

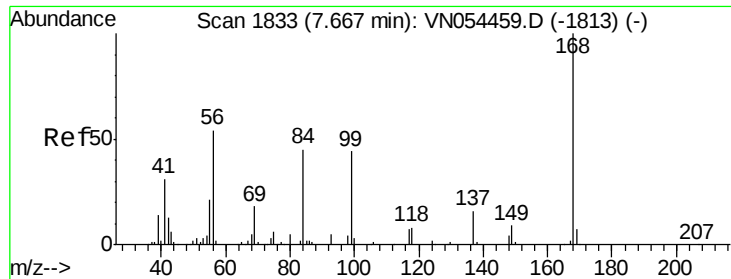
Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN032619\
 Data File : VN054695.D
 Acq On : 26 Mar 2019 13:39
 Operator : JC/SP
 Sample : K2081-25
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Mar 27 04:07:00 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	7.67	168	555024	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	887302	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	758145	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	263693	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.03	65	360124	52.16	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.32%	
35) Dibromofluoromethane	7.59	113	282085	49.35	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.70%	
50) Toluene-d8	10.09	98	1074283	49.99	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.98%	
62) 4-Bromofluorobenzene	12.40	95	327663	44.81	ug/l	0.00
Spiked Amount	50.000		Recovery	=	89.62%	
Target Compounds				Qvalue		
13) Acrolein	3.61	56	130	0.225	ug/l #	70
16) Acetone	3.82	43	11626	5.601	ug/l	93
18) Methyl Acetate	4.33	43	2252	0.487	ug/l #	55
20) Methylene Chloride	4.55	84	18216	2.977	ug/l #	81
25) 2-Butanone	6.86	43	1127	0.424	ug/l #	46
31) Cyclohexane	7.66	56	12218	Below Cal	#	14
36) 1,1-Dichloropropene	7.67	75	41682	5.024	ug/l #	47
38) Carbon Tetrachloride	7.66	117	50858	6.308	ug/l #	15
43) Isopropyl Acetate	8.17	43	15676	1.573	ug/l	100
45) 1,2-Dichloropropane	9.27	63	1469	0.231	ug/l #	43
48) Methyl methacrylate	9.18	41	8246	1.525	ug/l #	11
51) 4-Methyl-2-Pentanone	10.03	43	8889	1.609	ug/l #	36
53) t-1,3-Dichloropropene	10.10	75	308	2.267	ug/l #	1
54) cis-1,3-Dichloropropene	9.91	75	56855	6.287	ug/l #	73
57) 1,3-Dichloropropane	10.77	76	10952	1.201	ug/l #	43
59) 2-Hexanone	10.76	43	182178	50.500	ug/l #	47
71) Bromoform	12.40	173	1378	2.566	ug/l #	1
74) N-amyl acetate	11.88	43	18270	2.990	ug/l #	50
76) 1,2,3-Trichloropropane	12.40	75	170603	40.771	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	170603	134.808	ug/l #	11
95) Naphthalene	15.13	128	2610	0.277	ug/l #	87

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.00 min

Lab File: VN054695.D

Acq: 26 Mar 2019 13:39

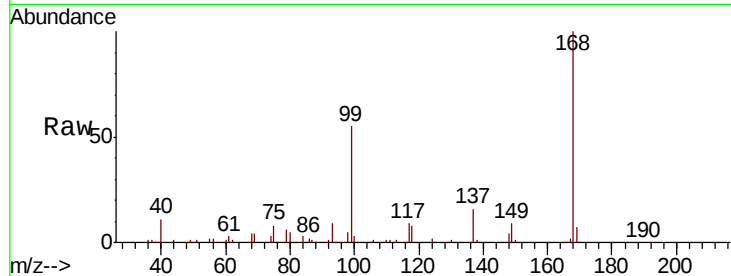
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 555024

Ion Ratio Lower Upper

168 100

99 54.8 37.1 55.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.67

250000

200000

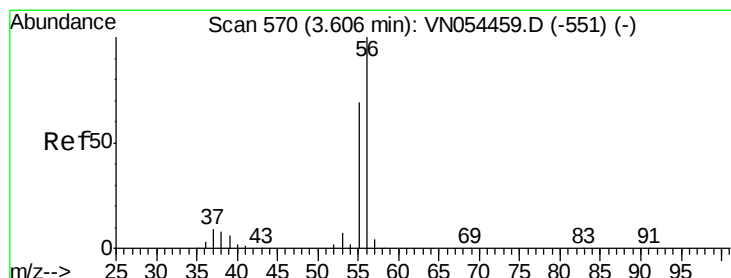
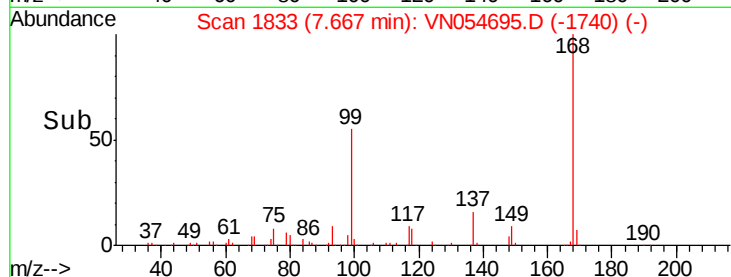
150000

100000

50000

0

Time-->



#13

Acrolein

Concen: 0.225 ug/l

RT: 3.61 min Scan# 570

Delta R.T. -0.00 min

Lab File: VN054695.D

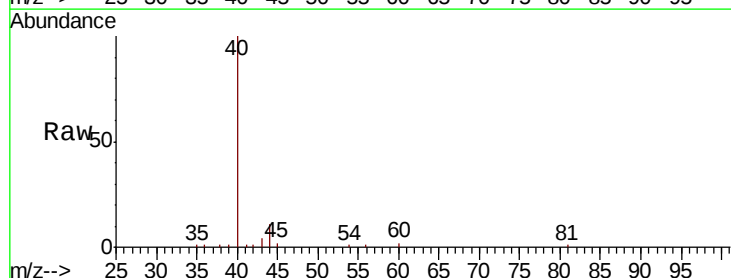
Acq: 26 Mar 2019 13:39

Tgt Ion: 56 Resp: 130

Ion Ratio Lower Upper

56 100

55 46.2 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

200

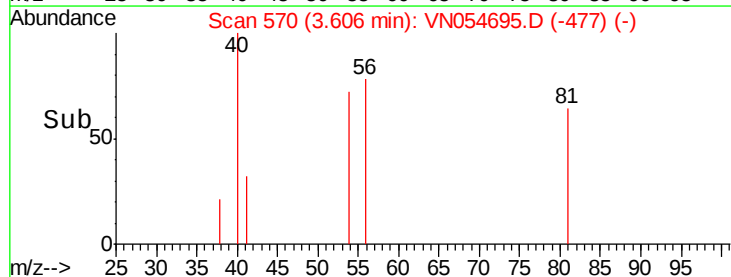
150

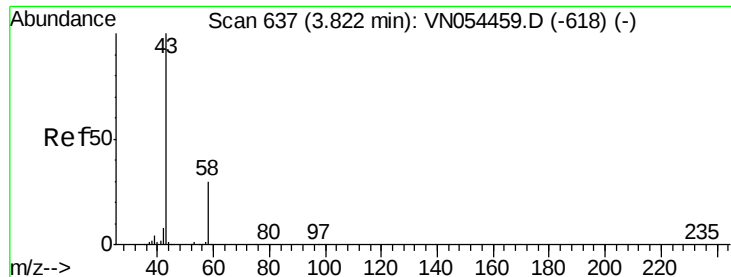
100

50

0

Time-->

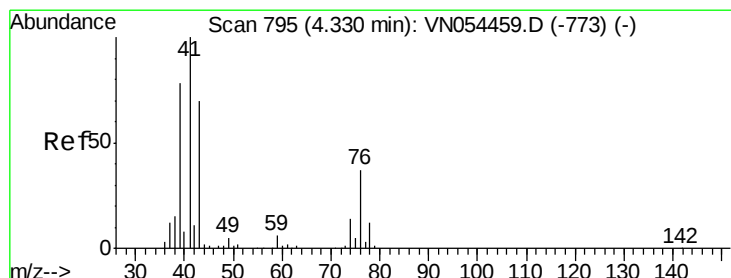
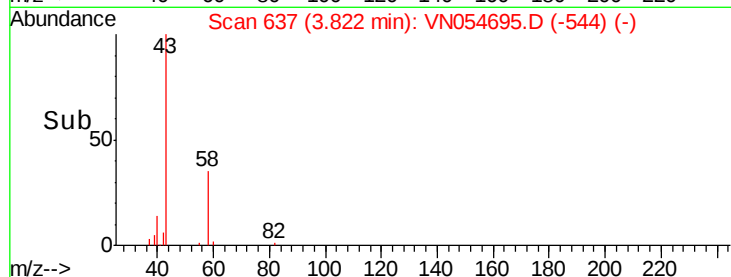
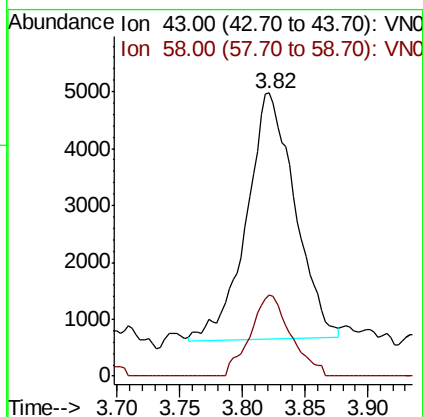
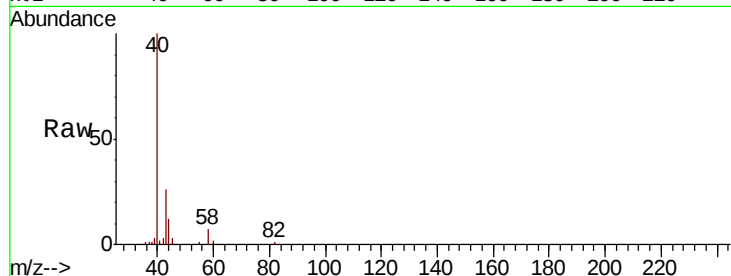




#16
Acetone
Concen: 5.601 ug/l
RT: 3.82 min Scan# 637
Delta R.T. -0.00 min
Lab File: VN054695.D
Acq: 26 Mar 2019 13:39

