

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN100418\
 Data File : VN051671.D
 Acq On : 4 Oct 2018 18:19
 Operator : MD\SY
 Sample : PB113487ZHE#03
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 16 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Oct 05 06:45:50 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N100418W.M
 Quant Title : SW846 8260
 QLast Update : Fri Oct 05 02:22:33 2018
 Response via : Initial Calibration

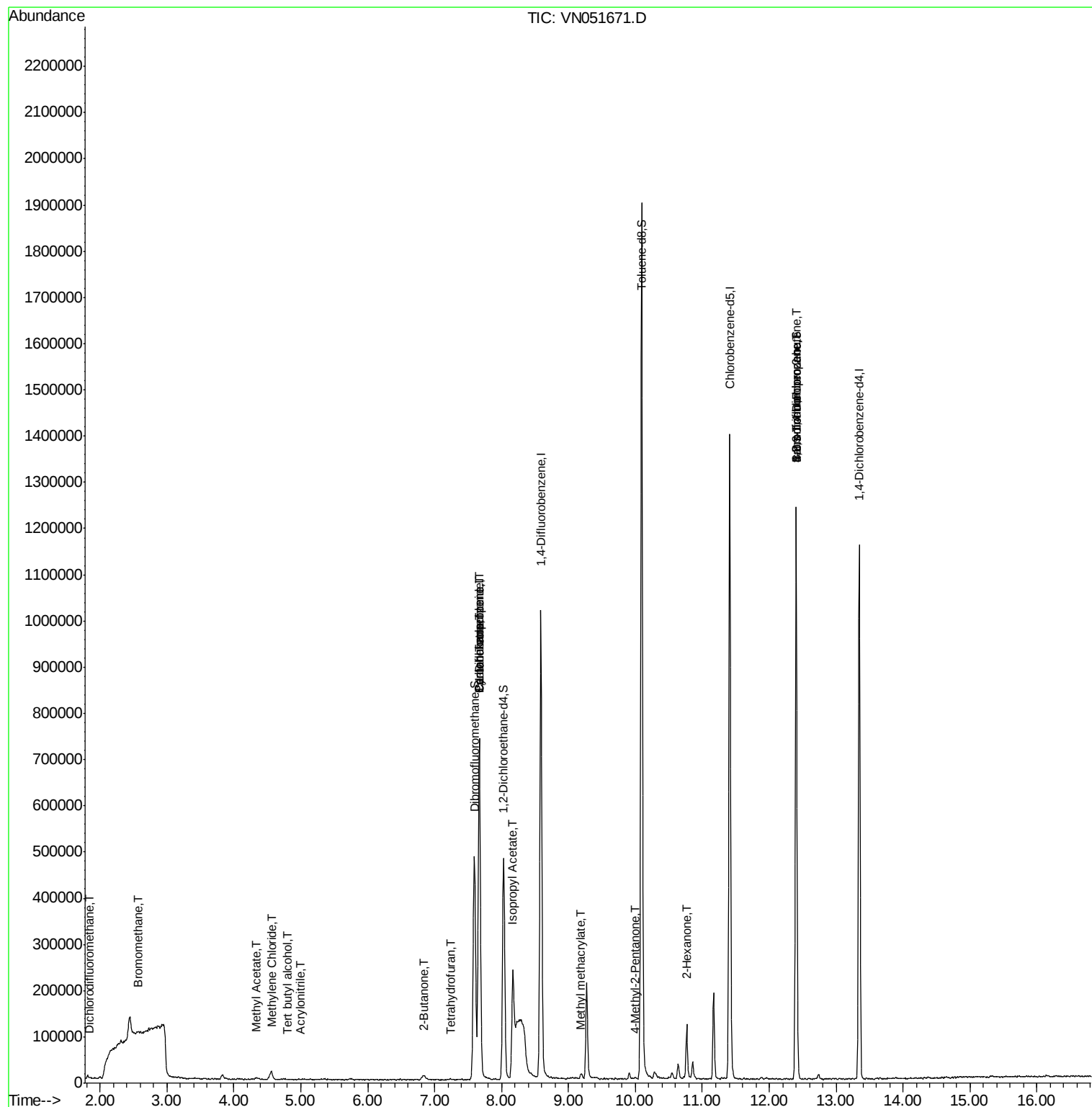
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	639345	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	942127	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	828816	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	318348	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.03	65	400024	47.36	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.72%	
35) Dibromofluoromethane	7.59	113	355935	48.87	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.74%	
50) Toluene-d8	10.09	98	1356487	49.92	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.84%	
62) 4-Bromofluorobenzene	12.40	95	386492	40.18	ug/l	0.00
Spiked Amount	50.000		Recovery	=	80.36%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.85	85	154	1.168	ug/l #	42
5) Bromomethane	2.57	94	2869	0.325	ug/l #	77
7) Trichlorofluoromethane	3.01	101	31	Below Cal	#	18
11) Tert butyl alcohol	4.81	59	129	0.225	ug/l #	1
15) Acrylonitrile	4.99	53	424	0.214	ug/l #	33
16) Acetone	3.83	43	15590	Below Cal		96
18) Methyl Acetate	4.33	43	7947	1.705	ug/l #	66
20) Methylene Chloride	4.56	84	11474	1.651	ug/l	92
25) 2-Butanone	6.84	43	726	0.298	ug/l	96
29) Tetrahydrofuran	7.23	42	1611	1.076	ug/l #	57
31) Cyclohexane	7.67	56	13156	1.147	ug/l #	39
36) 1,1-Dichloropropene	7.67	75	44606	4.530	ug/l #	49
38) Carbon Tetrachloride	7.67	117	58768	4.973	ug/l #	16
41) Methacrylonitrile	7.18	41	225	Below Cal	#	74
43) Isopropyl Acetate	8.17	43	320505	29.931	ug/l #	93
48) Methyl methacrylate	9.18	41	5281	1.079	ug/l #	14
51) 4-Methyl-2-Pentanone	9.99	43	1672	0.308	ug/l	87
59) 2-Hexanone	10.77	43	17879	4.852	ug/l #	51
71) Bromoform	12.40	173	3452	0.565	ug/l #	1
74) N-amyl acetate	12.06	43	455	Below Cal	#	24
75) 1,1,2,2-Tetrachloroethane	12.50	83	108	Below Cal	#	54
76) 1,2,3-Trichloropropane	12.40	75	207729	52.740	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	207729	119.946	ug/l #	14

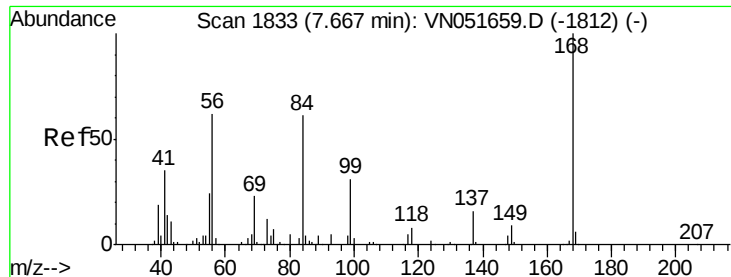
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Fri Oct 05 02:22:33 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1834

Delta R.T. 0.00 min

Lab File: VN051671.D

Acq: 4 Oct 2018 18:19

Instrument :

MSVOA_N

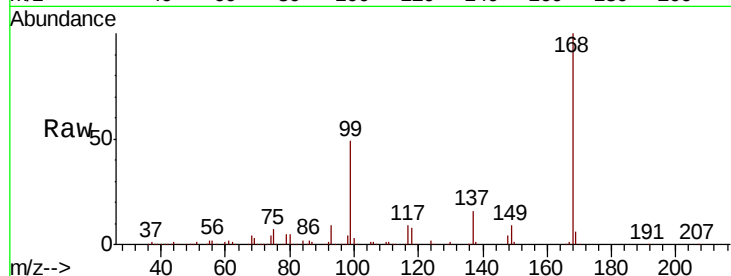
ClientSampled :

Tot Ion:168 Resp: 639345

Ion Ratio Lower Upper

168 100

99 48.7 40.4 60.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.67

250000

200000

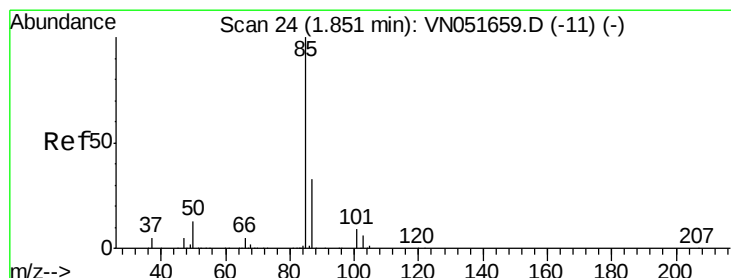
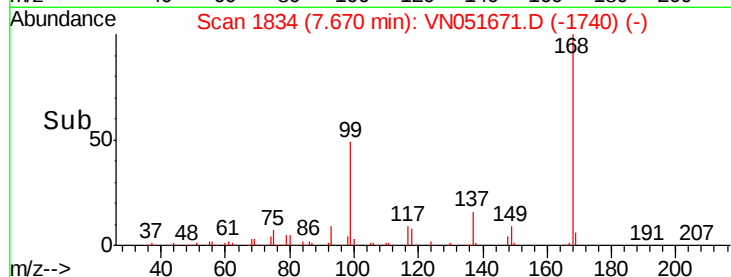
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 1.168 ug/l

RT: 1.85 min Scan# 23

Delta R.T. -0.00 min

Lab File: VN051671.D

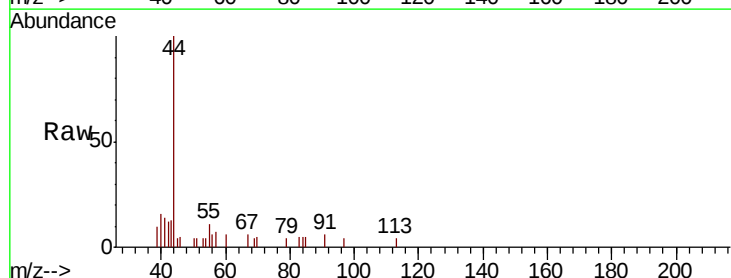
Acq: 4 Oct 2018 18:19

Tgt Ion: 85 Resp: 154

Ion Ratio Lower Upper

85 100

87 0.0 16.4 49.4#



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO

1.85

250

200

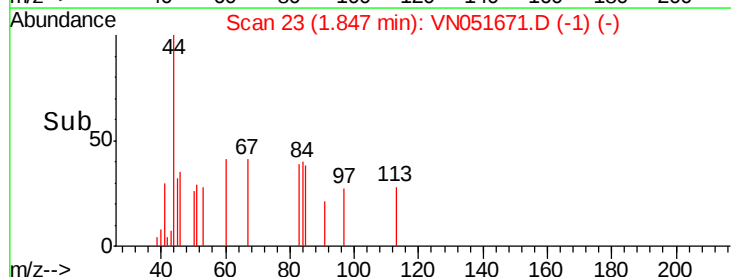
150

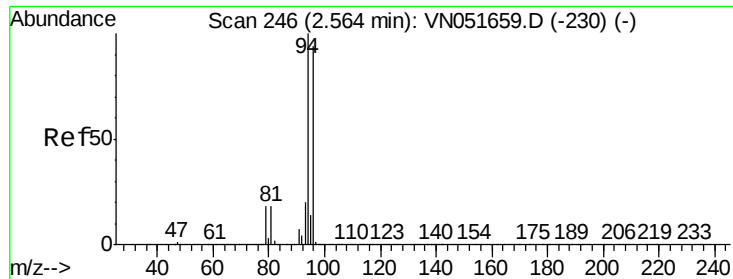
100

50

0

Time-->





#5

Bromomethane

Concen: 0.325 ug/l

RT: 2.57 min Scan# 248

Delta R.T. 0.01 min

Lab File: VN051671.D

Acq: 4 Oct 2018 18:19

Instrument :

