

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF082418\
 Data File : VF060106.D
 Acq On : 24 Aug 2018 18:07
 Operator : VA/AP
 Sample : J4608-02
 Misc : 7.51u/5mL/MSVOA F/SOIL
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 CLIFFWOOD-EMBANKMENT-FILL

Quant Time: Aug 25 03:46:58 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F082118S.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 22 04:43:43 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.03	168	870	50.00	ug/l	-0.01
34) 1,4-Difluorobenzene	5.74	114	1058	50.00	ug/l	-0.03
63) Chlorobenzene-d5	9.90	117	497	50.00	ug/l	-0.02
72) 1,4-Dichlorobenzene-d4	12.63	152	80	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.00	65	59	4.96	ug/l	-0.03
Spiked Amount				50.000		
			Recovery	=	9.92%	
35) Dibromofluoromethane	4.29	113	112	13.48	ug/l	-0.01
Spiked Amount				50.000		
			Recovery	=	26.96%	
50) Toluene-d8	7.70	98	584	24.75	ug/l	-0.02
Spiked Amount				50.000		
			Recovery	=	49.50%	
62) 4-Bromofluorobenzene	0.00	95	0	0.00	ug/l	
Spiked Amount				50.000		
			Recovery	=	0.00%	

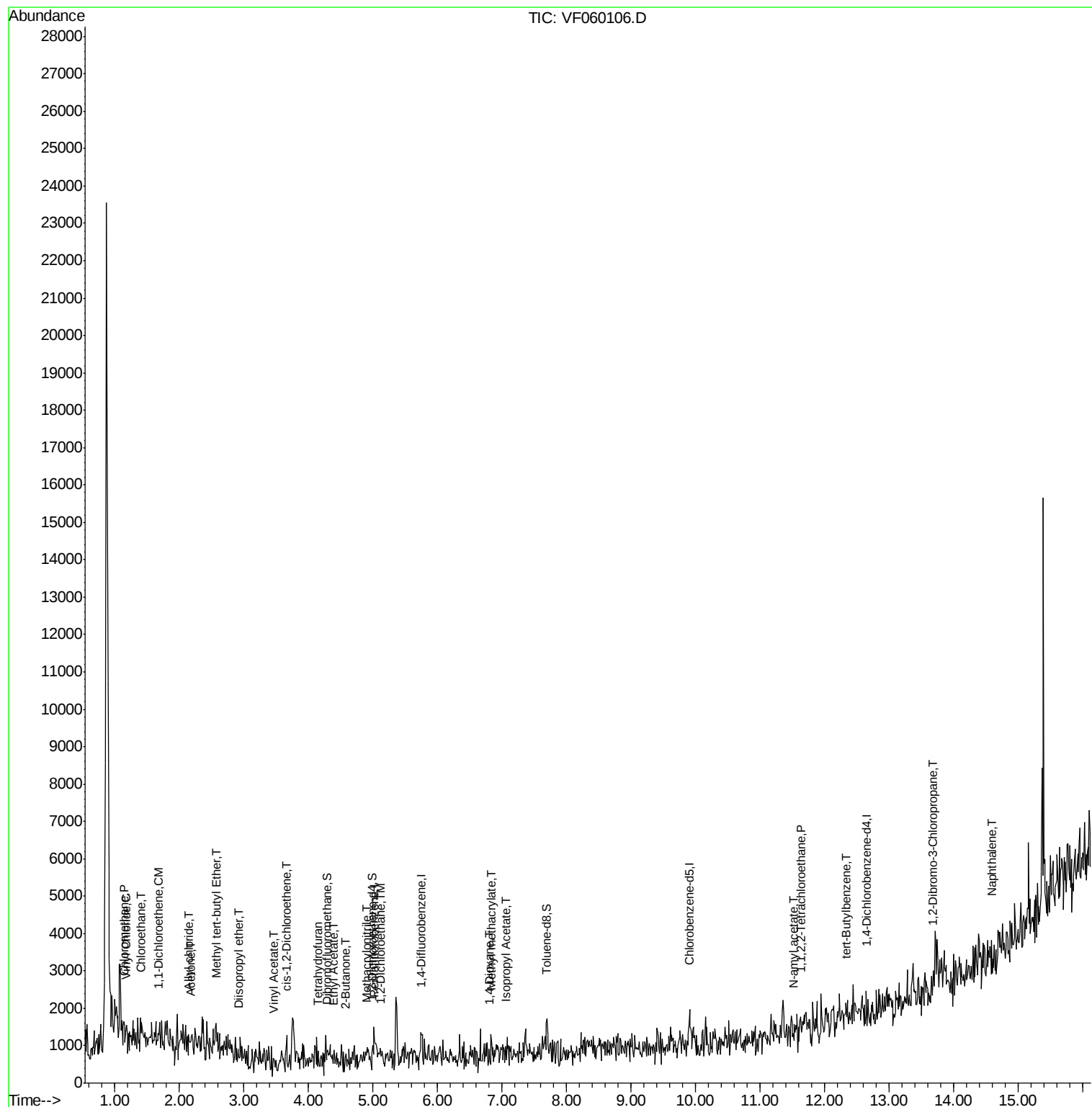
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.14	50	63	5.16	ug/l #	40
4) Vinyl Chloride	1.19	62	67	9.42	ug/l #	40
6) Chloroethane	1.41	64	399	142.33	ug/l #	45
12) 1,1-Dichloroethene	1.66	96	60	10.85	ug/l #	1
14) Allyl chloride	2.15	41	67	6.82	ug/l #	1
16) Acetone	2.17	43	72	23.01	ug/l #	63
19) Methyl tert-butyl Ether	2.57	73	66	3.72	ug/l #	1
22) Diisopropyl ether	2.92	45	64	2.91	ug/l #	38
23) Vinyl Acetate	3.46	43	98	8.41	ug/l #	80
25) 2-Butanone	4.57	43	70	17.22	ug/l #	58
27) cis-1,2-Dichloroethene	3.67	96	80	9.12	ug/l	1
29) Tetrahydrofuran	4.16	42	241	157.03	ug/l #	37
37) Ethyl Acetate	4.39	43	60	10.09	ug/l #	1
41) Methacrylonitrile	4.92	41	60	19.95	ug/l #	2
42) 1,2-Dichloroethane	5.11	62	79	6.78	ug/l	83
43) Isopropyl Acetate	7.06	43	65	8.69	ug/l #	45
48) Methyl methacrylate	6.83	41	91	18.38	ug/l #	15
49) 1,4-Dioxane	6.80	88	62	1304.15	ug/l #	18
74) N-amyl acetate	11.51	43	64	42.76	ug/l #	49
75) 1,1,2,2-Tetrachloroethane	11.62	83	62	58.95	ug/l #	26
83) tert-Butylbenzene	12.33	119	71	17.35	ug/l #	32
92) 1,2-Dibromo-3-Chloropropan	13.69	75	67	311.75	ug/l #	1
95) Naphthalene	14.60	128	69	24.42	ug/l #	1

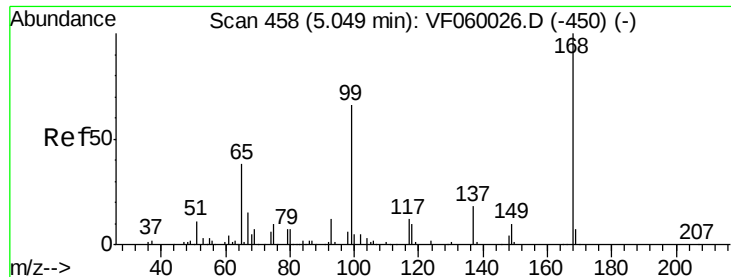
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF082418\
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Quant Title : SW846 8260
QLast Update : Wed Aug 22 04:43:43 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.03 min Scan# 457

Delta R.T. -0.01 min

Lab File: VF060106.D

Acq: 24 Aug 2018 18:07

Instrument :

MSVOA_F

ClientSampleId :

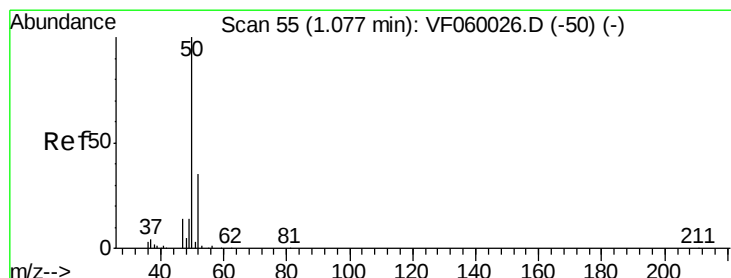
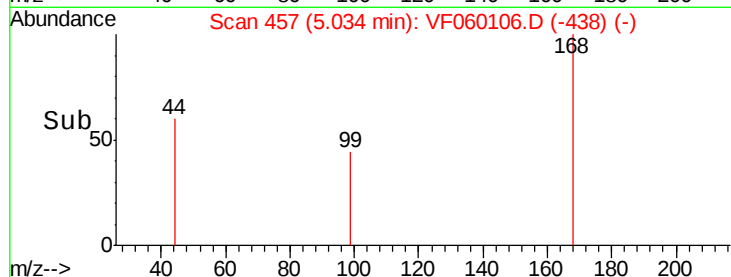
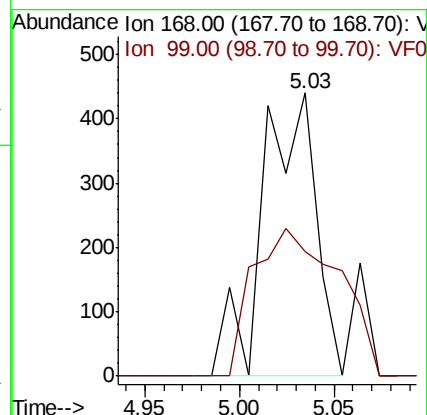
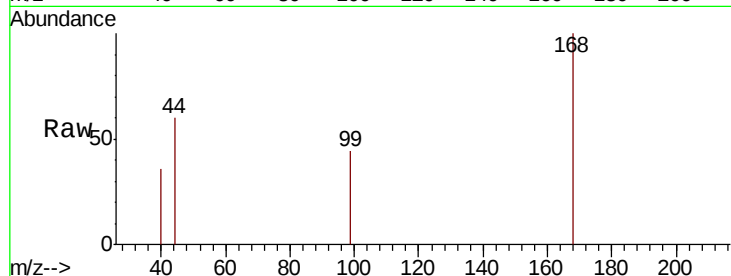
CLIFFWOOD-EMBANKMENT-FILL

Tot Ion:168 Resp: 870

Ion Ratio Lower Upper

168 100

99 43.9 52.6 79.0#



#3

Chloromethane

Concen: 5.16 ug/l

RT: 1.14 min Scan# 62

Delta R.T. 0.06 min

Lab File: VF060106.D

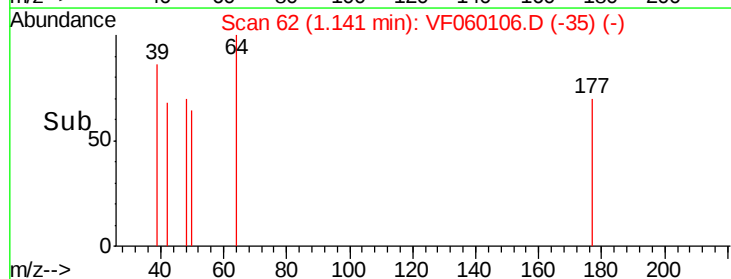
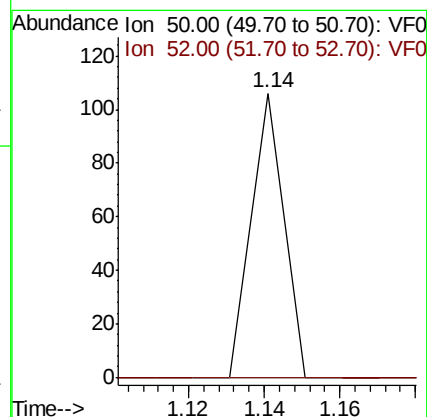
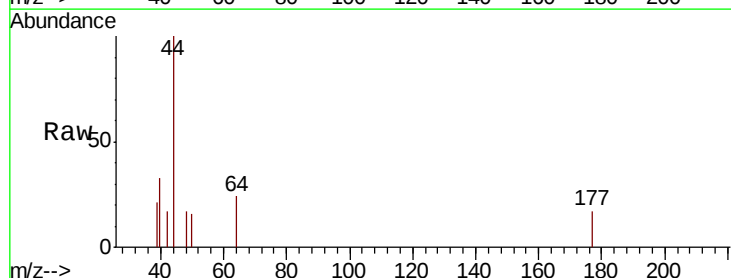
Acq: 24 Aug 2018 18:07

