

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF011719\
 Data File : VF061445.D
 Acq On : 17 Jan 2019 15:26
 Operator : VA/AP
 Sample : K1157-12RE
 Misc : 5.04g/5mL/MSVOA-F/SOIL
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 WC-06-011519RE

Quant Time: Jan 18 03:19:03 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	4.86	168	170740	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.58	114	282984	50.00	ug/l	-0.01
63) Chlorobenzene-d5	9.76	117	205030	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.54	152	58271	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.83	65	131923	62.58	ug/l	0.00
Spiked Amount			Recovery	=	125.16%	
35) Dibromofluoromethane	4.10	113	146066	65.41	ug/l	0.00
Spiked Amount			Recovery	=	130.82%	
50) Toluene-d8	7.54	98	326732	53.41	ug/l	0.00
Spiked Amount			Recovery	=	106.82%	
62) 4-Bromofluorobenzene	11.40	95	99825	34.92	ug/l	0.00
Spiked Amount			Recovery	=	69.84%	

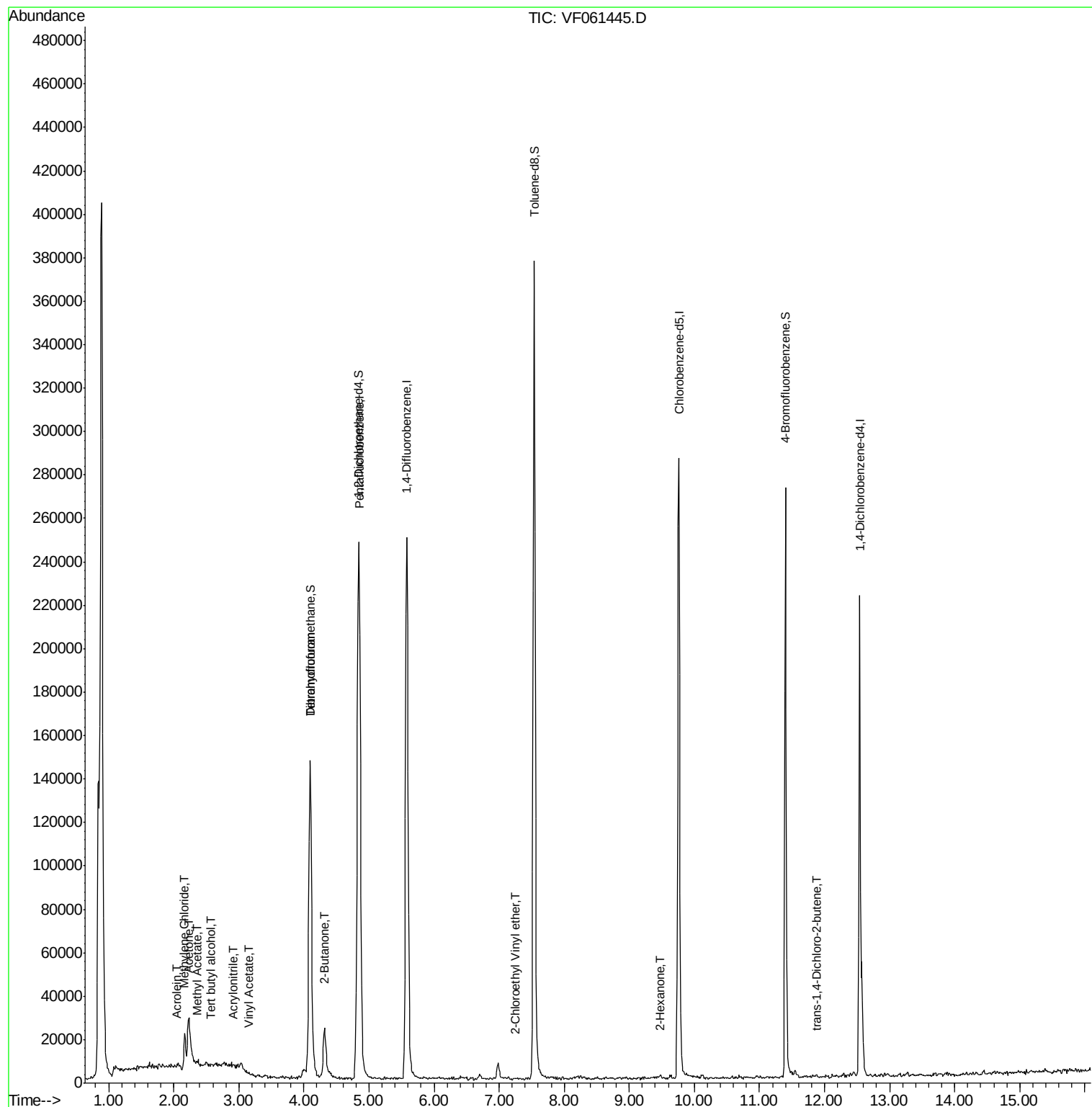
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	2.56	59	205	2.297	ug/l #	64
13) Acrolein	2.04	56	677	18.781	ug/l	83
14) Allyl chloride	2.05	41	823	Below Cal	#	61
15) Acrylonitrile	2.91	53	449	1.964	ug/l #	36
16) Acetone	2.23	43	29885	70.668	ug/l	98
18) Methyl Acetate	2.35	43	2127	2.536	ug/l #	61
20) Methylene Chloride	2.17	84	5874	2.420	ug/l	84
23) Vinyl Acetate	3.16	43	275	3.308	ug/l #	78
25) 2-Butanone	4.32	43	52202	74.230	ug/l	99
29) Tetrahydrofuran	4.10	42	679	2.242	ug/l #	38
49) 1,4-Dioxane	6.23	88	81	Below Cal	#	1
58) 2-Chloroethyl Vinyl ether	7.26	63	70	27.892	ug/l #	47
59) 2-Hexanone	9.49	43	1017	1.205	ug/l	93
81) trans-1,4-Dichloro-2-buten	11.86	75	273	1.035	ug/l #	19

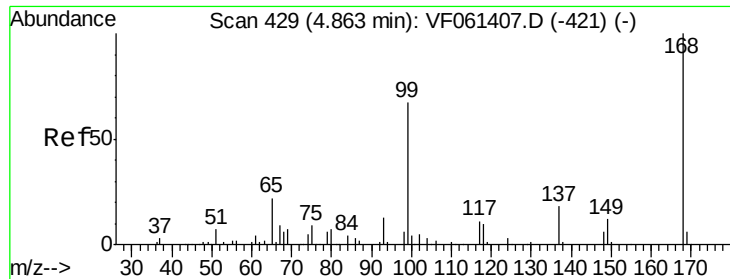
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: 4.86 min Scan# 429

Delta R.T. -0.00 min

Lab File: VF061445.D

Acq: 17 Jan 2019 15:26

Instrument :

MSVOA_F

ClientSampleId :

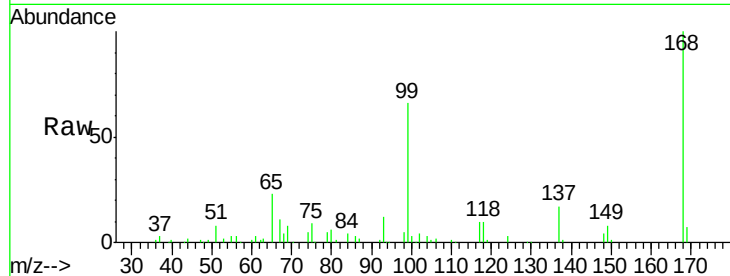
WC-06-011519RE

Tot Ion:168 Resp: 170740

Ion Ratio Lower Upper

168 100

99 66.2 53.5 80.3



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.86

60000

50000

40000

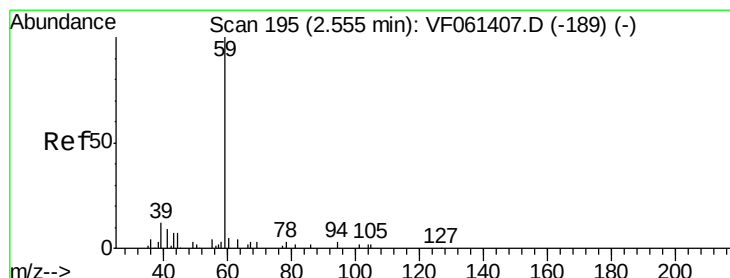
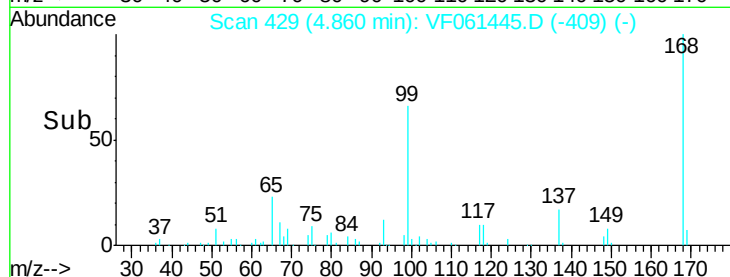
30000

