

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092218\
 Data File : VN051375.D
 Acq On : 21 Sep 2018 17:49
 Operator : MD\SY
 Sample : PB113086ZHE#06
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 21 23:03:27 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	739099	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1099387	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	923180	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	349691	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	415984	51.93	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.86%	
35) Dibromofluoromethane	7.59	113	412945	46.48	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.96%	
50) Toluene-d8	10.09	98	1470941	43.07	ug/l	0.00
Spiked Amount	50.000		Recovery	=	86.14%	
62) 4-Bromofluorobenzene	12.40	95	402343	36.21	ug/l	0.00
Spiked Amount	50.000		Recovery	=	72.42%	

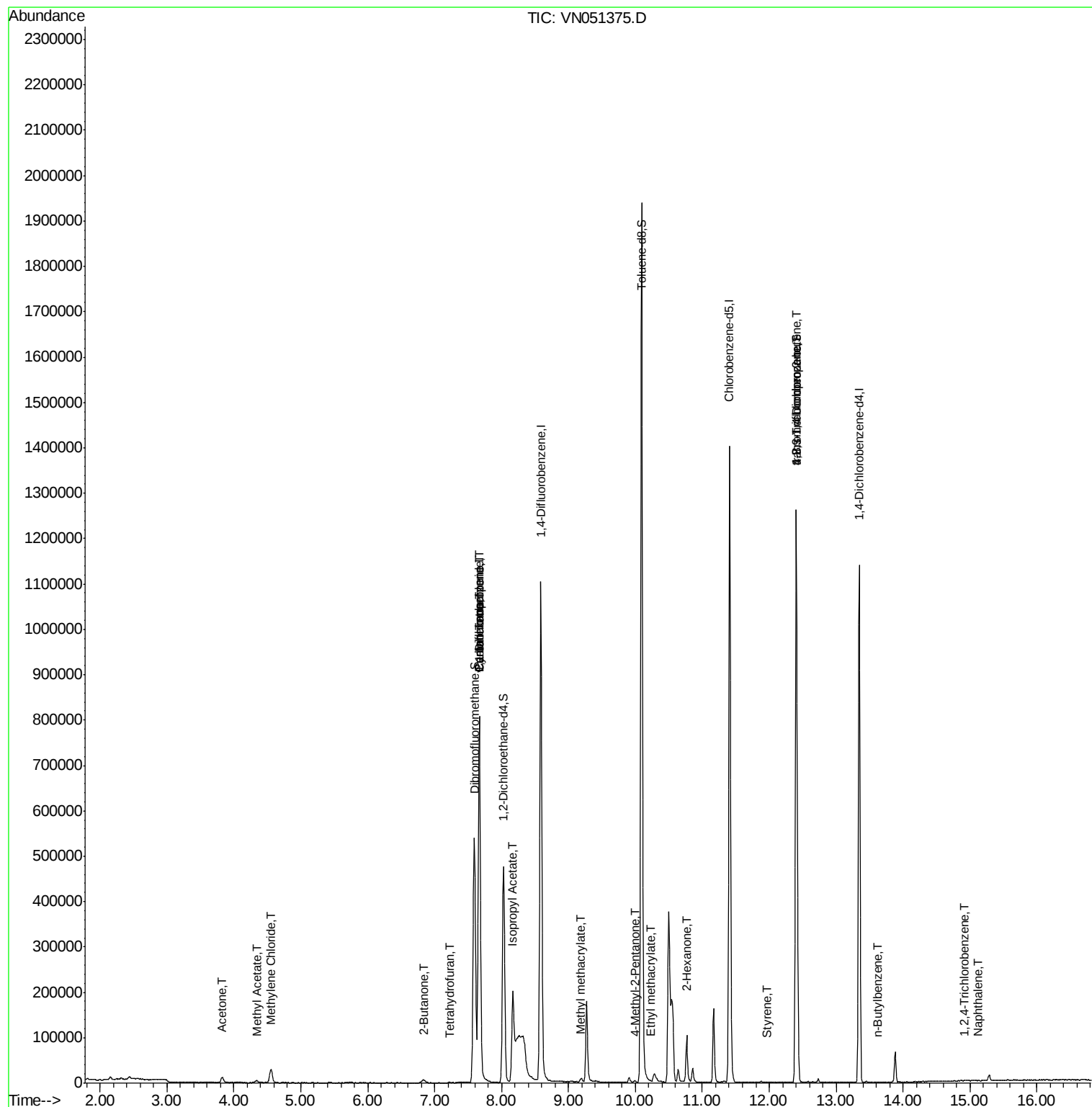
Target Compounds

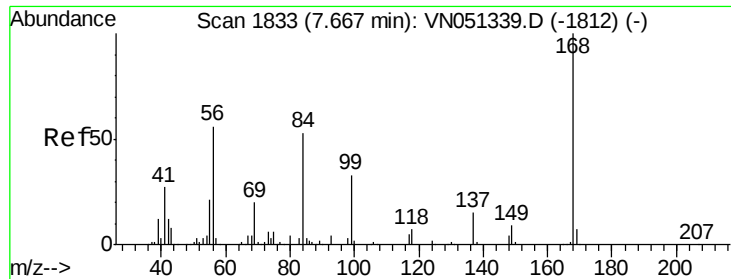
					Qvalue	
3) Chloromethane	2.06	50	839	Below Cal	#	87
16) Acetone	3.82	43	20390	11.676	ug/l	94
18) Methyl Acetate	4.33	43	8925	0.830	ug/l	96
20) Methylene Chloride	4.55	84	22407	2.721	ug/l	94
25) 2-Butanone	6.85	43	2904	1.269	ug/l	91
29) Tetrahydrofuran	7.22	42	611	0.421	ug/l #	55
31) Cyclohexane	7.67	56	10434	0.433	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	43379	3.857	ug/l #	49
38) Carbon Tetrachloride	7.67	117	60634	4.984	ug/l #	17
43) Isopropyl Acetate	8.17	43	260218	26.689	ug/l #	92
48) Methyl methacrylate	9.17	41	2411	0.485	ug/l #	25
51) 4-Methyl-2-Pentanone	9.99	43	1927	0.367	ug/l #	81
56) Ethyl methacrylate	10.23	69	1770	1.758	ug/l #	62
59) 2-Hexanone	10.76	43	12557	3.551	ug/l	64
70) Styrene	11.97	104	312	0.907	ug/l #	26
75) 1,1,2,2-Tetrachloroethane	12.39	83	165	Below Cal	#	1
76) 1,2,3-Trichloropropane	12.40	75	184771	39.463	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	184771	118.464	ug/l #	14
89) n-Butylbenzene	13.61	91	30	1.430	ug/l #	33
93) 1,2,4-Trichlorobenzene	14.91	180	61	4.107	ug/l #	87
95) Naphthalene	15.13	128	169	5.344	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# 1833

Delta R.T. -0.00 min

Lab File: VN051375.D

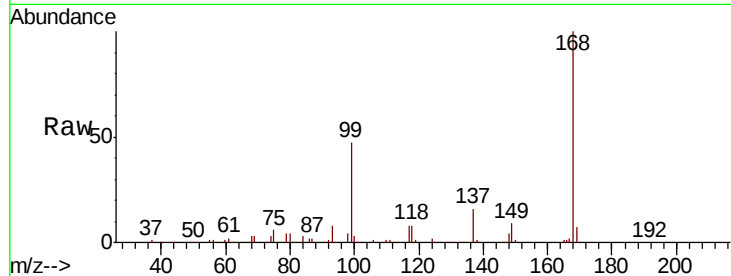
Acq: 21 Sep 2018 17:49

Tot Ion:168 Resp: 739099

Ion Ratio Lower Upper

168 100

99 47.2 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

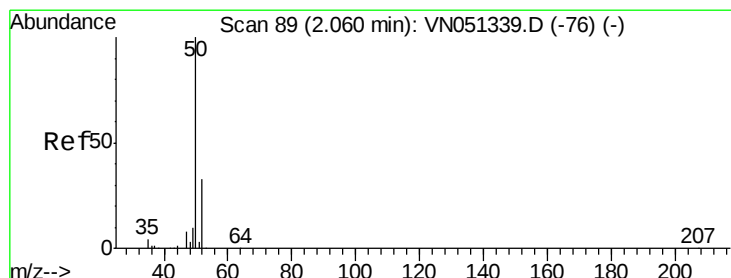
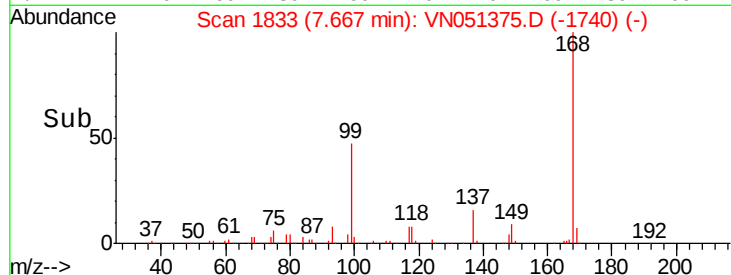
300000

