

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF061219\
 Data File : VF062924.D
 Acq On : 12 Jun 2019 13:41
 Operator : FY/SY
 Sample : K3159-01
 Misc : 6.63g/5mL/MSVOA F/SOIL
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :

Quant Time: Jun 13 08:30:06 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

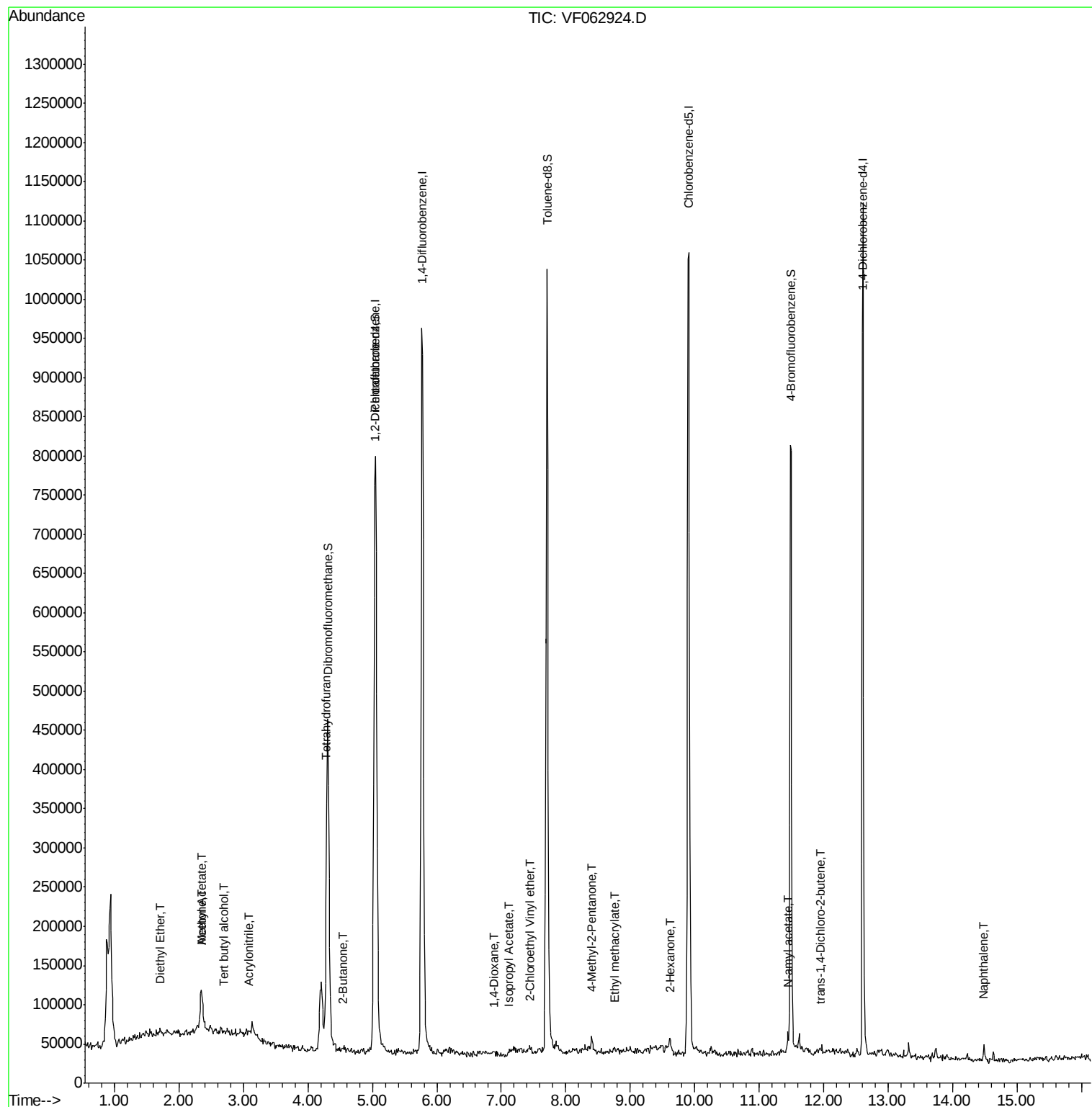
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.05	168	676676	50.00	ug/l	-0.03
34) 1,4-Difluorobenzene	5.78	114	1217696	50.00	ug/l	-0.03
63) Chlorobenzene-d5	9.91	117	848200	50.00	ug/l	-0.03
72) 1,4-Dichlorobenzene-d4	12.61	152	295606	50.00	ug/l	-0.02
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.03	65	236079	50.45	ug/l	-0.03
Spiked Amount 50.000			Recovery	=	100.90%	
35) Dibromofluoromethane	4.31	113	435753	47.36	ug/l	-0.03
Spiked Amount 50.000			Recovery	=	94.72%	
50) Toluene-d8	7.71	98	808913	34.76	ug/l	-0.03
Spiked Amount 50.000			Recovery	=	69.52%	
62) 4-Bromofluorobenzene	11.48	95	311803	37.25	ug/l	-0.03
Spiked Amount 50.000			Recovery	=	74.50%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.01	85	746	Below Cal		92
8) Diethyl Ether	1.71	74	2879	1.486 ug/l #		1
11) Tert butyl alcohol	2.70	59	3485	12.294 ug/l #		50
13) Acrolein	2.11	56	560	Below Cal #		82
15) Acrylonitrile	3.09	53	1278	1.200 ug/l #		58
16) Acetone	2.35	43	93844	87.625 ug/l #		87
18) Methyl Acetate	2.35	43	93844	50.143 ug/l #		49
20) Methylene Chloride	2.33	84	9569	Below Cal #		89
25) 2-Butanone	4.54	43	6730	2.698 ug/l		91
29) Tetrahydrofuran	4.28	42	1874	1.965 ug/l #		19
43) Isopropyl Acetate	7.11	43	6630	1.171 ug/l #		70
49) 1,4-Dioxane	6.87	88	347	9.024 ug/l #		12
51) 4-Methyl-2-Pentanone	8.41	43	16324	4.039 ug/l #		83
56) Ethyl methacrylate	8.76	69	7078	1.257 ug/l #		91
58) 2-Chloroethyl Vinyl ether	7.44	63	3019	1.534 ug/l #		77
59) 2-Hexanone	9.61	43	17396	6.039 ug/l		100
74) N-amyl acetate	11.45	43	18862	3.245 ug/l		94
81) trans-1,4-Dichloro-2-buten	11.95	75	1568	1.268 ug/l #		62
95) Naphthalene	14.49	128	13992	1.548 ug/l		98

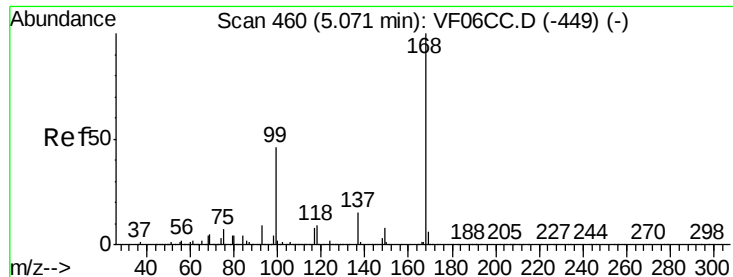
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF061219\
Data File : VF062924.D
Acq On : 12 Jun 2019 13:41
Operator : FY/SY
Sample : K3159-01
Misc : 6.63g/5mL/MSVOA F/SOIL
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_F
ClientSampleId :

Quant Time: Jun 13 08:30:06 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_F\METHODS\82F053019S.M
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: 5.05 min Scan# 458

Delta R.T. -0.03 min

Lab File: VF062924.D

Acq: 12 Jun 2019 13:41

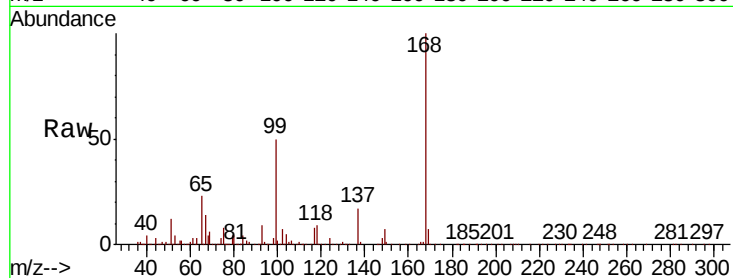
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:168 Resp: 676676

Ion Ratio Lower Upper

168 100

99 49.5 39.1 58.7



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

5.05

250000

200000

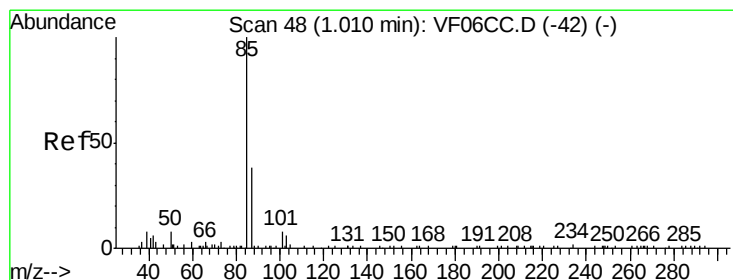
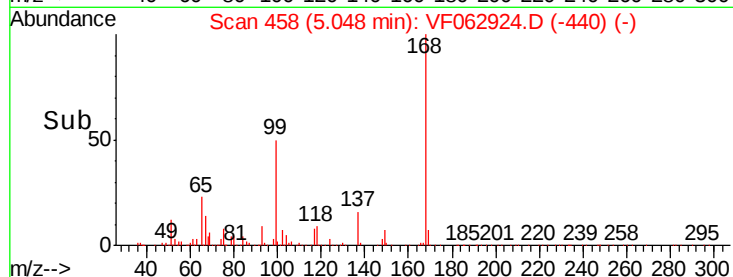
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.01 min Scan# 48

