

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN091918\
 Data File : VN051332.D
 Acq On : 19 Sep 2018 20:34
 Operator : MD\SY
 Sample : PB112984ZHE#06
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

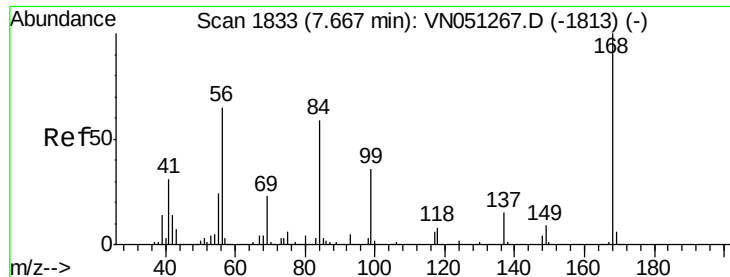
Quant Time: Sep 20 01:47:39 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N091718W.M
 Quant Title : SW846 8260
 QLast Update : Tue Sep 18 06:04:06 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	526989	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	852056	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	700744	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	228049	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.03	65	313525	54.74	ug/l	0.00
Spiked Amount			Recovery	=	109.48%	
35) Dibromofluoromethane	7.59	113	317225	47.91	ug/l	0.00
Spiked Amount			Recovery	=	95.82%	
50) Toluene-d8	10.09	98	1120478	45.78	ug/l	0.00
Spiked Amount			Recovery	=	91.56%	
62) 4-Bromofluorobenzene	12.40	95	296634	38.11	ug/l	0.00
Spiked Amount			Recovery	=	76.22%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.06	50	1475	Below Cal		91
5) Bromomethane	2.58	94	1524	0.90 ug/l		94
10) Methyl Iodide	3.96	142	196	6.14 ug/l #		43
16) Acetone	3.82	43	21947	7.66 ug/l		91
17) Carbon Disulfide	4.05	76	805	Below Cal #		75
18) Methyl Acetate	4.33	43	14278	2.97 ug/l		92
20) Methylene Chloride	4.55	84	31222	4.98 ug/l		94
25) 2-Butanone	6.85	43	4017	2.19 ug/l #		80
29) Tetrahydrofuran	7.22	42	873	0.77 ug/l #		48
31) Cyclohexane	7.67	56	7987	0.80 ug/l #		1
36) 1,1-Dichloropropene	7.67	75	33514	3.63 ug/l #		47
38) Carbon Tetrachloride	7.67	117	44910	4.67 ug/l #		18
43) Isopropyl Acetate	8.17	43	282219	34.40 ug/l #		87
48) Methyl methacrylate	9.18	41	5454	1.38 ug/l #		14
51) 4-Methyl-2-Pentanone	9.99	43	1682	0.40 ug/l		98
56) Ethyl methacrylate	10.27	69	100	2.08 ug/l #		1
59) 2-Hexanone	10.77	43	11094	3.98 ug/l #		60
70) Styrene	11.97	104	64	1.25 ug/l #		26
75) 1,1,2,2-Tetrachloroethane	12.40	83	114	Below Cal #		1
76) 1,2,3-Trichloropropane	12.40	75	136042	43.26 ug/l #		100
81) trans-1,4-Dichloro-2-buten	12.40	75	136042	132.49 ug/l #		15
89) n-Butylbenzene	13.35	91	385	2.05 ug/l #		34

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



#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1834

Delta R.T. 0.00 min

Lab File: VN051332.D

Acq: 19 Sep 2018 20:34

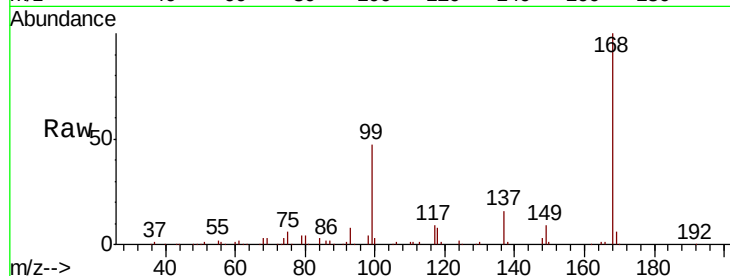
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 526989

Ion Ratio Lower Upper

168 100

99 47.1 38.2 57.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.67

250000

200000

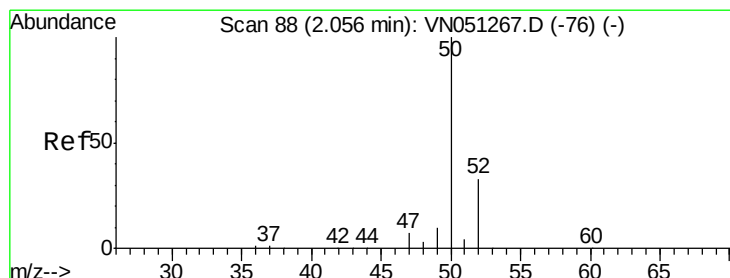
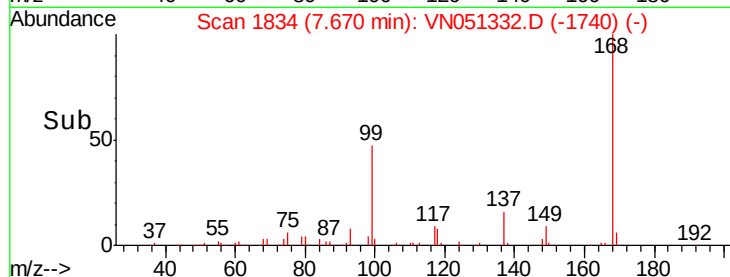
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: Below Cal

RT: 2.06 min Scan# 89

Delta R.T. 0.00 min

Lab File: VN051332.D

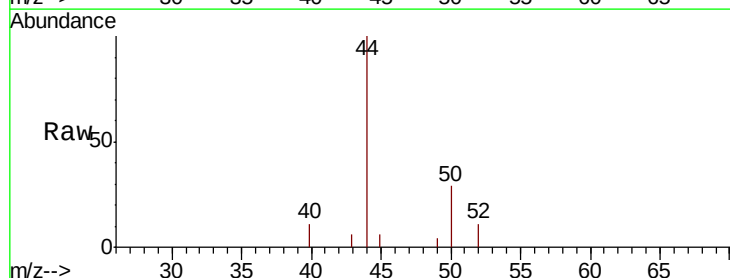
Acq: 19 Sep 2018 20:34

Tgt Ion: 50 Resp: 1475

Ion Ratio Lower Upper

50 100

52 38.3 26.6 40.0



Abundance Ion 49.90 (49.60 to 50.60): VNO

Ion 51.90 (51.60 to 52.60): VNO

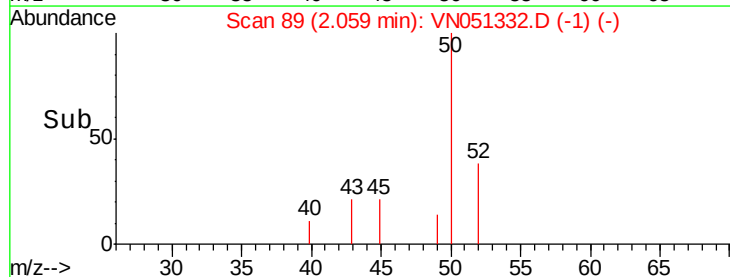
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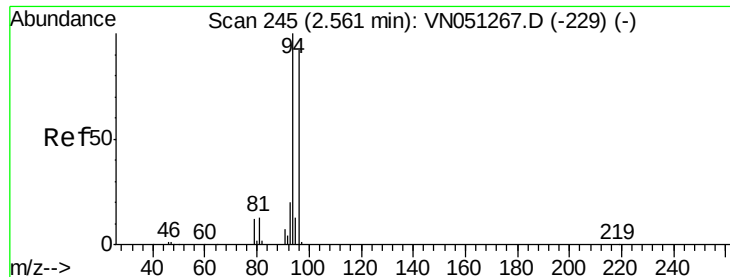
1000

500

0

Time-->





#5

Bromomethane

Concen: 0.90 ug/l

RT: 2.58 min Scan# 250

Delta R.T. 0.02 min

Lab File: VN051332.D

Acq: 19 Sep 2018 20:34

Instrument :

MSVOA_N

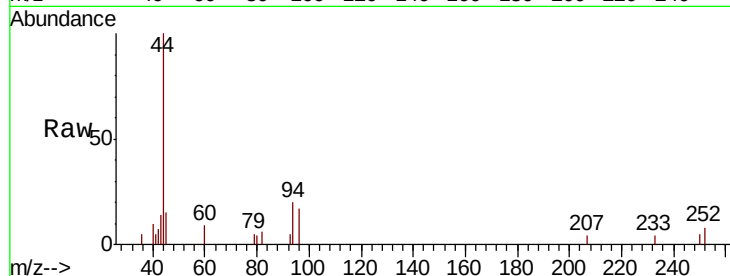
ClientSampled :

Tot Ion: 94 Resp: 1524

Ion Ratio Lower Upper

94 100

96 86.2 73.8 110.8



Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0

2.58

800

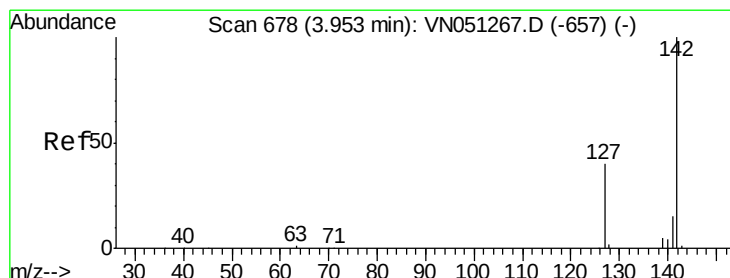
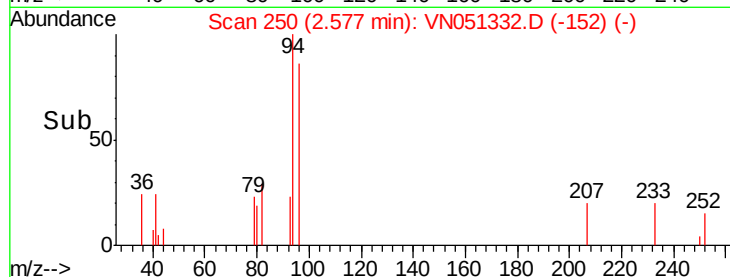
600

