

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF082418\
 Data File : VF060113.D
 Acq On : 24 Aug 2018 21:22
 Operator : VA/AP
 Sample : J4270-03
 Misc : 6.48g/5mL/MSVOA F/SOIL
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 BU-01-082318

Quant Time: Aug 25 03:48:37 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	5.01	168	457	50.00	ug/l	-0.04
34) 1,4-Difluorobenzene	5.76	114	618	50.00	ug/l	-0.02
63) Chlorobenzene-d5	9.91	117	138	50.00	ug/l	-0.02
72) 1,4-Dichlorobenzene-d4	0.00	152	0	0.00	ug/l	-12.64

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	0.00	65	0	0.00	ug/l	
Spiked Amount	50.000		Recovery	=	0.00%	
35) Dibromofluoromethane	4.29	113	126	25.96	ug/l	0.00
Spiked Amount	50.000		Recovery	=	51.92%	
50) Toluene-d8	7.69	98	374	27.14	ug/l	-0.03
Spiked Amount	50.000		Recovery	=	54.28%	
62) 4-Bromofluorobenzene	0.00	95	0	0.00	ug/l	
Spiked Amount	50.000		Recovery	=	0.00%	

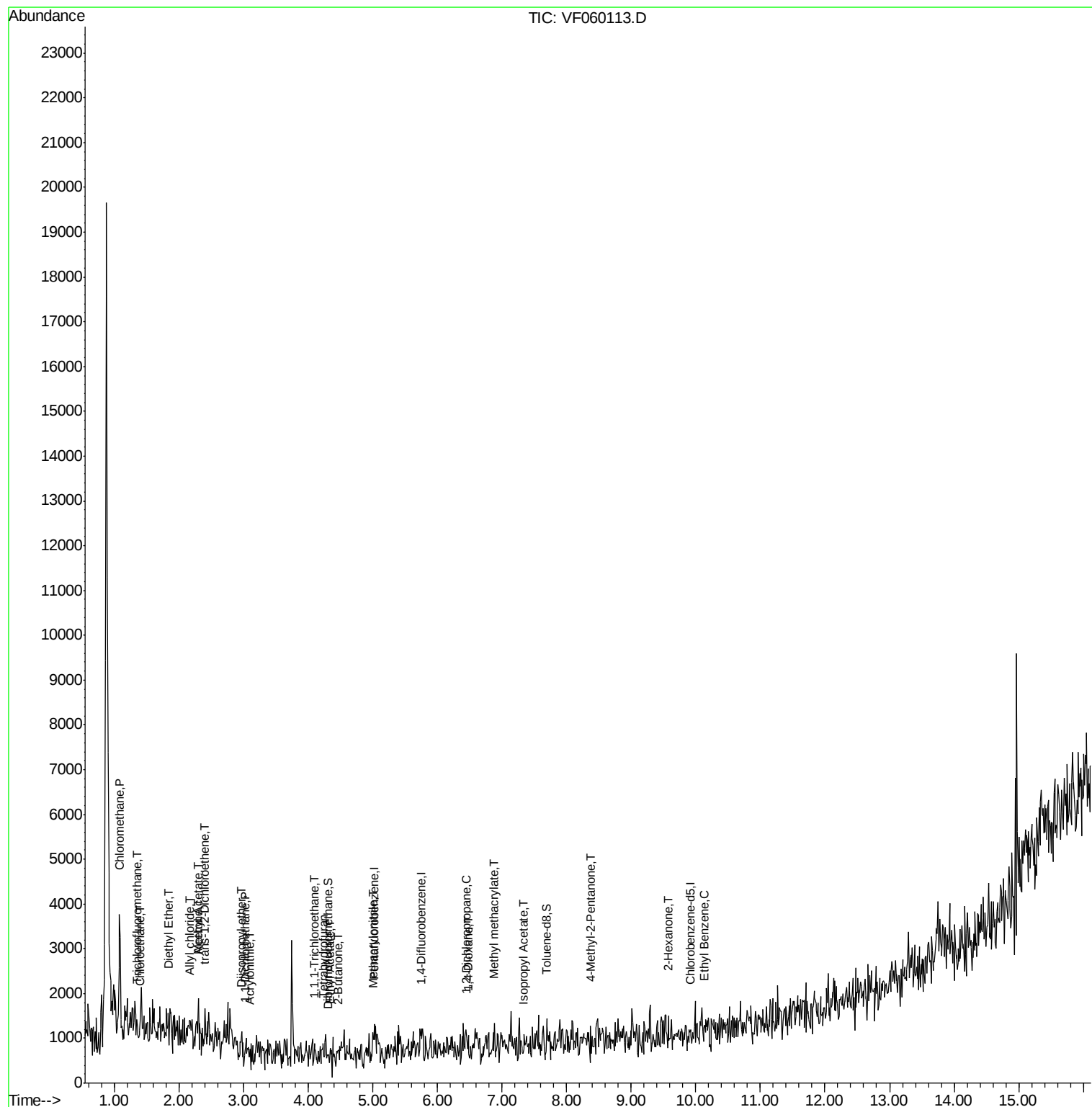
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.08	50	95	22.27	ug/l #	40
6) Chloroethane	1.38	64	746	506.61	ug/l #	45
7) Trichlorofluoromethane	1.36	101	63	8.39	ug/l #	17
8) Diethyl Ether	1.83	74	67	49.89	ug/l #	1
14) Allyl chloride	2.17	41	103	19.96	ug/l #	1
15) Acrylonitrile	3.10	53	66	100.51	ug/l #	11
16) Acetone	2.30	43	64	38.93	ug/l #	63
18) Methyl Acetate	2.30	43	64	20.36	ug/l #	60
21) trans-1,2-Dichloroethene	2.40	96	77	23.69	ug/l #	1
22) Diisopropyl ether	2.96	45	157	13.59	ug/l #	38
24) 1,1-Dichloroethane	3.02	63	64	8.97	ug/l #	89
25) 2-Butanone	4.46	43	63	29.51	ug/l #	58
29) Tetrahydrofuran	4.23	42	114	141.41	ug/l #	37
32) 1,1,1-Trichloroethane	4.09	97	80	9.33	ug/l #	23
37) Ethyl Acetate	4.34	43	92	26.49	ug/l #	1
41) Methacrylonitrile	5.00	41	60	34.15	ug/l #	23
43) Isopropyl Acetate	7.33	43	67	15.33	ug/l #	45
45) 1,2-Dichloropropane	6.46	63	64	17.83	ug/l #	45
48) Methyl methacrylate	6.87	41	63	21.78	ug/l #	43
49) 1,4-Dioxane	6.47	88	67	2412.72	ug/l #	18
51) 4-Methyl-2-Pentanone	8.36	43	221	58.54	ug/l #	39
59) 2-Hexanone	9.57	43	70	22.91	ug/l #	30
67) Ethyl Benzene	10.13	91	62	13.79	ug/l #	45

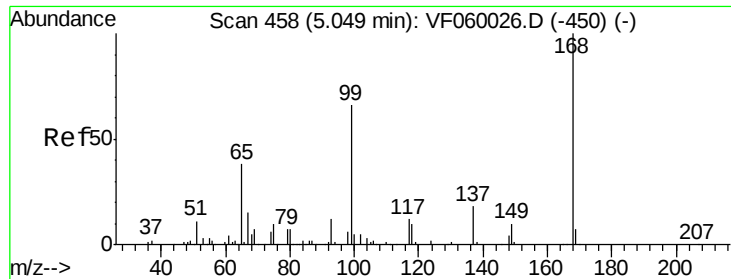
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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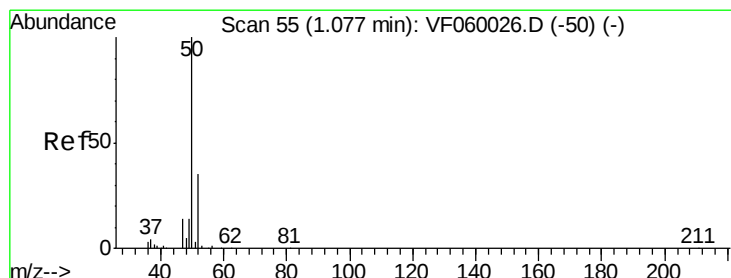
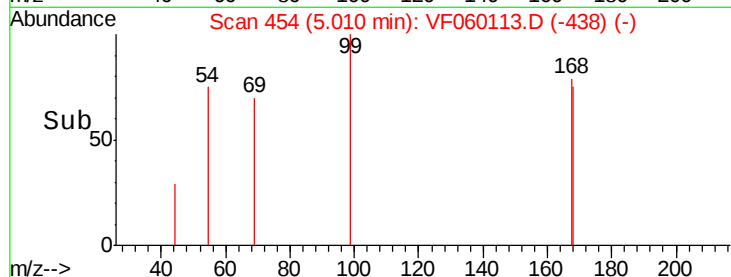
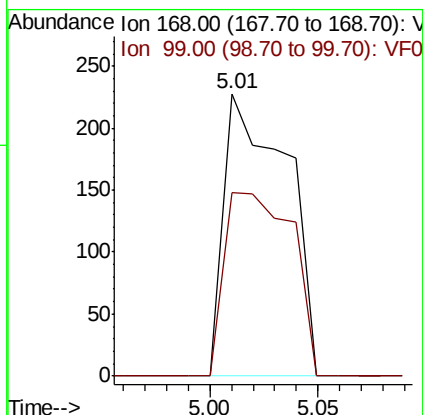
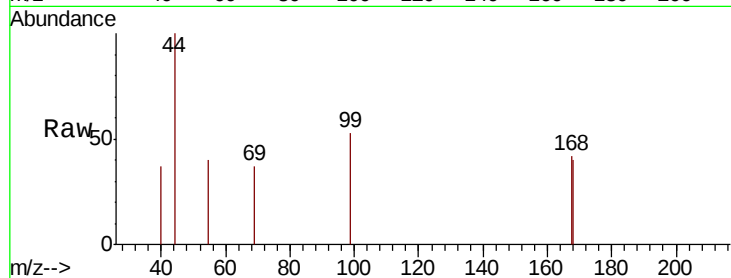




#1
Pentafluorobenzene
Concen: 50.00 ug/l
RT: 5.01 min Scan# 454
Delta R.T. -0.04 min
Lab File: VF060113.D
Acq: 24 Aug 2018 21:22

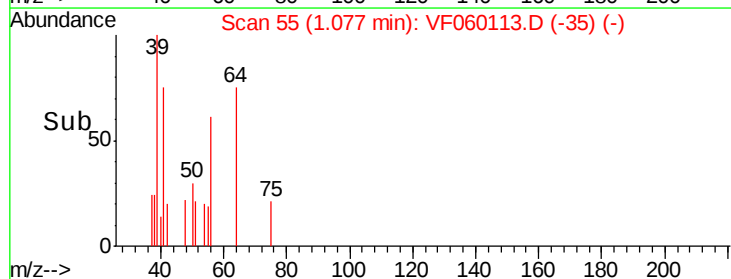
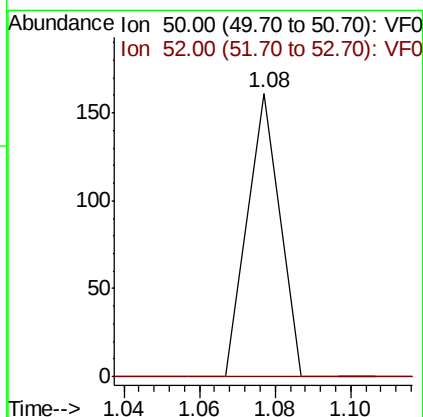
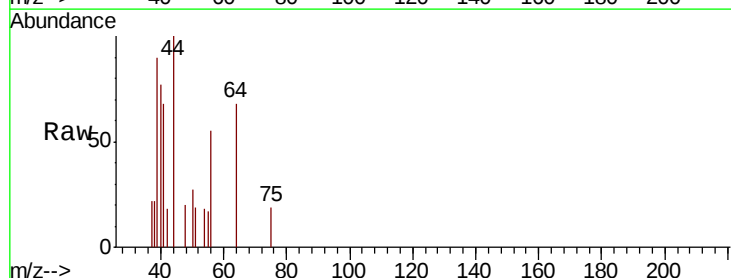
Instrument :
MSVOA_F
ClientSampleId :
BU-01-082318

