

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092218\
 Data File : VN051378.D
 Acq On : 21 Sep 2018 19:02
 Operator : MD\SY
 Sample : PB113086ZHE#09
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 21 23:04:12 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	756056	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1117337	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	948313	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	369642	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	421058	51.38	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.76%	
35) Dibromofluoromethane	7.59	113	420029	46.52	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.04%	
50) Toluene-d8	10.09	98	1496690	43.12	ug/l	0.00
Spiked Amount	50.000		Recovery	=	86.24%	
62) 4-Bromofluorobenzene	12.40	95	420399	37.23	ug/l	0.00
Spiked Amount	50.000		Recovery	=	74.46%	

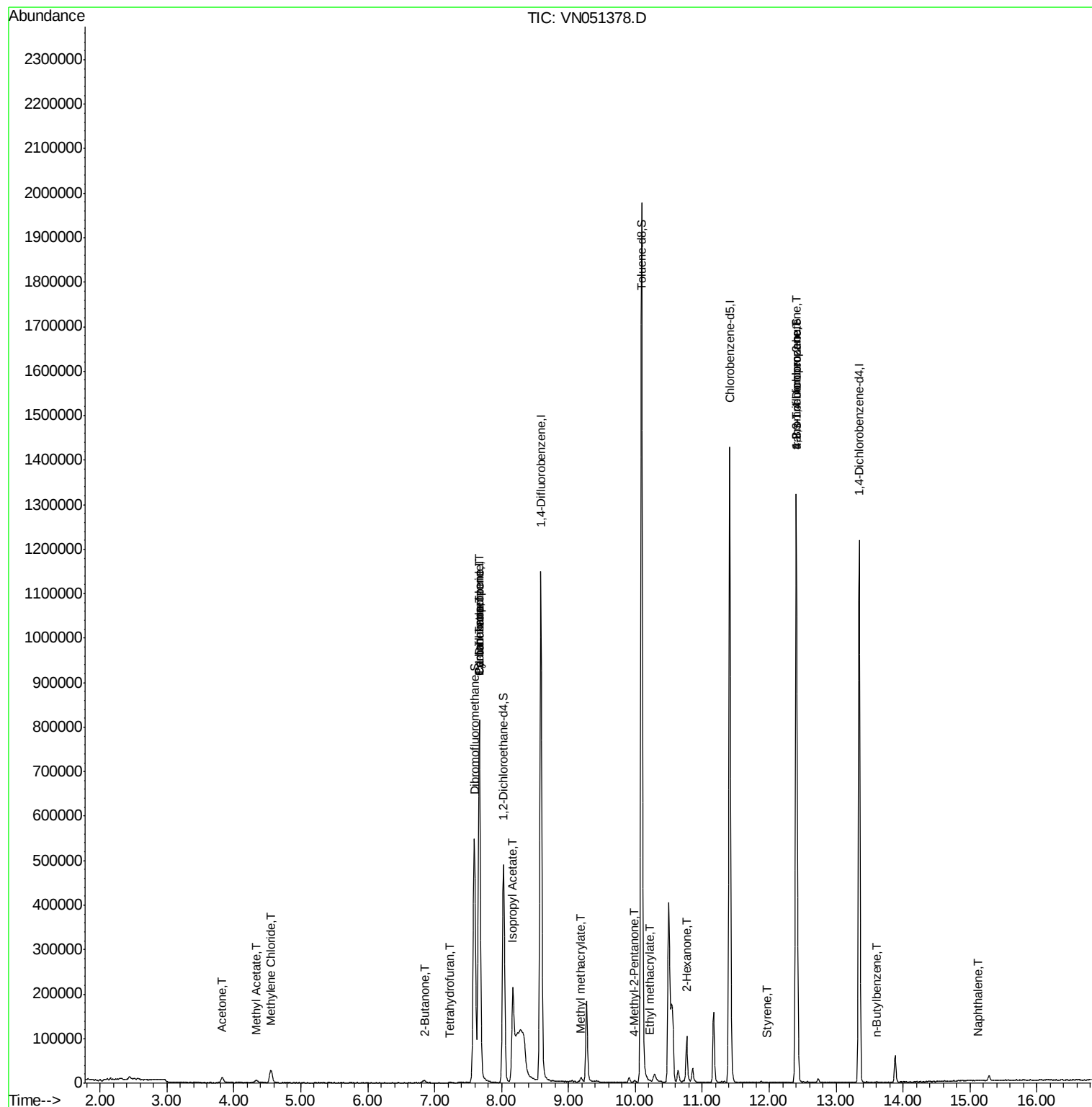
Target Compounds

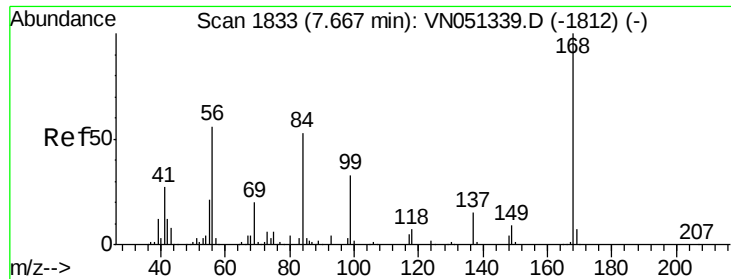
					Qvalue
3) Chloromethane	2.06	50	1015	Below Cal	# 85
16) Acetone	3.82	43	19455	10.712	ug/l 98
18) Methyl Acetate	4.33	43	11721	1.378	ug/l 99
20) Methylene Chloride	4.55	84	22804	2.707	ug/l 92
25) 2-Butanone	6.86	43	4868	2.079	ug/l 93
29) Tetrahydrofuran	7.23	42	1353	0.912	ug/l # 74
31) Cyclohexane	7.67	56	10872	0.450	ug/l # 1
36) 1,1-Dichloropropene	7.66	75	44866	3.926	ug/l # 48
38) Carbon Tetrachloride	7.67	117	62477	5.053	ug/l # 17
43) Isopropyl Acetate	8.17	43	286371	28.900	ug/l # 88
48) Methyl methacrylate	9.18	41	5488	1.086	ug/l # 9
51) 4-Methyl-2-Pentanone	9.98	43	2292	0.430	ug/l # 80
56) Ethyl methacrylate	10.23	69	1792	1.757	ug/l # 62
59) 2-Hexanone	10.76	43	14401	4.007	ug/l # 54
70) Styrene	11.97	104	303	0.906	ug/l # 34
75) 1,1,2,2-Tetrachloroethane	12.42	83	205	Below Cal	# 26
76) 1,2,3-Trichloropropane	12.40	75	192234	38.812	ug/l # 100
81) trans-1,4-Dichloro-2-buten	12.40	75	192234	116.597	ug/l # 14
89) n-Butylbenzene	13.61	91	114	1.434	ug/l # 33
95) Naphthalene	15.12	128	120	5.340	ug/l # 69

(#) = 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# 1834

Delta R.T. 0.00 min

Lab File: VN051378.D

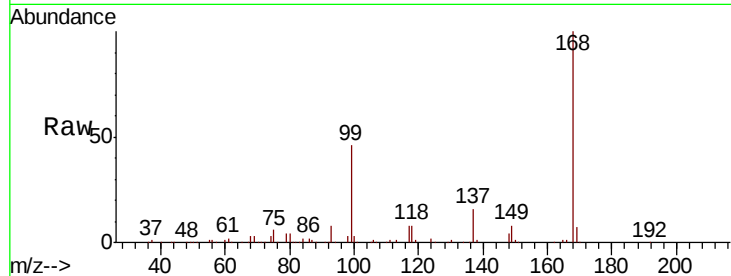
Acq: 21 Sep 2018 19:02

Tot Ion:168 Resp: 756056

Ion Ratio Lower Upper

168 100

99 46.3 37.1 55.7



Abundance Ion 167.90 (167.60 to 168.60): VN051339.D (-1812) (-)

Ion 98.90 (98.60 to 99.60): VN051339.D (-1812) (-)

7.67

300000

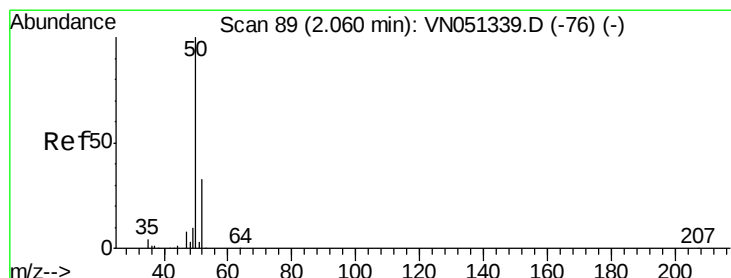
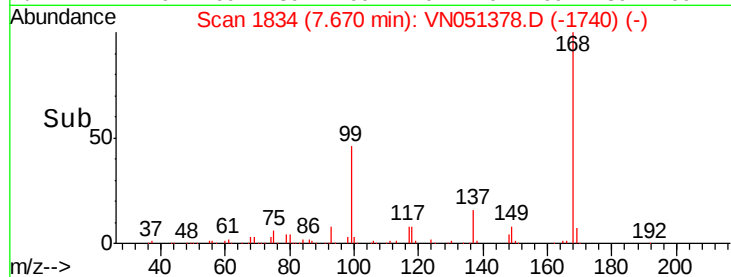
200000

100000

0

Time-->

7.60 7.70 7.80



#3

Chloromethane

Concen: Below Cal

RT: 2.06 min Scan# 89

Delta R.T. 0.00 min

Lab File: VN051378.D

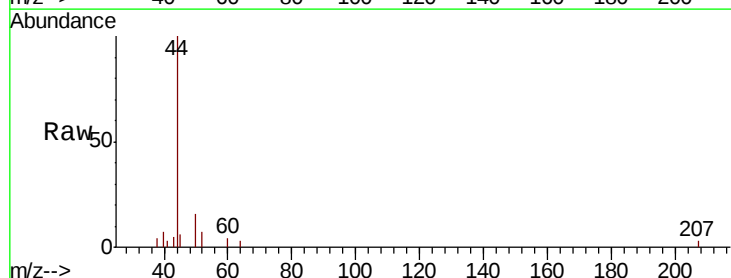
Acq: 21 Sep 2018 19:02

Tgt Ion: 50 Resp: 1015

Ion Ratio Lower Upper

50 100

52 42.0 26.7 40.1#



Abundance Ion 49.90 (49.60 to 50.60): VN051339.D (-76) (-)

Ion 51.90 (51.60 to 52.60): VN051339.D (-76) (-)

