

Data File : VF060696.D
Acq On : 12 Nov 2018 20:58
Operator : VA/AP
Sample : J5907-07RE
Misc : 11.3g/5mL/MSVOA-F/SOIL
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_F
ClientSampleId :
TP-3-SRE

Quant Time: Nov 13 04:19:14 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	97294	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.59	114	132010	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.76	117	99588	50.00	ug/l	-0.02
72) 1,4-Dichlorobenzene-d4	12.55	152	29688	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.83	65	31444	31.99	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	63.98%	
35) Dibromofluoromethane	4.10	113	42124	41.30	ug/l	0.00
Spiked Amount	50.000		Recovery	=	82.60%	
50) Toluene-d8	7.54	98	119910	39.69	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	79.38%	
62) 4-Bromofluorobenzene	11.40	95	35796	27.09	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	54.18%	

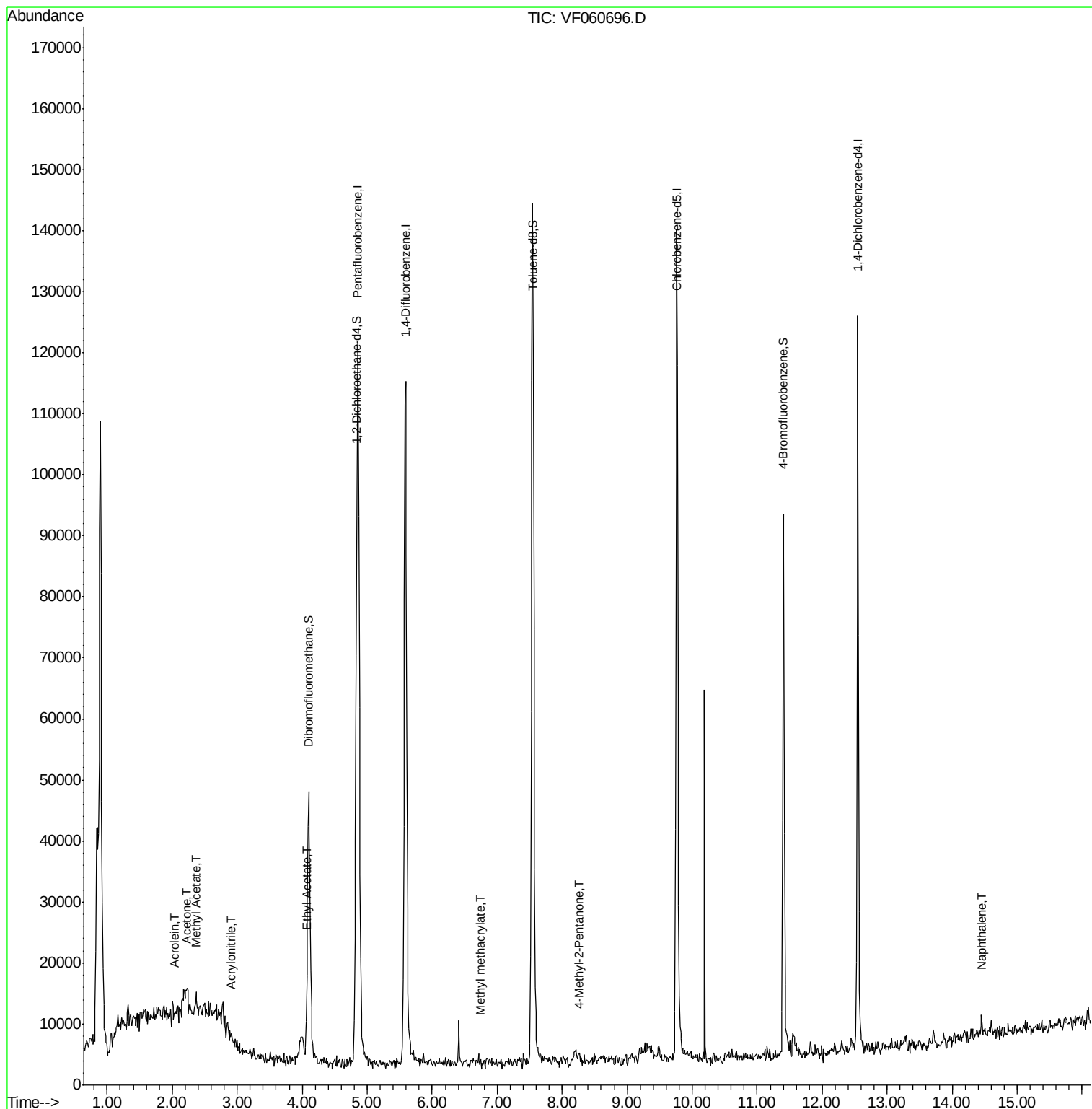
Target Compounds			Qvalue			
2) Dichlorodifluoromethane	0.95	85	170	Below Cal	#	41
6) Chloroethane	1.31	64	85	Below Cal	#	9
11) Tert butyl alcohol	2.55	59	73	Below Cal	#	1
13) Acrolein	2.03	56	1188	3.632	ug/l	91
15) Acrylonitrile	2.92	53	217	1.852	ug/l #	70
16) Acetone	2.23	43	4756	20.532	ug/l #	86
18) Methyl Acetate	2.38	43	1577	4.820	ug/l #	64
20) Methylene Chloride	2.19	84	1970	Below Cal	#	87
25) 2-Butanone	4.32	43	869	Below Cal	#	56
29) Tetrahydrofuran	4.07	42	944	Below Cal	#	48
37) Ethyl Acetate	4.06	43	1441	2.065	ug/l #	17
48) Methyl methacrylate	6.74	41	734	1.323	ug/l #	45
51) 4-Methyl-2-Pentanone	8.25	43	1256	2.116	ug/l	96
58) 2-Chloroethyl Vinyl ether	7.57	63	61	Below Cal		100
59) 2-Hexanone	9.49	43	2298	Below Cal		80
74) N-amyl acetate	11.35	43	531	Below Cal	#	44
95) Naphthalene	14.45	128	2034	1.608	ug/l #	81

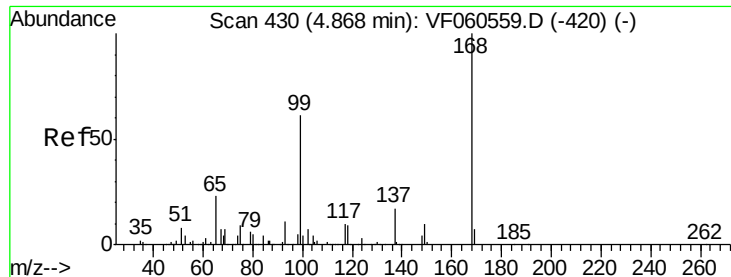
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VF060696.D

Acq: 12 Nov 2018 20:58

Instrument :

MSVOA_F

ClientSampleId :

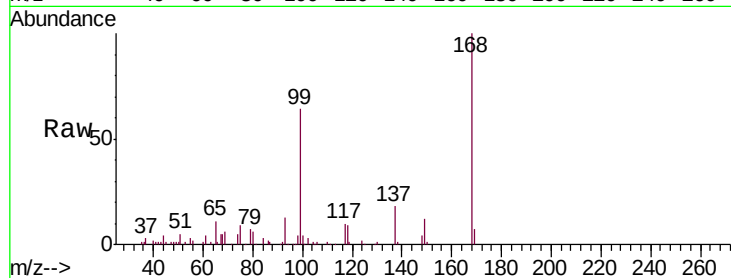
TP-3-SRE

Tgt Ion:168 Resp: 97294

Ion Ratio Lower Upper

168 100

99 64.3 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

30000

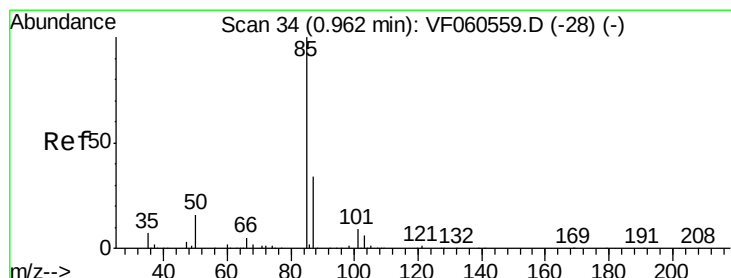
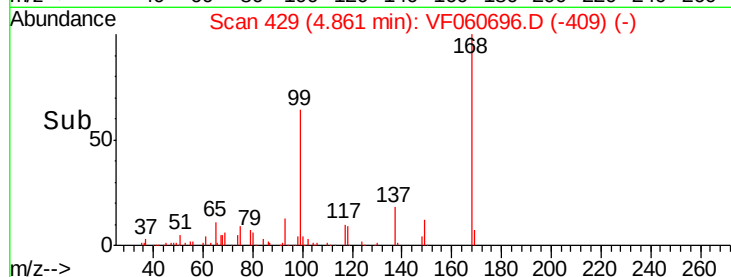
20000

