

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN112118\
 Data File : VN052437.D
 Acq On : 21 Nov 2018 14:44
 Operator : MD\SY
 Sample : PB114992ZHE#07
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 13 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Nov 21 23:57:49 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N111418W.M
 Quant Title : SW846 8260
 QLast Update : Thu Nov 15 03:02:37 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	303634	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	518484	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	457925	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	160093	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	236973	55.26	ug/l	0.00
Spiked Amount	50.000		Recovery	=	110.52%	
35) Dibromofluoromethane	7.59	113	173622	51.92	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.84%	
50) Toluene-d8	10.09	98	662784	50.38	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.76%	
62) 4-Bromofluorobenzene	12.40	95	202322	46.75	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.50%	

Target Compounds

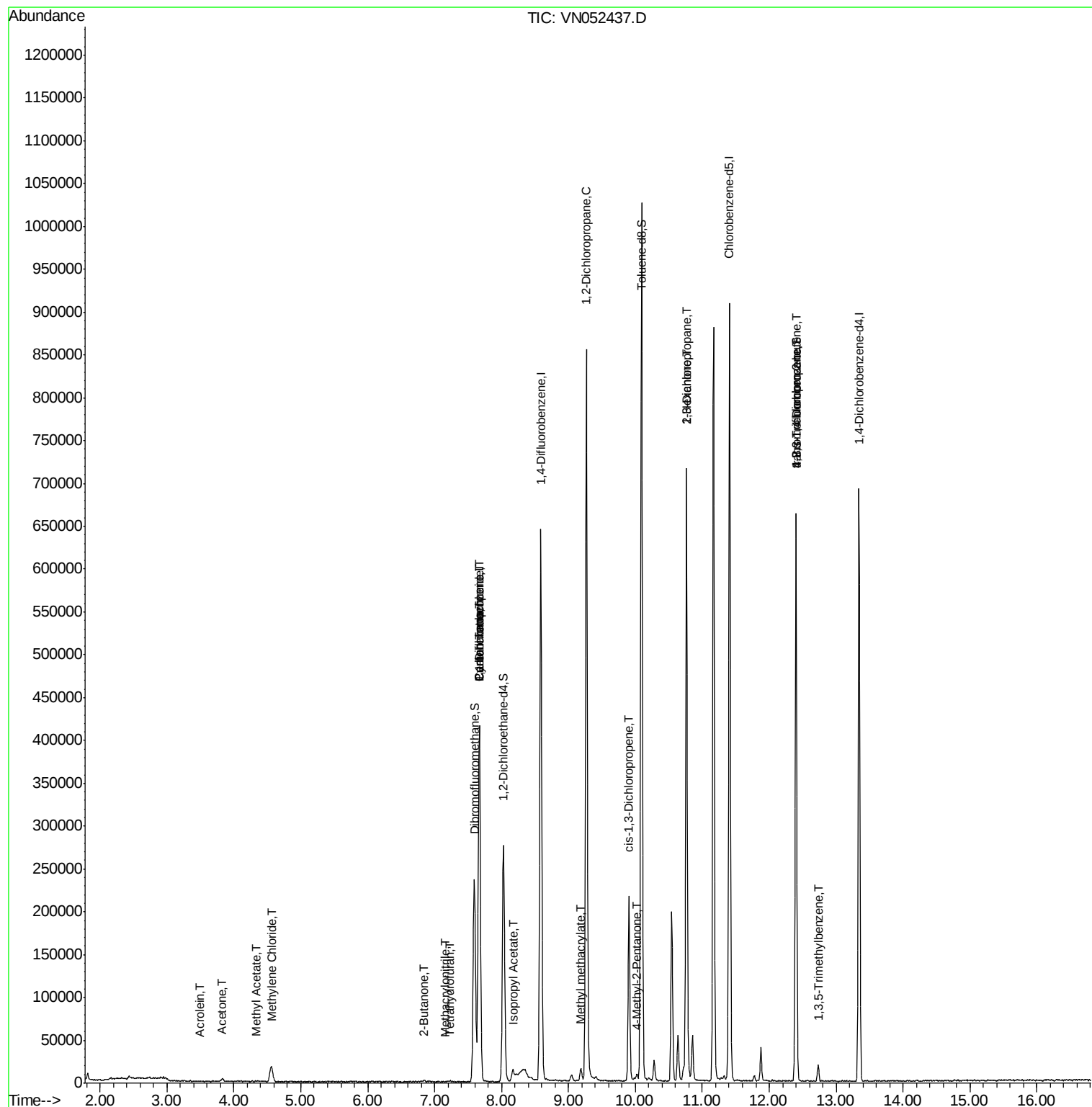
						Qvalue
13) Acrolein	3.48	56	30	21.851	ug/l #	14
16) Acetone	3.83	43	5732	4.855	ug/l	98
18) Methyl Acetate	4.34	43	910	0.704	ug/l	92
20) Methylene Chloride	4.56	84	11136	2.434	ug/l	92
25) 2-Butanone	6.84	43	523	0.315	ug/l #	52
29) Tetrahydrofuran	7.21	42	515	0.472	ug/l #	40
31) Cyclohexane	7.67	56	9745	0.444	ug/l #	32
36) 1,1-Dichloropropene	7.67	75	27885	5.366	ug/l #	51
38) Carbon Tetrachloride	7.67	117	33496	7.016	ug/l #	16
41) Methacrylonitrile	7.16	41	62	3.723	ug/l #	100
43) Isopropyl Acetate	8.17	43	19920	2.737	ug/l #	93
45) 1,2-Dichloropropane	9.27	63	1198	0.284	ug/l #	44
48) Methyl methacrylate	9.18	41	4903	1.328	ug/l #	16
51) 4-Methyl-2-Pentanone	10.02	43	5394	1.472	ug/l #	41
54) cis-1,3-Dichloropropene	9.90	75	31432	5.462	ug/l #	80
57) 1,3-Dichloropropane	10.76	76	6838	1.199	ug/l #	43
59) 2-Hexanone	10.76	43	118320	46.956	ug/l #	55
76) 1,2,3-Trichloropropane	12.40	75	120075	44.203	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	9128	0.892	ug/l	98
81) trans-1,4-Dichloro-2-buten	12.40	75	120075	143.366	ug/l #	5

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN052437.D

Acq: 21 Nov 2018 14:44

Instrument :

MSVOA_N

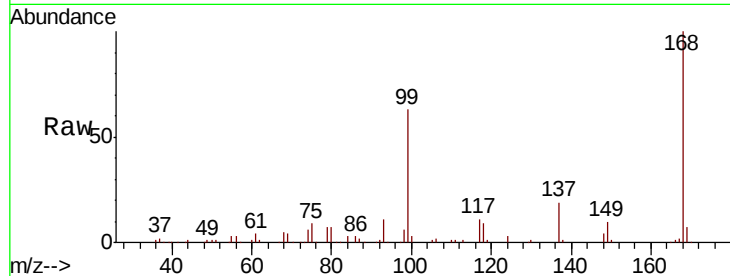
ClientSampled :

Tot Ion:168 Resp: 303634

Ion Ratio Lower Upper

168 100

99 63.5 47.9 71.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.67

150000

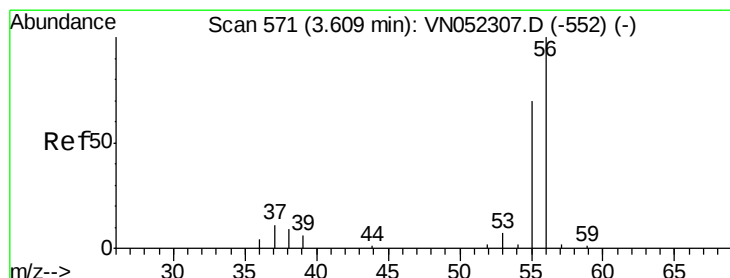
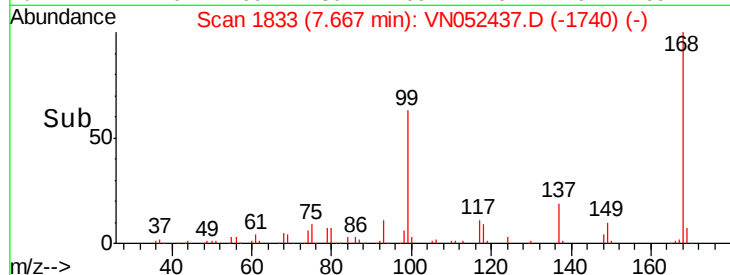
100000

50000

0

Time-->

7.60 7.70 7.80



#13

Acrolein

Concen: 21.851 ug/l

RT: 3.48 min Scan# 531

Delta R.T. -0.13 min

Lab File: VN052437.D

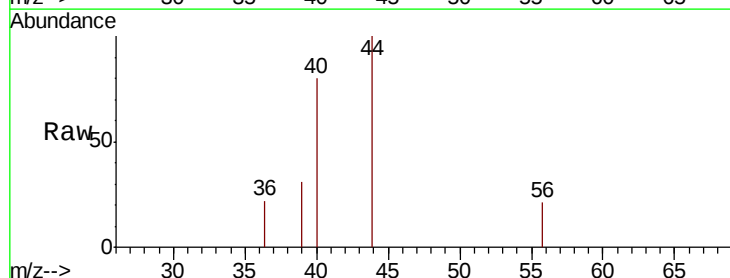
Acq: 21 Nov 2018 14:44

Tgt Ion: 56 Resp: 30

Ion Ratio Lower Upper

56 100

55 0.0 57.6 86.4#



Abundance Ion 56.00 (55.70 to 56.70): VNO

Ion 55.00 (54.70 to 55.70): VNO

3.48

150

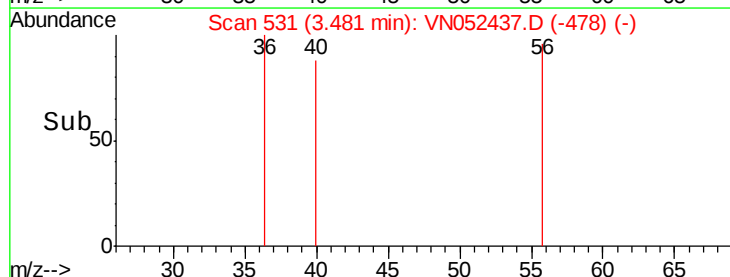
100

50

0

Time-->

3.47 3.48 3.48 3.49





#16

Acetone

Concen: 4.855 ug/l

RT: 3.83 min Scan# 639

Delta R.T. 0.01 min

Lab File: VN052437.D

Acq: 21 Nov 2018 14:44

Instrument :

