

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF020719\
 Data File : VF061556.D
 Acq On : 7 Feb 2019 20:35
 Operator : VA/AP
 Sample : K1404-07
 Misc : 6.14g/5mL/MSVOA-F/SOIL
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 A0C12-SS3-9.0-9.5

Quant Time: Feb 09 04:37:58 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	189361	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.60	114	342454	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.77	117	297452	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.55	152	156978	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	4.85	65	119867	51.27	ug/l	0.02
Spiked Amount	50.000		Recovery	=	102.54%	
35) Dibromofluoromethane	4.11	113	128032	47.38	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.76%	
50) Toluene-d8	7.55	98	296690	40.07	ug/l	0.00
Spiked Amount	50.000		Recovery	=	80.14%	
62) 4-Bromofluorobenzene	11.41	95	154209	44.58	ug/l	0.00
Spiked Amount	50.000		Recovery	=	89.16%	

Target Compounds

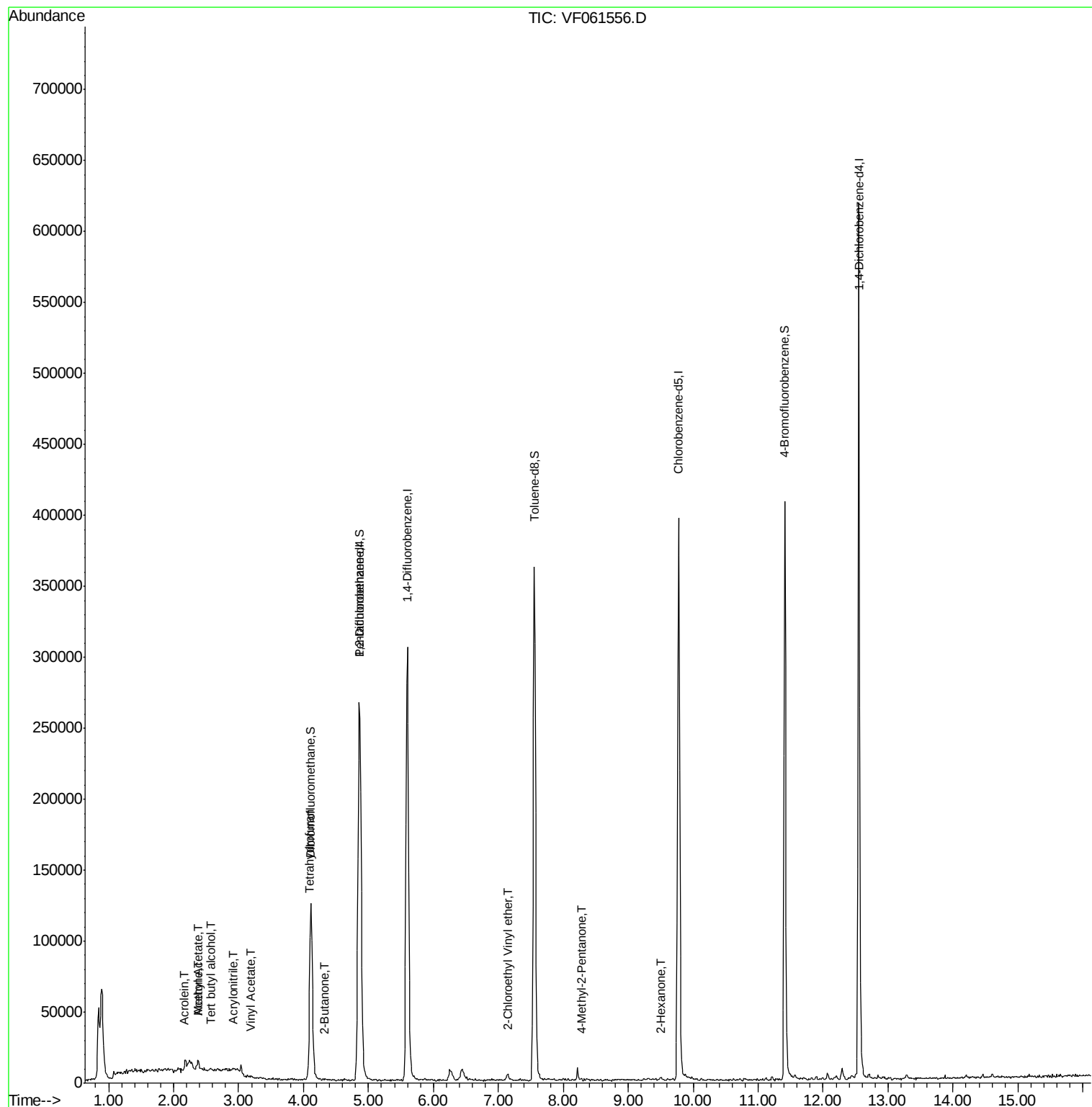
						Qvalue
11) Tert butyl alcohol	2.58	59	143	1.445	ug/l #	1
13) Acrolein	2.15	56	282	13.509	ug/l	85
14) Allyl chloride	2.10	41	591	Below Cal	#	55
15) Acrylonitrile	2.93	53	815	3.215	ug/l #	31
16) Acetone	2.37	43	1390	2.964	ug/l	94
18) Methyl Acetate	2.37	43	3017	3.244	ug/l #	61
23) Vinyl Acetate	3.19	43	382	3.337	ug/l #	78
25) 2-Butanone	4.34	43	1317	1.689	ug/l #	57
29) Tetrahydrofuran	4.09	42	1058	3.150	ug/l #	38
49) 1,4-Dioxane	6.36	88	79	Below Cal	#	17
51) 4-Methyl-2-Pentanone	8.28	43	1470	1.004	ug/l #	81
58) 2-Chloroethyl Vinyl ether	7.14	63	63	27.796	ug/l #	47
59) 2-Hexanone	9.50	43	1931	1.891	ug/l	72

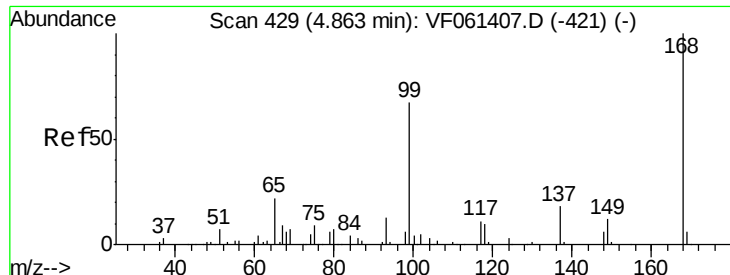
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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. 0.01 min

Lab File: VF061556.D

Acq: 7 Feb 2019 20:35

Instrument :

MSVOA_F

ClientSampleId :

