

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN041719\
 Data File : VN055100.D
 Acq On : 17 Apr 2019 12:38
 Operator : JC/SP
 Sample : K2197-10
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Apr 18 03:02:37 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N041519W.M
 Quant Title : SW846 8260
 QLast Update : Mon Apr 15 12:28:28 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	538805	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	853550	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	691819	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	211759	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	336019	46.92	ug/l	0.00
Spiked Amount			Recovery	=	93.84%	
35) Dibromofluoromethane	7.59	113	275705	48.33	ug/l	0.00
Spiked Amount			Recovery	=	96.66%	
50) Toluene-d8	10.09	98	999057	48.93	ug/l	0.00
Spiked Amount			Recovery	=	97.86%	
62) 4-Bromofluorobenzene	12.40	95	277451	41.80	ug/l	0.00
Spiked Amount			Recovery	=	83.60%	

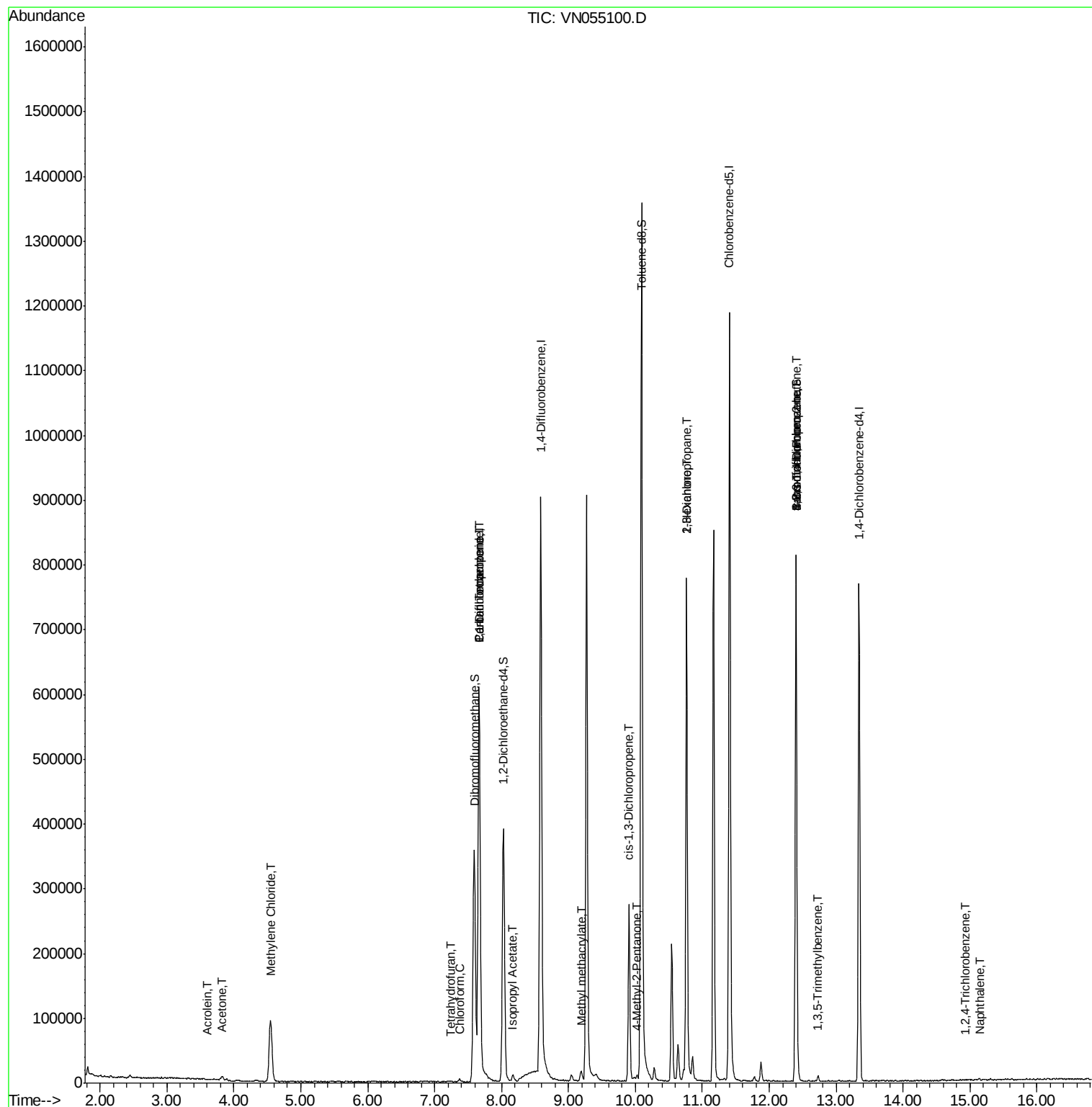
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
13) Acrolein	3.61	56	167	0.344	ug/l #	12
16) Acetone	3.82	43	8558	4.402	ug/l	97
20) Methylene Chloride	4.55	84	65805	9.630	ug/l	97
29) Tetrahydrofuran	7.23	42	1165	0.612	ug/l #	41
30) Chloroform	7.38	83	4262	0.383	ug/l #	76
31) Cyclohexane	7.66	56	11474	Below Cal	#	5
36) 1,1-Dichloropropene	7.67	75	39227	4.875	ug/l #	49
38) Carbon Tetrachloride	7.66	117	48169	6.292	ug/l #	16
43) Isopropyl Acetate	8.17	43	12457	1.234	ug/l	95
48) Methyl methacrylate	9.18	41	6607	1.321	ug/l #	17
51) 4-Methyl-2-Pentanone	10.03	43	6566	1.126	ug/l #	39
54) cis-1,3-Dichloropropene	9.90	75	43706	5.077	ug/l #	65
57) 1,3-Dichloropropane	10.76	76	7717	0.847	ug/l #	43
59) 2-Hexanone	10.76	43	122875	33.548	ug/l #	54
71) Bromoform	12.40	173	2373	0.808	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	142300	37.369	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	3631	0.239	ug/l	97
81) trans-1,4-Dichloro-2-buten	12.40	75	142300	149.434	ug/l #	2
93) 1,2,4-Trichlorobenzene	14.91	180	156	2.723	ug/l #	12
95) Naphthalene	15.13	128	2121	3.342	ug/l #	75

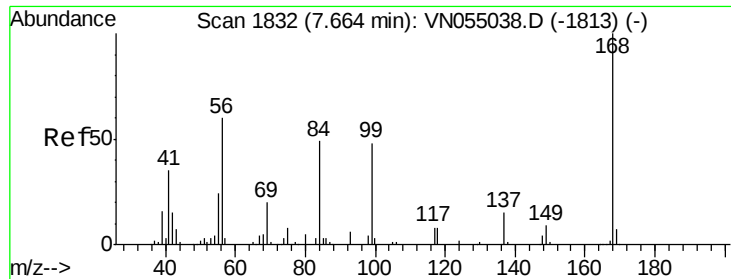
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN055100.D

Acq: 17 Apr 2019 12:38

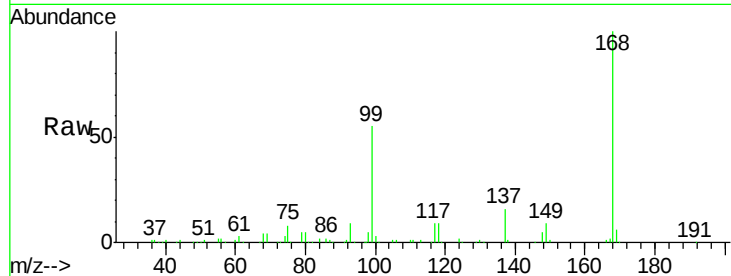
Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:168 Resp: 538805

Ion Ratio Lower Upper

168 100

99 54.6 41.9 62.9



Abundance Ion 167.90 (167.60 to 168.60): VN055100.D (-1739) (-)

Ion 98.90 (98.60 to 99.60): VN055100.D (-1739) (-)

7.67

250000

200000

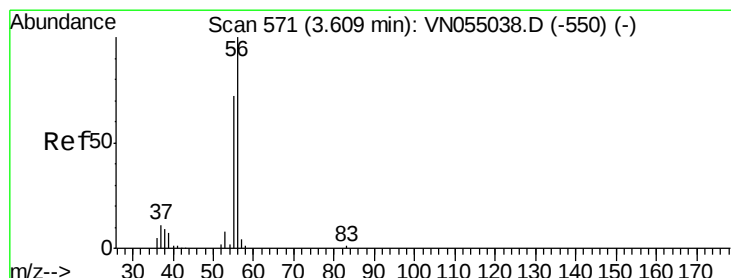
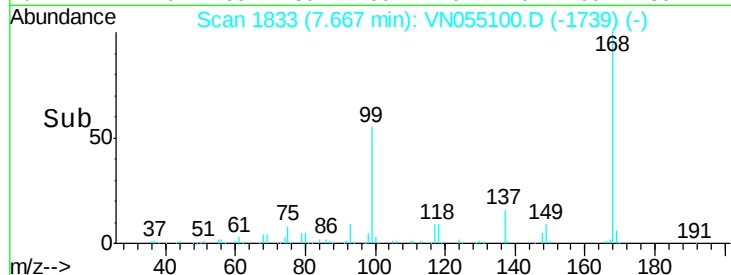
150000

100000

50000

0

Time--> 7.50 7.60 7.70 7.80



#13

Acrolein

Concen: 0.344 ug/l

RT: 3.61 min Scan# 571

Delta R.T. 0.00 min

Lab File: VN055100.D

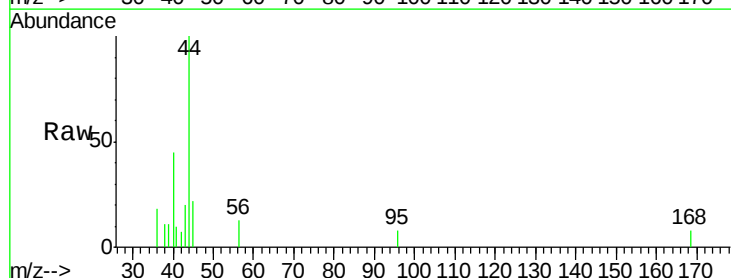
Acq: 17 Apr 2019 12:38

Tgt Ion: 56 Resp: 167

Ion Ratio Lower Upper

56 100

55 0.0 59.5 89.3#



Abundance Ion 56.00 (55.70 to 56.70): VN055100.D (-478) (-)

