

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092218\
 Data File : VN051374.D
 Acq On : 21 Sep 2018 17:24
 Operator : MD\SY
 Sample : PB113086ZHE#05
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 21 23:03:11 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	817203	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1206349	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	984393	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	352588	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	449150	50.71	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.42%	
35) Dibromofluoromethane	7.59	113	453991	46.57	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.14%	
50) Toluene-d8	10.09	98	1601841	42.74	ug/l	0.00
Spiked Amount	50.000		Recovery	=	85.48%	
62) 4-Bromofluorobenzene	12.40	95	423482	34.73	ug/l	0.00
Spiked Amount	50.000		Recovery	=	69.46%	

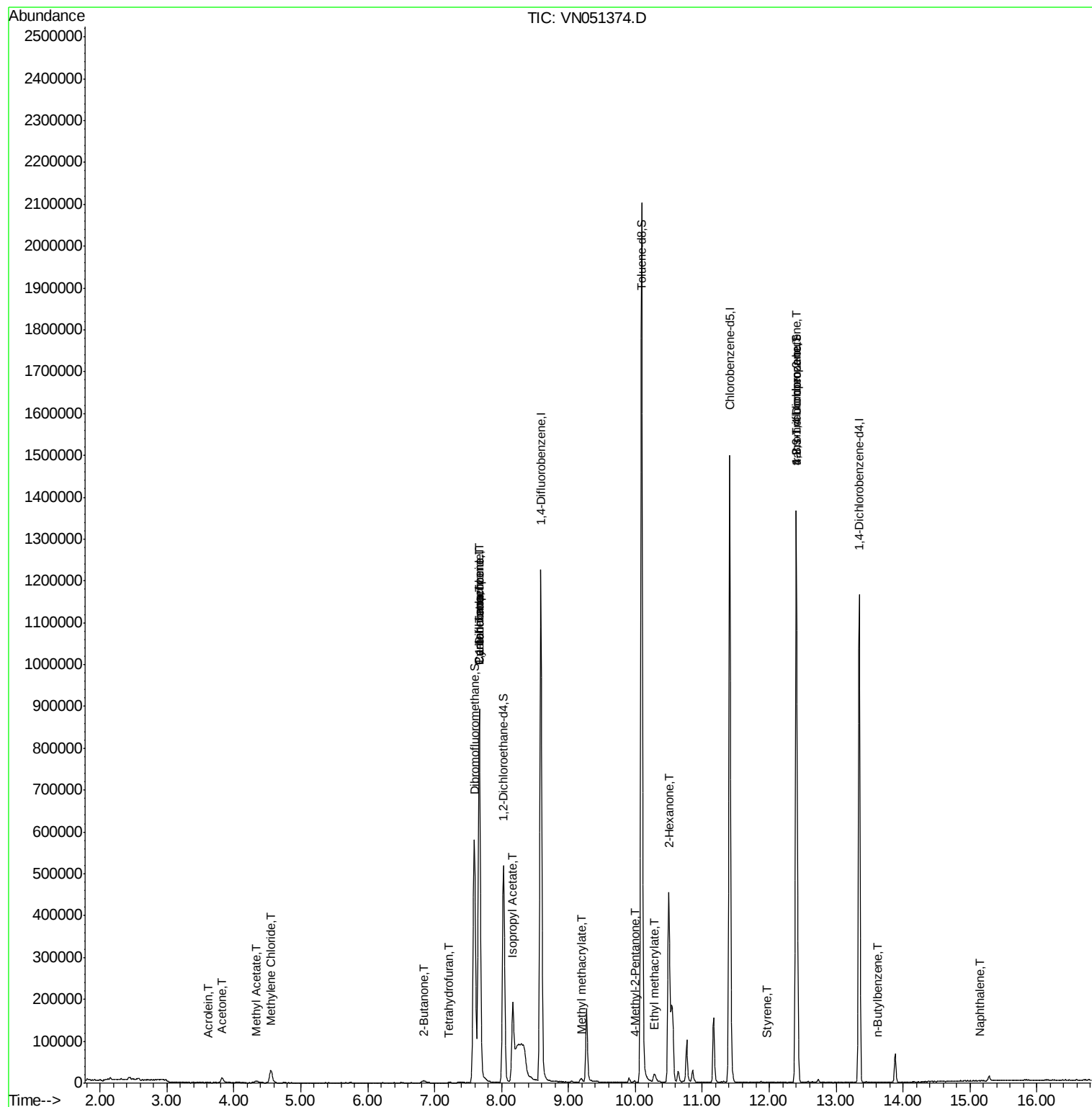
Target Compounds

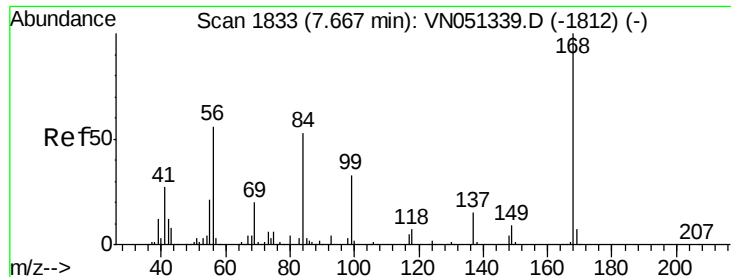
					Qvalue
3) Chloromethane	2.06	50	944	Below Cal	98
13) Acrolein	3.62	56	30	11.892 ug/l #	14
16) Acetone	3.82	43	19801	9.932 ug/l	99
18) Methyl Acetate	4.34	43	9236	0.706 ug/l #	67
20) Methylene Chloride	4.55	84	22981	2.524 ug/l	95
25) 2-Butanone	6.84	43	3885	1.535 ug/l #	70
29) Tetrahydrofuran	7.21	42	593	0.370 ug/l #	53
31) Cyclohexane	7.66	56	11274	0.412 ug/l #	1
36) 1,1-Dichloropropene	7.67	75	47868	3.879 ug/l #	48
38) Carbon Tetrachloride	7.67	117	67016	5.020 ug/l #	16
43) Isopropyl Acetate	8.17	43	247311	23.116 ug/l	92
48) Methyl methacrylate	9.18	41	5481	1.005 ug/l #	15
51) 4-Methyl-2-Pentanone	9.99	43	1994	0.346 ug/l #	84
56) Ethyl methacrylate	10.28	69	69	1.583 ug/l #	31
59) 2-Hexanone	10.49	43	846	0.218 ug/l	71
70) Styrene	11.97	104	613	0.918 ug/l #	46
75) 1,1,2,2-Tetrachloroethane	12.40	83	237	Below Cal #	1
76) 1,2,3-Trichloropropane	12.40	75	197670	41.986 ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	197670	125.693 ug/l #	14
89) n-Butylbenzene	13.62	91	164	1.437 ug/l #	33
95) Naphthalene	15.14	128	362	5.358 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: VN051374.D

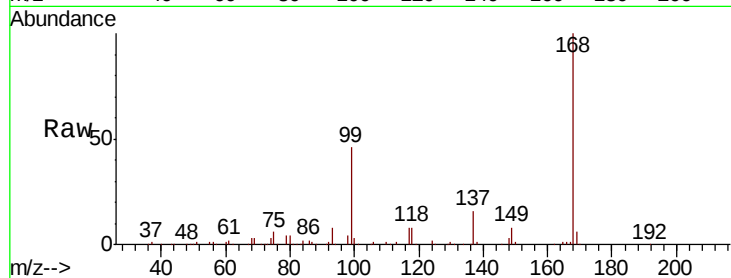
Acq: 21 Sep 2018 17:24

Tot Ion:168 Resp: 817203

Ion Ratio Lower Upper

168 100

99 46.1 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

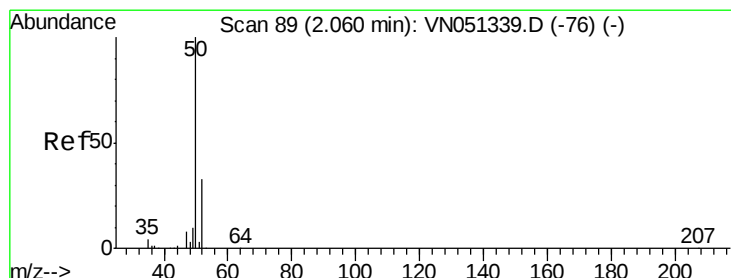
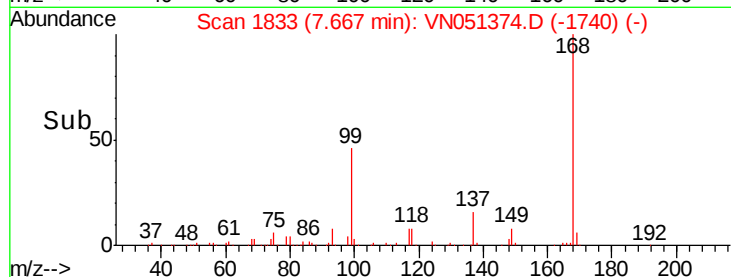
0

