

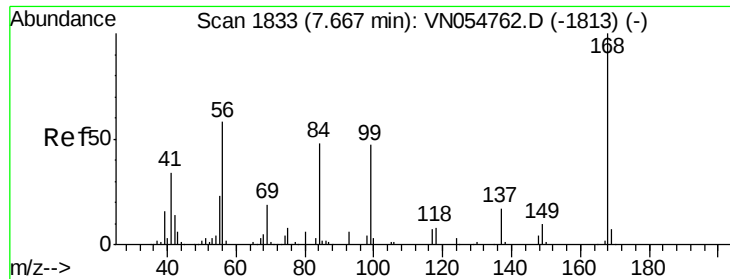
Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN040219\
 Data File : VN054902.D
 Acq On : 2 Apr 2019 15:24
 Operator : JC/SP
 Sample : K2213-14
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Apr 03 05:06:42 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	522178	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	872144	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	756425	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	265259	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.03	65	344240	48.90	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.80%	
35) Dibromofluoromethane	7.59	113	277953	47.80	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.60%	
50) Toluene-d8	10.09	98	1050762	48.61	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.22%	
62) 4-Bromofluorobenzene	12.40	95	322915	44.92	ug/l	0.00
Spiked Amount	50.000		Recovery	=	89.84%	
Target Compounds						
					Qvalue	
5) Bromomethane	2.58	94	170	Below Cal		88
13) Acrolein	3.61	56	141	0.430 ug/l #		40
16) Acetone	3.83	43	10324	6.150 ug/l #		72
18) Methyl Acetate	4.34	43	1050	Below Cal #		81
20) Methylene Chloride	4.55	84	12598	2.128 ug/l #		88
25) 2-Butanone	6.86	43	1667	0.672 ug/l #		46
29) Tetrahydrofuran	7.21	42	766	0.444 ug/l #		53
31) Cyclohexane	7.66	56	11504	Below Cal #		18
36) 1,1-Dichloropropene	7.67	75	38634	4.754 ug/l #		48
38) Carbon Tetrachloride	7.66	117	49374	6.255 ug/l #		17
43) Isopropyl Acetate	8.17	43	15010	1.550 ug/l #		94
48) Methyl methacrylate	9.18	41	8088	1.541 ug/l #		11
49) 1,4-Dioxane	9.27	88	234	4.493 ug/l #		1
51) 4-Methyl-2-Pentanone	10.03	43	8147	1.496 ug/l #		36
54) cis-1,3-Dichloropropene	9.90	75	50706	5.821 ug/l #		76
57) 1,3-Dichloropropane	10.77	76	9626	1.088 ug/l #		43
58) 2-Chloroethyl Vinyl ether	9.44	63	73	10.379 ug/l #		44
59) 2-Hexanone	10.77	43	158953	45.608 ug/l #		47
74) N-amyl acetate	11.88	43	14783	2.189 ug/l #		50
75) 1,1,2,2-Tetrachloroethane	12.40	83	98	Below Cal #		1
76) 1,2,3-Trichloropropane	12.40	75	167322	36.310 ug/l #		100
81) trans-1,4-Dichloro-2-buten	12.40	75	167322	141.236 ug/l #		11
83) tert-Butylbenzene	12.73	119	161	Below Cal #		45

(#) = 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: VN054902.D

Acq: 2 Apr 2019 15:24

Instrument :

MSVOA_N

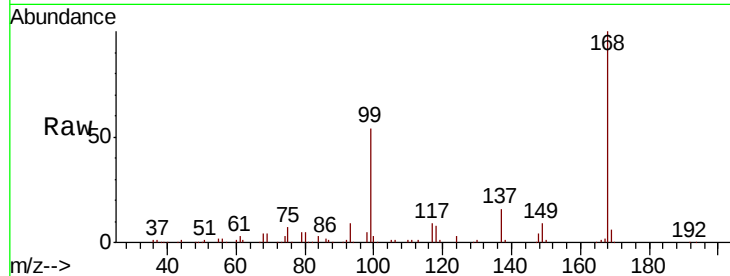
ClientSampleId :

Tot Ion:168 Resp: 522178

Ion Ratio Lower Upper

168 100

99 54.1 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

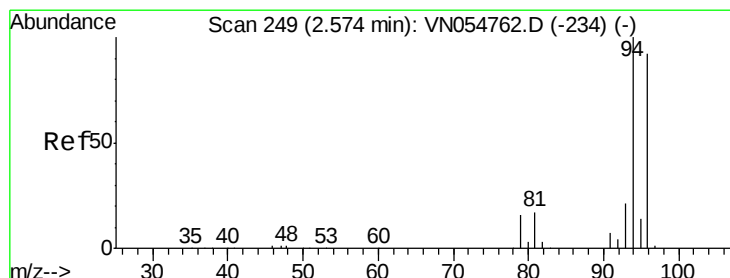
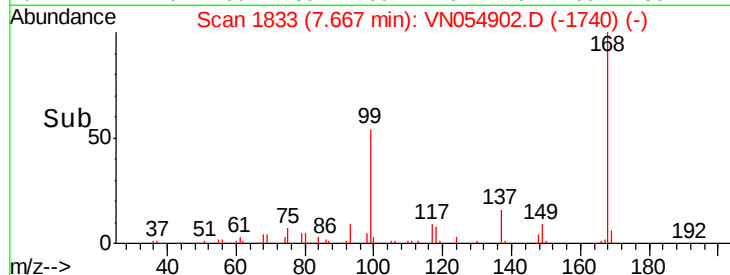
150000

100000

50000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 2.58 min Scan# 251

Delta R.T. 0.01 min

Lab File: VN054902.D

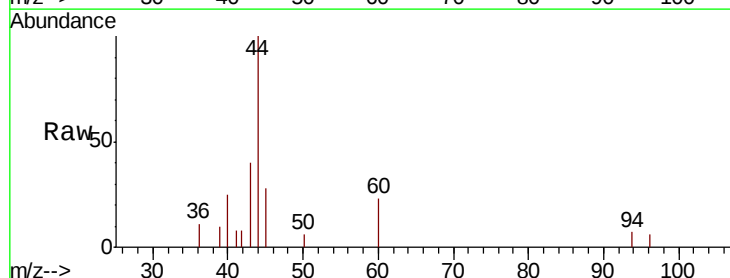
Acq: 2 Apr 2019 15:24

Tgt Ion: 94 Resp: 170

Ion Ratio Lower Upper

94 100

96 84.8 77.0 115.4



Abundance Ion 93.90 (93.60 to 94.60): VNO

Ion 95.90 (95.60 to 96.60): VNO

2.58

200

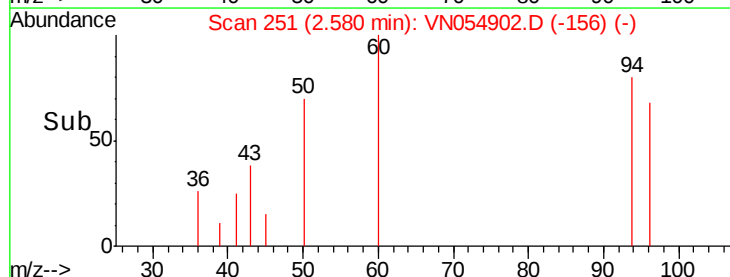
150

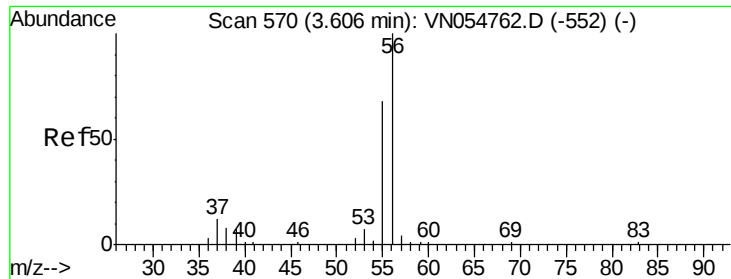
100

50

0

Time-->





#13

Acrolein

Concen: 0.430 ug/l

RT: 3.61 min Scan# 571

Delta R.T. 0.00 min

Lab File: VN054902.D

Acq: 2 Apr 2019 15:24

Instrument :

MSVOA_N

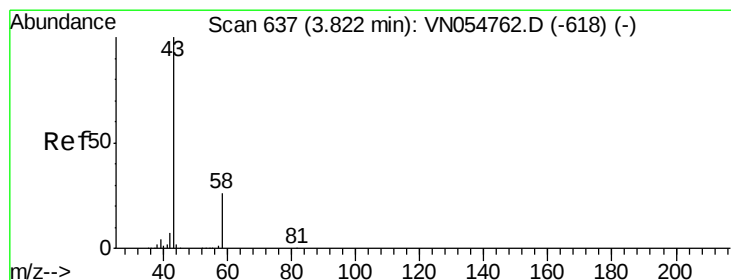
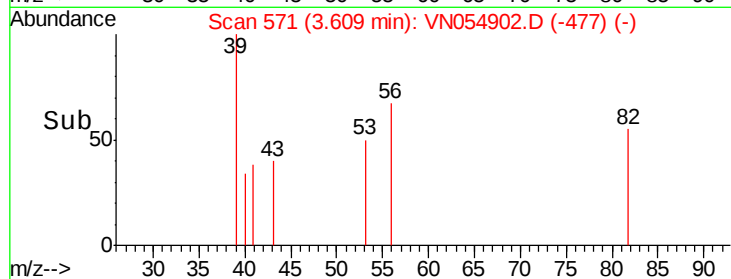
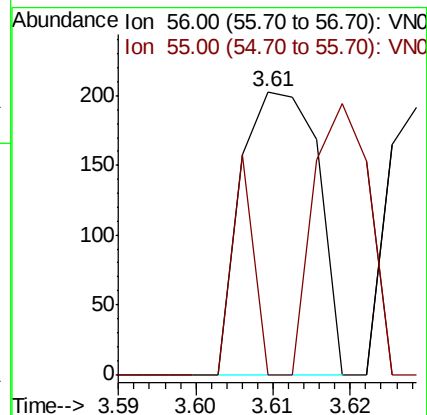
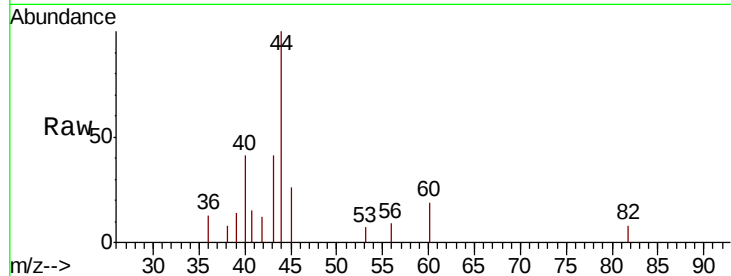
ClientSampled :

