

Data File : VF060693.D
Acq On : 12 Nov 2018 19:32
Operator : VA/AP
Sample : J5766-01RE
Misc : 6.49g/5mL/MSVOA-F/SOIL
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_F
ClientSampleId :
HD-01-110918

Quant Time: Nov 13 04:18:08 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F110218S.M
Quant Title : SW846 8260
QLast Update : Sat Nov 03 05:29:31 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.86	168	229163	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.59	114	379855	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.76	117	342993	50.00	ug/l	-0.02
72) 1,4-Dichlorobenzene-d4	12.54	152	146735	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.83	65	128701	55.58	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	111.16%	
35) Dibromofluoromethane	4.10	113	150515	51.29	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.58%	
50) Toluene-d8	7.54	98	360293	41.44	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	82.88%	
62) 4-Bromofluorobenzene	11.41	95	159619	41.98	ug/l	0.00
Spiked Amount	50.000		Recovery	=	83.96%	

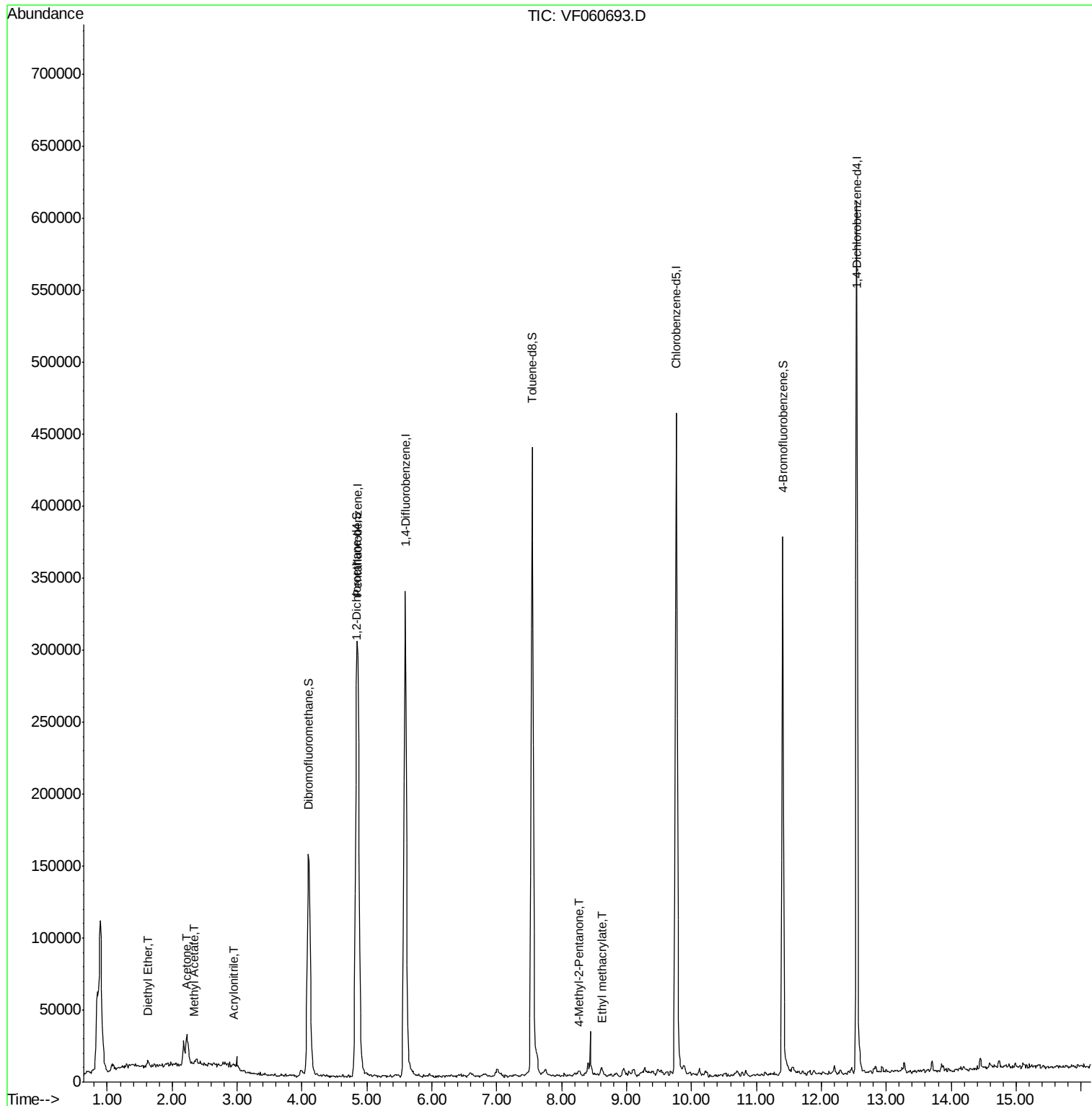
Target Compounds			Qvalue			
2) Dichlorodifluoromethane	0.95	85	125	Below Cal	#	41
8) Diethyl Ether	1.62	74	2039	3.180	ug/l	81
11) Tert butyl alcohol	2.54	59	95	Below Cal	#	1
13) Acrolein	1.99	56	924	Below Cal	#	75
15) Acrylonitrile	2.96	53	961	3.483	ug/l	# 36
16) Acetone	2.23	43	16025	29.371	ug/l	95
18) Methyl Acetate	2.33	43	781	1.392	ug/l	# 64
20) Methylene Chloride	2.24	84	6762	Below Cal		89
25) 2-Butanone	4.33	43	2534	Below Cal	#	86
29) Tetrahydrofuran	4.49	42	171	Below Cal		94
51) 4-Methyl-2-Pentanone	8.25	43	3719	2.178	ug/l	# 58
56) Ethyl methacrylate	8.62	69	3595	1.452	ug/l	# 82
58) 2-Chloroethyl Vinyl ether	7.62	63	1220	Below Cal		100
59) 2-Hexanone	9.49	43	4601	Below Cal		72
74) N-amyl acetate	11.36	43	2367	Below Cal	#	84
89) n-Butylbenzene	12.84	91	1433	Below Cal	#	68

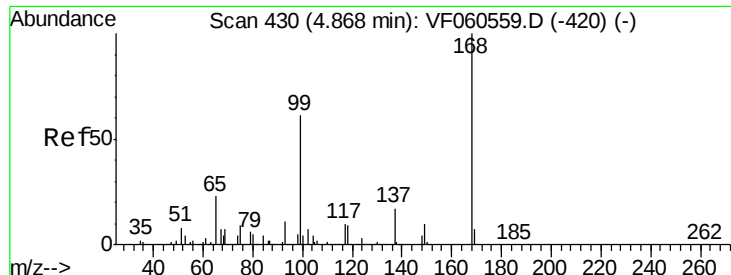
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.86 min Scan# 429

Delta R.T. -0.01 min

Lab File: VF060693.D

Acq: 12 Nov 2018 19:32

Instrument :

MSVOA_F

ClientSampleId :

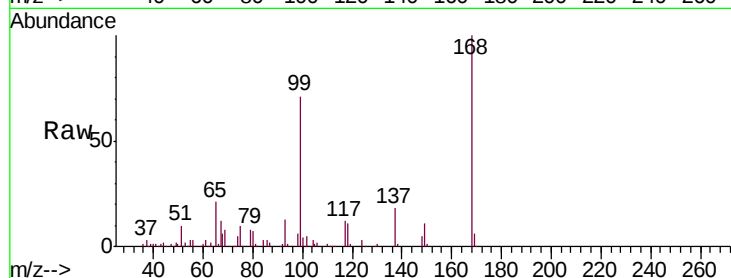
HD-01-110918

Tgt Ion:168 Resp: 229163

Ion Ratio Lower Upper

168 100

99 70.7 48.6 72.8



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.86

80000

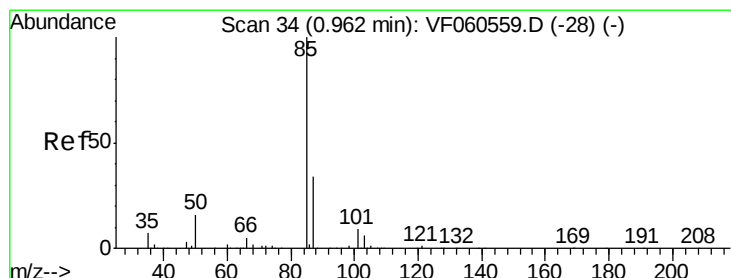
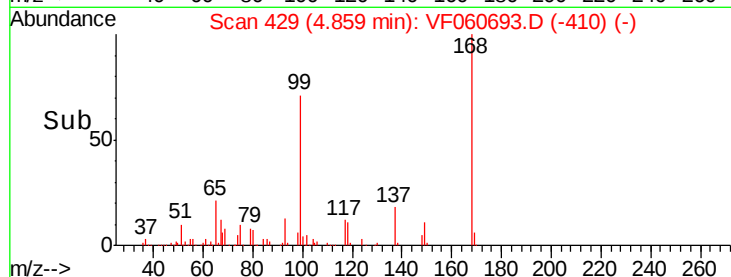
60000

