

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF012119\
 Data File : VF061474.D
 Acq On : 21 Jan 2019 15:28
 Operator : VA/AP
 Sample : K1009-05RE
 Misc : 6.76g/5mL/MSVOA-F/SOIL
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 CL-01-011819-CRE

Quant Time: Jan 22 06:30:08 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F011519S.M
 Quant Title : SW846 8260
 QLast Update : Wed Jan 16 04:51:59 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.87	168	195120	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.60	114	357511	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.77	117	287151	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.55	152	126239	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	4.84	65	136387	56.62	ug/l	0.00
Spiked Amount	50.000		Recovery	=	113.24%	
35) Dibromofluoromethane	4.11	113	170187	60.33	ug/l	0.00
Spiked Amount	50.000		Recovery	=	120.66%	
50) Toluene-d8	7.55	98	364608	47.17	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.34%	
62) 4-Bromofluorobenzene	11.41	95	153996	42.64	ug/l	0.00
Spiked Amount	50.000		Recovery	=	85.28%	

Target Compounds

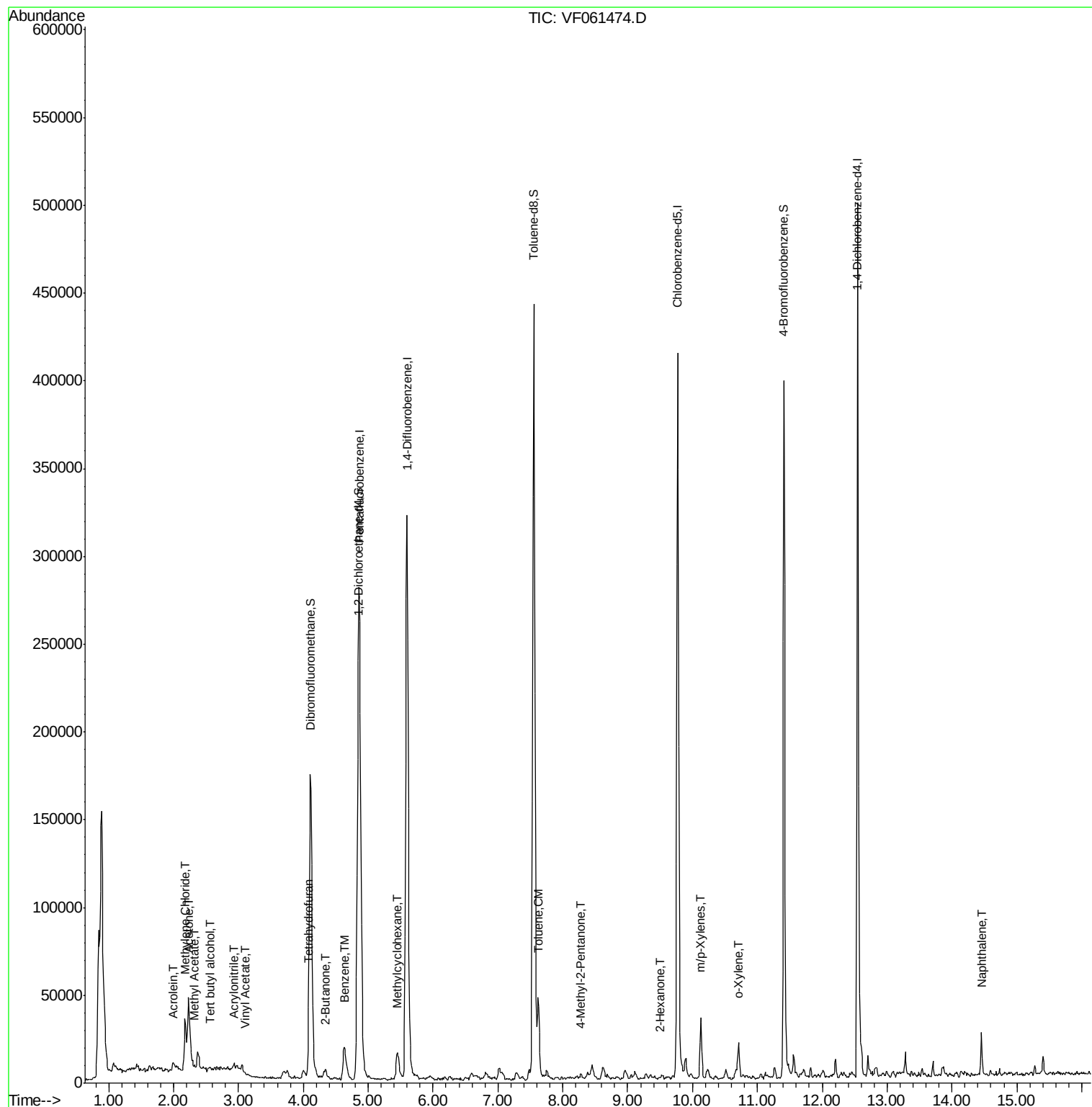
					Qvalue	
11) Tert butyl alcohol	2.56	59	265	2.599	ug/l #	64
13) Acrolein	1.99	56	366	14.332	ug/l	93
14) Allyl chloride	2.06	41	418	Below Cal	#	44
15) Acrylonitrile	2.93	53	728	2.787	ug/l #	33
16) Acetone	2.23	43	38723	80.126	ug/l	100
18) Methyl Acetate	2.32	43	1460	1.523	ug/l #	61
20) Methylene Chloride	2.18	84	12082	5.812	ug/l	92
23) Vinyl Acetate	3.11	43	289	3.299	ug/l #	78
25) 2-Butanone	4.34	43	10242	12.744	ug/l	94
29) Tetrahydrofuran	4.07	42	808	2.335	ug/l #	53
39) Methylcyclohexane	5.45	83	9240	2.057	ug/l #	81
40) Benzene	4.63	78	22920	2.485	ug/l	97
49) 1,4-Dioxane	6.43	88	84	Below Cal	#	1
51) 4-Methyl-2-Pentanone	8.28	43	2370	1.550	ug/l #	39
52) Toluene	7.62	92	21466	3.534	ug/l	89
59) 2-Hexanone	9.49	43	1257	1.179	ug/l	93
68) m/p-Xylenes	10.13	106	11959	3.117	ug/l	93
69) o-Xylene	10.72	106	6932	1.667	ug/l	78
95) Naphthalene	14.46	128	16722	3.097	ug/l #	95

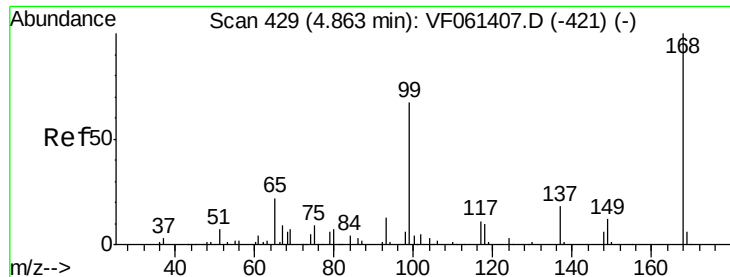
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Wed Jan 16 04:51:59 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.87 min Scan# 430

Delta R.T. 0.00 min

Lab File: VF061474.D

Acq: 21 Jan 2019 15:28

Instrument :

MSVOA_F

ClientSampleId :

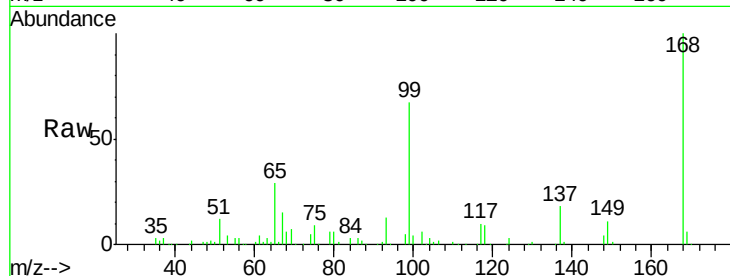
CL-01-011819-CRE

Tot Ion:168 Resp: 195120

Ion Ratio Lower Upper

168 100

99 66.9 53.5 80.3



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.87

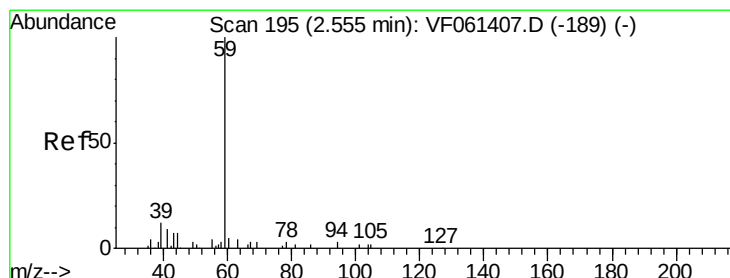
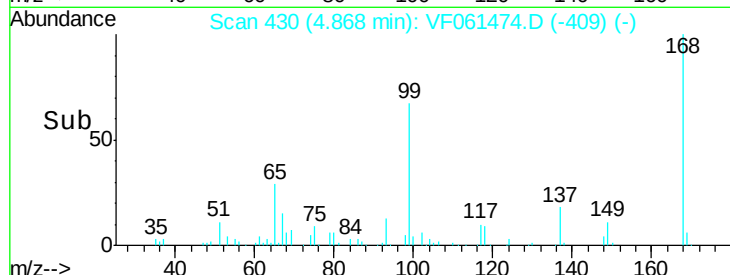
60000