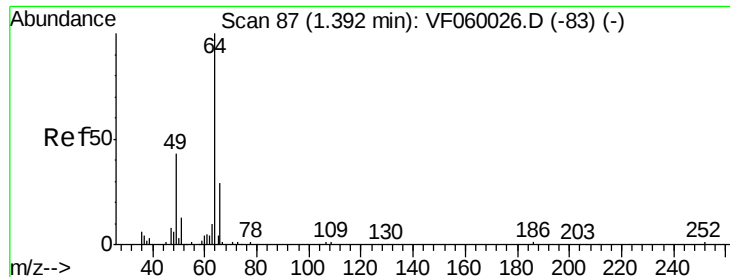
Tot Ion:168 Resp: 457
Ion Ratio Lower Upper
168 100
99 64.9 52.6 79.0



#3
Chloromethane
Concen: 22.27 ug/l
RT: 1.08 min Scan# 55
Delta R.T. 0.00 min
Lab File: VF060113.D
Acq: 24 Aug 2018 21:22

Tgt Ion: 50 Resp: 95
Ion Ratio Lower Upper
50 100
52 0.0 27.6 41.4#





#6

Chloroethane

Concen: 506.61 ug/l

RT: 1.38 min Scan# 86

Delta R.T. -0.01 min

Lab File: VF060113.D

Acq: 24 Aug 2018 21:22

Instrument :

MSVOA_F

ClientSampleId :

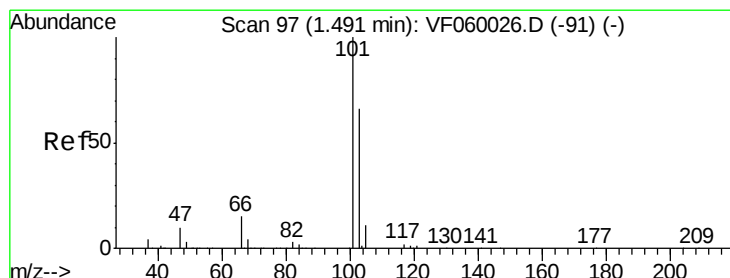
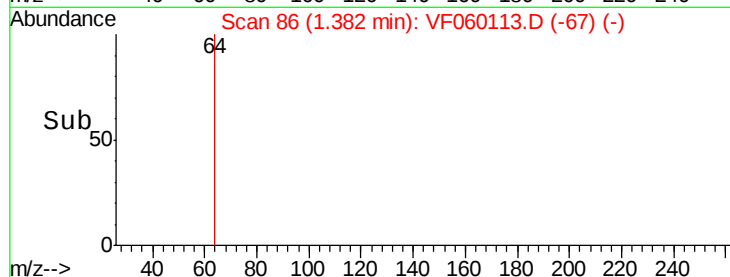
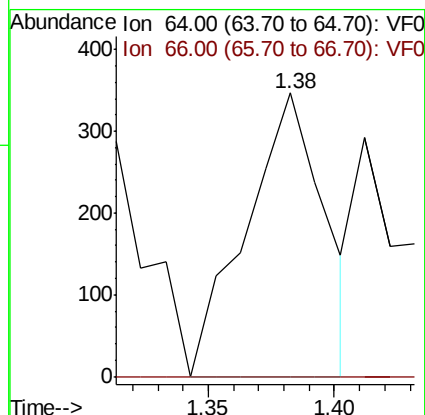
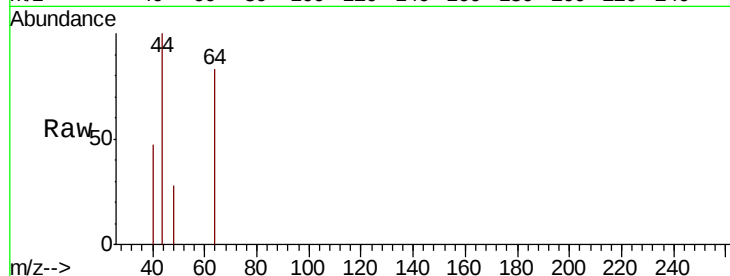
BU-01-082318

Tot Ion: 64 Resp: 746

Ion Ratio Lower Upper

64 100

66 0.0 24.1 36.1#



#7

Trichlorofluoromethane

Concen: 8.39 ug/l

RT: 1.36 min Scan# 84

Delta R.T. -0.13 min

Lab File: VF060113.D

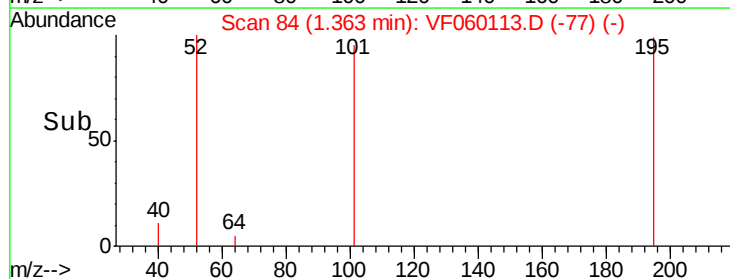
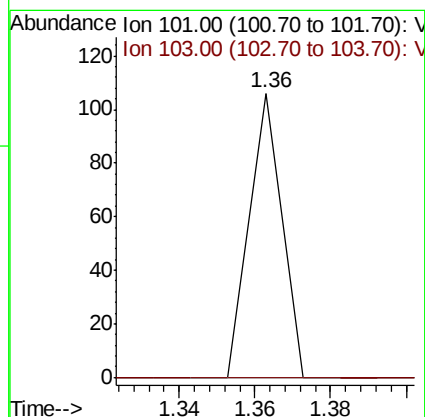
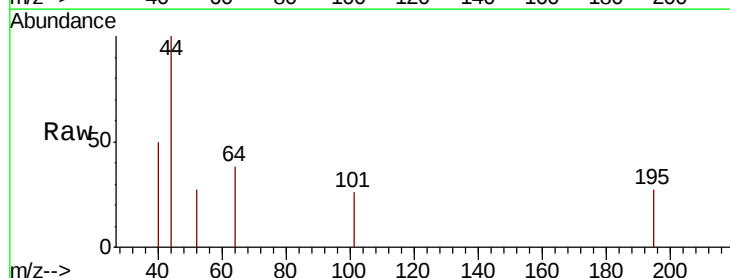
Acq: 24 Aug 2018 21:22

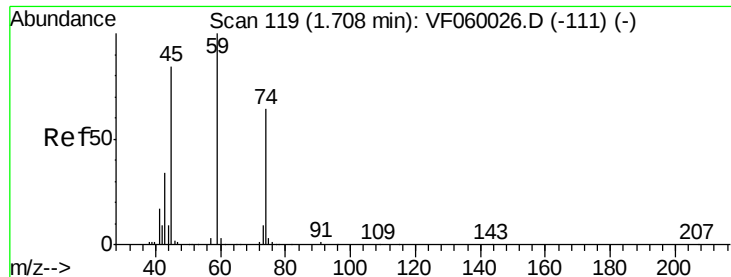
Tgt Ion: 101 Resp: 63

Ion Ratio Lower Upper

101 100

103 0.0 52.5 78.7#





#8

Diethyl Ether

Concen: 49.89 ug/l

RT: 1.83 min Scan# 131

Delta R.T. 0.12 min

Lab File: VF060113.D

Acq: 24 Aug 2018 21:22

Instrument :

MSVOA_F

ClientSampleId :

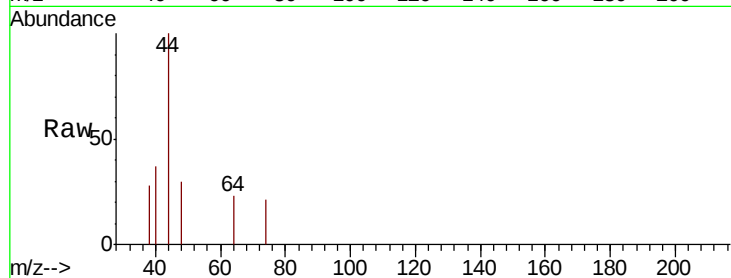
BU-01-082318

Tot Ion: 74 Resp: 67

Ion Ratio Lower Upper

74 100

45 0.0 66.0 198.0#



Abundance Ion 74.00 (73.70 to 74.70): VF0

Ion 45.00 (44.70 to 45.70): VF0

1.83

120

100

80

60

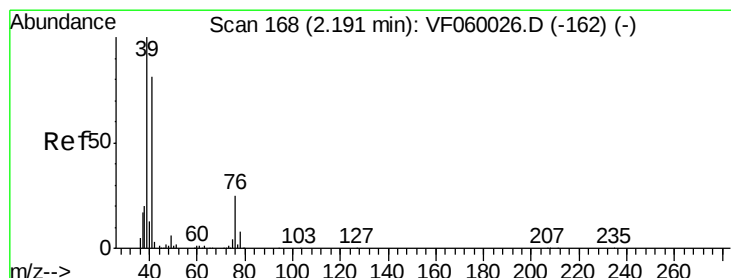
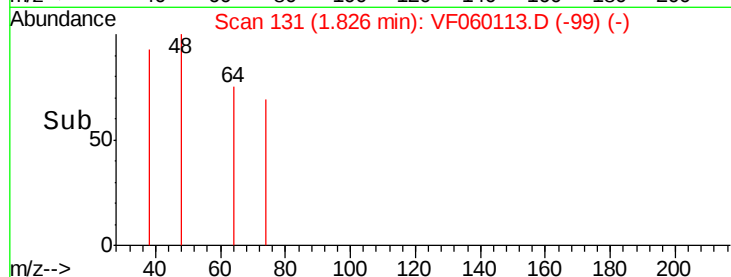
40

