

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF042419\
 Data File : VF062284.D
 Acq On : 24 Apr 2019 16:46
 Operator : FY/SY
 Sample : VIBLK
 Misc : 5.00µ/5mL/MSVOA F/SOIL
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VIBLK

Quant Time: Apr 25 07:37:17 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82F042419S.M
 Quant Title : SW846 8260
 QLast Update : Thu Apr 25 07:31:32 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.06	168	503489	50.00	ug/l	-0.01
34) 1,4-Difluorobenzene	5.79	114	700737	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.92	117	516212	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.62	152	336912	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.04	65	197430	48.36	ug/l	0.00
Spiked Amount			Recovery	=	96.72%	
35) Dibromofluoromethane	4.32	113	266727	50.01	ug/l	0.00
Spiked Amount			Recovery	=	100.02%	
50) Toluene-d8	7.71	98	556630	43.71	ug/l	-0.01
Spiked Amount			Recovery	=	87.42%	
62) 4-Bromofluorobenzene	11.50	95	263005	49.00	ug/l	0.00
Spiked Amount			Recovery	=	98.00%	

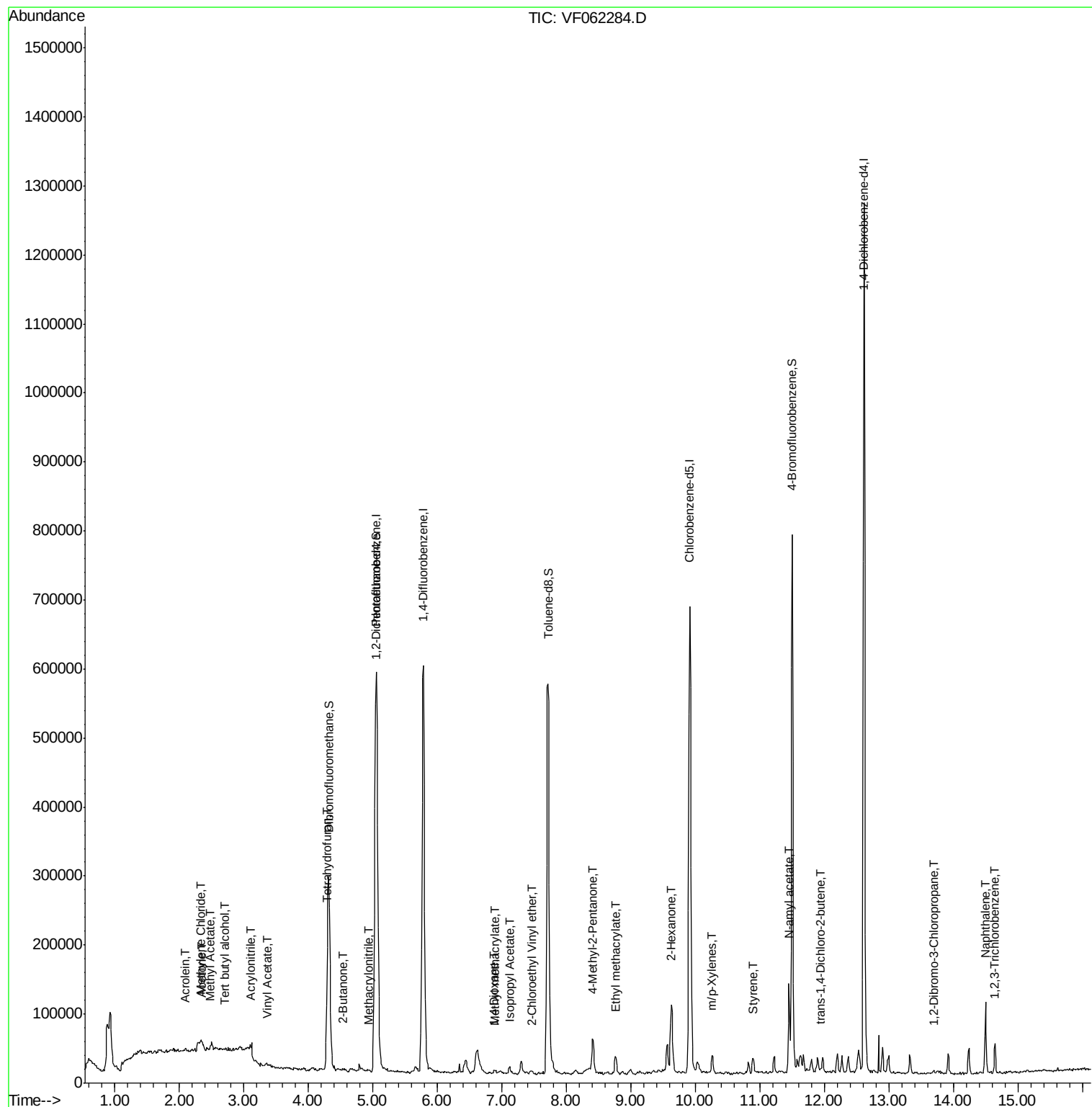
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	2.70	59	2178	8.960	ug/l	100
13) Acrolein	2.10	56	1618	10.050	ug/l #	72
15) Acrylonitrile	3.09	53	4353	6.192	ug/l #	75
16) Acetone	2.36	43	9505	10.420	ug/l #	76
18) Methyl Acetate	2.48	43	6877	3.041	ug/l	99
20) Methylene Chloride	2.33	84	11671	2.022	ug/l	86
23) Vinyl Acetate	3.35	43	7685	1.392	ug/l #	85
25) 2-Butanone	4.53	43	6560	4.538	ug/l #	85
29) Tetrahydrofuran	4.29	42	3606	5.723	ug/l #	82
41) Methacrylonitrile	4.95	41	1948	1.276	ug/l #	48
43) Isopropyl Acetate	7.13	43	13370	4.639	ug/l	99
48) Methyl methacrylate	6.88	41	2525	1.277	ug/l #	87
49) 1,4-Dioxane	6.87	88	787	34.770	ug/l #	24
51) 4-Methyl-2-Pentanone	8.41	43	47360	21.475	ug/l	98
56) Ethyl methacrylate	8.76	69	15282	5.432	ug/l #	88
58) 2-Chloroethyl Vinyl ether	7.45	63	1129	1.299	ug/l #	79
59) 2-Hexanone	9.63	43	88911	41.343	ug/l	97
68) m/p-Xylenes	10.27	106	9873	1.574	ug/l	91
70) Styrene	10.90	104	11336	1.113	ug/l	94
74) N-amyl acetate	11.45	43	81451	14.915	ug/l	98
81) trans-1,4-Dichloro-2-buten	11.95	75	2826	1.875	ug/l #	44
92) 1,2-Dibromo-3-Chloropropan	13.69	75	917	1.254	ug/l	66
95) Naphthalene	14.50	128	63650	4.768	ug/l	100
96) 1,2,3-Trichlorobenzene	14.65	180	9379	1.133	ug/l	99

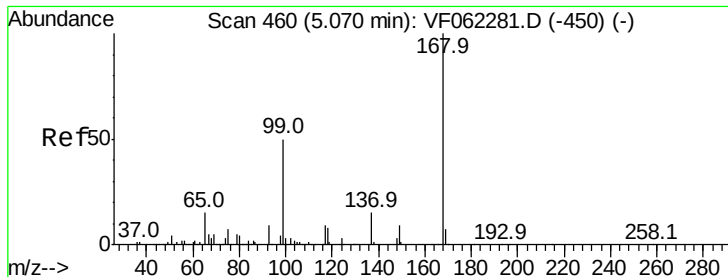
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF042419\
Data File : VF062284.D
Acq On : 24 Apr 2019 16:46
Operator : FY/SY
Sample : VIBLK
Misc : 5.00µL/MSVOA F/SOIL
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_F
ClientSampleId :
VIBLK

Quant Time: Apr 25 07:37:17 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82F042419S.M
Quant Title : SW846 8260
QLast Update : Thu Apr 25 07:31:32 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.06 min Scan# 459

Delta R.T. -0.01 min

Lab File: VF062284.D

Acq: 24 Apr 2019 16:46

Instrument :

MSVOA_F

ClientSampleId :

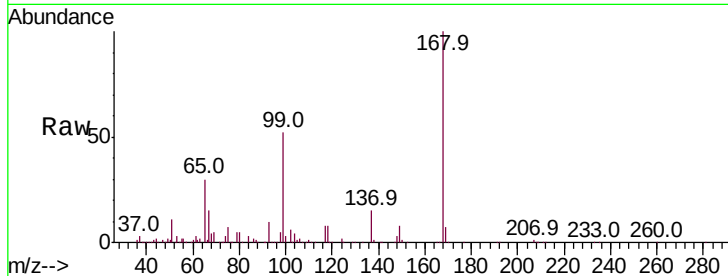
VIBLK

Tot Ion:168 Resp: 503489

Ion Ratio Lower Upper

168 100

99 51.9 40.0 60.0



Abundance Ion 167.90 (167.60 to 168.60): VF0

Ion 98.90 (98.60 to 99.60): VF0

5.06

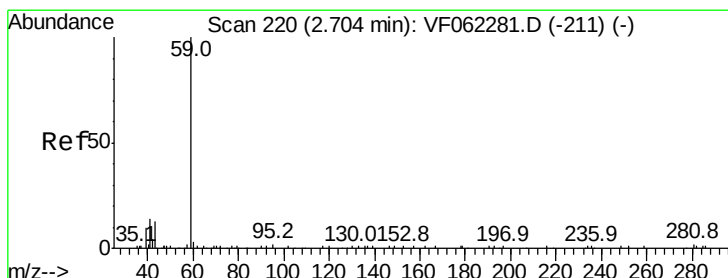
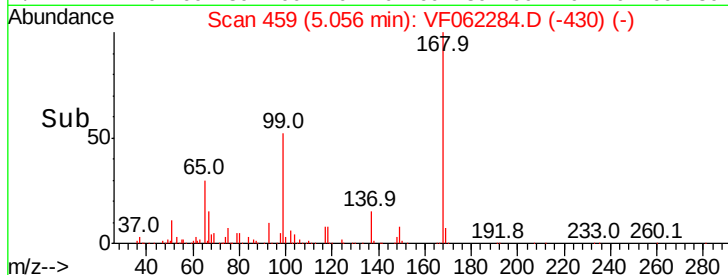
150000

100000

50000

0

Time-->



#11

Tert butyl alcohol

Concen: 8.960 ug/l

RT: 2.70 min Scan# 220

Delta R.T. -0.00 min

Lab File: VF062284.D

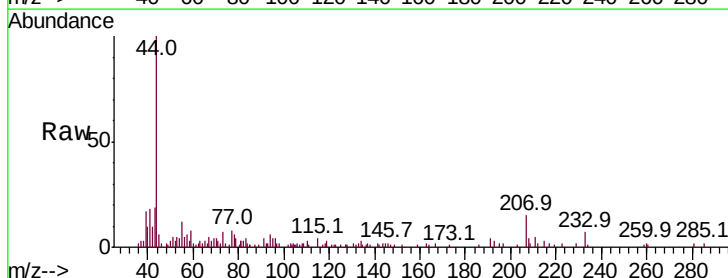
Acq: 24 Apr 2019 16:46

Tgt Ion: 59 Resp: 2178

Ion Ratio Lower Upper

59 100

57 10.9 8.8 13.2



Abundance Ion 59.00 (58.70 to 59.70): VF0

Ion 57.00 (56.70 to 57.70): VF0

2.70

800

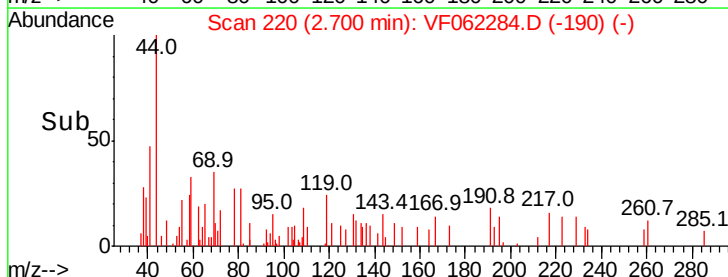
600

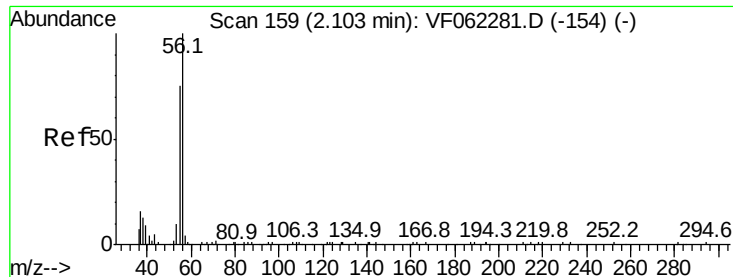
400

200

0

Time-->





#13

Acrolein

Concen: 10.050 ug/l

RT: 2.10 min Scan# 159

Delta R.T. -0.00 min

Lab File: VF062284.D

Acq: 24 Apr 2019 16:46

Instrument :