20000

10000

0

Time-->



#11

Tert butyl alcohol

Concen: 2.297 ug/l

RT: 2.56 min Scan# 196

Delta R.T. 0.01 min

Lab File: VF061445.D

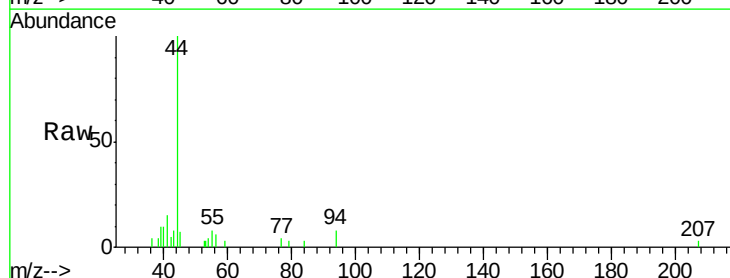
Acq: 17 Jan 2019 15:26

Tgt Ion: 59 Resp: 205

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

200

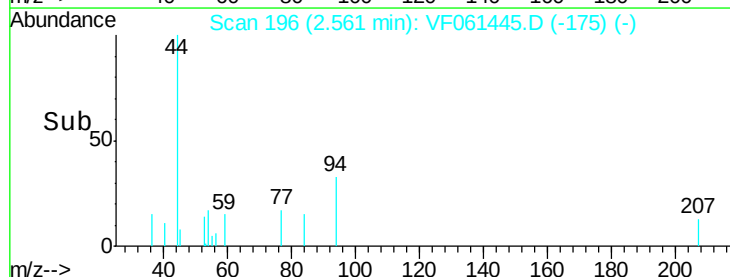
150

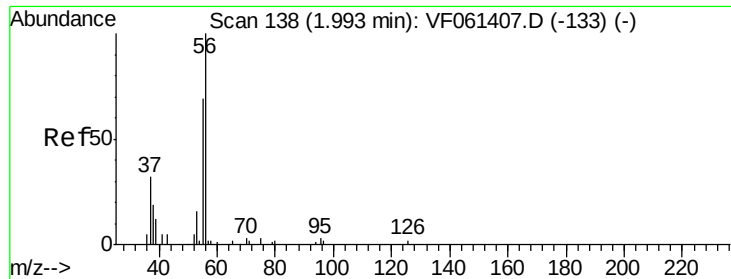
100

50

0

Time-->





#13

Acrolein

Concen: 18.781 ug/l

RT: 2.04 min Scan# 143

Delta R.T. 0.05 min

Lab File: VF061445.D

Acq: 17 Jan 2019 15:26

Instrument :

MSVOA_F

ClientSampleId :

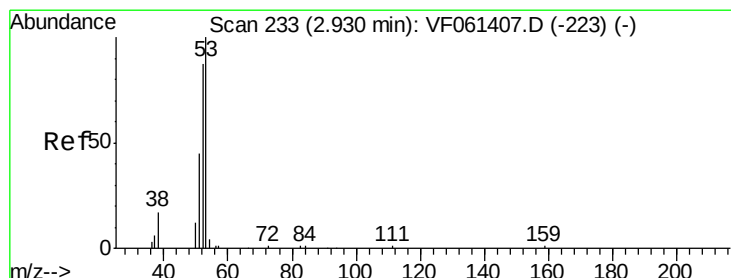
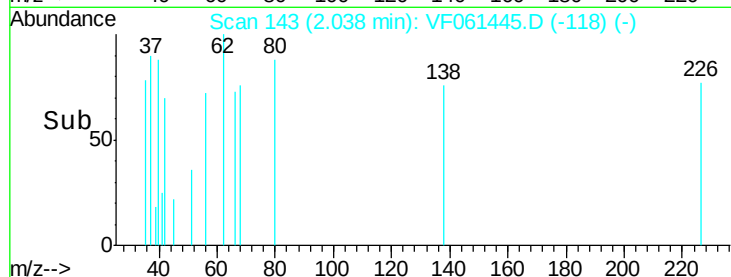
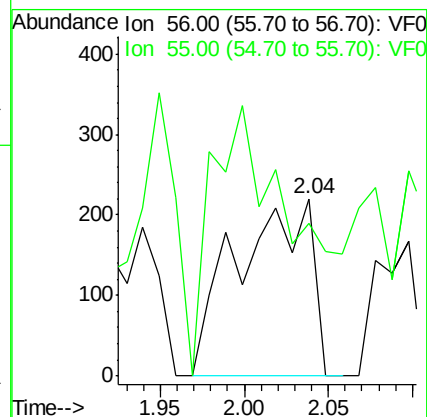
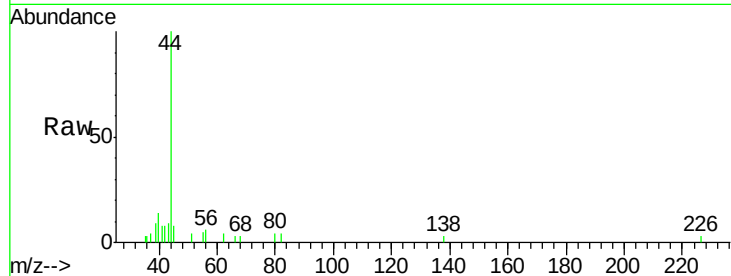
WC-06-011519RE

Tot Ion: 56 Resp: 677

Ion Ratio Lower Upper

56 100

55 85.9 57.5 86.3



#15

Acrylonitrile

Concen: 1.964 ug/l

RT: 2.91 min Scan# 231

Delta R.T. -0.02 min

Lab File: VF061445.D

Acq: 17 Jan 2019 15:26

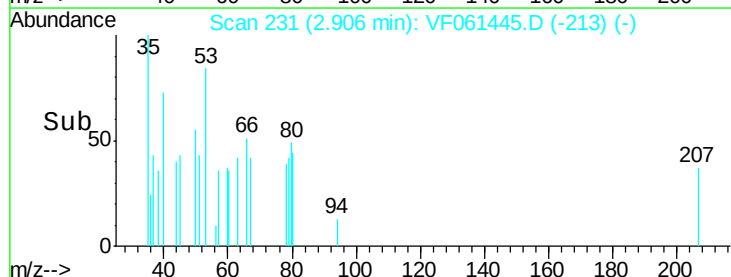
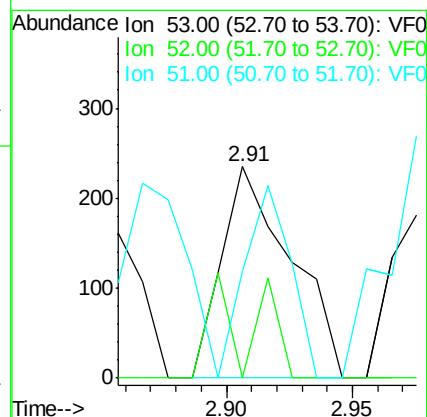
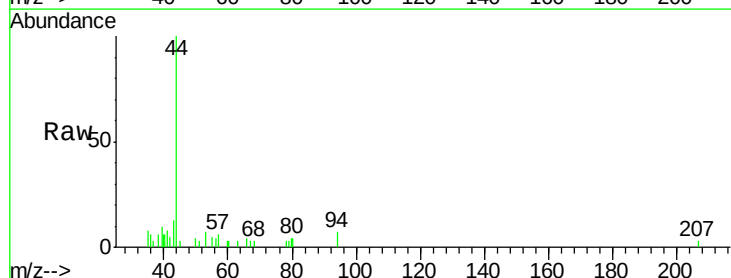
Tgt Ion: 53 Resp: 449

