

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF070318\
 Data File : VF059423.D
 Acq On : 3 Jul 2018 20:20
 Operator : VA/AP
 Sample : J3845-07
 Misc : 5.10µ/5mL/MSVOA-F/SOIL
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 GF-G-3

Quant Time: Jul 04 00:14:21 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	858	50.00	ug/l	-0.02
34) 1,4-Difluorobenzene	5.65	114	63	50.00	ug/l	-0.10
63) Chlorobenzene-d5	9.87	117	261	50.00	ug/l	-0.03
72) 1,4-Dichlorobenzene-d4	0.00	152	0	0.00	ug/l	-12.63

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	0.00	65	0	0.00	ug/l	
Spiked Amount	50.000					
			Recovery	=	0.00%	
35) Dibromofluoromethane	4.25	113	323	701.68	ug/l	-0.02
Spiked Amount	50.000					
			Recovery	=	1403.36%	
50) Toluene-d8	7.68	98	622	545.75	ug/l	-0.02
Spiked Amount	50.000					
			Recovery	=	1091.50%	
62) 4-Bromofluorobenzene	0.00	95	0	0.00	ug/l	
Spiked Amount	50.000					
			Recovery	=	0.00%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.06	85	78	9.950	ug/l #	40
3) Chloromethane	1.07	50	103	19.558	ug/l #	41
5) Bromomethane	1.19	94	101	33.481	ug/l #	4
6) Chloroethane	1.44	64	64	24.512	ug/l #	45
8) Diethyl Ether	1.75	74	69	26.252	ug/l #	1
11) Tert butyl alcohol	2.66	59	59	79.948	ug/l #	66
12) 1,1-Dichloroethene	1.79	96	66	13.047	ug/l #	1
13) Acrolein	2.05	56	67	185.405	ug/l #	10
14) Allyl chloride	2.15	41	98	10.321	ug/l #	1
15) Acrylonitrile	3.07	53	62	47.708	ug/l #	9
16) Acetone	2.34	43	63	13.091	ug/l #	65
17) Carbon Disulfide	1.77	76	63	5.295	ug/l #	71
18) Methyl Acetate	2.47	43	66	12.314	ug/l #	61
19) Methyl tert-butyl Ether	2.52	73	182	9.646	ug/l #	63
21) trans-1,2-Dichloroethene	2.25	96	89	16.494	ug/l #	1
22) Diisopropyl ether	2.89	45	86	4.090	ug/l #	37
23) Vinyl Acetate	3.33	43	99	7.393	ug/l #	79
25) 2-Butanone	4.50	43	213	61.446	ug/l #	59
26) 2,2-Dichloropropane	3.75	77	143	15.903	ug/l #	62
27) cis-1,2-Dichloroethene	3.73	96	64	7.812	ug/l	1
28) Bromochloromethane	3.95	49	62	8.894	ug/l #	6
29) Tetrahydrofuran	4.19	42	80	48.987	ug/l #	36
30) Chloroform	3.92	83	60	3.179	ug/l #	18
31) Cyclohexane	3.85	56	122	14.285	ug/l #	13
32) 1,1,1-Trichloroethane	4.27	97	132	9.557	ug/l #	21
36) 1,1-Dichloropropene	4.25	75	157	285.270	ug/l #	23
37) Ethyl Acetate	4.20	43	64	185.809	ug/l #	26
39) Methylcyclohexane	5.58	83	69	141.481	ug/l #	15
40) Benzene	4.68	78	62	50.809	ug/l #	51
41) Methacrylonitrile	4.81	41	144	767.044	ug/l #	26
42) 1,2-Dichloroethane	4.88	62	101	141.647	ug/l	83
43) Isopropyl Acetate	6.96	43	161	351.207	ug/l #	52
45) 1,2-Dichloropropane	6.30	63	60	172.098	ug/l #	1
47) Bromodichloromethane	6.47	83	67	91.468	ug/l #	26

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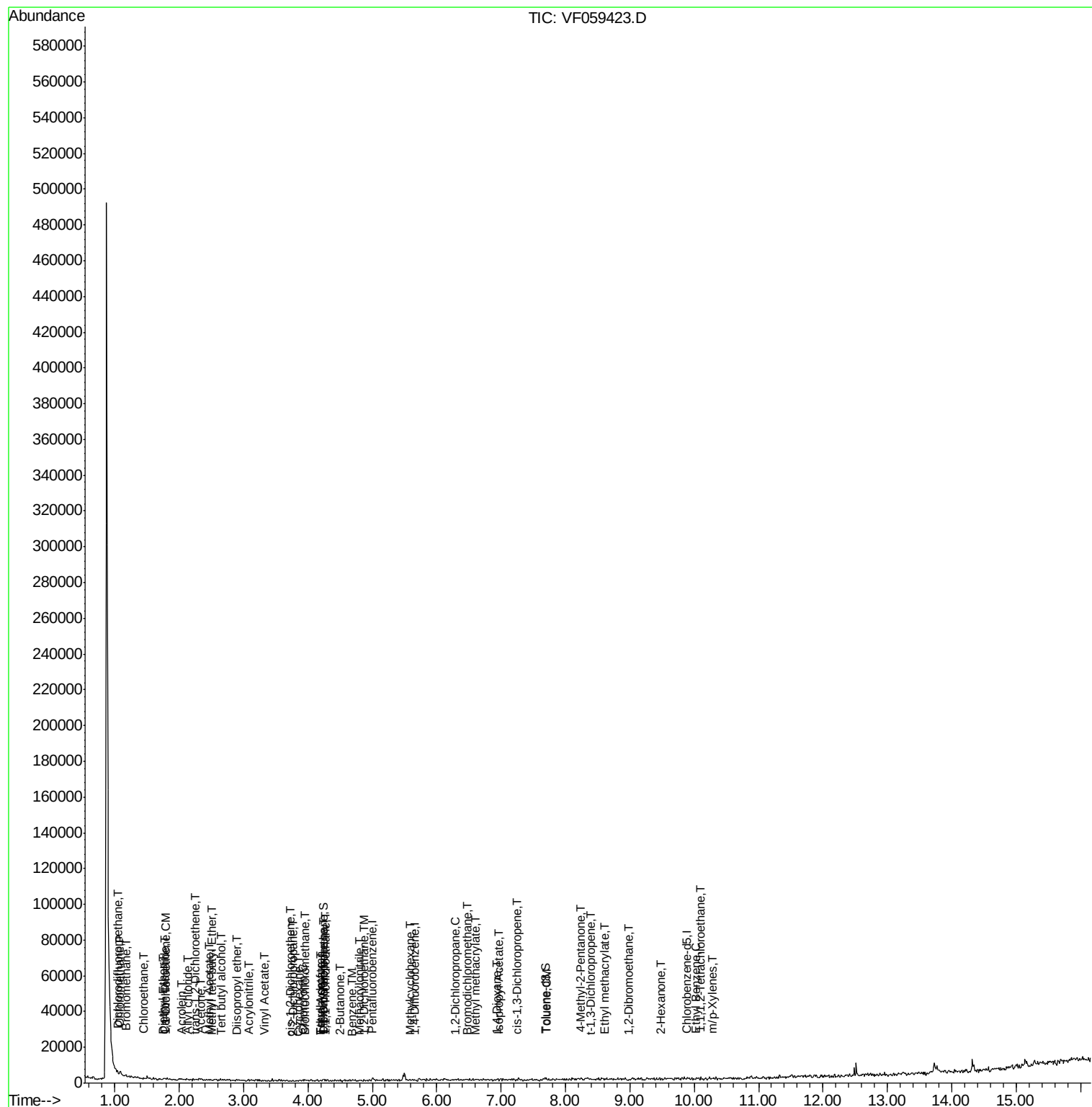
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
48) Methyl methacrylate	6.61	41	111	361.279	ug/l #	11
49) 1,4-Dioxane	6.93	88	81	51562.078	ug/l #	20
51) 4-Methyl-2-Pentanone	8.25	43	75	220.835	ug/l #	39
52) Toluene	7.71	92	77	84.329	ug/l #	1
53) t-1,3-Dichloropropene	8.40	75	63	94.357	ug/l #	43
54) cis-1,3-Dichloropropene	7.23	75	173	238.540	ug/l #	23
56) Ethyl methacrylate	8.62	69	70	159.391	ug/l #	17
59) 2-Hexanone	9.49	43	99	398.023	ug/l #	30
61) 1,2-Dibromoethane	8.98	107	70	162.807	ug/l #	1
66) 1,1,1,2-Tetrachloroethane	10.10	131	80	38.246	ug/l #	10
67) Ethyl Benzene	10.02	91	64	7.801	ug/l #	44
68) m/p-Xylenes	10.27	106	104	35.614	ug/l #	1

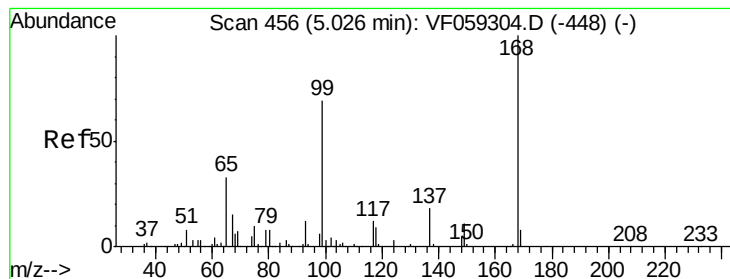
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VF059423.D

Acq: 3 Jul 2018 20:20

Instrument :

MSVOA_F

ClientSampled :

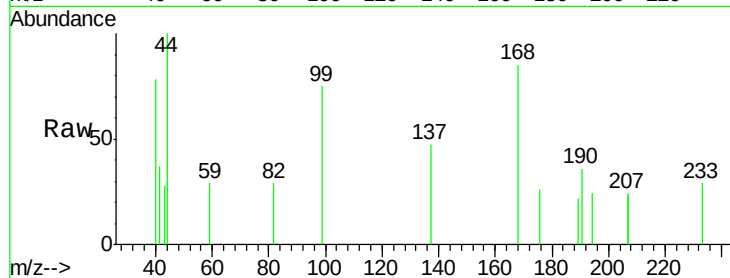
GF-G-3

Tot Ion:168 Resp: 858

Ion Ratio Lower Upper

168 100

99 87.5 54.9 82.3#



Abundance Ion 168.00 (167.70 to 168.70): V

Ion 99.00 (98.70 to 99.70): VF0

400

300

200

100

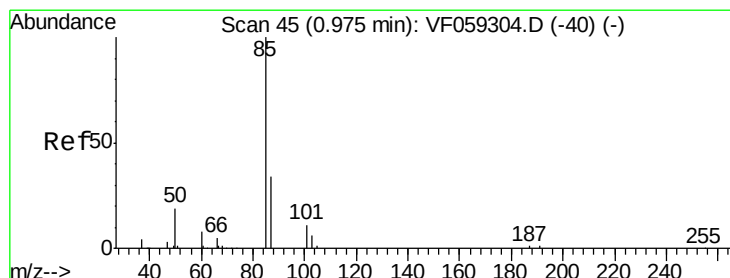
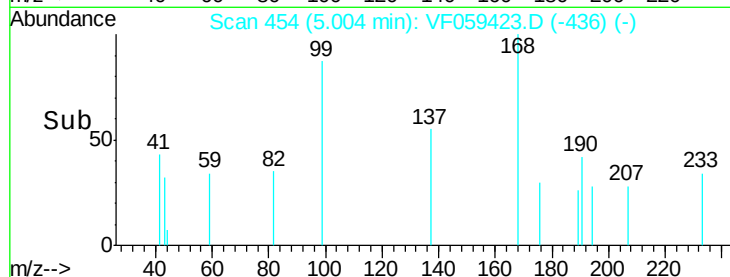
0

4.95

5.00

5.05

Time-->



#2

Dichlorodifluoromethane

Concen: 9.950 ug/l

RT: 1.06 min Scan# 54

Delta R.T. 0.09 min

Lab File: VF059423.D

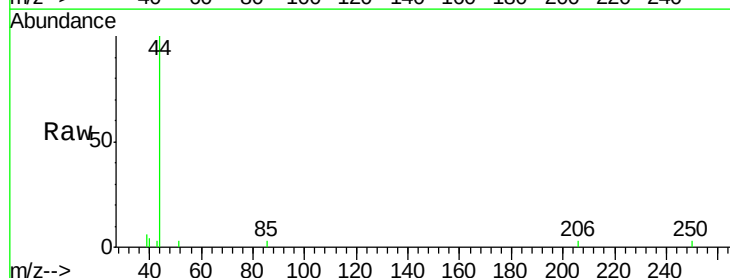
Acq: 3 Jul 2018 20:20

Tgt Ion: 85 Resp: 78

Ion Ratio Lower Upper

85 100

87 0.0 17.1 51.3#



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

150

100

50

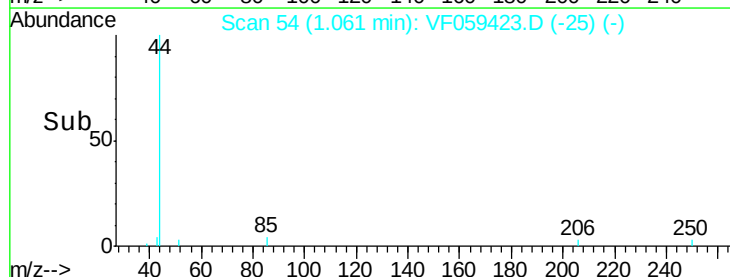
0

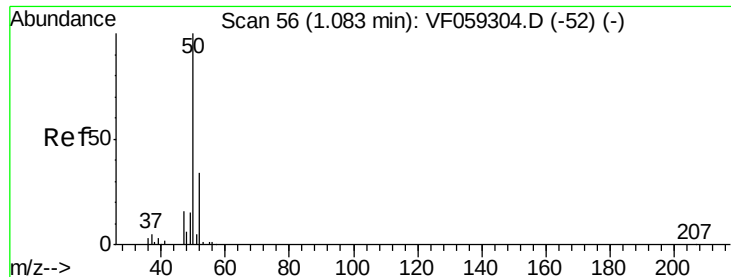
1.04

1.06

1.08

Time-->





#3

Chloromethane

Concen: 19.558 ug/l

RT: 1.07 min Scan# 55

Delta R.T. -0.01 min

Lab File: VF059423.D

Acq: 3 Jul 2018 20:20

Instrument :

MSVOA_F

ClientSampleId :

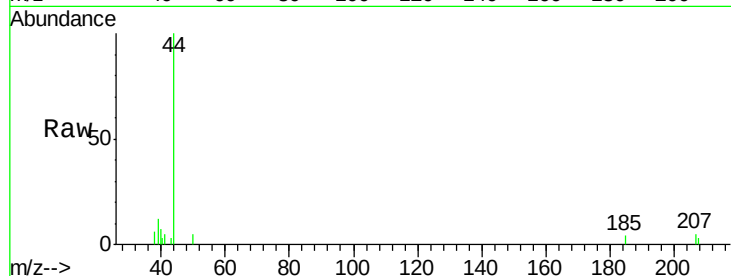
GF-G-3

Tot Ion: 50 Resp: 103

Ion Ratio Lower Upper

50 100

52 0.0 26.7 40.1#



Abundance Ion 50.00 (49.70 to 50.70): VF0

Ion 52.00 (51.70 to 52.70): VF0

1.07

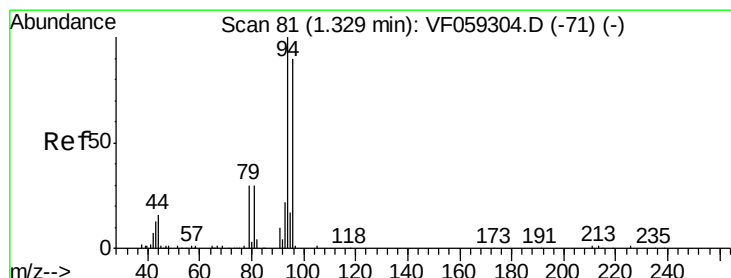
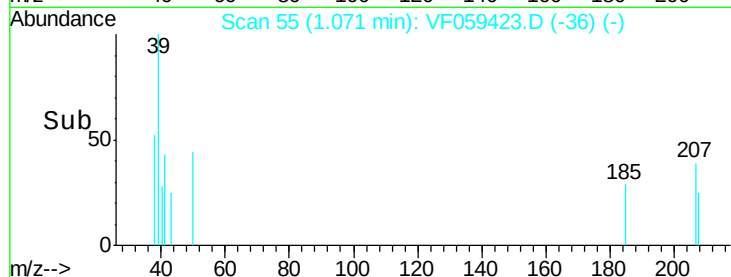
150

100

50

0

Time--> 1.04 1.06 1.08



#5

Bromomethane

Concen: 33.481 ug/l

RT: 1.19 min Scan# 67

Delta R.T. -0.14 min

Lab File: VF059423.D

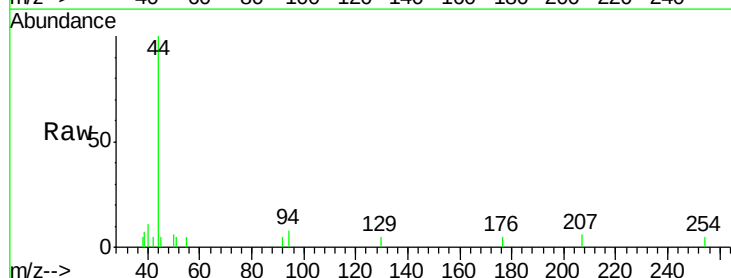
Acq: 3 Jul 2018 20:20

Tgt Ion: 94 Resp: 101

Ion Ratio Lower Upper

94 100

96 0.0 73.4 110.0#



Abundance Ion 94.00 (93.70 to 94.70): VF0

Ion 96.00 (95.70 to 96.70): VF0

1.19

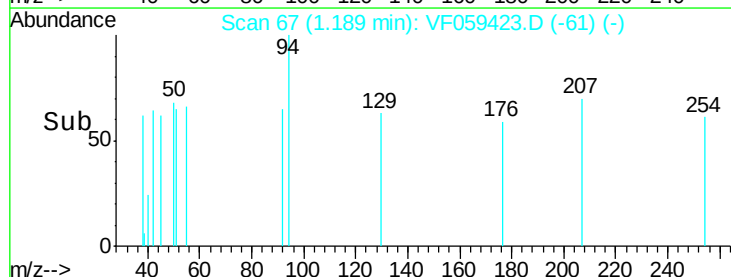
150

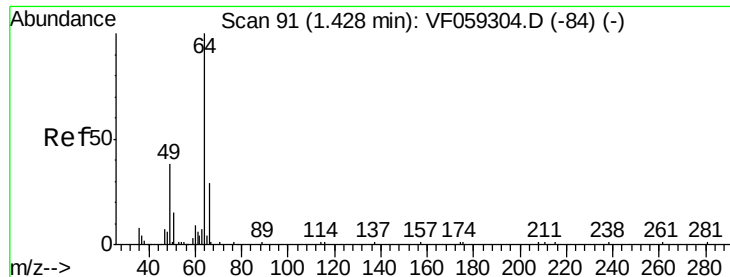
100

50

0

Time--> 1.16 1.18 1.20 1.22





#6

Chloroethane

Concen: 24.512 ug/l

RT: 1.44 min Scan# 92

Delta R.T. 0.01 min

Lab File: VF059423.D

Acq: 3 Jul 2018 20:20

Instrument :

MSVOA_F

ClientSampleId :