40000

20000

0

Time--> 4.70 4.80 4.90 5.00



#11

Tert butyl alcohol

Concen: 2.599 ug/l

RT: 2.56 min Scan# 196

Delta R.T. 0.00 min

Lab File: VF061474.D

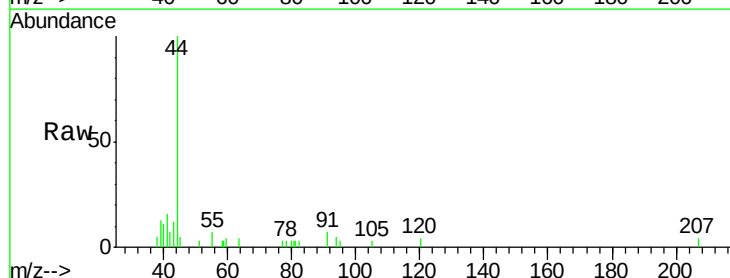
Acq: 21 Jan 2019 15:28

Tgt Ion: 59 Resp: 265

Ion Ratio Lower Upper

59 100

57 0.0 11.9 17.9#



Abundance Ion 59.00 (58.70 to 59.70): VF0

Ion 57.00 (56.70 to 57.70): VF0

2.56

300

250

200

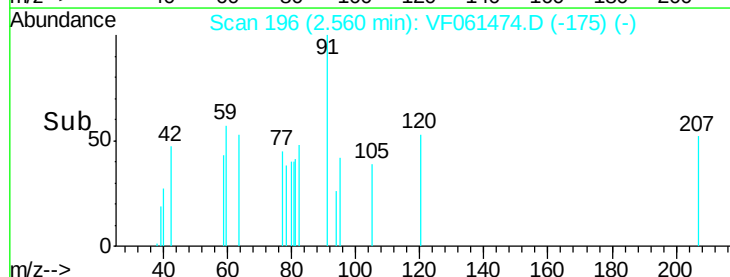
150

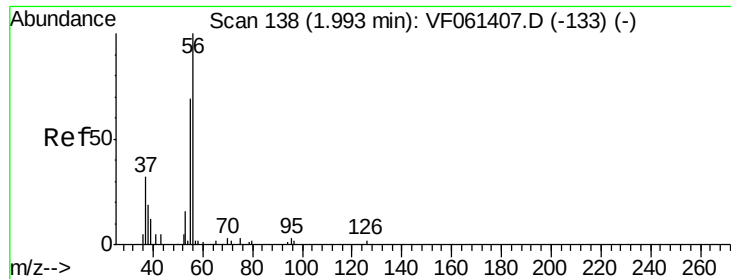
100

50

0

Time--> 2.52 2.54 2.56 2.58





#13

Acrolein

Concen: 14.332 ug/l

RT: 1.99 min Scan# 138

Delta R.T. -0.00 min

Lab File: VF061474.D

Acq: 21 Jan 2019 15:28

Instrument :

MSVOA_F

ClientSampleId :

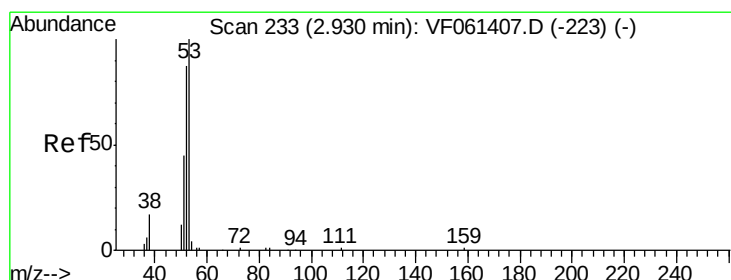
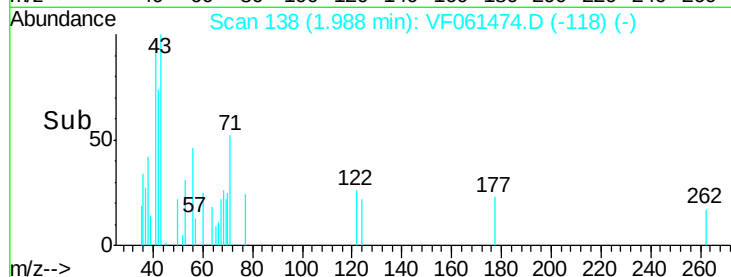
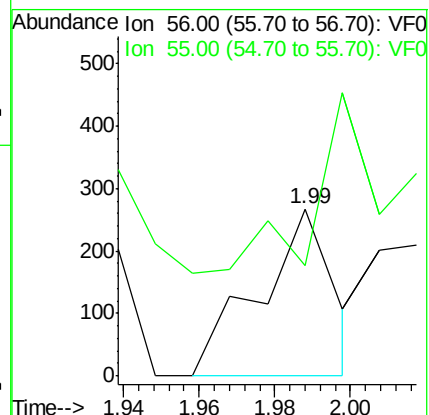
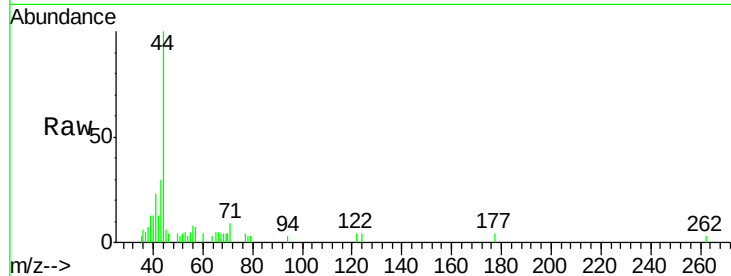
CL-01-011819-CRE

Tot Ion: 56 Resp: 366

Ion Ratio Lower Upper

56 100

55 65.7 57.5 86.3



#15

Acrylonitrile

Concen: 2.787 ug/l

RT: 2.93 min Scan# 234

Delta R.T. 0.00 min

Lab File: VF061474.D

Acq: 21 Jan 2019 15:28

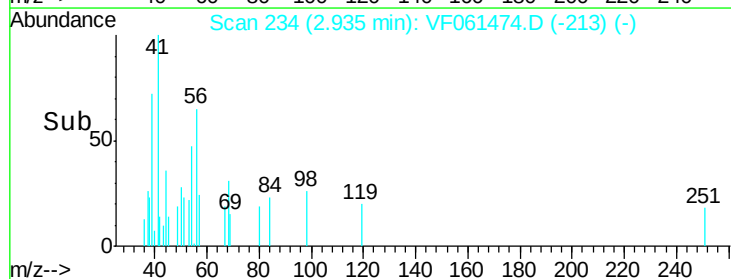
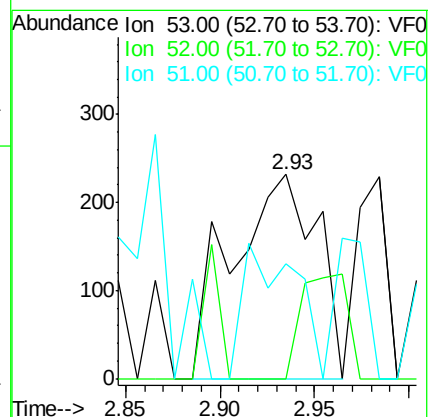
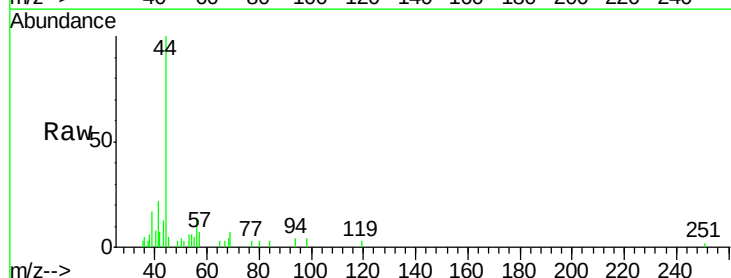
Tgt Ion: 53 Resp: 728

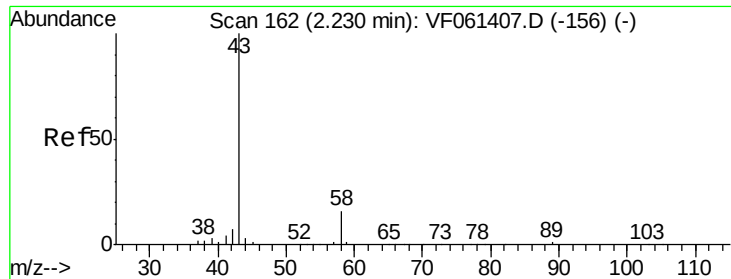
Ion Ratio Lower Upper

53 100

52 0.0 69.6 104.4#

51 56.0 36.8 55.2#

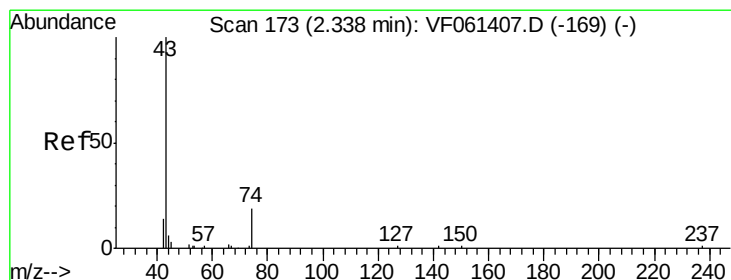
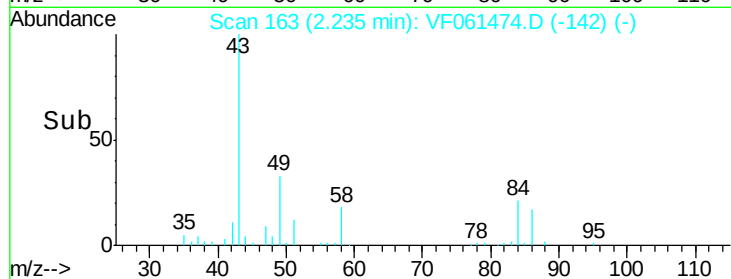
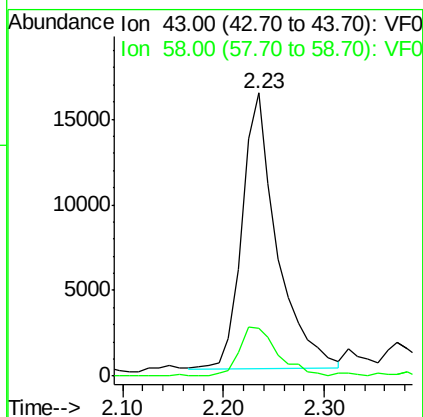
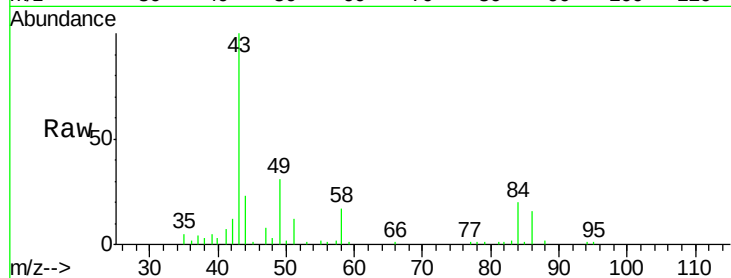




