

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF011419\
 Data File : VF061393.D
 Acq On : 14 Jan 2019 17:04
 Operator : VA/AP
 Sample : K1139-01
 Misc : 2.72g/5mL/MSVOA-F/SOIL
 ALS Vial : 32 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :

Quant Time: Jan 14 21:42:02 2019
 Quant Method : Z:\VOASRV\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	4.85	168	145128	50.00	ug/l	-0.02
34) 1,4-Difluorobenzene	5.58	114	252241	50.00	ug/l	-0.02
63) Chlorobenzene-d5	9.77	117	136124	50.00	ug/l	-0.02
72) 1,4-Dichlorobenzene-d4	12.54	152	21863	50.00	ug/l	-0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.83	65	84066	52.04	ug/l	-0.02
Spiked Amount			Recovery	=	104.08%	
35) Dibromofluoromethane	4.09	113	103125	53.43	ug/l	-0.02
Spiked Amount			Recovery	=	106.86%	
50) Toluene-d8	7.54	98	196866	34.47	ug/l	-0.03
Spiked Amount			Recovery	=	68.94%	
62) 4-Bromofluorobenzene	11.40	95	40217	16.13	ug/l	-0.01
Spiked Amount			Recovery	=	32.26%	

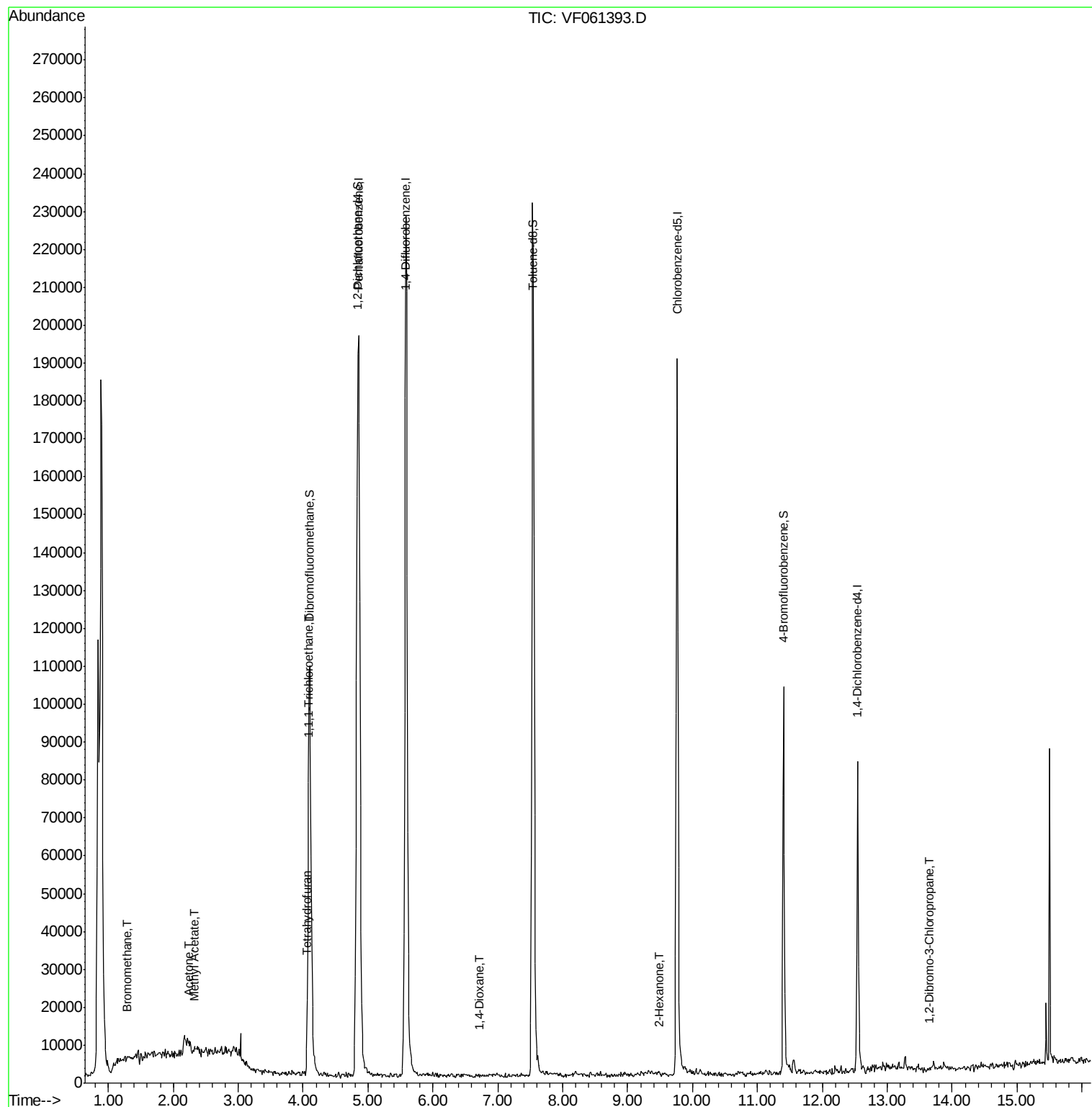
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.30	94	731	3.283	ug/l #	6
13) Acrolein	1.91	56	343	Below Cal		86
16) Acetone	2.24	43	5113	13.607	ug/l	93
18) Methyl Acetate	2.33	43	1533	2.074	ug/l #	65
29) Tetrahydrofuran	4.06	42	435	1.720	ug/l #	55
32) 1,1,1-Trichloroethane	4.07	97	3768	1.178	ug/l	88
49) 1,4-Dioxane	6.71	88	61	10.517	ug/l #	20
59) 2-Hexanone	9.49	43	1052	1.389	ug/l	75
92) 1,2-Dibromo-3-Chloropropan	13.66	75	60	1.164	ug/l #	1

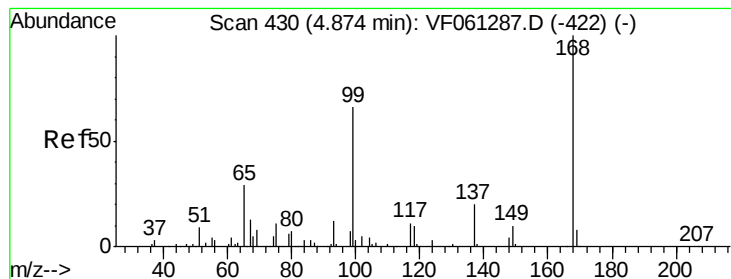
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Wed Jan 09 07:13:51 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.85 min Scan# 428