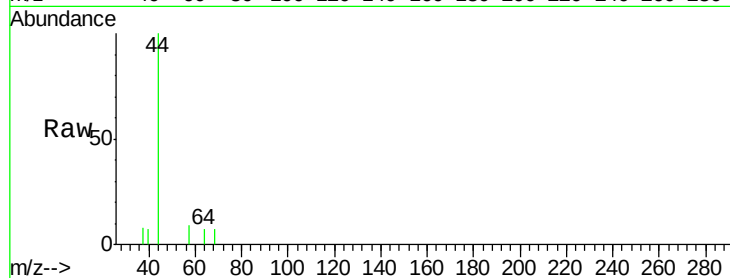
GF-G-3

Tot Ion: 64 Resp: 64

Ion Ratio Lower Upper

64 100

66 0.0 23.9 35.9#



Abundance Ion 64.00 (63.70 to 64.70): VF0

Ion 66.00 (65.70 to 66.70): VF0

1.44

120

100

80

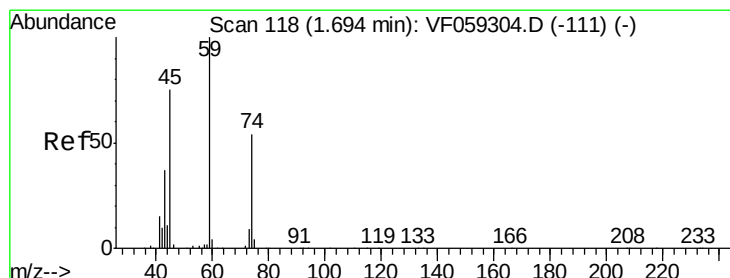
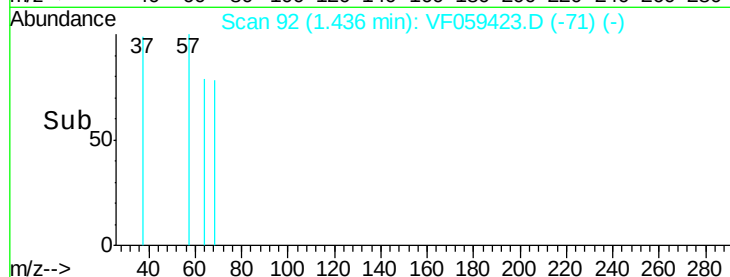
60

40

20

0

Time--> 1.40 1.42 1.44 1.46



#8

Diethyl Ether

Concen: 26.252 ug/l

RT: 1.75 min Scan# 124

Delta R.T. 0.06 min

Lab File: VF059423.D

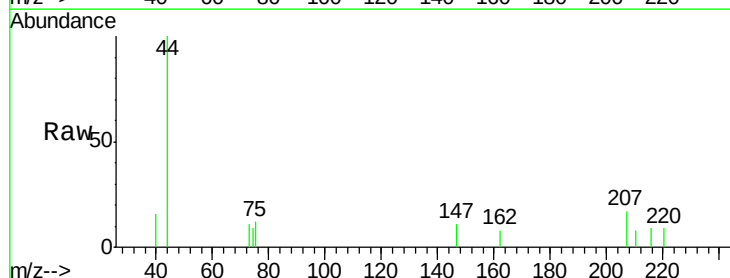
Acq: 3 Jul 2018 20:20

Tgt Ion: 74 Resp: 69

Ion Ratio Lower Upper

74 100

45 0.0 70.0 210.0#



Abundance Ion 74.00 (73.70 to 74.70): VF0

Ion 45.00 (44.70 to 45.70): VF0

1.75

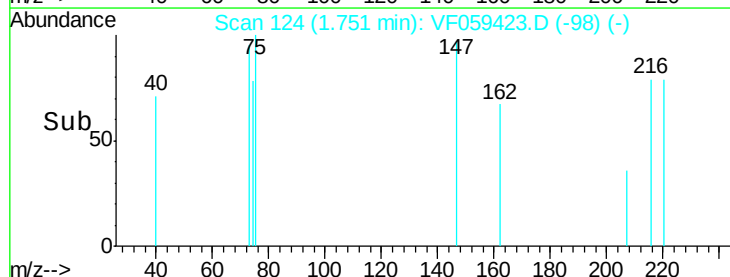
150

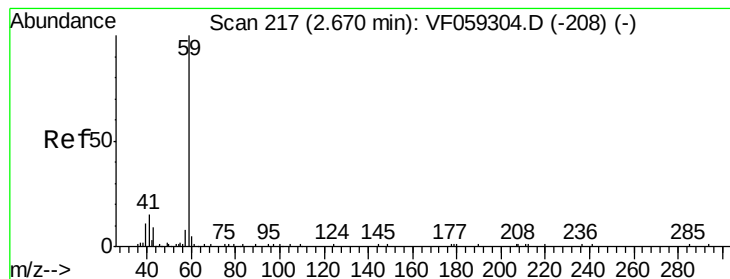
100

50

0

Time--> 1.72 1.74 1.76



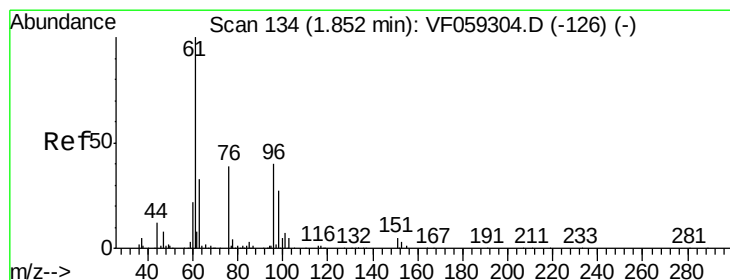
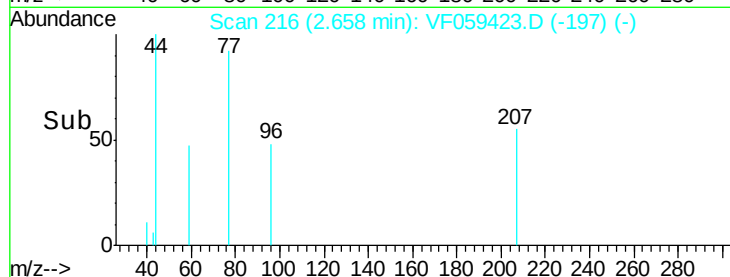
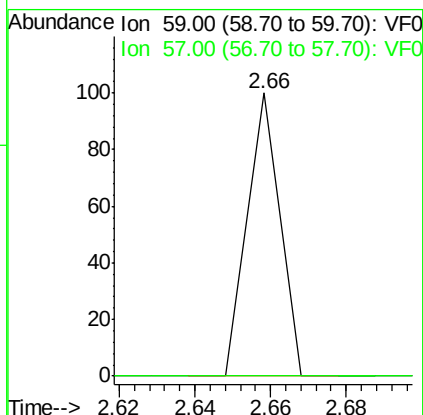
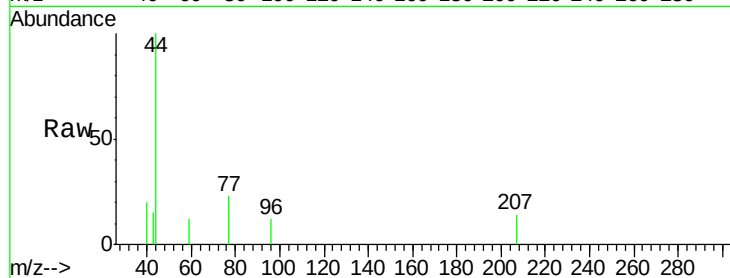


#11

Tert butyl alcohol
Concen: 79.948 ug/l
RT: 2.66 min Scan# 216
Delta R.T. -0.01 min
Lab File: VF059423.D
Acq: 3 Jul 2018 20:20

Instrument :
MSVOA_F
ClientSampled :
GF-G-3

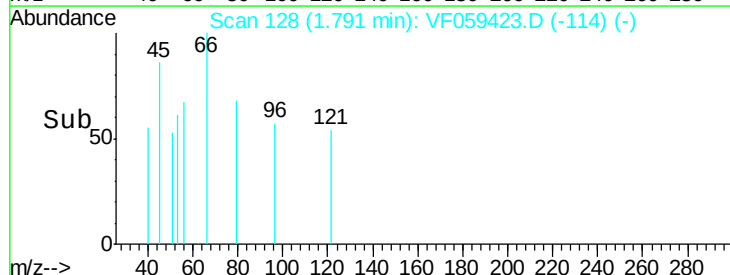
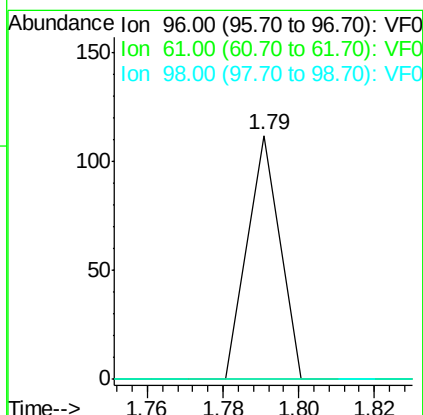
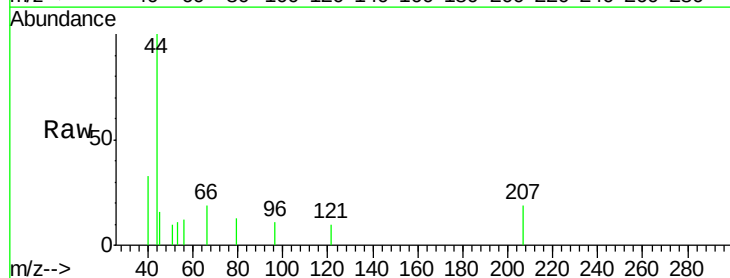
Tot Ion: 59 Resp: 59
Ion Ratio Lower Upper
59 100
57 0.0 11.0 16.4#

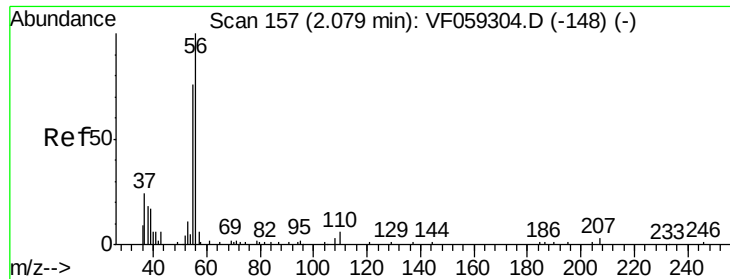


#12

1,1-Dichloroethene
Concen: 13.047 ug/l
RT: 1.79 min Scan# 128
Delta R.T. -0.06 min
Lab File: VF059423.D
Acq: 3 Jul 2018 20:20

Tgt Ion: 96 Resp: 66
Ion Ratio Lower Upper
96 100
61 0.0 201.1 301.7#
98 0.0 53.9 80.9#

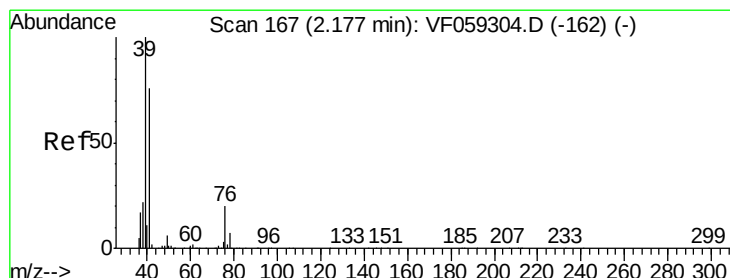
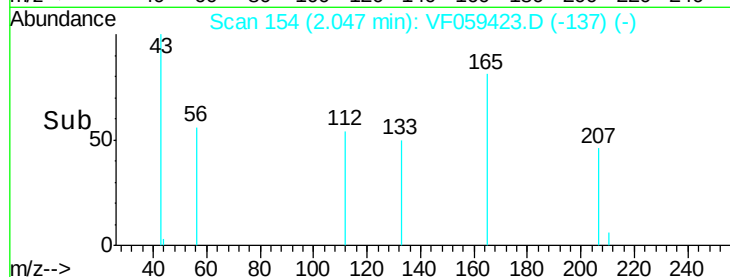
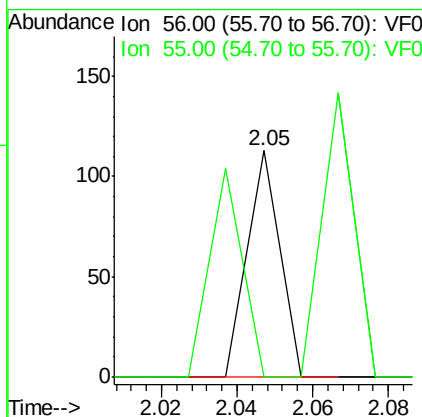
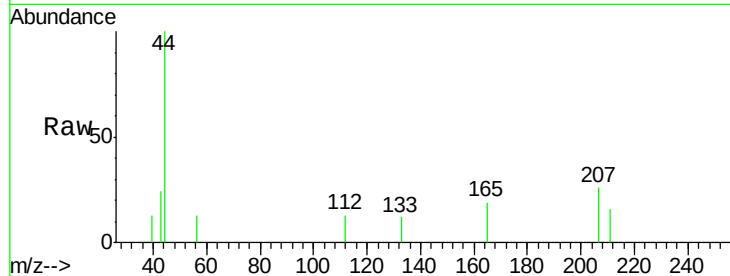




#13
Acrolein
Concen: 185.405 ug/l
RT: 2.05 min Scan# 154
Delta R.T. -0.03 min
Lab File: VF059423.D
Acq: 3 Jul 2018 20:20

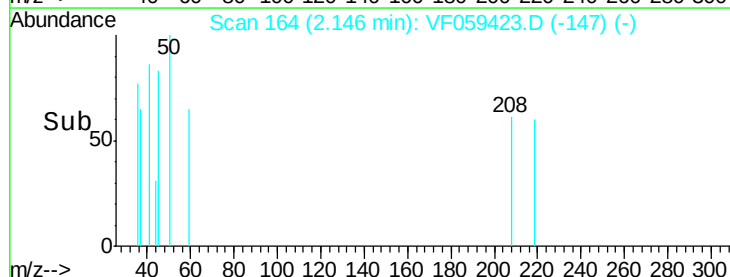
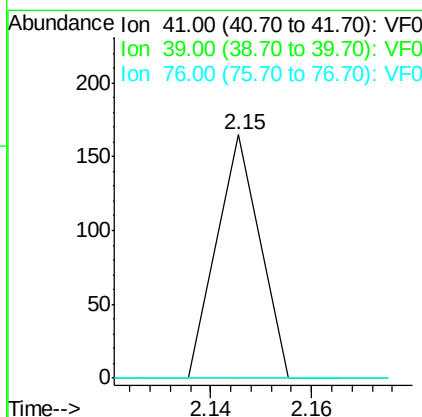
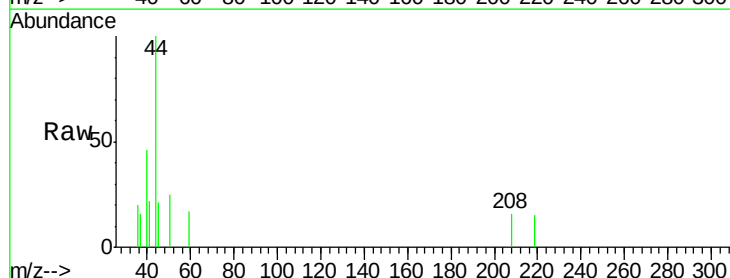
Instrument :
MSVOA_F
ClientSampled :
GF-G-3

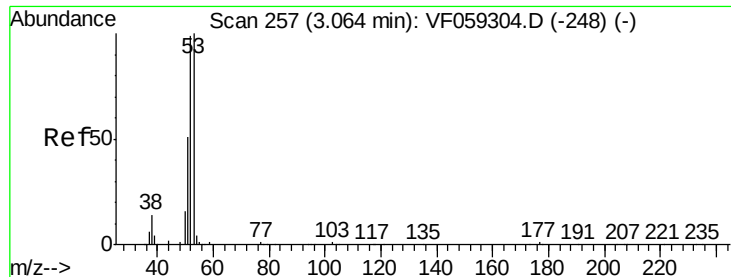
Tot Ion: 56 Resp: 67
Ion Ratio Lower Upper
56 100
55 0.0 62.4 93.6#



#14
Allyl chloride
Concen: 10.321 ug/l
RT: 2.15 min Scan# 164
Delta R.T. -0.03 min
Lab File: VF059423.D
Acq: 3 Jul 2018 20:20

Tgt Ion: 41 Resp: 98
Ion Ratio Lower Upper
41 100
39 0.0 105.6 158.4#
76 0.0 21.6 32.4#





#15

Acrylonitrile

Concen: 47.708 ug/l

RT: 3.07 min Scan# 258

Delta R.T. 0.01 min

Lab File: VF059423.D

Acq: 3 Jul 2018 20:20

Instrument :

MSVOA_F

ClientSampled :

GF-G-3

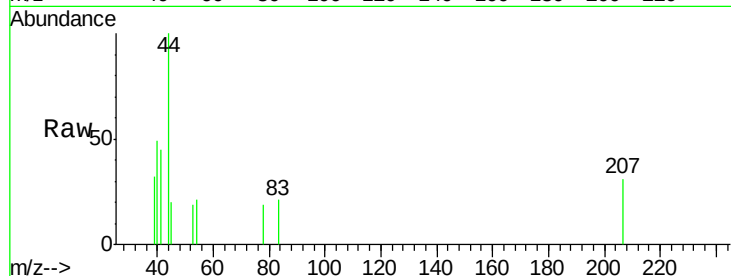
Tot Ion: 53 Resp: 62

Ion Ratio Lower Upper

53 100

52 0.0 79.2 118.8#

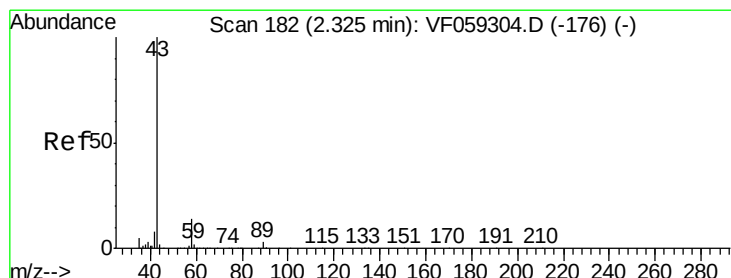
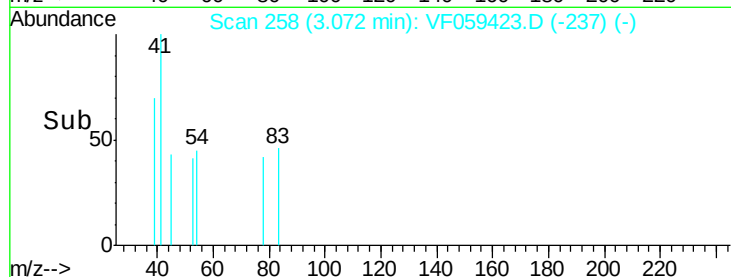
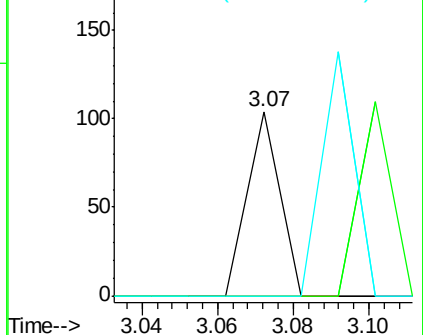
51 0.0 40.9 61.3#