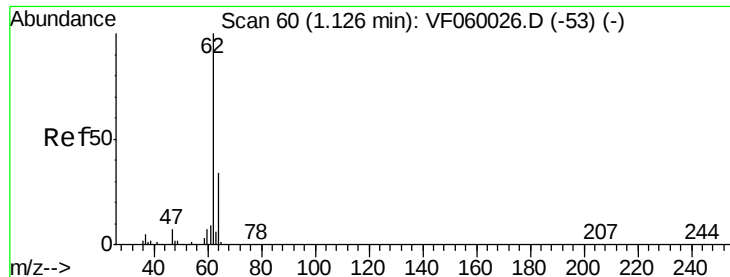
Tgt Ion: 50 Resp: 63

Ion Ratio Lower Upper

50 100

52 0.0 27.6 41.4#





#4

Vinyl Chloride

Concen: 9.42 ug/l

RT: 1.19 min Scan# 67

Delta R.T. 0.06 min

Lab File: VF060106.D

Acq: 24 Aug 2018 18:07

Instrument :

MSVOA_F

ClientSampleId :

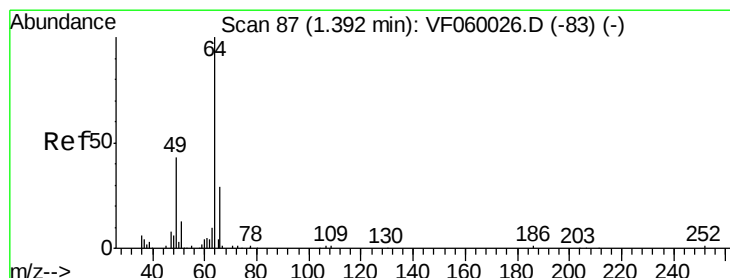
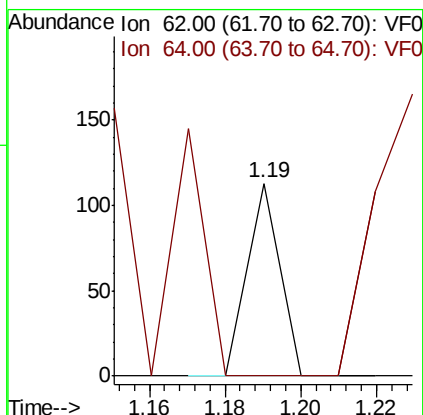
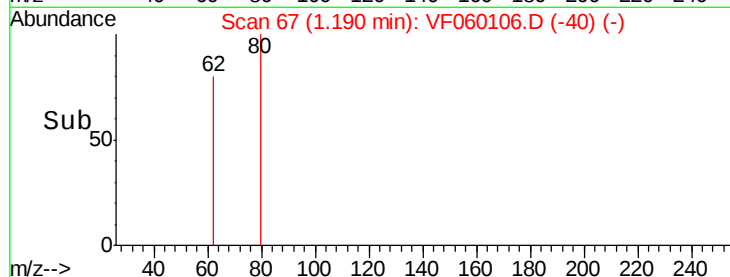
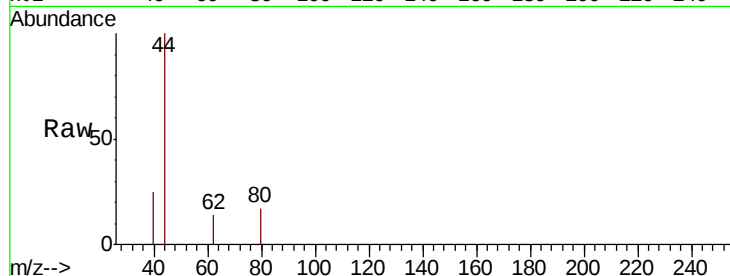
CLIFFWOOD-EMBANKMENT-FILL

Tot Ion: 62 Resp: 67

Ion Ratio Lower Upper

62 100

64 0.0 27.4 41.2#



#6

Chloroethane

Concen: 142.33 ug/l

RT: 1.41 min Scan# 89

Delta R.T. 0.01 min

Lab File: VF060106.D

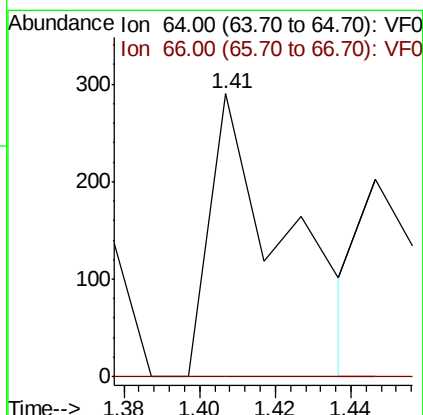
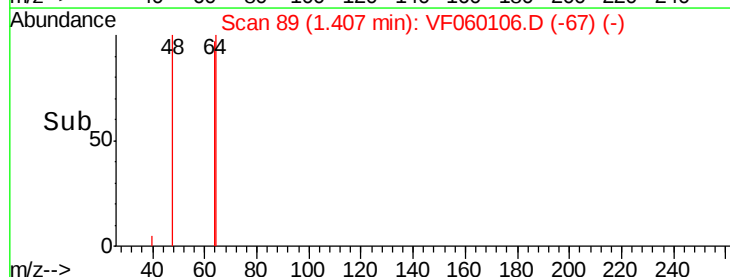
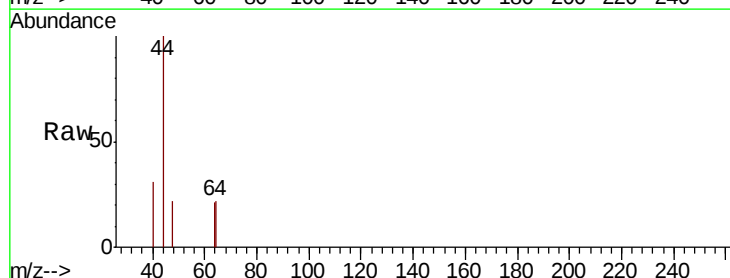
Acq: 24 Aug 2018 18:07

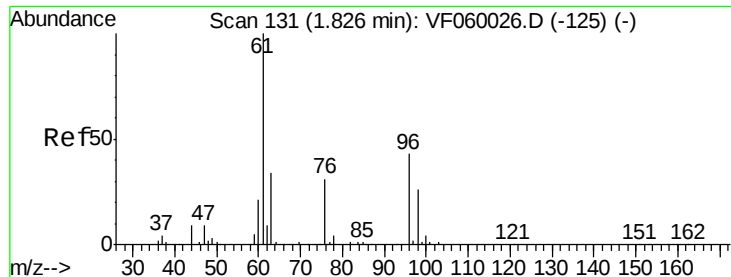
Tgt Ion: 64 Resp: 399

Ion Ratio Lower Upper

64 100

66 0.0 24.1 36.1#





#12

1,1-Dichloroethene

Concen: 10.85 ug/l

RT: 1.66 min Scan# 115

Delta R.T. -0.16 min

Lab File: VF060106.D

Acq: 24 Aug 2018 18:07

Instrument :

MSVOA_F

ClientSampleId :

CLIFFWOOD-EMBANKMENT-FILL

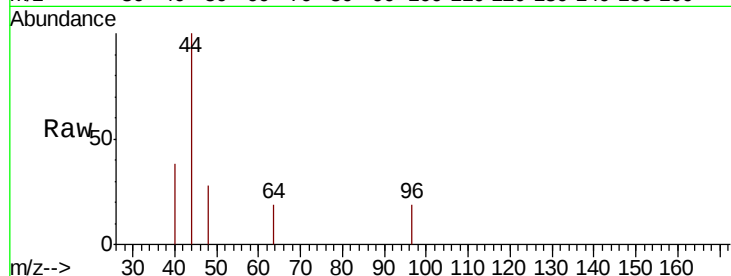
Tot Ion: 96 Resp: 60

Ion Ratio Lower Upper

96 100

61 0.0 185.0 277.6#

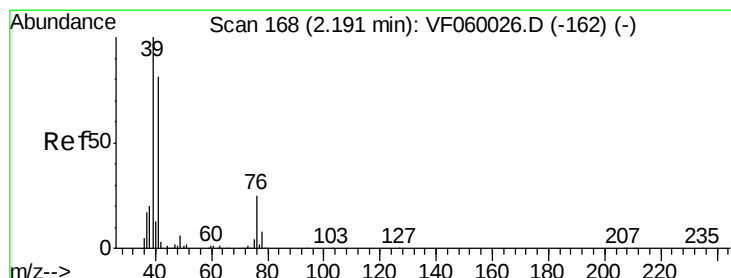
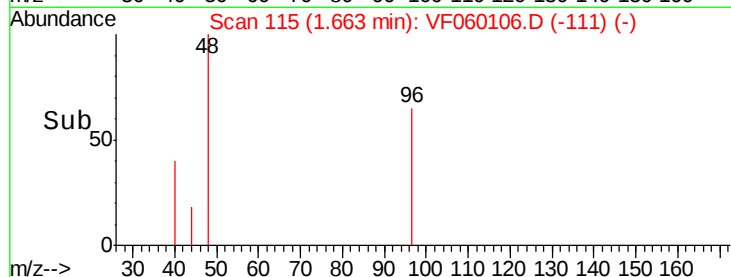
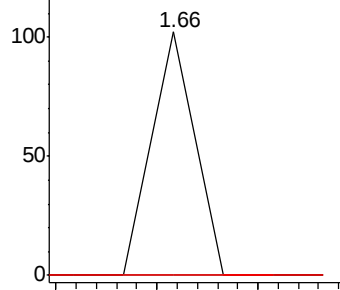
98 0.0 47.8 71.8#



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



#14

Allyl chloride

Concen: 6.82 ug/l

RT: 2.15 min Scan# 164

Delta R.T. -0.04 min

Lab File: VF060106.D

Acq: 24 Aug 2018 18:07

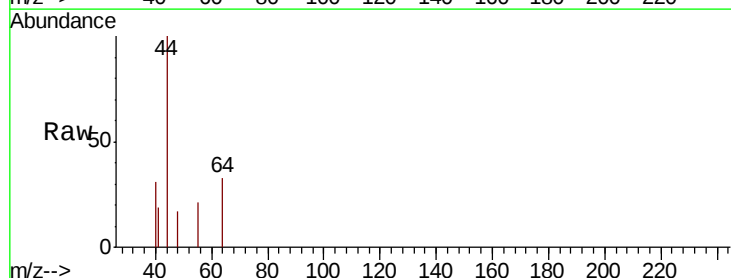
Tgt Ion: 41 Resp: 67

Ion Ratio Lower Upper

41 100

39 0.0 99.3 148.9#

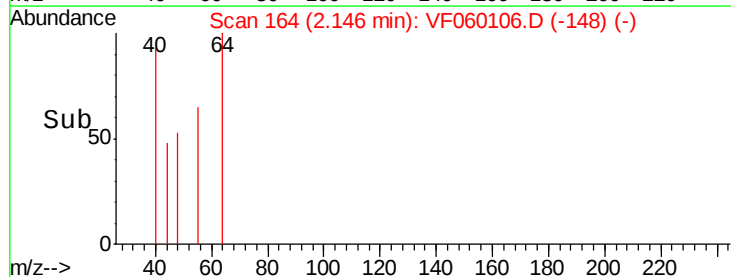
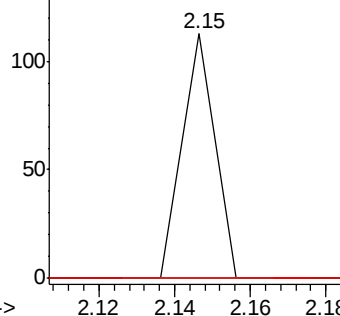
76 0.0 24.3 36.5#

