

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF060719\
 Data File : VF062900.D
 Acq On : 7 Jun 2019 15:18
 Operator : FY/SY
 Sample : K3160-05RE
 Misc : 6.13g/5mL/MSVOA F/SOIL
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :

Quant Time: Jun 08 00:40:08 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F053019S.M
 Quant Title : SW846 8260
 QLast Update : Fri May 31 04:18:30 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.07	168	653279	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.78	114	1189079	50.00	ug/l	-0.03
63) Chlorobenzene-d5	9.92	117	717104	50.00	ug/l	-0.02
72) 1,4-Dichlorobenzene-d4	12.62	152	224300	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.04	65	197368	43.69	ug/l	-0.02
Spiked Amount			Recovery	=	87.38%	
35) Dibromofluoromethane	4.32	113	372877	41.50	ug/l	-0.02
Spiked Amount			Recovery	=	83.00%	
50) Toluene-d8	7.72	98	664544	29.25	ug/l	-0.02
Spiked Amount			Recovery	=	58.50%	
62) 4-Bromofluorobenzene	11.49	95	196368	24.03	ug/l	-0.02
Spiked Amount			Recovery	=	48.06%	

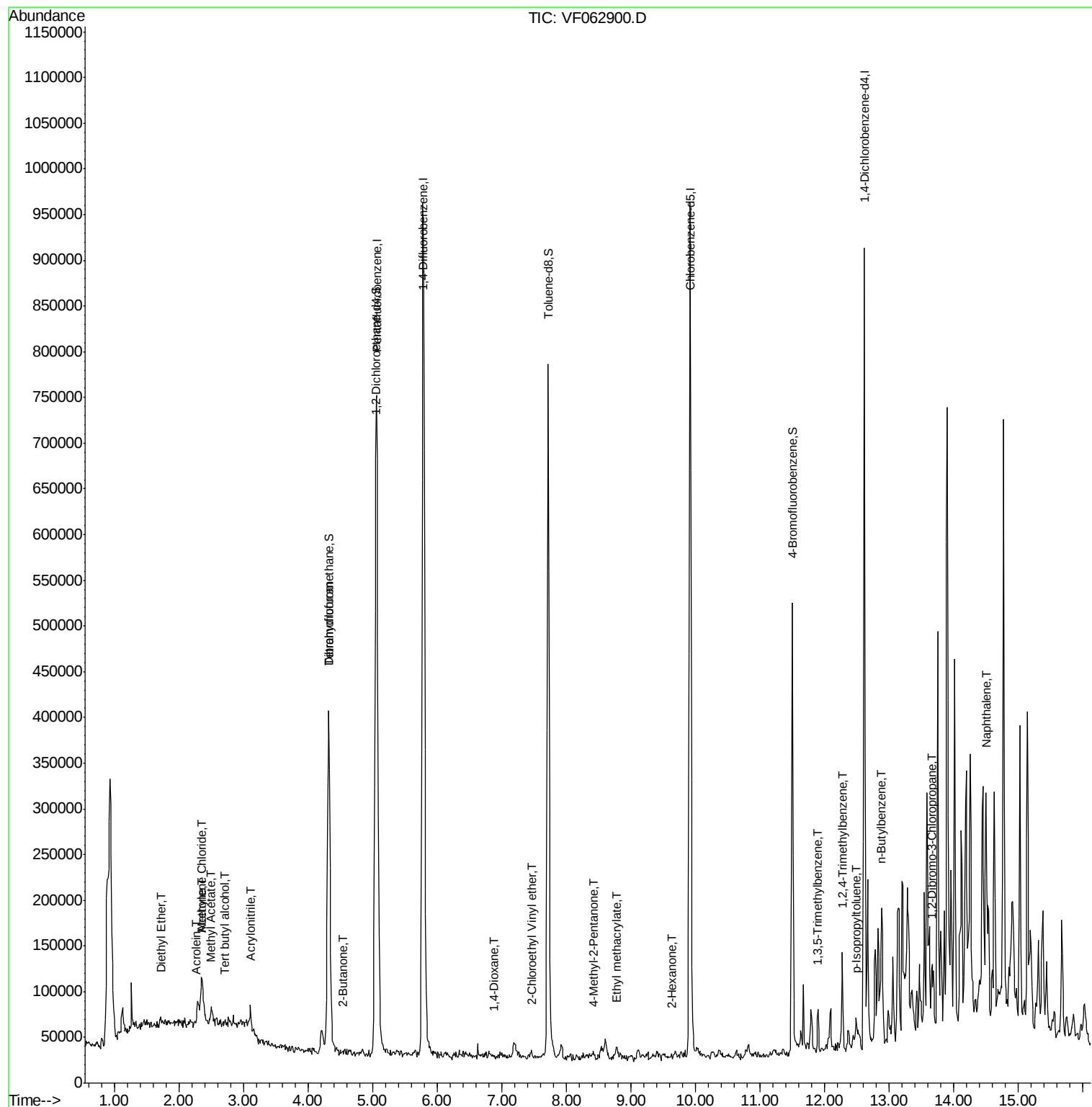
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.05	85	1124	Below Cal		98
8) Diethyl Ether	1.71	74	3065	1.638	ug/l #	14
11) Tert butyl alcohol	2.70	59	1821	6.654	ug/l #	1
13) Acrolein	2.26	56	1074	1.697	ug/l	85
15) Acrylonitrile	3.10	53	1677	1.631	ug/l #	79
16) Acetone	2.35	43	38082	36.832	ug/l	92
18) Methyl Acetate	2.50	43	13076	7.237	ug/l #	67
20) Methylene Chloride	2.36	84	31282	3.250	ug/l	93
25) 2-Butanone	4.53	43	6435	2.673	ug/l	97
29) Tetrahydrofuran	4.31	42	2036	2.211	ug/l #	52
49) 1,4-Dioxane	6.88	88	475	12.650	ug/l #	19
51) 4-Methyl-2-Pentanone	8.41	43	7412	1.878	ug/l #	66
56) Ethyl methacrylate	8.77	69	7083	1.288	ug/l #	91
58) 2-Chloroethyl Vinyl ether	7.46	63	3506	1.824	ug/l	95
59) 2-Hexanone	9.63	43	3408	1.212	ug/l	79
80) 1,3,5-Trimethylbenzene	11.90	105	20836	1.628	ug/l	83
84) 1,2,4-Trimethylbenzene	12.27	105	43858	3.614	ug/l	93
86) p-Isopropyltoluene	12.49	119	21615	1.554	ug/l	89
89) n-Butylbenzene	12.89	91	37112	2.652	ug/l	64
92) 1,2-Dibromo-3-Chloropropan	13.66	75	994	2.730	ug/l #	1
95) Naphthalene	14.50	128	29426	4.291	ug/l #	40

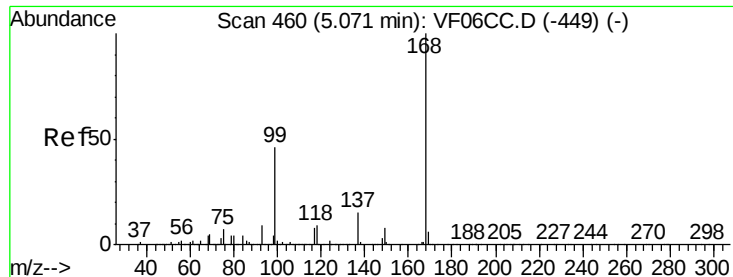
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF060719\
Data File : VF062900.D
Acq On : 7 Jun 2019 15:18
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Quant Title : SW846 8260
QLast Update : Fri May 31 04:18:30 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.07 min Scan# 460

Delta R.T. -0.01 min

Lab File: VF062900.D

Acq: 7 Jun 2019 15:18

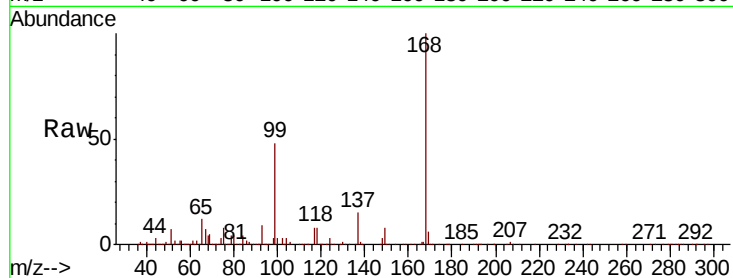
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:168 Resp: 653279

Ion Ratio Lower Upper

168 100

99 48.1 39.1 58.7



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

5.07

200000

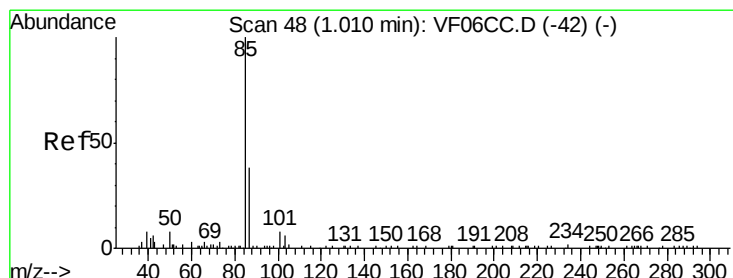
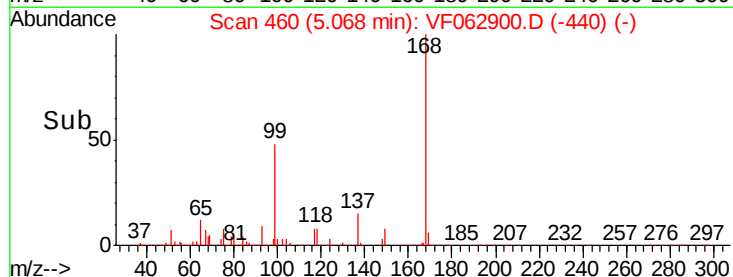
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.05 min Scan# 52

Delta R.T. 0.03 min

Lab File: VF062900.D

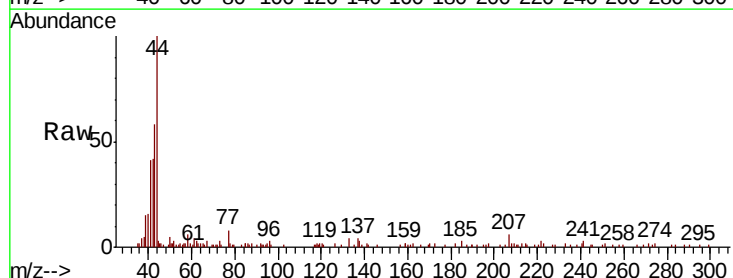
Acq: 7 Jun 2019 15:18

Tgt Ion: 85 Resp: 1124

Ion Ratio Lower Upper

85 100

87 36.3 17.6 52.9



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

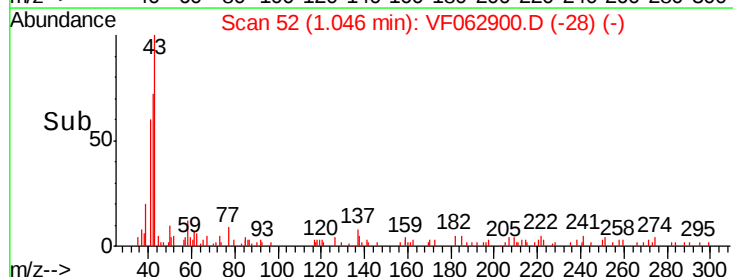
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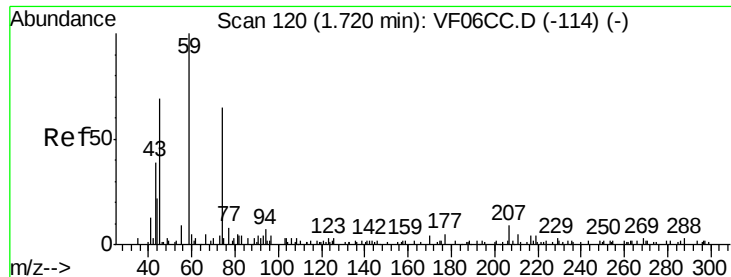
400

