

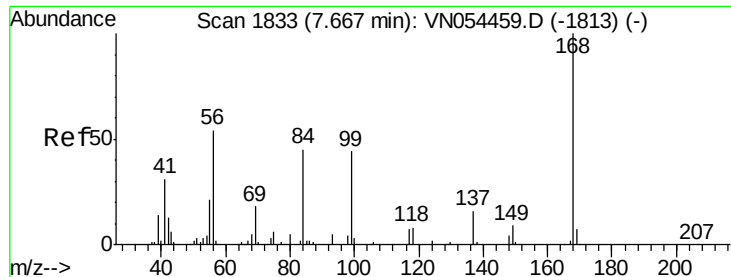
Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN032519\
 Data File : VN054673.D
 Acq On : 25 Mar 2019 15:26
 Operator : JC/SP
 Sample : K2050-11
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 CS-1

Quant Time: Mar 26 01:26:20 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	576240	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	937430	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	779018	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	274668	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.03	65	377020	52.60	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.20%	
35) Dibromofluoromethane	7.59	113	306186	50.70	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.40%	
50) Toluene-d8	10.09	98	1117335	49.21	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.42%	
62) 4-Bromofluorobenzene	12.40	95	336324	43.53	ug/l	0.00
Spiked Amount	50.000		Recovery	=	87.06%	
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	4.81	59	201	0.463	ug/l #	70
13) Acrolein	3.62	56	152	0.254	ug/l #	1
16) Acetone	3.82	43	14561	6.757	ug/l #	78
17) Carbon Disulfide	4.04	76	12703	0.853	ug/l	97
20) Methylene Chloride	4.55	84	16072	2.530	ug/l #	84
25) 2-Butanone	6.87	43	4372	1.584	ug/l #	77
29) Tetrahydrofuran	7.22	42	1524	0.851	ug/l #	55
31) Cyclohexane	7.66	56	12110	Below Cal	#	12
36) 1,1-Dichloropropene	7.67	75	44010	5.021	ug/l #	47
38) Carbon Tetrachloride	7.67	117	53438	6.274	ug/l #	16
43) Isopropyl Acetate	8.17	43	15665	1.488	ug/l #	93
48) Methyl methacrylate	9.18	41	6989	1.223	ug/l #	11
49) 1,4-Dioxane	9.26	88	105	1.644	ug/l #	1
51) 4-Methyl-2-Pentanone	9.99	43	4185	0.717	ug/l	98
53) t-1,3-Dichloropropene	10.10	75	147	2.248	ug/l #	40
54) cis-1,3-Dichloropropene	9.91	75	38124	3.990	ug/l #	72
57) 1,3-Dichloropropane	10.76	76	5322	0.552	ug/l #	43
59) 2-Hexanone	10.77	43	94064	24.681	ug/l #	47
71) Bromoform	12.38	173	105	2.246	ug/l #	28
76) 1,2,3-Trichloropropane	12.40	75	174447	40.024	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	174447	132.396	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: VN054673.D

Acq: 25 Mar 2019 15:26

Instrument :

MSVOA_N

ClientSampled :

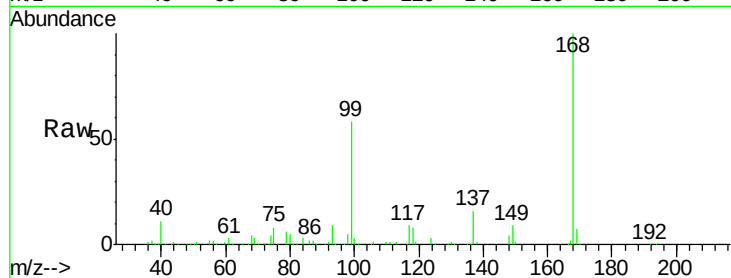
CS-1

Tot Ion:168 Resp: 576240

Ion Ratio Lower Upper

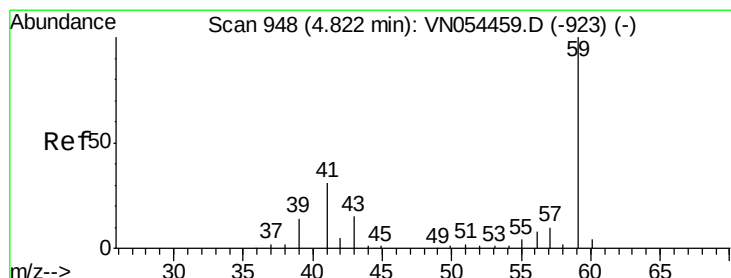
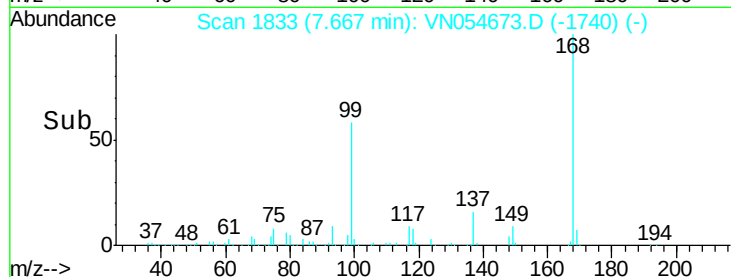
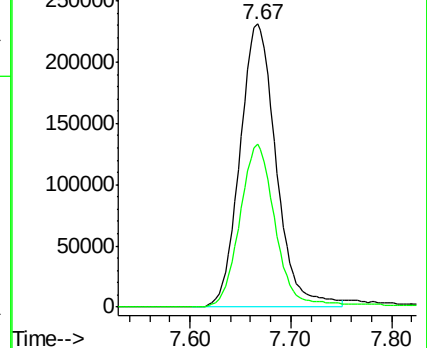
168 100

99 57.6 37.1 55.7#



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#11

Tert butyl alcohol

Concen: 0.463 ug/l

RT: 4.81 min Scan# 945

Delta R.T. -0.01 min

Lab File: VN054673.D

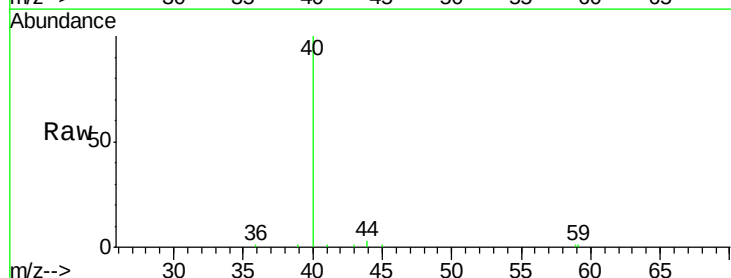
Acq: 25 Mar 2019 15:26

Tgt Ion: 59 Resp: 201

Ion Ratio Lower Upper

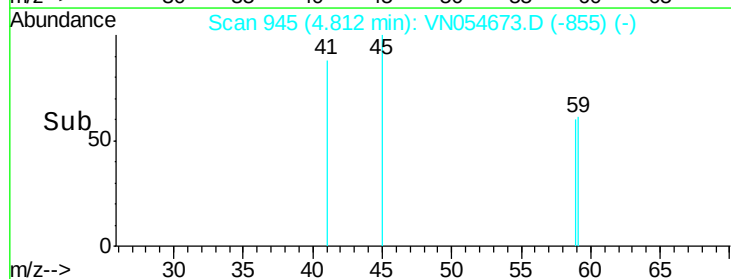
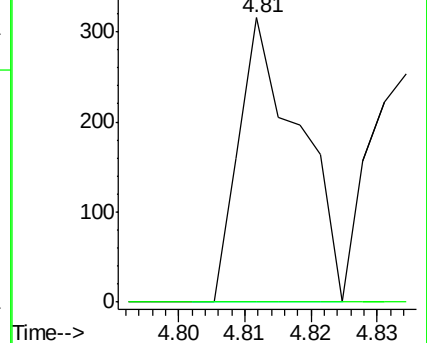
59 100

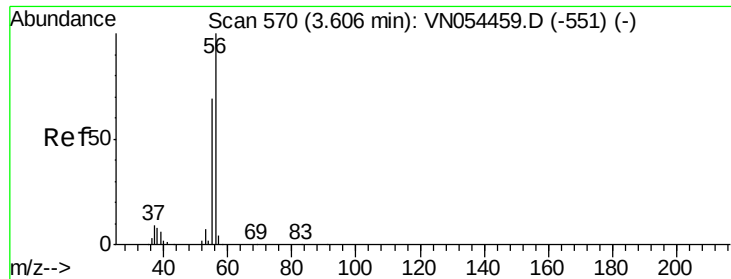
57 0.0 9.0 13.6#



Abundance Ion 59.00 (58.70 to 59.70): VNO

Ion 57.00 (56.70 to 57.70): VNO





#13

Acrolein

Concen: 0.254 ug/l

RT: 3.62 min Scan# 573

Delta R.T. 0.01 min

Lab File: VN054673.D

Acq: 25 Mar 2019 15:26

Instrument :

MSVOA_N

ClientSampled :

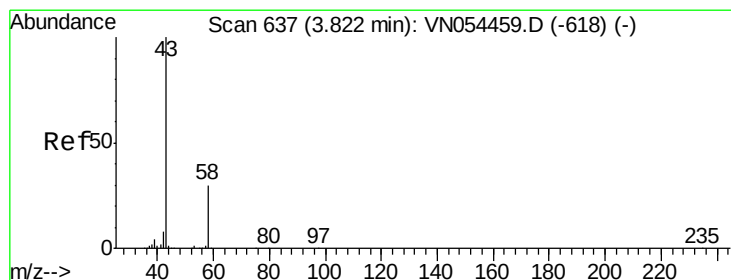
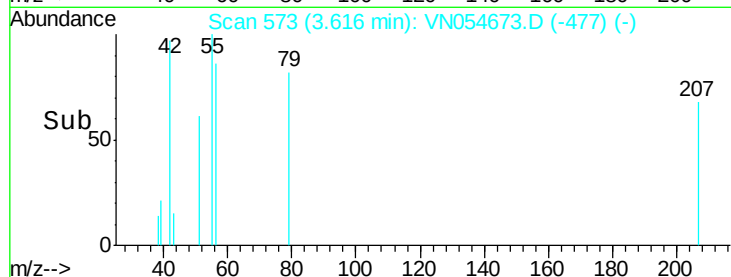
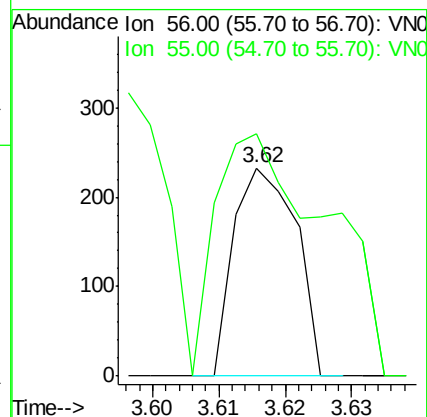
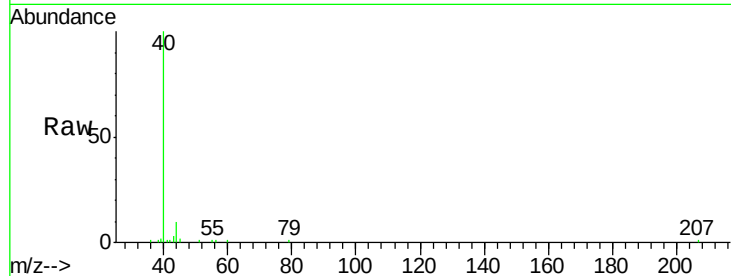
CS-1

