

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF020719\
 Data File : VF061548.D
 Acq On : 7 Feb 2019 16:44
 Operator : VA/AP
 Sample : K1401-05
 Misc : 6.75g/5mL/MSVOA-F/SOIL
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :

Quant Time: Feb 09 04:35:28 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

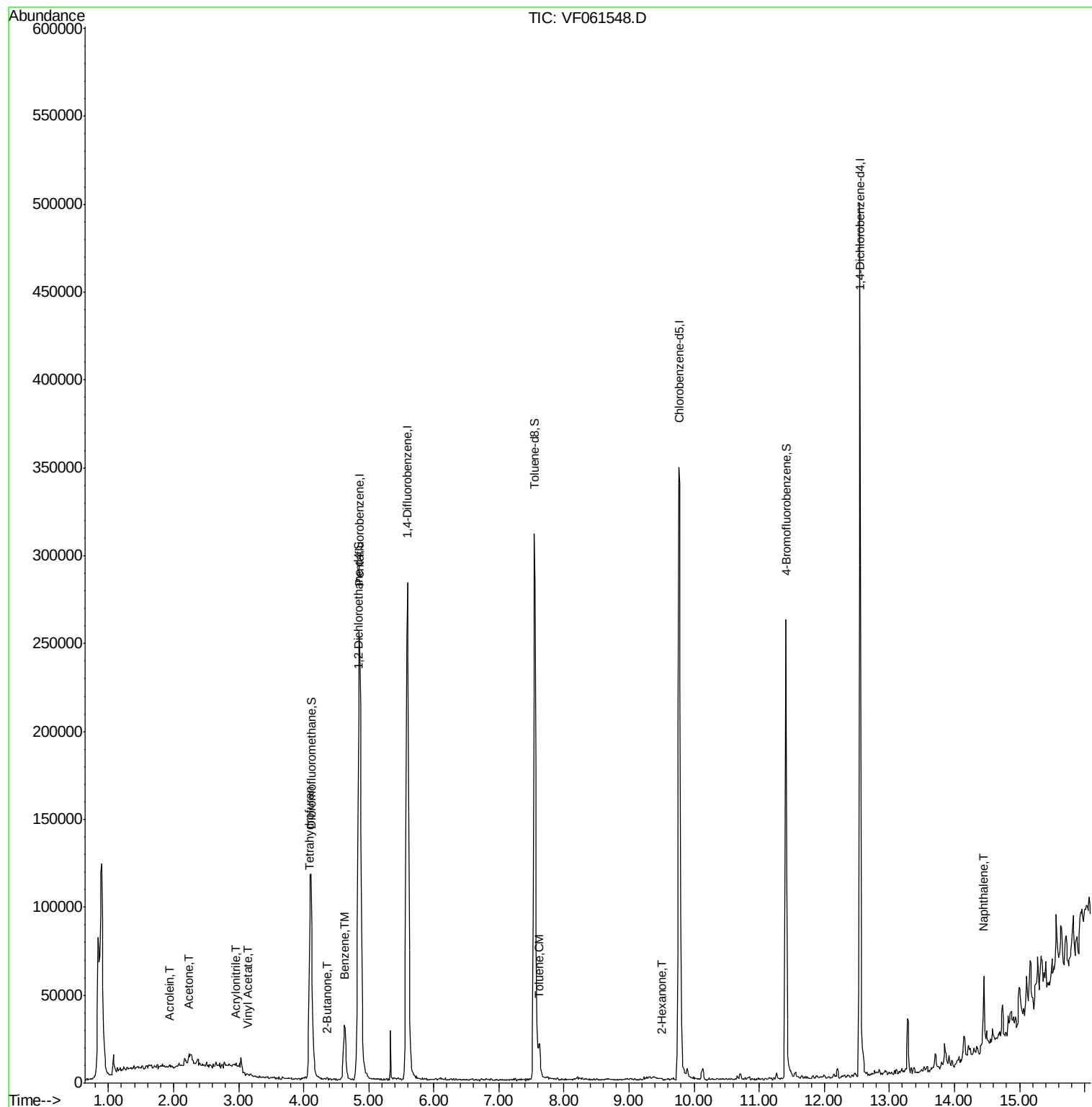
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.86	168	190322	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.59	114	319255	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.78	117	258562	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.55	152	117144	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.83	65	102170	43.48	ug/l	0.00
Spiked Amount 50.000			Recovery	=	86.96%	
35) Dibromofluoromethane	4.11	113	116024	46.06	ug/l	0.00
Spiked Amount 50.000			Recovery	=	92.12%	
50) Toluene-d8	7.55	98	260918	37.80	ug/l	0.00
Spiked Amount 50.000			Recovery	=	75.60%	
62) 4-Bromofluorobenzene	11.40	95	109179	33.86	ug/l	0.00
Spiked Amount 50.000			Recovery	=	67.72%	
Target Compounds						
					Qvalue	
13) Acrolein	1.93	56	374	14.522	ug/l	91
14) Allyl chloride	2.06	41	233	Below Cal	#	74
15) Acrylonitrile	2.95	53	994	3.902	ug/l #	66
16) Acetone	2.24	43	5508	11.685	ug/l	98
20) Methylene Chloride	2.17	84	2414	Below Cal	#	56
23) Vinyl Acetate	3.15	43	692	3.452	ug/l #	78
25) 2-Butanone	4.35	43	1273	1.624	ug/l #	57
29) Tetrahydrofuran	4.08	42	566	1.677	ug/l #	71
40) Benzene	4.64	78	38164	4.633	ug/l	96
49) 1,4-Dioxane	6.50	88	75	Below Cal	#	13
52) Toluene	7.62	92	10065	1.856	ug/l	92
59) 2-Hexanone	9.49	43	1385	1.455	ug/l	87
95) Naphthalene	14.45	128	24458	4.882	ug/l	99

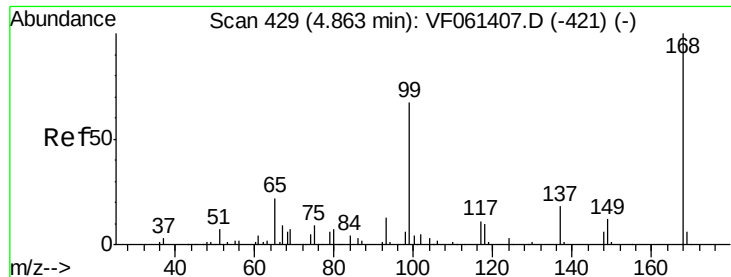
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VF061548.D

Acq: 7 Feb 2019 16:44

Instrument :

MSVOA_F

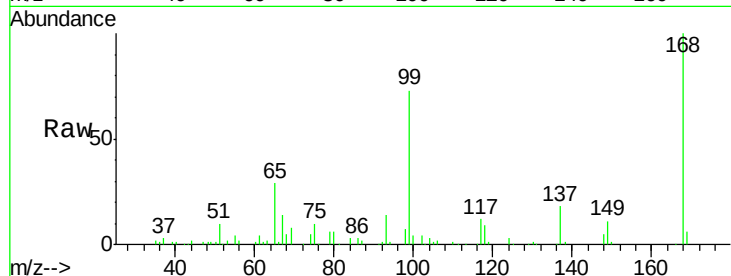
ClientSampleId :