10000

0

4.70 4.80 4.90 5.00 5.10

Time-->



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 0.95 min Scan# 33

Delta R.T. -0.01 min

Lab File: VF060696.D

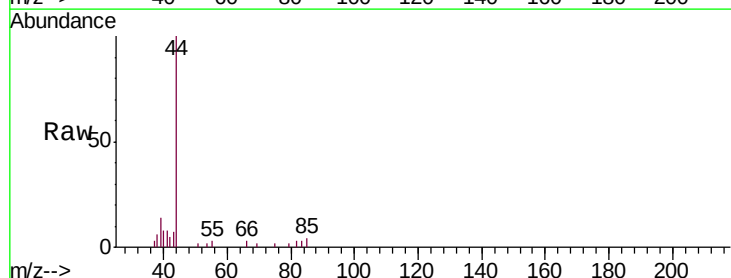
Acq: 12 Nov 2018 20:58

Tgt Ion: 85 Resp: 170

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

200

150

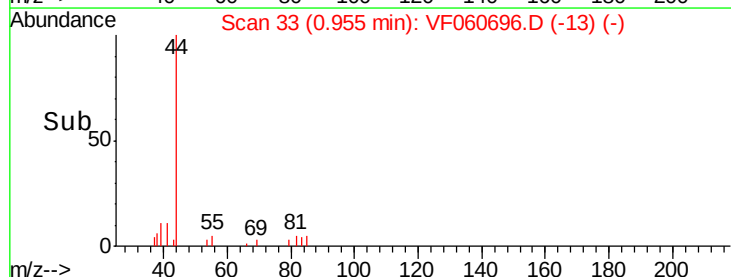
100

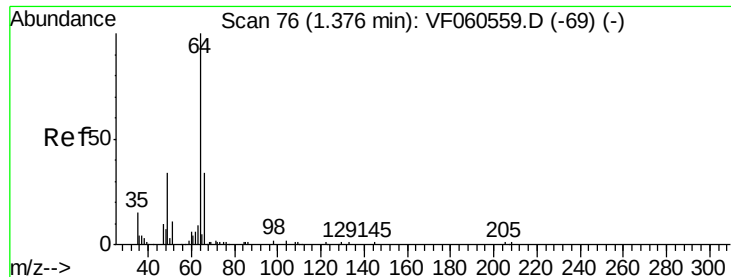
50

0

0.95 1.00

Time-->





#6

Chloroethane

Concen: Below Cal

RT: 1.31 min Scan# 69

Delta R.T. -0.06 min

Lab File: VF060696.D

Acq: 12 Nov 2018 20:58

Instrument :

MSVOA_F

ClientSampleId :

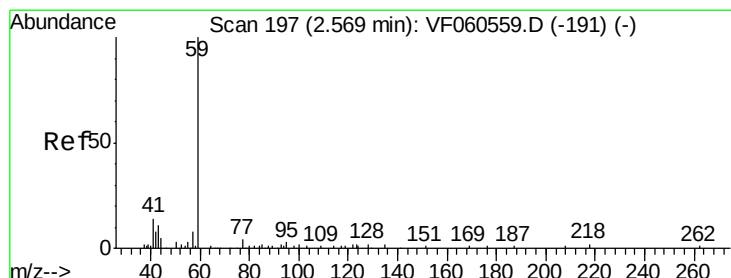
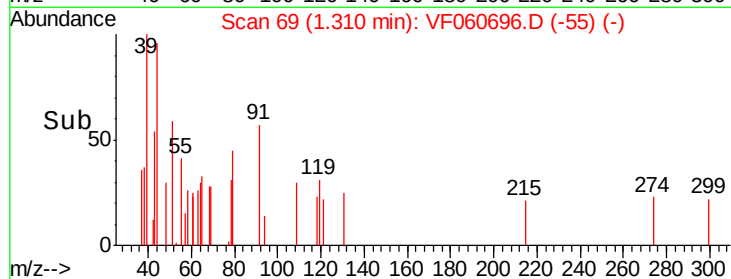
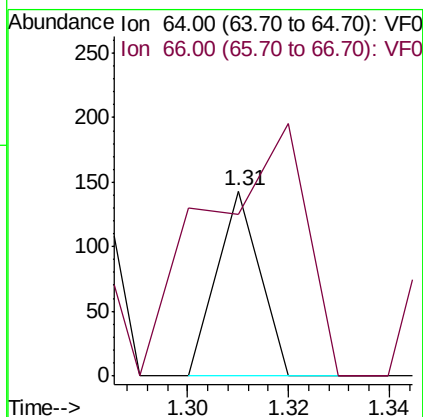
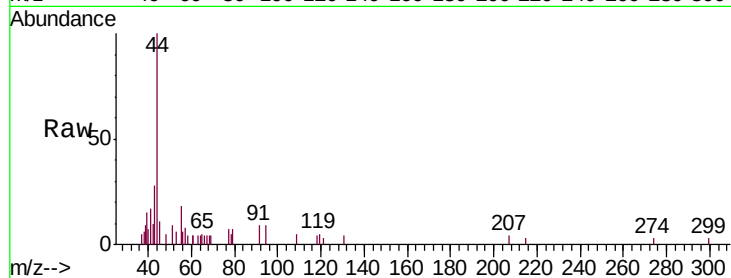
TP-3-SRE

Tgt Ion: 64 Resp: 85

Ion Ratio Lower Upper

64 100

66 87.4 27.8 41.8#



#11

Tert butyl alcohol

Concen: Below Cal

RT: 2.55 min Scan# 195

Delta R.T. -0.02 min

Lab File: VF060696.D

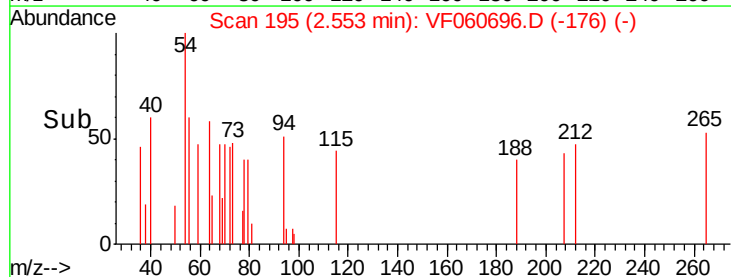
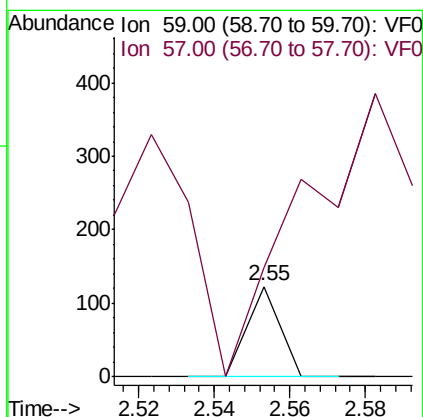
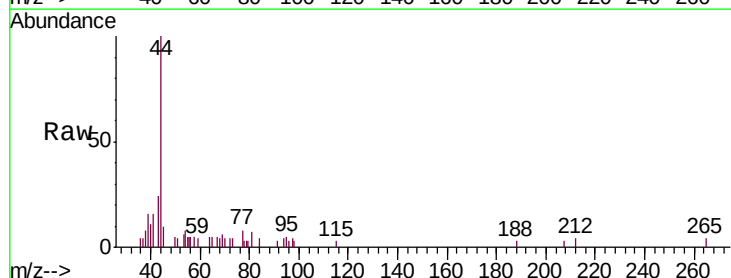
Acq: 12 Nov 2018 20:58

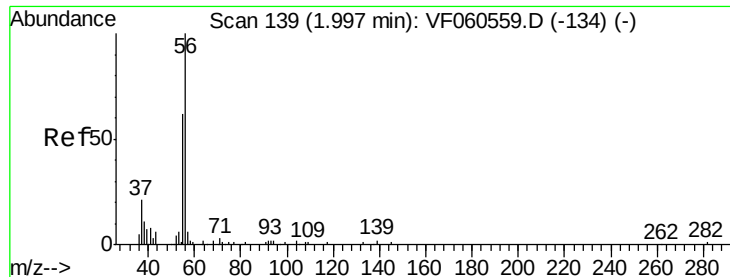
Tgt Ion: 59 Resp: 73

Ion Ratio Lower Upper

59 100

57 121.1 19.0 28.4#





#13

Acrolein

Concen: 3.632 ug/l

RT: 2.03 min Scan# 142

Delta R.T. 0.03 min

Lab File: VF060696.D

Acq: 12 Nov 2018 20:58

Instrument :

MSVOA_F

ClientSampleId :