MSVOA_N

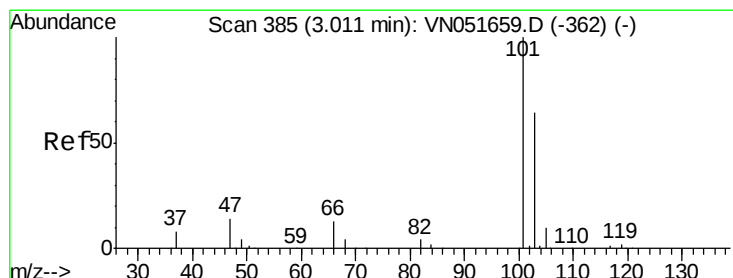
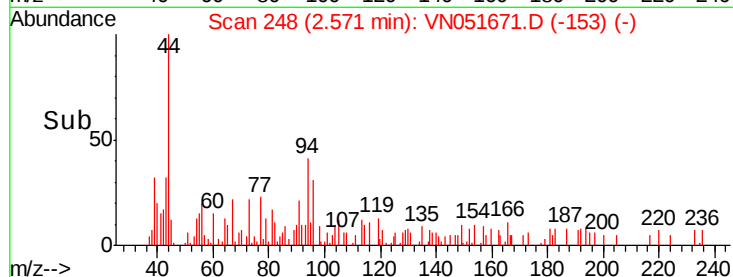
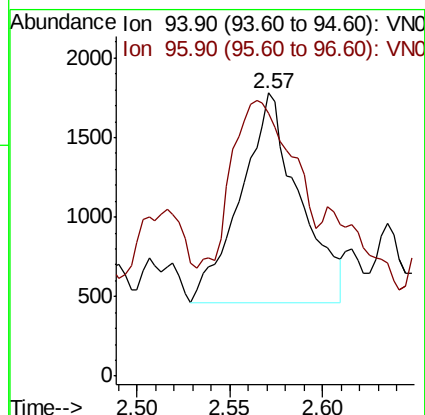
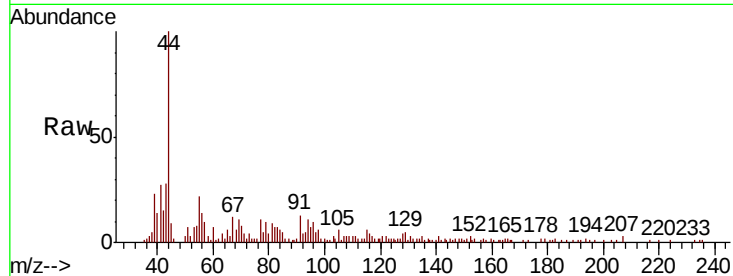
ClientSampled :

Tot Ion: 94 Resp: 2869

Ion Ratio Lower Upper

94 100

96 71.7 75.2 112.8#



#7

Trichlorofluoromethane

Concen: Below Cal

RT: 3.01 min Scan# 386

Delta R.T. 0.00 min

Lab File: VN051671.D

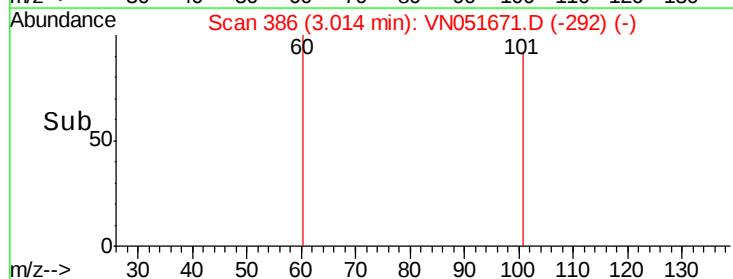
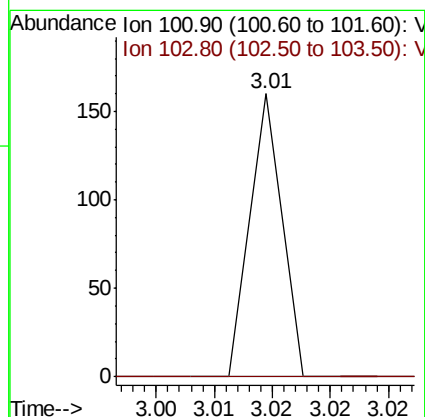
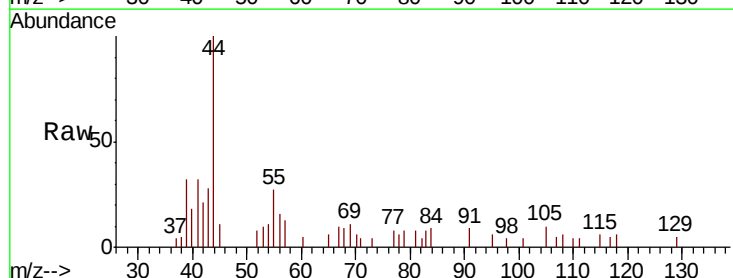
Acq: 4 Oct 2018 18:19

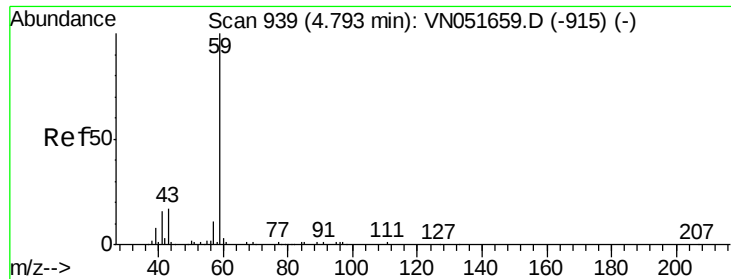
Tgt Ion: 101 Resp: 31

Ion Ratio Lower Upper

101 100

103 0.0 51.1 76.7#

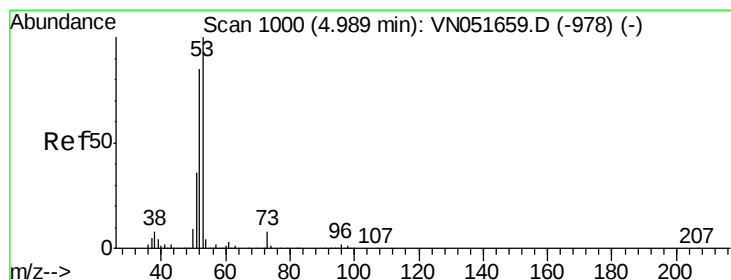
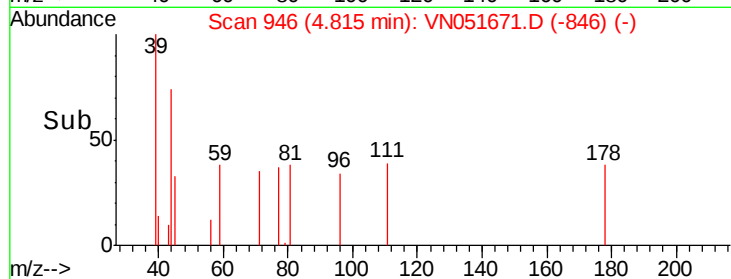
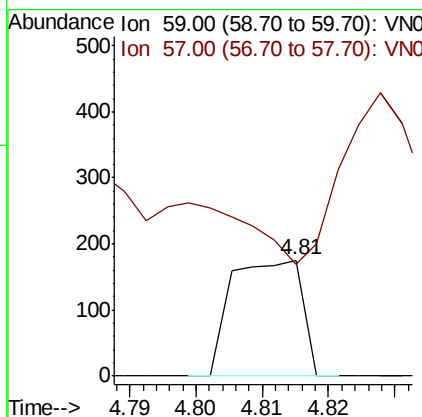
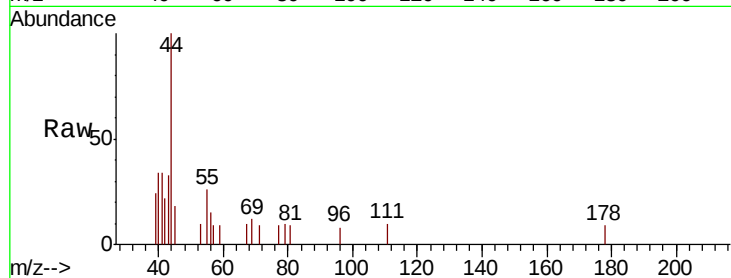




#11
Tert butyl alcohol
Concen: 0.225 ug/l
RT: 4.81 min Scan# 946
Delta R.T. 0.02 min
Lab File: VN051671.D
Acq: 4 Oct 2018 18:19

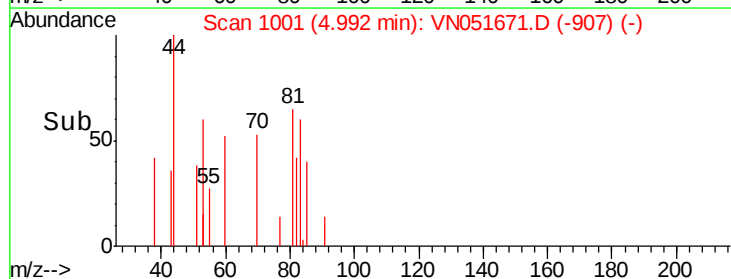
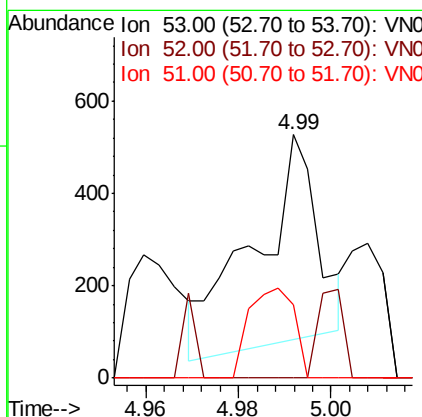
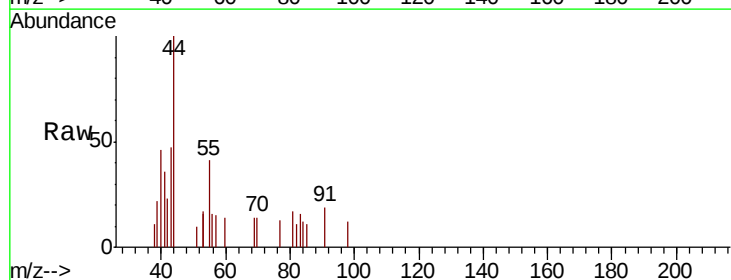
Instrument :
MSVOA_N
ClientSampled :

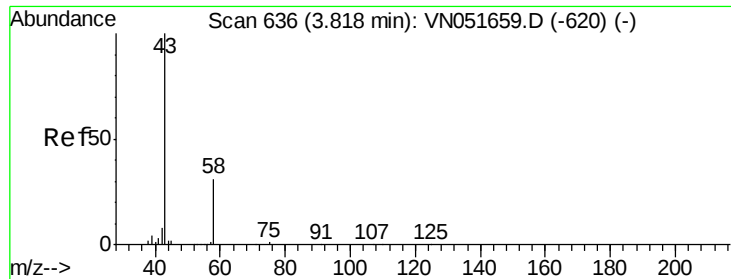
Tot Ion: 59 Resp: 129
Ion Ratio Lower Upper
59 100
57 200.8 8.1 12.1#



#15
Acrylonitrile
Concen: 0.214 ug/l
RT: 4.99 min Scan# 1001
Delta R.T. 0.00 min
Lab File: VN051671.D
Acq: 4 Oct 2018 18:19