400

200

0

Time-->



#10

Methyl Iodide

Concen: 6.14 ug/l

RT: 3.96 min Scan# 680

Delta R.T. 0.01 min

Lab File: VN051332.D

Acq: 19 Sep 2018 20:34

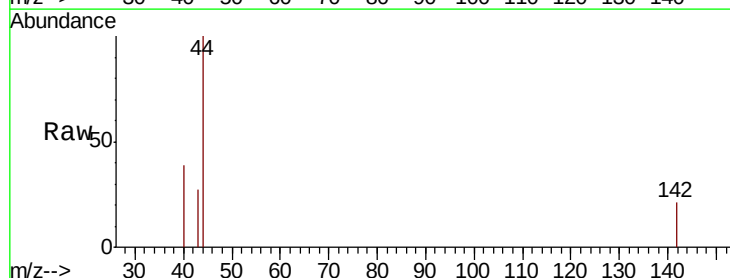
Tgt Ion: 142 Resp: 196

Ion Ratio Lower Upper

142 100

127 0.0 31.7 47.5#

141 0.0 11.6 17.4#



Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

250

200

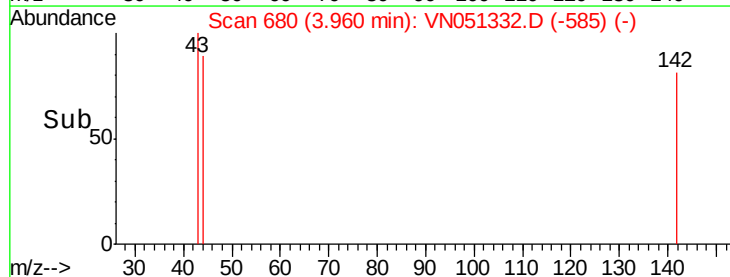
150

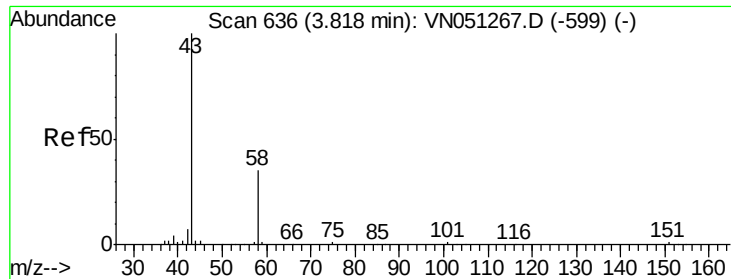
100

50

0

Time-->

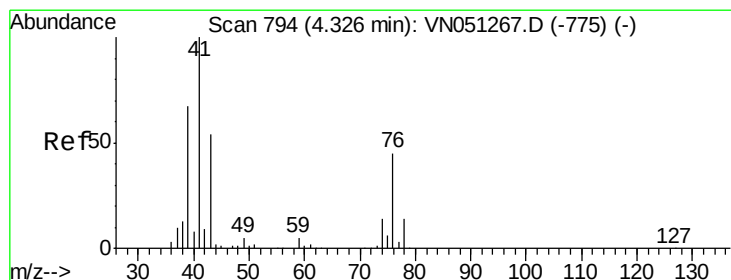
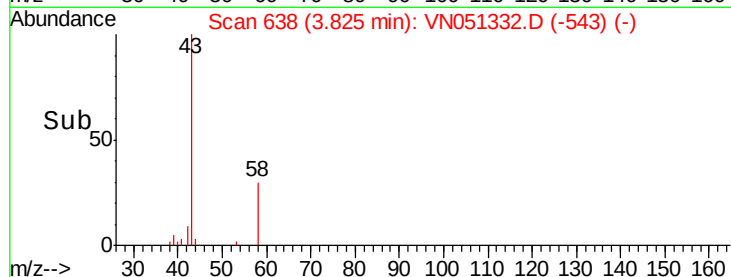
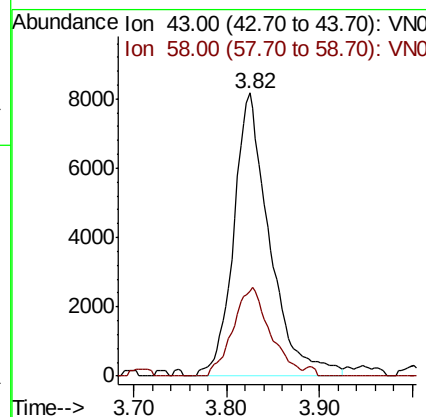
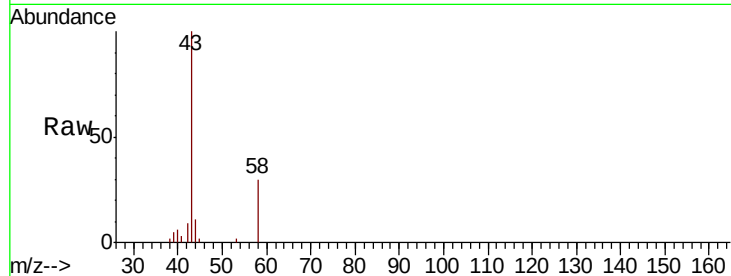




#16
Acetone
Concen: 7.66 ug/l
RT: 3.82 min Scan# 638
Delta R.T. 0.01 min
Lab File: VN051332.D
Acq: 19 Sep 2018 20:34

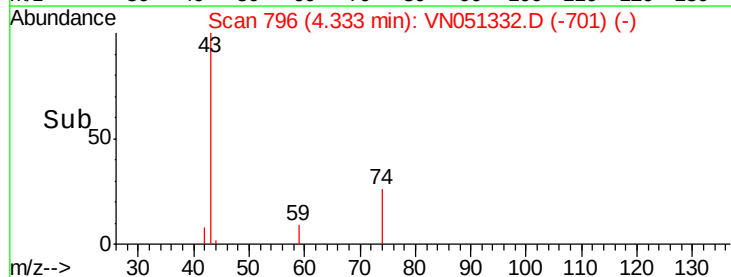
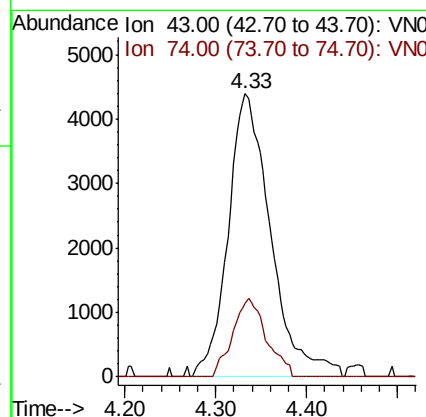
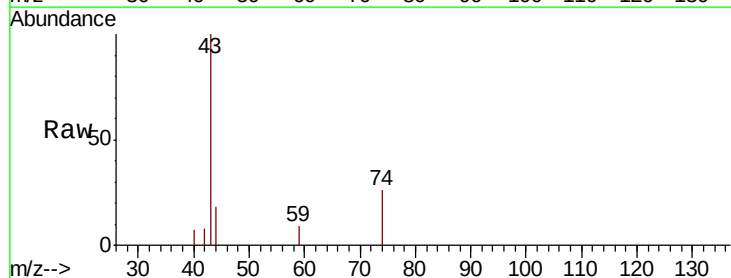
Instrument :
MSVOA_N
ClientSampled :

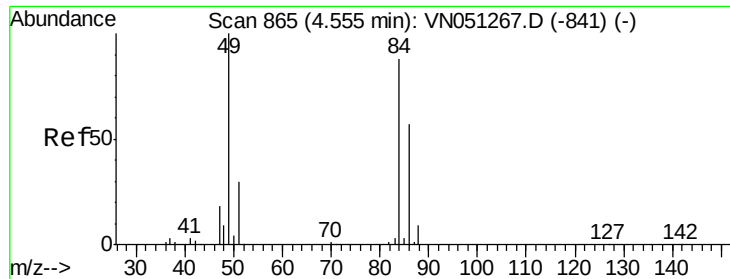
Tot Ion: 43 Resp: 21947
Ion Ratio Lower Upper
43 100
58 30.1 28.2 42.2



#18
Methyl Acetate
Concen: 2.97 ug/l
RT: 4.33 min Scan# 796
Delta R.T. 0.01 min
Lab File: VN051332.D
Acq: 19 Sep 2018 20:34

Tgt Ion: 43 Resp: 14278
Ion Ratio Lower Upper
43 100
74 21.9 20.8 31.2

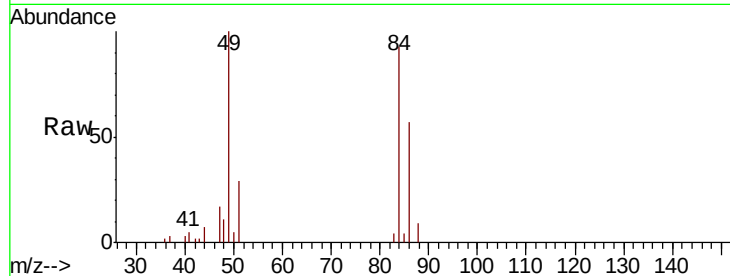




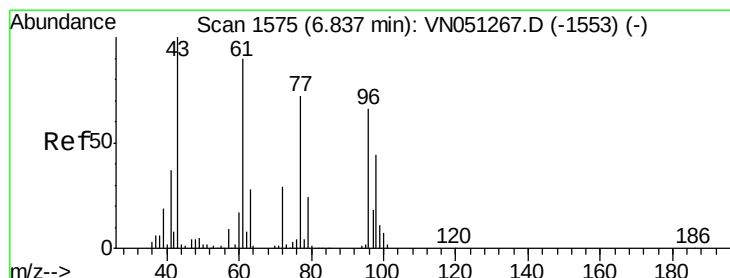
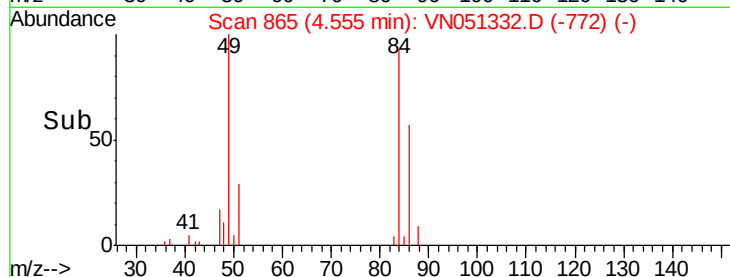
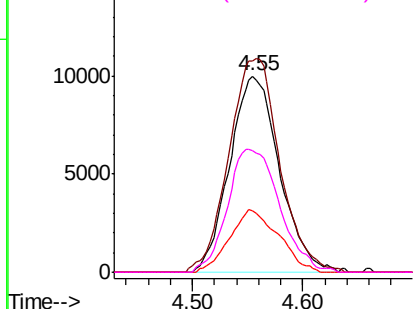
#20
Methvlene Chloride
Concen: 4.98 ug/l
RT: 4.55 min Scan# 865
Delta R.T. 0.00 min
Lab File: VN051332.D
Acq: 19 Sep 2018 20:34

