

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF100518\
 Data File : VF060470.D
 Acq On : 5 Oct 2018 22:23
 Operator : VA/AP
 Sample : J5084-11
 Misc : 6.12/5mL/MSVOA F/SOIL
 ALS Vial : 43 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 B-2(13-13.5)

Quant Time: Oct 06 04:39:00 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F100118S.M
 Quant Title : SW846 8260
 QLast Update : Tue Oct 02 11:42:56 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.02	168	188824	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.74	114	305048	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.90	117	267125	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.62	152	167829	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	133976	45.34	ug/l	0.00
Spiked Amount 50.000			Recovery	=	90.68%	
35) Dibromofluoromethane	4.27	113	126167	44.03	ug/l	0.00
Spiked Amount 50.000			Recovery	=	88.06%	
50) Toluene-d8	7.69	98	212004	30.04	ug/l	0.00
Spiked Amount 50.000			Recovery	=	60.08%	
62) 4-Bromofluorobenzene	11.49	95	107975	33.51	ug/l	0.00
Spiked Amount 50.000			Recovery	=	67.02%	

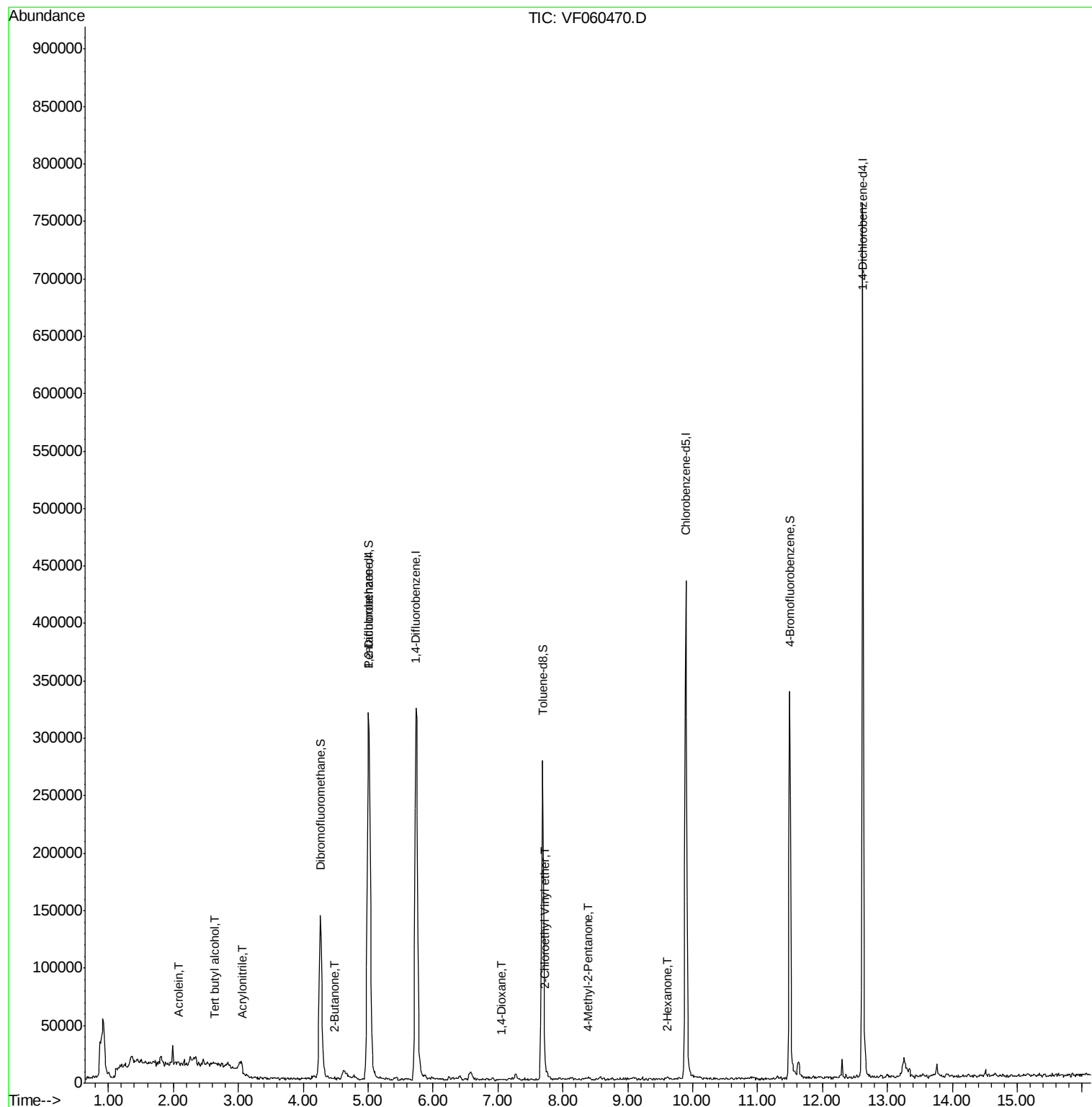
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	0.99	85	373	Below Cal	#	43
11) Tert butyl alcohol	2.65	59	229	1.281	ug/l #	1
13) Acrolein	2.09	56	739	5.142	ug/l #	77
15) Acrylonitrile	3.07	53	662	2.162	ug/l #	38
16) Acetone	2.34	43	2568	Below Cal	#	90
18) Methyl Acetate	2.29	43	418	Below Cal		99
20) Methylene Chloride	2.26	84	2324	Below Cal		89
25) 2-Butanone	4.49	43	767	1.003	ug/l #	58
29) Tetrahydrofuran	4.25	42	904	Below Cal	#	44
49) 1,4-Dioxane	7.06	88	81	7.519	ug/l #	25
51) 4-Methyl-2-Pentanone	8.40	43	1880	1.517	ug/l #	66
58) 2-Chloroethyl Vinyl ether	7.73	63	289	1.549	ug/l	100
59) 2-Hexanone	9.62	43	1097	1.207	ug/l	74

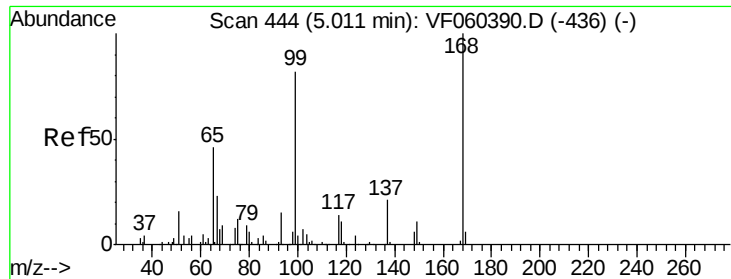
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Tue Oct 02 11:42:56 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.02 min Scan# 445

Delta R.T. 0.01 min

Lab File: VF060470.D

Acq: 5 Oct 2018 22:23

Instrument :

MSVOA_F

ClientSampleId :

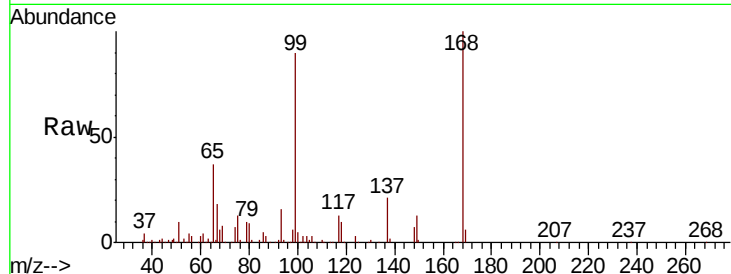
B-2(13-13.5)

