

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_F\DATA\VF092518\
 Data File : VF060332.D
 Acq On : 25 Sep 2018 18:40
 Operator : VA/AP
 Sample : J5064-01
 Misc : 12.50/5mL/MSVOA_F/SOIL
 ALS Vial : 38 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 COMP

Quant Time: Sep 26 01:46:42 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F091918S.M
 Quant Title : SW846 8260
 QLast Update : Thu Sep 20 02:58:42 2018
 Response via : Initial Calibration

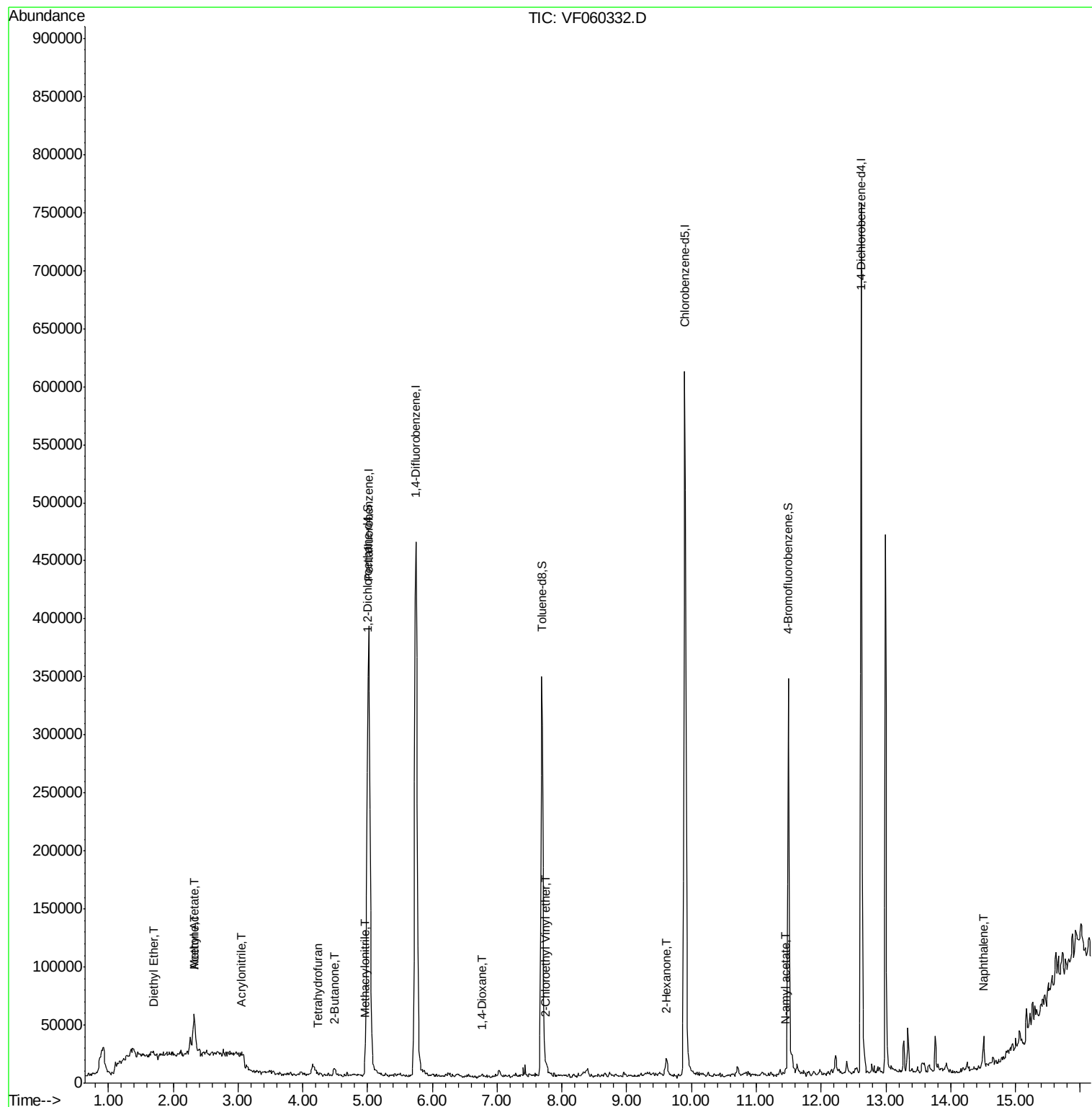
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.02	168	257329	50.00	ug/l	-0.02
34) 1,4-Difluorobenzene	5.75	114	481801	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.90	117	415904	50.00	ug/l	-0.02
72) 1,4-Dichlorobenzene-d4	12.62	152	179772	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.00	65	150835	43.53	ug/l	0.00
Spiked Amount 50.000			Recovery	=	87.06%	
35) Dibromofluoromethane	4.14	113	229	0.05	ug/l	-0.15
Spiked Amount 50.000			Recovery	=	0.10%	
50) Toluene-d8	7.69	98	292992	26.20	ug/l	-0.02
Spiked Amount 50.000			Recovery	=	52.40%	
62) 4-Bromofluorobenzene	11.49	95	127172	26.30	ug/l	0.00
Spiked Amount 50.000			Recovery	=	52.60%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.00	85	131	Below Cal	#	40
5) Bromomethane	1.39	94	567	Below Cal		100
8) Diethyl Ether	1.69	74	1724	1.556	ug/l	82
11) Tert butyl alcohol	2.65	59	521	Below Cal	#	1
13) Acrolein	2.07	56	321	Below Cal	#	1
15) Acrylonitrile	3.07	53	2296	4.692	ug/l #	50
16) Acetone	2.33	43	52560	53.862	ug/l	99
17) Carbon Disulfide	1.88	76	319	Below Cal	#	1
18) Methyl Acetate	2.33	43	51723	31.817	ug/l #	65
20) Methylene Chloride	2.28	84	5293	Below Cal	#	78
25) 2-Butanone	4.49	43	12407	9.446	ug/l	98
29) Tetrahydrofuran	4.24	42	619	1.287	ug/l #	78
41) Methacrylonitrile	4.95	41	1549	1.123	ug/l #	66
49) 1,4-Dioxane	6.77	88	70	3.646	ug/l #	1
58) 2-Chloroethyl Vinyl ether	7.76	63	981	3.512	ug/l	100
59) 2-Hexanone	9.62	43	16788	9.993	ug/l	94
74) N-amyl acetate	11.44	43	3705	1.077	ug/l #	79
78) n-propylbenzene	11.68	91	1739	Below Cal		91
85) sec-Butylbenzene	12.38	105	1893	Below Cal		87
86) p-Isopropyltoluene	12.53	119	1884	Below Cal	#	70
89) n-Butylbenzene	12.91	91	2151	Below Cal	#	63
95) Naphthalene	14.51	128	12995	1.645	ug/l	97

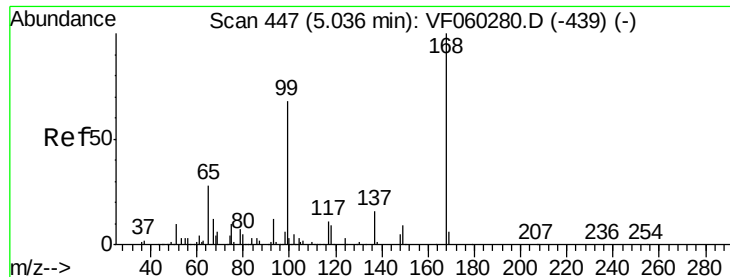
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Thu Sep 20 02:58:42 2018
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.02 min Scan# 445

Delta R.T. -0.02 min

Lab File: VF060332.D

Acq: 25 Sep 2018 18:40

Instrument :

MSVOA_F

ClientSampleId :

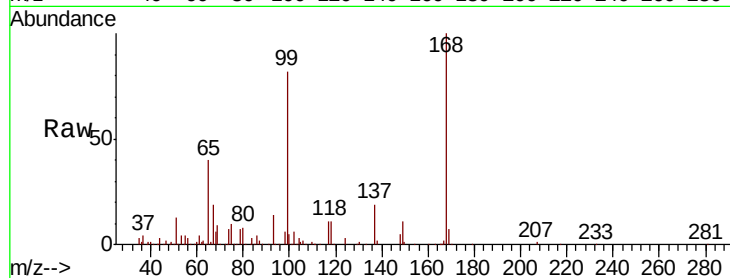
COMP

Tgt Ion:168 Resp: 257329

Ion Ratio Lower Upper

168 100

99 81.9 54.8 82.2



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

5.02

80000

60000

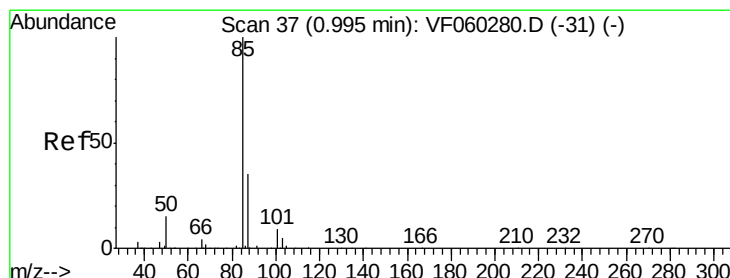
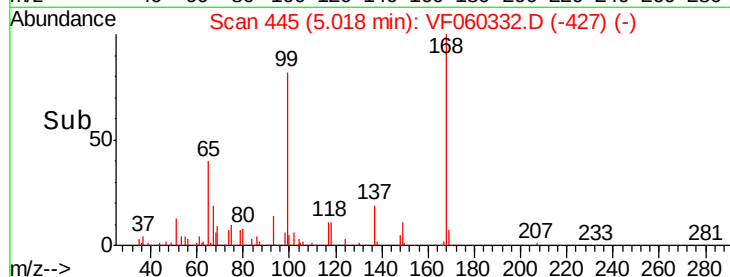
40000