200

0

Time-->





#8

Diethyl Ether

Concen: 1.638 ug/l

RT: 1.71 min Scan# 119

Delta R.T. -0.02 min

Lab File: VF062900.D

Acq: 7 Jun 2019 15:18

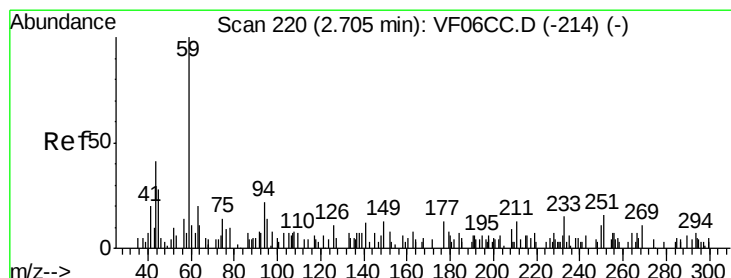
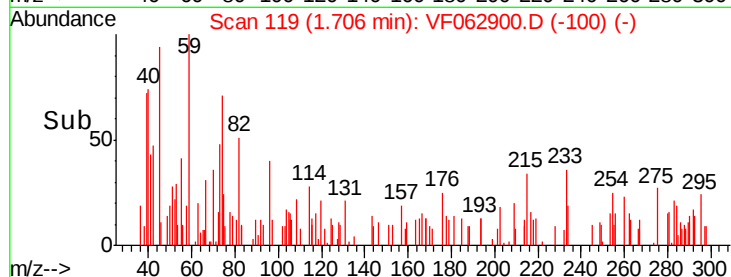
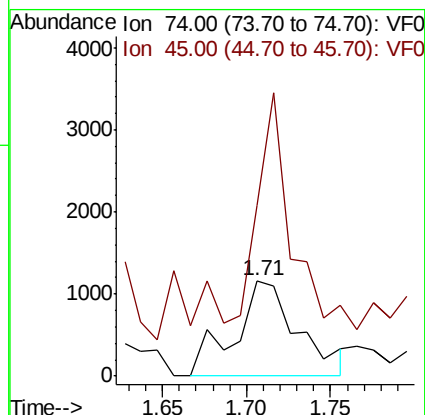
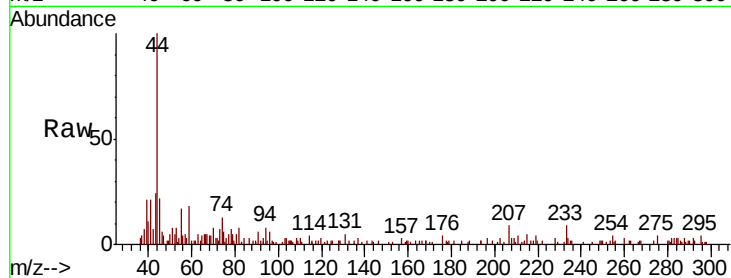
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 74 Resp: 3065

Ion Ratio Lower Upper

74 100

45 178.7 47.5 142.5#



#11

Tert butyl alcohol

Concen: 6.654 ug/l

RT: 2.70 min Scan# 220

Delta R.T. -0.02 min

Lab File: VF062900.D

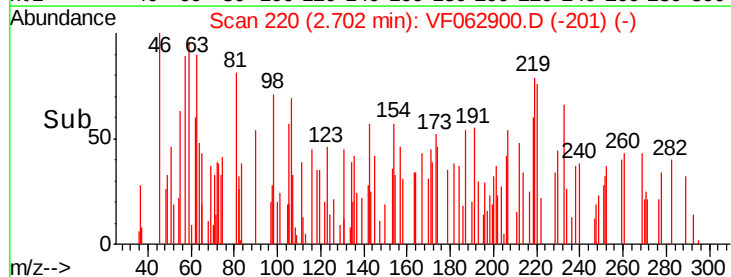
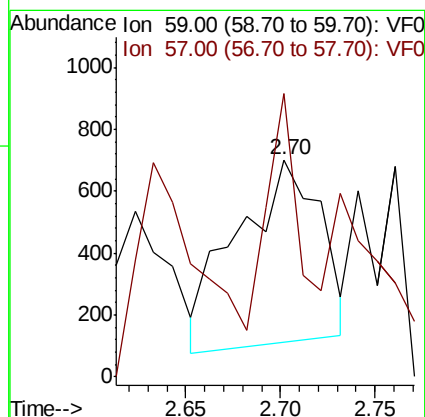
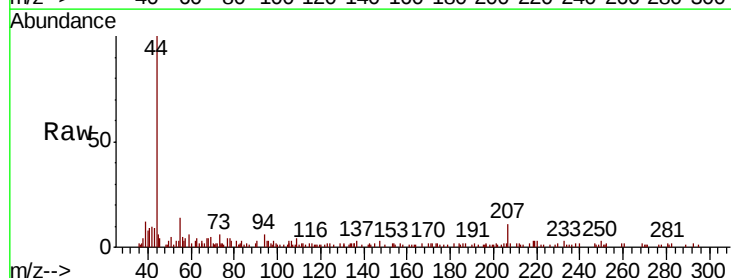
Acq: 7 Jun 2019 15:18

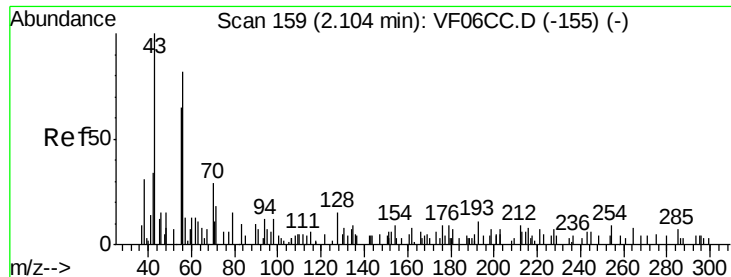
Tgt Ion: 59 Resp: 1821

Ion Ratio Lower Upper

59 100

57 130.4 9.2 13.8#

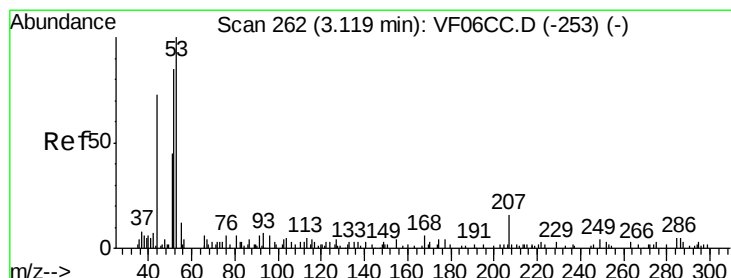
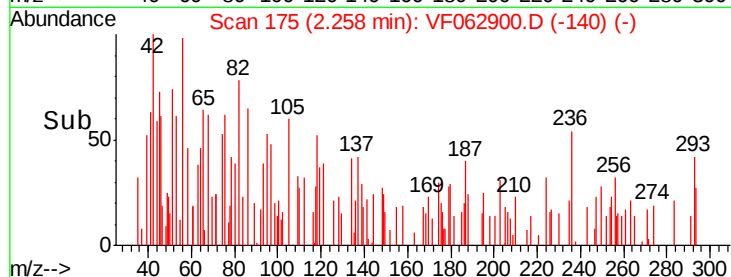
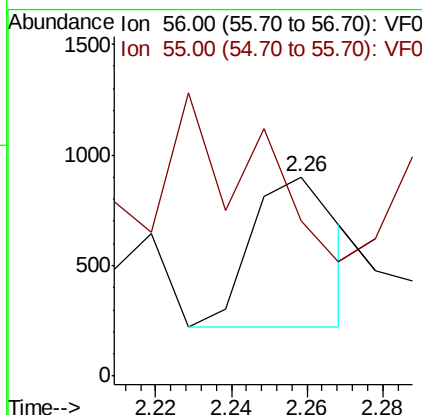
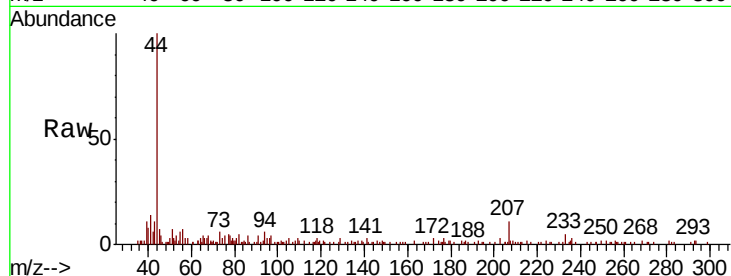




#13
Acrolein
Concen: 1.697 ug/l
RT: 2.26 min Scan# 175
Delta R.T. 0.14 min
Lab File: VF062900.D
Acq: 7 Jun 2019 15:18

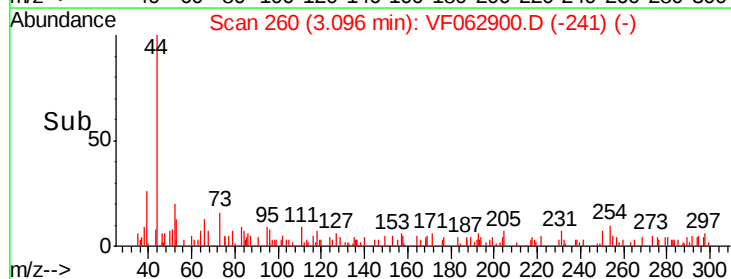
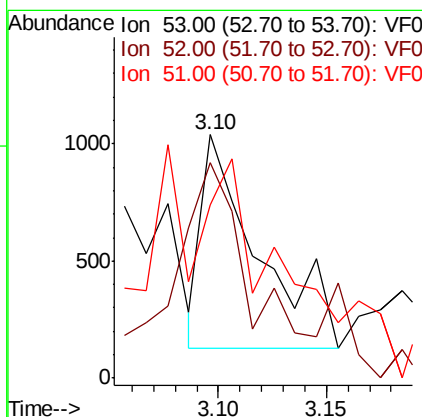
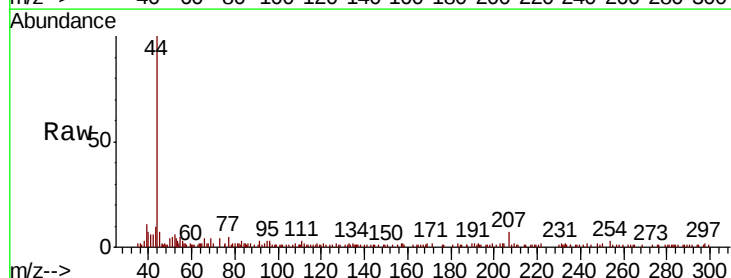
Instrument :
MSVOA_F
ClientSampleId :

