

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_F\DATA\VF070318\
 Data File : VF059422.D
 Acq On : 3 Jul 2018 19:53
 Operator : VA/AP
 Sample : J3845-06
 Misc : 5.09g/5mL/MSVOA-F/SOIL
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 GF-G-2

Quant Time: Jul 04 00:13:56 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	5.01	168	4216	50.00	ug/l	-0.01
34) 1,4-Difluorobenzene	5.72	114	4276	50.00	ug/l	-0.03
63) Chlorobenzene-d5	9.88	117	3239	50.00	ug/l	-0.02
72) 1,4-Dichlorobenzene-d4	12.61	152	1068	50.00	ug/l	-0.01

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.98	65	1169	21.46	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	42.92%	
35) Dibromofluoromethane	4.26	113	1175	37.61	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	75.22%	
50) Toluene-d8	7.68	98	4269	55.19	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	110.38%	
62) 4-Bromofluorobenzene	11.42	95	137	3.14	ug/l	-0.08
Spiked Amount	50.000		Recovery	=	6.28%	

Target Compounds						Qvalue
3) Chloromethane	1.09	50	151	5.835	ug/l #	41
5) Bromomethane	1.33	94	109	1.513	ug/l #	4
6) Chloroethane	1.53	64	67	5.222	ug/l #	45
10) Methyl Iodide	2.10	142	105	1.958	ug/l #	26
11) Tert butyl alcohol	2.68	59	155	42.744	ug/l #	66
12) 1,1-Dichloroethene	1.79	96	93	3.742	ug/l #	1
13) Acrolein	2.03	56	88	34.205	ug/l #	10
14) Allyl chloride	2.19	41	149	3.193	ug/l #	1
15) Acrylonitrile	3.03	53	86	13.467	ug/l #	9
16) Acetone	2.31	43	107	Below Cal	#	65
18) Methyl Acetate	2.46	43	575	22.754	ug/l #	61
19) Methyl tert-butyl Ether	2.55	73	168	1.812	ug/l #	63
20) Methylene Chloride	2.27	84	144	Below Cal	#	1
21) trans-1,2-Dichloroethene	2.41	96	60	2.263	ug/l #	1
23) Vinyl Acetate	3.33	43	122	1.854	ug/l #	79
24) 1,1-Dichloroethane	2.92	63	70	1.093	ug/l #	90
25) 2-Butanone	4.44	43	160	7.040	ug/l #	59
26) 2,2-Dichloropropane	3.72	77	109	2.467	ug/l #	62
27) cis-1,2-Dichloroethene	3.58	96	60	1.490	ug/l	1
28) Bromochloromethane	3.79	49	60	Below Cal	#	6
29) Tetrahydrofuran	4.24	42	137	11.089	ug/l #	36
36) 1,1-Dichloropropene	4.27	75	62	1.660	ug/l #	44
37) Ethyl Acetate	4.27	43	83	2.054	ug/l #	26
39) Methylcyclohexane	5.50	83	69	2.084	ug/l #	15
40) Benzene	4.78	78	85	1.026	ug/l #	51
41) Methacrylonitrile	4.91	41	80	6.278	ug/l #	1
42) 1,2-Dichloroethane	5.18	62	66	1.364	ug/l	83
43) Isopropyl Acetate	7.11	43	96	3.085	ug/l #	52
45) 1,2-Dichloropropane	6.25	63	61	2.578	ug/l #	43
46) Dibromomethane	6.08	93	111	5.405	ug/l #	4
47) Bromodichloromethane	6.48	83	76	1.529	ug/l #	26
48) Methyl methacrylate	6.81	41	286	13.715	ug/l #	11
49) 1,4-Dioxane	6.87	88	70	612.646	ug/l #	48
51) 4-Methyl-2-Pentanone	8.31	43	138	5.987	ug/l #	39

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

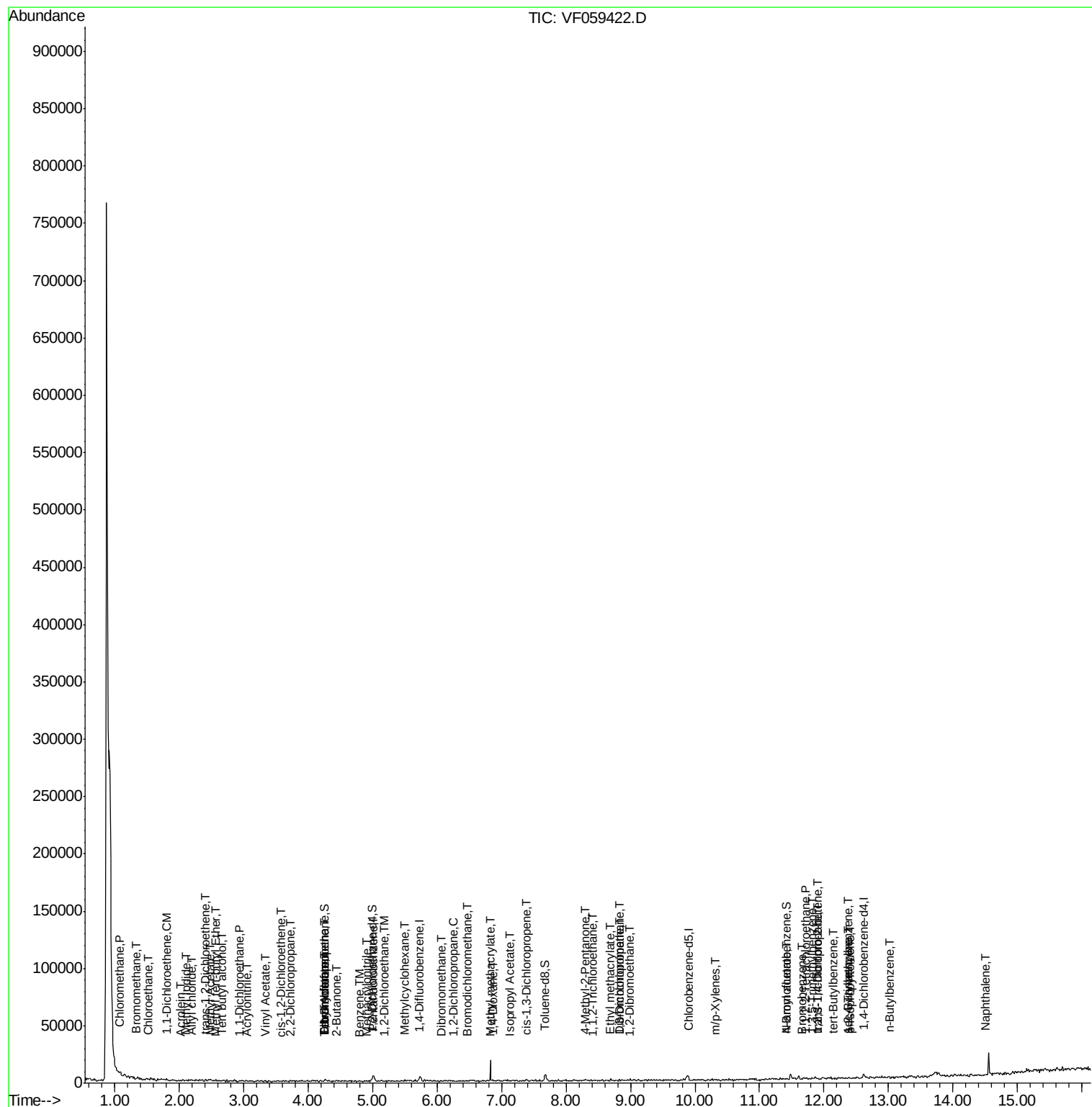
54) cis-1,3-Dichloropropene	7.40	75	64	1.300	ug/l #	23
55) 1,1,2-Trichloroethane	8.41	97	61	2.535	ug/l #	13
56) Ethyl methacrylate	8.69	69	71	2.382	ug/l #	17
57) 1,3-Dichloropropane	8.83	76	62	1.502	ug/l #	44
59) 2-Hexanone	9.56	43	96	Below Cal	#	30
60) Dibromochloromethane	8.82	129	132	3.553	ug/l #	9
61) 1,2-Dibromoethane	8.98	107	73	2.502	ug/l #	1
68) m/p-Xylenes	10.30	106	89	2.456	ug/l #	1
74) N-amyl acetate	11.43	43	176	7.795	ug/l #	32
75) 1,1,2,2-Tetrachloroethane	11.73	83	79	5.027	ug/l #	24
76) 1,2,3-Trichloropropane	11.89	75	136	11.474	ug/l #	39
77) Bromobenzene	11.65	156	65	3.765	ug/l #	1
80) 1,3,5-Trimethylbenzene	11.81	105	77	1.413	ug/l #	28
81) trans-1,4-Dichloro-2-buten	11.89	75	136	19.278	ug/l #	14
83) tert-Butylbenzene	12.14	119	76	1.394	ug/l #	31
84) 1,2,4-Trimethylbenzene	12.37	105	126	2.195	ug/l #	31
85) sec-Butylbenzene	12.37	105	126	1.744	ug/l #	58
86) p-Isopropyltoluene	12.42	119	88	1.451	ug/l #	50
89) n-Butylbenzene	13.01	91	62	1.007	ug/l #	29
95) Naphthalene	14.50	128	64	1.320	ug/l #	1

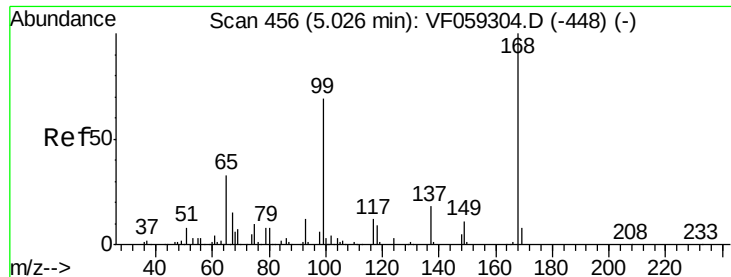
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.01 min Scan# 455

Delta R.T. -0.01 min

Lab File: VF059422.D

Acq: 3 Jul 2018 19:53

Instrument :

MSVOA_F

ClientSampled :

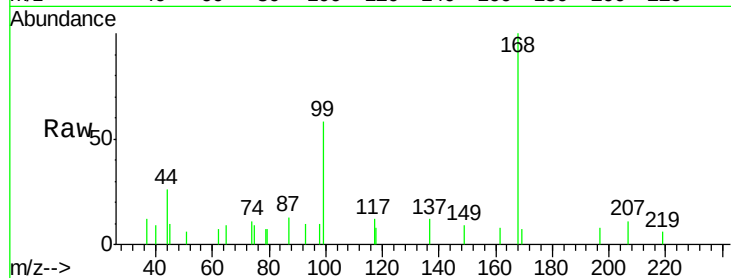
GF-G-2

Tgt Ion: 168 Resp: 4216

Ion Ratio Lower Upper

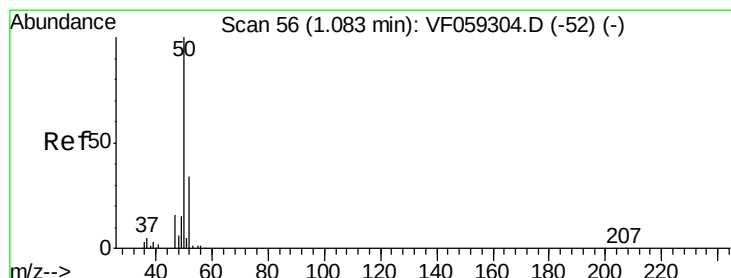
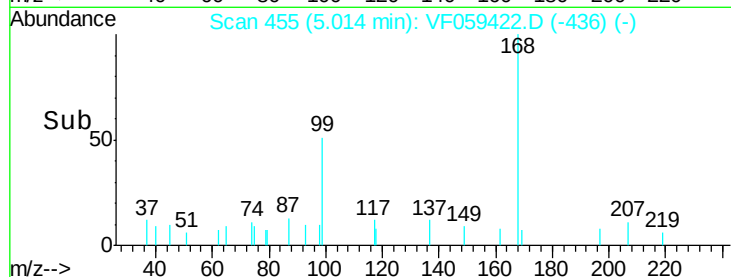
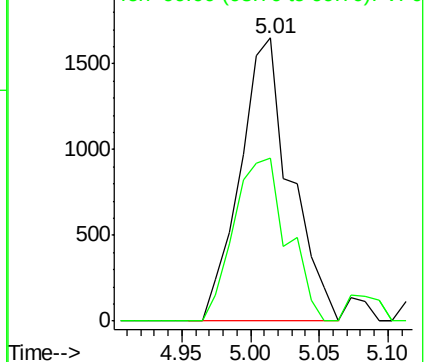
168 100

99 57.8 54.9 82.3



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0



#3

Chloromethane

Concen: 5.835 ug/l

RT: 1.09 min Scan# 57

Delta R.T. 0.01 min

Lab File: VF059422.D

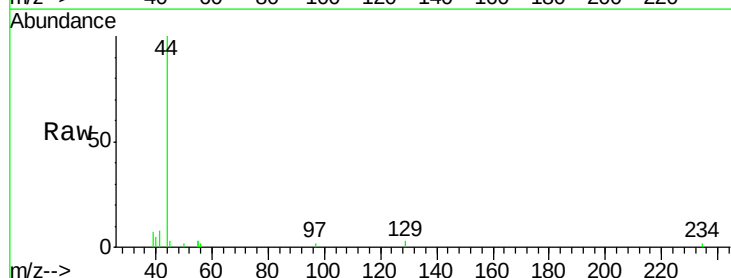
Acq: 3 Jul 2018 19:53

Tgt Ion: 50 Resp: 151

Ion Ratio Lower Upper

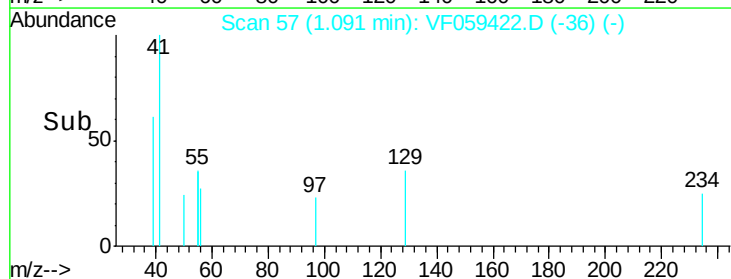
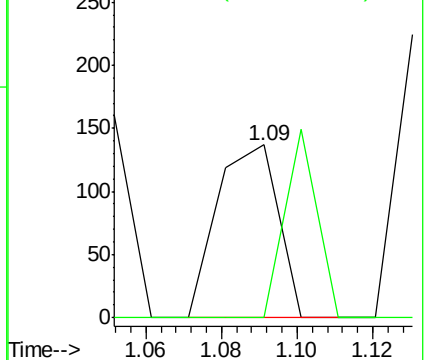
50 100

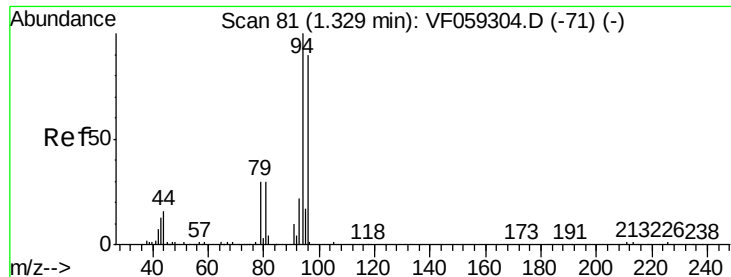
52 0.0 26.7 40.1#



Abundance Ion 50.00 (49.70 to 50.70): VF0

Ion 52.00 (51.70 to 52.70): VF0





#5

Bromomethane

Concen: 1.513 ug/l

RT: 1.33 min Scan# 81

Delta R.T. -0.00 min

Lab File: VF059422.D

Acq: 3 Jul 2018 19:53

Instrument :

MSVOA_F

ClientSampled :

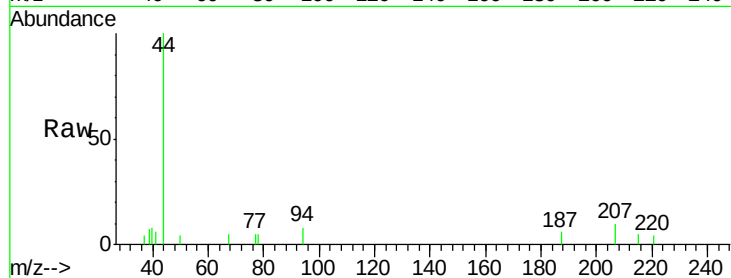
GF-G-2

Tgt Ion: 94 Resp: 109

Ion Ratio Lower Upper

94 100

96 0.0 73.4 110.0#



Abundance Ion 94.00 (93.70 to 94.70): VF0

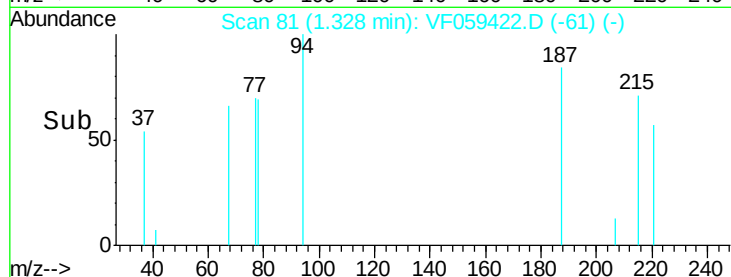
Ion 96.00 (95.70 to 96.70): VF0

1.33

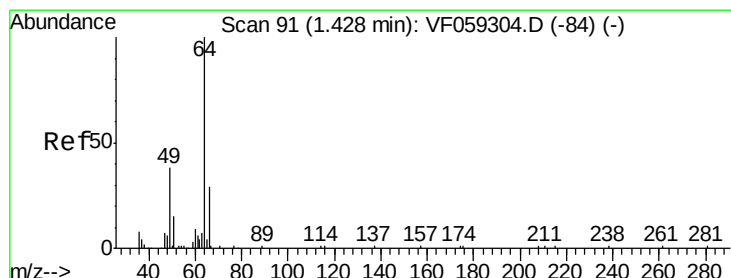
1.32

1.34

1.36



Time-->



#6

Chloroethane

Concen: 5.222 ug/l

RT: 1.53 min Scan# 102

Delta R.T. 0.11 min

Lab File: VF059422.D

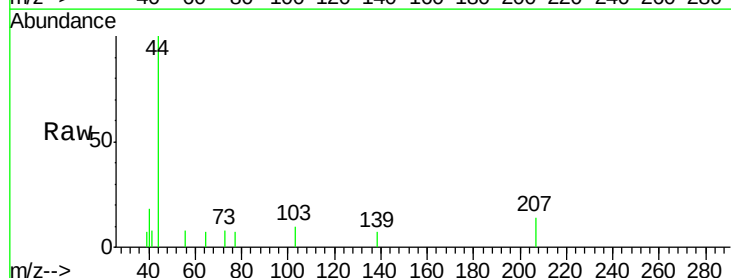
Acq: 3 Jul 2018 19:53

Tgt Ion: 64 Resp: 67

Ion Ratio Lower Upper

64 100

66 0.0 23.9 35.9#



Abundance Ion 64.00 (63.70 to 64.70): VF0

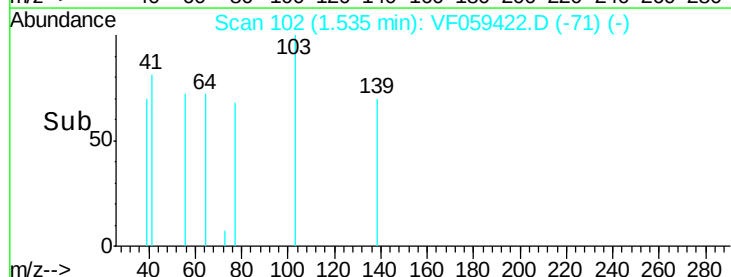
Ion 66.00 (65.70 to 66.70): VF0

1.53

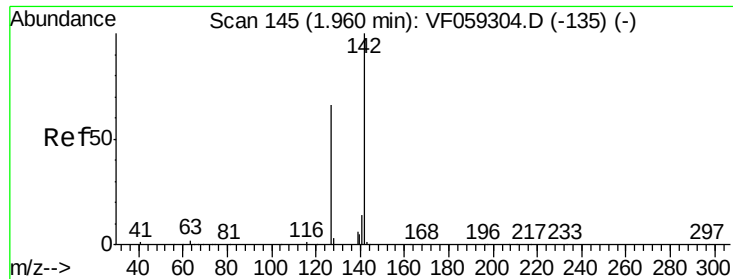
1.52

1.54

1.56



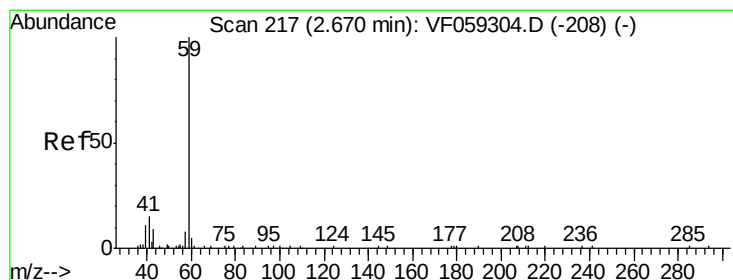
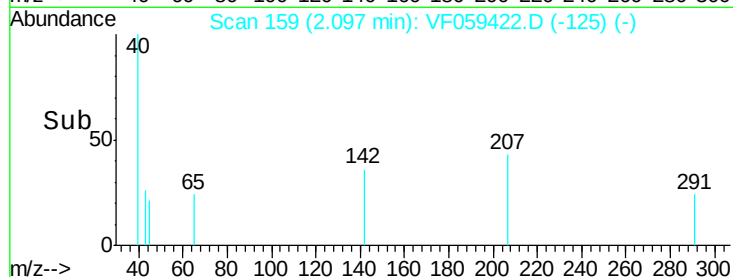
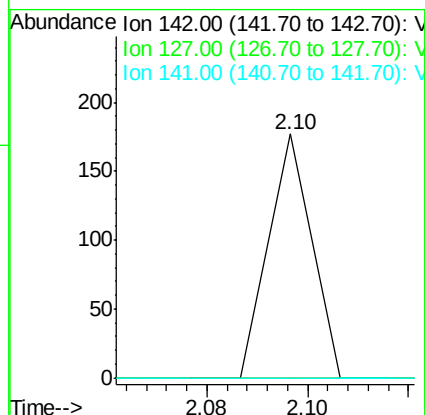
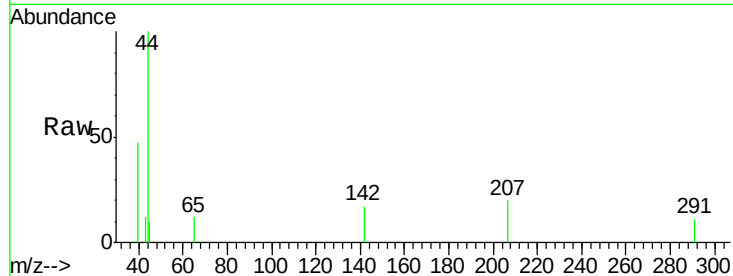
Time-->



