

Data Path : Z:\HPCHEM1\MSVOA_F\DATA\VF011019\
 Data File : VF061345.D
 Acq On : 10 Jan 2019 15:48
 Operator : VA/AP
 Sample : K1006-13RE
 Misc : 5.92g/5mL/MSVOA-F/SOIL
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jan 11 00:31:18 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	4.88	168	180012	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.61	114	320100	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.78	117	242941	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.55	152	98927	50.00	ug/l	0.00

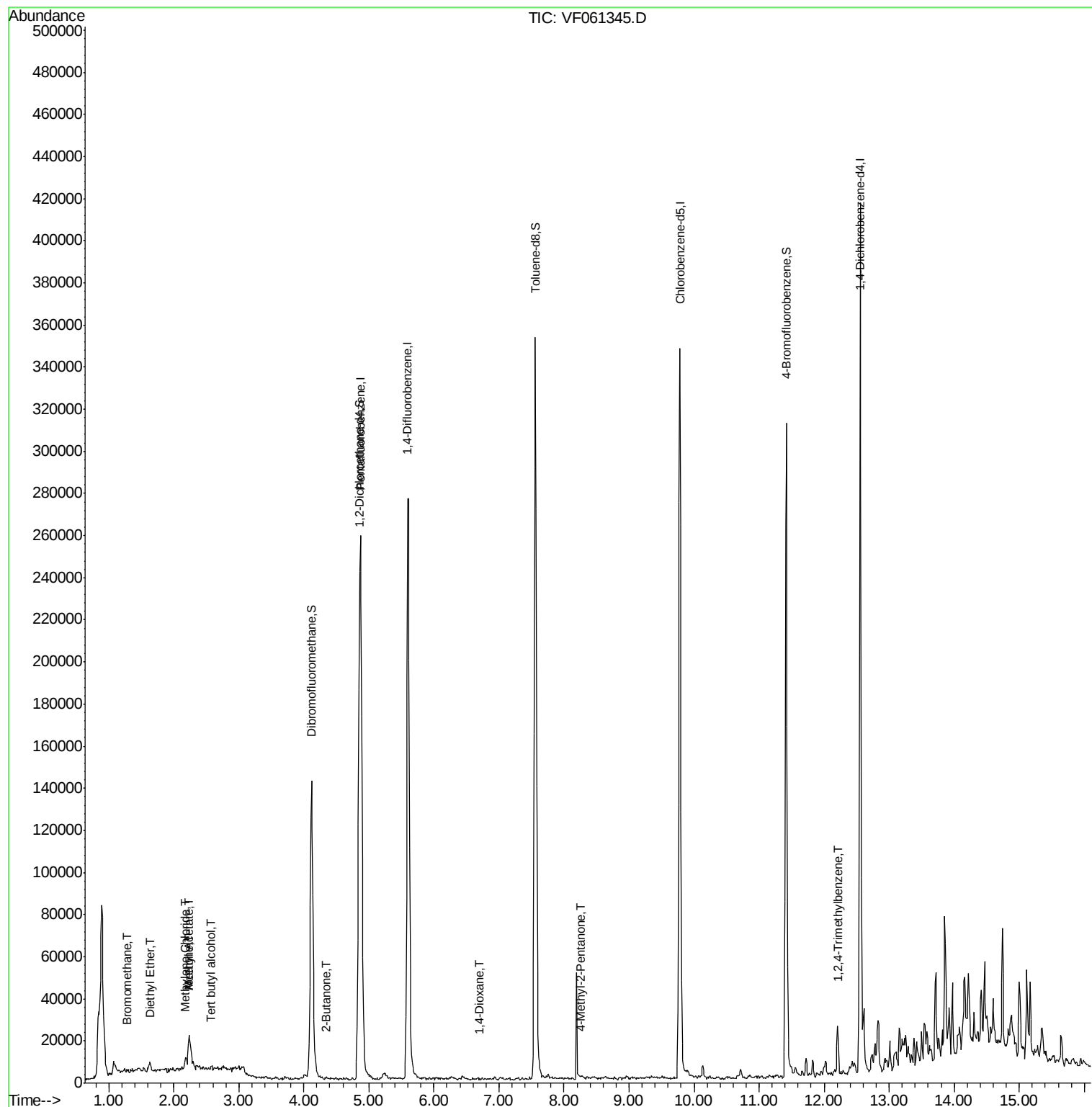
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.85	65	122844	61.31	ug/l	0.00
Spiked Amount	50.000		Recovery	=	122.62%	
35) Dibromofluoromethane	4.12	113	132808	54.22	ug/l	0.00
Spiked Amount	50.000		Recovery	=	108.44%	
50) Toluene-d8	7.56	98	292590	40.37	ug/l	0.00
Spiked Amount	50.000		Recovery	=	80.74%	
62) 4-Bromofluorobenzene	11.42	95	124238	39.25	ug/l	0.00
Spiked Amount	50.000		Recovery	=	78.50%	

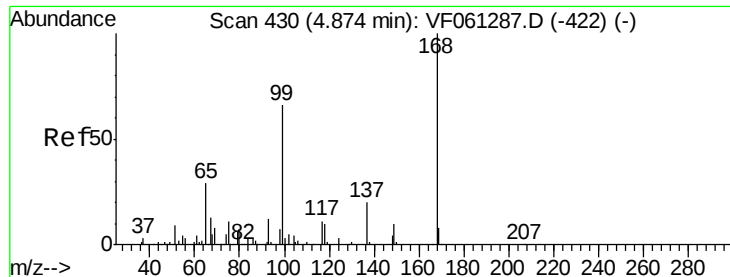
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.28	94	373	3.067	ug/l #	6
8) Diethyl Ether	1.62	74	1233	1.874	ug/l	89
11) Tert butyl alcohol	2.56	59	144	1.795	ug/l #	58
13) Acrolein	2.13	56	255	Below Cal		85
16) Acetone	2.23	43	29666	63.648	ug/l #	87
18) Methyl Acetate	2.23	43	29666	32.350	ug/l #	65
20) Methylene Chloride	2.19	84	2930	1.486	ug/l #	93
25) 2-Butanone	4.35	43	863	1.150	ug/l #	56
49) 1,4-Dioxane	6.71	88	85	11.548	ug/l #	20
51) 4-Methyl-2-Pentanone	8.26	43	1381	1.018	ug/l #	76
84) 1,2,4-Trimethylbenzene	12.21	105	10263	1.492	ug/l	83