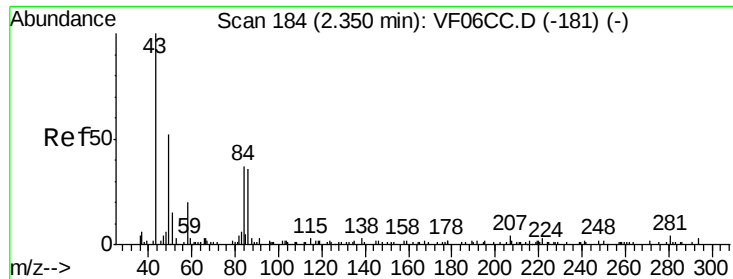
Tot Ion: 56 Resp: 1074
Ion Ratio Lower Upper
56 100
55 78.2 52.9 79.3



#15
Acrylonitrile
Concen: 1.631 ug/l
RT: 3.10 min Scan# 260
Delta R.T. -0.02 min
Lab File: VF062900.D
Acq: 7 Jun 2019 15:18

Tgt Ion: 53 Resp: 1677
Ion Ratio Lower Upper
53 100
52 88.5 68.1 102.1
51 71.4 27.7 41.5#

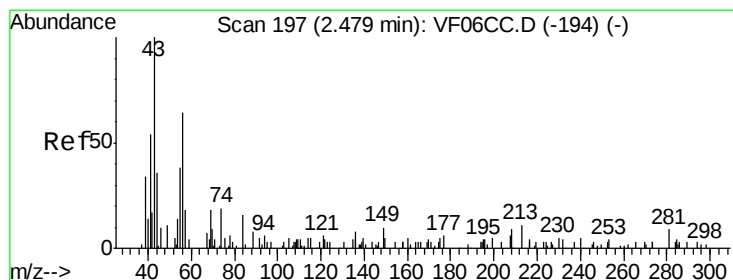
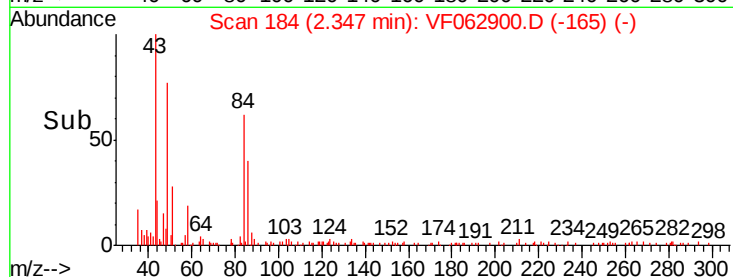
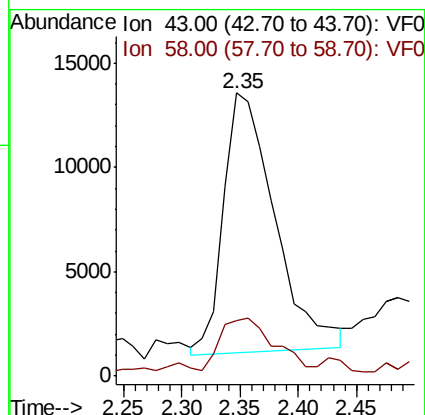
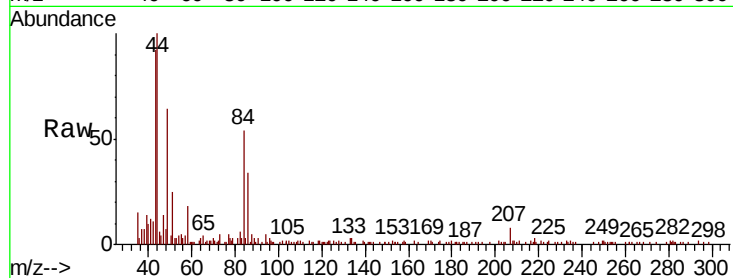




#16
Acetone
Concen: 36.832 ug/l
RT: 2.35 min Scan# 184
Delta R.T. -0.02 min
Lab File: VF062900.D
Acq: 7 Jun 2019 15:18

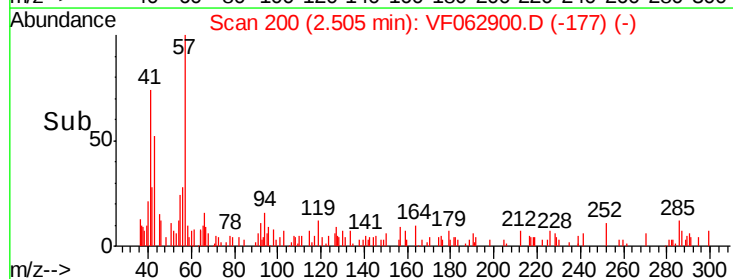
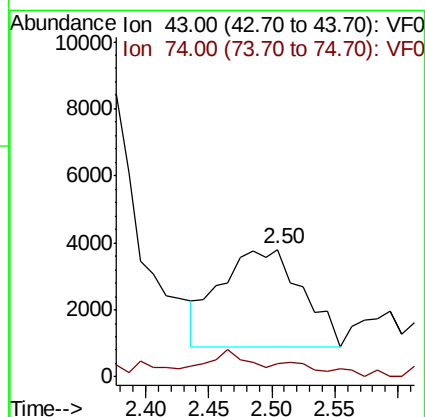
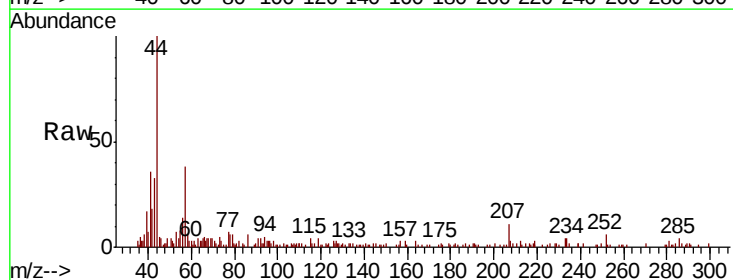
Instrument :
MSVOA_F
ClientSampleId :

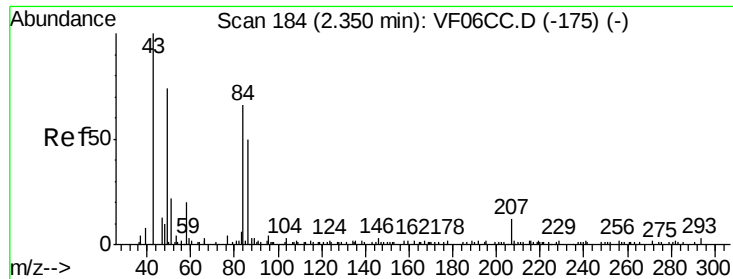
Tot Ion: 43 Resp: 38082
Ion Ratio Lower Upper
43 100
58 19.6 19.0 28.4



#18
Methyl Acetate
Concen: 7.237 ug/l
RT: 2.50 min Scan# 200
Delta R.T. 0.02 min
Lab File: VF062900.D
Acq: 7 Jun 2019 15:18

Tgt Ion: 43 Resp: 13076
Ion Ratio Lower Upper
43 100
74 10.1 22.1 33.1#

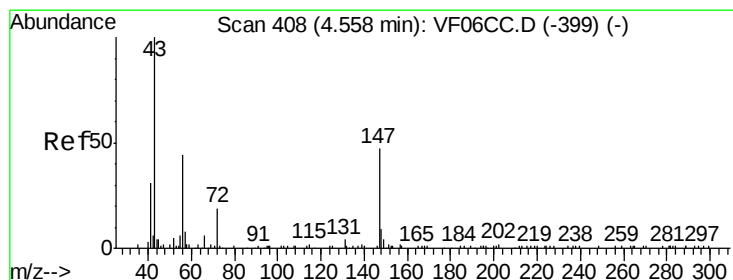
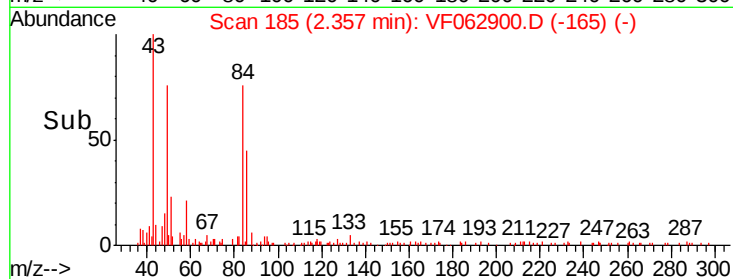
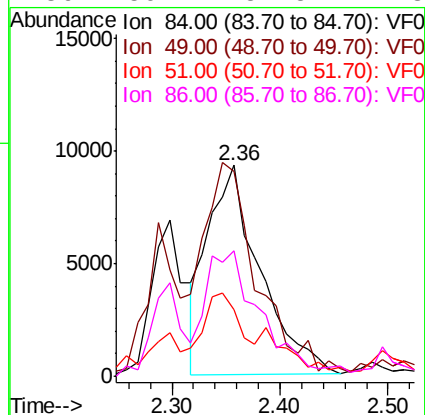
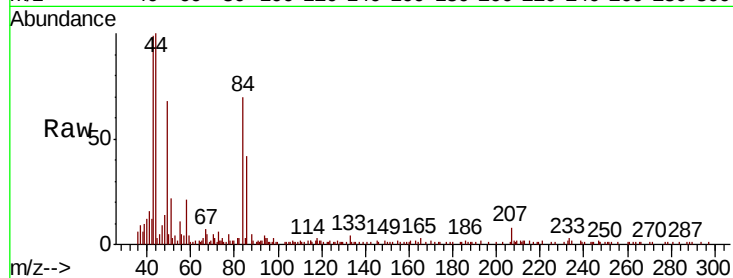




#20
Methvlene Chloride
Concen: 3.250 ug/l
RT: 2.36 min Scan# 185
Delta R.T. -0.01 min
Lab File: VF062900.D
Acq: 7 Jun 2019 15:18

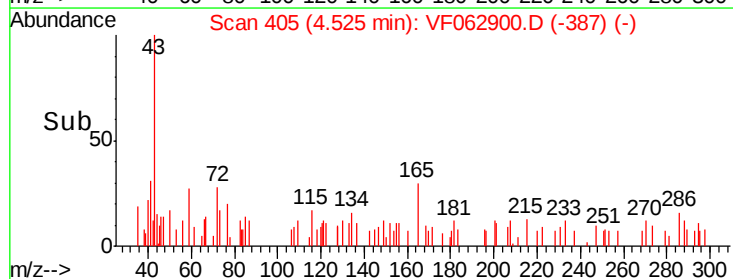
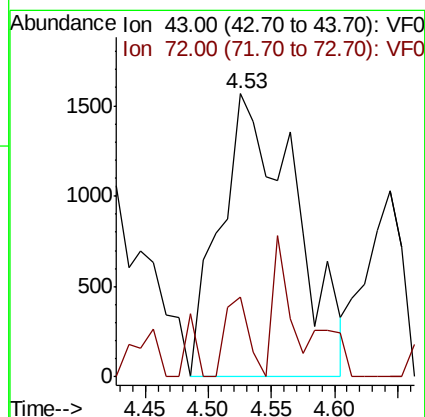
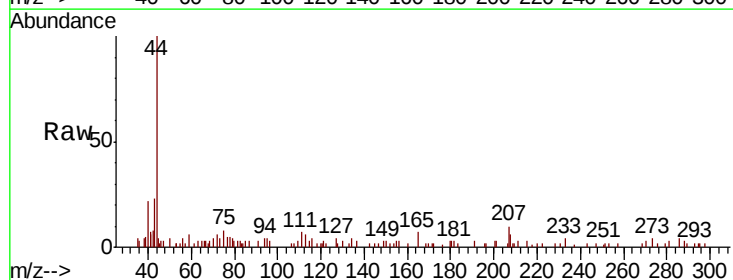
Instrument :
MSVOA_F
ClientSampled :

