

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF072418\
 Data File : VF059650.D
 Acq On : 25 Jul 2018 00:27
 Operator : VA/AP
 Sample : J4106-02RE
 Misc : 5.02g/5mL/MSVOA F/SOIL
 ALS Vial : 100 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :

Quant Time: Jul 25 05:12:37 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F072418S.M
 Quant Title : SW846 8260
 QLast Update : Wed Jul 25 02:29:31 2018
 Response via : Initial Calibration

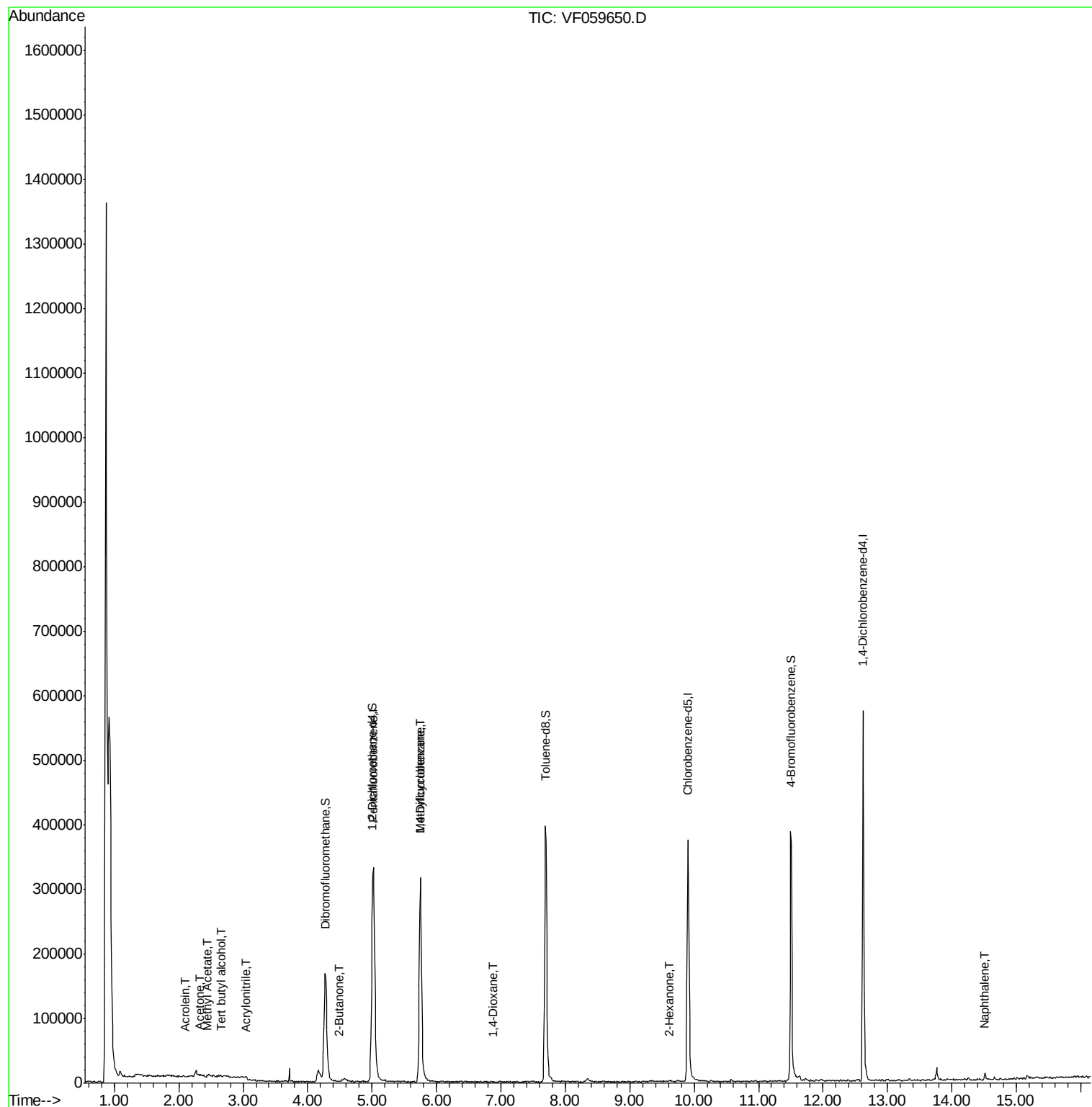
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.03	168	226057	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.75	114	312839	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.90	117	265829	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.62	152	145294	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.00	65	165597	52.57	ug/l	0.00
Spiked Amount 50.000			Recovery	=	105.14%	
35) Dibromofluoromethane	4.27	113	156470	55.58	ug/l	0.00
Spiked Amount 50.000			Recovery	=	111.16%	
50) Toluene-d8	7.69	98	323742	47.18	ug/l	0.00
Spiked Amount 50.000			Recovery	=	94.36%	
62) 4-Bromofluorobenzene	11.50	95	142974	40.55	ug/l	0.00
Spiked Amount 50.000			Recovery	=	81.10%	
Target Compounds						
					Qvalue	
3) Chloromethane	1.09	50	973	Below Cal	#	40
5) Bromomethane	1.32	94	463	Below Cal	#	3
9) 1,1,2-Trichlorotrifluoroet	1.88	101	78	Below Cal	#	35
11) Tert butyl alcohol	2.66	59	246	2.097 ug/l	#	5
12) 1,1-Dichloroethene	1.85	96	124	Below Cal	#	1
13) Acrolein	2.10	56	482	8.381 ug/l		82
15) Acrylonitrile	3.05	53	347	1.719 ug/l	#	20
16) Acetone	2.34	43	3987	8.108 ug/l		96
17) Carbon Disulfide	1.84	76	74	Below Cal	#	76
18) Methyl Acetate	2.44	43	4577	2.848 ug/l	#	88
20) Methylene Chloride	2.27	84	3704	Below Cal	#	91
25) 2-Butanone	4.50	43	430	2.808 ug/l	#	61
26) 2,2-Dichloropropane	3.80	77	174	Below Cal	#	63
28) Bromochloromethane	3.89	49	61	Below Cal	#	11
29) Tetrahydrofuran	4.25	42	400	Below Cal	#	86
37) Ethyl Acetate	4.29	43	109	Below Cal	#	16
39) Methylcyclohexane	5.74	83	4869	1.873 ug/l	#	41
49) 1,4-Dioxane	6.88	88	77	9.643 ug/l	#	22
52) Toluene	7.77	92	705	Below Cal	#	56
59) 2-Hexanone	9.61	43	1795	2.269 ug/l	#	62
87) 1,3-Dichlorobenzene	12.54	146	545	Below Cal		95
89) n-Butylbenzene	12.91	91	563	Below Cal	#	1
93) 1,2,4-Trichlorobenzene	14.27	180	968	Below Cal		89
95) Naphthalene	14.51	128	5832	1.128 ug/l	#	88

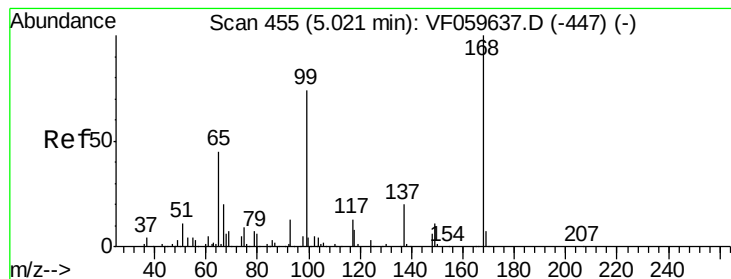
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Wed Jul 25 02:29:31 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.03 min Scan# 456

Delta R.T. 0.01 min

Lab File: VF059650.D

Acq: 25 Jul 2018 00:27

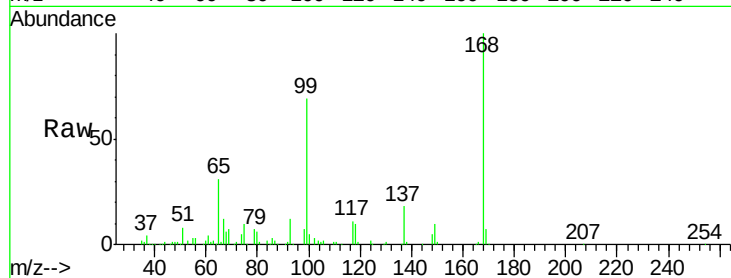
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:168 Resp: 226057

Ion Ratio Lower Upper

168 100

99 69.5 59.5 89.3



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

5.03

80000

60000

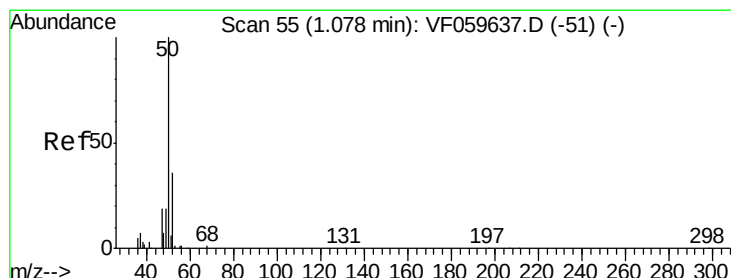
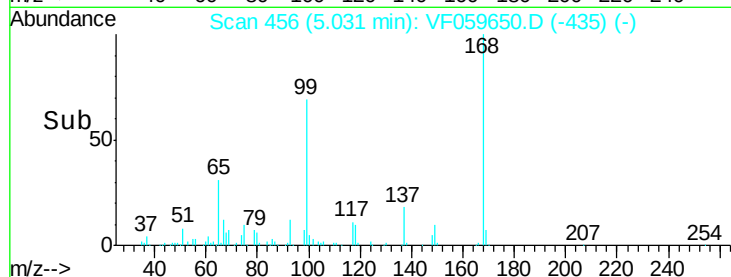
40000