20000

0

4.90 5.00 5.10 5.20

Time-->



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.00 min Scan# 37

Delta R.T. 0.00 min

Lab File: VF060332.D

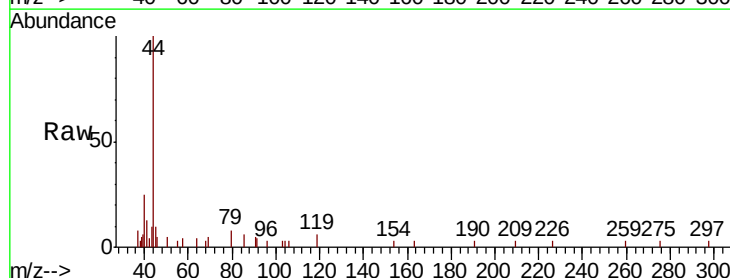
Acq: 25 Sep 2018 18:40

Tgt Ion: 85 Resp: 131

Ion Ratio Lower Upper

85 100

87 0.0 17.3 52.0#



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

1.00

250

200

150

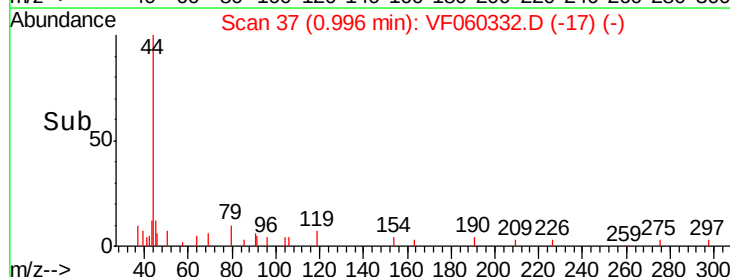
100

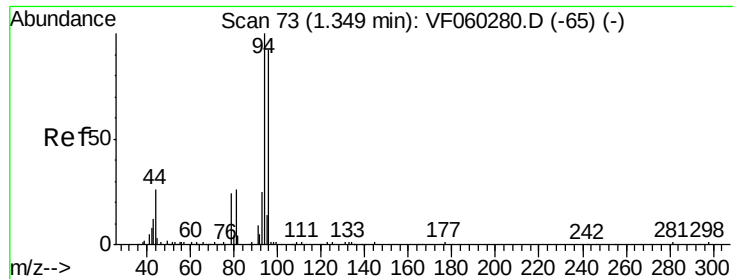
50

0

0.98 0.99 1.00 1.01

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 1.39 min Scan# 77

Delta R.T. 0.04 min

Lab File: VF060332.D

Acq: 25 Sep 2018 18:40

Instrument :

MSVOA_F

ClientSampled :

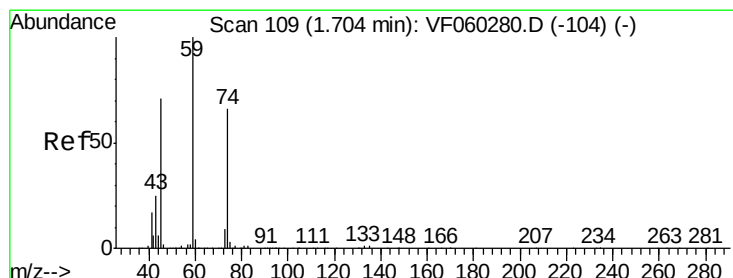
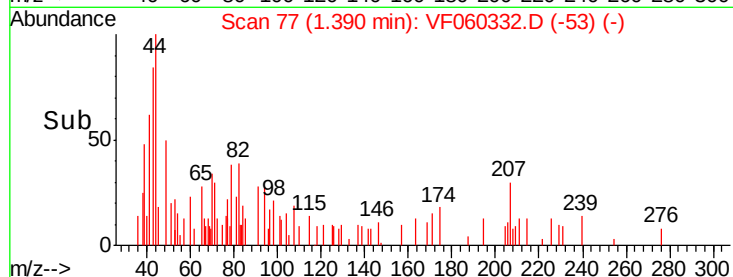
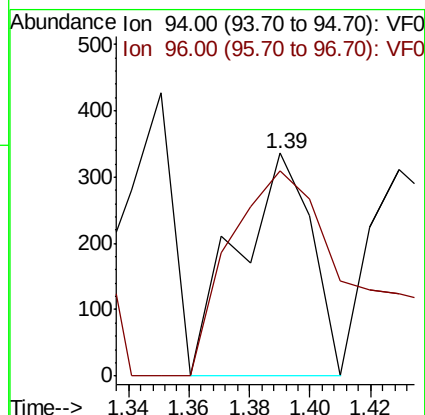
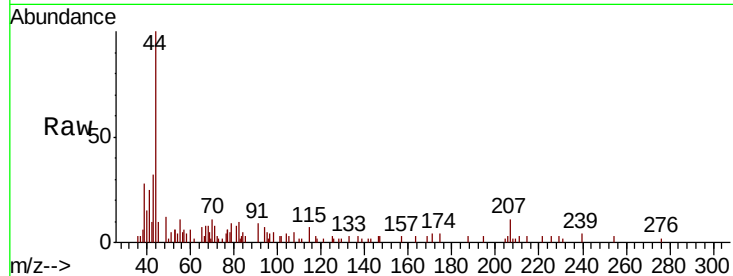
COMP

Tgt Ion: 94 Resp: 567

Ion Ratio Lower Upper

94 100

96 92.0 73.9 110.9



#8

Diethyl Ether

Concen: 1.556 ug/l

RT: 1.69 min Scan# 107

Delta R.T. -0.02 min

Lab File: VF060332.D

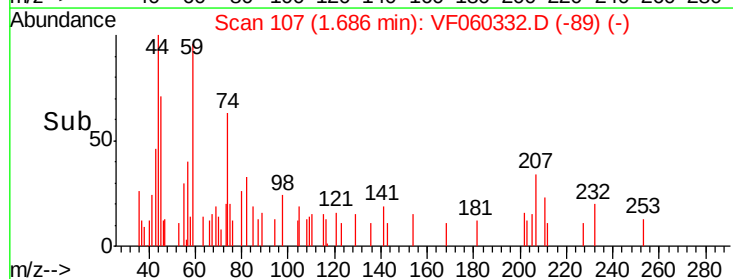
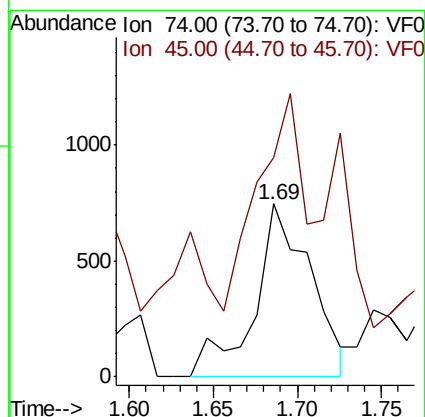
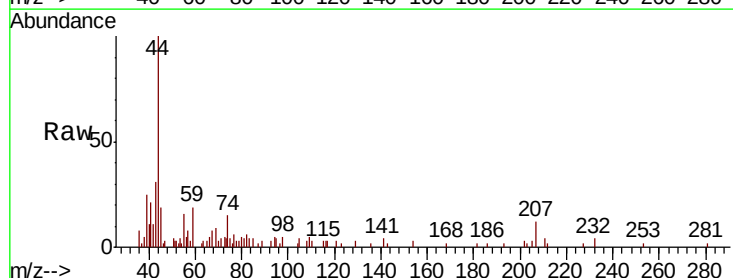
Acq: 25 Sep 2018 18:40

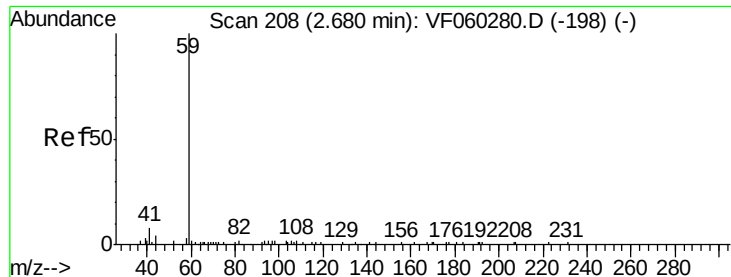
Tgt Ion: 74 Resp: 1724

Ion Ratio Lower Upper

74 100

45 126.8 53.9 161.7



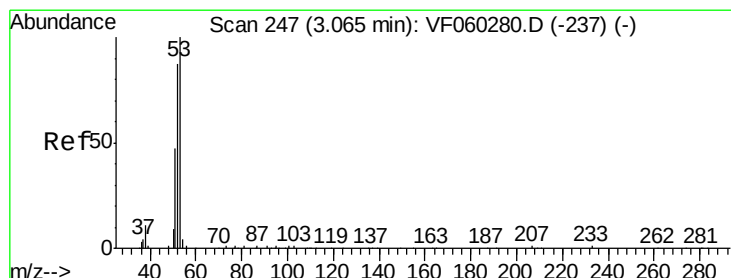
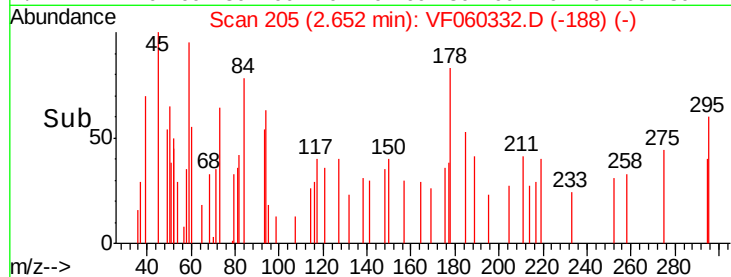
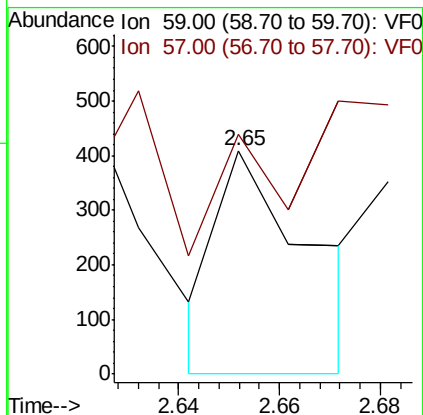
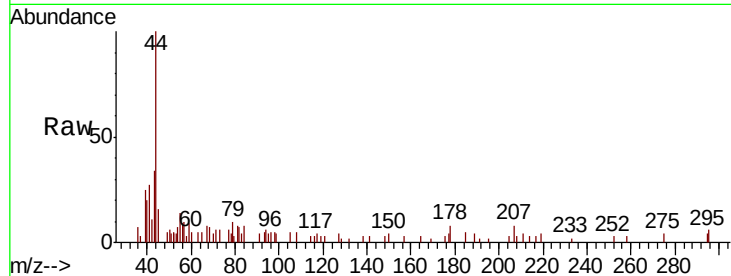


#11

Tert butyl alcohol
 Concen: Below Cal
 RT: 2.65 min Scan# 205
 Delta R.T. -0.03 min
 Lab File: VF060332.D
 Acq: 25 Sep 2018 18:40

