

Data Path : Z:\HPCHEM1\MSVOA_F\DATA\VF011019\
 Data File : VF061349.D
 Acq On : 10 Jan 2019 17:42
 Operator : VA/AP
 Sample : K1087-11RE
 Misc : 5.57g/5mL/MSVOA-F/SOIL
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jan 11 00:32:00 2019
 Quant Method : Z:\HPCHEM1\MSVOA_F\METHODS\82F010819S.M
 Quant Title : SW846 8260
 QLast Update : Wed Jan 09 07:13:51 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	0.00	168	0	0.00	ug/l	-4.87
34) 1,4-Difluorobenzene	5.25	114	60	50.00	ug/l	-0.36
63) Chlorobenzene-d5	0.00	117	0	0.00	ug/l	-9.79
72) 1,4-Dichlorobenzene-d4	12.57	152	75	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	0.00	65	0	0.00	ug/l	
Spiked Amount	50.000		Recovery	=	0.00%	
35) Dibromofluoromethane	0.00	113	0	0.00	ug/l	
Spiked Amount	50.000		Recovery	=	0.00%	
50) Toluene-d8	0.00	98	0	0.00	ug/l	
Spiked Amount	50.000		Recovery	=	0.00%	
62) 4-Bromofluorobenzene	10.67	95	120	202.28	ug/l	-0.74
Spiked Amount	50.000		Recovery	=	404.56%	

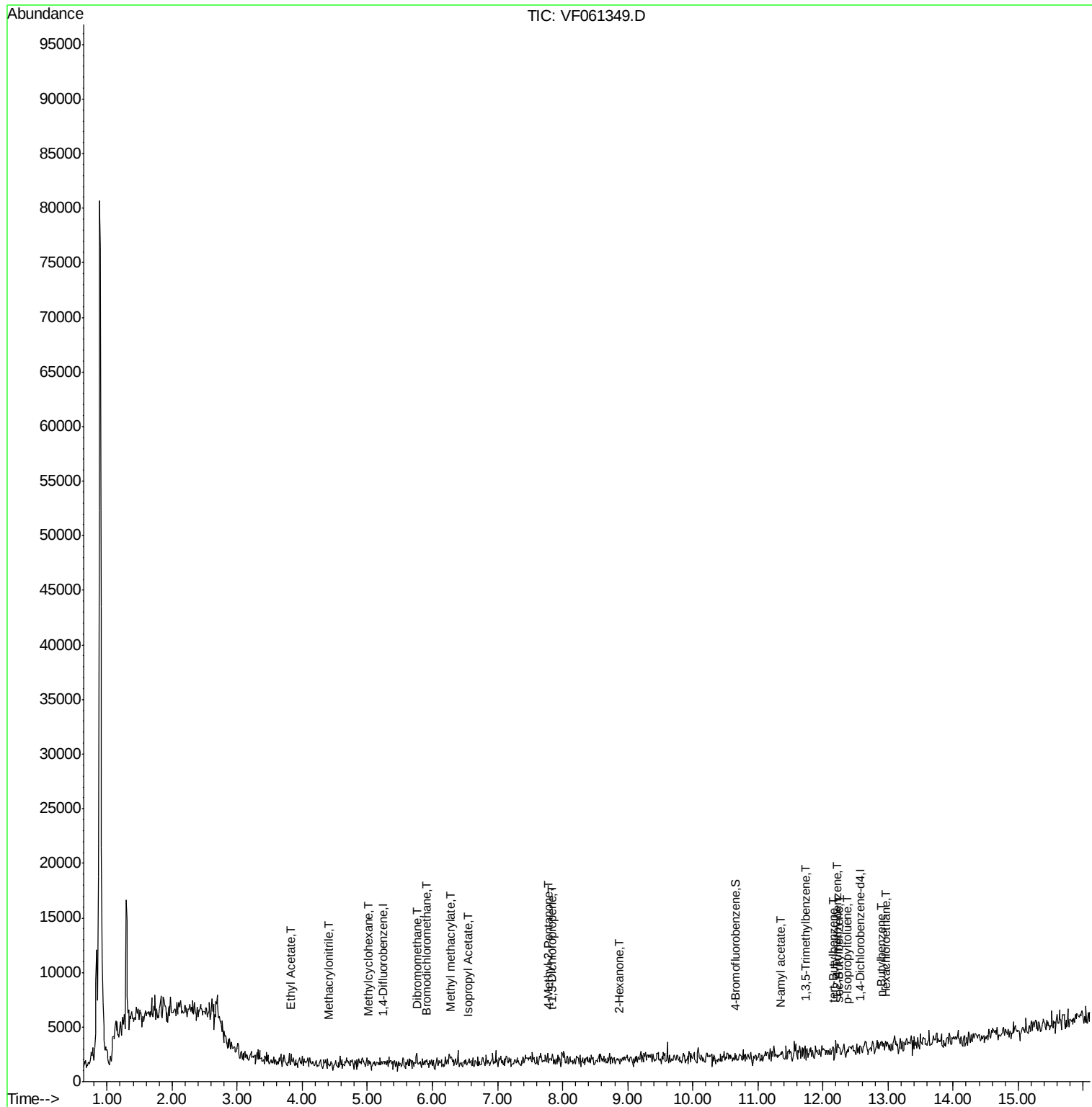
Target Compounds

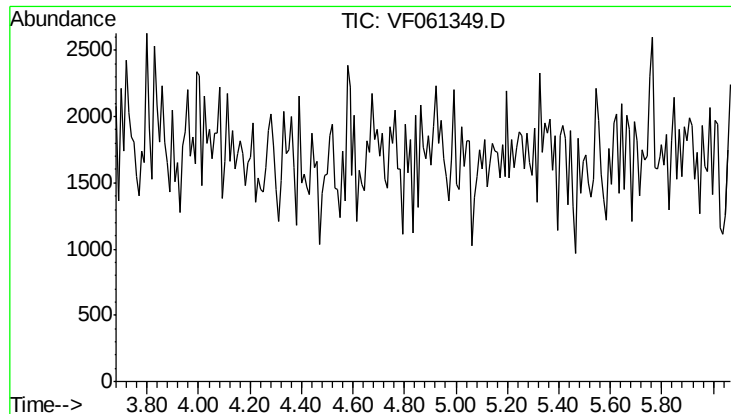
						Qvalue
37) Ethyl Acetate	3.84	43	100	391.923	ug/l #	1
39) Methylcyclohexane	5.03	83	73	83.267	ug/l #	68
41) Methacrylonitrile	4.42	41	102	715.860	ug/l #	24
43) Isopropyl Acetate	6.54	43	88	261.235	ug/l #	45
46) Dibromomethane	5.77	93	62	242.753	ug/l #	8
47) Bromodichloromethane	5.92	83	62	97.607	ug/l #	25
48) Methyl methacrylate	6.29	41	62	283.553	ug/l #	21
51) 4-Methyl-2-Pentanone	7.76	43	321	1262.477	ug/l #	38
53) t-1,3-Dichloropropene	7.84	75	88	176.411	ug/l #	44
59) 2-Hexanone	8.87	43	77	427.464	ug/l #	27
74) N-amyl acetate	11.35	43	113	75.323	ug/l #	37
80) 1,3,5-Trimethylbenzene	11.72	105	75	14.282	ug/l #	27
83) tert-Butylbenzene	12.15	119	62	11.850	ug/l #	29
84) 1,2,4-Trimethylbenzene	12.22	105	302	57.924	ug/l #	28
85) sec-Butylbenzene	12.25	105	78	10.470	ug/l #	57
86) p-Isopropyltoluene	12.37	119	75	12.378	ug/l #	50
89) n-Butylbenzene	12.89	91	76	12.207	ug/l #	27
90) Hexachloroethane	12.96	117	79	56.997	ug/l #	23

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

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#1

Pentafluorobenzene

Concen: 0.000 ug/l

Expected RT: 4.87 min

Lab File: VF061349.D

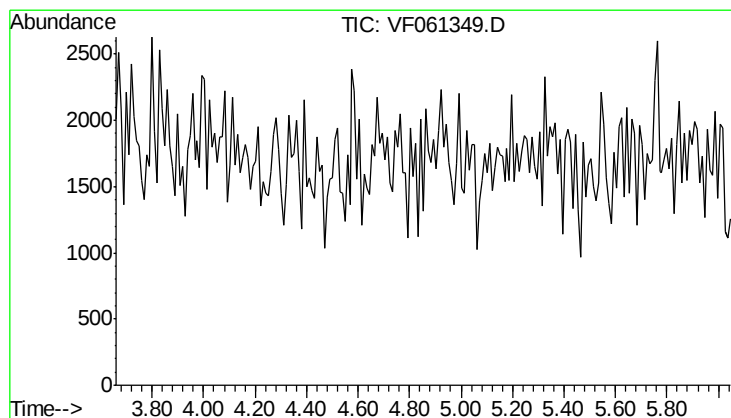
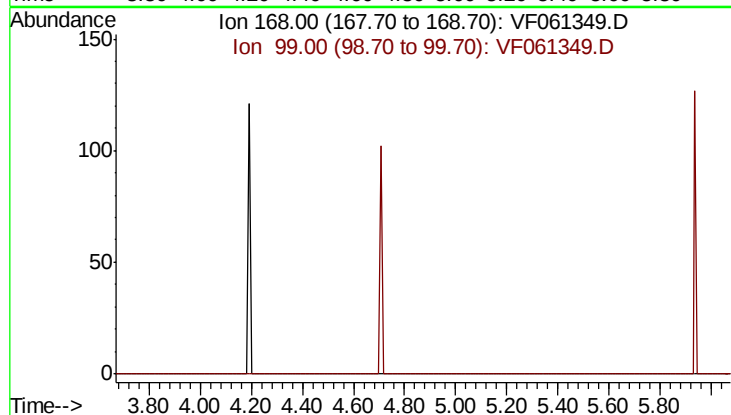
Acq: 10 Jan 2019 17:42

