

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_F\DATA\VF070318\
 Data File : VF059405.D
 Acq On : 3 Jul 2018 11:46
 Operator : VA/AP
 Sample : VF0703SBL01
 Misc : 5.00g/5mL/MSVOA-F/SOIL
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0703SBL01

Quant Time: Jul 04 00:08:17 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

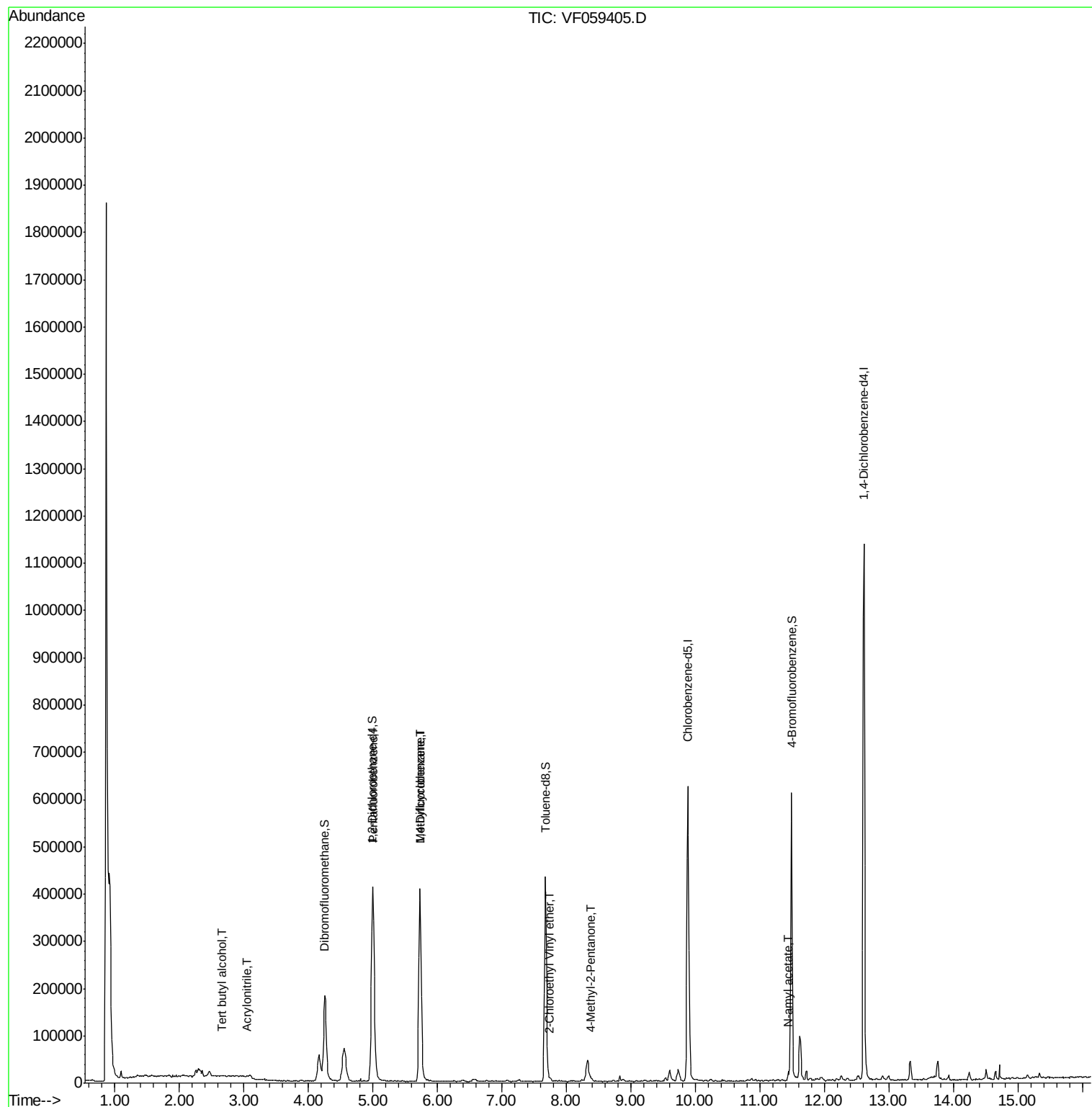
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.00	168	293215	50.00	ug/l	-0.02
34) 1,4-Difluorobenzene	5.73	114	430791	50.00	ug/l	-0.02
63) Chlorobenzene-d5	9.88	117	436105	50.00	ug/l	-0.02
72) 1,4-Dichlorobenzene-d4	12.61	152	295211	50.00	ug/l	-0.01
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.99	65	182277	48.12	ug/l	-0.02
Spiked Amount 50.000			Recovery	=	96.24%	
35) Dibromofluoromethane	4.26	113	159688	50.73	ug/l	-0.02
Spiked Amount 50.000			Recovery	=	101.46%	
50) Toluene-d8	7.68	98	345999	44.40	ug/l	-0.02
Spiked Amount 50.000			Recovery	=	88.80%	
62) 4-Bromofluorobenzene	11.49	95	214160	48.72	ug/l	-0.01
Spiked Amount 50.000			Recovery	=	97.44%	
Target Compounds						
					Qvalue	
5) Bromomethane	1.32	94	735	Below Cal	#	40
11) Tert butyl alcohol	2.66	59	669	2.653 ug/l	#	1
13) Acrolein	2.07	56	450	Below Cal	#	55
15) Acrylonitrile	3.05	53	1160	2.612 ug/l	#	28
16) Acetone	2.25	43	1011	Below Cal		99
20) Methylene Chloride	2.29	84	11046	Below Cal	#	86
25) 2-Butanone	4.48	43	1970	Below Cal	#	59
28) Bromochloromethane	3.84	49	77	Below Cal	#	6
29) Tetrahydrofuran	4.24	42	1667	Below Cal	#	92
37) Ethyl Acetate	4.34	43	699	Below Cal	#	65
39) Methylcyclohexane	5.72	83	5439	1.631 ug/l	#	38
49) 1,4-Dioxane	6.85	88	209	Below Cal	#	20
51) 4-Methyl-2-Pentanone	8.38	43	6921	2.980 ug/l	#	82
58) 2-Chloroethyl Vinyl ether	7.75	63	238	1.057 ug/l		100
59) 2-Hexanone	9.60	43	17960	Below Cal		94
74) N-amyl acetate	11.44	43	10455	1.675 ug/l		95
87) 1,3-Dichlorobenzene	12.54	146	2519	Below Cal		96

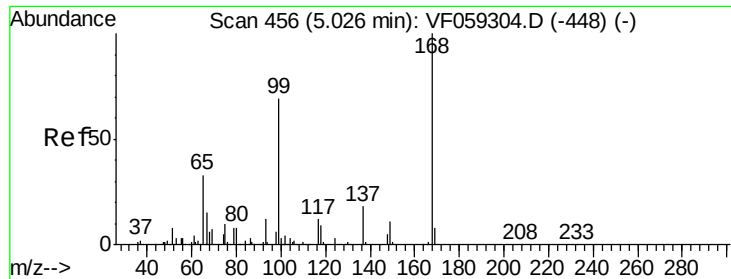
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.00 min Scan# 454

Delta R.T. -0.02 min

Lab File: VF059405.D

Acq: 3 Jul 2018 11:46

Instrument :

MSVOA_F

ClientSampleId :

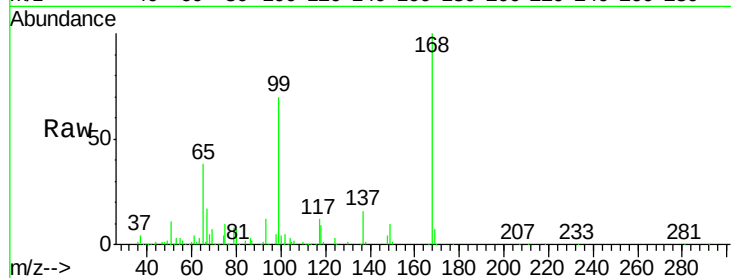
VF0703SBL01

Tgt Ion:168 Resp: 293215

Ion Ratio Lower Upper

168 100

99 70.4 54.9 82.3



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

5.00

100000

80000

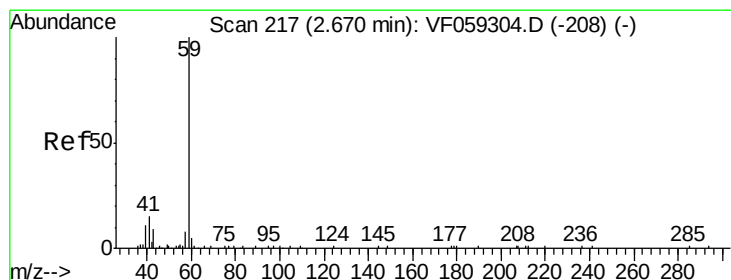
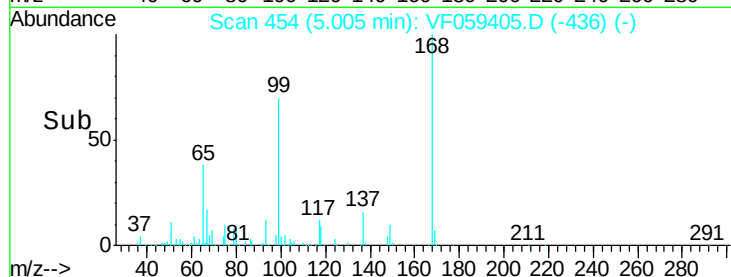
60000

