

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF032219\
 Data File : VF062090.D
 Acq On : 22 Mar 2019 18:48
 Operator : VA/AP
 Sample : K2043-06
 Misc : 5.76g/5mL/MSVOA-F/SOIL
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 WP022SB429-190319-(23-25)

Quant Time: Mar 23 04:15:40 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F032219S.M
 Quant Title : SW846 8260
 QLast Update : Sat Mar 23 01:16:37 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.90	168	230821	50.00	ug/l	-0.01
34) 1,4-Difluorobenzene	5.63	114	368917	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.81	117	318857	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.57	152	170915	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.88	65	93508	54.46	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	108.92%	
35) Dibromofluoromethane	4.14	113	125633	50.34	ug/l	-0.01
Spiked Amount				50.000		
			Recovery	=	100.68%	
50) Toluene-d8	7.58	98	328987	44.16	ug/l	-0.01
Spiked Amount				50.000		
			Recovery	=	88.32%	
62) 4-Bromofluorobenzene	11.43	95	150234	52.24	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	104.48%	

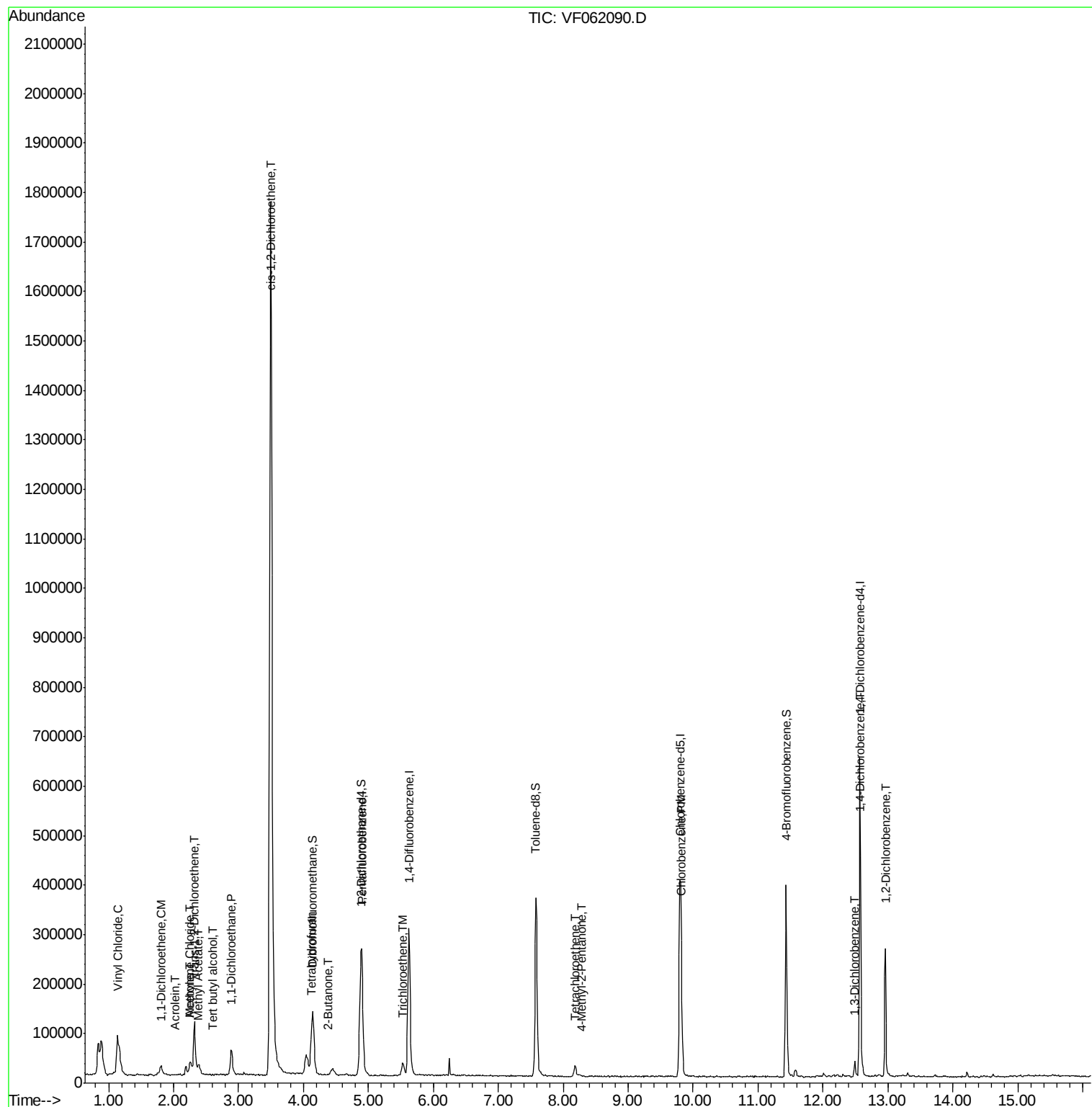
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Vinyl Chloride	1.14	62	171268	59.843	ug/l	97
11) Tert butyl alcohol	2.61	59	519	5.494	ug/l #	66
12) 1,1-Dichloroethene	1.80	96	13053	5.867	ug/l	88
13) Acrolein	2.04	56	127	1.118	ug/l #	49
16) Acetone	2.24	43	17371	48.074	ug/l	95
18) Methyl Acetate	2.39	43	5577	6.470	ug/l #	56
20) Methylene Chloride	2.26	84	15628	4.255	ug/l	89
21) trans-1,2-Dichloroethene	2.32	96	55064	25.722	ug/l	87
24) 1,1-Dichloroethane	2.89	63	66326	17.759	ug/l	98
25) 2-Butanone	4.37	43	1957	2.594	ug/l #	55
27) cis-1,2-Dichloroethene	3.50	96	1226906	432.502	ug/l	98
29) Tetrahydrofuran	4.11	42	1246	3.799	ug/l #	83
44) Trichloroethene	5.53	130	13105	4.550	ug/l	94
51) 4-Methyl-2-Pentanone	8.29	43	1648	1.324	ug/l	98
64) Tetrachloroethene	8.18	164	7977	3.238	ug/l	96
65) Chlorobenzene	9.83	112	42528	7.128	ug/l	94
87) 1,3-Dichlorobenzene	12.50	146	15059	2.759	ug/l	97
88) 1,4-Dichlorobenzene	12.59	146	26830	5.037	ug/l	95
91) 1,2-Dichlorobenzene	12.96	146	109113	21.286	ug/l	97

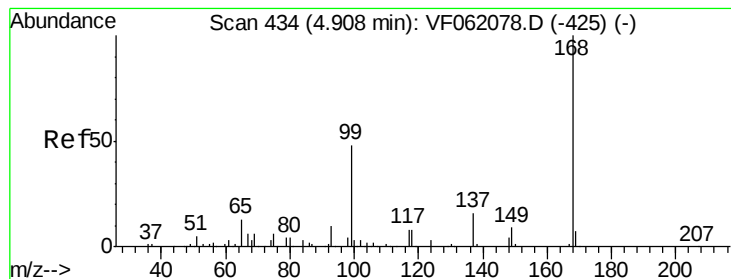
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.90 min Scan# 433

Delta R.T. -0.01 min

Lab File: VF062090.D

Acq: 22 Mar 2019 18:48

Instrument :

MSVOA_F

ClientSampleId :

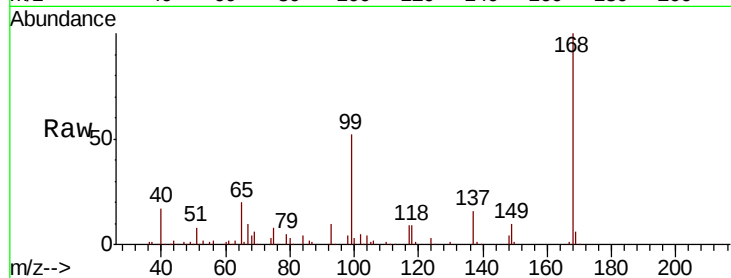
WP022SB429-190319-(23-25)

Tot Ion:168 Resp: 230821

Ion Ratio Lower Upper

168 100

99 52.2 38.2 57.4



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.90

80000

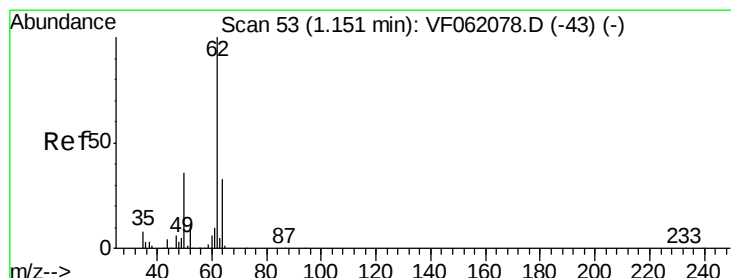
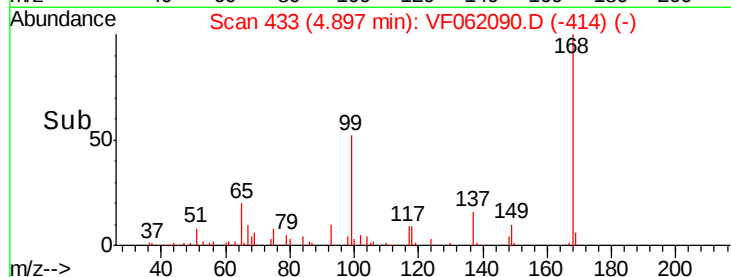
60000