Tgt Ion: 168

Sig Exp Ratio

168 100

99 65.9



#33

1,2-Dichloroethane-d4

Concen: 0.000 ug/l

Expected RT: 4.85 min

Lab File: VF061349.D

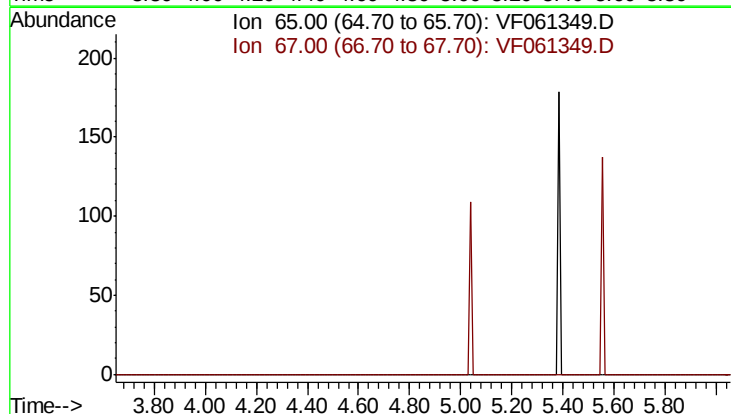
Acq: 10 Jan 2019 17:42

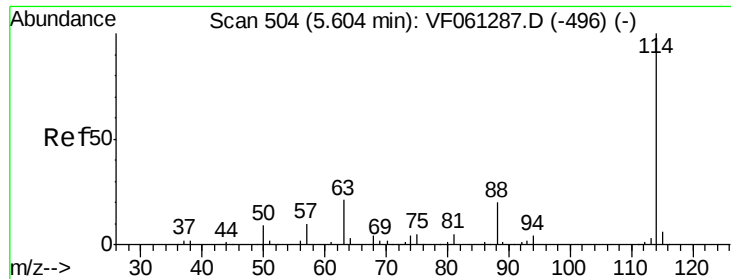
Tgt Ion: 65

Sig Exp Ratio

65 100

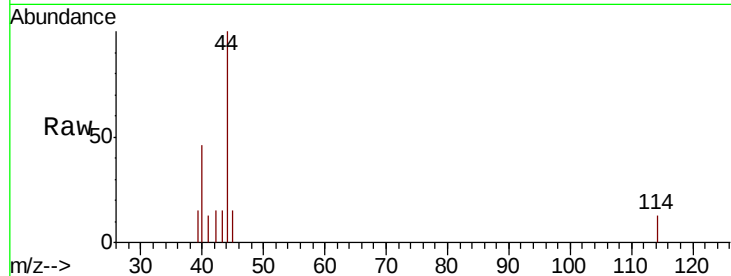
67 49.1



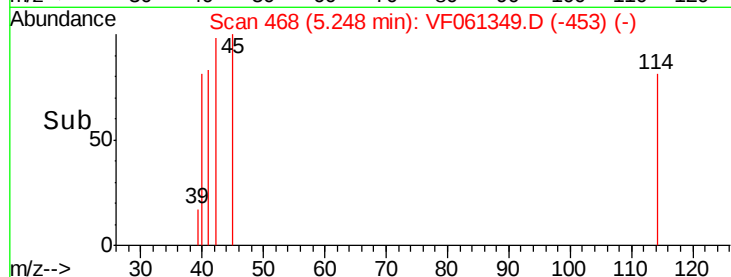
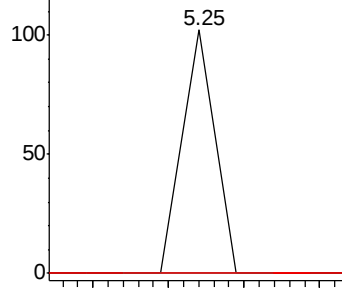


#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.25 min Scan# 468
 Delta R.T. -0.36 min
 Lab File: VF061349.D
 Acq: 10 Jan 2019 17:42

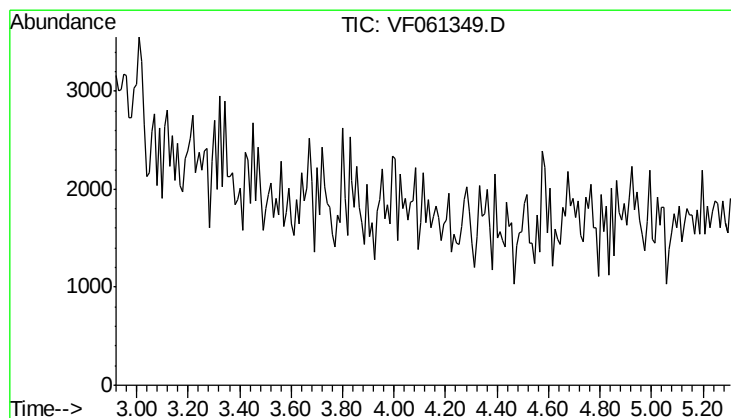
Tgt Ion: 114 Resp: 60
 Ion Ratio Lower Upper
 114 100
 63 0.0 0.0 42.8
 88 0.0 0.0 40.0



Abundance Ion 114.00 (113.70 to 114.70): V
 Ion 63.00 (62.70 to 63.70): VF0
 Ion 88.00 (87.70 to 88.70): VF0



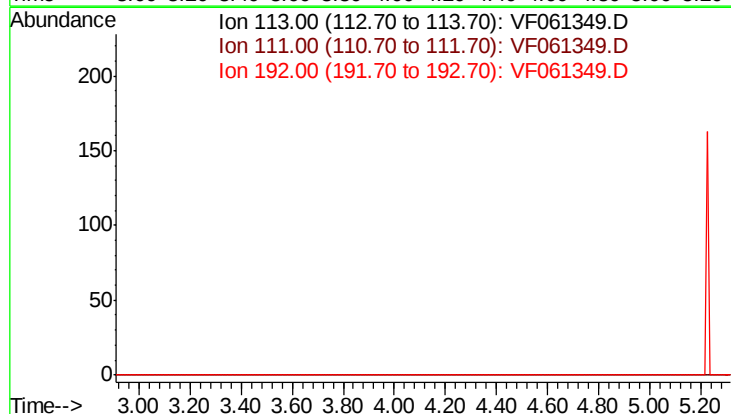
Time-->

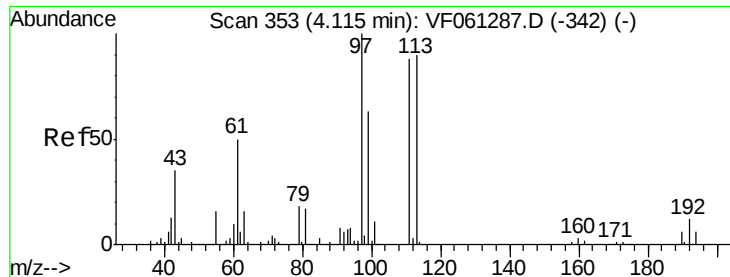


#35
 Dibromofluoromethane
 Concen: 0.000 ug/l
 Expected RT: 4.11 min

Lab File: VF061349.D
 Acq: 10 Jan 2019 17:42

Tgt Ion: 113
 Sig Exp Ratio
 113 100
 111 97.5
 192 13.3





#37

Ethyl Acetate

Concen: 391.923 ug/l

RT: 3.84 min Scan# 325

Delta R.T. -0.28 min

Lab File: VF061349.D

Acq: 10 Jan 2019 17:42

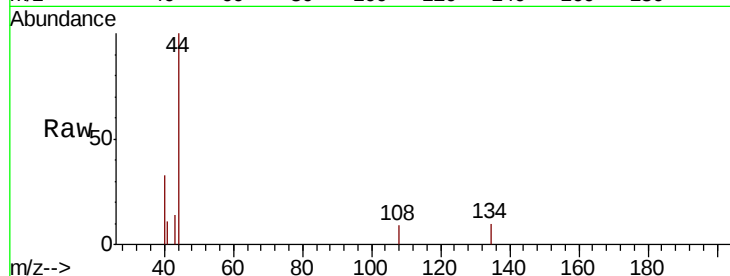
Tgt Ion: 43 Resp: 100

Ion Ratio Lower Upper

43 100

61 0.0 113.3 169.9#

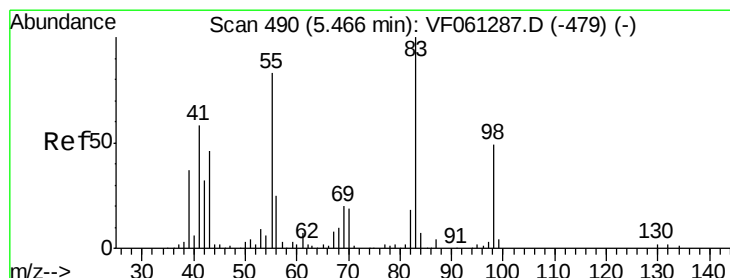
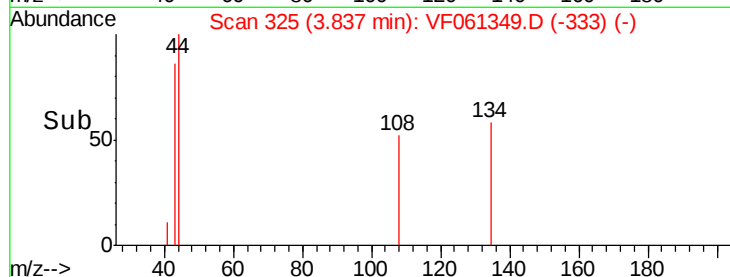
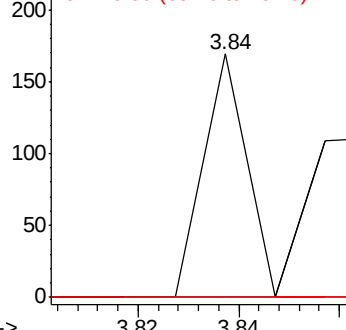
70 0.0 9.4 14.0#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 70.00 (69.70 to 70.70): VF0