#10
Methyl Iodide
Concen: 1.958 ug/l
RT: 2.10 min Scan# 159
Delta R.T. 0.14 min
Lab File: VF059422.D
Acq: 3 Jul 2018 19:53

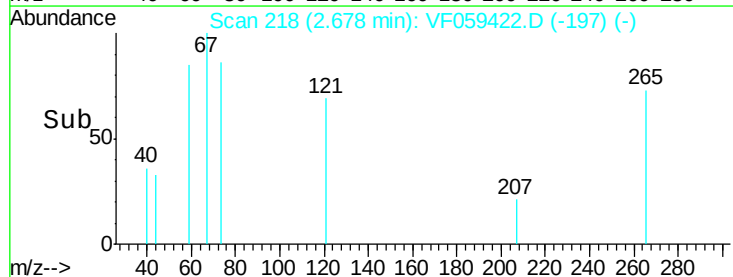
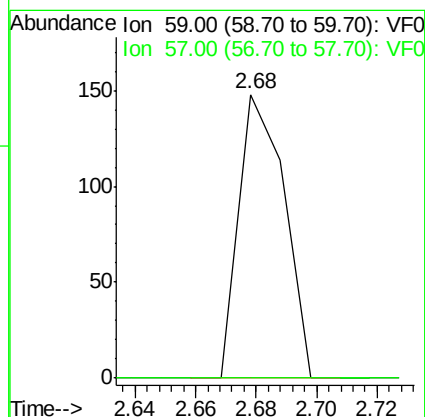
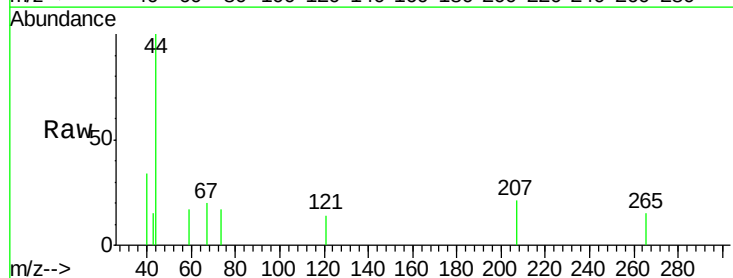
Instrument :
MSVOA_F
ClientSampled :
GF-G-2

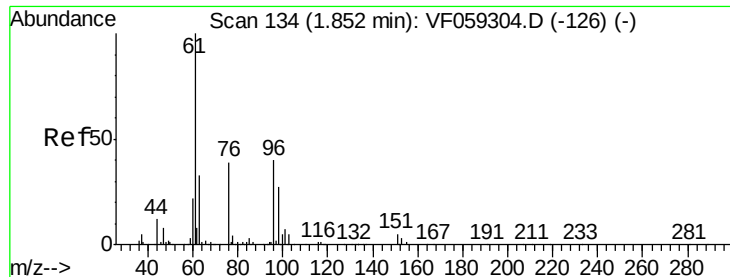
Tgt Ion: 142 Resp: 105
Ion Ratio Lower Upper
142 100
127 0.0 52.5 78.7#
141 0.0 11.5 17.3#



#11
Tert butyl alcohol
Concen: 42.744 ug/l
RT: 2.68 min Scan# 218
Delta R.T. 0.01 min
Lab File: VF059422.D
Acq: 3 Jul 2018 19:53

Tgt Ion: 59 Resp: 155
Ion Ratio Lower Upper
59 100
57 0.0 11.0 16.4#





#12

1,1-Dichloroethene

Concen: 3.742 ug/l

RT: 1.79 min Scan# 128

Delta R.T. -0.06 min

Lab File: VF059422.D

Acq: 3 Jul 2018 19:53

Instrument :

MSVOA_F

ClientSampled :

GF-G-2

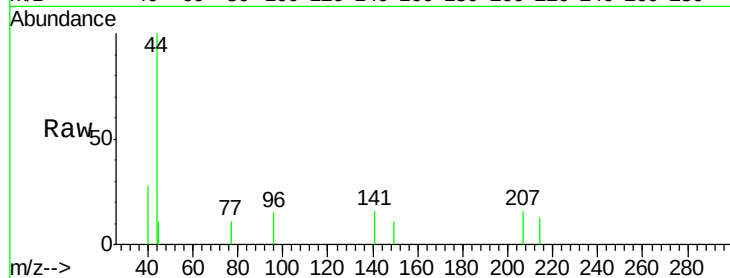
Tgt Ion: 96 Resp: 93

Ion Ratio Lower Upper

96 100

61 0.0 201.1 301.7#

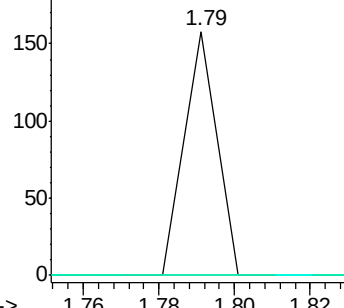
98 0.0 53.9 80.9#



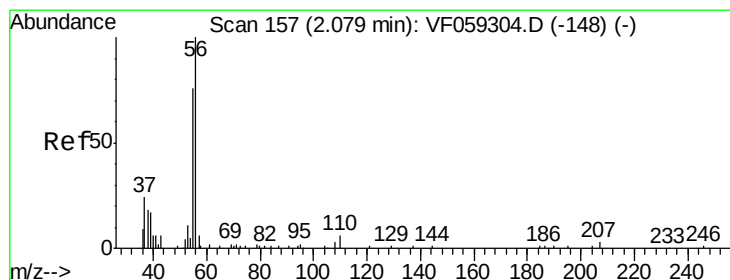
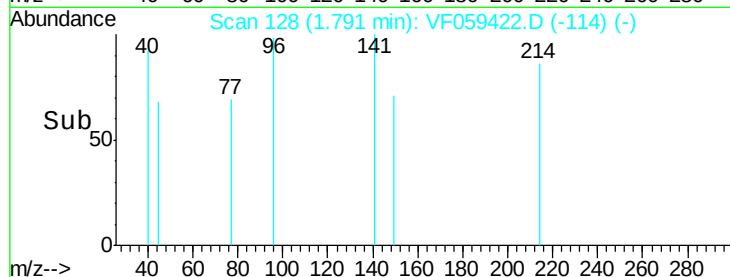
Abundance Ion 96.00 (95.70 to 96.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 98.00 (97.70 to 98.70): VF0



Time-->



#13

Acrolein

Concen: 34.205 ug/l

RT: 2.03 min Scan# 152

Delta R.T. -0.05 min

Lab File: VF059422.D

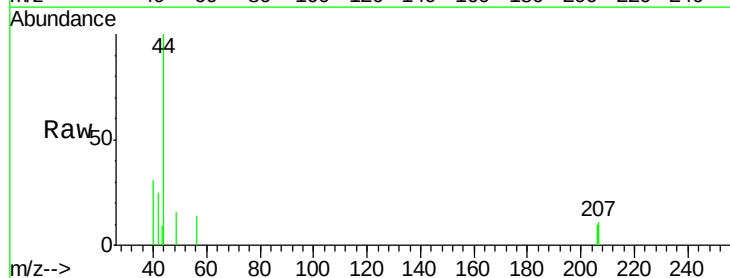
Acq: 3 Jul 2018 19:53

Tgt Ion: 56 Resp: 88

Ion Ratio Lower Upper

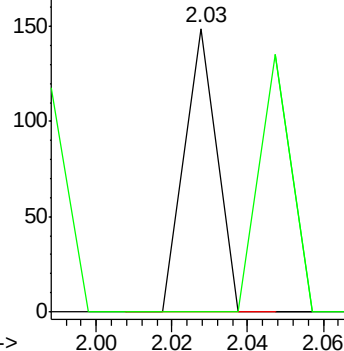
56 100

55 0.0 62.4 93.6#

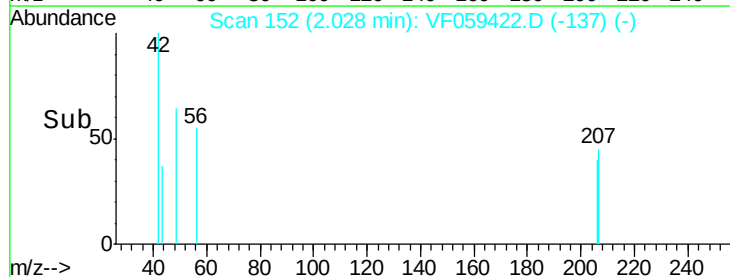


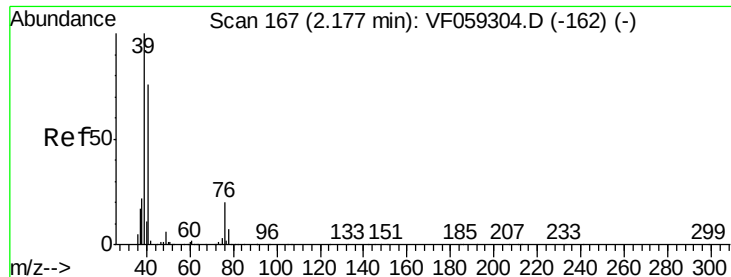
Abundance Ion 56.00 (55.70 to 56.70): VF0

Ion 55.00 (54.70 to 55.70): VF0



Time-->

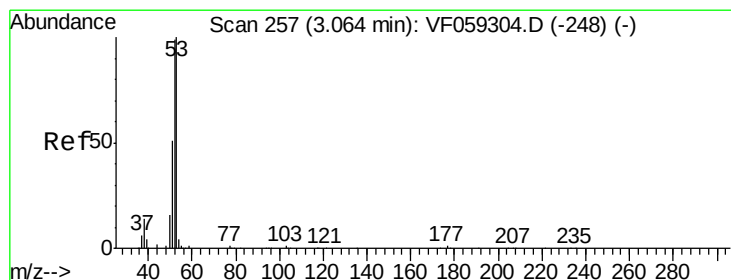
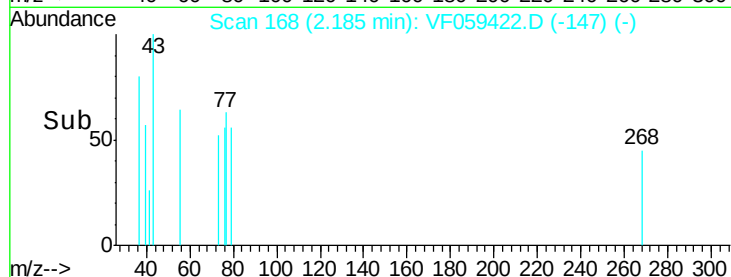
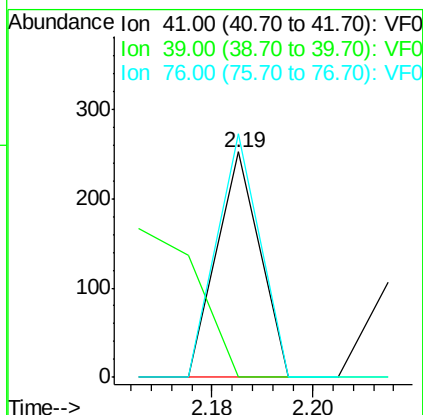
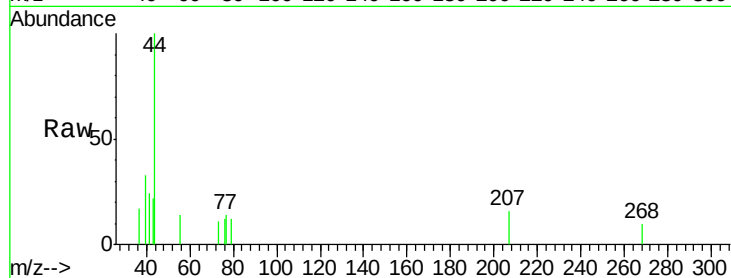




#14
 Allyl chloride
 Concen: 3.193 ug/l
 RT: 2.19 min Scan# 168
 Delta R.T. 0.01 min
 Lab File: VF059422.D
 Acq: 3 Jul 2018 19:53

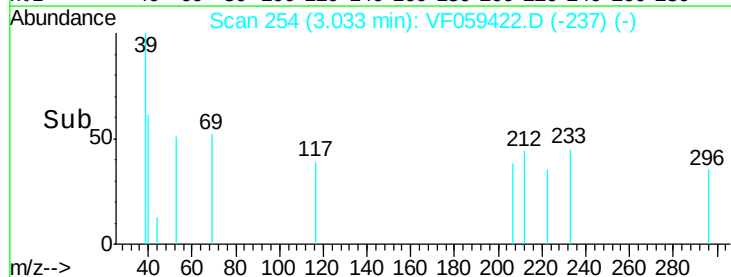
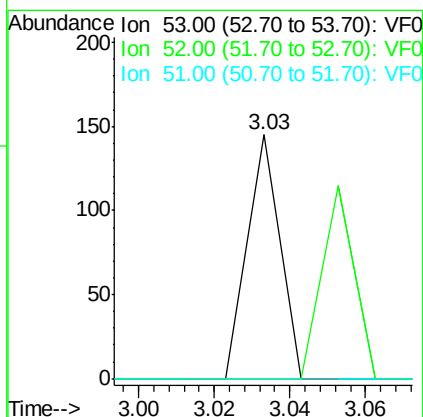
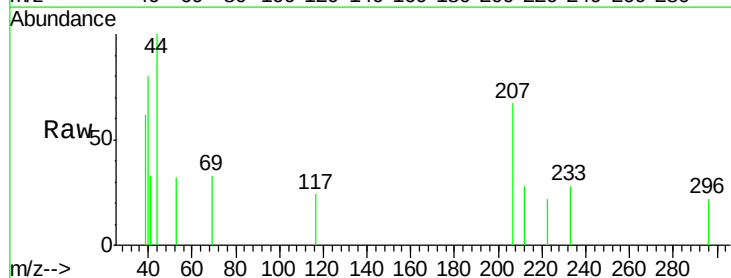
Instrument :
 MSVOA_F
 ClientSampleId :
 GF-G-2

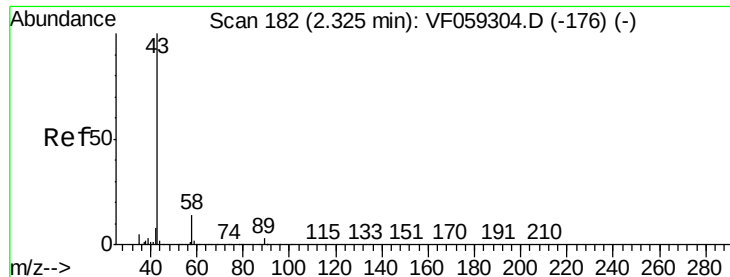
Tgt Ion: 41 Resp: 149
 Ion Ratio Lower Upper
 41 100
 39 0.0 105.6 158.4#
 76 107.9 21.6 32.4#



#15
 Acrylonitrile
 Concen: 13.467 ug/l
 RT: 3.03 min Scan# 254
 Delta R.T. -0.03 min
 Lab File: VF059422.D
 Acq: 3 Jul 2018 19:53

Tgt Ion: 53 Resp: 86
 Ion Ratio Lower Upper
 53 100
 52 0.0 79.2 118.8#
 51 0.0 40.9 61.3#





#16

Acetone

Concen: Below Cal

RT: 2.31 min Scan# 181

Delta R.T. -0.01 min

Lab File: VF059422.D

Acq: 3 Jul 2018 19:53

Instrument :

MSVOA_F

ClientSampled :

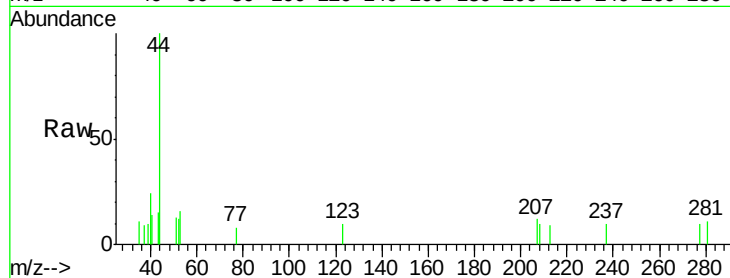
GF-G-2

Tgt Ion: 43 Resp: 107

Ion Ratio Lower Upper

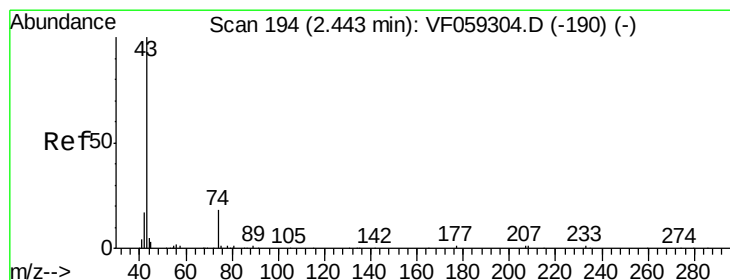
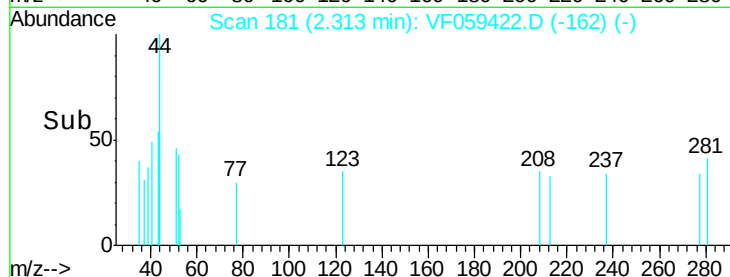
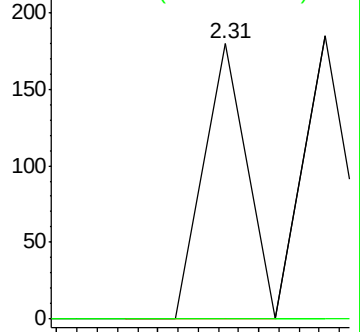
43 100

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



#18

Methyl Acetate

Concen: 22.754 ug/l

RT: 2.46 min Scan# 196

Delta R.T. 0.02 min

Lab File: VF059422.D

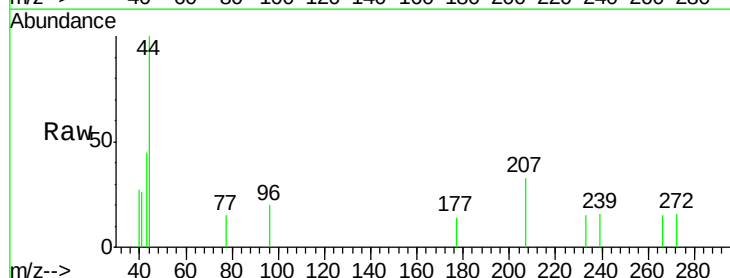
Acq: 3 Jul 2018 19:53

Tgt Ion: 43 Resp: 575

Ion Ratio Lower Upper

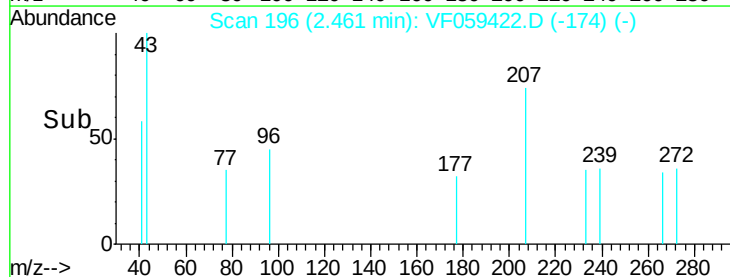
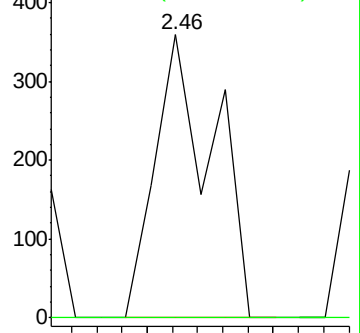
43 100

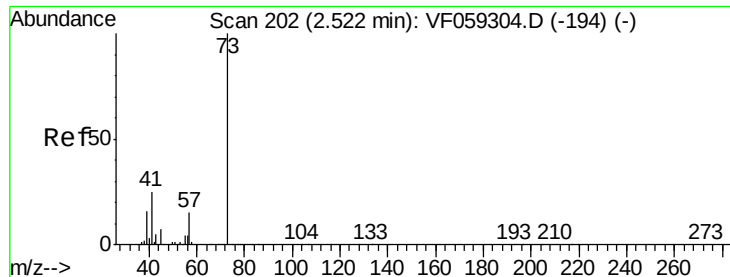
74 0.0 13.3 19.9#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 74.00 (73.70 to 74.70): VF0



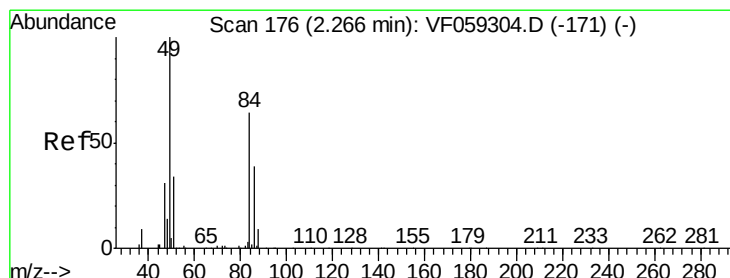
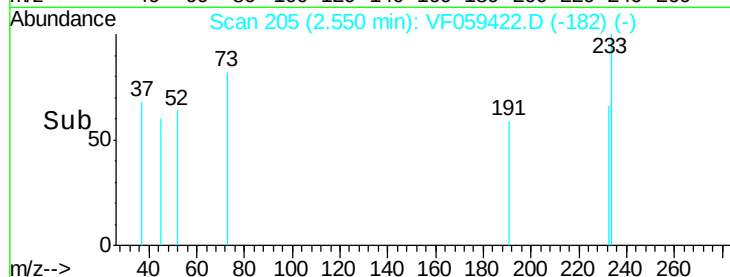
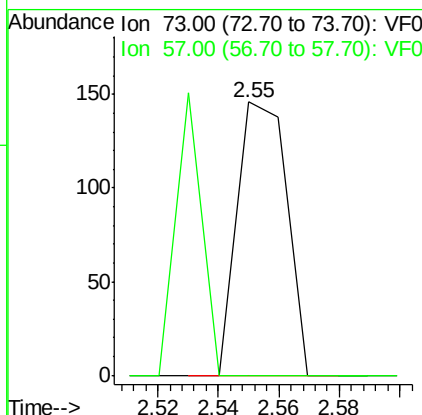
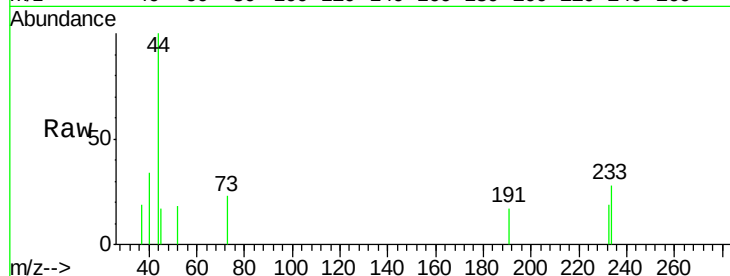