20000

0

Time-->

4.90 5.00 5.10 5.20



#3

Chloromethane

Concen: Below Cal

RT: 1.09 min Scan# 56

Delta R.T. 0.01 min

Lab File: VF059650.D

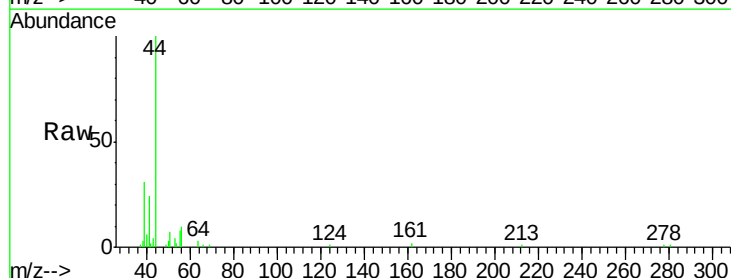
Acq: 25 Jul 2018 00:27

Tgt Ion: 50 Resp: 973

Ion Ratio Lower Upper

50 100

52 0.0 28.0 42.0#



Abundance Ion 50.00 (49.70 to 50.70): VF0

Ion 52.00 (51.70 to 52.70): VF0

1.09

300

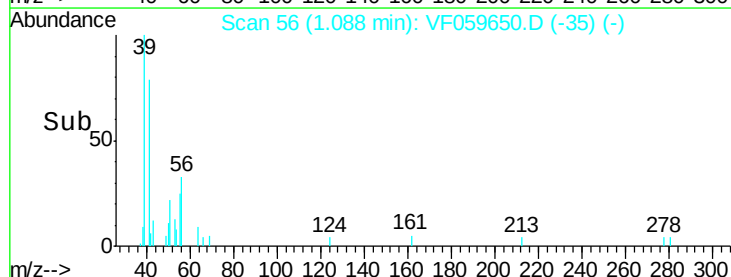
200

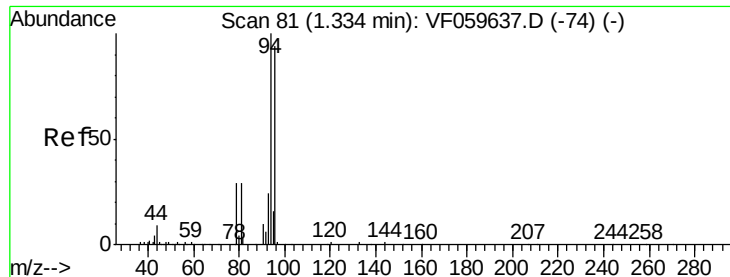
100

0

Time-->

1.00 1.05 1.10 1.15 1.20





#5

Bromomethane

Concen: Below Cal

RT: 1.32 min Scan# 80

Delta R.T. -0.01 min

Lab File: VF059650.D

Acq: 25 Jul 2018 00:27

Instrument :

MSVOA_F

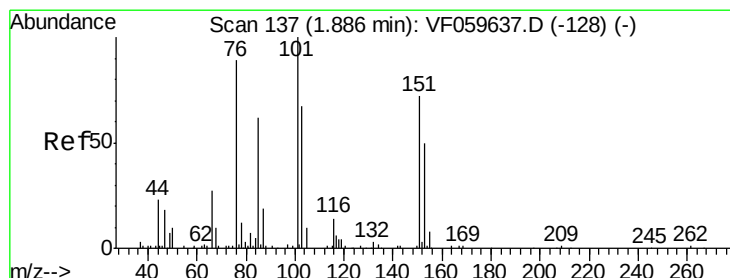
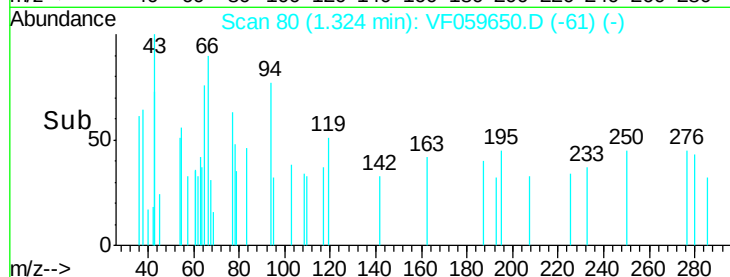
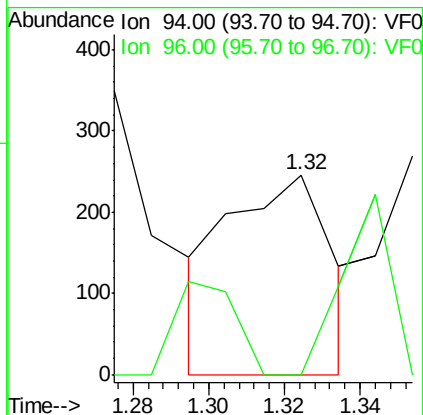
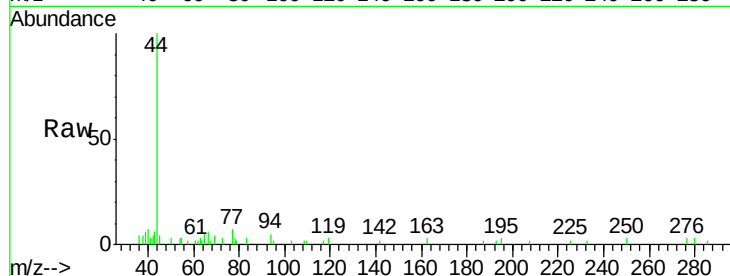
ClientSampled :

Tot Ion: 94 Resp: 463

Ion Ratio Lower Upper

94 100

96 0.0 74.6 112.0#



#9

1,1,2-Trichlorotrifluoroethane

Concen: Below Cal

RT: 1.88 min Scan# 136

Delta R.T. -0.01 min

Lab File: VF059650.D

Acq: 25 Jul 2018 00:27

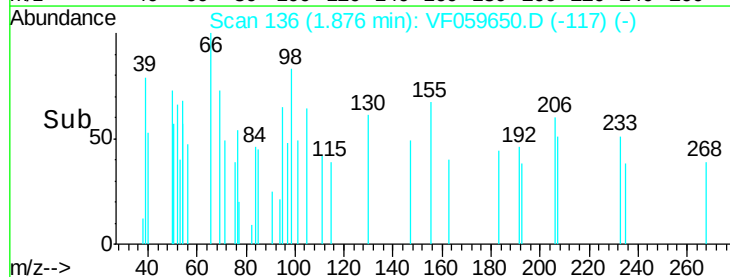
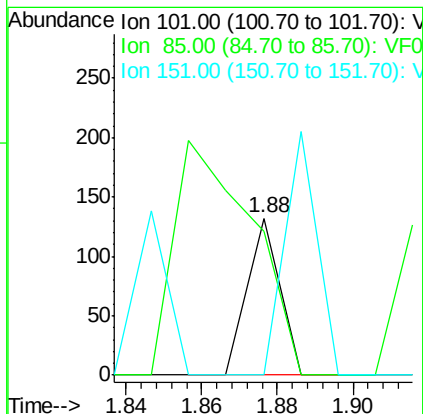
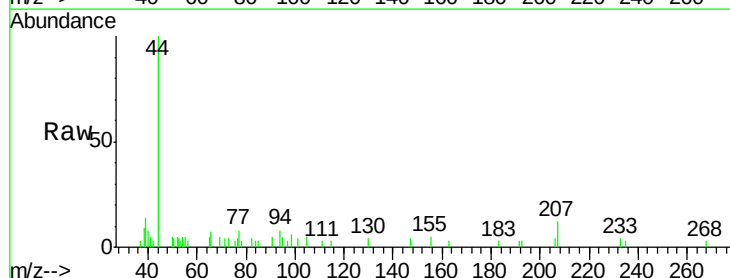
Tgt Ion: 101 Resp: 78

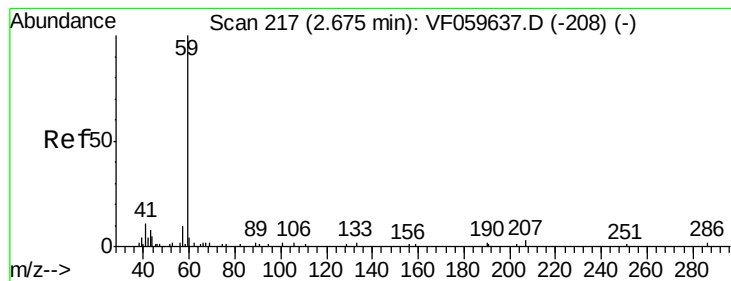
Ion Ratio Lower Upper

101 100

85 91.7 49.0 73.4#

151 0.0 56.8 85.2#



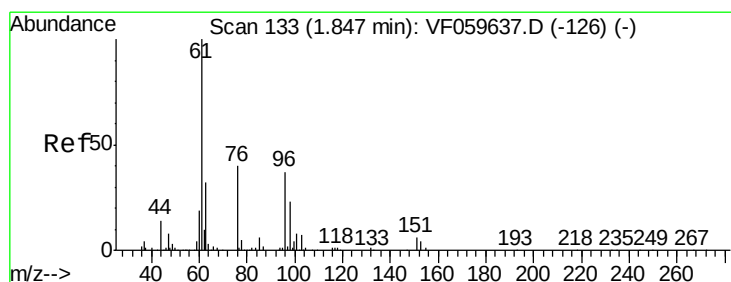
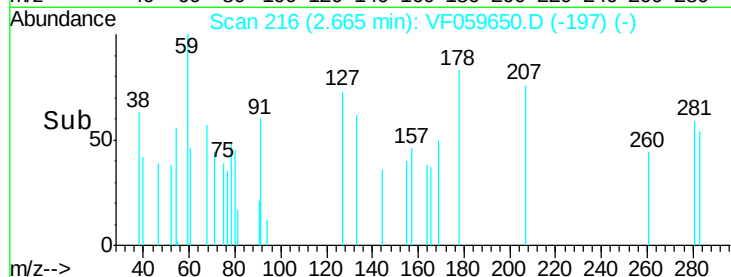
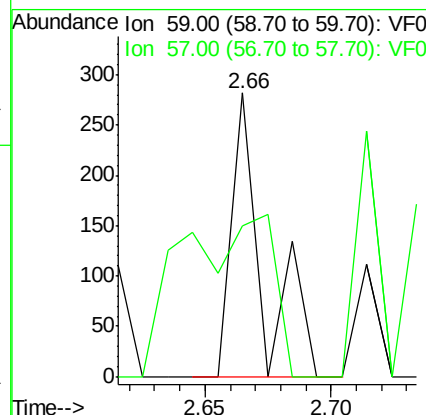
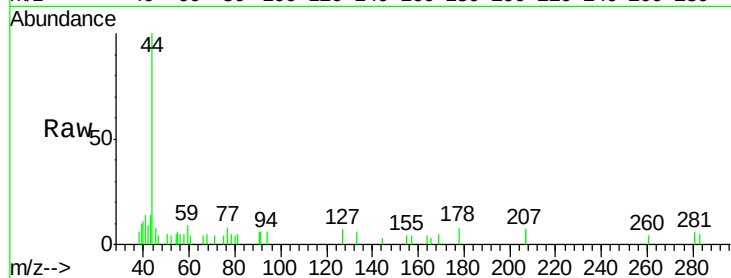