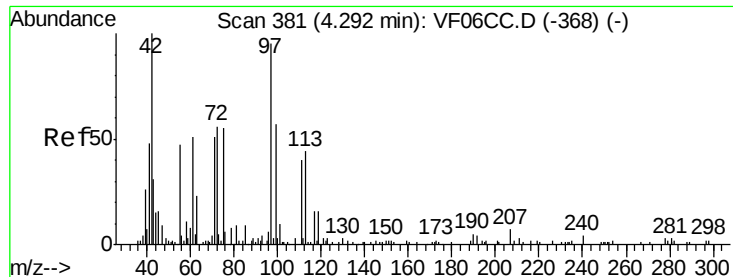
Tot Ion:	84	Resp:	31282
Ion	Ratio	Lower	Upper
84	100		
49	97.3	82.6	123.8
51	36.2	25.0	37.4
86	59.4	51.5	77.3



#25
2-Butanone
Concen: 2.673 ug/l
RT: 4.53 min Scan# 405
Delta R.T. -0.03 min
Lab File: VF062900.D
Acq: 7 Jun 2019 15:18

Tgt Ion:	43	Resp:	6435
Ion	Ratio	Lower	Upper
43	100		
72	28.4	21.4	32.0

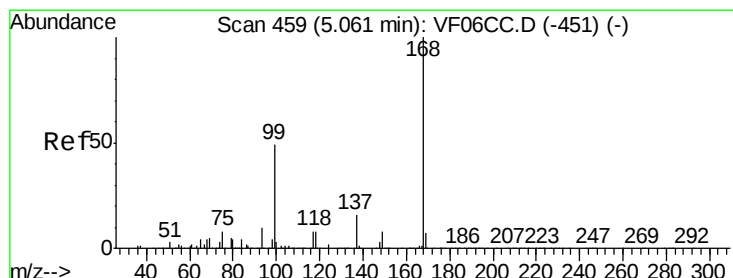
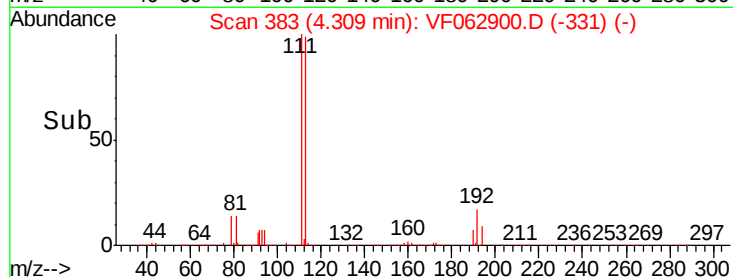
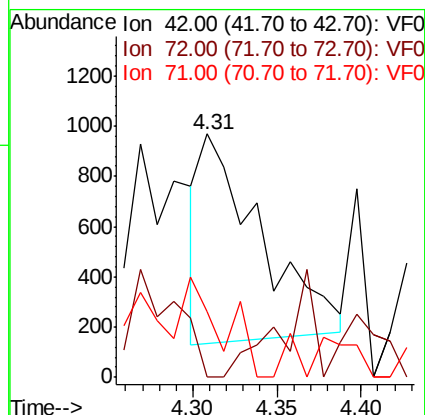
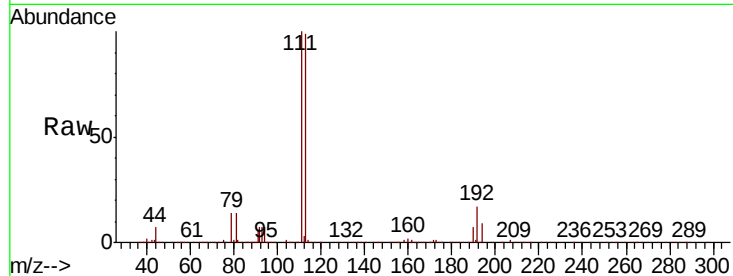




#29
Tetrahydrofuran
Concen: 2.211 ug/l
RT: 4.31 min Scan# 383
Delta R.T. 0.01 min
Lab File: VF062900.D
Acq: 7 Jun 2019 15:18

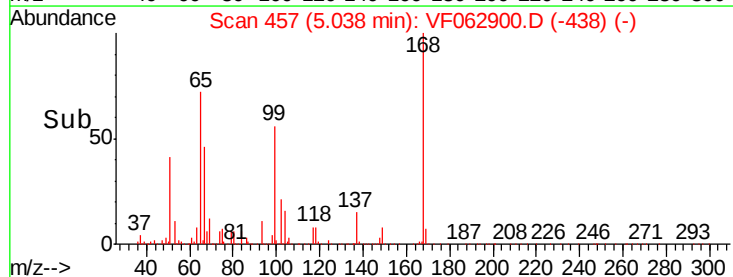
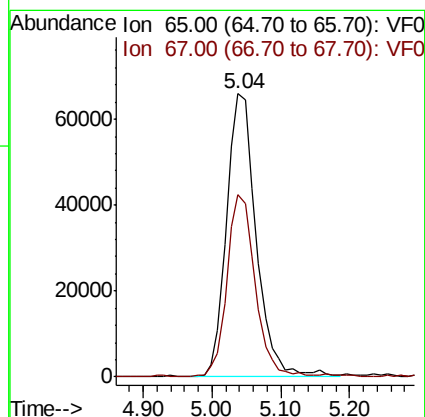
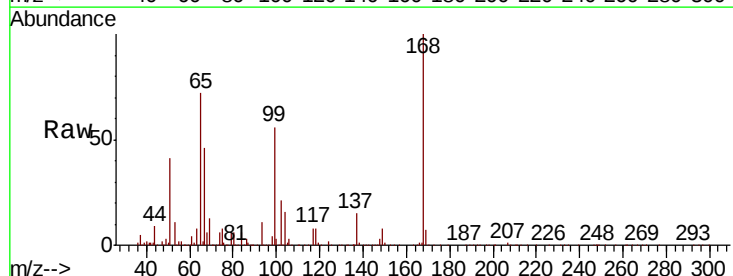
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MSVOA_F
ClientSampleId :

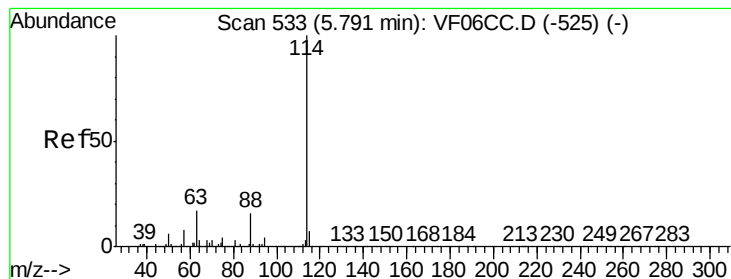
Tot Ion: 42 Resp: 2036
Ion Ratio Lower Upper
42 100
72 0.0 39.0 58.6#
71 30.8 36.9 55.3#



#33
1,2-Dichloroethane-d4
Concen: 43.690 ug/l
RT: 5.04 min Scan# 457
Delta R.T. -0.02 min
Lab File: VF062900.D
Acq: 7 Jun 2019 15:18

Tgt Ion: 65 Resp: 197368
Ion Ratio Lower Upper
65 100
67 64.4 0.0 121.2





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.78 min Scan# 532

Delta R.T. -0.03 min

Lab File: VF062900.D

Acq: 7 Jun 2019 15:18

Instrument :

MSVOA_F

ClientSampled :

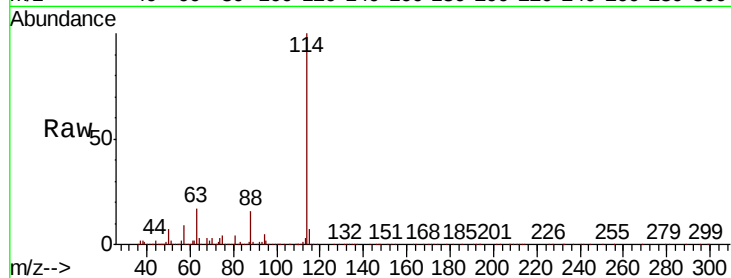
Tot Ion:114 Resp: 1189079

Ion Ratio Lower Upper

114 100

63 16.9 0.0 34.2

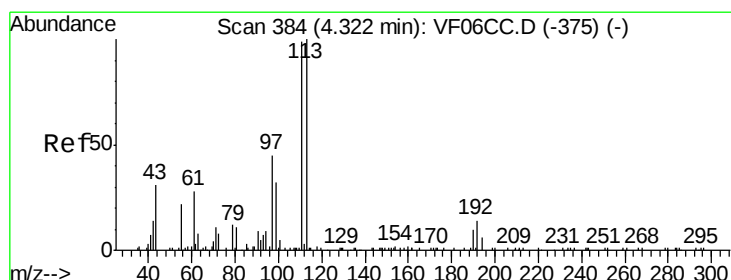
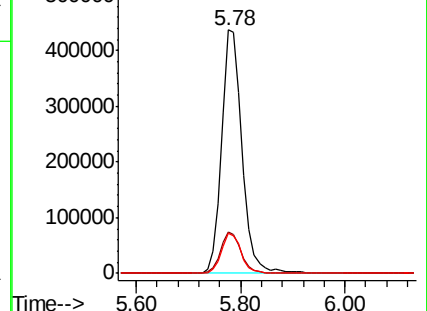
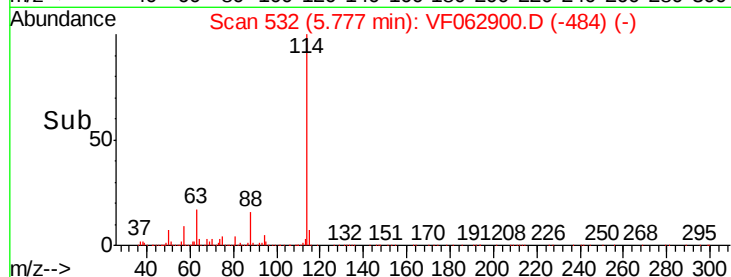
88 16.4 0.0 31.2