2.06

1000

800

600

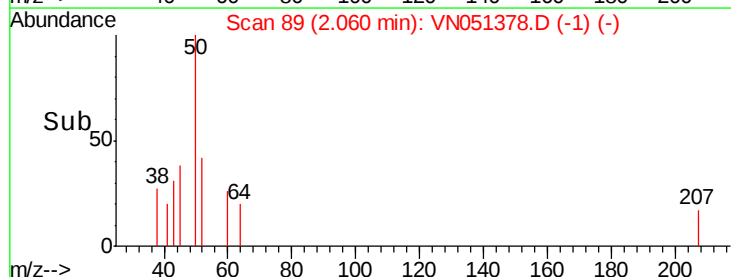
400

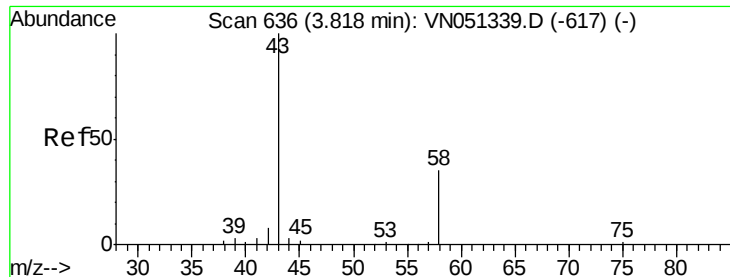
200

0

Time-->

2.02 2.04 2.06 2.08





#16

Acetone

Concen: 10.712 ug/l

RT: 3.82 min Scan# 637

Delta R.T. 0.00 min

Lab File: VN051378.D

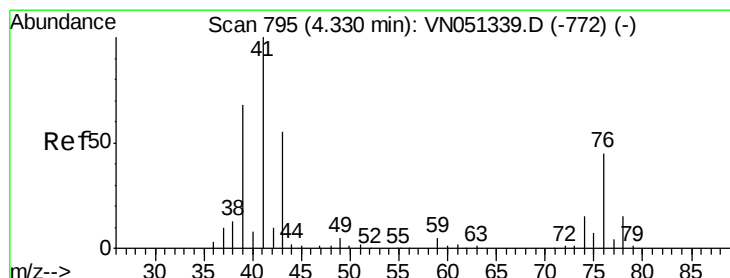
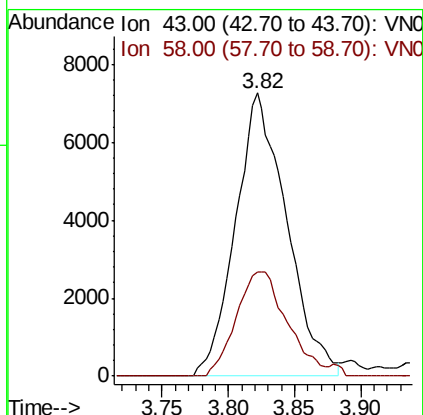
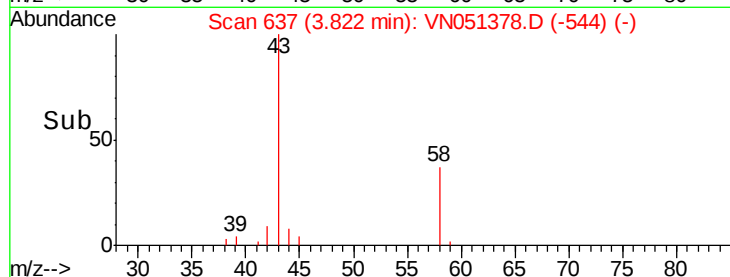
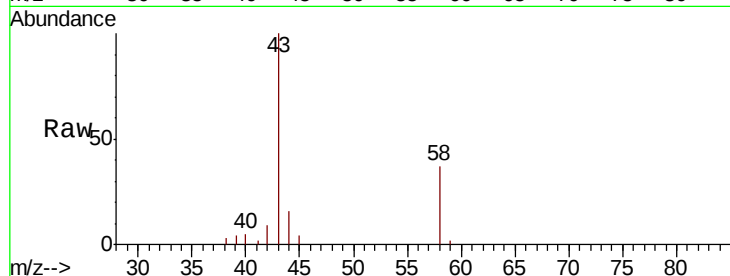
Acq: 21 Sep 2018 19:02

Tot Ion: 43 Resp: 19455

Ion Ratio Lower Upper

43 100

58 36.7 28.3 42.5



#18

Methyl Acetate

Concen: 1.378 ug/l

RT: 4.33 min Scan# 796

Delta R.T. 0.00 min

Lab File: VN051378.D

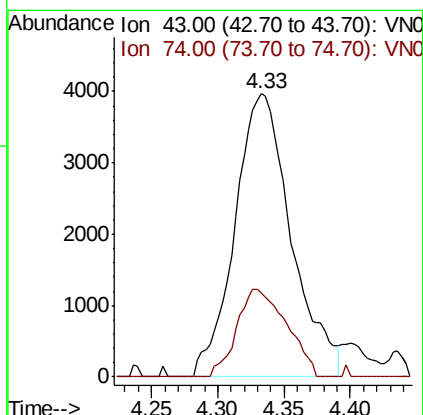
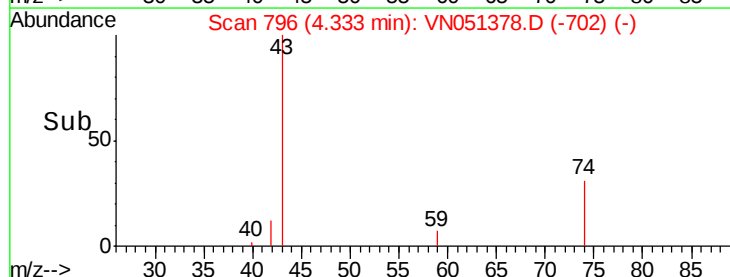
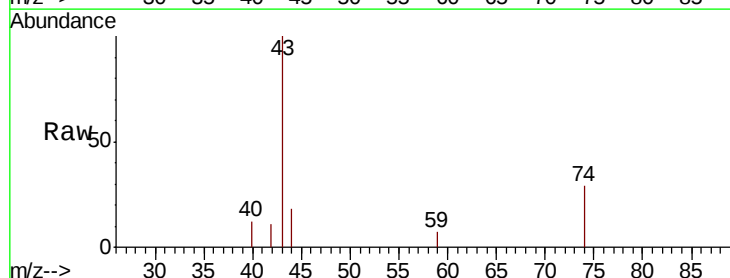
Acq: 21 Sep 2018 19:02

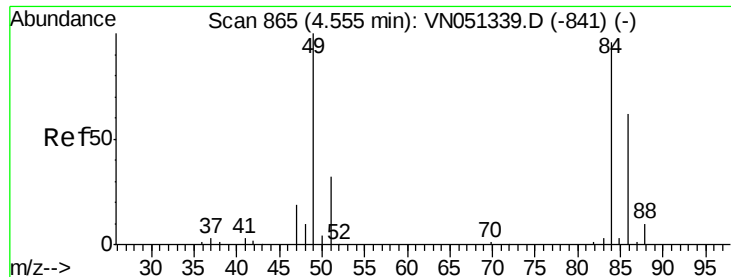
Tgt Ion: 43 Resp: 11721

Ion Ratio Lower Upper

43 100

74 27.4 21.7 32.5

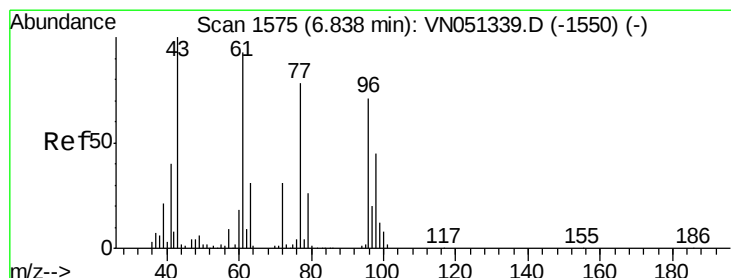
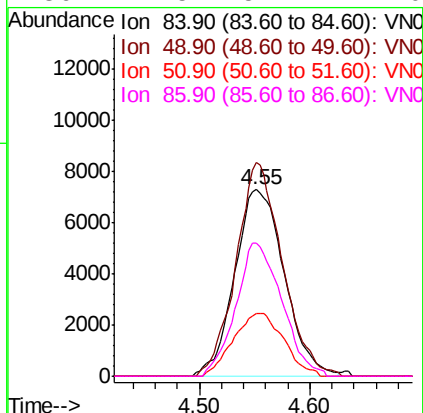
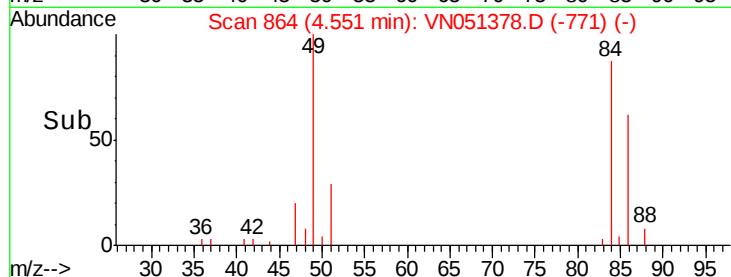
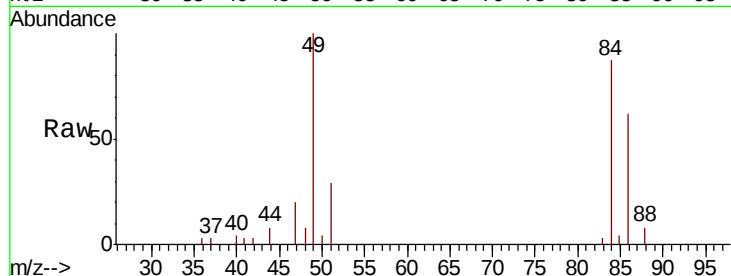




#20
Methvlene Chloride
Concen: 2.707 ug/l
RT: 4.55 min Scan# 864
Delta R.T. -0.00 min
Lab File: VN051378.D
Acq: 21 Sep 2018 19:02