200000

100000

0

Time-->



#3

Chloromethane

Concen: Below Cal

RT: 2.06 min Scan# 89

Delta R.T. 0.00 min

Lab File: VN051375.D

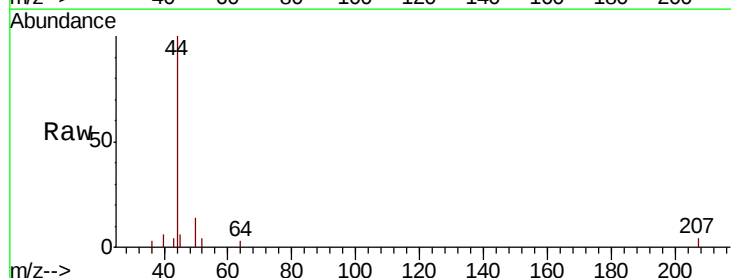
Acq: 21 Sep 2018 17:49

Tgt Ion: 50 Resp: 839

Ion Ratio Lower Upper

50 100

52 25.8 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

800

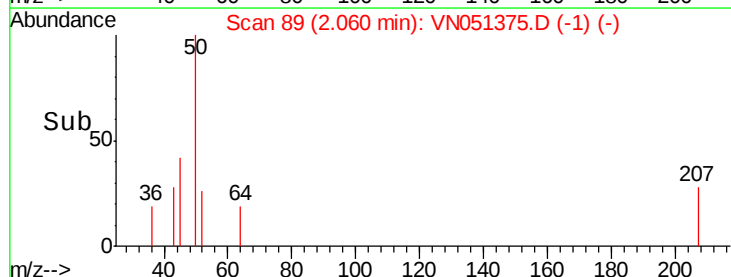
600

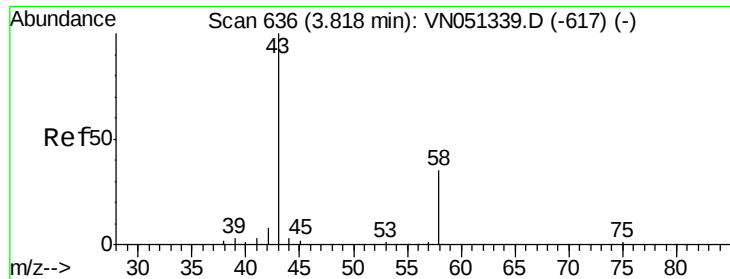
400

200

0

Time-->





#16

Acetone

Concen: 11.676 ug/l

RT: 3.82 min Scan# 637

Delta R.T. 0.00 min

Lab File: VN051375.D

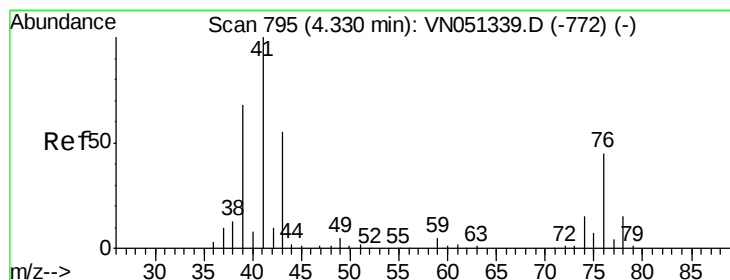
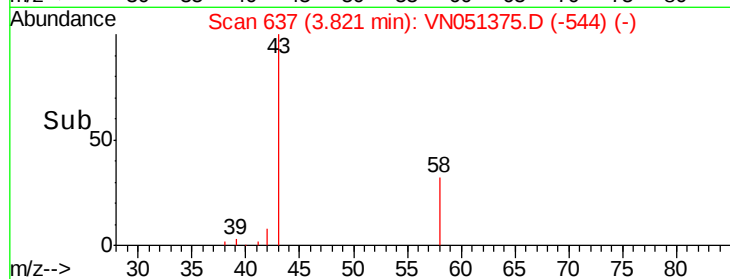
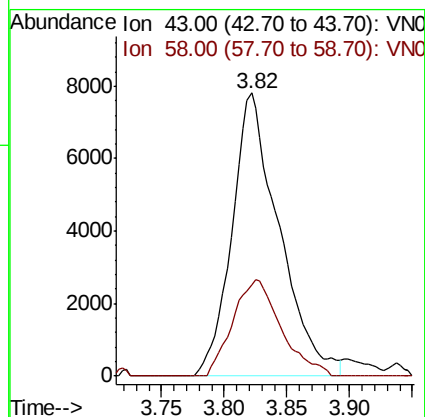
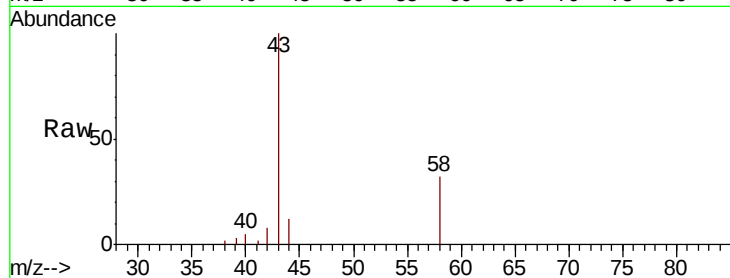
Acq: 21 Sep 2018 17:49

Tot Ion: 43 Resp: 20390

Ion Ratio Lower Upper

43 100

58 32.1 28.3 42.5



#18

Methyl Acetate

Concen: 0.830 ug/l

RT: 4.33 min Scan# 796

Delta R.T. 0.00 min

Lab File: VN051375.D

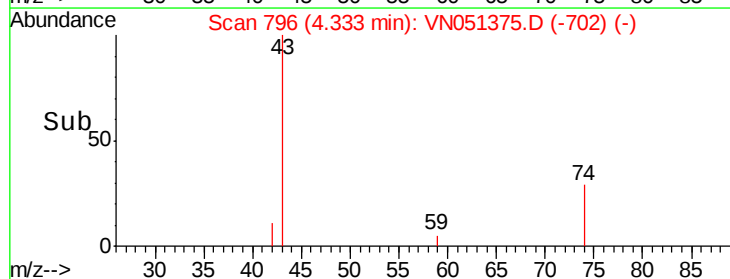
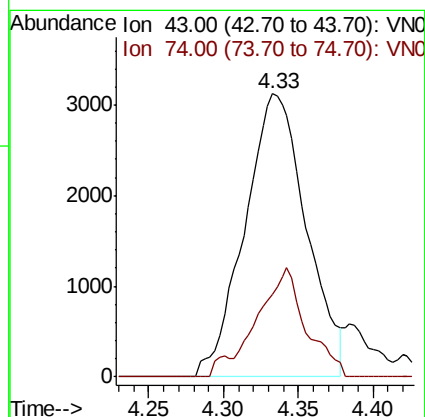
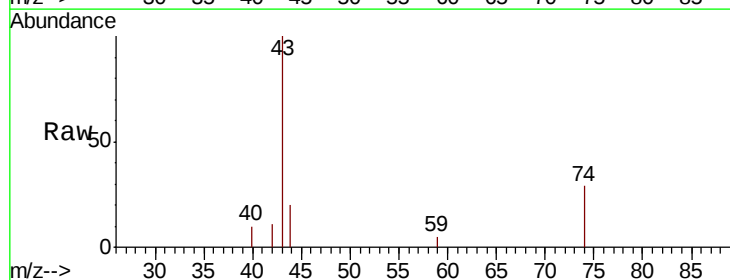
Acq: 21 Sep 2018 17:49

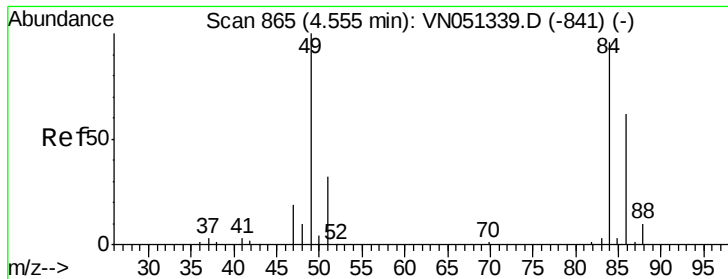
Tgt Ion: 43 Resp: 8925

Ion Ratio Lower Upper

43 100

74 28.9 21.7 32.5





#20

Methylene Chloride

Concen: 2.721 ug/l

RT: 4.55 min Scan# 865

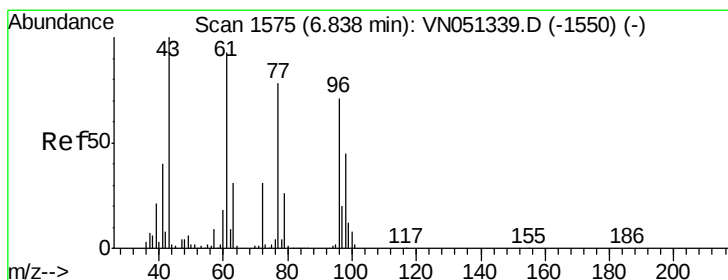
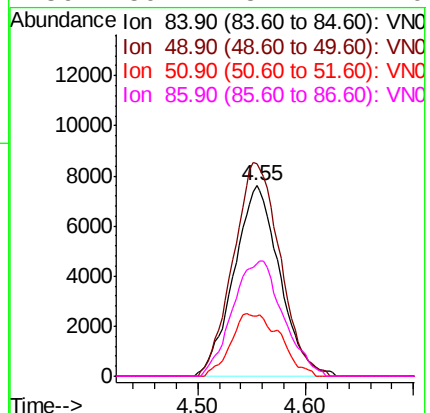
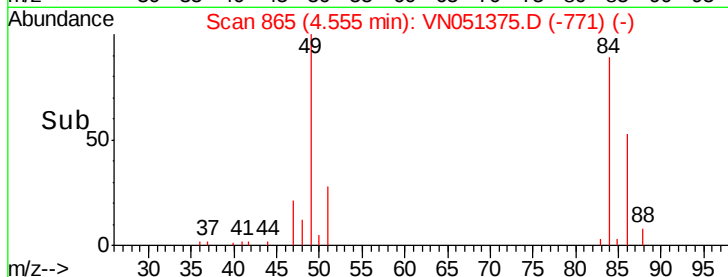
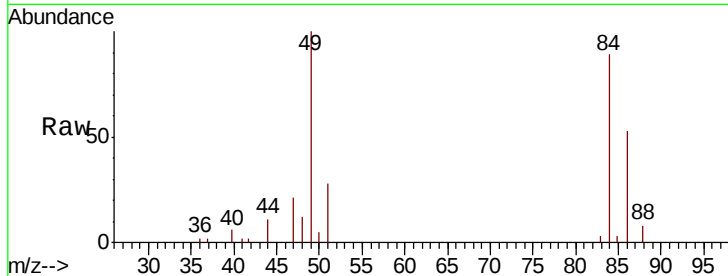
Delta R.T. 0.00 min

Lab File: VN051375.D

Acq: 21 Sep 2018 17:49

Tot Ion: 84 Resp: 22407

Ion	Ratio	Lower	Upper
84	100		
49	111.8	83.2	124.8
51	31.4	26.4	39.6
86	59.2	51.4	77.0



#25

2-Butanone

Concen: 1.269 ug/l

RT: 6.85 min Scan# 1579

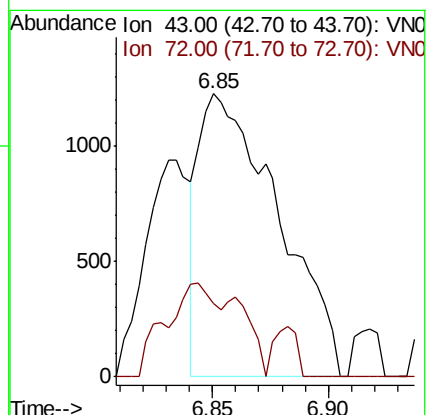
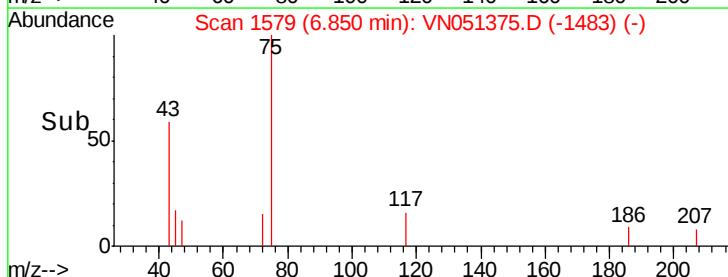
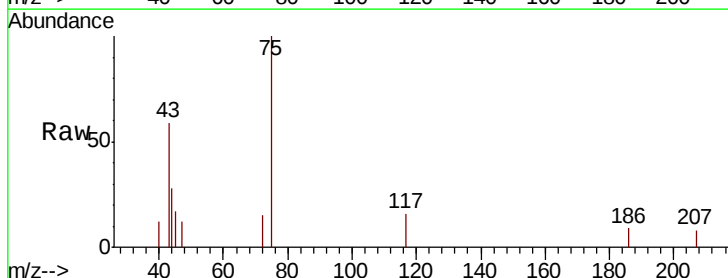
Delta R.T. 0.01 min

