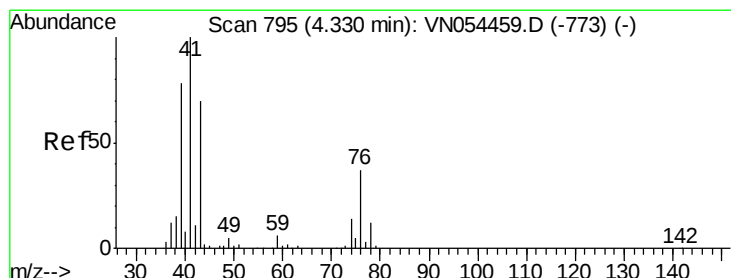
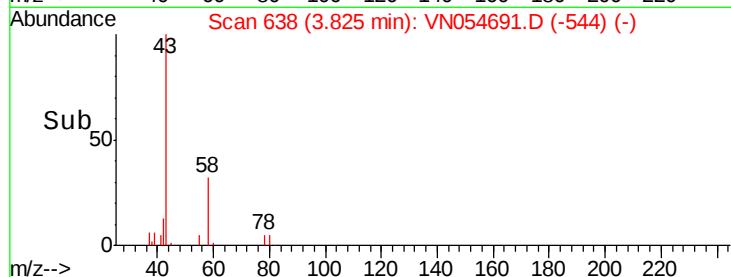
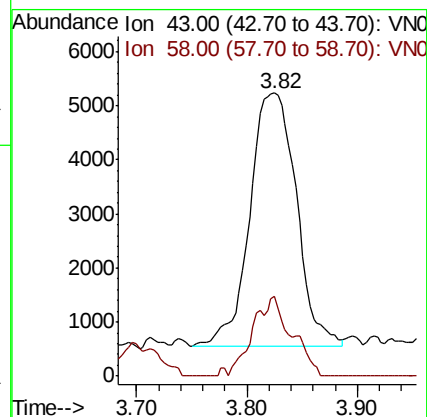
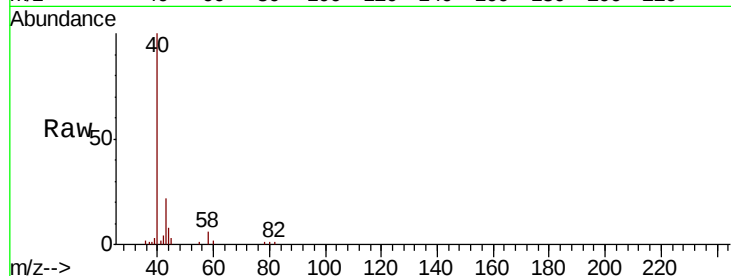
ClientSampleId :

Tot Ion: 43 Resp: 13753

Ion Ratio Lower Upper

43 100

58 31.5 29.9 44.9



#18

Methyl Acetate

Concen: 0.403 ug/l

RT: 4.34 min Scan# 798

Delta R.T. 0.01 min

Lab File: VN054691.D

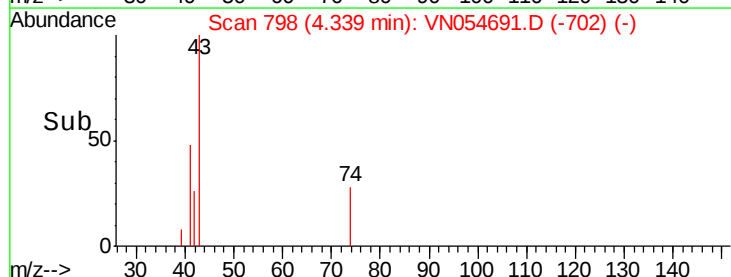
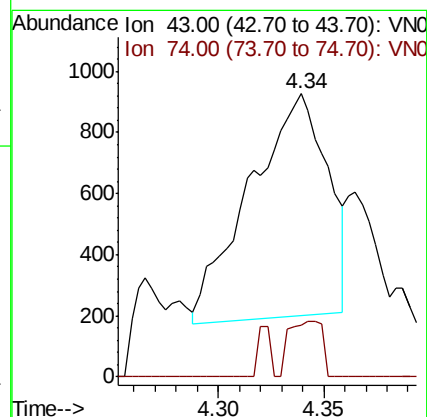
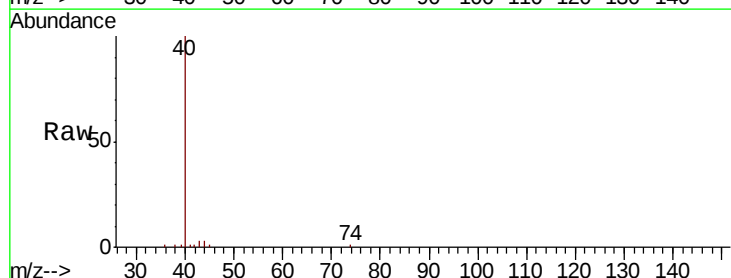
Acq: 26 Mar 2019 11:54

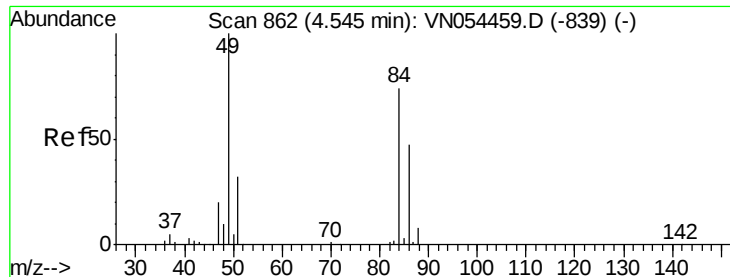
Tgt Ion: 43 Resp: 1868

Ion Ratio Lower Upper

43 100

74 10.7 20.8 31.2#

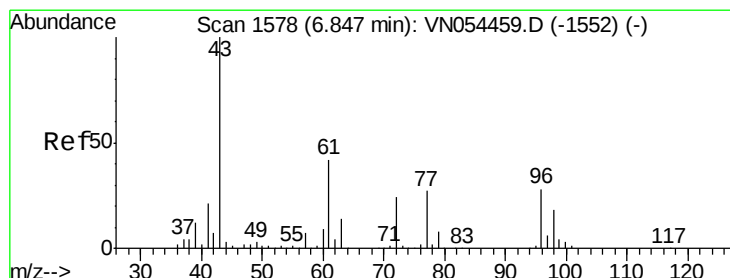
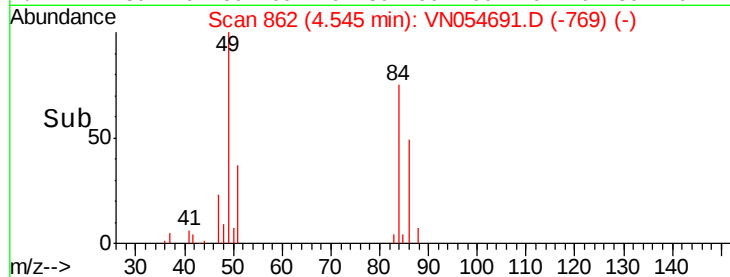
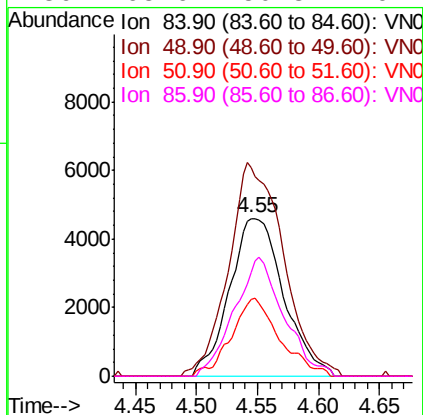
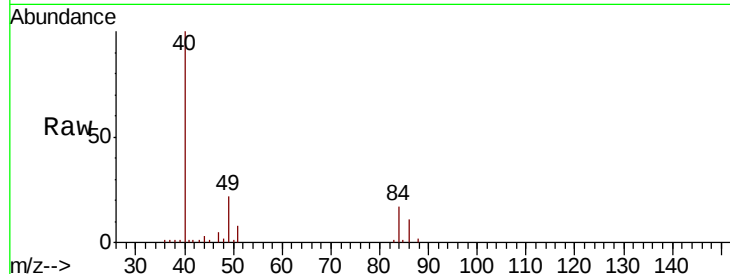




#20
Methvlene Chloride
Concen: 2.315 ug/l
RT: 4.55 min Scan# 862
Delta R.T. 0.00 min
Lab File: VN054691.D
Acq: 26 Mar 2019 11:54

