

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_F\DATA\VF041919\
 Data File : VF062222.D
 Acq On : 19 Apr 2019 13:54
 Operator : FY/SY
 Sample : K2197-07RE
 Misc : 6.43g/5mL/MSVOA_F/SOIL
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 CL-01-041619-BRE

Quant Time: Apr 19 15:52:36 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82F041719S.M
 Quant Title : SW846 8260
 QLast Update : Fri Apr 19 03:56:19 2019
 Response via : Initial Calibration

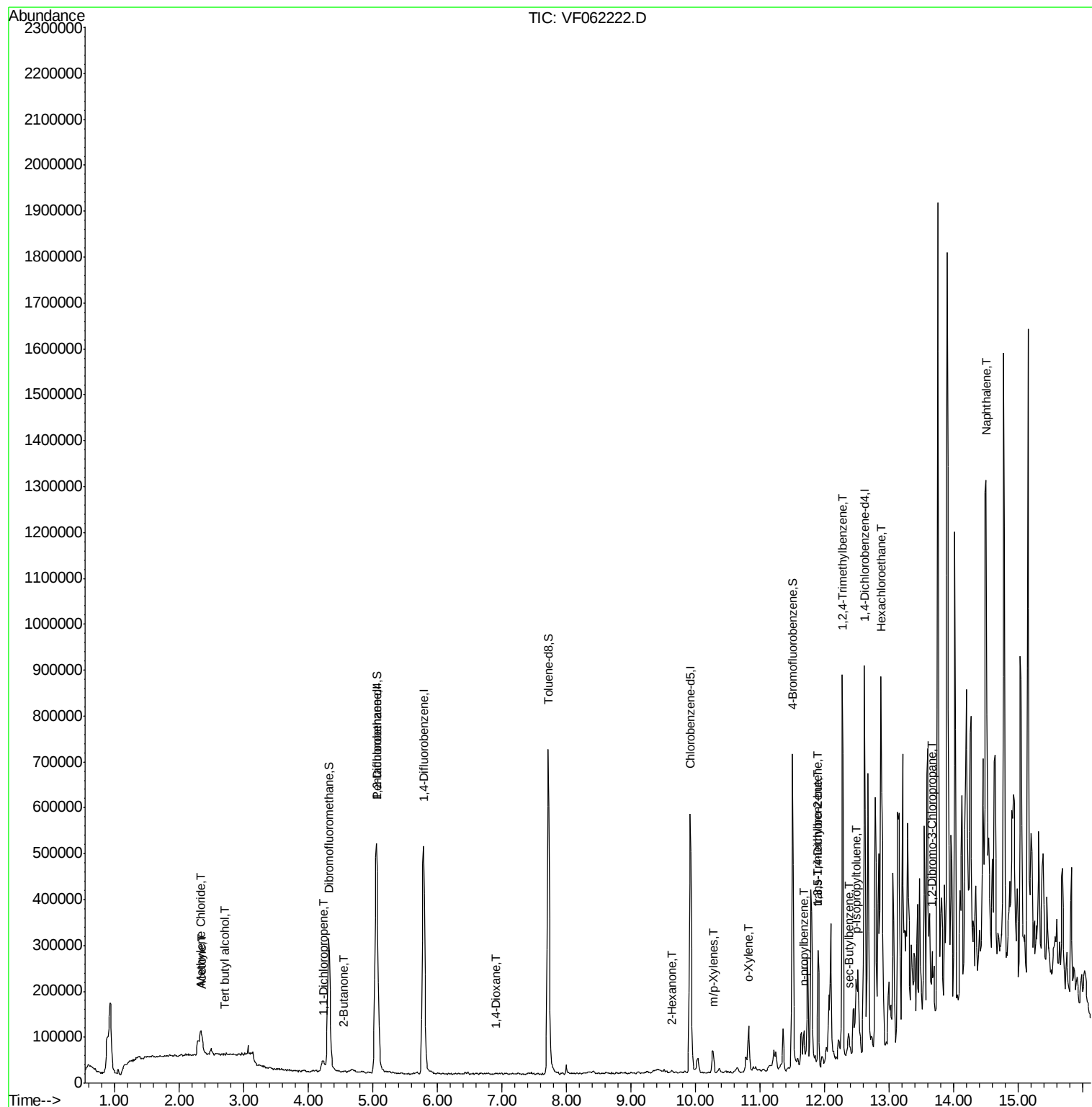
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.07	168	401318	50.00	ug/l	0.03
34) 1,4-Difluorobenzene	5.79	114	602969	50.00	ug/l	0.02
63) Chlorobenzene-d5	9.92	117	436540	50.00	ug/l	0.02
72) 1,4-Dichlorobenzene-d4	12.62	152	224324	50.00	ug/l	0.01
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.05	65	222067	60.35	ug/l	0.03
Spiked Amount 50.000			Recovery	=	120.70%	
35) Dibromofluoromethane	4.32	113	285514	54.13	ug/l	0.02
Spiked Amount 50.000			Recovery	=	108.26%	
50) Toluene-d8	7.72	98	636533	47.68	ug/l	0.02
Spiked Amount 50.000			Recovery	=	95.36%	
62) 4-Bromofluorobenzene	11.50	95	247099	48.11	ug/l	0.02
Spiked Amount 50.000			Recovery	=	96.22%	
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	2.71	59	384	1.501 ug/l #		1
13) Acrolein	2.10	56	2173	Below Cal		98
16) Acetone	2.36	43	17026	19.357 ug/l		100
18) Methyl Acetate	2.49	43	8060	Below Cal #		91
20) Methylene Chloride	2.33	84	51026	6.345 ug/l		96
25) 2-Butanone	4.54	43	2468	1.403 ug/l #		89
36) 1,1-Dichloropropene	4.24	75	51315	7.098 ug/l #		40
49) 1,4-Dioxane	6.89	88	147	5.436 ug/l #		1
59) 2-Hexanone	9.63	43	6235	3.882 ug/l		99
68) m/p-Xylenes	10.27	106	18474	2.965 ug/l		93
69) o-Xylene	10.82	106	27038	3.908 ug/l		97
74) N-amyl acetate	11.45	43	4139	Below Cal #		40
78) n-propylbenzene	11.68	91	50642	2.491 ug/l		97
80) 1,3,5-Trimethylbenzene	11.90	105	128991	8.037 ug/l		96
81) trans-1,4-Dichloro-2-buten	11.90	75	2217	1.907 ug/l #		1
84) 1,2,4-Trimethylbenzene	12.27	105	387602	24.957 ug/l		100
85) sec-Butylbenzene	12.37	105	33551	1.557 ug/l		92
86) p-Isopropyltoluene	12.50	119	86413	4.728 ug/l		98
90) Hexachloroethane	12.88	117	18785	4.002 ug/l #		12
92) 1,2-Dibromo-3-Chloropropan	13.66	75	1795	2.757 ug/l #		1
95) Naphthalene	14.50	128	99510	9.196 ug/l #		89

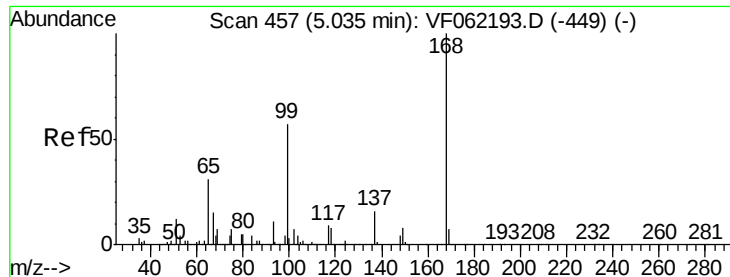
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.07 min Scan# 460

Delta R.T. 0.03 min

Lab File: VF062222.D

Acq: 19 Apr 2019 13:54

Instrument :

MSVOA_F

ClientSampleId :

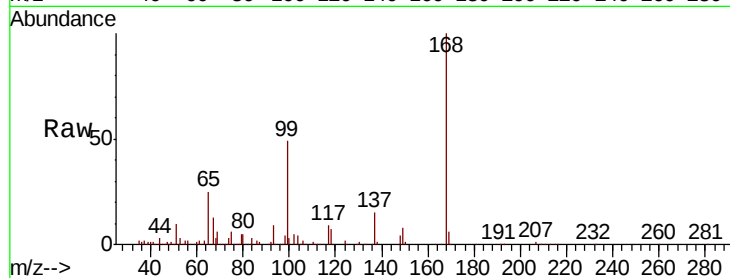
CL-01-041619-BRE

Tgt Ion: 168 Resp: 401318

Ion Ratio Lower Upper

168 100

99 49.3 45.5 68.3



Abundance Ion 167.90 (167.60 to 168.60): VF0

Ion 98.90 (98.60 to 99.60): VF0

5.07

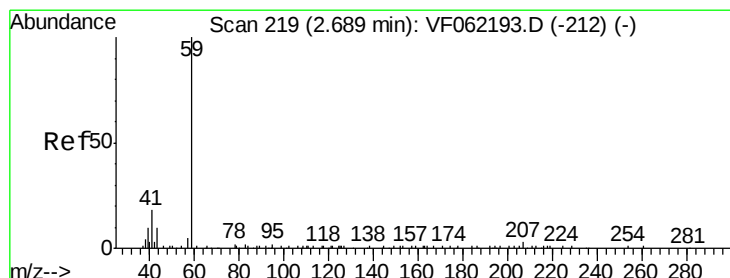
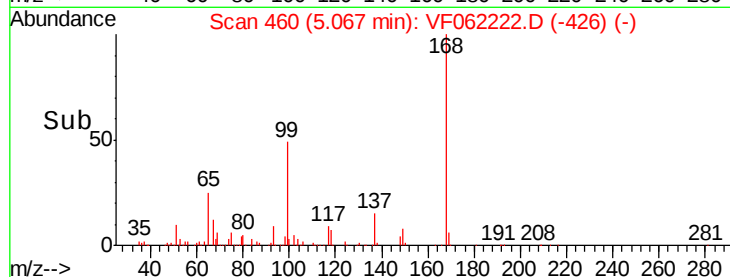
150000