Delta R.T. -0.00 min

Lab File: VF062924.D

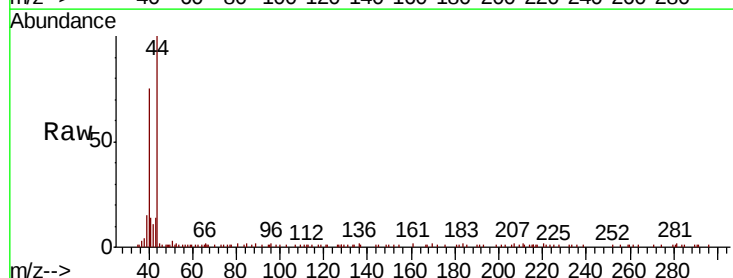
Acq: 12 Jun 2019 13:41

Tgt Ion: 85 Resp: 746

Ion Ratio Lower Upper

85 100

87 39.8 17.6 52.9



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

600

500

400

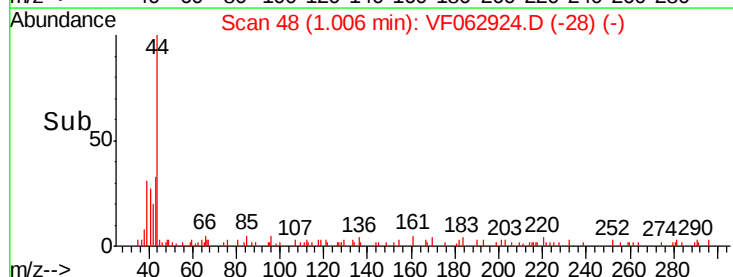
300

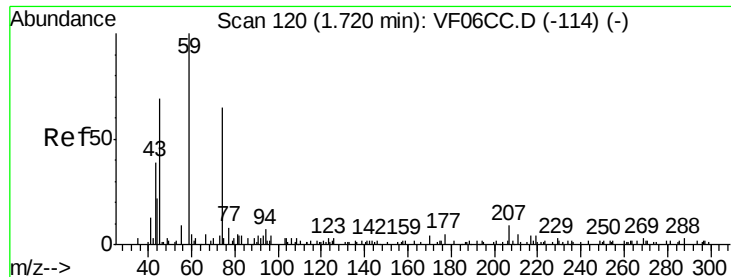
200

100

0

Time-->





#8

Diethyl Ether

Concen: 1.486 ug/l

RT: 1.71 min Scan# 119

Delta R.T. -0.02 min

Lab File: VF062924.D

Acq: 12 Jun 2019 13:41

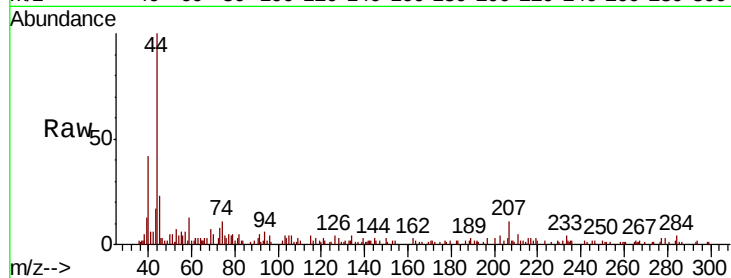
Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 74 Resp: 2879

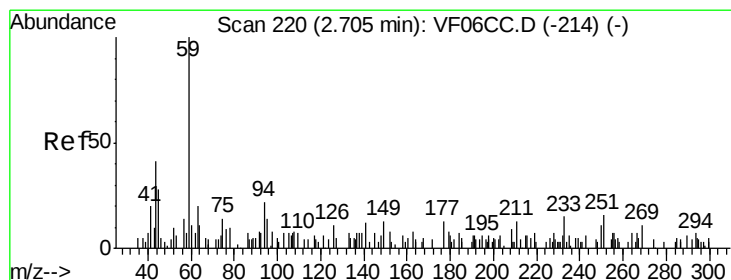
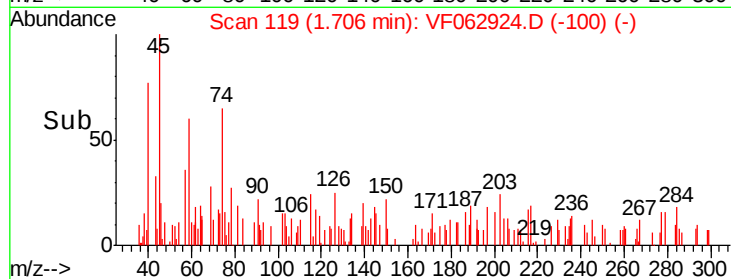
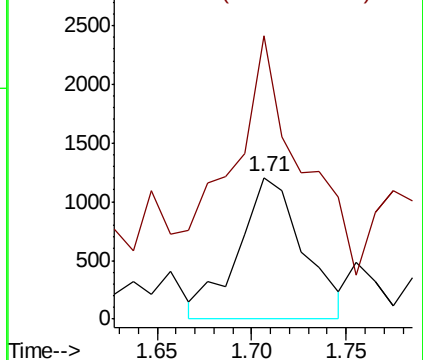
Ion Ratio Lower Upper

74 100

45 200.2 47.5 142.5#



Abundance Ion 74.00 (73.70 to 74.70): VF0
Ion 45.00 (44.70 to 45.70): VF0



#11

Tert butyl alcohol

Concen: 12.294 ug/l

RT: 2.70 min Scan# 220

Delta R.T. -0.02 min

Lab File: VF062924.D

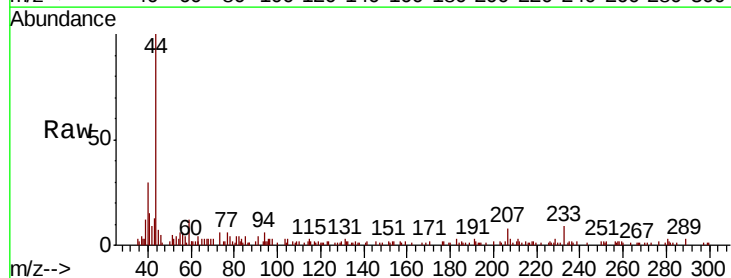
Acq: 12 Jun 2019 13:41

Tgt Ion: 59 Resp: 3485

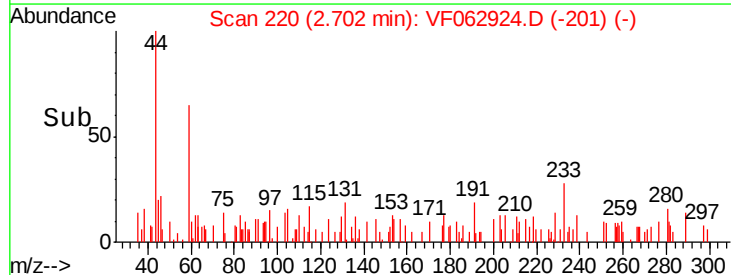
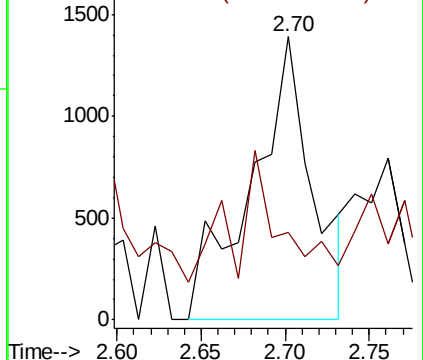
Ion Ratio Lower Upper

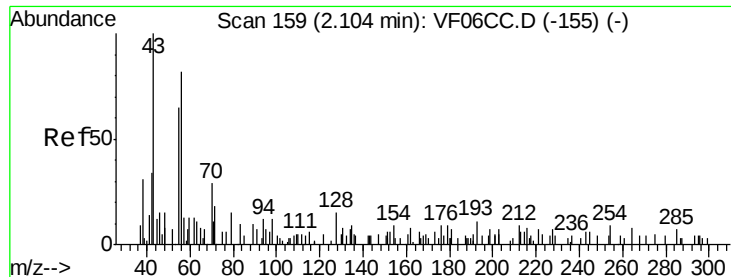
59 100

57 30.7 9.2 13.8#



Abundance Ion 59.00 (58.70 to 59.70): VF0
Ion 57.00 (56.70 to 57.70): VF0





#13

Acrolein

Concen: Below Cal

RT: 2.11 min Scan# 160

Delta R.T. -0.00 min

Lab File: VF062924.D

Acq: 12 Jun 2019 13:41

Instrument :

MSVOA_F

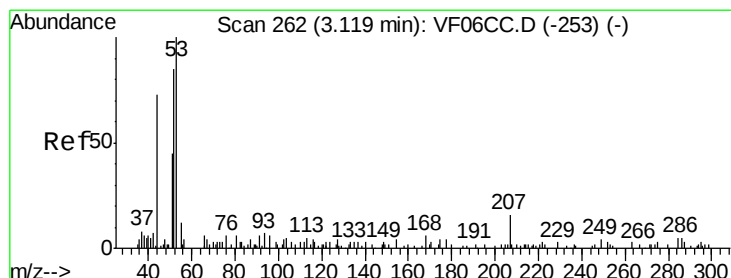
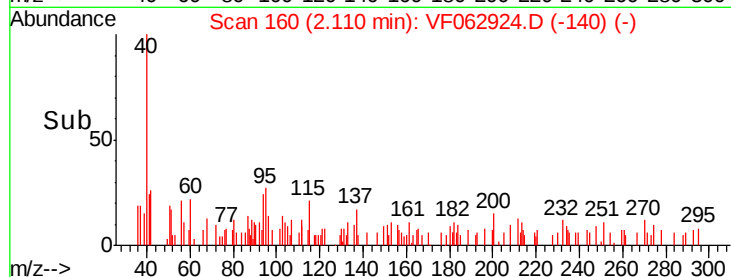
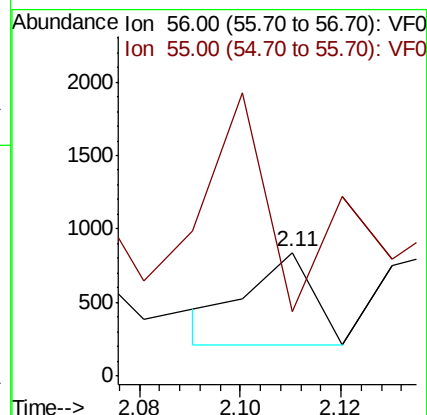
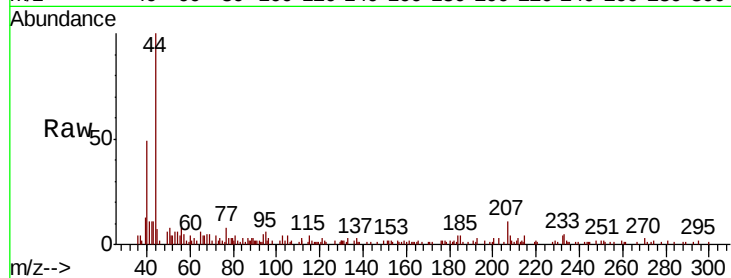
ClientSampled :