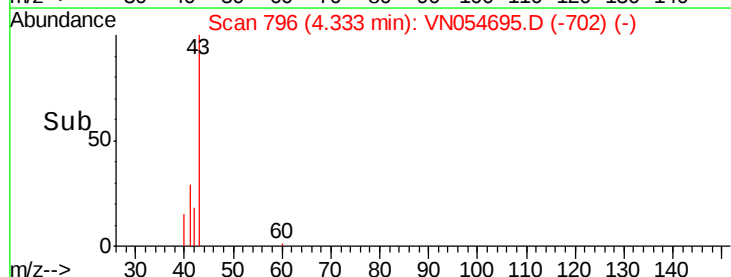
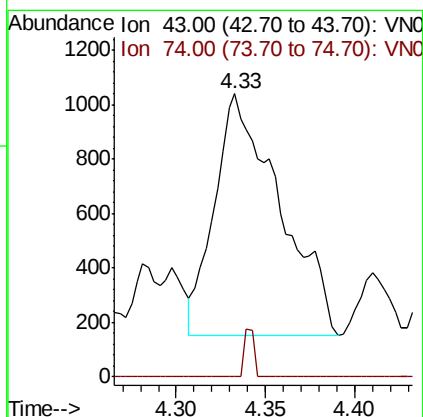
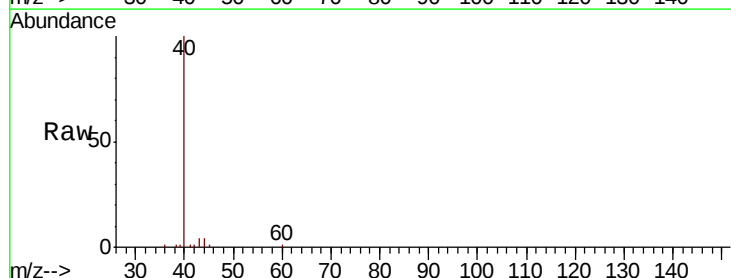
Instrument :
MSVOA_N
ClientSampled :

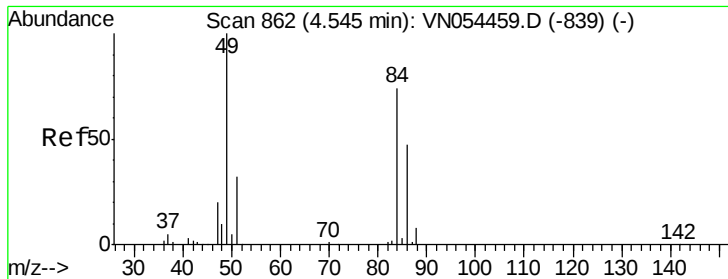
Tot Ion: 43 Resp: 11626
Ion Ratio Lower Upper
43 100
58 33.4 29.9 44.9



#18
Methyl Acetate
Concen: 0.487 ug/l
RT: 4.33 min Scan# 796
Delta R.T. 0.00 min
Lab File: VN054695.D
Acq: 26 Mar 2019 13:39

Tgt Ion: 43 Resp: 2252
Ion Ratio Lower Upper
43 100
74 3.0 20.8 31.2#

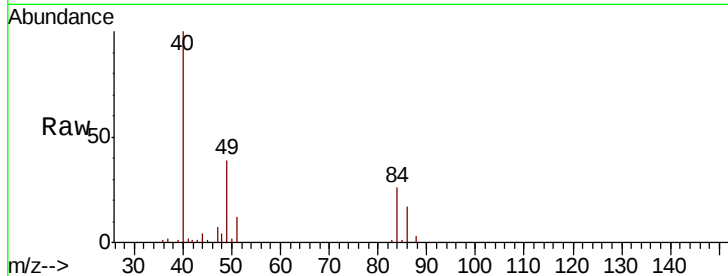




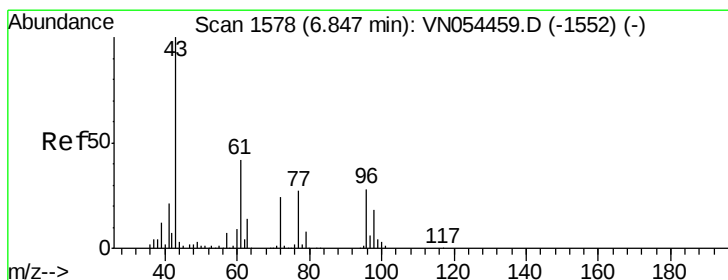
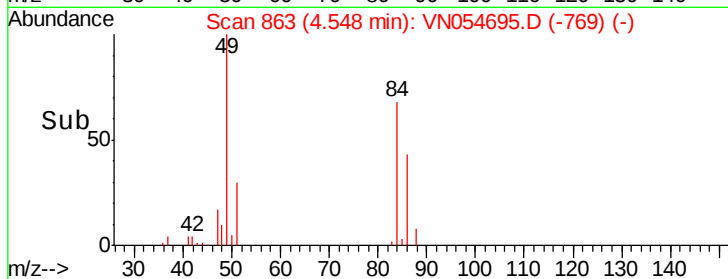
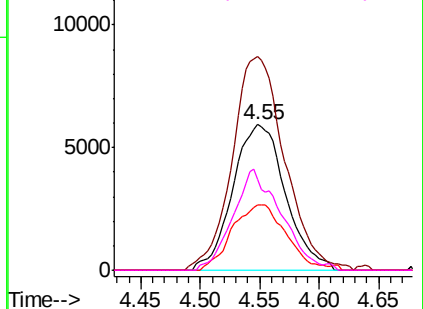
#20
Methvlene Chloride
Concen: 2.977 ug/l
RT: 4.55 min Scan# 863
Delta R.T. 0.00 min
Lab File: VN054695.D
Acq: 26 Mar 2019 13:39

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 84 Resp: 18216
Ion Ratio Lower Upper
84 100
49 143.9 89.7 134.5#
51 44.4 28.2 42.4#
86 62.6 50.8 76.2

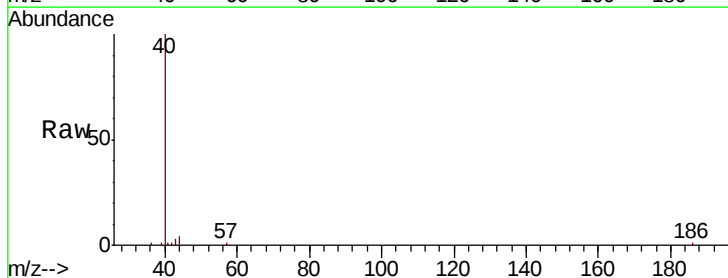


Abundance Ion 83.90 (83.60 to 84.60): VNO
Ion 48.90 (48.60 to 49.60): VNO
Ion 50.90 (50.60 to 51.60): VNO
Ion 85.90 (85.60 to 86.60): VNO

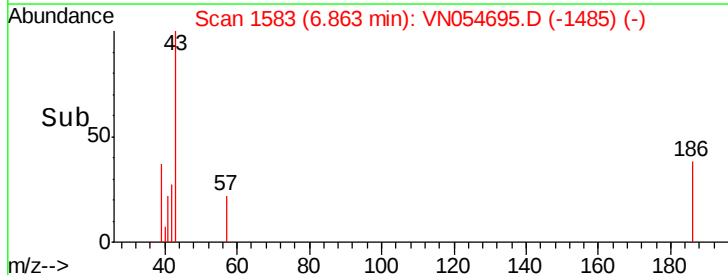
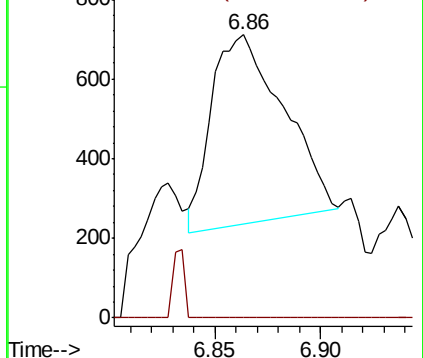


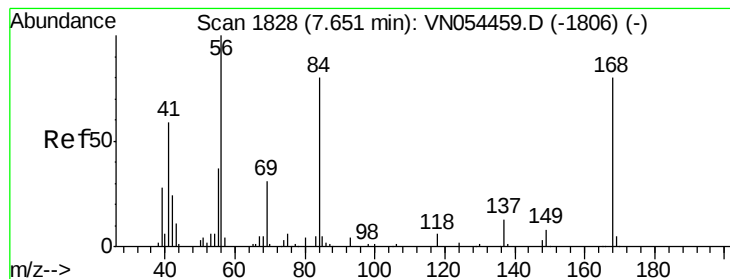
#25
2-Butanone
Concen: 0.424 ug/l
RT: 6.86 min Scan# 1583
Delta R.T. 0.02 min
Lab File: VN054695.D
Acq: 26 Mar 2019 13:39

Tgt Ion: 43 Resp: 1127
Ion Ratio Lower Upper
43 100
72 0.0 23.0 34.6#



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





#31

Cyclohexane

Concen: Below Cal

RT: 7.66 min Scan# 1832

Delta R.T. 0.01 min

Lab File: VN054695.D

Acq: 26 Mar 2019 13:39

Instrument :
MSVOA_N
ClientSampleId :