Delta R.T. -0.02 min

Lab File: VF061393.D

Acq: 14 Jan 2019 17:04

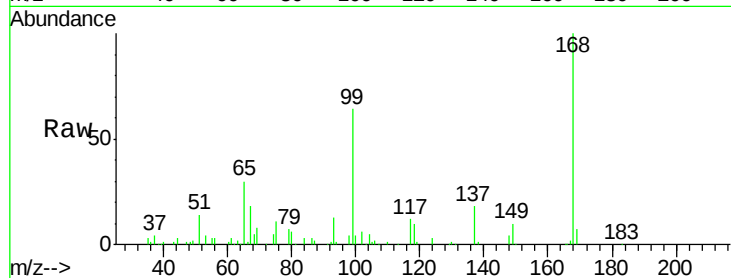
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:168 Resp: 145128

Ion Ratio Lower Upper

168 100

99 63.9 52.7 79.1



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.85

50000

40000

30000

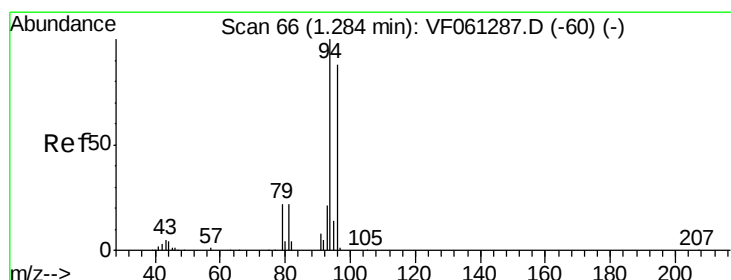
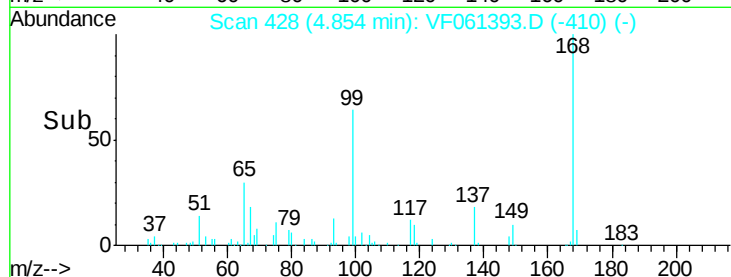
20000

10000

0

4.70 4.80 4.90 5.00

Time-->



#5

Bromomethane

Concen: 3.283 ug/l

RT: 1.30 min Scan# 68

Delta R.T. 0.02 min

Lab File: VF061393.D

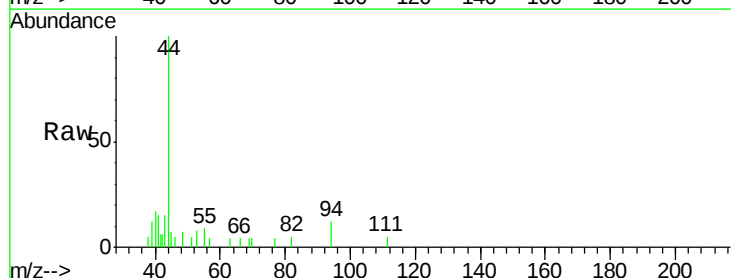
Acq: 14 Jan 2019 17:04

Tgt Ion: 94 Resp: 731

Ion Ratio Lower Upper

94 100

96 0.0 70.2 105.4#



Abundance Ion 94.00 (93.70 to 94.70): VF0

Ion 96.00 (95.70 to 96.70): VF0

1.30

300

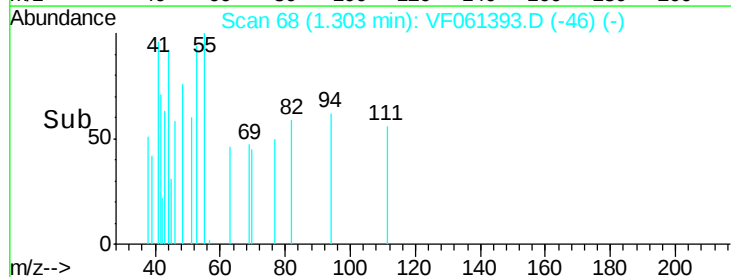
200

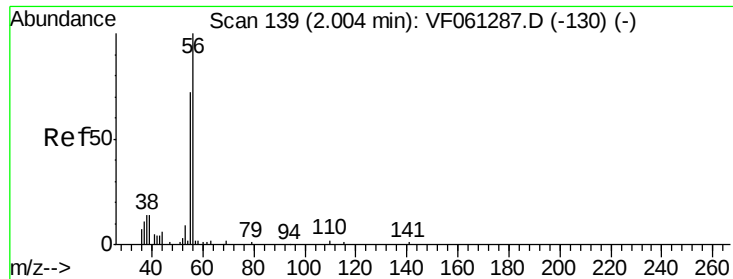
100

0

1.25 1.30 1.35

Time-->





#13

Acrolein

Concen: Below Cal

RT: 1.91 min Scan# 130

Delta R.T. -0.09 min

Lab File: VF061393.D

Acq: 14 Jan 2019 17:04

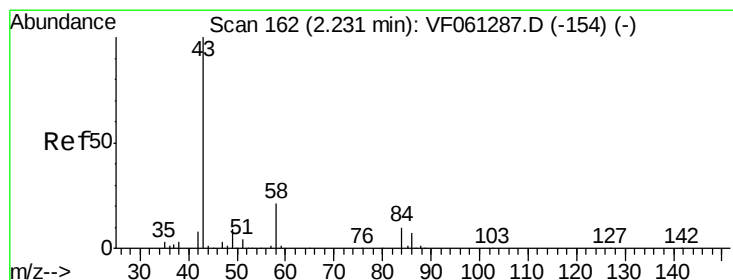
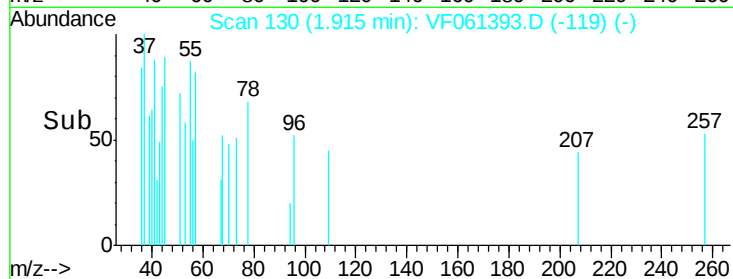
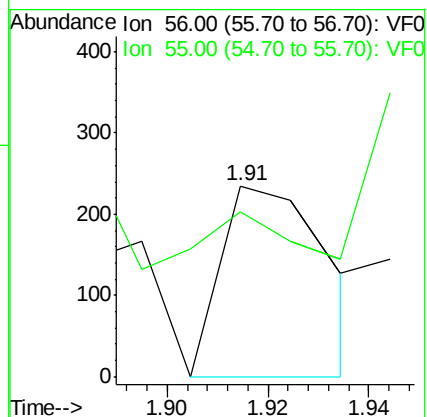
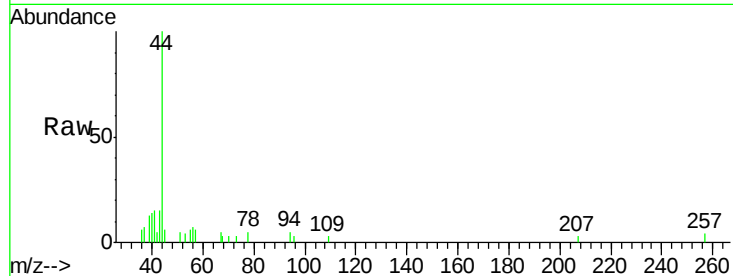
Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 56 Resp: 343