40000

20000

0

Time--> 4.70 4.80 4.90 5.00 5.10



#4

Vinyl Chloride

Concen: 59.843 ug/l

RT: 1.14 min Scan# 52

Delta R.T. -0.01 min

Lab File: VF062090.D

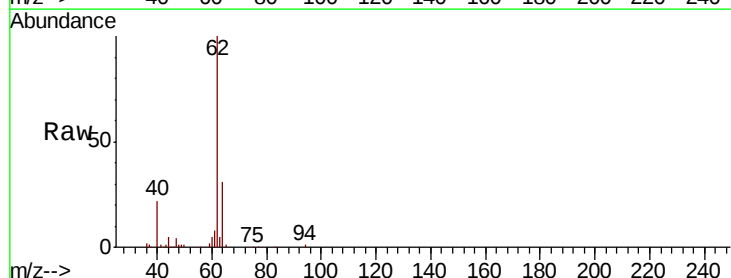
Acq: 22 Mar 2019 18:48

Tgt Ion: 62 Resp: 171268

Ion Ratio Lower Upper

62 100

64 30.8 26.2 39.2



Abundance Ion 62.00 (61.70 to 62.70): VF0

Ion 64.00 (63.70 to 64.70): VF0

1.14

50000

40000

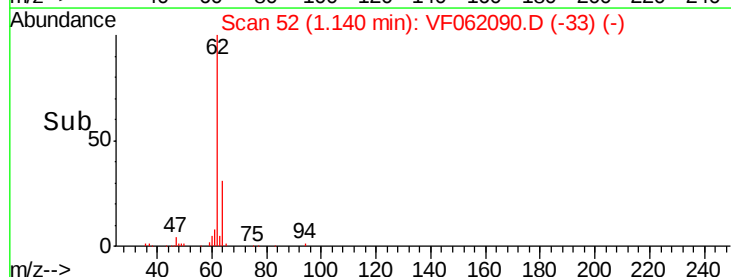
30000

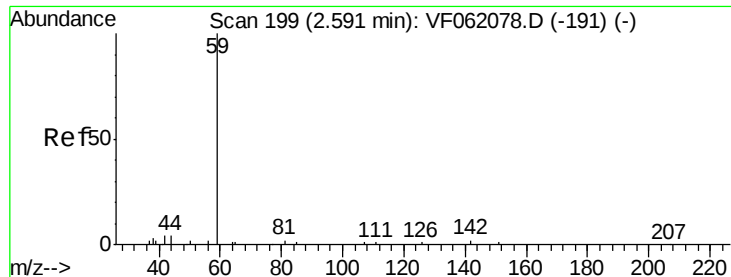
20000

10000

0

Time--> 1.00 1.10 1.20 1.30 1.40



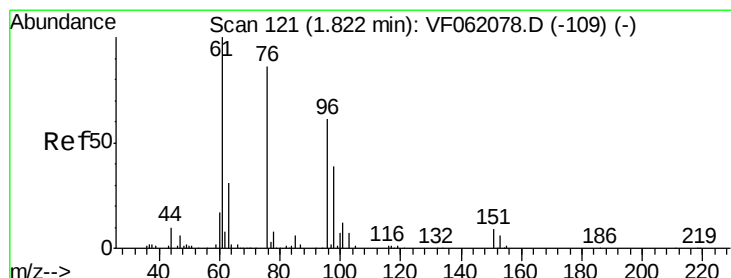
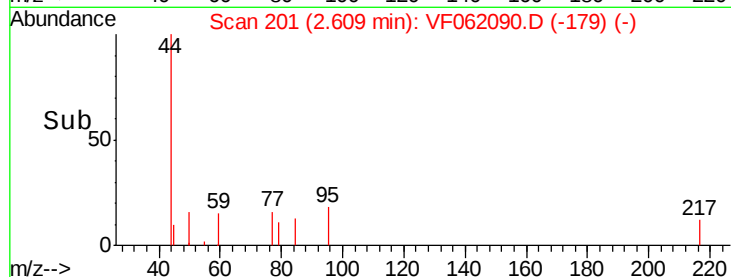
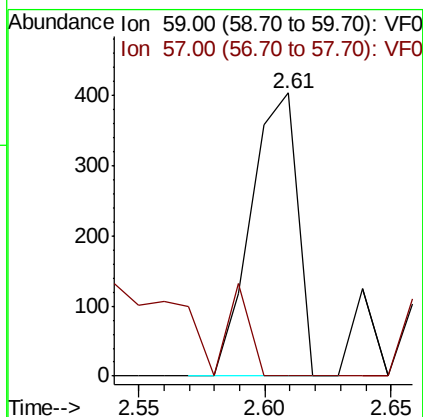
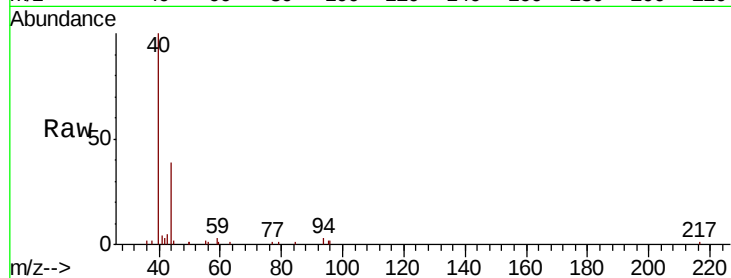


#11

Tert butyl alcohol
Concen: 5.494 ug/l
RT: 2.61 min Scan# 201
Delta R.T. 0.02 min
Lab File: VF062090.D
Acq: 22 Mar 2019 18:48

Instrument :
MSVOA_F
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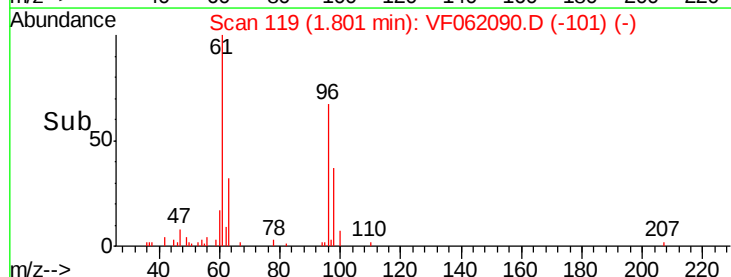
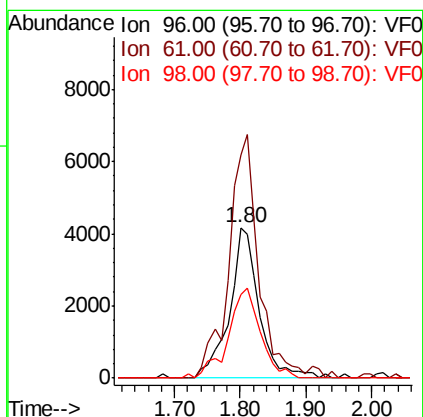
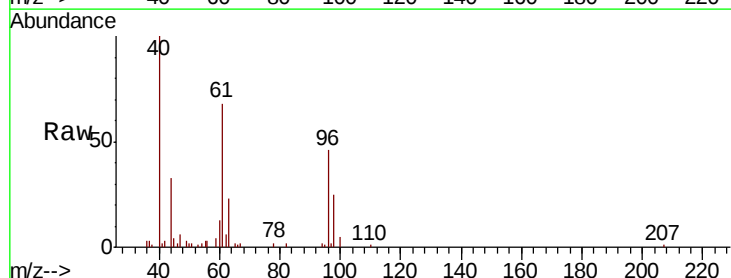
Tot Ion: 59 Resp: 519
Ion Ratio Lower Upper
59 100
57 0.0 11.0 16.4#

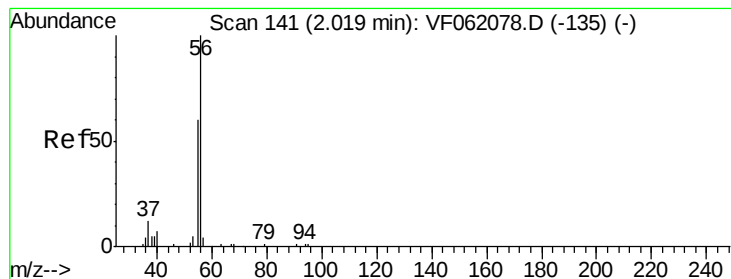


#12

1,1-Dichloroethene
Concen: 5.867 ug/l
RT: 1.80 min Scan# 119
Delta R.T. -0.02 min
Lab File: VF062090.D
Acq: 22 Mar 2019 18:48

Tgt Ion: 96 Resp: 13053
Ion Ratio Lower Upper
96 100
61 148.3 131.0 196.6
98 55.3 51.5 77.3





#13

Acrolein

Concen: 1.118 ug/l

RT: 2.04 min Scan# 143

Delta R.T. 0.02 min

Lab File: VF062090.D

Acq: 22 Mar 2019 18:48

Instrument :

MSVOA_F

ClientSampleId :

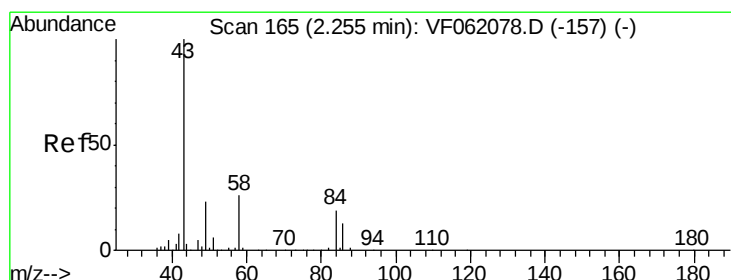
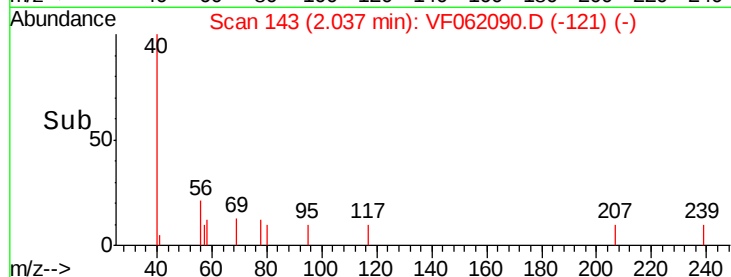
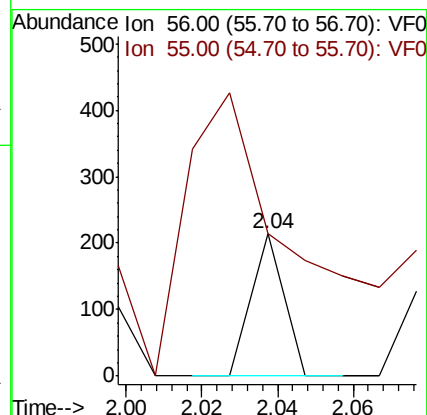
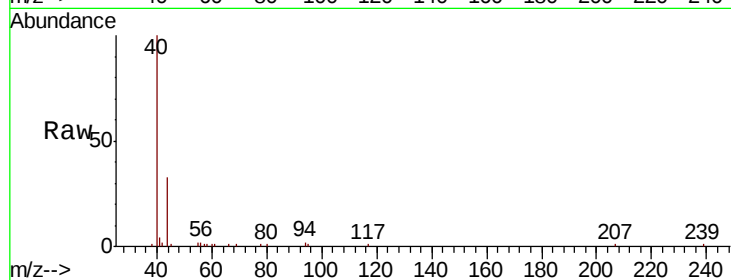
WP022SB429-190319-(23-25)