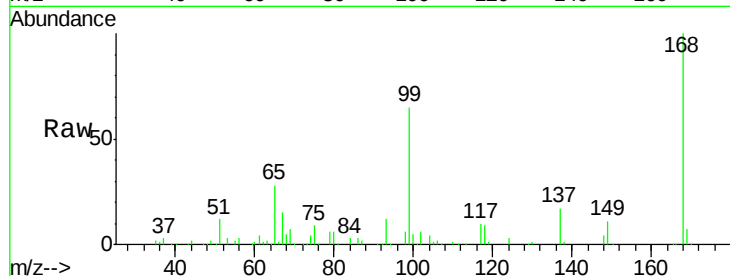
A0C12-SS3-9.0-9.5

Tot Ion:168 Resp: 189361

Ion Ratio Lower Upper

168 100

99 64.5 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

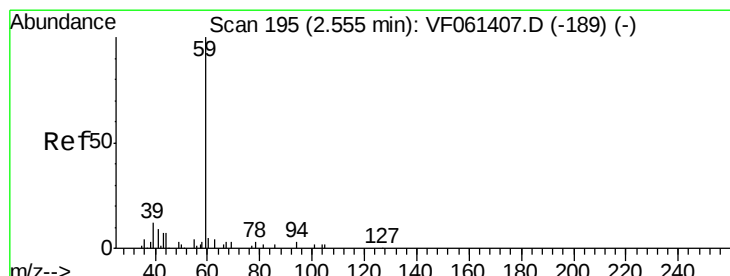
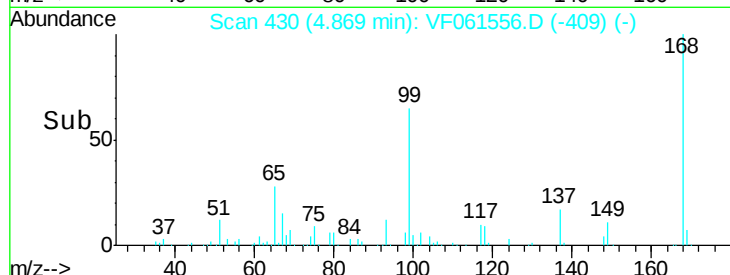
40000

20000

0

Time-->

4.70 4.80 4.90 5.00 5.10



#11

Tert butyl alcohol

Concen: 1.445 ug/l

RT: 2.58 min Scan# 198

Delta R.T. 0.03 min

Lab File: VF061556.D

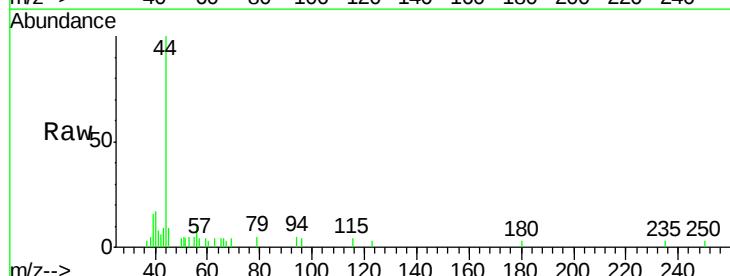
Acq: 7 Feb 2019 20:35

Tgt Ion: 59 Resp: 143

Ion Ratio Lower Upper

59 100

57 120.9 11.9 17.9#



Abundance Ion 59.00 (58.70 to 59.70): VF0

Ion 57.00 (56.70 to 57.70): VF0

250

200

150

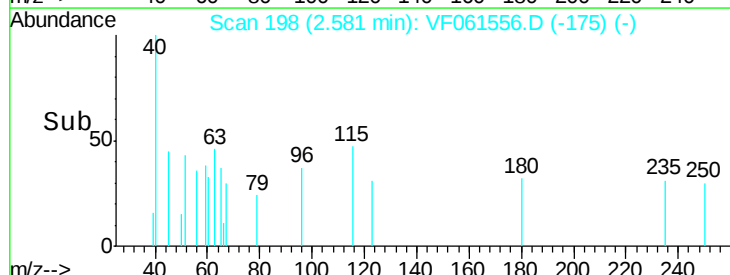
100

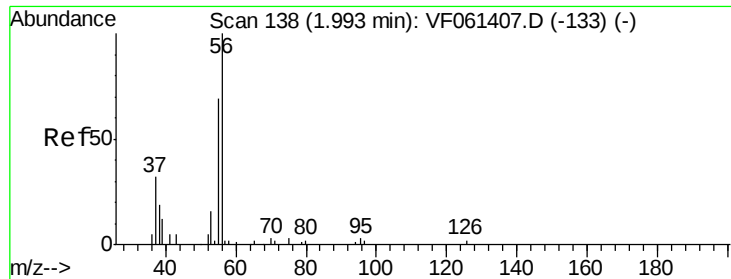
50

0

Time-->

2.54 2.56 2.58 2.60





#13

Acrolein

Concen: 13.509 ug/l

RT: 2.15 min Scan# 154

Delta R.T. 0.15 min

Lab File: VF061556.D

Acq: 7 Feb 2019 20:35

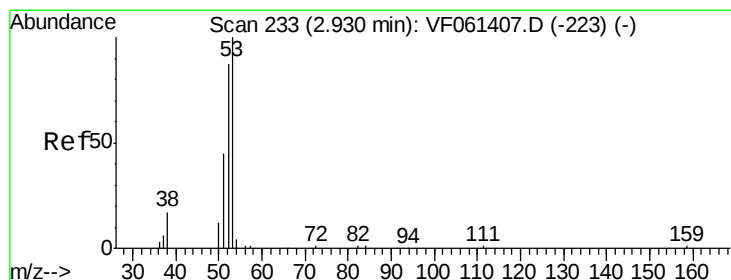
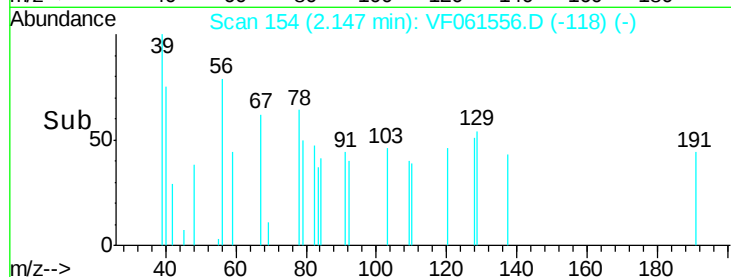
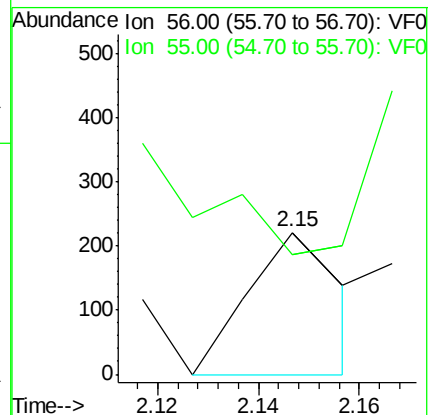
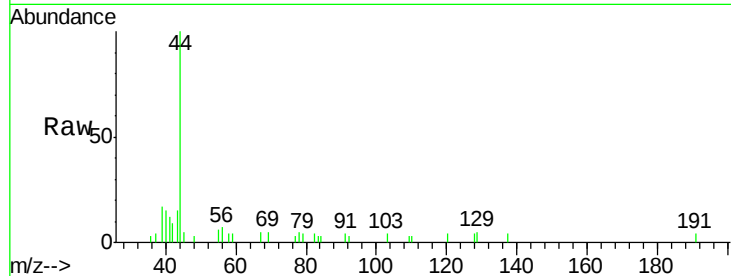
Instrument :
MSVOA_F
ClientSampleId :
A0C12-SS3-9.0-9.5