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.88 min Scan# 431

Delta R.T. 0.00 min

Lab File: VF061345.D

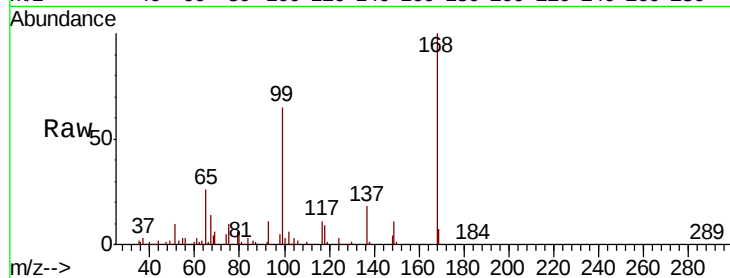
Acq: 10 Jan 2019 15:48

Tgt Ion: 168 Resp: 180012

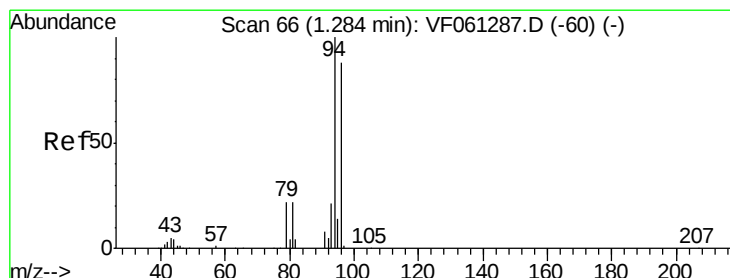
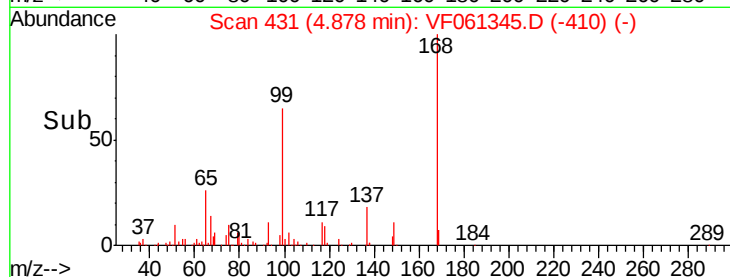
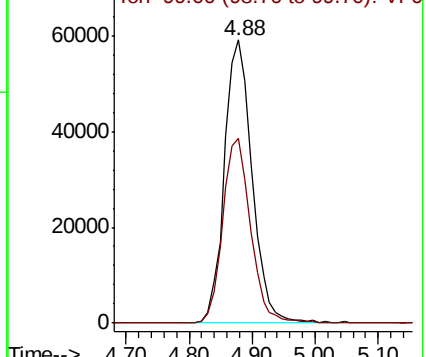
Ion Ratio Lower Upper

168 100

99 65.4 52.7 79.1



Abundance Ion 168.00 (167.70 to 168.70): VF0



#5

Bromomethane

Concen: 3.067 ug/l

RT: 1.28 min Scan# 66

Delta R.T. -0.01 min

Lab File: VF061345.D

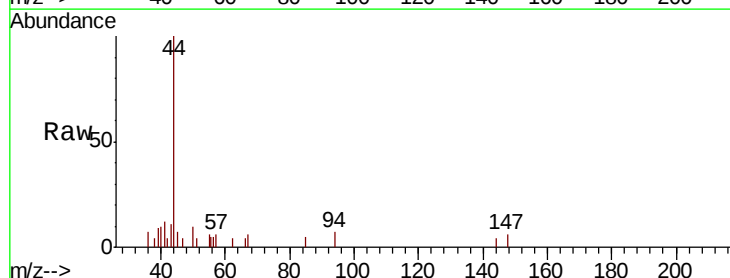
Acq: 10 Jan 2019 15:48

Tgt Ion: 94 Resp: 373

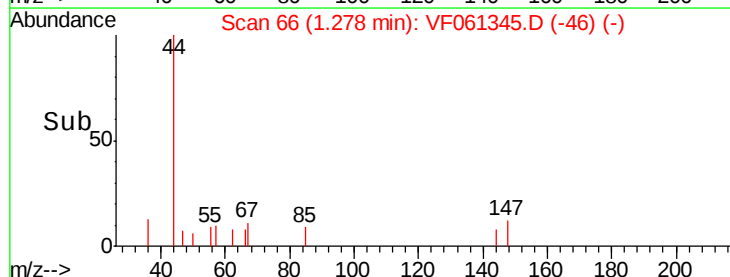
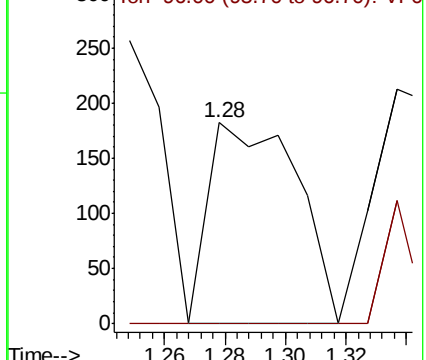
Ion Ratio Lower Upper

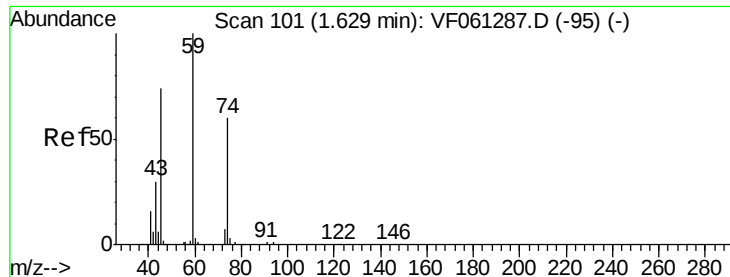
94 100

96 0.0 70.2 105.4#



Abundance Ion 94.00 (93.70 to 94.70): VF0





#8

Diethyl Ether

Concen: 1.874 ug/l

RT: 1.62 min Scan# 101

Delta R.T. -0.01 min

Lab File: VF061345.D

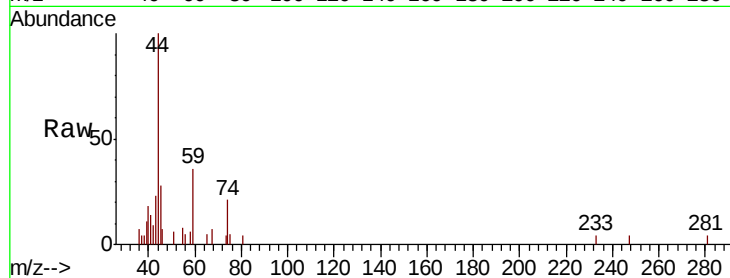
Acq: 10 Jan 2019 15:48

Tgt Ion: 74 Resp: 1233

Ion Ratio Lower Upper

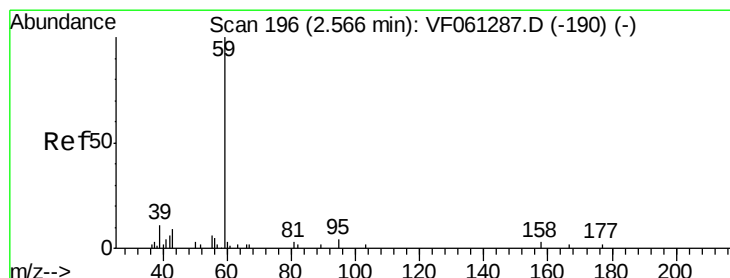
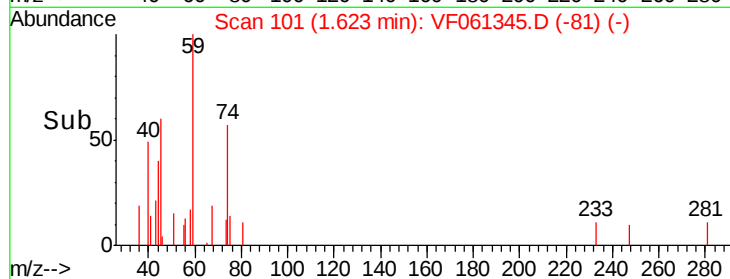
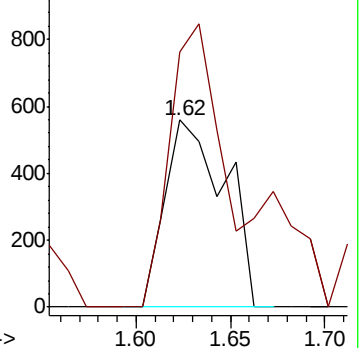
74 100

