

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF020719\
 Data File : VF061551.D
 Acq On : 7 Feb 2019 18:10
 Operator : VA/AP
 Sample : K1404-02
 Misc : 5.25g/5mL/MSVOA-F/SOIL
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 A0C12-SS1-7.5-8.0

Quant Time: Feb 09 04:36:10 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	184748	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.59	114	332221	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.78	117	316268	50.00	ug/l	0.01
72) 1,4-Dichlorobenzene-d4	12.55	152	178212	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.84	65	124125	54.42	ug/l	0.01
Spiked Amount				50.000		
			Recovery	=	108.84%	
35) Dibromofluoromethane	4.10	113	135705	51.77	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	103.54%	
50) Toluene-d8	7.55	98	329801	45.92	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	91.84%	
62) 4-Bromofluorobenzene	11.40	95	169417	50.48	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	100.96%	

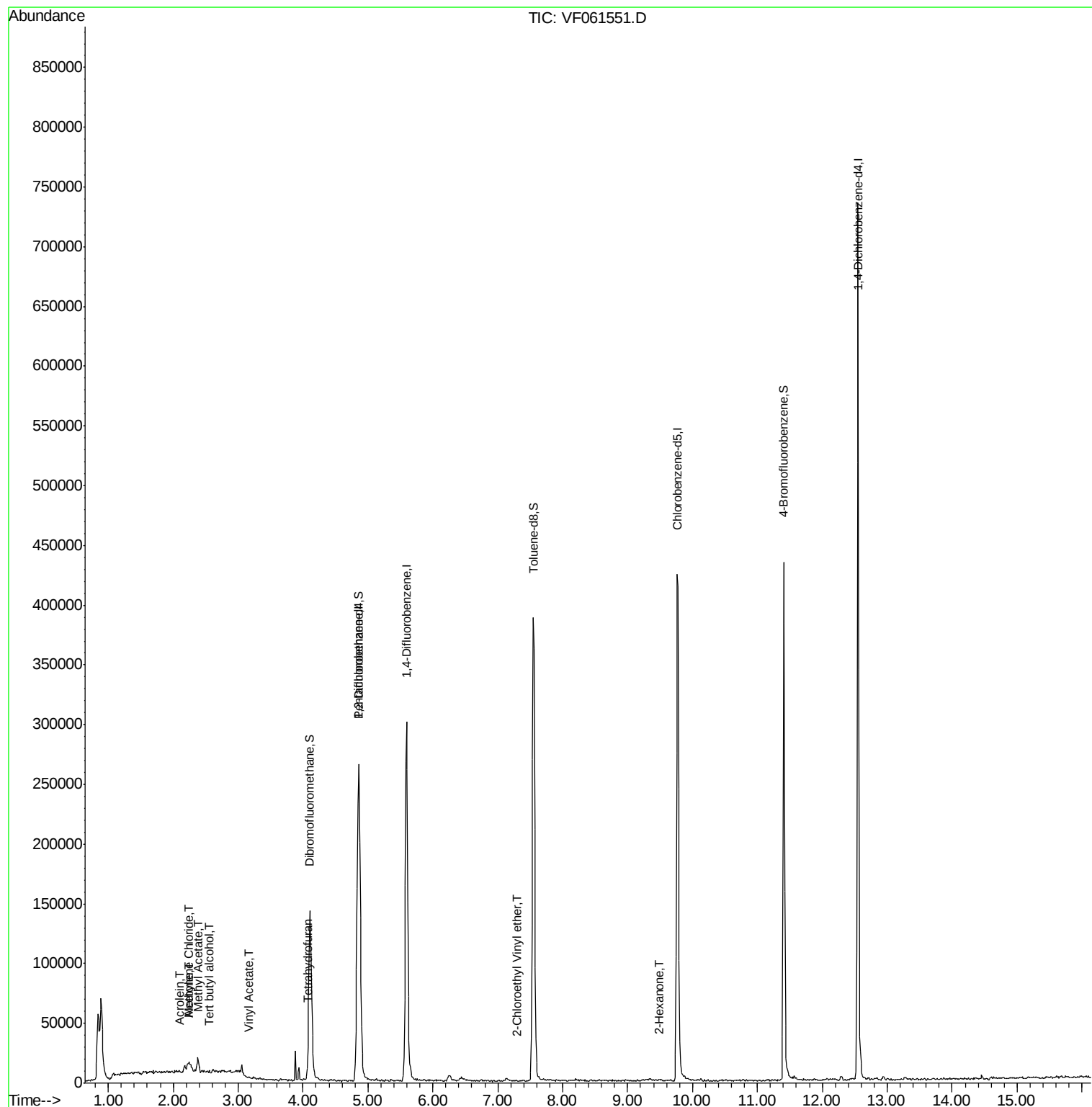
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	2.56	59	129	1.336	ug/l #	64
13) Acrolein	2.10	56	406	15.017	ug/l	97
14) Allyl chloride	2.04	41	1841	Below Cal	#	42
16) Acetone	2.25	43	3010	6.578	ug/l #	61
18) Methyl Acetate	2.38	43	5131	5.654	ug/l #	61
20) Methylene Chloride	2.25	84	4914	1.458	ug/l	88
23) Vinyl Acetate	3.17	43	399	3.347	ug/l #	78
29) Tetrahydrofuran	4.07	42	419	1.279	ug/l #	81
49) 1,4-Dioxane	6.48	88	85	Below Cal	#	1
58) 2-Chloroethyl Vinyl ether	7.30	63	144	28.173	ug/l #	47
59) 2-Hexanone	9.49	43	1335	1.348	ug/l	68

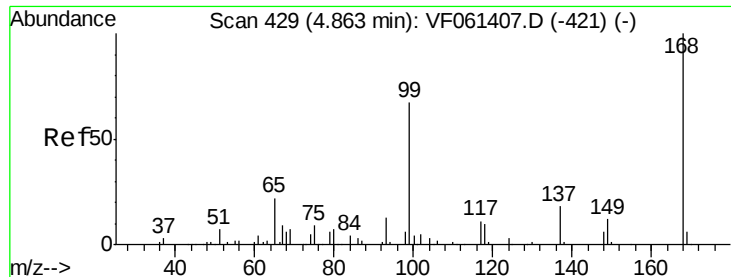
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VF061551.D

Acq: 7 Feb 2019 18:10

Instrument :

MSVOA_F

ClientSampleId :