#39

Methylcyclohexane

Concen: 83.267 ug/l

RT: 5.03 min Scan# 446

Delta R.T. -0.44 min

Lab File: VF061349.D

Acq: 10 Jan 2019 17:42

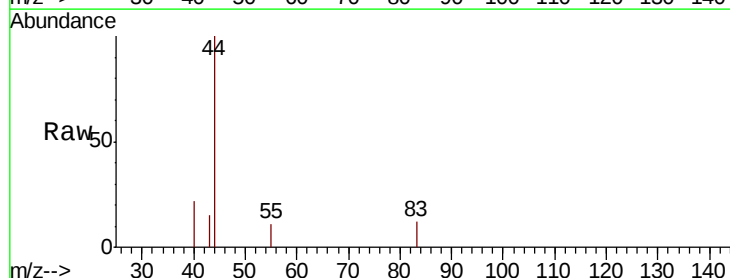
Tgt Ion: 83 Resp: 73

Ion Ratio Lower Upper

83 100

55 91.1 66.4 99.6

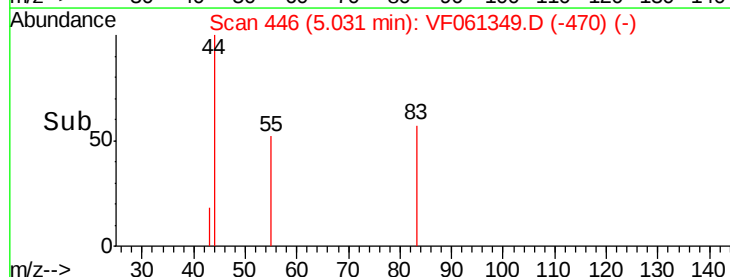
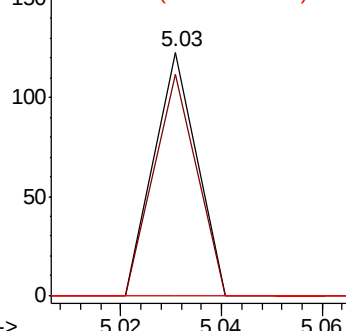
98 0.0 39.1 58.7#

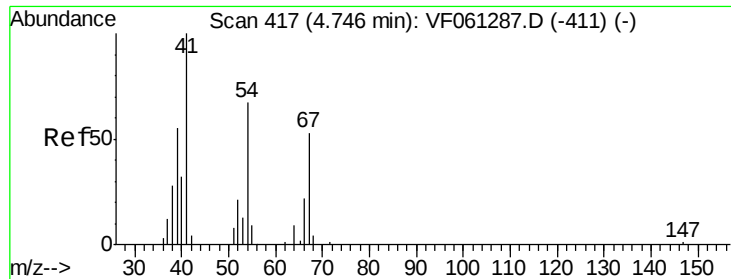


Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 98.00 (97.70 to 98.70): VF0





#41

Methacrylonitrile

Concen: 715.860 ug/l

RT: 4.42 min Scan# 384

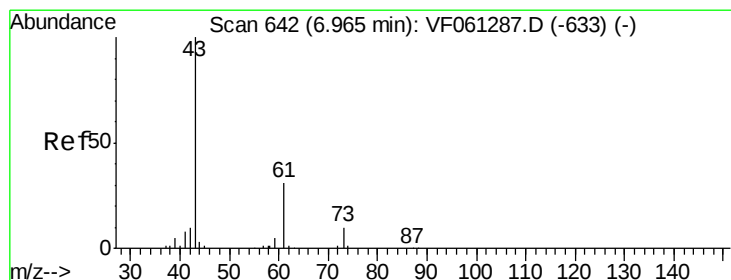
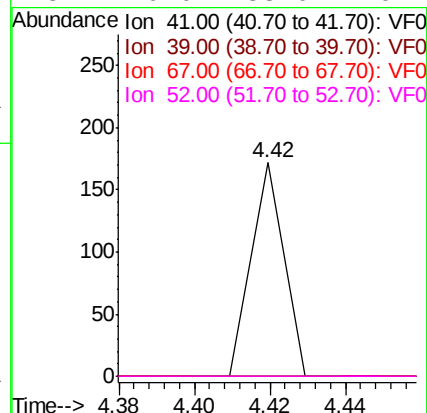
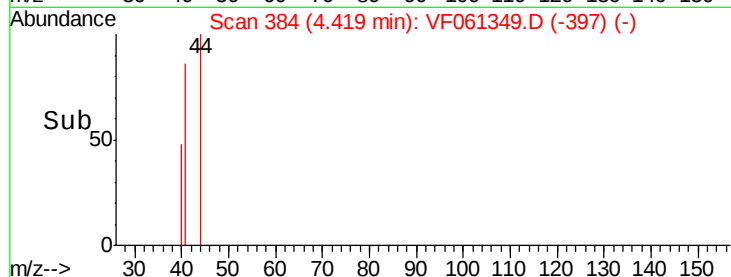
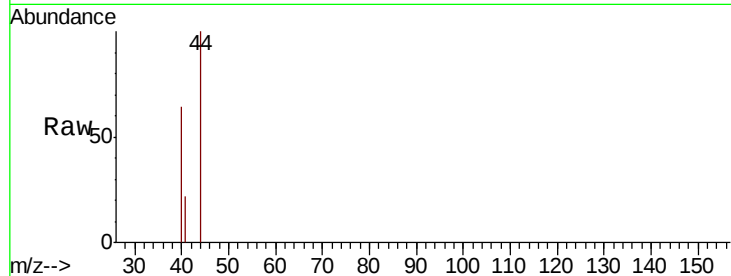
Delta R.T. -0.33 min

Lab File: VF061349.D

Acq: 10 Jan 2019 17:42

Tgt Ion: 41 Resp: 102

Ion	Ratio	Lower	Upper
41	100		
39	0.0	52.7	79.1#
67	0.0	41.4	62.2#
52	0.0	33.0	49.4#



#43

Isopropyl Acetate

Concen: 261.235 ug/l

RT: 6.54 min Scan# 599

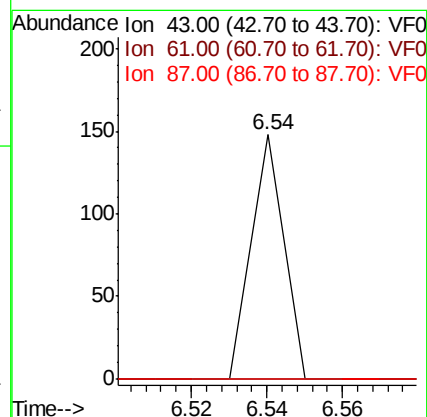
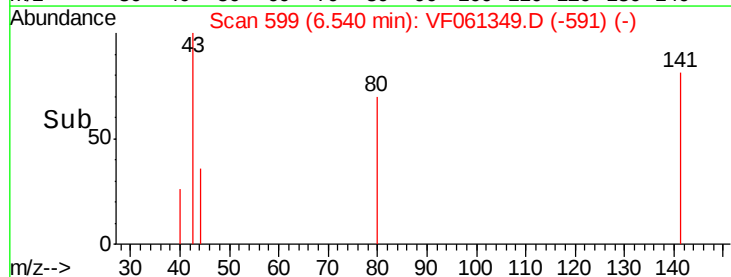
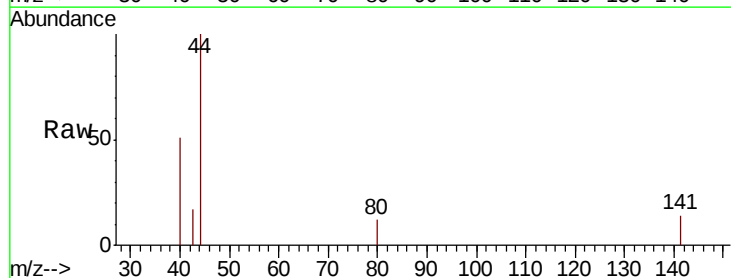
Delta R.T. -0.43 min