45 136.5 62.1 186.3



Abundance Ion 74.00 (73.70 to 74.70): VF0

Ion 45.00 (44.70 to 45.70): VF0



#11

Tert butyl alcohol

Concen: 1.795 ug/l

RT: 2.56 min Scan# 196

Delta R.T. -0.01 min

Lab File: VF061345.D

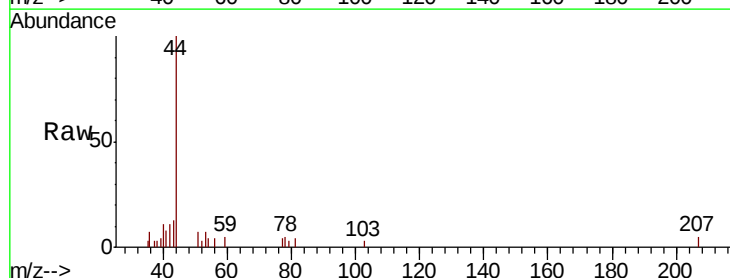
Acq: 10 Jan 2019 15:48

Tgt Ion: 59 Resp: 144

Ion Ratio Lower Upper

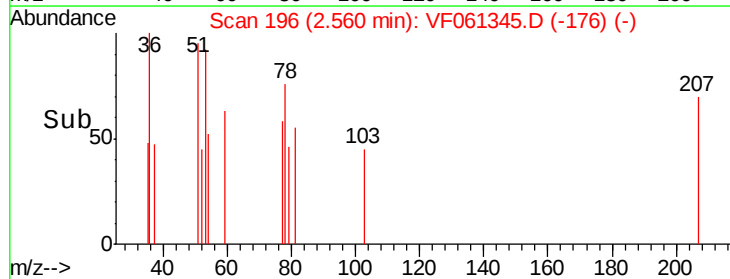
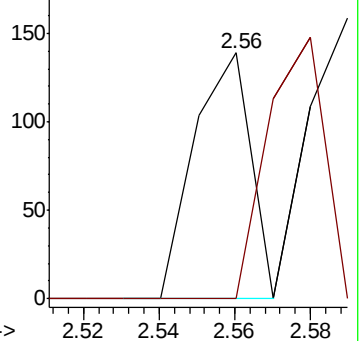
59 100

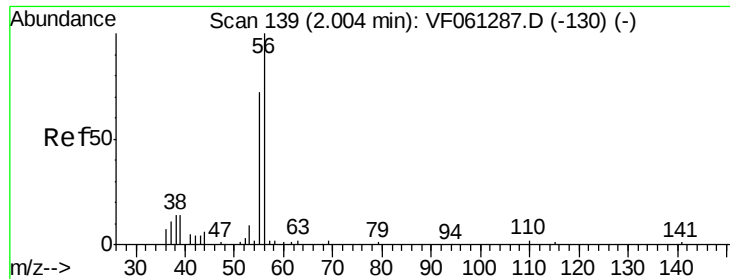
57 0.0 15.1 22.7#



Abundance Ion 59.00 (58.70 to 59.70): VF0

Ion 57.00 (56.70 to 57.70): VF0





#13

Acrolein

Concen: Below Cal

RT: 2.13 min Scan# 152

Delta R.T. 0.12 min

Lab File: VF061345.D

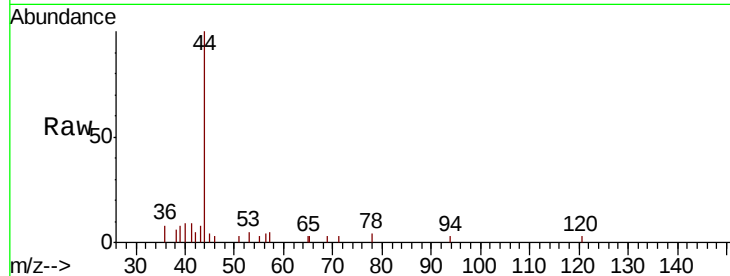
Acq: 10 Jan 2019 15:48

Tgt Ion: 56 Resp: 255

Ion Ratio Lower Upper

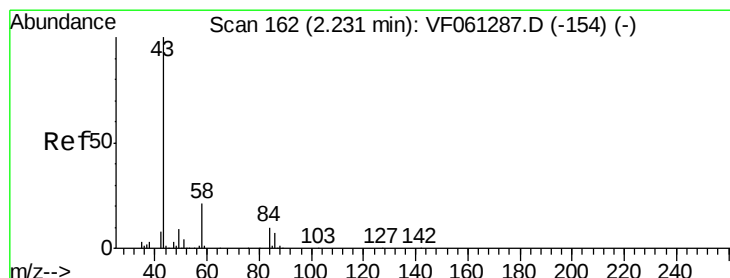
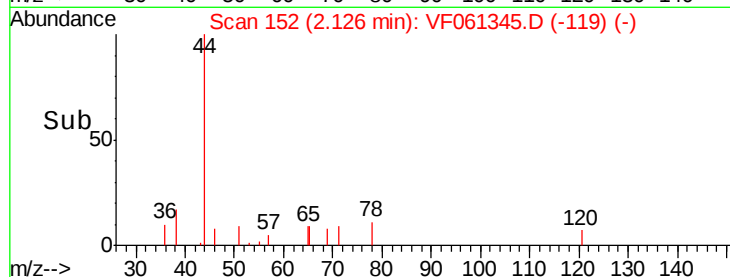
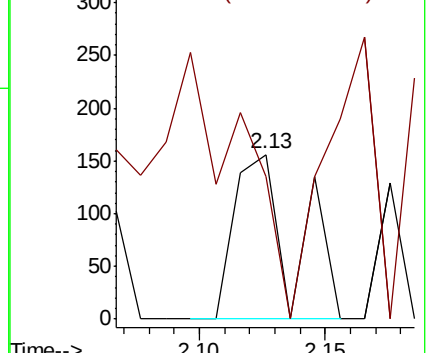
56 100

55 86.5 59.4 89.0



Abundance Ion 56.00 (55.70 to 56.70): VF0

Ion 55.00 (54.70 to 55.70): VF0



#16

Acetone

Concen: 63.648 ug/l

RT: 2.23 min Scan# 163

Delta R.T. 0.00 min

Lab File: VF061345.D

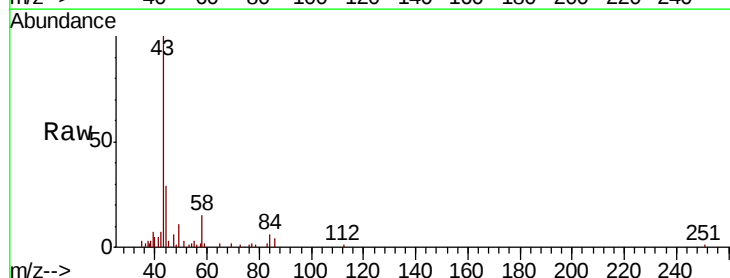
Acq: 10 Jan 2019 15:48

Tgt Ion: 43 Resp: 29666

Ion Ratio Lower Upper

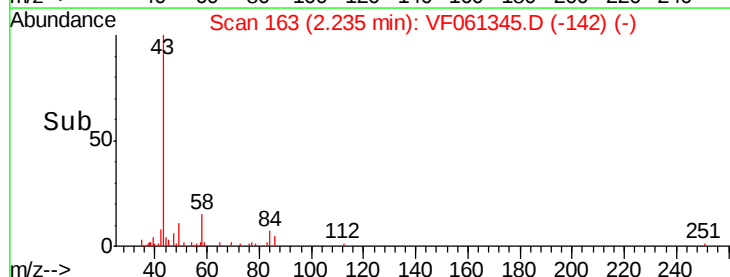
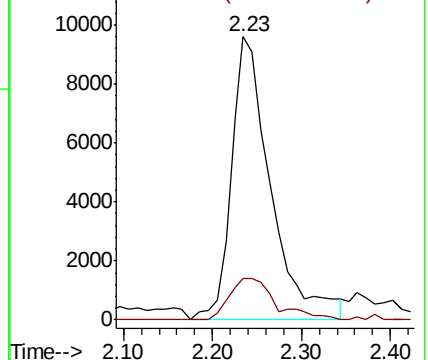
43 100