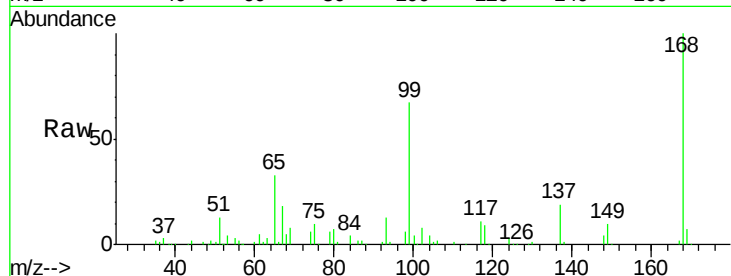
A0C12-SS1-7.5-8.0

Tot Ion:168 Resp: 184748

Ion Ratio Lower Upper

168 100

99 67.4 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

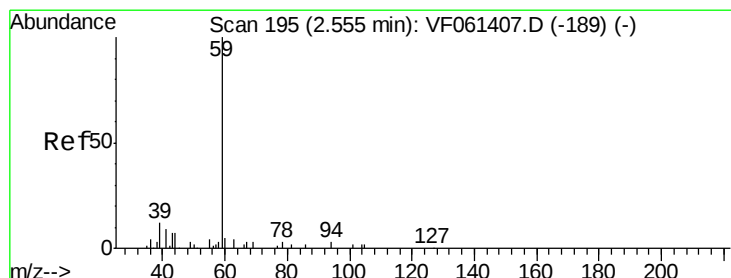
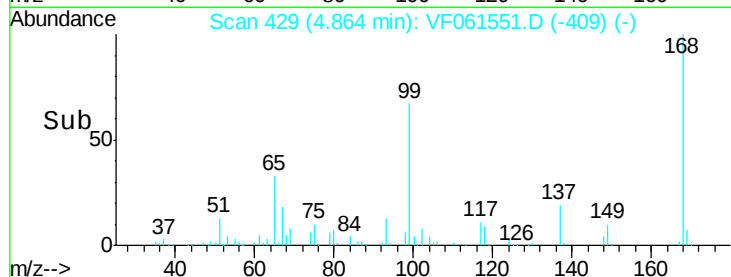
40000

20000

0

Time-->

4.70 4.80 4.90 5.00 5.10



#11

Tert butyl alcohol

Concen: 1.336 ug/l

RT: 2.56 min Scan# 195

Delta R.T. 0.00 min

Lab File: VF061551.D

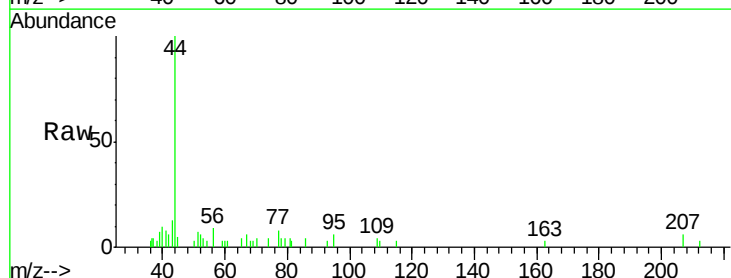
Acq: 7 Feb 2019 18:10

Tgt Ion: 59 Resp: 129

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

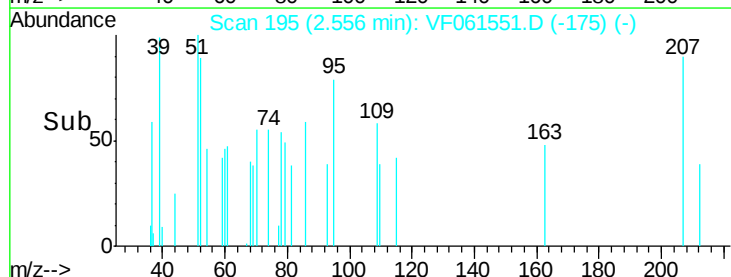
100

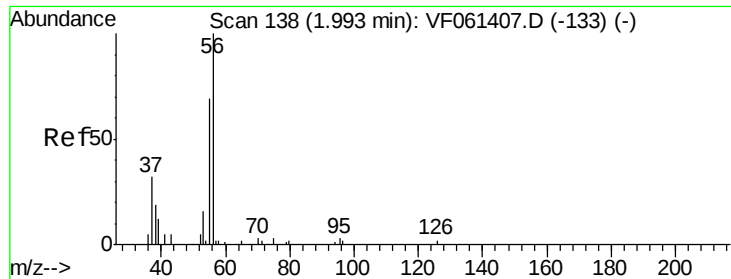
50

0

Time-->

2.52 2.54 2.56 2.58





#13

Acrolein

Concen: 15.017 ug/l

RT: 2.10 min Scan# 149

Delta R.T. 0.11 min

Lab File: VF061551.D

Acq: 7 Feb 2019 18:10

Instrument :

MSVOA_F

ClientSampleId :

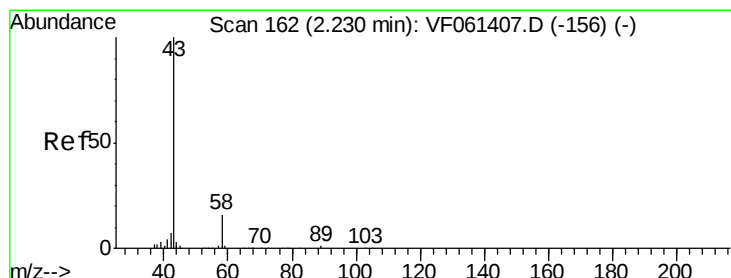
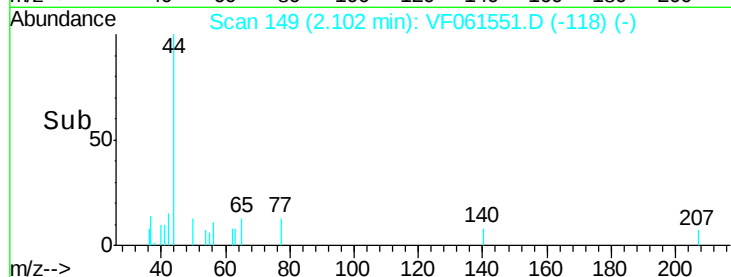
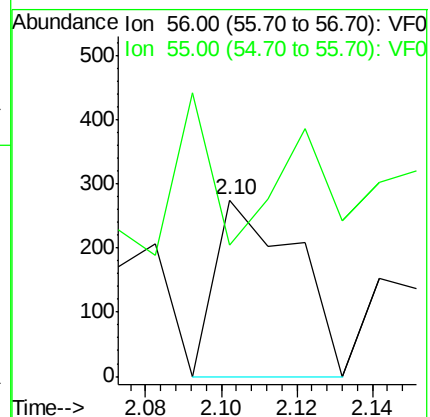
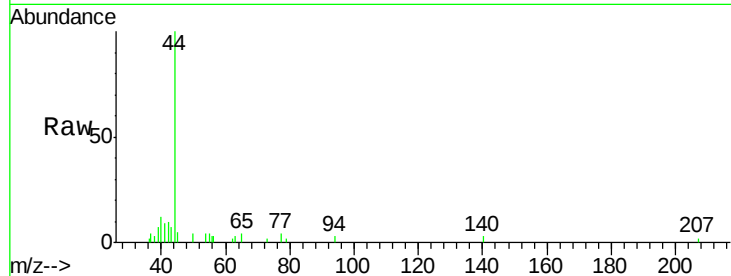
A0C12-SS1-7.5-8.0

