

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN040219\
 Data File : VN054904.D
 Acq On : 2 Apr 2019 16:17
 Operator : JC/SP
 Sample : K2213-10
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

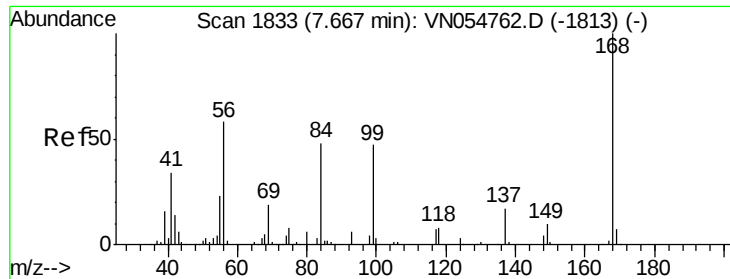
Quant Time: Apr 03 05:07:08 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N032919W.M
 Quant Title : SW846 8260
 QLast Update : Sat Mar 30 00:48:18 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	543230	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	904428	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	774031	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	266414	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	358769	48.99	ug/l	0.00
Spiked Amount			Recovery	=	97.98%	
35) Dibromofluoromethane	7.59	113	284593	47.20	ug/l	0.00
Spiked Amount			Recovery	=	94.40%	
50) Toluene-d8	10.09	98	1079044	48.13	ug/l	0.00
Spiked Amount			Recovery	=	96.26%	
62) 4-Bromofluorobenzene	12.40	95	327167	43.88	ug/l	0.00
Spiked Amount			Recovery	=	87.76%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.58	94	209	Below Cal	#	2
13) Acrolein	3.60	56	261	0.765	ug/l #	62
16) Acetone	3.82	43	9573	5.482	ug/l #	80
18) Methyl Acetate	4.33	43	2967	Below Cal	#	72
20) Methylene Chloride	4.55	84	11597	1.883	ug/l #	84
29) Tetrahydrofuran	7.23	42	1223	0.682	ug/l #	55
31) Cyclohexane	7.66	56	11878	Below Cal	#	31
36) 1,1-Dichloropropene	7.67	75	41571	4.933	ug/l #	48
38) Carbon Tetrachloride	7.67	117	49545	6.053	ug/l #	16
43) Isopropyl Acetate	8.17	43	14684	1.462	ug/l	96
45) 1,2-Dichloropropane	9.26	63	1590	0.231	ug/l #	43
48) Methyl methacrylate	9.18	41	7171	1.317	ug/l #	11
49) 1,4-Dioxane	9.28	88	171	3.166	ug/l #	1
51) 4-Methyl-2-Pentanone	10.03	43	8376	1.484	ug/l #	36
54) cis-1,3-Dichloropropene	9.90	75	50804	5.624	ug/l #	71
57) 1,3-Dichloropropane	10.76	76	9742	1.062	ug/l #	43
59) 2-Hexanone	10.76	43	158527	43.862	ug/l #	48
71) Bromoform	12.40	173	824	0.248	ug/l #	1
75) 1,1,2,2-Tetrachloroethane	12.39	83	138	Below Cal	#	1
76) 1,2,3-Trichloropropane	12.40	75	169627	36.651	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	169627	142.561	ug/l #	11
83) tert-Butylbenzene	12.99	119	63	Below Cal	#	28

(#) = 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: VN054904.D

Acq: 2 Apr 2019 16:17

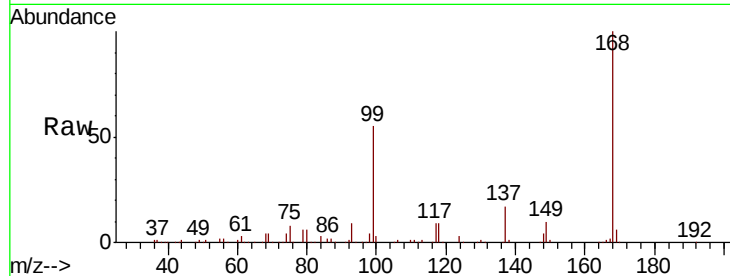
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 543230

Ion Ratio Lower Upper

168 100

99 54.6 37.1 55.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.67

250000

200000

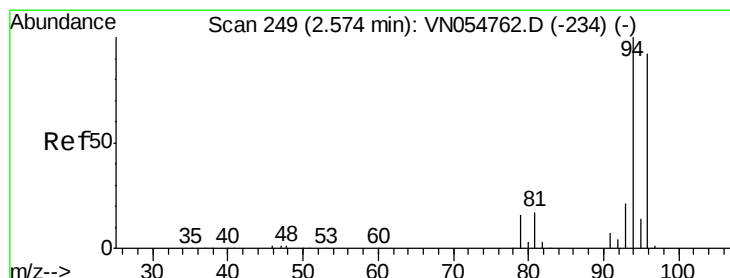
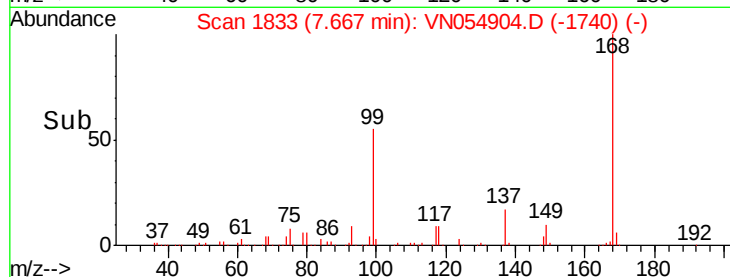
150000

100000

50000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 2.58 min Scan# 250

Delta R.T. 0.00 min

Lab File: VN054904.D

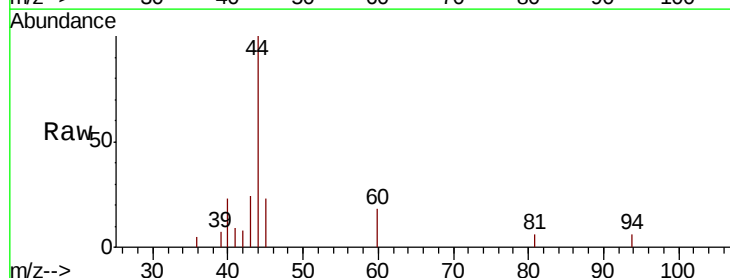
Acq: 2 Apr 2019 16:17

Tgt Ion: 94 Resp: 209

Ion Ratio Lower Upper

94 100

96 0.0 77.0 115.4#



Abundance Ion 93.90 (93.60 to 94.60): VNO

Ion 95.90 (95.60 to 96.60): VNO

250

200

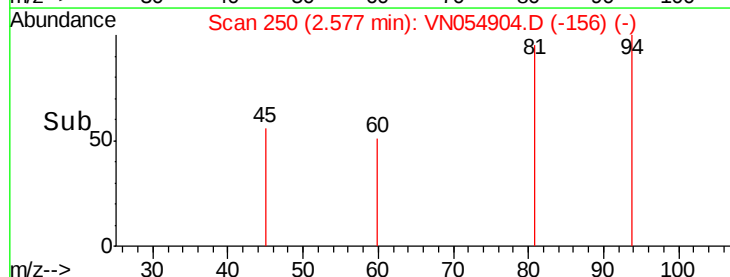
150

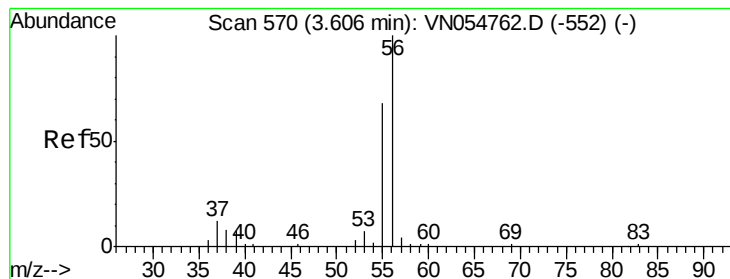
100

50

0

Time-->





#13

Acrolein

Concen: 0.765 ug/l

RT: 3.60 min Scan# 569

Delta R.T. -0.00 min

Lab File: VN054904.D

Acq: 2 Apr 2019 16:17

Instrument :

MSVOA_N

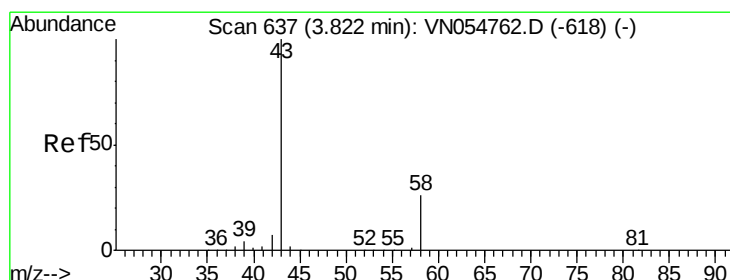
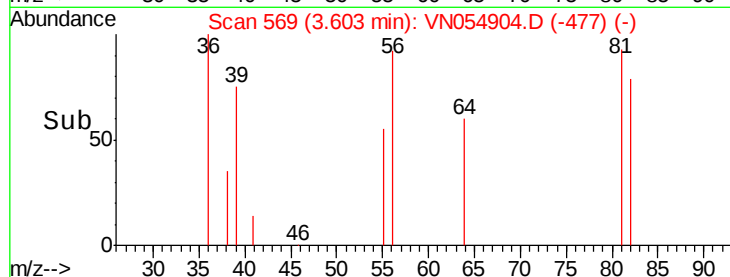
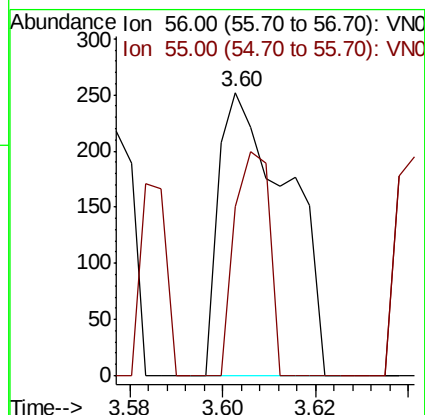
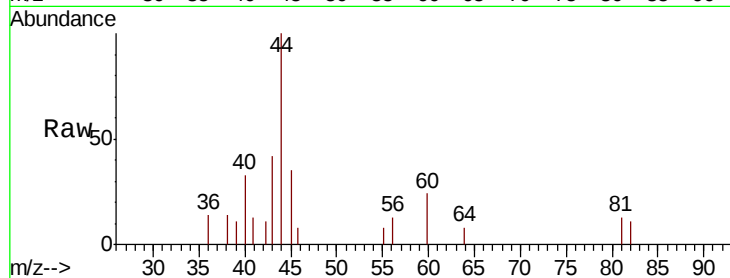
ClientSampleId :