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: 41.499 ug/l

RT: 4.32 min Scan# 384

Delta R.T. -0.02 min

Lab File: VF062900.D

Acq: 7 Jun 2019 15:18

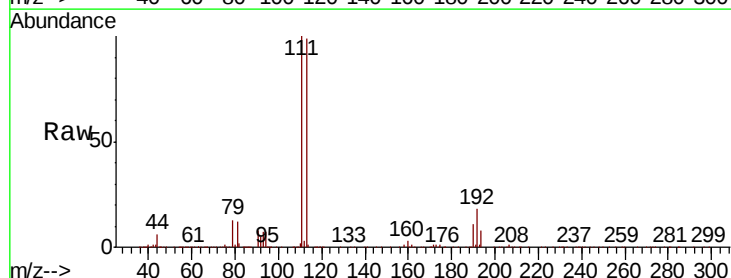
Tgt Ion:113 Resp: 372877

Ion Ratio Lower Upper

113 100

111 100.6 81.9 122.9

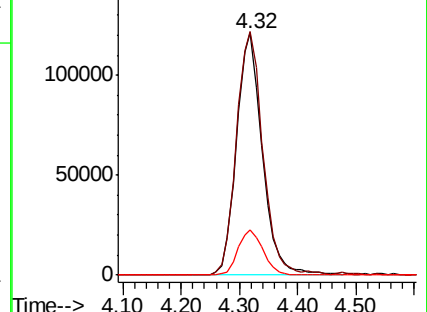
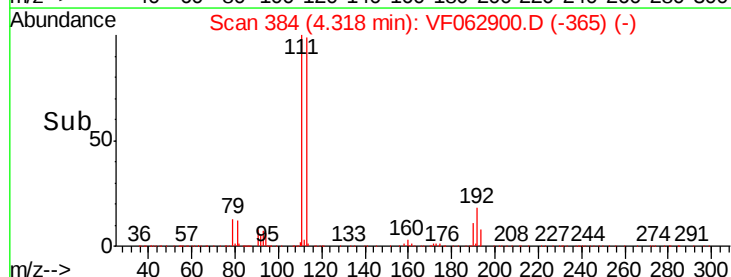
192 18.6 15.1 22.7

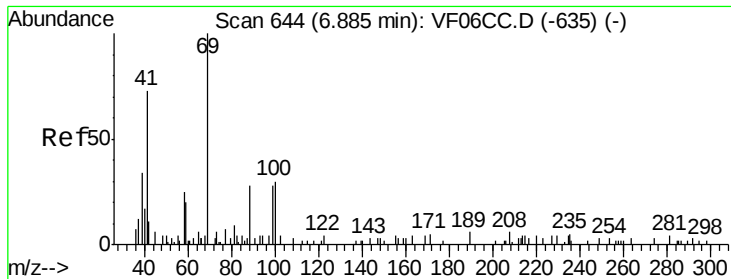


Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V





#49

1,4-Dioxane

Concen: 12.650 ug/l

RT: 6.88 min Scan# 644

Delta R.T. -0.01 min

Lab File: VF062900.D

Acq: 7 Jun 2019 15:18

Instrument :
MSVOA_F
ClientSampled :

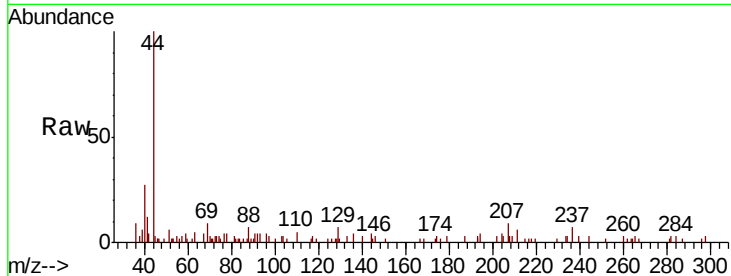
Tot Ion: 88 Resp: 475

Ion Ratio Lower Upper

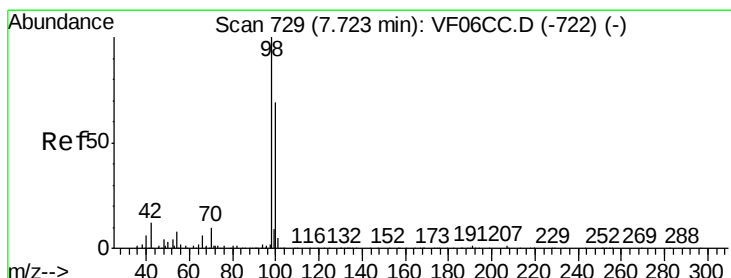
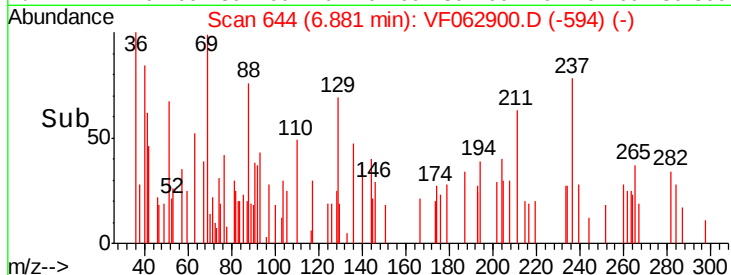
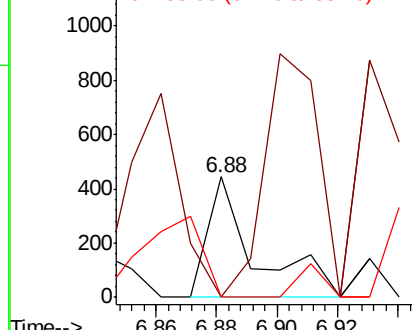
88 100

43 0.0 34.8 52.2#

58 0.0 59.9 89.9#



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: 29.247 ug/l

RT: 7.72 min Scan# 729

Delta R.T. -0.02 min

Lab File: VF062900.D

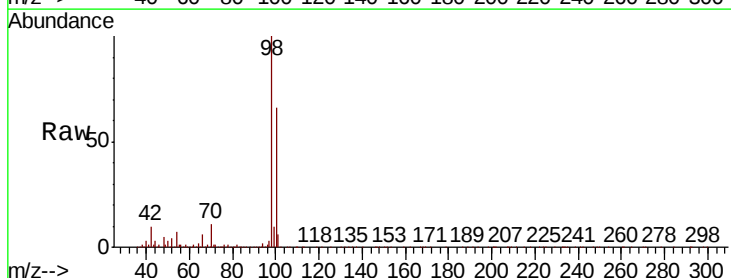
Acq: 7 Jun 2019 15:18

Tgt Ion: 98 Resp: 664544

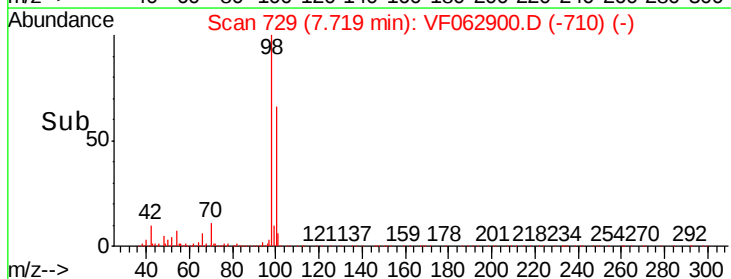
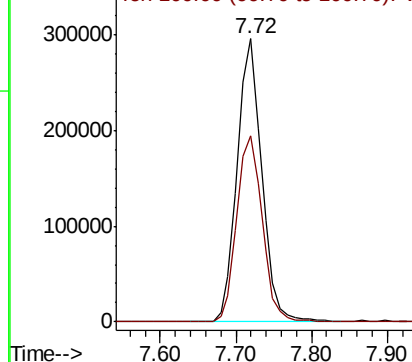
Ion Ratio Lower Upper

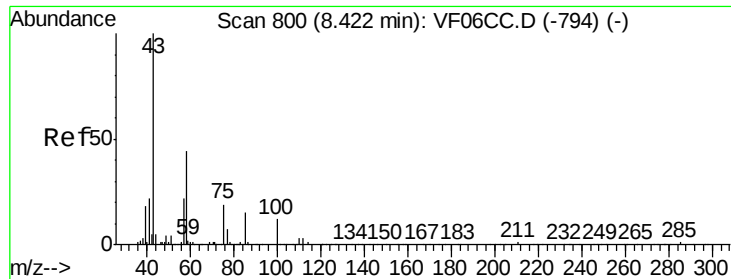
98 100

100 66.0 59.8 89.8



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





#51

4-Methyl-2-pentanone

Concen: 1.878 ug/l

RT: 8.41 min Scan# 799

Delta R.T. -0.02 min

Lab File: VF062900.D

Acq: 7 Jun 2019 15:18

Instrument :

MSVOA_F

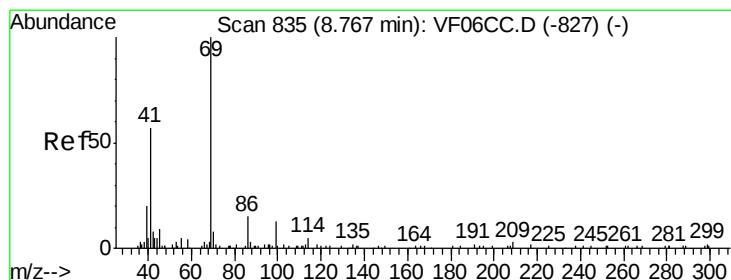
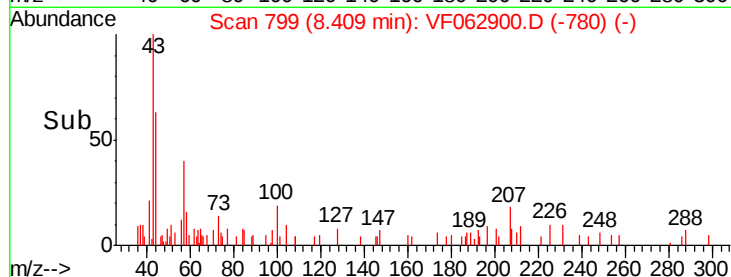
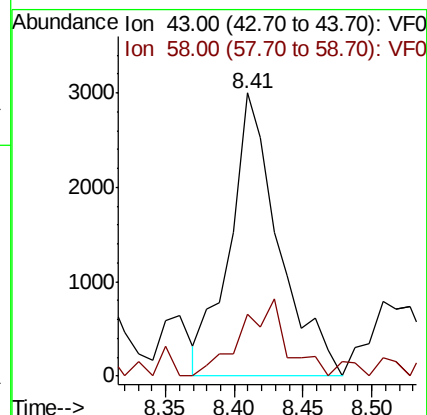
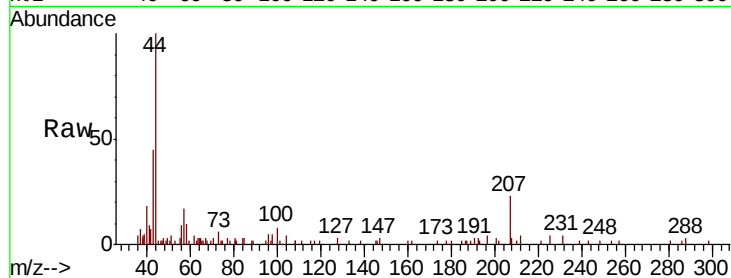
ClientSampleId :