Tot Ion: 56 Resp: 141

Ion Ratio Lower Upper

56 100

55 21.3 56.7 85.1#



#16

Acetone

Concen: 6.150 ug/l

RT: 3.83 min Scan# 639

Delta R.T. 0.01 min

Lab File: VN054902.D

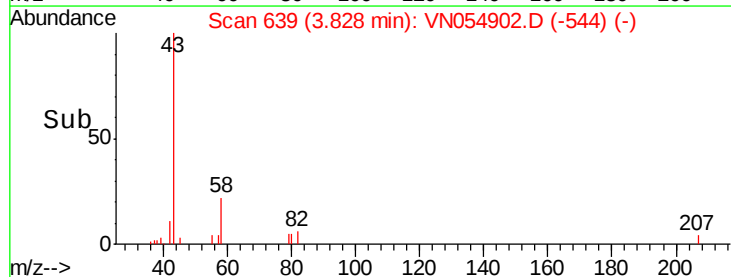
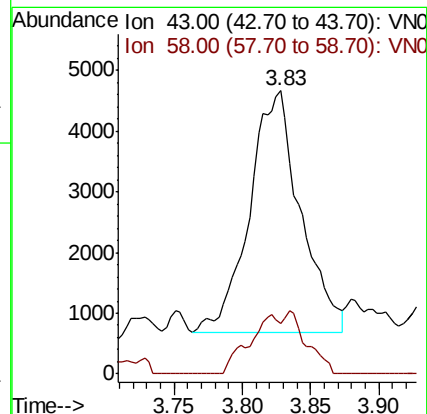
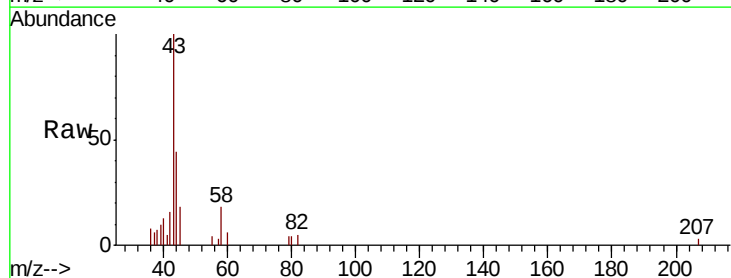
Acq: 2 Apr 2019 15:24

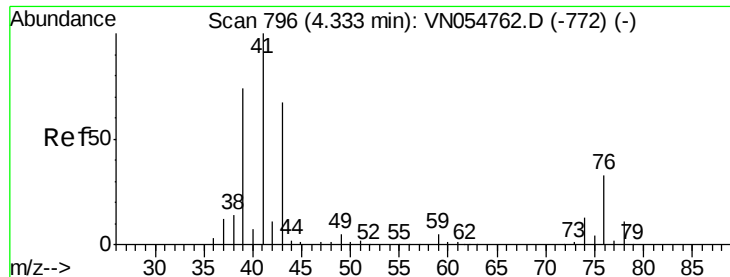
Tgt Ion: 43 Resp: 10324

Ion Ratio Lower Upper

43 100

58 20.8 29.9 44.9#

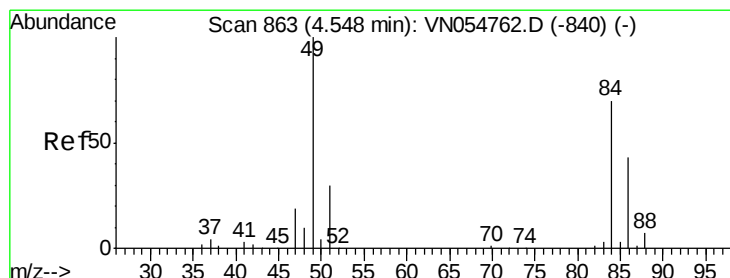
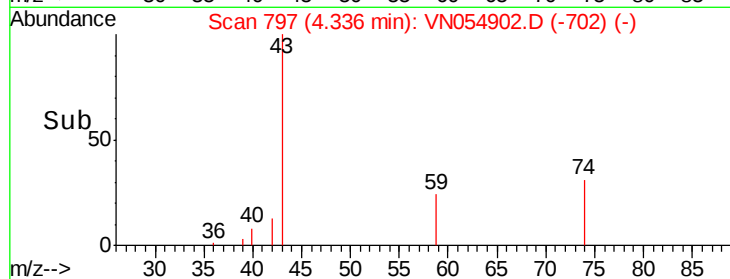
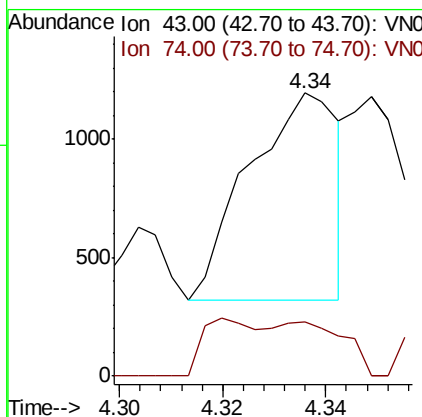
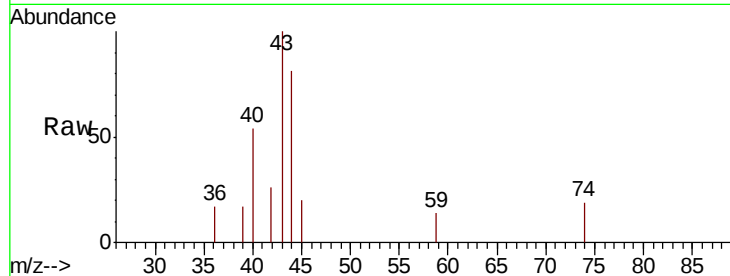




#18
Methyl Acetate
Concen: Below Cal
RT: 4.34 min Scan# 797
Delta R.T. 0.00 min
Lab File: VN054902.D
Acq: 2 Apr 2019 15:24

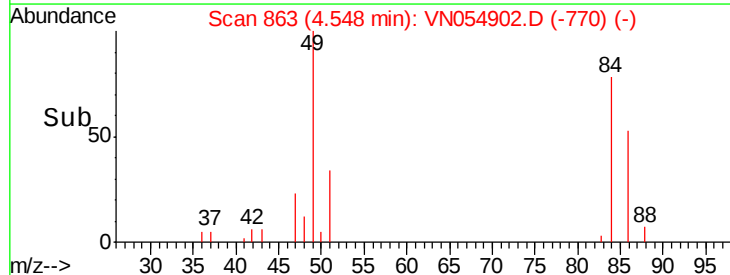
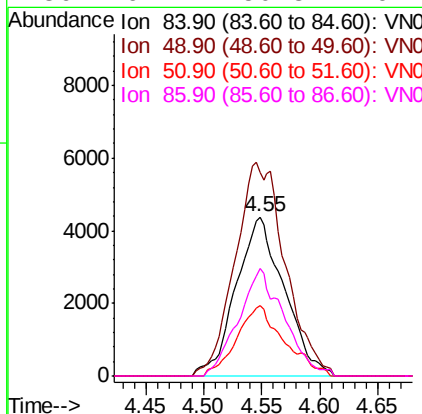
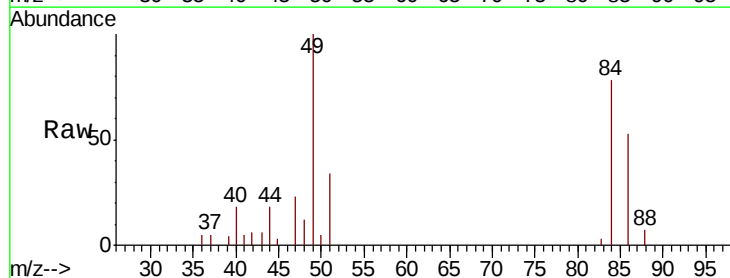
Instrument :
MSVOA_N
ClientSampled :

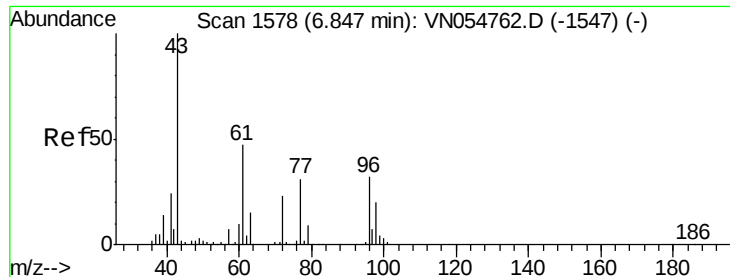
Tot Ion: 43 Resp: 1050
Ion Ratio Lower Upper
43 100
74 16.2 20.8 31.2#



#20
Methylene Chloride
Concen: 2.128 ug/l
RT: 4.55 min Scan# 863
Delta R.T. -0.00 min
Lab File: VN054902.D
Acq: 2 Apr 2019 15:24

Tgt Ion: 84 Resp: 12598
Ion Ratio Lower Upper
84 100
49 128.1 89.7 134.5
51 44.1 28.2 42.4#
86 67.4 50.8 76.2





#25

2-Butanone

Concen: 0.672 ug/l

RT: 6.86 min Scan# 1583

Delta R.T. 0.02 min

Lab File: VN054902.D

Acq: 2 Apr 2019 15:24

Instrument :

MSVOA_N

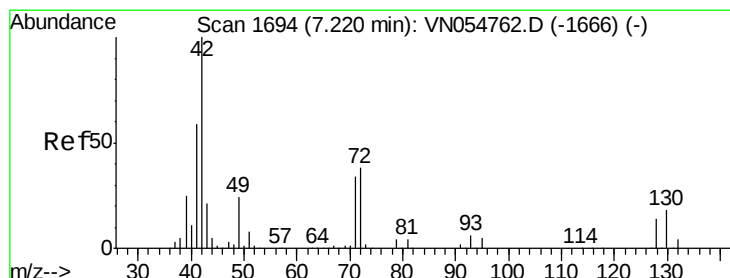
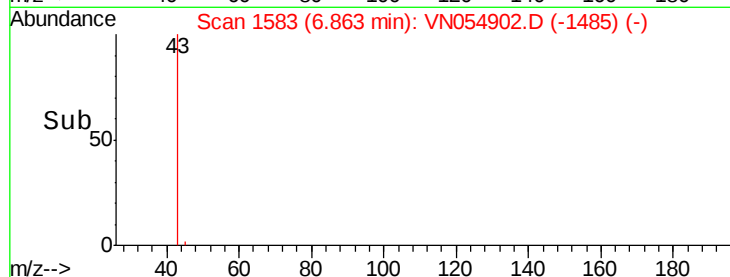
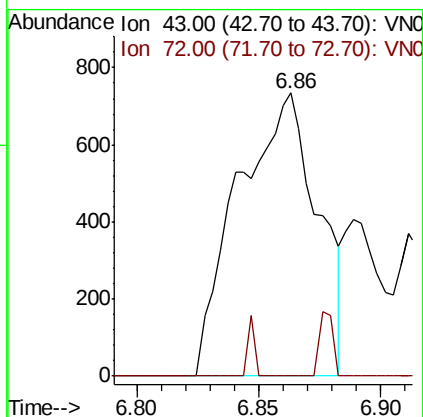
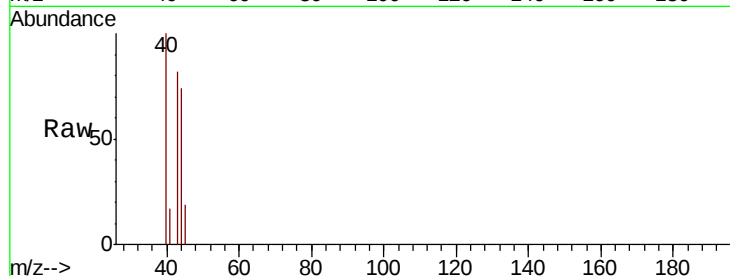
ClientSampleId :