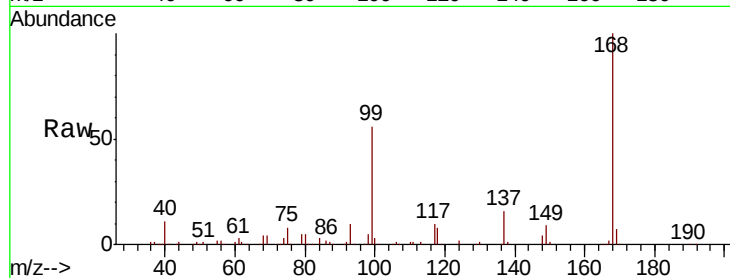
Tot Ion: 56 Resp: 12218

Ion Ratio Lower Upper

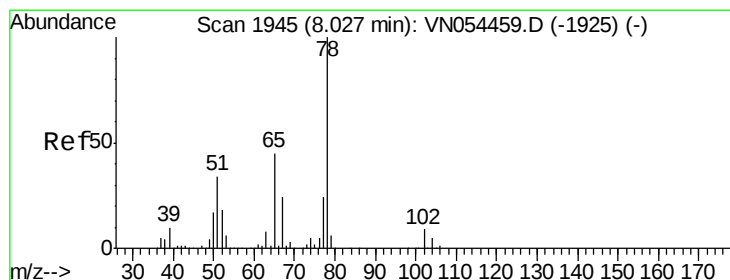
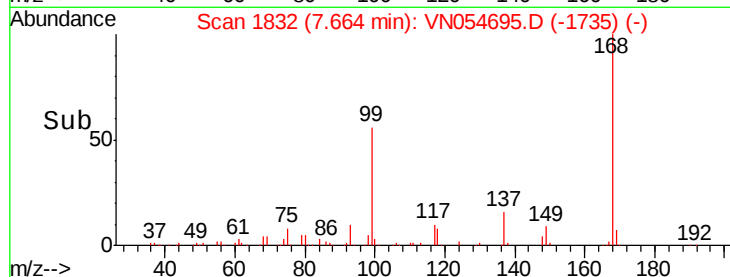
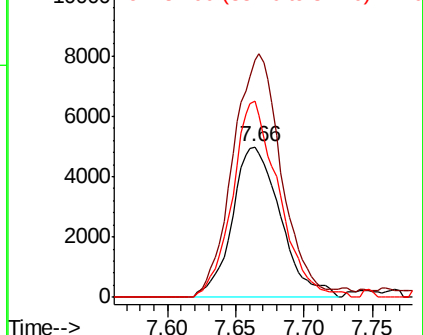
56 100

69 157.7 27.8 41.6#

84 130.9 74.6 111.8#



Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0



#33

1,2-Dichloroethane-d4

Concen: 52.165 ug/l

RT: 8.03 min Scan# 1945

Delta R.T. -0.00 min

Lab File: VN054695.D

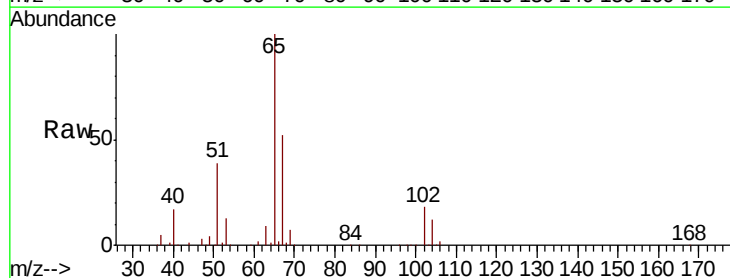
Acq: 26 Mar 2019 13:39

Tgt Ion: 65 Resp: 360124

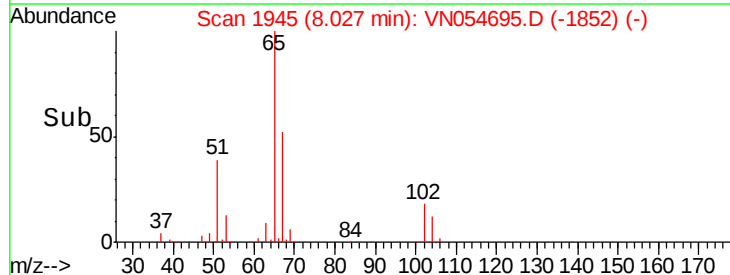
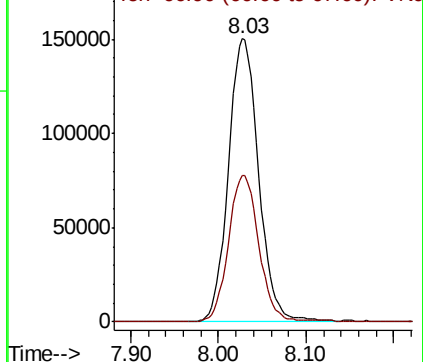
Ion Ratio Lower Upper

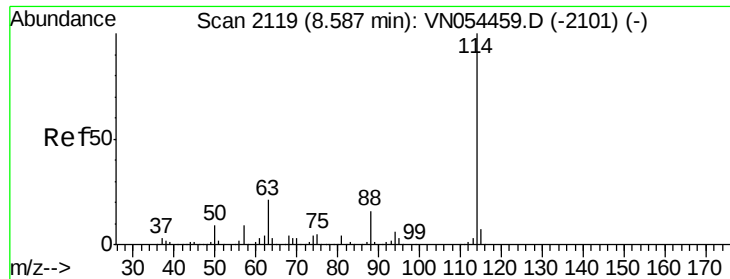
65 100

67 52.3 0.0 104.6



Abundance Ion 64.90 (64.60 to 65.60): VN0
Ion 66.90 (66.60 to 67.60): VN0

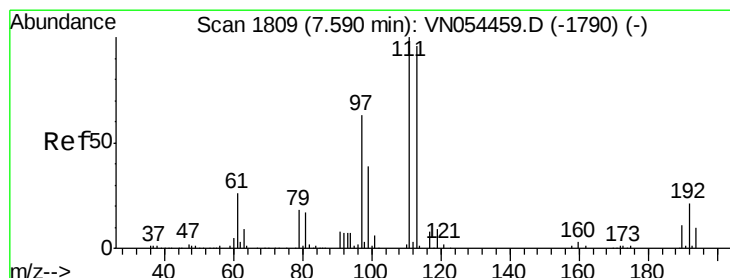
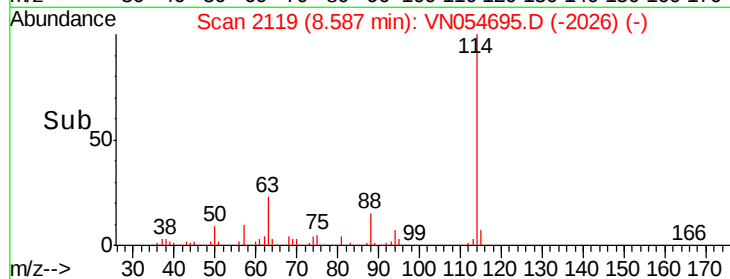
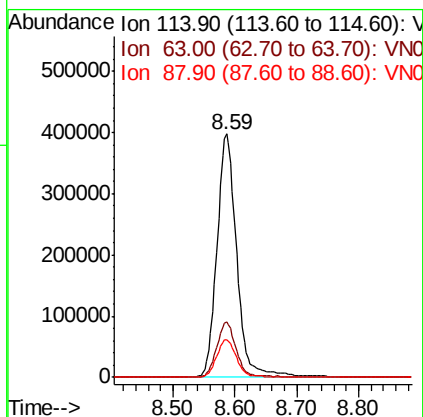
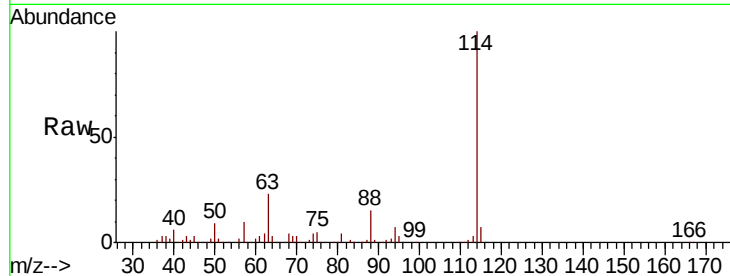




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. -0.00 min
 Lab File: VN054695.D
 Acq: 26 Mar 2019 13:39

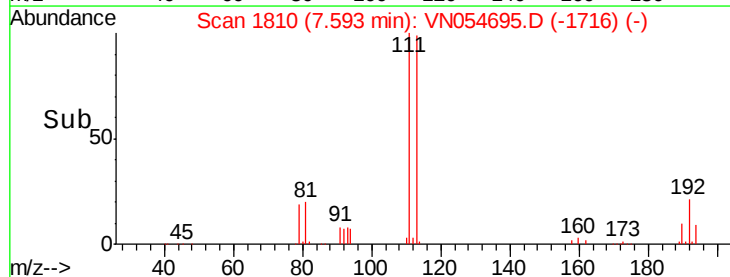
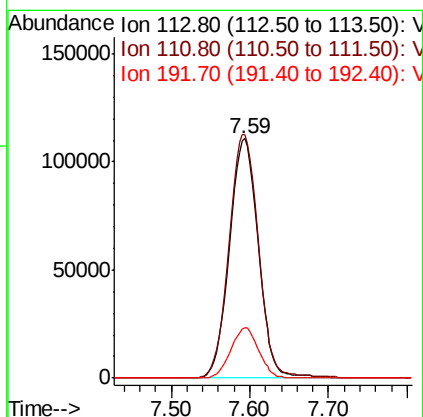
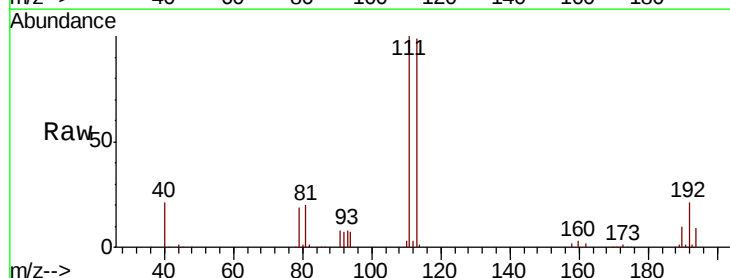
Instrument :
 MSVOA_N
 ClientSampled :

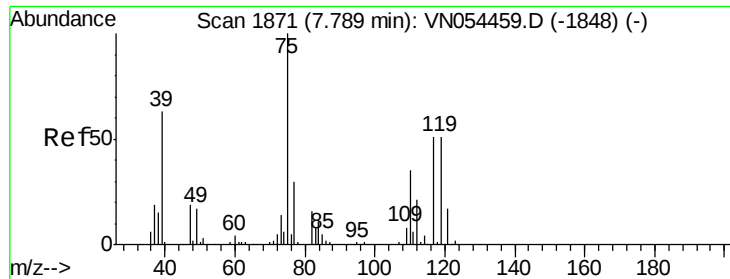
Tot Ion:114 Resp: 887302
 Ion Ratio Lower Upper
 114 100
 63 22.6 0.0 35.2
 88 15.5 0.0 30.2



#35
 Dibromofluoromethane
 Concen: 49.346 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN054695.D
 Acq: 26 Mar 2019 13:39

Tgt Ion:113 Resp: 282085
 Ion Ratio Lower Upper
 113 100
 111 103.4 82.2 123.4
 192 20.5 19.2 28.8





#36

1,1-Dichloropropene

Concen: 5.024 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.12 min

Lab File: VN054695.D

Acq: 26 Mar 2019 13:39

Instrument :

MSVOA_N

ClientSampleId :