Tot Ion: 56 Resp: 127

Ion Ratio Lower Upper

56 100

55 100.5 49.0 73.4#



#16

Acetone

Concen: 48.074 ug/l

RT: 2.24 min Scan# 164

Delta R.T. -0.01 min

Lab File: VF062090.D

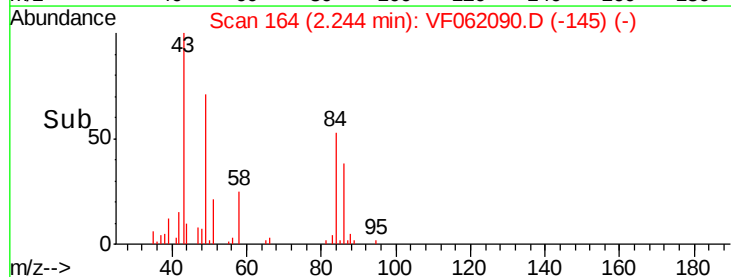
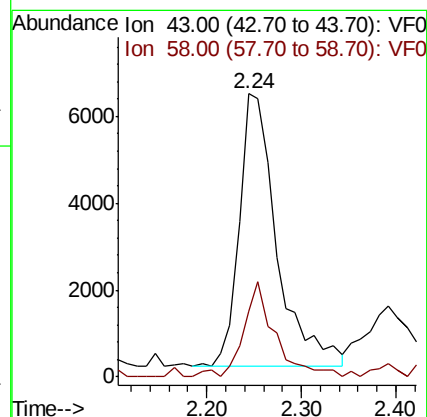
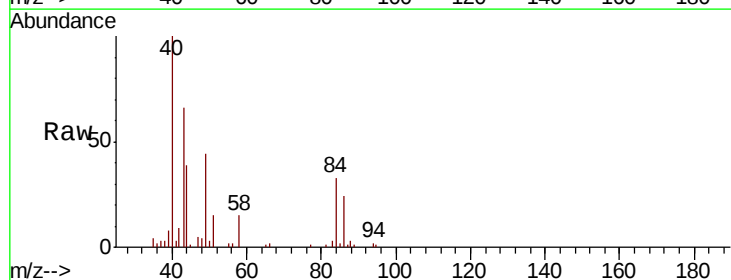
Acq: 22 Mar 2019 18:48

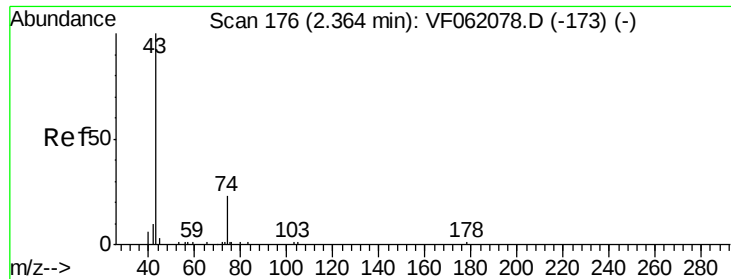
Tgt Ion: 43 Resp: 17371

Ion Ratio Lower Upper

43 100

58 23.3 20.8 31.2

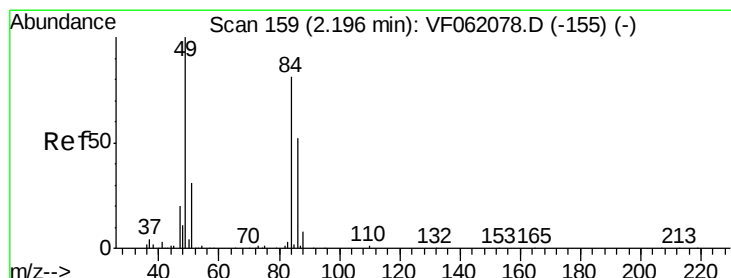
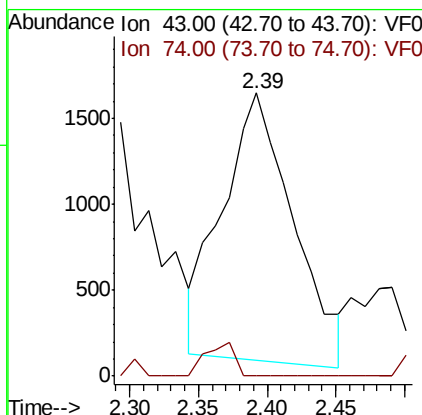
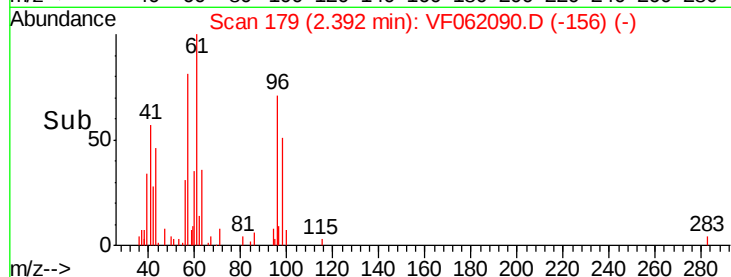
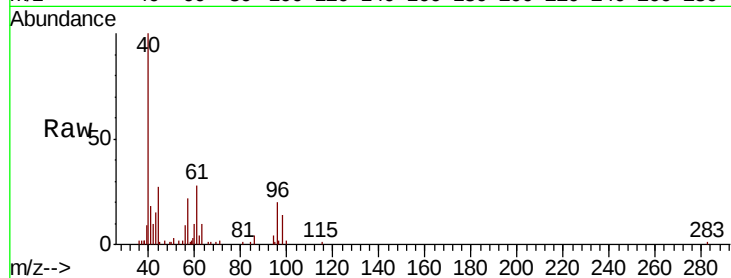




#18
Methyl Acetate
Concen: 6.470 ug/l
RT: 2.39 min Scan# 179
Delta R.T. 0.03 min
Lab File: VF062090.D
Acq: 22 Mar 2019 18:48

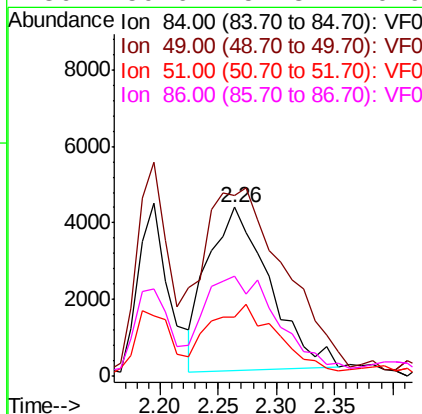
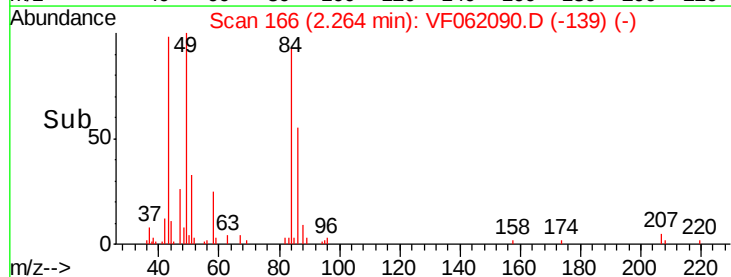
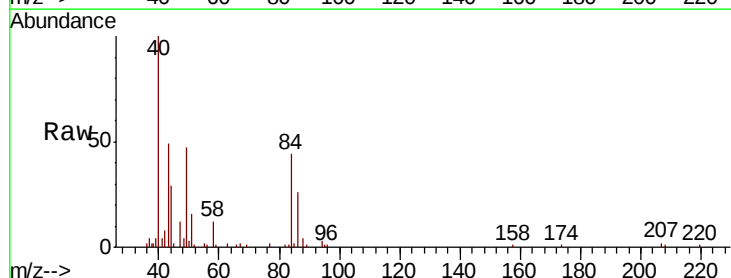
Instrument :
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WP022SB429-190319-(23-25)

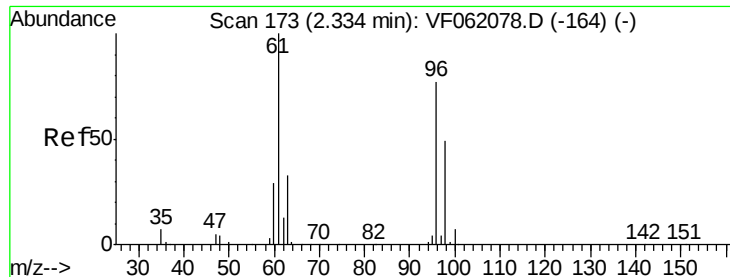
Tot Ion: 43 Resp: 5577
Ion Ratio Lower Upper
43 100
74 0.0 16.3 24.5#



#20
Methylene Chloride
Concen: 4.255 ug/l
RT: 2.26 min Scan# 166
Delta R.T. 0.07 min
Lab File: VF062090.D
Acq: 22 Mar 2019 18:48

Tgt Ion: 84 Resp: 15628
Ion Ratio Lower Upper
84 100
49 107.5 100.4 150.6
51 35.3 31.0 46.6
86 59.6 51.3 76.9





#21

trans-1,2-Dichloroethene

Concen: 25.722 ug/l

RT: 2.32 min Scan# 172

Delta R.T. -0.01 min

Lab File: VF062090.D

Acq: 22 Mar 2019 18:48

Instrument :

MSVOA_F

ClientSampleId :

WP022SB429-190319-(23-25)