Tot Ion:168 Resp: 188824

Ion Ratio Lower Upper

168 100

99 89.7 65.3 97.9



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

5.02

60000

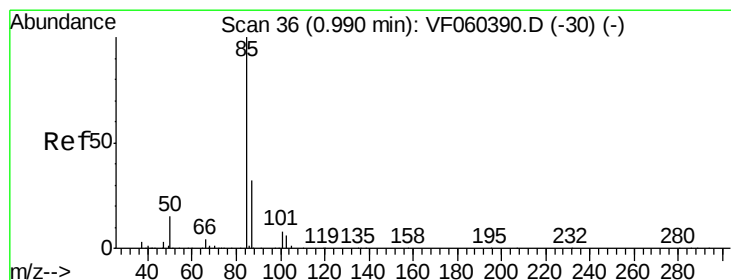
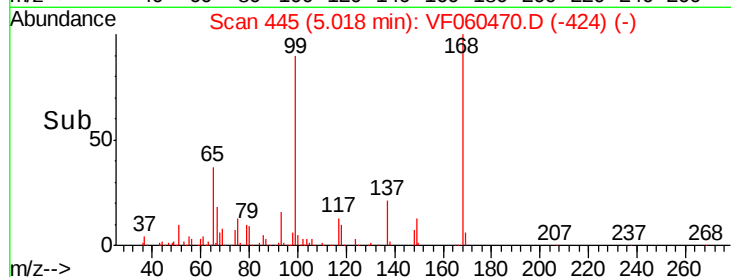
40000

20000

0

Time-->

4.90 5.00 5.10 5.20



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 0.99 min Scan# 36

Delta R.T. -0.00 min

Lab File: VF060470.D

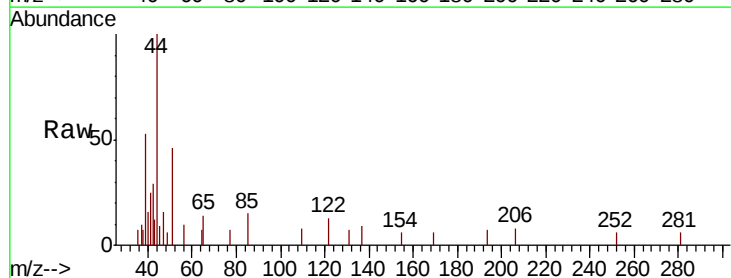
Acq: 5 Oct 2018 22:23

Tgt Ion: 85 Resp: 373

Ion Ratio Lower Upper

85 100

87 0.0 15.9 47.6#



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

0.99

300

250

200

150

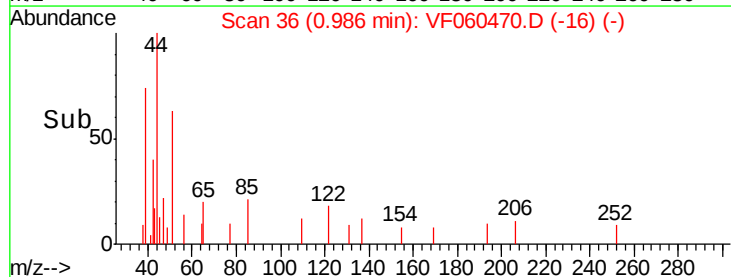
100

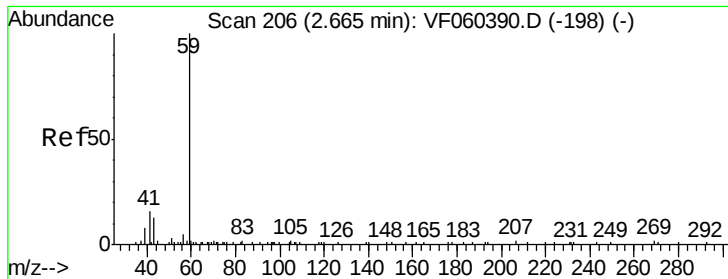
50

0

Time-->

0.95 1.00

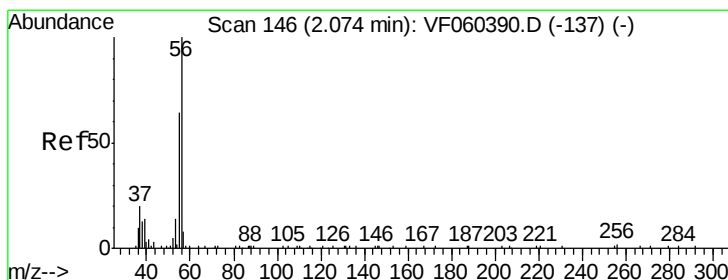
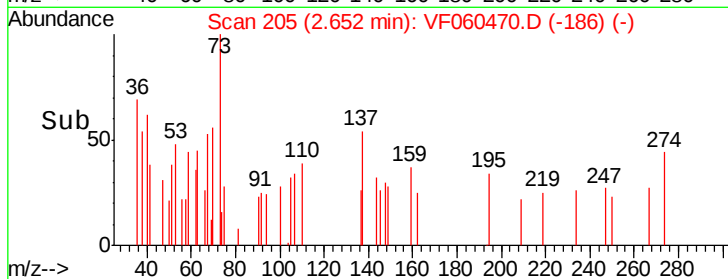
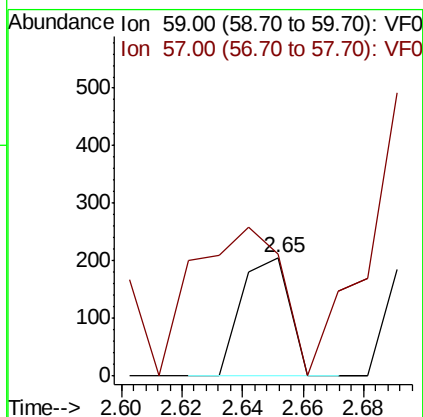
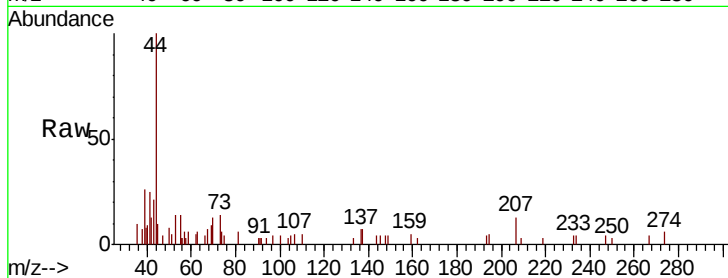




#11
Tert butyl alcohol
Concen: 1.281 ug/l
RT: 2.65 min Scan# 205
Delta R.T. -0.01 min
Lab File: VF060470.D
Acq: 5 Oct 2018 22:23

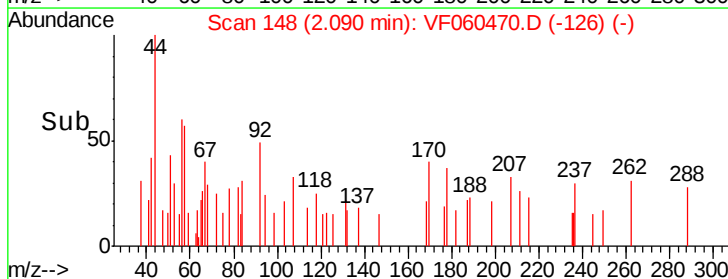
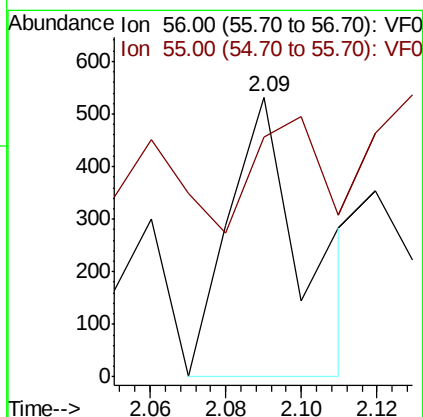
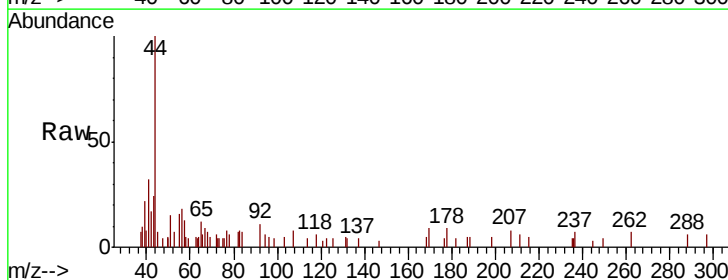
Instrument :
MSVOA_F
ClientSampleId :
B-2(13-13.5)