Instrument :
 MSVOA_F
 ClientSampled :
 COMP

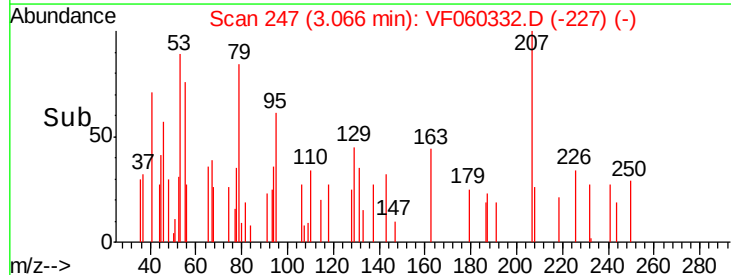
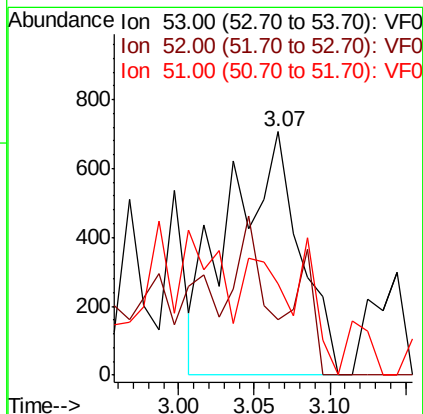
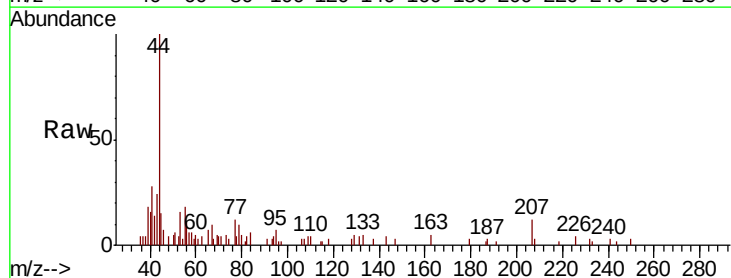
Tgt Ion: 59 Resp: 521
 Ion Ratio Lower Upper
 59 100
 57 107.3 12.4 18.6#

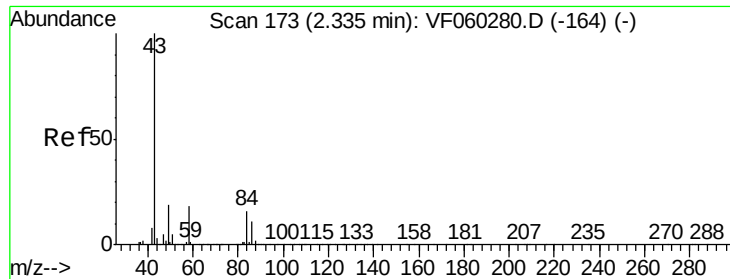


#15

Acrylonitrile
 Concen: 4.692 ug/l
 RT: 3.07 min Scan# 247
 Delta R.T. 0.00 min
 Lab File: VF060332.D
 Acq: 25 Sep 2018 18:40

Tgt Ion: 53 Resp: 2296
 Ion Ratio Lower Upper
 53 100
 52 23.1 69.5 104.3#
 51 37.5 38.1 57.1#





#16

Acetone

Concen: 53.862 ug/l

RT: 2.33 min Scan# 172

Delta R.T. -0.01 min

Lab File: VF060332.D

Acq: 25 Sep 2018 18:40

Instrument :

MSVOA_F

ClientSampleId :

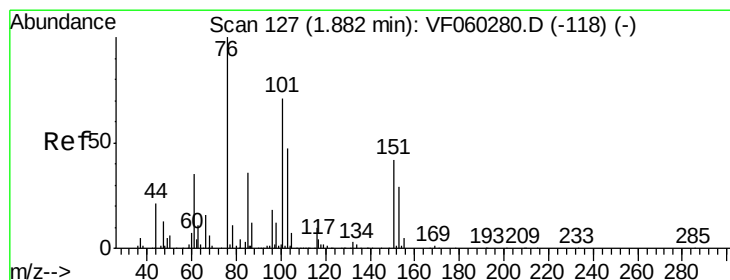
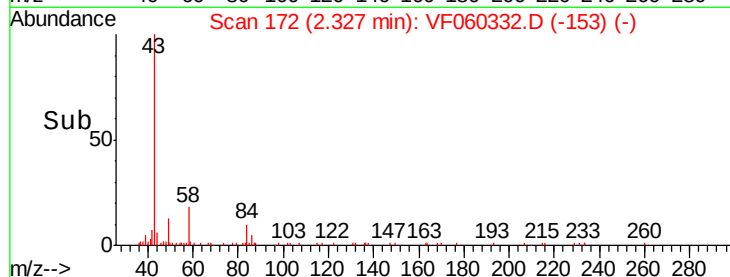
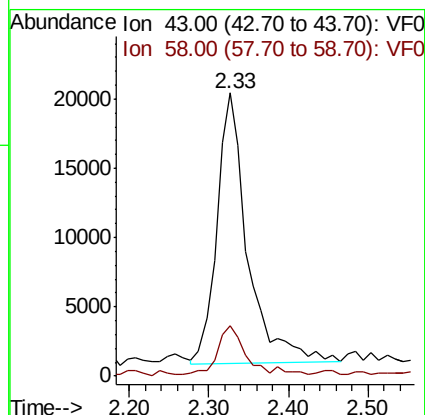
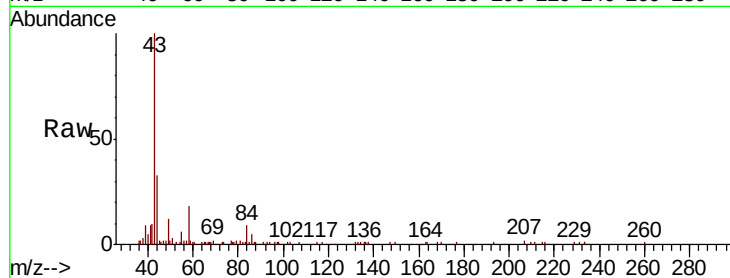
COMP

Tgt Ion: 43 Resp: 52560

Ion Ratio Lower Upper

43 100

58 17.8 14.5 21.7



#17

Carbon Disulfide

Concen: Below Cal

RT: 1.88 min Scan# 127

Delta R.T. 0.00 min

Lab File: VF060332.D

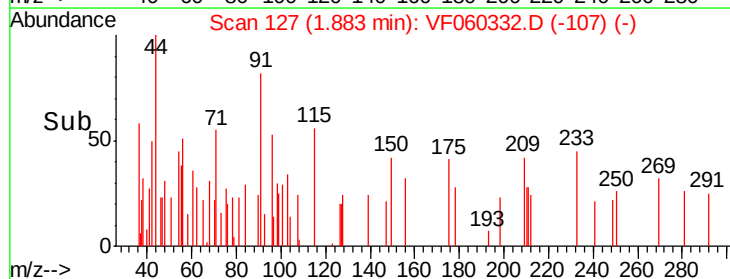
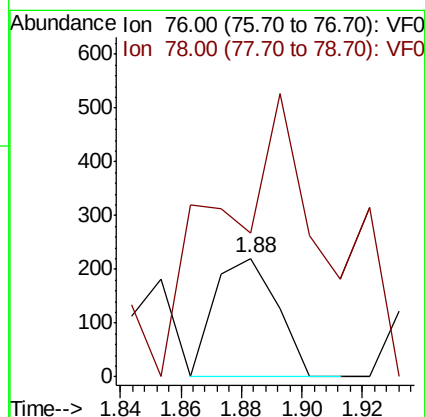
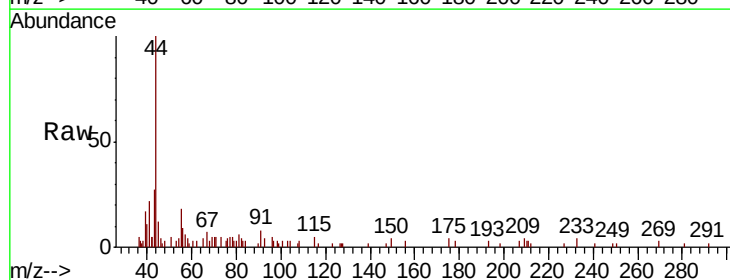
Acq: 25 Sep 2018 18:40

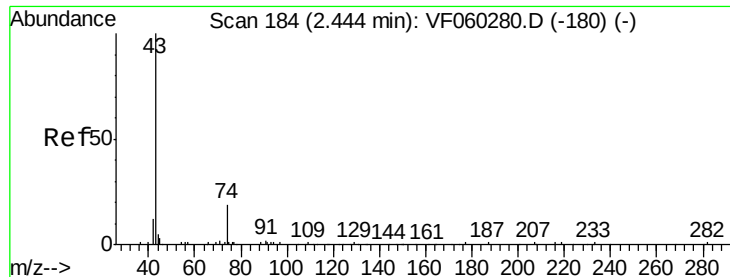
Tgt Ion: 76 Resp: 319

Ion Ratio Lower Upper

76 100

78 120.8 9.4 14.0#

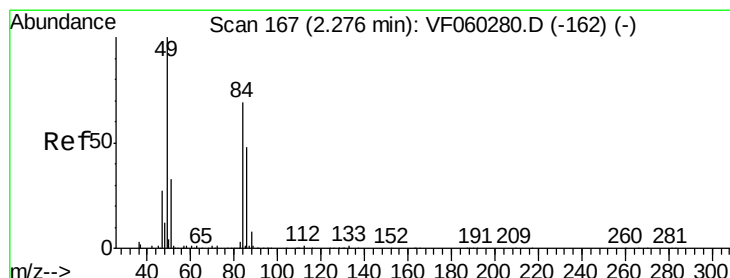
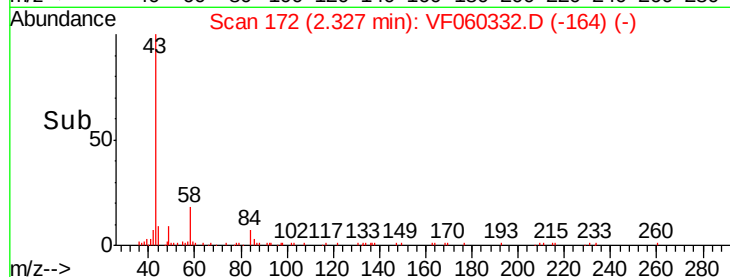
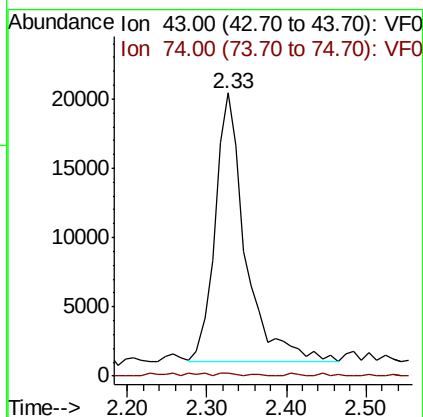
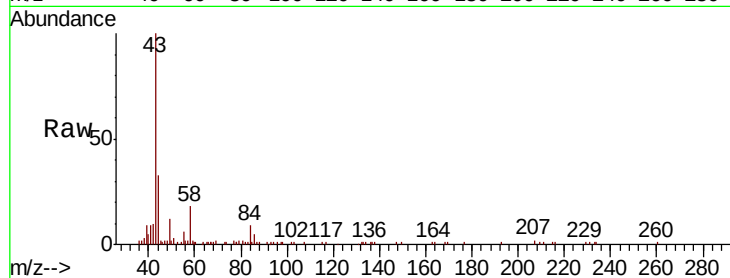