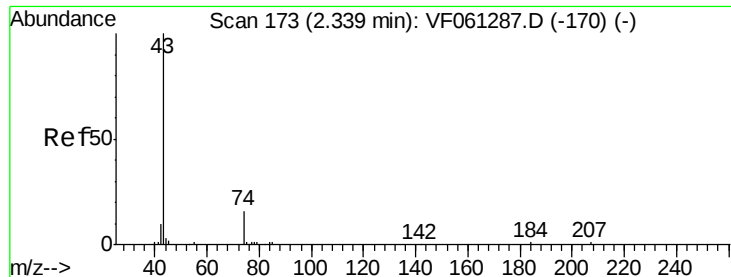
58 14.7 16.6 25.0#



Abundance Ion 43.00 (42.70 to 43.70): VF0

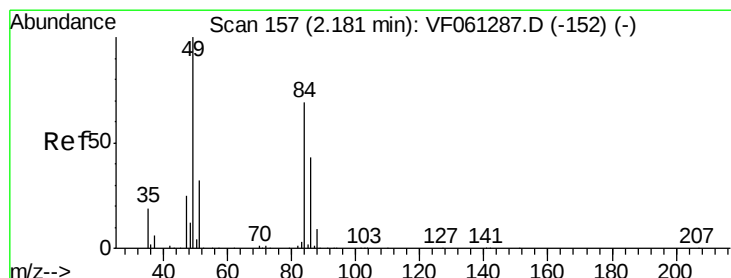
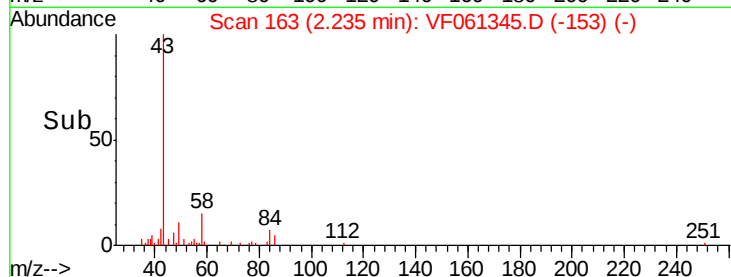
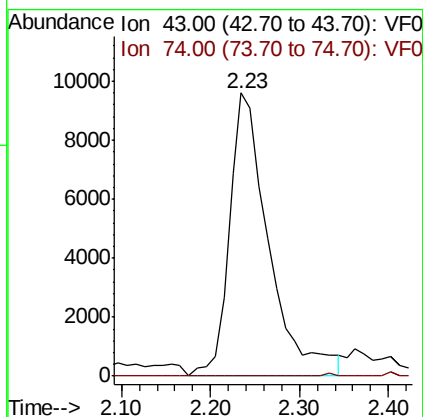
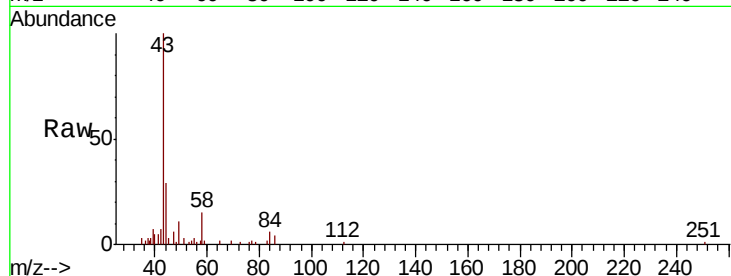
Ion 58.00 (57.70 to 58.70): VF0





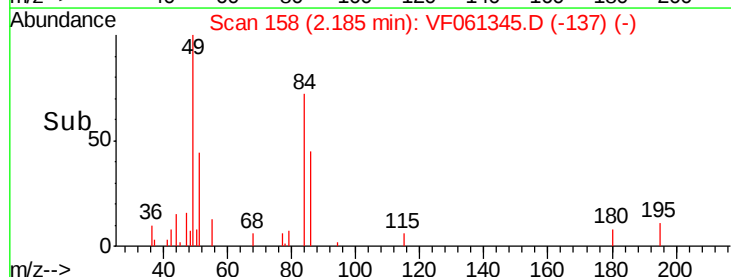
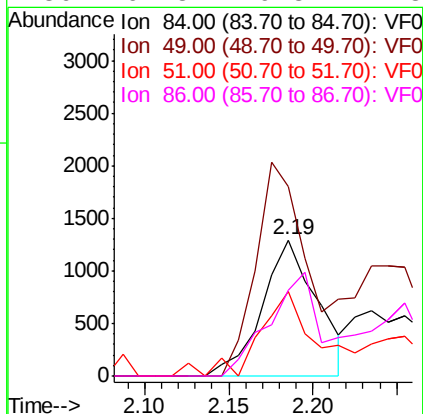
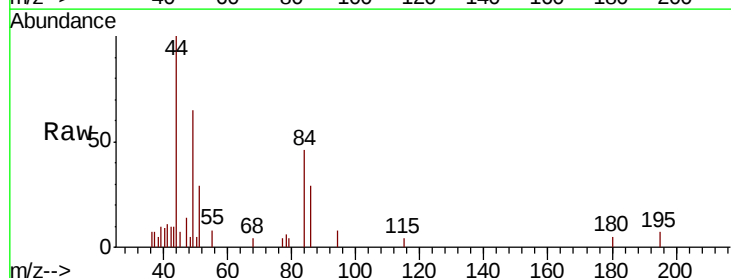
#18
Methyl Acetate
Concen: 32.350 ug/l
RT: 2.23 min Scan# 163
Delta R.T. -0.10 min
Lab File: VF061345.D
Acq: 10 Jan 2019 15:48

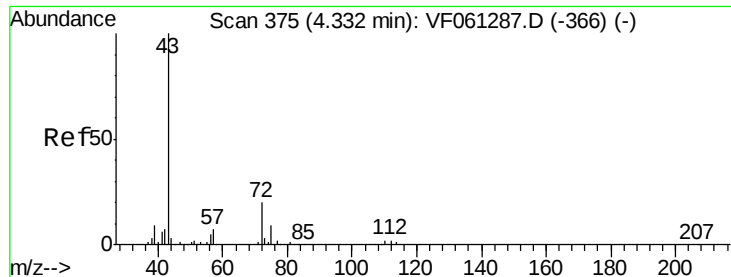
Tgt Ion: 43 Resp: 29666
Ion Ratio Lower Upper
43 100
74 0.0 11.6 17.4#



#20
Methylene Chloride
Concen: 1.486 ug/l
RT: 2.19 min Scan# 158
Delta R.T. 0.00 min
Lab File: VF061345.D
Acq: 10 Jan 2019 15:48