Tot Ion: 56 Resp: 560

Ion Ratio Lower Upper

56 100

55 51.5 52.9 79.3#



#15

Acrylonitrile

Concen: 1.200 ug/l

RT: 3.09 min Scan# 259

Delta R.T. -0.03 min

Lab File: VF062924.D

Acq: 12 Jun 2019 13:41

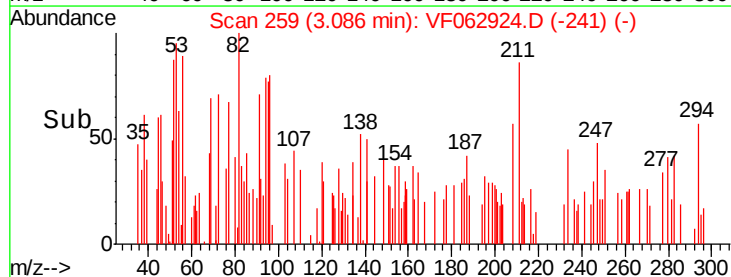
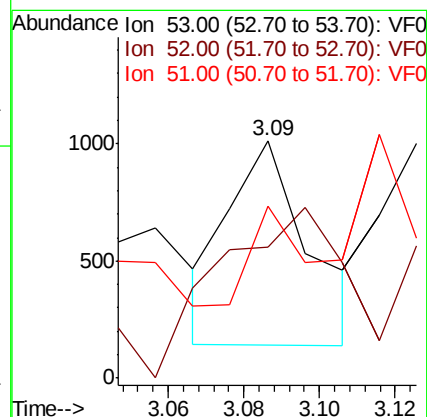
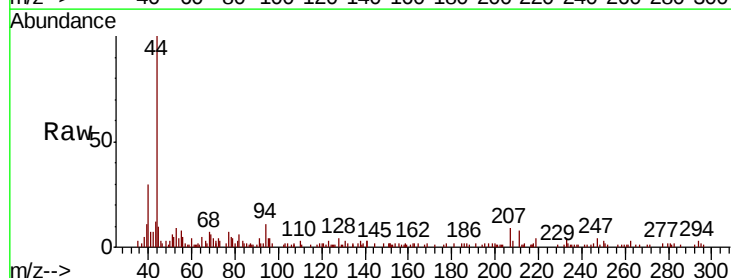
Tgt Ion: 53 Resp: 1278

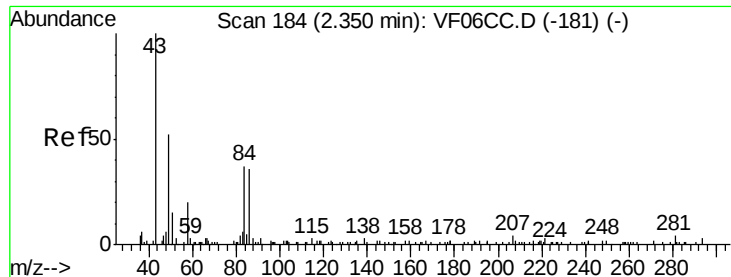
Ion Ratio Lower Upper

53 100

52 55.3 68.1 102.1#

51 72.3 27.7 41.5#

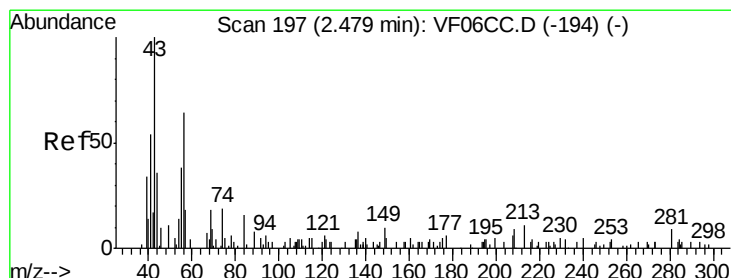
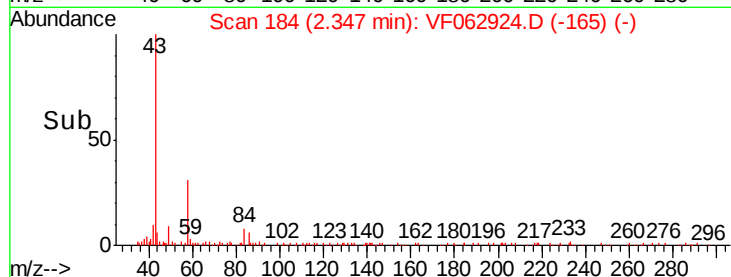
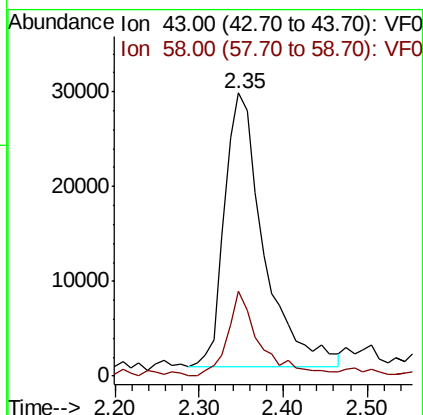
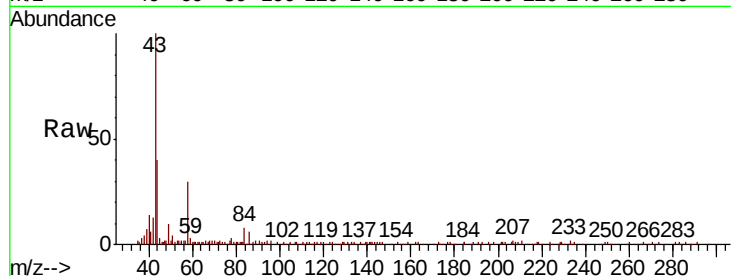




#16
Acetone
Concen: 87.625 ug/l
RT: 2.35 min Scan# 184
Delta R.T. -0.02 min
Lab File: VF062924.D
Acq: 12 Jun 2019 13:41

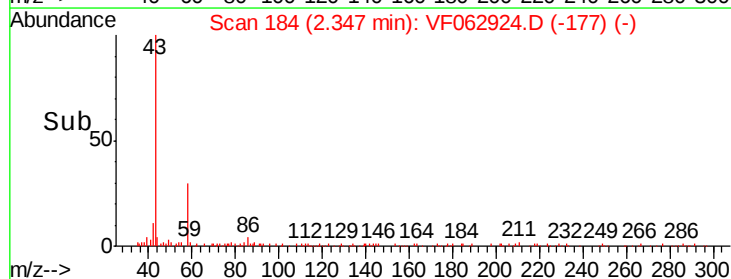
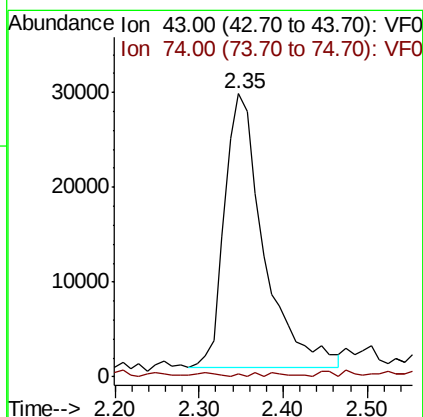
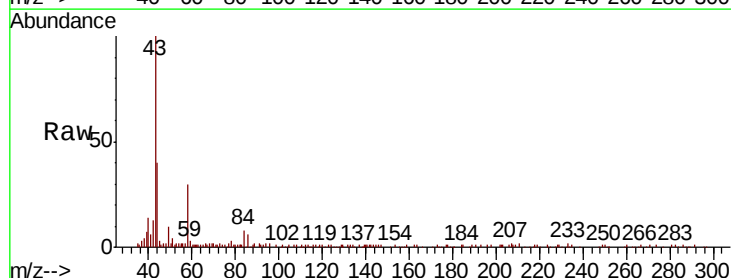
Instrument :
MSVOA_F
ClientSampleId :

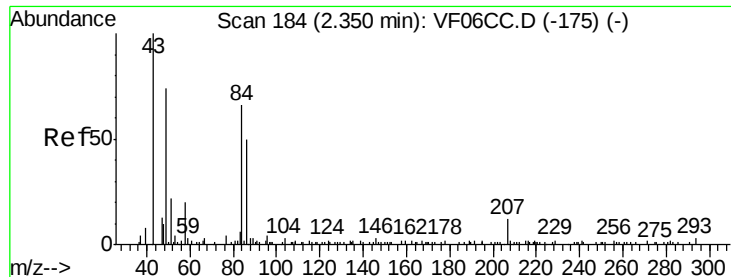
Tot Ion: 43 Resp: 93844
Ion Ratio Lower Upper
43 100
58 30.0 19.0 28.4#



#18
Methyl Acetate
Concen: 50.143 ug/l
RT: 2.35 min Scan# 184
Delta R.T. -0.13 min
Lab File: VF062924.D
Acq: 12 Jun 2019 13:41