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 84 Resp: 31222
Ion Ratio Lower Upper
84 100
49 106.3 91.2 136.8
51 31.3 27.7 41.5
86 62.1 52.0 78.0

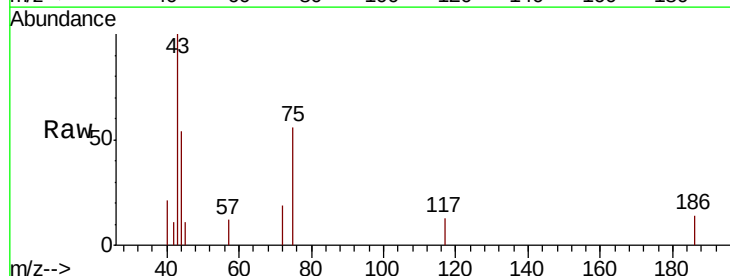


Abundance Ion 83.90 (83.60 to 84.60): VNC
Ion 48.90 (48.60 to 49.60): VNC
Ion 50.90 (50.60 to 51.60): VNC
Ion 85.90 (85.60 to 86.60): VNC

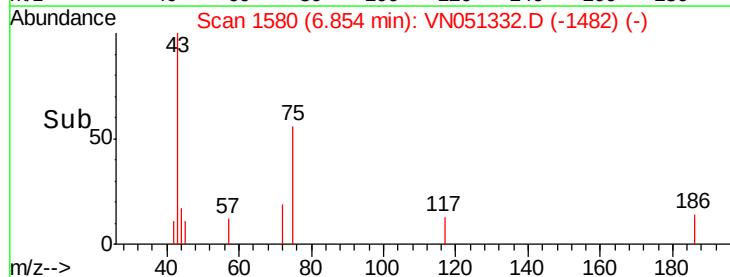
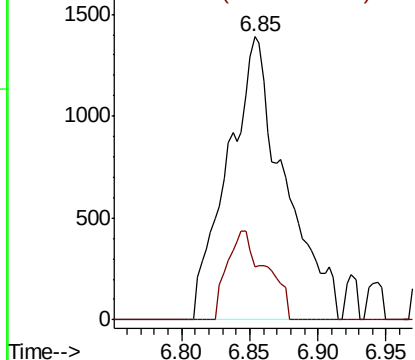


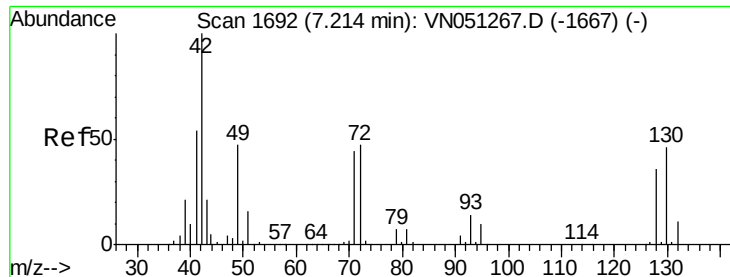
#25
2-Butanone
Concen: 2.19 ug/l
RT: 6.85 min Scan# 1580
Delta R.T. 0.02 min
Lab File: VN051332.D
Acq: 19 Sep 2018 20:34

Tgt Ion: 43 Resp: 4017
Ion Ratio Lower Upper
43 100
72 18.5 23.4 35.0#



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

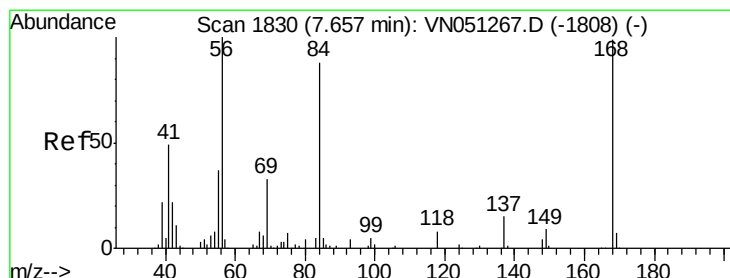
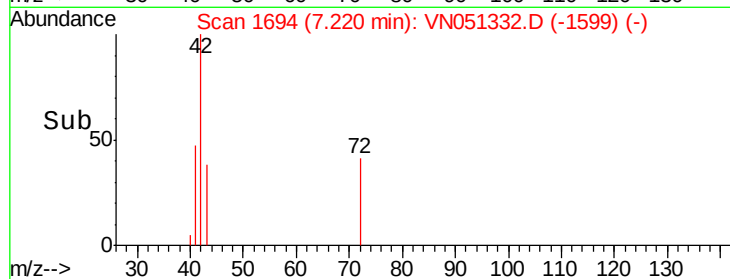
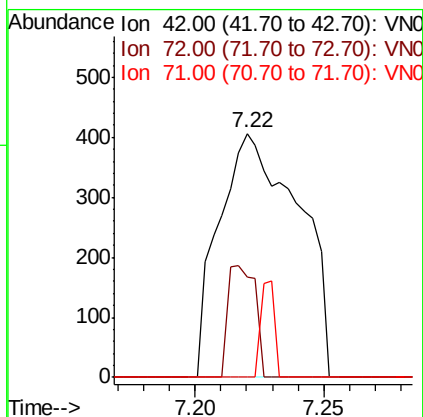
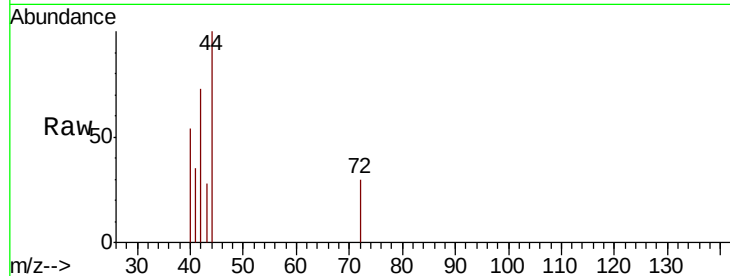




#29
Tetrahydrofuran
Concen: 0.77 ug/l
RT: 7.22 min Scan# 1694
Delta R.T. 0.01 min
Lab File: VN051332.D
Acq: 19 Sep 2018 20:34

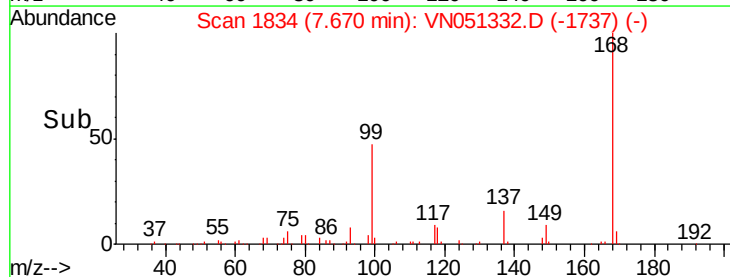
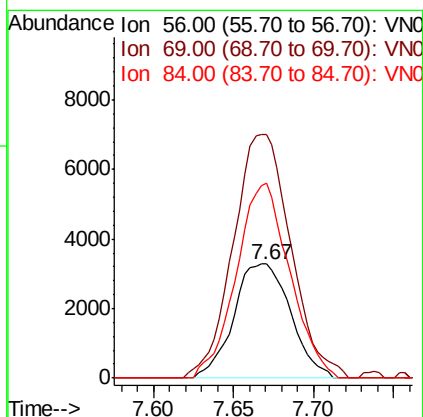
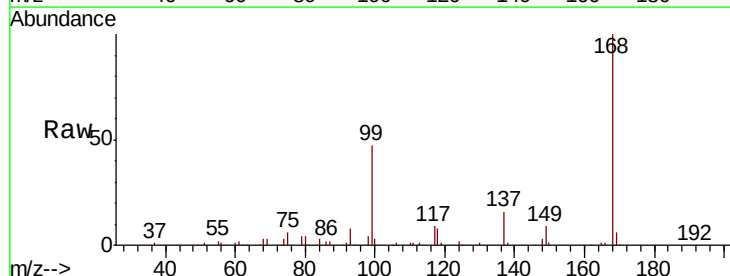
Instrument :
MSVOA_N
ClientSampled :

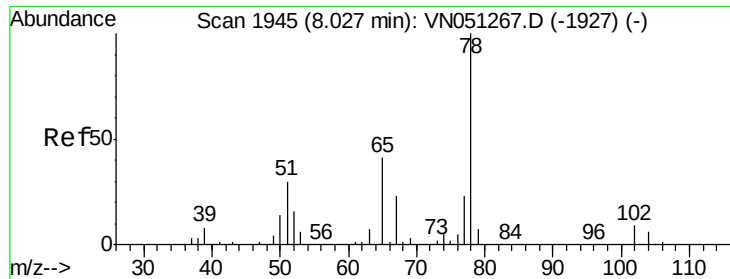
Tot Ion: 42 Resp: 873
Ion Ratio Lower Upper
42 100
72 15.5 37.6 56.4#
71 7.0 35.4 53.2#



#31
Cyclohexane
Concen: 0.80 ug/l
RT: 7.67 min Scan# 1834
Delta R.T. 0.01 min
Lab File: VN051332.D
Acq: 19 Sep 2018 20:34

Tgt Ion: 56 Resp: 7987
Ion Ratio Lower Upper
56 100
69 208.5 26.2 39.2#
84 170.5 70.6 106.0#

