

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF052319\
 Data File : VF062724.D
 Acq On : 23 May 2019 14:01
 Operator : FY/SY
 Sample : K2647-13
 Misc : 6.82g/5mL/MSVOA F/SOIL
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :

Quant Time: May 24 02:13:44 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F051619S.M
 Quant Title : SW846 8260
 QLast Update : Fri May 17 05:49:09 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.06	168	785164	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.78	114	1368906	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.91	117	945211	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.61	152	385566	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	292651	52.75	ug/l	0.00
Spiked Amount			Recovery	=	105.50%	
35) Dibromofluoromethane	4.32	113	533039	50.89	ug/l	0.00
Spiked Amount			Recovery	=	101.78%	
50) Toluene-d8	7.71	98	1082872	43.30	ug/l	0.00
Spiked Amount			Recovery	=	86.60%	
62) 4-Bromofluorobenzene	11.49	95	365607	38.54	ug/l	0.00
Spiked Amount			Recovery	=	77.08%	

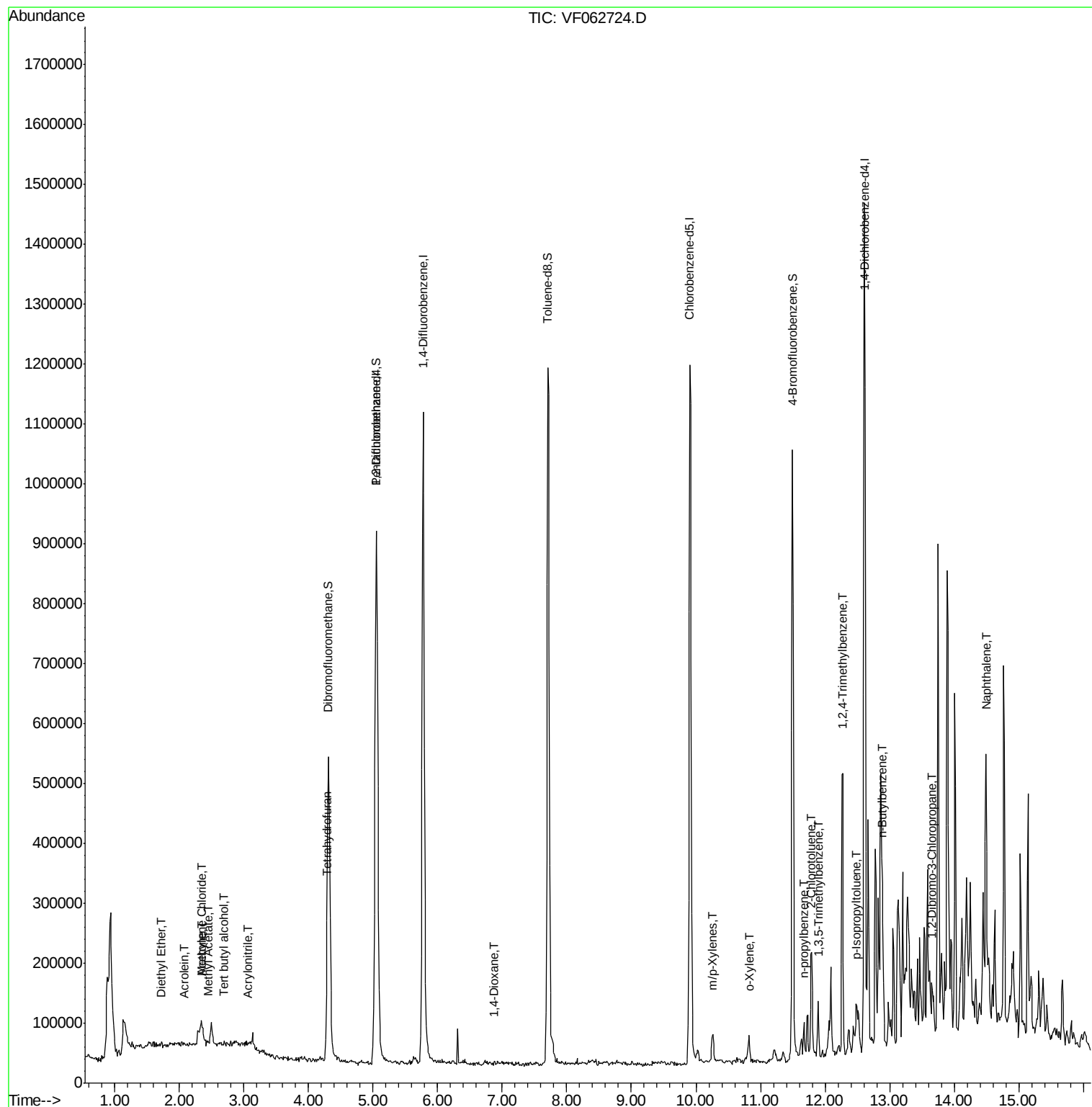
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Diethyl Ether	1.72	74	4564	1.895	ug/l	98
11) Tert butyl alcohol	2.70	59	1136	3.101	ug/l #	1
13) Acrolein	2.08	56	1580	4.132	ug/l	88
15) Acrylonitrile	3.08	53	1462	1.415	ug/l #	34
16) Acetone	2.36	43	8043	5.588	ug/l #	76
18) Methyl Acetate	2.45	43	2800	1.238	ug/l #	69
20) Methylene Chloride	2.34	84	31947	4.428	ug/l #	80
29) Tetrahydrofuran	4.28	42	3825	3.074	ug/l #	63
49) 1,4-Dioxane	6.88	88	185	3.724	ug/l #	4
59) 2-Hexanone	9.62	43	5858	Below Cal	#	55
68) m/p-Xylenes	10.25	106	16224	1.338	ug/l	97
69) o-Xylene	10.81	106	13909	1.114	ug/l	74
74) N-amyl acetate	11.45	43	3421	Below Cal	#	70
78) n-propylbenzene	11.67	91	39410	1.205	ug/l	88
79) 2-Chlorotoluene	11.78	91	19405	1.053	ug/l #	39
80) 1,3,5-Trimethylbenzene	11.90	105	52008	2.347	ug/l	97
84) 1,2,4-Trimethylbenzene	12.27	105	238990	11.144	ug/l	96
86) p-Isopropyltoluene	12.49	119	46446	1.827	ug/l	96
89) n-Butylbenzene	12.89	91	76593	3.055	ug/l	80
92) 1,2-Dibromo-3-Chloropropan	13.65	75	2518	3.737	ug/l #	1
95) Naphthalene	14.49	128	93690	6.504	ug/l #	90

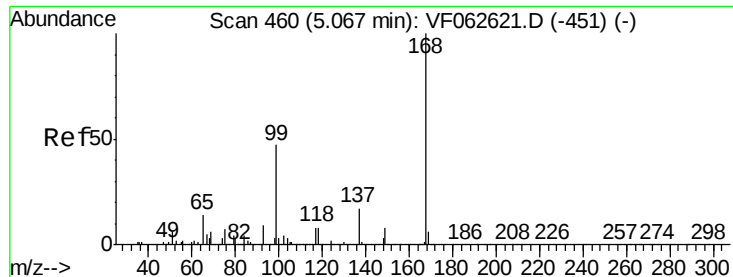
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Fri May 17 05:49:09 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.06 min Scan# 459

Delta R.T. -0.01 min

Lab File: VF062724.D

Acq: 23 May 2019 14:01

Instrument :

MSVOA_F

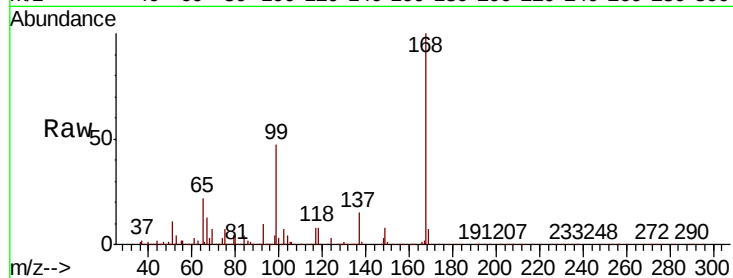
ClientSampled :

Tot Ion:168 Resp: 785164

Ion Ratio Lower Upper

168 100

99 47.3 37.8 56.8



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

5.06

250000

200000

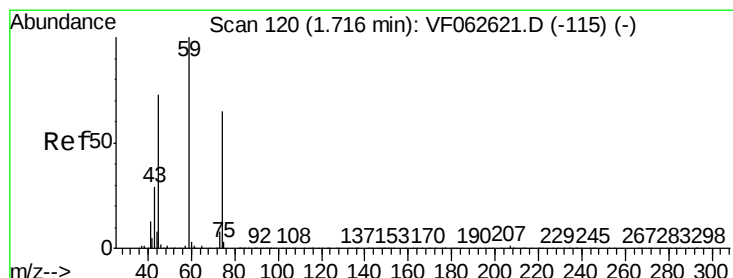
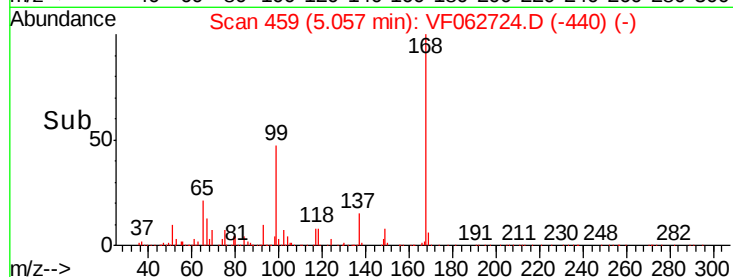
150000

100000

50000

0

Time-->



#8

Diethyl Ether

Concen: 1.895 ug/l

RT: 1.72 min Scan# 120

Delta R.T. 0.00 min

Lab File: VF062724.D

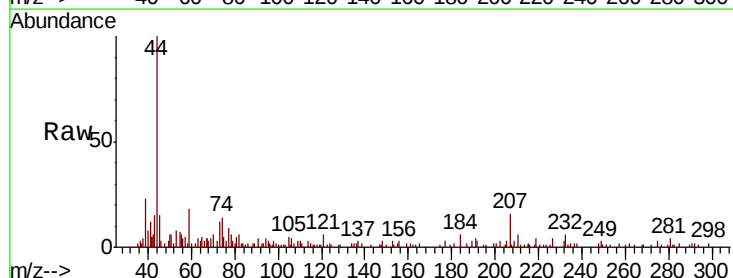
Acq: 23 May 2019 14:01

Tgt Ion: 74 Resp: 4564

Ion Ratio Lower Upper

74 100

45 112.2 57.0 170.8



Abundance Ion 74.00 (73.70 to 74.70): VF0

Ion 45.00 (44.70 to 45.70): VF0

1.72

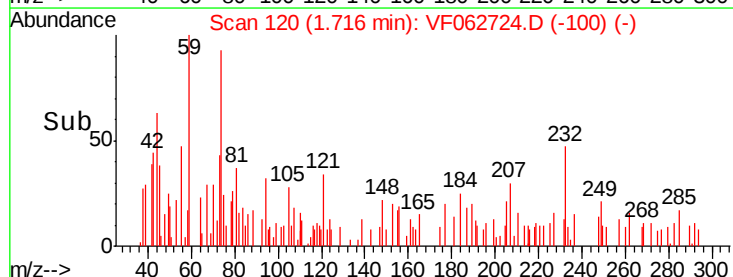
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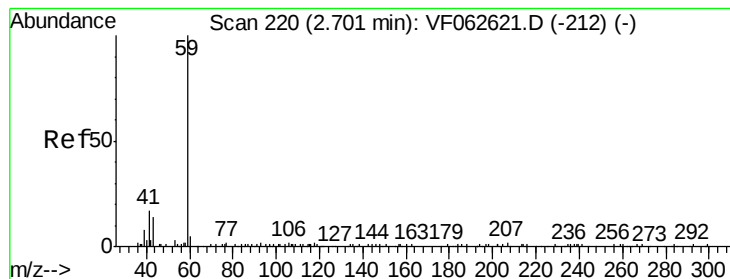
1000