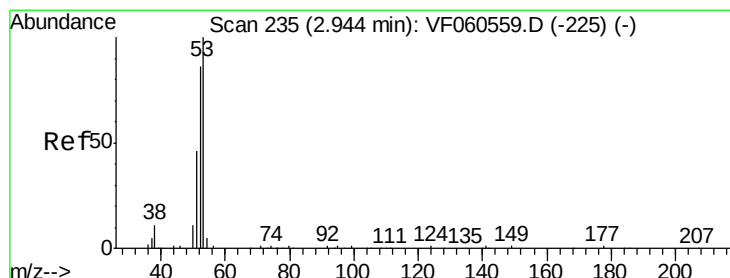
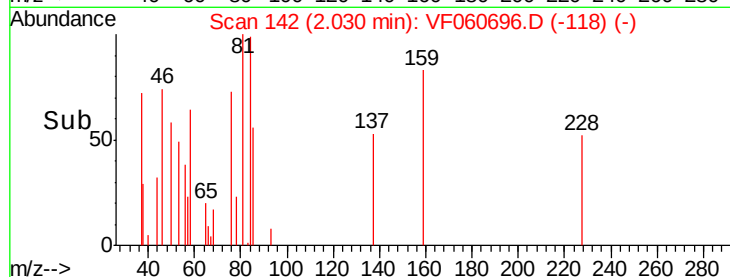
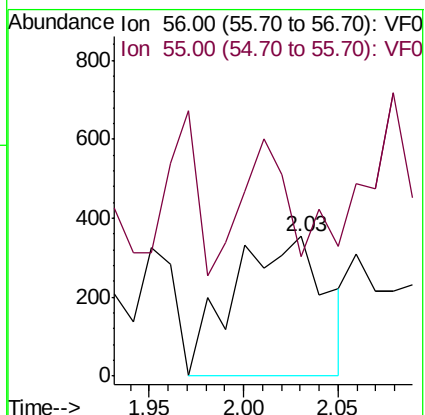
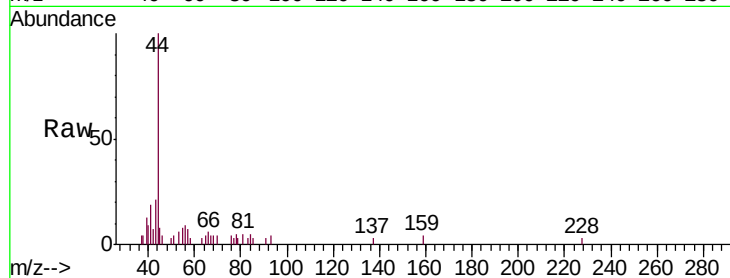
TP-3-SRE

Tgt Ion: 56 Resp: 1188

Ion Ratio Lower Upper

56 100

55 85.3 61.8 92.6



#15

Acrylonitrile

Concen: 1.852 ug/l

RT: 2.92 min Scan# 232

Delta R.T. -0.03 min

Lab File: VF060696.D

Acq: 12 Nov 2018 20:58

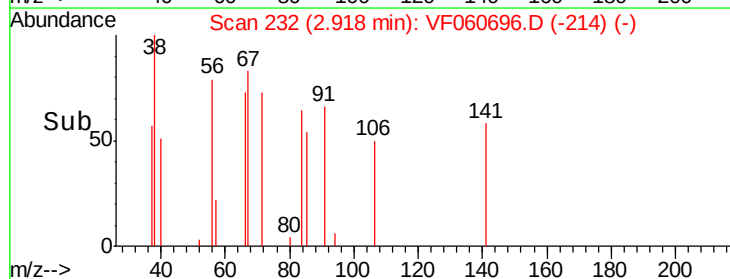
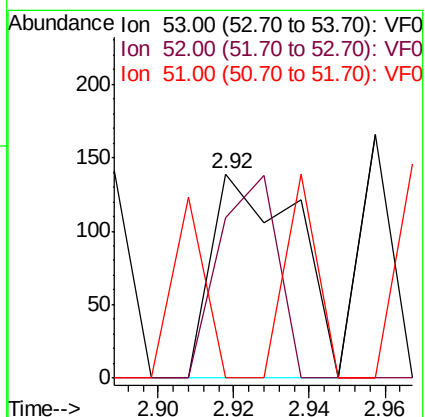
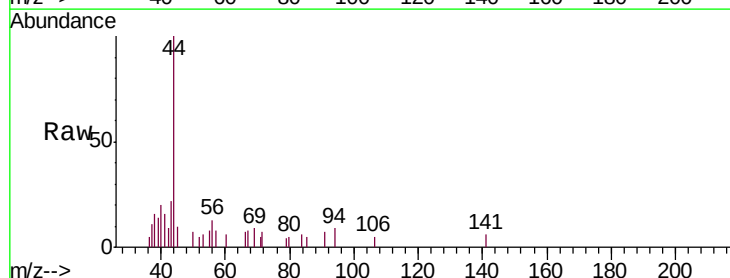
Tgt Ion: 53 Resp: 217

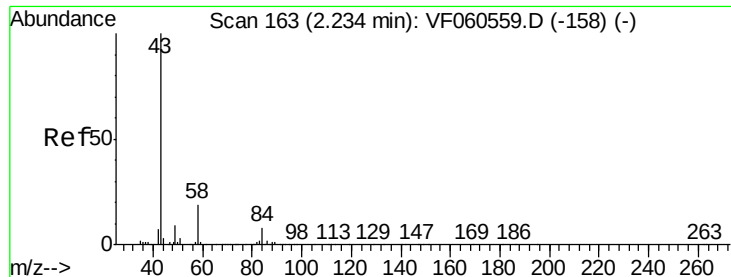
Ion Ratio Lower Upper

53 100

52 78.4 68.5 102.7

51 0.0 38.2 57.2#





#16

Acetone

Concen: 20.532 ug/l

RT: 2.23 min Scan# 162

Delta R.T. -0.01 min

Lab File: VF060696.D

Acq: 12 Nov 2018 20:58

Instrument :

MSVOA_F

ClientSampleId :

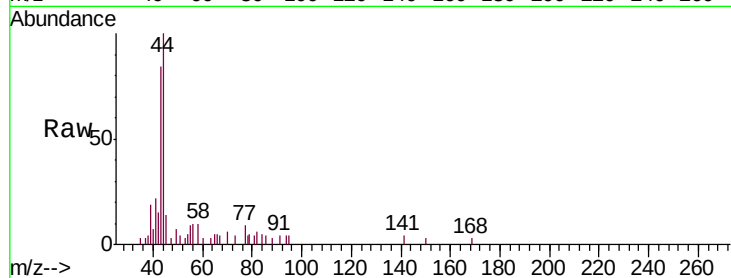
TP-3-SRE

Tgt Ion: 43 Resp: 4756

Ion Ratio Lower Upper

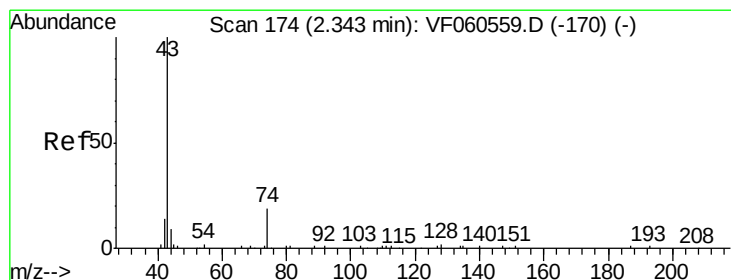
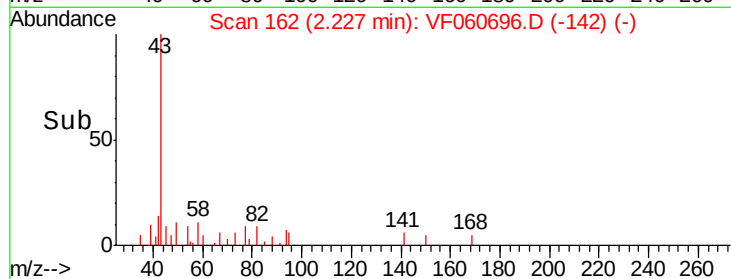
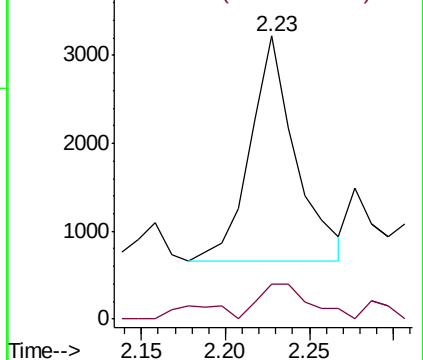
43 100

58 12.2 14.6 22.0#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#18

Methyl Acetate

Concen: 4.820 ug/l

RT: 2.38 min Scan# 177

Delta R.T. 0.03 min

Lab File: VF060696.D

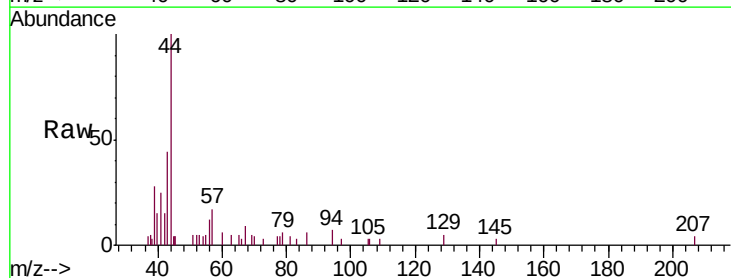
Acq: 12 Nov 2018 20:58

Tgt Ion: 43 Resp: 1577

Ion Ratio Lower Upper

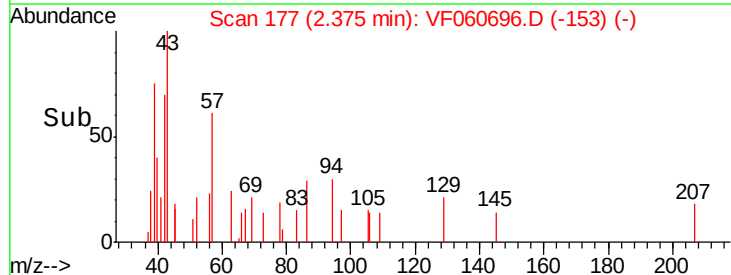
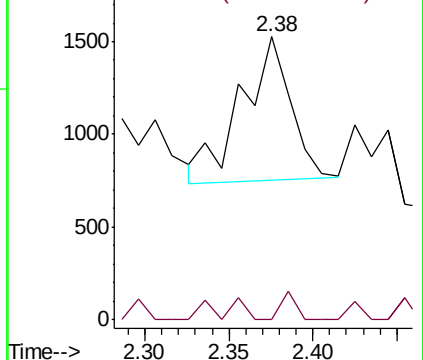
43 100