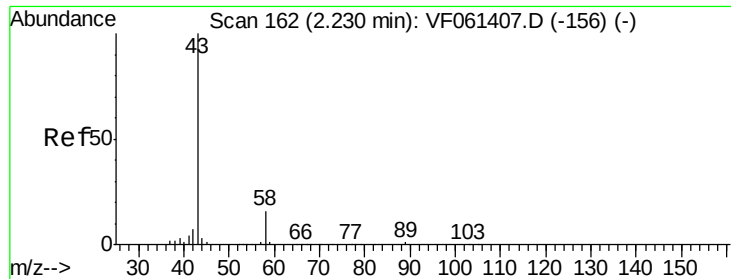
Ion Ratio Lower Upper

53 100

52 0.0 69.6 104.4#

51 50.6 36.8 55.2

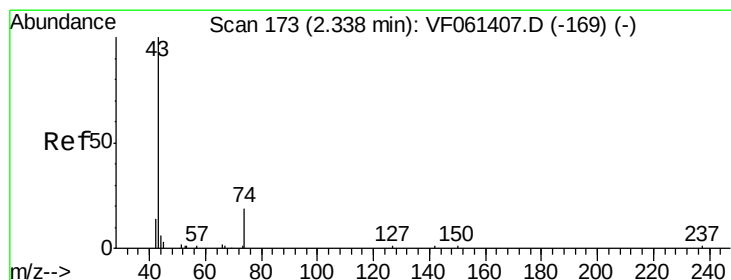
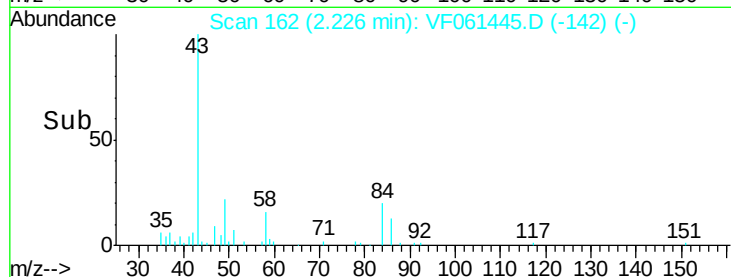
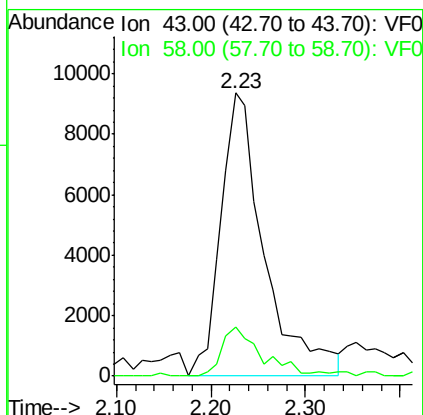
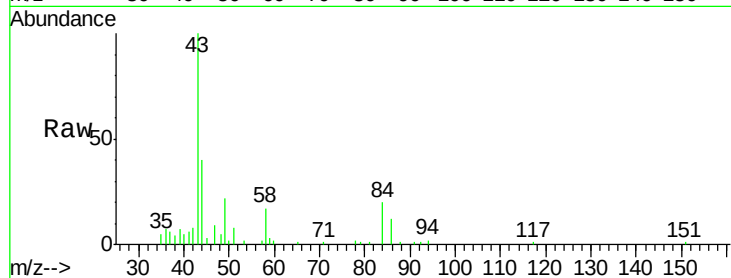




#16
Acetone
Concen: 70.668 ug/l
RT: 2.23 min Scan# 162
Delta R.T. -0.00 min
Lab File: VF061445.D
Acq: 17 Jan 2019 15:26

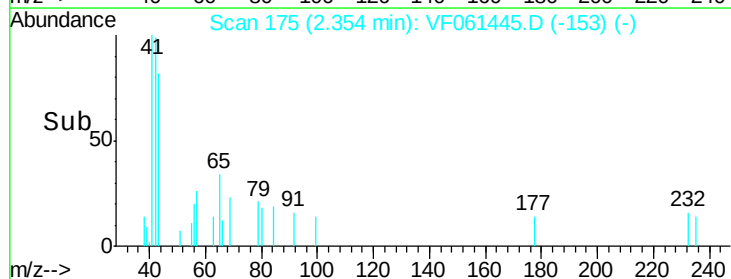
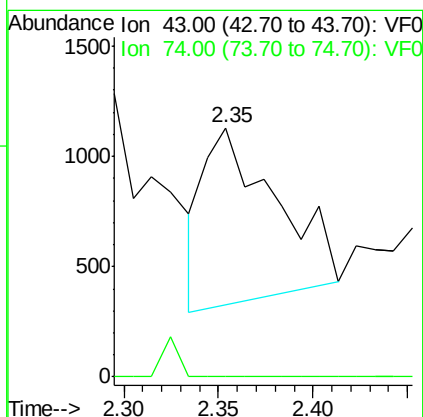
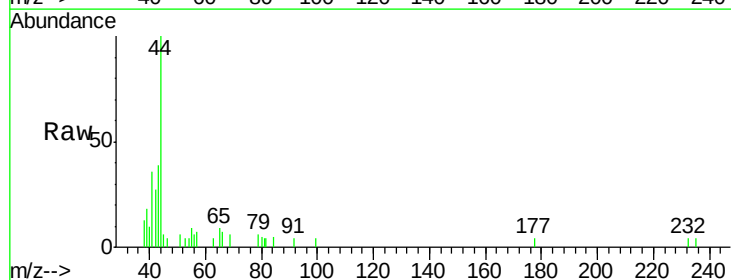
Instrument :
MSVOA_F
ClientSampleId :
WC-06-011519RE

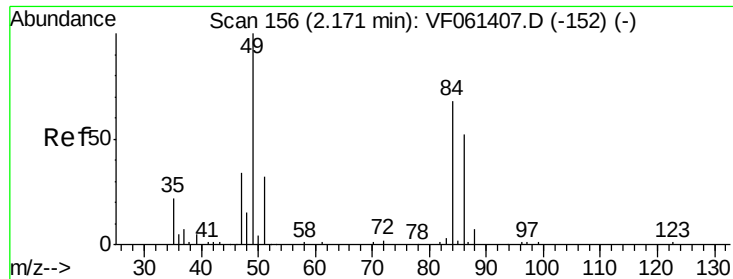
Tot Ion: 43 Resp: 29885
Ion Ratio Lower Upper
43 100
58 17.4 13.3 19.9



#18
Methyl Acetate
Concen: 2.536 ug/l
RT: 2.35 min Scan# 175
Delta R.T. 0.02 min
Lab File: VF061445.D
Acq: 17 Jan 2019 15:26

Tgt Ion: 43 Resp: 2127
Ion Ratio Lower Upper
43 100
74 0.0 13.4 20.0#

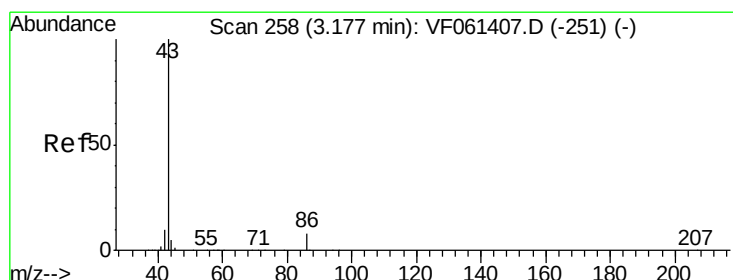
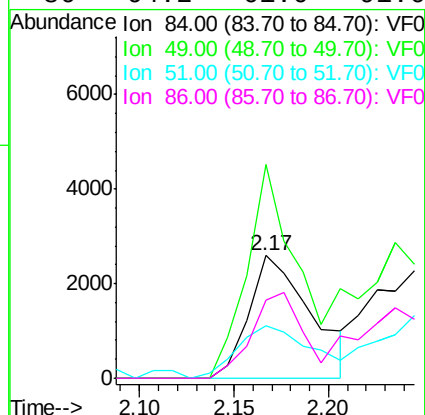
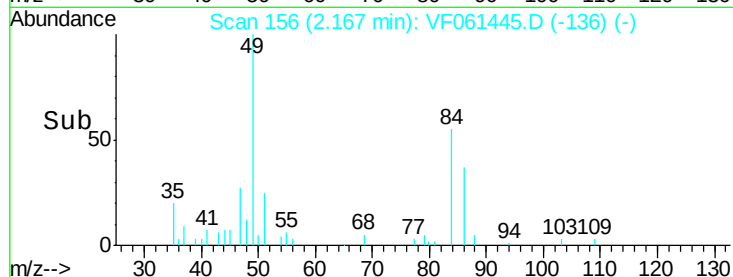
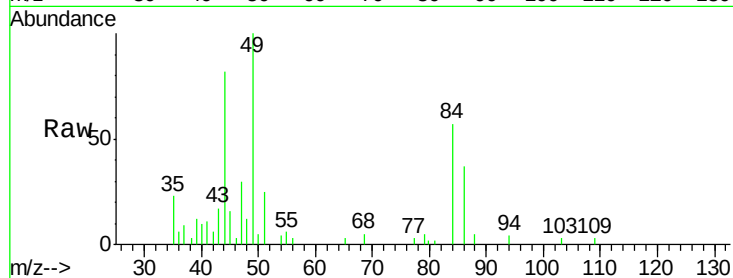