500

0

Time-->



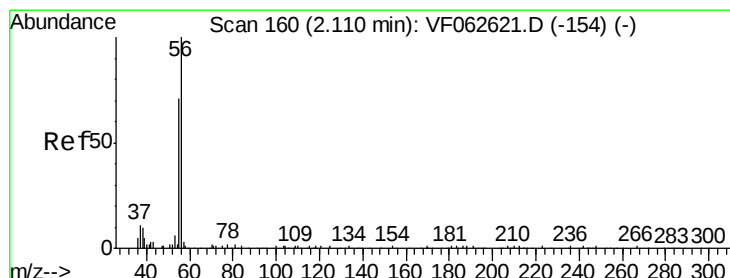
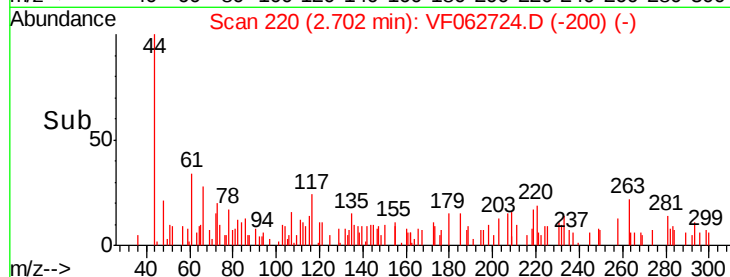
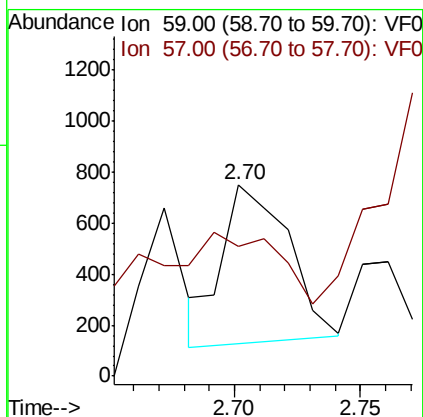
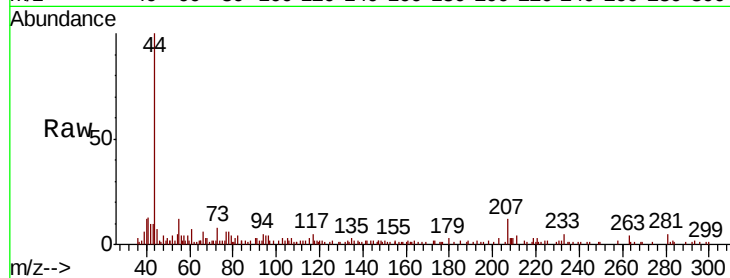


#11

Tert butyl alcohol
 Concen: 3.101 ug/l
 RT: 2.70 min Scan# 220
 Delta R.T. 0.00 min
 Lab File: VF062724.D
 Acq: 23 May 2019 14:01

Instrument :
 MSVOA_F
 ClientSampled :

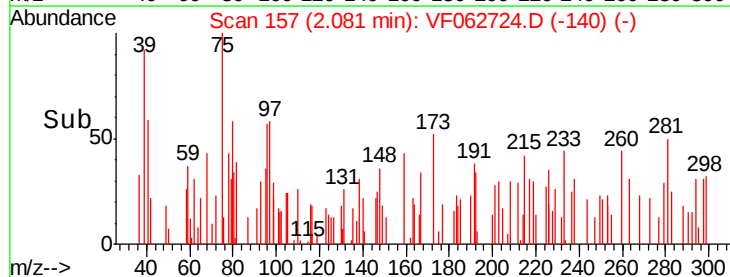
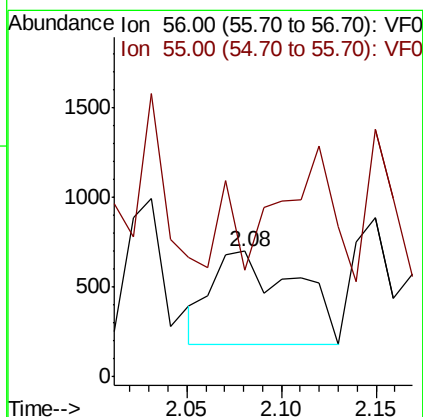
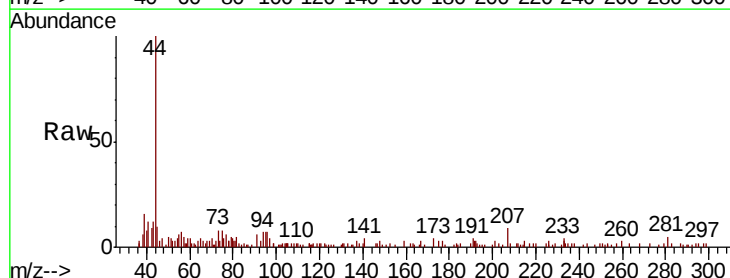
Tot Ion: 59 Resp: 1136
 Ion Ratio Lower Upper
 59 100
 57 67.7 9.3 13.9#

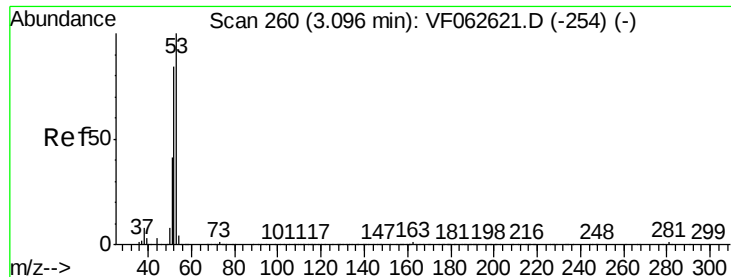


#13

Acrolein
 Concen: 4.132 ug/l
 RT: 2.08 min Scan# 157
 Delta R.T. -0.03 min
 Lab File: VF062724.D
 Acq: 23 May 2019 14:01

Tgt Ion: 56 Resp: 1580
 Ion Ratio Lower Upper
 56 100
 55 84.5 59.4 89.0





#15

Acrylonitrile

Concen: 1.415 ug/l

RT: 3.08 min Scan# 258

Delta R.T. -0.02 min

Lab File: VF062724.D

Acq: 23 May 2019 14:01

Instrument :
MSVOA_F
ClientSampled :

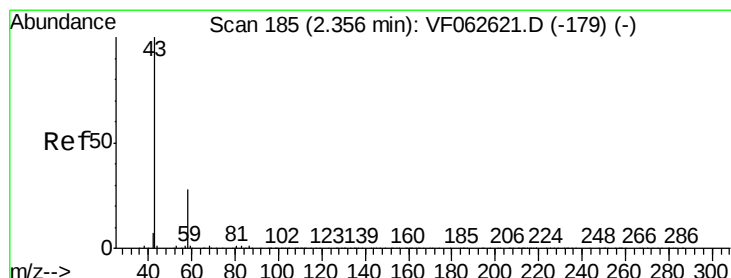
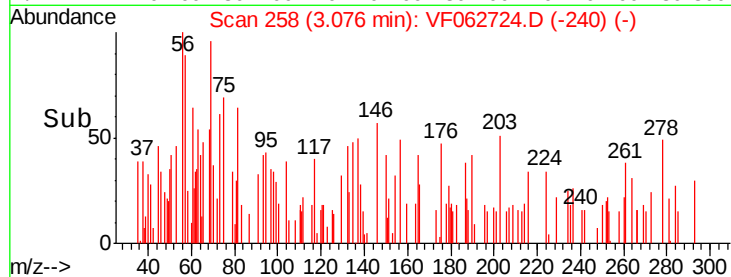
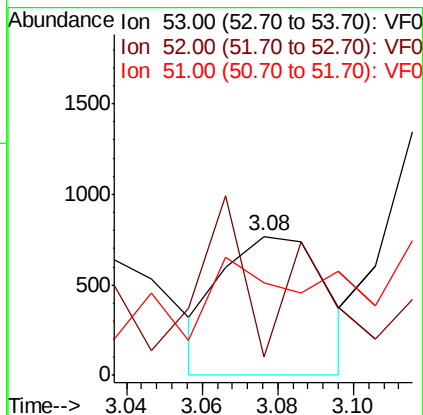
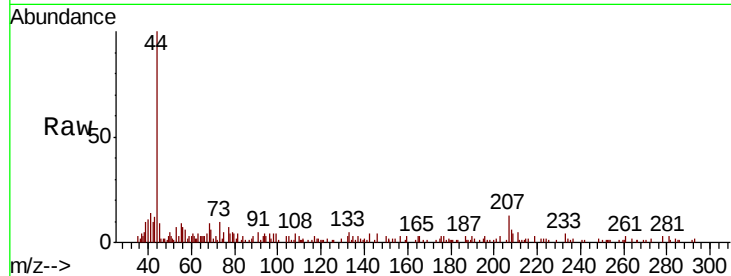
Tot Ion: 53 Resp: 1462

Ion Ratio Lower Upper

53 100

52 13.3 67.3 100.9#

51 67.1 33.0 49.6#



#16

Acetone

Concen: 5.588 ug/l

RT: 2.36 min Scan# 185

Delta R.T. 0.00 min

Lab File: VF062724.D

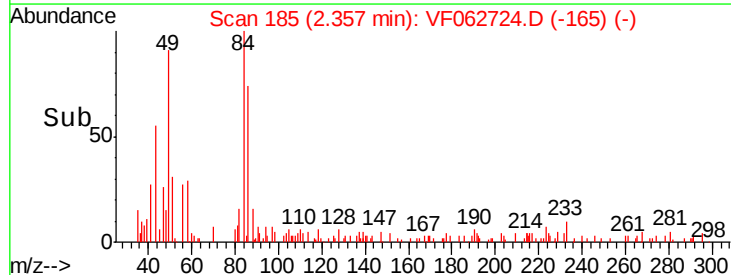
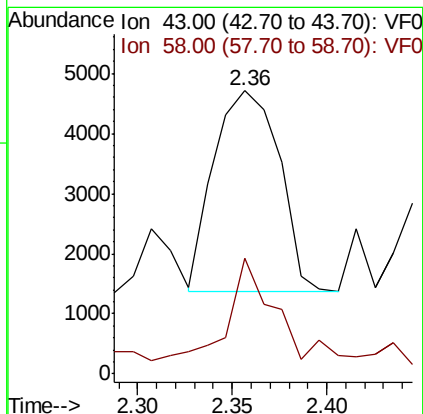
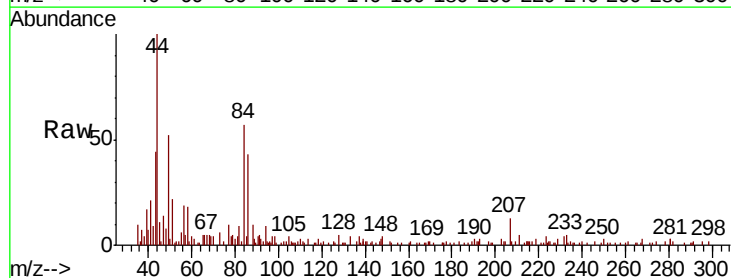
Acq: 23 May 2019 14:01