Time-->

7.60

7.70

7.80



#3

Chloromethane

Concen: Below Cal

RT: 2.06 min Scan# 88

Delta R.T. -0.00 min

Lab File: VN051374.D

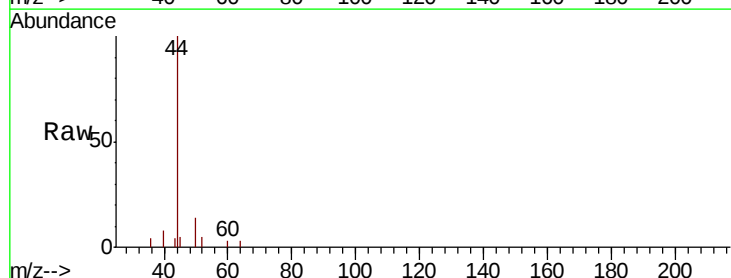
Acq: 21 Sep 2018 17:24

Tgt Ion: 50 Resp: 944

Ion Ratio Lower Upper

50 100

52 34.5 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

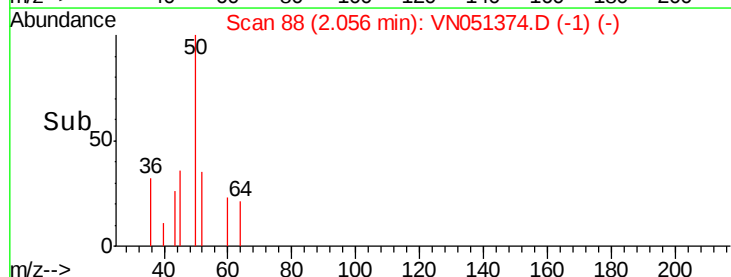
Time-->

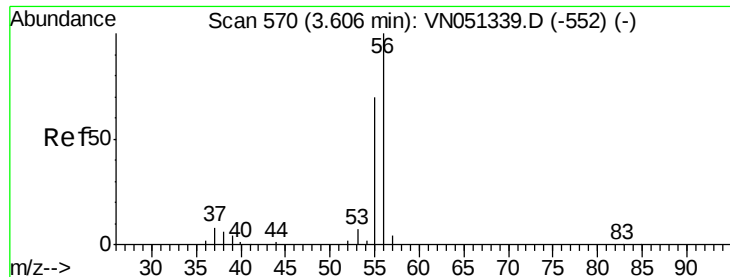
2.02

2.04

2.06

2.08





#13

Acrolein

Concen: 11.892 ug/l

RT: 3.62 min Scan# 575

Delta R.T. 0.02 min

Lab File: VN051374.D

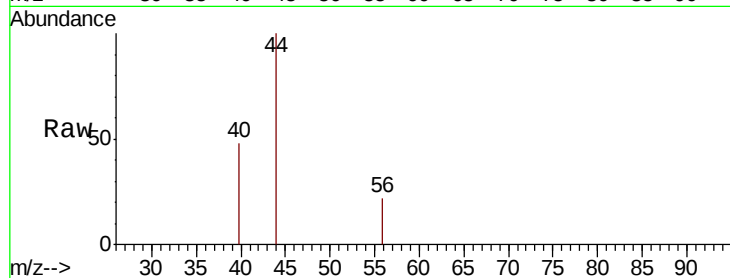
Acq: 21 Sep 2018 17:24

Tot Ion: 56 Resp: 30

Ion Ratio Lower Upper

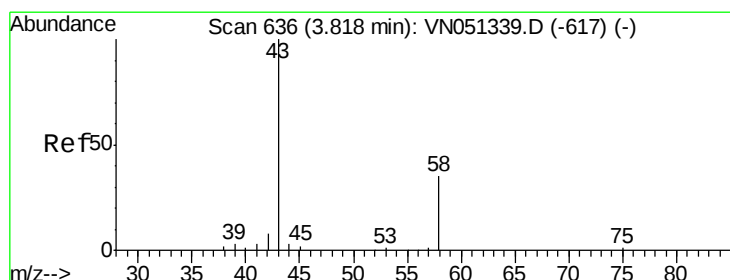
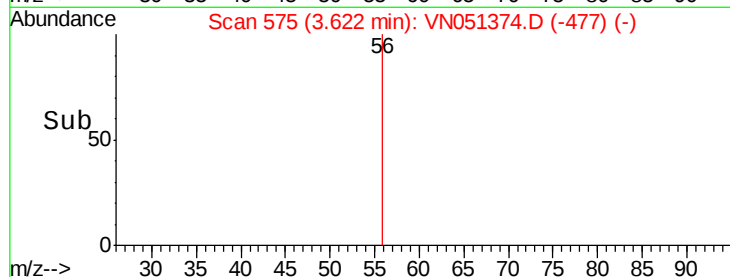
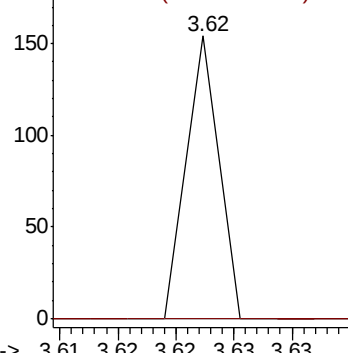
56 100

55 0.0 56.5 84.7#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#16

Acetone

Concen: 9.932 ug/l

RT: 3.82 min Scan# 637

Delta R.T. 0.00 min

Lab File: VN051374.D

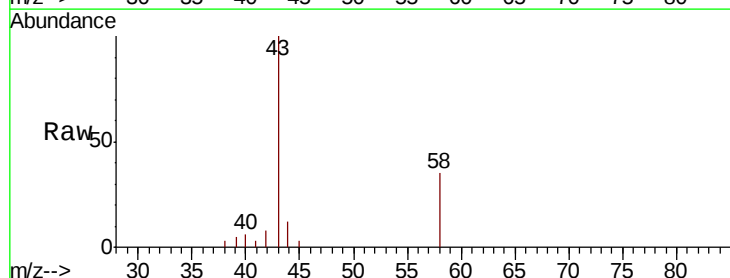
Acq: 21 Sep 2018 17:24

Tgt Ion: 43 Resp: 19801

Ion Ratio Lower Upper

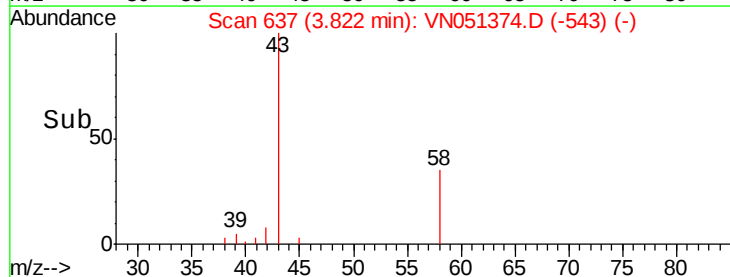
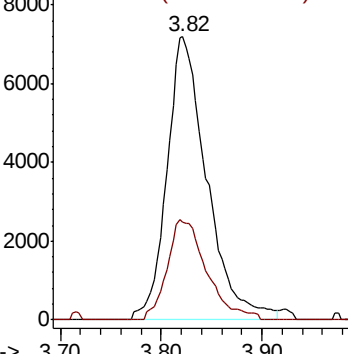
43 100

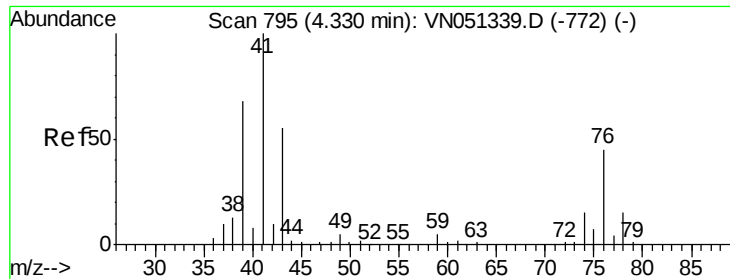
58 34.8 28.3 42.5



Abundance Ion 43.00 (42.70 to 43.70): VN0

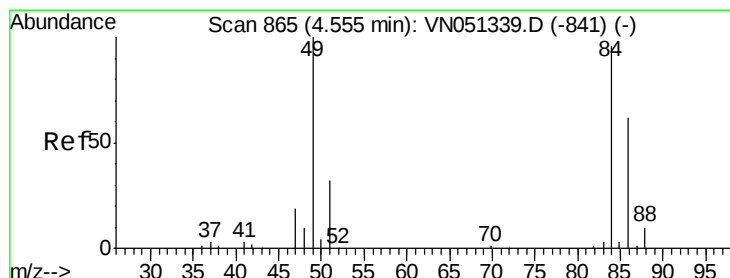
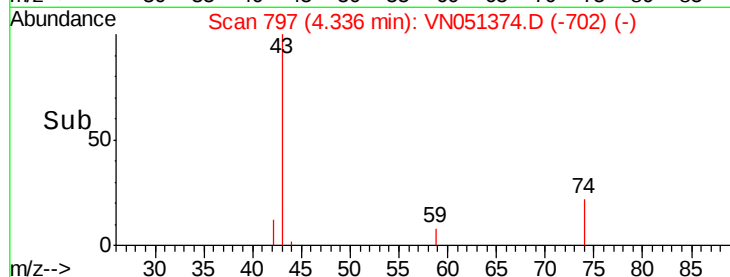
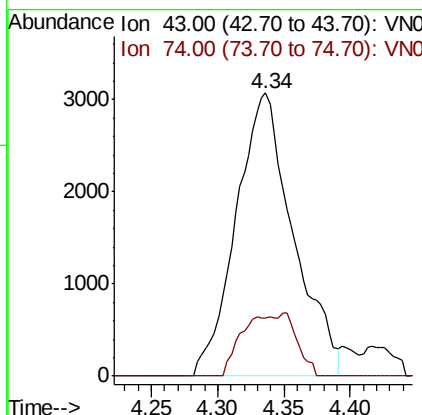
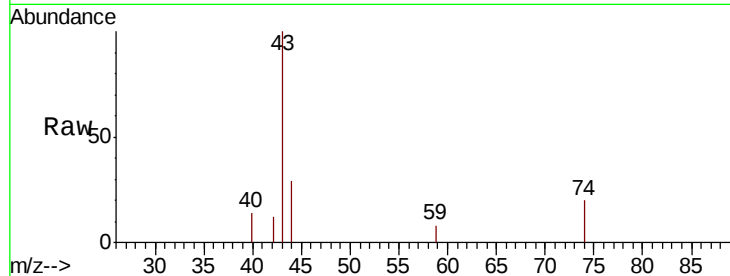
Ion 58.00 (57.70 to 58.70): VN0





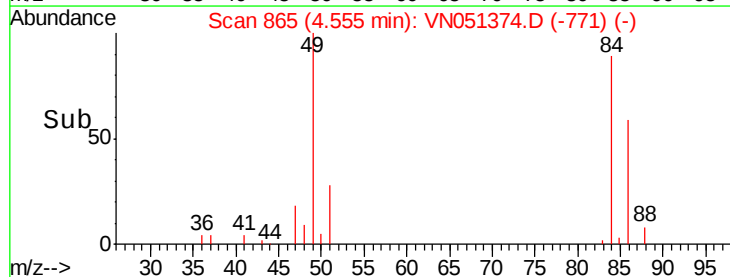
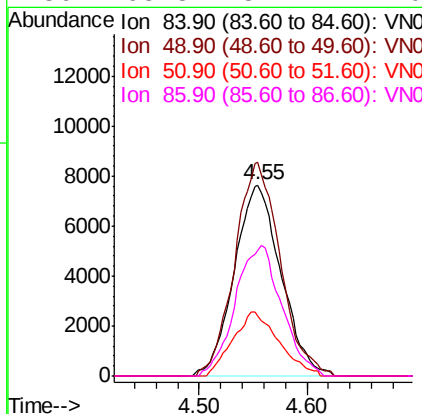
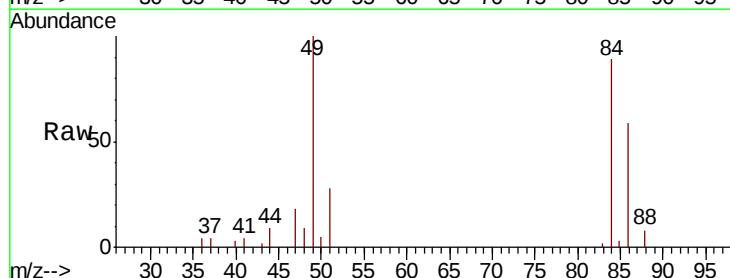
#18
Methyl Acetate
Concen: 0.706 ug/l
RT: 4.34 min Scan# 797
Delta R.T. 0.01 min
Lab File: VN051374.D
Acq: 21 Sep 2018 17:24