100000

50000

0

Time-->



#11

Tert butyl alcohol

Concen: 1.501 ug/l

RT: 2.71 min Scan# 221

Delta R.T. 0.02 min

Lab File: VF062222.D

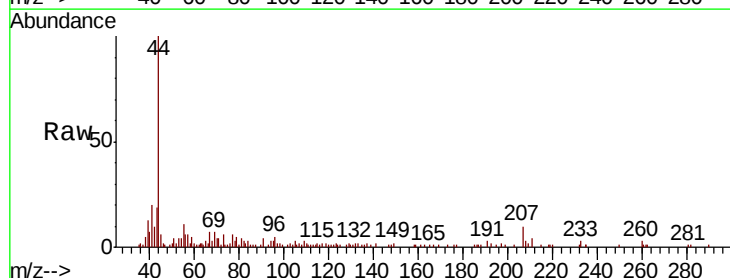
Acq: 19 Apr 2019 13:54

Tgt Ion: 59 Resp: 384

Ion Ratio Lower Upper

59 100

57 116.7 9.3 13.9#



Abundance Ion 59.00 (58.70 to 59.70): VF0

Ion 57.00 (56.70 to 57.70): VF0

1200

1000

800

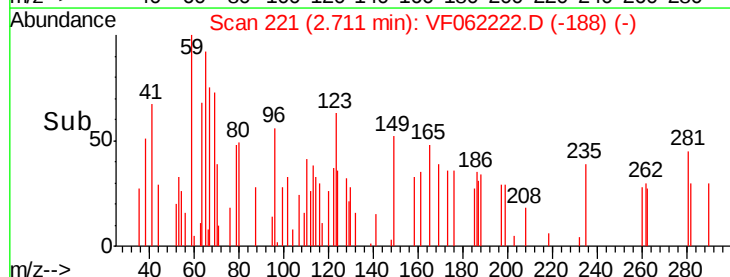
600

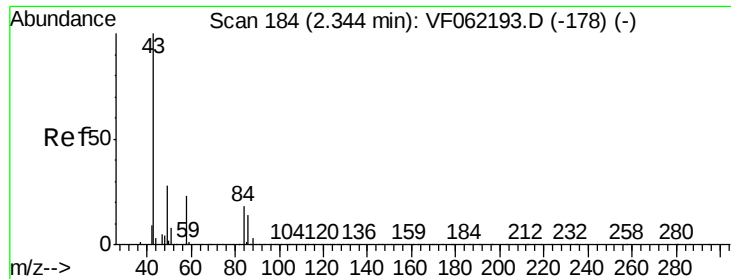
400

200

0

Time-->





#16

Acetone

Concen: 19.357 ug/l

RT: 2.36 min Scan# 185

Delta R.T. 0.01 min

Lab File: VF062222.D

Acq: 19 Apr 2019 13:54

Instrument :

MSVOA_F

ClientSampleId :

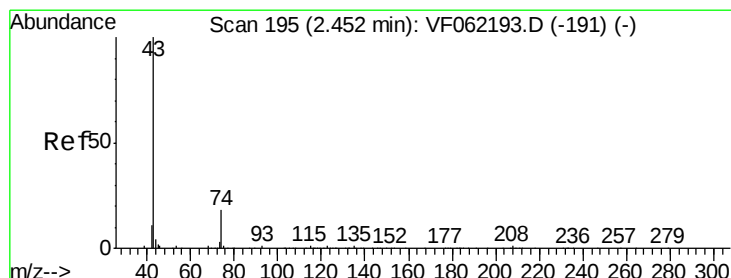
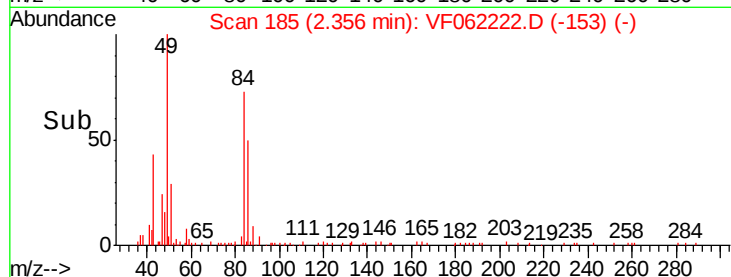
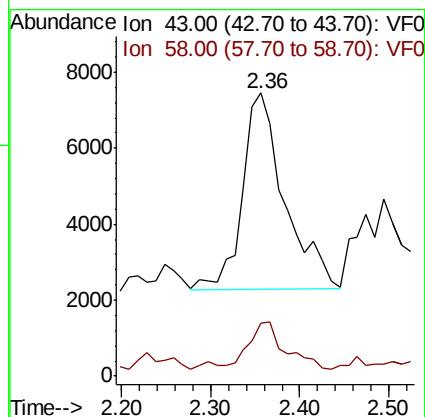
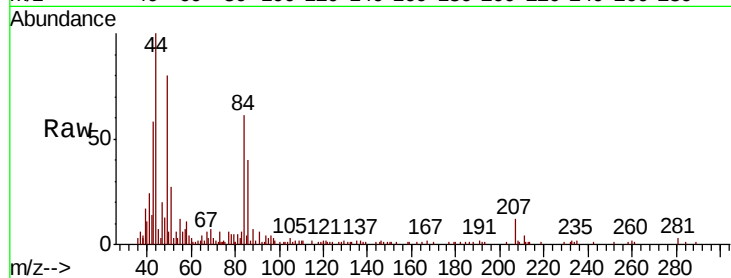
CL-01-041619-BRE

Tgt Ion: 43 Resp: 17026

Ion Ratio Lower Upper

43 100

58 23.7 18.8 28.2



#18

Methyl Acetate

Concen: Below Cal

RT: 2.49 min Scan# 199

Delta R.T. 0.04 min

Lab File: VF062222.D

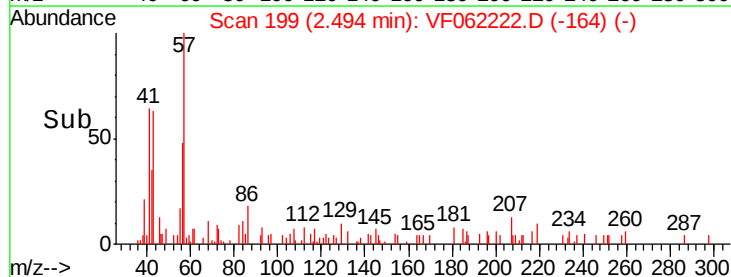
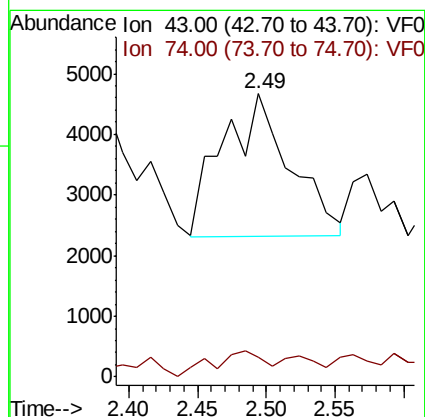
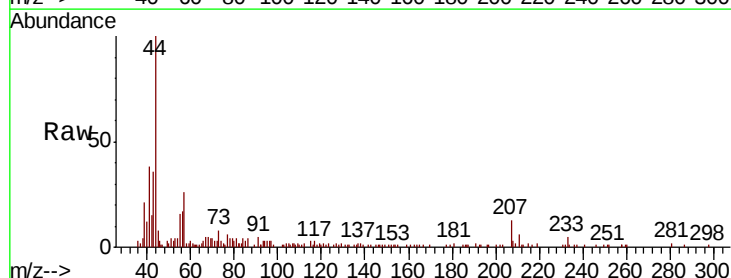
Acq: 19 Apr 2019 13:54

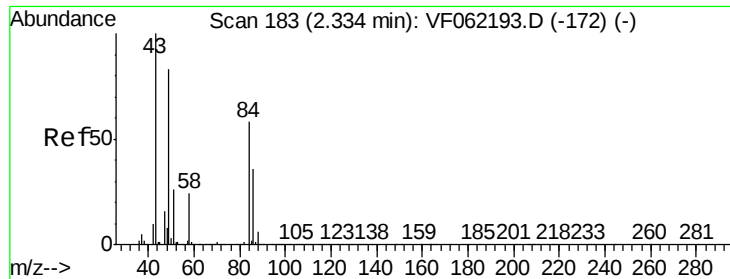
Tgt Ion: 43 Resp: 8060

Ion Ratio Lower Upper

43 100

74 13.9 14.5 21.7#

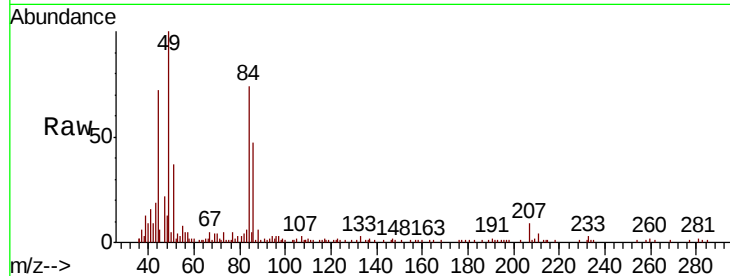




#20
Methylene Chloride
Concen: 6.345 ug/l
RT: 2.33 min Scan# 182
Delta R.T. -0.01 min
Lab File: VF062222.D
Acq: 19 Apr 2019 13:54

Instrument :
MSVOA_F
ClientSampleId :
CL-01-041619-BRE

Tgt Ion:	84	Resp:	51026
Ion	Ratio	Lower	Upper
84	100		
49	136.5	114.0	171.0
51	46.4	37.0	55.4
86	65.0	49.8	74.8



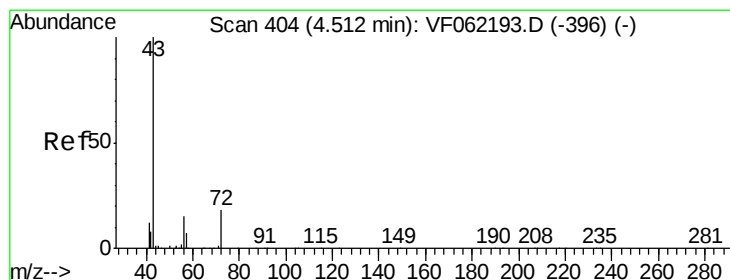
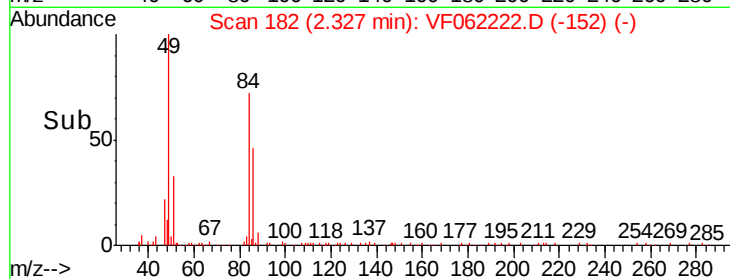
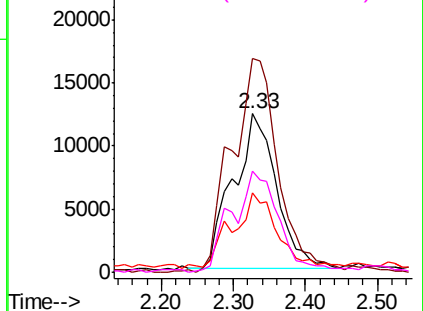
Abundance