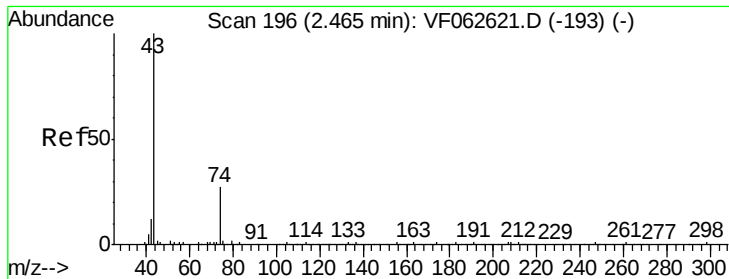
Tgt Ion: 43 Resp: 8043

Ion Ratio Lower Upper

43 100

58 40.7 22.6 33.8#

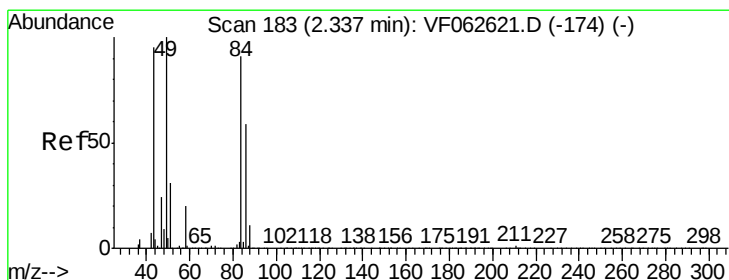
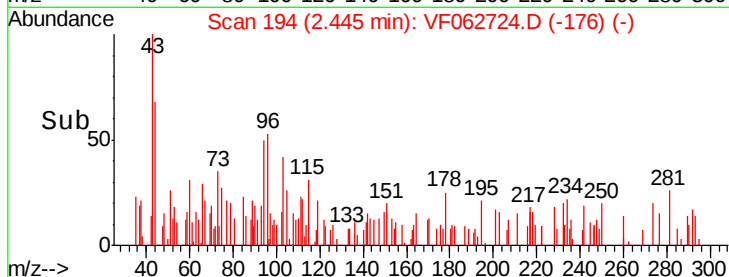
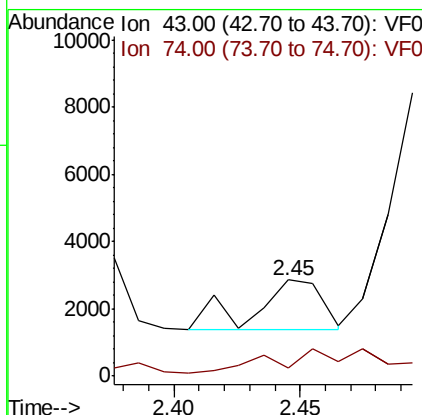
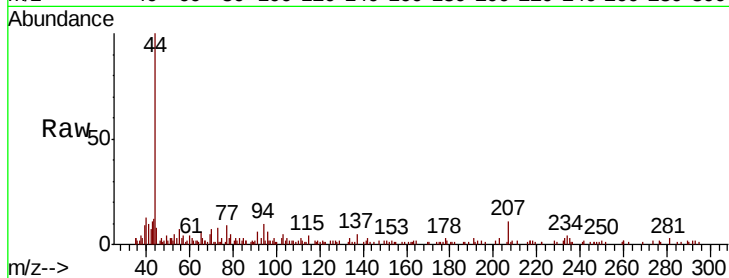




#18
Methvl Acetate
Concen: 1.238 ug/l
RT: 2.45 min Scan# 194
Delta R.T. -0.02 min
Lab File: VF062724.D
Acq: 23 May 2019 14:01

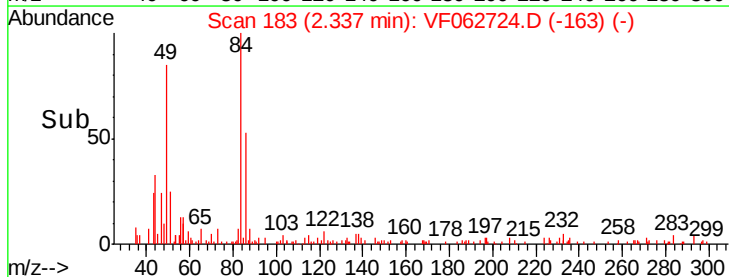
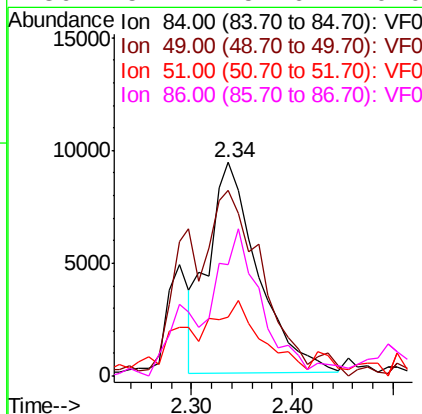
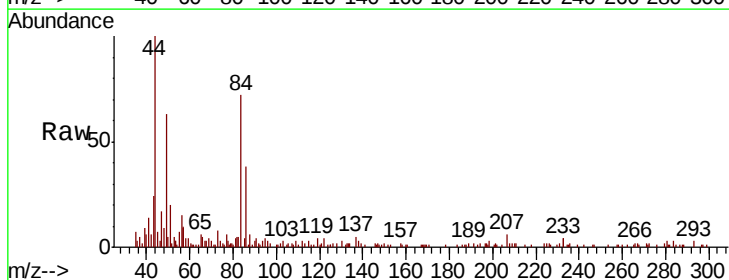
Instrument :
MSVOA_F
ClientSampleId :

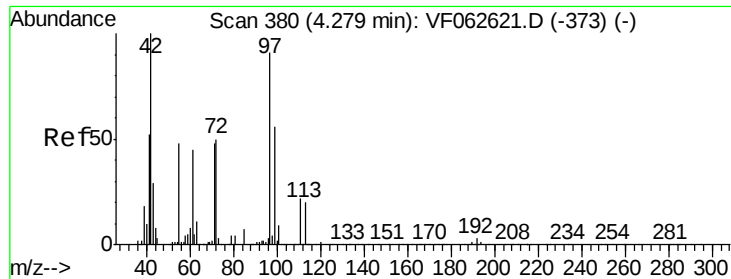
Tot Ion: 43 Resp: 2800
Ion Ratio Lower Upper
43 100
74 8.5 18.9 28.3#



#20
Methylene Chloride
Concen: 4.428 ug/l
RT: 2.34 min Scan# 183
Delta R.T. 0.00 min
Lab File: VF062724.D
Acq: 23 May 2019 14:01

Tgt Ion: 84 Resp: 31947
Ion Ratio Lower Upper
84 100
49 86.9 89.8 134.8#
51 27.6 28.4 42.6#
86 52.2 52.6 79.0#





#29

Tetrahydrofuran

Concen: 3.074 ug/l

RT: 4.28 min Scan# 380

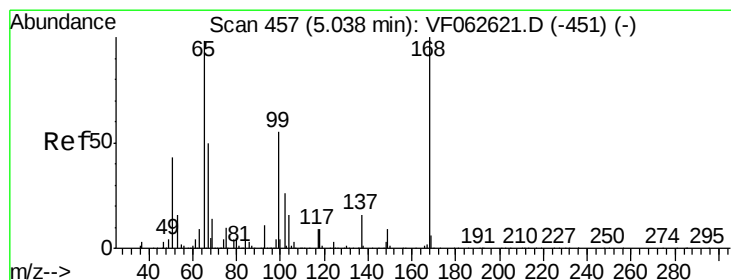
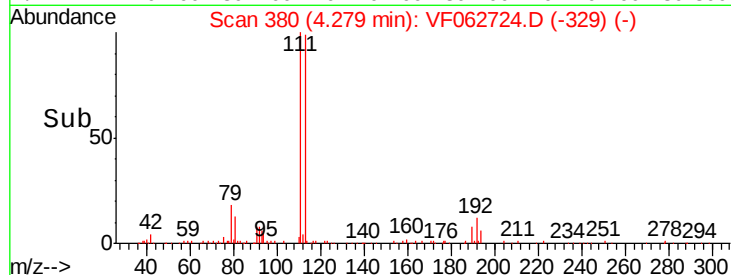
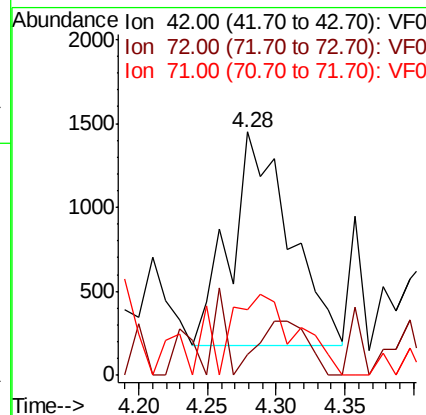
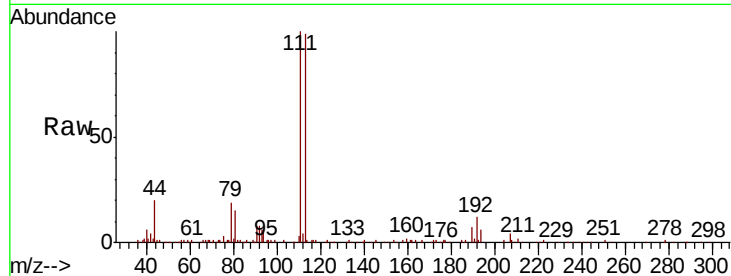
Delta R.T. 0.00 min

Lab File: VF062724.D

Acq: 23 May 2019 14:01

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
42	100		
72	0.0	38.2	57.2#
71	45.7	35.8	53.6