40000

20000

0

Time-->



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 0.95 min Scan# 33

Delta R.T. -0.01 min

Lab File: VF060693.D

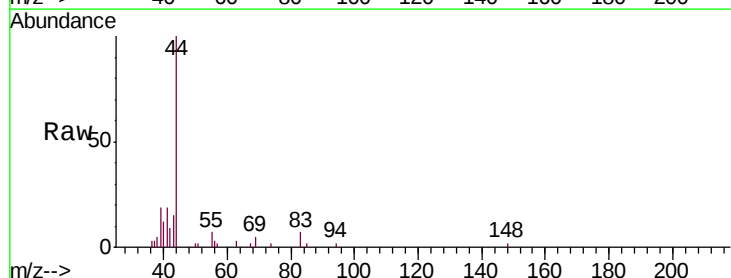
Acq: 12 Nov 2018 19:32

Tgt Ion: 85 Resp: 125

Ion Ratio Lower Upper

85 100

87 0.0 16.9 50.7#



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

0.95

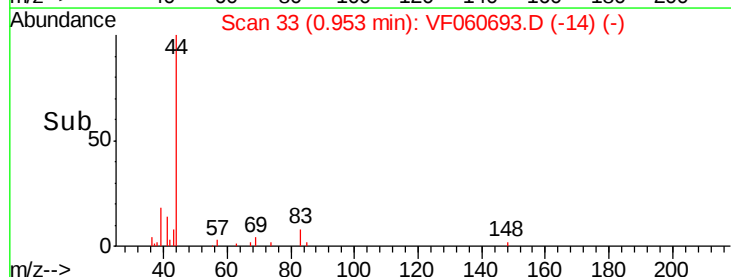
150

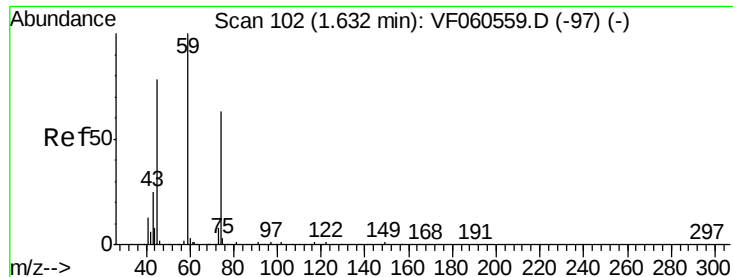
100

50

0

Time-->





#8

Diethyl Ether

Concen: 3.180 ug/l

RT: 1.62 min Scan# 101

Delta R.T. -0.01 min

Lab File: VF060693.D

Acq: 12 Nov 2018 19:32

Instrument :

MSVOA_F

ClientSampleId :

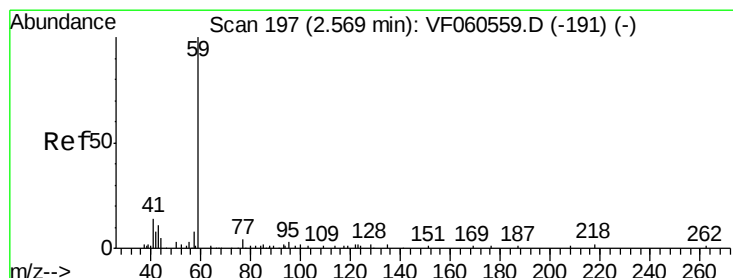
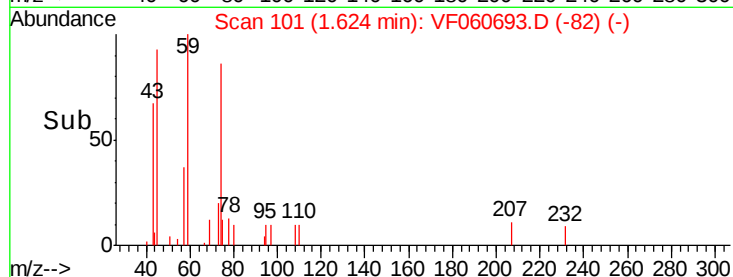
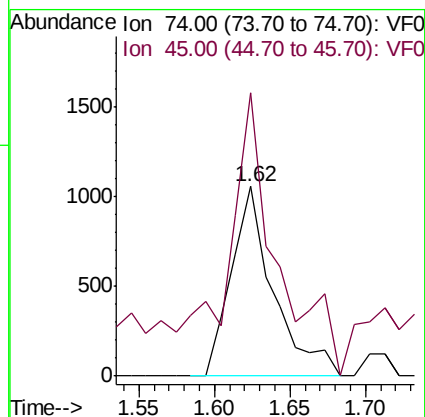
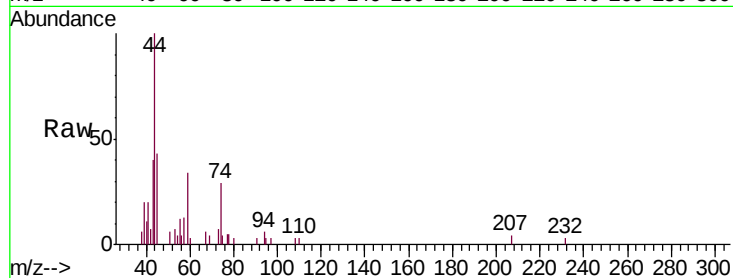
HD-01-110918

Tgt Ion: 74 Resp: 2039

Ion Ratio Lower Upper

74 100

45 149.4 63.8 191.5



#11

Tert butyl alcohol

Concen: Below Cal

RT: 2.54 min Scan# 194

Delta R.T. -0.03 min

Lab File: VF060693.D

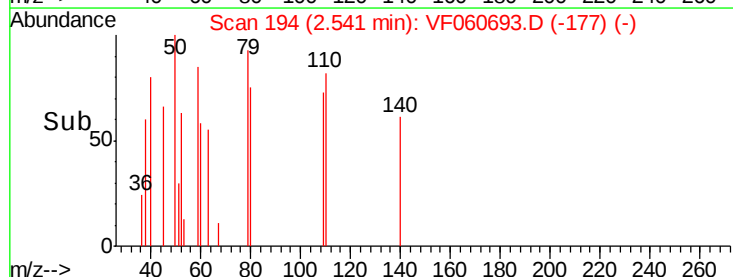
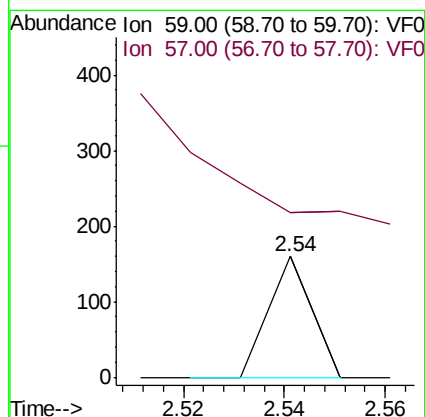
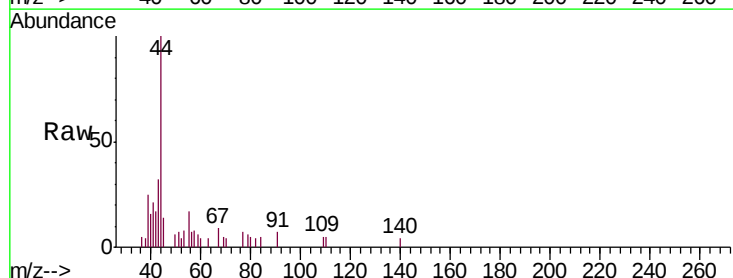
Acq: 12 Nov 2018 19:32

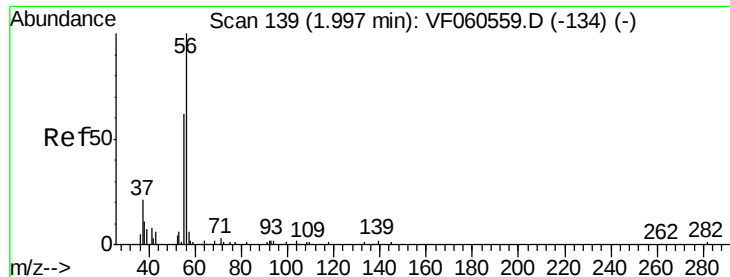
Tgt Ion: 59 Resp: 95

Ion Ratio Lower Upper

59 100

57 136.3 19.0 28.4#





#13

Acrolein

Concen: Below Cal

RT: 1.99 min Scan# 138

Delta R.T. -0.01 min

Lab File: VF060693.D

Acq: 12 Nov 2018 19:32

Instrument :

MSVOA_F

ClientSampleId :