Tgt Ion: 53 Resp: 424
Ion Ratio Lower Upper
53 100
52 0.0 66.2 99.2#
51 31.1 30.3 45.5

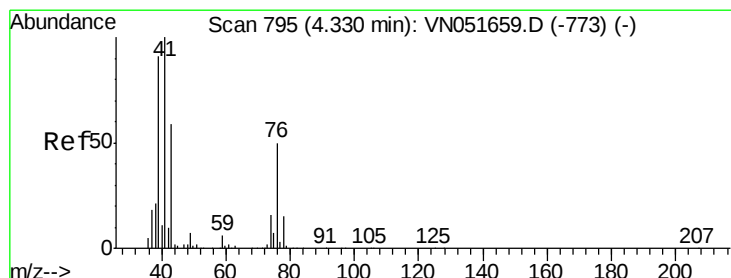
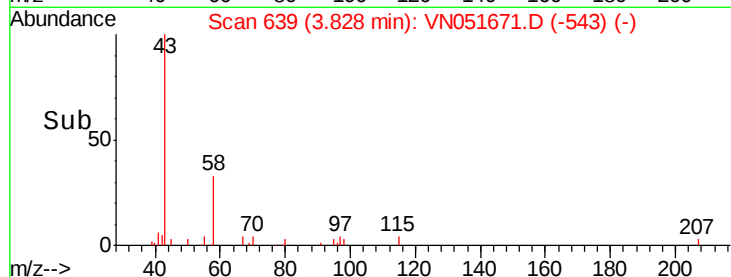
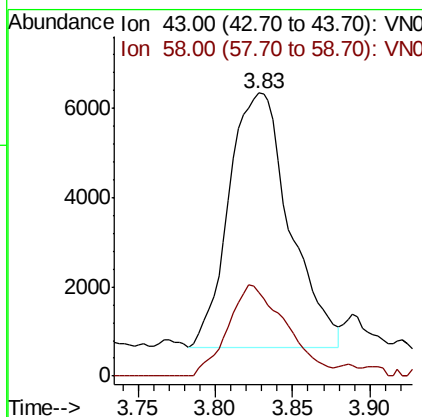
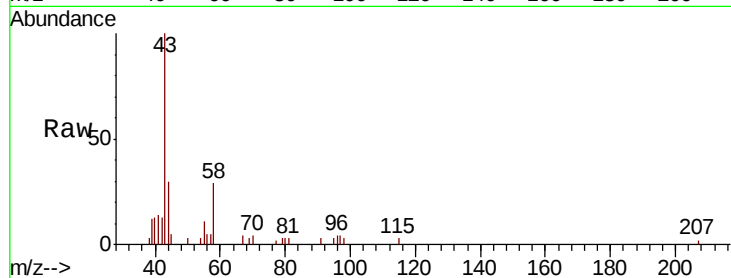




#16
Acetone
Concen: Below Cal
RT: 3.83 min Scan# 639
Delta R.T. 0.01 min
Lab File: VN051671.D
Acq: 4 Oct 2018 18:19

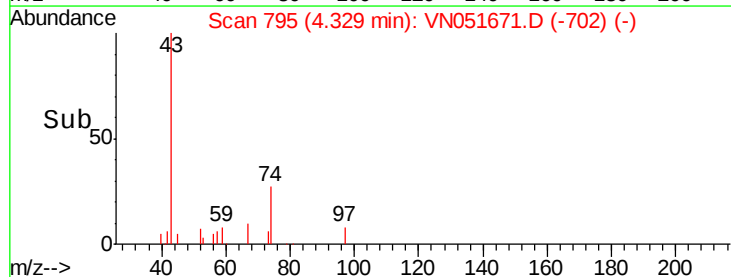
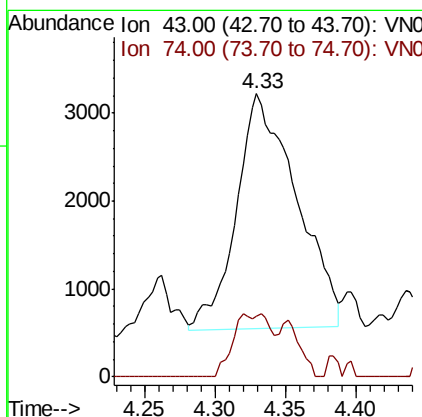
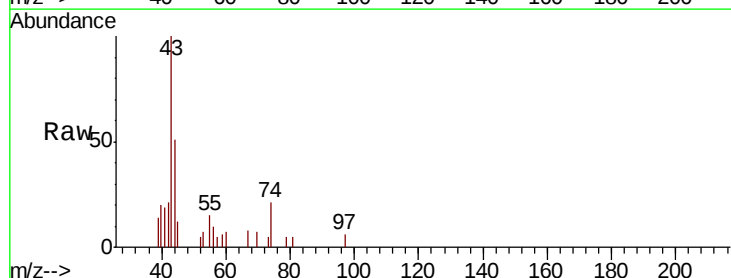
Instrument :
MSVOA_N
ClientSampled :

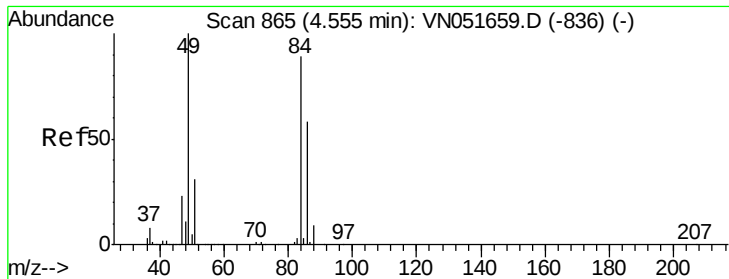
Tot Ion: 43 Resp: 15590
Ion Ratio Lower Upper
43 100
58 32.7 24.3 36.5



#18
Methyl Acetate
Concen: 1.705 ug/l
RT: 4.33 min Scan# 795
Delta R.T. -0.00 min
Lab File: VN051671.D
Acq: 4 Oct 2018 18:19

Tgt Ion: 43 Resp: 7947
Ion Ratio Lower Upper
43 100
74 9.2 21.5 32.3#

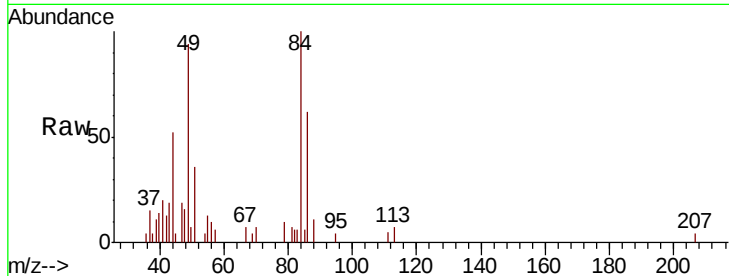




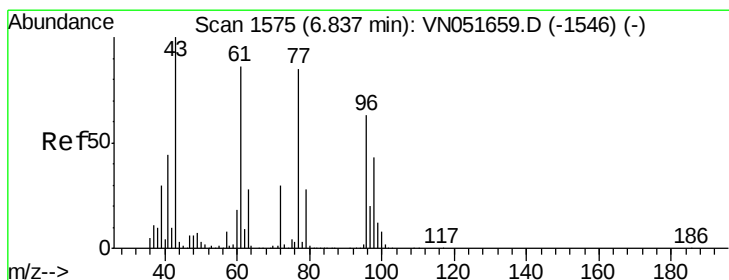
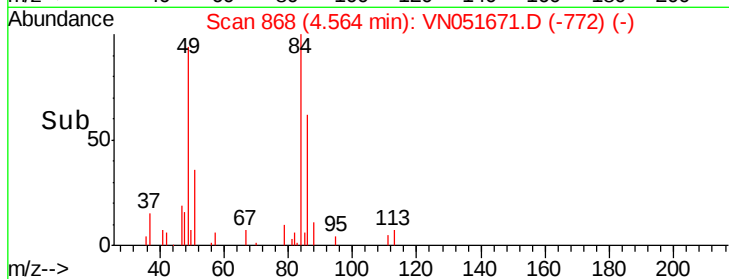
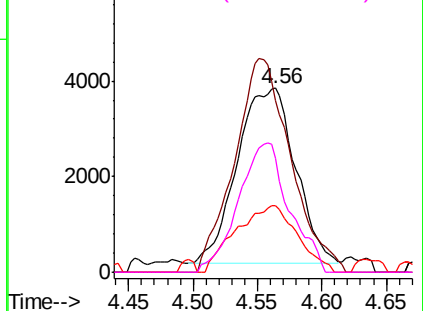
#20
Methvlene Chloride
Concen: 1.651 ug/l
RT: 4.56 min Scan# 868
Delta R.T. 0.01 min
Lab File: VN051671.D
Acq: 4 Oct 2018 18:19

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:	84	Resp:	11474
Ion	Ratio	Lower	Upper
84	100		
49	98.3	89.5	134.3
51	38.0	27.4	41.0
86	65.1	51.9	77.9

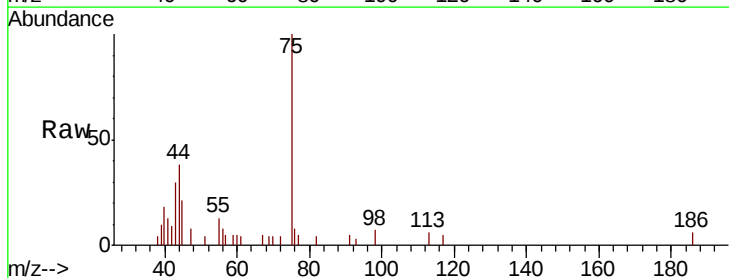


Abundance Ion 83.90 (83.60 to 84.60): VN0
Ion 48.90 (48.60 to 49.60): VN0
Ion 50.90 (50.60 to 51.60): VN0
Ion 85.90 (85.60 to 86.60): VN0

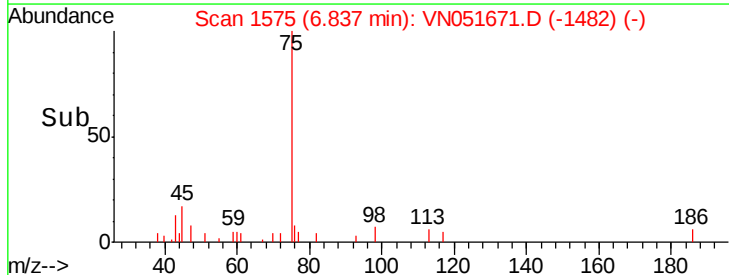
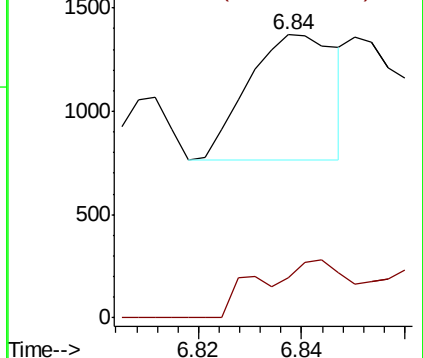


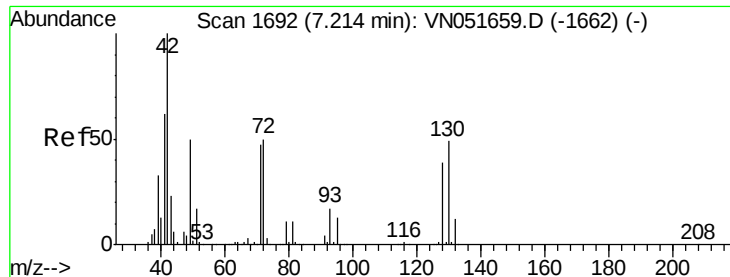
#25
2-Butanone
Concen: 0.298 ug/l
RT: 6.84 min Scan# 1575
Delta R.T. -0.00 min
Lab File: VN051671.D
Acq: 4 Oct 2018 18:19