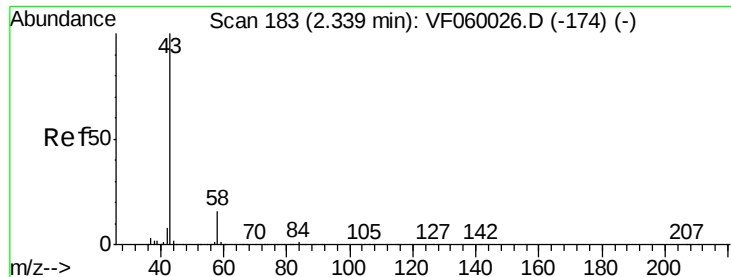


Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

Ion 76.00 (75.70 to 76.70): VF0





#16

Acetone

Concen: 23.01 ug/l

RT: 2.17 min Scan# 166

Delta R.T. -0.17 min

Lab File: VF060106.D

Acq: 24 Aug 2018 18:07

Instrument :

MSVOA_F

ClientSampleId :

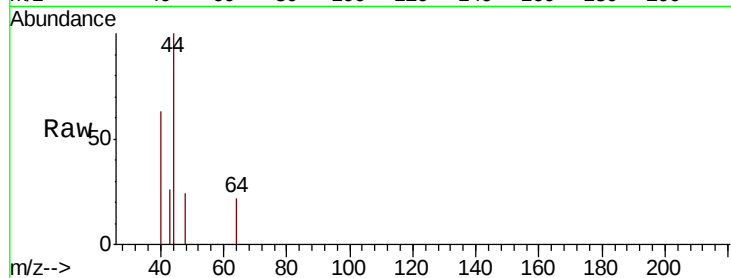
CLIFFWOOD-EMBANKMENT-FILL

Tot Ion: 43 Resp: 72

Ion Ratio Lower Upper

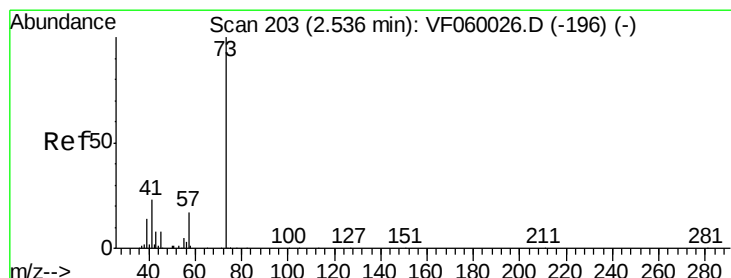
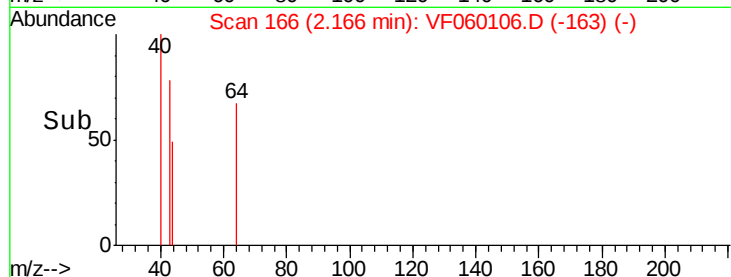
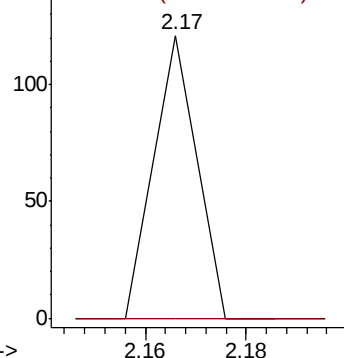
43 100

58 0.0 12.6 19.0#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#19

Methyl tert-butyl Ether

Concen: 3.72 ug/l

RT: 2.57 min Scan# 207

Delta R.T. 0.03 min

Lab File: VF060106.D

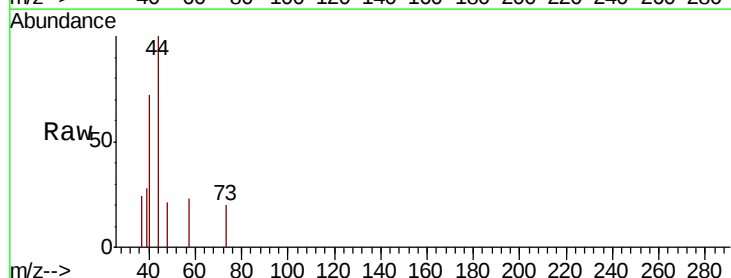
Acq: 24 Aug 2018 18:07

Tgt Ion: 73 Resp: 66

Ion Ratio Lower Upper

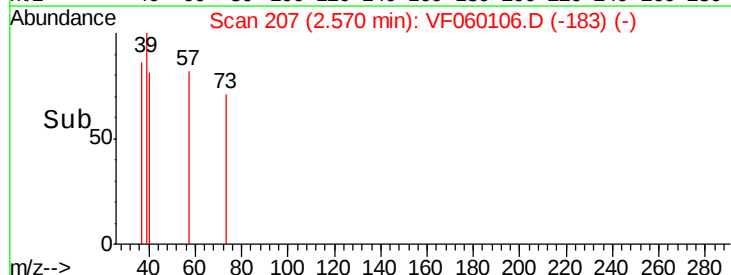
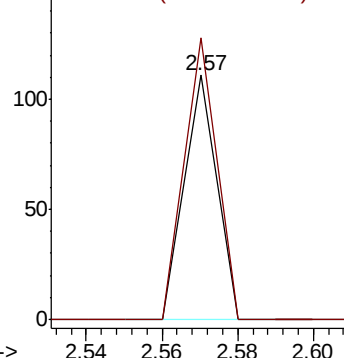
73 100

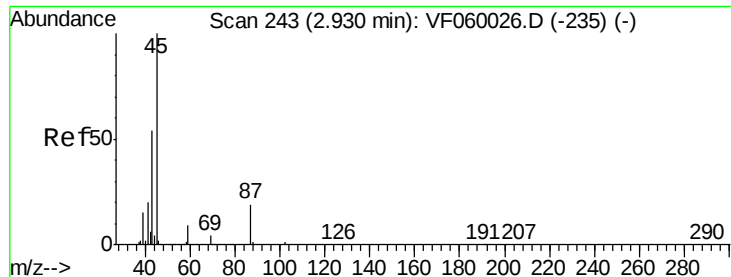
57 115.3 13.7 20.5#



Abundance Ion 73.00 (72.70 to 73.70): VF0

Ion 57.00 (56.70 to 57.70): VF0





#22

Diisopropyl ether

Concen: 2.91 ug/l

RT: 2.92 min Scan# 243

Delta R.T. -0.01 min

Lab File: VF060106.D

Acq: 24 Aug 2018 18:07

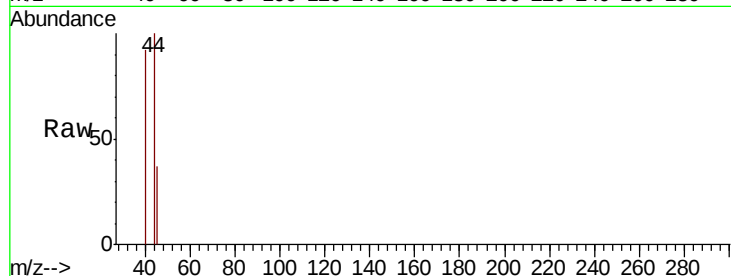
Instrument :

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CLIFFWOOD-EMBANKMENT-FILL

Tot Ion:	45	Resp:	64
Ion	Ratio	Lower	Upper
45	100		
43	0.0	43.4	65.2#
87	0.0	15.4	23.2#
59	0.0	7.5	11.3#

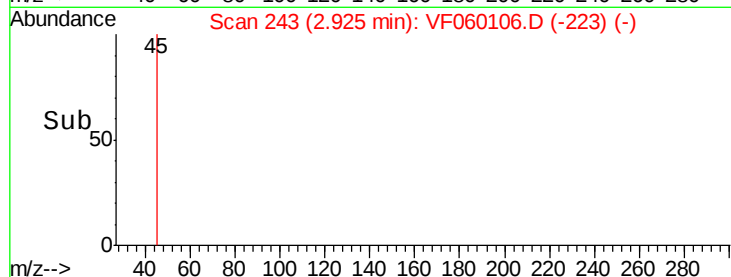
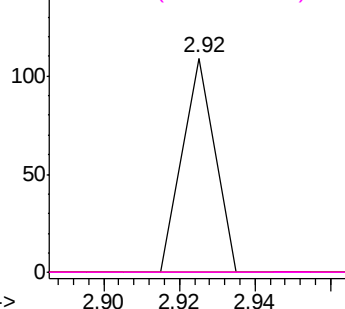


Abundance Ion 45.00 (44.70 to 45.70): VF0

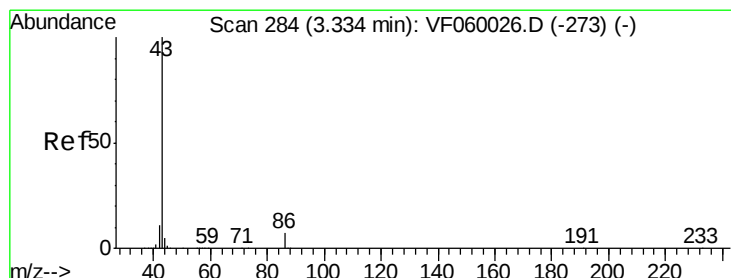
Ion 43.00 (42.70 to 43.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

Ion 59.00 (58.70 to 59.70): VF0



Time-->



#23

Vinyl Acetate

Concen: 8.41 ug/l

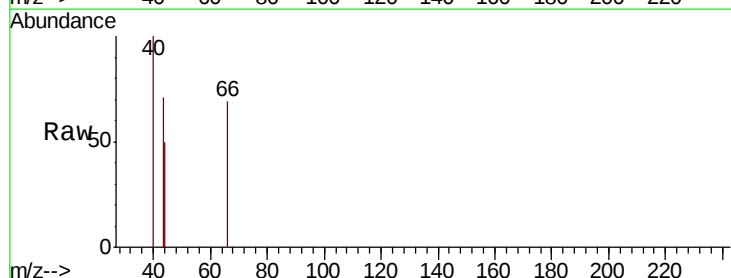
RT: 3.46 min Scan# 297

Delta R.T. 0.12 min

Lab File: VF060106.D

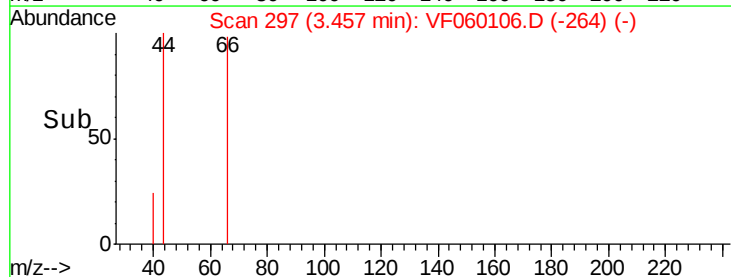
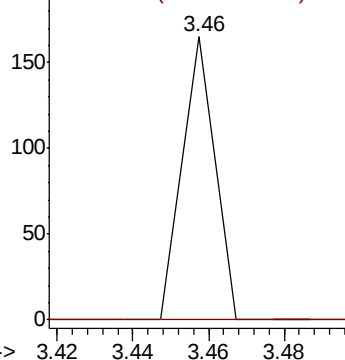
Acq: 24 Aug 2018 18:07