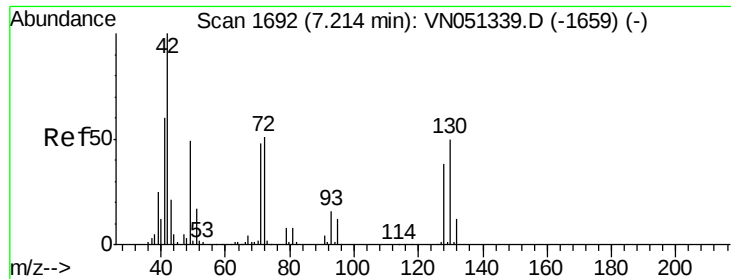
Lab File: VN051375.D

Acq: 21 Sep 2018 17:49

Tgt Ion: 43 Resp: 2904

Ion	Ratio	Lower	Upper
43	100		
72	26.1	24.7	37.1





#29

Tetrahydrofuran

Concen: 0.421 ug/l

RT: 7.22 min Scan# 1694

Delta R.T. 0.00 min

Lab File: VN051375.D

Acq: 21 Sep 2018 17:49

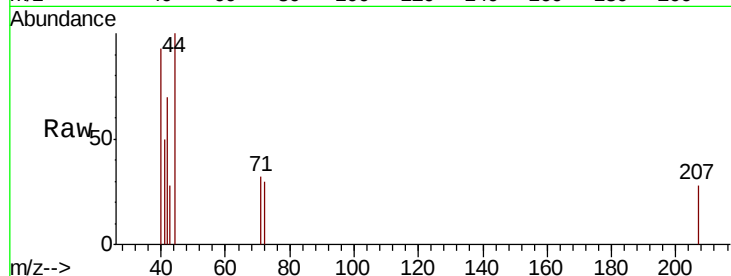
Tot Ion: 42 Resp: 611

Ion Ratio Lower Upper

42 100

72 0.0 39.0 58.4#

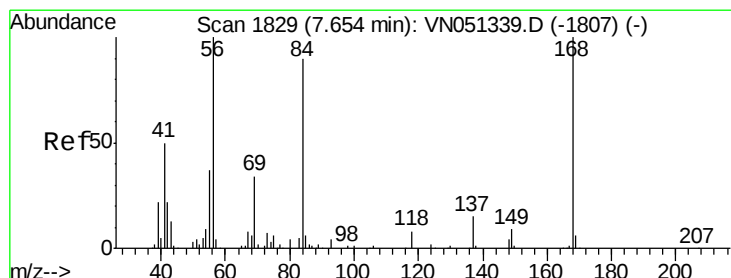
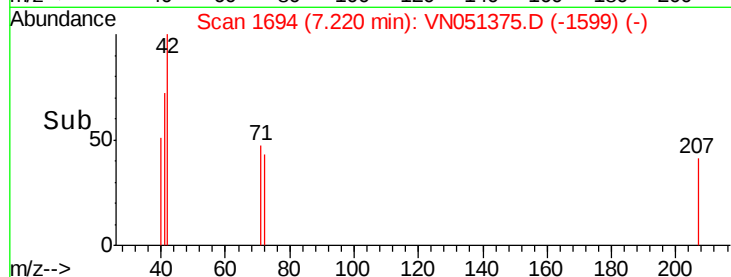
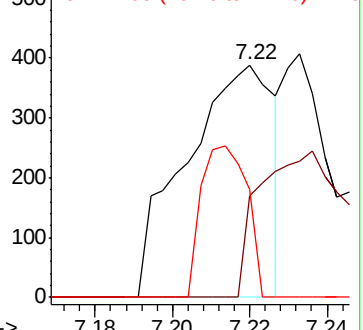
71 34.5 36.5 54.7#



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: 0.433 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.01 min

Lab File: VN051375.D

Acq: 21 Sep 2018 17:49

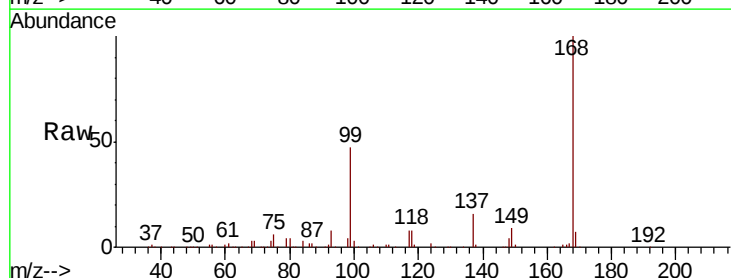
Tgt Ion: 56 Resp: 10434

Ion Ratio Lower Upper

56 100

69 206.8 27.3 40.9#

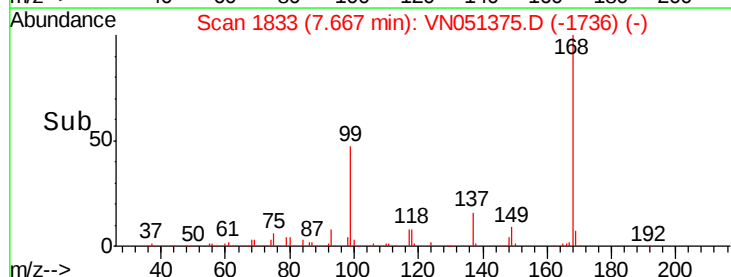
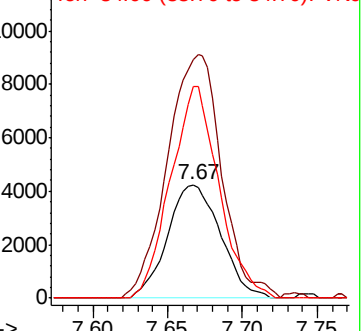
84 187.2 72.2 108.2#

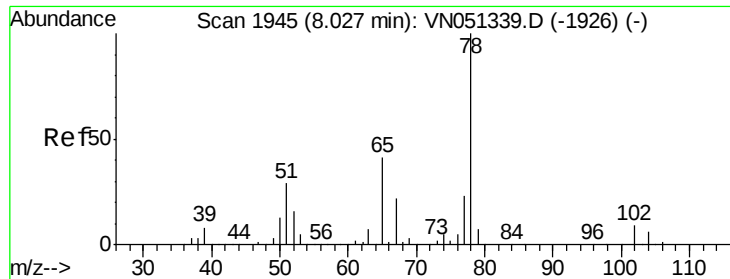


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0





#33

1,2-Dichloroethane-d4

Concen: 51.928 ug/l

RT: 8.03 min Scan# 1946

Delta R.T. 0.00 min

Lab File: VN051375.D

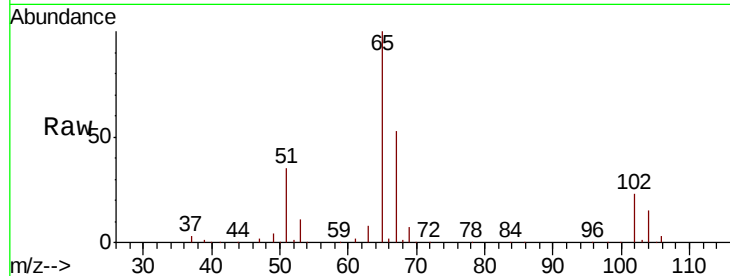
Acq: 21 Sep 2018 17:49

Tot Ion: 65 Resp: 415984

Ion Ratio Lower Upper

65 100

67 53.7 0.0 108.8



Abundance Ion 64.90 (64.60 to 65.60): VN051339.D (-1926) (-)

Ion 66.90 (66.60 to 67.60): VN051339.D (-1926) (-)

8.03

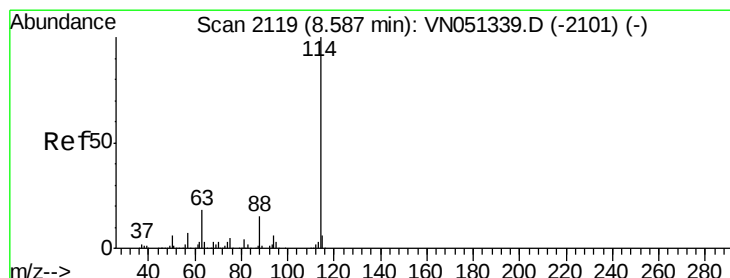
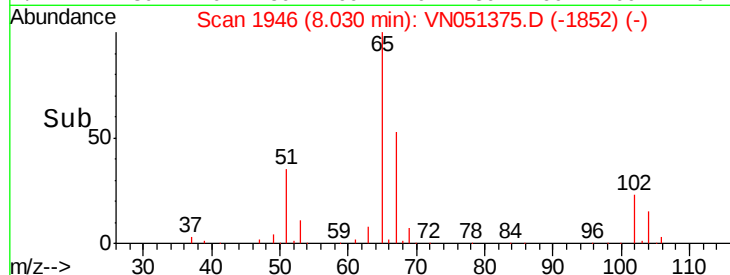
150000

100000

50000

0

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.59 min Scan# 2119

Delta R.T. -0.00 min

Lab File: VN051375.D

Acq: 21 Sep 2018 17:49

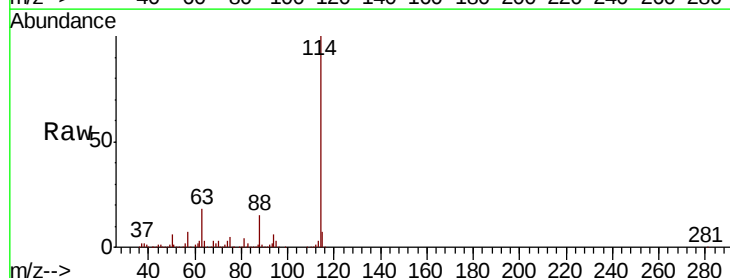
Tgt Ion: 114 Resp: 1099387

Ion Ratio Lower Upper

114 100

63 17.6 0.0 36.6

88 15.4 0.0 29.8



Abundance Ion 113.90 (113.60 to 114.60): VN051339.D (-2101) (-)

Ion 63.00 (62.70 to 63.70): VN051339.D (-2101) (-)

Ion 87.90 (87.60 to 88.60): VN051339.D (-2101) (-)