Abundance Ion 53.00 (52.70 to 53.70): VF0

Ion 52.00 (51.70 to 52.70): VF0

Ion 51.00 (50.70 to 51.70): VF0



#16

Acetone

Concen: 13.091 ug/l

RT: 2.34 min Scan# 184

Delta R.T. 0.02 min

Lab File: VF059423.D

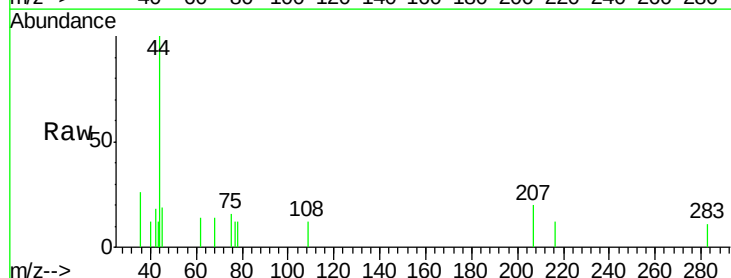
Acq: 3 Jul 2018 20:20

Tgt Ion: 43 Resp: 63

Ion Ratio Lower Upper

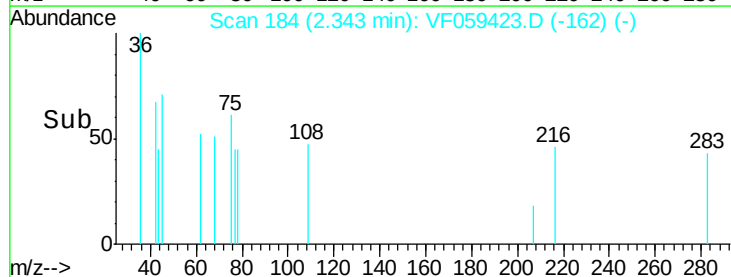
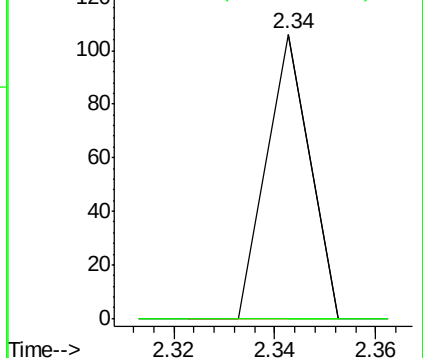
43 100

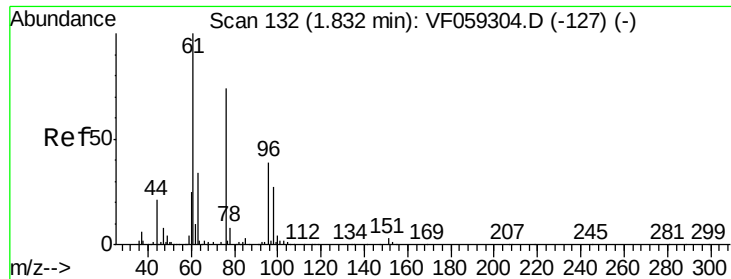
58 0.0 11.4 17.0#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

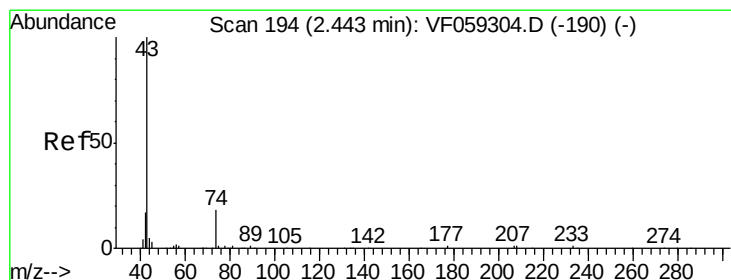
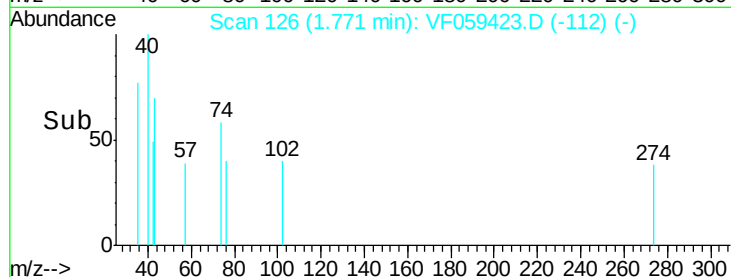
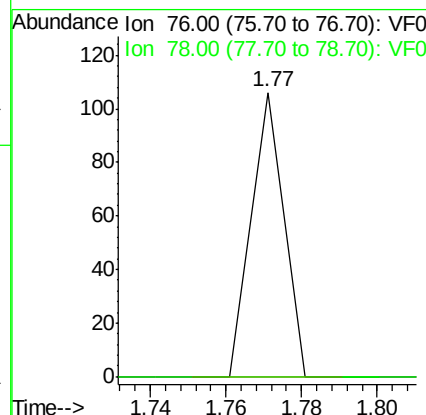
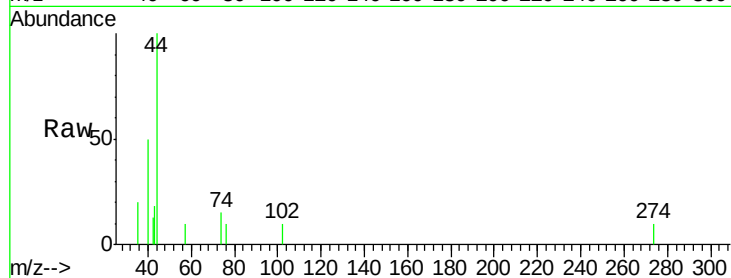




#17
Carbon Disulfide
Concen: 5.295 ug/l
RT: 1.77 min Scan# 126
Delta R.T. -0.06 min
Lab File: VF059423.D
Acq: 3 Jul 2018 20:20

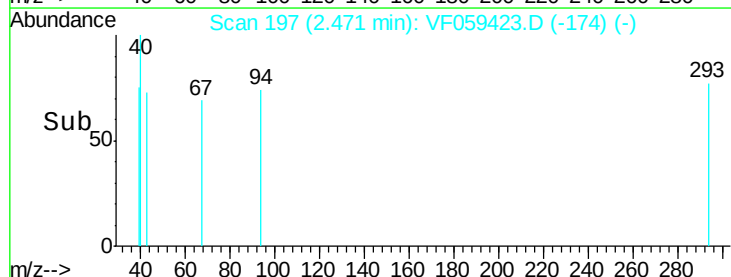
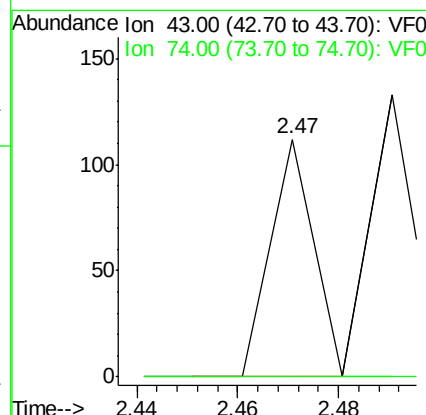
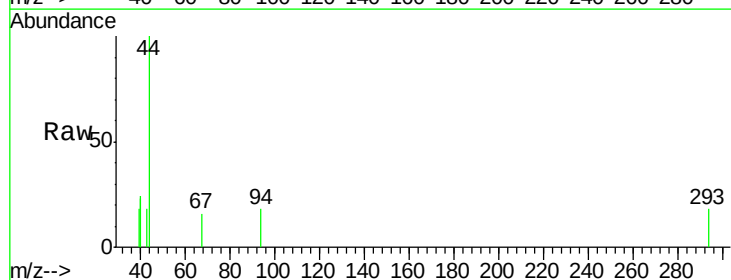
Instrument :
MSVOA_F
ClientSampleId :
GF-G-3

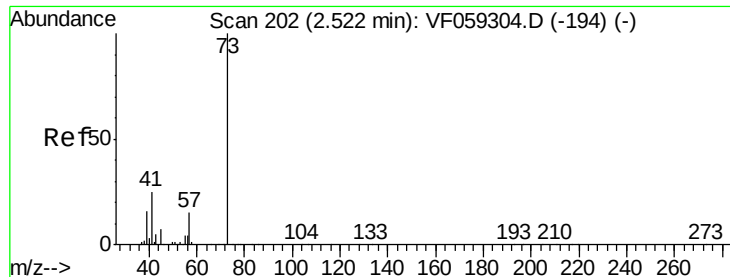
Tot Ion: 76 Resp: 63
Ion Ratio Lower Upper
76 100
78 0.0 8.9 13.3#



#18
Methyl Acetate
Concen: 12.314 ug/l
RT: 2.47 min Scan# 197
Delta R.T. 0.03 min
Lab File: VF059423.D
Acq: 3 Jul 2018 20:20

Tgt Ion: 43 Resp: 66
Ion Ratio Lower Upper
43 100
74 0.0 13.3 19.9#



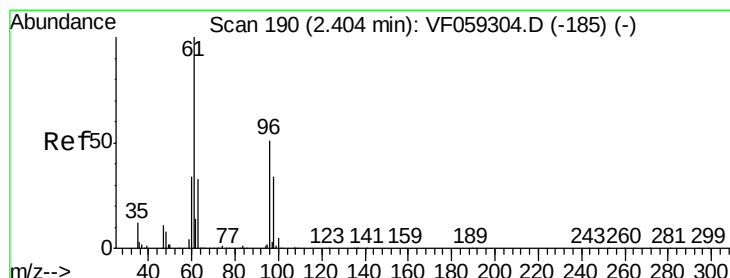
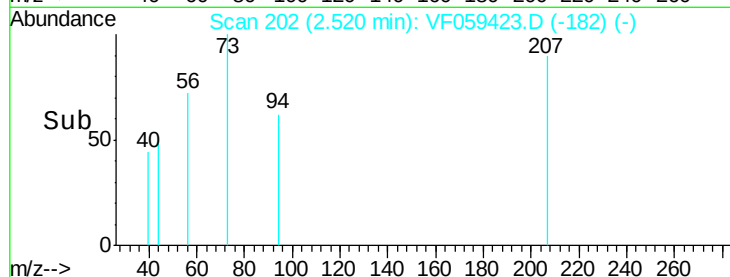
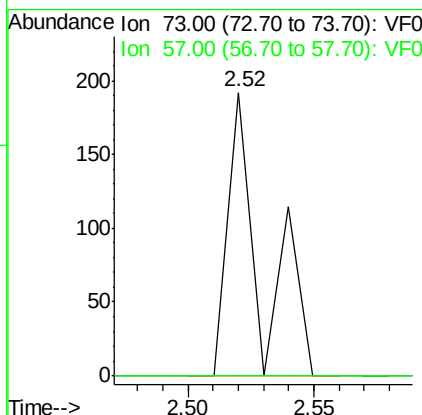
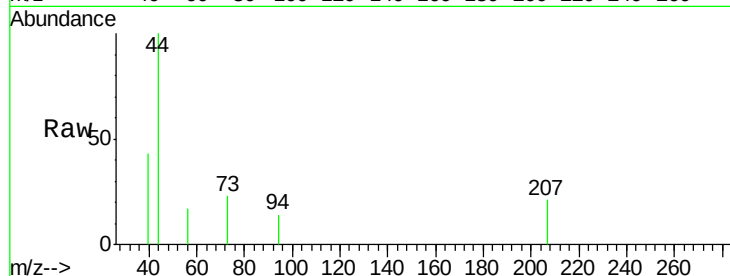


#19

Methyl tert-butyl Ether
 Concen: 9.646 ug/l
 RT: 2.52 min Scan# 202
 Delta R.T. -0.00 min
 Lab File: VF059423.D
 Acq: 3 Jul 2018 20:20

Instrument :
 MSVOA_F
 ClientSampled :
 GF-G-3

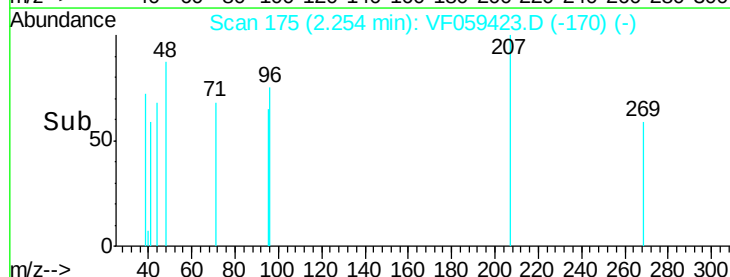
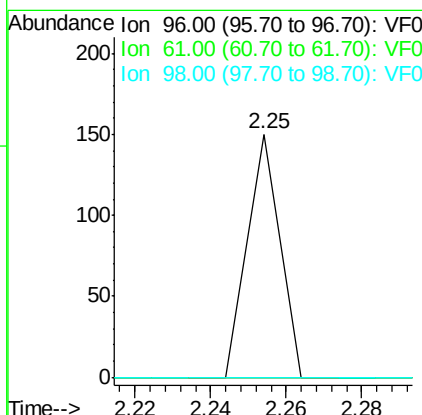
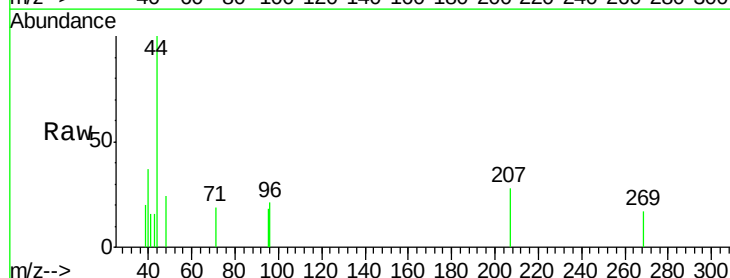
Tot Ion: 73 Resp: 182
 Ion Ratio Lower Upper
 73 100
 57 0.0 12.3 18.5#

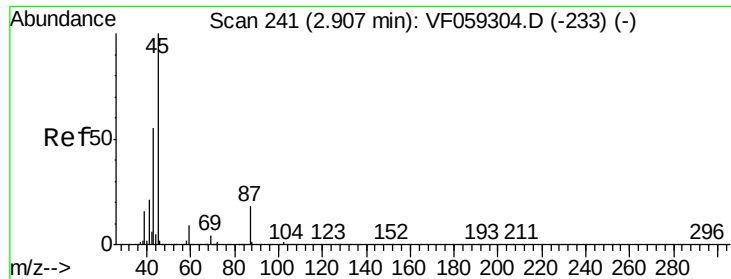


#21

trans-1,2-Dichloroethene
 Concen: 16.494 ug/l
 RT: 2.25 min Scan# 175
 Delta R.T. -0.15 min
 Lab File: VF059423.D
 Acq: 3 Jul 2018 20:20

Tgt Ion: 96 Resp: 89
 Ion Ratio Lower Upper
 96 100
 61 0.0 157.4 236.2#
 98 0.0 53.7 80.5#





#22

Diisopropyl ether

Concen: 4.090 ug/l

RT: 2.89 min Scan# 240

Delta R.T. -0.01 min

Lab File: VF059423.D

Acq: 3 Jul 2018 20:20

Instrument :

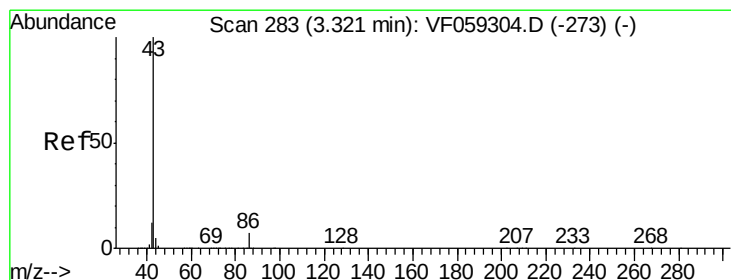
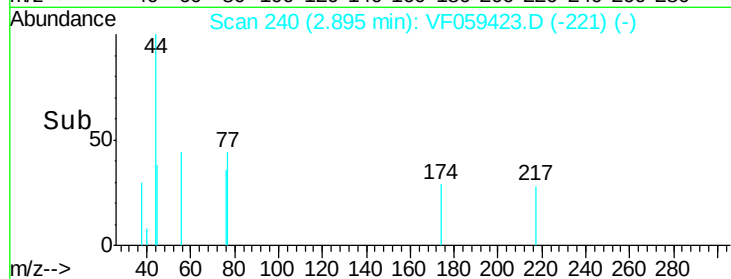
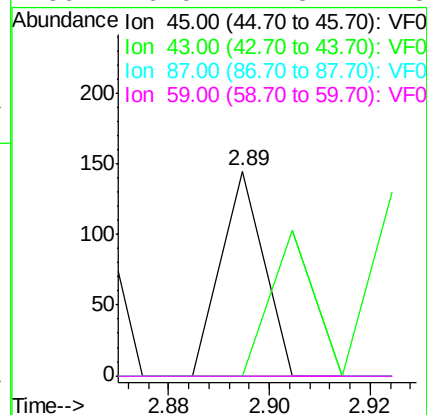
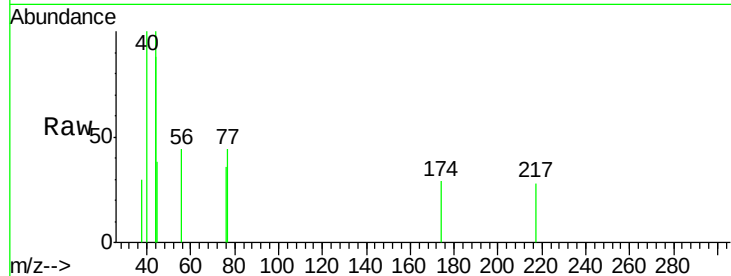
MSVOA_F

ClientSampled :

GF-G-3

Tot Ion: 45 Resp: 86

Ion	Ratio	Lower	Upper
45	100		
43	0.0	44.6	66.8#
87	0.0	14.3	21.5#
59	0.0	7.5	11.3#



#23

Vinyl Acetate

Concen: 7.393 ug/l

RT: 3.33 min Scan# 284

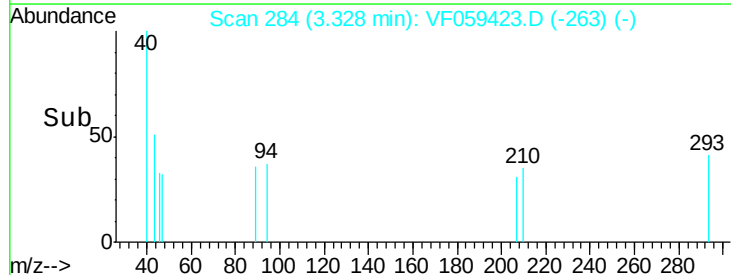
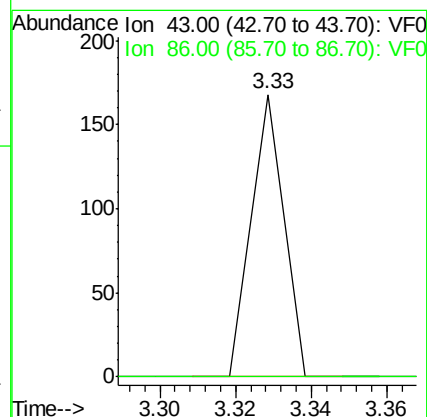
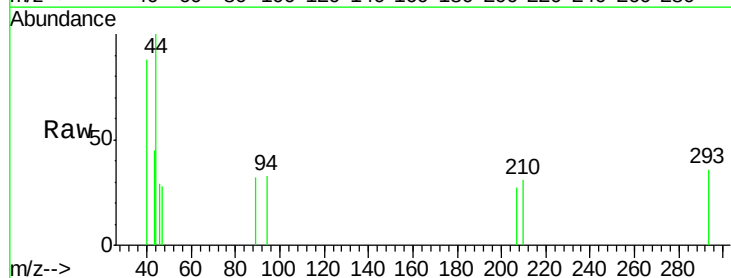
Delta R.T. 0.01 min