Tot Ion: 43 Resp: 1667

Ion Ratio Lower Upper

43 100

72 0.0 23.0 34.6#



#29

Tetrahydrofuran

Concen: 0.444 ug/l

RT: 7.21 min Scan# 1692

Delta R.T. -0.01 min

Lab File: VN054902.D

Acq: 2 Apr 2019 15:24

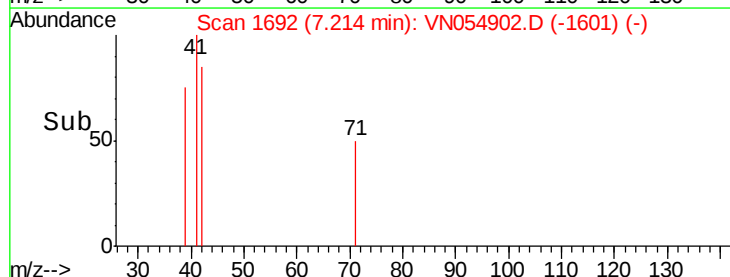
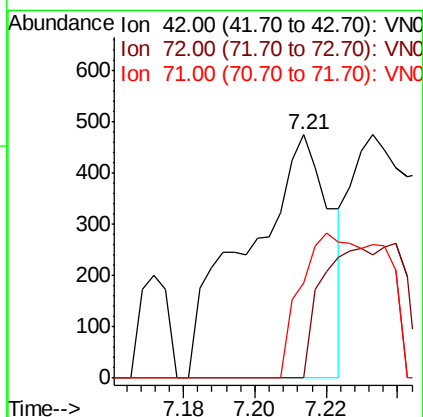
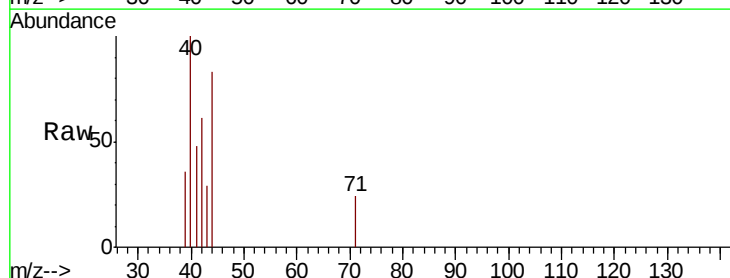
Tgt Ion: 42 Resp: 766

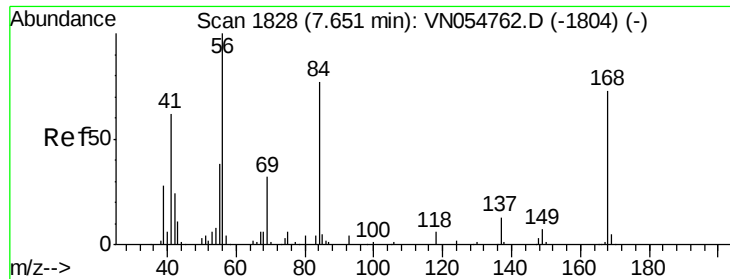
Ion Ratio Lower Upper

42 100

72 0.0 37.8 56.6#

71 60.2 36.2 54.2#

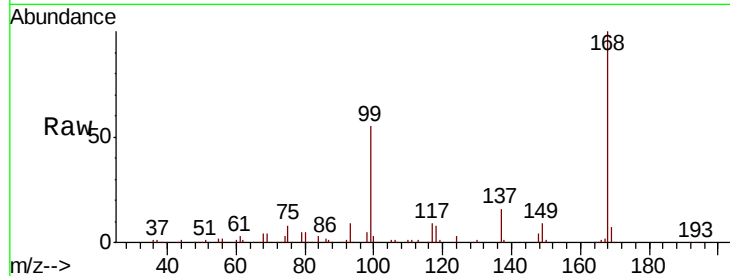




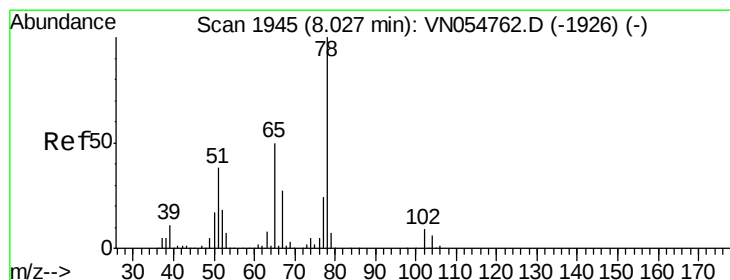
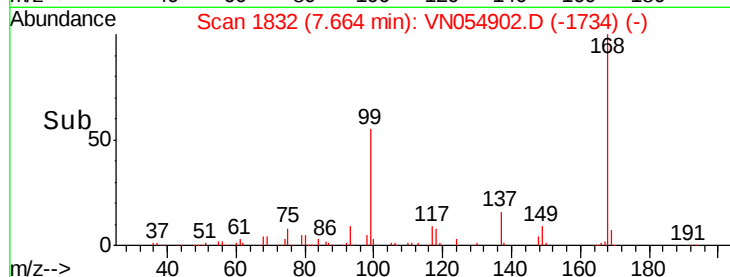
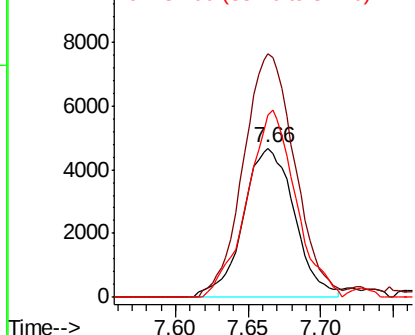
#31
Cyclohexane
Concen: Below Cal
RT: 7.66 min Scan# 1832
Delta R.T. 0.01 min
Lab File: VN054902.D
Acq: 2 Apr 2019 15:24

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 56 Resp: 11504
Ion Ratio Lower Upper
56 100
69 162.8 27.8 41.6#
84 121.9 74.6 111.8#

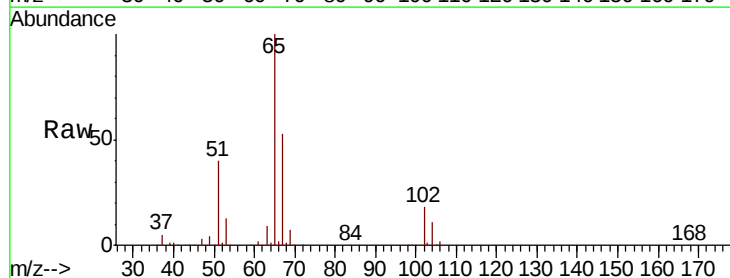


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

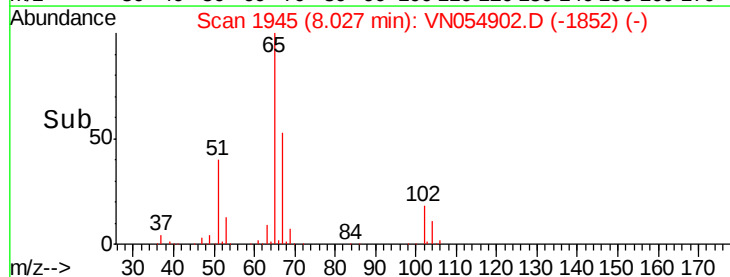
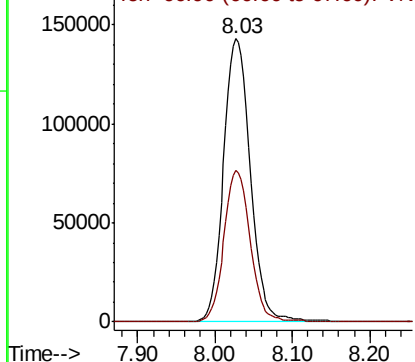


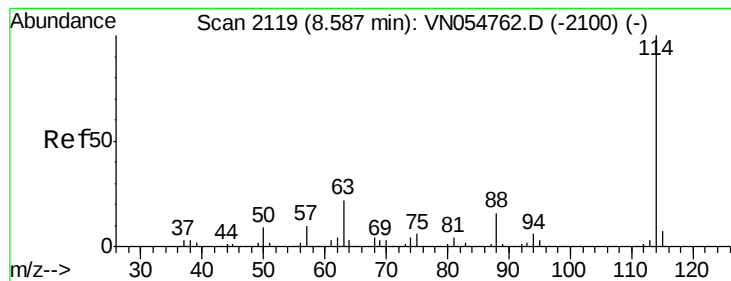
#33
1,2-Dichloroethane-d4
Concen: 48.904 ug/l
RT: 8.03 min Scan# 1945
Delta R.T. -0.00 min
Lab File: VN054902.D
Acq: 2 Apr 2019 15:24

Tgt Ion: 65 Resp: 344240
Ion Ratio Lower Upper
65 100
67 52.4 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: VN054902.D

Acq: 2 Apr 2019 15:24

Instrument :

MSVOA_N

ClientSampleId :

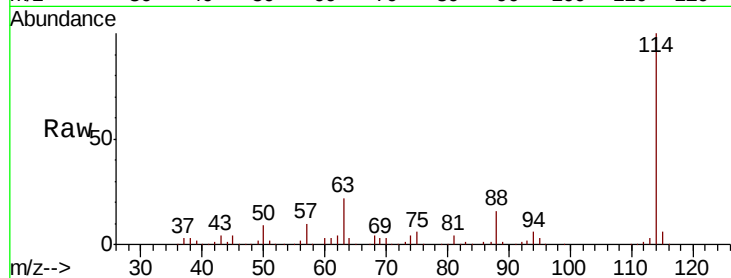
Tot Ion:114 Resp: 872144

Ion Ratio Lower Upper

114 100

63 22.0 0.0 35.2

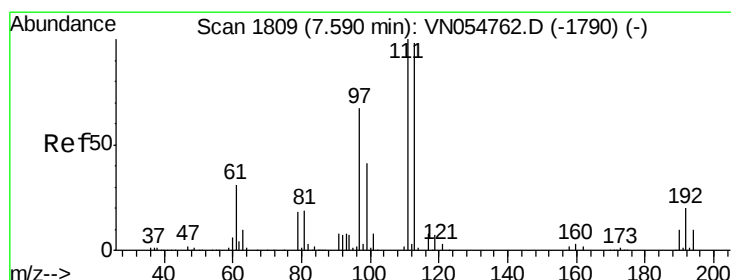
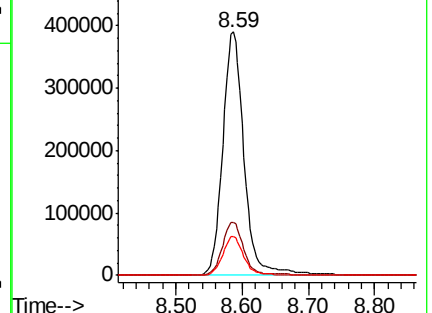
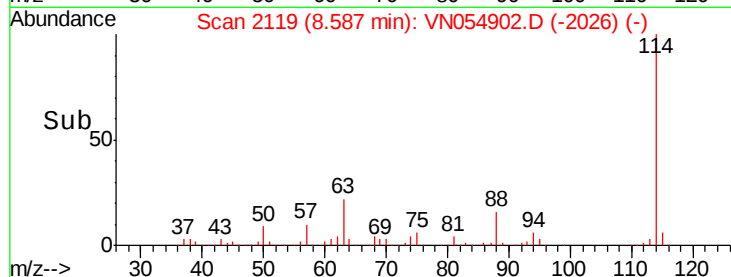
88 15.9 0.0 30.2