8.59

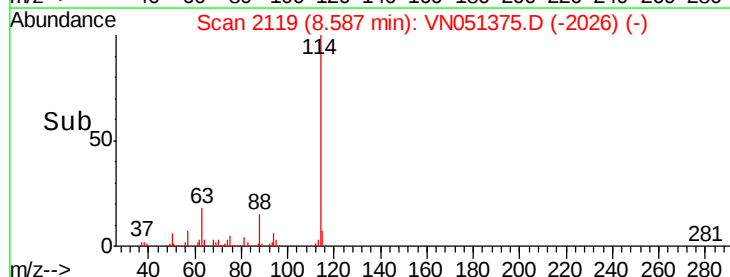
600000

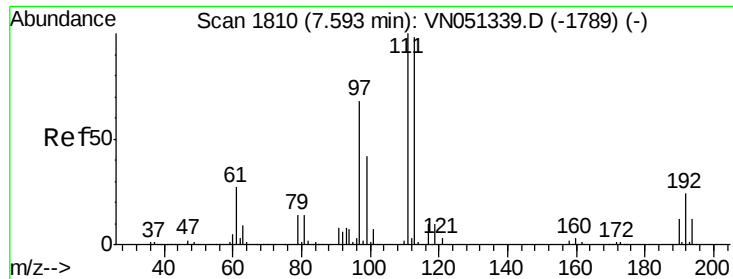
400000

200000

0

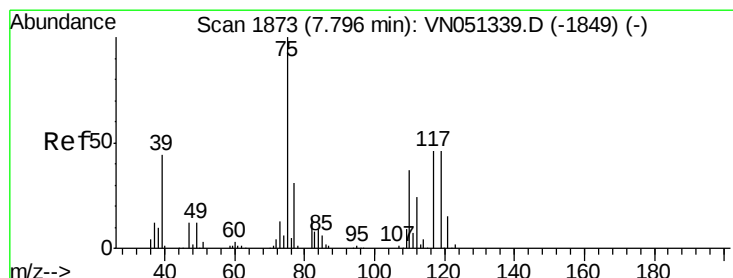
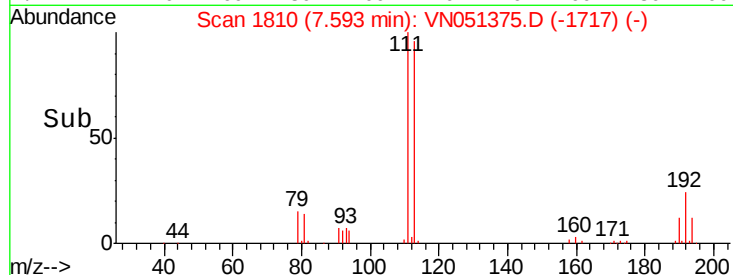
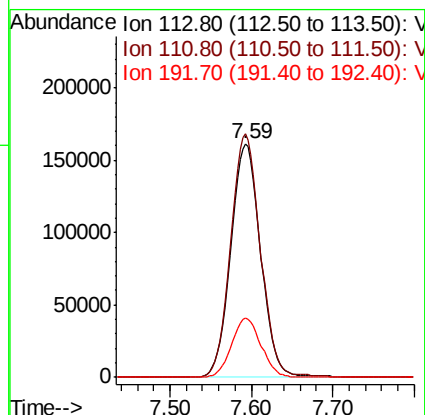
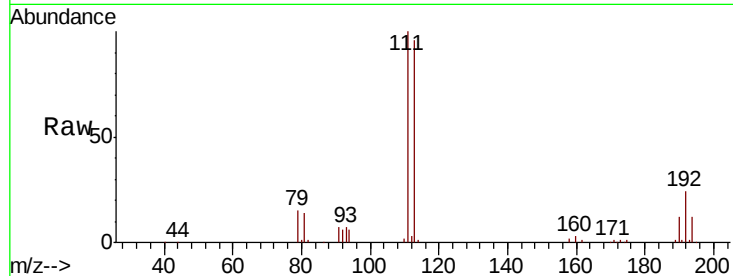
Time-->





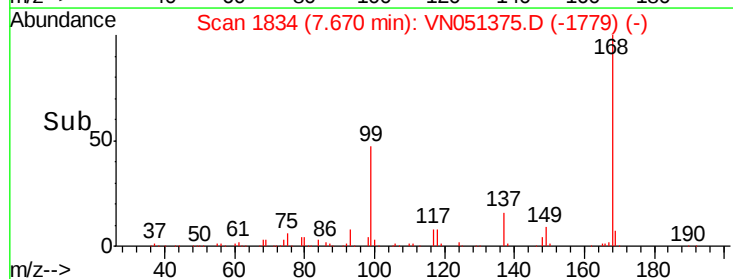
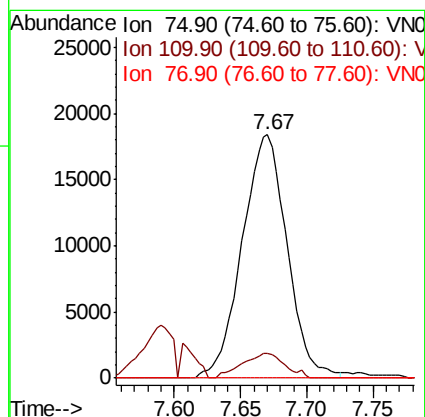
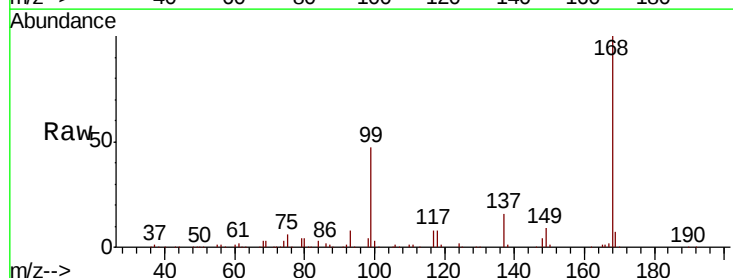
#35
 Dibromofluoromethane
 Concen: 46.479 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. -0.00 min
 Lab File: VN051375.D
 Acq: 21 Sep 2018 17:49

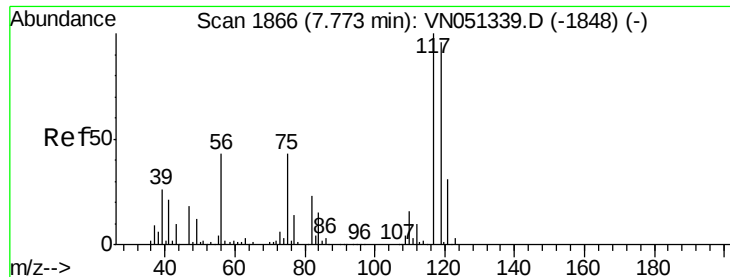
Tot Ion	Ratio	Lower	Upper
113	100		
111	103.7	81.9	122.9
192	25.1	19.8	29.6



#36
 1,1-Dichloropropene
 Concen: 3.857 ug/l
 RT: 7.67 min Scan# 1834
 Delta R.T. -0.12 min
 Lab File: VN051375.D
 Acq: 21 Sep 2018 17:49

Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.7	18.9	56.5#
77	0.0	25.4	38.2#





#38

Carbon Tetrachloride

Concen: 4.984 ug/l

RT: 7.67 min Scan# 1834

Delta R.T. -0.10 min

Lab File: VN051375.D

Acq: 21 Sep 2018 17:49

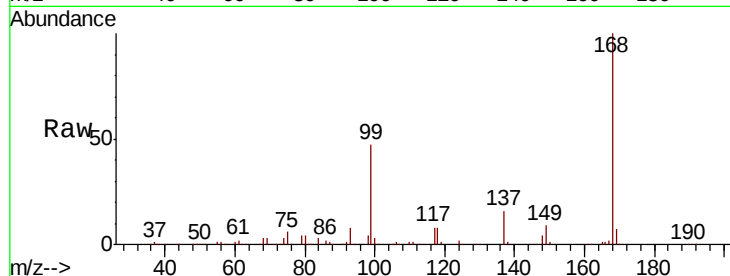
Tot Ion:117 Resp: 60634

Ion Ratio Lower Upper

117 100

119 6.4 77.0 115.4#

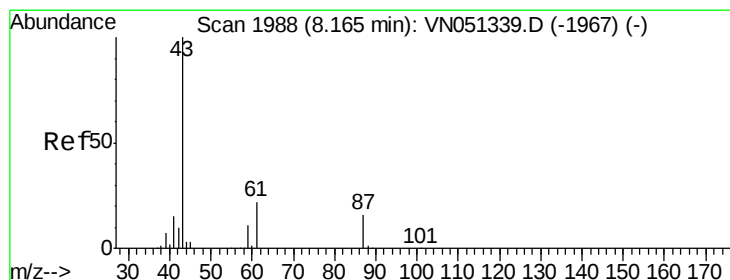
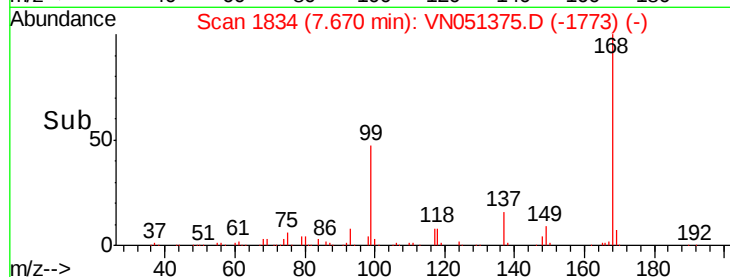
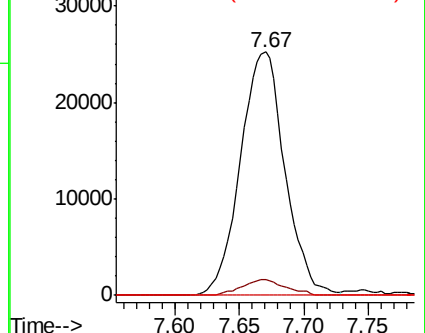
121 0.0 25.0 37.4#