Tgt Ion:	43	Resp:	98
Ion	Ratio	Lower	Upper
43	100		
86	0.0	5.6	8.4#

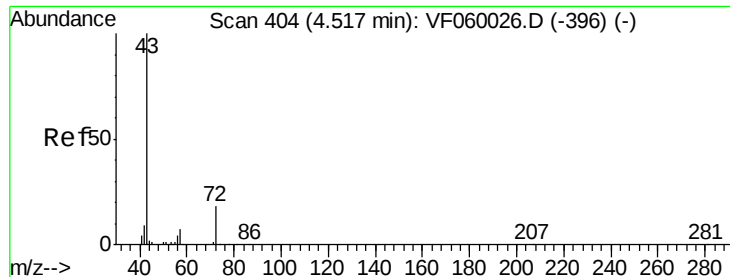


Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 86.00 (85.70 to 86.70): VF0



Time-->



#25

2-Butanone

Concen: 17.22 ug/l

RT: 4.57 min Scan# 410

Delta R.T. 0.05 min

Lab File: VF060106.D

Acq: 24 Aug 2018 18:07

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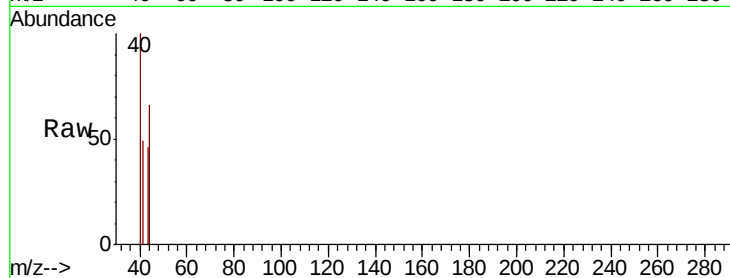
CLIFFWOOD-EMBANKMENT-FILL

Tot Ion: 43 Resp: 70

Ion Ratio Lower Upper

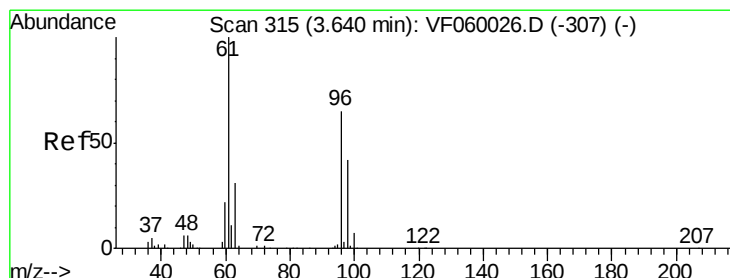
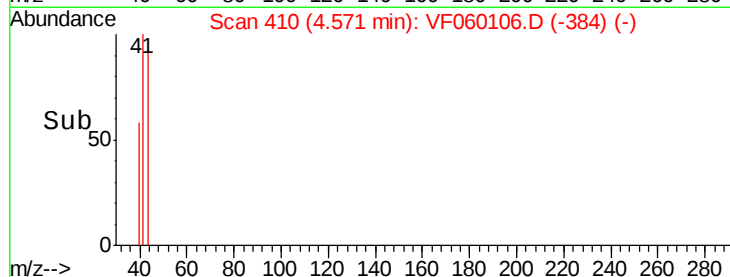
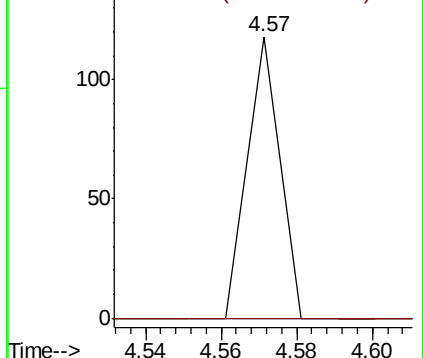
43 100

72 0.0 15.0 22.6#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 72.00 (71.70 to 72.70): VF0



#27

cis-1,2-Dichloroethene

Concen: 9.12 ug/l

RT: 3.67 min Scan# 319

Delta R.T. 0.03 min

Lab File: VF060106.D

Acq: 24 Aug 2018 18:07

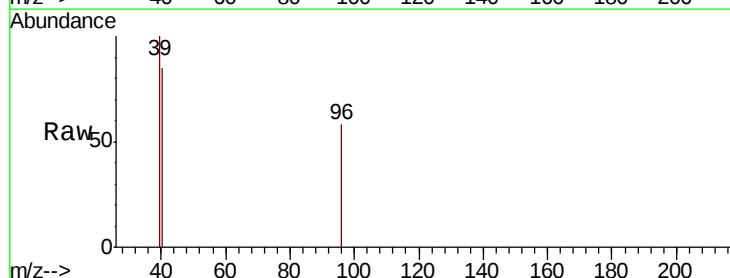
Tgt Ion: 96 Resp: 80

Ion Ratio Lower Upper

96 100

61 0.0 0.0 307.6

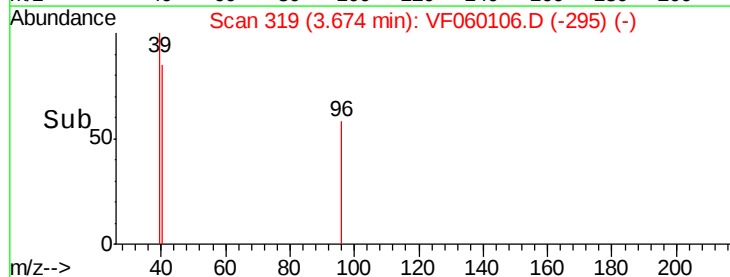
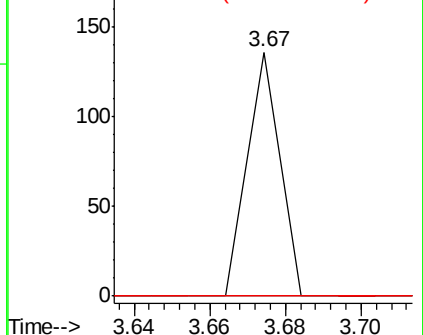
98 0.0 0.0 128.4

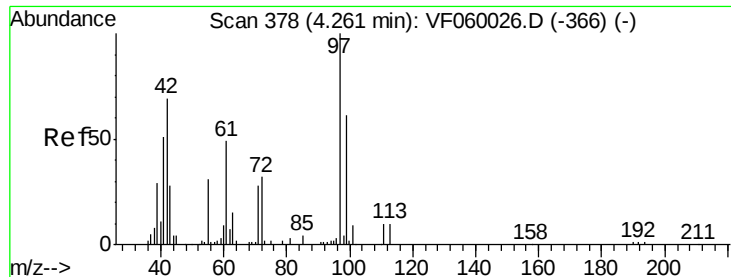


Abundance Ion 96.00 (95.70 to 96.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 98.00 (97.70 to 98.70): VF0





#29

Tetrahydrofuran

Concen: 157.03 ug/l

RT: 4.16 min Scan# 368

Delta R.T. -0.10 min

Lab File: VF060106.D

Acq: 24 Aug 2018 18:07

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CLIFFWOOD-EMBANKMENT-FILL

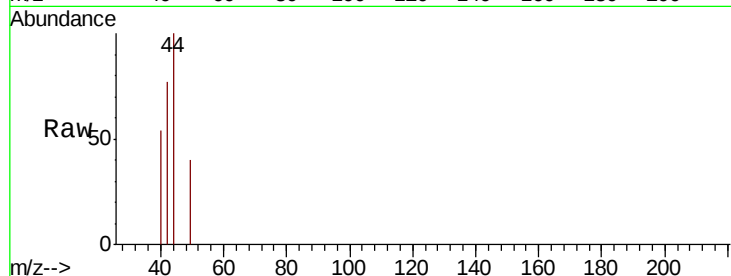
Tot Ion: 42 Resp: 241

Ion Ratio Lower Upper

42 100

72 0.0 31.4 47.2#

71 0.0 29.7 44.5#



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

250

200

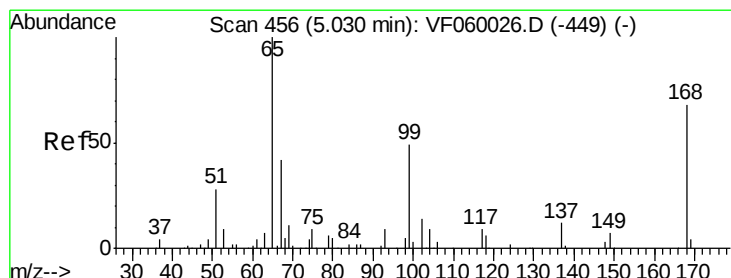
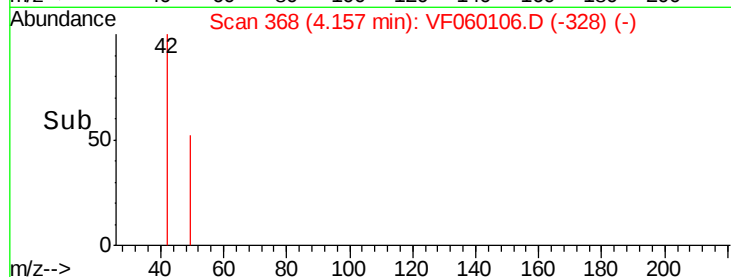
150

100

50

0

Time--> 4.10 4.15



#33

1,2-Dichloroethane-d4

Concen: 4.96 ug/l

RT: 5.00 min Scan# 453

Delta R.T. -0.03 min

Lab File: VF060106.D

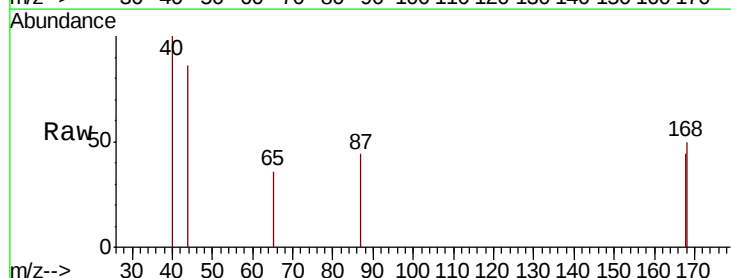
Acq: 24 Aug 2018 18:07

Tgt Ion: 65 Resp: 59

Ion Ratio Lower Upper

65 100

67 0.0 0.0 92.0



Abundance Ion 65.00 (64.70 to 65.70): VF0
Ion 67.00 (66.70 to 67.70): VF0

100

80

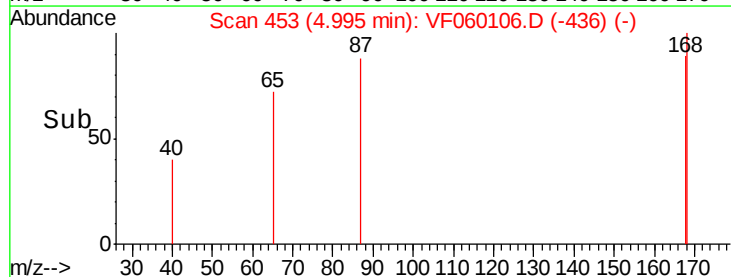
60

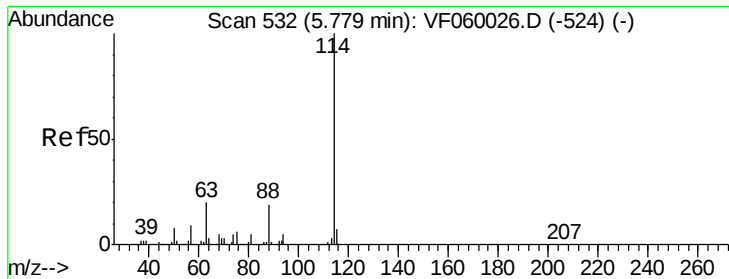
40

20

0

Time--> 4.96 4.98 5.00 5.02





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 5.74 min Scan# 529

Delta R.T. -0.03 min

Lab File: VF060106.D

Acq: 24 Aug 2018 18:07

Instrument :