Tot Ion: 43 Resp: 7412

Ion Ratio Lower Upper

43 100

58 22.0 35.5 53.3#



#56

Ethyl methacrylate

Concen: 1.288 ug/l

RT: 8.77 min Scan# 836

Delta R.T. -0.01 min

Lab File: VF062900.D

Acq: 7 Jun 2019 15:18

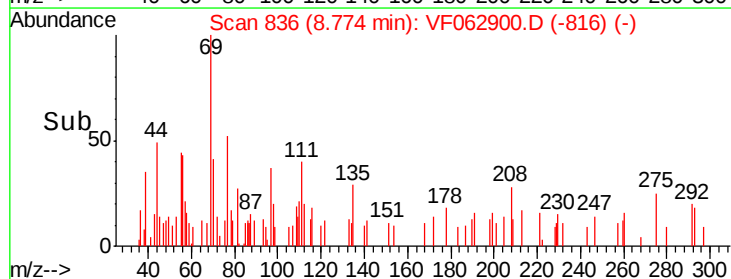
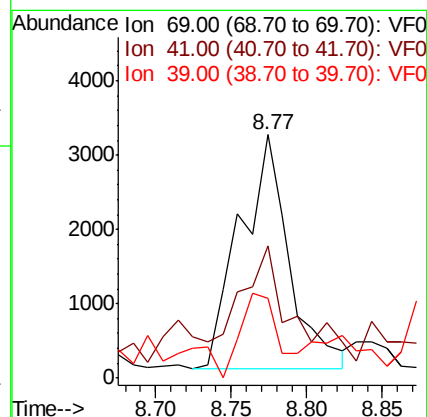
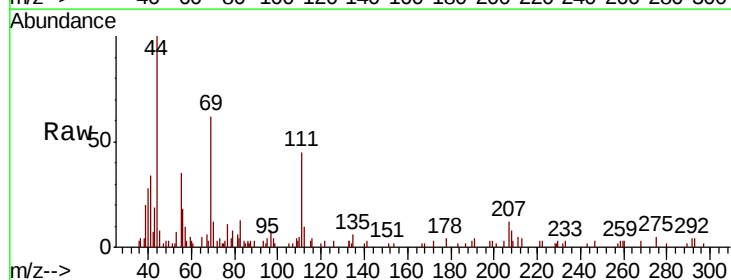
Tgt Ion: 69 Resp: 7083

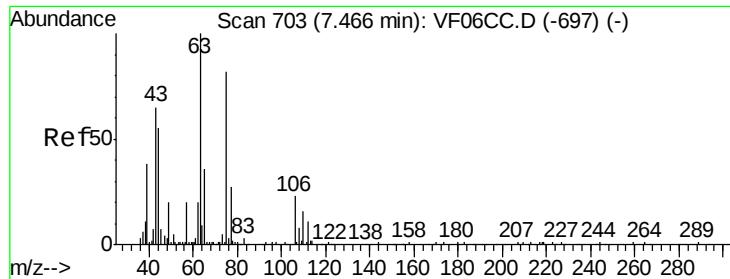
Ion Ratio Lower Upper

69 100

41 54.2 46.6 69.8

39 32.7 19.6 29.4#





#58

2-Chloroethyl Vinyl ether

Concen: 1.824 ug/l

RT: 7.46 min Scan# 703

Delta R.T. -0.01 min

Lab File: VF062900.D

Acq: 7 Jun 2019 15:18

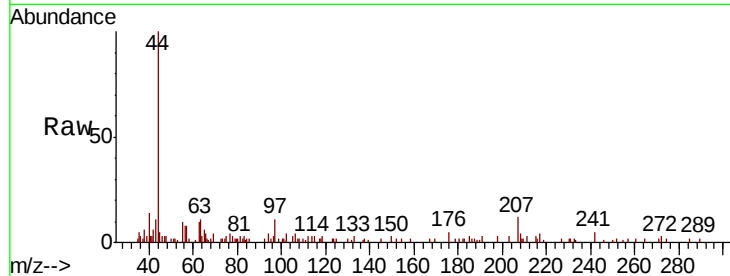
Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 63 Resp: 3506

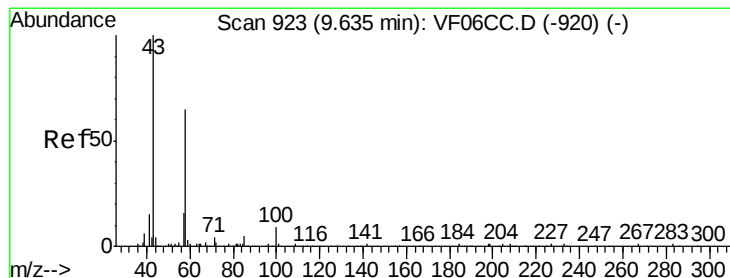
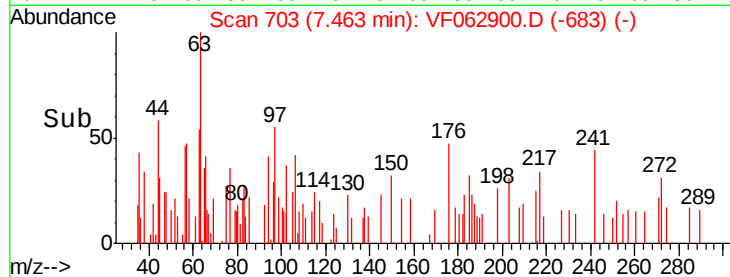
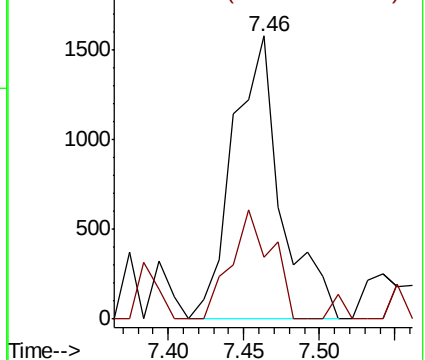
Ion Ratio Lower Upper

63 100

106 21.7 19.5 29.3



Abundance Ion 63.00 (62.70 to 63.70): VF0
Ion 106.00 (105.70 to 106.70): V



#59

2-Hexanone

Concen: 1.212 ug/l

RT: 9.63 min Scan# 923

Delta R.T. -0.01 min

Lab File: VF062900.D

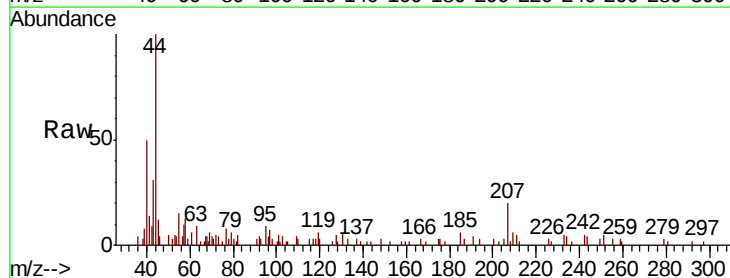
Acq: 7 Jun 2019 15:18

Tgt Ion: 43 Resp: 3408

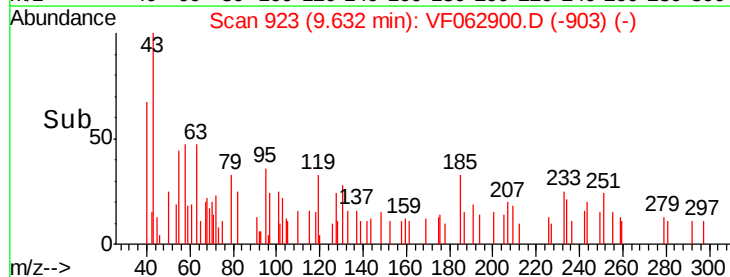
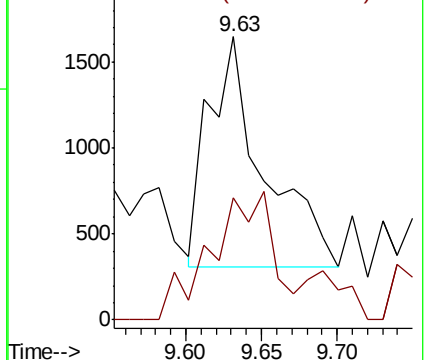
Ion Ratio Lower Upper

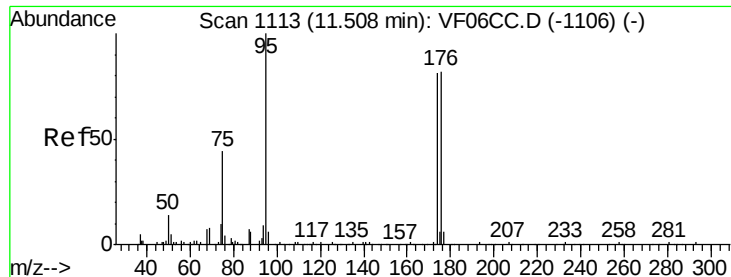
43 100

58 43.0 29.3 87.9



Abundance Ion 43.00 (42.70 to 43.70): VF0
Ion 58.00 (57.70 to 58.70): VF0





#62

4-Bromofluorobenzene

Concen: 24.026 ug/l

RT: 11.49 min Scan# 1112

Delta R.T. -0.02 min

Lab File: VF062900.D

Acq: 7 Jun 2019 15:18

Instrument :

MSVOA_F

ClientSampleId :

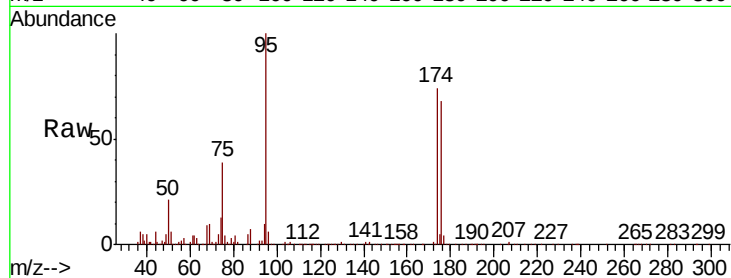
Tot Ion: 95 Resp: 196368

Ion Ratio Lower Upper

95 100

174 73.9 0.0 170.6

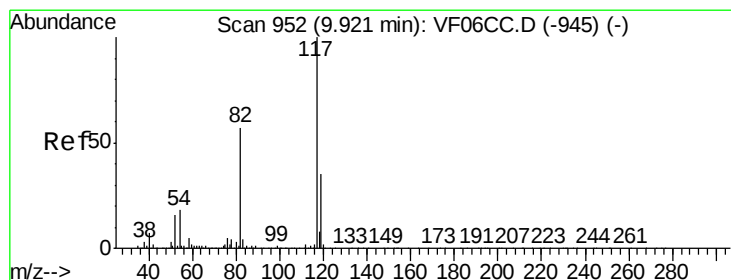
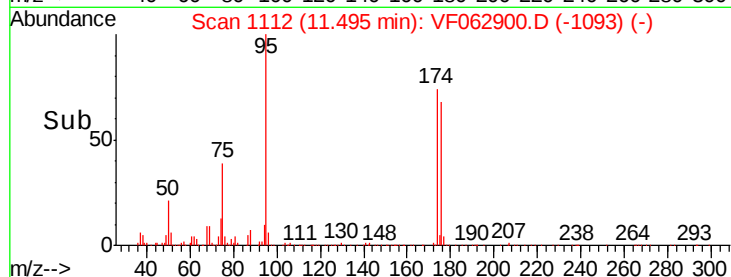
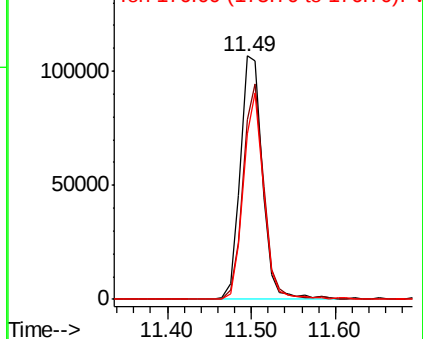
176 68.1 0.0 170.6