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: 26.689 ug/l

RT: 8.17 min Scan# 1989

Delta R.T. 0.00 min

Lab File: VN051375.D

Acq: 21 Sep 2018 17:49

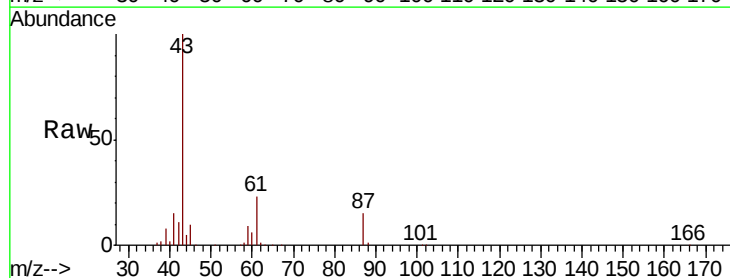
Tgt Ion: 43 Resp: 260218

Ion Ratio Lower Upper

43 100

61 18.8 18.1 27.1

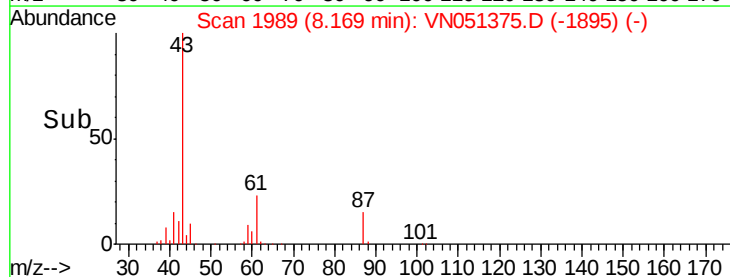
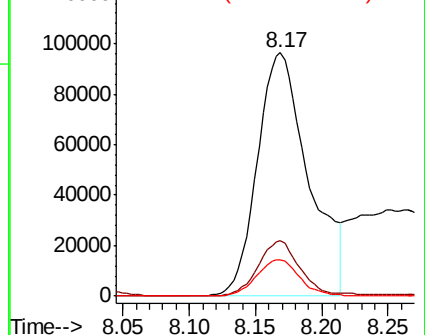
87 12.4 12.8 19.2#

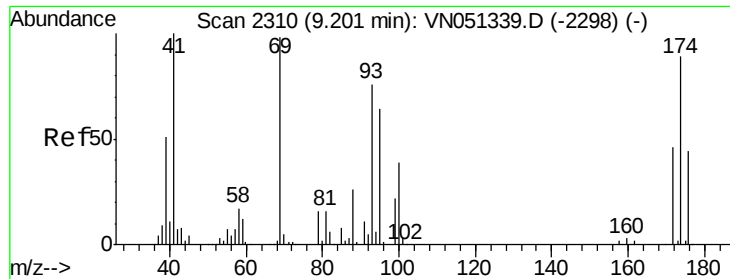


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V





#48

Methvl methacrylate

Concen: 0.485 ug/l

RT: 9.17 min Scan# 2302

Delta R.T. -0.03 min

Lab File: VN051375.D

Acq: 21 Sep 2018 17:49

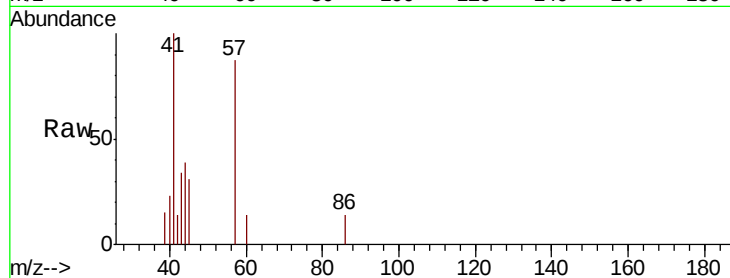
Tot Ion: 41 Resp: 2411

Ion Ratio Lower Upper

41 100

69 0.0 79.4 119.0#

39 32.5 43.0 64.6#

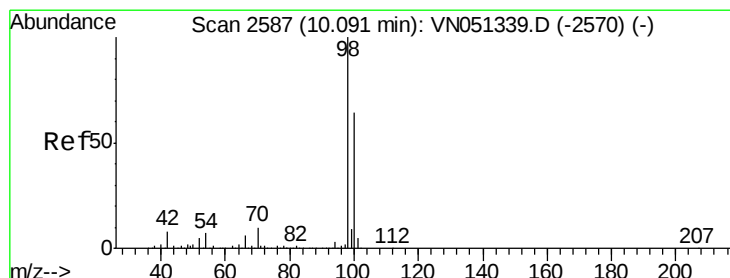
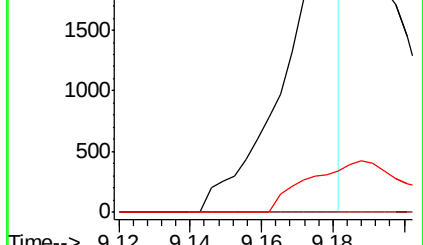
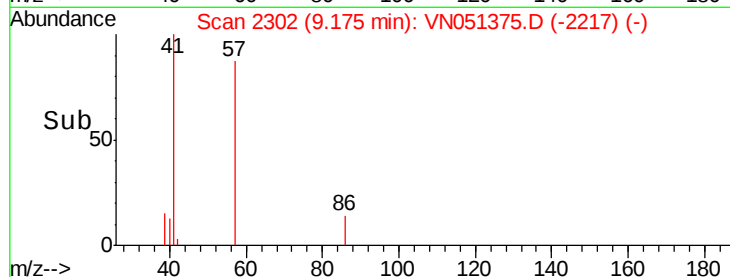


Abundance Ion 41.00 (40.70 to 41.70): VN051339.D (-2298) (-)

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: 43.067 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN051375.D

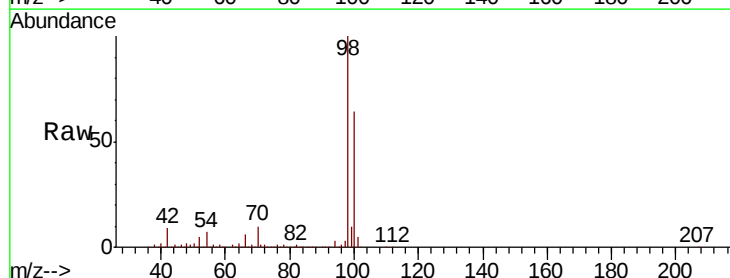
Acq: 21 Sep 2018 17:49

Tgt Ion: 98 Resp: 1470941

Ion Ratio Lower Upper

98 100

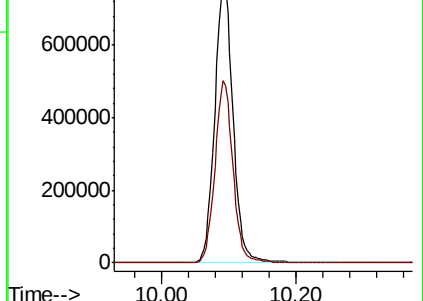
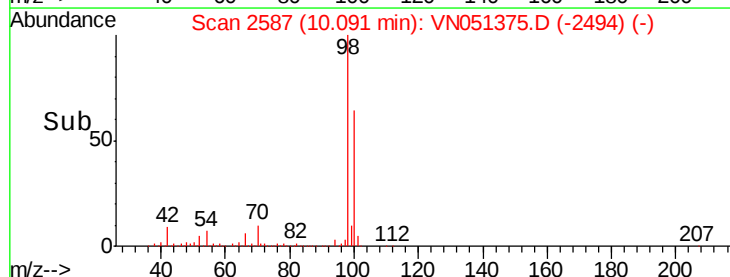
100 63.8 51.3 76.9

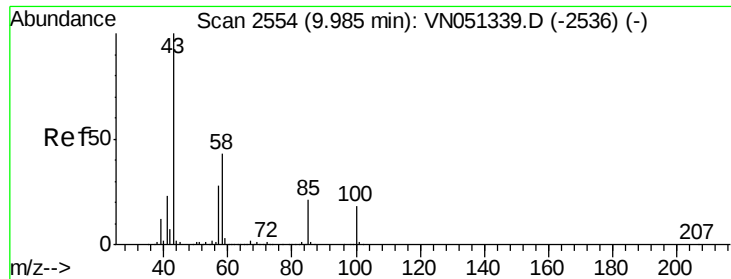


Abundance Ion 98.00 (97.70 to 98.70): VN051339.D (-2570) (-)

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

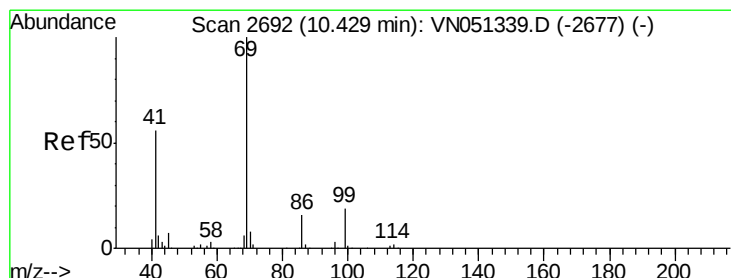
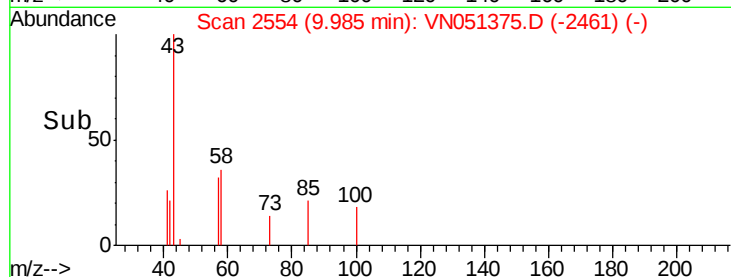
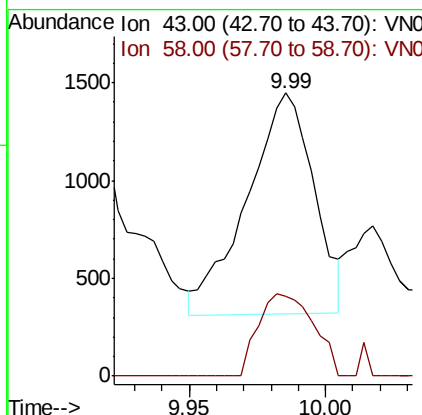
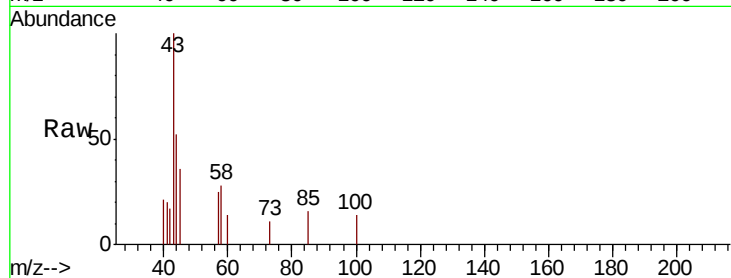
Time-->