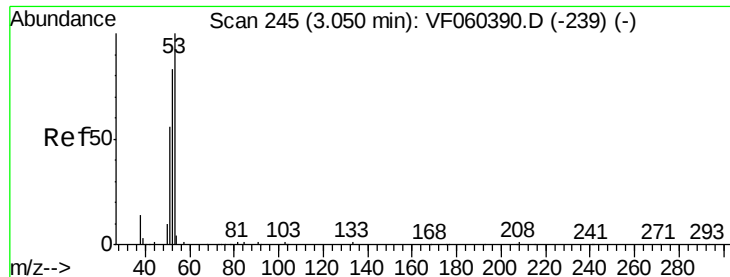
Tot Ion: 59 Resp: 229
Ion Ratio Lower Upper
59 100
57 151.9 6.5 9.7#



#13
Acrolein
Concen: 5.142 ug/l
RT: 2.09 min Scan# 148
Delta R.T. 0.02 min
Lab File: VF060470.D
Acq: 5 Oct 2018 22:23

Tgt Ion: 56 Resp: 739
Ion Ratio Lower Upper
56 100
55 85.7 53.9 80.9#





#15

Acrylonitrile

Concen: 2.162 ug/l

RT: 3.07 min Scan# 247

Delta R.T. 0.02 min

Lab File: VF060470.D

Acq: 5 Oct 2018 22:23

Instrument :

MSVOA_F

ClientSampleId :

B-2(13-13.5)

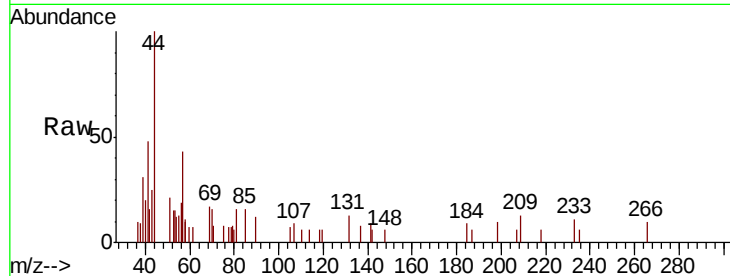
Tot Ion: 53 Resp: 662

Ion Ratio Lower Upper

53 100

52 0.0 66.0 99.0#

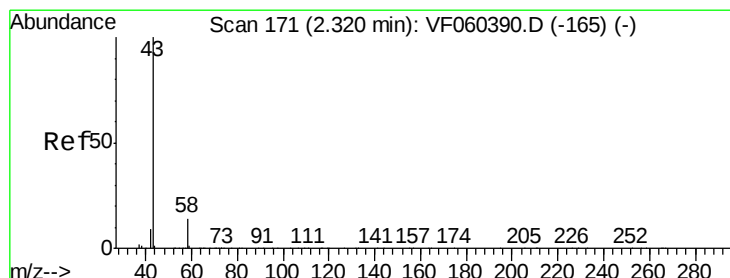
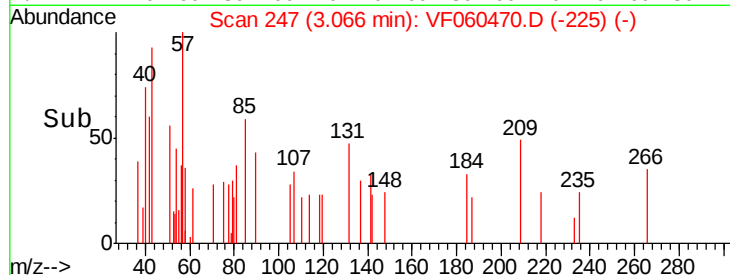
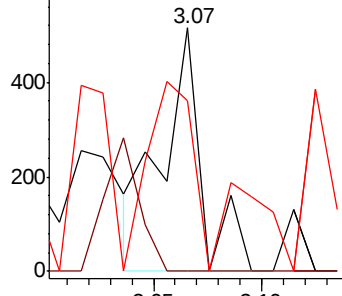
51 70.1 45.6 68.4#



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: Below Cal

RT: 2.34 min Scan# 173

Delta R.T. 0.02 min

Lab File: VF060470.D

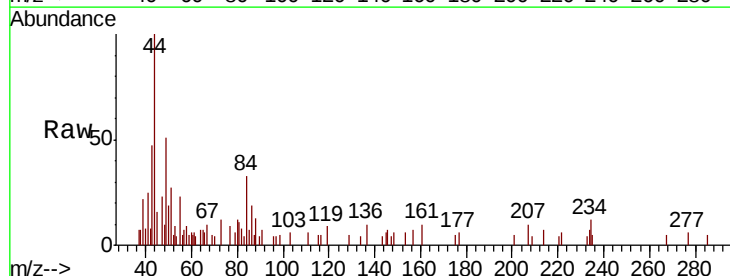
Acq: 5 Oct 2018 22:23

Tgt Ion: 43 Resp: 2568

Ion Ratio Lower Upper

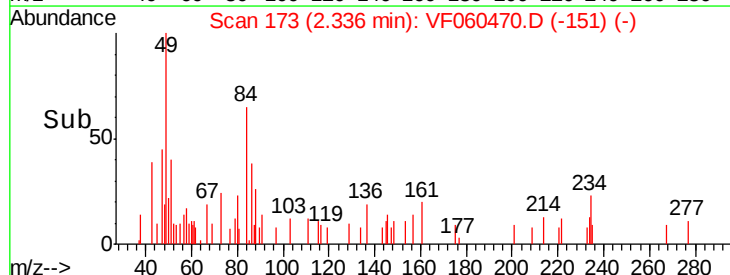
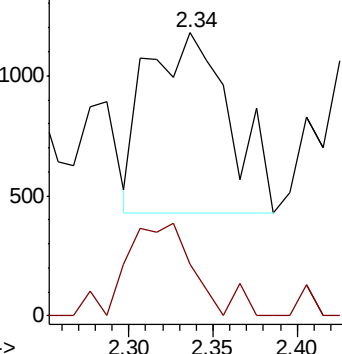
43 100

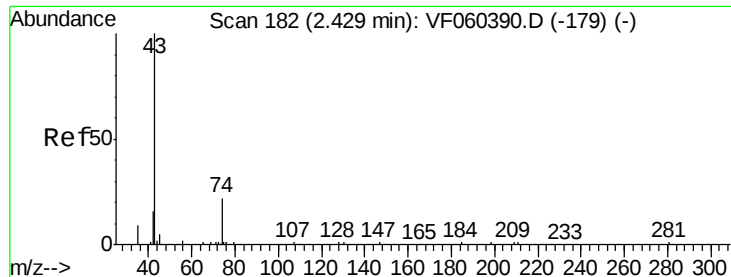
58 18.3 11.2 16.8#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

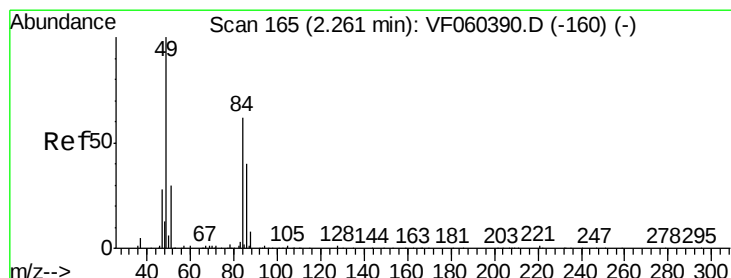
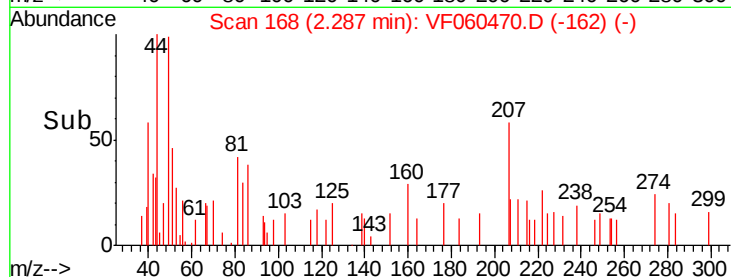
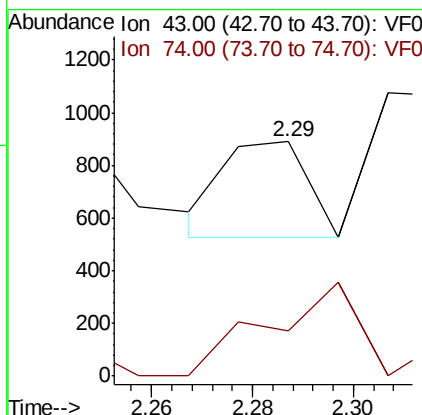
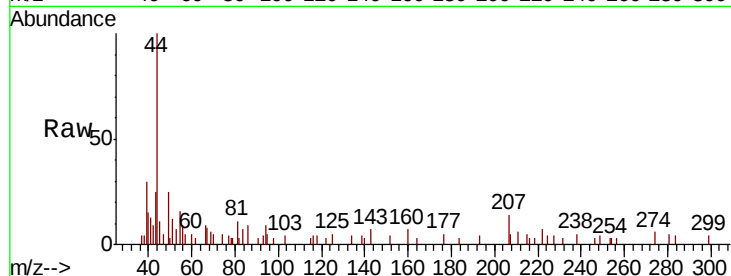