Ion 55.00 (54.70 to 55.70): VN055100.D (-478) (-)

3.61

300

250

200

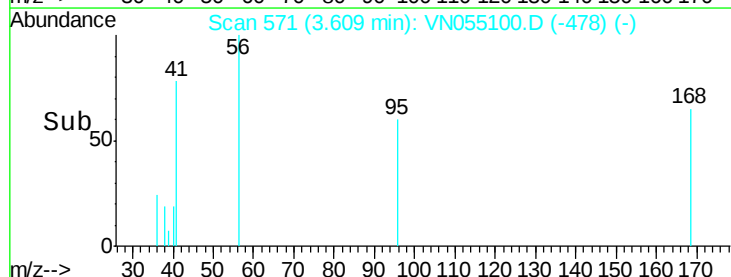
150

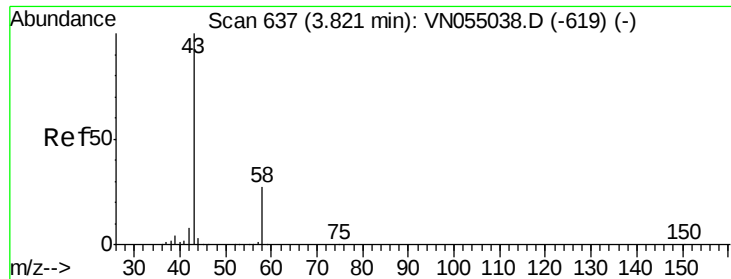
100

50

0

Time--> 3.59 3.60 3.61 3.62





#16

Acetone

Concen: 4.402 ug/l

RT: 3.82 min Scan# 637

Delta R.T. 0.00 min

Lab File: VN055100.D

Acq: 17 Apr 2019 12:38

Instrument :

MSVOA_N

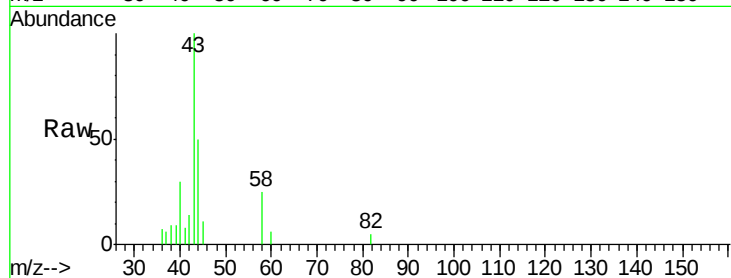
ClientSampleId :

Tot Ion: 43 Resp: 8558

Ion Ratio Lower Upper

43 100

58 27.6 20.9 31.3



Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 58.00 (57.70 to 58.70): VNO

3.82

4000

3000

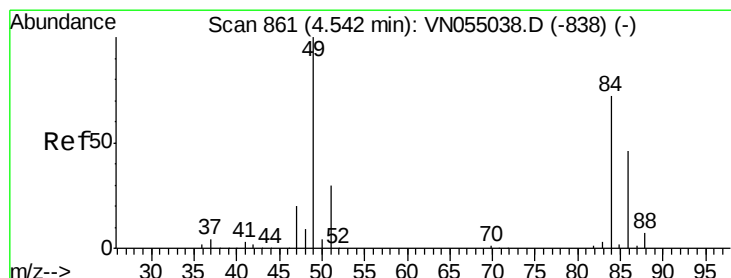
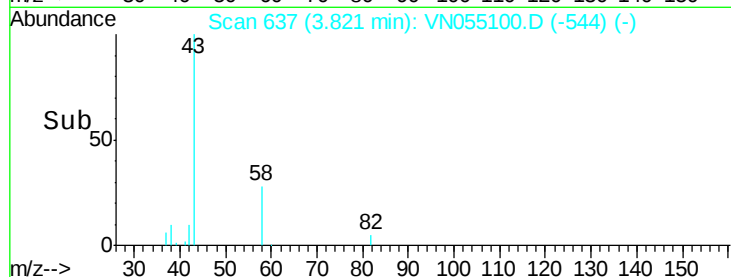
2000

1000

0

Time-->

3.75 3.80 3.85 3.90



#20

Methylene Chloride

Concen: 9.630 ug/l

RT: 4.55 min Scan# 864

Delta R.T. 0.01 min

Lab File: VN055100.D

Acq: 17 Apr 2019 12:38

Tgt Ion: 84 Resp: 65805

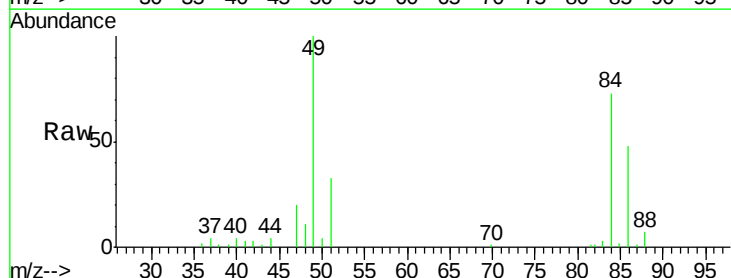
Ion Ratio Lower Upper

84 100

49 137.4 109.4 164.2

51 44.8 32.2 48.4

86 65.7 49.3 73.9



Abundance Ion 83.90 (83.60 to 84.60): VNO

Ion 48.90 (48.60 to 49.60): VNO

Ion 50.90 (50.60 to 51.60): VNO

Ion 85.90 (85.60 to 86.60): VNO

40000

30000

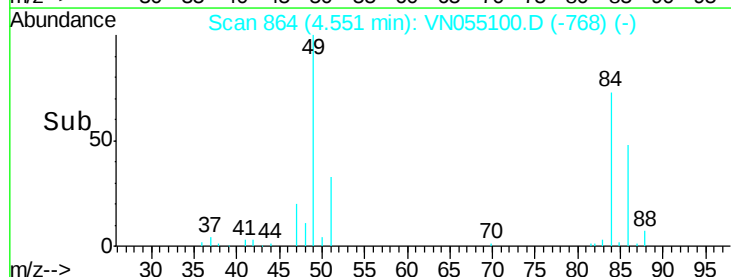
20000

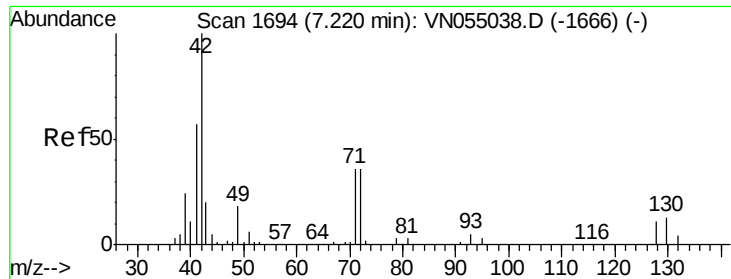
10000

0

Time-->

4.50 4.55 4.60

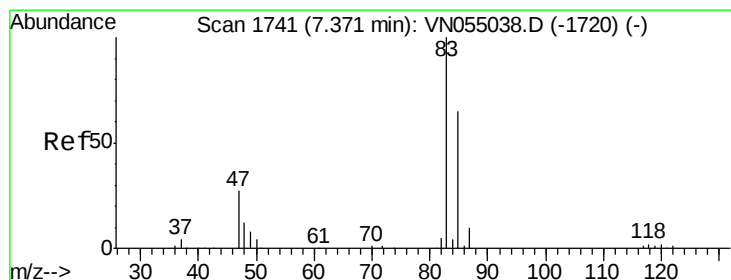
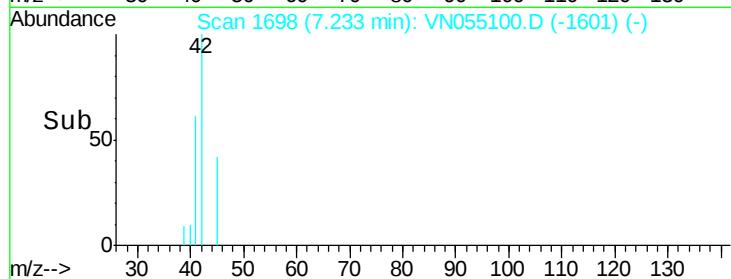
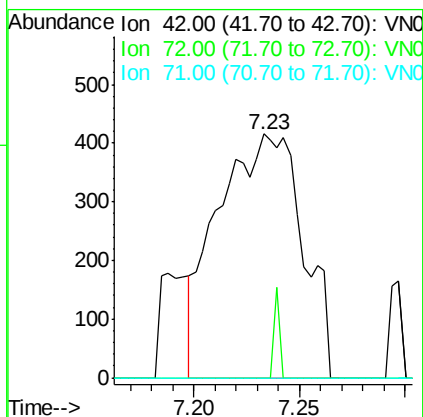
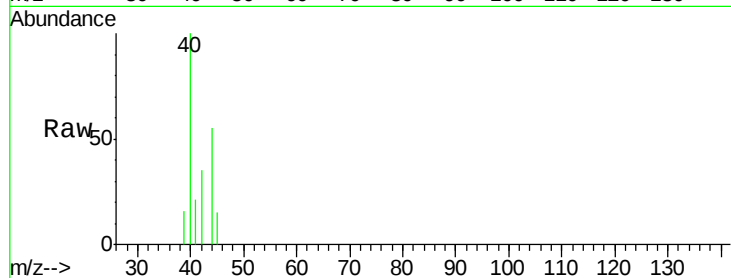




#29
Tetrahydrofuran
Concen: 0.612 ug/l
RT: 7.23 min Scan# 1698
Delta R.T. 0.01 min
Lab File: VN055100.D
Acq: 17 Apr 2019 12:38