MSVOA_N

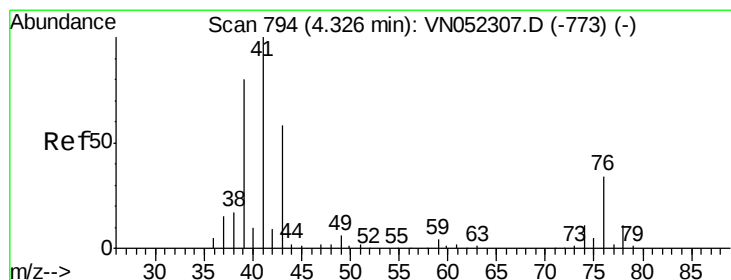
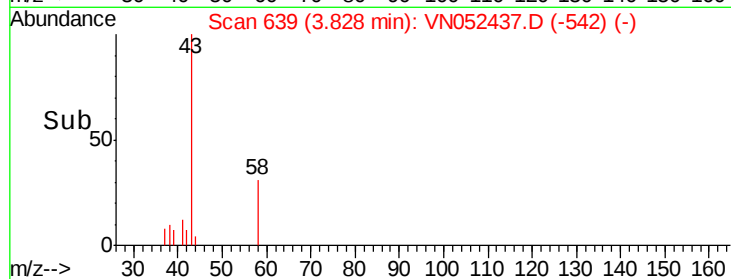
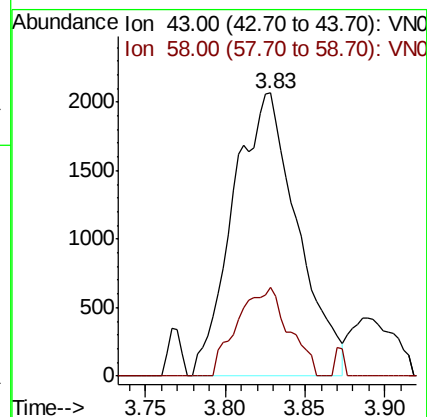
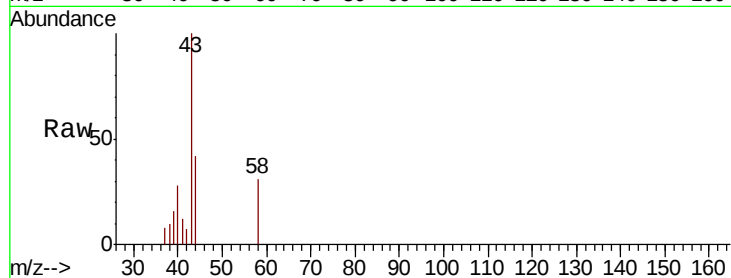
ClientSampleId :

Tot Ion: 43 Resp: 5732

Ion Ratio Lower Upper

43 100

58 31.3 24.2 36.4



#18

Methyl Acetate

Concen: 0.704 ug/l

RT: 4.34 min Scan# 799

Delta R.T. 0.02 min

Lab File: VN052437.D

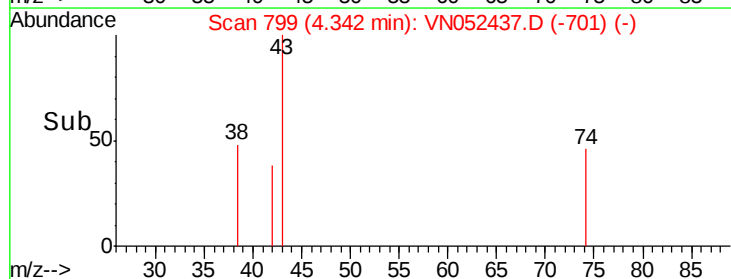
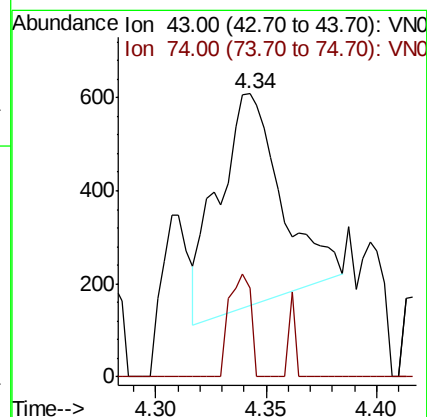
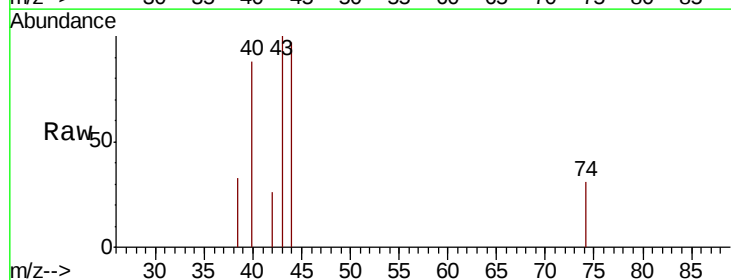
Acq: 21 Nov 2018 14:44

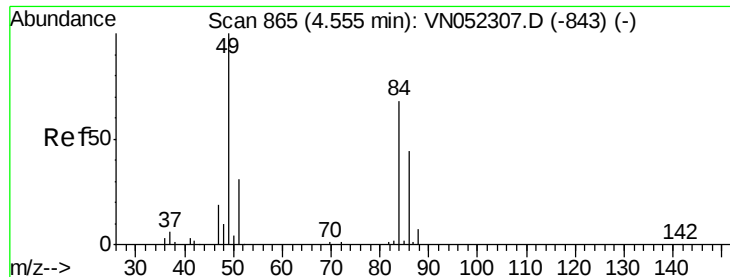
Tgt Ion: 43 Resp: 910

Ion Ratio Lower Upper

43 100

74 16.4 15.9 23.9

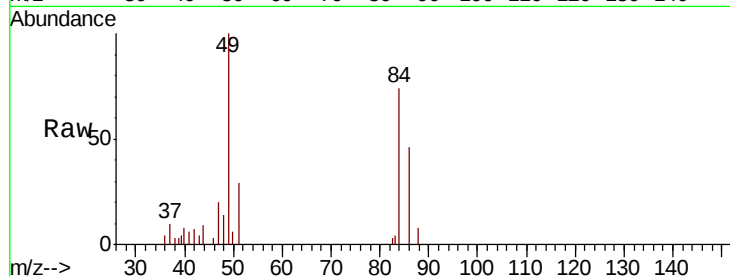




#20
Methvlene Chloride
Concen: 2.434 ug/l
RT: 4.56 min Scan# 867
Delta R.T. 0.01 min
Lab File: VN052437.D
Acq: 21 Nov 2018 14:44

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:	84	Resp:	11136
Ion	Ratio	Lower	Upper
84	100		
49	135.6	118.2	177.2
51	38.7	36.1	54.1
86	62.2	51.6	77.4



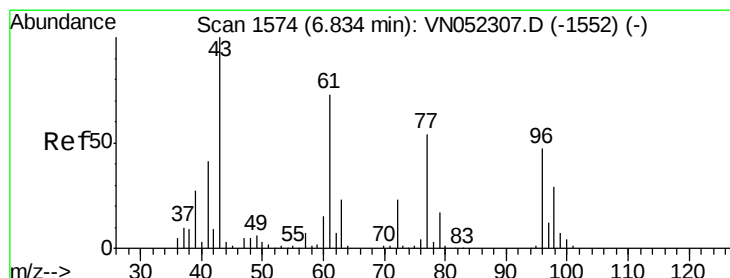
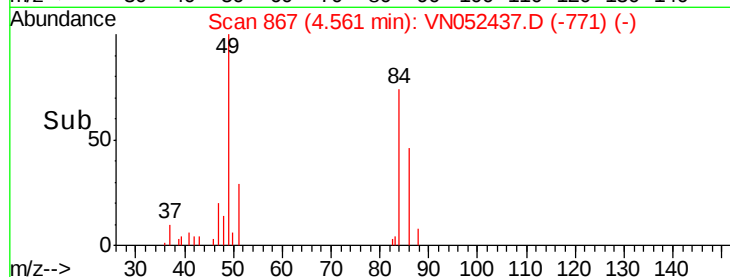
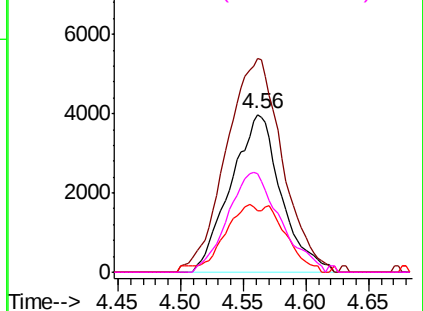
Abundance

Ion 83.90 (83.60 to 84.60): VN0

Ion 48.90 (48.60 to 49.60): VN0

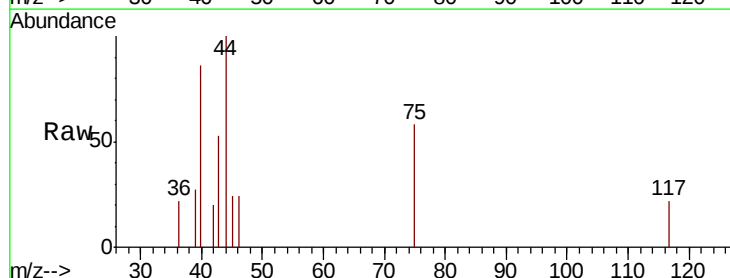
Ion 50.90 (50.60 to 51.60): VN0

Ion 85.90 (85.60 to 86.60): VN0



#25
2-Butanone
Concen: 0.315 ug/l
RT: 6.84 min Scan# 1575
Delta R.T. 0.00 min
Lab File: VN052437.D
Acq: 21 Nov 2018 14:44