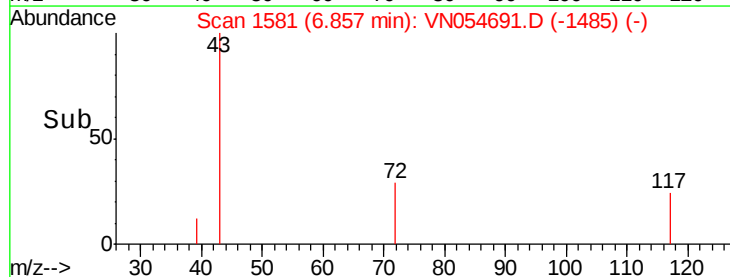
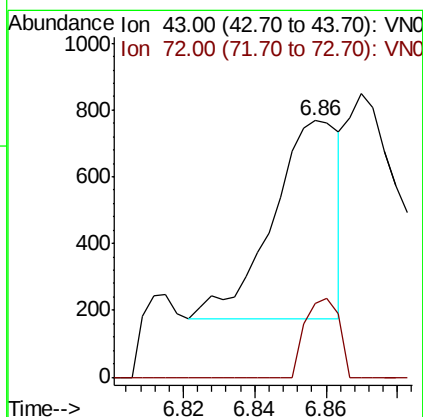
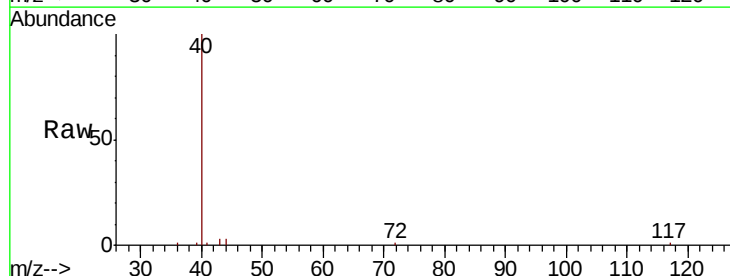
Instrument :
MSVOA_N
ClientSampled :

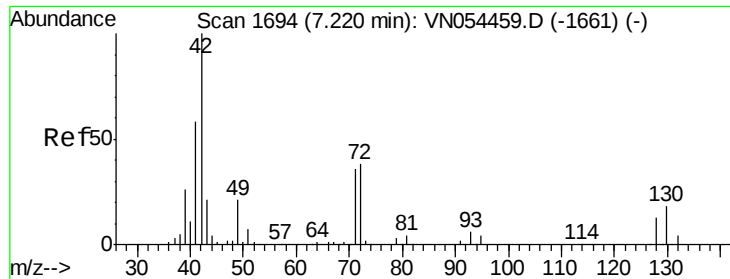
Tot Ion: 84 Resp: 14181
Ion Ratio Lower Upper
84 100
49 129.0 89.7 134.5
51 48.7 28.2 42.4#
86 65.6 50.8 76.2



#25
2-Butanone
Concen: 0.289 ug/l
RT: 6.86 min Scan# 1581
Delta R.T. 0.01 min
Lab File: VN054691.D
Acq: 26 Mar 2019 11:54

Tgt Ion: 43 Resp: 768
Ion Ratio Lower Upper
43 100
72 37.2 23.0 34.6#

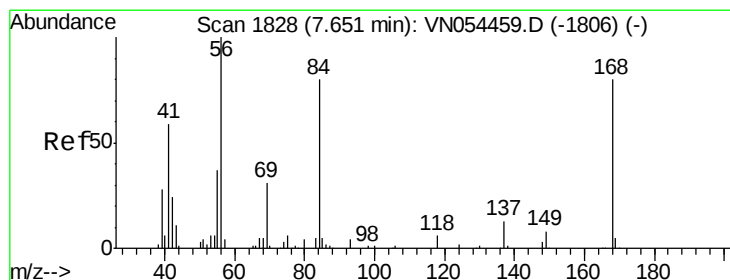
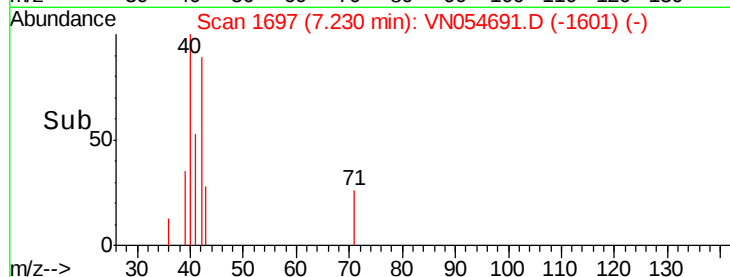
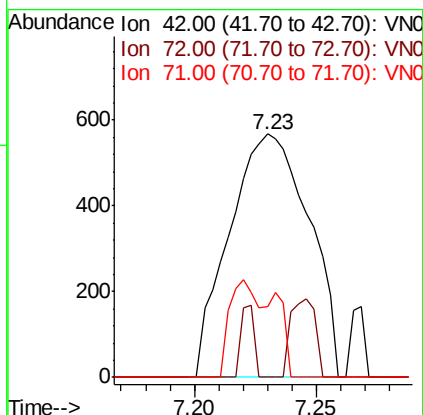
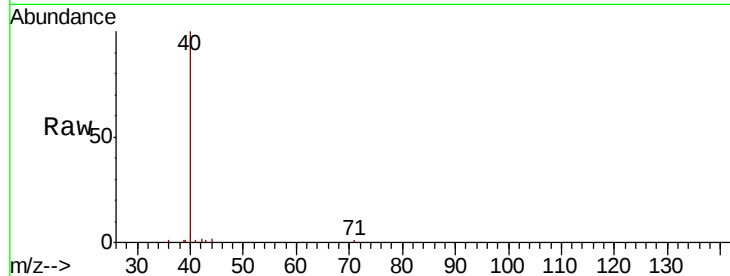




#29
Tetrahydrofuran
Concen: 0.742 ug/l
RT: 7.23 min Scan# 1697
Delta R.T. 0.01 min
Lab File: VN054691.D
Acq: 26 Mar 2019 11:54

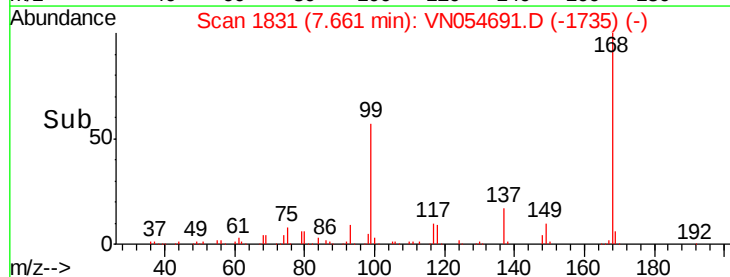
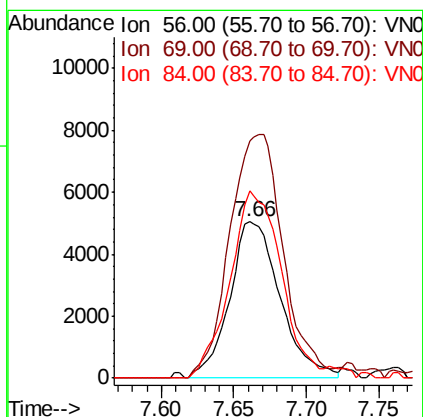
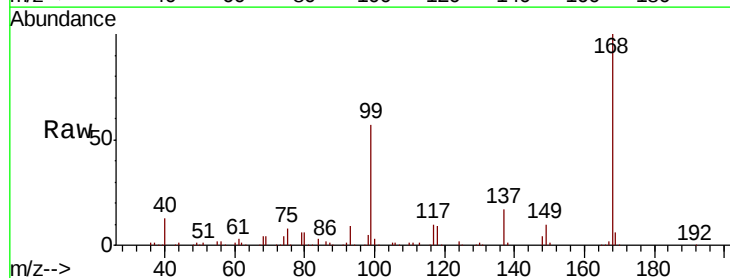
Instrument :
MSVOA_N
ClientSampleId :

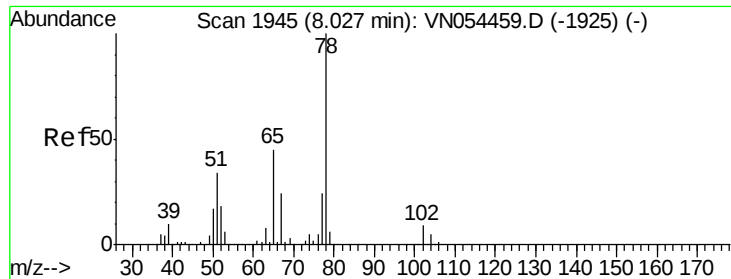
Tot Ion: 42 Resp: 1281
Ion Ratio Lower Upper
42 100
72 5.0 37.8 56.6#
71 14.3 36.2 54.2#



#31
Cyclohexane
Concen: Below Cal
RT: 7.66 min Scan# 1831
Delta R.T. 0.01 min
Lab File: VN054691.D
Acq: 26 Mar 2019 11:54