Tot Ion:168 Resp: 190322

Ion Ratio Lower Upper

168 100

99 72.7 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

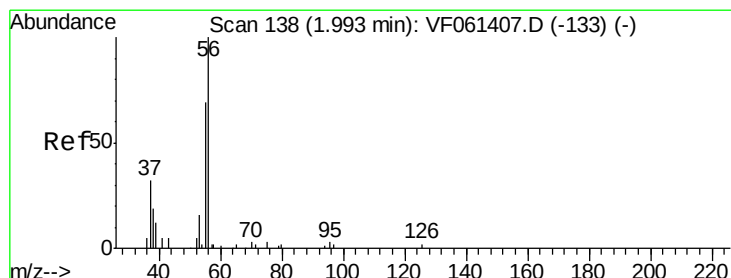
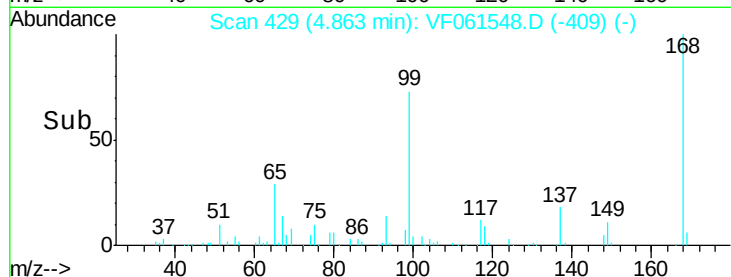
40000

20000

0

Time-->

4.70 4.80 4.90 5.00 5.10



#13

Acrolein

Concen: 14.522 ug/l

RT: 1.93 min Scan# 132

Delta R.T. -0.06 min

Lab File: VF061548.D

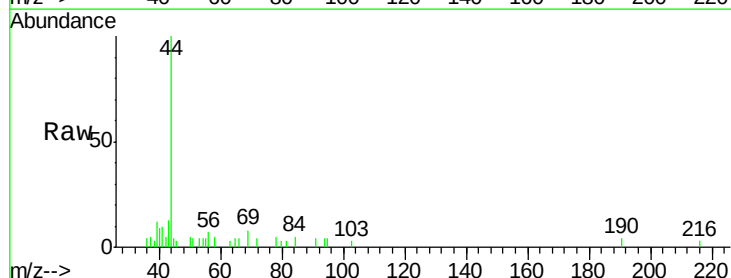
Acq: 7 Feb 2019 16:44

Tgt Ion: 56 Resp: 374

Ion Ratio Lower Upper

56 100

55 64.4 57.5 86.3



Abundance Ion 56.00 (55.70 to 56.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

1.93

300

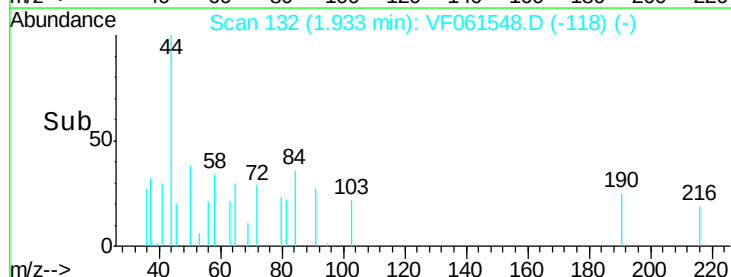
200

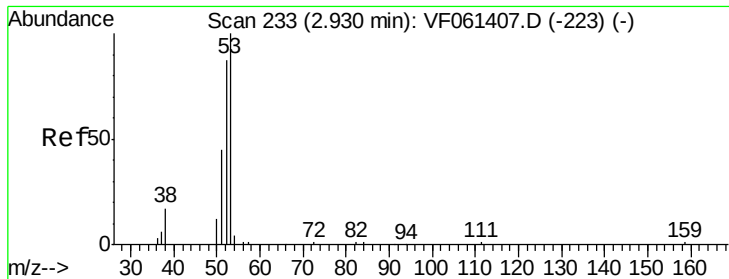
100

0

Time-->

1.90 1.92 1.94





#15

Acrylonitrile

Concen: 3.902 ug/l

RT: 2.95 min Scan# 235

Delta R.T. 0.02 min

Lab File: VF061548.D

Acq: 7 Feb 2019 16:44

Instrument :

MSVOA_F

ClientSampled :

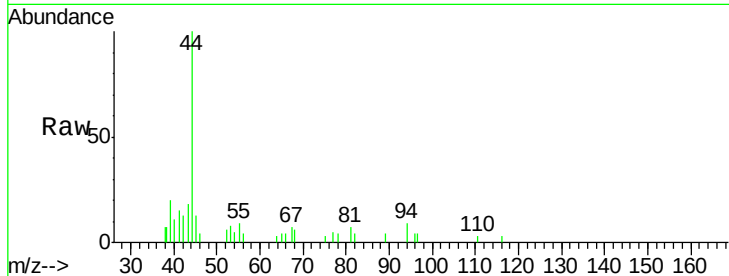
Tot Ion: 53 Resp: 994

Ion Ratio Lower Upper

53 100

52 73.1 69.6 104.4

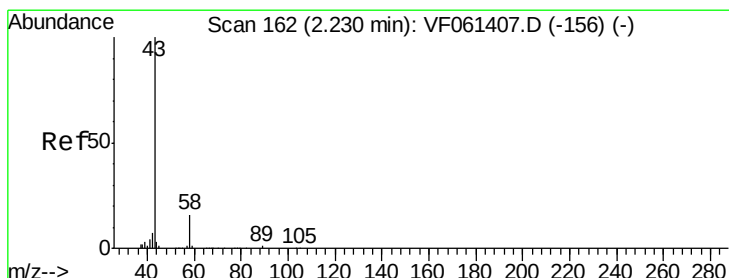
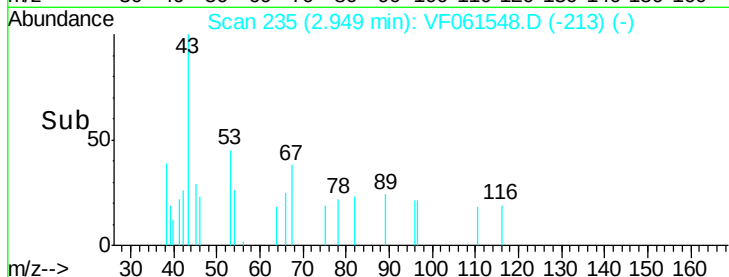
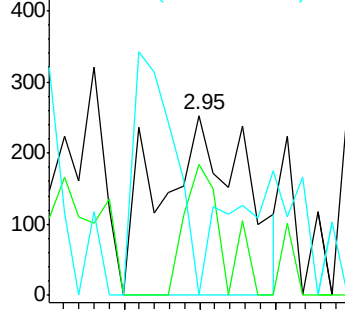
51 0.0 36.8 55.2#