Tot Ion: 56 Resp: 261

Ion Ratio Lower Upper

56 100

55 39.8 56.7 85.1#



#16

Acetone

Concen: 5.482 ug/l

RT: 3.82 min Scan# 638

Delta R.T. 0.00 min

Lab File: VN054904.D

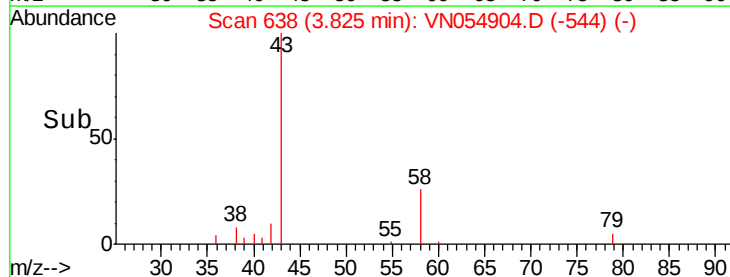
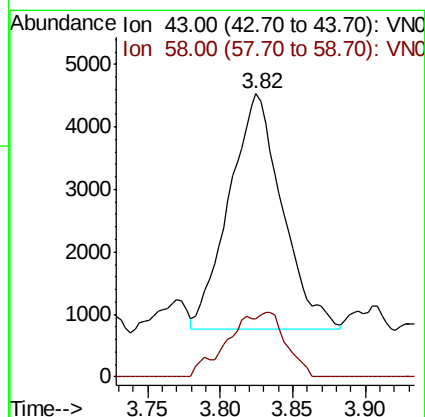
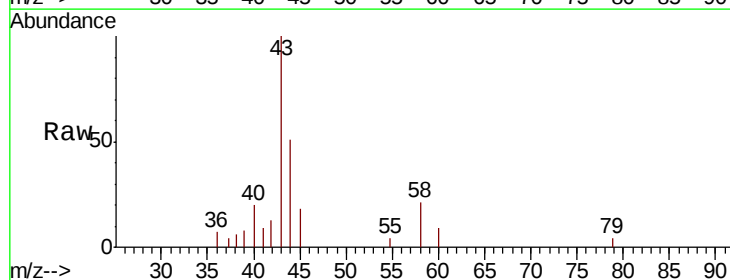
Acq: 2 Apr 2019 16:17

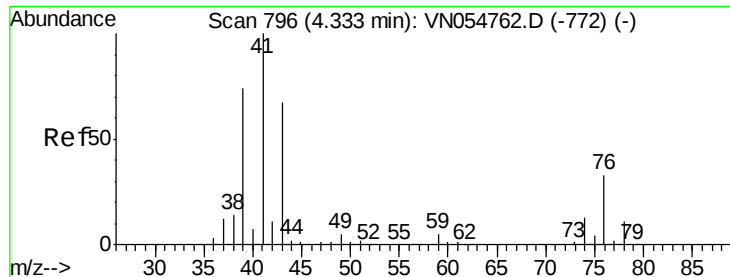
Tgt Ion: 43 Resp: 9573

Ion Ratio Lower Upper

43 100

58 25.2 29.9 44.9#

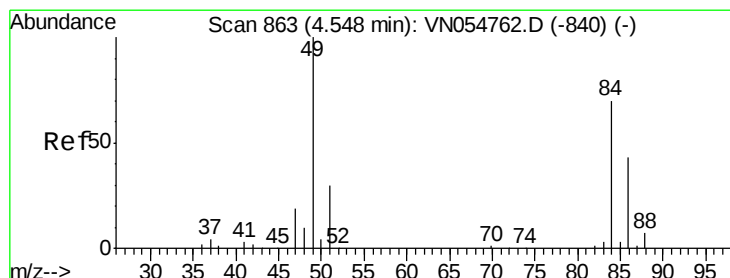
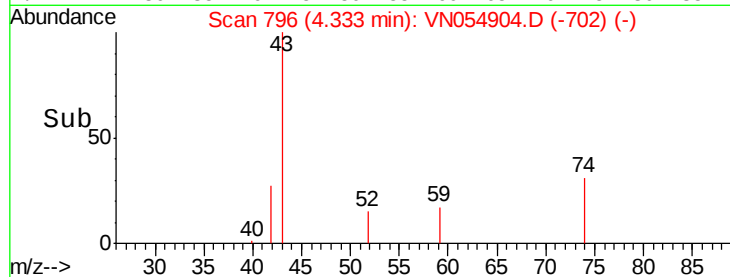
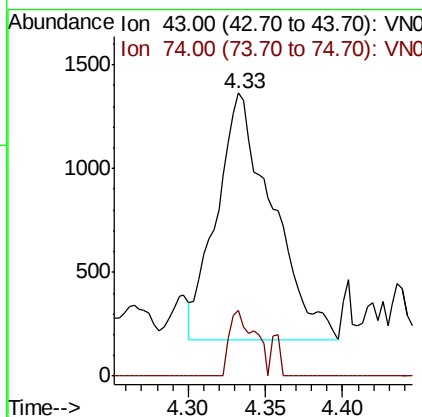
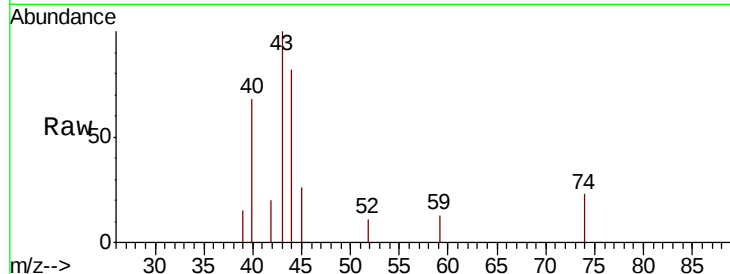




#18
Methyl Acetate
Concen: Below Cal
RT: 4.33 min Scan# 796
Delta R.T. 0.00 min
Lab File: VN054904.D
Acq: 2 Apr 2019 16:17

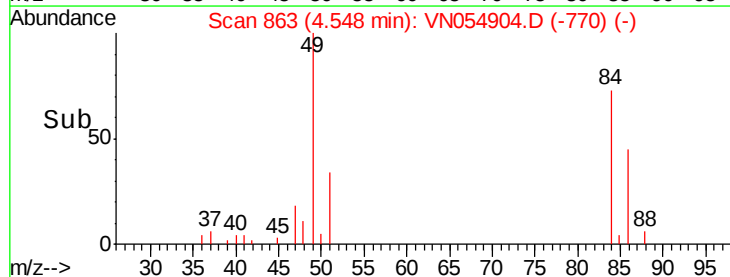
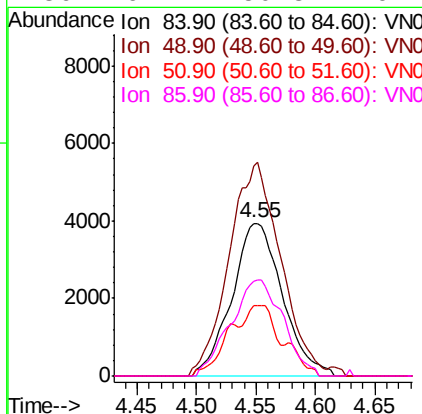
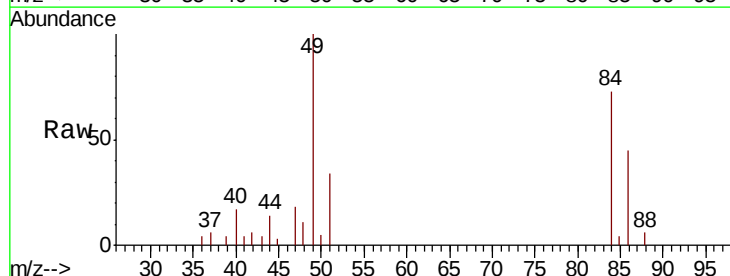
Instrument :
MSVOA_N
ClientSampled :

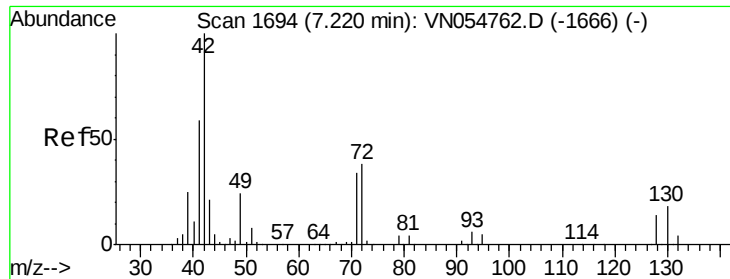
Tot Ion: 43 Resp: 2967
Ion Ratio Lower Upper
43 100
74 11.7 20.8 31.2#



#20
Methylene Chloride
Concen: 1.883 ug/l
RT: 4.55 min Scan# 863
Delta R.T. -0.00 min
Lab File: VN054904.D
Acq: 2 Apr 2019 16:17

Tgt Ion: 84 Resp: 11597
Ion Ratio Lower Upper
84 100
49 137.2 89.7 134.5#
51 46.4 28.2 42.4#
86 61.7 50.8 76.2





#29

Tetrahydrofuran

Concen: 0.682 ug/l

RT: 7.23 min Scan# 1698

Delta R.T. 0.01 min

Lab File: VN054904.D

Acq: 2 Apr 2019 16:17

Instrument :

MSVOA_N

ClientSampled :

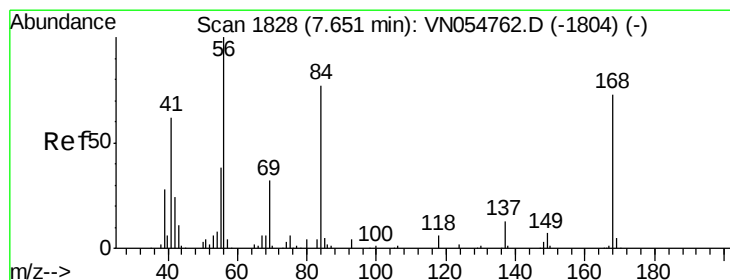
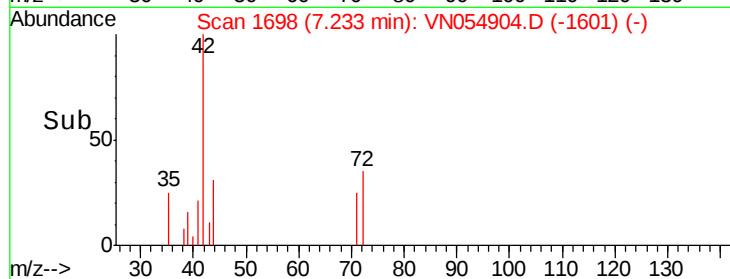
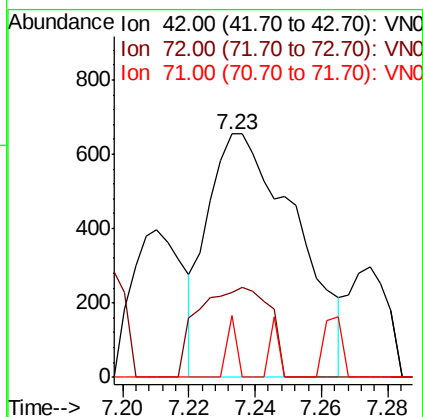
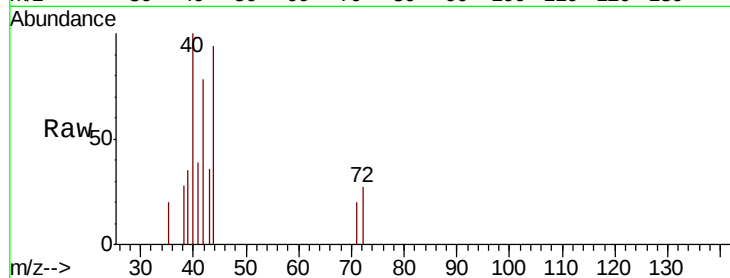
Tot Ion: 42 Resp: 1223