Tgt Ion: 56 Resp: 12302
Ion Ratio Lower Upper
56 100
69 151.3 27.8 41.6#
84 119.4 74.6 111.8#

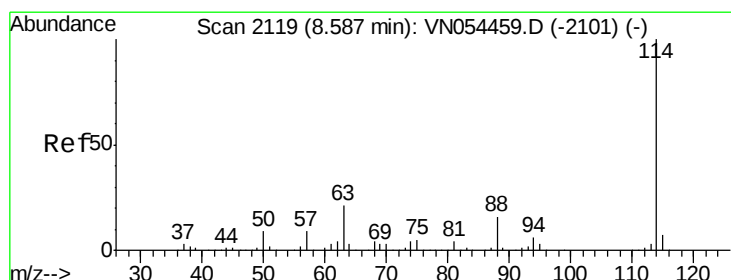
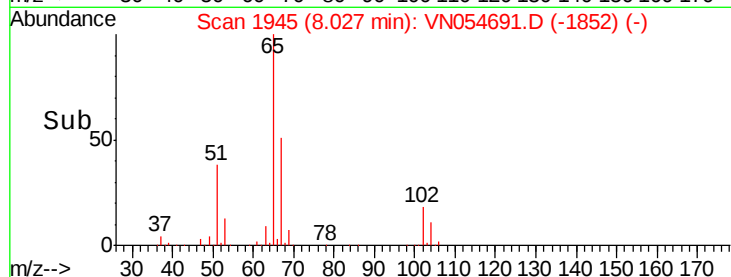
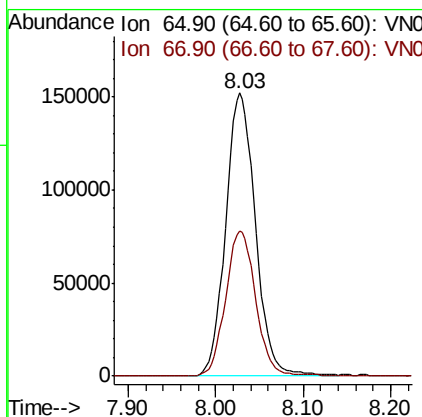
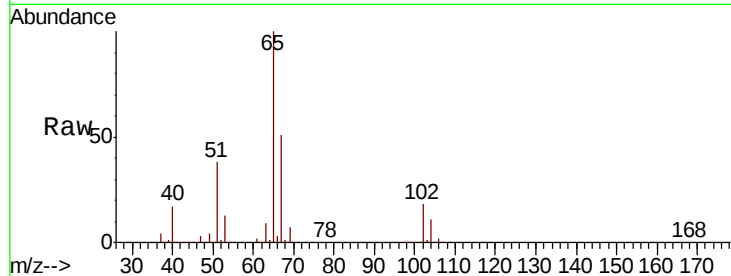




#33
 1,2-Dichloroethane-d4
 Concen: 52.088 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN054691.D
 Acq: 26 Mar 2019 11:54

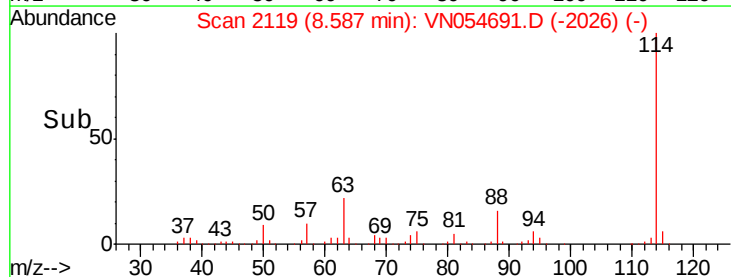
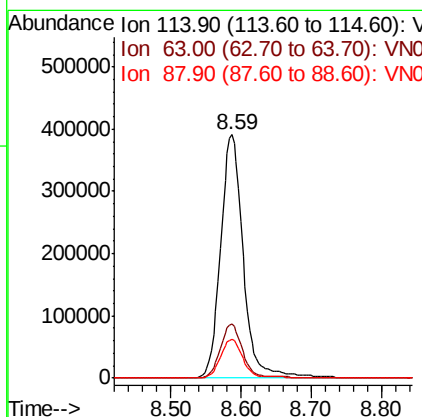
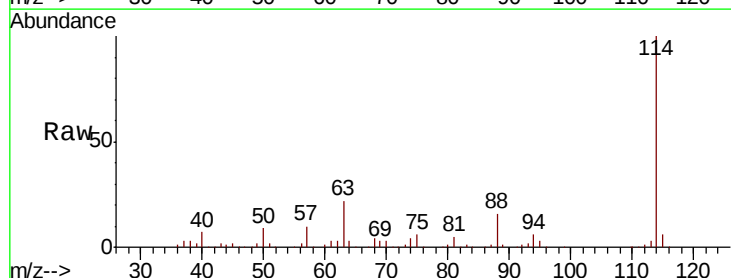
Instrument :
 MSVOA_N
 ClientSampleId :

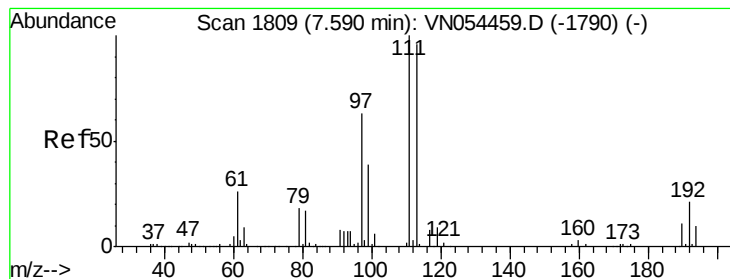
Tot Ion: 65 Resp: 360012
 Ion Ratio Lower Upper
 65 100
 67 51.9 0.0 104.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN054691.D
 Acq: 26 Mar 2019 11:54

Tgt Ion: 114 Resp: 880666
 Ion Ratio Lower Upper
 114 100
 63 22.2 0.0 35.2
 88 15.7 0.0 30.2





#35

Dibromofluoromethane

Concen: 49.513 ug/l

RT: 7.59 min Scan# 1810

Delta R.T. 0.00 min

Lab File: VN054691.D

Acq: 26 Mar 2019 11:54

Instrument :
MSVOA_N
ClientSampleId :

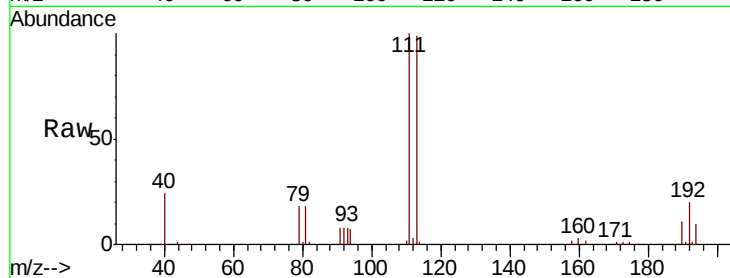
Tot Ion:113 Resp: 280921

Ion Ratio Lower Upper

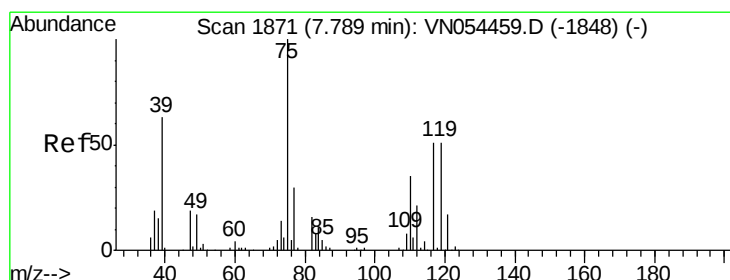
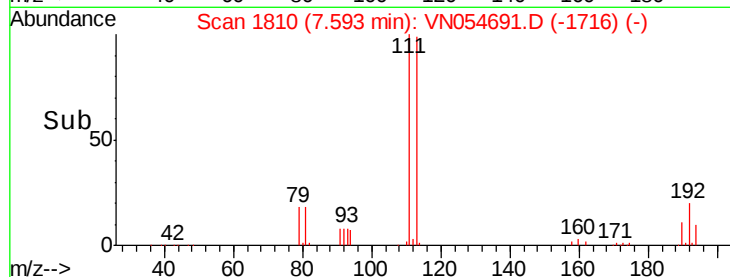
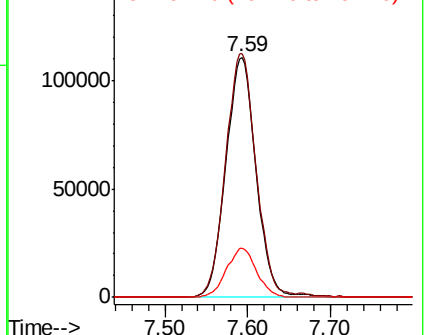
113 100