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: 47.803 ug/l

RT: 7.59 min Scan# 1809

Delta R.T. -0.00 min

Lab File: VN054902.D

Acq: 2 Apr 2019 15:24

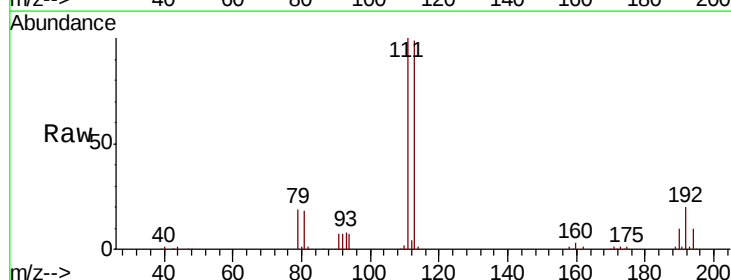
Tgt Ion:113 Resp: 277953

Ion Ratio Lower Upper

113 100

111 101.2 82.2 123.4

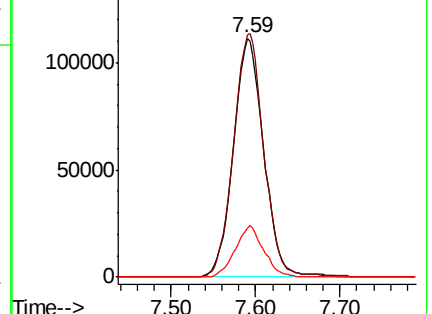
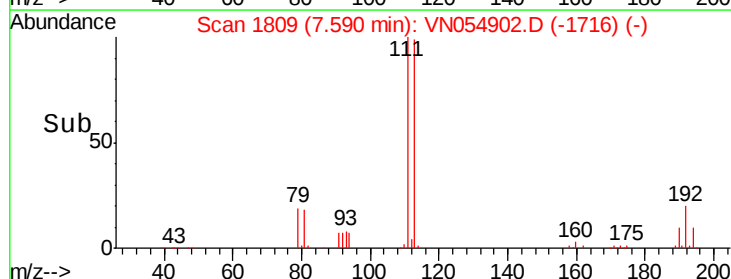
192 20.2 19.2 28.8

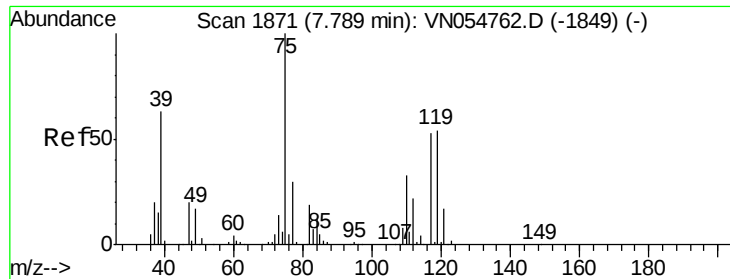


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

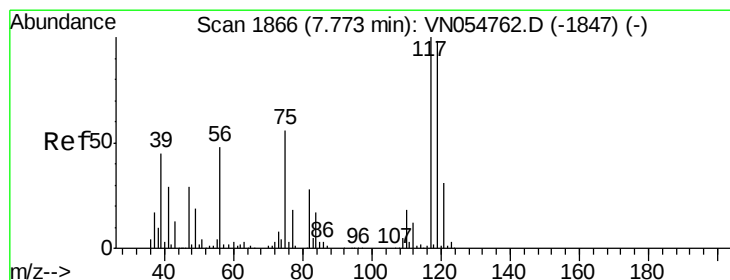
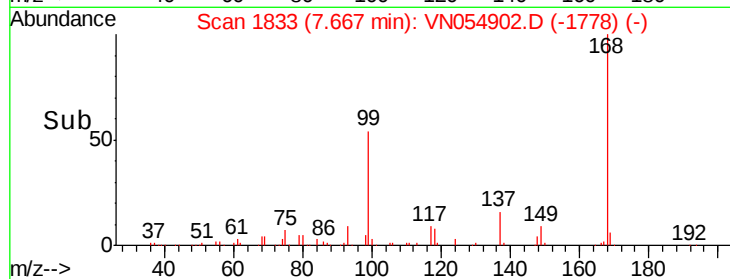
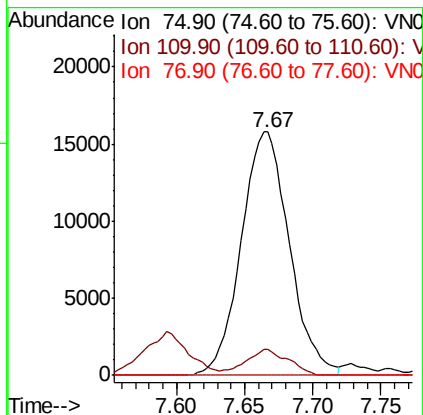
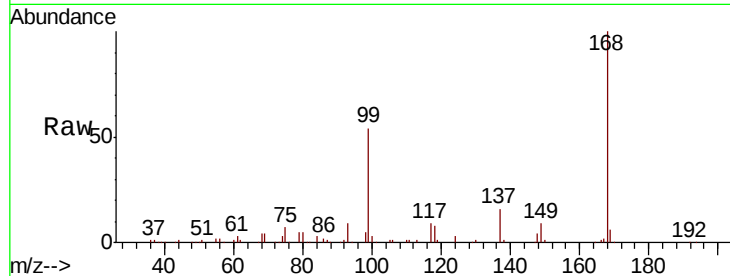




#36
 1,1-Dichloropropene
 Concen: 4.754 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.12 min
 Lab File: VN054902.D
 Acq: 2 Apr 2019 15:24

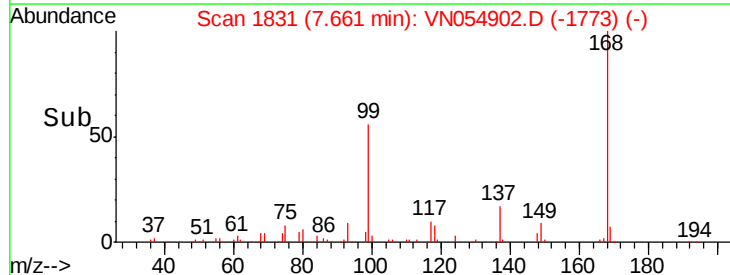
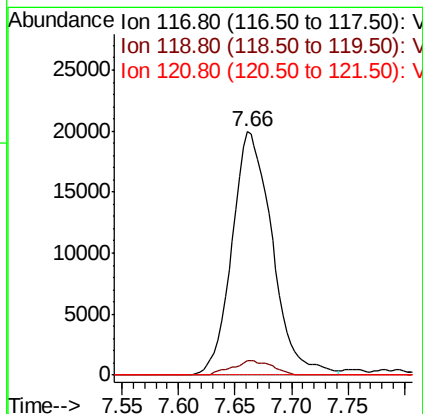
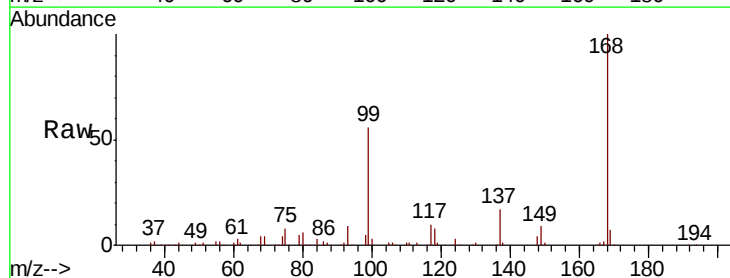
Instrument :
 MSVOA_N
 ClientSampleId :

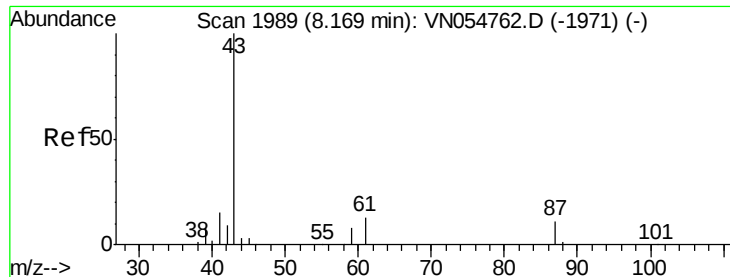
Tot Ion	75	Resp	38634
Ion Ratio	100	Lower	Upper
75	100		
110	9.5	19.1	57.5#
77	0.0	25.0	37.4#



#38
 Carbon Tetrachloride
 Concen: 6.255 ug/l
 RT: 7.66 min Scan# 1831
 Delta R.T. -0.11 min
 Lab File: VN054902.D
 Acq: 2 Apr 2019 15:24

Tgt Ion	117	Resp	49374
Ion Ratio <td>100</td> <td>Lower</td> <td>Upper</td>	100	Lower	Upper
117	100		
119	5.8	76.3	114.5#
121	0.0	24.6	36.8#





#43

Isopropyl Acetate

Concen: 1.550 ug/l

RT: 8.17 min Scan# 1989

Delta R.T. -0.00 min

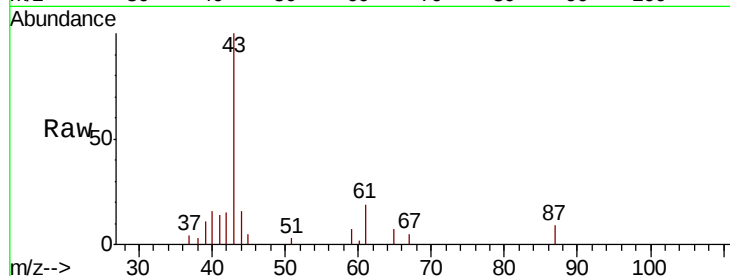
Lab File: VN054902.D

Acq: 2 Apr 2019 15:24

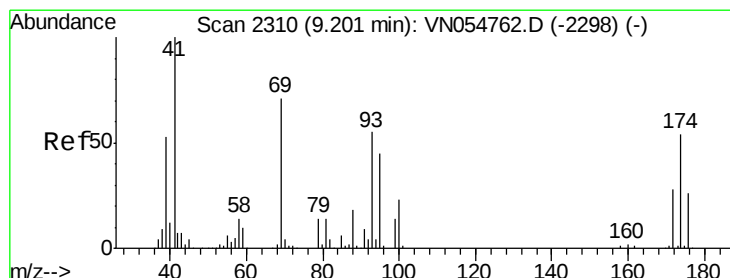
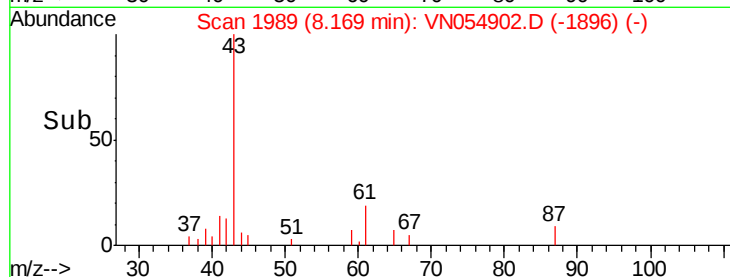
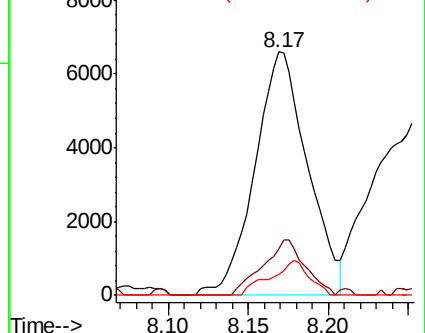
Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 43 Resp: 15010