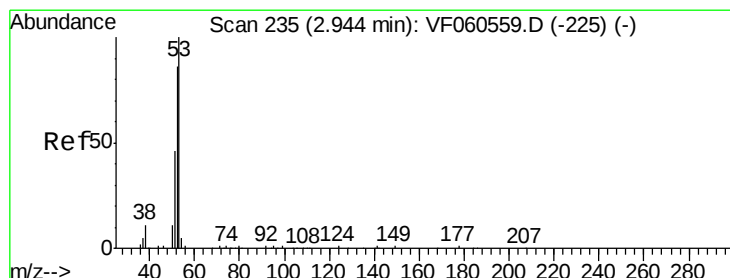
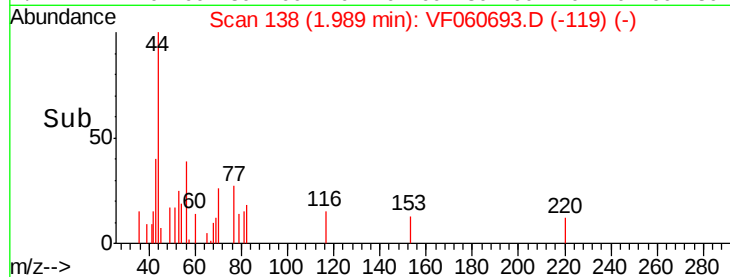
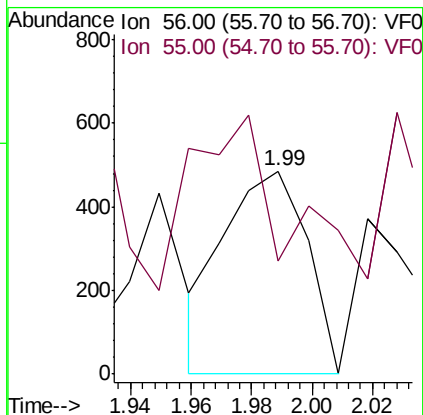
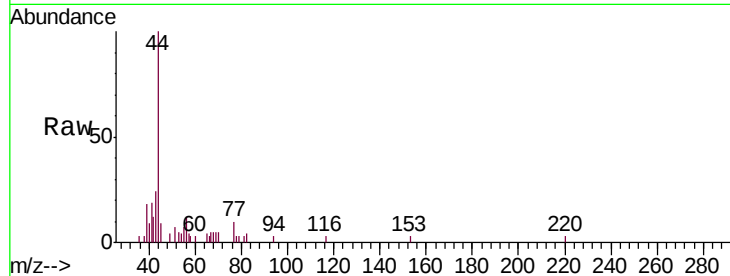
HD-01-110918

Tgt Ion: 56 Resp: 924

Ion Ratio Lower Upper

56 100

55 55.8 61.8 92.6#



#15

Acrylonitrile

Concen: 3.483 ug/l

RT: 2.96 min Scan# 236

Delta R.T. 0.01 min

Lab File: VF060693.D

Acq: 12 Nov 2018 19:32

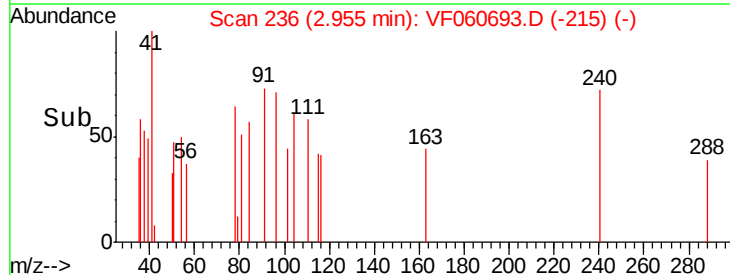
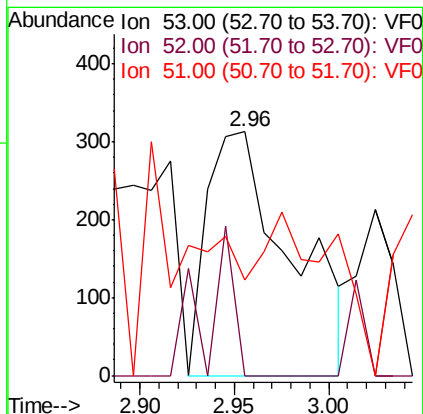
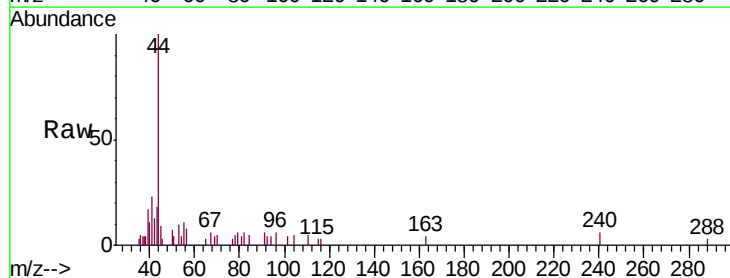
Tgt Ion: 53 Resp: 961

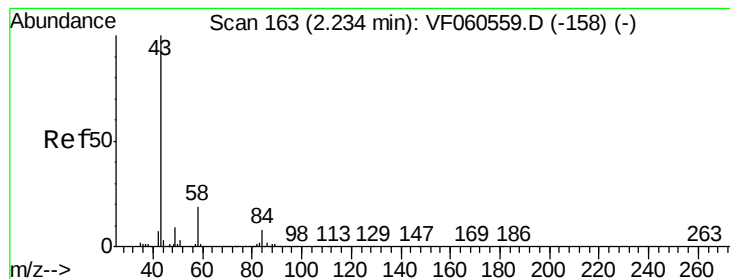
Ion Ratio Lower Upper

53 100

52 0.0 68.5 102.7#

51 39.3 38.2 57.2





#16

Acetone

Concen: 29.371 ug/l

RT: 2.23 min Scan# 162

Delta R.T. -0.01 min

Lab File: VF060693.D

Acq: 12 Nov 2018 19:32

Instrument :

MSVOA_F

ClientSampleId :

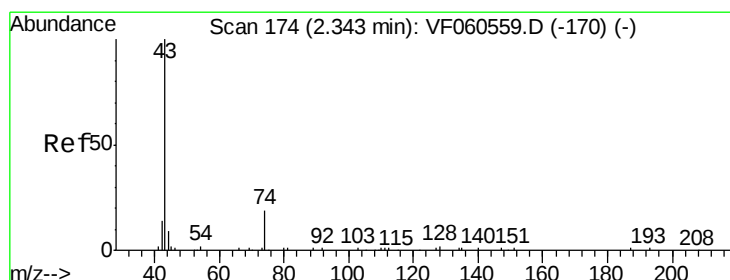
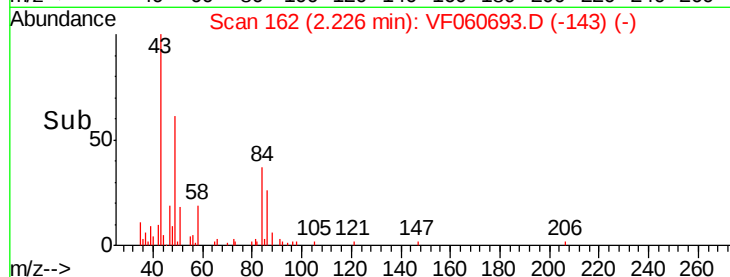
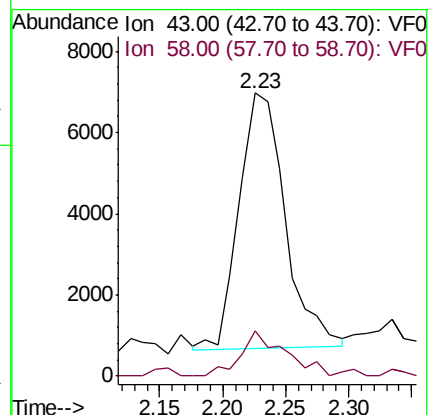
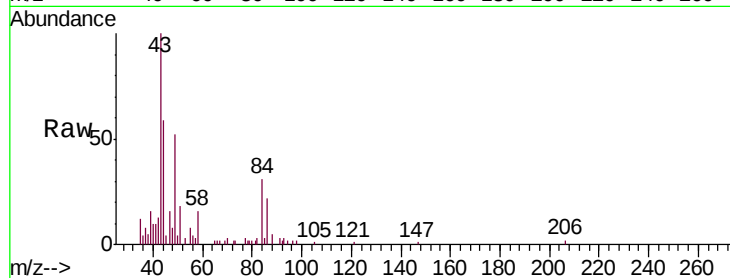
HD-01-110918