MSVOA_F

ClientSampleId :

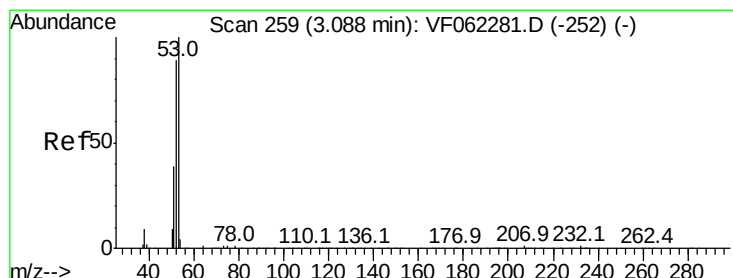
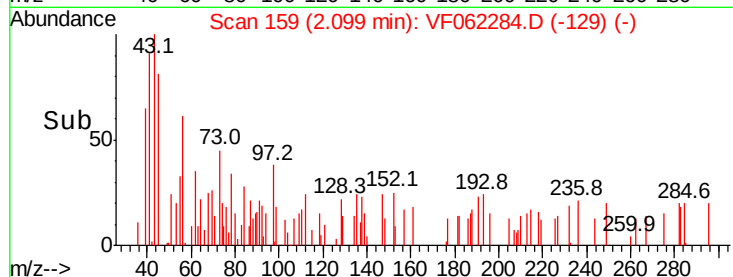
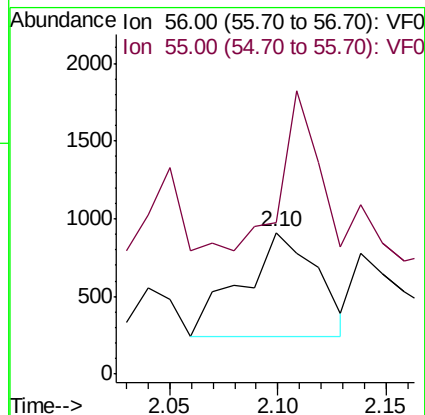
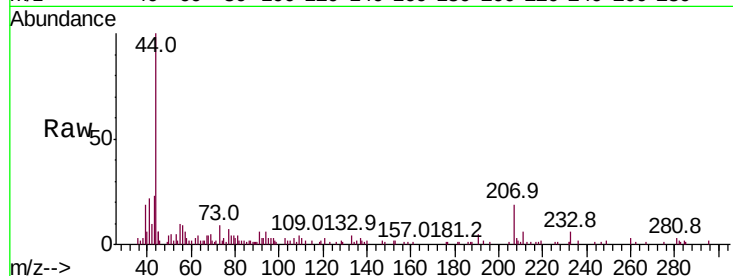
VIBLK

Tot Ion: 56 Resp: 1618

Ion Ratio Lower Upper

56 100

55 102.0 62.3 93.5#



#15

Acrylonitrile

Concen: 6.192 ug/l

RT: 3.09 min Scan# 260

Delta R.T. 0.01 min

Lab File: VF062284.D

Acq: 24 Apr 2019 16:46

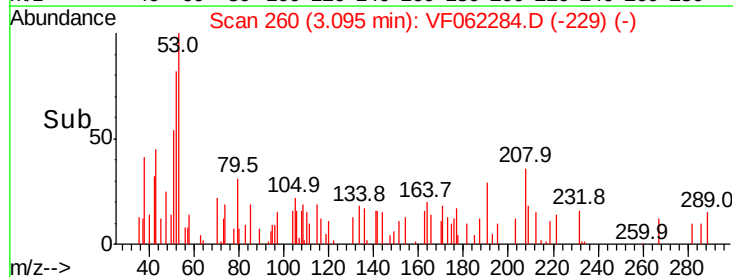
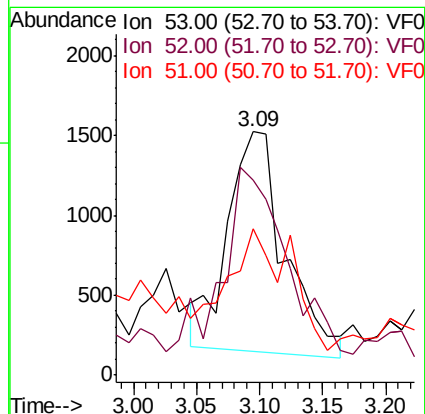
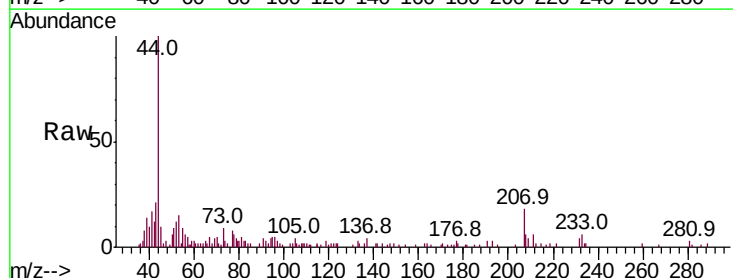
Tgt Ion: 53 Resp: 4353

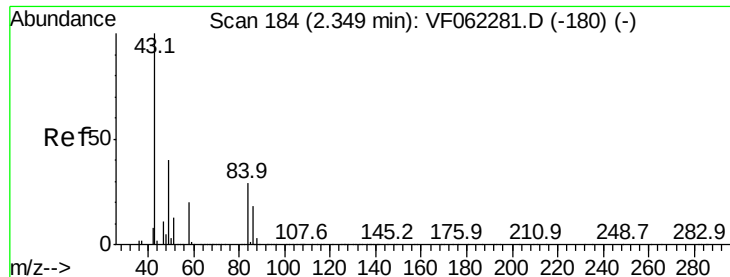
Ion Ratio Lower Upper

53 100

52 107.5 70.6 105.8#

51 61.0 32.6 48.8#





#16

Acetone

Concen: 10.420 ug/l

RT: 2.36 min Scan# 185

Delta R.T. 0.01 min

Lab File: VF062284.D

Acq: 24 Apr 2019 16:46

Instrument :

MSVOA_F

ClientSampleId :

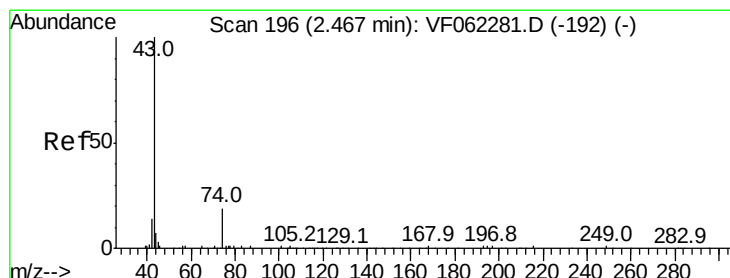
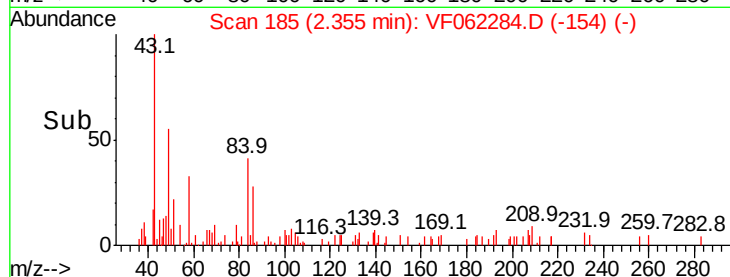
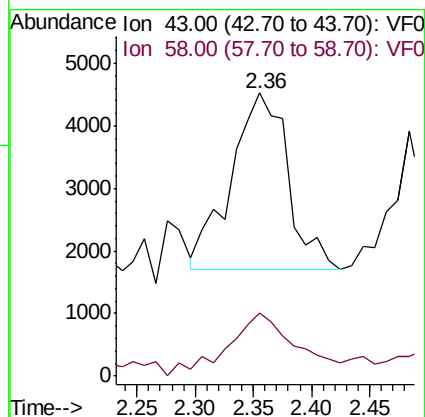
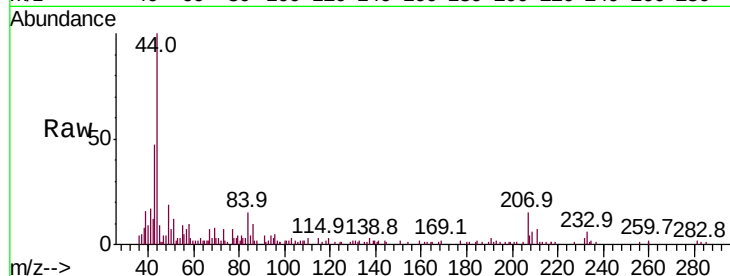
VIBLK

Tot Ion: 43 Resp: 9505

Ion Ratio Lower Upper

43 100

58 31.8 16.4 24.6#



#18

Methyl Acetate

Concen: 3.041 ug/l

RT: 2.48 min Scan# 198

Delta R.T. 0.02 min

Lab File: VF062284.D

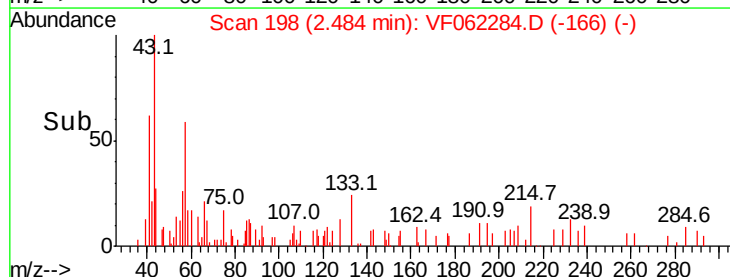
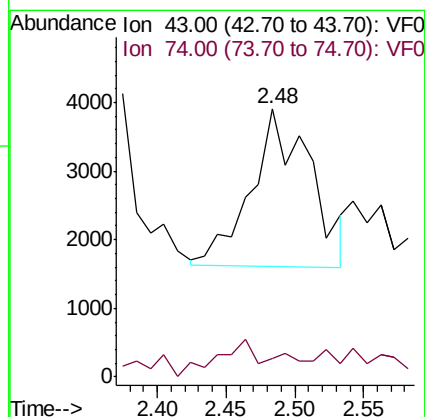
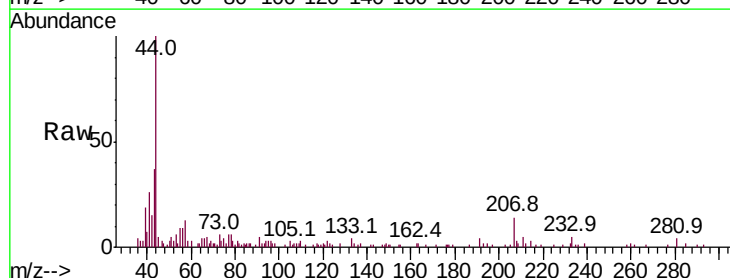
Acq: 24 Apr 2019 16:46