#18
Methyl Acetate
Concen: 31.817 ug/l
RT: 2.33 min Scan# 172
Delta R.T. -0.12 min
Lab File: VF060332.D
Acq: 25 Sep 2018 18:40

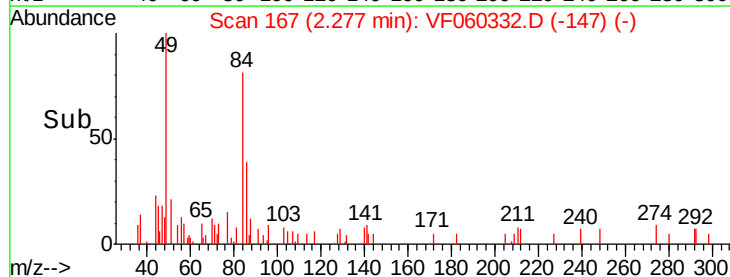
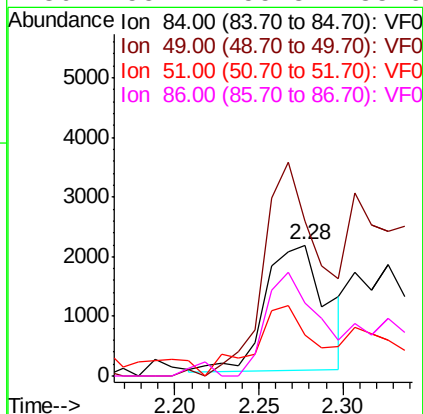
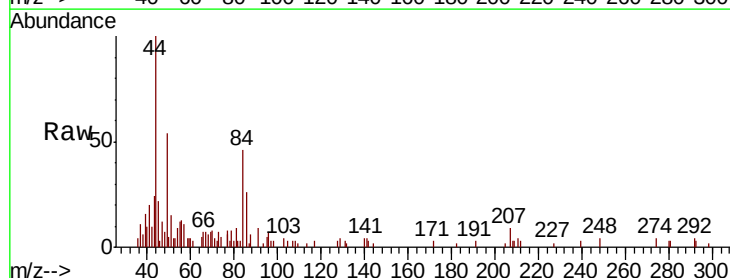
Instrument :
MSVOA_F
ClientSampleId :
COMP

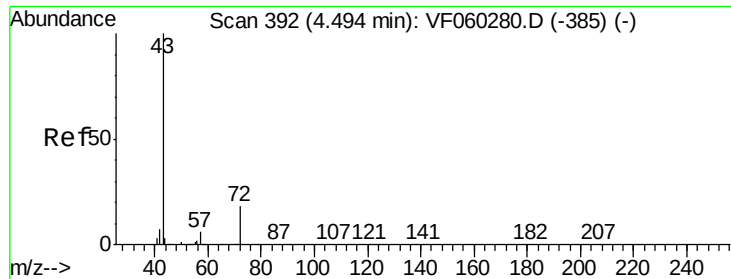
Tgt Ion: 43 Resp: 51723
Ion Ratio Lower Upper
43 100
74 1.0 12.7 19.1#



#20
Methylene Chloride
Concen: Below Cal
RT: 2.28 min Scan# 167
Delta R.T. 0.00 min
Lab File: VF060332.D
Acq: 25 Sep 2018 18:40

Tgt Ion: 84 Resp: 5293
Ion Ratio Lower Upper
84 100
49 118.6 118.3 177.5
51 31.8 38.7 58.1#
86 55.7 55.8 83.6#

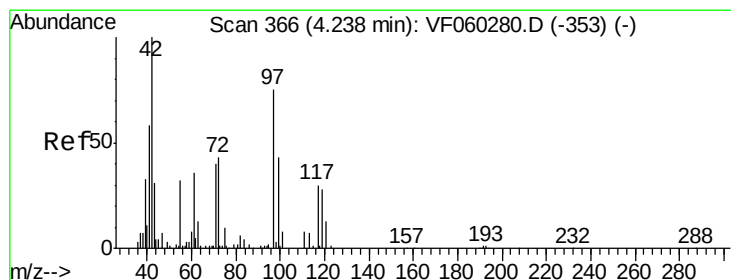
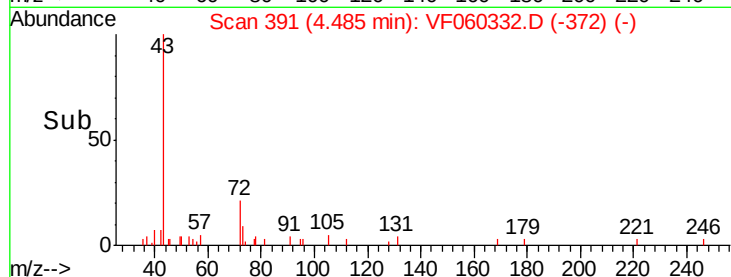
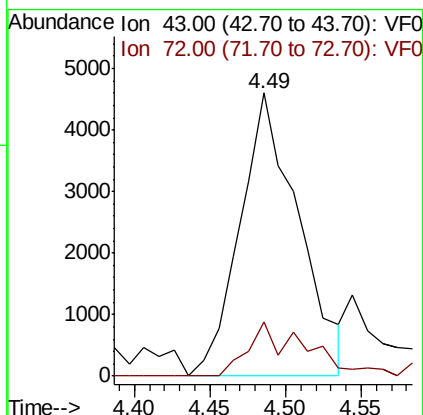
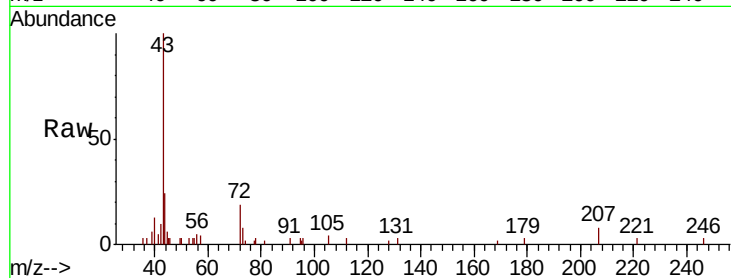




#25
2-Butanone
Concen: 9.446 ug/l
RT: 4.49 min Scan# 391
Delta R.T. -0.01 min
Lab File: VF060332.D
Acq: 25 Sep 2018 18:40

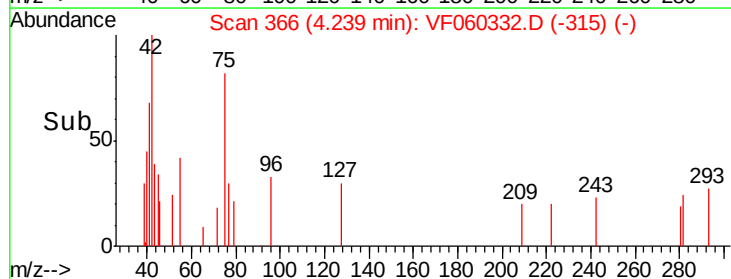
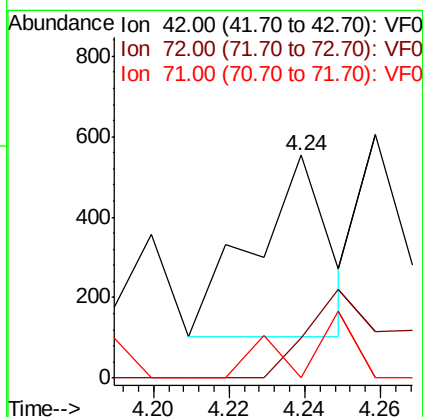
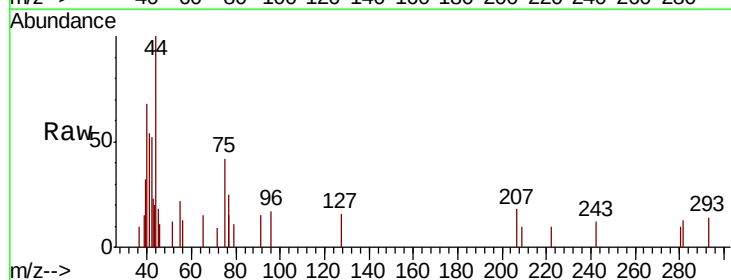
Instrument :
MSVOA_F
ClientSampled :
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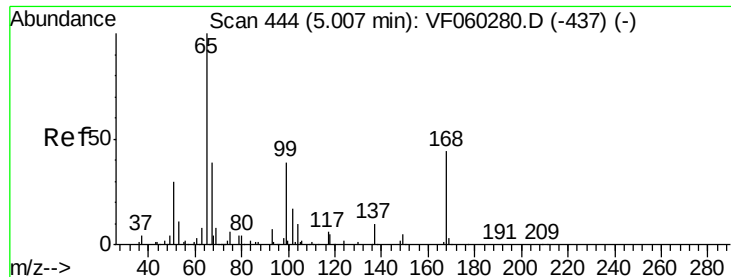
Tgt Ion: 43 Resp: 12407
Ion Ratio Lower Upper
43 100
72 19.3 16.2 24.2



#29
Tetrahydrofuran
Concen: 1.287 ug/l
RT: 4.24 min Scan# 366
Delta R.T. 0.00 min
Lab File: VF060332.D
Acq: 25 Sep 2018 18:40

Tgt Ion: 42 Resp: 619
Ion Ratio Lower Upper
42 100
72 53.3 32.6 49.0#
71 25.8 32.7 49.1#

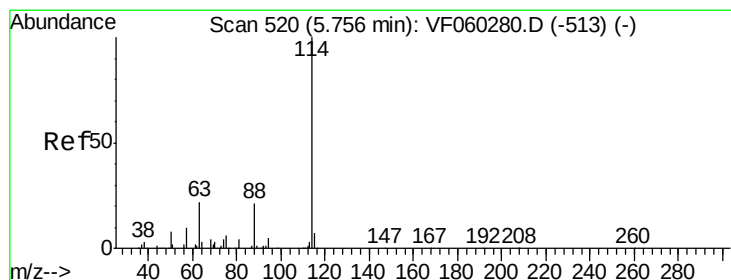
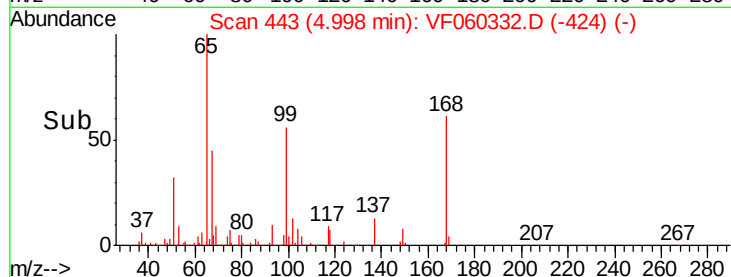
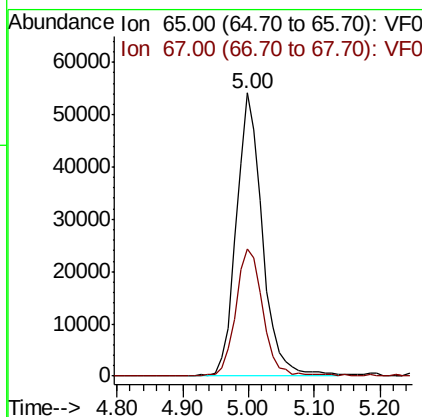
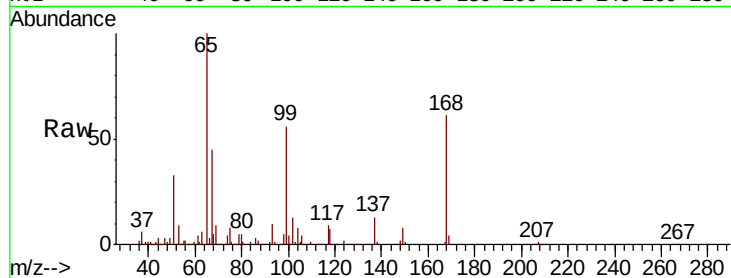