20

0

1.80 1.82 1.84 1.86

Time-->



#14

Allyl chloride

Concen: 19.96 ug/l

RT: 2.17 min Scan# 166

Delta R.T. -0.02 min

Lab File: VF060113.D

Acq: 24 Aug 2018 21:22

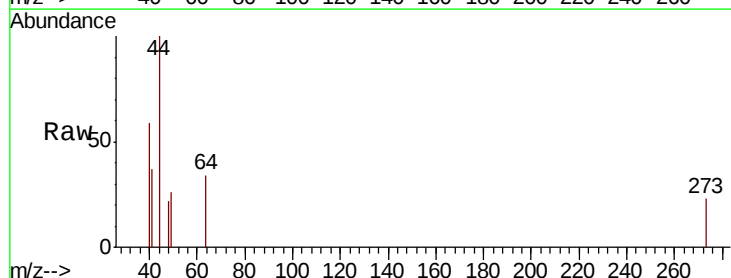
Tgt Ion: 41 Resp: 103

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

2.17

200

150

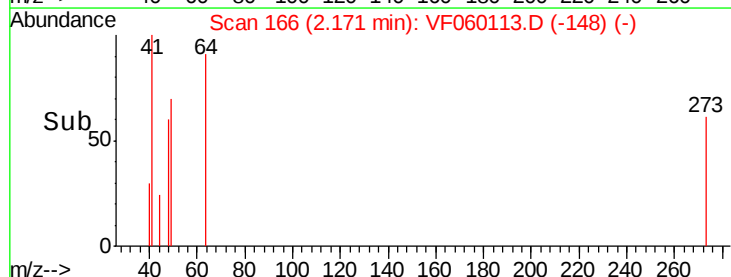
100

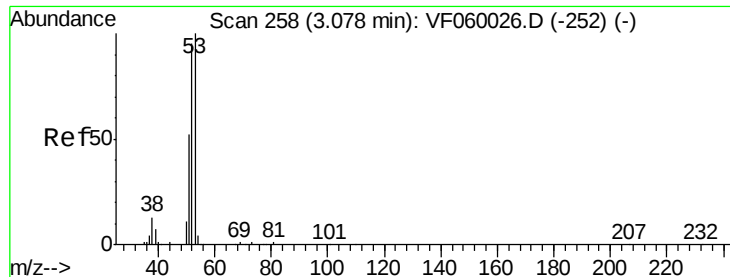
50

0

2.14 2.16 2.18 2.20

Time-->





#15

Acrylonitrile

Concen: 100.51 ug/l

RT: 3.10 min Scan# 260

Delta R.T. 0.02 min

Lab File: VF060113.D

Acq: 24 Aug 2018 21:22

Instrument :

MSVOA_F

ClientSampleId :

BU-01-082318

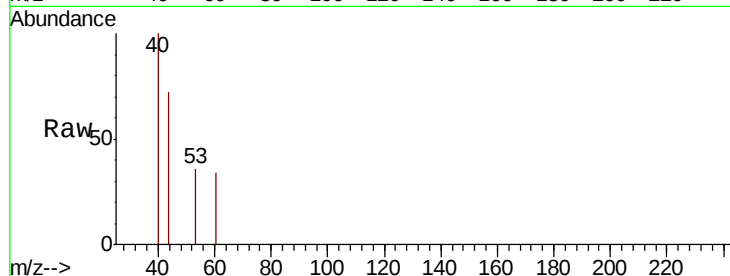
Tot Ion: 53 Resp: 66

Ion Ratio Lower Upper

53 100

52 0.0 75.8 113.8#

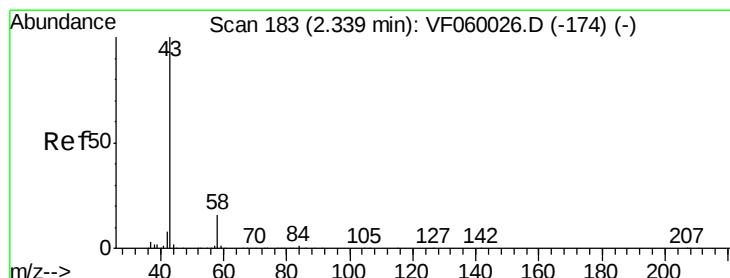
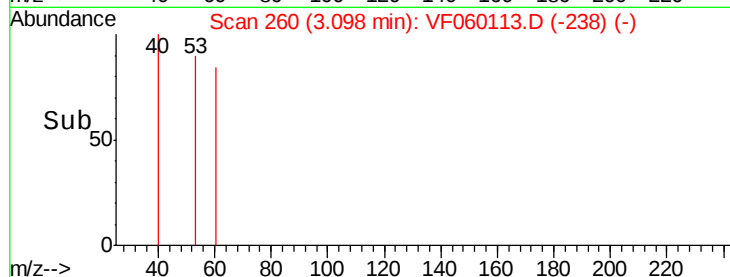
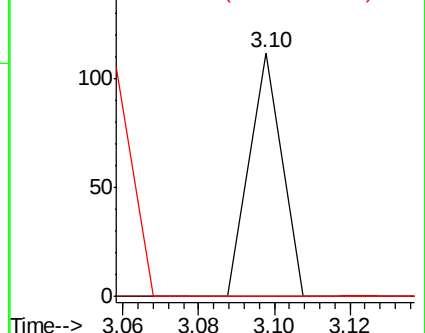
51 0.0 42.1 63.1#



Abundance Ion 53.00 (52.70 to 53.70): VF0

Ion 52.00 (51.70 to 52.70): VF0

Ion 51.00 (50.70 to 51.70): VF0



#16

Acetone

Concen: 38.93 ug/l

RT: 2.30 min Scan# 179

Delta R.T. -0.04 min

Lab File: VF060113.D

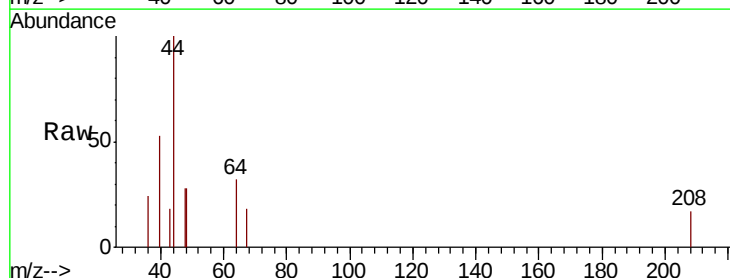
Acq: 24 Aug 2018 21:22

Tgt Ion: 43 Resp: 64

Ion Ratio Lower Upper

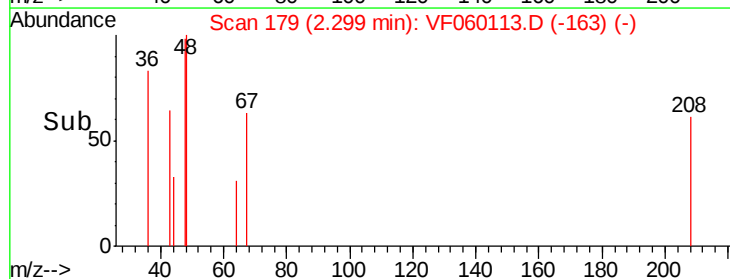
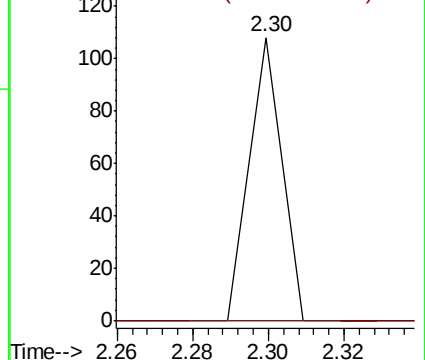
43 100

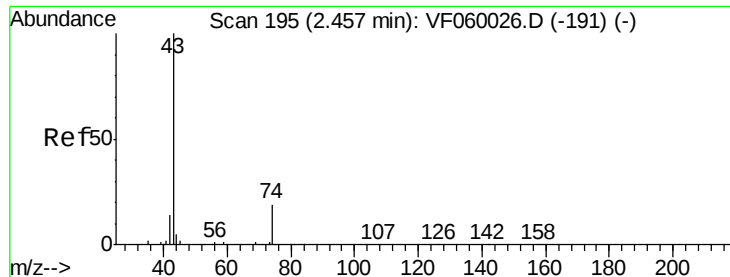
58 0.0 12.6 19.0#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0





#18

Methyl Acetate

Concen: 20.36 ug/l

RT: 2.30 min Scan# 179

Delta R.T. -0.16 min

Lab File: VF060113.D

Acq: 24 Aug 2018 21:22

Instrument :

MSVOA_F

ClientSampleId :

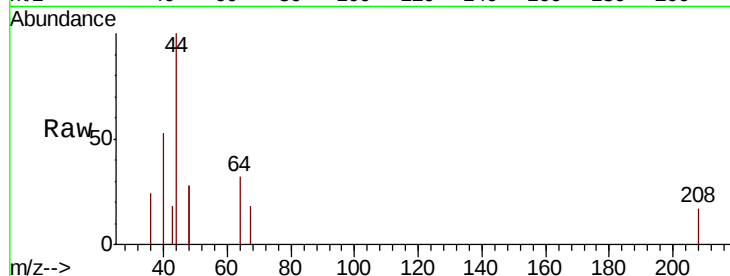
BU-01-082318

Tot Ion: 43 Resp: 64

Ion Ratio Lower Upper

43 100

74 0.0 13.8 20.6#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 74.00 (73.70 to 74.70): VF0

2.30

120

100

80

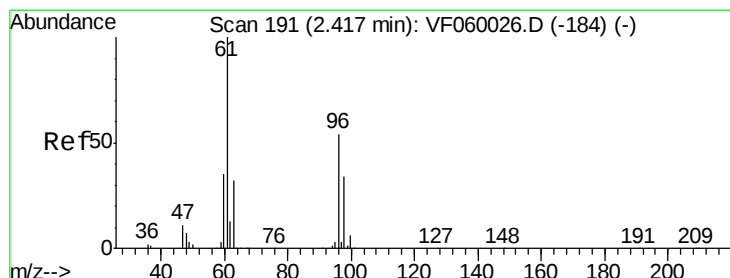
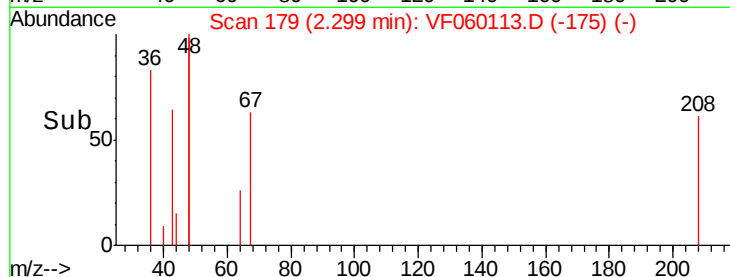
60