Tgt Ion: 43 Resp: 93844
Ion Ratio Lower Upper
43 100
74 1.1 22.1 33.1#

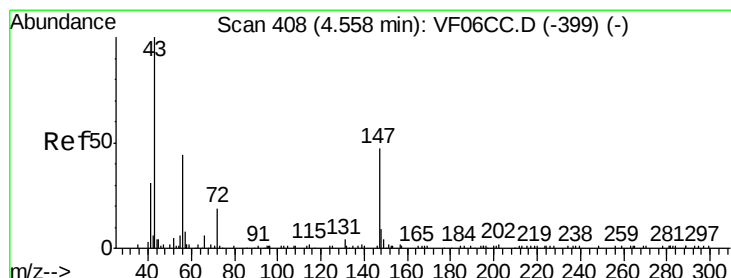
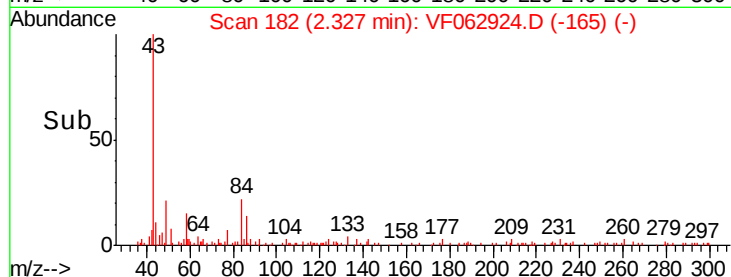
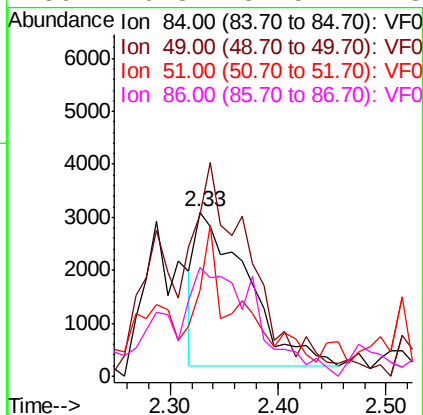
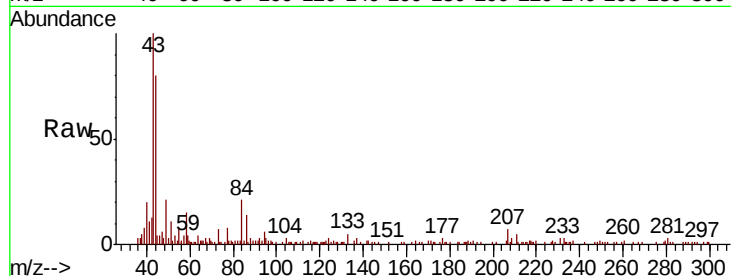




#20
Methvlene Chloride
Concen: Below Cal
RT: 2.33 min Scan# 182
Delta R.T. -0.03 min
Lab File: VF062924.D
Acq: 12 Jun 2019 13:41

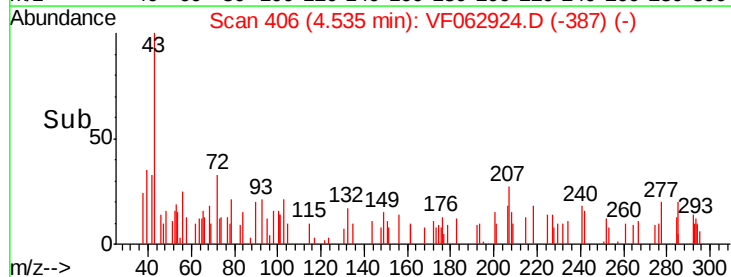
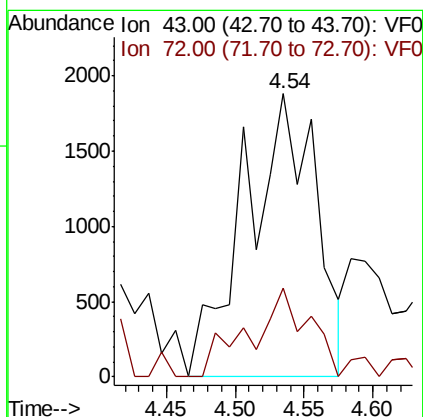
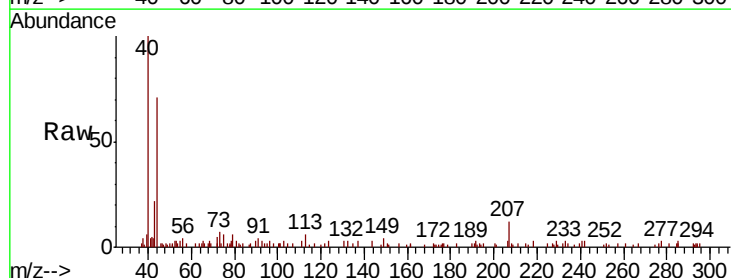
Instrument :
MSVOA_F
ClientSampleId :

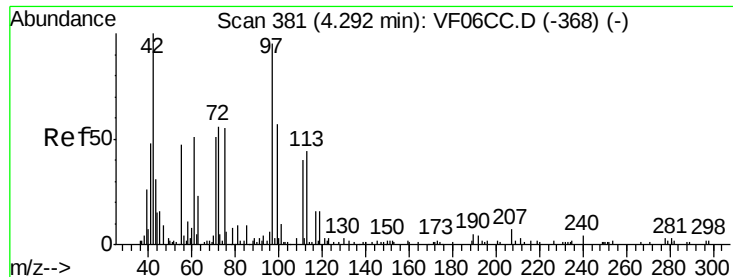
Tot Ion: 84 Resp: 9569
Ion Ratio Lower Upper
84 100
49 98.3 82.6 123.8
51 52.1 25.0 37.4#
86 70.3 51.5 77.3



#25
2-Butanone
Concen: 2.698 ug/l
RT: 4.54 min Scan# 406
Delta R.T. -0.02 min
Lab File: VF062924.D
Acq: 12 Jun 2019 13:41

Tgt Ion: 43 Resp: 6730
Ion Ratio Lower Upper
43 100
72 31.5 21.4 32.0

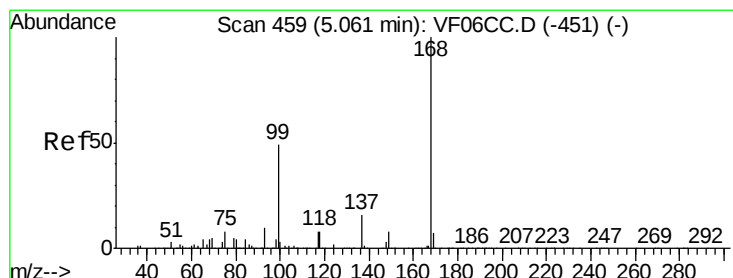
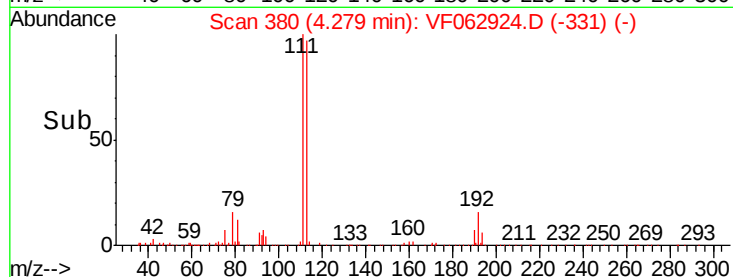
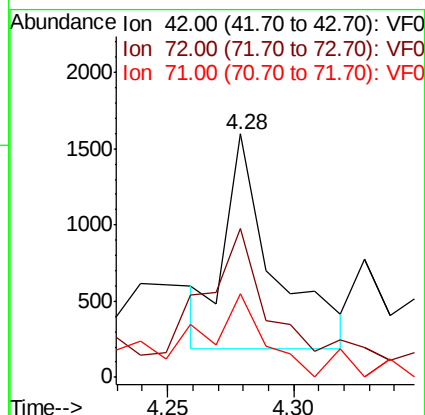
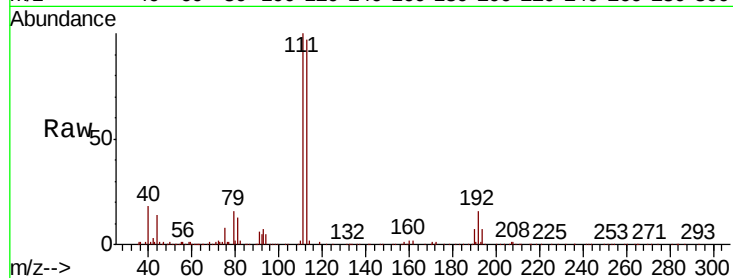




#29
Tetrahydrofuran
Concen: 1.965 ug/l
RT: 4.28 min Scan# 380
Delta R.T. -0.02 min
Lab File: VF062924.D
Acq: 12 Jun 2019 13:41

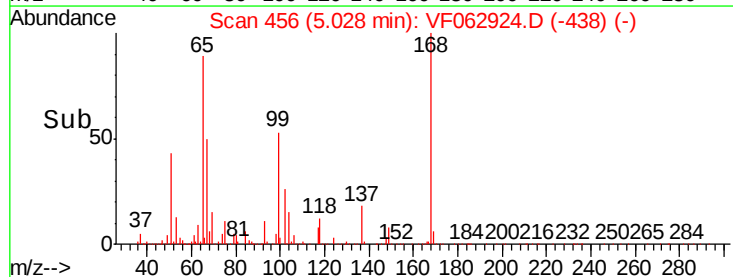
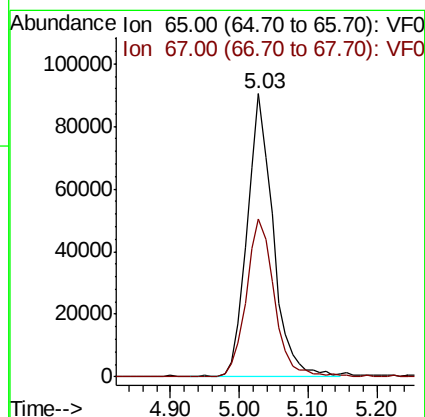
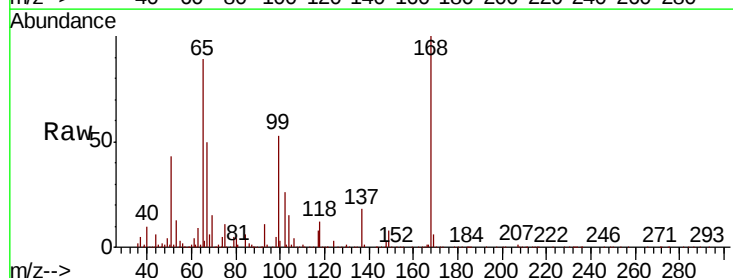
Instrument :
MSVOA_F
ClientSampleId :

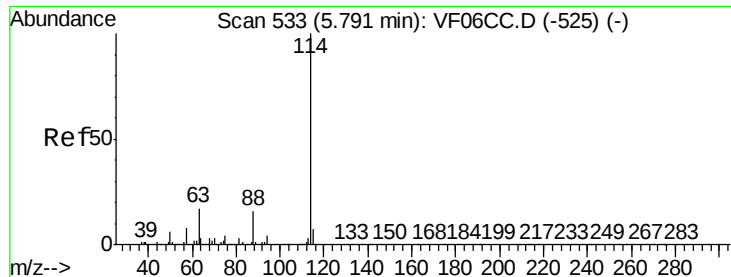
Tot Ion: 42 Resp: 1874
Ion Ratio Lower Upper
42 100
72 124.9 39.0 58.6#
71 77.7 36.9 55.3#



