

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN032619\
 Data File : VN054698.D
 Acq On : 26 Mar 2019 14:58
 Operator : JC/SP
 Sample : K2081-08
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

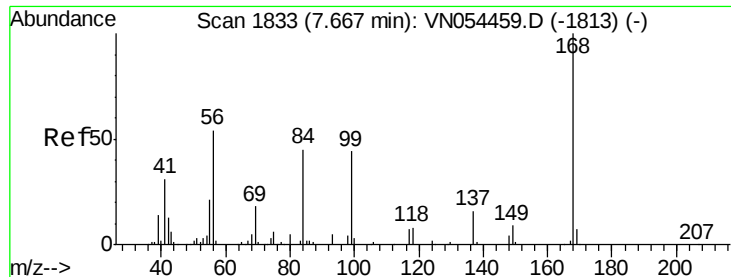
Quant Time: Mar 27 04:07:34 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N032019W.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 22 02:09:07 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	550333	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	883108	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	752279	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	271882	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	354519	51.79	ug/l	0.00
Spiked Amount			Recovery	=	103.58%	
35) Dibromofluoromethane	7.59	113	280253	49.26	ug/l	0.00
Spiked Amount			Recovery	=	98.52%	
50) Toluene-d8	10.09	98	1059954	49.56	ug/l	0.00
Spiked Amount			Recovery	=	99.12%	
62) 4-Bromofluorobenzene	12.40	95	333396	45.81	ug/l	0.00
Spiked Amount			Recovery	=	91.62%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
13) Acrolein	3.61	56	243	0.425	ug/l	88
16) Acetone	3.83	43	12473	6.061	ug/l #	79
18) Methyl Acetate	4.34	43	2235	0.487	ug/l #	58
20) Methylene Chloride	4.55	84	17874	2.946	ug/l	91
25) 2-Butanone	6.85	43	562	0.213	ug/l #	46
29) Tetrahydrofuran	7.22	42	730	0.427	ug/l #	62
31) Cyclohexane	7.66	56	11456	Below Cal	#	21
36) 1,1-Dichloropropene	7.66	75	41297	5.001	ug/l #	48
38) Carbon Tetrachloride	7.67	117	51527	6.422	ug/l #	16
43) Isopropyl Acetate	8.17	43	15648	1.578	ug/l #	89
48) Methyl methacrylate	9.18	41	6994	1.299	ug/l #	11
49) 1,4-Dioxane	9.28	88	62	1.030	ug/l #	1
51) 4-Methyl-2-Pentanone	10.03	43	10505	1.911	ug/l #	36
53) t-1,3-Dichloropropene	10.11	75	31	2.236	ug/l #	1
54) cis-1,3-Dichloropropene	9.91	75	54253	6.028	ug/l #	70
57) 1,3-Dichloropropane	10.77	76	10738	1.183	ug/l #	43
59) 2-Hexanone	10.77	43	174998	48.741	ug/l #	46
71) Bromoform	12.40	173	1881	2.695	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	170184	39.446	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	170184	130.530	ug/l #	11

(#) = 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: VN054698.D

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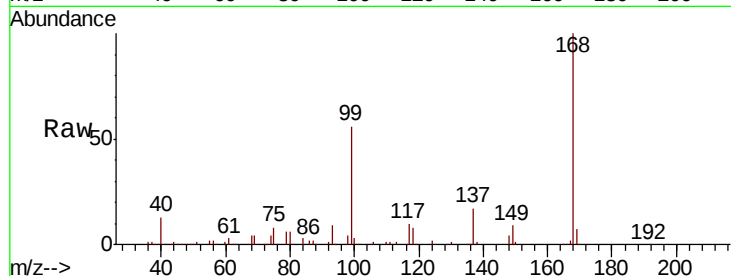
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 550333

Ion Ratio Lower Upper

168 100

99 56.2 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) (-)

7.67

250000

200000

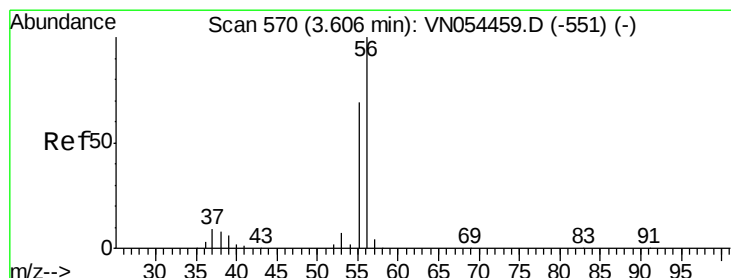
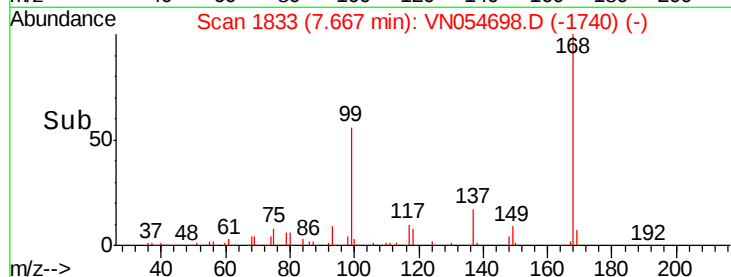
150000

100000

50000

0

Time--> 7.50 7.60 7.70 7.80



#13

Acrolein

Concen: 0.425 ug/l

RT: 3.61 min Scan# 572

Delta R.T. 0.01 min

Lab File: VN054698.D

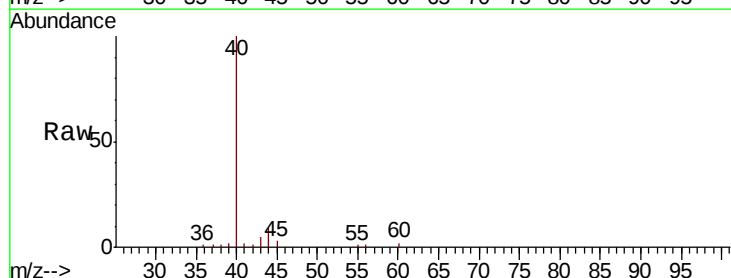
Acq: 26 Mar 2019 14:58

Tgt Ion: 56 Resp: 243

Ion Ratio Lower Upper

56 100

55 80.7 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) (-)

3.61

250

200

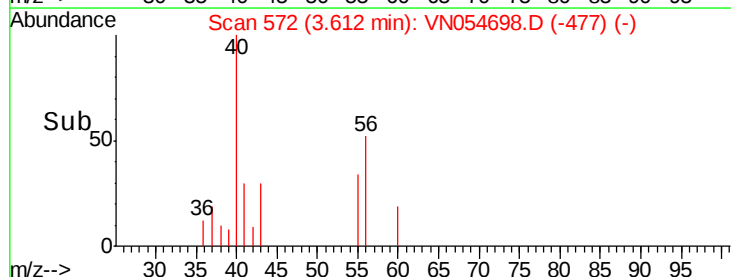
150

100

50

0

Time--> 3.58 3.60 3.62

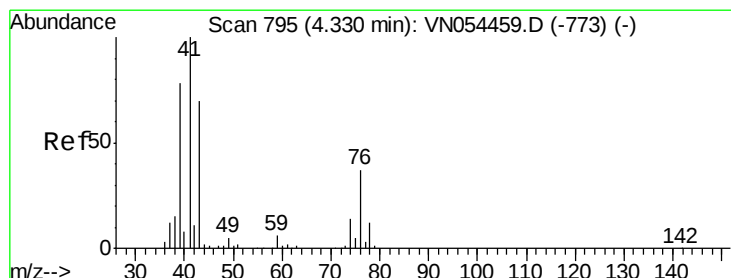
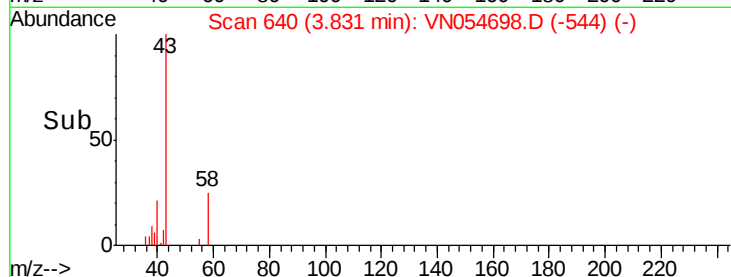
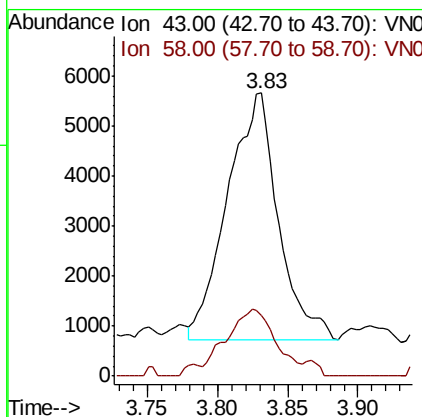
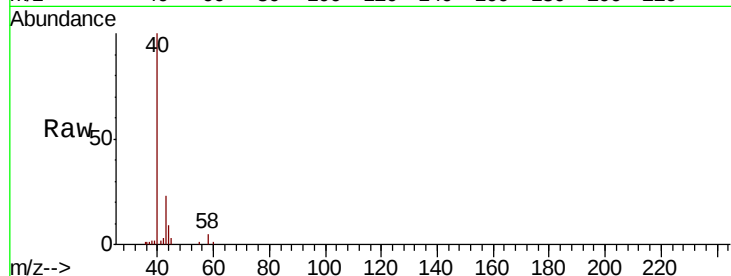




#16
Acetone
Concen: 6.061 ug/l
RT: 3.83 min Scan# 640
Delta R.T. 0.01 min
Lab File: VN054698.D
Acq: 26 Mar 2019 14:58