40

20

0

Time--> 2.26 2.28 2.30 2.32



#21

trans-1,2-Dichloroethene

Concen: 23.69 ug/l

RT: 2.40 min Scan# 189

Delta R.T. -0.02 min

Lab File: VF060113.D

Acq: 24 Aug 2018 21:22

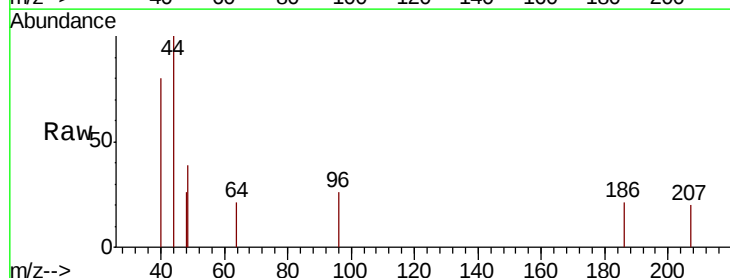
Tgt Ion: 96 Resp: 77

Ion Ratio Lower Upper

96 100

61 0.0 147.4 221.0#

98 0.0 49.8 74.6#



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

2.40

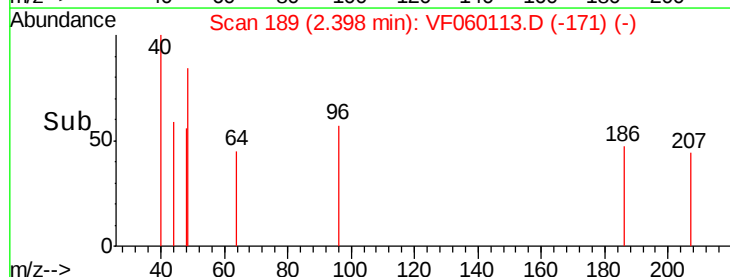
150

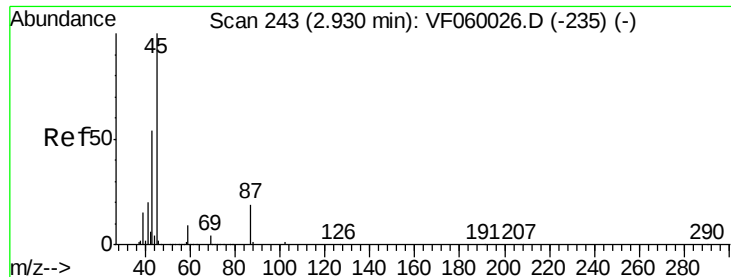
100

50

0

Time--> 2.36 2.38 2.40 2.42



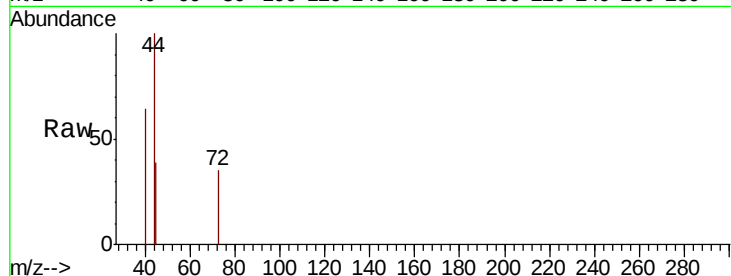


#22

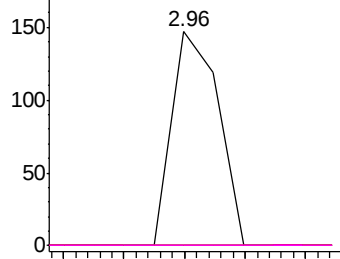
Diisopropyl ether
 Concen: 13.59 ug/l
 RT: 2.96 min Scan# 246
 Delta R.T. 0.03 min
 Lab File: VF060113.D
 Acq: 24 Aug 2018 21:22

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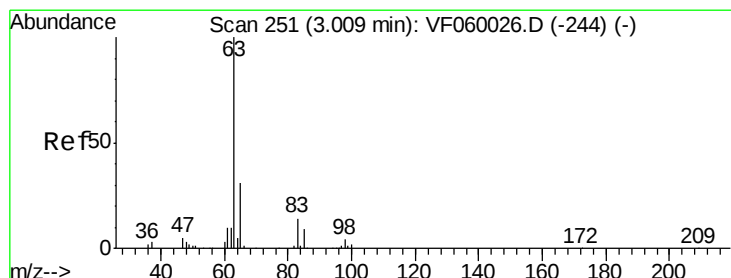
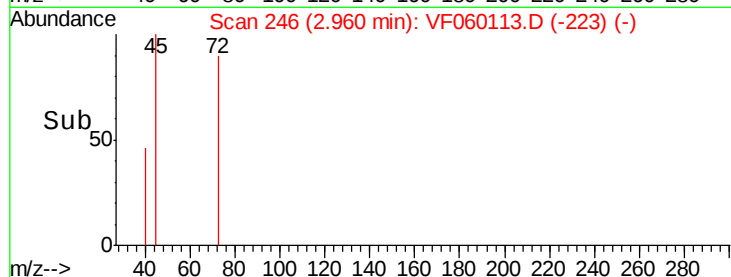
Tot Ion:	45	Resp:	157
Ion	Ratio	Lower	Upper
45	100		
43	0.0	43.4	65.2#
87	0.0	15.4	23.2#
59	0.0	7.5	11.3#



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



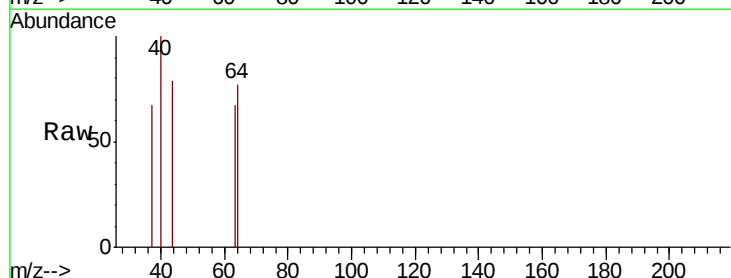
Time--> 2.92 2.94 2.96 2.98 3.00



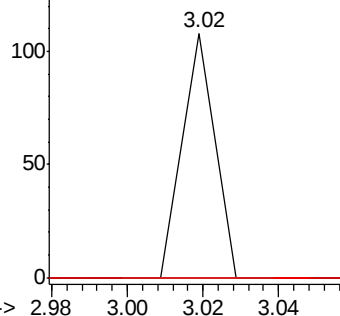
#24

1,1-Dichloroethane
 Concen: 8.97 ug/l
 RT: 3.02 min Scan# 252
 Delta R.T. 0.01 min
 Lab File: VF060113.D
 Acq: 24 Aug 2018 21:22

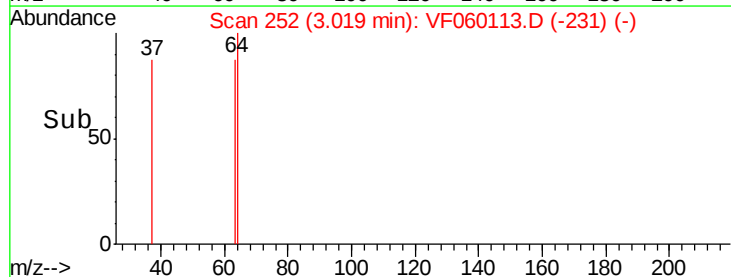
Tgt Ion:	63	Resp:	64
Ion	Ratio	Lower	Upper
63	100		
98	0.0	2.1	6.5#
100	0.0	1.1	3.3#

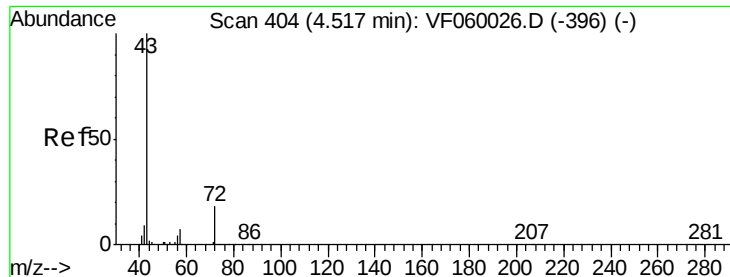


Abundance Ion 63.00 (62.70 to 63.70): VF0
 Ion 98.00 (97.70 to 98.70): VF0
 Ion 100.00 (99.70 to 100.70): VF0



Time--> 2.98 3.00 3.02 3.04





#25

2-Butanone

Concen: 29.51 ug/l

RT: 4.46 min Scan# 398

Delta R.T. -0.06 min

Lab File: VF060113.D

Acq: 24 Aug 2018 21:22

Instrument :

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ClientSampleId :

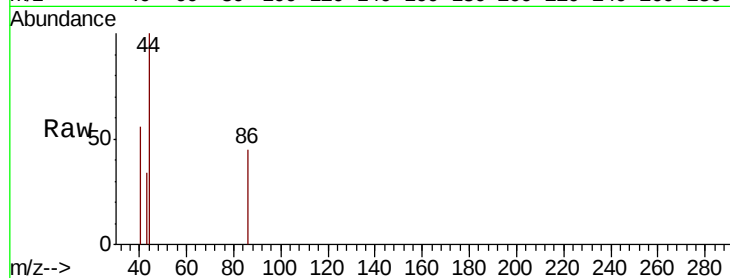
BU-01-082318

Tot Ion: 43 Resp: 63

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

4.46

120

100

80

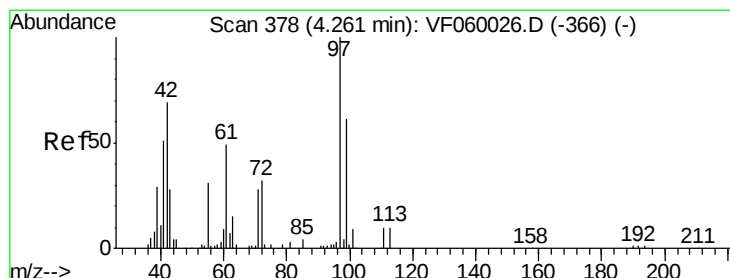
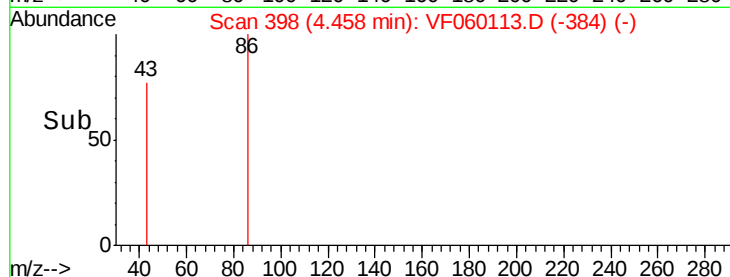
60

40

20

0

Time--> 4.42 4.44 4.46 4.48



#29

Tetrahydrofuran

Concen: 141.41 ug/l

RT: 4.23 min Scan# 375

Delta R.T. -0.03 min

Lab File: VF060113.D

Acq: 24 Aug 2018 21:22

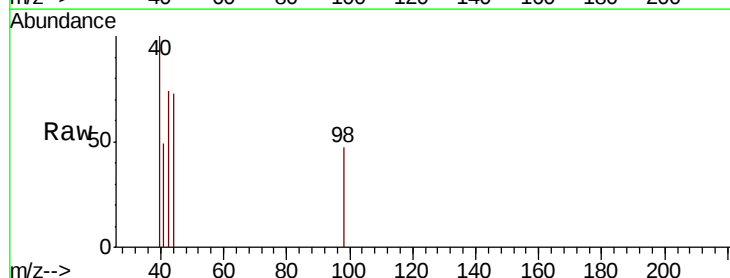
Tgt Ion: 42 Resp: 114

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

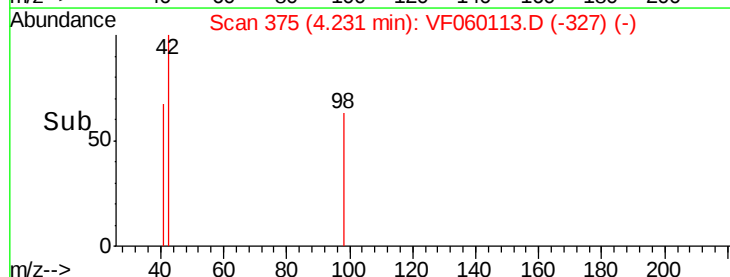
150

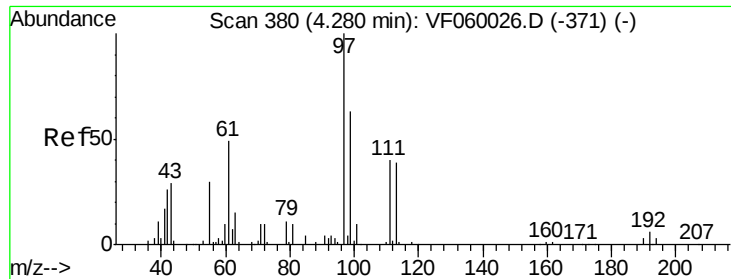
100

50

0

Time--> 4.20 4.22 4.24 4.26





#32

1,1,1-Trichloroethane

Concen: 9.33 ug/l

RT: 4.09 min Scan# 361

Delta R.T. -0.19 min

Lab File: VF060113.D

Acq: 24 Aug 2018 21:22

Instrument :