Tot Ion: 56 Resp: 152

Ion Ratio Lower Upper

56 100

55 206.6 56.7 85.1#



#16

Acetone

Concen: 6.757 ug/l

RT: 3.82 min Scan# 637

Delta R.T. -0.00 min

Lab File: VN054673.D

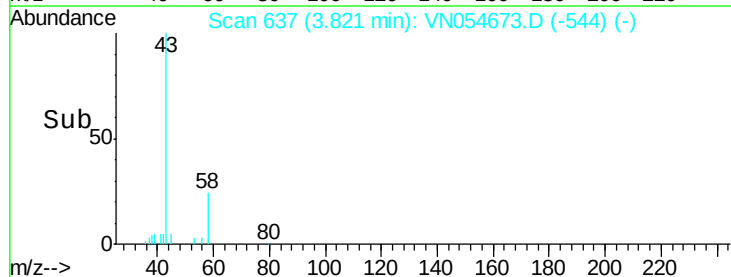
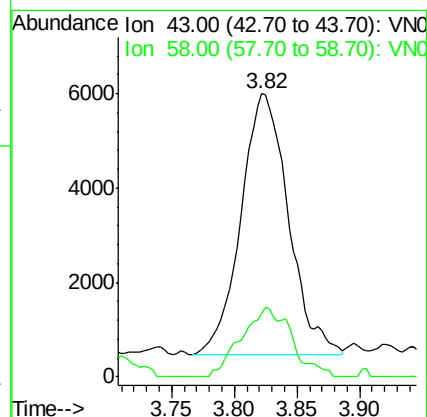
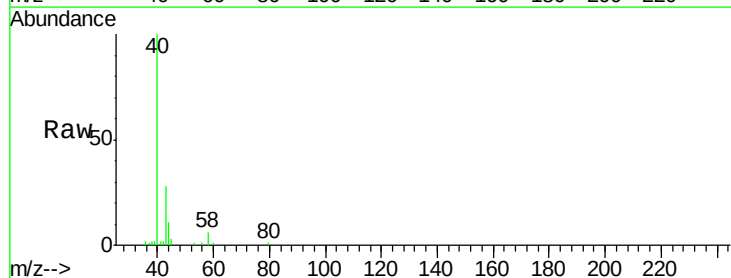
Acq: 25 Mar 2019 15:26

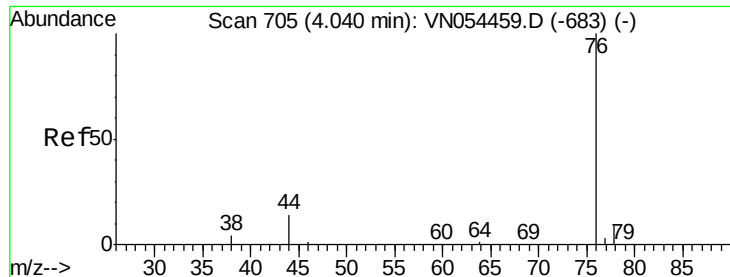
Tgt Ion: 43 Resp: 14561

Ion Ratio Lower Upper

43 100

58 24.1 29.9 44.9#





#17

Carbon Disulfide

Concen: 0.853 ug/l

RT: 4.04 min Scan# 706

Delta R.T. 0.00 min

Lab File: VN054673.D

Acq: 25 Mar 2019 15:26

Instrument :

MSVOA_N

ClientSampled :

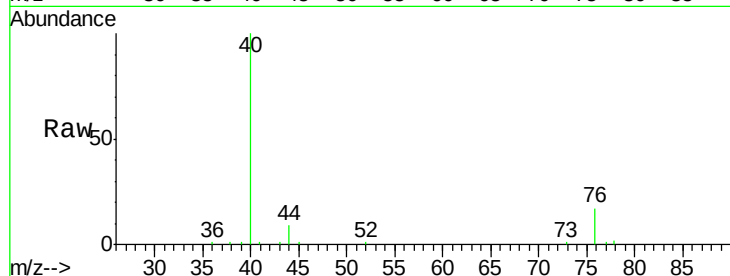
CS-1

Tot Ion: 76 Resp: 12703

Ion Ratio Lower Upper

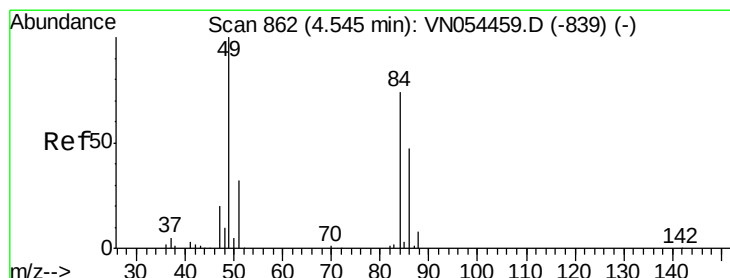
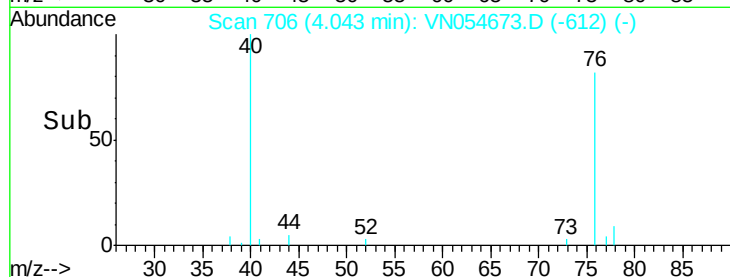
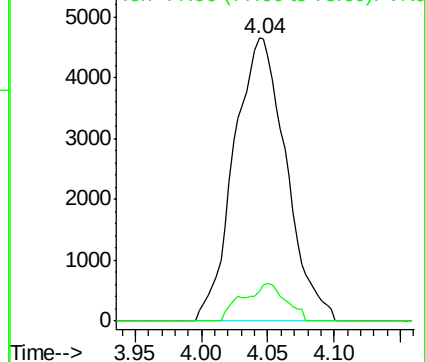
76 100

78 10.6 7.5 11.3



Abundance Ion 75.90 (75.60 to 76.60): VNO

Ion 77.90 (77.60 to 78.60): VNO



#20

Methylene Chloride

Concen: 2.530 ug/l

RT: 4.55 min Scan# 863

Delta R.T. 0.00 min

Lab File: VN054673.D

Acq: 25 Mar 2019 15:26

Tgt Ion: 84 Resp: 16072

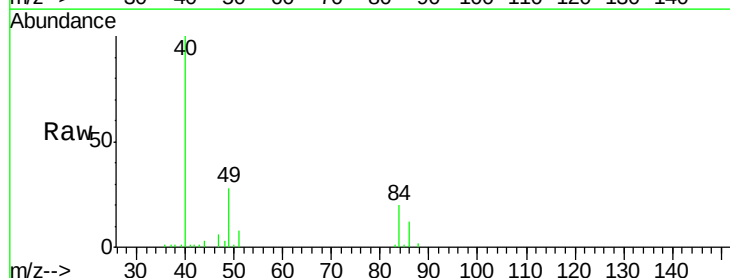
Ion Ratio Lower Upper

84 100

49 142.5 89.7 134.5#

51 38.7 28.2 42.4

86 62.4 50.8 76.2

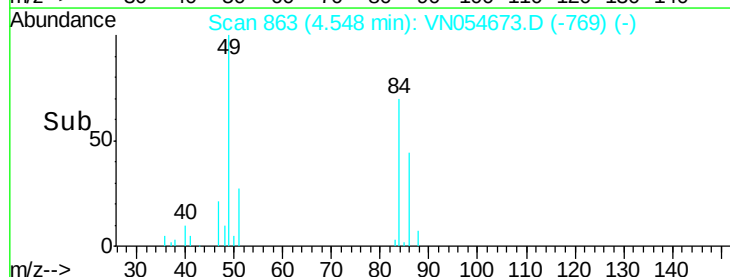
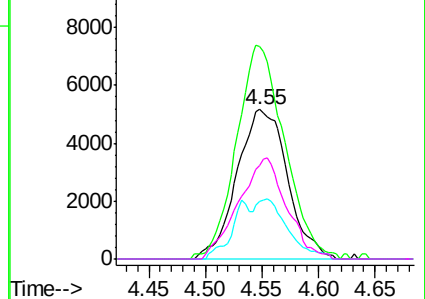


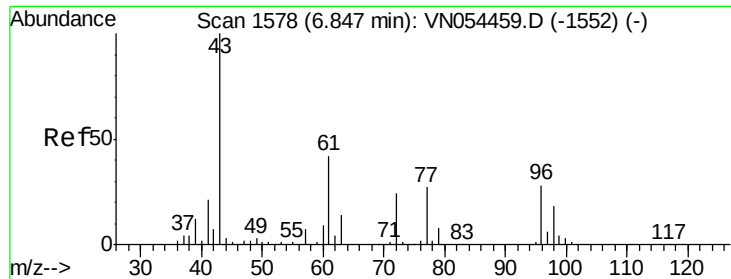
Abundance Ion 83.90 (83.60 to 84.60): VNO