Ion Ratio Lower Upper

56 100

55 86.4 59.4 89.0



#16

Acetone

Concen: 13.607 ug/l

RT: 2.24 min Scan# 163

Delta R.T. 0.01 min

Lab File: VF061393.D

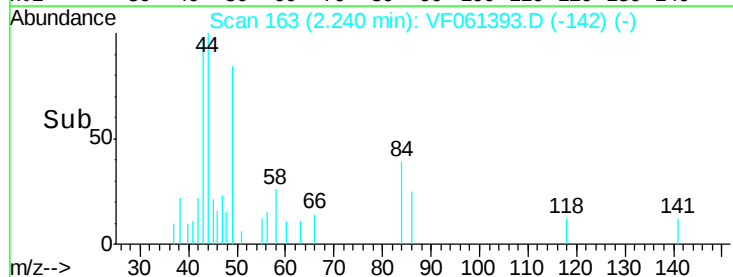
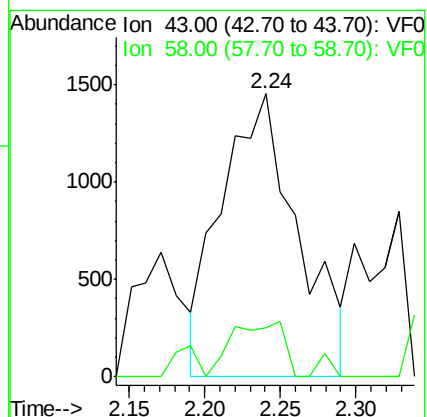
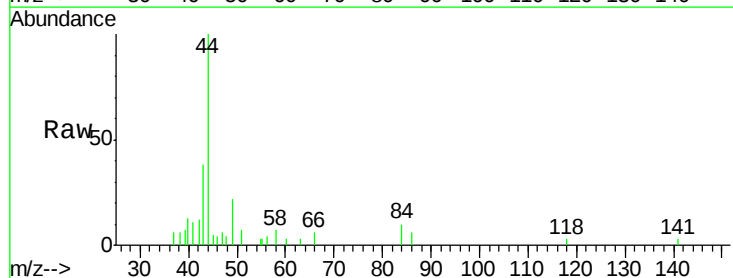
Acq: 14 Jan 2019 17:04

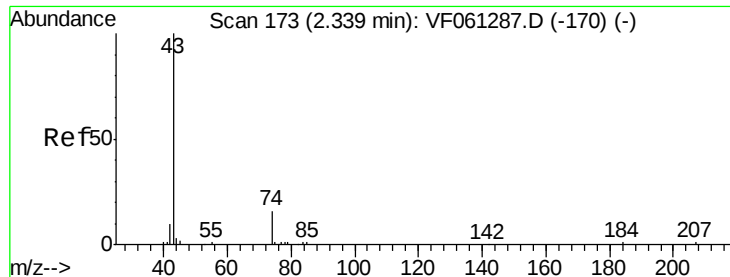
Tgt Ion: 43 Resp: 5113

Ion Ratio Lower Upper

43 100

58 17.5 16.6 25.0

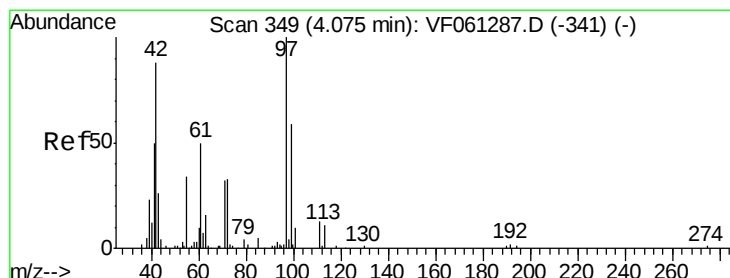
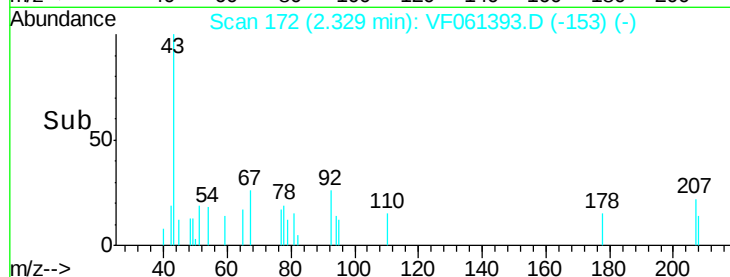
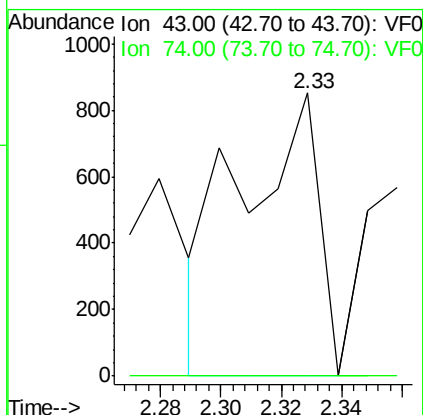
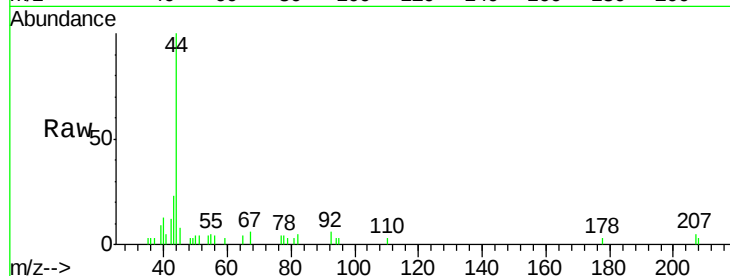




#18
Methyl Acetate
Concen: 2.074 ug/l
RT: 2.33 min Scan# 172
Delta R.T. -0.01 min
Lab File: VF061393.D
Acq: 14 Jan 2019 17:04

