

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF052119\
 Data File : VF062688.D
 Acq On : 21 May 2019 17:39
 Operator : FY/SY
 Sample : K2971-03
 Misc : 6.11g/5mL/MSVOA F/SOIL
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :

Quant Time: May 22 03:57:06 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F051619S.M
 Quant Title : SW846 8260
 QLast Update : Fri May 17 05:49:09 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.06	168	752319	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.78	114	1228228	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.91	117	855469	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.61	152	350439	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.04	65	198185	37.28	ug/l	0.00
Spiked Amount			Recovery	=	74.56%	
35) Dibromofluoromethane	4.31	113	360019	38.31	ug/l	0.00
Spiked Amount			Recovery	=	76.62%	
50) Toluene-d8	7.71	98	725471	32.33	ug/l	0.00
Spiked Amount			Recovery	=	64.66%	
62) 4-Bromofluorobenzene	11.49	95	261339	30.71	ug/l	0.00
Spiked Amount			Recovery	=	61.42%	

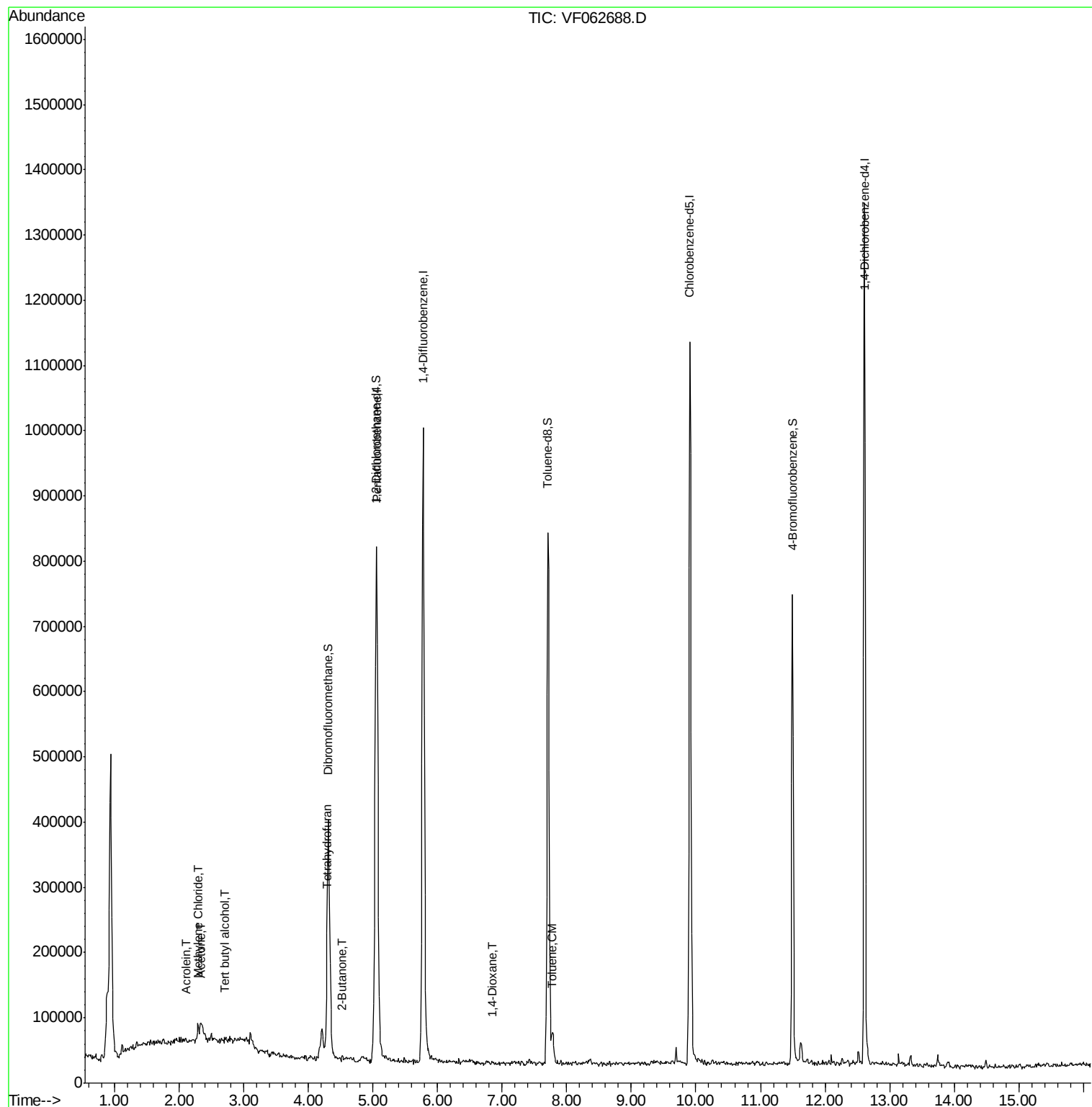
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	2.70	59	1625	4.630	ug/l #	1
13) Acrolein	2.09	56	819	2.235	ug/l	84
16) Acetone	2.35	43	22143	16.055	ug/l	93
20) Methylene Chloride	2.29	84	12448	1.801	ug/l	93
25) 2-Butanone	4.53	43	5269	1.788	ug/l	98
29) Tetrahydrofuran	4.28	42	3129	2.624	ug/l #	77
49) 1,4-Dioxane	6.85	88	266	5.968	ug/l #	1
52) Toluene	7.79	92	24830	1.381	ug/l	83
59) 2-Hexanone	9.63	43	6254	Below Cal		77
74) N-amyl acetate	11.43	43	962	Below Cal	#	65

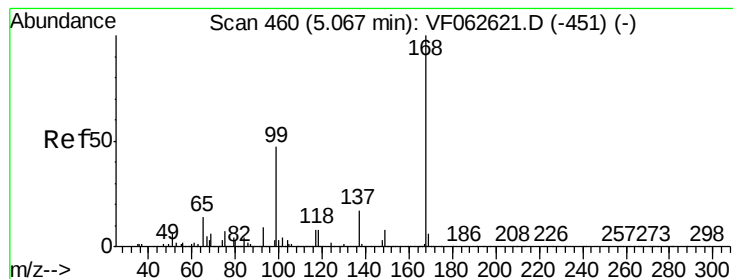
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Fri May 17 05:49:09 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.06 min Scan# 459

Delta R.T. -0.01 min

Lab File: VF062688.D

Acq: 21 May 2019 17:39

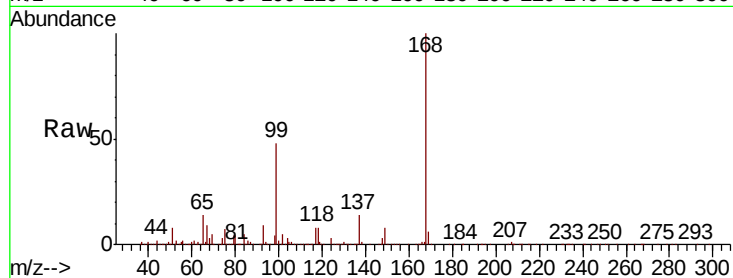
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:168 Resp: 752319