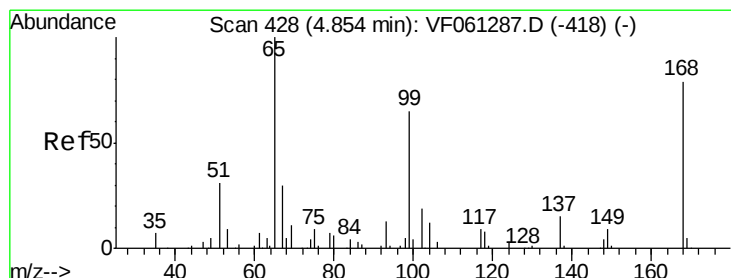
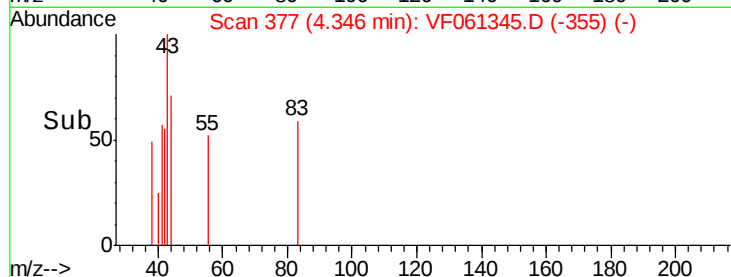
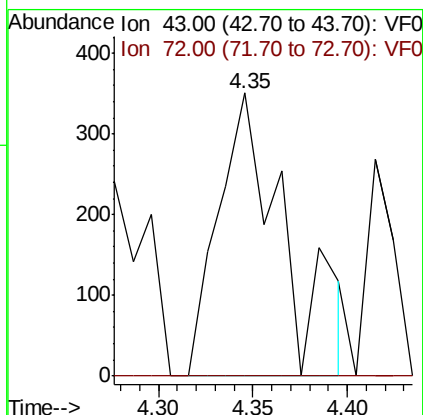
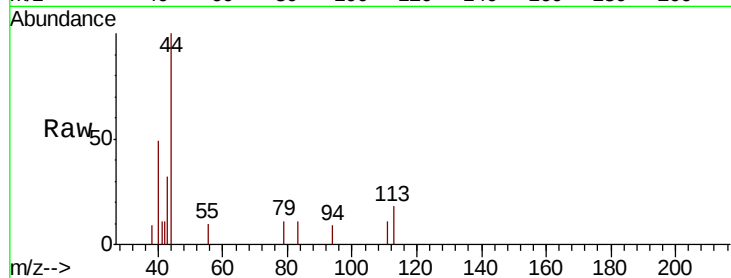
Tgt Ion: 84 Resp: 2930
Ion Ratio Lower Upper
84 100
49 139.2 116.6 175.0
51 61.9 37.7 56.5#
86 62.8 49.8 74.8





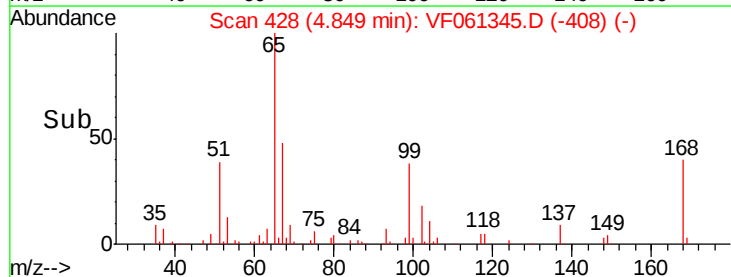
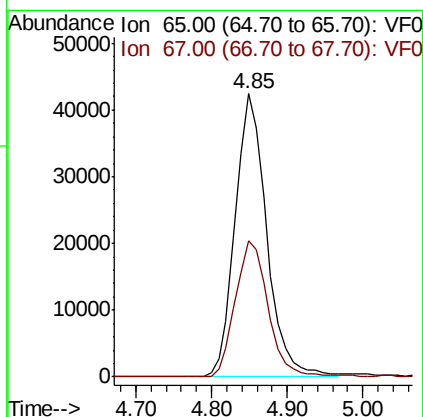
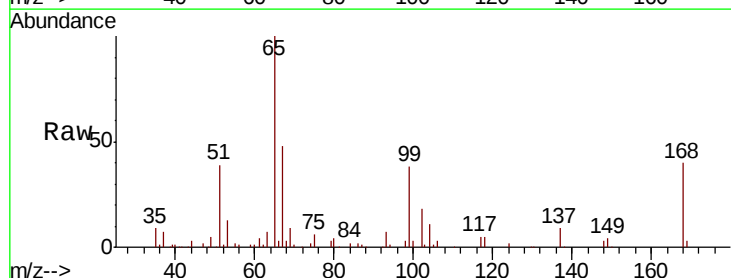
#25
 2-Butanone
 Concen: 1.150 ug/l
 RT: 4.35 min Scan# 377
 Delta R.T. 0.01 min
 Lab File: VF061345.D
 Acq: 10 Jan 2019 15:48

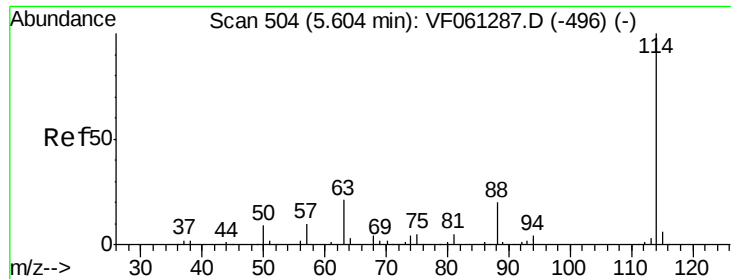
Tgt Ion: 43 Resp: 863
 Ion Ratio Lower Upper
 43 100
 72 0.0 16.5 24.7#



#33
 1,2-Dichloroethane-d4
 Concen: 61.310 ug/l
 RT: 4.85 min Scan# 428
 Delta R.T. -0.01 min
 Lab File: VF061345.D
 Acq: 10 Jan 2019 15:48

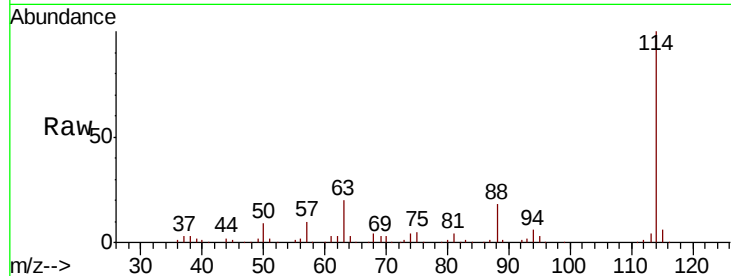
Tgt Ion: 65 Resp: 122844
 Ion Ratio Lower Upper
 65 100
 67 48.3 0.0 98.2