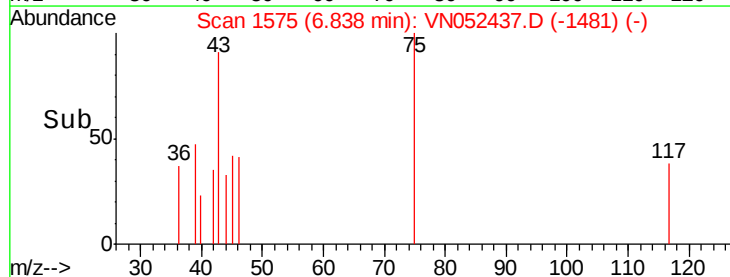
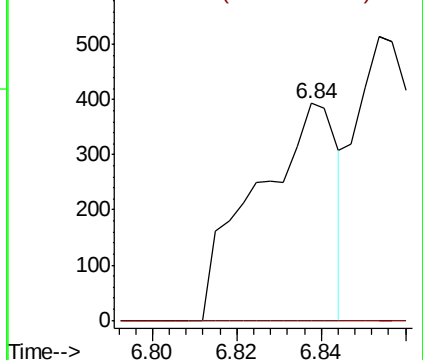
Tgt Ion:	43	Resp:	523
Ion	Ratio	Lower	Upper
43	100		
72	0.0	18.6	27.8#

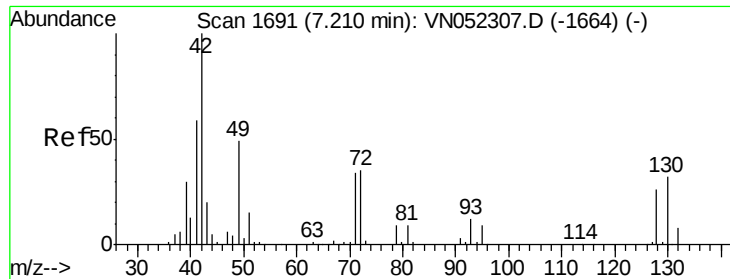


Abundance

Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

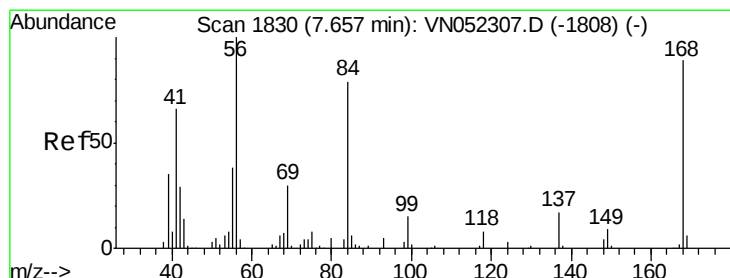
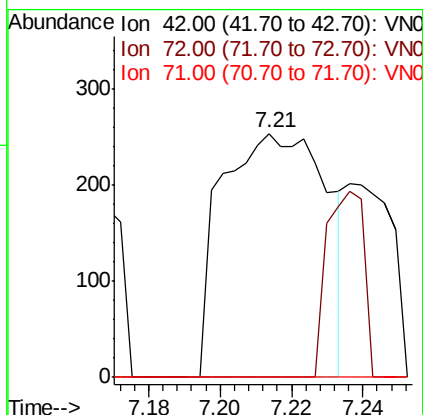
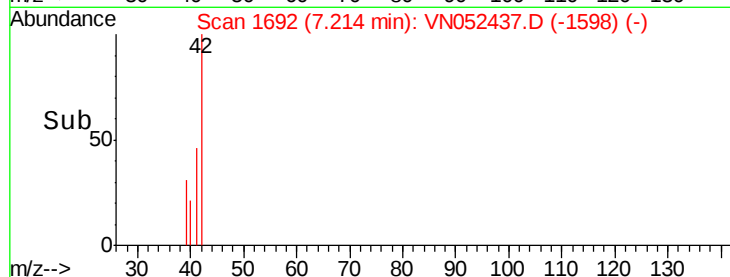
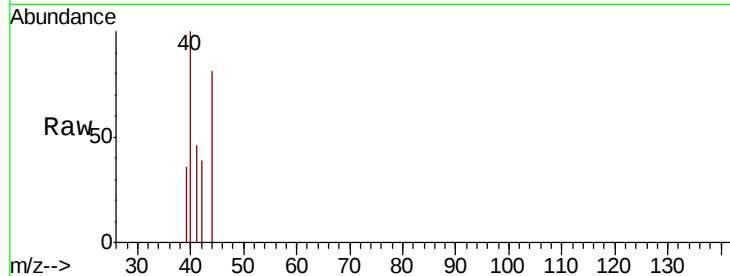




#29
Tetrahydrofuran
Concen: 0.472 ug/l
RT: 7.21 min Scan# 1692
Delta R.T. 0.00 min
Lab File: VN052437.D
Acq: 21 Nov 2018 14:44

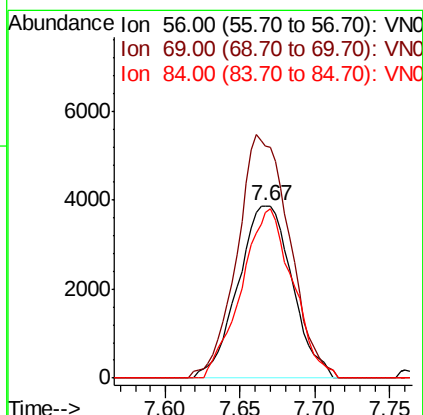
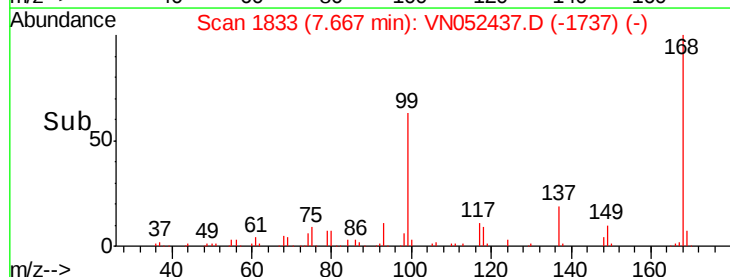
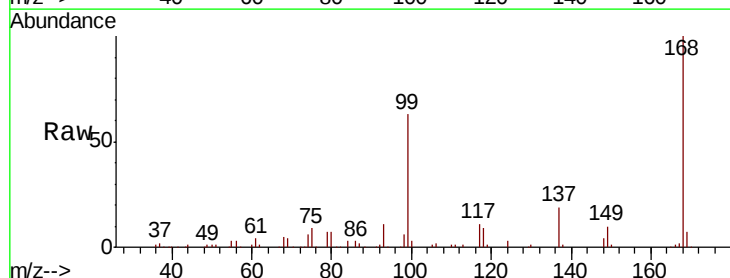
Instrument :
MSVOA_N
ClientSampleId :

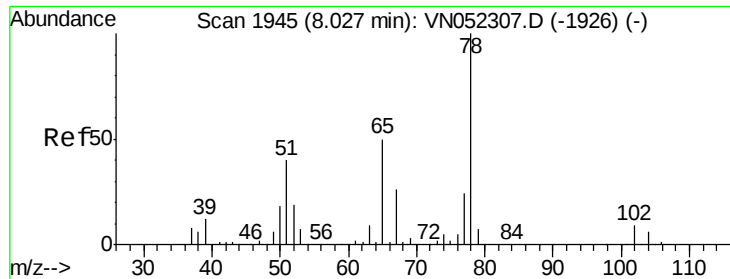
Tot Ion: 42 Resp: 515
Ion Ratio Lower Upper
42 100
72 0.0 28.6 42.8#
71 0.0 26.7 40.1#



#31
Cyclohexane
Concen: 0.444 ug/l
RT: 7.67 min Scan# 1833
Delta R.T. 0.01 min
Lab File: VN052437.D
Acq: 21 Nov 2018 14:44

Tgt Ion: 56 Resp: 9745
Ion Ratio Lower Upper
56 100
69 134.8 23.8 35.8#
84 96.0 63.0 94.6#

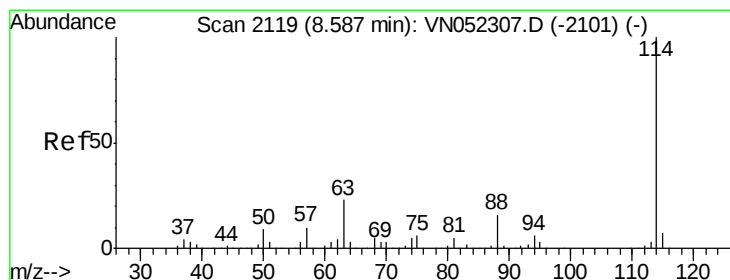
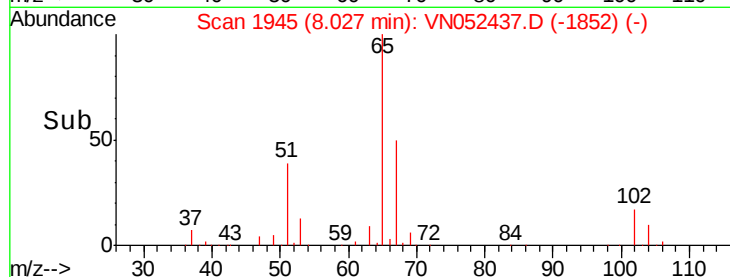
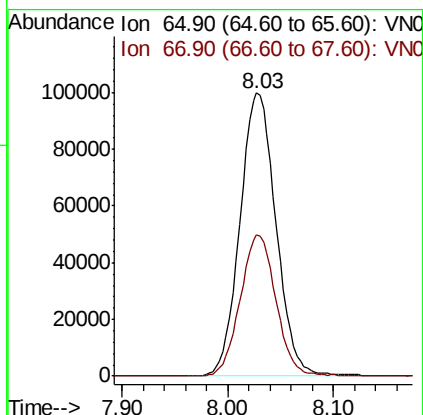
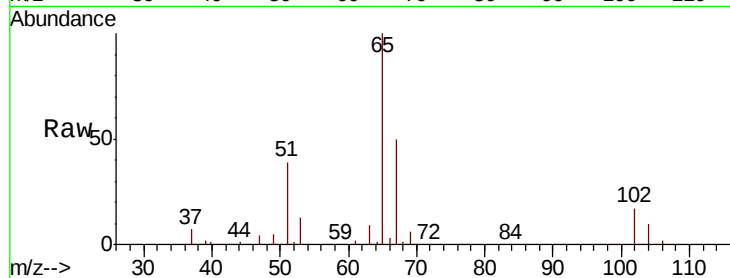




#33
 1,2-Dichloroethane-d4
 Concen: Below ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN052437.D
 Acq: 21 Nov 2018 14:44