111 101.6 82.2 123.4

192 20.4 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: 5.157 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.12 min

Lab File: VN054691.D

Acq: 26 Mar 2019 11:54

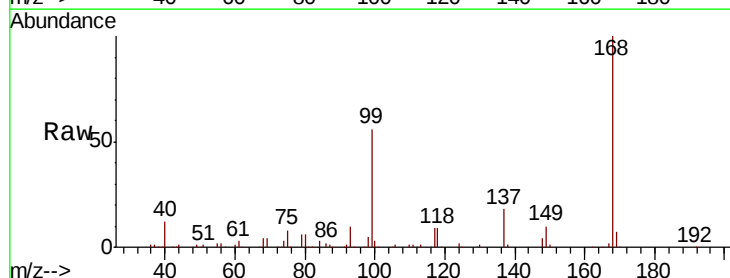
Tgt Ion: 75 Resp: 42466

Ion Ratio Lower Upper

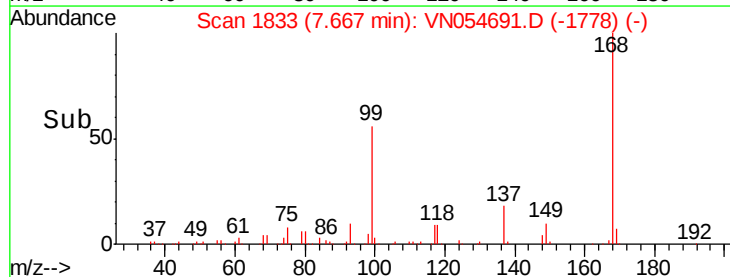
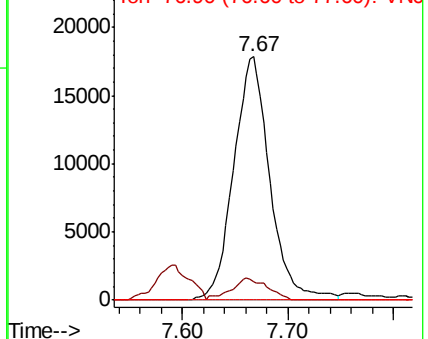
75 100

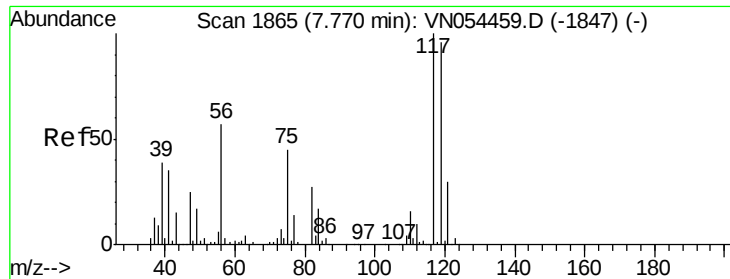
110 8.7 19.1 57.5#

77 0.0 25.0 37.4#



Abundance Ion 74.90 (74.60 to 75.60): VNO
Ion 109.90 (109.60 to 110.60): V
Ion 76.90 (76.60 to 77.60): VNO





#38

Carbon Tetrachloride

Concen: 6.566 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.10 min

Lab File: VN054691.D

Acq: 26 Mar 2019 11:54

Instrument :

MSVOA_N

ClientSampleId :

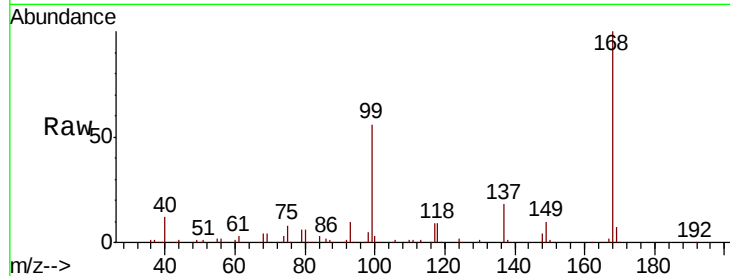
Tot Ion:117 Resp: 52543

Ion Ratio Lower Upper

117 100

119 3.8 76.3 114.5#

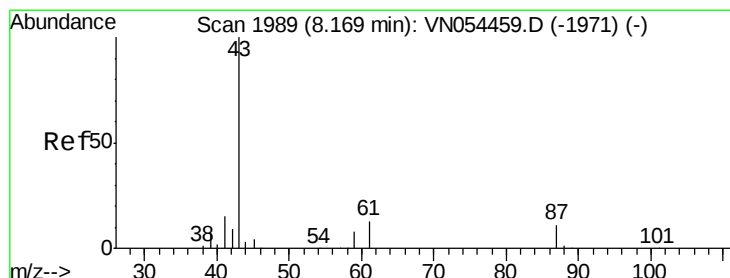
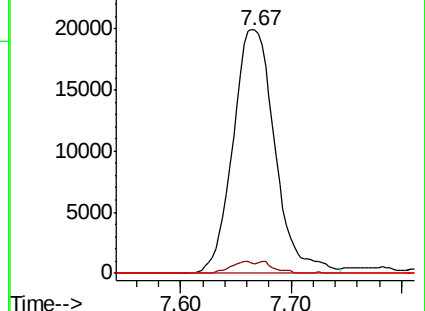
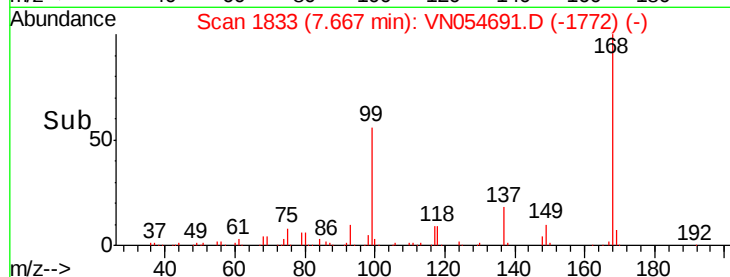
121 0.0 24.6 36.8#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#43

Isopropyl Acetate

Concen: 1.040 ug/l

RT: 8.17 min Scan# 1990

Delta R.T. 0.00 min

Lab File: VN054691.D

Acq: 26 Mar 2019 11:54

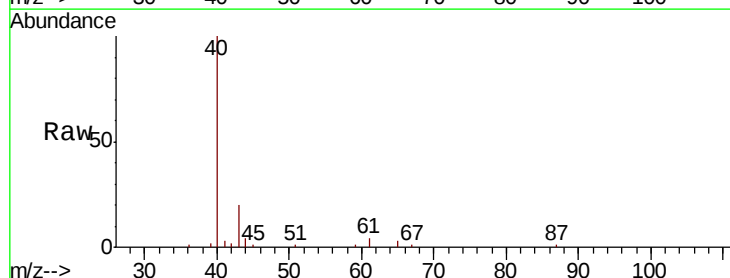
Tgt Ion: 43 Resp: 10283

Ion Ratio Lower Upper

43 100

61 20.1 15.8 23.8

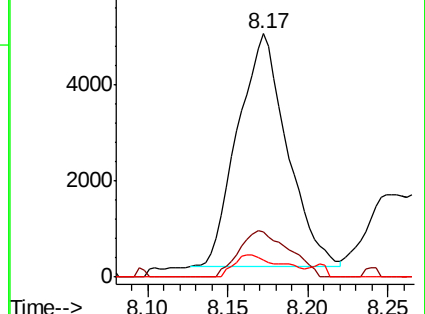
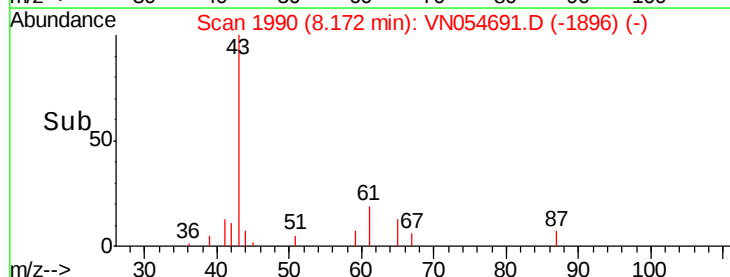
87 9.1 12.0 18.0#

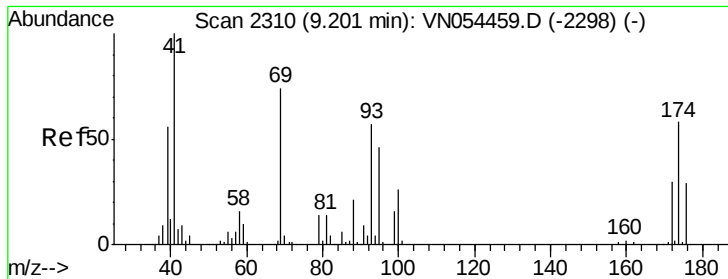


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V





#48

Methvl methacrylate

Concen: 1.006 ug/l

RT: 9.18 min Scan# 2304

Delta R.T. -0.02 min

Lab File: VN054691.D

Acq: 26 Mar 2019 11:54

Instrument :
MSVOA_N
ClientSampled :