#18
Methyl Acetate
Concen: Below Cal
RT: 2.29 min Scan# 168
Delta R.T. -0.14 min
Lab File: VF060470.D
Acq: 5 Oct 2018 22:23

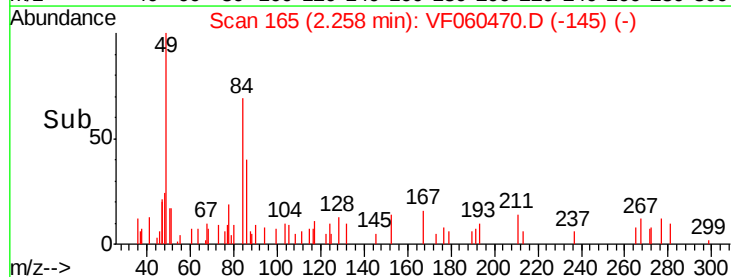
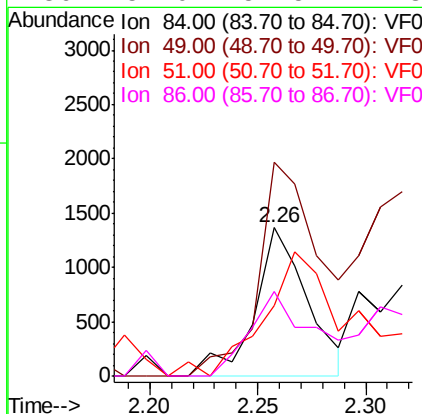
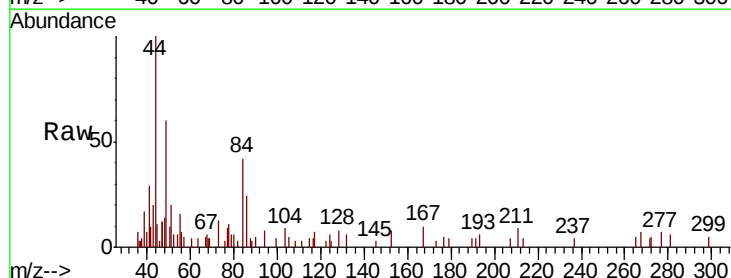
Instrument :
MSVOA_F
ClientSampleId :
B-2(13-13.5)

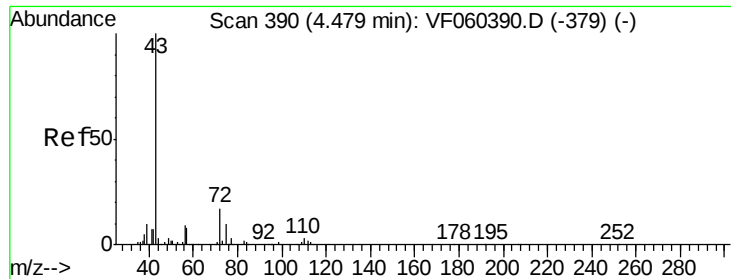
Tot Ion: 43 Resp: 418
Ion Ratio Lower Upper
43 100
74 19.2 15.8 23.8



#20
Methylene Chloride
Concen: Below Cal
RT: 2.26 min Scan# 165
Delta R.T. -0.00 min
Lab File: VF060470.D
Acq: 5 Oct 2018 22:23

Tgt Ion: 84 Resp: 2324
Ion Ratio Lower Upper
84 100
49 144.0 130.2 195.2
51 47.6 41.0 61.6
86 57.0 51.5 77.3





#25

2-Butanone

Concen: 1.003 ug/l

RT: 4.49 min Scan# 391

Delta R.T. 0.01 min

Lab File: VF060470.D

Acq: 5 Oct 2018 22:23

Instrument :

MSVOA_F

ClientSampleId :

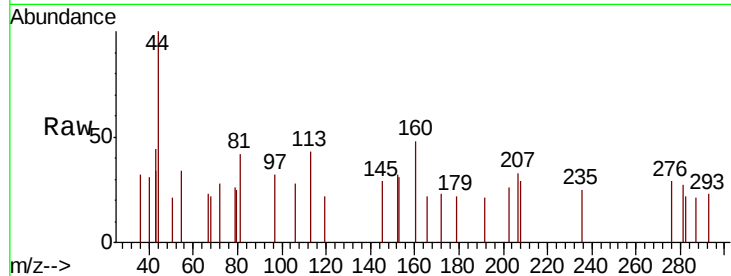
B-2(13-13.5)

Tot Ion: 43 Resp: 767

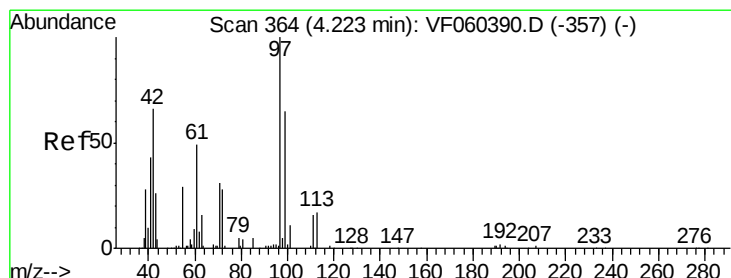
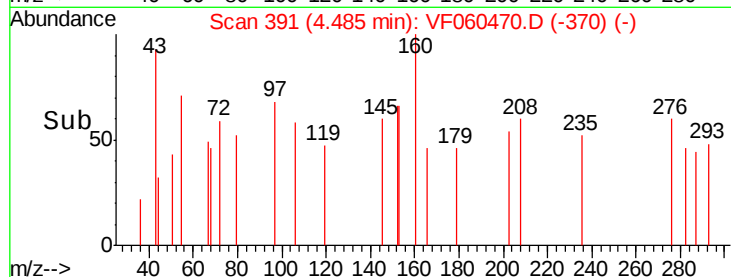
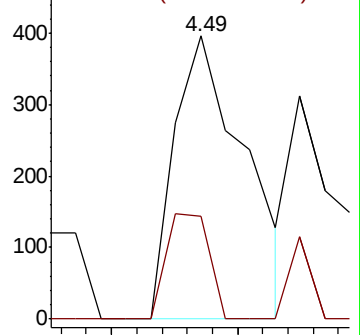
Ion Ratio Lower Upper

