

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF032319\
 Data File : VF062121.D
 Acq On : 23 Mar 2019 17:05
 Operator : VA/AP
 Sample : K2045-09
 Misc : 6.29g/5mL/MSVOA-F/SOIL
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 WP022SB438-190318-(25-27)

Quant Time: Mar 25 01:29:24 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F032219S.M
 Quant Title : SW846 8260
 QLast Update : Sat Mar 23 01:16:37 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.88	168	221791	50.00	ug/l	-0.03
34) 1,4-Difluorobenzene	5.61	114	341829	50.00	ug/l	-0.02
63) Chlorobenzene-d5	9.78	117	266500	50.00	ug/l	-0.03
72) 1,4-Dichlorobenzene-d4	12.55	152	112247	50.00	ug/l	-0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.85	65	82813	50.20	ug/l	-0.03
Spiked Amount			Recovery	=	100.40%	
35) Dibromofluoromethane	4.12	113	111616	48.27	ug/l	-0.03
Spiked Amount			Recovery	=	96.54%	
50) Toluene-d8	7.56	98	277730	40.24	ug/l	-0.03
Spiked Amount			Recovery	=	80.48%	
62) 4-Bromofluorobenzene	11.41	95	103932	39.00	ug/l	-0.02
Spiked Amount			Recovery	=	78.00%	

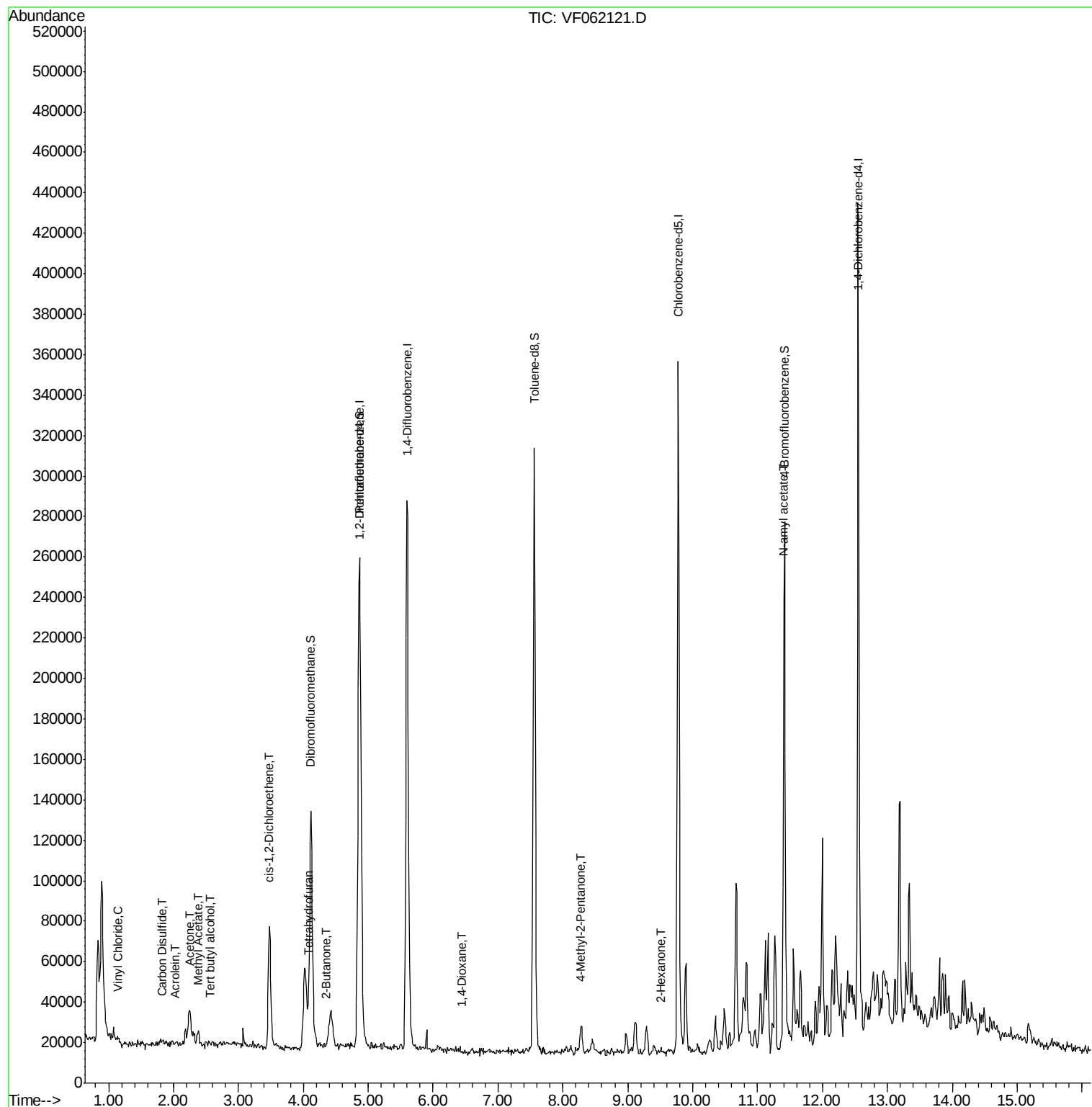
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Vinyl Chloride	1.14	62	5050	1.836	ug/l	92
11) Tert butyl alcohol	2.57	59	759	8.362	ug/l #	66
13) Acrolein	2.02	56	542	4.966	ug/l	96
16) Acetone	2.24	43	19626	56.526	ug/l	93
17) Carbon Disulfide	1.82	76	8569	1.314	ug/l #	54
18) Methyl Acetate	2.38	43	3695	4.461	ug/l #	56
20) Methylene Chloride	2.19	84	2826	Below Cal	#	79
25) 2-Butanone	4.35	43	2013	2.777	ug/l #	55
27) cis-1,2-Dichloroethene	3.48	96	39001	14.308	ug/l	92
29) Tetrahydrofuran	4.07	42	1064	3.376	ug/l #	38
49) 1,4-Dioxane	6.45	88	61	7.085	ug/l #	25
51) 4-Methyl-2-Pentanone	8.29	43	8291	7.188	ug/l #	40
59) 2-Hexanone	9.50	43	885	1.047	ug/l #	22
74) N-amyl acetate	11.40	43	3153	1.675	ug/l #	46

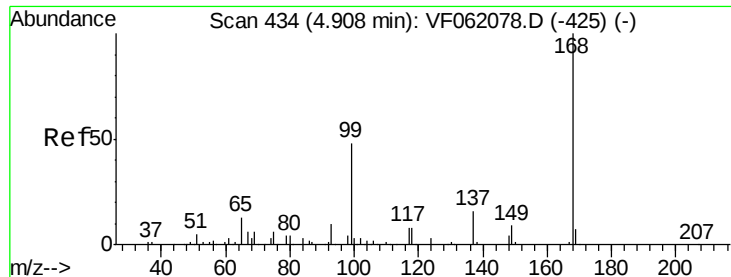
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.88 min Scan# 431

Delta R.T. -0.03 min

Lab File: VF062121.D

Acq: 23 Mar 2019 17:05

Instrument :

MSVOA_F

ClientSampleId :

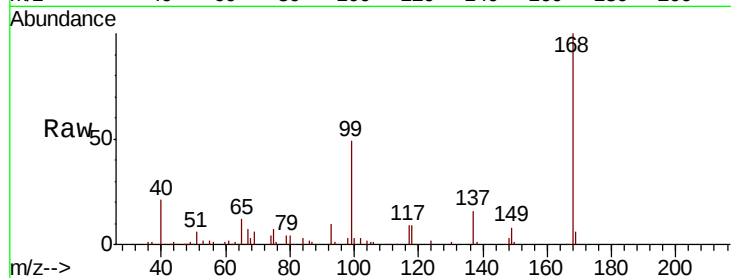
WP022SB438-190318-(25-27)

Tot Ion:168 Resp: 221791

Ion Ratio Lower Upper

168 100

99 49.3 38.2 57.4



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.88

80000

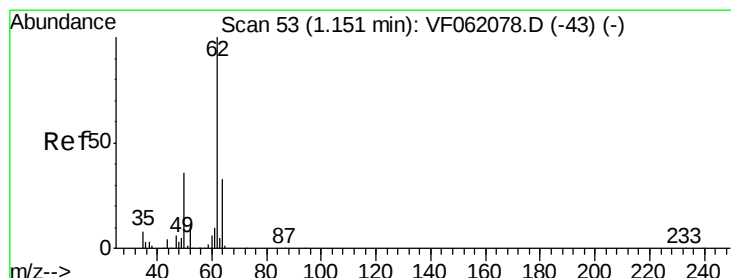
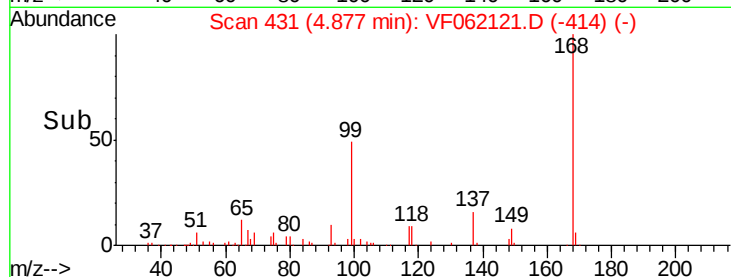
60000