#16
Acetone
Concen: 80.126 ug/l
RT: 2.23 min Scan# 163
Delta R.T. 0.00 min
Lab File: VF061474.D
Acq: 21 Jan 2019 15:28

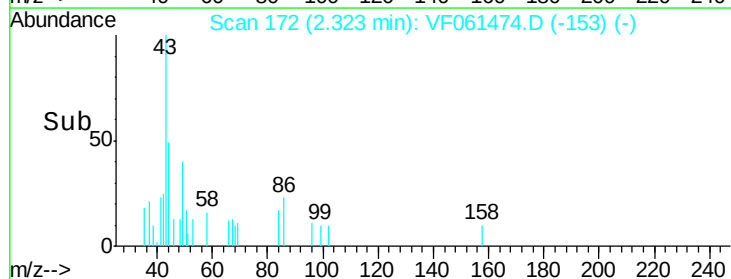
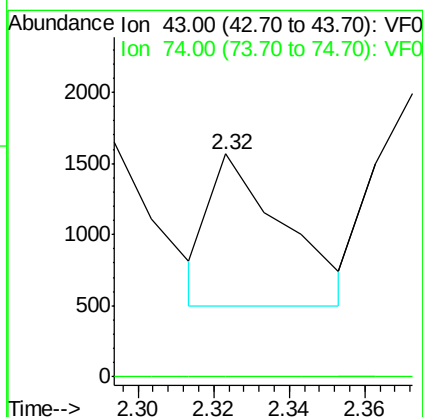
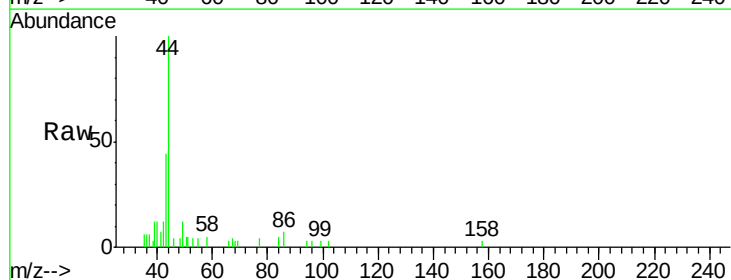
Instrument :
MSVOA_F
ClientSampleId :
CL-01-011819-CRE

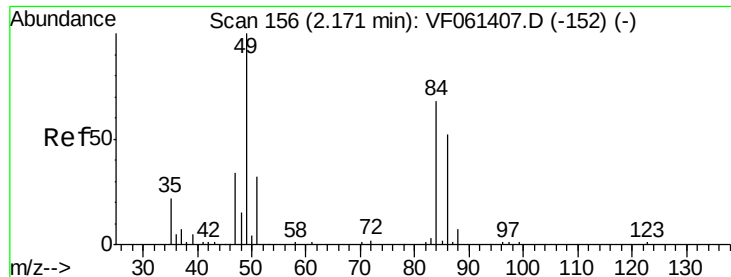
Tot Ion: 43 Resp: 38723
Ion Ratio Lower Upper
43 100
58 16.7 13.3 19.9



#18
Methyl Acetate
Concen: 1.523 ug/l
RT: 2.32 min Scan# 172
Delta R.T. -0.01 min
Lab File: VF061474.D
Acq: 21 Jan 2019 15:28

Tgt Ion: 43 Resp: 1460
Ion Ratio Lower Upper
43 100
74 0.0 13.4 20.0#

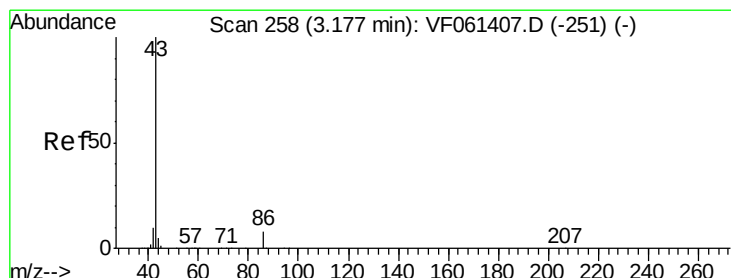
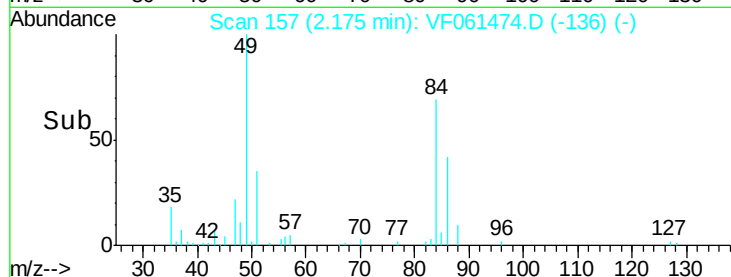
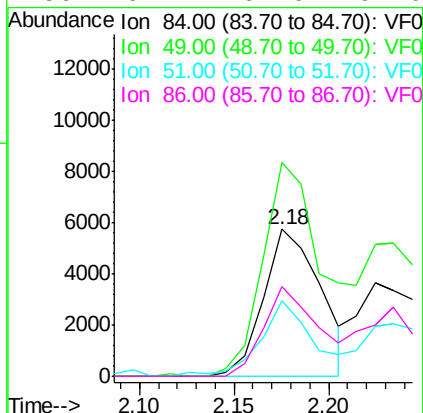
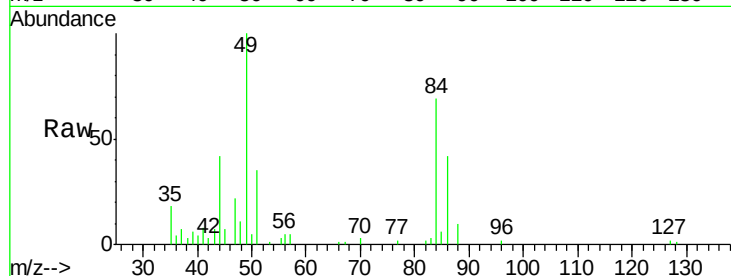




#20
Methvlene Chloride
Concen: 5.812 ug/l
RT: 2.18 min Scan# 157
Delta R.T. 0.01 min
Lab File: VF061474.D
Acq: 21 Jan 2019 15:28

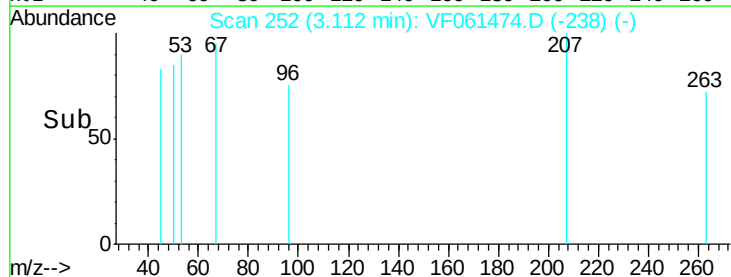
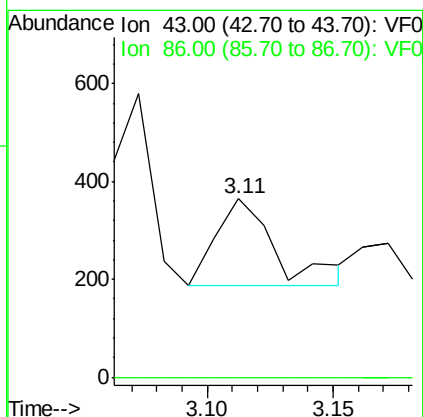
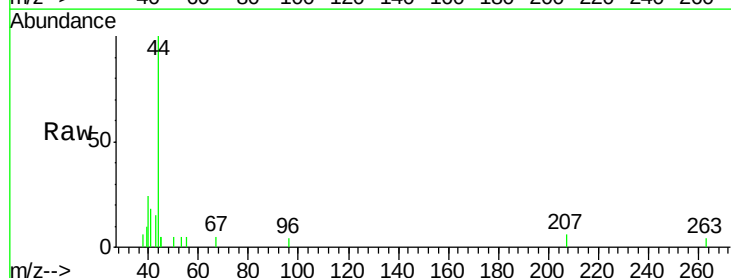
Instrument :
MSVOA_F
ClientSampleId :
CL-01-011819-CRE

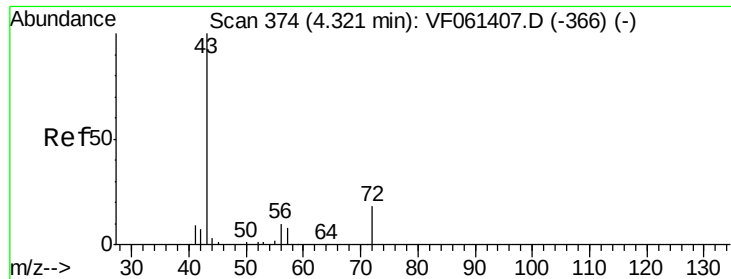
Tot Ion: 84 Resp: 12082
Ion Ratio Lower Upper
84 100
49 145.3 120.0 180.0
51 51.3 38.6 58.0
86 61.1 61.0 91.6



#23
Vinyl Acetate
Concen: 3.299 ug/l
RT: 3.11 min Scan# 252
Delta R.T. -0.06 min
Lab File: VF061474.D
Acq: 21 Jan 2019 15:28