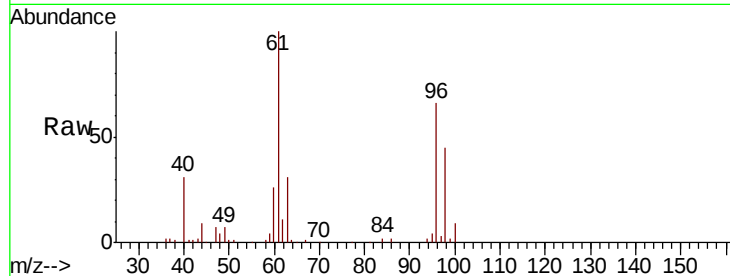
Tot Ion: 96 Resp: 55064

Ion Ratio Lower Upper

96 100

61 150.9 104.5 156.7

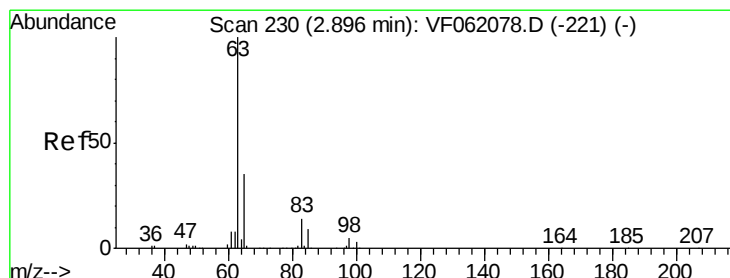
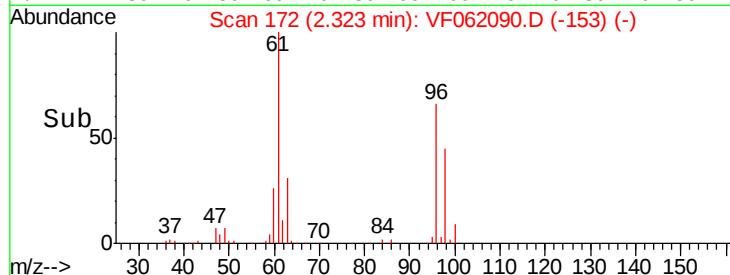
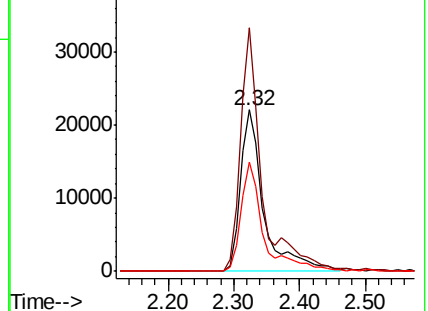
98 67.7 51.2 76.8



Abundance Ion 96.00 (95.70 to 96.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 98.00 (97.70 to 98.70): VF0



#24

1,1-Dichloroethane

Concen: 17.759 ug/l

RT: 2.89 min Scan# 229

Delta R.T. -0.01 min

Lab File: VF062090.D

Acq: 22 Mar 2019 18:48

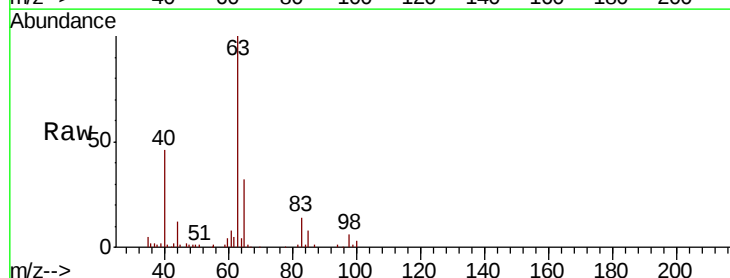
Tgt Ion: 63 Resp: 66326

Ion Ratio Lower Upper

63 100

98 6.1 2.7 8.1

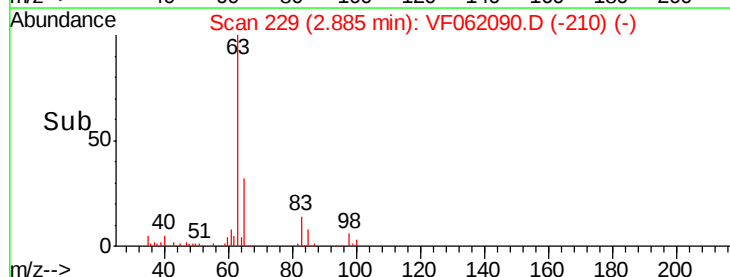
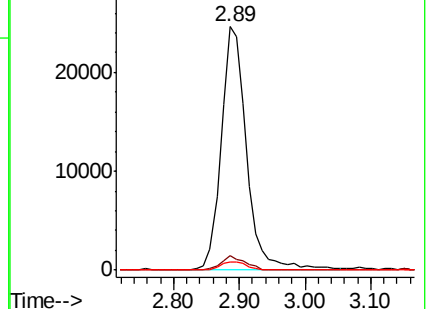
100 3.1 1.7 5.1

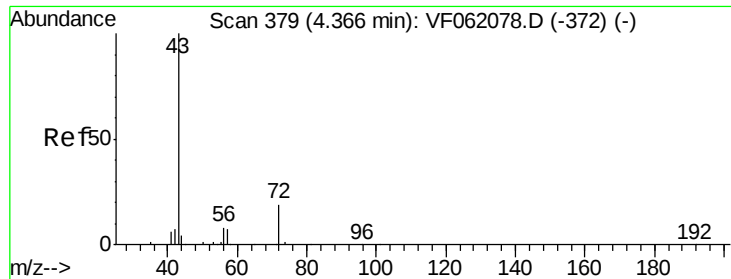


Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0





#25

2-Butanone

Concen: 2.594 ug/l

RT: 4.37 min Scan# 380

Delta R.T. 0.01 min

Lab File: VF062090.D

Acq: 22 Mar 2019 18:48

Instrument :

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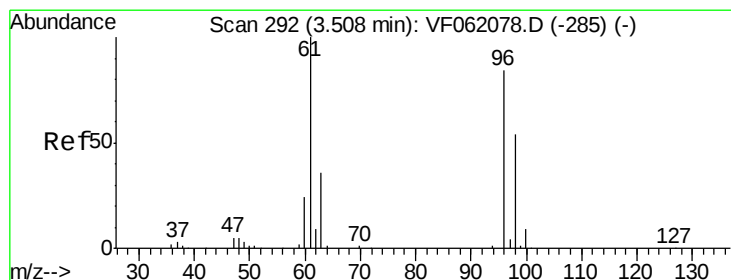
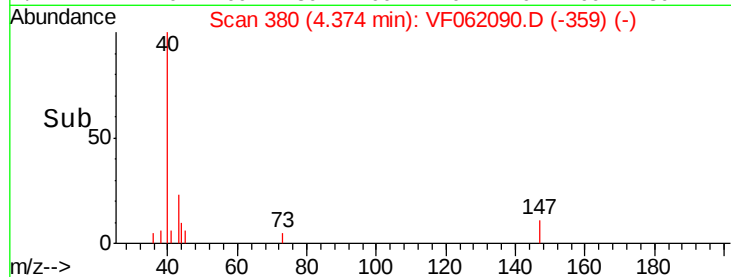
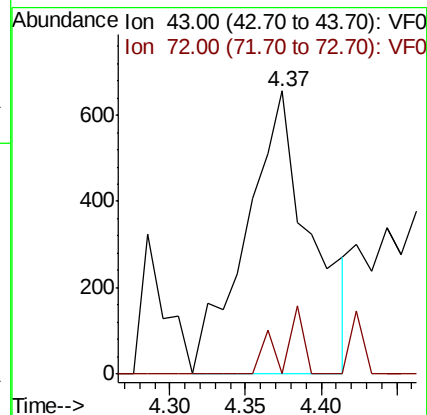
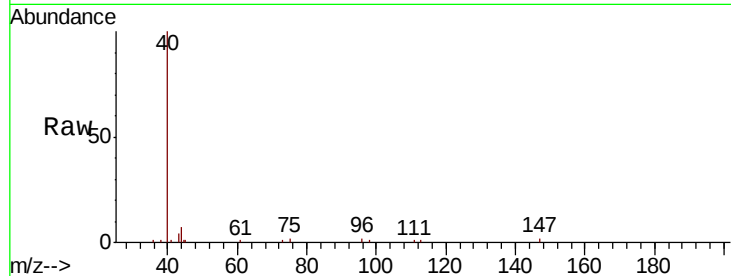
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Tot Ion: 43 Resp: 1957

Ion Ratio Lower Upper

43 100

72 0.0 16.7 25.1#



#27

cis-1,2-Dichloroethene

Concen: 432.502 ug/l

RT: 3.50 min Scan# 291

Delta R.T. -0.01 min

Lab File: VF062090.D

Acq: 22 Mar 2019 18:48

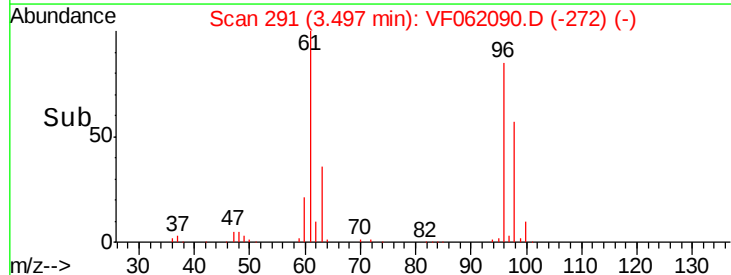
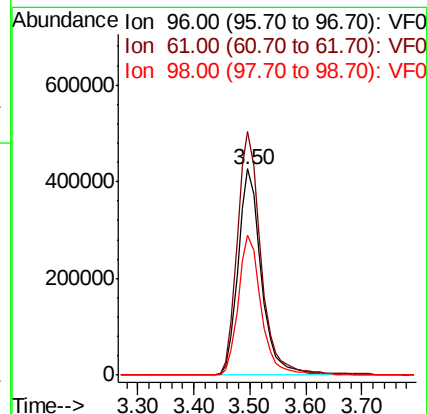
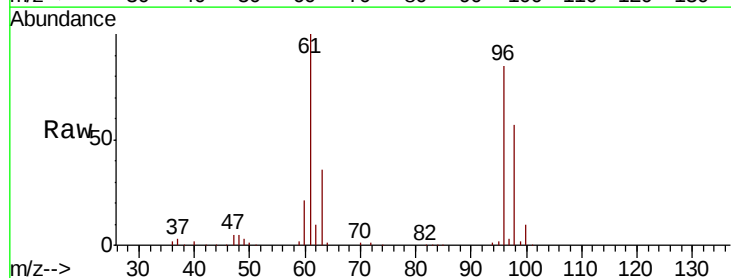
Tgt Ion: 96 Resp: 1226906