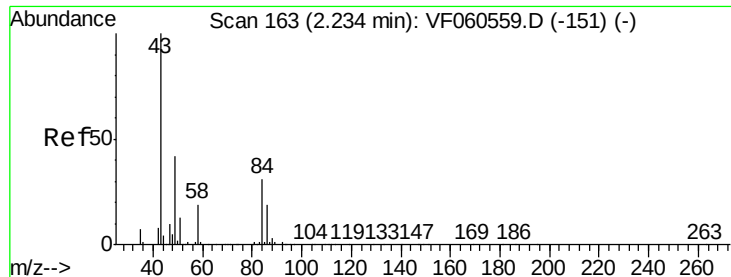
74 0.0 12.1 18.1#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 74.00 (73.70 to 74.70): VF0

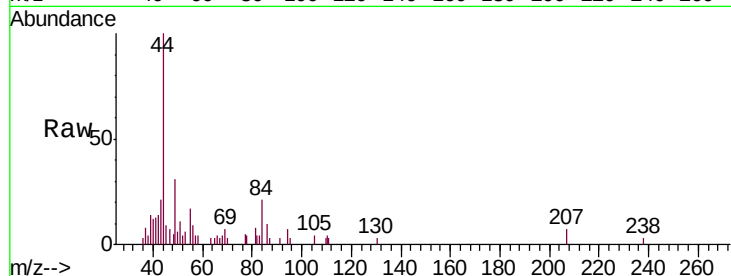




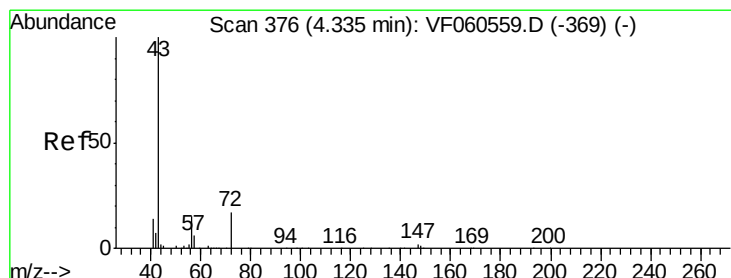
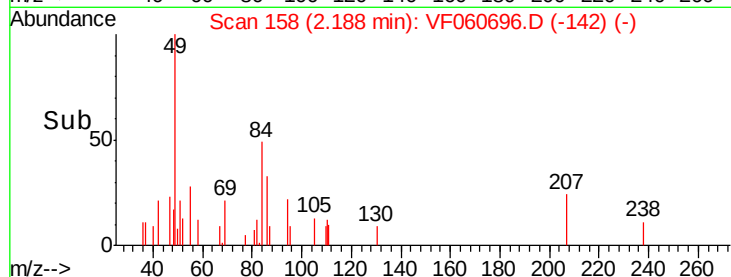
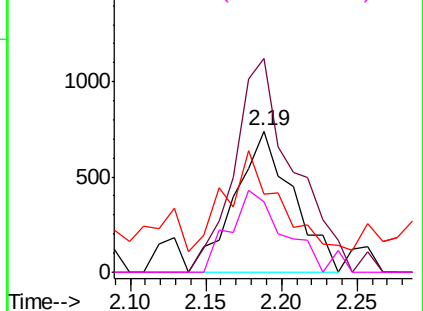
#20
Methylene Chloride
Concen: Below Cal
RT: 2.19 min Scan# 158
Delta R.T. -0.05 min
Lab File: VF060696.D
Acq: 12 Nov 2018 20:58

Instrument :
MSVOA_F
ClientSampleId :
TP-3-SRE

Tgt Ion: 84 Resp: 1970
Ion Ratio Lower Upper
84 100
49 151.3 109.9 164.9
51 55.3 35.8 53.8#
86 49.7 48.3 72.5

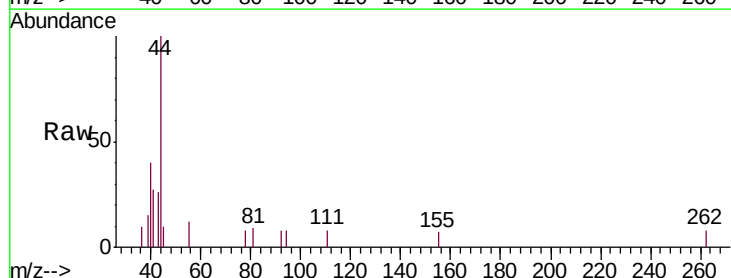


Abundance Ion 84.00 (83.70 to 84.70): VF0
Ion 49.00 (48.70 to 49.70): VF0
Ion 51.00 (50.70 to 51.70): VF0
Ion 86.00 (85.70 to 86.70): VF0

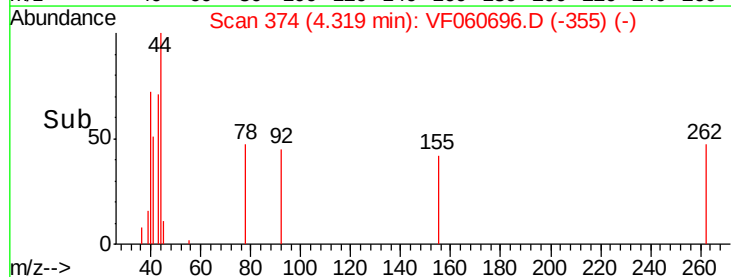
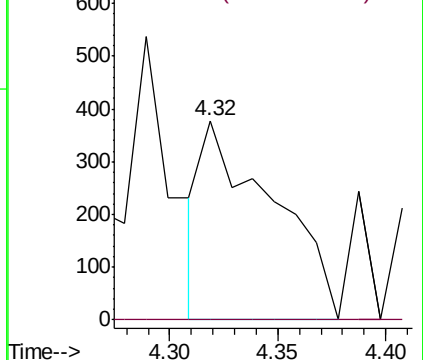


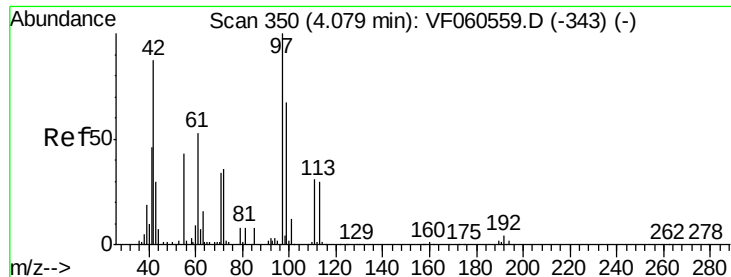
#25
2-Butanone
Concen: Below Cal
RT: 4.32 min Scan# 374
Delta R.T. -0.02 min
Lab File: VF060696.D
Acq: 12 Nov 2018 20:58

Tgt Ion: 43 Resp: 869
Ion Ratio Lower Upper
43 100
72 0.0 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: 4.07 min Scan# 349

Delta R.T. -0.01 min

Lab File: VF060696.D

Acq: 12 Nov 2018 20:58

Instrument :

MSVOA_F

ClientSampleId :

TP-3-SRE

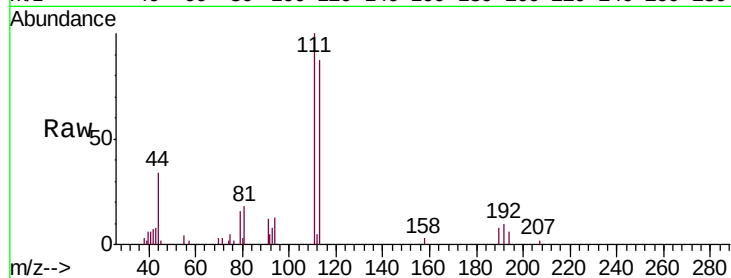
Tgt Ion: 42 Resp: 944

Ion Ratio Lower Upper

42 100

72 0.0 31.4 47.0#

71 15.3 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

4.07

300

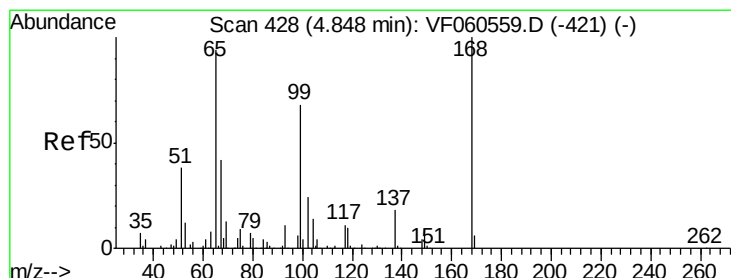
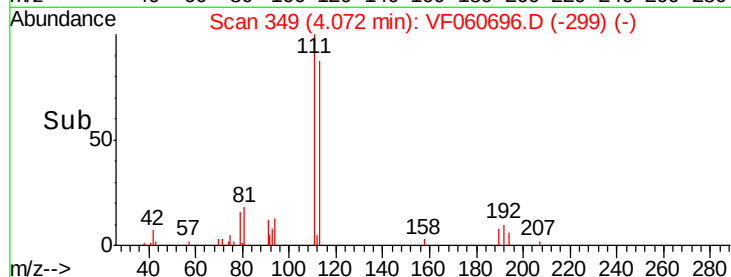
200