Ion	Ratio	Lower	Upper
43	100		
61	18.3	15.8	23.8
87	10.6	12.0	18.0#



Abundance Ion 43.00 (42.70 to 43.70): VN0
Ion 61.00 (60.70 to 61.70): VN0
Ion 87.00 (86.70 to 87.70): VN0



#48

Methyl methacrylate

Concen: 1.541 ug/l

RT: 9.18 min Scan# 2305

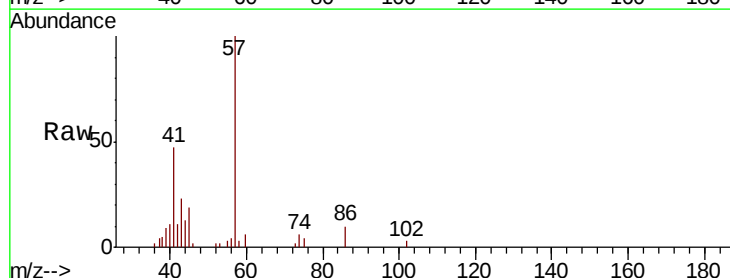
Delta R.T. -0.02 min

Lab File: VN054902.D

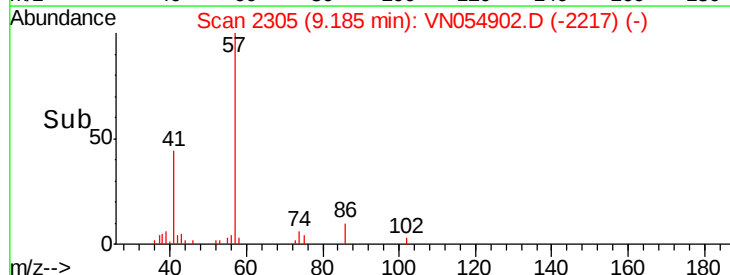
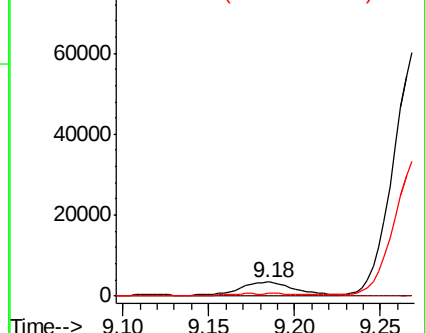
Acq: 2 Apr 2019 15:24

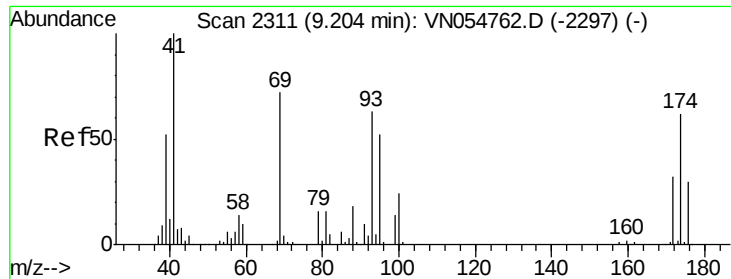
Tgt Ion: 41 Resp: 8088

Ion	Ratio	Lower	Upper
41	100		
69	0.0	72.6	108.8#
39	0.0	47.5	71.3#



Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0





#49

1,4-Dioxane

Concen: 4.493 ug/l

RT: 9.27 min Scan# 2331

Delta R.T. 0.06 min

Lab File: VN054902.D

Acq: 2 Apr 2019 15:24

Instrument :
MSVOA_N
ClientSampled :

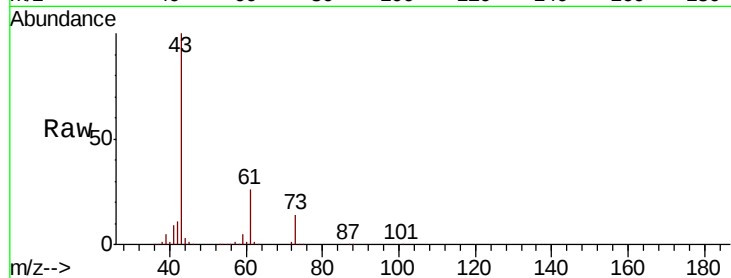
Tot Ion: 88 Resp: 234

Ion Ratio Lower Upper

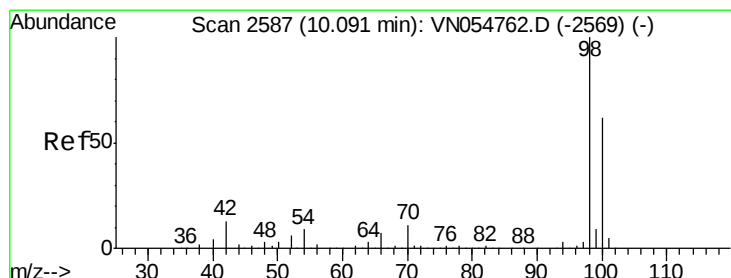
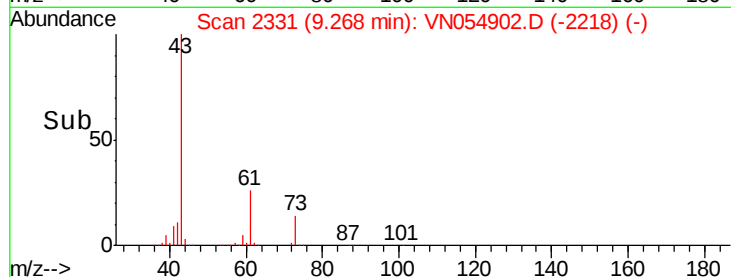
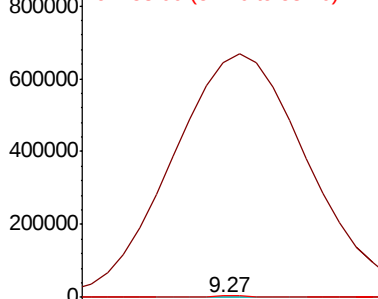
88 100

43 561498.7 24.1 36.1#

58 2320.1 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: 48.608 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN054902.D

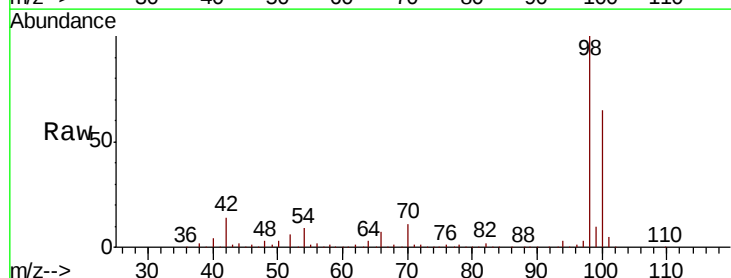
Acq: 2 Apr 2019 15:24

Tgt Ion: 98 Resp: 1050762

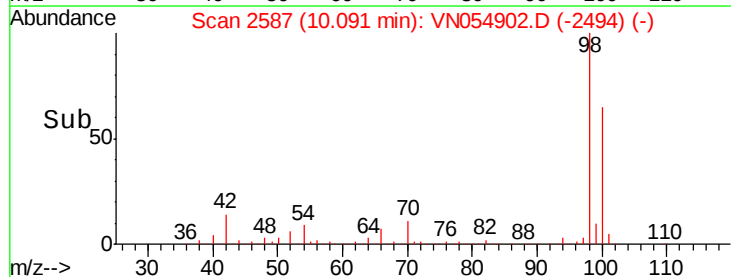
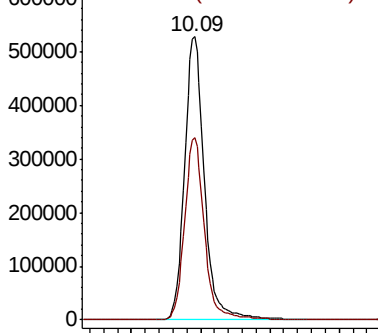
Ion Ratio Lower Upper

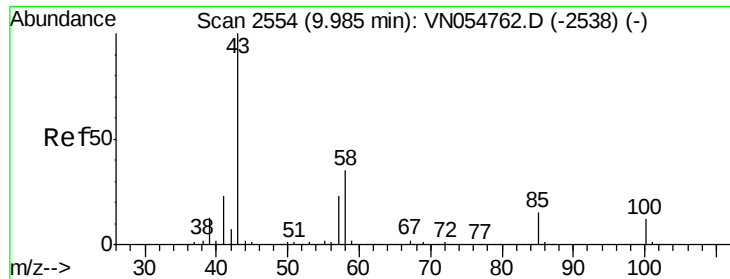
98 100

100 64.4 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: 1.496 ug/l

RT: 10.03 min Scan# 2567

Delta R.T. 0.04 min

Lab File: VN054902.D

Acq: 2 Apr 2019 15:24

Instrument :

MSVOA_N

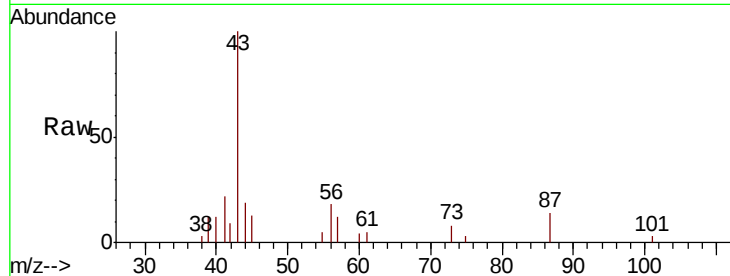
ClientSampled :

