

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF100418\
 Data File : VF060446.D
 Acq On : 4 Oct 2018 20:01
 Operator : VA/AP
 Sample : J5218-01
 Misc : 5.26/5mL/MSVOA F/SOIL
 ALS Vial : 40 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :

Quant Time: Oct 05 01:12:29 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	5.03	168	146934	50.00	ug/l	0.02
34) 1,4-Difluorobenzene	5.76	114	251678	50.00	ug/l	0.02
63) Chlorobenzene-d5	9.91	117	152711	50.00	ug/l	0.02
72) 1,4-Dichlorobenzene-d4	12.63	152	51320	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.01	65	148821	64.73	ug/l	0.02
Spiked Amount			Recovery	=	129.46%	
35) Dibromofluoromethane	4.28	113	140429	59.39	ug/l	0.02
Spiked Amount			Recovery	=	118.78%	
50) Toluene-d8	7.70	98	138441	23.78	ug/l	0.02
Spiked Amount			Recovery	=	47.56%	
62) 4-Bromofluorobenzene	11.50	95	81424	30.63	ug/l	0.02
Spiked Amount			Recovery	=	61.26%	

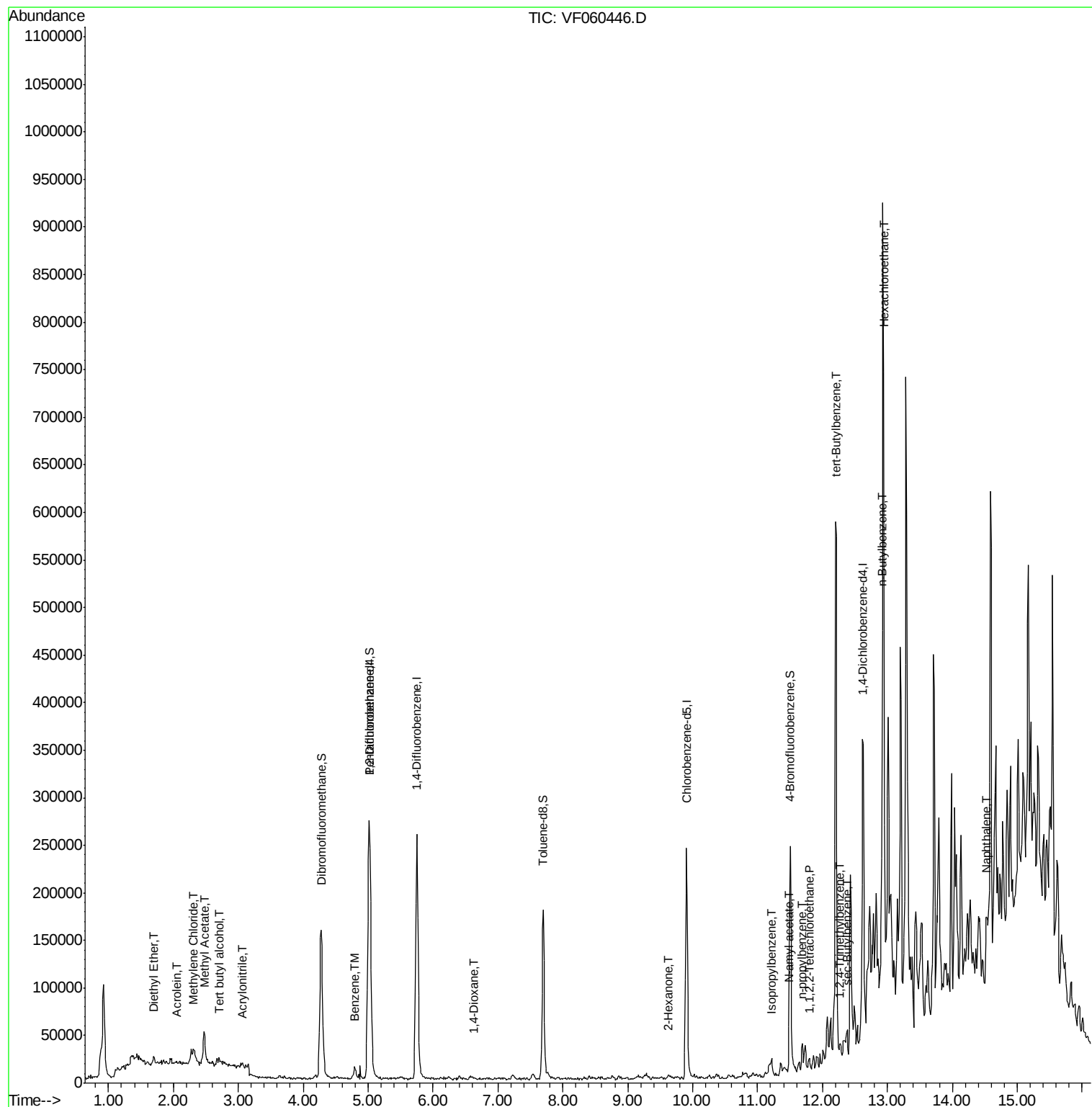
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.00	85	146	Below Cal	#	43
8) Diethyl Ether	1.70	74	2538	3.846	ug/l	80
11) Tert butyl alcohol	2.69	59	6868	49.385	ug/l #	86
13) Acrolein	2.04	56	267	2.387	ug/l	85
15) Acrylonitrile	3.07	53	893	3.747	ug/l #	32
16) Acetone	2.34	43	9150	Below Cal		95
18) Methyl Acetate	2.48	43	19625	21.705	ug/l #	73
20) Methylene Chloride	2.31	84	11029	1.129	ug/l	88
29) Tetrahydrofuran	4.25	42	822	Below Cal	#	47
40) Benzene	4.79	78	12739	2.068	ug/l	99
49) 1,4-Dioxane	6.63	88	84	9.451	ug/l #	8
59) 2-Hexanone	9.63	43	4175	5.568	ug/l	71
73) Isopropylbenzene	11.22	105	8045	1.991	ug/l	90
74) N-amyl acetate	11.47	43	3163	3.411	ug/l #	65
75) 1,1,2,2-Tetrachloroethane	11.80	83	1686	2.289	ug/l #	59
78) n-propylbenzene	11.68	91	5612	1.146	ug/l	83
83) tert-Butylbenzene	12.20	119	238874	70.544	ug/l	85
84) 1,2,4-Trimethylbenzene	12.28	105	4670	1.372	ug/l	93
85) sec-Butylbenzene	12.38	105	9864	2.110	ug/l	85
89) n-Butylbenzene	12.91	91	10125	2.506	ug/l	80
90) Hexachloroethane	12.95	117	1036	1.050	ug/l #	27
95) Naphthalene	14.52	128	3476	1.597	ug/l #	66

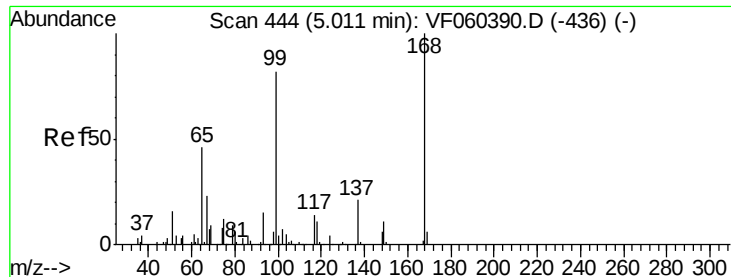
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: 5.03 min Scan# 446

Delta R.T. 0.02 min

Lab File: VF060446.D

Acq: 4 Oct 2018 20:01

Instrument :

MSVOA_F

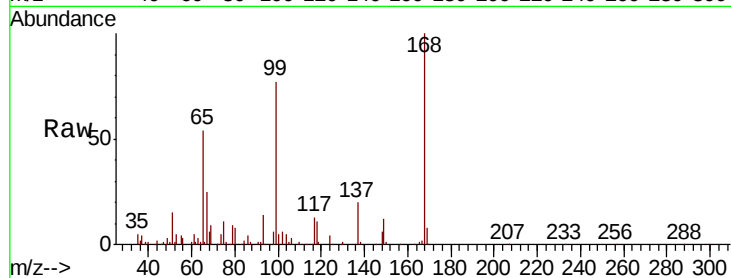
ClientSampleId :

Tot Ion:168 Resp: 146934

Ion Ratio Lower Upper

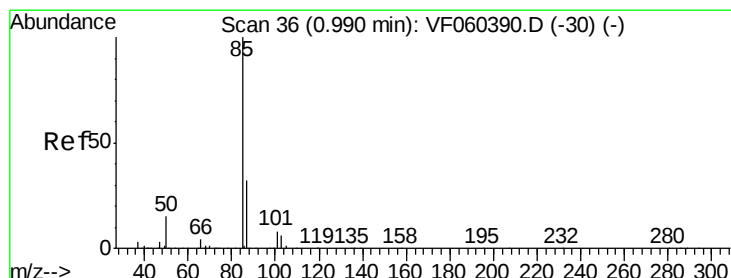
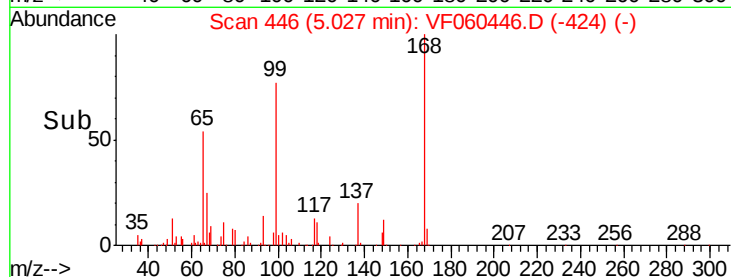
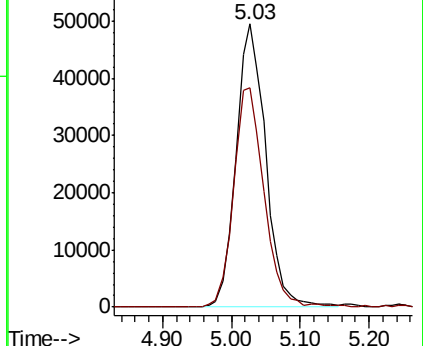
168 100

99 77.3 65.3 97.9



Abundance Ion 168.00 (167.70 to 168.70): V

Ion 99.00 (98.70 to 99.70): VF0



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.00 min Scan# 37

Delta R.T. 0.01 min

Lab File: VF060446.D

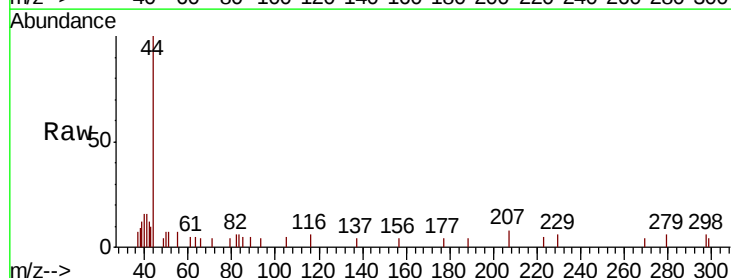
Acq: 4 Oct 2018 20:01

Tgt Ion: 85 Resp: 146

Ion Ratio Lower Upper

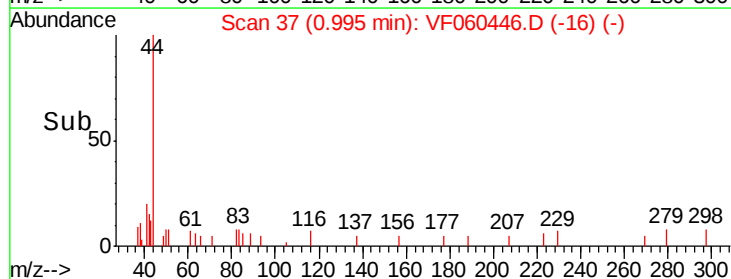
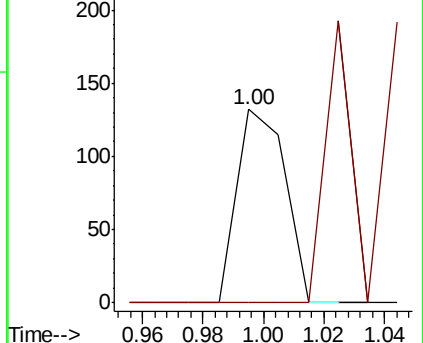
85 100