Ion Ratio Lower Upper

168 100

99 48.0 37.8 56.8



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

5.06

250000

200000

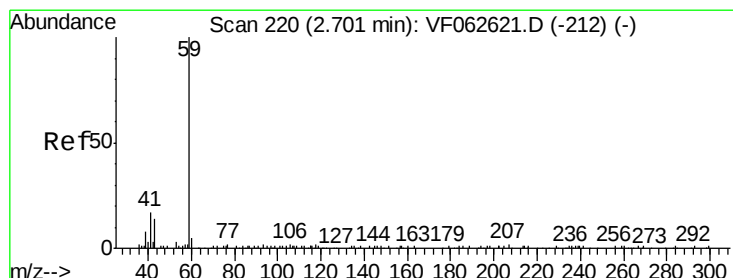
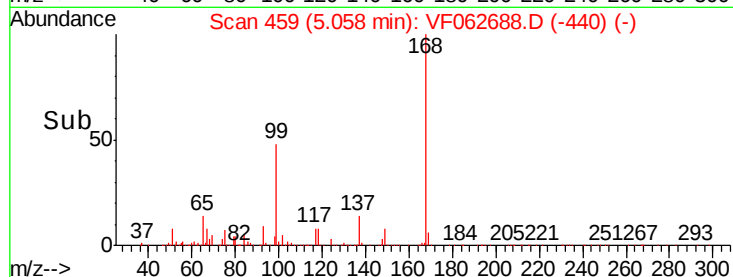
150000

100000

50000

0

Time-->



#11

Tert butyl alcohol

Concen: 4.630 ug/l

RT: 2.70 min Scan# 220

Delta R.T. 0.00 min

Lab File: VF062688.D

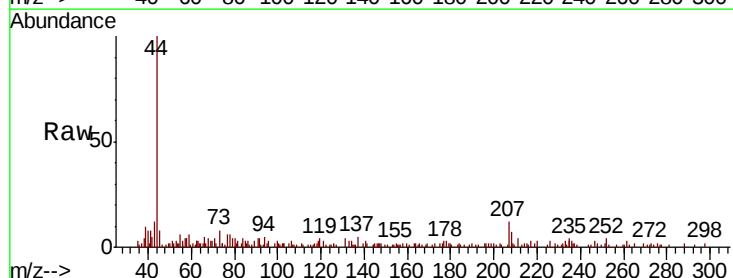
Acq: 21 May 2019 17:39

Tgt Ion: 59 Resp: 1625

Ion Ratio Lower Upper

59 100

57 71.6 9.3 13.9#



Abundance Ion 59.00 (58.70 to 59.70): VF0

Ion 57.00 (56.70 to 57.70): VF0

2.70

800

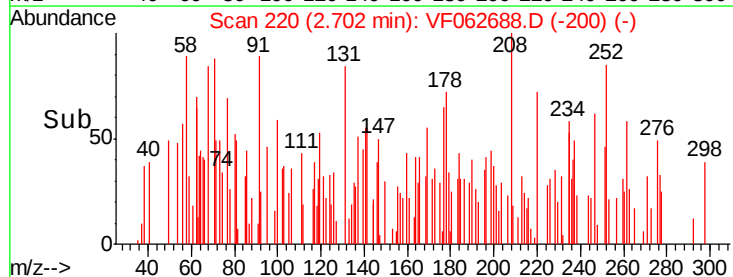
600

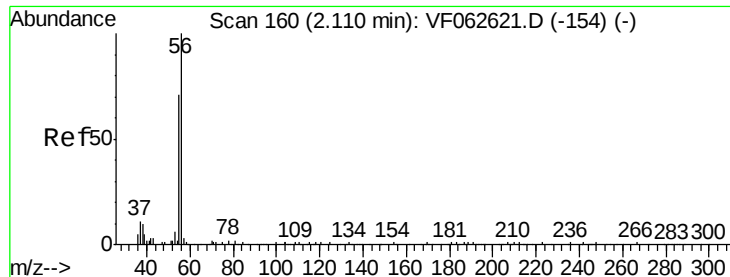
400

200

0

Time-->





#13

Acrolein

Concen: 2.235 ug/l

RT: 2.09 min Scan# 158

Delta R.T. -0.02 min

Lab File: VF062688.D

Acq: 21 May 2019 17:39

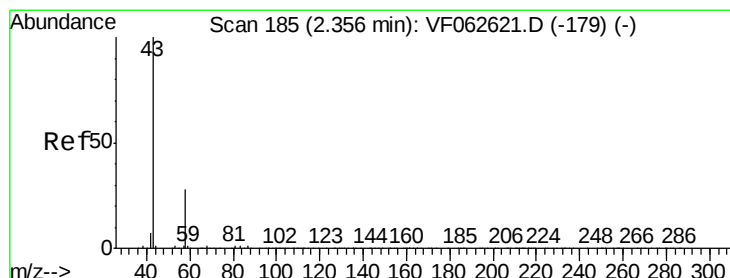
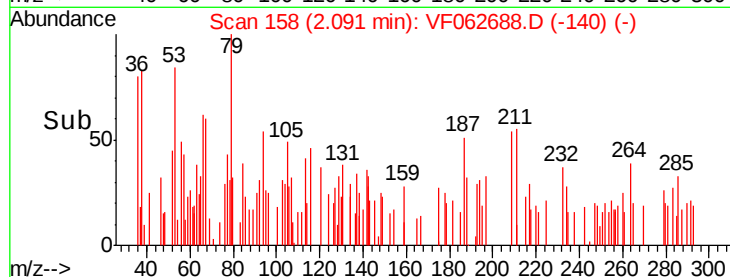
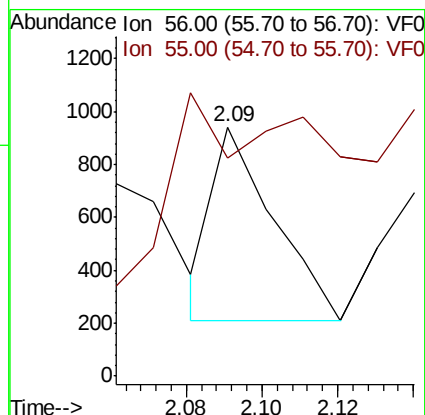
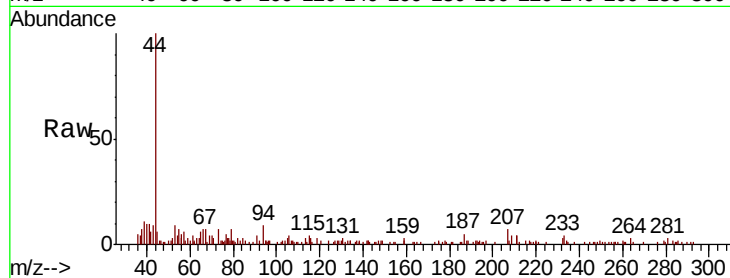
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 56 Resp: 819