#11

Tert butyl alcohol
Concen: 2.097 ug/l
RT: 2.66 min Scan# 216
Delta R.T. -0.01 min
Lab File: VF059650.D
Acq: 25 Jul 2018 00:27

Instrument :
MSVOA_F
ClientSampled :

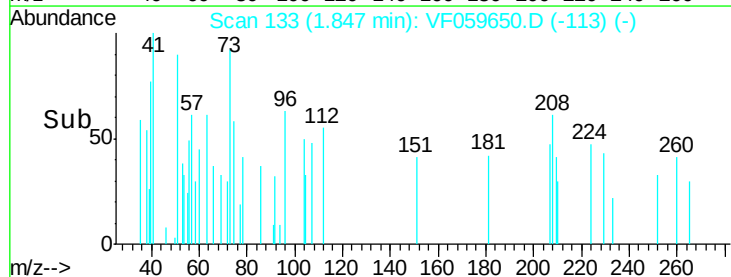
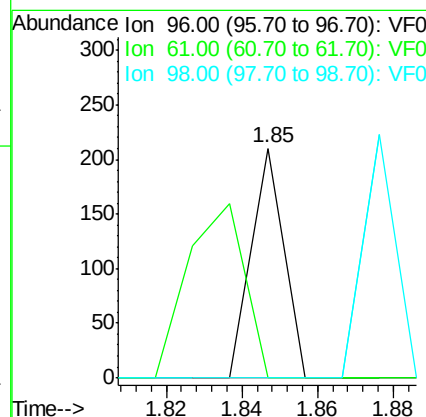
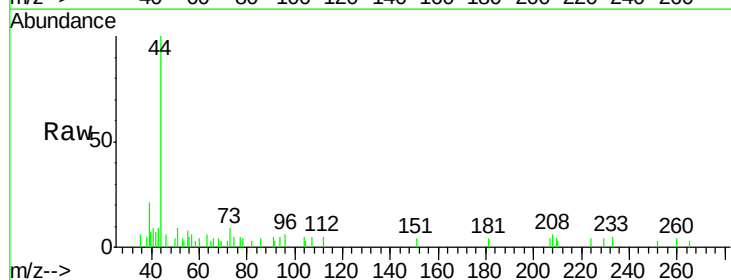
Tot Ion: 59 Resp: 246
Ion Ratio Lower Upper
59 100
57 53.2 11.4 17.2#

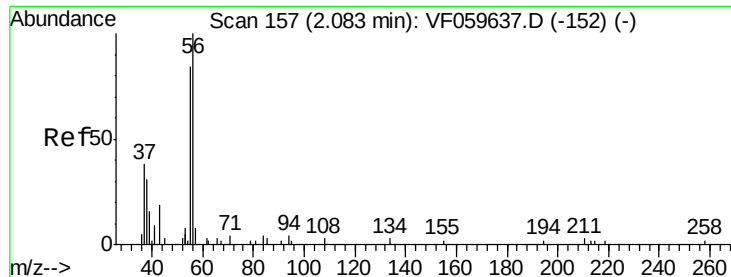


#12

1,1-Dichloroethene
Concen: Below Cal
RT: 1.85 min Scan# 133
Delta R.T. 0.00 min
Lab File: VF059650.D
Acq: 25 Jul 2018 00:27

Tgt Ion: 96 Resp: 124
Ion Ratio Lower Upper
96 100
61 0.0 218.2 327.4#
98 0.0 50.6 76.0#





#13

Acrolein

Concen: 8.381 ug/l

RT: 2.10 min Scan# 159

Delta R.T. 0.02 min

Lab File: VF059650.D

Acq: 25 Jul 2018 00:27

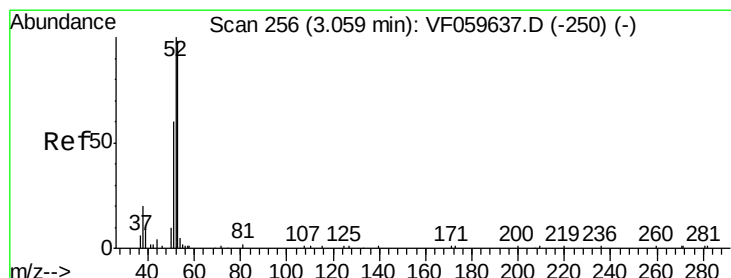
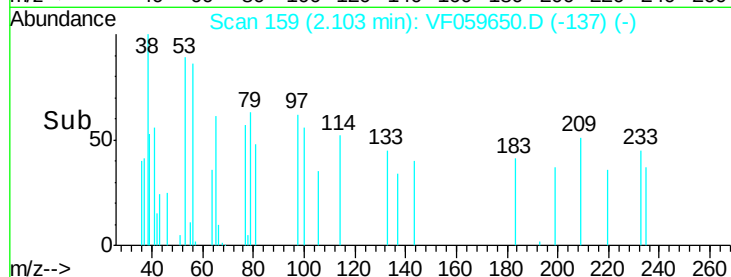
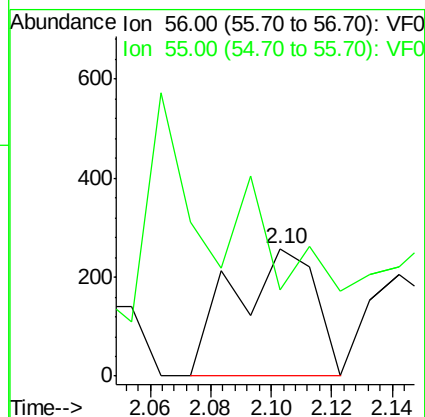
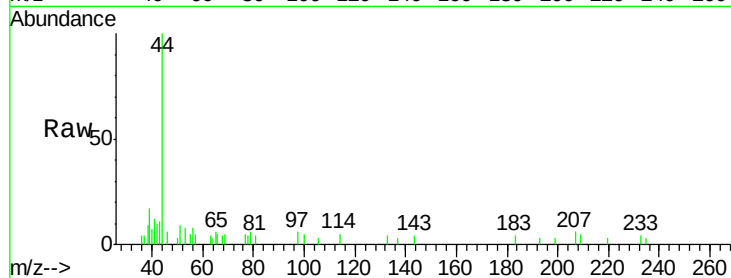
Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 56 Resp: 482

Ion Ratio Lower Upper

56 100

55 68.1 67.2 100.8



#15

Acrylonitrile

Concen: 1.719 ug/l

RT: 3.05 min Scan# 255

Delta R.T. -0.01 min

Lab File: VF059650.D

Acq: 25 Jul 2018 00:27

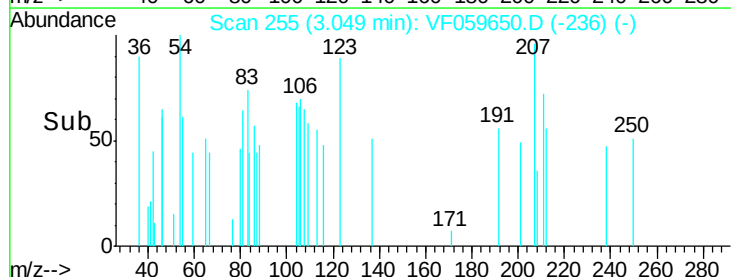
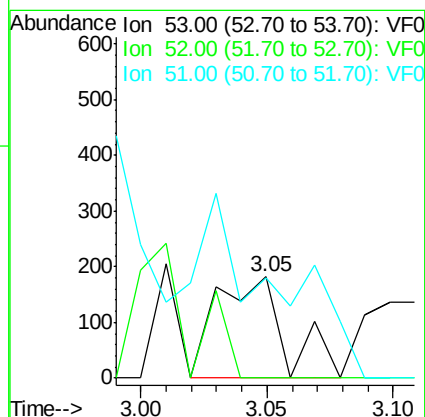
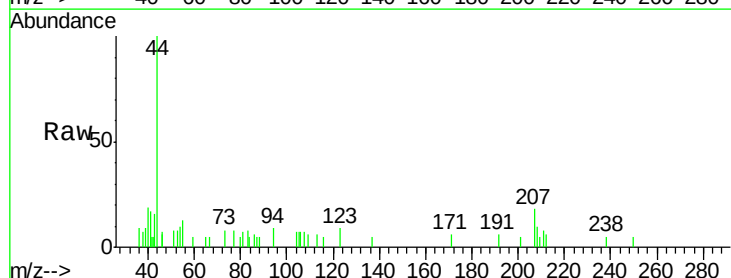
Tgt Ion: 53 Resp: 347