40000

20000

0

Time-->



#11

Tert butyl alcohol

Concen: 2.653 ug/l

RT: 2.66 min Scan# 216

Delta R.T. -0.01 min

Lab File: VF059405.D

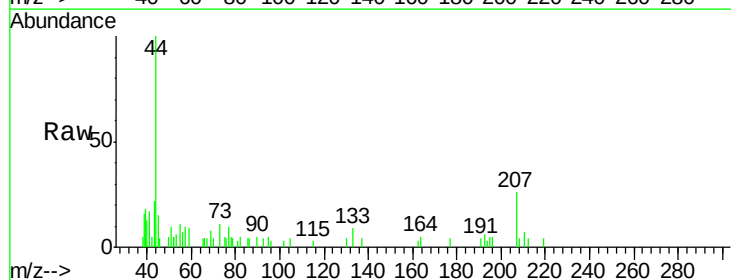
Acq: 3 Jul 2018 11:46

Tgt Ion: 59 Resp: 669

Ion Ratio Lower Upper

59 100

57 107.4 11.0 16.4#



Abundance Ion 59.00 (58.70 to 59.70): VF0

Ion 57.00 (56.70 to 57.70): VF0

600

500

400

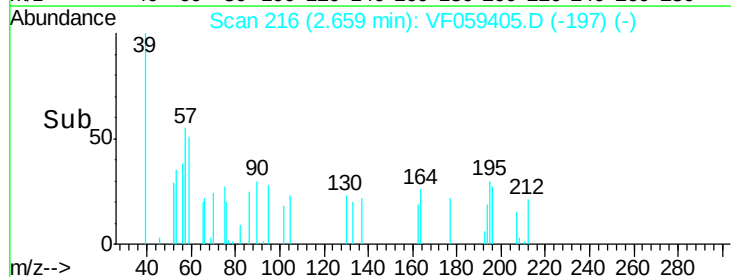
300

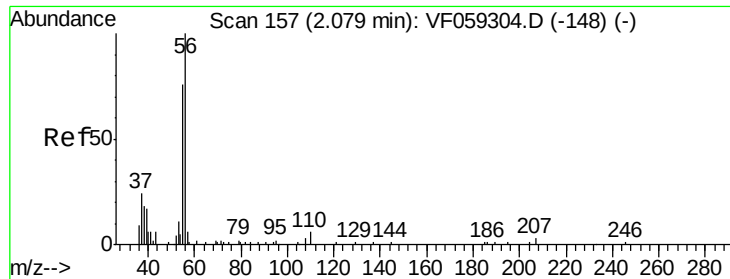
200

100

0

Time-->





#13

Acrolein

Concen: Below Cal

RT: 2.07 min Scan# 156

Delta R.T. -0.01 min

Lab File: VF059405.D

Acq: 3 Jul 2018 11:46

Instrument :

MSVOA_F

ClientSampleId :

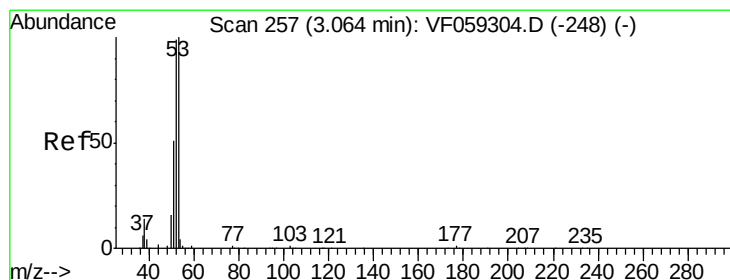
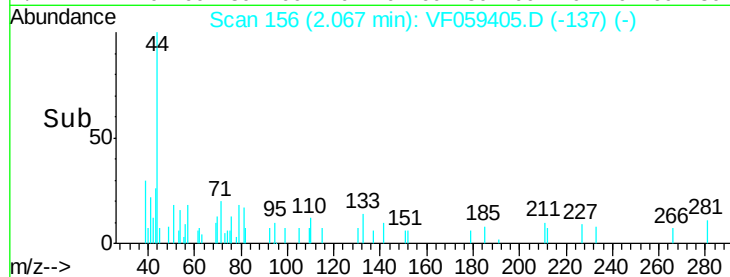
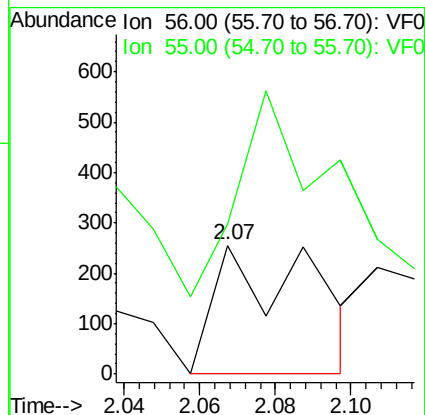
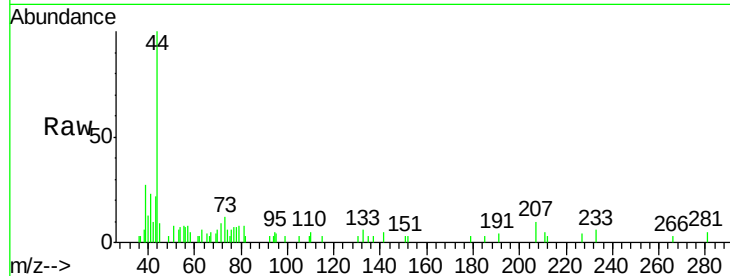
VF0703SBL01

Tgt Ion: 56 Resp: 450

Ion Ratio Lower Upper

56 100

55 116.8 62.4 93.6#



#15

Acrylonitrile

Concen: 2.612 ug/l

RT: 3.05 min Scan# 256

Delta R.T. -0.01 min

Lab File: VF059405.D

Acq: 3 Jul 2018 11:46

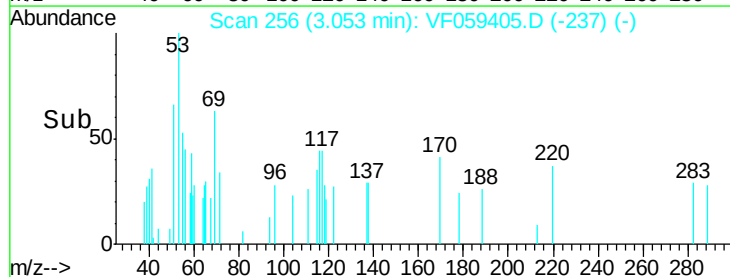
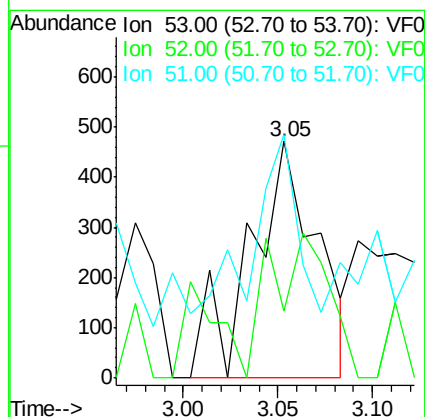
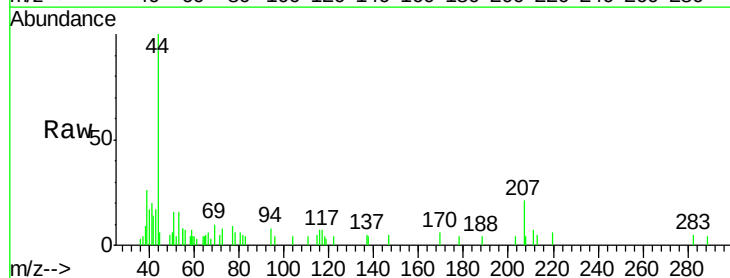
Tgt Ion: 53 Resp: 1160