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

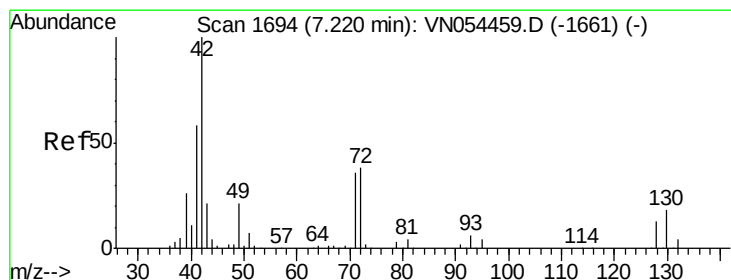
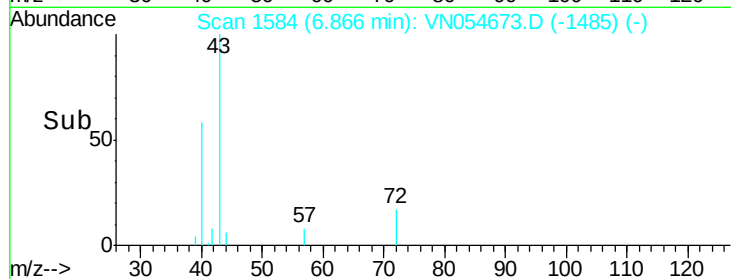
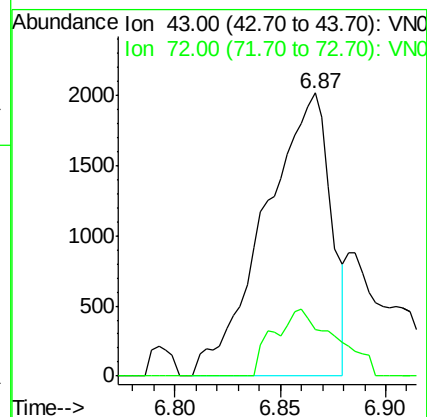
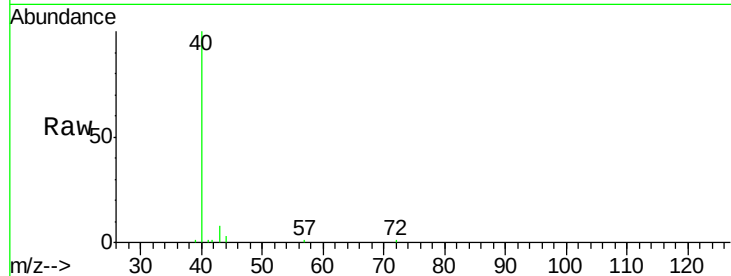




#25
2-Butanone
Concen: 1.584 ug/l
RT: 6.87 min Scan# 1584
Delta R.T. 0.02 min
Lab File: VN054673.D
Acq: 25 Mar 2019 15:26

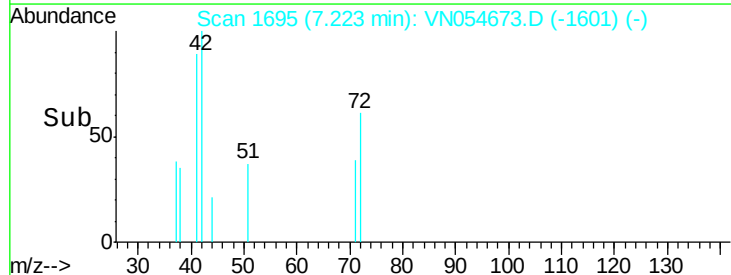
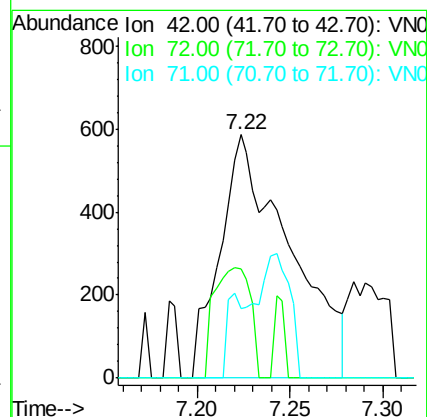
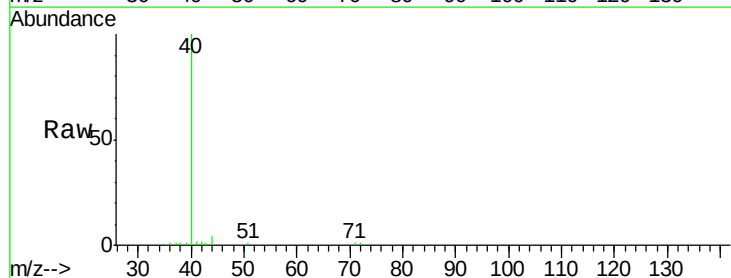
Instrument :
MSVOA_N
ClientSampled :
CS-1

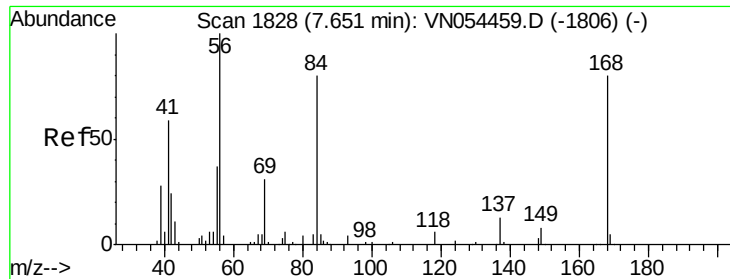
Tot Ion: 43 Resp: 4372
Ion Ratio Lower Upper
43 100
72 16.7 23.0 34.6#



#29
Tetrahydrofuran
Concen: 0.851 ug/l
RT: 7.22 min Scan# 1695
Delta R.T. 0.00 min
Lab File: VN054673.D
Acq: 25 Mar 2019 15:26

Tgt Ion: 42 Resp: 1524
Ion Ratio Lower Upper
42 100
72 23.5 37.8 56.6#
71 9.3 36.2 54.2#





#31

Cyclohexane

Concen: Below Cal

RT: 7.66 min Scan# 1831

Delta R.T. 0.01 min

Lab File: VN054673.D

Acq: 25 Mar 2019 15:26

Instrument :

MSVOA_N

ClientSampled :

CS-1

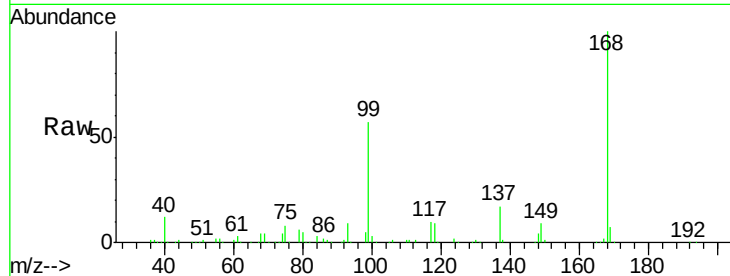
Tot Ion: 56 Resp: 12110

Ion Ratio Lower Upper

56 100

69 166.2 27.8 41.6#

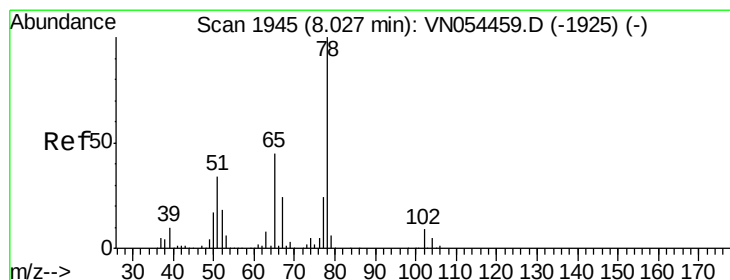
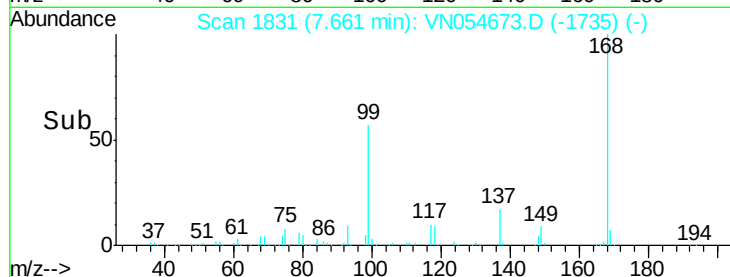
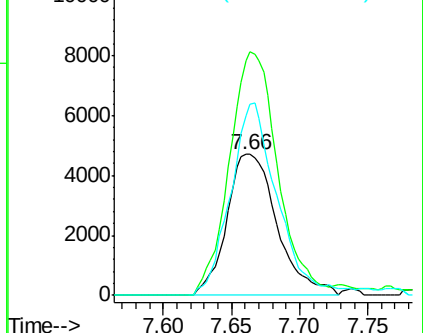
84 127.5 74.6 111.8#



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: 52.601 ug/l

RT: 8.03 min Scan# 1945

Delta R.T. -0.00 min

Lab File: VN054673.D

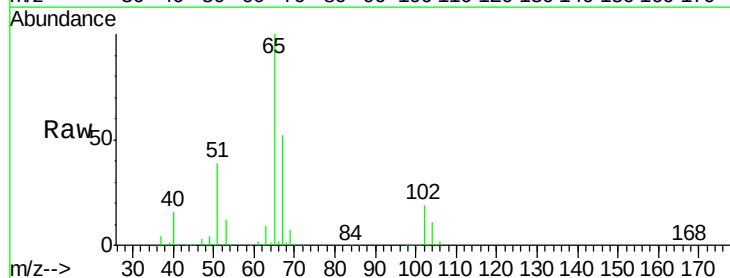
Acq: 25 Mar 2019 15:26

Tgt Ion: 65 Resp: 377020

Ion Ratio Lower Upper

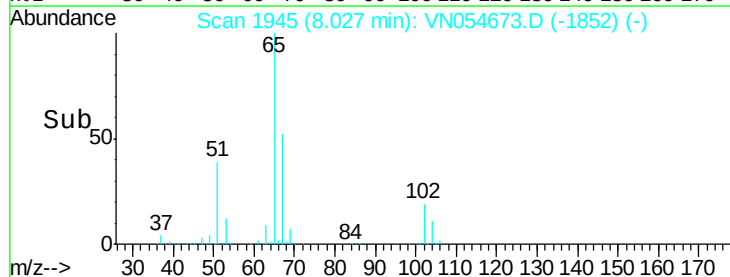
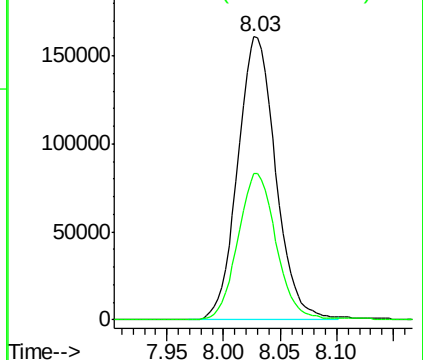
65 100

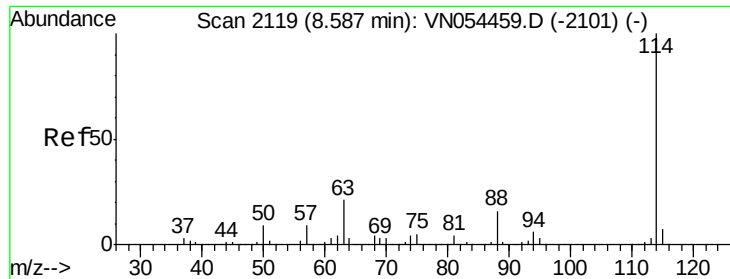
67 52.2 0.0 104.6



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: VN054673.D

Acq: 25 Mar 2019 15:26

Instrument :