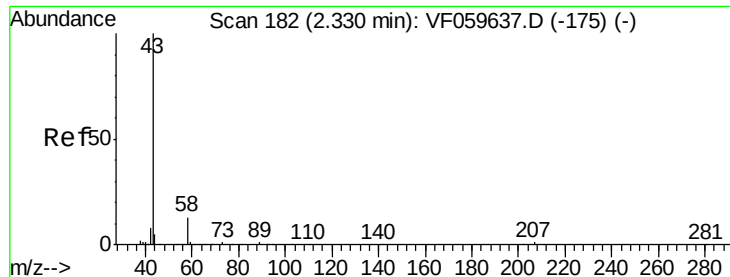
Ion Ratio Lower Upper

53 100

52 0.0 80.9 121.3#

51 98.4 49.4 74.2#





#16

Acetone

Concen: 8.108 ug/l

RT: 2.34 min Scan# 183

Delta R.T. 0.01 min

Lab File: VF059650.D

Acq: 25 Jul 2018 00:27

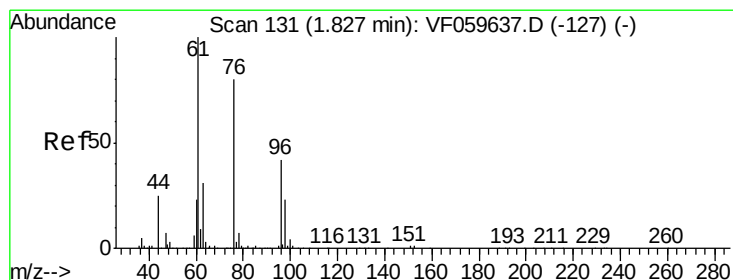
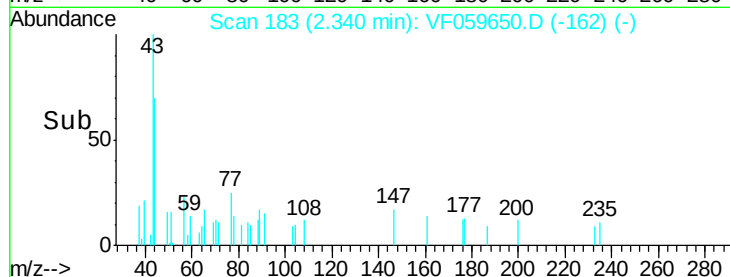
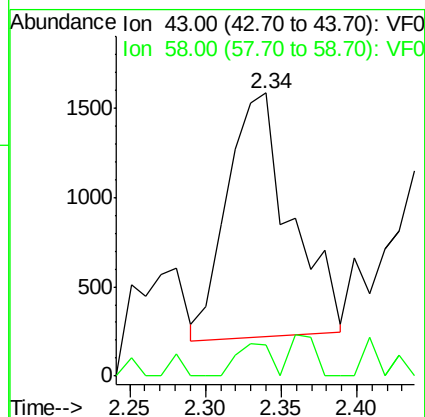
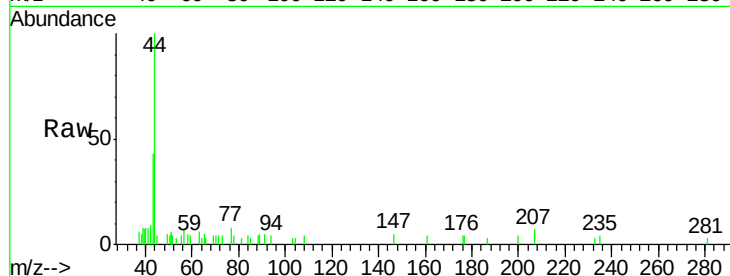
Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 43 Resp: 3987

Ion Ratio Lower Upper

43 100

58 11.0 10.2 15.2



#17

Carbon Disulfide

Concen: Below Cal

RT: 1.84 min Scan# 132

Delta R.T. 0.01 min

Lab File: VF059650.D

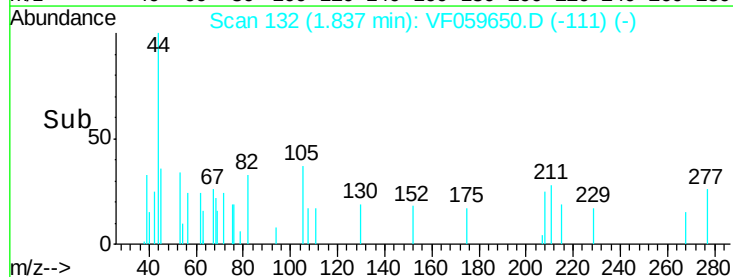
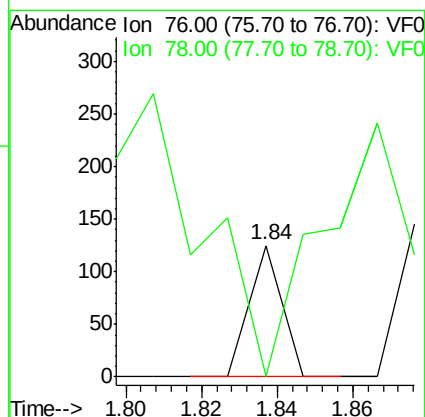
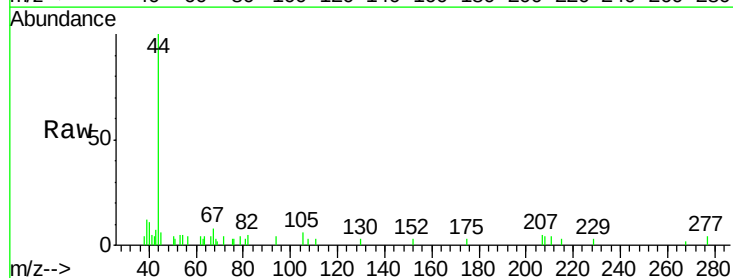
Acq: 25 Jul 2018 00:27

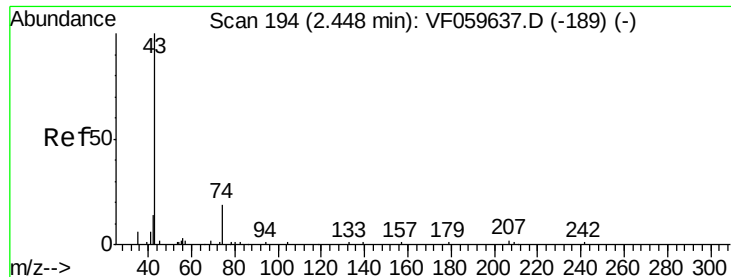
Tgt Ion: 76 Resp: 74

Ion Ratio Lower Upper

76 100

78 0.0 7.0 10.6#

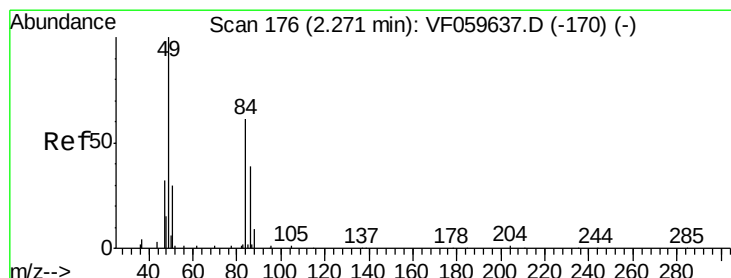
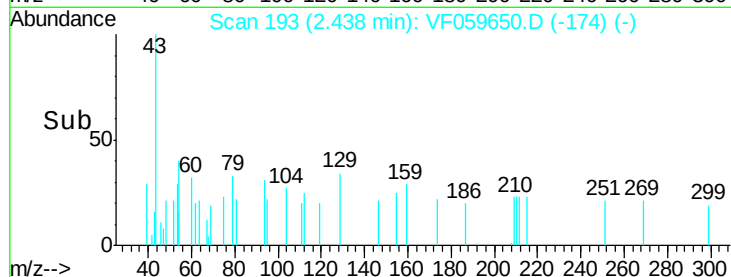
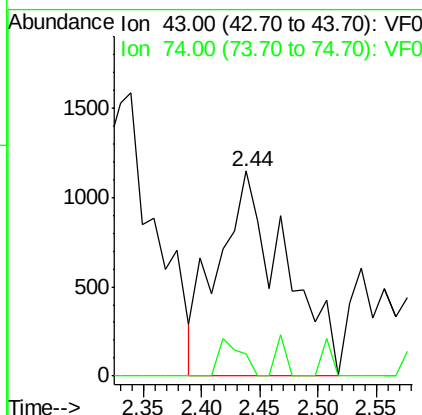
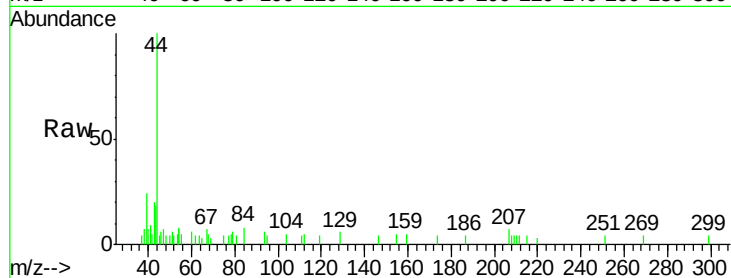




#18
Methyl Acetate
Concen: 2.848 ug/l
RT: 2.44 min Scan# 193
Delta R.T. -0.01 min
Lab File: VF059650.D
Acq: 25 Jul 2018 00:27