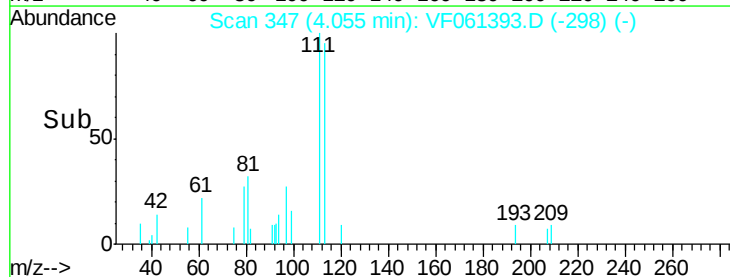
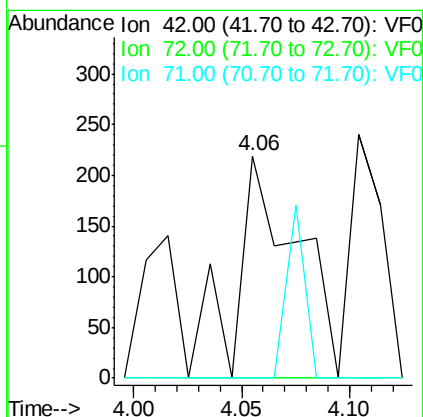
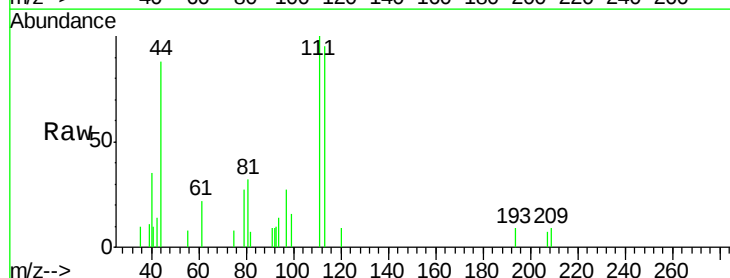
Instrument :
MSVOA_F
ClientSampled :

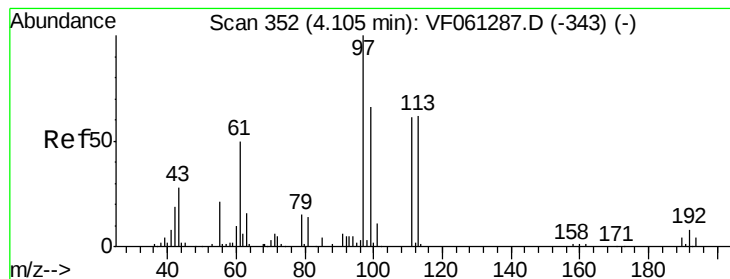
Tot Ion: 43 Resp: 1533
Ion Ratio Lower Upper
43 100
74 0.0 11.6 17.4#



#29
Tetrahydrofuran
Concen: 1.720 ug/l
RT: 4.06 min Scan# 347
Delta R.T. -0.02 min
Lab File: VF061393.D
Acq: 14 Jan 2019 17:04

Tgt Ion: 42 Resp: 435
Ion Ratio Lower Upper
42 100
72 0.0 32.3 48.5#
71 23.2 29.5 44.3#





#32

1,1,1-Trichloroethane

Concen: 1.178 ug/l

RT: 4.07 min Scan# 349

Delta R.T. -0.03 min

Lab File: VF061393.D

Acq: 14 Jan 2019 17:04

Instrument :

MSVOA_F

ClientSampled :

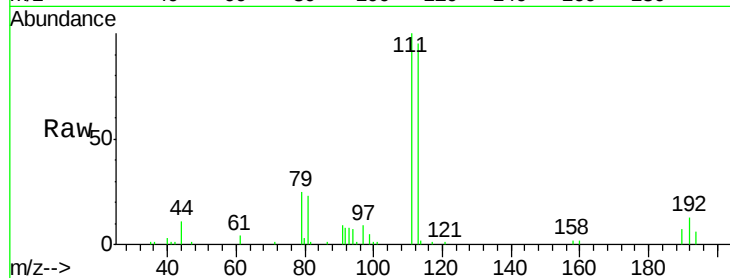
Tot Ion: 97 Resp: 3768

Ion Ratio Lower Upper

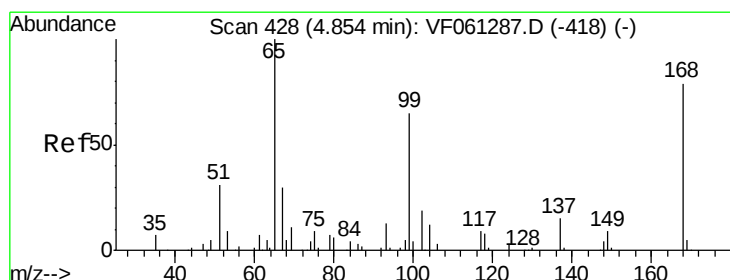
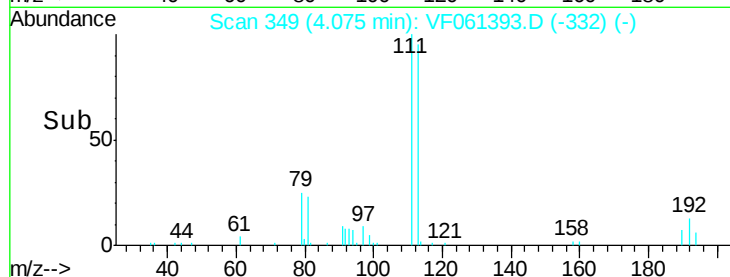
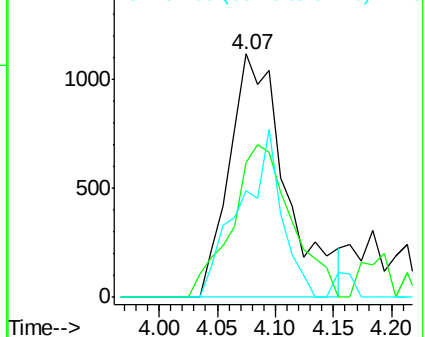
97 100

99 55.6 52.7 79.1

61 43.8 40.8 61.2



Abundance Ion 97.00 (96.70 to 97.70): VF0
Ion 99.00 (98.70 to 99.70): VF0
Ion 61.00 (60.70 to 61.70): VF0