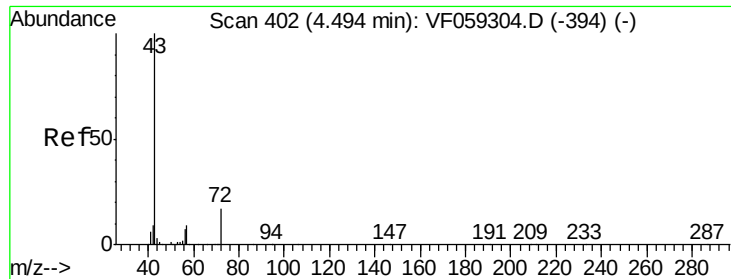
Lab File: VF059423.D

Acq: 3 Jul 2018 20:20

Tgt Ion: 43 Resp: 99

Ion	Ratio	Lower	Upper
43	100		
86	0.0	5.8	8.6#





#25

2-Butanone

Concen: 61.446 ug/l

RT: 4.50 min Scan# 403

Delta R.T. 0.01 min

Lab File: VF059423.D

Acq: 3 Jul 2018 20:20

Instrument :

MSVOA_F

ClientSampled :

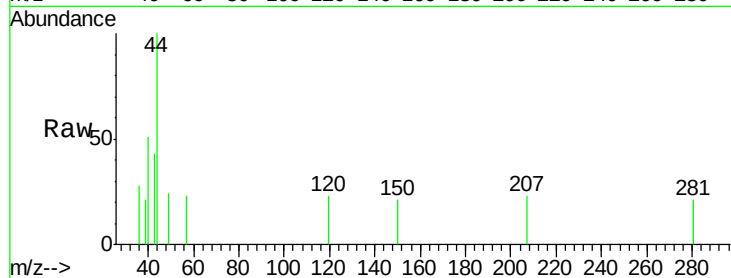
GF-G-3

Tot Ion: 43 Resp: 213

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

4.50

200

150

100

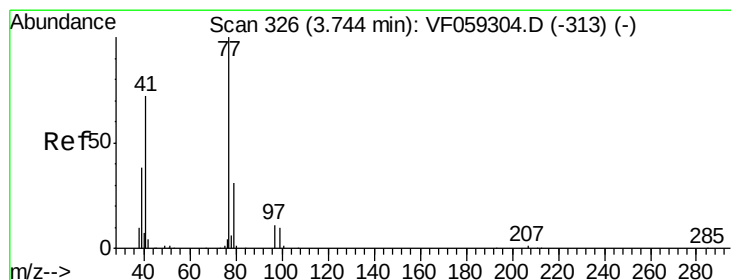
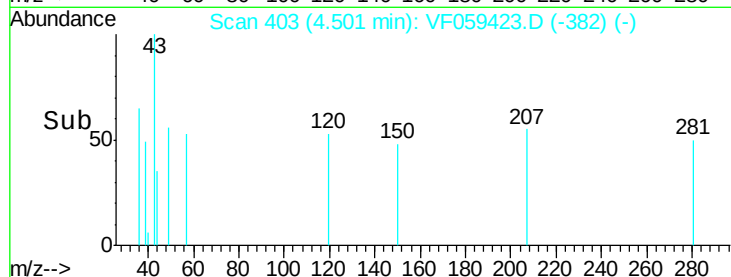
50

0

4.50

4.55

Time-->



#26

2,2-Dichloropropane

Concen: 15.903 ug/l

RT: 3.75 min Scan# 327

Delta R.T. 0.01 min

Lab File: VF059423.D

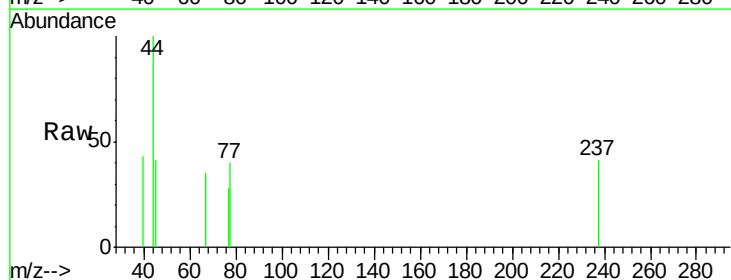
Acq: 3 Jul 2018 20:20

Tgt Ion: 77 Resp: 143

Ion Ratio Lower Upper

77 100

97 0.0 8.0 23.8#



Abundance Ion 77.00 (76.70 to 77.70): VF0

Ion 97.00 (96.70 to 97.70): VF0

3.75

250

200

150

100

50

0

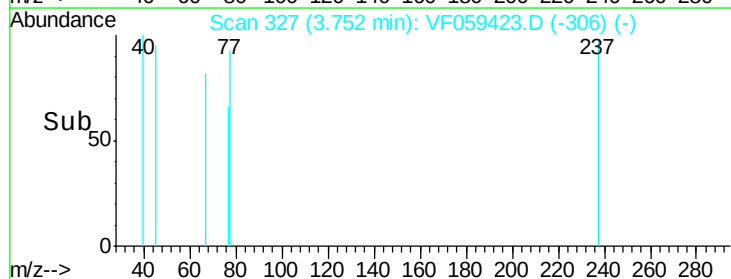
3.72

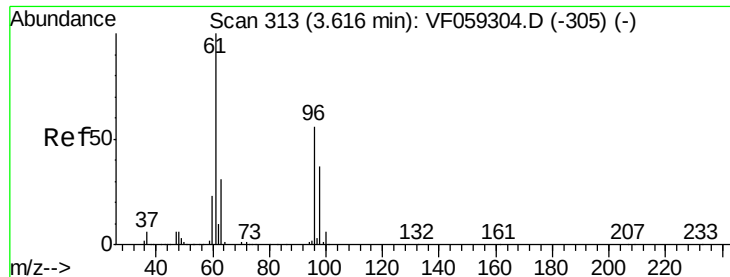
3.74

3.76

3.78

Time-->



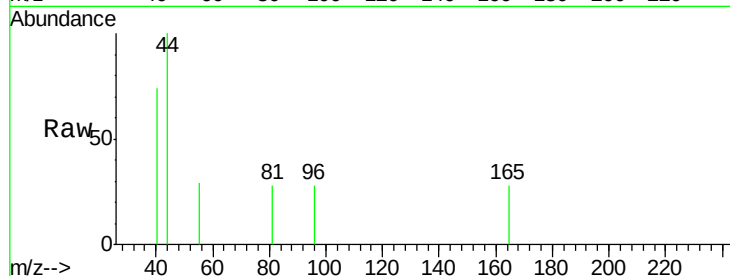


#27

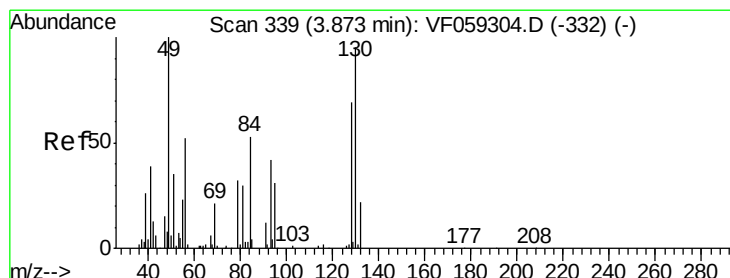
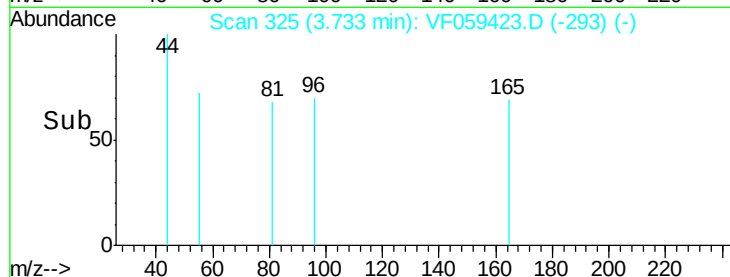
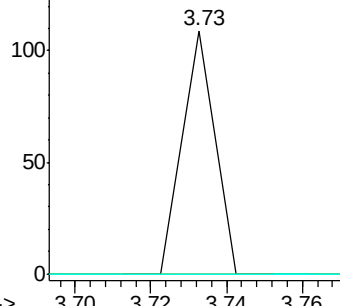
cis-1,2-Dichloroethene
Concen: 7.812 ug/l
RT: 3.73 min Scan# 325
Delta R.T. 0.12 min
Lab File: VF059423.D
Acq: 3 Jul 2018 20:20

Instrument :
MSVOA_F
ClientSampled :
GF-G-3

Tot Ion	Ratio	Lower	Upper
96	100		
61	0.0	0.0	355.4
98	0.0	0.0	131.0



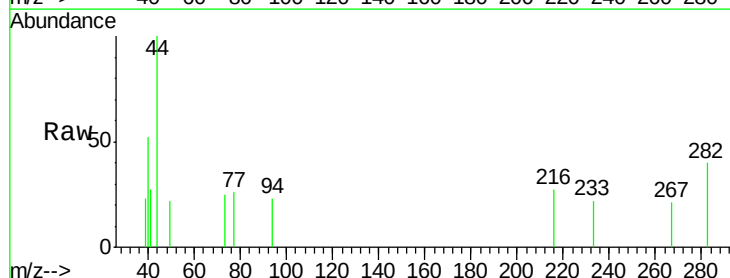
Abundance Ion 96.00 (95.70 to 96.70): VF0
Ion 61.00 (60.70 to 61.70): VF0
Ion 98.00 (97.70 to 98.70): VF0



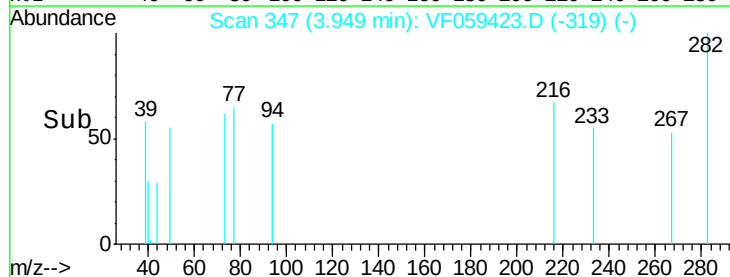
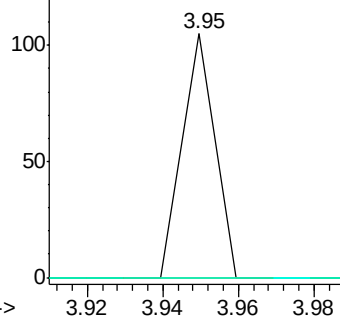
#28

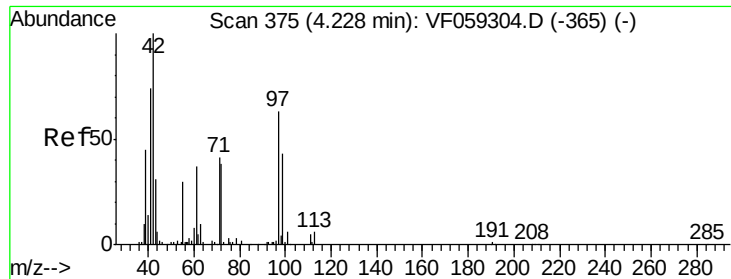
Bromochloromethane
Concen: 8.894 ug/l
RT: 3.95 min Scan# 347
Delta R.T. 0.08 min
Lab File: VF059423.D
Acq: 3 Jul 2018 20:20

Tgt 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

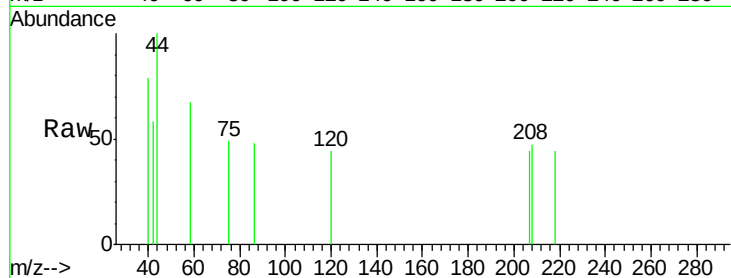




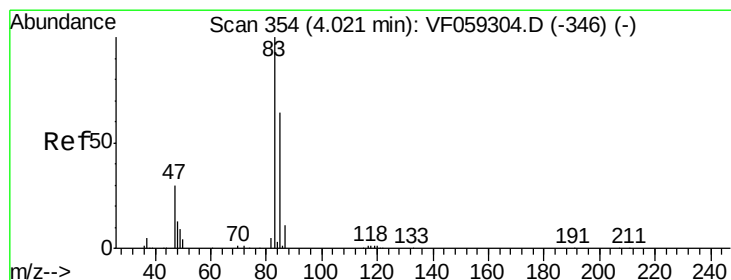
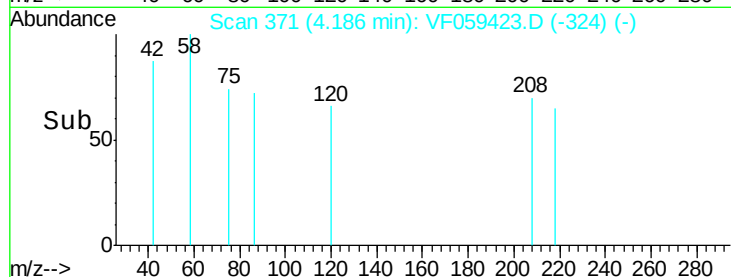
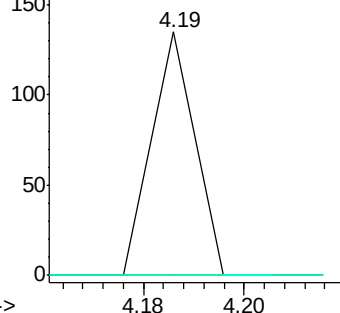
#29
Tetrahydrofuran
Concen: 48.987 ug/l
RT: 4.19 min Scan# 371
Delta R.T. -0.04 min
Lab File: VF059423.D
Acq: 3 Jul 2018 20:20

Instrument :
MSVOA_F
ClientSampleId :
GF-G-3

Tot Ion: 42 Resp: 80
Ion Ratio Lower Upper
42 100
72 0.0 30.5 45.7#
71 0.0 32.5 48.7#

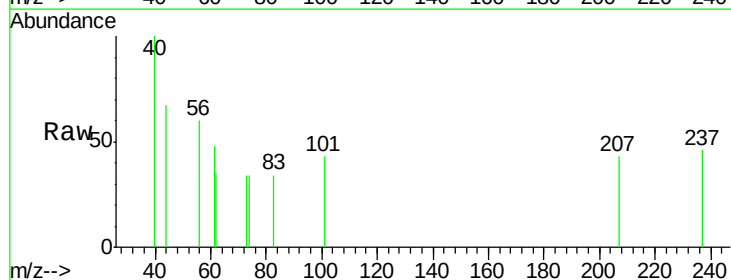


Abundance Ion 42.00 (41.70 to 42.70): VF0
Ion 72.00 (71.70 to 72.70): VF0
Ion 71.00 (70.70 to 71.70): VF0

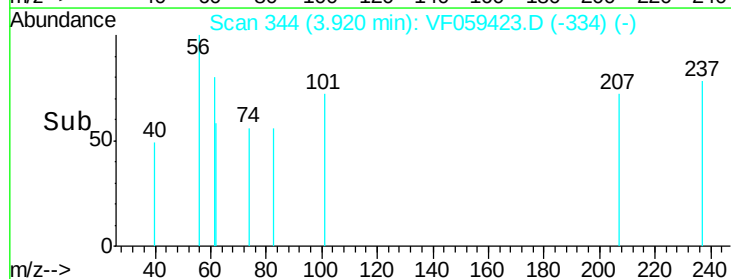
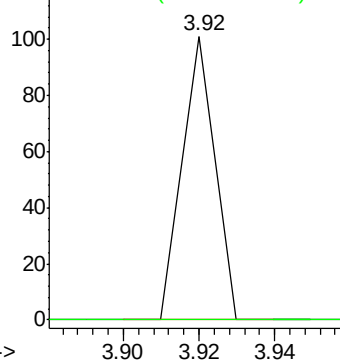


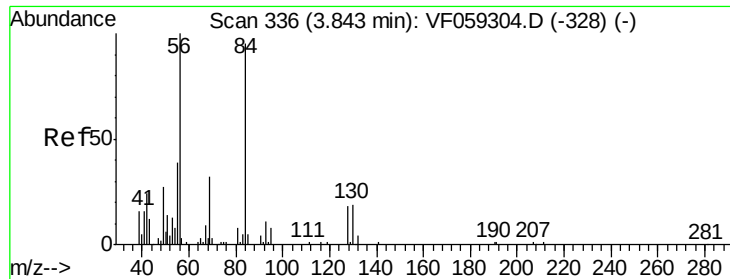
#30
Chloroform
Concen: 3.179 ug/l
RT: 3.92 min Scan# 344
Delta R.T. -0.10 min
Lab File: VF059423.D
Acq: 3 Jul 2018 20:20

Tgt Ion: 83 Resp: 60
Ion Ratio Lower Upper
83 100
85 0.0 51.3 76.9#



Abundance Ion 83.00 (82.70 to 83.70): VF0
Ion 85.00 (84.70 to 85.70): VF0





#31

Cyclohexane

Concen: 14.285 ug/l

RT: 3.85 min Scan# 337

Delta R.T. 0.01 min

Lab File: VF059423.D

Acq: 3 Jul 2018 20:20

Instrument :

MSVOA_F

ClientSampled :

GF-G-3

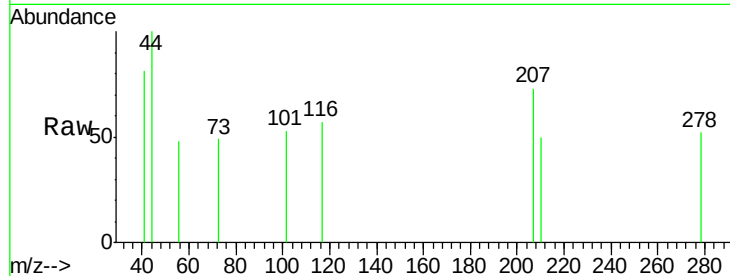
Tot Ion: 56 Resp: 122

Ion Ratio Lower Upper

56 100

69 0.0 25.8 38.8#

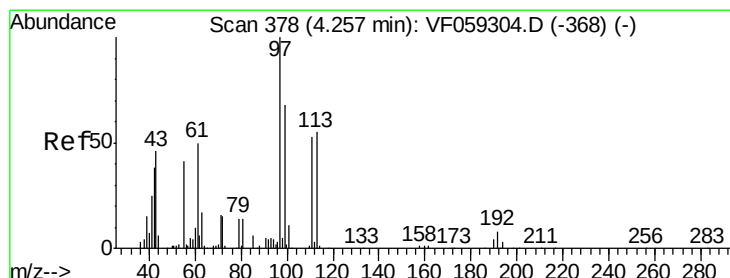
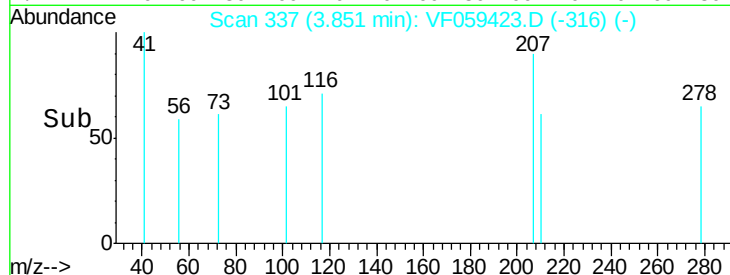
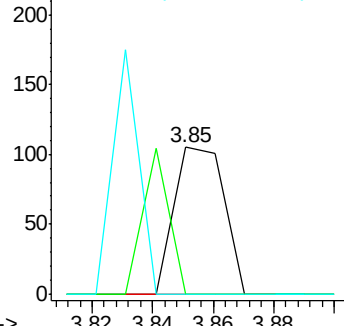
84 0.0 75.6 113.4#