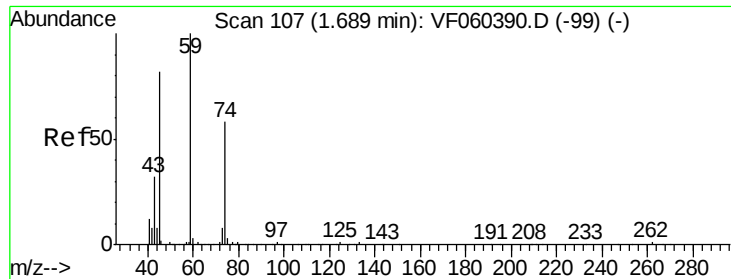
87 0.0 15.9 47.6#



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

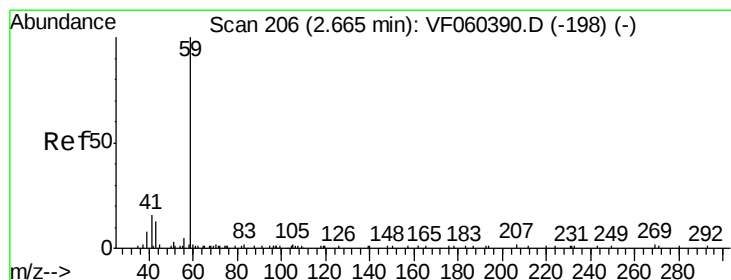
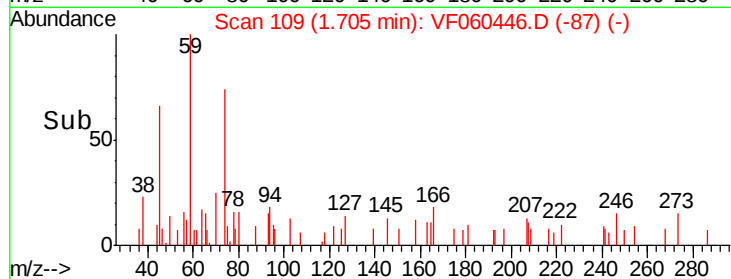
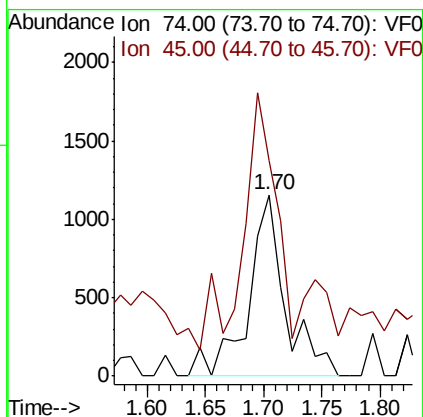
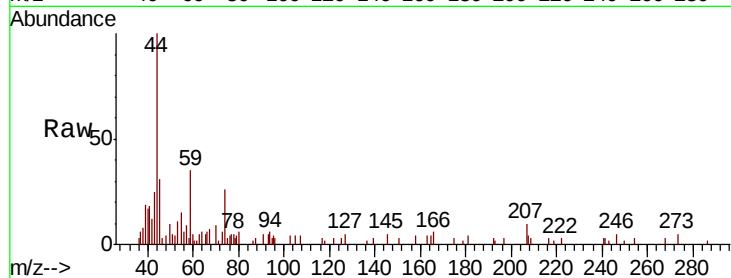




#8
Diethyl Ether
Concen: 3.846 ug/l
RT: 1.70 min Scan# 109
Delta R.T. 0.02 min
Lab File: VF060446.D
Acq: 4 Oct 2018 20:01

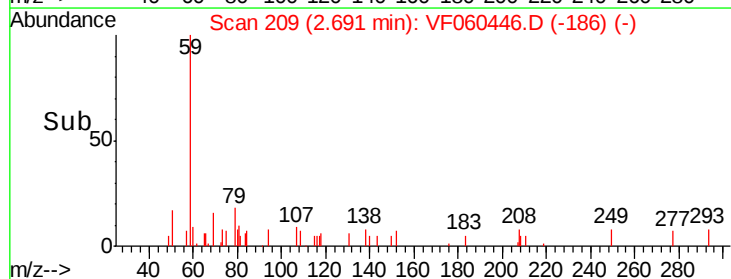
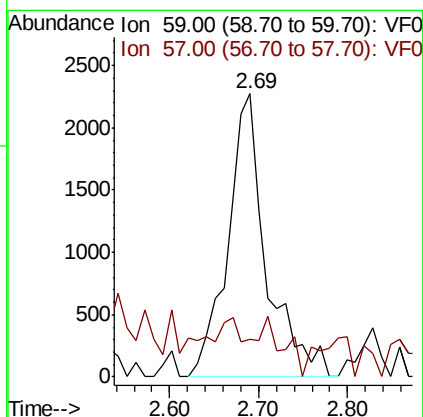
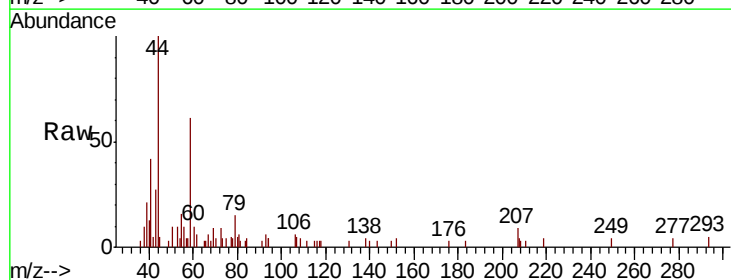
Instrument :
MSVOA_F
ClientSampled :

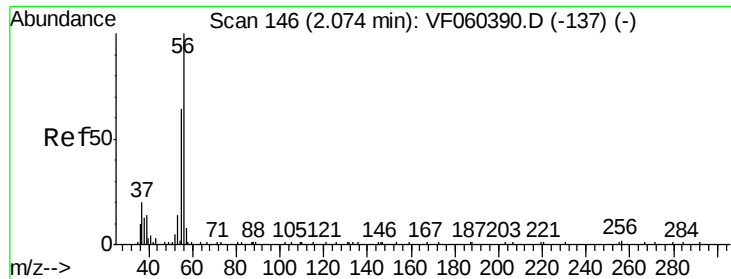
Tot Ion: 74 Resp: 2538
Ion Ratio Lower Upper
74 100
45 118.5 71.3 213.8



#11
Tert butyl alcohol
Concen: 49.385 ug/l
RT: 2.69 min Scan# 209
Delta R.T. 0.03 min
Lab File: VF060446.D
Acq: 4 Oct 2018 20:01

Tgt Ion: 59 Resp: 6868
Ion Ratio Lower Upper
59 100
57 13.1 6.5 9.7#





#13

Acrolein

Concen: 2.387 ug/l

RT: 2.04 min Scan# 143

Delta R.T. -0.03 min

Lab File: VF060446.D

Acq: 4 Oct 2018 20:01

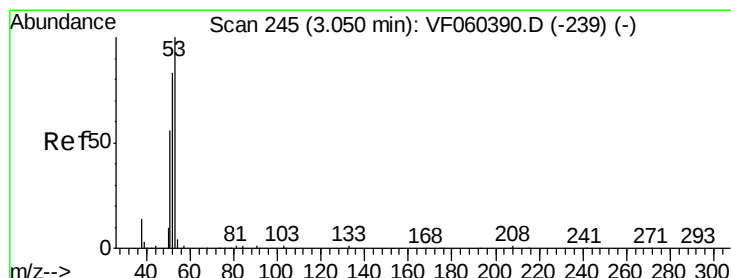
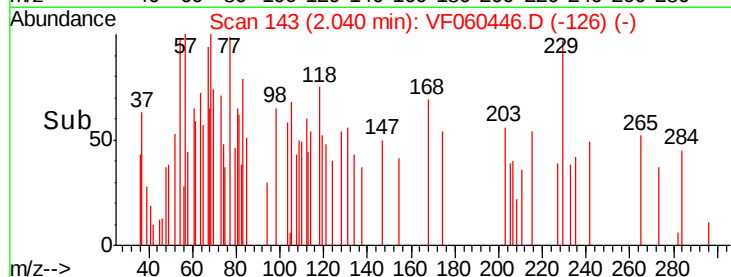
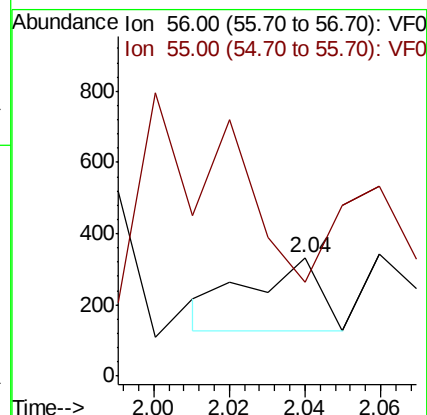
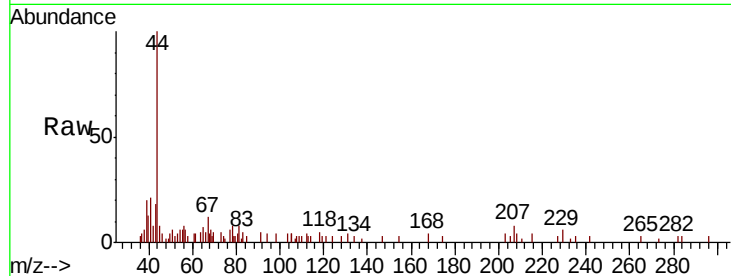
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 56 Resp: 267