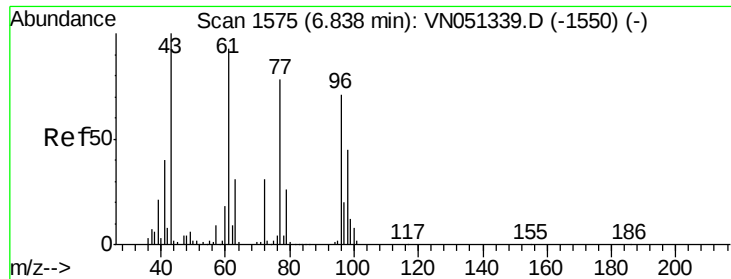
Tot Ion: 43 Resp: 9236
Ion Ratio Lower Upper
43 100
74 10.0 21.7 32.5#



#20
Methylene Chloride
Concen: 2.524 ug/l
RT: 4.55 min Scan# 865
Delta R.T. 0.00 min
Lab File: VN051374.D
Acq: 21 Sep 2018 17:24

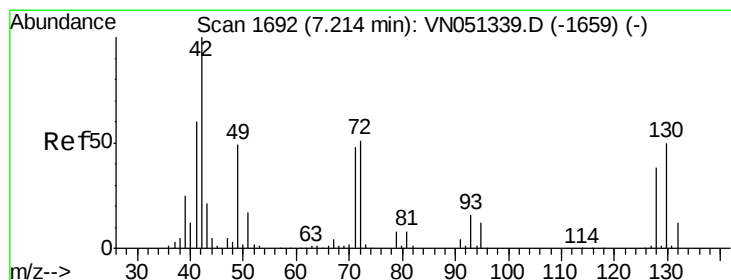
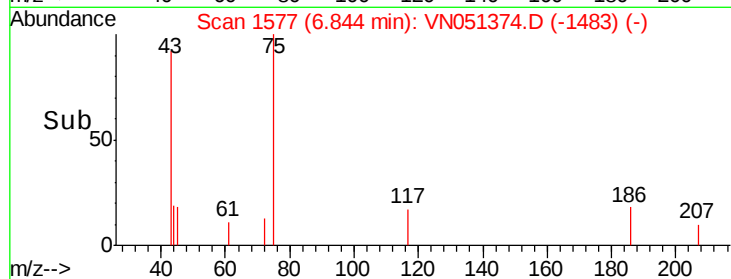
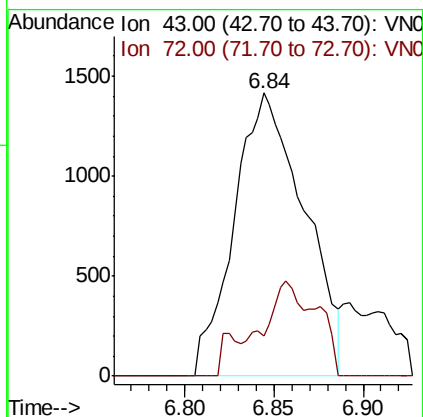
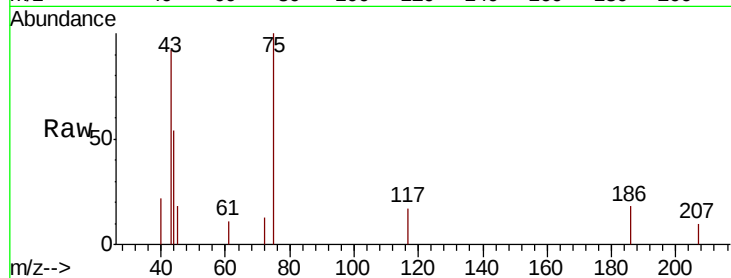
Tgt Ion: 84 Resp: 22981
Ion Ratio Lower Upper
84 100
49 111.7 83.2 124.8
51 31.2 26.4 39.6
86 65.8 51.4 77.0





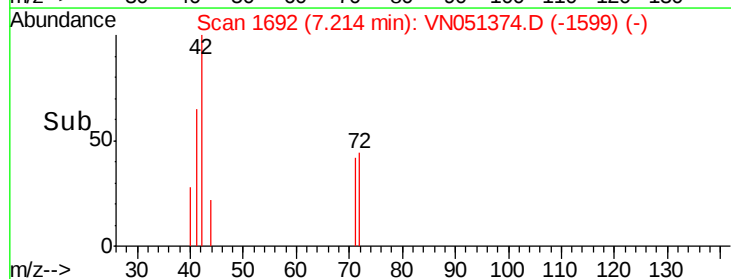
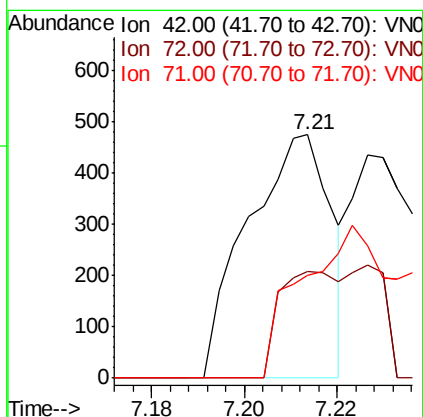
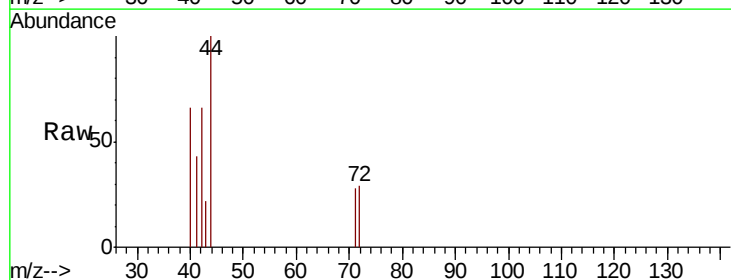
#25
2-Butanone
Concen: 1.535 ug/l
RT: 6.84 min Scan# 1577
Delta R.T. 0.00 min
Lab File: VN051374.D
Acq: 21 Sep 2018 17:24

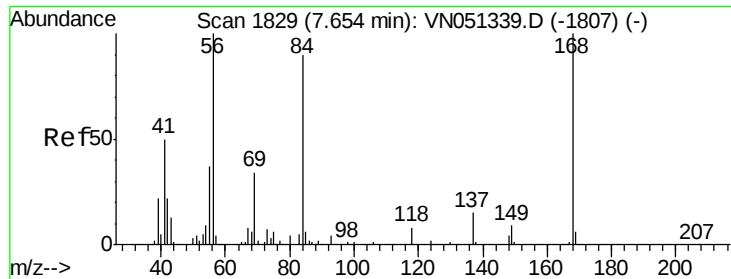
Tot Ion: 43 Resp: 3885
Ion Ratio Lower Upper
43 100
72 14.3 24.7 37.1#



#29
Tetrahydrofuran
Concen: 0.370 ug/l
RT: 7.21 min Scan# 1692
Delta R.T. -0.00 min
Lab File: VN051374.D
Acq: 21 Sep 2018 17:24

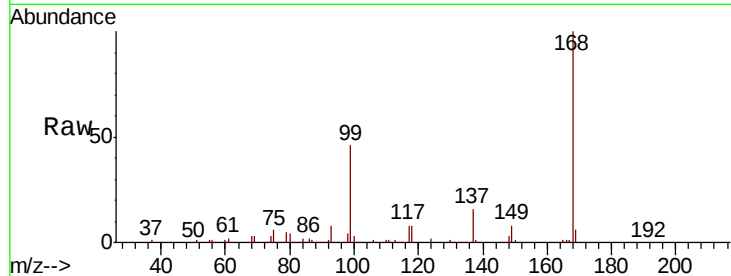
Tgt Ion: 42 Resp: 593
Ion Ratio Lower Upper
42 100
72 31.4 39.0 58.4#
71 0.0 36.5 54.7#



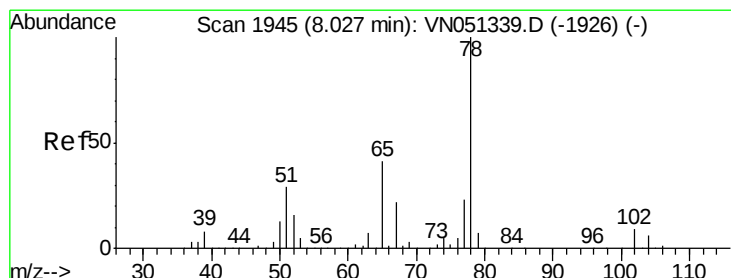
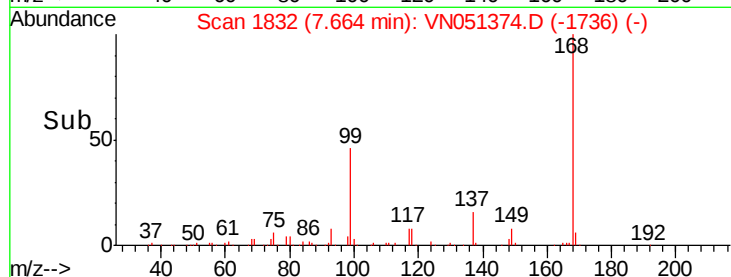
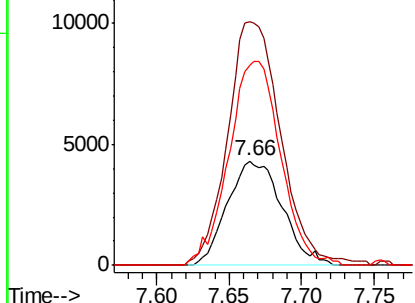


#31
Cvclohexane
Concen: 0.412 ug/l
RT: 7.66 min Scan# 1832
Delta R.T. 0.01 min
Lab File: VN051374.D
Acq: 21 Sep 2018 17:24

Tot Ion: 56 Resp: 11274
Ion Ratio Lower Upper
56 100
69 230.0 27.3 40.9#
84 187.9 72.2 108.2#