MSVOA_F

ClientSampleId :

BU-01-082318

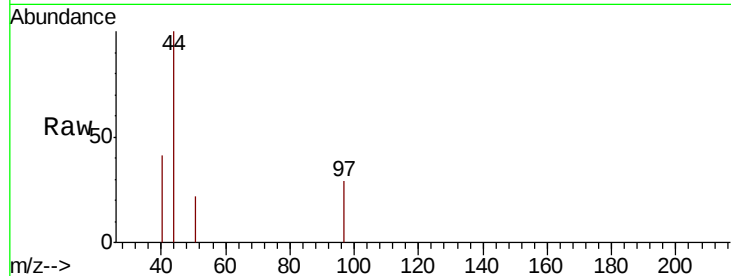
Tot Ion: 97 Resp: 80

Ion Ratio Lower Upper

97 100

99 0.0 50.3 75.5#

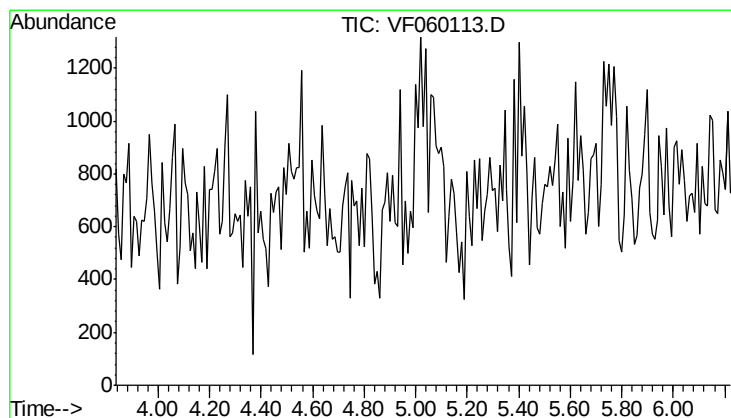
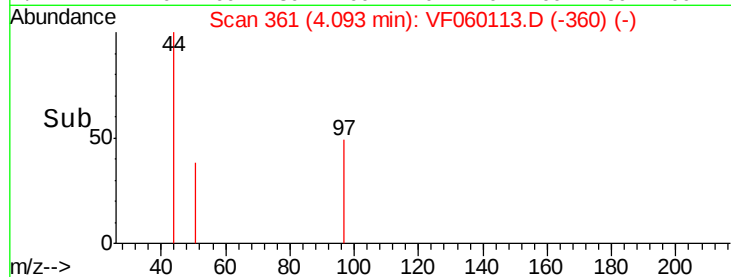
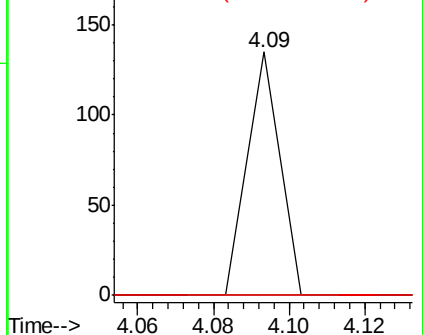
61 0.0 40.3 60.5#



Abundance Ion 97.00 (96.70 to 97.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

Ion 61.00 (60.70 to 61.70): VF0



#33

1,2-Dichloroethane-d4

Concen: 0.00 ug/l

Expected RT: 5.03 min

Lab File: VF060113.D

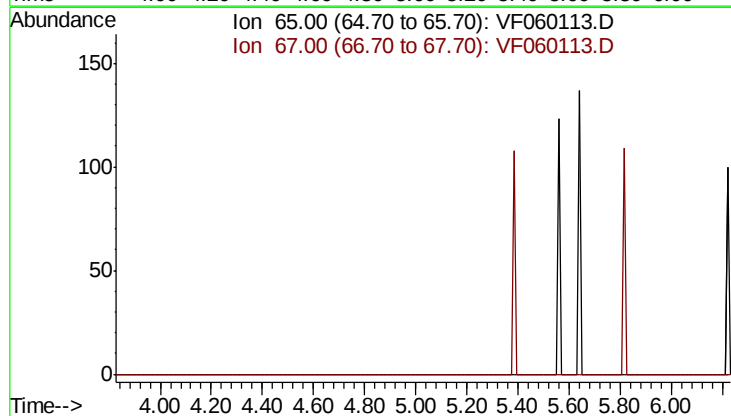
Acq: 24 Aug 2018 21:22

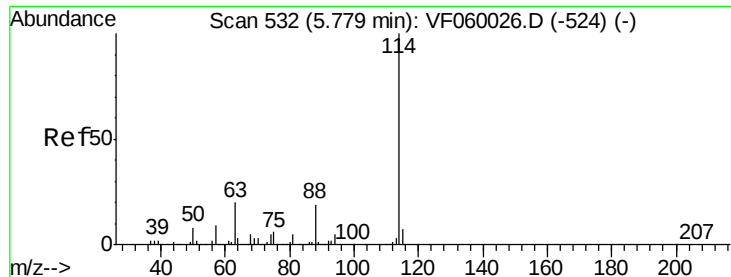
Tgt Ion: 65

Sig Exp Ratio

65 100

67 46.0





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 5.76 min Scan# 530

Delta R.T. -0.02 min

Lab File: VF060113.D

Acq: 24 Aug 2018 21:22

Instrument :

MSVOA_F

ClientSampleId :

BU-01-082318

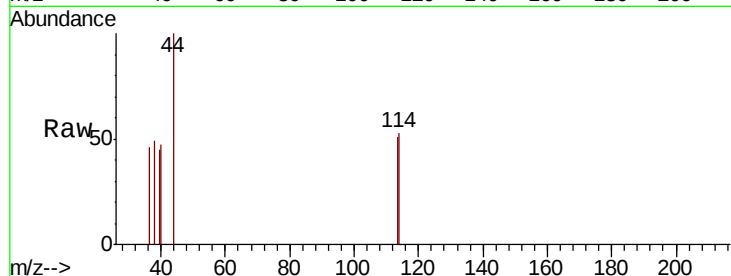
Tot Ion:114 Resp: 618

Ion Ratio Lower Upper

114 100

63 0.0 0.0 40.4

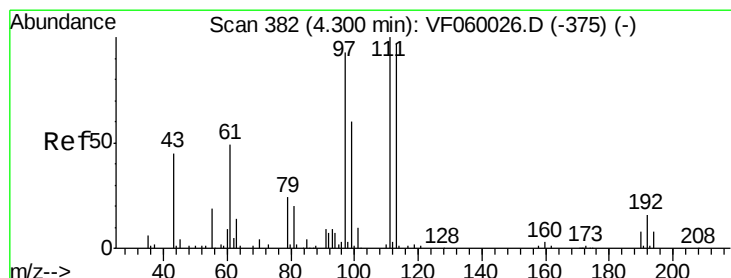
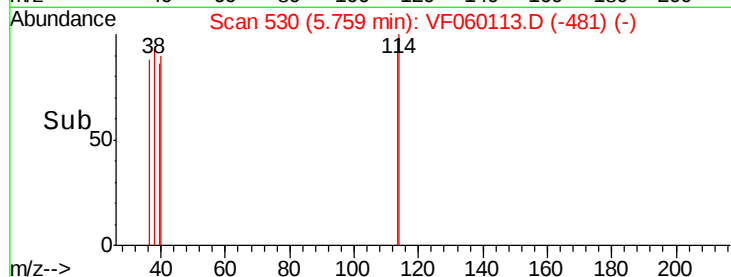
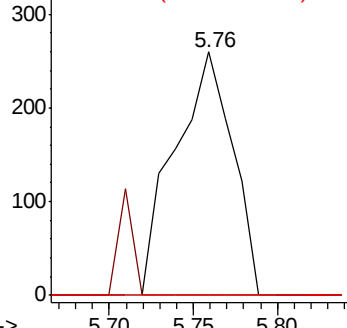
88 0.0 0.0 38.6



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: 25.96 ug/l

RT: 4.29 min Scan# 381

Delta R.T. -0.01 min

Lab File: VF060113.D

Acq: 24 Aug 2018 21:22

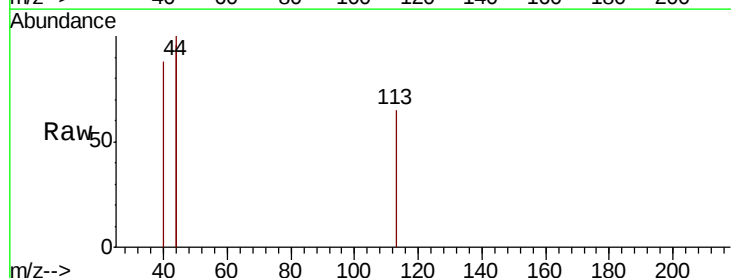
Tgt Ion:113 Resp: 126

Ion Ratio Lower Upper

113 100

111 0.0 82.7 124.1#

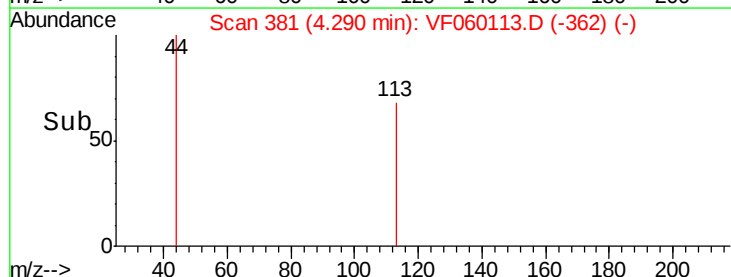
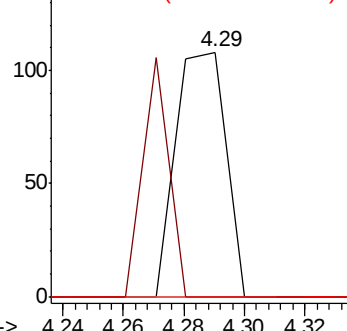
192 0.0 13.0 19.4#