Ion 83.90 (83.60 to 84.60): VF0

Ion 48.90 (48.60 to 49.60): VF0

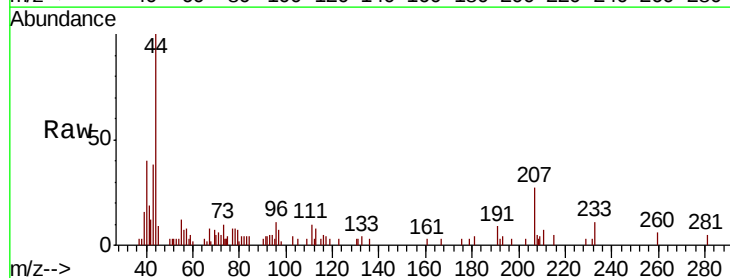
Ion 50.90 (50.60 to 51.60): VF0

Ion 85.90 (85.60 to 86.60): VF0



#25
2-Butanone
Concen: 1.403 ug/l
RT: 4.54 min Scan# 407
Delta R.T. 0.03 min
Lab File: VF062222.D
Acq: 19 Apr 2019 13:54

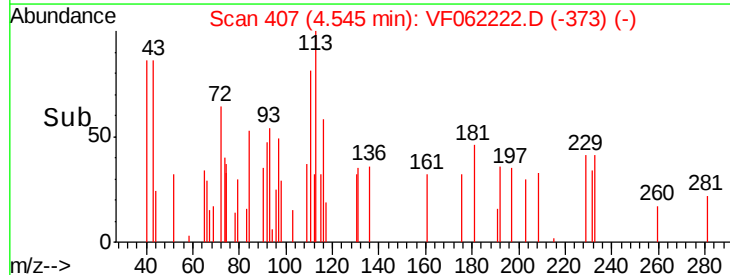
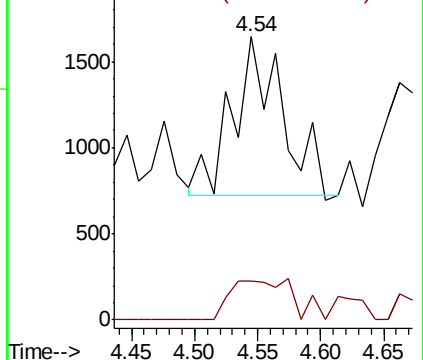
Tgt Ion:	43	Resp:	2468
Ion	Ratio	Lower	Upper
43	100		
72	25.1	16.1	24.1#

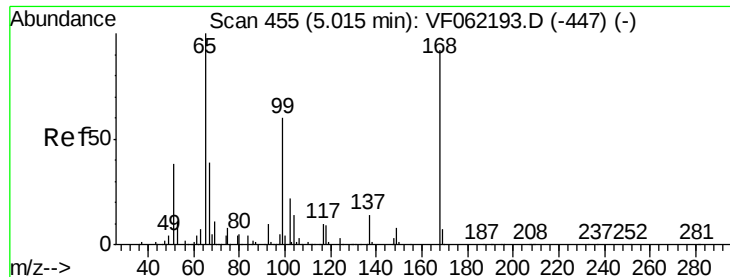


Abundance

Ion 43.00 (42.70 to 43.70): VF0

Ion 72.00 (71.70 to 72.70): VF0

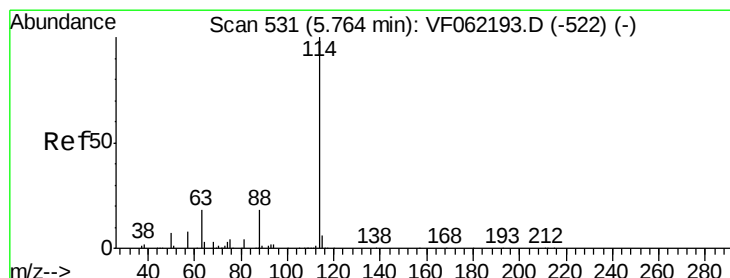
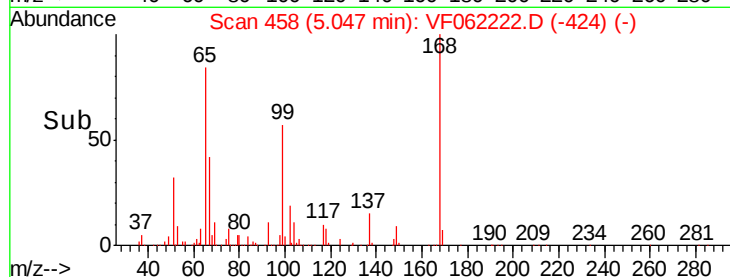
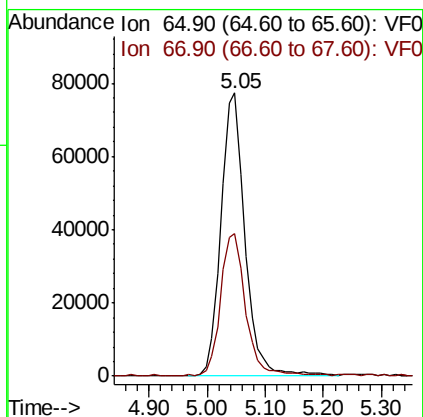
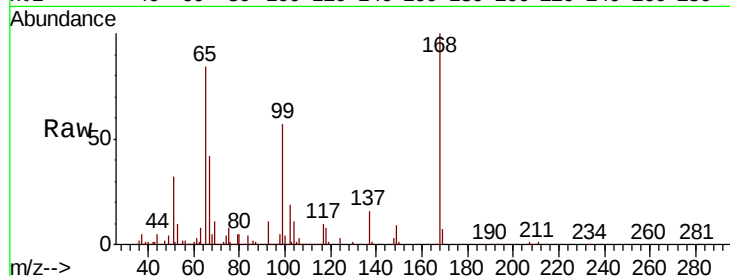




#33
 1,2-Dichloroethane-d4
 Concen: 60.347 ug/l
 RT: 5.05 min Scan# 458
 Delta R.T. 0.03 min
 Lab File: VF062222.D
 Acq: 19 Apr 2019 13:54

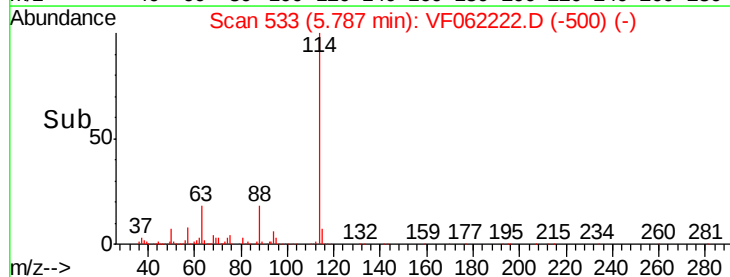
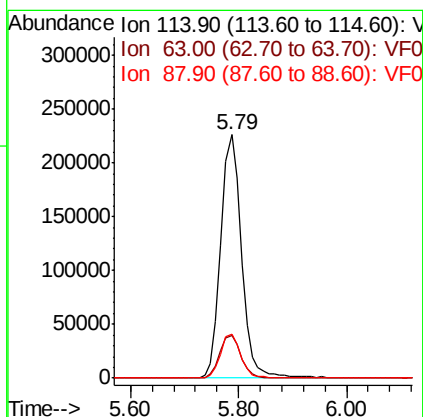
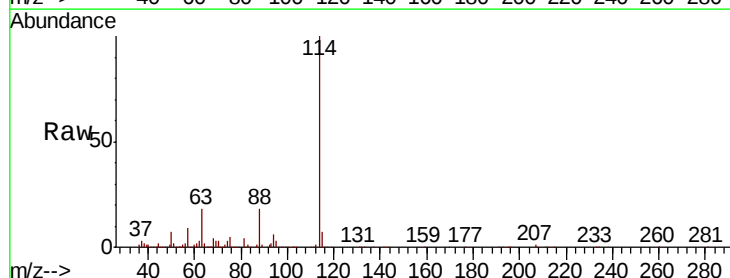
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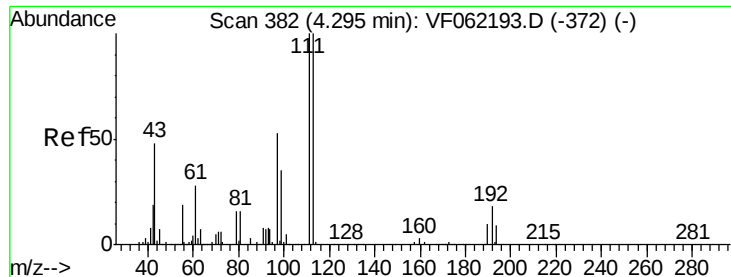
Tgt Ion: 65 Resp: 222067
 Ion Ratio Lower Upper
 65 100
 67 51.7 0.0 109.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.79 min Scan# 533
 Delta R.T. 0.02 min
 Lab File: VF062222.D
 Acq: 19 Apr 2019 13:54

Tgt Ion: 114 Resp: 602969
 Ion Ratio Lower Upper
 114 100
 63 17.7 0.0 36.6
 88 17.9 0.0 35.8

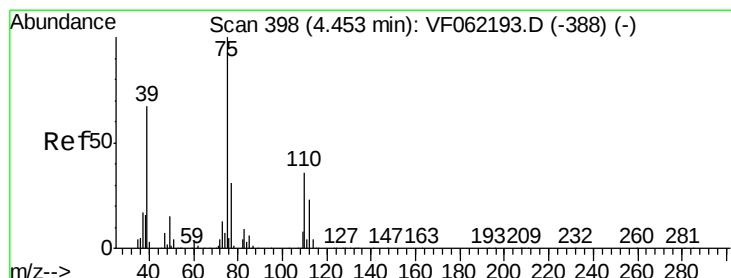
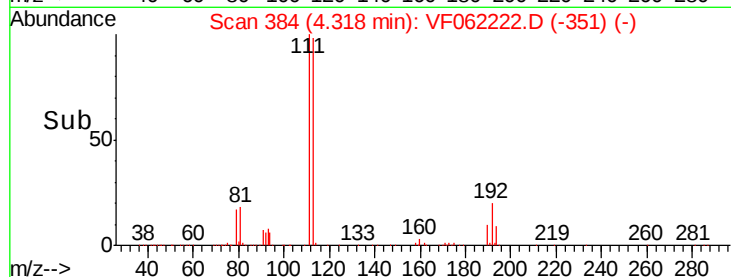
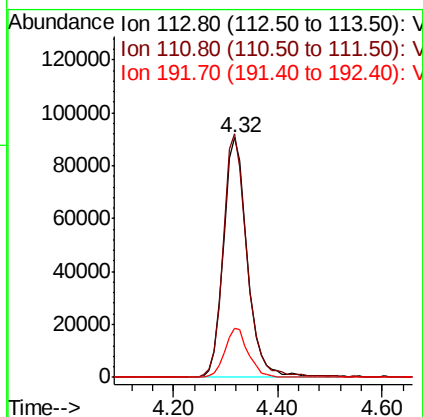
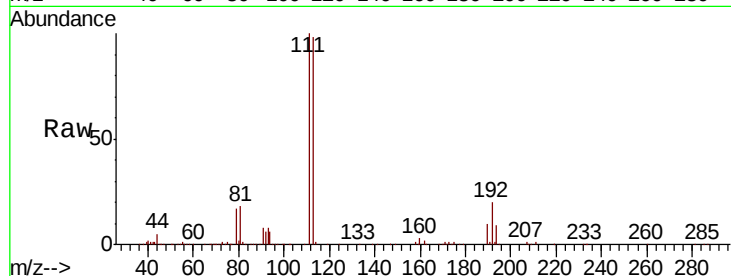