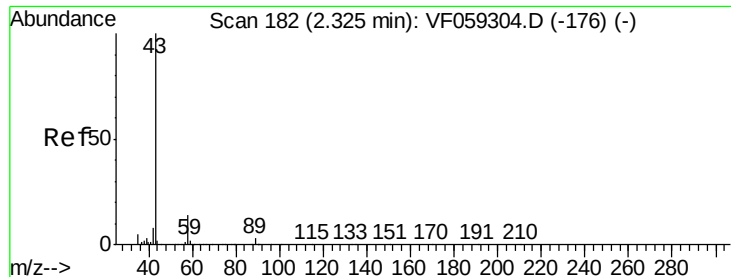
Ion Ratio Lower Upper

53 100

52 28.0 79.2 118.8#

51 102.8 40.9 61.3#

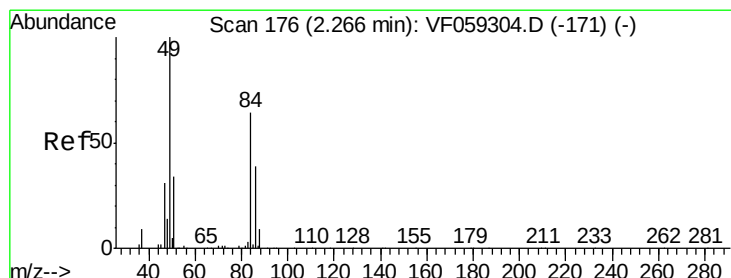
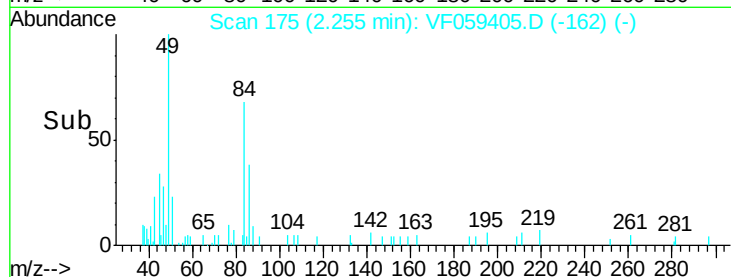
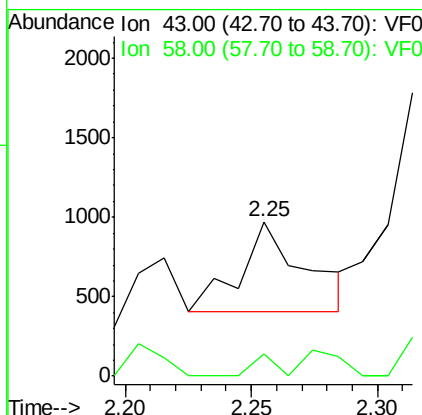
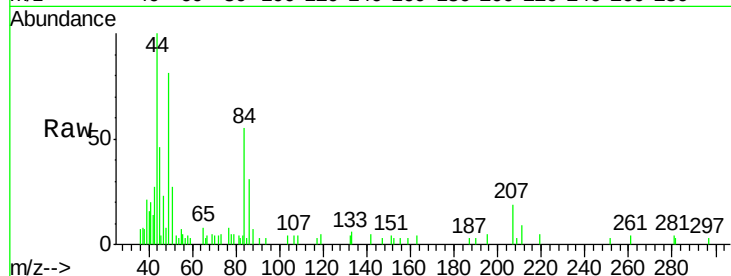




#16
Acetone
Concen: Below Cal
RT: 2.25 min Scan# 175
Delta R.T. -0.07 min
Lab File: VF059405.D
Acq: 3 Jul 2018 11:46

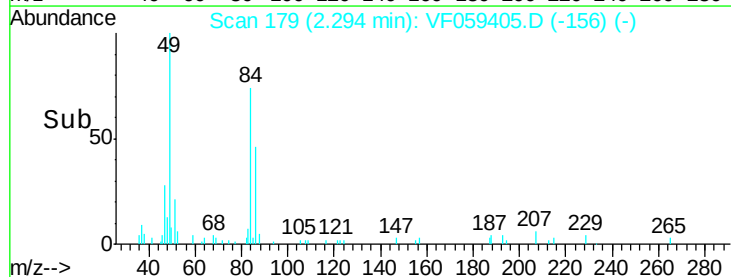
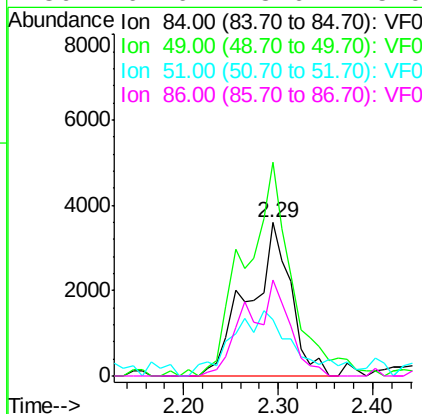
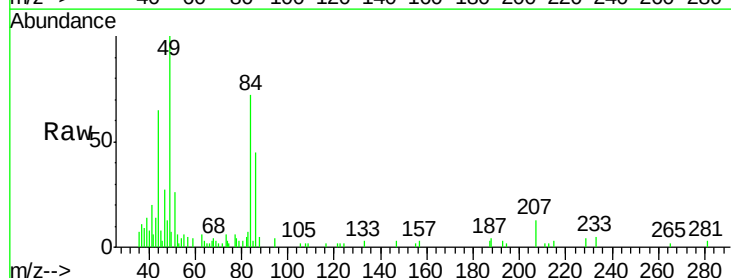
Instrument :
MSVOA_F
ClientSampleId :
VF0703SBL01

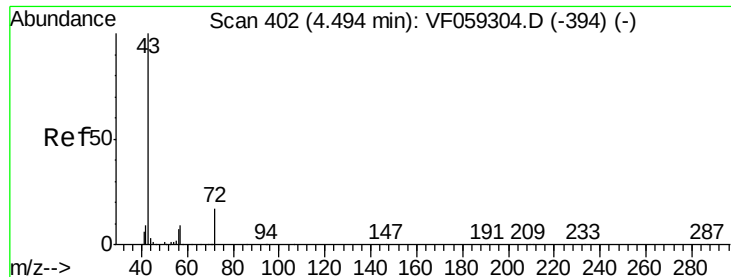
Tgt Ion: 43 Resp: 1011
Ion Ratio Lower Upper
43 100
58 14.7 11.4 17.0



#20
Methylene Chloride
Concen: Below Cal
RT: 2.29 min Scan# 179
Delta R.T. 0.03 min
Lab File: VF059405.D
Acq: 3 Jul 2018 11:46

Tgt Ion: 84 Resp: 11046
Ion Ratio Lower Upper
84 100
49 139.4 126.5 189.7
51 36.4 42.9 64.3#
86 62.6 48.6 73.0





#25

2-Butanone

Concen: Below Cal

RT: 4.48 min Scan# 401

Delta R.T. -0.01 min

Lab File: VF059405.D

Acq: 3 Jul 2018 11:46

Instrument :

MSVOA_F

ClientSampleId :

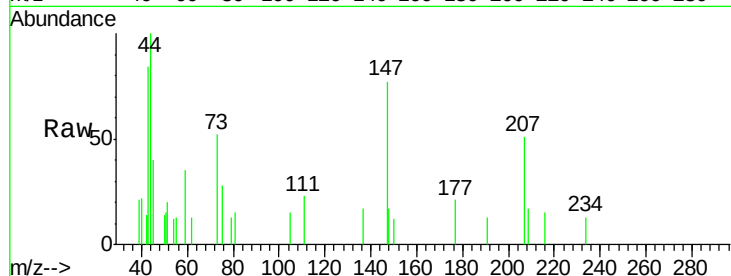
VF0703SBL01

Tgt Ion: 43 Resp: 1970

Ion Ratio Lower Upper

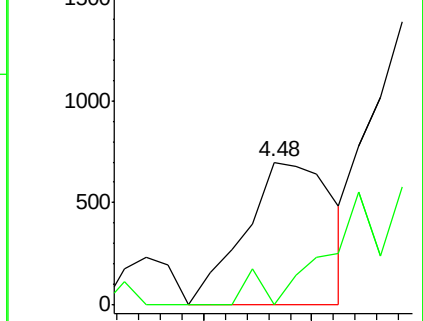
43 100

72 0.0 14.4 21.6#

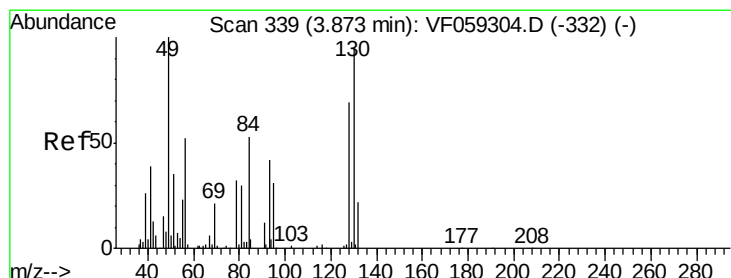
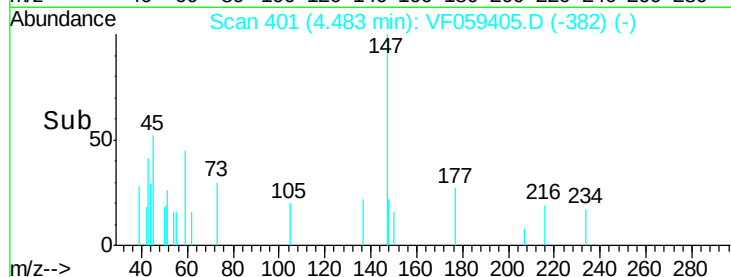


Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 72.00 (71.70 to 72.70): VF0



Time-->



#28

Bromochloromethane

Concen: Below Cal

RT: 3.84 min Scan# 336

Delta R.T. -0.03 min

Lab File: VF059405.D

Acq: 3 Jul 2018 11:46

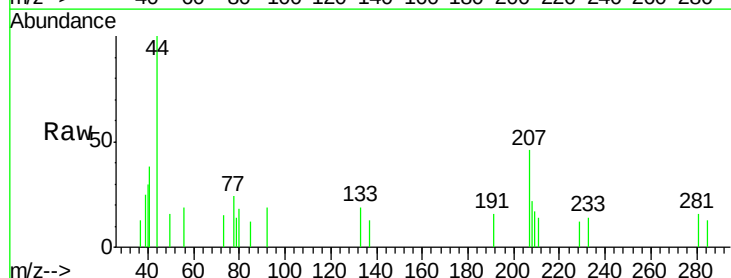
Tgt Ion: 49 Resp: 77

Ion Ratio Lower Upper

49 100

129 0.0 0.0 6.4

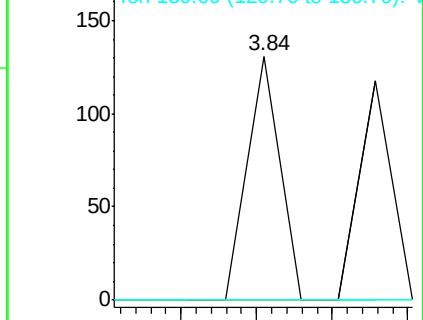
130 0.0 75.1 112.7#



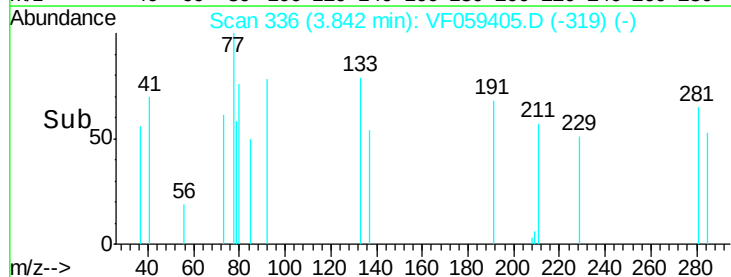
Abundance Ion 49.00 (48.70 to 49.70): VF0