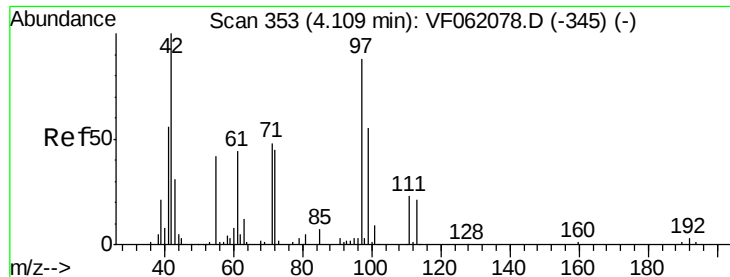
Ion Ratio Lower Upper

96 100

61 118.2 0.0 239.0

98 67.9 0.0 128.2

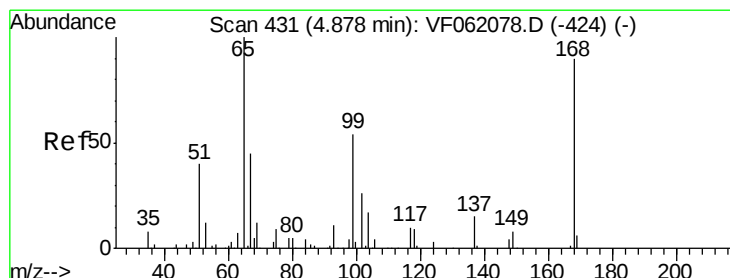
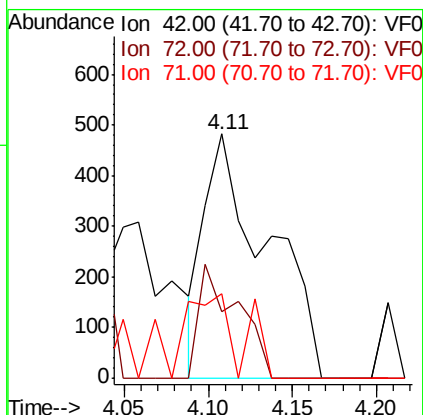
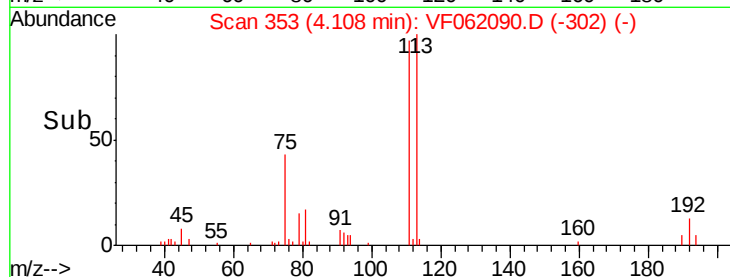
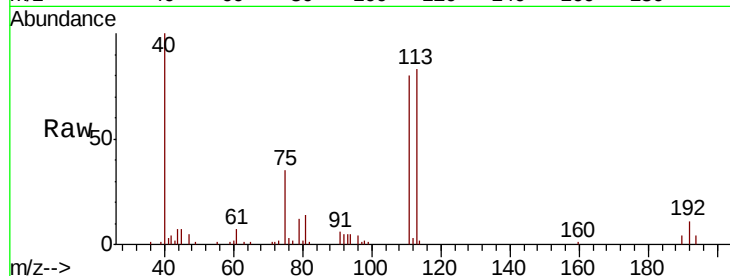




#29
Tetrahydrofuran
Concen: 3.799 ug/l
RT: 4.11 min Scan# 353
Delta R.T. -0.00 min
Lab File: VF062090.D
Acq: 22 Mar 2019 18:48

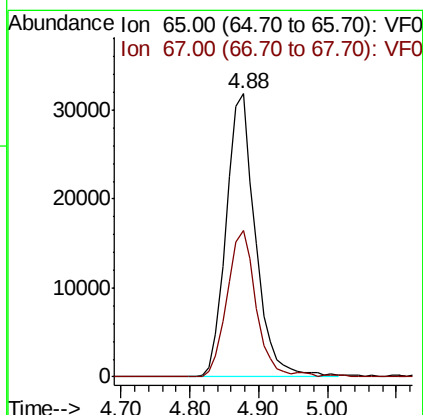
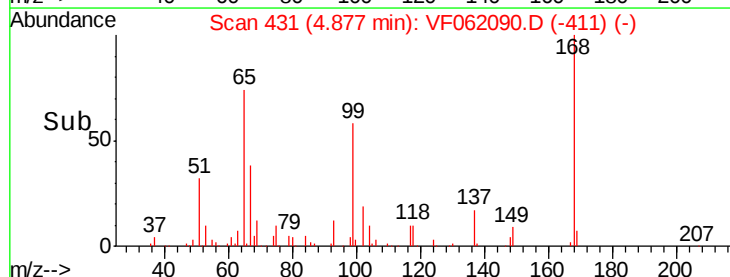
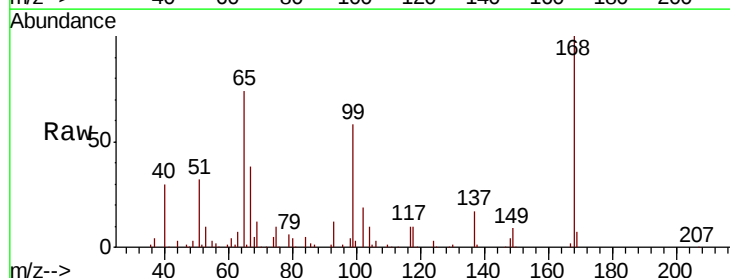
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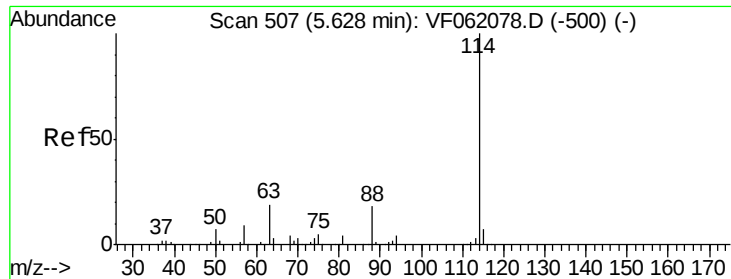
Tot Ion: 42 Resp: 1246
Ion Ratio Lower Upper
42 100
72 29.0 33.3 49.9#
71 34.7 35.0 52.4#



#33
1,2-Dichloroethane-d4
Concen: 54.464 ug/l
RT: 4.88 min Scan# 431
Delta R.T. -0.00 min
Lab File: VF062090.D
Acq: 22 Mar 2019 18:48

Tgt Ion: 65 Resp: 93508
Ion Ratio Lower Upper
65 100
67 51.7 0.0 106.2





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.63 min Scan# 507

Delta R.T. -0.00 min

Lab File: VF062090.D

Acq: 22 Mar 2019 18:48

Instrument :

MSVOA_F

ClientSampleId :

WP022SB429-190319-(23-25)

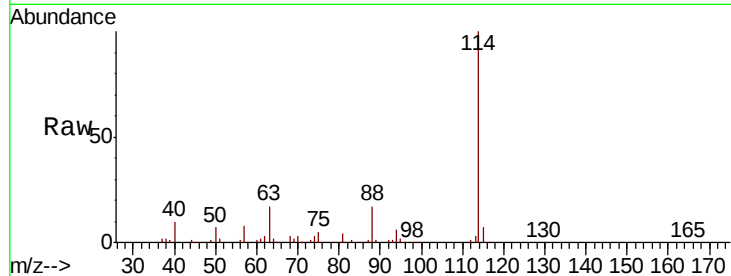
Tot Ion:114 Resp: 368917

Ion Ratio Lower Upper

114 100

63 17.4 0.0 37.8

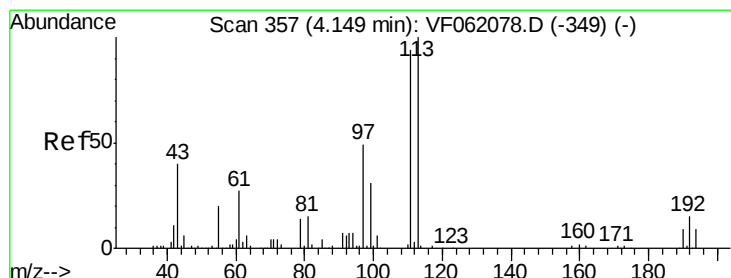
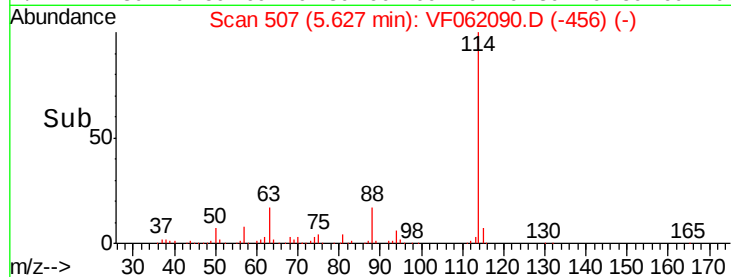
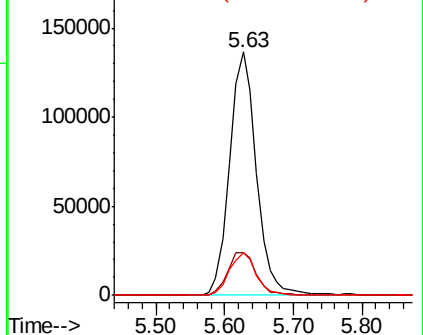
88 17.3 0.0 36.4



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: 50.342 ug/l

RT: 4.14 min Scan# 356

Delta R.T. -0.01 min

Lab File: VF062090.D

Acq: 22 Mar 2019 18:48

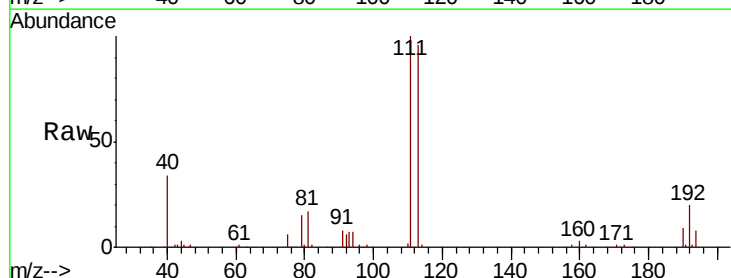
Tgt Ion:113 Resp: 125633

Ion Ratio Lower Upper

113 100

111 103.7 75.4 113.0

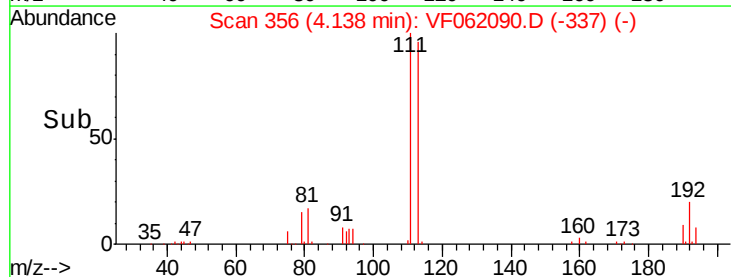
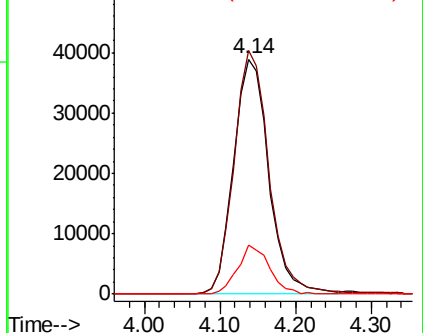
192 20.7 12.3 18.5#