#19

Methyl tert-butyl Ether
 Concen: 1.812 ug/l
 RT: 2.55 min Scan# 205
 Delta R.T. 0.03 min
 Lab File: VF059422.D
 Acq: 3 Jul 2018 19:53

Instrument :
 MSVOA_F
 ClientSampleId :
 GF-G-2

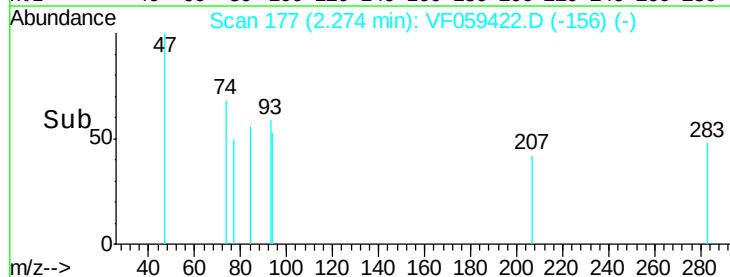
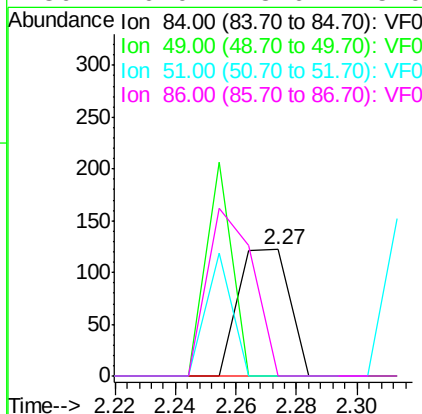
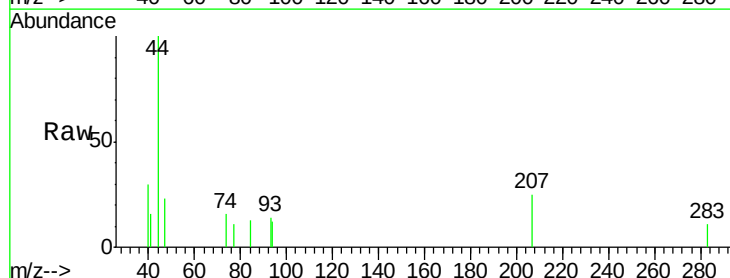
Tgt Ion: 73 Resp: 168
 Ion Ratio Lower Upper
 73 100
 57 0.0 12.3 18.5#

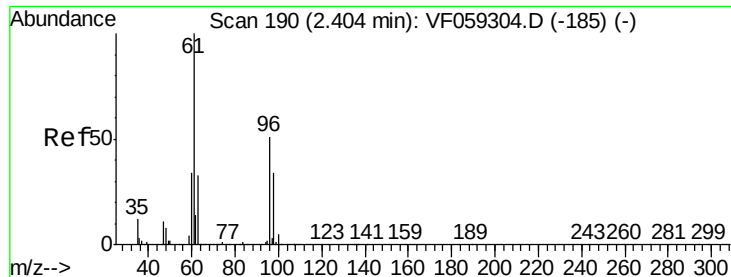


#20

Methylene Chloride
 Concen: Below Cal
 RT: 2.27 min Scan# 177
 Delta R.T. 0.01 min
 Lab File: VF059422.D
 Acq: 3 Jul 2018 19:53

Tgt Ion: 84 Resp: 144
 Ion Ratio Lower Upper
 84 100
 49 0.0 126.5 189.7#
 51 0.0 42.9 64.3#
 86 0.0 48.6 73.0#





#21

trans-1,2-Dichloroethene

Concen: 2.263 ug/l

RT: 2.41 min Scan# 191

Delta R.T. 0.01 min

Lab File: VF059422.D

Acq: 3 Jul 2018 19:53

Instrument :

MSVOA_F

ClientSampled :

GF-G-2

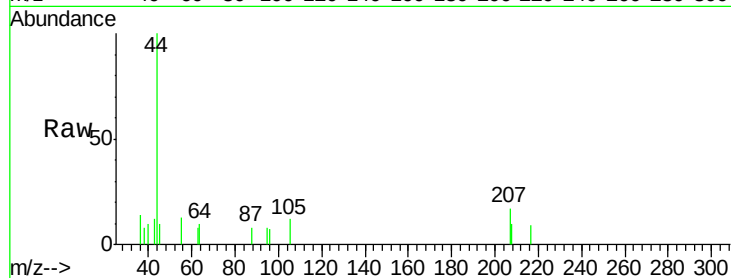
Tgt Ion: 96 Resp: 60

Ion Ratio Lower Upper

96 100

61 0.0 157.4 236.2#

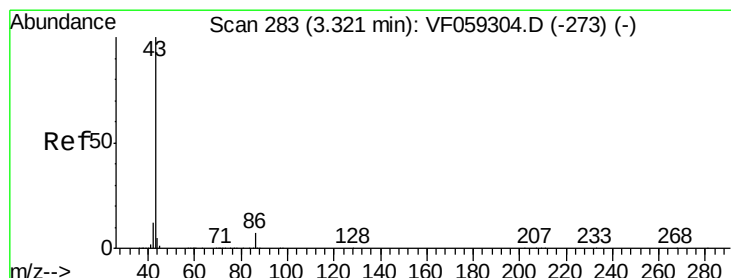
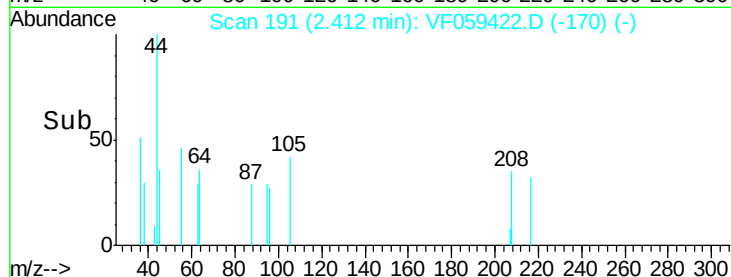
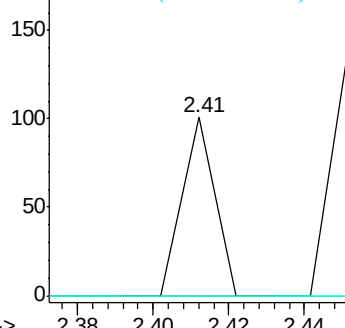
98 0.0 53.7 80.5#



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



#23

Vinyl Acetate

Concen: 1.854 ug/l

RT: 3.33 min Scan# 284

Delta R.T. 0.01 min

Lab File: VF059422.D

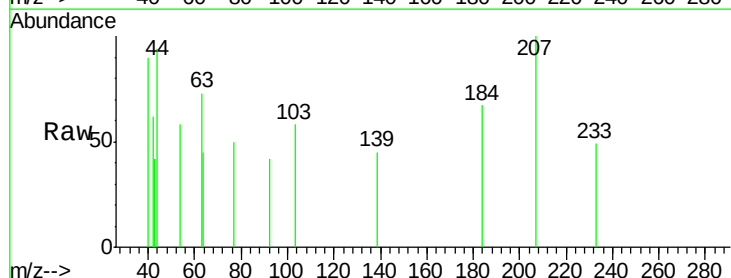
Acq: 3 Jul 2018 19:53

Tgt Ion: 43 Resp: 122

Ion Ratio Lower Upper

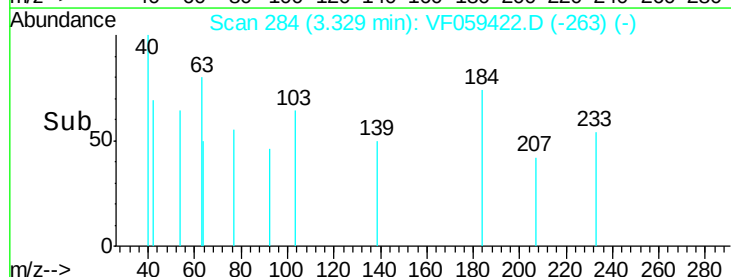
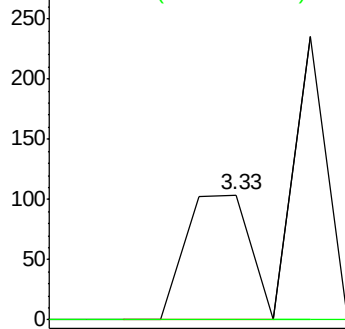
43 100

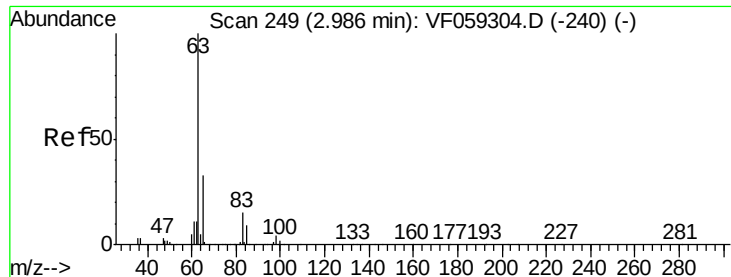
86 0.0 5.8 8.6#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 86.00 (85.70 to 86.70): VF0





#24

1,1-Dichloroethane

Concen: 1.093 ug/l

RT: 2.92 min Scan# 243

Delta R.T. -0.06 min

Lab File: VF059422.D

Acq: 3 Jul 2018 19:53

Instrument :

MSVOA_F

ClientSampled :

GF-G-2

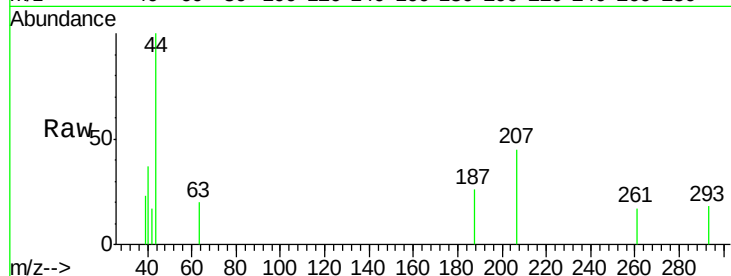
Tgt Ion: 63 Resp: 70

Ion Ratio Lower Upper

63 100

98 0.0 2.0 6.0#

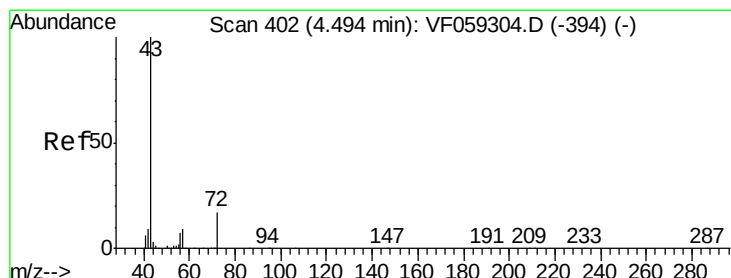
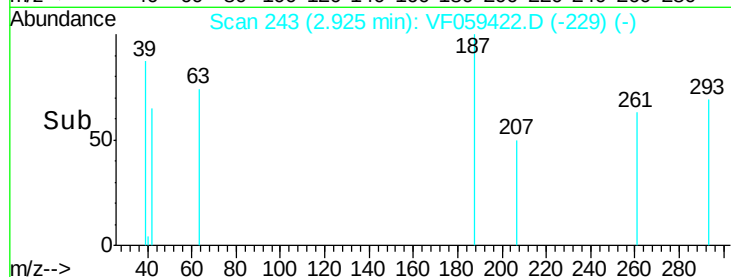
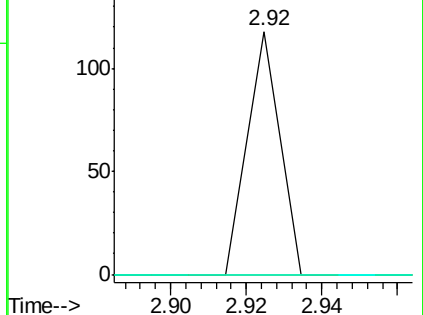
100 0.0 1.3 3.9#



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0



#25

2-Butanone

Concen: 7.040 ug/l

RT: 4.44 min Scan# 397

Delta R.T. -0.05 min

Lab File: VF059422.D

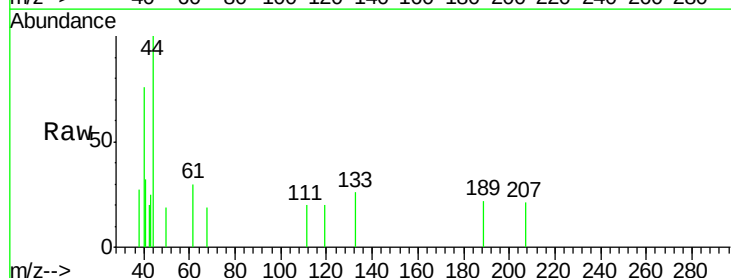
Acq: 3 Jul 2018 19:53

Tgt Ion: 43 Resp: 160

Ion Ratio Lower Upper

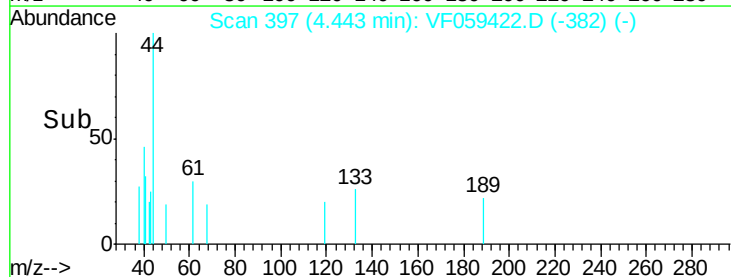
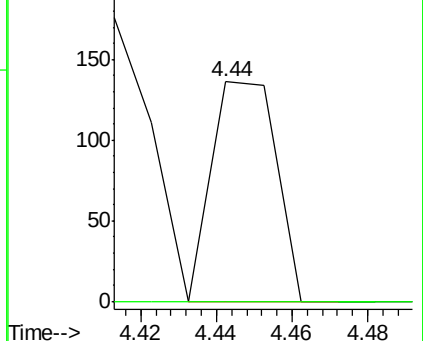
43 100

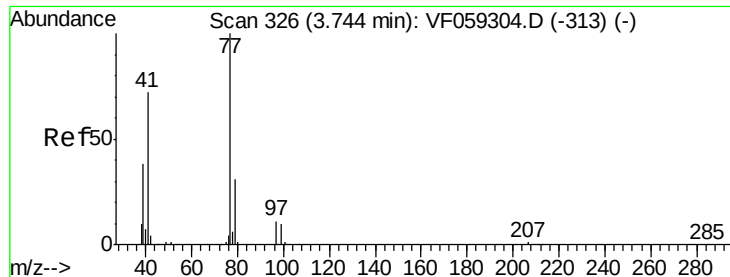
72 0.0 14.4 21.6#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 72.00 (71.70 to 72.70): VF0





#26

2,2-Dichloropropane

Concen: 2.467 ug/l

RT: 3.72 min Scan# 324

Delta R.T. -0.02 min

Lab File: VF059422.D

Acq: 3 Jul 2018 19:53

Instrument :

MSVOA_F

ClientSampled :

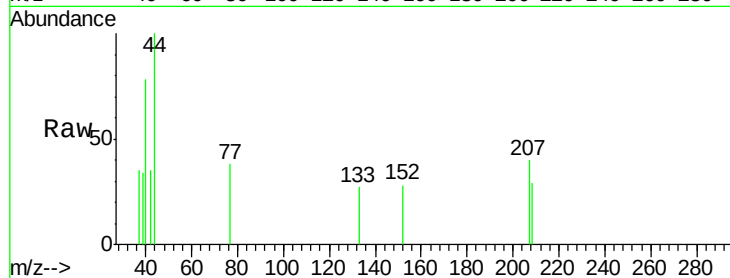
GF-G-2

Tgt Ion: 77 Resp: 109

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

3.72

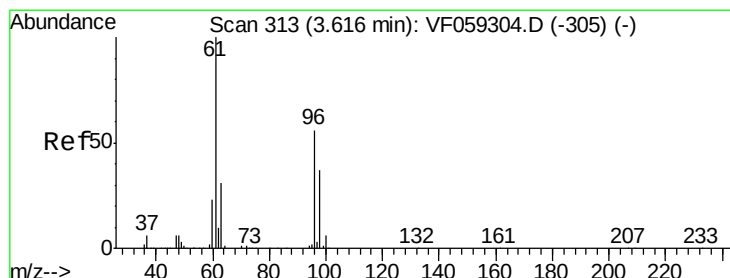
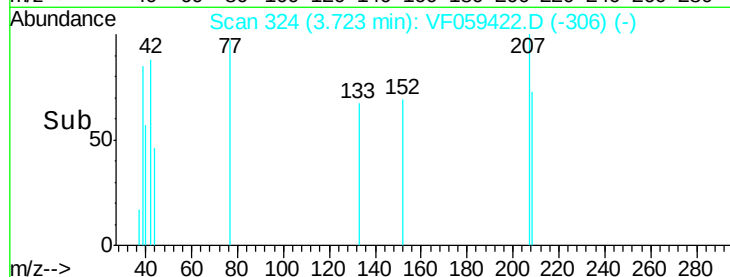
150

100

50

0

Time--> 3.70 3.72 3.74



#27

cis-1,2-Dichloroethene

Concen: 1.490 ug/l

RT: 3.58 min Scan# 309

Delta R.T. -0.04 min

Lab File: VF059422.D

Acq: 3 Jul 2018 19:53

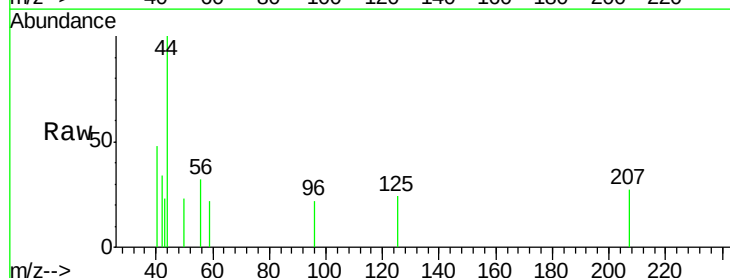
Tgt Ion: 96 Resp: 60

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

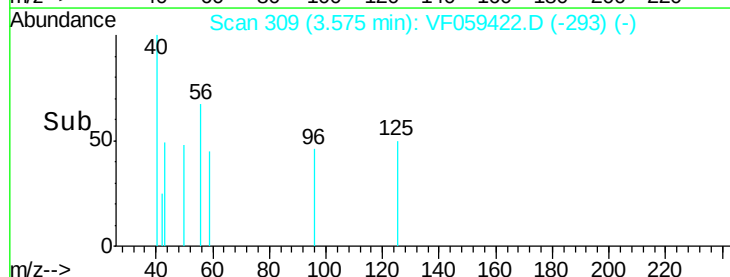
150

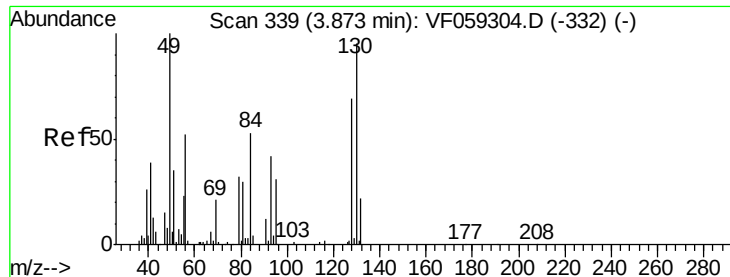
100

50

0

Time--> 3.56 3.58





#28

Bromochloromethane

Concen: Below Cal

RT: 3.79 min Scan# 331

Delta R.T. -0.08 min

Lab File: VF059422.D

Acq: 3 Jul 2018 19:53

Instrument :

MSVOA_F

ClientSampled :

GF-G-2

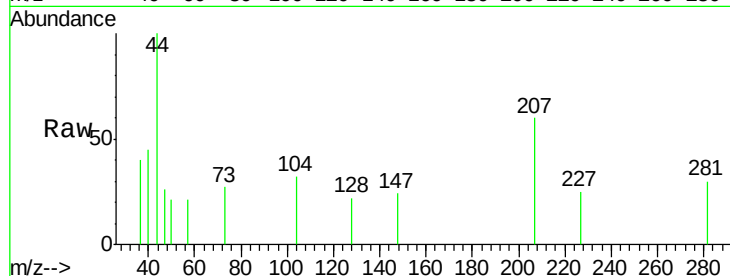
Tgt Ion: 49 Resp: 60

Ion Ratio Lower Upper

49 100

129 0.0 0.0 6.4

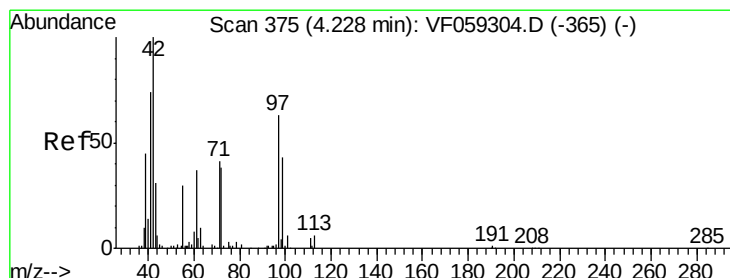
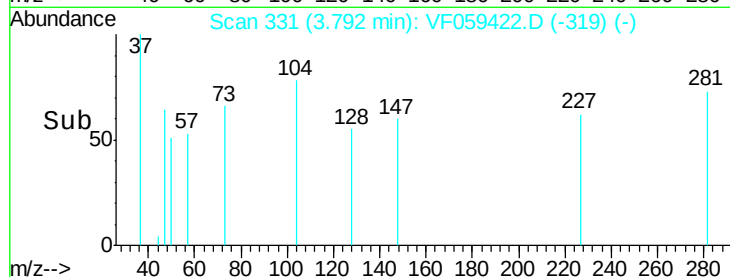
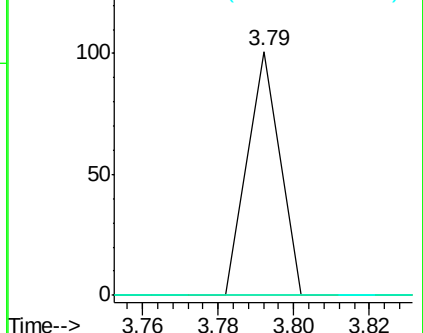
130 0.0 75.1 112.7#