Ion Ratio Lower Upper

56 100

55 87.6 59.4 89.0



#16

Acetone

Concen: 16.055 ug/l

RT: 2.35 min Scan# 184

Delta R.T. -0.01 min

Lab File: VF062688.D

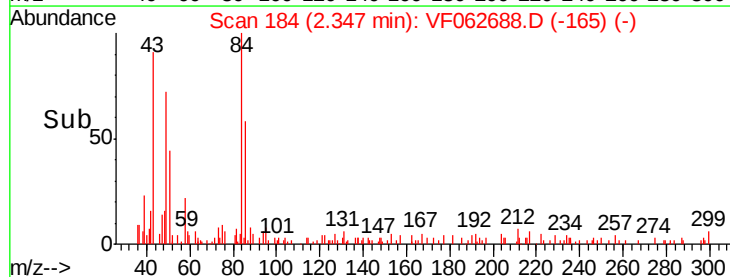
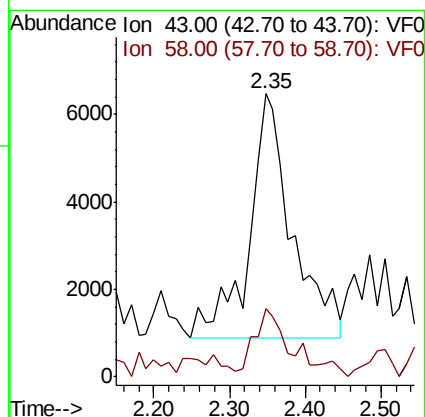
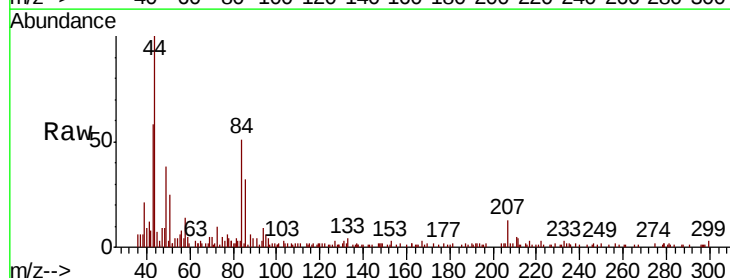
Acq: 21 May 2019 17:39

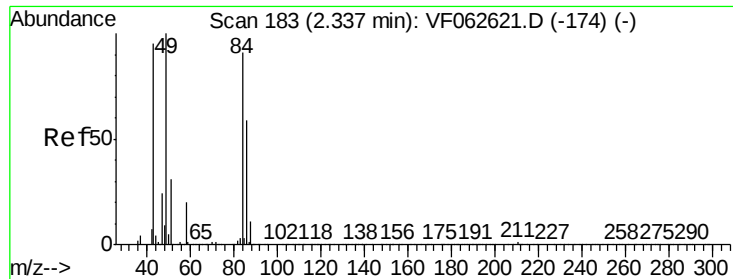
Tgt Ion: 43 Resp: 22143

Ion Ratio Lower Upper

43 100

58 24.3 22.6 33.8

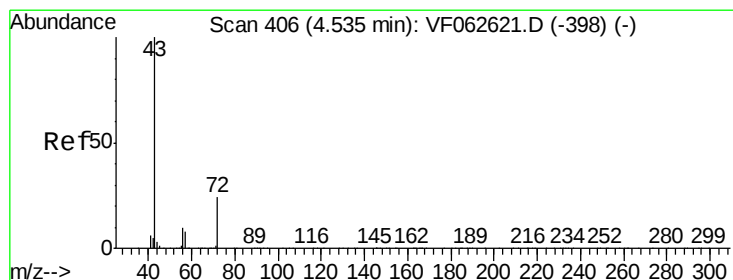
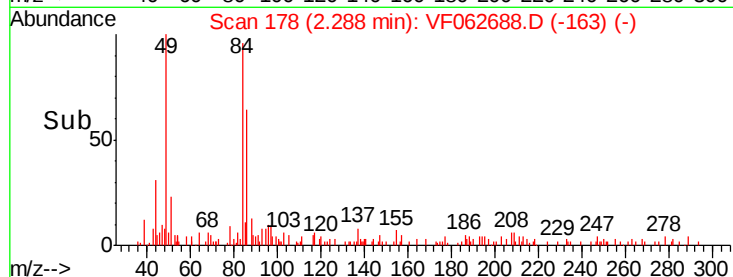
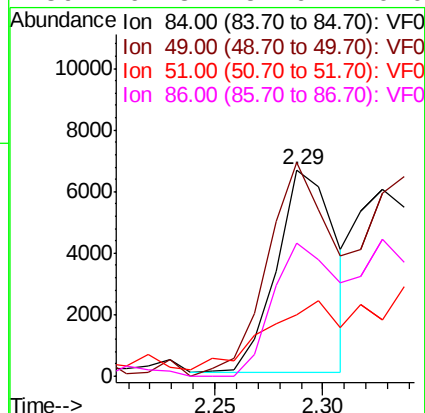
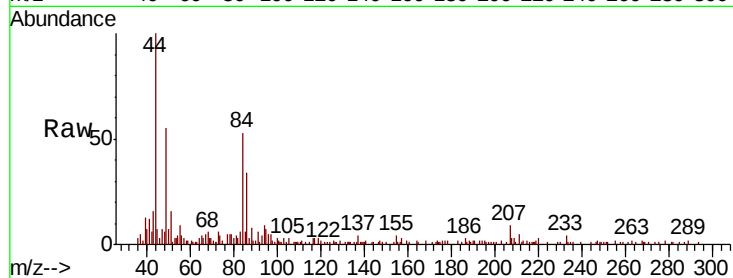




#20
Methvlene Chloride
Concen: 1.801 ug/l
RT: 2.29 min Scan# 178
Delta R.T. -0.05 min
Lab File: VF062688.D
Acq: 21 May 2019 17:39

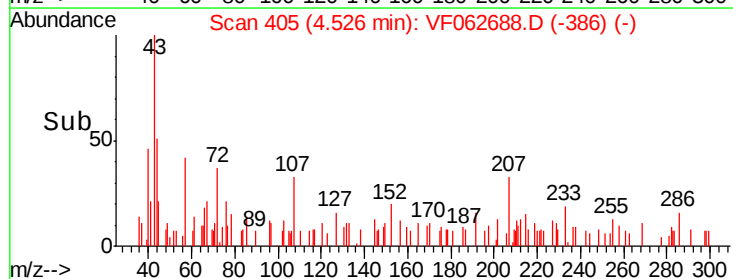
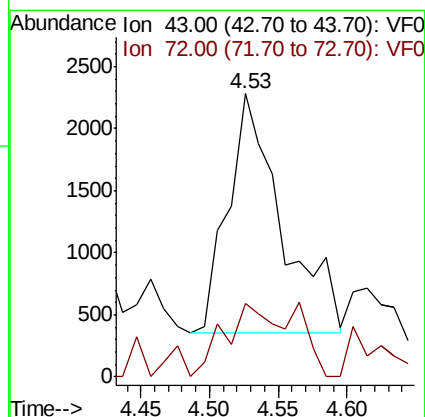
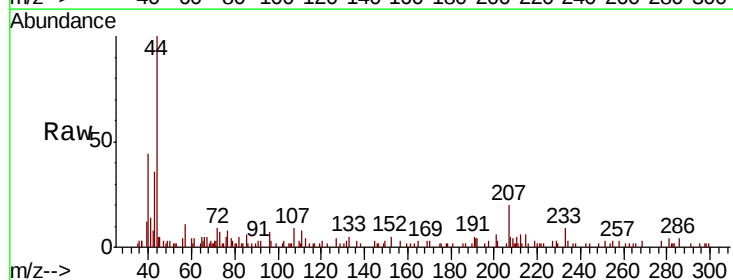
Instrument :
MSVOA_F
ClientSampleId :