100

0

4.00 4.05 4.10

Time-->



#33

1,2-Dichloroethane-d4

Concen: 31.987 ug/l

RT: 4.83 min Scan# 426

Delta R.T. -0.02 min

Lab File: VF060696.D

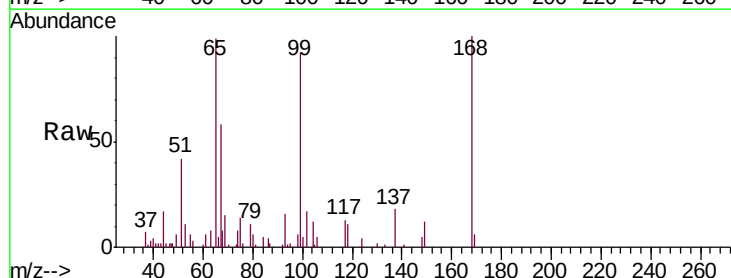
Acq: 12 Nov 2018 20:58

Tgt Ion: 65 Resp: 31444

Ion Ratio Lower Upper

65 100

67 58.4 0.0 101.8



Abundance Ion 65.00 (64.70 to 65.70): VF0

Ion 67.00 (66.70 to 67.70): VF0

10000

8000

6000

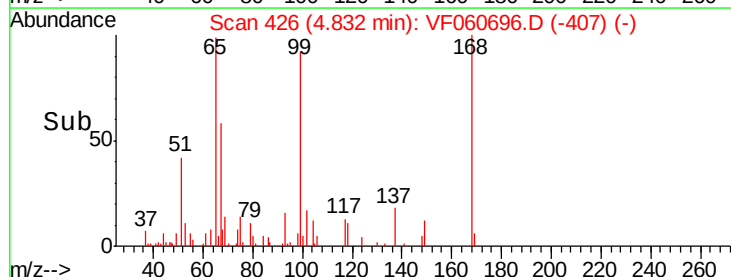
4000

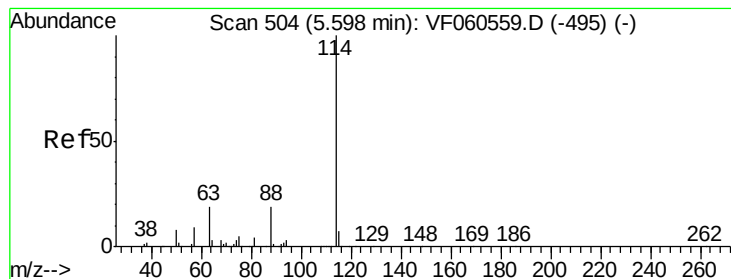
2000

0

4.70 4.80 4.90 5.00

Time-->





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.59 min Scan# 503

Delta R.T. -0.01 min

Lab File: VF060696.D

Acq: 12 Nov 2018 20:58

Instrument :

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ClientSampleId :

TP-3-SRE

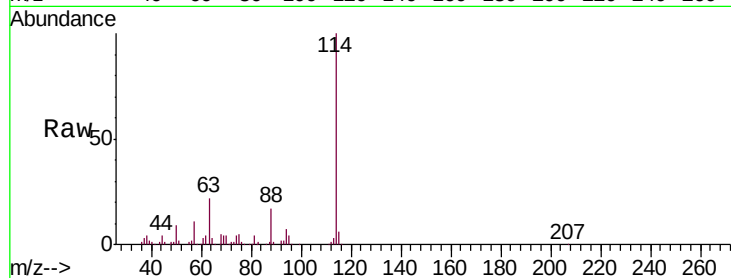
Tgt Ion:114 Resp: 132010

Ion Ratio Lower Upper

114 100

63 21.9 0.0 39.0

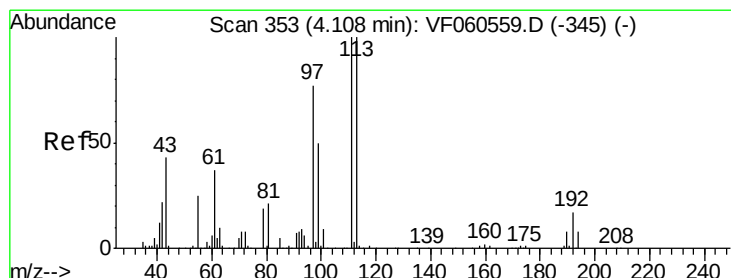
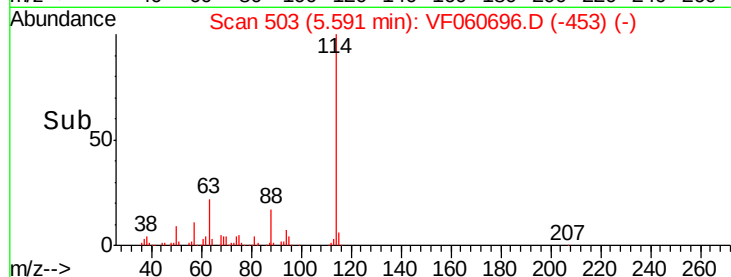
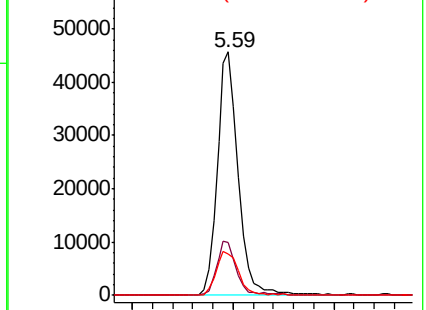
88 16.8 0.0 38.2



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: 41.302 ug/l

RT: 4.10 min Scan# 352

Delta R.T. -0.01 min

Lab File: VF060696.D

Acq: 12 Nov 2018 20:58

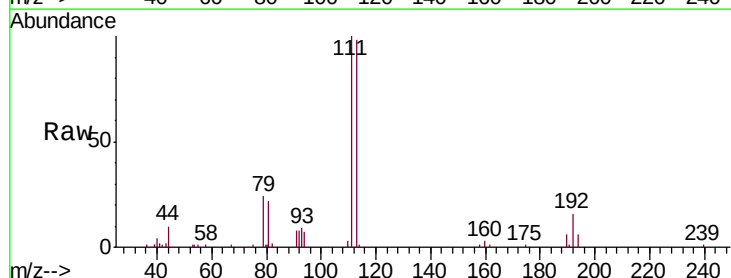
Tgt Ion:113 Resp: 42124

Ion Ratio Lower Upper

113 100

111 102.5 79.9 119.9

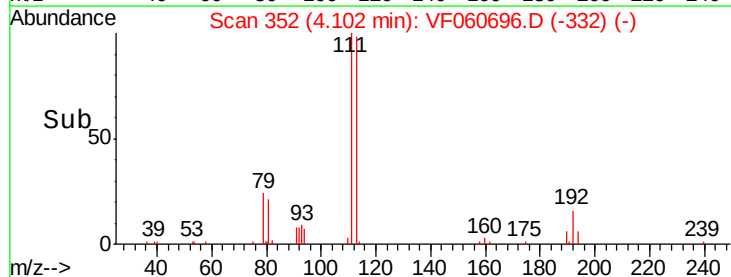
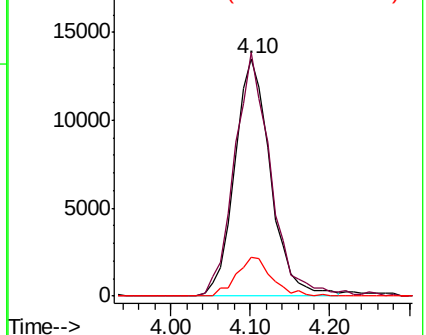
192 16.4 13.3 19.9