#33

1,2-Dichloroethane-d4

Concen: 52.042 ug/l

RT: 4.83 min Scan# 426

Delta R.T. -0.02 min

Lab File: VF061393.D

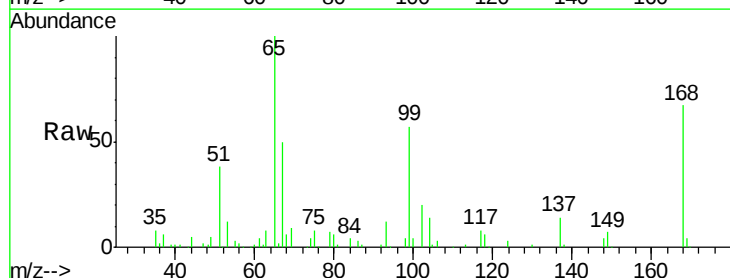
Acq: 14 Jan 2019 17:04

Tgt Ion: 65 Resp: 84066

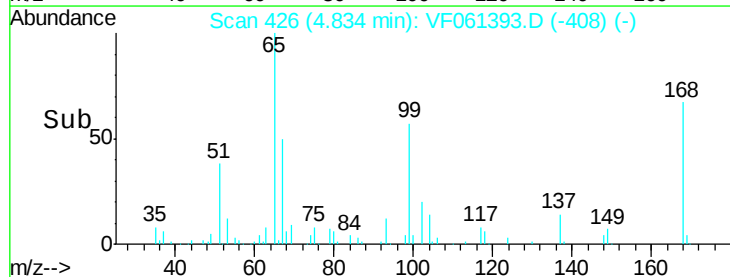
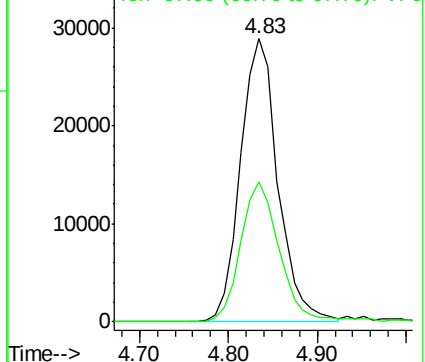
Ion Ratio Lower Upper

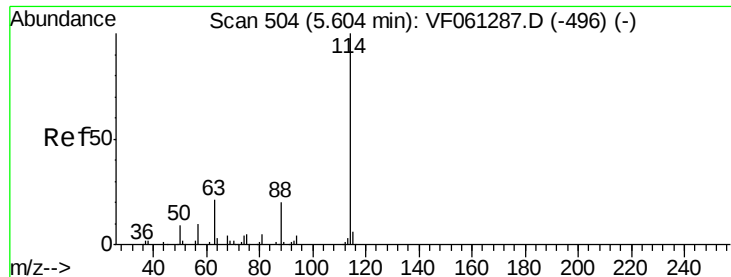
65 100

67 49.6 0.0 98.2



Abundance Ion 65.00 (64.70 to 65.70): VF0
Ion 67.00 (66.70 to 67.70): VF0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.58 min Scan# 502

Delta R.T. -0.02 min

Lab File: VF061393.D

Acq: 14 Jan 2019 17:04

Instrument :

MSVOA_F

ClientSampleId :

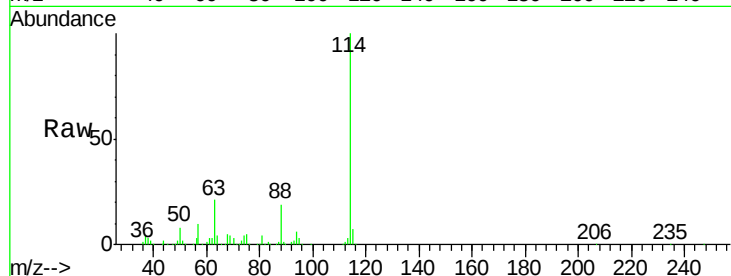
Tot Ion:114 Resp: 252241

Ion Ratio Lower Upper

114 100

63 21.4 0.0 42.8

88 19.5 0.0 40.0



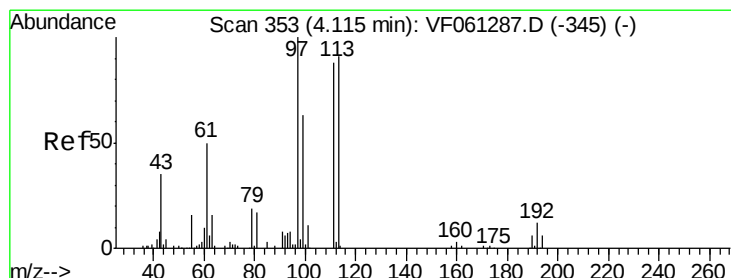
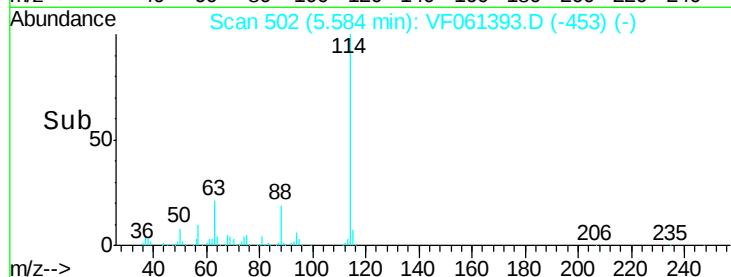
Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VF0

Ion 88.00 (87.70 to 88.70): VF0

5.58

Time-->



#35

Dibromofluoromethane

Concen: 53.431 ug/l

RT: 4.09 min Scan# 351

Delta R.T. -0.02 min

Lab File: VF061393.D

Acq: 14 Jan 2019 17:04

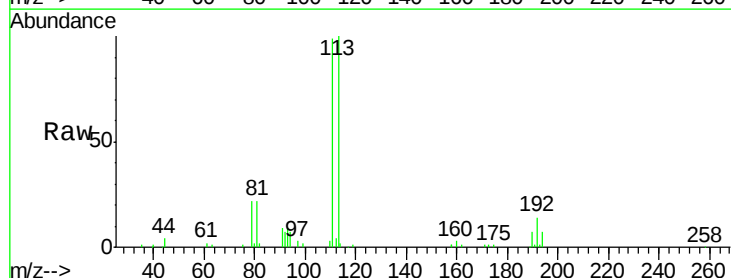
Tgt Ion:113 Resp: 103125

Ion Ratio Lower Upper

113 100

111 98.7 78.0 117.0

192 14.1 10.6 16.0



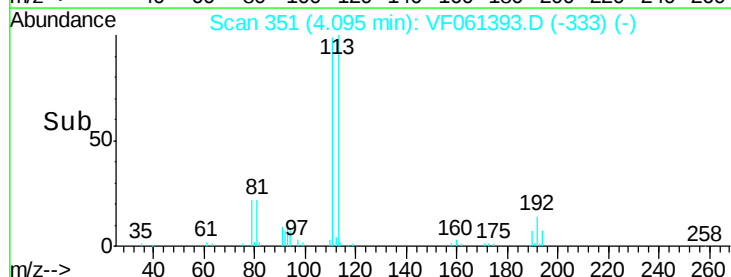
Abundance Ion 113.00 (112.70 to 113.70): V