#33
 1,2-Dichloroethane-d4
 Concen: 43.531 ug/l
 RT: 5.00 min Scan# 443
 Delta R.T. -0.01 min
 Lab File: VF060332.D
 Acq: 25 Sep 2018 18:40

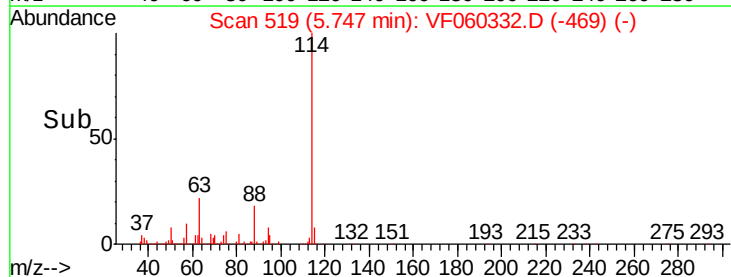
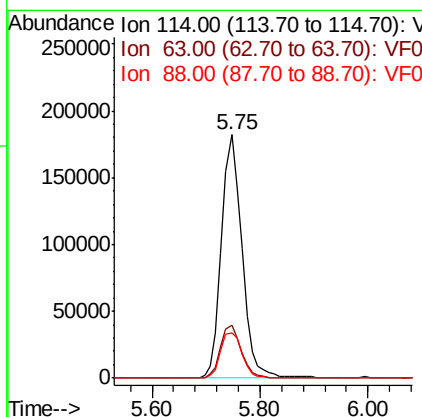
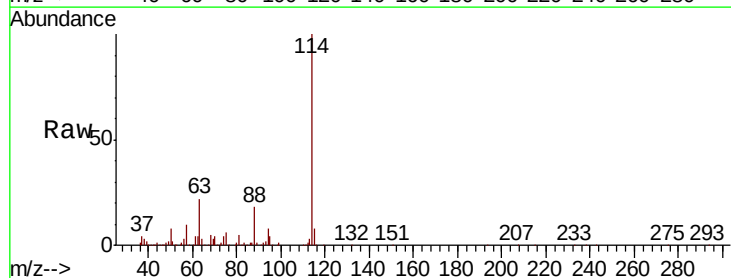
Instrument :
 MSVOA_F
 ClientSampled :
 COMP

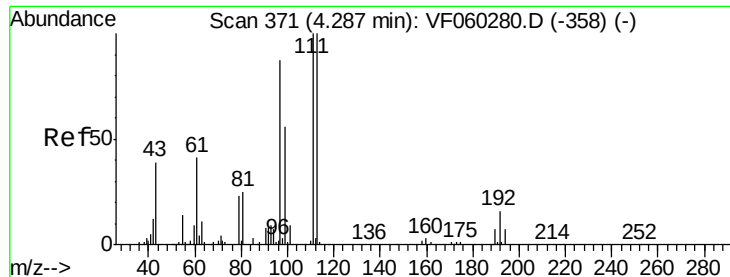
Tgt Ion: 65 Resp: 150835
 Ion Ratio Lower Upper
 65 100
 67 45.1 0.0 94.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.75 min Scan# 519
 Delta R.T. -0.01 min
 Lab File: VF060332.D
 Acq: 25 Sep 2018 18:40

Tgt Ion: 114 Resp: 481801
 Ion Ratio Lower Upper
 114 100
 63 21.9 0.0 43.8
 88 18.5 0.0 41.2





#35

Dibromofluoromethane

Concen: 0.053 ug/l

RT: 4.14 min Scan# 356

Delta R.T. -0.15 min

Lab File: VF060332.D

Acq: 25 Sep 2018 18:40

Instrument :

MSVOA_F

ClientSampled :

COMP

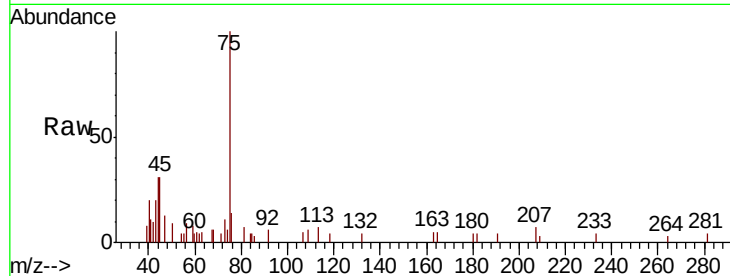
Tgt Ion:113 Resp: 229

Ion Ratio Lower Upper

113 100

111 0.0 79.6 119.4#

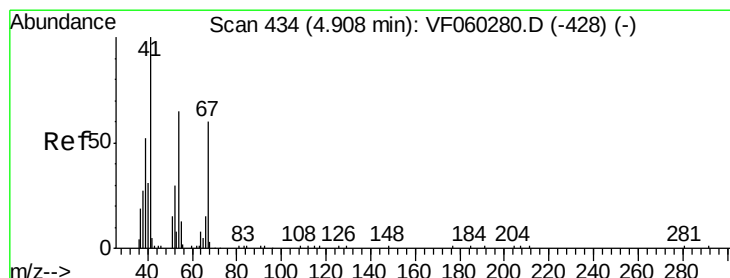
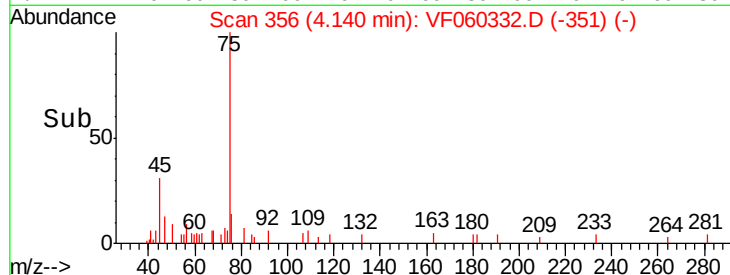
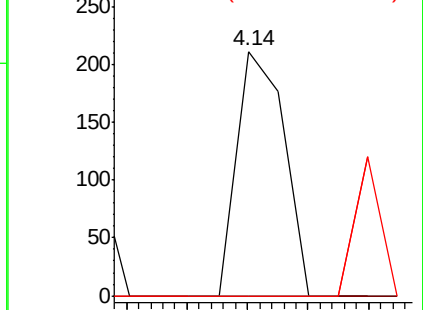
192 0.0 13.0 19.6#



Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V



#41

Methacrylonitrile

Concen: 1.123 ug/l

RT: 4.95 min Scan# 438

Delta R.T. 0.04 min

Lab File: VF060332.D

Acq: 25 Sep 2018 18:40

Tgt Ion: 41 Resp: 1549

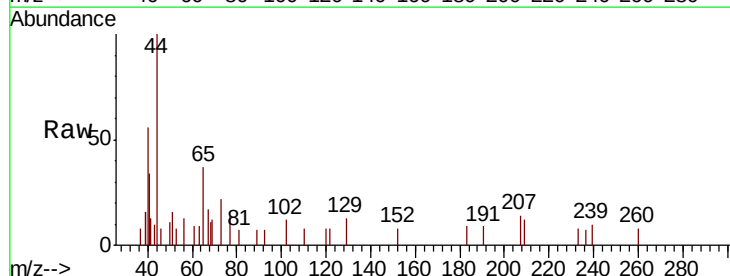
Ion Ratio Lower Upper

41 100

39 69.2 49.1 73.7

67 36.0 48.2 72.4#

52 0.0 35.8 53.8#

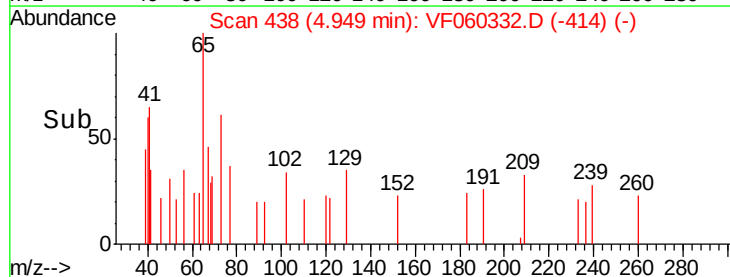
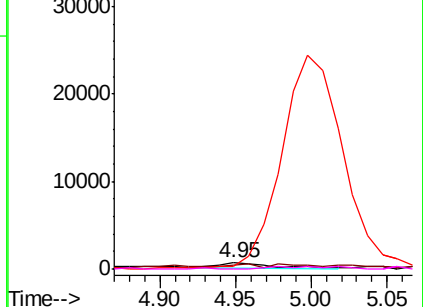


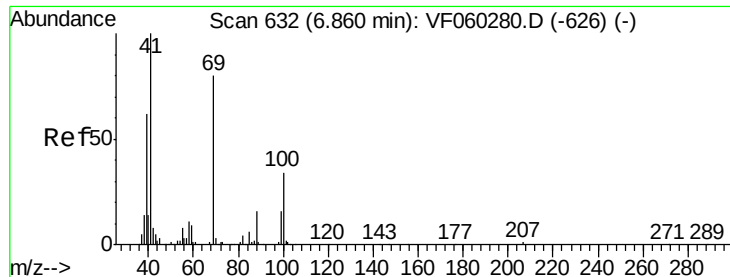
Abundance Ion 41.00 (40.70 to 41.70): VF0

