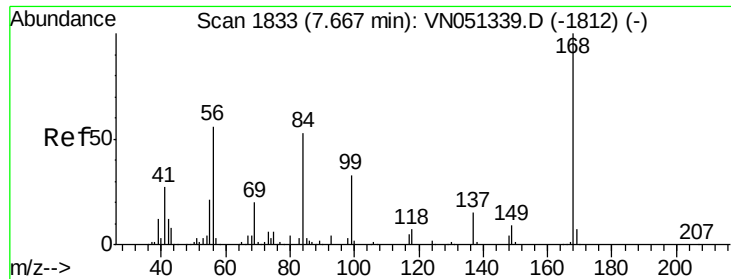


Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092218\
 Data File : VN051380.D
 Acq On : 21 Sep 2018 19:52
 Operator : MD\SY
 Sample : PB113086ZHE#11
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 17 Sample Multiplier: 1

Quant Time: Sep 21 23:04:42 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N092018W.M
 Quant Title : SW846 8260
 QLast Update : Fri Sep 21 04:23:57 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	753671	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1107882	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	927334	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	353616	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.03	65	420072	51.42	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.84%	
35) Dibromofluoromethane	7.59	113	416260	46.49	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.98%	
50) Toluene-d8	10.09	98	1474748	42.85	ug/l	0.00
Spiked Amount	50.000		Recovery	=	85.70%	
62) 4-Bromofluorobenzene	12.40	95	407250	36.37	ug/l	0.00
Spiked Amount	50.000		Recovery	=	72.74%	
Target Compounds						
					Qvalue	
3) Chloromethane	2.06	50	1175	Below Cal		91
16) Acetone	3.82	43	19196	10.576	ug/l	91
18) Methyl Acetate	4.33	43	13156	1.691	ug/l #	75
20) Methylene Chloride	4.55	84	22357	2.663	ug/l	96
25) 2-Butanone	6.85	43	4148	1.777	ug/l	91
29) Tetrahydrofuran	7.23	42	1183	0.800	ug/l #	56
31) Cyclohexane	7.66	56	10974	0.461	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	44562	3.932	ug/l #	48
37) Ethyl Acetate	6.85	43	4148	0.739	ug/l #	64
38) Carbon Tetrachloride	7.67	117	61385	5.007	ug/l #	16
43) Isopropyl Acetate	8.17	43	281377	28.638	ug/l #	89
48) Methyl methacrylate	9.18	41	5144	1.027	ug/l #	15
51) 4-Methyl-2-Pentanone	9.99	43	2138	0.405	ug/l #	75
56) Ethyl methacrylate	10.28	69	109	1.588	ug/l #	1
59) 2-Hexanone	10.77	43	13146	3.689	ug/l #	57
70) Styrene	11.97	104	253	0.904	ug/l #	58
71) Bromoform	12.40	173	3121	0.545	ug/l #	1
75) 1,1,2,2-Tetrachloroethane	12.43	83	155	Below Cal	#	74
76) 1,2,3-Trichloropropane	12.40	75	185661	39.201	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	185661	117.713	ug/l #	14
89) n-Butylbenzene	13.35	91	625	1.461	ug/l #	46
95) Naphthalene	15.14	128	69	5.336	ug/l #	69

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.00 min

Lab File: VN051380.D

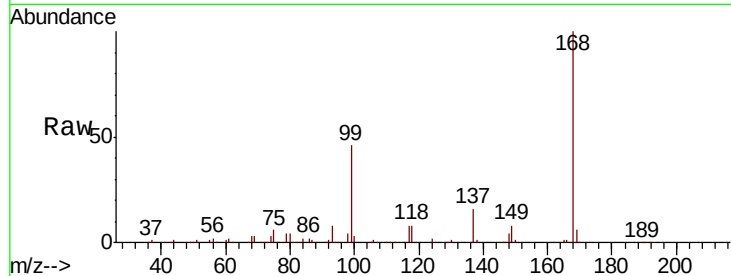
Acq: 21 Sep 2018 19:52

Tot Ion:168 Resp: 753671

Ion Ratio Lower Upper

168 100

99 46.3 37.1 55.7



Abundance Ion 167.90 (167.60 to 168.60): VN051339.D

Ion 98.90 (98.60 to 99.60): VN051339.D

7.67

300000

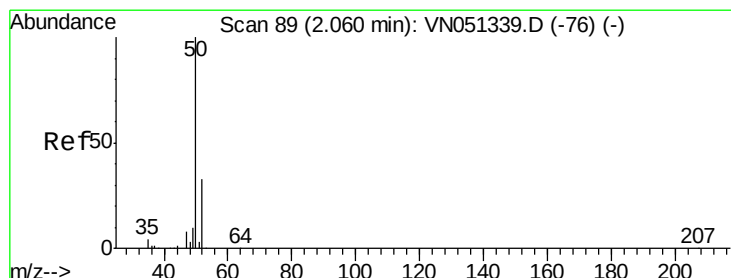
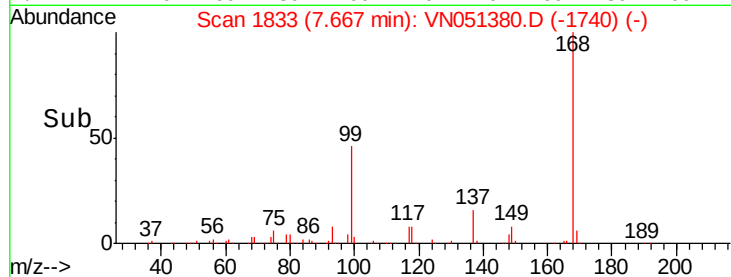
200000

100000

0

Time-->

7.50 7.60 7.70 7.80 7.90



#3

Chloromethane

Concen: Below Cal

RT: 2.06 min Scan# 88

Delta R.T. -0.00 min

Lab File: VN051380.D

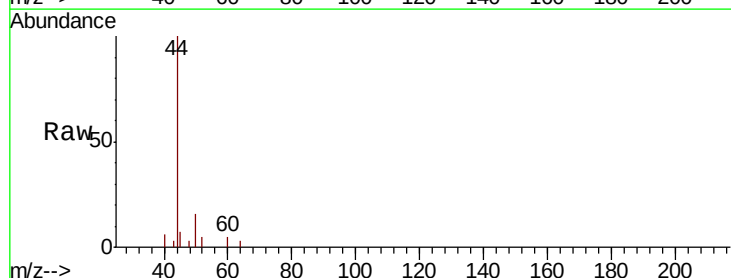
Acq: 21 Sep 2018 19:52

Tgt Ion: 50 Resp: 1175

Ion Ratio Lower Upper

50 100

52 28.0 26.7 40.1



Abundance Ion 49.90 (49.60 to 50.60): VN051339.D

Ion 51.90 (51.60 to 52.60): VN051339.D

2.06

1000

800

600

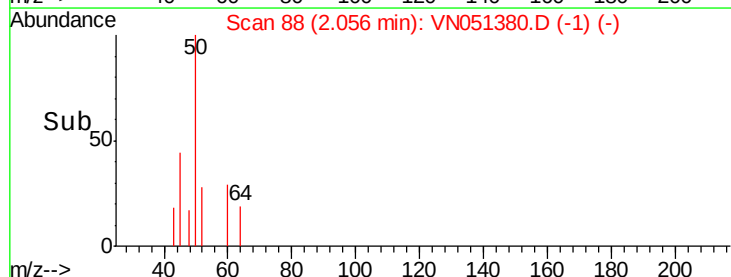
400

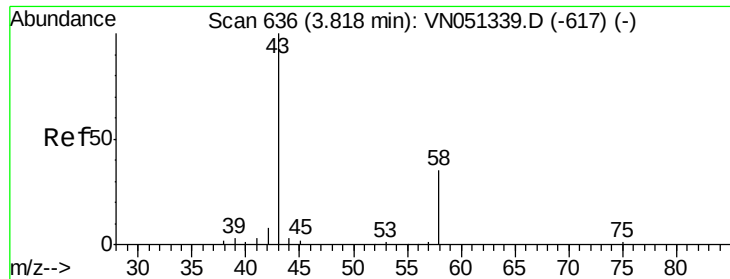
200

0

Time-->

2.05 2.10





#16

Acetone

Concen: 10.576 ug/l

RT: 3.82 min Scan# 638

Delta R.T. 0.00 min

Lab File: VN051380.D

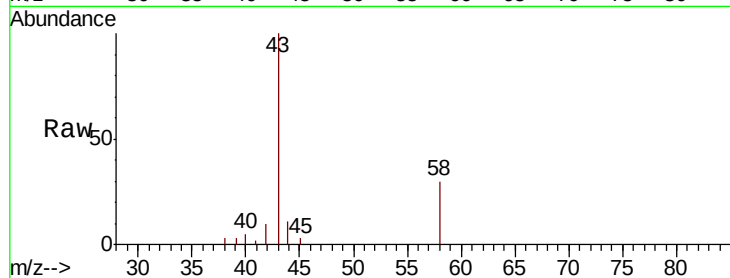
Acq: 21 Sep 2018 19:52

Tot Ion: 43 Resp: 19196

Ion Ratio Lower Upper

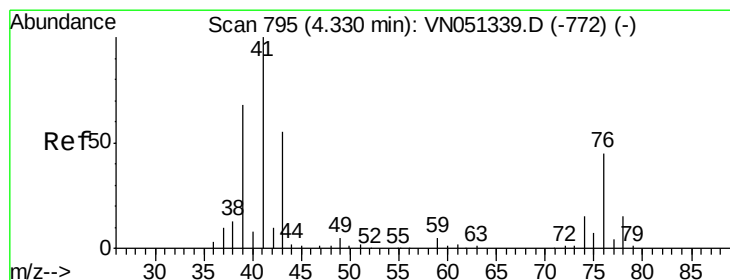
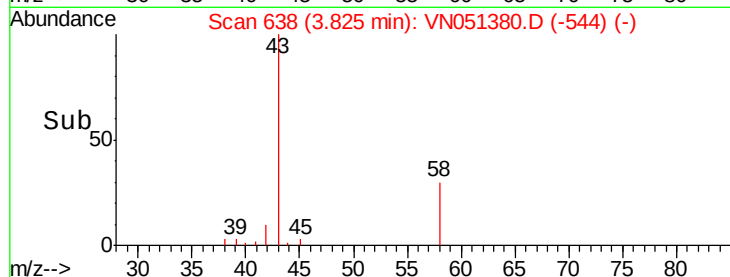
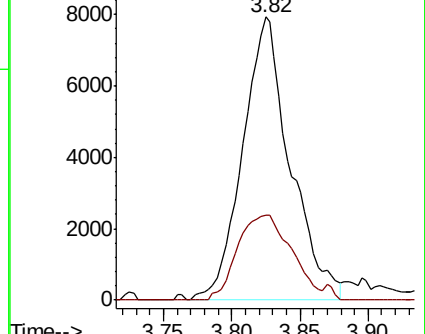
43 100