Ion Ratio Lower Upper

42 100

72 29.3 37.8 56.6#

71 2.6 36.2 54.2#



#31

Cyclohexane

Concen: Below Cal

RT: 7.66 min Scan# 1831

Delta R.T. 0.01 min

Lab File: VN054904.D

Acq: 2 Apr 2019 16:17

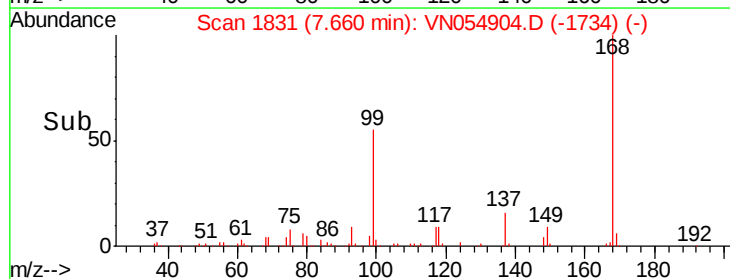
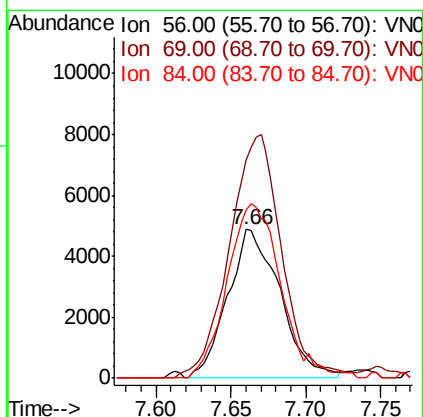
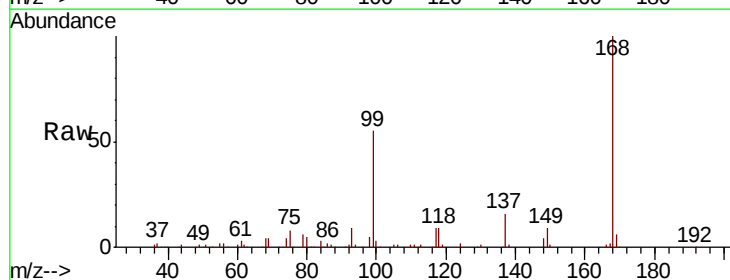
Tgt Ion: 56 Resp: 11878

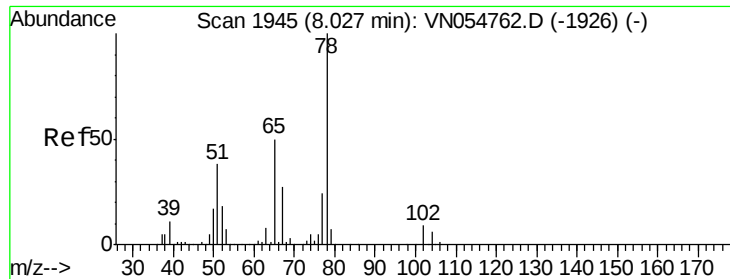
Ion Ratio Lower Upper

56 100

69 141.2 27.8 41.6#

84 117.8 74.6 111.8#

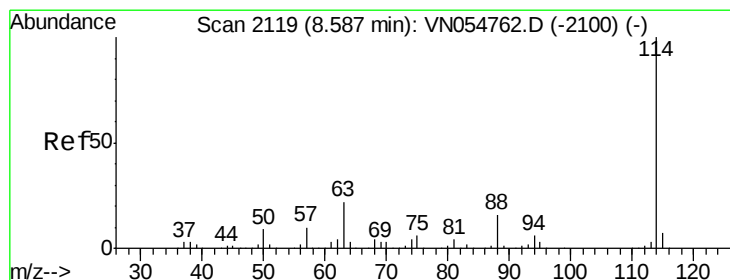
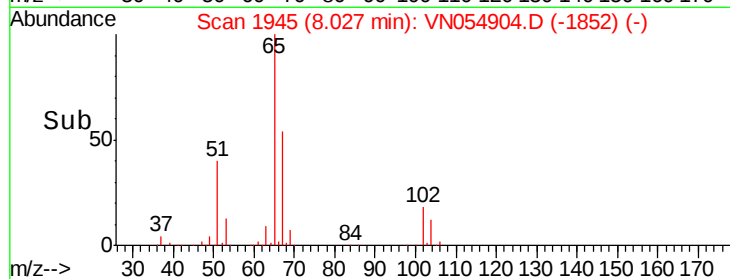
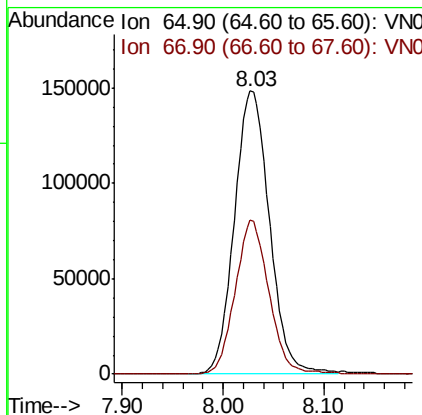
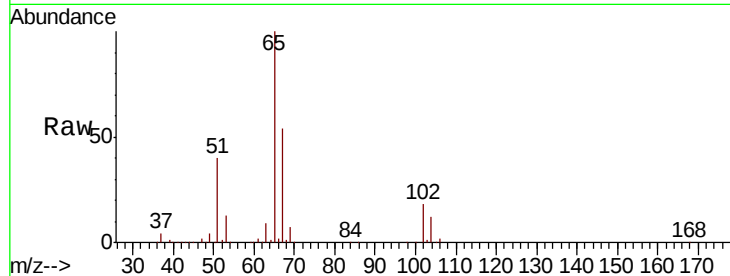




#33
 1,2-Dichloroethane-d4
 Concen: 48.993 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. -0.00 min
 Lab File: VN054904.D
 Acq: 2 Apr 2019 16:17

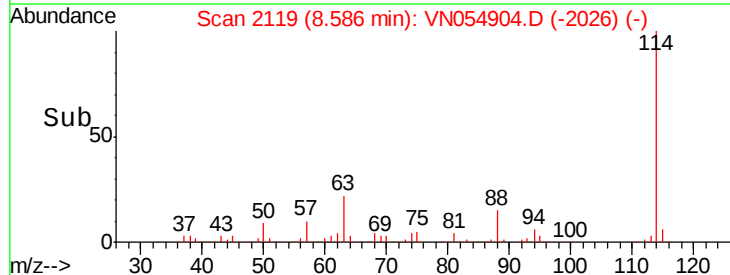
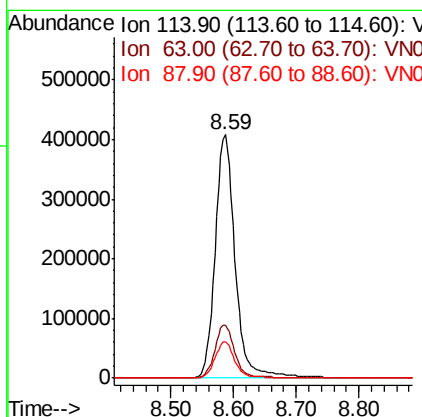
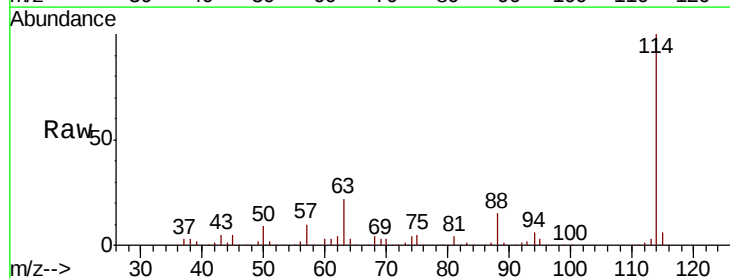
Instrument :
 MSVOA_N
 ClientSampleId :

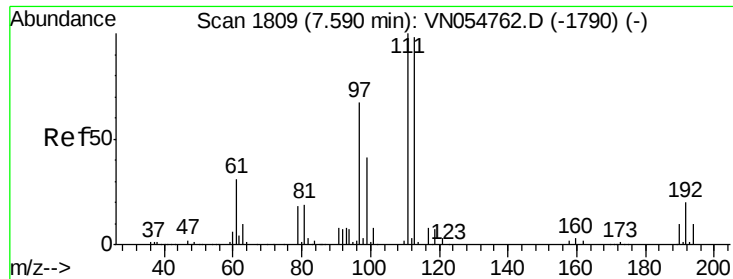
Tot Ion: 65 Resp: 358769
 Ion Ratio Lower Upper
 65 100
 67 52.5 0.0 104.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. -0.00 min
 Lab File: VN054904.D
 Acq: 2 Apr 2019 16:17

Tgt Ion: 114 Resp: 904428
 Ion Ratio Lower Upper
 114 100
 63 21.9 0.0 35.2
 88 15.1 0.0 30.2





#35

Dibromofluoromethane

Concen: 47.198 ug/l

RT: 7.59 min Scan# 1810

Delta R.T. 0.00 min

Lab File: VN054904.D

Acq: 2 Apr 2019 16:17

Instrument :

MSVOA_N

ClientSampleId :