40000

20000

0

Time-->



#4

Vinyl Chloride

Concen: 1.836 ug/l

RT: 1.14 min Scan# 52

Delta R.T. -0.01 min

Lab File: VF062121.D

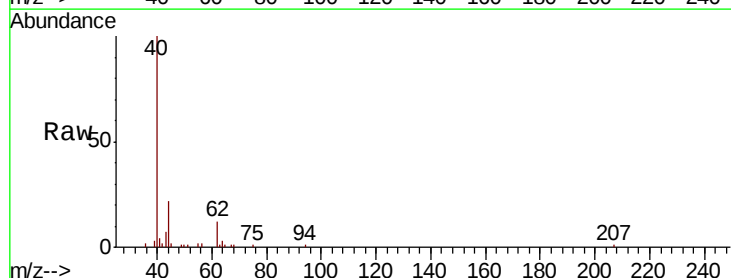
Acq: 23 Mar 2019 17:05

Tgt Ion: 62 Resp: 5050

Ion Ratio Lower Upper

62 100

64 28.1 26.2 39.2



Abundance Ion 62.00 (61.70 to 62.70): VF0

Ion 64.00 (63.70 to 64.70): VF0

1.14

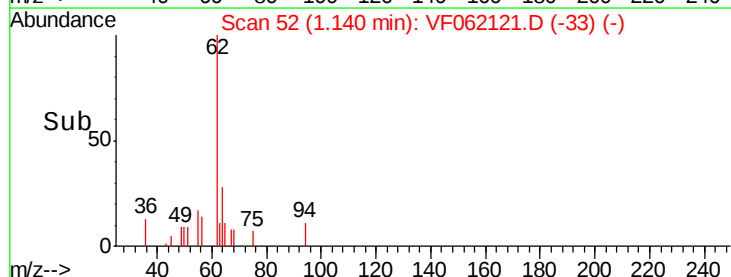
1500

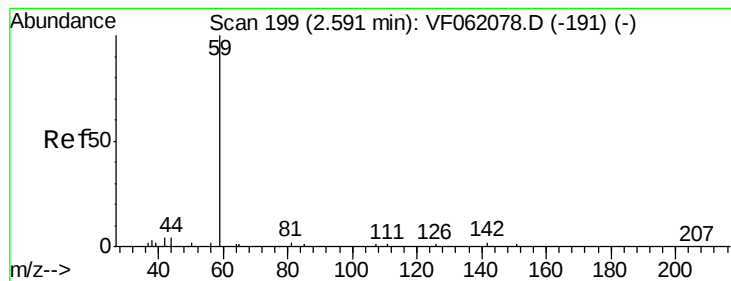
1000

500

0

Time-->



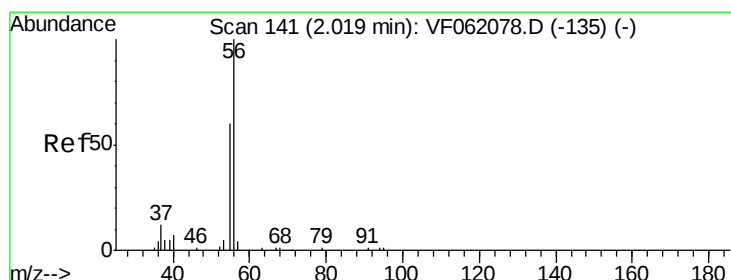
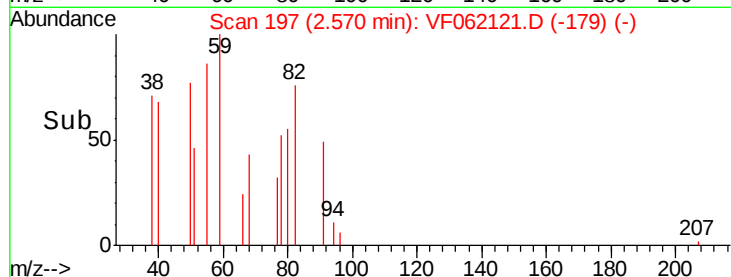
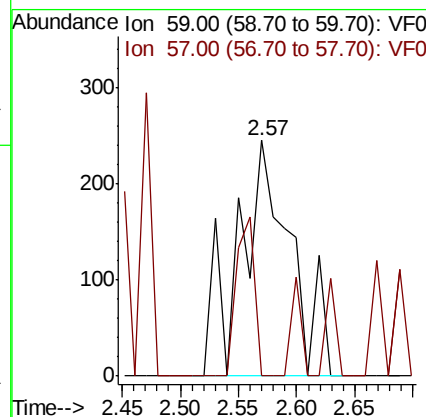
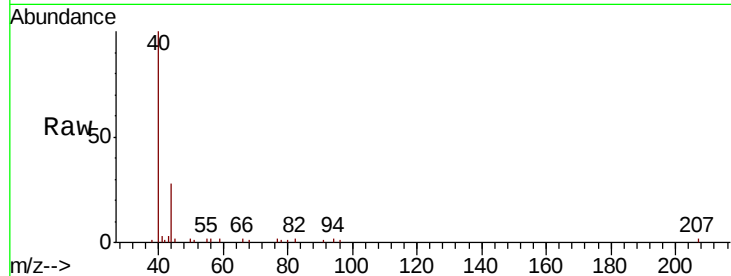


#11

Tert butyl alcohol
 Concen: 8.362 ug/l
 RT: 2.57 min Scan# 197
 Delta R.T. -0.02 min
 Lab File: VF062121.D
 Acq: 23 Mar 2019 17:05

Instrument :
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 ClientSampleId :
 WP022SB438-190318-(25-27)

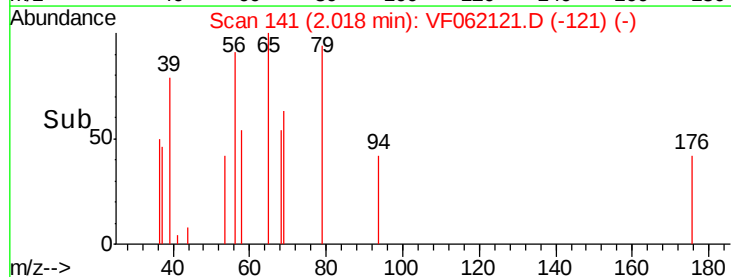
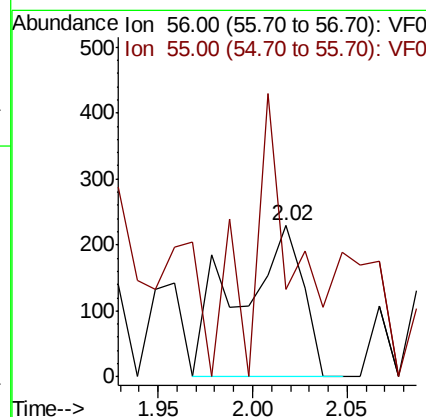
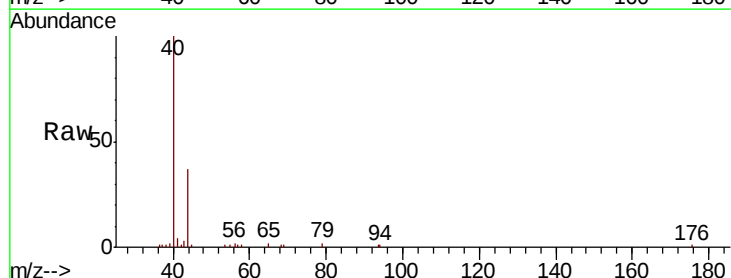
Tot Ion: 59 Resp: 759
 Ion Ratio Lower Upper
 59 100
 57 0.0 11.0 16.4#

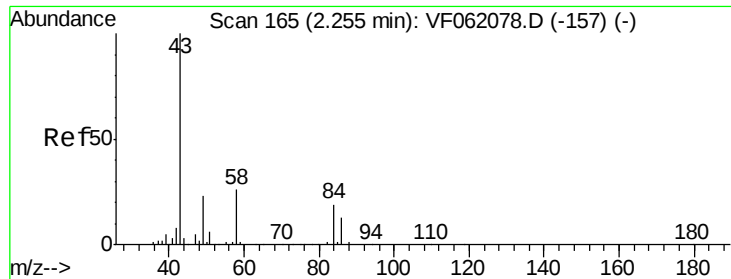


#13

Acrolein
 Concen: 4.966 ug/l
 RT: 2.02 min Scan# 141
 Delta R.T. -0.00 min
 Lab File: VF062121.D
 Acq: 23 Mar 2019 17:05