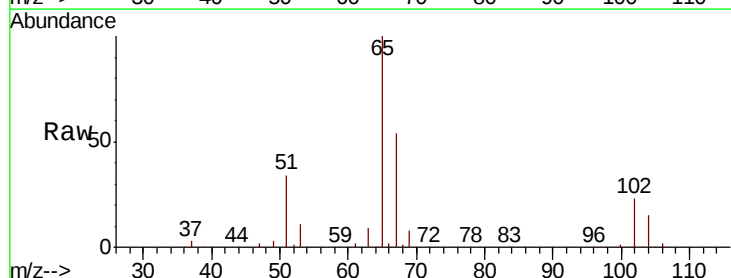


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

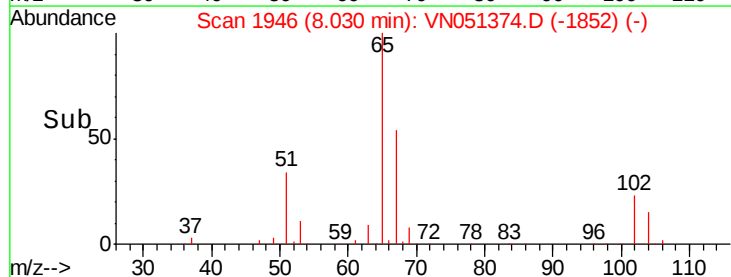
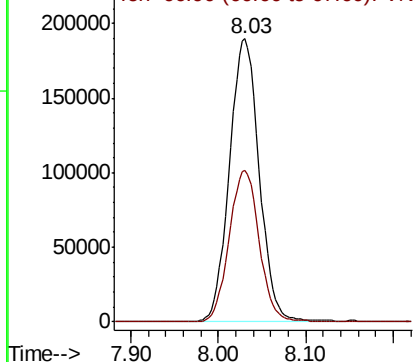


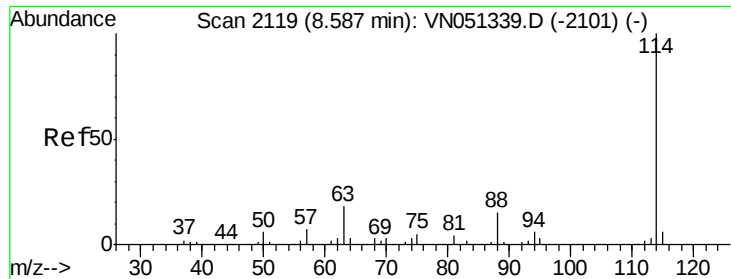
#33
1,2-Dichloroethane-d4
Concen: 50.710 ug/l
RT: 8.03 min Scan# 1946
Delta R.T. 0.00 min
Lab File: VN051374.D
Acq: 21 Sep 2018 17:24

Tgt Ion: 65 Resp: 449150
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

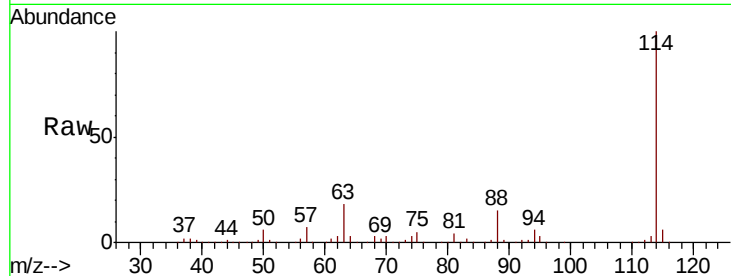




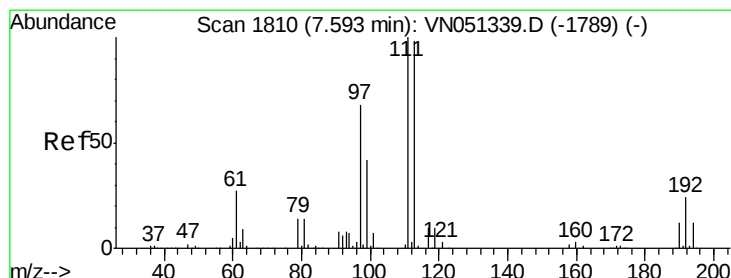
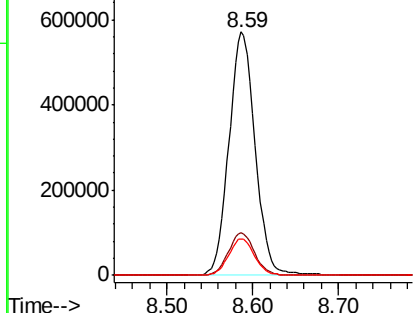
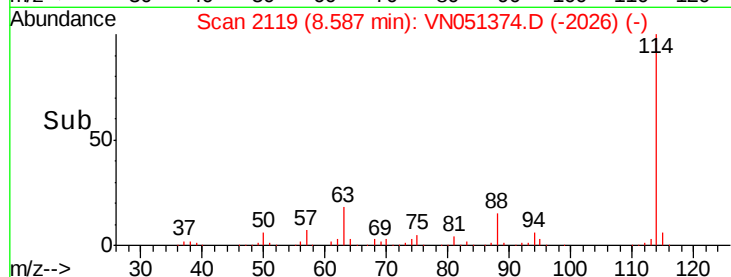
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN051374.D
 Acq: 21 Sep 2018 17:24

Tot Ion:114 Resp: 1206349

Ion	Ratio	Lower	Upper
114	100		
63	17.6	0.0	36.6
88	15.1	0.0	29.8



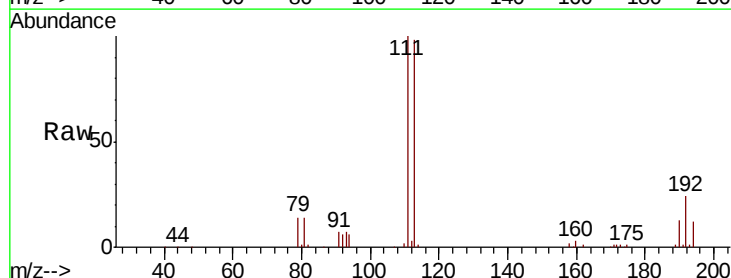
Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN



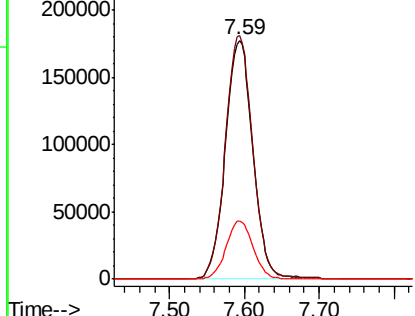
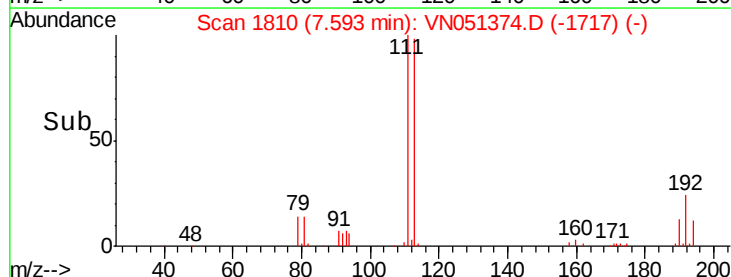
#35
 Dibromofluoromethane
 Concen: 46.568 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN051374.D
 Acq: 21 Sep 2018 17:24

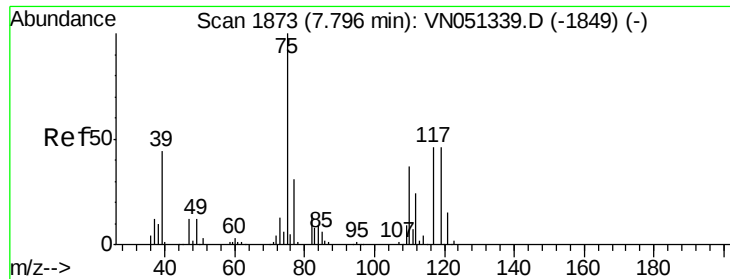
Tgt Ion:113 Resp: 453991

Ion	Ratio	Lower	Upper
113	100		
111	101.5	81.9	122.9
192	23.9	19.8	29.6



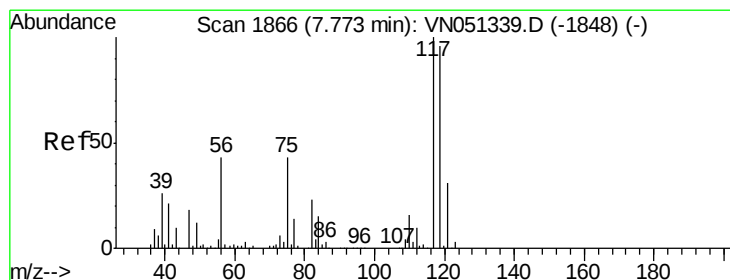
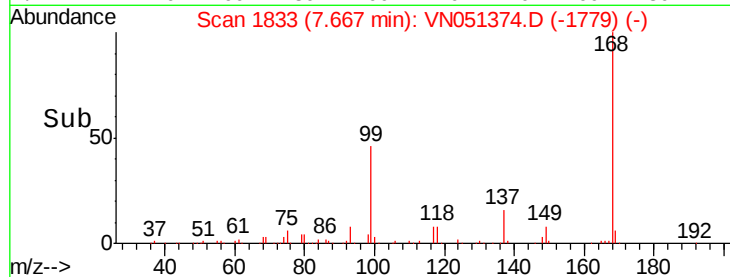
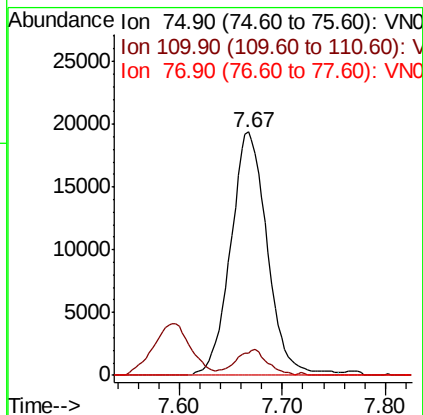
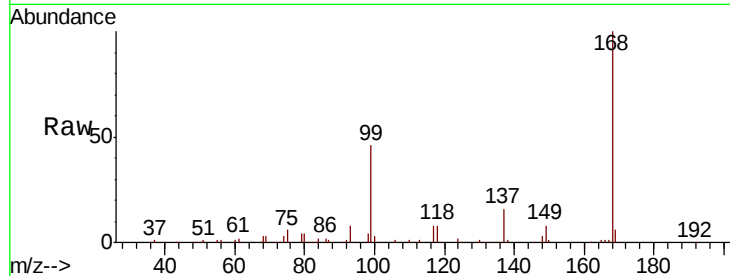
Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V