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: 11.089 ug/l

RT: 4.24 min Scan# 376

Delta R.T. 0.01 min

Lab File: VF059422.D

Acq: 3 Jul 2018 19:53

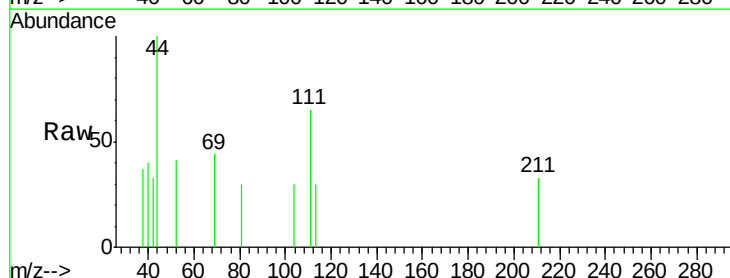
Tgt Ion: 42 Resp: 137

Ion Ratio Lower Upper

42 100

72 0.0 30.5 45.7#

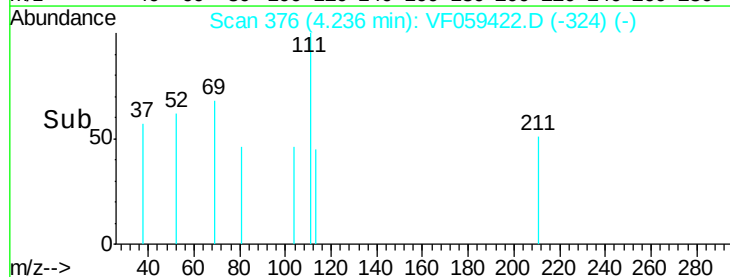
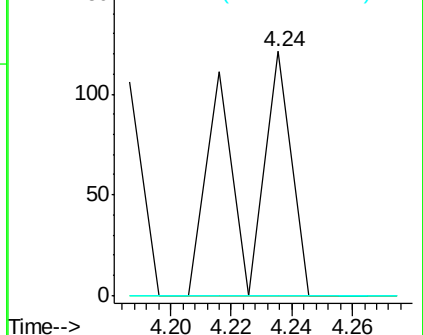
71 0.0 32.5 48.7#

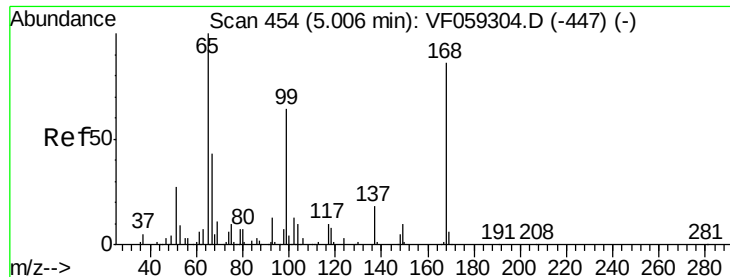


Abundance Ion 42.00 (41.70 to 42.70): VF0

Ion 72.00 (71.70 to 72.70): VF0

Ion 71.00 (70.70 to 71.70): VF0





#33

1,2-Dichloroethane-d4

Concen: 21.461 ug/l

RT: 4.98 min Scan# 452

Delta R.T. -0.02 min

Lab File: VF059422.D

Acq: 3 Jul 2018 19:53

Instrument :

MSVOA_F

ClientSampled :

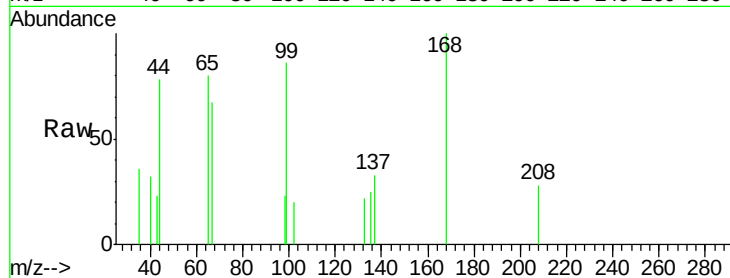
GF-G-2

Tgt Ion: 65 Resp: 1169

Ion Ratio Lower Upper

65 100

67 84.1 0.0 96.8



Abundance Ion 65.00 (64.70 to 65.70): VF0

Ion 67.00 (66.70 to 67.70): VF0

4.98

400

300

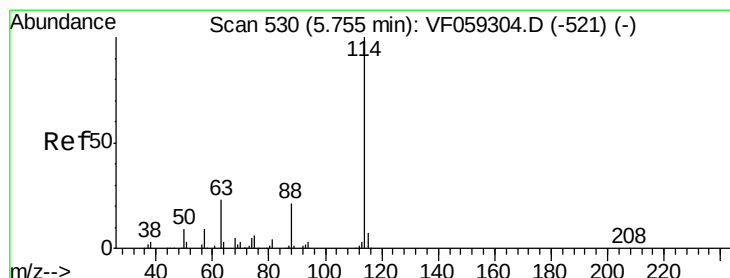
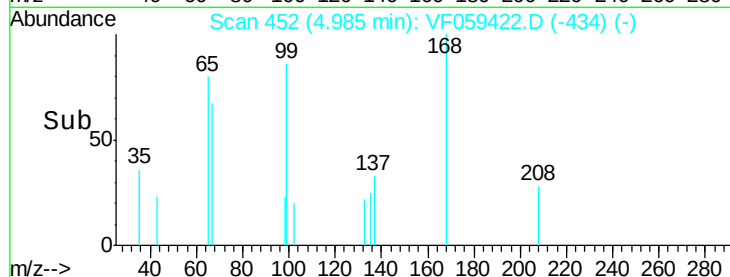
200

100

0

4.90 4.95 5.00 5.05 5.10

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.72 min Scan# 527

Delta R.T. -0.03 min

Lab File: VF059422.D

Acq: 3 Jul 2018 19:53

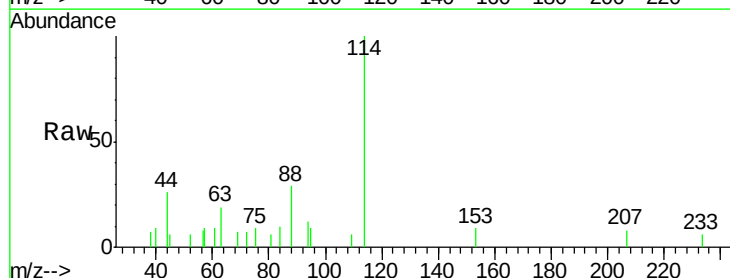
Tgt Ion: 114 Resp: 4276

Ion Ratio Lower Upper

114 100

63 19.0 0.0 45.8

88 29.1 0.0 41.2



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

2000

1500

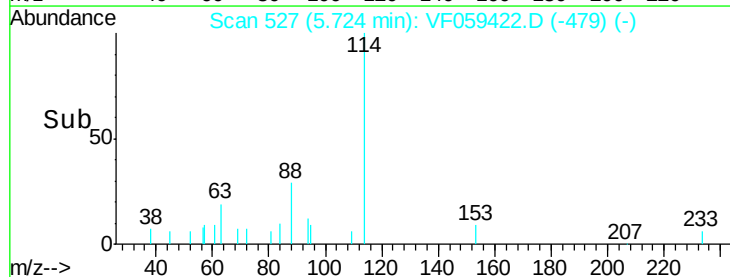
1000

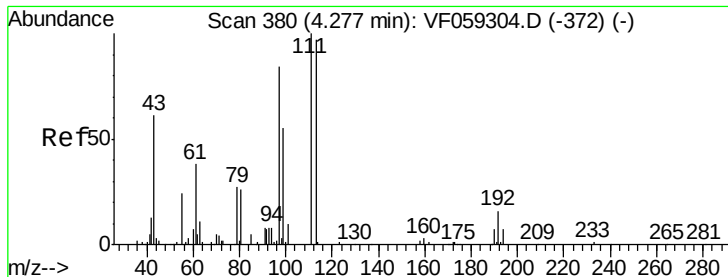
500

0

5.65 5.70 5.75 5.80

Time-->





#35

Dibromofluoromethane

Concen: 37.608 ug/l

RT: 4.26 min Scan# 378

Delta R.T. -0.02 min

Lab File: VF059422.D

Acq: 3 Jul 2018 19:53

Instrument :

MSVOA_F

ClientSampled :

GF-G-2

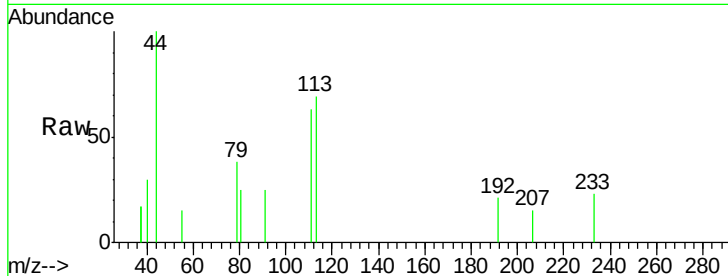
Tgt Ion:113 Resp: 1175

Ion Ratio Lower Upper

113 100

111 91.7 82.1 123.1

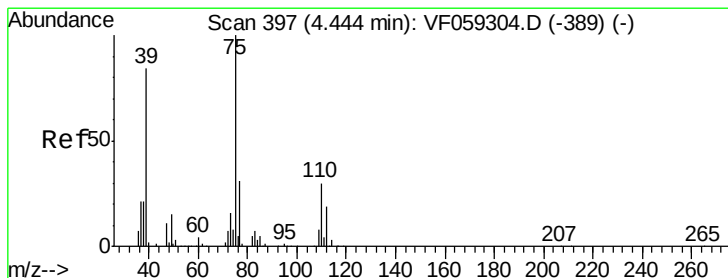
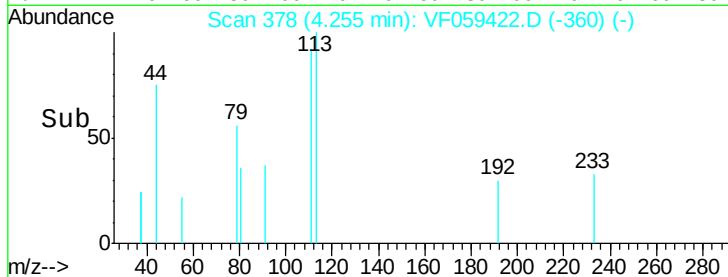
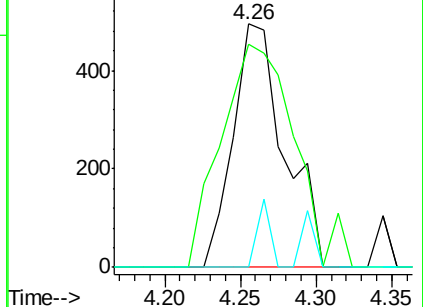
192 0.0 13.0 19.6#



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



#36

1,1-Dichloropropene

Concen: 1.660 ug/l

RT: 4.27 min Scan# 379

Delta R.T. -0.18 min

Lab File: VF059422.D

Acq: 3 Jul 2018 19:53

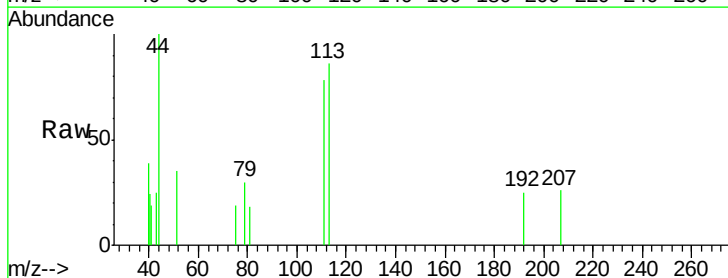
Tgt Ion: 75 Resp: 62

Ion Ratio Lower Upper

75 100

110 0.0 14.8 44.4#

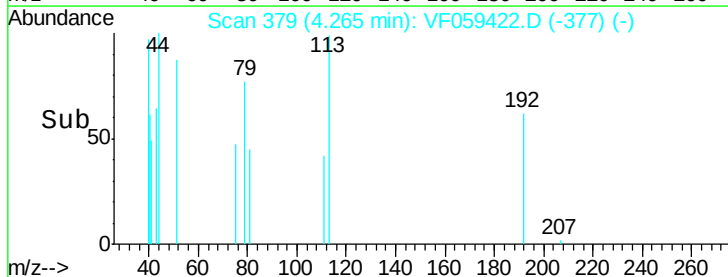
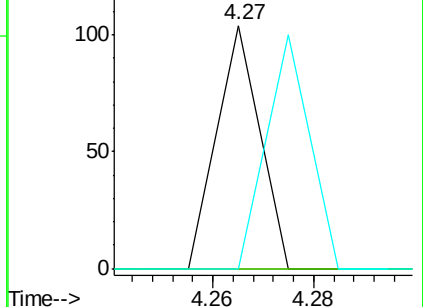
77 0.0 25.2 37.8#

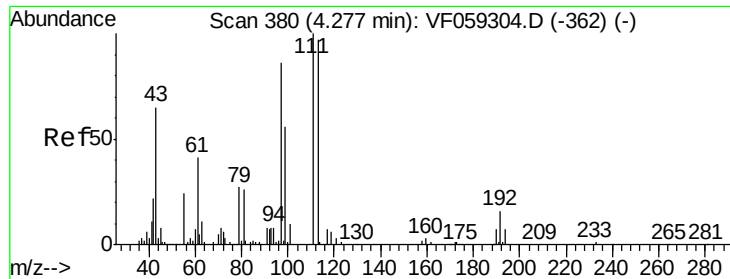


Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 110.00 (109.70 to 110.70): V

Ion 77.00 (76.70 to 77.70): VF0





#37

Ethyl Acetate

Concen: 2.054 ug/l

RT: 4.27 min Scan# 379

Delta R.T. -0.01 min

Lab File: VF059422.D

Acq: 3 Jul 2018 19:53

Instrument :

MSVOA_F

ClientSampleId :

GF-G-2

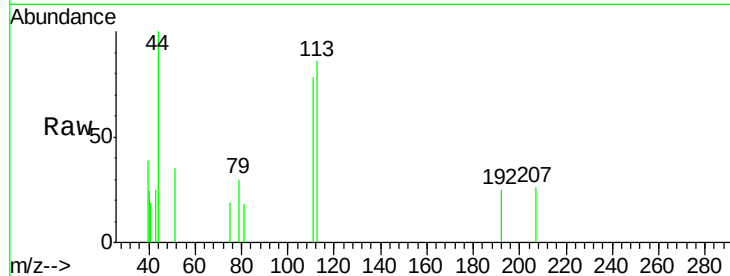
Tgt Ion: 43 Resp: 83

Ion Ratio Lower Upper

43 100

61 0.0 50.1 75.1#

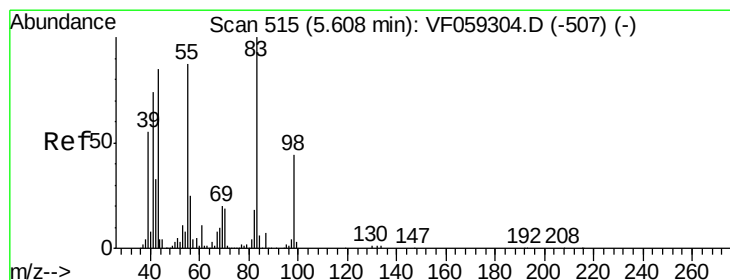
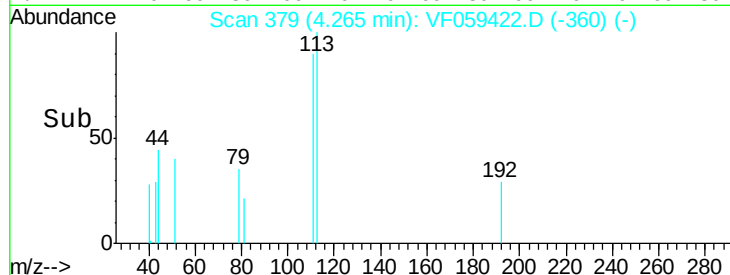
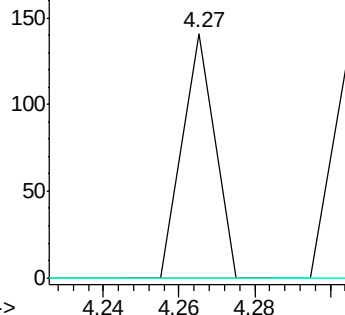
70 0.0 6.2 9.4#



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: 2.084 ug/l

RT: 5.50 min Scan# 504

Delta R.T. -0.11 min

Lab File: VF059422.D

Acq: 3 Jul 2018 19:53

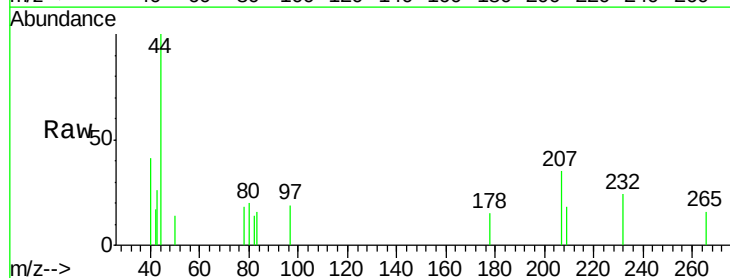
Tgt Ion: 83 Resp: 69

Ion Ratio Lower Upper

83 100

55 0.0 69.2 103.8#

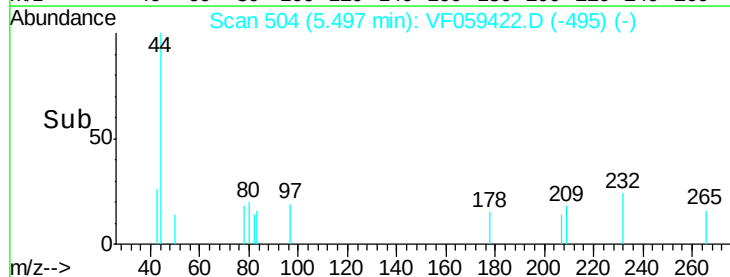
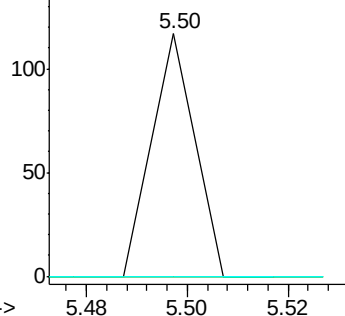
98 0.0 35.0 52.6#

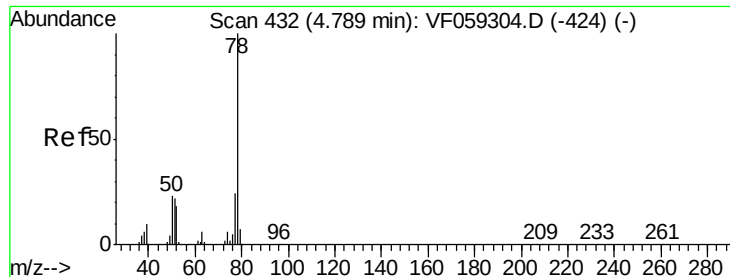


Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 98.00 (97.70 to 98.70): VF0





#40

Benzene

Concen: 1.026 ug/l

RT: 4.78 min Scan# 431

Delta R.T. -0.01 min

Lab File: VF059422.D

Acq: 3 Jul 2018 19:53

Instrument :

MSVOA_F

ClientSampled :

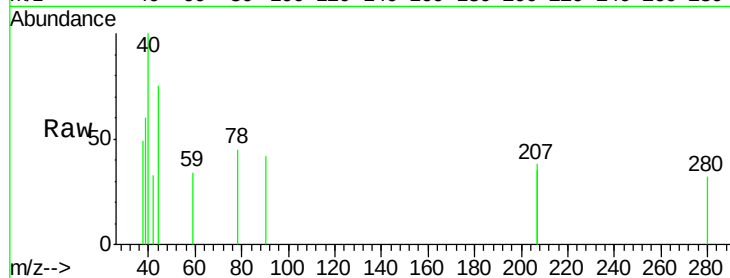
GF-G-2

Tgt Ion: 78 Resp: 85

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

4.78

150

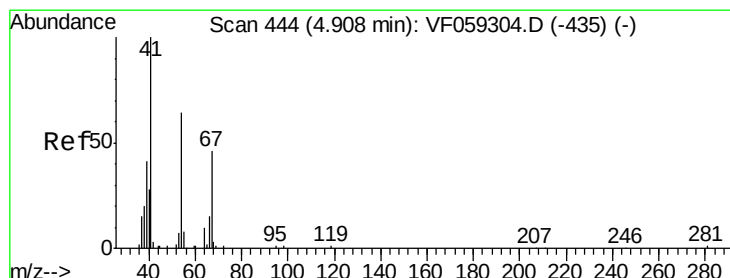
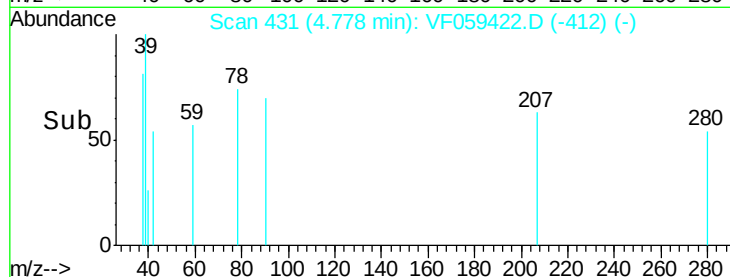
100