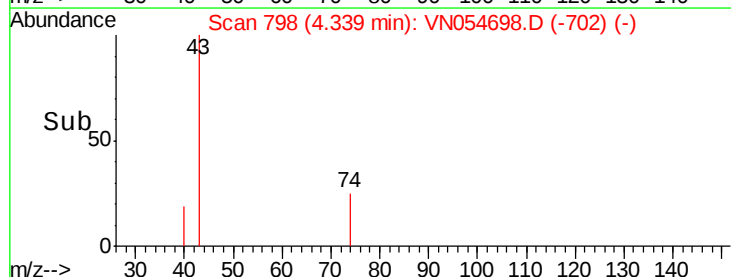
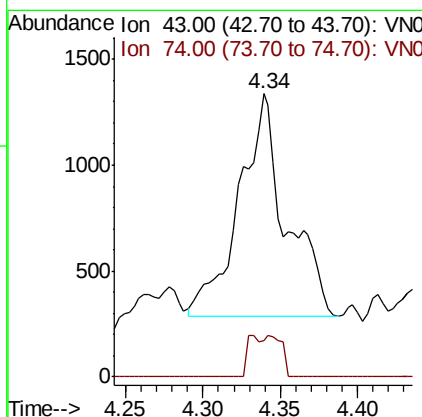
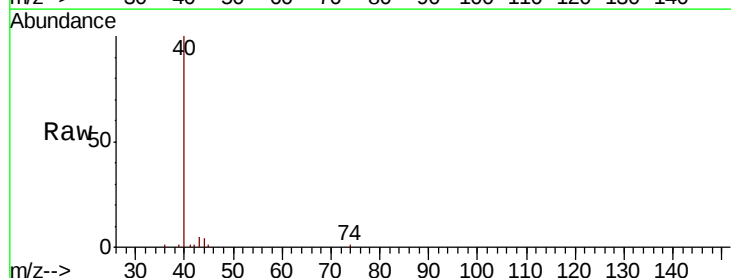
Instrument :
MSVOA_N
ClientSampleId :

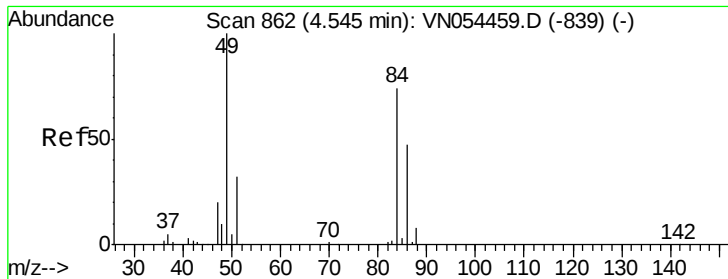
Tot Ion: 43 Resp: 12473
Ion Ratio Lower Upper
43 100
58 24.7 29.9 44.9#



#18
Methyl Acetate
Concen: 0.487 ug/l
RT: 4.34 min Scan# 798
Delta R.T. 0.01 min
Lab File: VN054698.D
Acq: 26 Mar 2019 14:58

Tgt Ion: 43 Resp: 2235
Ion Ratio Lower Upper
43 100
74 4.8 20.8 31.2#

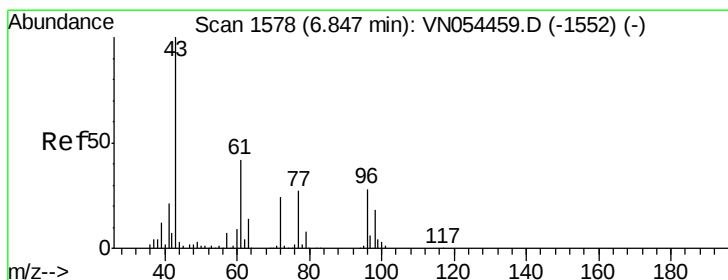
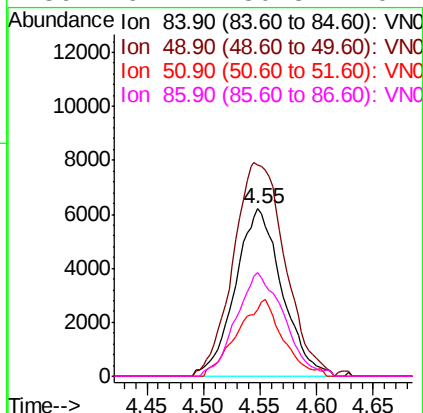
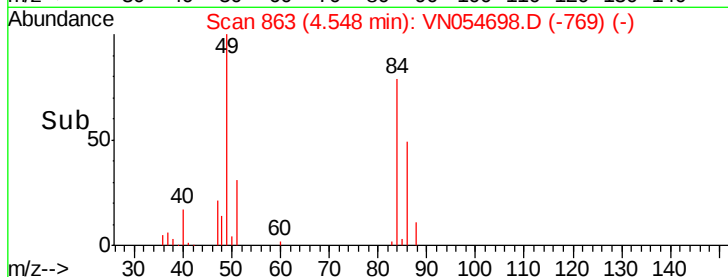
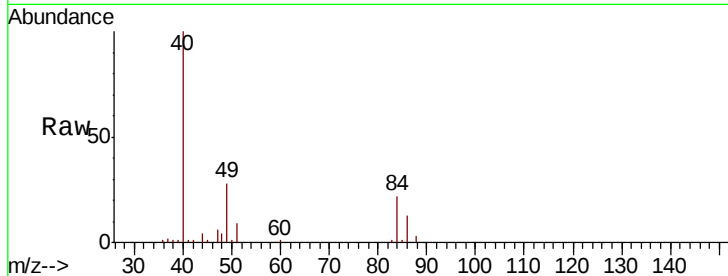




#20
Methylene Chloride
Concen: 2.946 ug/l
RT: 4.55 min Scan# 863
Delta R.T. 0.00 min
Lab File: VN054698.D
Acq: 26 Mar 2019 14:58

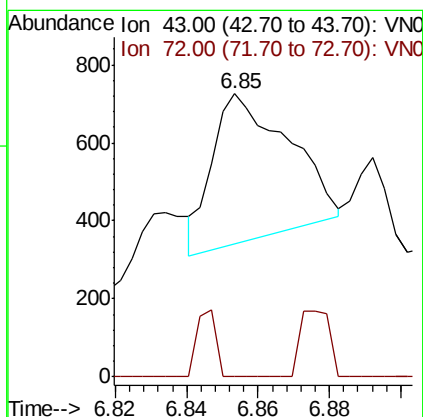
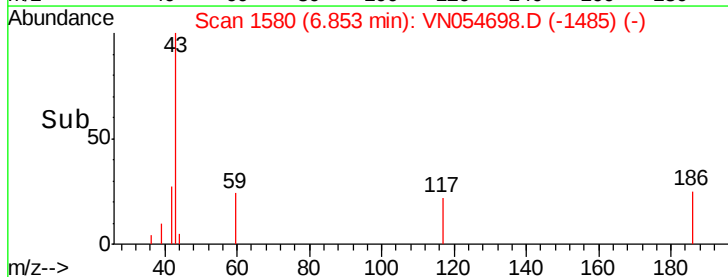
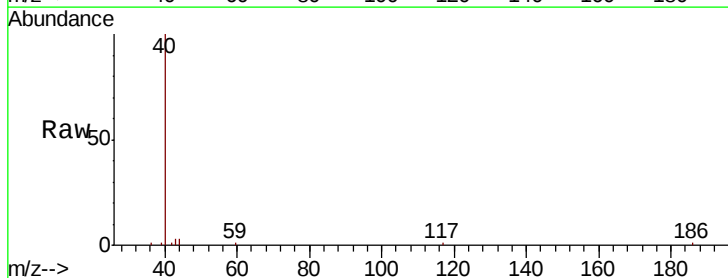
Instrument :
MSVOA_N
ClientSampled :

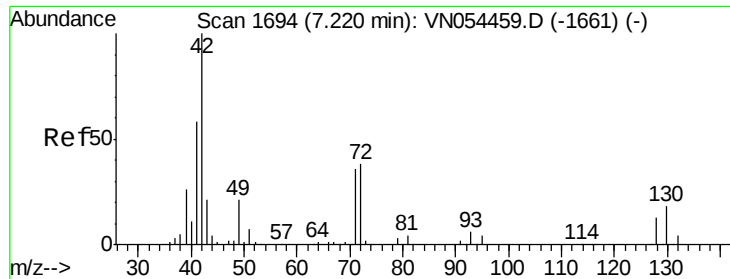
Tot Ion: 84 Resp: 17874
Ion Ratio Lower Upper
84 100
49 126.7 89.7 134.5
51 39.6 28.2 42.4
86 61.7 50.8 76.2



#25
2-Butanone
Concen: 0.213 ug/l
RT: 6.85 min Scan# 1580
Delta R.T. 0.01 min
Lab File: VN054698.D
Acq: 26 Mar 2019 14:58

Tgt Ion: 43 Resp: 562
Ion Ratio Lower Upper
43 100
72 0.0 23.0 34.6#





#29

Tetrahydrofuran

Concen: 0.427 ug/l

RT: 7.22 min Scan# 1695

Delta R.T. 0.00 min

Lab File: VN054698.D

Acq: 26 Mar 2019 14:58

Instrument :

MSVOA_N

ClientSampleId :

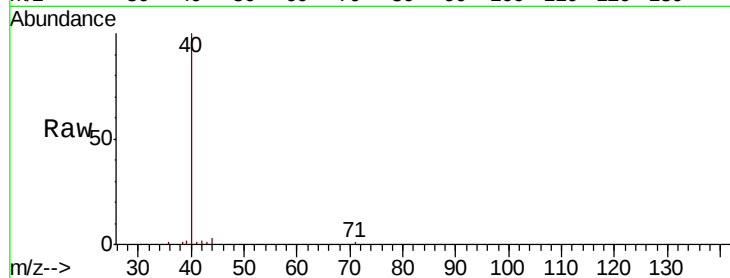
Tot Ion: 42 Resp: 730

Ion Ratio Lower Upper

42 100

72 13.0 37.8 56.6#

71 29.6 36.2 54.2#



Abundance Ion 42.00 (41.70 to 42.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