#33
1,2-Dichloroethane-d4
Concen: 50.452 ug/l
RT: 5.03 min Scan# 456
Delta R.T. -0.03 min
Lab File: VF062924.D
Acq: 12 Jun 2019 13:41

Tgt Ion: 65 Resp: 236079
Ion Ratio Lower Upper
65 100
67 55.9 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: VF062924.D

Acq: 12 Jun 2019 13:41

Instrument :

MSVOA_F

ClientSampleId :

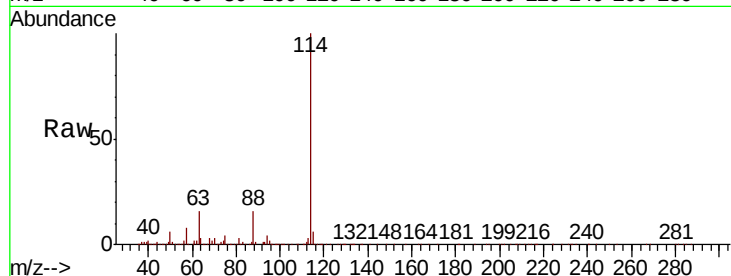
Tot Ion:114 Resp: 1217696

Ion Ratio Lower Upper

114 100

63 16.0 0.0 34.2

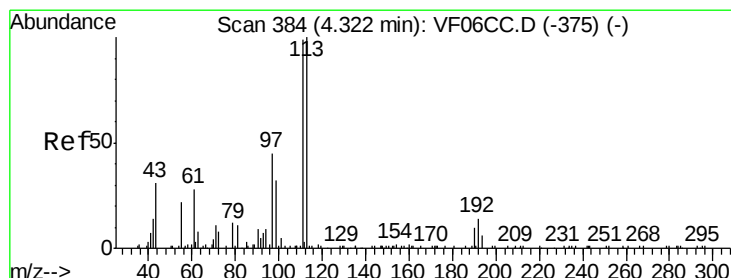
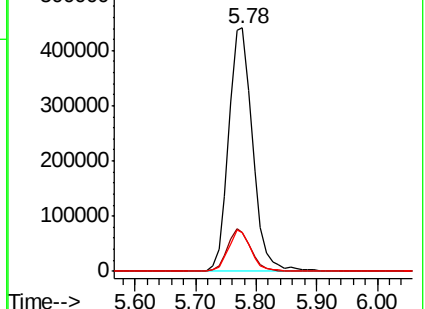
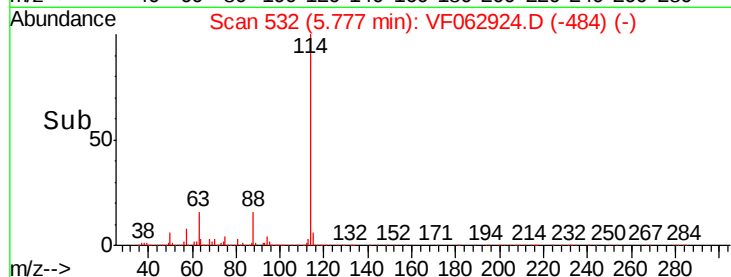
88 16.2 0.0 31.2



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: 47.356 ug/l

RT: 4.31 min Scan# 383

Delta R.T. -0.03 min

Lab File: VF062924.D

Acq: 12 Jun 2019 13:41

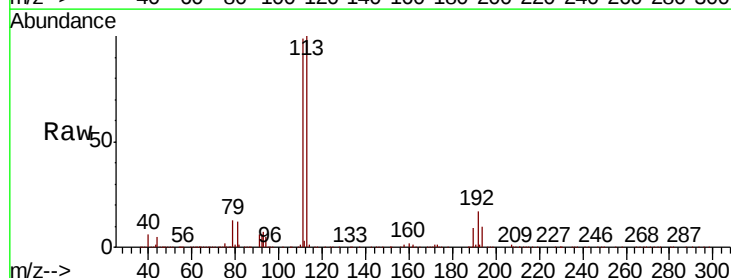
Tgt Ion:113 Resp: 435753

Ion Ratio Lower Upper

113 100

111 99.0 81.9 122.9

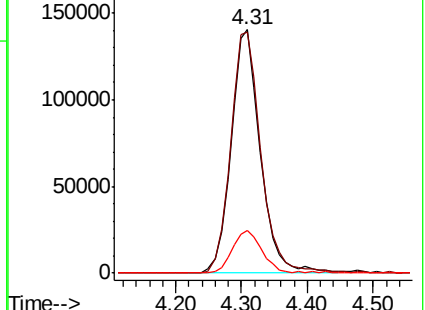
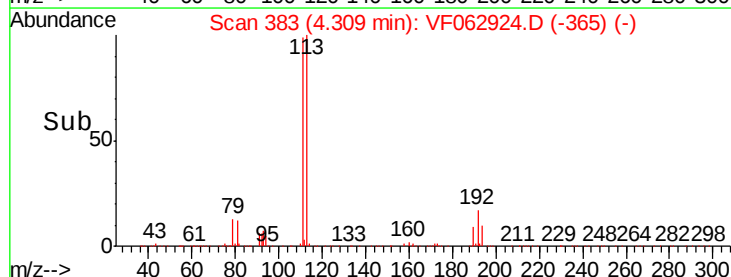
192 17.3 15.1 22.7

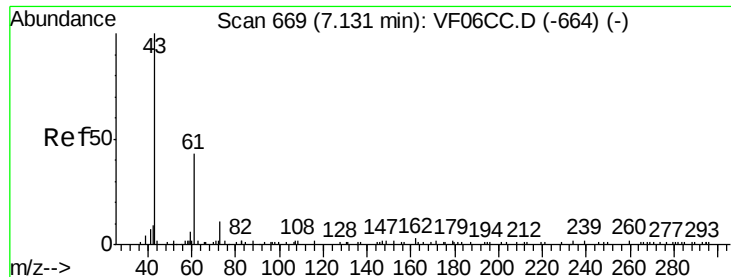


Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V





#43

Isopropyl Acetate

Concen: 1.171 ug/l

RT: 7.11 min Scan# 667

Delta R.T. -0.03 min

Lab File: VF062924.D

Acq: 12 Jun 2019 13:41

Instrument :

MSVOA_F

ClientSampleId :

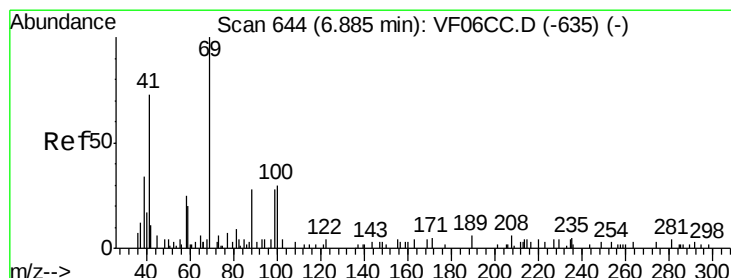
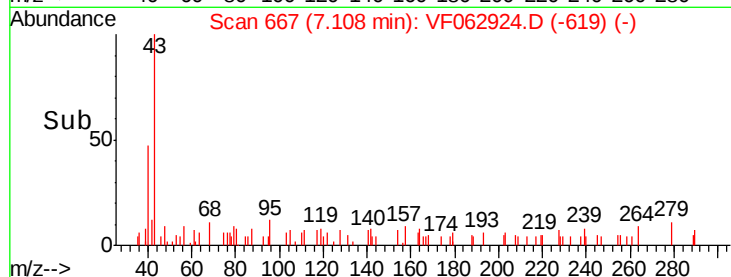
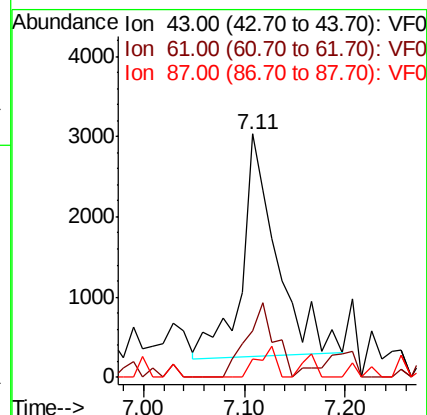
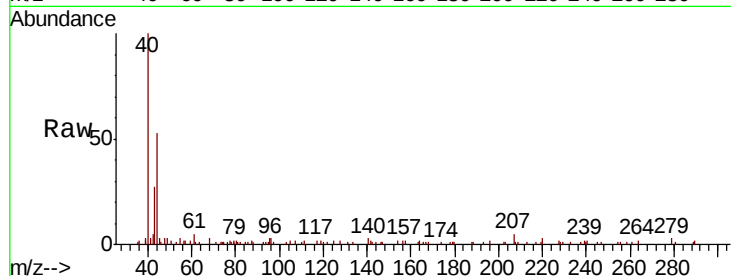
Tot Ion: 43 Resp: 6630

Ion Ratio Lower Upper

43 100

61 19.2 29.8 44.6#

87 7.4 0.3 0.5#



#49

1,4-Dioxane

Concen: 9.024 ug/l

RT: 6.87 min Scan# 643

Delta R.T. -0.02 min

Lab File: VF062924.D

Acq: 12 Jun 2019 13:41

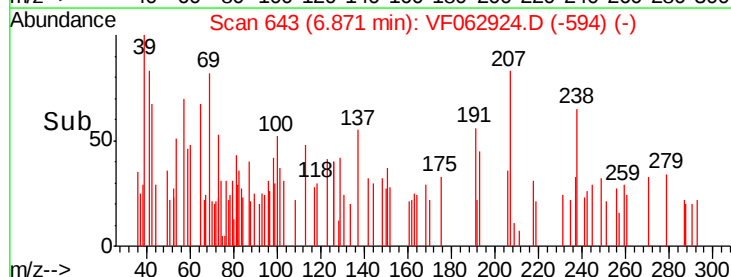
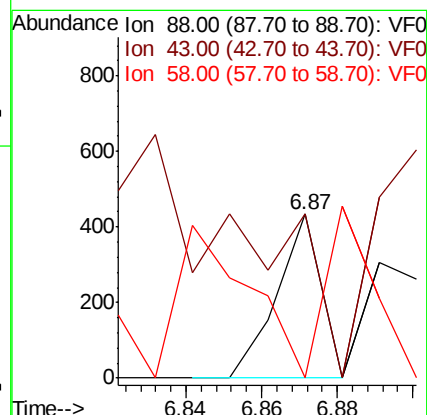
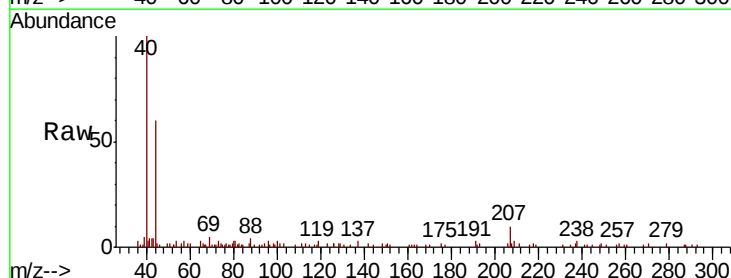
Tgt Ion: 88 Resp: 347