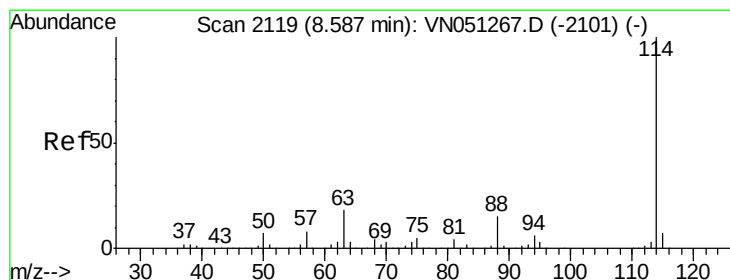
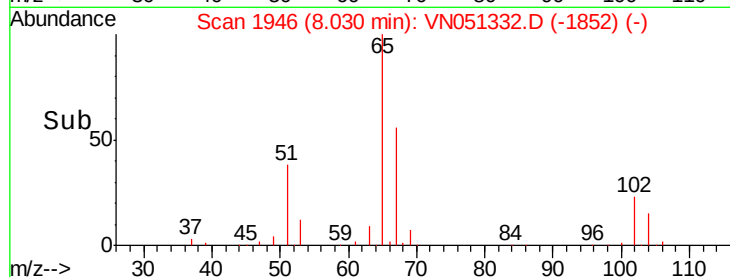
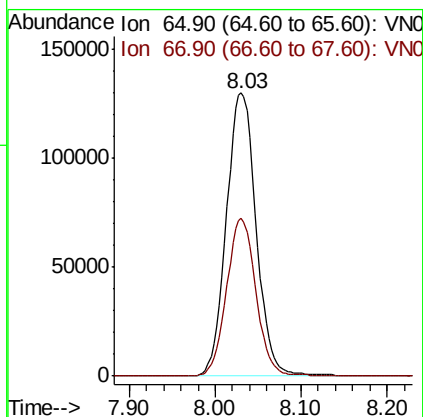
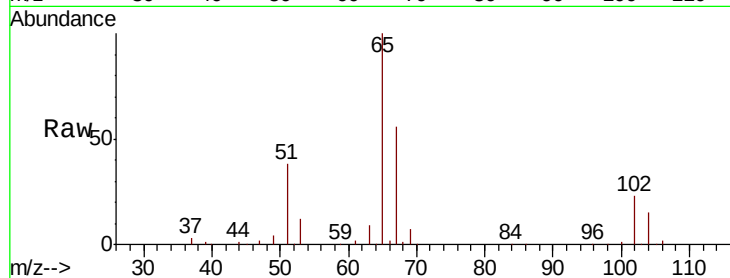




#33
 1,2-Dichloroethane-d4
 Concen: 54.74 ug/l
 RT: 8.03 min Scan# 1946
 Delta R.T. 0.00 min
 Lab File: VN051332.D
 Acq: 19 Sep 2018 20:34

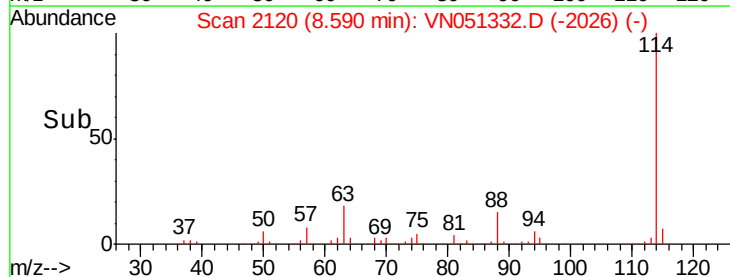
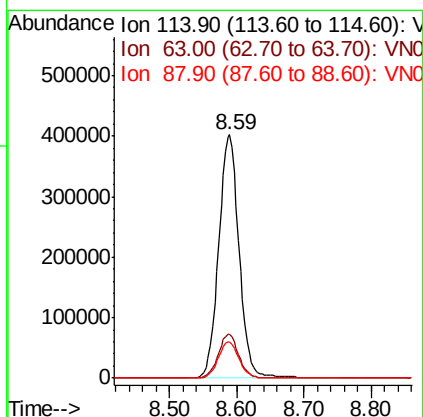
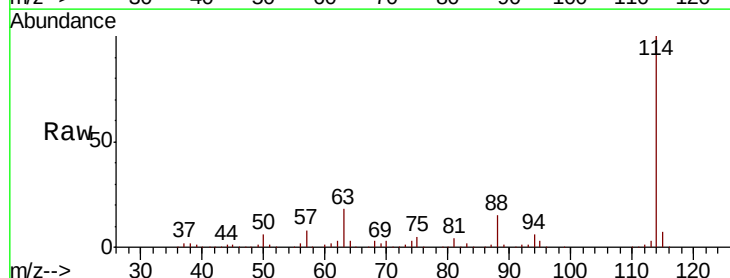
Instrument :
 MSVOA_N
 ClientSampled :

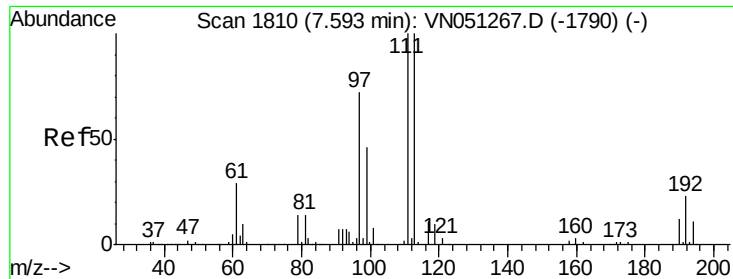
Tot Ion: 65 Resp: 313525
 Ion Ratio Lower Upper
 65 100
 67 54.8 0.0 111.0



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2120
 Delta R.T. 0.00 min
 Lab File: VN051332.D
 Acq: 19 Sep 2018 20:34

Tgt Ion: 114 Resp: 852056
 Ion Ratio Lower Upper
 114 100
 63 17.9 0.0 36.8
 88 14.9 0.0 30.8

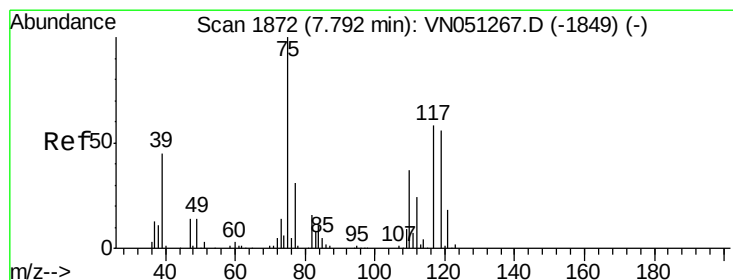
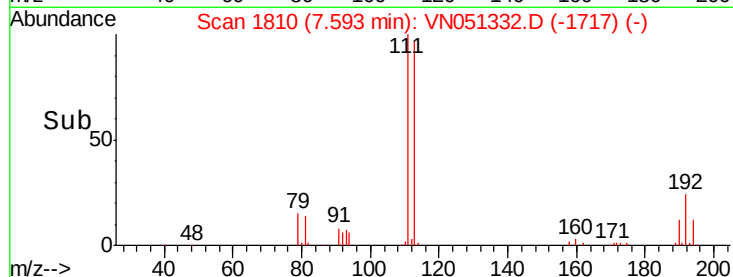
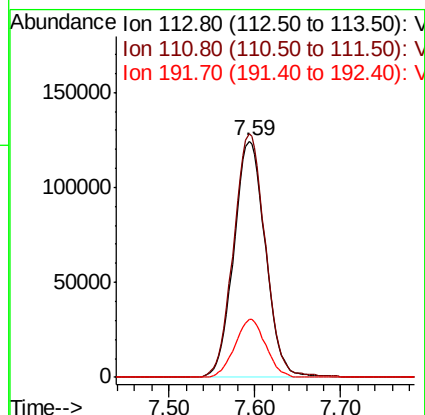
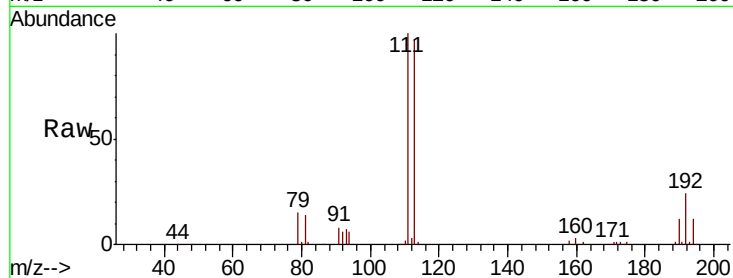




#35
 Dibromofluoromethane
 Concen: 47.91 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN051332.D
 Acq: 19 Sep 2018 20:34

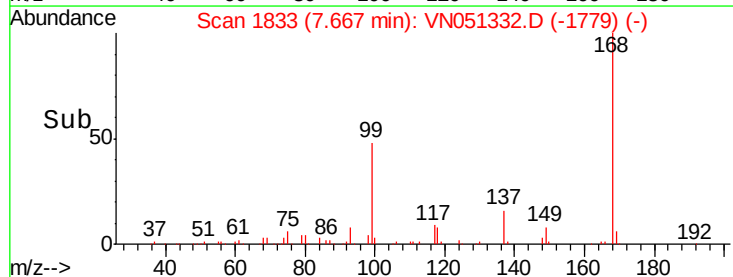
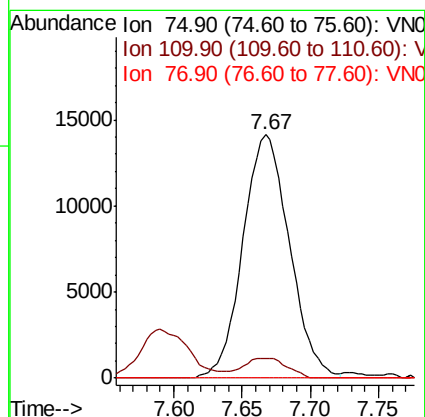
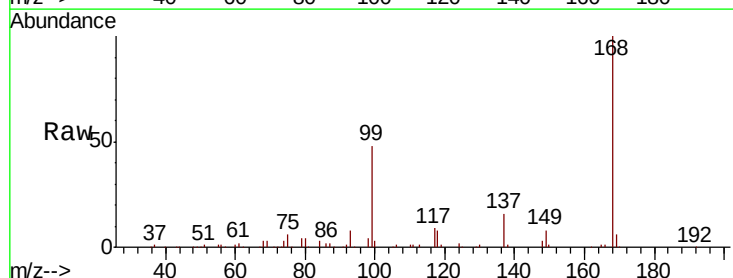
Instrument :
 MSVOA_N
 ClientSampleId :