Ion Ratio Lower Upper

56 100

55 79.3 53.9 80.9



#15

Acrylonitrile

Concen: 3.747 ug/l

RT: 3.07 min Scan# 248

Delta R.T. 0.03 min

Lab File: VF060446.D

Acq: 4 Oct 2018 20:01

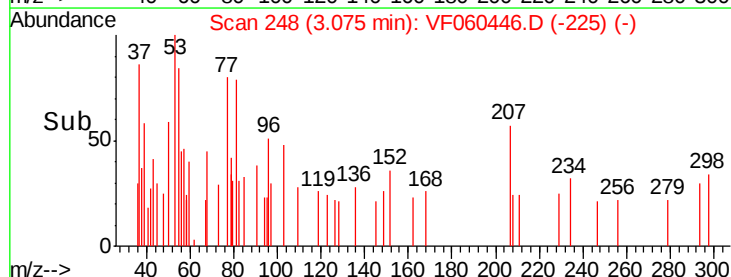
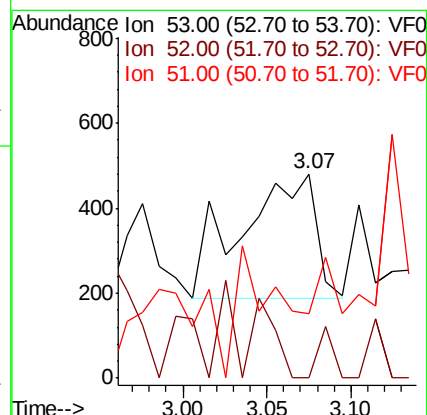
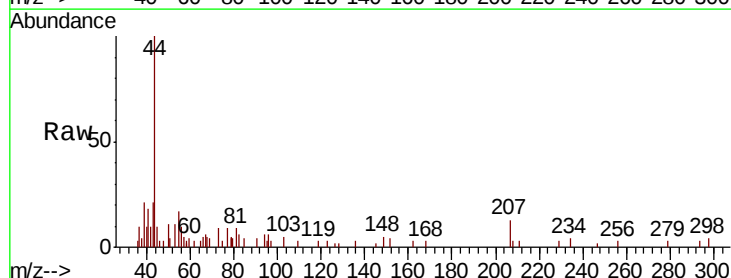
Tgt Ion: 53 Resp: 893

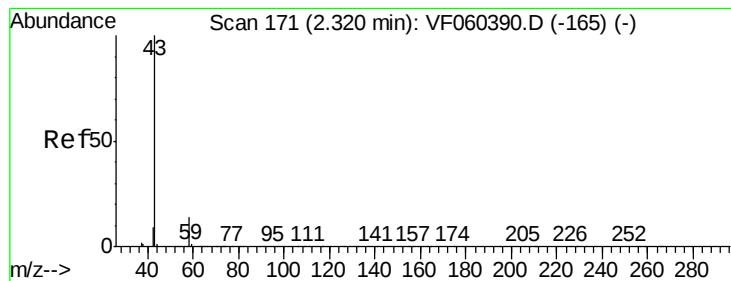
Ion Ratio Lower Upper

53 100

52 0.0 66.0 99.0#

51 31.7 45.6 68.4#





#16

Acetone

Concen: Below Cal

RT: 2.34 min Scan# 173

Delta R.T. 0.02 min

Lab File: VF060446.D

Acq: 4 Oct 2018 20:01

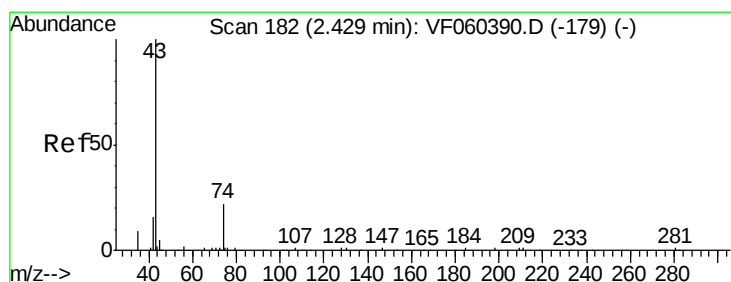
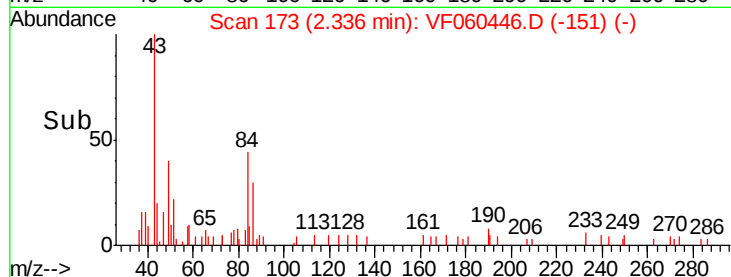
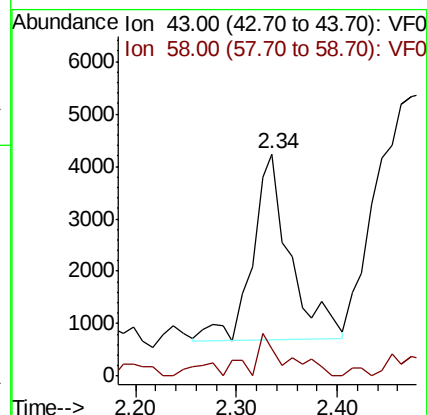
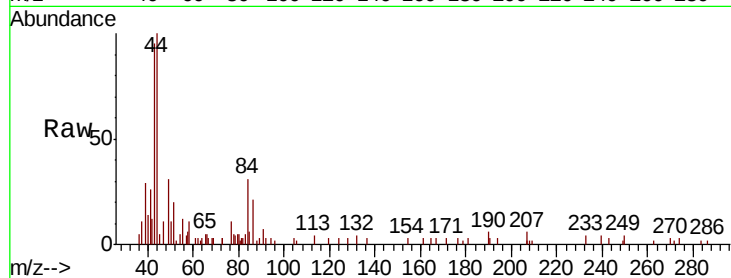
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 43 Resp: 9150

Ion Ratio Lower Upper

43 100

58 12.1 11.2 16.8



#18

Methyl Acetate

Concen: 21.705 ug/l

RT: 2.48 min Scan# 188

Delta R.T. 0.06 min

Lab File: VF060446.D

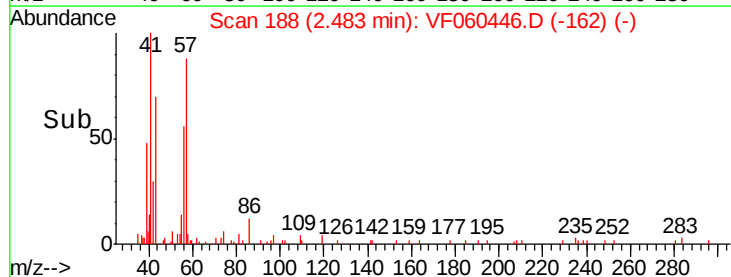
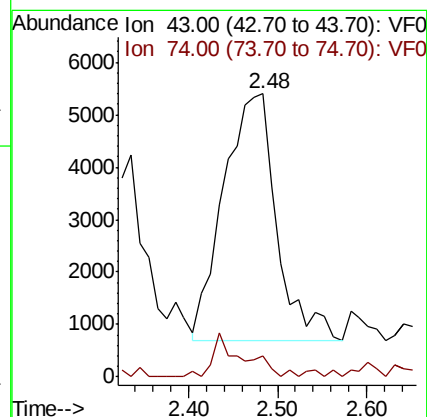
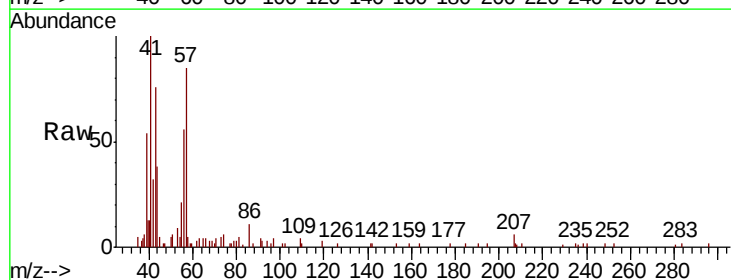
Acq: 4 Oct 2018 20:01

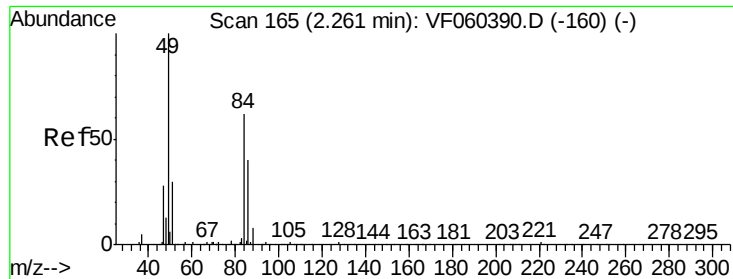
Tgt Ion: 43 Resp: 19625

Ion Ratio Lower Upper

43 100

74 7.4 15.8 23.8#

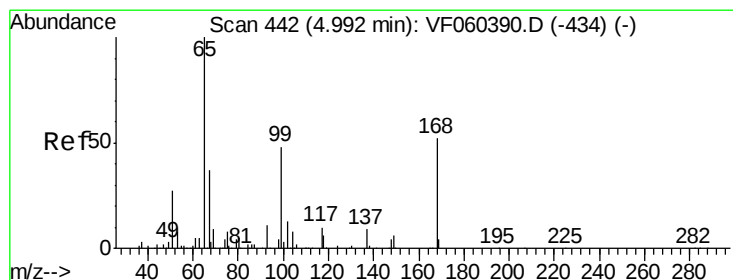
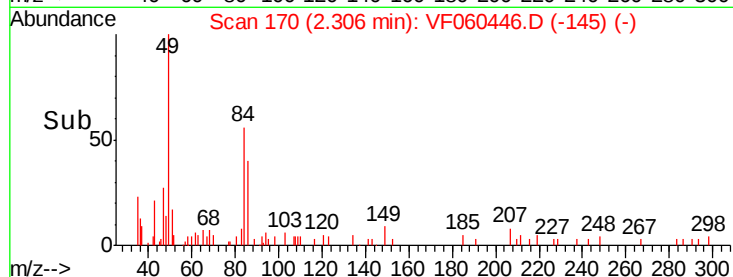
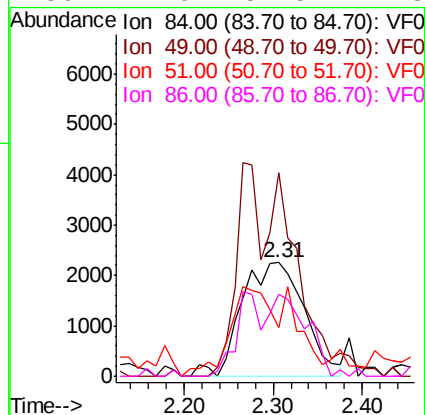
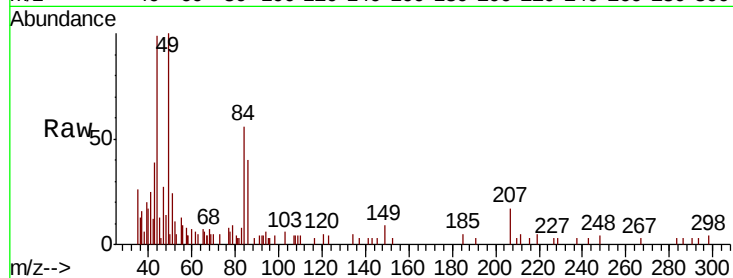




#20
Methvlene Chloride
Concen: 1.129 ug/l
RT: 2.31 min Scan# 170
Delta R.T. 0.05 min
Lab File: VF060446.D
Acq: 4 Oct 2018 20:01