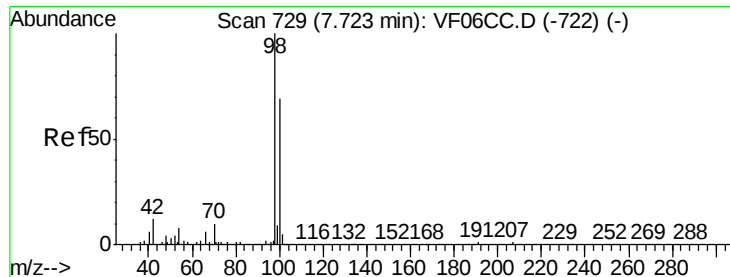
Ion Ratio Lower Upper

88 100

43 100.5 34.8 52.2#

58 0.0 59.9 89.9#





#50

Toluene-d8

Concen: 34.764 ug/l

RT: 7.71 min Scan# 728

Delta R.T. -0.03 min

Lab File: VF062924.D

Acq: 12 Jun 2019 13:41

Instrument :

MSVOA_F

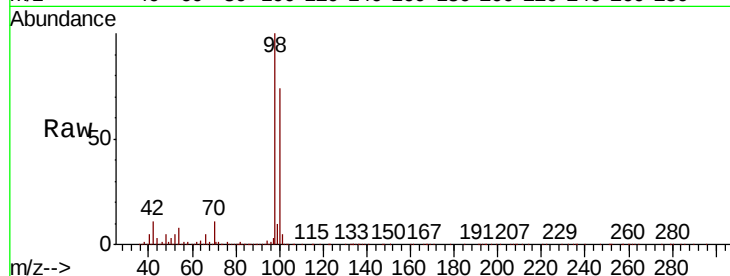
ClientSampleId :

Tot Ion: 98 Resp: 808913

Ion Ratio Lower Upper

98 100

100 74.0 59.8 89.8



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF

7.71

400000

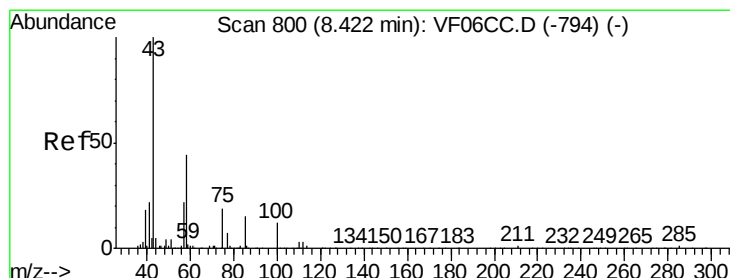
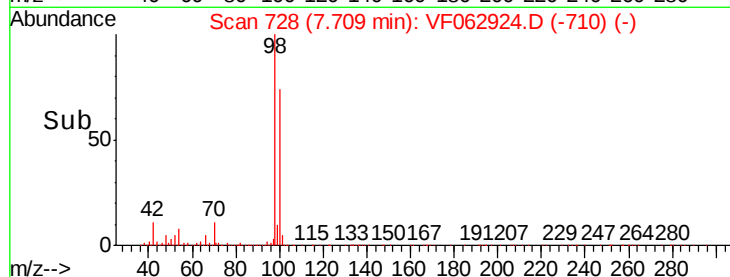
300000

200000

100000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 4.039 ug/l

RT: 8.41 min Scan# 799

Delta R.T. -0.02 min

Lab File: VF062924.D

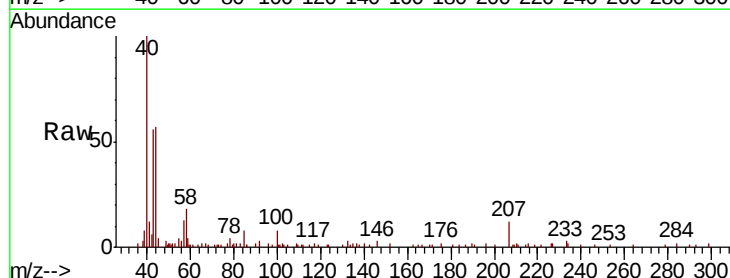
Acq: 12 Jun 2019 13:41

Tgt Ion: 43 Resp: 16324

Ion Ratio Lower Upper

43 100

58 33.2 35.5 53.3#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

8.41

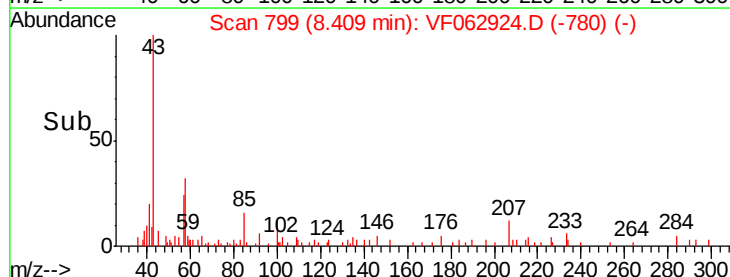
6000

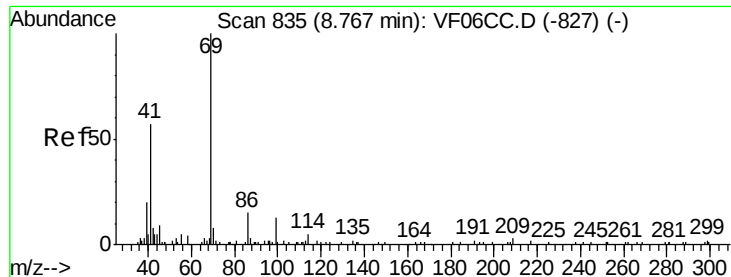
4000

2000

0

Time-->





#56

Ethyl methacrylate

Concen: 1.257 ug/l

RT: 8.76 min Scan# 835

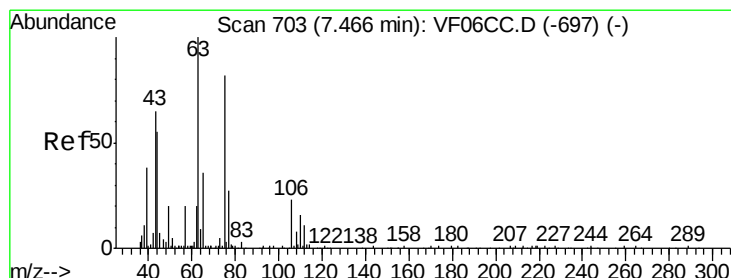
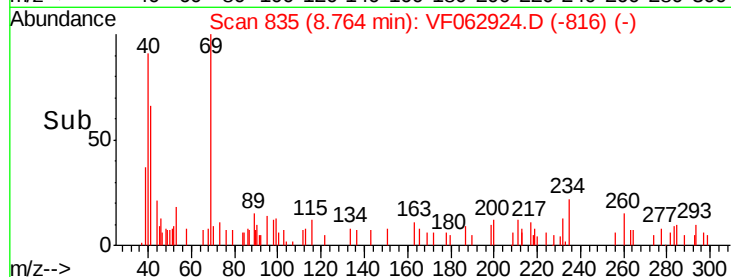
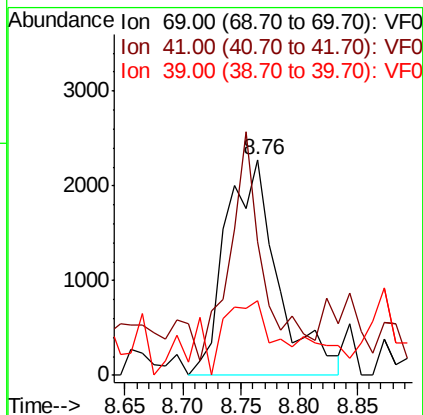
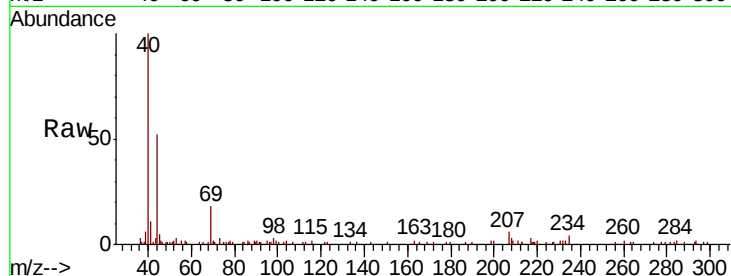
Delta R.T. -0.02 min

Lab File: VF062924.D

Acq: 12 Jun 2019 13:41

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:	69	Resp:	7078
Ion	Ratio	Lower	Upper
69	100		
41	61.7	46.6	69.8
39	34.4	19.6	29.4#



#58

2-Chloroethyl Vinyl ether

Concen: 1.534 ug/l

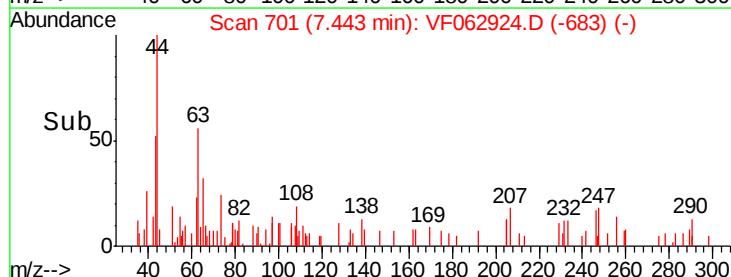
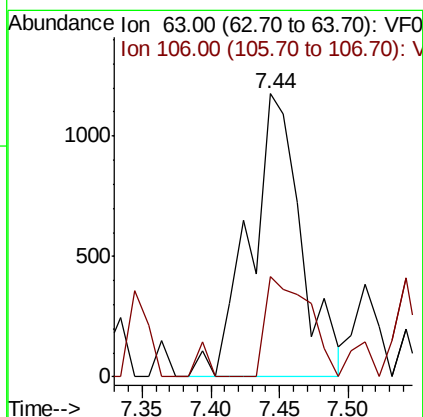
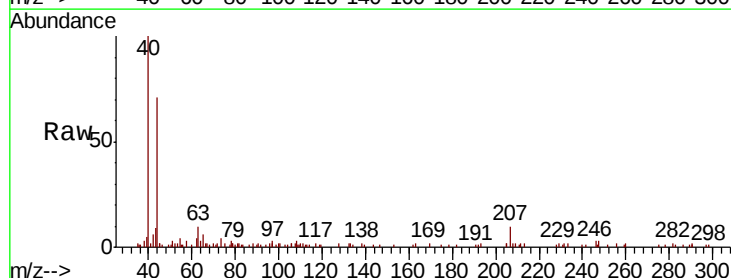
RT: 7.44 min Scan# 701