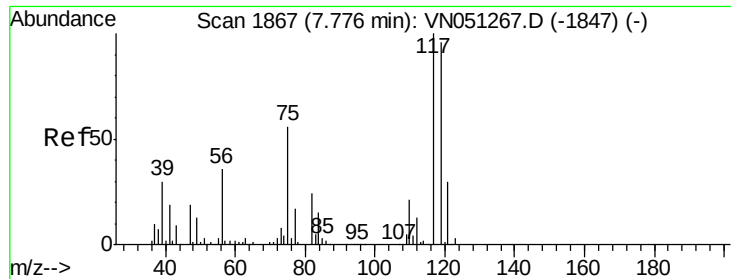
Tot Ion	Ratio	Lower	Upper
113	100		
111	103.7	82.2	123.4
192	24.0	19.0	28.6



#36
 1,1-Dichloropropene
 Concen: 3.63 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.13 min
 Lab File: VN051332.D
 Acq: 19 Sep 2018 20:34

Tgt Ion	Ratio	Lower	Upper
75	100		
110	7.6	18.6	56.0#
77	0.0	24.7	37.1#





#38

Carbon Tetrachloride

Concen: 4.67 ug/l

RT: 7.67 min Scan# 1834

Delta R.T. -0.11 min

Lab File: VN051332.D

Acq: 19 Sep 2018 20:34

Instrument :

MSVOA_N

ClientSampled :

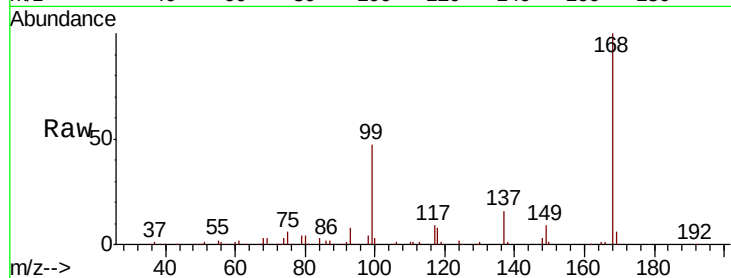
Tot Ion:117 Resp: 44910

Ion Ratio Lower Upper

117 100

119 7.5 76.8 115.2#

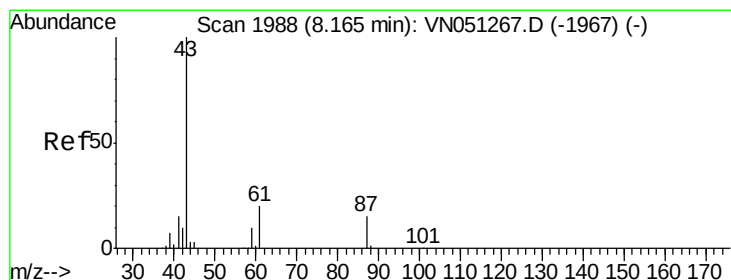
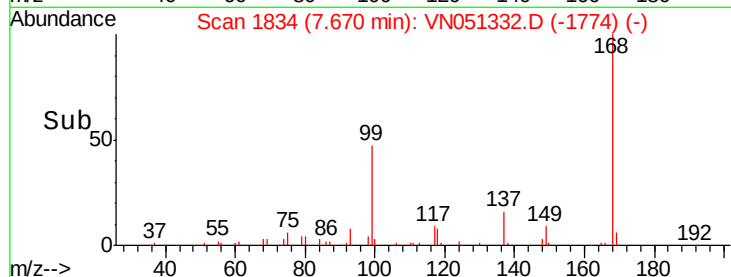
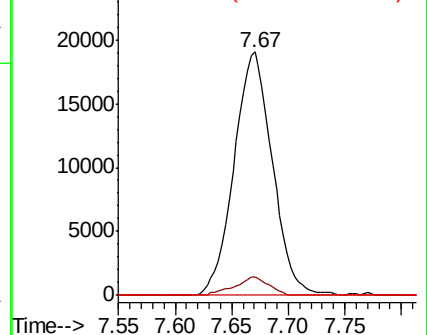
121 0.0 24.2 36.2#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#43

Isopropyl Acetate

Concen: 34.40 ug/l

RT: 8.17 min Scan# 1989

Delta R.T. 0.00 min

Lab File: VN051332.D

Acq: 19 Sep 2018 20:34

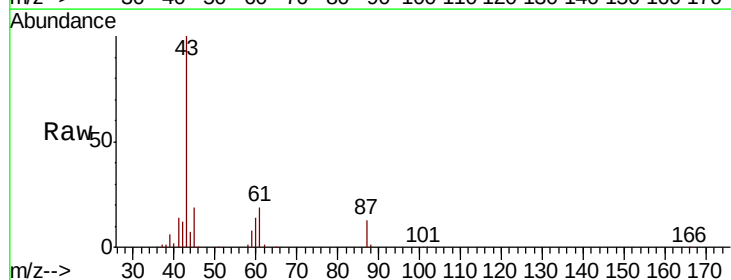
Tgt Ion: 43 Resp: 282219

Ion Ratio Lower Upper

43 100

61 15.6 17.4 26.2#

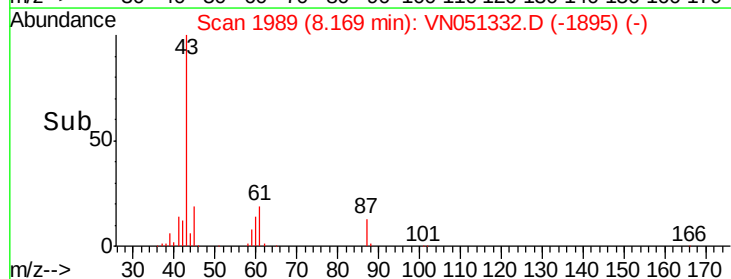
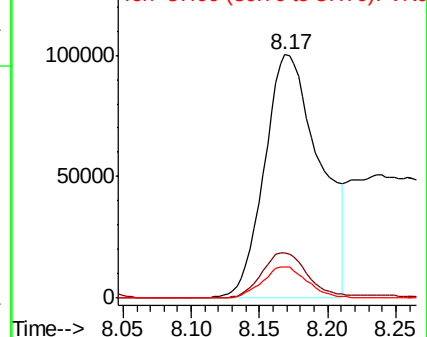
87 10.4 12.2 18.4#

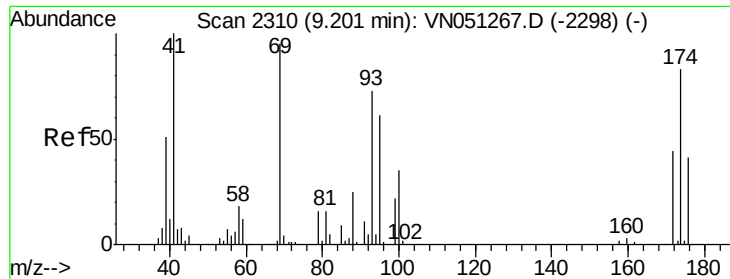


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V

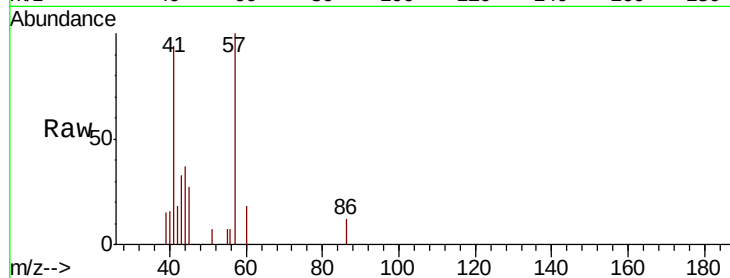




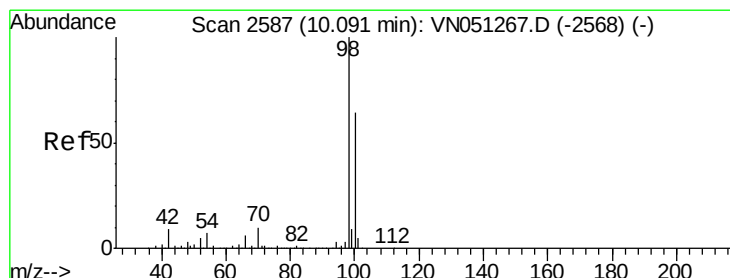
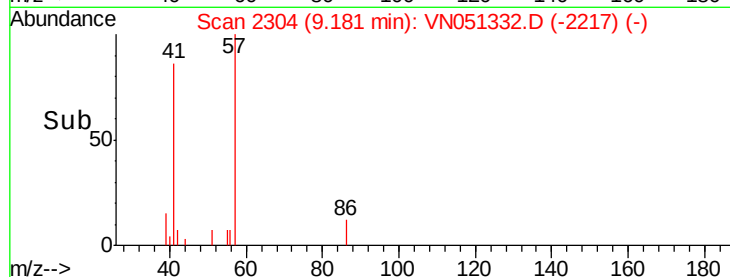
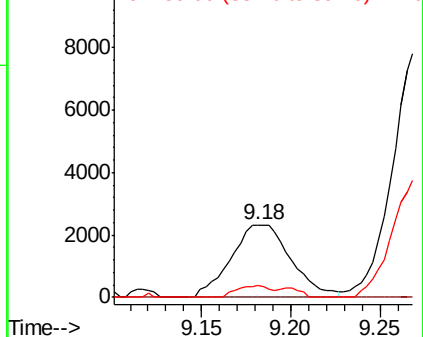
#48
Methvl methacrylate
Concen: 1.38 ug/l
RT: 9.18 min Scan# 2304
Delta R.T. -0.02 min
Lab File: VN051332.D
Acq: 19 Sep 2018 20:34

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 41 Resp: 5454
Ion Ratio Lower Upper
41 100
69 0.0 78.9 118.3#
39 9.2 42.2 63.2#