Abundance Ion 56.00 (55.70 to 56.70): VF0

Ion 69.00 (68.70 to 69.70): VF0

Ion 84.00 (83.70 to 84.70): VF0



#32

1,1,1-Trichloroethane

Concen: 9.557 ug/l

RT: 4.27 min Scan# 380

Delta R.T. 0.02 min

Lab File: VF059423.D

Acq: 3 Jul 2018 20:20

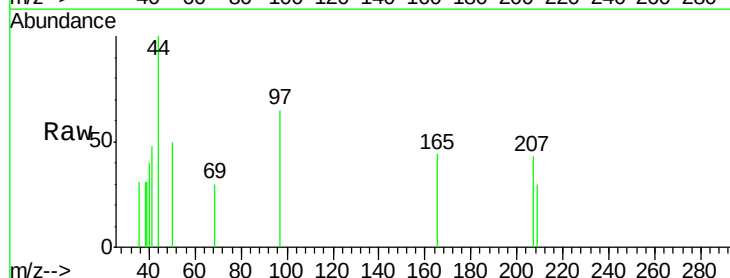
Tgt Ion: 97 Resp: 132

Ion Ratio Lower Upper

97 100

99 0.0 54.1 81.1#

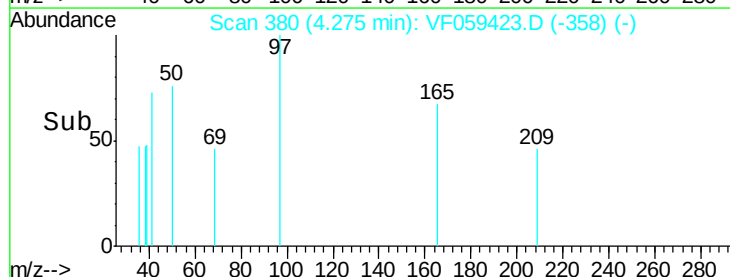
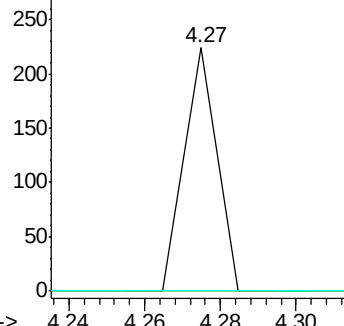
61 0.0 41.2 61.8#

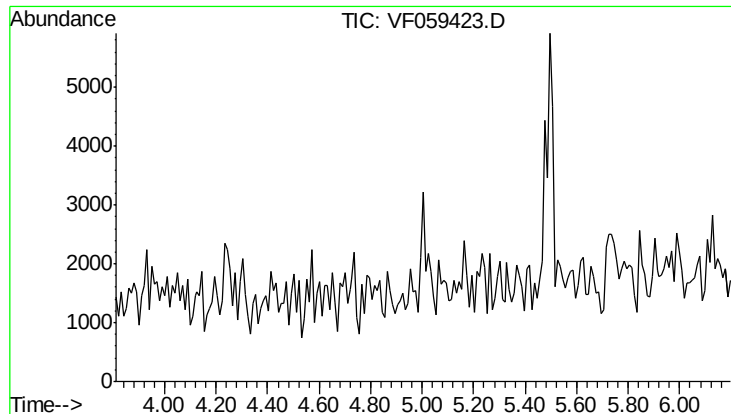


Abundance Ion 97.00 (96.70 to 97.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

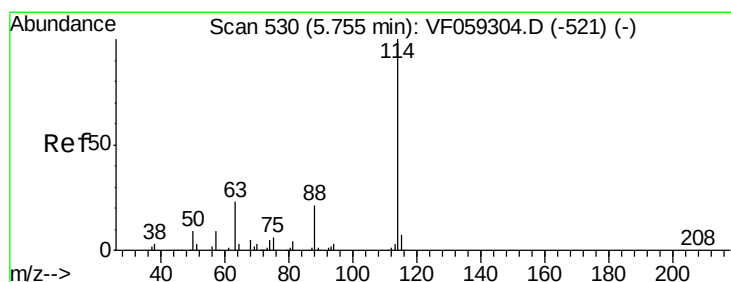
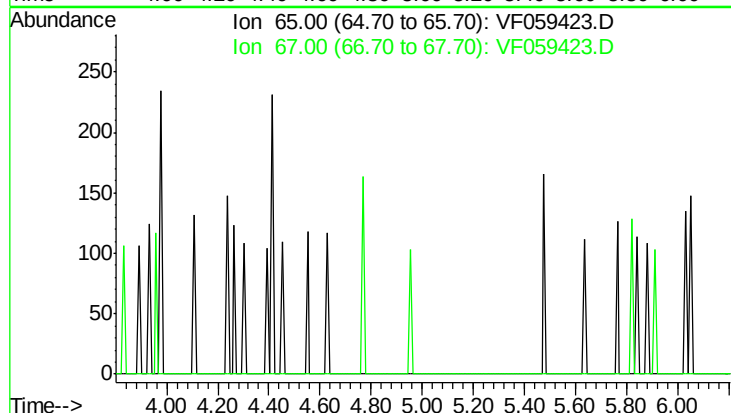




#33
 1,2-Dichloroethane-d4
 Concen: 0.000 ug/l
 Expected RT: 5.01 min
 Lab File: VF059423.D
 Acq: 3 Jul 2018 20:20

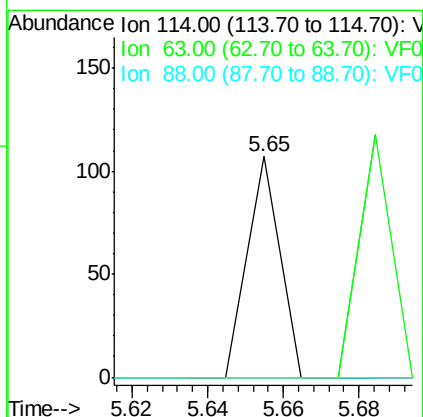
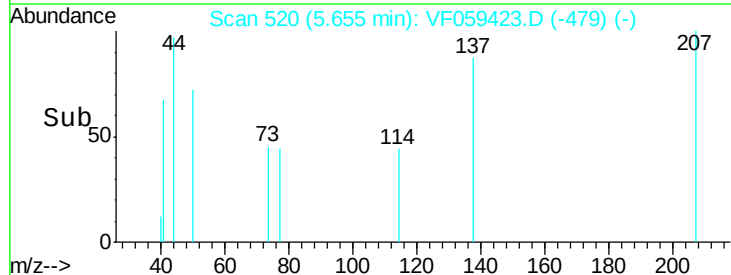
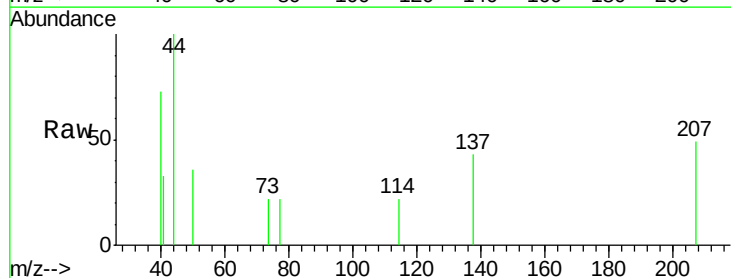
Instrument :
 MSVOA_F
 ClientSampleId :
 GF-G-3

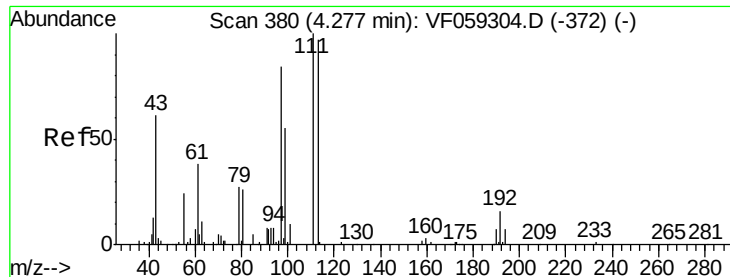
Tot Ion: 65
 Sig Exp Ratio
 65 100
 67 48.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.65 min Scan# 520
 Delta R.T. -0.10 min
 Lab File: VF059423.D
 Acq: 3 Jul 2018 20:20

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





#35

Dibromofluoromethane

Concen: 701.685 ug/l

RT: 4.25 min Scan# 378

Delta R.T. -0.02 min

Lab File: VF059423.D

Acq: 3 Jul 2018 20:20

Instrument :

MSVOA_F

ClientSampleId :

GF-G-3

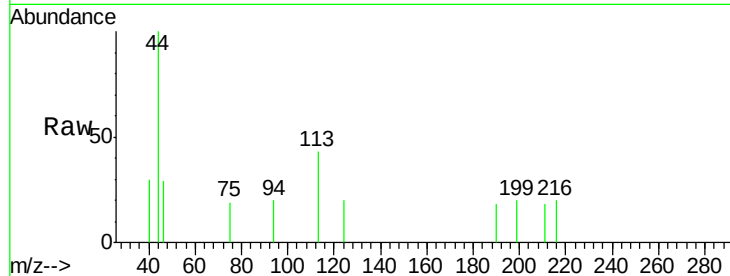
Tot Ion:113 Resp: 323

Ion Ratio Lower Upper

113 100

111 0.0 82.1 123.1#

192 0.0 13.0 19.6#



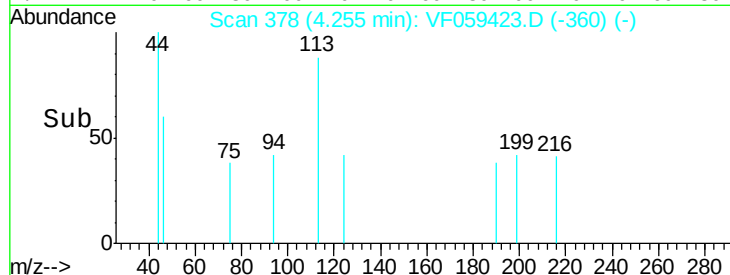
Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V

Time-->

4.20 4.25



Time-->

#36

1,1-Dichloropropene

Concen: 285.270 ug/l

RT: 4.25 min Scan# 377

Delta R.T. -0.20 min

Lab File: VF059423.D

Acq: 3 Jul 2018 20:20

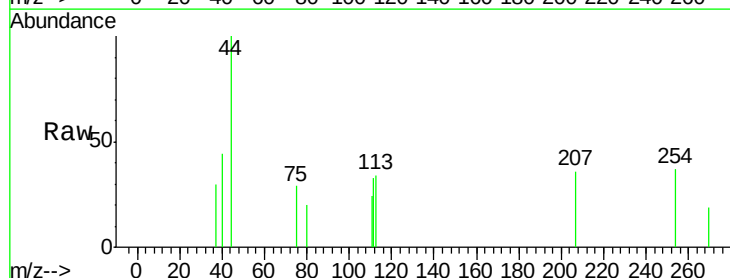
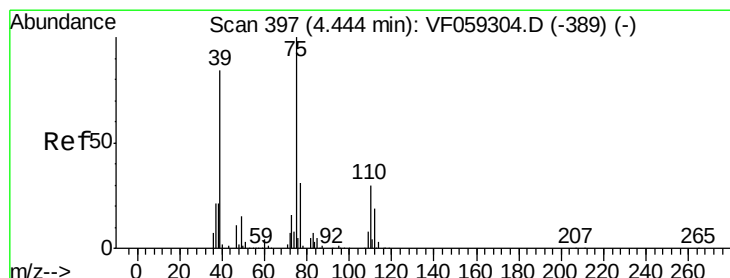
Tgt Ion: 75 Resp: 157

Ion Ratio Lower Upper

75 100

110 83.1 14.8 44.4#

77 0.0 25.2 37.8#



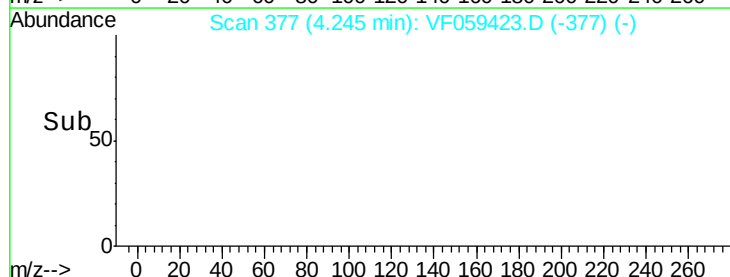
Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 110.00 (109.70 to 110.70): V

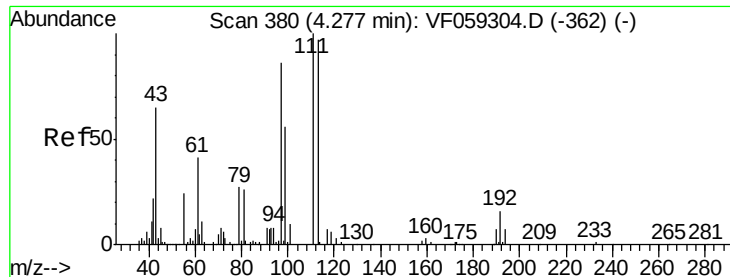
Ion 77.00 (76.70 to 77.70): VF0

Time-->

4.22 4.24 4.26 4.28



Time-->



#37

Ethyl Acetate

Concen: 185.809 ug/l

RT: 4.20 min Scan# 372

Delta R.T. -0.08 min

Lab File: VF059423.D

Acq: 3 Jul 2018 20:20

Instrument :

MSVOA_F

ClientSampleId :

GF-G-3

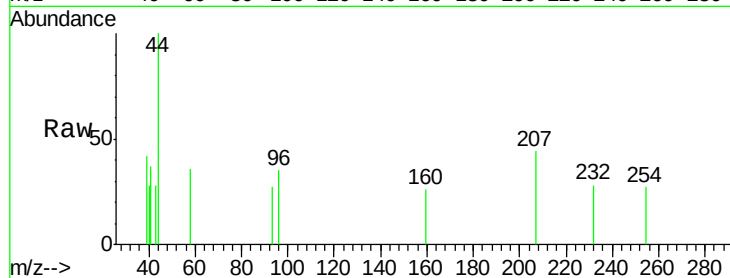
Tot Ion: 43 Resp: 64

Ion Ratio Lower Upper

43 100

61 0.0 50.1 75.1#

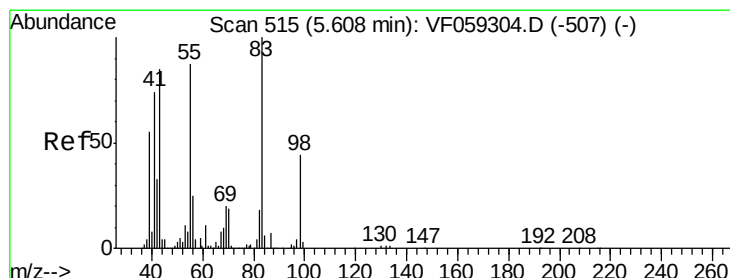
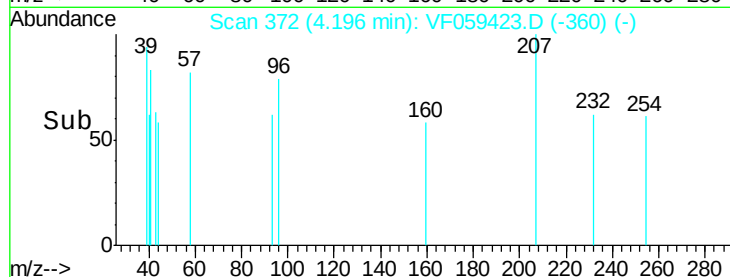
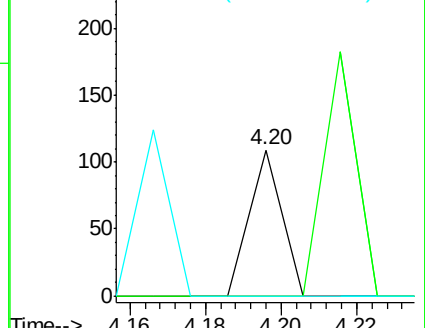
70 0.0 6.2 9.4#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 70.00 (69.70 to 70.70): VF0



#39

Methylcyclohexane

Concen: 141.481 ug/l

RT: 5.58 min Scan# 512

Delta R.T. -0.03 min

Lab File: VF059423.D

Acq: 3 Jul 2018 20:20

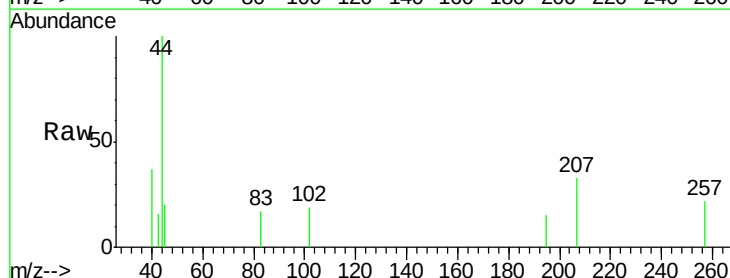
Tgt Ion: 83 Resp: 69

Ion Ratio Lower Upper

83 100

55 0.0 69.2 103.8#

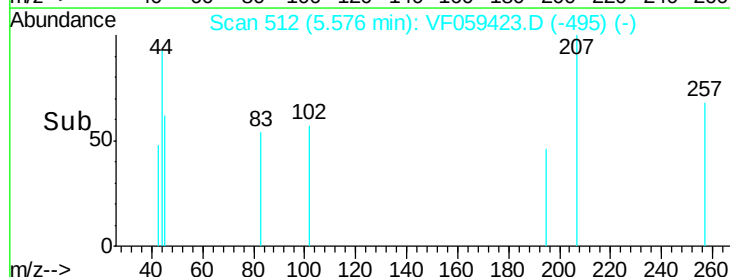
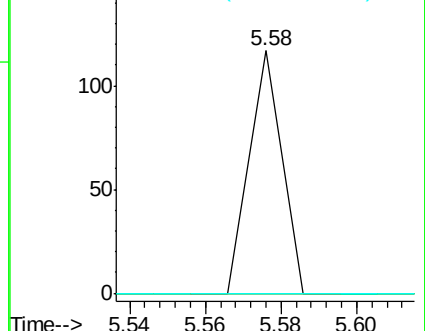
98 0.0 35.0 52.6#

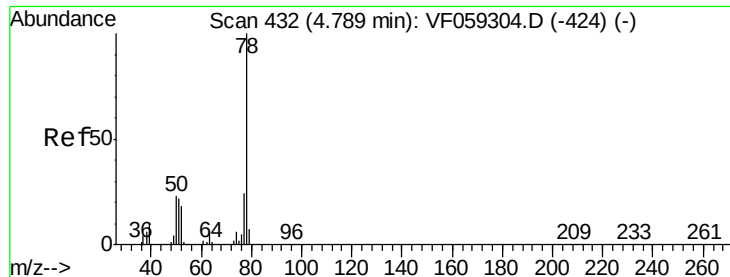


Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 98.00 (97.70 to 98.70): VF0