Tgt Ion: 43 Resp: 16025

Ion Ratio Lower Upper

43 100

58 16.1 14.6 22.0



#18

Methyl Acetate

Concen: 1.392 ug/l

RT: 2.33 min Scan# 173

Delta R.T. -0.01 min

Lab File: VF060693.D

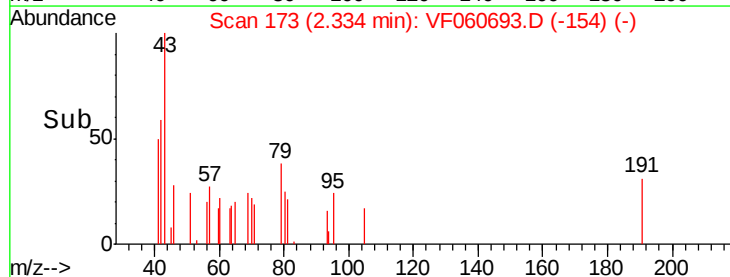
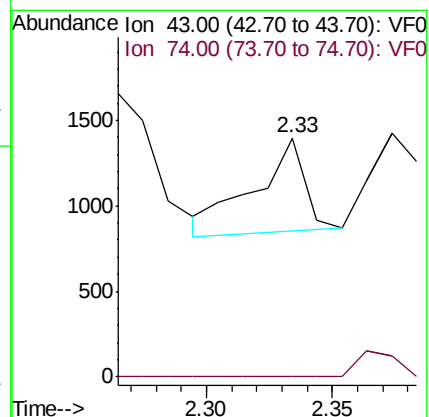
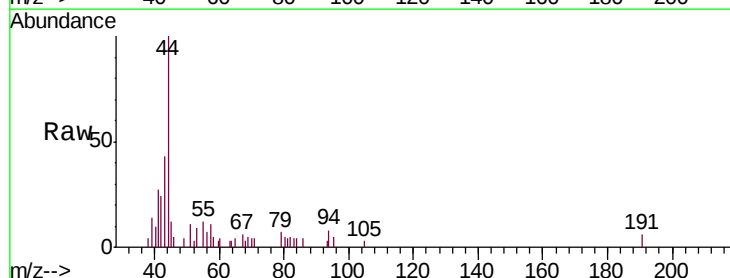
Acq: 12 Nov 2018 19:32

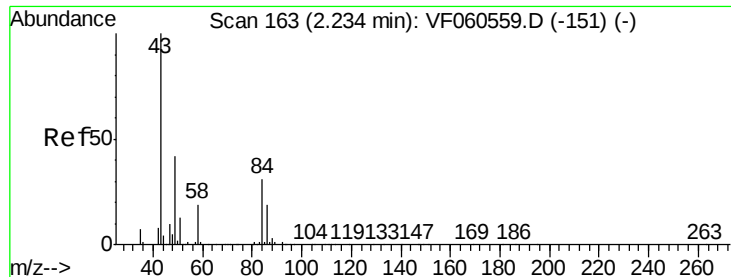
Tgt Ion: 43 Resp: 781

Ion Ratio Lower Upper

43 100

74 0.0 12.1 18.1#

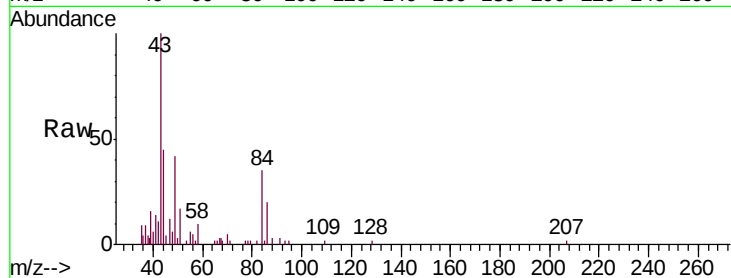




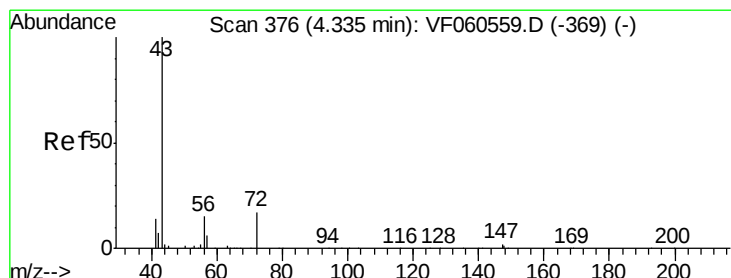
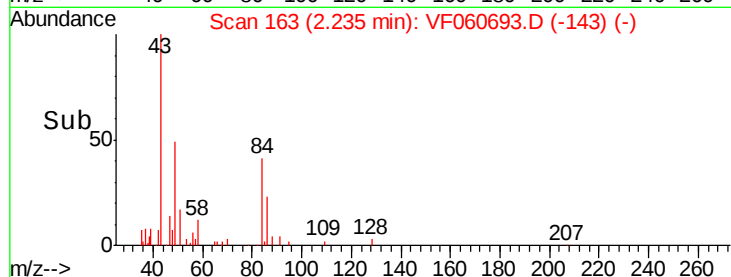
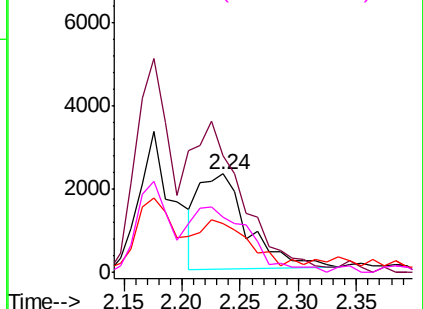
#20
Methylene Chloride
Concen: Below Cal
RT: 2.24 min Scan# 163
Delta R.T. 0.00 min
Lab File: VF060693.D
Acq: 12 Nov 2018 19:32

Instrument :
MSVOA_F
ClientSampleId :
HD-01-110918

Tgt Ion: 84 Resp: 6762
Ion Ratio Lower Upper
84 100
49 119.1 109.9 164.9
51 49.3 35.8 53.8
86 56.3 48.3 72.5

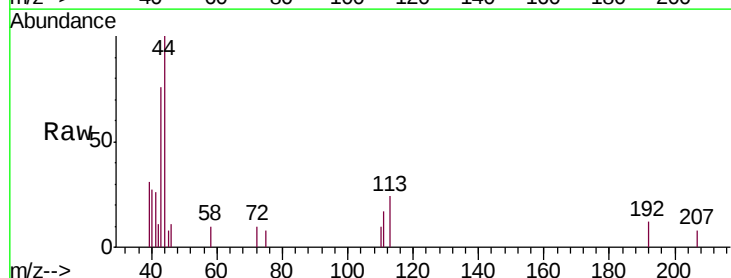


Abundance Ion 84.00 (83.70 to 84.70): VF0
Ion 49.00 (48.70 to 49.70): VF0
Ion 51.00 (50.70 to 51.70): VF0
Ion 86.00 (85.70 to 86.70): VF0

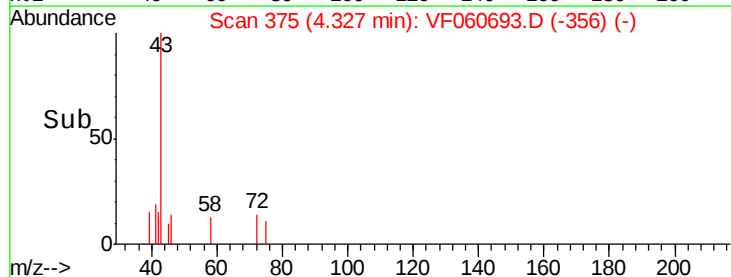
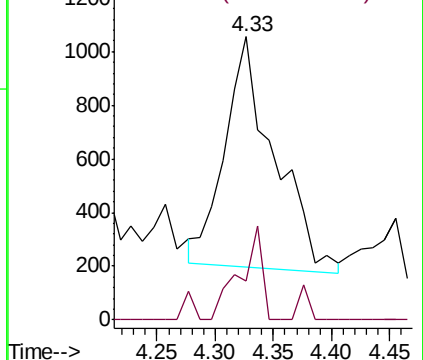


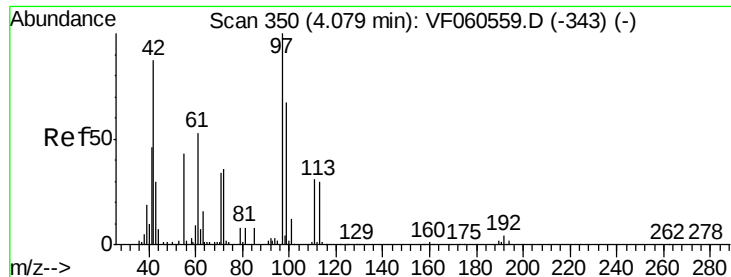
#25
2-Butanone
Concen: Below Cal
RT: 4.33 min Scan# 375
Delta R.T. -0.01 min
Lab File: VF060693.D
Acq: 12 Nov 2018 19:32

Tgt Ion: 43 Resp: 2534
Ion Ratio Lower Upper
43 100
72 13.6 16.2 24.2#



Abundance Ion 43.00 (42.70 to 43.70): VF0
Ion 72.00 (71.70 to 72.70): VF0





#29

Tetrahydrofuran

Concen: Below Cal

RT: 4.49 min Scan# 392

Delta R.T. 0.42 min

Lab File: VF060693.D

Acq: 12 Nov 2018 19:32

Instrument :

MSVOA_F

ClientSampleId :

