

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF062718\
 Data File : VF059351.D
 Acq On : 27 Jun 2018 20:50
 Operator : VA/AP
 Sample : J3677-11
 Misc : 5.03g/5mL/MSVOA-F/SOIL
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :

Quant Time: Jun 28 01:45:19 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F062518S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 26 08:45:17 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.03	168	185152	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.75	114	281653	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.91	117	277532	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.62	152	162666	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.01	65	106143	44.37	ug/l	0.00
Spiked Amount			Recovery	=	88.74%	
35) Dibromofluoromethane	4.28	113	96177	46.73	ug/l	0.00
Spiked Amount			Recovery	=	93.46%	
50) Toluene-d8	7.71	98	199276	39.11	ug/l	0.00
Spiked Amount			Recovery	=	78.22%	
62) 4-Bromofluorobenzene	11.50	95	107852	37.52	ug/l	0.00
Spiked Amount			Recovery	=	75.04%	

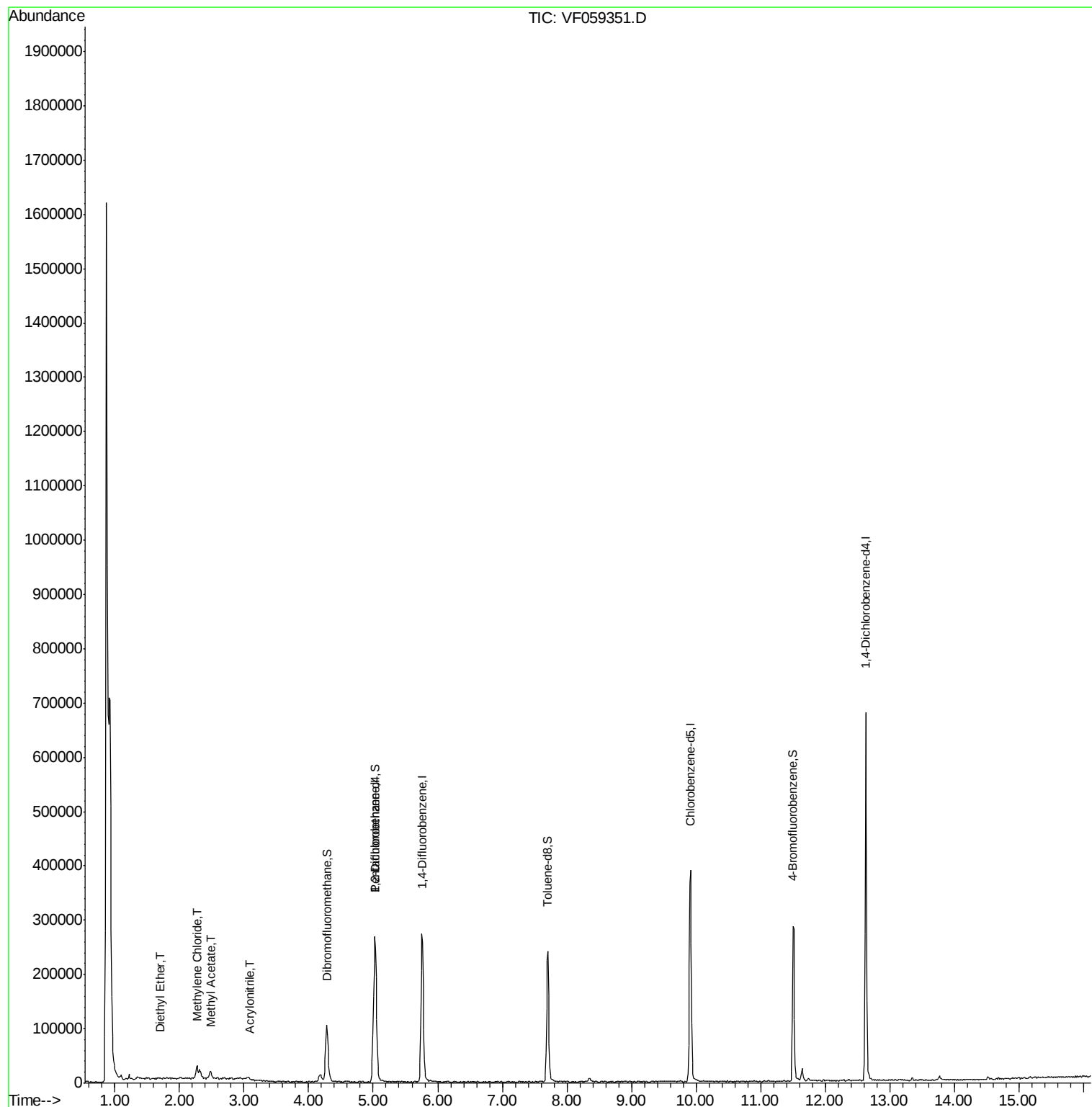
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.36	94	203	Below Cal		86
8) Diethyl Ether	1.70	74	1010	1.781	ug/l	65
13) Acrolein	1.93	56	319	Below Cal		90
15) Acrylonitrile	3.07	53	736	2.624	ug/l #	9
16) Acetone	2.32	43	3870	Below Cal	#	82
18) Methyl Acetate	2.47	43	6618	5.084	ug/l #	61
20) Methylene Chloride	2.27	84	15289	4.702	ug/l #	87
25) 2-Butanone	4.51	43	473	Below Cal	#	59
28) Bromochloromethane	4.01	49	66	Below Cal	#	6
29) Tetrahydrofuran	4.24	42	374	Below Cal	#	36
37) Ethyl Acetate	4.25	43	449	Below Cal	#	26
49) 1,4-Dioxane	7.17	88	74	Below Cal	#	20
59) 2-Hexanone	9.62	43	509	Below Cal		65
87) 1,3-Dichlorobenzene	12.56	146	191	Below Cal	#	38

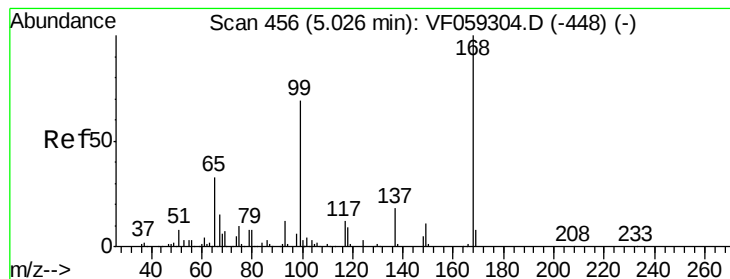
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.03 min Scan# 457

Delta R.T. 0.01 min

Lab File: VF059351.D

Acq: 27 Jun 2018 20:50

Instrument :

MSVOA_F

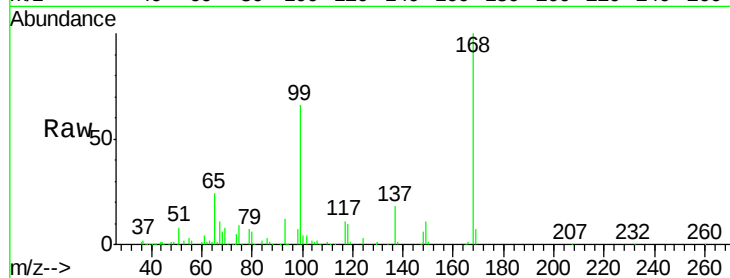
ClientSampleId :

Tot Ion:168 Resp: 185152

Ion Ratio Lower Upper

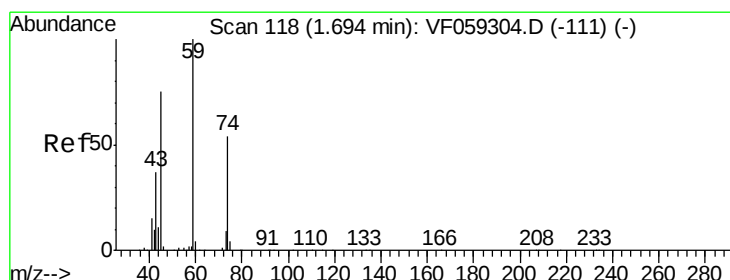
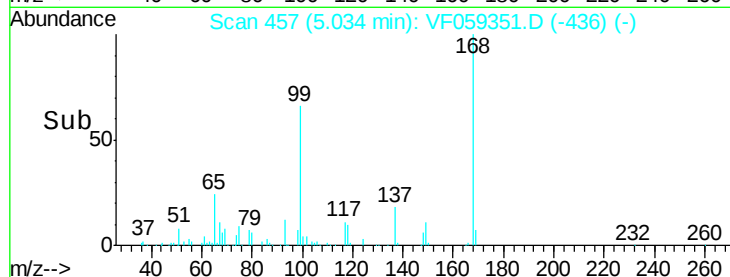
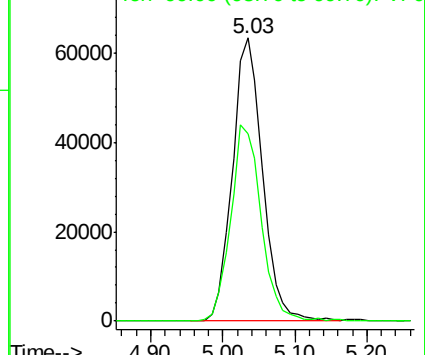
168 100