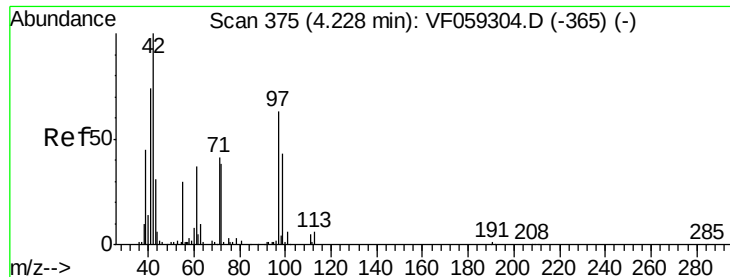
Ion 129.00 (128.70 to 129.70): V

Ion 130.00 (129.70 to 130.70): V



Time-->





#29

Tetrahydrofuran

Concen: Below Cal

RT: 4.24 min Scan# 376

Delta R.T. 0.01 min

Lab File: VF059405.D

Acq: 3 Jul 2018 11:46

Instrument :

MSVOA_F

ClientSampleId :

VF0703SBL01

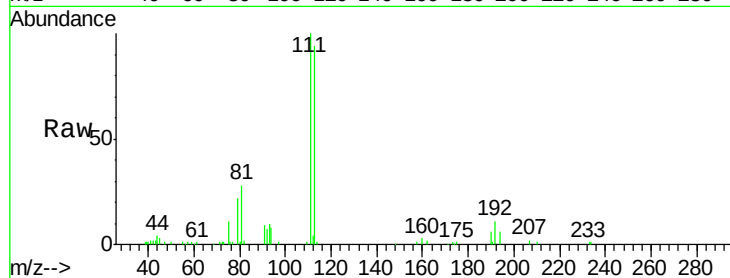
Tgt Ion: 42 Resp: 1667

Ion Ratio Lower Upper

42 100

72 46.1 30.5 45.7#

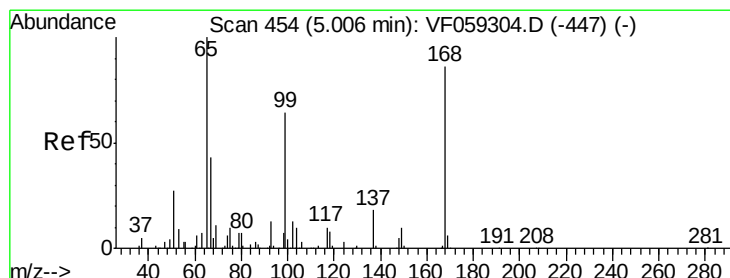
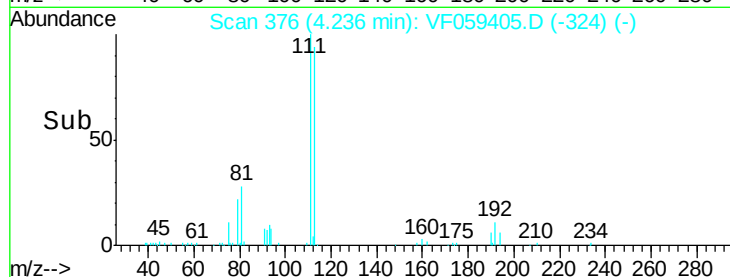
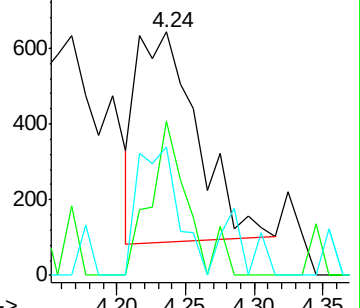
71 42.0 32.5 48.7



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: 48.116 ug/l

RT: 4.99 min Scan# 452

Delta R.T. -0.02 min

Lab File: VF059405.D

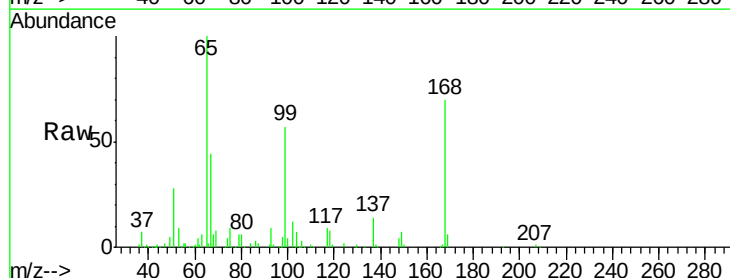
Acq: 3 Jul 2018 11:46

Tgt Ion: 65 Resp: 182277

Ion Ratio Lower Upper

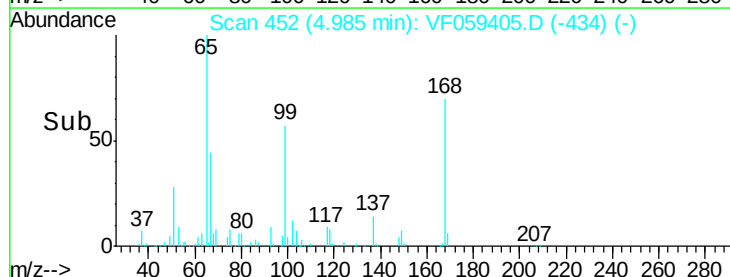
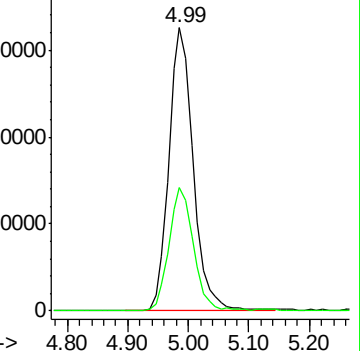
65 100

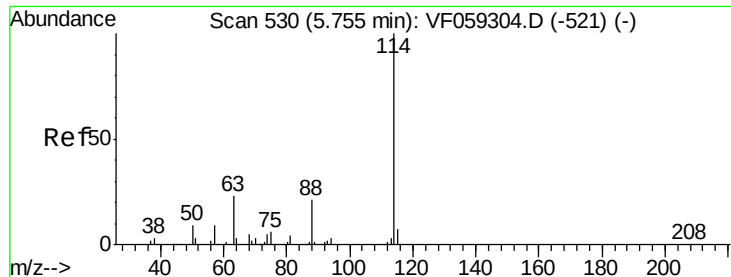
67 43.6 0.0 96.8



Abundance Ion 65.00 (64.70 to 65.70): VF0

Ion 67.00 (66.70 to 67.70): VF0

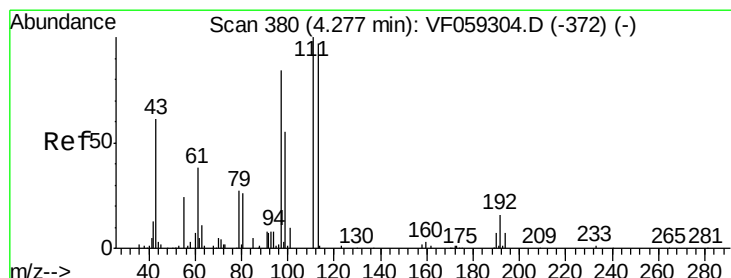
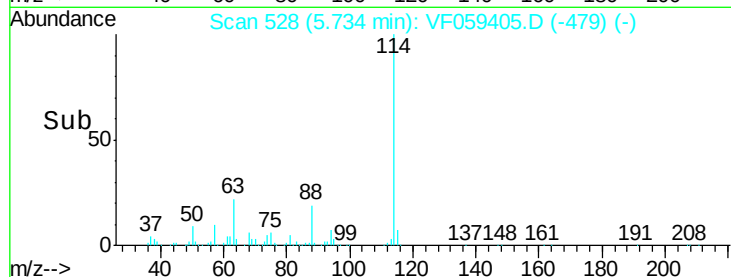
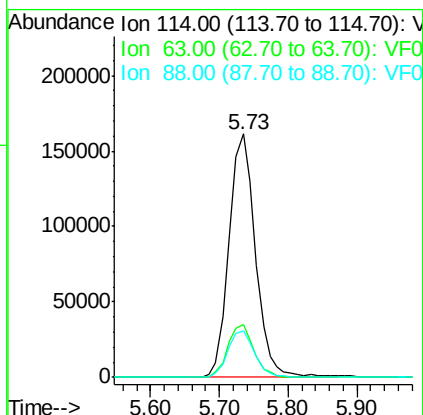
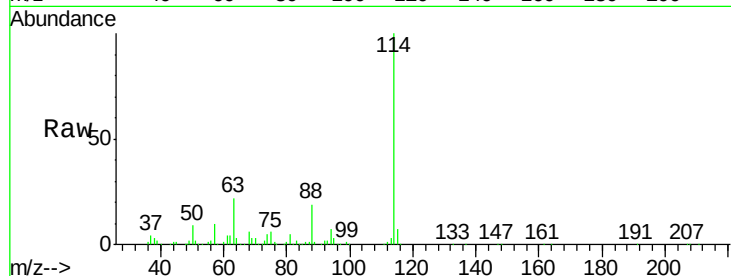