Tgt Ion: 56 Resp: 542
 Ion Ratio Lower Upper
 56 100
 55 58.1 49.0 73.4





#16

Acetone

Concen: 56.526 ug/l

RT: 2.24 min Scan# 164

Delta R.T. -0.01 min

Lab File: VF062121.D

Acq: 23 Mar 2019 17:05

Instrument :

MSVOA_F

ClientSampleId :

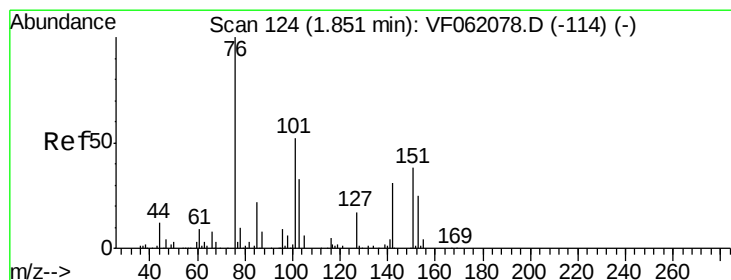
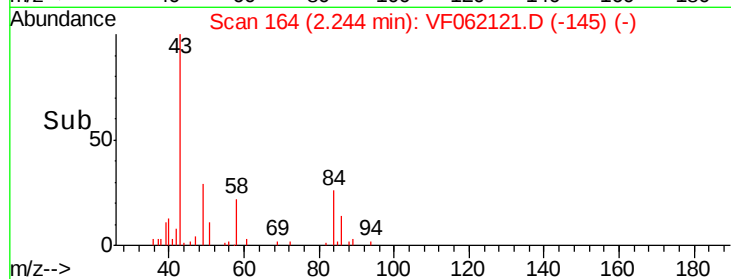
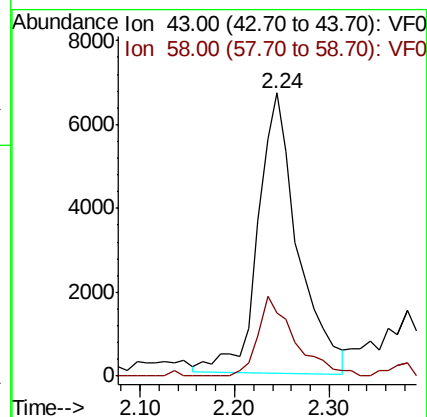
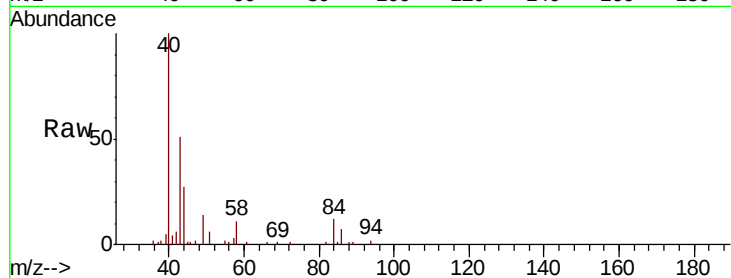
WP022SB438-190318-(25-27)

Tot Ion: 43 Resp: 19626

Ion Ratio Lower Upper

43 100

58 22.4 20.8 31.2



#17

Carbon Disulfide

Concen: 1.314 ug/l

RT: 1.82 min Scan# 121

Delta R.T. -0.03 min

Lab File: VF062121.D

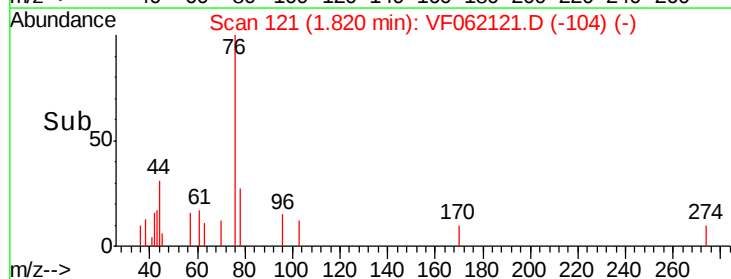
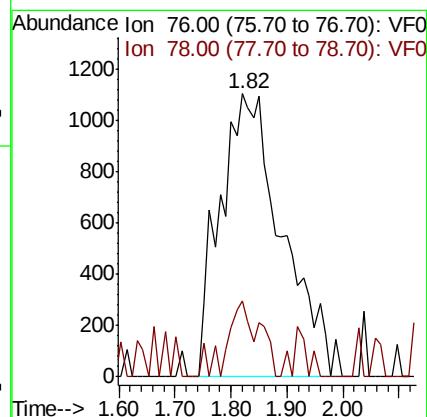
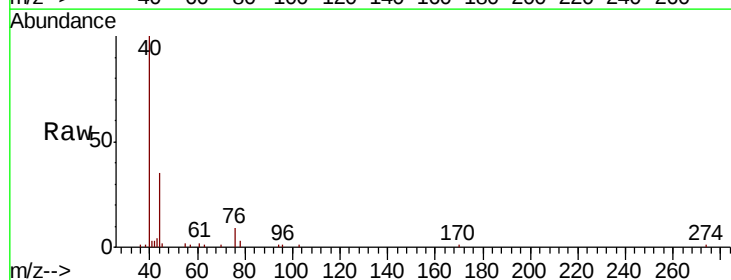
Acq: 23 Mar 2019 17:05

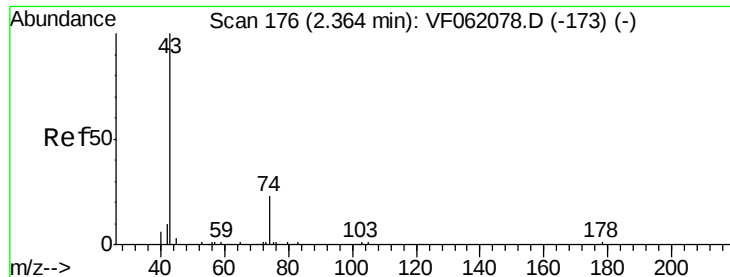
Tgt Ion: 76 Resp: 8569

Ion Ratio Lower Upper

76 100

78 27.1 7.9 11.9#

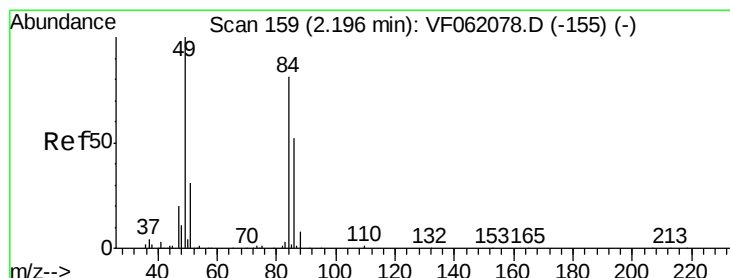
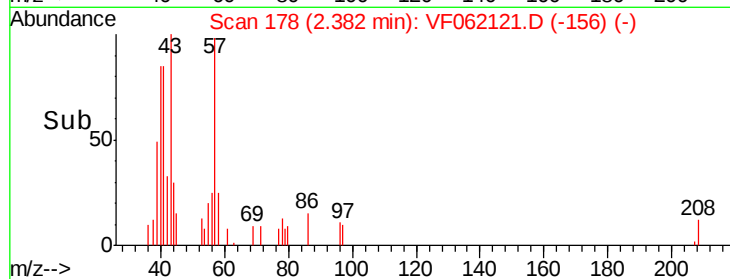
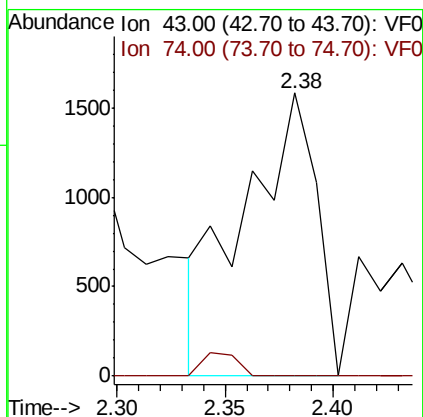
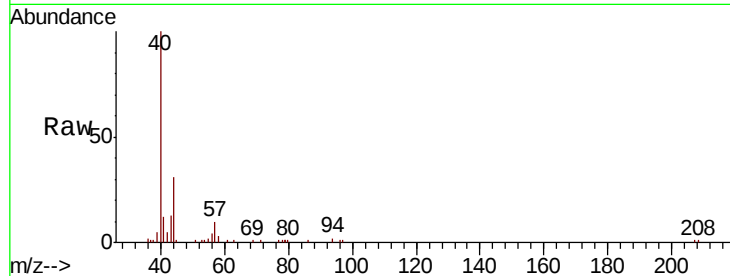