MSVOA_N

ClientSampled :

CS-1

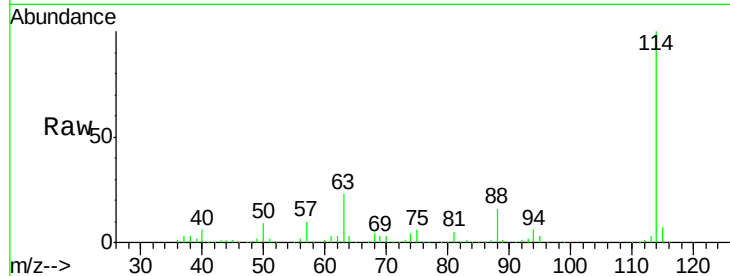
Tot Ion:114 Resp: 937430

Ion Ratio Lower Upper

114 100

63 22.6 0.0 35.2

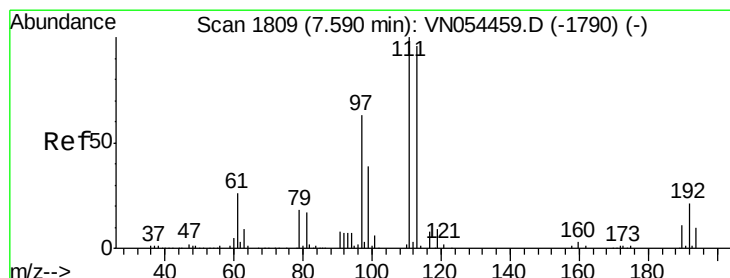
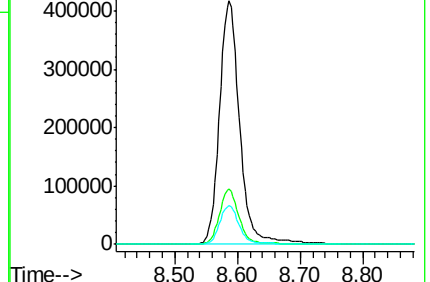
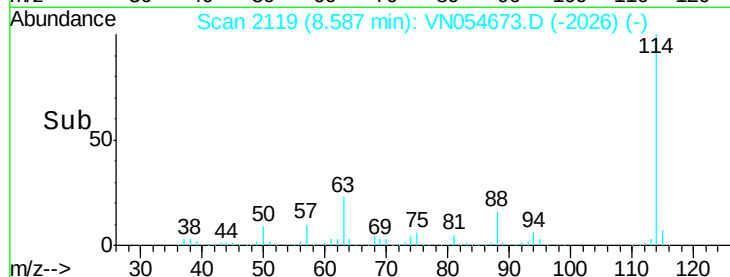
88 15.9 0.0 30.2



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN0

Ion 87.90 (87.60 to 88.60): VN0



#35

Dibromofluoromethane

Concen: 50.698 ug/l

RT: 7.59 min Scan# 1809

Delta R.T. -0.00 min

Lab File: VN054673.D

Acq: 25 Mar 2019 15:26

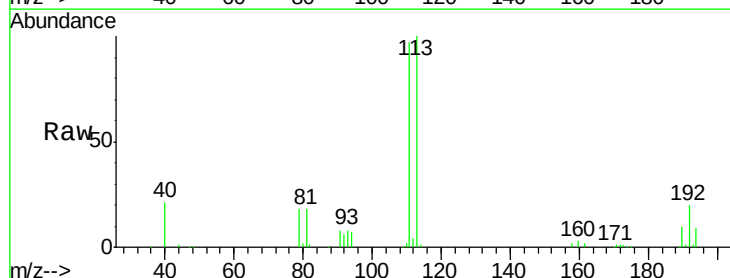
Tgt Ion:113 Resp: 306186

Ion Ratio Lower Upper

113 100

111 98.8 82.2 123.4

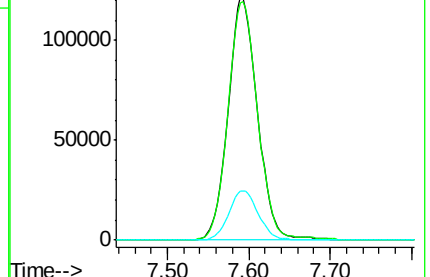
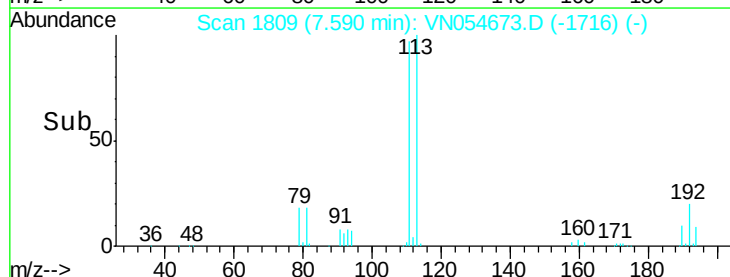
192 20.4 19.2 28.8

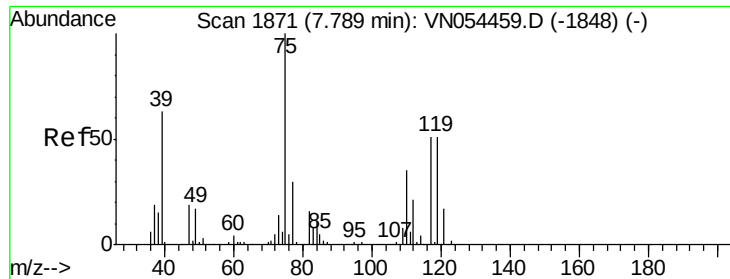


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

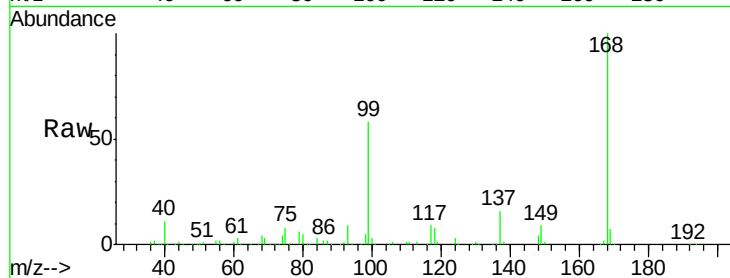




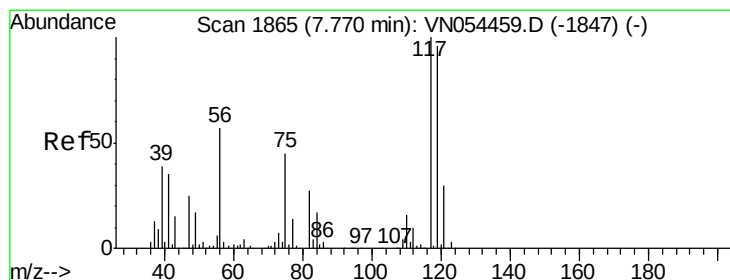
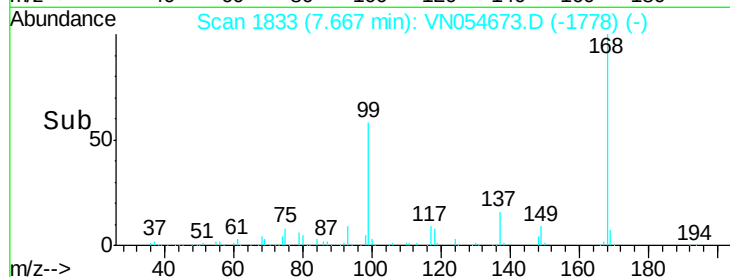
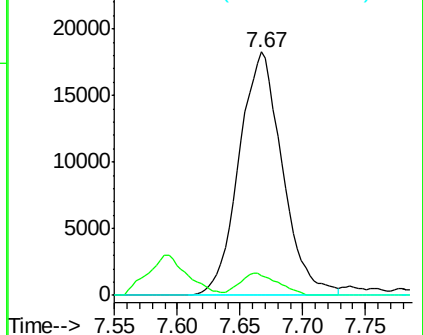
#36
 1,1-Dichloropropene
 Concen: 5.021 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.12 min
 Lab File: VN054673.D
 Acq: 25 Mar 2019 15:26

Instrument :
 MSVOA_N
 ClientSampleId :
 CS-1

Tot Ion: 75 Resp: 44010
 Ion Ratio Lower Upper
 75 100
 110 8.1 19.1 57.5#
 77 0.0 25.0 37.4#

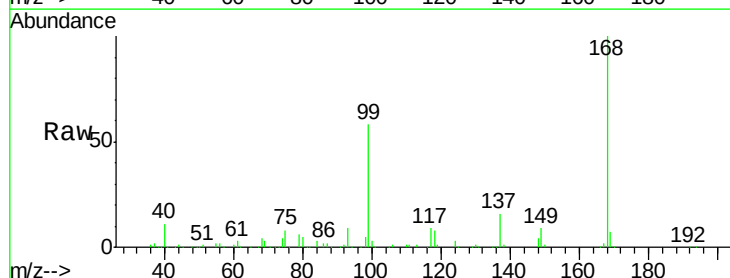


Abundance Ion 74.90 (74.60 to 75.60): VN054459.D (-1848) (-)
 Ion 109.90 (109.60 to 110.60): VN054459.D (-1848) (-)
 Ion 76.90 (76.60 to 77.60): VN054459.D (-1848) (-)

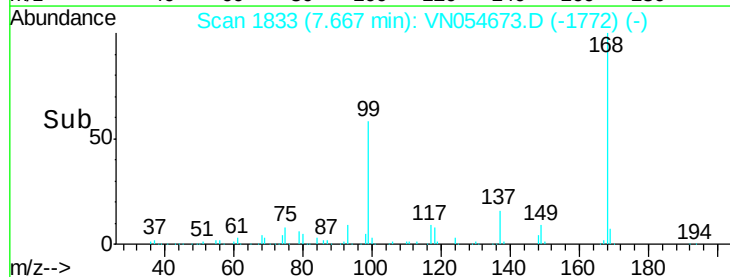
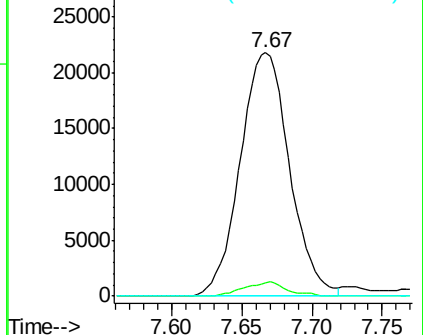