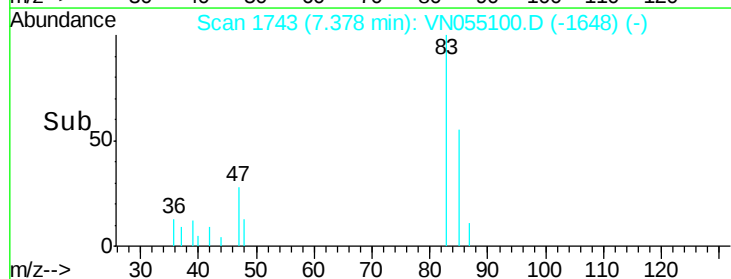
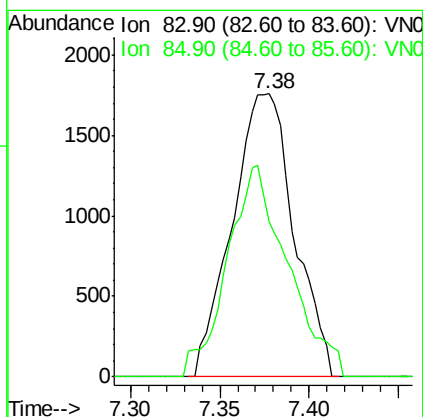
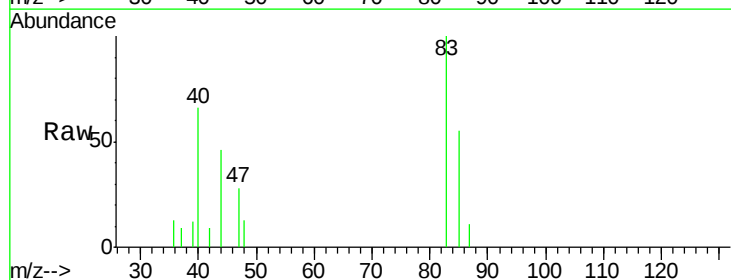
Instrument :
MSVOA_N
ClientSampled :

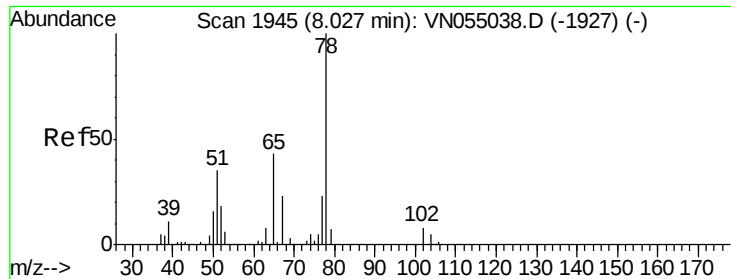
Tot Ion: 42 Resp: 1165
Ion Ratio Lower Upper
42 100
72 2.5 29.4 44.0#
71 0.0 27.8 41.6#



#30
Chloroform
Concen: 0.383 ug/l
RT: 7.38 min Scan# 1743
Delta R.T. 0.01 min
Lab File: VN055100.D
Acq: 17 Apr 2019 12:38

Tgt Ion: 83 Resp: 4262
Ion Ratio Lower Upper
83 100
85 45.9 51.8 77.6#

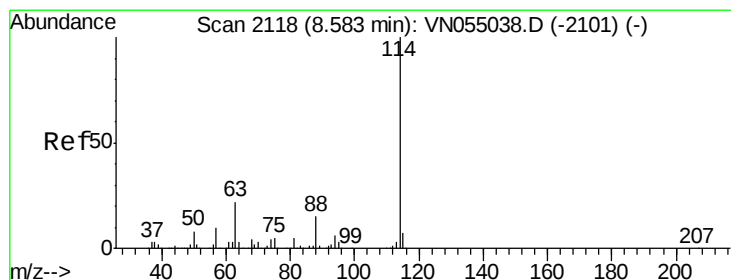
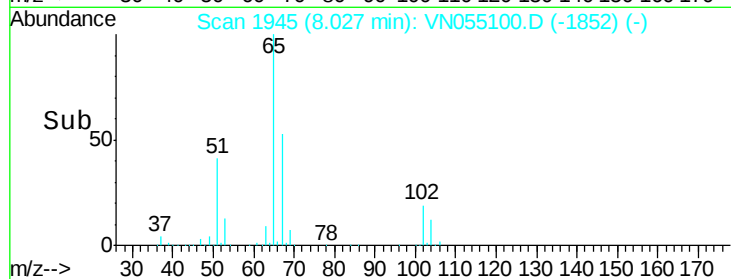
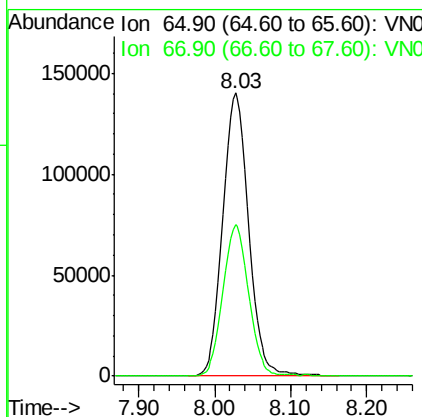
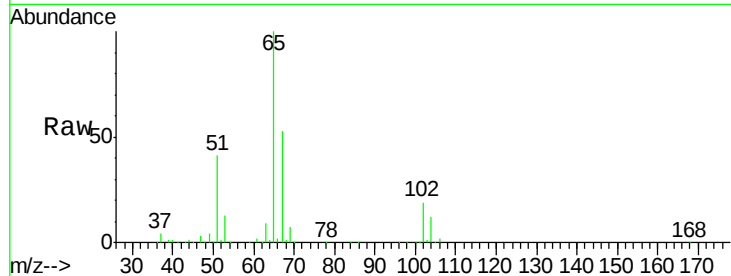




#33
 1,2-Dichloroethane-d4
 Concen: 46.917 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN055100.D
 Acq: 17 Apr 2019 12:38

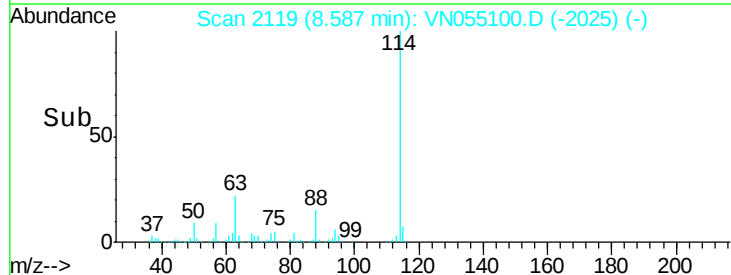
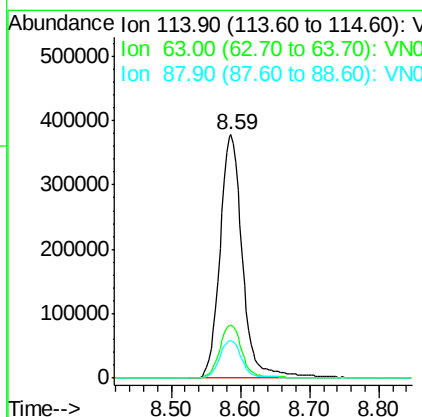
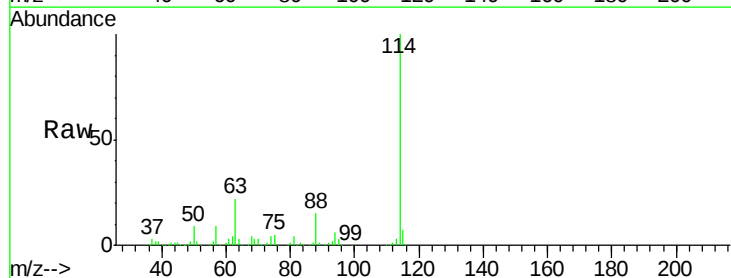
Instrument :
 MSVOA_N
 ClientSampleId :

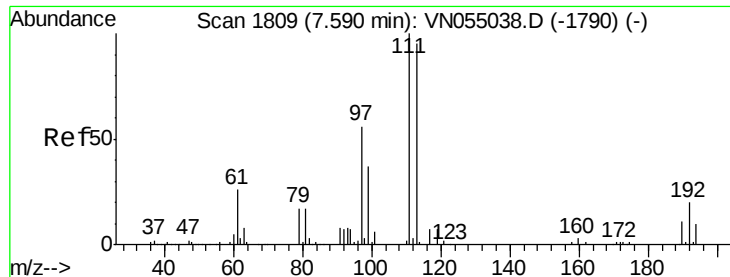
Tot Ion: 65 Resp: 336019
 Ion Ratio Lower Upper
 65 100
 67 53.0 0.0 106.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN055100.D
 Acq: 17 Apr 2019 12:38

Tgt Ion: 114 Resp: 853550
 Ion Ratio Lower Upper
 114 100
 63 22.0 0.0 45.2
 88 15.4 0.0 31.8

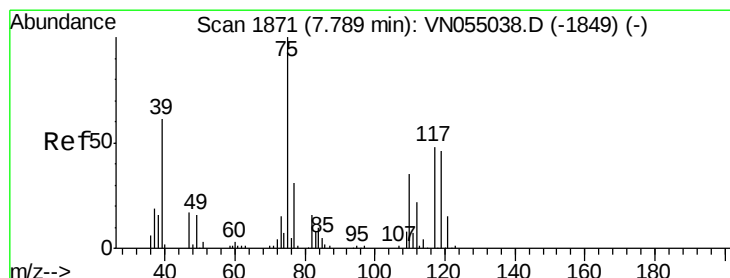
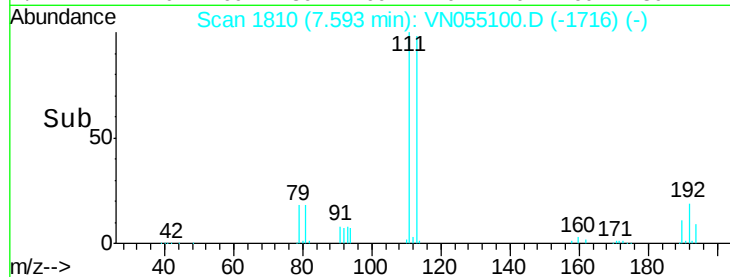
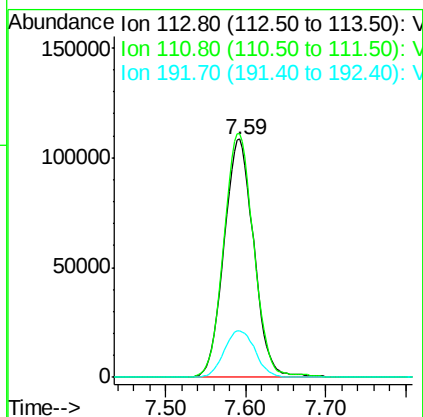
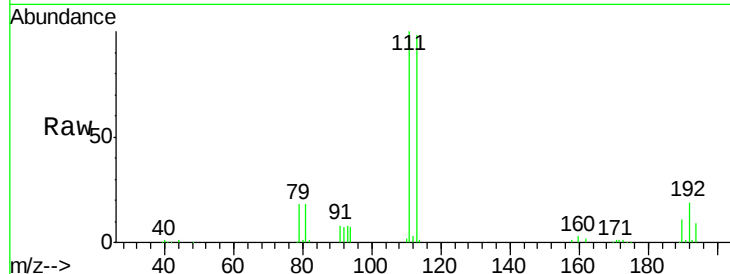