Tgt Ion:	43	Resp:	726
Ion	Ratio	Lower	Upper
43	100		
72	32.4	24.2	36.2



Abundance Ion 43.00 (42.70 to 43.70): VN0
Ion 72.00 (71.70 to 72.70): VN0





#29

Tetrahydrofuran

Concen: 1.076 ug/l

RT: 7.23 min Scan# 1698

Delta R.T. 0.02 min

Lab File: VN051671.D

Acq: 4 Oct 2018 18:19

Instrument :

MSVOA_N

ClientSampleId :

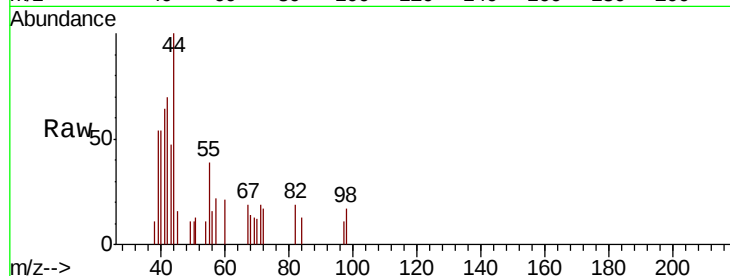
Tot Ion: 42 Resp: 1611

Ion Ratio Lower Upper

42 100

72 27.7 40.1 60.1#

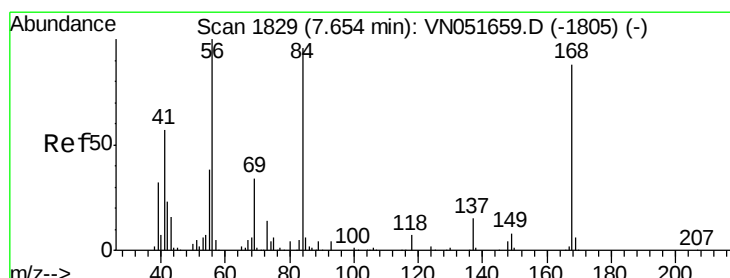
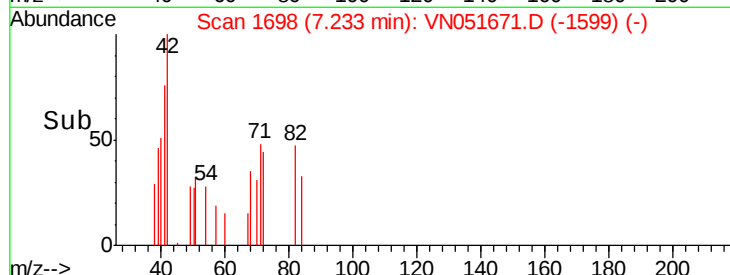
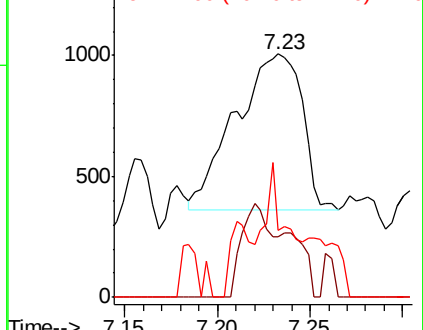
71 11.9 38.0 57.0#



Abundance Ion 42.00 (41.70 to 42.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

Ion 71.00 (70.70 to 71.70): VN0



#31

Cyclohexane

Concen: 1.147 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.01 min

Lab File: VN051671.D

Acq: 4 Oct 2018 18:19

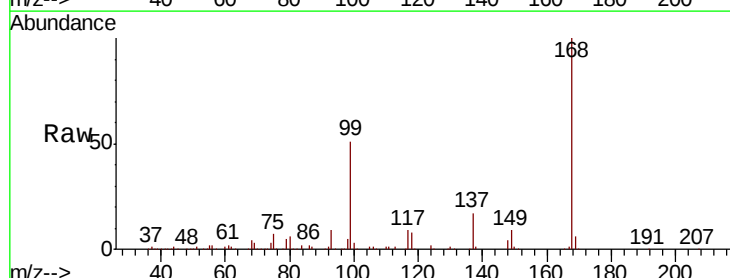
Tgt Ion: 56 Resp: 13156

Ion Ratio Lower Upper

56 100

69 136.2 27.5 41.3#

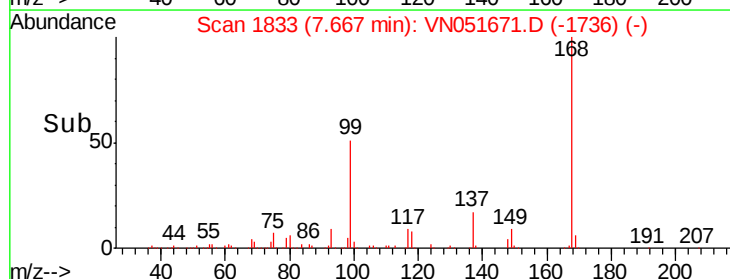
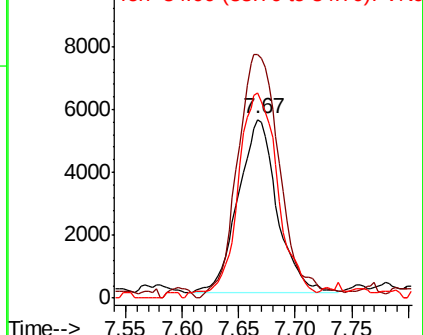
84 115.0 76.7 115.1

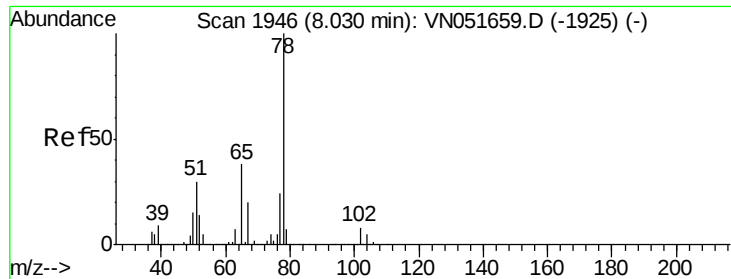


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0

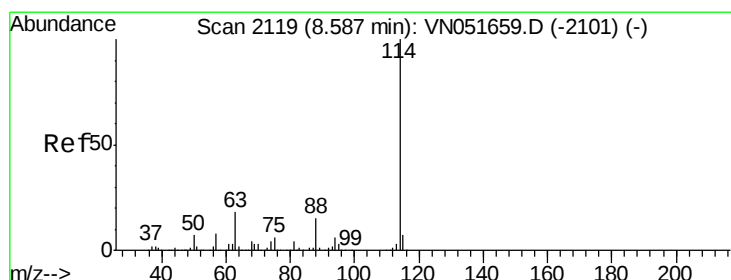
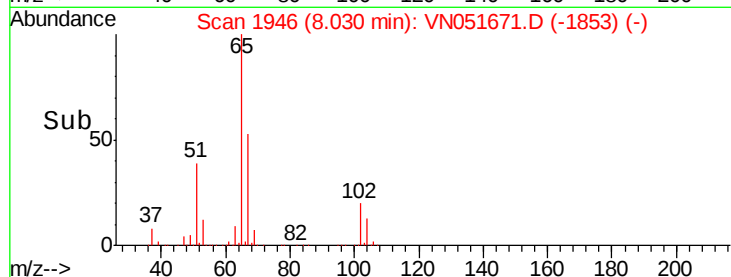
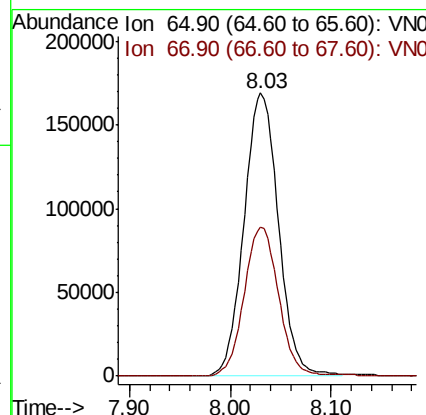
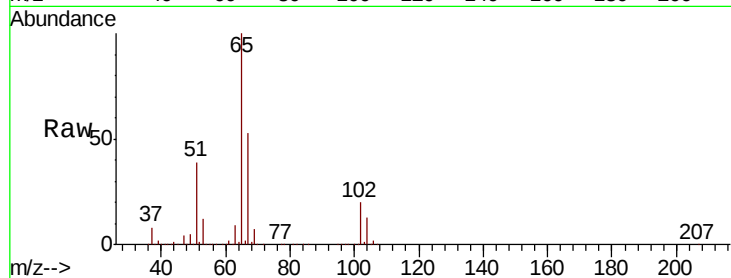




#33
 1,2-Dichloroethane-d4
 Concen: Below ug/l
 RT: 8.03 min Scan# 1946
 Delta R.T. -0.00 min
 Lab File: VN051671.D
 Acq: 4 Oct 2018 18:19

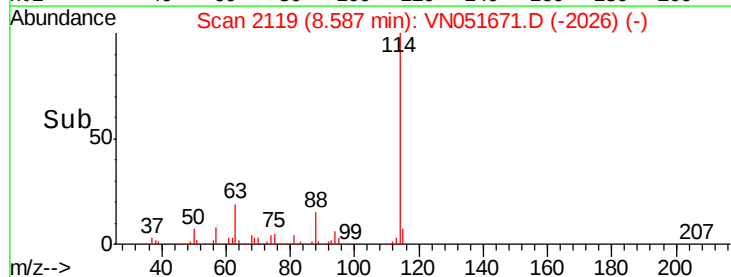
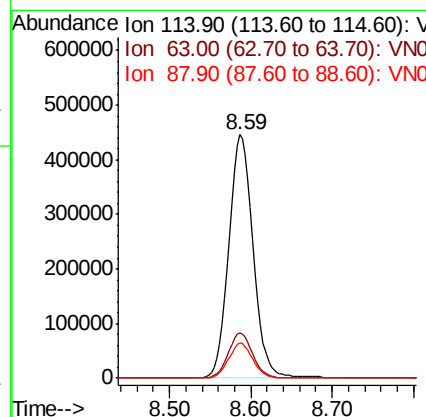
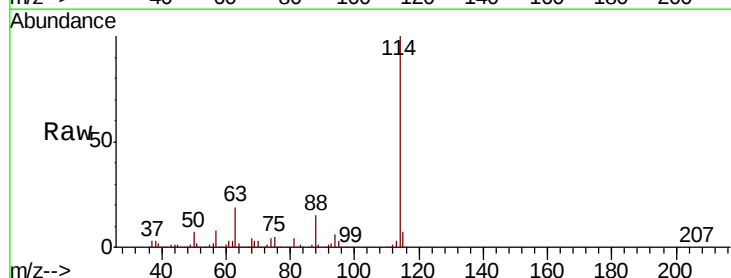
Instrument :
 MSVOA_N
 ClientSampleId :

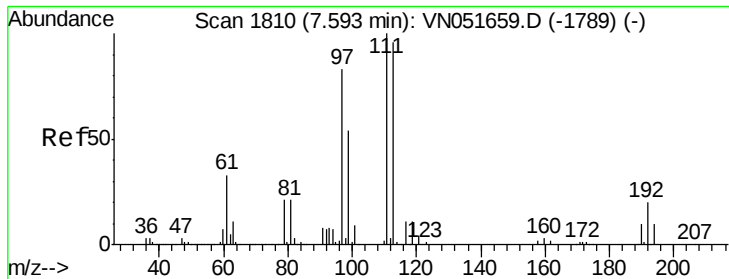
Tot Ion: 65 Resp: 400024
 Ion Ratio Lower Upper
 65 100
 67 52.3 0.0 103.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. -0.00 min
 Lab File: VN051671.D
 Acq: 4 Oct 2018 18:19