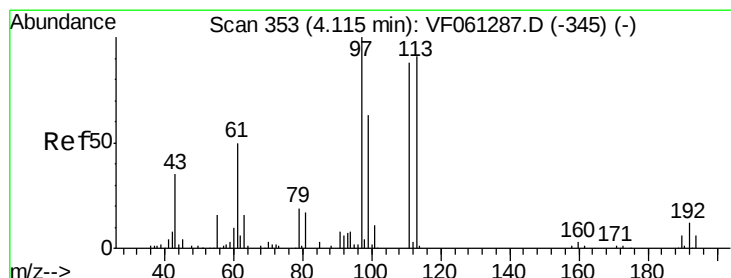
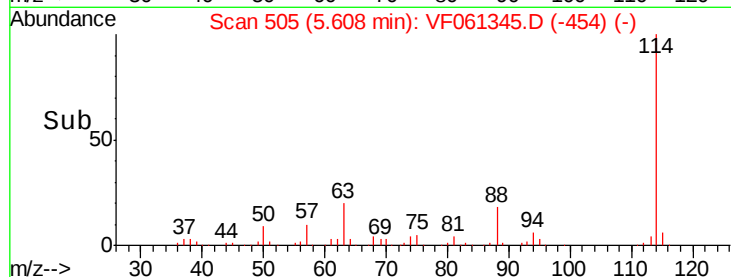
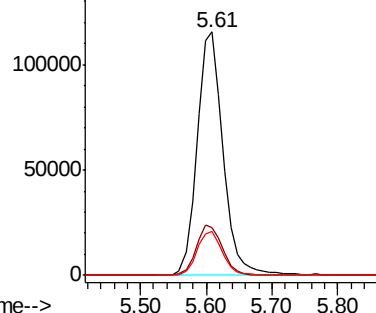


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 5.61 min Scan# 505
Delta R.T. 0.00 min
Lab File: VF061345.D
Acq: 10 Jan 2019 15:48

Tgt Ion:	114	Resp:	320100
Ion	Ratio	Lower	Upper
114	100		
63	19.6	0.0	42.8
88	18.0	0.0	40.0

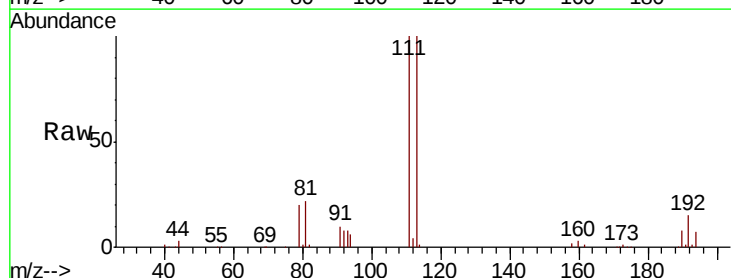


Abundance Ion 114.00 (113.70 to 114.70): V
Ion 63.00 (62.70 to 63.70): VF0
Ion 88.00 (87.70 to 88.70): VF0

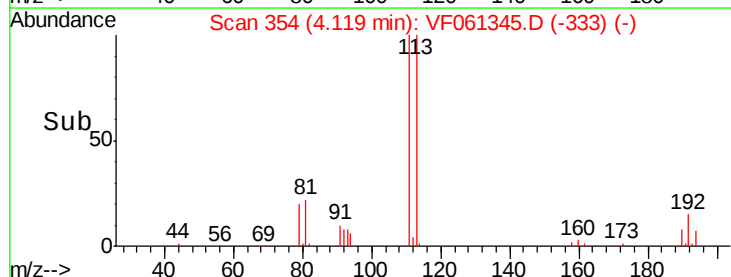
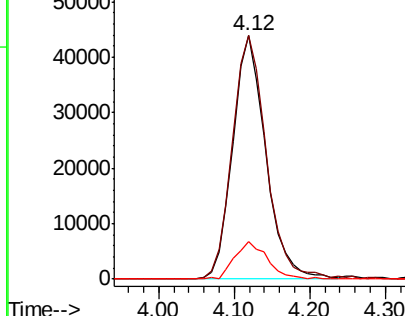


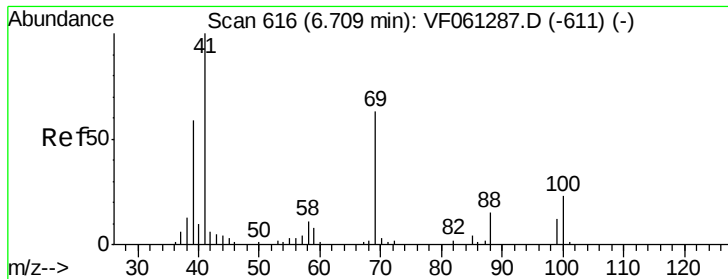
#35
Dibromofluoromethane
Concen: 54.223 ug/l
RT: 4.12 min Scan# 354
Delta R.T. 0.00 min
Lab File: VF061345.D
Acq: 10 Jan 2019 15:48

Tgt Ion:	113	Resp:	132808
Ion	Ratio	Lower	Upper
113	100		
111	100.1	78.0	117.0
192	15.2	10.6	16.0



Abundance Ion 113.00 (112.70 to 113.70): V
Ion 111.00 (110.70 to 111.70): V
Ion 192.00 (191.70 to 192.70): V





#49

1,4-Dioxane

Concen: 11.548 ug/l

RT: 6.71 min Scan# 617

Delta R.T. 0.00 min

Lab File: VF061345.D

Acq: 10 Jan 2019 15:48

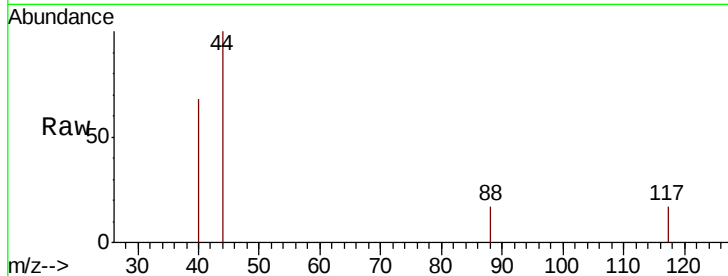
Tgt Ion: 88 Resp: 85

Ion Ratio Lower Upper

88 100

43 0.0 38.5 57.7#

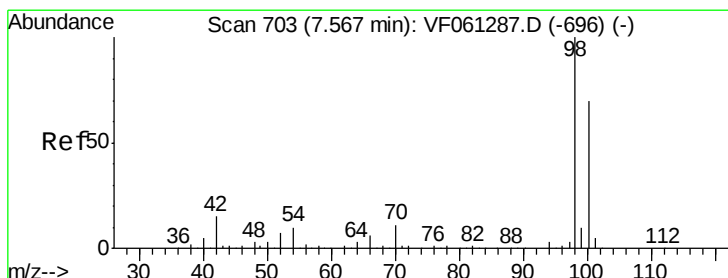
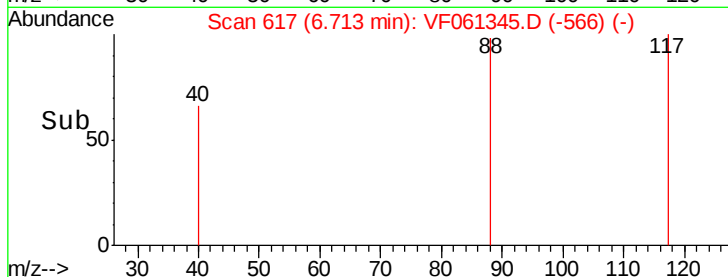
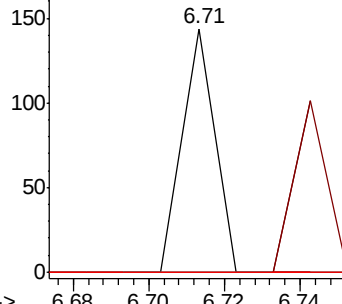
58 0.0 57.0 85.4#