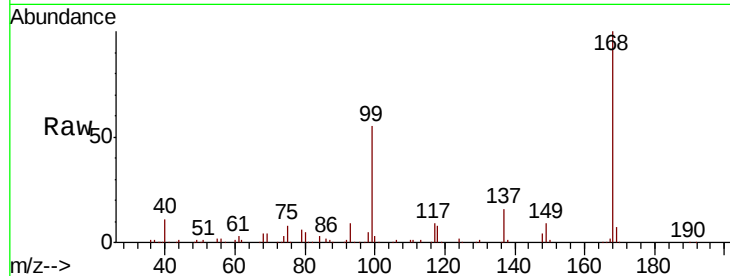
Tot Ion: 75 Resp: 41682

Ion Ratio Lower Upper

75 100

110 8.1 19.1 57.5#

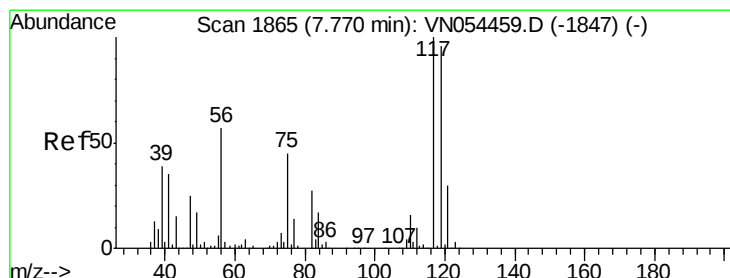
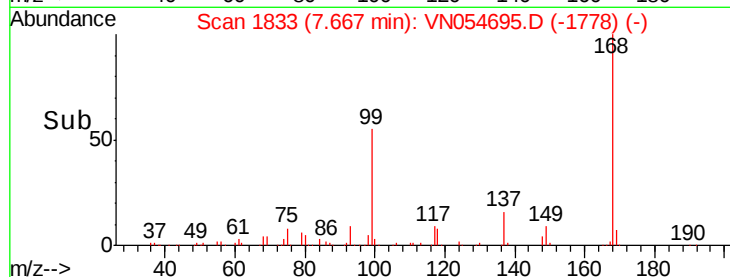
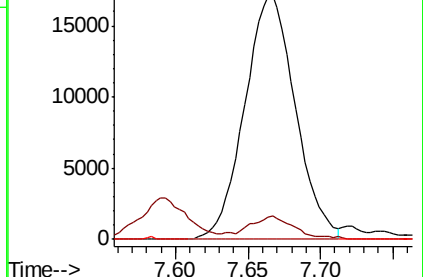
77 0.0 25.0 37.4#



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) (-)



#38

Carbon Tetrachloride

Concen: 6.308 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.11 min

Lab File: VN054695.D

Acq: 26 Mar 2019 13:39

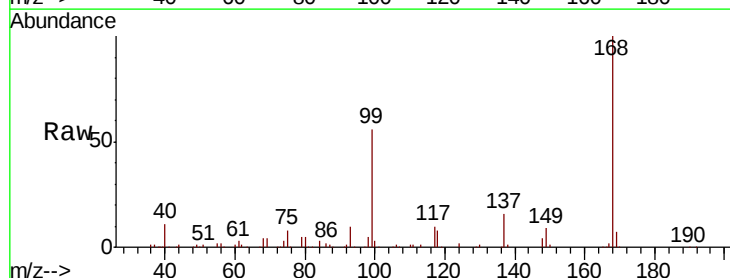
Tgt Ion: 117 Resp: 50858

Ion Ratio Lower Upper

117 100

119 3.6 76.3 114.5#

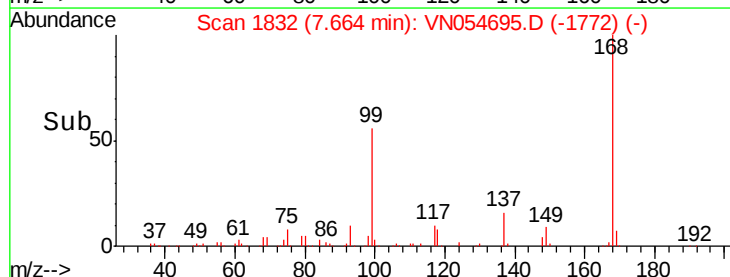
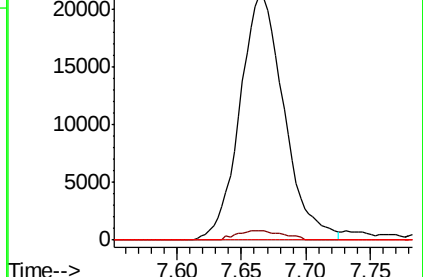
121 0.0 24.6 36.8#

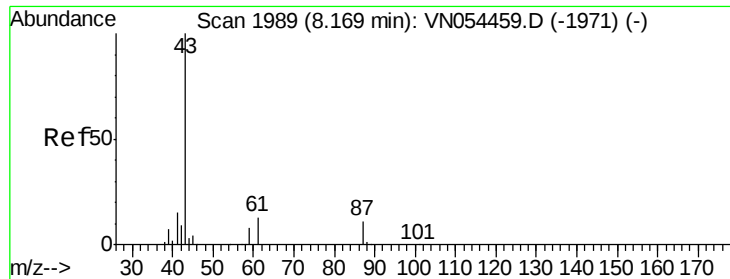


Abundance Ion 116.80 (116.50 to 117.50): VN054459.D (-1847) (-)

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

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





#43

Isopropyl Acetate

Concen: 1.573 ug/l

RT: 8.17 min Scan# 1989

Delta R.T. -0.00 min

Lab File: VN054695.D

Acq: 26 Mar 2019 13:39

Instrument :

MSVOA_N

ClientSampleId :

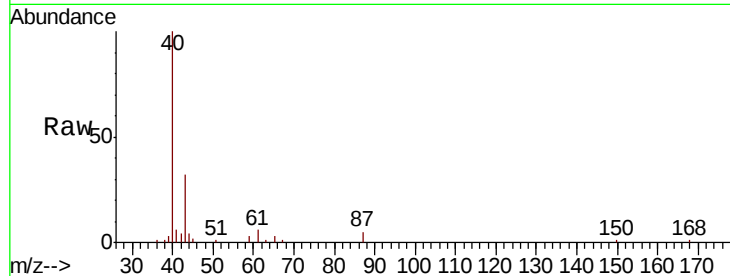
Tot Ion: 43 Resp: 15676

Ion Ratio Lower Upper

43 100

61 19.9 15.8 23.8

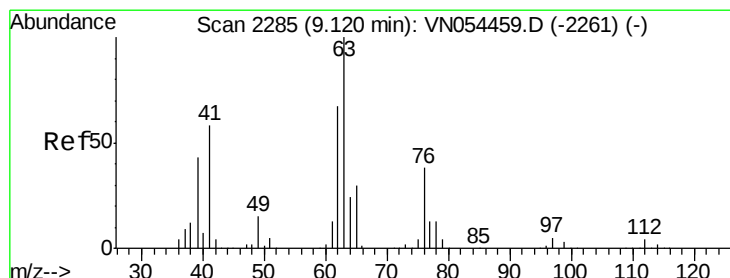
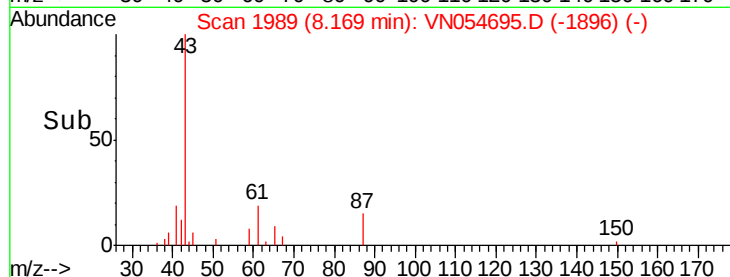
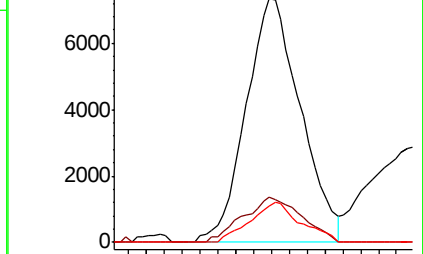
87 15.2 12.0 18.0



Abundance Ion 43.00 (42.70 to 43.70): VN054459.D (-1971) (-)

Ion 61.00 (60.70 to 61.70): VN054459.D (-1971) (-)

Ion 87.00 (86.70 to 87.70): VN054459.D (-1971) (-)



#45

1,2-Dichloropropane

Concen: 0.231 ug/l

RT: 9.27 min Scan# 2331

Delta R.T. 0.15 min

Lab File: VN054695.D

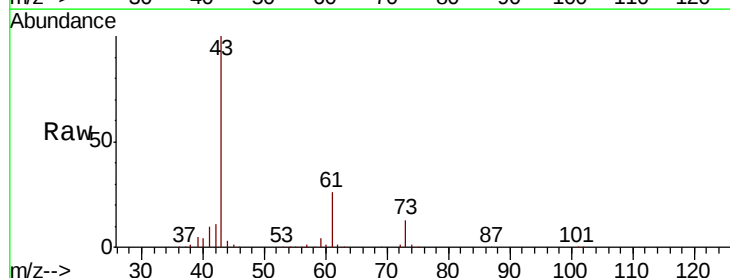
Acq: 26 Mar 2019 13:39

Tgt Ion: 63 Resp: 1469

Ion Ratio Lower Upper

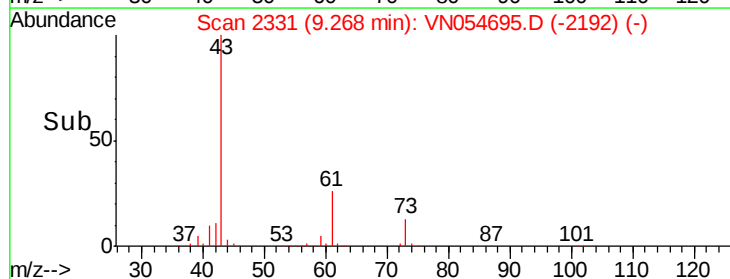
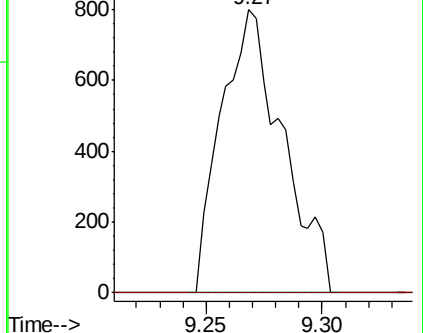
63 100