HD-01-110918

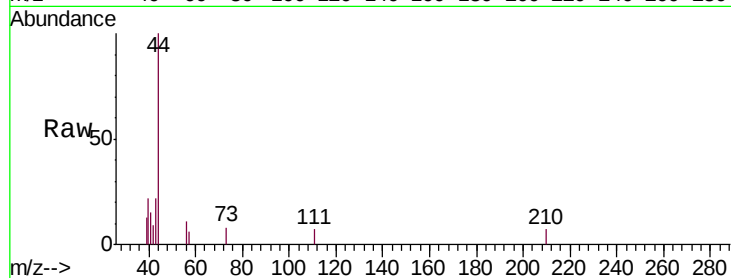
Tgt Ion: 42 Resp: 171

Ion Ratio Lower Upper

42 100

72 36.8 31.4 47.0

71 44.4 31.8 47.6

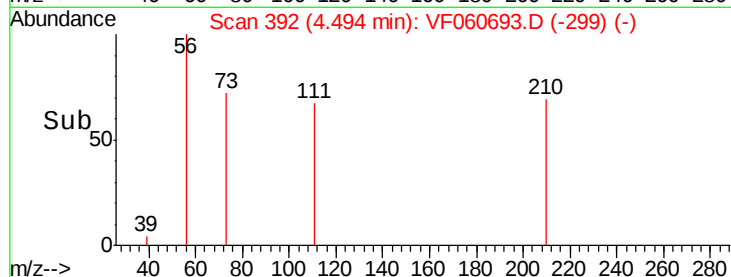
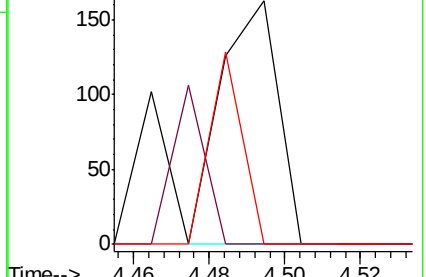


Abundance Ion 42.00 (41.70 to 42.70): VF0

Ion 72.00 (71.70 to 72.70): VF0

Ion 71.00 (70.70 to 71.70): VF0

4.49



#33

1,2-Dichloroethane-d4

Concen: 55.585 ug/l

RT: 4.83 min Scan# 426

Delta R.T. -0.02 min

Lab File: VF060693.D

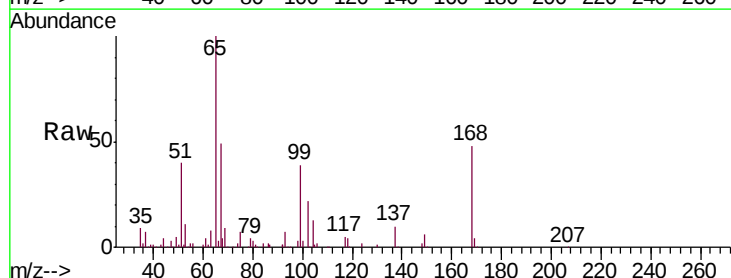
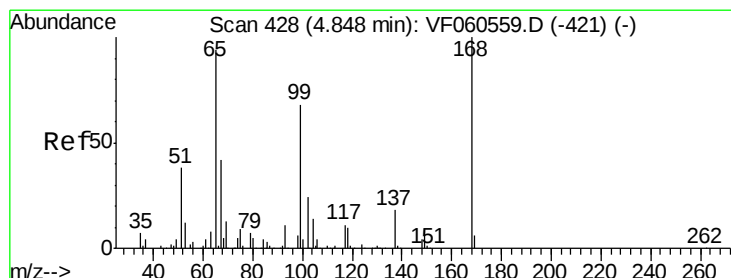
Acq: 12 Nov 2018 19:32

Tgt Ion: 65 Resp: 128701

Ion Ratio Lower Upper

65 100

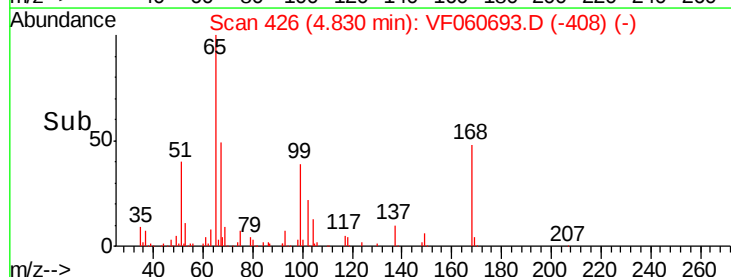
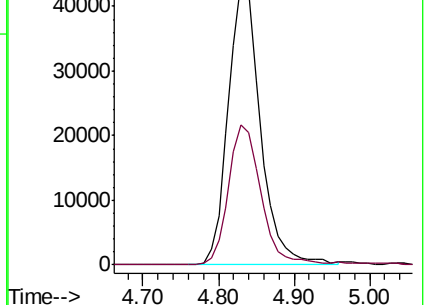
67 49.5 0.0 101.8

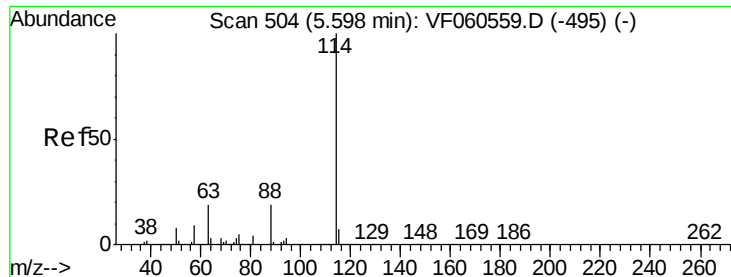


Abundance Ion 65.00 (64.70 to 65.70): VF0

Ion 67.00 (66.70 to 67.70): VF0

4.83





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.59 min Scan# 503

Delta R.T. -0.01 min

Lab File: VF060693.D

Acq: 12 Nov 2018 19:32

Instrument :

MSVOA_F

ClientSampleId :

HD-01-110918

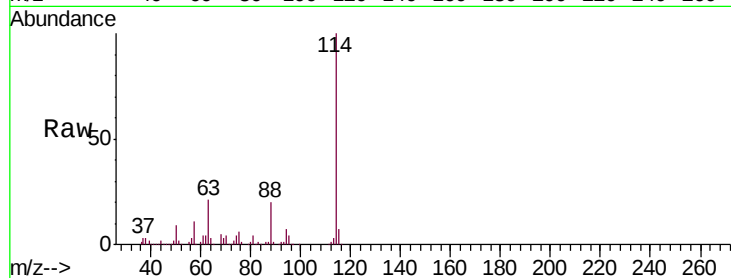
Tgt Ion:114 Resp: 379855

Ion Ratio Lower Upper

114 100

63 21.5 0.0 39.0

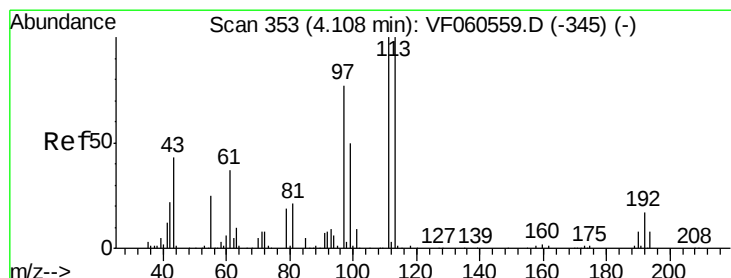
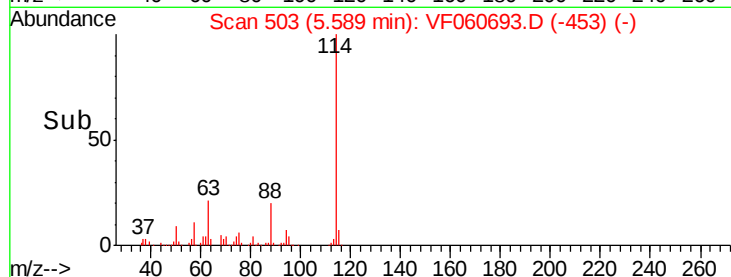
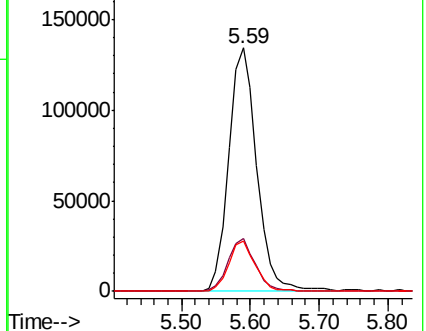
88 20.5 0.0 38.2