Tot Ion: 56 Resp: 282

Ion Ratio Lower Upper

56 100

55 84.2 57.5 86.3



#15

Acrylonitrile

Concen: 3.215 ug/l

RT: 2.93 min Scan# 233

Delta R.T. -0.00 min

Lab File: VF061556.D

Acq: 7 Feb 2019 20:35

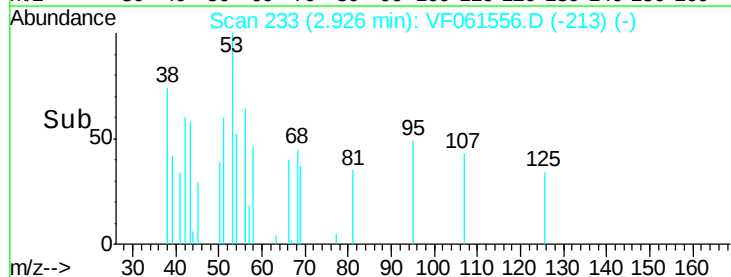
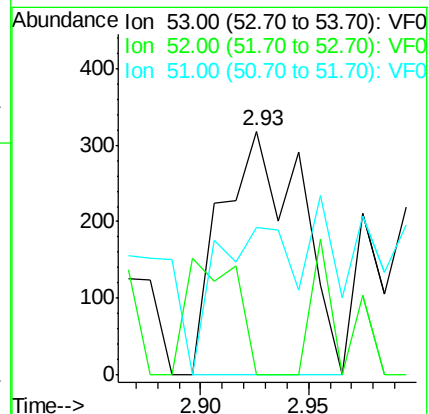
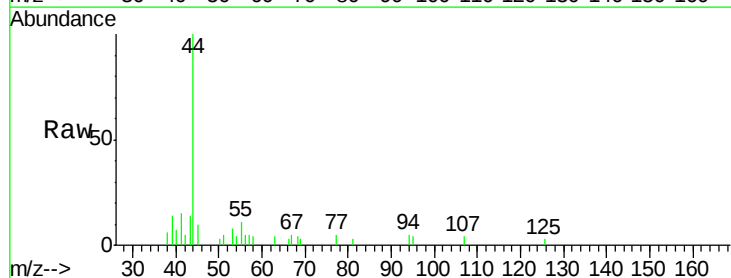
Tgt Ion: 53 Resp: 815

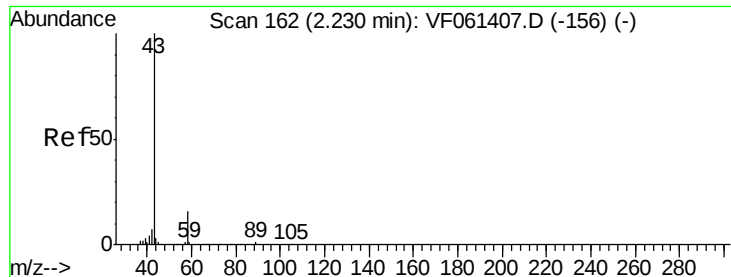
Ion Ratio Lower Upper

53 100

52 0.0 69.6 104.4#

51 60.4 36.8 55.2#





#16

Acetone

Concen: 2.964 ug/l

RT: 2.37 min Scan# 177

Delta R.T. 0.14 min

Lab File: VF061556.D

Acq: 7 Feb 2019 20:35

Instrument :

MSVOA_F

ClientSampleId :

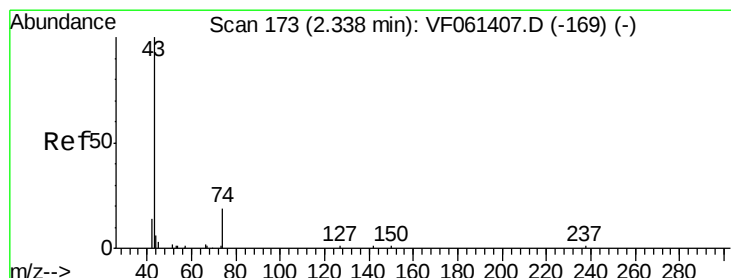
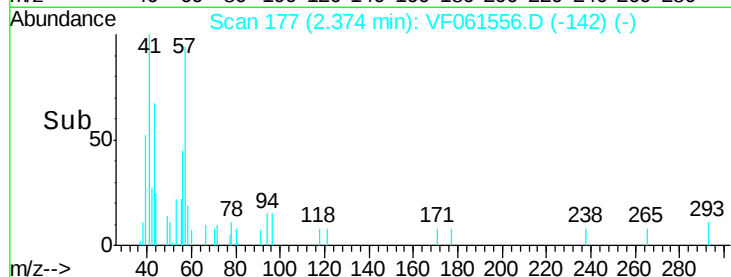
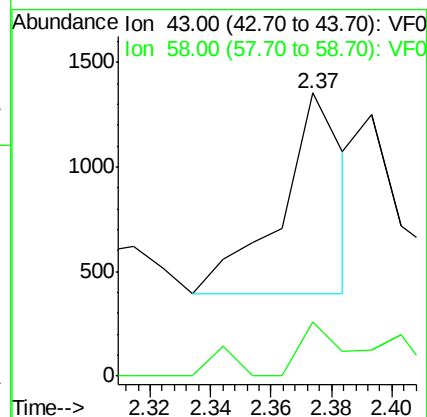
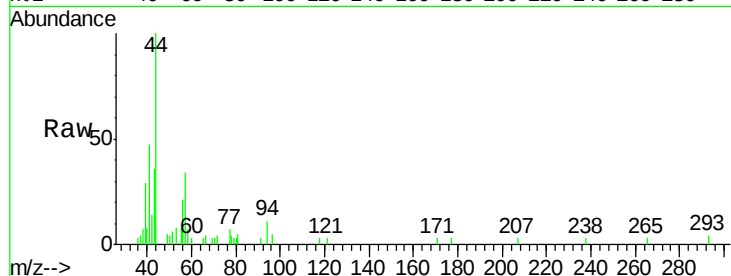
A0C12-SS3-9.0-9.5

Tot Ion: 43 Resp: 1390

Ion Ratio Lower Upper

43 100

58 19.2 13.3 19.9



#18

Methyl Acetate

Concen: 3.244 ug/l

RT: 2.37 min Scan# 177

Delta R.T. 0.04 min

Lab File: VF061556.D

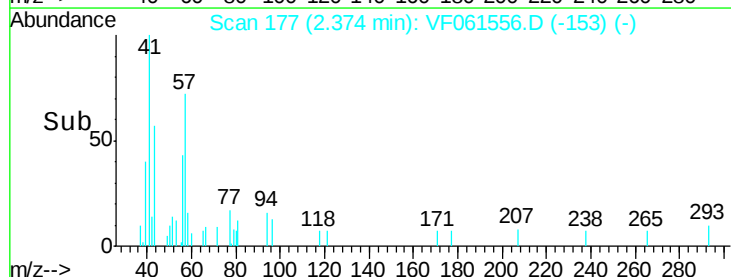
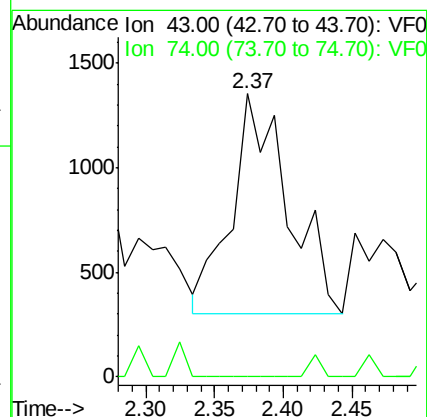
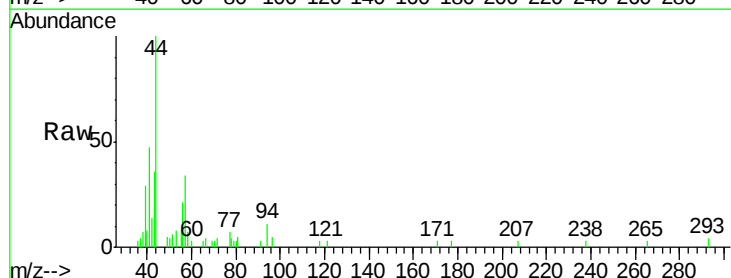
Acq: 7 Feb 2019 20:35