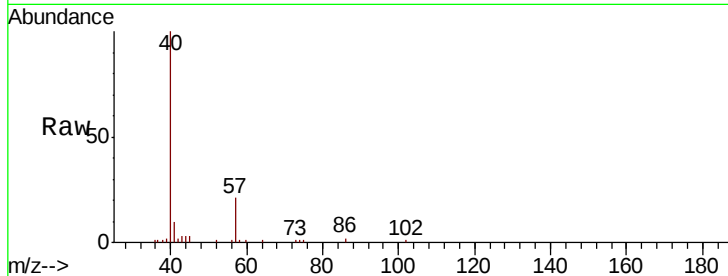
Tot Ion: 41 Resp: 5403

Ion Ratio Lower Upper

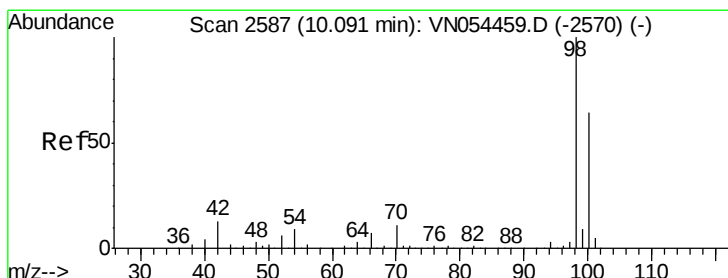
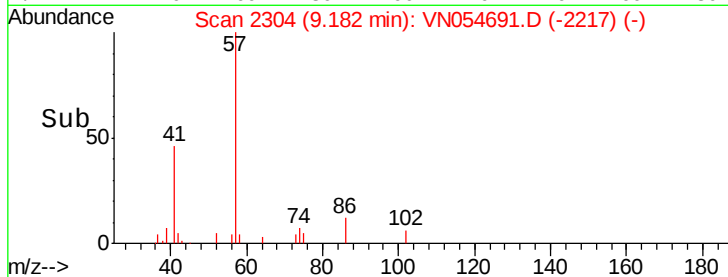
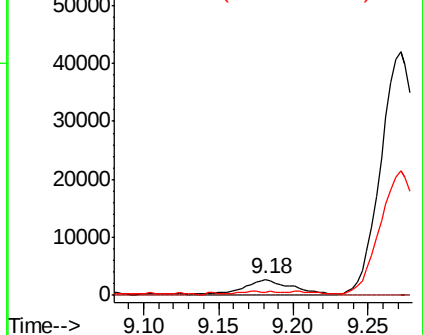
41 100

69 0.0 72.6 108.8#

39 0.0 47.5 71.3#



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



#50

Toluene-d8

Concen: 49.763 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN054691.D

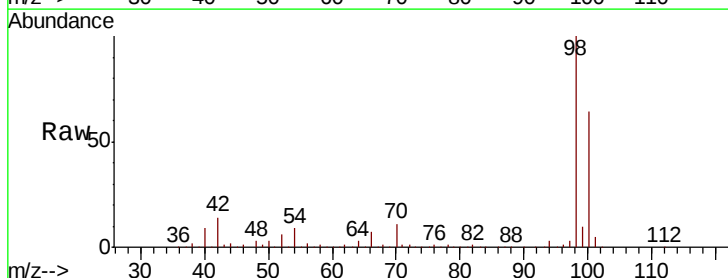
Acq: 26 Mar 2019 11:54

Tgt Ion: 98 Resp: 1061413

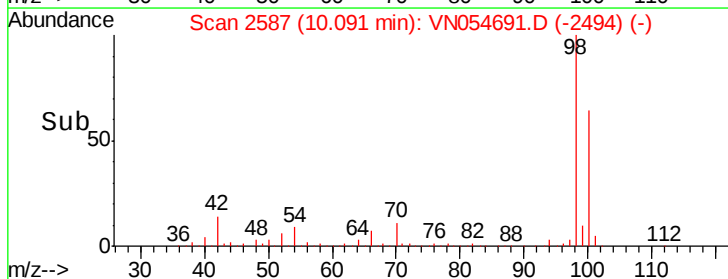
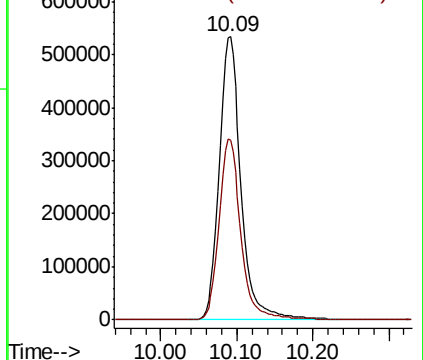
Ion Ratio Lower Upper

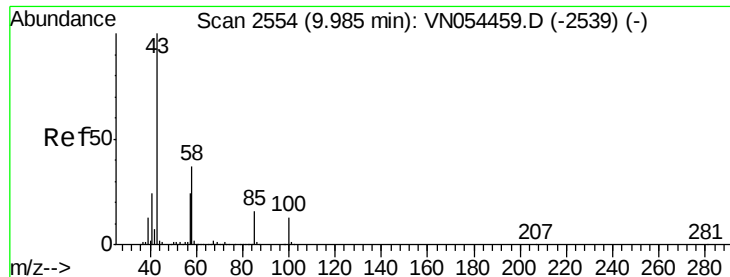
98 100

100 64.1 51.2 76.8



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





#51

4-Methyl-2-Pentanone

Concen: 0.762 ug/l

RT: 9.99 min Scan# 2555

Delta R.T. 0.00 min

Lab File: VN054691.D

Acq: 26 Mar 2019 11:54

Instrument :

MSVOA_N

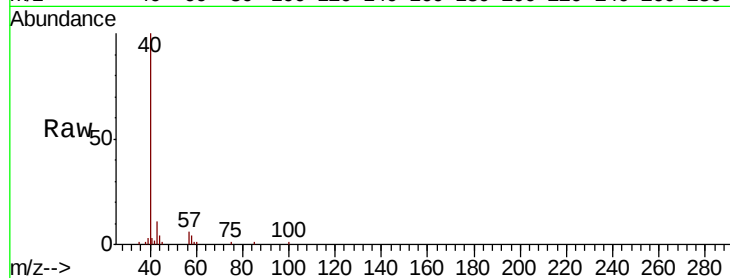
ClientSampled :

Tot Ion: 43 Resp: 4178

Ion Ratio Lower Upper

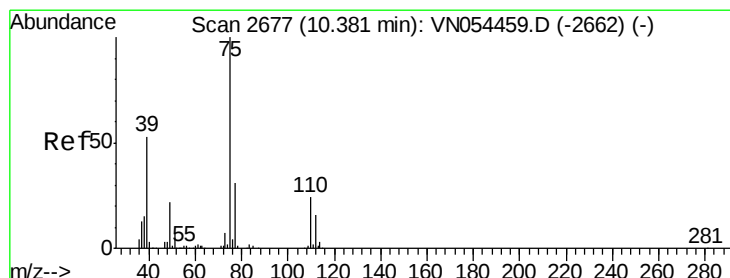
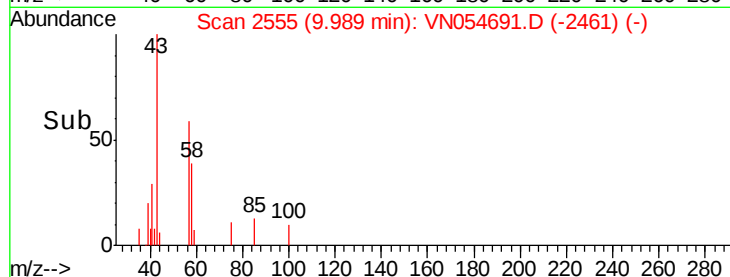
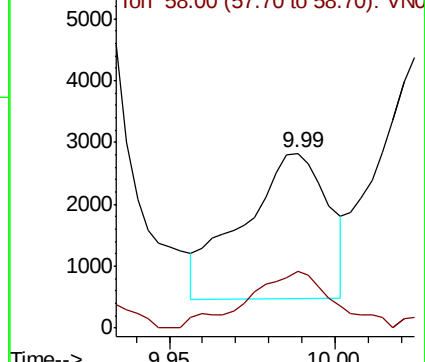
43 100

58 39.3 31.8 47.6



Abundance Ion 43.00 (42.70 to 43.70): VN054459.D (-2539) (-)

Ion 58.00 (57.70 to 58.70): VN054459.D (-2539) (-)