Tgt Ion: 43 Resp: 289
Ion Ratio Lower Upper
43 100
86 0.0 6.2 9.4#

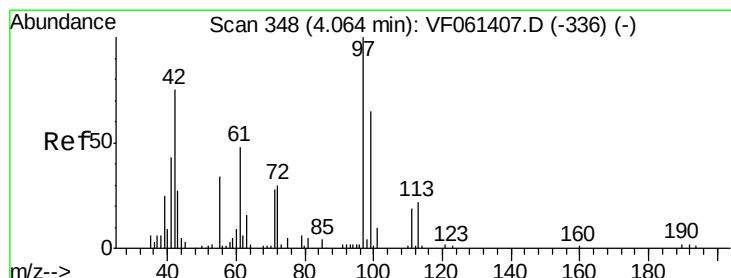
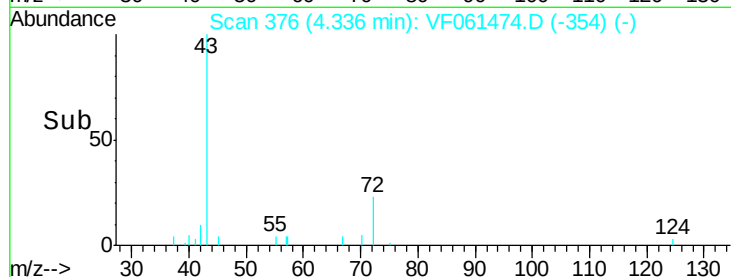
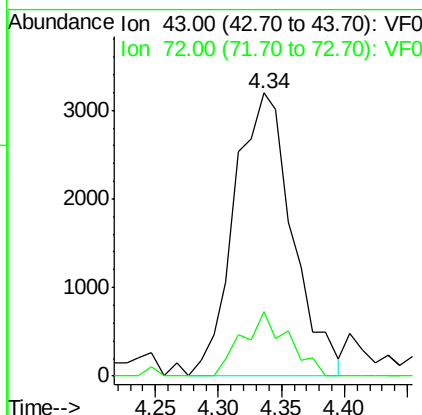
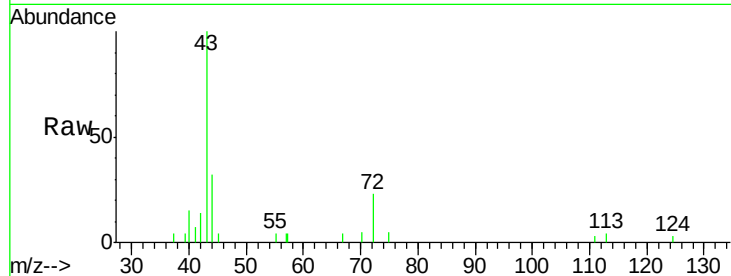




#25
2-Butanone
Concen: 12.744 ug/l
RT: 4.34 min Scan# 376
Delta R.T. 0.01 min
Lab File: VF061474.D
Acq: 21 Jan 2019 15:28

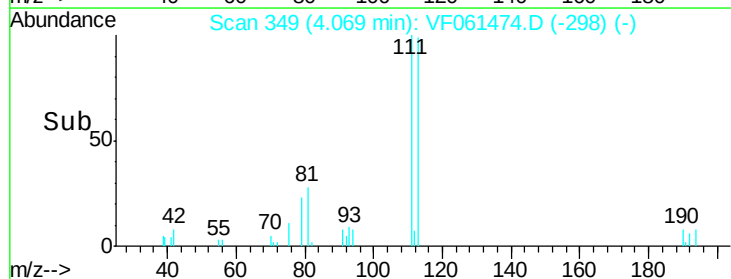
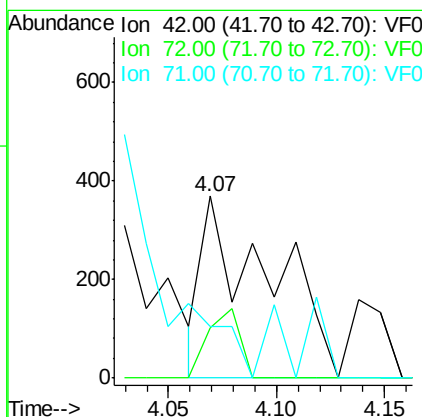
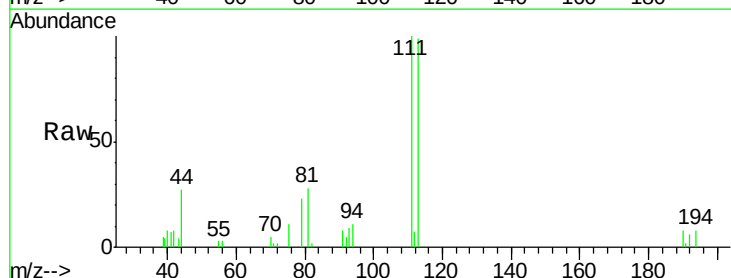
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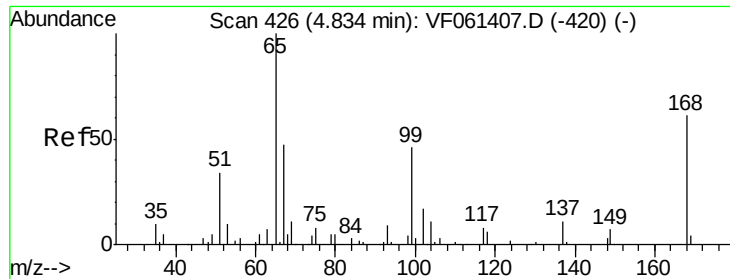
Tot Ion: 43 Resp: 10242
Ion Ratio Lower Upper
43 100
72 22.6 15.8 23.6



#29
Tetrahydrofuran
Concen: 2.335 ug/l
RT: 4.07 min Scan# 349
Delta R.T. 0.00 min
Lab File: VF061474.D
Acq: 21 Jan 2019 15:28

Tgt Ion: 42 Resp: 808
Ion Ratio Lower Upper
42 100
72 17.8 28.9 43.3#
71 0.0 29.6 44.4#

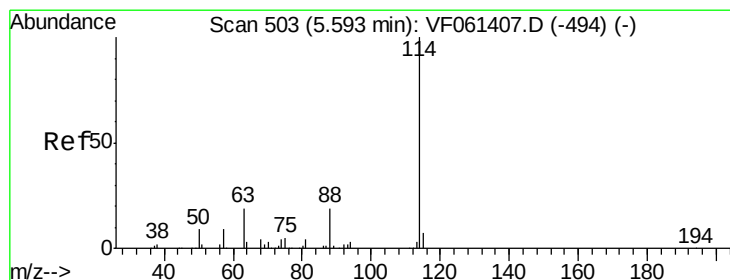
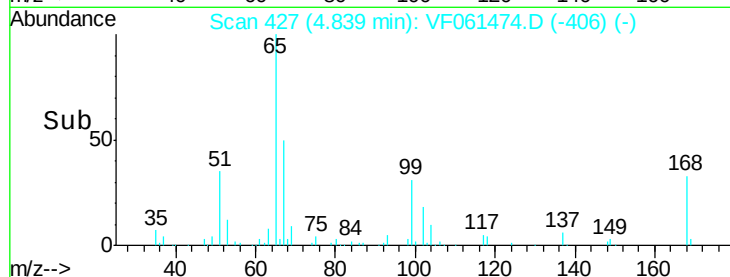
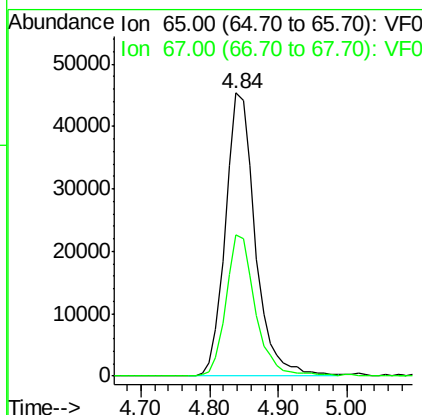
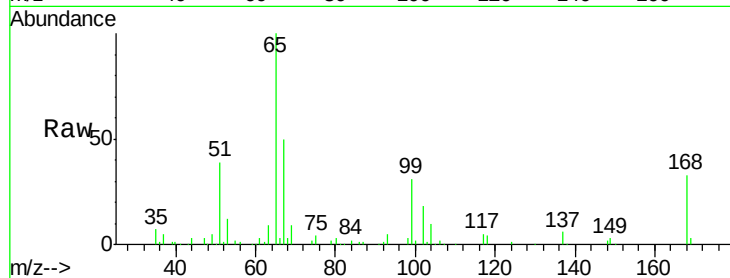




#33
 1,2-Dichloroethane-d4
 Concen: 56.615 ug/l
 RT: 4.84 min Scan# 427
 Delta R.T. 0.00 min
 Lab File: VF061474.D
 Acq: 21 Jan 2019 15:28

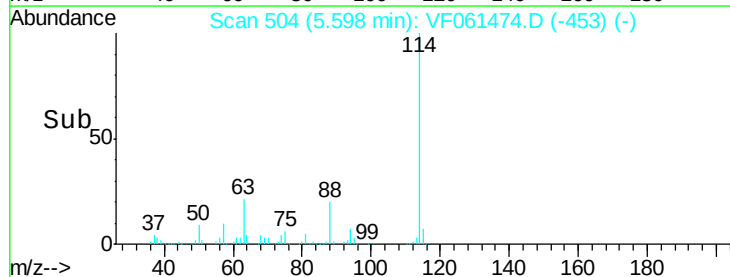
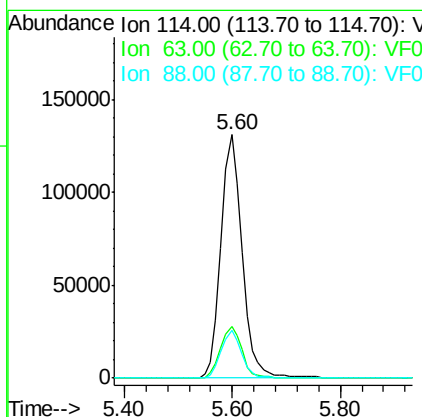
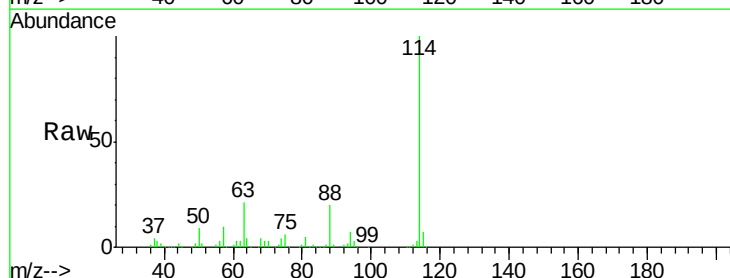
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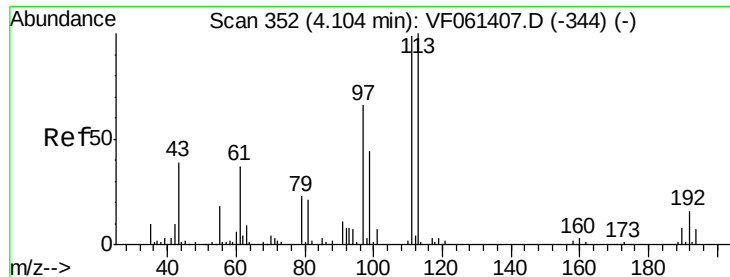
Tot Ion: 65 Resp: 136387
 Ion Ratio Lower Upper
 65 100
 67 50.0 0.0 99.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.60 min Scan# 504
 Delta R.T. 0.00 min
 Lab File: VF061474.D
 Acq: 21 Jan 2019 15:28