#35
 Dibromofluoromethane
 Concen: 48.332 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN055100.D
 Acq: 17 Apr 2019 12:38

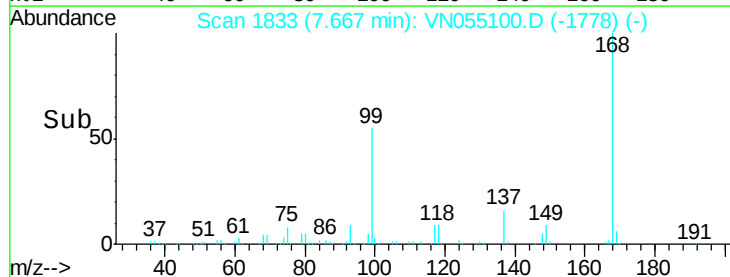
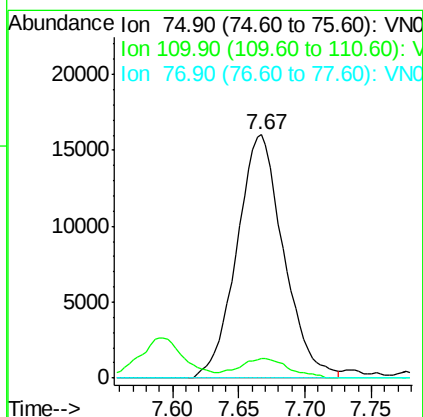
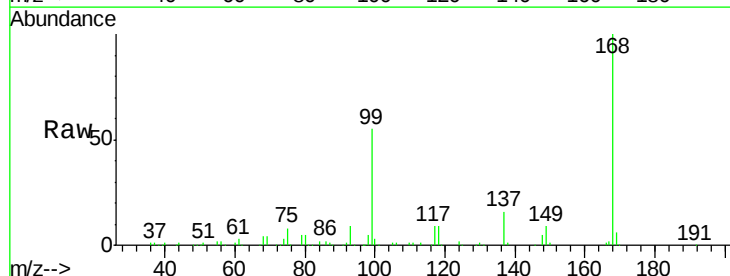
Instrument :
 MSVOA_N
 ClientSampled :

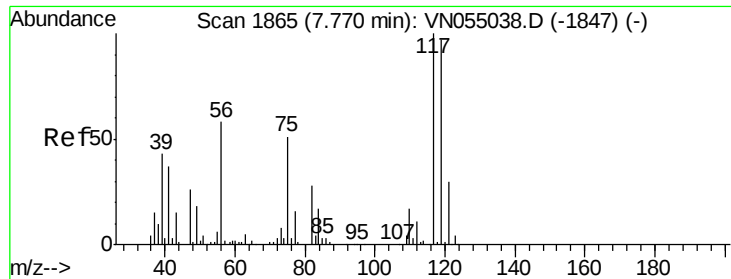
Tot Ion	Ratio	Lower	Upper
113	100		
111	102.7	82.1	123.1
192	20.3	16.5	24.7



#36
 1,1-Dichloropropene
 Concen: 4.875 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.12 min
 Lab File: VN055100.D
 Acq: 17 Apr 2019 12:38

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.6	17.5	52.5#
77	0.0	24.9	37.3#

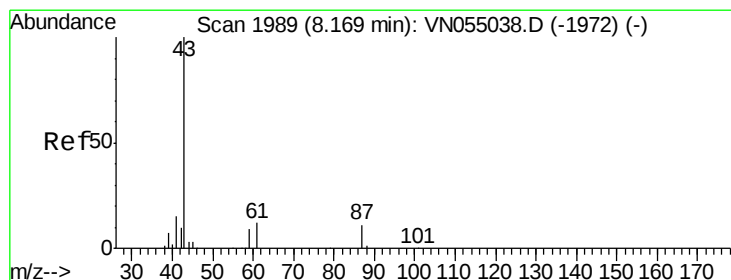
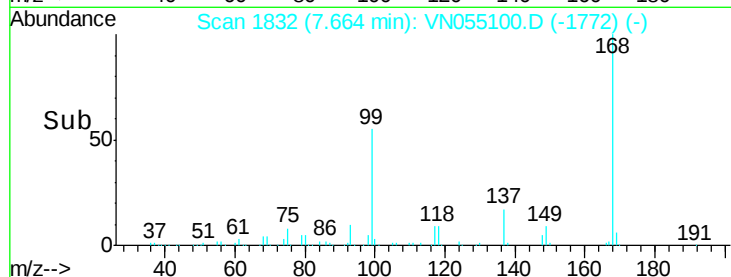
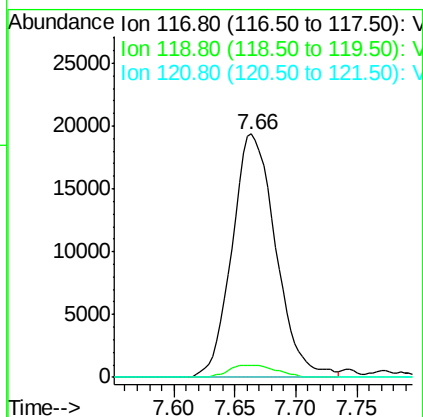
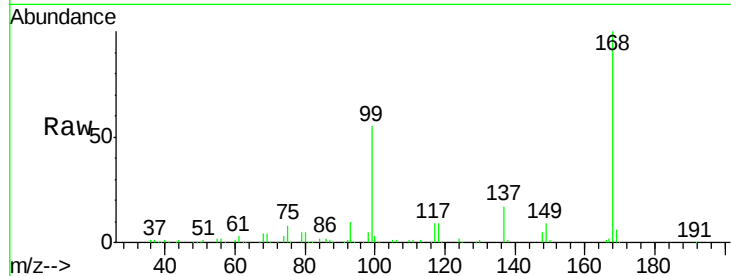




#38
Carbon Tetrachloride
Concen: 6.292 ug/l
RT: 7.66 min Scan# 1832
Delta R.T. -0.11 min
Lab File: VN055100.D
Acq: 17 Apr 2019 12:38

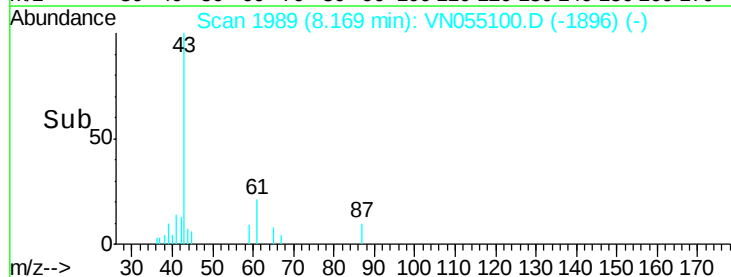
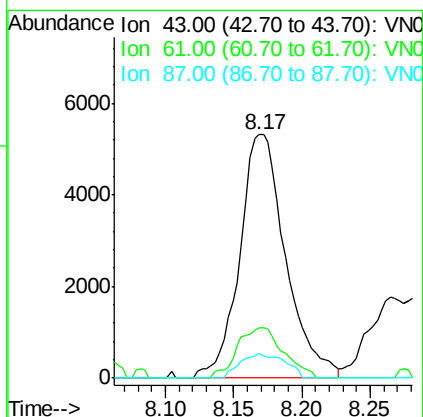
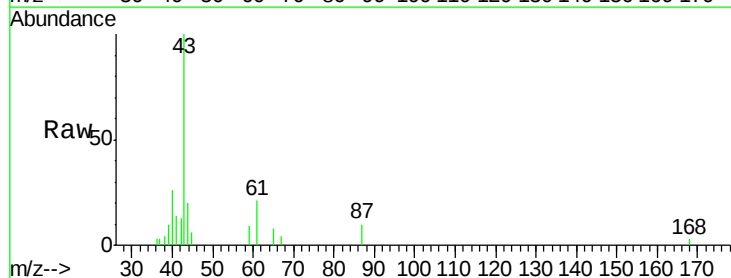
Instrument :
MSVOA_N
ClientSampled :

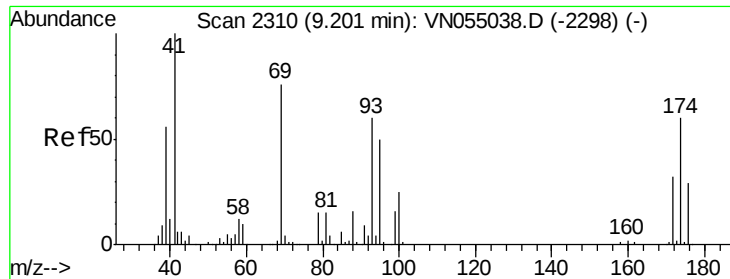
Tot Ion:117 Resp: 48169
Ion Ratio Lower Upper
117 100
119 5.1 76.3 114.5#
121 0.0 23.9 35.9#



#43
Isopropyl Acetate
Concen: 1.234 ug/l
RT: 8.17 min Scan# 1989
Delta R.T. 0.00 min
Lab File: VN055100.D
Acq: 17 Apr 2019 12:38

Tgt Ion: 43 Resp: 12457
Ion Ratio Lower Upper
43 100
61 20.9 14.3 21.5
87 9.7 8.6 13.0