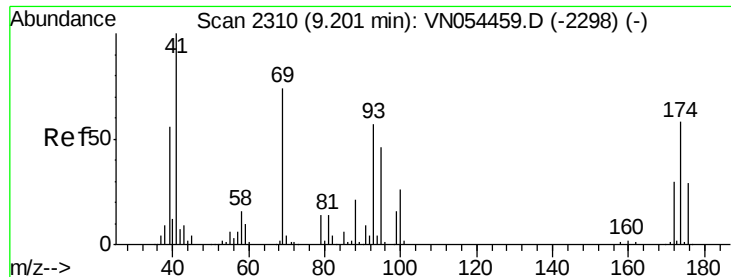
65 0.0 25.0 37.6#



Abundance Ion 62.90 (62.60 to 63.60): VN054459.D (-2261) (-)

Ion 64.90 (64.60 to 65.60): VN054459.D (-2261) (-)

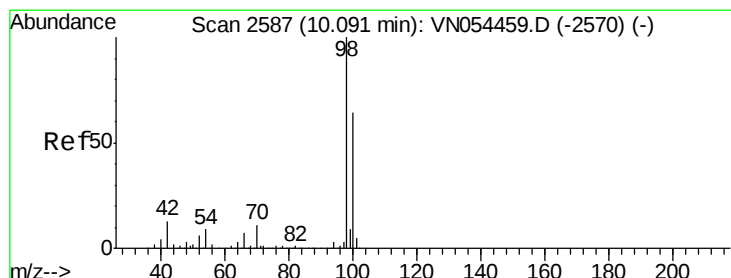
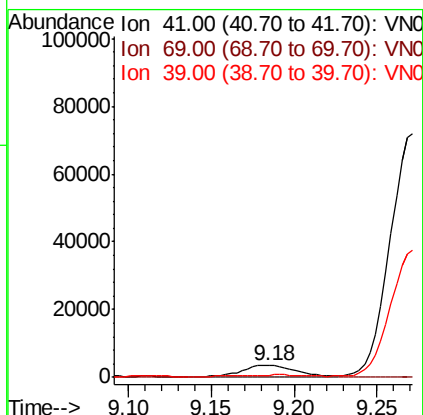
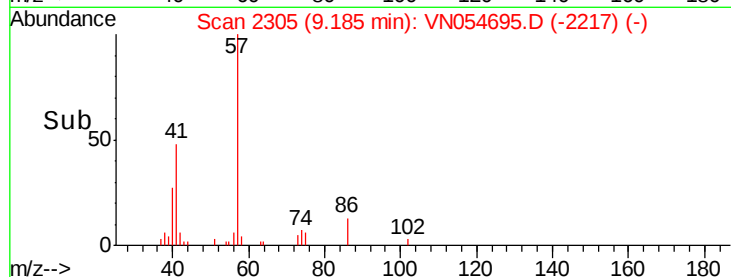
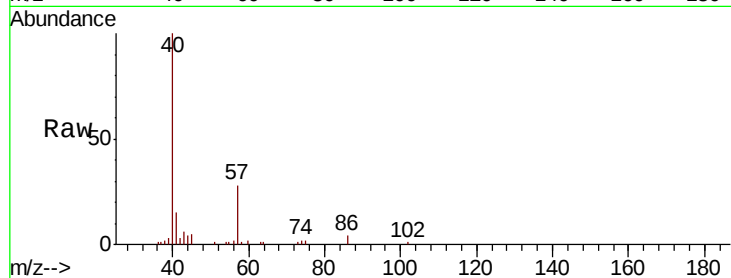




#48
Methvl methacrylate
Concen: 1.525 ug/l
RT: 9.18 min Scan# 2305
Delta R.T. -0.02 min
Lab File: VN054695.D
Acq: 26 Mar 2019 13:39

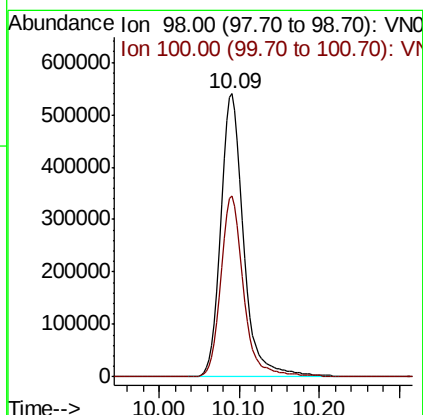
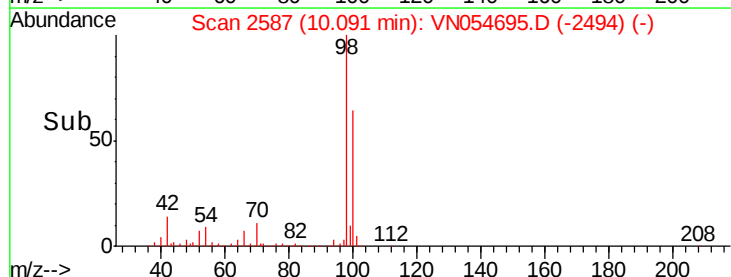
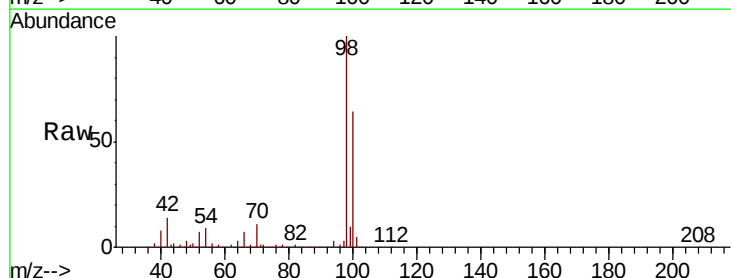
Instrument :
MSVOA_N
ClientSampled :

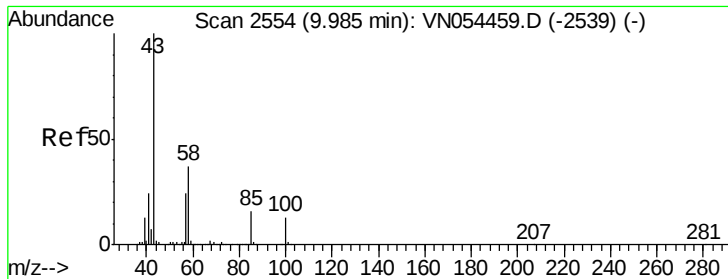
Tot Ion: 41 Resp: 8246
Ion Ratio Lower Upper
41 100
69 0.0 72.6 108.8#
39 0.0 47.5 71.3#



#50
Toluene-d8
Concen: 49.989 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. -0.00 min
Lab File: VN054695.D
Acq: 26 Mar 2019 13:39

Tgt Ion: 98 Resp: 1074283
Ion Ratio Lower Upper
98 100
100 64.0 51.2 76.8





#51

4-Methyl-2-Pentanone

Concen: 1.609 ug/l

RT: 10.03 min Scan# 2567

Delta R.T. 0.04 min

Lab File: VN054695.D

Acq: 26 Mar 2019 13:39

Instrument :

MSVOA_N

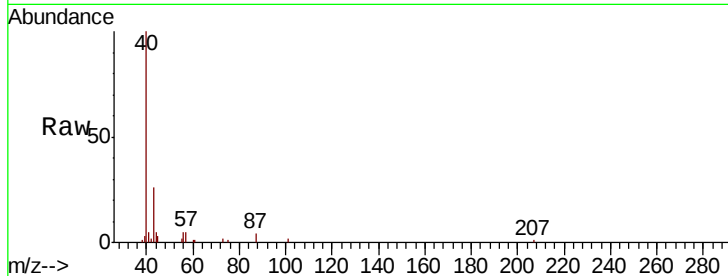
ClientSampled :

Tot Ion: 43 Resp: 8889

Ion Ratio Lower Upper

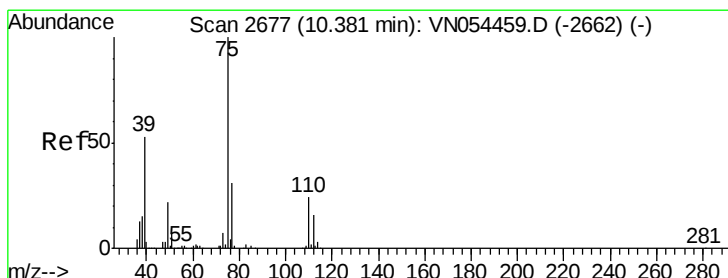
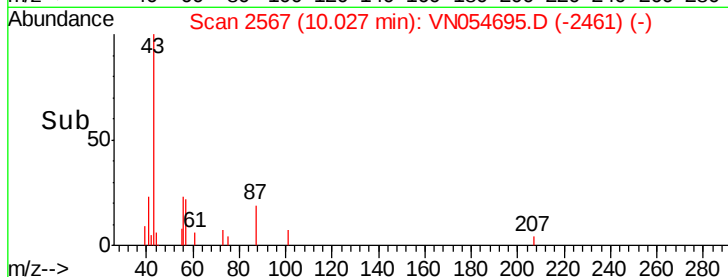
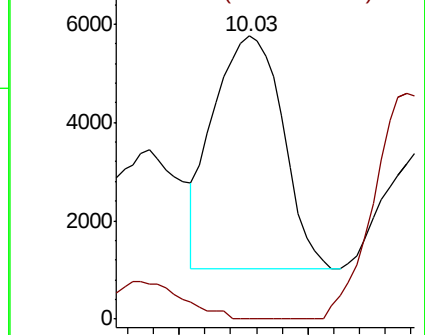
43 100