Ion 71.00 (70.70 to 71.70): VN0

600

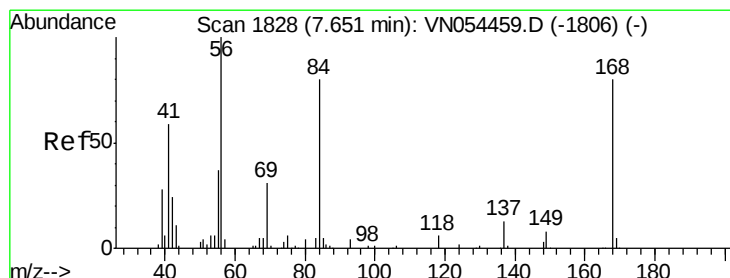
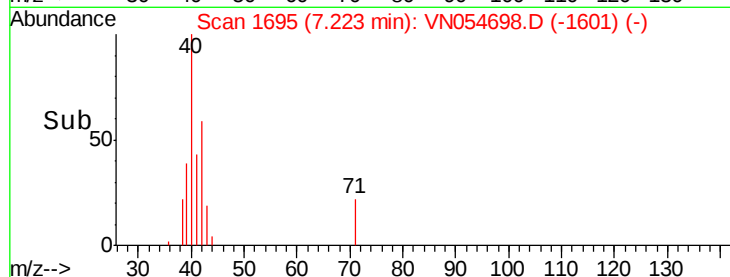
400

200

0

7.18 7.20 7.22 7.24

Time-->



#31

Cyclohexane

Concen: Below Cal

RT: 7.66 min Scan# 1831

Delta R.T. 0.01 min

Lab File: VN054698.D

Acq: 26 Mar 2019 14:58

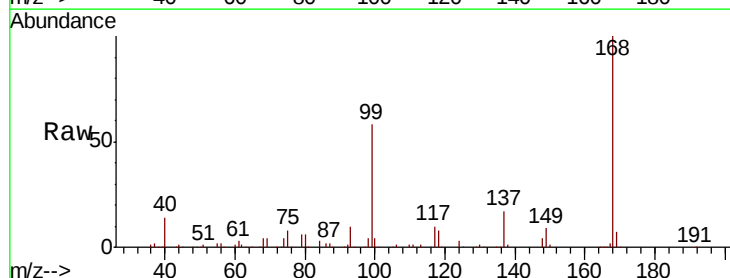
Tgt Ion: 56 Resp: 11456

Ion Ratio Lower Upper

56 100

69 163.2 27.8 41.6#

84 117.3 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

10000

8000

6000

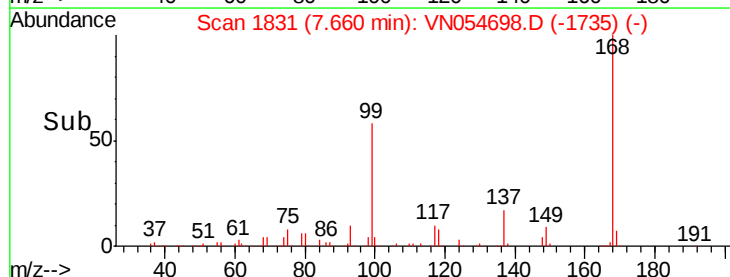
4000

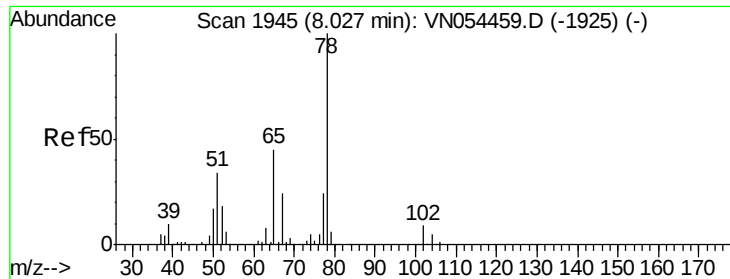
2000

0

7.60 7.65 7.70 7.75

Time-->

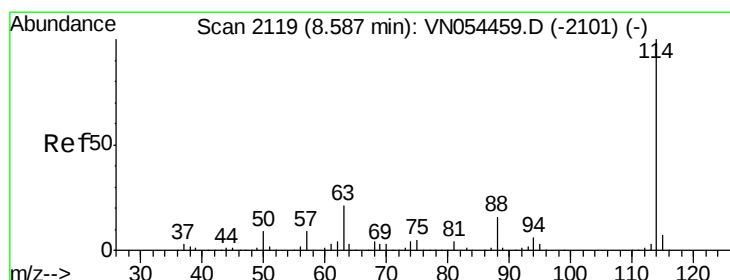
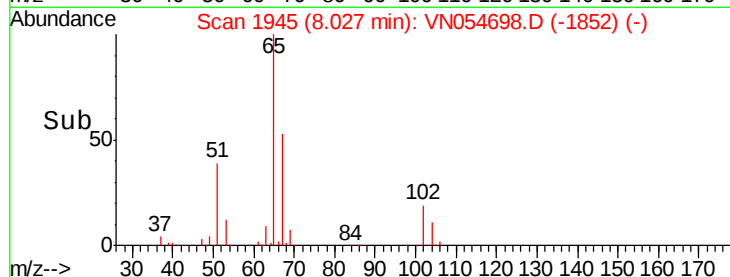
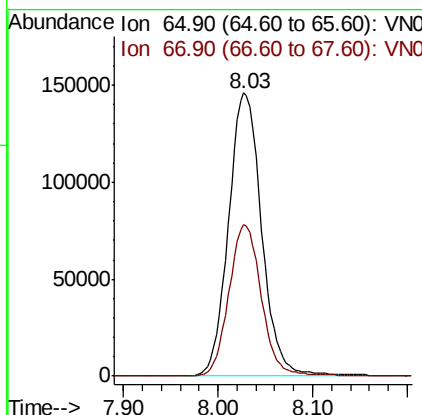
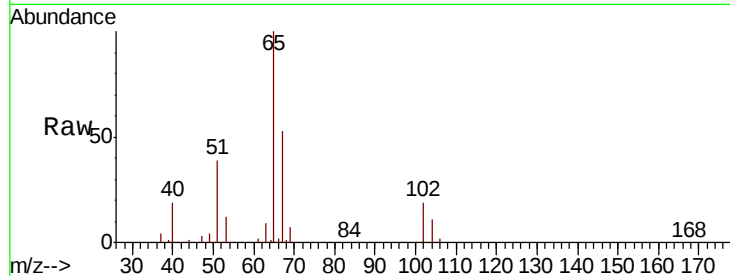




#33
 1,2-Dichloroethane-d4
 Concen: 51.790 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. -0.00 min
 Lab File: VN054698.D
 Acq: 26 Mar 2019 14:58

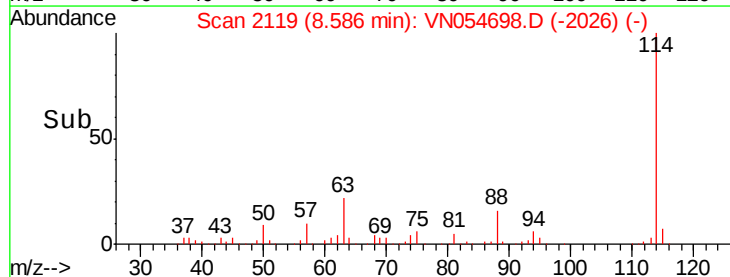
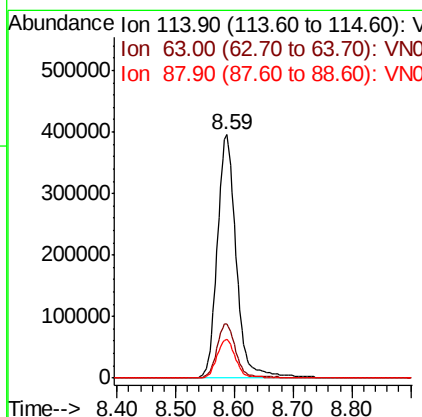
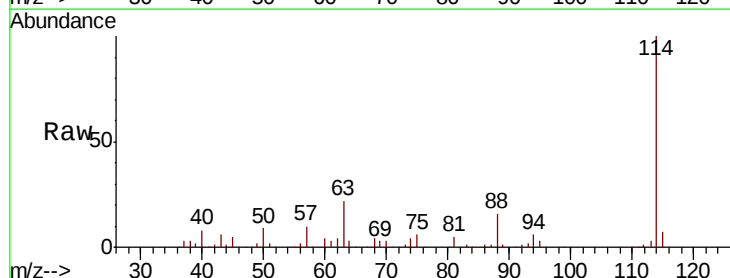
Instrument :
 MSVOA_N
 ClientSampleId :

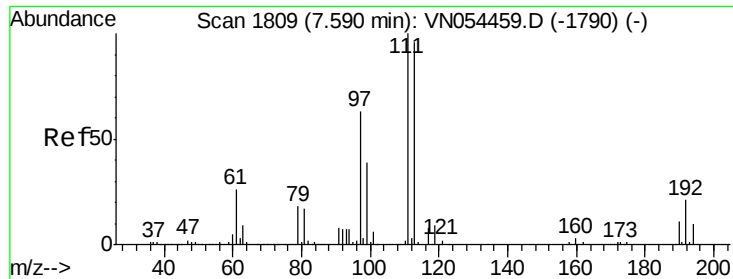
Tot Ion: 65 Resp: 354519
 Ion Ratio Lower Upper
 65 100
 67 52.6 0.0 104.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. -0.00 min
 Lab File: VN054698.D
 Acq: 26 Mar 2019 14:58

Tgt Ion: 114 Resp: 883108
 Ion Ratio Lower Upper
 114 100
 63 22.3 0.0 35.2
 88 16.0 0.0 30.2