#35
 Dibromofluoromethane
 Concen: 54.132 ug/l
 RT: 4.32 min Scan# 384
 Delta R.T. 0.02 min
 Lab File: VF062222.D
 Acq: 19 Apr 2019 13:54

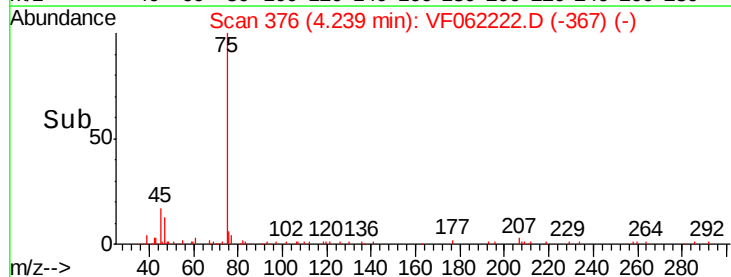
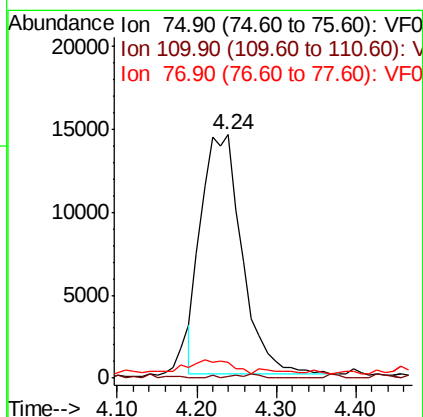
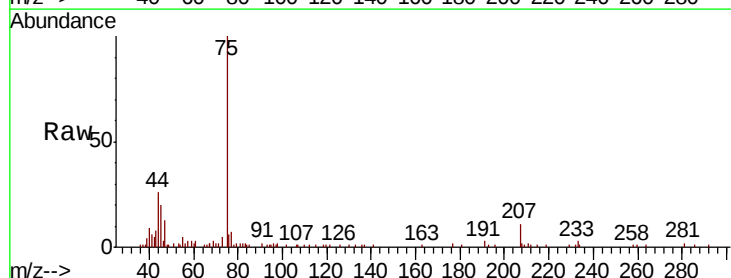
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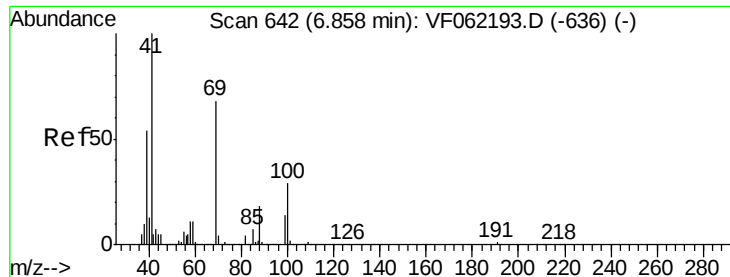
Tgt Ion	Ratio	Lower	Upper
113	100		
111	100.6	81.1	121.7
192	20.1	14.7	22.1



#36
 1,1-Dichloropropene
 Concen: 7.098 ug/l
 RT: 4.24 min Scan# 376
 Delta R.T. -0.21 min
 Lab File: VF062222.D
 Acq: 19 Apr 2019 13:54

Tgt Ion	Ratio	Lower	Upper
75	100		
110	0.0	18.4	55.2#
77	0.0	25.4	38.2#

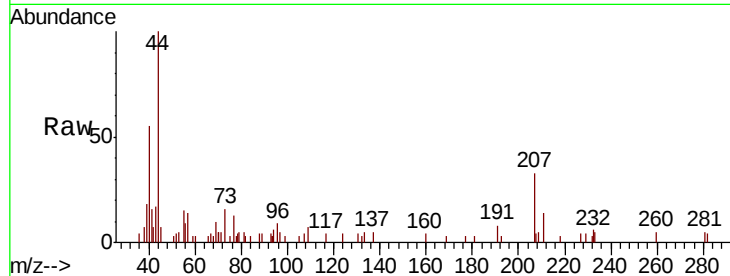




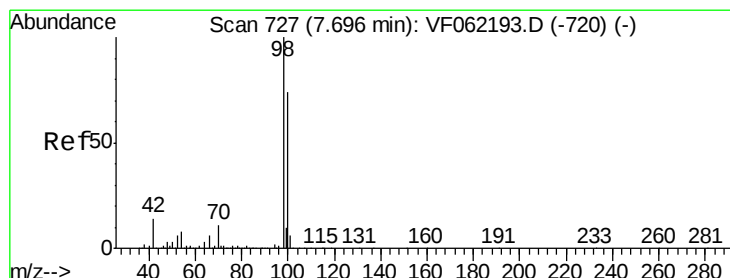
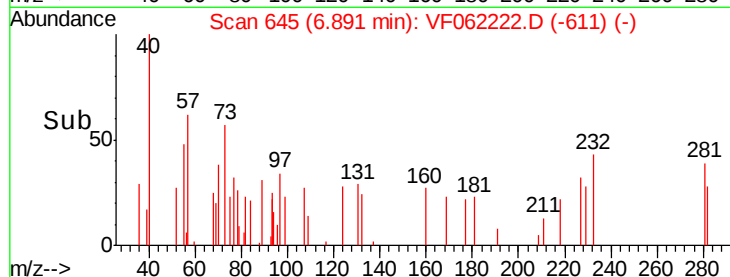
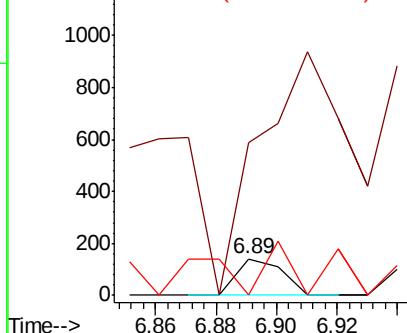
#49
 1,4-Dioxane
 Concen: 5.436 ug/l
 RT: 6.89 min Scan# 645
 Delta R.T. 0.03 min
 Lab File: VF062222.D
 Acq: 19 Apr 2019 13:54

Instrument :
 MSVOA_F
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 CL-01-041619-BRE

Tgt Ion: 88 Resp: 147
 Ion Ratio Lower Upper
 88 100
 43 1321.1 36.9 55.3#
 58 84.4 56.8 85.2

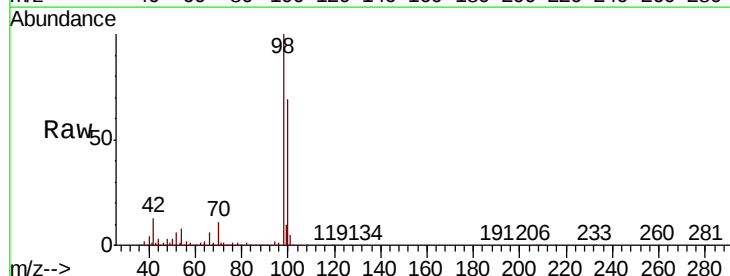


Abundance Ion 88.00 (87.70 to 88.70): VF0
 Ion 43.00 (42.70 to 43.70): VF0
 Ion 58.00 (57.70 to 58.70): VF0

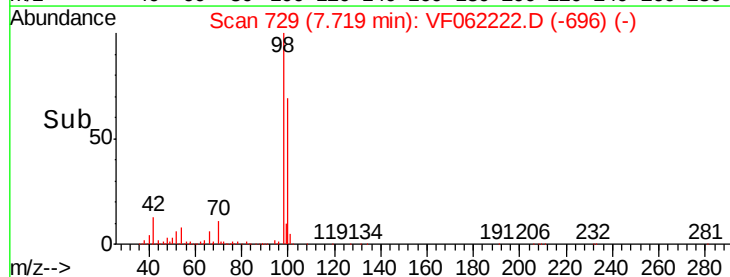
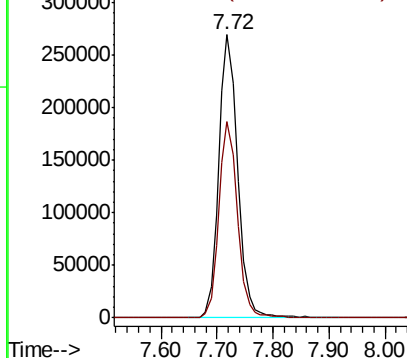


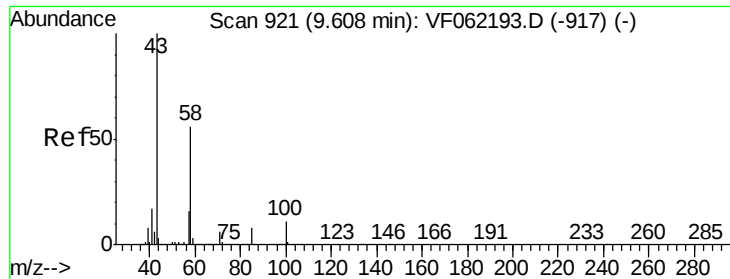
#50
 Toluene-d8
 Concen: 47.675 ug/l
 RT: 7.72 min Scan# 729
 Delta R.T. 0.02 min
 Lab File: VF062222.D
 Acq: 19 Apr 2019 13:54