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

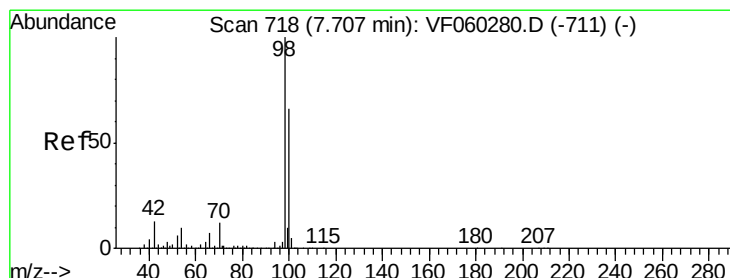
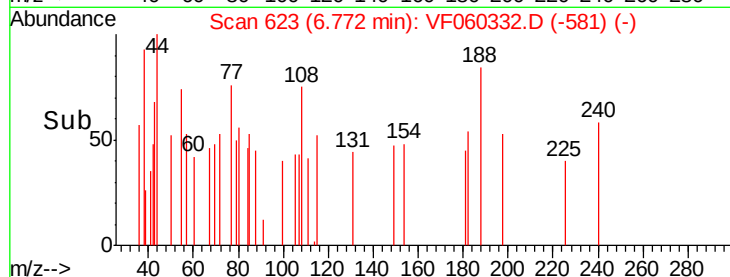
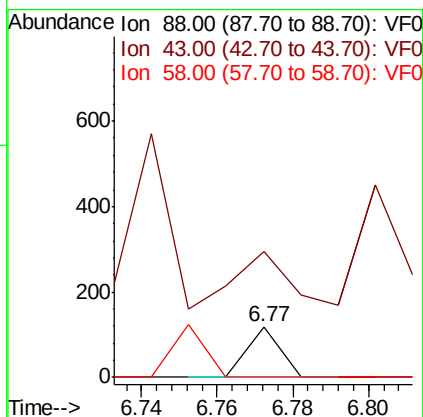
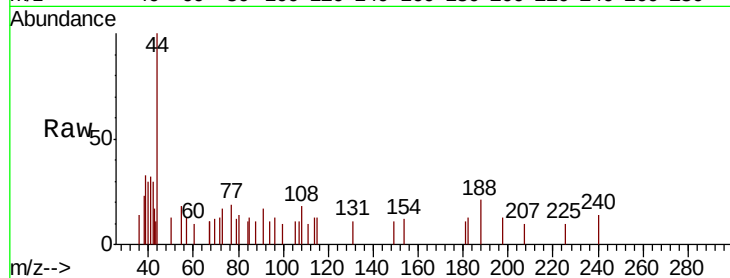




#49
1,4-Dioxane
Concen: 3.646 ug/l
RT: 6.77 min Scan# 623
Delta R.T. -0.09 min
Lab File: VF060332.D
Acq: 25 Sep 2018 18:40

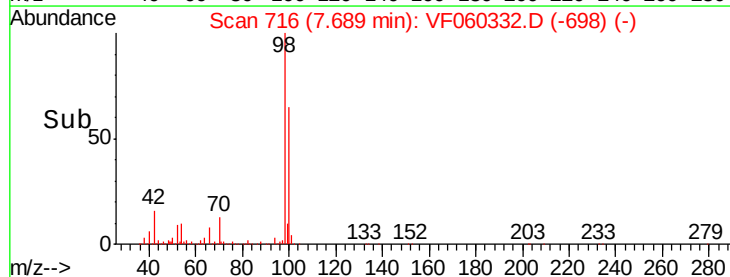
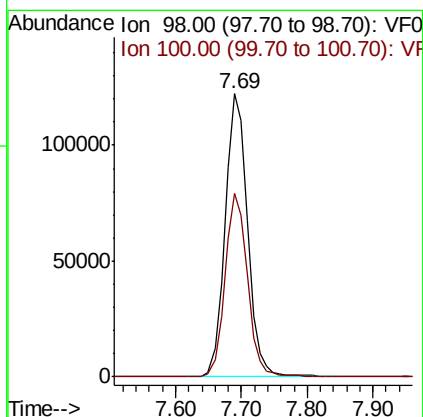
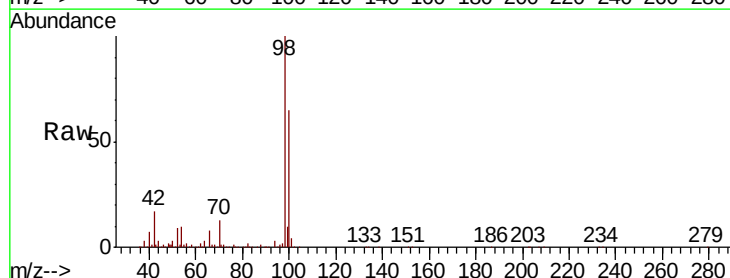
Instrument :
MSVOA_F
ClientSampleId :
COMP

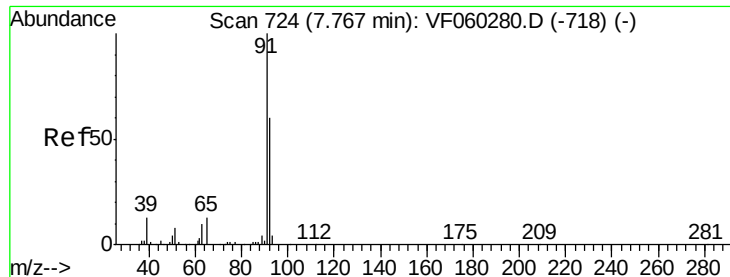
Tgt Ion: 88 Resp: 70
Ion Ratio Lower Upper
88 100
43 247.1 40.2 60.4#
58 0.0 56.7 85.1#



#50
Toluene-d8
Concen: 26.195 ug/l
RT: 7.69 min Scan# 716
Delta R.T. -0.02 min
Lab File: VF060332.D
Acq: 25 Sep 2018 18:40

Tgt Ion: 98 Resp: 292992
Ion Ratio Lower Upper
98 100
100 64.6 53.0 79.6





#58

2-Chloroethyl Vinyl ether

Concen: 3.512 ug/l

RT: 7.76 min Scan# 723

Delta R.T. -0.01 min

Lab File: VF060332.D

Acq: 25 Sep 2018 18:40

Instrument :

MSVOA_F

ClientSampleId :

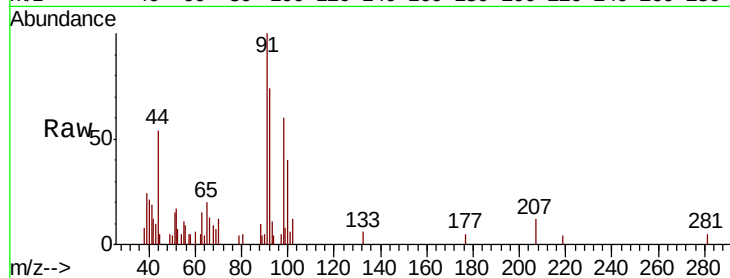
COMP

Tgt Ion: 63 Resp: 981

Ion Ratio Lower Upper

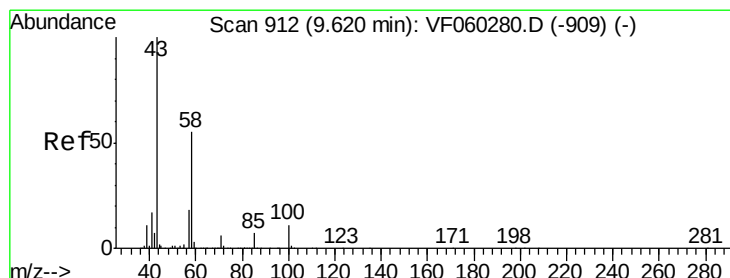
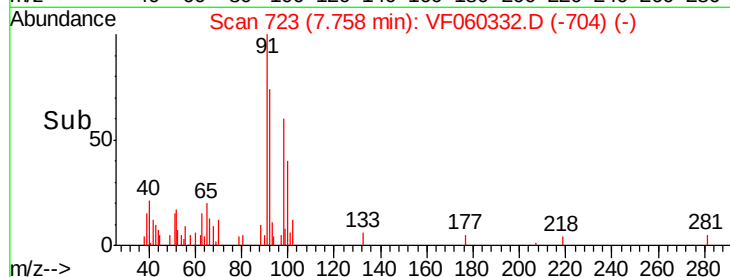
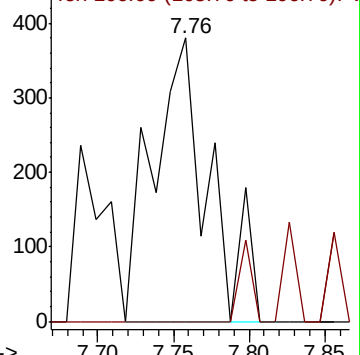
63 100

106 0.0 0.0 0.0



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 106.00 (105.70 to 106.70): VF0



#59

2-Hexanone

Concen: 9.993 ug/l

RT: 9.62 min Scan# 912

Delta R.T. 0.00 min

Lab File: VF060332.D

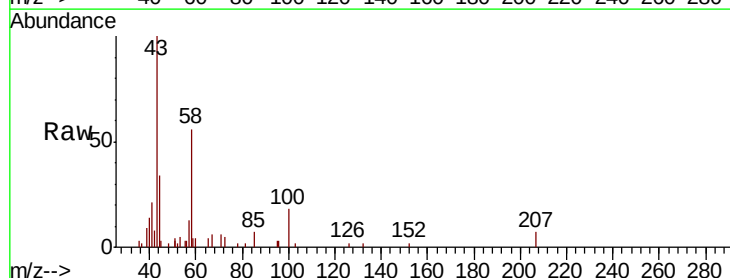
Acq: 25 Sep 2018 18:40

Tgt Ion: 43 Resp: 16788

Ion Ratio Lower Upper

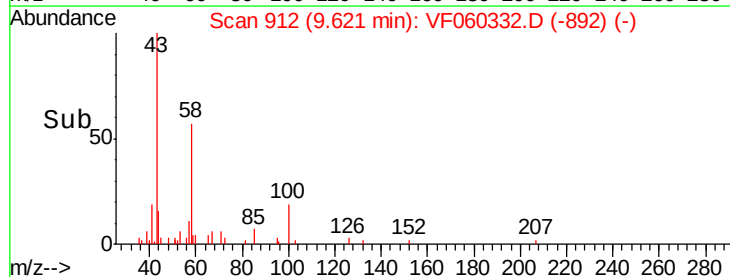
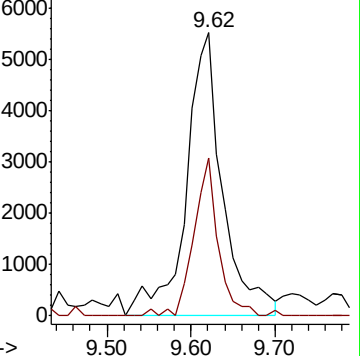
43 100