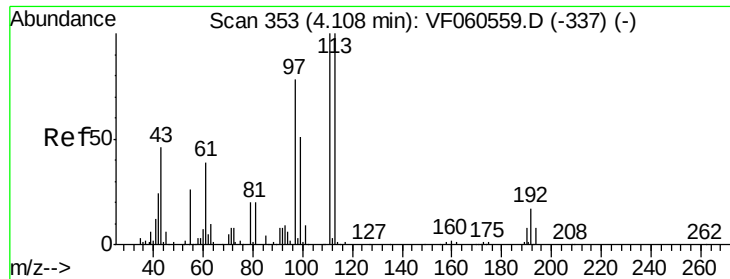


Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V

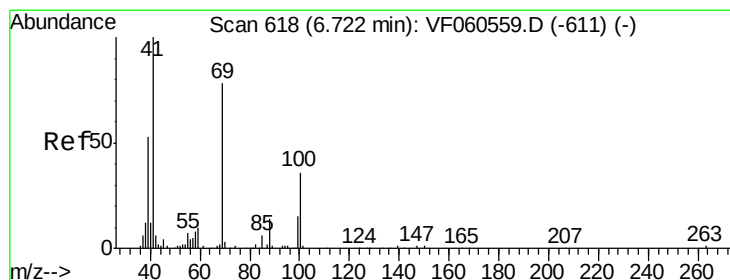
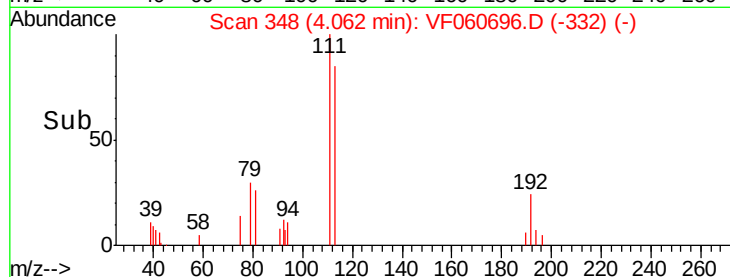
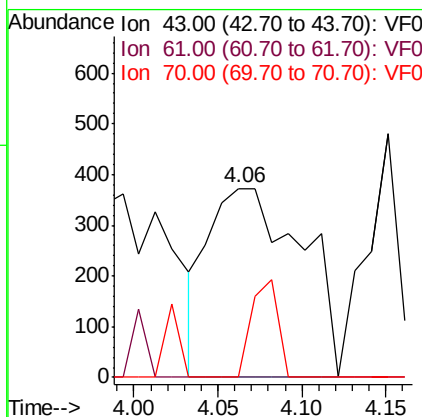
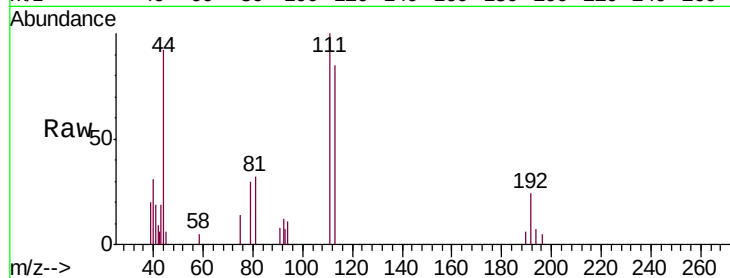




#37
 Ethyl Acetate
 Concen: 2.065 ug/l
 RT: 4.06 min Scan# 348
 Delta R.T. -0.05 min
 Lab File: VF060696.D
 Acq: 12 Nov 2018 20:58

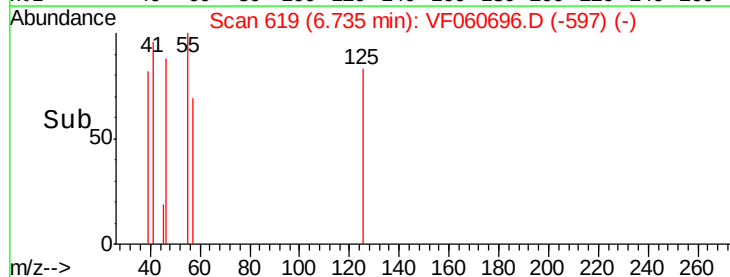
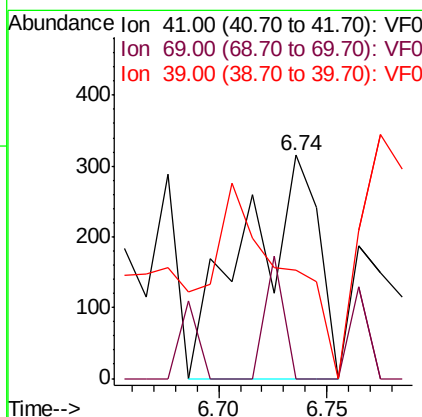
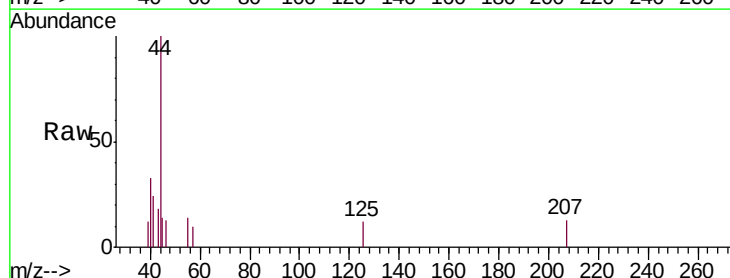
Instrument :
 MSVOA_F
 ClientSampleId :
 TP-3-SRE

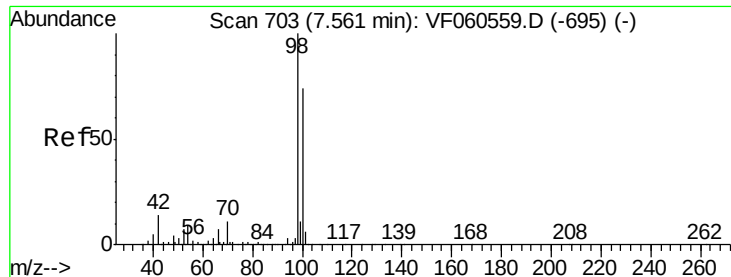
Tgt Ion: 43 Resp: 1441
 Ion Ratio Lower Upper
 43 100
 61 0.0 63.4 95.2#
 70 0.0 9.3 13.9#



#48
 Methyl methacrylate
 Concen: 1.323 ug/l
 RT: 6.74 min Scan# 619
 Delta R.T. 0.01 min
 Lab File: VF060696.D
 Acq: 12 Nov 2018 20:58

Tgt Ion: 41 Resp: 734
 Ion Ratio Lower Upper
 41 100
 69 0.0 61.1 91.7#
 39 48.3 43.0 64.6





#50

Toluene-d8

Concen: 39.689 ug/l

RT: 7.54 min Scan# 701

Delta R.T. -0.02 min

Lab File: VF060696.D

Acq: 12 Nov 2018 20:58

Instrument :

MSVOA_F

ClientSampled :

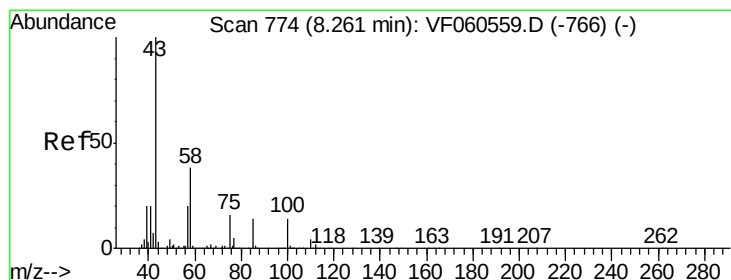
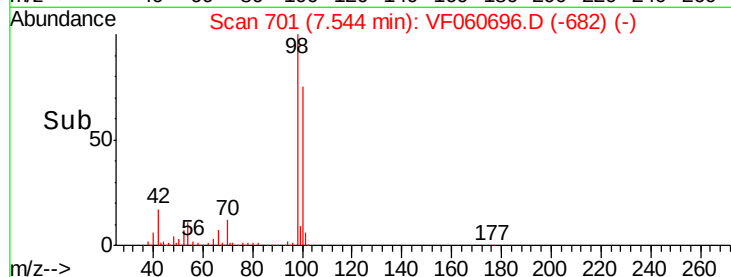
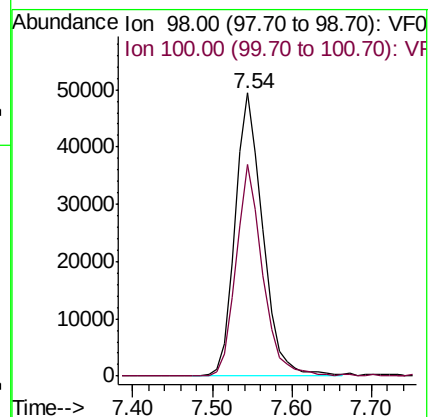
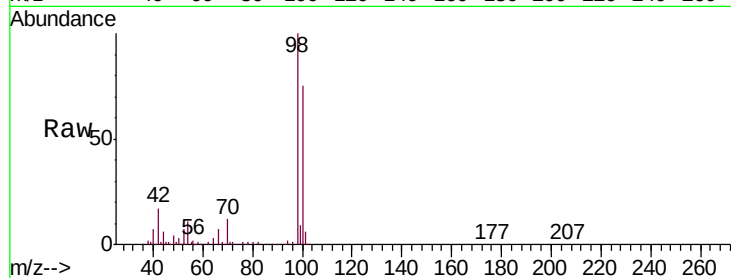
TP-3-SRE

Tgt Ion: 98 Resp: 119910

Ion Ratio Lower Upper

98 100

100 74.6 59.4 89.2



#51

4-Methyl-2-Pentanone

Concen: 2.116 ug/l

RT: 8.25 min Scan# 773

Delta R.T. -0.01 min

Lab File: VF060696.D

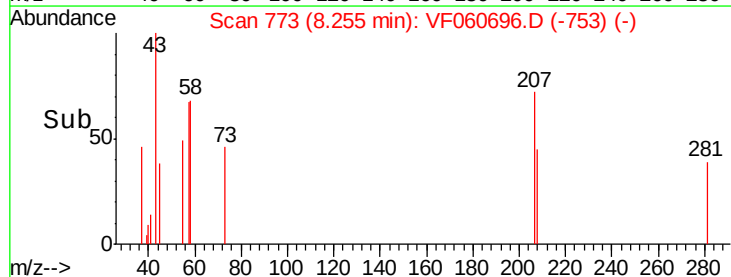
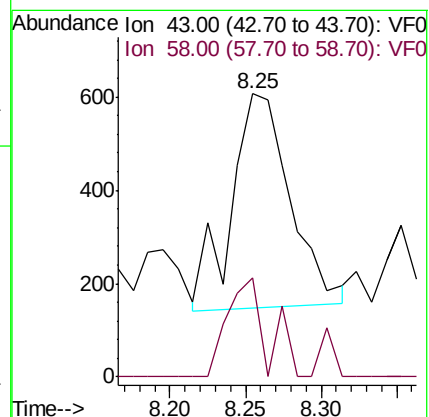
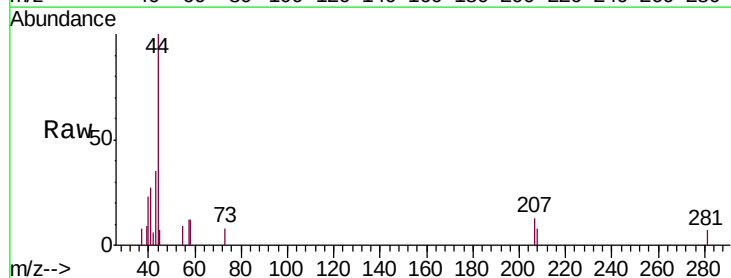
Acq: 12 Nov 2018 20:58