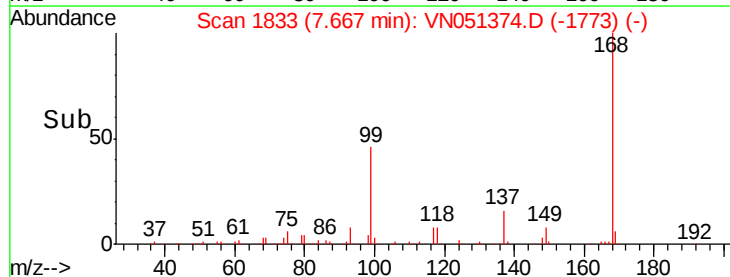
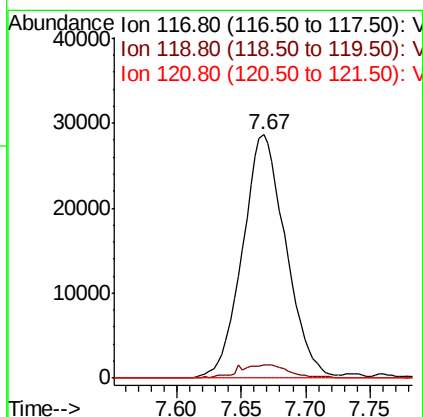
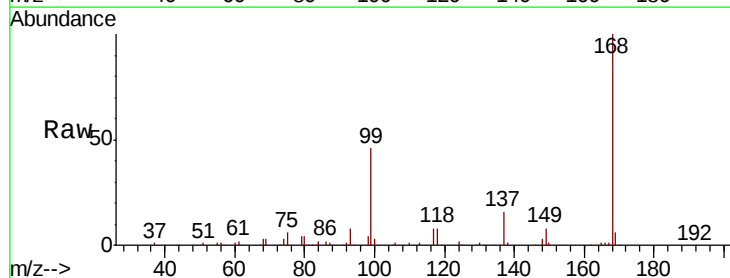
#36
 1,1-Dichloropropene
 Concen: 3.879 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.13 min
 Lab File: VN051374.D
 Acq: 21 Sep 2018 17:24

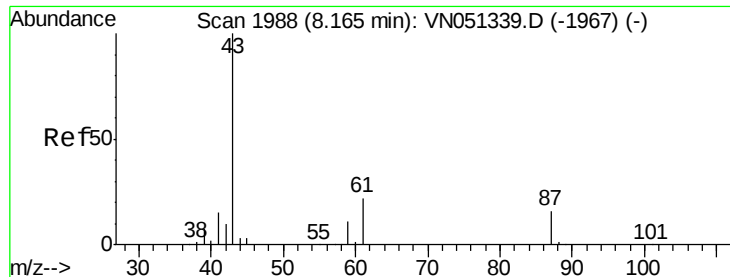
Tot Ion	75	Resp	47868
Ion Ratio	100	Lower	Upper
75	100		
110	9.1	18.9	56.5#
77	0.0	25.4	38.2#



#38
 Carbon Tetrachloride
 Concen: 5.020 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.11 min
 Lab File: VN051374.D
 Acq: 21 Sep 2018 17:24

Tgt Ion	117	Resp	67016
Ion Ratio <td>100</td> <td>Lower</td> <td>Upper</td>	100	Lower	Upper
117	100		
119	5.5	77.0	115.4#
121	0.0	25.0	37.4#





#43

Isopropyl Acetate

Concen: 23.116 ug/l

RT: 8.17 min Scan# 1989

Delta R.T. 0.00 min

Lab File: VN051374.D

Acq: 21 Sep 2018 17:24

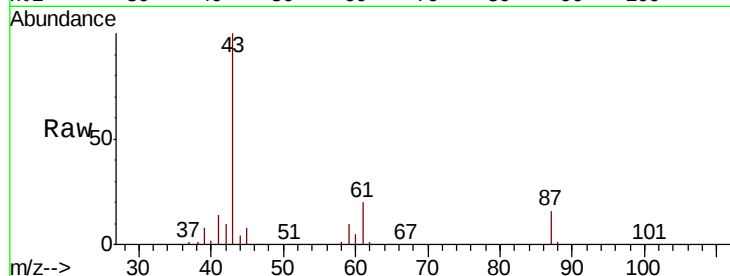
Tot Ion: 43 Resp: 247311

Ion Ratio Lower Upper

43 100

61 18.1 18.1 27.1

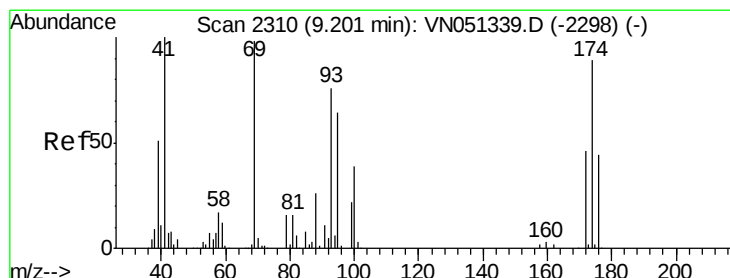
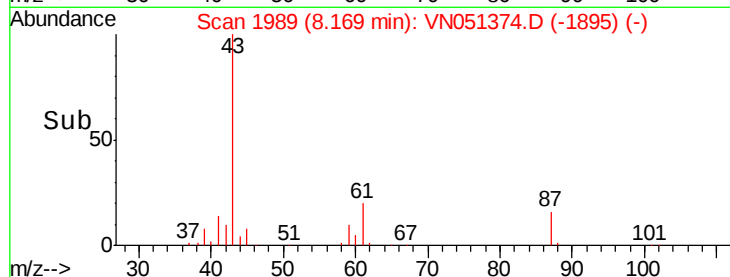
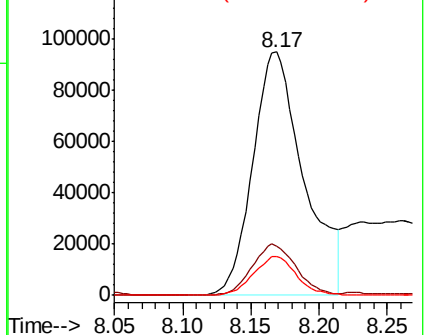
87 13.4 12.8 19.2



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0



#48

Methyl methacrylate

Concen: 1.005 ug/l

RT: 9.18 min Scan# 2304

Delta R.T. -0.02 min

Lab File: VN051374.D

Acq: 21 Sep 2018 17:24

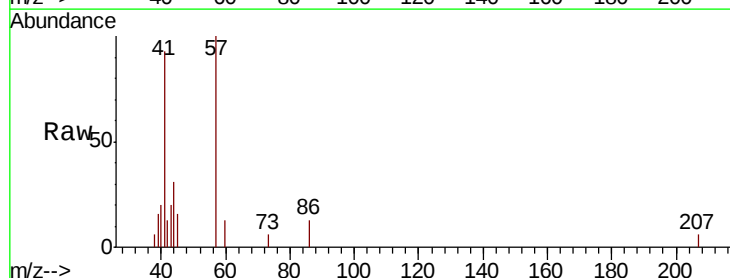
Tgt Ion: 41 Resp: 5481

Ion Ratio Lower Upper

41 100

69 0.0 79.4 119.0#

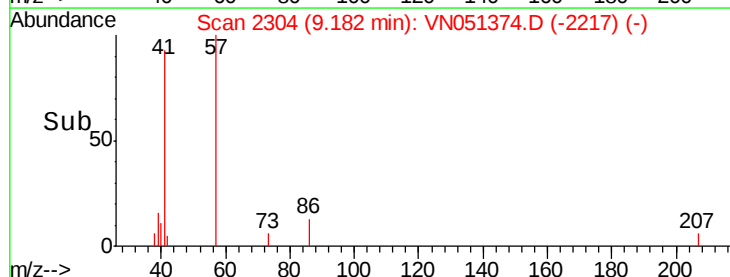
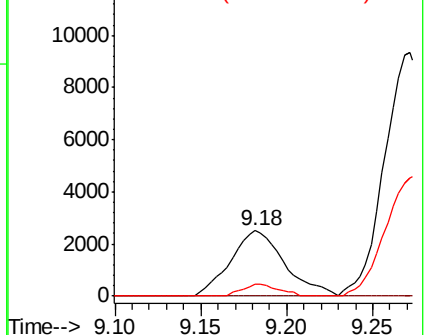
39 11.8 43.0 64.6#

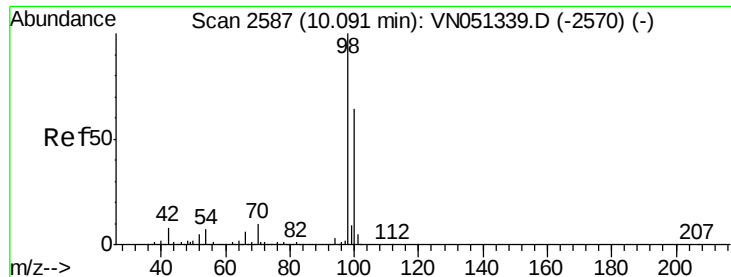


Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 39.00 (38.70 to 39.70): VN0





#50

Toluene-d8

Concen: 42.741 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN051374.D

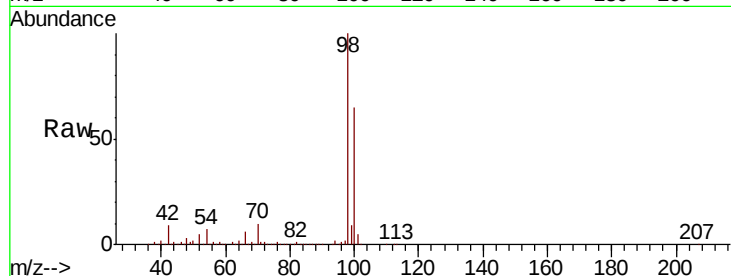
Acq: 21 Sep 2018 17:24

Tot Ion: 98 Resp: 1601841

Ion Ratio Lower Upper

98 100

100 64.0 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) (-)

10.09

800000

600000

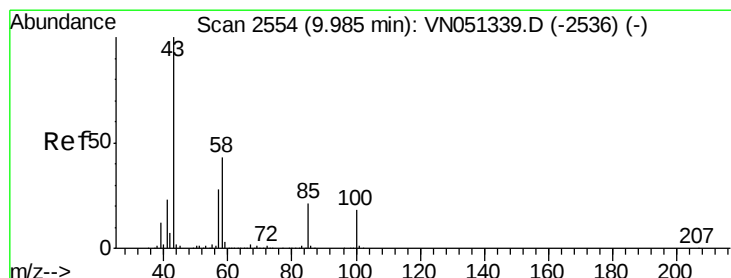
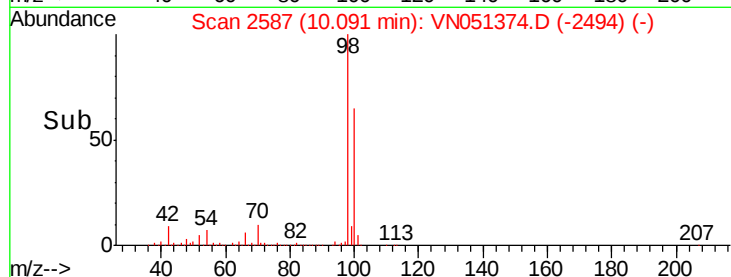
400000