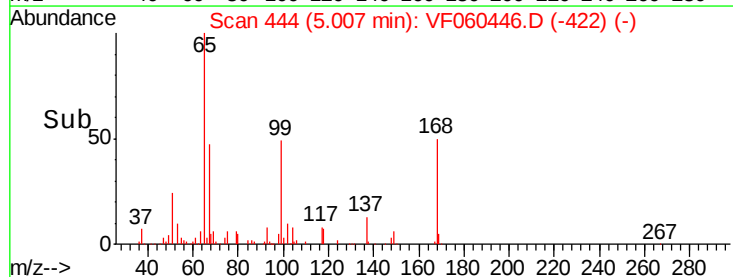
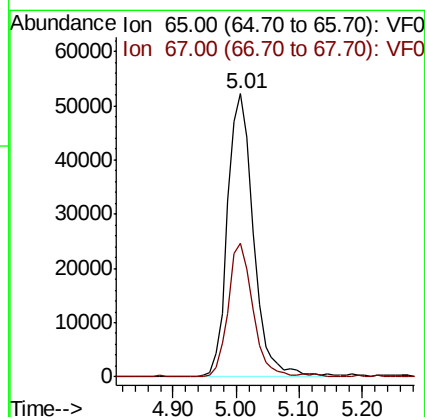
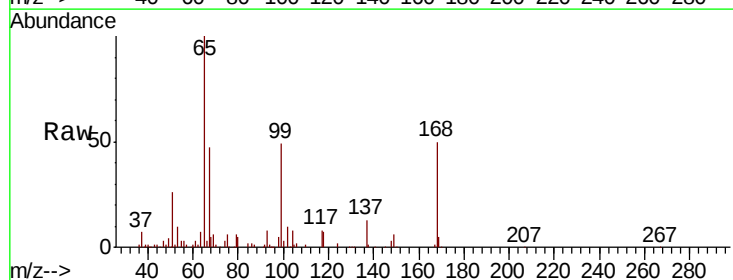
Instrument :
MSVOA_F
ClientSampleId :

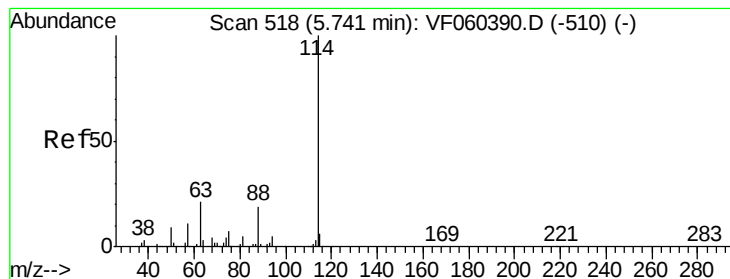
Tot Ion: 84 Resp: 11029
Ion Ratio Lower Upper
84 100
49 179.6 130.2 195.2
51 43.2 41.0 61.6
86 72.0 51.5 77.3



#33
1,2-Dichloroethane-d4
Concen: 64.728 ug/l
RT: 5.01 min Scan# 444
Delta R.T. 0.02 min
Lab File: VF060446.D
Acq: 4 Oct 2018 20:01

Tgt Ion: 65 Resp: 148821
Ion Ratio Lower Upper
65 100
67 47.1 0.0 89.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.76 min Scan# 520

Delta R.T. 0.02 min

Lab File: VF060446.D

Acq: 4 Oct 2018 20:01

Instrument :

MSVOA_F

ClientSampleId :

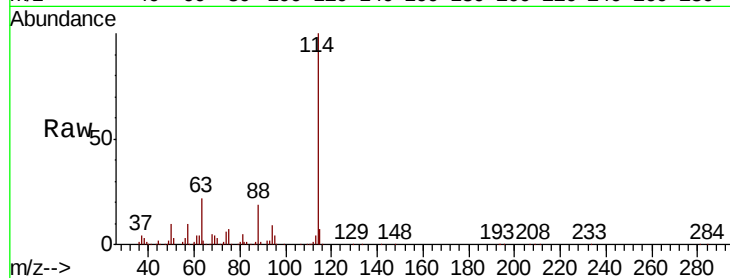
Tot Ion:114 Resp: 251678

Ion Ratio Lower Upper

114 100

63 22.3 0.0 42.2

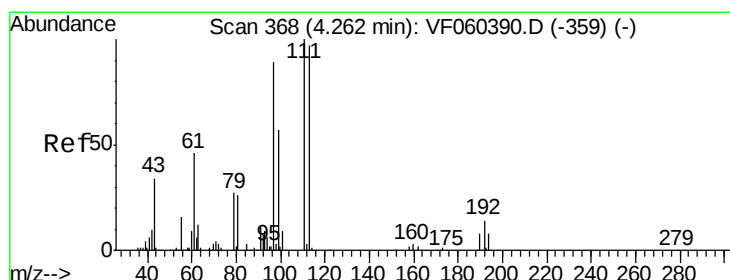
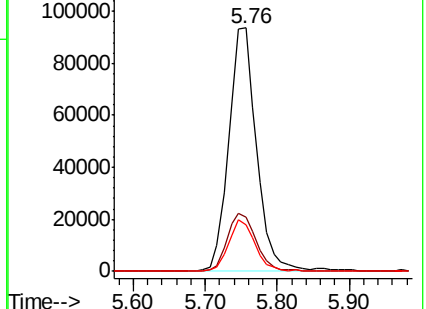
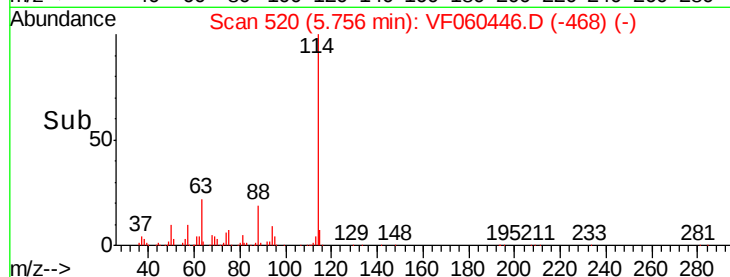
88 19.3 0.0 38.8



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: 59.394 ug/l

RT: 4.28 min Scan# 370

Delta R.T. 0.02 min

Lab File: VF060446.D

Acq: 4 Oct 2018 20:01

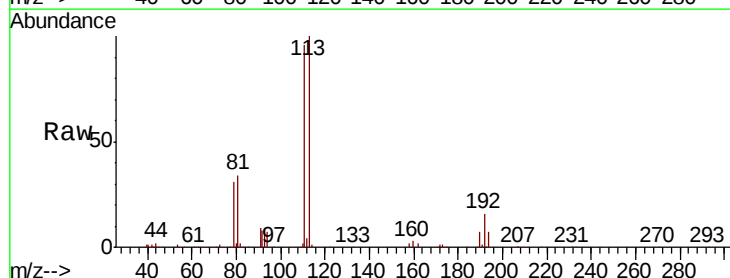
Tgt Ion:113 Resp: 140429

Ion Ratio Lower Upper

113 100

111 96.0 82.3 123.5

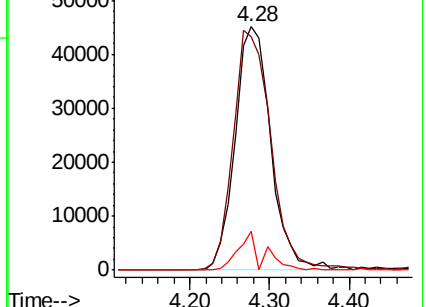
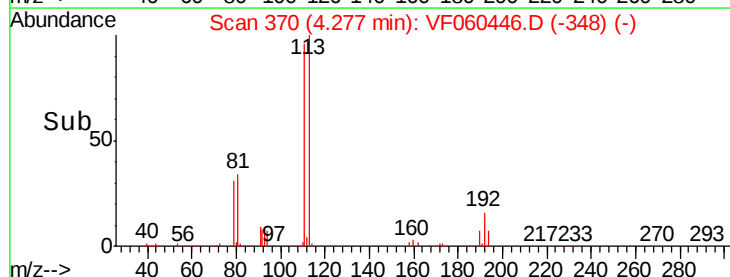
192 16.1 11.8 17.6

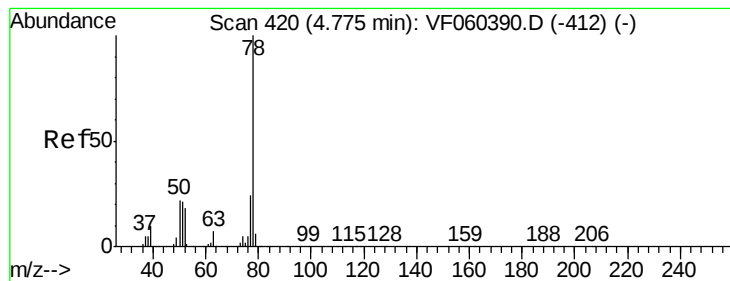


Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V





#40

Benzene

Concen: 2.068 ug/l

RT: 4.79 min Scan# 422

Delta R.T. 0.02 min

Lab File: VF060446.D

Acq: 4 Oct 2018 20:01

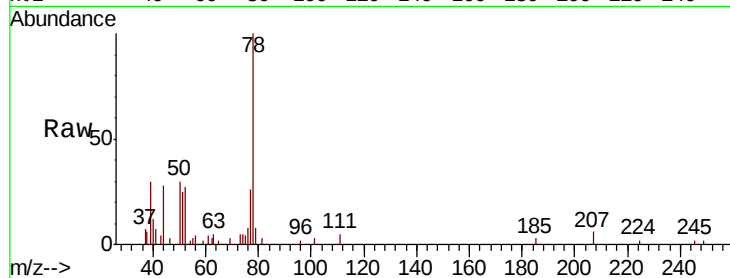
Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 78 Resp: 12739

Ion Ratio Lower Upper

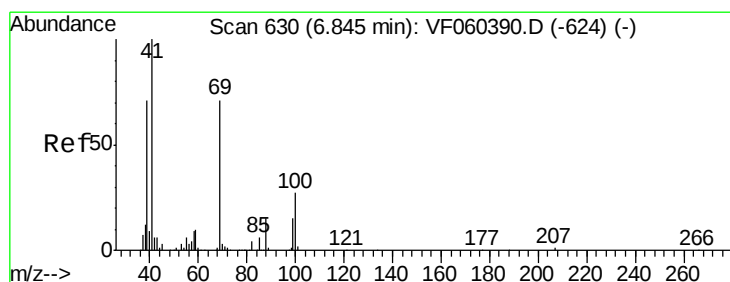
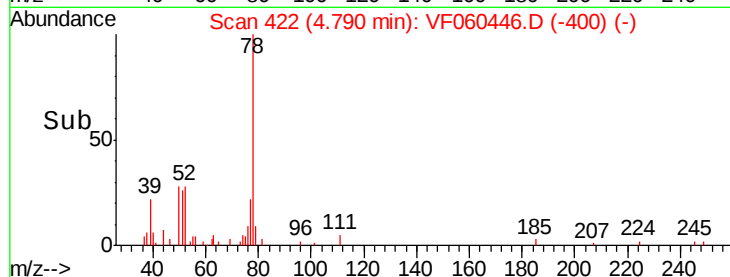
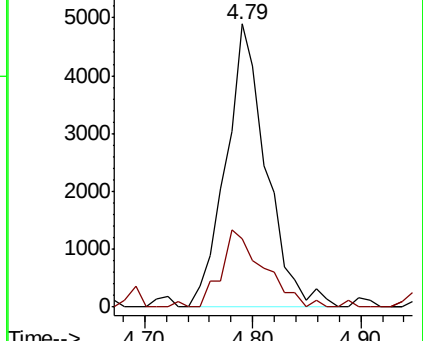
78 100