Tgt Ion: 114 Resp: 357511
 Ion Ratio Lower Upper
 114 100
 63 21.1 0.0 39.0
 88 19.6 0.0 37.4

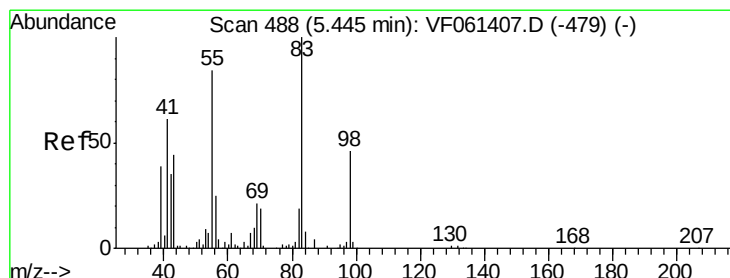
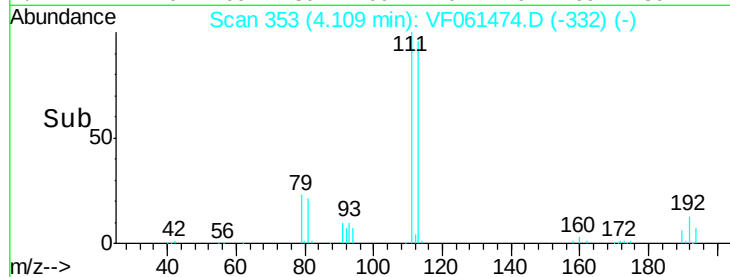
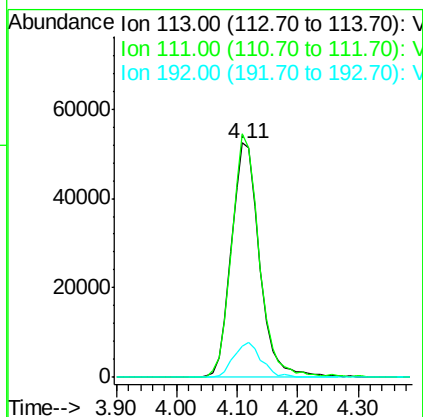
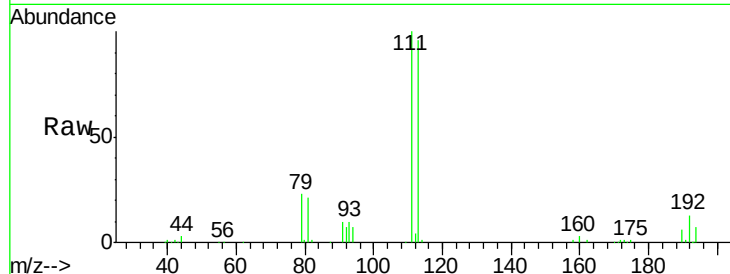




#35
Dibromofluoromethane
Concen: 60.327 ug/l
RT: 4.11 min Scan# 353
Delta R.T. 0.00 min
Lab File: VF061474.D
Acq: 21 Jan 2019 15:28

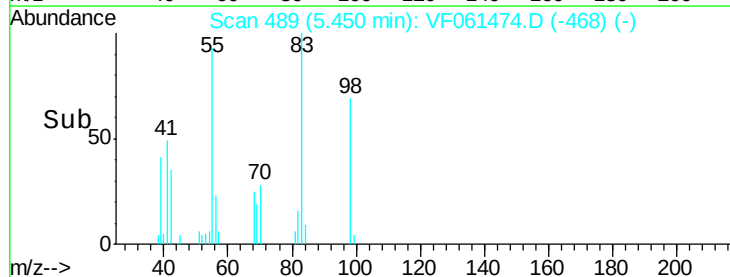
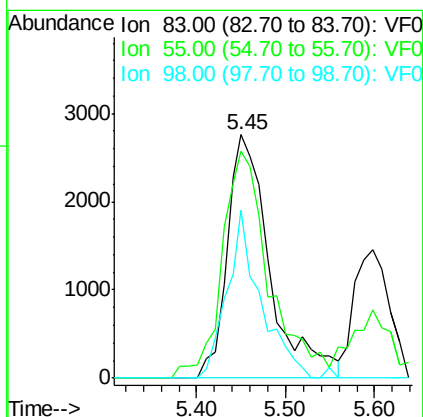
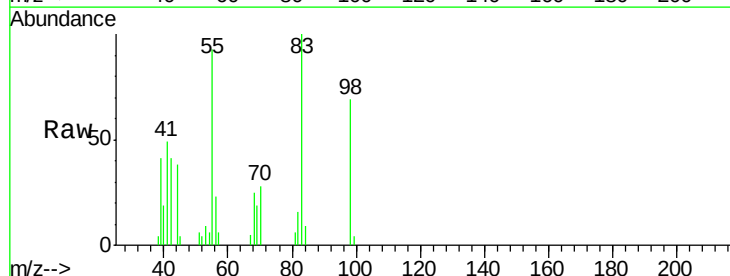
Instrument :
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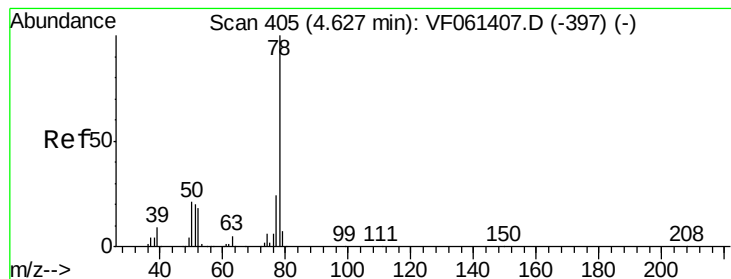
Tot Ion:113 Resp: 170187
Ion Ratio Lower Upper
113 100
111 103.8 79.4 119.0
192 13.3 12.4 18.6



#39
Methylcyclohexane
Concen: 2.057 ug/l
RT: 5.45 min Scan# 489
Delta R.T. 0.00 min
Lab File: VF061474.D
Acq: 21 Jan 2019 15:28

Tgt Ion: 83 Resp: 9240
Ion Ratio Lower Upper
83 100
55 93.4 67.4 101.2
98 68.9 36.7 55.1#





#40

Benzene

Concen: 2.485 ug/l

RT: 4.63 min Scan# 406

Delta R.T. 0.00 min

Lab File: VF061474.D

Acq: 21 Jan 2019 15:28

Instrument :

MSVOA_F

ClientSampleId :

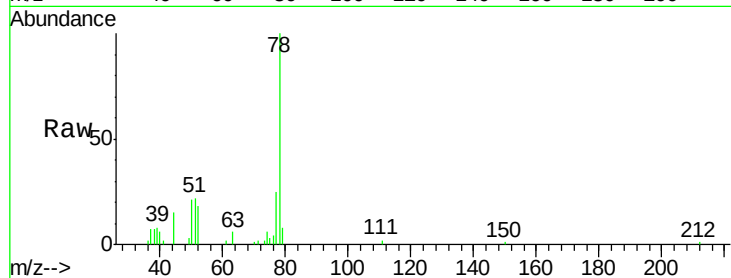
CL-01-011819-CRE

Tot Ion: 78 Resp: 22920

Ion Ratio Lower Upper

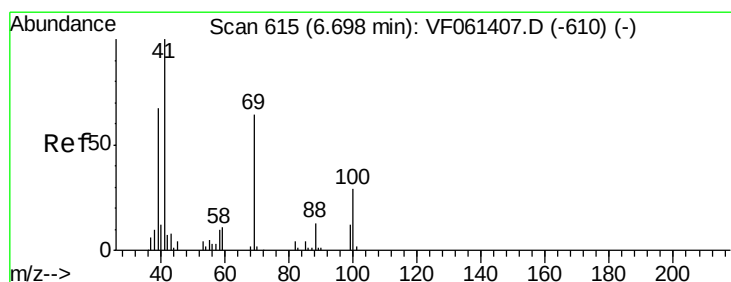
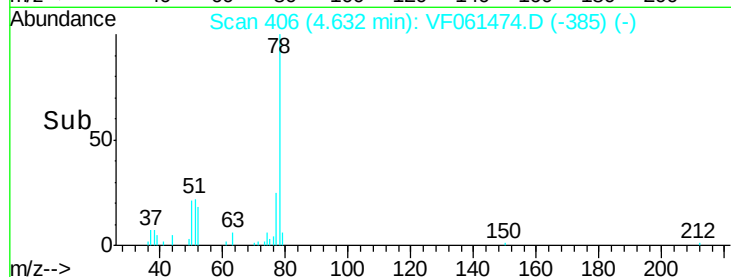
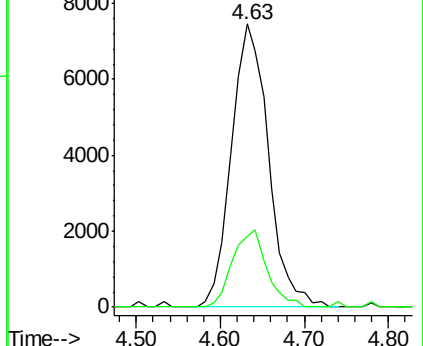
78 100