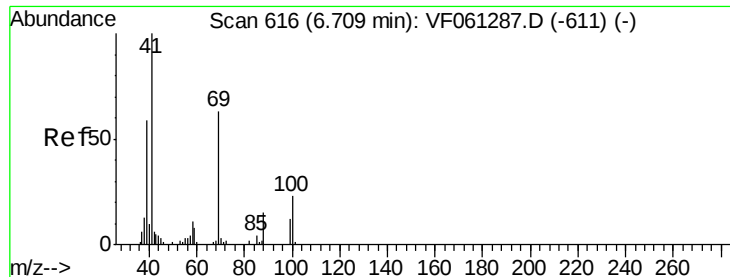
Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V

4.09

Time-->





#49

1,4-Dioxane

Concen: 10.517 ug/l

RT: 6.71 min Scan# 616

Delta R.T. -0.00 min

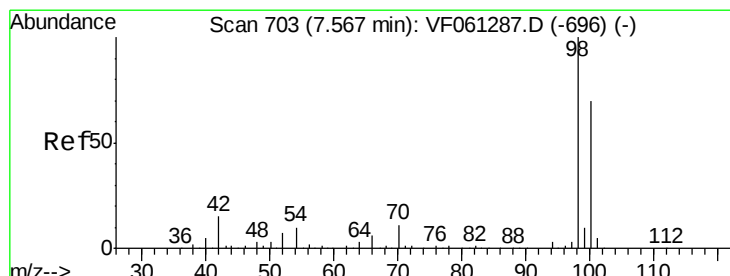
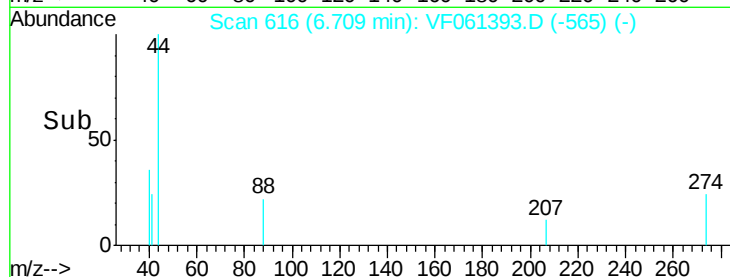
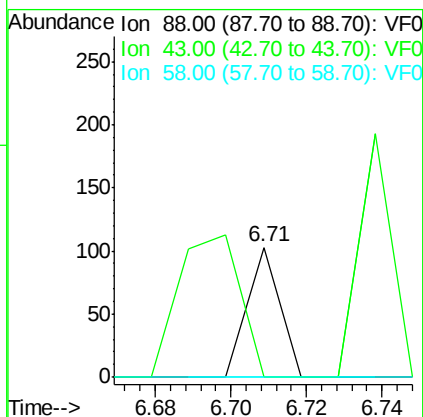
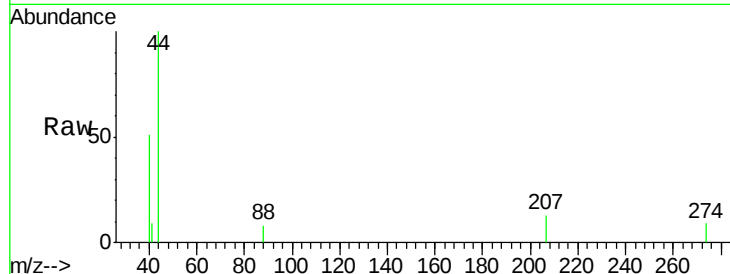
Lab File: VF061393.D

Acq: 14 Jan 2019 17:04

Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 88 Resp: 61

Ion	Ratio	Lower	Upper
88	100		
43	0.0	38.5	57.7#
58	0.0	57.0	85.4#



#50

Toluene-d8

Concen: 34.468 ug/l

RT: 7.54 min Scan# 700

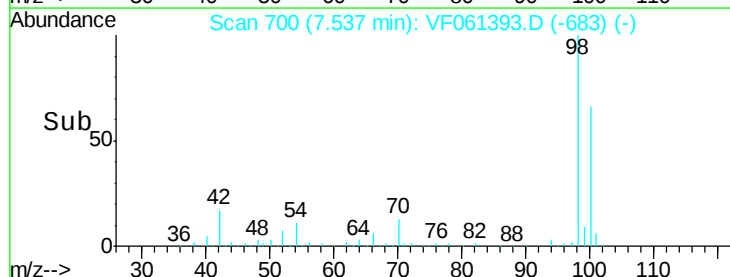
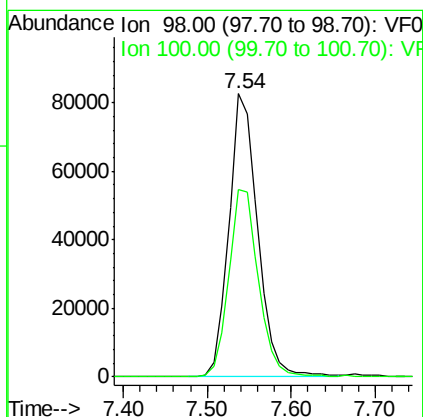
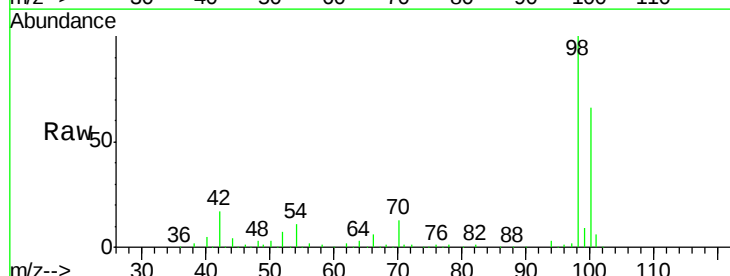
Delta R.T. -0.03 min