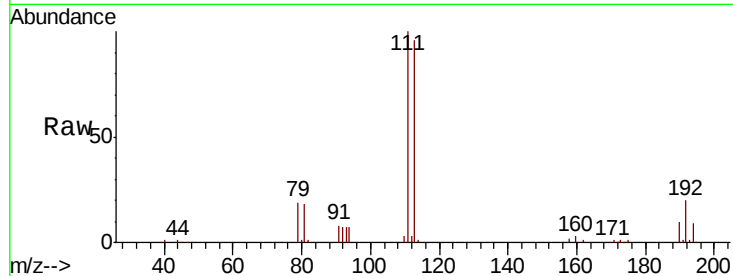
Tot Ion:113 Resp: 284593

Ion Ratio Lower Upper

113 100

111 104.3 82.2 123.4

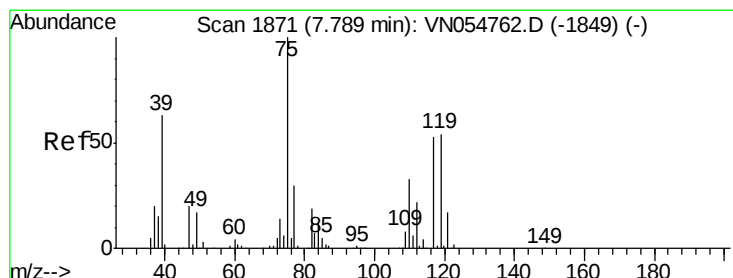
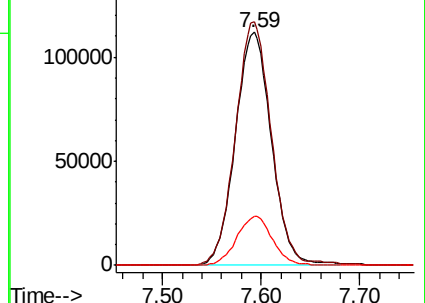
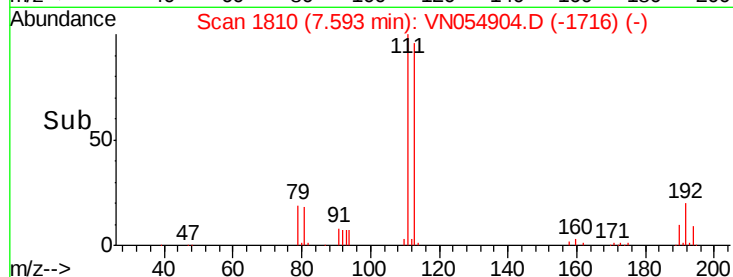
192 20.9 19.2 28.8



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: 4.933 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.12 min

Lab File: VN054904.D

Acq: 2 Apr 2019 16:17

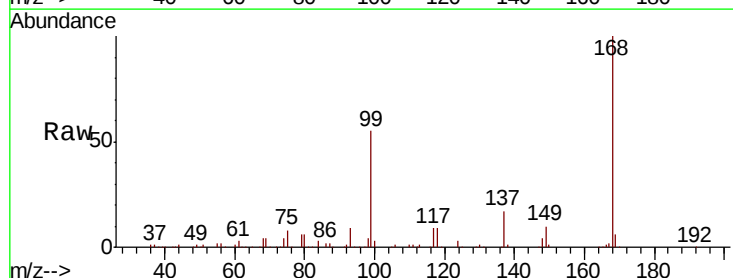
Tgt Ion: 75 Resp: 41571

Ion Ratio Lower Upper

75 100

110 9.2 19.1 57.5#

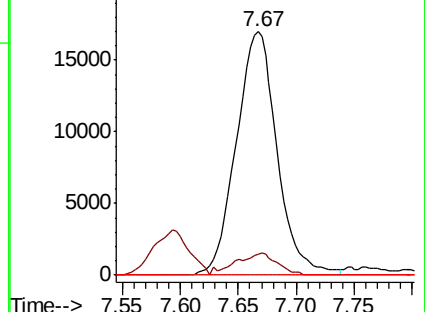
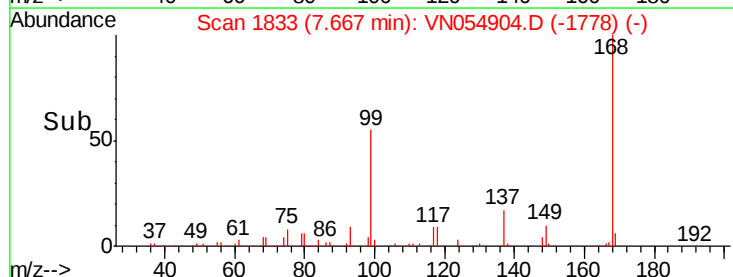
77 0.0 25.0 37.4#

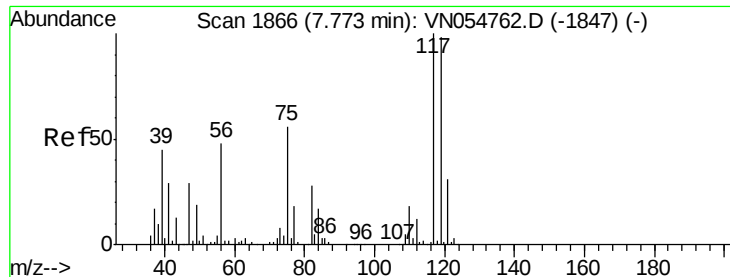


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): V





#38

Carbon Tetrachloride

Concen: 6.053 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.11 min

Lab File: VN054904.D

Acq: 2 Apr 2019 16:17

Instrument :

MSVOA_N

ClientSampleId :

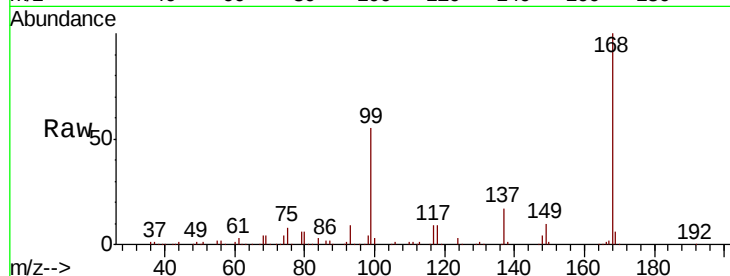
Tot Ion:117 Resp: 49545

Ion Ratio Lower Upper

117 100

119 5.3 76.3 114.5#

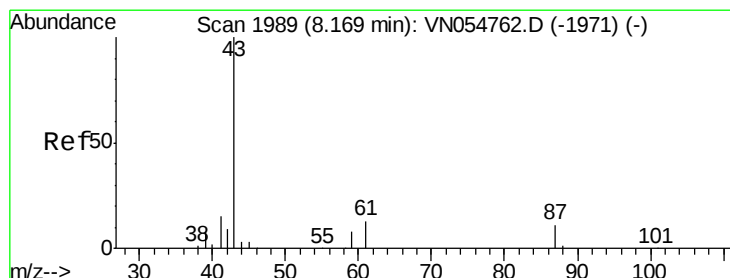
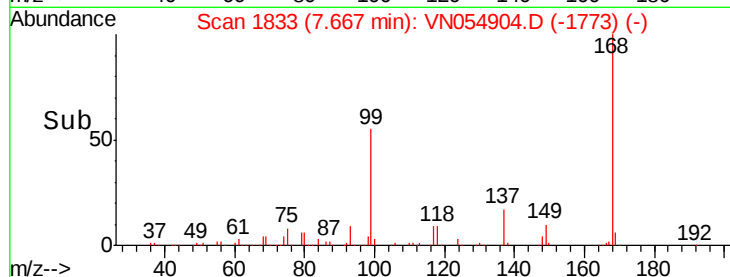
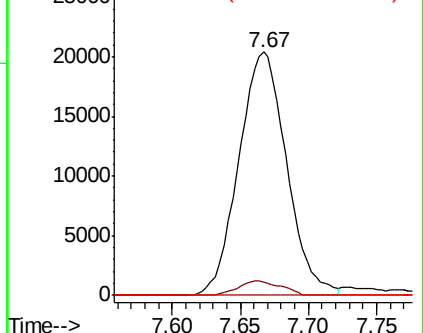
121 0.0 24.6 36.8#



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: 1.462 ug/l

RT: 8.17 min Scan# 1989

Delta R.T. -0.00 min

Lab File: VN054904.D

Acq: 2 Apr 2019 16:17

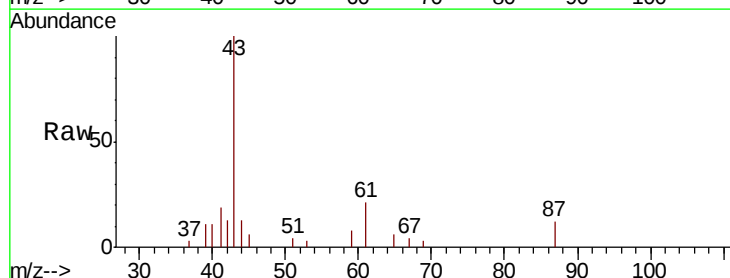
Tgt Ion: 43 Resp: 14684

Ion Ratio Lower Upper

43 100

61 18.2 15.8 23.8

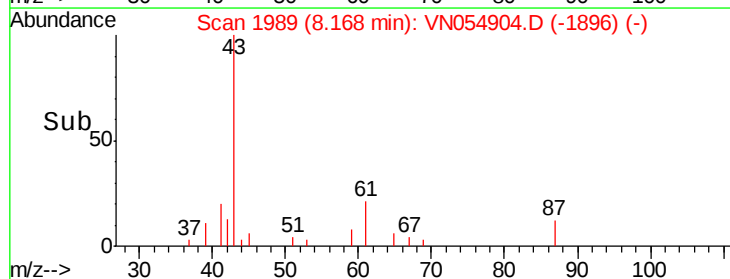
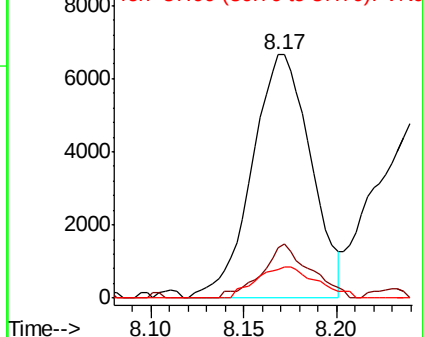
87 13.0 12.0 18.0