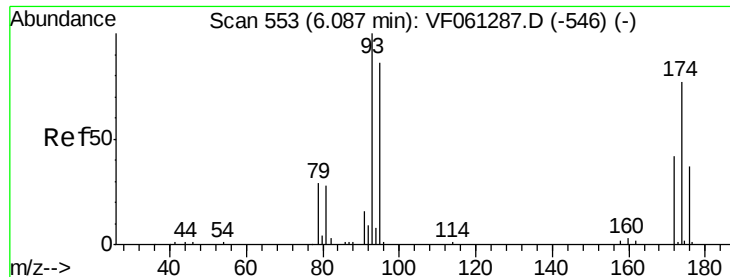
Lab File: VF061349.D

Acq: 10 Jan 2019 17:42

Tgt Ion: 43 Resp: 88

Ion	Ratio	Lower	Upper
43	100		
61	0.0	24.3	36.5#
87	0.0	0.2	0.4#





#46

Dibromomethane

Concen: 242.753 ug/l

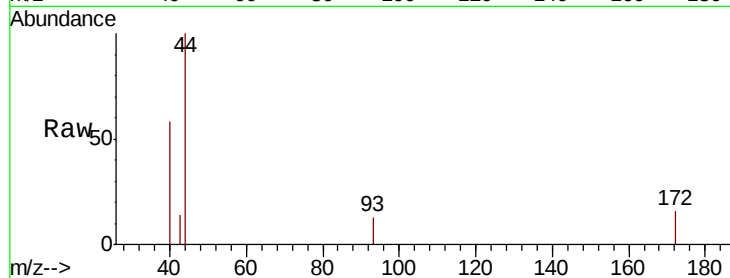
RT: 5.77 min Scan# 521

Delta R.T. -0.32 min

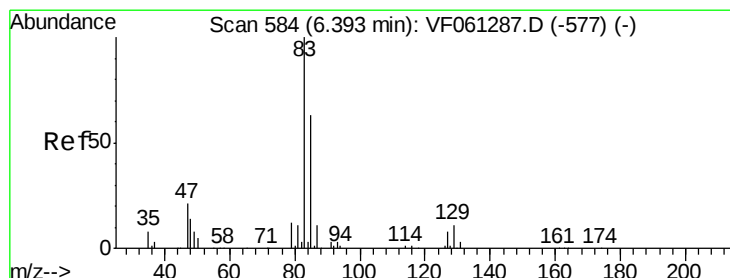
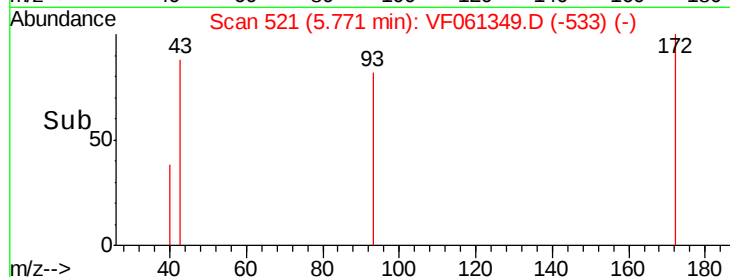
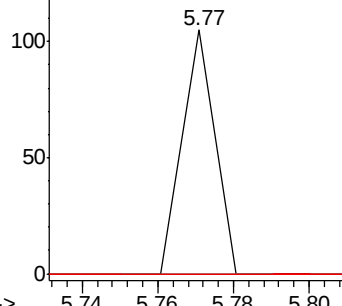
Lab File: VF061349.D

Acq: 10 Jan 2019 17:42

Tgt Ion:	93	Resp:	62
Ion	Ratio	Lower	Upper
93	100		
95	0.0	68.8	103.2#
174	0.0	62.9	94.3#



Abundance Ion 93.00 (92.70 to 93.70): VF0
Ion 95.00 (94.70 to 95.70): VF0
Ion 174.00 (173.70 to 174.70): V



#47

Bromodichloromethane

Concen: 97.607 ug/l

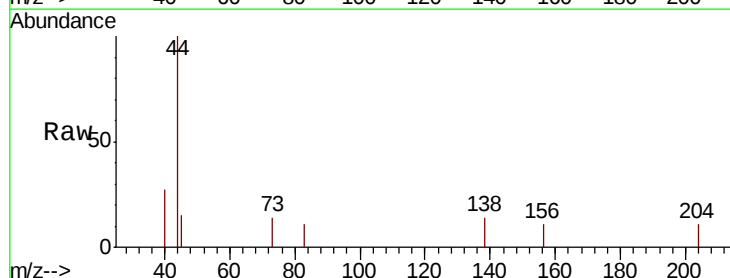
RT: 5.92 min Scan# 536

Delta R.T. -0.47 min

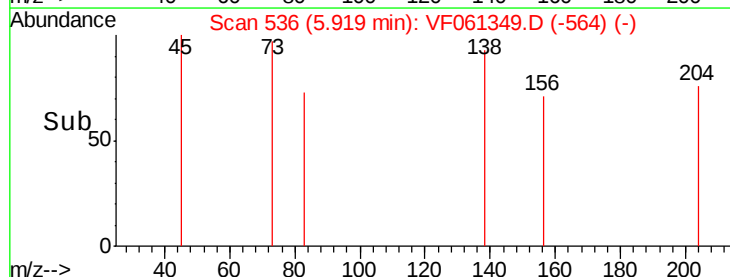
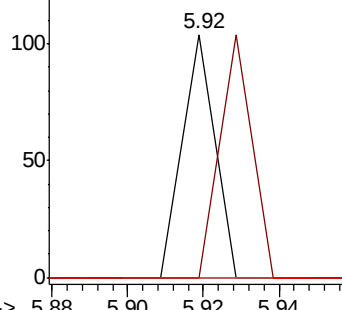
Lab File: VF061349.D

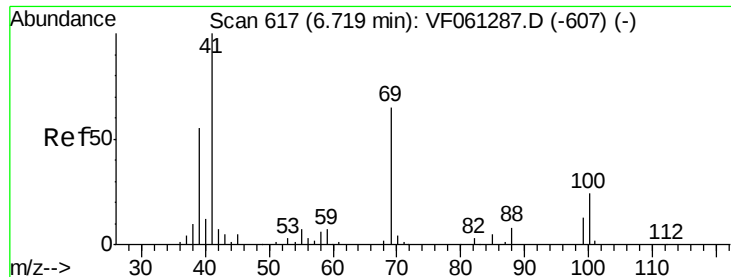
Acq: 10 Jan 2019 17:42

Tgt Ion:	83	Resp:	62
Ion	Ratio	Lower	Upper
83	100		
85	0.0	50.4	75.6#
127	0.0	6.4	9.6#



Abundance Ion 83.00 (82.70 to 83.70): VF0
Ion 85.00 (84.70 to 85.70): VF0
Ion 127.00 (126.70 to 127.70): V





#48

Methyl methacrylate

Concen: 283.553 ug/l

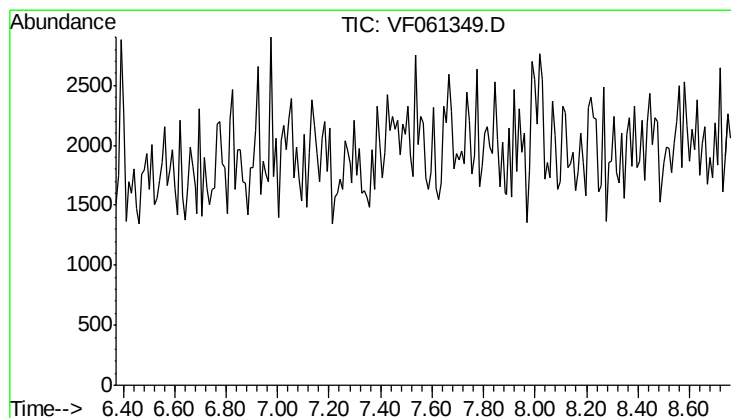
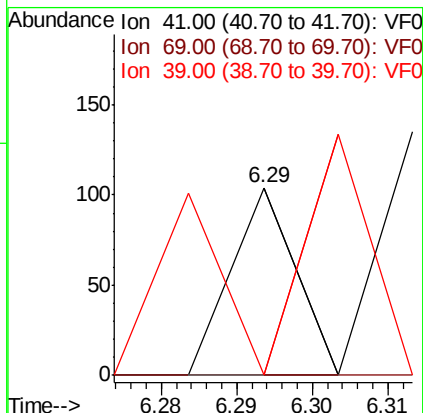
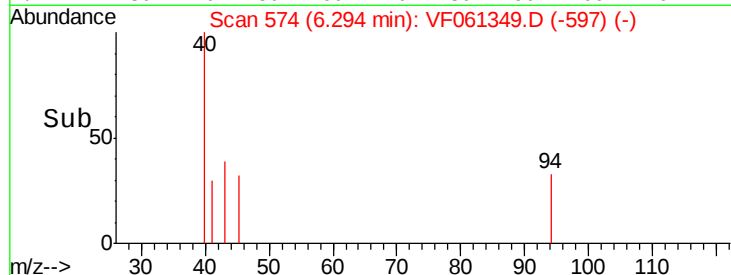
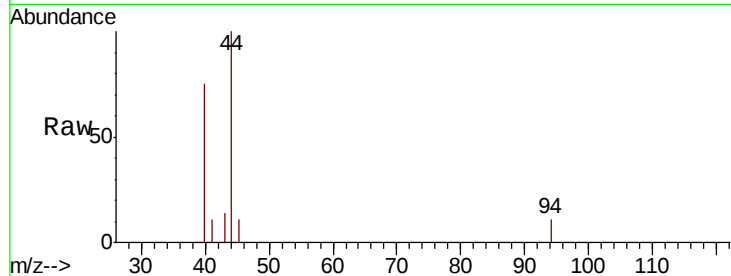
RT: 6.29 min Scan# 574

Delta R.T. -0.43 min

Lab File: VF061349.D

Acq: 10 Jan 2019 17:42

Tgt Ion:	41	Resp:	62
Ion	Ratio	Lower	Upper
41	100		
69	0.0	51.5	77.3#
39	0.0	44.1	66.1#