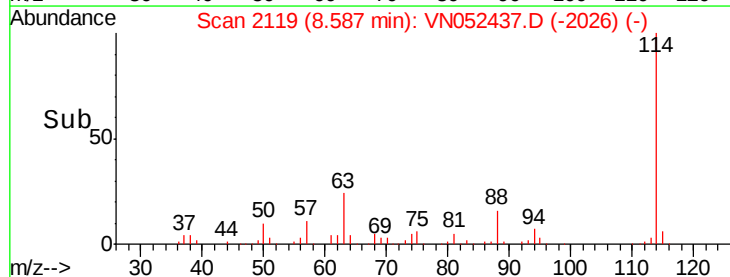
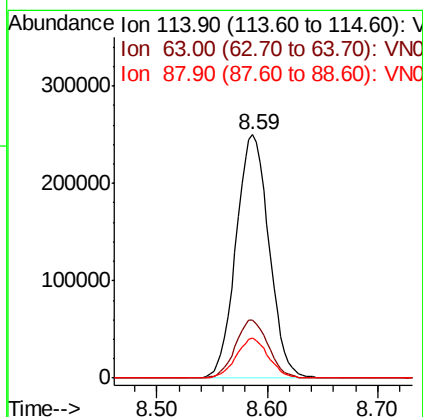
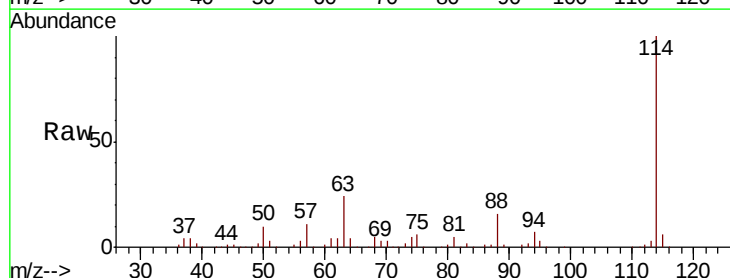
Instrument :
 MSVOA_N
 ClientSampled :

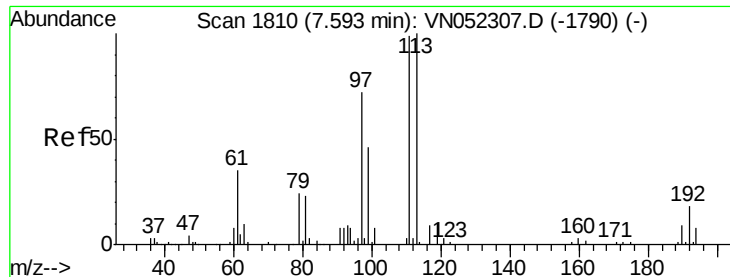
Tot Ion: 65 Resp: 236973
 Ion Ratio Lower Upper
 65 100
 67 49.5 0.0 105.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN052437.D
 Acq: 21 Nov 2018 14:44

Tgt Ion: 114 Resp: 518484
 Ion Ratio Lower Upper
 114 100
 63 23.6 0.0 45.4
 88 16.3 0.0 31.2

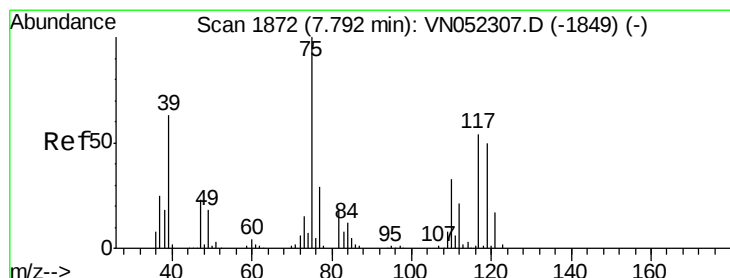
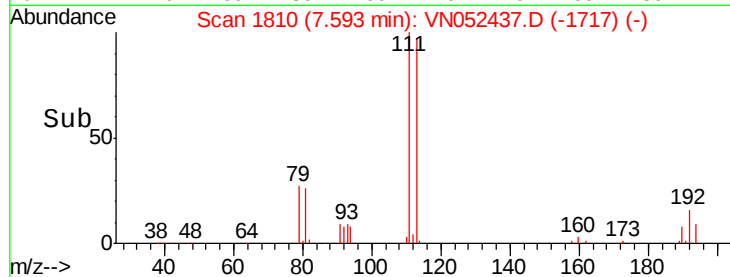
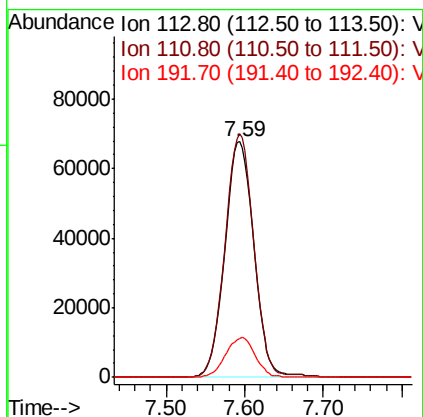
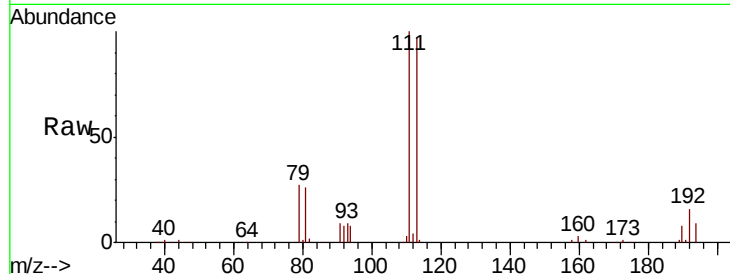




#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN052437.D
 Acq: 21 Nov 2018 14:44

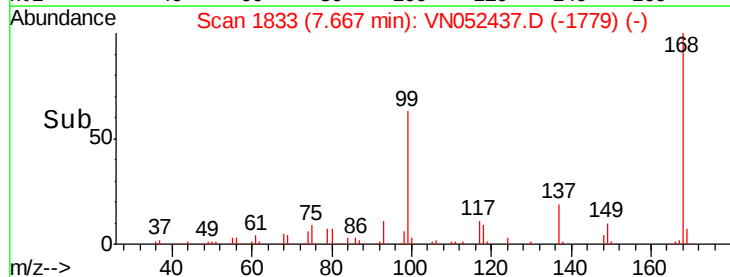
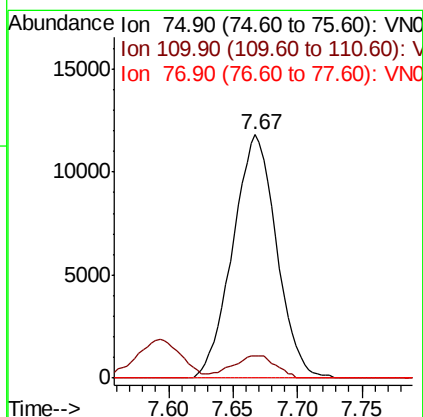
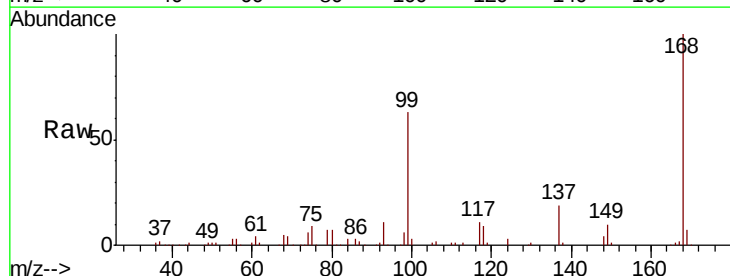
Instrument :
 MSVOA_N
 ClientSampleId :

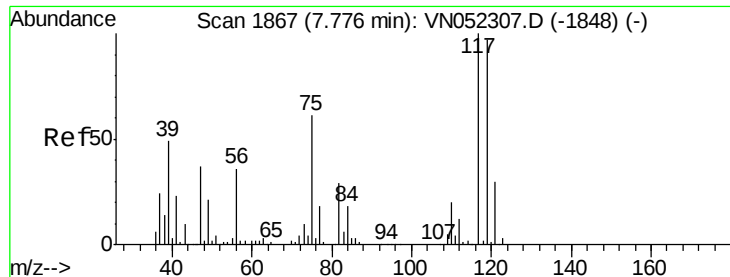
Tot Ion:113 Resp: 173622
 Ion Ratio Lower Upper
 113 100
 111 101.6 81.0 121.6
 192 17.2 13.8 20.6



#36
 1,1-Dichloropropene
 Concen: 5.366 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.13 min
 Lab File: VN052437.D
 Acq: 21 Nov 2018 14:44

Tgt Ion: 75 Resp: 27885
 Ion Ratio Lower Upper
 75 100
 110 9.2 16.5 49.5#
 77 0.0 24.2 36.2#





#38

Carbon Tetrachloride

Concen: 7.016 ug/l

RT: 7.67 min Scan# 1834

Delta R.T. -0.11 min

Lab File: VN052437.D

Acq: 21 Nov 2018 14:44

Instrument :

MSVOA_N

ClientSampleId :

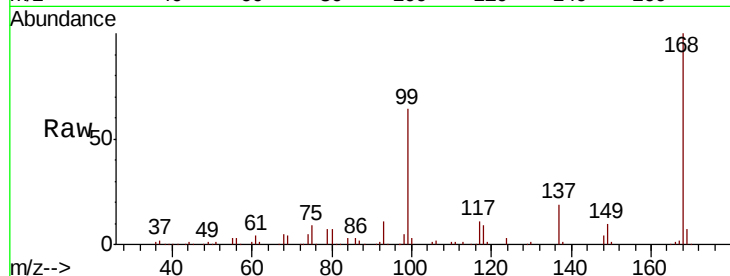
Tot Ion:117 Resp: 33496

Ion Ratio Lower Upper

117 100

119 6.1 77.4 116.0#

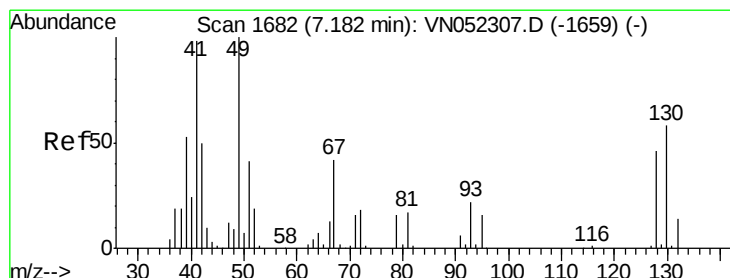
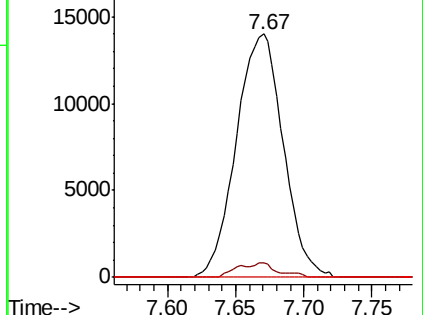
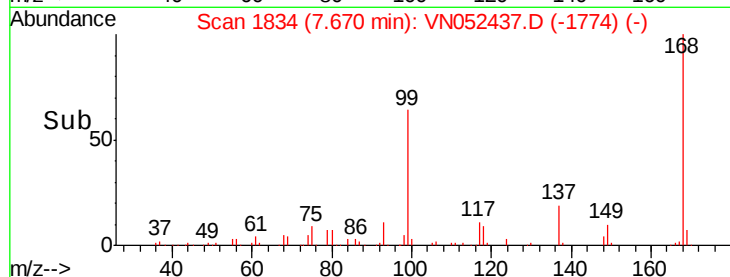
121 0.0 24.0 36.0#