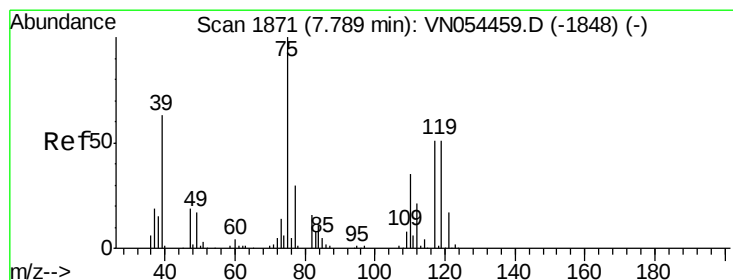
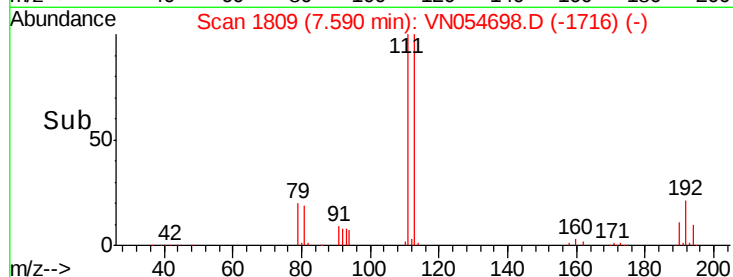
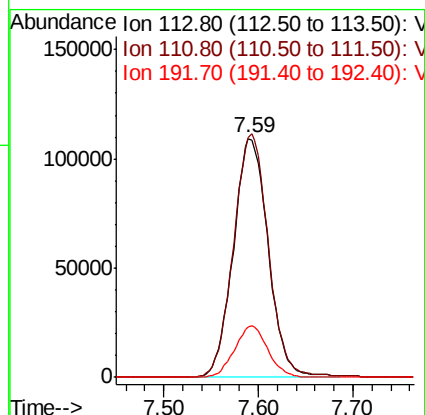
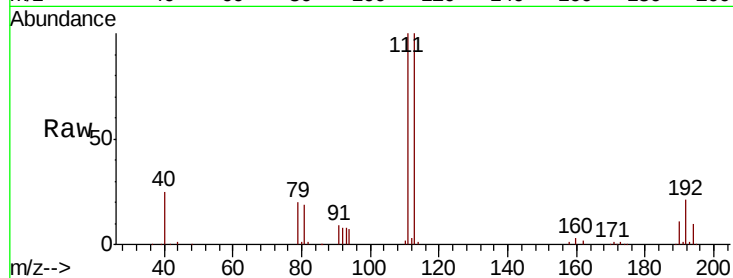




#35
 Dibromofluoromethane
 Concen: 49.259 ug/l
 RT: 7.59 min Scan# 1809
 Delta R.T. -0.00 min
 Lab File: VN054698.D
 Acq: 26 Mar 2019 14:58

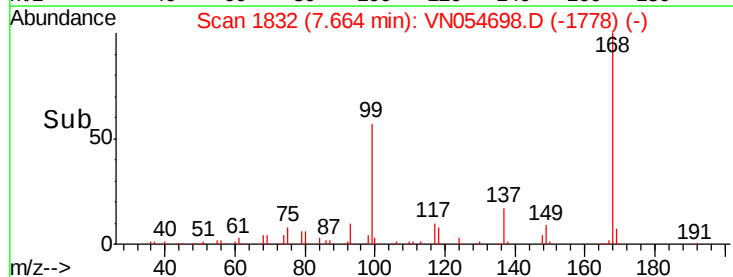
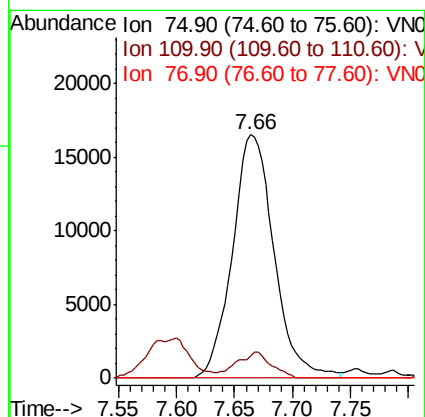
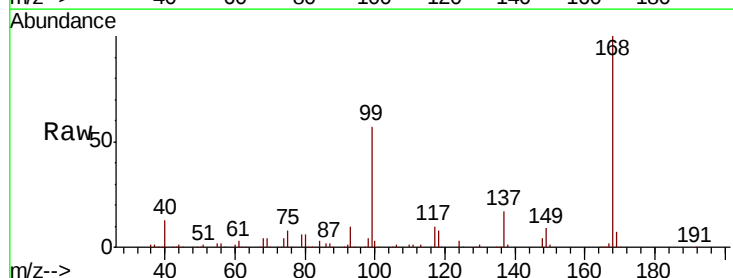
Instrument :
 MSVOA_N
 ClientSampled :

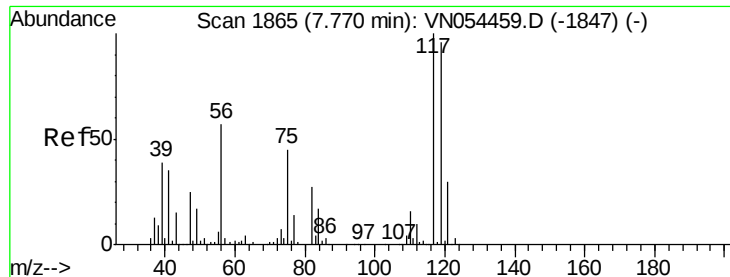
Tot Ion	Ratio	Lower	Upper
113	100		
111	101.8	82.2	123.4
192	20.5	19.2	28.8



#36
 1,1-Dichloropropene
 Concen: 5.001 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.13 min
 Lab File: VN054698.D
 Acq: 26 Mar 2019 14:58

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.9	19.1	57.5#
77	0.0	25.0	37.4#





#38

Carbon Tetrachloride

Concen: 6.422 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.10 min

Lab File: VN054698.D

Acq: 26 Mar 2019 14:58

Instrument :

MSVOA_N

ClientSampled :

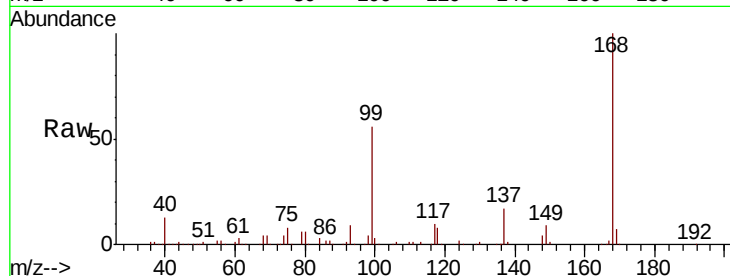
Tot Ion:117 Resp: 51527

Ion Ratio Lower Upper

117 100

119 5.1 76.3 114.5#

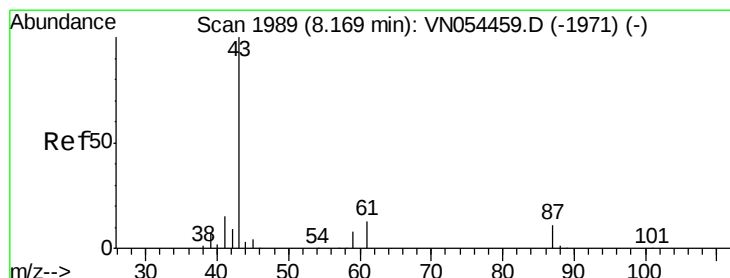
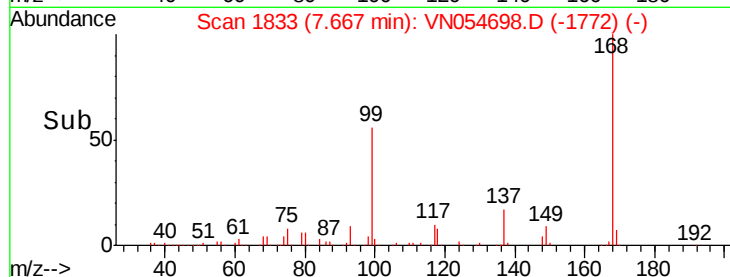
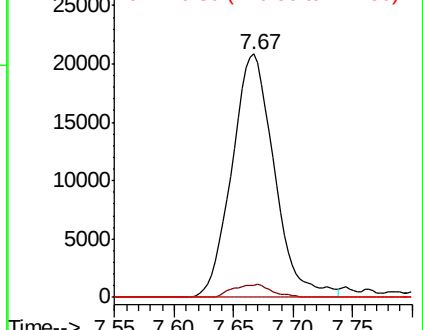
121 0.0 24.6 36.8#



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: 1.578 ug/l

RT: 8.17 min Scan# 1989

Delta R.T. -0.00 min

Lab File: VN054698.D

Acq: 26 Mar 2019 14:58

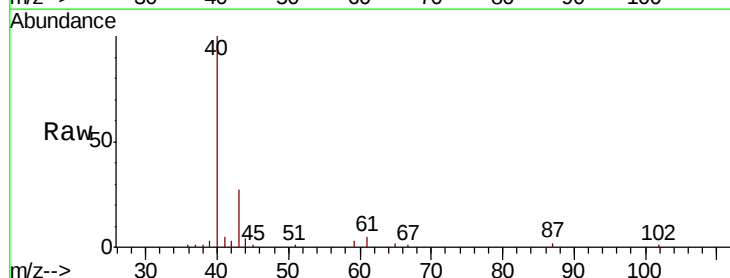
Tgt Ion: 43 Resp: 15648

Ion Ratio Lower Upper

43 100

61 19.4 15.8 23.8

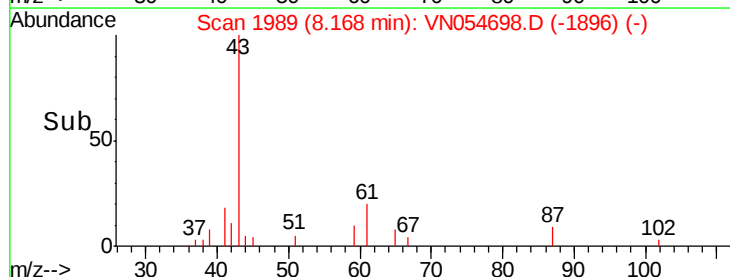
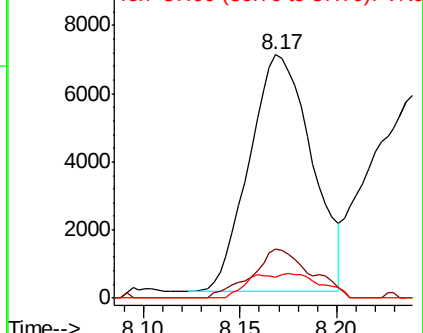
87 4.9 12.0 18.0#