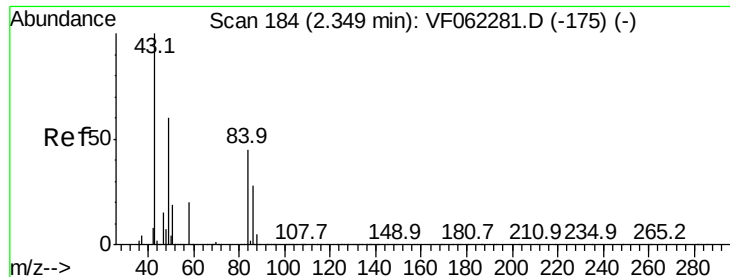
Tgt Ion: 43 Resp: 6877

Ion Ratio Lower Upper

43 100

74 17.4 14.4 21.6

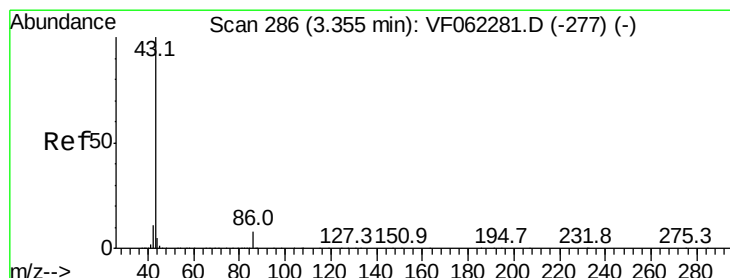
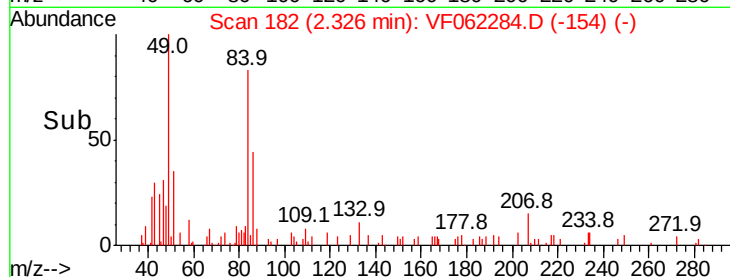
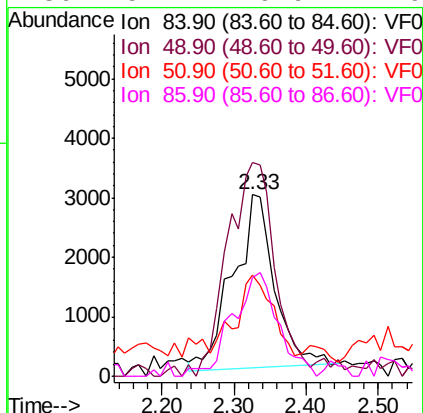
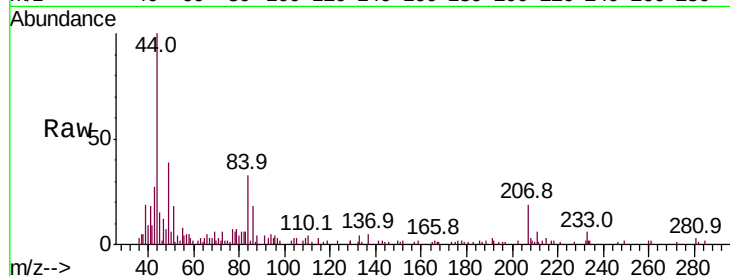




#20
Methvlene Chloride
Concen: 2.022 ug/l
RT: 2.33 min Scan# 182
Delta R.T. -0.02 min
Lab File: VF062284.D
Acq: 24 Apr 2019 16:46

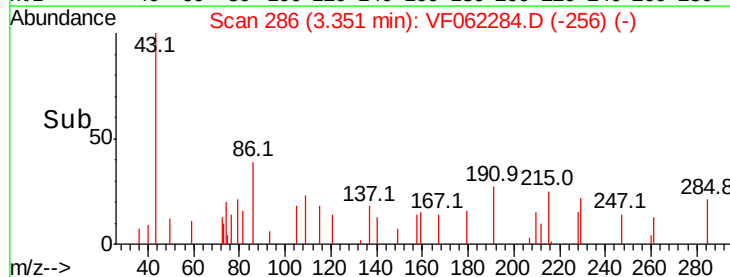
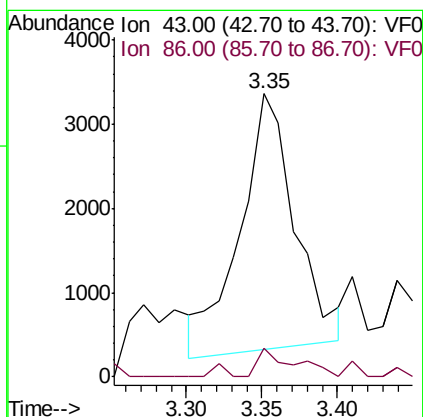
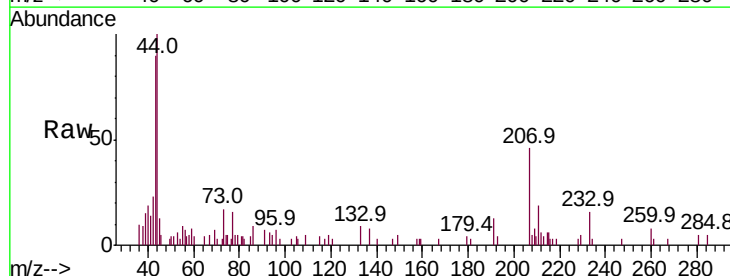
Instrument :
MSVOA_F
ClientSampleId :
VIBLK

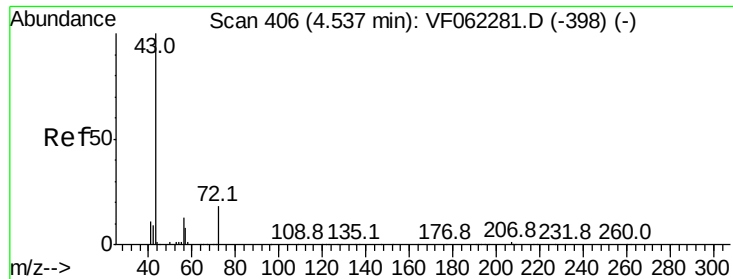
Tot Ion:	84	Resp:	11671
Ion	Ratio	Lower	Upper
84	100		
49	119.5	112.1	168.1
51	51.2	35.9	53.9
86	54.2	49.9	74.9



#23
Vinyl Acetate
Concen: 1.392 ug/l
RT: 3.35 min Scan# 286
Delta R.T. -0.00 min
Lab File: VF062284.D
Acq: 24 Apr 2019 16:46

Tgt Ion:	43	Resp:	7685
Ion	Ratio	Lower	Upper
43	100		
86	12.8	6.0	9.0#





#25

2-Butanone

Concen: 4.538 ug/l

RT: 4.53 min Scan# 406

Delta R.T. -0.00 min

Lab File: VF062284.D

Acq: 24 Apr 2019 16:46

Instrument :

MSVOA_F

ClientSampled :

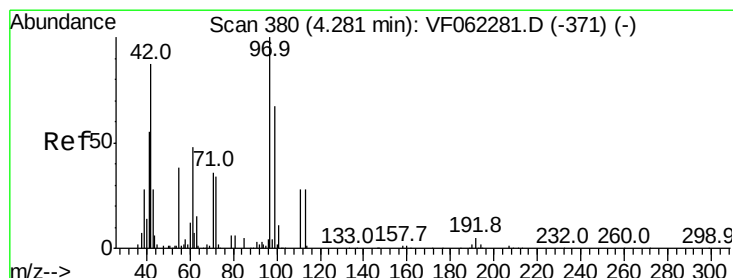
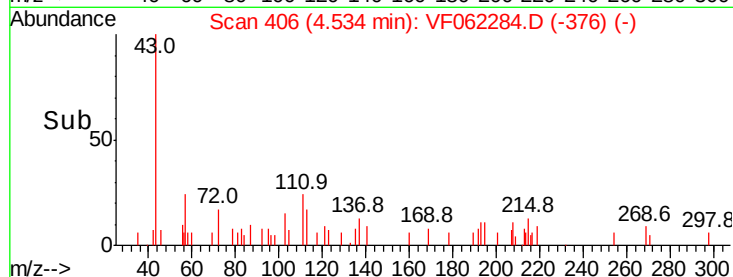
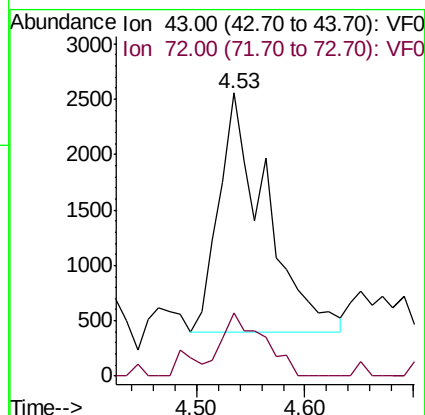
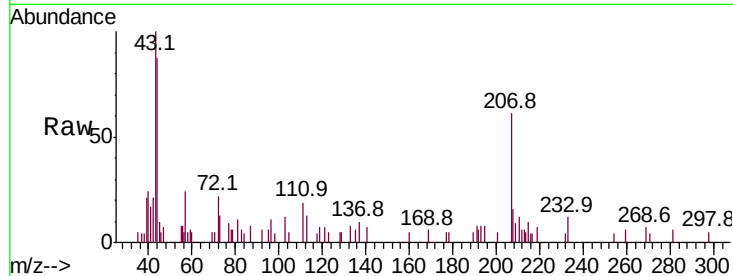
VIBLK

Tot Ion: 43 Resp: 6560

Ion Ratio Lower Upper

43 100

72 26.4 15.8 23.6#



#29

Tetrahydrofuran

Concen: 5.723 ug/l

RT: 4.29 min Scan# 381

Delta R.T. 0.01 min

Lab File: VF062284.D

Acq: 24 Apr 2019 16:46

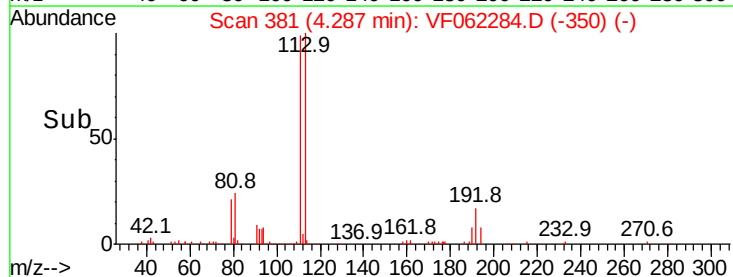
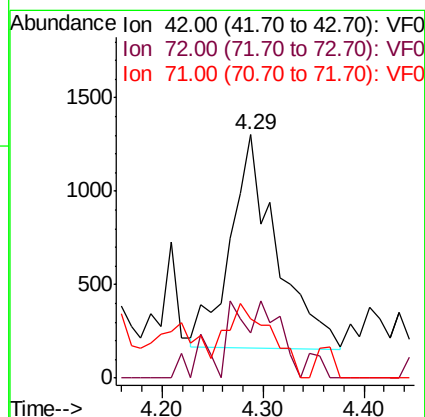
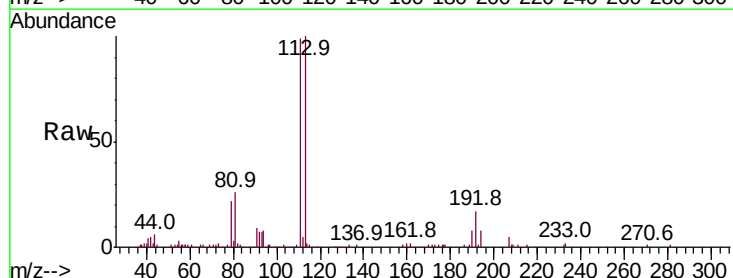
Tgt Ion: 42 Resp: 3606