Abundance Ion 53.00 (52.70 to 53.70): VF0

Ion 52.00 (51.70 to 52.70): VF0

Ion 51.00 (50.70 to 51.70): VF0



#16

Acetone

Concen: 11.685 ug/l

RT: 2.24 min Scan# 163

Delta R.T. 0.01 min

Lab File: VF061548.D

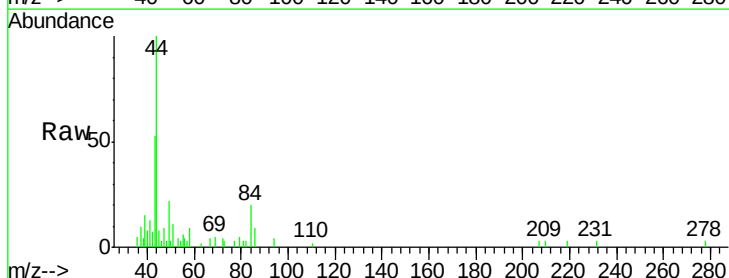
Acq: 7 Feb 2019 16:44

Tgt Ion: 43 Resp: 5508

Ion Ratio Lower Upper

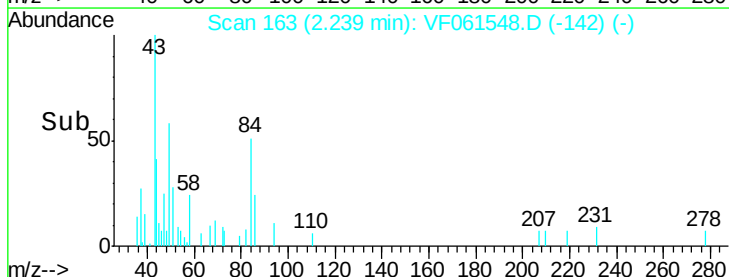
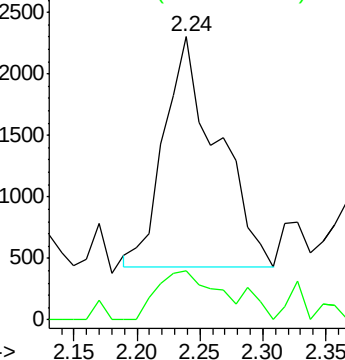
43 100

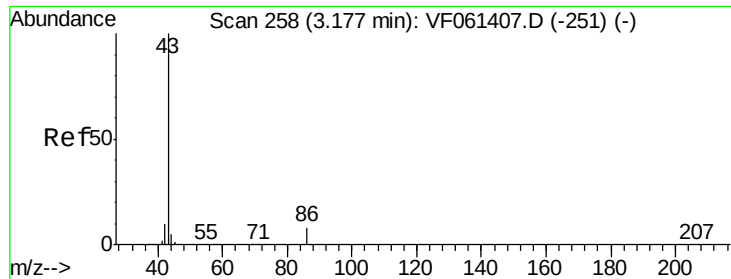
58 17.5 13.3 19.9



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0





#23

Vinyl Acetate

Concen: 3.452 ug/l

RT: 3.15 min Scan# 255

Delta R.T. -0.03 min

Lab File: VF061548.D

Acq: 7 Feb 2019 16:44

Instrument :

MSVOA_F

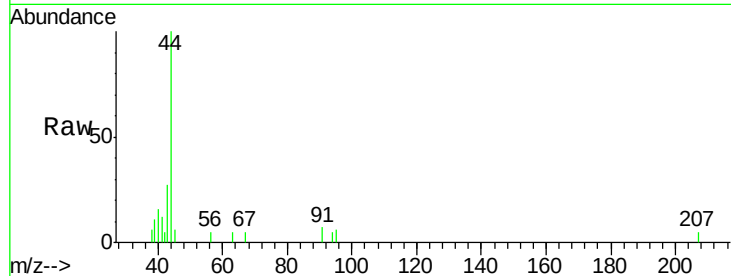
ClientSampleId :

Tot Ion: 43 Resp: 692

Ion Ratio Lower Upper

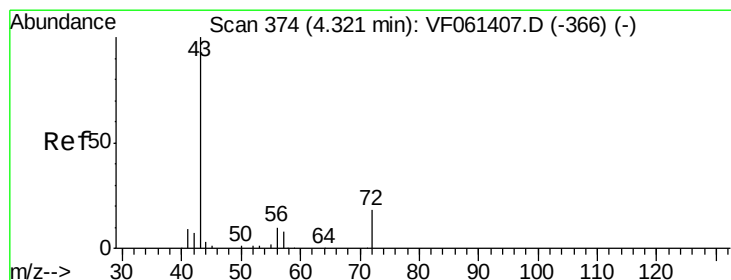
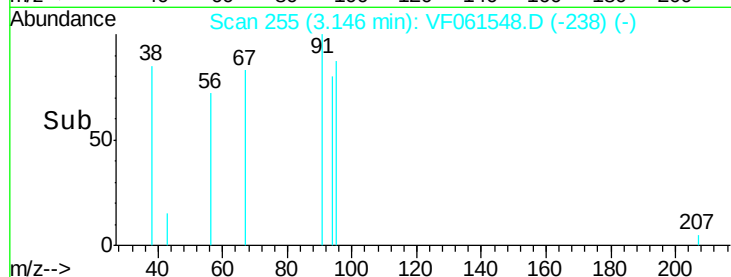
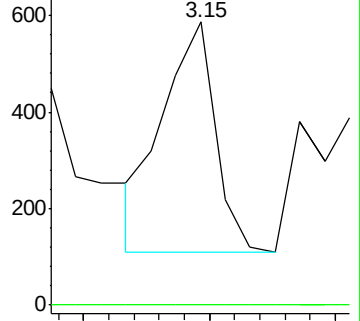
43 100

86 0.0 6.2 9.4#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 86.00 (85.70 to 86.70): VF0



#25

2-Butanone

Concen: 1.624 ug/l

RT: 4.35 min Scan# 377

Delta R.T. 0.03 min

Lab File: VF061548.D

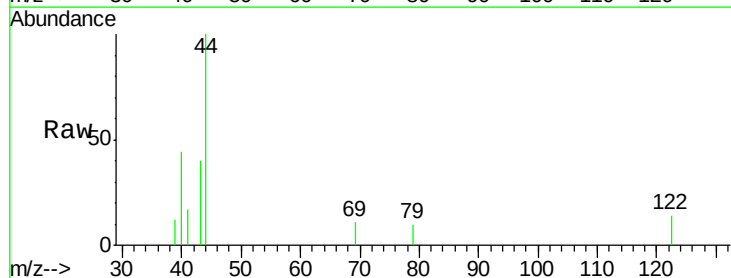
Acq: 7 Feb 2019 16:44

Tgt Ion: 43 Resp: 1273

Ion Ratio Lower Upper

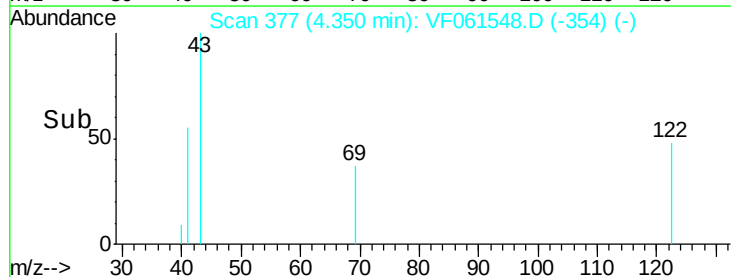
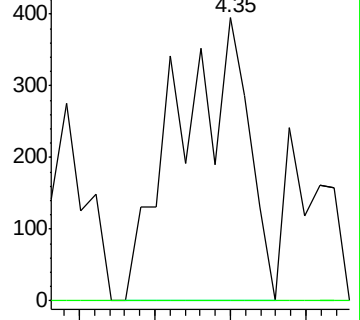
43 100