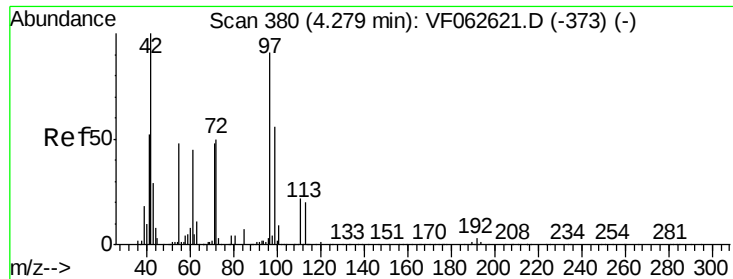
Tot Ion:	84	Resp:	12448
Ion	Ratio	Lower	Upper
84	100		
49	103.4	89.8	134.8
51	29.9	28.4	42.6
86	64.3	52.6	79.0



#25
2-Butanone
Concen: 1.788 ug/l
RT: 4.53 min Scan# 405
Delta R.T. -0.01 min
Lab File: VF062688.D
Acq: 21 May 2019 17:39

Tgt Ion:	43	Resp:	5269
Ion	Ratio	Lower	Upper
43	100		
72	26.0	20.1	30.1

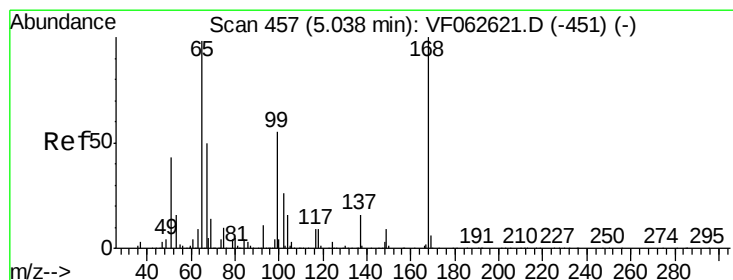
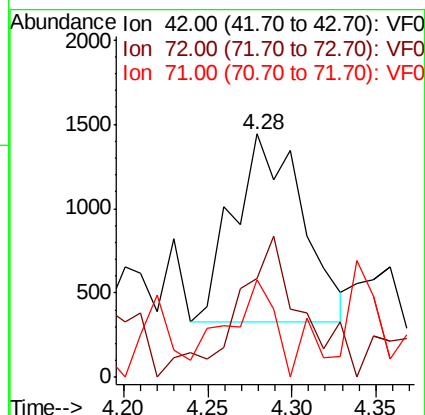
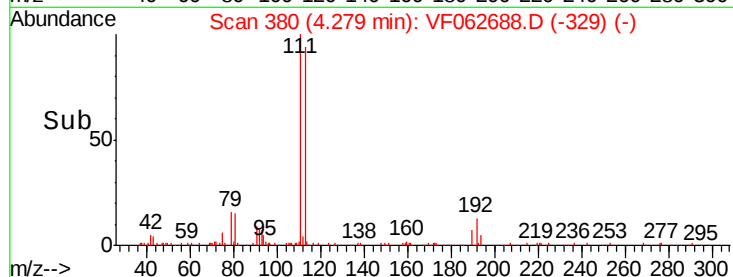
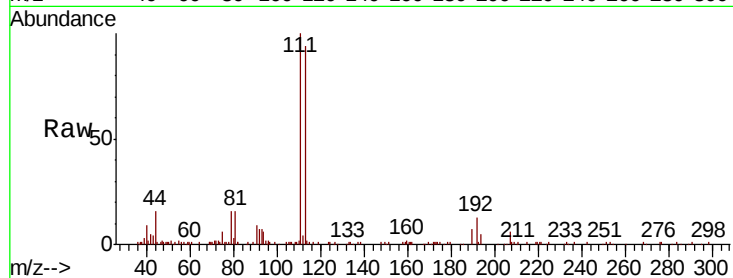




#29
Tetrahydrofuran
Concen: 2.624 ug/l
RT: 4.28 min Scan# 380
Delta R.T. 0.00 min
Lab File: VF062688.D
Acq: 21 May 2019 17:39

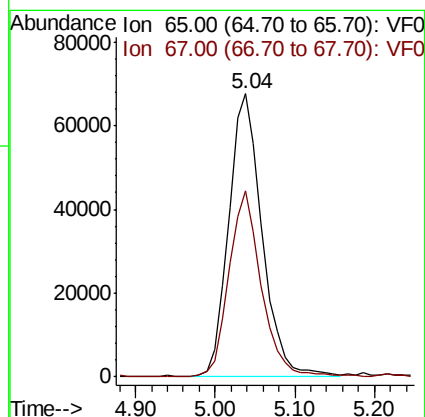
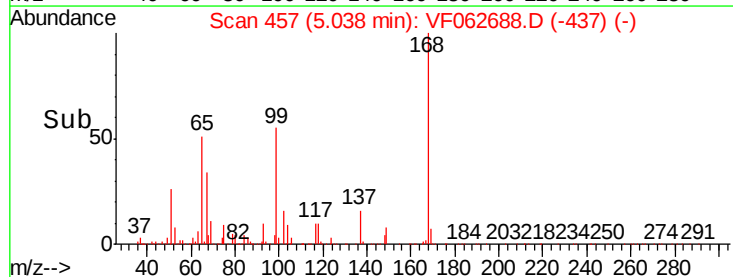
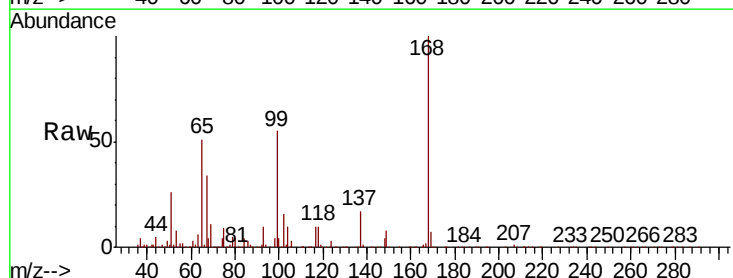
Instrument :
MSVOA_F
ClientSampleId :