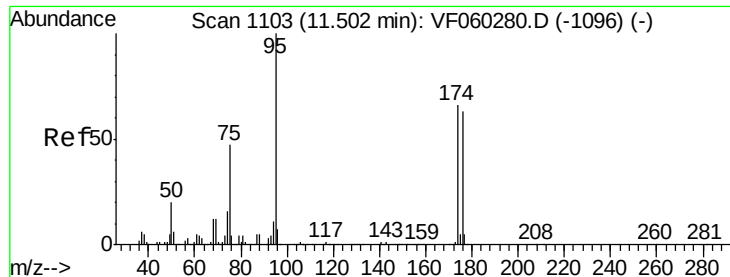
58 55.8 25.9 77.6



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

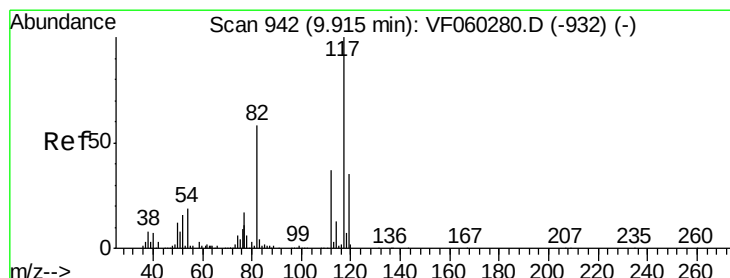
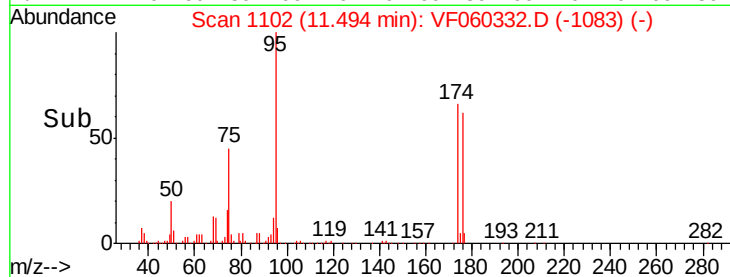
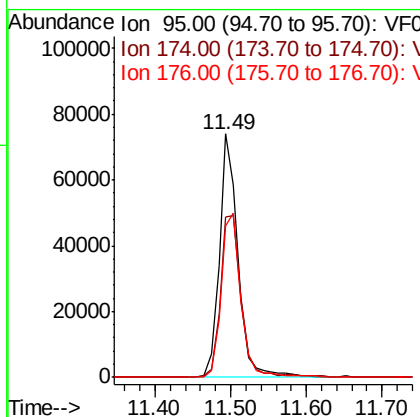
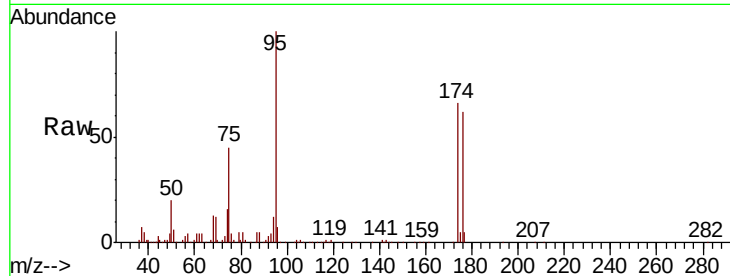




#62
4-Bromofluorobenzene
Concen: 26.303 ug/l
RT: 11.49 min Scan# 1102
Delta R.T. -0.01 min
Lab File: VF060332.D
Acq: 25 Sep 2018 18:40

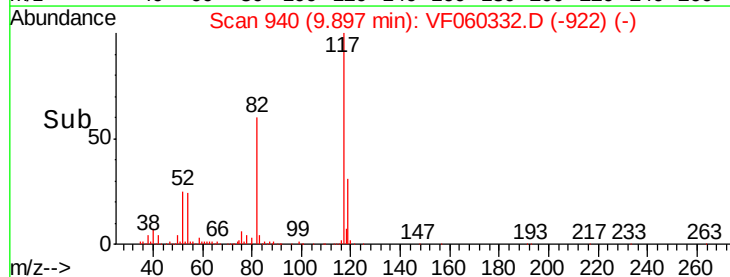
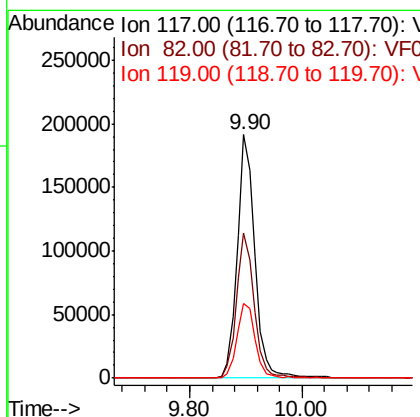
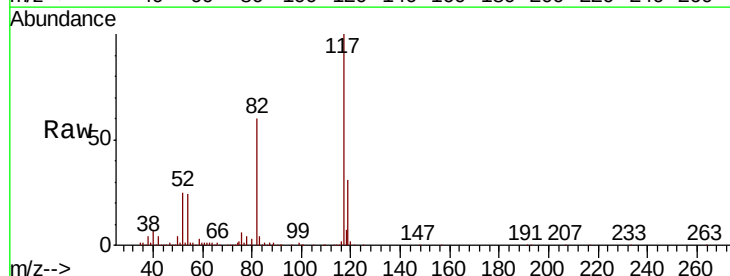
Instrument :
MSVOA_F
ClientSampleId :
COMP

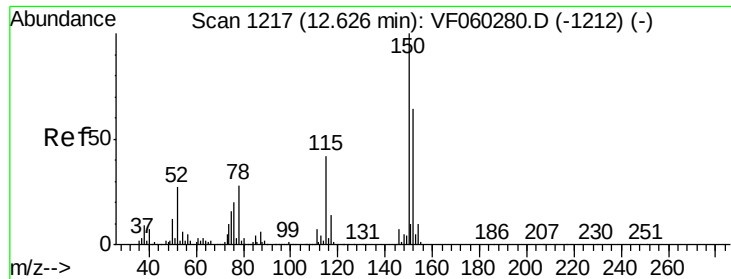
Tgt Ion: 95 Resp: 127172
Ion Ratio Lower Upper
95 100
174 66.1 0.0 131.2
176 62.3 0.0 126.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.90 min Scan# 940
Delta R.T. -0.02 min
Lab File: VF060332.D
Acq: 25 Sep 2018 18:40

Tgt Ion: 117 Resp: 415904
Ion Ratio Lower Upper
117 100
82 59.8 46.2 69.2
119 30.9 27.8 41.6



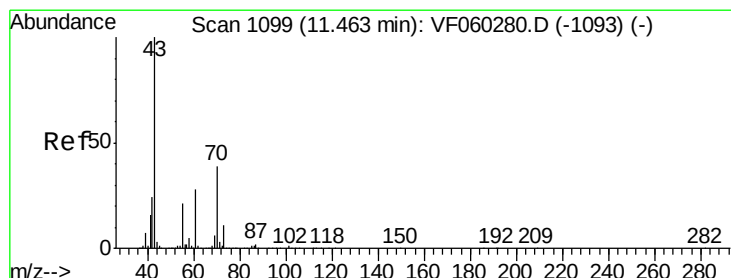
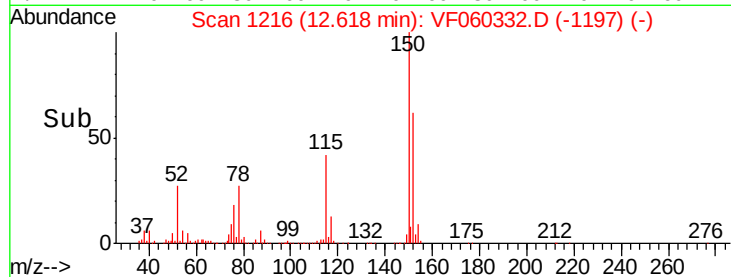
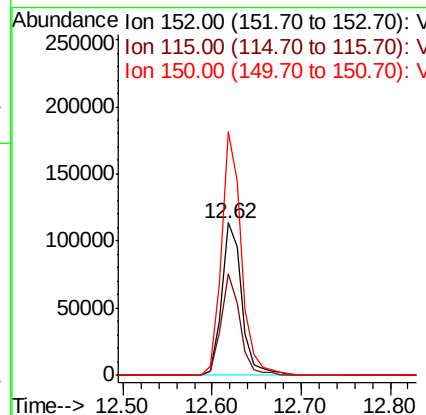
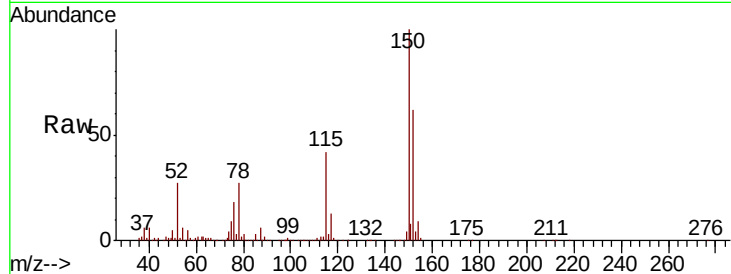


#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.62 min Scan# 1216
Delta R.T. -0.01 min
Lab File: VF060332.D
Acq: 25 Sep 2018 18:40

Instrument :
MSVOA_F
ClientSampleId :
COMP

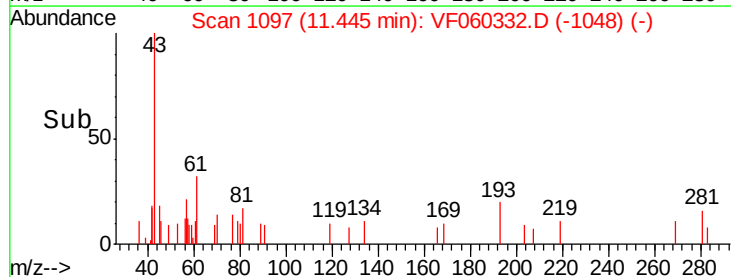
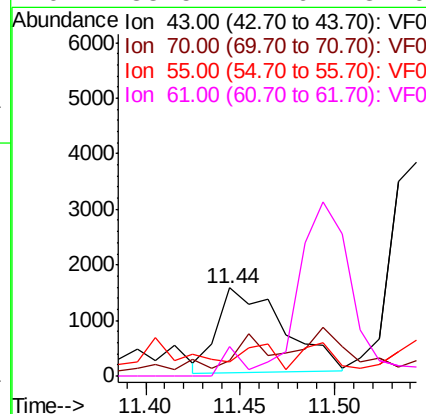
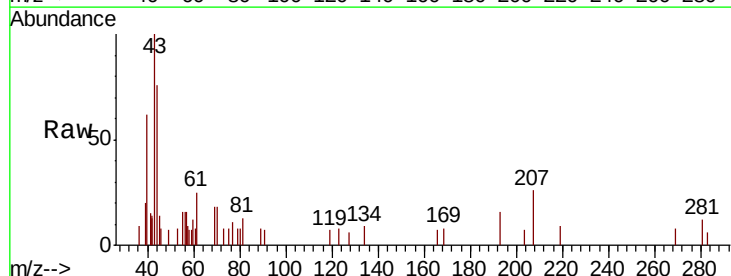
Tgt Ion	Ratio	Lower	Upper
152	100		
115	66.8	32.6	97.8
150	160.1	0.0	314.2