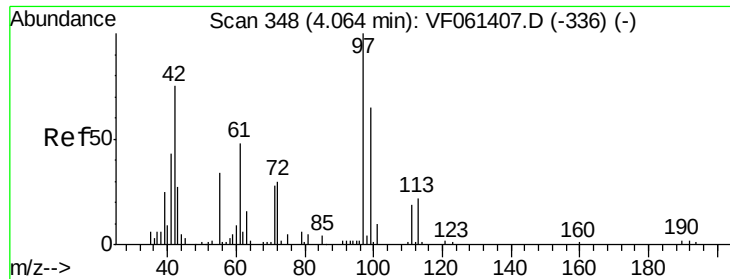
72 0.0 15.8 23.6#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 72.00 (71.70 to 72.70): VF0





#29

Tetrahydrofuran

Concen: 1.677 ug/l

RT: 4.08 min Scan# 350

Delta R.T. 0.02 min

Lab File: VF061548.D

Acq: 7 Feb 2019 16:44

Instrument :

MSVOA_F

ClientSampleId :

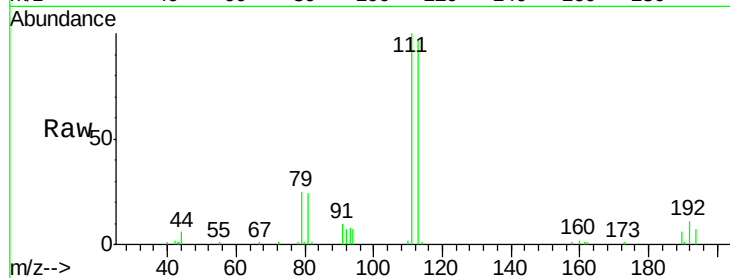
Tot Ion: 42 Resp: 566

Ion Ratio Lower Upper

42 100

72 28.4 28.9 43.3#

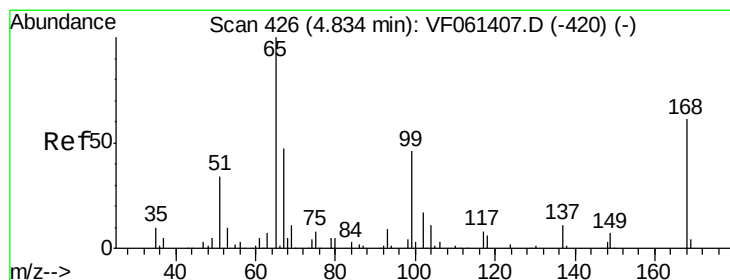
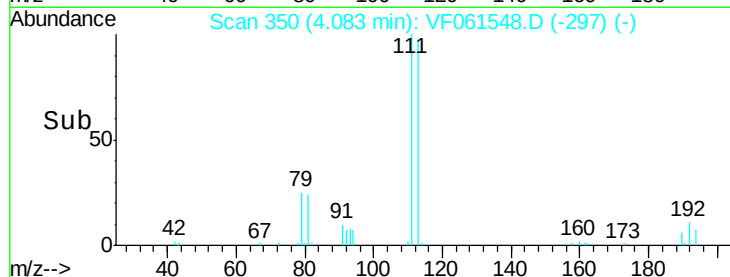
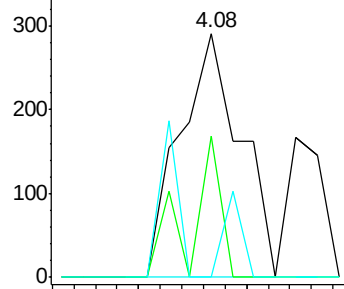
71 10.6 29.6 44.4#



Abundance Ion 42.00 (41.70 to 42.70): VF0

Ion 72.00 (71.70 to 72.70): VF0

Ion 71.00 (70.70 to 71.70): VF0



#33

1,2-Dichloroethane-d4

Concen: 43.481 ug/l

RT: 4.83 min Scan# 426

Delta R.T. -0.00 min

Lab File: VF061548.D

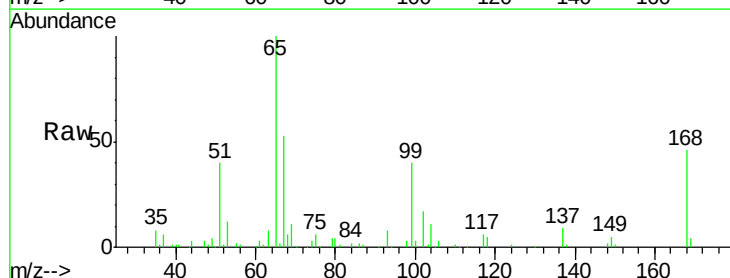
Acq: 7 Feb 2019 16:44

Tgt Ion: 65 Resp: 102170

Ion Ratio Lower Upper

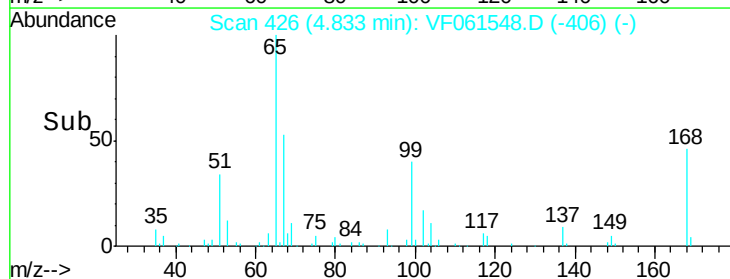
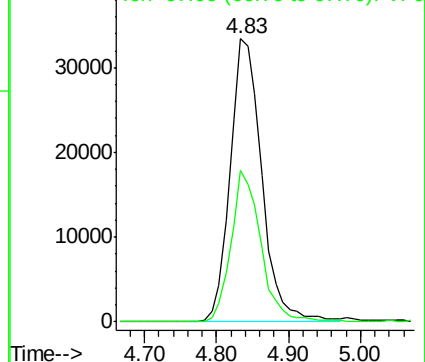
65 100

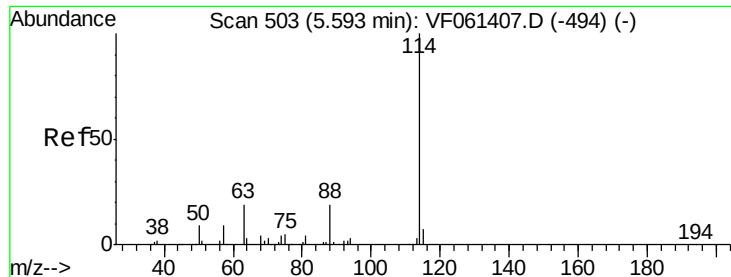
67 53.3 0.0 99.8



Abundance Ion 65.00 (64.70 to 65.70): VF0

Ion 67.00 (66.70 to 67.70): VF0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.59 min Scan# 503

Delta R.T. -0.00 min

Lab File: VF061548.D

Acq: 7 Feb 2019 16:44

Instrument :

MSVOA_F

ClientSampleId :