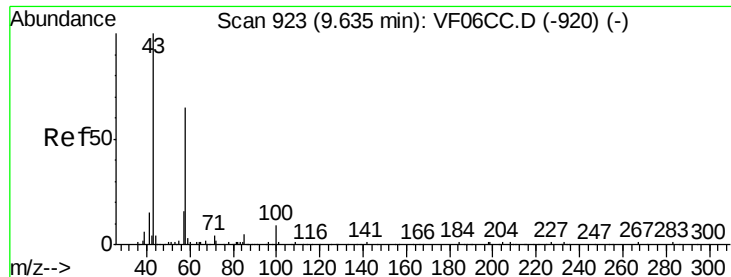
Delta R.T. -0.03 min

Lab File: VF062924.D

Acq: 12 Jun 2019 13:41

Tgt Ion:	63	Resp:	3019
Ion	Ratio	Lower	Upper
63	100		
106	35.7	19.5	29.3#

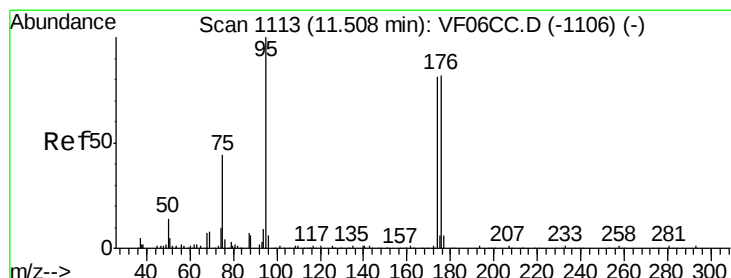
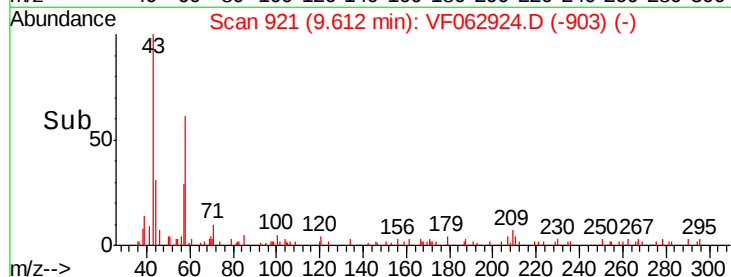
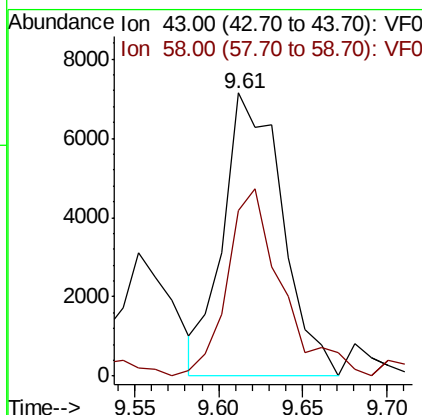
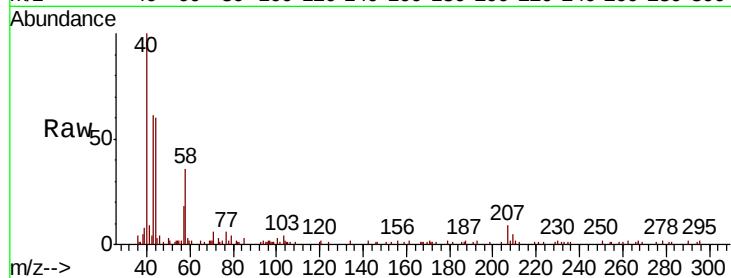




#59
2-Hexanone
Concen: 6.039 ug/l
RT: 9.61 min Scan# 921
Delta R.T. -0.03 min
Lab File: VF062924.D
Acq: 12 Jun 2019 13:41

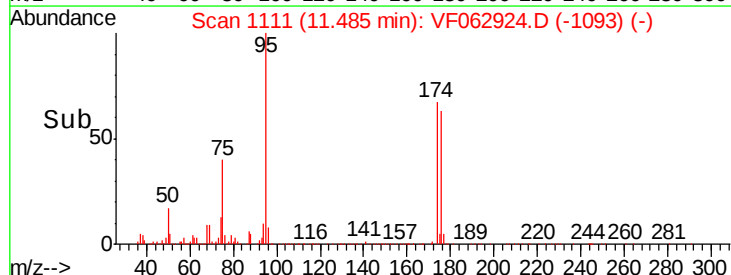
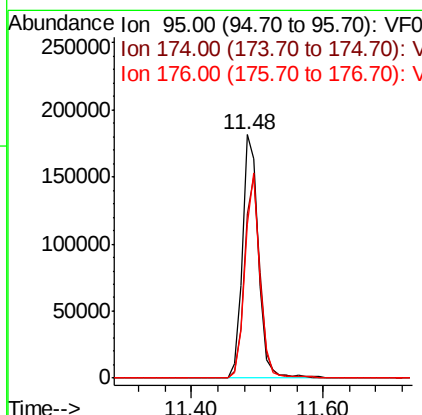
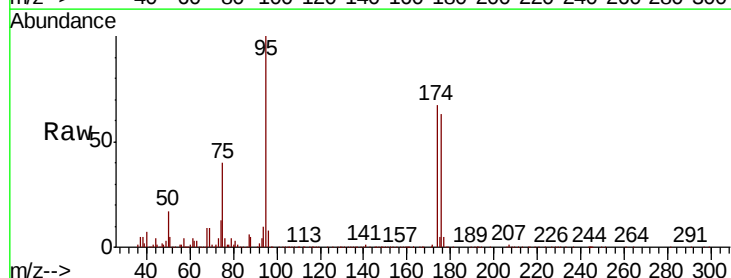
Instrument :
MSVOA_F
ClientSampleId :

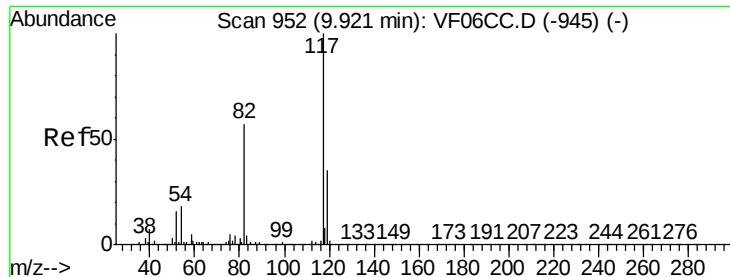
Tot Ion: 43 Resp: 17396
Ion Ratio Lower Upper
43 100
58 58.4 29.3 87.9



#62
4-Bromofluorobenzene
Concen: 37.253 ug/l
RT: 11.48 min Scan# 1111
Delta R.T. -0.03 min
Lab File: VF062924.D
Acq: 12 Jun 2019 13:41

Tgt Ion: 95 Resp: 311803
Ion Ratio Lower Upper
95 100
174 67.2 0.0 170.6
176 63.2 0.0 170.6

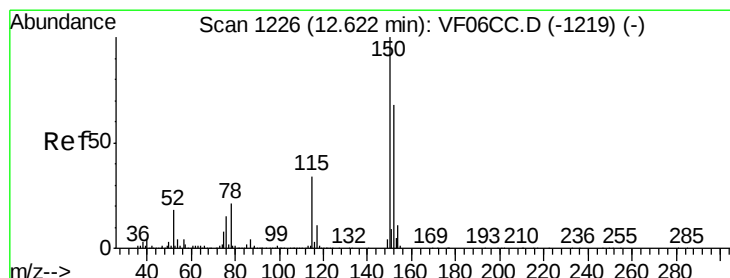
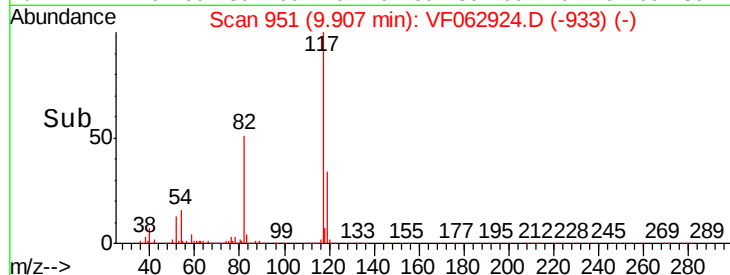
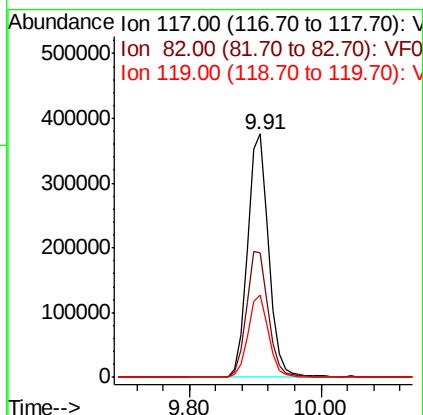
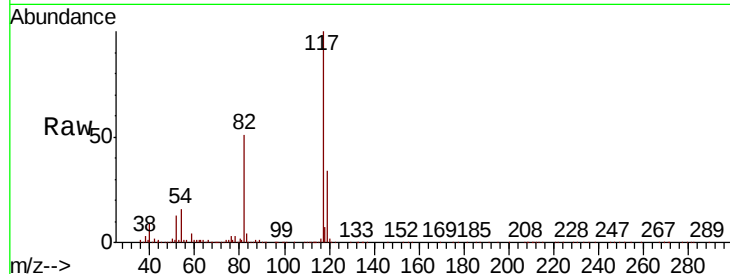