Tot Ion: 84 Resp: 22804

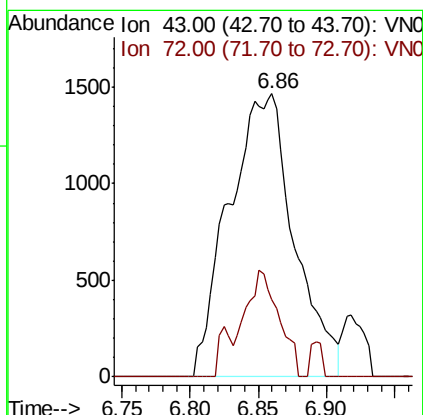
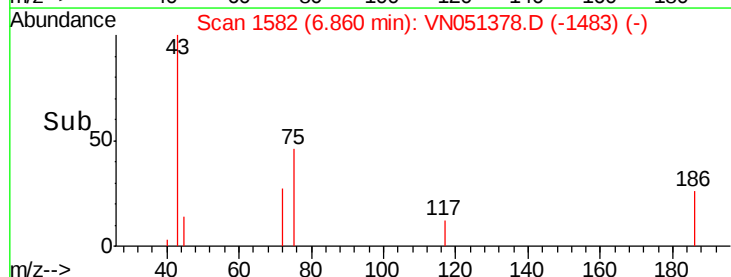
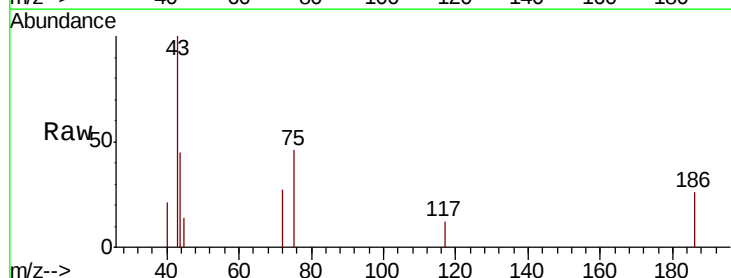
Ion	Ratio	Lower	Upper
84	100		
49	114.5	83.2	124.8
51	33.3	26.4	39.6
86	71.5	51.4	77.0

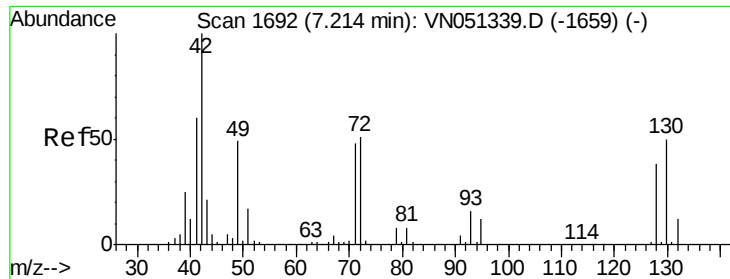


#25
2-Butanone
Concen: 2.079 ug/l
RT: 6.86 min Scan# 1582
Delta R.T. 0.02 min
Lab File: VN051378.D
Acq: 21 Sep 2018 19:02

Tgt Ion: 43 Resp: 4868

Ion	Ratio	Lower	Upper
43	100		
72	27.3	24.7	37.1





#29

Tetrahydrofuran

Concen: 0.912 ug/l

RT: 7.23 min Scan# 1696

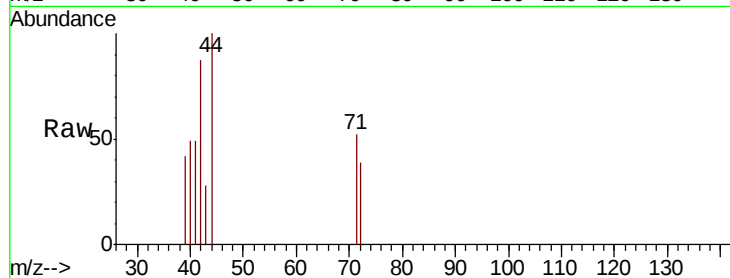
Delta R.T. 0.01 min

Lab File: VN051378.D

Acq: 21 Sep 2018 19:02

Tot Ion: 42 Resp: 1353

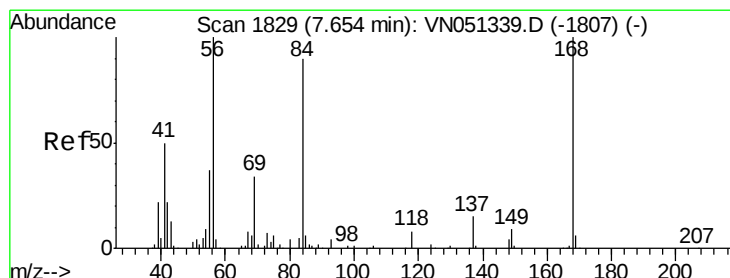
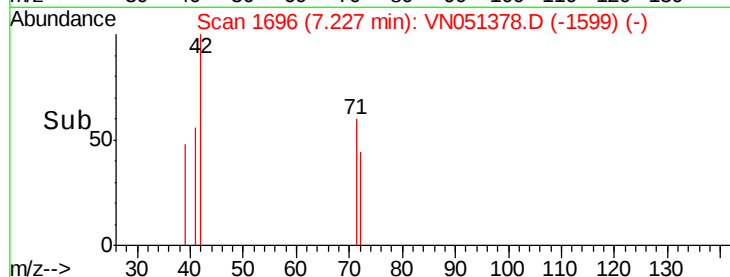
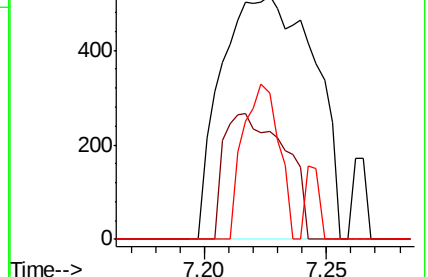
Ion	Ratio	Lower	Upper
42	100		
72	34.4	39.0	58.4#
71	24.5	36.5	54.7#



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: 0.450 ug/l

RT: 7.67 min Scan# 1833

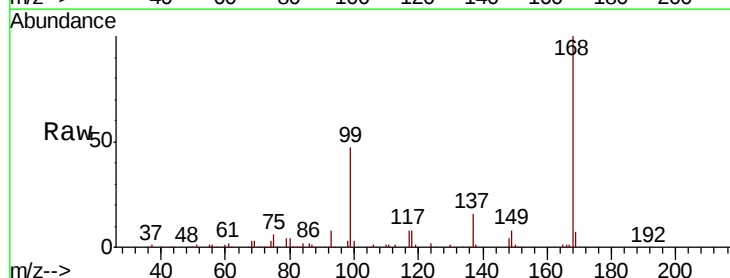
Delta R.T. 0.01 min

Lab File: VN051378.D

Acq: 21 Sep 2018 19:02

Tgt Ion: 56 Resp: 10872

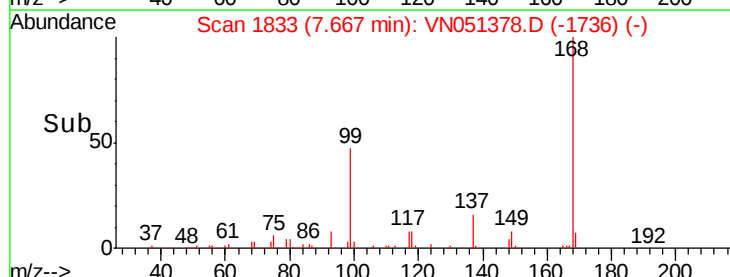
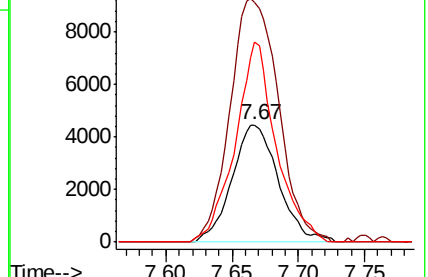
Ion	Ratio	Lower	Upper
56	100		
69	204.7	27.3	40.9#
84	170.9	72.2	108.2#

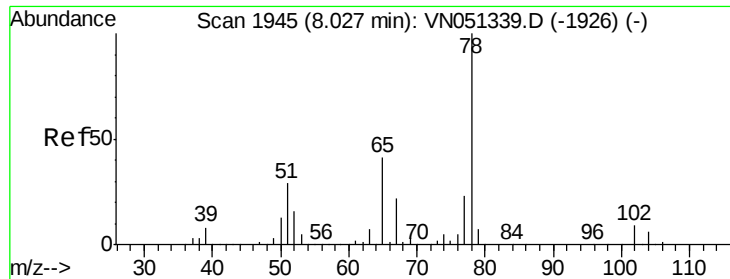


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

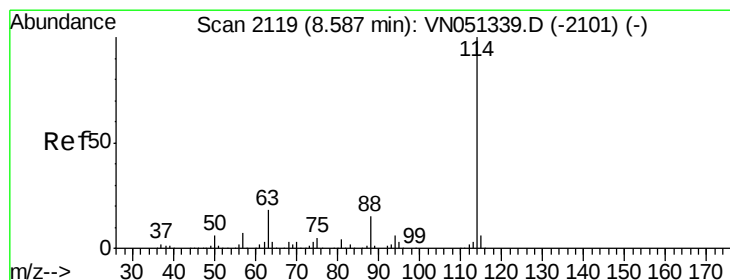
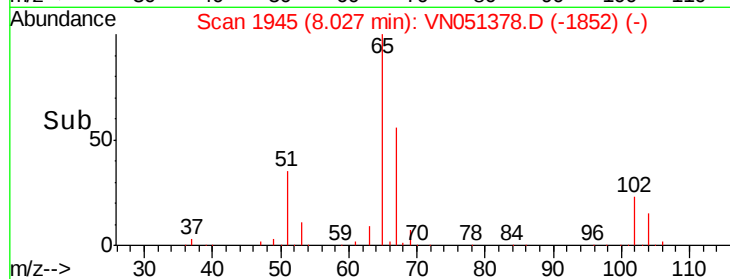
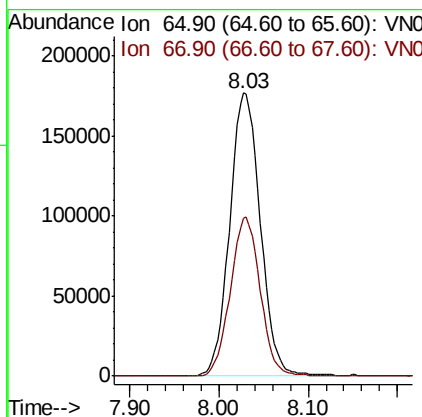
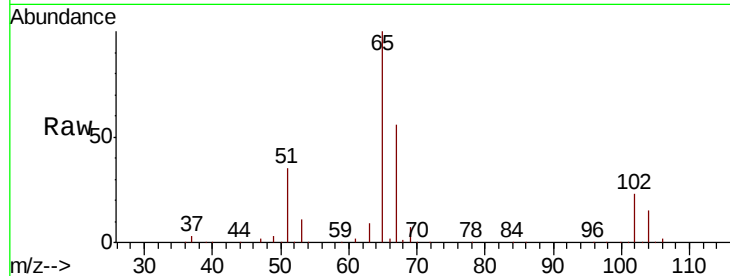
Ion 84.00 (83.70 to 84.70): VN0