58 30.1 28.3 42.5



Abundance Ion 43.00 (42.70 to 43.70): VN051339.D (-617) (-)

Ion 58.00 (57.70 to 58.70): VN051339.D (-617) (-)



#18

Methyl Acetate

Concen: 1.691 ug/l

RT: 4.33 min Scan# 795

Delta R.T. -0.00 min

Lab File: VN051380.D

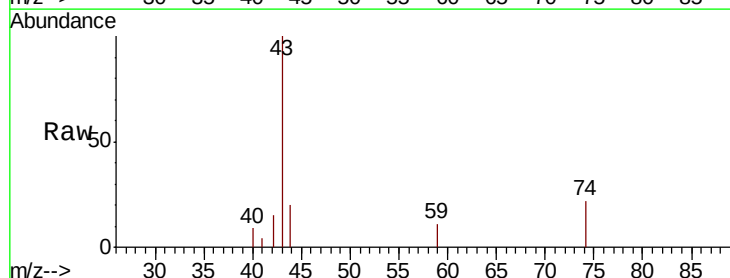
Acq: 21 Sep 2018 19:52

Tgt Ion: 43 Resp: 13156

Ion Ratio Lower Upper

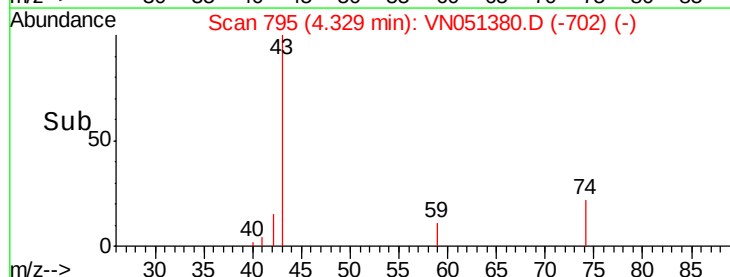
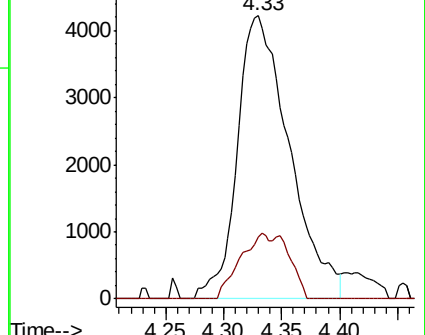
43 100

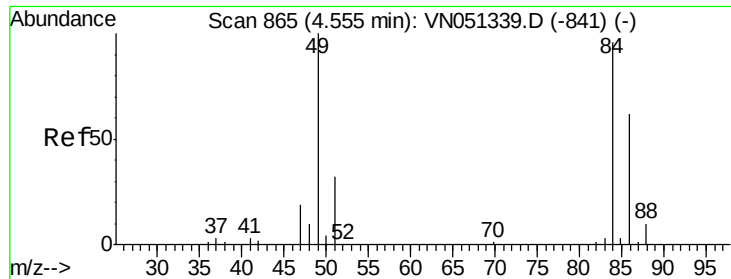
74 14.1 21.7 32.5#



Abundance Ion 43.00 (42.70 to 43.70): VN051339.D (-772) (-)

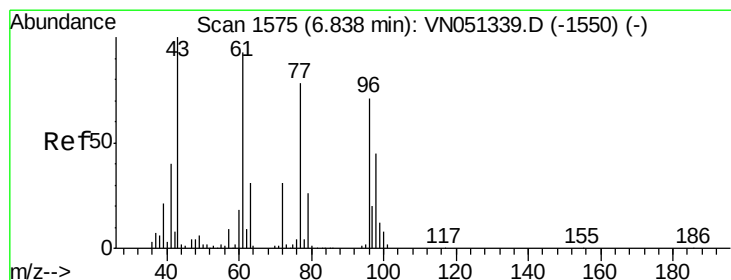
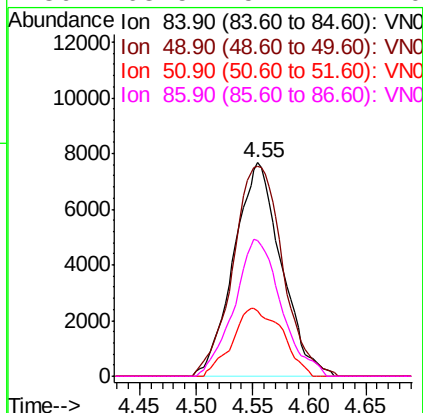
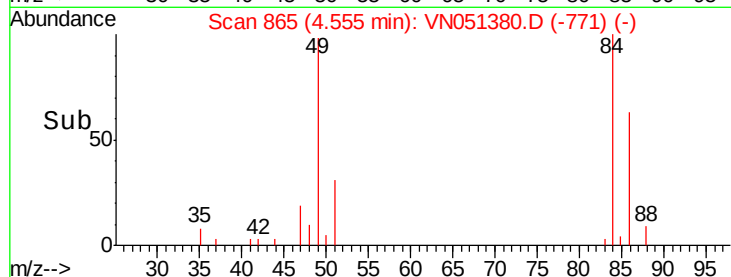
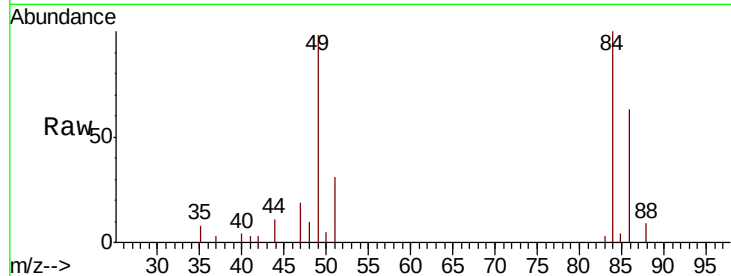
Ion 74.00 (73.70 to 74.70): VN051339.D (-772) (-)





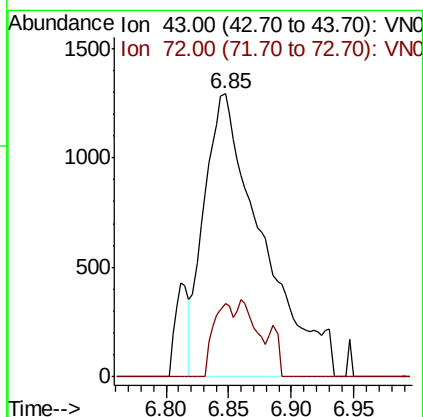
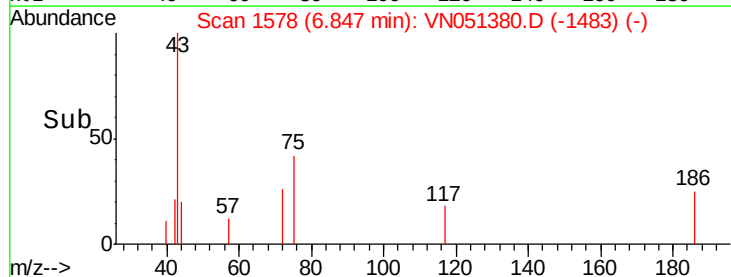
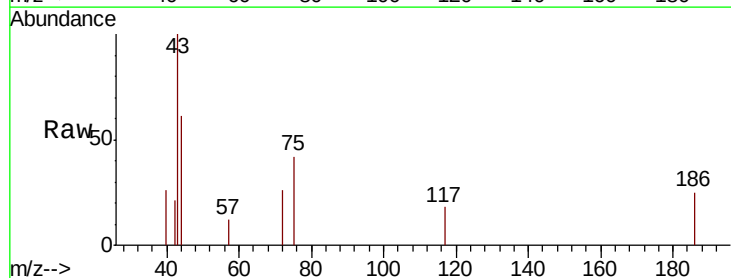
#20
Methvlene Chloride
Concen: 2.663 ug/l
RT: 4.55 min Scan# 865
Delta R.T. 0.00 min
Lab File: VN051380.D
Acq: 21 Sep 2018 19:52

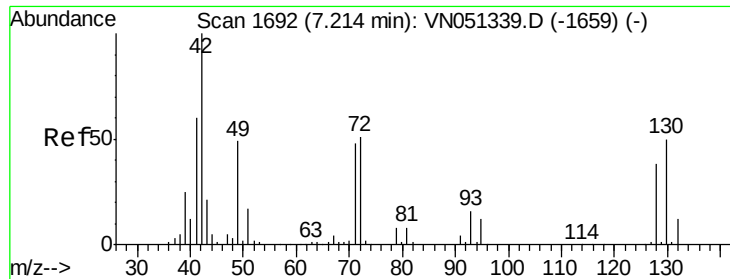
Tot Ion:	84	Resp:	22357
Ion	Ratio	Lower	Upper
84	100		
49	98.2	83.2	124.8
51	30.5	26.4	39.6
86	63.5	51.4	77.0



#25
2-Butanone
Concen: 1.777 ug/l
RT: 6.85 min Scan# 1578
Delta R.T. 0.01 min
Lab File: VN051380.D
Acq: 21 Sep 2018 19:52

Tgt Ion:	43	Resp:	4148
Ion	Ratio	Lower	Upper
43	100		
72	25.8	24.7	37.1





#29

Tetrahydrofuran

Concen: 0.800 ug/l

RT: 7.23 min Scan# 1696

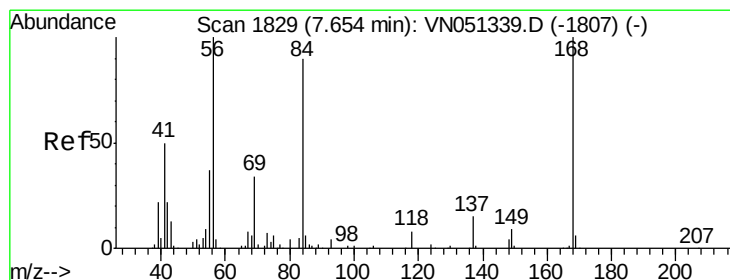
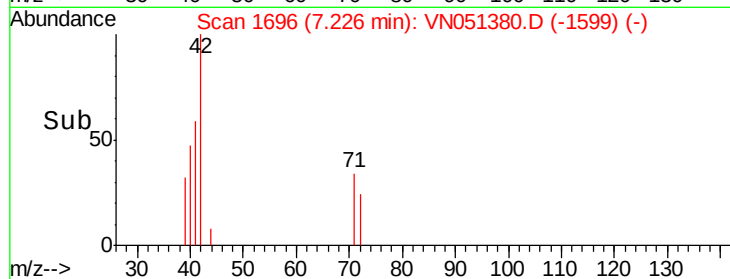
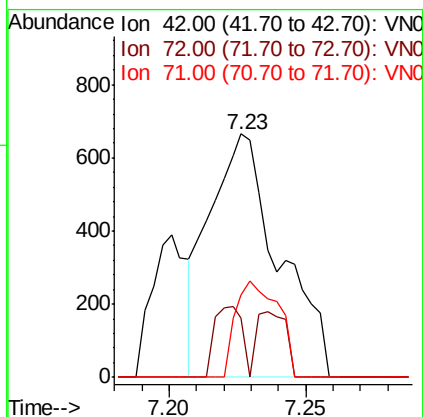
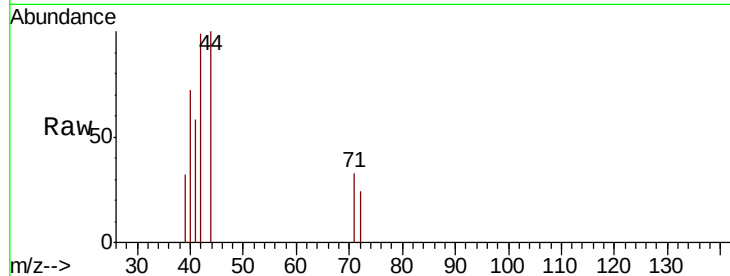
Delta R.T. 0.01 min