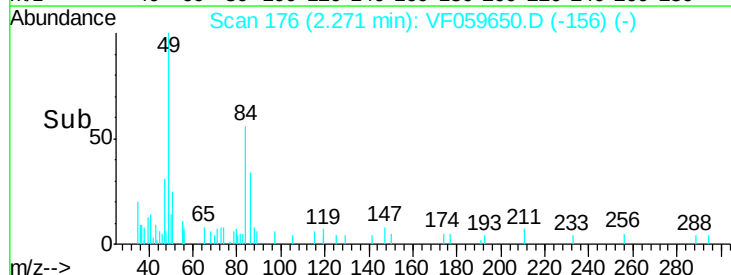
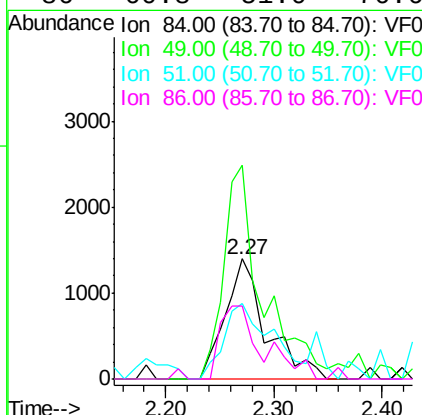
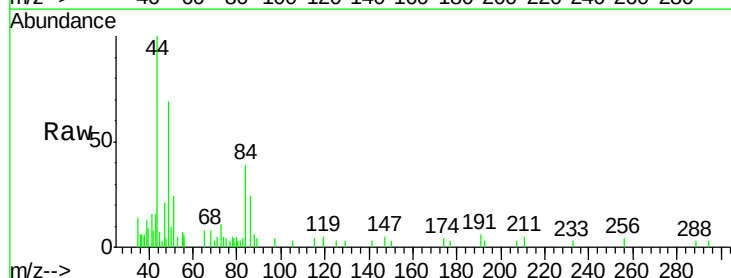
Instrument :
MSVOA_F
ClientSampled :

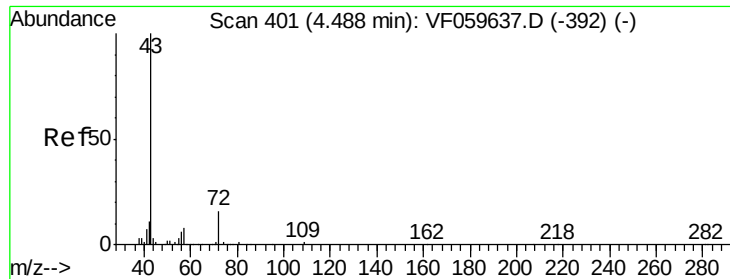
Tot Ion: 43 Resp: 4577
Ion Ratio Lower Upper
43 100
74 11.1 13.0 19.6#



#20
Methylene Chloride
Concen: Below Cal
RT: 2.27 min Scan# 176
Delta R.T. 0.00 min
Lab File: VF059650.D
Acq: 25 Jul 2018 00:27

Tgt Ion: 84 Resp: 3704
Ion Ratio Lower Upper
84 100
49 178.3 133.8 200.8
51 63.0 41.1 61.7#
86 60.8 51.0 76.6





#25

2-Butanone

Concen: 2.808 ug/l

RT: 4.50 min Scan# 402

Delta R.T. 0.01 min

Lab File: VF059650.D

Acq: 25 Jul 2018 00:27

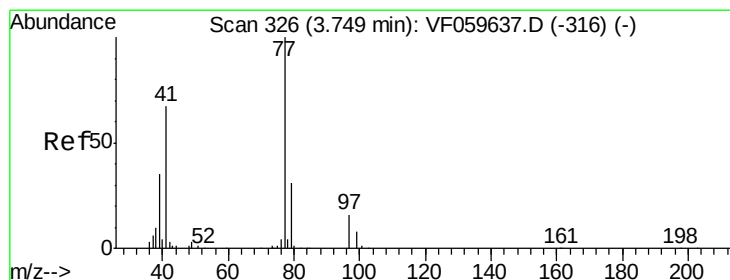
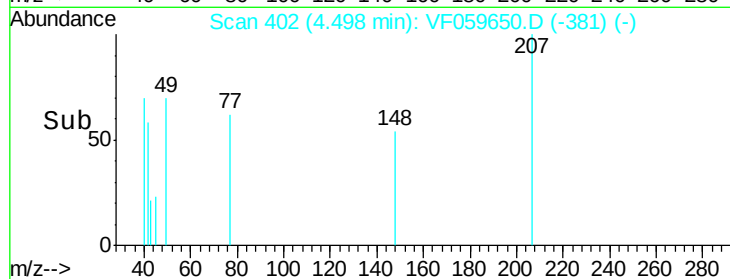
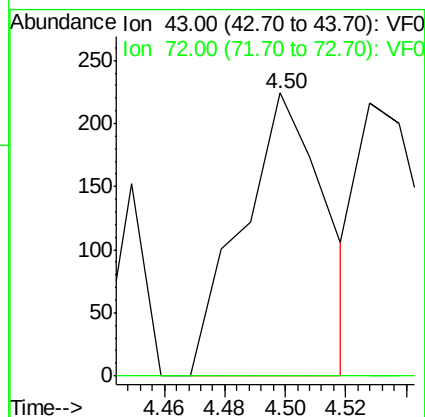
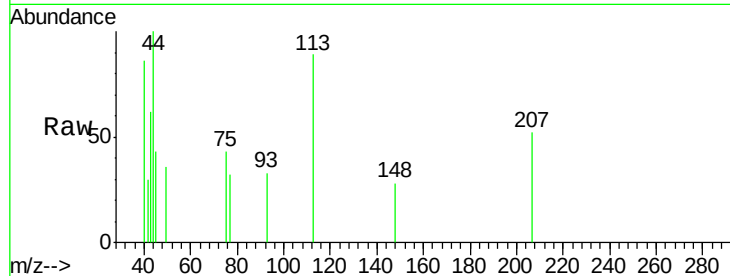
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 43 Resp: 430

Ion Ratio Lower Upper

43 100

72 0.0 13.5 20.3#



#26

2,2-Dichloropropane

Concen: Below Cal

RT: 3.80 min Scan# 331

Delta R.T. 0.05 min

Lab File: VF059650.D

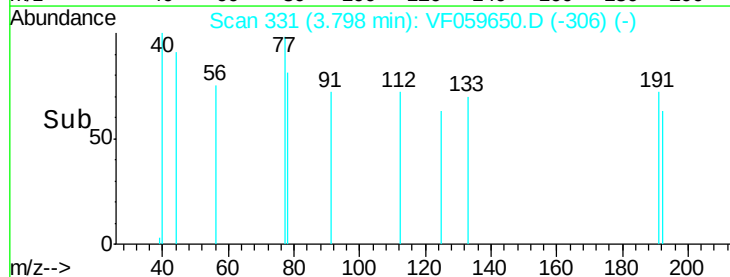
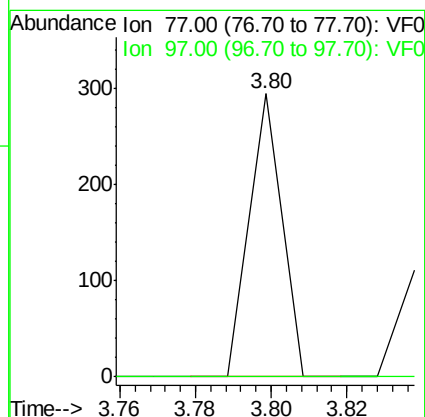
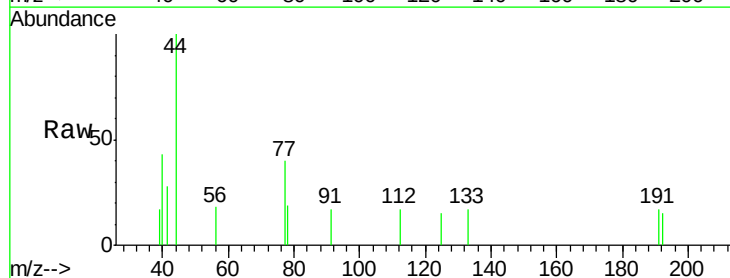
Acq: 25 Jul 2018 00:27

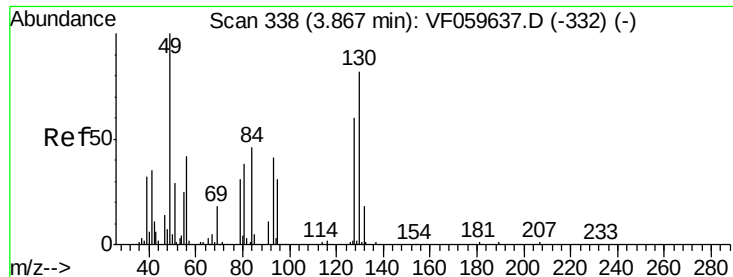
Tgt Ion: 77 Resp: 174

Ion Ratio Lower Upper

77 100

97 0.0 7.8 23.3#





#28

Bromochloromethane

Concen: Below Cal

RT: 3.89 min Scan# 340

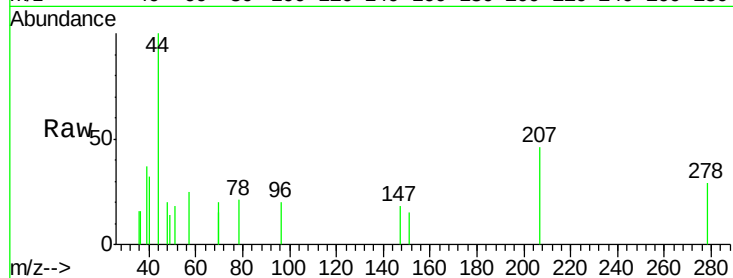
Delta R.T. 0.02 min

Lab File: VF059650.D

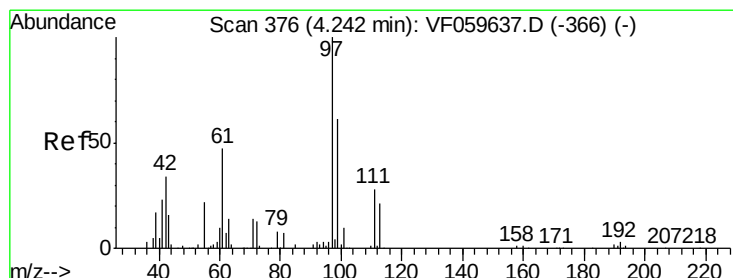
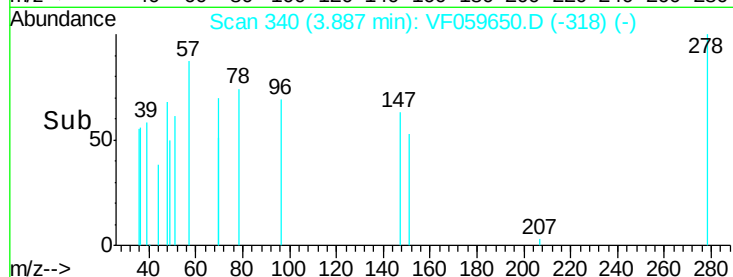
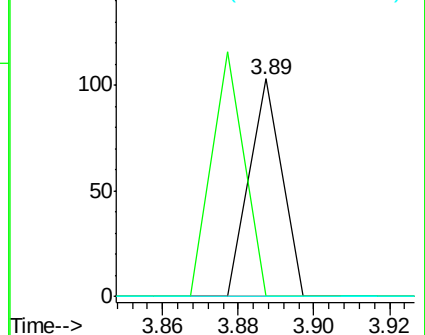
Acq: 25 Jul 2018 00:27