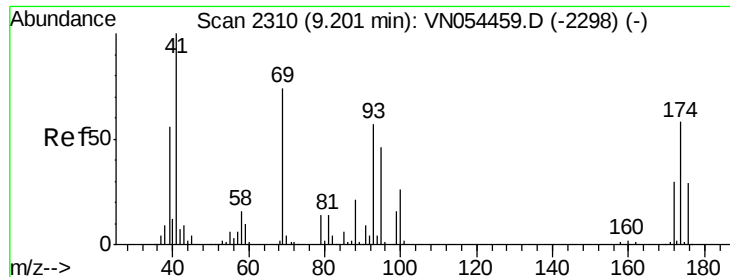


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V

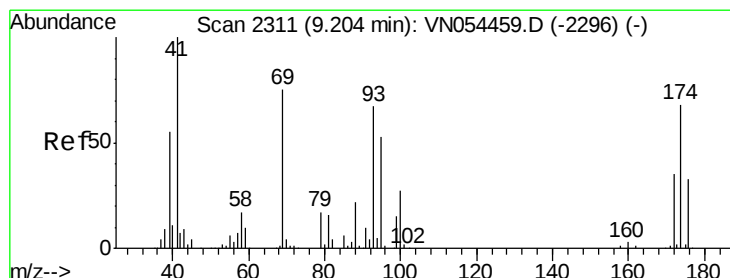
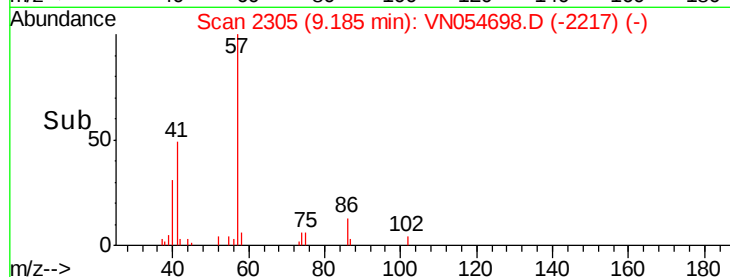
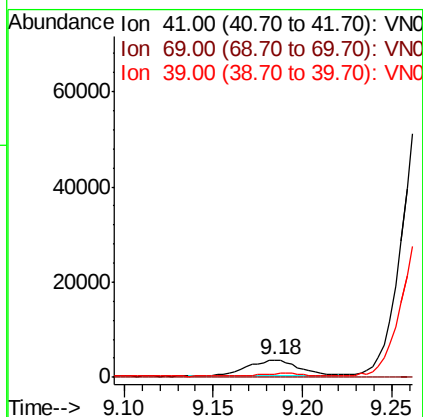
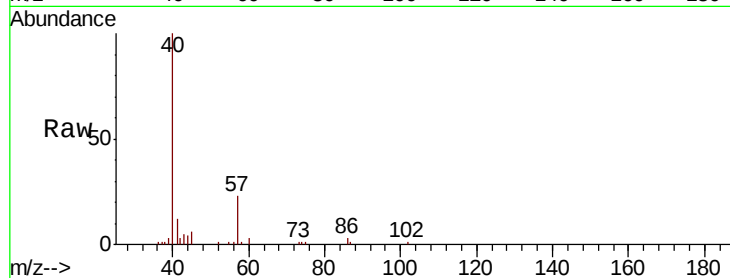




#48
Methyl methacrylate
Concen: 1.299 ug/l
RT: 9.18 min Scan# 2305
Delta R.T. -0.02 min
Lab File: VN054698.D
Acq: 26 Mar 2019 14:58

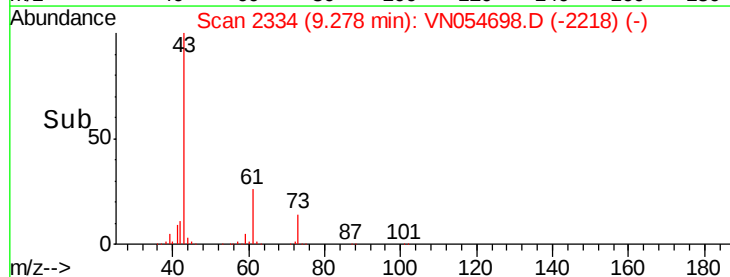
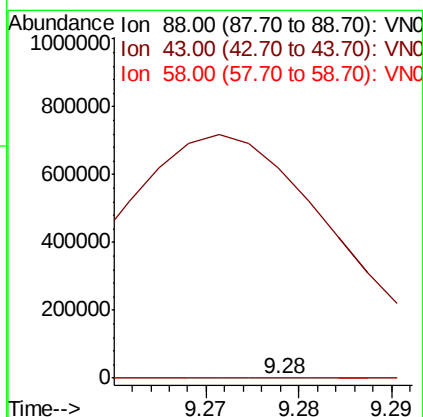
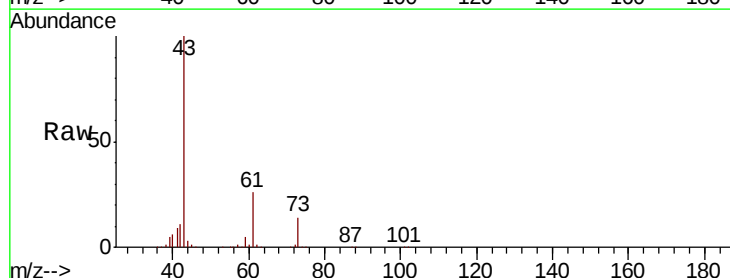
Instrument :
MSVOA_N
ClientSampleId :

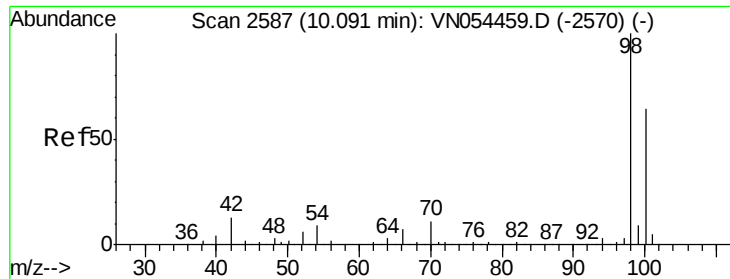
Tot Ion: 41 Resp: 6994
Ion Ratio Lower Upper
41 100
69 0.0 72.6 108.8#
39 0.0 47.5 71.3#



#49
1,4-Dioxane
Concen: 1.030 ug/l
RT: 9.28 min Scan# 2334
Delta R.T. 0.07 min
Lab File: VN054698.D
Acq: 26 Mar 2019 14:58

Tgt Ion: 88 Resp: 62
Ion Ratio Lower Upper
88 100
43 2248729.0 24.1 36.1#
58 8667.7 50.8 76.2#





#50

Toluene-d8

Concen: 49.557 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN054698.D

Acq: 26 Mar 2019 14:58

Instrument :

MSVOA_N

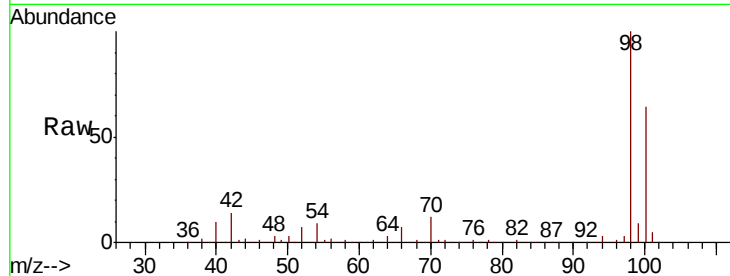
ClientSampleId :

Tot Ion: 98 Resp: 1059954

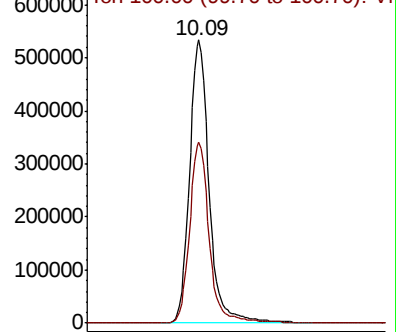
Ion Ratio Lower Upper

98 100

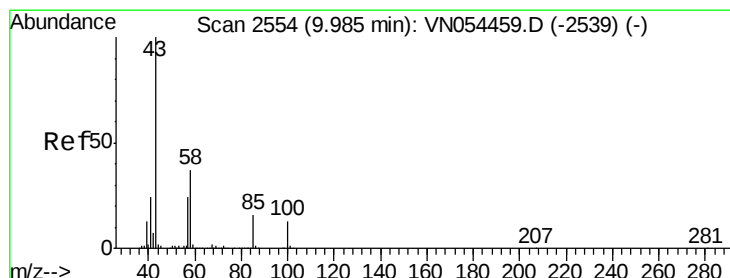
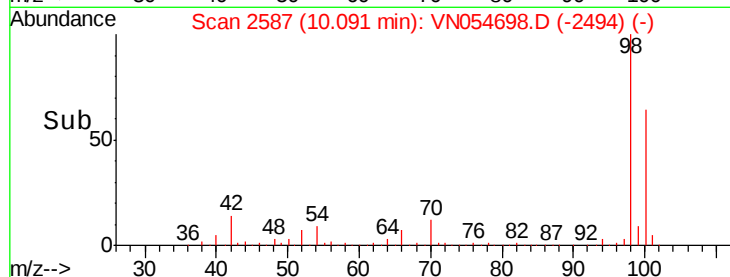
100 64.4 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VN054459.D (-2570) (-)