Lab File: VN051380.D

Acq: 21 Sep 2018 19:52

Tot Ion: 42 Resp: 1183

Ion	Ratio	Lower	Upper
42	100		
72	11.6	39.0	58.4#
71	24.1	36.5	54.7#



#31

Cyclohexane

Concen: 0.461 ug/l

RT: 7.66 min Scan# 1832

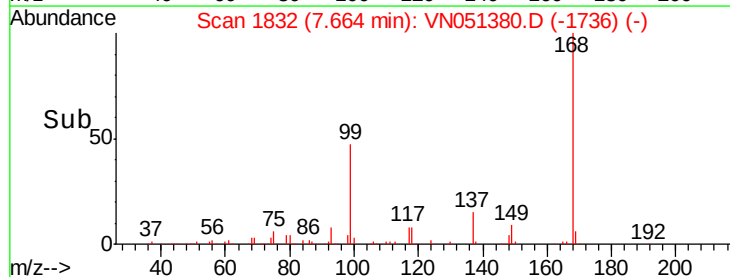
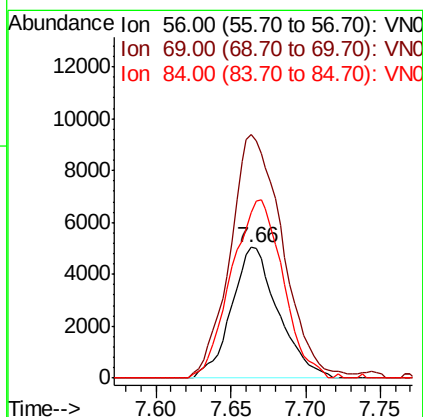
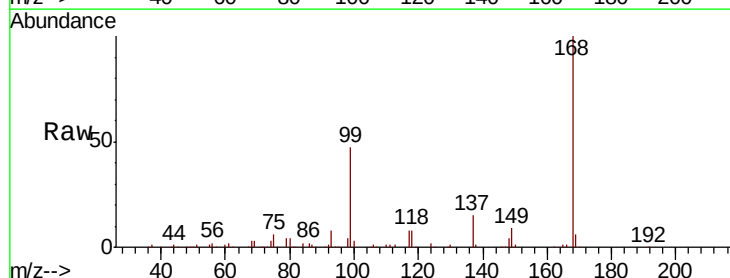
Delta R.T. 0.01 min

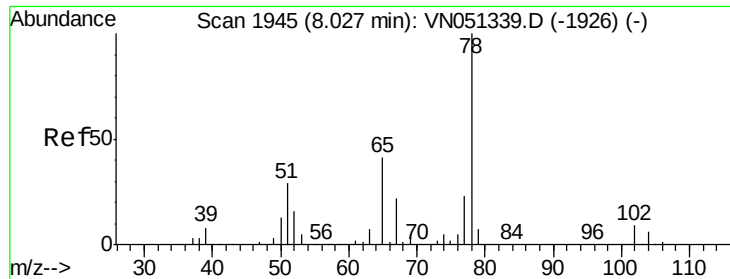
Lab File: VN051380.D

Acq: 21 Sep 2018 19:52

Tgt Ion: 56 Resp: 10974

Ion	Ratio	Lower	Upper
56	100		
69	186.7	27.3	40.9#
84	127.1	72.2	108.2#





#33

1,2-Dichloroethane-d4

Concen: 51.425 ug/l

RT: 8.03 min Scan# 1946

Delta R.T. 0.00 min

Lab File: VN051380.D

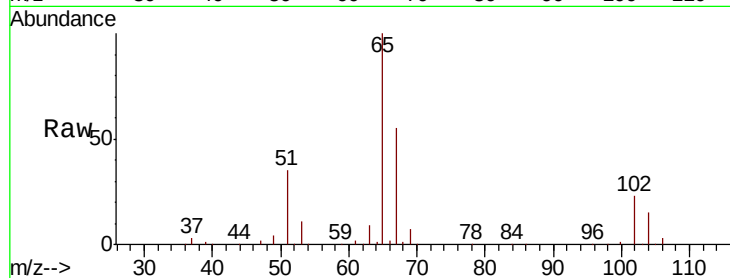
Acq: 21 Sep 2018 19:52

Tot Ion: 65 Resp: 420072

Ion Ratio Lower Upper

65 100

67 54.0 0.0 108.8



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

8.03

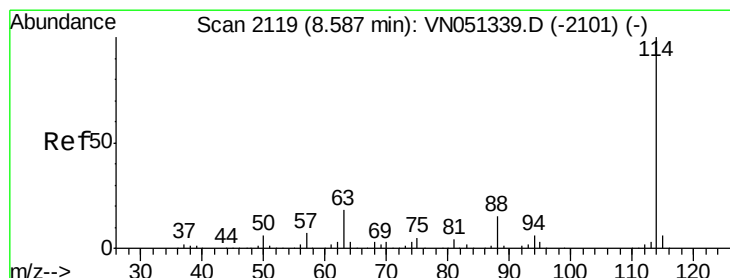
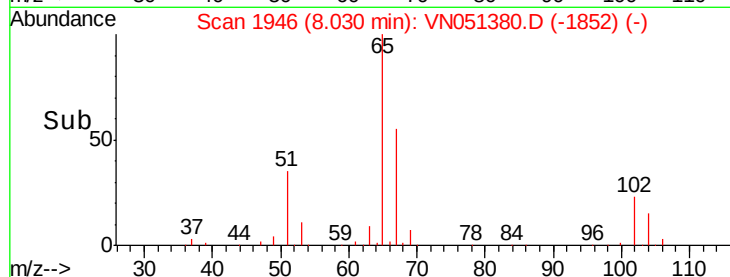
150000

100000

50000

0

Time--> 7.90 8.00 8.10



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.59 min Scan# 2119

Delta R.T. -0.00 min

Lab File: VN051380.D

Acq: 21 Sep 2018 19:52

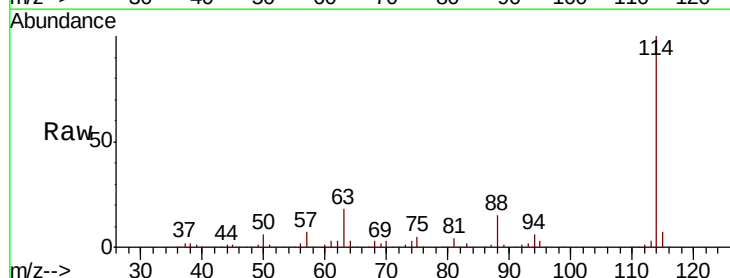
Tgt Ion: 114 Resp: 1107882

Ion Ratio Lower Upper

114 100

63 17.9 0.0 36.6

88 15.2 0.0 29.8



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN0

Ion 87.90 (87.60 to 88.60): VN0

8.59

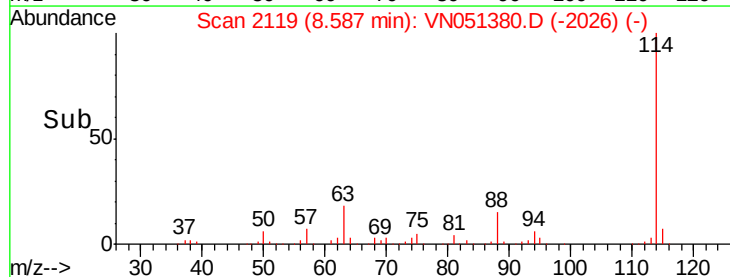
600000

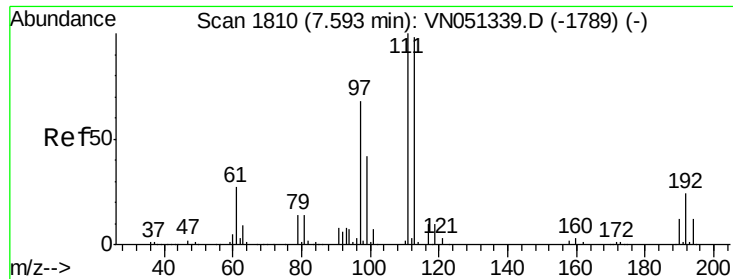
400000

200000

0

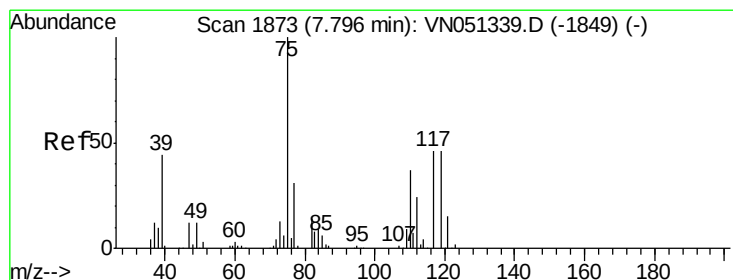
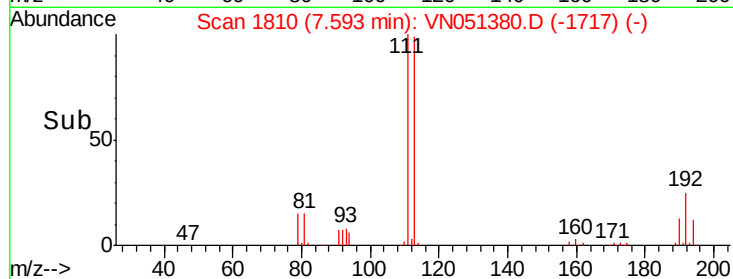
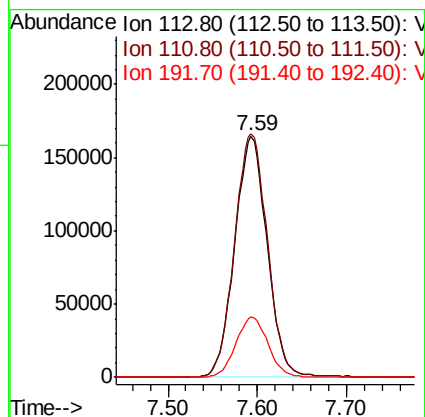
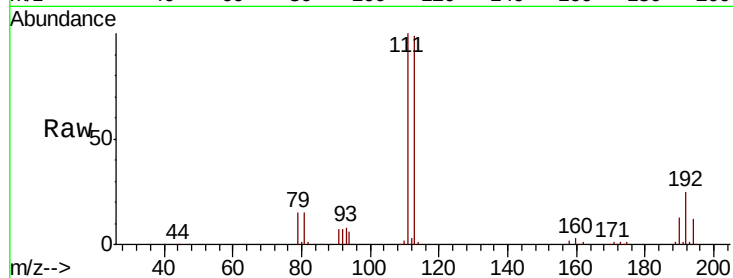
Time--> 8.50 8.60 8.70