43 100

72 36.1 14.1 21.1#



Abundance Ion 43.00 (42.70 to 43.70): VF0



#29

Tetrahydrofuran

Concen: Below Cal

RT: 4.25 min Scan# 367

Delta R.T. 0.03 min

Lab File: VF060470.D

Acq: 5 Oct 2018 22:23

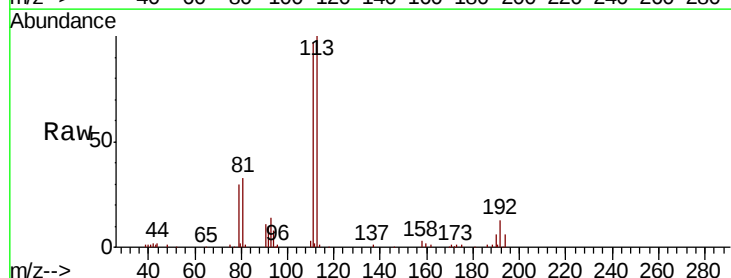
Tgt Ion: 42 Resp: 904

Ion Ratio Lower Upper

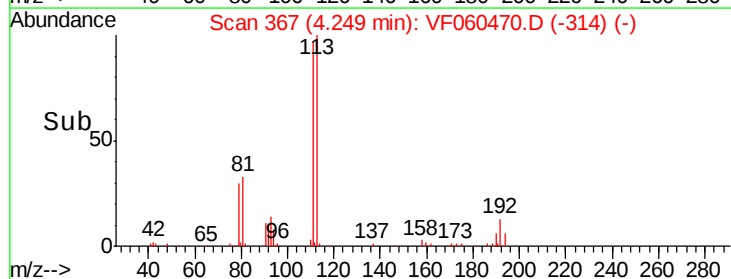
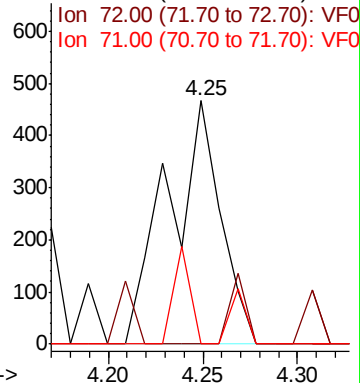
42 100

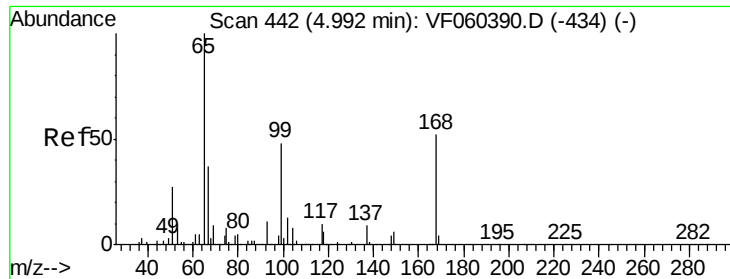
72 0.0 33.6 50.4#

71 12.3 32.7 49.1#



Abundance Ion 42.00 (41.70 to 42.70): VF0

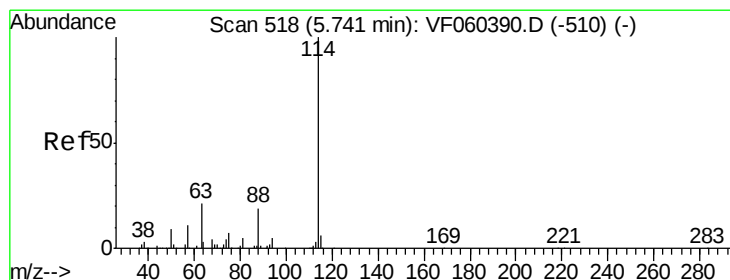
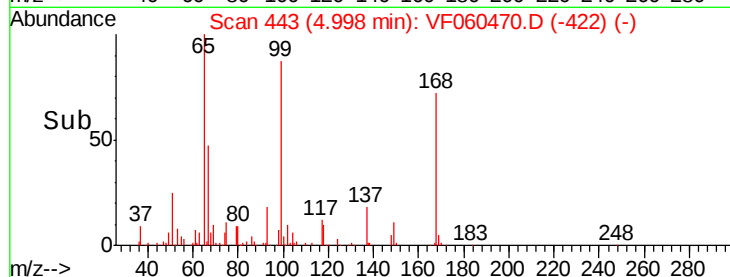
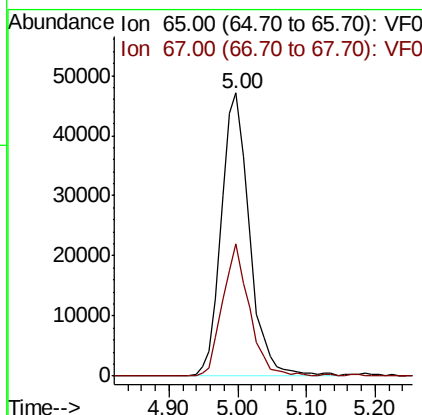
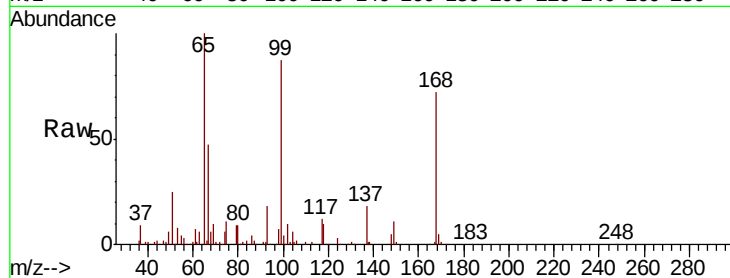




#33
 1,2-Dichloroethane-d4
 Concen: 45.344 ug/l
 RT: 5.00 min Scan# 443
 Delta R.T. 0.01 min
 Lab File: VF060470.D
 Acq: 5 Oct 2018 22:23

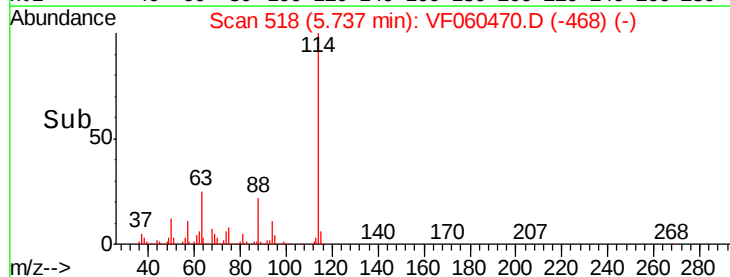
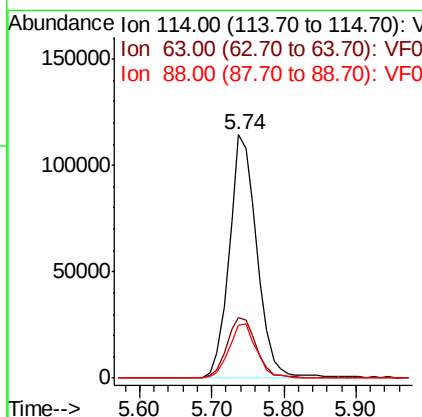
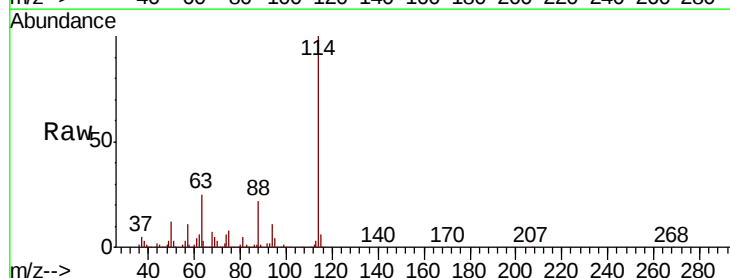
Instrument :
 MSVOA_F
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 B-2(13-13.5)

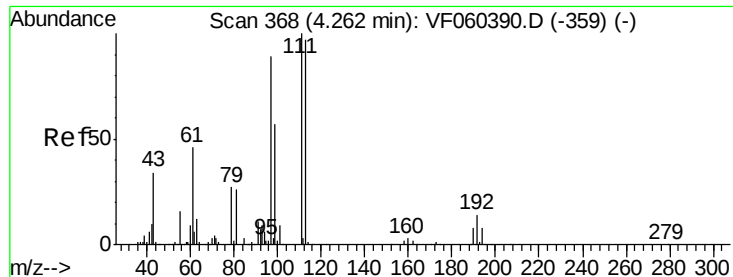
Tot Ion: 65 Resp: 133976
 Ion Ratio Lower Upper
 65 100
 67 46.9 0.0 89.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.74 min Scan# 518
 Delta R.T. -0.00 min
 Lab File: VF060470.D
 Acq: 5 Oct 2018 22:23