#18
Methyl Acetate
Concen: 4.461 ug/l
RT: 2.38 min Scan# 178
Delta R.T. 0.02 min
Lab File: VF062121.D
Acq: 23 Mar 2019 17:05

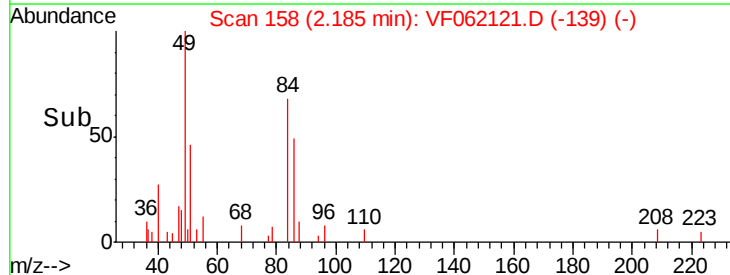
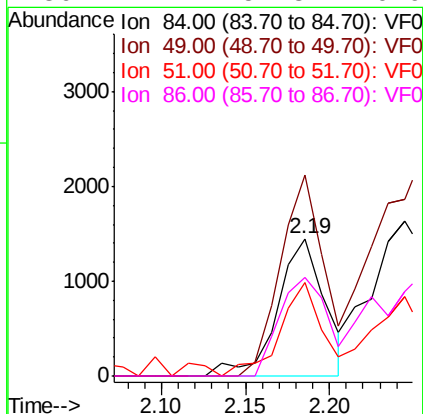
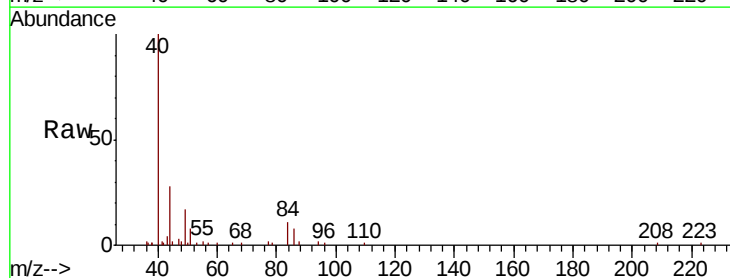
Instrument :
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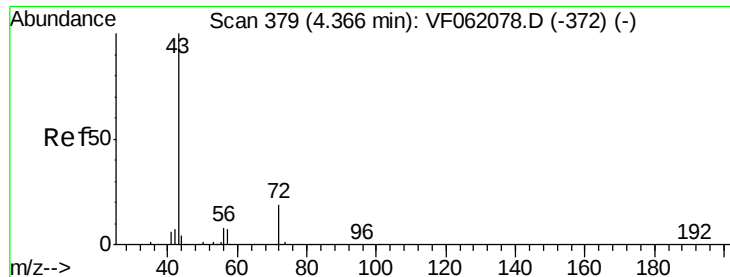
Tot Ion: 43 Resp: 3695
Ion Ratio Lower Upper
43 100
74 0.0 16.3 24.5#



#20
Methylene Chloride
Concen: Below Cal
RT: 2.19 min Scan# 158
Delta R.T. -0.01 min
Lab File: VF062121.D
Acq: 23 Mar 2019 17:05

Tgt Ion: 84 Resp: 2826
Ion Ratio Lower Upper
84 100
49 146.8 100.4 150.6
51 68.2 31.0 46.6#
86 71.7 51.3 76.9





#25

2-Butanone

Concen: 2.777 ug/l

RT: 4.35 min Scan# 378

Delta R.T. -0.01 min

Lab File: VF062121.D

Acq: 23 Mar 2019 17:05

Instrument :

MSVOA_F

ClientSampleId :

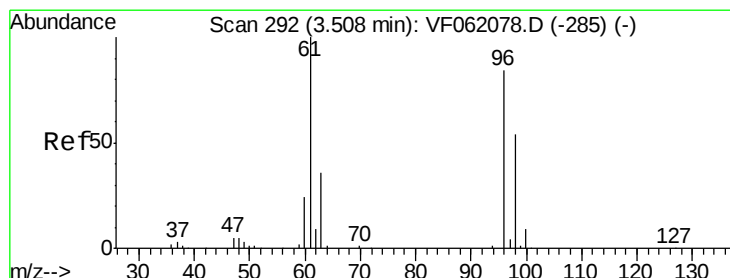
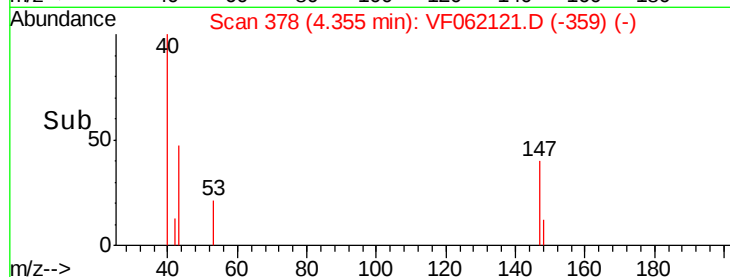
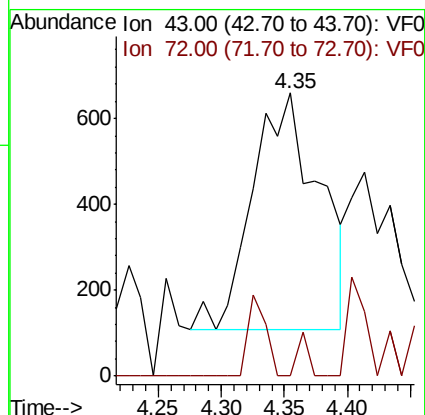
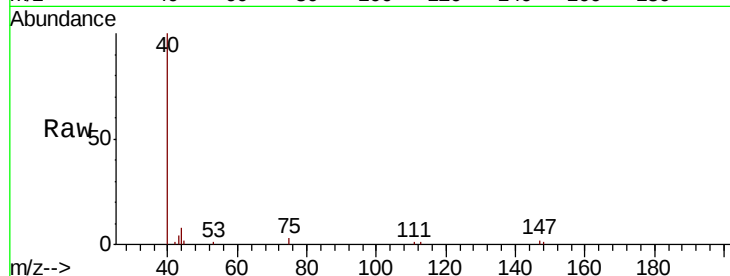
WP022SB438-190318-(25-27)

Tot Ion: 43 Resp: 2013

Ion Ratio Lower Upper

43 100

72 0.0 16.7 25.1#



#27

cis-1,2-Dichloroethene

Concen: 14.308 ug/l

RT: 3.48 min Scan# 289

Delta R.T. -0.03 min

Lab File: VF062121.D

Acq: 23 Mar 2019 17:05

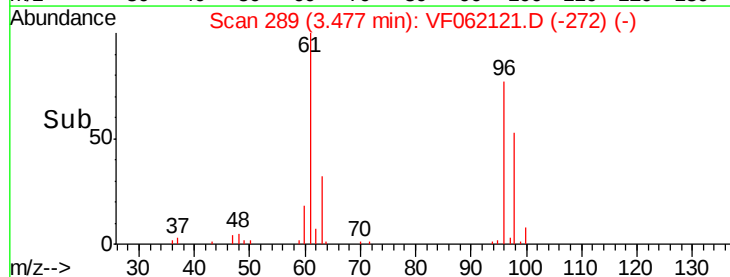
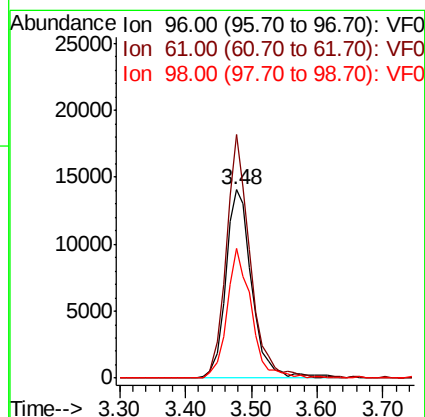
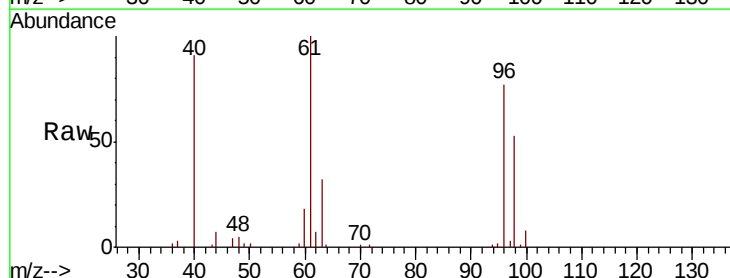
Tgt Ion: 96 Resp: 39001