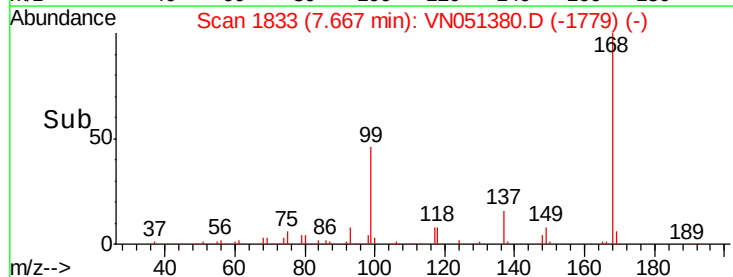
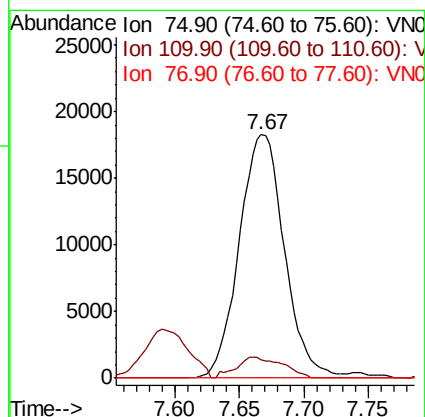
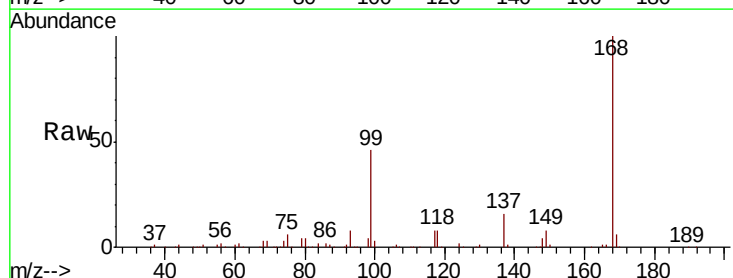
#35
 Dibromofluoromethane
 Concen: 46.493 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. -0.00 min
 Lab File: VN051380.D
 Acq: 21 Sep 2018 19:52

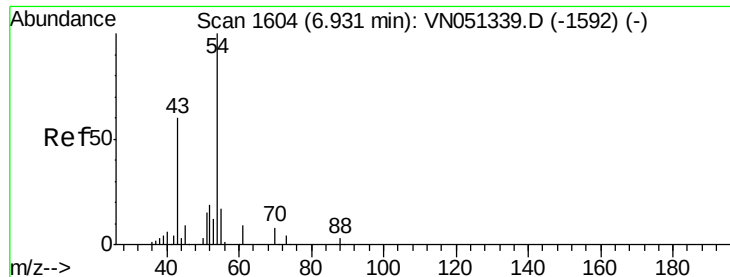
Tot Ion	Ratio	Lower	Upper
113	100		
111	102.1	81.9	122.9
192	24.8	19.8	29.6



#36
 1,1-Dichloropropene
 Concen: 3.932 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.13 min
 Lab File: VN051380.D
 Acq: 21 Sep 2018 19:52

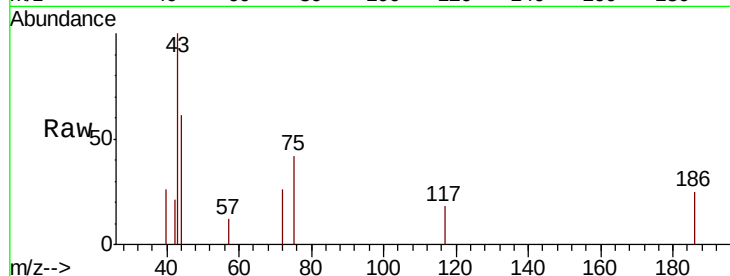
Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.8	18.9	56.5#
77	0.0	25.4	38.2#



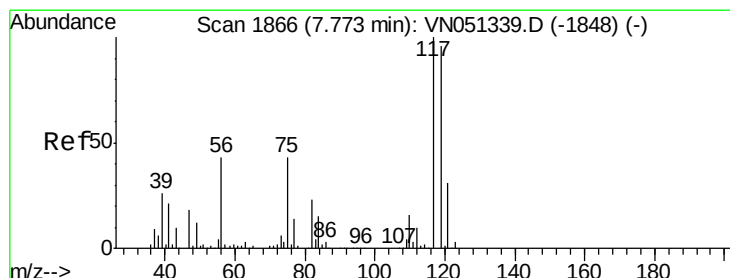
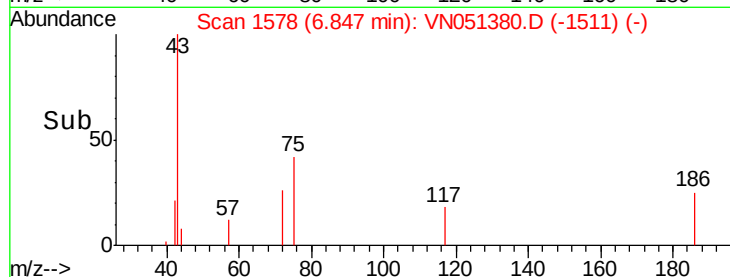
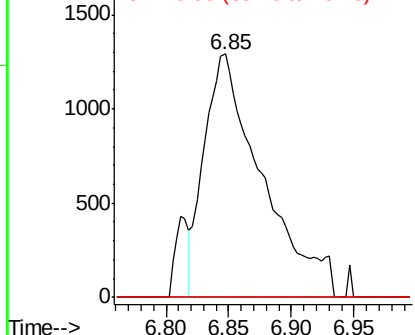


#37
Ethyl Acetate
Concen: 0.739 ug/l
RT: 6.85 min Scan# 1578
Delta R.T. -0.09 min
Lab File: VN051380.D
Acq: 21 Sep 2018 19:52

Tot Ion: 43 Resp: 4148
Ion Ratio Lower Upper
43 100
61 0.0 13.6 20.4#
70 0.0 9.4 14.2#

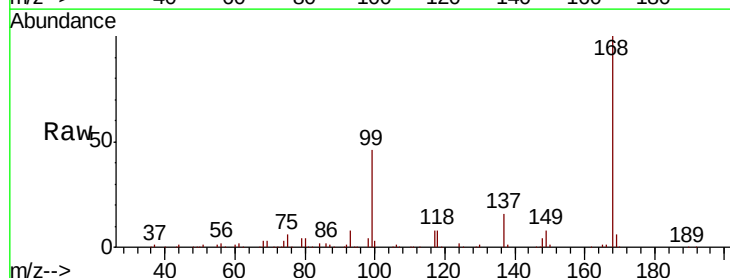


Abundance Ion 43.00 (42.70 to 43.70): VN051339.D (-1592) (-)
Ion 60.90 (60.60 to 61.60): VN051339.D (-1592) (-)
Ion 70.00 (69.70 to 70.70): VN051339.D (-1592) (-)

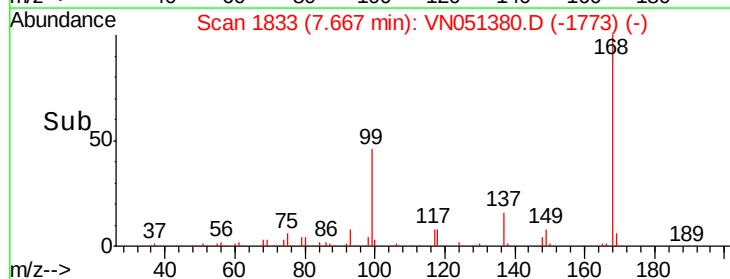
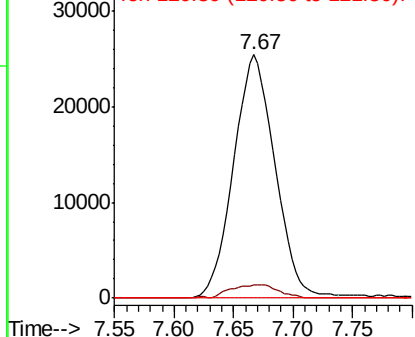


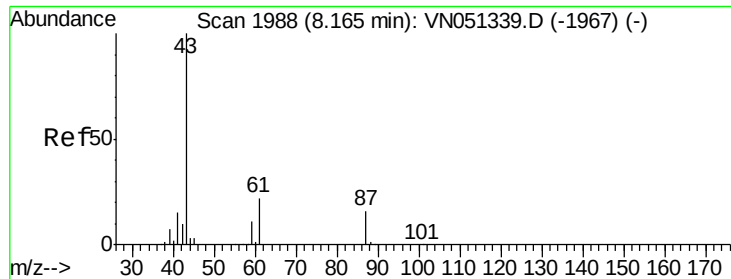
#38
Carbon Tetrachloride
Concen: 5.007 ug/l
RT: 7.67 min Scan# 1833
Delta R.T. -0.11 min
Lab File: VN051380.D
Acq: 21 Sep 2018 19:52

Tgt Ion: 117 Resp: 61385
Ion Ratio Lower Upper
117 100
119 5.2 77.0 115.4#
121 0.0 25.0 37.4#



Abundance Ion 116.80 (116.50 to 117.50): VN051339.D (-1848) (-)
Ion 118.80 (118.50 to 119.50): VN051339.D (-1848) (-)
Ion 120.80 (120.50 to 121.50): VN051339.D (-1848) (-)