200000

0

Time-->

10.00 10.10 10.20 10.30



#51

4-Methyl-2-Pentanone

Concen: 0.346 ug/l

RT: 9.99 min Scan# 2556

Delta R.T. 0.01 min

Lab File: VN051374.D

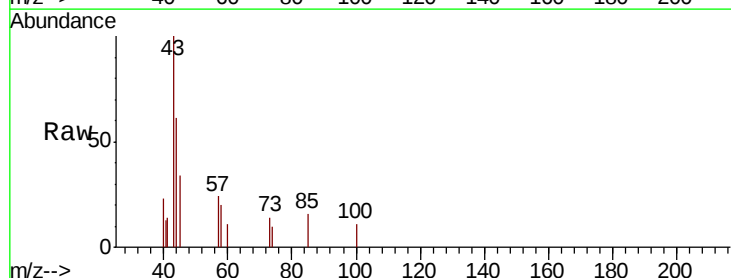
Acq: 21 Sep 2018 17:24

Tgt Ion: 43 Resp: 1994

Ion Ratio Lower Upper

43 100

58 32.8 34.2 51.4#



Abundance Ion 43.00 (42.70 to 43.70): VN051339.D (-2536) (-)

Ion 58.00 (57.70 to 58.70): VN051339.D (-2536) (-)

9.99

1500

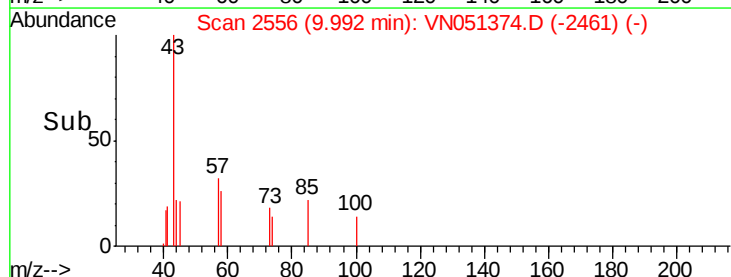
1000

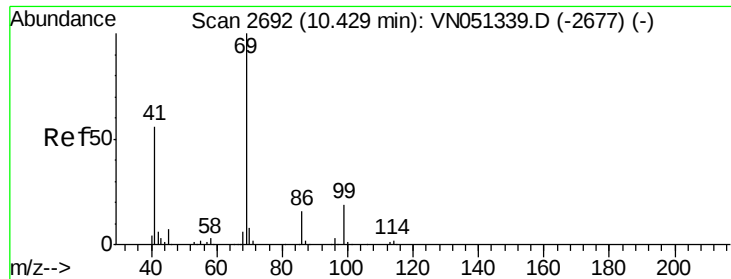
500

0

Time-->

9.95 10.00





#56

Ethyl methacrylate

Concen: 1.583 ug/l

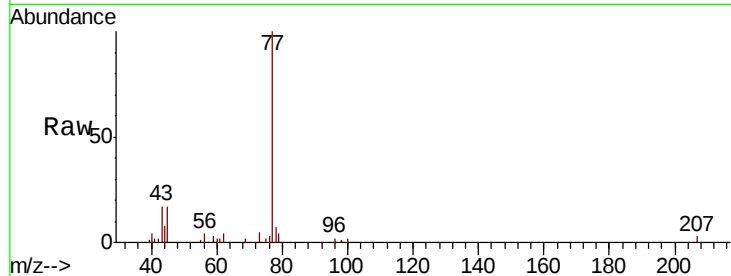
RT: 10.28 min Scan# 2647

Delta R.T. -0.14 min

Lab File: VN051374.D

Acq: 21 Sep 2018 17:24

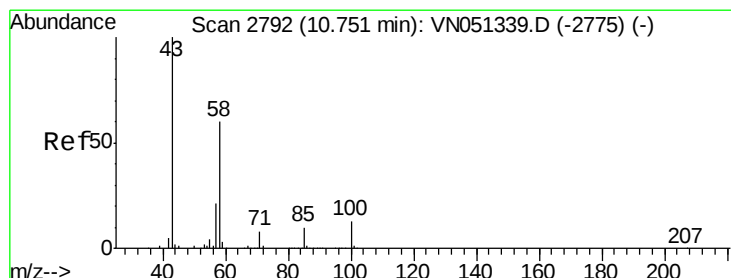
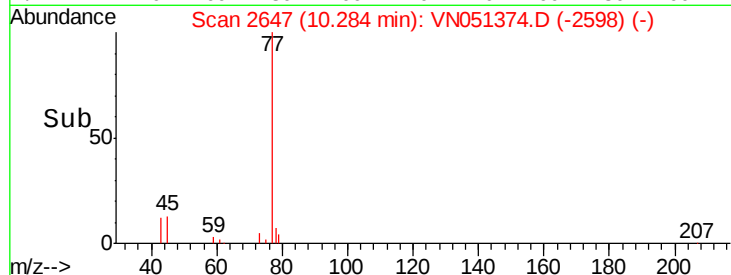
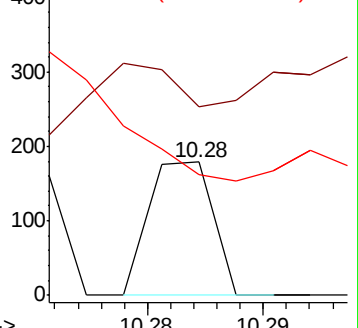
Tot Ion:	69	Resp:	69
Ion	Ratio	Lower	Upper
69	100		
41	0.0	45.1	67.7#
39	0.0	23.4	35.2#



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: 0.218 ug/l

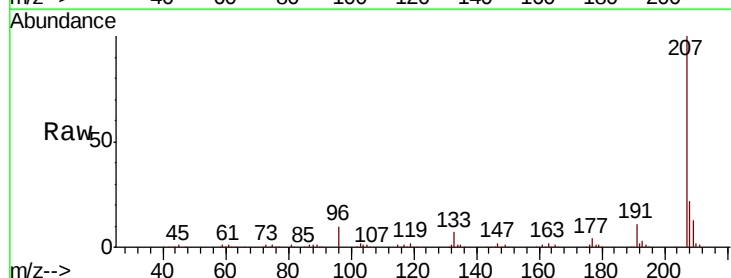
RT: 10.49 min Scan# 2711

Delta R.T. -0.26 min

Lab File: VN051374.D

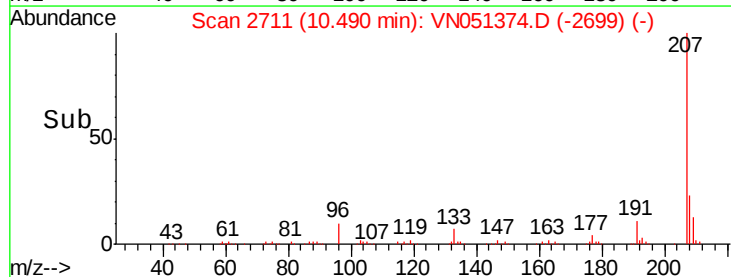
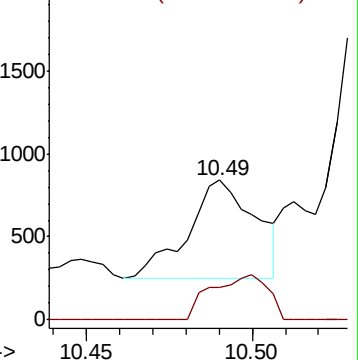
Acq: 21 Sep 2018 17:24

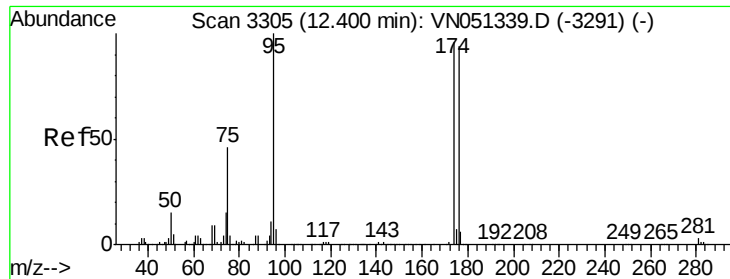
Tgt Ion:	43	Resp:	846
Ion	Ratio	Lower	Upper
43	100		
58	38.2	29.9	89.8



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#62

4-Bromofluorobenzene

Concen: 34.733 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN051374.D

Acq: 21 Sep 2018 17:24

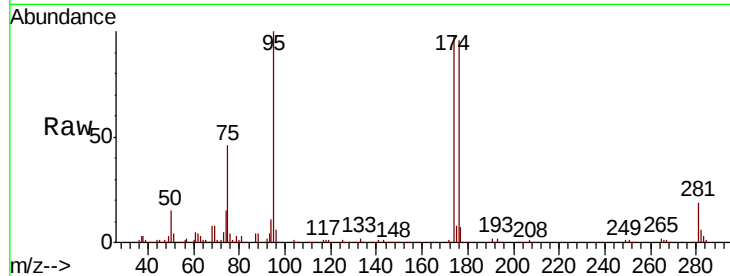
Tot Ion: 95 Resp: 423482

Ion Ratio Lower Upper

95 100

174 98.5 0.0 194.6

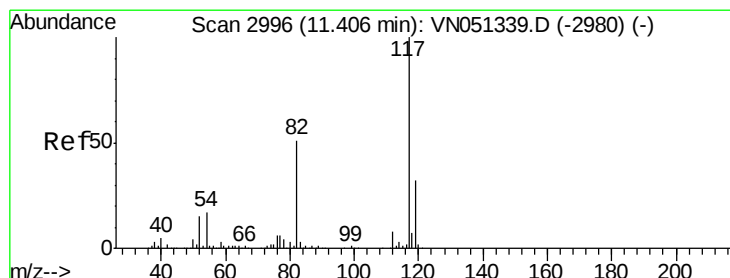
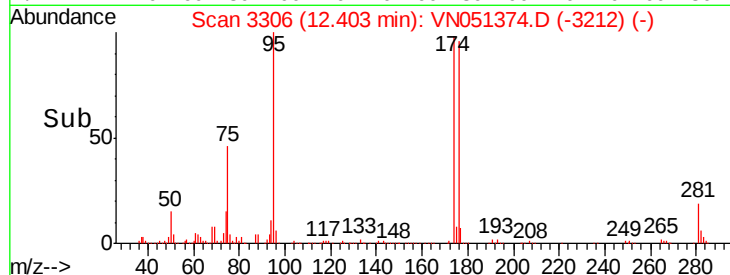
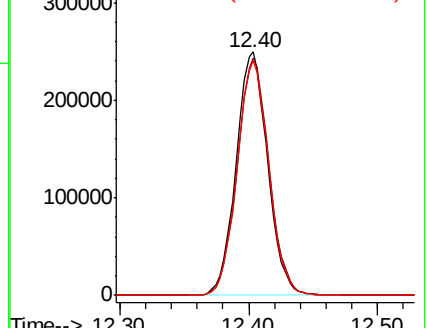
176 96.3 0.0 189.6