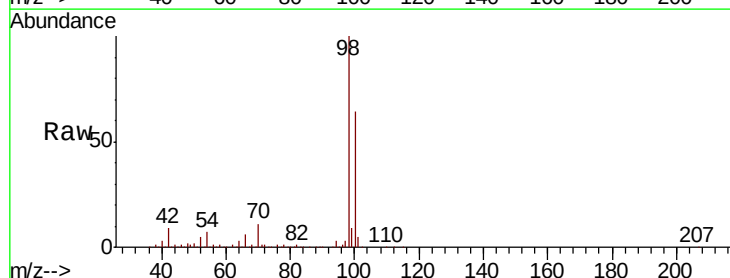


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

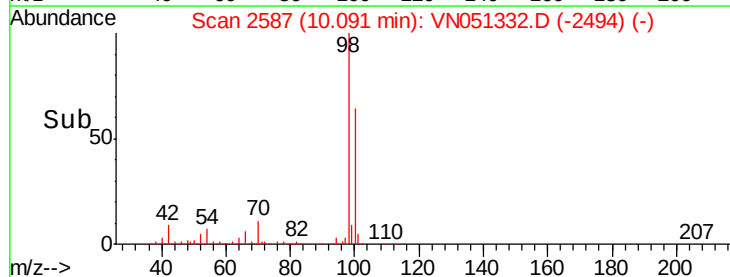
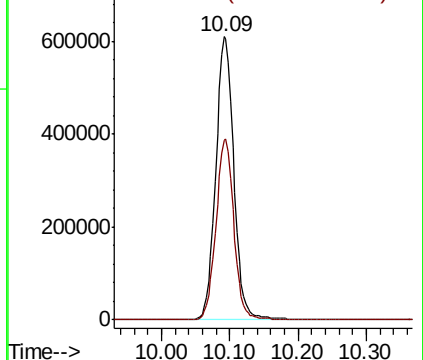


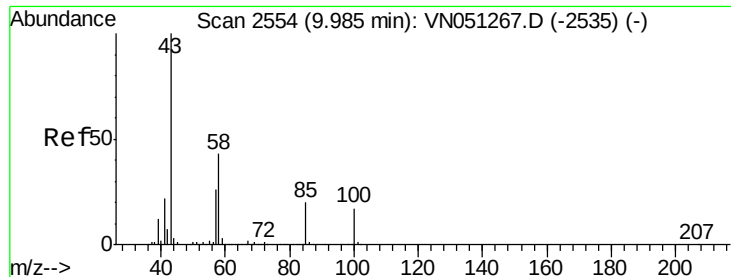
#50
Toluene-d8
Concen: 45.78 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN051332.D
Acq: 19 Sep 2018 20:34

Tgt Ion: 98 Resp: 1120478
Ion Ratio Lower Upper
98 100
100 63.6 51.6 77.4



Abundance Ion 98.00 (97.70 to 98.70): VN0
Ion 100.00 (99.70 to 100.70): VN0





#51

4-Methyl-2-Pentanone

Concen: 0.40 ug/l

RT: 9.99 min Scan# 2555

Delta R.T. 0.00 min

Lab File: VN051332.D

Acq: 19 Sep 2018 20:34

Instrument :

MSVOA_N

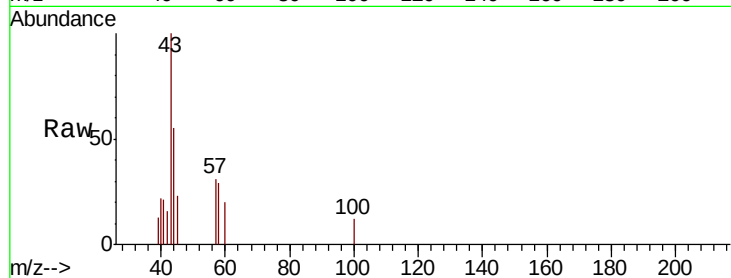
ClientSampled :

Tot Ion: 43 Resp: 1682

Ion Ratio Lower Upper

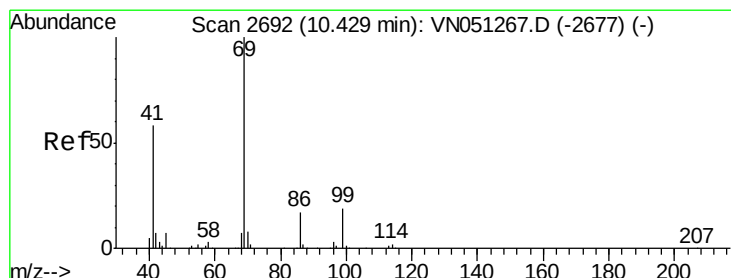
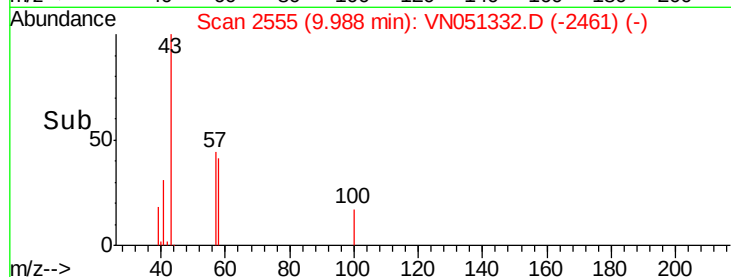
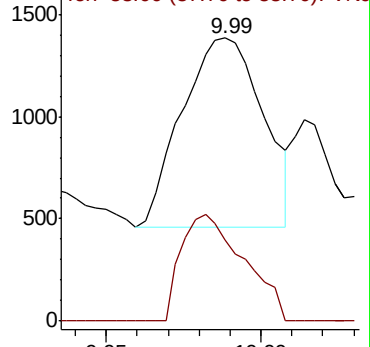
43 100

58 43.7 33.8 50.6



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#56

Ethyl methacrylate

Concen: 2.08 ug/l

RT: 10.27 min Scan# 2643

Delta R.T. -0.16 min

Lab File: VN051332.D

Acq: 19 Sep 2018 20:34

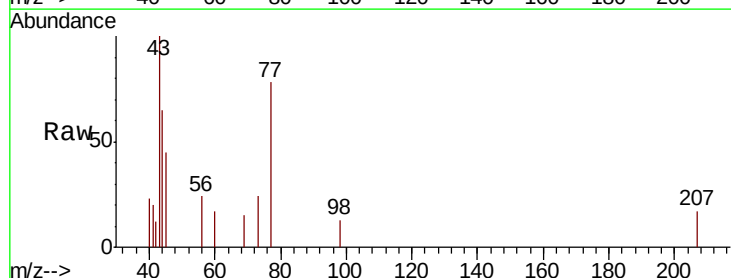
Tgt Ion: 69 Resp: 100

Ion Ratio Lower Upper

69 100

41 654.0 47.4 71.0#

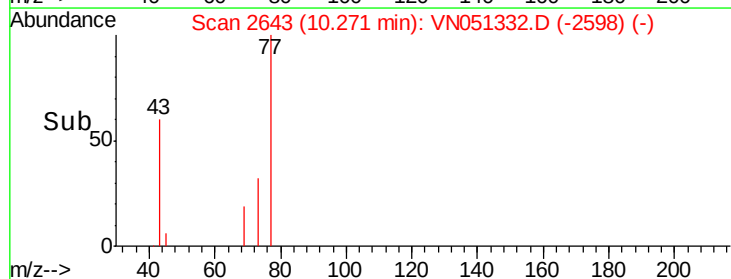
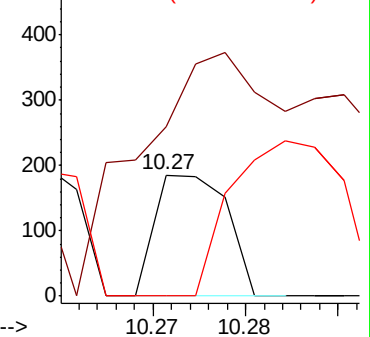
39 195.0 23.7 35.5#

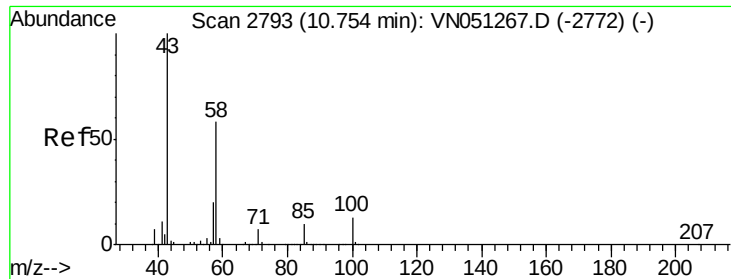


Abundance Ion 69.00 (68.70 to 69.70): VN0

Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

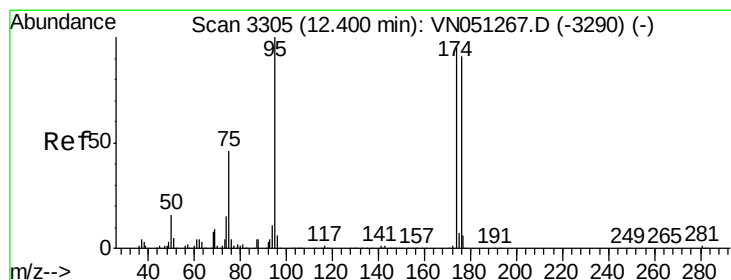
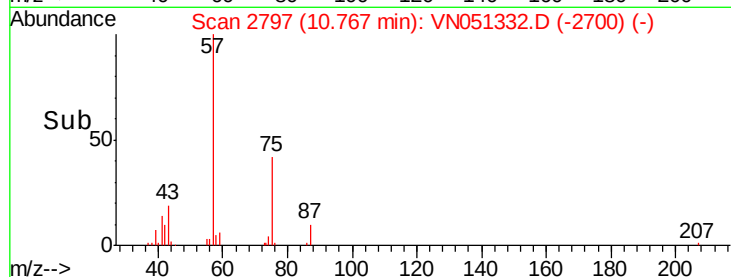
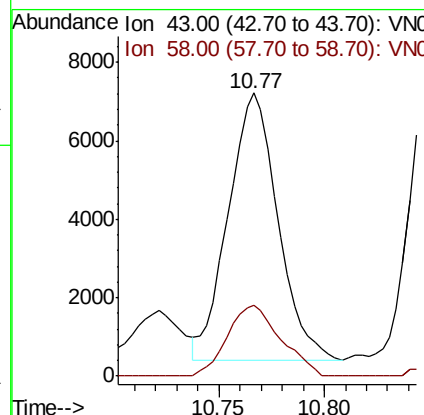
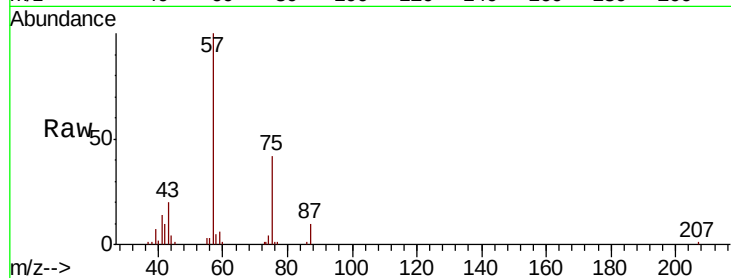