50

0

4.76 4.78

Time-->



#41

Methacrylonitrile

Concen: 6.278 ug/l

RT: 4.91 min Scan# 444

Delta R.T. -0.00 min

Lab File: VF059422.D

Acq: 3 Jul 2018 19:53

Tgt Ion: 41 Resp: 80

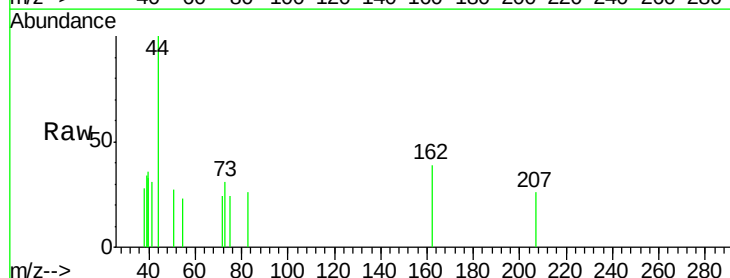
Ion Ratio Lower Upper

41 100

39 330.4 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

400

300

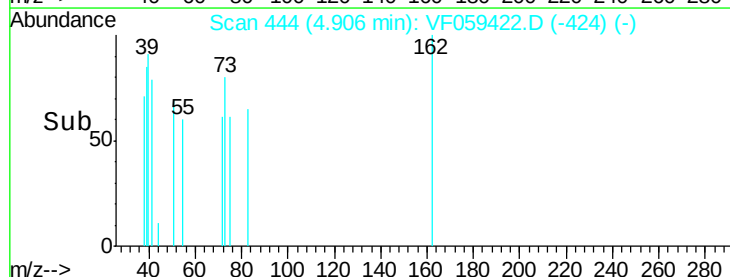
200

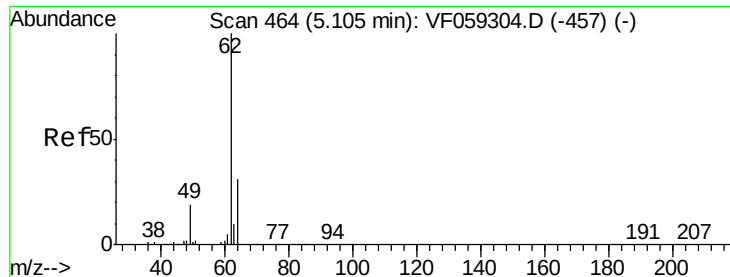
100

0

4.88 4.90 4.92

Time-->

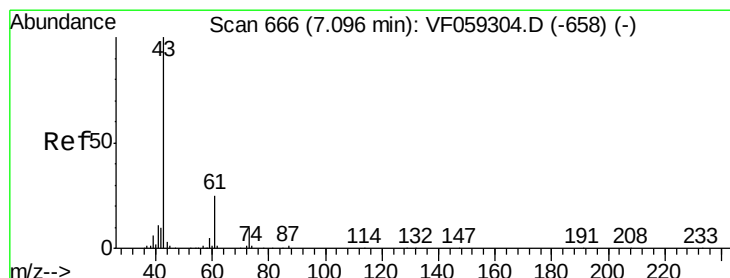
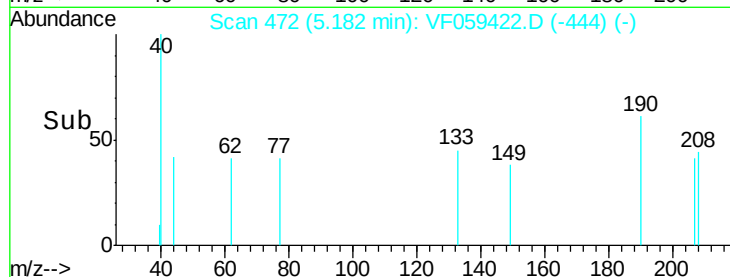
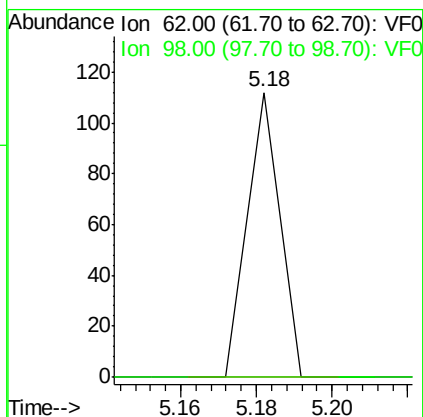
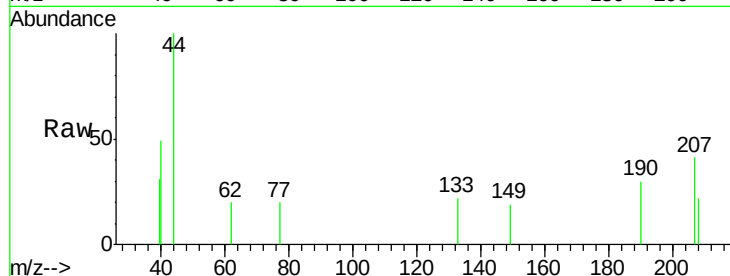




#42
1,2-Dichloroethane
Concen: 1.364 ug/l
RT: 5.18 min Scan# 472
Delta R.T. 0.08 min
Lab File: VF059422.D
Acq: 3 Jul 2018 19:53

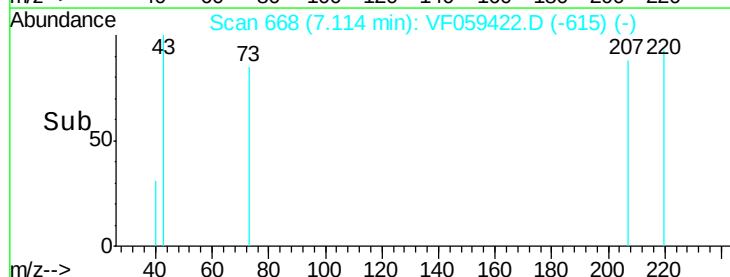
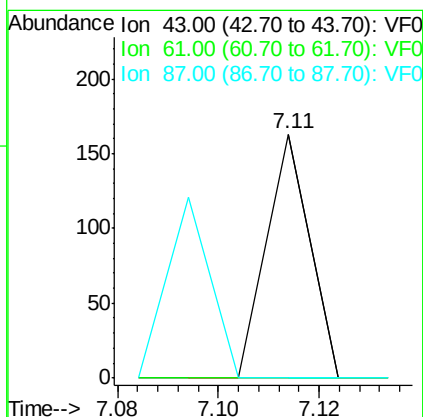
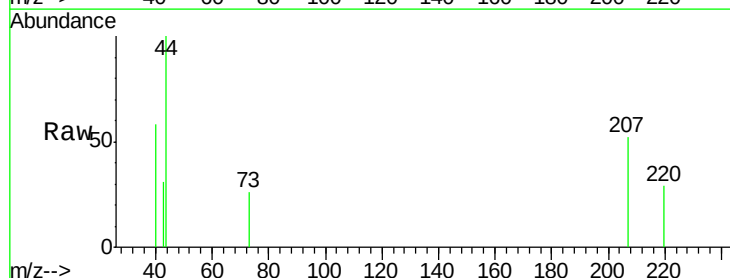
Instrument :
MSVOA_F
ClientSampled :
GF-G-2

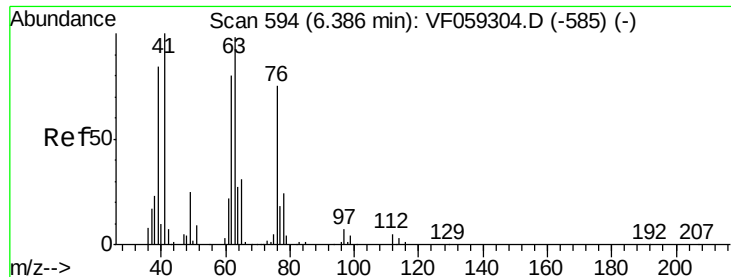
Tgt Ion: 62 Resp: 66
Ion Ratio Lower Upper
62 100
98 0.0 0.0 11.4



#43
Isopropyl Acetate
Concen: 3.085 ug/l
RT: 7.11 min Scan# 668
Delta R.T. 0.02 min
Lab File: VF059422.D
Acq: 3 Jul 2018 19:53

Tgt Ion: 43 Resp: 96
Ion Ratio Lower Upper
43 100
61 0.0 19.7 29.5#
87 0.0 0.5 0.7#





#45

1,2-Dichloropropane

Concen: 2.578 ug/l

RT: 6.25 min Scan# 580

Delta R.T. -0.14 min

Lab File: VF059422.D

Acq: 3 Jul 2018 19:53

Instrument :

MSVOA_F

ClientSampled :

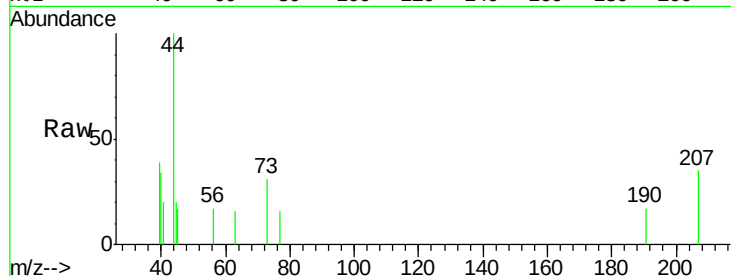
GF-G-2

Tgt Ion: 63 Resp: 61

Ion Ratio Lower Upper

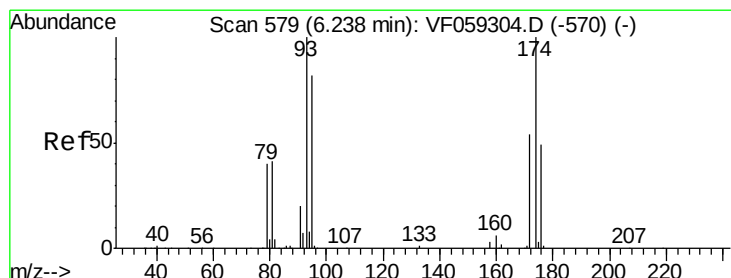
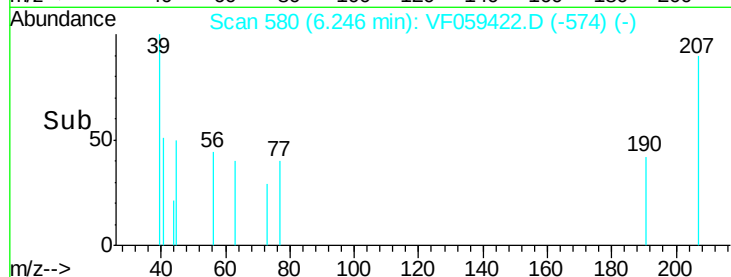
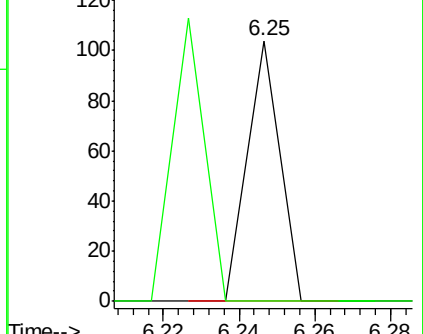
63 100

65 0.0 25.3 37.9#



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 65.00 (64.70 to 65.70): VF0



#46

Dibromomethane

Concen: 5.405 ug/l

RT: 6.08 min Scan# 563

Delta R.T. -0.16 min

Lab File: VF059422.D

Acq: 3 Jul 2018 19:53

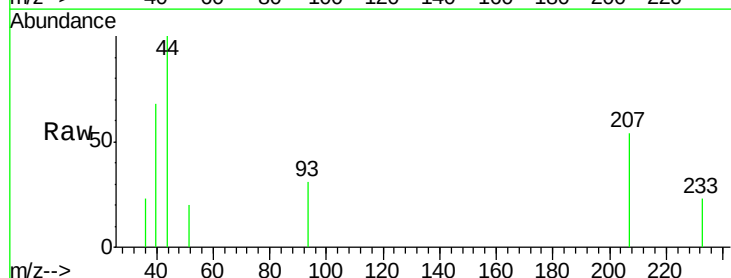
Tgt Ion: 93 Resp: 111

Ion Ratio Lower Upper

93 100

95 0.0 65.6 98.4#

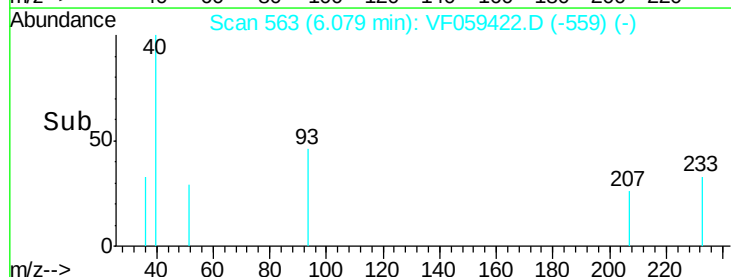
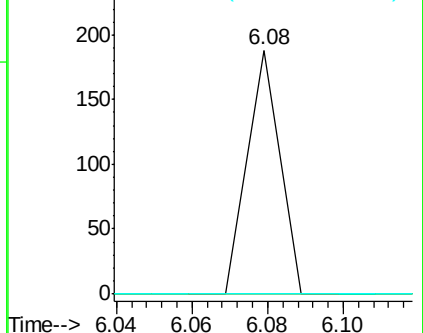
174 0.0 80.0 120.0#

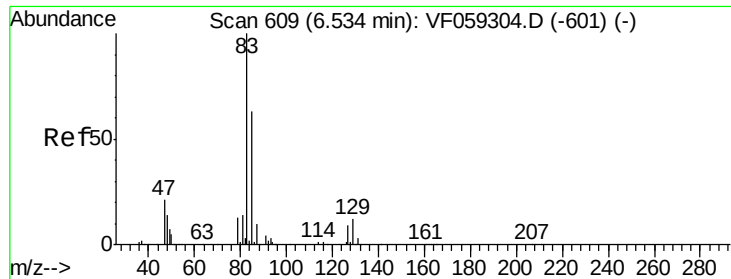


Abundance Ion 93.00 (92.70 to 93.70): VF0

Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V





#47

Bromodichloromethane

Concen: 1.529 ug/l

RT: 6.48 min Scan# 604

Delta R.T. -0.05 min

Lab File: VF059422.D

Acq: 3 Jul 2018 19:53

Instrument :

MSVOA_F

ClientSampleId :

GF-G-2

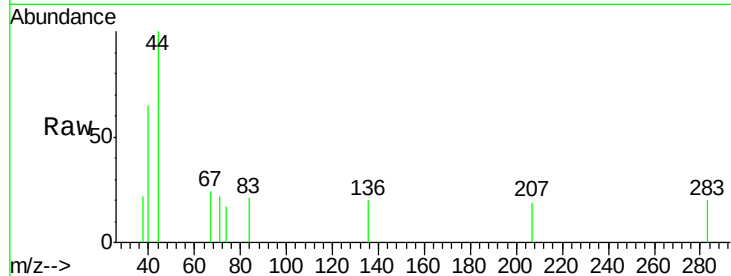
Tgt Ion: 83 Resp: 76

Ion Ratio Lower Upper

83 100

85 0.0 50.2 75.2#

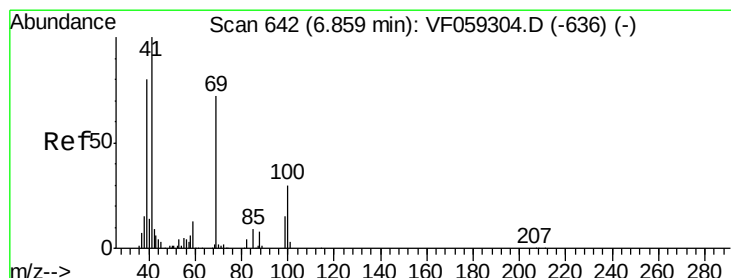
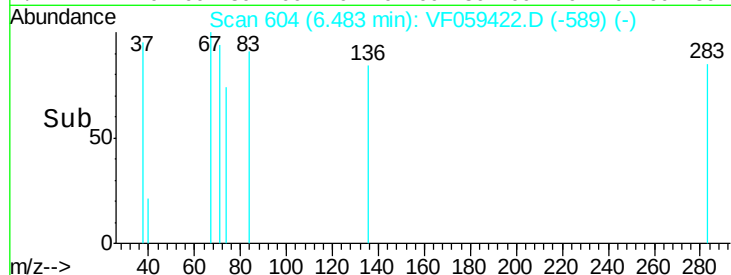
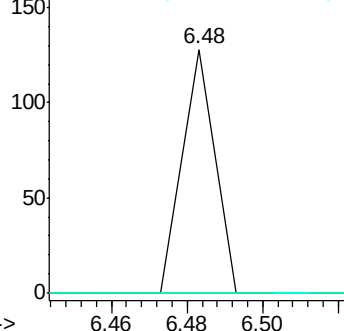
127 0.0 7.0 10.4#



Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 85.00 (84.70 to 85.70): VF0

Ion 127.00 (126.70 to 127.70): V



#48

Methyl methacrylate

Concen: 13.715 ug/l

RT: 6.81 min Scan# 637

Delta R.T. -0.05 min

Lab File: VF059422.D

Acq: 3 Jul 2018 19:53

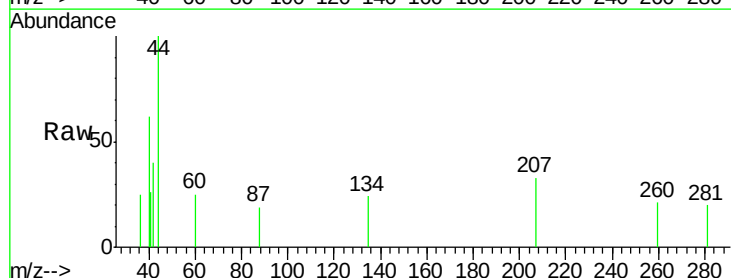
Tgt Ion: 41 Resp: 286

Ion Ratio Lower Upper

41 100

69 0.0 57.3 85.9#

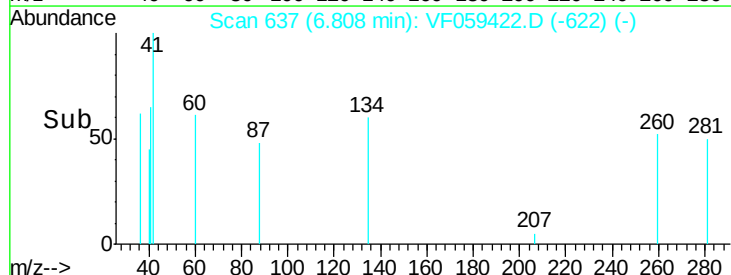
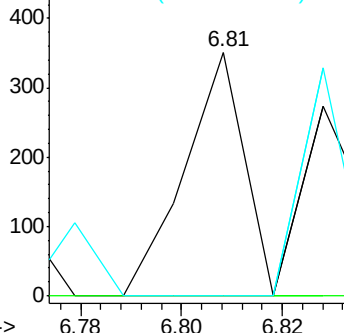
39 0.0 64.4 96.6#

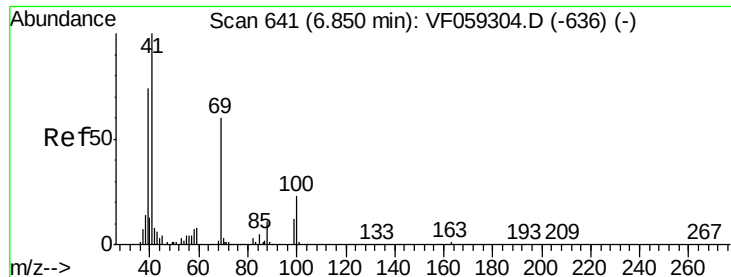


Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 69.00 (68.70 to 69.70): VF0

Ion 39.00 (38.70 to 39.70): VF0





#49

1,4-Dioxane

Concen: 612.646 ug/l

RT: 6.87 min Scan# 643

Delta R.T. 0.02 min

Lab File: VF059422.D

Acq: 3 Jul 2018 19:53

Instrument :

MSVOA_F

ClientSampleId :

GF-G-2

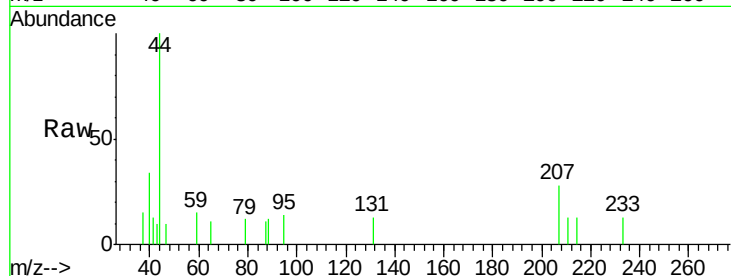
Tgt Ion: 88 Resp: 70

Ion Ratio Lower Upper

88 100

43 84.9 50.6 75.8#

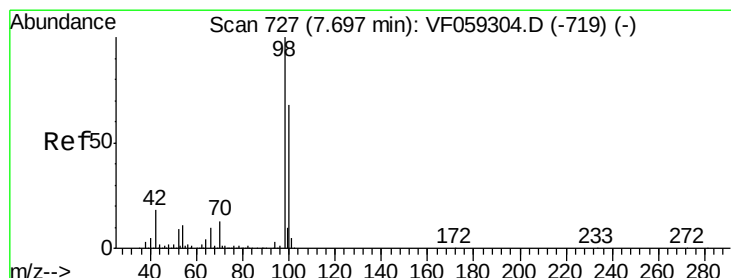
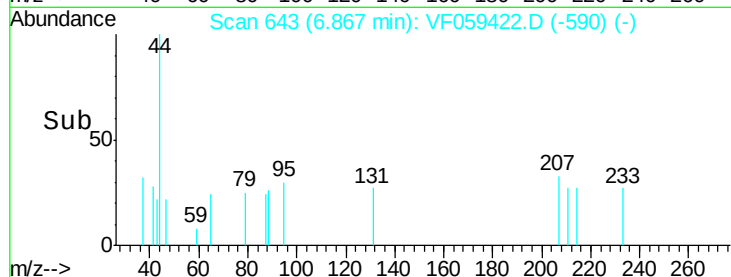
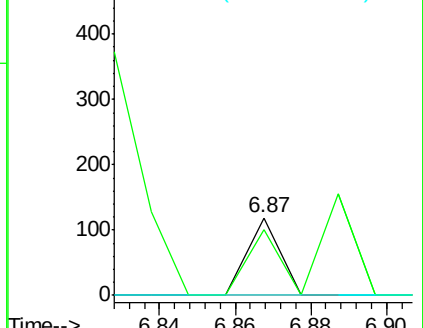
58 0.0 46.6 69.8#



Abundance Ion 88.00 (87.70 to 88.70): VF0

Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#50

Toluene-d8

Concen: 55.187 ug/l

RT: 7.68 min Scan# 725

Delta R.T. -0.02 min

Lab File: VF059422.D

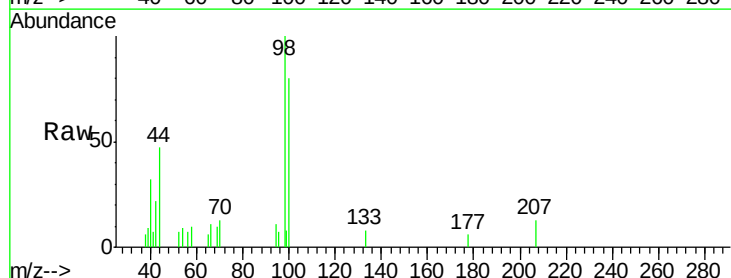
Acq: 3 Jul 2018 19:53

Tgt Ion: 98 Resp: 4269

Ion Ratio Lower Upper

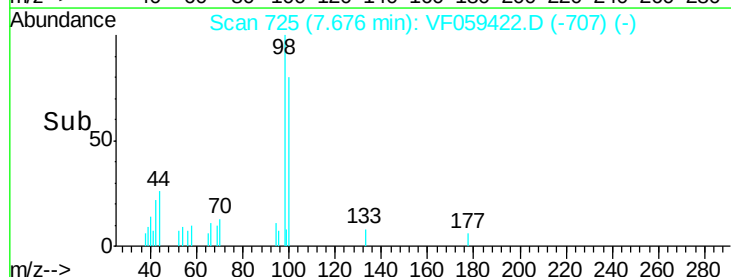
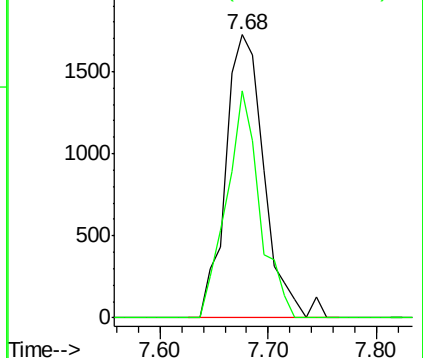
98 100