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: 51.287 ug/l

RT: 4.10 min Scan# 352

Delta R.T. -0.01 min

Lab File: VF060693.D

Acq: 12 Nov 2018 19:32

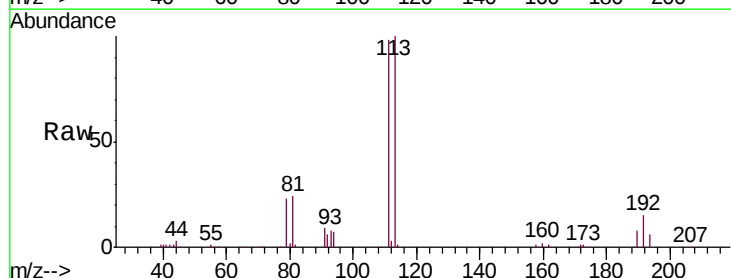
Tgt Ion:113 Resp: 150515

Ion Ratio Lower Upper

113 100

111 98.1 79.9 119.9

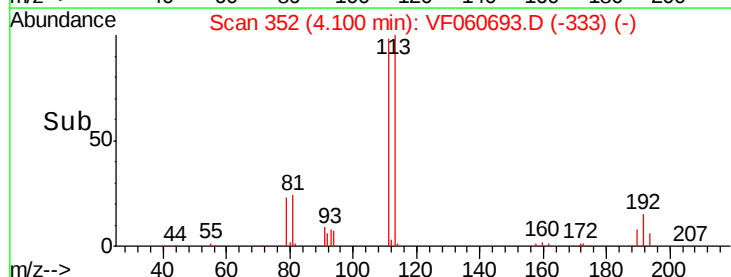
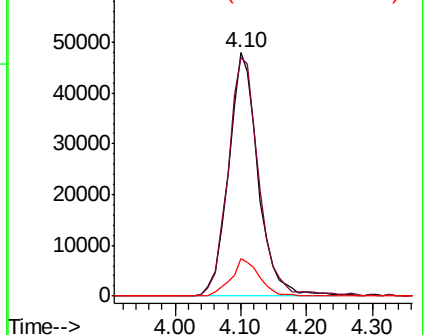
192 15.2 13.3 19.9

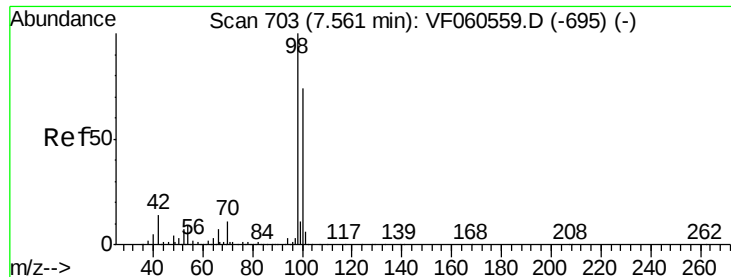


Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V

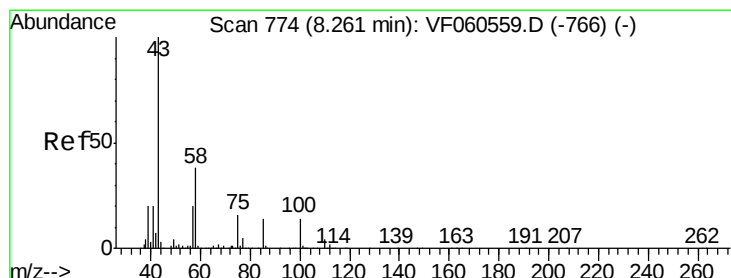
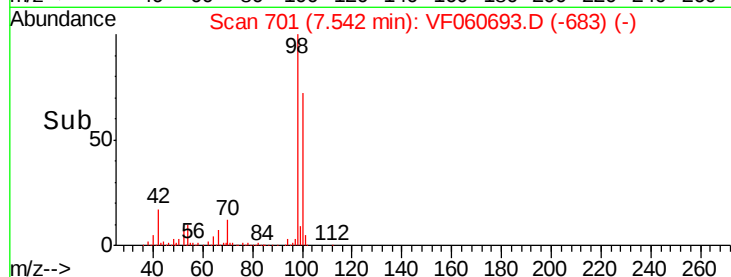
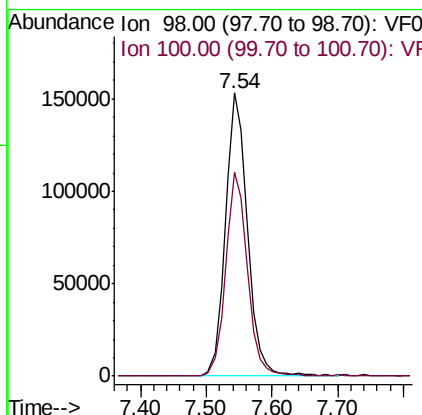
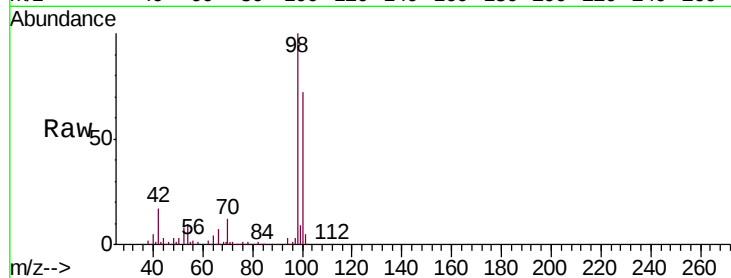




#50
Toluene-d8
Concen: 41.443 ug/l
RT: 7.54 min Scan# 701
Delta R.T. -0.02 min
Lab File: VF060693.D
Acq: 12 Nov 2018 19:32

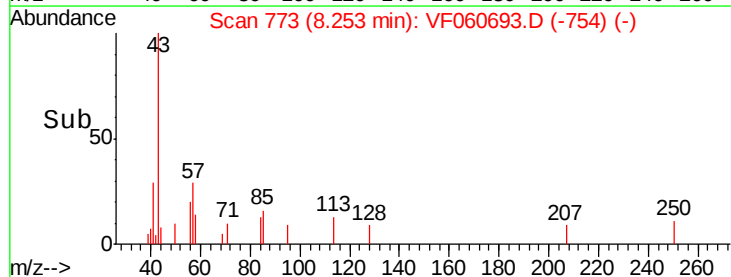
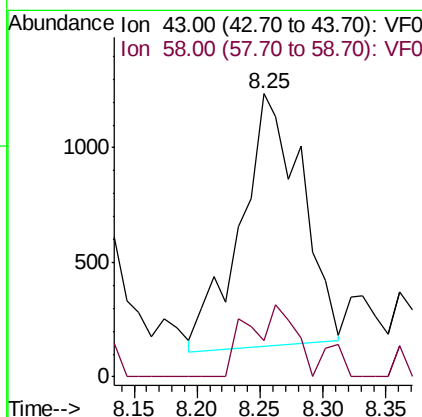
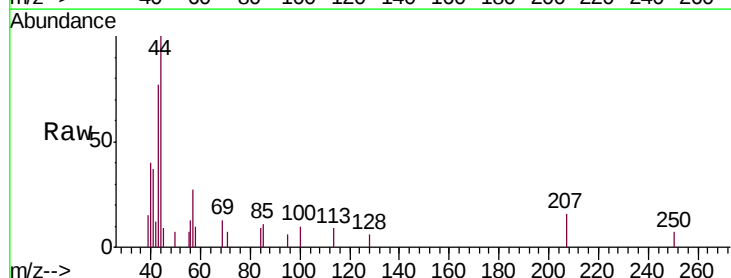
Instrument :
MSVOA_F
ClientSampleId :
HD-01-110918

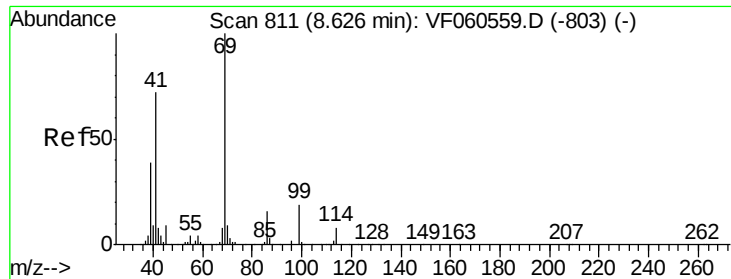
Tgt Ion: 98 Resp: 360293
Ion Ratio Lower Upper
98 100
100 72.0 59.4 89.2



#51
4-Methyl-2-Pentanone
Concen: 2.178 ug/l
RT: 8.25 min Scan# 773
Delta R.T. -0.01 min
Lab File: VF060693.D
Acq: 12 Nov 2018 19:32

Tgt Ion: 43 Resp: 3719
Ion Ratio Lower Upper
43 100
58 12.6 30.1 45.1#





#56

Ethyl methacrylate

Concen: 1.452 ug/l

RT: 8.62 min Scan# 810

Delta R.T. -0.01 min

Lab File: VF060693.D

Acq: 12 Nov 2018 19:32

Instrument :

MSVOA_F

ClientSampleId :