#59
 2-Hexanone
 Concen: 3.98 ug/l
 RT: 10.77 min Scan# 2797
 Delta R.T. 0.01 min
 Lab File: VN051332.D
 Acq: 19 Sep 2018 20:34

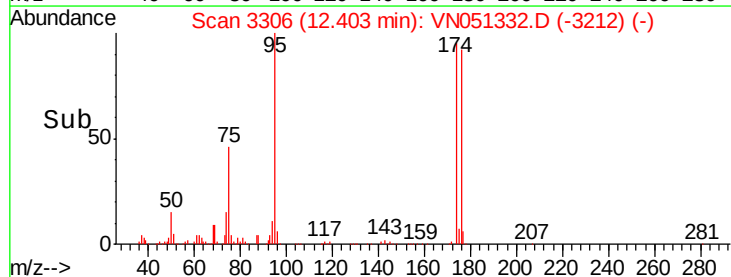
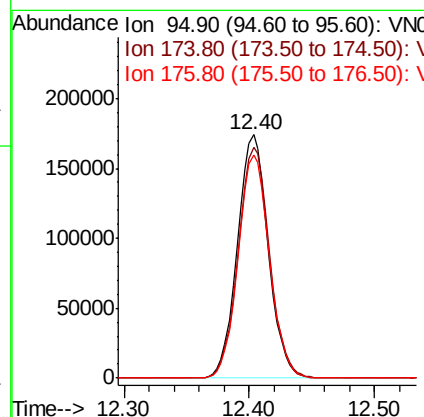
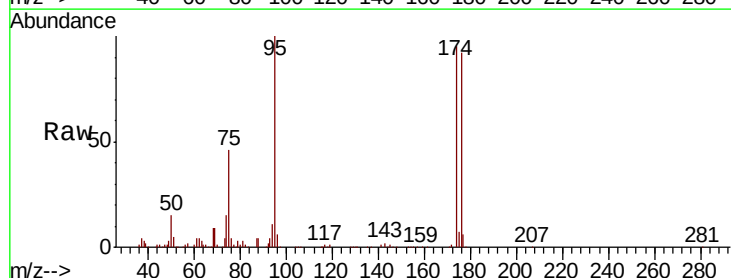
Instrument :
 MSVOA_N
 ClientSampled :

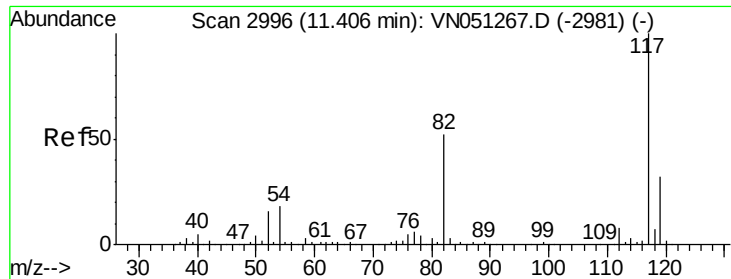
Tot Ion: 43 Resp: 11094
 Ion Ratio Lower Upper
 43 100
 58 28.4 28.9 86.8#



#62
 4-Bromofluorobenzene
 Concen: 38.11 ug/l
 RT: 12.40 min Scan# 3306
 Delta R.T. 0.00 min
 Lab File: VN051332.D
 Acq: 19 Sep 2018 20:34

Tgt Ion: 95 Resp: 296634
 Ion Ratio Lower Upper
 95 100
 174 97.0 0.0 189.6
 176 93.0 0.0 182.6

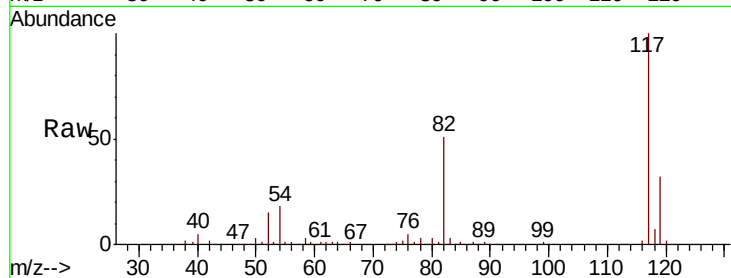




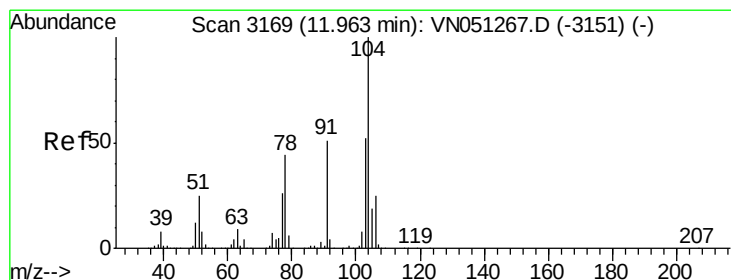
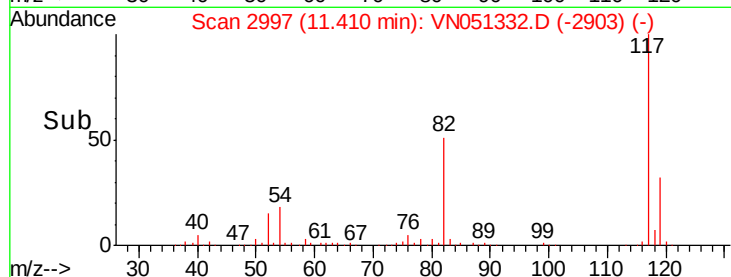
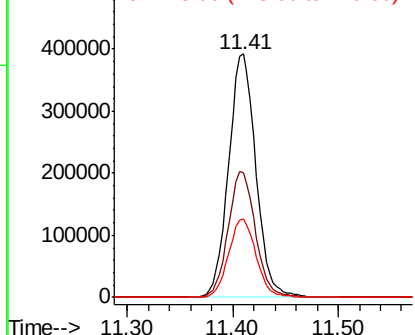
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 2997
Delta R.T. 0.00 min
Lab File: VN051332.D
Acq: 19 Sep 2018 20:34

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:117 Resp: 700744
Ion Ratio Lower Upper
117 100
82 51.4 41.8 62.8
119 32.1 25.6 38.4

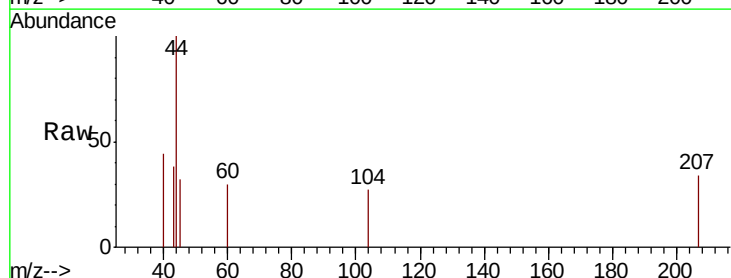


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VN
Ion 118.90 (118.60 to 119.60): V

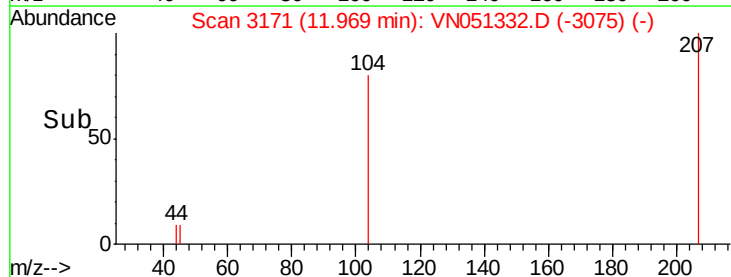
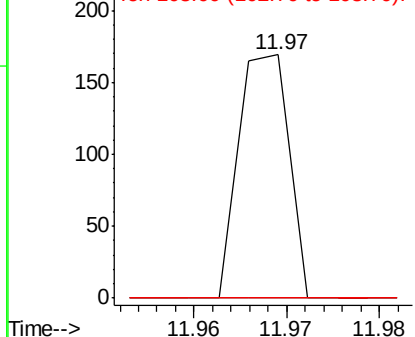


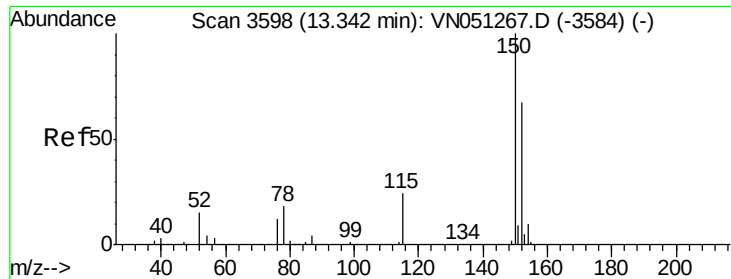
#70
Styrene
Concen: 1.25 ug/l
RT: 11.97 min Scan# 3171
Delta R.T. 0.01 min
Lab File: VN051332.D
Acq: 19 Sep 2018 20:34

Tgt Ion:104 Resp: 64
Ion Ratio Lower Upper
104 100
78 0.0 38.1 57.1#
103 0.0 44.8 67.2#



Abundance Ion 104.00 (103.70 to 104.70): V
Ion 78.00 (77.70 to 78.70): VN
Ion 103.00 (102.70 to 103.70): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN051332.D

Acq: 19 Sep 2018 20:34

Instrument :

MSVOA_N

ClientSampled :