Tot Ion: 43 Resp: 8147

Ion Ratio Lower Upper

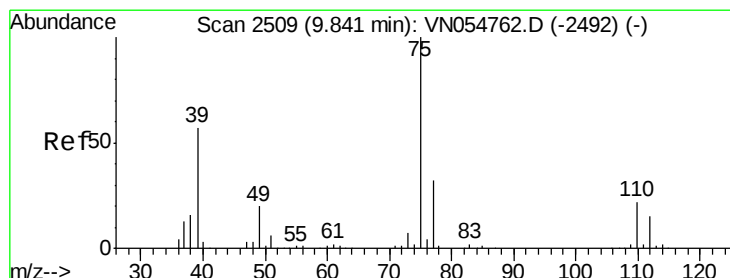
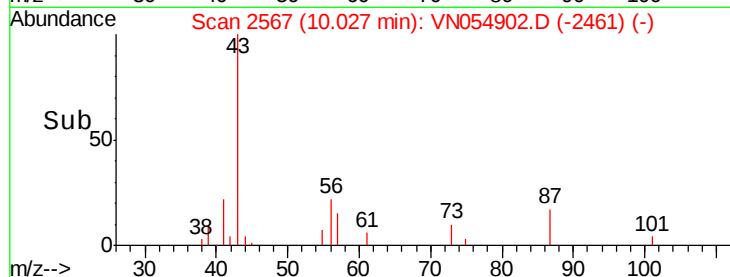
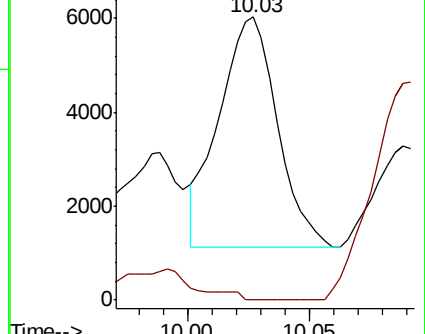
43 100

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



#54

cis-1,3-Dichloropropene

Concen: 5.821 ug/l

RT: 9.90 min Scan# 2529

Delta R.T. 0.06 min

Lab File: VN054902.D

Acq: 2 Apr 2019 15:24

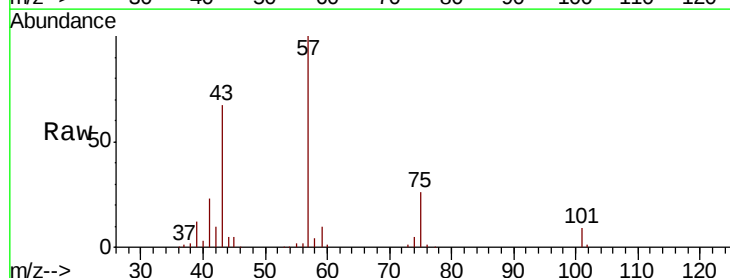
Tgt Ion: 75 Resp: 50706

Ion Ratio Lower Upper

75 100

77 0.7 25.4 38.0#

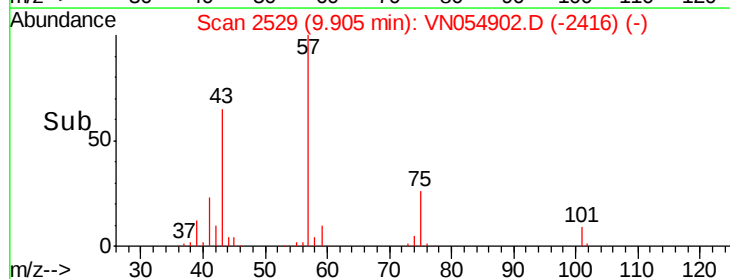
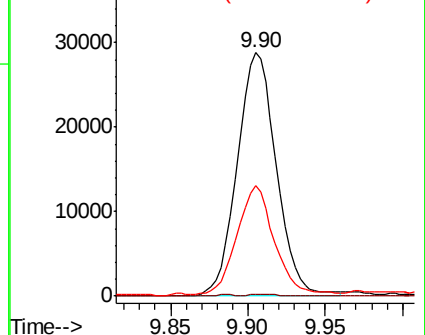
39 44.7 37.2 55.8

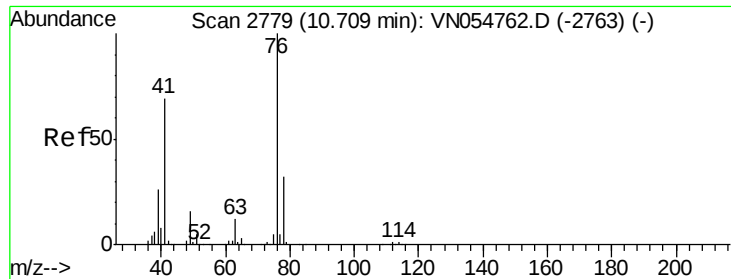


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0





#57

1,3-Dichloropropane

Concen: 1.088 ug/l

RT: 10.77 min Scan# 2797

Delta R.T. 0.06 min

Lab File: VN054902.D

Acq: 2 Apr 2019 15:24

Instrument :

MSVOA_N

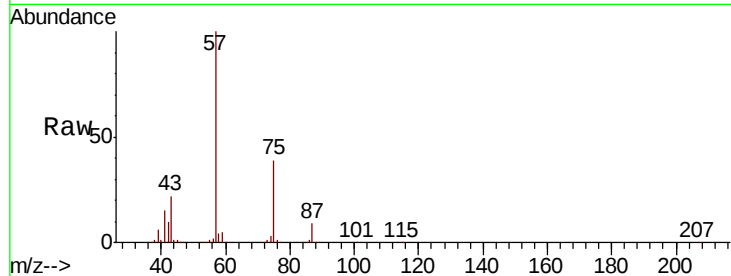
ClientSampleId :

Tot Ion: 76 Resp: 9626

Ion Ratio Lower Upper

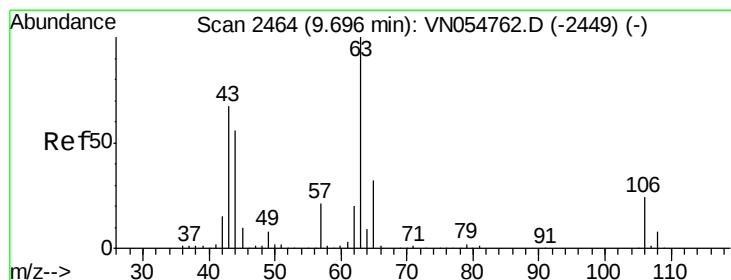
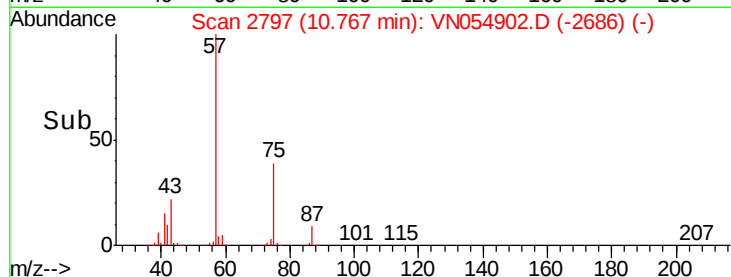
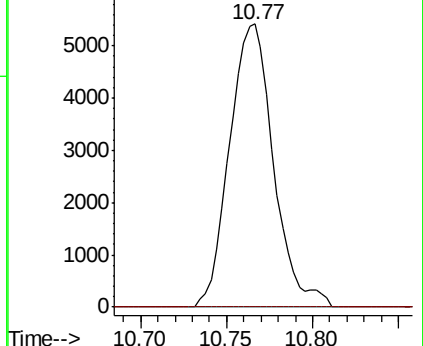
76 100

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



#58

2-Chloroethyl Vinyl ether

Concen: 10.379 ug/l

RT: 9.44 min Scan# 2383

Delta R.T. -0.26 min

Lab File: VN054902.D

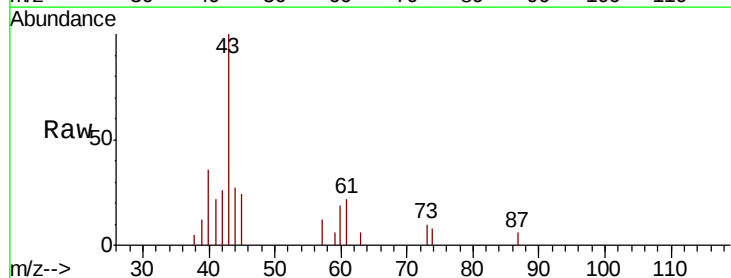
Acq: 2 Apr 2019 15:24

Tgt Ion: 63 Resp: 73

Ion Ratio Lower Upper

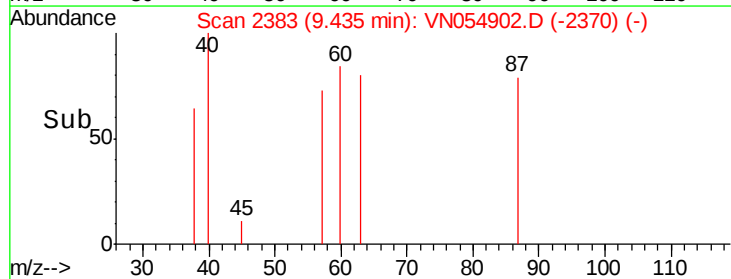
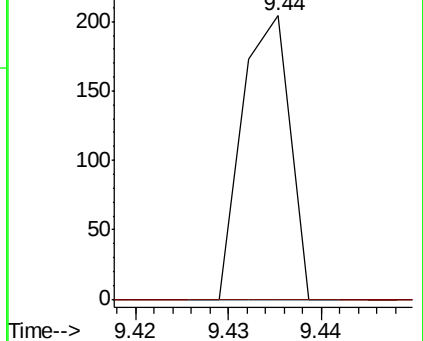
63 100

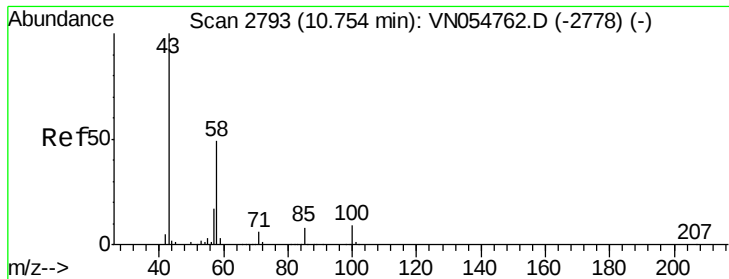
106 0.0 24.4 36.6#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 105.90 (105.60 to 106.60): V

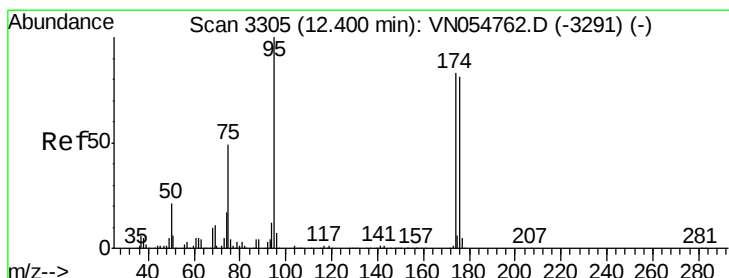
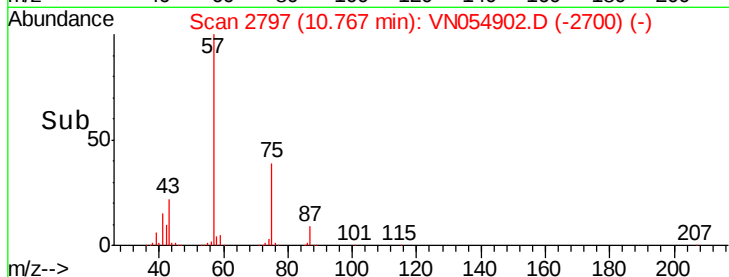
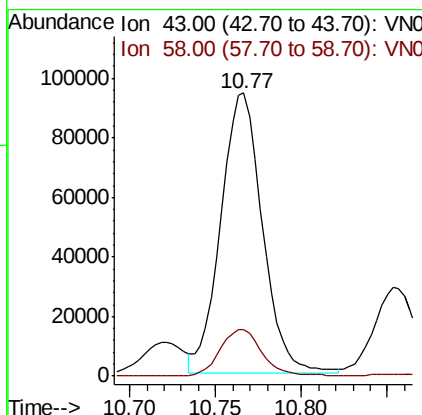
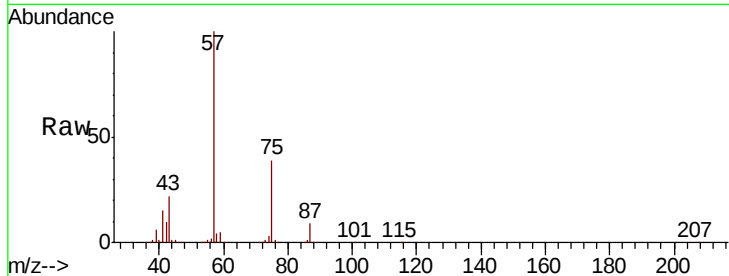