#43

Isopropyl Acetate

Concen: 28.638 ug/l

RT: 8.17 min Scan# 1989

Delta R.T. 0.00 min

Lab File: VN051380.D

Acq: 21 Sep 2018 19:52

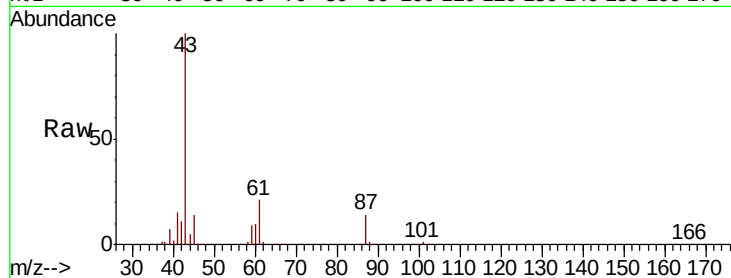
Tot Ion: 43 Resp: 281377

Ion Ratio Lower Upper

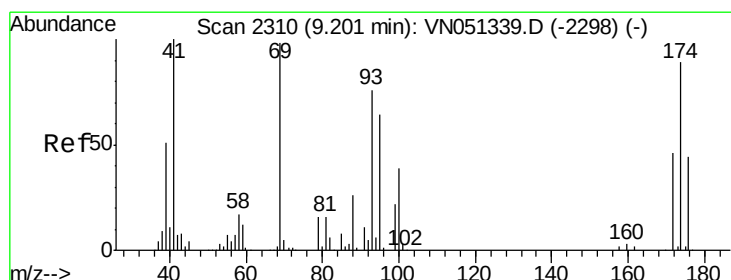
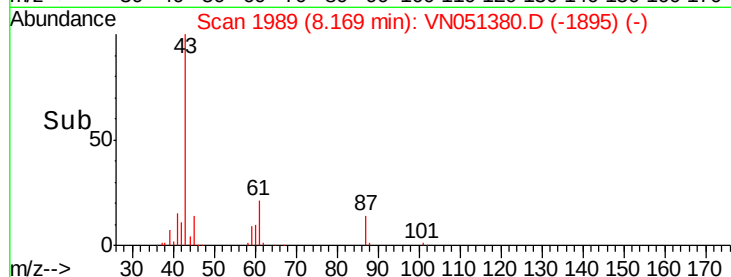
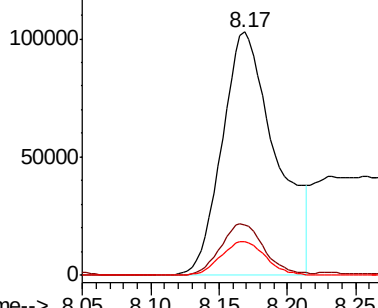
43 100

61 17.2 18.1 27.1#

87 11.6 12.8 19.2#



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



#48

Methyl methacrylate

Concen: 1.027 ug/l

RT: 9.18 min Scan# 2304

Delta R.T. -0.02 min

Lab File: VN051380.D

Acq: 21 Sep 2018 19:52

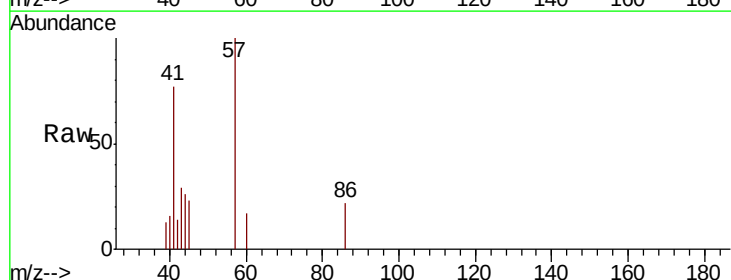
Tgt Ion: 41 Resp: 5144

Ion Ratio Lower Upper

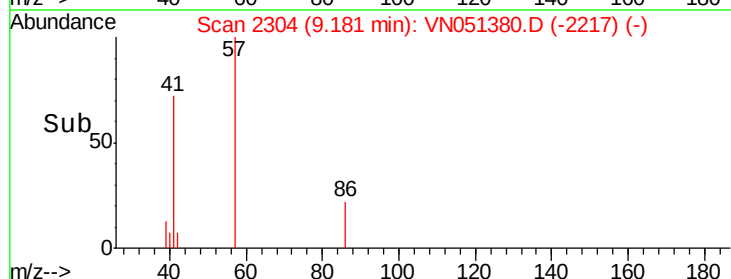
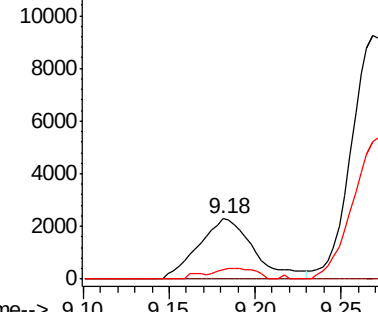
41 100

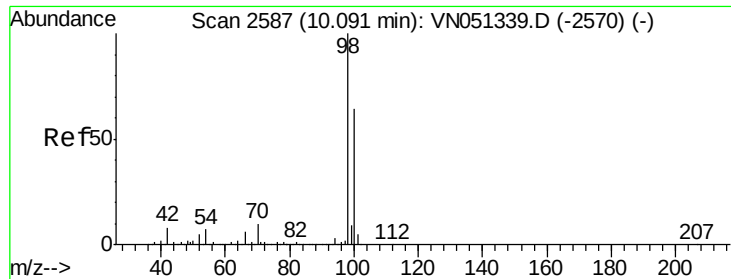
69 0.0 79.4 119.0#

39 12.5 43.0 64.6#



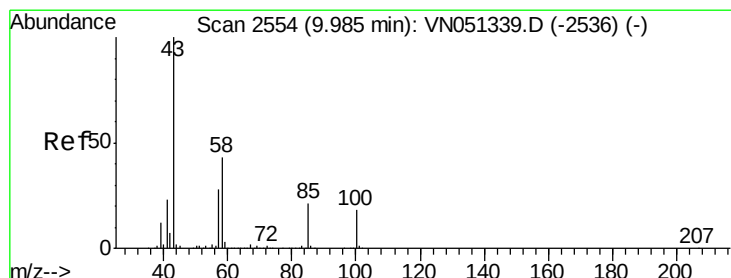
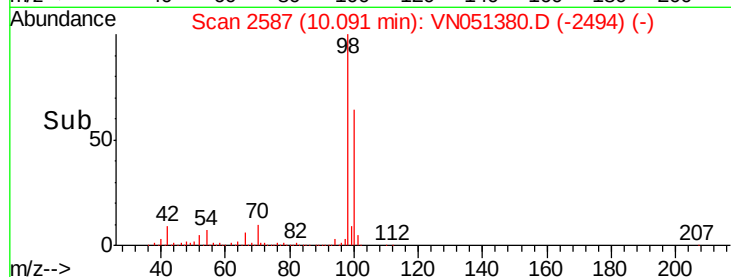
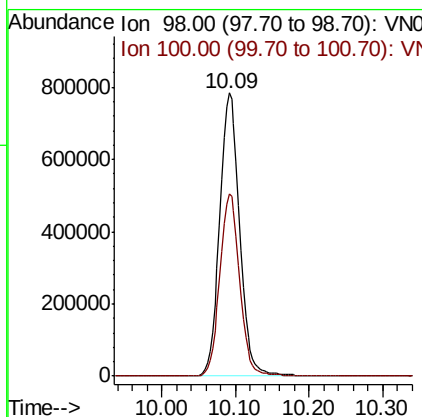
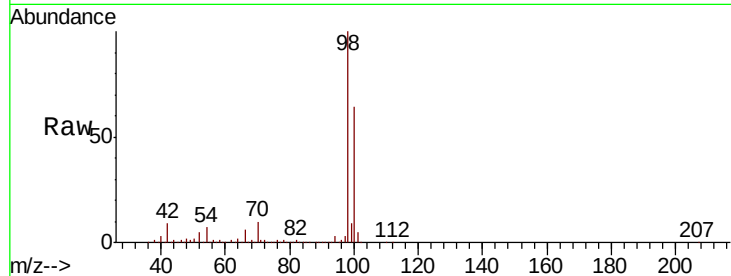
Abundance Ion 41.00 (40.70 to 41.70): VNO
Ion 69.00 (68.70 to 69.70): VNO
Ion 39.00 (38.70 to 39.70): VNO





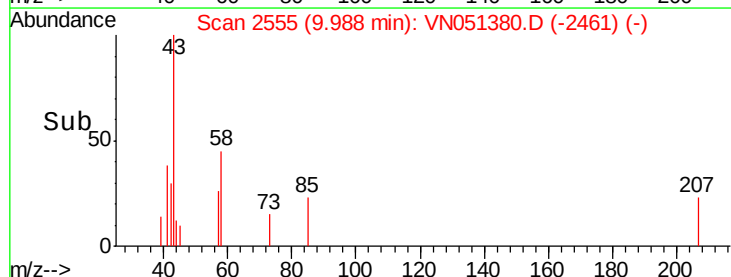
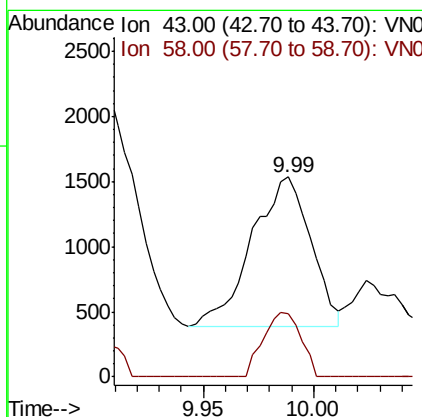
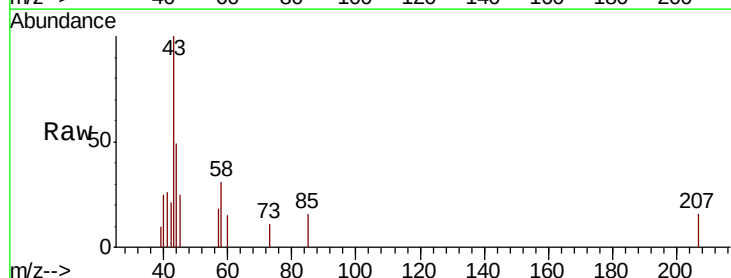
#50
Toluene-d8
Concen: 42.848 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. -0.00 min
Lab File: VN051380.D
Acq: 21 Sep 2018 19:52

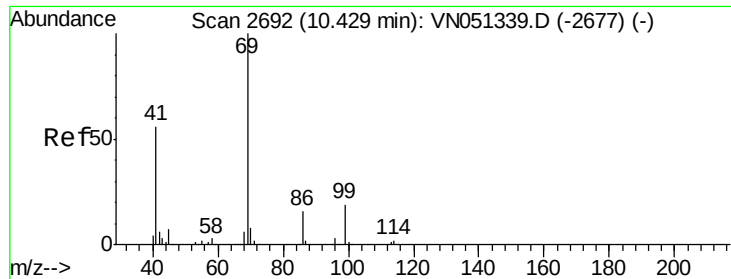
Tot Ion: 98 Resp: 1474748
Ion Ratio Lower Upper
98 100
100 64.1 51.3 76.9



#51
4-Methyl-2-Pentanone
Concen: 0.405 ug/l
RT: 9.99 min Scan# 2555
Delta R.T. 0.00 min
Lab File: VN051380.D
Acq: 21 Sep 2018 19:52