Abundance Ion 94.90 (94.60 to 95.60): VN0

Ion 173.80 (173.50 to 174.50): VN0

Ion 175.80 (175.50 to 176.50): VN0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2997

Delta R.T. 0.00 min

Lab File: VN051374.D

Acq: 21 Sep 2018 17:24

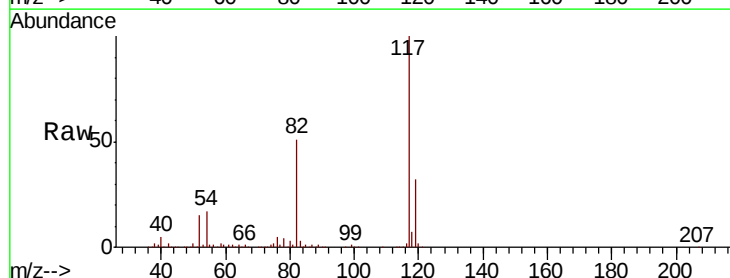
Tgt Ion: 117 Resp: 984393

Ion Ratio Lower Upper

117 100

82 51.4 40.7 61.1

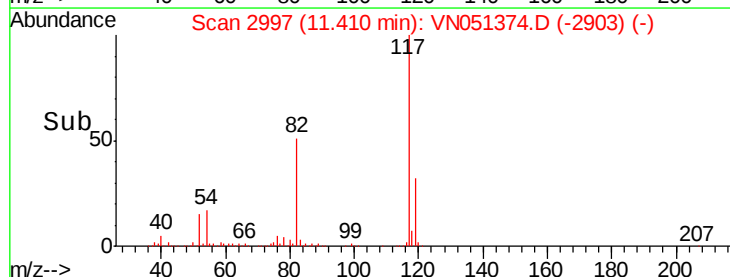
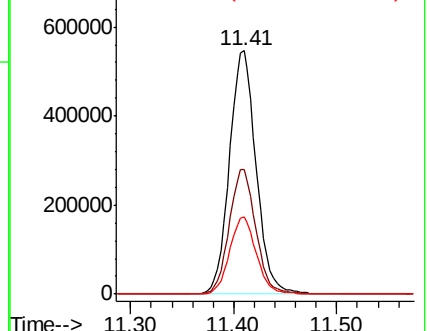
119 31.7 25.3 37.9

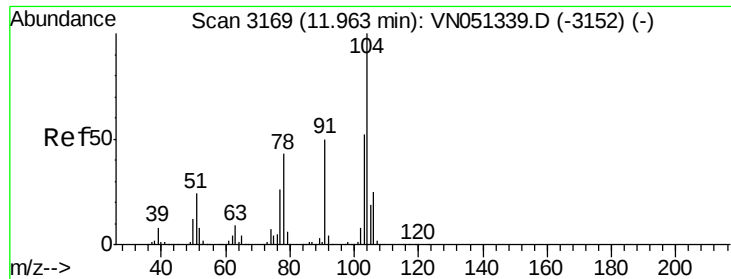


Abundance Ion 116.90 (116.60 to 117.60): VN0

Ion 82.00 (81.70 to 82.70): VN0

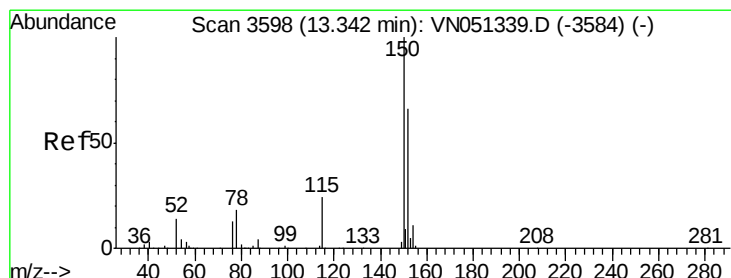
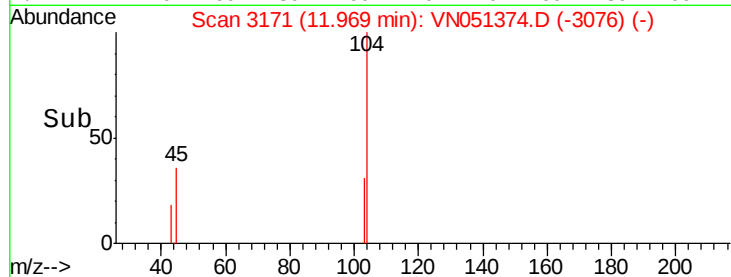
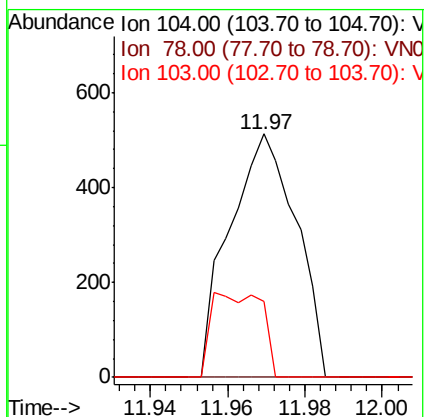
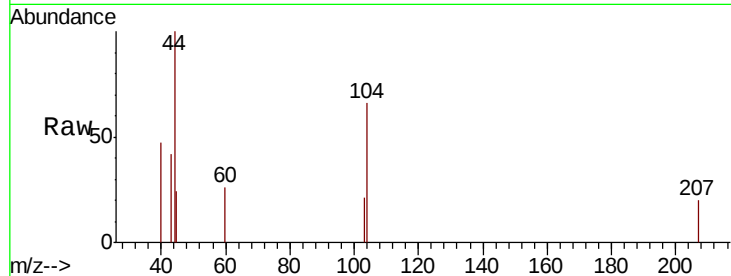
Ion 118.90 (118.60 to 119.60): VN0





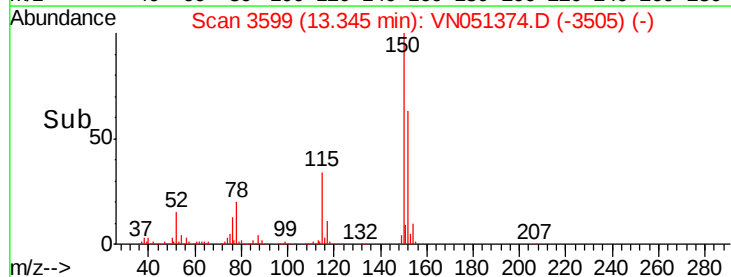
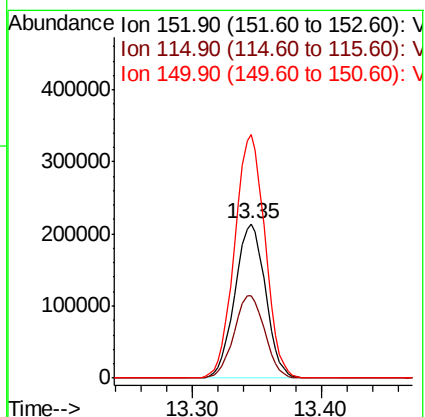
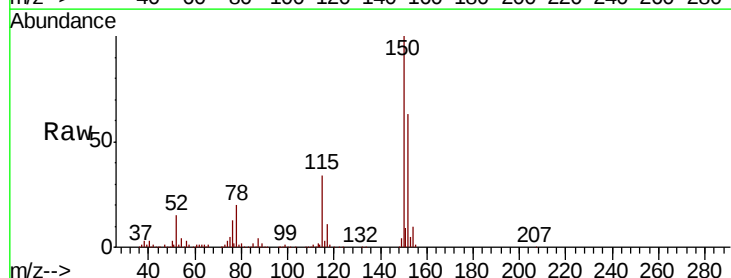
#70
Stvrene
Concen: 0.918 ug/l
RT: 11.97 min Scan# 3171
Delta R.T. 0.01 min
Lab File: VN051374.D
Acq: 21 Sep 2018 17:24

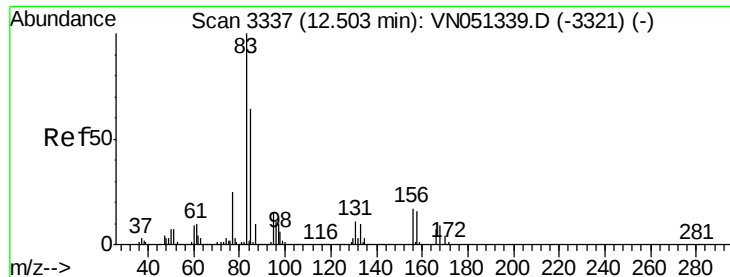
Tot Ion:104 Resp: 613
Ion Ratio Lower Upper
104 100
78 0.0 37.8 56.6#
103 26.6 44.3 66.5#



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.35 min Scan# 3599
Delta R.T. 0.00 min
Lab File: VN051374.D
Acq: 21 Sep 2018 17:24

Tgt Ion:152 Resp: 352588
Ion Ratio Lower Upper
152 100
115 53.6 26.9 80.7
150 156.8 0.0 345.0