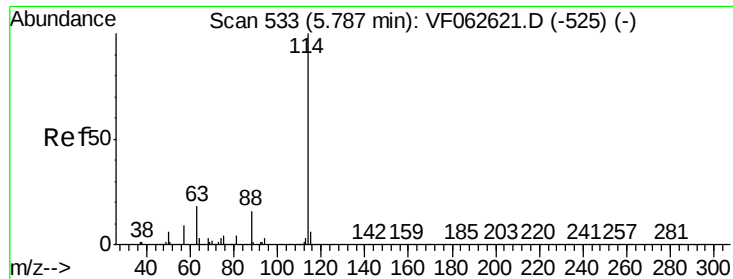
Tot Ion: 42 Resp: 3129
Ion Ratio Lower Upper
42 100
72 69.3 38.2 57.2#
71 35.6 35.8 53.6#



#33
1,2-Dichloroethane-d4
Concen: 37.279 ug/l
RT: 5.04 min Scan# 457
Delta R.T. 0.00 min
Lab File: VF062688.D
Acq: 21 May 2019 17:39

Tgt Ion: 65 Resp: 198185
Ion Ratio Lower Upper
65 100
67 65.8 0.0 117.6

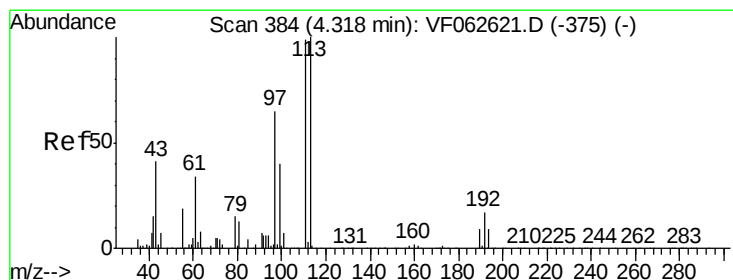
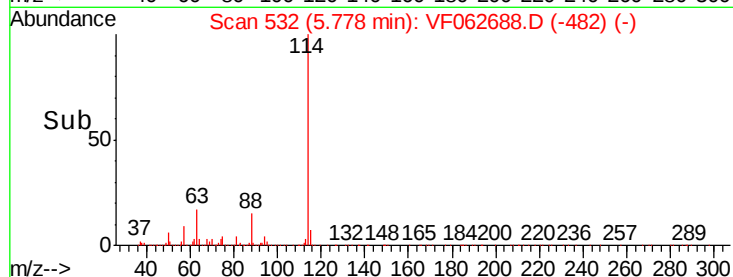
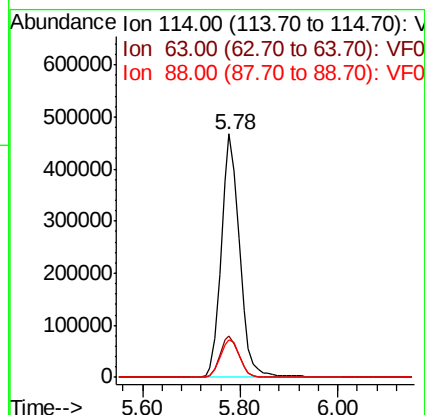
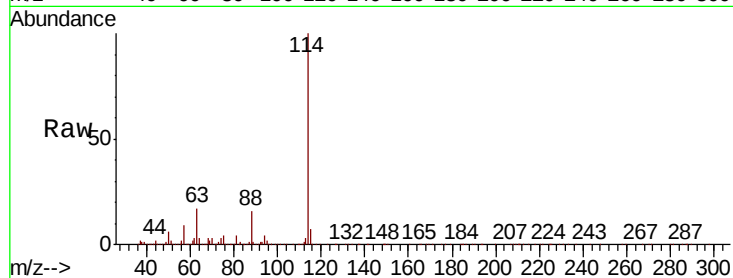




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 5.78 min Scan# 532
Delta R.T. -0.01 min
Lab File: VF062688.D
Acq: 21 May 2019 17:39

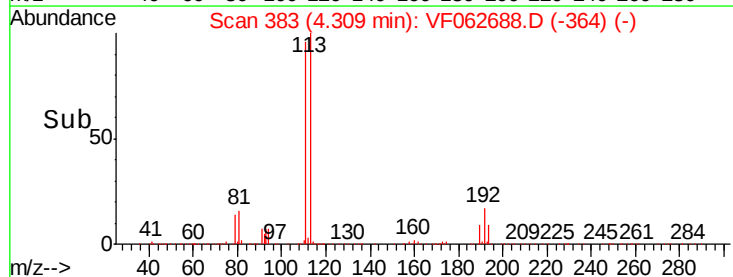
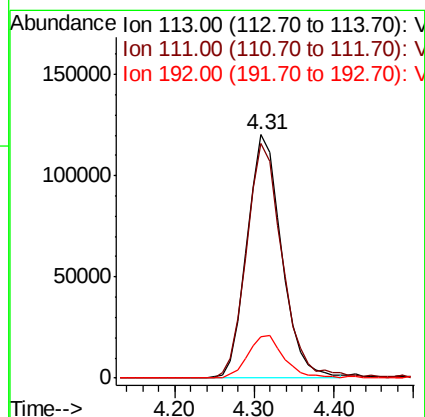
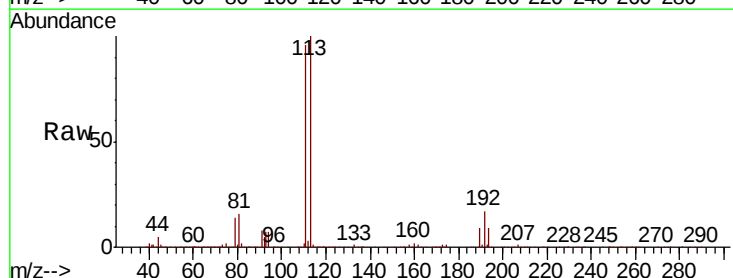
Instrument :
MSVOA_F
ClientSampleId :

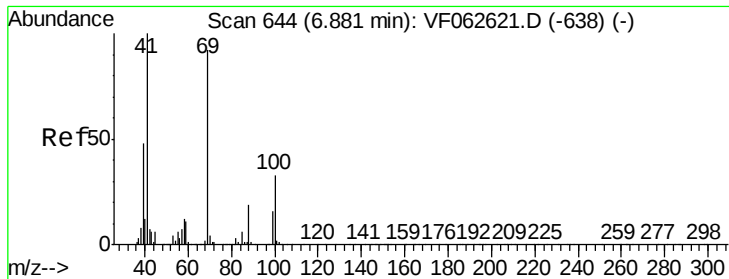
Tot Ion:114 Resp: 1228228
Ion Ratio Lower Upper
114 100
63 16.9 0.0 35.4
88 15.5 0.0 32.4



#35
Dibromofluoromethane
Concen: 38.306 ug/l
RT: 4.31 min Scan# 383
Delta R.T. -0.01 min
Lab File: VF062688.D
Acq: 21 May 2019 17:39

Tgt Ion:113 Resp: 360019
Ion Ratio Lower Upper
113 100
111 96.2 79.4 119.2
192 16.8 13.4 20.2





#49

1,4-Dioxane

Concen: 5.968 ug/l

RT: 6.85 min Scan# 641

Delta R.T. -0.03 min

Lab File: VF062688.D

Acq: 21 May 2019 17:39

Instrument :
MSVOA_F
ClientSampleId :