Tot Ion: 56 Resp: 406

Ion Ratio Lower Upper

56 100

55 74.5 57.5 86.3



#16

Acetone

Concen: 6.578 ug/l

RT: 2.25 min Scan# 164

Delta R.T. 0.02 min

Lab File: VF061551.D

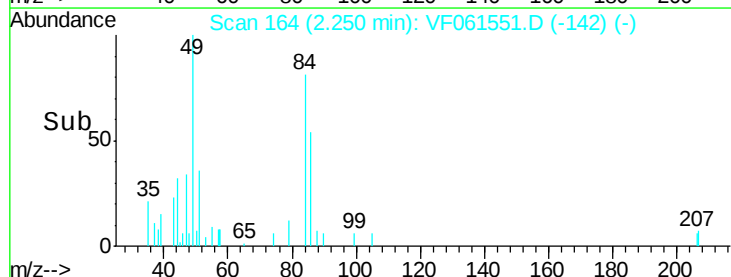
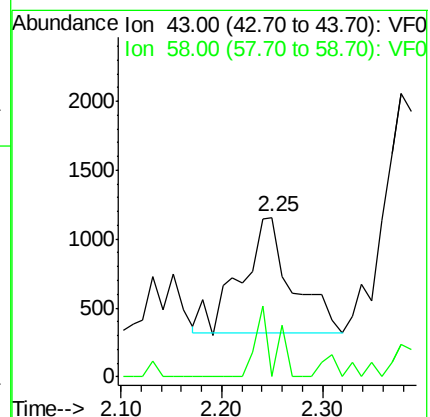
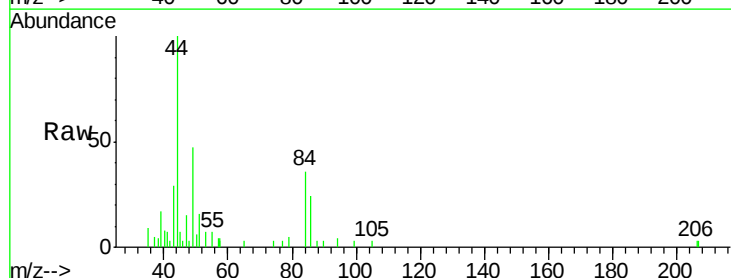
Acq: 7 Feb 2019 18:10

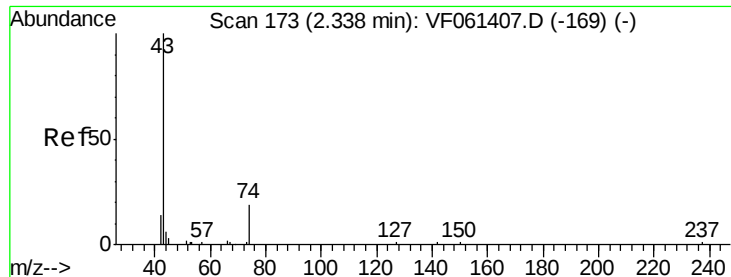
Tgt Ion: 43 Resp: 3010

Ion Ratio Lower Upper

43 100

58 0.0 13.3 19.9#

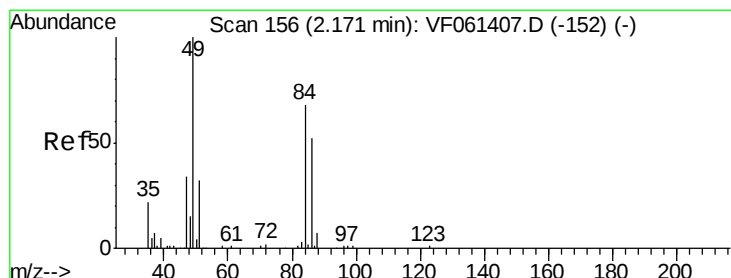
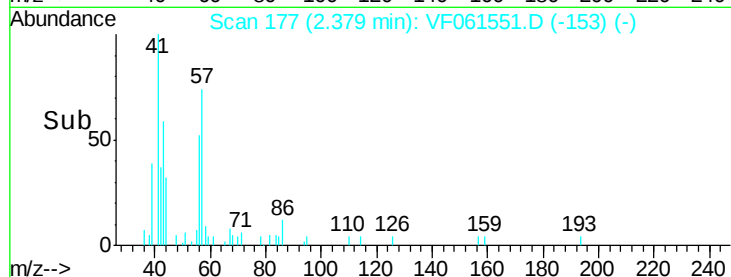
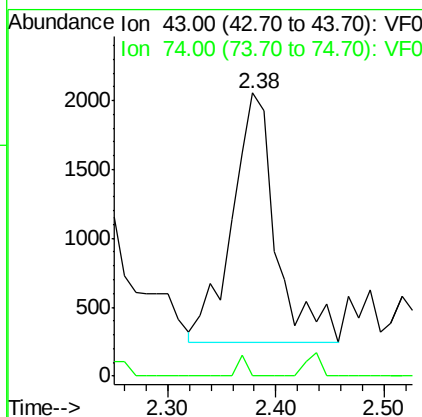
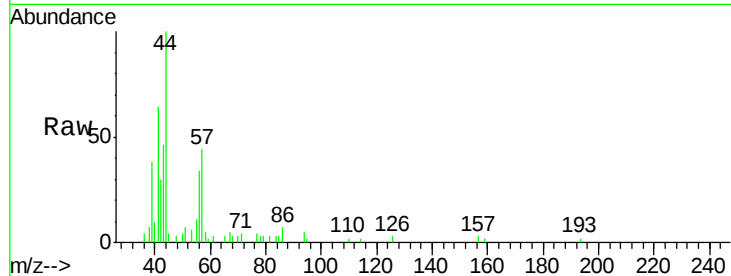




#18
Methyl Acetate
Concen: 5.654 ug/l
RT: 2.38 min Scan# 177
Delta R.T. 0.04 min
Lab File: VF061551.D
Acq: 7 Feb 2019 18:10