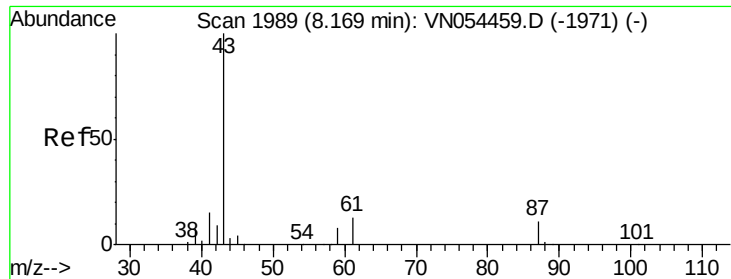
#38
 Carbon Tetrachloride
 Concen: 6.274 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.10 min
 Lab File: VN054673.D
 Acq: 25 Mar 2019 15:26

Tgt Ion: 117 Resp: 53438
 Ion Ratio Lower Upper
 117 100
 119 5.5 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: 1.488 ug/l

RT: 8.17 min Scan# 1989

Delta R.T. -0.00 min

Lab File: VN054673.D

Acq: 25 Mar 2019 15:26

Instrument :

MSVOA_N

ClientSampleId :

CS-1

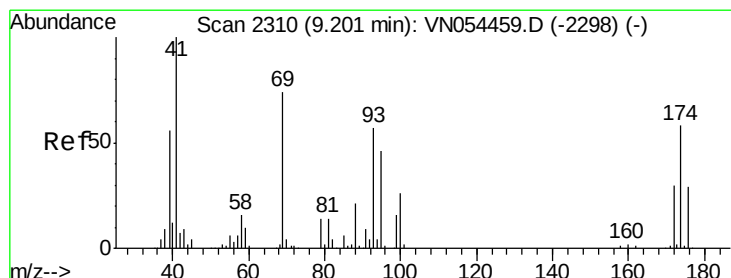
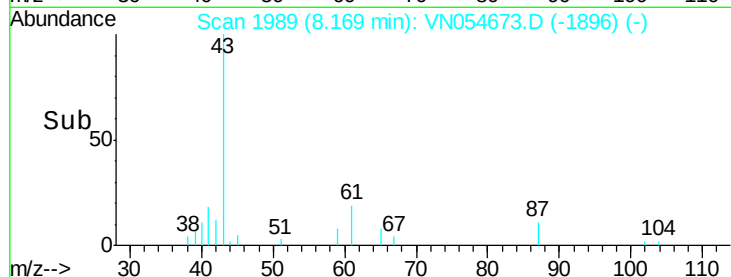
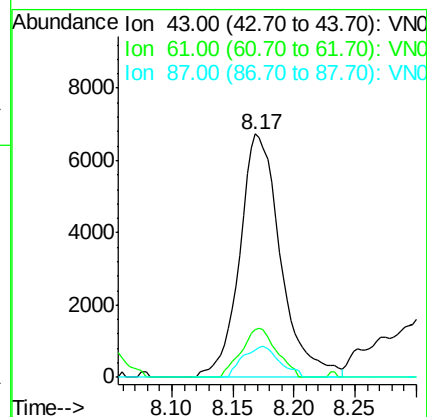
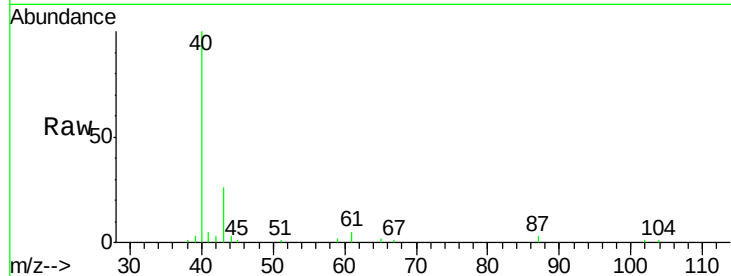
Tot Ion: 43 Resp: 15665

Ion Ratio Lower Upper

43 100

61 17.2 15.8 23.8

87 11.3 12.0 18.0#



#48

Methyl methacrylate

Concen: 1.223 ug/l

RT: 9.18 min Scan# 2305

Delta R.T. -0.02 min

Lab File: VN054673.D

Acq: 25 Mar 2019 15:26

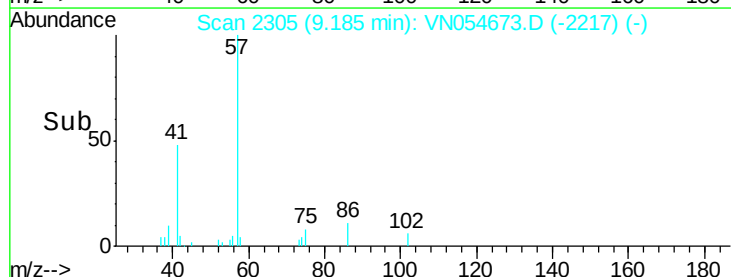
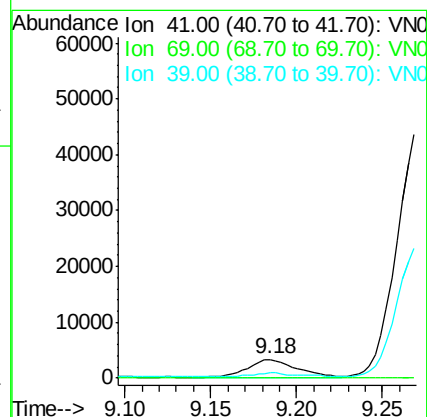
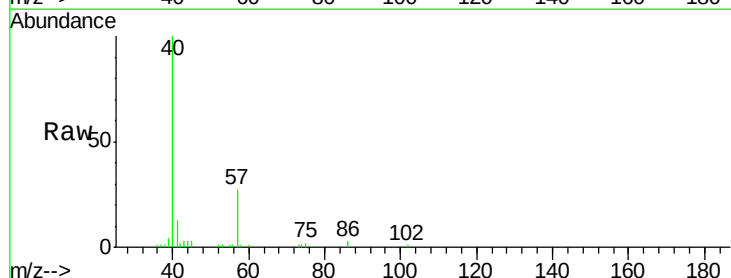
Tgt Ion: 41 Resp: 6989

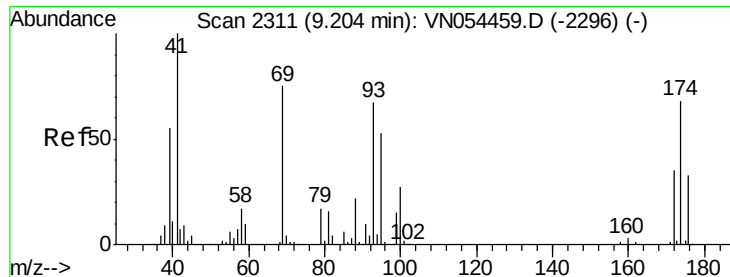
Ion Ratio Lower Upper

41 100

69 0.0 72.6 108.8#

39 0.0 47.5 71.3#





#49

1,4-Dioxane

Concen: 1.644 ug/l

RT: 9.26 min Scan# 2328

Delta R.T. 0.05 min

Lab File: VN054673.D

Acq: 25 Mar 2019 15:26

Instrument :

MSVOA_N

ClientSampleId :

CS-1

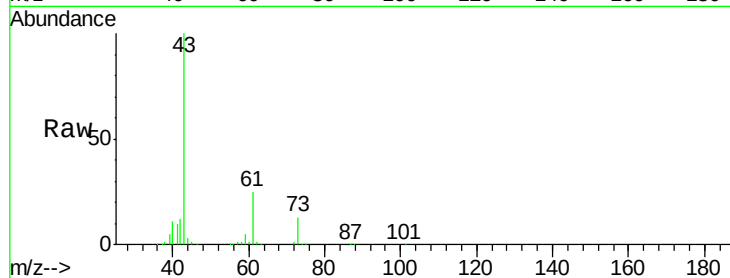
Tot Ion: 88 Resp: 105

Ion Ratio Lower Upper

88 100

43 864313.3 24.1 36.1#

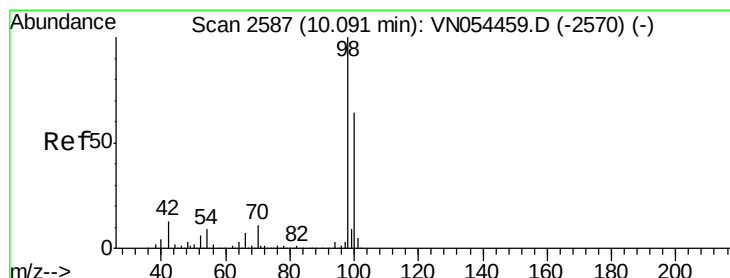
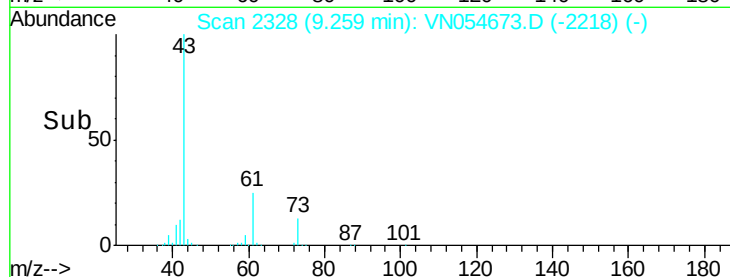
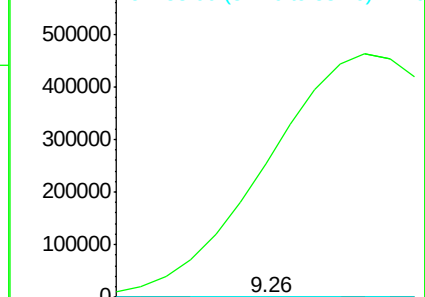
58 3614.3 50.8 76.2#