99 66.2 54.9 82.3



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0



#8

Diethyl Ether

Concen: 1.781 ug/l

RT: 1.70 min Scan# 119

Delta R.T. 0.01 min

Lab File: VF059351.D

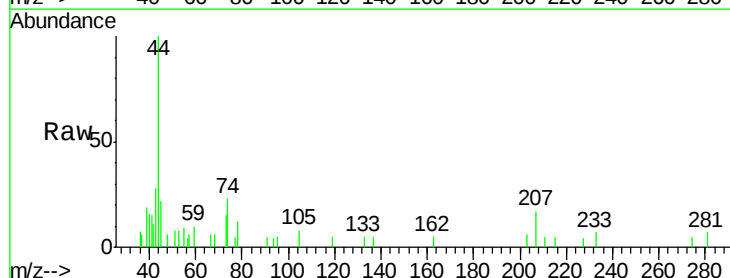
Acq: 27 Jun 2018 20:50

Tgt Ion: 74 Resp: 1010

Ion Ratio Lower Upper

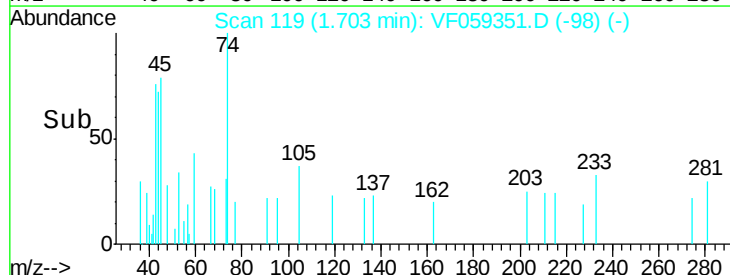
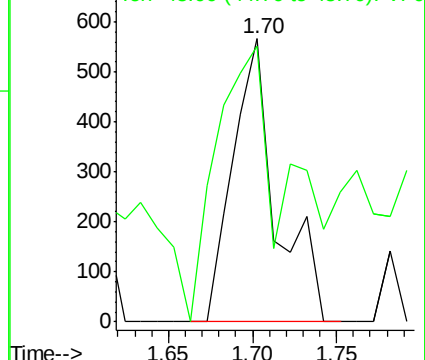
74 100

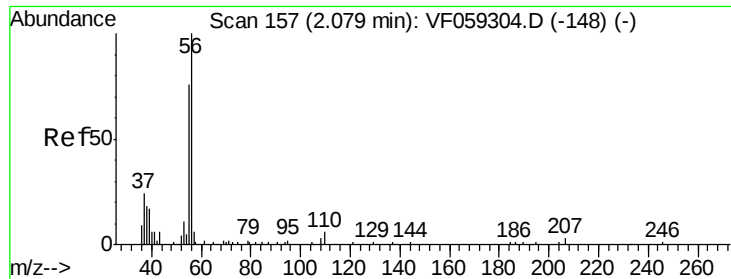
45 97.2 70.0 210.0



Abundance Ion 74.00 (73.70 to 74.70): VF0

Ion 45.00 (44.70 to 45.70): VF0





#13

Acrolein

Concen: Below Cal

RT: 1.93 min Scan# 142

Delta R.T. -0.15 min

Lab File: VF059351.D

Acq: 27 Jun 2018 20:50

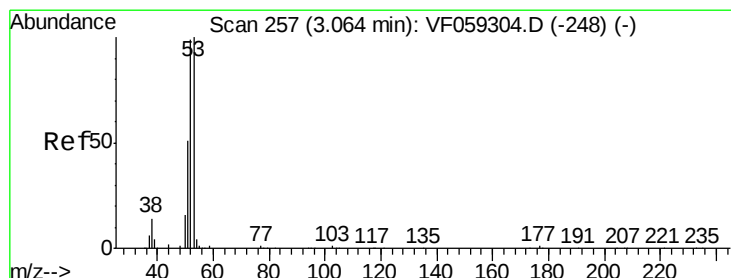
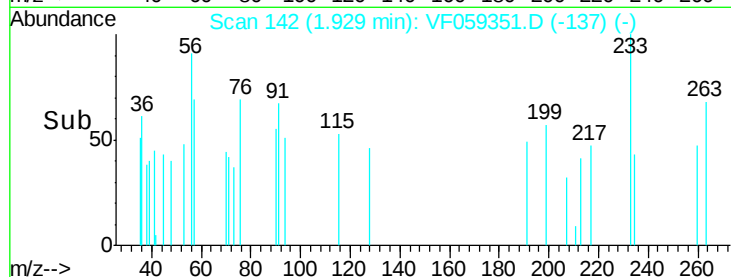
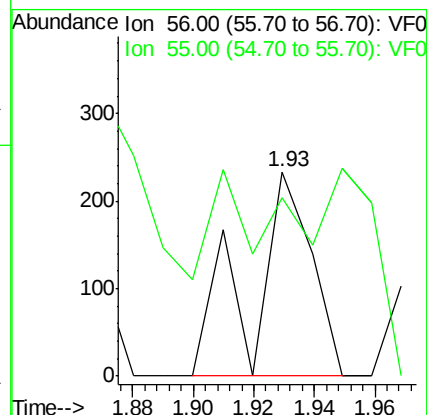
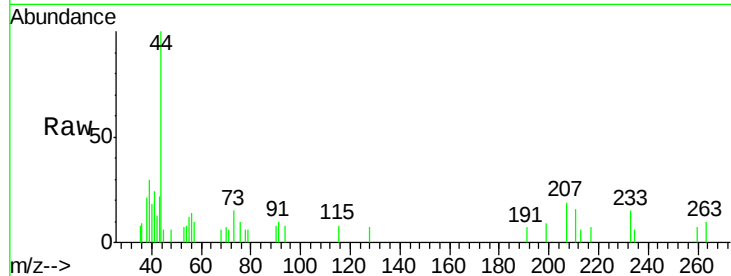
Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 56 Resp: 319

Ion Ratio Lower Upper

56 100

55 87.1 62.4 93.6



#15

Acrylonitrile

Concen: 2.624 ug/l

RT: 3.07 min Scan# 258

Delta R.T. 0.01 min

Lab File: VF059351.D

Acq: 27 Jun 2018 20:50

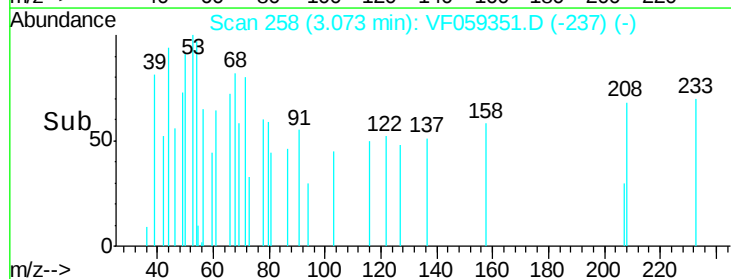
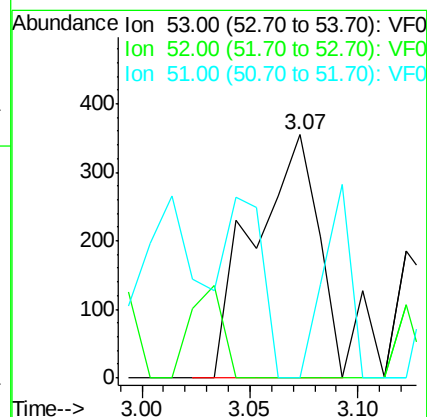
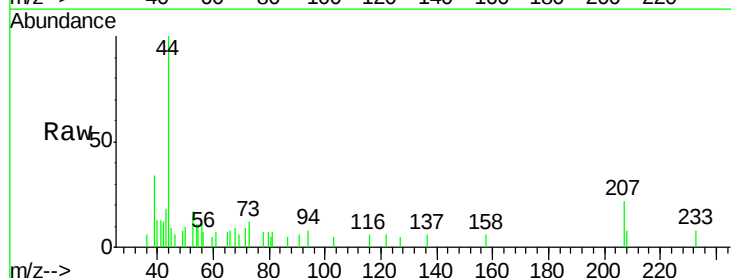
Tgt Ion: 53 Resp: 736