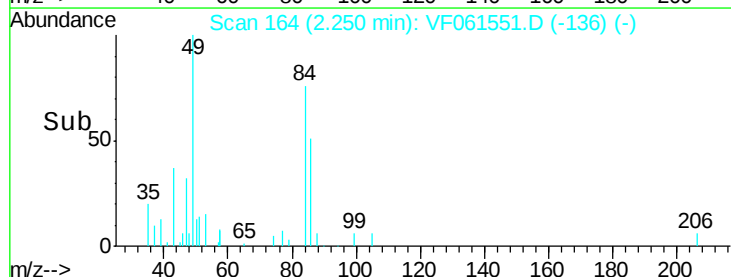
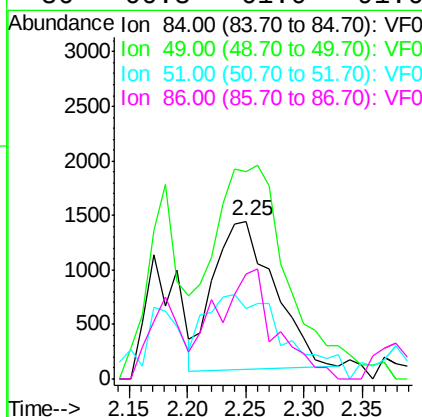
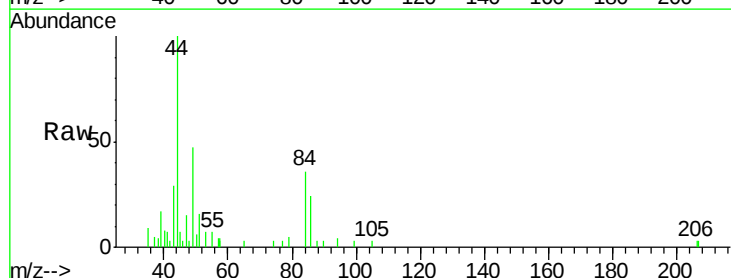
Instrument :
MSVOA_F
ClientSampleId :
A0C12-SS1-7.5-8.0

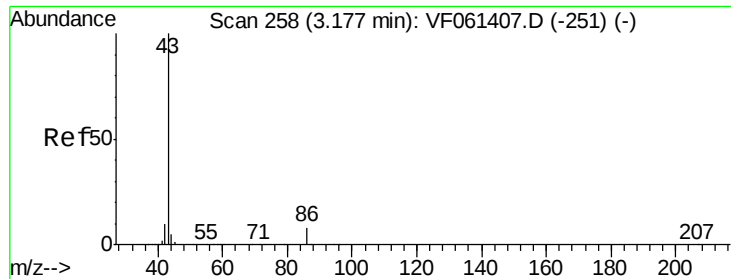
Tot Ion: 43 Resp: 5131
Ion Ratio Lower Upper
43 100
74 0.0 13.4 20.0#



#20
Methylene Chloride
Concen: 1.458 ug/l
RT: 2.25 min Scan# 164
Delta R.T. 0.08 min
Lab File: VF061551.D
Acq: 7 Feb 2019 18:10

Tgt Ion: 84 Resp: 4914
Ion Ratio Lower Upper
84 100
49 131.2 120.0 180.0
51 44.4 38.6 58.0
86 66.3 61.0 91.6





#23

Vinyl Acetate

Concen: 3.347 ug/l

RT: 3.17 min Scan# 257

Delta R.T. -0.01 min

Lab File: VF061551.D

Acq: 7 Feb 2019 18:10

Instrument :

MSVOA_F

ClientSampleId :

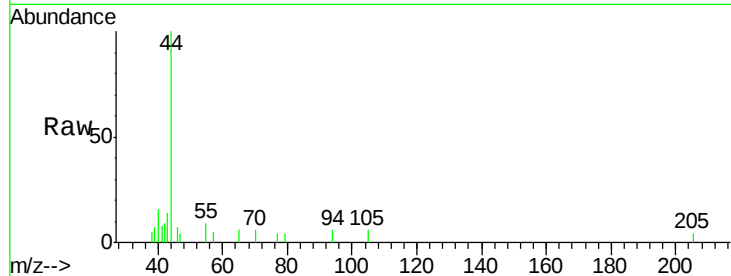
A0C12-SS1-7.5-8.0

Tot Ion: 43 Resp: 399

Ion Ratio Lower Upper

43 100

86 0.0 6.2 9.4#

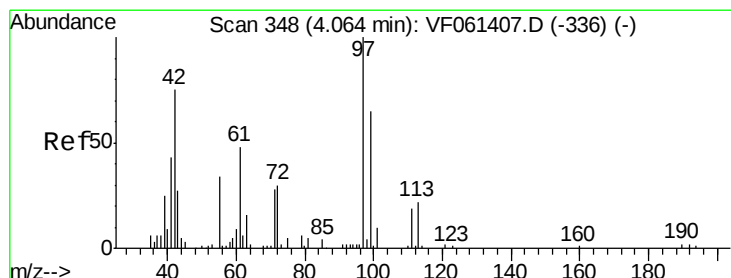
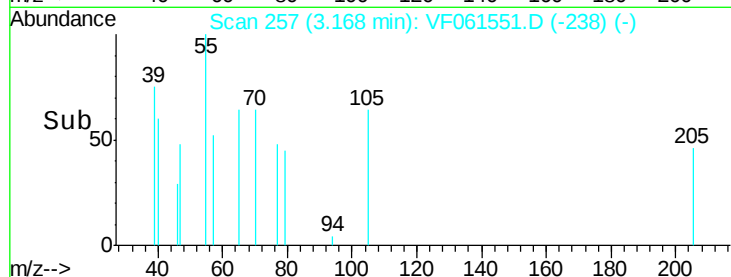
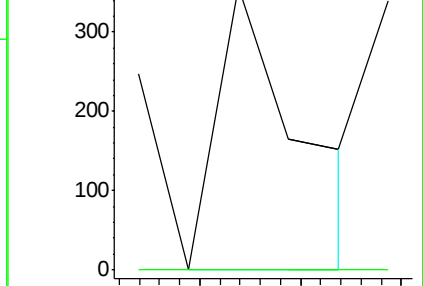


Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 86.00 (85.70 to 86.70): VF0

3.17

3.18



#29

Tetrahydrofuran

Concen: 1.279 ug/l

RT: 4.07 min Scan# 348

Delta R.T. 0.00 min

Lab File: VF061551.D

Acq: 7 Feb 2019 18:10

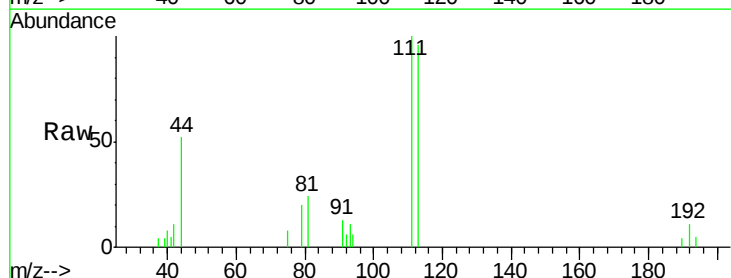
Tgt Ion: 42 Resp: 419

Ion Ratio Lower Upper

42 100

72 14.8 28.9 43.3#

71 35.3 29.6 44.4



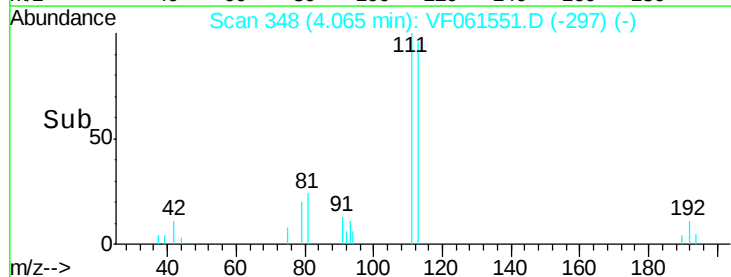
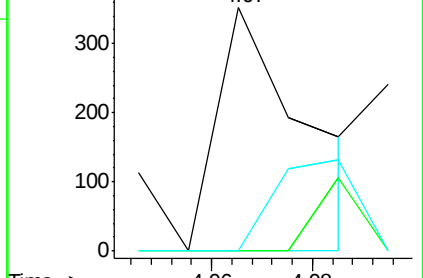
Abundance Ion 42.00 (41.70 to 42.70): VF0