77 25.2 19.0 28.6



Abundance Ion 78.10 (77.80 to 78.80): VF0

Ion 77.00 (76.70 to 77.70): VF0



#49

1,4-Dioxane

Concen: Below Cal

RT: 6.43 min Scan# 588

Delta R.T. -0.27 min

Lab File: VF061474.D

Acq: 21 Jan 2019 15:28

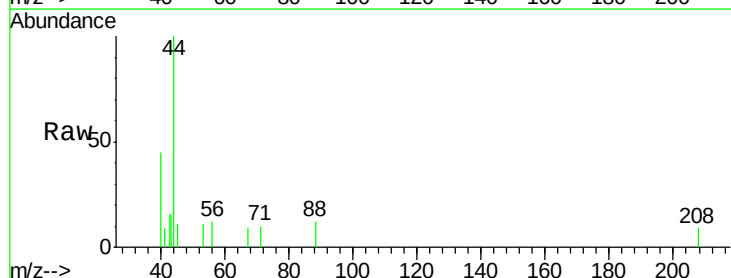
Tgt Ion: 88 Resp: 84

Ion Ratio Lower Upper

88 100

43 259.2 55.5 83.3#

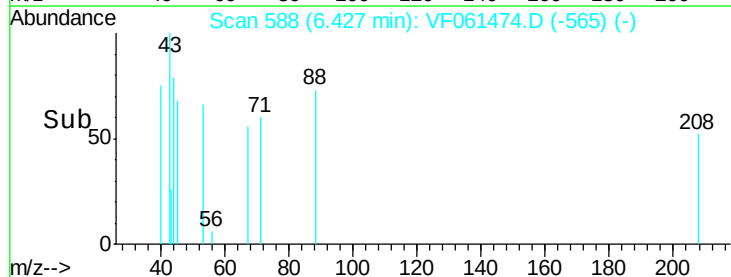
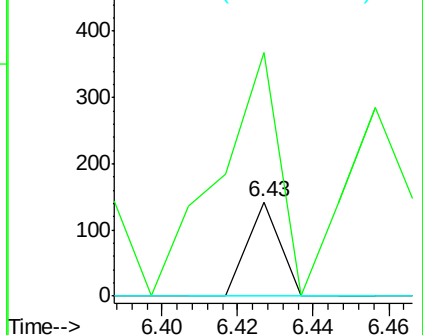
58 0.0 59.9 89.9#

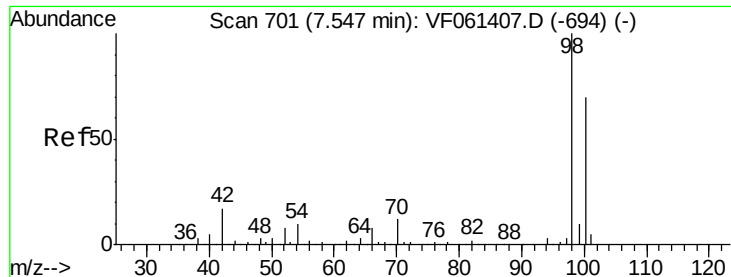


Abundance Ion 88.00 (87.70 to 88.70): VF0

Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0





#50

Toluene-d8

Concen: 47.173 ug/l

RT: 7.55 min Scan# 702

Delta R.T. 0.00 min

Lab File: VF061474.D

Acq: 21 Jan 2019 15:28

Instrument :

MSVOA_F

ClientSampleId :

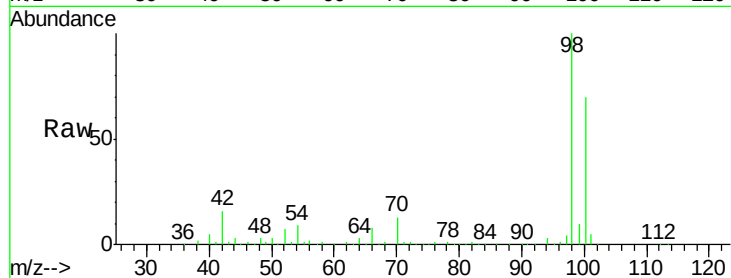
CL-01-011819-CRE

Tot Ion: 98 Resp: 364608

Ion Ratio Lower Upper

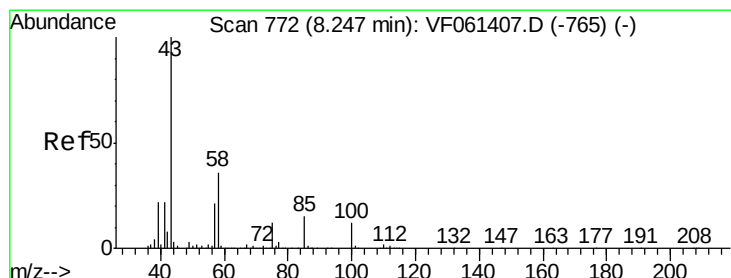
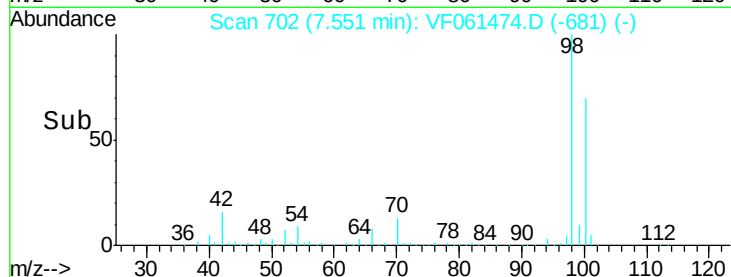
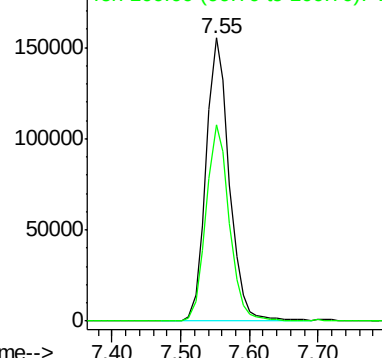
98 100

100 69.5 55.6 83.4



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: 1.550 ug/l

RT: 8.28 min Scan# 776

Delta R.T. 0.03 min

Lab File: VF061474.D

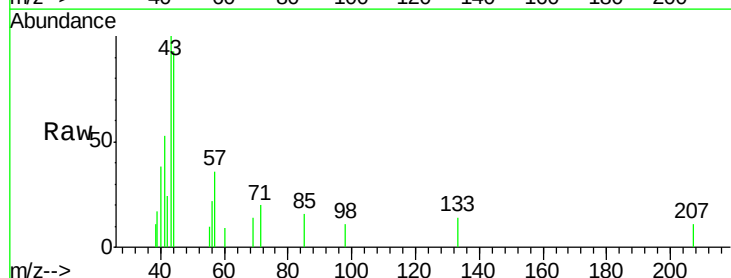
Acq: 21 Jan 2019 15:28

Tgt Ion: 43 Resp: 2370

Ion Ratio Lower Upper

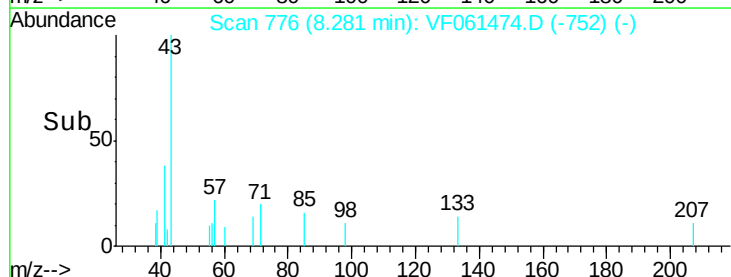
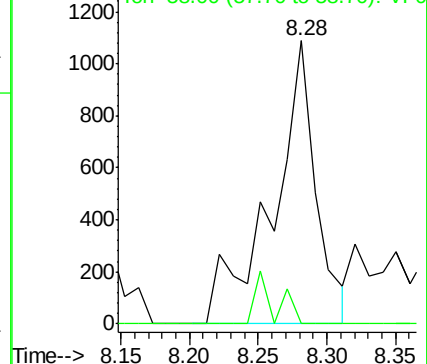
43 100

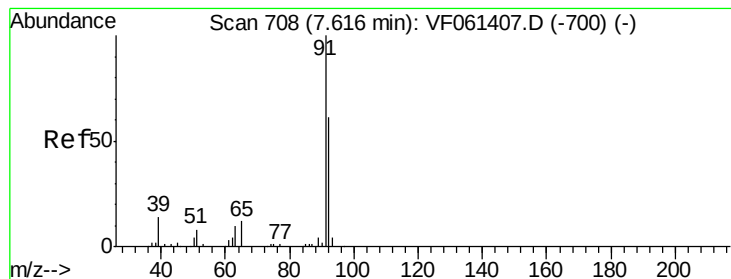
58 0.0 28.8 43.2#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0





#52

Toluene

Concen: 3.534 ug/l

RT: 7.62 min Scan# 709

Delta R.T. 0.00 min

Lab File: VF061474.D

Acq: 21 Jan 2019 15:28

Instrument :

MSVOA_F

ClientSampleId :

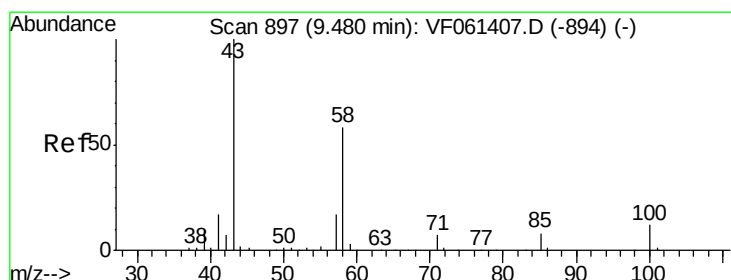
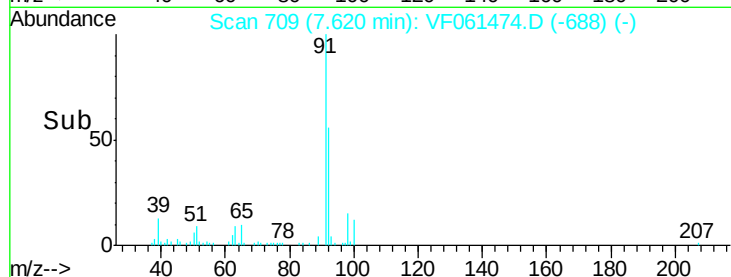
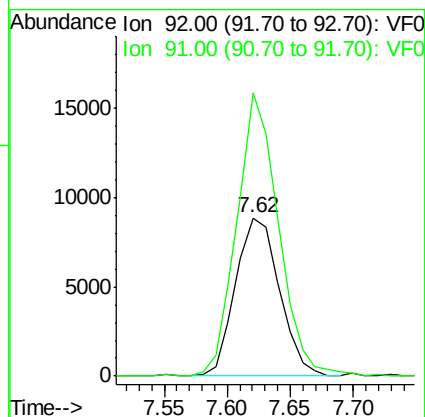
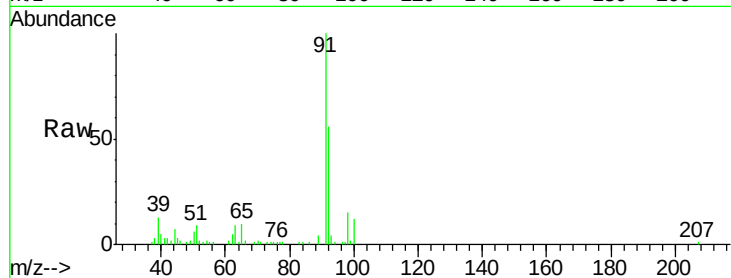
CL-01-011819-CRE