Tgt Ion: 114 Resp: 942127
 Ion Ratio Lower Upper
 114 100
 63 18.5 0.0 36.2
 88 14.6 0.0 30.2

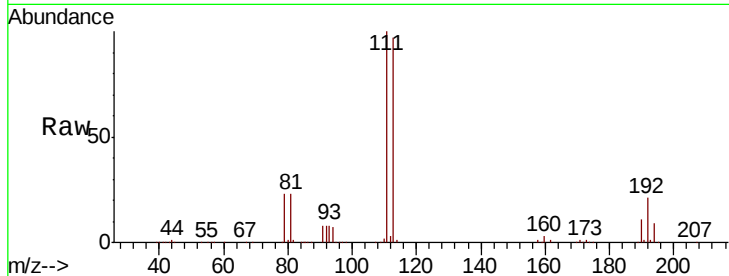




#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. -0.00 min
 Lab File: VN051671.D
 Acq: 4 Oct 2018 18:19

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
113	100		
111	103.4	81.8	122.8
192	20.9	16.5	24.7

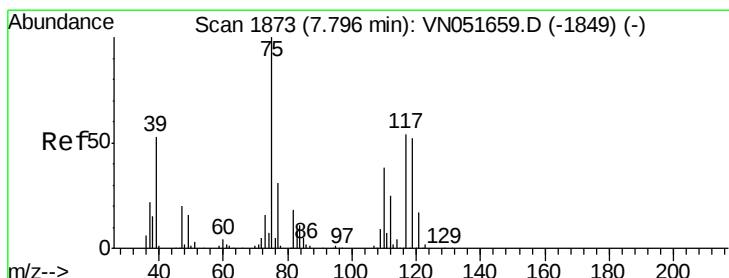
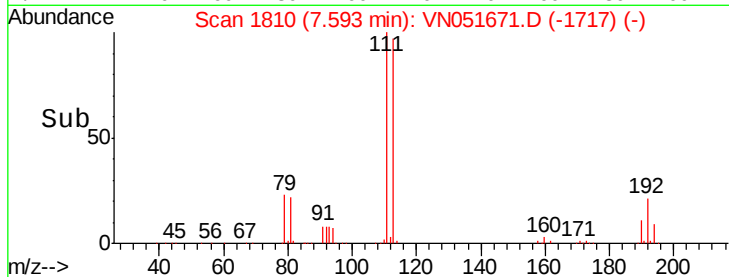
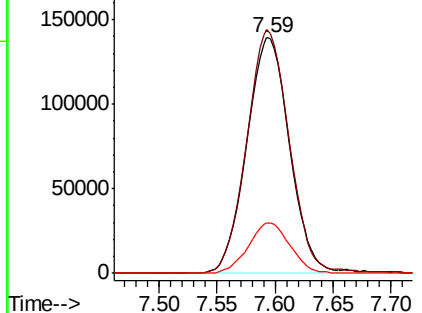


Abundance

Ion 112.80 (112.50 to 113.50): V

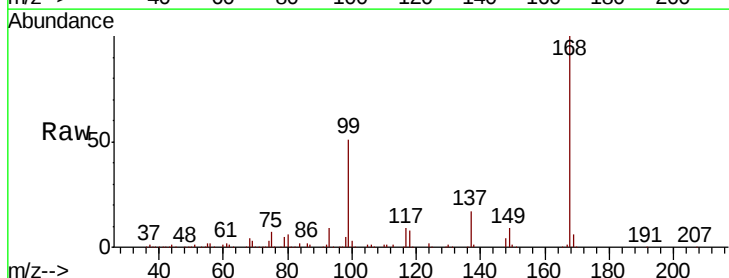
Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36
 1,1-Dichloropropene
 Concen: 4.530 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.13 min
 Lab File: VN051671.D
 Acq: 4 Oct 2018 18:19

Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.9	19.3	57.8#
77	0.5	24.7	37.1#

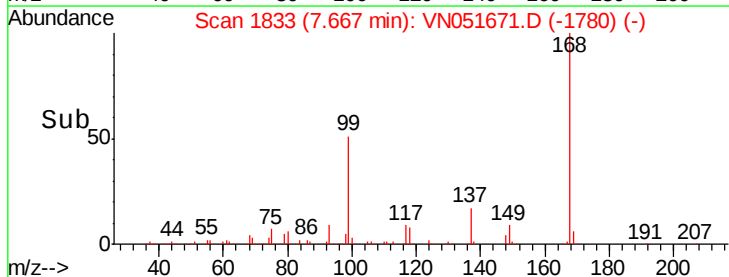
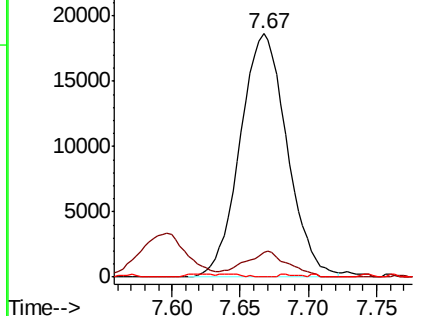


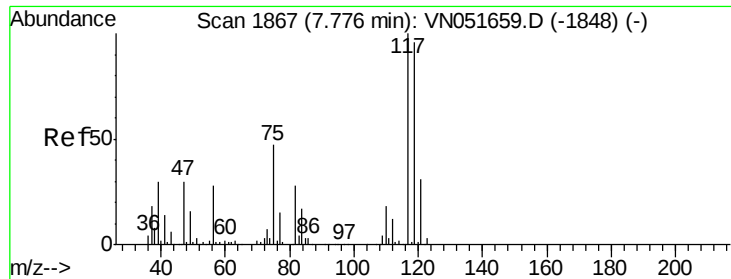
Abundance

Ion 74.90 (74.60 to 75.60): VNO

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VNO

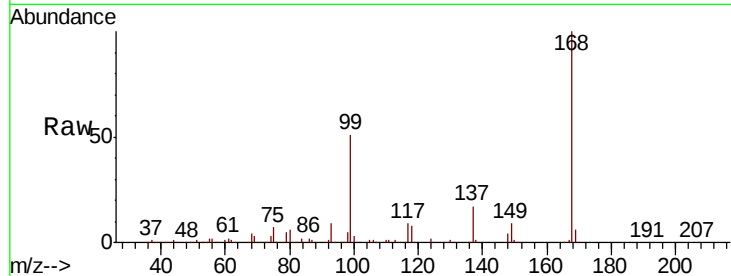




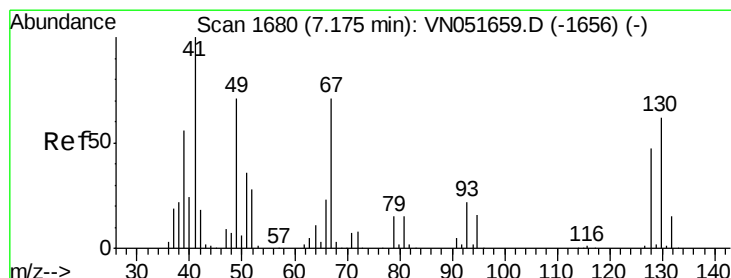
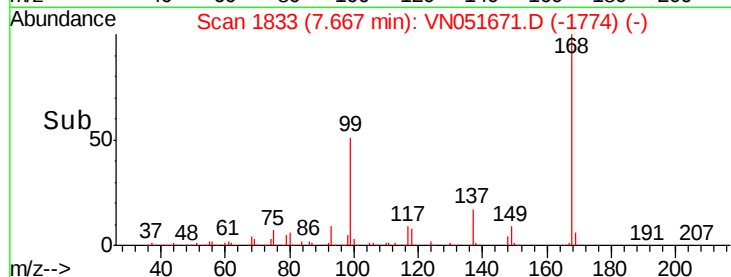
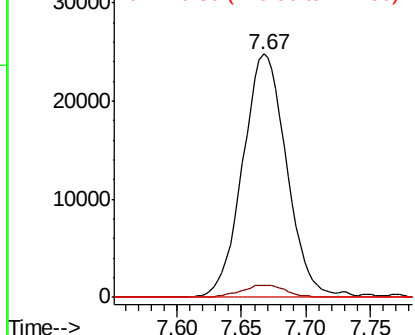
#38
Carbon Tetrachloride
Concen: 4.973 ug/l
RT: 7.67 min Scan# 1833
Delta R.T. -0.11 min
Lab File: VN051671.D
Acq: 4 Oct 2018 18:19

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:117 Resp: 58768
Ion Ratio Lower Upper
117 100
119 4.9 77.0 115.6#
121 0.0 25.0 37.6#

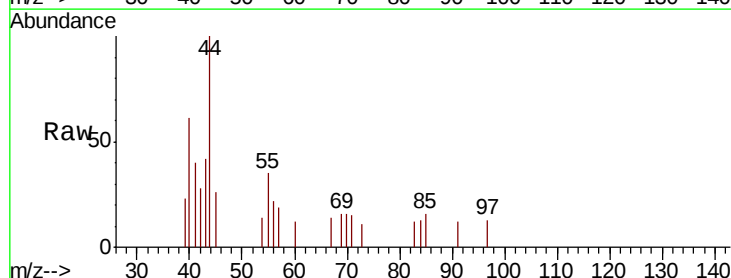


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

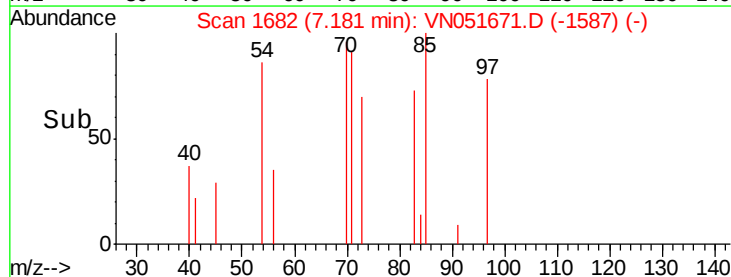
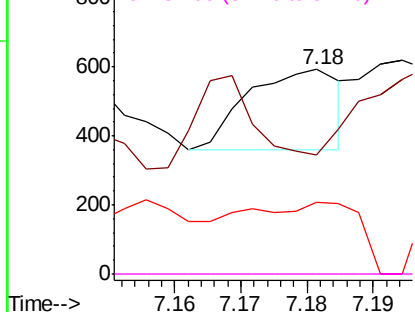


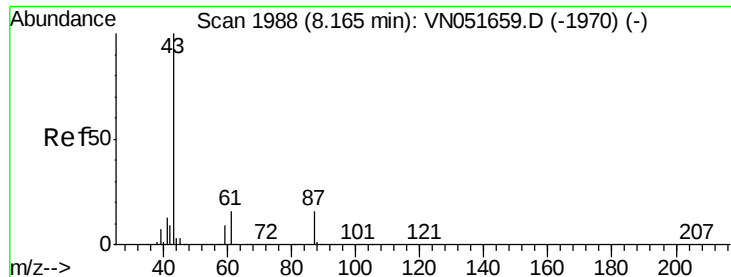
#41
Methacrylonitrile
Concen: Below Cal
RT: 7.18 min Scan# 1682
Delta R.T. 0.01 min
Lab File: VN051671.D
Acq: 4 Oct 2018 18:19

Tgt Ion: 41 Resp: 225
Ion Ratio Lower Upper
41 100
39 80.9 53.9 80.9#
67 112.9 78.1 117.1
52 0.0 32.3 48.5#