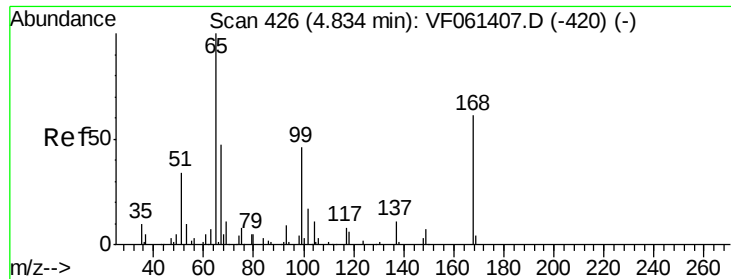
Ion 72.00 (71.70 to 72.70): VF0

Ion 71.00 (70.70 to 71.70): VF0

4.07

4.08





#33

1,2-Dichloroethane-d4

Concen: 54.418 ug/l

RT: 4.84 min Scan# 427

Delta R.T. 0.01 min

Lab File: VF061551.D

Acq: 7 Feb 2019 18:10

Instrument :

MSVOA_F

ClientSampleId :

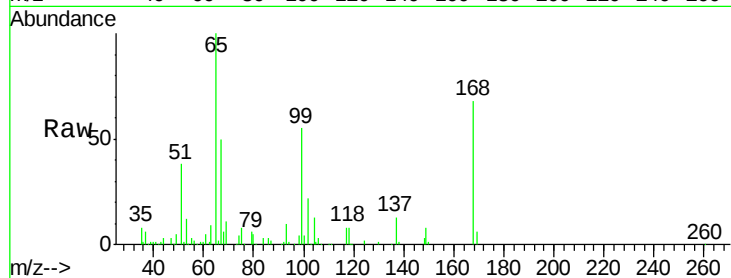
A0C12-SS1-7.5-8.0

Tot Ion: 65 Resp: 124125

Ion Ratio Lower Upper

65 100

67 50.2 0.0 99.8



Abundance Ion 65.00 (64.70 to 65.70): VF0

Ion 67.00 (66.70 to 67.70): VF0

4.84

40000

30000

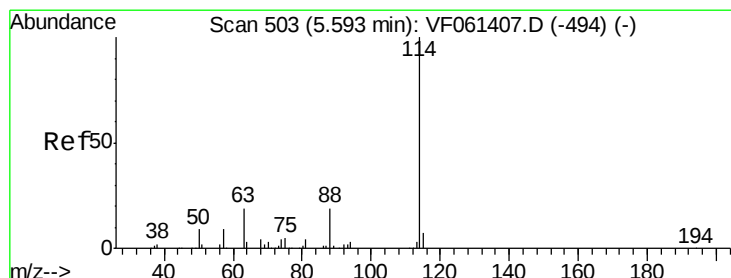
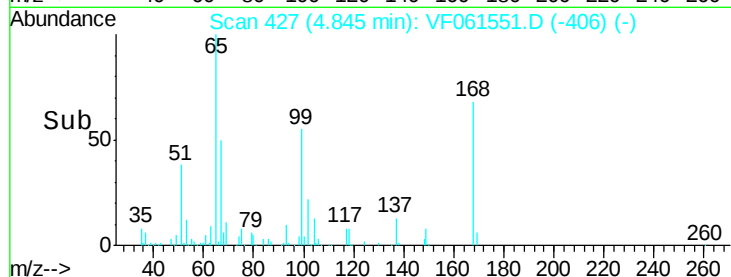
20000

10000

0

Time-->

4.70 4.80 4.90 5.00



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.59 min Scan# 503

Delta R.T. 0.00 min

Lab File: VF061551.D

Acq: 7 Feb 2019 18:10

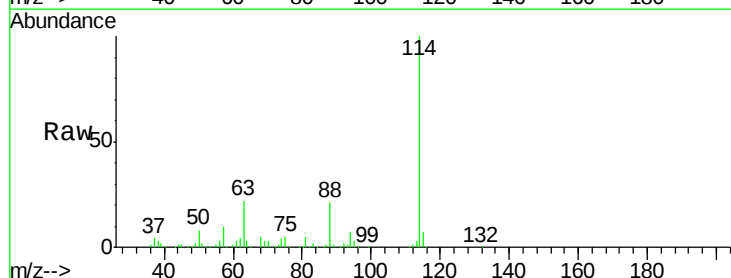
Tgt Ion: 114 Resp: 332221

Ion Ratio Lower Upper

114 100

63 22.2 0.0 39.0

88 20.7 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

150000

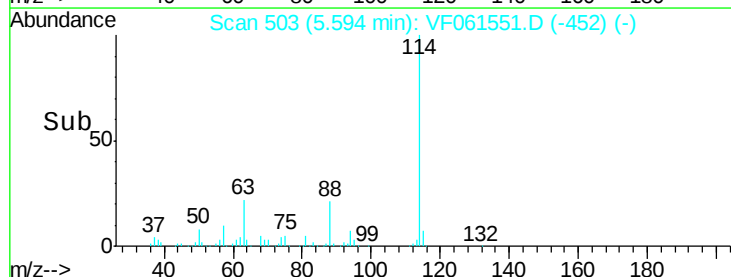
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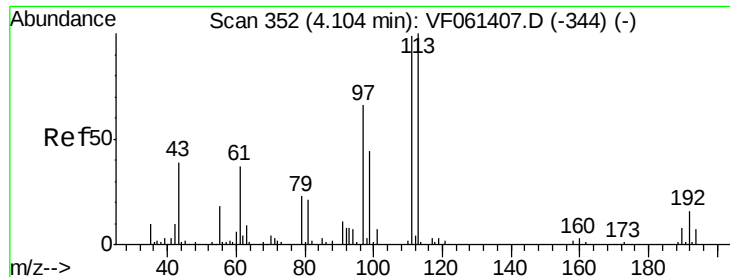
50000

0

Time-->

5.40 5.50 5.60 5.70 5.80





#35

Dibromofluoromethane

Concen: 51.766 ug/l

RT: 4.10 min Scan# 352

Delta R.T. 0.00 min

Lab File: VF061551.D

Acq: 7 Feb 2019 18:10

Instrument :
MSVOA_F
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A0C12-SS1-7.5-8.0