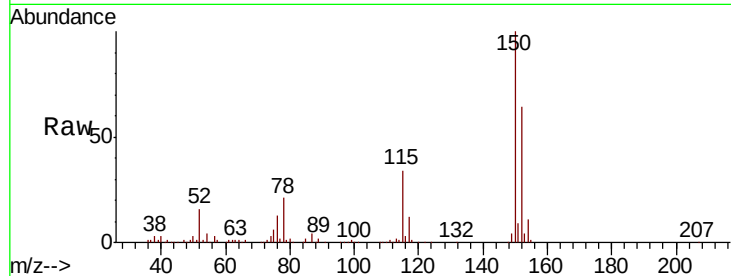
Tot Ion:152 Resp: 228049

Ion Ratio Lower Upper

152 100

115 54.5 27.1 81.2

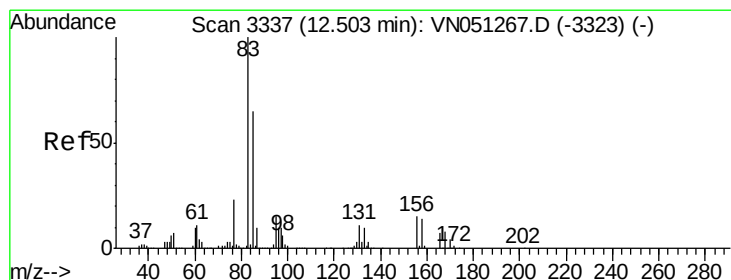
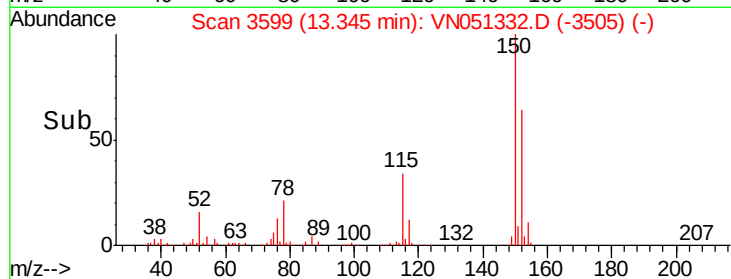
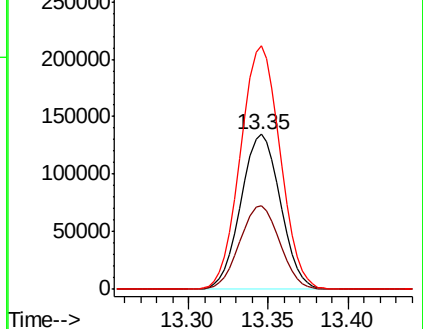
150 157.1 0.0 349.0



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



#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.40 min Scan# 3306

Delta R.T. -0.10 min

Lab File: VN051332.D

Acq: 19 Sep 2018 20:34

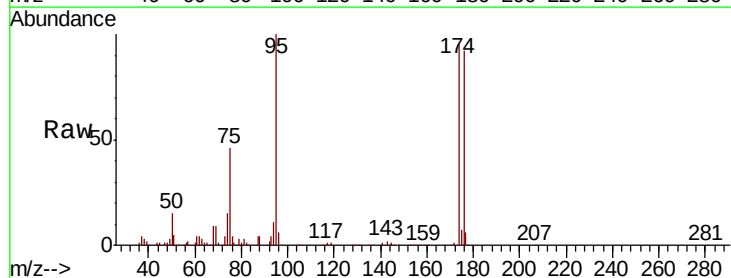
Tgt Ion: 83 Resp: 114

Ion Ratio Lower Upper

83 100

131 317.5 5.5 16.7#

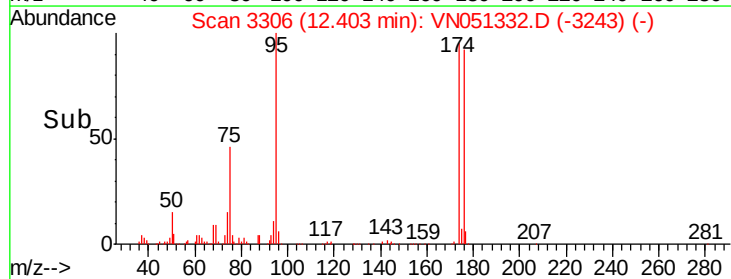
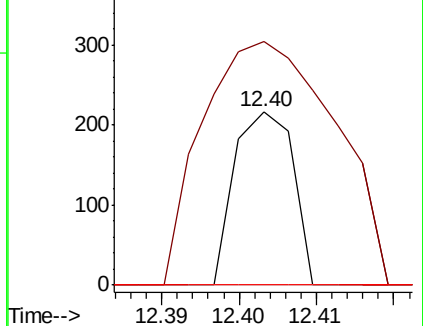
85 0.0 32.3 96.9#

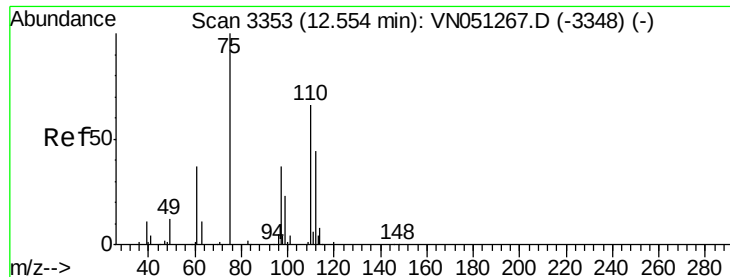


Abundance Ion 82.90 (82.60 to 83.60): VNO

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): VNO





#76

1,2,3-Trichloropropane

Concen: 43.26 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN051332.D

Acq: 19 Sep 2018 20:34

Instrument :

MSVOA_N

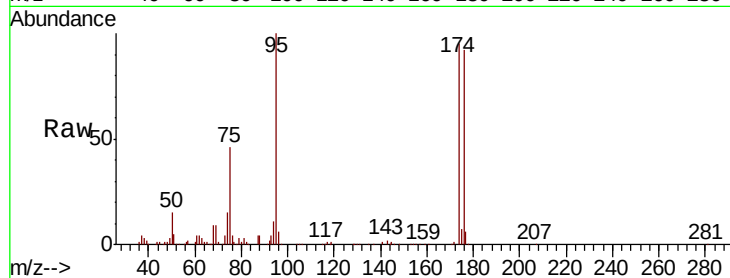
ClientSampleId :

Tot Ion: 75 Resp: 136042

Ion Ratio Lower Upper

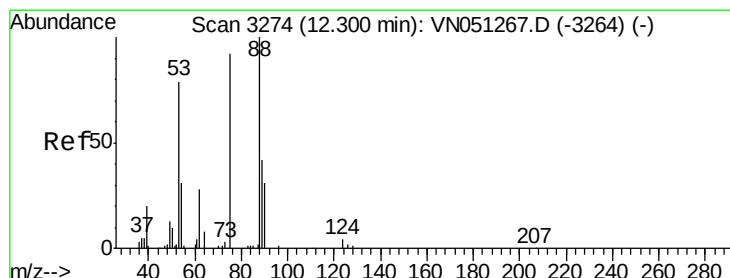
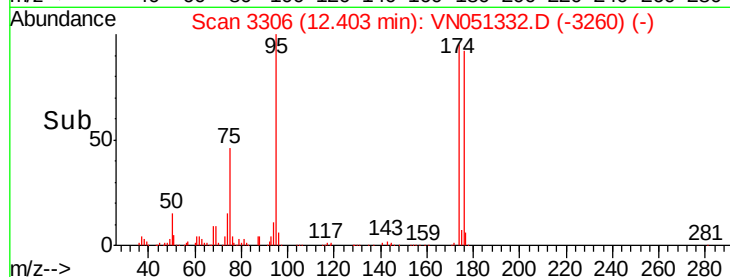
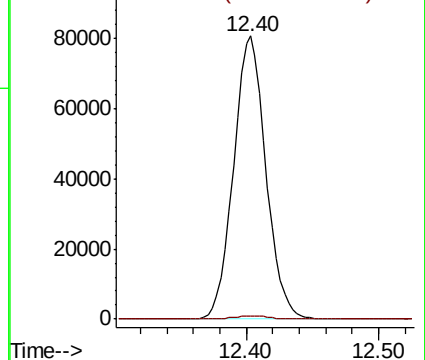
75 100

77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 77.00 (76.70 to 77.70): VNO



#81

trans-1,4-Dichloro-2-butene

Concen: 132.49 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN051332.D

Acq: 19 Sep 2018 20:34

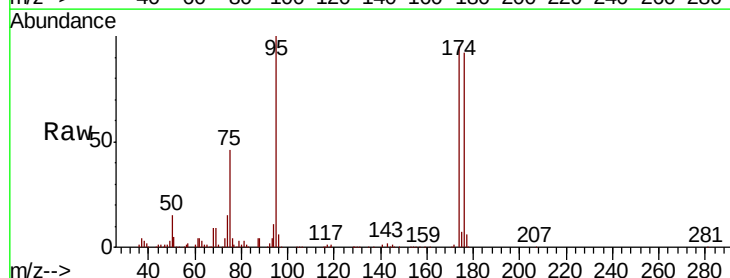
Tgt Ion: 75 Resp: 136042

Ion Ratio Lower Upper

75 100

53 0.2 67.7 101.5#

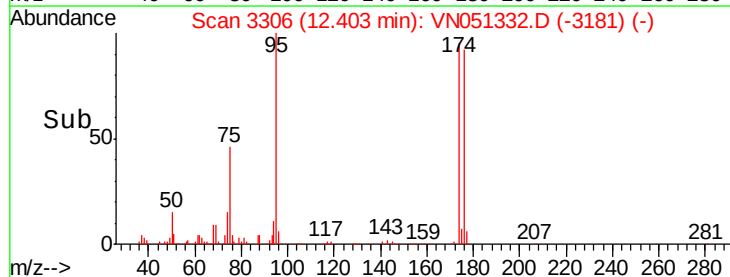
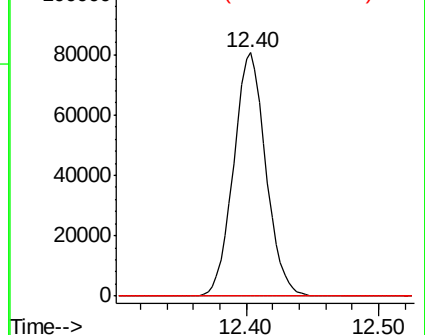
89 0.0 36.9 55.3#

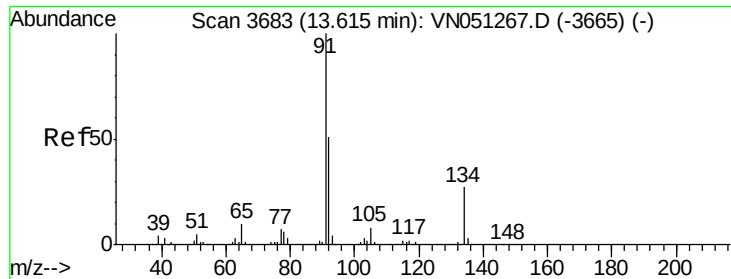


Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO





#89
 n-Butylbenzene
 Concen: 2.05 ug/l
 RT: 13.35 min Scan# 3599
 Delta R.T. -0.27 min
 Lab File: VN051332.D
 Acq: 19 Sep 2018 20:34

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
91	100		
92	0.0	25.8	77.4#
134	0.0	13.7	41.0#