#53

t-1,3-Dichloropropene

Concen: 2.236 ug/l

RT: 10.31 min Scan# 2655

Delta R.T. -0.07 min

Lab File: VN054691.D

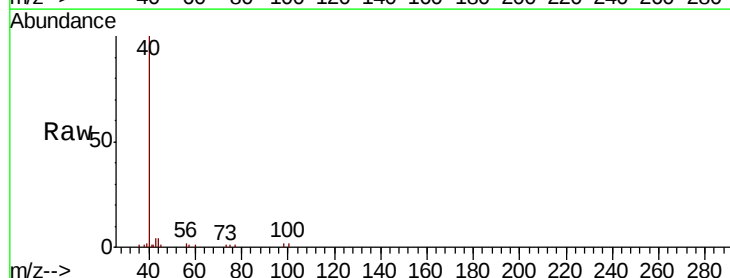
Acq: 26 Mar 2019 11:54

Tgt Ion: 75 Resp: 32

Ion Ratio Lower Upper

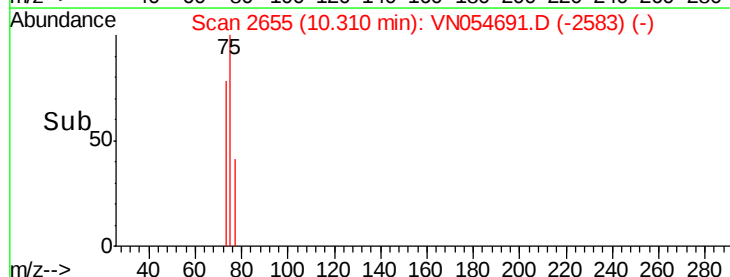
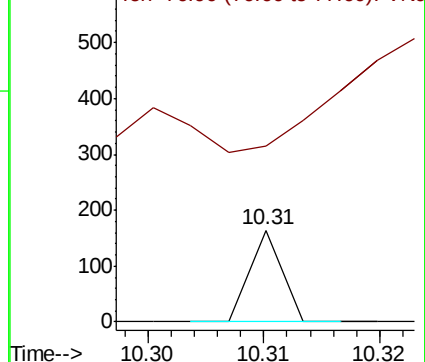
75 100

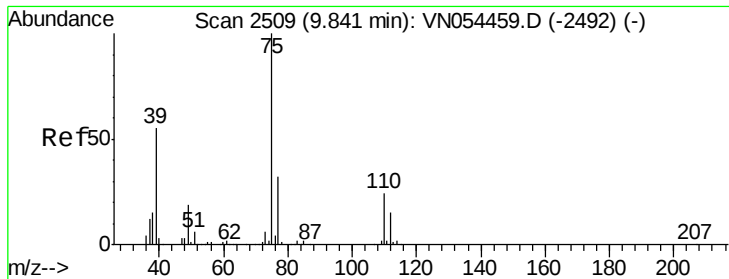
77 0.0 25.8 38.8#



Abundance Ion 74.90 (74.60 to 75.60): VN054459.D (-2662) (-)

Ion 76.90 (76.60 to 77.60): VN054459.D (-2662) (-)



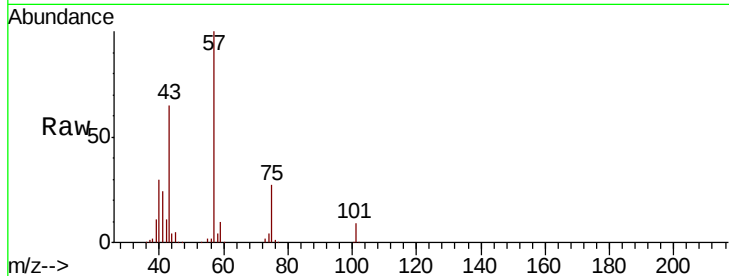


#54

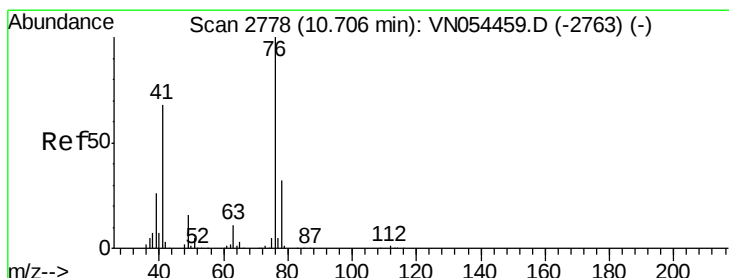
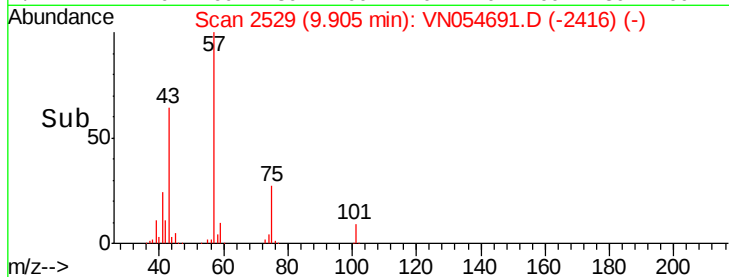
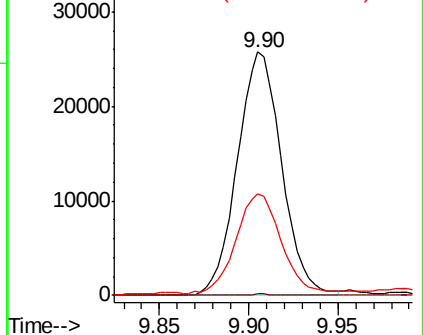
cis-1,3-Dichloropropene
 Concen: 4.966 ug/l
 RT: 9.90 min Scan# 2529
 Delta R.T. 0.06 min
 Lab File: VN054691.D
 Acq: 26 Mar 2019 11:54

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion: 75 Resp: 44575
 Ion Ratio Lower Upper
 75 100
 77 0.6 25.4 38.0#
 39 40.6 37.2 55.8



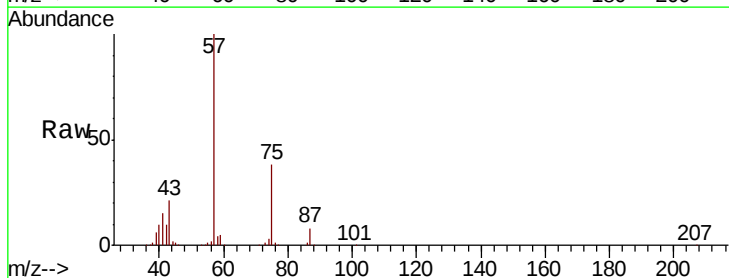
Abundance Ion 74.90 (74.60 to 75.60): VN0
 Ion 76.90 (76.60 to 77.60): VN0
 Ion 39.00 (38.70 to 39.70): VN0



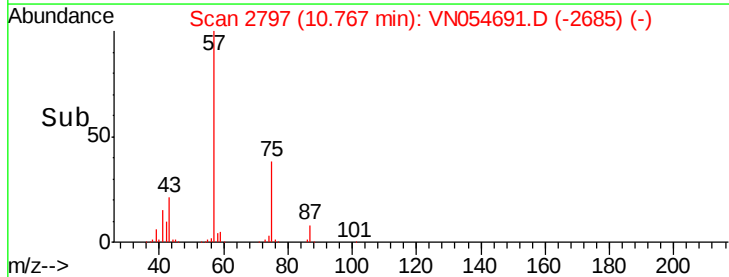
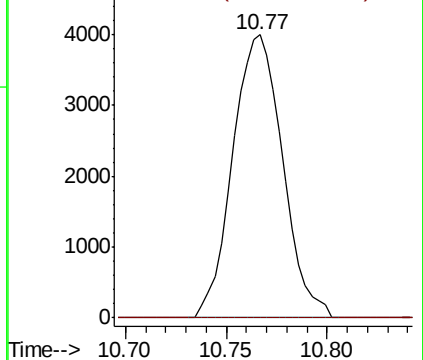
#57

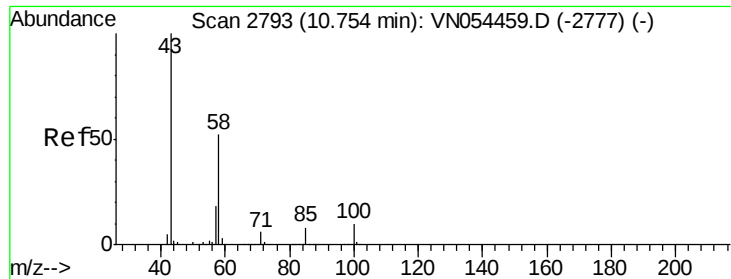
1,3-Dichloropropane
 Concen: 0.765 ug/l
 RT: 10.77 min Scan# 2797
 Delta R.T. 0.06 min
 Lab File: VN054691.D
 Acq: 26 Mar 2019 11:54