Tgt Ion: 98 Resp: 636533
 Ion Ratio Lower Upper
 98 100
 100 68.7 56.2 84.2



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

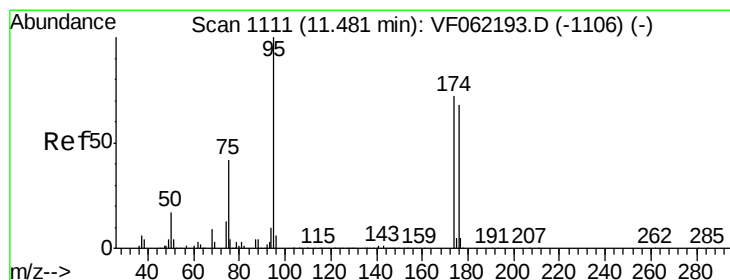
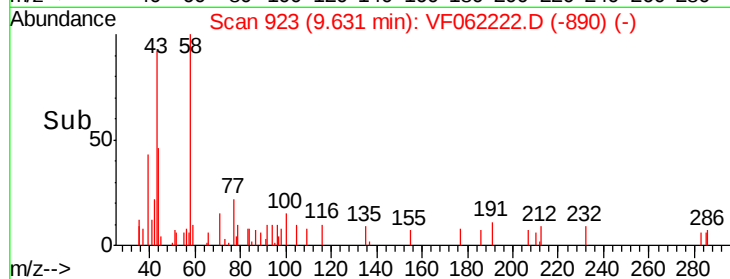
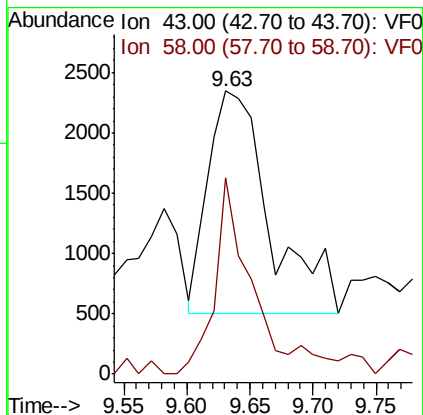
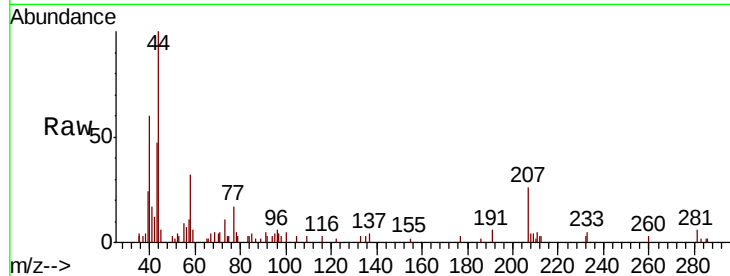




#59
2-Hexanone
Concen: 3.882 ug/l
RT: 9.63 min Scan# 923
Delta R.T. 0.02 min
Lab File: VF062222.D
Acq: 19 Apr 2019 13:54

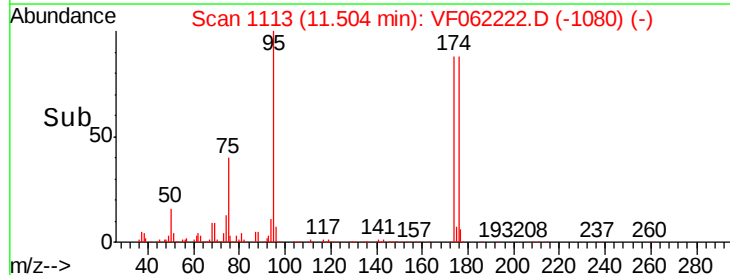
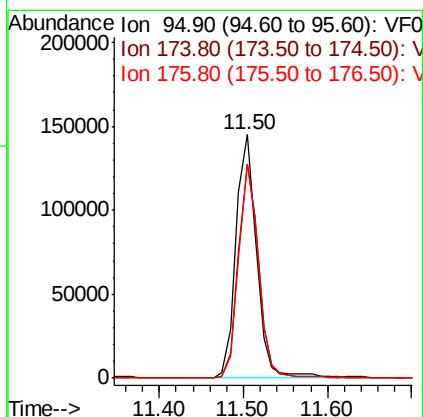
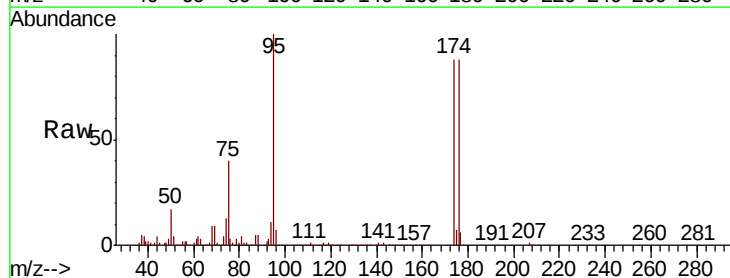
Instrument :
MSVOA_F
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CL-01-041619-BRE

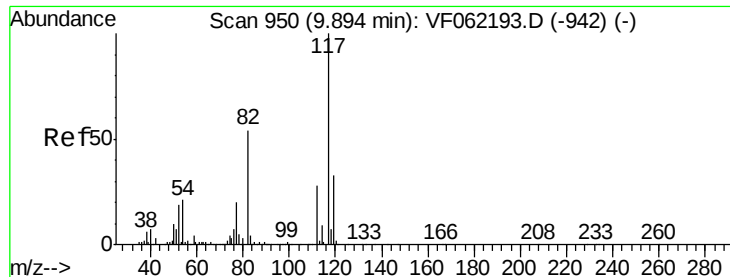
Tgt Ion: 43 Resp: 6235
Ion Ratio Lower Upper
43 100
58 48.9 24.6 74.0



#62
4-Bromofluorobenzene
Concen: 48.109 ug/l
RT: 11.50 min Scan# 1113
Delta R.T. 0.02 min
Lab File: VF062222.D
Acq: 19 Apr 2019 13:54

Tgt Ion: 95 Resp: 247099
Ion Ratio Lower Upper
95 100
174 86.7 0.0 159.4
176 85.9 0.0 155.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.92 min Scan# 952

Delta R.T. 0.02 min

Lab File: VF062222.D

Acq: 19 Apr 2019 13:54

Instrument :

MSVOA_F

ClientSampleId :

CL-01-041619-BRE

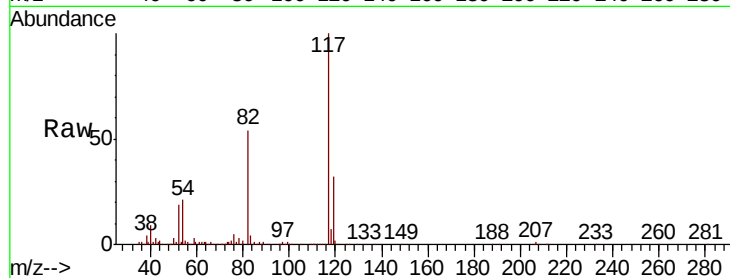
Tgt Ion:117 Resp: 436540

Ion Ratio Lower Upper

117 100

82 54.3 43.2 64.8

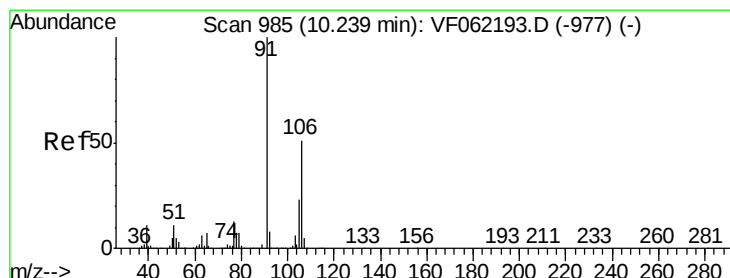
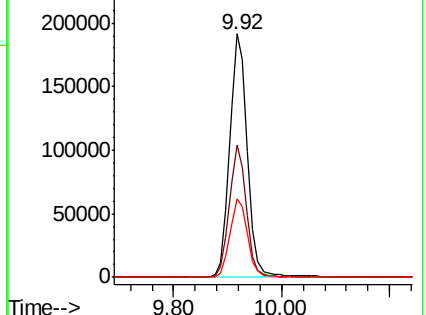
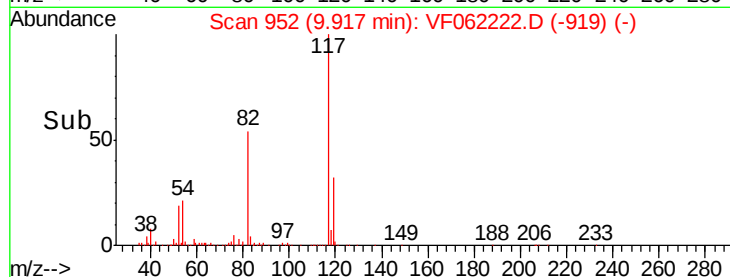
119 32.5 26.2 39.4



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VF0

Ion 118.90 (118.60 to 119.60): V



#68

m/p-Xylenes

Concen: 2.965 ug/l

RT: 10.27 min Scan# 988

Delta R.T. 0.03 min

Lab File: VF062222.D

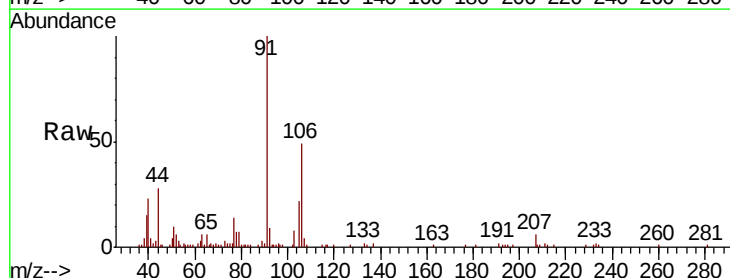
Acq: 19 Apr 2019 13:54

Tgt Ion:106 Resp: 18474

Ion Ratio Lower Upper

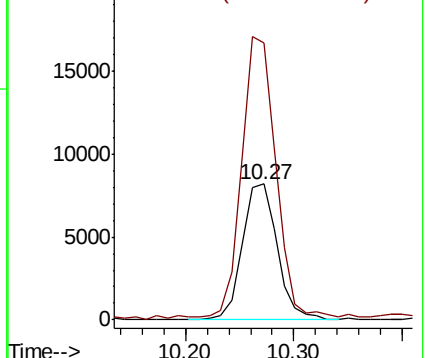
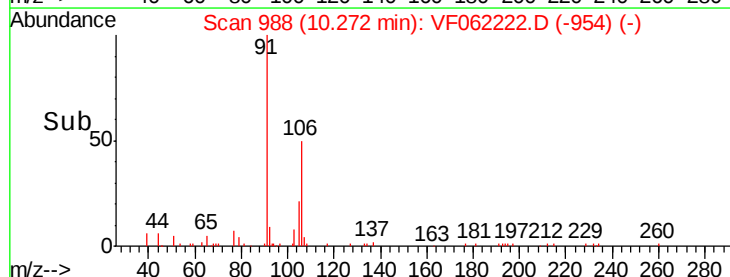
106 100