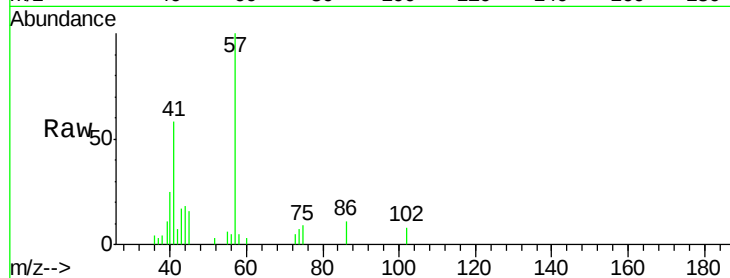




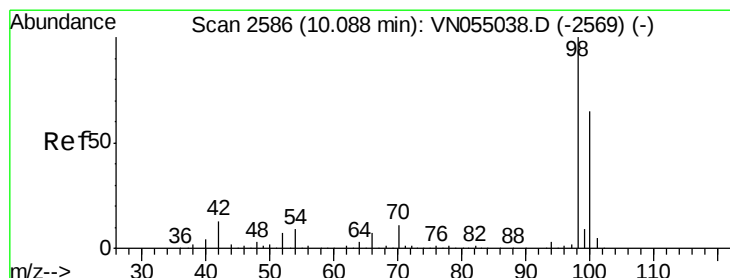
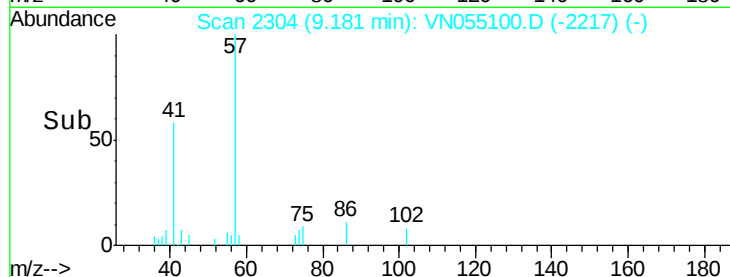
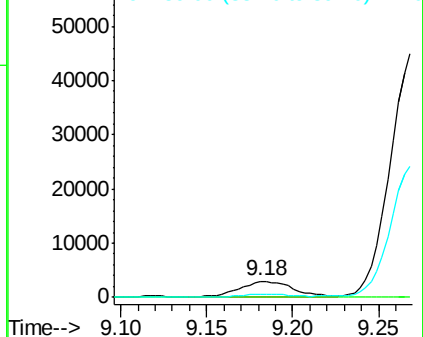
#48
Methvl methacrylate
Concen: 1.321 ug/l
RT: 9.18 min Scan# 2304
Delta R.T. -0.02 min
Lab File: VN055100.D
Acq: 17 Apr 2019 12:38

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 41 Resp: 6607
Ion Ratio Lower Upper
41 100
69 0.0 60.5 90.7#
39 0.0 43.9 65.9#

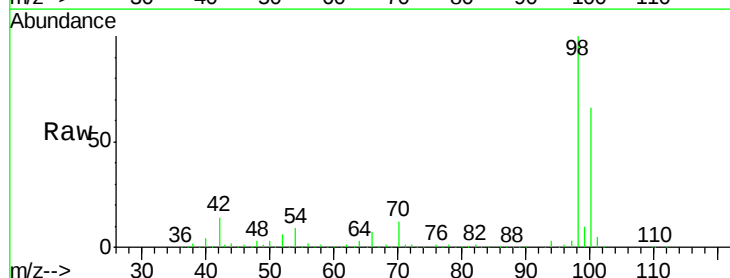


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

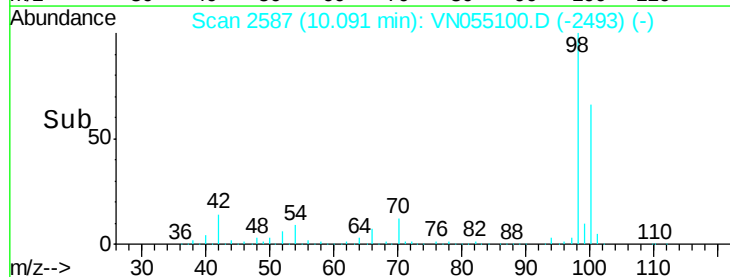
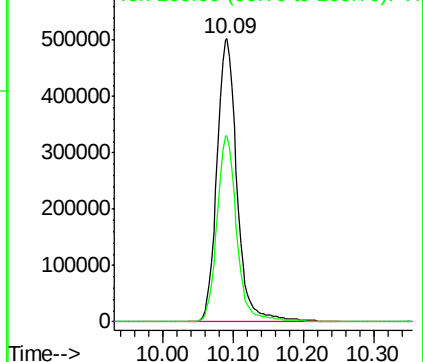


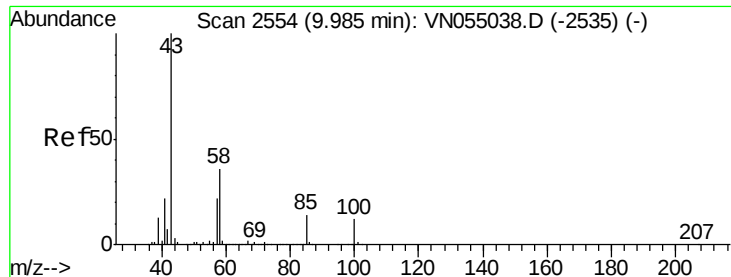
#50
Toluene-d8
Concen: 48.934 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN055100.D
Acq: 17 Apr 2019 12:38

Tgt Ion: 98 Resp: 999057
Ion Ratio Lower Upper
98 100
100 64.5 51.1 76.7



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: 1.126 ug/l

RT: 10.03 min Scan# 2567

Delta R.T. 0.04 min

Lab File: VN055100.D

Acq: 17 Apr 2019 12:38

Instrument :

MSVOA_N

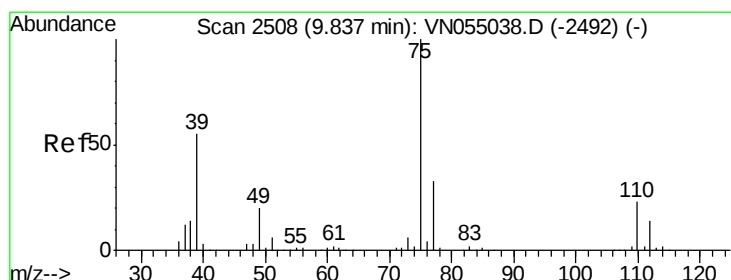
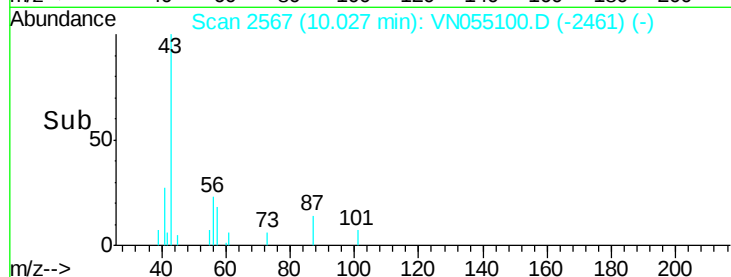
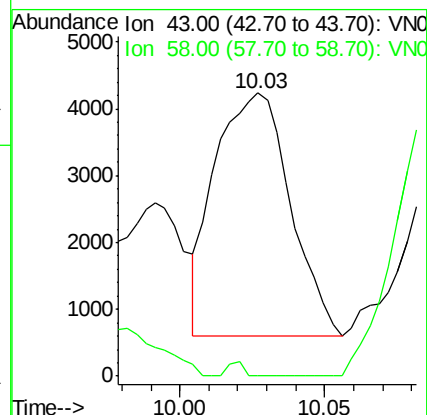
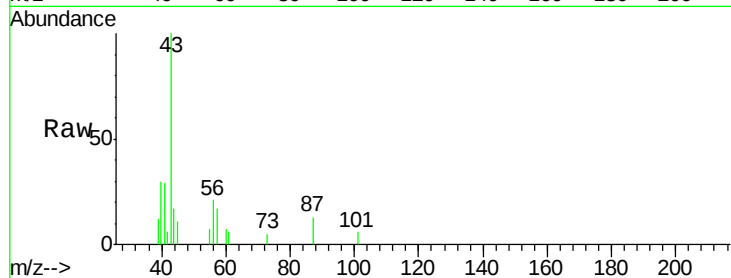
ClientSampleId :

Tot Ion: 43 Resp: 6566

Ion Ratio Lower Upper

43 100

58 0.0 29.0 43.4#



#54

cis-1,3-Dichloropropene

Concen: 5.077 ug/l

RT: 9.90 min Scan# 2529

Delta R.T. 0.07 min

Lab File: VN055100.D

Acq: 17 Apr 2019 12:38

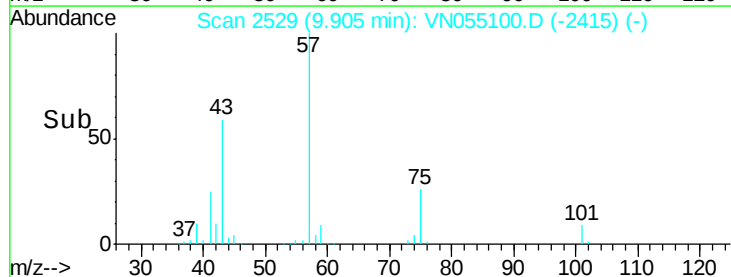
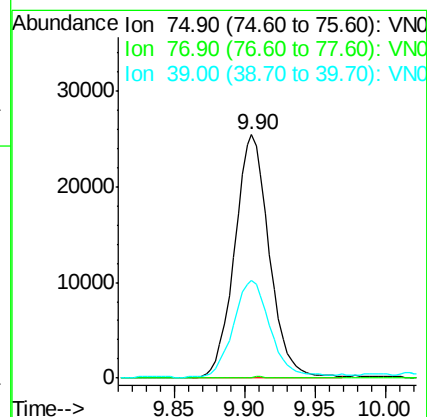
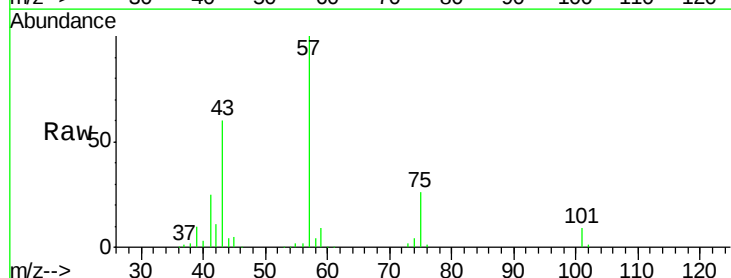
Tgt Ion: 75 Resp: 43706