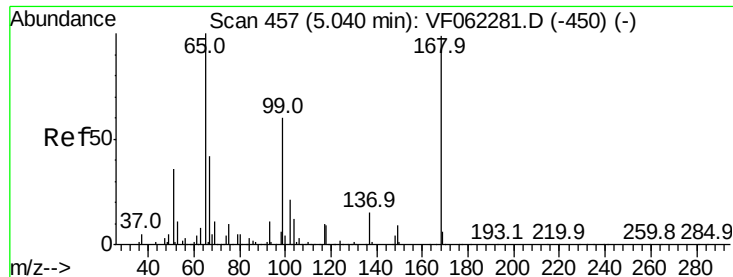
Ion Ratio Lower Upper

42 100

72 19.2 29.3 43.9#

71 34.6 31.2 46.8

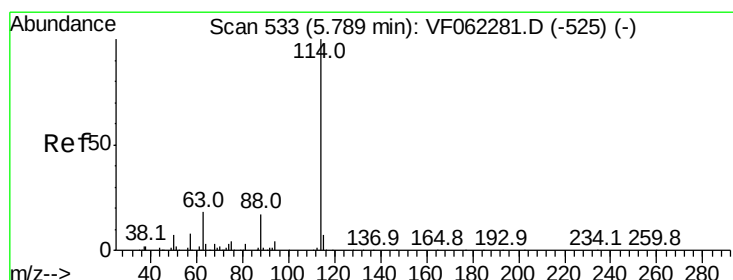
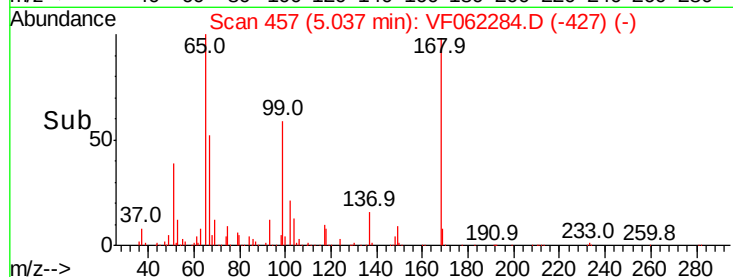
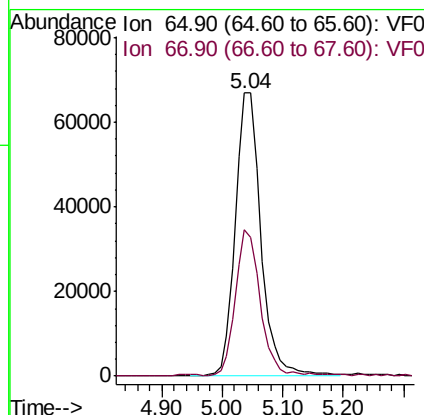
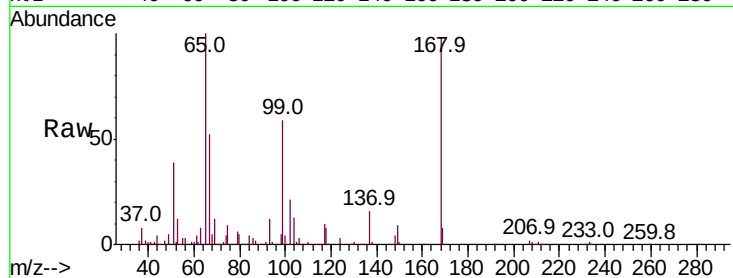




#33
 1,2-Dichloroethane-d4
 Concen: 48.357 ug/l
 RT: 5.04 min Scan# 457
 Delta R.T. -0.00 min
 Lab File: VF062284.D
 Acq: 24 Apr 2019 16:46

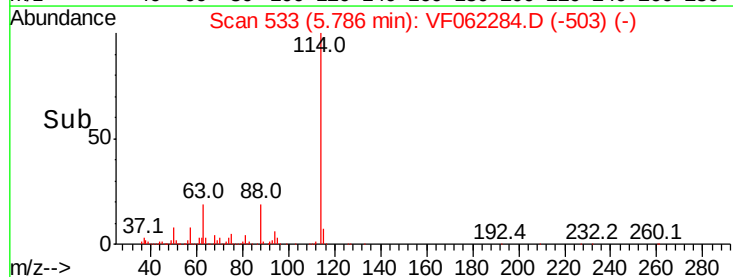
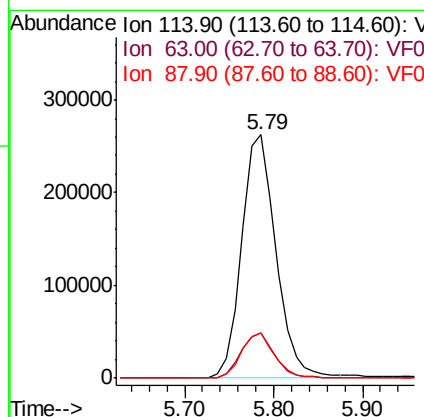
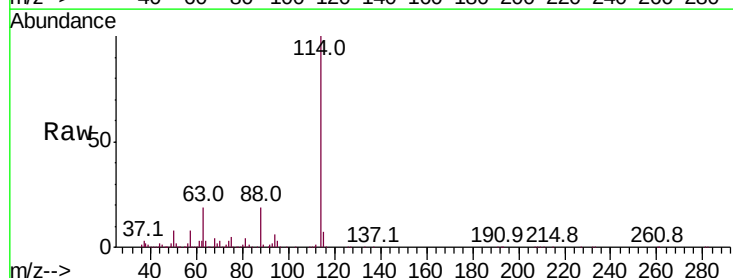
Instrument :
 MSVOA_F
 ClientSampleId :
 VIBLK

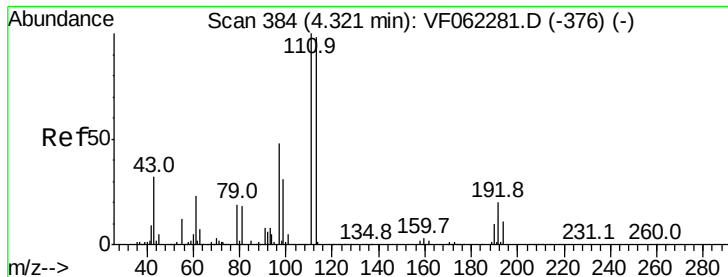
Tot Ion: 65 Resp: 197430
 Ion Ratio Lower Upper
 65 100
 67 49.4 0.0 98.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.79 min Scan# 533
 Delta R.T. -0.00 min
 Lab File: VF062284.D
 Acq: 24 Apr 2019 16:46

Tgt Ion: 114 Resp: 700737
 Ion Ratio Lower Upper
 114 100
 63 18.6 0.0 35.6
 88 18.6 0.0 34.6





#35

Dibromofluoromethane

Concen: 50.014 ug/l

RT: 4.32 min Scan# 384

Delta R.T. -0.00 min

Lab File: VF062284.D

Acq: 24 Apr 2019 16:46

Instrument :

MSVOA_F

ClientSampleId :

VIBLK

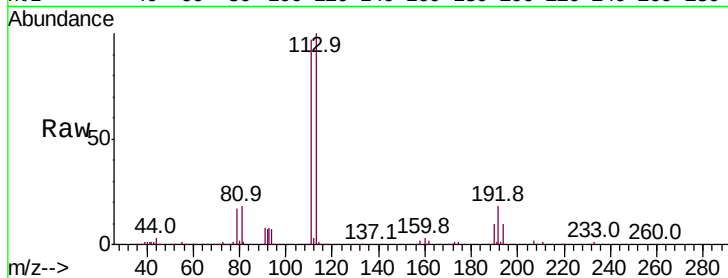
Tot Ion:113 Resp: 266727

Ion Ratio Lower Upper

113 100

111 98.2 81.4 122.2

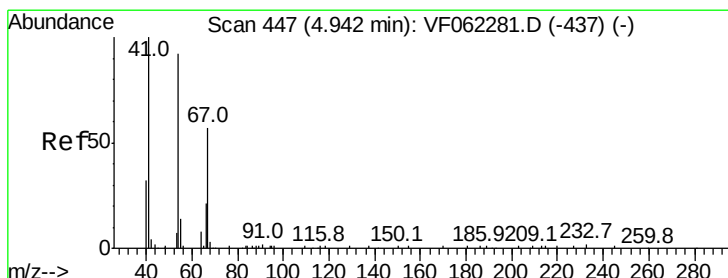
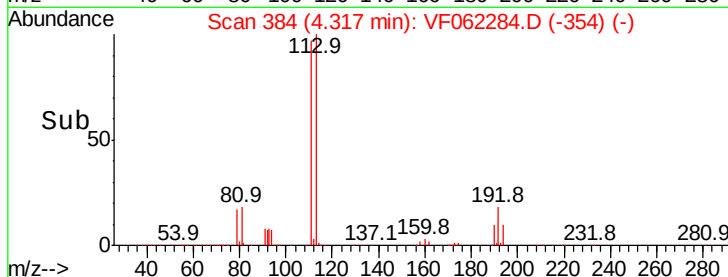
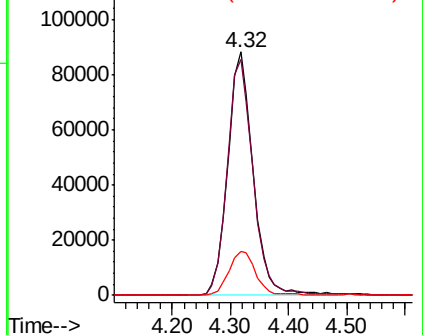
192 18.9 17.0 25.4



Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#41

Methacrylonitrile

Concen: 1.276 ug/l

RT: 4.95 min Scan# 448

Delta R.T. 0.01 min

Lab File: VF062284.D

Acq: 24 Apr 2019 16:46

Tgt Ion: 41 Resp: 1948

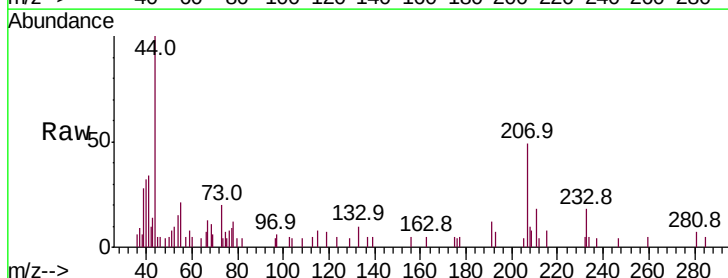
Ion Ratio Lower Upper

41 100

39 55.7 47.3 70.9

67 0.0 41.3 61.9#

52 0.0 49.4 74.2#

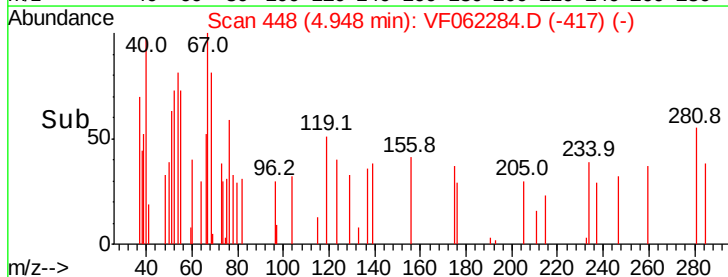
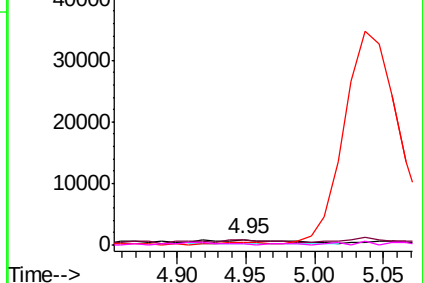


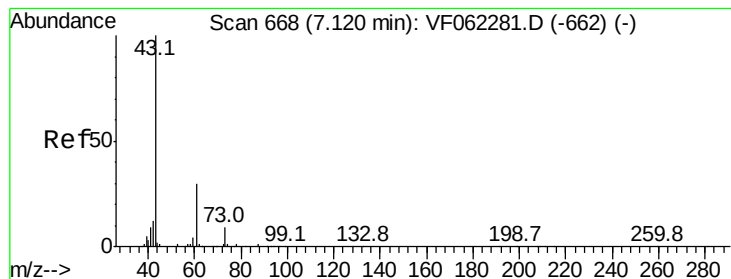
Abundance Ion 41.00 (40.70 to 41.70): VF0

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





#43

Isopropyl Acetate

Concen: 4.639 ug/l

RT: 7.13 min Scan# 669

Delta R.T. 0.01 min

Lab File: VF062284.D

Acq: 24 Apr 2019 16:46

Instrument :

MSVOA_F

ClientSampleId :