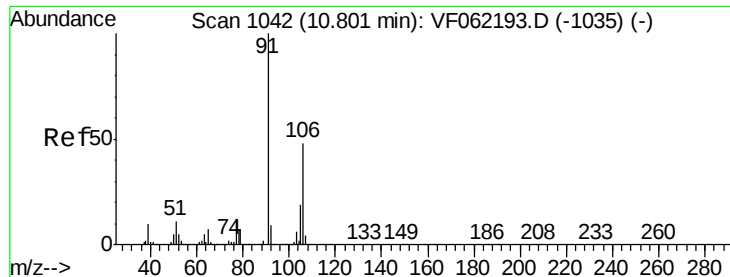
91 209.7 159.1 238.7



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VF0

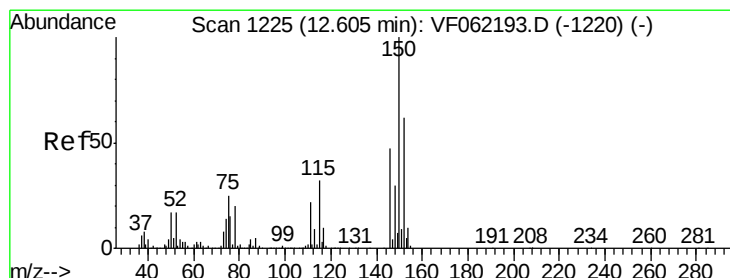
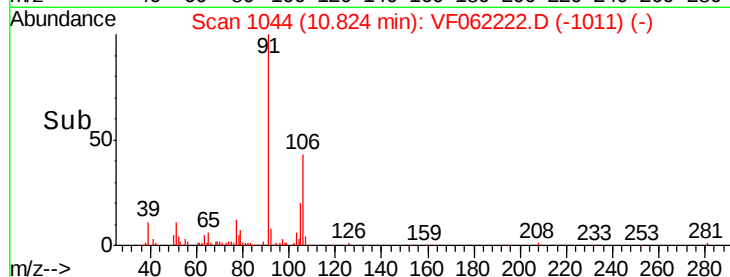
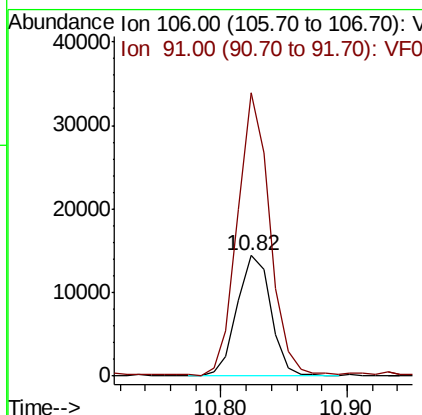
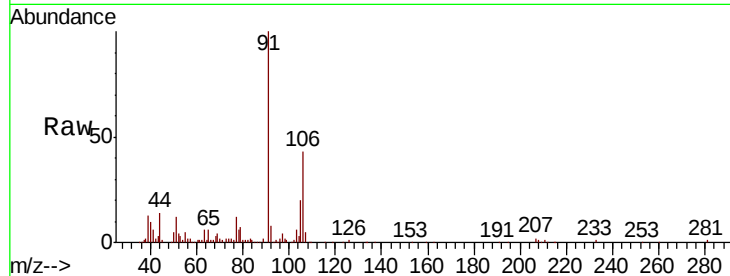




#69
o-Xylene
Concen: 3.908 ug/l
RT: 10.82 min Scan# 1044
Delta R.T. 0.02 min
Lab File: VF062222.D
Acq: 19 Apr 2019 13:54

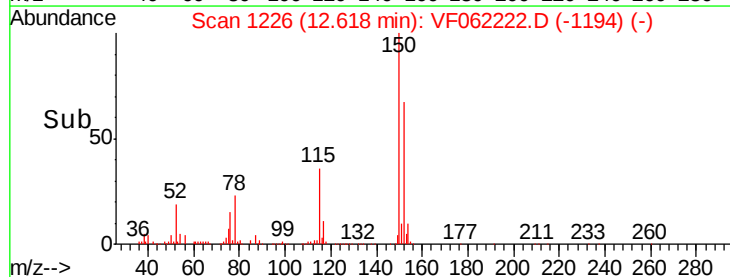
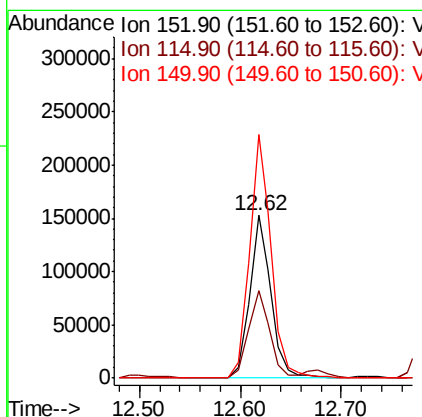
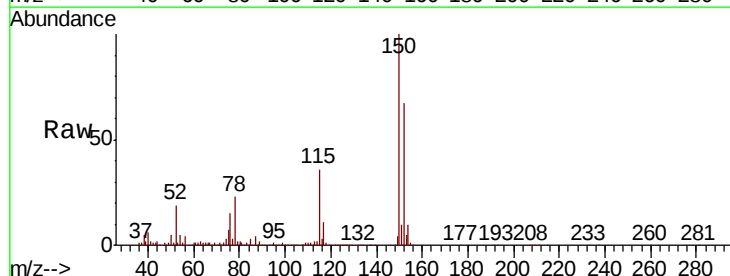
Instrument :
MSVOA_F
ClientSampleId :
CL-01-041619-BRE

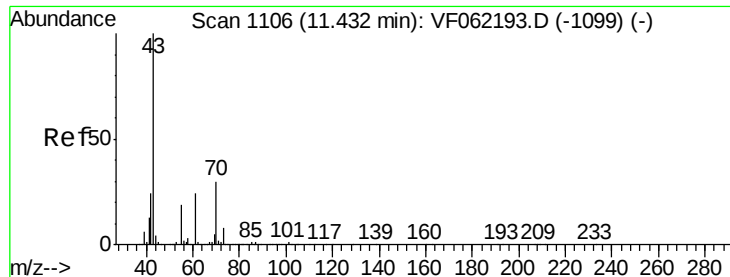
Tgt Ion:106 Resp: 27038
Ion Ratio Lower Upper
106 100
91 219.7 107.5 322.4



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.62 min Scan# 1226
Delta R.T. 0.01 min
Lab File: VF062222.D
Acq: 19 Apr 2019 13:54

Tgt Ion:152 Resp: 224324
Ion Ratio Lower Upper
152 100
115 54.6 27.8 83.3
150 152.2 0.0 341.8

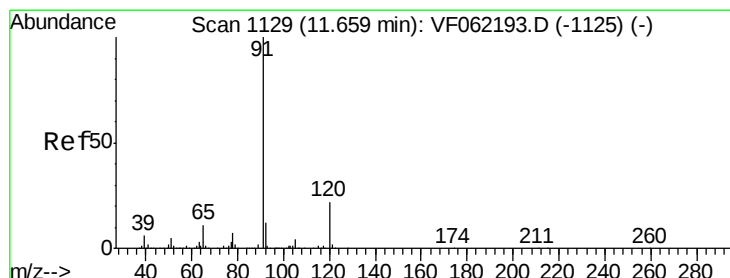
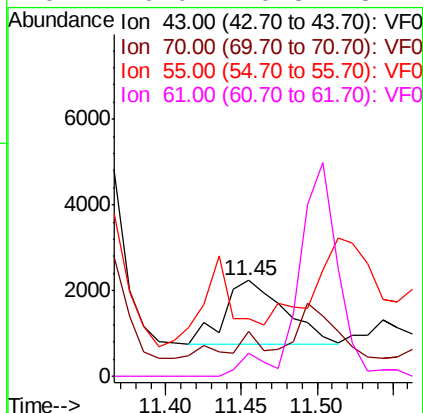
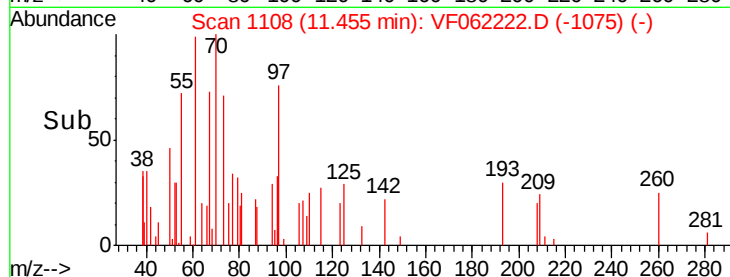
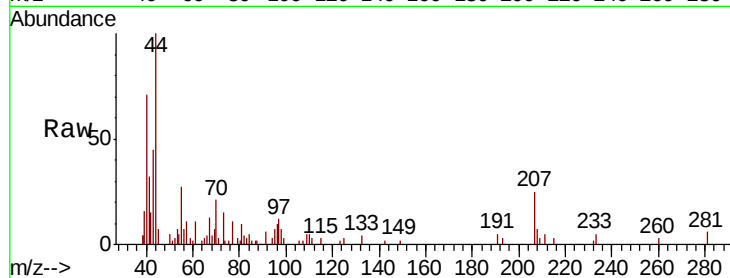




#74
N-amyI acetate
Concen: Below Cal
RT: 11.45 min Scan# 1108
Delta R.T. 0.02 min
Lab File: VF062222.D
Acq: 19 Apr 2019 13:54

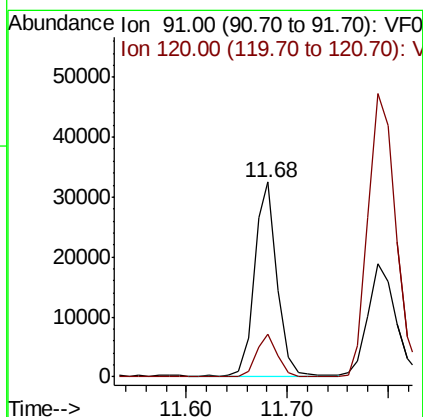
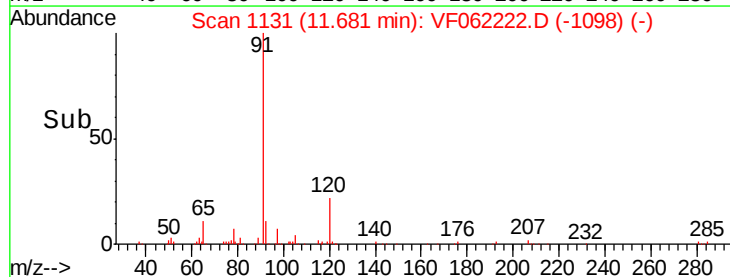
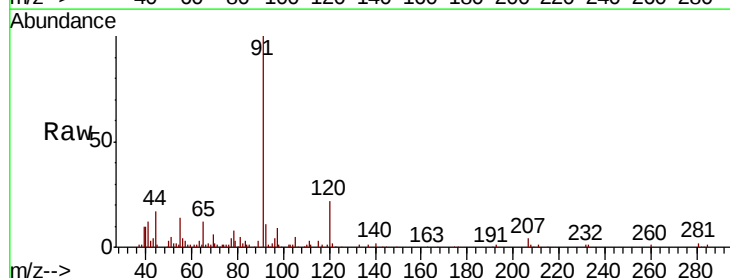
Instrument :
MSVOA_F
ClientSampleId :
CL-01-041619-BRE

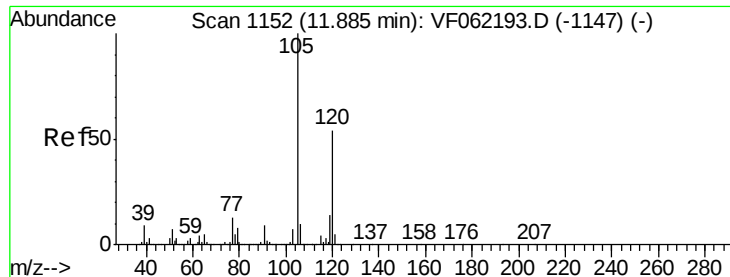
Tgt Ion: 43 Resp: 4139
Ion Ratio Lower Upper
43 100
70 19.6 27.0 40.4#
55 79.4 15.7 23.5#
61 0.0 20.8 31.2#