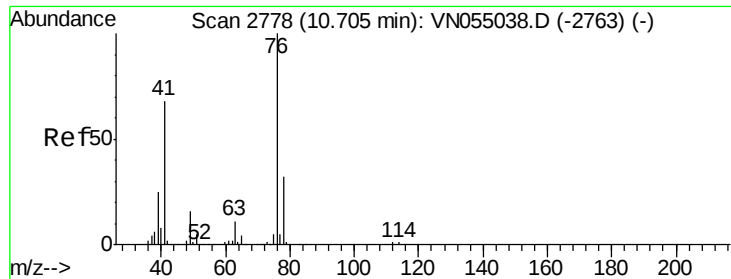
Ion Ratio Lower Upper

75 100

77 0.0 25.8 38.6#

39 39.3 43.8 65.8#

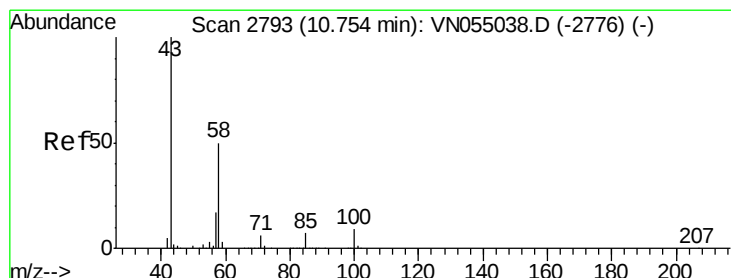
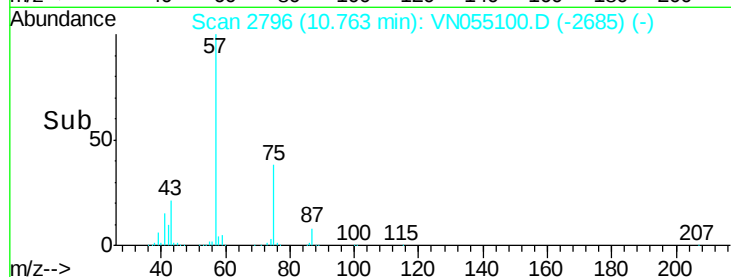
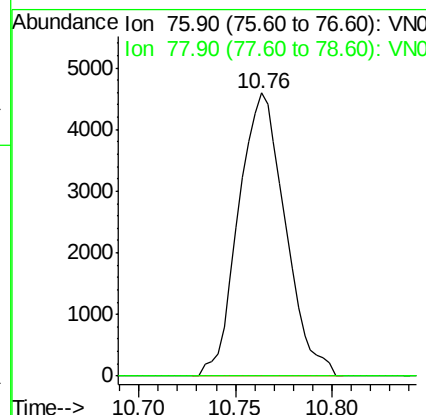
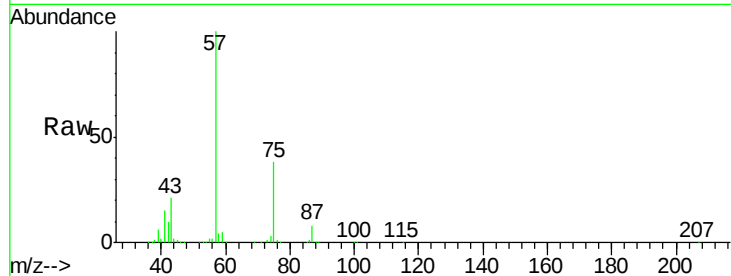




#57
 1,3-Dichloropropane
 Concen: 0.847 ug/l
 RT: 10.76 min Scan# 2796
 Delta R.T. 0.06 min
 Lab File: VN055100.D
 Acq: 17 Apr 2019 12:38

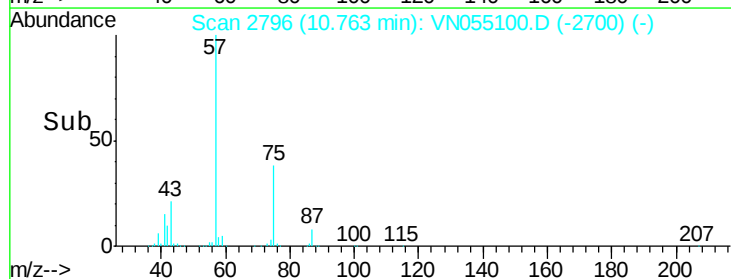
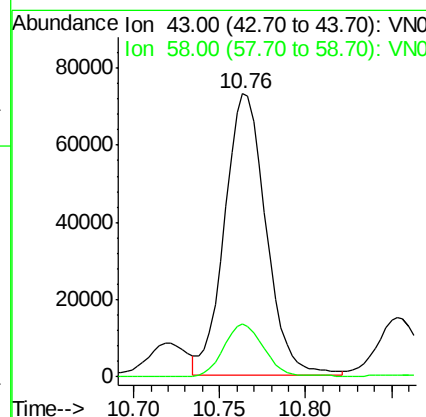
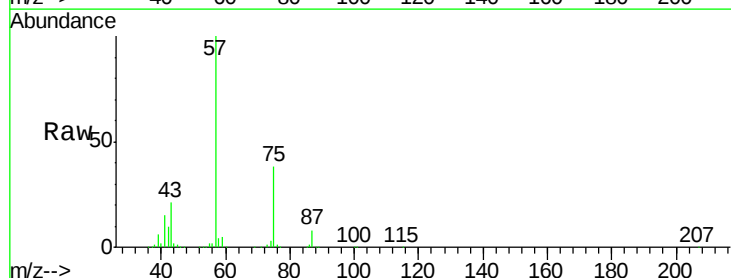
Instrument :
 MSVOA_N
 ClientSampleId :

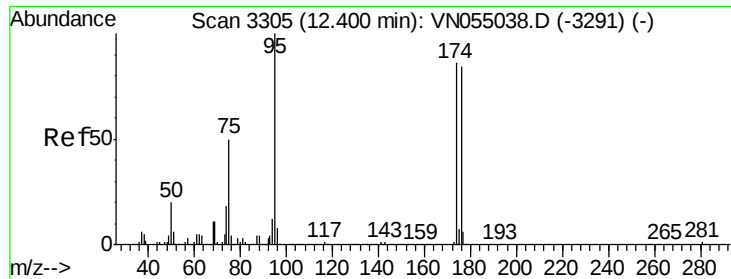
Tot Ion: 76 Resp: 7717
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.6 38.4#



#59
 2-Hexanone
 Concen: 33.548 ug/l
 RT: 10.76 min Scan# 2796
 Delta R.T. 0.01 min
 Lab File: VN055100.D
 Acq: 17 Apr 2019 12:38

Tgt Ion: 43 Resp: 122875
 Ion Ratio Lower Upper
 43 100
 58 18.2 25.1 75.2#





#62

4-Bromofluorobenzene

Concen: 41.802 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN055100.D

Acq: 17 Apr 2019 12:38

Instrument :

MSVOA_N

ClientSampled :

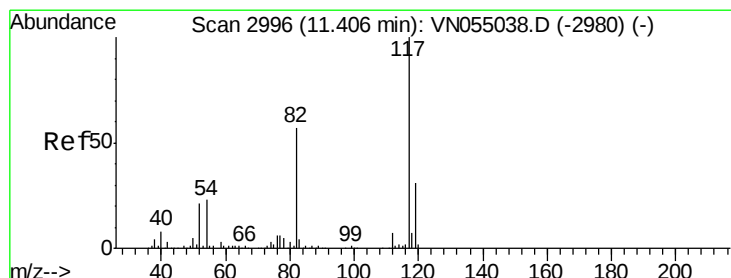
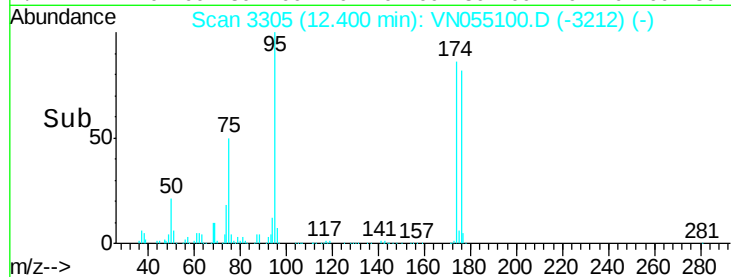
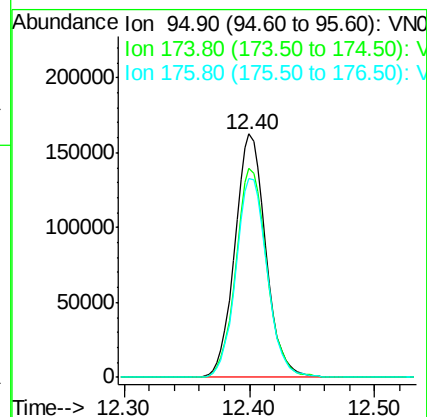
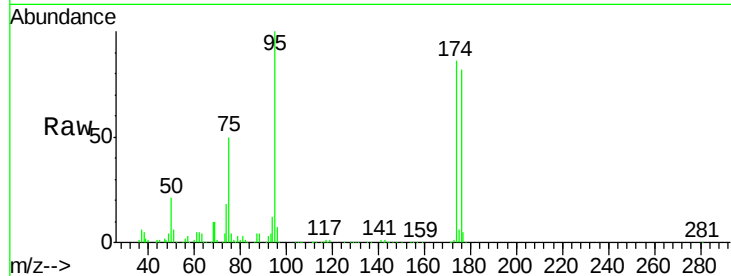
Tot Ion: 95 Resp: 277451

Ion Ratio Lower Upper

95 100

174 85.9 0.0 174.4

176 82.6 0.0 166.8



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN055100.D

Acq: 17 Apr 2019 12:38

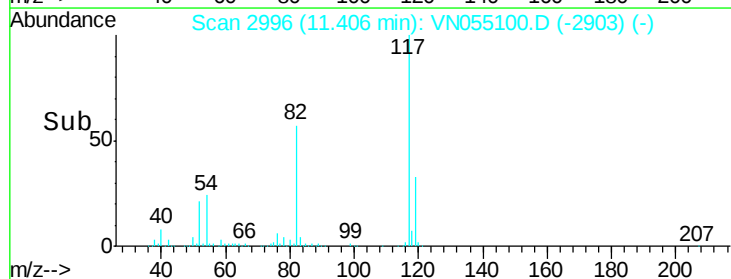
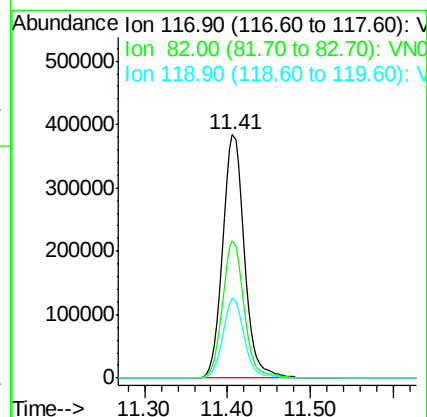
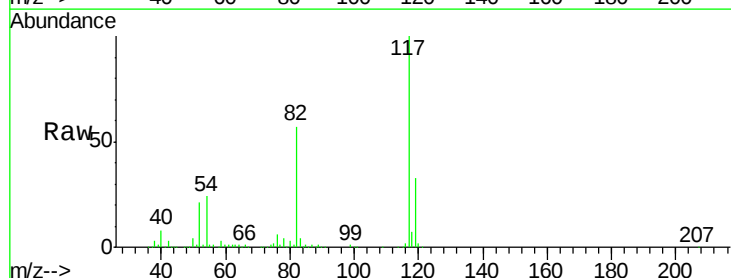
Tgt Ion: 117 Resp: 691819