Tgt Ion: 114 Resp: 305048
 Ion Ratio Lower Upper
 114 100
 63 24.9 0.0 42.2
 88 21.7 0.0 38.8





#35

Dibromofluoromethane

Concen: 44.026 ug/l

RT: 4.27 min Scan# 369

Delta R.T. 0.01 min

Lab File: VF060470.D

Acq: 5 Oct 2018 22:23

Instrument :

MSVOA_F

ClientSampleId :

B-2(13-13.5)

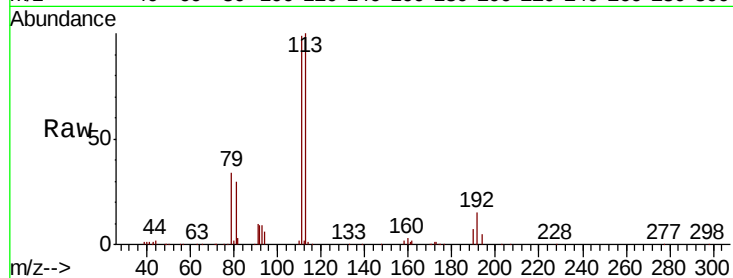
Tot Ion:113 Resp: 126167

Ion Ratio Lower Upper

113 100

111 99.0 82.3 123.5

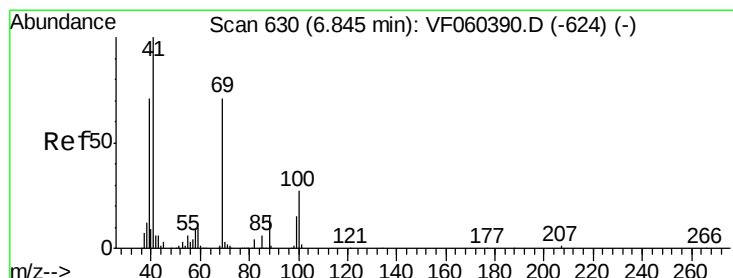
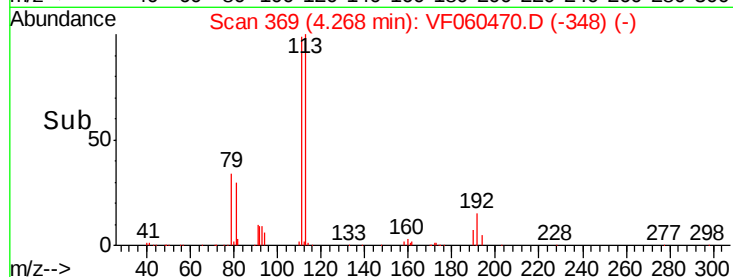
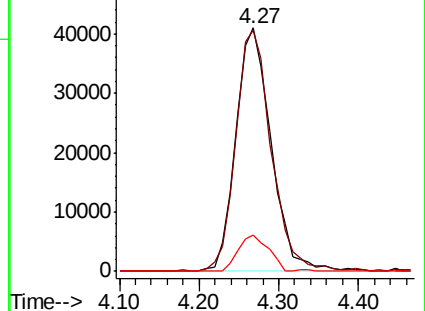
192 14.7 11.8 17.6



Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V



#49

1,4-Dioxane

Concen: 7.519 ug/l

RT: 7.06 min Scan# 652

Delta R.T. 0.21 min

Lab File: VF060470.D

Acq: 5 Oct 2018 22:23

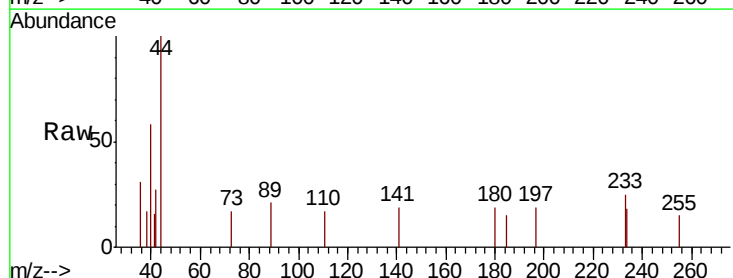
Tgt Ion: 88 Resp: 81

Ion Ratio Lower Upper

88 100

43 0.0 38.3 57.5#

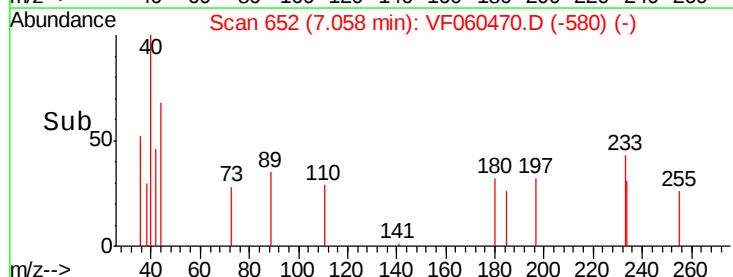
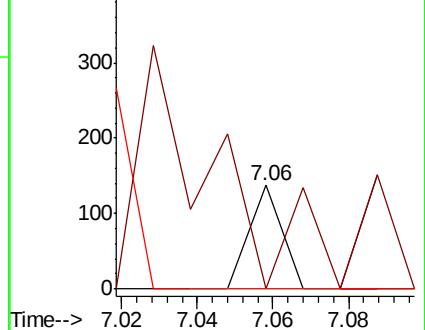
58 0.0 47.4 71.2#

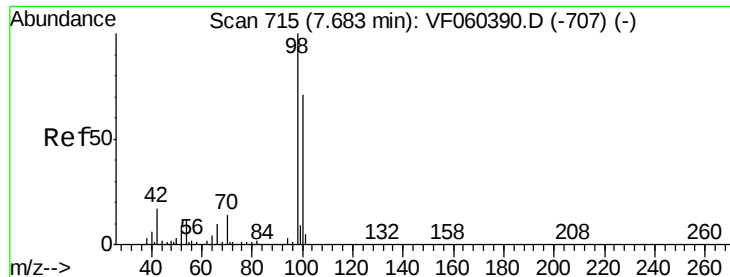


Abundance Ion 88.00 (87.70 to 88.70): VF0

Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0





#50

Toluene-d8

Concen: 30.039 ug/l

RT: 7.69 min Scan# 716

Delta R.T. 0.01 min

Lab File: VF060470.D

Acq: 5 Oct 2018 22:23

Instrument :

MSVOA_F

ClientSampleId :

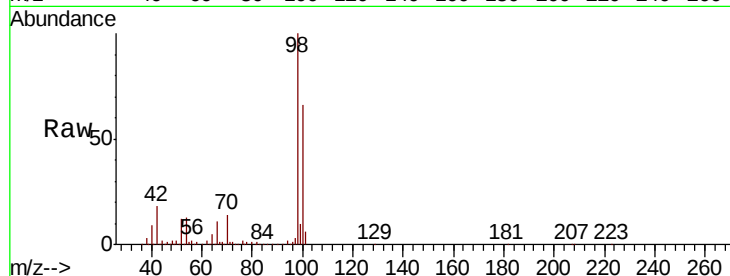
B-2(13-13.5)

Tot Ion: 98 Resp: 212004

Ion Ratio Lower Upper

98 100

100 65.9 56.5 84.7



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0

7.69

100000

80000

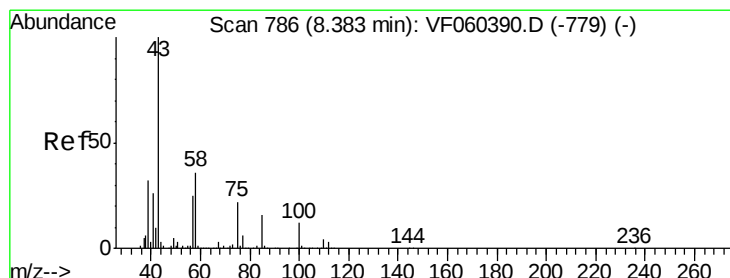
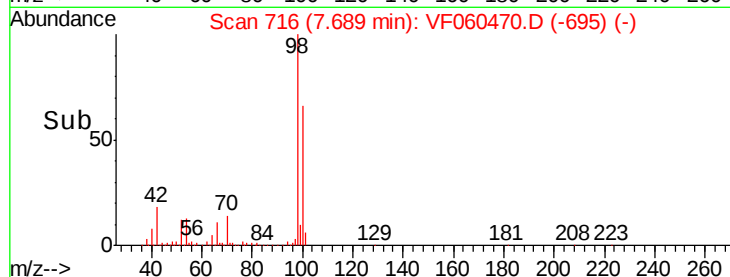
60000