HD-01-110918

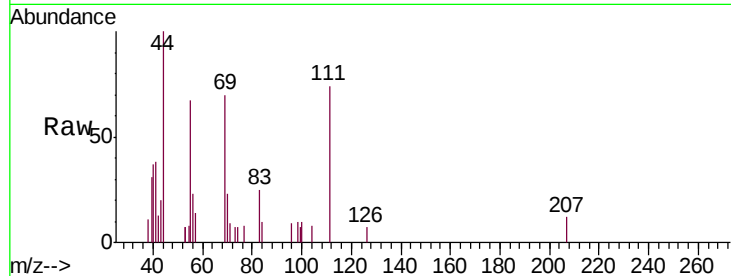
Tgt Ion: 69 Resp: 3595

Ion Ratio Lower Upper

69 100

41 54.3 59.2 88.8#

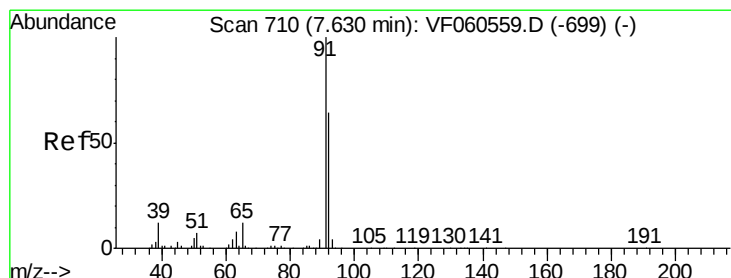
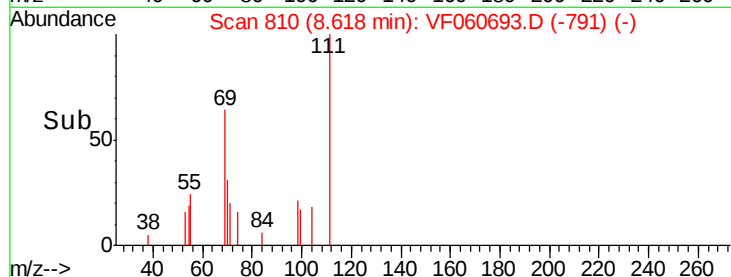
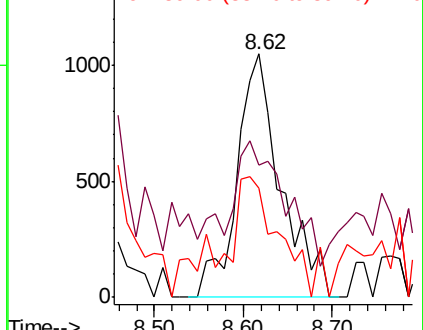
39 45.0 32.3 48.5



Abundance Ion 69.00 (68.70 to 69.70): VF0

Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0



#58

2-Chloroethyl Vinyl ether

Concen: Below Cal

RT: 7.62 min Scan# 709

Delta R.T. -0.01 min

Lab File: VF060693.D

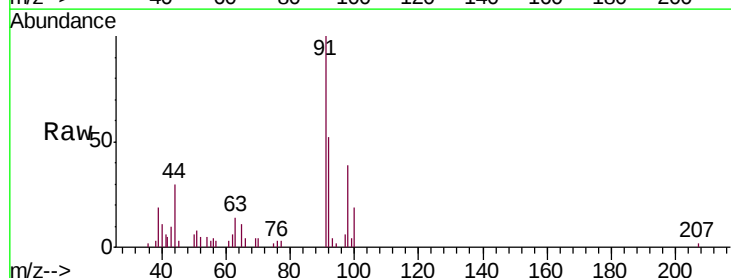
Acq: 12 Nov 2018 19:32

Tgt Ion: 63 Resp: 1220

Ion Ratio Lower Upper

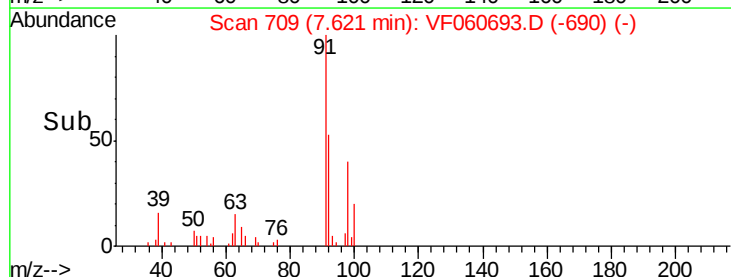
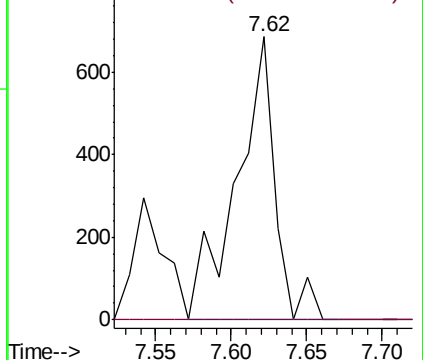
63 100

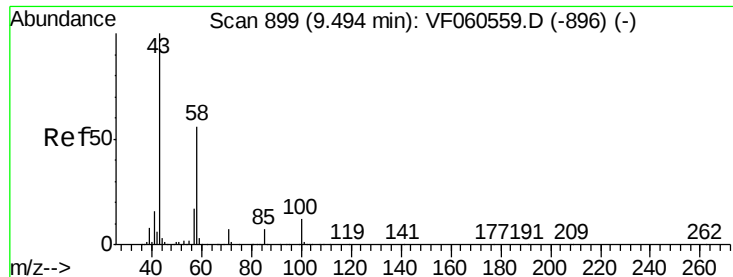
106 0.0 0.0 0.0



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: 9.49 min Scan# 898

Delta R.T. -0.01 min

Lab File: VF060693.D

Acq: 12 Nov 2018 19:32

Instrument :

MSVOA_F

ClientSampleId :

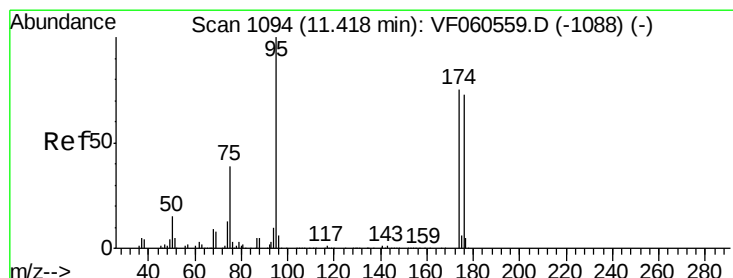
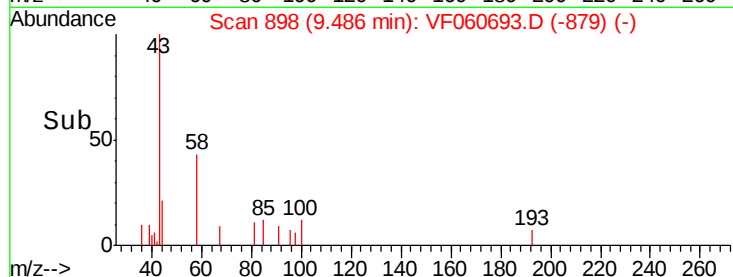
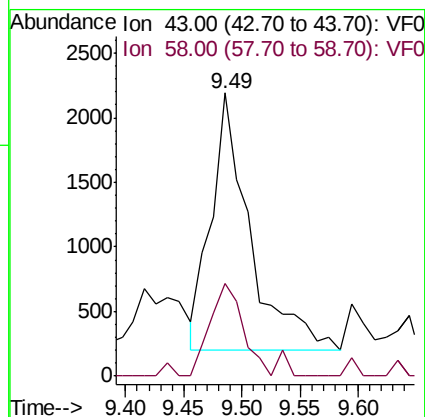
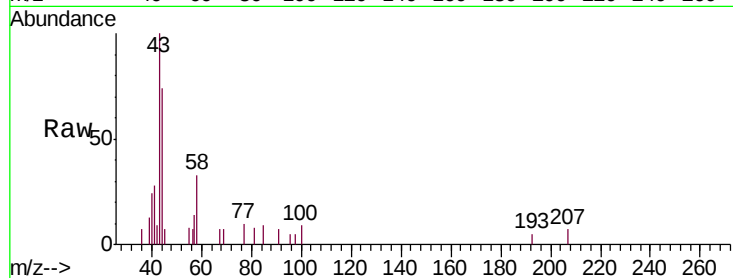
HD-01-110918