#59
2-Hexanone
Concen: 45.608 ug/l
RT: 10.77 min Scan# 2797
Delta R.T. 0.01 min
Lab File: VN054902.D
Acq: 2 Apr 2019 15:24

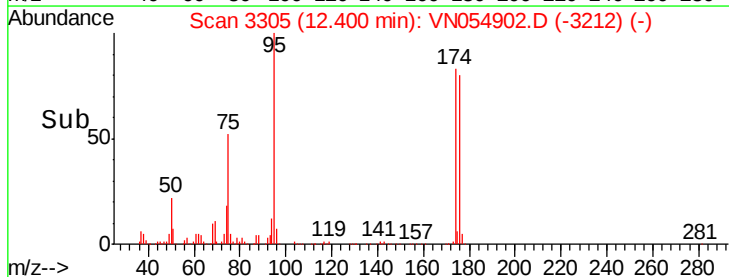
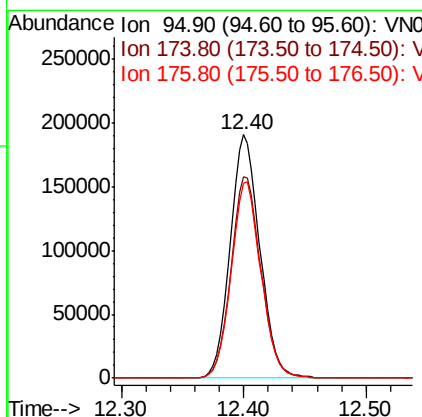
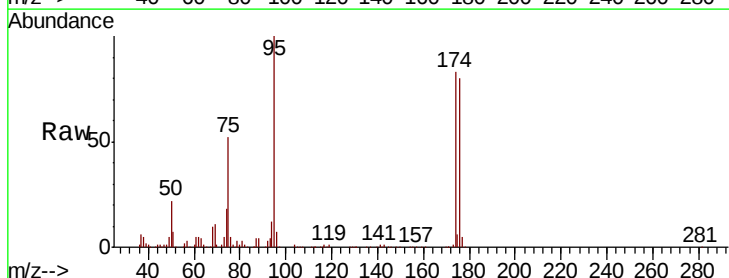
Instrument :
MSVOA_N
ClientSampled :

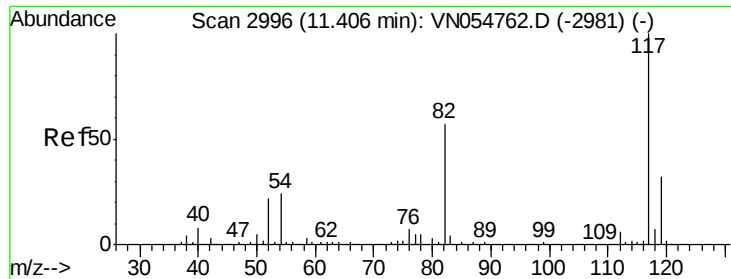
Tot Ion: 43 Resp: 158953
Ion Ratio Lower Upper
43 100
58 16.9 28.0 83.9#



#62
4-Bromofluorobenzene
Concen: 44.916 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. -0.00 min
Lab File: VN054902.D
Acq: 2 Apr 2019 15:24

Tgt Ion: 95 Resp: 322915
Ion Ratio Lower Upper
95 100
174 83.5 0.0 191.0
176 80.9 0.0 187.4

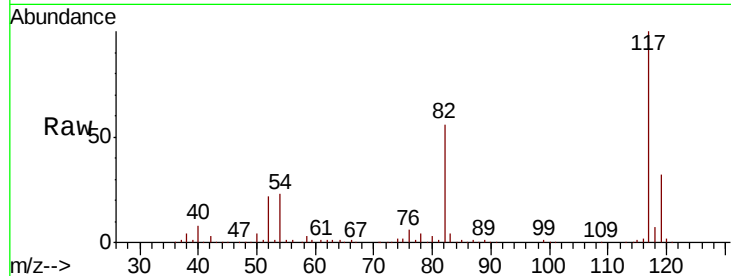




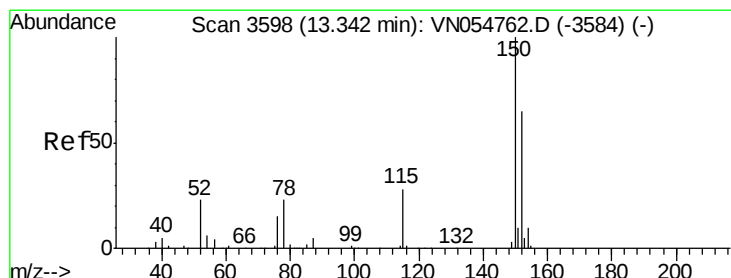
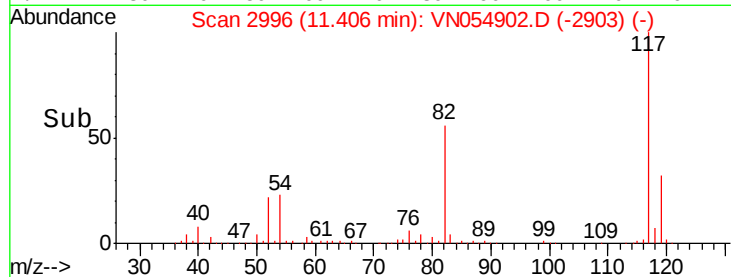
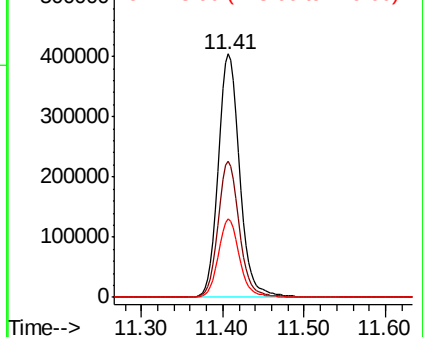
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN054902.D
Acq: 2 Apr 2019 15:24

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:117 Resp: 756425
Ion Ratio Lower Upper
117 100
82 55.8 40.0 60.0
119 32.4 25.8 38.6

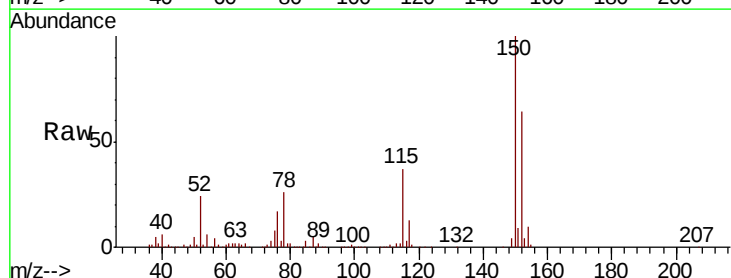


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

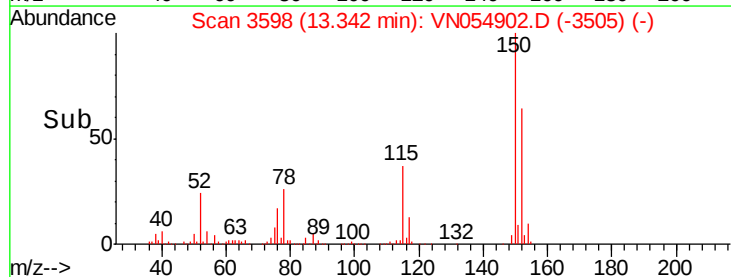
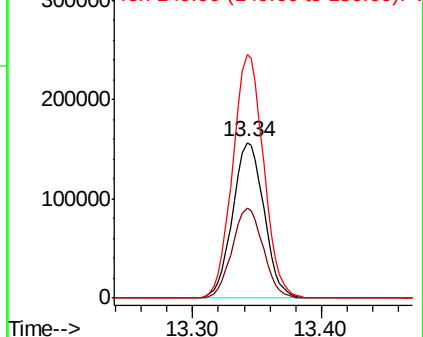


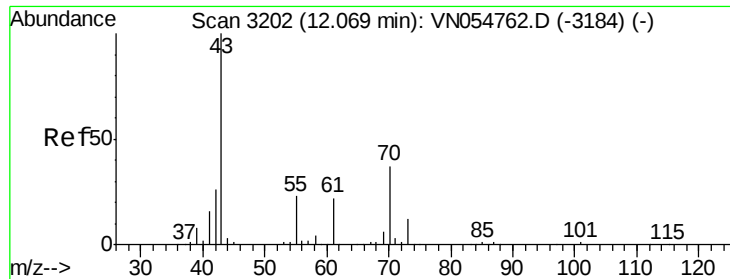
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3598
Delta R.T. -0.00 min
Lab File: VN054902.D
Acq: 2 Apr 2019 15:24

Tgt Ion:152 Resp: 265259
Ion Ratio Lower Upper
152 100
115 57.3 27.2 81.6
150 154.5 0.0 349.2



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





#74

N-amvl acetate

Concen: 2.189 ug/l

RT: 11.88 min Scan# 3143

Delta R.T. -0.19 min

Lab File: VN054902.D

Acq: 2 Apr 2019 15:24

Instrument :

MSVOA_N

ClientSampleId :