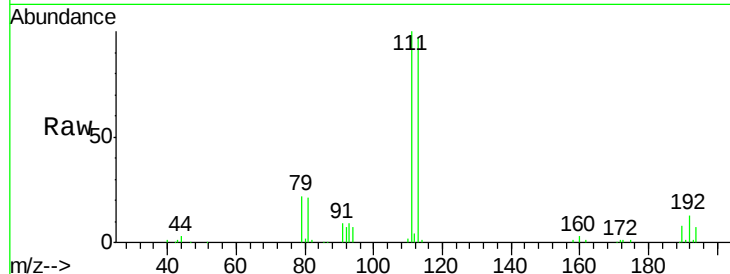
Tot Ion:113 Resp: 135705

Ion Ratio Lower Upper

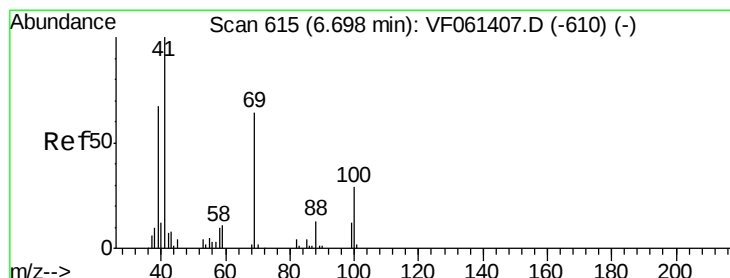
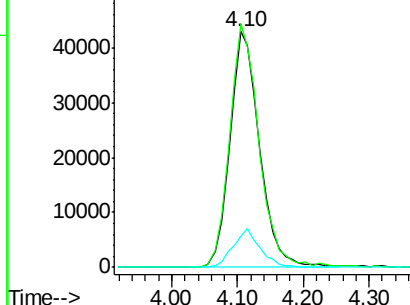
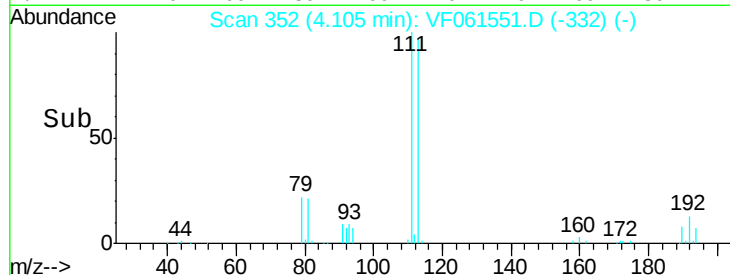
113 100

111 103.3 79.4 119.0

192 13.4 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: 6.48 min Scan# 593

Delta R.T. -0.22 min

Lab File: VF061551.D

Acq: 7 Feb 2019 18:10

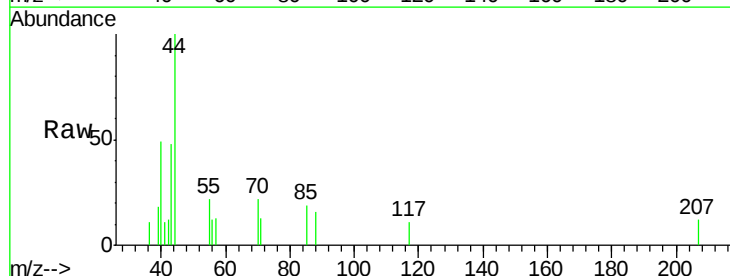
Tgt Ion: 88 Resp: 85

Ion Ratio Lower Upper

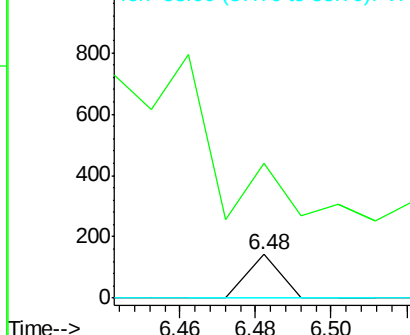
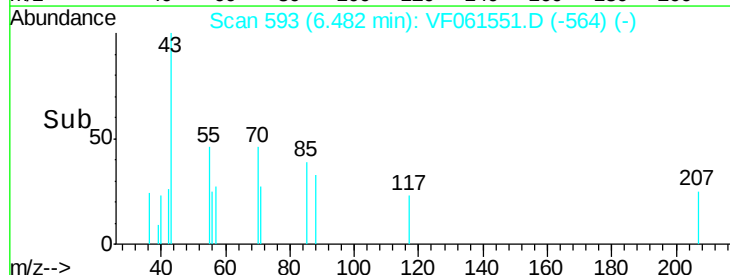
88 100

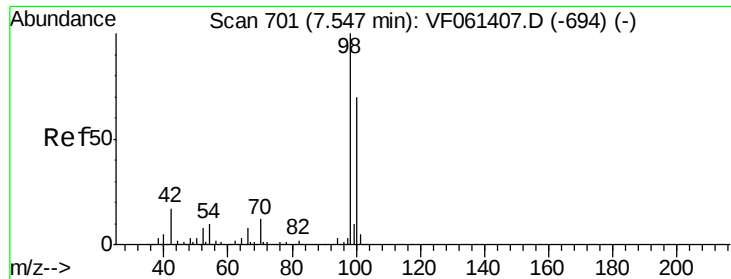
43 307.7 55.5 83.3#

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

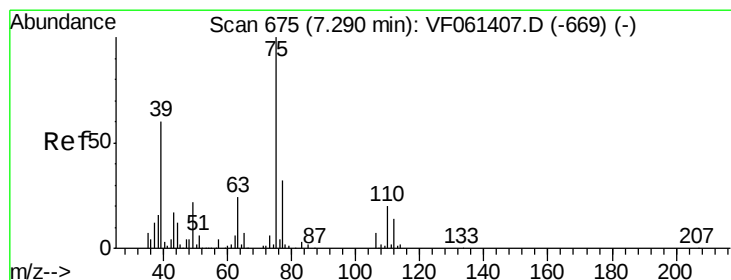
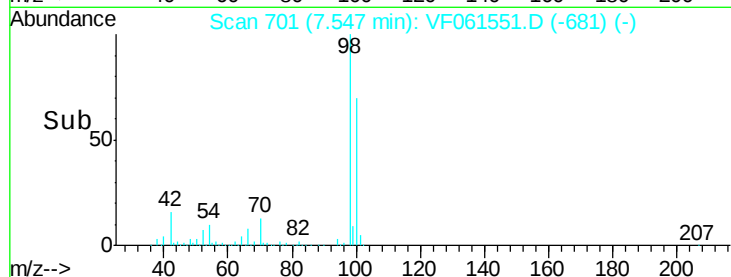
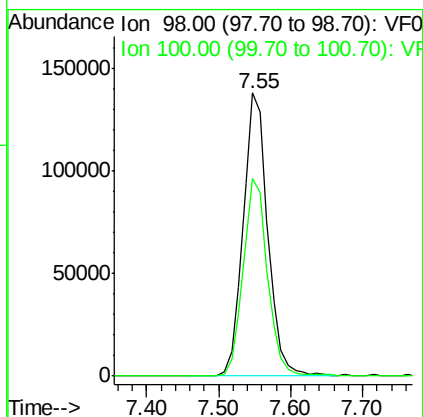
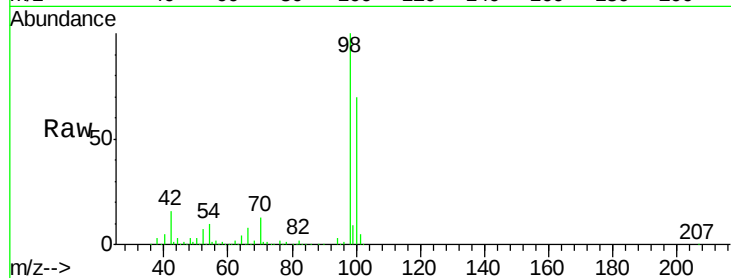