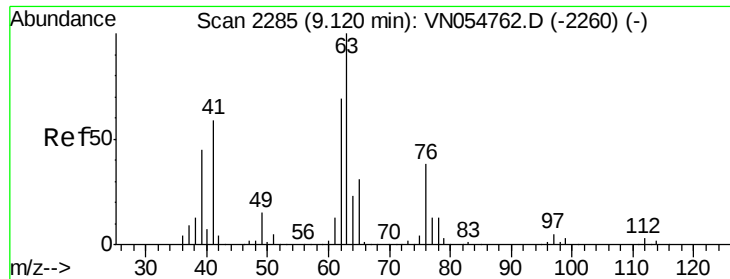


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V

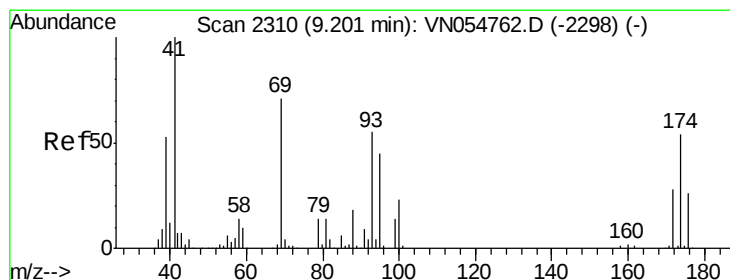
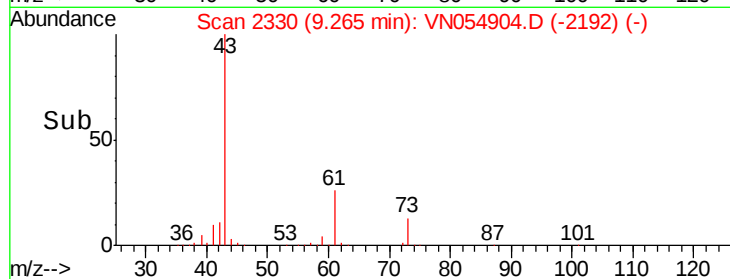
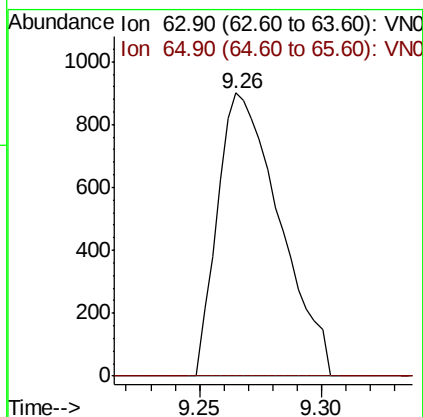
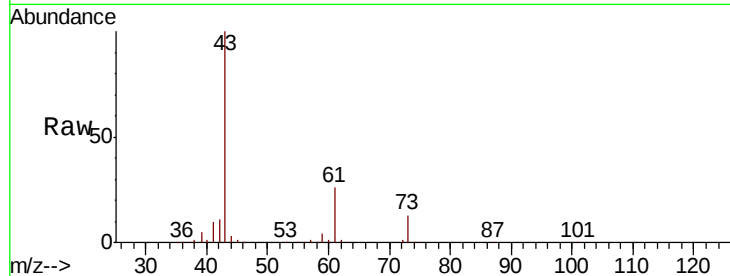




#45
 1,2-Dichloropropane
 Concen: 0.231 ug/l
 RT: 9.26 min Scan# 2330
 Delta R.T. 0.14 min
 Lab File: VN054904.D
 Acq: 2 Apr 2019 16:17

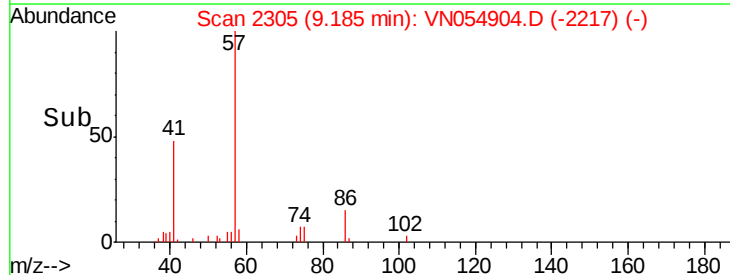
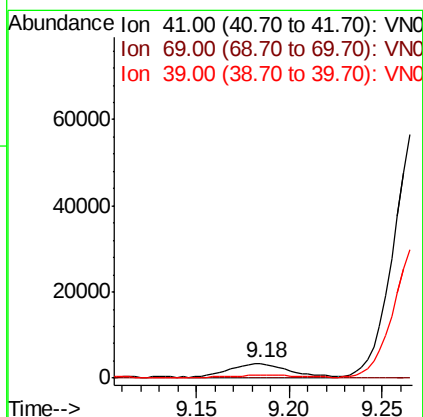
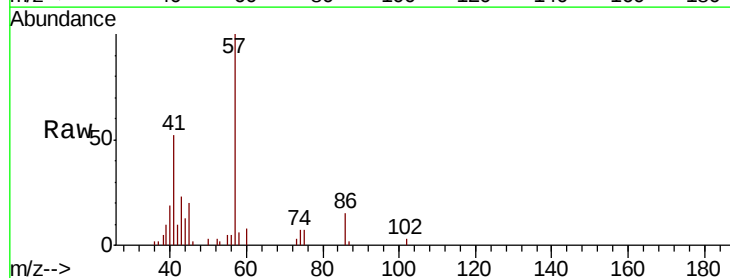
Instrument :
 MSVOA_N
 ClientSampleId :

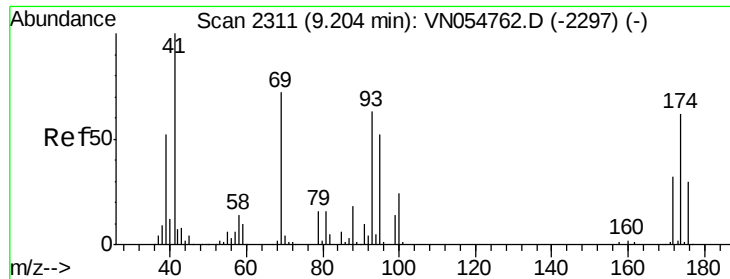
Tot Ion: 63 Resp: 1590
 Ion Ratio Lower Upper
 63 100
 65 0.0 25.0 37.6#



#48
 Methyl methacrylate
 Concen: 1.317 ug/l
 RT: 9.18 min Scan# 2305
 Delta R.T. -0.02 min
 Lab File: VN054904.D
 Acq: 2 Apr 2019 16:17

Tgt Ion: 41 Resp: 7171
 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: 3.166 ug/l

RT: 9.28 min Scan# 2334

Delta R.T. 0.07 min

Lab File: VN054904.D

Acq: 2 Apr 2019 16:17

Instrument :
MSVOA_N
ClientSampleId :

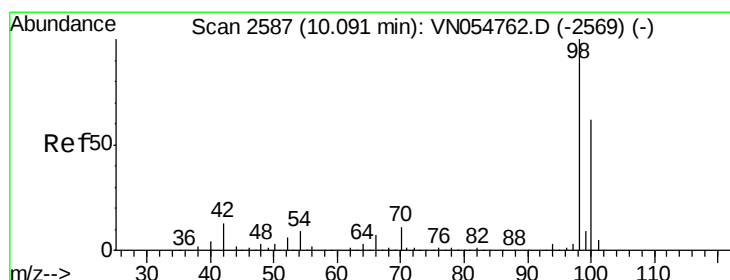
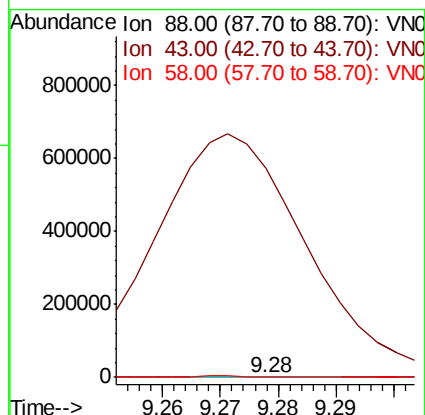
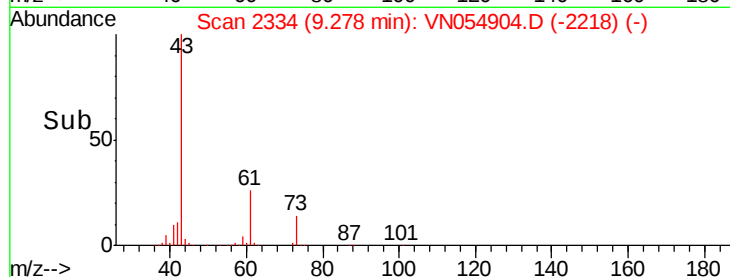
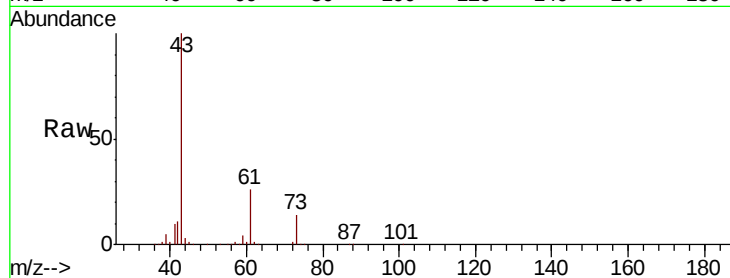
Tot Ion: 88 Resp: 171

Ion Ratio Lower Upper

88 100

43 767298.2 24.1 36.1#

58 3460.2 50.8 76.2#



#50

Toluene-d8

Concen: 48.134 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN054904.D

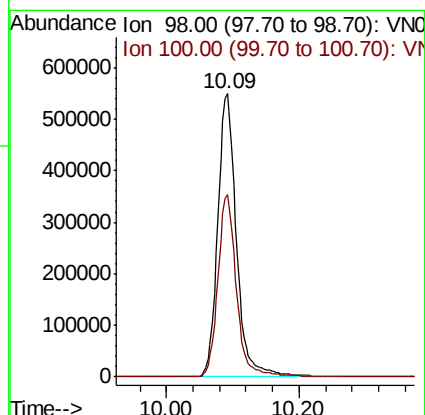
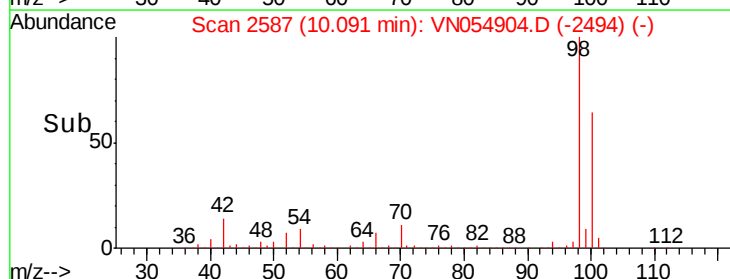
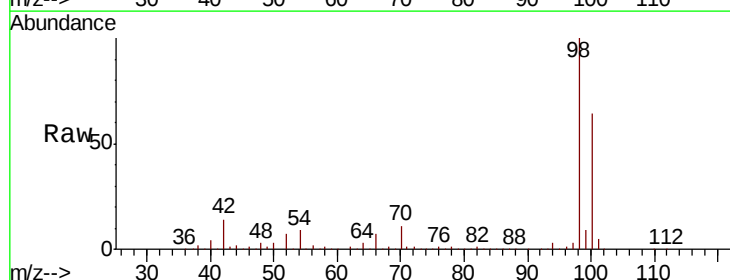
Acq: 2 Apr 2019 16:17