#40

Benzene

Concen: 50.809 ug/l

RT: 4.68 min Scan# 421

Delta R.T. -0.11 min

Lab File: VF059423.D

Acq: 3 Jul 2018 20:20

Instrument :

MSVOA_F

ClientSampleId :

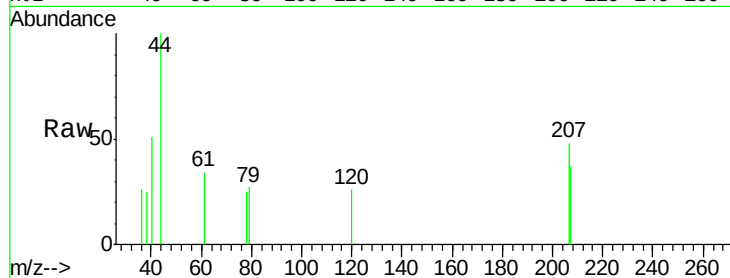
GF-G-3

Tot Ion: 78 Resp: 62

Ion Ratio Lower Upper

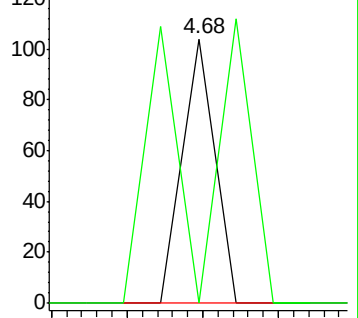
78 100

77 0.0 19.6 29.4#

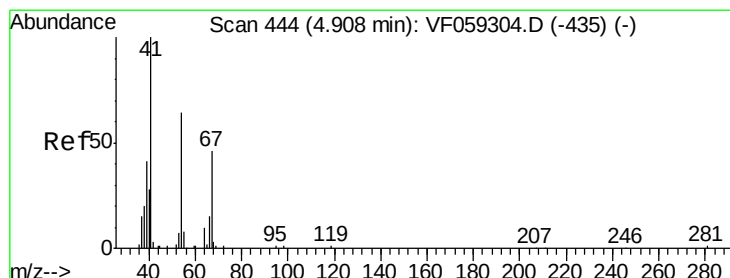
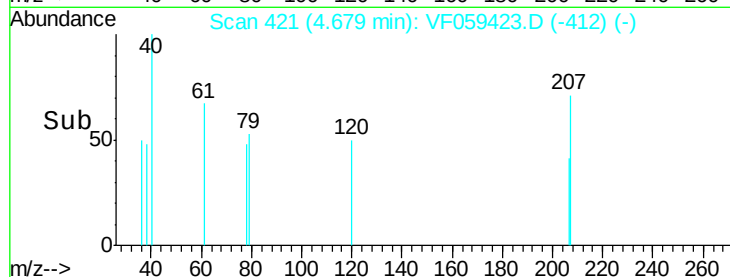


Abundance Ion 78.10 (77.80 to 78.80): VF0

Ion 77.00 (76.70 to 77.70): VF0



Time--> 4.64 4.66 4.68 4.70



#41

Methacrylonitrile

Concen: 767.044 ug/l

RT: 4.81 min Scan# 434

Delta R.T. -0.10 min

Lab File: VF059423.D

Acq: 3 Jul 2018 20:20

Tgt Ion: 41 Resp: 144

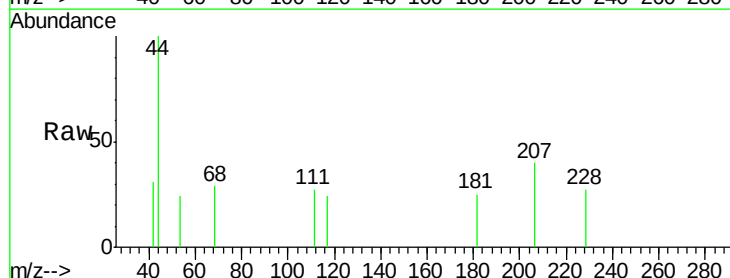
Ion Ratio Lower Upper

41 100

39 0.0 50.0 75.0#

67 0.0 37.0 55.6#

52 0.0 37.1 55.7#

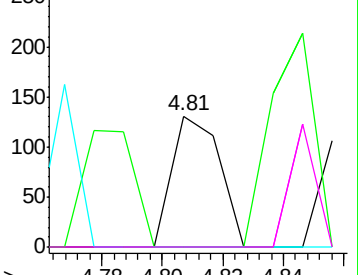


Abundance Ion 41.00 (40.70 to 41.70): VF0

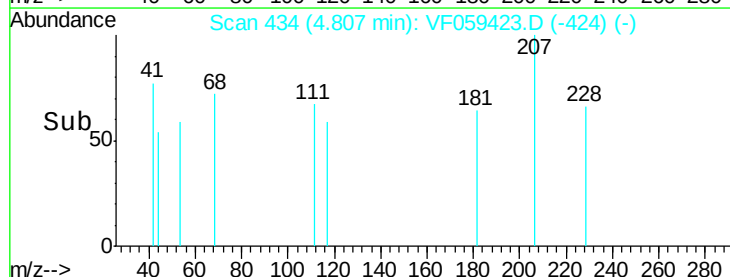
Ion 39.00 (38.70 to 39.70): VF0

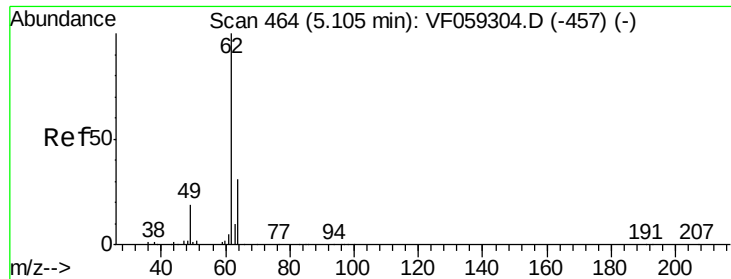
Ion 67.00 (66.70 to 67.70): VF0

Ion 52.00 (51.70 to 52.70): VF0



Time--> 4.78 4.80 4.82 4.84





#42

1,2-Dichloroethane

Concen: 141.647 ug/l

RT: 4.88 min Scan# 441

Delta R.T. -0.23 min

Lab File: VF059423.D

Acq: 3 Jul 2018 20:20

Instrument :

MSVOA_F

ClientSampleId :

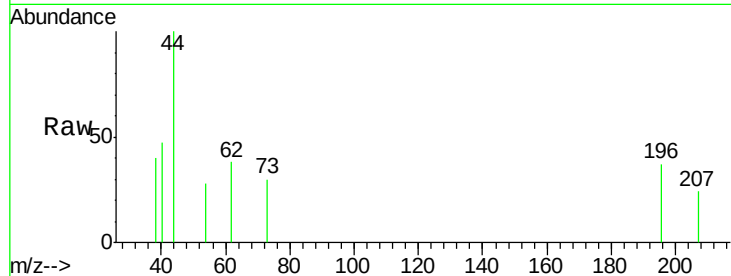
GF-G-3

Tot Ion: 62 Resp: 101

Ion Ratio Lower Upper

62 100

98 0.0 0.0 11.4



Abundance Ion 62.00 (61.70 to 62.70): VF0

Ion 98.00 (97.70 to 98.70): VF0

4.88

150

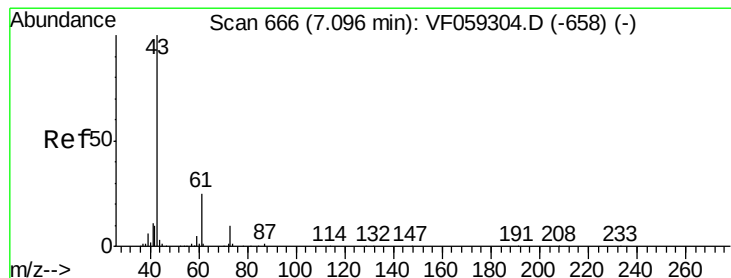
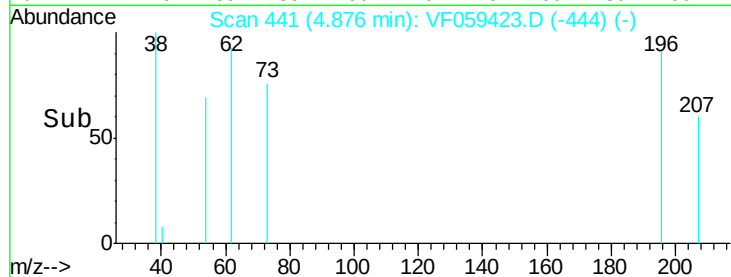
100

50

0

4.84 4.86 4.88 4.90

Time-->



#43

Isopropyl Acetate

Concen: 351.207 ug/l

RT: 6.96 min Scan# 652

Delta R.T. -0.14 min

Lab File: VF059423.D

Acq: 3 Jul 2018 20:20

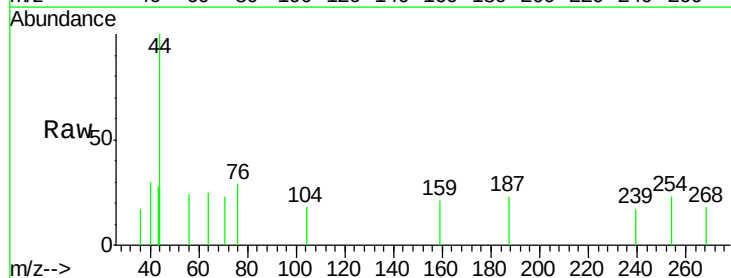
Tgt Ion: 43 Resp: 161

Ion Ratio Lower Upper

43 100

61 0.0 19.7 29.5#

87 0.0 0.5 0.7#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

6.96

150

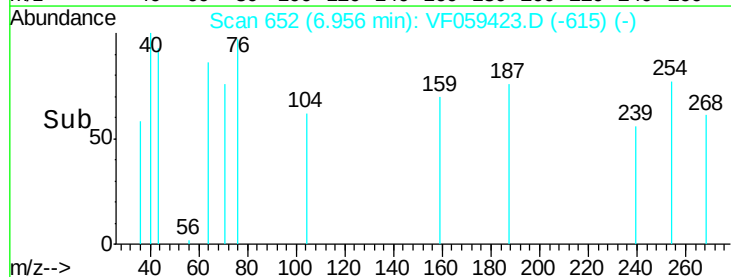
100

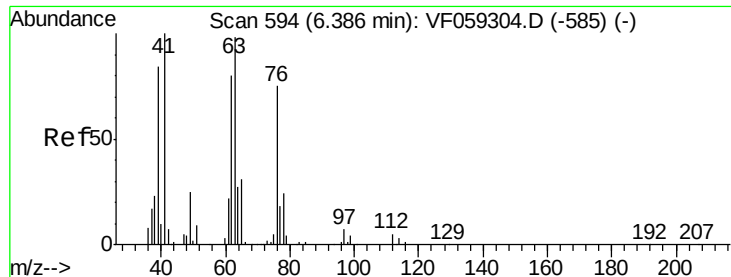
50

0

6.92 6.94 6.96 6.98 7.00

Time-->





#45

1,2-Dichloropropane

Concen: 172.098 ug/l

RT: 6.30 min Scan# 585

Delta R.T. -0.09 min

Lab File: VF059423.D

Acq: 3 Jul 2018 20:20

Instrument :

MSVOA_F

ClientSampled :

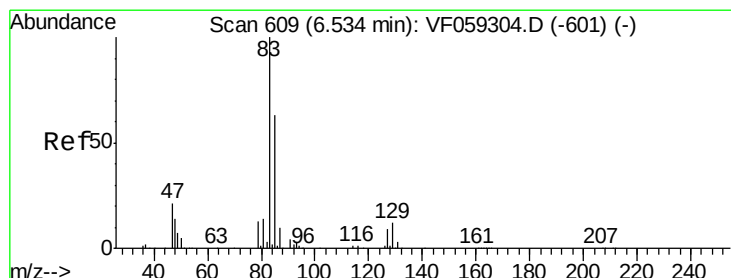
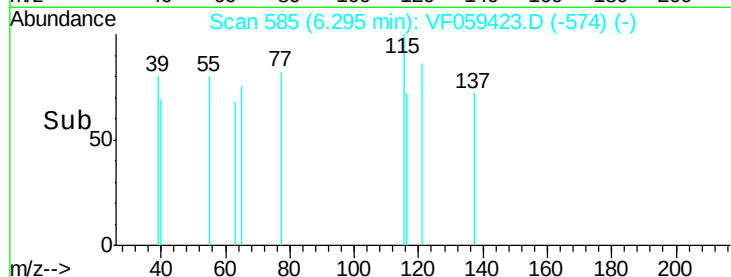
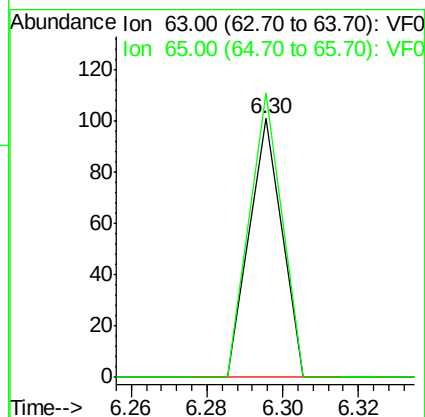
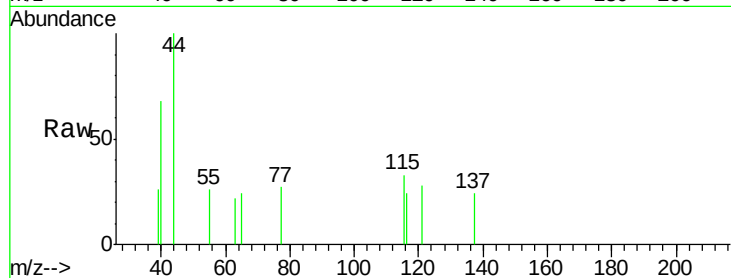
GF-G-3

Tot Ion: 63 Resp: 60

Ion Ratio Lower Upper

63 100

65 109.9 25.3 37.9#



#47

Bromodichloromethane

Concen: 91.468 ug/l

RT: 6.47 min Scan# 603

Delta R.T. -0.06 min

Lab File: VF059423.D

Acq: 3 Jul 2018 20:20

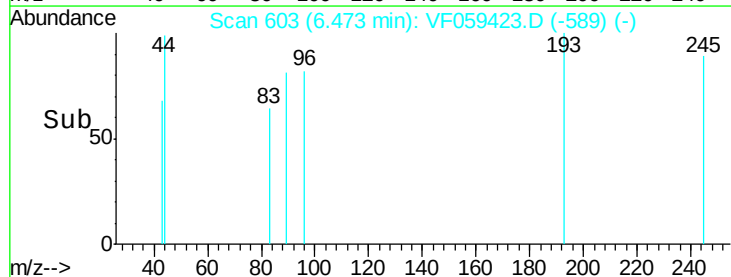
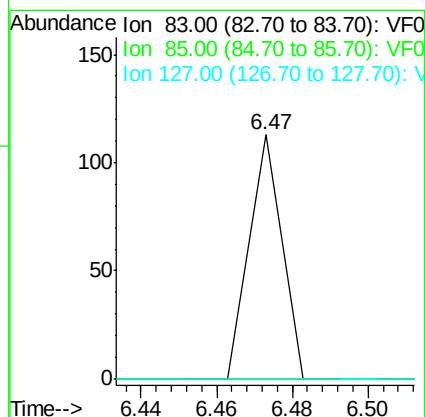
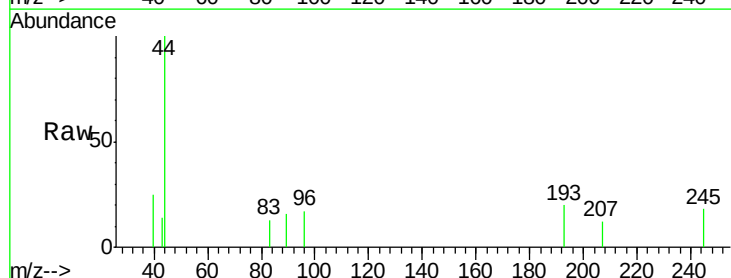
Tgt Ion: 83 Resp: 67

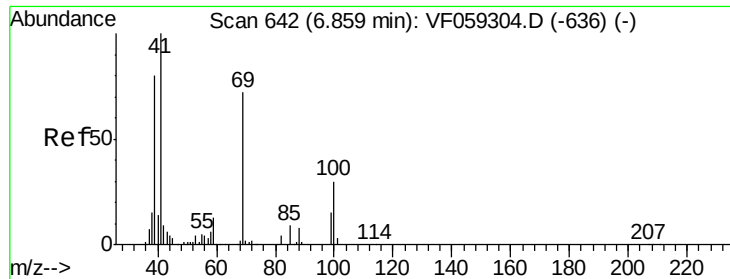
Ion Ratio Lower Upper

83 100

85 0.0 50.2 75.2#

127 0.0 7.0 10.4#

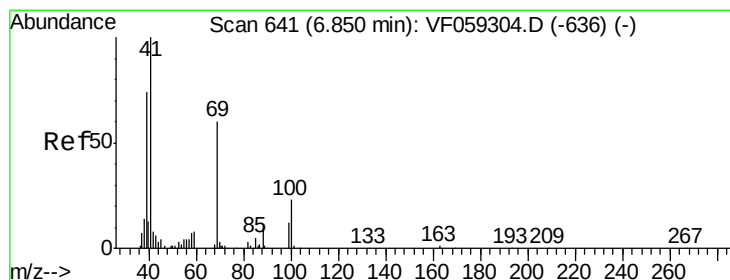
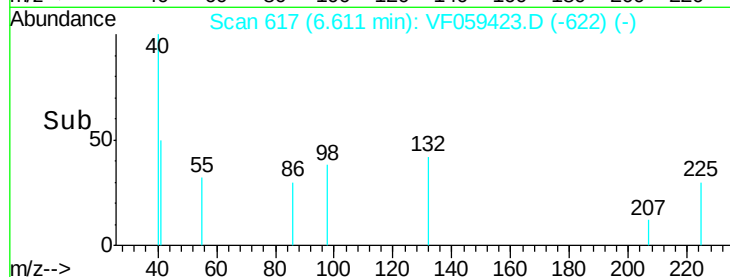
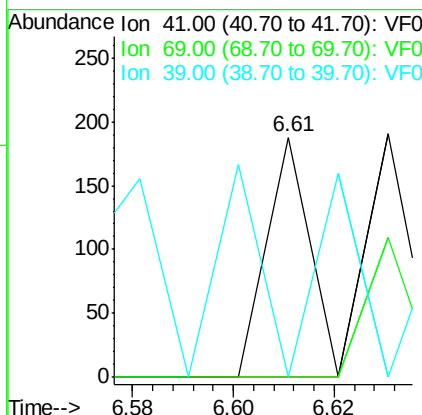
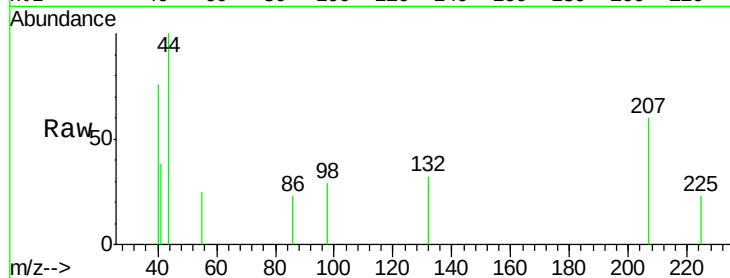




#48
Methvl methacrylate
Concen: 361.279 ug/l
RT: 6.61 min Scan# 617
Delta R.T. -0.25 min
Lab File: VF059423.D
Acq: 3 Jul 2018 20:20