#50

Toluene-d8

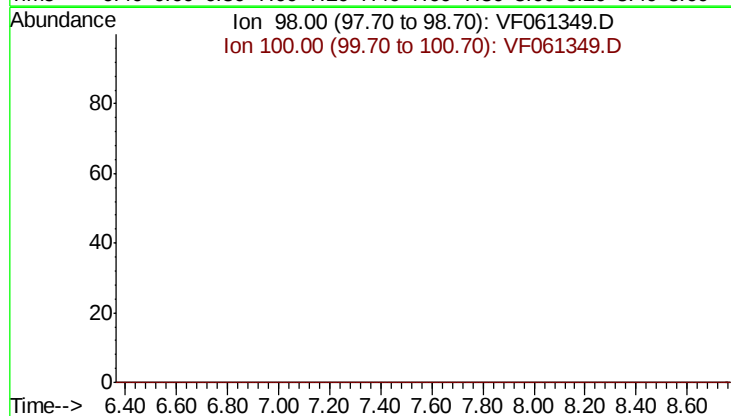
Concen: 0.000 ug/l

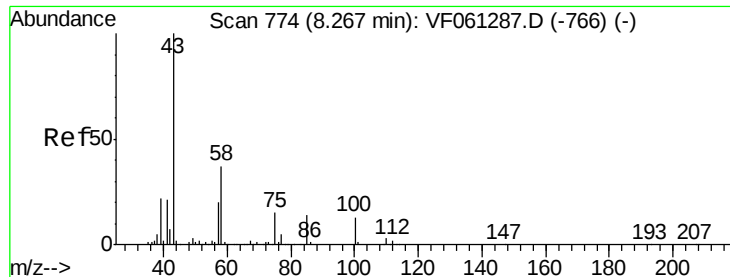
Expected RT: 7.57 min

Lab File: VF061349.D

Acq: 10 Jan 2019 17:42

Tgt Ion:	98
Sig	Exp Ratio
98	100
100	69.5





#51

4-Methyl-2-Pentanone

Concen: 1262.477 ug/l

RT: 7.76 min Scan# 723

Delta R.T. -0.50 min

Lab File: VF061349.D

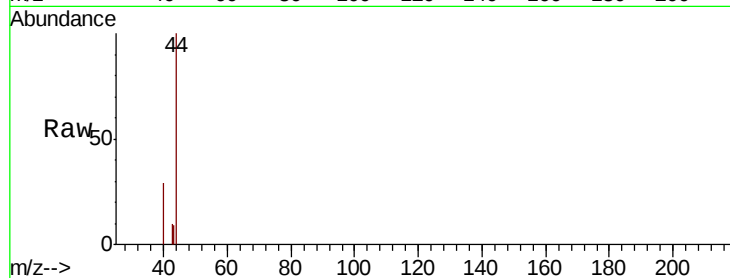
Acq: 10 Jan 2019 17:42

Tgt Ion: 43 Resp: 321

Ion Ratio Lower Upper

43 100

58 0.0 29.6 44.4#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

7.76

250

200

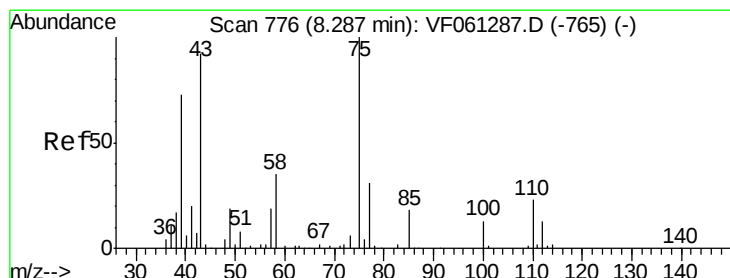
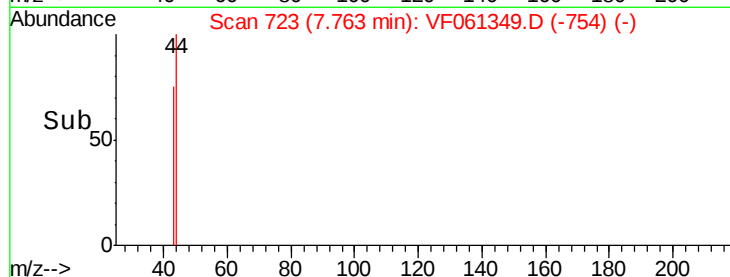
150

100

50

0

Time--> 7.72 7.74 7.76 7.78 7.80



#53

t-1,3-Dichloropropene

Concen: 176.411 ug/l

RT: 7.84 min Scan# 731

Delta R.T. -0.44 min

Lab File: VF061349.D

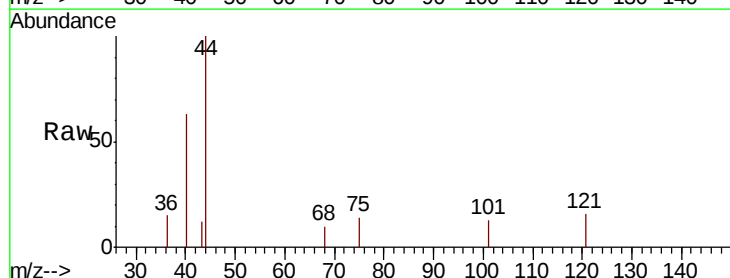
Acq: 10 Jan 2019 17:42

Tgt Ion: 75 Resp: 88

Ion Ratio Lower Upper

75 100

77 0.0 24.7 37.1#



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0

7.84

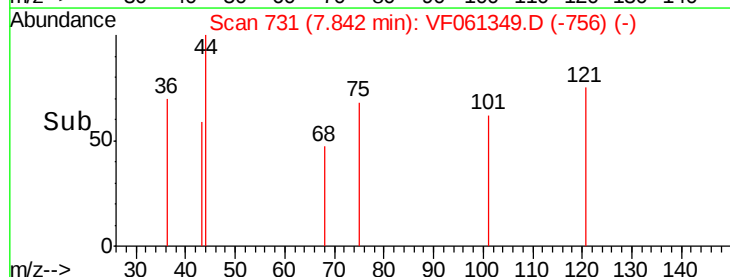
150

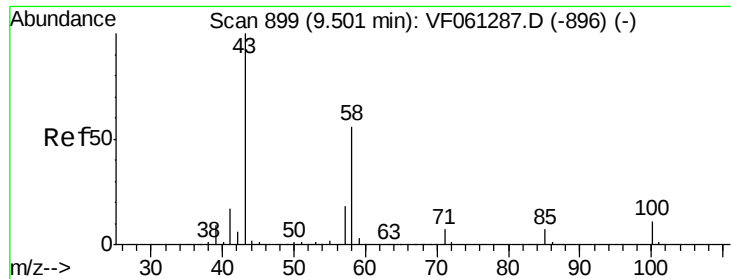
100

50

0

Time--> 7.82 7.84 7.86





#59

2-Hexanone

Concen: 427.464 ug/l

RT: 8.87 min Scan# 835

Delta R.T. -0.63 min

Lab File: VF061349.D

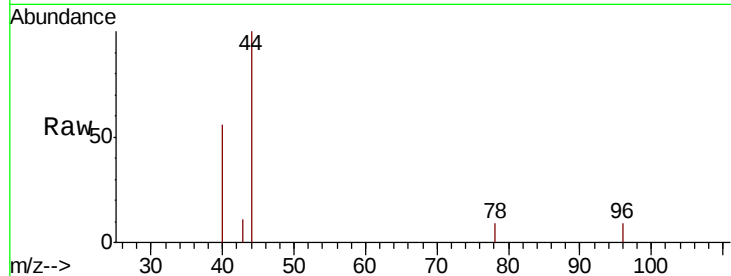
Acq: 10 Jan 2019 17:42

Tgt Ion: 43 Resp: 77

Ion Ratio Lower Upper

43 100

58 0.0 25.6 76.8#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

150

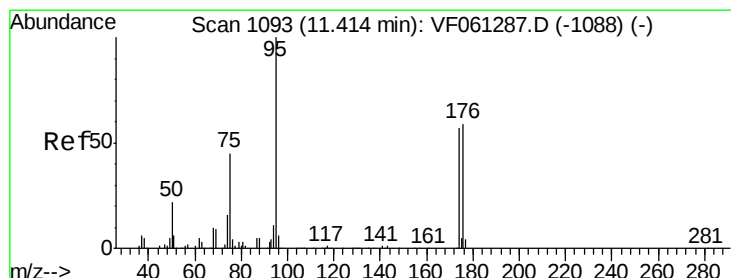
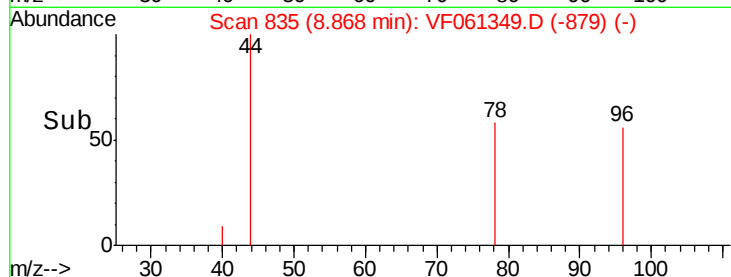
100