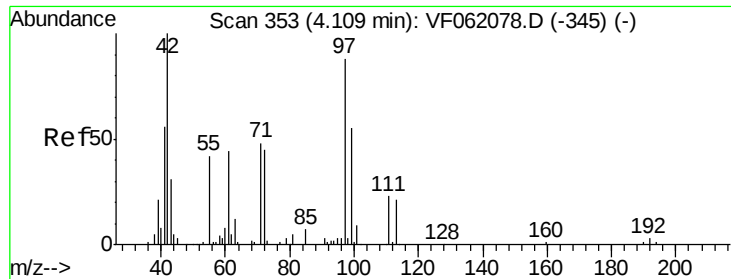
Ion Ratio Lower Upper

96 100

61 129.3 0.0 239.0

98 68.9 0.0 128.2





#29

Tetrahydrofuran

Concen: 3.376 ug/l

RT: 4.07 min Scan# 349

Delta R.T. -0.04 min

Lab File: VF062121.D

Acq: 23 Mar 2019 17:05

Instrument :

MSVOA_F

ClientSampleId :

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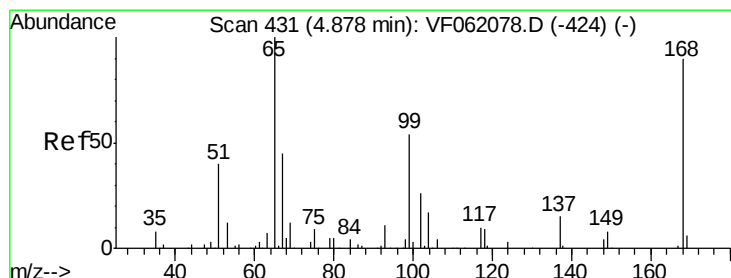
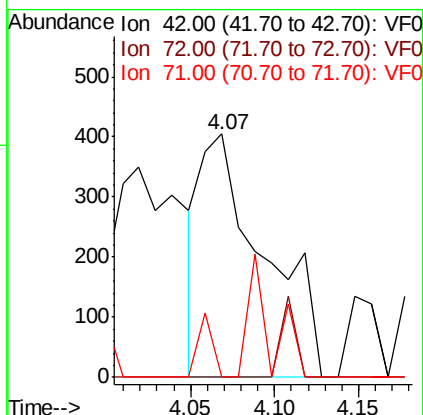
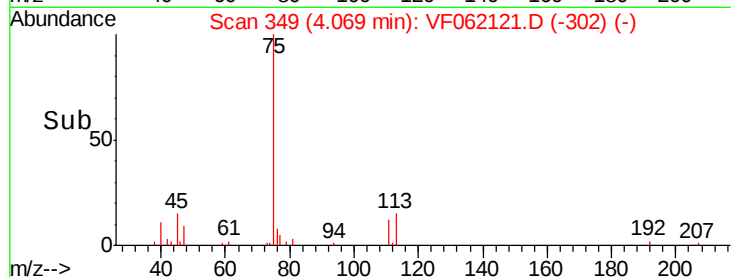
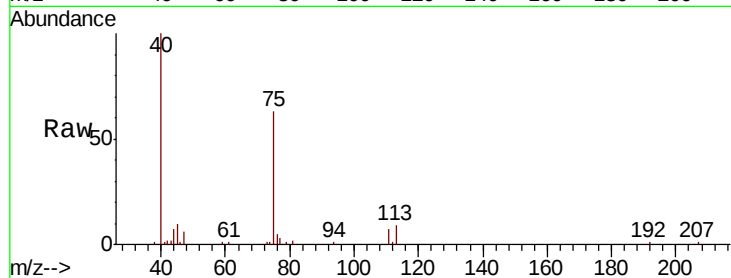
Tot Ion: 42 Resp: 1064

Ion Ratio Lower Upper

42 100

72 0.0 33.3 49.9#

71 6.0 35.0 52.4#



#33

1,2-Dichloroethane-d4

Concen: 50.199 ug/l

RT: 4.85 min Scan# 428

Delta R.T. -0.03 min

Lab File: VF062121.D

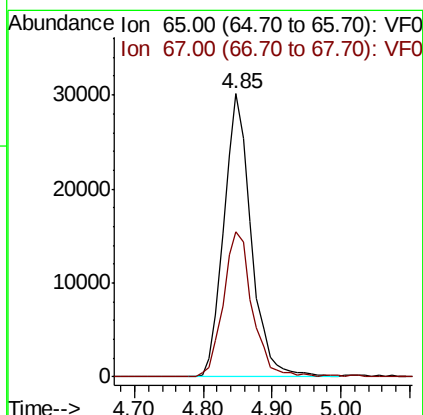
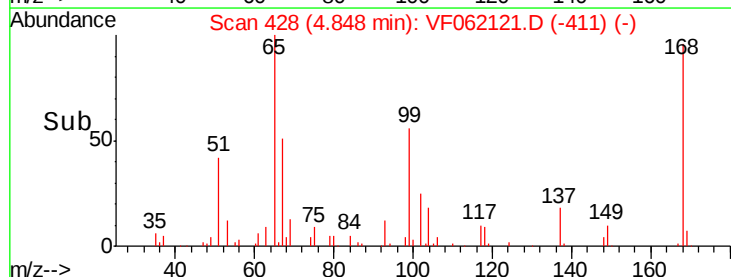
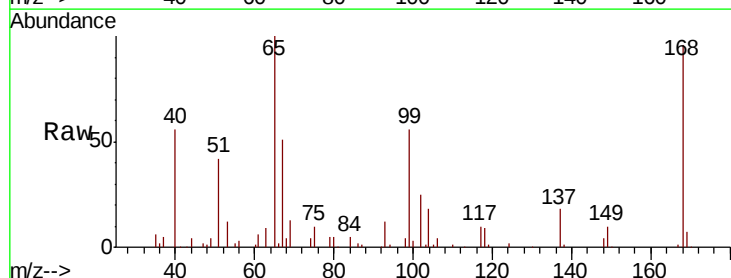
Acq: 23 Mar 2019 17:05

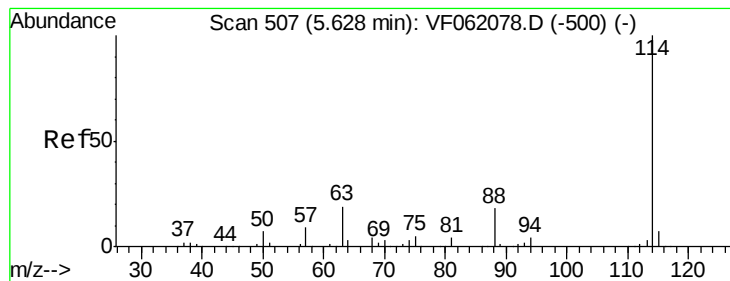
Tgt Ion: 65 Resp: 82813

Ion Ratio Lower Upper

65 100

67 51.2 0.0 106.2





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.61 min Scan# 505

Delta R.T. -0.02 min

Lab File: VF062121.D

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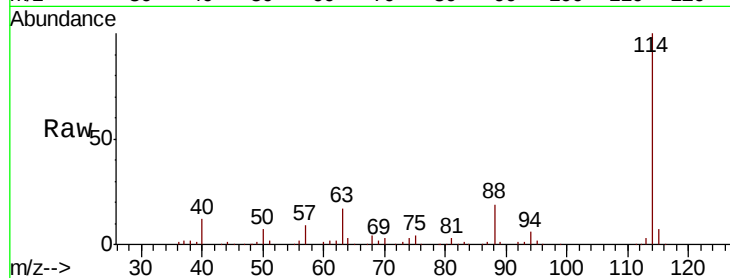
Tot Ion:114 Resp: 341829