Tot Ion: 92 Resp: 21466

Ion Ratio Lower Upper

92 100

91 178.7 131.2 196.8



#59

2-Hexanone

Concen: 1.179 ug/l

RT: 9.49 min Scan# 899

Delta R.T. 0.01 min

Lab File: VF061474.D

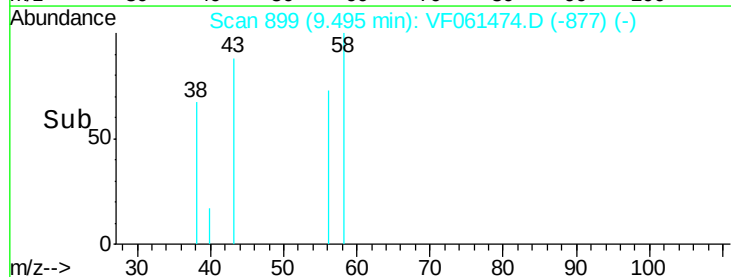
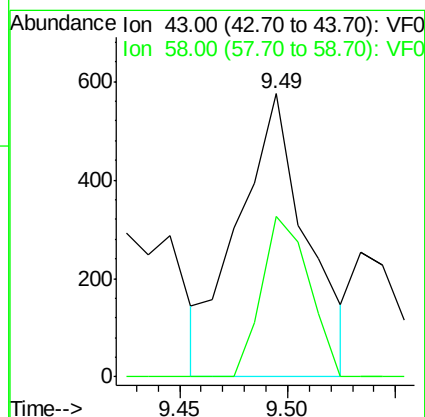
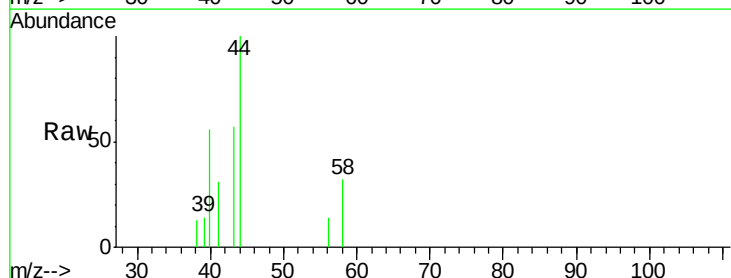
Acq: 21 Jan 2019 15:28

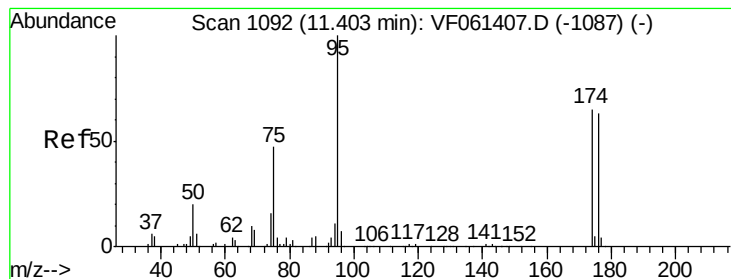
Tgt Ion: 43 Resp: 1257

Ion Ratio Lower Upper

43 100

58 56.7 25.9 77.6





#62

4-Bromofluorobenzene

Concen: 42.643 ug/l

RT: 11.41 min Scan# 1093

Delta R.T. 0.00 min

Lab File: VF061474.D

Acq: 21 Jan 2019 15:28

Instrument :

MSVOA_F

ClientSampleId :

CL-01-011819-CRE

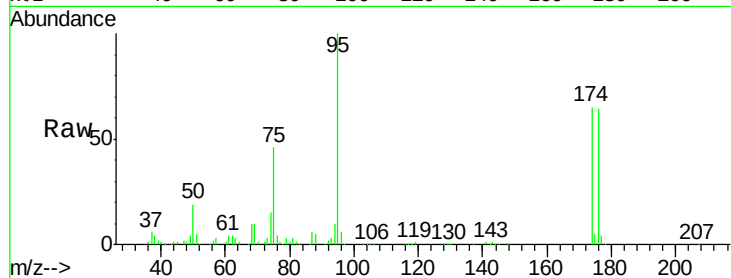
Tot Ion: 95 Resp: 153996

Ion Ratio Lower Upper

95 100

174 64.5 0.0 130.4

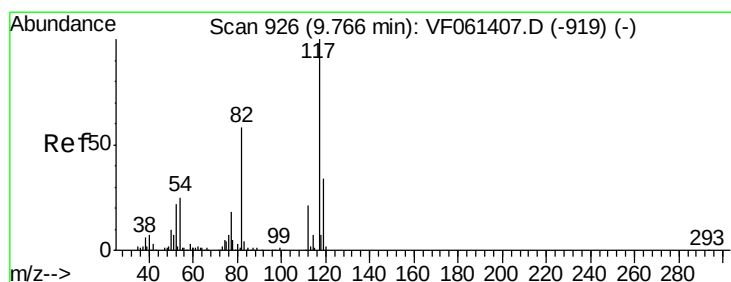
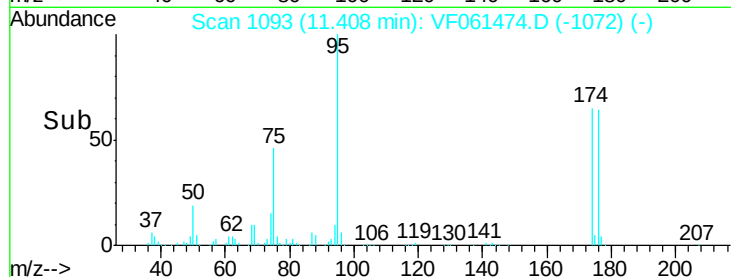
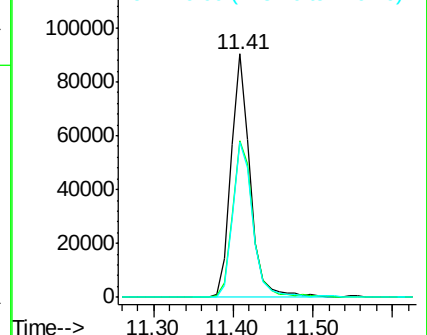
176 63.7 0.0 126.2



Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): VF0

Ion 176.00 (175.70 to 176.70): VF0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.77 min Scan# 927

Delta R.T. 0.00 min

Lab File: VF061474.D

Acq: 21 Jan 2019 15:28

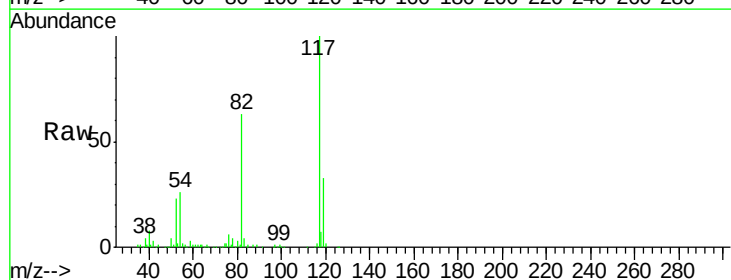
Tgt Ion: 117 Resp: 287151

Ion Ratio Lower Upper

117 100

82 62.6 46.4 69.6

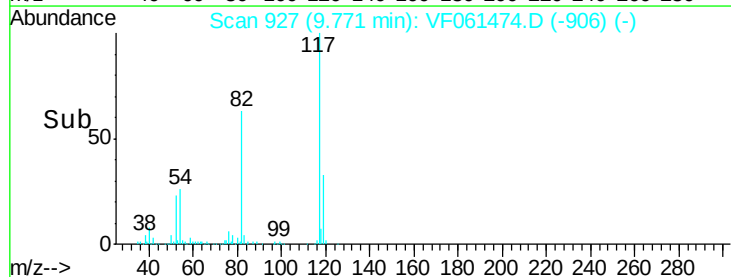
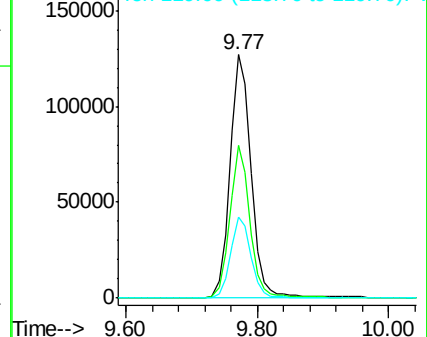
119 33.5 27.2 40.8

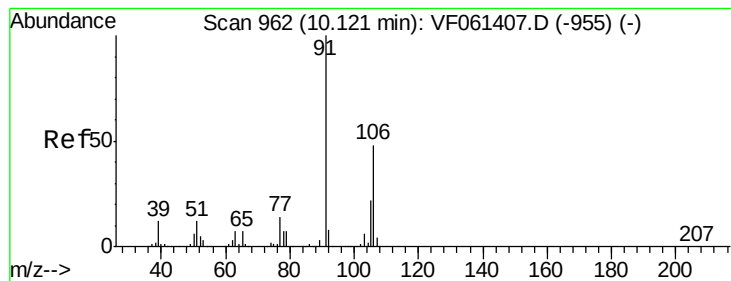


Abundance Ion 117.00 (116.70 to 117.70): VF0

Ion 82.00 (81.70 to 82.70): VF0

Ion 119.00 (118.70 to 119.70): VF0





#68

m/p-Xylenes

Concen: 3.117 ug/l

RT: 10.13 min Scan# 963

Delta R.T. 0.00 min

Lab File: VF061474.D

Acq: 21 Jan 2019 15:28

Instrument :