40000

20000

0

Time--> 7.50 7.60 7.70 7.80



#51

4-Methyl-2-Pentanone

Concen: 1.517 ug/l

RT: 8.40 min Scan# 788

Delta R.T. 0.02 min

Lab File: VF060470.D

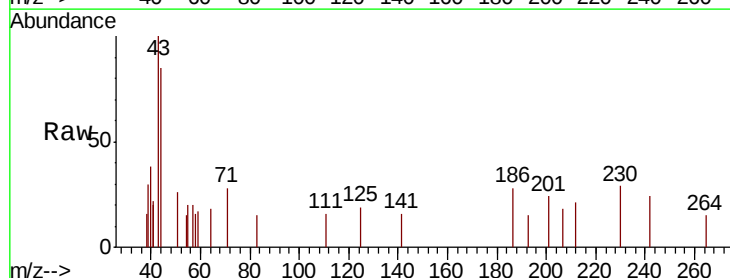
Acq: 5 Oct 2018 22:23

Tgt Ion: 43 Resp: 1880

Ion Ratio Lower Upper

43 100

58 15.9 28.5 42.7#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

8.40

800

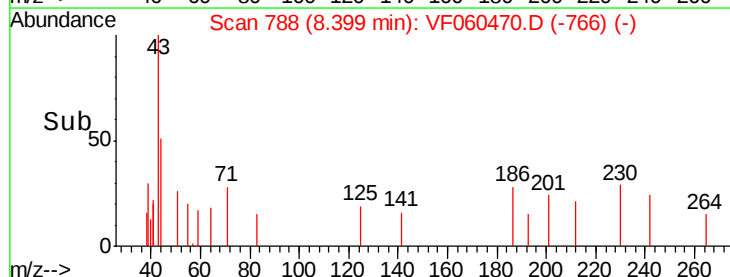
600

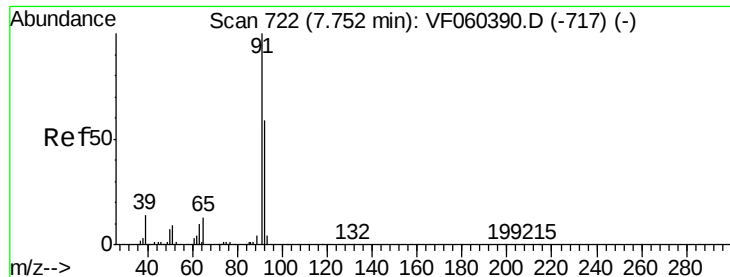
400

200

0

Time--> 8.30 8.35 8.40 8.45

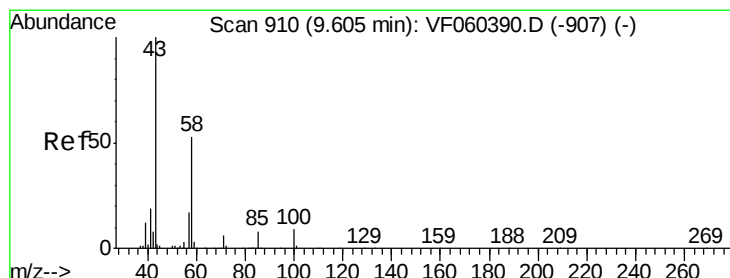
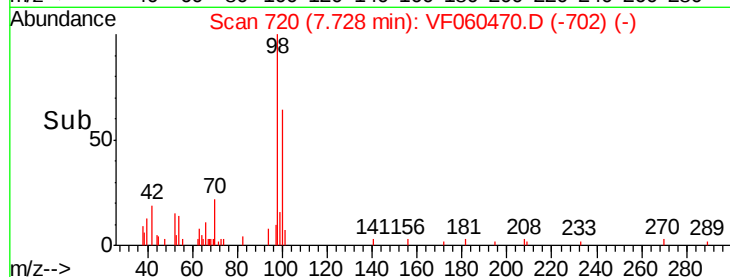
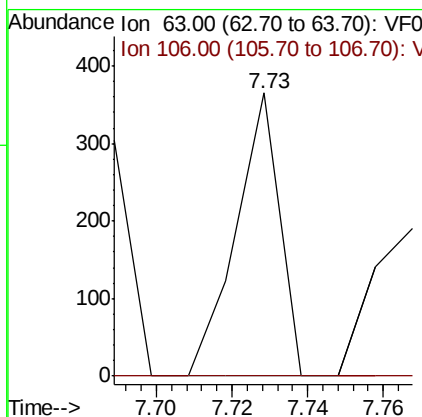
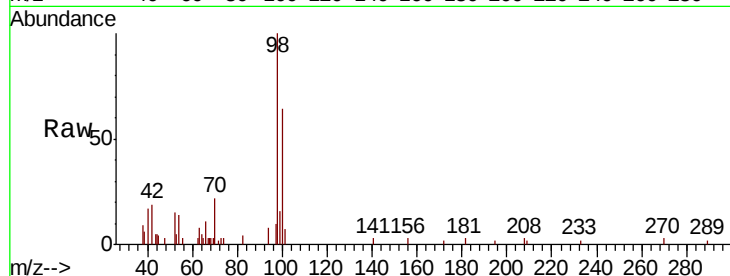




#58
 2-Chloroethyl Vinyl ether
 Concen: 1.549 ug/l
 RT: 7.73 min Scan# 720
 Delta R.T. -0.02 min
 Lab File: VF060470.D
 Acq: 5 Oct 2018 22:23

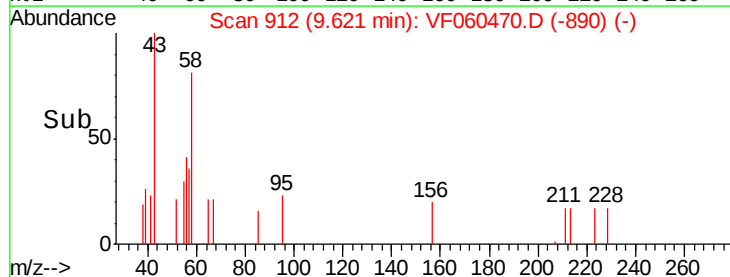
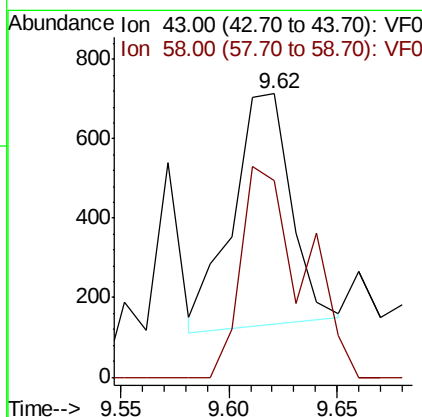
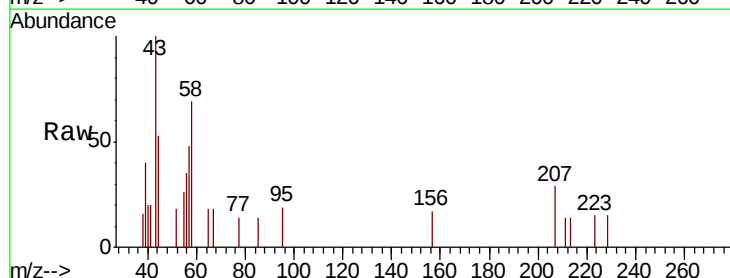
Instrument :
 MSVOA_F
 ClientSampleId :
 B-2(13-13.5)