77 24.4 19.2 28.8



Abundance Ion 78.10 (77.80 to 78.80): VF0

Ion 77.00 (76.70 to 77.70): VF0



#49

1,4-Dioxane

Concen: 9.451 ug/l

RT: 6.63 min Scan# 609

Delta R.T. -0.21 min

Lab File: VF060446.D

Acq: 4 Oct 2018 20:01

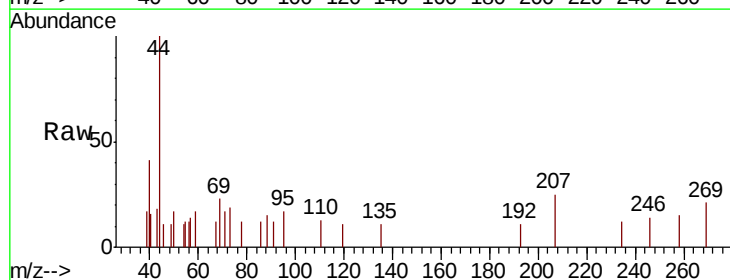
Tgt Ion: 88 Resp: 84

Ion Ratio Lower Upper

88 100

43 121.8 38.3 57.5#

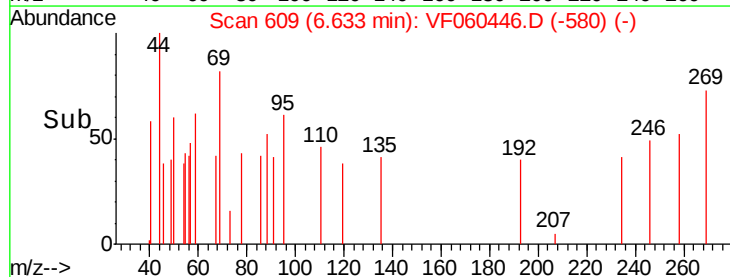
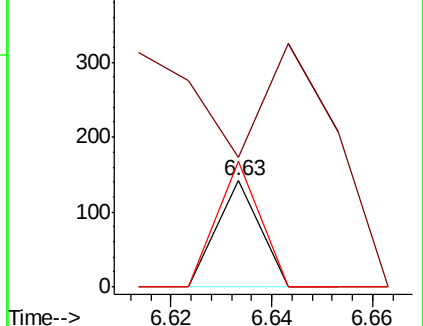
58 117.6 47.4 71.2#

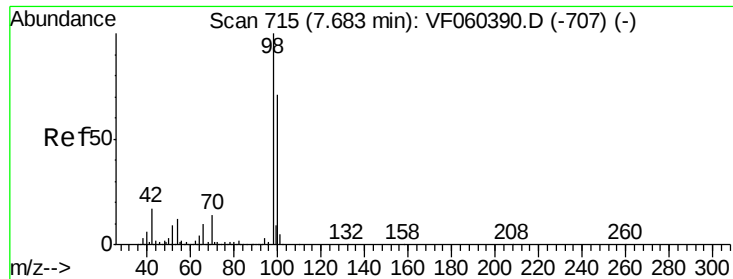


Abundance Ion 88.00 (87.70 to 88.70): VF0

Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0





#50

Toluene-d8

Concen: 23.775 ug/l

RT: 7.70 min Scan# 717

Delta R.T. 0.02 min

Lab File: VF060446.D

Acq: 4 Oct 2018 20:01

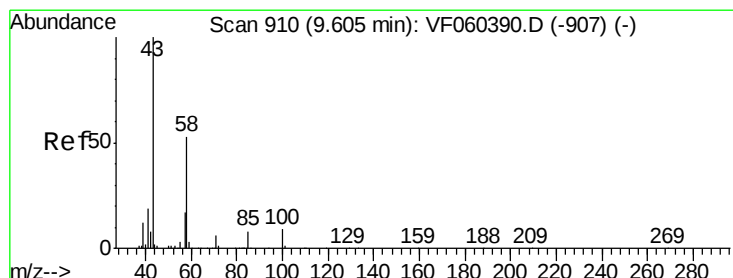
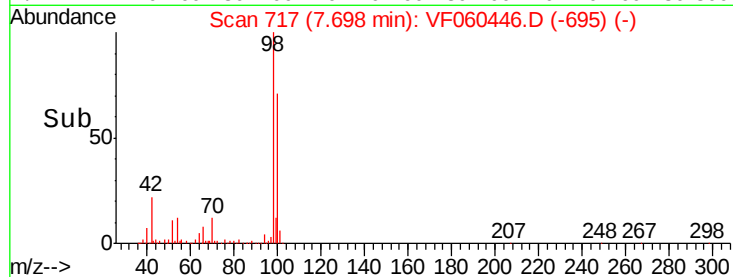
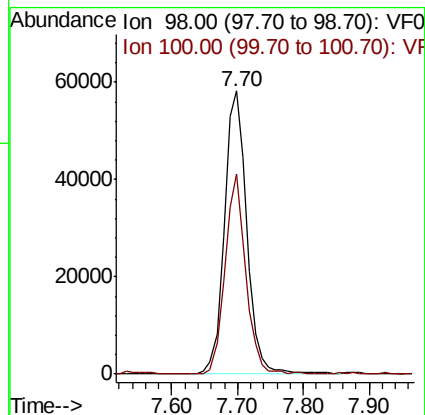
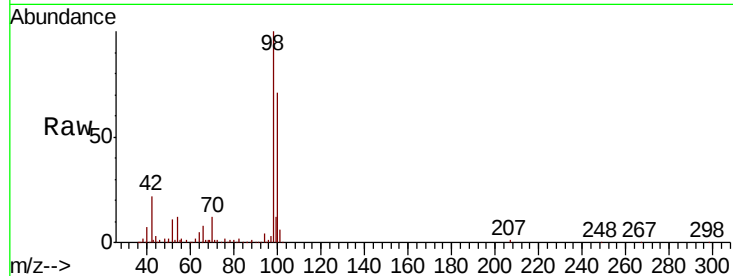
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 98 Resp: 138441

Ion Ratio Lower Upper

98 100

100 70.6 56.5 84.7



#59

2-Hexanone

Concen: 5.568 ug/l

RT: 9.63 min Scan# 913

Delta R.T. 0.03 min

Lab File: VF060446.D

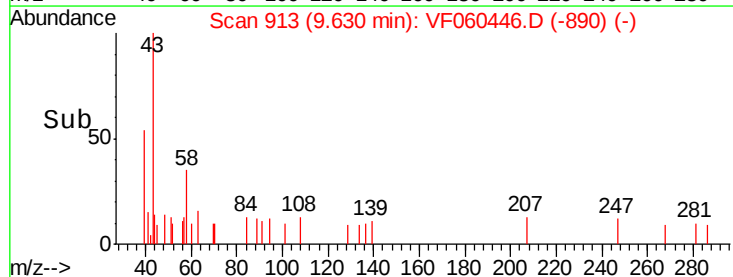
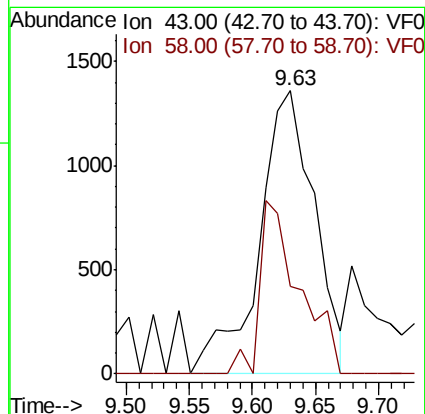
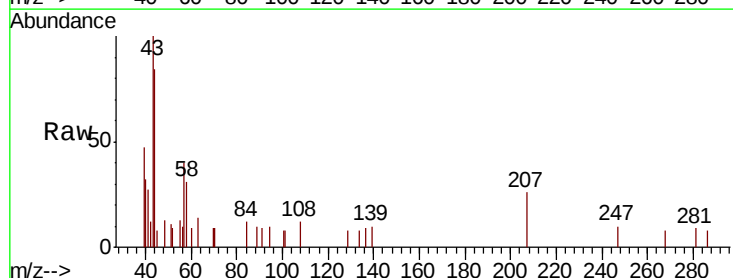
Acq: 4 Oct 2018 20:01

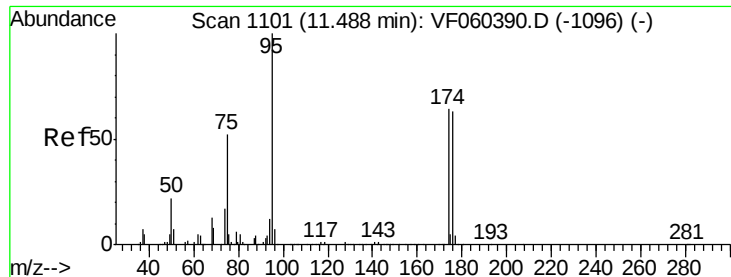
Tgt Ion: 43 Resp: 4175

Ion Ratio Lower Upper

43 100

58 30.8 25.6 76.6

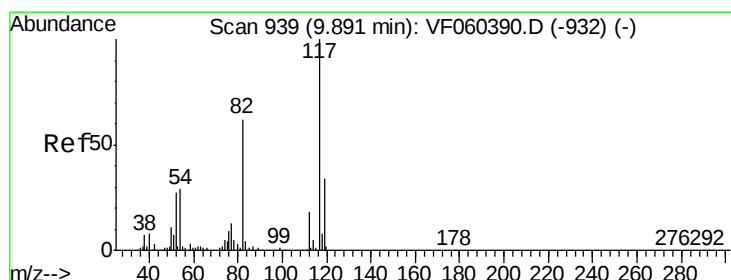
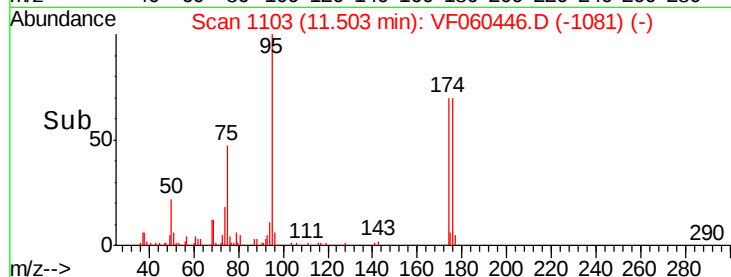
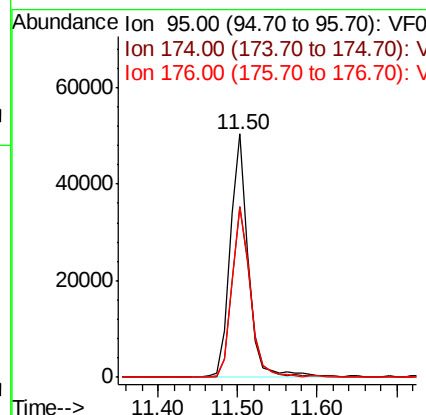
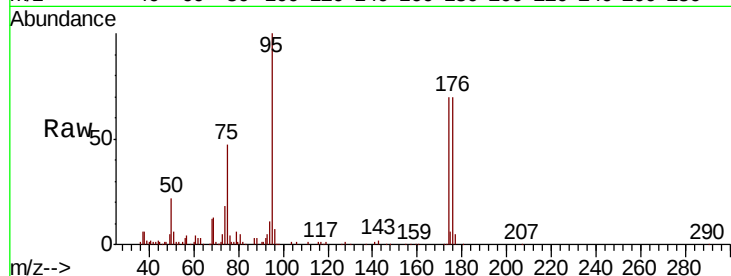