58 0.0 31.8 47.6#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#53

t-1,3-Dichloropropene

Concen: 2.267 ug/l

RT: 10.10 min Scan# 2589

Delta R.T. -0.28 min

Lab File: VN054695.D

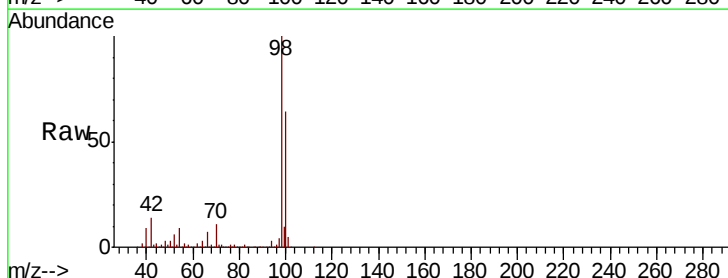
Acq: 26 Mar 2019 13:39

Tgt Ion: 75 Resp: 308

Ion Ratio Lower Upper

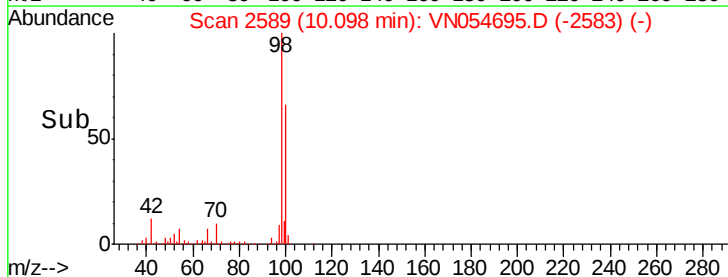
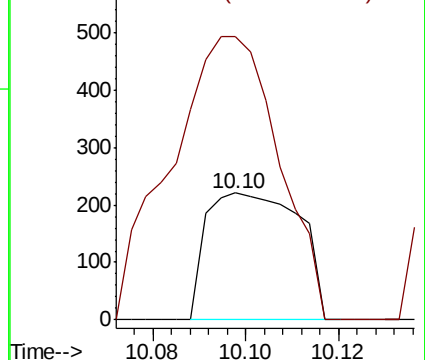
75 100

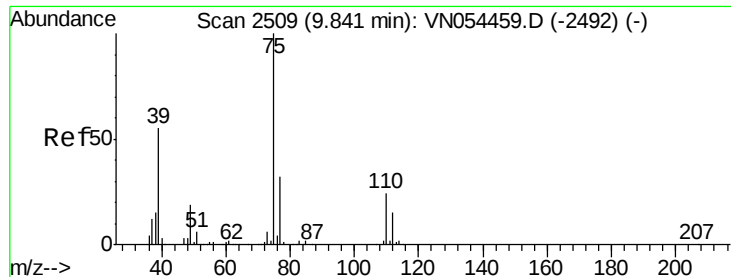
77 223.1 25.8 38.8#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0



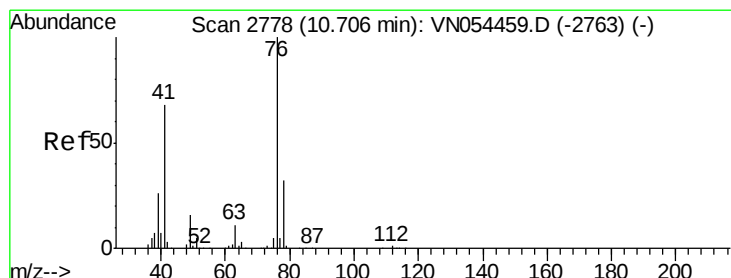
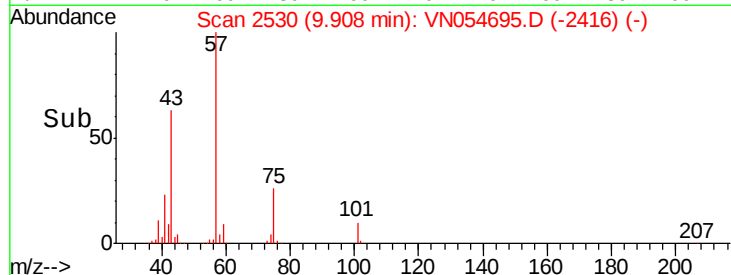
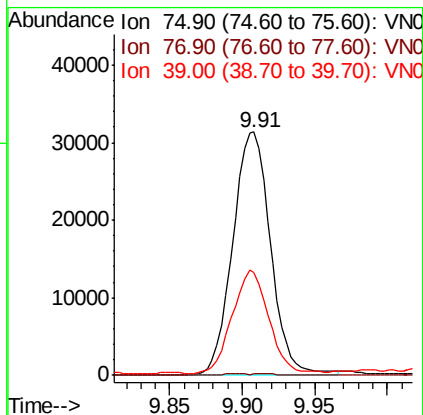
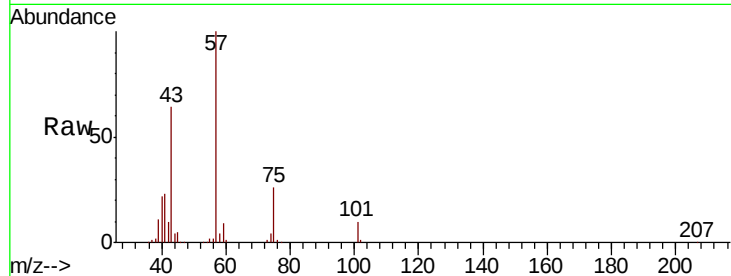


#54

cis-1,3-Dichloropropene
 Concen: 6.287 ug/l
 RT: 9.91 min Scan# 2530
 Delta R.T. 0.07 min
 Lab File: VN054695.D
 Acq: 26 Mar 2019 13:39

Instrument :
 MSVOA_N
 ClientSampled :

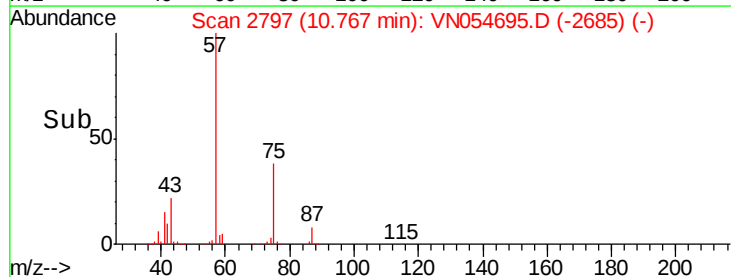
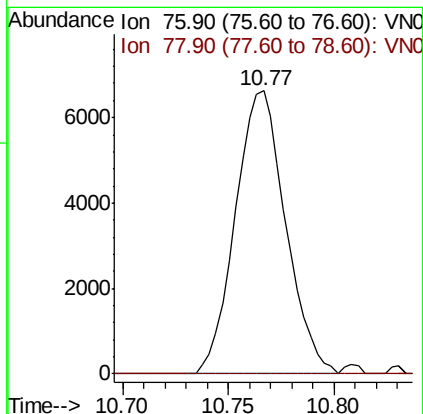
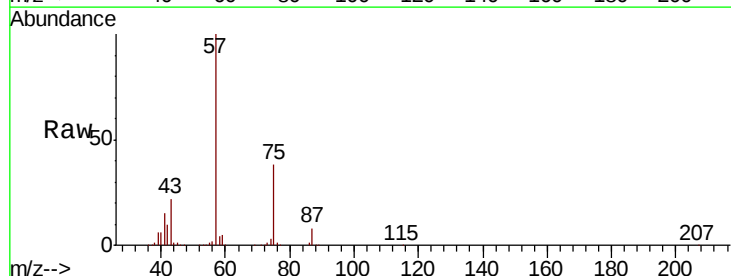
Tot Ion	Ratio	Lower	Upper
75	100		
77	0.5	25.4	38.0#
39	41.9	37.2	55.8

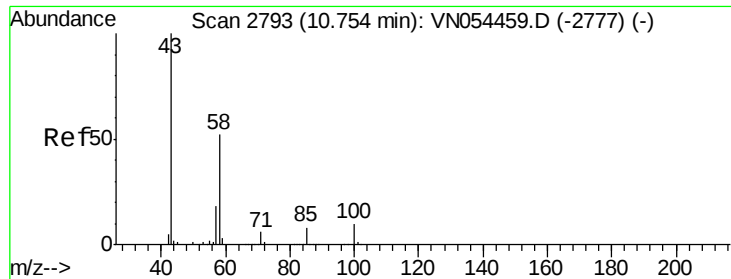


#57

1,3-Dichloropropane
 Concen: 1.201 ug/l
 RT: 10.77 min Scan# 2797
 Delta R.T. 0.06 min
 Lab File: VN054695.D
 Acq: 26 Mar 2019 13:39

Tgt Ion	Ratio	Lower	Upper
76	100		
78	0.0	25.7	38.5#

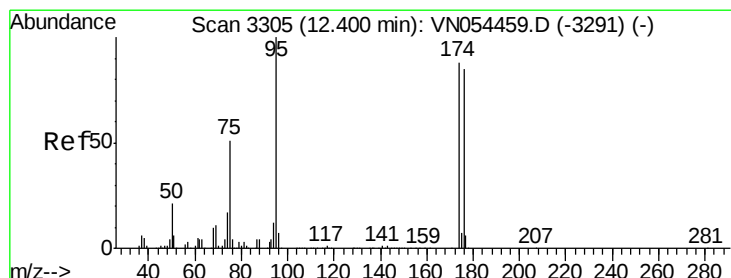
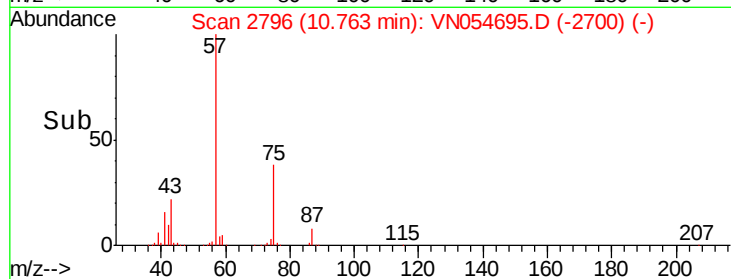
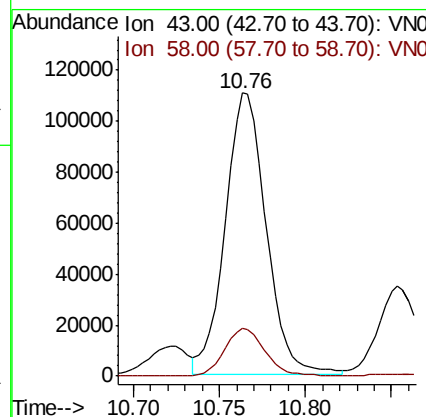
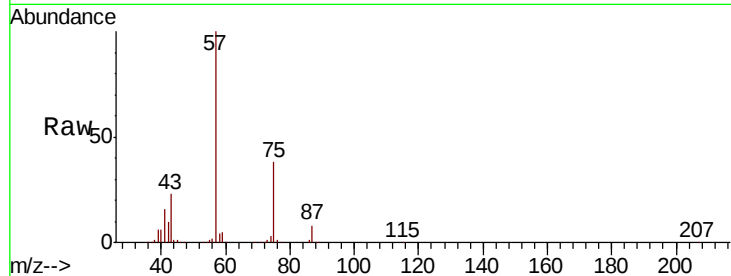