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 5.73 min Scan# 528
Delta R.T. -0.02 min
Lab File: VF059405.D
Acq: 3 Jul 2018 11:46

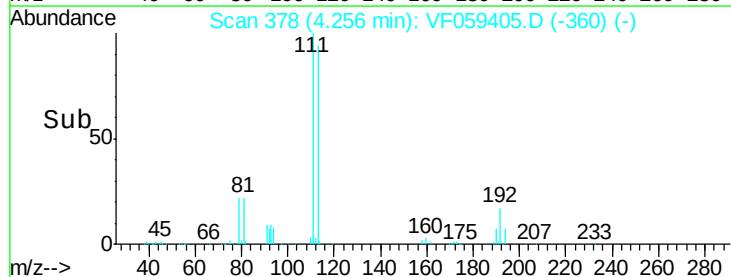
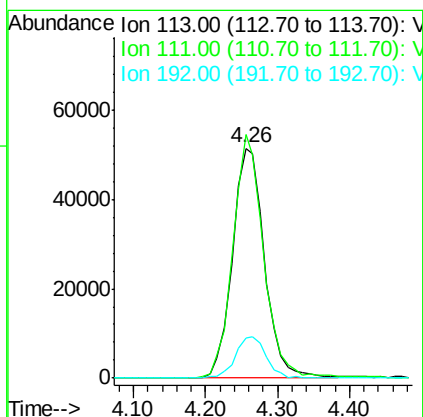
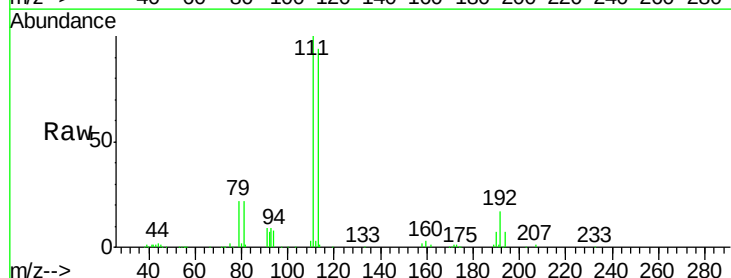
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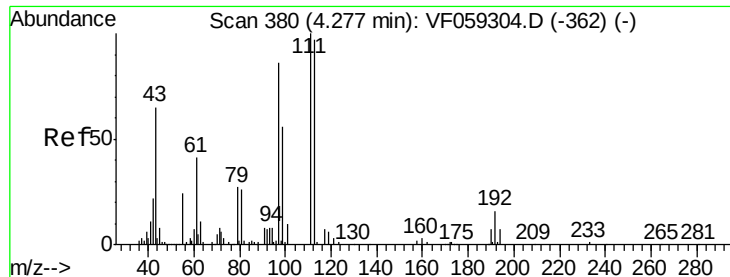
Tgt Ion:114 Resp: 430791
Ion Ratio Lower Upper
114 100
63 21.6 0.0 45.8
88 19.0 0.0 41.2



#35
Dibromofluoromethane
Concen: 50.732 ug/l
RT: 4.26 min Scan# 378
Delta R.T. -0.02 min
Lab File: VF059405.D
Acq: 3 Jul 2018 11:46

Tgt Ion:113 Resp: 159688
Ion Ratio Lower Upper
113 100
111 106.1 82.1 123.1
192 17.7 13.0 19.6

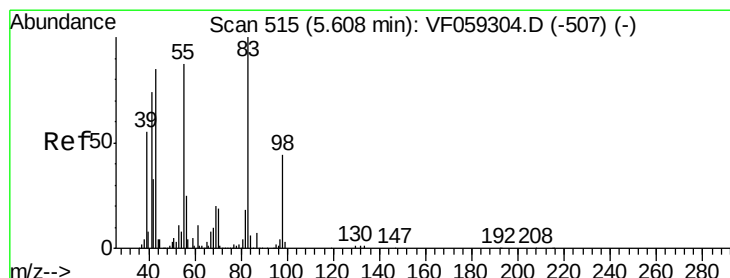
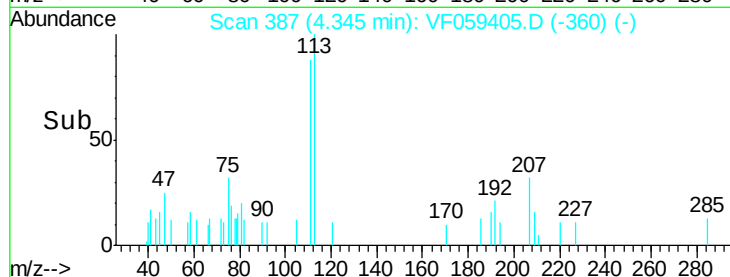
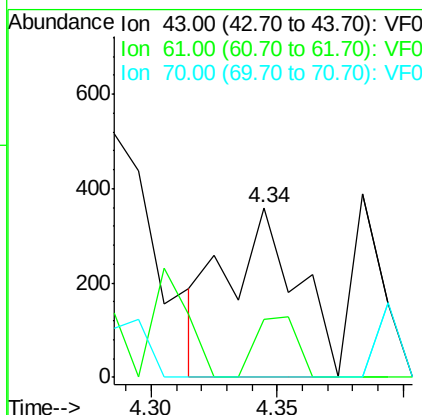
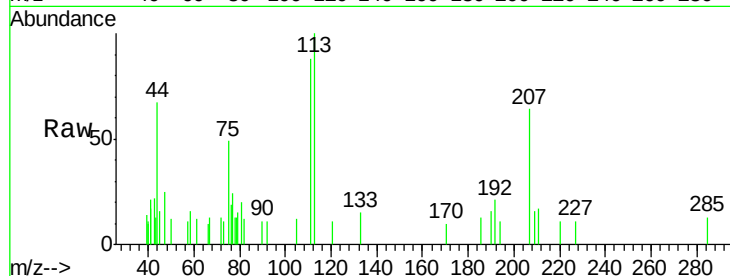




#37
Ethyl Acetate
Concen: Below Cal
RT: 4.34 min Scan# 387
Delta R.T. 0.07 min
Lab File: VF059405.D
Acq: 3 Jul 2018 11:46

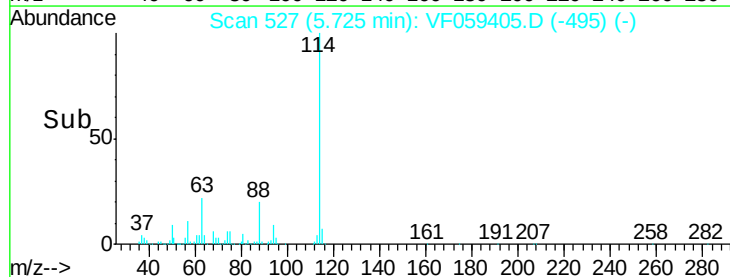
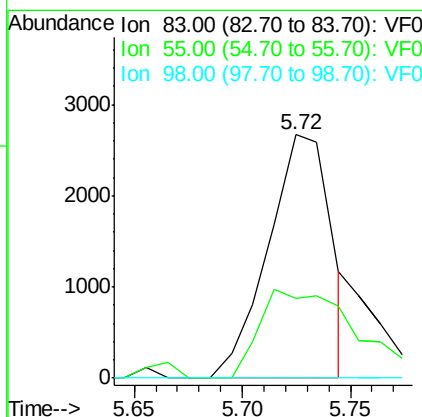
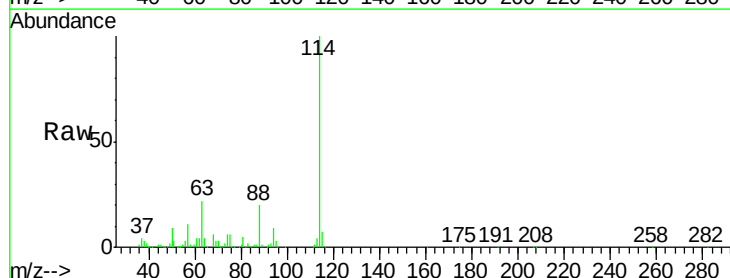
Instrument :
MSVOA_F
ClientSampleId :
VF0703SBL01

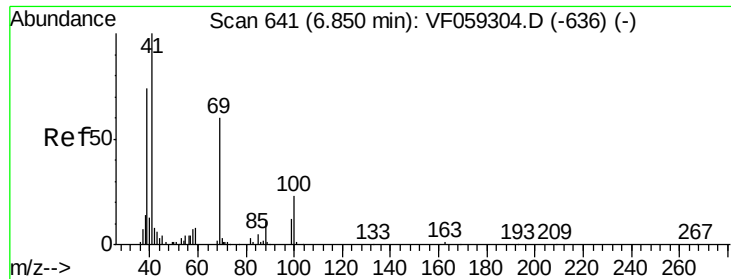
Tgt Ion: 43 Resp: 699
Ion Ratio Lower Upper
43 100
61 34.2 50.1 75.1#
70 0.0 6.2 9.4#