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



#41

Methacrylonitrile

Concen: 3.723 ug/l

RT: 7.16 min Scan# 1676

Delta R.T. -0.01 min

Lab File: VN052437.D

Acq: 21 Nov 2018 14:44

Tgt Ion: 41 Resp: 62

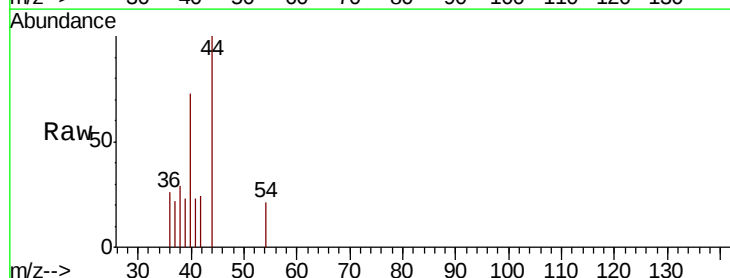
Ion Ratio Lower Upper

41 100

39 224.2 0.0 0.0#

67 0.0 0.0 0.0

52 0.0 0.0 0.0

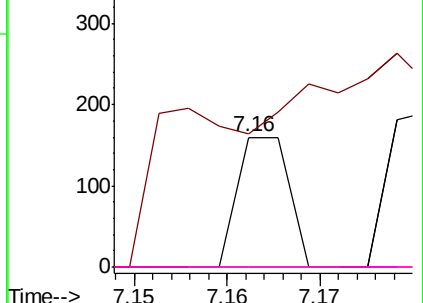
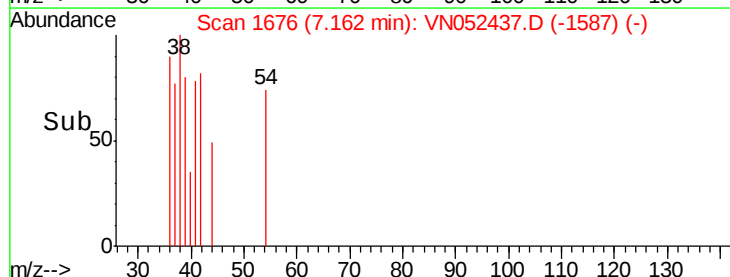


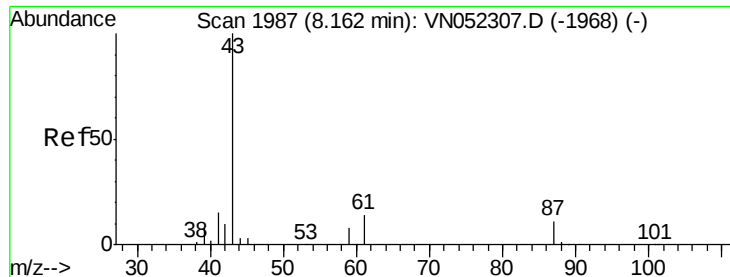
Abundance Ion 41.00 (40.70 to 41.70): VNC

Ion 39.00 (38.70 to 39.70): VNC

Ion 67.00 (66.70 to 67.70): VNC

Ion 52.00 (51.70 to 52.70): VNC





#43

Isopropyl Acetate

Concen: 2.737 ug/l

RT: 8.17 min Scan# 1990

Delta R.T. 0.01 min

Lab File: VN052437.D

Acq: 21 Nov 2018 14:44

Instrument :

MSVOA_N

ClientSampleId :

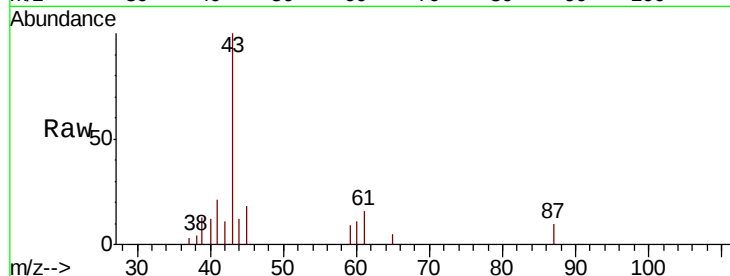
Tot Ion: 43 Resp: 19920

Ion Ratio Lower Upper

43 100

61 13.0 12.0 18.0

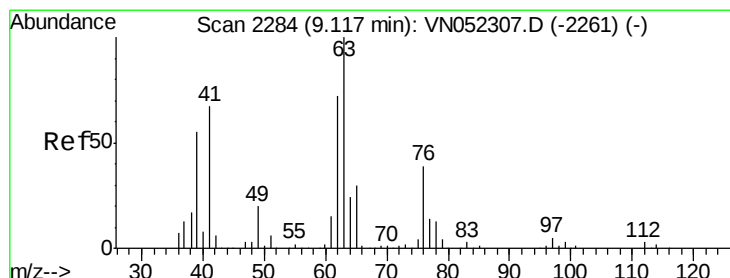
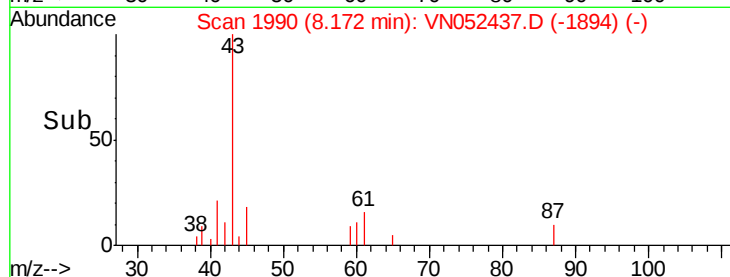
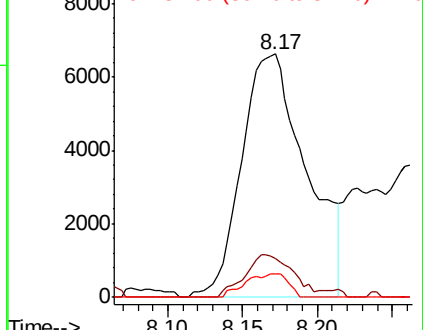
87 6.3 8.3 12.5#



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



#45

1,2-Dichloropropane

Concen: 0.284 ug/l

RT: 9.27 min Scan# 2331

Delta R.T. 0.15 min

Lab File: VN052437.D

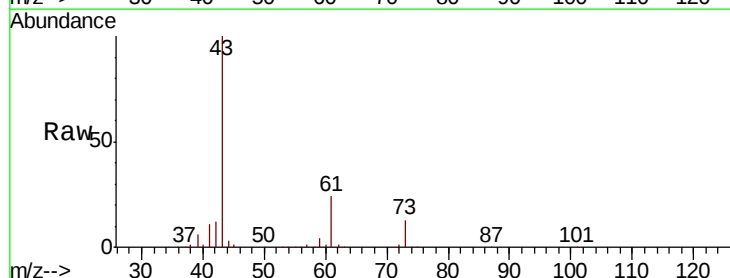
Acq: 21 Nov 2018 14:44

Tgt Ion: 63 Resp: 1198

Ion Ratio Lower Upper

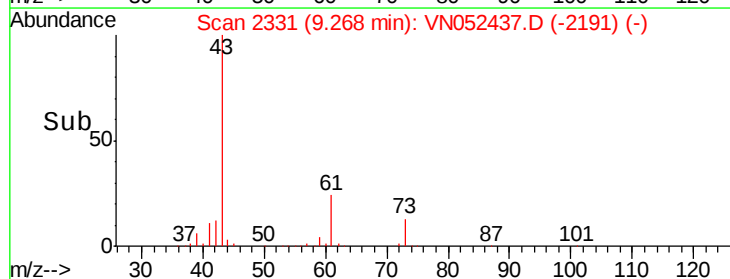
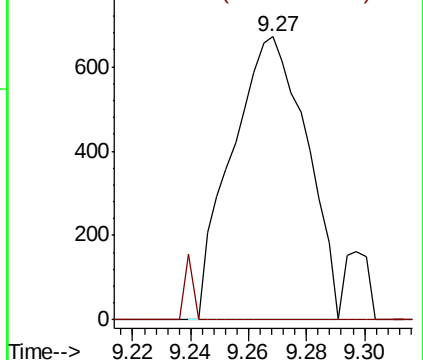
63 100

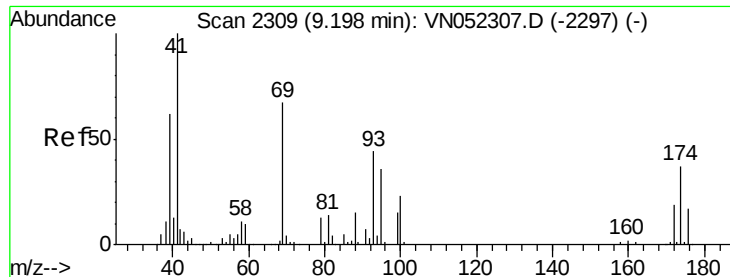
65 0.0 24.2 36.4#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0