Time-->



#51

4-Methyl-2-Pentanone

Concen: 1.911 ug/l

RT: 10.03 min Scan# 2567

Delta R.T. 0.04 min

Lab File: VN054698.D

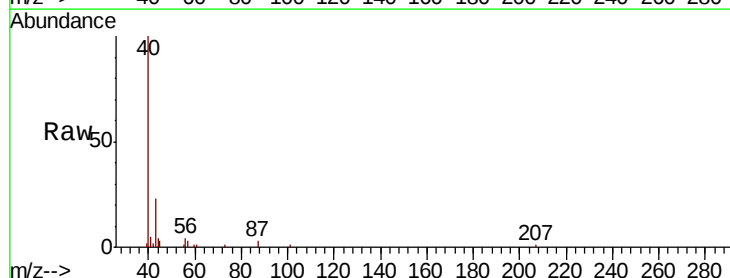
Acq: 26 Mar 2019 14:58

Tgt Ion: 43 Resp: 10505

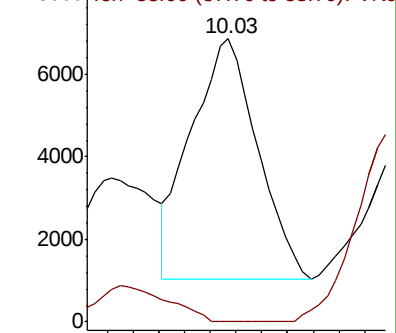
Ion Ratio Lower Upper

43 100

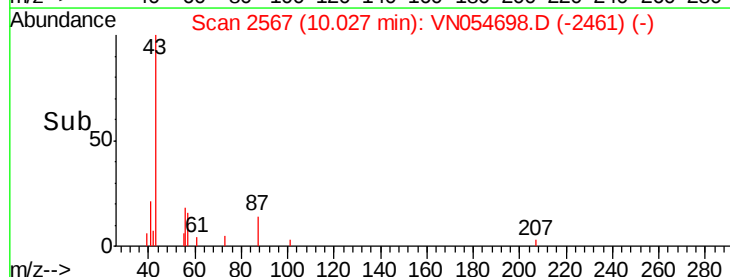
58 0.0 31.8 47.6#

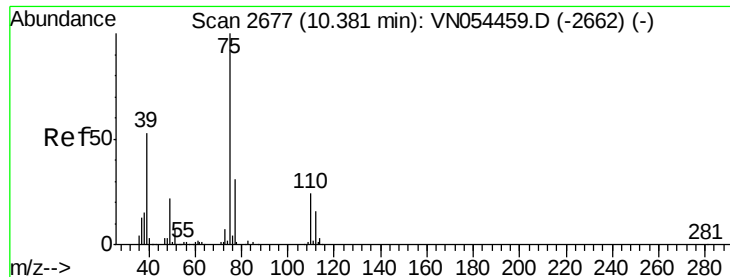


Abundance Ion 43.00 (42.70 to 43.70): VN054459.D (-2539) (-)



Time-->





#53

t-1,3-Dichloropropene

Concen: 2.236 ug/l

RT: 10.11 min Scan# 2592

Delta R.T. -0.27 min

Lab File: VN054698.D

Acq: 26 Mar 2019 14:58

Instrument :

MSVOA_N

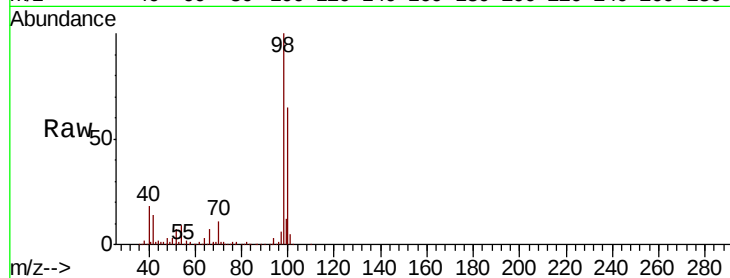
ClientSampleId :

Tot Ion: 75 Resp: 31

Ion Ratio Lower Upper

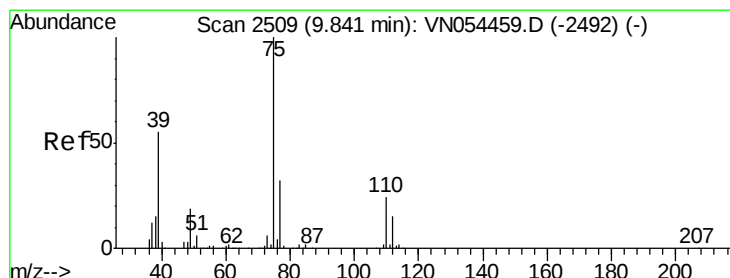
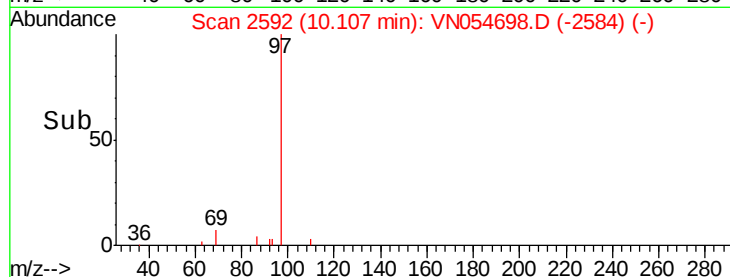
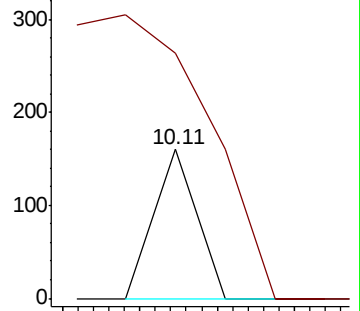
75 100

77 165.0 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: 6.028 ug/l

RT: 9.91 min Scan# 2530

Delta R.T. 0.07 min

Lab File: VN054698.D

Acq: 26 Mar 2019 14:58

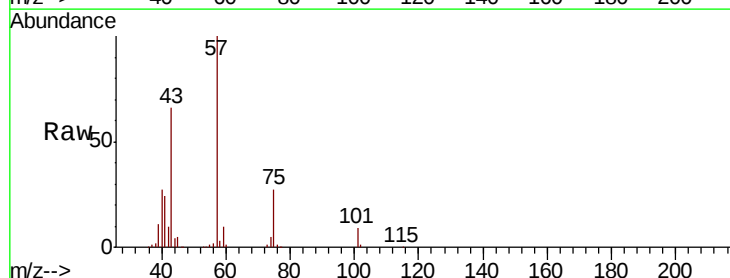
Tgt Ion: 75 Resp: 54253

Ion Ratio Lower Upper

75 100

77 1.2 25.4 38.0#

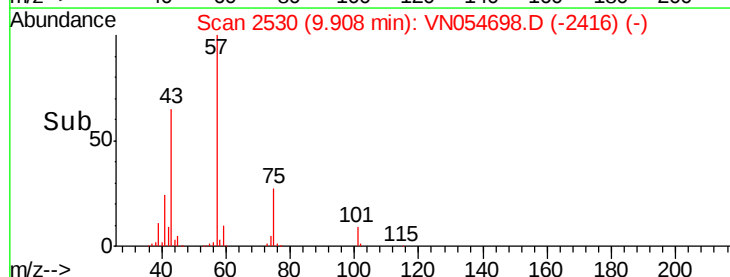
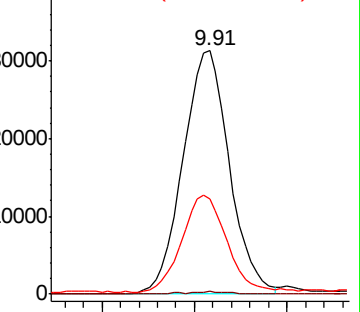
39 38.1 37.2 55.8

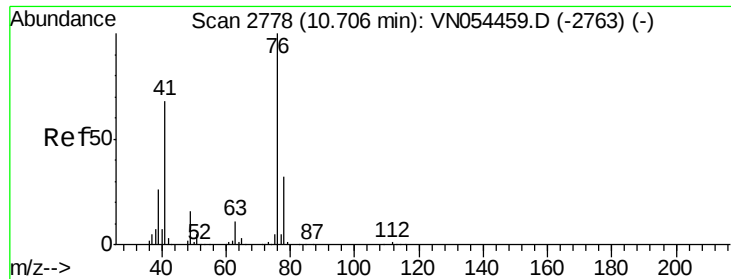


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0

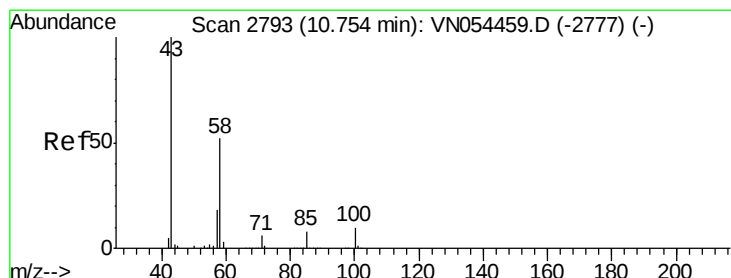
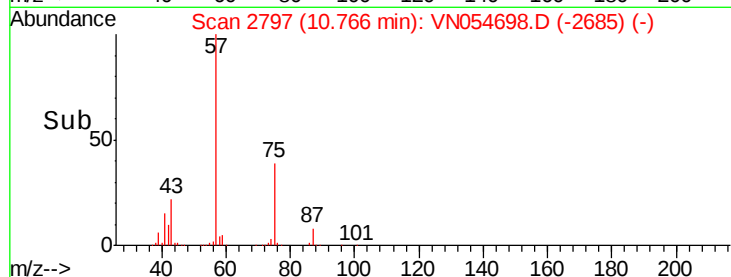
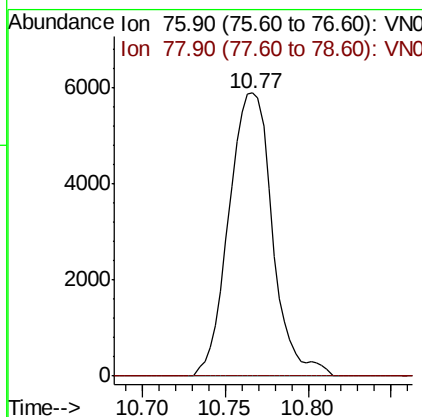
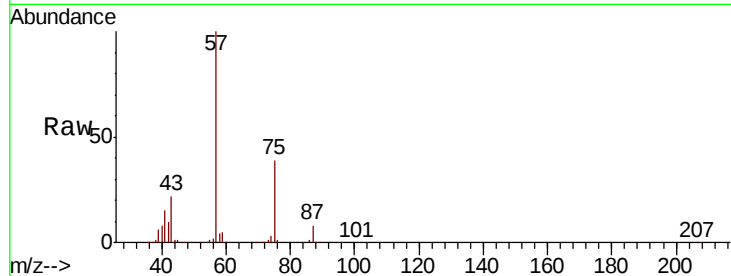