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.91 min Scan# 951
Delta R.T. -0.03 min
Lab File: VF062924.D
Acq: 12 Jun 2019 13:41

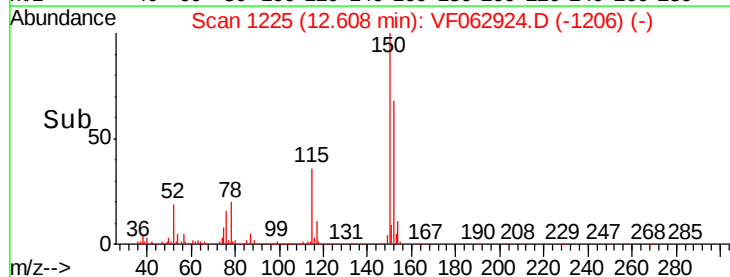
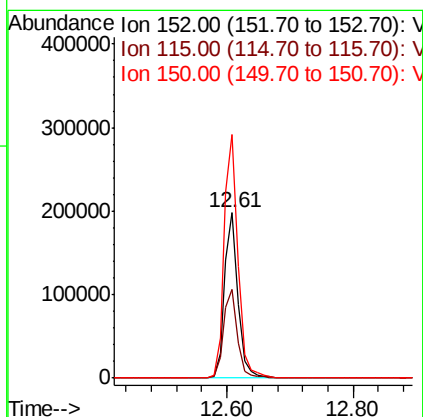
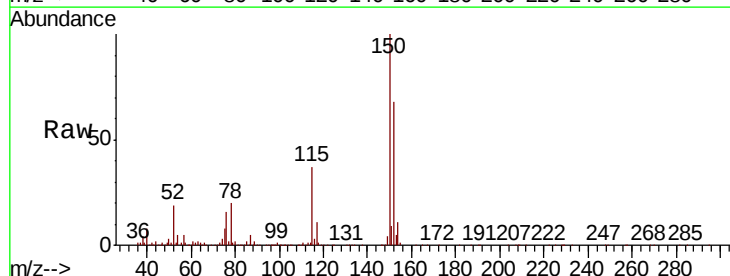
Instrument :
MSVOA_F
ClientSampleId :

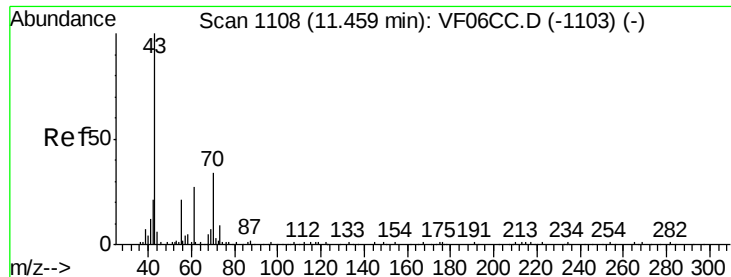
Tot Ion	Ratio	Lower	Upper
117	100		
82	51.0	42.4	63.6
119	33.8	27.1	40.7



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.61 min Scan# 1225
Delta R.T. -0.02 min
Lab File: VF062924.D
Acq: 12 Jun 2019 13:41

Tgt Ion	Ratio	Lower	Upper
152	100		
115	53.8	24.6	74.0
150	147.2	0.0	290.6





#74

N-amvl acetate

Concen: 3.245 ug/l

RT: 11.45 min Scan# 1107

Delta R.T. -0.02 min

Lab File: VF062924.D

Acq: 12 Jun 2019 13:41

Instrument :

MSVOA_F

ClientSampleId :

Tot Ion: 43 Resp: 18862

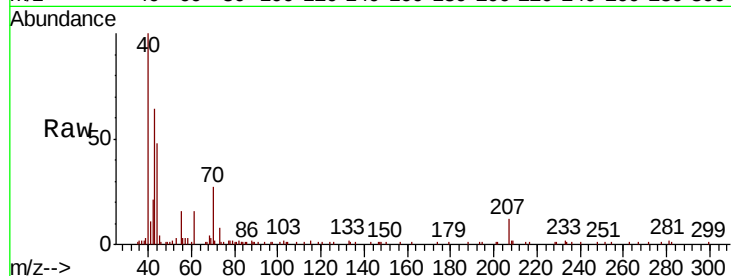
Ion Ratio Lower Upper

43 100

70 42.6 32.9 49.3

55 25.4 17.3 25.9

61 24.9 23.7 35.5

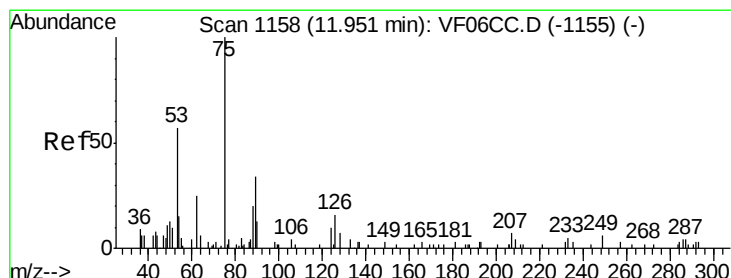
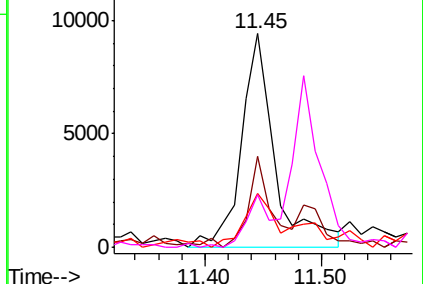
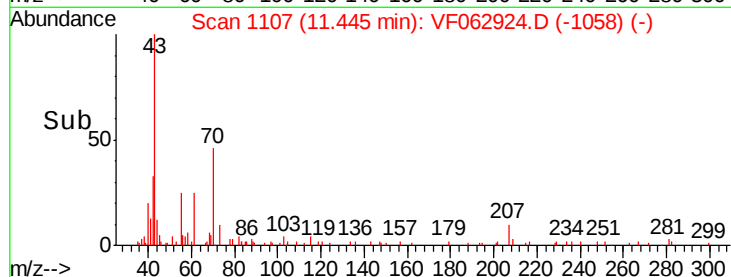


Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 70.00 (69.70 to 70.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 61.00 (60.70 to 61.70): VF0



#81

trans-1,4-Dichloro-2-butene

Concen: 1.268 ug/l

RT: 11.95 min Scan# 1158

Delta R.T. -0.01 min

Lab File: VF062924.D

Acq: 12 Jun 2019 13:41

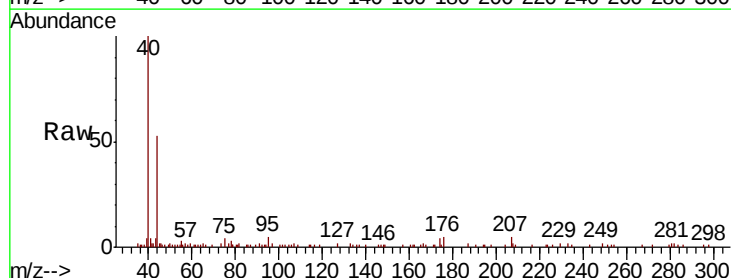
Tgt Ion: 75 Resp: 1568

Ion Ratio Lower Upper

75 100

53 20.1 43.5 65.3#

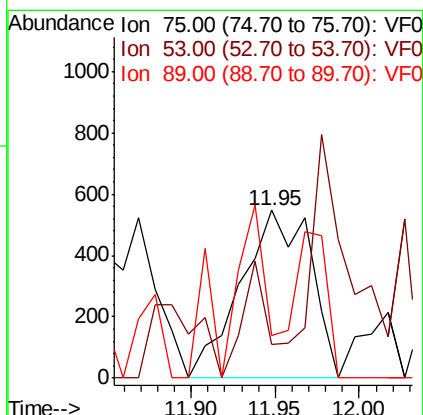
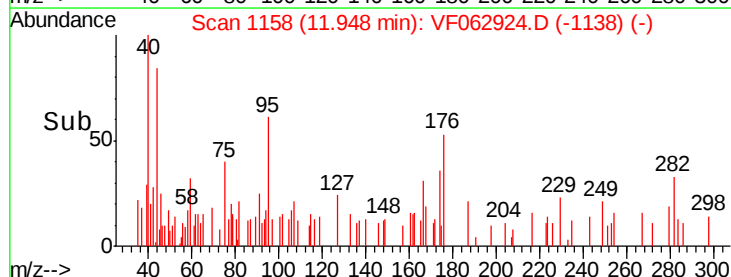
89 25.8 34.3 51.5#

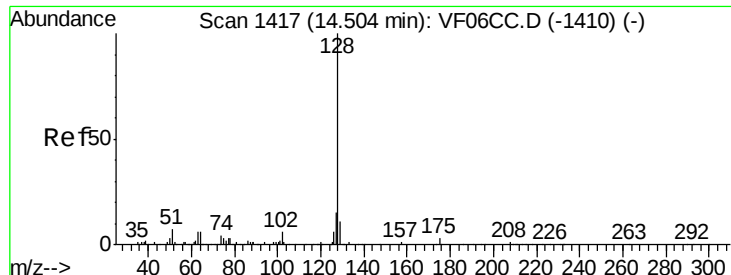


Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 53.00 (52.70 to 53.70): VF0

Ion 89.00 (88.70 to 89.70): VF0

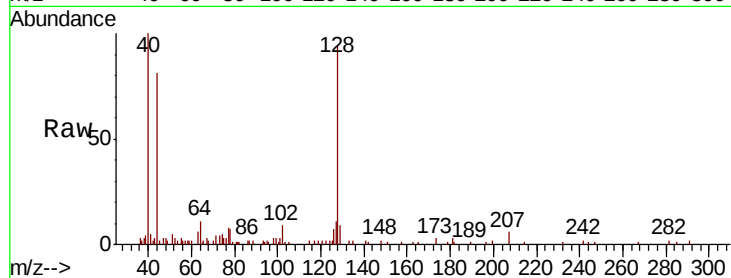




#95
Naphthalene
Concen: 1.548 ug/l
RT: 14.49 min Scan# 1416
Delta R.T. -0.02 min
Lab File: VF062924.D
Acq: 12 Jun 2019 13:41

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
128	100		
127	11.9	9.7	14.5
129	10.1	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