MSVOA_F

ClientSampleId :

CLIFFWOOD-EMBANKMENT-FILL

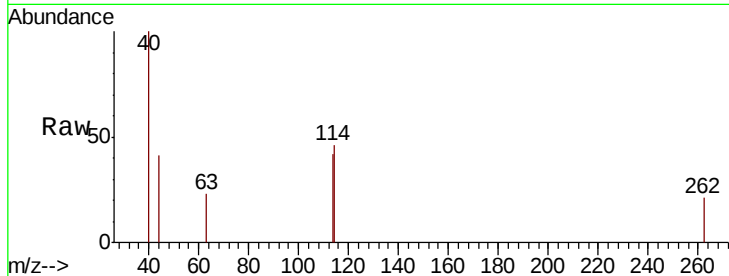
Tot Ion:114 Resp: 1058

Ion Ratio Lower Upper

114 100

63 26.4 0.0 40.4

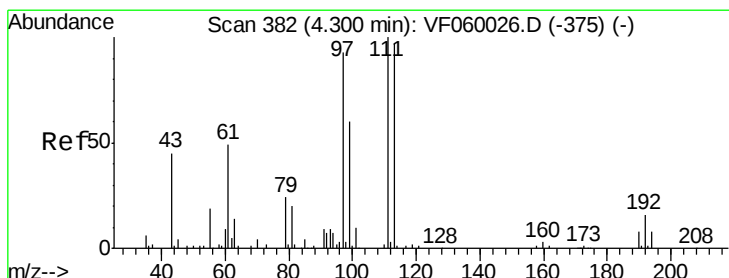
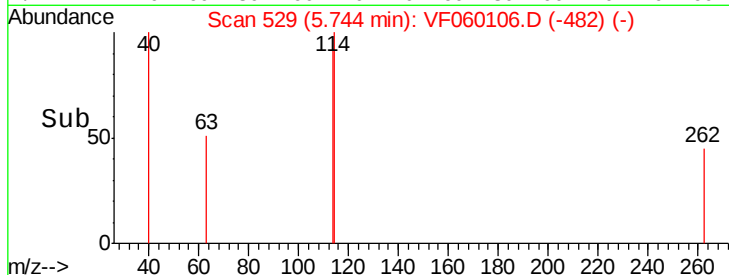
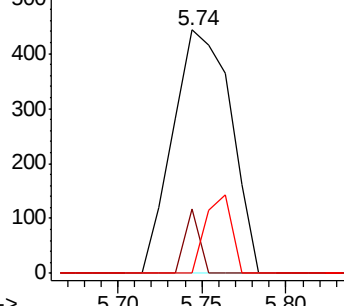
88 0.0 0.0 38.6



Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VF0

Ion 88.00 (87.70 to 88.70): VF0



#35

Dibromofluoromethane

Concen: 13.48 ug/l

RT: 4.29 min Scan# 381

Delta R.T. -0.01 min

Lab File: VF060106.D

Acq: 24 Aug 2018 18:07

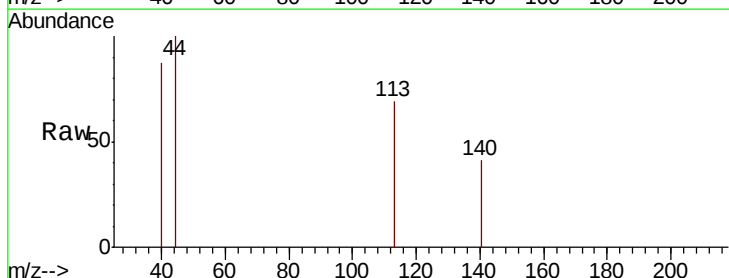
Tgt Ion:113 Resp: 112

Ion Ratio Lower Upper

113 100

111 0.0 82.7 124.1#

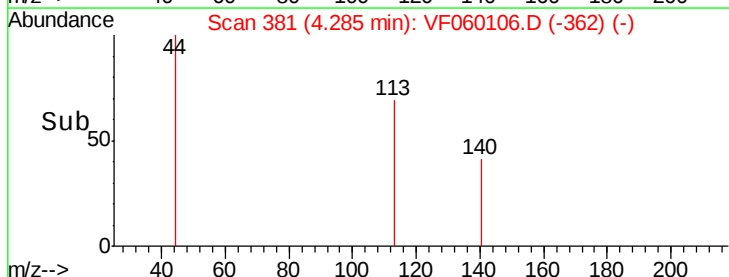
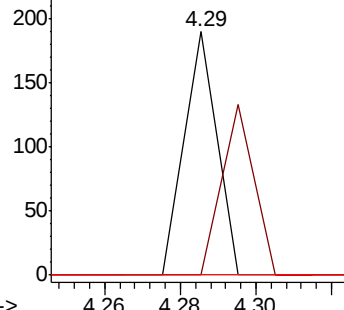
192 0.0 13.0 19.4#

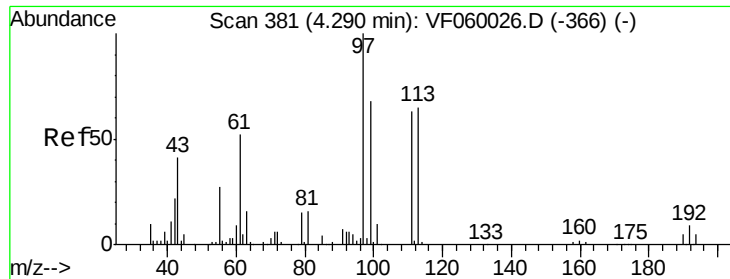


Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V

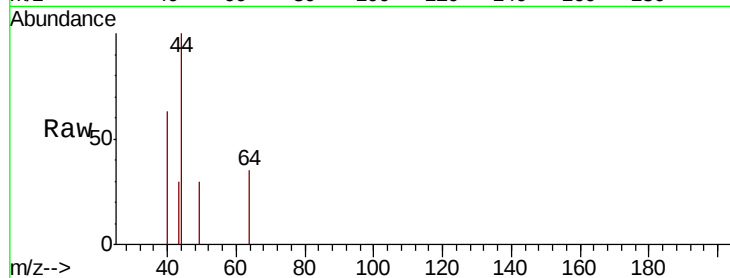




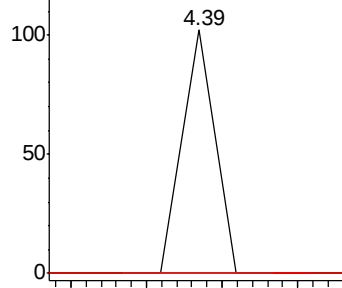
#37
Ethyl Acetate
Concen: 10.09 ug/l
RT: 4.39 min Scan# 392
Delta R.T. 0.10 min
Lab File: VF060106.D
Acq: 24 Aug 2018 18:07

Instrument :
MSVOA_F
ClientSampleId :
CLIFFWOOD-EMBANKMENT-FILL

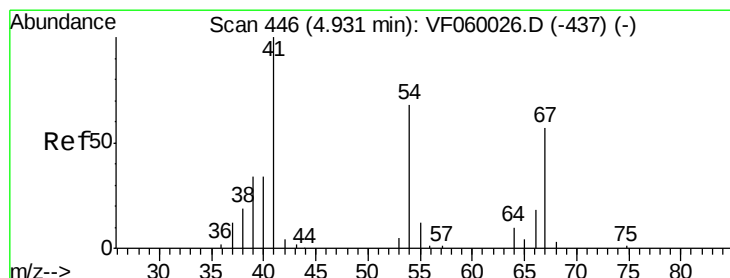
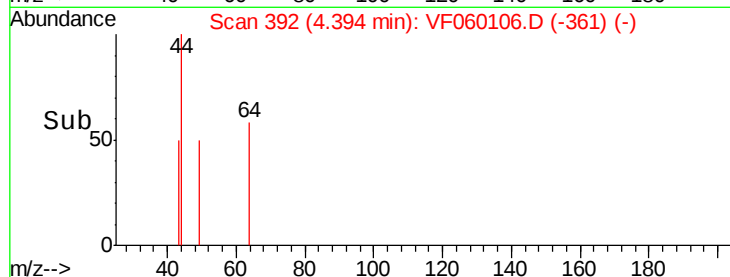
Tot Ion: 43 Resp: 60
Ion Ratio Lower Upper
43 100
61 0.0 101.5 152.3#
70 0.0 6.4 9.6#



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

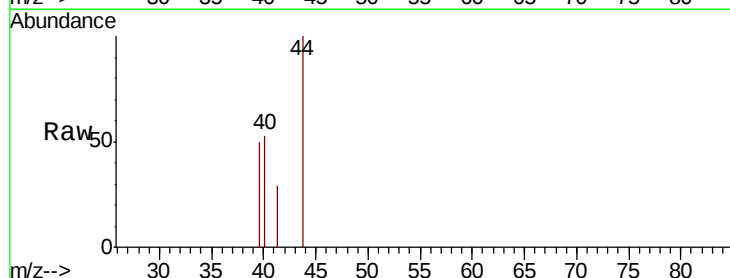


Time--> 4.36 4.38 4.40 4.42

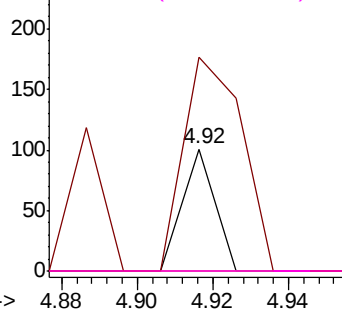


#41
Methacrylonitrile
Concen: 19.95 ug/l
RT: 4.92 min Scan# 445
Delta R.T. -0.01 min
Lab File: VF060106.D
Acq: 24 Aug 2018 18:07

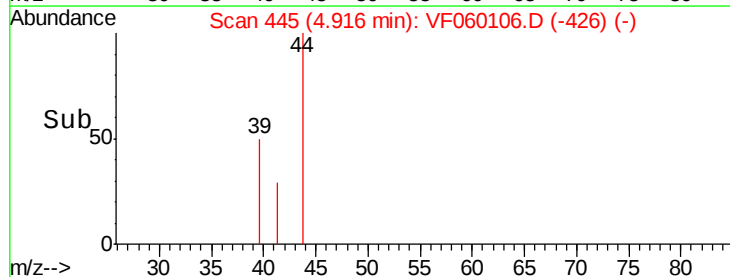
Tgt Ion: 41 Resp: 60
Ion Ratio Lower Upper
41 100
39 174.3 52.9 79.3#
67 0.0 45.3 67.9#
52 0.0 34.8 52.2#