#20
Methvlene Chloride
Concen: 2.420 ug/l
RT: 2.17 min Scan# 156
Delta R.T. -0.00 min
Lab File: VF061445.D
Acq: 17 Jan 2019 15:26

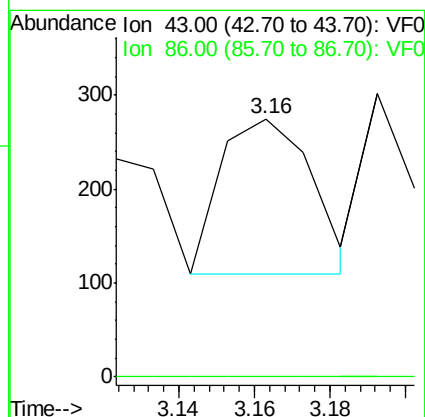
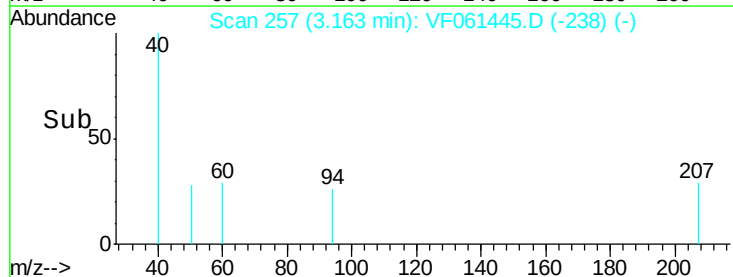
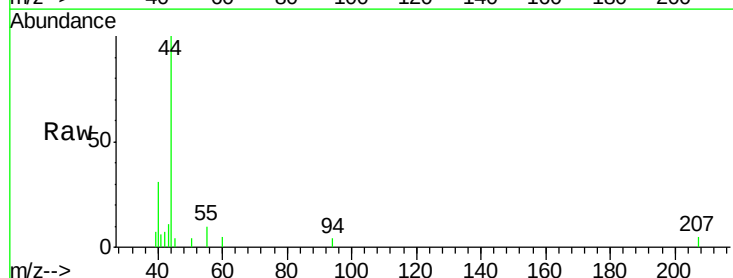
Instrument :
MSVOA_F
ClientSampleId :
WC-06-011519RE

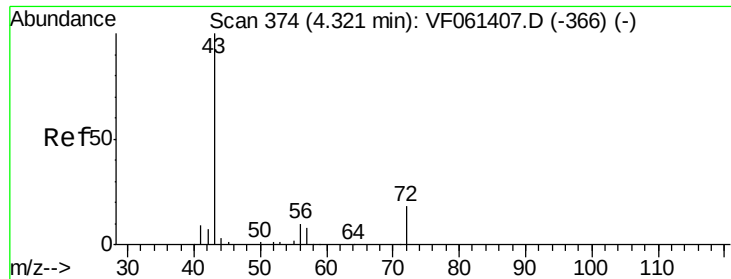
Tot Ion: 84 Resp: 5874
Ion Ratio Lower Upper
84 100
49 174.5 120.0 180.0
51 43.0 38.6 58.0
86 64.2 61.0 91.6



#23
Vinyl Acetate
Concen: 3.308 ug/l
RT: 3.16 min Scan# 257
Delta R.T. -0.01 min
Lab File: VF061445.D
Acq: 17 Jan 2019 15:26

Tgt Ion: 43 Resp: 275
Ion Ratio Lower Upper
43 100
86 0.0 6.2 9.4#





#25

2-Butanone

Concen: 74.230 ug/l

RT: 4.32 min Scan# 374

Delta R.T. -0.00 min

Lab File: VF061445.D

Acq: 17 Jan 2019 15:26

Instrument :

MSVOA_F

ClientSampleId :

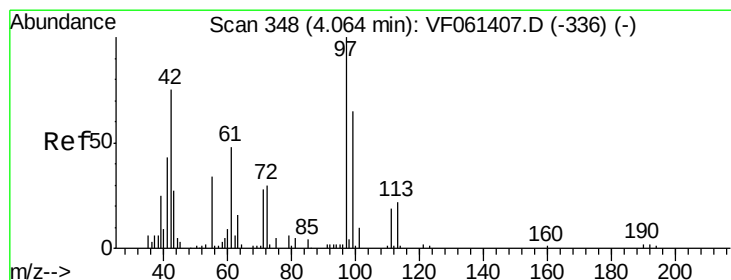
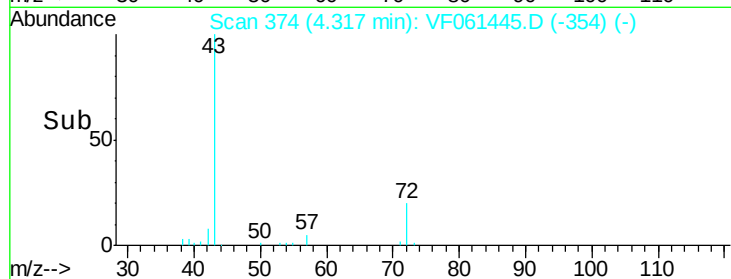
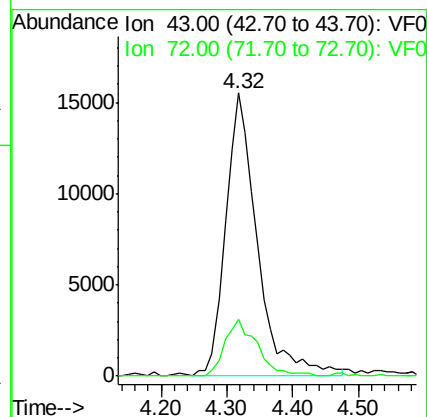
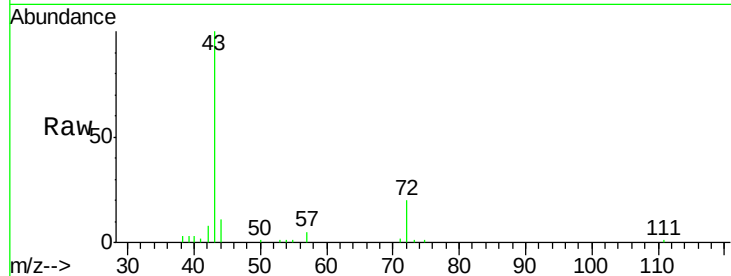
WC-06-011519RE