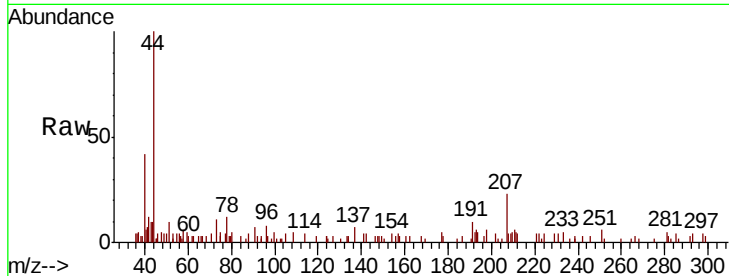
Tot Ion: 88 Resp: 266

Ion Ratio Lower Upper

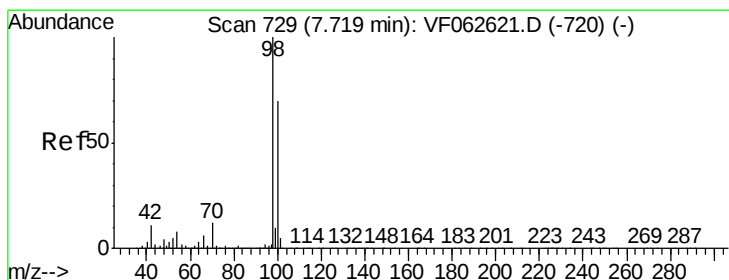
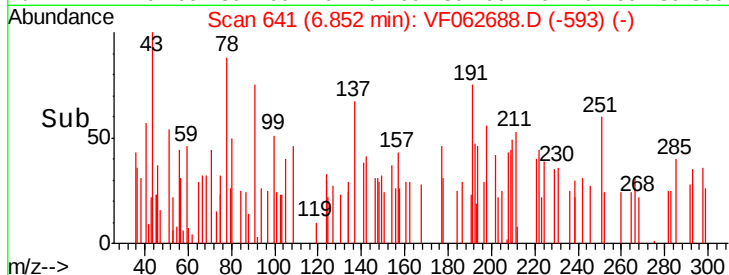
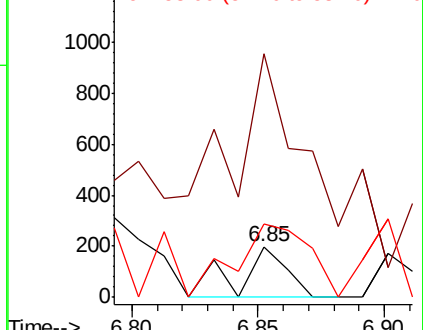
88 100

43 484.3 30.0 45.0#

58 145.7 51.1 76.7#



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: 32.330 ug/l

RT: 7.71 min Scan# 728

Delta R.T. -0.01 min

Lab File: VF062688.D

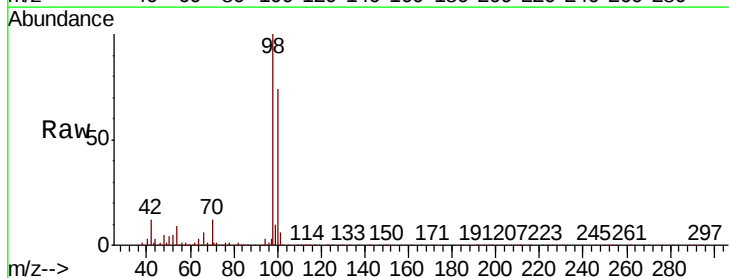
Acq: 21 May 2019 17:39

Tgt Ion: 98 Resp: 725471

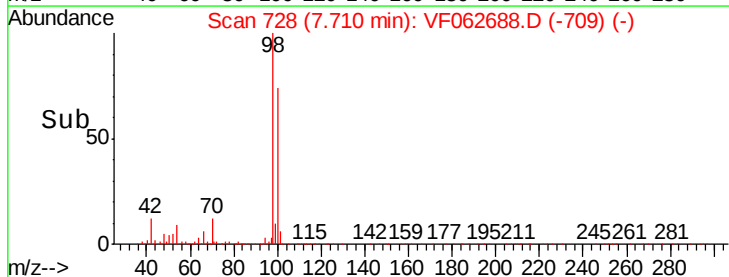
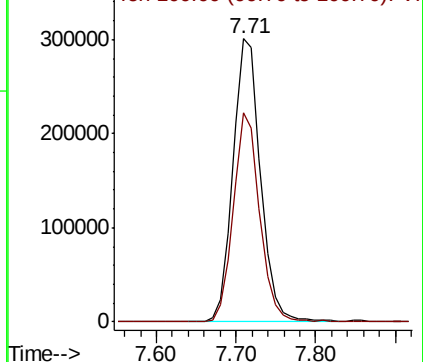
Ion Ratio Lower Upper