Abundance Ion 88.00 (87.70 to 88.70): VN0

Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#50

Toluene-d8

Concen: 49.212 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN054673.D

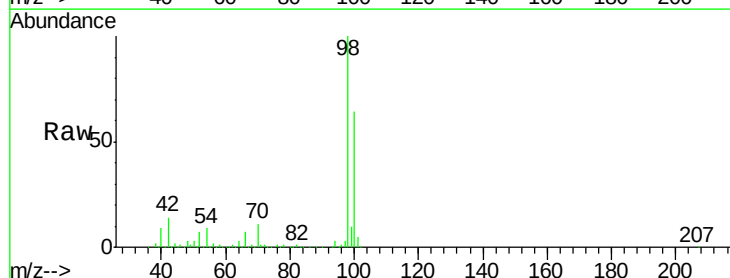
Acq: 25 Mar 2019 15:26

Tgt Ion: 98 Resp: 1117335

Ion Ratio Lower Upper

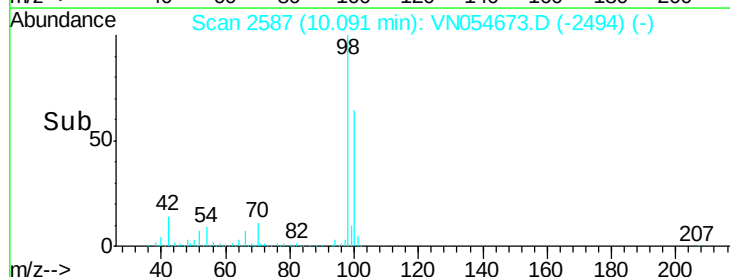
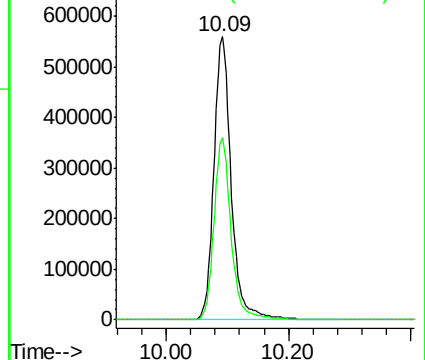
98 100

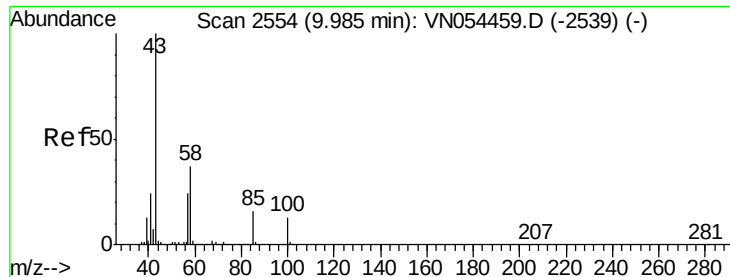
100 63.9 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0

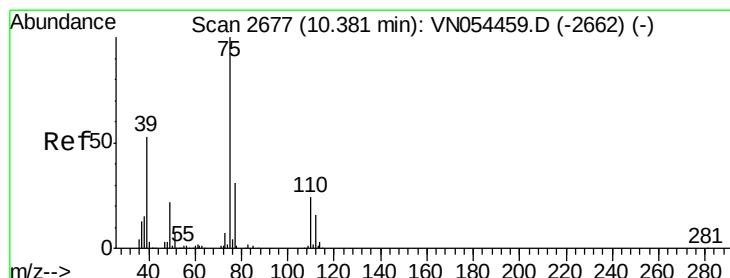
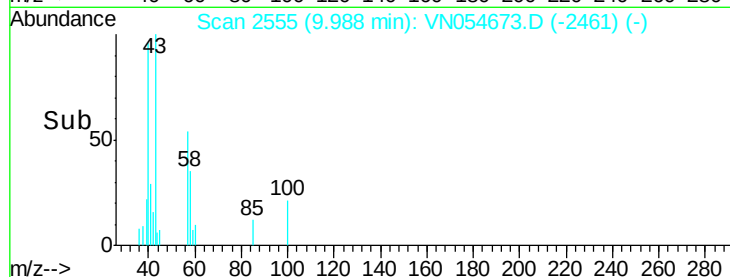
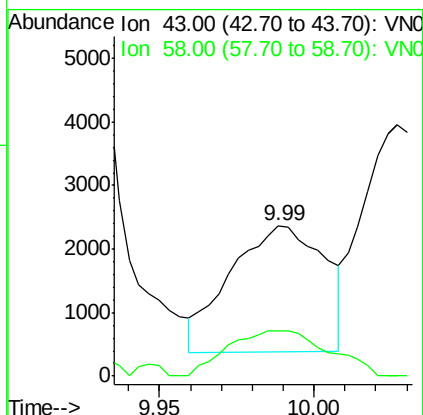
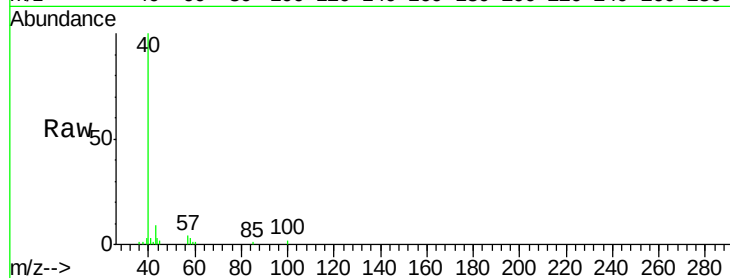




#51
4-Methyl-2-Pentanone
Concen: 0.717 ug/l
RT: 9.99 min Scan# 2555
Delta R.T. 0.00 min
Lab File: VN054673.D
Acq: 25 Mar 2019 15:26

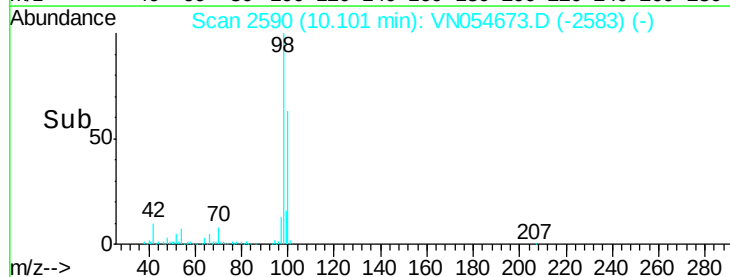
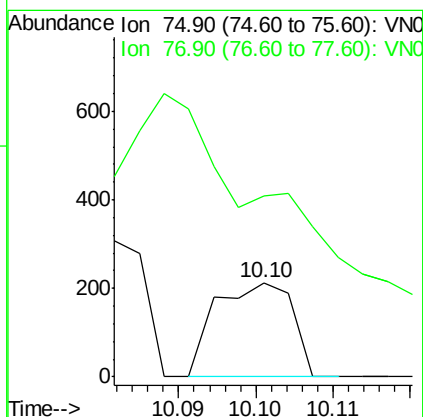
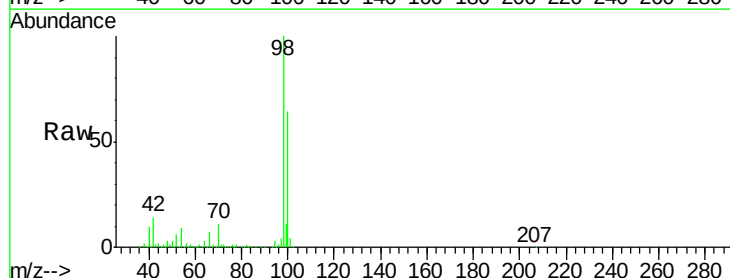
Instrument :
MSVOA_N
ClientSampled :
CS-1

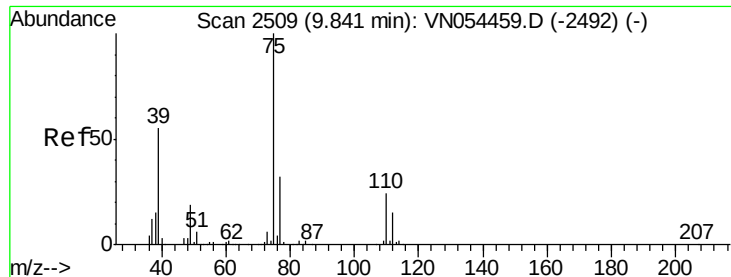
Tot Ion: 43 Resp: 4185
Ion Ratio Lower Upper
43 100
58 38.6 31.8 47.6



#53
t-1,3-Dichloropropene
Concen: 2.248 ug/l
RT: 10.10 min Scan# 2590
Delta R.T. -0.28 min
Lab File: VN054673.D
Acq: 25 Mar 2019 15:26

Tgt Ion: 75 Resp: 147
Ion Ratio Lower Upper
75 100
77 65.7 25.8 38.8#



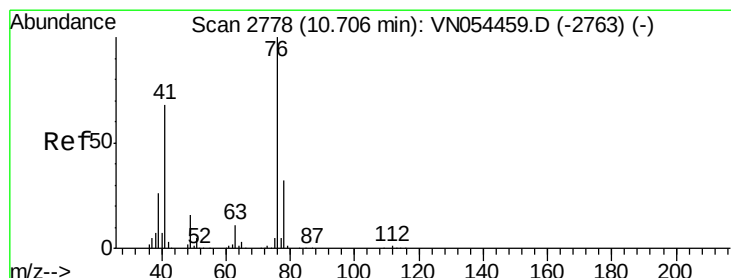
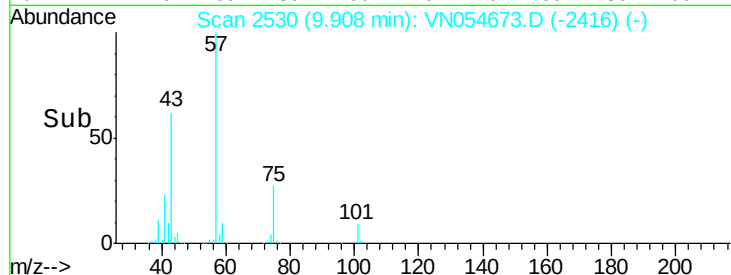
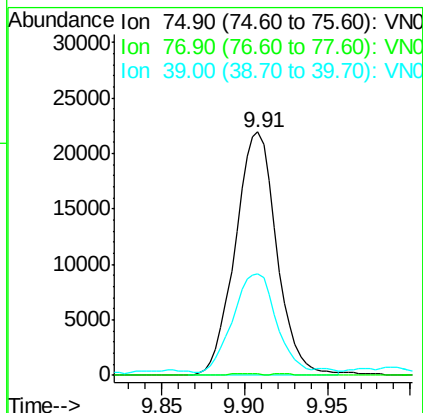
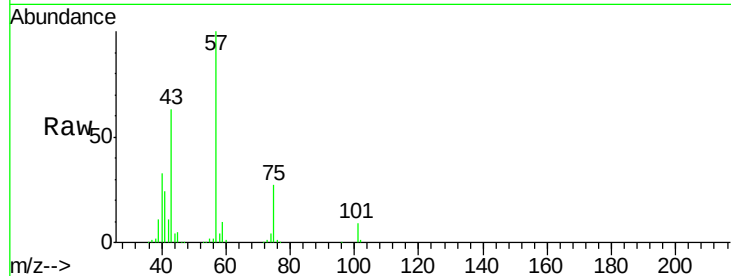


#54

cis-1,3-Dichloropropene
 Concen: 3.990 ug/l
 RT: 9.91 min Scan# 2530
 Delta R.T. 0.07 min
 Lab File: VN054673.D
 Acq: 25 Mar 2019 15:26