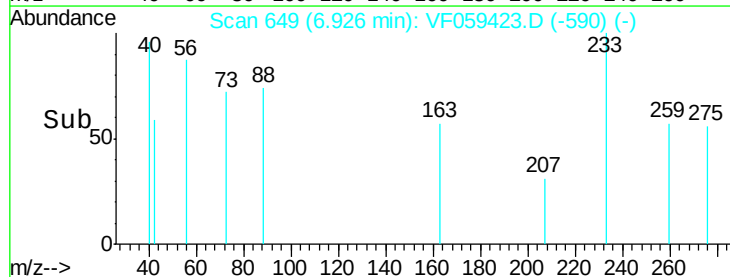
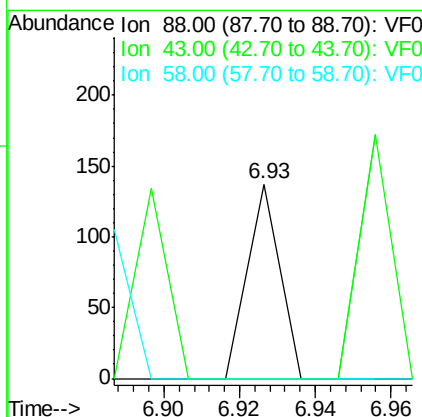
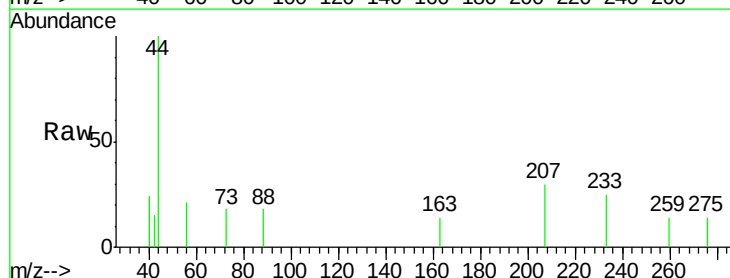
Instrument :
MSVOA_F
ClientSampled :
GF-G-3

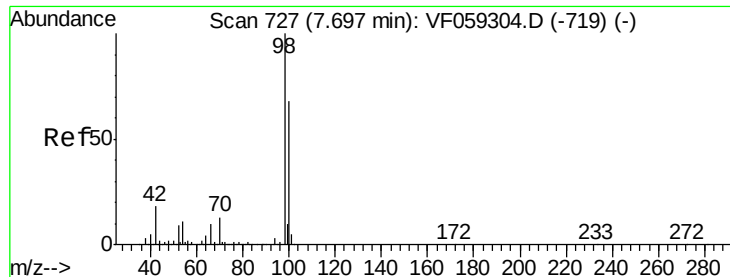
Tot Ion: 41 Resp: 111
Ion Ratio Lower Upper
41 100
69 0.0 57.3 85.9#
39 0.0 64.4 96.6#



#49
1,4-Dioxane
Concen: 51562.078 ug/l
RT: 6.93 min Scan# 649
Delta R.T. 0.08 min
Lab File: VF059423.D
Acq: 3 Jul 2018 20:20

Tgt Ion: 88 Resp: 81
Ion Ratio Lower Upper
88 100
43 0.0 50.6 75.8#
58 0.0 46.6 69.8#





#50

Toluene-d8

Concen: 545.754 ug/l

RT: 7.68 min Scan# 725

Delta R.T. -0.02 min

Lab File: VF059423.D

Acq: 3 Jul 2018 20:20

Instrument :

MSVOA_F

ClientSampled :

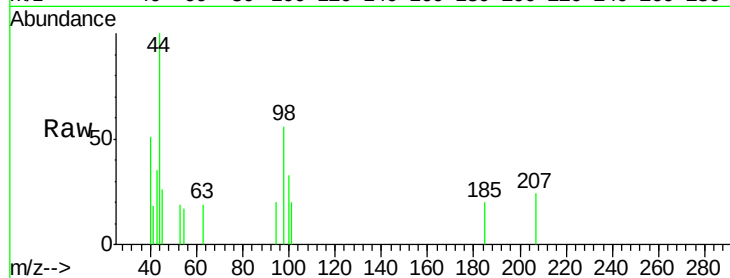
GF-G-3

Tot Ion: 98 Resp: 622

Ion Ratio Lower Upper

98 100

100 59.6 54.6 82.0



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0

7.68

300

200

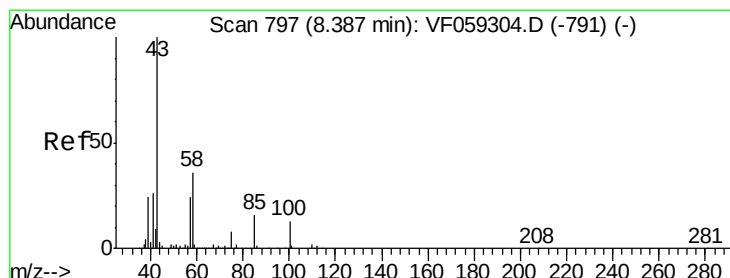
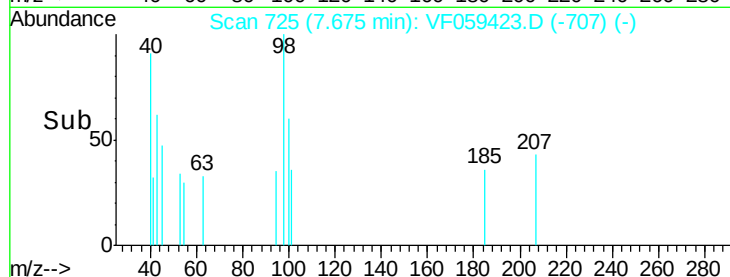
100

0

7.65

7.70

Time-->



#51

4-Methyl-2-Pentanone

Concen: 220.835 ug/l

RT: 8.25 min Scan# 783

Delta R.T. -0.14 min

Lab File: VF059423.D

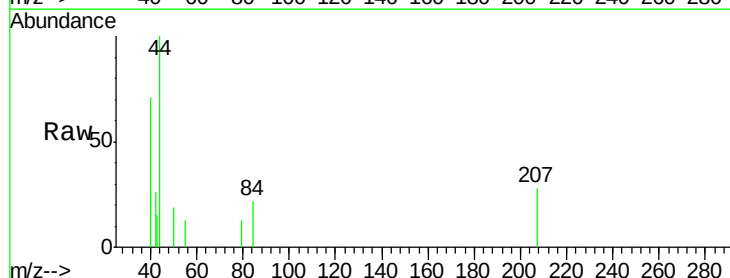
Acq: 3 Jul 2018 20:20

Tgt Ion: 43 Resp: 75

Ion Ratio Lower Upper

43 100

58 0.0 28.4 42.6#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

8.25

150

100

50

0

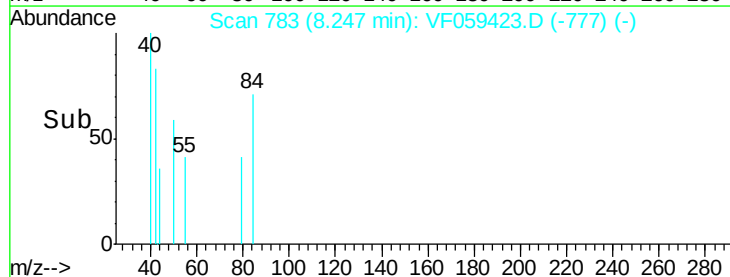
8.22

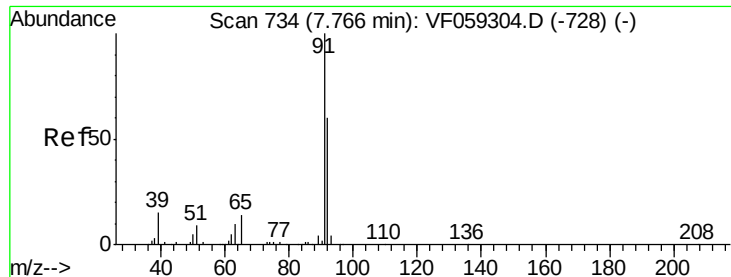
8.24

8.26

8.28

Time-->





#52

Toluene

Concen: 84.329 ug/l

RT: 7.71 min Scan# 729

Delta R.T. -0.05 min

Lab File: VF059423.D

Acq: 3 Jul 2018 20:20

Instrument :

MSVOA_F

ClientSampled :

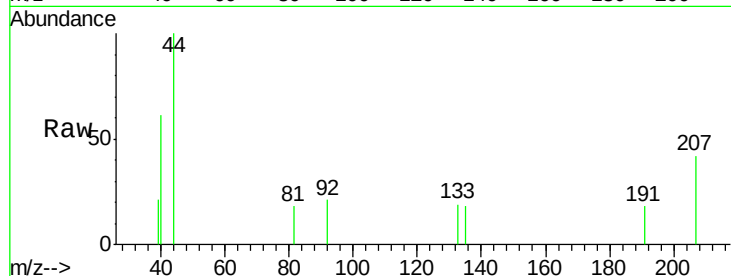
GF-G-3

Tot Ion: 92 Resp: 77

Ion Ratio Lower Upper

92 100

91 0.0 132.8 199.2#



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0

7.71

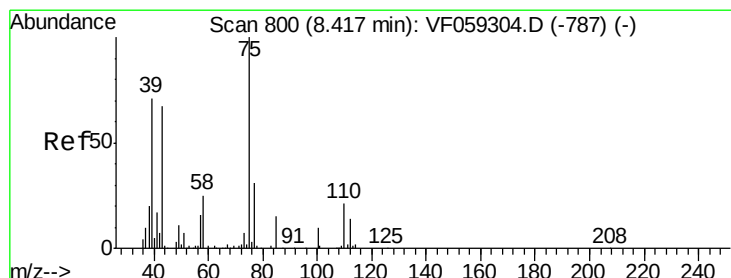
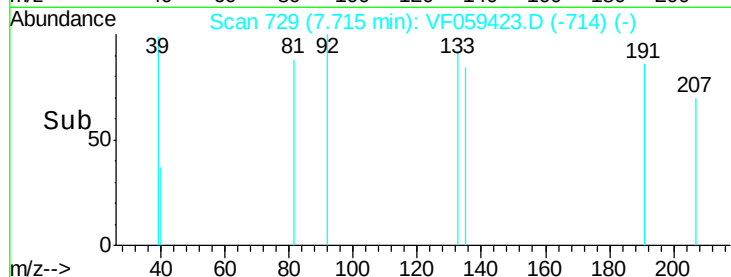
150

100

50

0

Time-->



#53

t-1,3-Dichloropropene

Concen: 94.357 ug/l

RT: 8.40 min Scan# 799

Delta R.T. -0.01 min

Lab File: VF059423.D

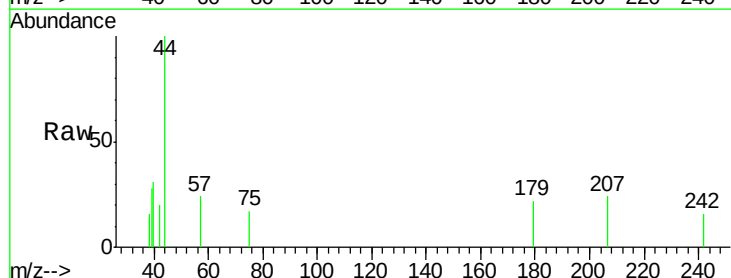
Acq: 3 Jul 2018 20:20

Tgt Ion: 75 Resp: 63

Ion Ratio Lower Upper

75 100

77 0.0 25.3 37.9#



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0

200

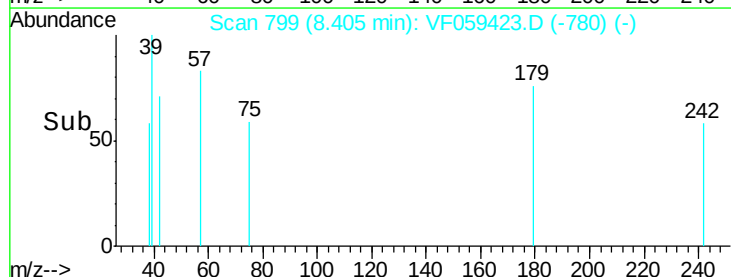
150

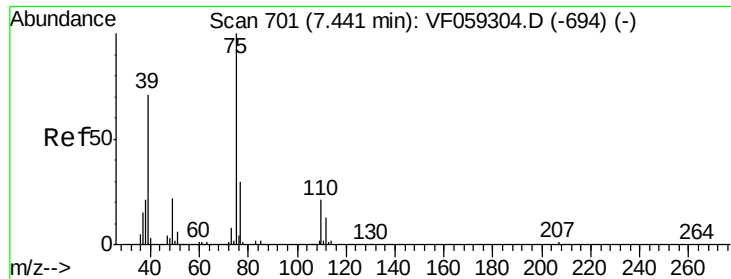
100

50

0

Time-->





#54

cis-1,3-Dichloropropene

Concen: 238.540 ug/l

RT: 7.23 min Scan# 680

Delta R.T. -0.21 min

Lab File: VF059423.D

Acq: 3 Jul 2018 20:20

Instrument :

MSVOA_F

ClientSampled :

GF-G-3

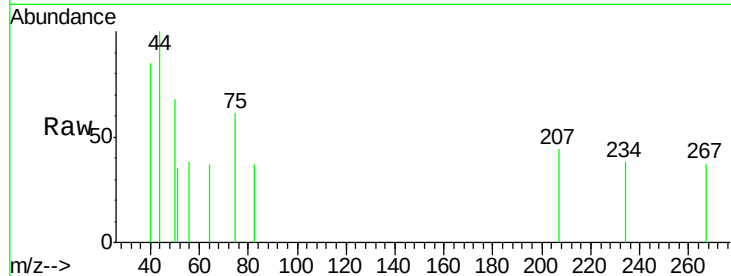
Tot Ion: 75 Resp: 173

Ion Ratio Lower Upper

75 100

77 0.0 24.3 36.5#

39 0.0 57.2 85.8#

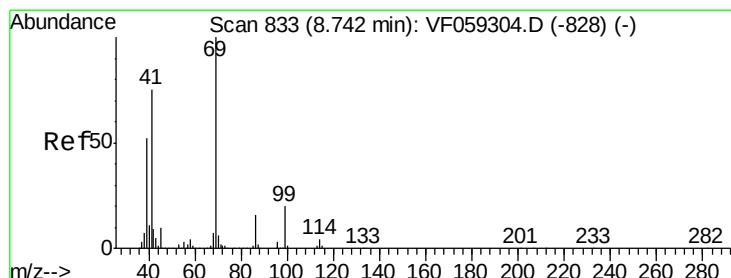
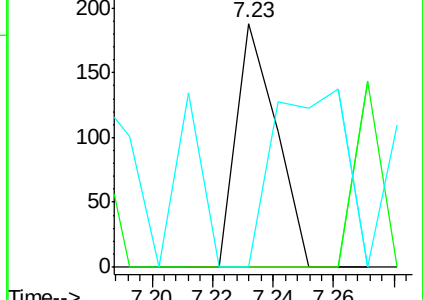
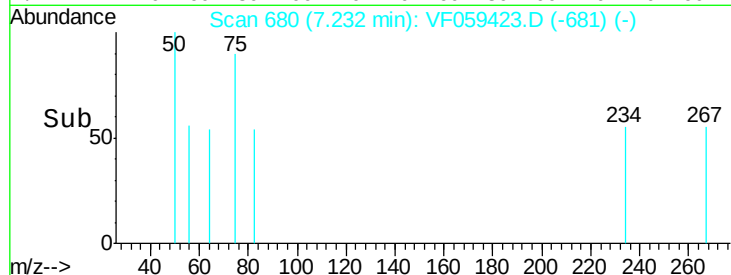


Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

Time-->



#56

Ethyl methacrylate

Concen: 159.391 ug/l

RT: 8.62 min Scan# 821

Delta R.T. -0.12 min

Lab File: VF059423.D

Acq: 3 Jul 2018 20:20

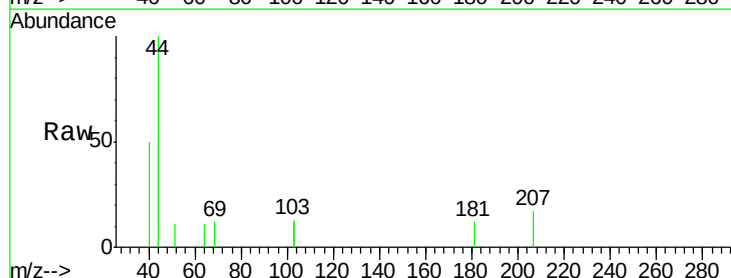
Tgt Ion: 69 Resp: 70

Ion Ratio Lower Upper

69 100

41 0.0 60.3 90.5#

39 0.0 42.2 63.4#

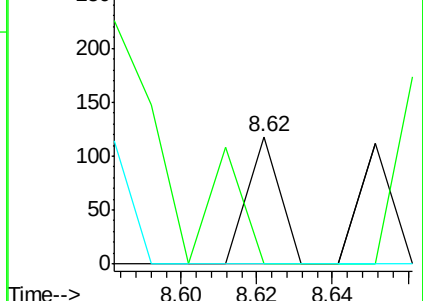
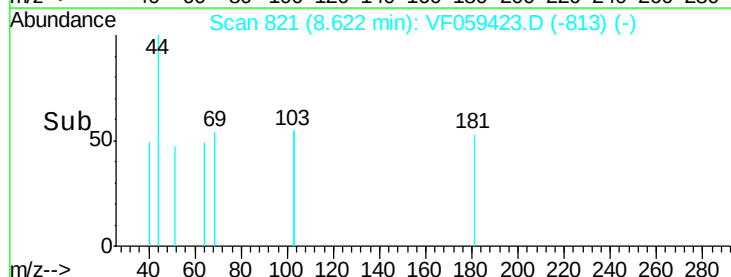


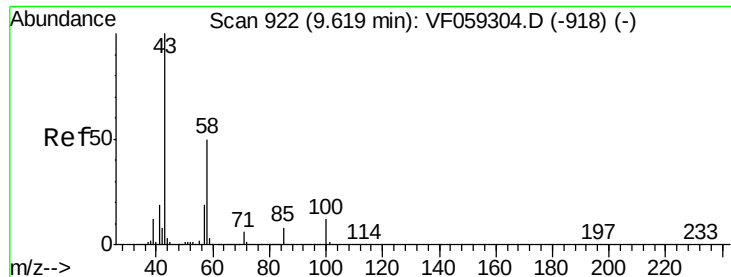
Abundance Ion 69.00 (68.70 to 69.70): VF0

Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

Time-->

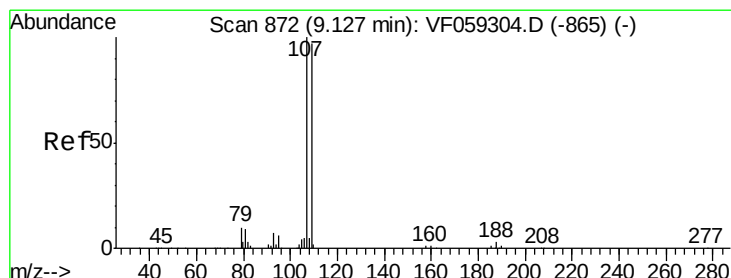
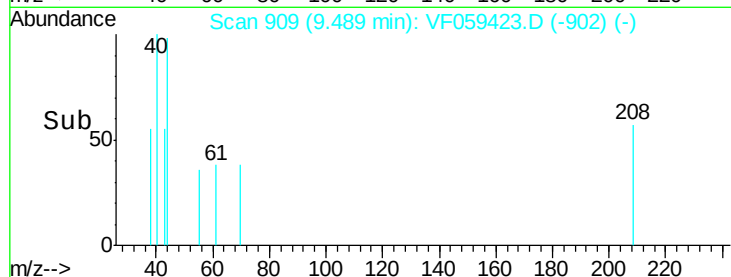
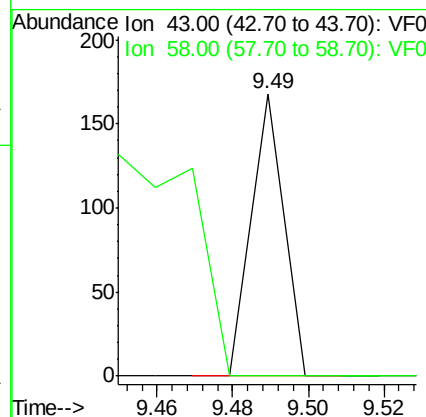
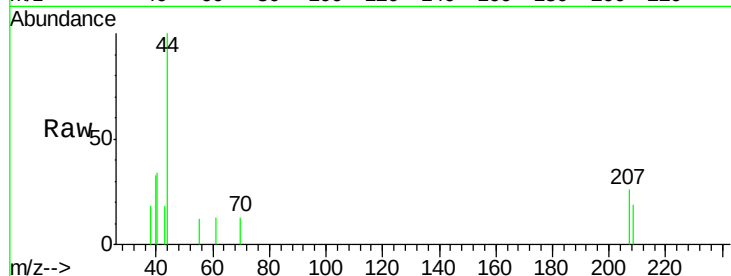




#59
2-Hexanone
Concen: 398.023 ug/l
RT: 9.49 min Scan# 909
Delta R.T. -0.13 min
Lab File: VF059423.D
Acq: 3 Jul 2018 20:20

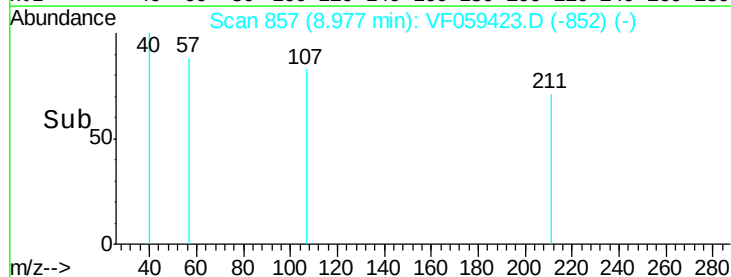
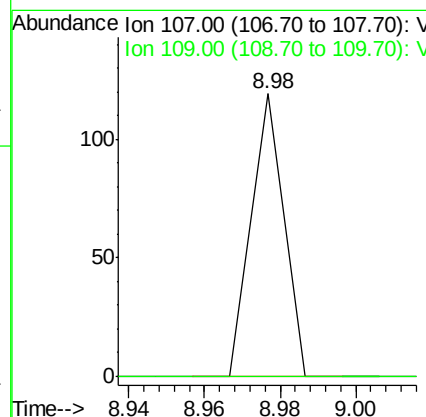
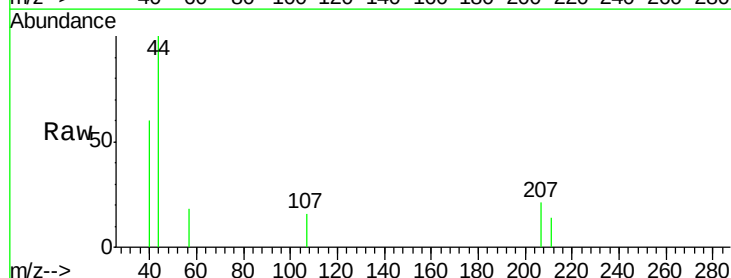
Instrument :
MSVOA_F
ClientSampleId :
GF-G-3

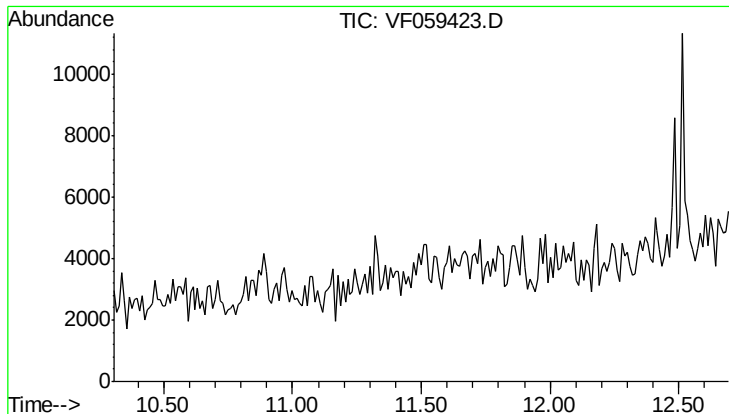
Tot Ion: 43 Resp: 99
Ion Ratio Lower Upper
43 100
58 0.0 23.3 69.9#



#61
1,2-Dibromoethane
Concen: 162.807 ug/l
RT: 8.98 min Scan# 857
Delta R.T. -0.15 min
Lab File: VF059423.D
Acq: 3 Jul 2018 20:20

Tgt Ion: 107 Resp: 70
Ion Ratio Lower Upper
107 100
109 0.0 77.3 115.9#





#62

4-Bromofluorobenzene

Concen: 0.000 ug/l

Expected RT: 11.50 min

Lab File: VF059423.D

Acq: 3 Jul 2018 20:20

Instrument :

MSVOA_F

ClientSampleId :

GF-G-3

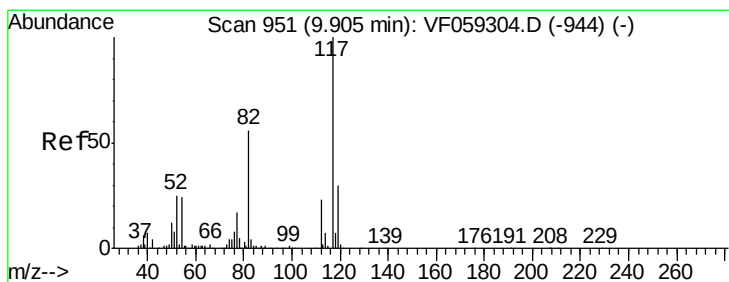
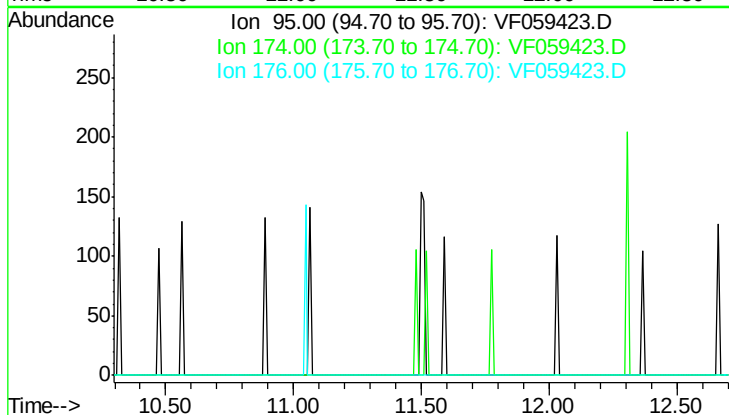
Tot Ion: 95

Sig Exp Ratio

95 100

174 82.6

176 80.5



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.87 min Scan# 948

Delta R.T. -0.03 min

Lab File: VF059423.D

Acq: 3 Jul 2018 20:20

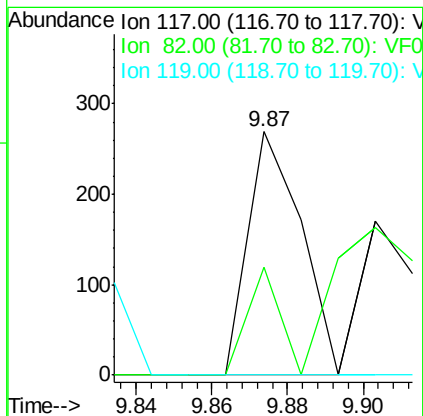
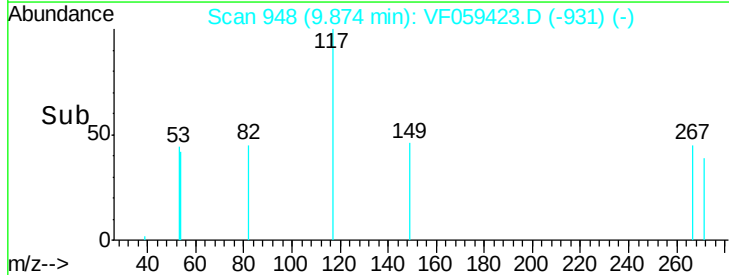
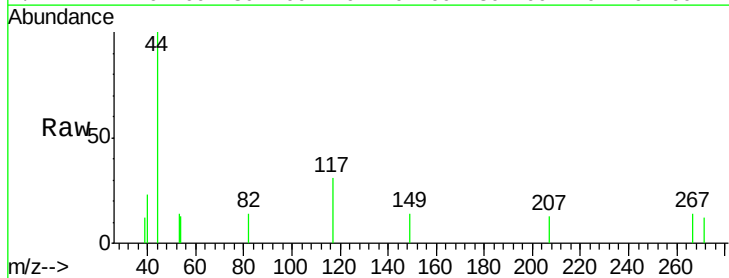
Tgt Ion:117 Resp: 261

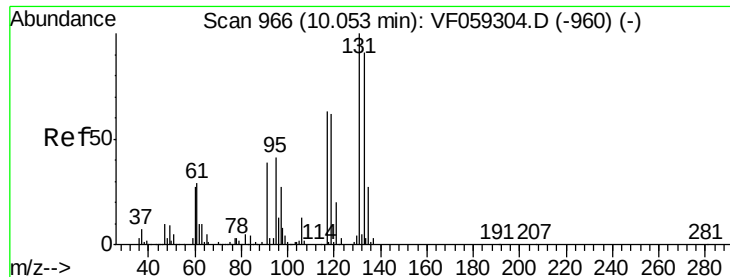
Ion Ratio Lower Upper

117 100

82 44.6 44.6 66.8

119 0.0 24.1 36.1#





#66

1,1,1,2-Tetrachloroethane

Concen: 38.246 ug/l

RT: 10.10 min Scan# 971

Delta R.T. 0.05 min

Lab File: VF059423.D

Acq: 3 Jul 2018 20:20

Instrument :

MSVOA_F

ClientSampled :

GF-G-3

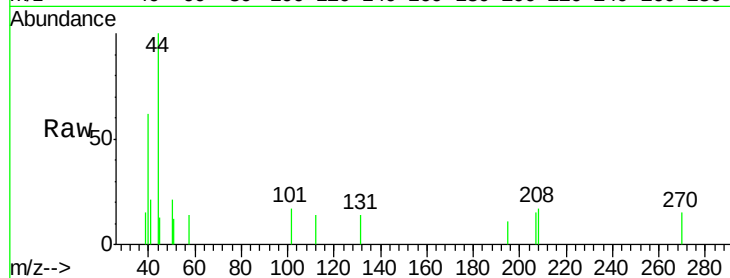
Tot Ion:131 Resp: 80

Ion Ratio Lower Upper

131 100

133 0.0 45.3 135.9#

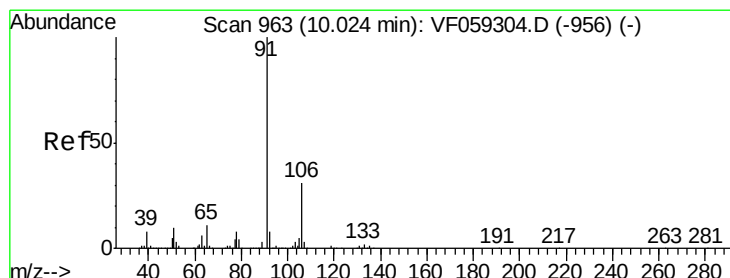
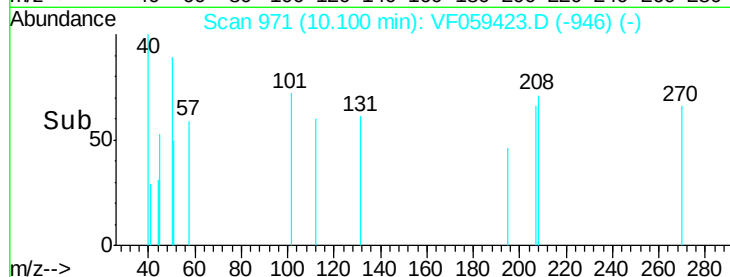
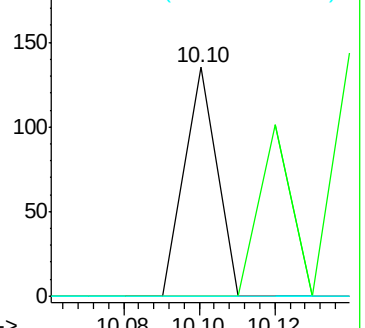
119 0.0 31.3 93.9#



Abundance Ion 131.00 (130.70 to 131.70): V

Ion 133.00 (132.70 to 133.70): V

Ion 119.00 (118.70 to 119.70): V



#67

Ethyl Benzene

Concen: 7.801 ug/l

RT: 10.02 min Scan# 963

Delta R.T. -0.00 min

Lab File: VF059423.D

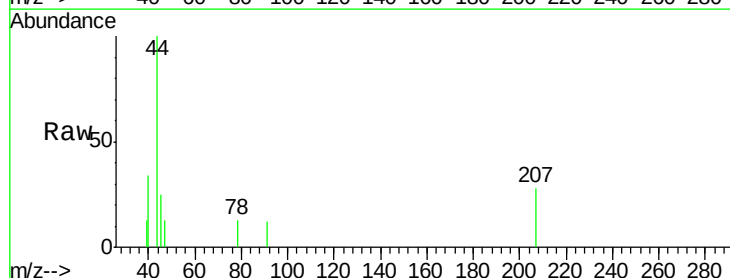
Acq: 3 Jul 2018 20:20

Tgt Ion: 91 Resp: 64

Ion Ratio Lower Upper

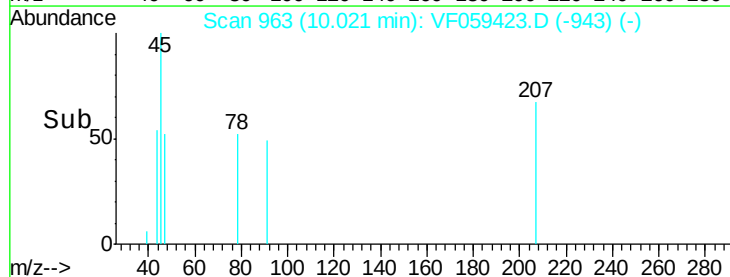
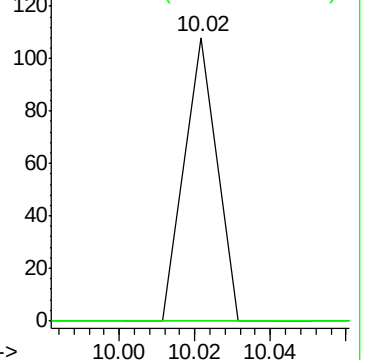
91 100

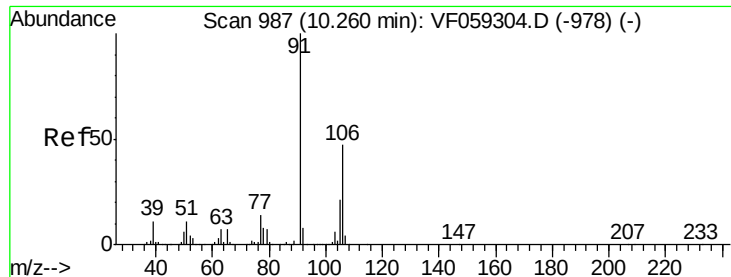
106 0.0 24.8 37.2#



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 106.00 (105.70 to 106.70): V

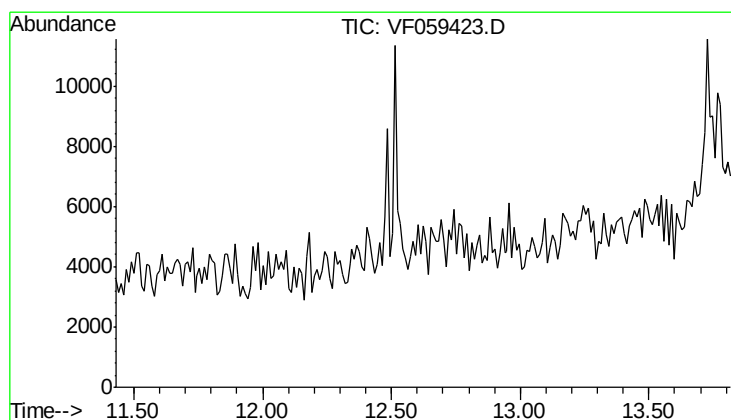
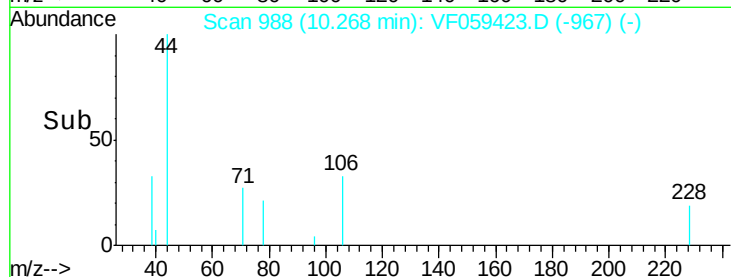
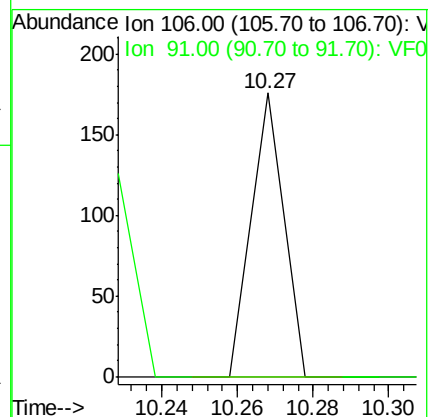
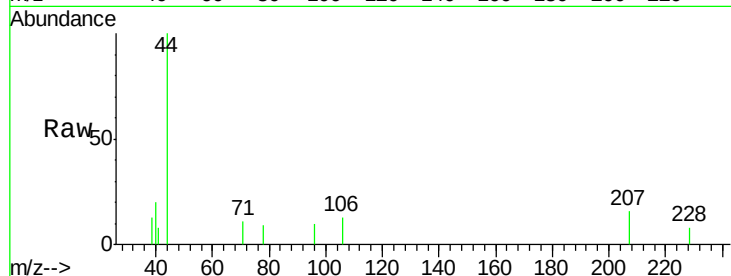




#68
m/p-Xylenes
Concen: 35.614 ug/l
RT: 10.27 min Scan# 988
Delta R.T. 0.01 min
Lab File: VF059423.D
Acq: 3 Jul 2018 20:20

Instrument :
MSVOA_F
ClientSampleId :
GF-G-3

Tot Ion:106 Resp: 104
Ion Ratio Lower Upper
106 100
91 0.0 170.8 256.2#



#72
1,4-Dichlorobenzene-d4
Concen: 0.000 ug/l
Expected RT: 12.63 min

Lab File: VF059423.D
Acq: 3 Jul 2018 20:20

Tgt Ion: 152
Sig Exp Ratio
152 100
115 54.2
150 152.6