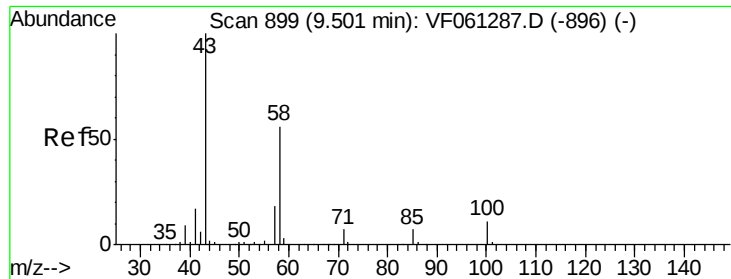
Lab File: VF061393.D

Acq: 14 Jan 2019 17:04

Tgt Ion: 98 Resp: 196866

Ion	Ratio	Lower	Upper
98	100		
100	66.3	55.6	83.4

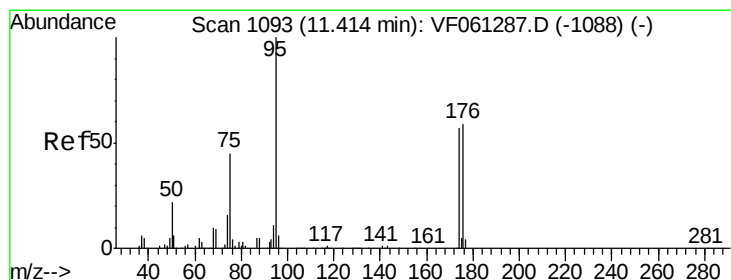
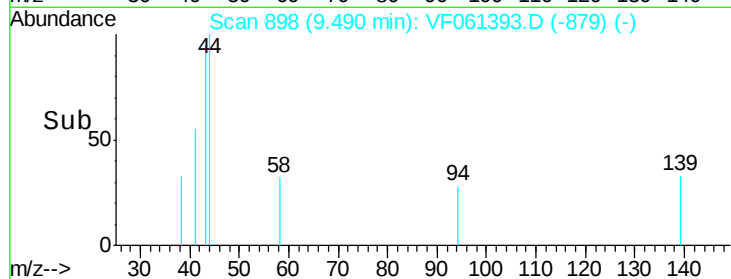
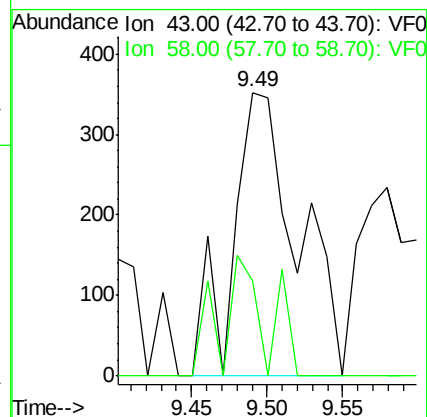
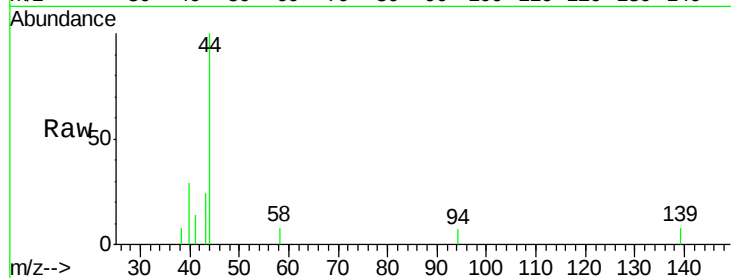




#59
2-Hexanone
Concen: 1.389 ug/l
RT: 9.49 min Scan# 898
Delta R.T. -0.01 min
Lab File: VF061393.D
Acq: 14 Jan 2019 17:04

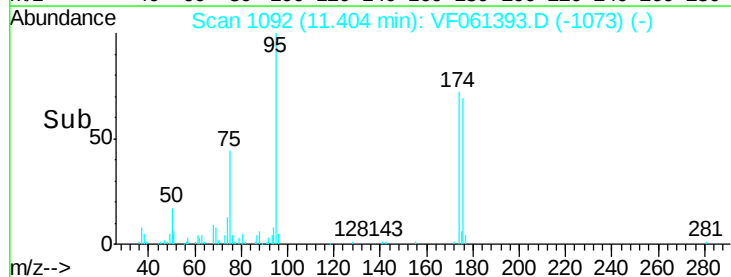
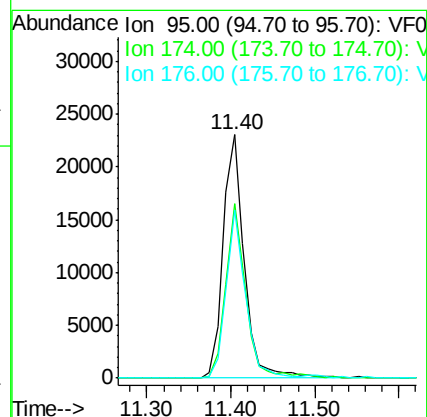
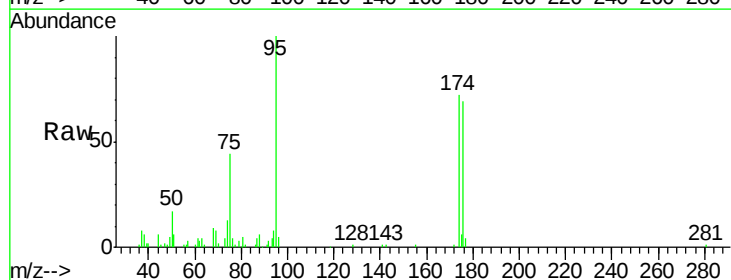
Instrument :
MSVOA_F
ClientSampleId :

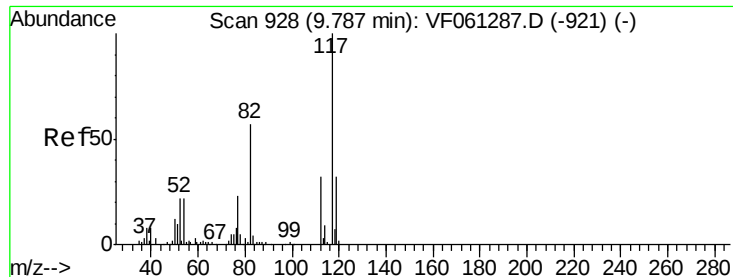
Tot Ion: 43 Resp: 1052
Ion Ratio Lower Upper
43 100
58 33.5 25.6 76.8



#62
4-Bromofluorobenzene
Concen: 16.126 ug/l
RT: 11.40 min Scan# 1092
Delta R.T. -0.01 min
Lab File: VF061393.D
Acq: 14 Jan 2019 17:04

Tgt Ion: 95 Resp: 40217
Ion Ratio Lower Upper
95 100
174 71.6 0.0 114.2
176 69.0 0.0 117.8