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 49 Resp: 61
Ion Ratio Lower Upper
49 100
129 0.0 0.0 4.6
130 0.0 65.0 97.4#



Abundance Ion 49.00 (48.70 to 49.70): VF0
Ion 129.00 (128.70 to 129.70): V
Ion 130.00 (129.70 to 130.70): V



#29

Tetrahydrofuran

Concen: Below Cal

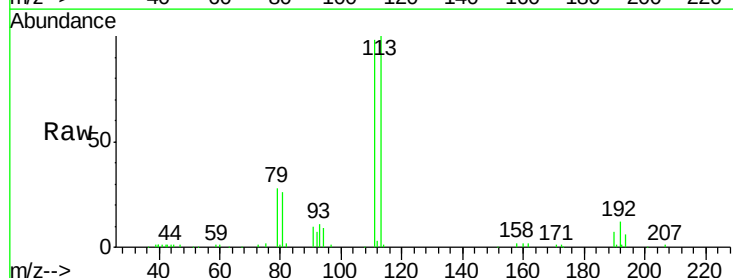
RT: 4.25 min Scan# 377

Delta R.T. 0.01 min

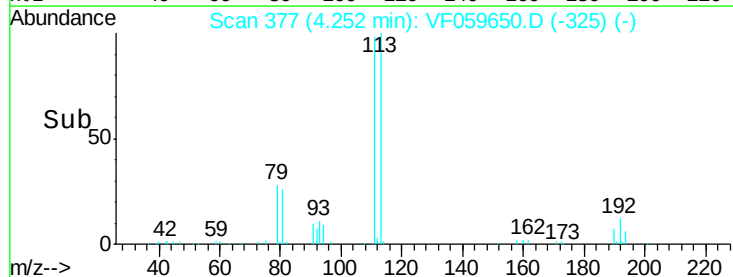
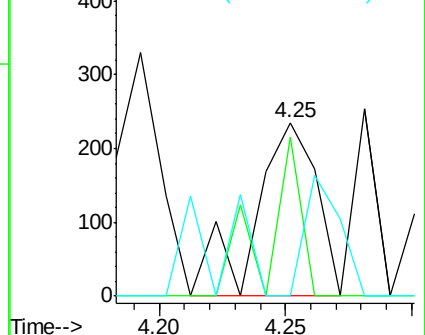
Lab File: VF059650.D

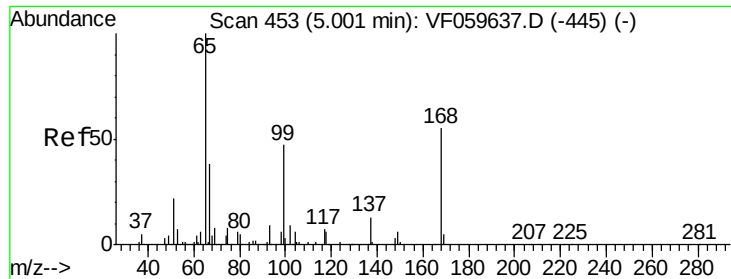
Acq: 25 Jul 2018 00:27

Tgt Ion: 42 Resp: 400
Ion Ratio Lower Upper
42 100
72 50.0 30.0 45.0#
71 39.5 28.6 42.8



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

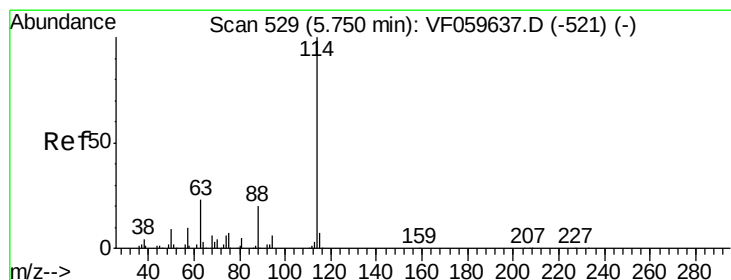
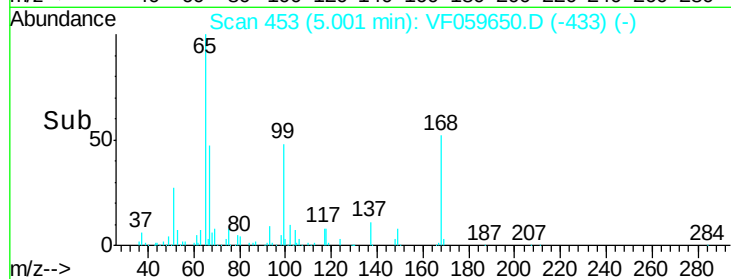
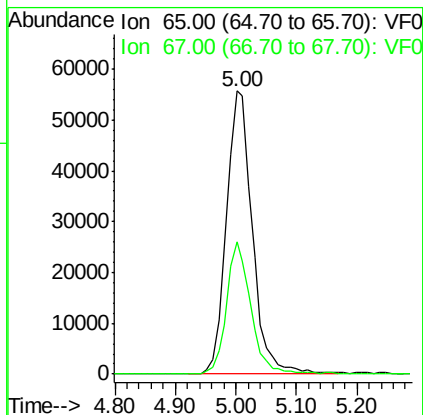
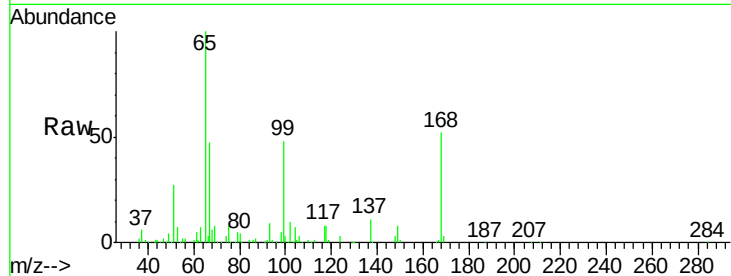




#33
 1,2-Dichloroethane-d4
 Concen: 52.574 ug/l
 RT: 5.00 min Scan# 453
 Delta R.T. 0.00 min
 Lab File: VF059650.D
 Acq: 25 Jul 2018 00:27

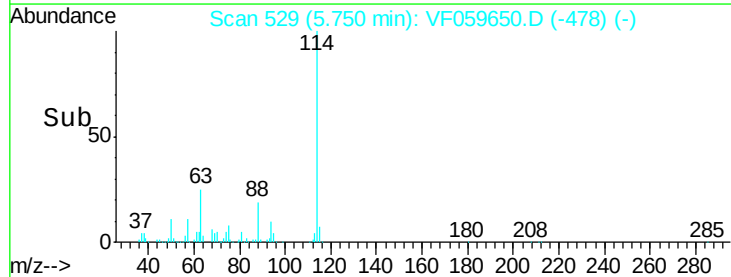
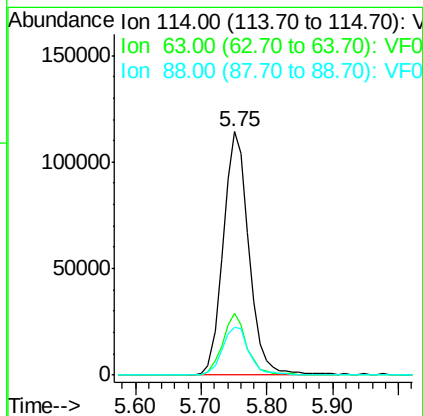
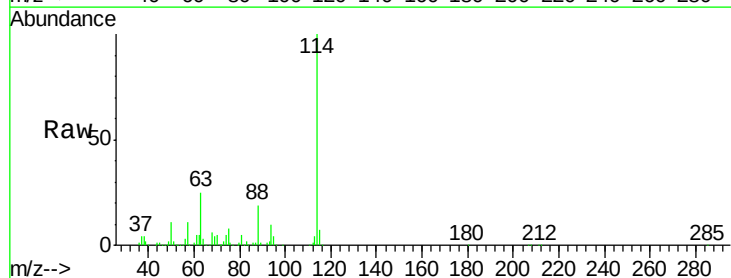
Instrument :
 MSVOA_F
 ClientSampled :

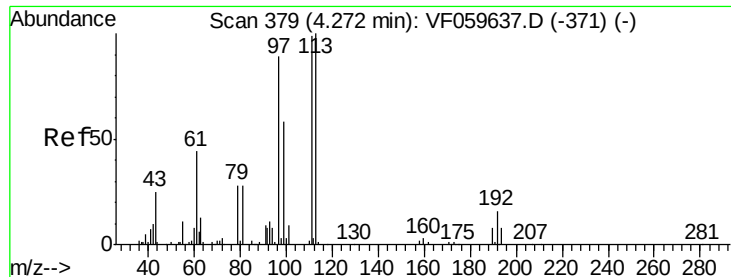
Tot Ion: 65 Resp: 165597
 Ion Ratio Lower Upper
 65 100
 67 46.8 0.0 86.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.75 min Scan# 529
 Delta R.T. 0.00 min
 Lab File: VF059650.D
 Acq: 25 Jul 2018 00:27