#50
Toluene-d8
Concen: 45.918 ug/l
RT: 7.55 min Scan# 701
Delta R.T. 0.00 min
Lab File: VF061551.D
Acq: 7 Feb 2019 18:10

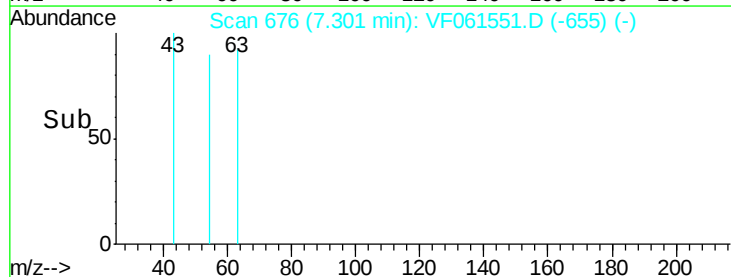
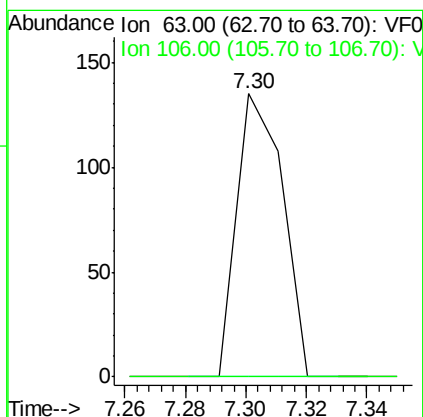
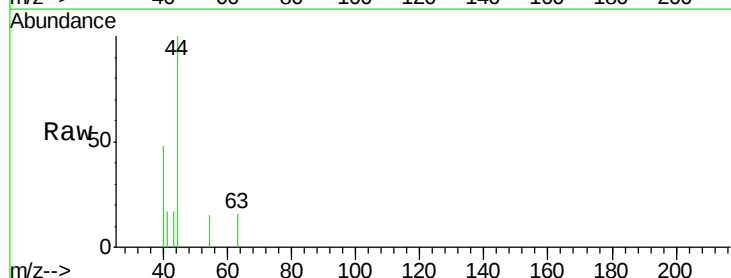
Instrument :
MSVOA_F
ClientSampleId :
A0C12-SS1-7.5-8.0

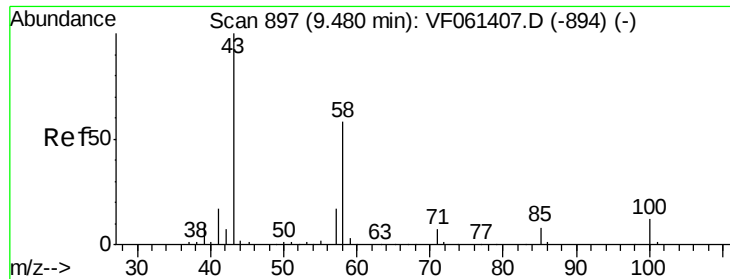
Tot Ion: 98 Resp: 329801
Ion Ratio Lower Upper
98 100
100 69.9 55.6 83.4



#58
2-Chloroethyl Vinyl ether
Concen: 28.173 ug/l
RT: 7.30 min Scan# 676
Delta R.T. 0.01 min
Lab File: VF061551.D
Acq: 7 Feb 2019 18:10

Tgt Ion: 63 Resp: 144
Ion Ratio Lower Upper
63 100
106 0.0 21.9 32.9#





#59

2-Hexanone

Concen: 1.348 ug/l

RT: 9.49 min Scan# 898

Delta R.T. 0.01 min

Lab File: VF061551.D

Acq: 7 Feb 2019 18:10

Instrument :

MSVOA_F

ClientSampleId :

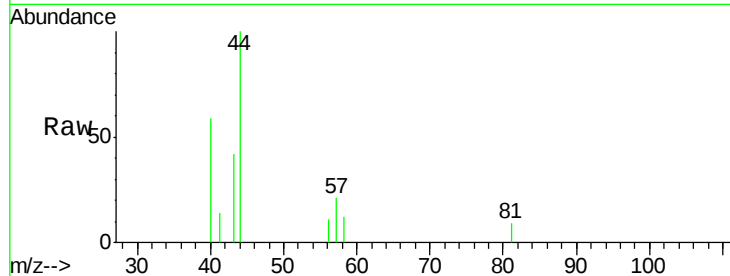
A0C12-SS1-7.5-8.0

Tot Ion: 43 Resp: 1335

Ion Ratio Lower Upper

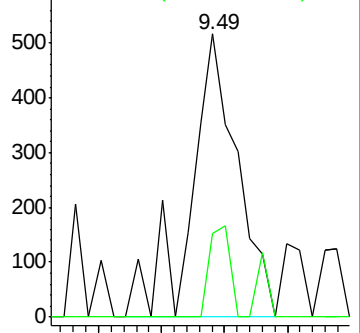
43 100

58 29.6 25.9 77.6

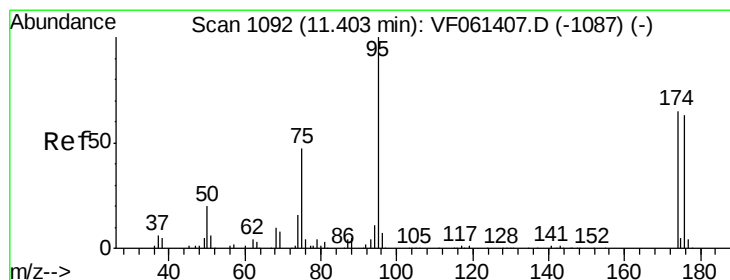
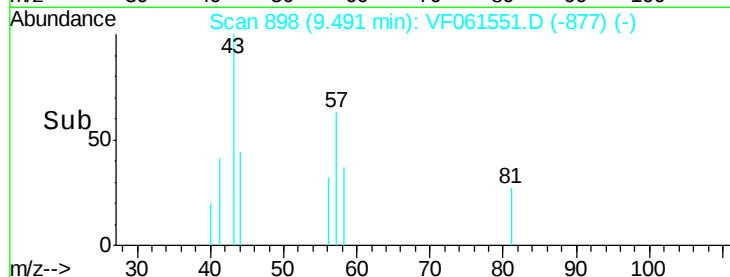


Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



Time-->



#62

4-Bromofluorobenzene

Concen: 50.484 ug/l

RT: 11.40 min Scan# 1092

Delta R.T. 0.00 min

Lab File: VF061551.D

Acq: 7 Feb 2019 18:10

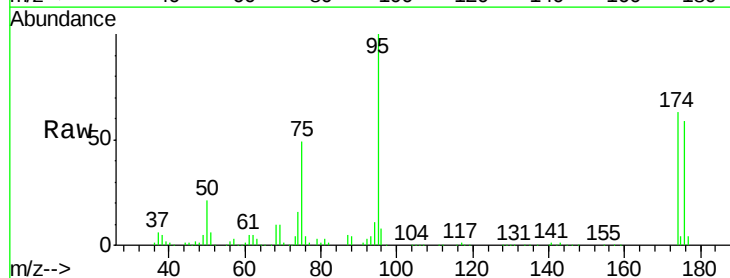
Tgt Ion: 95 Resp: 169417

Ion Ratio Lower Upper

95 100

174 62.5 0.0 130.4

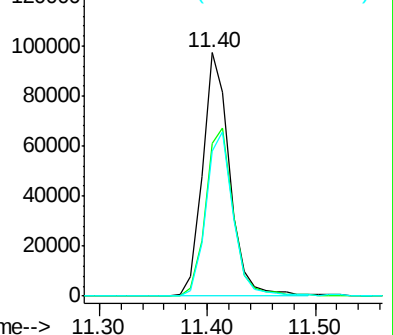
176 59.4 0.0 126.2



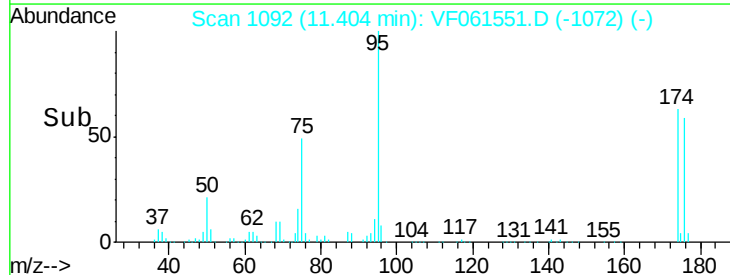
Abundance Ion 95.00 (94.70 to 95.70): VF0

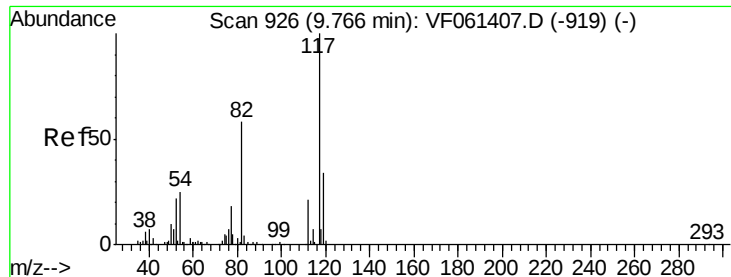
Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V



Time-->

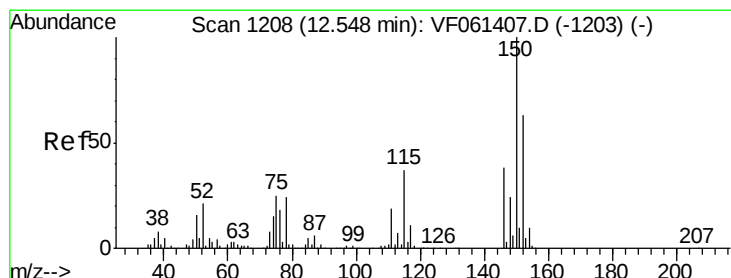
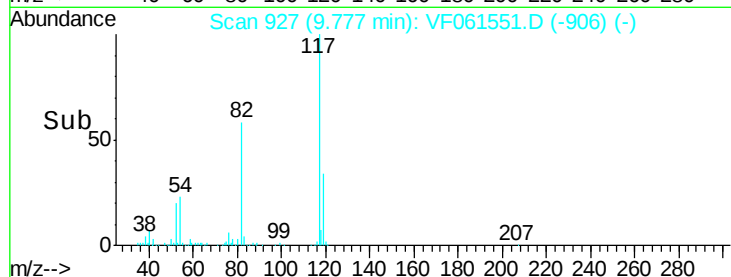
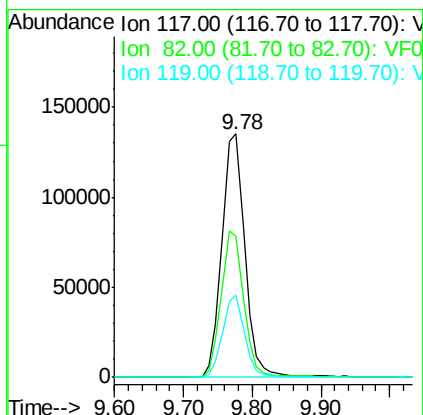
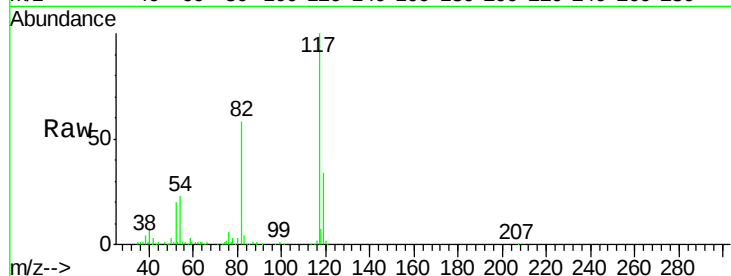




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.78 min Scan# 927
Delta R.T. 0.01 min
Lab File: VF061551.D
Acq: 7 Feb 2019 18:10

Instrument :
MSVOA_F
ClientSampleId :
A0C12-SS1-7.5-8.0

Tot Ion	117	Resp	316268
Ion Ratio	Lower	Upper	
117	100		
82	57.8	46.4	69.6
119	33.7	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: VF061551.D
Acq: 7 Feb 2019 18:10

Tgt Ion	152	Resp	178212
Ion Ratio	Lower	Upper	
152	100		
115	58.4	30.0	90.0
150	153.2	0.0	321.4