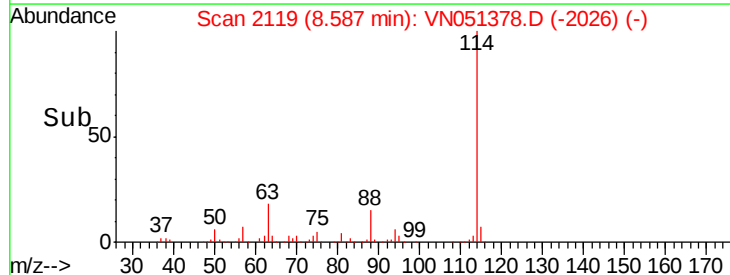
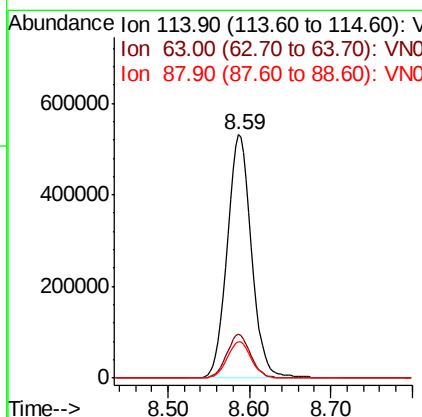
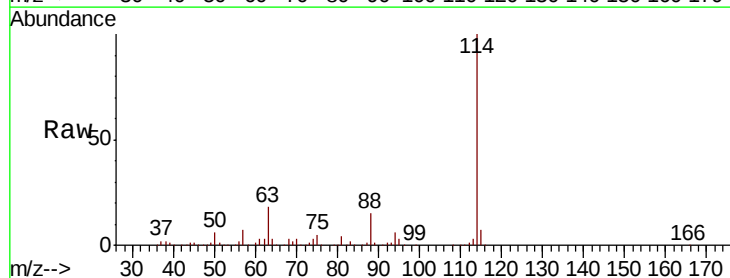
#33
 1,2-Dichloroethane-d4
 Concen: 51.383 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. -0.00 min
 Lab File: VN051378.D
 Acq: 21 Sep 2018 19:02

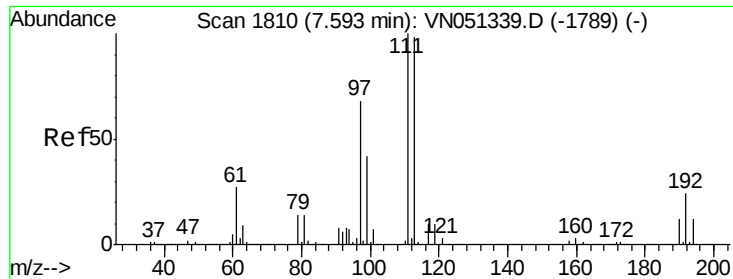
Tot Ion: 65 Resp: 421058
 Ion Ratio Lower Upper
 65 100
 67 54.7 0.0 108.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN051378.D
 Acq: 21 Sep 2018 19:02

Tgt Ion: 114 Resp: 1117337
 Ion Ratio Lower Upper
 114 100
 63 17.9 0.0 36.6
 88 15.1 0.0 29.8





#35

Dibromofluoromethane

Concen: 46.517 ug/l

RT: 7.59 min Scan# 1810

Delta R.T. -0.00 min

Lab File: VN051378.D

Acq: 21 Sep 2018 19:02

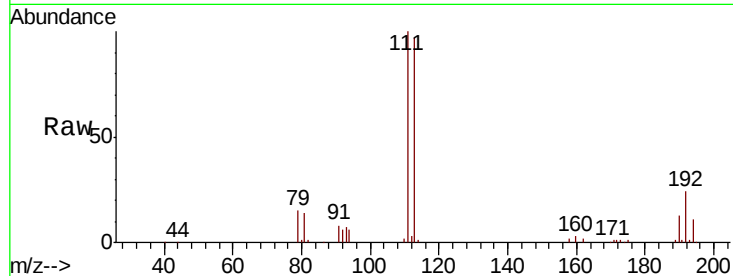
Tot Ion:113 Resp: 420029

Ion Ratio Lower Upper

113 100

111 101.7 81.9 122.9

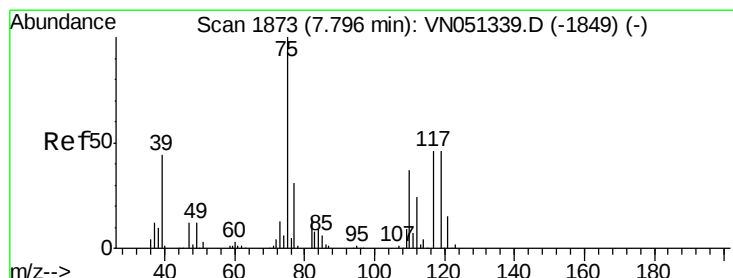
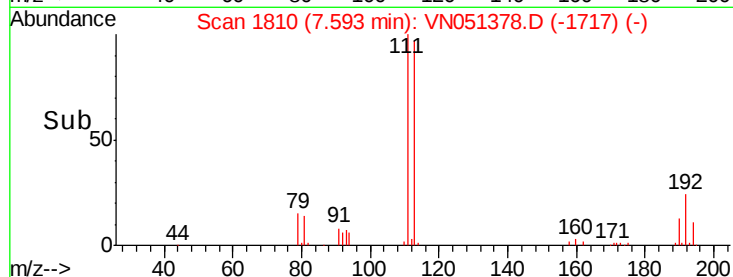
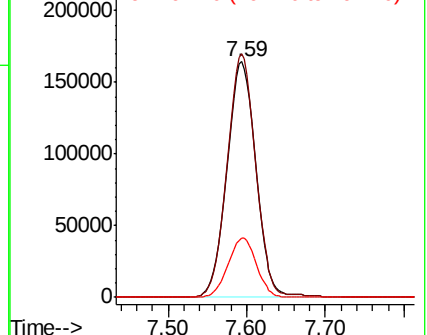
192 24.6 19.8 29.6



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: 3.926 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.13 min

Lab File: VN051378.D

Acq: 21 Sep 2018 19:02

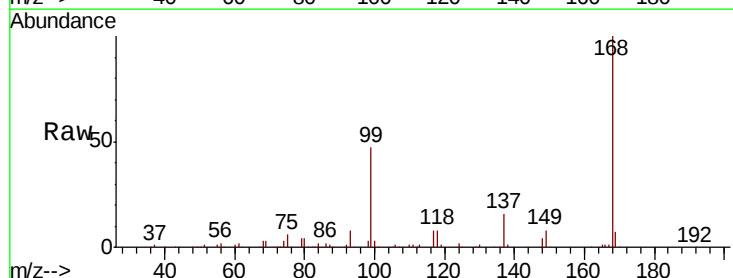
Tgt Ion: 75 Resp: 44866

Ion Ratio Lower Upper

75 100

110 8.7 18.9 56.5#

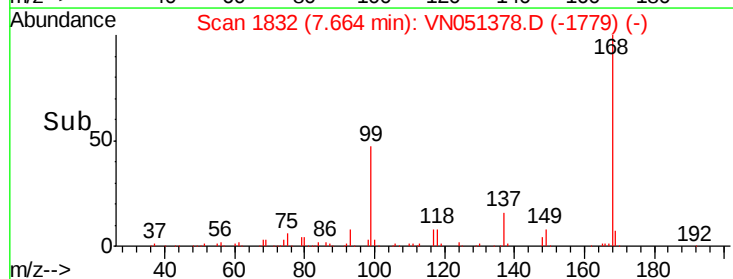
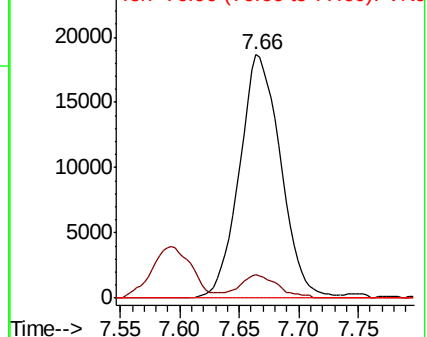
77 0.0 25.4 38.2#

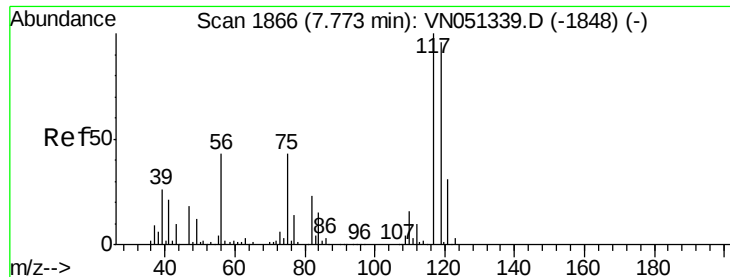


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VN0





#38

Carbon Tetrachloride

Concen: 5.053 ug/l

RT: 7.67 min Scan# 1834

Delta R.T. -0.10 min

Lab File: VN051378.D

Acq: 21 Sep 2018 19:02

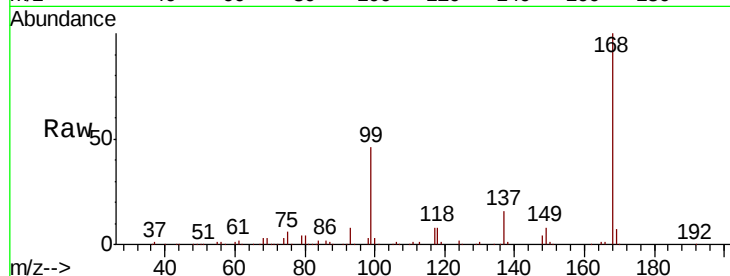
Tot Ion:117 Resp: 62477

Ion Ratio Lower Upper

117 100

119 6.3 77.0 115.4#

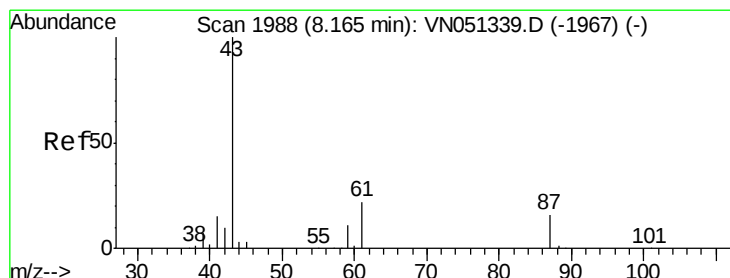
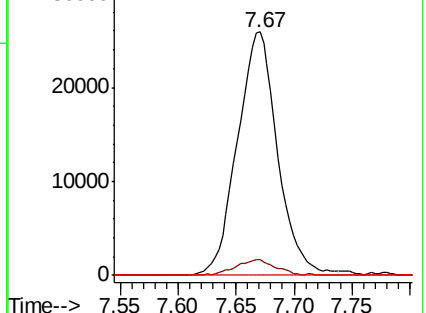
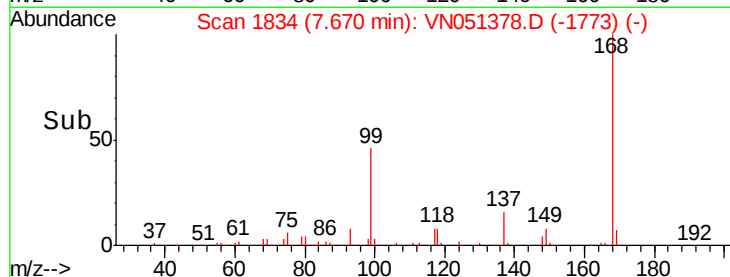
121 0.0 25.0 37.4#