#78
n-propylbenzene
Concen: 2.491 ug/l
RT: 11.68 min Scan# 1131
Delta R.T. 0.02 min
Lab File: VF062222.D
Acq: 19 Apr 2019 13:54

Tgt Ion: 91 Resp: 50642
Ion Ratio Lower Upper
91 100
120 20.8 11.2 33.6





#80

1,3,5-Trimethylbenzene

Concen: 8.037 ug/l

RT: 11.90 min Scan# 1153

Delta R.T. 0.01 min

Lab File: VF062222.D

Acq: 19 Apr 2019 13:54

Instrument :

MSVOA_F

ClientSampleId :

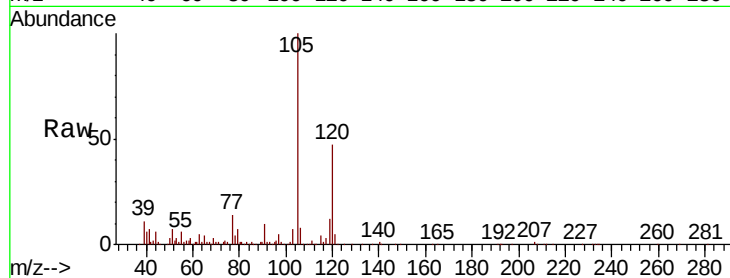
CL-01-041619-BRE

Tgt Ion:105 Resp: 128991

Ion Ratio Lower Upper

105 100

120 49.3 26.2 78.5



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

150000

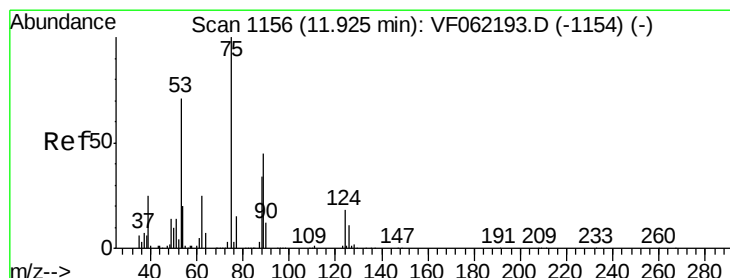
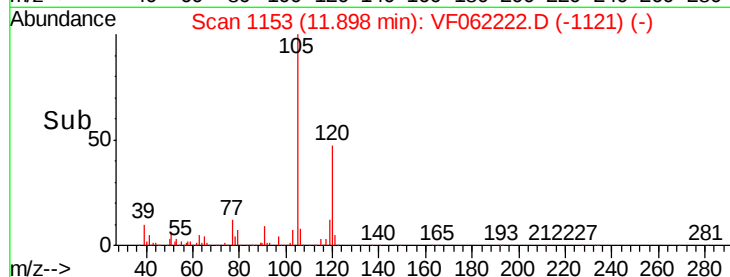
100000

50000

0

11.80 11.90 12.00

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 1.907 ug/l

RT: 11.90 min Scan# 1153

Delta R.T. -0.03 min

Lab File: VF062222.D

Acq: 19 Apr 2019 13:54

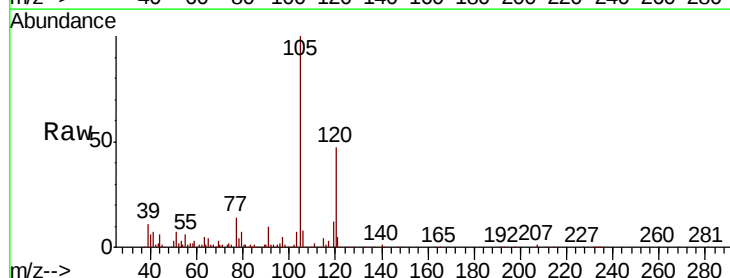
Tgt Ion: 75 Resp: 2217

Ion Ratio Lower Upper

75 100

53 181.6 50.2 75.4#

89 90.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VF0

Ion 53.00 (52.70 to 53.70): VF0

Ion 88.90 (88.60 to 89.60): VF0

4000

3000

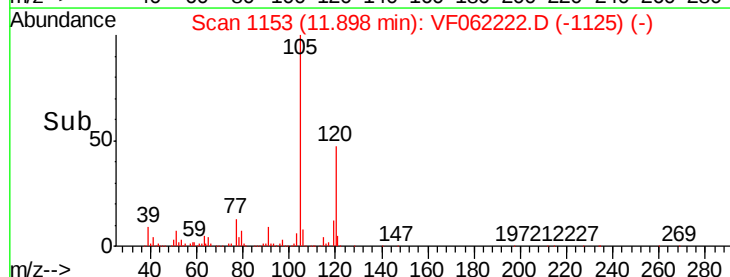
2000

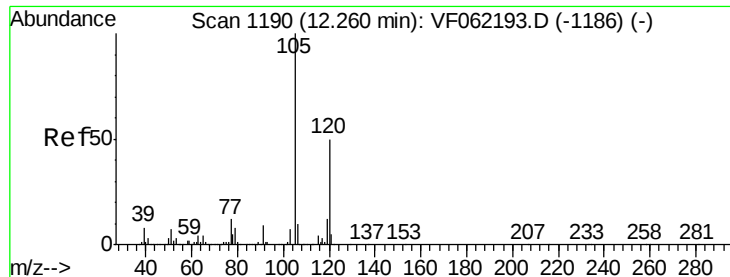
1000

0

11.80 11.85 11.90 11.95

Time-->

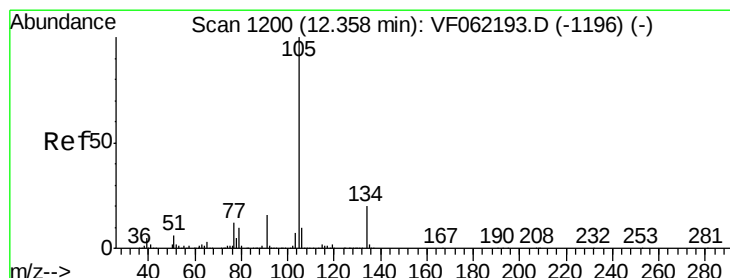
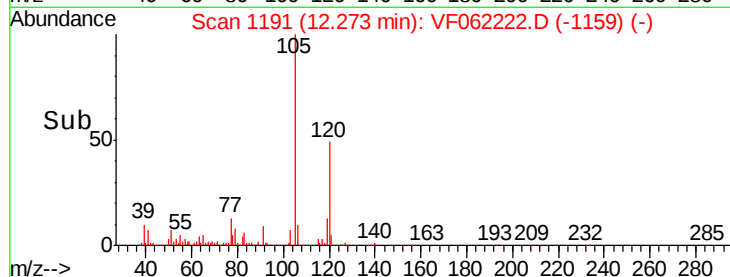
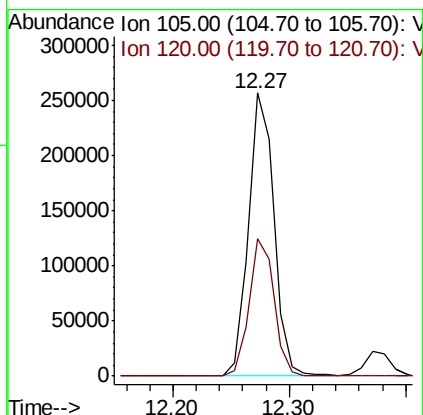
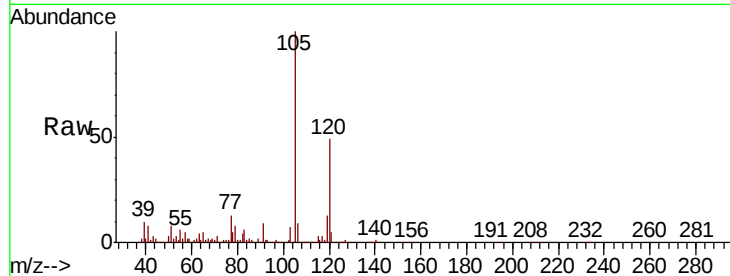




#84
 1,2,4-Trimethylbenzene
 Concen: 24.957 ug/l
 RT: 12.27 min Scan# 1191
 Delta R.T. 0.01 min
 Lab File: VF062222.D
 Acq: 19 Apr 2019 13:54

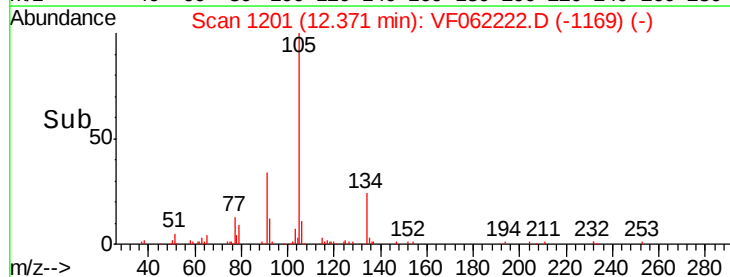
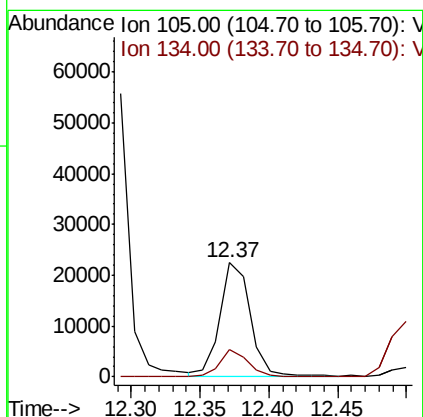
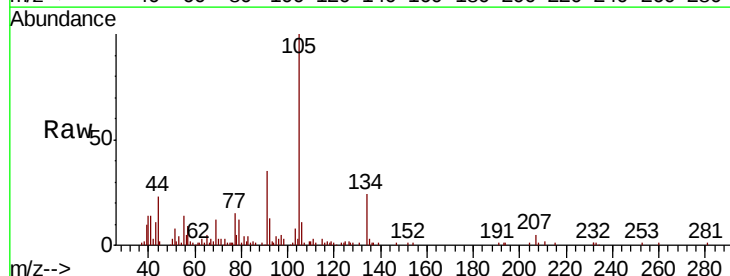
Instrument :
 MSVOA_F
 ClientSampleId :
 CL-01-041619-BRE