#33

1,2-Dichloroethane-d4

Concen: 52.746 ug/l

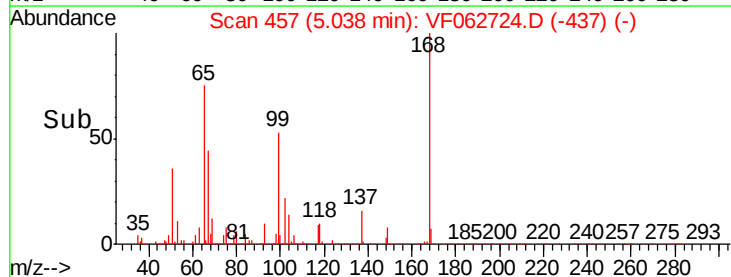
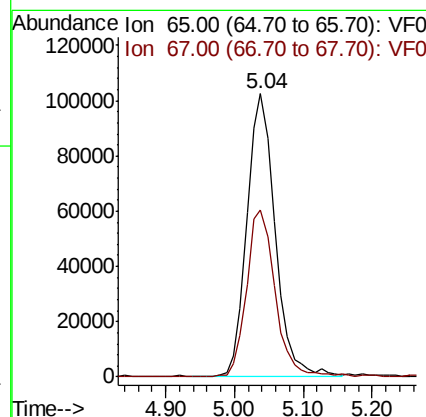
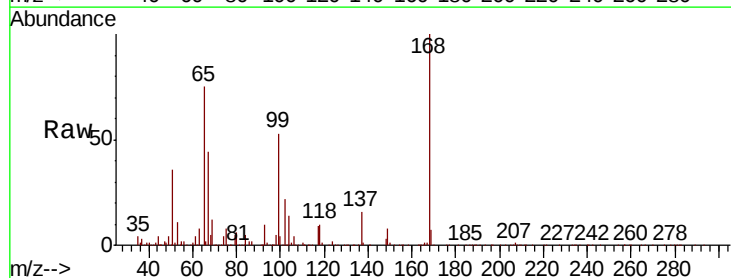
RT: 5.04 min Scan# 457

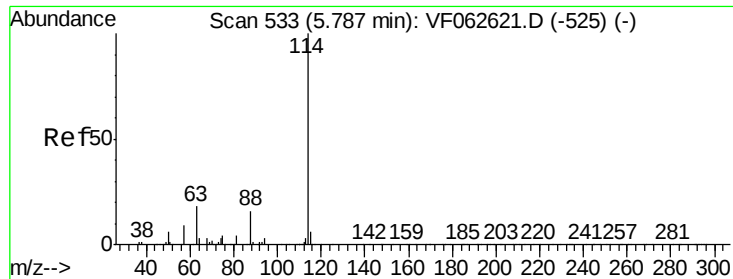
Delta R.T. 0.00 min

Lab File: VF062724.D

Acq: 23 May 2019 14:01

Tgt Ion	Ratio	Lower	Upper
65	100		
67	58.8	0.0	117.6

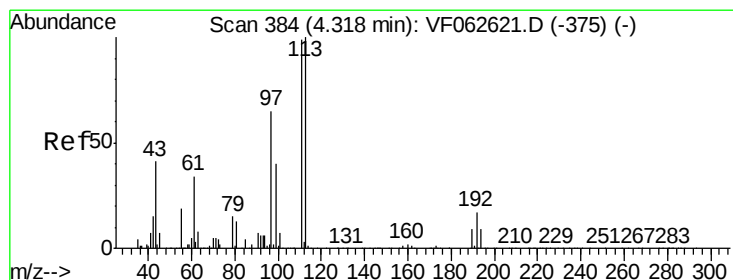
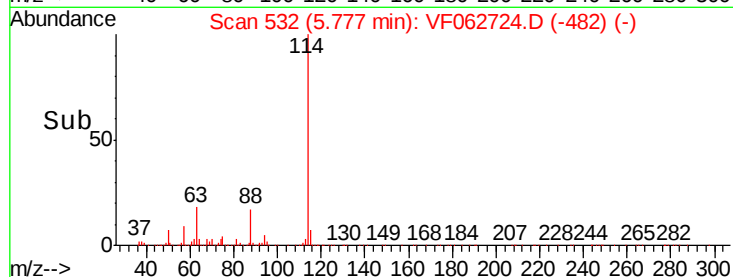
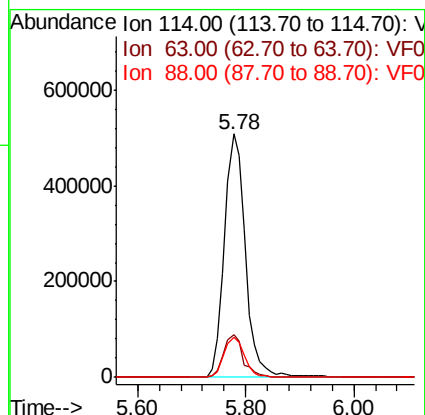
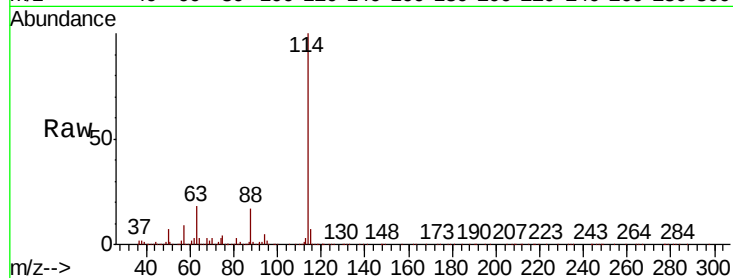




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.78 min Scan# 532
 Delta R.T. -0.01 min
 Lab File: VF062724.D
 Acq: 23 May 2019 14:01

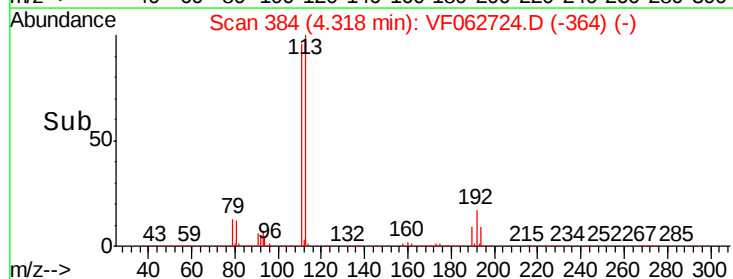
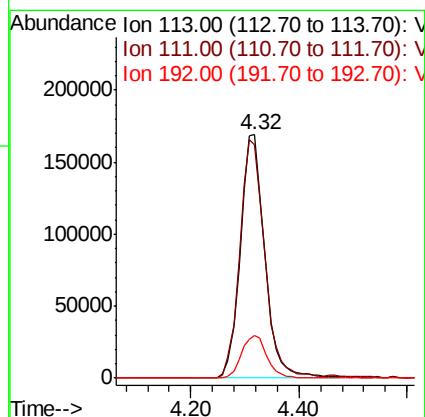
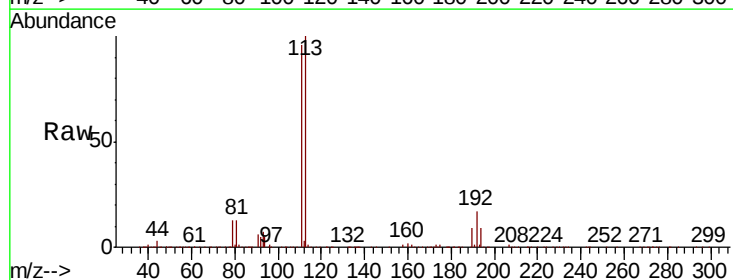
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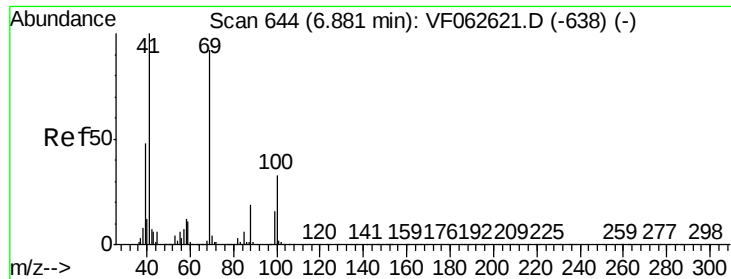
Tot Ion:114 Resp: 1368906
 Ion Ratio Lower Upper
 114 100
 63 17.6 0.0 35.4
 88 16.7 0.0 32.4



#35
 Dibromofluoromethane
 Concen: 50.887 ug/l
 RT: 4.32 min Scan# 384
 Delta R.T. 0.00 min
 Lab File: VF062724.D
 Acq: 23 May 2019 14:01

Tgt Ion:113 Resp: 533039
 Ion Ratio Lower Upper
 113 100
 111 95.6 79.4 119.2
 192 17.4 13.4 20.2





#49

1,4-Dioxane

Concen: 3.724 ug/l

RT: 6.88 min Scan# 644

Delta R.T. 0.00 min

Lab File: VF062724.D

Acq: 23 May 2019 14:01

Instrument :
MSVOA_F
ClientSampleId :

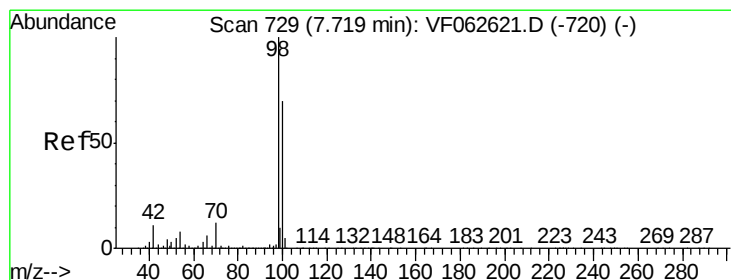
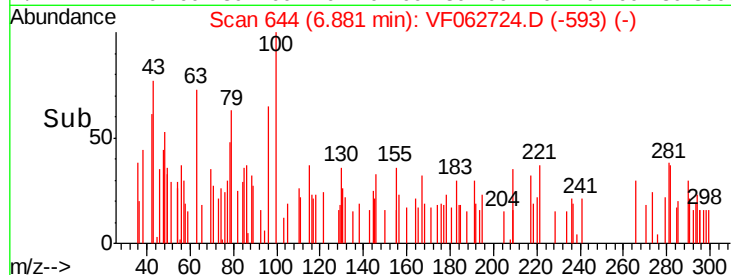
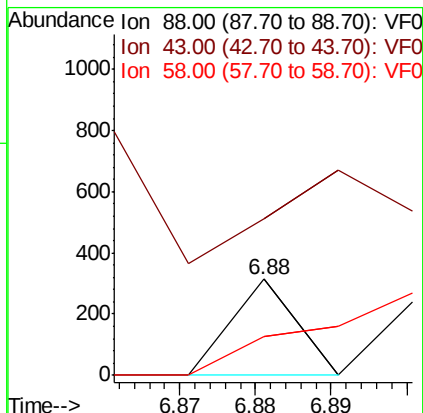
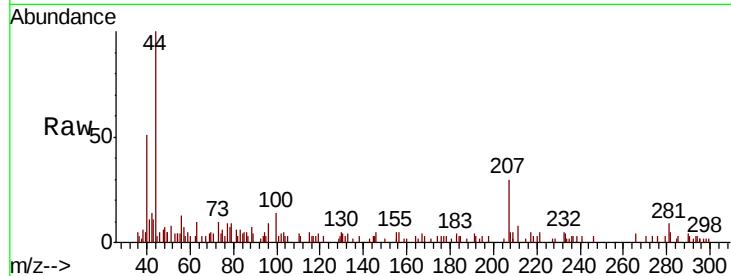
Tot Ion: 88 Resp: 185