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: 28.900 ug/l

RT: 8.17 min Scan# 1989

Delta R.T. 0.00 min

Lab File: VN051378.D

Acq: 21 Sep 2018 19:02

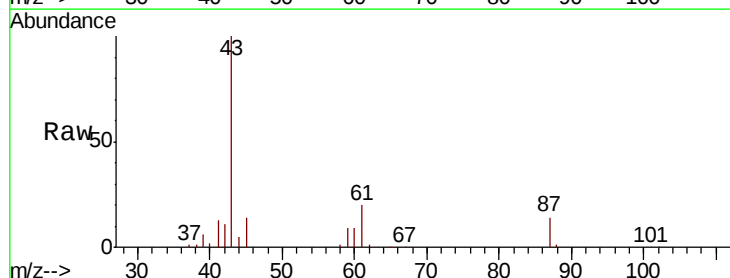
Tgt Ion: 43 Resp: 286371

Ion Ratio Lower Upper

43 100

61 16.3 18.1 27.1#

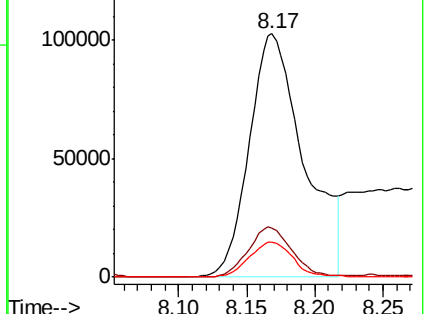
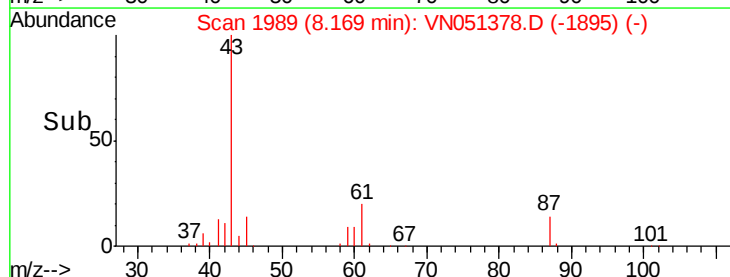
87 11.5 12.8 19.2#

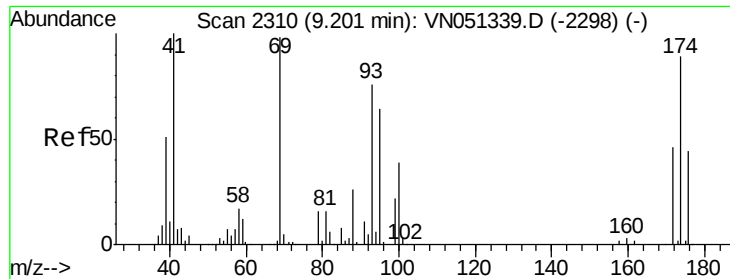


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V





#48

Methyl methacrylate

Concen: 1.086 ug/l

RT: 9.18 min Scan# 2303

Delta R.T. -0.02 min

Lab File: VN051378.D

Acq: 21 Sep 2018 19:02

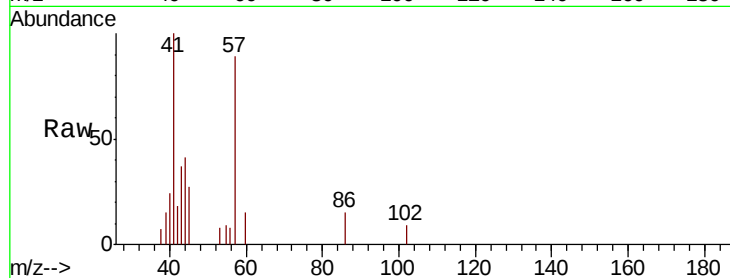
Tot Ion: 41 Resp: 5488

Ion Ratio Lower Upper

41 100

69 0.0 79.4 119.0#

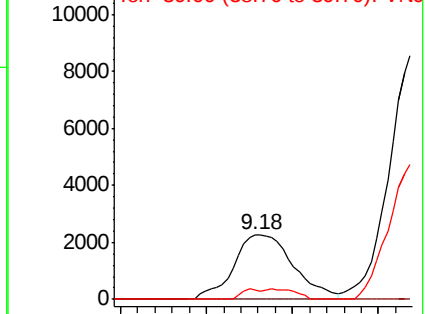
39 0.0 43.0 64.6#



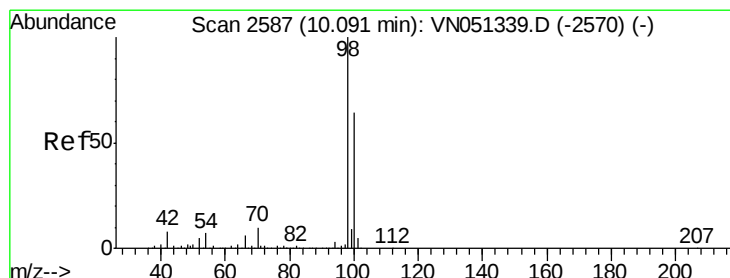
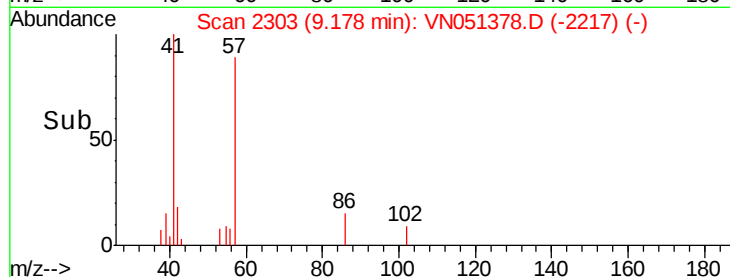
Abundance Ion 41.00 (40.70 to 41.70): VN051339.D (-2298) (-)

Ion 69.00 (68.70 to 69.70): VN051339.D (-2298) (-)

Ion 39.00 (38.70 to 39.70): VN051339.D (-2298) (-)



Time-->



#50

Toluene-d8

Concen: 43.117 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN051378.D

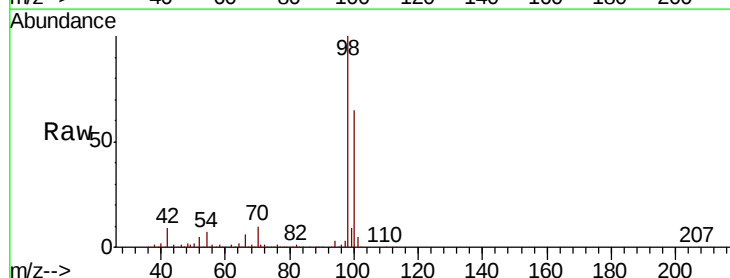
Acq: 21 Sep 2018 19:02

Tgt Ion: 98 Resp: 1496690

Ion Ratio Lower Upper

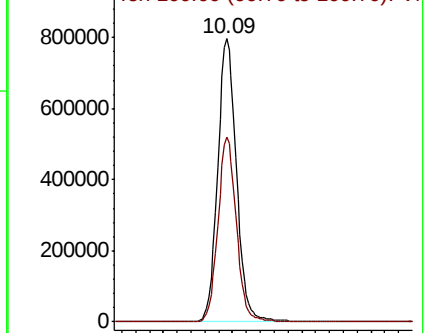
98 100

100 64.1 51.3 76.9

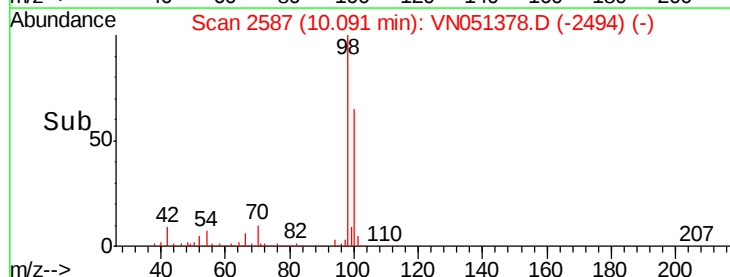


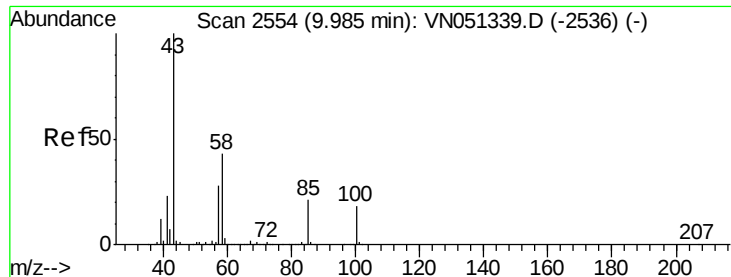
Abundance Ion 98.00 (97.70 to 98.70): VN051339.D (-2570) (-)

Ion 100.00 (99.70 to 100.70): VN051339.D (-2570) (-)