VIBLK

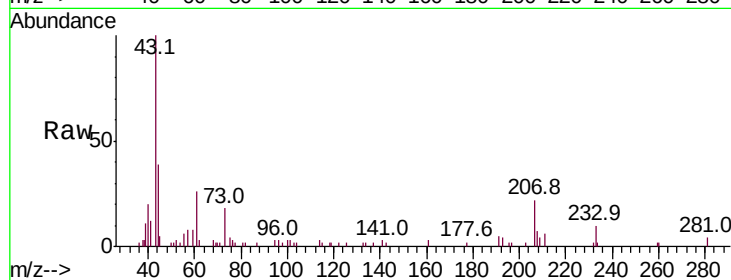
Tot Ion: 43 Resp: 13370

Ion Ratio Lower Upper

43 100

61 30.4 23.8 35.6

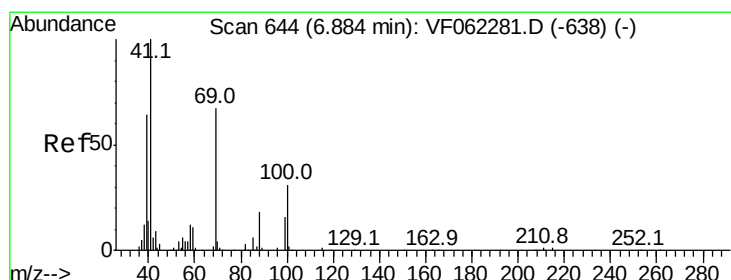
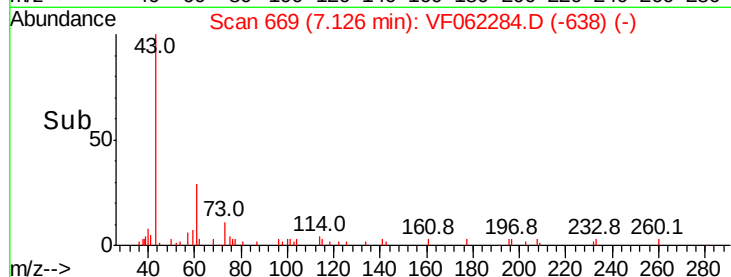
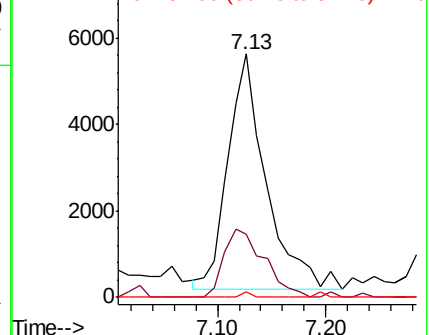
87 0.5 0.5 0.7



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



#48

Methyl methacrylate

Concen: 1.277 ug/l

RT: 6.88 min Scan# 644

Delta R.T. -0.00 min

Lab File: VF062284.D

Acq: 24 Apr 2019 16:46

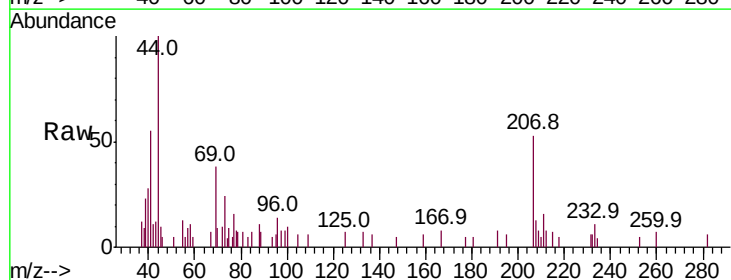
Tgt Ion: 41 Resp: 2525

Ion Ratio Lower Upper

41 100

69 63.1 53.4 80.2

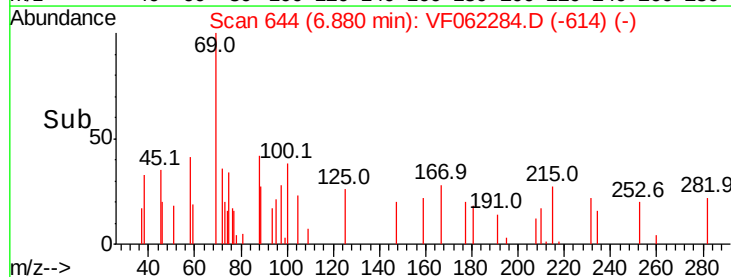
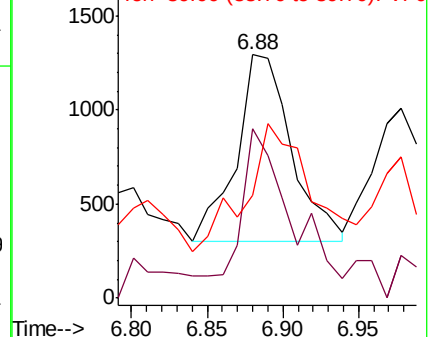
39 81.0 50.9 76.3#

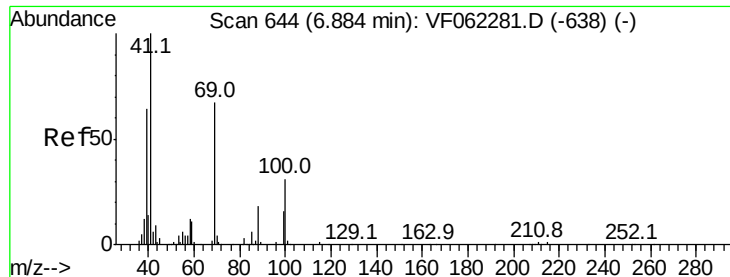


Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 69.00 (68.70 to 69.70): VF0

Ion 39.00 (38.70 to 39.70): VF0





#49

1,4-Dioxane

Concen: 34.770 ug/l

RT: 6.87 min Scan# 643

Delta R.T. -0.01 min

Lab File: VF062284.D

Acq: 24 Apr 2019 16:46

Instrument :

MSVOA_F

ClientSampleId :

VIBLK

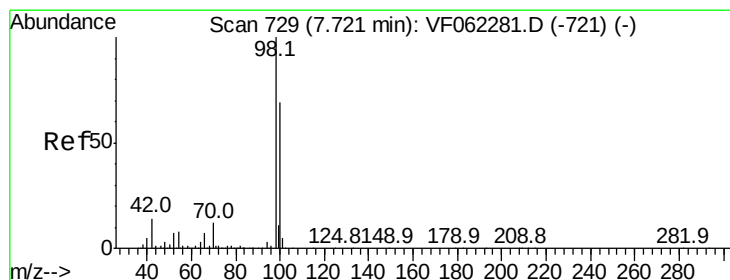
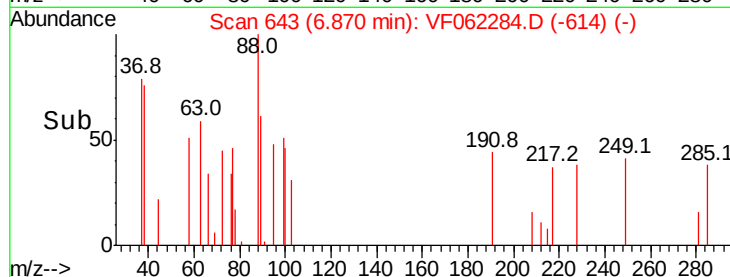
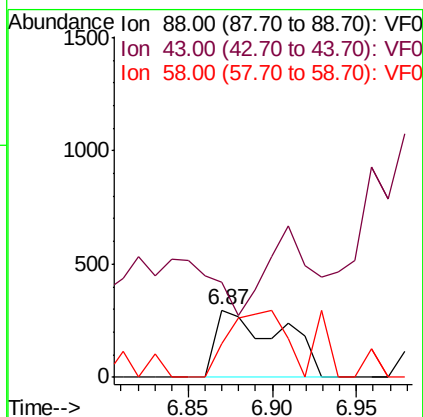
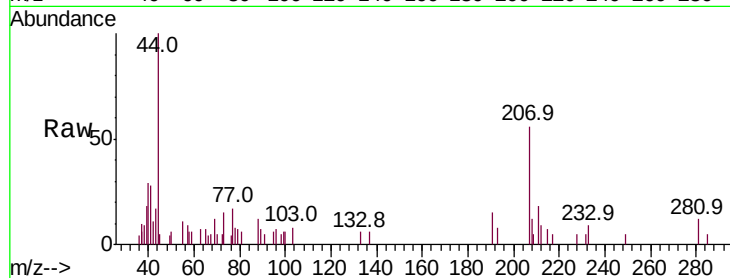
Tot Ion: 88 Resp: 787

Ion Ratio Lower Upper

88 100

43 0.0 34.2 51.4#

58 0.0 50.7 76.1#



#50

Toluene-d8

Concen: 43.710 ug/l

RT: 7.71 min Scan# 728

Delta R.T. -0.01 min

Lab File: VF062284.D

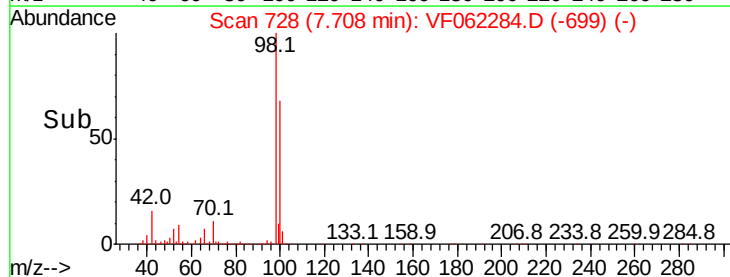
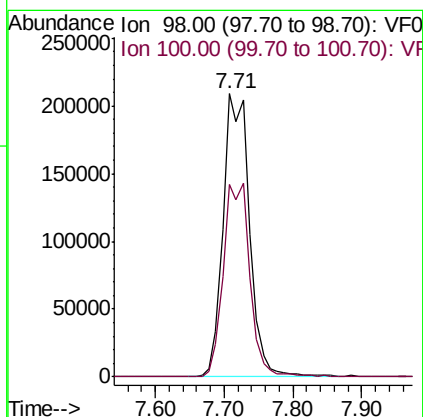
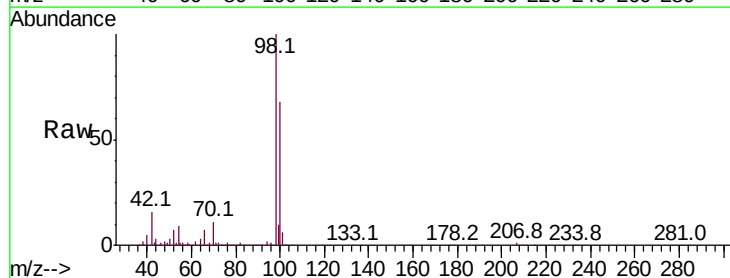
Acq: 24 Apr 2019 16:46

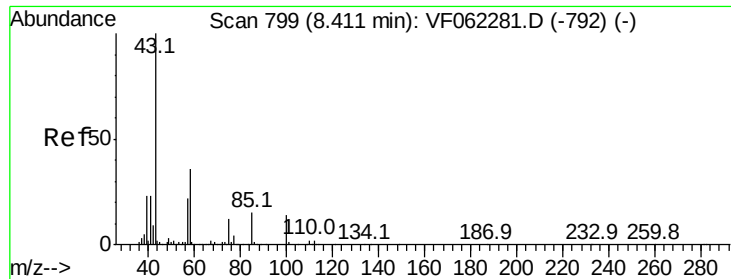
Tgt Ion: 98 Resp: 556630

Ion Ratio Lower Upper

98 100

100 68.9 54.4 81.6





#51

4-Methyl-2-Pentanone

Concen: 21.475 ug/l

RT: 8.41 min Scan# 799

Delta R.T. -0.00 min

Lab File: VF062284.D

Acq: 24 Apr 2019 16:46

Instrument :

MSVOA_F

ClientSampleId :

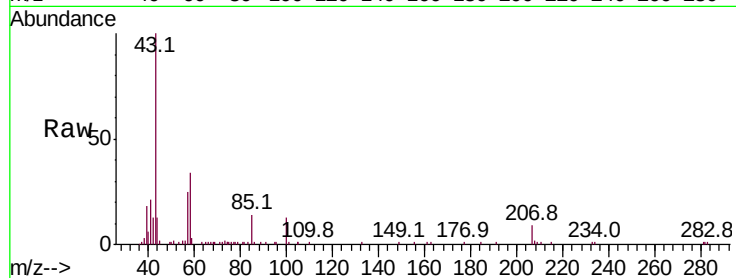
VIBLK

Tot Ion: 43 Resp: 47360

Ion Ratio Lower Upper

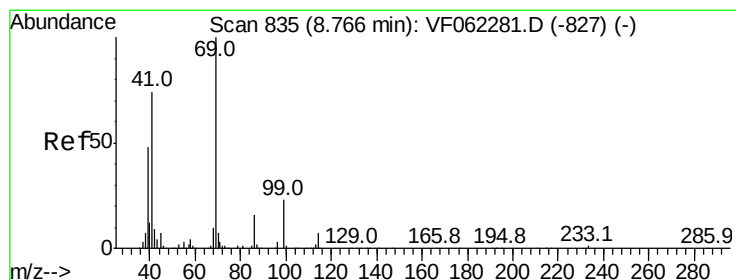
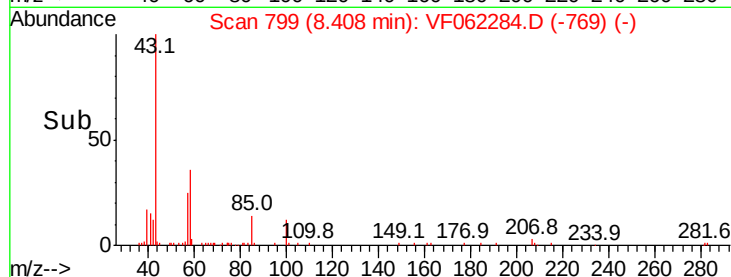
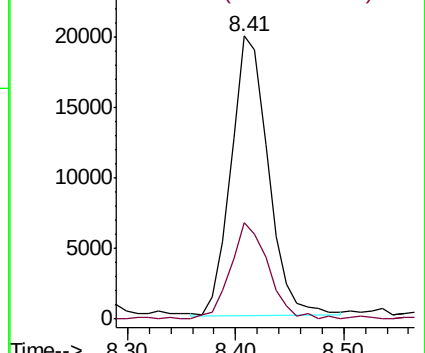
43 100