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: 9.92 min Scan# 952

Delta R.T. -0.02 min

Lab File: VF062900.D

Acq: 7 Jun 2019 15:18

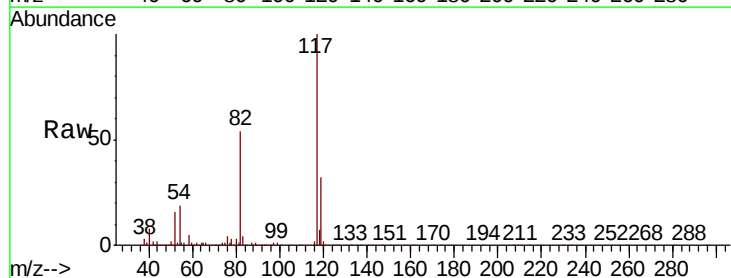
Tgt Ion: 117 Resp: 717104

Ion Ratio Lower Upper

117 100

82 53.6 42.4 63.6

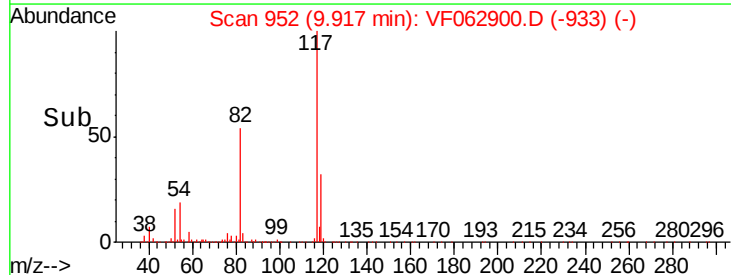
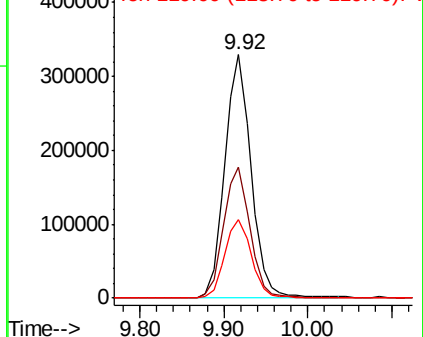
119 32.3 27.1 40.7

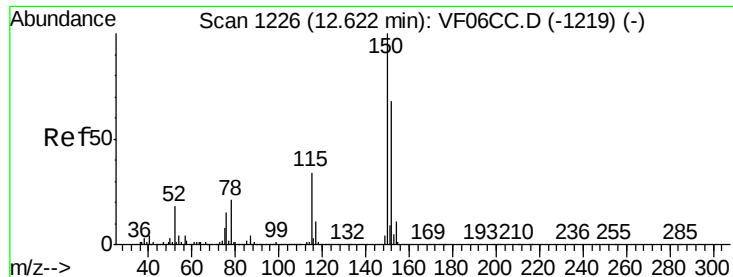


Abundance Ion 117.00 (116.70 to 117.70): VF0

Ion 82.00 (81.70 to 82.70): VF0

Ion 119.00 (118.70 to 119.70): VF0



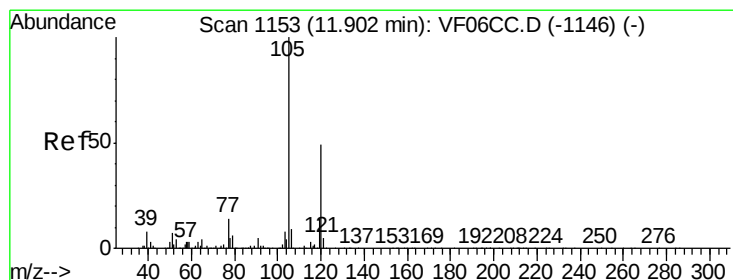
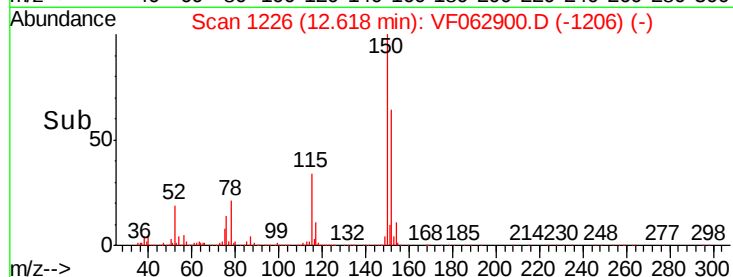
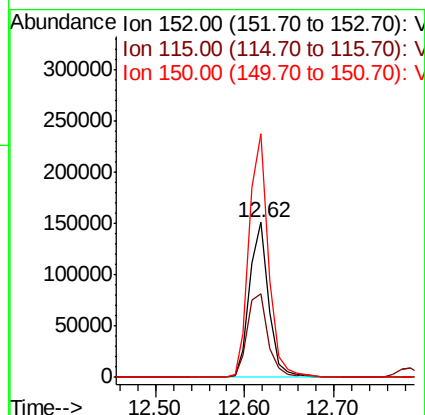
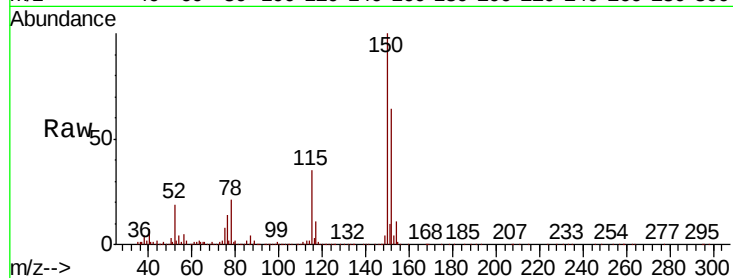


#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.62 min Scan# 1226
Delta R.T. -0.01 min
Lab File: VF062900.D
Acq: 7 Jun 2019 15:18

Instrument :
MSVOA_F
ClientSampleId :

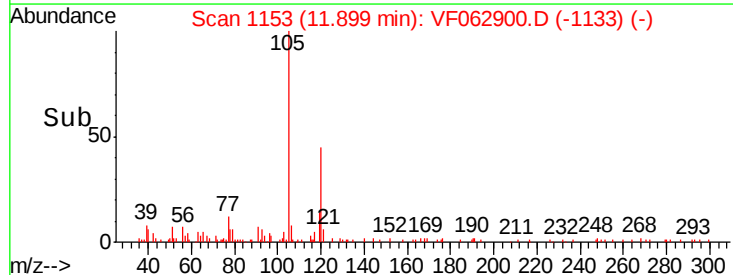
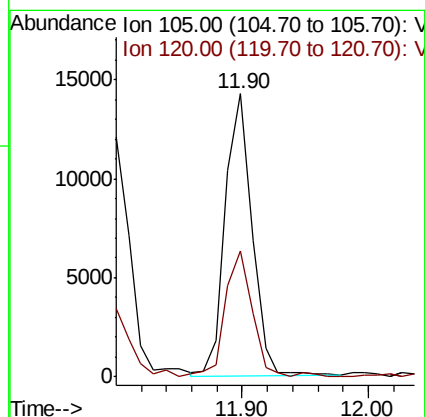
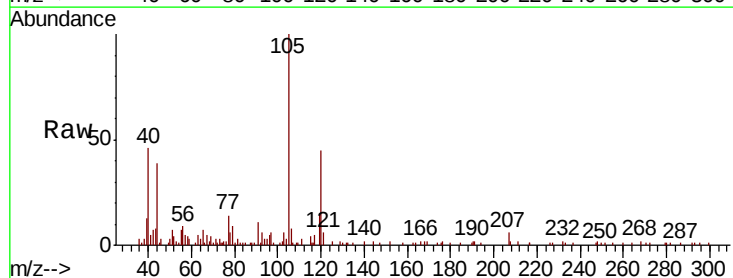
Tot Ion	Ratio	Lower	Upper
152	100		
115	54.2	24.6	74.0
150	157.0	0.0	290.6

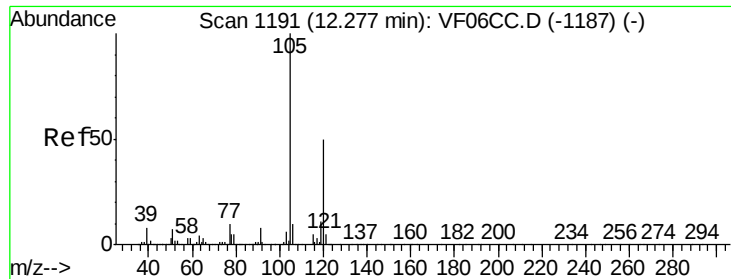


#80

1,3,5-Trimethylbenzene
Concen: 1.628 ug/l
RT: 11.90 min Scan# 1153
Delta R.T. -0.01 min
Lab File: VF062900.D
Acq: 7 Jun 2019 15:18

Tgt Ion	Ratio	Lower	Upper
105	100		
120	44.7	28.7	86.1

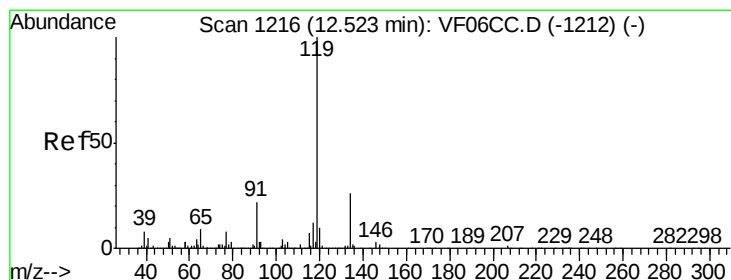
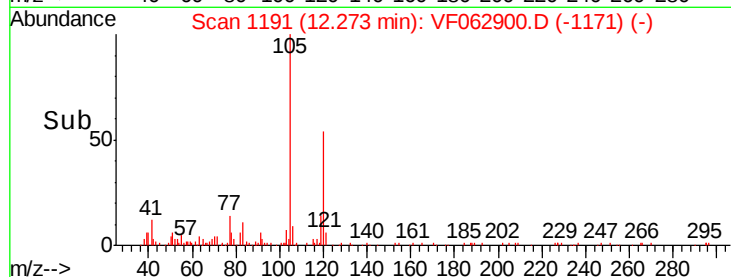
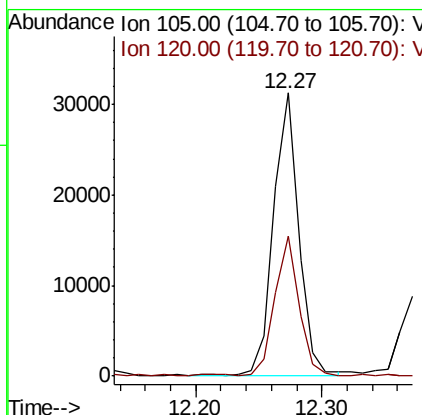
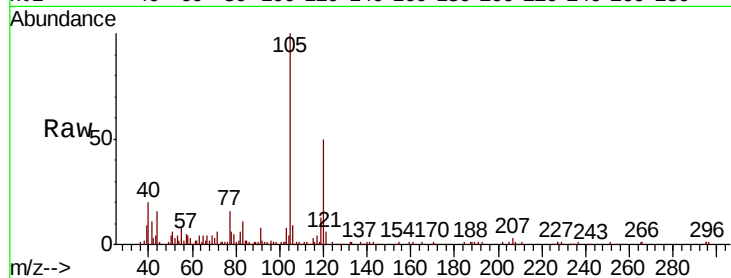