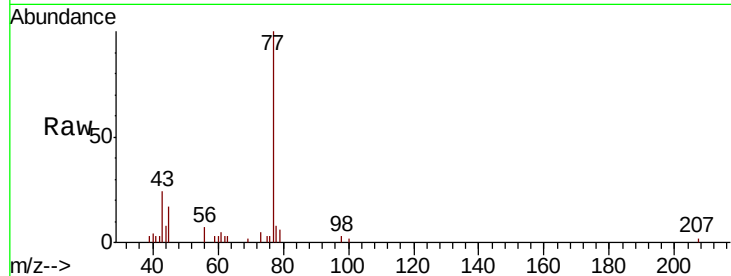
Tgt Ion: 43 Resp: 2138
Ion Ratio Lower Upper
43 100
58 27.1 34.2 51.4#



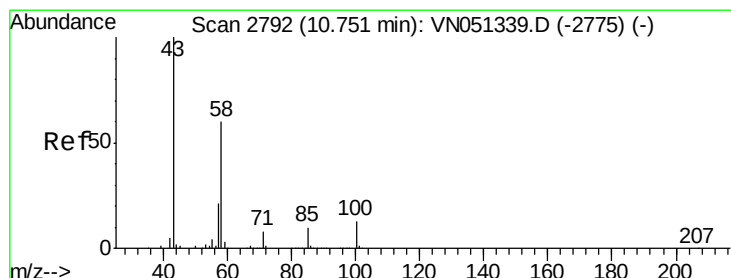
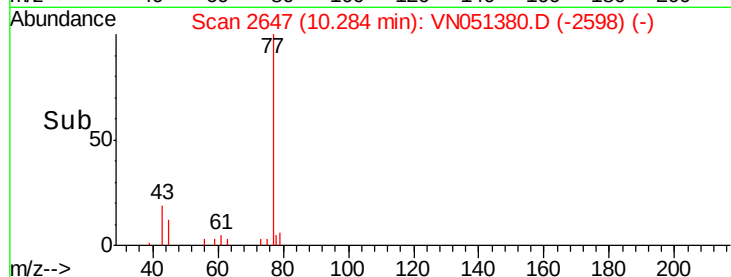
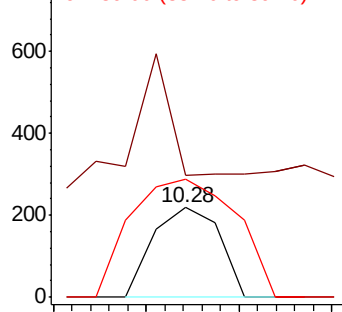


#56
Ethyl methacrylate
Concen: 1.588 ug/l
RT: 10.28 min Scan# 2647
Delta R.T. -0.14 min
Lab File: VN051380.D
Acq: 21 Sep 2018 19:52

Tot Ion: 69 Resp: 109
Ion Ratio Lower Upper
69 100
41 487.2 45.1 67.7#
39 208.3 23.4 35.2#

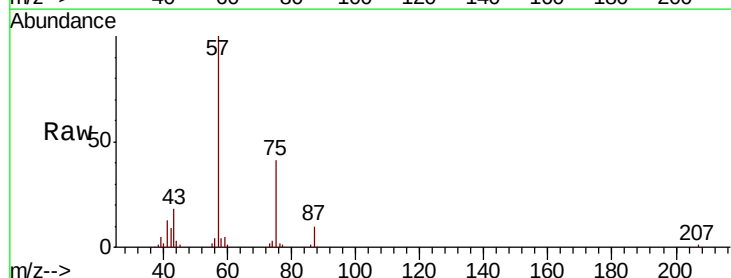


Abundance Ion 69.00 (68.70 to 69.70): VN0
Ion 41.00 (40.70 to 41.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

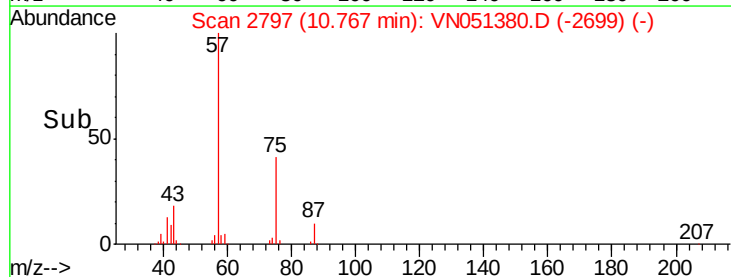
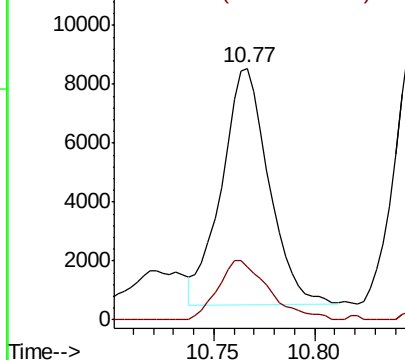


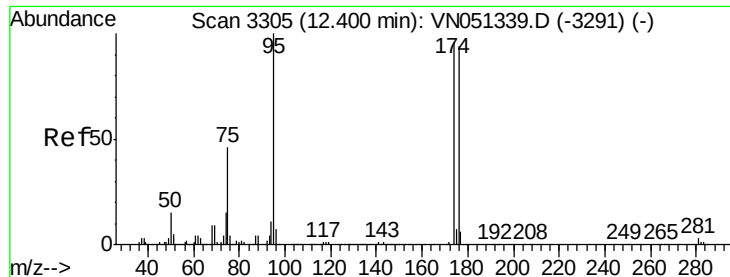
#59
2-Hexanone
Concen: 3.689 ug/l
RT: 10.77 min Scan# 2797
Delta R.T. 0.02 min
Lab File: VN051380.D
Acq: 21 Sep 2018 19:52

Tgt Ion: 43 Resp: 13146
Ion Ratio Lower Upper
43 100
58 27.2 29.9 89.8#



Abundance Ion 43.00 (42.70 to 43.70): VN0
Ion 58.00 (57.70 to 58.70): VN0





#62

4-Bromofluorobenzene

Concen: 36.370 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN051380.D

Acq: 21 Sep 2018 19:52

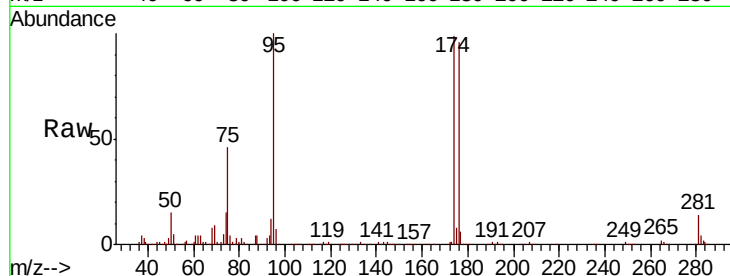
Tot Ion: 95 Resp: 407250

Ion Ratio Lower Upper

95 100

174 98.3 0.0 194.6

176 94.8 0.0 189.6



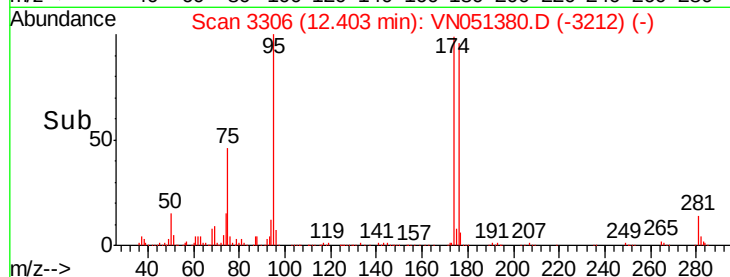
Abundance Ion 94.90 (94.60 to 95.60): VN051339.D (-3291) (-)

Ion 173.80 (173.50 to 174.50): VN051339.D (-3291) (-)

Ion 175.80 (175.50 to 176.50): VN051339.D (-3291) (-)

12.40

Time-->



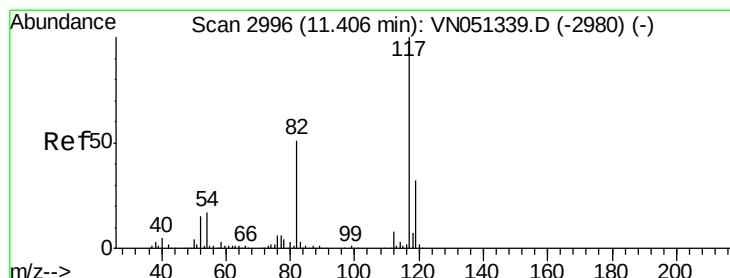
Abundance Ion 94.90 (94.60 to 95.60): VN051380.D (-3212) (-)

Ion 173.80 (173.50 to 174.50): VN051380.D (-3212) (-)

Ion 175.80 (175.50 to 176.50): VN051380.D (-3212) (-)

12.40

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. -0.00 min

Lab File: VN051380.D

Acq: 21 Sep 2018 19:52

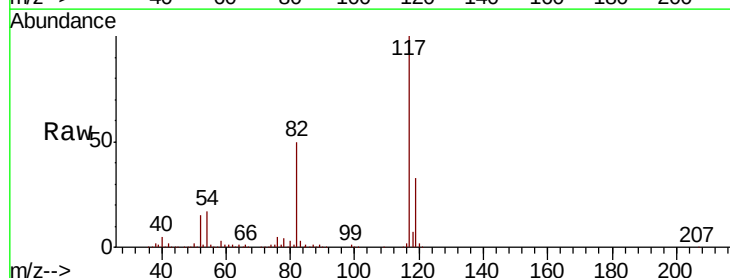
Tgt Ion: 117 Resp: 927334

Ion Ratio Lower Upper

117 100

82 50.5 40.7 61.1

119 32.9 25.3 37.9



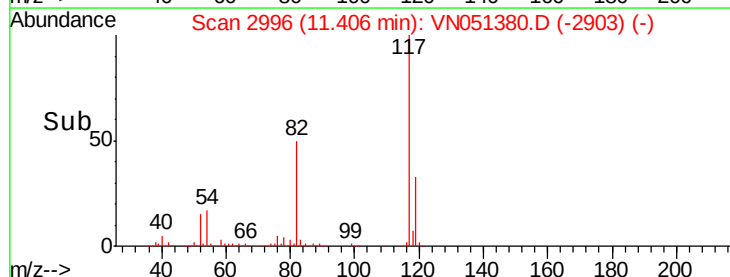
Abundance Ion 116.90 (116.60 to 117.60): VN051339.D (-2980) (-)

Ion 82.00 (81.70 to 82.70): VN051339.D (-2980) (-)

Ion 118.90 (118.60 to 119.60): VN051339.D (-2980) (-)