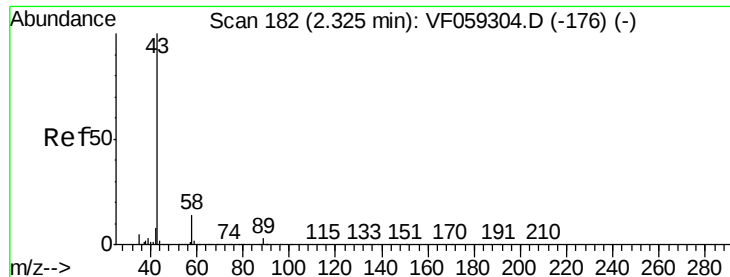
Ion Ratio Lower Upper

53 100

52 0.0 79.2 118.8#

51 0.0 40.9 61.3#





#16

Acetone

Concen: Below Cal

RT: 2.32 min Scan# 182

Delta R.T. -0.00 min

Lab File: VF059351.D

Acq: 27 Jun 2018 20:50

Instrument :

MSVOA_F

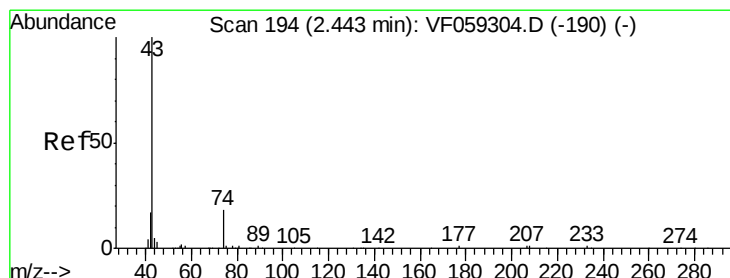
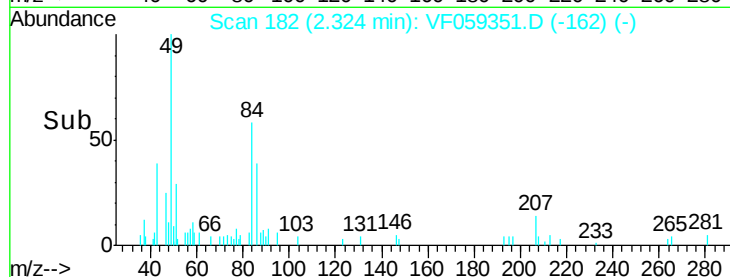
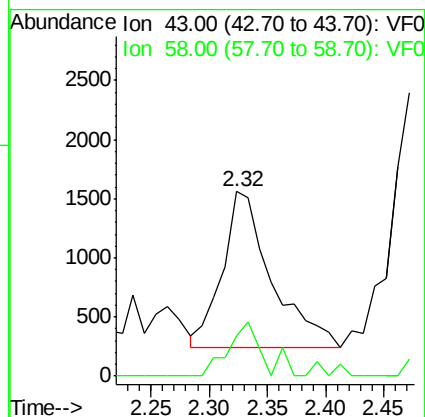
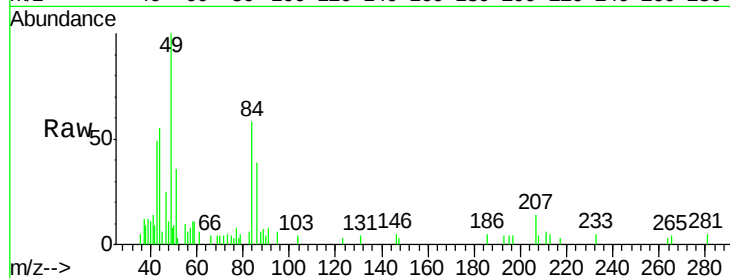
ClientSampleId :

Tot Ion: 43 Resp: 3870

Ion Ratio Lower Upper

43 100

58 21.6 11.4 17.0#



#18

Methyl Acetate

Concen: 5.084 ug/l

RT: 2.47 min Scan# 197

Delta R.T. 0.03 min

Lab File: VF059351.D

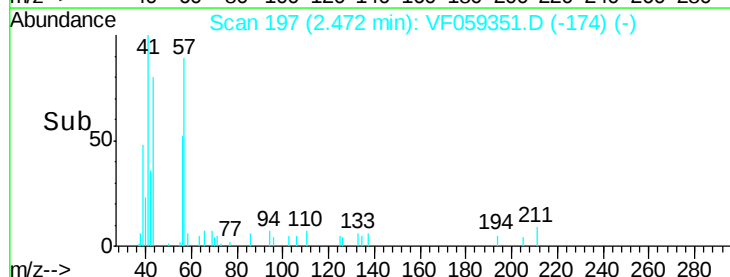
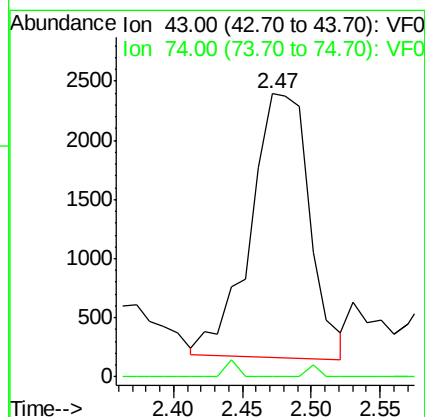
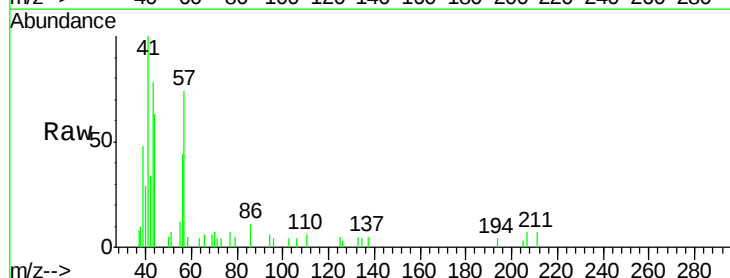
Acq: 27 Jun 2018 20:50