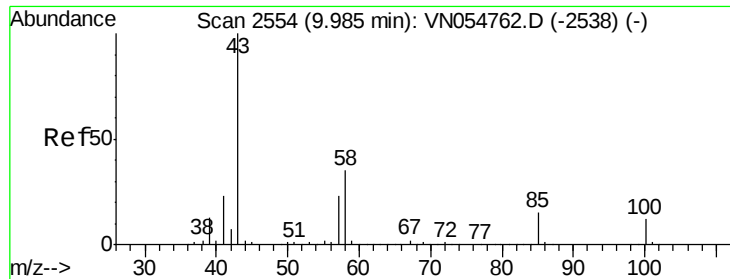
Tgt Ion: 98 Resp: 1079044

Ion Ratio Lower Upper

98 100

100 63.8 51.2 76.8





#51

4-Methyl-2-Pentanone

Concen: 1.484 ug/l

RT: 10.03 min Scan# 2567

Delta R.T. 0.04 min

Lab File: VN054904.D

Acq: 2 Apr 2019 16:17

Instrument :

MSVOA_N

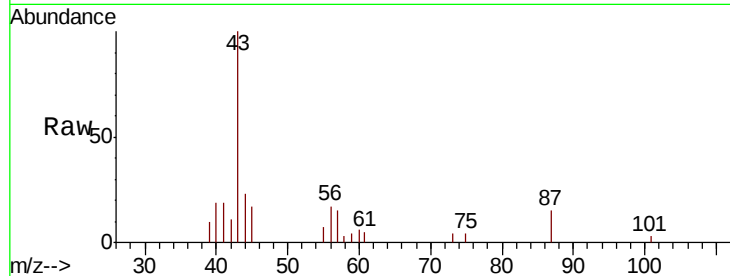
ClientSampled :

Tot Ion: 43 Resp: 8376

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

10.03

5000

4000

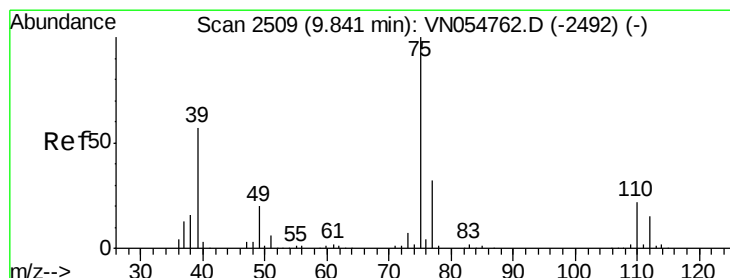
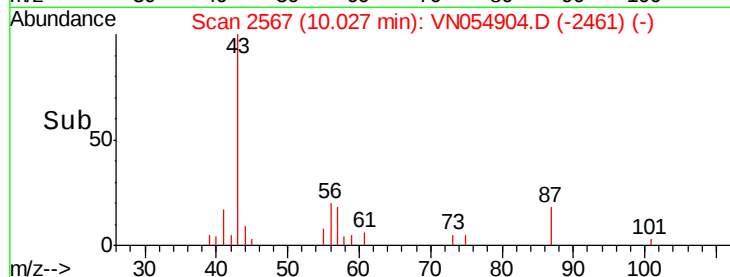
3000

2000

1000

0

Time-->



#54

cis-1,3-Dichloropropene

Concen: 5.624 ug/l

RT: 9.90 min Scan# 2529

Delta R.T. 0.06 min

Lab File: VN054904.D

Acq: 2 Apr 2019 16:17

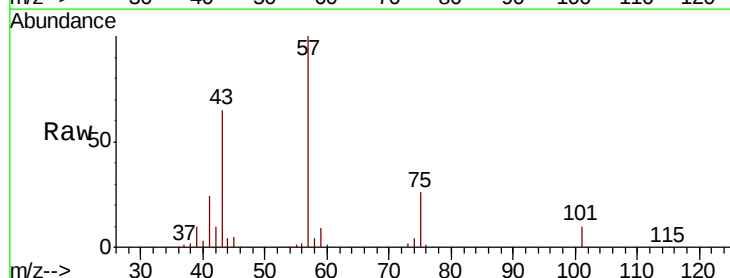
Tgt Ion: 75 Resp: 50804

Ion Ratio Lower Upper

75 100

77 0.6 25.4 38.0#

39 39.7 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

40000

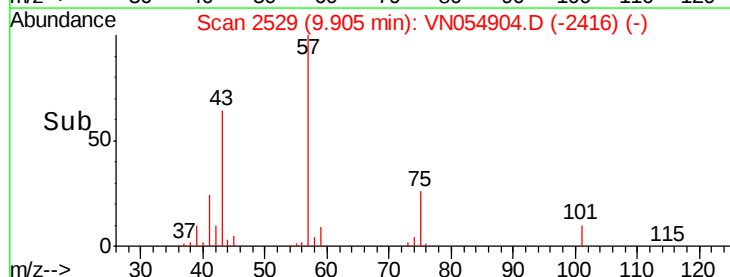
30000

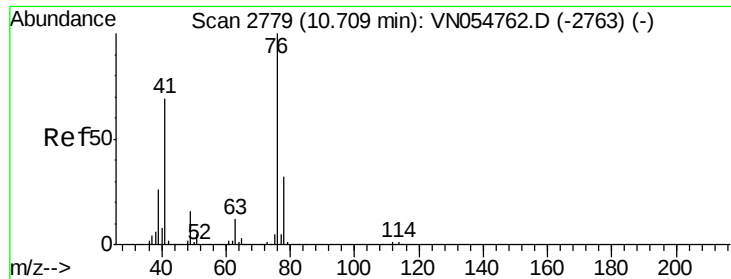
20000

10000

0

Time-->





#57

1,3-Dichloropropane

Concen: 1.062 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.05 min

Lab File: VN054904.D

Acq: 2 Apr 2019 16:17

Instrument :

MSVOA_N

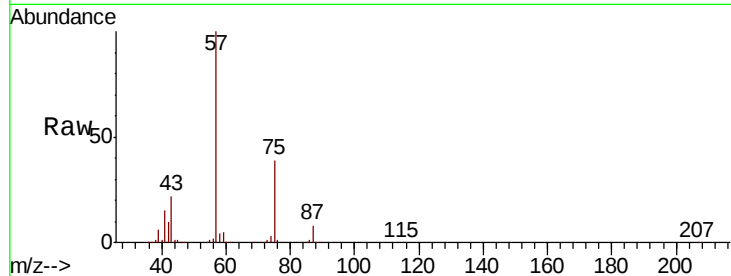
ClientSampleId :

Tot Ion: 76 Resp: 9742

Ion Ratio Lower Upper

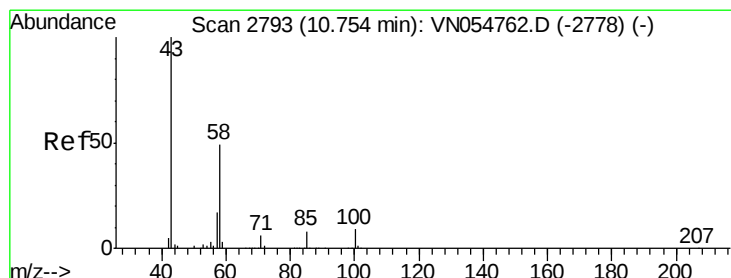
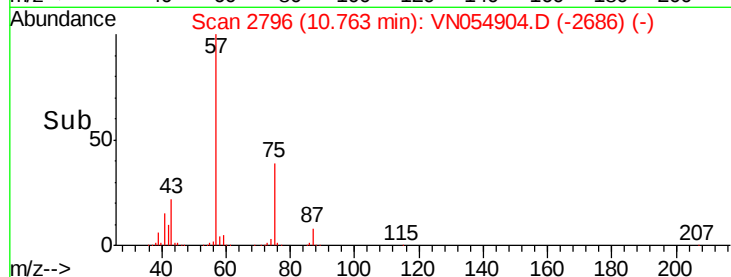
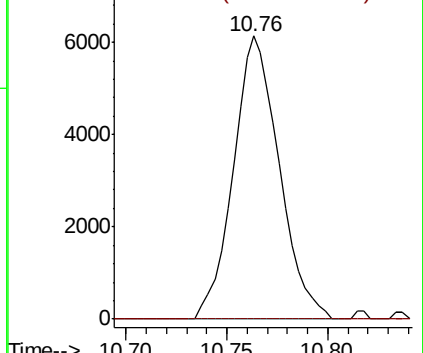
76 100

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: 43.862 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.01 min

Lab File: VN054904.D

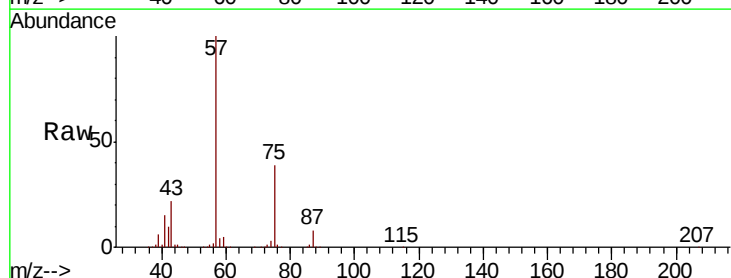
Acq: 2 Apr 2019 16:17

Tgt Ion: 43 Resp: 158527

Ion Ratio Lower Upper

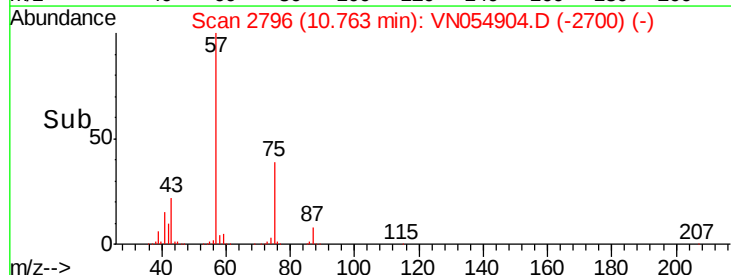
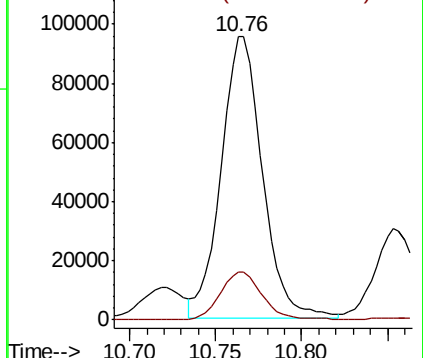
43 100

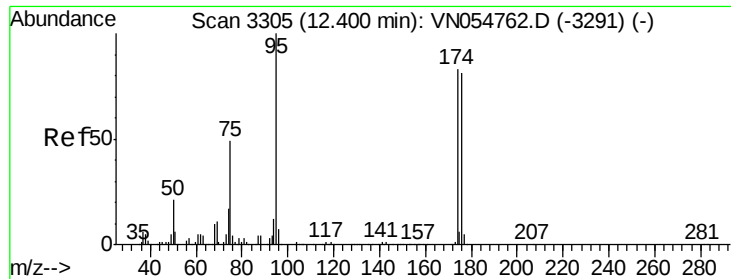
58 17.8 28.0 83.9#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