#62
4-Bromofluorobenzene
Concen: 30.625 ug/l
RT: 11.50 min Scan# 1103
Delta R.T. 0.02 min
Lab File: VF060446.D
Acq: 4 Oct 2018 20:01

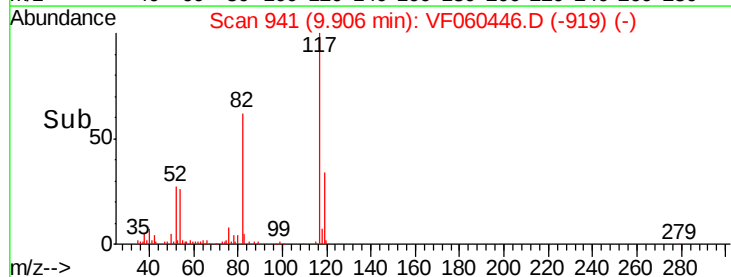
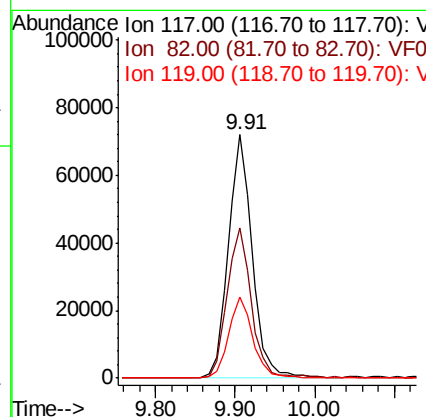
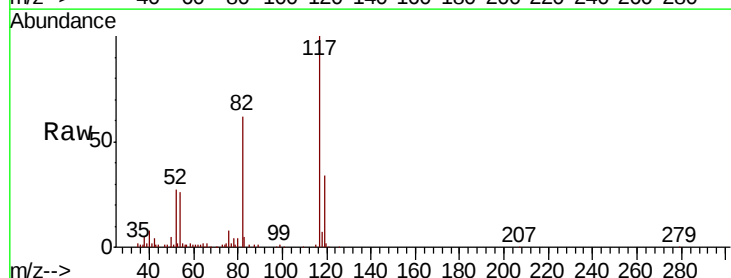
Instrument :
MSVOA_F
ClientSampleId :

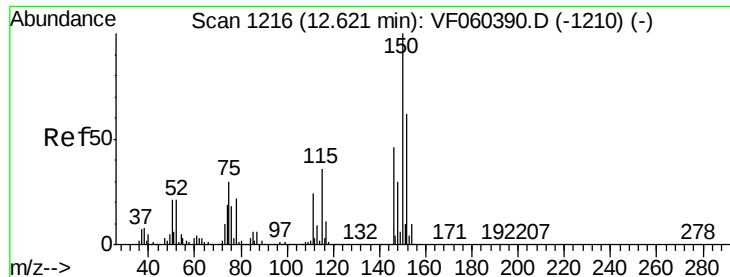
Tot Ion: 95 Resp: 81424
Ion Ratio Lower Upper
95 100
174 69.9 0.0 129.0
176 69.9 0.0 125.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.91 min Scan# 941
Delta R.T. 0.02 min
Lab File: VF060446.D
Acq: 4 Oct 2018 20:01

Tgt Ion: 117 Resp: 152711
Ion Ratio Lower Upper
117 100
82 61.6 49.5 74.3
119 33.5 27.0 40.6



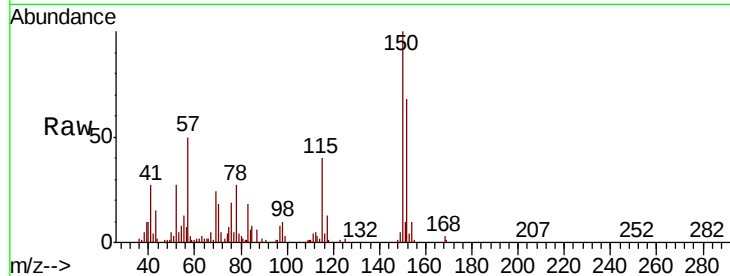


#72

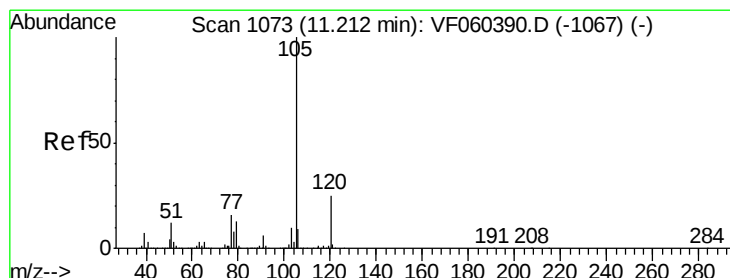
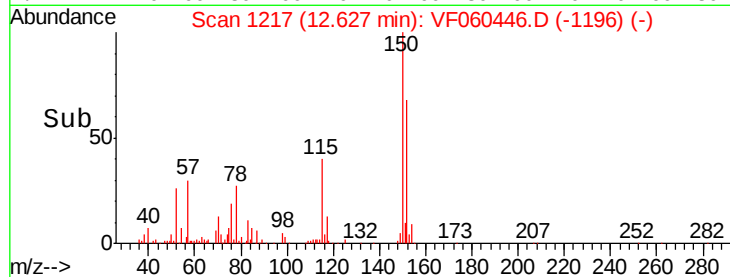
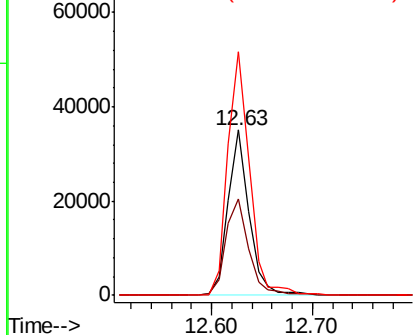
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.63 min Scan# 1217
Delta R.T. 0.01 min
Lab File: VF060446.D
Acq: 4 Oct 2018 20:01

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion	152	Resp	51320
Ion Ratio	100	Lower	Upper
115	58.5	28.6	85.8
150	147.6	0.0	324.6



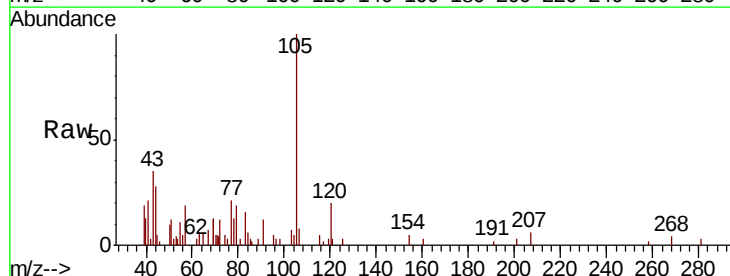
Abundance Ion 152.00 (151.70 to 152.70): V
Ion 115.00 (114.70 to 115.70): V
Ion 150.00 (149.70 to 150.70): V



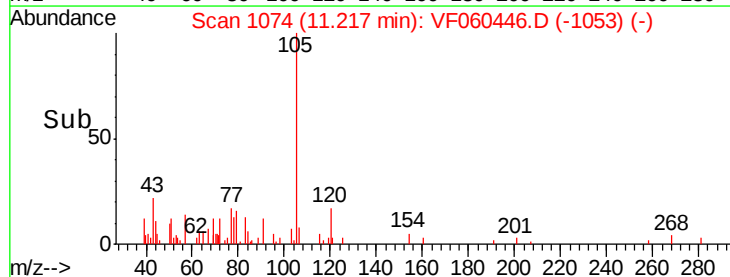
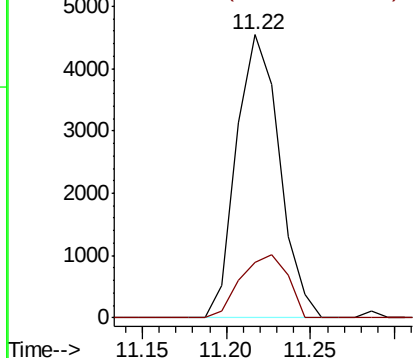
#73

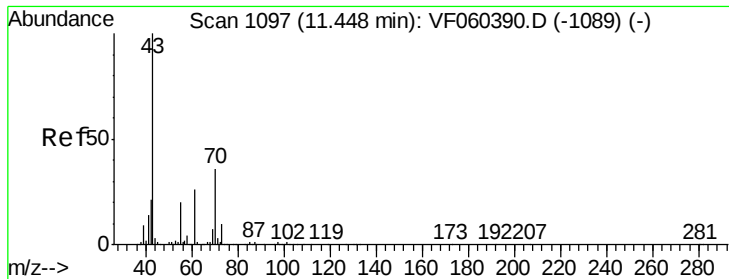
Isopropylbenzene
Concen: 1.991 ug/l
RT: 11.22 min Scan# 1074
Delta R.T. 0.01 min
Lab File: VF060446.D
Acq: 4 Oct 2018 20:01

Tgt Ion	105	Resp	8045
Ion Ratio	100	Lower	Upper
120	19.8	12.3	36.9



Abundance Ion 105.00 (104.70 to 105.70): V
Ion 120.00 (119.70 to 120.70): V





#74

N-amvl acetate

Concen: 3.411 ug/l

RT: 11.47 min Scan# 1100

Delta R.T. 0.03 min

Lab File: VF060446.D

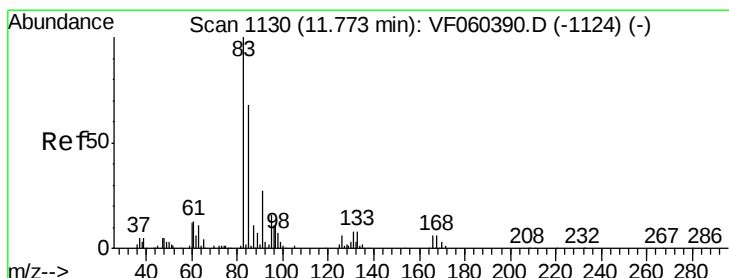
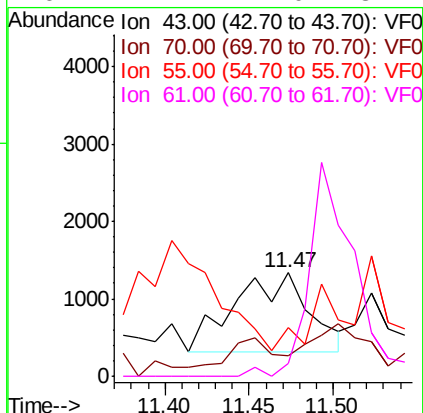
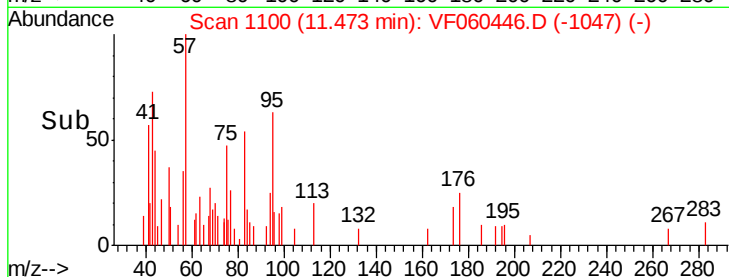
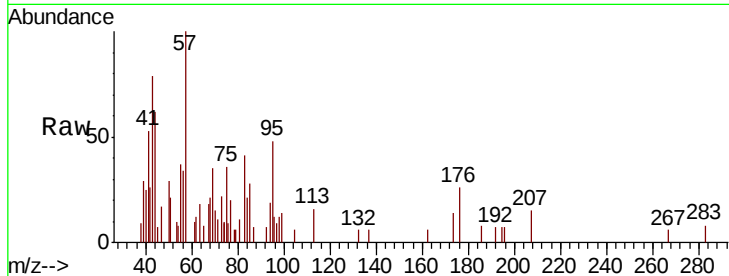
Acq: 4 Oct 2018 20:01