11.41

Time-->



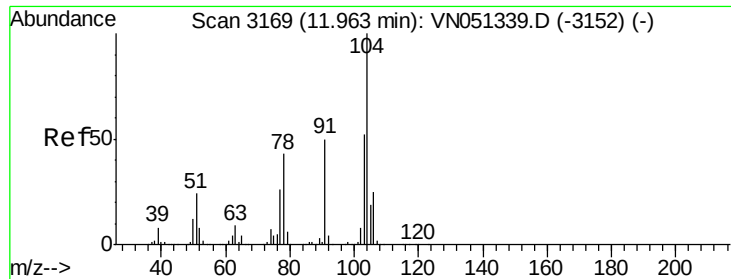
Abundance Ion 116.90 (116.60 to 117.60): VN051380.D (-2903) (-)

Ion 82.00 (81.70 to 82.70): VN051380.D (-2903) (-)

Ion 118.90 (118.60 to 119.60): VN051380.D (-2903) (-)

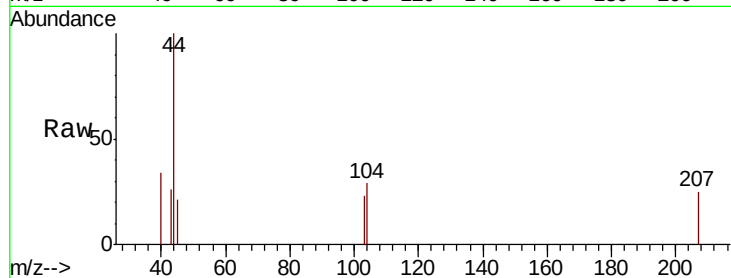
11.41

Time-->

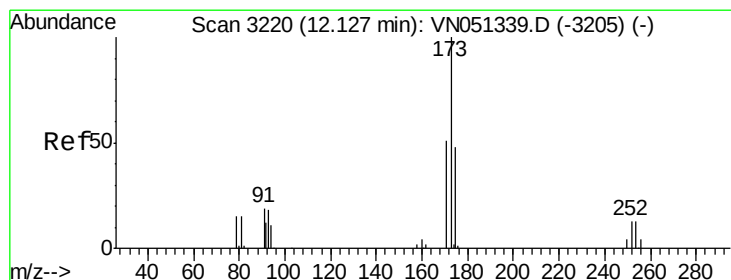
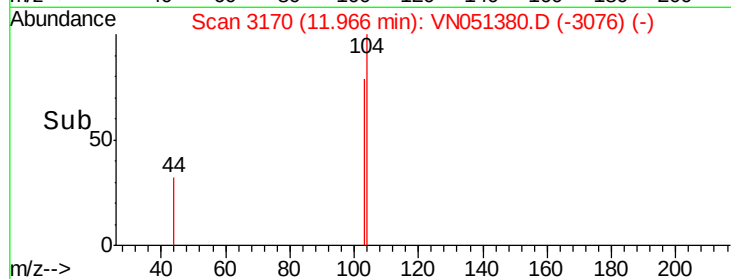
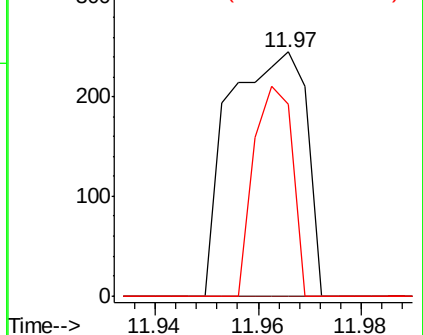


#70
Stvrene
Concen: 0.904 ug/l
RT: 11.97 min Scan# 3170
Delta R.T. 0.00 min
Lab File: VN051380.D
Acq: 21 Sep 2018 19:52

Tot Ion:104 Resp: 253
Ion Ratio Lower Upper
104 100
78 0.0 37.8 56.6#
103 42.7 44.3 66.5#

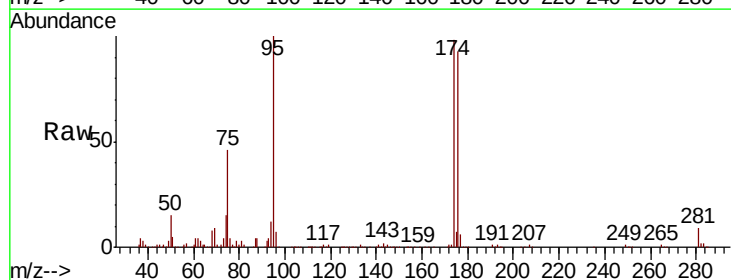


Abundance Ion 104.00 (103.70 to 104.70): V
Ion 78.00 (77.70 to 78.70): VN0
Ion 103.00 (102.70 to 103.70): V

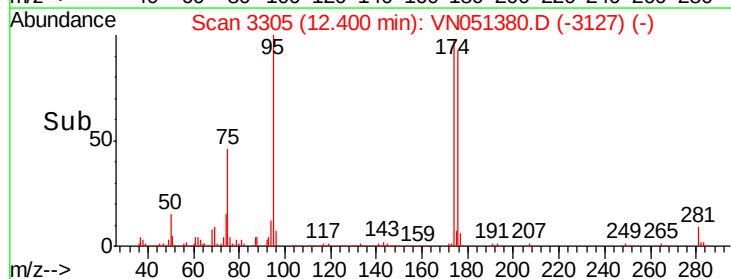
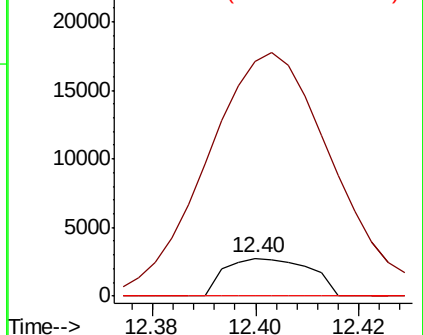


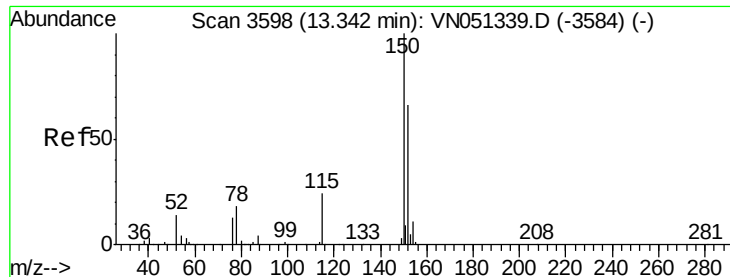
#71
Bromoform
Concen: 0.545 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.27 min
Lab File: VN051380.D
Acq: 21 Sep 2018 19:52

Tgt Ion:173 Resp: 3121
Ion Ratio Lower Upper
173 100
175 868.8 24.3 73.0#
254 0.0 0.1 0.1#



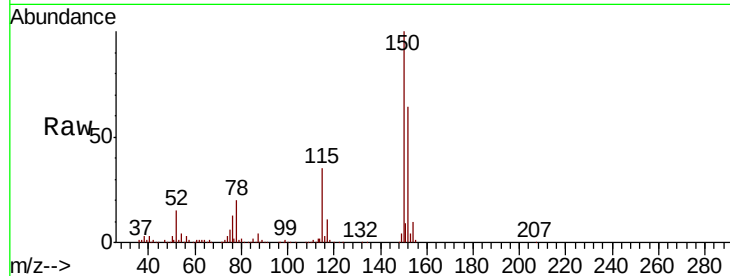
Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V



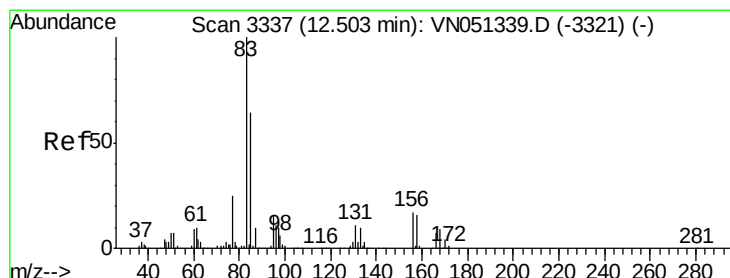
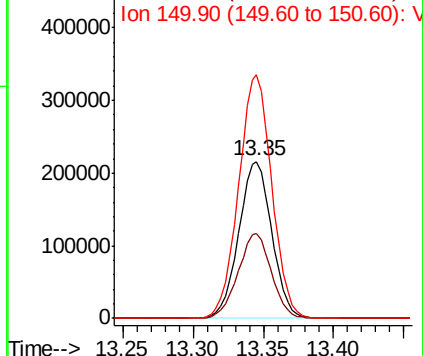
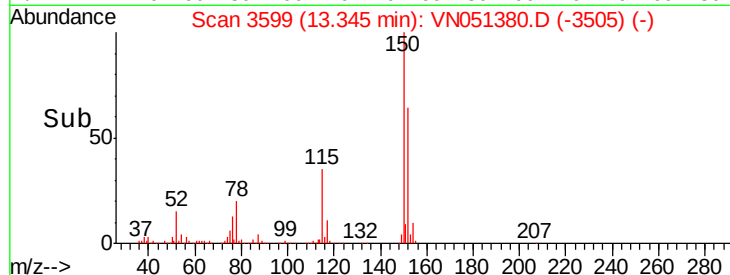


#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.35 min Scan# 3599
 Delta R.T. 0.00 min
 Lab File: VN051380.D
 Acq: 21 Sep 2018 19:52

Tot Ion:	152	Resp:	353616
Ion	Ratio	Lower	Upper
152	100		
115	54.0	26.9	80.7
150	155.9	0.0	345.0

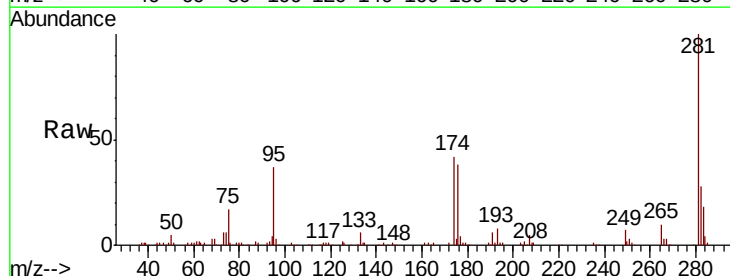


Abundance Ion 151.90 (151.60 to 152.60): V
 Ion 114.90 (114.60 to 115.60): V
 Ion 149.90 (149.60 to 150.60): V

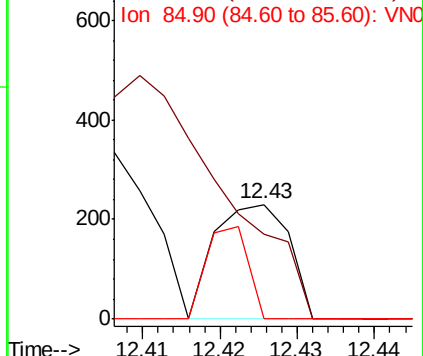
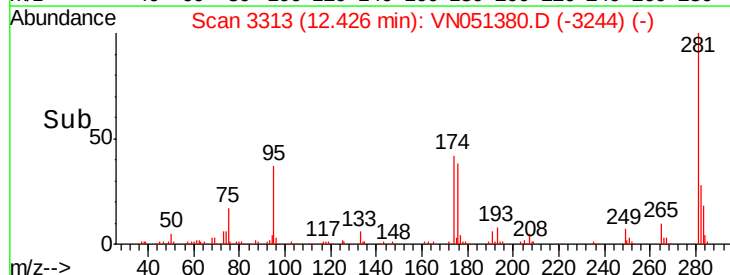