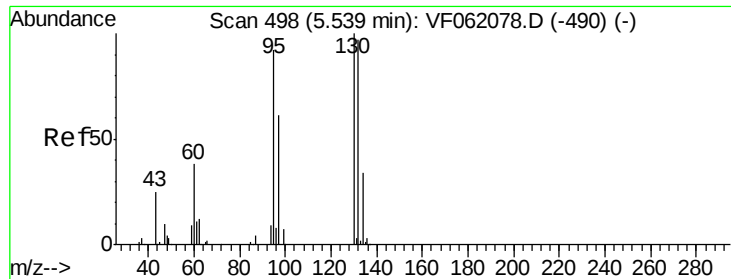


Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V





#44

Trichloroethene

Concen: 4.550 ug/l

RT: 5.53 min Scan# 497

Delta R.T. -0.01 min

Lab File: VF062090.D

Acq: 22 Mar 2019 18:48

Instrument :

MSVOA_F

ClientSampleId :

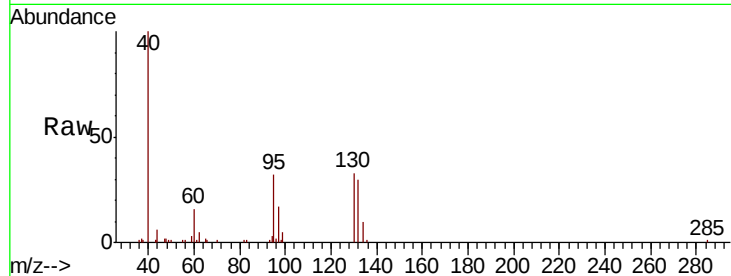
WP022SB429-190319-(23-25)

Tot Ion:130 Resp: 13105

Ion Ratio Lower Upper

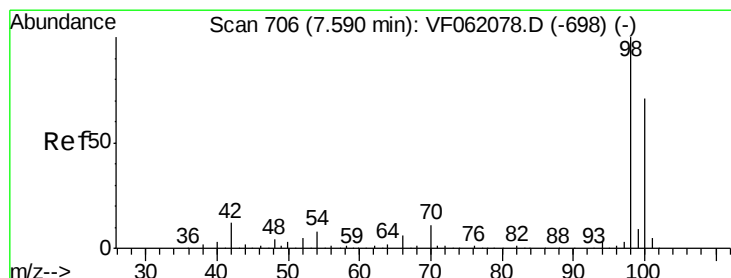
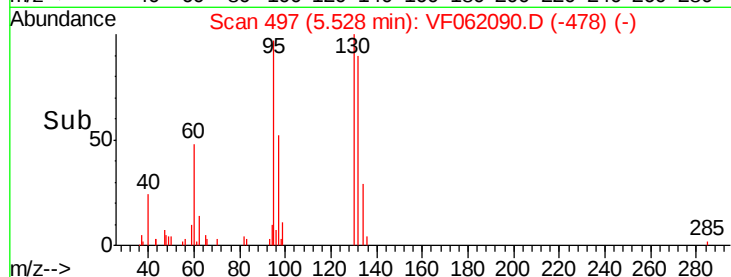
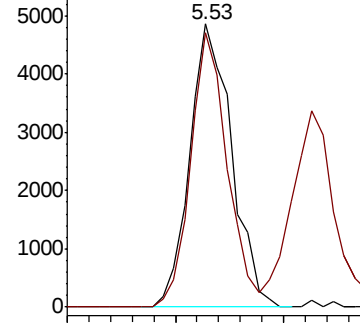
130 100

95 97.0 0.0 183.4



Abundance Ion 129.90 (129.60 to 130.60): V

Ion 94.90 (94.60 to 95.60): VF0



#50

Toluene-d8

Concen: 44.163 ug/l

RT: 7.58 min Scan# 705

Delta R.T. -0.01 min

Lab File: VF062090.D

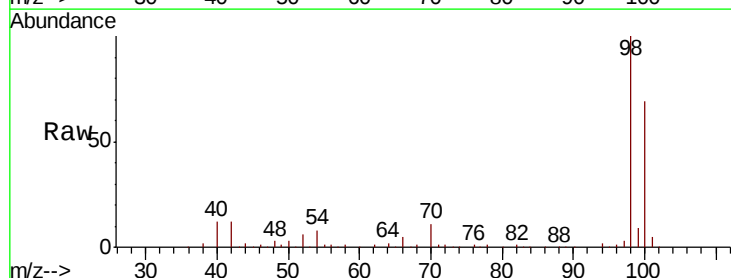
Acq: 22 Mar 2019 18:48

Tgt Ion: 98 Resp: 328987

Ion Ratio Lower Upper

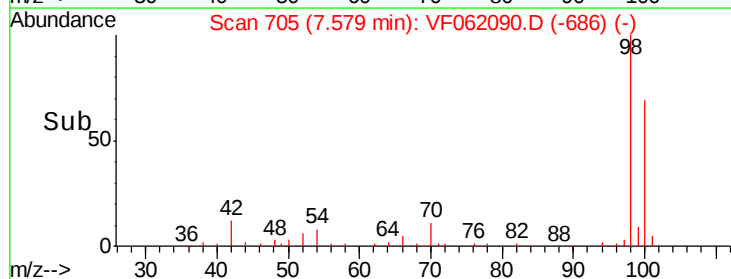
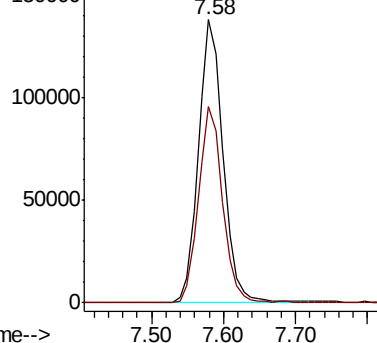
98 100

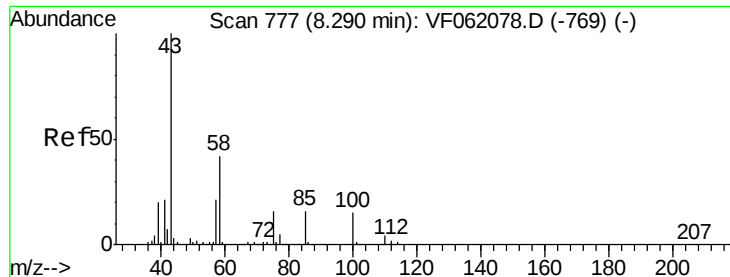
100 69.2 57.0 85.6



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: 1.324 ug/l

RT: 8.29 min Scan# 777

Delta R.T. -0.00 min

Lab File: VF062090.D

Acq: 22 Mar 2019 18:48

Instrument :

MSVOA_F

ClientSampleId :

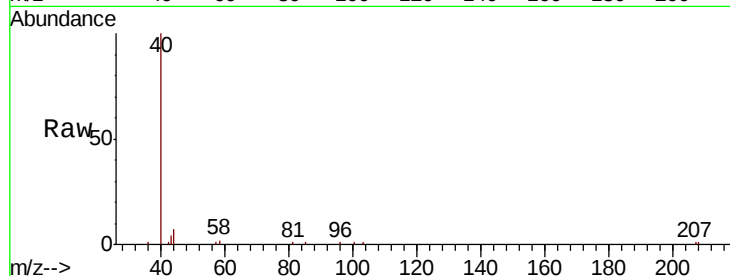
WP022SB429-190319-(23-25)

Tot Ion: 43 Resp: 1648

Ion Ratio Lower Upper

43 100

58 43.6 33.8 50.8



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

8.29

500

400

300

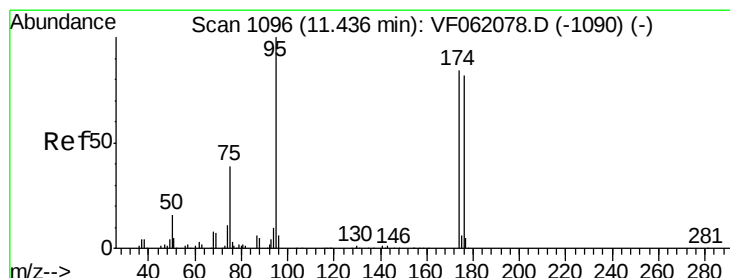
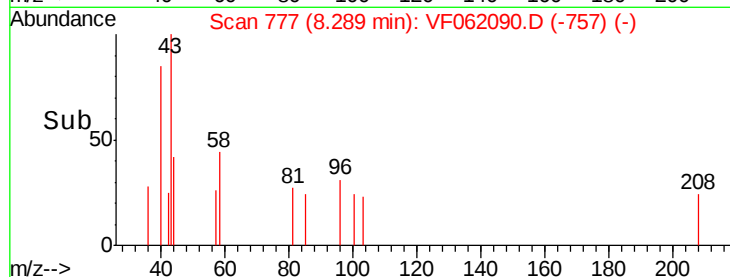
200