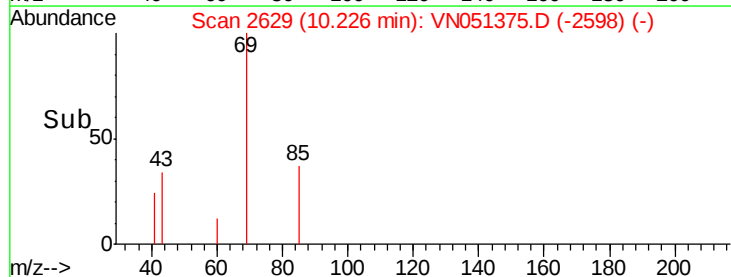
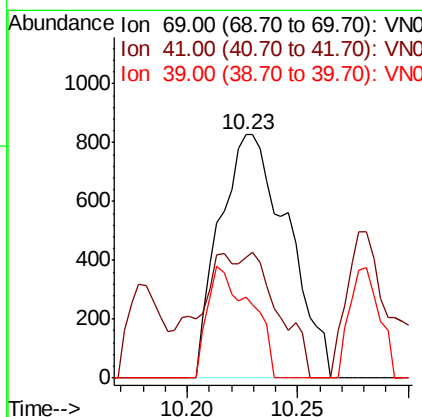
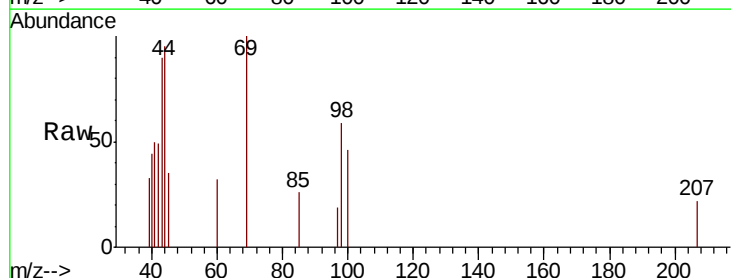
#51
 4-Methyl-2-Pentanone
 Concen: 0.367 ug/l
 RT: 9.99 min Scan# 2554
 Delta R.T. -0.00 min
 Lab File: VN051375.D
 Acq: 21 Sep 2018 17:49

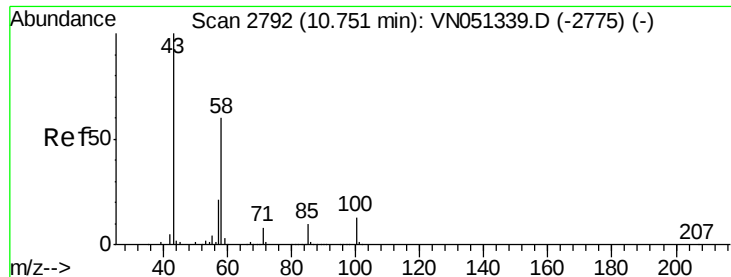
Tot Ion: 43 Resp: 1927
 Ion Ratio Lower Upper
 43 100
 58 30.6 34.2 51.4#



#56
 Ethyl methacrylate
 Concen: 1.758 ug/l
 RT: 10.23 min Scan# 2629
 Delta R.T. -0.20 min
 Lab File: VN051375.D
 Acq: 21 Sep 2018 17:49

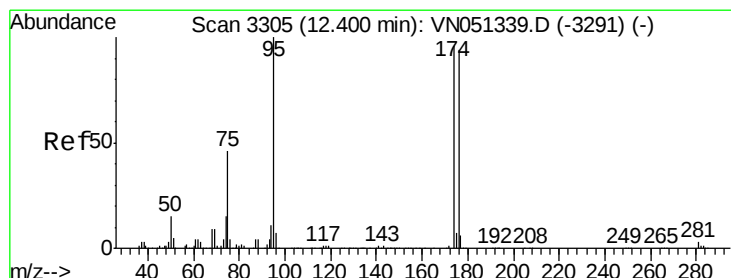
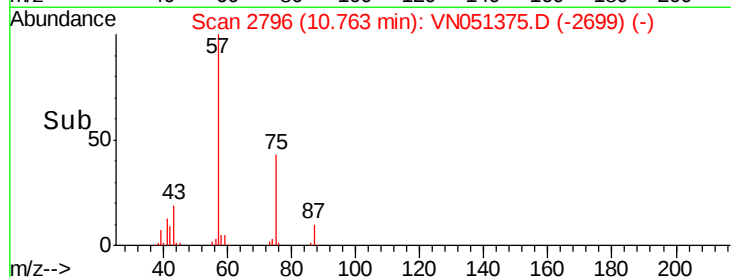
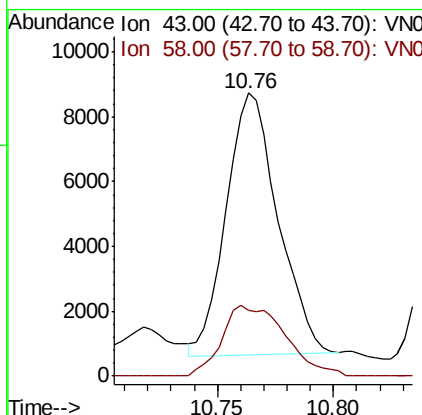
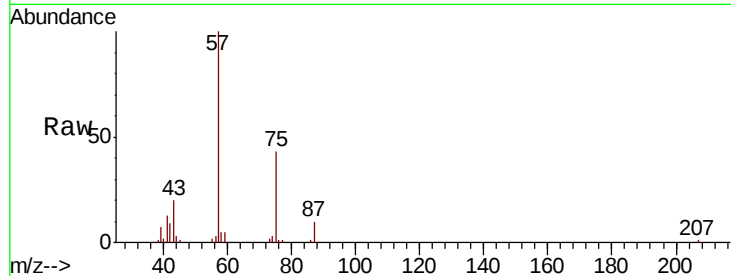
Tgt Ion: 69 Resp: 1770
 Ion Ratio Lower Upper
 69 100
 41 14.0 45.1 67.7#
 39 28.9 23.4 35.2





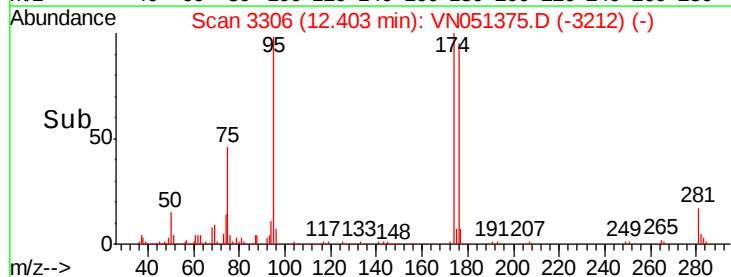
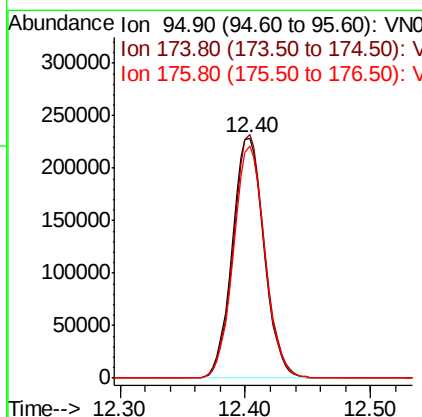
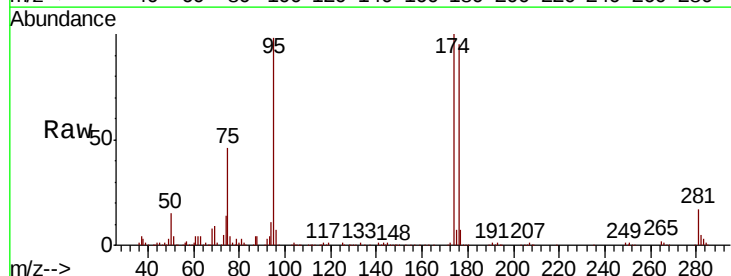
#59
2-Hexanone
Concen: 3.551 ug/l
RT: 10.76 min Scan# 2796
Delta R.T. 0.01 min
Lab File: VN051375.D
Acq: 21 Sep 2018 17:49

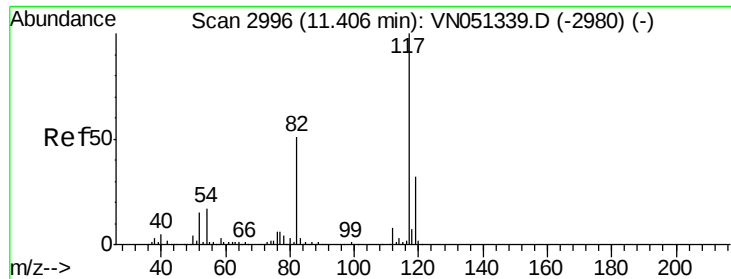
Tot Ion: 43 Resp: 12557
Ion Ratio Lower Upper
43 100
58 32.9 29.9 89.8



#62
4-Bromofluorobenzene
Concen: 36.210 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN051375.D
Acq: 21 Sep 2018 17:49

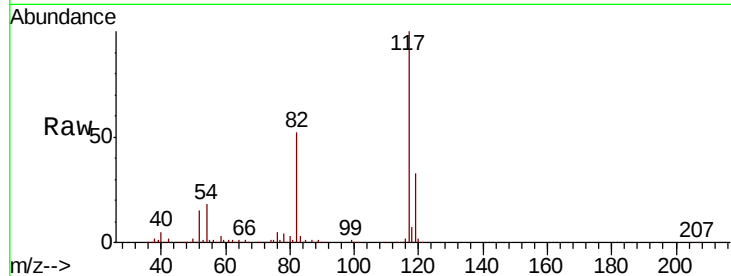
Tgt Ion: 95 Resp: 402343
Ion Ratio Lower Upper
95 100
174 99.8 0.0 194.6
176 95.3 0.0 189.6



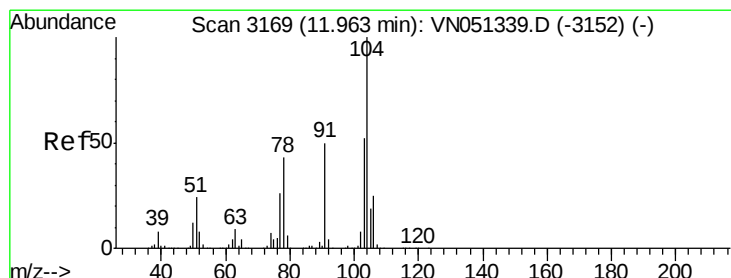
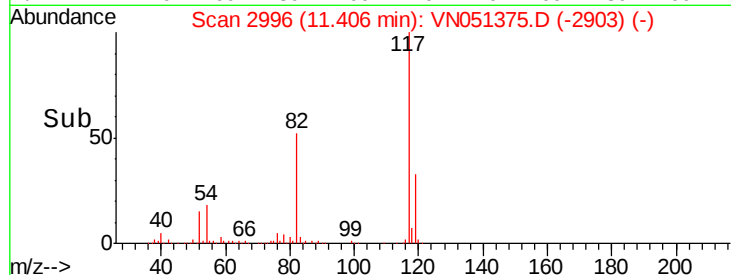
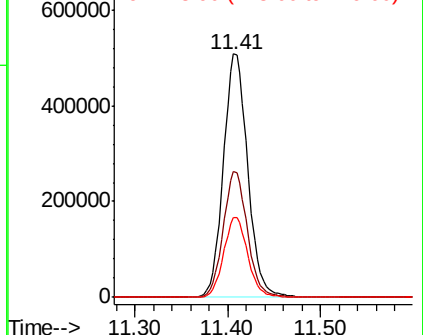