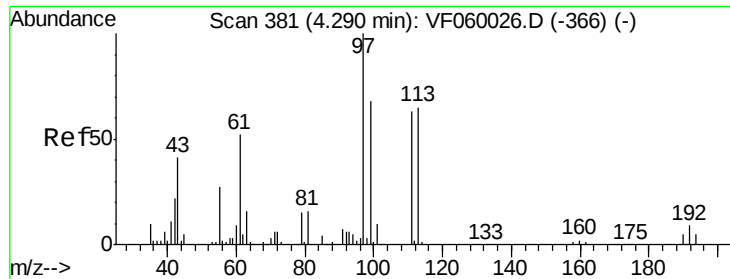


Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V

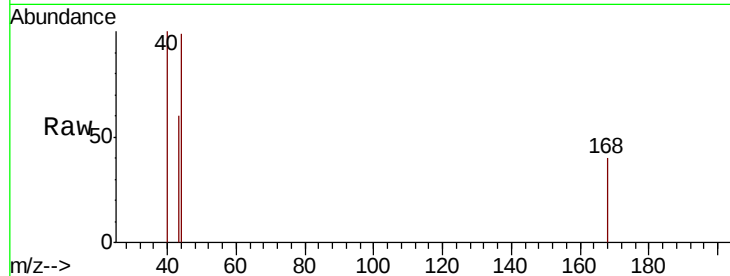




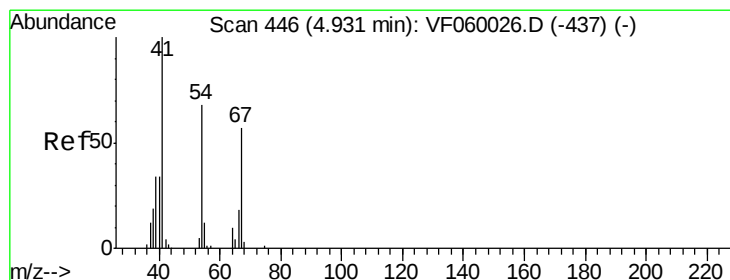
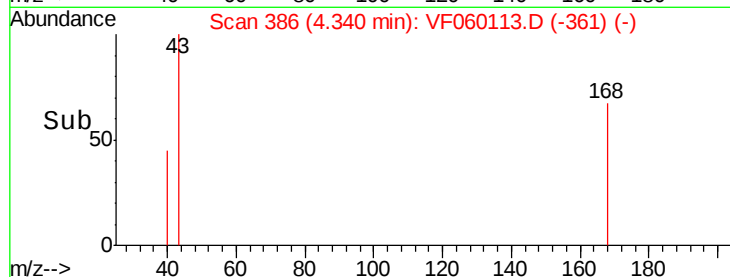
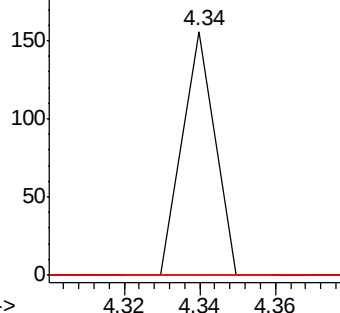
#37
Ethyl Acetate
Concen: 26.49 ug/l
RT: 4.34 min Scan# 386
Delta R.T. 0.05 min
Lab File: VF060113.D
Acq: 24 Aug 2018 21:22

Instrument :
MSVOA_F
ClientSampleId :
BU-01-082318

Tot Ion: 43 Resp: 92
Ion Ratio Lower Upper
43 100
61 0.0 101.5 152.3#
70 0.0 6.4 9.6#

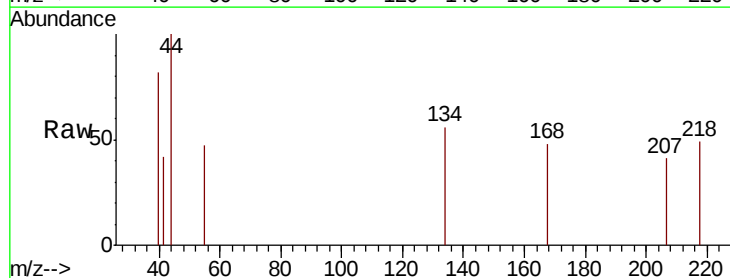


Abundance Ion 43.00 (42.70 to 43.70): VF0
Ion 61.00 (60.70 to 61.70): VF0
Ion 70.00 (69.70 to 70.70): VF0

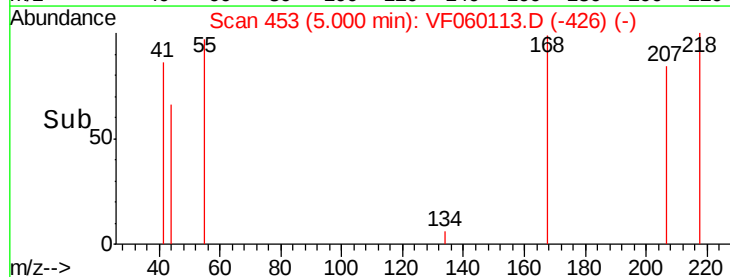
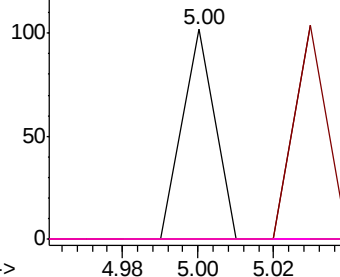


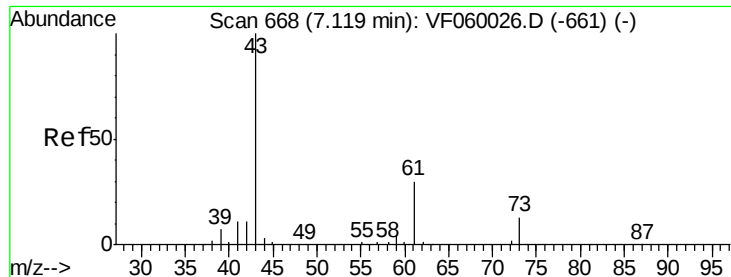
#41
Methacrylonitrile
Concen: 34.15 ug/l
RT: 5.00 min Scan# 453
Delta R.T. 0.07 min
Lab File: VF060113.D
Acq: 24 Aug 2018 21:22

Tgt Ion: 41 Resp: 60
Ion Ratio Lower Upper
41 100
39 0.0 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



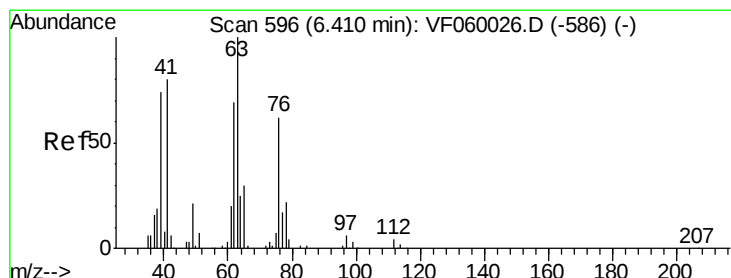
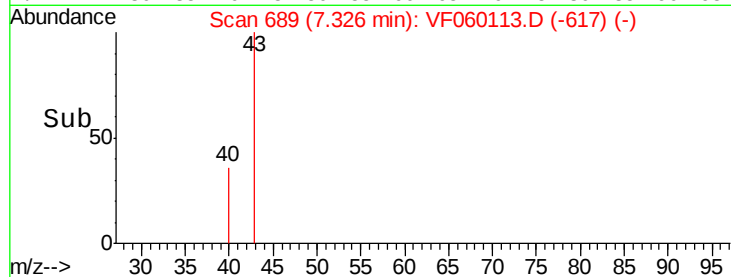
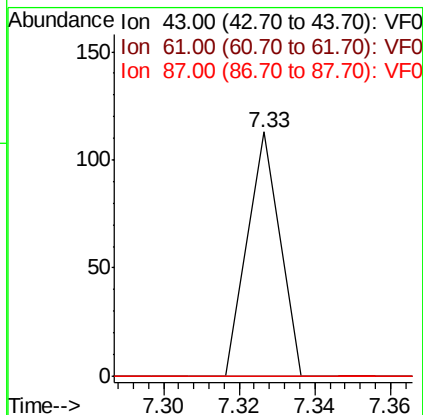
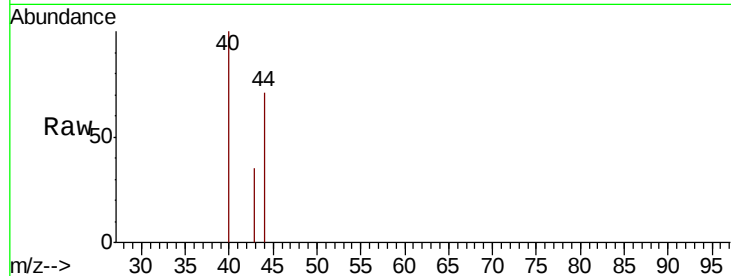


#43

Isopropyl Acetate
 Concen: 15.33 ug/l
 RT: 7.33 min Scan# 689
 Delta R.T. 0.21 min
 Lab File: VF060113.D
 Acq: 24 Aug 2018 21:22

Instrument :
 MSVOA_F
 ClientSampleID :
 BU-01-082318

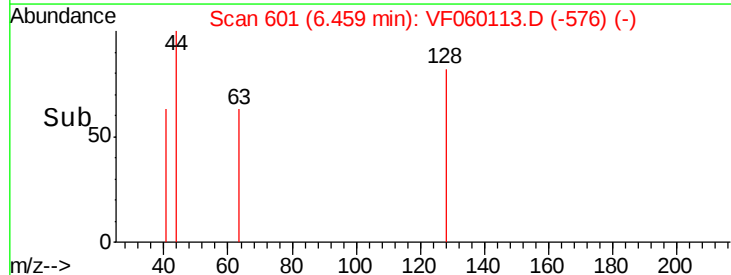
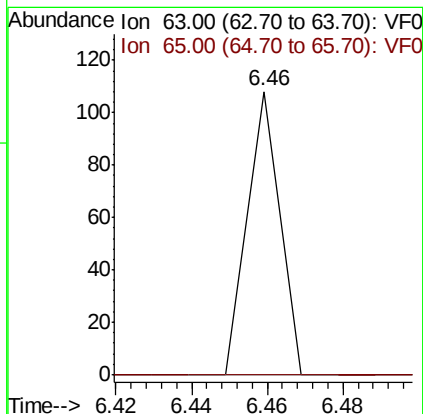
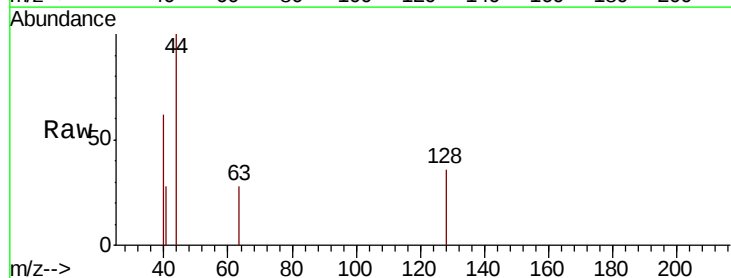
Tot Ion	Ratio	Lower	Upper
43	100		
61	0.0	23.8	35.6#
87	0.0	0.2	0.4#

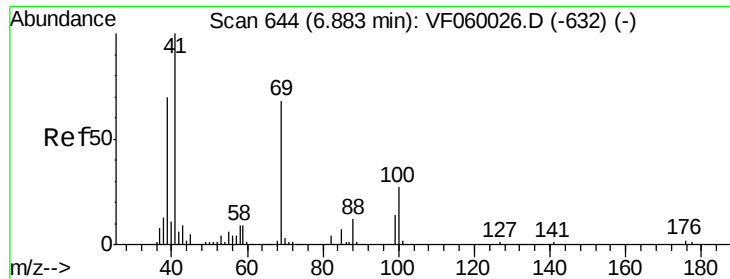


#45

1,2-Dichloropropane
 Concen: 17.83 ug/l
 RT: 6.46 min Scan# 601
 Delta R.T. 0.05 min
 Lab File: VF060113.D
 Acq: 24 Aug 2018 21:22