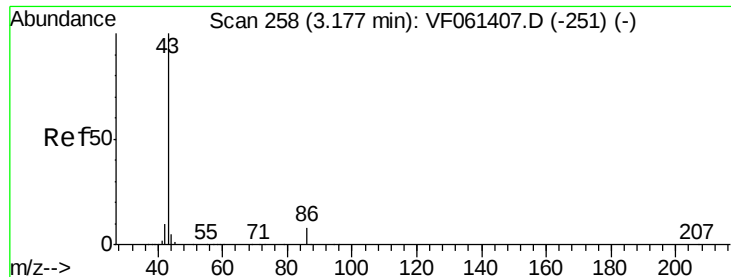
Tgt Ion: 43 Resp: 3017

Ion Ratio Lower Upper

43 100

74 0.0 13.4 20.0#





#23

Vinyl Acetate

Concen: 3.337 ug/l

RT: 3.19 min Scan# 260

Delta R.T. 0.02 min

Lab File: VF061556.D

Acq: 7 Feb 2019 20:35

Instrument :

MSVOA_F

ClientSampleId :

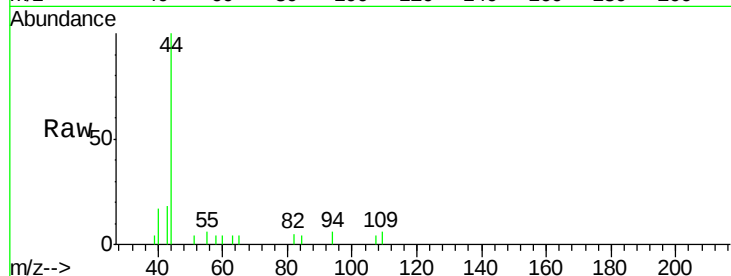
A0C12-SS3-9.0-9.5

Tot Ion: 43 Resp: 382

Ion Ratio Lower Upper

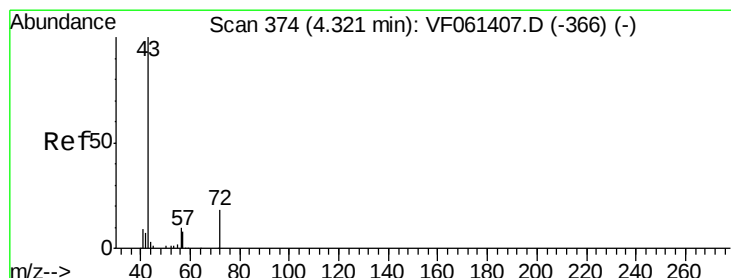
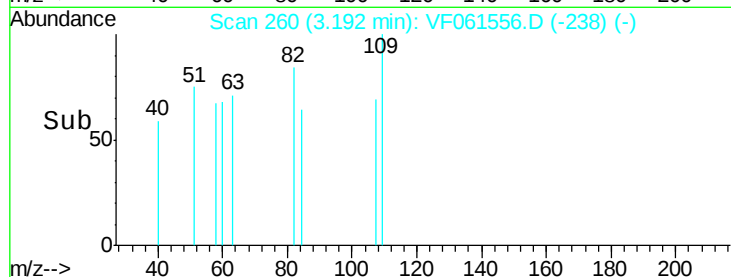
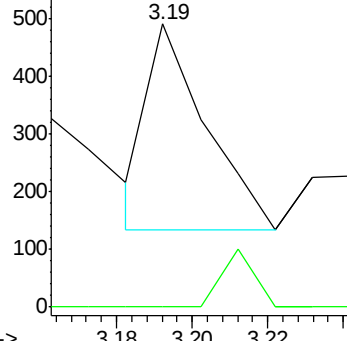
43 100

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: 1.689 ug/l

RT: 4.34 min Scan# 376

Delta R.T. 0.02 min

Lab File: VF061556.D

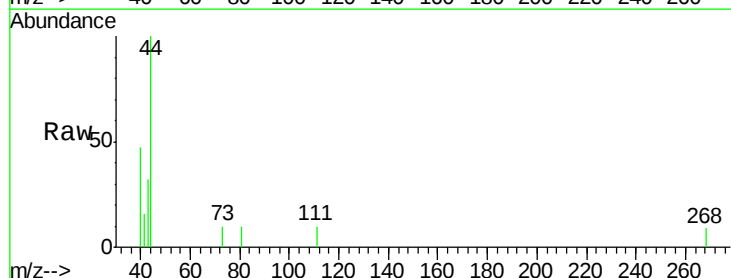
Acq: 7 Feb 2019 20:35

Tgt Ion: 43 Resp: 1317

Ion Ratio Lower Upper

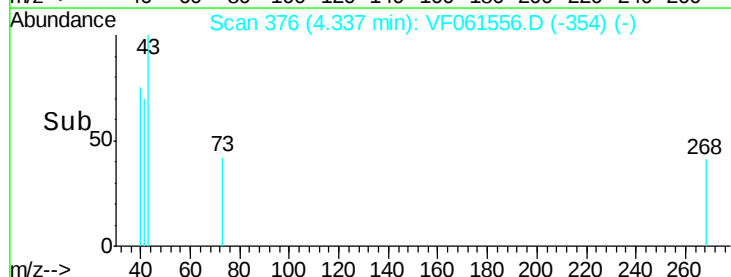
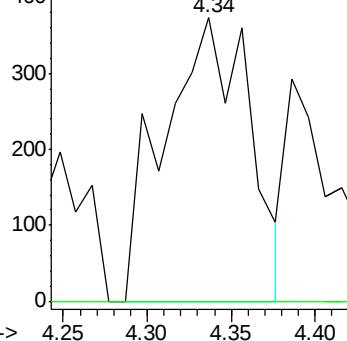
43 100

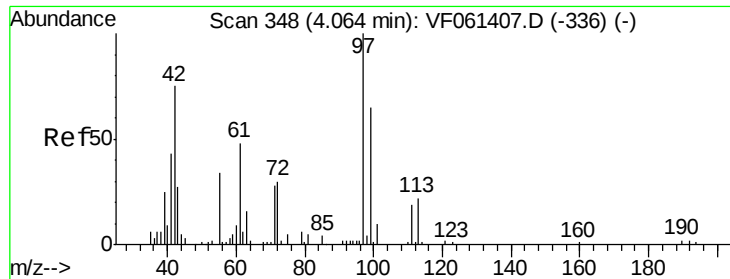
72 0.0 15.8 23.6#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 72.00 (71.70 to 72.70): VF0





#29

Tetrahydrofuran

Concen: 3.150 ug/l

RT: 4.09 min Scan# 351

Delta R.T. 0.03 min

Lab File: VF061556.D

Acq: 7 Feb 2019 20:35

Instrument :

MSVOA_F

ClientSampleId :