Ion Ratio Lower Upper

88 100

43 163.3 30.0 45.0#

58 40.9 51.1 76.7#



#50

Toluene-d8

Concen: 43.297 ug/l

RT: 7.71 min Scan# 728

Delta R.T. -0.01 min

Lab File: VF062724.D

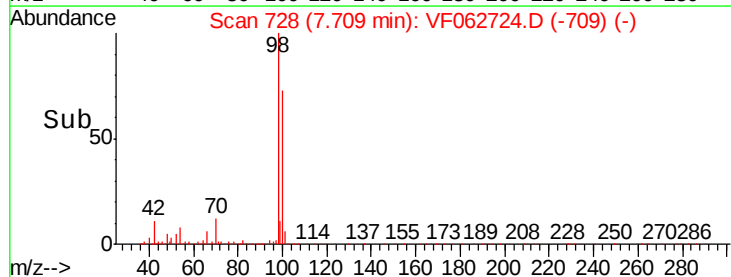
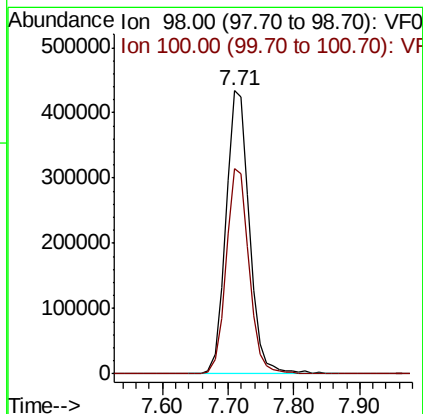
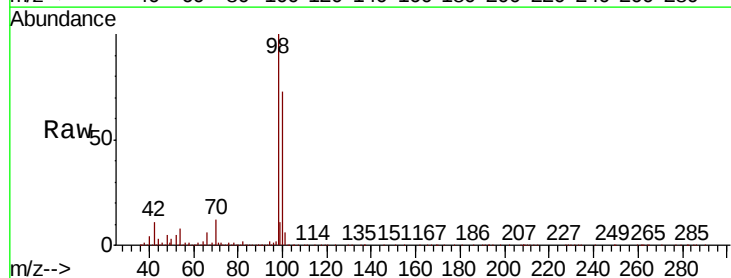
Acq: 23 May 2019 14:01

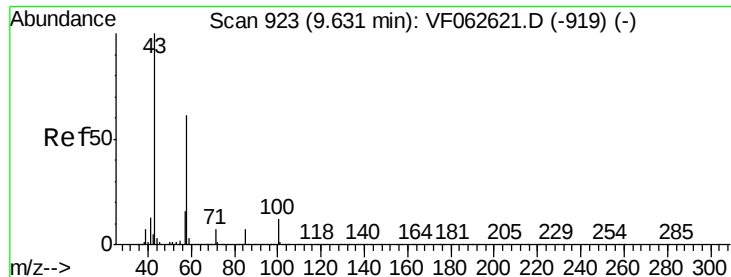
Tgt Ion: 98 Resp: 1082872

Ion Ratio Lower Upper

98 100

100 72.6 56.2 84.2

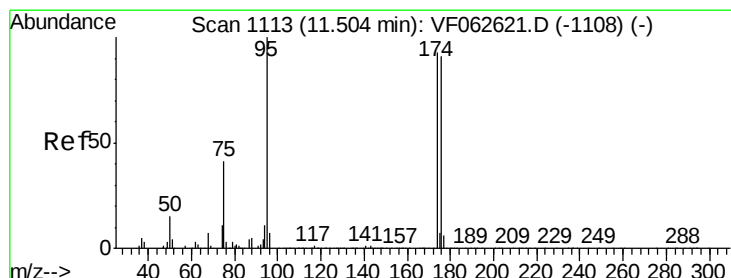
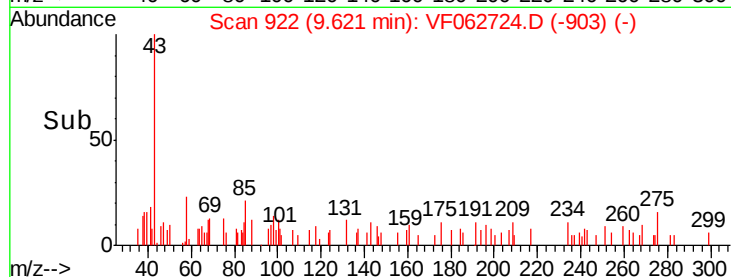
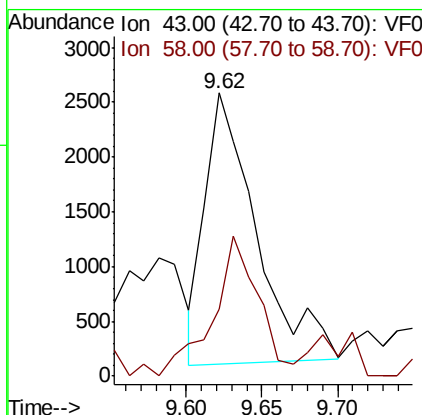
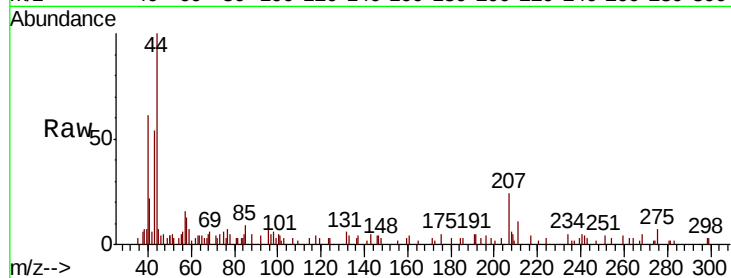




#59
2-Hexanone
Concen: Below Cal
RT: 9.62 min Scan# 922
Delta R.T. -0.01 min
Lab File: VF062724.D
Acq: 23 May 2019 14:01

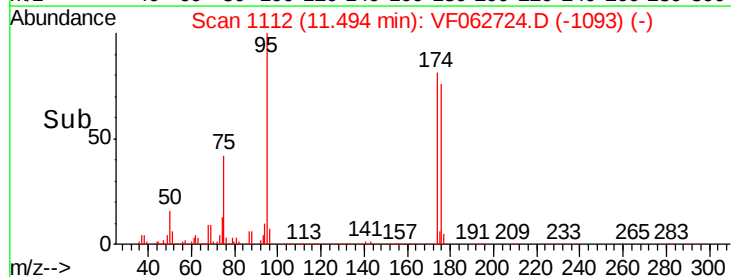
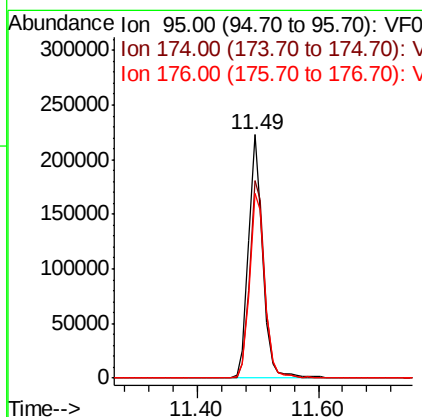
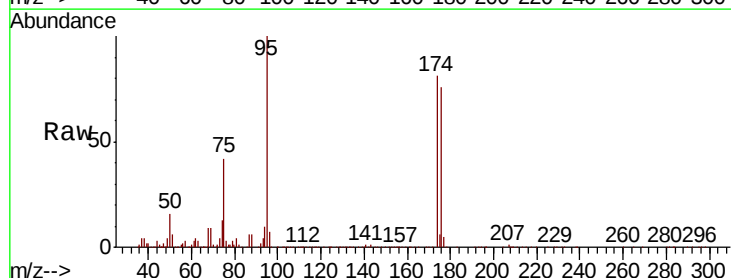
Instrument :
MSVOA_F
ClientSampled :

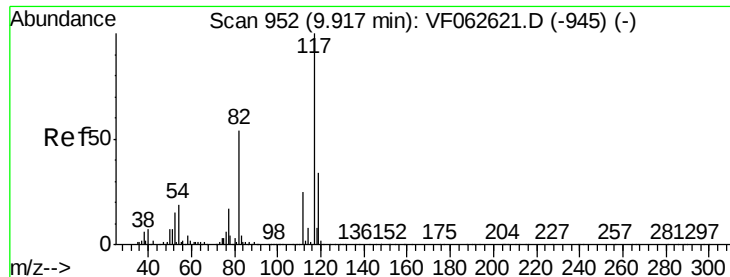
Tot Ion: 43 Resp: 5858
Ion Ratio Lower Upper
43 100
58 23.7 28.1 84.4#



#62
4-Bromofluorobenzene
Concen: 38.544 ug/l
RT: 11.49 min Scan# 1112
Delta R.T. -0.01 min
Lab File: VF062724.D
Acq: 23 May 2019 14:01

Tgt Ion: 95 Resp: 365607
Ion Ratio Lower Upper
95 100
174 80.9 0.0 185.6
176 76.1 0.0 182.4

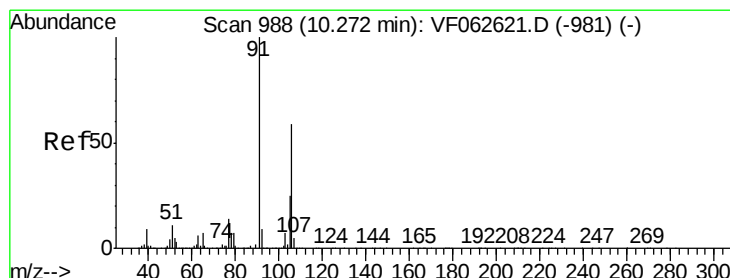
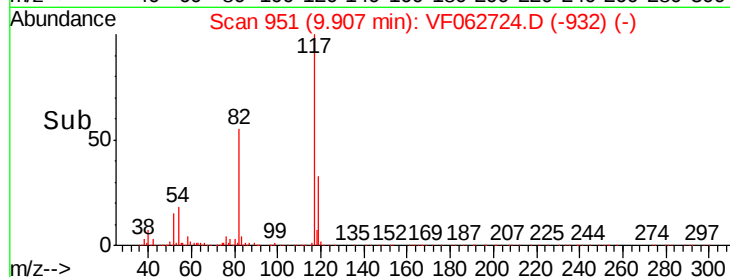
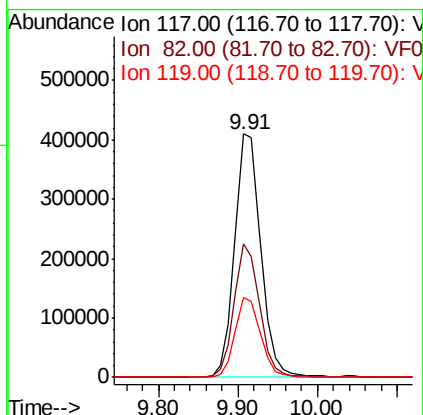
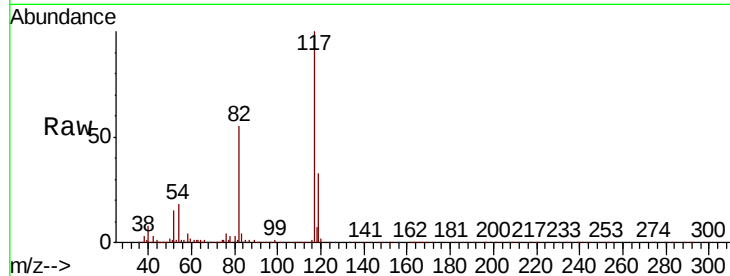