#59
2-Hexanone
Concen: 50.500 ug/l
RT: 10.76 min Scan# 2796
Delta R.T. 0.01 min
Lab File: VN054695.D
Acq: 26 Mar 2019 13:39

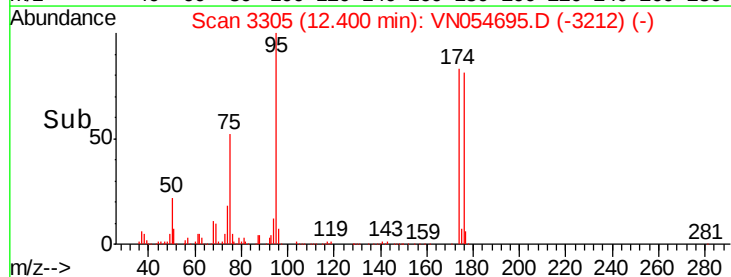
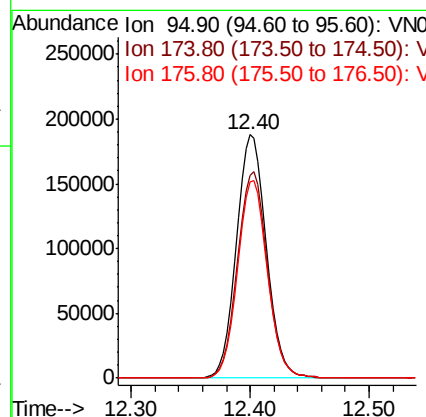
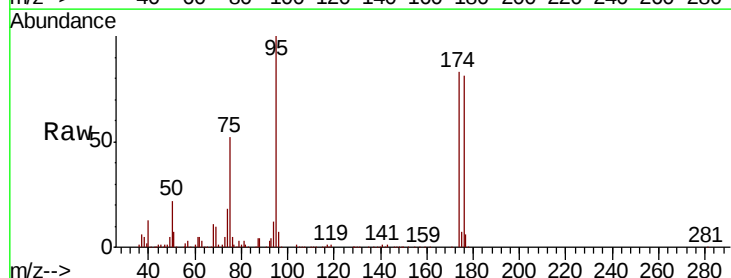
Instrument :
MSVOA_N
ClientSampled :

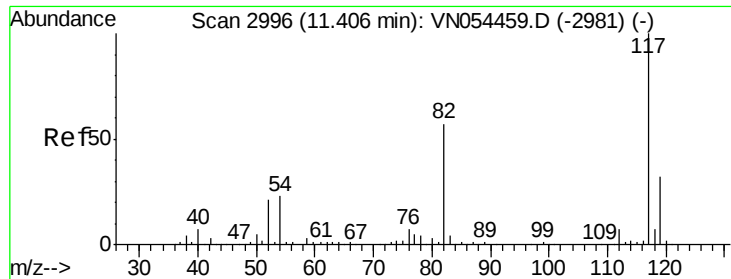
Tot Ion: 43 Resp: 182178
Ion Ratio Lower Upper
43 100
58 16.9 28.0 83.9#



#62
4-Bromofluorobenzene
Concen: 44.807 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. -0.00 min
Lab File: VN054695.D
Acq: 26 Mar 2019 13:39

Tgt Ion: 95 Resp: 327663
Ion Ratio Lower Upper
95 100
174 85.1 0.0 191.0
176 81.1 0.0 187.4

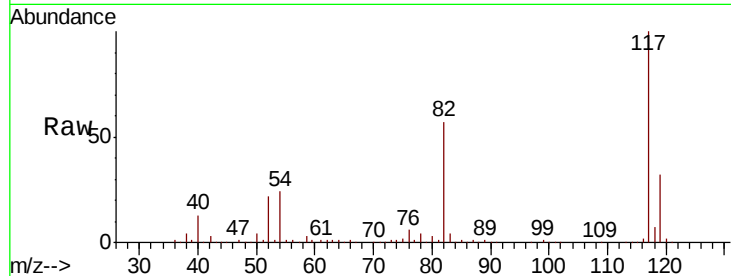




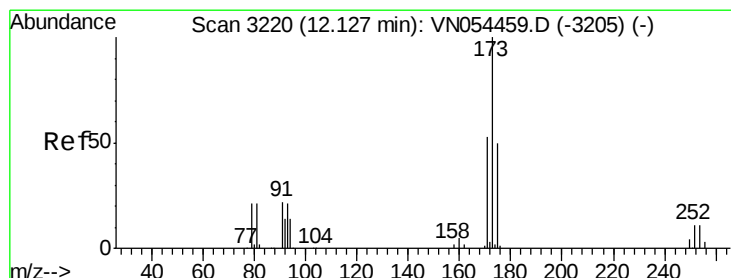
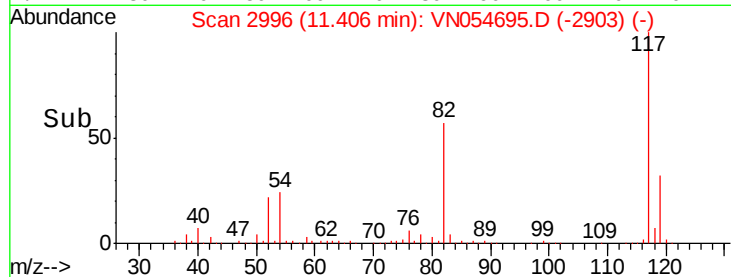
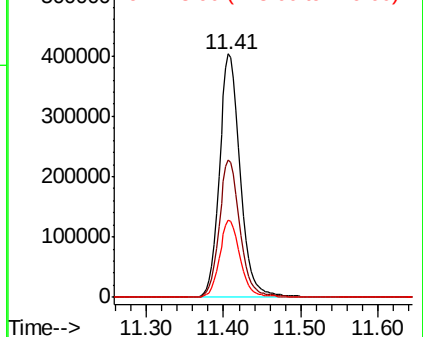
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN054695.D
Acq: 26 Mar 2019 13:39

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:117 Resp: 758145
Ion Ratio Lower Upper
117 100
82 56.6 40.0 60.0
119 31.5 25.8 38.6

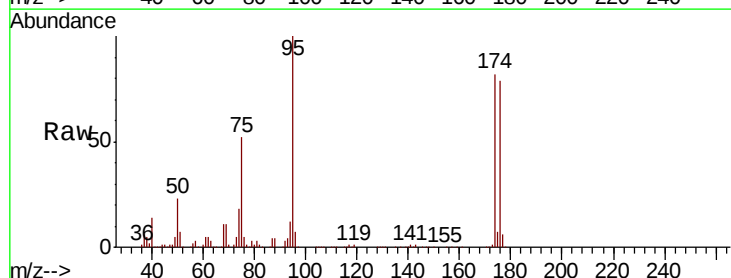


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

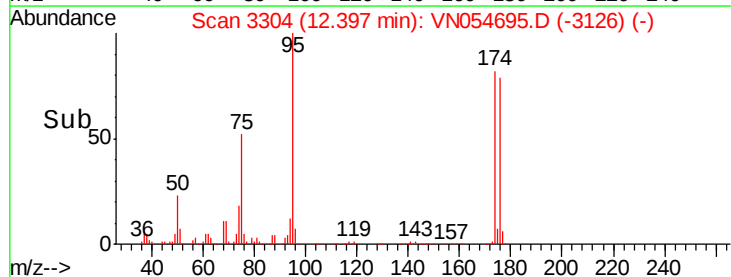
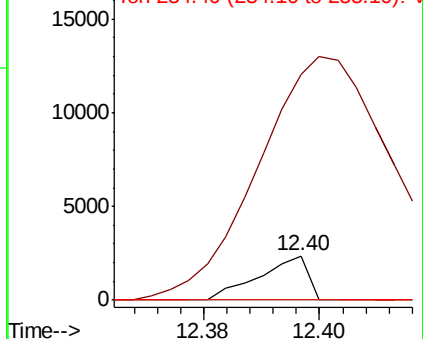


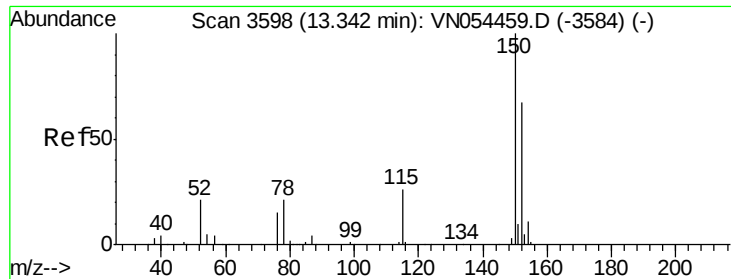
#71
Bromoform
Concen: 2.566 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. 0.27 min
Lab File: VN054695.D
Acq: 26 Mar 2019 13:39

Tgt Ion:173 Resp: 1378
Ion Ratio Lower Upper
173 100
175 1348.0 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