Tot Ion: 43 Resp: 52202

Ion Ratio Lower Upper

43 100

72 20.1 15.8 23.6



#29

Tetrahydrofuran

Concen: 2.242 ug/l

RT: 4.10 min Scan# 352

Delta R.T. 0.04 min

Lab File: VF061445.D

Acq: 17 Jan 2019 15:26

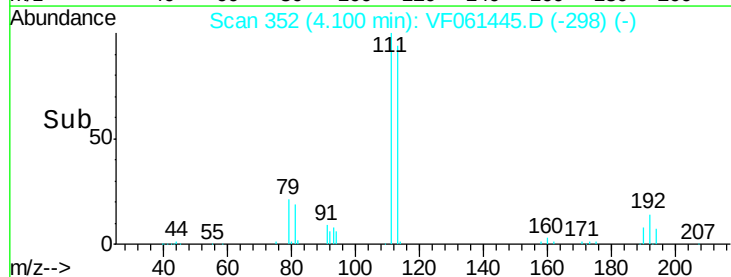
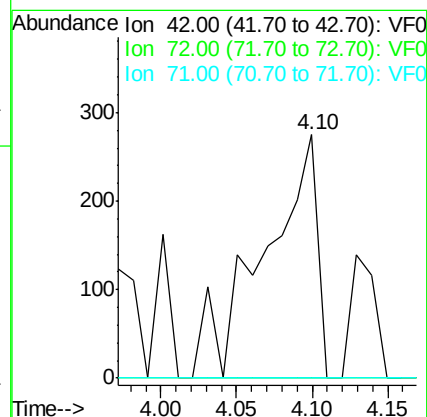
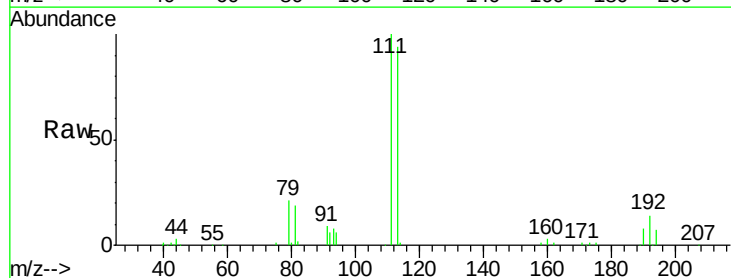
Tgt Ion: 42 Resp: 679

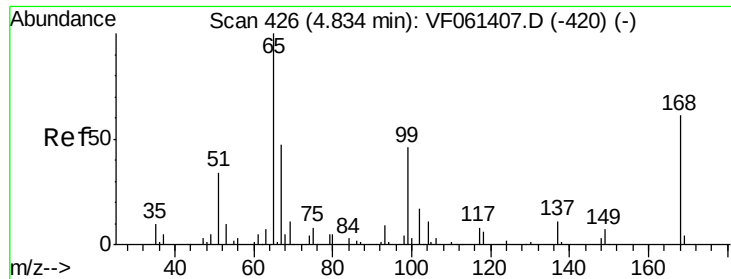
Ion Ratio Lower Upper

42 100

72 0.0 28.9 43.3#

71 0.0 29.6 44.4#





#33

1,2-Dichloroethane-d4

Concen: 62.582 ug/l

RT: 4.83 min Scan# 426

Delta R.T. -0.00 min

Lab File: VF061445.D

Acq: 17 Jan 2019 15:26

Instrument :

MSVOA_F

ClientSampleId :

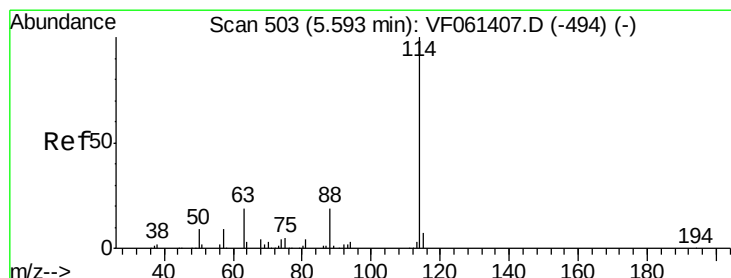
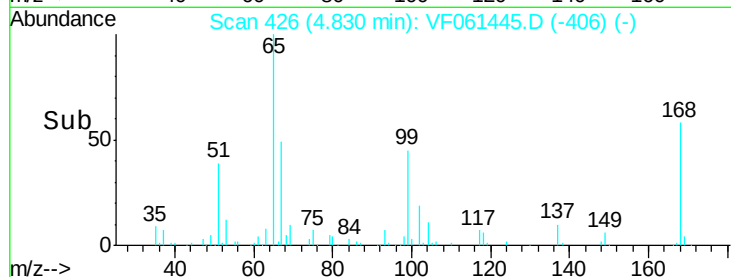
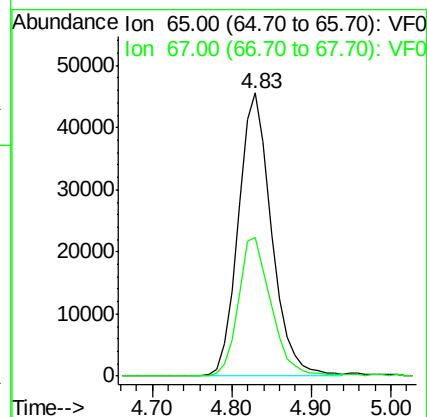
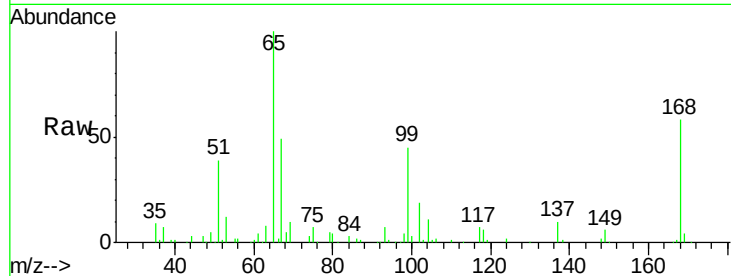
WC-06-011519RE

Tot Ion: 65 Resp: 131923

Ion Ratio Lower Upper

65 100

67 48.8 0.0 99.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.58 min Scan# 502

Delta R.T. -0.01 min

Lab File: VF061445.D

Acq: 17 Jan 2019 15:26

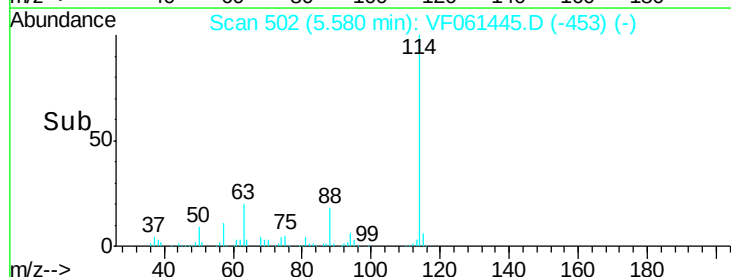
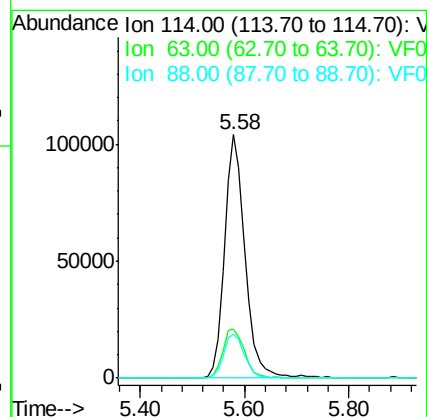
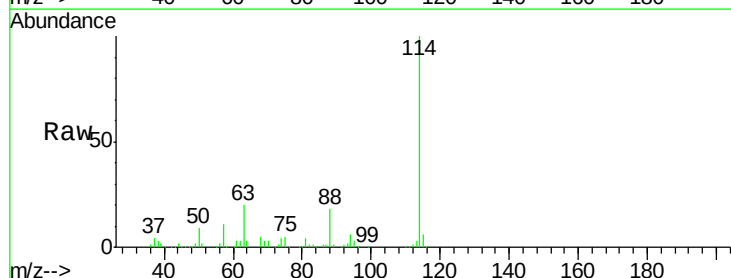
Tgt Ion: 114 Resp: 282984

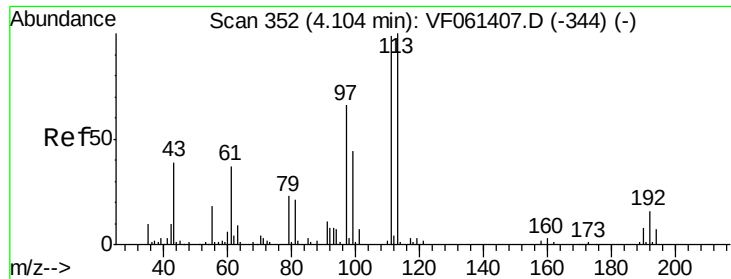
Ion Ratio Lower Upper

114 100

63 20.1 0.0 39.0

88 18.0 0.0 37.4





#35

Dibromofluoromethane

Concen: 65.413 ug/l

RT: 4.10 min Scan# 352

Delta R.T. -0.00 min

Lab File: VF061445.D

Acq: 17 Jan 2019 15:26

Instrument :