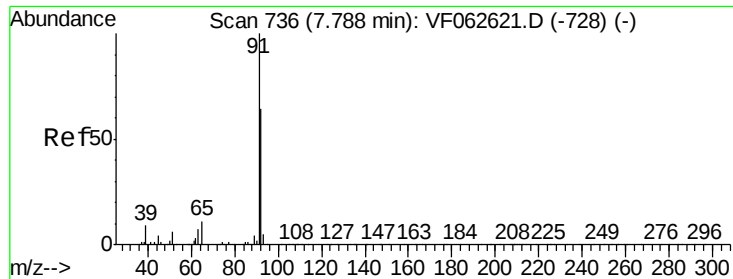
98 100

100 74.0 56.2 84.2



Abundance Ion 98.00 (97.70 to 98.70): VF0
Ion 100.00 (99.70 to 100.70): VF0





#52

Toluene

Concen: 1.381 ug/l

RT: 7.79 min Scan# 736

Delta R.T. 0.00 min

Lab File: VF062688.D

Acq: 21 May 2019 17:39

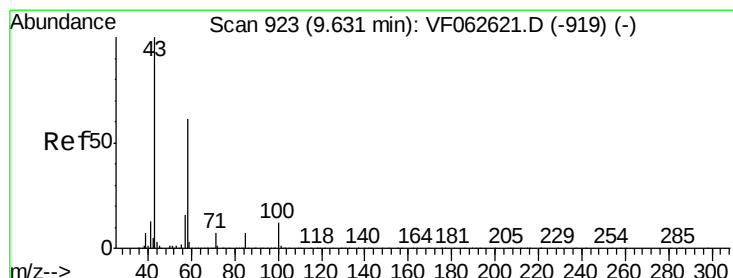
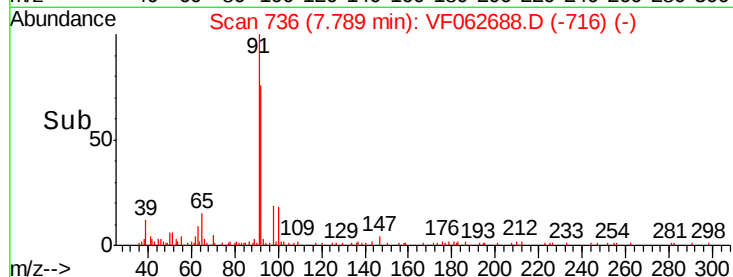
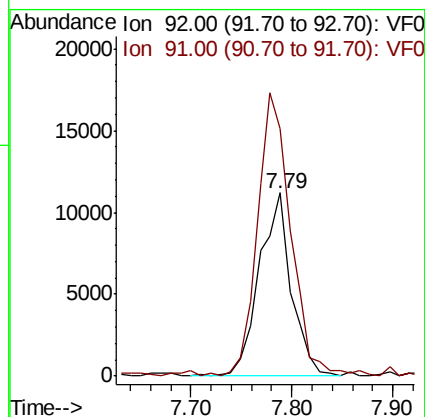
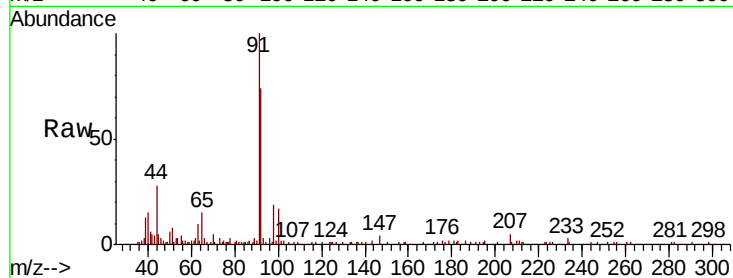
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 92 Resp: 24830

Ion Ratio Lower Upper

92 100

91 135.0 125.4 188.0



#59

2-Hexanone

Concen: Below Cal

RT: 9.63 min Scan# 923

Delta R.T. 0.00 min

Lab File: VF062688.D

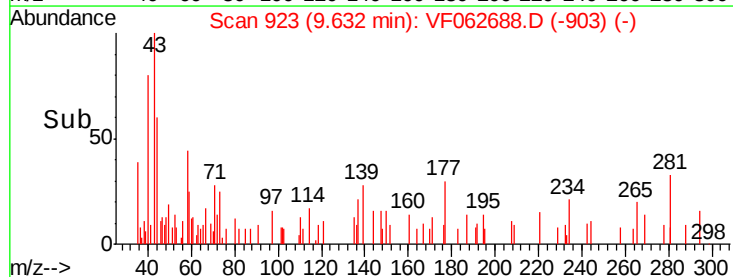
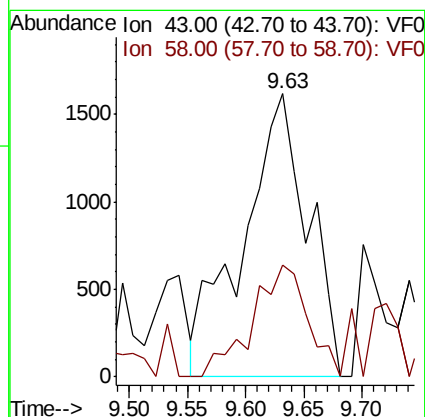
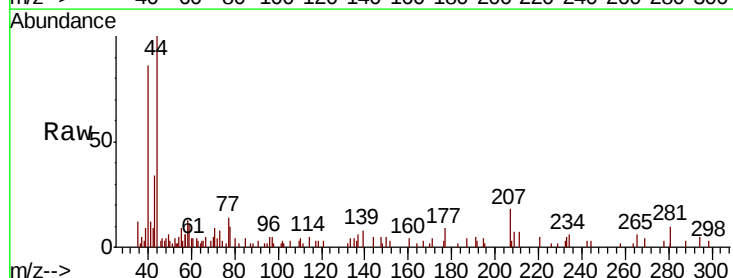
Acq: 21 May 2019 17:39

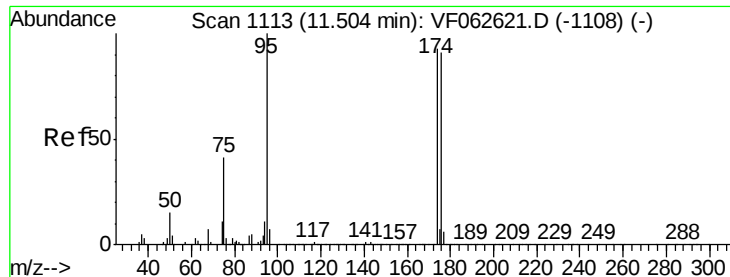
Tgt Ion: 43 Resp: 6254

Ion Ratio Lower Upper

43 100

58 39.3 28.1 84.4





#62

4-Bromofluorobenzene

Concen: 30.707 ug/l

RT: 11.49 min Scan# 1112

Delta R.T. -0.01 min

Lab File: VF062688.D

Acq: 21 May 2019 17:39

Instrument :

MSVOA_F

ClientSampleId :

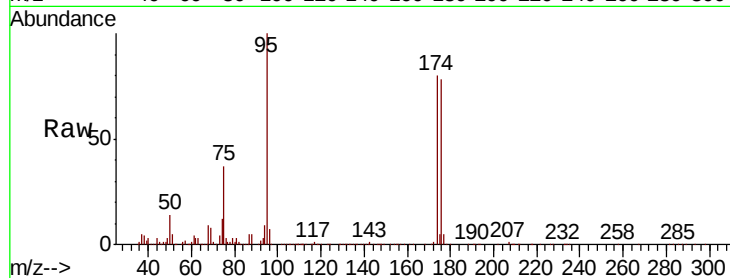
Tot Ion: 95 Resp: 261339

Ion Ratio Lower Upper

95 100

174 79.7 0.0 185.6

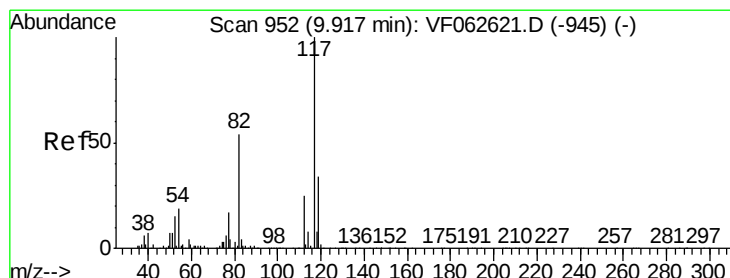
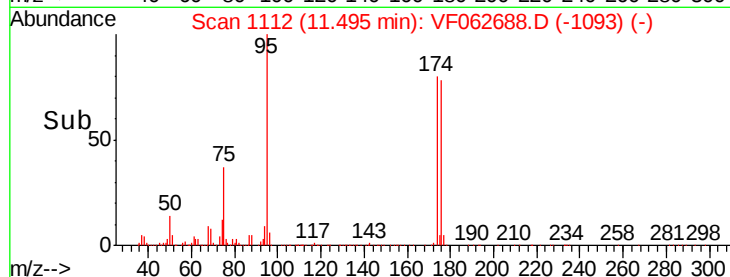
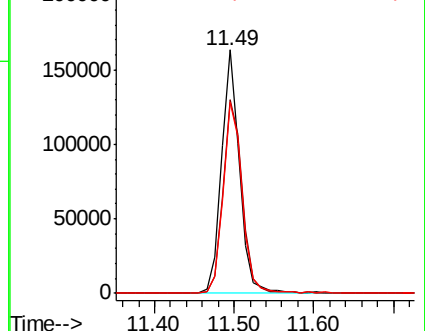
176 78.4 0.0 182.4