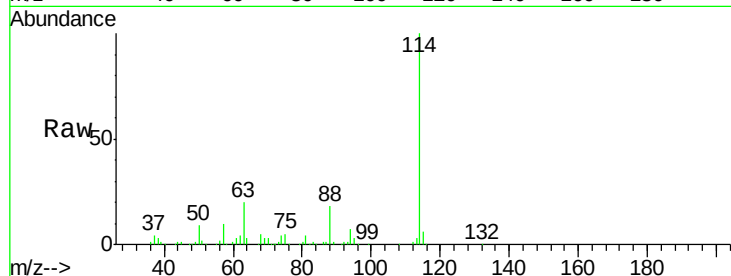
Tot Ion:114 Resp: 319255

Ion Ratio Lower Upper

114 100

63 20.2 0.0 39.0

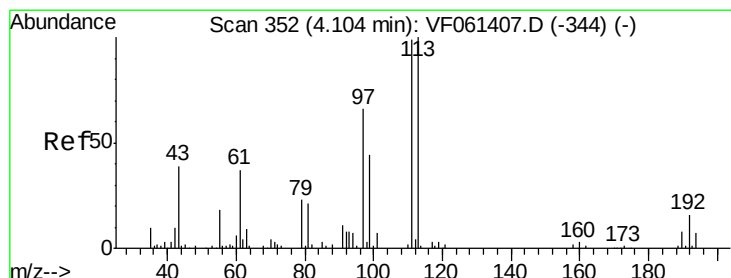
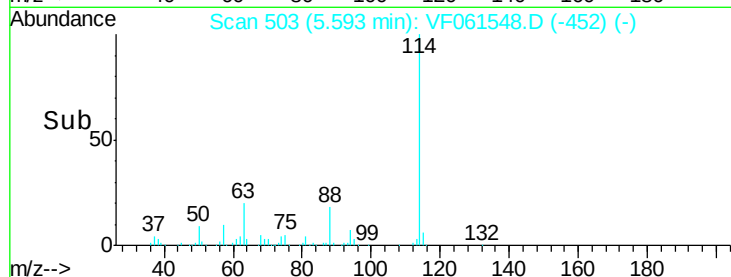
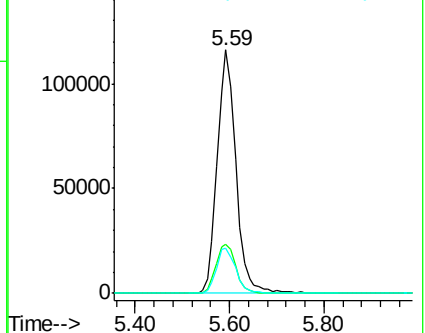
88 18.5 0.0 37.4



Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VF0

Ion 88.00 (87.70 to 88.70): VF0



#35

Dibromofluoromethane

Concen: 46.056 ug/l

RT: 4.11 min Scan# 353

Delta R.T. 0.01 min

Lab File: VF061548.D

Acq: 7 Feb 2019 16:44

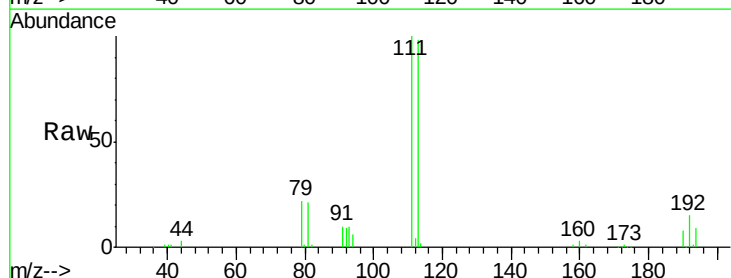
Tgt Ion:113 Resp: 116024

Ion Ratio Lower Upper

113 100

111 101.6 79.4 119.0

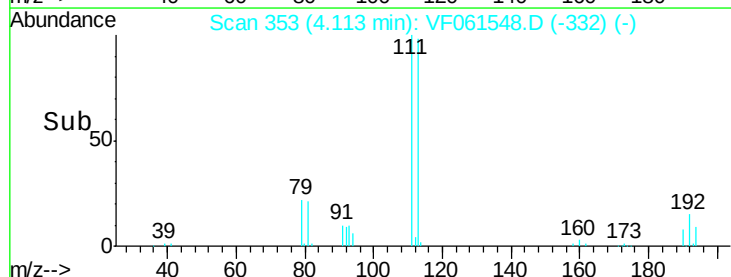
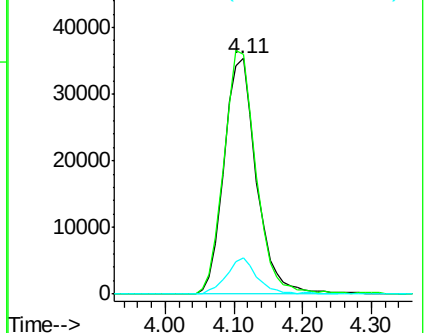
192 15.5 12.4 18.6

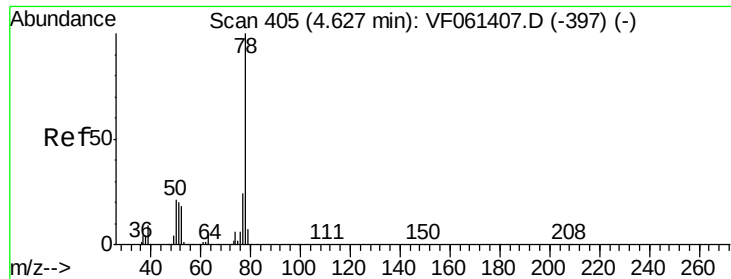


Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V





#40

Benzene

Concen: 4.633 ug/l

RT: 4.64 min Scan# 406

Delta R.T. 0.01 min

Lab File: VF061548.D

Acq: 7 Feb 2019 16:44

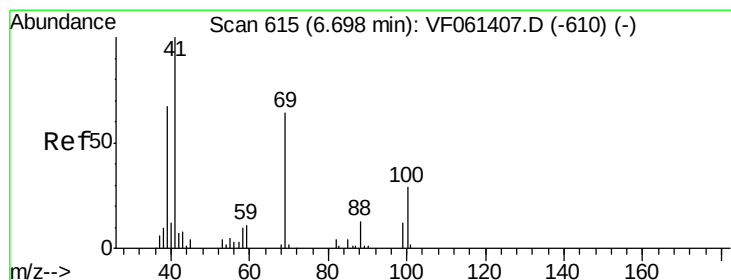
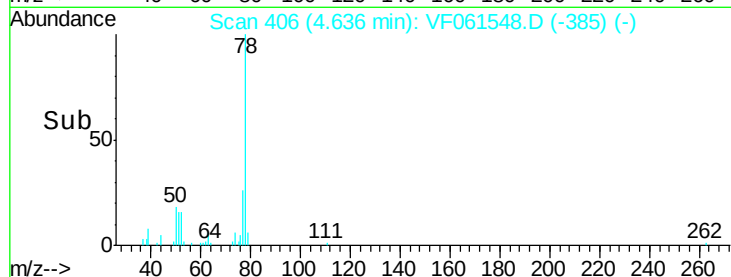
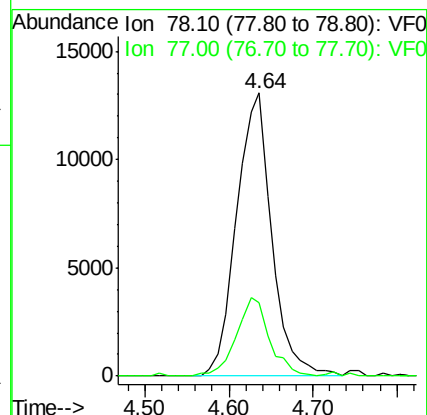
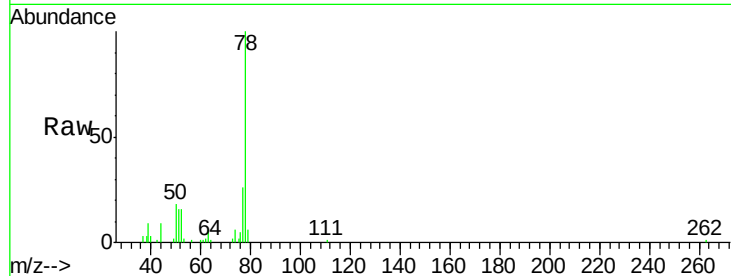
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 78 Resp: 38164