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ClientSampleId :

WC-06-011519RE

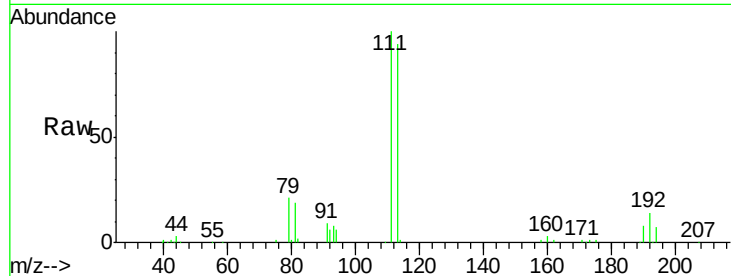
Tot Ion:113 Resp: 146066

Ion Ratio Lower Upper

113 100

111 106.6 79.4 119.0

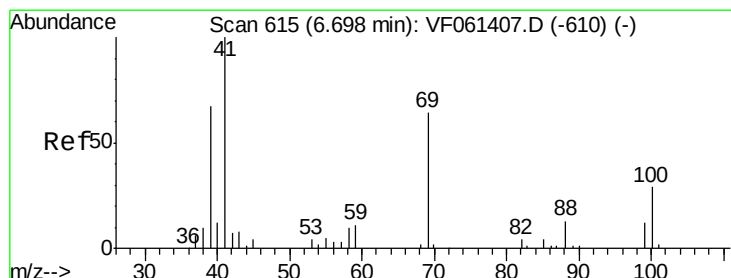
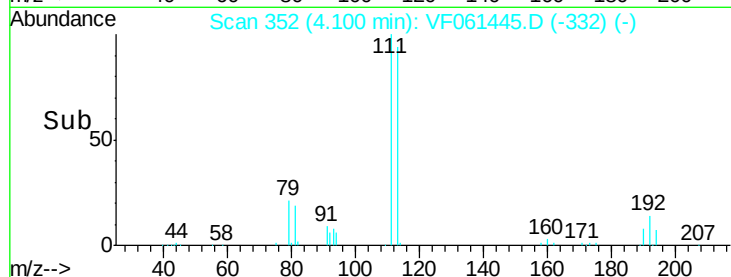
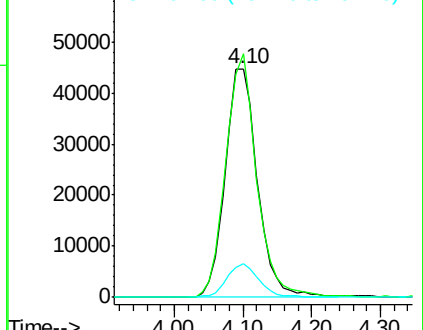
192 15.2 12.4 18.6



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



#49

1,4-Dioxane

Concen: Below Cal

RT: 6.23 min Scan# 568

Delta R.T. -0.47 min

Lab File: VF061445.D

Acq: 17 Jan 2019 15:26

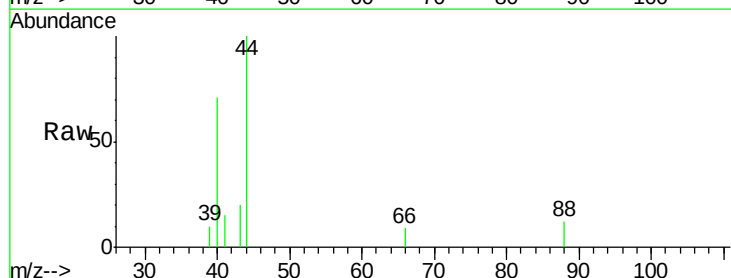
Tgt Ion: 88 Resp: 81

Ion Ratio Lower Upper

88 100

43 170.1 55.5 83.3#

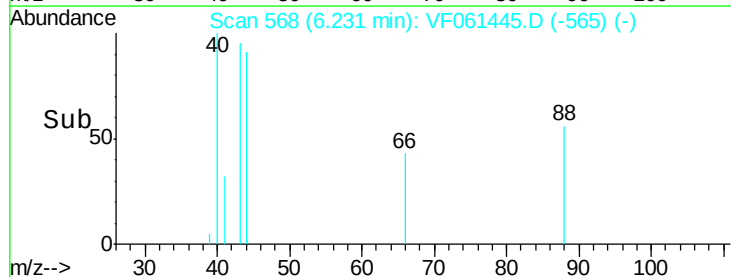
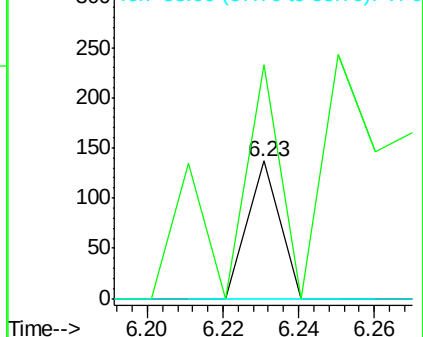
58 0.0 59.9 89.9#

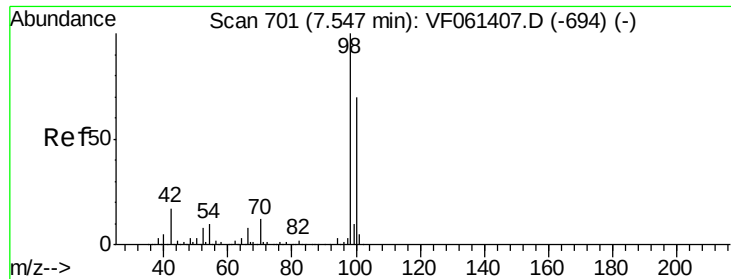


Abundance Ion 88.00 (87.70 to 88.70): VF0

Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0





#50

Toluene-d8

Concen: 53.405 ug/l

RT: 7.54 min Scan# 701

Delta R.T. -0.00 min

Lab File: VF061445.D

Acq: 17 Jan 2019 15:26

Instrument :

MSVOA_F

ClientSampleId :

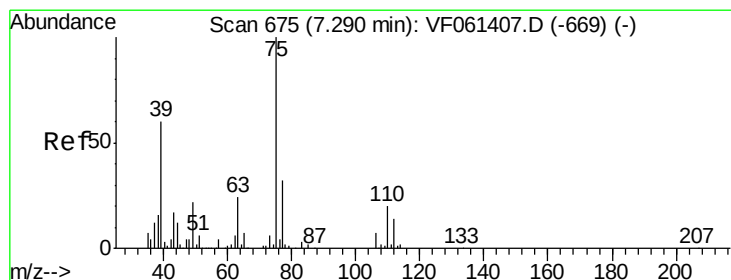
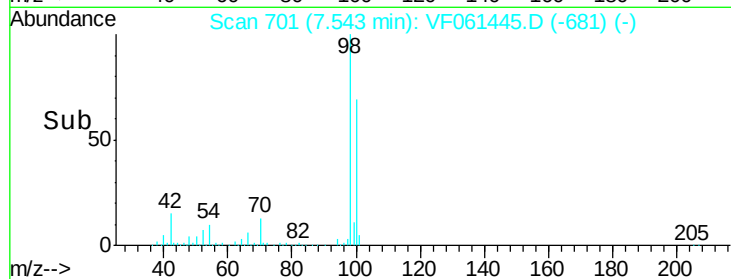
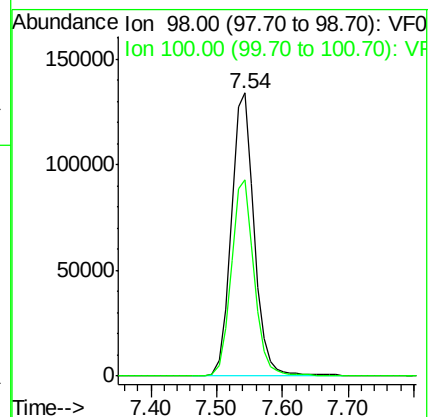
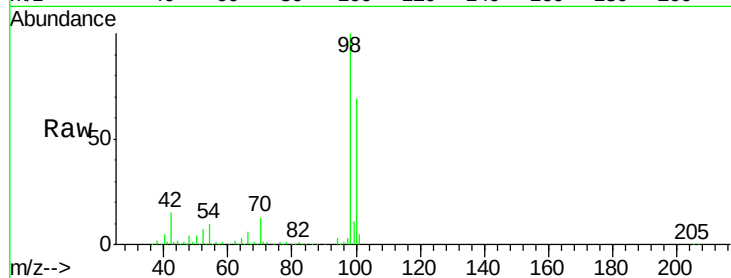
WC-06-011519RE