50

0

8.84 8.86 8.87 8.88 8.90

Time-->



#62

4-Bromofluorobenzene

Concen: 202.279 ug/l

RT: 10.67 min Scan# 1018

Delta R.T. -0.74 min

Lab File: VF061349.D

Acq: 10 Jan 2019 17:42

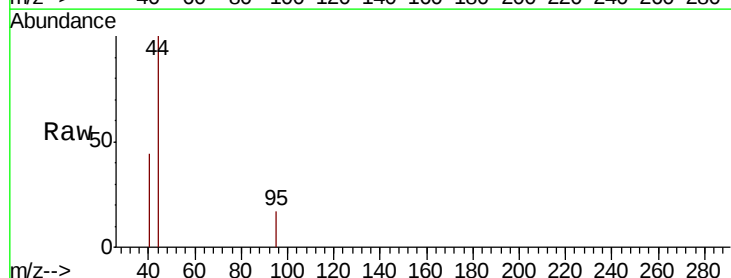
Tgt Ion: 95 Resp: 120

Ion Ratio Lower Upper

95 100

174 0.0 0.0 114.2

176 0.0 0.0 117.8



Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V

250

200

150

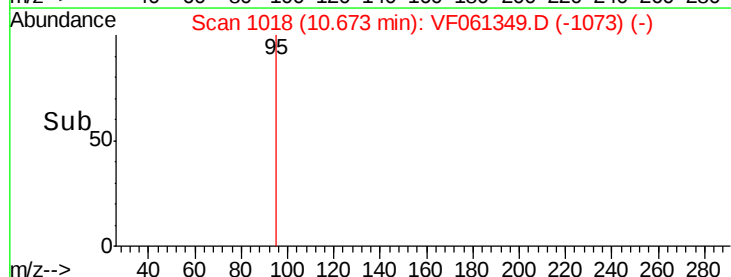
100

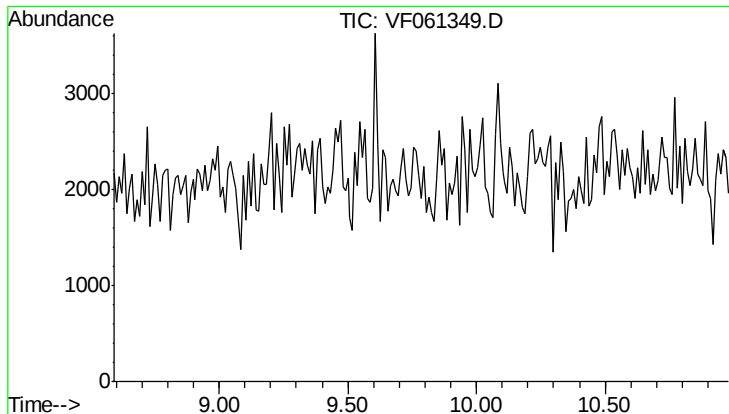
50

0

10.64 10.66 10.67 10.68 10.70

Time-->

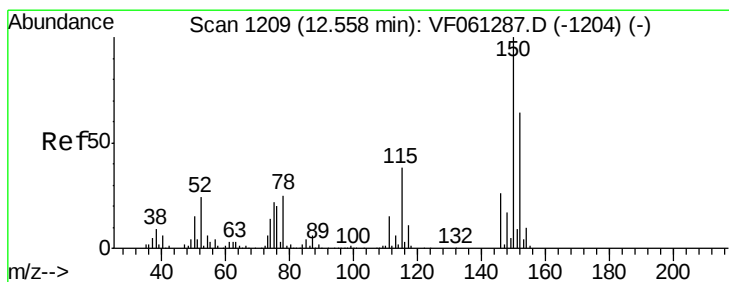
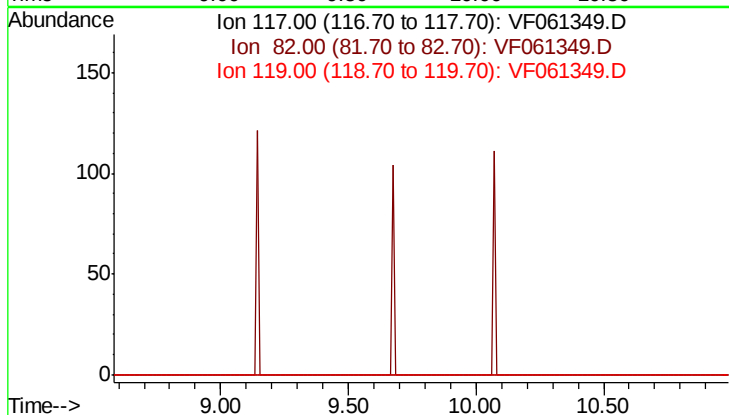




#63
 Chlorobenzene-d5
 Concen: 0.000 ug/l
 Expected RT: 9.79 min
 Lab File: VF061349.D
 Acq: 10 Jan 2019 17:42

Tgt Ion: 117

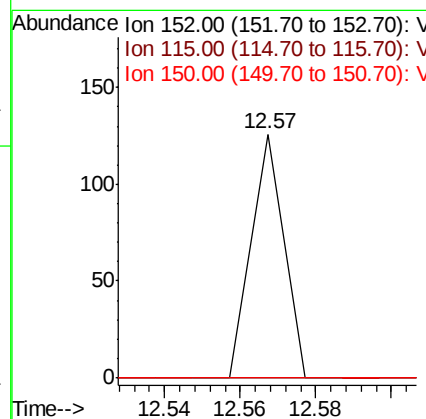
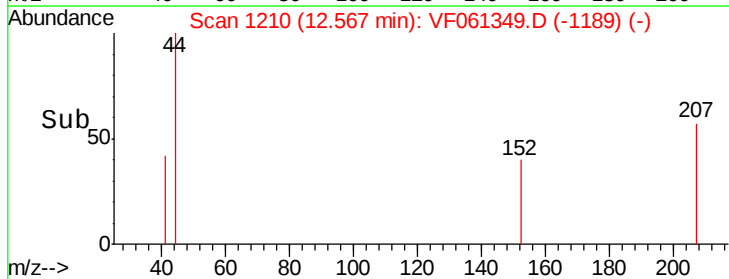
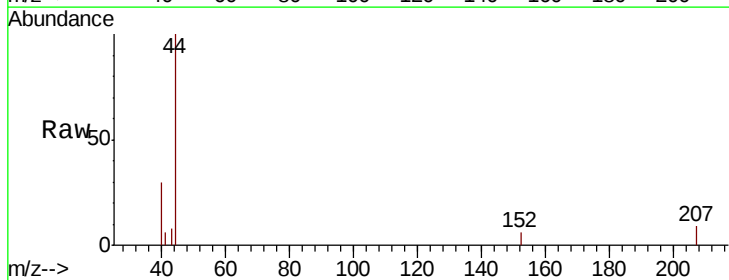
Sig	Exp Ratio
117	100
82	56.6
119	31.7

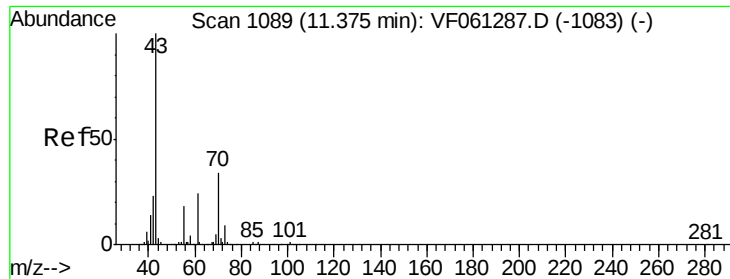


#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 12.57 min Scan# 1210
 Delta R.T. 0.01 min
 Lab File: VF061349.D
 Acq: 10 Jan 2019 17:42

Tgt Ion: 152 Resp: 75

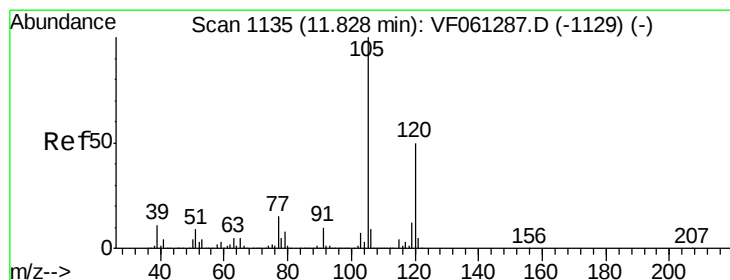
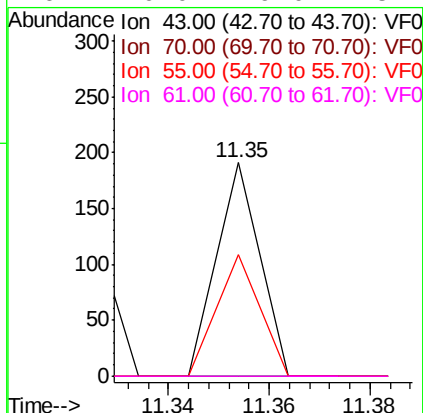
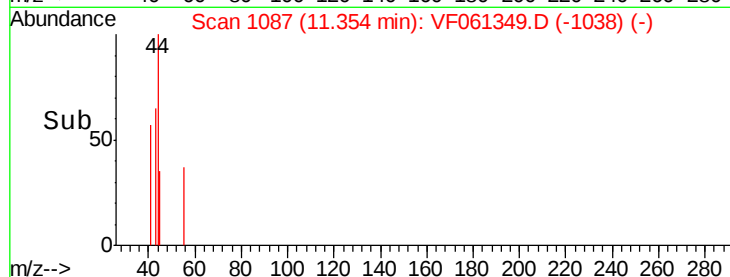
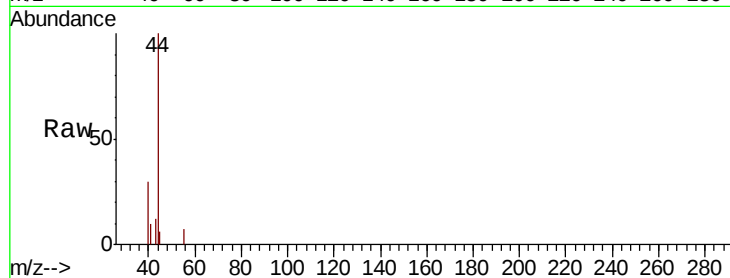
Ion	Ratio	Lower	Upper
152	100		
115	0.0	29.6	88.9#
150	0.0	0.0	315.4