Ion Ratio Lower Upper

78 100

77 25.9 19.0 28.6



#49

1,4-Dioxane

Concen: Below Cal

RT: 6.50 min Scan# 595

Delta R.T. -0.20 min

Lab File: VF061548.D

Acq: 7 Feb 2019 16:44

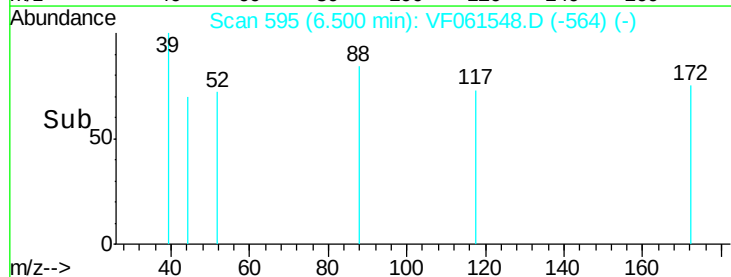
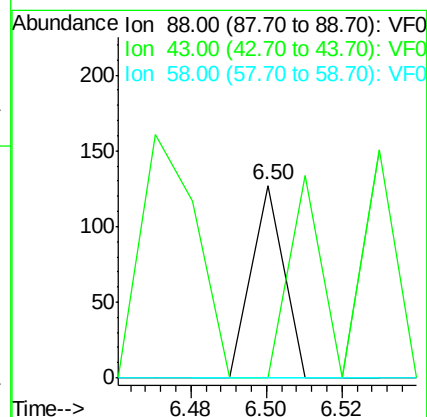
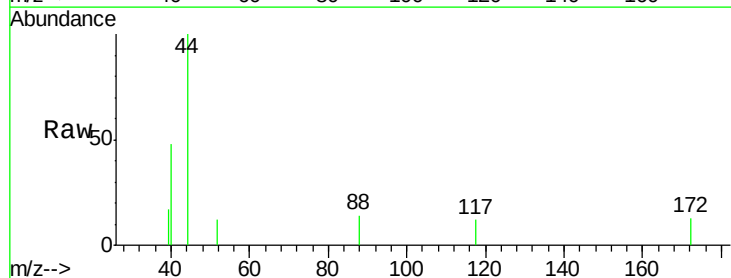
Tgt Ion: 88 Resp: 75

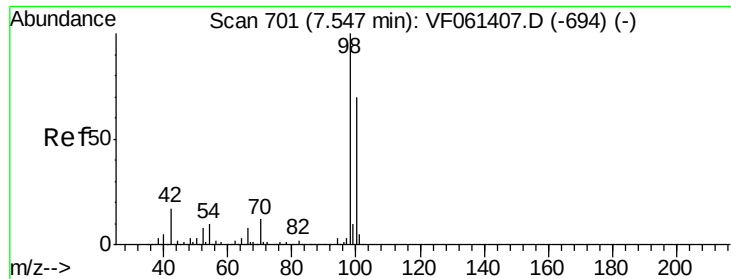
Ion Ratio Lower Upper

88 100

43 0.0 55.5 83.3#

58 0.0 59.9 89.9#





#50

Toluene-d8

Concen: 37.802 ug/l

RT: 7.55 min Scan# 701

Delta R.T. -0.00 min

Lab File: VF061548.D

Acq: 7 Feb 2019 16:44

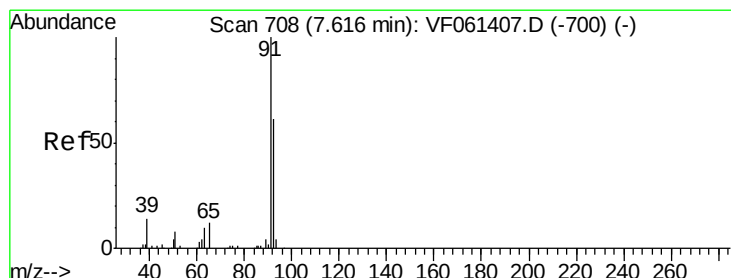
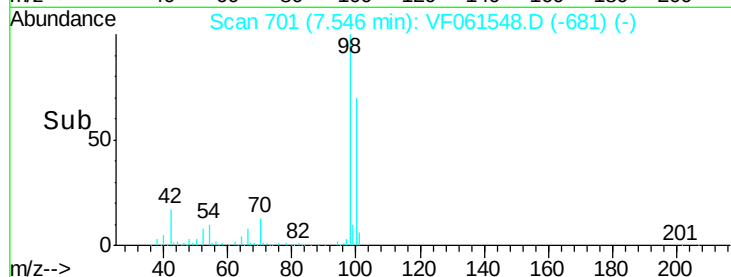
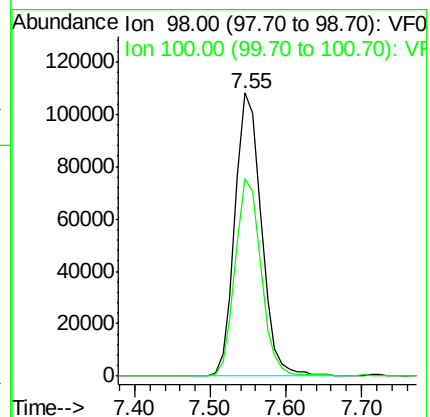
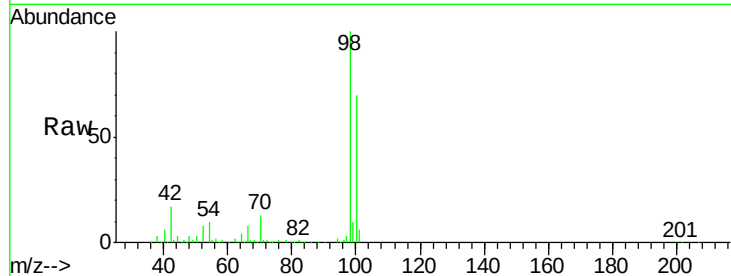
Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 98 Resp: 260918