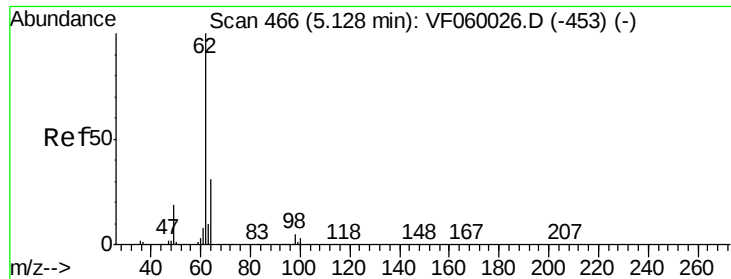


Abundance Ion 41.00 (40.70 to 41.70): VF0
Ion 39.00 (38.70 to 39.70): VF0
Ion 67.00 (66.70 to 67.70): VF0
Ion 52.00 (51.70 to 52.70): VF0



Time--> 4.88 4.90 4.92 4.94





#42

1,2-Dichloroethane

Concen: 6.78 ug/l

RT: 5.11 min Scan# 465

Delta R.T. -0.01 min

Lab File: VF060106.D

Acq: 24 Aug 2018 18:07

Instrument :

MSVOA_F

ClientSampleId :

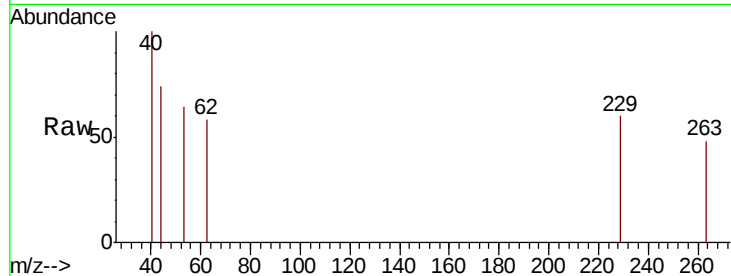
CLIFFWOOD-EMBANKMENT-FILL

Tot Ion: 62 Resp: 79

Ion Ratio Lower Upper

62 100

98 0.0 0.0 11.2



Abundance Ion 62.00 (61.70 to 62.70): VF0

Ion 98.00 (97.70 to 98.70): VF0

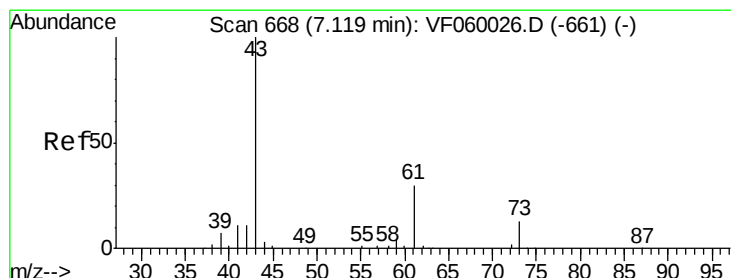
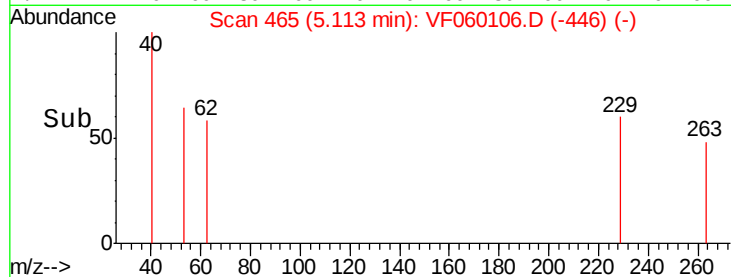
5.11

100

50

0

Time-->



#43

Isopropyl Acetate

Concen: 8.69 ug/l

RT: 7.06 min Scan# 662

Delta R.T. -0.06 min

Lab File: VF060106.D

Acq: 24 Aug 2018 18:07

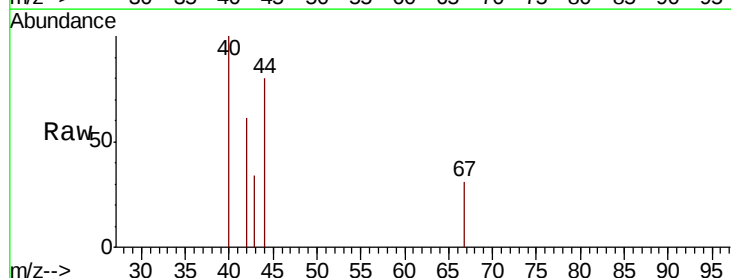
Tgt Ion: 43 Resp: 65

Ion Ratio Lower Upper

43 100

61 0.0 23.8 35.6#

87 0.0 0.2 0.4#



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

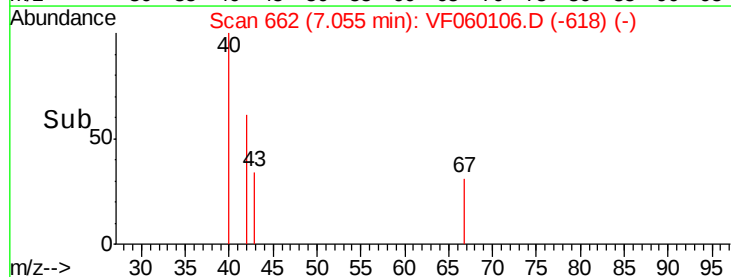
7.06

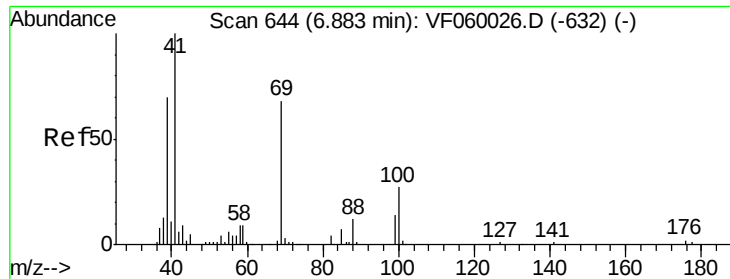
100

50

0

Time-->

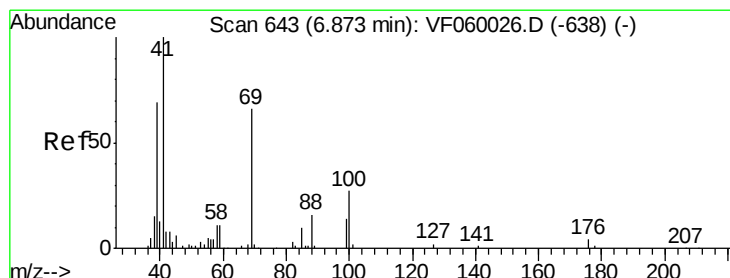
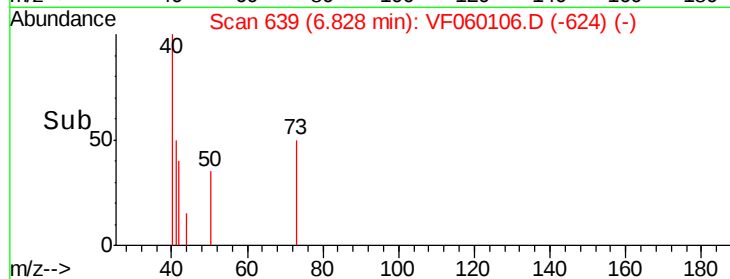
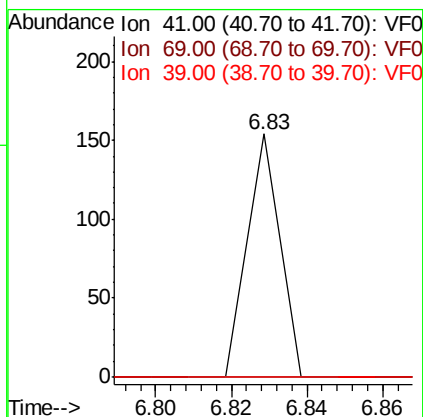
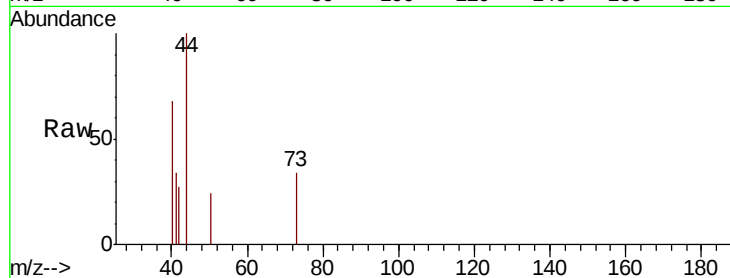




#48
Methyl methacrylate
Concen: 18.38 ug/l
RT: 6.83 min Scan# 639
Delta R.T. -0.05 min
Lab File: VF060106.D
Acq: 24 Aug 2018 18:07

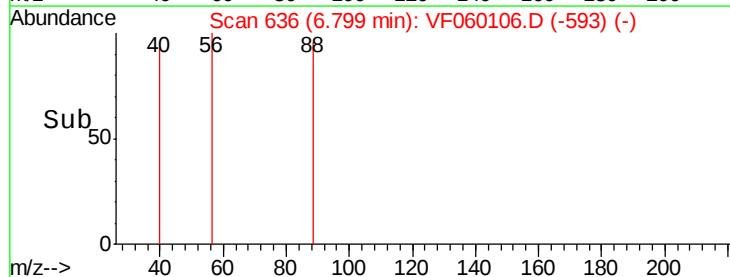
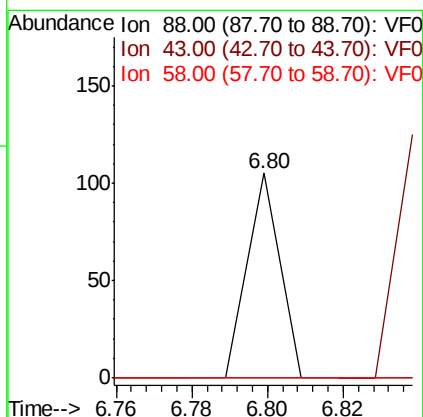
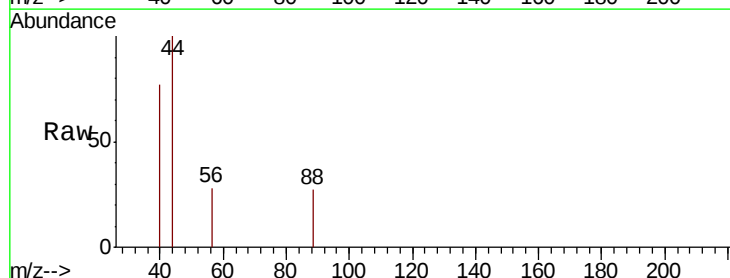
Instrument :
MSVOA_F
ClientSampleId :
CLIFFWOOD-EMBANKMENT-FILL

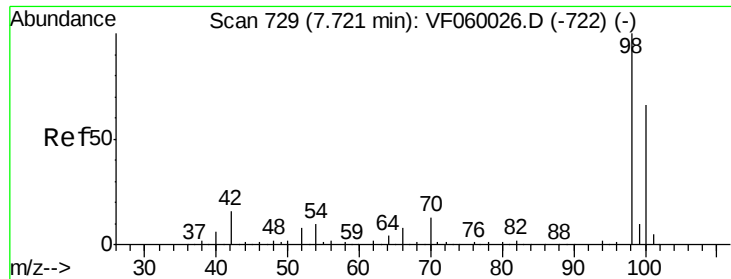
Tot Ion	Ratio	Lower	Upper
41	100		
69	0.0	54.6	81.8#
39	0.0	56.5	84.7#



#49
1,4-Dioxane
Concen: 1304.15 ug/l
RT: 6.80 min Scan# 636
Delta R.T. -0.07 min
Lab File: VF060106.D
Acq: 24 Aug 2018 18:07