Instrument :
 MSVOA_N
 ClientSampleId :
 CS-1

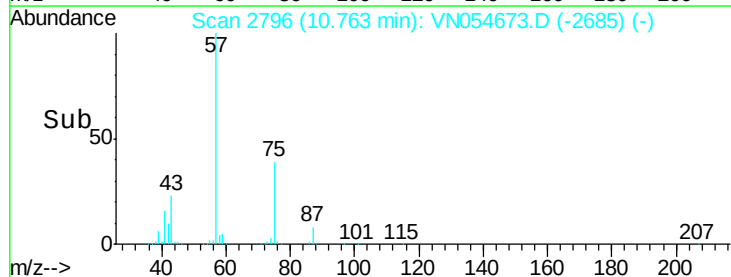
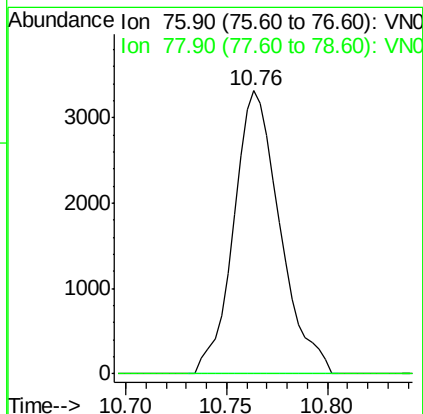
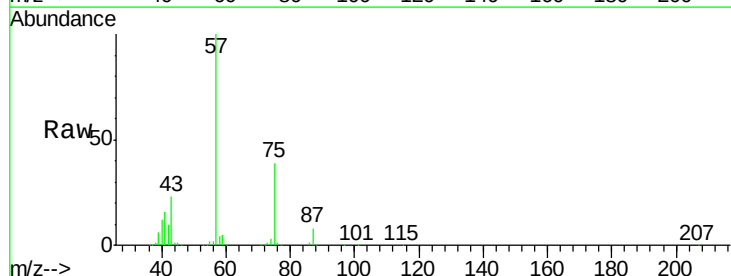
Tot Ion: 75 Resp: 38124
 Ion Ratio Lower Upper
 75 100
 77 0.7 25.4 38.0#
 39 40.2 37.2 55.8

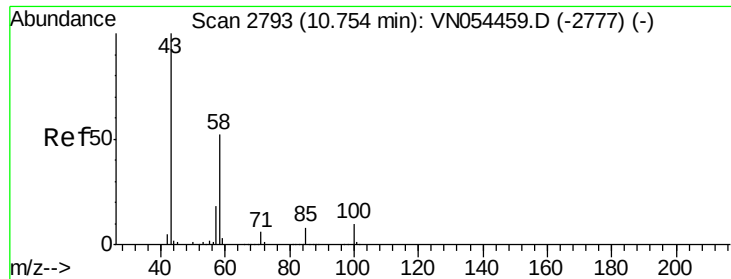


#57

1,3-Dichloropropane
 Concen: 0.552 ug/l
 RT: 10.76 min Scan# 2796
 Delta R.T. 0.06 min
 Lab File: VN054673.D
 Acq: 25 Mar 2019 15:26

Tgt Ion: 76 Resp: 5322
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.7 38.5#

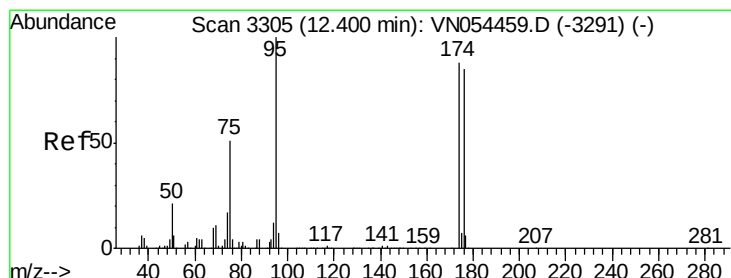
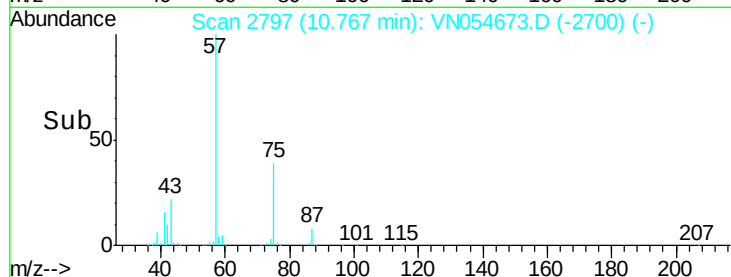
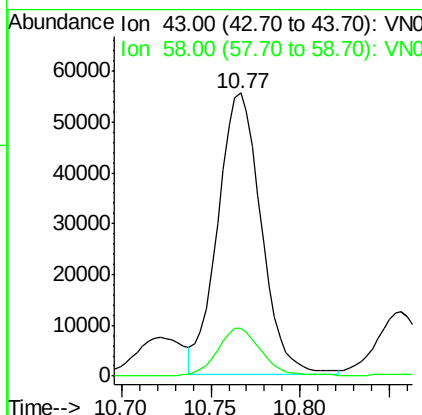
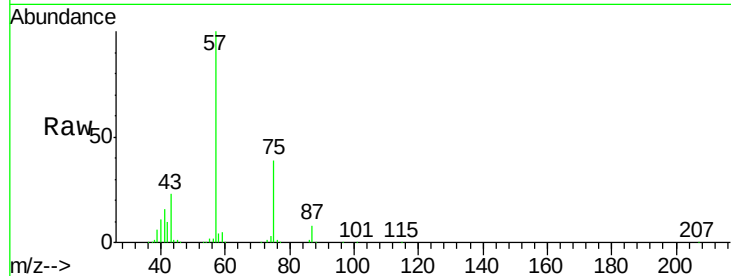




#59
2-Hexanone
Concen: 24.681 ug/l
RT: 10.77 min Scan# 2797
Delta R.T. 0.01 min
Lab File: VN054673.D
Acq: 25 Mar 2019 15:26

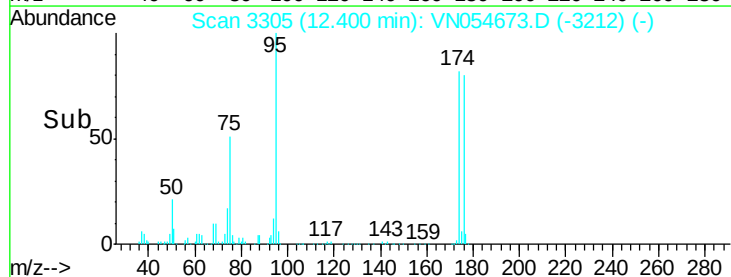
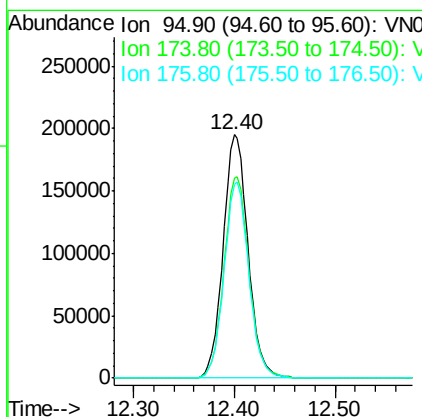
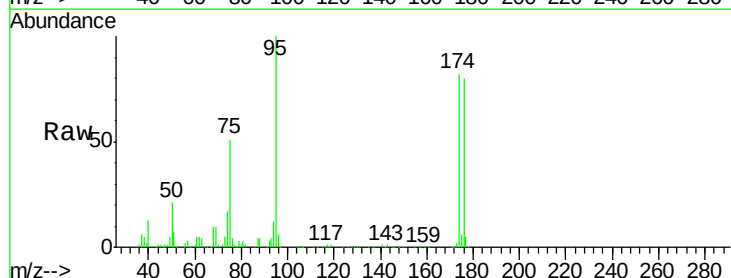
Instrument :
MSVOA_N
ClientSampled :
CS-1

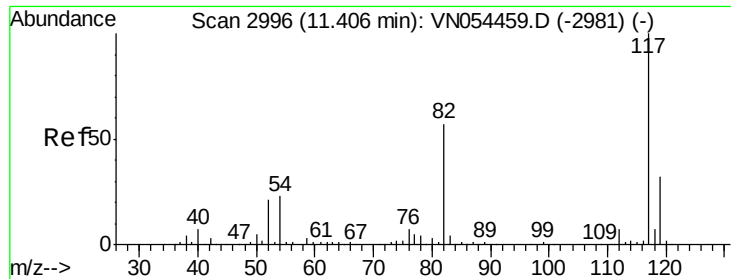
Tot Ion: 43 Resp: 94064
Ion Ratio Lower Upper
43 100
58 17.3 28.0 83.9#



#62
4-Bromofluorobenzene
Concen: 43.532 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. -0.00 min
Lab File: VN054673.D
Acq: 25 Mar 2019 15:26

Tgt Ion: 95 Resp: 336324
Ion Ratio Lower Upper
95 100
174 83.2 0.0 191.0
176 80.3 0.0 187.4

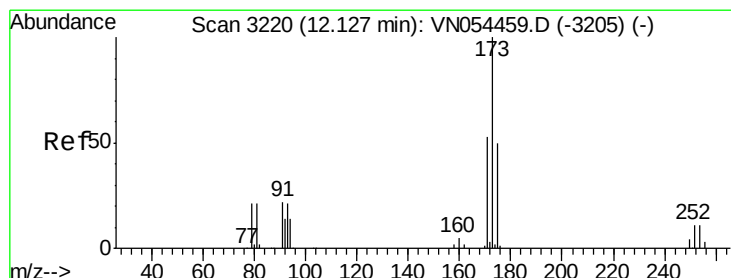
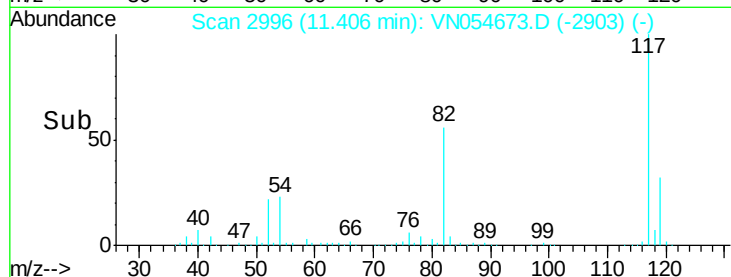
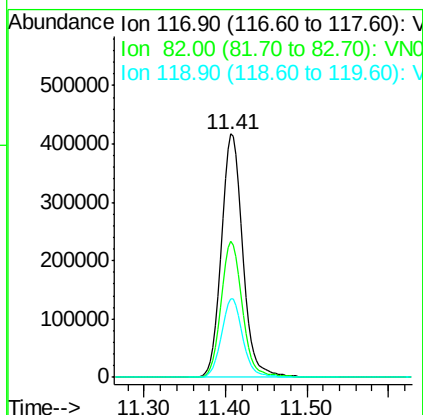
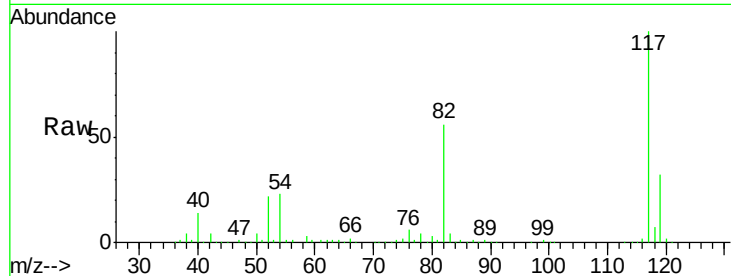