Ion Ratio Lower Upper

98 100

100 69.7 55.6 83.4



#52

Toluene

Concen: 1.856 ug/l

RT: 7.62 min Scan# 709

Delta R.T. 0.01 min

Lab File: VF061548.D

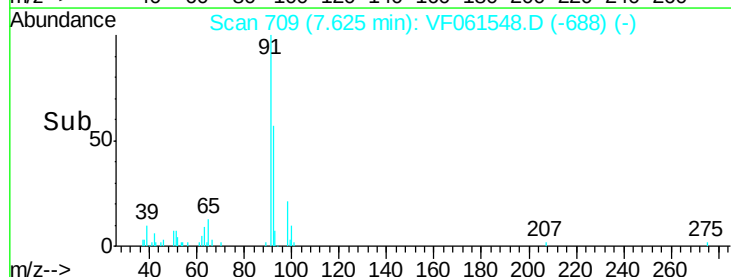
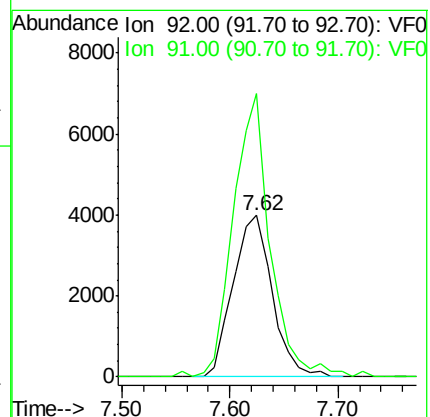
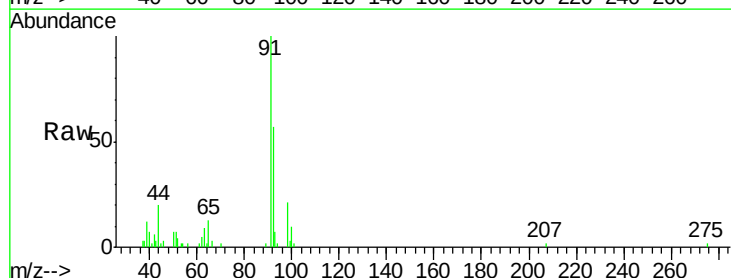
Acq: 7 Feb 2019 16:44

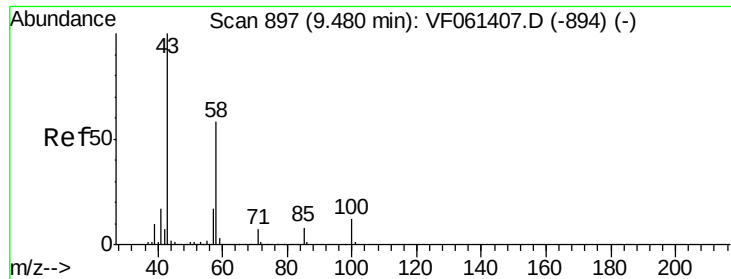
Tgt Ion: 92 Resp: 10065

Ion Ratio Lower Upper

92 100

91 175.1 131.2 196.8





#59

2-Hexanone

Concen: 1.455 ug/l

RT: 9.49 min Scan# 898

Delta R.T. 0.01 min

Lab File: VF061548.D

Acq: 7 Feb 2019 16:44

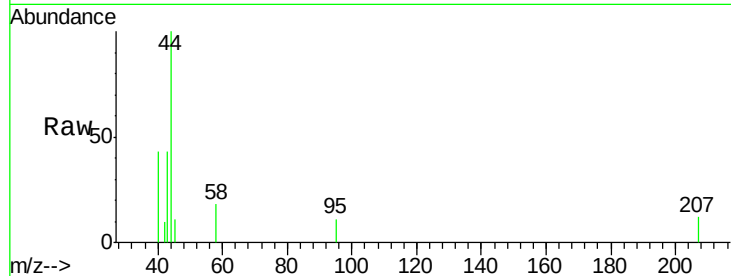
Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 43 Resp: 1385

Ion Ratio Lower Upper

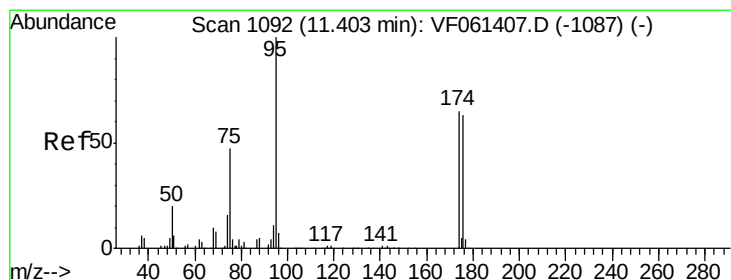
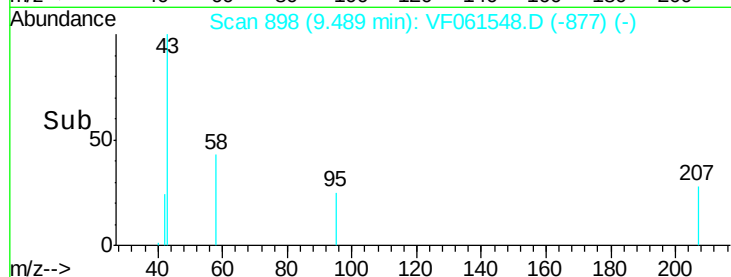
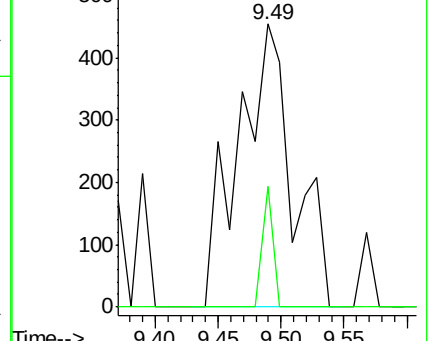
43 100

58 42.7 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: 33.855 ug/l

RT: 11.40 min Scan# 1092

Delta R.T. -0.00 min

Lab File: VF061548.D

Acq: 7 Feb 2019 16:44

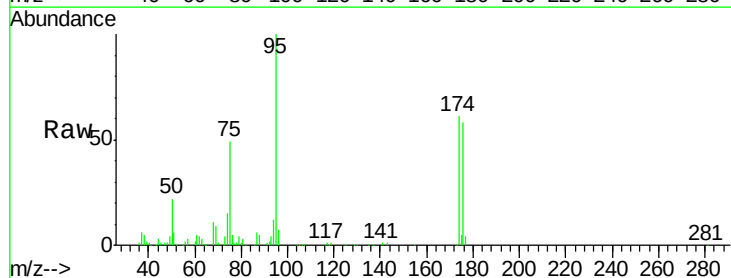
Tgt Ion: 95 Resp: 109179

Ion Ratio Lower Upper

95 100

174 60.6 0.0 130.4

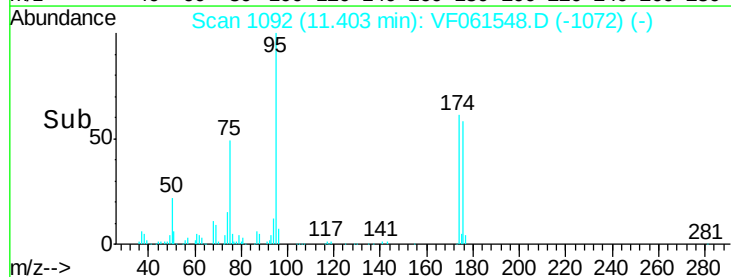
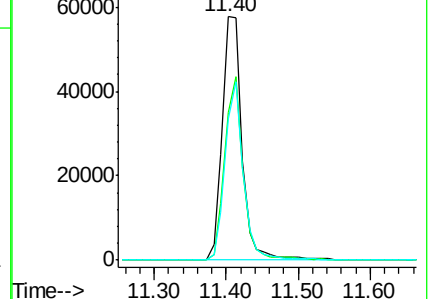
176 58.3 0.0 126.2