100

0

8.20 8.30 8.40

Time-->



#62

4-Bromofluorobenzene

Concen: 52.240 ug/l

RT: 11.43 min Scan# 1096

Delta R.T. -0.00 min

Lab File: VF062090.D

Acq: 22 Mar 2019 18:48

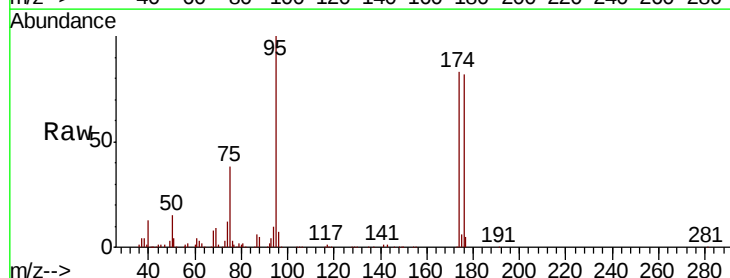
Tgt Ion: 95 Resp: 150234

Ion Ratio Lower Upper

95 100

174 83.2 0.0 168.2

176 81.8 0.0 164.2



Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V

120000

100000

80000

60000

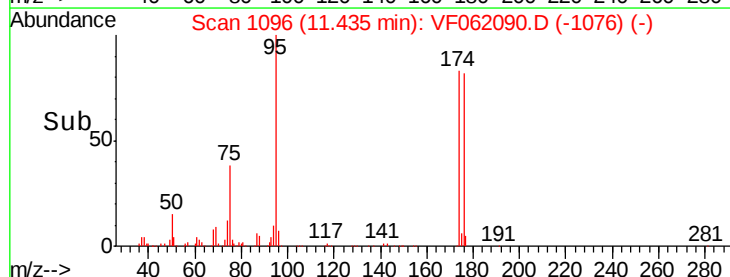
40000

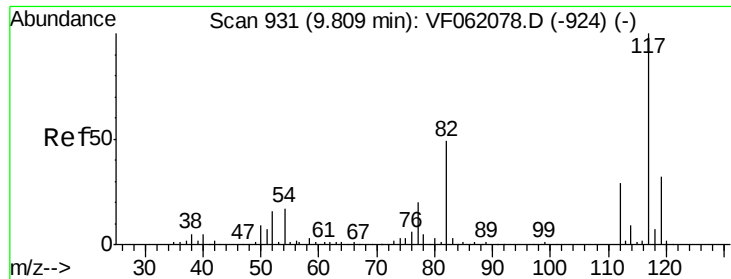
20000

0

11.30 11.40 11.50 11.60

Time-->

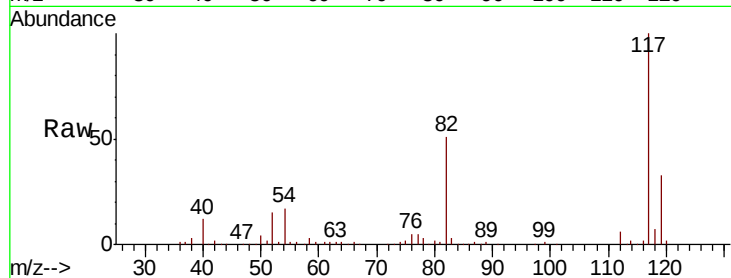




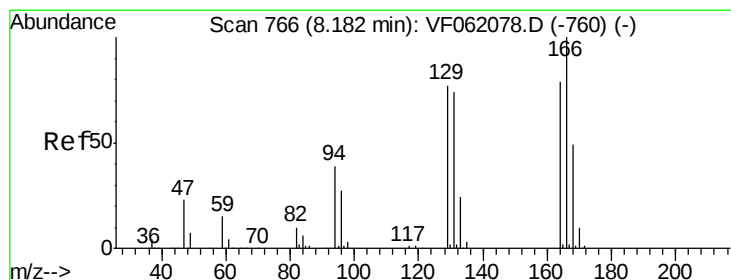
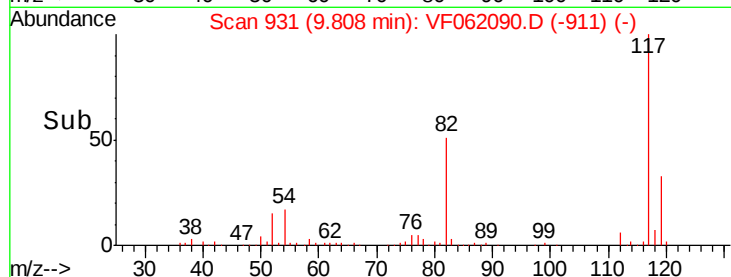
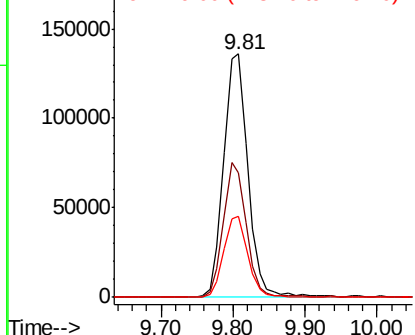
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.81 min Scan# 931
Delta R.T. -0.00 min
Lab File: VF062090.D
Acq: 22 Mar 2019 18:48

Instrument :
MSVOA_F
ClientSampleId :
WP022SB429-190319-(23-25)

Tot Ion:117 Resp: 318857
Ion Ratio Lower Upper
117 100
82 51.1 39.2 58.8
119 33.1 25.4 38.2

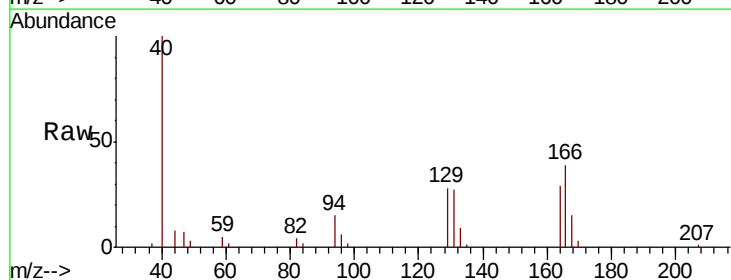


Abundance Ion 117.00 (116.70 to 117.70): V
Ion 82.00 (81.70 to 82.70): VF0
Ion 119.00 (118.70 to 119.70): V

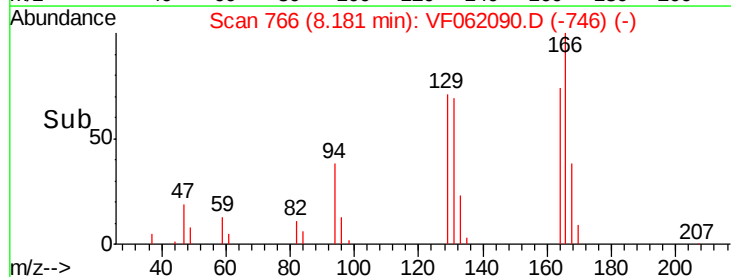
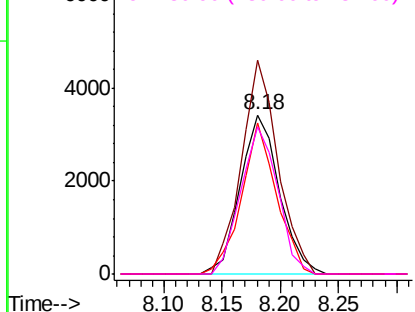


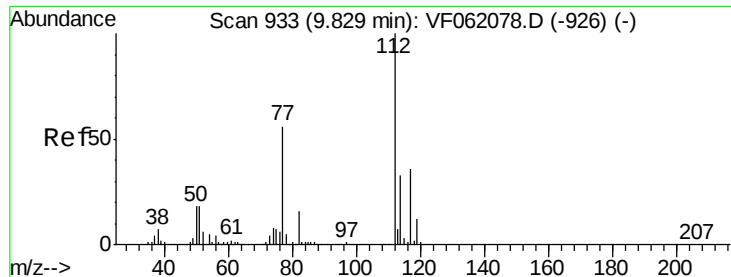
#64
Tetrachloroethene
Concen: 3.238 ug/l
RT: 8.18 min Scan# 766
Delta R.T. -0.00 min
Lab File: VF062090.D
Acq: 22 Mar 2019 18:48

Tgt Ion:164 Resp: 7977
Ion Ratio Lower Upper
164 100
166 134.5 100.9 151.3
129 94.9 77.9 116.9
131 92.4 74.6 112.0



Abundance Ion 163.85 (163.55 to 164.55): V
Ion 165.80 (165.50 to 166.50): V
Ion 128.90 (128.60 to 129.60): V
Ion 130.90 (130.60 to 131.60): V

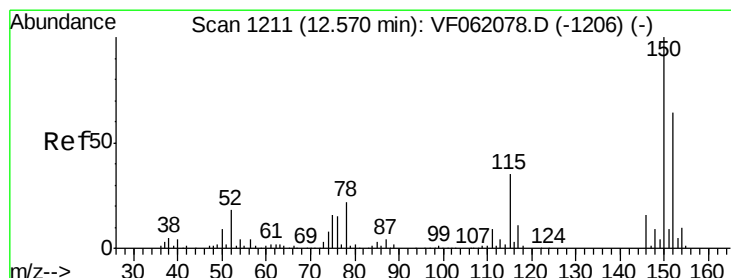
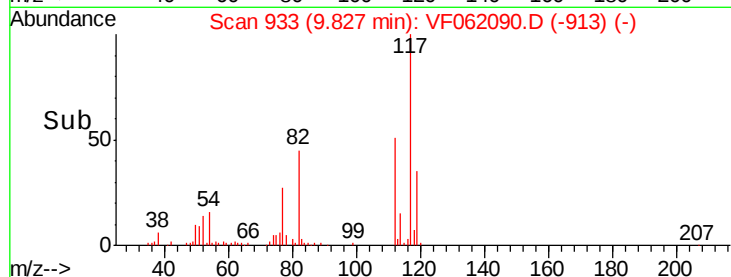
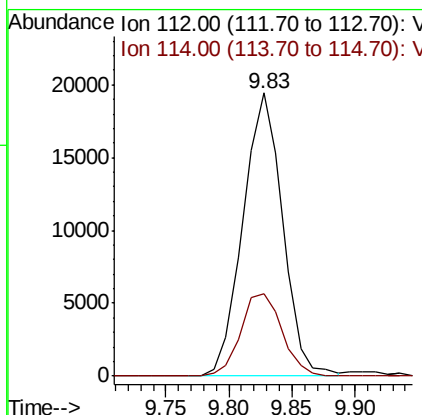
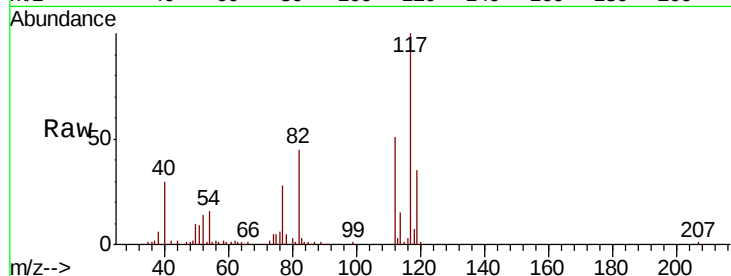




#65
Chlorobenzene
Concen: 7.128 ug/l
RT: 9.83 min Scan# 933
Delta R.T. -0.00 min
Lab File: VF062090.D
Acq: 22 Mar 2019 18:48