#39
Methylcyclohexane
Concen: 1.631 ug/l
RT: 5.72 min Scan# 527
Delta R.T. 0.12 min
Lab File: VF059405.D
Acq: 3 Jul 2018 11:46

Tgt Ion: 83 Resp: 5439
Ion Ratio Lower Upper
83 100
55 32.7 69.2 103.8#
98 0.0 35.0 52.6#





#49

1,4-Dioxane

Concen: Below Cal

RT: 6.85 min Scan# 641

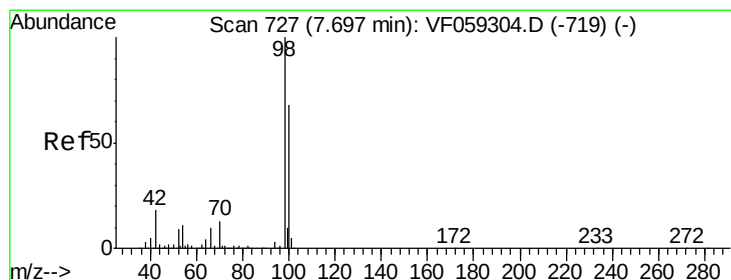
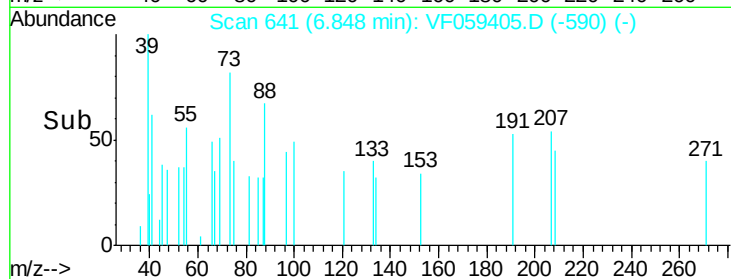
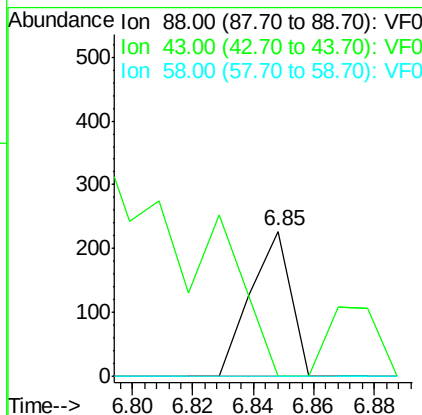
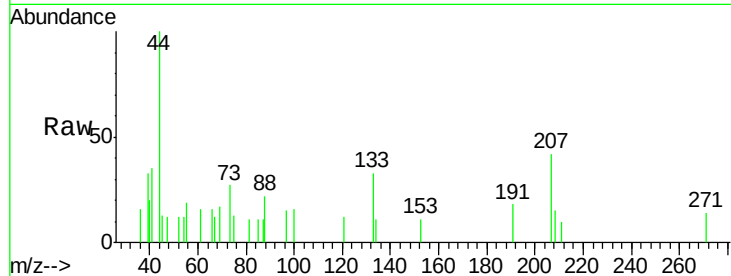
Delta R.T. -0.00 min

Lab File: VF059405.D

Acq: 3 Jul 2018 11:46

Instrument :
MSVOA_F
ClientSampleId :
VF0703SBL01

Tgt Ion:	88	Resp:	209
Ion	Ratio	Lower	Upper
88	100		
43	0.0	50.6	75.8#
58	0.0	46.6	69.8#



#50

Toluene-d8

Concen: 44.397 ug/l

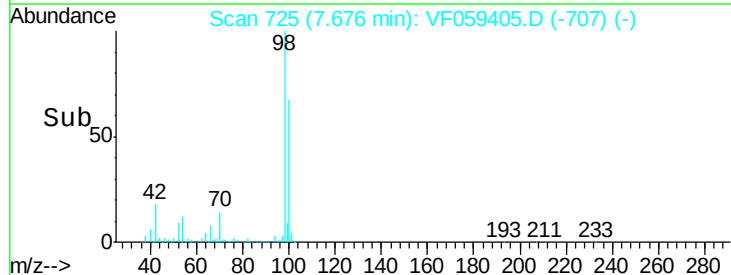
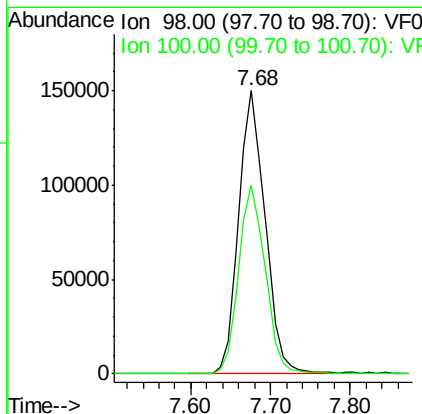
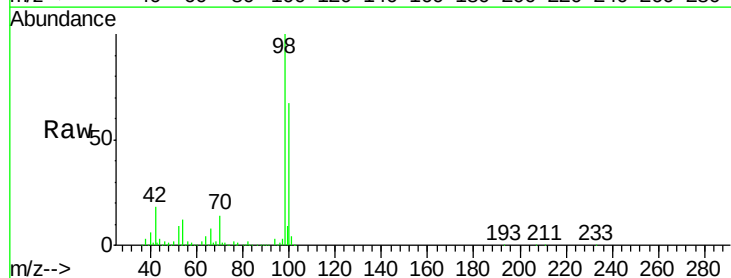
RT: 7.68 min Scan# 725

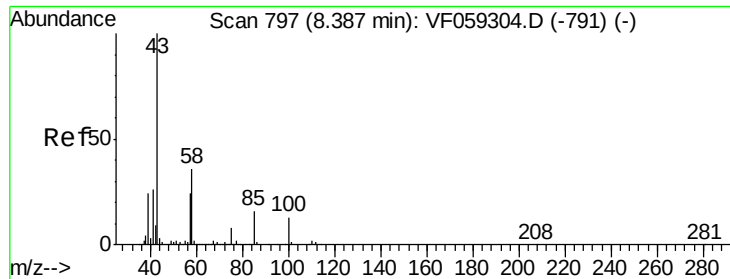
Delta R.T. -0.02 min

Lab File: VF059405.D

Acq: 3 Jul 2018 11:46

Tgt Ion:	98	Resp:	345999
Ion	Ratio	Lower	Upper
98	100		
100	66.5	54.6	82.0





#51

4-Methyl-2-Pentanone

Concen: 2.980 ug/l

RT: 8.38 min Scan# 796

Delta R.T. -0.01 min

Lab File: VF059405.D

Acq: 3 Jul 2018 11:46

Instrument :

MSVOA_F

ClientSampleId :

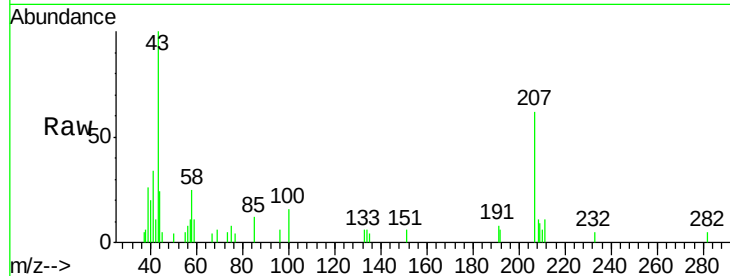
VF0703SBL01

Tgt Ion: 43 Resp: 6921

Ion Ratio Lower Upper

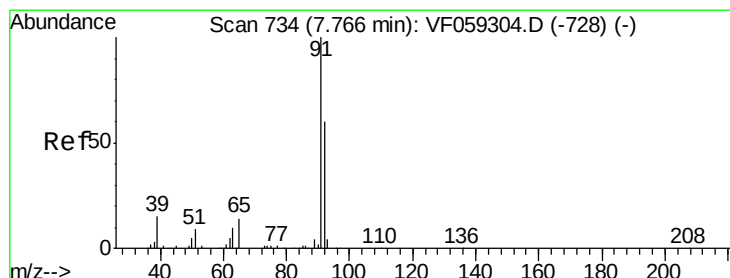
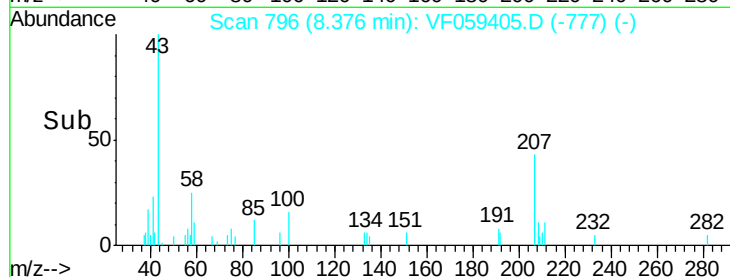
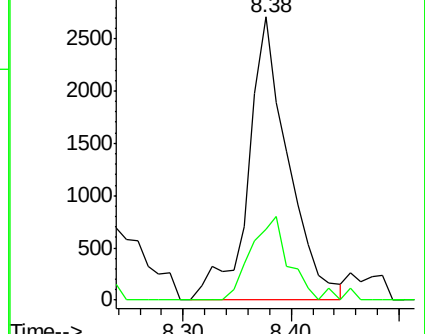
43 100