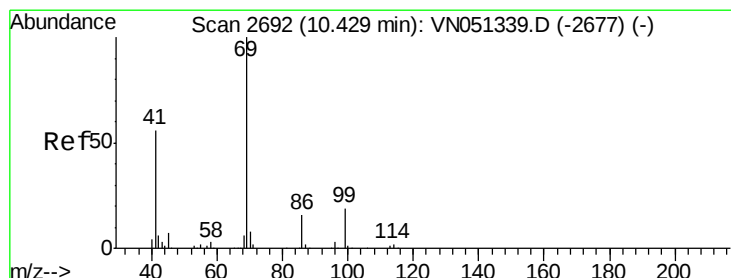
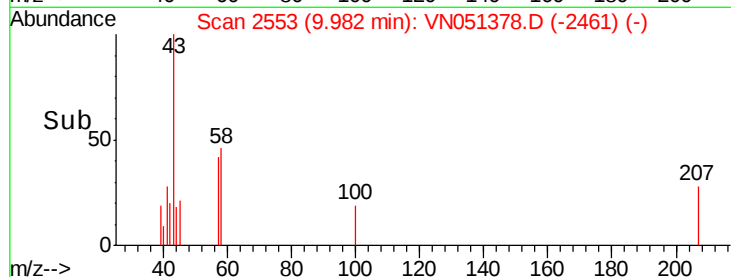
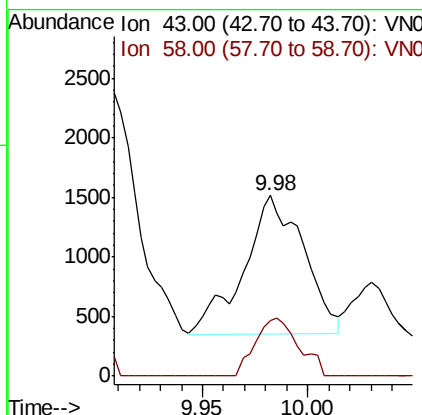
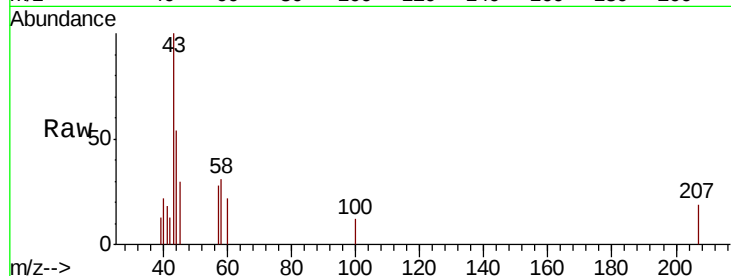
Time-->





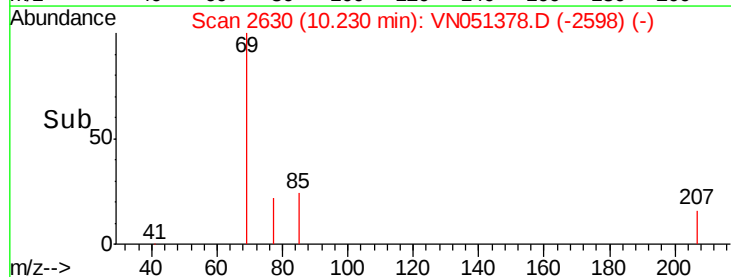
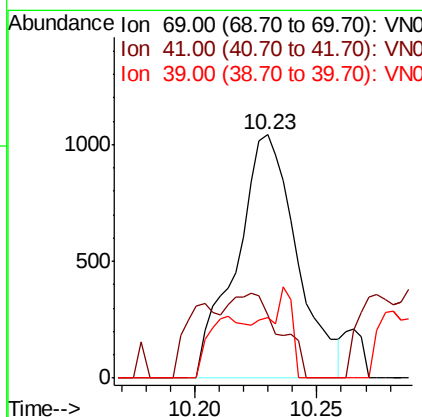
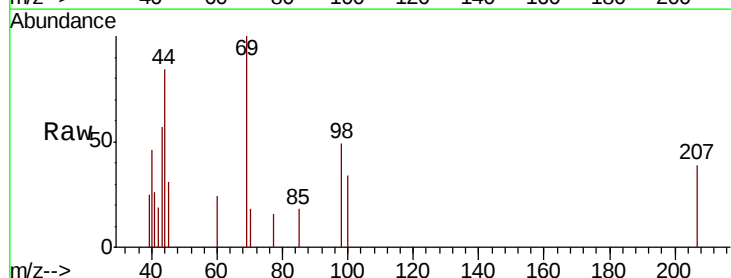
#51
 4-Methyl-2-Pentanone
 Concen: 0.430 ug/l
 RT: 9.98 min Scan# 2553
 Delta R.T. -0.00 min
 Lab File: VN051378.D
 Acq: 21 Sep 2018 19:02

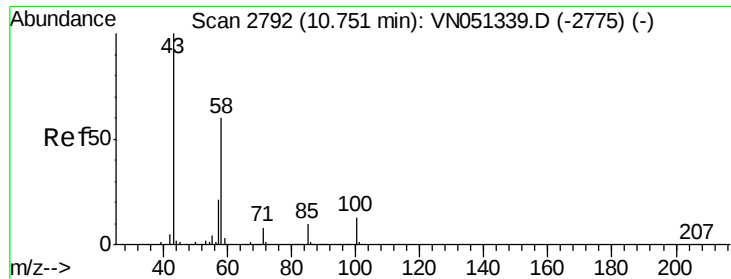
Tot Ion: 43 Resp: 2292
 Ion Ratio Lower Upper
 43 100
 58 30.3 34.2 51.4#



#56
 Ethyl methacrylate
 Concen: 1.757 ug/l
 RT: 10.23 min Scan# 2630
 Delta R.T. -0.20 min
 Lab File: VN051378.D
 Acq: 21 Sep 2018 19:02

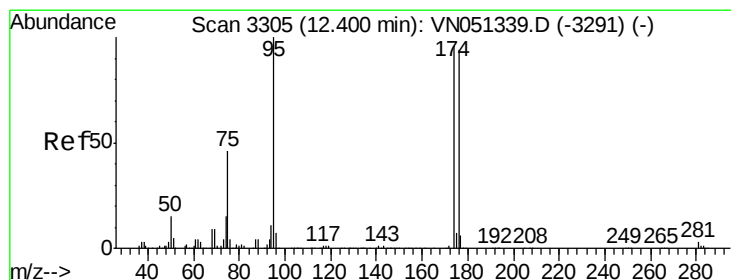
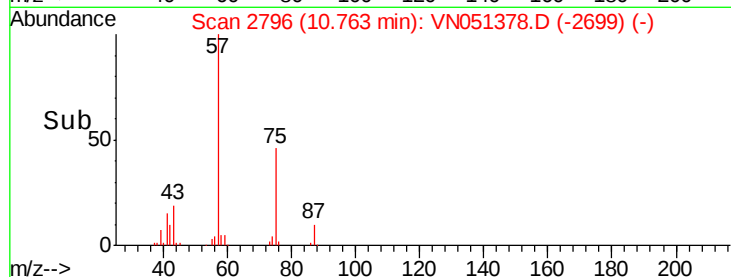
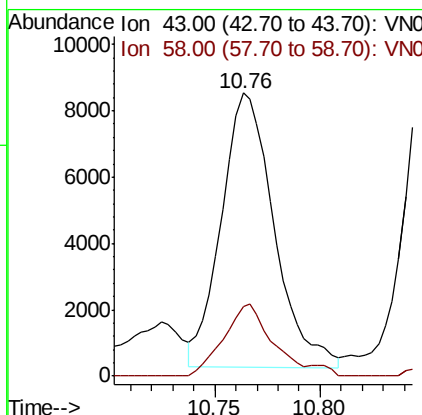
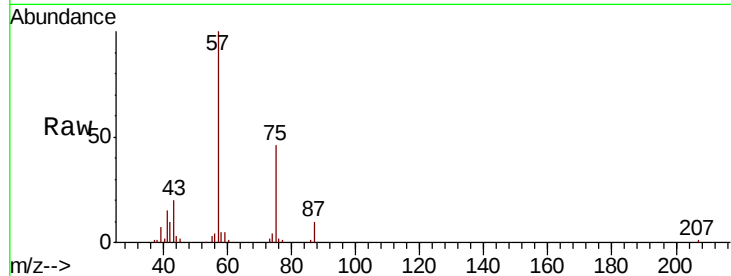
Tgt Ion: 69 Resp: 1792
 Ion Ratio Lower Upper
 69 100
 41 29.2 45.1 67.7#
 39 7.8 23.4 35.2#





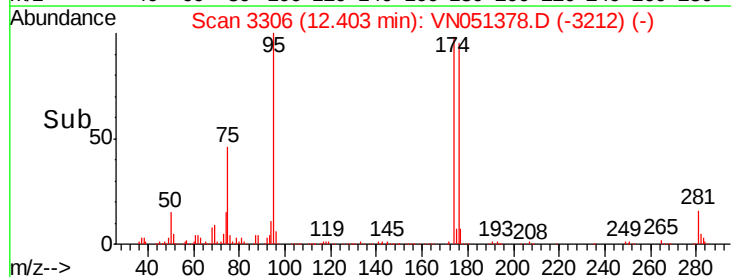
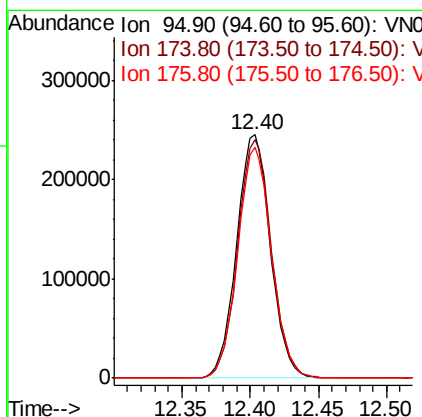
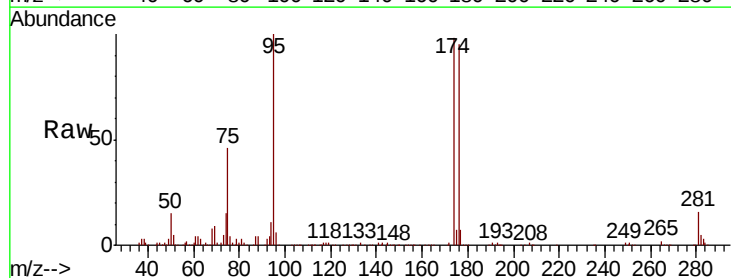
#59
2-Hexanone
Concen: 4.007 ug/l
RT: 10.76 min Scan# 2796
Delta R.T. 0.01 min
Lab File: VN051378.D
Acq: 21 Sep 2018 19:02