Abundance Ion 41.00 (40.70 to 41.70): VNO
Ion 39.00 (38.70 to 39.70): VNO
Ion 67.00 (66.70 to 67.70): VNO
Ion 52.00 (51.70 to 52.70): VNO

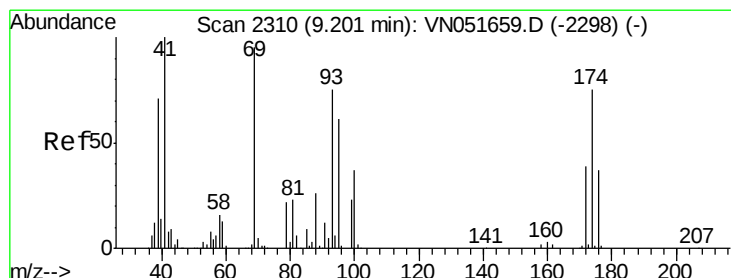
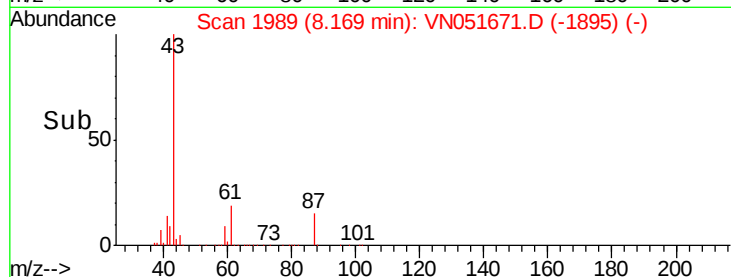
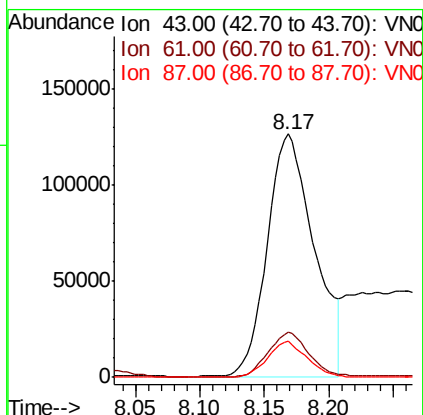
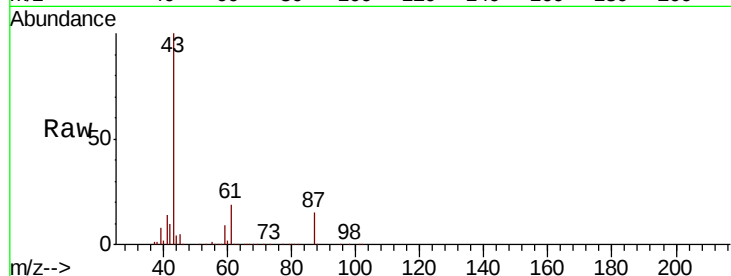




#43
Isopropyl Acetate
Concen: 29.931 ug/l
RT: 8.17 min Scan# 1989
Delta R.T. 0.00 min
Lab File: VN051671.D
Acq: 4 Oct 2018 18:19

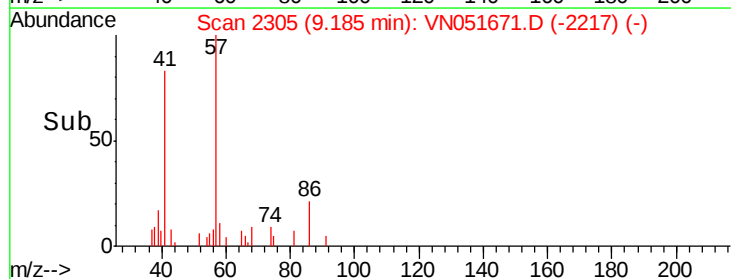
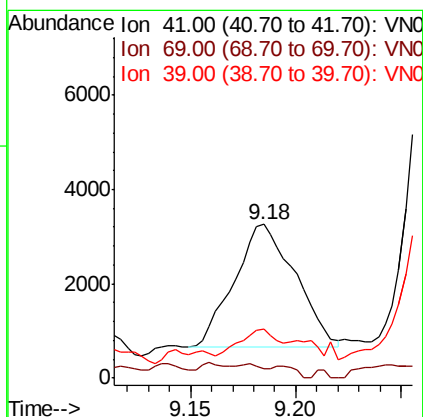
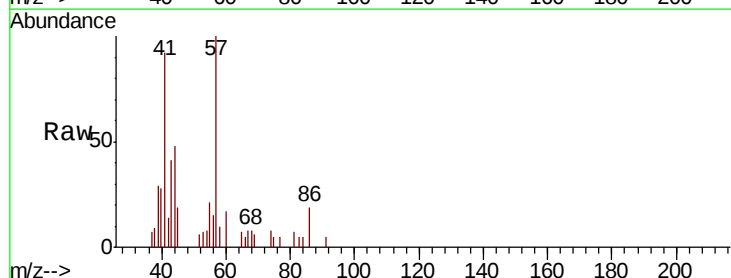
Instrument :
MSVOA_N
ClientSampled :

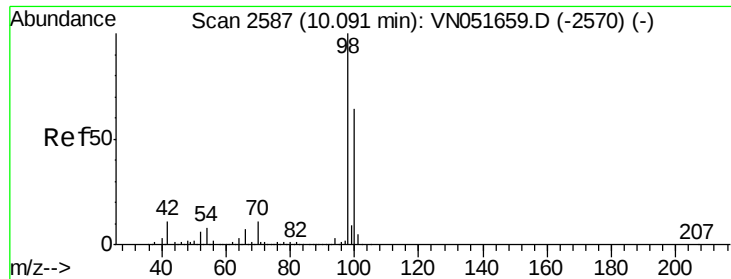
Tot Ion	Ratio	Lower	Upper
43	100		
61	16.6	15.8	23.6
87	12.6	12.6	19.0



#48
Methyl methacrylate
Concen: 1.079 ug/l
RT: 9.18 min Scan# 2305
Delta R.T. -0.02 min
Lab File: VN051671.D
Acq: 4 Oct 2018 18:19

Tgt Ion	Ratio	Lower	Upper
41	100		
69	3.3	78.6	118.0
39	12.6	59.2	88.8





#50

Toluene-d8

Concen: N.D. ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN051671.D

Acq: 4 Oct 2018 18:19

Instrument :

MSVOA_N

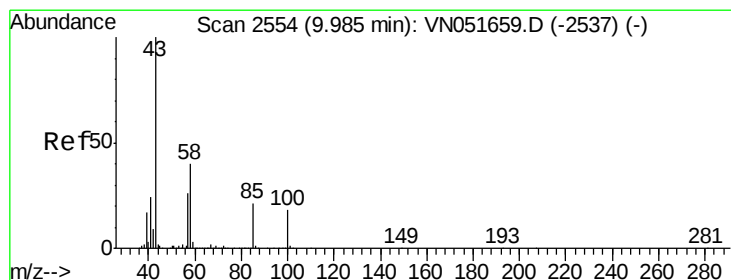
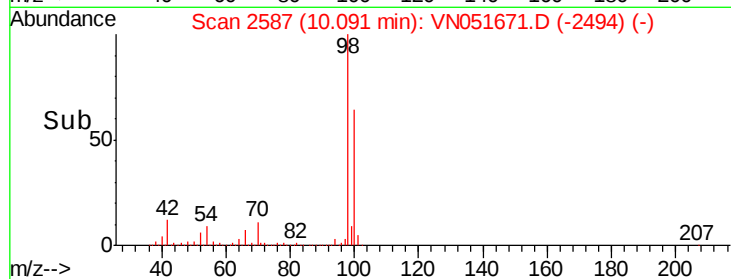
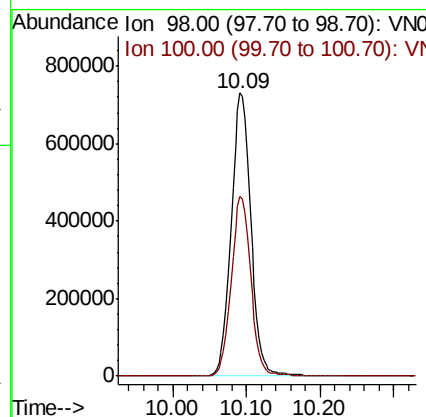
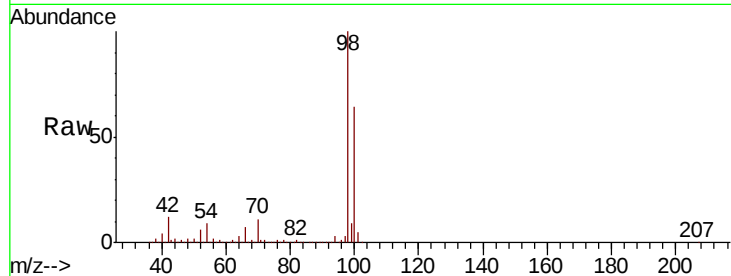
ClientSampleId :

Tot Ion: 98 Resp: 1356487

Ion Ratio Lower Upper

98 100

100 63.2 51.5 77.3



#51

4-Methyl-2-Pentanone

Concen: 0.308 ug/l

RT: 9.99 min Scan# 2554

Delta R.T. -0.00 min

Lab File: VN051671.D

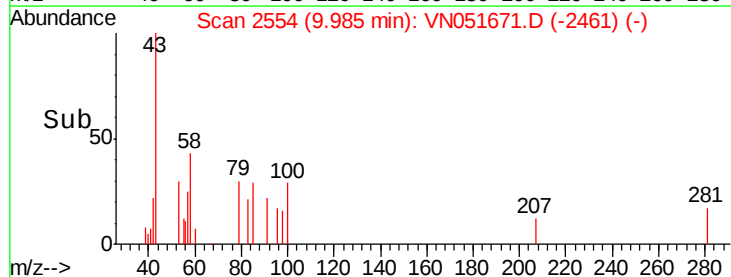
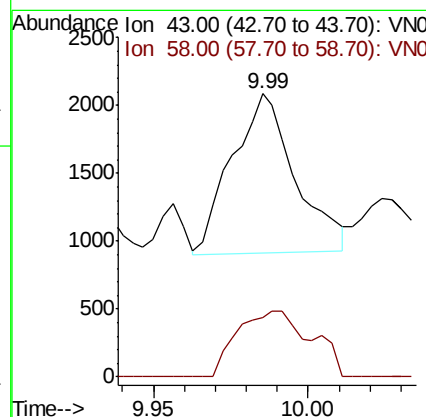
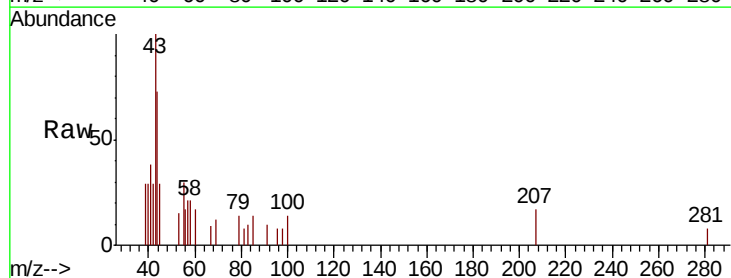
Acq: 4 Oct 2018 18:19