58 35.2 29.1 43.7



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#56

Ethyl methacrylate

Concen: 5.432 ug/l

RT: 8.76 min Scan# 835

Delta R.T. -0.00 min

Lab File: VF062284.D

Acq: 24 Apr 2019 16:46

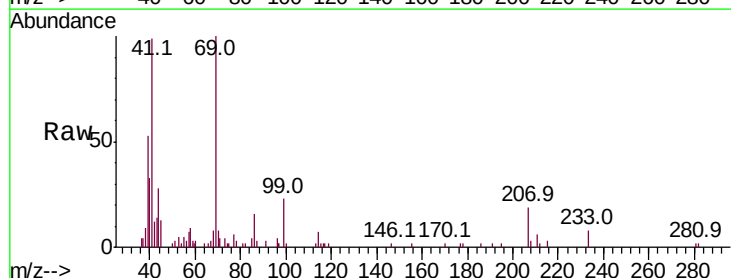
Tgt Ion: 69 Resp: 15282

Ion Ratio Lower Upper

69 100

41 85.5 61.5 92.3

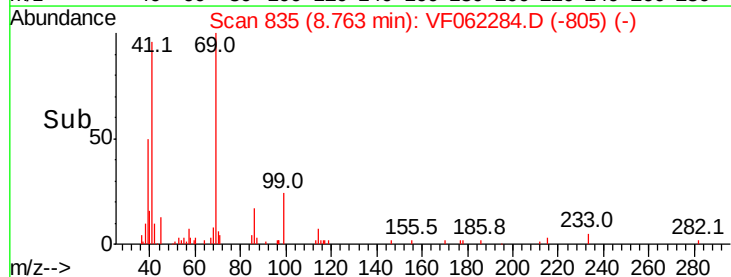
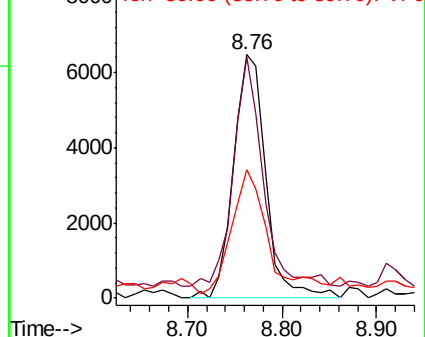
39 57.6 37.9 56.9#

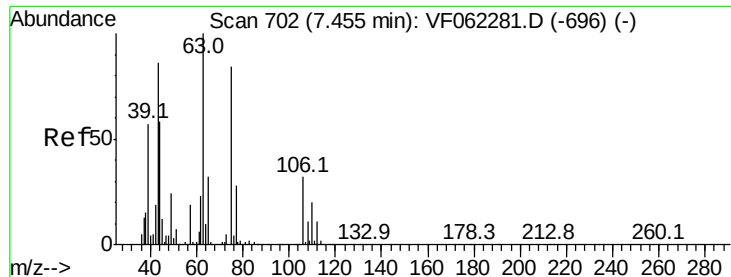


Abundance Ion 69.00 (68.70 to 69.70): VF0

Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0





#58

2-Chloroethyl Vinyl ether

Concen: 1.299 ug/l

RT: 7.45 min Scan# 702

Delta R.T. -0.00 min

Lab File: VF062284.D

Acq: 24 Apr 2019 16:46

Instrument :

MSVOA_F

ClientSampled :

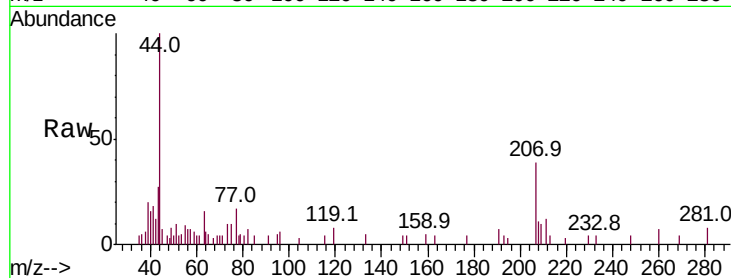
VIBLK

Tot Ion: 63 Resp: 1129

Ion Ratio Lower Upper

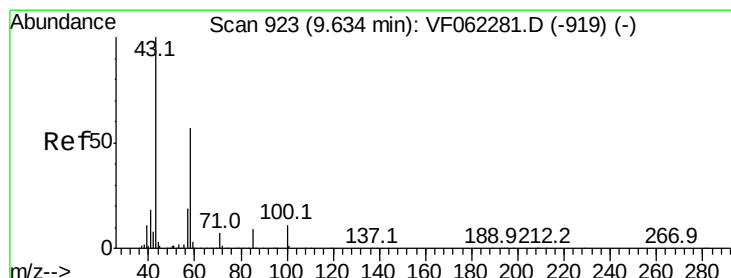
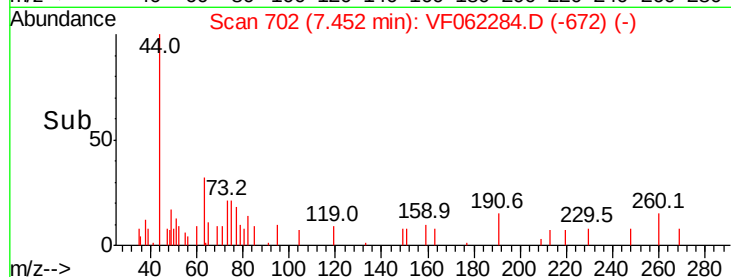
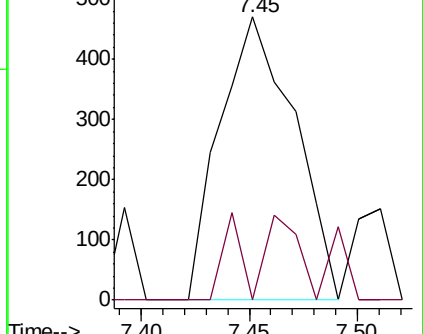
63 100

106 19.6 24.7 37.1#



Abundance Ion 62.90 (62.60 to 63.60): VF0

Ion 105.90 (105.60 to 106.60): V



#59

2-Hexanone

Concen: 41.343 ug/l

RT: 9.63 min Scan# 923

Delta R.T. -0.00 min

Lab File: VF062284.D

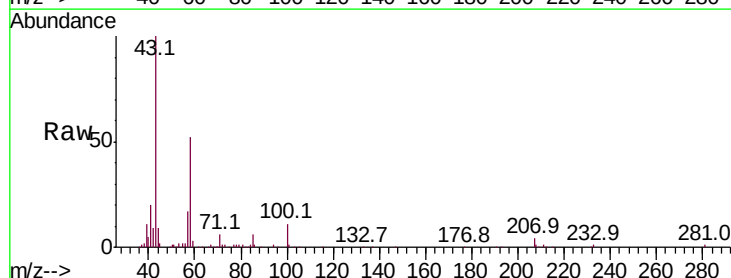
Acq: 24 Apr 2019 16:46

Tgt Ion: 43 Resp: 88911

Ion Ratio Lower Upper

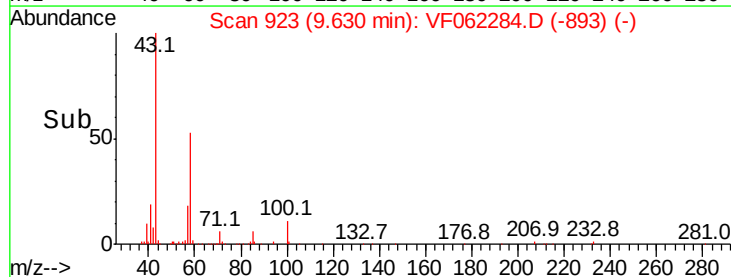
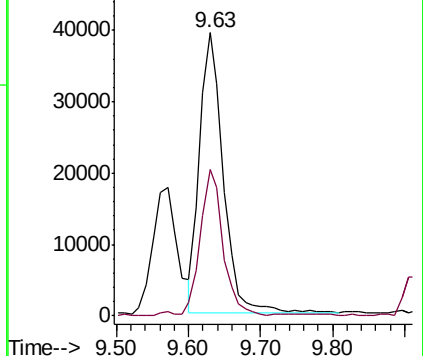
43 100

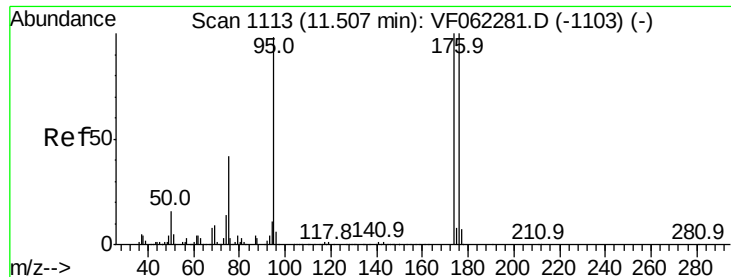
58 51.8 24.9 74.7



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0





#62

4-Bromofluorobenzene

Concen: 49.003 ug/l

RT: 11.50 min Scan# 1113

Delta R.T. -0.00 min

Lab File: VF062284.D

Acq: 24 Apr 2019 16:46

Instrument :

MSVOA_F

ClientSampleId :

VIBLK

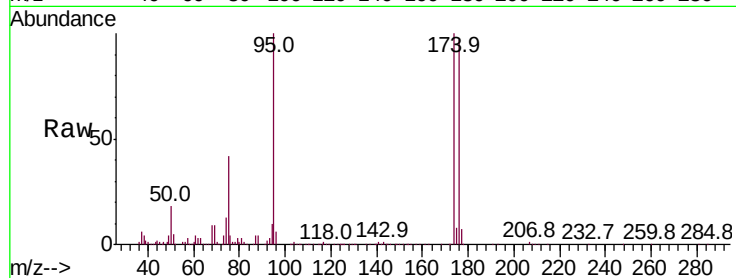
Tot Ion: 95 Resp: 263005

Ion Ratio Lower Upper

95 100

174 95.2 0.0 185.2

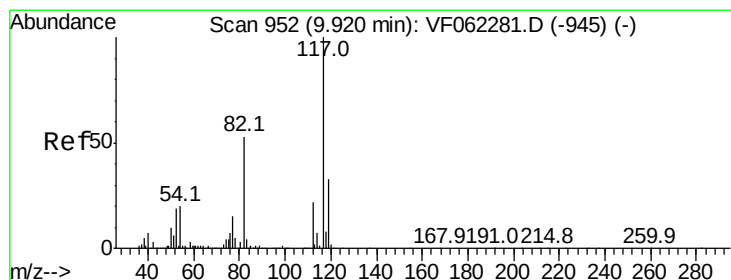
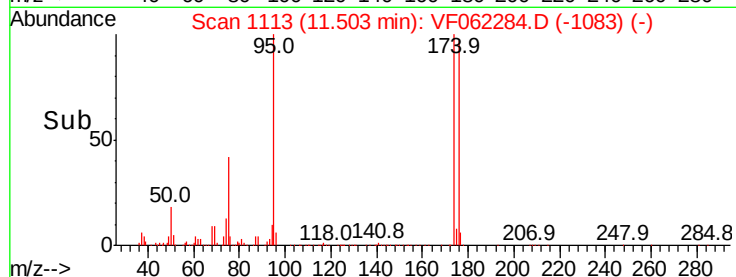
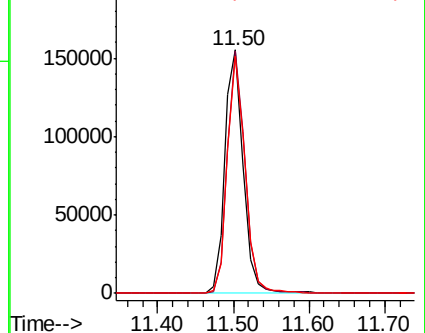
176 94.5 0.0 184.8