#57
 1,3-Dichloropropane
 Concen: 1.183 ug/l
 RT: 10.77 min Scan# 2797
 Delta R.T. 0.06 min
 Lab File: VN054698.D
 Acq: 26 Mar 2019 14:58

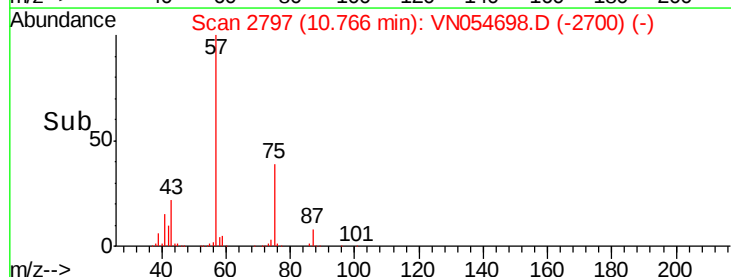
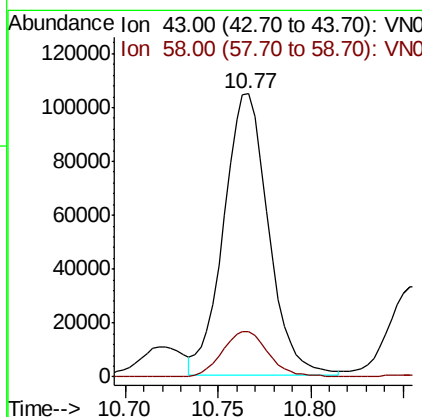
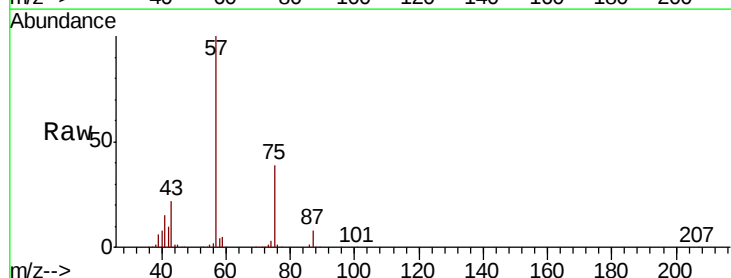
Instrument :
 MSVOA_N
 ClientSampleId :

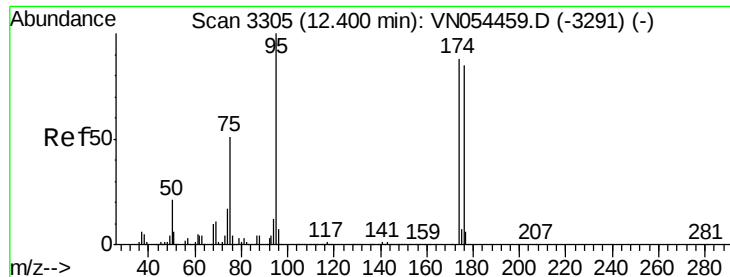
Tot Ion: 76 Resp: 10738
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.7 38.5#



#59
 2-Hexanone
 Concen: 48.741 ug/l
 RT: 10.77 min Scan# 2797
 Delta R.T. 0.01 min
 Lab File: VN054698.D
 Acq: 26 Mar 2019 14:58

Tgt Ion: 43 Resp: 174998
 Ion Ratio Lower Upper
 43 100
 58 16.8 28.0 83.9#





#62

4-Bromofluorobenzene

Concen: 45.807 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.00 min

Lab File: VN054698.D

Acq: 26 Mar 2019 14:58

Instrument :

MSVOA_N

ClientSampleId :

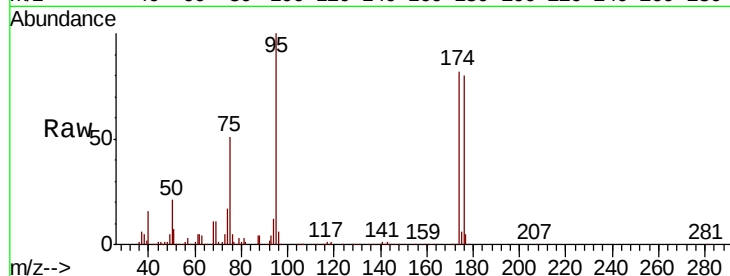
Tot Ion: 95 Resp: 333396

Ion Ratio Lower Upper

95 100

174 83.1 0.0 191.0

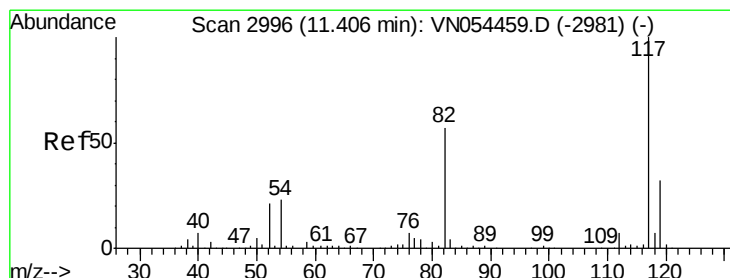
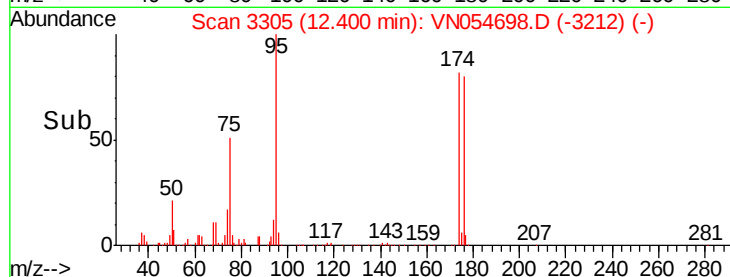
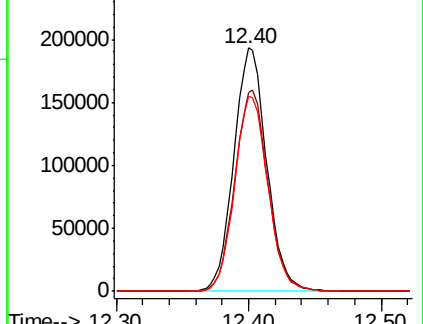
176 80.9 0.0 187.4



Abundance Ion 94.90 (94.60 to 95.60): VN054459.D (-3291) (-)

Ion 173.80 (173.50 to 174.50): VN054459.D (-3291) (-)

Ion 175.80 (175.50 to 176.50): VN054459.D (-3291) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. -0.00 min

Lab File: VN054698.D

Acq: 26 Mar 2019 14:58

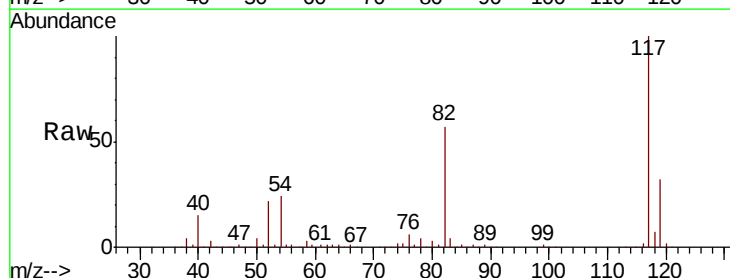
Tgt Ion: 117 Resp: 752279

Ion Ratio Lower Upper

117 100

82 56.6 40.0 60.0

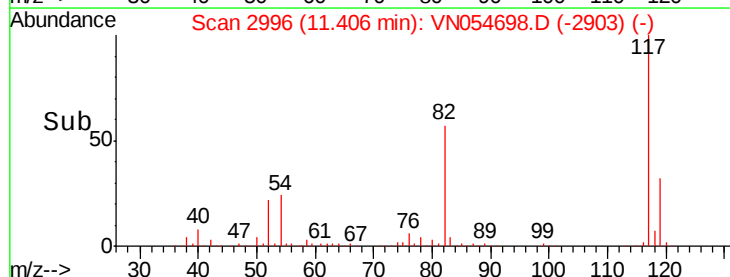
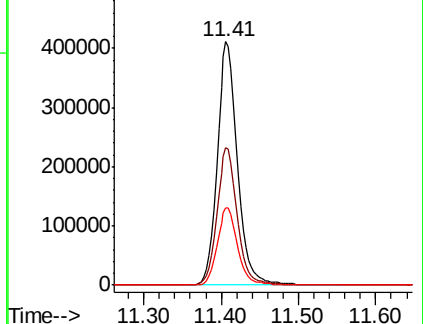
119 31.8 25.8 38.6

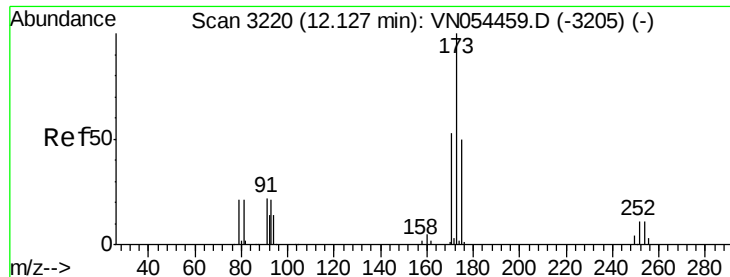


Abundance Ion 116.90 (116.60 to 117.60): VN054459.D (-2981) (-)