Tgt Ion: 76 Resp: 6925
 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

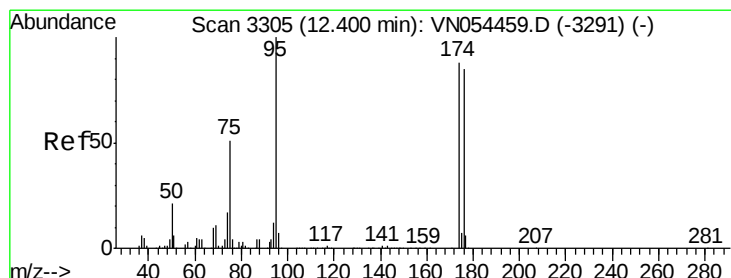
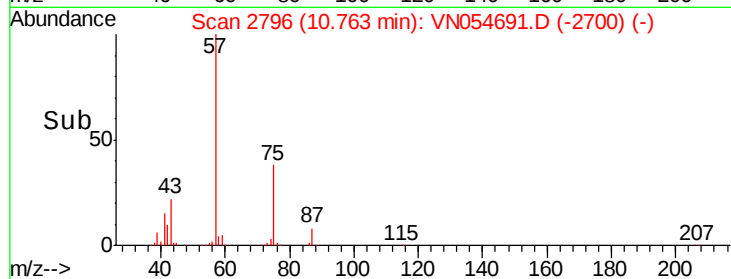
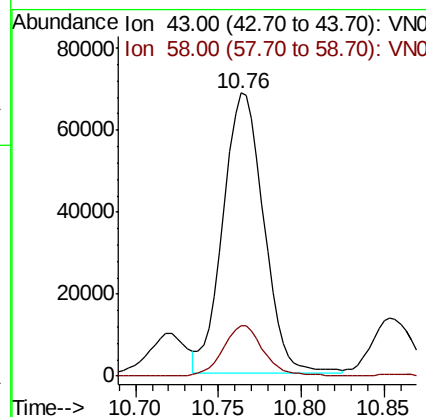
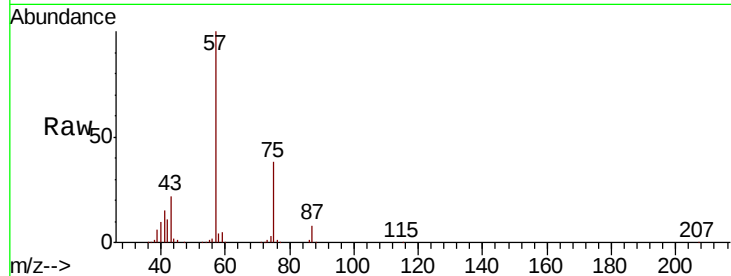




#59
2-Hexanone
Concen: 32.727 ug/l
RT: 10.76 min Scan# 2796
Delta R.T. 0.01 min
Lab File: VN054691.D
Acq: 26 Mar 2019 11:54

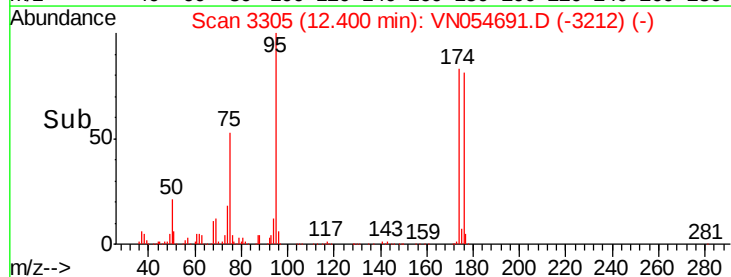
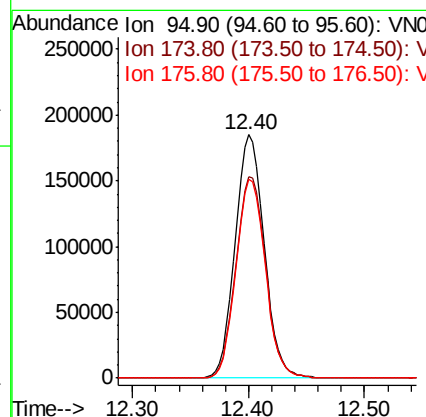
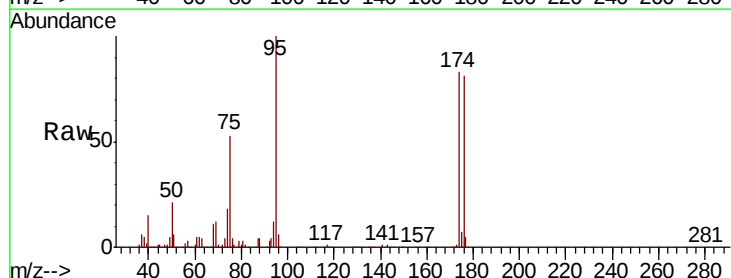
Instrument :
MSVOA_N
ClientSampleId :

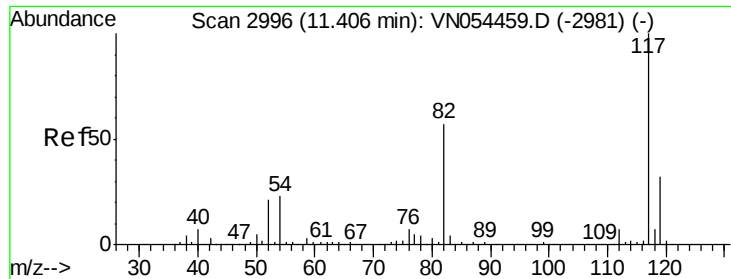
Tot Ion: 43 Resp: 117177
Ion Ratio Lower Upper
43 100
58 18.0 28.0 83.9#



#62
4-Bromofluorobenzene
Concen: 44.182 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.00 min
Lab File: VN054691.D
Acq: 26 Mar 2019 11:54

Tgt Ion: 95 Resp: 320676
Ion Ratio Lower Upper
95 100
174 84.6 0.0 191.0
176 82.4 0.0 187.4

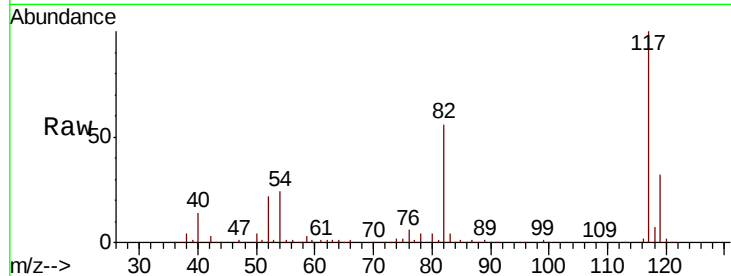




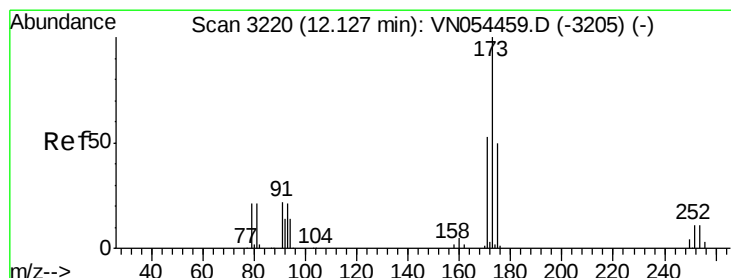
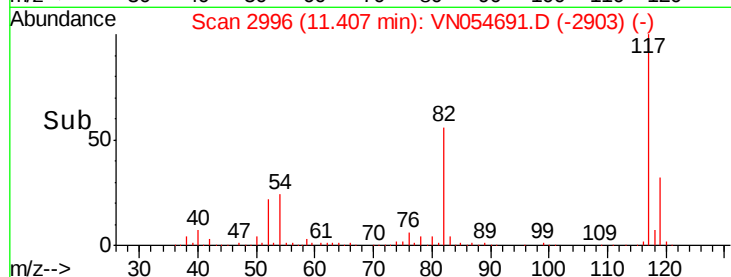
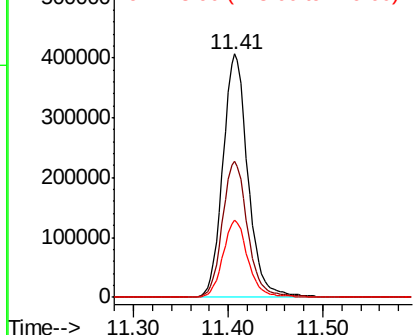
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN054691.D
Acq: 26 Mar 2019 11:54

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:117 Resp: 747552
Ion Ratio Lower Upper
117 100
82 55.8 40.0 60.0
119 31.5 25.8 38.6