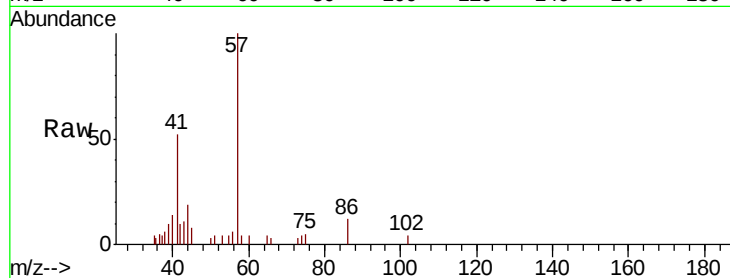




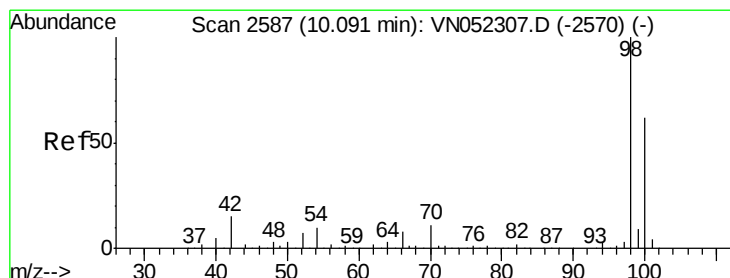
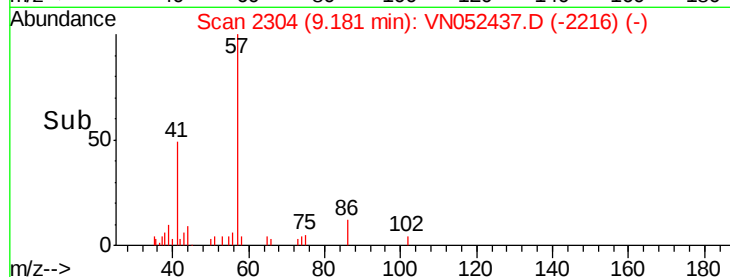
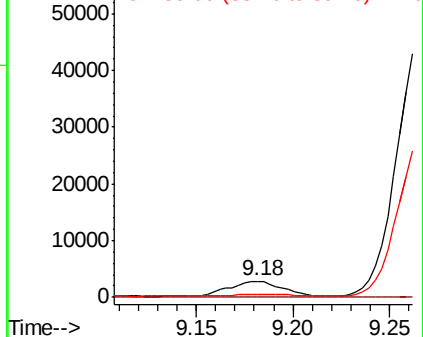
#48
Methvl methacrylate
Concen: 1.328 ug/l
RT: 9.18 min Scan# 2304
Delta R.T. -0.02 min
Lab File: VN052437.D
Acq: 21 Nov 2018 14:44

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 41 Resp: 4903
Ion Ratio Lower Upper
41 100
69 0.0 57.1 85.7#
39 0.0 52.5 78.7#

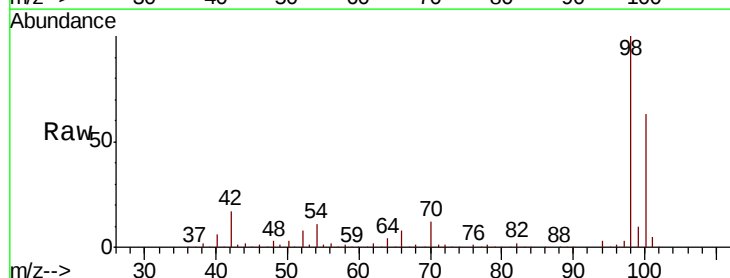


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

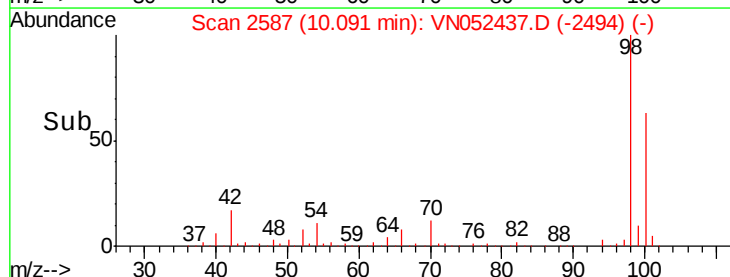
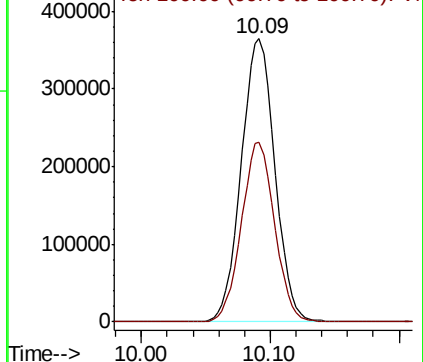


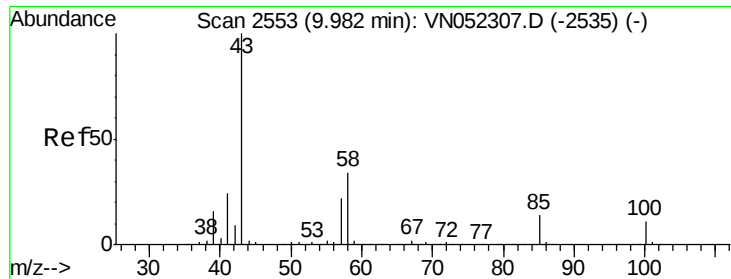
#50
Toluene-d8
Concen: N.D. ug/l
RT: 10.09 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN052437.D
Acq: 21 Nov 2018 14:44

Tgt Ion: 98 Resp: 662784
Ion Ratio Lower Upper
98 100
100 62.6 49.5 74.3



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: 1.472 ug/l

RT: 10.02 min Scan# 2565

Delta R.T. 0.04 min

Lab File: VN052437.D

Acq: 21 Nov 2018 14:44

Instrument :

MSVOA_N

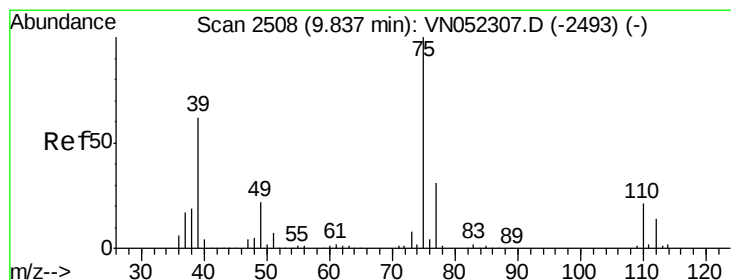
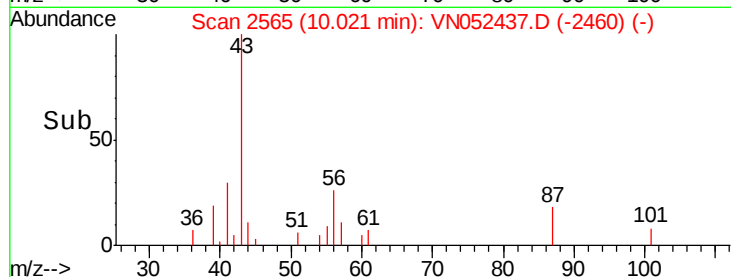
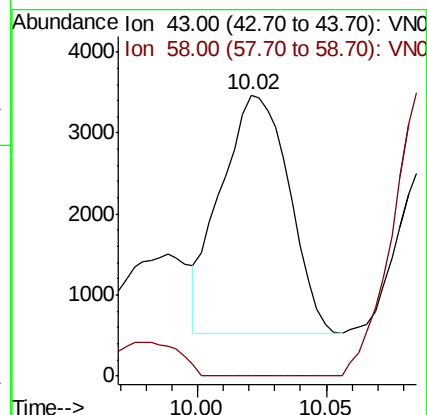
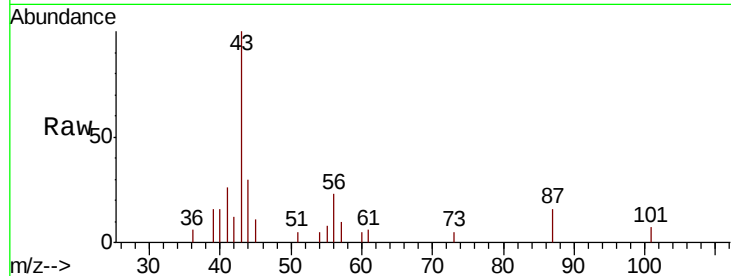
ClientSampleId :

Tot Ion: 43 Resp: 5394

Ion Ratio Lower Upper

43 100

58 0.0 27.0 40.6#



#54

cis-1,3-Dichloropropene

Concen: 5.462 ug/l

RT: 9.90 min Scan# 2529

Delta R.T. 0.07 min

Lab File: VN052437.D

Acq: 21 Nov 2018 14:44

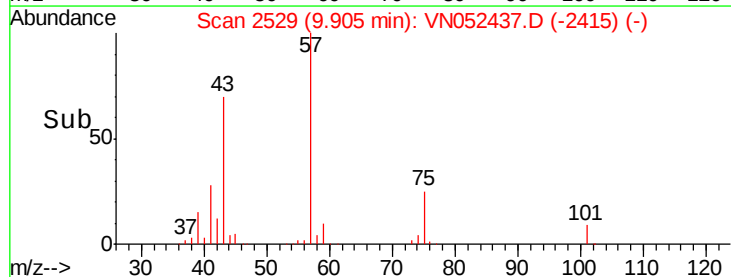
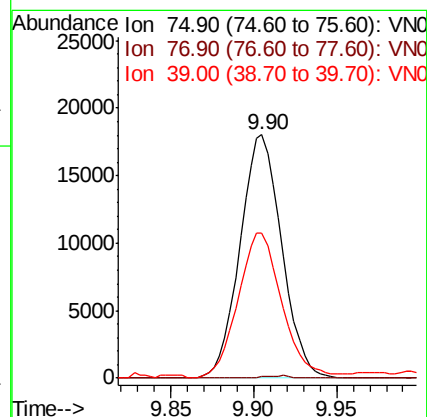
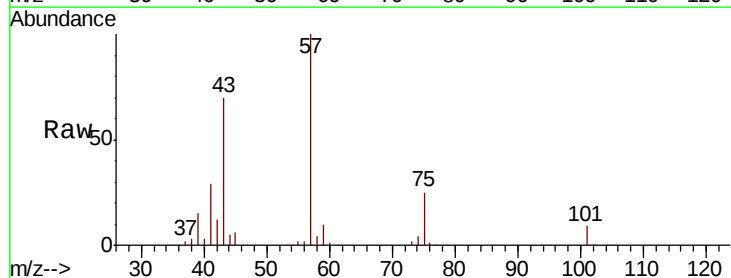
Tgt Ion: 75 Resp: 31432