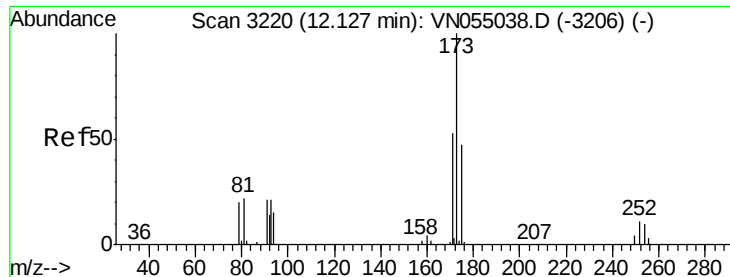
Ion Ratio Lower Upper

117 100

82 56.7 44.6 66.8

119 32.6 25.5 38.3

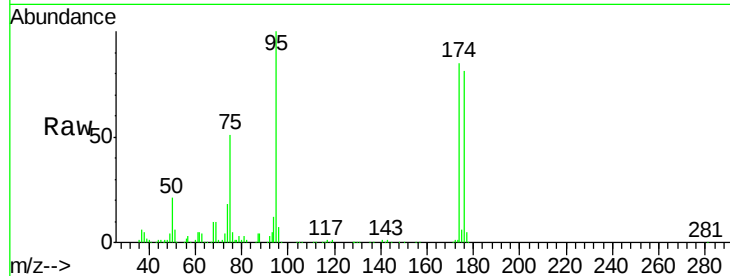




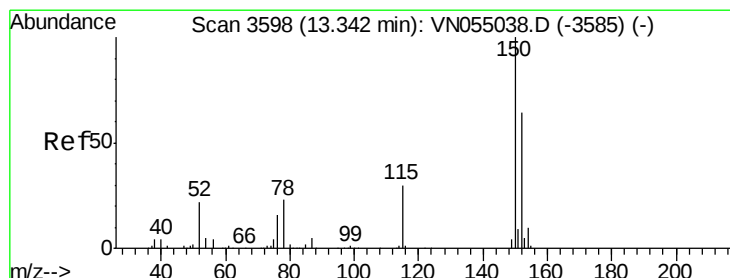
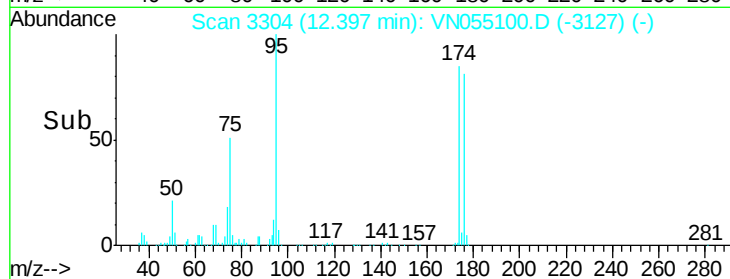
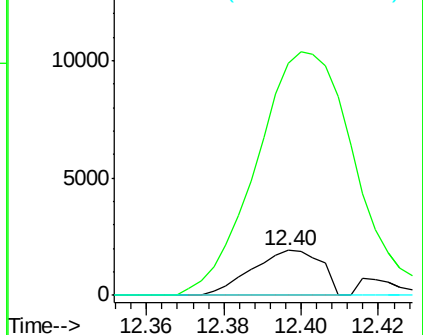
#71
Bromoform
Concen: 0.808 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. 0.27 min
Lab File: VN055100.D
Acq: 17 Apr 2019 12:38

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:173 Resp: 2373
Ion Ratio Lower Upper
173 100
175 675.9 24.3 73.0#
254 0.0 0.1 0.1#

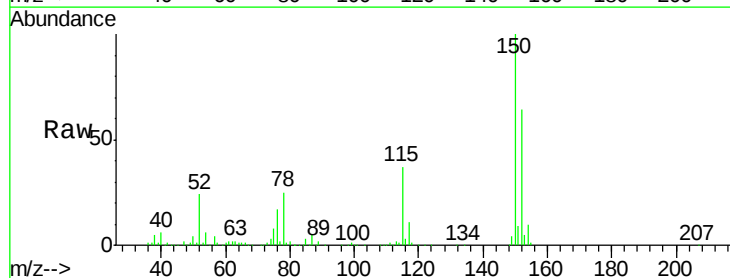


Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V

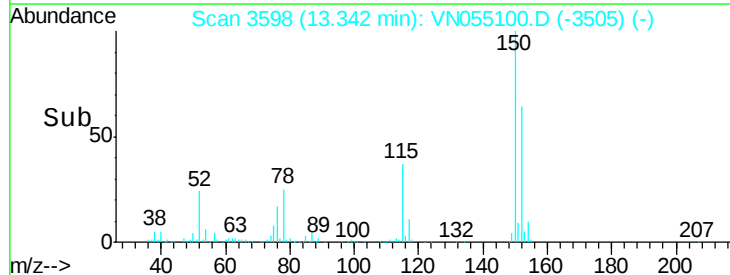
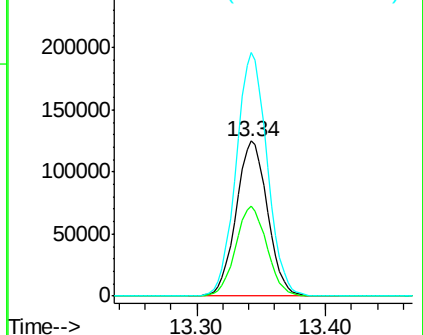


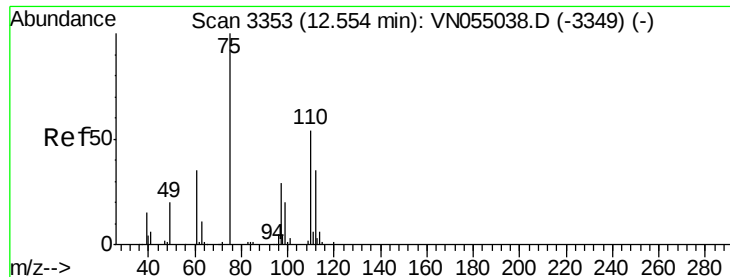
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3598
Delta R.T. 0.00 min
Lab File: VN055100.D
Acq: 17 Apr 2019 12:38

Tgt Ion:152 Resp: 211759
Ion Ratio Lower Upper
152 100
115 57.5 28.5 85.6
150 155.4 0.0 347.2



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





#76

1,2,3-Trichloropropane

Concen: 37.369 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN055100.D

Acq: 17 Apr 2019 12:38

Instrument :

MSVOA_N

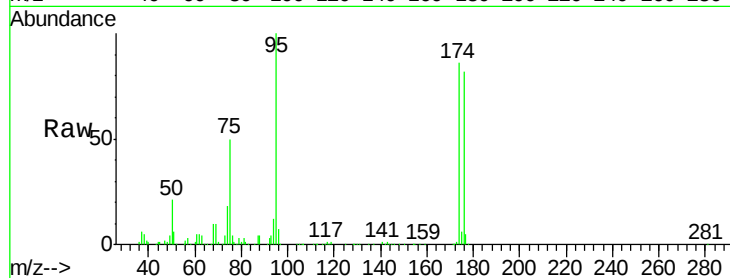
ClientSampleId :

Tot Ion: 75 Resp: 142300

Ion Ratio Lower Upper

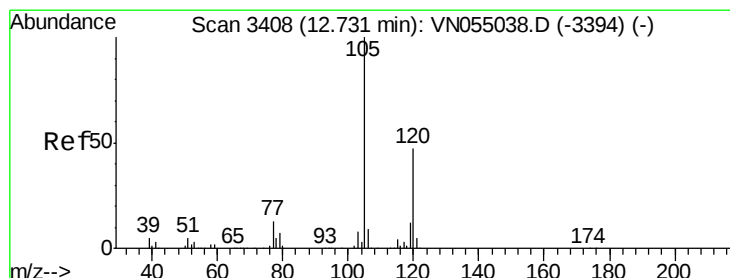
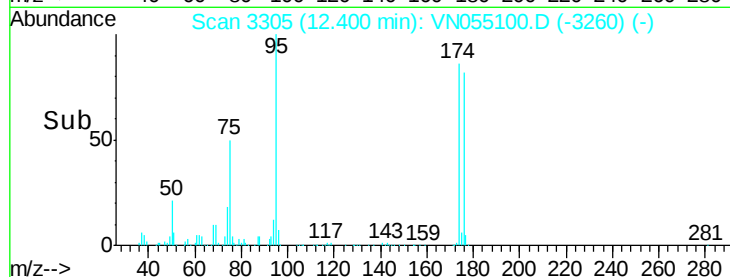
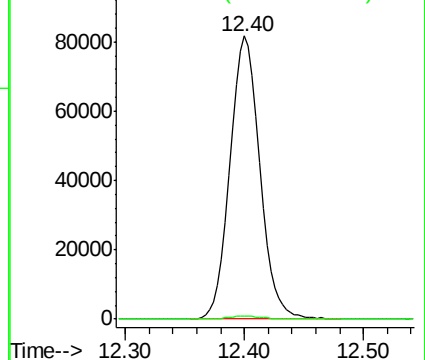
75 100