58 24.9 28.4 42.6#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#58

2-Chloroethyl Vinyl ether

Concen: 1.057 ug/l

RT: 7.75 min Scan# 732

Delta R.T. -0.02 min

Lab File: VF059405.D

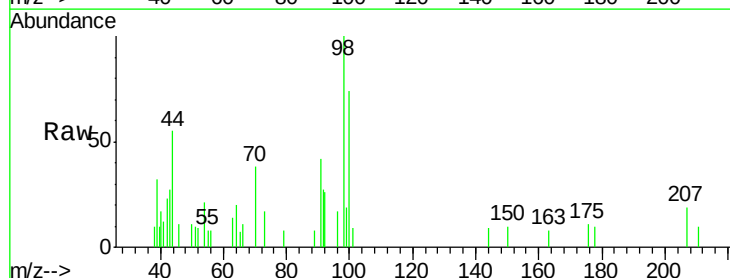
Acq: 3 Jul 2018 11:46

Tgt Ion: 63 Resp: 238

Ion Ratio Lower Upper

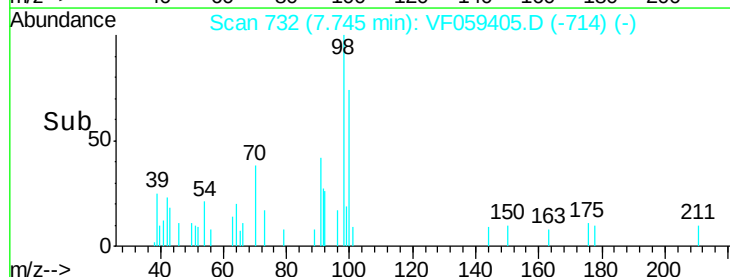
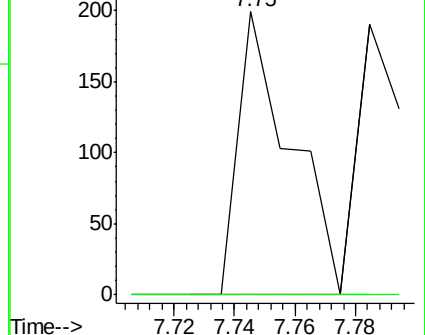
63 100

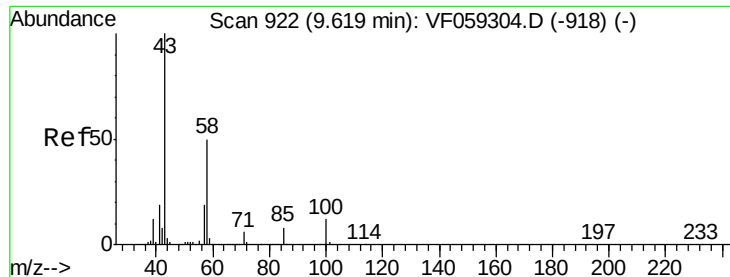
106 0.0 0.0 0.0



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 106.00 (105.70 to 106.70): V

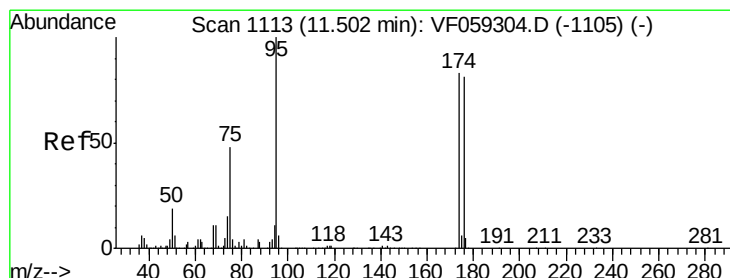
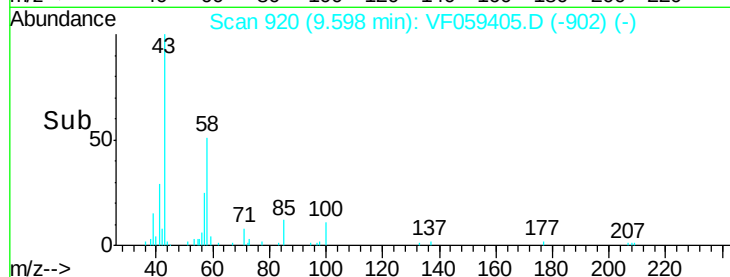
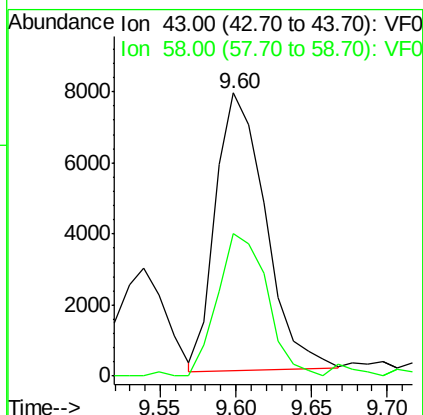
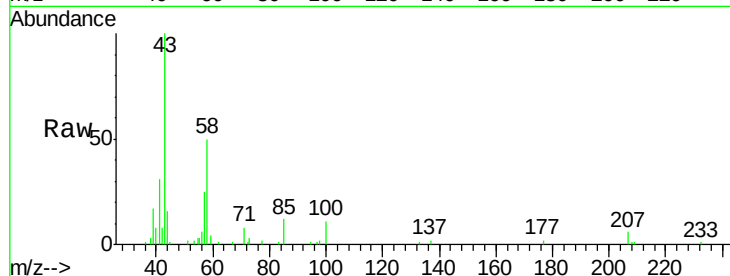




#59
2-Hexanone
Concen: Below Cal
RT: 9.60 min Scan# 920
Delta R.T. -0.02 min
Lab File: VF059405.D
Acq: 3 Jul 2018 11:46

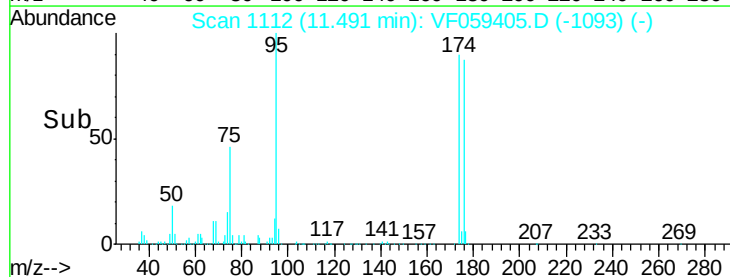
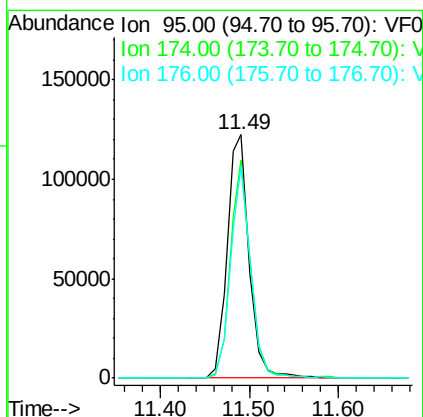
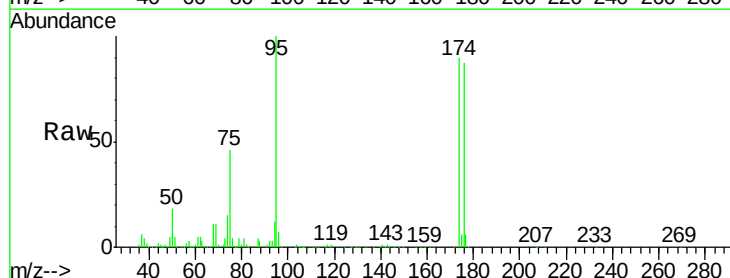
Instrument :
MSVOA_F
ClientSampleId :
VF0703SBL01

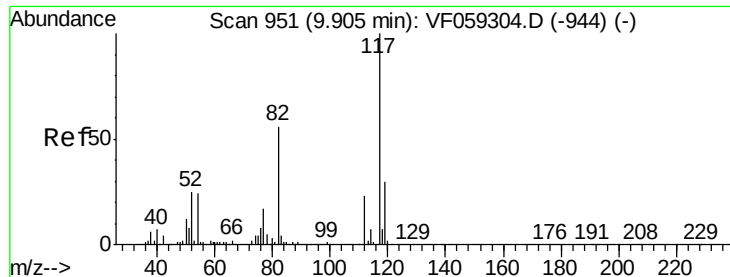
Tgt Ion: 43 Resp: 17960
Ion Ratio Lower Upper
43 100
58 50.4 23.3 69.9



#62
4-Bromofluorobenzene
Concen: 48.716 ug/l
RT: 11.49 min Scan# 1112
Delta R.T. -0.01 min
Lab File: VF059405.D
Acq: 3 Jul 2018 11:46

Tgt Ion: 95 Resp: 214160
Ion Ratio Lower Upper
95 100
174 89.8 0.0 165.2
176 87.0 0.0 161.0