Tgt Ion	Ratio	Lower	Upper
88	100		
43	0.0	46.5	69.7#
58	0.0	54.8	82.2#





#50

Toluene-d8

Concen: 24.75 ug/l

RT: 7.70 min Scan# 727

Delta R.T. -0.02 min

Lab File: VF060106.D

Acq: 24 Aug 2018 18:07

Instrument :

MSVOA_F

ClientSampleId :

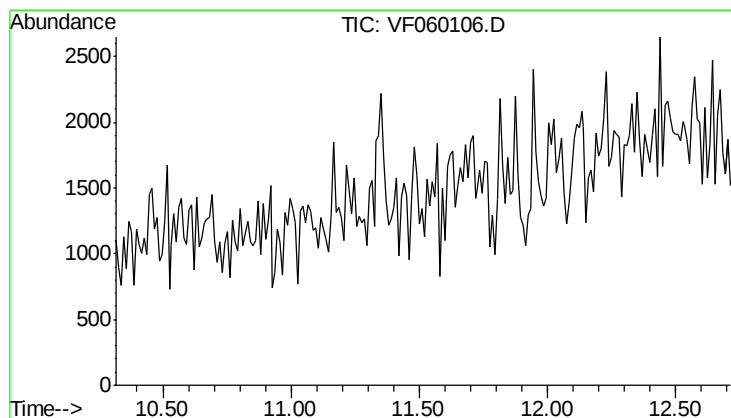
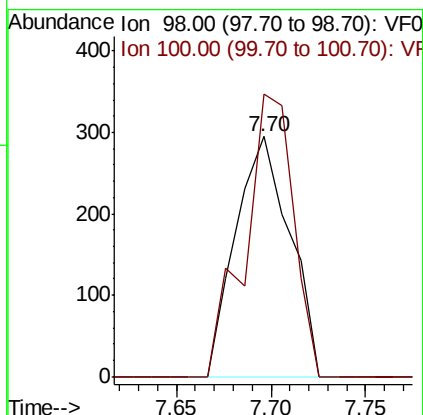
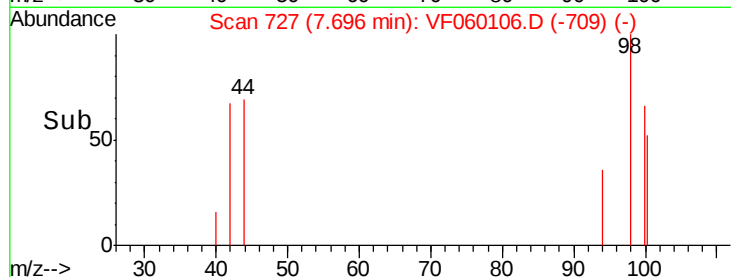
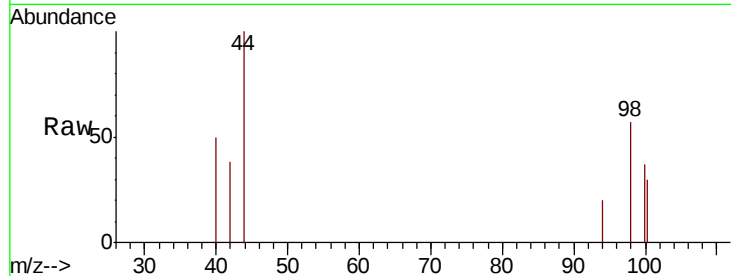
CLIFFWOOD-EMBANKMENT-FILL

Tot Ion: 98 Resp: 584

Ion Ratio Lower Upper

98 100

100 118.0 53.2 79.8#



#62

4-Bromofluorobenzene

Concen: 0.00 ug/l

Expected RT: 11.52 min

Lab File: VF060106.D

Acq: 24 Aug 2018 18:07

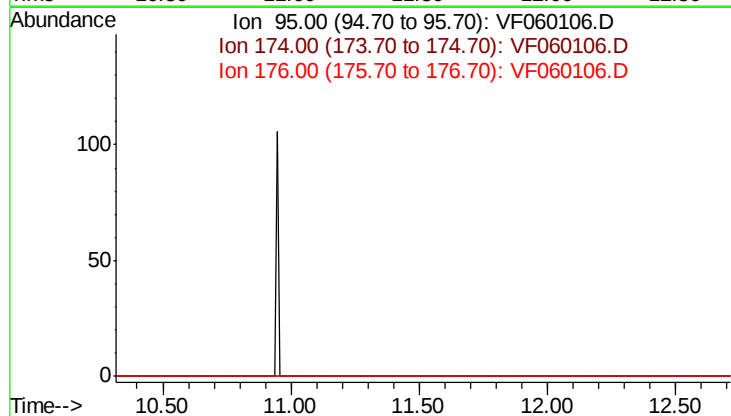
Tgt Ion: 95

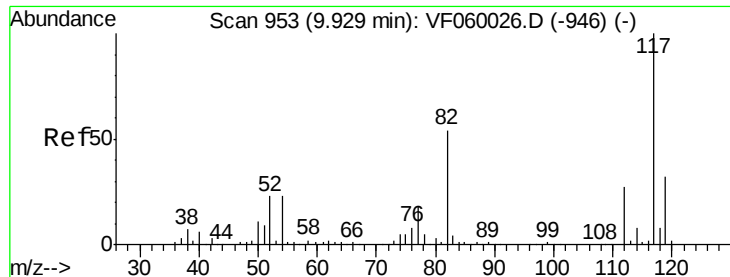
Sig Exp Ratio

95 100

174 79.2

176 76.5

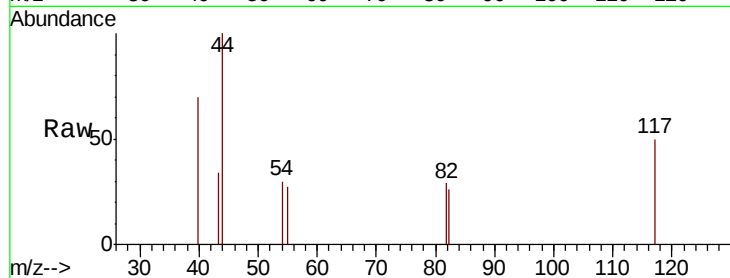




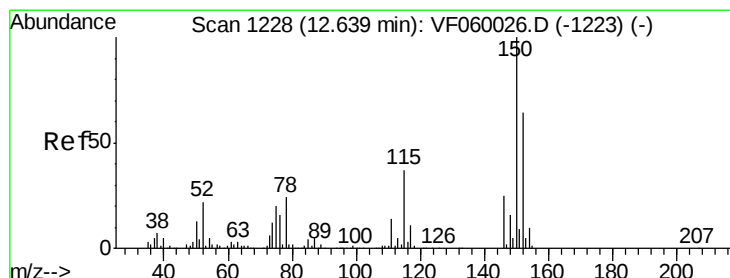
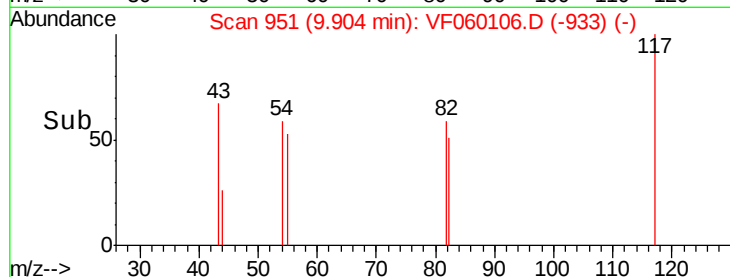
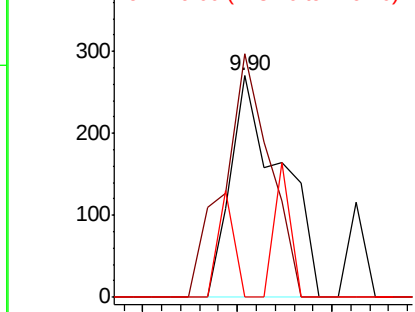
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 9.90 min Scan# 951
Delta R.T. -0.02 min
Lab File: VF060106.D
Acq: 24 Aug 2018 18:07

Instrument :
MSVOA_F
ClientSampleId :
CLIFFWOOD-EMBANKMENT-FILL

Tot Ion:117 Resp: 497
Ion Ratio Lower Upper
117 100
82 110.0 43.6 65.4#
119 0.0 25.6 38.4#

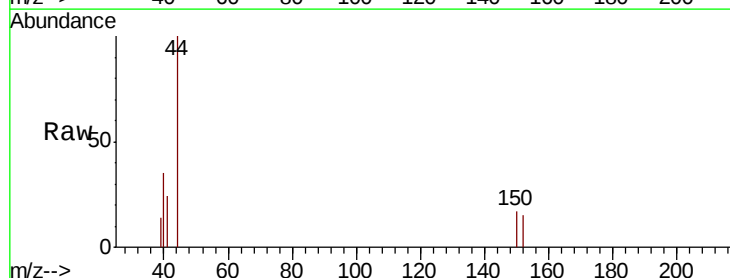


Abundance Ion 117.00 (116.70 to 117.70): V
Ion 82.00 (81.70 to 82.70): VF0
Ion 119.00 (118.70 to 119.70): V

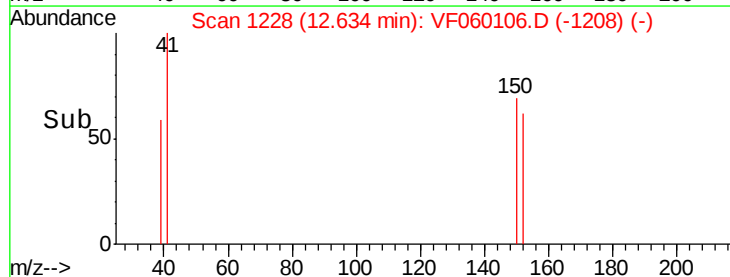
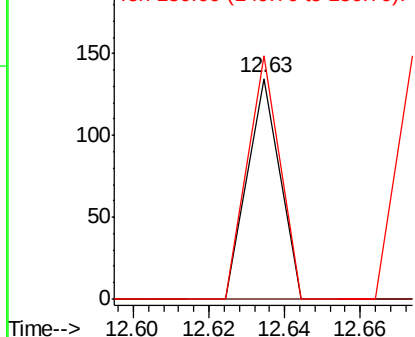


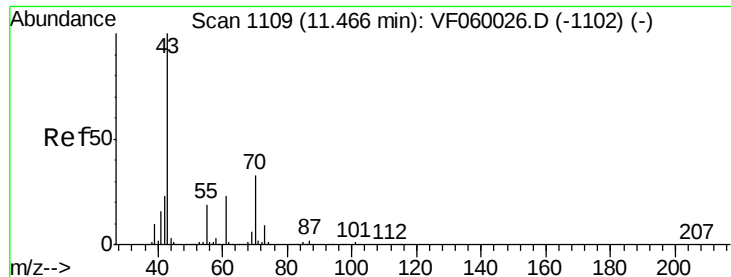
#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.63 min Scan# 1228
Delta R.T. -0.01 min
Lab File: VF060106.D
Acq: 24 Aug 2018 18:07

Tgt Ion:152 Resp: 80
Ion Ratio Lower Upper
152 100
115 0.0 28.6 85.9#
150 110.4 0.0 312.0



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-amvl acetate

Concen: 42.76 ug/l

RT: 11.51 min Scan# 1114

Delta R.T. 0.04 min

Lab File: VF060106.D

Acq: 24 Aug 2018 18:07

Instrument :

MSVOA_F

ClientSampleId :