Ion Ratio Lower Upper

114 100

63 17.3 0.0 37.8

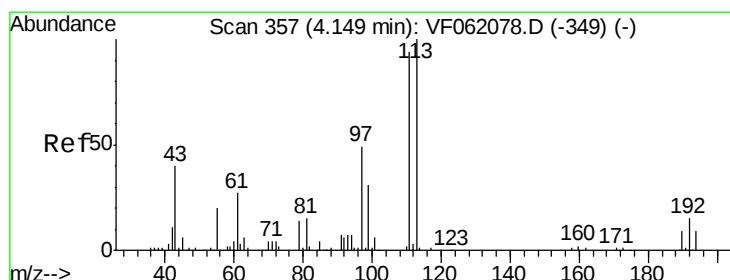
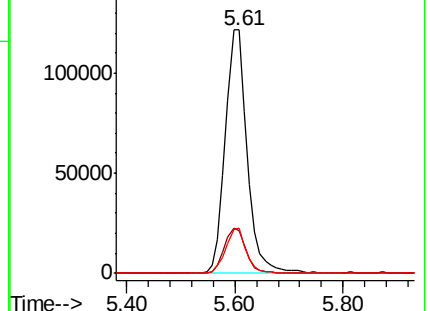
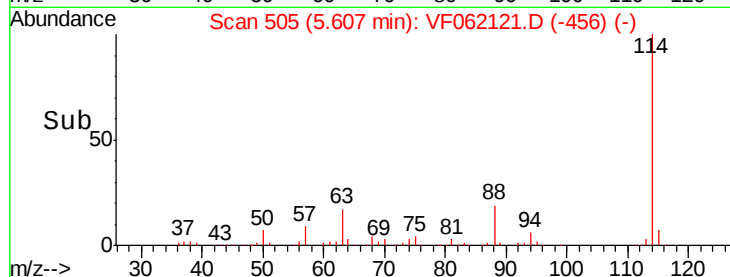
88 18.6 0.0 36.4



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: 48.270 ug/l

RT: 4.12 min Scan# 354

Delta R.T. -0.03 min

Lab File: VF062121.D

Acq: 23 Mar 2019 17:05

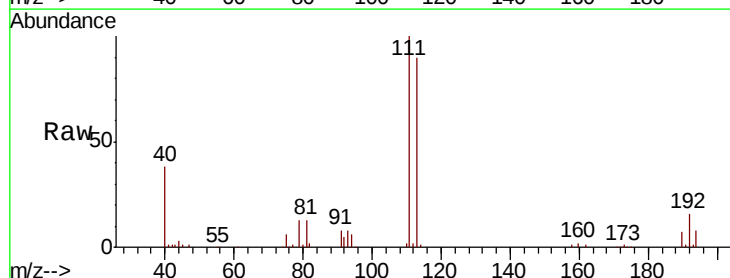
Tgt Ion:113 Resp: 111616

Ion Ratio Lower Upper

113 100

111 111.3 75.4 113.0

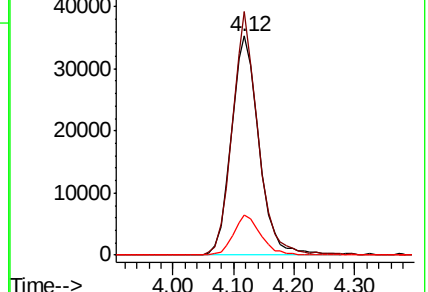
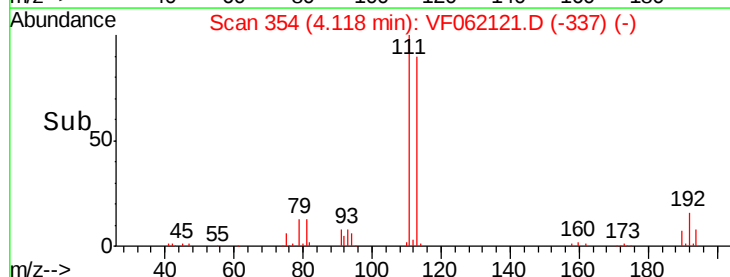
192 18.1 12.3 18.5

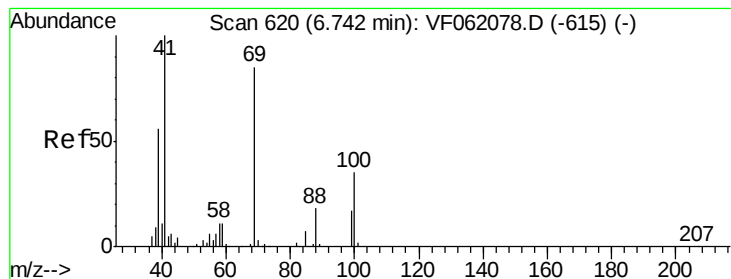


Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V





#49

1,4-Dioxane

Concen: 7.085 ug/l

RT: 6.45 min Scan# 590

Delta R.T. -0.30 min

Lab File: VF062121.D

Acq: 23 Mar 2019 17:05

Instrument :

MSVOA_F

ClientSampleId :

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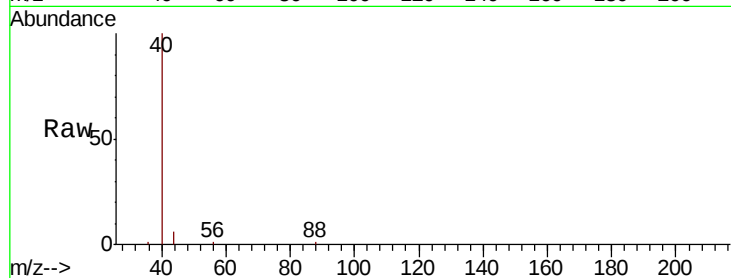
Tot Ion: 88 Resp: 61

Ion Ratio Lower Upper

88 100

43 0.0 35.0 52.4#

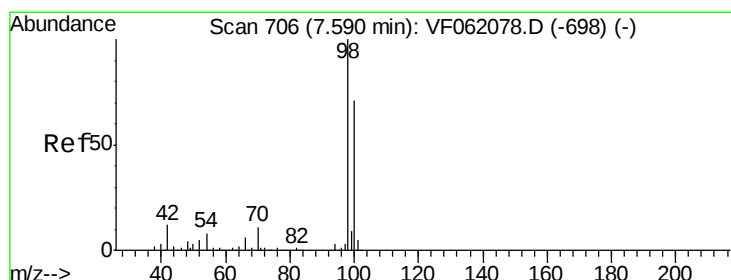
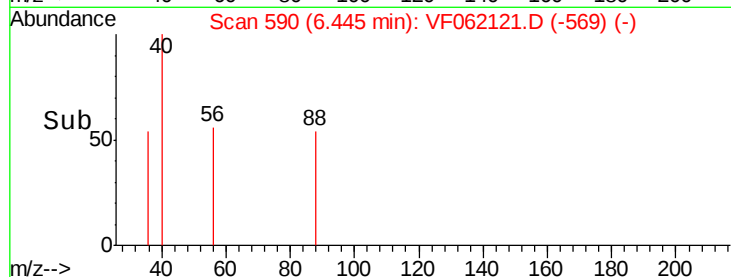
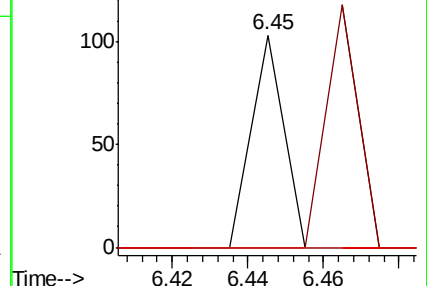
58 0.0 49.9 74.9#



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: 40.237 ug/l

RT: 7.56 min Scan# 703

Delta R.T. -0.03 min

Lab File: VF062121.D

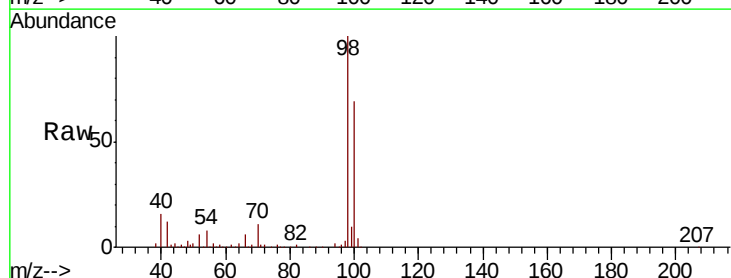
Acq: 23 Mar 2019 17:05

Tgt Ion: 98 Resp: 277730

Ion Ratio Lower Upper

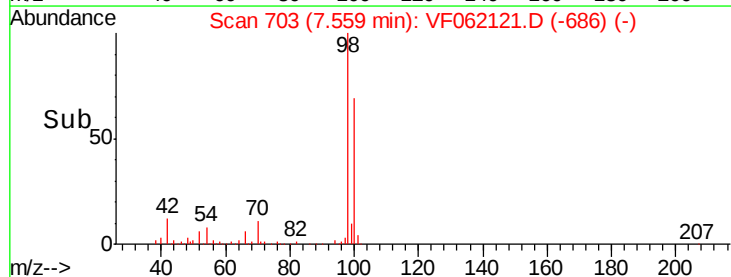
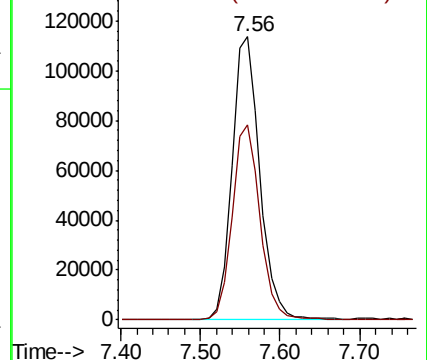
98 100