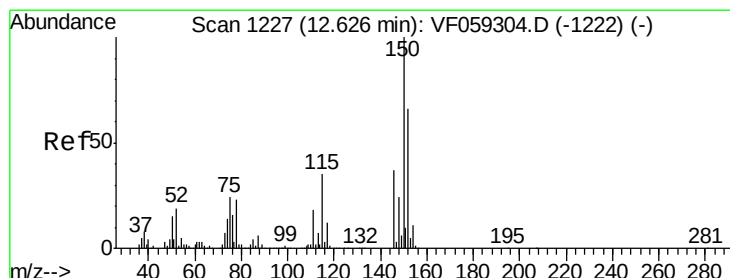
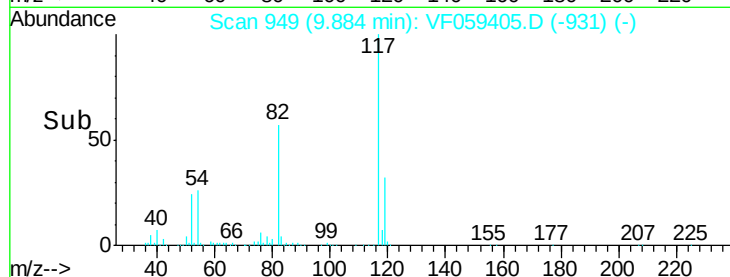
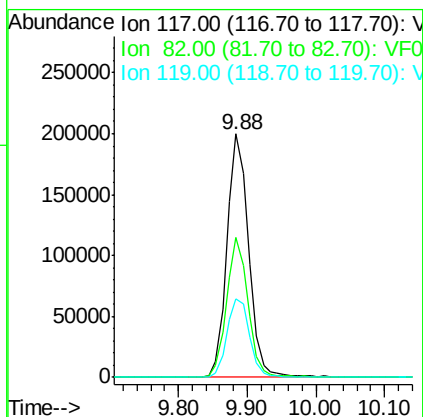
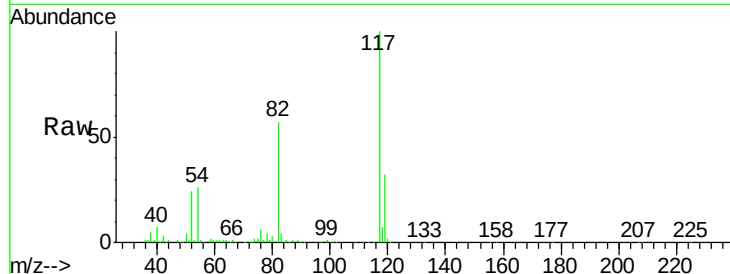




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.88 min Scan# 949
Delta R.T. -0.02 min
Lab File: VF059405.D
Acq: 3 Jul 2018 11:46

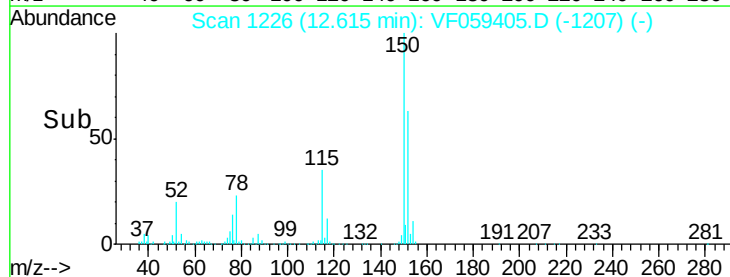
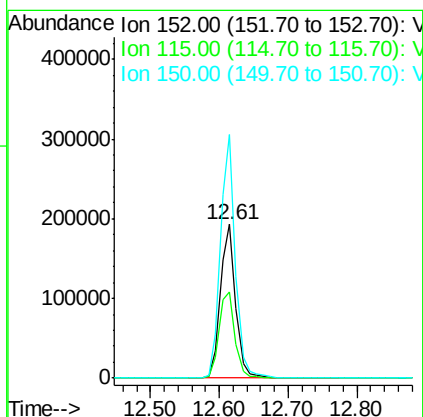
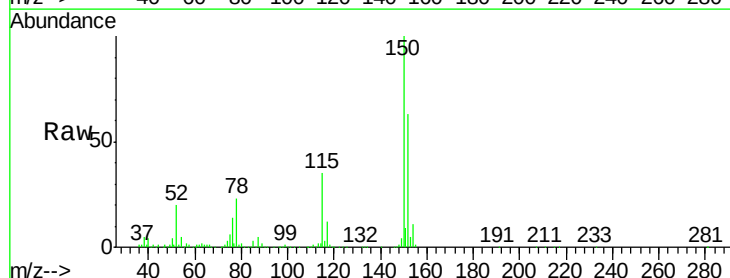
Instrument :
MSVOA_F
ClientSampled :
VF0703SBL01

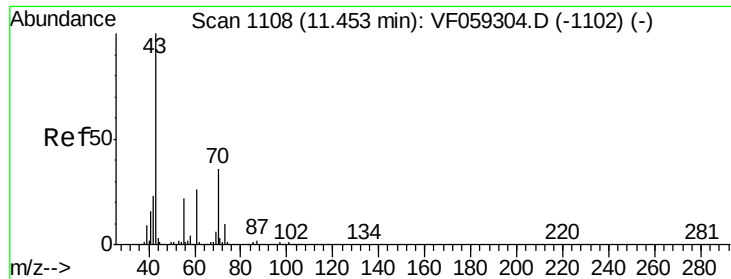
Tgt Ion:117 Resp: 436105
Ion Ratio Lower Upper
117 100
82 57.3 44.6 66.8
119 32.1 24.1 36.1



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.61 min Scan# 1226
Delta R.T. -0.01 min
Lab File: VF059405.D
Acq: 3 Jul 2018 11:46

Tgt Ion:152 Resp: 295211
Ion Ratio Lower Upper
152 100
115 55.7 27.1 81.3
150 158.4 0.0 305.2





#74

N-amyI acetate

Concen: 1.675 ug/l

RT: 11.44 min Scan# 1107

Delta R.T. -0.01 min

Lab File: VF059405.D

Acq: 3 Jul 2018 11:46

Instrument :

MSVOA_F

ClientSampleId :

VF0703SBL01

Tgt Ion: 43 Resp: 10455

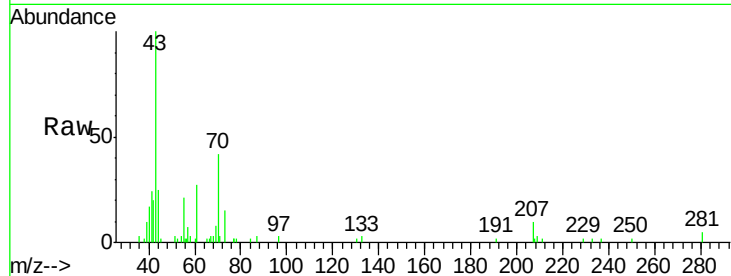
Ion Ratio Lower Upper

43 100

70 41.9 28.8 43.2

55 21.1 17.4 26.0

61 26.5 21.1 31.7

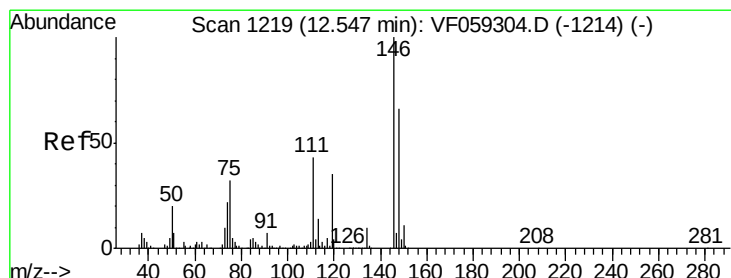
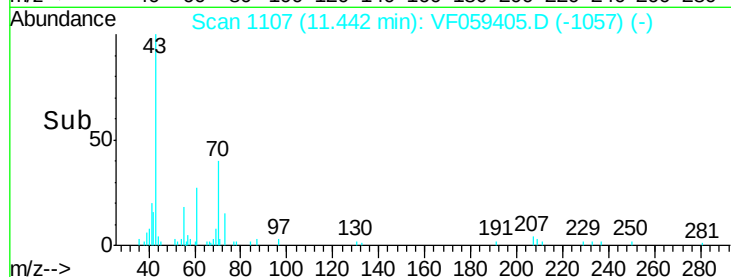
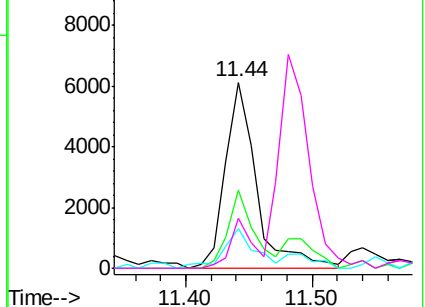


Abundance Ion 43.00 (42.70 to 43.70): VF0

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



#87

1,3-Dichlorobenzene

Concen: Below Cal

RT: 12.54 min Scan# 1218

Delta R.T. -0.01 min

Lab File: VF059405.D

Acq: 3 Jul 2018 11:46

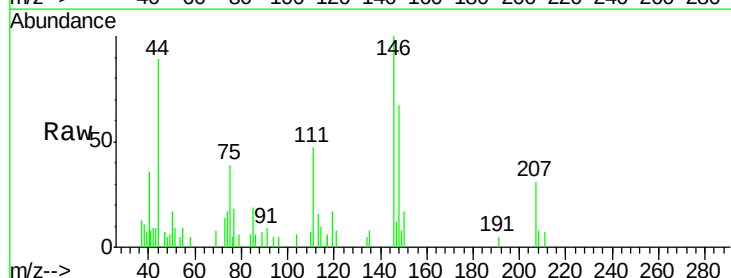
Tgt Ion: 146 Resp: 2519

Ion Ratio Lower Upper

146 100

111 47.4 21.4 64.2

148 66.8 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