A0C12-SS3-9.0-9.5

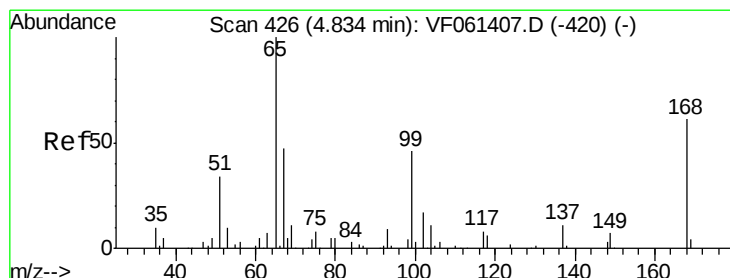
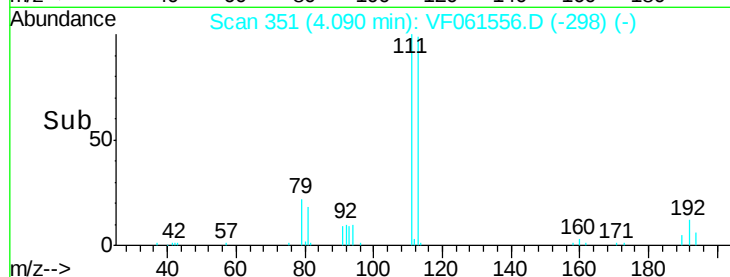
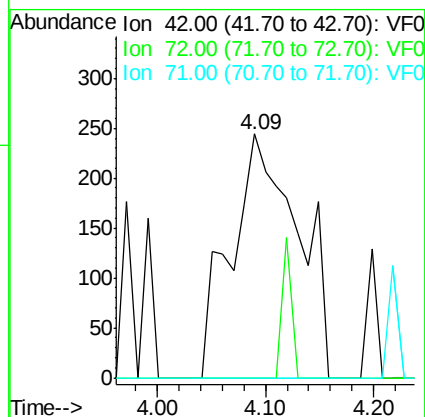
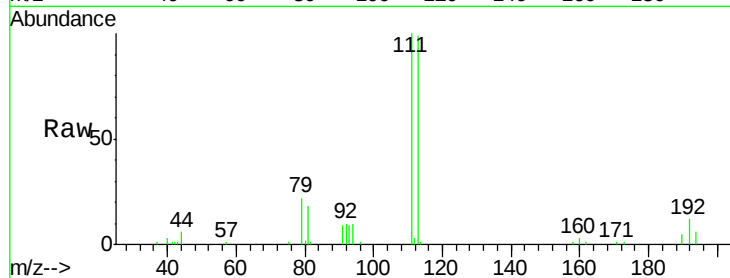
Tot Ion: 42 Resp: 1058

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: 51.271 ug/l

RT: 4.85 min Scan# 428

Delta R.T. 0.02 min

Lab File: VF061556.D

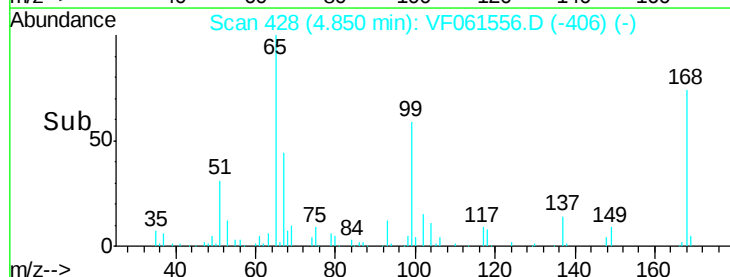
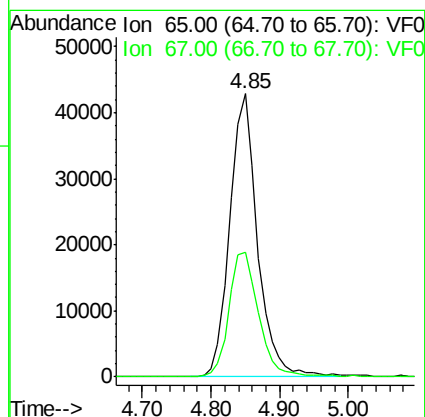
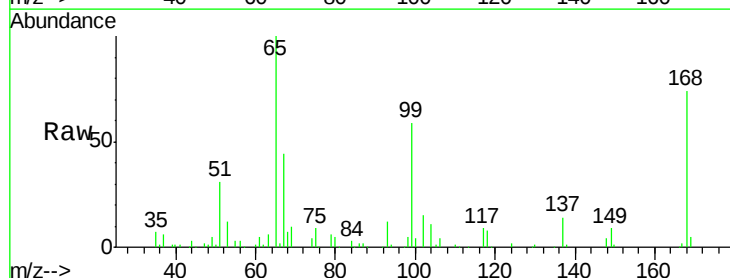
Acq: 7 Feb 2019 20:35

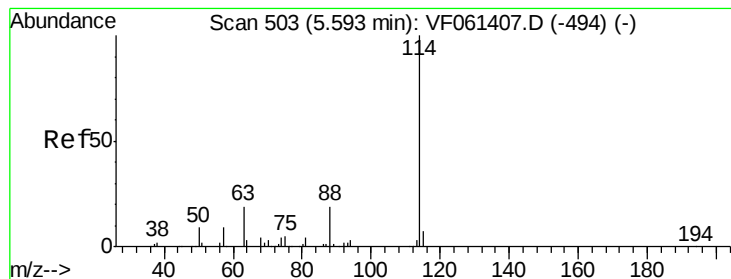
Tgt Ion: 65 Resp: 119867

Ion Ratio Lower Upper

65 100

67 44.1 0.0 99.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.60 min Scan# 504

Delta R.T. 0.01 min

Lab File: VF061556.D

Acq: 7 Feb 2019 20:35

Instrument :

MSVOA_F

ClientSampleId :

A0C12-SS3-9.0-9.5

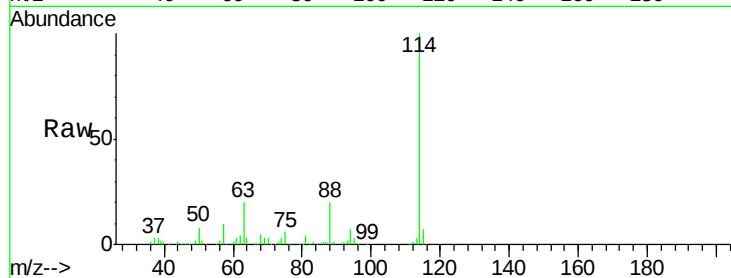
Tot Ion:114 Resp: 342454

Ion Ratio Lower Upper

114 100

63 20.2 0.0 39.0

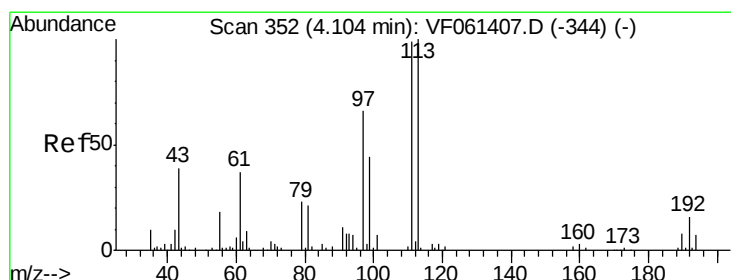
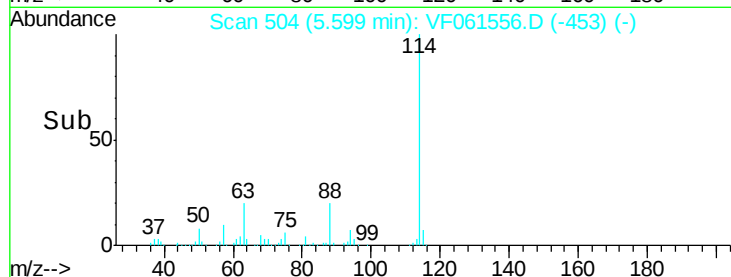
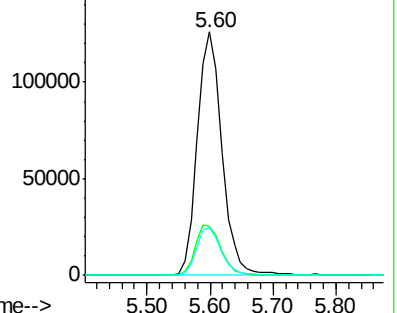
88 19.6 0.0 37.4