#84
 1,2,4-Trimethylbenzene
 Concen: 3.614 ug/l
 RT: 12.27 min Scan# 1191
 Delta R.T. -0.01 min
 Lab File: VF062900.D
 Acq: 7 Jun 2019 15:18

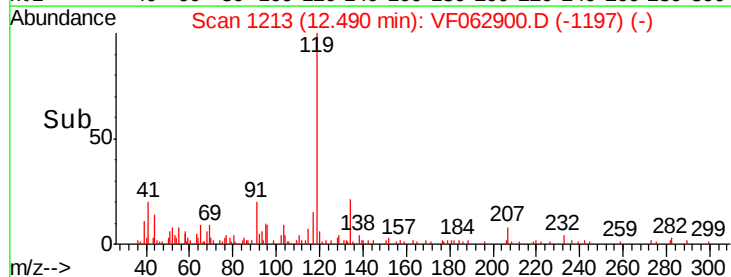
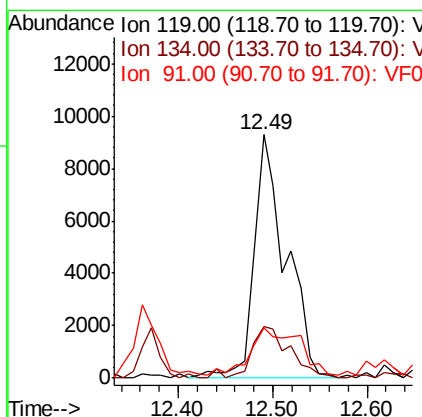
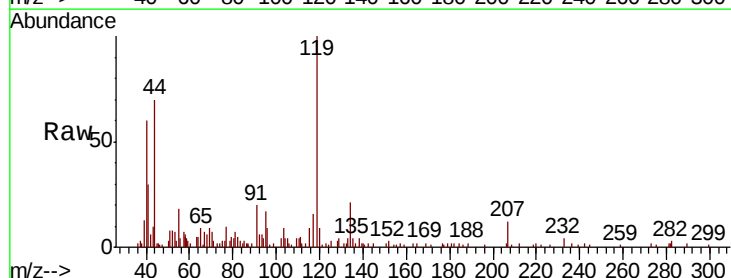
Instrument :
 MSVOA_F
 ClientSampleId :

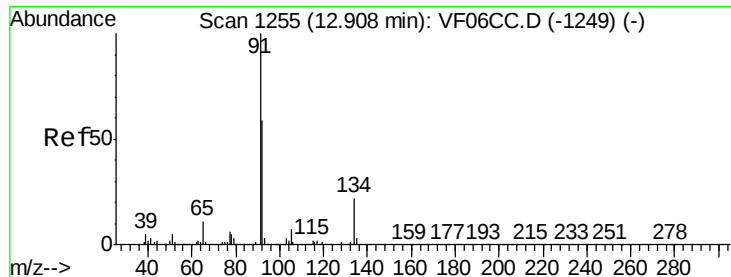
Tot Ion:105 Resp: 43858
 Ion Ratio Lower Upper
 105 100
 120 49.5 27.1 81.3



#86
 p-Isopropyltoluene
 Concen: 1.554 ug/l
 RT: 12.49 min Scan# 1213
 Delta R.T. -0.04 min
 Lab File: VF062900.D
 Acq: 7 Jun 2019 15:18

Tgt Ion:119 Resp: 21615
 Ion Ratio Lower Upper
 119 100
 134 21.1 15.5 46.5
 91 20.5 10.3 30.9

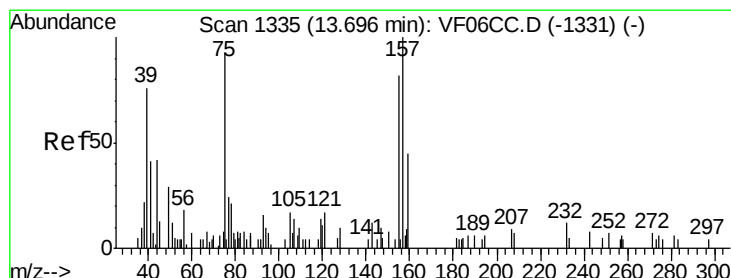
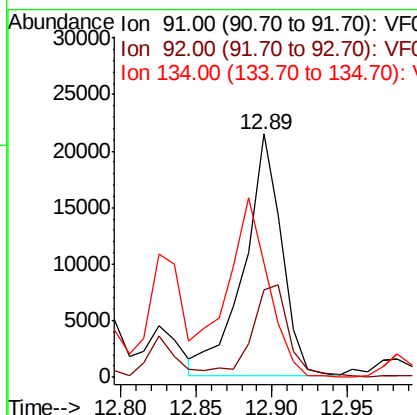
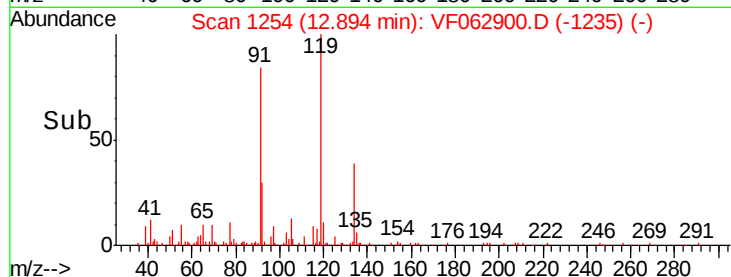
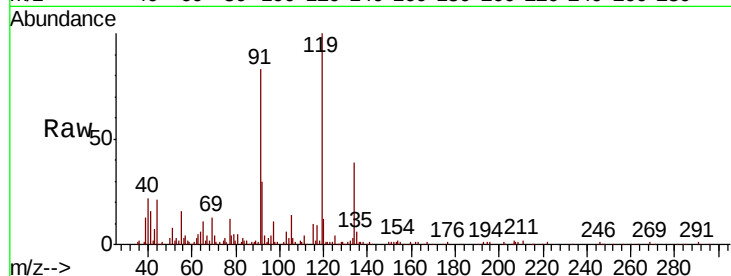




#89
n-Butylbenzene
Concen: 2.652 ug/l
RT: 12.89 min Scan# 1254
Delta R.T. -0.02 min
Lab File: VF062900.D
Acq: 7 Jun 2019 15:18

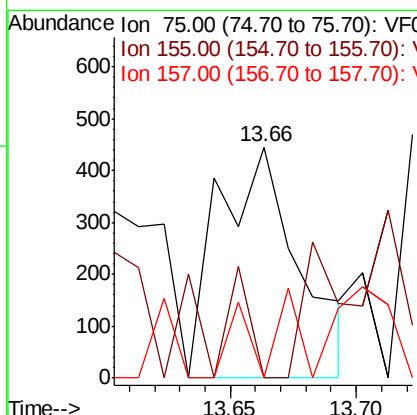
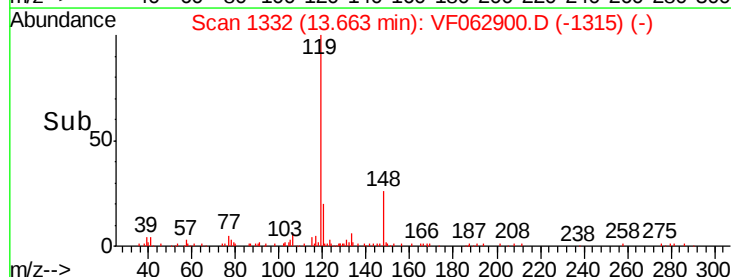
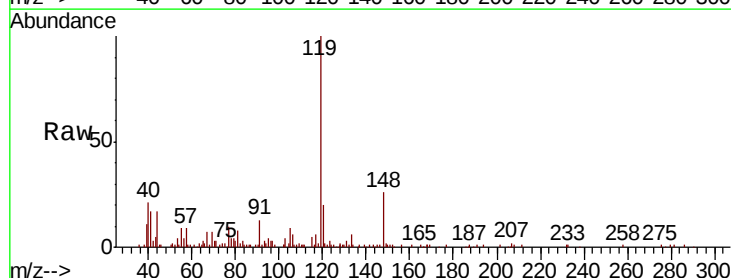
Instrument :
MSVOA_F
ClientSampled :

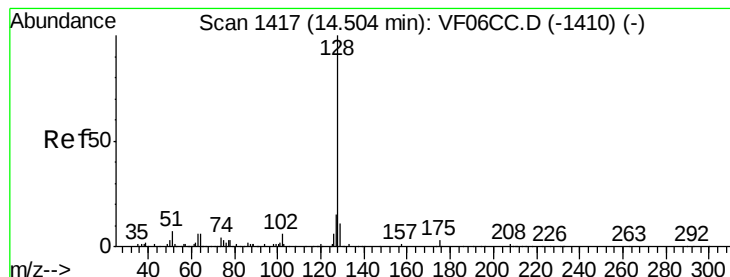
Tot Ion: 91 Resp: 37112
Ion Ratio Lower Upper
91 100
92 36.2 34.2 102.6
134 47.1 15.8 47.3



#92
1,2-Dibromo-3-Chloropropane
Concen: 2.730 ug/l
RT: 13.66 min Scan# 1332
Delta R.T. -0.04 min
Lab File: VF062900.D
Acq: 7 Jun 2019 15:18

Tgt Ion: 75 Resp: 994
Ion Ratio Lower Upper
75 100
155 0.0 51.7 155.1#
157 0.0 66.8 200.6#

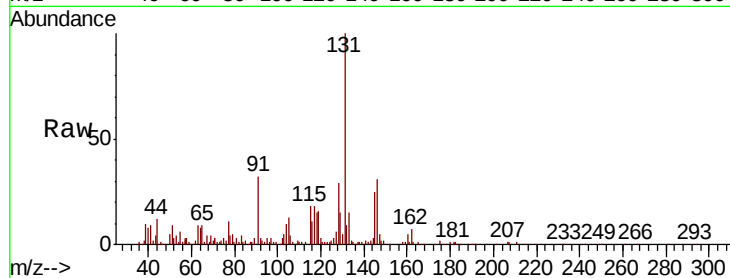




#95
Naphthalene
Concen: 4.291 ug/l
RT: 14.50 min Scan# 1417
Delta R.T. -0.01 min
Lab File: VF062900.D
Acq: 7 Jun 2019 15:18

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
128	100		
127	20.7	9.7	14.5#
129	50.2	9.4	14.2#



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