CLIFFWOOD-EMBANKMENT-FILL

Tot Ion: 43 Resp: 64

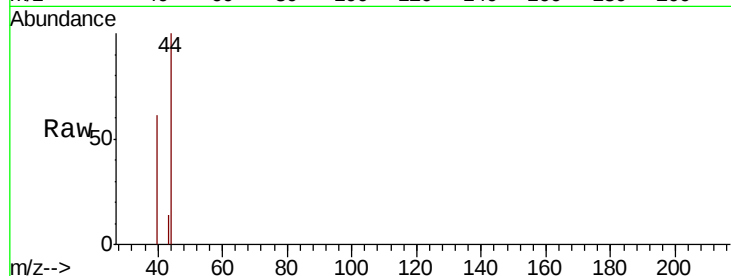
Ion Ratio Lower Upper

43 100

70 0.0 26.4 39.6#

55 0.0 15.0 22.4#

61 0.0 18.4 27.6#



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

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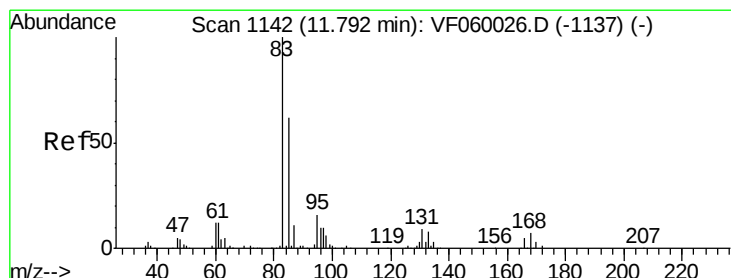
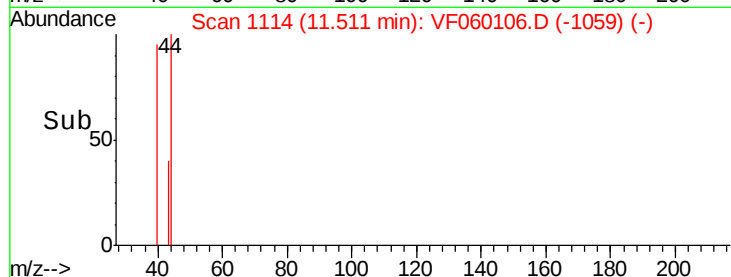
11.51

11.51

11.51

11.51

11.51



#75

1,1,2,2-Tetrachloroethane

Concen: 58.95 ug/l

RT: 11.62 min Scan# 1125

Delta R.T. -0.17 min

Lab File: VF060106.D

Acq: 24 Aug 2018 18:07

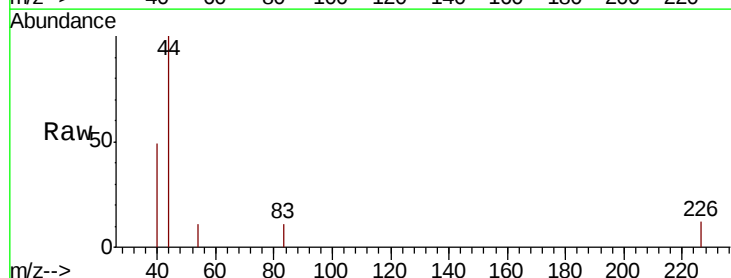
Tgt Ion: 83 Resp: 62

Ion Ratio Lower Upper

83 100

131 0.0 4.5 13.7#

85 0.0 31.3 93.9#



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

11.62

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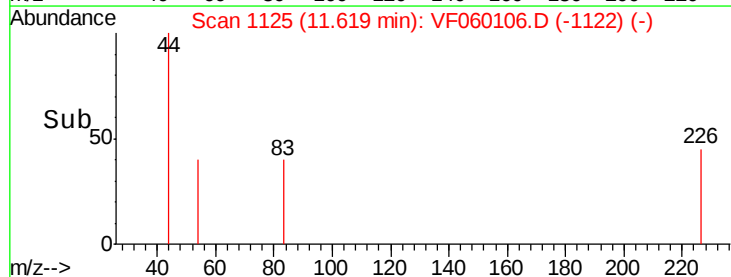
11.62

11.62

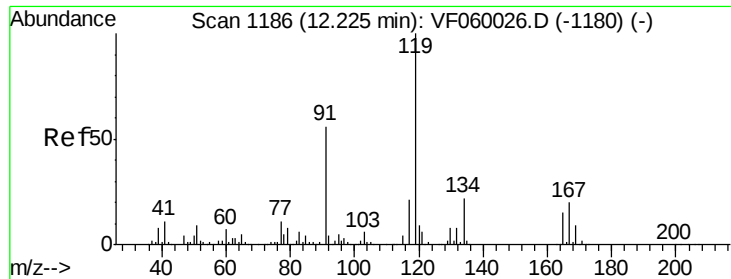
11.62

11.62

11.62



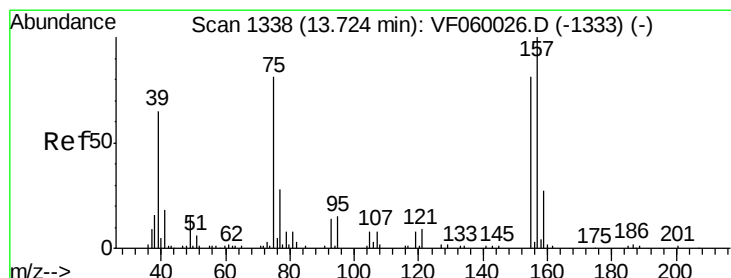
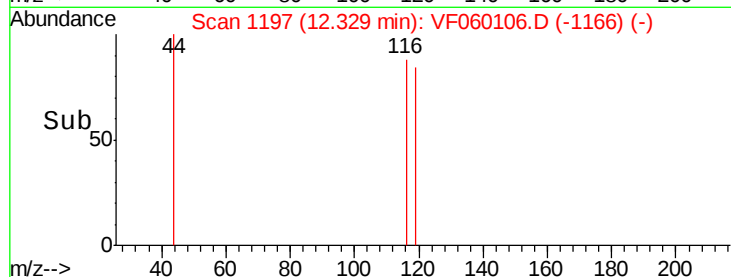
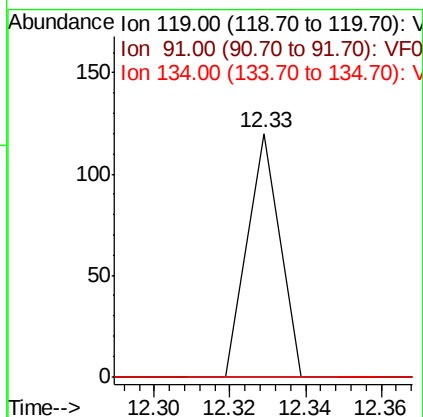
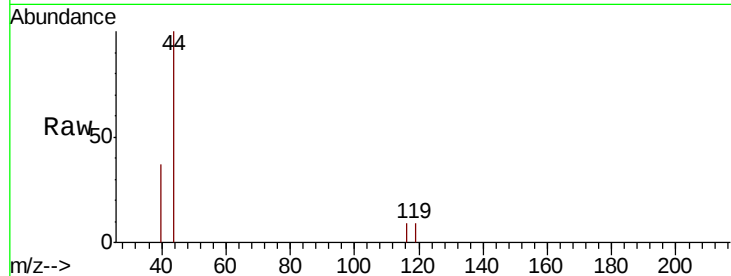
Time-->



#83
 tert-Butylbenzene
 Concen: 17.35 ug/l
 RT: 12.33 min Scan# 1197
 Delta R.T. 0.10 min
 Lab File: VF060106.D
 Acq: 24 Aug 2018 18:07

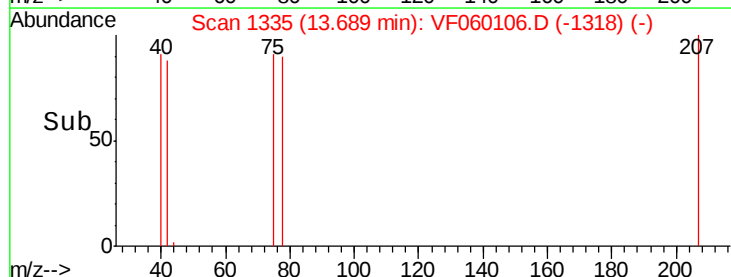
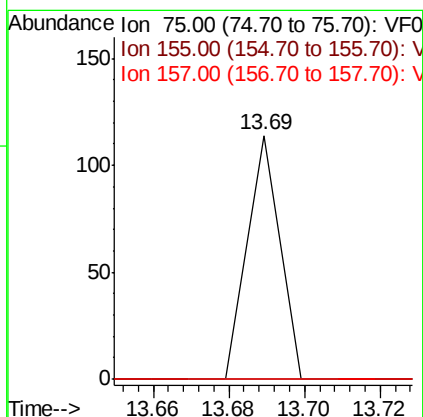
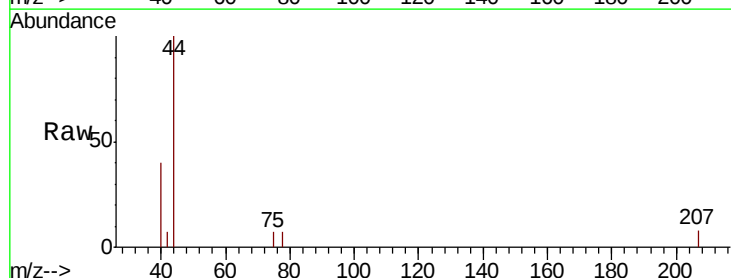
Instrument :
 MSVOA_F
 ClientSampleId :
 CLIFFWOOD-EMBANKMENT-FILL

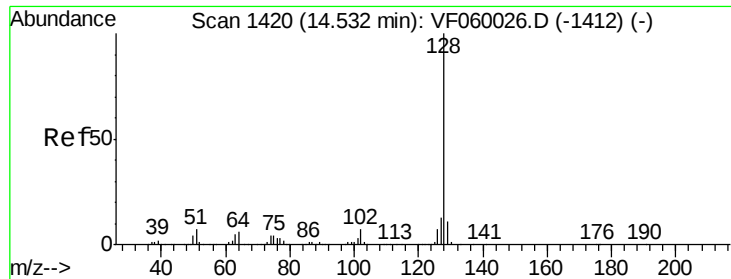
Tot Ion: 119 Resp: 71
 Ion Ratio Lower Upper
 119 100
 91 0.0 28.1 84.3#
 134 0.0 11.1 33.3#



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 311.75 ug/l
 RT: 13.69 min Scan# 1335
 Delta R.T. -0.03 min
 Lab File: VF060106.D
 Acq: 24 Aug 2018 18:07

Tgt Ion: 75 Resp: 67
 Ion Ratio Lower Upper
 75 100
 155 0.0 49.8 149.3#
 157 0.0 61.6 184.7#





#95

Naphthalene

Concen: 24.42 ug/l

RT: 14.60 min Scan# 1427

Delta R.T. 0.06 min

Lab File: VF060106.D

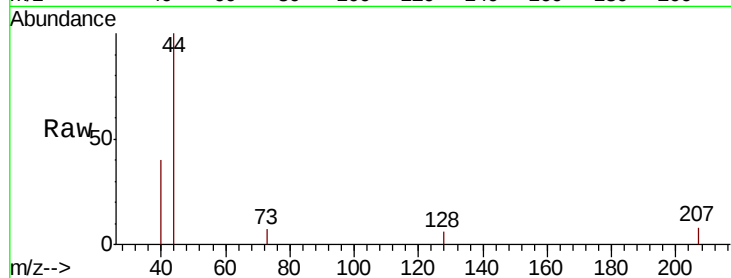
Acq: 24 Aug 2018 18:07

Instrument :

MSVOA_F

ClientSampleId :

CLIFFWOOD-EMBANKMENT-FILL



Tot Ion:128 Resp: 69

Ion Ratio Lower Upper

128 100

127 100.0 10.4 15.6#

129 0.0 8.5 12.7#