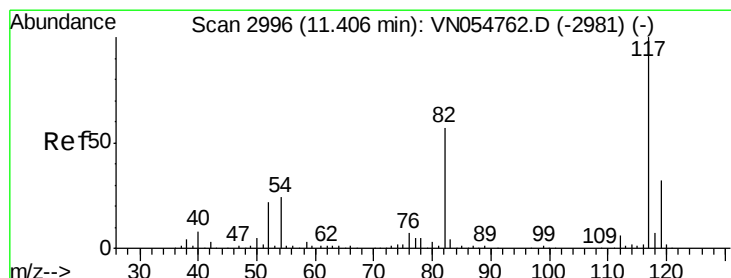
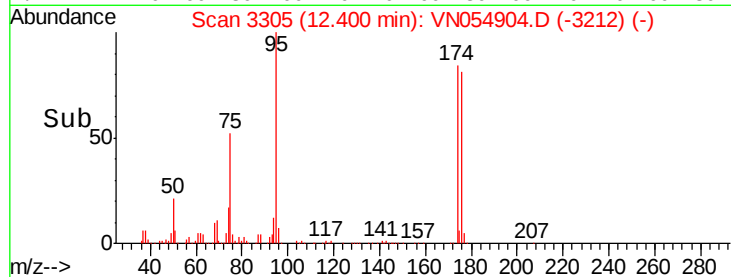
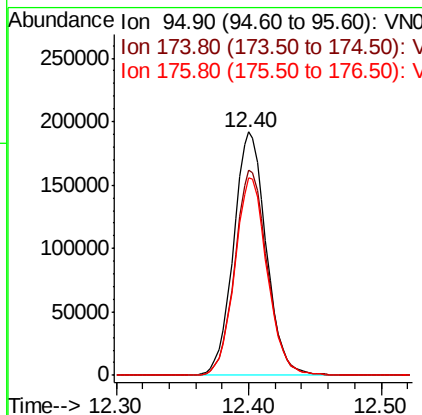
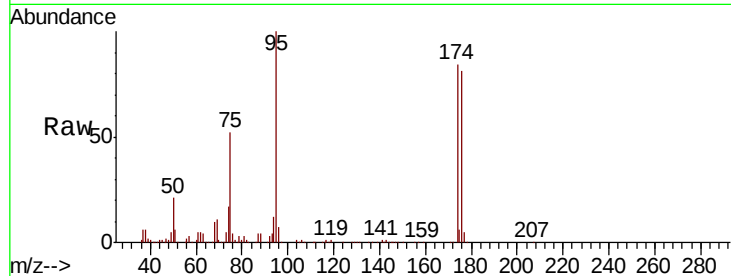




#62
4-Bromofluorobenzene
Concen: 43.883 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. -0.00 min
Lab File: VN054904.D
Acq: 2 Apr 2019 16:17

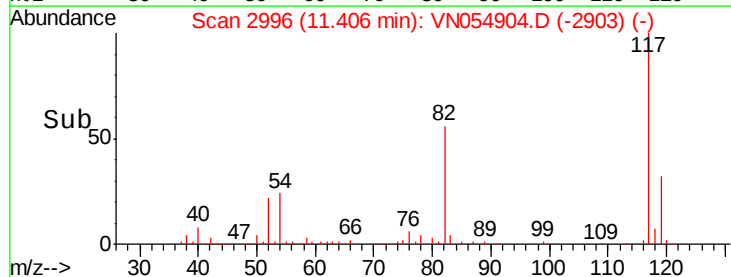
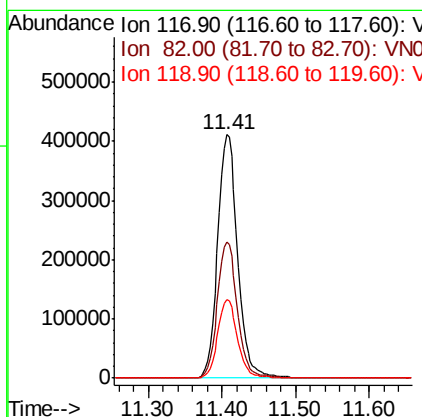
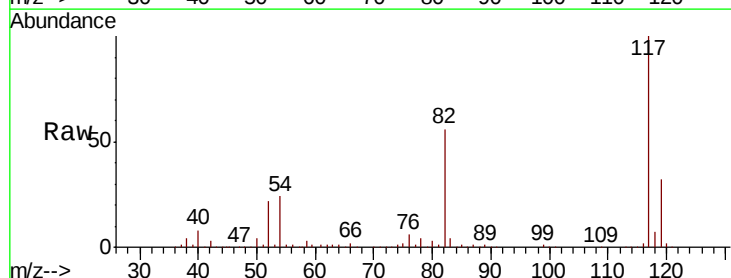
Instrument :
MSVOA_N
ClientSampled :

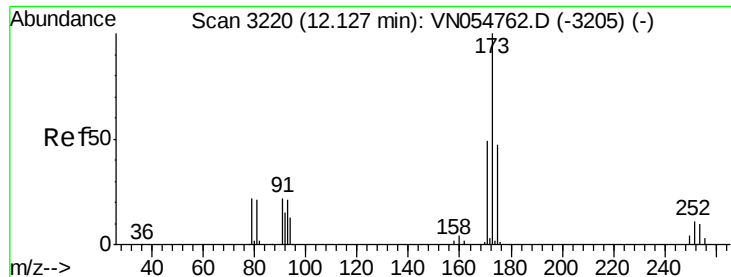
Tot Ion: 95 Resp: 327167
Ion Ratio Lower Upper
95 100
174 84.4 0.0 191.0
176 81.1 0.0 187.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN054904.D
Acq: 2 Apr 2019 16:17

Tgt Ion: 117 Resp: 774031
Ion Ratio Lower Upper
117 100
82 56.0 40.0 60.0
119 32.4 25.8 38.6

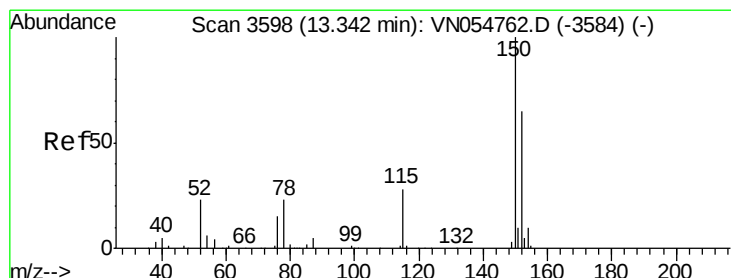
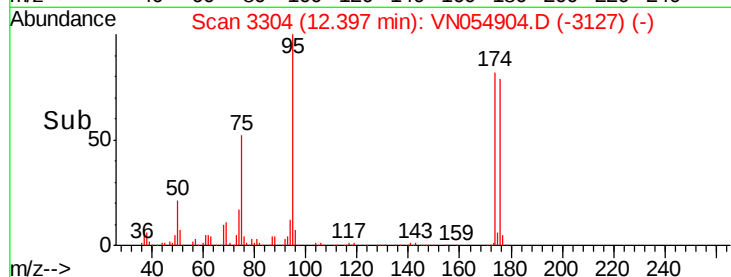
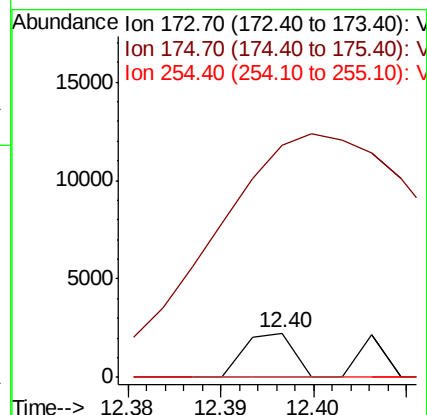
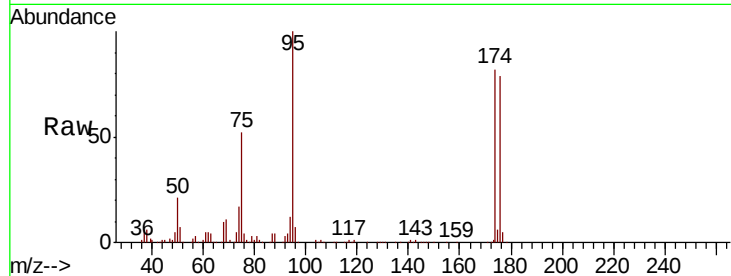




#71
Bromoform
Concen: 0.248 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. 0.27 min
Lab File: VN054904.D
Acq: 2 Apr 2019 16:17

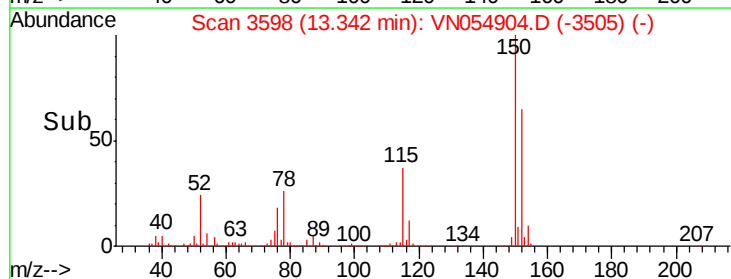
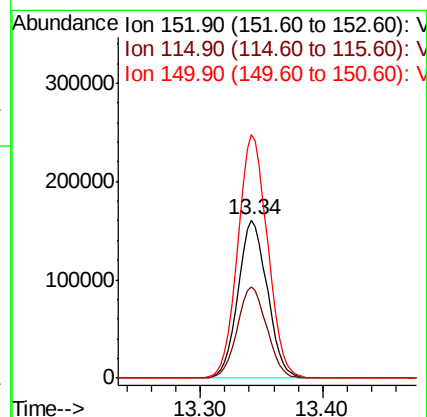
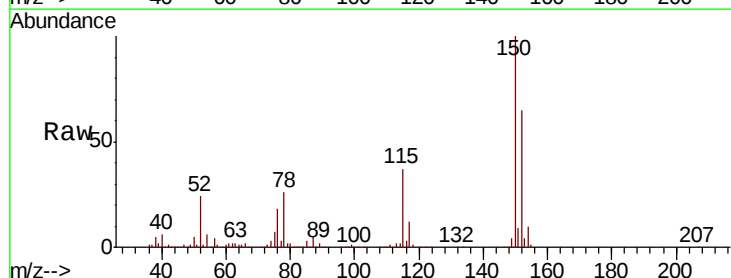
Instrument :
MSVOA_N
ClientSampled :