Tot Ion: 98 Resp: 326732

Ion Ratio Lower Upper

98 100

100 69.3 55.6 83.4



#58

2-Chloroethyl Vinyl ether

Concen: 27.892 ug/l

RT: 7.26 min Scan# 672

Delta R.T. -0.03 min

Lab File: VF061445.D

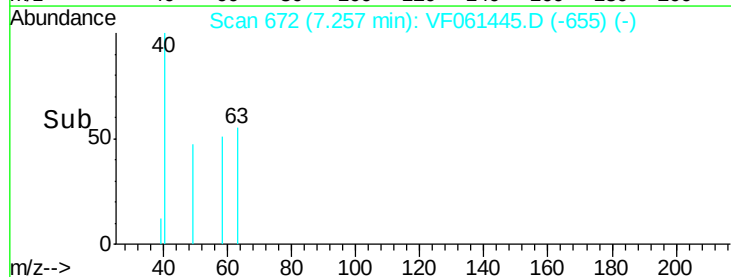
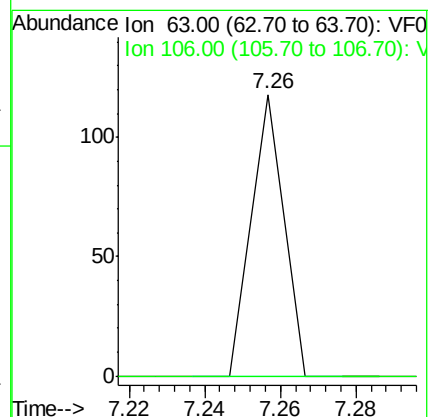
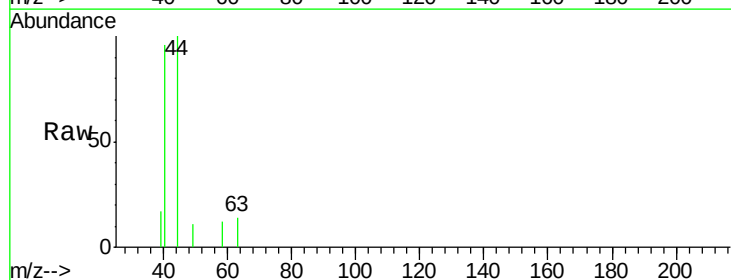
Acq: 17 Jan 2019 15:26

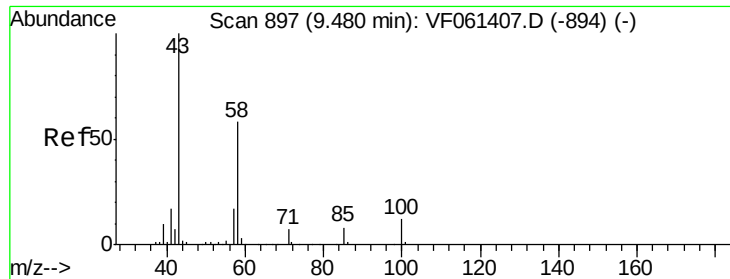
Tgt Ion: 63 Resp: 70

Ion Ratio Lower Upper

63 100

106 0.0 21.9 32.9#





#59

2-Hexanone

Concen: 1.205 ug/l

RT: 9.49 min Scan# 898

Delta R.T. 0.01 min

Lab File: VF061445.D

Acq: 17 Jan 2019 15:26

Instrument :

MSVOA_F

ClientSampleId :

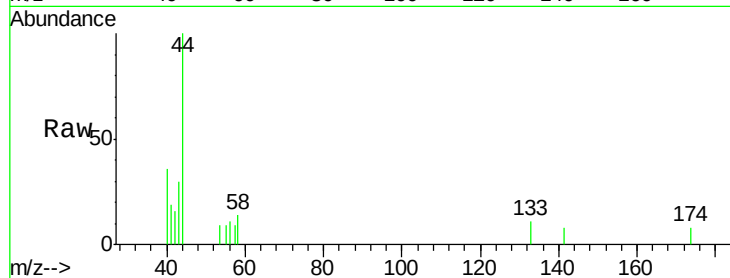
WC-06-011519RE

Tot Ion: 43 Resp: 1017

Ion Ratio Lower Upper

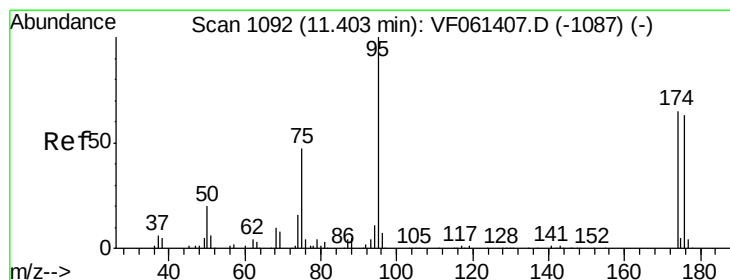
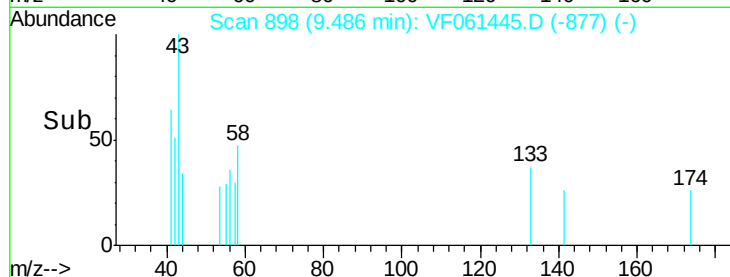
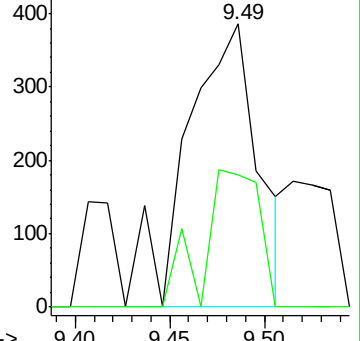
43 100

58 46.6 25.9 77.6



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#62

4-Bromofluorobenzene

Concen: 34.922 ug/l

RT: 11.40 min Scan# 1092

Delta R.T. -0.00 min

Lab File: VF061445.D

Acq: 17 Jan 2019 15:26

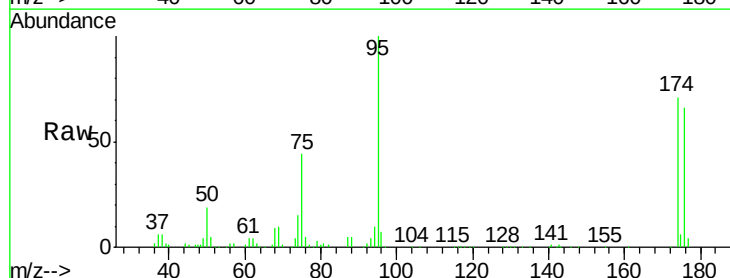
Tgt Ion: 95 Resp: 99825

Ion Ratio Lower Upper

95 100

174 70.8 0.0 130.4

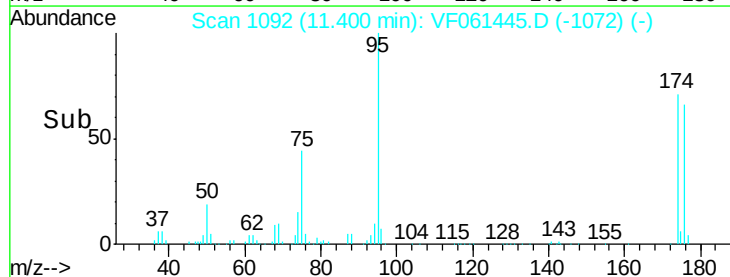
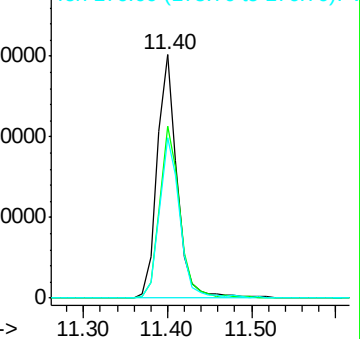
176 65.9 0.0 126.2