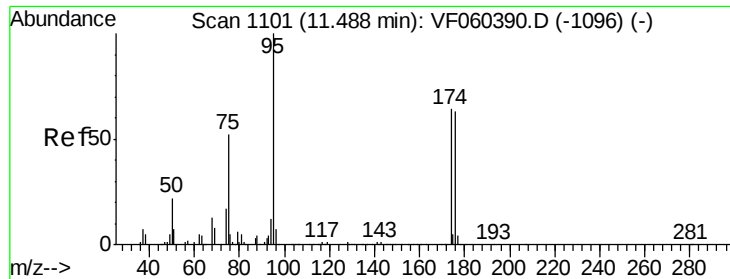
Tot Ion: 63 Resp: 289
 Ion Ratio Lower Upper
 63 100
 106 0.0 0.0 0.0



#59
 2-Hexanone
 Concen: 1.207 ug/l
 RT: 9.62 min Scan# 912
 Delta R.T. 0.02 min
 Lab File: VF060470.D
 Acq: 5 Oct 2018 22:23

Tgt Ion: 43 Resp: 1097
 Ion Ratio Lower Upper
 43 100
 58 69.4 25.6 76.6





#62

4-Bromofluorobenzene

Concen: 33.506 ug/l

RT: 11.49 min Scan# 1102

Delta R.T. 0.01 min

Lab File: VF060470.D

Acq: 5 Oct 2018 22:23

Instrument :

MSVOA_F

ClientSampleId :

B-2(13-13.5)

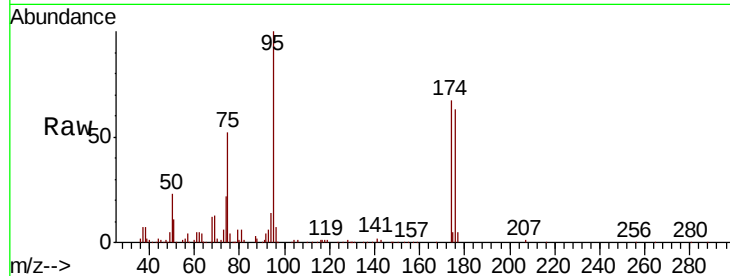
Tot Ion: 95 Resp: 107975

Ion Ratio Lower Upper

95 100

174 67.4 0.0 129.0

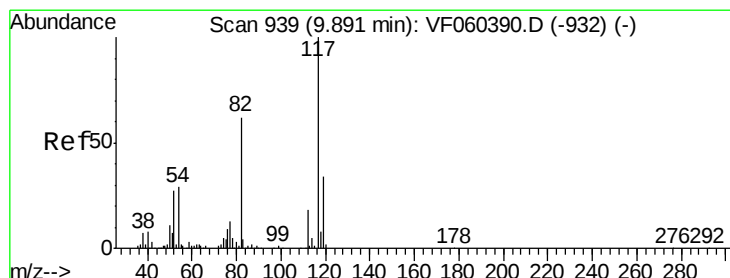
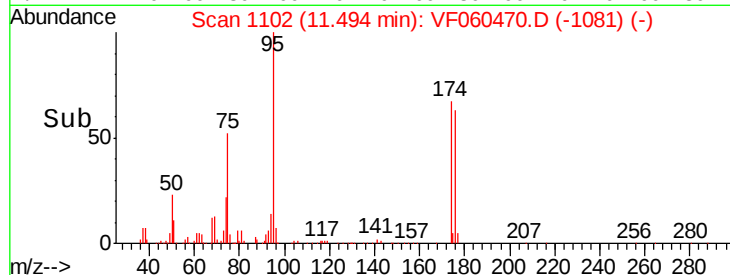
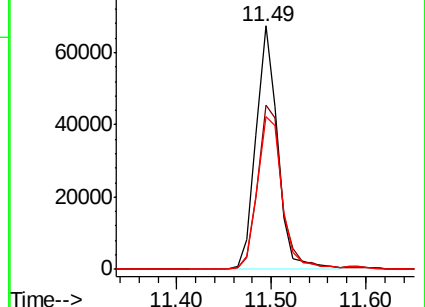
176 62.8 0.0 125.6



Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): VF0

Ion 176.00 (175.70 to 176.70): VF0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.90 min Scan# 940

Delta R.T. 0.01 min

Lab File: VF060470.D

Acq: 5 Oct 2018 22:23

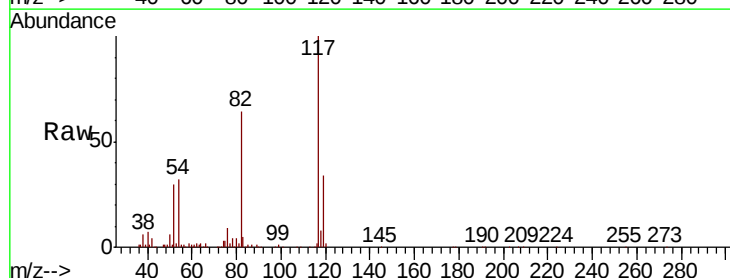
Tgt Ion: 117 Resp: 267125

Ion Ratio Lower Upper

117 100

82 64.2 49.5 74.3

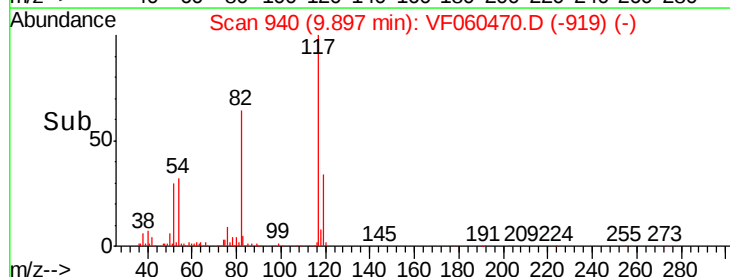
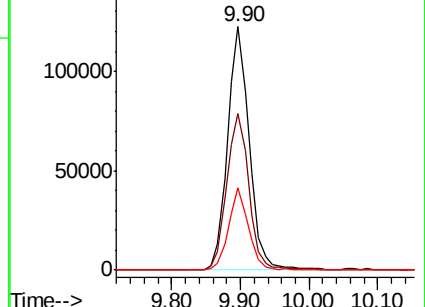
119 33.6 27.0 40.6

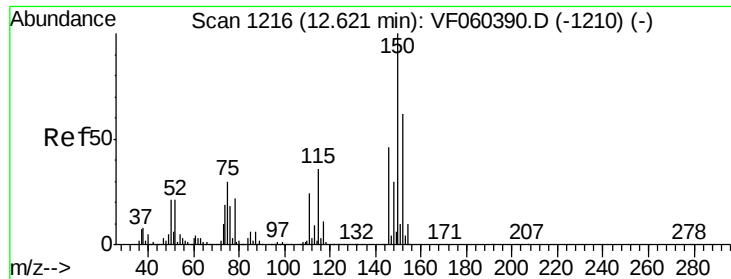


Abundance Ion 117.00 (116.70 to 117.70): VF0

Ion 82.00 (81.70 to 82.70): VF0

Ion 119.00 (118.70 to 119.70): VF0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.62 min Scan# 1216

Delta R.T. -0.00 min

Lab File: VF060470.D

Acq: 5 Oct 2018 22:23

Instrument :

MSVOA_F

ClientSampleId :

B-2(13-13.5)

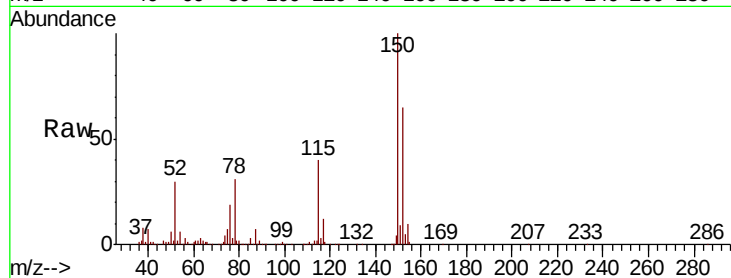
Tot Ion:152 Resp: 167829

Ion Ratio Lower Upper

152 100

115 61.8 28.6 85.8

150 154.7 0.0 324.6



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