Tgt Ion	Ratio	Lower	Upper
63	100		
65	0.0	23.8	35.6#

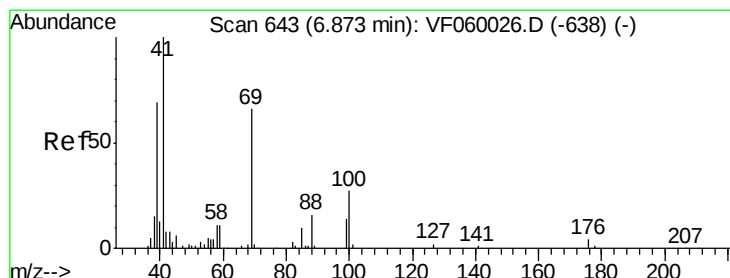
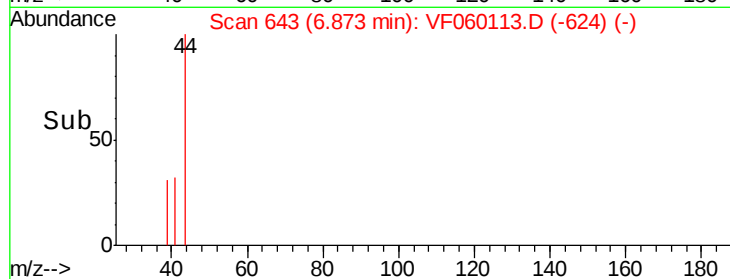
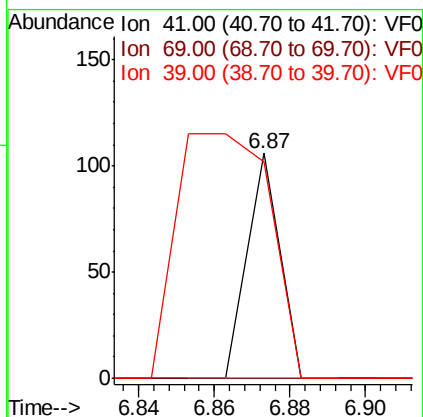
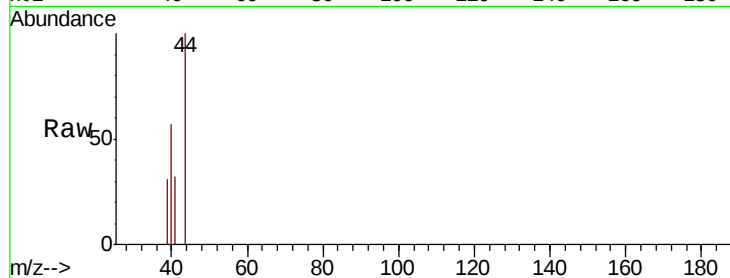




#48
Methvl methacrylate
Concen: 21.78 ug/l
RT: 6.87 min Scan# 643
Delta R.T. -0.01 min
Lab File: VF060113.D
Acq: 24 Aug 2018 21:22

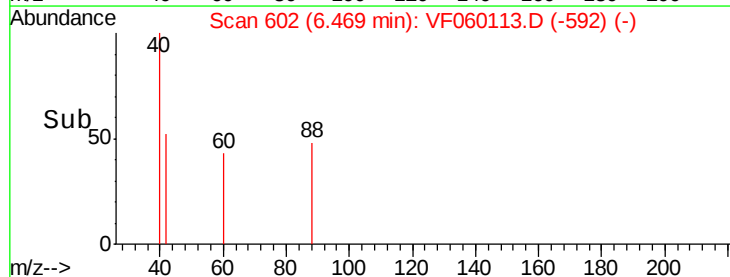
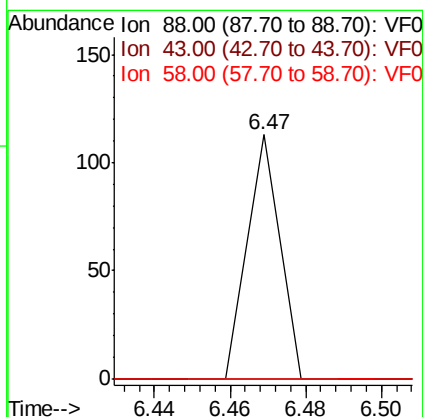
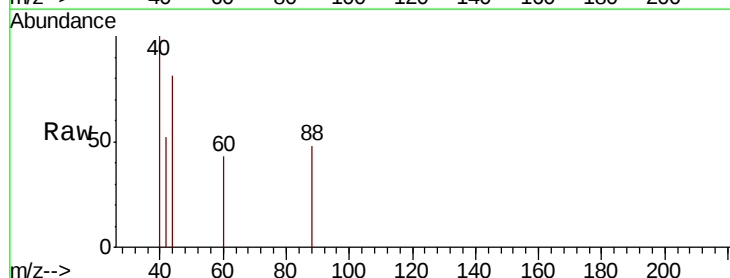
Instrument :
MSVOA_F
ClientSampleId :
BU-01-082318

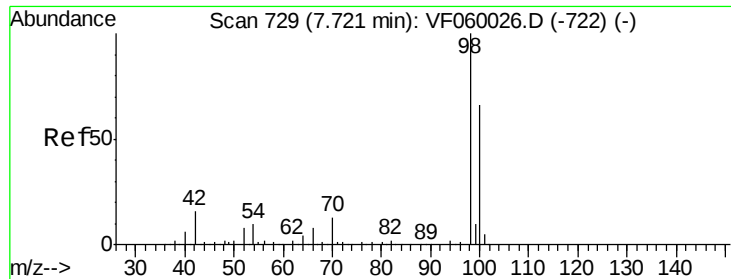
Tot Ion	Ratio	Lower	Upper
41	100		
69	0.0	54.6	81.8#
39	96.2	56.5	84.7#



#49
1,4-Dioxane
Concen: 2412.72 ug/l
RT: 6.47 min Scan# 602
Delta R.T. -0.40 min
Lab File: VF060113.D
Acq: 24 Aug 2018 21:22

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: 27.14 ug/l

RT: 7.69 min Scan# 726

Delta R.T. -0.03 min

Lab File: VF060113.D

Acq: 24 Aug 2018 21:22

Instrument :

MSVOA_F

ClientSampleId :

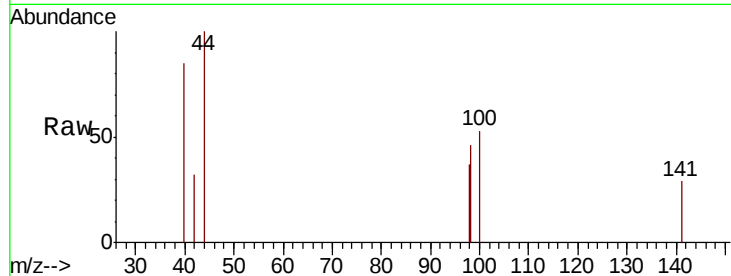
BU-01-082318

Tot Ion: 98 Resp: 374

Ion Ratio Lower Upper

98 100

100 64.1 53.2 79.8



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF

7.69

300

200

100

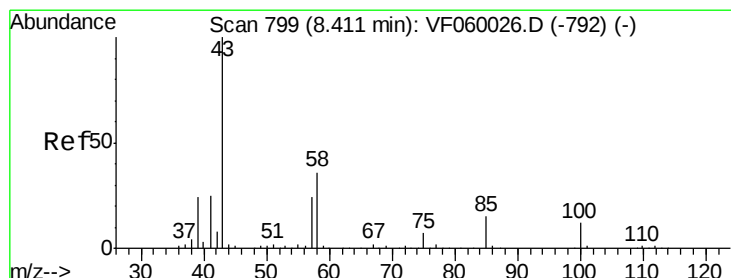
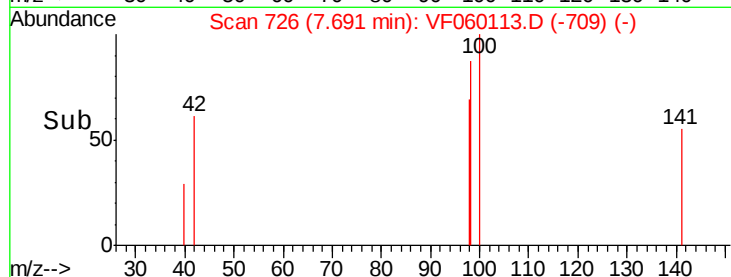
0

Time-->

7.65

7.70

7.75



#51

4-Methyl-2-Pentanone

Concen: 58.54 ug/l

RT: 8.36 min Scan# 794

Delta R.T. -0.05 min

Lab File: VF060113.D

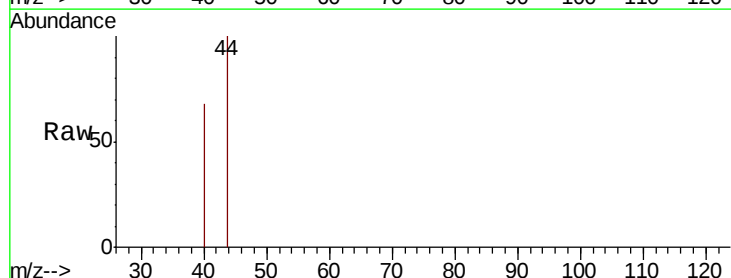
Acq: 24 Aug 2018 21:22

Tgt Ion: 43 Resp: 221

Ion Ratio Lower Upper

43 100

58 0.0 28.6 42.8#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

8.36

300

250

200

150

100

50

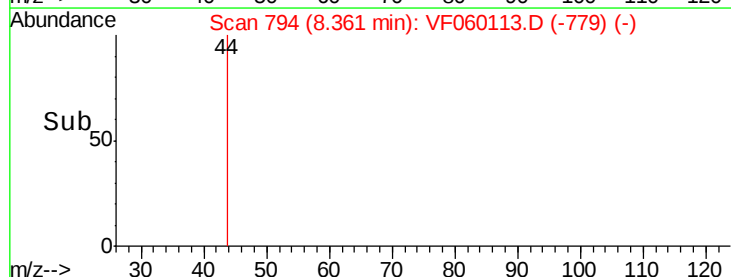
0

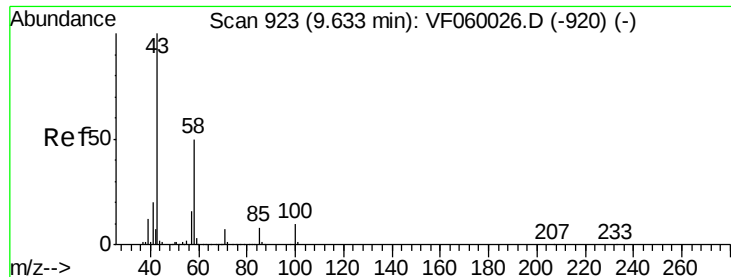
Time-->

8.34

8.36

8.38





#59

2-Hexanone

Concen: 22.91 ug/l

RT: 9.57 min Scan# 917

Delta R.T. -0.06 min

Lab File: VF060113.D

Acq: 24 Aug 2018 21:22

Instrument :

MSVOA_F

ClientSampleId :