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.91 min Scan# 951
Delta R.T. -0.01 min
Lab File: VF062724.D
Acq: 23 May 2019 14:01

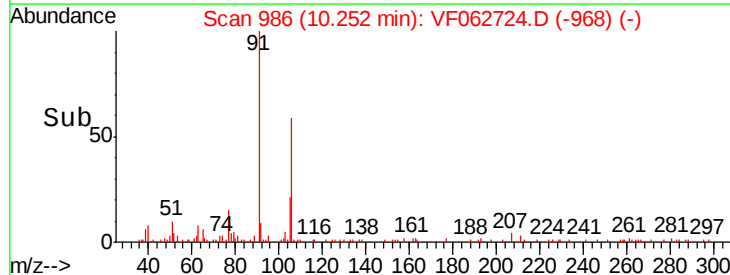
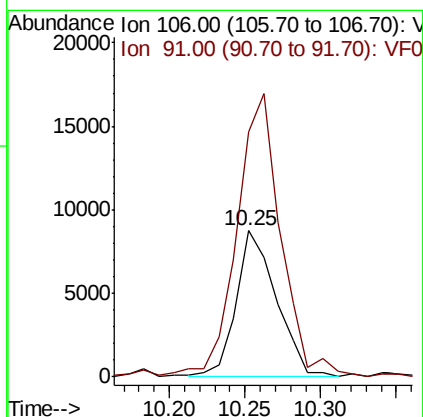
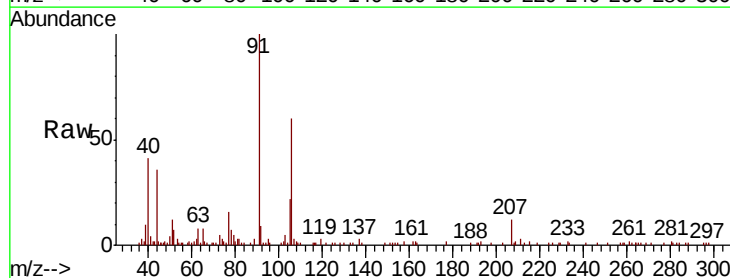
Instrument :
MSVOA_F
ClientSampleId :

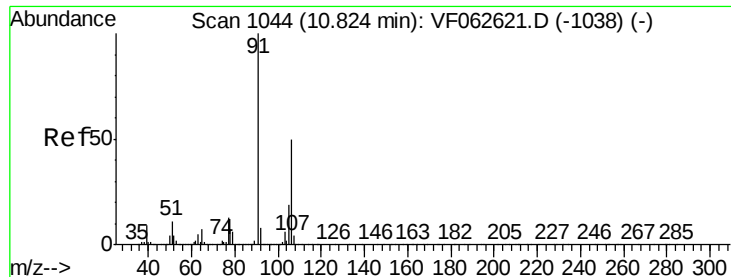
Tot Ion	Ratio	Lower	Upper
117	100		
82	54.7	43.3	64.9
119	32.8	27.4	41.0



#68
m/p-Xylenes
Concen: 1.338 ug/l
RT: 10.25 min Scan# 986
Delta R.T. -0.02 min
Lab File: VF062724.D
Acq: 23 May 2019 14:01

Tgt Ion	Ratio	Lower	Upper
106	100		
91	167.5	136.9	205.3

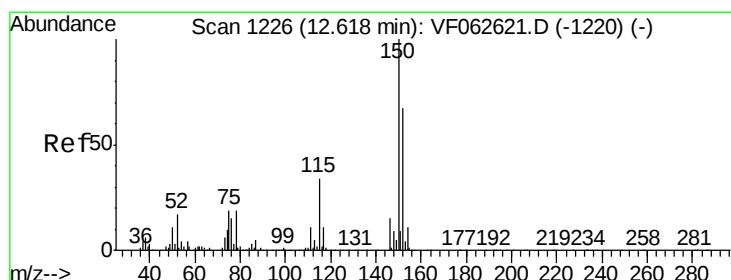
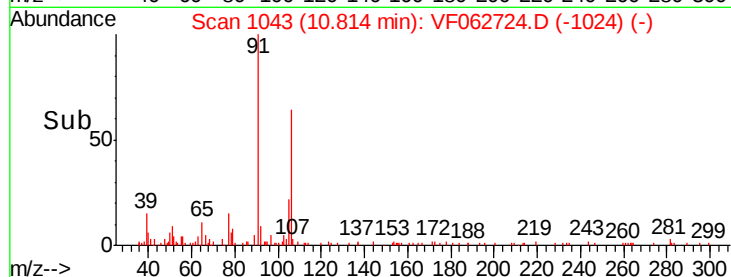
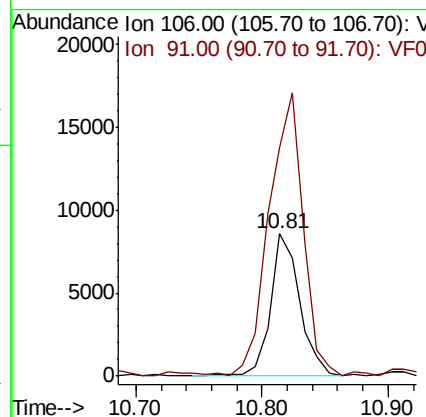
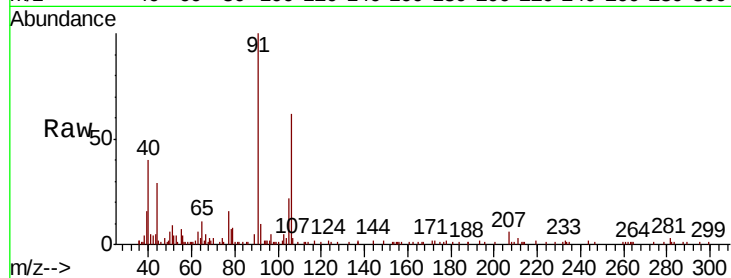




#69
o-Xylene
Concen: 1.114 ug/l
RT: 10.81 min Scan# 1043
Delta R.T. -0.01 min
Lab File: VF062724.D
Acq: 23 May 2019 14:01

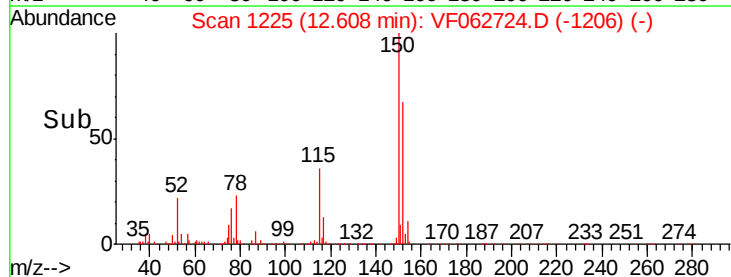
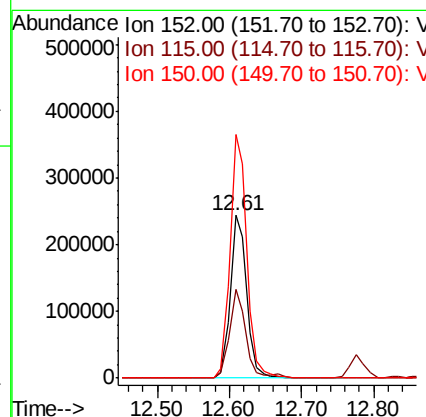
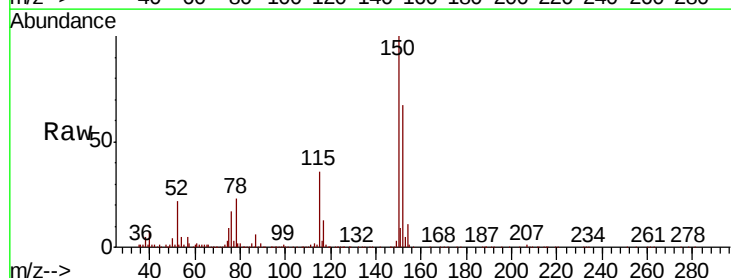
Instrument :
MSVOA_F
ClientSampled :

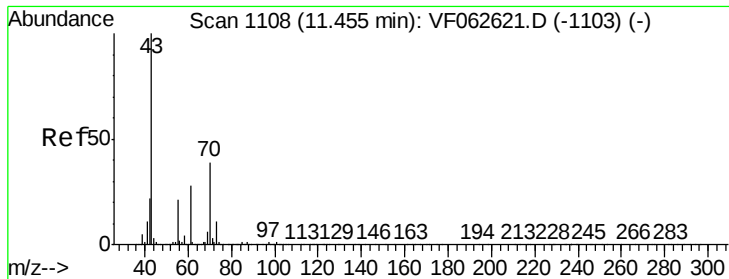
Tot Ion:106 Resp: 13909
Ion Ratio Lower Upper
106 100
91 161.1 100.2 300.5



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.61 min Scan# 1225
Delta R.T. -0.01 min
Lab File: VF062724.D
Acq: 23 May 2019 14:01

Tgt Ion:152 Resp: 385566
Ion Ratio Lower Upper
152 100
115 54.4 25.2 75.6
150 149.9 0.0 306.2





#74

N-amvl acetate

Concen: Below Cal

RT: 11.45 min Scan# 1108

Delta R.T. 0.00 min

Lab File: VF062724.D

Acq: 23 May 2019 14:01

Instrument :

MSVOA_F

ClientSampleId :

Tot Ion: 43 Resp: 3421

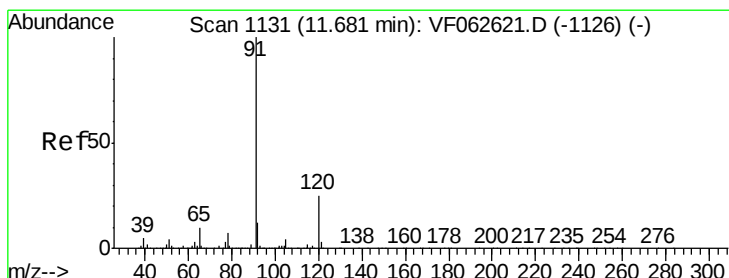
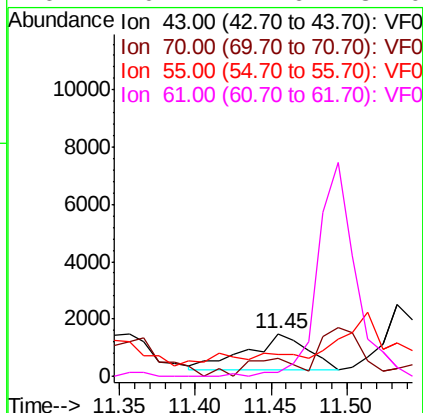
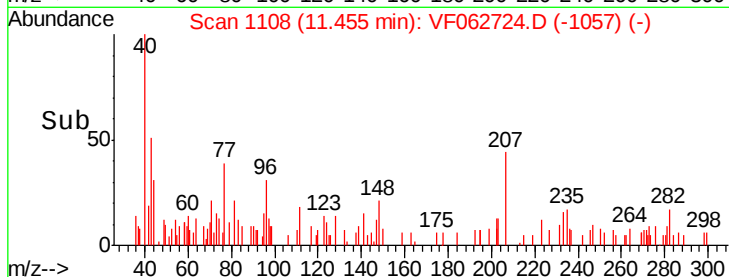
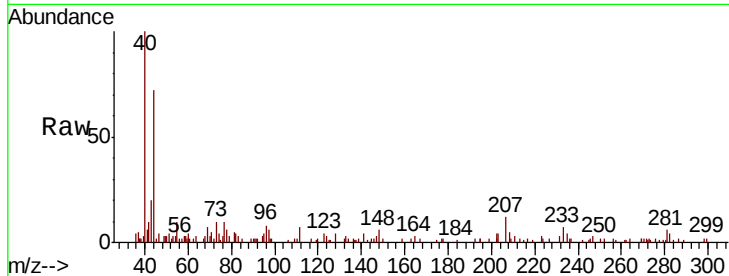
Ion Ratio Lower Upper