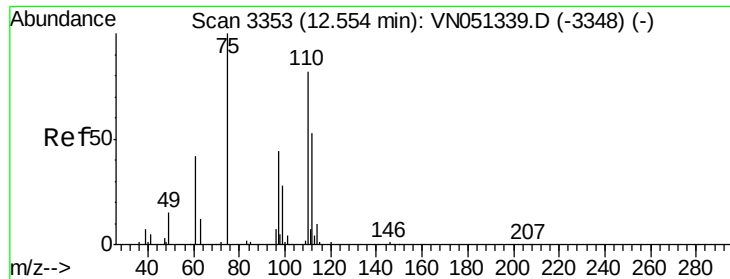
#75
 1,1,2,2-Tetrachloroethane
 Concen: Below Cal
 RT: 12.43 min Scan# 3313
 Delta R.T. -0.08 min
 Lab File: VN051380.D
 Acq: 21 Sep 2018 19:52

Tgt Ion:	83	Resp:	155
Ion	Ratio	Lower	Upper
83	100		
131	0.0	5.5	16.7#
85	44.5	32.3	96.9



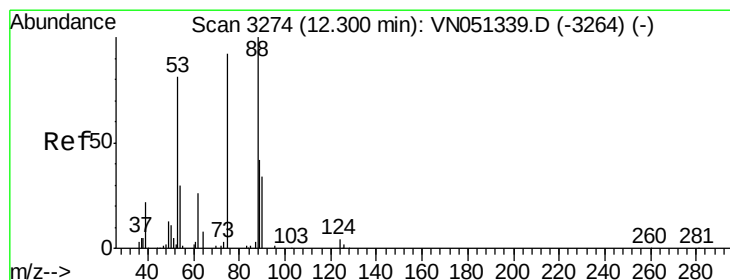
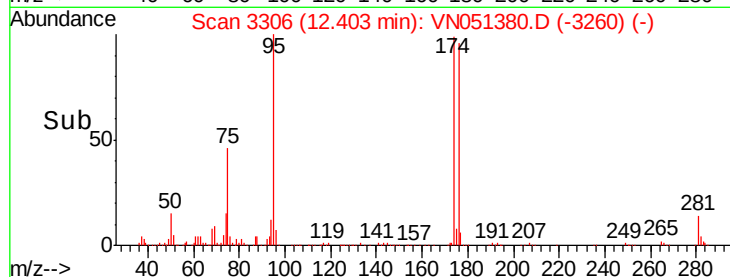
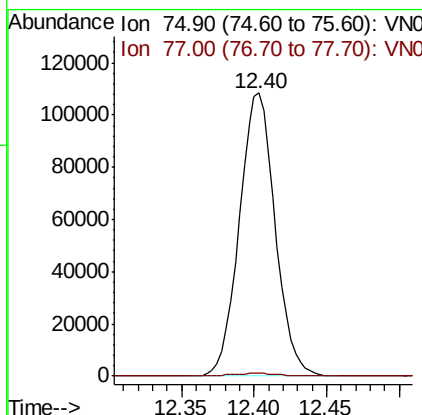
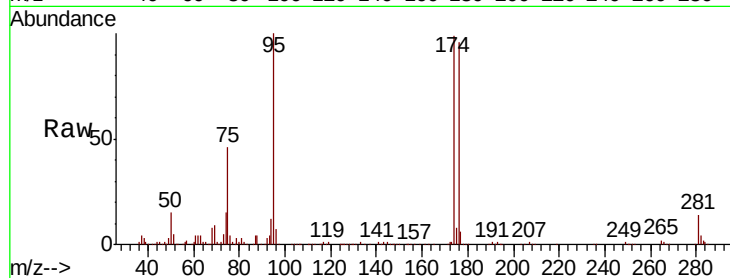
Abundance Ion 82.90 (82.60 to 83.60): VN0
 Ion 130.80 (130.50 to 131.50): V
 Ion 84.90 (84.60 to 85.60): VN0





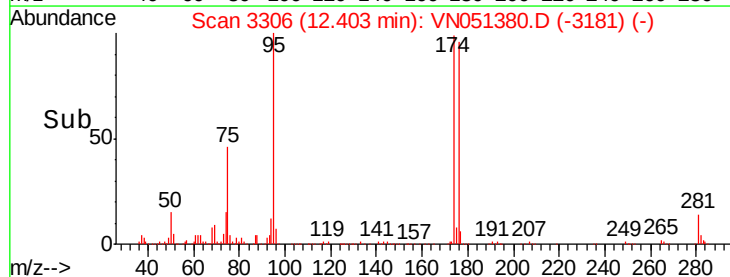
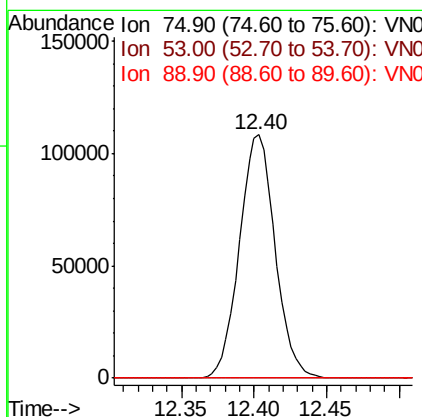
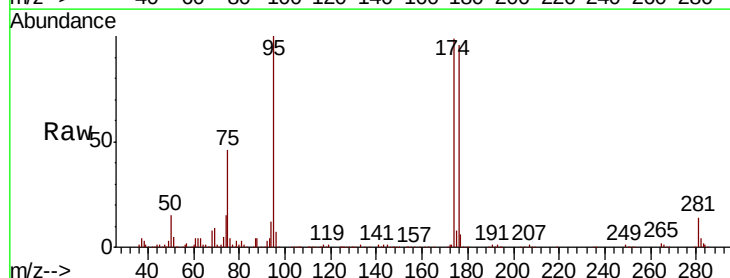
#76
 1,2,3-Trichloropropane
 Concen: 39.201 ug/l
 RT: 12.40 min Scan# 3306
 Delta R.T. -0.15 min
 Lab File: VN051380.D
 Acq: 21 Sep 2018 19:52

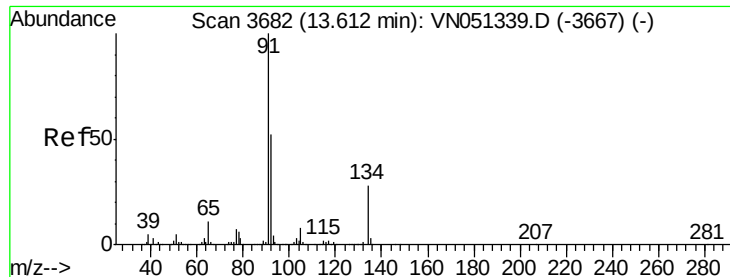
Tot Ion: 75 Resp: 185661
 Ion Ratio Lower Upper
 75 100
 77 1.2 0.0 0.0#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 117.713 ug/l
 RT: 12.40 min Scan# 3306
 Delta R.T. 0.10 min
 Lab File: VN051380.D
 Acq: 21 Sep 2018 19:52

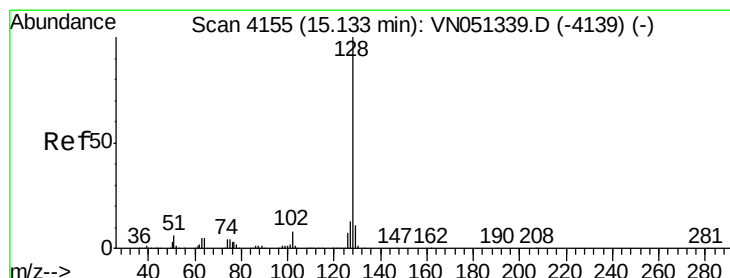
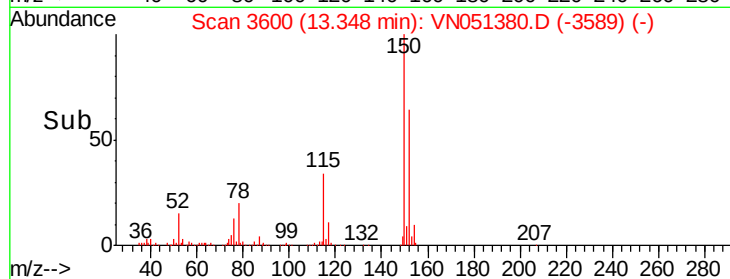
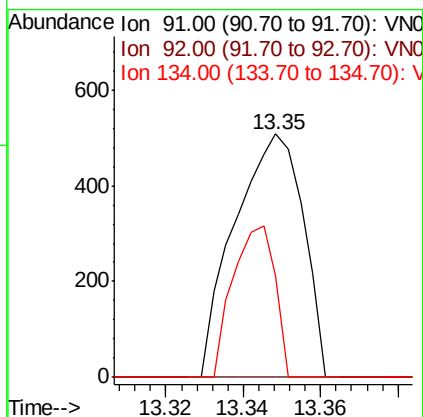
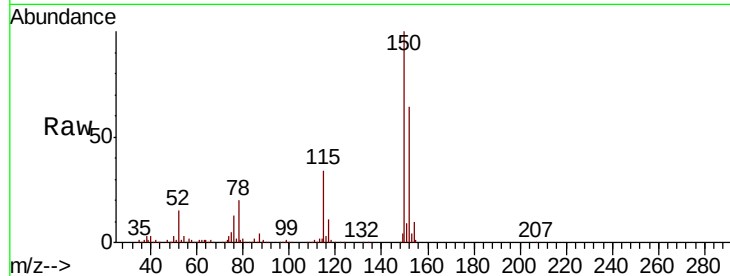
Tgt Ion: 75 Resp: 185661
 Ion Ratio Lower Upper
 75 100
 53 0.1 69.9 104.9#
 89 0.1 37.9 56.9#





#89
n-Butylbenzene
Concen: 1.461 ug/l
RT: 13.35 min Scan# 3600
Delta R.T. -0.26 min
Lab File: VN051380.D
Acq: 21 Sep 2018 19:52

Tot Ion	Ratio	Lower	Upper
91	100		
92	0.0	26.0	78.0#
134	38.1	14.1	42.4



#95
Naphthalene
Concen: 5.336 ug/l
RT: 15.14 min Scan# 4157
Delta R.T. 0.01 min
Lab File: VN051380.D
Acq: 21 Sep 2018 19:52

Tgt Ion	Ratio	Lower	Upper
128	100		
127	0.0	10.3	15.5#
129	0.0	8.6	13.0#