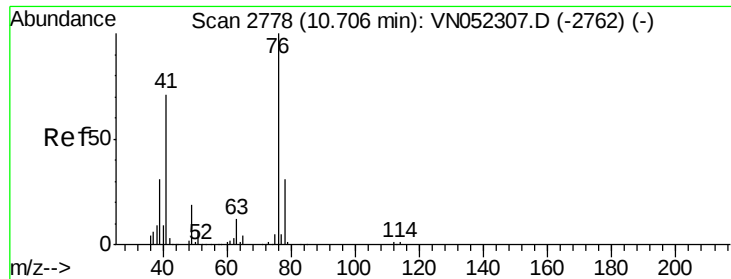
Ion Ratio Lower Upper

75 100

77 0.9 24.6 36.8#

39 59.5 49.9 74.9





#57

1,3-Dichloropropane

Concen: 1.199 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.06 min

Lab File: VN052437.D

Acq: 21 Nov 2018 14:44

Instrument :

MSVOA_N

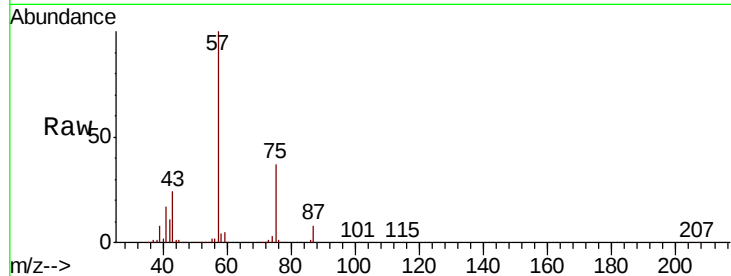
ClientSampleId :

Tot Ion: 76 Resp: 6838

Ion Ratio Lower Upper

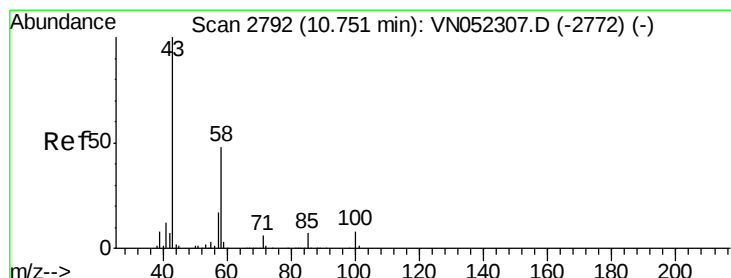
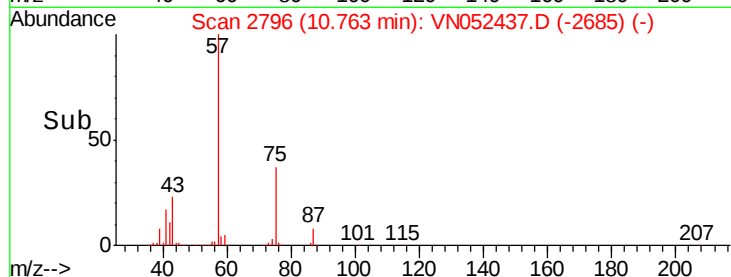
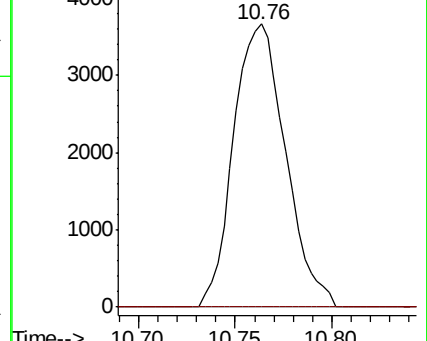
76 100

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: 46.956 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.01 min

Lab File: VN052437.D

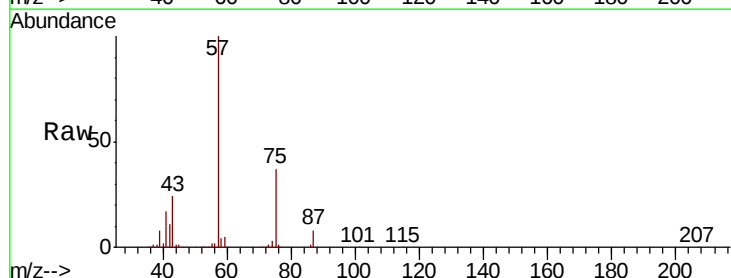
Acq: 21 Nov 2018 14:44

Tgt Ion: 43 Resp: 118320

Ion Ratio Lower Upper

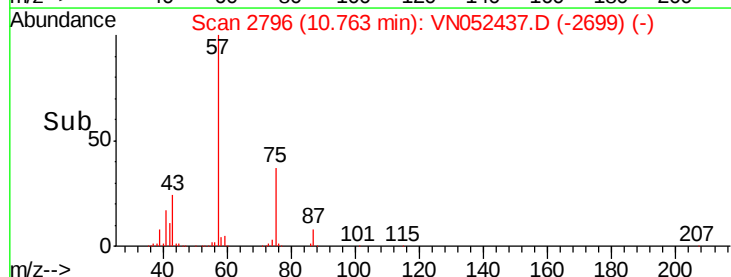
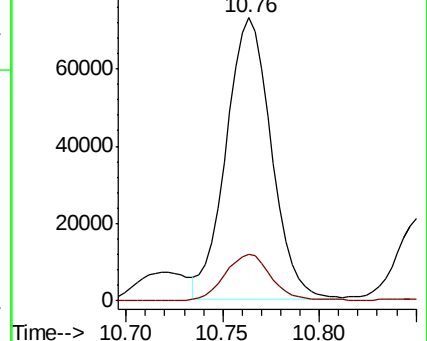
43 100

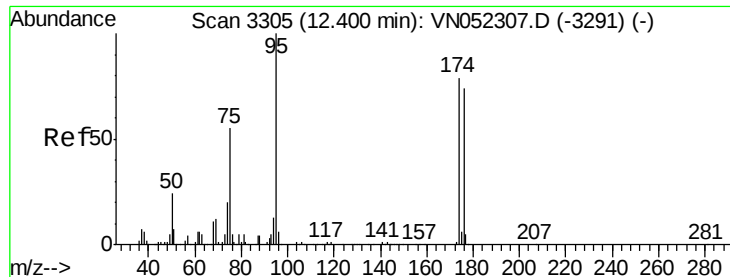
58 17.2 23.5 70.6#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN052437.D

Acq: 21 Nov 2018 14:44

Instrument :

MSVOA_N

ClientSampleId :

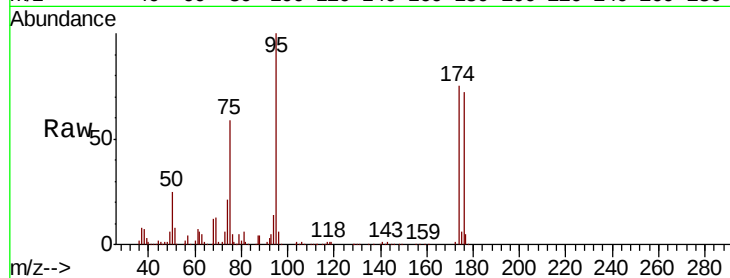
Tot Ion: 95 Resp: 202322

Ion Ratio Lower Upper

95 100

174 75.8 0.0 156.0

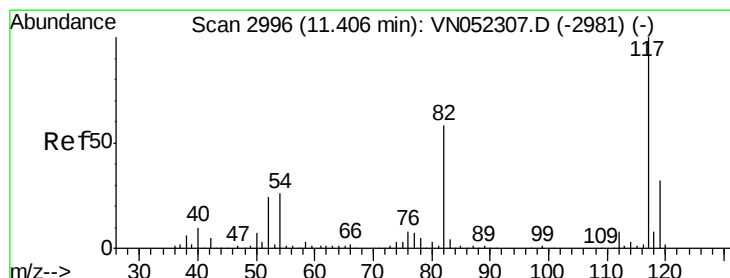
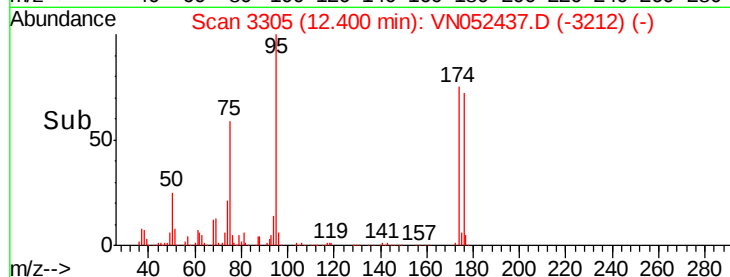
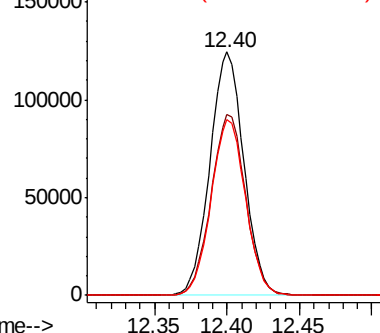
176 73.2 0.0 148.4



Abundance Ion 94.90 (94.60 to 95.60): VN0

Ion 173.80 (173.50 to 174.50): VN0

Ion 175.80 (175.50 to 176.50): VN0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN052437.D

Acq: 21 Nov 2018 14:44

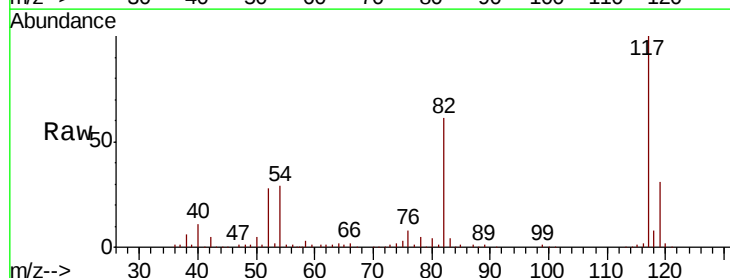
Tgt Ion: 117 Resp: 457925

Ion Ratio Lower Upper

117 100

82 60.8 46.5 69.7

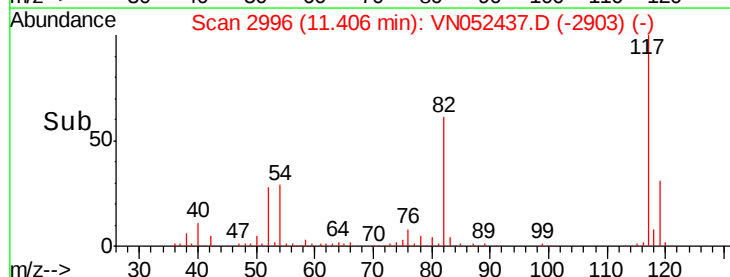
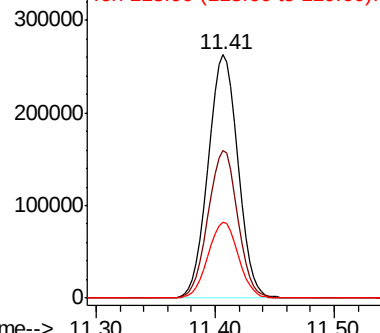
119 31.4 25.7 38.5