43 100

70 42.7 30.9 46.3

55 52.0 17.0 25.4#

61 10.2 22.6 34.0#



#78

n-propylbenzene

Concen: 1.205 ug/l

RT: 11.67 min Scan# 1130

Delta R.T. -0.01 min

Lab File: VF062724.D

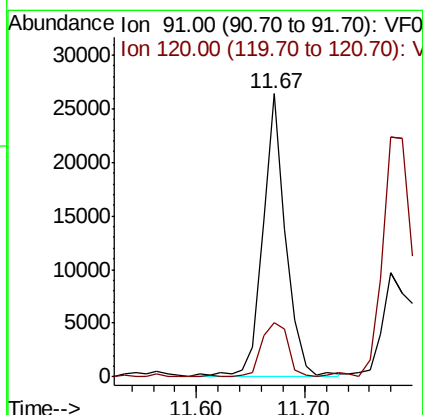
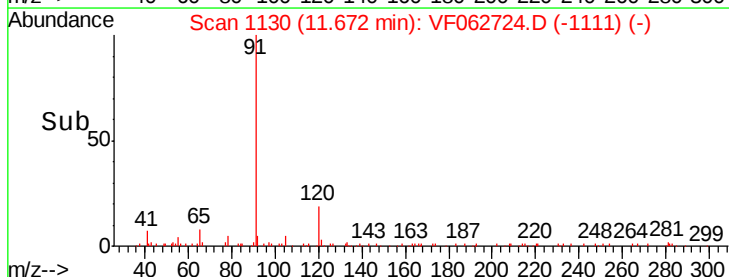
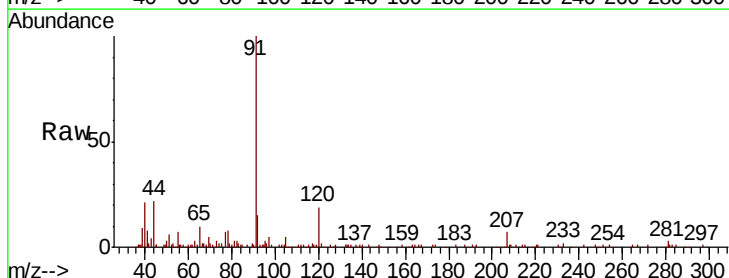
Acq: 23 May 2019 14:01

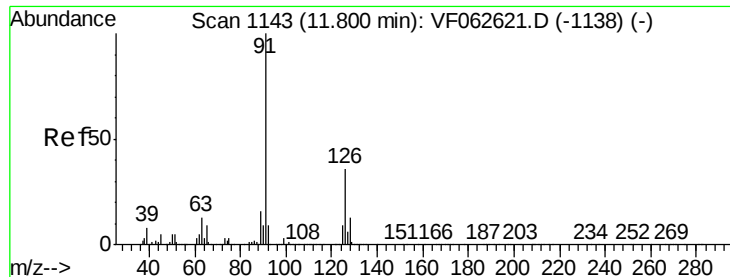
Tgt Ion: 91 Resp: 39410

Ion Ratio Lower Upper

91 100

120 19.2 12.7 38.1





#79

2-Chlorotoluene

Concen: 1.053 ug/l

RT: 11.78 min Scan# 1141

Delta R.T. -0.02 min

Lab File: VF062724.D

Acq: 23 May 2019 14:01

Instrument :

MSVOA_F

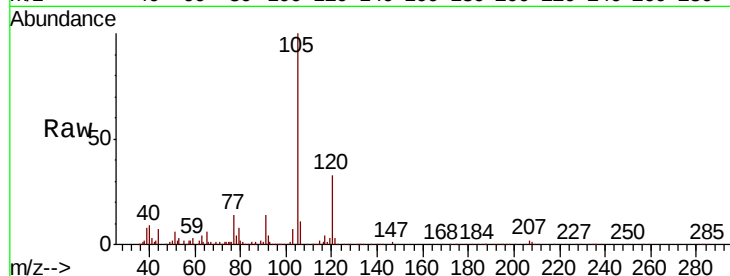
ClientSampleId :

Tot Ion: 91 Resp: 19405

Ion Ratio Lower Upper

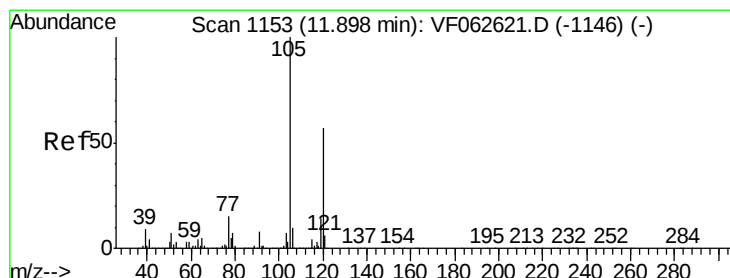
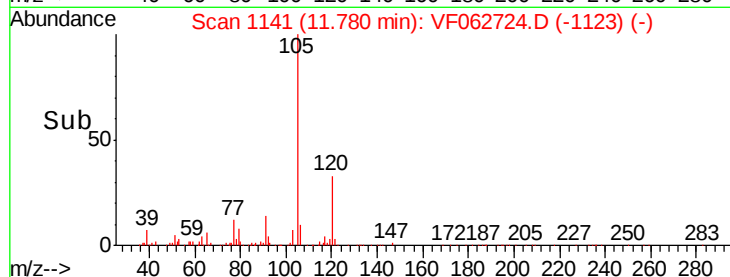
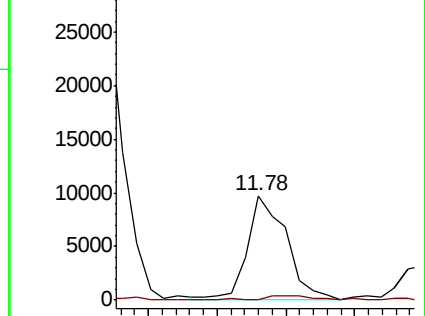
91 100

126 0.0 18.1 54.4#



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 126.00 (125.70 to 126.70): V



#80

1,3,5-Trimethylbenzene

Concen: 2.347 ug/l

RT: 11.90 min Scan# 1153

Delta R.T. 0.00 min

Lab File: VF062724.D

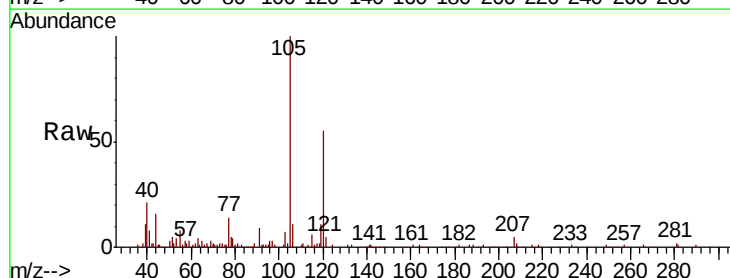
Acq: 23 May 2019 14:01

Tgt Ion:105 Resp: 52008

Ion Ratio Lower Upper

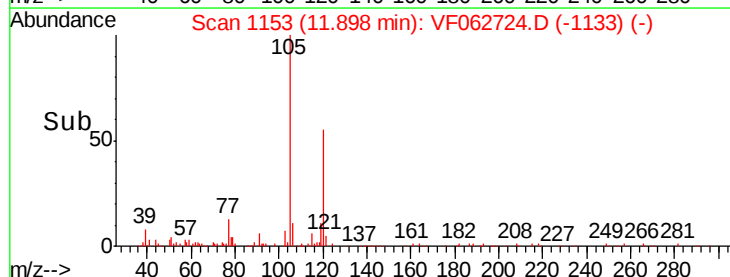
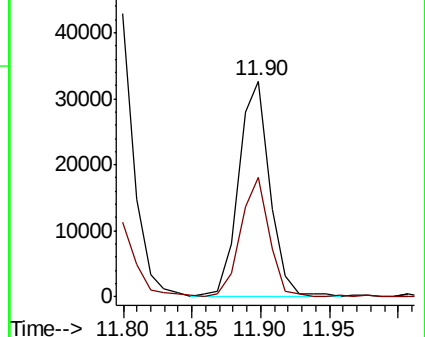
105 100

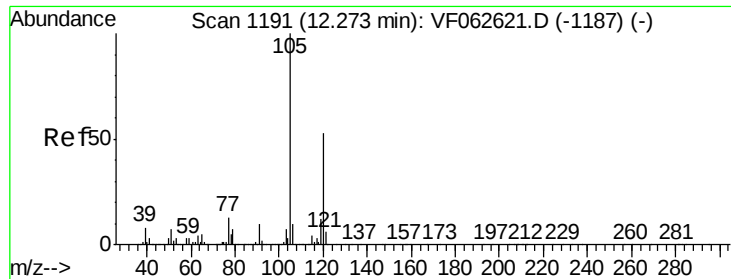
120 55.1 28.7 86.3



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#84

1,2,4-Trimethylbenzene

Concen: 11.144 ug/l

RT: 12.27 min Scan# 1191

Delta R.T. 0.00 min

Lab File: VF062724.D

Acq: 23 May 2019 14:01

Instrument :

MSVOA_F

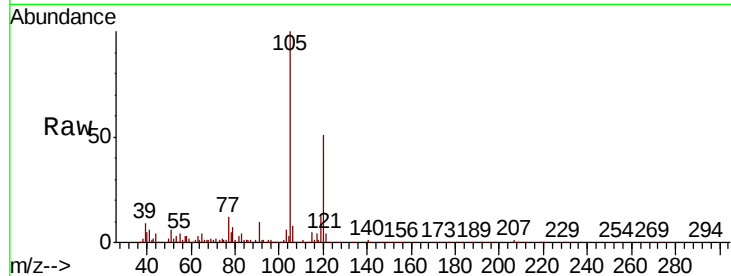
ClientSampleId :