Tot Ion: 43 Resp: 14783

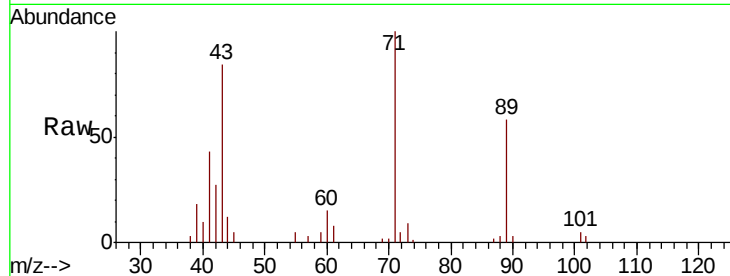
Ion Ratio Lower Upper

43 100

70 1.7 35.4 53.0#

55 5.2 19.8 29.6#

61 8.5 19.8 29.6#

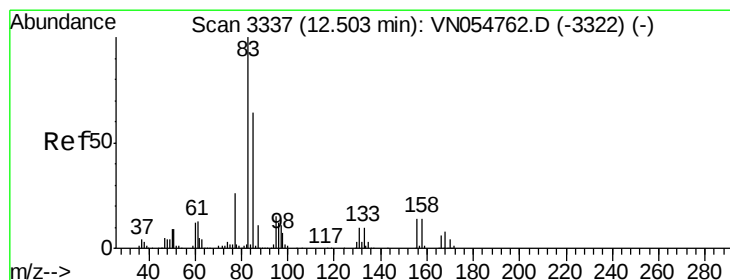
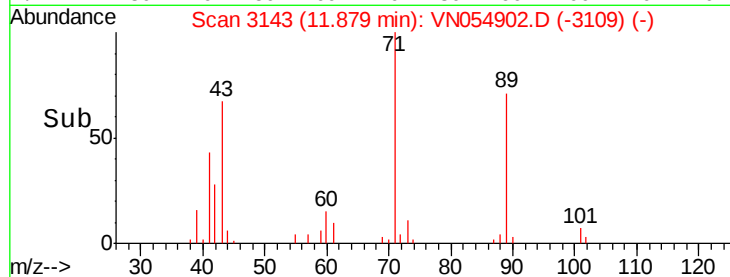
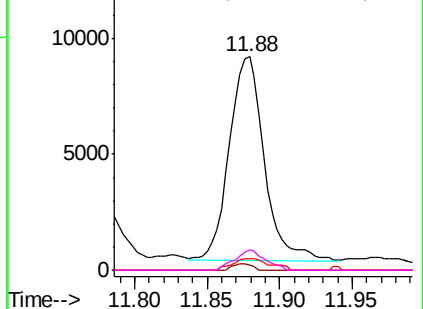


Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 70.00 (69.70 to 70.70): VNO

Ion 55.00 (54.70 to 55.70): VNO

Ion 61.00 (60.70 to 61.70): VNO



#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.40 min Scan# 3306

Delta R.T. -0.10 min

Lab File: VN054902.D

Acq: 2 Apr 2019 15:24

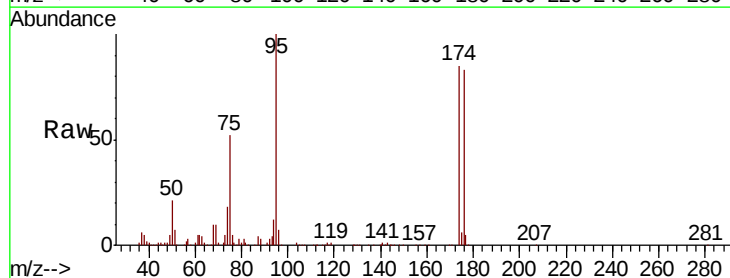
Tgt Ion: 83 Resp: 98

Ion Ratio Lower Upper

83 100

131 384.7 5.8 17.4#

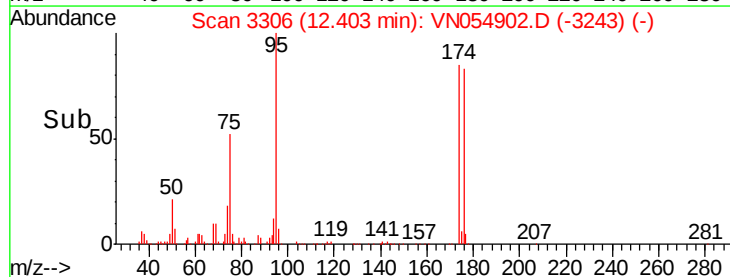
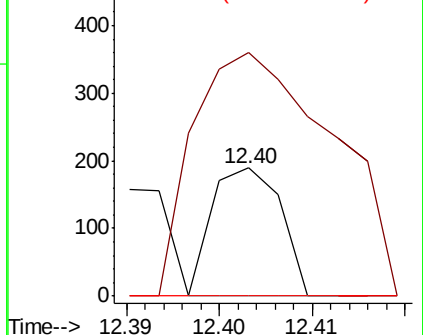
85 0.0 32.2 96.6#

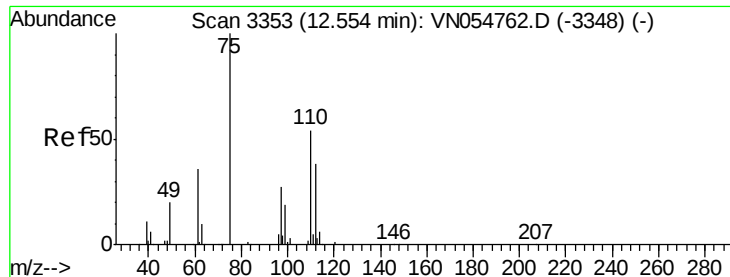


Abundance Ion 82.90 (82.60 to 83.60): VNO

Ion 130.80 (130.50 to 131.50): VNO

Ion 84.90 (84.60 to 85.60): VNO





#76

1,2,3-Trichloropropane

Concen: 36.310 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN054902.D

Acq: 2 Apr 2019 15:24

Instrument :

MSVOA_N

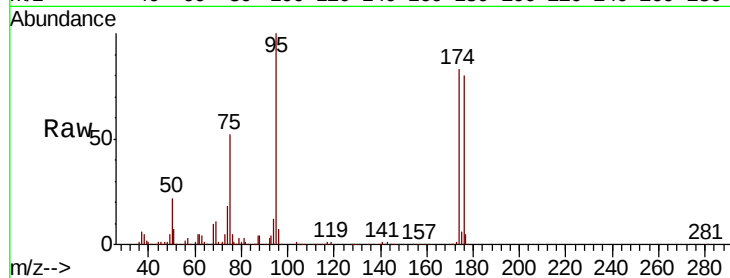
ClientSampled :

Tot Ion: 75 Resp: 167322

Ion Ratio Lower Upper

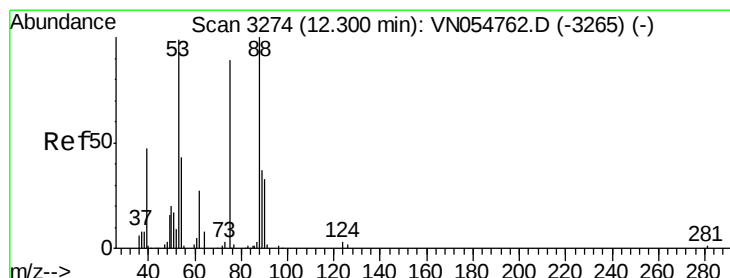
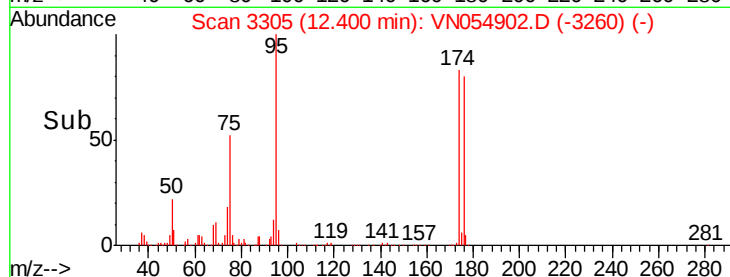
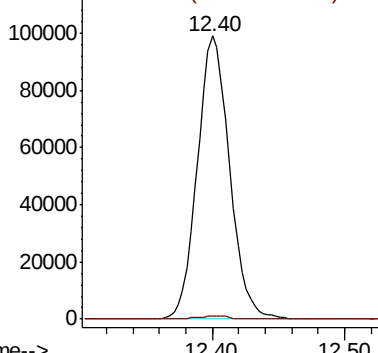
75 100

77 1.1 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: 141.236 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN054902.D

Acq: 2 Apr 2019 15:24

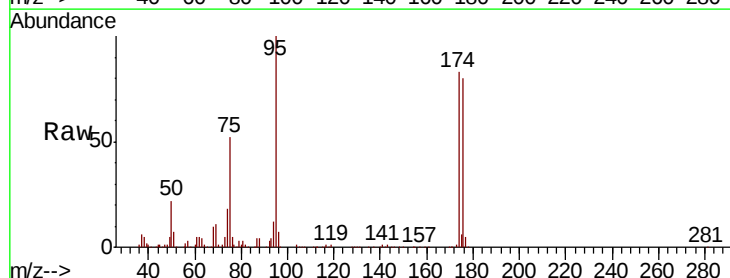
Tgt Ion: 75 Resp: 167322

Ion Ratio Lower Upper

75 100

53 0.0 76.2 114.2#

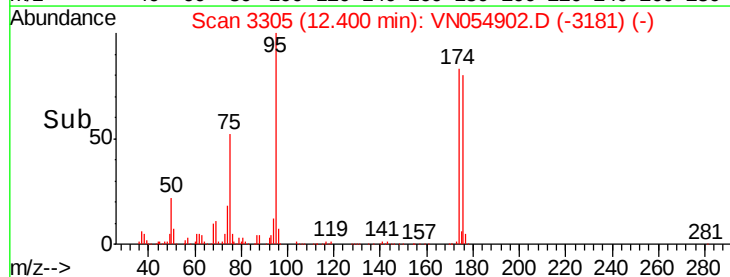
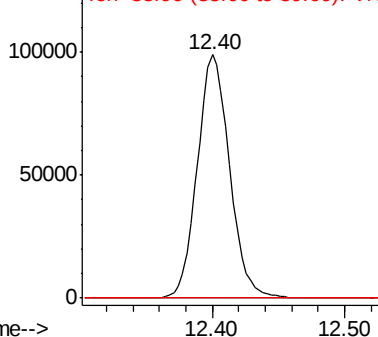
89 0.0 39.2 58.8#

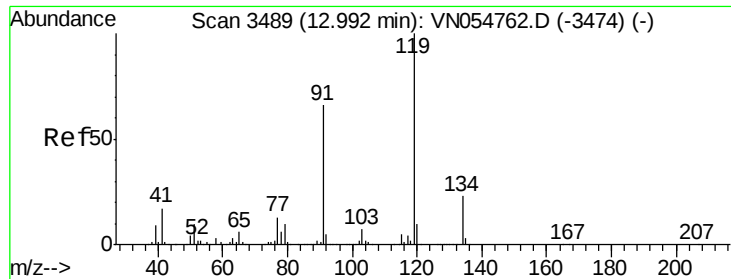


Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO

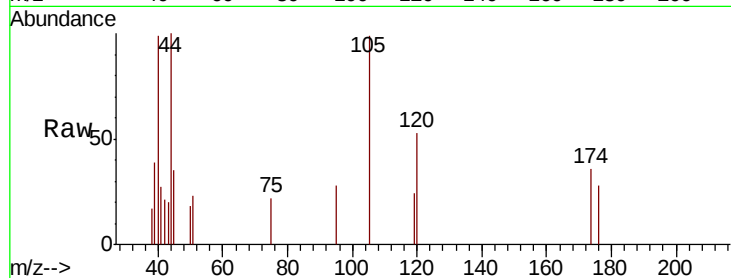




#83
 tert-Butylbenzene
 Concen: Below Cal
 RT: 12.73 min Scan# 3409
 Delta R.T. -0.26 min
 Lab File: VN054902.D
 Acq: 2 Apr 2019 15:24

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
119	100		
91	18.6	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): VN
 Ion 134.00 (133.70 to 134.70): V