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN051375.D
Acq: 21 Sep 2018 17:49

Tot Ion:117 Resp: 923180
Ion Ratio Lower Upper
117 100
82 51.7 40.7 61.1
119 32.7 25.3 37.9

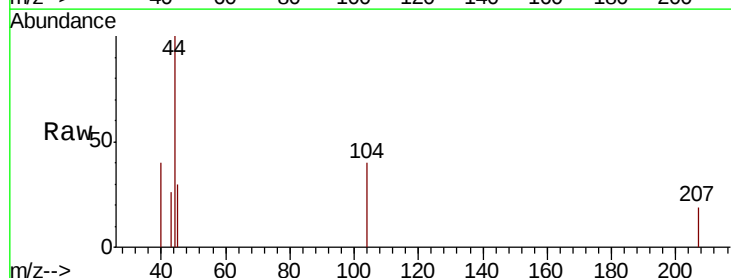


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VN0
Ion 118.90 (118.60 to 119.60): V

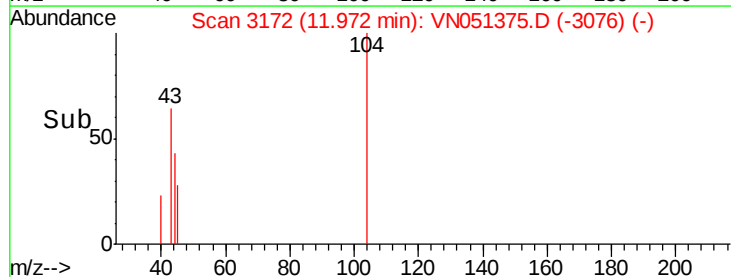
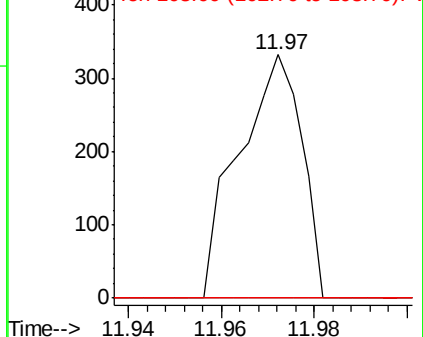


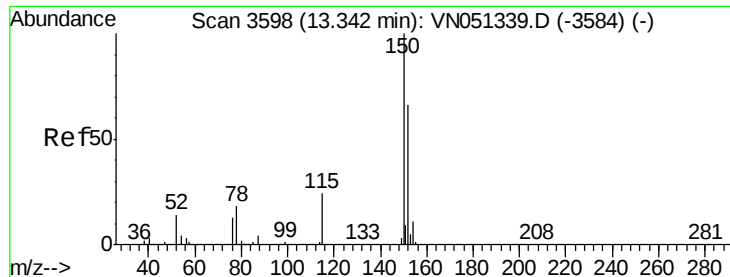
#70
Styrene
Concen: 0.907 ug/l
RT: 11.97 min Scan# 3172
Delta R.T. 0.01 min
Lab File: VN051375.D
Acq: 21 Sep 2018 17:49

Tgt Ion:104 Resp: 312
Ion Ratio Lower Upper
104 100
78 0.0 37.8 56.6#
103 0.0 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

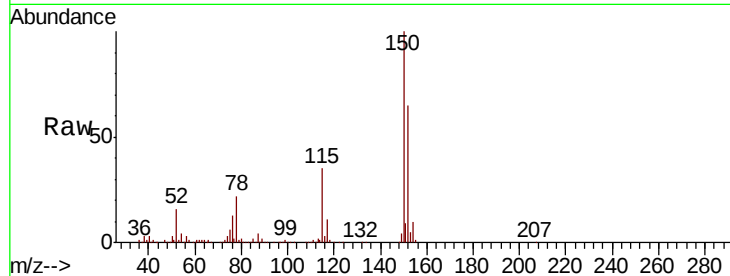




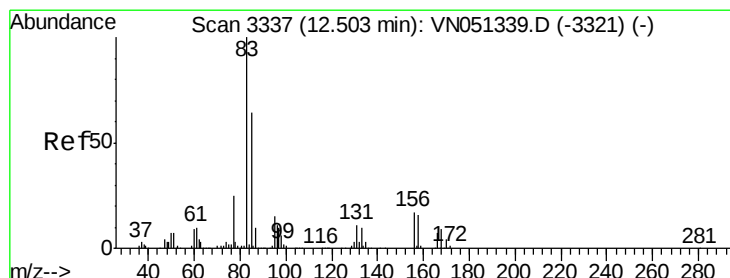
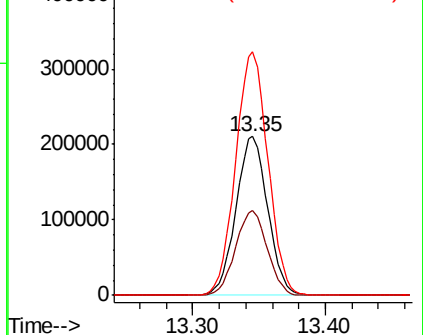
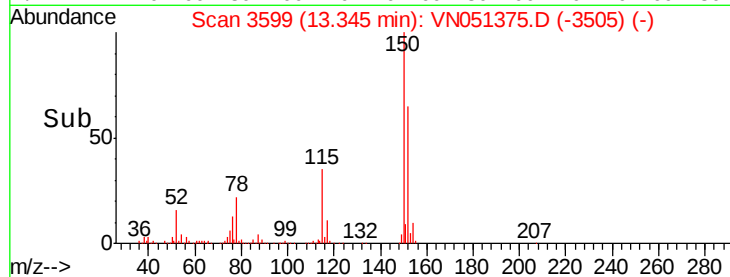
#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.35 min Scan# 3599
Delta R.T. 0.00 min
Lab File: VN051375.D
Acq: 21 Sep 2018 17:49

Tot Ion	Ratio	Lower	Upper
152	100		
115	53.4	26.9	80.7
150	156.1	0.0	345.0



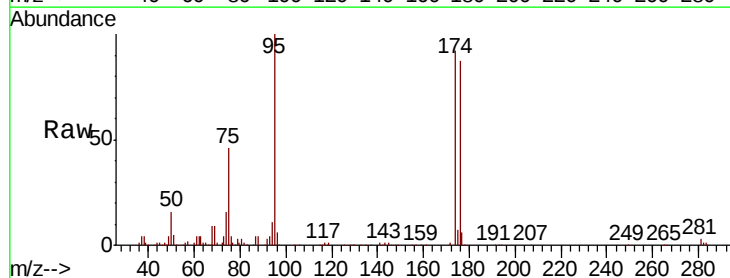
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



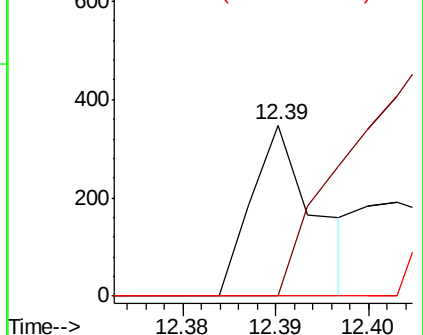
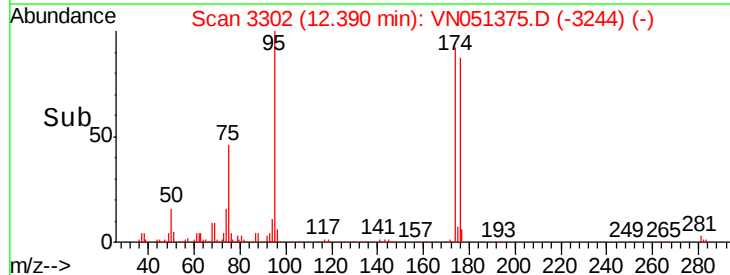
#75

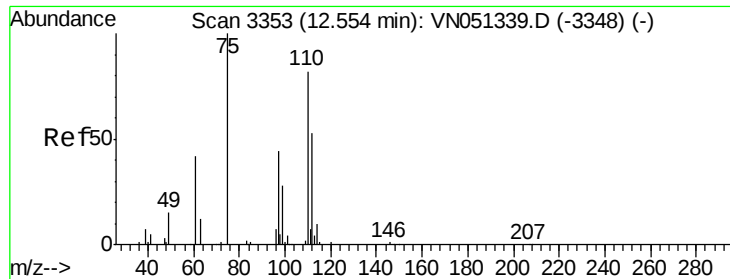
1,1,2,2-Tetrachloroethane
Concen: Below Cal
RT: 12.39 min Scan# 3302
Delta R.T. -0.11 min
Lab File: VN051375.D
Acq: 21 Sep 2018 17:49

Tgt Ion	Ratio	Lower	Upper
83	100		
131	406.1	5.5	16.7#
85	38.8	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

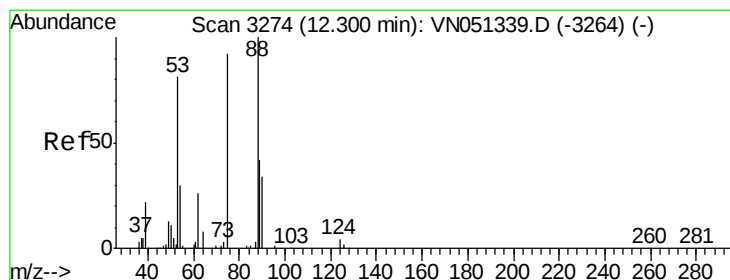
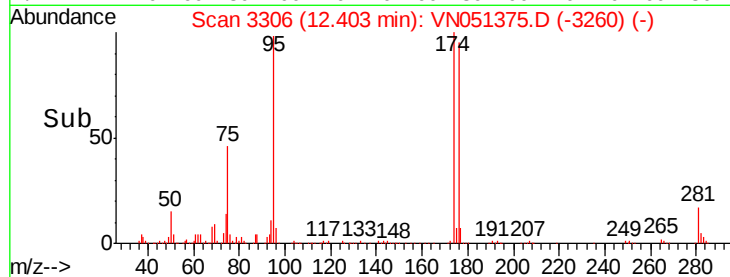
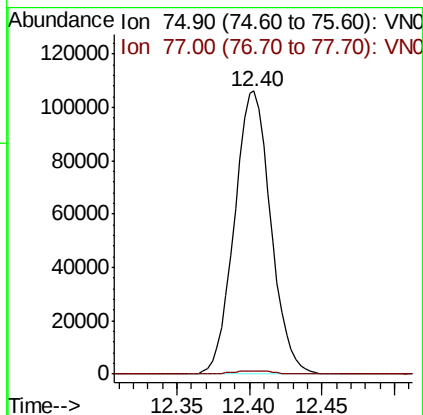
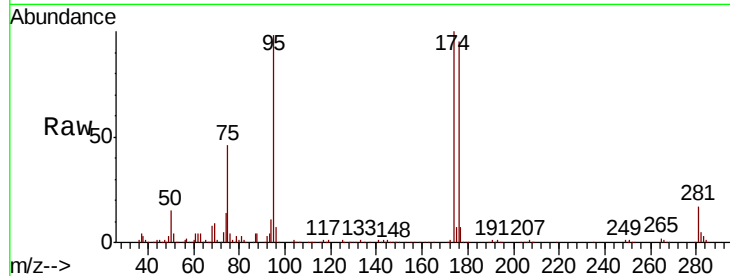