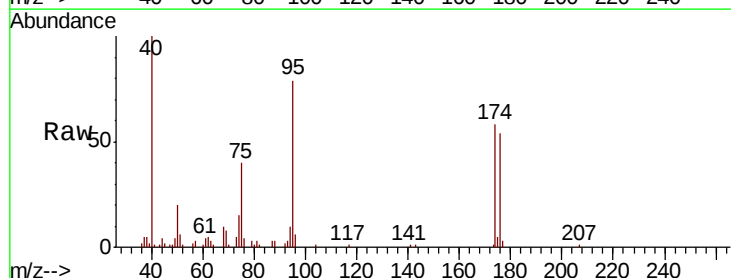


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

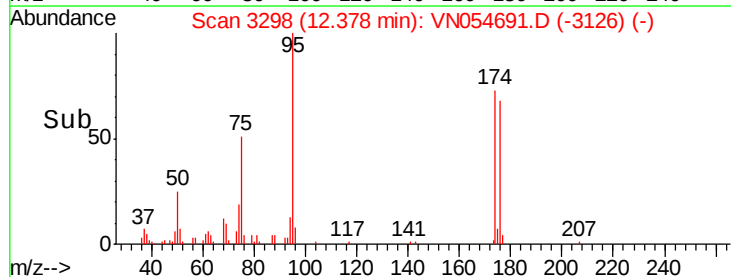
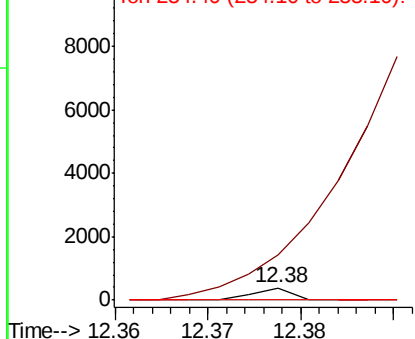


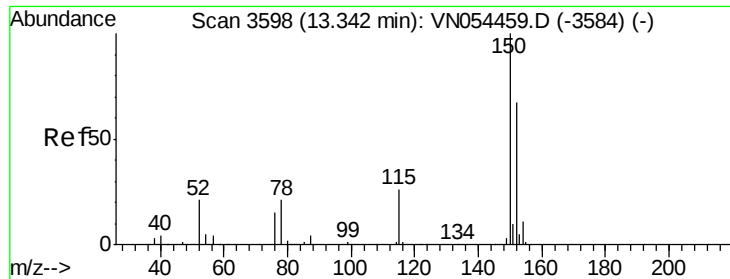
#71
Bromoform
Concen: 2.248 ug/l
RT: 12.38 min Scan# 3298
Delta R.T. 0.25 min
Lab File: VN054691.D
Acq: 26 Mar 2019 11:54

Tgt Ion:173 Resp: 110
Ion Ratio Lower Upper
173 100
175 0.0 24.4 73.2#
254 0.0 0.1 0.1#



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





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. 0.00 min

Lab File: VN054691.D

Acq: 26 Mar 2019 11:54

Instrument :

MSVOA_N

ClientSampleId :

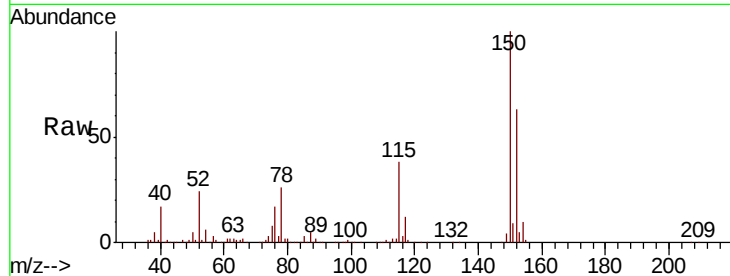
Tot Ion:152 Resp: 264691

Ion Ratio Lower Upper

152 100

115 58.9 27.2 81.6

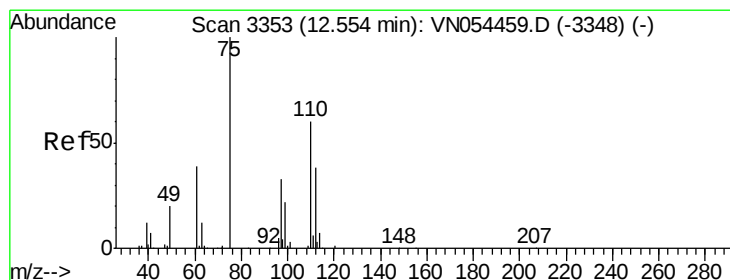
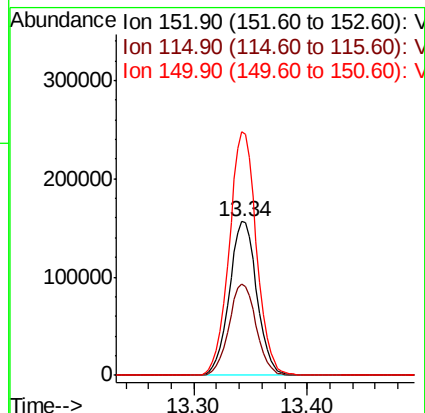
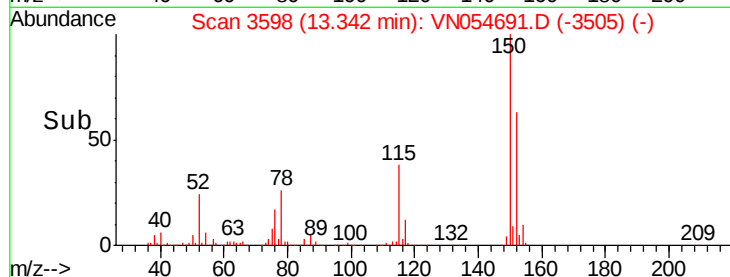
150 156.4 0.0 349.2



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



#76

1,2,3-Trichloropropane

Concen: 40.651 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN054691.D

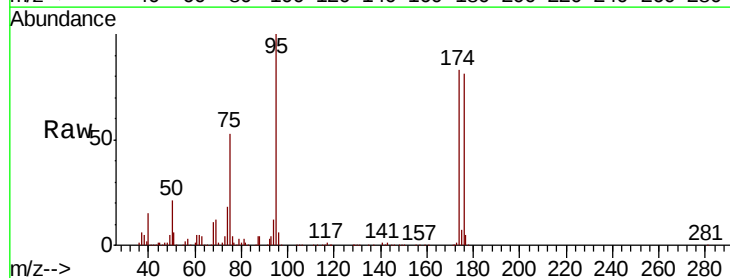
Acq: 26 Mar 2019 11:54

Tgt Ion: 75 Resp: 170745

Ion Ratio Lower Upper

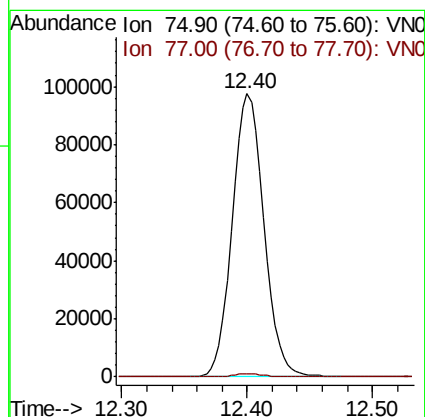
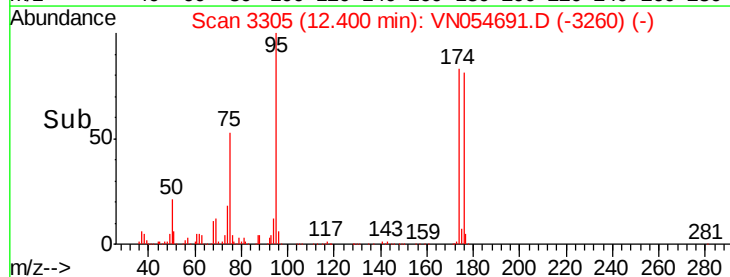
75 100

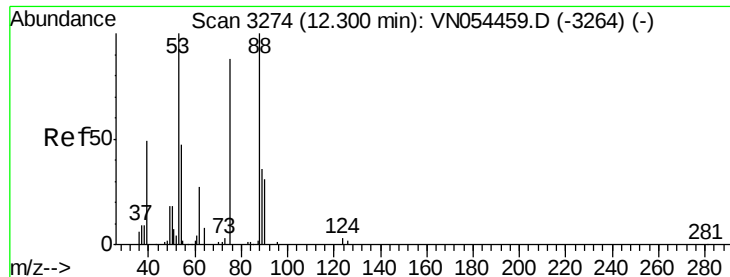
77 1.0 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#81
 trans-1,4-Dichloro-2-butene
 Concen: 134.421 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. 0.10 min
 Lab File: VN054691.D
 Acq: 26 Mar 2019 11:54

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion: 75 Resp: 170745
 Ion Ratio Lower Upper
 75 100
 53 0.0 76.2 114.2#
 89 0.0 39.2 58.8#