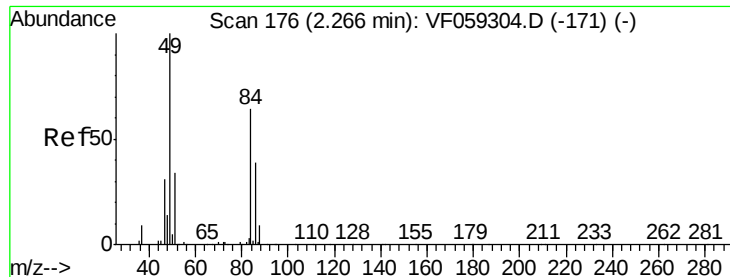
Tgt Ion: 43 Resp: 6618

Ion Ratio Lower Upper

43 100

74 0.0 13.3 19.9#

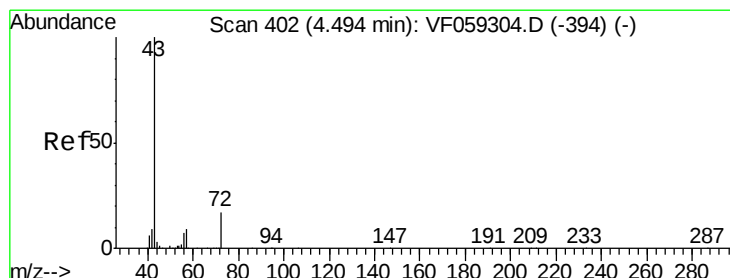
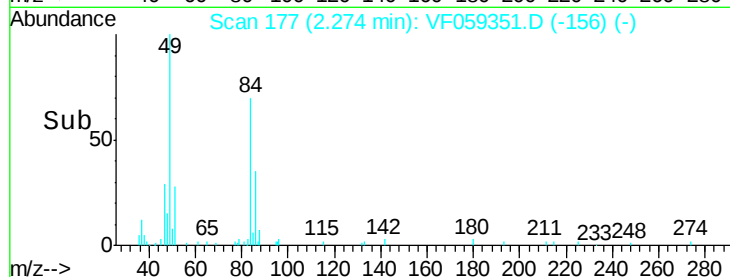
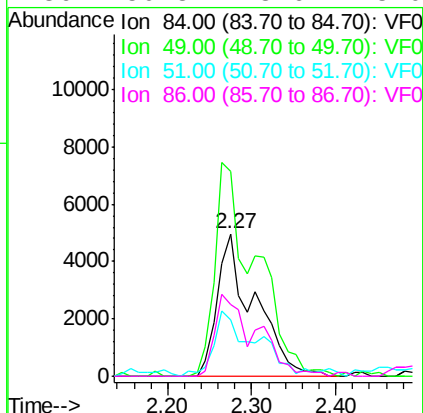
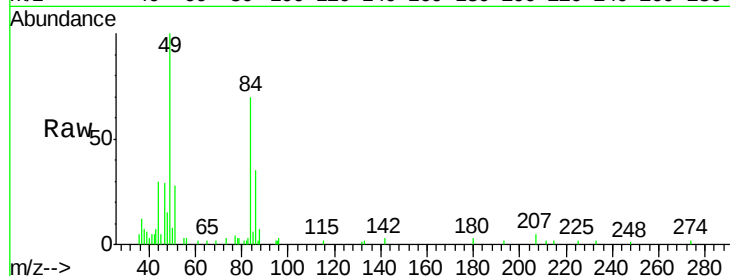




#20
Methvlene Chloride
Concen: 4.702 ug/l
RT: 2.27 min Scan# 177
Delta R.T. 0.01 min
Lab File: VF059351.D
Acq: 27 Jun 2018 20:50

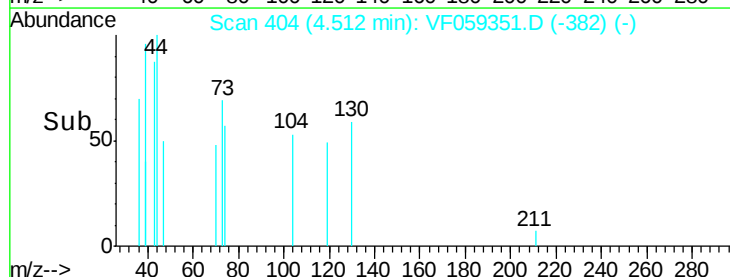
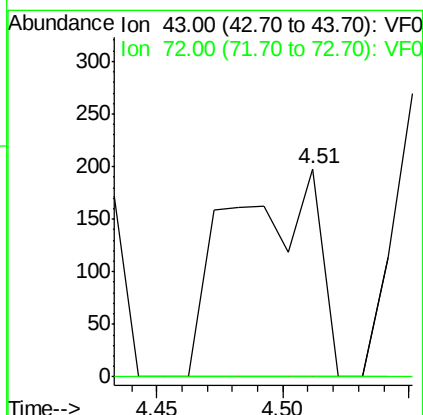
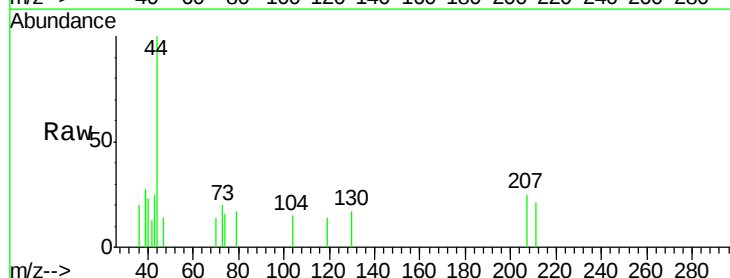
Instrument :
MSVOA_F
ClientSampleId :

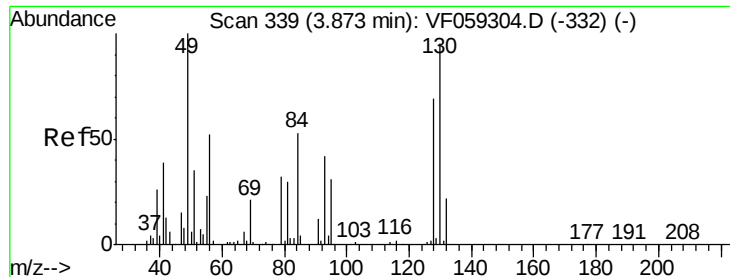
Tot Ion	84	Resp	15289
Ion Ratio	Lower	Upper	
84	100		
49	143.8	126.5	189.7
51	39.7	42.9	64.3#
86	50.8	48.6	73.0



#25
2-Butanone
Concen: Below Cal
RT: 4.51 min Scan# 404
Delta R.T. 0.02 min
Lab File: VF059351.D
Acq: 27 Jun 2018 20:50

Tgt Ion	43	Resp	473
Ion Ratio	Lower	Upper	
43	100		
72	0.0	14.4	21.6#





#28

Bromochloromethane

Concen: Below Cal

RT: 4.01 min Scan# 353

Delta R.T. 0.14 min

Lab File: VF059351.D

Acq: 27 Jun 2018 20:50

Instrument :
MSVOA_F
ClientSampled :

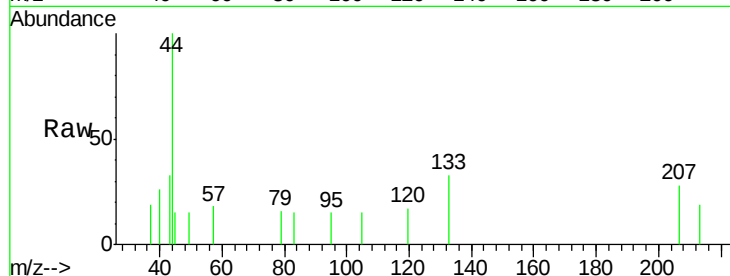
Tot Ion: 49 Resp: 66

Ion Ratio Lower Upper

49 100

129 0.0 0.0 6.4

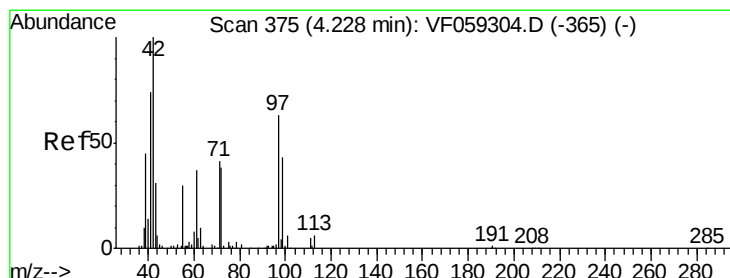
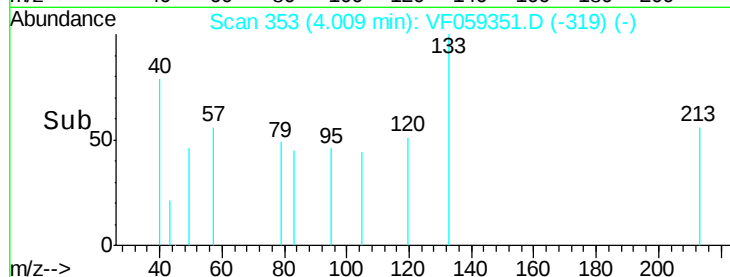
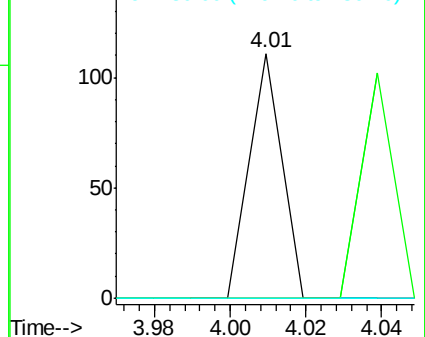
130 0.0 75.1 112.7#