Abundance Ion 88.00 (87.70 to 88.70): VF0

Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#50

Toluene-d8

Concen: 40.368 ug/l

RT: 7.56 min Scan# 703

Delta R.T. -0.01 min

Lab File: VF061345.D

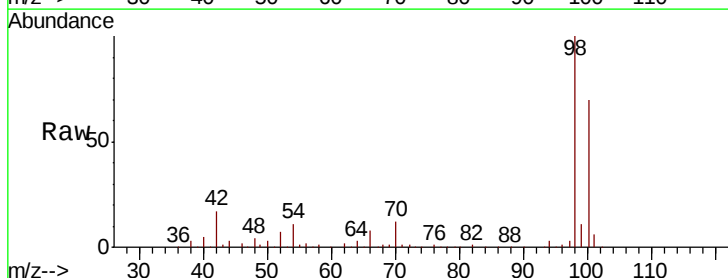
Acq: 10 Jan 2019 15:48

Tgt Ion: 98 Resp: 292590

Ion Ratio Lower Upper

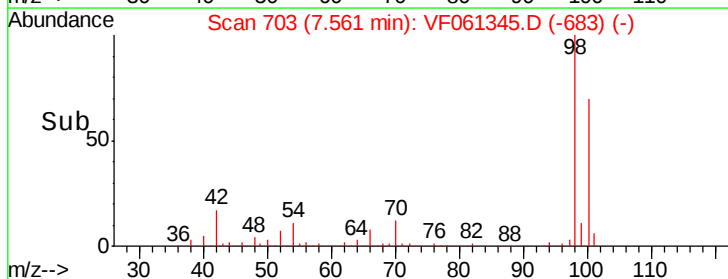
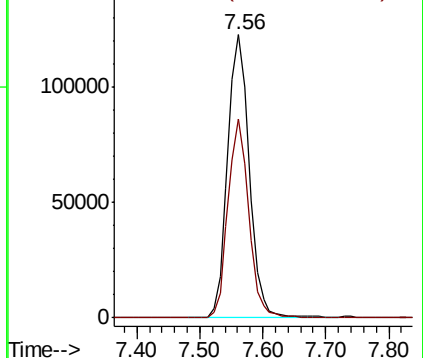
98 100

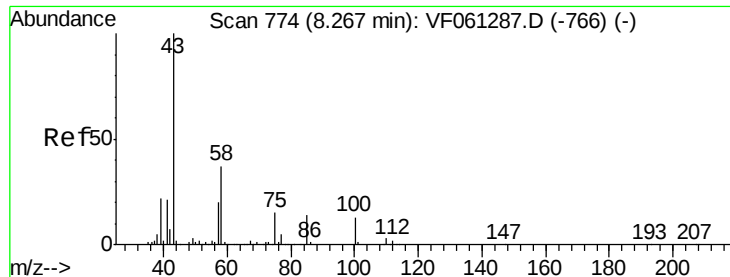
100 70.4 55.6 83.4



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0





#51

4-Methyl-2-Pentanone

Concen: 1.018 ug/l

RT: 8.26 min Scan# 774

Delta R.T. -0.01 min

Lab File: VF061345.D

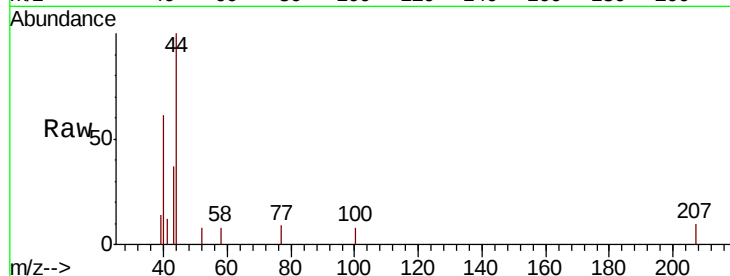
Acq: 10 Jan 2019 15:48

Tgt Ion: 43 Resp: 1381

Ion Ratio Lower Upper

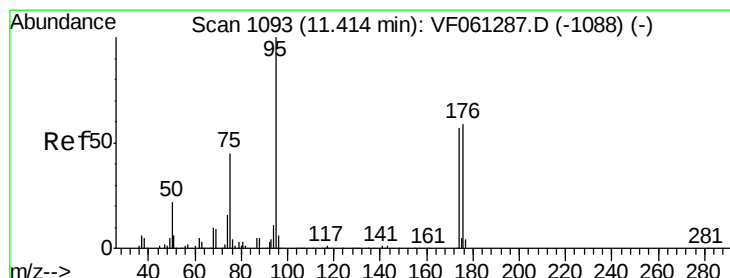
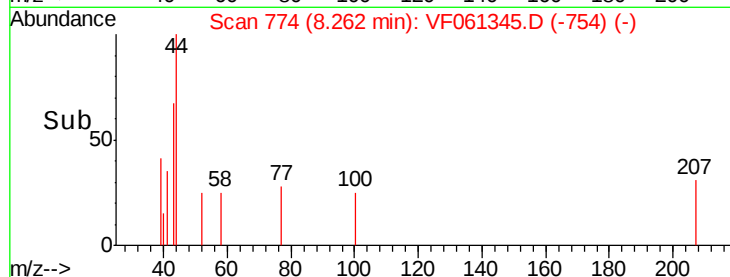
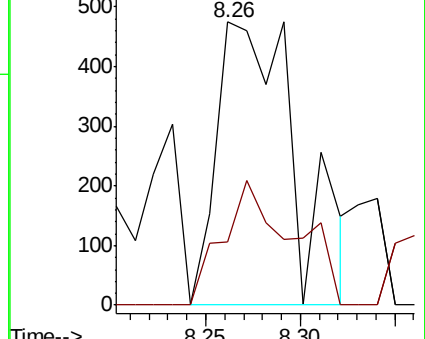
43 100

58 22.6 29.6 44.4#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#62

4-Bromofluorobenzene

Concen: 39.254 ug/l

RT: 11.42 min Scan# 1094

Delta R.T. 0.00 min

Lab File: VF061345.D

Acq: 10 Jan 2019 15:48

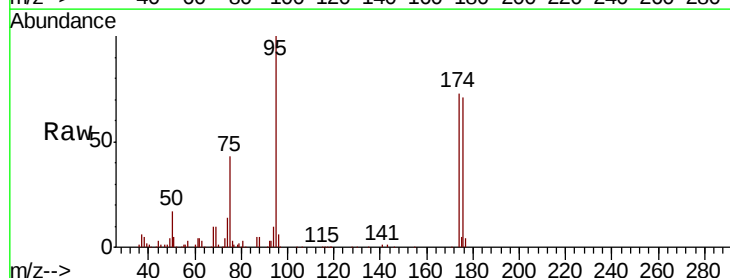
Tgt Ion: 95 Resp: 124238

Ion Ratio Lower Upper

95 100

174 72.8 0.0 114.2

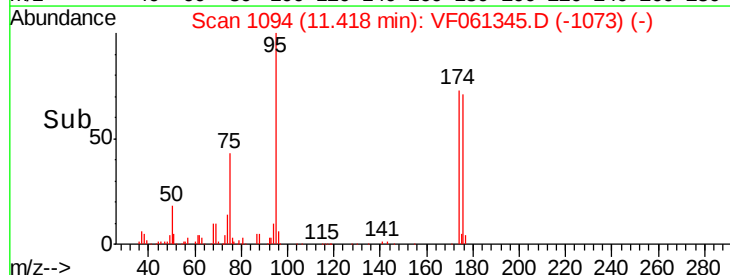
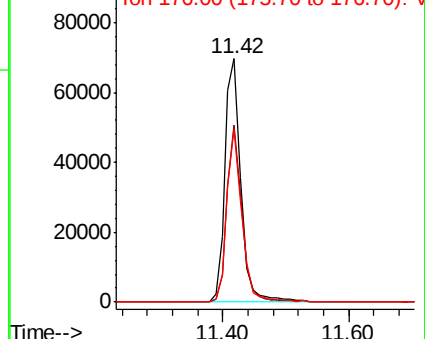
176 71.0 0.0 117.8