MSVOA_F

ClientSampleId :

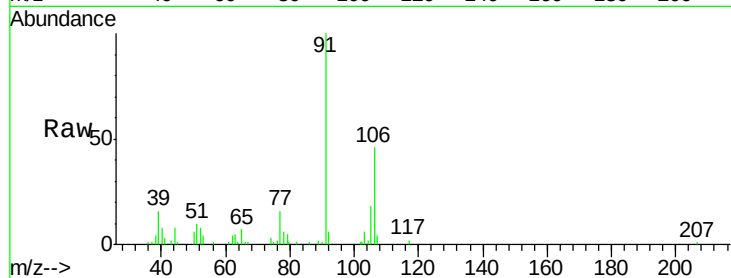
CL-01-011819-CRE

Tot Ion:106 Resp: 11959

Ion Ratio Lower Upper

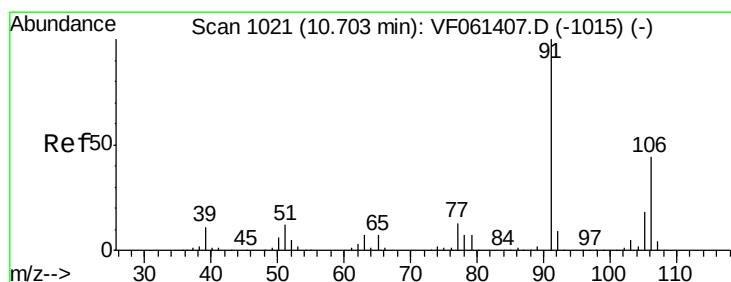
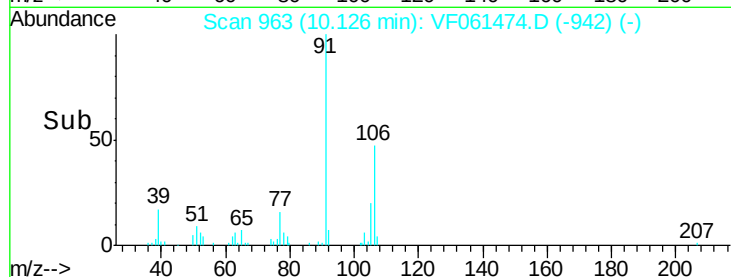
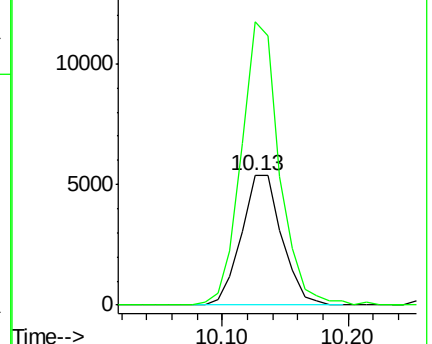
106 100

91 218.6 166.2 249.4



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VF0



#69

o-Xylene

Concen: 1.667 ug/l

RT: 10.72 min Scan# 1023

Delta R.T. 0.01 min

Lab File: VF061474.D

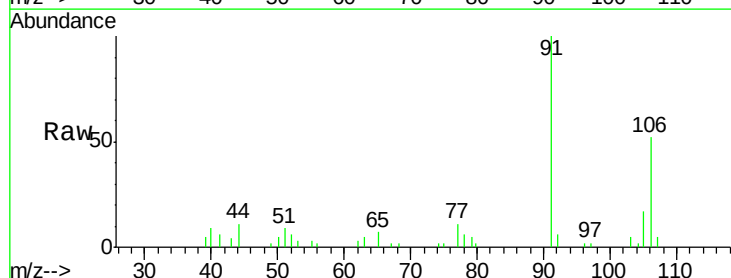
Acq: 21 Jan 2019 15:28

Tgt Ion:106 Resp: 6932

Ion Ratio Lower Upper

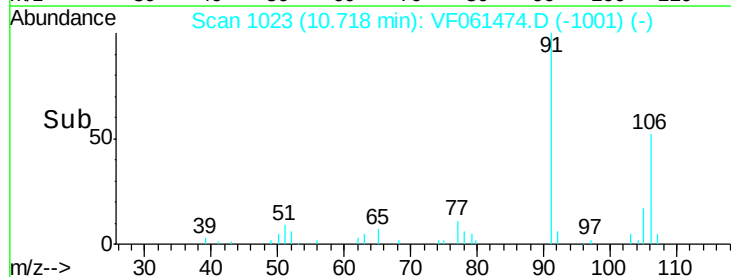
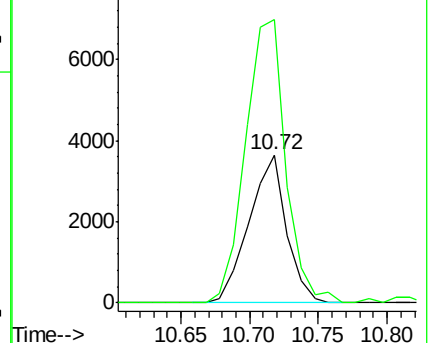
106 100

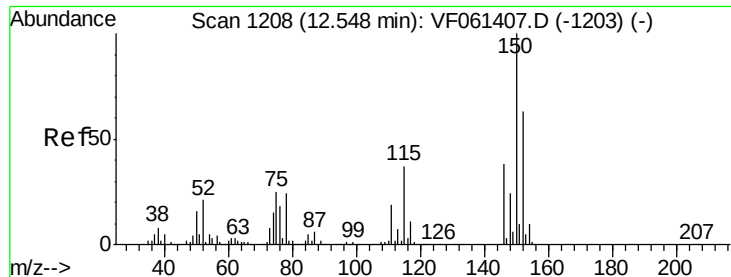
91 190.9 113.3 339.8



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VF0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.55 min Scan# 1209

Delta R.T. 0.00 min

Lab File: VF061474.D

Acq: 21 Jan 2019 15:28

Instrument :

MSVOA_F

ClientSampleId :

CL-01-011819-CRE

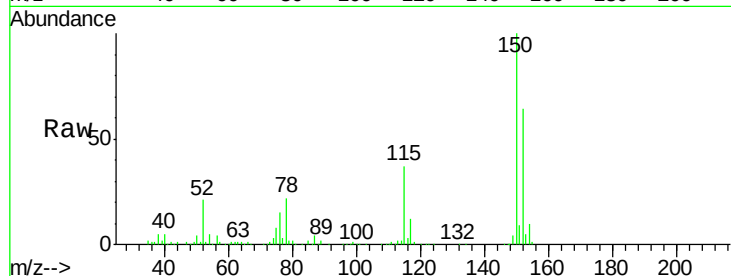
Tot Ion:152 Resp: 126239

Ion Ratio Lower Upper

152 100

115 57.3 30.0 90.0

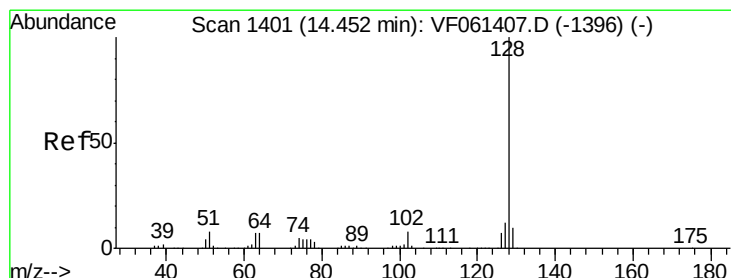
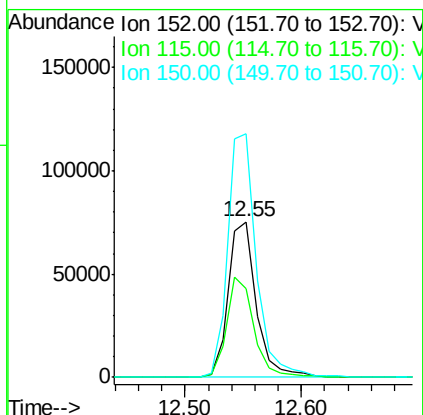
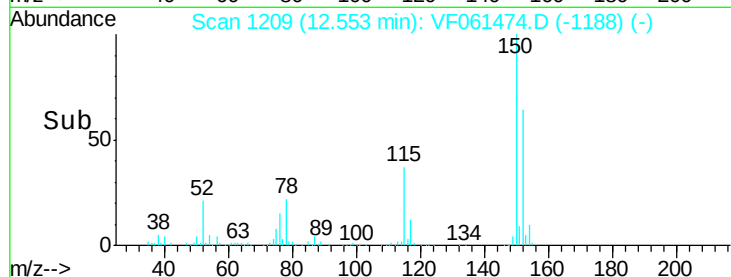
150 156.4 0.0 321.4



Abundance Ion 152.00 (151.70 to 152.70): V

Ion 115.00 (114.70 to 115.70): V

Ion 150.00 (149.70 to 150.70): V



#95

Naphthalene

Concen: 3.097 ug/l

RT: 14.46 min Scan# 1402

Delta R.T. 0.00 min

Lab File: VF061474.D

Acq: 21 Jan 2019 15:28

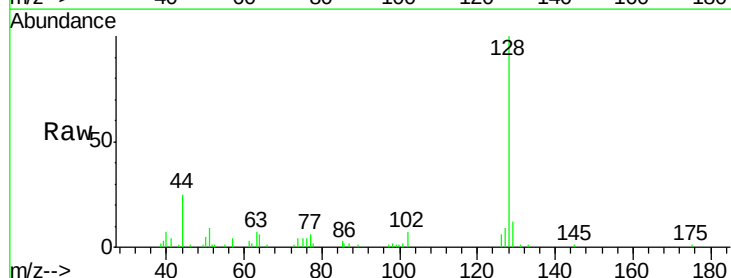
Tgt Ion:128 Resp: 16722

Ion Ratio Lower Upper

128 100

127 9.3 9.5 14.3#

129 11.9 8.4 12.6



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