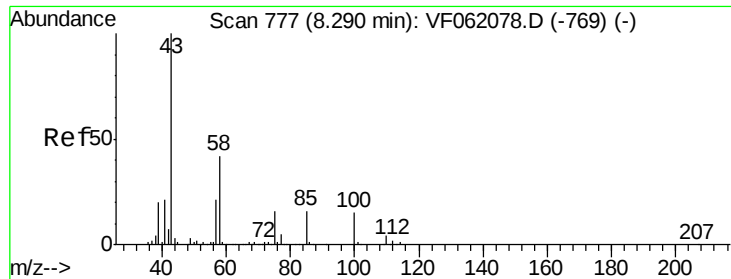
100 69.0 57.0 85.6



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: 7.188 ug/l

RT: 8.29 min Scan# 777

Delta R.T. -0.00 min

Lab File: VF062121.D

Acq: 23 Mar 2019 17:05

Instrument :

MSVOA_F

ClientSampleId :

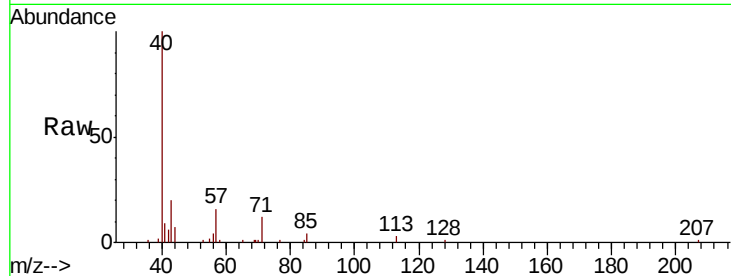
WP022SB438-190318-(25-27)

Tot Ion: 43 Resp: 8291

Ion Ratio Lower Upper

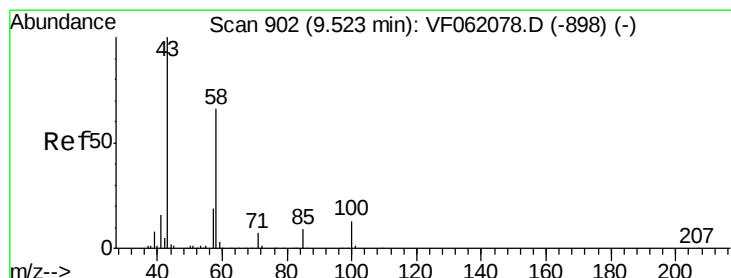
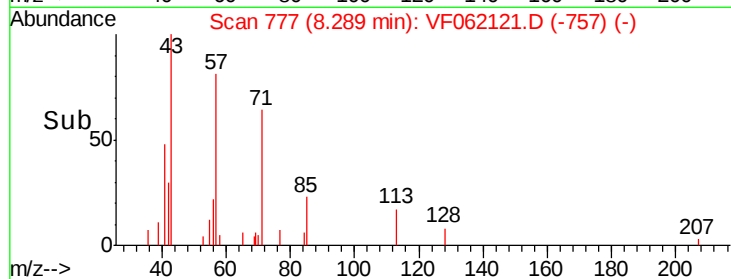
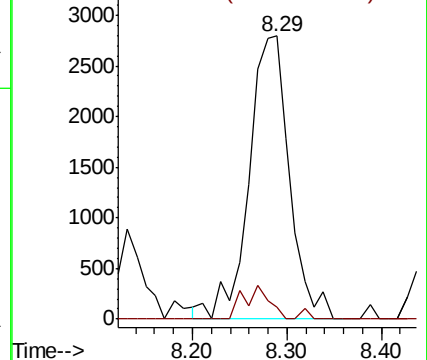
43 100

58 4.4 33.8 50.8#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#59

2-Hexanone

Concen: 1.047 ug/l

RT: 9.50 min Scan# 900

Delta R.T. -0.02 min

Lab File: VF062121.D

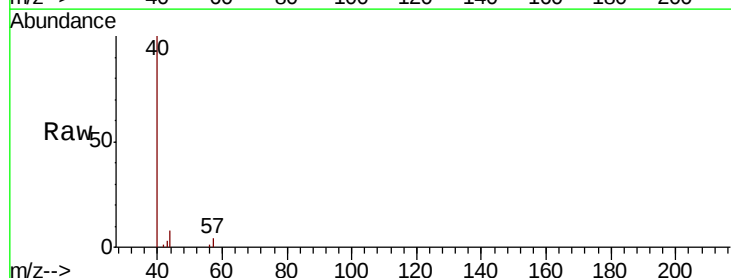
Acq: 23 Mar 2019 17:05

Tgt Ion: 43 Resp: 885

Ion Ratio Lower Upper

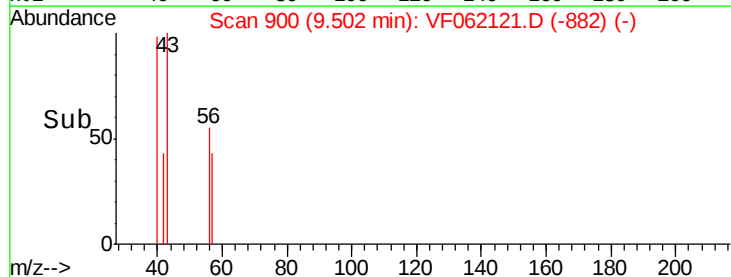
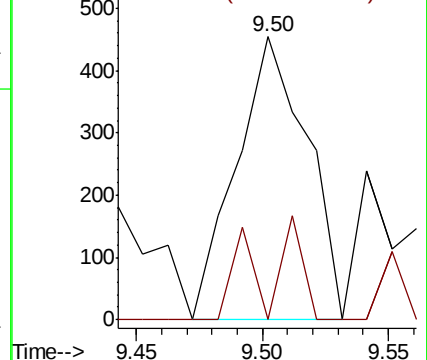
43 100

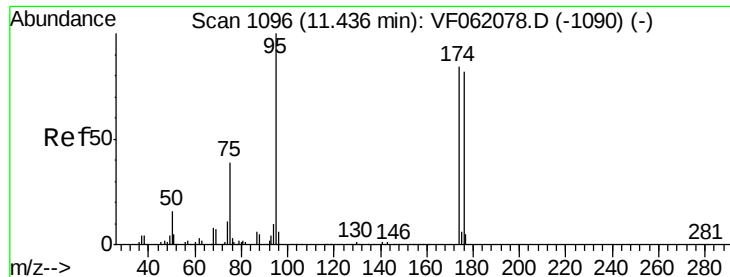
58 0.0 28.8 86.4#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0





#62

4-Bromofluorobenzene

Concen: 39.003 ug/l

RT: 11.41 min Scan# 1094

Delta R.T. -0.02 min

Lab File: VF062121.D

Acq: 23 Mar 2019 17:05

Instrument :

MSVOA_F

ClientSampleId :

WP022SB438-190318-(25-27)

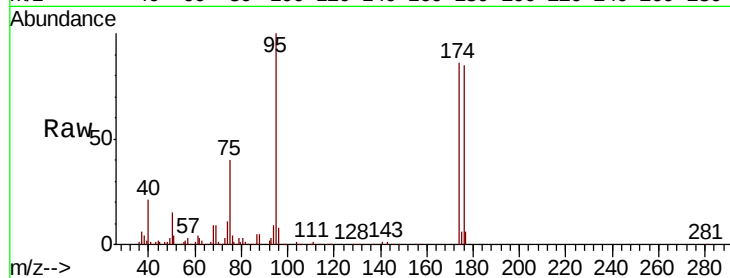
Tot Ion: 95 Resp: 103932

Ion Ratio Lower Upper

95 100

174 85.9 0.0 168.2

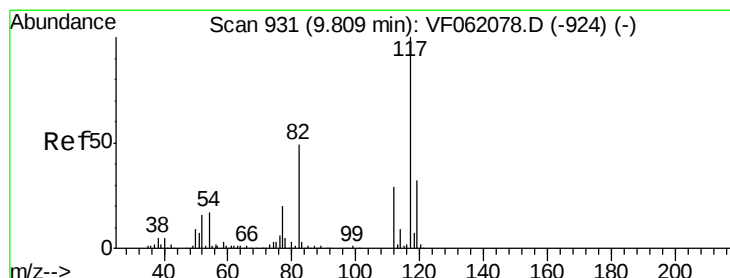
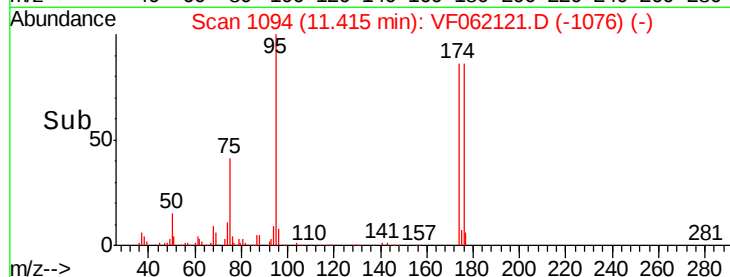
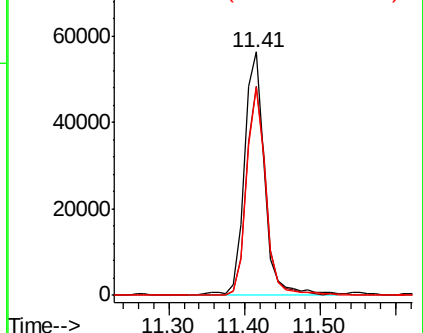
176 85.2 0.0 164.2



Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): VF0

Ion 176.00 (175.70 to 176.70): VF0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.78 min Scan# 928

Delta R.T. -0.03 min

Lab File: VF062121.D

Acq: 23 Mar 2019 17:05

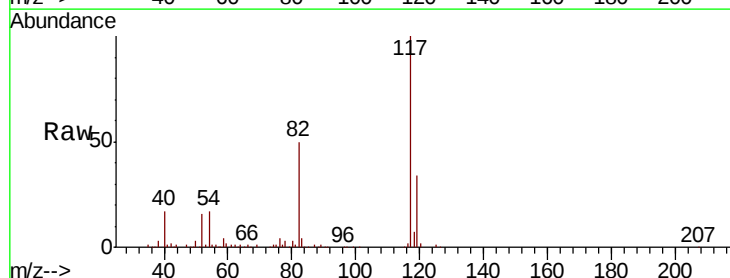
Tgt Ion: 117 Resp: 266500

Ion Ratio Lower Upper

117 100

82 50.2 39.2 58.8

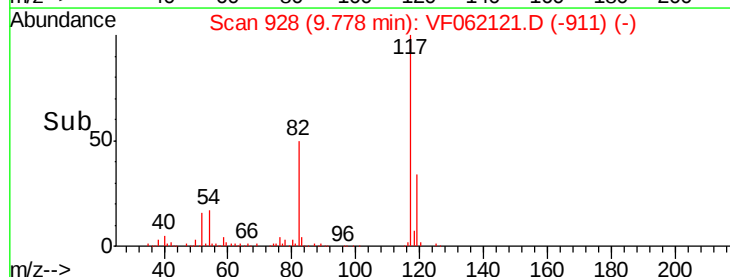
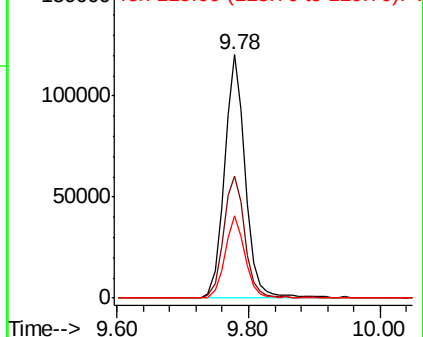
119 33.7 25.4 38.2

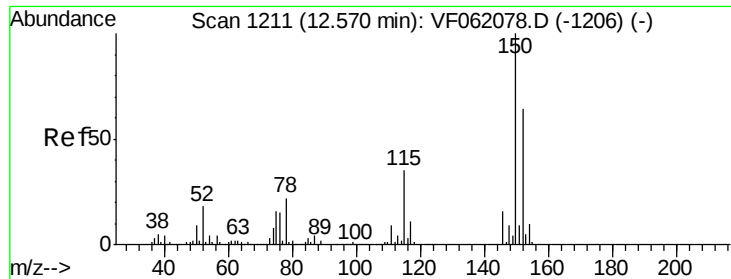


Abundance Ion 117.00 (116.70 to 117.70): VF0

Ion 82.00 (81.70 to 82.70): VF0

Ion 119.00 (118.70 to 119.70): VF0



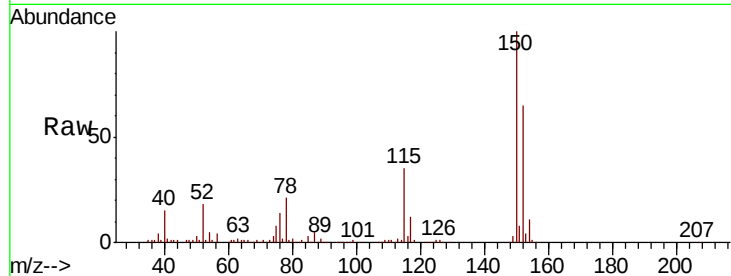


#72

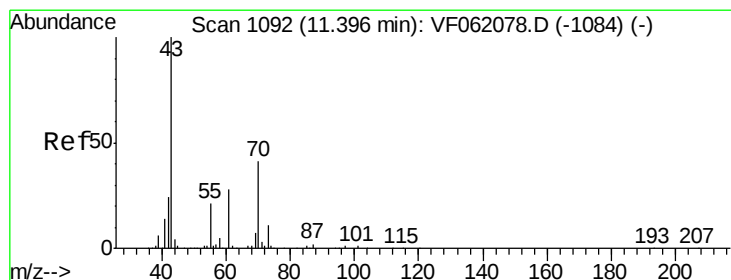
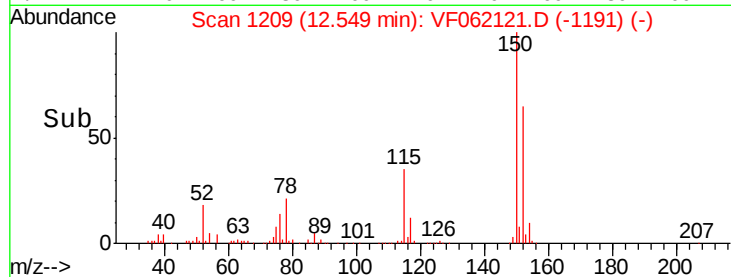
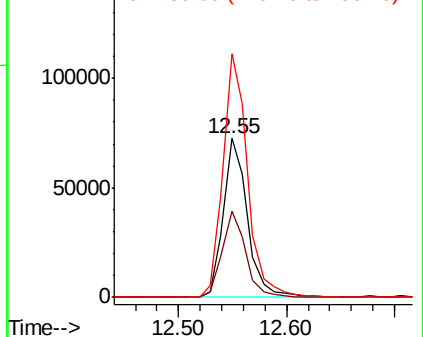
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.55 min Scan# 1209
Delta R.T. -0.02 min
Lab File: VF062121.D
Acq: 23 Mar 2019 17:05

Instrument :
MSVOA_F
ClientSampleId :
WP022SB438-190318-(25-27)

Tot Ion:152 Resp: 112247
Ion Ratio Lower Upper
152 100
115 54.3 27.7 83.1
150 153.5 0.0 313.2



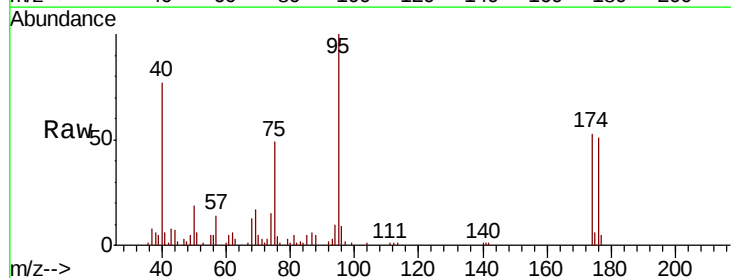
Abundance Ion 152.00 (151.70 to 152.70): V
Ion 115.00 (114.70 to 115.70): V
Ion 150.00 (149.70 to 150.70): V



#74

N-ethyl acetate
Concen: 1.675 ug/l
RT: 11.40 min Scan# 1092
Delta R.T. -0.00 min
Lab File: VF062121.D
Acq: 23 Mar 2019 17:05

Tgt Ion: 43 Resp: 3153
Ion Ratio Lower Upper
43 100
70 64.9 32.9 49.3#
55 58.3 17.1 25.7#
61 58.6 22.2 33.2#



Abundance Ion 43.00 (42.70 to 43.70): VF0
Ion 70.00 (69.70 to 70.70): VF0
Ion 55.00 (54.70 to 55.70): VF0
Ion 61.00 (60.70 to 61.70): VF0