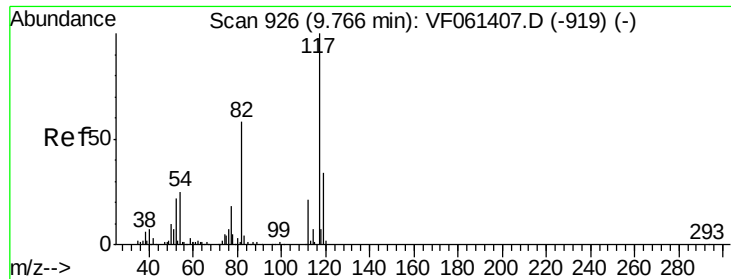


Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V

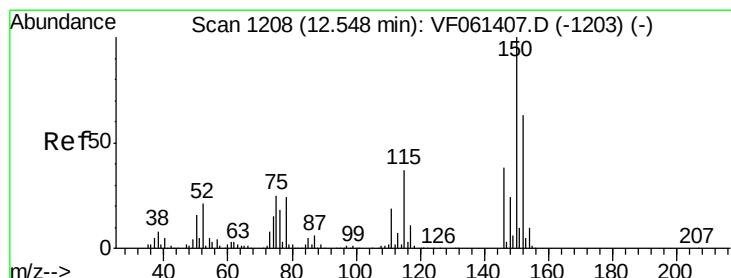
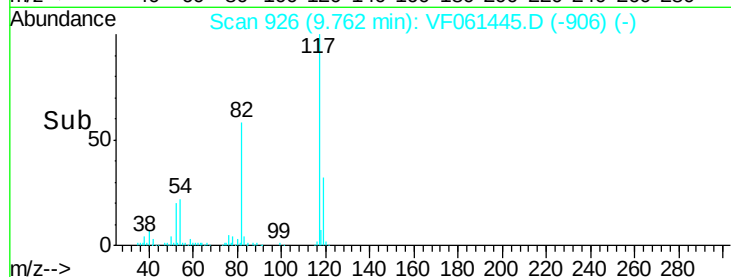
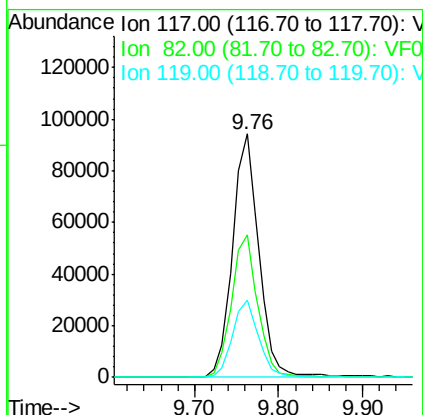
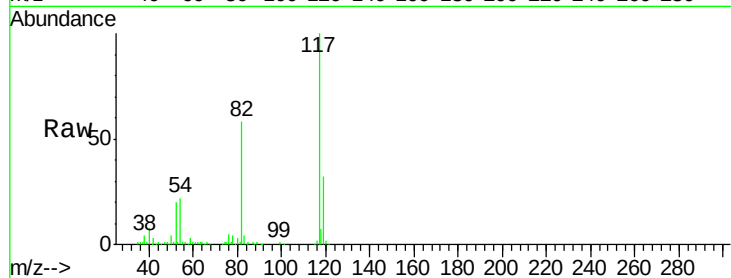




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.76 min Scan# 926
Delta R.T. -0.00 min
Lab File: VF061445.D
Acq: 17 Jan 2019 15:26

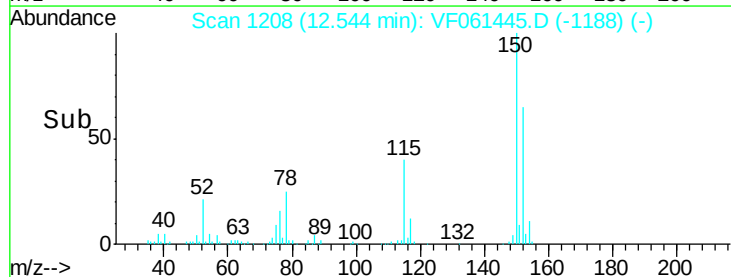
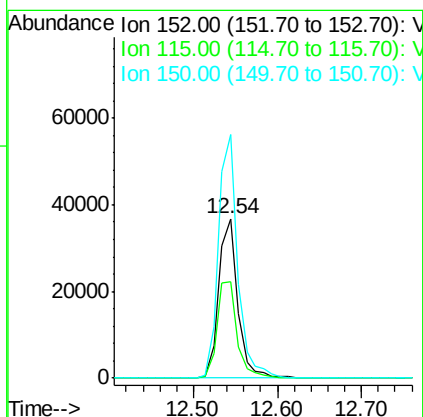
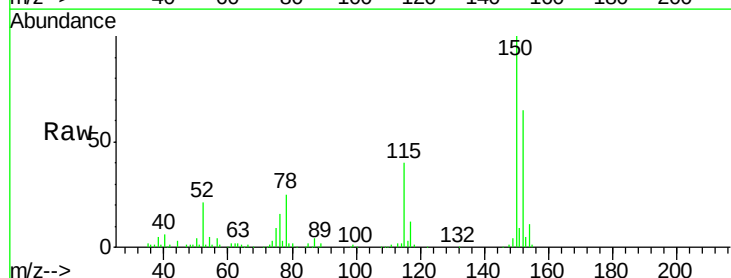
Instrument :
MSVOA_F
ClientSampleId :
WC-06-011519RE

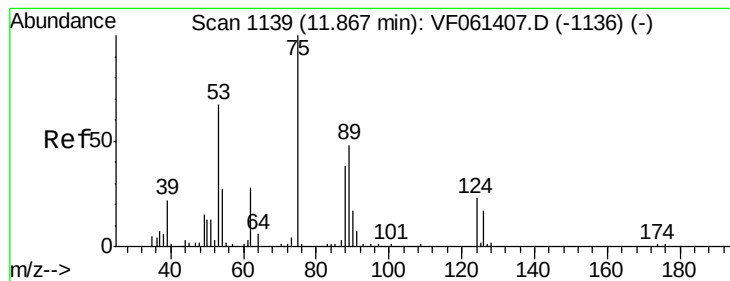
Tot Ion:117 Resp: 205030
Ion Ratio Lower Upper
117 100
82 58.4 46.4 69.6
119 31.6 27.2 40.8



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.54 min Scan# 1208
Delta R.T. -0.00 min
Lab File: VF061445.D
Acq: 17 Jan 2019 15:26

Tgt Ion:152 Resp: 58271
Ion Ratio Lower Upper
152 100
115 60.6 30.0 90.0
150 152.7 0.0 321.4





#81

trans-1,4-Dichloro-2-butene

Concen: 1.035 ug/l

RT: 11.86 min Scan# 1139

Delta R.T. -0.00 min

Lab File: VF061445.D

Acq: 17 Jan 2019 15:26

Instrument :

MSVOA_F

ClientSampleId :

WC-06-011519RE

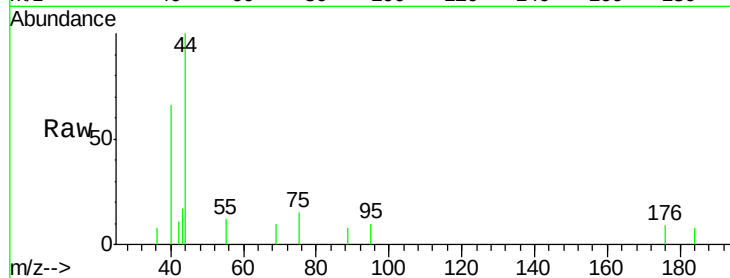
Tot Ion: 75 Resp: 273

Ion Ratio Lower Upper

75 100

53 0.0 57.8 86.6#

89 0.0 40.7 61.1#



Abundance Ion 75.00 (74.70 to 75.70): VF0
Ion 53.00 (52.70 to 53.70): VF0
Ion 89.00 (88.70 to 89.70): VF0