Tgt Ion: 114 Resp: 312839
 Ion Ratio Lower Upper
 114 100
 63 25.3 0.0 45.6
 88 19.4 0.0 40.8





#35

Dibromofluoromethane

Concen: 55.576 ug/l

RT: 4.27 min Scan# 379

Delta R.T. 0.00 min

Lab File: VF059650.D

Acq: 25 Jul 2018 00:27

Instrument :
MSVOA_F
ClientSampleId :

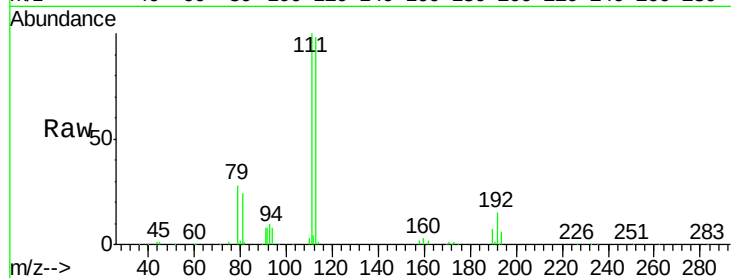
Tot Ion:113 Resp: 156470

Ion Ratio Lower Upper

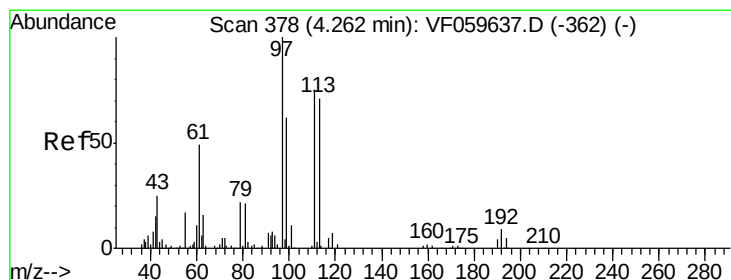
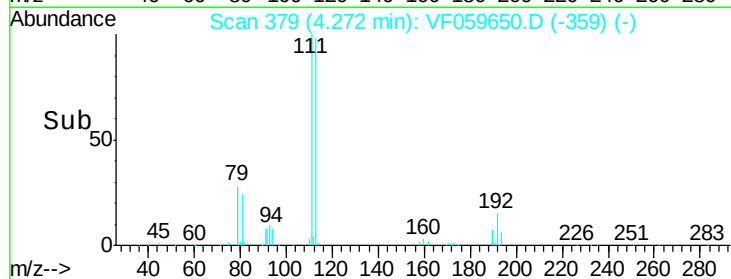
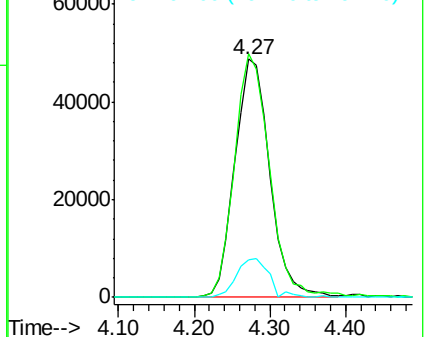
113 100

111 102.3 79.3 118.9

192 15.9 13.4 20.2



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



#37

Ethyl Acetate

Concen: Below Cal

RT: 4.29 min Scan# 381

Delta R.T. 0.03 min

Lab File: VF059650.D

Acq: 25 Jul 2018 00:27

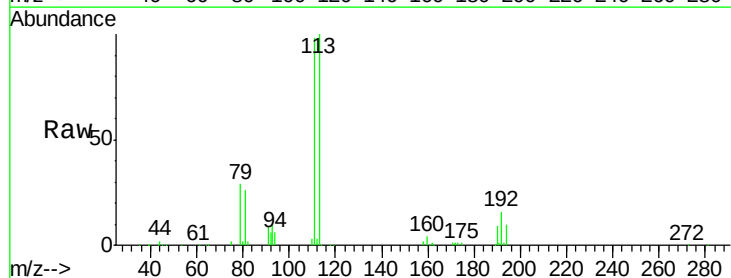
Tgt Ion: 43 Resp: 109

Ion Ratio Lower Upper

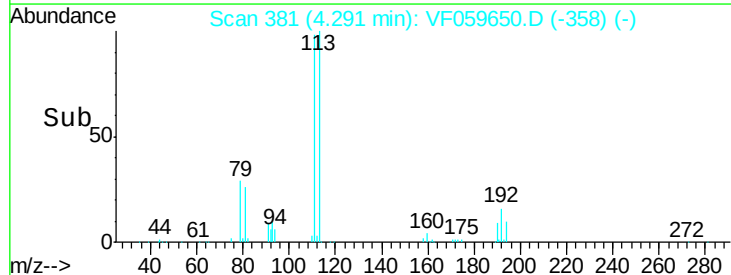
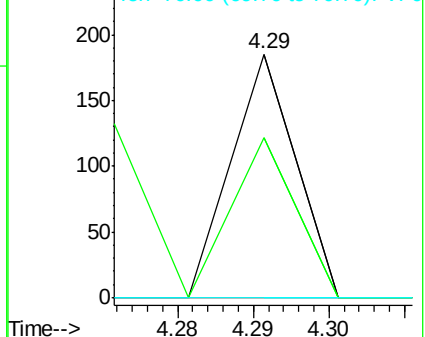
43 100

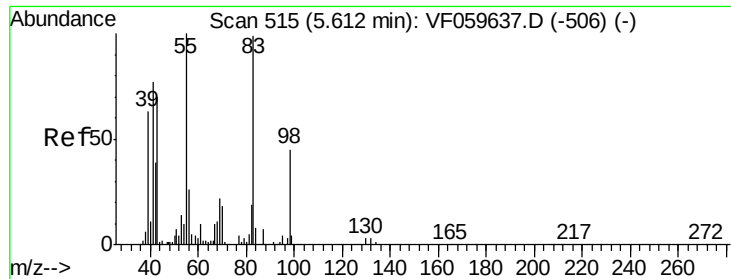
61 65.9 156.6 234.8#

70 0.0 7.3 10.9#



Abundance Ion 43.00 (42.70 to 43.70): VF0
Ion 61.00 (60.70 to 61.70): VF0
Ion 70.00 (69.70 to 70.70): VF0

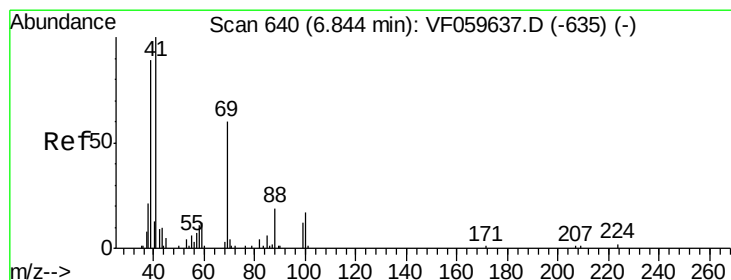
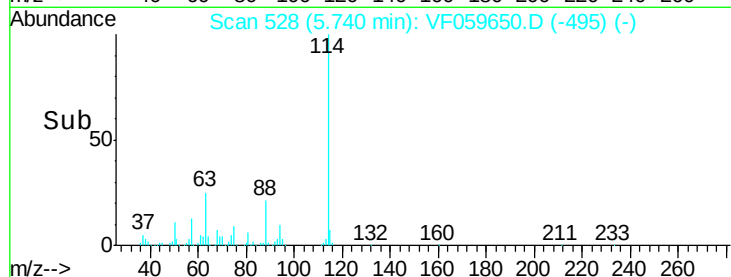
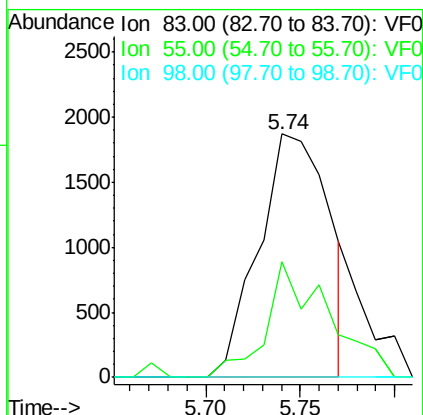
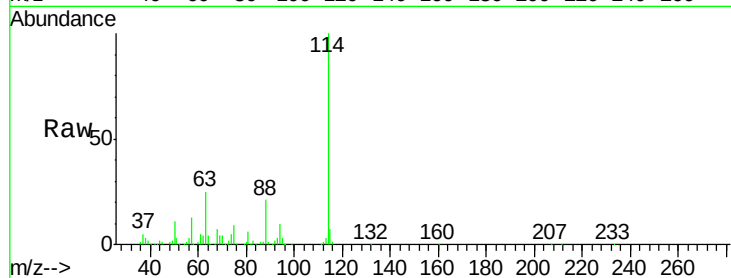




#39
Methylcyclohexane
Concen: 1.873 ug/l
RT: 5.74 min Scan# 528
Delta R.T. 0.13 min
Lab File: VF059650.D
Acq: 25 Jul 2018 00:27