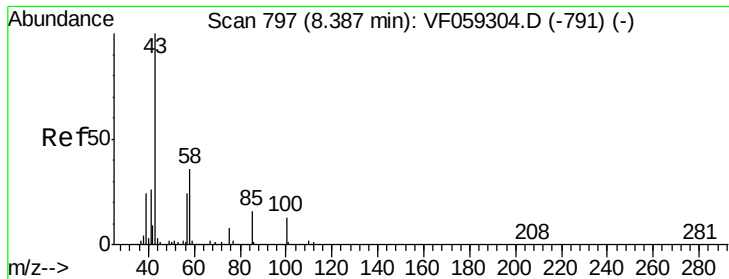
100 80.2 54.6 82.0



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0

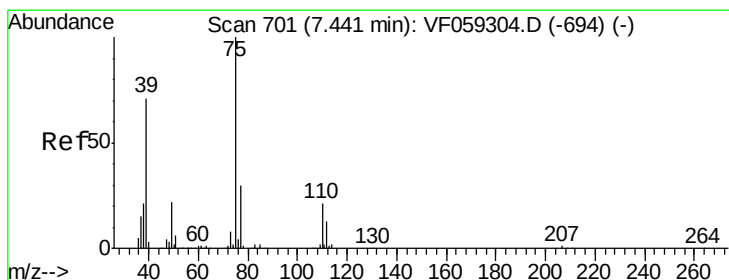
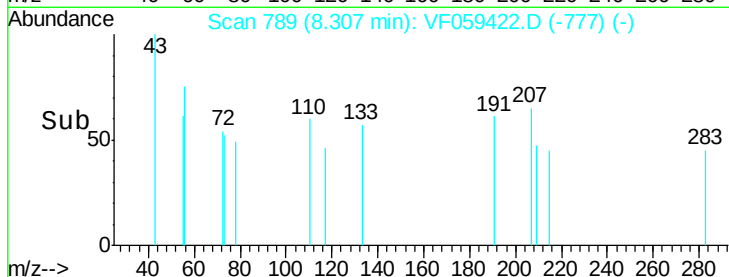
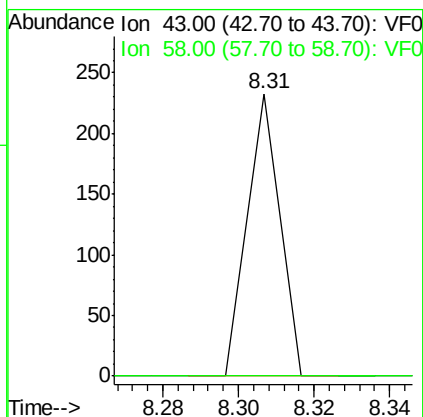
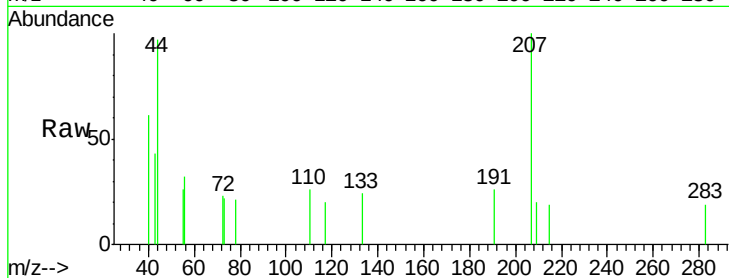




#51
4-Methyl-2-Pentanone
Concen: 5.987 ug/l
RT: 8.31 min Scan# 789
Delta R.T. -0.08 min
Lab File: VF059422.D
Acq: 3 Jul 2018 19:53

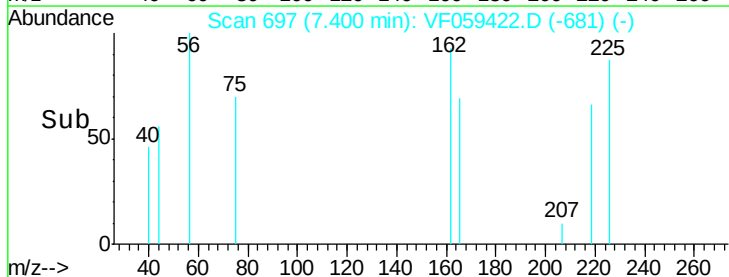
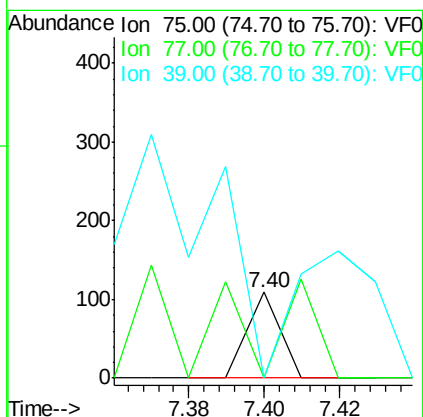
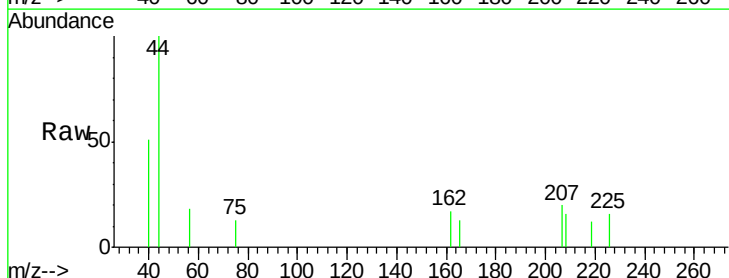
Instrument :
MSVOA_F
ClientSampled :
GF-G-2

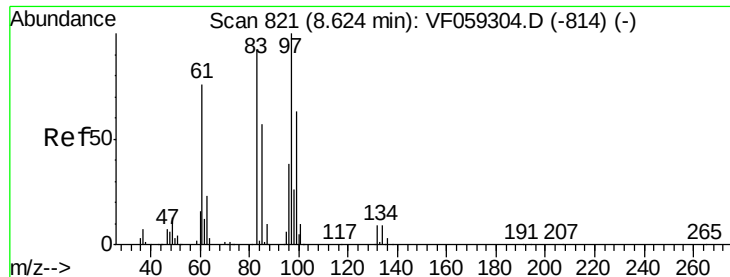
Tgt Ion: 43 Resp: 138
Ion Ratio Lower Upper
43 100
58 0.0 28.4 42.6#



#54
cis-1,3-Dichloropropene
Concen: 1.300 ug/l
RT: 7.40 min Scan# 697
Delta R.T. -0.04 min
Lab File: VF059422.D
Acq: 3 Jul 2018 19:53

Tgt Ion: 75 Resp: 64
Ion Ratio Lower Upper
75 100
77 0.0 24.3 36.5#
39 0.0 57.2 85.8#





#55

1,1,2-Trichloroethane

Concen: 2.535 ug/l

RT: 8.41 min Scan# 799

Delta R.T. -0.22 min

Lab File: VF059422.D

Acq: 3 Jul 2018 19:53

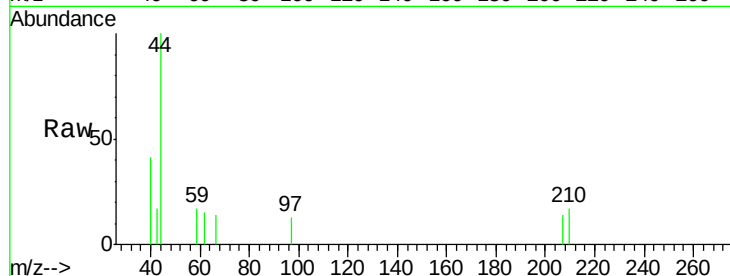
Instrument :

MSVOA_F

ClientSampled :

GF-G-2

Tgt Ion:	97	Resp:	61
Ion	Ratio	Lower	Upper
97	100		
83	0.0	73.8	110.8#
85	0.0	45.5	68.3#
99	0.0	50.7	76.1#

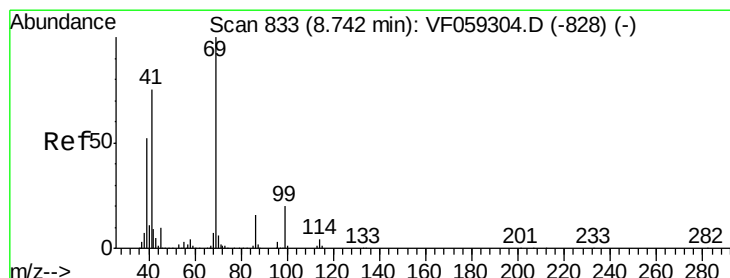
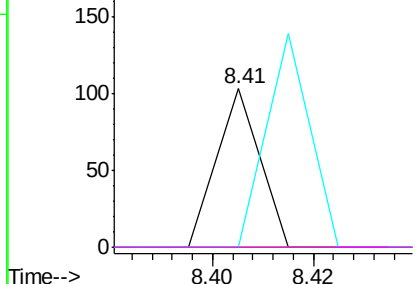
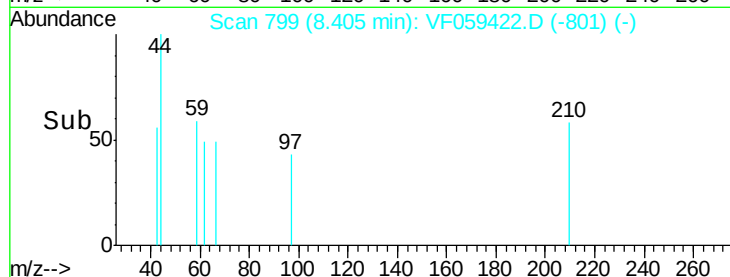


Abundance Ion 97.00 (96.70 to 97.70): VF0

Ion 82.95 (82.65 to 83.65): VF0

Ion 84.95 (84.65 to 85.65): VF0

Ion 98.95 (98.65 to 99.65): VF0



#56

Ethyl methacrylate

Concen: 2.382 ug/l

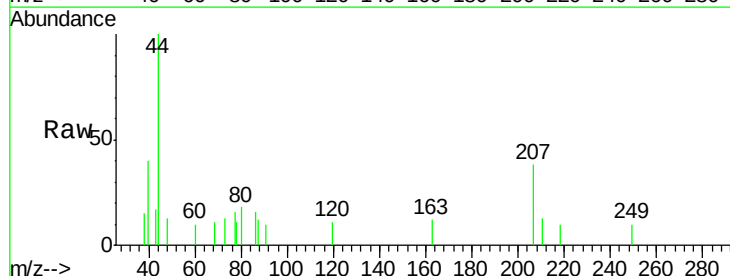
RT: 8.69 min Scan# 828

Delta R.T. -0.05 min

Lab File: VF059422.D

Acq: 3 Jul 2018 19:53

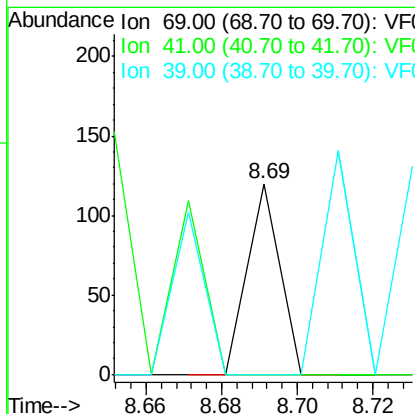
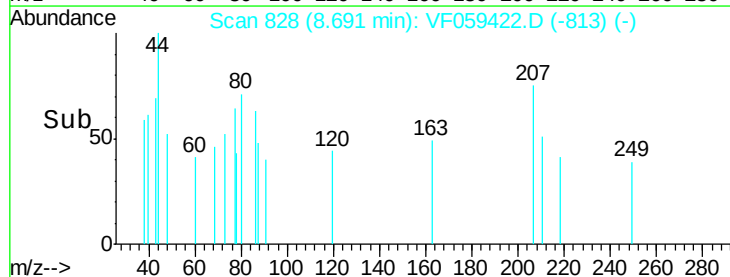
Tgt Ion:	69	Resp:	71
Ion	Ratio	Lower	Upper
69	100		
41	0.0	60.3	90.5#
39	0.0	42.2	63.4#

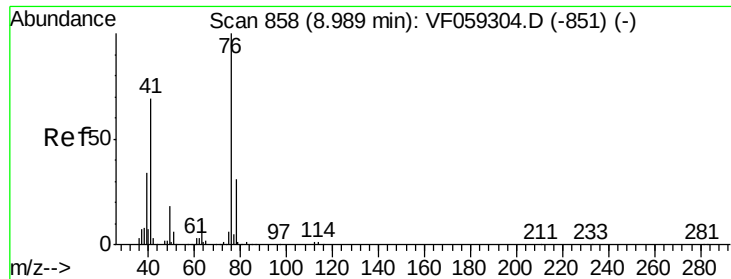


Abundance Ion 69.00 (68.70 to 69.70): VF0

Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0





#57

1,3-Dichloropropane

Concen: 1.502 ug/l

RT: 8.83 min Scan# 842

Delta R.T. -0.16 min

Lab File: VF059422.D

Acq: 3 Jul 2018 19:53

Instrument :

MSVOA_F

ClientSampled :

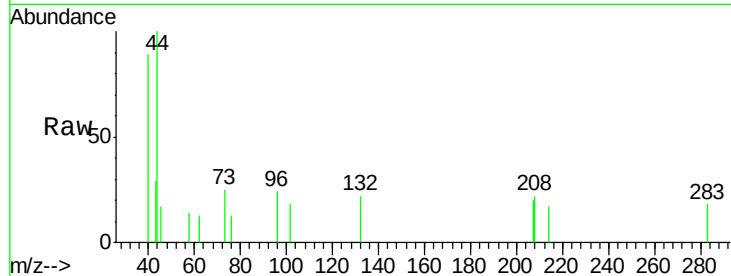
GF-G-2

Tgt Ion: 76 Resp: 62

Ion Ratio Lower Upper

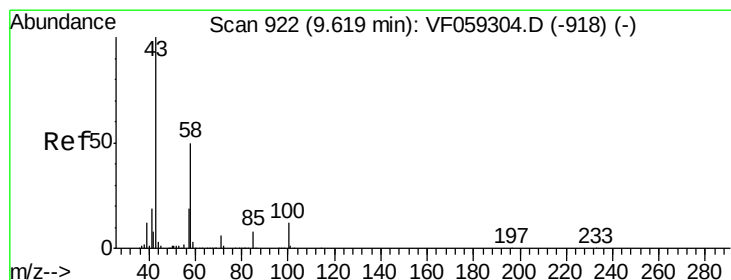
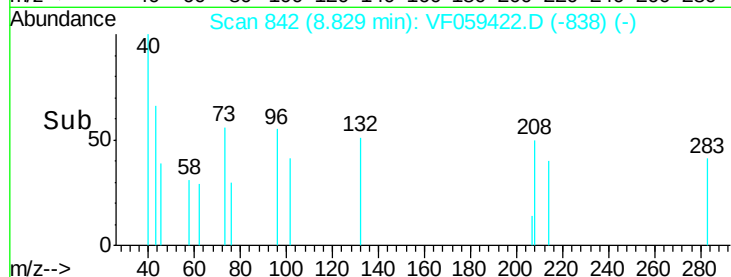
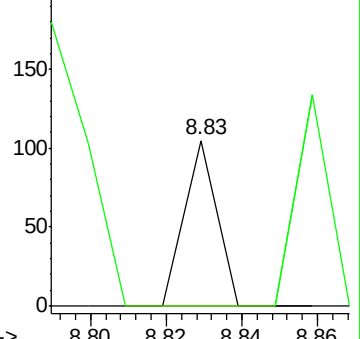
76 100

78 0.0 24.9 37.3#



Abundance Ion 76.00 (75.70 to 76.70): VF0

Ion 78.00 (77.70 to 78.70): VF0



#59

2-Hexanone

Concen: Below Cal

RT: 9.56 min Scan# 916

Delta R.T. -0.06 min

Lab File: VF059422.D

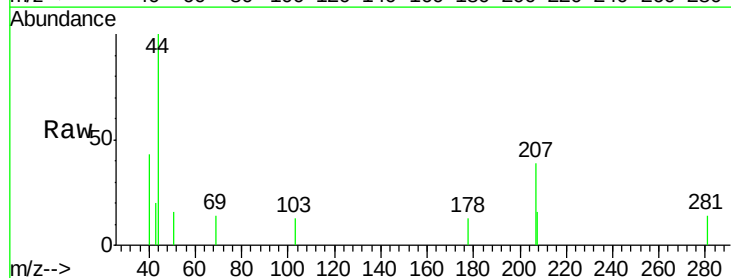
Acq: 3 Jul 2018 19:53

Tgt Ion: 43 Resp: 96

Ion Ratio Lower Upper

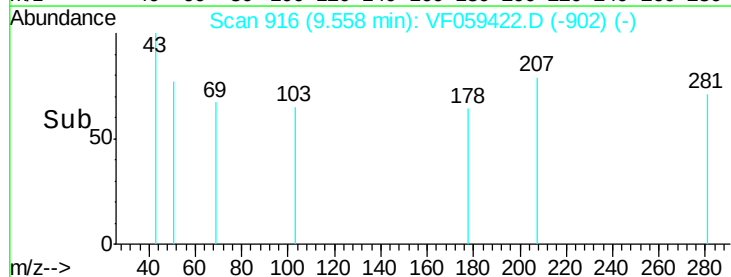
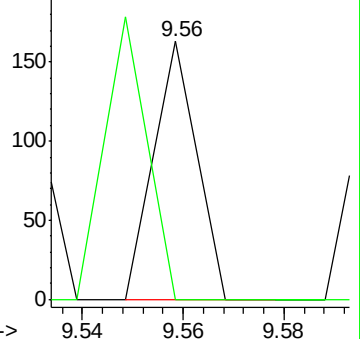
43 100

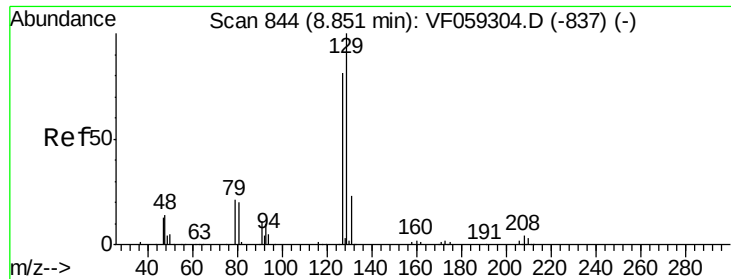
58 0.0 23.3 69.9#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0





#60

Dibromochloromethane

Concen: 3.553 ug/l

RT: 8.82 min Scan# 841

Delta R.T. -0.03 min

Lab File: VF059422.D

Acq: 3 Jul 2018 19:53

Instrument :

MSVOA_F

ClientSampled :

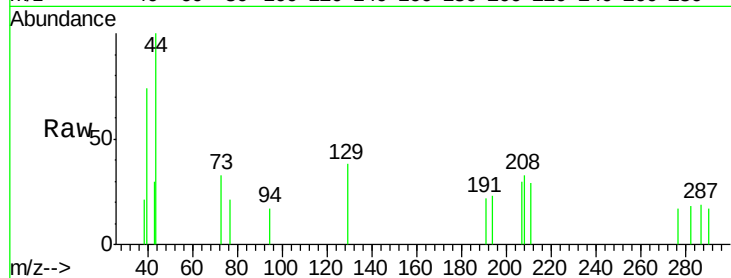
GF-G-2

Tgt Ion:129 Resp: 132

Ion Ratio Lower Upper

129 100

127 0.0 40.7 122.1#



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V

8.82

250

200

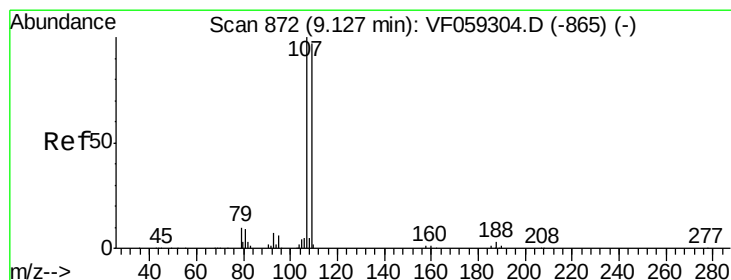
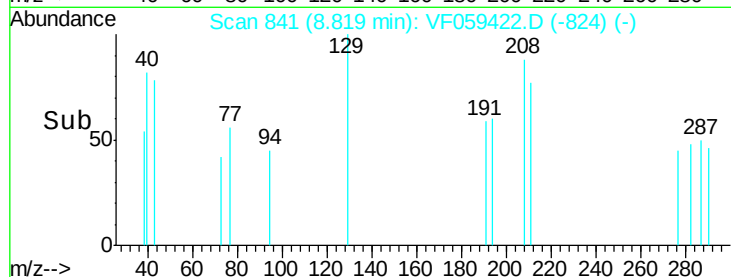
150