Abundance Ion 49.00 (48.70 to 49.70): VF0

Ion 129.00 (128.70 to 129.70): V

Ion 130.00 (129.70 to 130.70): V



#29

Tetrahydrofuran

Concen: Below Cal

RT: 4.24 min Scan# 376

Delta R.T. 0.01 min

Lab File: VF059351.D

Acq: 27 Jun 2018 20:50

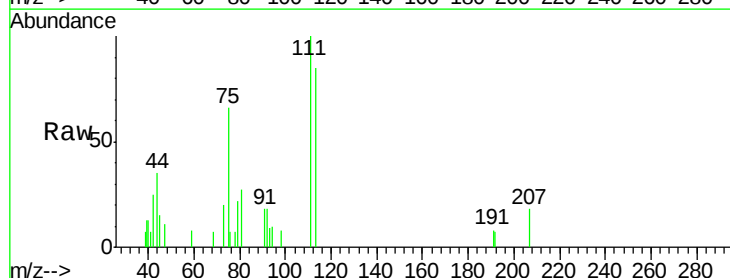
Tgt Ion: 42 Resp: 374

Ion Ratio Lower Upper

42 100

72 0.0 30.5 45.7#

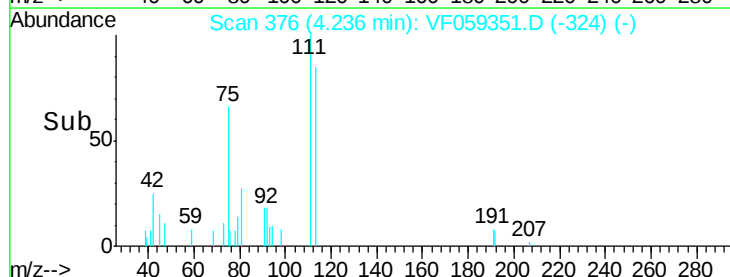
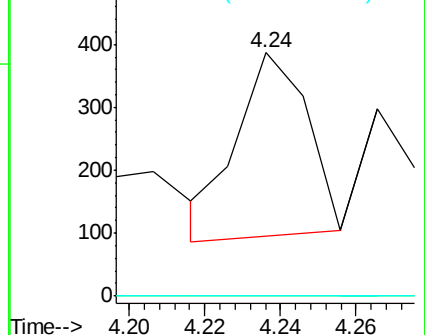
71 0.0 32.5 48.7#

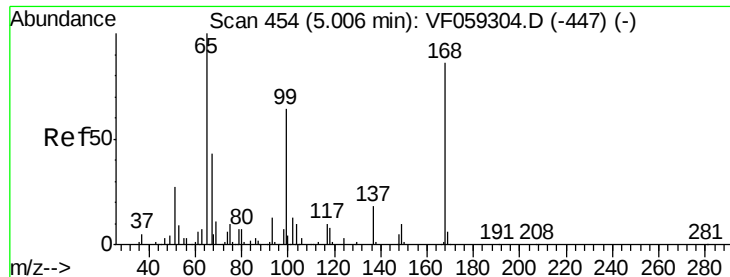


Abundance Ion 42.00 (41.70 to 42.70): VF0

Ion 72.00 (71.70 to 72.70): VF0

Ion 71.00 (70.70 to 71.70): VF0





#33

1,2-Dichloroethane-d4

Concen: 44.372 ug/l

RT: 5.01 min Scan# 455

Delta R.T. 0.01 min

Lab File: VF059351.D

Acq: 27 Jun 2018 20:50

Instrument :

MSVOA_F

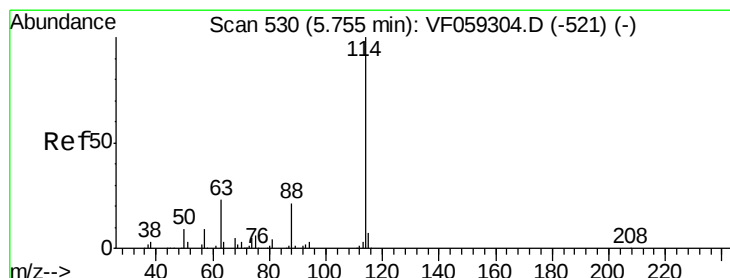
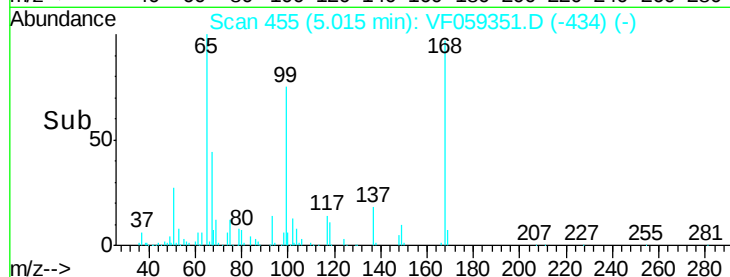
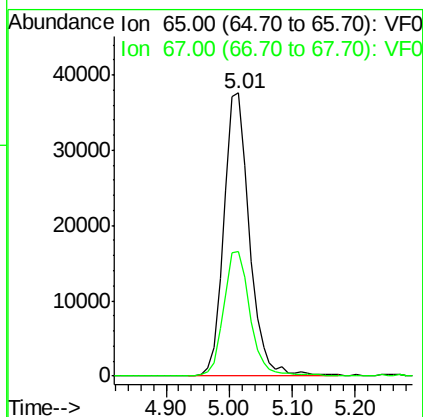
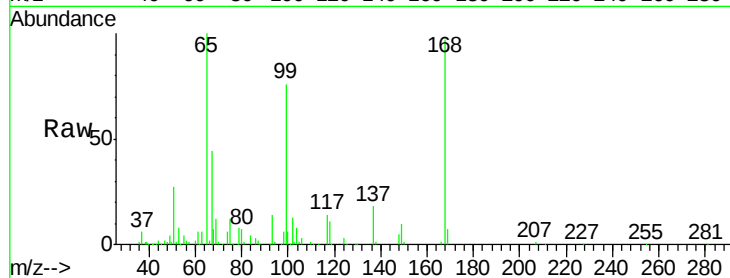
ClientSampleId :

Tot Ion: 65 Resp: 106143

Ion Ratio Lower Upper

65 100

67 44.1 0.0 96.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.75 min Scan# 530

Delta R.T. -0.00 min

Lab File: VF059351.D

Acq: 27 Jun 2018 20:50

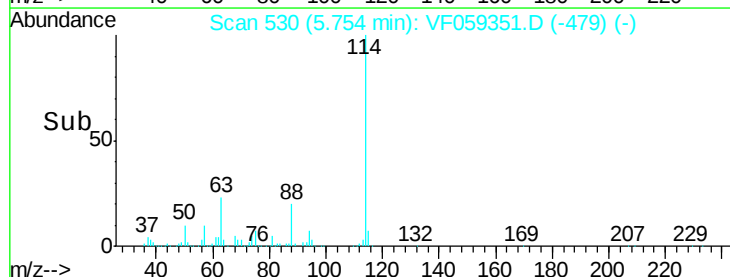
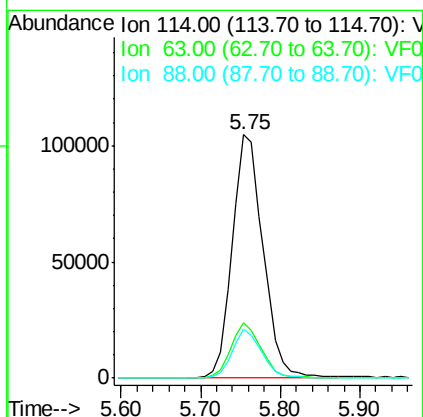
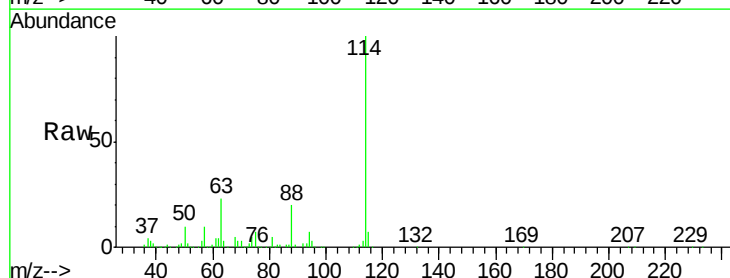
Tgt Ion: 114 Resp: 281653