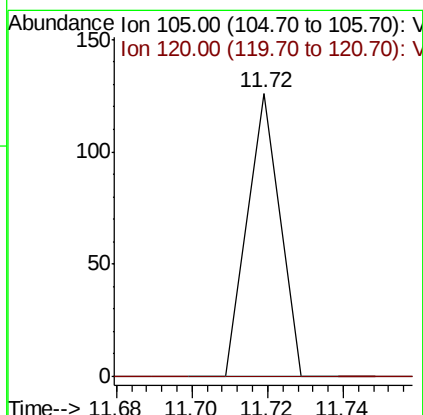
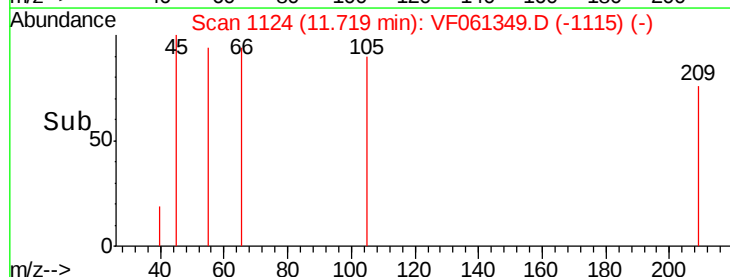
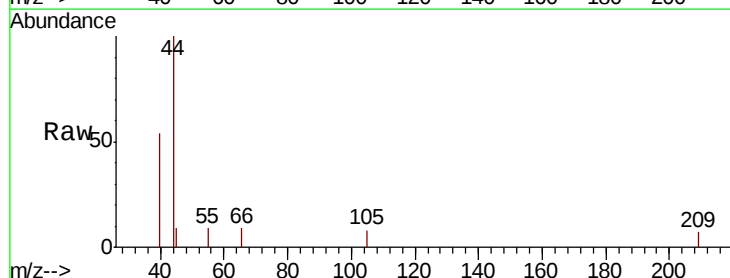
#74
N-amyI acetate
Concen: 75.323 ug/l
RT: 11.35 min Scan# 1087
Delta R.T. -0.02 min
Lab File: VF061349.D
Acq: 10 Jan 2019 17:42

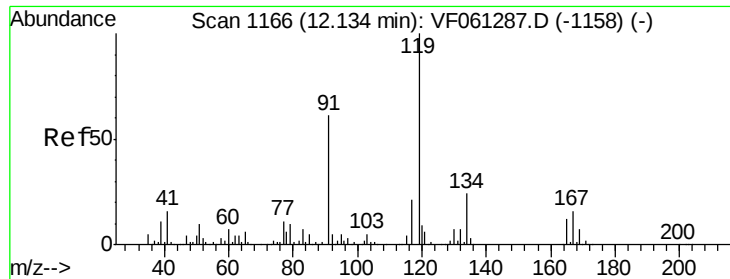
Tgt Ion:	43	Resp:	113
Ion	Ratio	Lower	Upper
43	100		
70	0.0	27.4	41.0#
55	57.1	14.7	22.1#
61	0.0	19.0	28.4#



#80
1,3,5-Trimethylbenzene
Concen: 14.282 ug/l
RT: 11.72 min Scan# 1124
Delta R.T. -0.11 min
Lab File: VF061349.D
Acq: 10 Jan 2019 17:42

Tgt Ion:	105	Resp:	75
Ion	Ratio	Lower	Upper
105	100		
120	0.0	25.2	75.6#





#83

tert-Butylbenzene

Concen: 11.850 ug/l

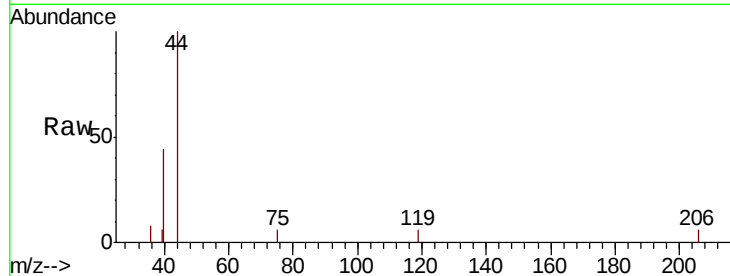
RT: 12.15 min Scan# 1168

Delta R.T. 0.02 min

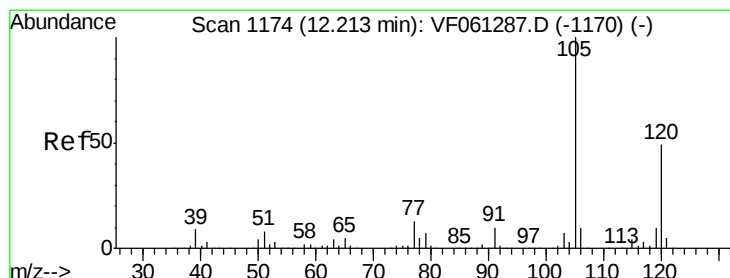
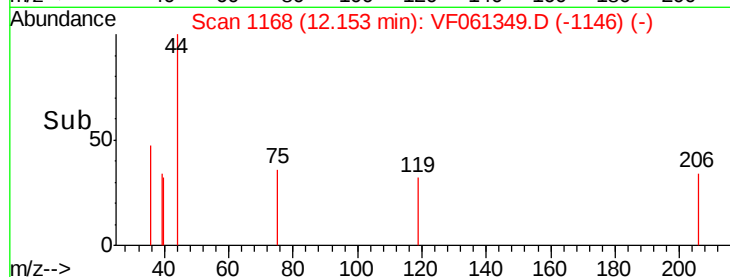
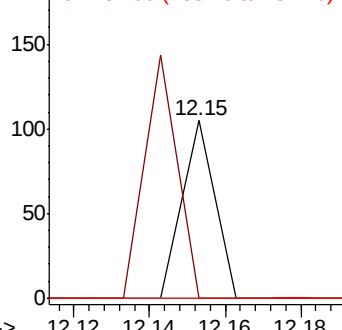
Lab File: VF061349.D

Acq: 10 Jan 2019 17:42

Tgt Ion:	119	Resp:	62
Ion	Ratio	Lower	Upper
119	100		
91	0.0	30.8	92.4#
134	0.0	11.9	35.9#



Abundance Ion 119.00 (118.70 to 119.70): V
Ion 91.00 (90.70 to 91.70): VF0
Ion 134.00 (133.70 to 134.70): V



#84

1,2,4-Trimethylbenzene

Concen: 57.924 ug/l

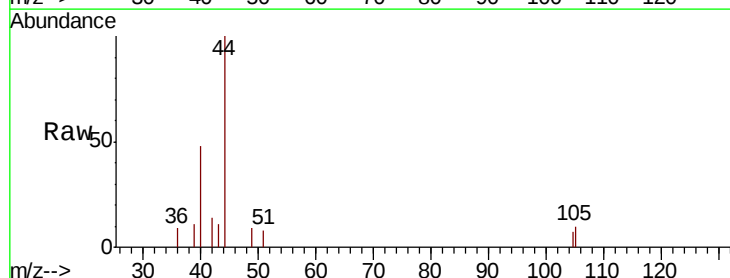
RT: 12.22 min Scan# 1175

Delta R.T. 0.01 min

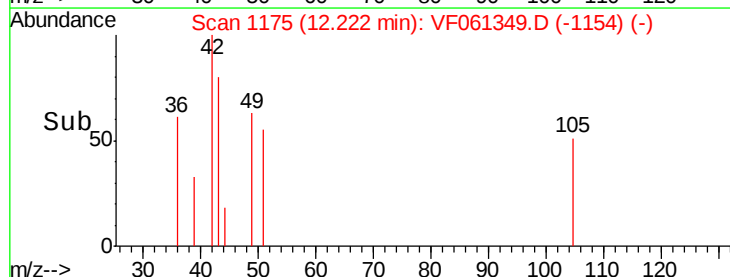
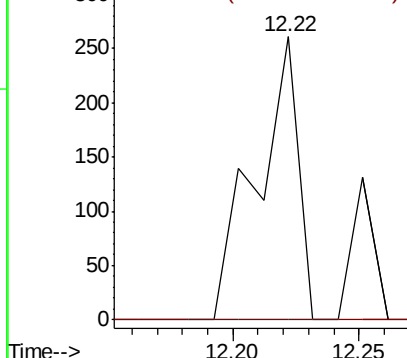
Lab File: VF061349.D