#76

1,2,3-Trichloropropane
 Concen: 39.463 ug/l
 RT: 12.40 min Scan# 3306
 Delta R.T. -0.15 min
 Lab File: VN051375.D
 Acq: 21 Sep 2018 17:49

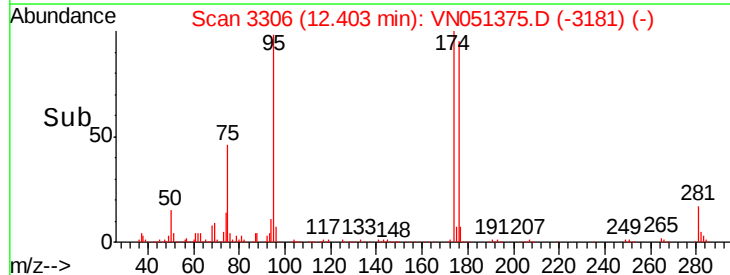
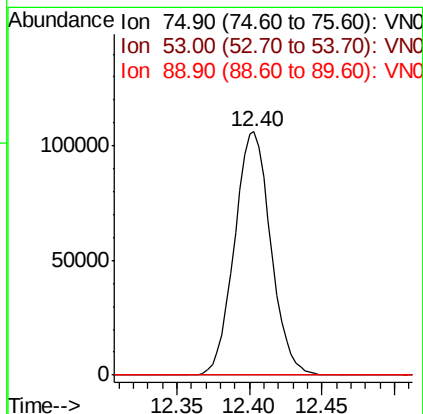
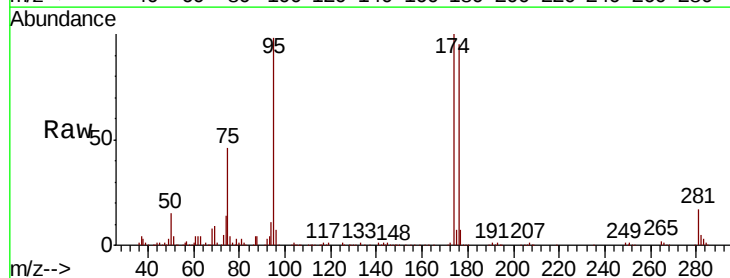
Tot Ion: 75 Resp: 184771
 Ion Ratio Lower Upper
 75 100
 77 1.4 0.0 0.0#

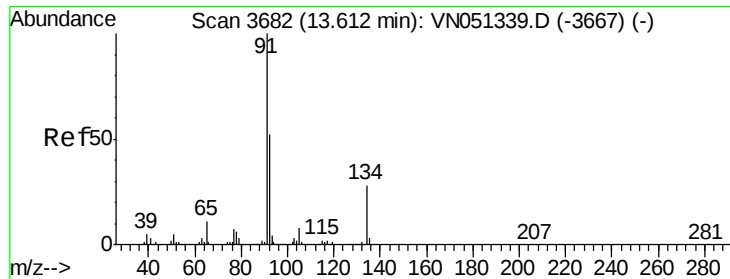


#81

trans-1,4-Dichloro-2-butene
 Concen: 118.464 ug/l
 RT: 12.40 min Scan# 3306
 Delta R.T. 0.10 min
 Lab File: VN051375.D
 Acq: 21 Sep 2018 17:49

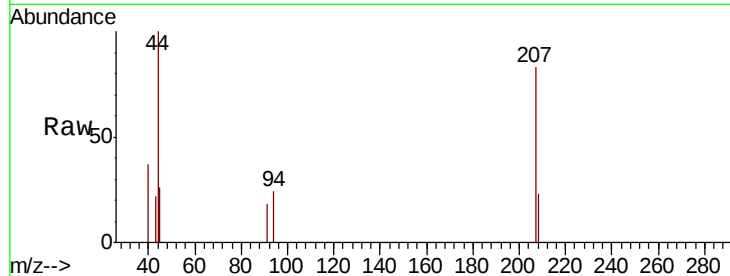
Tgt Ion: 75 Resp: 184771
 Ion Ratio Lower Upper
 75 100
 53 0.1 69.9 104.9#
 89 0.2 37.9 56.9#



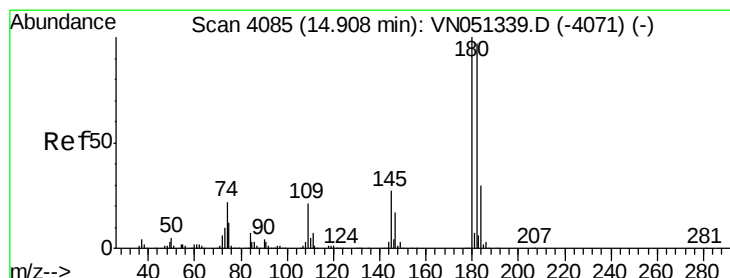
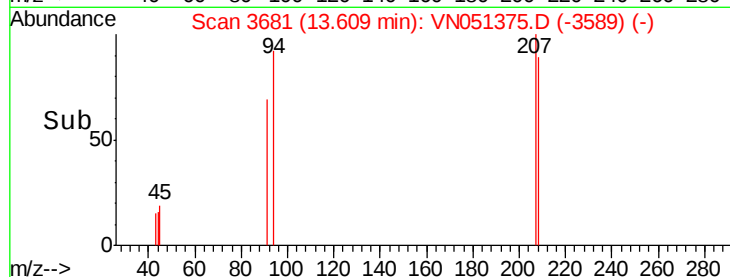
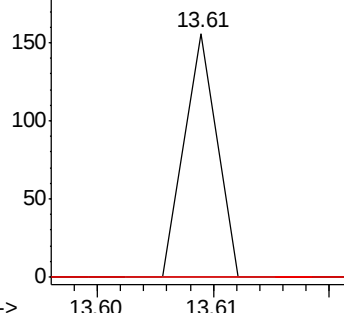


#89
n-Butylbenzene
Concen: 1.430 ug/l
RT: 13.61 min Scan# 3681
Delta R.T. -0.00 min
Lab File: VN051375.D
Acq: 21 Sep 2018 17:49

Tot Ion: 91 Resp: 30
Ion Ratio Lower Upper
91 100
92 0.0 26.0 78.0#
134 0.0 14.1 42.4#

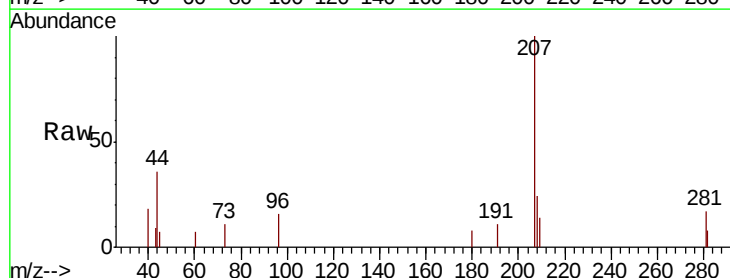


Abundance Ion 91.00 (90.70 to 91.70): VN051339.D (-3667) (-)
Ion 92.00 (91.70 to 92.70): VN051339.D (-3667) (-)
Ion 134.00 (133.70 to 134.70): VN051339.D (-3667) (-)

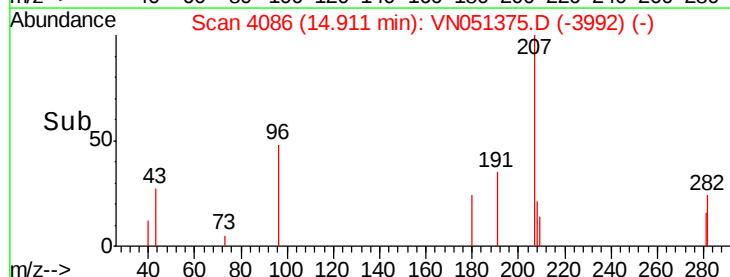
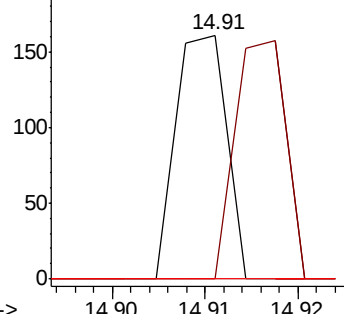


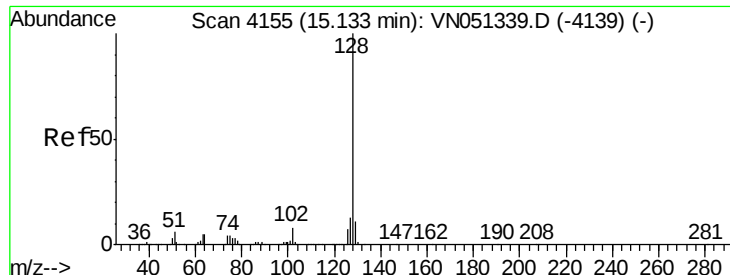
#93
1,2,4-Trichlorobenzene
Concen: 4.107 ug/l
RT: 14.91 min Scan# 4086
Delta R.T. 0.00 min
Lab File: VN051375.D
Acq: 21 Sep 2018 17:49

Tgt Ion: 180 Resp: 61
Ion Ratio Lower Upper
180 100
182 98.4 48.4 145.2
145 0.0 13.7 41.1#



Abundance Ion 179.80 (179.50 to 180.50): VN051339.D (-4071) (-)
Ion 181.80 (181.50 to 182.50): VN051339.D (-4071) (-)
Ion 144.80 (144.50 to 145.50): VN051339.D (-4071) (-)





#95
Naphthalene
Concen: 5.344 ug/l
RT: 15.13 min Scan# 4155
Delta R.T. 0.00 min
Lab File: VN051375.D
Acq: 21 Sep 2018 17:49

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