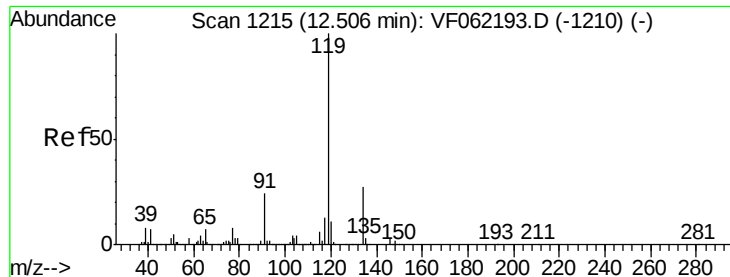
Tgt Ion:105 Resp: 387602
 Ion Ratio Lower Upper
 105 100
 120 48.1 24.0 72.0



#85
 sec-Butylbenzene
 Concen: 1.557 ug/l
 RT: 12.37 min Scan# 1201
 Delta R.T. 0.01 min
 Lab File: VF062222.D
 Acq: 19 Apr 2019 13:54

Tgt Ion:105 Resp: 33551
 Ion Ratio Lower Upper
 105 100
 134 22.9 9.7 29.1

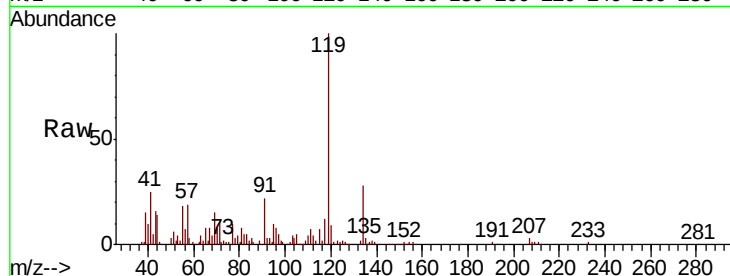




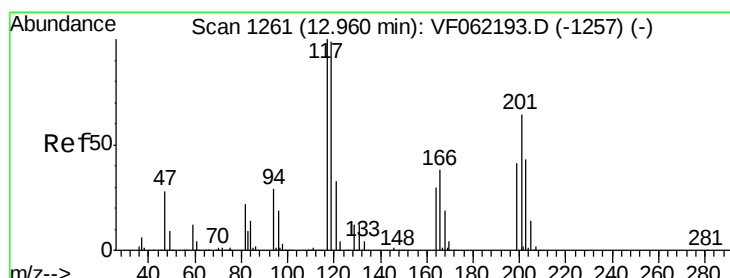
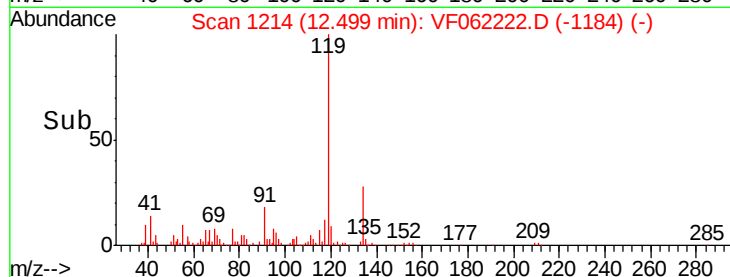
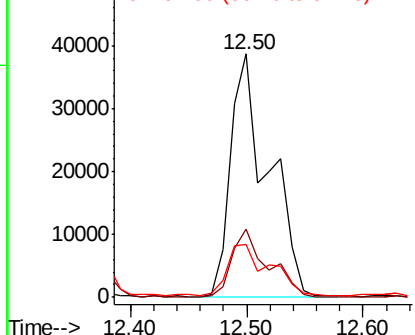
#86
p-Isopropyltoluene
Concen: 4.728 ug/l
RT: 12.50 min Scan# 1214
Delta R.T. -0.01 min
Lab File: VF062222.D
Acq: 19 Apr 2019 13:54

Instrument :
MSVOA_F
ClientSampleId :
CL-01-041619-BRE

Tgt Ion	Ratio	Lower	Upper
119	100		
134	27.0	13.2	39.5
91	24.6	11.7	35.1

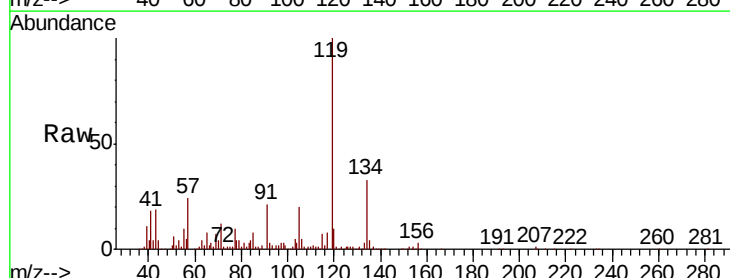


Abundance Ion 119.00 (118.70 to 119.70): V
Ion 134.00 (133.70 to 134.70): V
Ion 91.00 (90.70 to 91.70): VF0

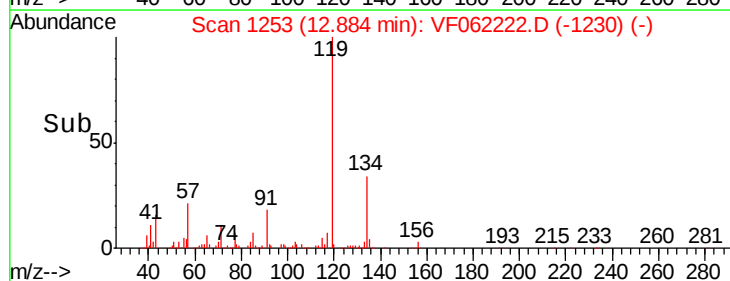
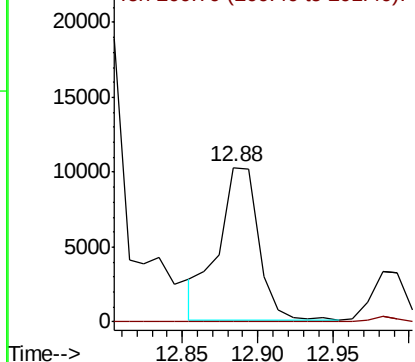


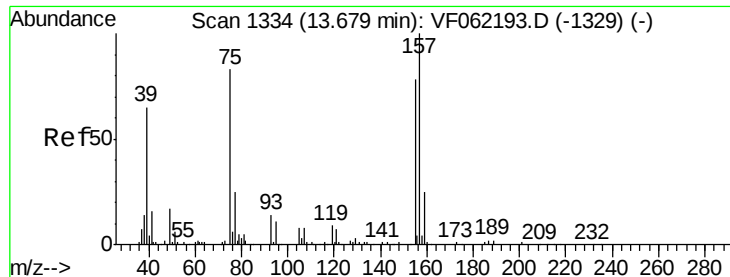
#90
Hexachloroethane
Concen: 4.002 ug/l
RT: 12.88 min Scan# 1253
Delta R.T. -0.08 min
Lab File: VF062222.D
Acq: 19 Apr 2019 13:54

Tgt Ion	Ratio	Lower	Upper
117	100		
201	0.0	37.7	113.1#



Abundance Ion 116.80 (116.50 to 117.50): V
Ion 200.70 (200.40 to 201.40): V





#92

1,2-Dibromo-3-Chloropropane

Concen: 2.757 ug/l

RT: 13.66 min Scan# 1332

Delta R.T. -0.02 min

Lab File: VF062222.D

Acq: 19 Apr 2019 13:54

Instrument :

MSVOA_F

ClientSampleId :

CL-01-041619-BRE

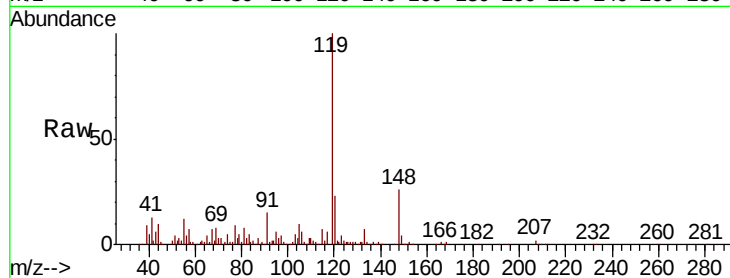
Tgt Ion: 75 Resp: 1795

Ion Ratio Lower Upper

75 100

155 0.0 47.6 142.8#

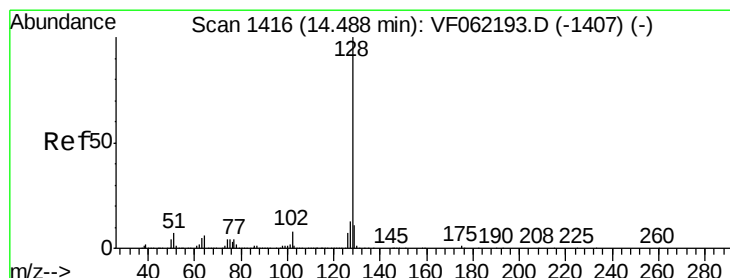
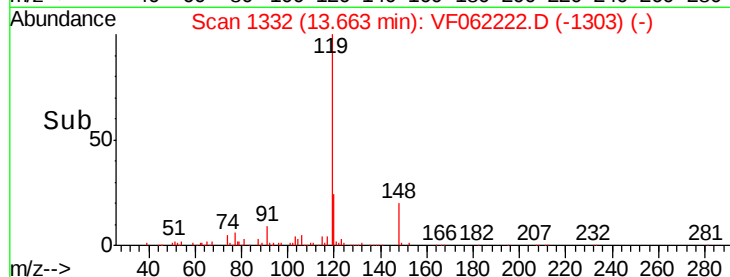
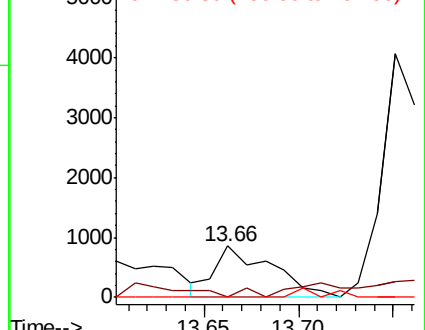
157 0.0 61.3 183.9#



Abundance Ion 74.90 (74.60 to 75.60): VF0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V



#95

Naphthalene

Concen: 9.196 ug/l

RT: 14.50 min Scan# 1417

Delta R.T. 0.01 min

Lab File: VF062222.D

Acq: 19 Apr 2019 13:54

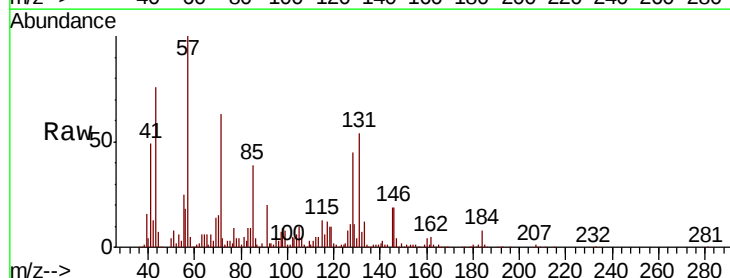
Tgt Ion: 128 Resp: 99510

Ion Ratio Lower Upper

128 100

127 17.3 10.4 15.6#

129 15.8 9.2 13.8#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