100

50

0

Time--> 8.78 8.80 8.82 8.84



#61

1,2-Dibromoethane

Concen: 2.502 ug/l

RT: 8.98 min Scan# 857

Delta R.T. -0.15 min

Lab File: VF059422.D

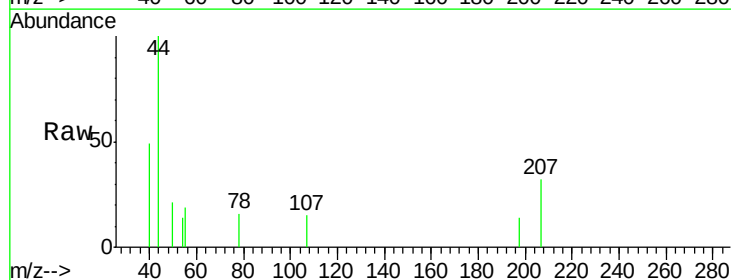
Acq: 3 Jul 2018 19:53

Tgt Ion:107 Resp: 73

Ion Ratio Lower Upper

107 100

109 0.0 77.3 115.9#



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

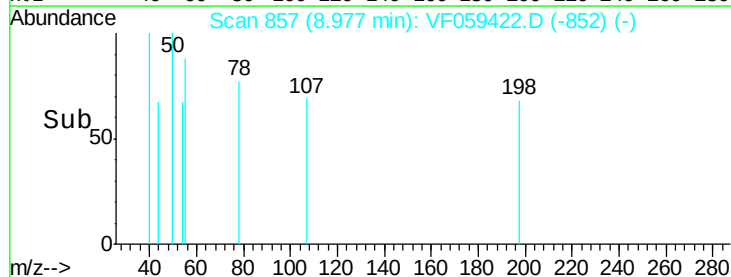
8.98

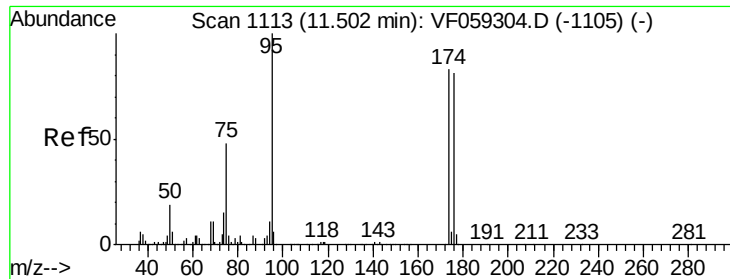
100

50

0

Time--> 8.94 8.96 8.98 9.00

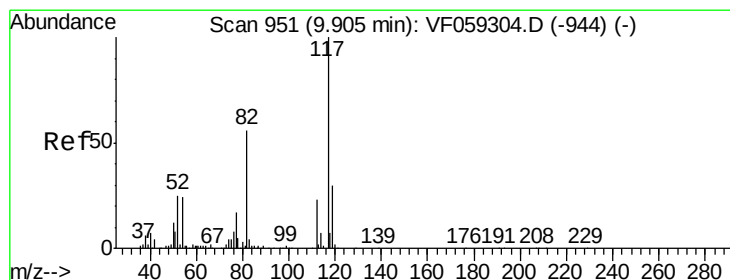
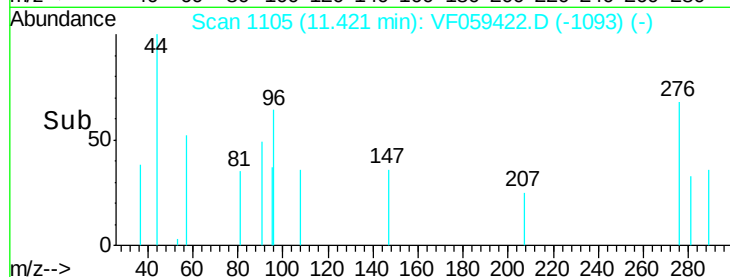
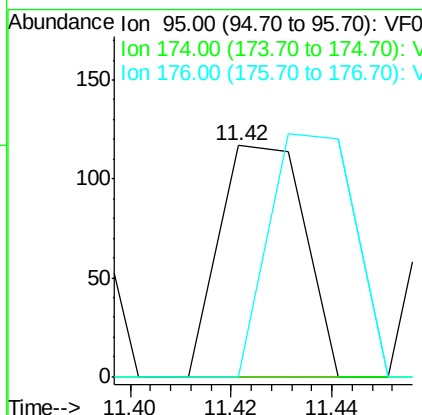
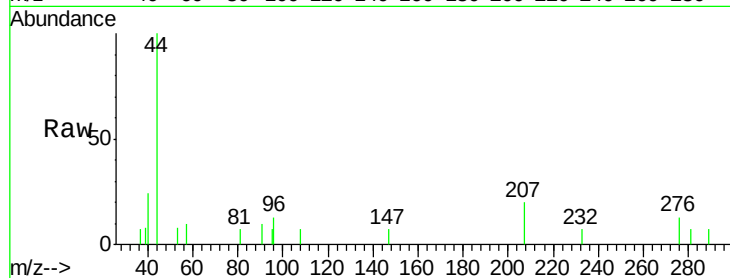




#62
4-Bromofluorobenzene
Concen: 3.140 ug/l
RT: 11.42 min Scan# 1105
Delta R.T. -0.08 min
Lab File: VF059422.D
Acq: 3 Jul 2018 19:53

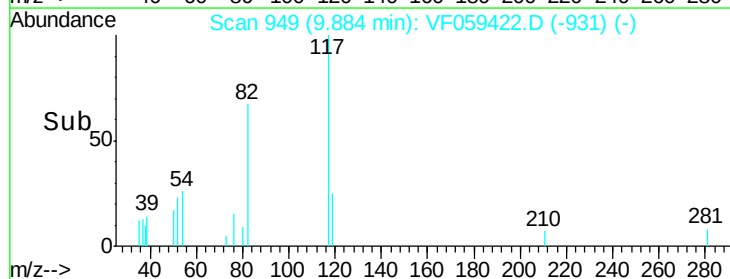
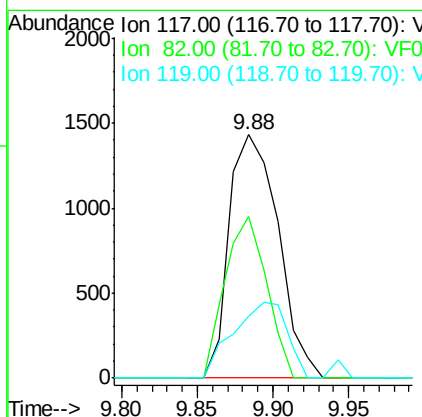
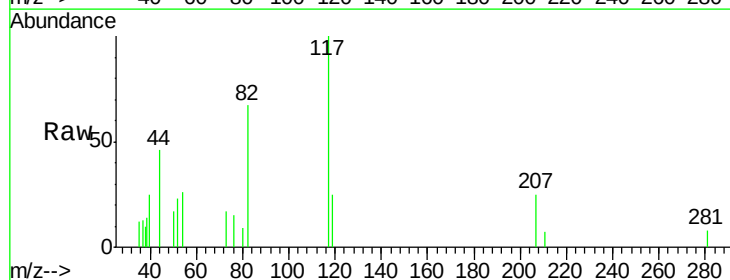
Instrument :
MSVOA_F
ClientSampleId :
GF-G-2

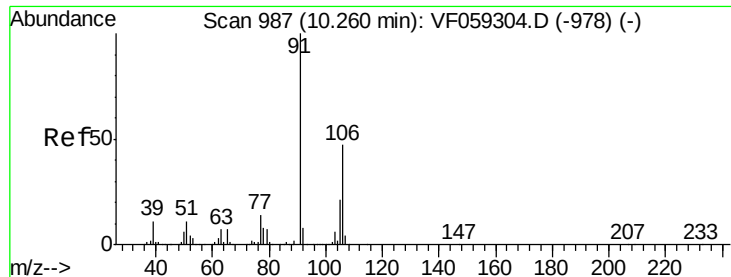
Tgt Ion: 95 Resp: 137
Ion Ratio Lower Upper
95 100
174 0.0 0.0 165.2
176 0.0 0.0 161.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.88 min Scan# 949
Delta R.T. -0.02 min
Lab File: VF059422.D
Acq: 3 Jul 2018 19:53

Tgt Ion: 117 Resp: 3239
Ion Ratio Lower Upper
117 100
82 66.6 44.6 66.8
119 25.5 24.1 36.1

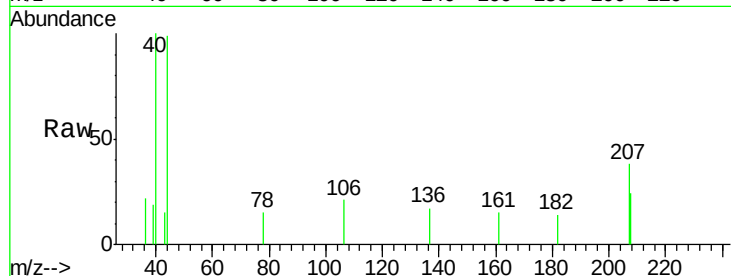




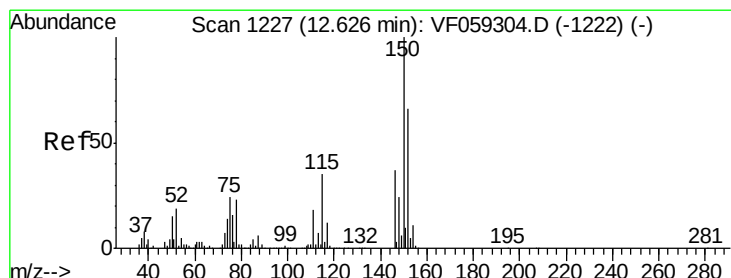
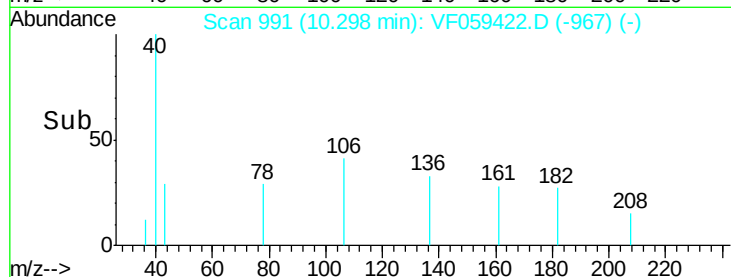
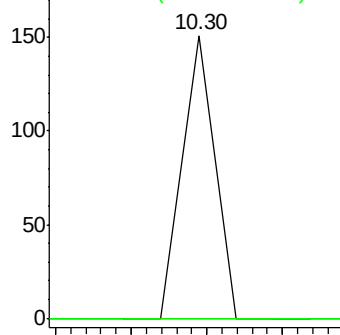
#68
m/p-Xylenes
Concen: 2.456 ug/l
RT: 10.30 min Scan# 991
Delta R.T. 0.04 min
Lab File: VF059422.D
Acq: 3 Jul 2018 19:53

Instrument :
MSVOA_F
ClientSampleId :
GF-G-2

Tgt Ion:106 Resp: 89
Ion Ratio Lower Upper
106 100
91 0.0 170.8 256.2#

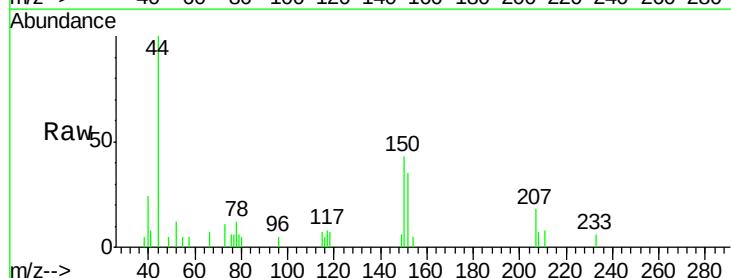


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VF0

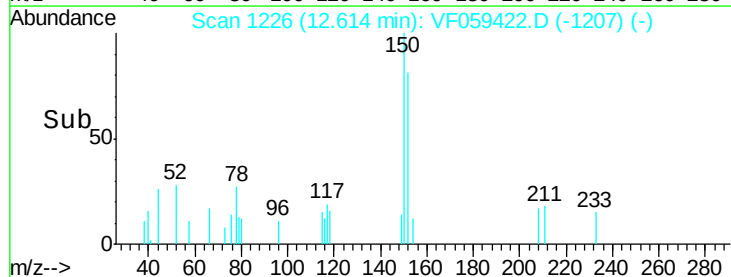
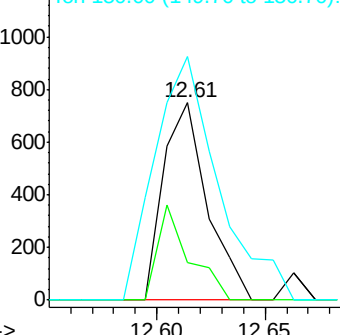


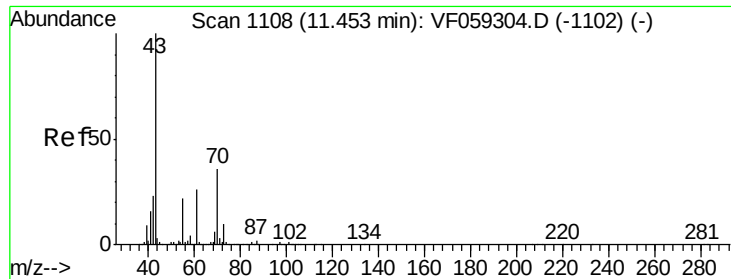
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.61 min Scan# 1226
Delta R.T. -0.01 min
Lab File: VF059422.D
Acq: 3 Jul 2018 19:53

Tgt Ion:152 Resp: 1068
Ion Ratio Lower Upper
152 100
115 19.1 27.1 81.3#
150 123.5 0.0 305.2



Abundance Ion 152.00 (151.70 to 152.70): V
Ion 115.00 (114.70 to 115.70): V
Ion 150.00 (149.70 to 150.70): V





#74

N-ethyl acetate

Concen: 7.795 ug/l

RT: 11.43 min Scan# 1106

Delta R.T. -0.02 min

Lab File: VF059422.D

Acq: 3 Jul 2018 19:53

Instrument :

MSVOA_F

ClientSampled :

GF-G-2

Tgt Ion: 43 Resp: 176

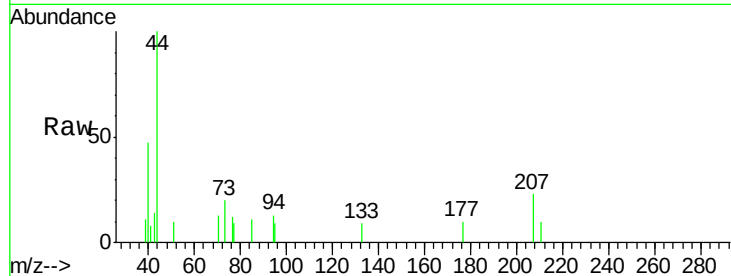
Ion Ratio Lower Upper

43 100

70 91.6 28.8 43.2#

55 0.0 17.4 26.0#

61 0.0 21.1 31.7#

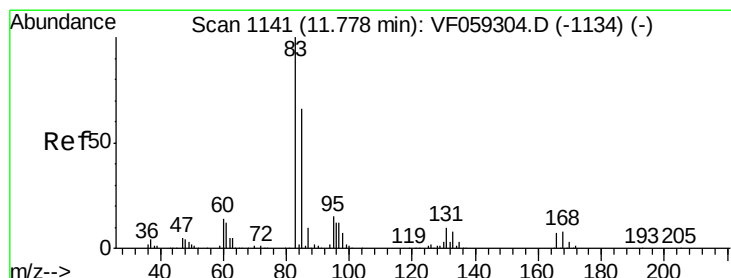
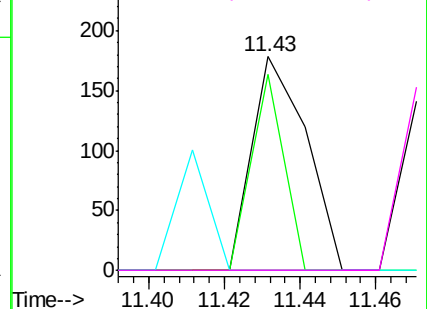
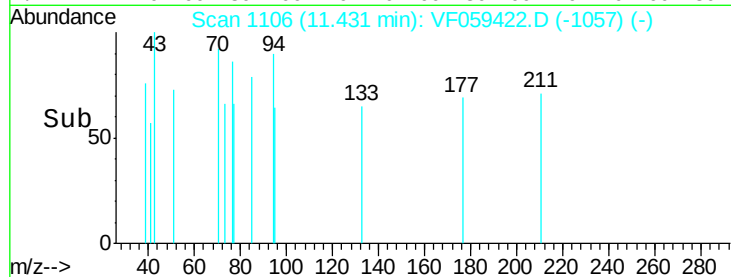


Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 70.00 (69.70 to 70.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 61.00 (60.70 to 61.70): VF0



#75

1,1,2,2-Tetrachloroethane

Concen: 5.027 ug/l

RT: 11.73 min Scan# 1136

Delta R.T. -0.05 min

Lab File: VF059422.D

Acq: 3 Jul 2018 19:53

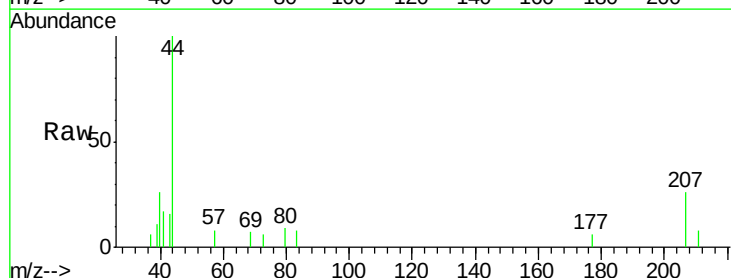
Tgt Ion: 83 Resp: 79

Ion Ratio Lower Upper

83 100

131 0.0 4.9 14.6#

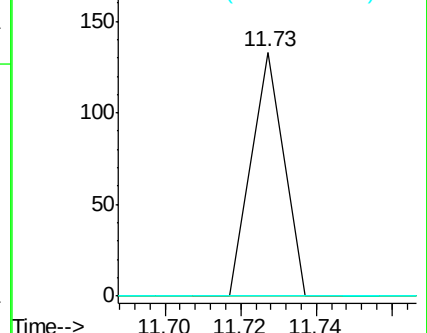
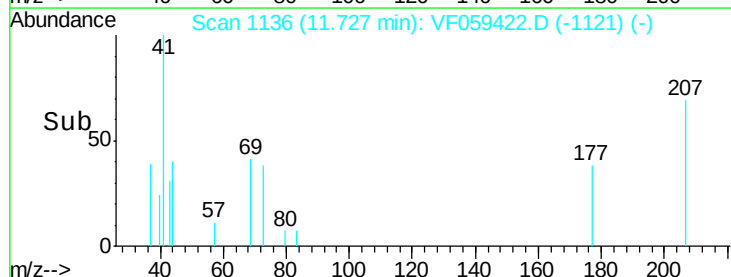
85 0.0 32.8 98.4#

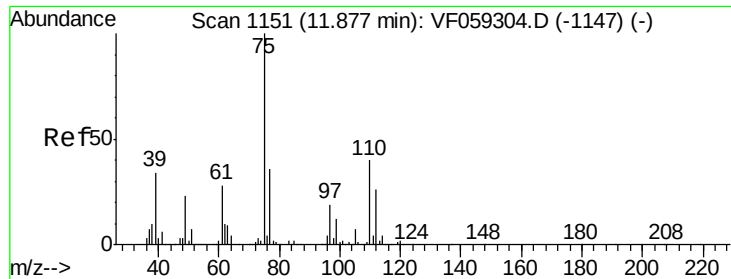


Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 131.00 (130.70 to 131.70): V

Ion 85.00 (84.70 to 85.70): VF0

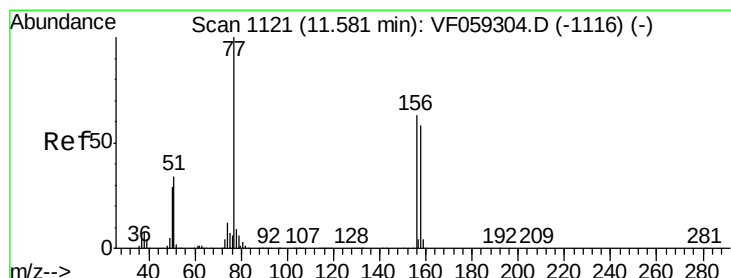
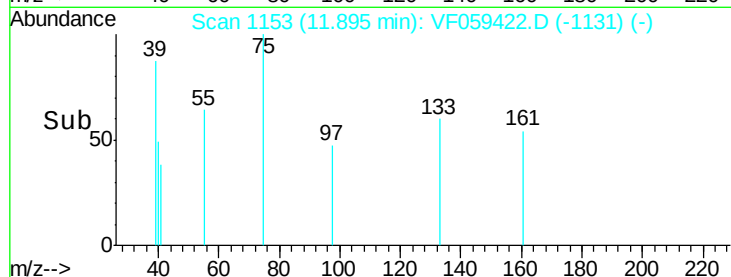
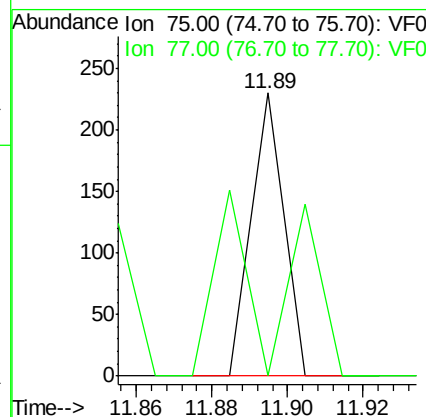
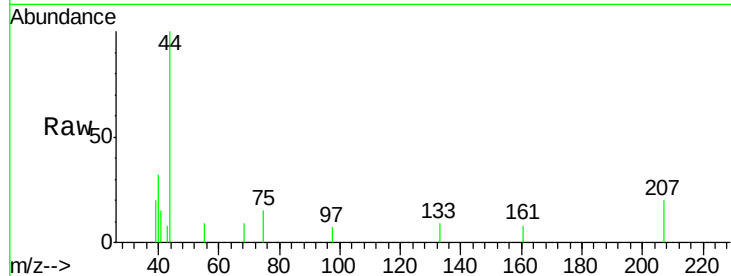




#76
 1,2,3-Trichloropropane
 Concen: 11.474 ug/l
 RT: 11.89 min Scan# 1153
 Delta R.T. 0.02 min
 Lab File: VF059422.D
 Acq: 3 Jul 2018 19:53