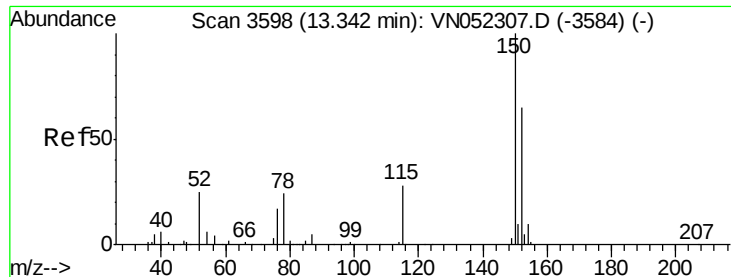


Abundance Ion 116.90 (116.60 to 117.60): VN0

Ion 82.00 (81.70 to 82.70): VN0

Ion 118.90 (118.60 to 119.60): VN0



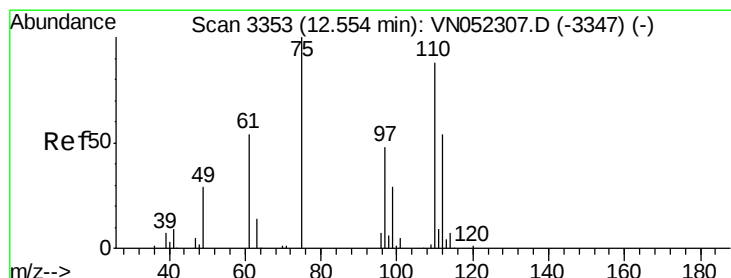
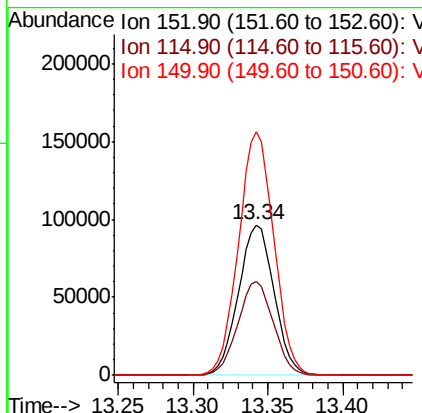
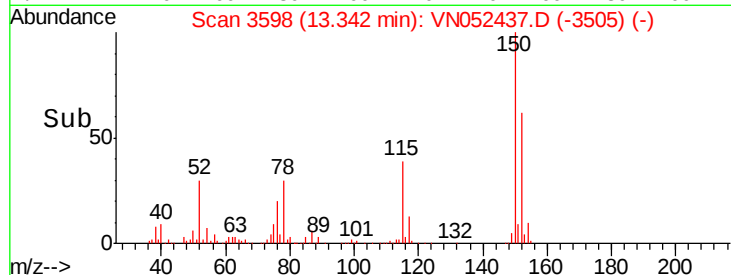
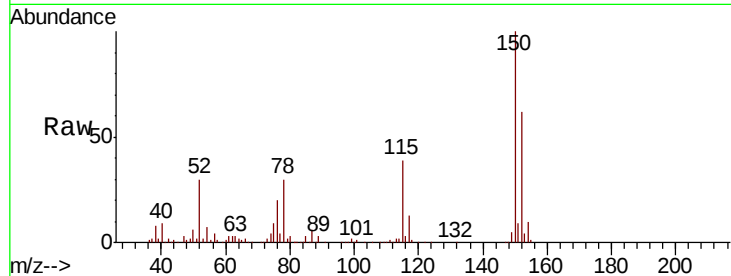


#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3598
Delta R.T. 0.00 min
Lab File: VN052437.D
Acq: 21 Nov 2018 14:44

Instrument :
MSVOA_N
ClientSampleId :

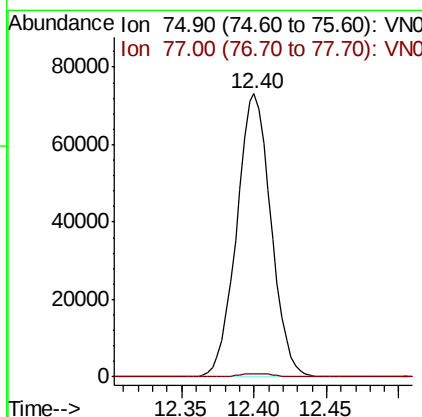
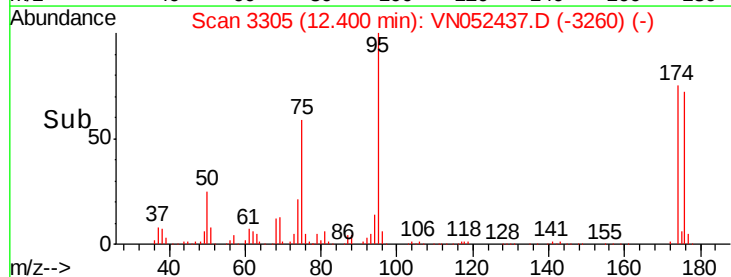
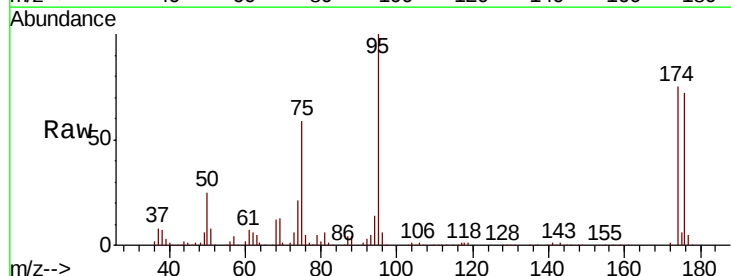
Tot Ion	Ratio	Lower	Upper
152	100		
115	62.4	30.3	91.0
150	160.7	0.0	348.2

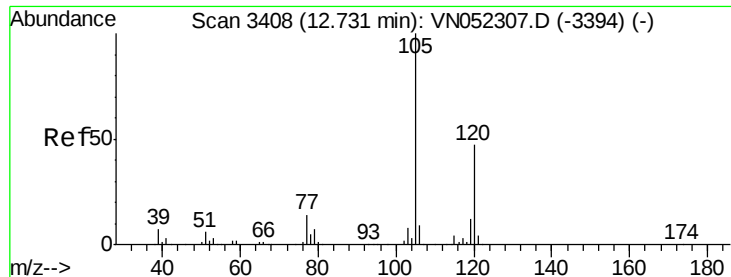


#76

1,2,3-Trichloropropane
Concen: 44.203 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. -0.15 min
Lab File: VN052437.D
Acq: 21 Nov 2018 14:44

Tgt Ion	Ratio	Lower	Upper
75	100		
77	1.2	0.0	0.0#





#80

1,3,5-Trimethylbenzene

Concen: 0.892 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. 0.00 min

Lab File: VN052437.D

Acq: 21 Nov 2018 14:44

Instrument :

MSVOA_N

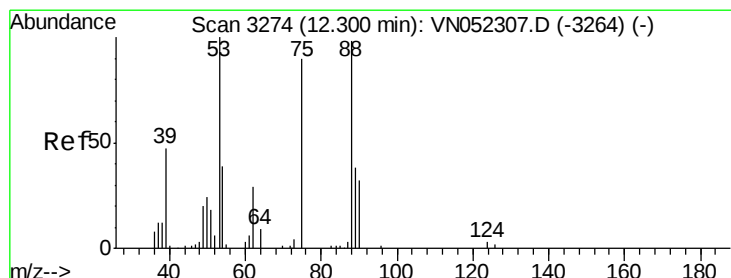
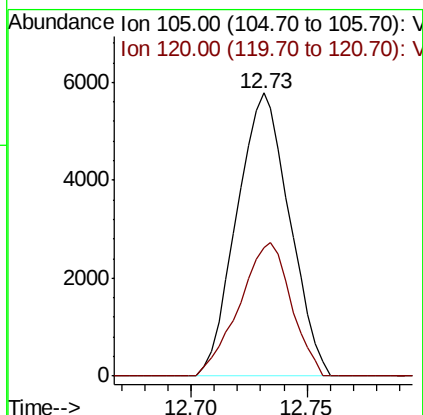
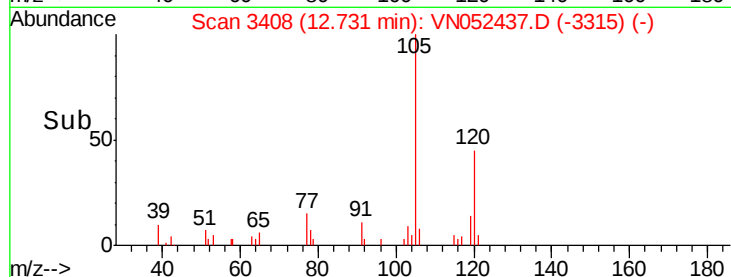
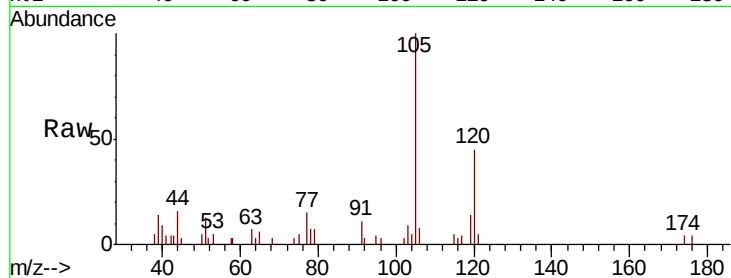
ClientSampleId :

Tot Ion:105 Resp: 9128

Ion Ratio Lower Upper

105 100

120 46.4 23.7 71.1



#81

trans-1,4-Dichloro-2-butene

Concen: 143.366 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN052437.D

Acq: 21 Nov 2018 14:44

Tgt Ion: 75 Resp: 120075

Ion Ratio Lower Upper

75 100

53 0.0 90.2 135.2#

89 0.0 35.4 53.0#