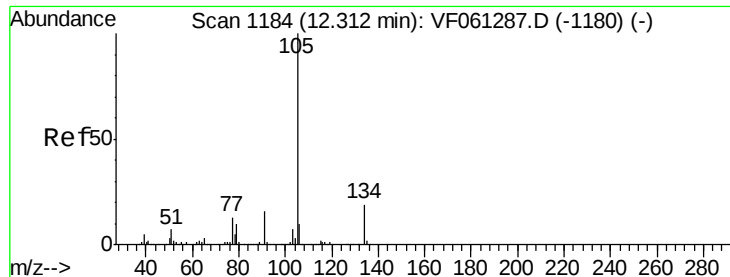
Acq: 10 Jan 2019 17:42

Tgt Ion:	105	Resp:	302
Ion	Ratio	Lower	Upper
105	100		
120	0.0	24.7	74.1#



Abundance Ion 105.00 (104.70 to 105.70): V
Ion 120.00 (119.70 to 120.70): V





#85

sec-Butylbenzene

Concen: 10.470 ug/l

RT: 12.25 min Scan# 1178

Delta R.T. -0.06 min

Lab File: VF061349.D

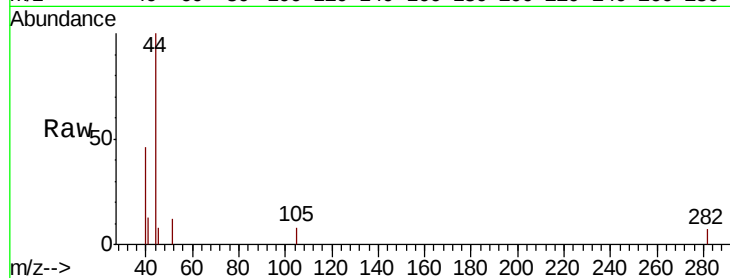
Acq: 10 Jan 2019 17:42

Tgt Ion:105 Resp: 78

Ion Ratio Lower Upper

105 100

134 0.0 9.7 28.9#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

12.25

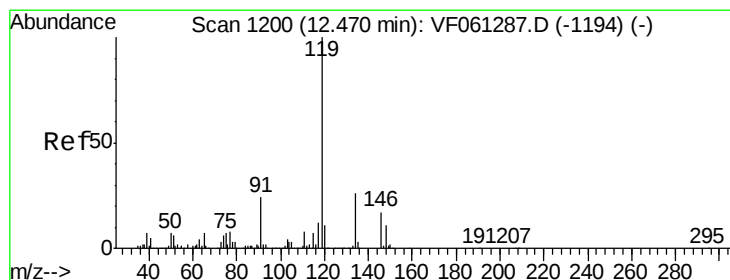
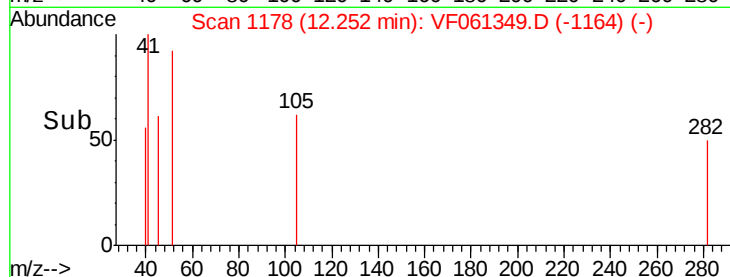
100

50

0

12.24 12.26 12.28

Time-->



#86

p-Isopropyltoluene

Concen: 12.378 ug/l

RT: 12.37 min Scan# 1190

Delta R.T. -0.10 min

Lab File: VF061349.D

Acq: 10 Jan 2019 17:42

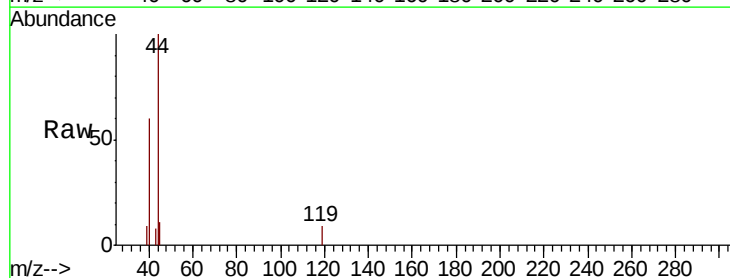
Tgt Ion:119 Resp: 75

Ion Ratio Lower Upper

119 100

134 0.0 13.0 39.0#

91 0.0 12.2 36.4#



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): VF0

12.37

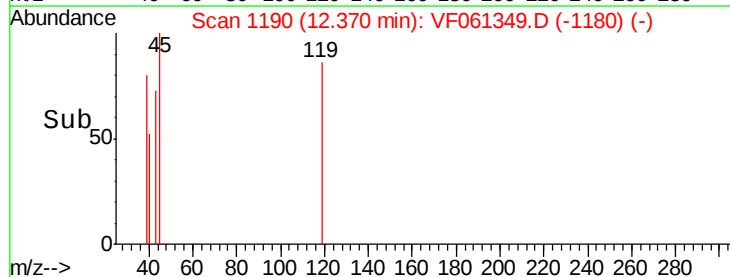
100

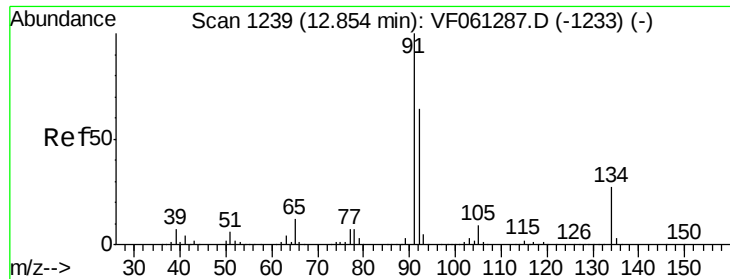
50

0

12.34 12.36 12.38 12.40

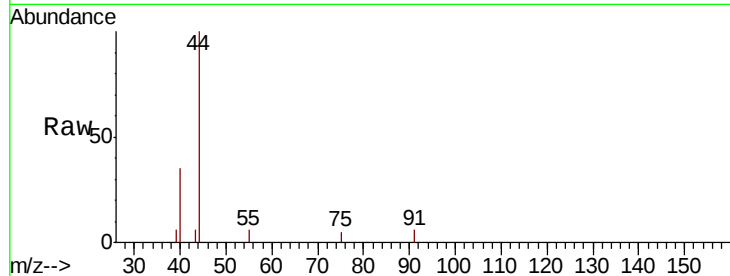
Time-->



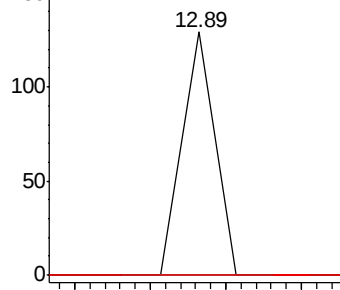


#89
n-Butylbenzene
Concen: 12.207 ug/l
RT: 12.89 min Scan# 1243
Delta R.T. 0.04 min
Lab File: VF061349.D
Acq: 10 Jan 2019 17:42

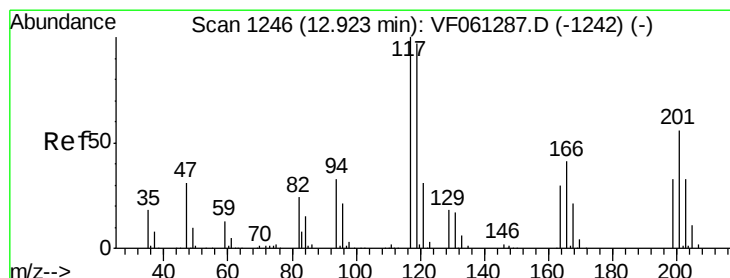
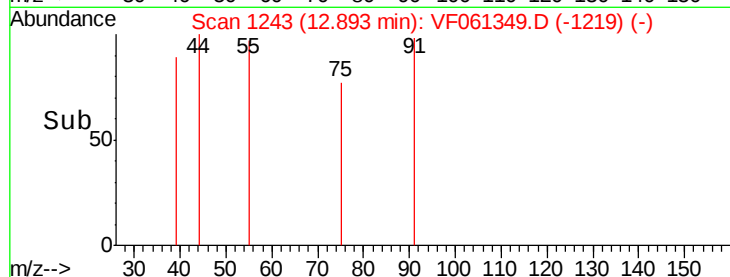
Tgt Ion: 91 Resp: 76
Ion Ratio Lower Upper
91 100
92 0.0 32.1 96.3#
134 0.0 13.4 40.1#



Abundance Ion 91.00 (90.70 to 91.70): VF0
Ion 92.00 (91.70 to 92.70): VF0
Ion 134.00 (133.70 to 134.70): V

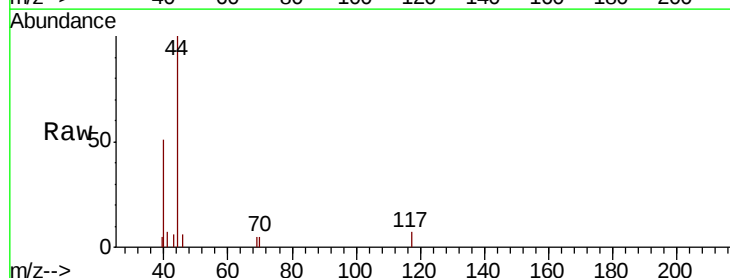


Time-->

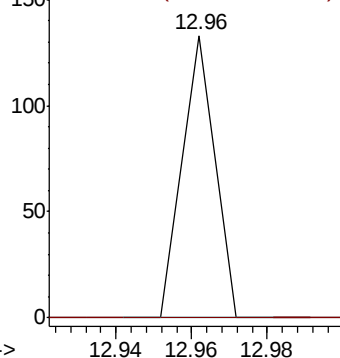


#90
Hexachloroethane
Concen: 56.997 ug/l
RT: 12.96 min Scan# 1250
Delta R.T. 0.04 min
Lab File: VF061349.D
Acq: 10 Jan 2019 17:42

Tgt Ion: 117 Resp: 79
Ion Ratio Lower Upper
117 100
201 0.0 27.9 83.7#



Abundance Ion 117.00 (116.70 to 117.70): V
Ion 201.00 (200.70 to 201.70): V



Time-->