Tgt Ion: 43 Resp: 4601

Ion Ratio Lower Upper

43 100

58 32.8 26.1 78.3



#62

4-Bromofluorobenzene

Concen: 41.975 ug/l

RT: 11.41 min Scan# 1093

Delta R.T. -0.01 min

Lab File: VF060693.D

Acq: 12 Nov 2018 19:32

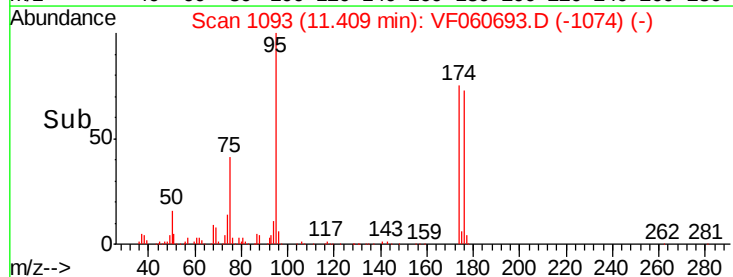
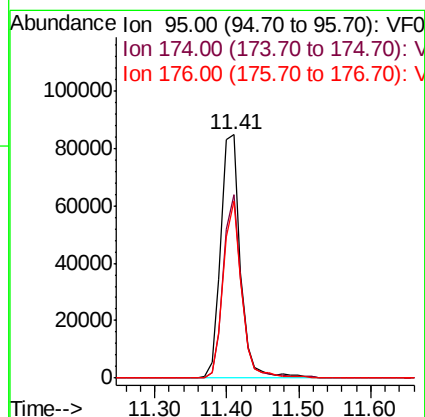
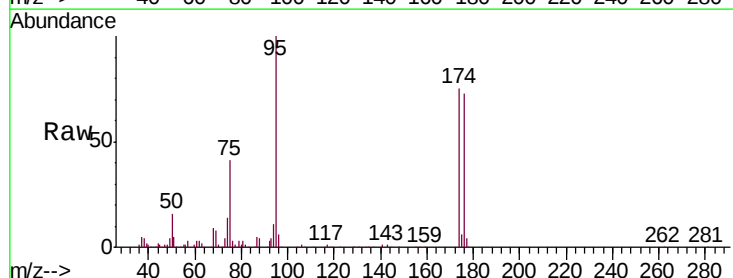
Tgt Ion: 95 Resp: 159619

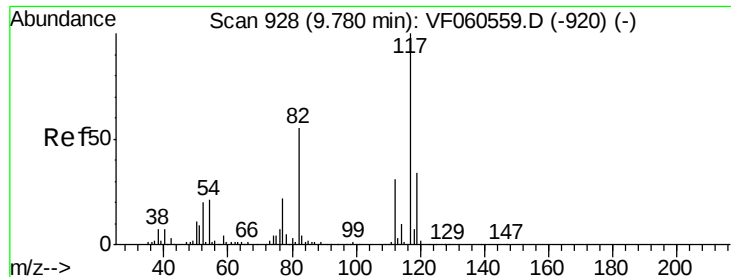
Ion Ratio Lower Upper

95 100

174 75.4 0.0 149.0

176 72.6 0.0 145.6

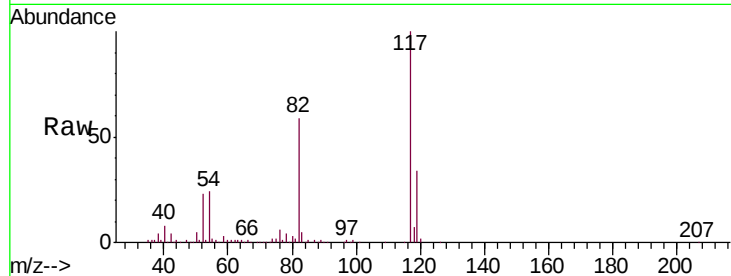




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.76 min Scan# 926
Delta R.T. -0.02 min
Lab File: VF060693.D
Acq: 12 Nov 2018 19:32

Instrument :
MSVOA_F
ClientSampleId :
HD-01-110918

Tgt Ion	Ratio	Lower	Upper
117	100		
82	58.8	43.9	65.9
119	34.1	27.4	41.0

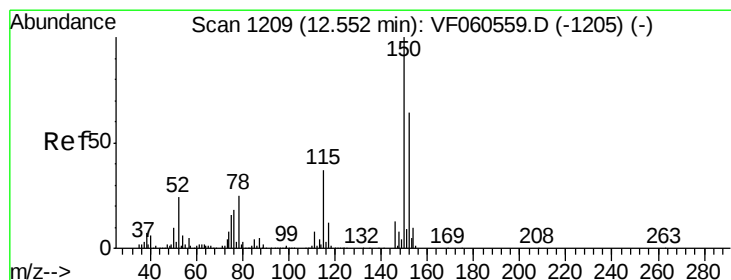
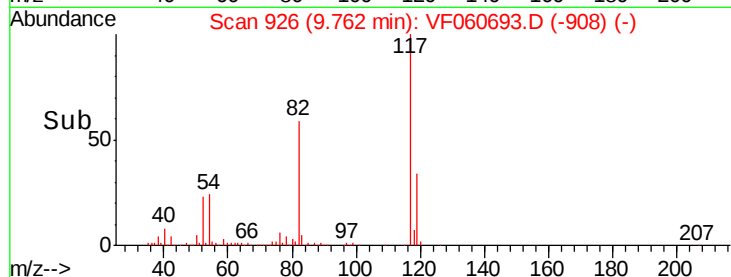
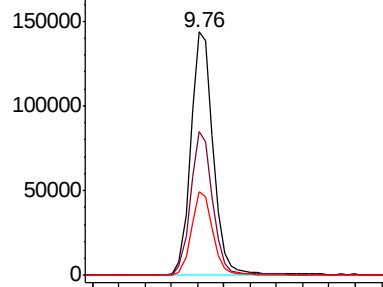


Abundance

Ion 117.00 (116.70 to 117.70): V

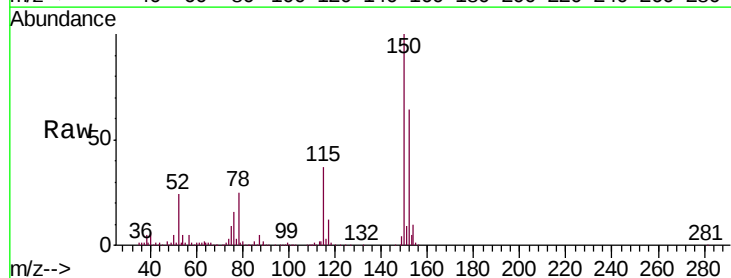
Ion 82.00 (81.70 to 82.70): VF0

Ion 119.00 (118.70 to 119.70): V



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.54 min Scan# 1208
Delta R.T. -0.01 min
Lab File: VF060693.D
Acq: 12 Nov 2018 19:32

Tgt Ion	Ratio	Lower	Upper
152	100		
115	57.5	29.6	88.8
150	156.7	0.0	315.6

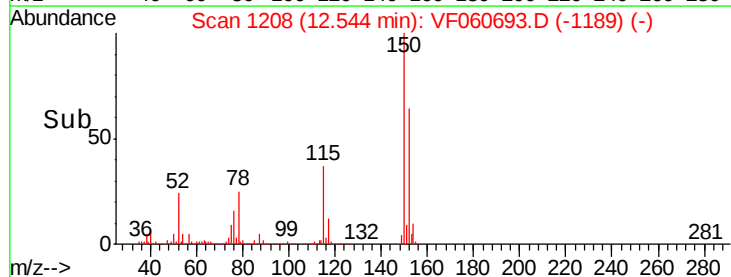
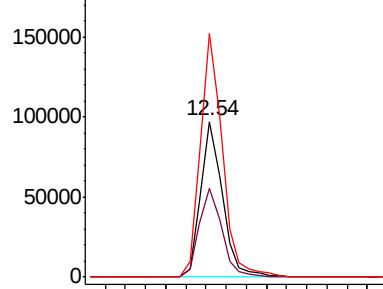


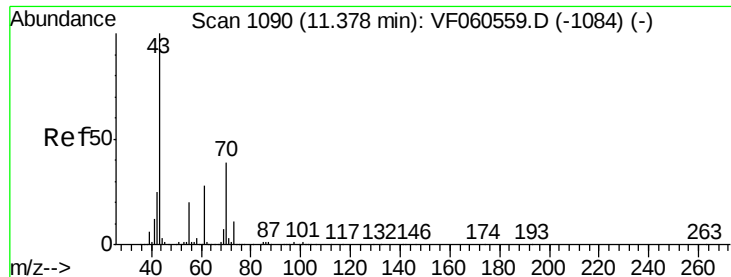
Abundance

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-amyI acetate

Concen: Below Cal

RT: 11.36 min Scan# 1088

Delta R.T. -0.02 min

Lab File: VF060693.D

Acq: 12 Nov 2018 19:32

Instrument :

MSVOA_F

ClientSampleId :

HD-01-110918

Tgt Ion: 43 Resp: 2367

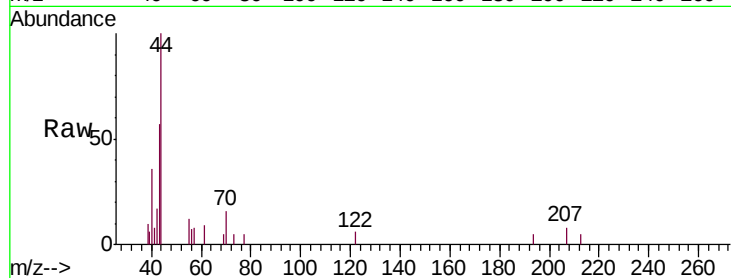
Ion Ratio Lower Upper

43 100

70 27.4 30.9 46.3#

55 21.7 16.6 24.8

61 16.2 22.0 33.0#



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