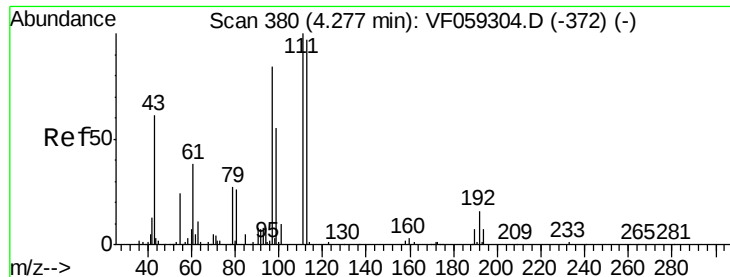
Ion Ratio Lower Upper

114 100

63 22.7 0.0 45.8

88 20.1 0.0 41.2

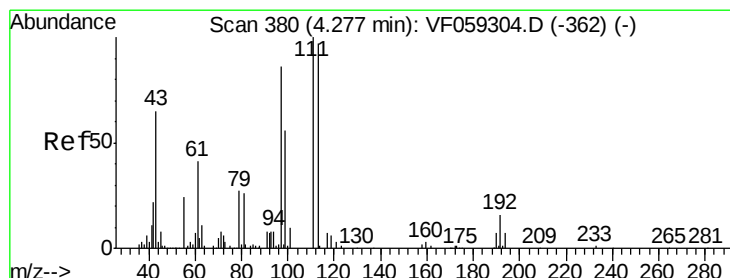
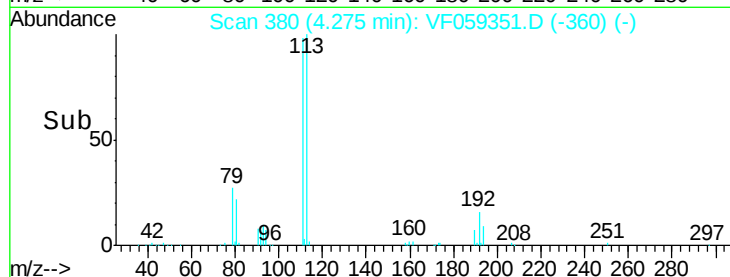
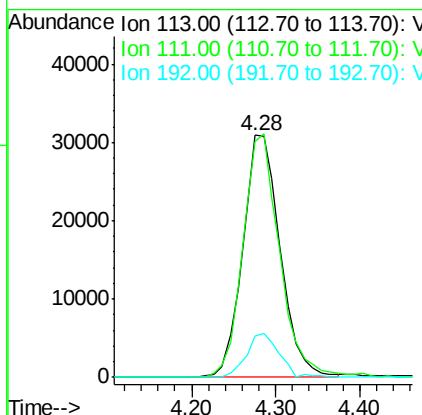
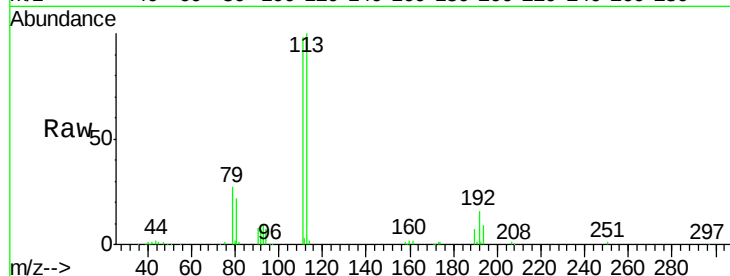




#35
Dibromofluoromethane
Concen: 46.734 ug/l
RT: 4.28 min Scan# 380
Delta R.T. -0.00 min
Lab File: VF059351.D
Acq: 27 Jun 2018 20:50

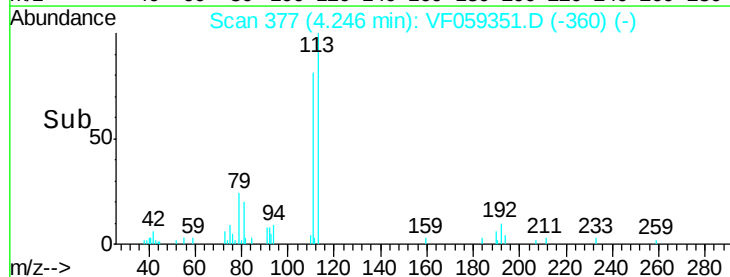
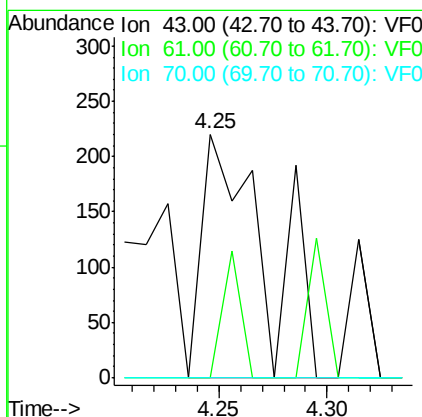
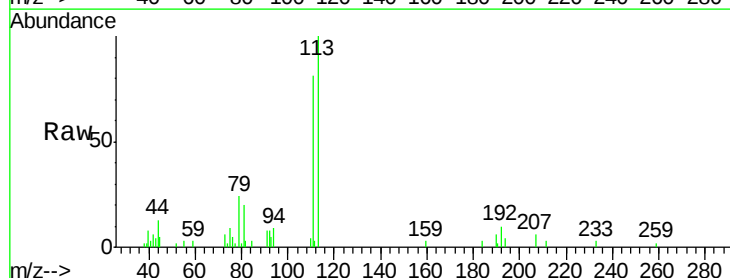
Instrument :
MSVOA_F
ClientSampleId :

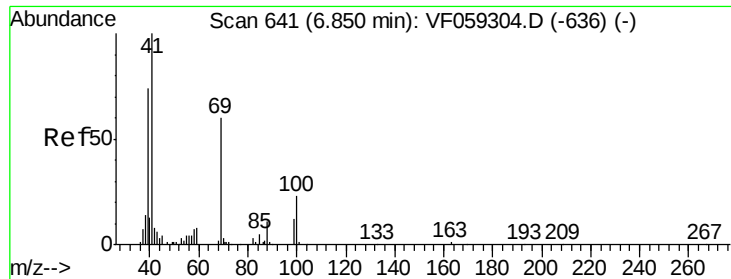
Tot Ion:113 Resp: 96177
Ion Ratio Lower Upper
113 100
111 97.7 82.1 123.1
192 17.2 13.0 19.6



#37
Ethyl Acetate
Concen: Below Cal
RT: 4.25 min Scan# 377
Delta R.T. -0.03 min
Lab File: VF059351.D
Acq: 27 Jun 2018 20:50

Tgt Ion: 43 Resp: 449
Ion Ratio Lower Upper
43 100
61 0.0 50.1 75.1#
70 0.0 6.2 9.4#

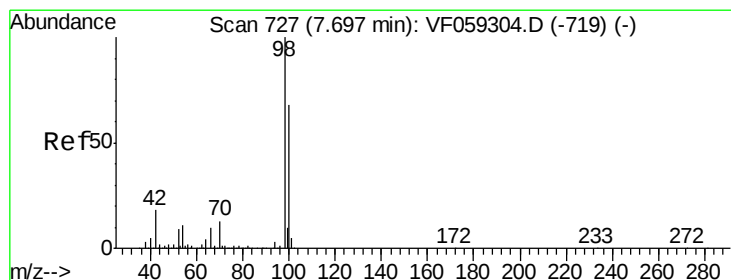
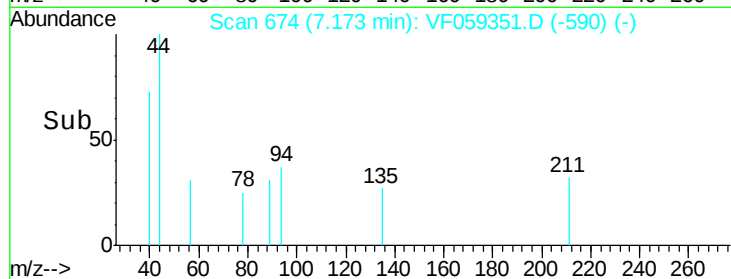
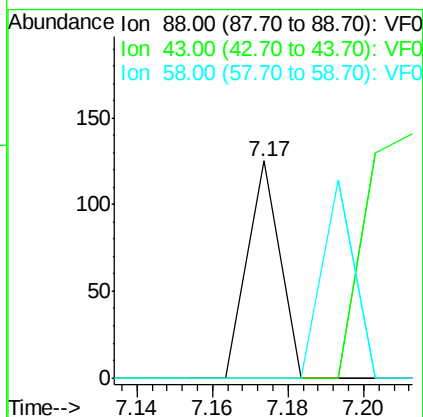
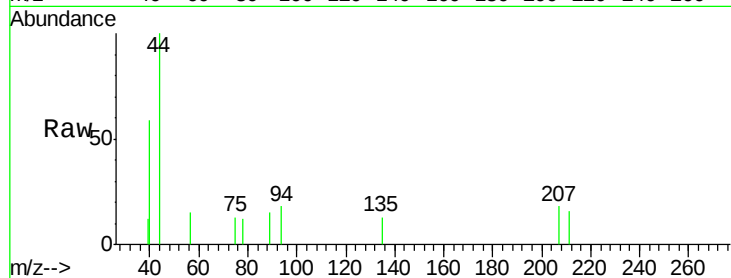