Tot Ion:105 Resp: 238990

Ion Ratio Lower Upper

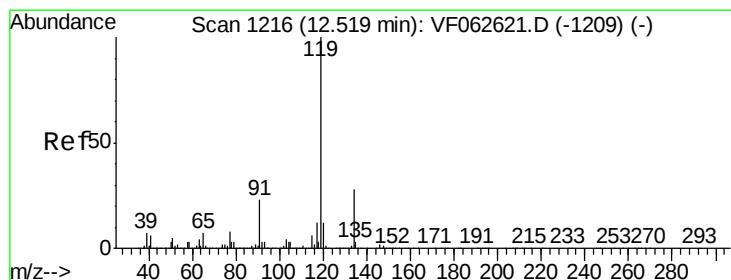
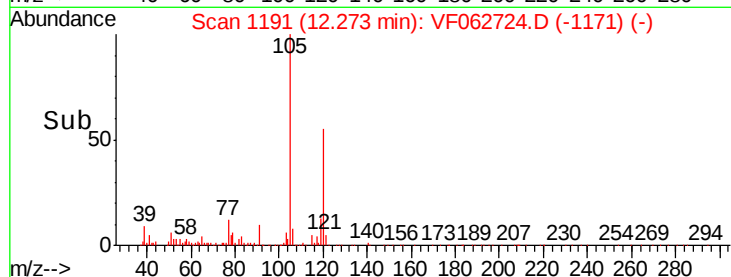
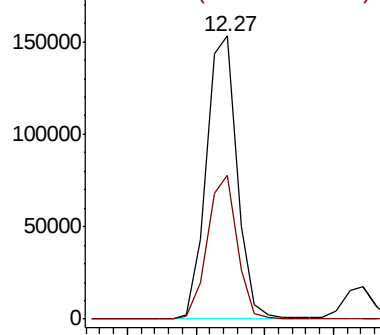
105 100

120 50.8 26.7 80.1



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#86

p-Isopropyltoluene

Concen: 1.827 ug/l

RT: 12.49 min Scan# 1213

Delta R.T. -0.03 min

Lab File: VF062724.D

Acq: 23 May 2019 14:01

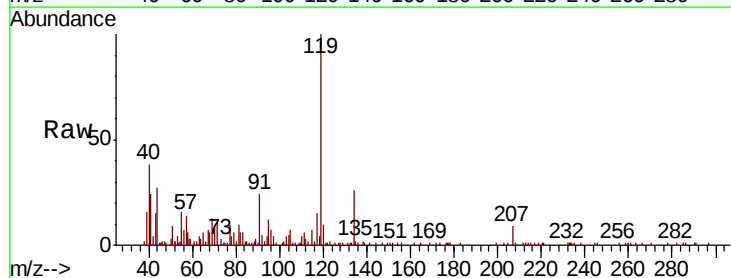
Tgt Ion:119 Resp: 46446

Ion Ratio Lower Upper

119 100

134 25.8 14.1 42.3

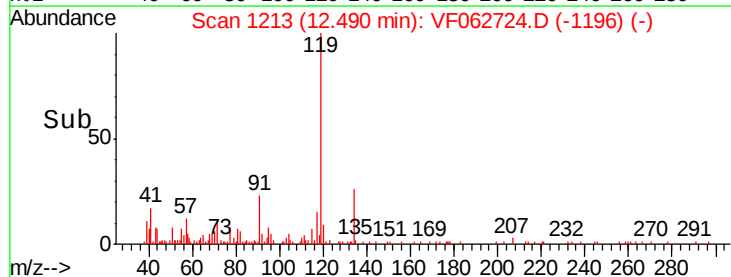
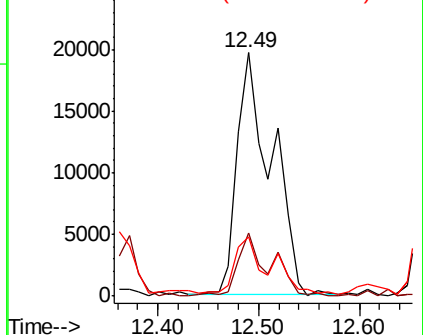
91 24.2 11.4 34.2

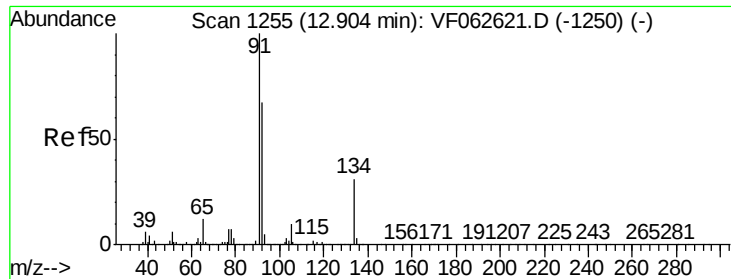


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V





#89

n-Butylbenzene

Concen: 3.055 ug/l

RT: 12.89 min Scan# 1254

Delta R.T. -0.01 min

Lab File: VF062724.D

Acq: 23 May 2019 14:01

Instrument :

MSVOA_F

ClientSampleId :

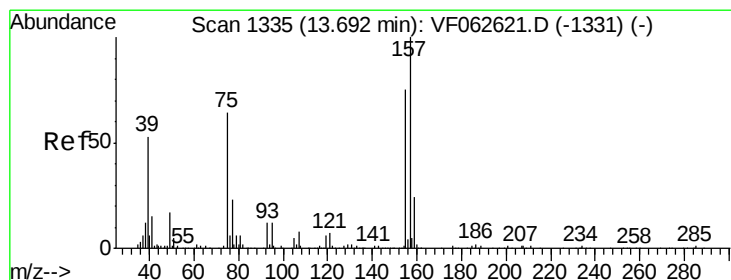
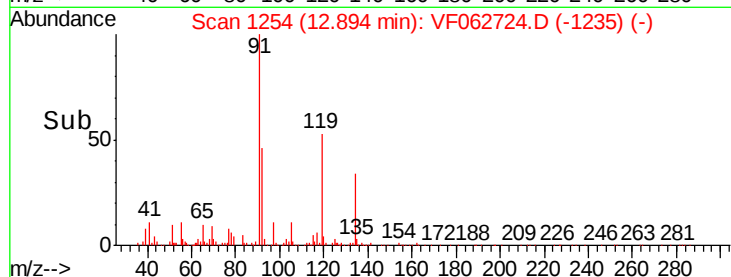
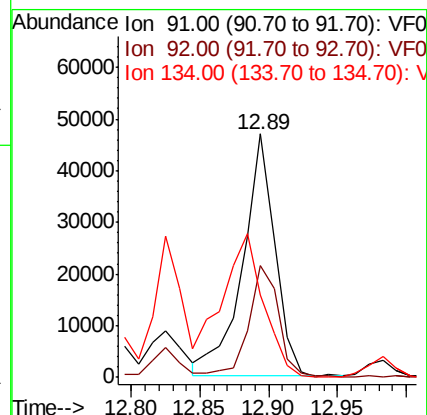
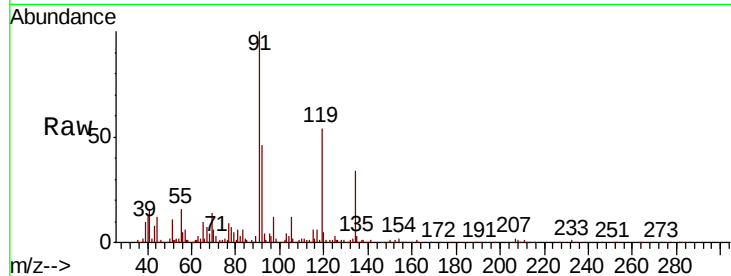
Tot Ion: 91 Resp: 76593

Ion Ratio Lower Upper

91 100

92 45.7 33.3 99.8

134 34.0 15.4 46.4



#92

1,2-Dibromo-3-Chloropropane

Concen: 3.737 ug/l

RT: 13.65 min Scan# 1331

Delta R.T. -0.04 min

Lab File: VF062724.D

Acq: 23 May 2019 14:01

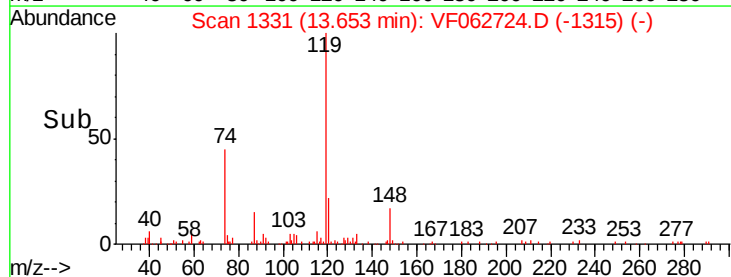
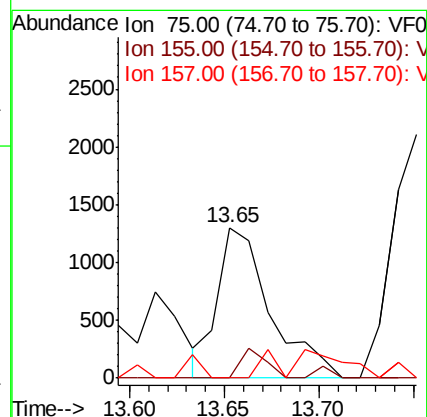
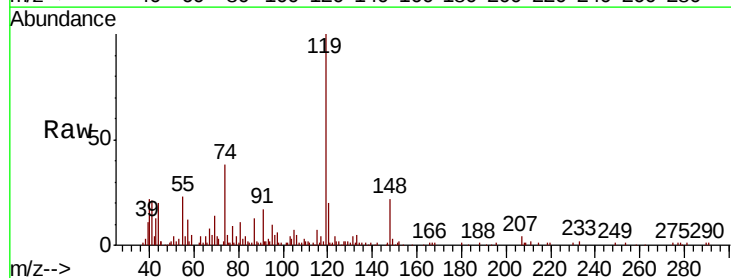
Tgt Ion: 75 Resp: 2518

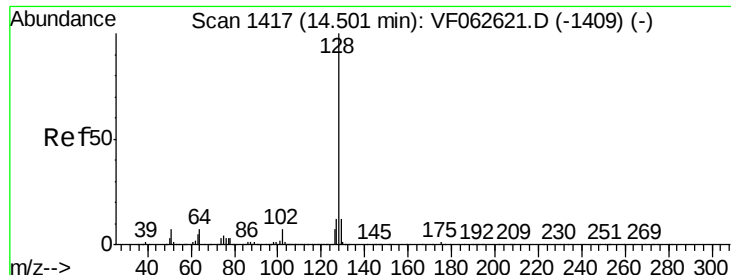
Ion Ratio Lower Upper

75 100

155 0.0 58.1 174.3#

157 10.7 77.8 233.4#

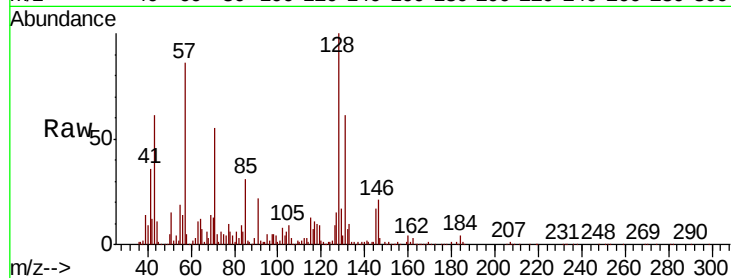




#95
Naphthalene
Concen: 6.504 ug/l
RT: 14.49 min Scan# 1416
Delta R.T. -0.01 min
Lab File: VF062724.D
Acq: 23 May 2019 14:01

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
128	100		
127	15.2	9.7	14.5#
129	16.5	9.3	13.9#



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