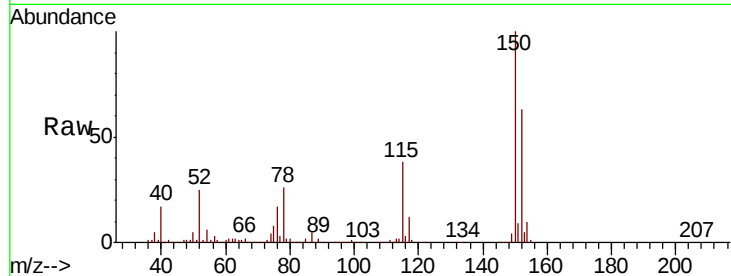


#72

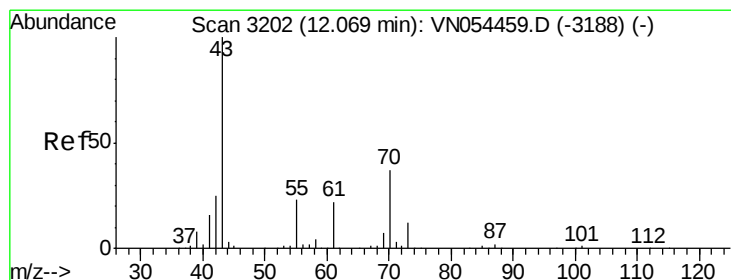
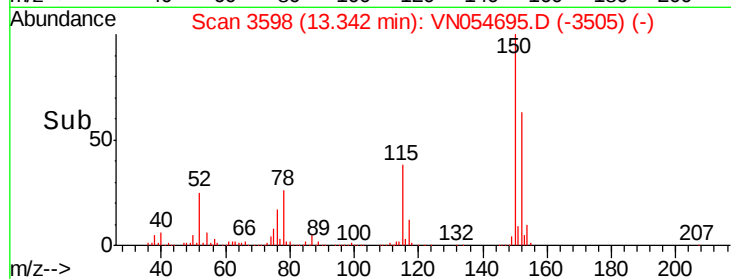
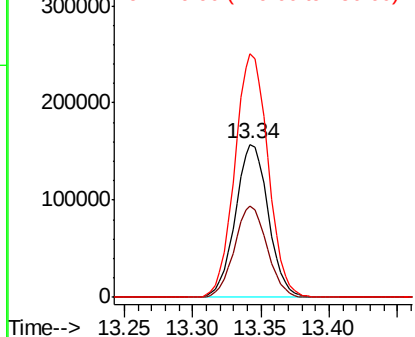
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3598
Delta R.T. -0.00 min
Lab File: VN054695.D
Acq: 26 Mar 2019 13:39

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:152 Resp: 263693
Ion Ratio Lower Upper
152 100
115 59.0 27.2 81.6
150 160.7 0.0 349.2



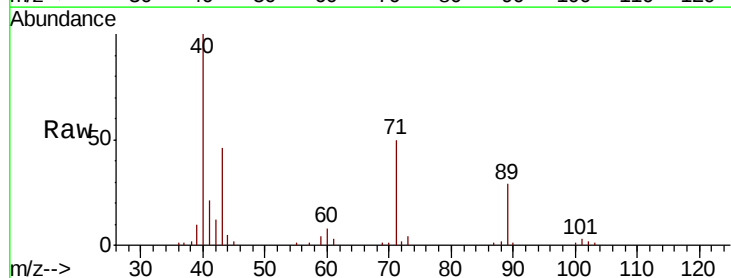
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



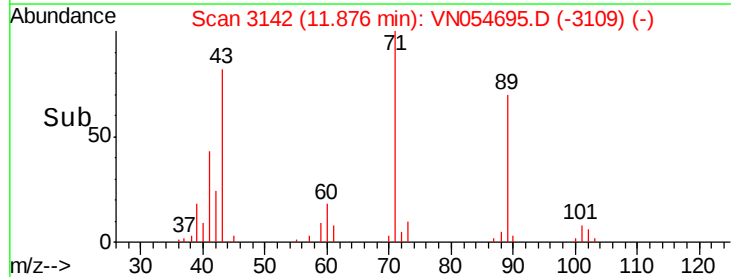
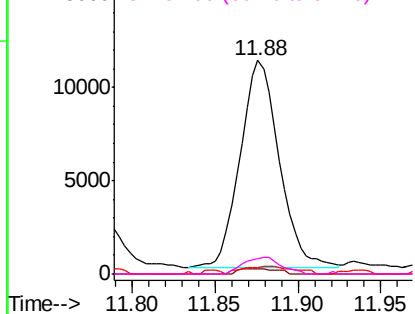
#74

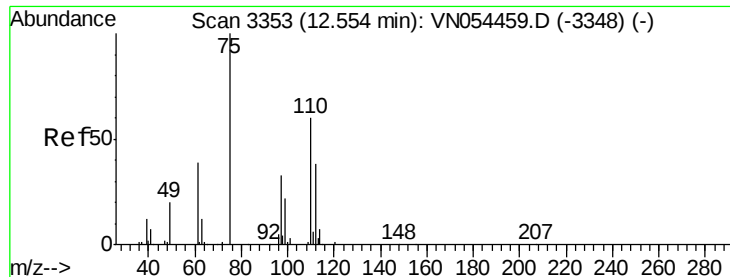
N-ethyl acetate
Concen: 2.990 ug/l
RT: 11.88 min Scan# 3142
Delta R.T. -0.19 min
Lab File: VN054695.D
Acq: 26 Mar 2019 13:39

Tgt Ion: 43 Resp: 18270
Ion Ratio Lower Upper
43 100
70 2.7 35.4 53.0#
55 5.0 19.8 29.6#
61 7.8 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: 40.771 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN054695.D

Acq: 26 Mar 2019 13:39

Instrument :

MSVOA_N

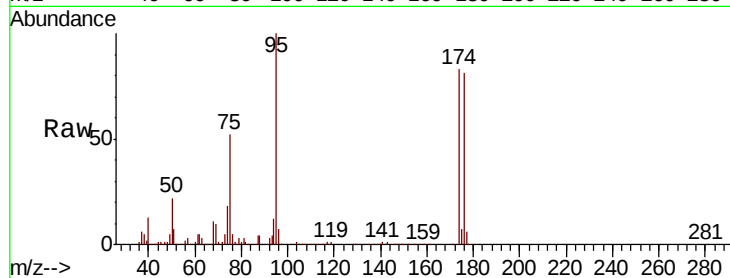
ClientSampled :

Tot Ion: 75 Resp: 170603

Ion Ratio Lower Upper

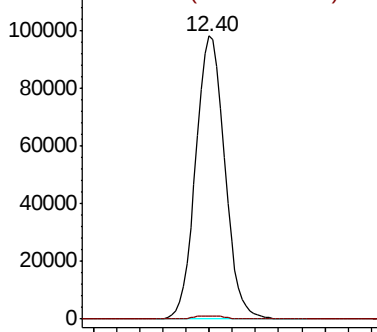
75 100

77 1.2 0.0 0.0#

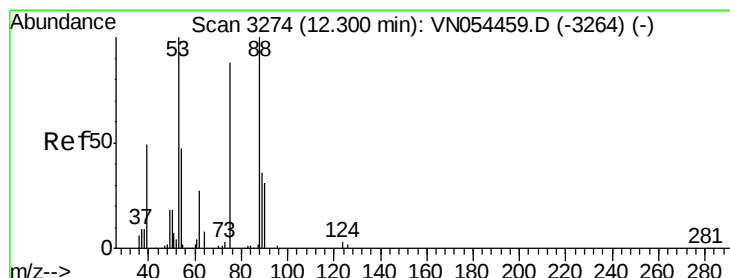
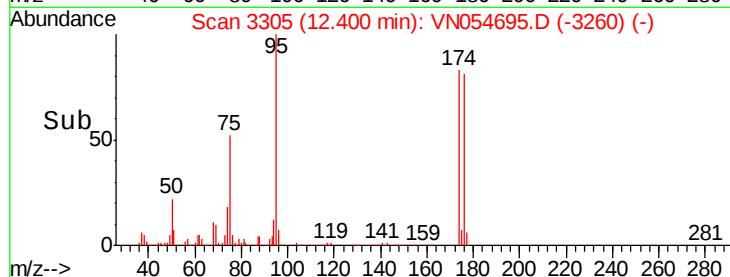


Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 77.00 (76.70 to 77.70): VNO



Time--> 12.30 12.40 12.50



#81

trans-1,4-Dichloro-2-butene

Concen: 134.808 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN054695.D

Acq: 26 Mar 2019 13:39

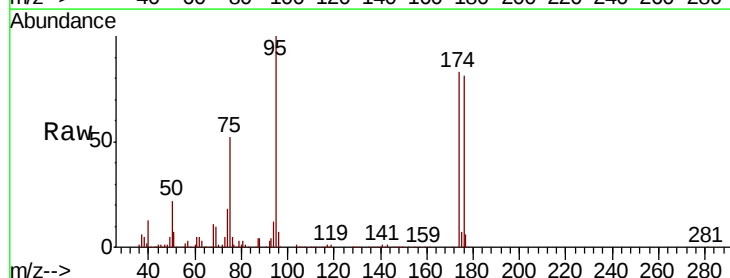
Tgt Ion: 75 Resp: 170603

Ion Ratio Lower Upper

75 100

53 0.0 76.2 114.2#

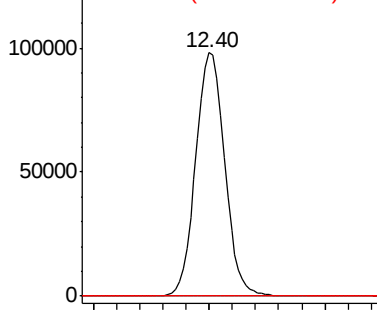
89 0.0 39.2 58.8#



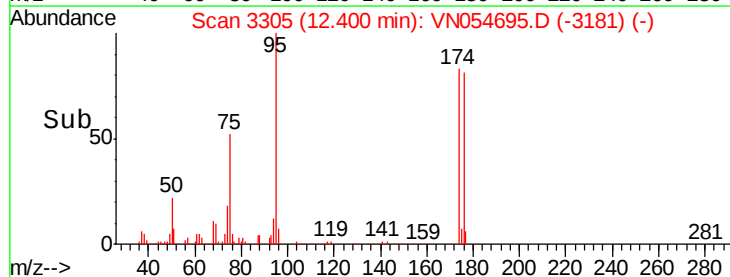
Abundance Ion 74.90 (74.60 to 75.60): VNO

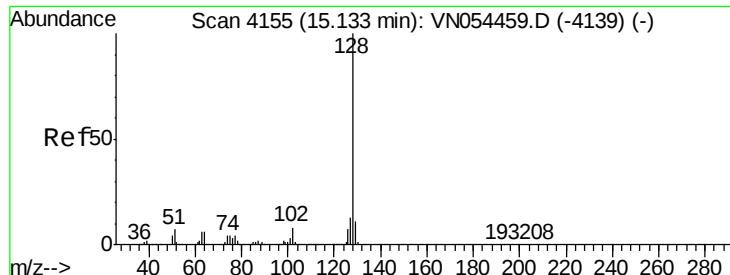
Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO



Time--> 12.30 12.40 12.50





#95

Naphthalene

Concen: 0.277 ug/l

RT: 15.13 min Scan# 4154

Delta R.T. -0.00 min

Lab File: VN054695.D

Acq: 26 Mar 2019 13:39

Instrument :

MSVOA_N

ClientSampleId :

Tot Ion:128 Resp: 2610

Ion Ratio Lower Upper

128 100

127 9.5 10.1 15.1#

129 3.8 8.7 13.1#