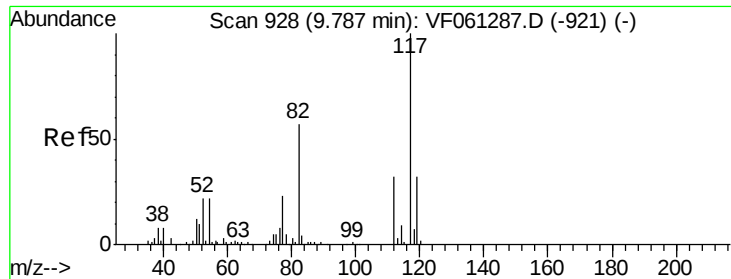


Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

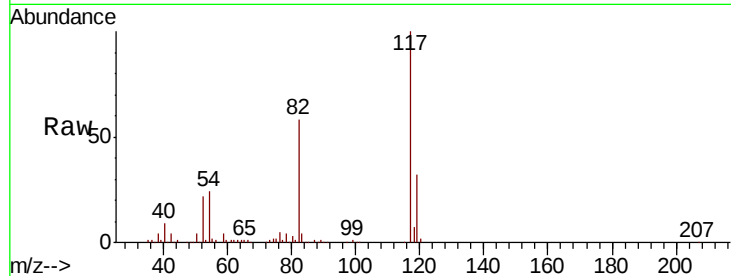
Ion 176.00 (175.70 to 176.70): V



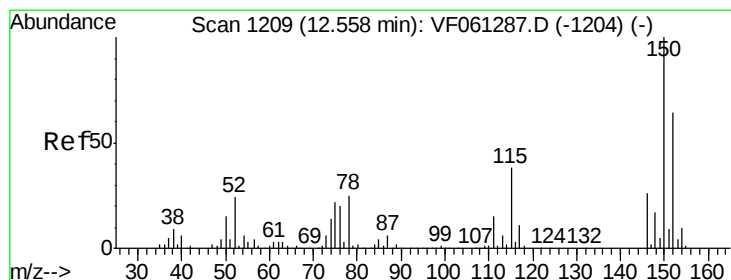
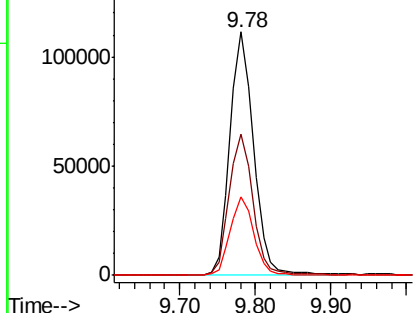
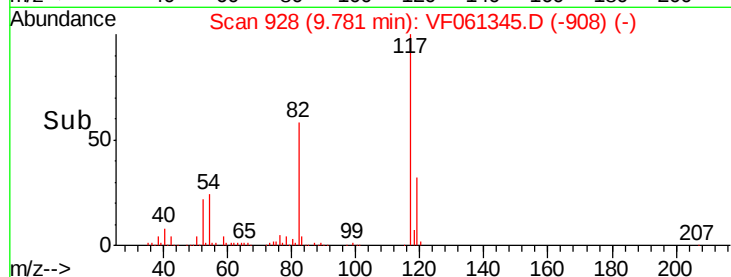


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.78 min Scan# 928
Delta R.T. -0.01 min
Lab File: VF061345.D
Acq: 10 Jan 2019 15:48

Tgt Ion	Ratio	Lower	Upper
117	100		
82	58.1	45.3	67.9
119	32.4	25.4	38.0

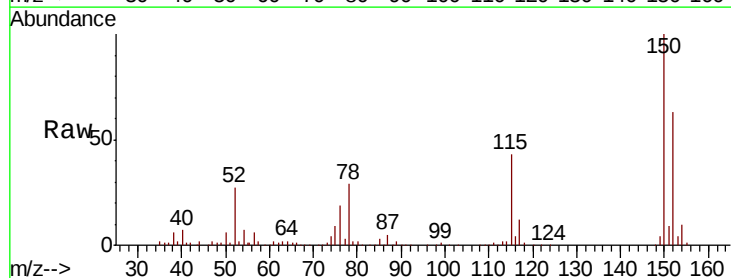


Abundance Ion 117.00 (116.70 to 117.70): V
Ion 82.00 (81.70 to 82.70): VF0
Ion 119.00 (118.70 to 119.70): V

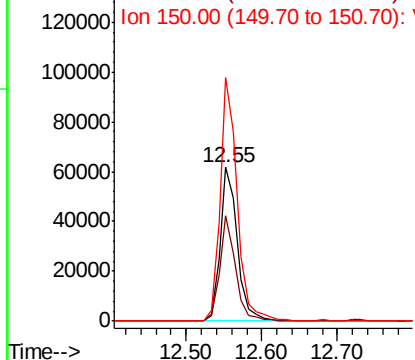
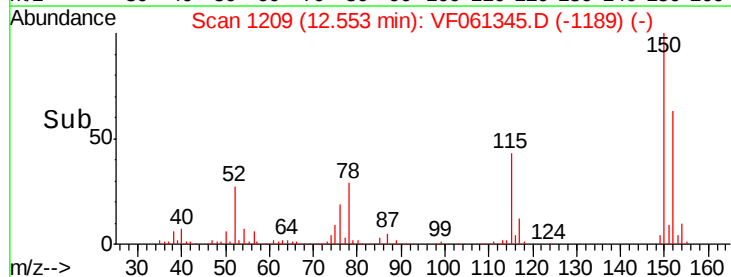


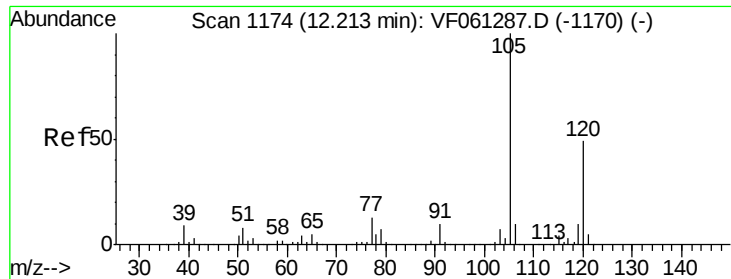
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.55 min Scan# 1209
Delta R.T. -0.01 min
Lab File: VF061345.D
Acq: 10 Jan 2019 15:48

Tgt Ion	Ratio	Lower	Upper
152	100		
115	68.5	29.6	88.9
150	158.3	0.0	315.4



Abundance Ion 152.00 (151.70 to 152.70): V
Ion 115.00 (114.70 to 115.70): V
Ion 150.00 (149.70 to 150.70): V





#84
 1,2,4-Trimethylbenzene
 Concen: 1.492 ug/l
 RT: 12.21 min Scan# 1174
 Delta R.T. -0.01 min
 Lab File: VF061345.D
 Acq: 10 Jan 2019 15:48

Tgt Ion:105 Resp: 10263
 Ion Ratio Lower Upper
 105 100
 120 37.7 24.7 74.1