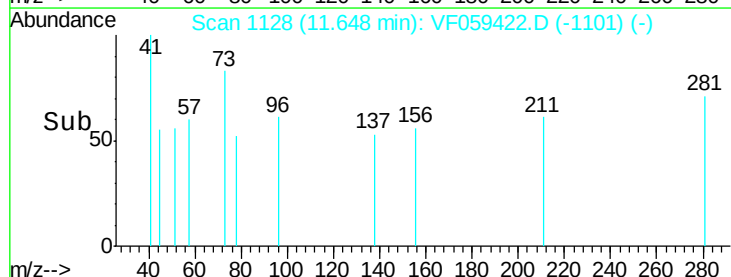
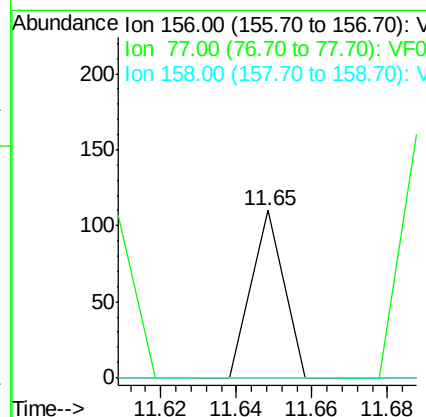
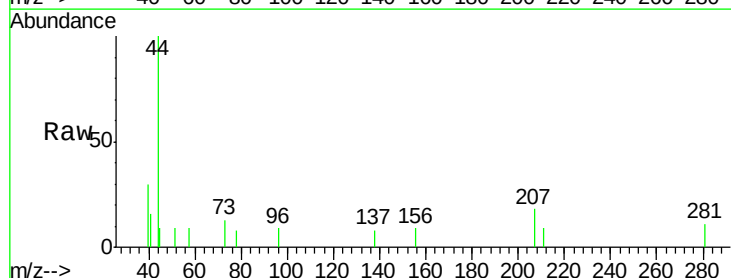
Instrument :
 MSVOA_F
 ClientSampled :
 GF-G-2

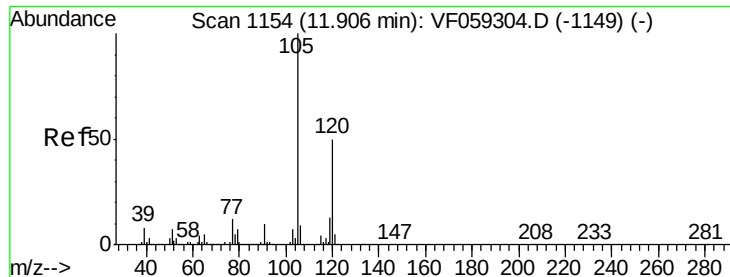
Tgt Ion: 75 Resp: 136
 Ion Ratio Lower Upper
 75 100
 77 0.0 18.0 54.0#



#77
 Bromobenzene
 Concen: 3.765 ug/l
 RT: 11.65 min Scan# 1128
 Delta R.T. 0.07 min
 Lab File: VF059422.D
 Acq: 3 Jul 2018 19:53

Tgt Ion: 156 Resp: 65
 Ion Ratio Lower Upper
 156 100
 77 0.0 79.7 238.9#
 158 0.0 46.2 138.6#





#80

1,3,5-Trimethylbenzene

Concen: 1.413 ug/l

RT: 11.81 min Scan# 1144

Delta R.T. -0.10 min

Lab File: VF059422.D

Acq: 3 Jul 2018 19:53

Instrument :

MSVOA_F

ClientSampled :

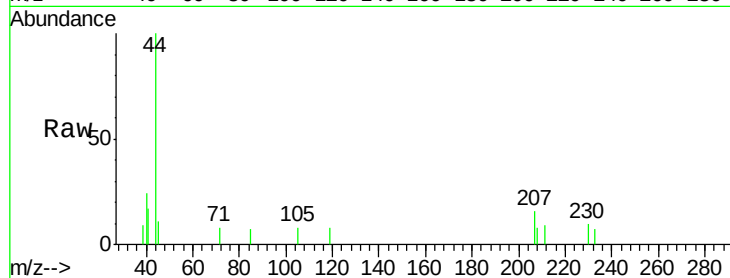
GF-G-2

Tgt Ion: 105 Resp: 77

Ion Ratio Lower Upper

105 100

120 0.0 24.9 74.7#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

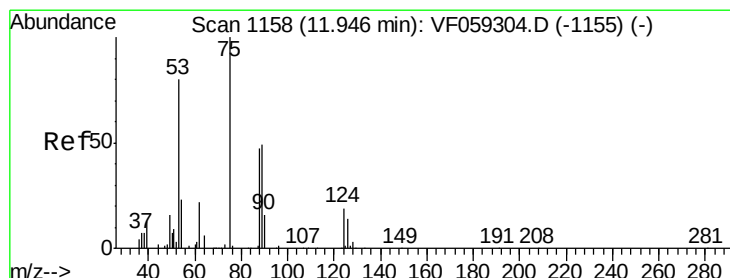
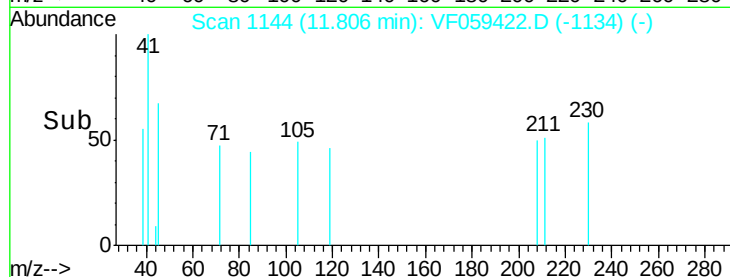
11.81

100

50

0

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 19.278 ug/l

RT: 11.89 min Scan# 1153

Delta R.T. -0.05 min

Lab File: VF059422.D

Acq: 3 Jul 2018 19:53

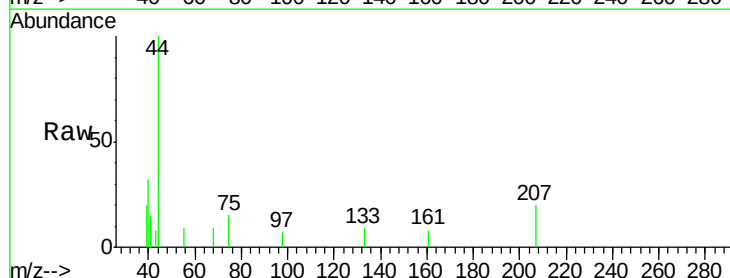
Tgt Ion: 75 Resp: 136

Ion Ratio Lower Upper

75 100

53 0.0 68.8 103.2#

89 0.0 42.0 63.0#



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 53.00 (52.70 to 53.70): VF0

Ion 89.00 (88.70 to 89.70): VF0

11.89

300

250

200

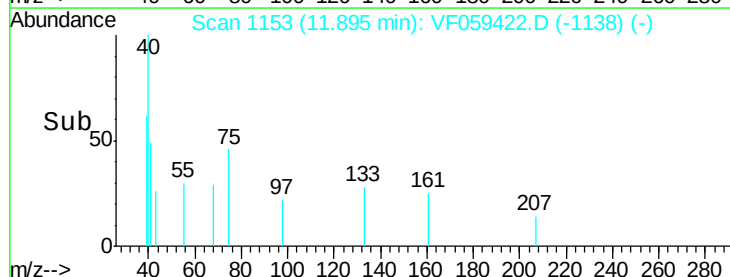
150

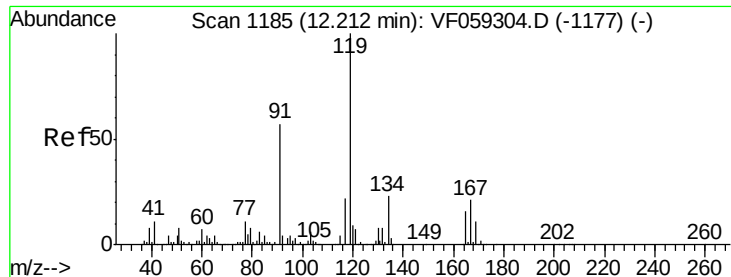
100

50

0

Time-->

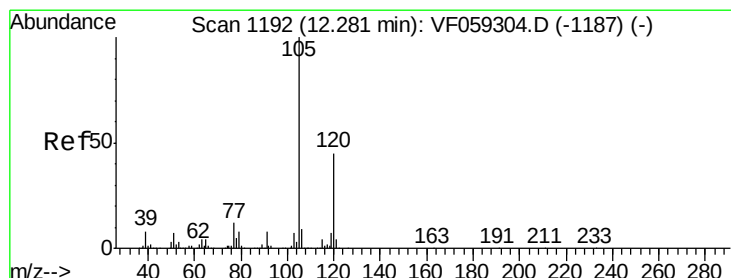
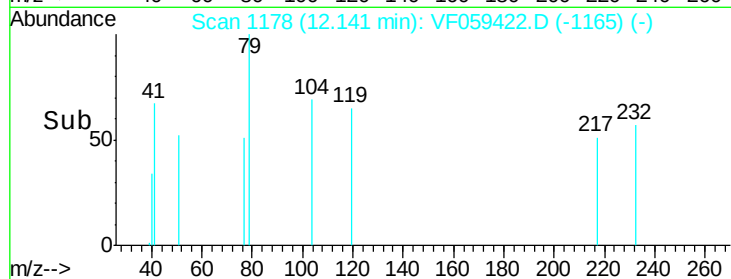
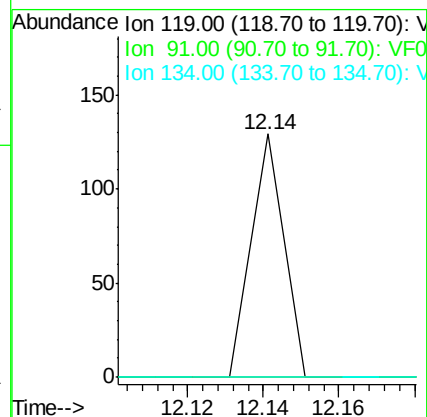
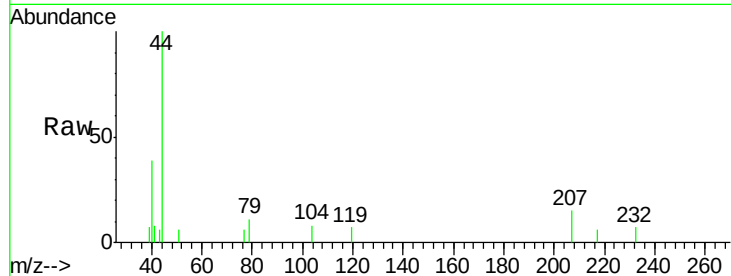




#83
 tert-Butylbenzene
 Concen: 1.394 ug/l
 RT: 12.14 min Scan# 1178
 Delta R.T. -0.07 min
 Lab File: VF059422.D
 Acq: 3 Jul 2018 19:53

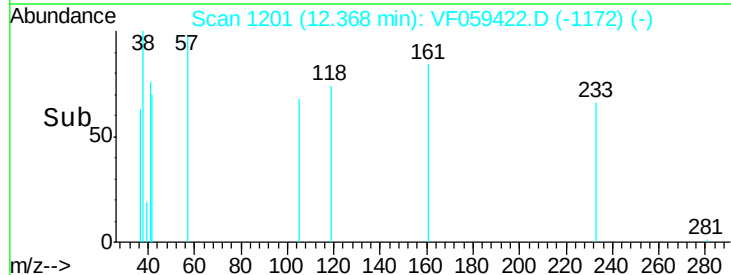
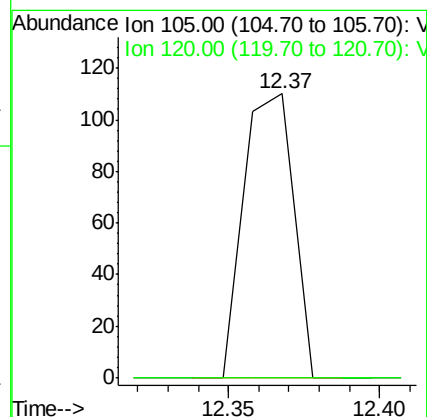
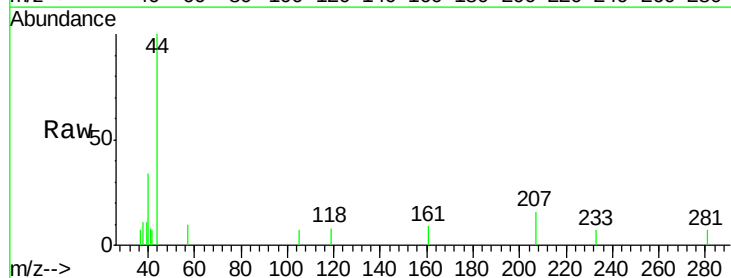
Instrument :
 MSVOA_F
 ClientSampled :
 GF-G-2

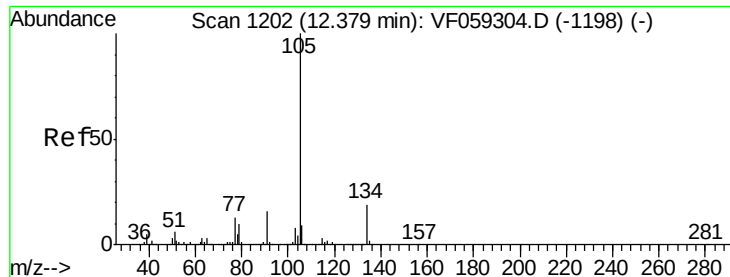
Tgt Ion:119 Resp: 76
 Ion Ratio Lower Upper
 119 100
 91 0.0 28.4 85.2#
 134 0.0 11.7 35.1#



#84
 1,2,4-Trimethylbenzene
 Concen: 2.195 ug/l
 RT: 12.37 min Scan# 1201
 Delta R.T. 0.09 min
 Lab File: VF059422.D
 Acq: 3 Jul 2018 19:53

Tgt Ion:105 Resp: 126
 Ion Ratio Lower Upper
 105 100
 120 0.0 22.8 68.4#





#85

sec-Butylbenzene

Concen: 1.744 ug/l

RT: 12.37 min Scan# 1201

Delta R.T. -0.01 min

Lab File: VF059422.D

Acq: 3 Jul 2018 19:53

Instrument :

MSVOA_F

ClientSampled :

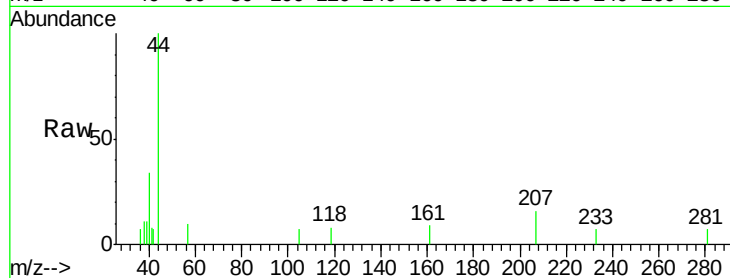
GF-G-2

Tgt Ion:105 Resp: 126

Ion Ratio Lower Upper

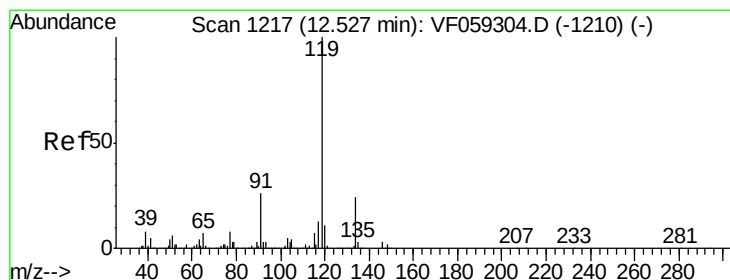
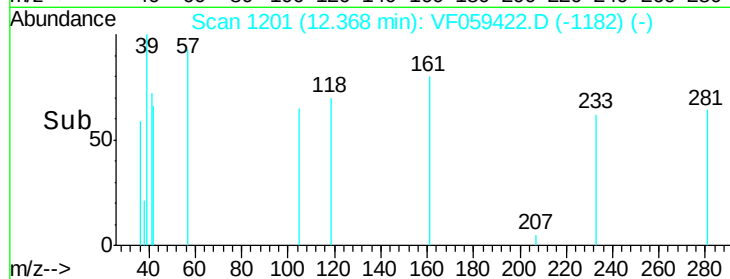
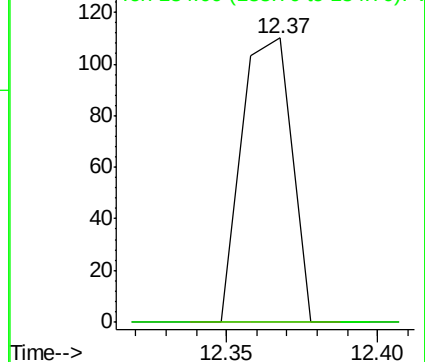
105 100

134 0.0 9.4 28.3#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 1.451 ug/l

RT: 12.42 min Scan# 1206

Delta R.T. -0.11 min

Lab File: VF059422.D

Acq: 3 Jul 2018 19:53

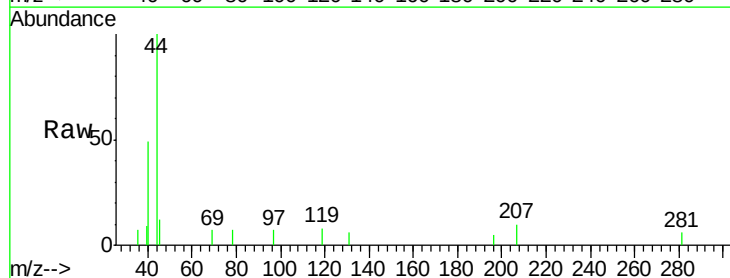
Tgt Ion:119 Resp: 88

Ion Ratio Lower Upper

119 100

134 0.0 12.2 36.4#

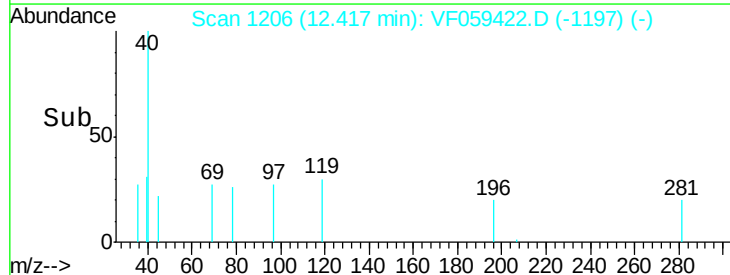
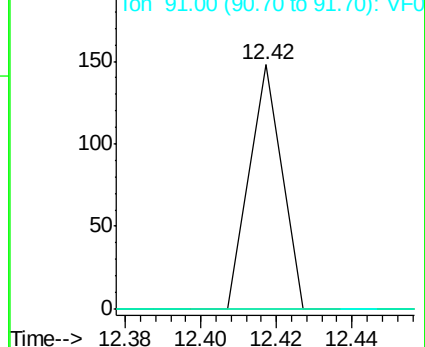
91 0.0 12.9 38.6#

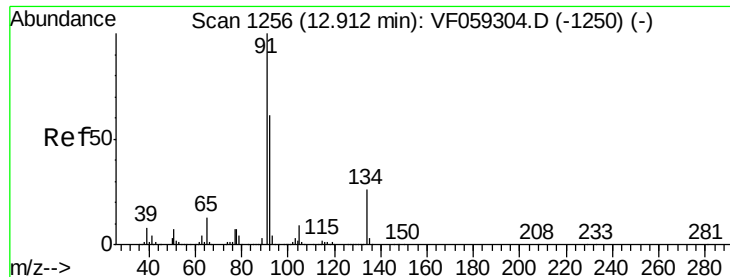


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): VF0





#89

n-Butylbenzene

Concen: 1.007 ug/l

RT: 13.01 min Scan# 1266

Delta R.T. 0.10 min

Lab File: VF059422.D

Acq: 3 Jul 2018 19:53

Instrument :

MSVOA_F

ClientSampled :

GF-G-2

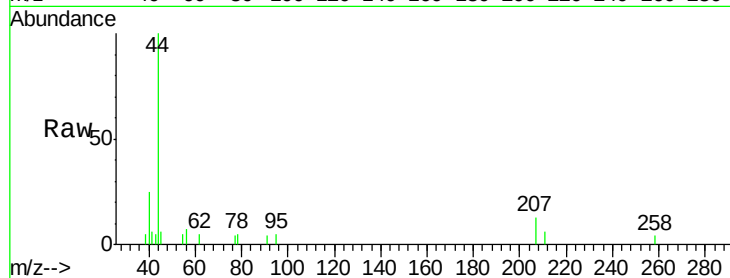
Tgt Ion: 91 Resp: 62

Ion Ratio Lower Upper

91 100

92 0.0 30.3 91.0#

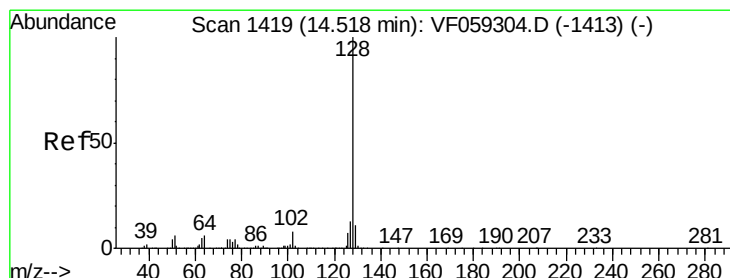
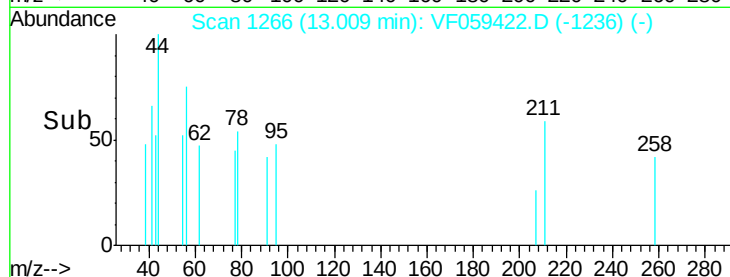
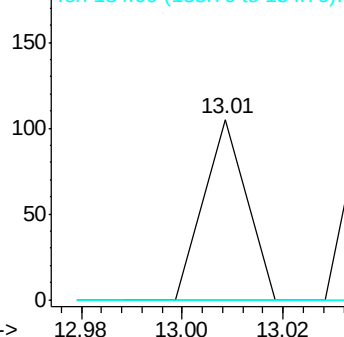
134 0.0 12.9 38.7#



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 92.00 (91.70 to 92.70): VF0

Ion 134.00 (133.70 to 134.70): V



#95

Naphthalene

Concen: 1.320 ug/l

RT: 14.50 min Scan# 1417

Delta R.T. -0.02 min

Lab File: VF059422.D

Acq: 3 Jul 2018 19:53

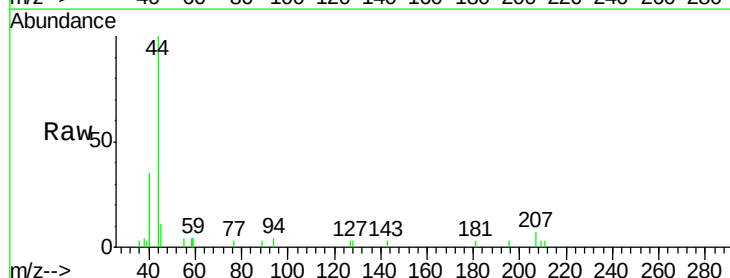
Tgt Ion: 128 Resp: 64

Ion Ratio Lower Upper

128 100

127 100.9 10.1 15.1#

129 0.0 8.8 13.2#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