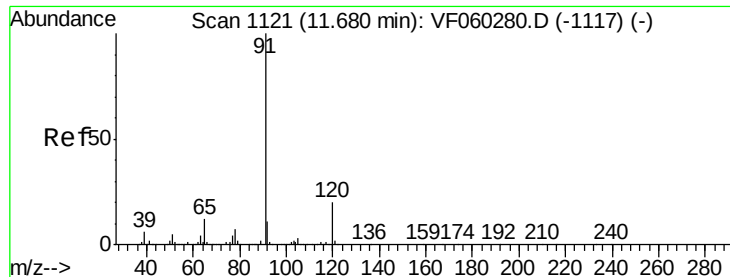


#74

N-amyl acetate
Concen: 1.077 ug/l
RT: 11.44 min Scan# 1097
Delta R.T. -0.02 min
Lab File: VF060332.D
Acq: 25 Sep 2018 18:40

Tgt Ion	Ratio	Lower	Upper
43	100		
70	17.9	31.4	47.2#
55	16.1	16.8	25.2#
61	33.5	22.6	34.0





#78

n-propylbenzene

Concen: Below Cal

RT: 11.68 min Scan# 1121

Delta R.T. 0.00 min

Lab File: VF060332.D

Acq: 25 Sep 2018 18:40

Instrument :

MSVOA_F

ClientSampleId :

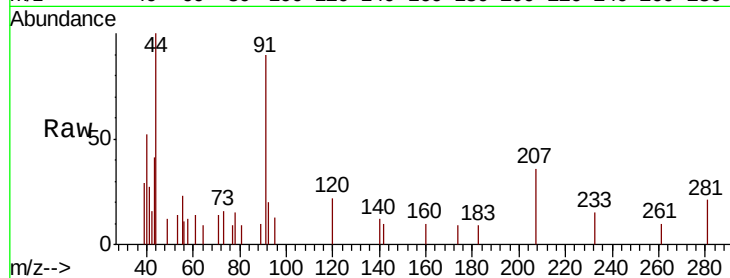
COMP

Tgt Ion: 91 Resp: 1739

Ion Ratio Lower Upper

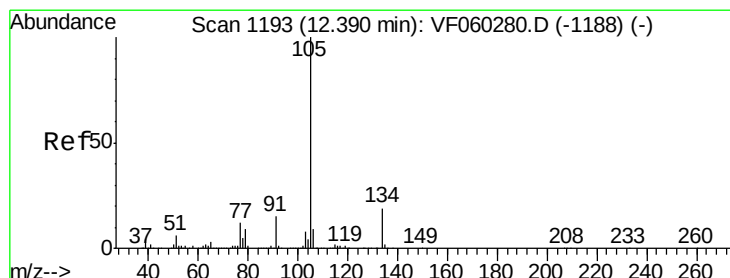
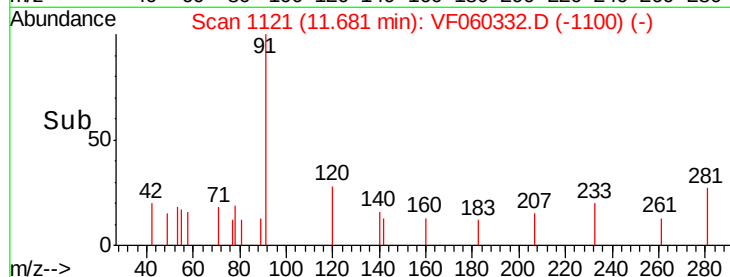
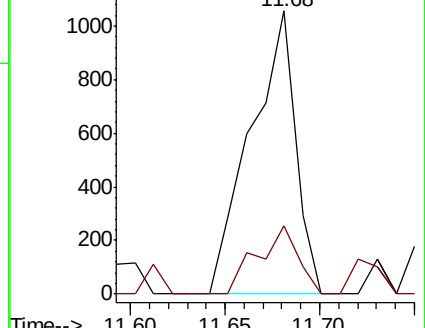
91 100

120 24.0 10.0 29.8



Abundance Ion 91.00 (90.70 to 91.70): VF060280.D (-1117) (-)

Ion 120.00 (119.70 to 120.70): VF060280.D (-1117) (-)



#85

sec-Butylbenzene

Concen: Below Cal

RT: 12.38 min Scan# 1192

Delta R.T. -0.01 min

Lab File: VF060332.D

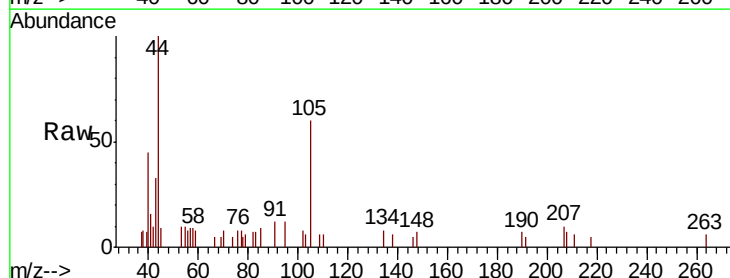
Acq: 25 Sep 2018 18:40

Tgt Ion: 105 Resp: 1893

Ion Ratio Lower Upper

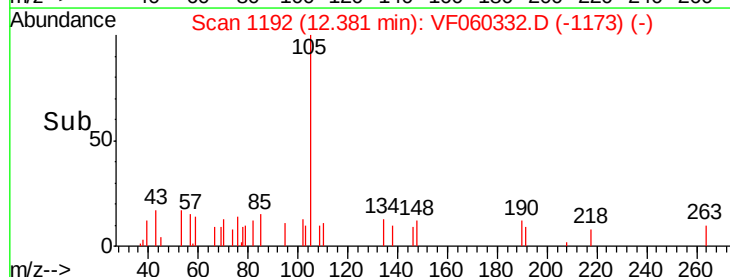
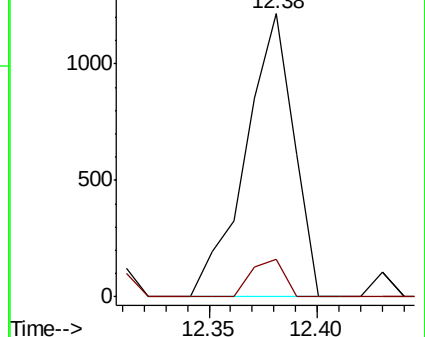
105 100

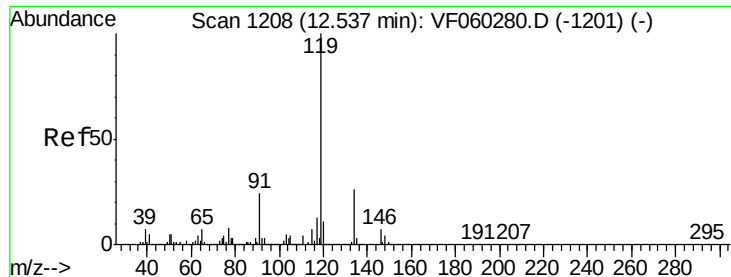
134 13.2 9.6 28.6



Abundance Ion 105.00 (104.70 to 105.70): VF060280.D (-1188) (-)

Ion 134.00 (133.70 to 134.70): VF060280.D (-1188) (-)





#86

p-Isopropyltoluene

Concen: Below Cal

RT: 12.53 min Scan# 1207

Delta R.T. -0.01 min

Lab File: VF060332.D

Acq: 25 Sep 2018 18:40

Instrument :

MSVOA_F

ClientSampleId :

COMP

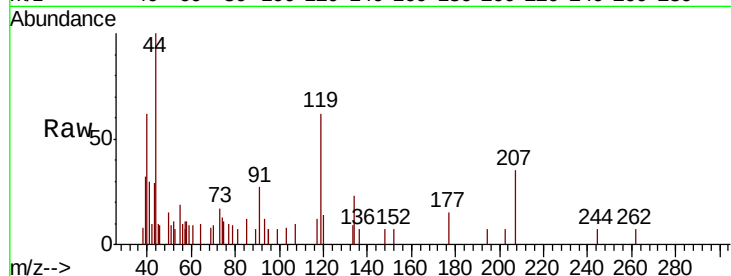
Tgt Ion:119 Resp: 1884

Ion Ratio Lower Upper

119 100

134 36.9 12.9 38.7

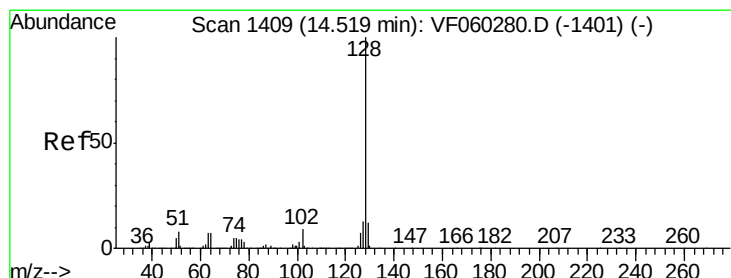
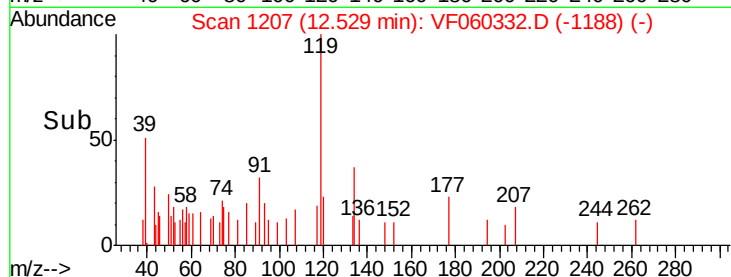
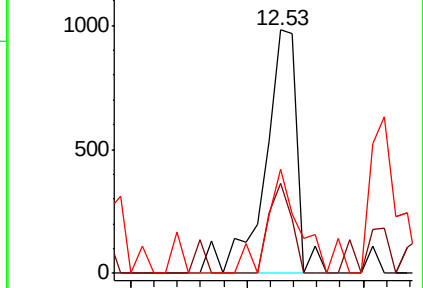
91 43.0 11.9 35.7#



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V



#95

Naphthalene

Concen: 1.645 ug/l

RT: 14.51 min Scan# 1408

Delta R.T. -0.01 min

Lab File: VF060332.D

Acq: 25 Sep 2018 18:40

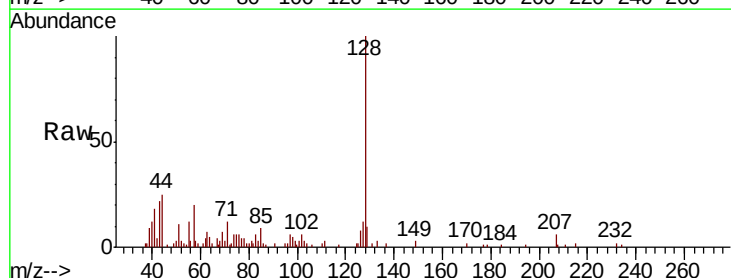
Tgt Ion:128 Resp: 12995

Ion Ratio Lower Upper

128 100

127 12.3 10.1 15.1

129 10.2 9.8 14.8



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