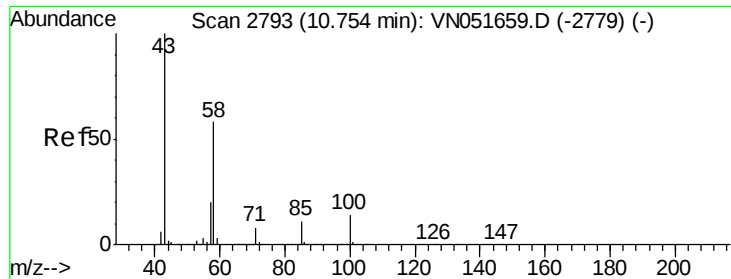
Tgt Ion: 43 Resp: 1672

Ion Ratio Lower Upper

43 100

58 48.1 32.2 48.2

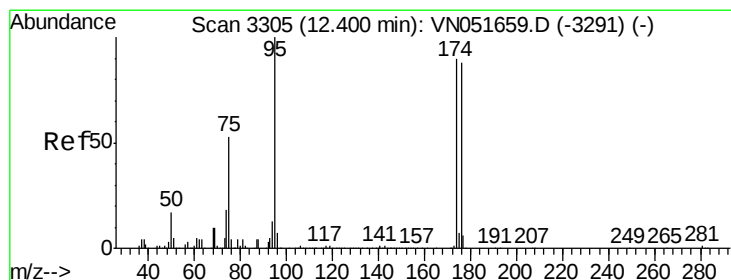
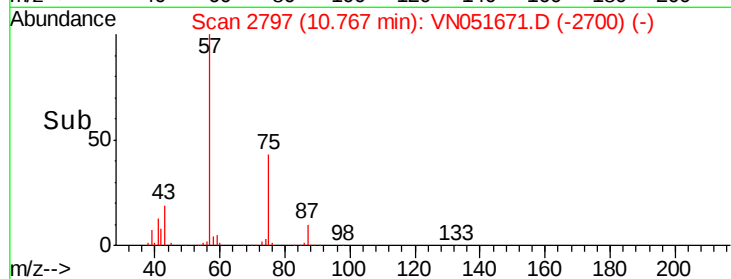
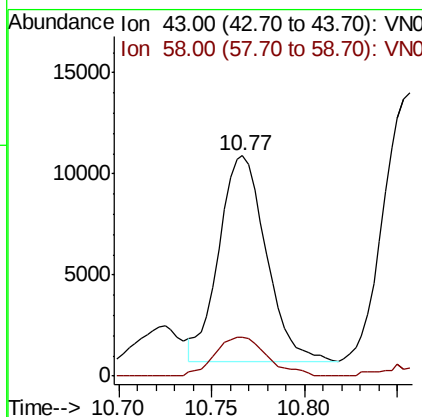
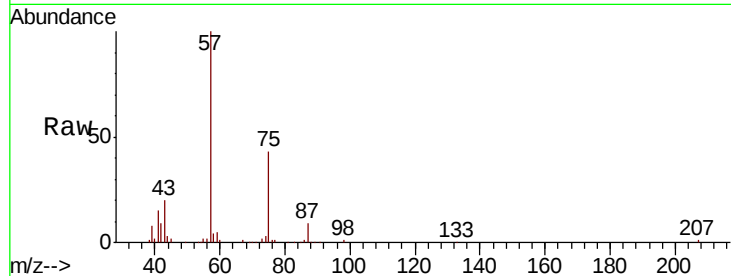




#59
2-Hexanone
Concen: 4.852 ug/l
RT: 10.77 min Scan# 2797
Delta R.T. 0.01 min
Lab File: VN051671.D
Acq: 4 Oct 2018 18:19

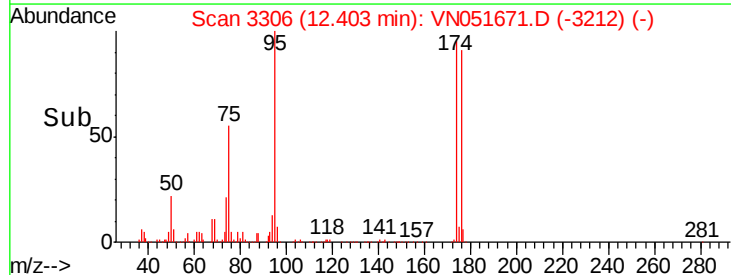
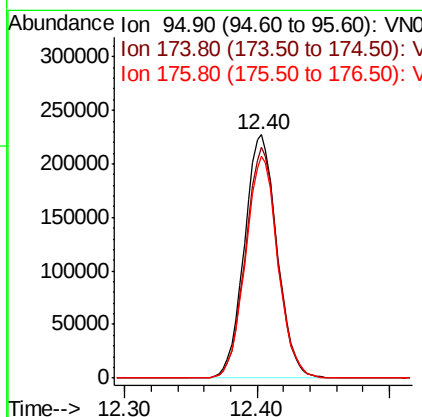
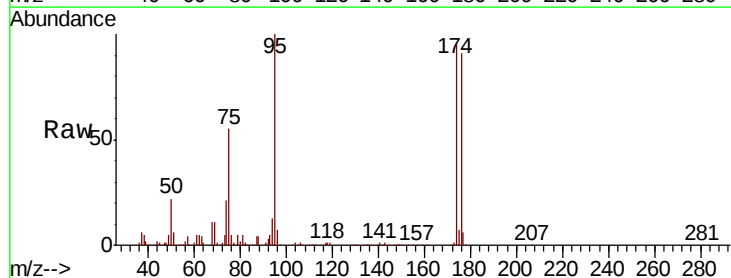
Instrument :
MSVOA_N
ClientSampleId :

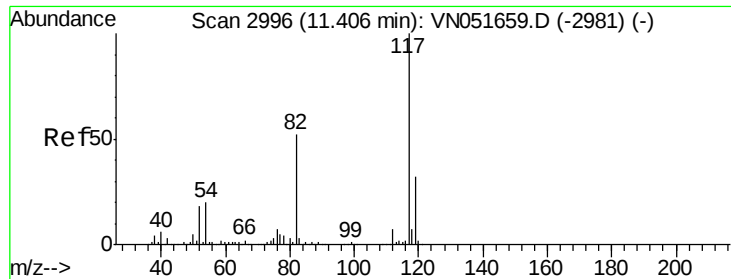
Tot Ion: 43 Resp: 17879
Ion Ratio Lower Upper
43 100
58 21.1 28.8 86.4#



#62
4-Bromofluorobenzene
Concen: Below ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN051671.D
Acq: 4 Oct 2018 18:19

Tgt Ion: 95 Resp: 386492
Ion Ratio Lower Upper
95 100
174 94.3 0.0 182.8
176 90.5 0.0 176.4

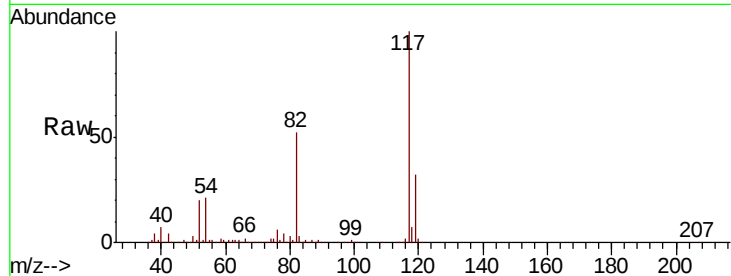




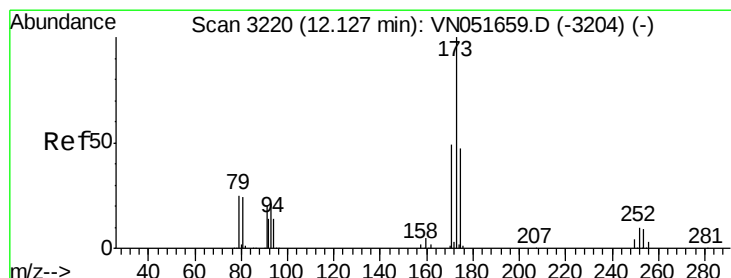
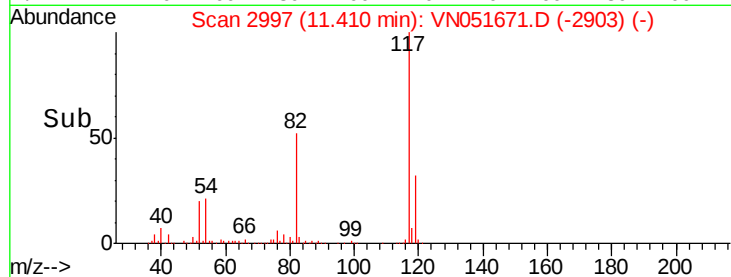
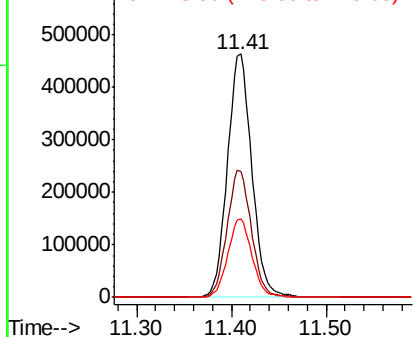
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2997
Delta R.T. 0.00 min
Lab File: VN051671.D
Acq: 4 Oct 2018 18:19

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:117 Resp: 828816
Ion Ratio Lower Upper
117 100
82 51.8 41.3 61.9
119 32.4 25.9 38.9

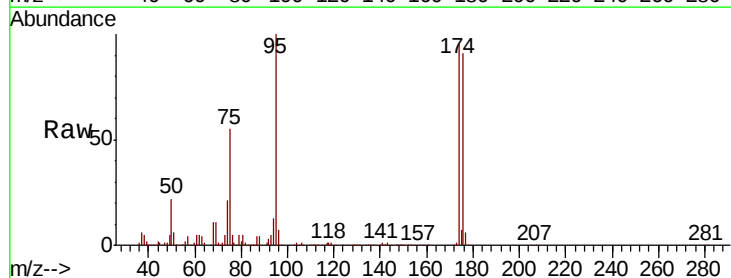


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

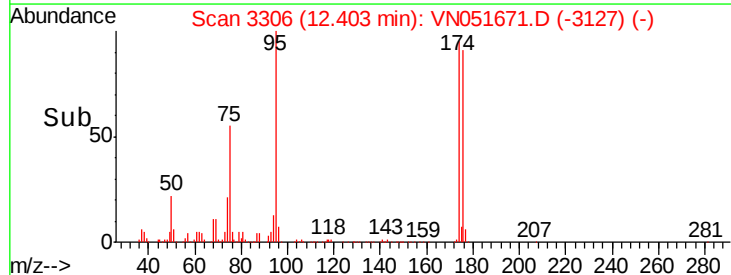
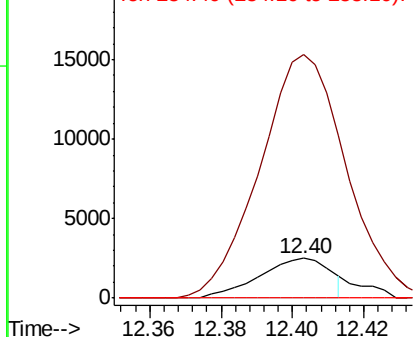


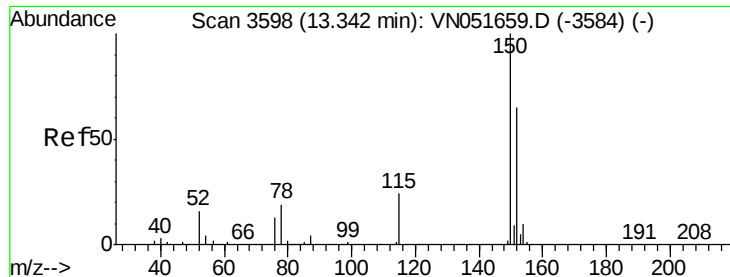
#71
Bromoform
Concen: 0.565 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.28 min
Lab File: VN051671.D
Acq: 4 Oct 2018 18:19

Tgt Ion:173 Resp: 3452
Ion Ratio Lower Upper
173 100
175 628.4 24.0 72.0#
254 0.0 0.1 0.1#



Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V



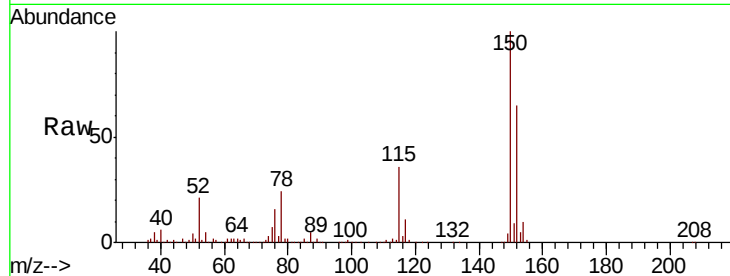


#72

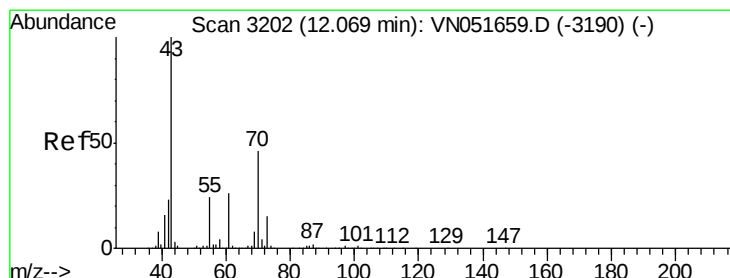
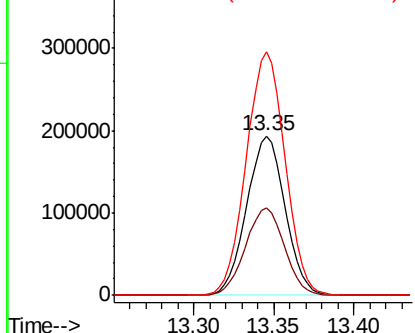
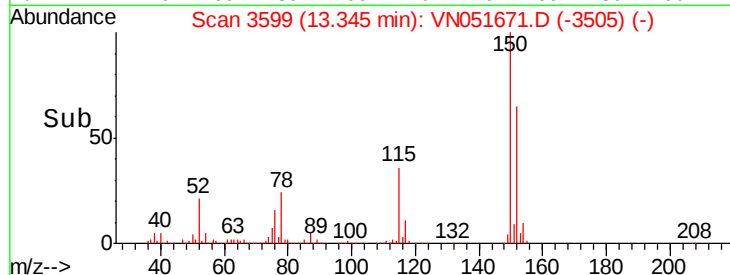
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.35 min Scan# 3599
Delta R.T. 0.00 min
Lab File: VN051671.D
Acq: 4 Oct 2018 18:19

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
152	100		
115	55.6	28.6	85.8
150	154.4	0.0	352.4



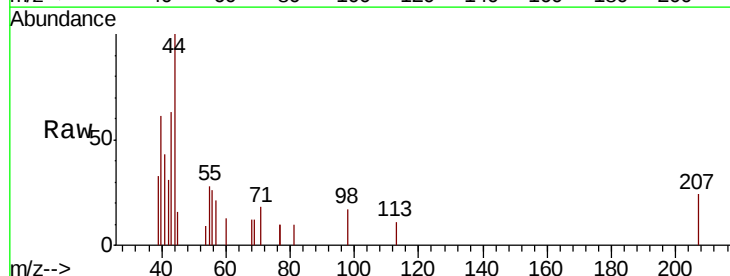
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



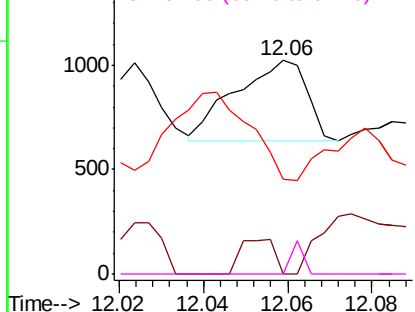
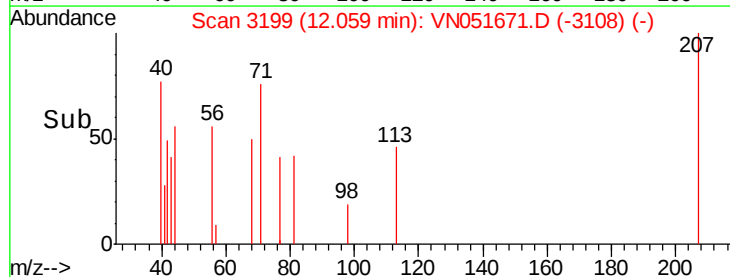
#74

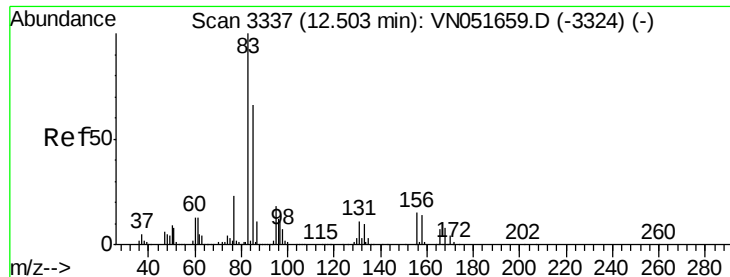
N-ethyl acetate
Concen: Below Cal
RT: 12.06 min Scan# 3199
Delta R.T. -0.01 min
Lab File: VN051671.D
Acq: 4 Oct 2018 18:19

Tgt Ion	Ratio	Lower	Upper
43	100		
70	20.7	37.1	55.7#
55	118.2	19.1	28.7#
61	6.8	20.8	31.2#



Abundance Ion 43.00 (42.70 to 43.70): V
Ion 70.00 (69.70 to 70.70): V
Ion 55.00 (54.70 to 55.70): V
Ion 61.00 (60.70 to 61.70): V





#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.50 min Scan# 3337

Delta R.T. 0.00 min

Lab File: VN051671.D

Acq: 4 Oct 2018 18:19

Instrument :

MSVOA_N

ClientSampled :

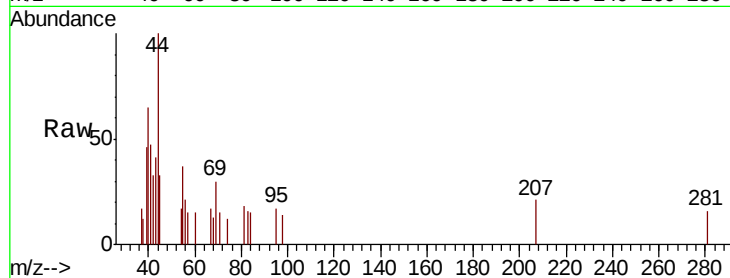
Tot Ion: 83 Resp: 108

Ion Ratio Lower Upper

83 100

131 0.0 5.7 17.1#

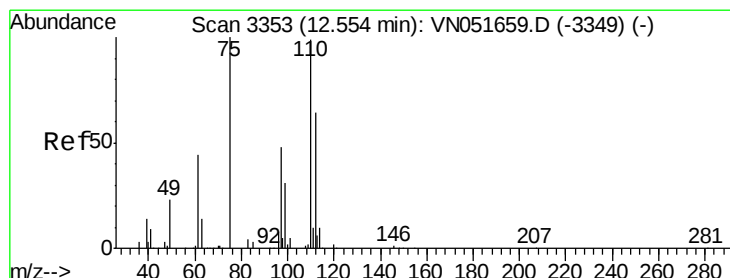
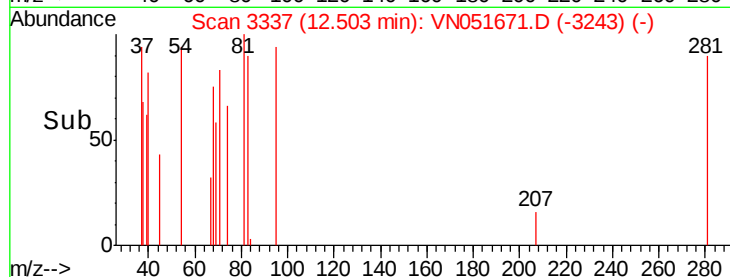
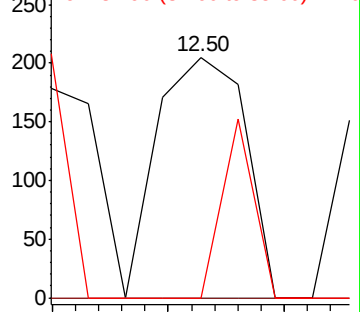
85 26.9 33.0 98.9#



Abundance Ion 82.90 (82.60 to 83.60): VN0

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): VN0



#76

1,2,3-Trichloropropane

Concen: 52.740 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN051671.D

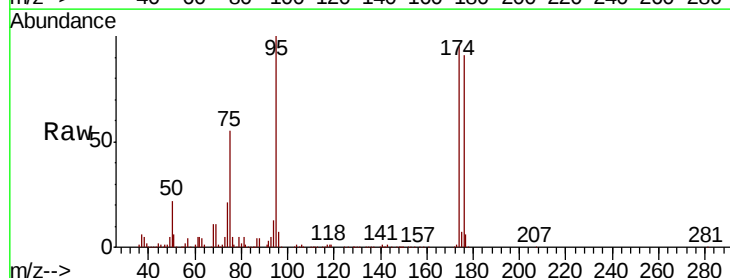
Acq: 4 Oct 2018 18:19

Tgt Ion: 75 Resp: 207729

Ion Ratio Lower Upper

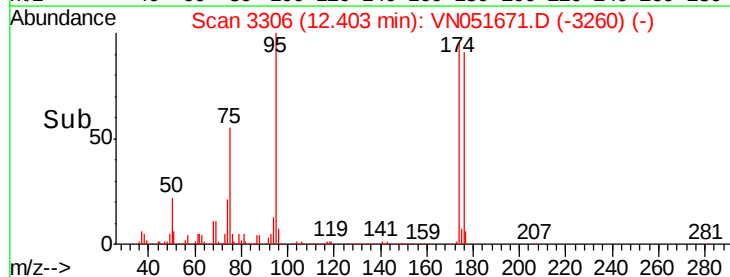
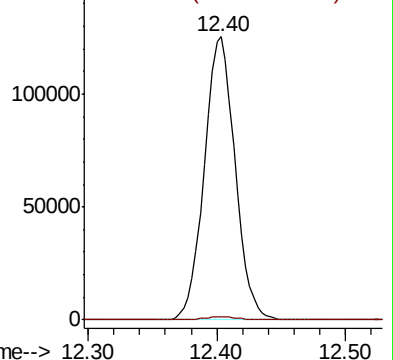
75 100

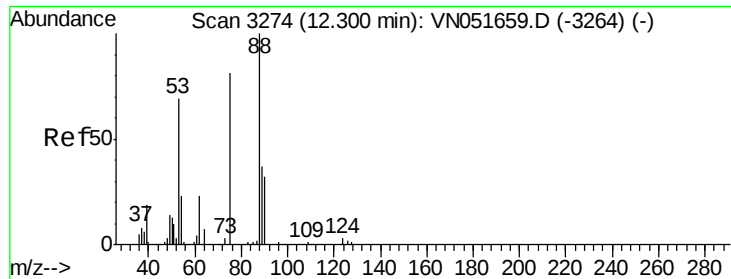
77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0





#81

trans-1,4-Dichloro-2-butene

Concen: 119.946 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN051671.D

Acq: 4 Oct 2018 18:19

Instrument :

MSVOA_N

ClientSampleId :

Tot Ion: 75 Resp: 207729

Ion Ratio Lower Upper

75 100

53 0.1 68.6 102.8#

89 0.0 39.4 59.2#