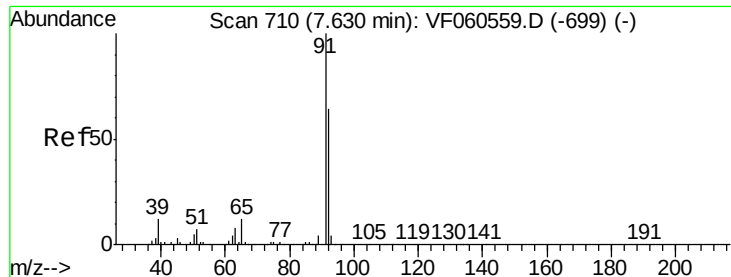
Tgt Ion: 43 Resp: 1256

Ion Ratio Lower Upper

43 100

58 35.1 30.1 45.1





#58

2-Chloroethyl Vinyl ether

Concen: Below Cal

RT: 7.57 min Scan# 704

Delta R.T. -0.06 min

Lab File: VF060696.D

Acq: 12 Nov 2018 20:58

Instrument :

MSVOA_F

ClientSampleId :

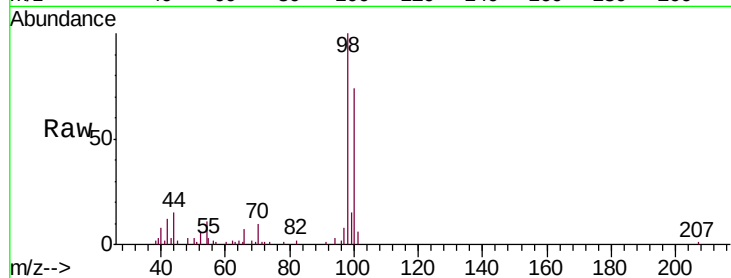
TP-3-SRE

Tgt Ion: 63 Resp: 61

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

7.57

100

80

60

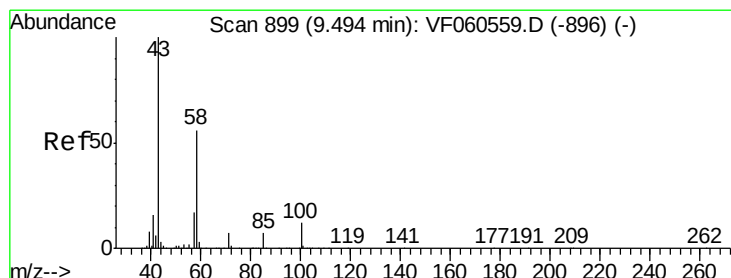
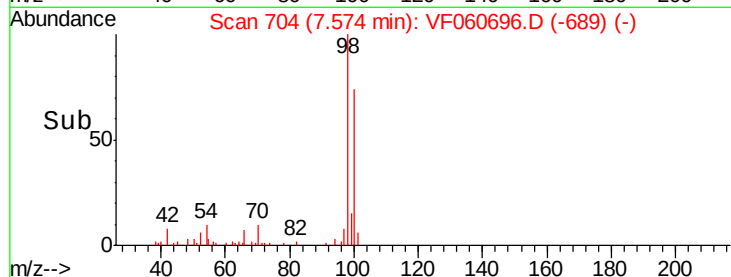
40

20

0

7.56 7.58 7.60

Time-->



#59

2-Hexanone

Concen: Below Cal

RT: 9.49 min Scan# 898

Delta R.T. -0.01 min

Lab File: VF060696.D

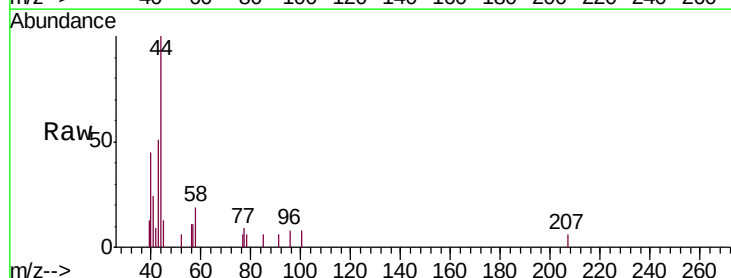
Acq: 12 Nov 2018 20:58

Tgt Ion: 43 Resp: 2298

Ion Ratio Lower Upper

43 100

58 38.1 26.1 78.3



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

9.49

1000

800

600

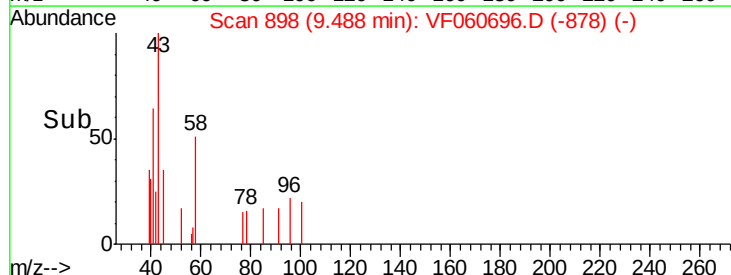
400

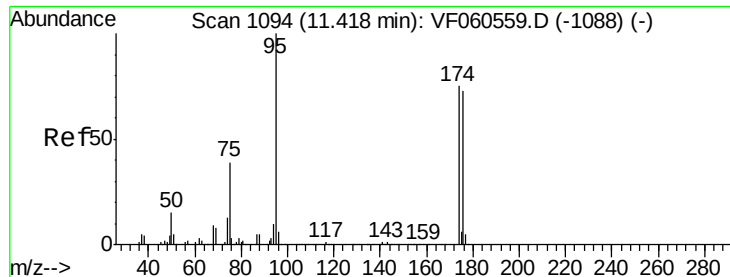
200

0

9.40 9.50

Time-->





#62

4-Bromofluorobenzene

Concen: 27.086 ug/l

RT: 11.40 min Scan# 1092

Delta R.T. -0.02 min

Lab File: VF060696.D

Acq: 12 Nov 2018 20:58

Instrument :

MSVOA_F

ClientSampleId :

TP-3-SRE

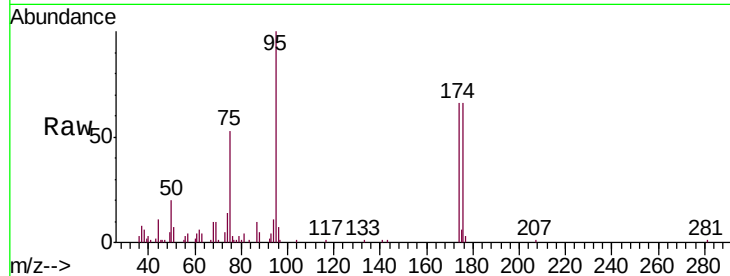
Tgt Ion: 95 Resp: 35796

Ion Ratio Lower Upper

95 100

174 65.7 0.0 149.0

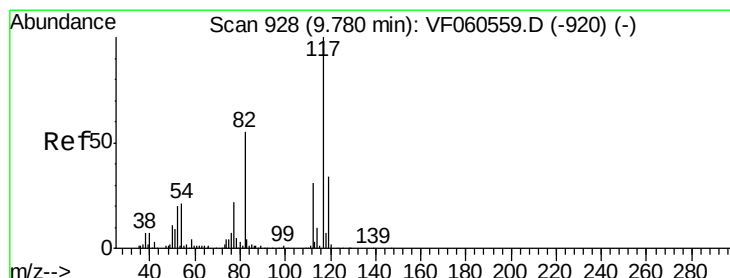
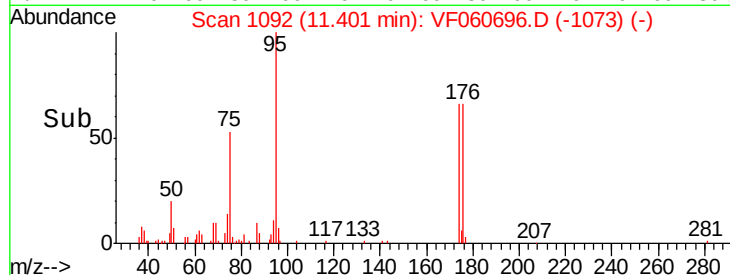
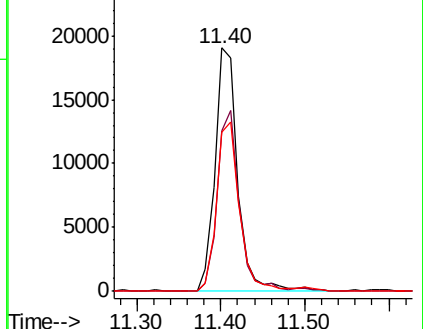
176 65.6 0.0 145.6