Ion 82.00 (81.70 to 82.70): VN054459.D (-2981) (-)

Ion 118.90 (118.60 to 119.60): VN054459.D (-2981) (-)





#71

Bromoform

Concen: 2.695 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.28 min

Lab File: VN054698.D

Acq: 26 Mar 2019 14:58

Instrument :

MSVOA_N

ClientSampled :

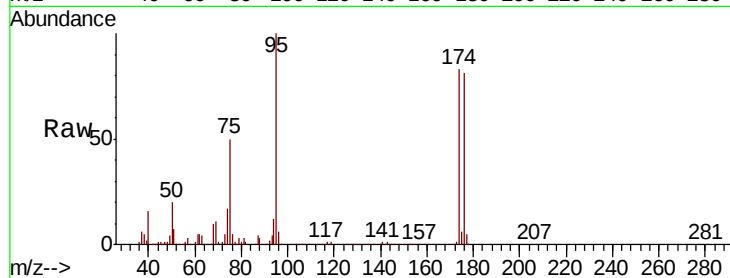
Tot Ion:173 Resp: 1881

Ion Ratio Lower Upper

173 100

175 906.2 24.4 73.2#

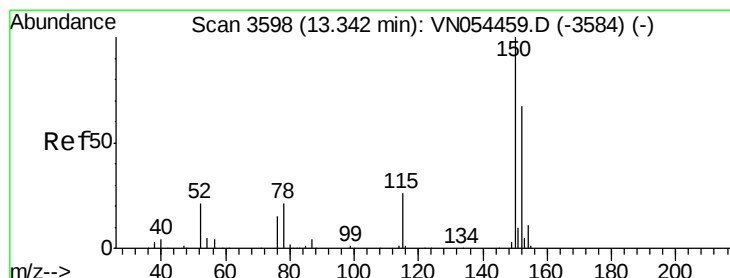
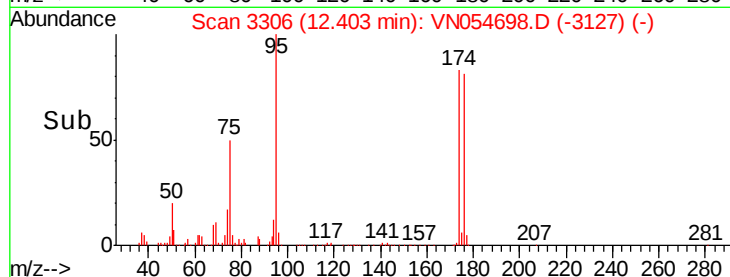
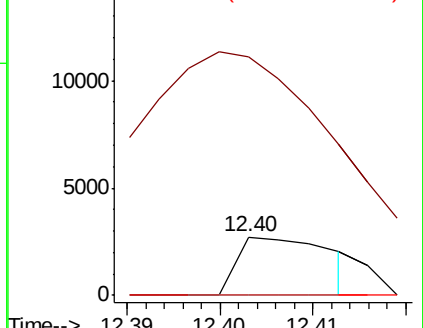
254 0.0 0.1 0.1#



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: VN054698.D

Acq: 26 Mar 2019 14:58

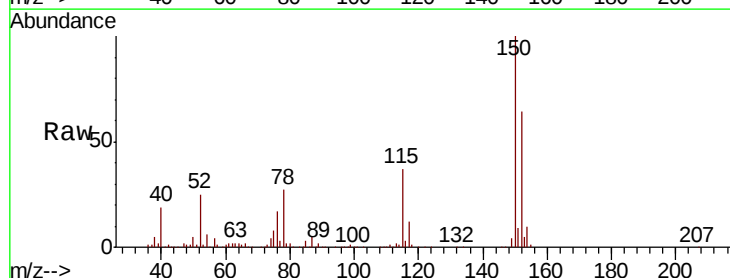
Tgt Ion:152 Resp: 271882

Ion Ratio Lower Upper

152 100

115 59.2 27.2 81.6

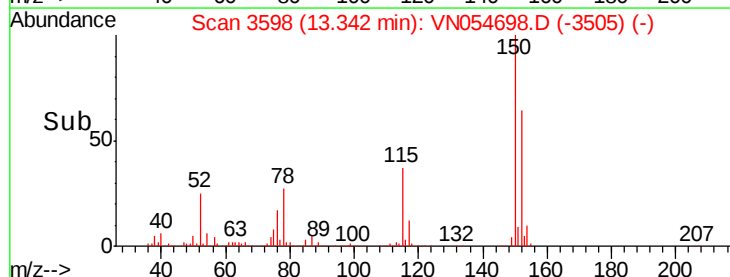
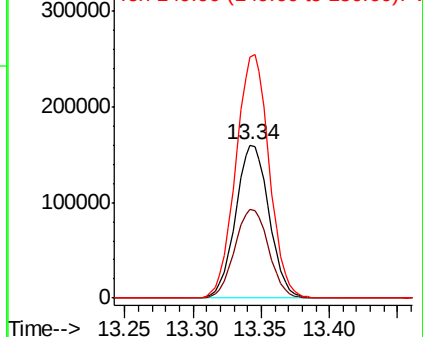
150 158.7 0.0 349.2

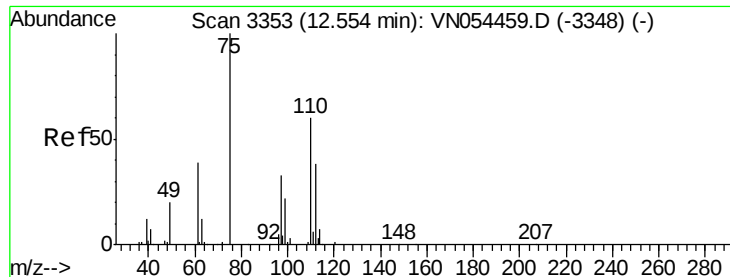


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 39.446 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN054698.D

Acq: 26 Mar 2019 14:58

Instrument :

MSVOA_N

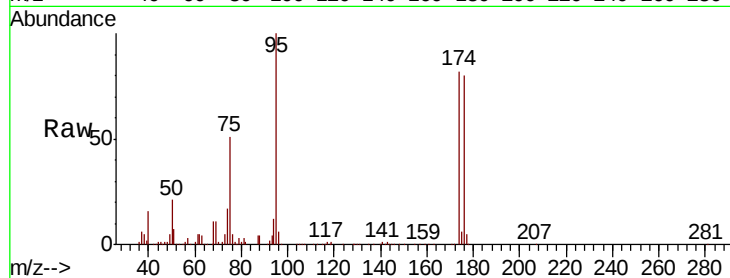
ClientSampled :

Tot Ion: 75 Resp: 170184

Ion Ratio Lower Upper

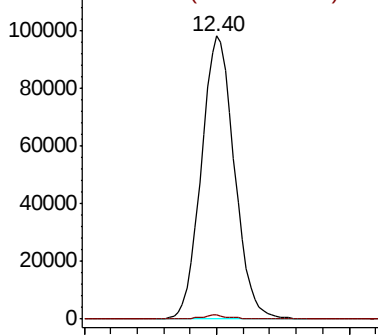
75 100

77 1.2 0.0 0.0#

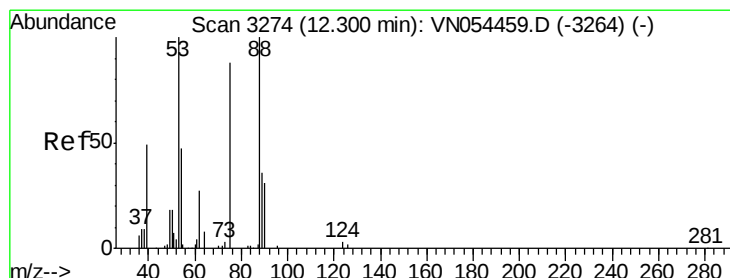
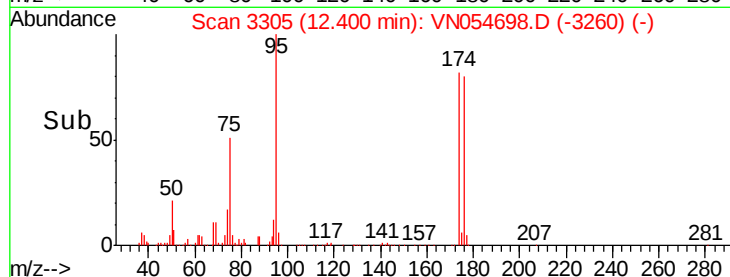


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0



Time--> 12.30 12.40 12.50



#81

trans-1,4-Dichloro-2-butene

Concen: 130.530 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN054698.D

Acq: 26 Mar 2019 14:58

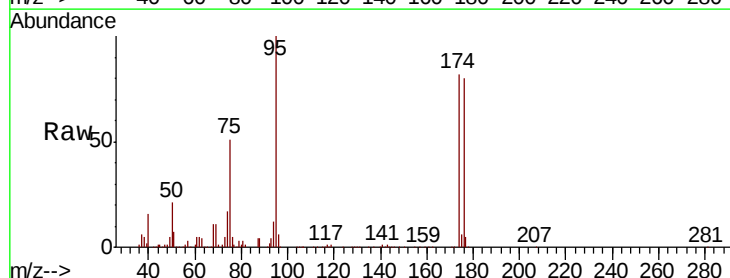
Tgt Ion: 75 Resp: 170184

Ion Ratio Lower Upper

75 100

53 0.1 76.2 114.2#

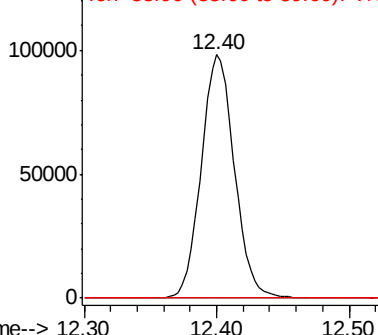
89 0.0 39.2 58.8#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0



Time--> 12.30 12.40 12.50