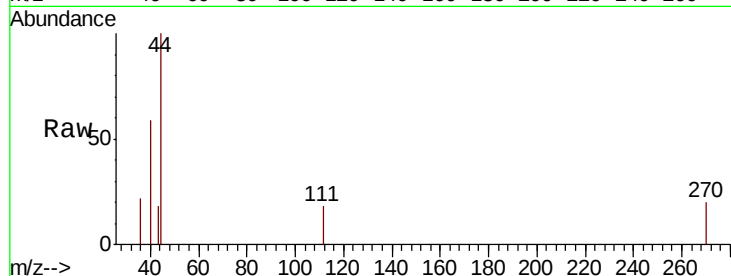
BU-01-082318

Tot Ion: 43 Resp: 70

Ion Ratio Lower Upper

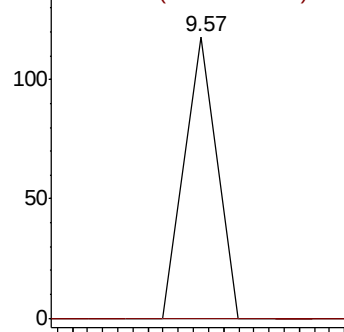
43 100

58 0.0 23.4 70.2#

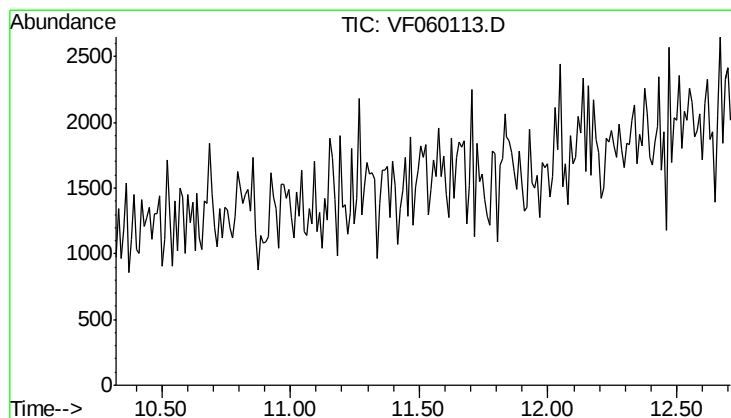
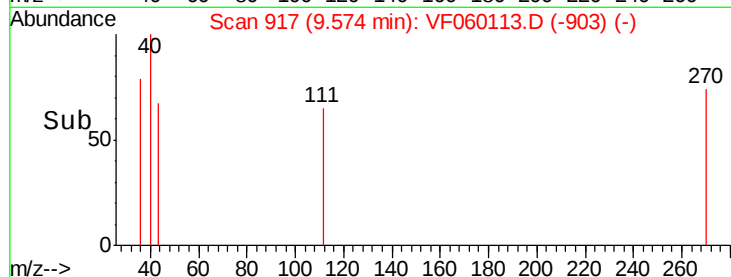


Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



Time--> 9.54 9.56 9.58 9.60



#62

4-Bromofluorobenzene

Concen: 0.00 ug/l

Expected RT: 11.52 min

Lab File: VF060113.D

Acq: 24 Aug 2018 21:22

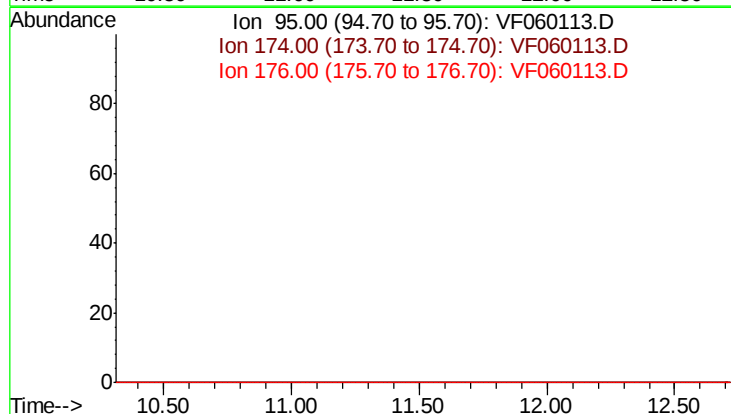
Tgt Ion: 95

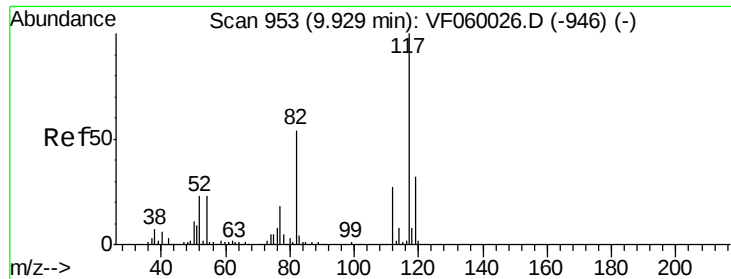
Sig Exp Ratio

95 100

174 79.2

176 76.5

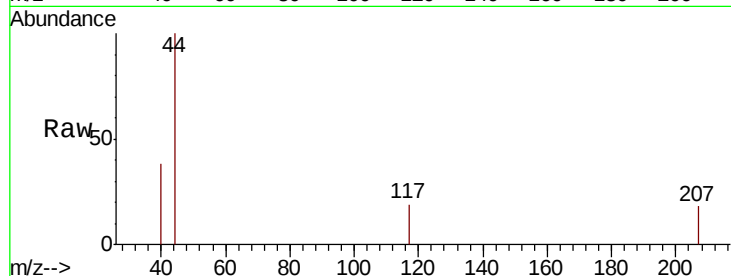




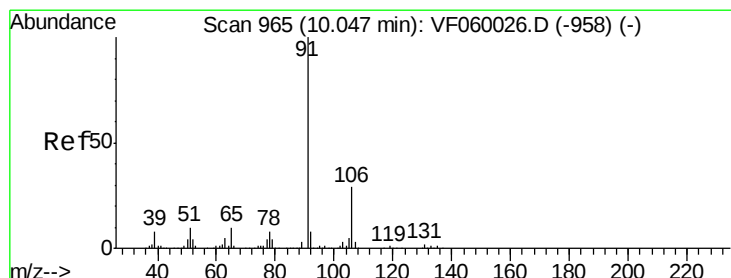
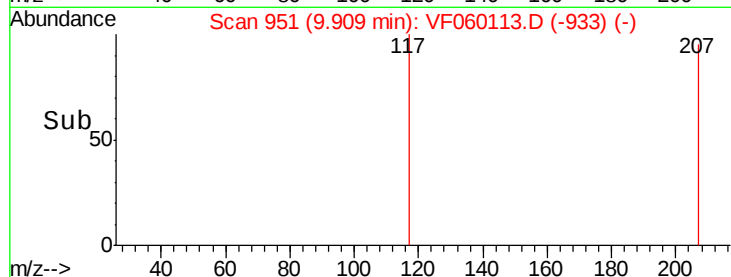
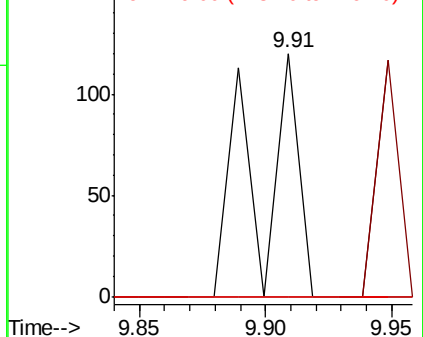
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 9.91 min Scan# 951
Delta R.T. -0.02 min
Lab File: VF060113.D
Acq: 24 Aug 2018 21:22

Instrument :
MSVOA_F
ClientSampleId :
BU-01-082318

Tot Ion	Ratio	Lower	Upper
117	100		
82	0.0	43.6	65.4#
119	0.0	25.6	38.4#

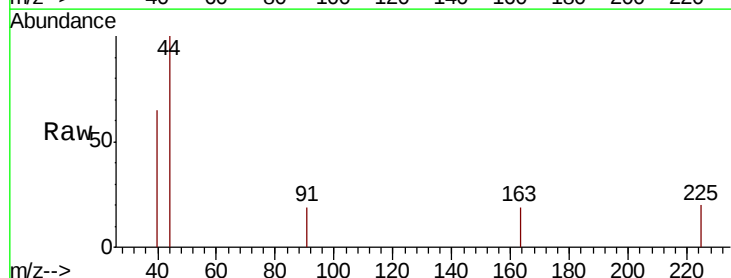


Abundance Ion 117.00 (116.70 to 117.70): V
Ion 82.00 (81.70 to 82.70): VF0
Ion 119.00 (118.70 to 119.70): V

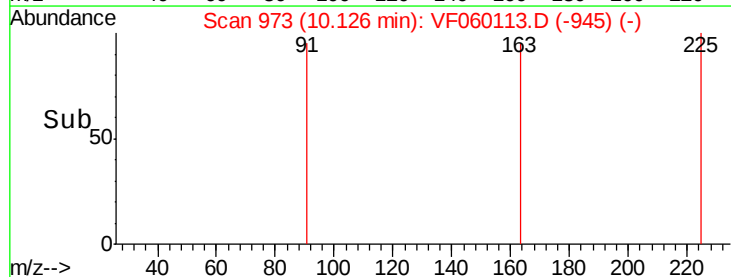
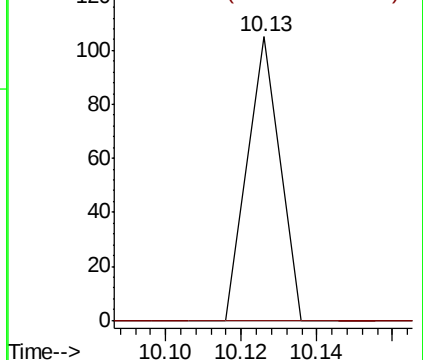


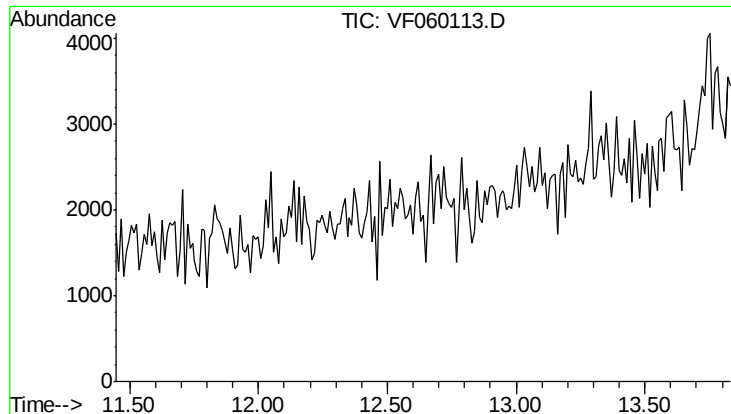
#67
Ethyl Benzene
Concen: 13.79 ug/l
RT: 10.13 min Scan# 973
Delta R.T. 0.08 min
Lab File: VF060113.D
Acq: 24 Aug 2018 21:22

Tgt Ion	Ratio	Lower	Upper
91	100		
106	0.0	23.6	35.4#



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





#72
 1,4-Dichlorobenzene-d4
 Concen: 0.00 ug/l
 Expected RT: 12.64 min
 Lab File: VF060113.D
 Acq: 24 Aug 2018 21:22

Instrument :
 MSVOA_F
 ClientSampleId :
 BU-01-082318

Tot Ion: 152	
Sig	Exp Ratio
152	100
115	57.3
150	156.0