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: 9.91 min Scan# 951

Delta R.T. -0.01 min

Lab File: VF062688.D

Acq: 21 May 2019 17:39

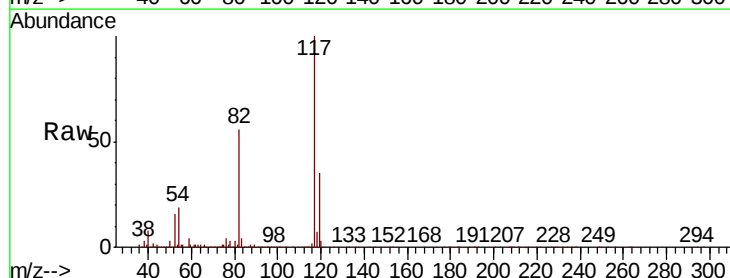
Tgt Ion: 117 Resp: 855469

Ion Ratio Lower Upper

117 100

82 55.5 43.3 64.9

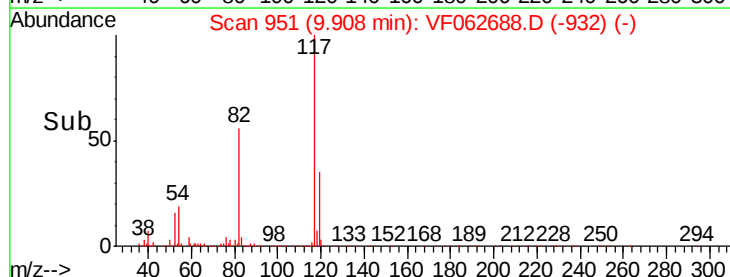
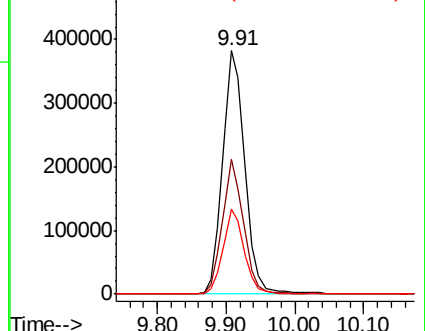
119 35.1 27.4 41.0

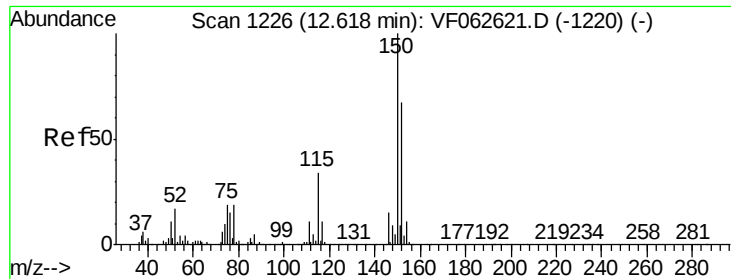


Abundance Ion 117.00 (116.70 to 117.70): V

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: 12.61 min Scan# 1225

Delta R.T. -0.01 min

Lab File: VF062688.D

Acq: 21 May 2019 17:39

Instrument :

MSVOA_F

ClientSampleId :

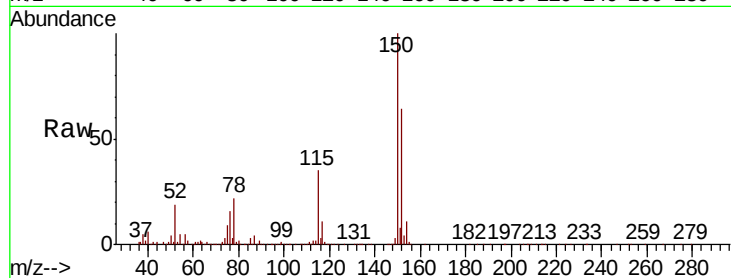
Tot Ion:152 Resp: 350439

Ion Ratio Lower Upper

152 100

115 55.2 25.2 75.6

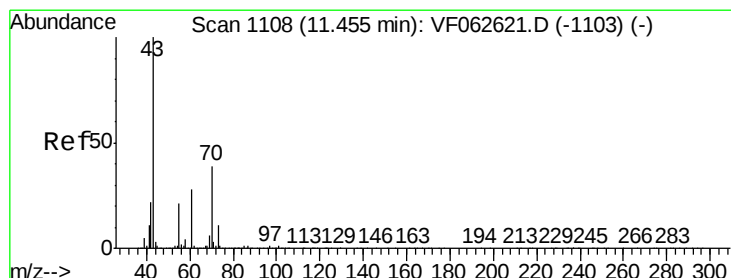
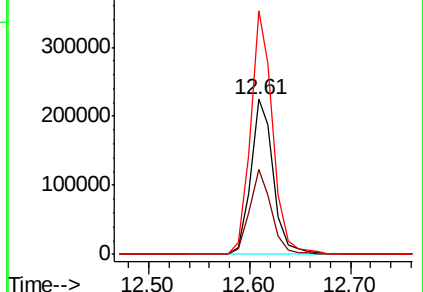
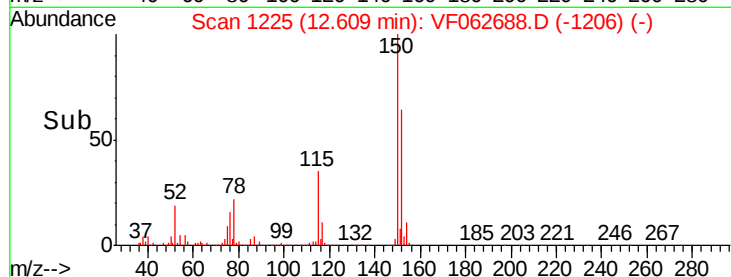
150 157.4 0.0 306.2



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-amil acetate

Concen: Below Cal

RT: 11.43 min Scan# 1105

Delta R.T. -0.03 min

Lab File: VF062688.D

Acq: 21 May 2019 17:39

Tgt Ion: 43 Resp: 962

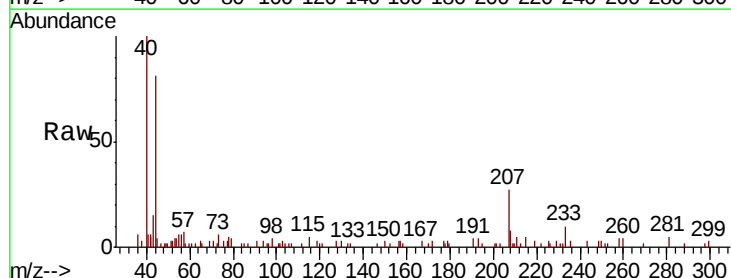
Ion Ratio Lower Upper

43 100

70 18.4 30.9 46.3#

55 41.6 17.0 25.4#

61 11.1 22.6 34.0#



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