#49
1,4-Dioxane
Concen: Below Cal
RT: 7.17 min Scan# 674
Delta R.T. 0.32 min
Lab File: VF059351.D
Acq: 27 Jun 2018 20:50

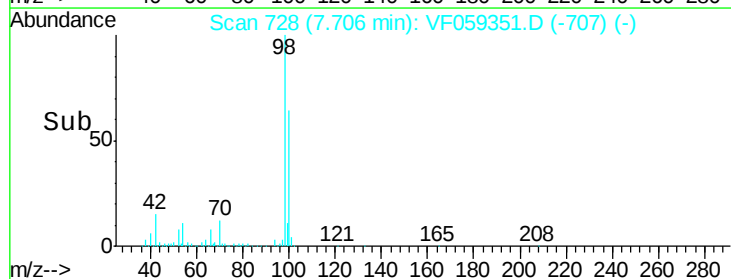
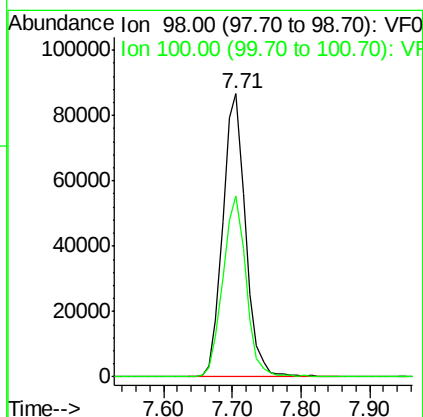
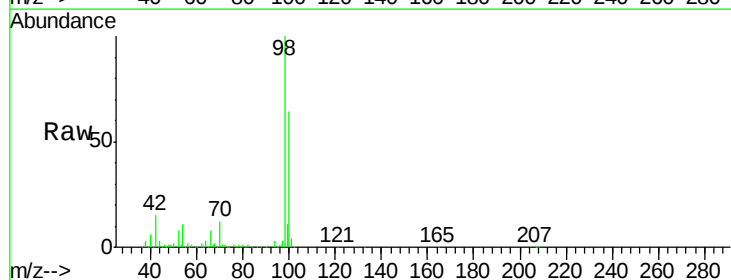
Instrument :
MSVOA_F
ClientSampleId :

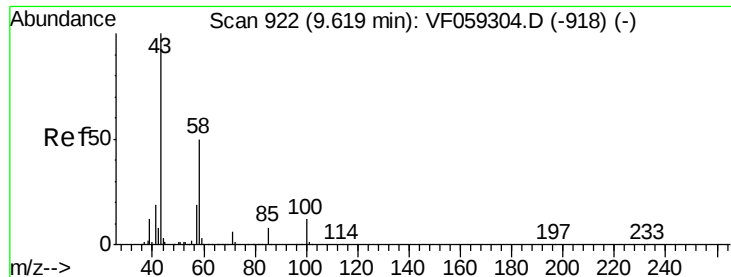
Tot Ion: 88 Resp: 74
Ion Ratio Lower Upper
88 100
43 0.0 50.6 75.8#
58 0.0 46.6 69.8#



#50
Toluene-d8
Concen: 39.110 ug/l
RT: 7.71 min Scan# 728
Delta R.T. 0.01 min
Lab File: VF059351.D
Acq: 27 Jun 2018 20:50

Tgt Ion: 98 Resp: 199276
Ion Ratio Lower Upper
98 100
100 64.1 54.6 82.0

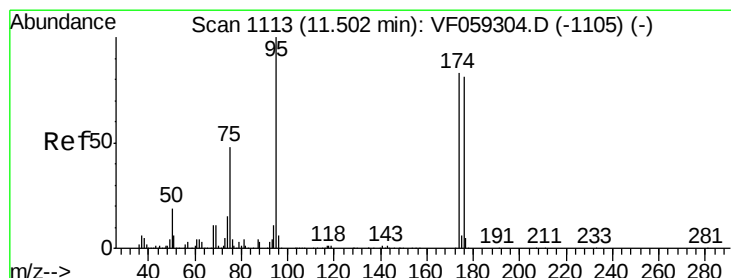
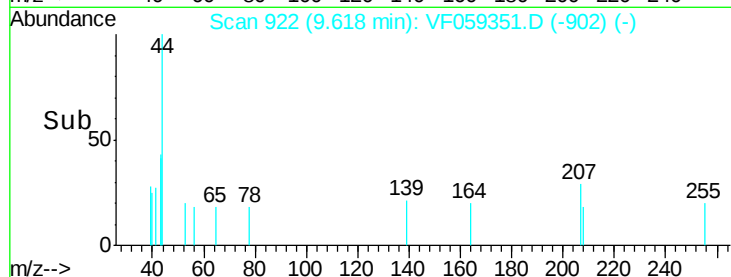
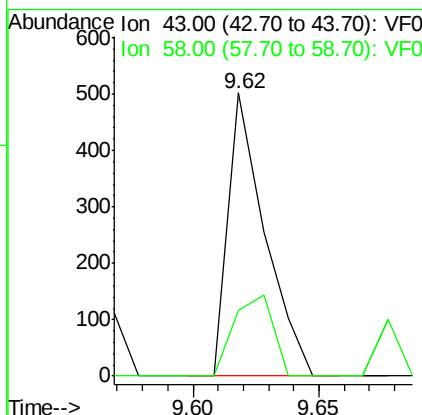
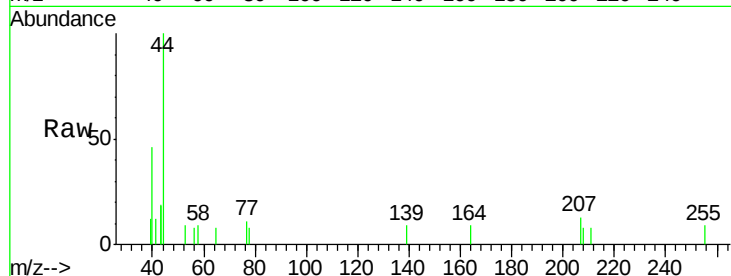




#59
2-Hexanone
Concen: Below Cal
RT: 9.62 min Scan# 922
Delta R.T. -0.00 min
Lab File: VF059351.D
Acq: 27 Jun 2018 20:50

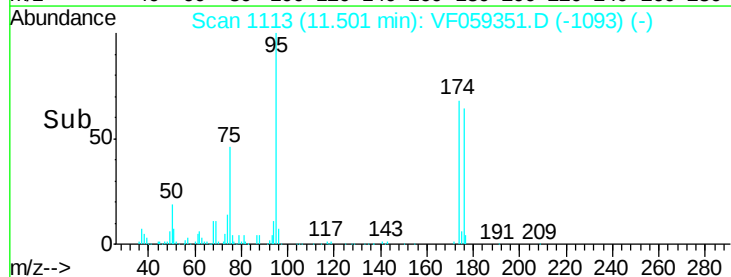
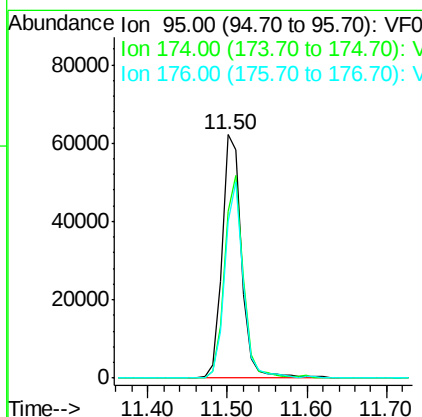
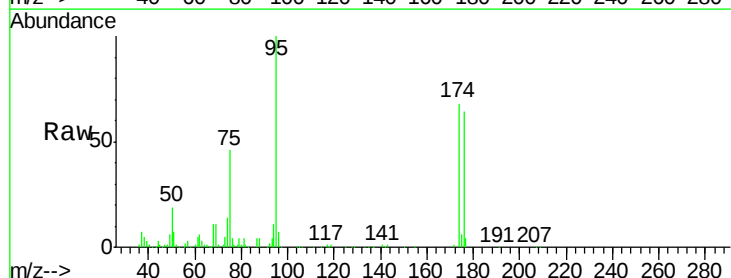
Instrument :
MSVOA_F
ClientSampled :