Instrument :

MSVOA_F

ClientSampleId :

Tot Ion:	43	Resp:	3163
Ion	Ratio	Lower	Upper
43	100		
70	19.5	29.1	43.7#
55	46.8	16.3	24.5#
61	12.1	21.0	31.4#



#75

1,1,2,2-Tetrachloroethane

Concen: 2.289 ug/l

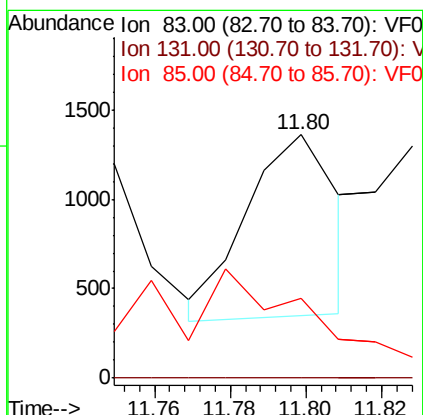
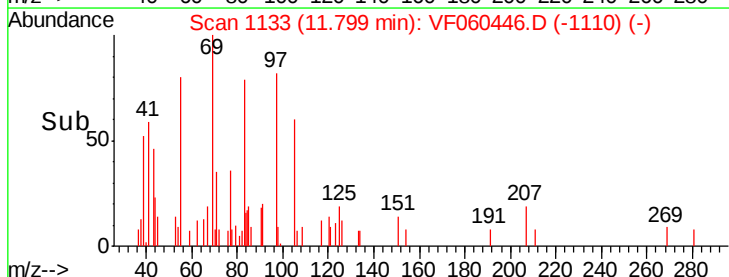
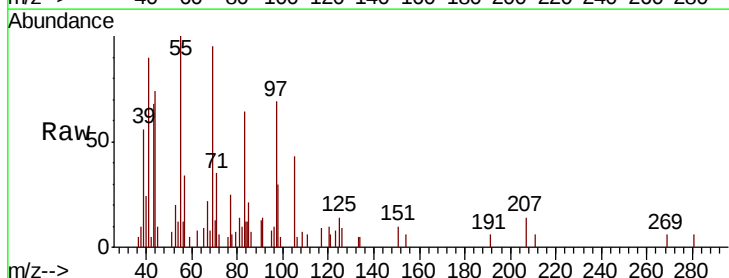
RT: 11.80 min Scan# 1133

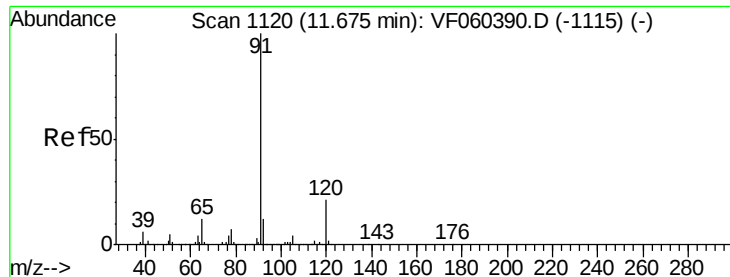
Delta R.T. 0.03 min

Lab File: VF060446.D

Acq: 4 Oct 2018 20:01

Tgt Ion:	83	Resp:	1686
Ion	Ratio	Lower	Upper
83	100		
131	0.0	4.0	12.0#
85	32.8	34.0	102.0#

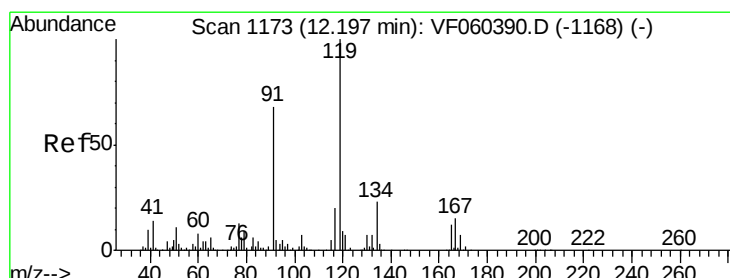
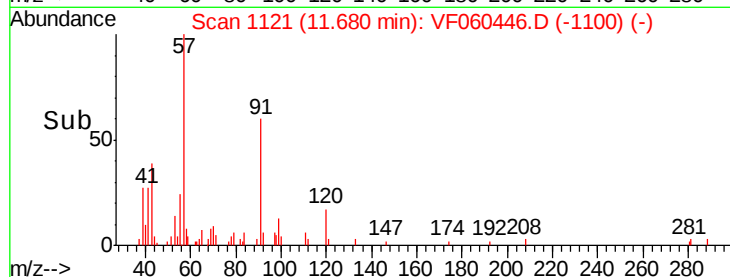
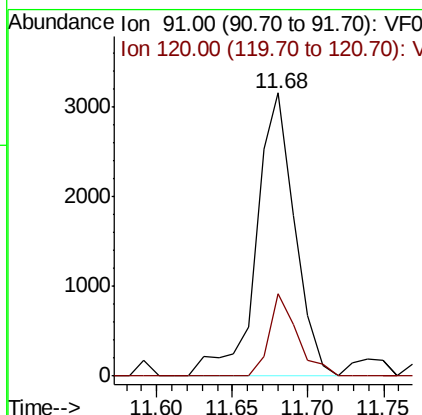
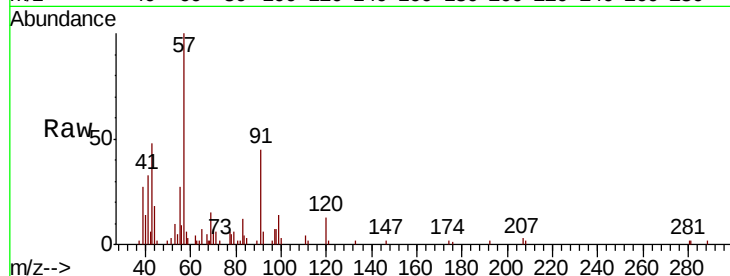




#78
n-propylbenzene
Concen: 1.146 ug/l
RT: 11.68 min Scan# 1121
Delta R.T. 0.01 min
Lab File: VF060446.D
Acq: 4 Oct 2018 20:01

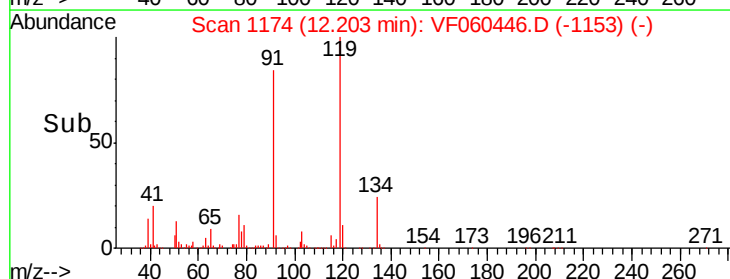
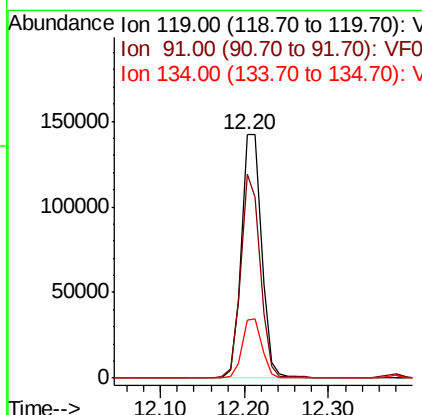
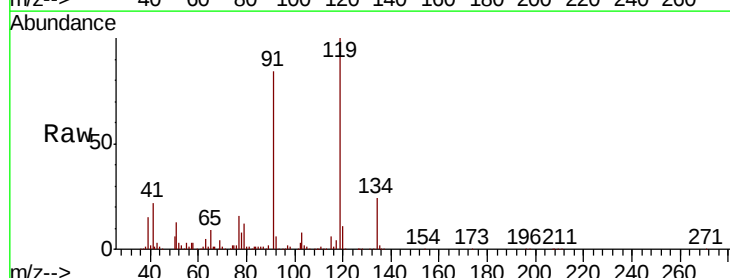
Instrument :
MSVOA_F
ClientSampleId :

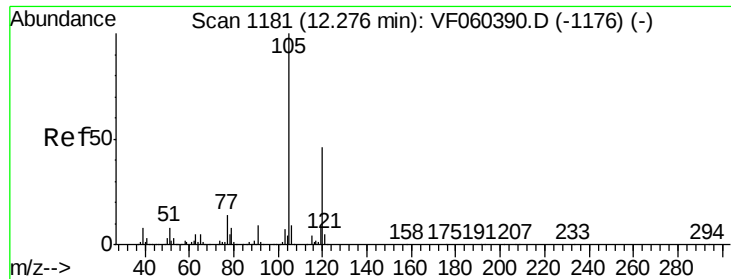
Tot Ion: 91 Resp: 5612
Ion Ratio Lower Upper
91 100
120 28.9 10.5 31.6



#83
tert-Butylbenzene
Concen: 70.544 ug/l
RT: 12.20 min Scan# 1174
Delta R.T. 0.01 min
Lab File: VF060446.D
Acq: 4 Oct 2018 20:01

Tgt Ion: 119 Resp: 238874
Ion Ratio Lower Upper
119 100
91 83.9 34.0 102.0
134 23.9 11.7 35.0

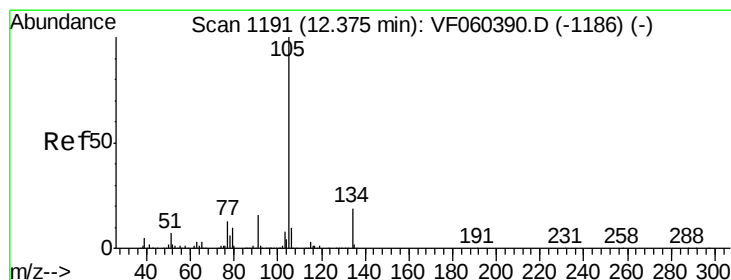
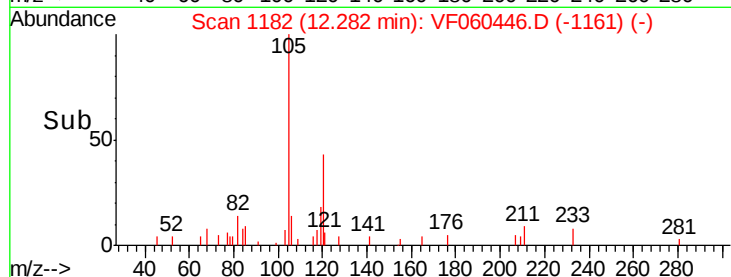
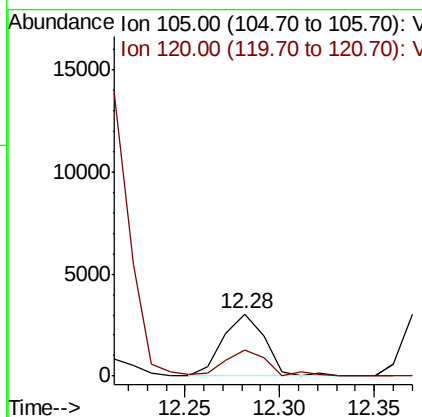
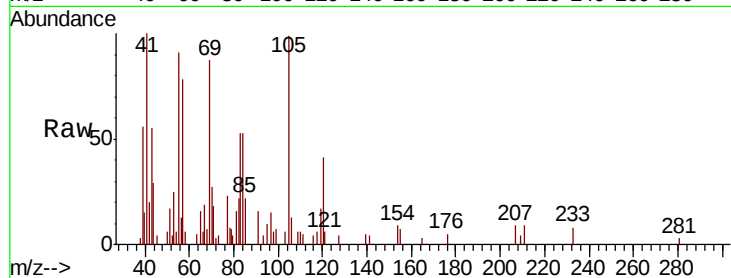