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: 47.380 ug/l

RT: 4.11 min Scan# 353

Delta R.T. 0.01 min

Lab File: VF061556.D

Acq: 7 Feb 2019 20:35

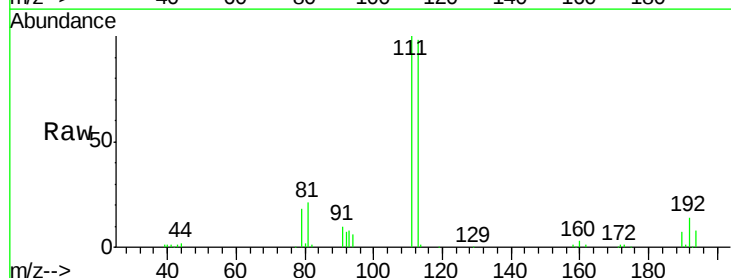
Tgt Ion:113 Resp: 128032

Ion Ratio Lower Upper

113 100

111 102.2 79.4 119.0

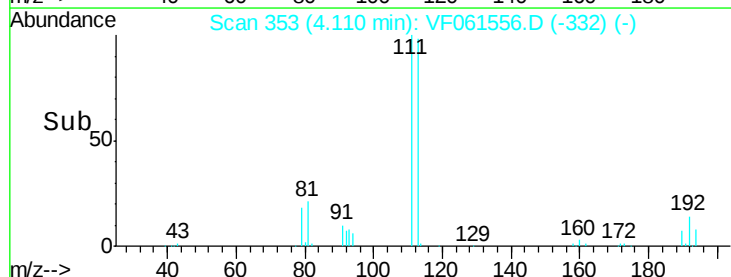
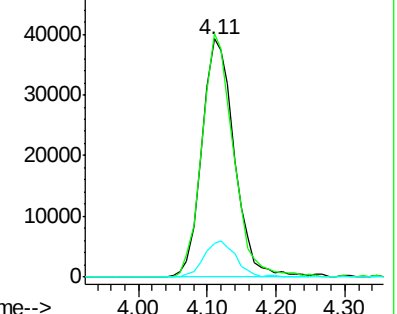
192 14.7 12.4 18.6

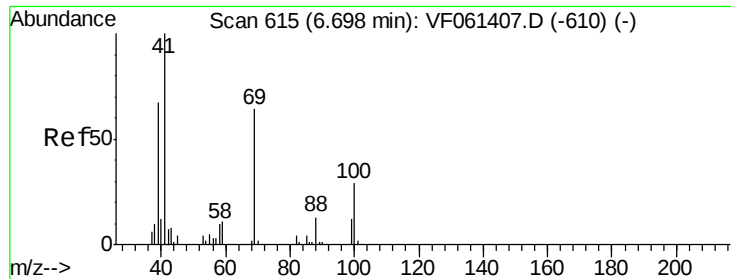


Abundance Ion 113.00 (112.70 to 113.70): V

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: 6.36 min Scan# 581

Delta R.T. -0.34 min

Lab File: VF061556.D

Acq: 7 Feb 2019 20:35

Instrument :

MSVOA_F

ClientSampleId :

A0C12-SS3-9.0-9.5

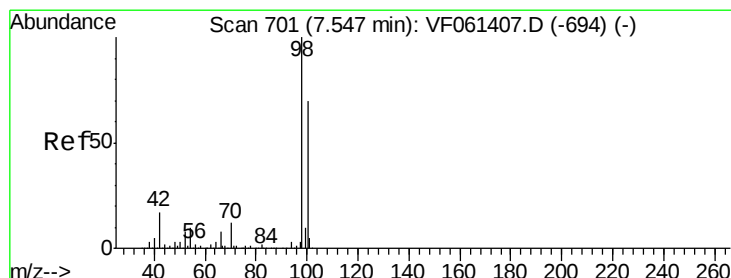
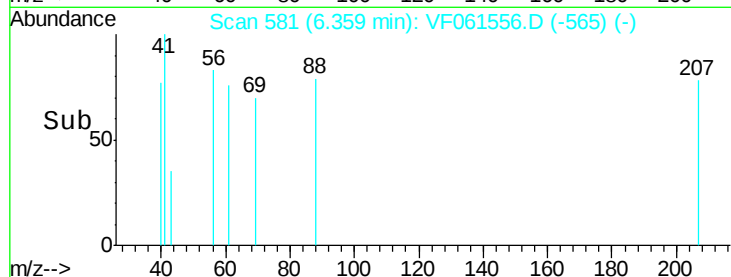
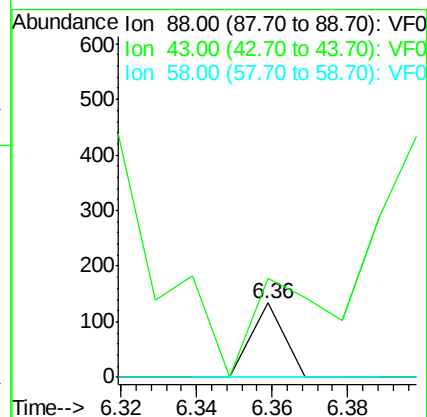
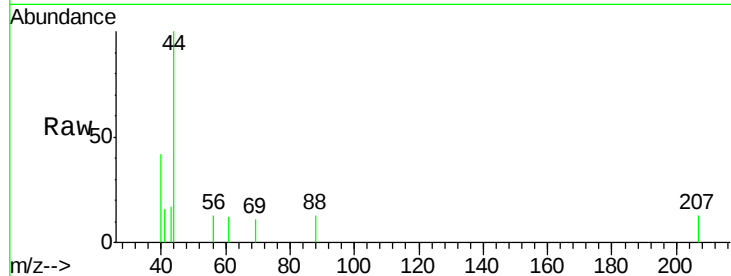
Tot Ion: 88 Resp: 79

Ion Ratio Lower Upper

88 100

43 132.1 55.5 83.3#

58 0.0 59.9 89.9#



#50

Toluene-d8

Concen: 40.073 ug/l

RT: 7.55 min Scan# 702

Delta R.T. 0.01 min

Lab File: VF061556.D

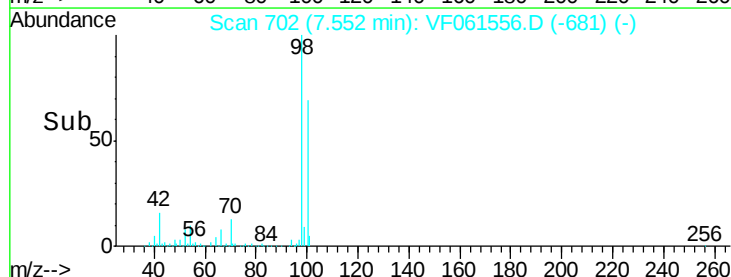
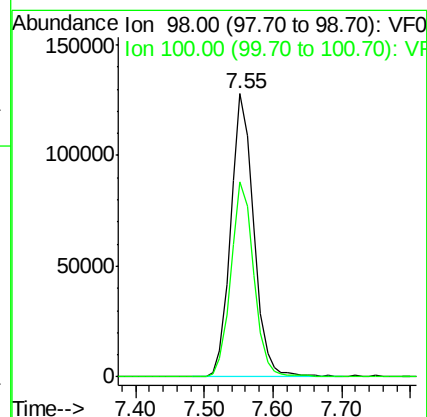
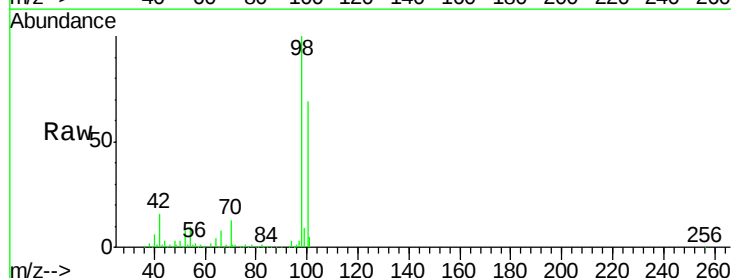
Acq: 7 Feb 2019 20:35