#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.40 min Scan# 3306

Delta R.T. -0.10 min

Lab File: VN051374.D

Acq: 21 Sep 2018 17:24

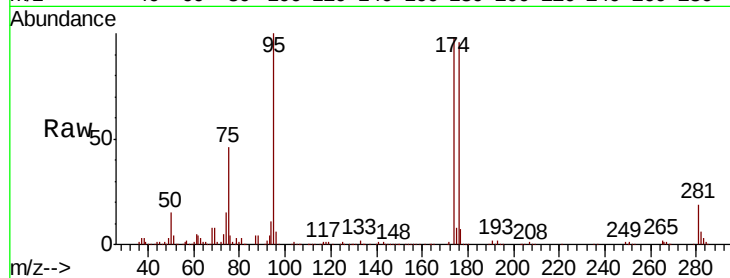
Tot Ion: 83 Resp: 237

Ion Ratio Lower Upper

83 100

131 374.3 5.5 16.7#

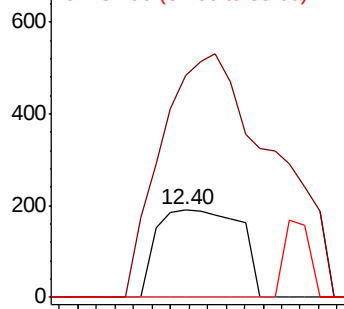
85 0.0 32.3 96.9#



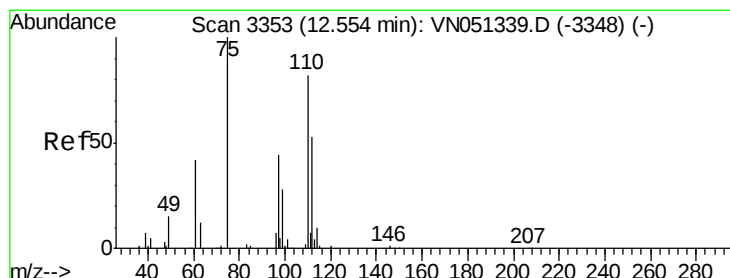
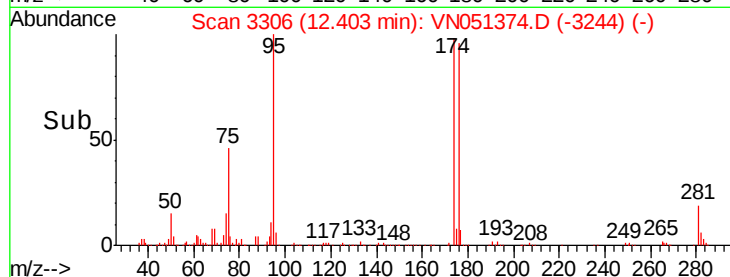
Abundance Ion 82.90 (82.60 to 83.60): VN0

Ion 130.80 (130.50 to 131.50): VN0

Ion 84.90 (84.60 to 85.60): VN0



Time-->



#76

1,2,3-Trichloropropane

Concen: 41.986 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN051374.D

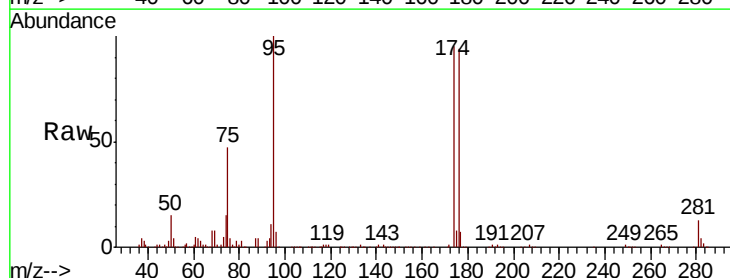
Acq: 21 Sep 2018 17:24

Tgt Ion: 75 Resp: 197670

Ion Ratio Lower Upper

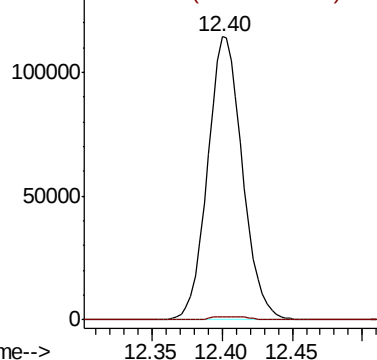
75 100

77 1.3 0.0 0.0#

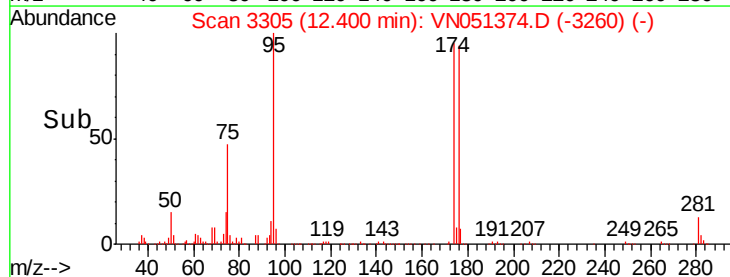


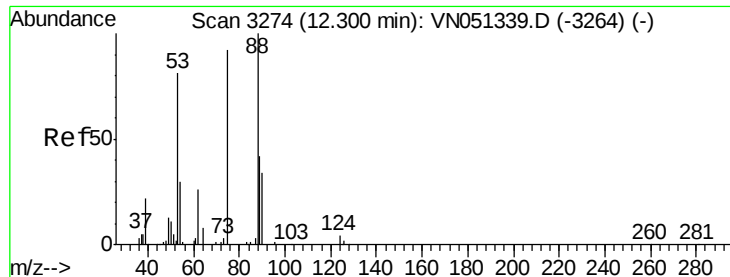
Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0



Time-->





#81

trans-1,4-Dichloro-2-butene

Concen: 125.693 ug/l

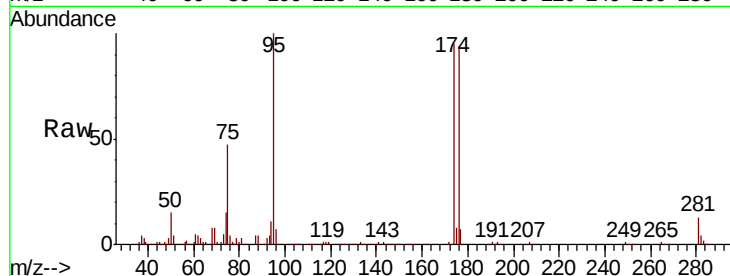
RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN051374.D

Acq: 21 Sep 2018 17:24

Tot Ion:	75	Resp:	197670
Ion	Ratio	Lower	Upper
75	100		
53	0.1	69.9	104.9#
89	0.0	37.9	56.9#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0

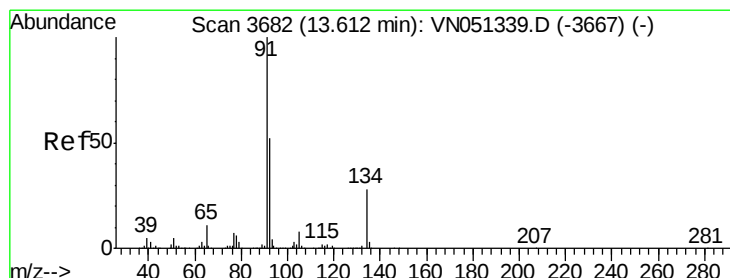
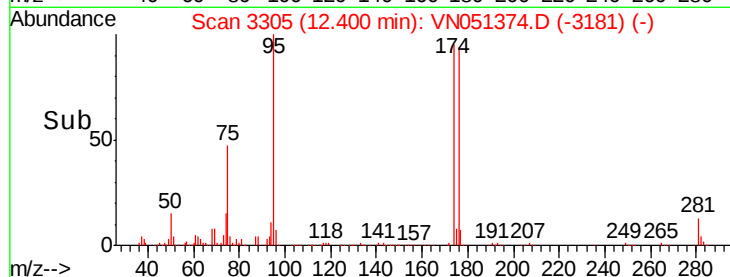
12.40

100000

50000

0

Time-->



#89

n-Butylbenzene

Concen: 1.437 ug/l

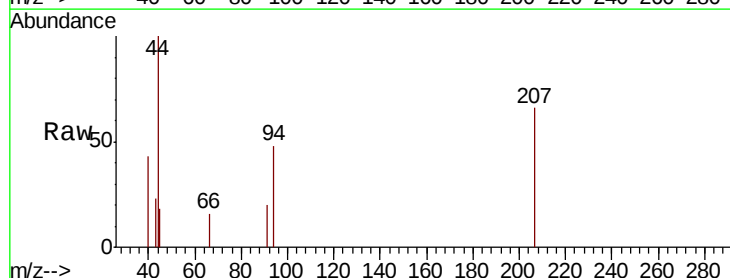
RT: 13.62 min Scan# 3684

Delta R.T. 0.01 min

Lab File: VN051374.D

Acq: 21 Sep 2018 17:24

Tgt Ion:	91	Resp:	164
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): VN0

Ion 92.00 (91.70 to 92.70): VN0

Ion 134.00 (133.70 to 134.70): V

250

200

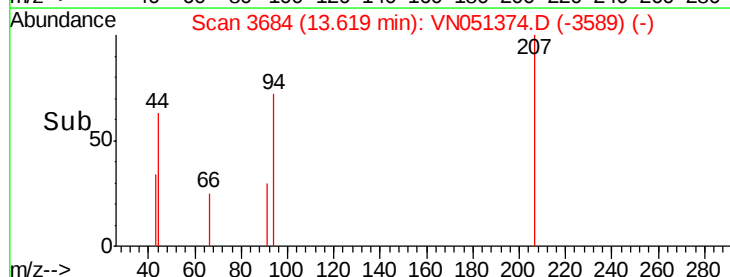
150

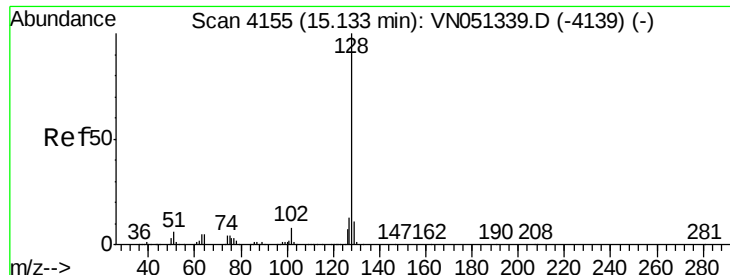
100

50

0

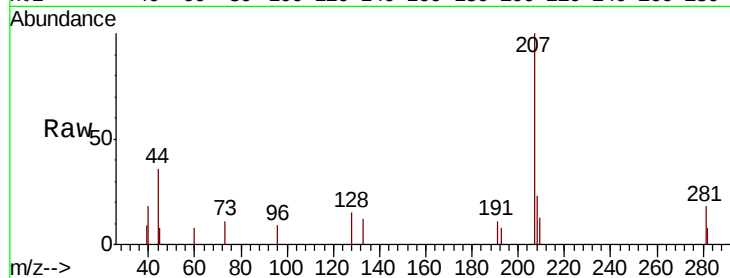
Time-->





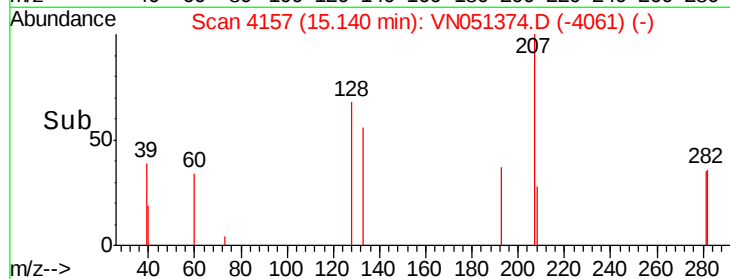
#95
Naphthalene
Concen: 5.358 ug/l
RT: 15.14 min Scan# 4157
Delta R.T. 0.01 min
Lab File: VN051374.D
Acq: 21 Sep 2018 17:24

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



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

15.14



Time--> 15.10 15.12 15.14 15.16