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: 9.76 min Scan# 926

Delta R.T. -0.02 min

Lab File: VF060696.D

Acq: 12 Nov 2018 20:58

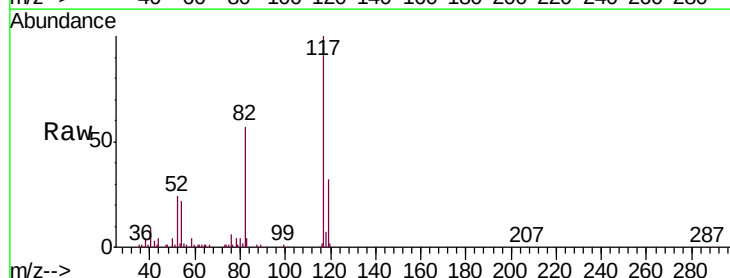
Tgt Ion: 117 Resp: 99588

Ion Ratio Lower Upper

117 100

82 56.9 43.9 65.9

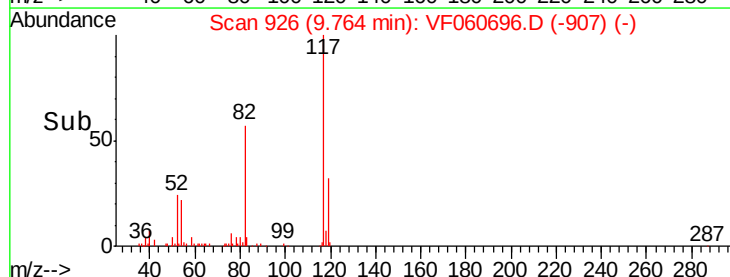
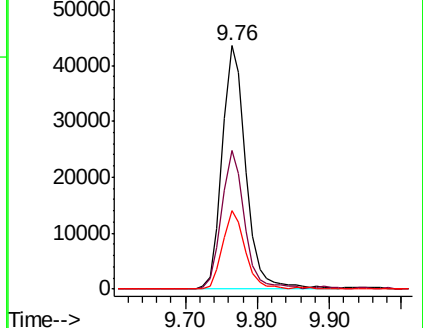
119 32.3 27.4 41.0

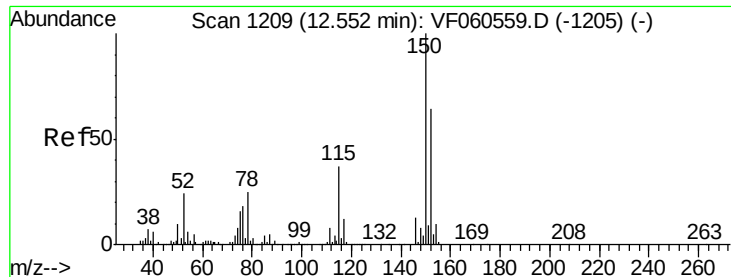


Abundance Ion 117.00 (116.70 to 117.70): V

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: 12.55 min Scan# 1208

Delta R.T. -0.01 min

Lab File: VF060696.D

Acq: 12 Nov 2018 20:58

Instrument :

MSVOA_F

ClientSampleId :

TP-3-SRE

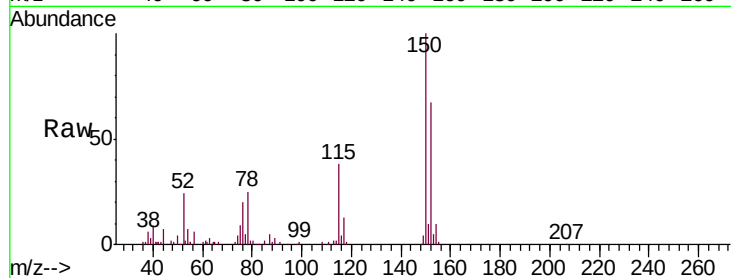
Tgt Ion: 152 Resp: 29688

Ion Ratio Lower Upper

152 100

115 56.8 29.6 88.8

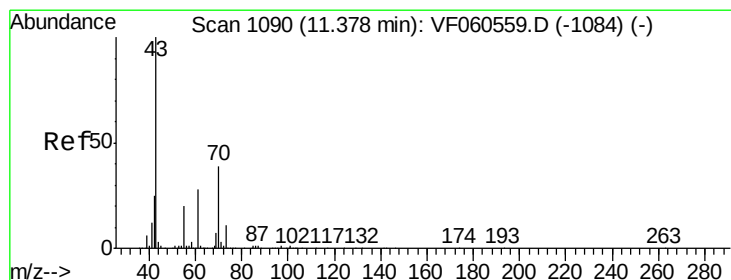
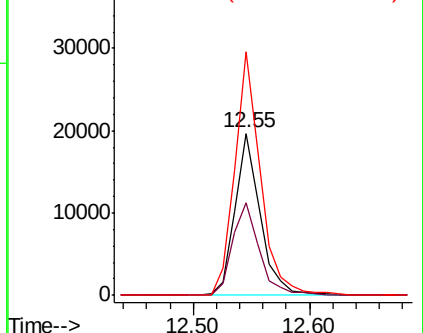
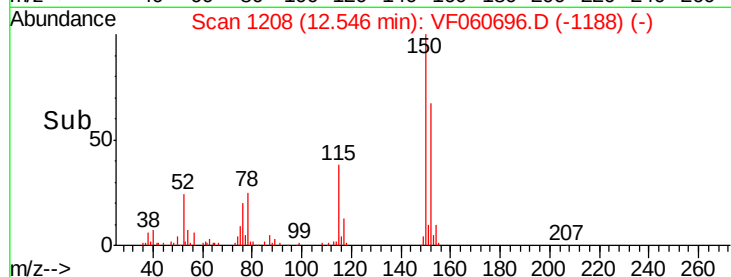
150 150.1 0.0 315.6



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-amil acetate

Concen: Below Cal

RT: 11.35 min Scan# 1087

Delta R.T. -0.03 min

Lab File: VF060696.D

Acq: 12 Nov 2018 20:58

Tgt Ion: 43 Resp: 531

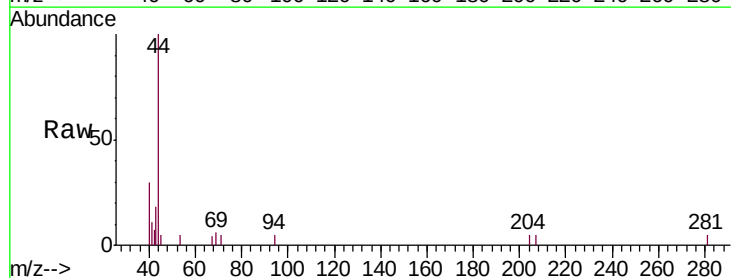
Ion Ratio Lower Upper

43 100

70 0.0 30.9 46.3#

55 0.0 16.6 24.8#

61 0.0 22.0 33.0#

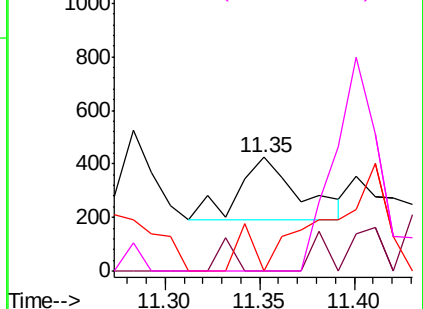
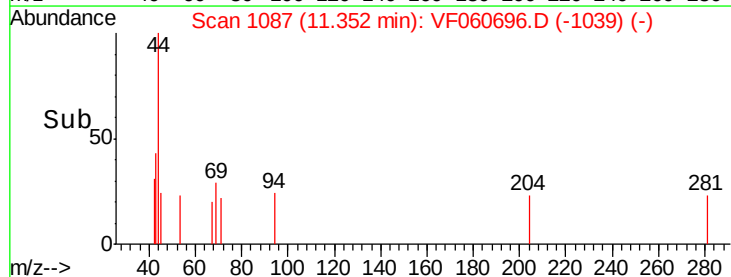


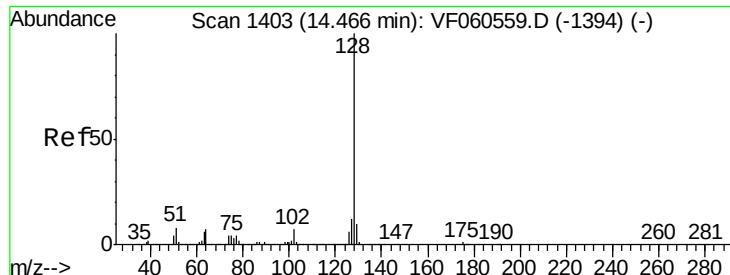
Abundance Ion 43.00 (42.70 to 43.70): VF0

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





#95
Naphthalene
Concen: 1.608 ug/l
RT: 14.45 min Scan# 1401
Delta R.T. -0.02 min
Lab File: VF060696.D
Acq: 12 Nov 2018 20:58

Instrument :
MSVOA_F
ClientSampleId :
TP-3-SRE

Tgt Ion	Ratio	Lower	Upper
128	100		
127	24.3	9.4	14.0#
129	12.0	8.4	12.6