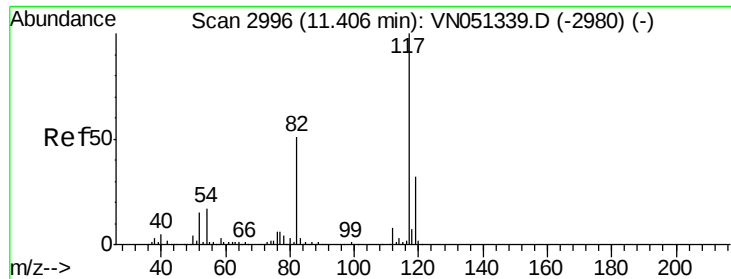
Tot Ion: 43 Resp: 14401
Ion Ratio Lower Upper
43 100
58 25.2 29.9 89.8#



#62
4-Bromofluorobenzene
Concen: 37.227 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN051378.D
Acq: 21 Sep 2018 19:02

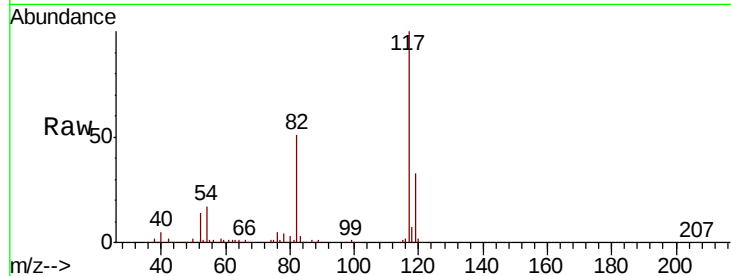
Tgt Ion: 95 Resp: 420399
Ion Ratio Lower Upper
95 100
174 98.3 0.0 194.6
176 94.8 0.0 189.6



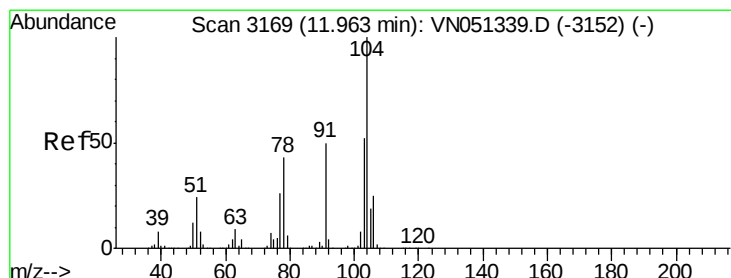
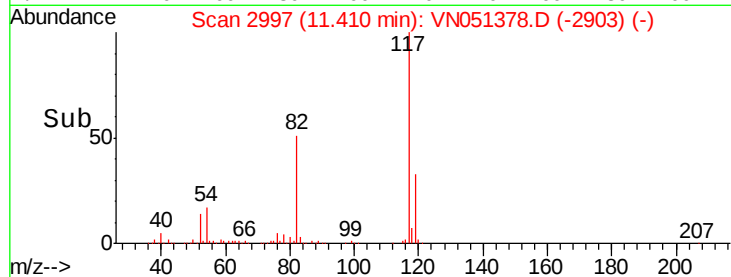
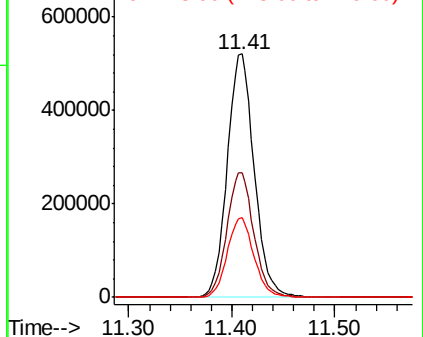


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2997
Delta R.T. 0.00 min
Lab File: VN051378.D
Acq: 21 Sep 2018 19:02

Tot Ion:117 Resp: 948313
Ion Ratio Lower Upper
117 100
82 51.3 40.7 61.1
119 32.6 25.3 37.9

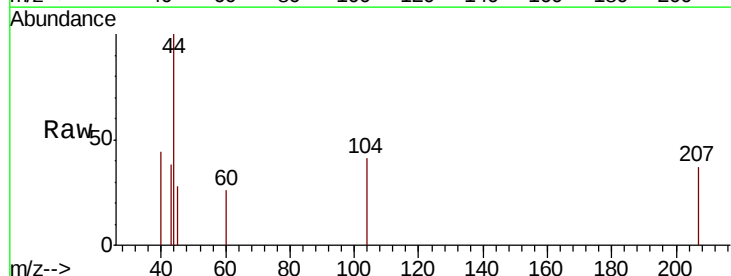


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VN0
Ion 118.90 (118.60 to 119.60): V

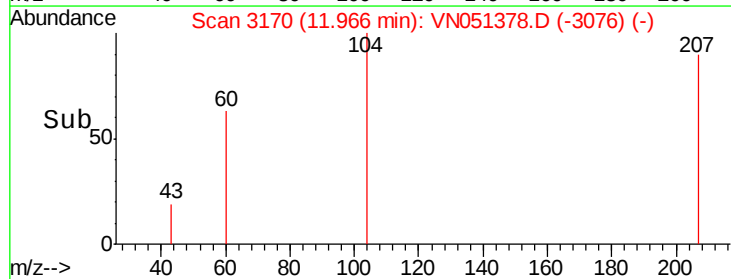
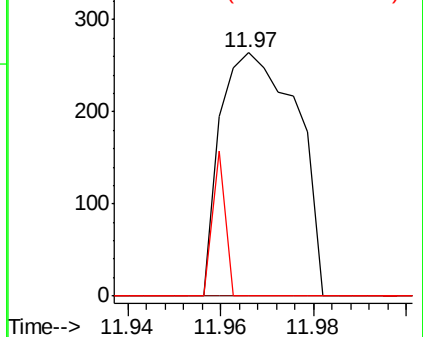


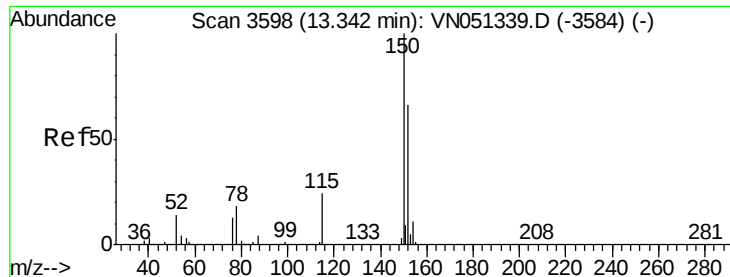
#70
Styrene
Concen: 0.906 ug/l
RT: 11.97 min Scan# 3170
Delta R.T. 0.00 min
Lab File: VN051378.D
Acq: 21 Sep 2018 19:02

Tgt Ion:104 Resp: 303
Ion Ratio Lower Upper
104 100
78 0.0 37.8 56.6#
103 9.9 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





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN051378.D

Acq: 21 Sep 2018 19:02

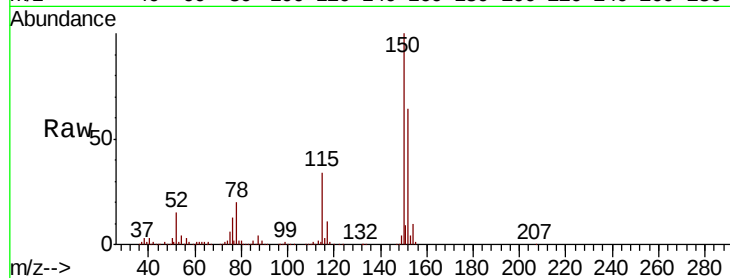
Tot Ion:152 Resp: 369642

Ion Ratio Lower Upper

152 100

115 53.9 26.9 80.7

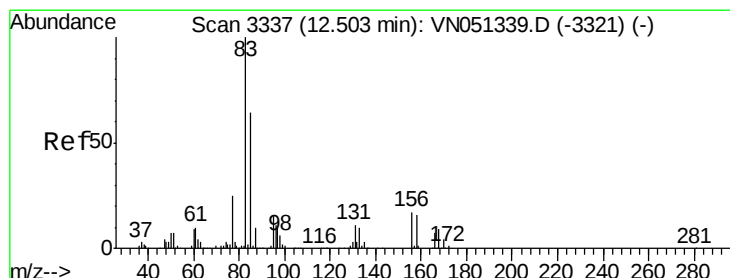
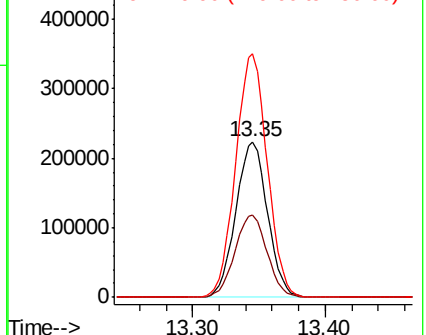
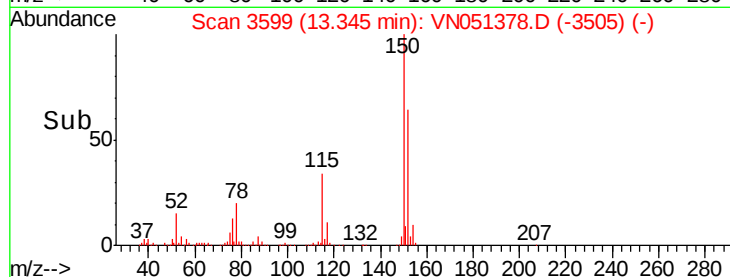
150 156.5 0.0 345.0



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: 12.42 min Scan# 3311

Delta R.T. -0.08 min

Lab File: VN051378.D

Acq: 21 Sep 2018 19:02

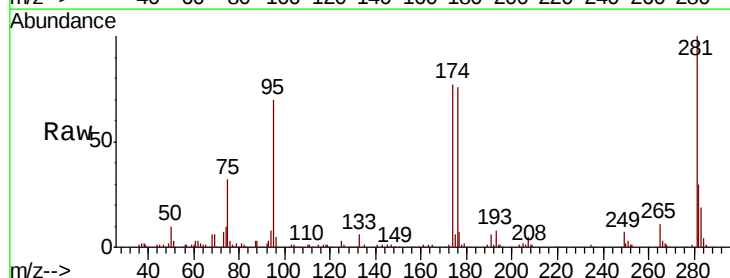
Tgt Ion: 83 Resp: 205

Ion Ratio Lower Upper

83 100

131 0.0 5.5 16.7#

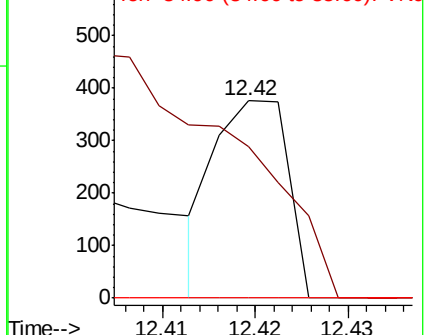
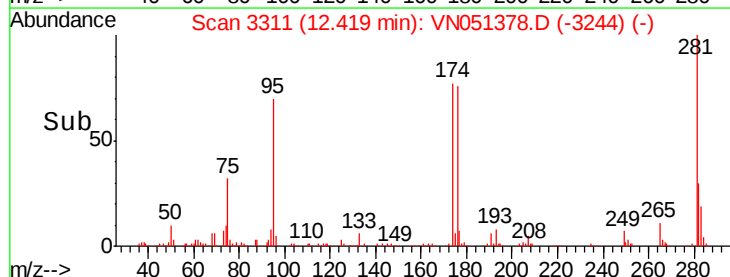
85 0.0 32.3 96.9#