Abundance Ion 94.90 (94.60 to 95.60): VF0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.92 min Scan# 952

Delta R.T. -0.00 min

Lab File: VF062284.D

Acq: 24 Apr 2019 16:46

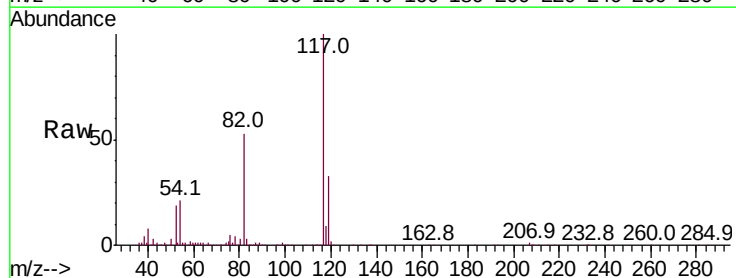
Tgt Ion: 117 Resp: 516212

Ion Ratio Lower Upper

117 100

82 53.0 42.6 64.0

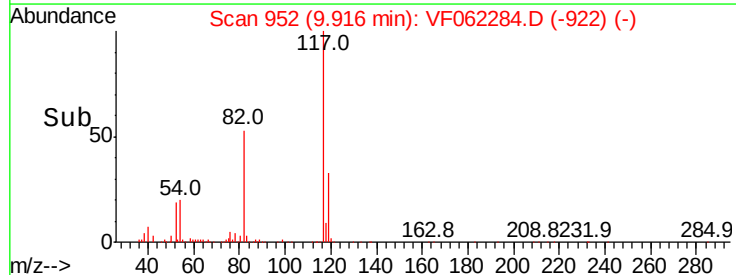
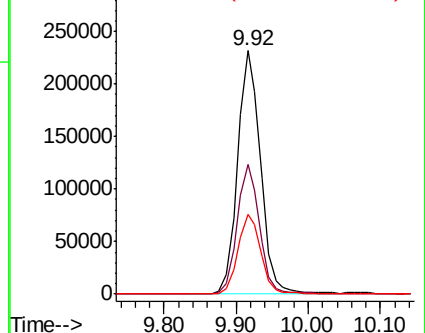
119 32.7 26.1 39.1

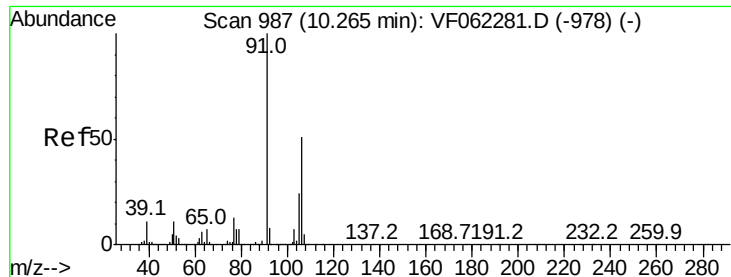


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VF0

Ion 118.90 (118.60 to 119.60): V

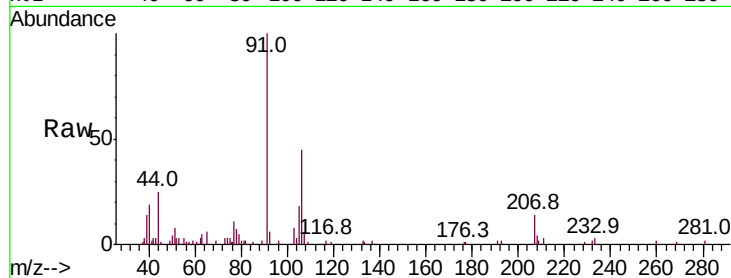




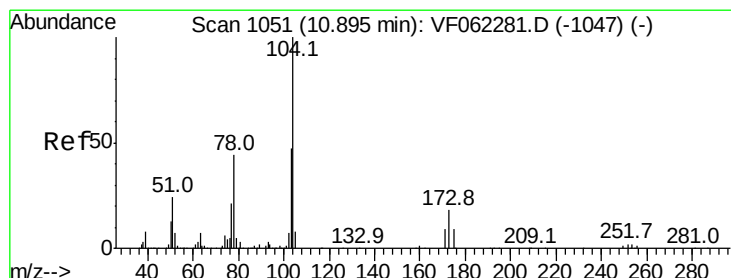
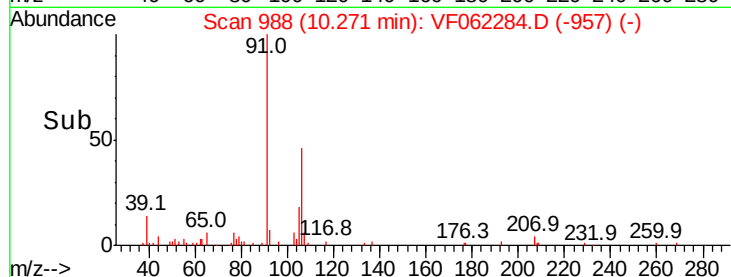
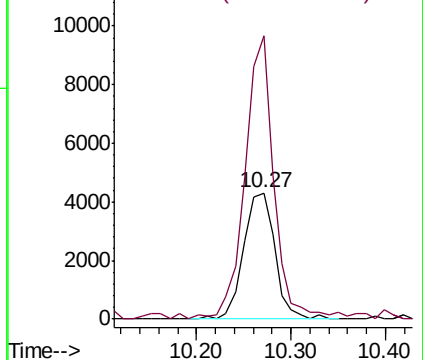
#68
m/p-Xylenes
Concen: 1.574 ug/l
RT: 10.27 min Scan# 988
Delta R.T. 0.01 min
Lab File: VF062284.D
Acq: 24 Apr 2019 16:46

Instrument :
MSVOA_F
ClientSampled :
VIBLK

Tot Ion:106 Resp: 9873
Ion Ratio Lower Upper
106 100
91 211.4 158.3 237.5

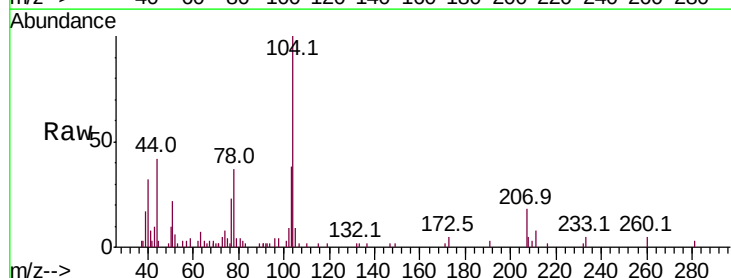


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VF0

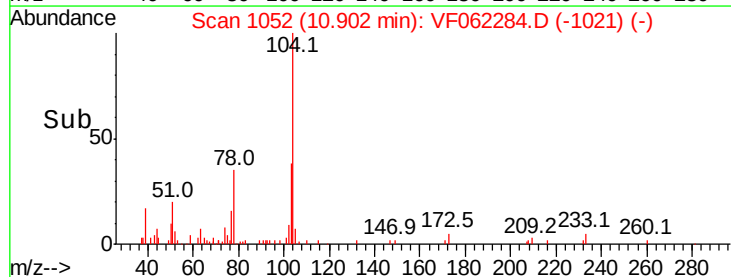
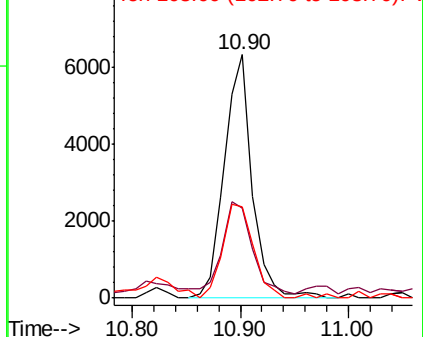


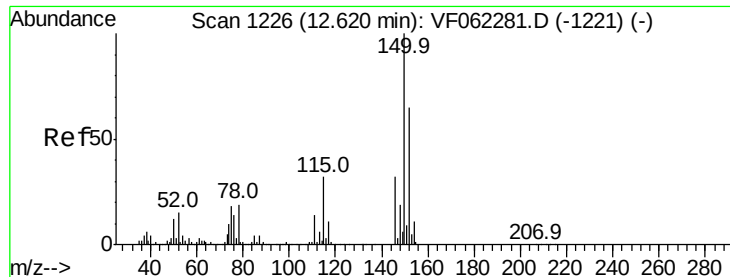
#70
Styrene
Concen: 1.113 ug/l
RT: 10.90 min Scan# 1052
Delta R.T. 0.01 min
Lab File: VF062284.D
Acq: 24 Apr 2019 16:46

Tgt Ion:104 Resp: 11336
Ion Ratio Lower Upper
104 100
78 41.2 35.9 53.9
103 42.3 37.5 56.3



Abundance Ion 104.00 (103.70 to 104.70): V
Ion 78.00 (77.70 to 78.70): VF0
Ion 103.00 (102.70 to 103.70): V



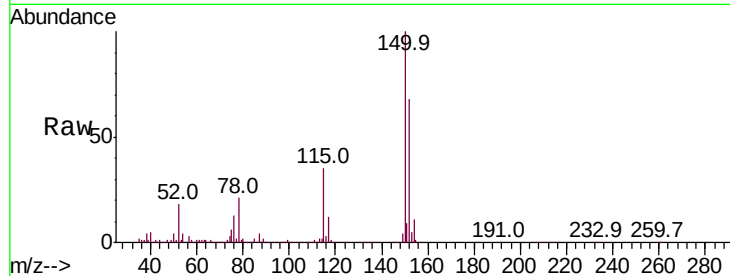


#72

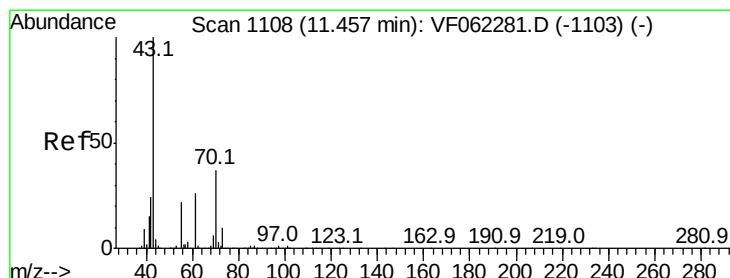
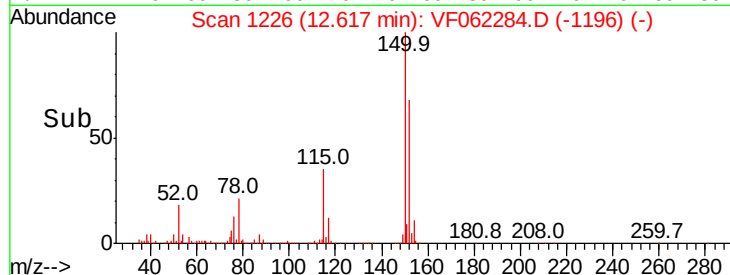
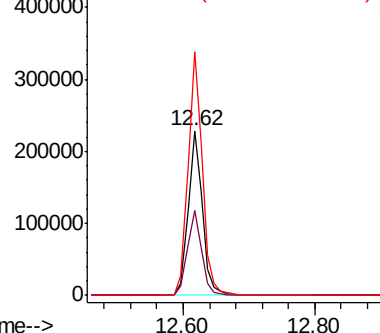
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.62 min Scan# 1226
Delta R.T. -0.00 min
Lab File: VF062284.D
Acq: 24 Apr 2019 16:46

Instrument :
MSVOA_F
ClientSampleId :
VIBLK

Tot Ion:152 Resp: 336912
Ion Ratio Lower Upper
152 100
115 52.2 25.6 76.8
150 149.5 0.0 330.6