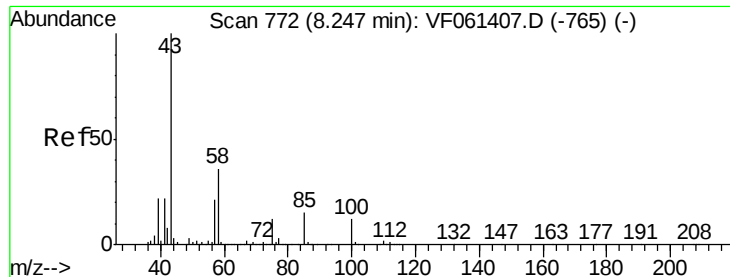
Tgt Ion: 98 Resp: 296690

Ion Ratio Lower Upper

98 100

100 68.8 55.6 83.4





#51

4-Methyl-2-Pentanone

Concen: 1.004 ug/l

RT: 8.28 min Scan# 776

Delta R.T. 0.04 min

Lab File: VF061556.D

Acq: 7 Feb 2019 20:35

Instrument :

MSVOA_F

ClientSampleId :

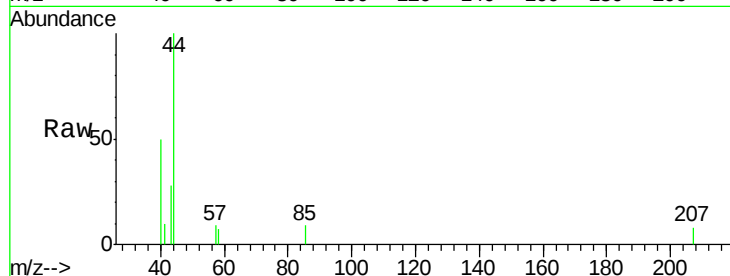
A0C12-SS3-9.0-9.5

Tot Ion: 43 Resp: 1470

Ion Ratio Lower Upper

43 100

58 24.8 28.8 43.2#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

8.28

400

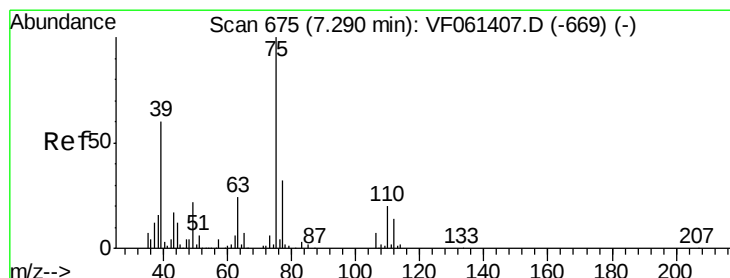
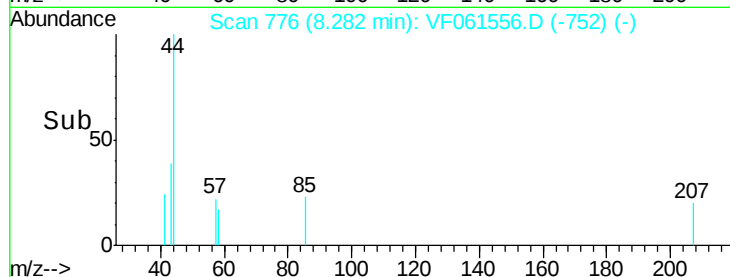
300

200

100

0

Time--> 8.15 8.20 8.25 8.30 8.35



#58

2-Chloroethyl Vinyl ether

Concen: 27.796 ug/l

RT: 7.14 min Scan# 660

Delta R.T. -0.15 min

Lab File: VF061556.D

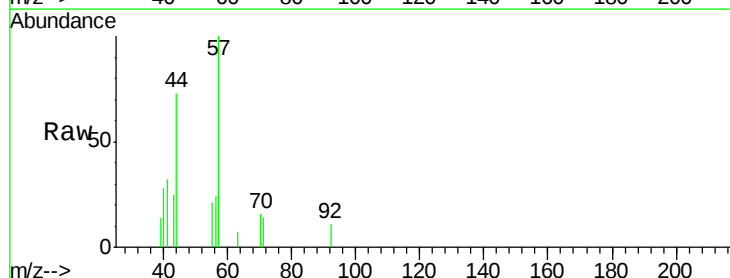
Acq: 7 Feb 2019 20:35

Tgt Ion: 63 Resp: 63

Ion Ratio Lower Upper

63 100

106 0.0 21.9 32.9#



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 106.00 (105.70 to 106.70): V

7.14

120

100

80

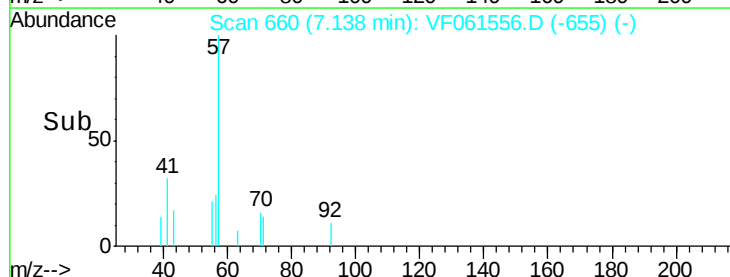
60

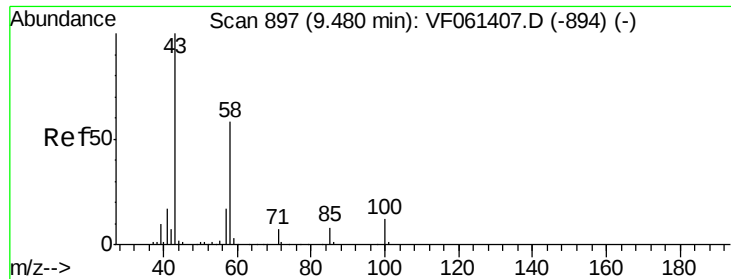
40

20

0

Time--> 7.12 7.14 7.16





#59

2-Hexanone

Concen: 1.891 ug/l

RT: 9.50 min Scan# 899

Delta R.T. 0.02 min

Lab File: VF061556.D

Acq: 7 Feb 2019 20:35

Instrument :

MSVOA_F

ClientSampleId :