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



#80

1,3,5-Trimethylbenzene

Concen: 0.239 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. 0.00 min

Lab File: VN055100.D

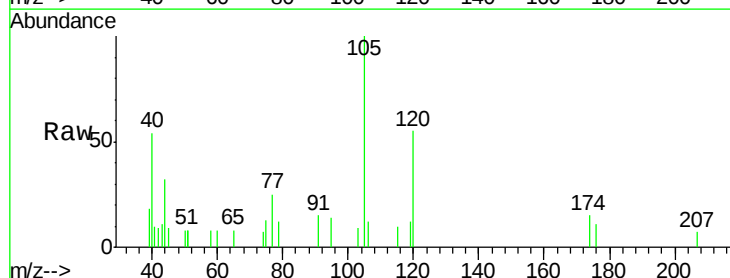
Acq: 17 Apr 2019 12:38

Tgt Ion:105 Resp: 3631

Ion Ratio Lower Upper

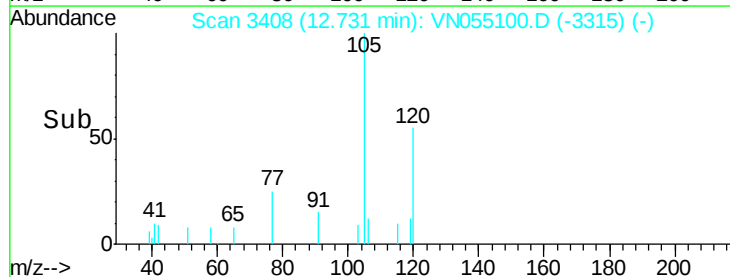
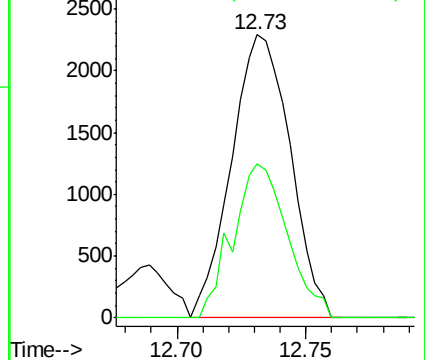
105 100

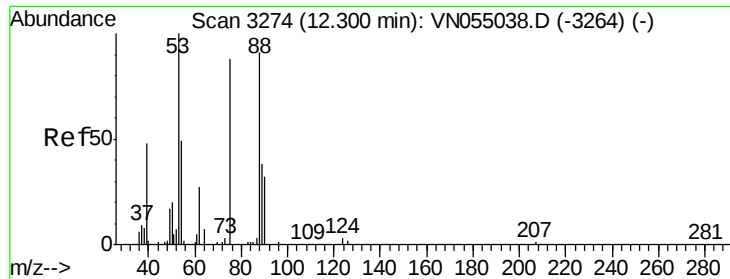
120 50.7 24.3 72.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 149.434 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN055100.D

Acq: 17 Apr 2019 12:38

Instrument :

MSVOA_N

ClientSampled :

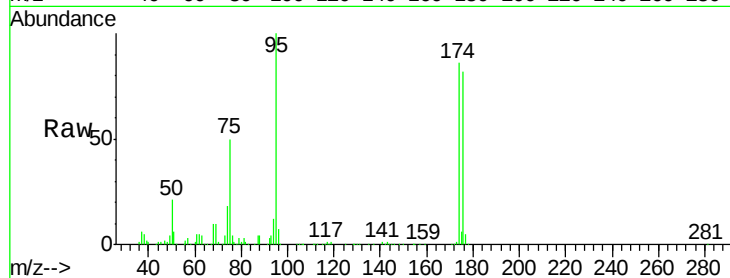
Tot Ion: 75 Resp: 142300

Ion Ratio Lower Upper

75 100

53 0.0 96.3 144.5#

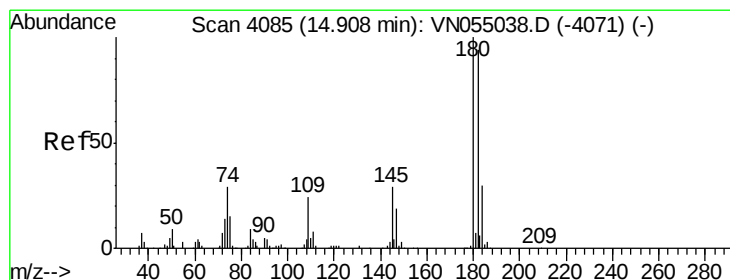
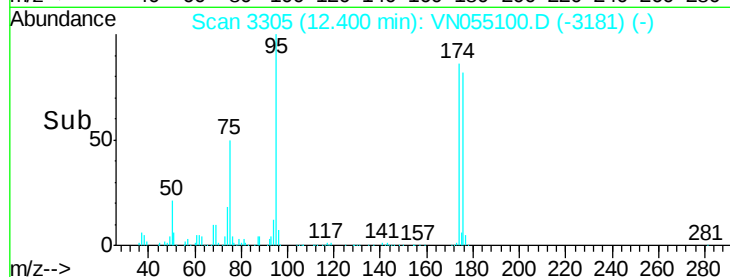
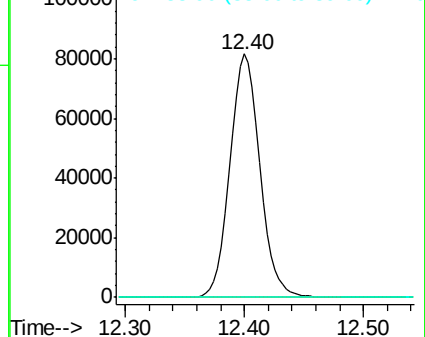
89 0.0 38.6 57.8#



Abundance Ion 74.90 (74.60 to 75.60): VN055100.D (-3181) (-)

Ion 53.00 (52.70 to 53.70): VN055100.D (-3181) (-)

Ion 88.90 (88.60 to 89.60): VN055100.D (-3181) (-)



#93

1,2,4-Trichlorobenzene

Concen: 2.723 ug/l

RT: 14.91 min Scan# 4087

Delta R.T. 0.01 min

Lab File: VN055100.D

Acq: 17 Apr 2019 12:38

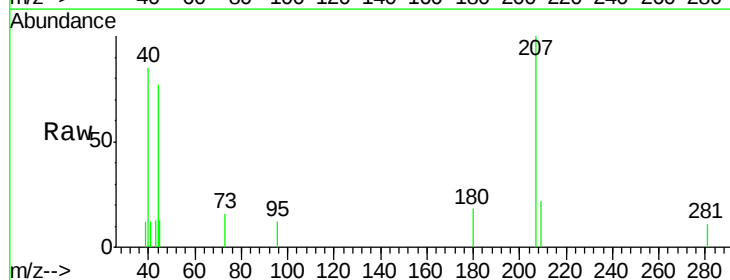
Tgt Ion: 180 Resp: 156

Ion Ratio Lower Upper

180 100

182 0.0 47.5 142.6#

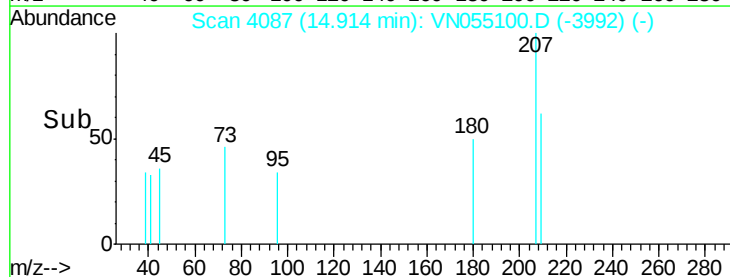
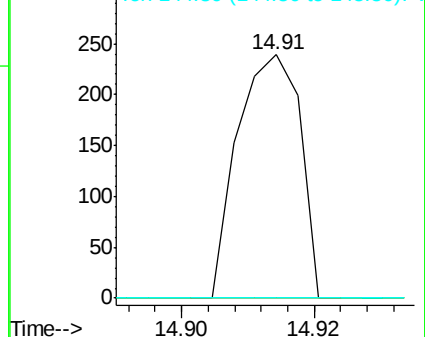
145 0.0 14.2 42.8#

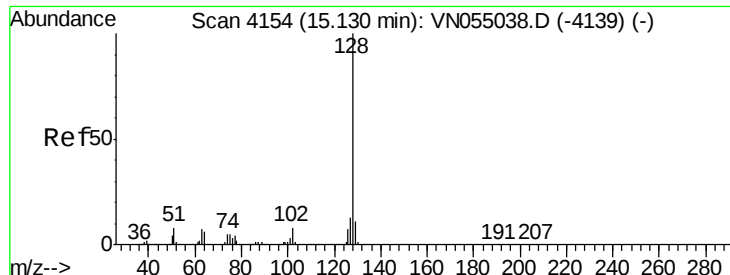


Abundance Ion 179.80 (179.50 to 180.50): VN055100.D (-3992) (-)

Ion 181.80 (181.50 to 182.50): VN055100.D (-3992) (-)

Ion 144.80 (144.50 to 145.50): VN055100.D (-3992) (-)





#95

Naphthalene

Concen: 3.342 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

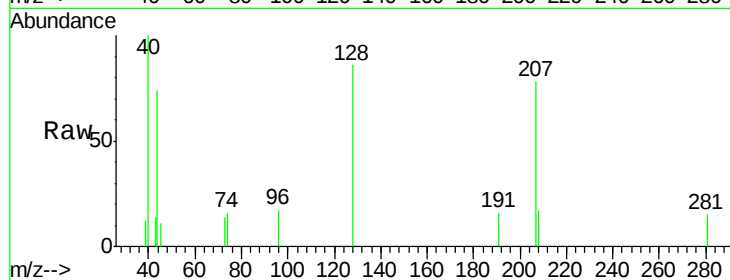
Lab File: VN055100.D

Acq: 17 Apr 2019 12:38

Instrument :

MSVOA_N

ClientSampleId :



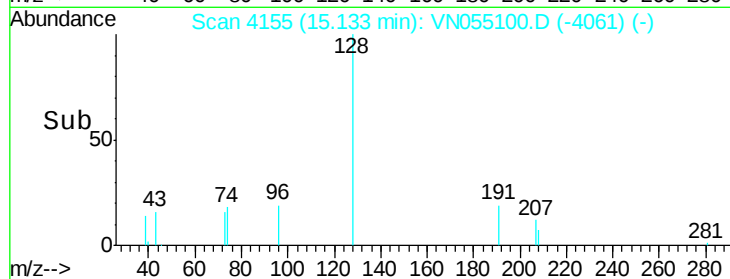
Tot Ion:128 Resp: 2121

Ion Ratio Lower Upper

128 100

127 0.0 10.1 15.1#

129 4.7 8.8 13.2#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