#84
 1,2,4-Trimethylbenzene
 Concen: 1.372 ug/l
 RT: 12.28 min Scan# 1182
 Delta R.T. 0.01 min
 Lab File: VF060446.D
 Acq: 4 Oct 2018 20:01

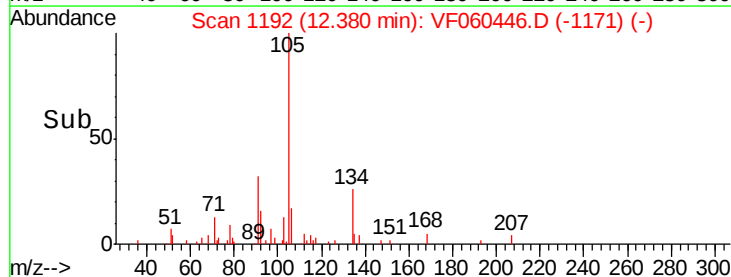
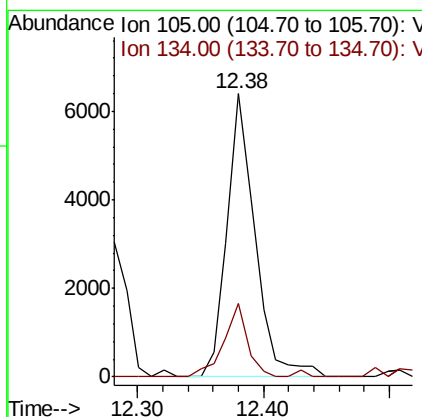
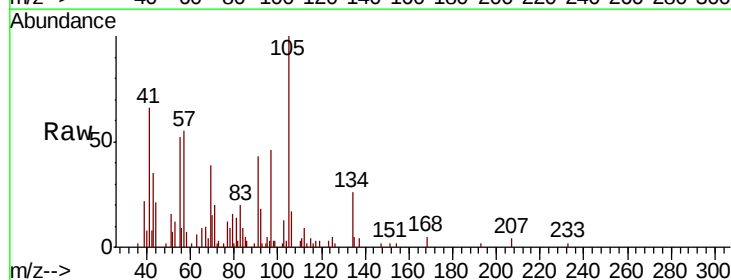
Instrument :
 MSVOA_F
 ClientSampleId :

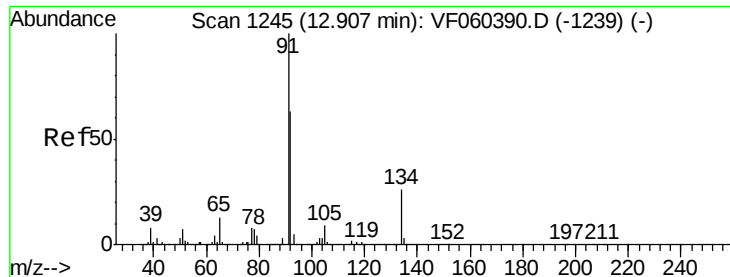
Tot Ion:105 Resp: 4670
 Ion Ratio Lower Upper
 105 100
 120 41.2 23.1 69.2



#85
 sec-Butylbenzene
 Concen: 2.110 ug/l
 RT: 12.38 min Scan# 1192
 Delta R.T. 0.01 min
 Lab File: VF060446.D
 Acq: 4 Oct 2018 20:01

Tgt Ion:105 Resp: 9864
 Ion Ratio Lower Upper
 105 100
 134 25.9 9.4 28.3

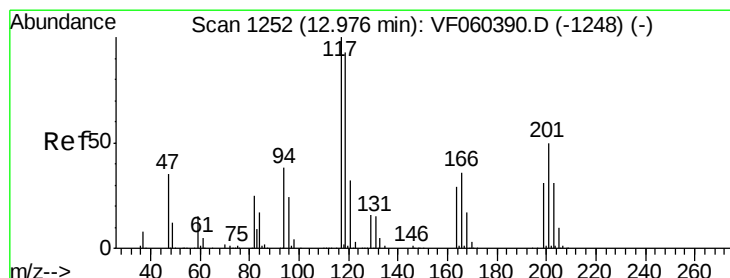
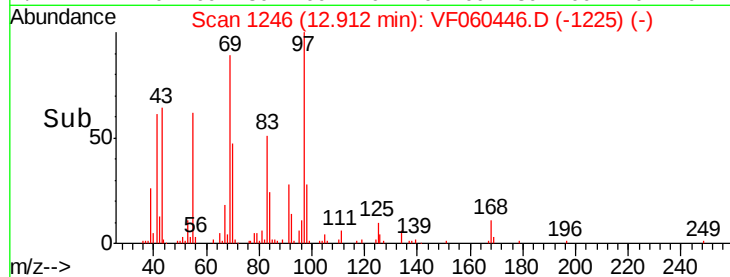
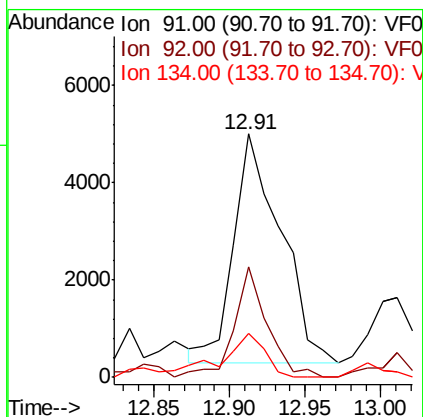
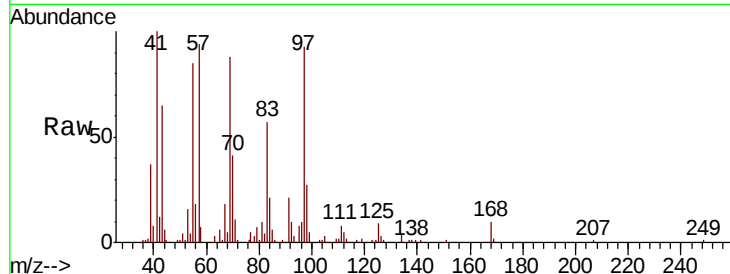




#89
n-Butylbenzene
Concen: 2.506 ug/l
RT: 12.91 min Scan# 1246
Delta R.T. 0.01 min
Lab File: VF060446.D
Acq: 4 Oct 2018 20:01

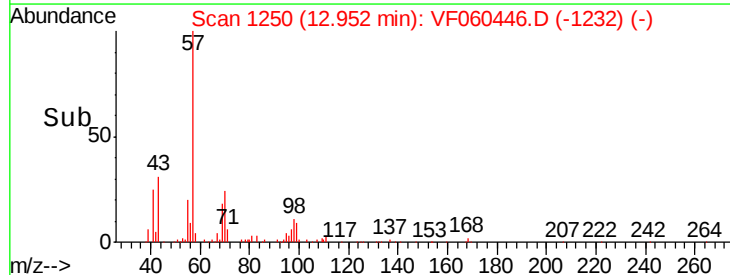
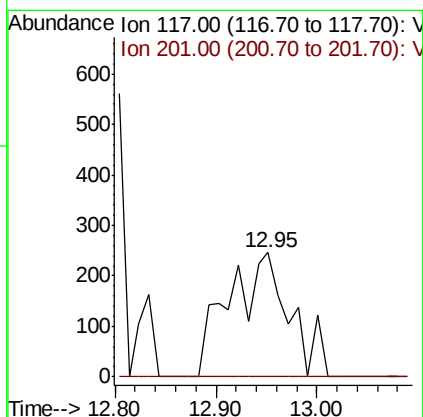
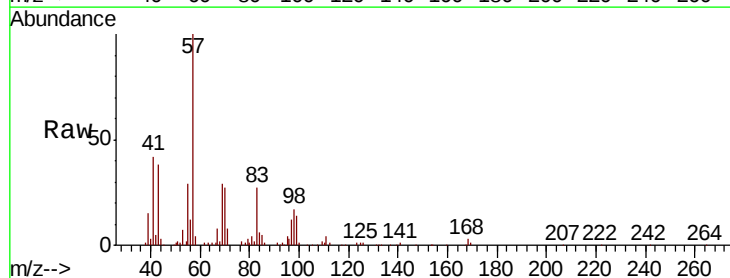
Instrument :
MSVOA_F
ClientSampleId :

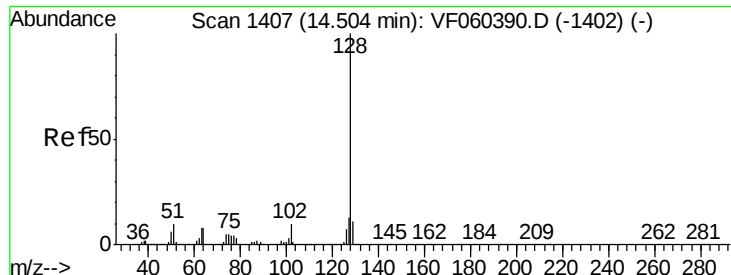
Tot Ion: 91 Resp: 10125
Ion Ratio Lower Upper
91 100
92 45.6 31.3 93.9
134 18.2 13.0 38.9



#90
Hexachloroethane
Concen: 1.050 ug/l
RT: 12.95 min Scan# 1250
Delta R.T. -0.02 min
Lab File: VF060446.D
Acq: 4 Oct 2018 20:01

Tgt Ion: 117 Resp: 1036
Ion Ratio Lower Upper
117 100
201 0.0 25.5 76.5#





#95

Naphthalene

Concen: 1.597 ug/l

RT: 14.52 min Scan# 1409

Delta R.T. 0.02 min

Lab File: VF060446.D

Acq: 4 Oct 2018 20:01

Instrument :

MSVOA_F

ClientSampleId :

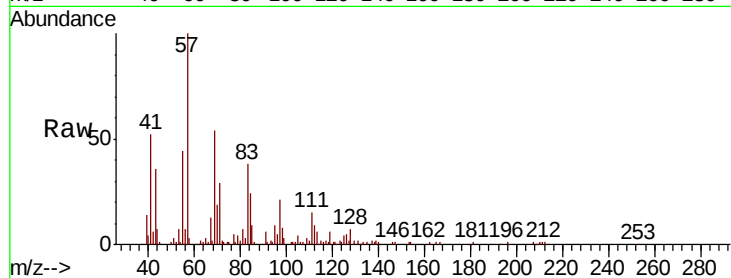
Tot Ion:128 Resp: 3476

Ion Ratio Lower Upper

128 100

127 23.8 10.0 15.0#

129 25.9 8.7 13.1#



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