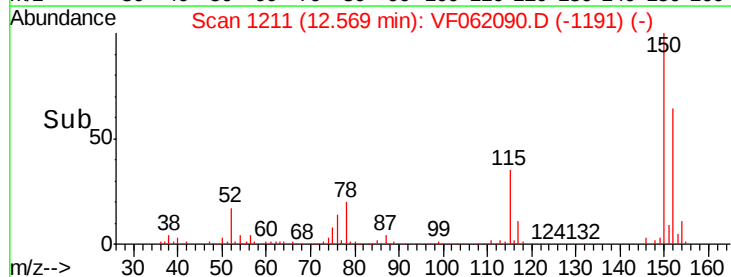
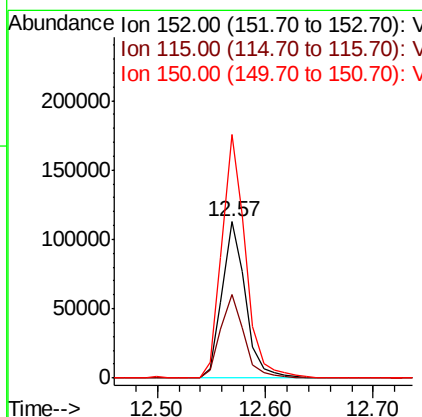
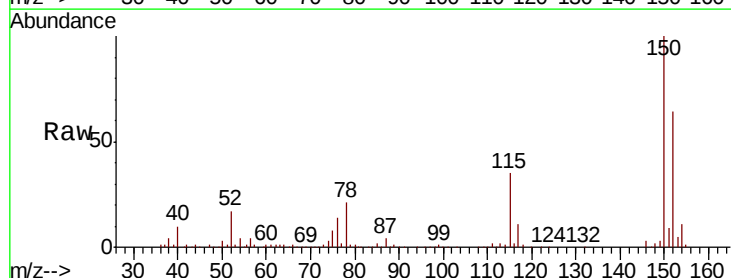
Instrument :
MSVOA_F
ClientSampleId :
WP022SB429-190319-(23-25)

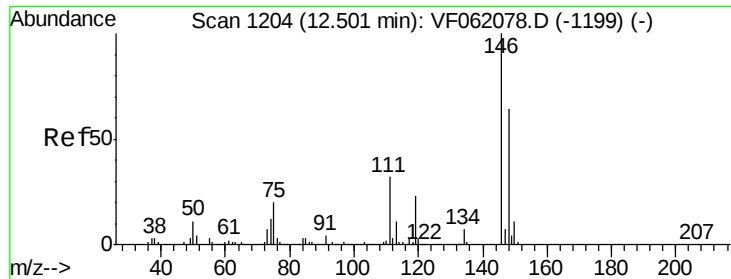
Tot Ion:112 Resp: 42528
Ion Ratio Lower Upper
112 100
114 29.0 26.0 39.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.57 min Scan# 1211
Delta R.T. -0.00 min
Lab File: VF062090.D
Acq: 22 Mar 2019 18:48

Tgt Ion:152 Resp: 170915
Ion Ratio Lower Upper
152 100
115 54.0 27.7 83.1
150 156.0 0.0 313.2

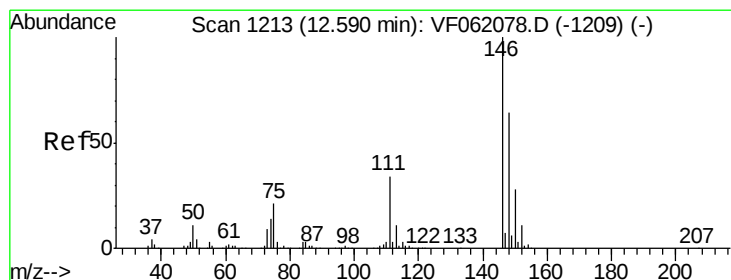
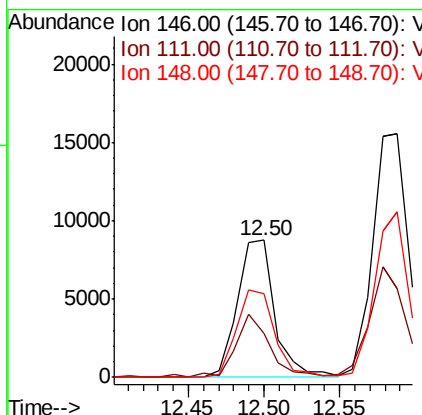
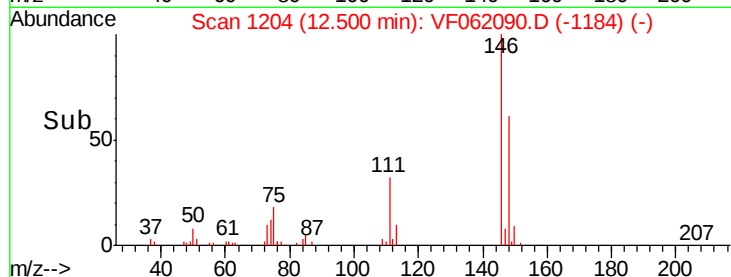
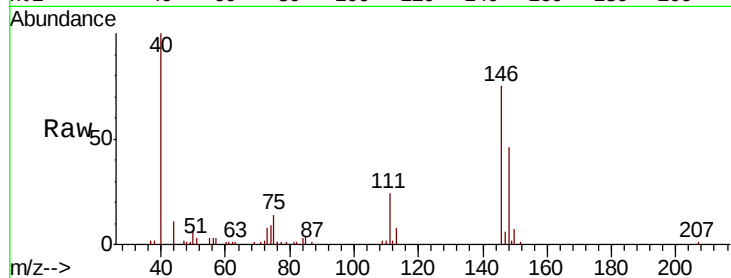




#87
 1,3-Dichlorobenzene
 Concen: 2.759 ug/l
 RT: 12.50 min Scan# 1204
 Delta R.T. -0.00 min
 Lab File: VF062090.D
 Acq: 22 Mar 2019 18:48

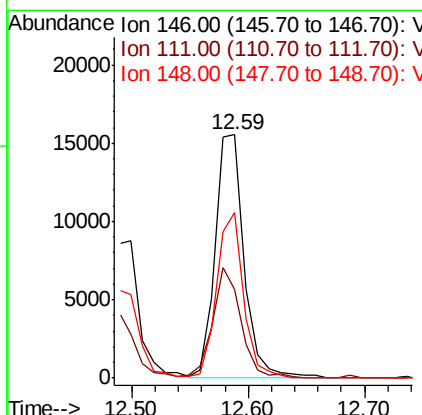
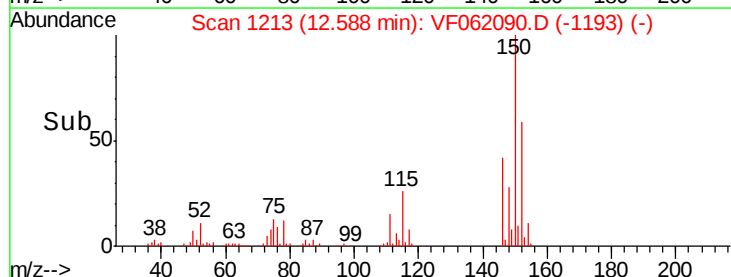
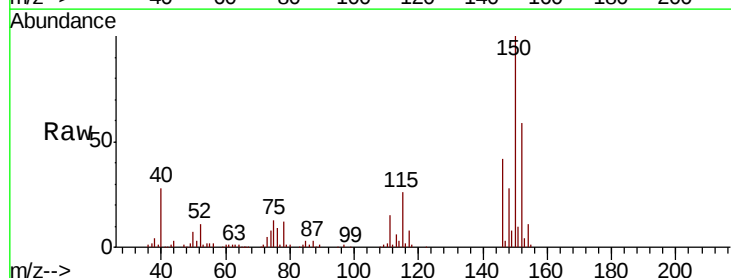
Instrument :
 MSVOA_F
 ClientSampleId :
 WP022SB429-190319-(23-25)

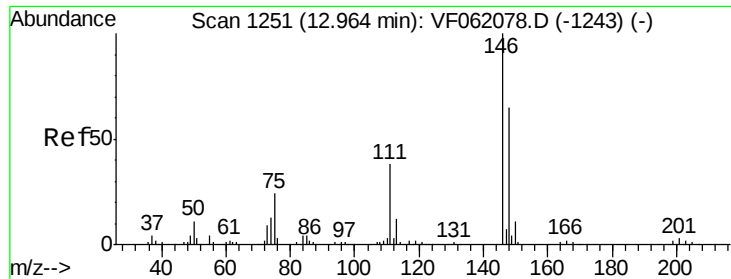
Tot Ion:146 Resp: 15059
 Ion Ratio Lower Upper
 146 100
 111 31.8 16.1 48.3
 148 60.8 31.9 95.7



#88
 1,4-Dichlorobenzene
 Concen: 5.037 ug/l
 RT: 12.59 min Scan# 1213
 Delta R.T. -0.00 min
 Lab File: VF062090.D
 Acq: 22 Mar 2019 18:48

Tgt Ion:146 Resp: 26830
 Ion Ratio Lower Upper
 146 100
 111 36.6 16.9 50.6
 148 68.0 31.9 95.7

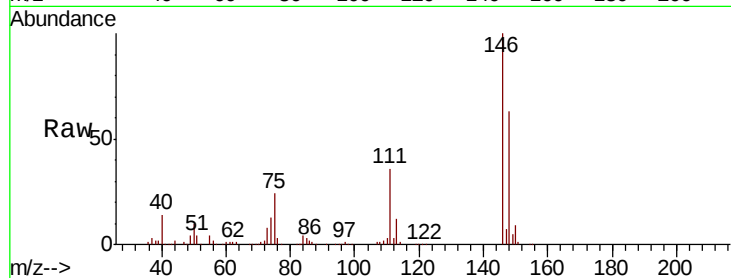




#91
 1,2-Dichlorobenzene
 Concen: 21.286 ug/l
 RT: 12.96 min Scan# 1251
 Delta R.T. -0.00 min
 Lab File: VF062090.D
 Acq: 22 Mar 2019 18:48

Instrument :
 MSVOA_F
 ClientSampleId :
 WP022SB429-190319-(23-25)

Tot Ion	Ratio	Lower	Upper
146	100		
111	36.5	19.1	57.3
148	63.2	32.8	98.3



Abundance

Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