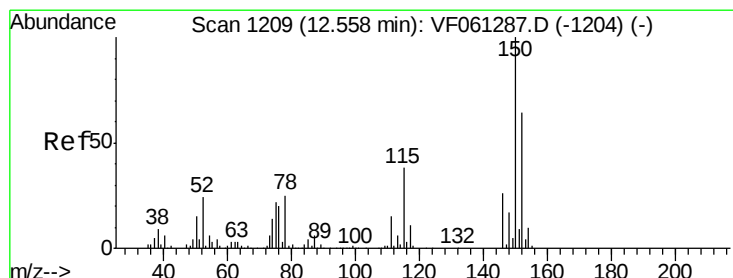
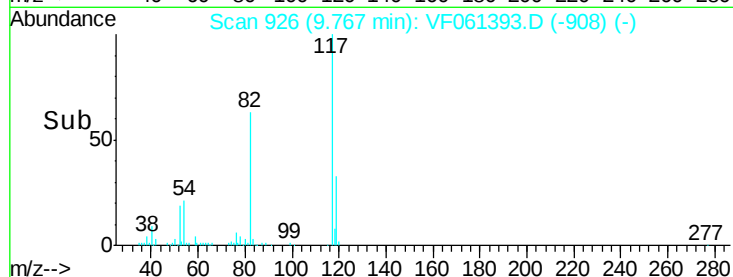
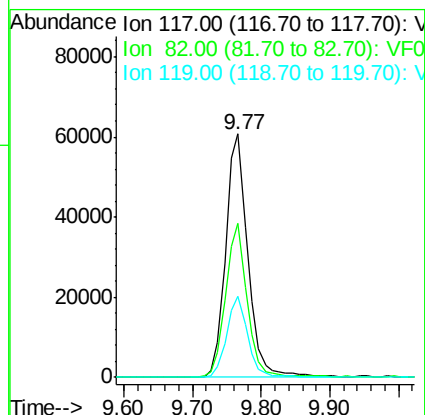
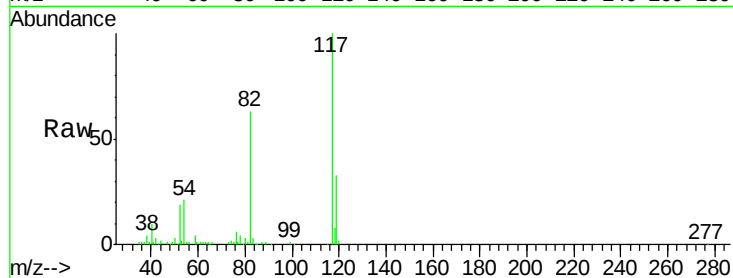




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.77 min Scan# 926
Delta R.T. -0.02 min
Lab File: VF061393.D
Acq: 14 Jan 2019 17:04

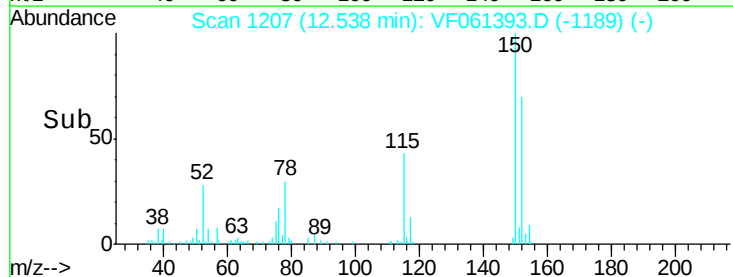
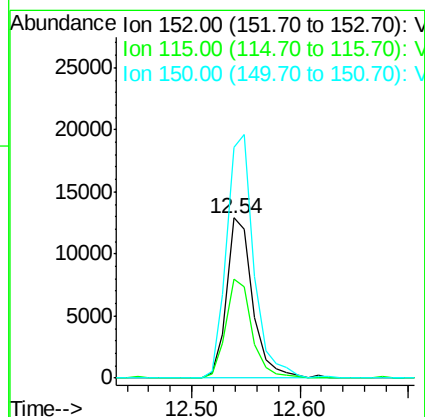
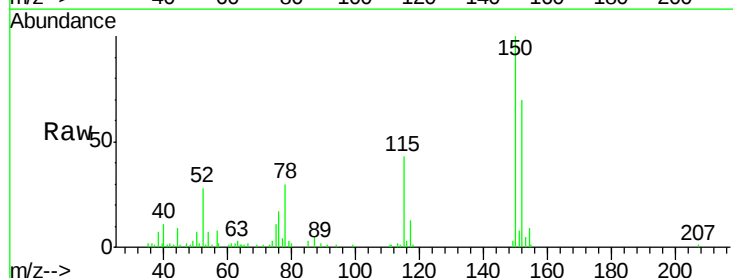
Instrument :
MSVOA_F
ClientSampleId :

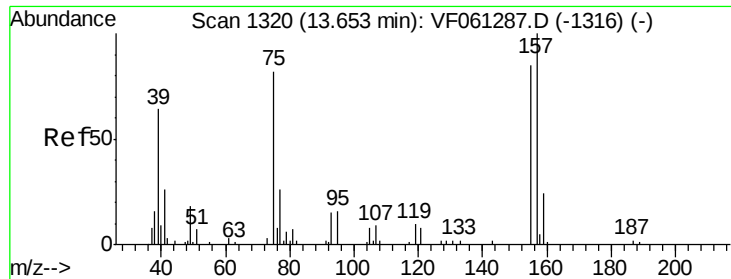
Tot Ion:117 Resp: 136124
Ion Ratio Lower Upper
117 100
82 63.3 45.3 67.9
119 33.3 25.4 38.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.54 min Scan# 1207
Delta R.T. -0.02 min
Lab File: VF061393.D
Acq: 14 Jan 2019 17:04

Tgt Ion:152 Resp: 21863
Ion Ratio Lower Upper
152 100
115 61.7 29.6 88.9
150 143.8 0.0 315.4





#92

1,2-Dibromo-3-Chloropropane

Concen: 1.164 ug/l

RT: 13.66 min Scan# 1321

Delta R.T. 0.01 min

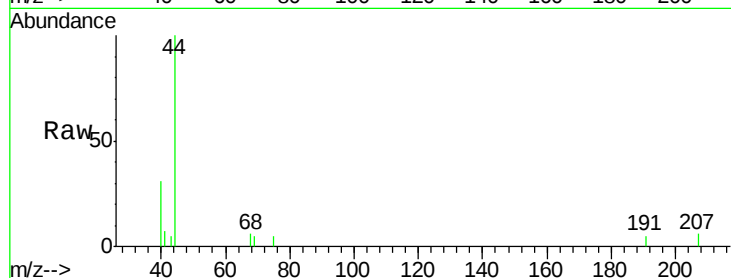
Lab File: VF061393.D

Acq: 14 Jan 2019 17:04

Instrument :

MSVOA_F

ClientSampleId :



Tot Ion:	75	Resp:	60
Ion Ratio	Lower	Upper	
75	100		
155	0.0	51.3	154.0#
157	0.0	60.7	182.0#