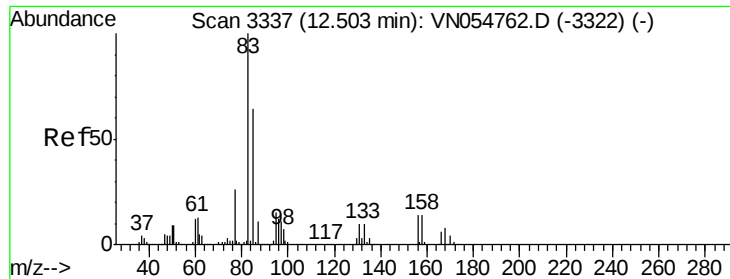
Tot Ion:173 Resp: 824
Ion Ratio Lower Upper
173 100
175 2278.8 24.4 73.2#
254 0.0 0.1 0.1#



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3598
Delta R.T. -0.00 min
Lab File: VN054904.D
Acq: 2 Apr 2019 16:17

Tgt Ion:152 Resp: 266414
Ion Ratio Lower Upper
152 100
115 58.6 27.2 81.6
150 156.6 0.0 349.2





#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.39 min Scan# 3302

Delta R.T. -0.11 min

Lab File: VN054904.D

Acq: 2 Apr 2019 16:17

Instrument :

MSVOA_N

ClientSampleId :

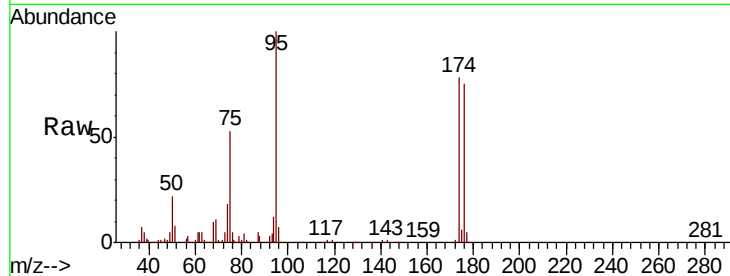
Tot Ion: 83 Resp: 138

Ion Ratio Lower Upper

83 100

131 97.1 5.8 17.4#

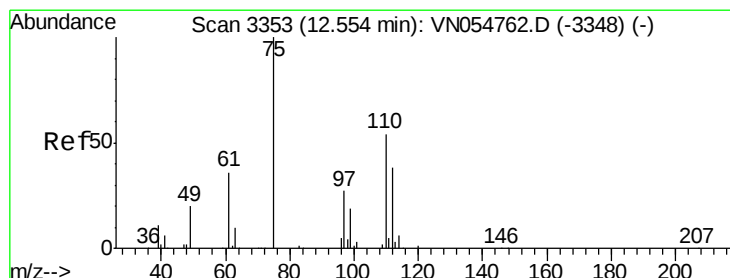
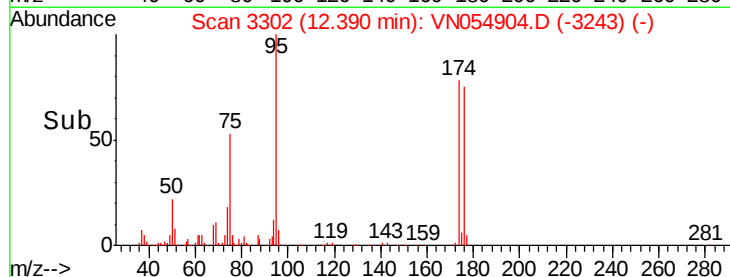
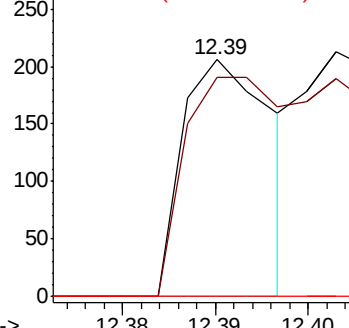
85 0.0 32.2 96.6#



Abundance Ion 82.90 (82.60 to 83.60): VNO

Ion 130.80 (130.50 to 131.50): VNO

Ion 84.90 (84.60 to 85.60): VNO



#76

1,2,3-Trichloropropane

Concen: 36.651 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN054904.D

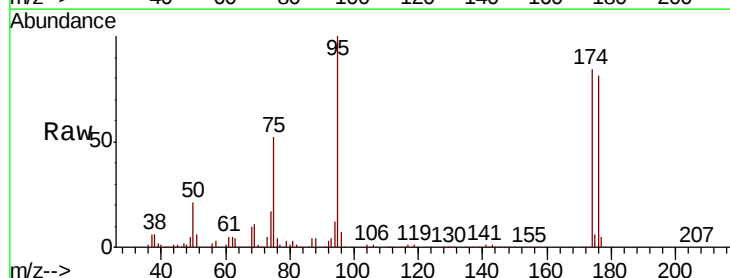
Acq: 2 Apr 2019 16:17

Tgt Ion: 75 Resp: 169627

Ion Ratio Lower Upper

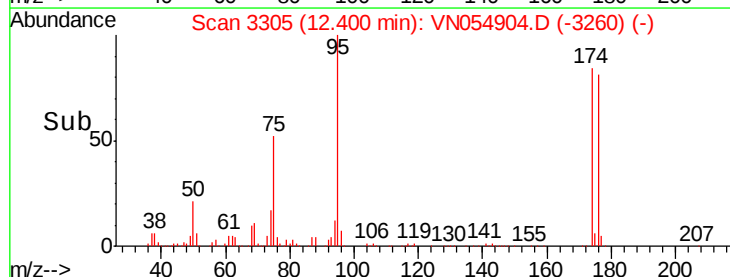
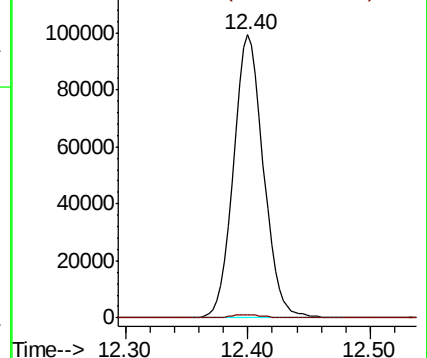
75 100

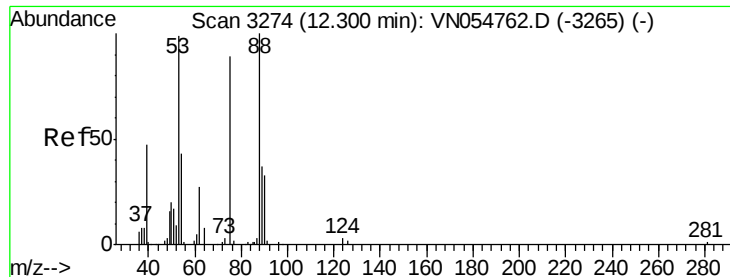
77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 77.00 (76.70 to 77.70): VNO

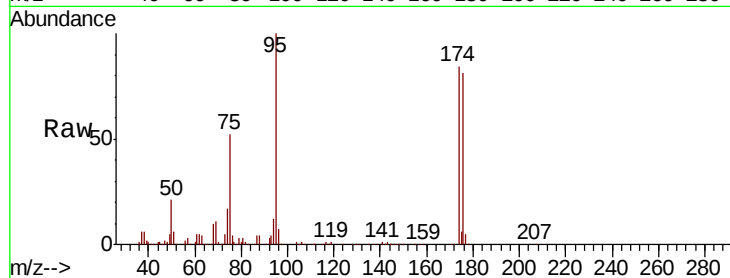




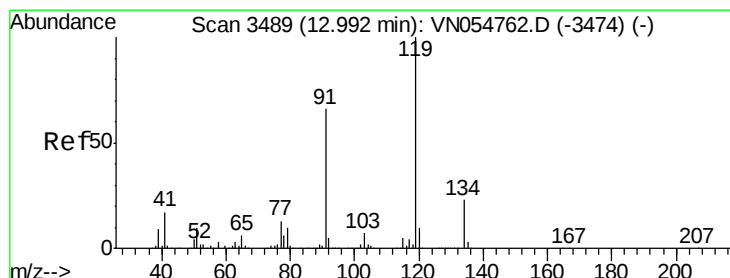
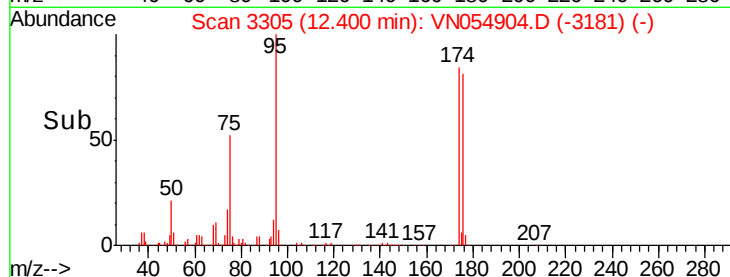
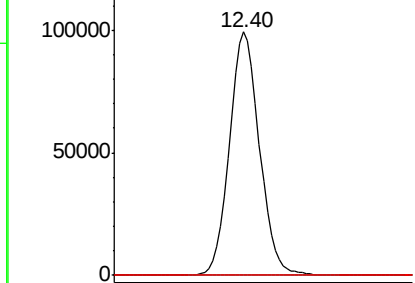
#81
 trans-1,4-Dichloro-2-butene
 Concen: 142.561 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. 0.10 min
 Lab File: VN054904.D
 Acq: 2 Apr 2019 16:17

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion: 75 Resp: 169627
 Ion Ratio Lower Upper
 75 100
 53 0.0 76.2 114.2#
 89 0.0 39.2 58.8#

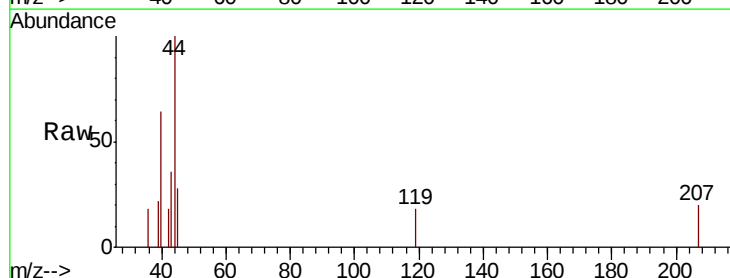


Abundance Ion 74.90 (74.60 to 75.60): VN0
 Ion 53.00 (52.70 to 53.70): VN0
 Ion 88.90 (88.60 to 89.60): VN0



#83
 tert-Butylbenzene
 Concen: Below Cal
 RT: 12.99 min Scan# 3489
 Delta R.T. 0.00 min
 Lab File: VN054904.D
 Acq: 2 Apr 2019 16:17

Tgt Ion: 119 Resp: 63
 Ion Ratio Lower Upper
 119 100
 91 0.0 30.9 92.8#
 134 0.0 13.2 39.6#



Abundance Ion 119.00 (118.70 to 119.70): V
 Ion 91.00 (90.70 to 91.70): VN0
 Ion 134.00 (133.70 to 134.70): V