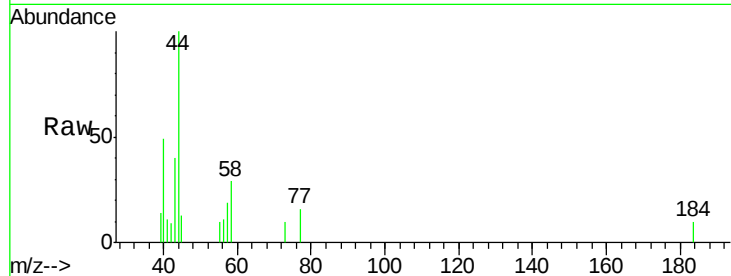
A0C12-SS3-9.0-9.5

Tot Ion: 43 Resp: 1931

Ion Ratio Lower Upper

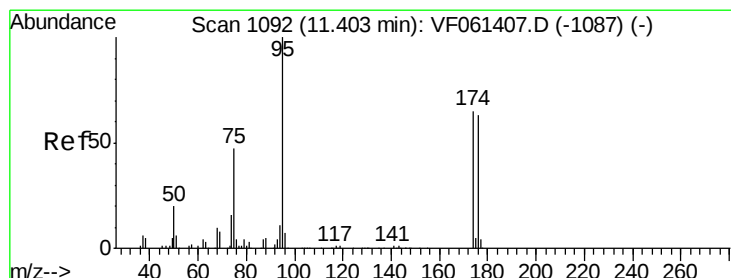
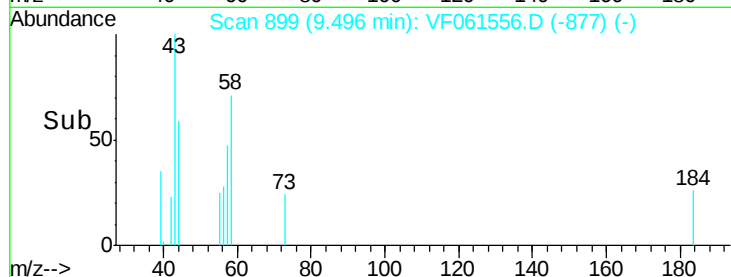
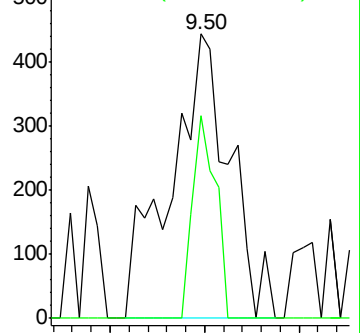
43 100

58 71.1 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: 44.579 ug/l

RT: 11.41 min Scan# 1093

Delta R.T. 0.01 min

Lab File: VF061556.D

Acq: 7 Feb 2019 20:35

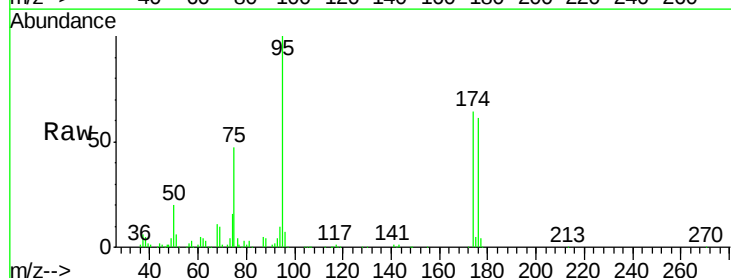
Tgt Ion: 95 Resp: 154209

Ion Ratio Lower Upper

95 100

174 64.5 0.0 130.4

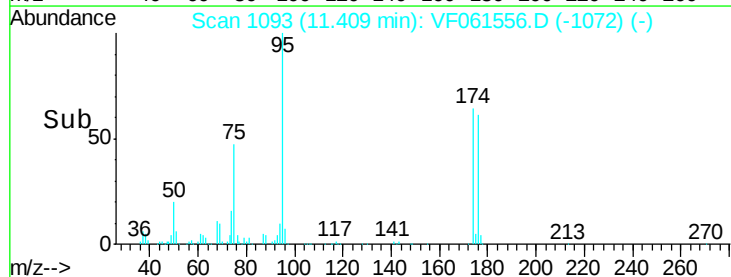
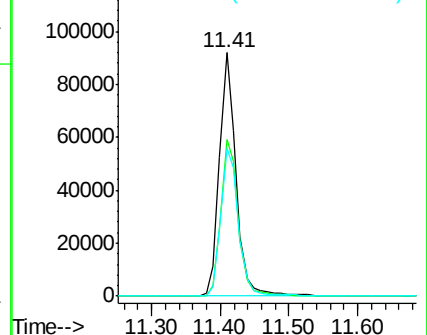
176 60.7 0.0 126.2

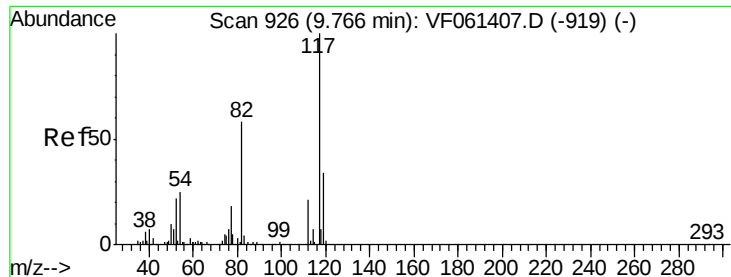


Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V

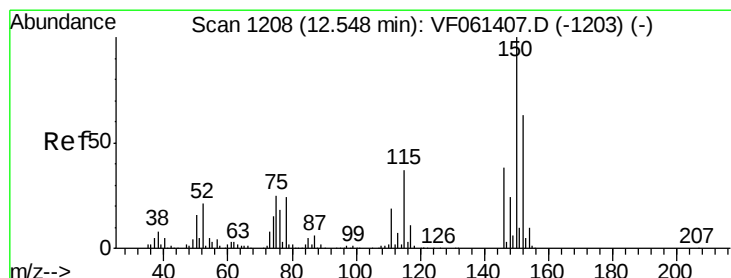
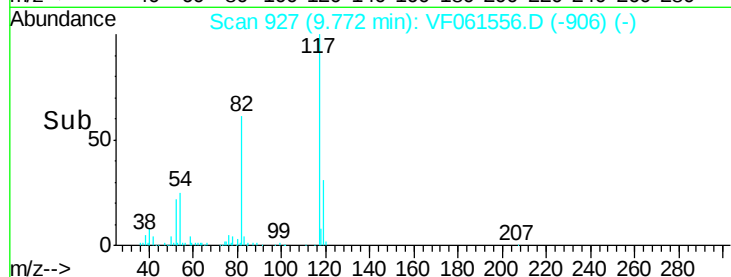
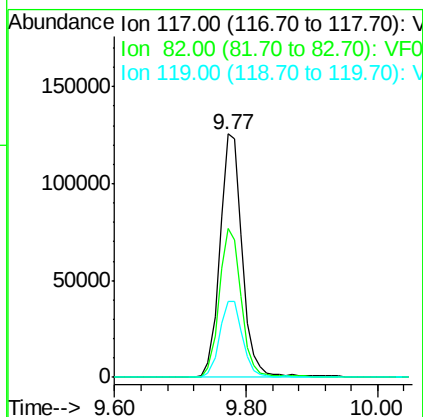
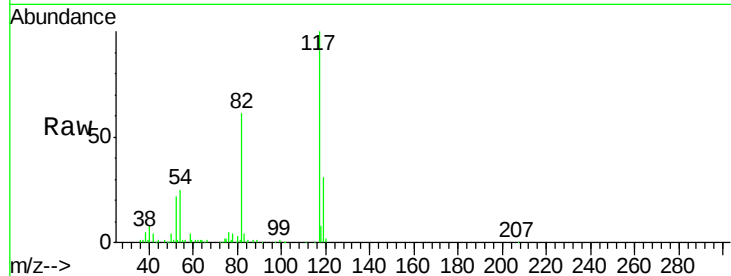




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.77 min Scan# 927
Delta R.T. 0.01 min
Lab File: VF061556.D
Acq: 7 Feb 2019 20:35

Instrument :
MSVOA_F
ClientSampleId :
A0C12-SS3-9.0-9.5

Tot Ion	Ratio	Lower	Upper
117	100		
82	61.3	46.4	69.6
119	31.2	27.2	40.8



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.55 min Scan# 1209
Delta R.T. 0.01 min
Lab File: VF061556.D
Acq: 7 Feb 2019 20:35

Tgt Ion	Ratio	Lower	Upper
152	100		
115	61.2	30.0	90.0
150	151.5	0.0	321.4