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN054673.D
Acq: 25 Mar 2019 15:26

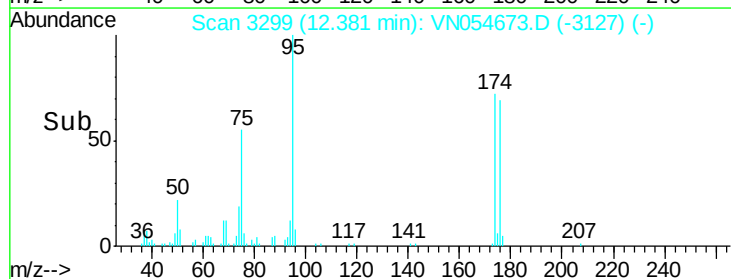
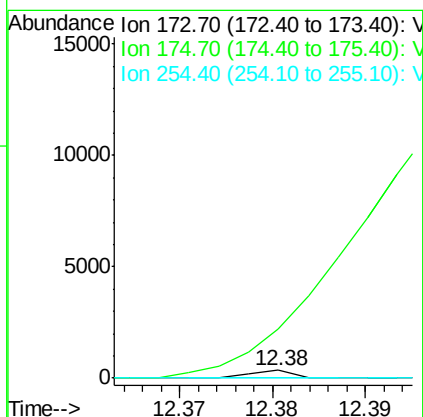
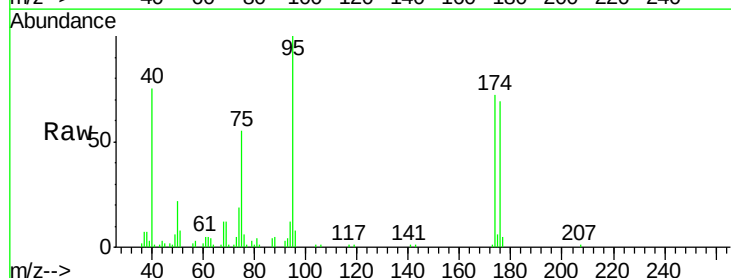
Instrument :
MSVOA_N
ClientSampled :
CS-1

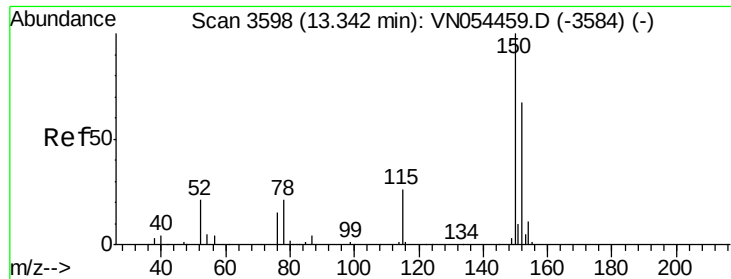
Tot Ion:117 Resp: 779018
Ion Ratio Lower Upper
117 100
82 55.9 40.0 60.0
119 32.4 25.8 38.6



#71
Bromoform
Concen: 2.246 ug/l
RT: 12.38 min Scan# 3299
Delta R.T. 0.25 min
Lab File: VN054673.D
Acq: 25 Mar 2019 15:26

Tgt Ion:173 Resp: 105
Ion Ratio Lower Upper
173 100
175 0.0 24.4 73.2#
254 0.0 0.1 0.1#



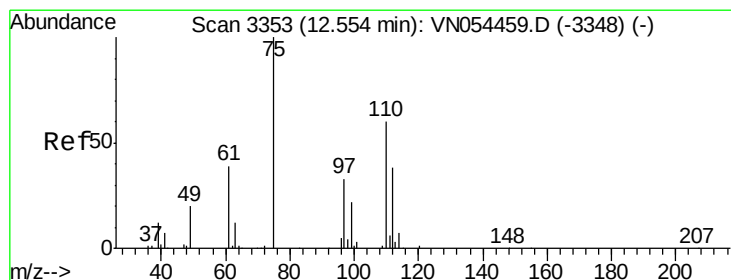
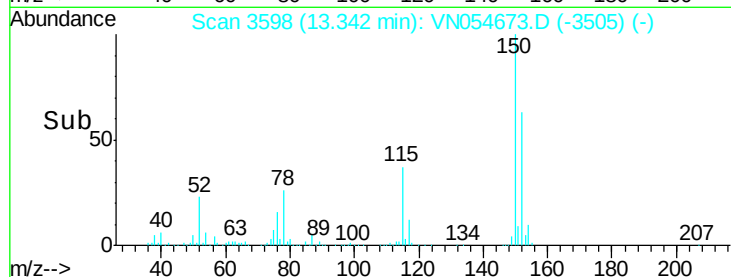
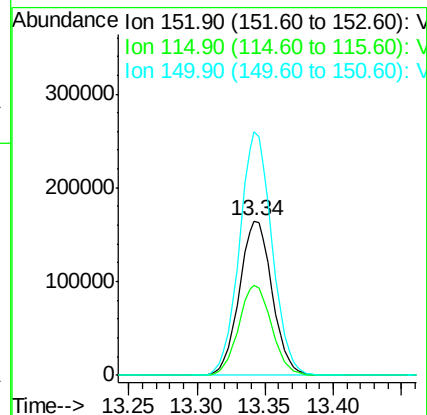
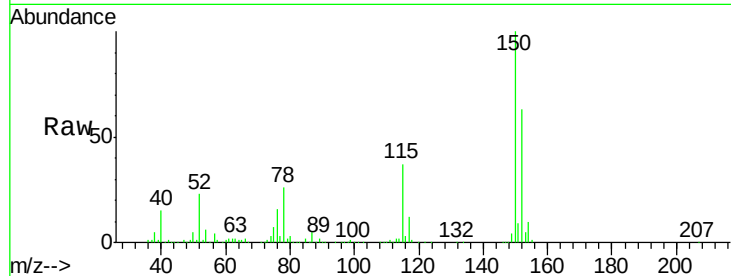


#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3598
Delta R.T. -0.00 min
Lab File: VN054673.D
Acq: 25 Mar 2019 15:26

Instrument :
MSVOA_N
ClientSampled :
CS-1

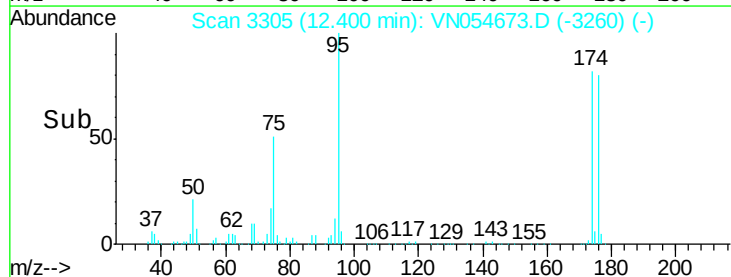
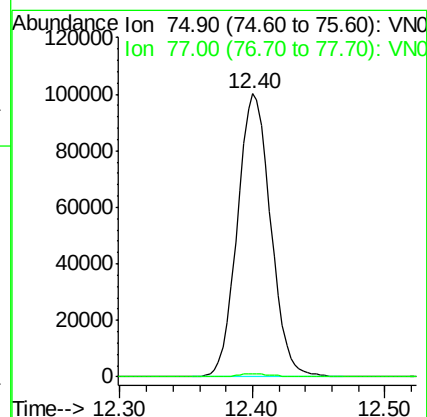
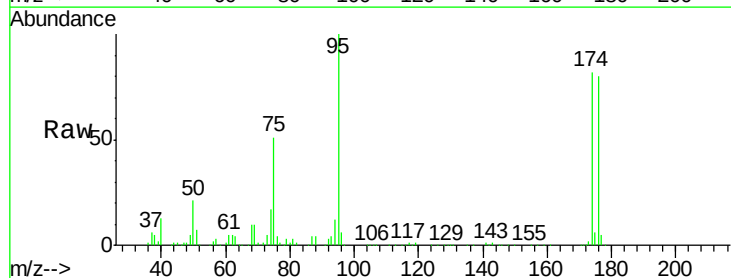
Tot Ion:152 Resp: 274668
Ion Ratio Lower Upper
152 100
115 58.6 27.2 81.6
150 156.5 0.0 349.2

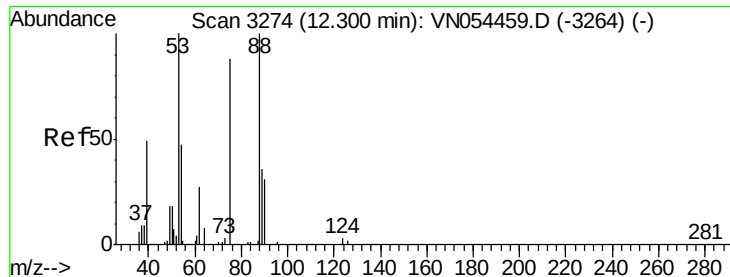


#76

1,2,3-Trichloropropane
Concen: 40.024 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. -0.15 min
Lab File: VN054673.D
Acq: 25 Mar 2019 15:26

Tgt Ion: 75 Resp: 174447
Ion Ratio Lower Upper
75 100
77 1.1 0.0 0.0#





#81

trans-1,4-Dichloro-2-butene

Concen: 132.396 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN054673.D

Acq: 25 Mar 2019 15:26

Instrument :

MSVOA_N

ClientSampleId :

CS-1

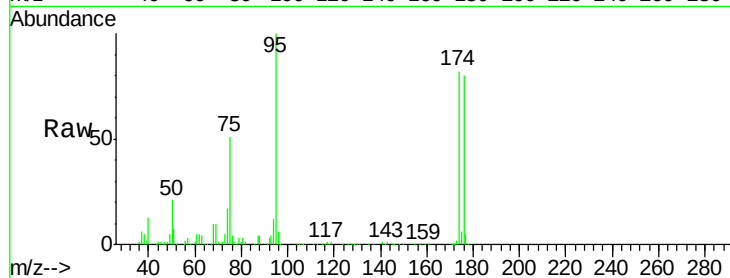
Tot Ion: 75 Resp: 174447

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