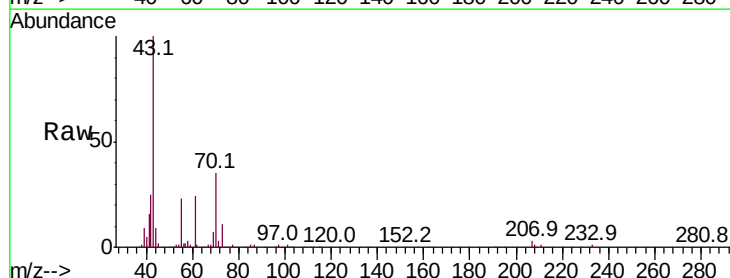
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



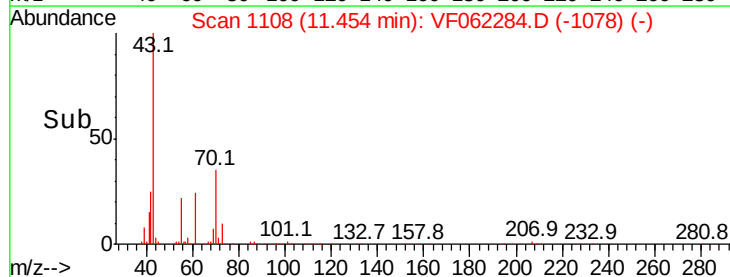
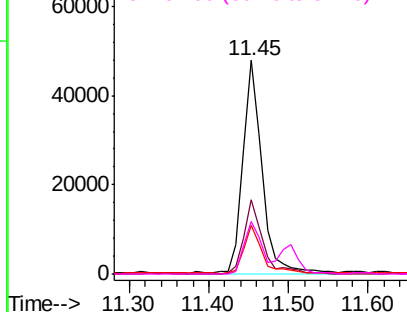
#74

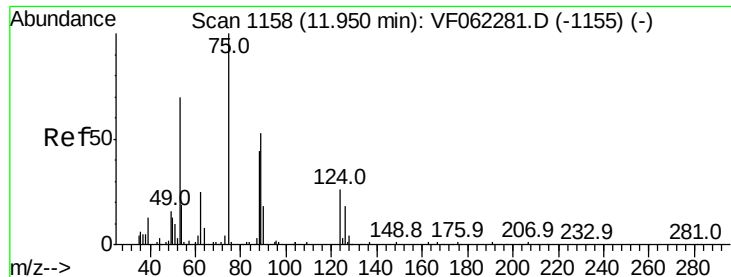
N-amyl acetate
Concen: 14.915 ug/l
RT: 11.45 min Scan# 1108
Delta R.T. -0.00 min
Lab File: VF062284.D
Acq: 24 Apr 2019 16:46

Tgt Ion: 43 Resp: 81451
Ion Ratio Lower Upper
43 100
70 34.0 27.8 41.8
55 21.2 16.6 24.8
61 23.8 20.0 30.0



Abundance Ion 43.00 (42.70 to 43.70): VF0
Ion 70.00 (69.70 to 70.70): VF0
Ion 55.00 (54.70 to 55.70): VF0
Ion 61.00 (60.70 to 61.70): VF0





#81

trans-1,4-Dichloro-2-butene

Concen: 1.875 ug/l

RT: 11.95 min Scan# 1158

Delta R.T. -0.00 min

Lab File: VF062284.D

Acq: 24 Apr 2019 16:46

Instrument :

MSVOA_F

ClientSampleId :

VIBLK

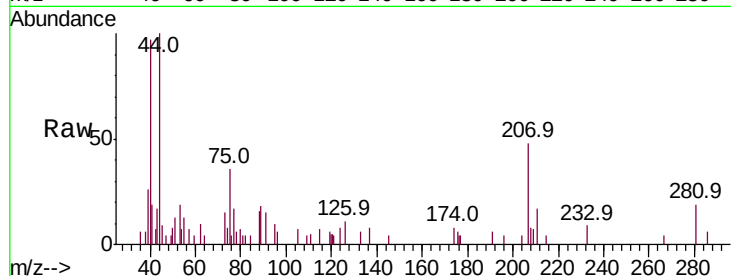
Tot Ion: 75 Resp: 2826

Ion Ratio Lower Upper

75 100

53 32.8 67.1 100.7#

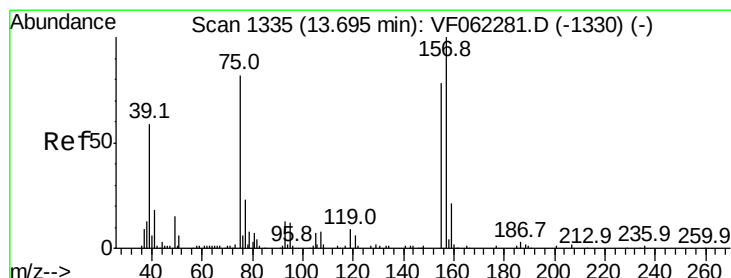
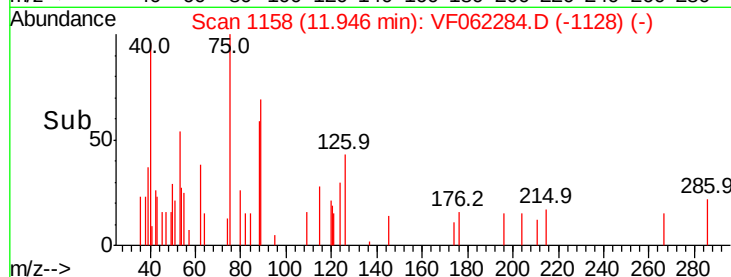
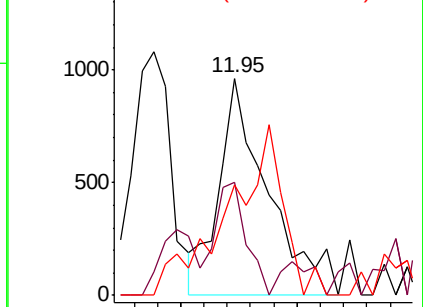
89 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VF0

Ion 53.00 (52.70 to 53.70): VF0

Ion 88.90 (88.60 to 89.60): VF0



#92

1,2-Dibromo-3-Chloropropane

Concen: 1.254 ug/l

RT: 13.69 min Scan# 1335

Delta R.T. -0.00 min

Lab File: VF062284.D

Acq: 24 Apr 2019 16:46

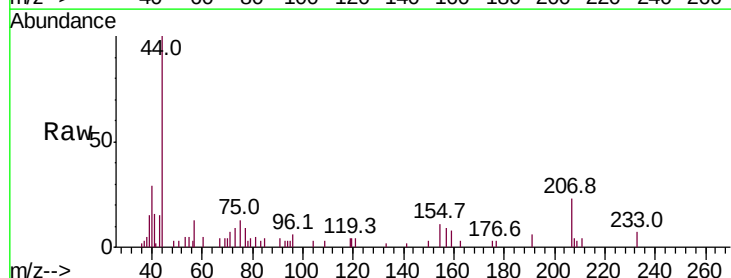
Tgt Ion: 75 Resp: 917

Ion Ratio Lower Upper

75 100

155 91.5 51.7 155.2

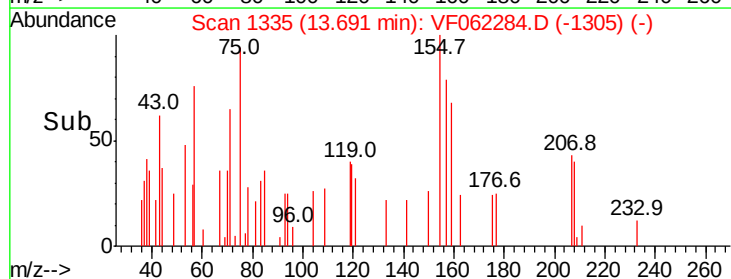
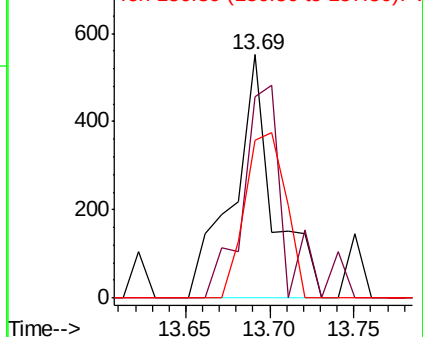
157 69.2 64.5 193.5

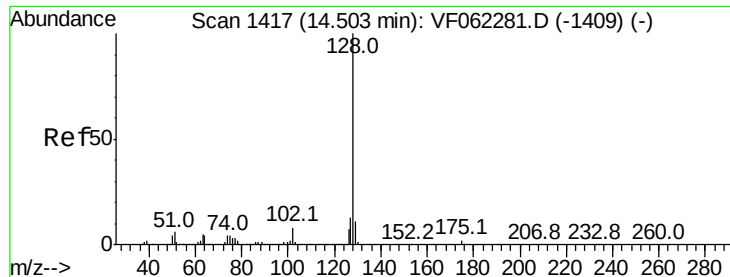


Abundance Ion 74.90 (74.60 to 75.60): VF0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

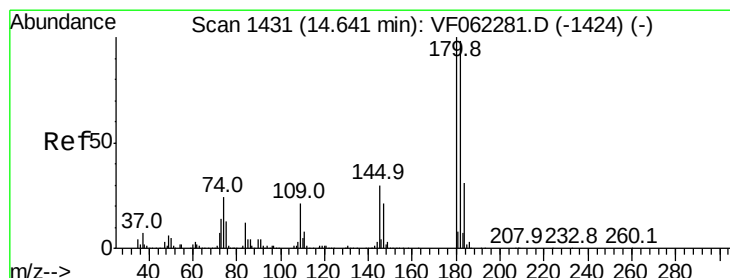
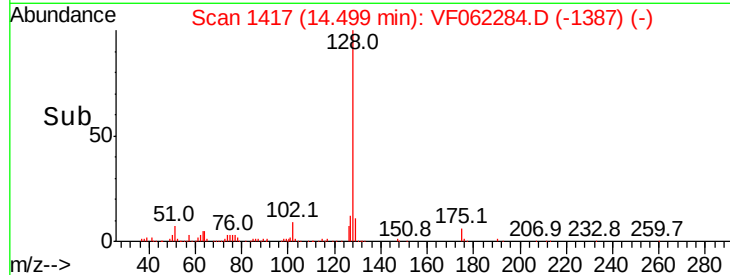
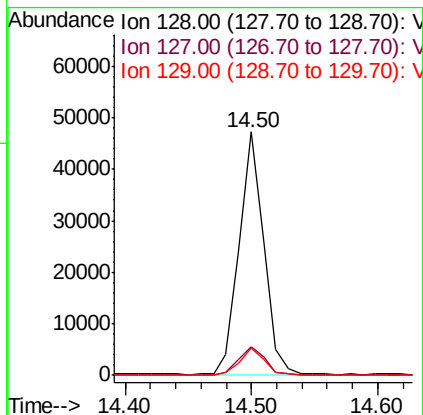
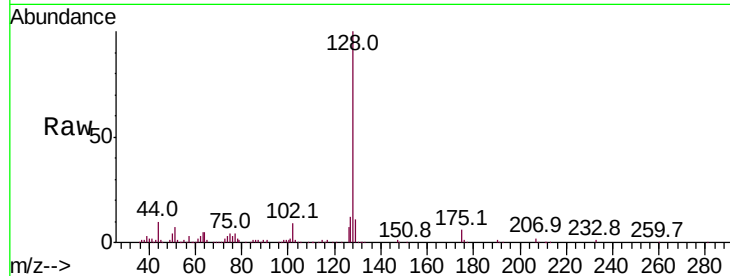




#95
Naphthalene
Concen: 4.768 ug/l
RT: 14.50 min Scan# 1417
Delta R.T. -0.00 min
Lab File: VF062284.D
Acq: 24 Apr 2019 16:46

Instrument :
MSVOA_F
ClientSampleId :
VIBLK

Tot Ion:128 Resp: 63650
Ion Ratio Lower Upper
128 100
127 12.8 10.2 15.4
129 11.0 8.9 13.3



#96
1,2,3-Trichlorobenzene
Concen: 1.133 ug/l
RT: 14.65 min Scan# 1432
Delta R.T. 0.01 min
Lab File: VF062284.D
Acq: 24 Apr 2019 16:46

Tgt Ion:180 Resp: 9379
Ion Ratio Lower Upper
180 100
182 97.8 49.0 147.2
145 31.4 14.5 43.5