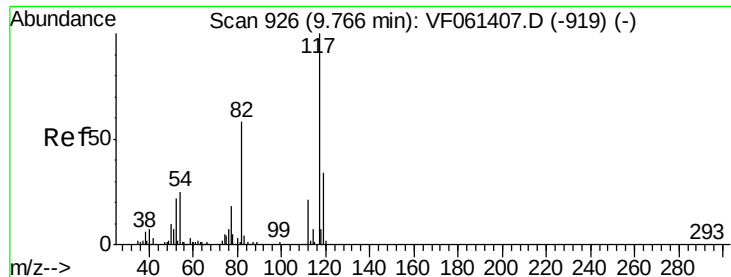


Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V

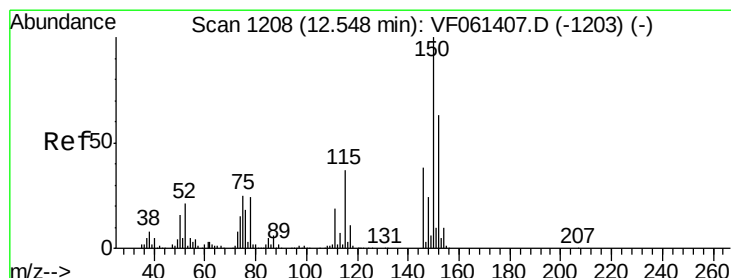
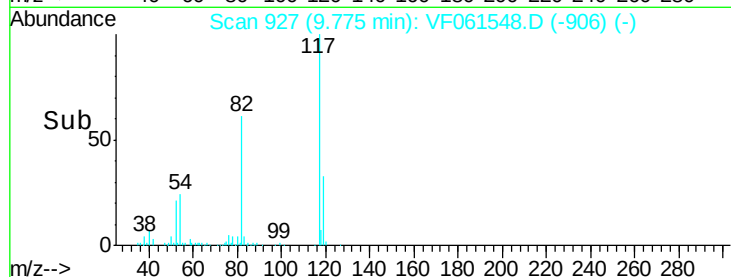
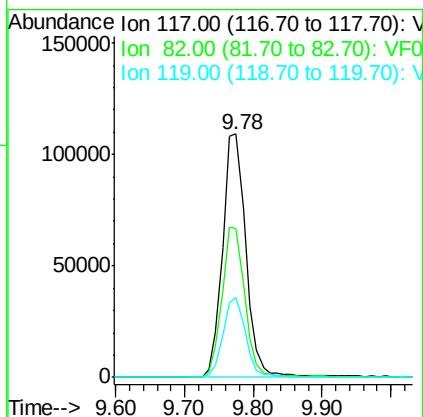
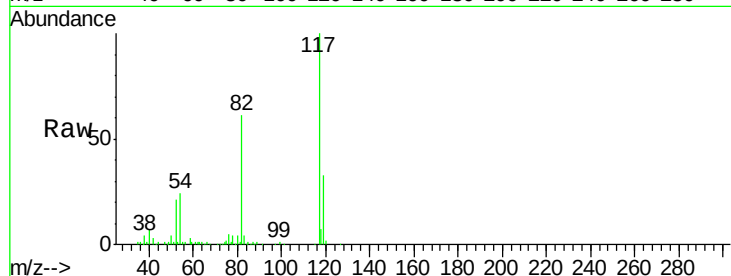




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.78 min Scan# 927
Delta R.T. 0.01 min
Lab File: VF061548.D
Acq: 7 Feb 2019 16:44

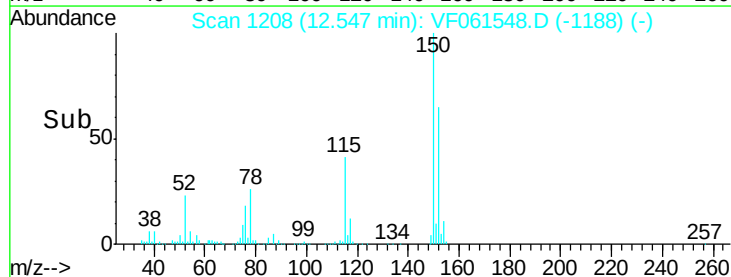
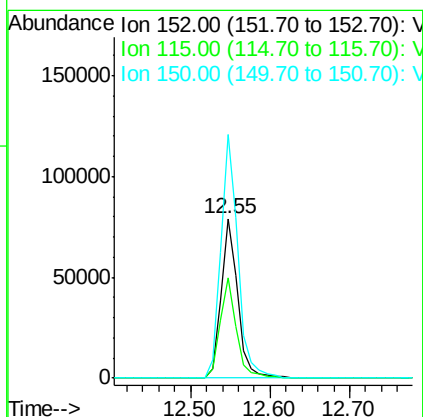
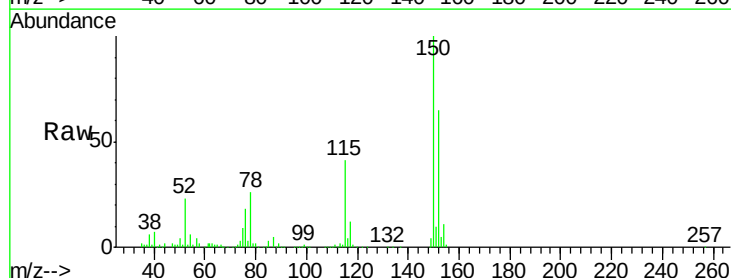
Instrument :
MSVOA_F
ClientSampled :

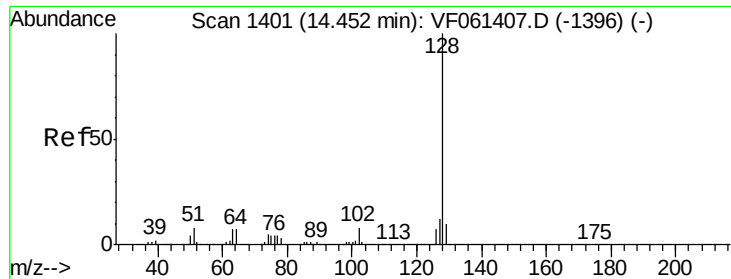
Tot Ion:117 Resp: 258562
Ion Ratio Lower Upper
117 100
82 61.0 46.4 69.6
119 32.7 27.2 40.8



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.55 min Scan# 1208
Delta R.T. -0.00 min
Lab File: VF061548.D
Acq: 7 Feb 2019 16:44

Tgt Ion:152 Resp: 117144
Ion Ratio Lower Upper
152 100
115 63.3 30.0 90.0
150 153.0 0.0 321.4

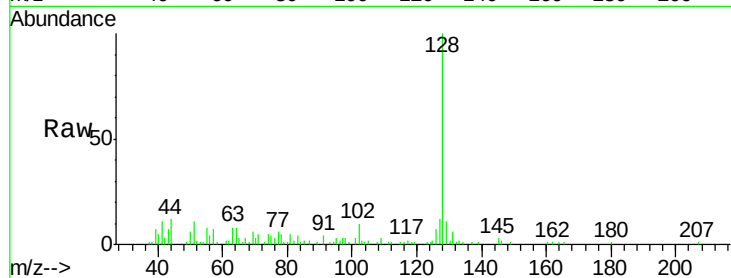




#95
 Naphthalene
 Concen: 4.882 ug/l
 RT: 14.45 min Scan# 1401
 Delta R.T. -0.00 min
 Lab File: VF061548.D
 Acq: 7 Feb 2019 16:44

Instrument :
 MSVOA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.1	9.5	14.3
129	11.1	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