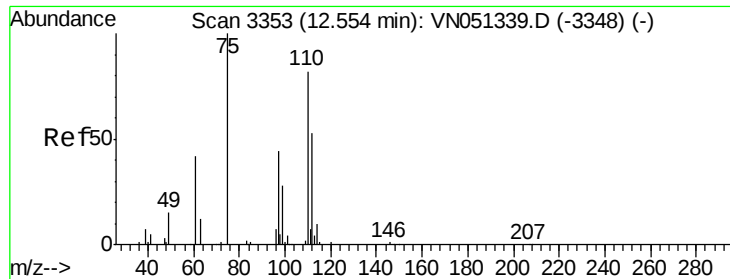


Abundance Ion 82.90 (82.60 to 83.60): V

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): V

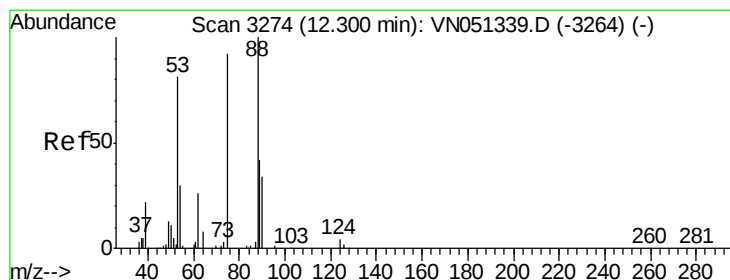
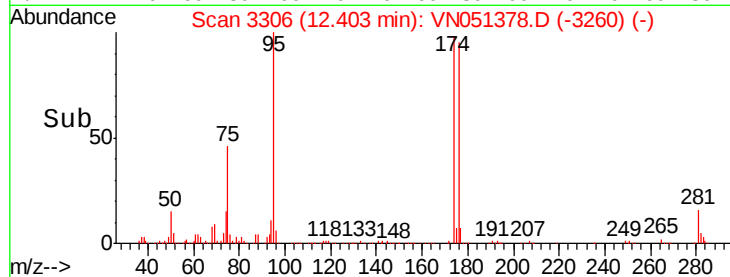
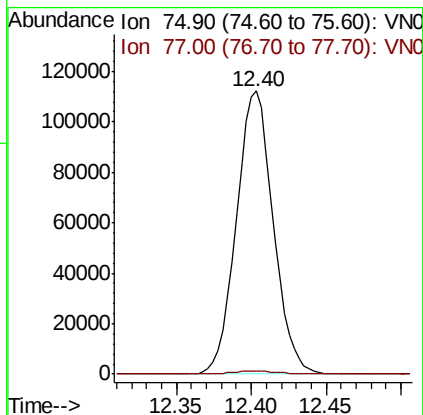
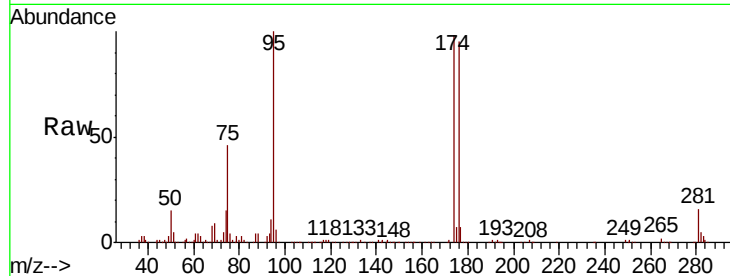




#76

1,2,3-Trichloropropane
Concen: 38.812 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. -0.15 min
Lab File: VN051378.D
Acq: 21 Sep 2018 19:02

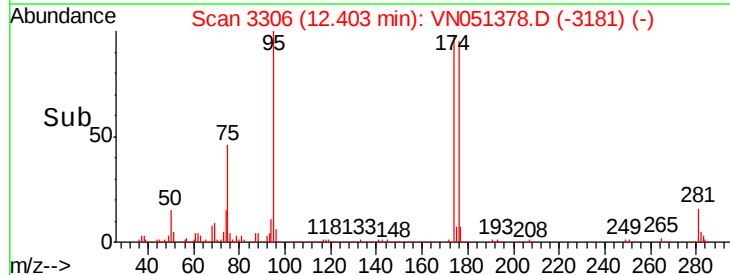
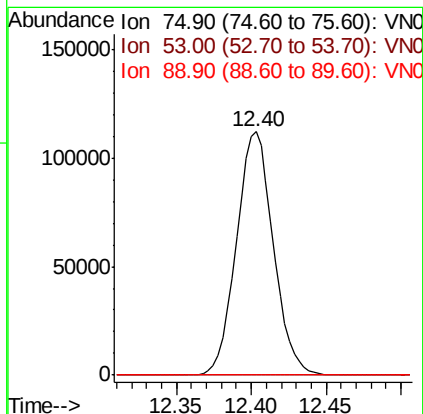
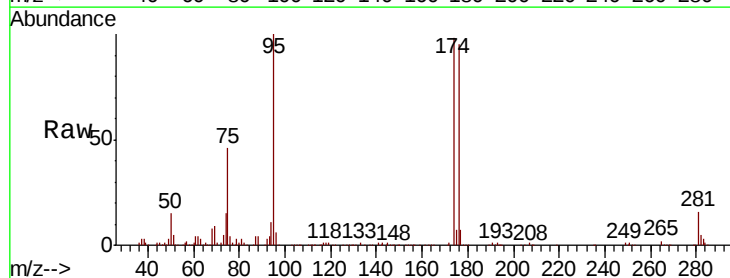
Tot Ion: 75 Resp: 192234
Ion Ratio Lower Upper
75 100
77 1.3 0.0 0.0#

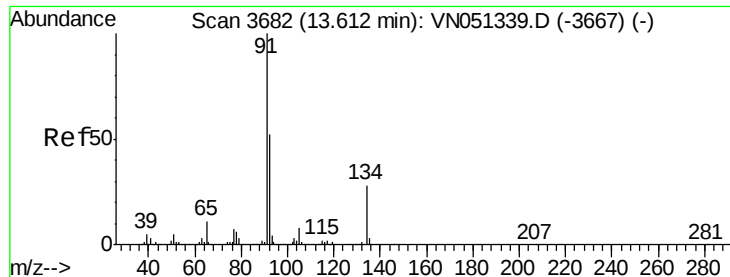


#81

trans-1,4-Dichloro-2-butene
Concen: 116.597 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.10 min
Lab File: VN051378.D
Acq: 21 Sep 2018 19:02

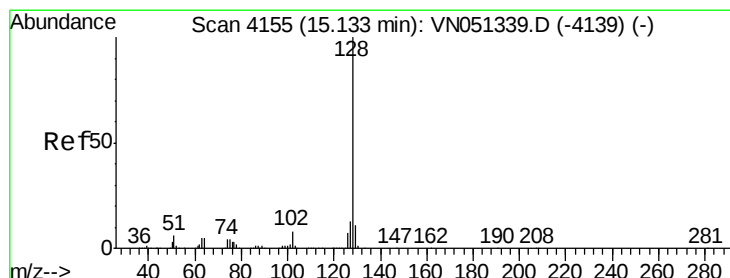
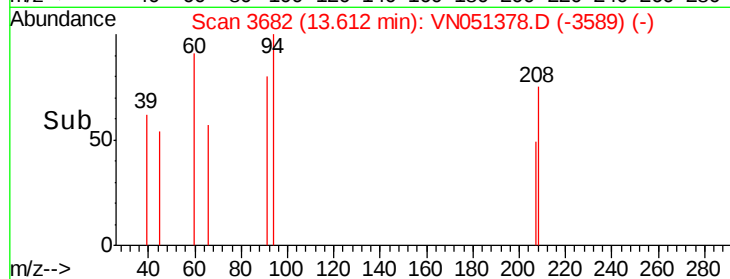
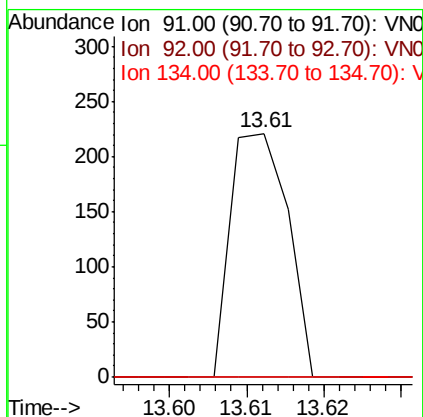
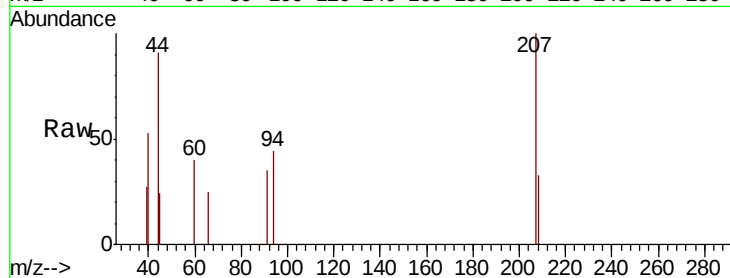
Tgt Ion: 75 Resp: 192234
Ion Ratio Lower Upper
75 100
53 0.2 69.9 104.9#
89 0.3 37.9 56.9#





#89
n-Butylbenzene
Concen: 1.434 ug/l
RT: 13.61 min Scan# 3682
Delta R.T. 0.00 min
Lab File: VN051378.D
Acq: 21 Sep 2018 19:02

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



#95
Naphthalene
Concen: 5.340 ug/l
RT: 15.12 min Scan# 4152
Delta R.T. -0.01 min
Lab File: VN051378.D
Acq: 21 Sep 2018 19:02

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