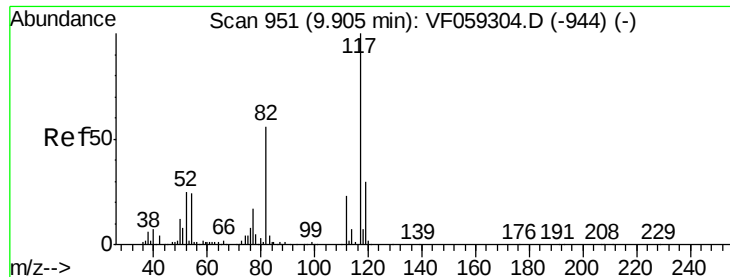
Tot Ion: 43 Resp: 509
Ion Ratio Lower Upper
43 100
58 23.3 23.3 69.9



#62
4-Bromofluorobenzene
Concen: 37.524 ug/l
RT: 11.50 min Scan# 1113
Delta R.T. -0.00 min
Lab File: VF059351.D
Acq: 27 Jun 2018 20:50

Tgt Ion: 95 Resp: 107852
Ion Ratio Lower Upper
95 100
174 68.5 0.0 165.2
176 64.1 0.0 161.0

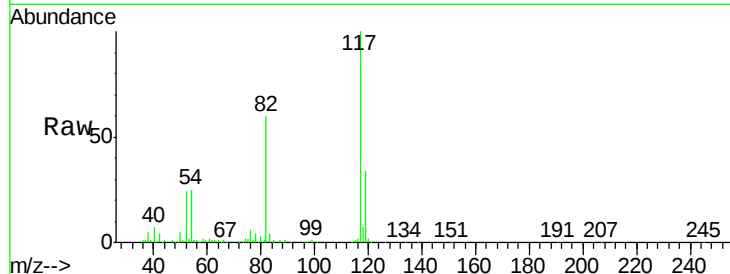




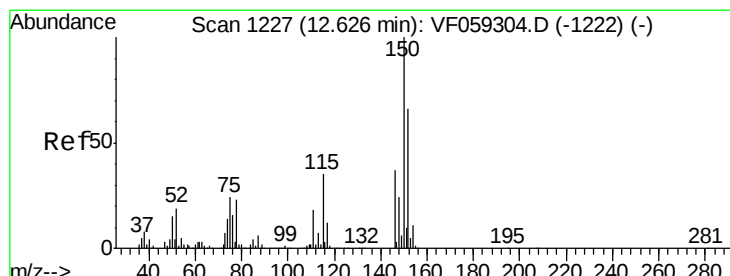
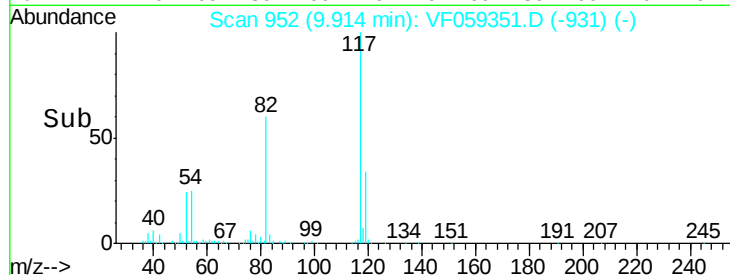
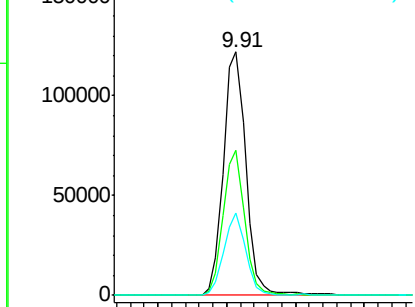
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.91 min Scan# 952
Delta R.T. 0.01 min
Lab File: VF059351.D
Acq: 27 Jun 2018 20:50

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
117	100		
82	59.6	44.6	66.8
119	33.9	24.1	36.1

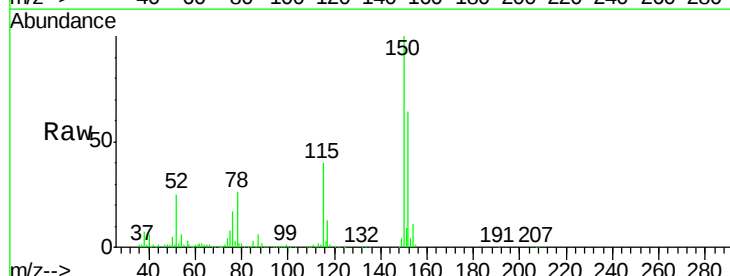


Abundance Ion 117.00 (116.70 to 117.70): V
Ion 82.00 (81.70 to 82.70): V
Ion 119.00 (118.70 to 119.70): V

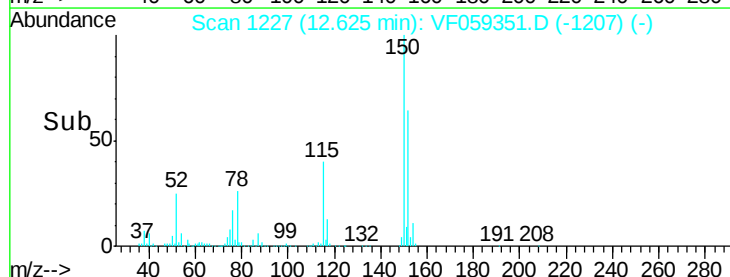
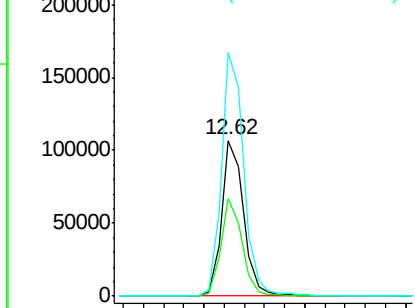


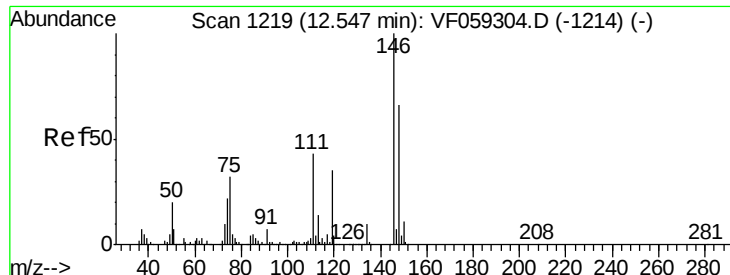
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.62 min Scan# 1227
Delta R.T. -0.00 min
Lab File: VF059351.D
Acq: 27 Jun 2018 20:50

Tgt Ion	Ratio	Lower	Upper
152	100		
115	62.5	27.1	81.3
150	156.2	0.0	305.2



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





#87

1,3-Dichlorobenzene

Concen: Below Cal

RT: 12.56 min Scan# 1220

Delta R.T. 0.01 min

Lab File: VF059351.D

Acq: 27 Jun 2018 20:50

Instrument :

MSVOA_F

ClientSampleId :

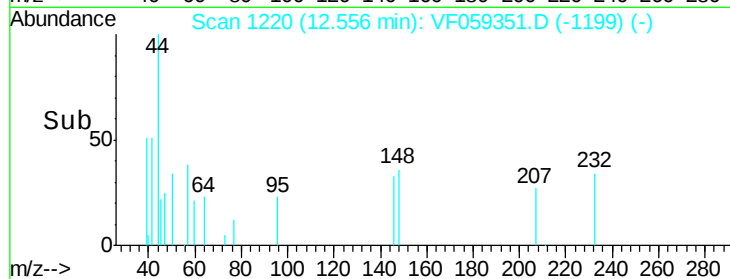
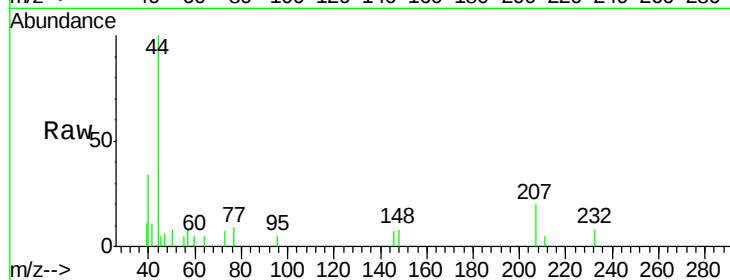
Tot Ion:146 Resp: 191

Ion Ratio Lower Upper

146 100

111 0.0 21.4 64.2#

148 111.7 32.8 98.4#



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