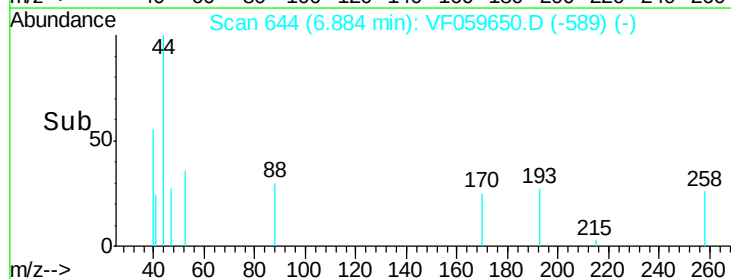
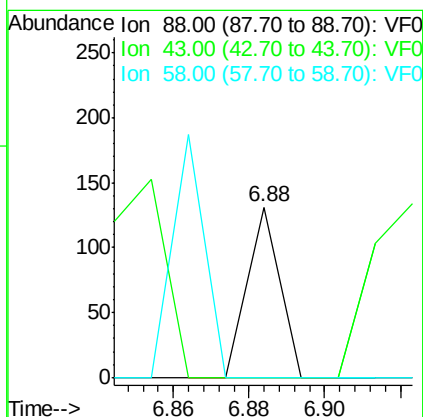
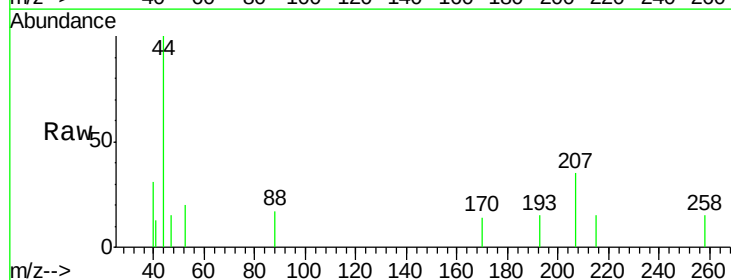
Instrument :
MSVOA_F
ClientSampled :

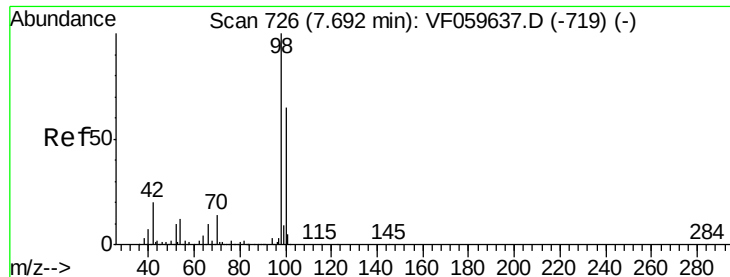
Tot Ion: 83 Resp: 4869
Ion Ratio Lower Upper
83 100
55 47.3 81.5 122.3#
98 0.0 36.7 55.1#



#49
1,4-Dioxane
Concen: 9.643 ug/l
RT: 6.88 min Scan# 644
Delta R.T. 0.04 min
Lab File: VF059650.D
Acq: 25 Jul 2018 00:27

Tgt Ion: 88 Resp: 77
Ion Ratio Lower Upper
88 100
43 0.0 45.3 67.9#
58 0.0 47.7 71.5#





#50

Toluene-d8

Concen: 47.178 ug/l

RT: 7.69 min Scan# 726

Delta R.T. 0.00 min

Lab File: VF059650.D

Acq: 25 Jul 2018 00:27

Instrument :

MSVOA_F

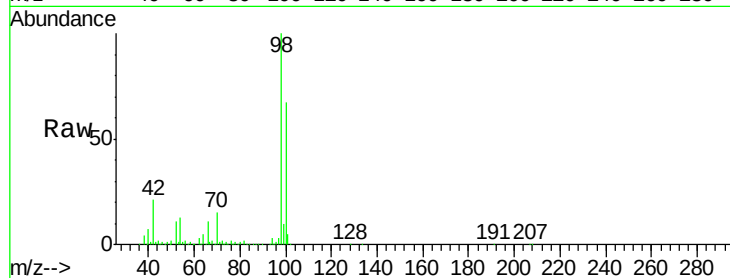
ClientSampled :

Tot Ion: 98 Resp: 323742

Ion Ratio Lower Upper

98 100

100 67.4 52.2 78.4



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0

7.69

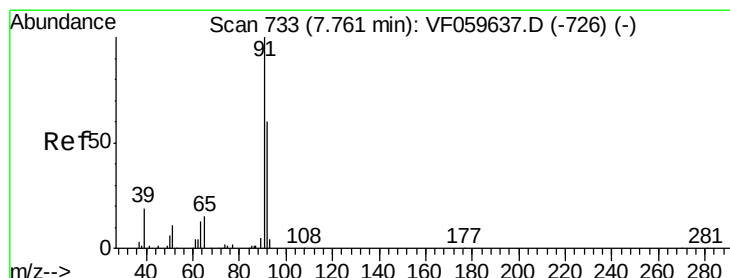
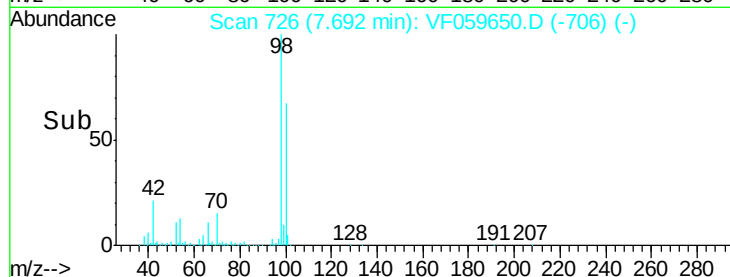
150000

100000

50000

0

Time-->



#52

Toluene

Concen: Below Cal

RT: 7.77 min Scan# 734

Delta R.T. 0.01 min

Lab File: VF059650.D

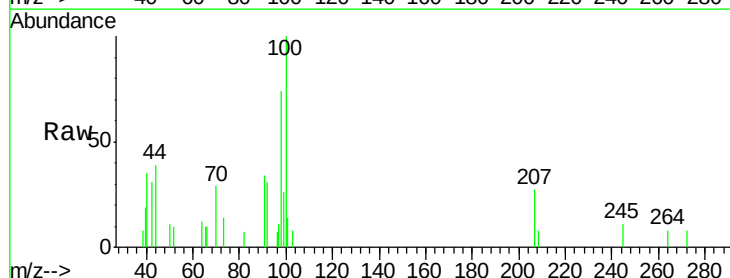
Acq: 25 Jul 2018 00:27

Tgt Ion: 92 Resp: 705

Ion Ratio Lower Upper

92 100

91 107.8 134.2 201.4#



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0

7.77

500

400

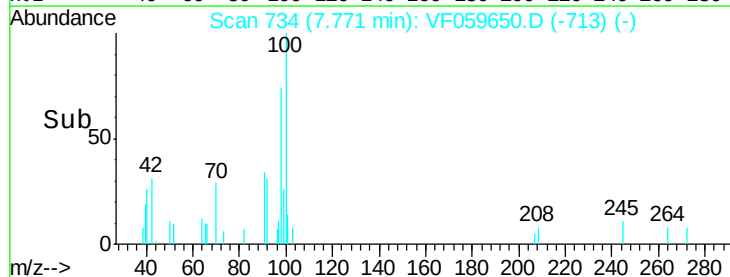
300

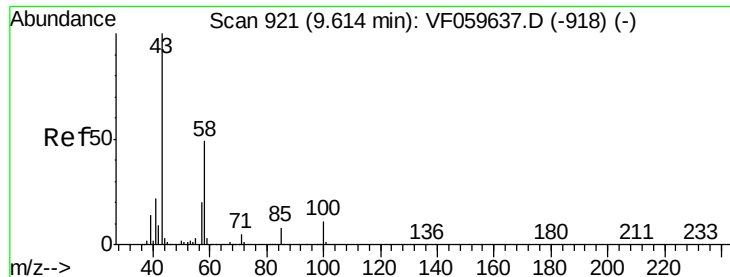
200

100

0

Time-->

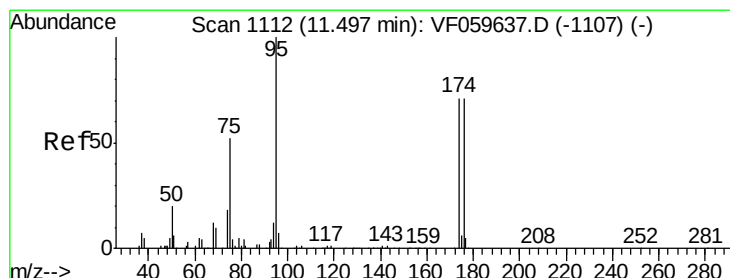
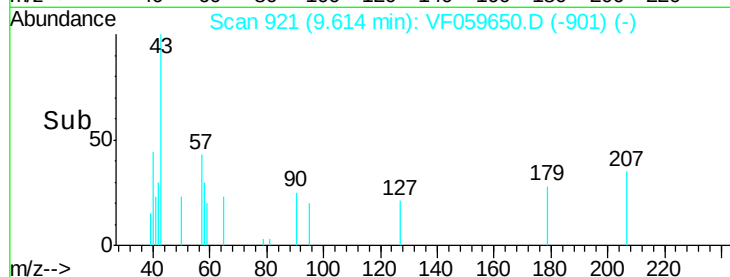
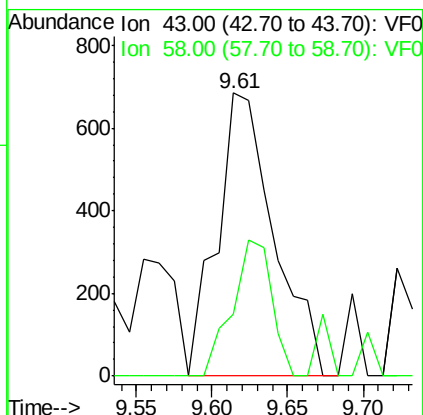
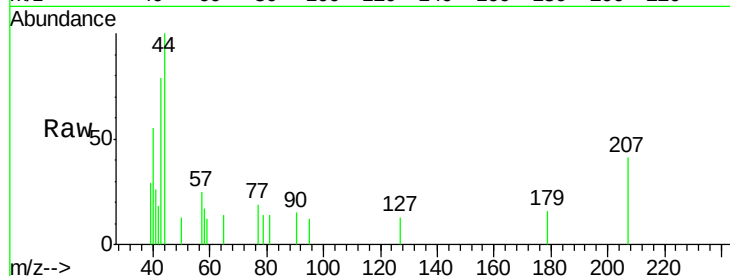




#59
2-Hexanone
Concen: 2.269 ug/l
RT: 9.61 min Scan# 921
Delta R.T. 0.00 min
Lab File: VF059650.D
Acq: 25 Jul 2018 00:27

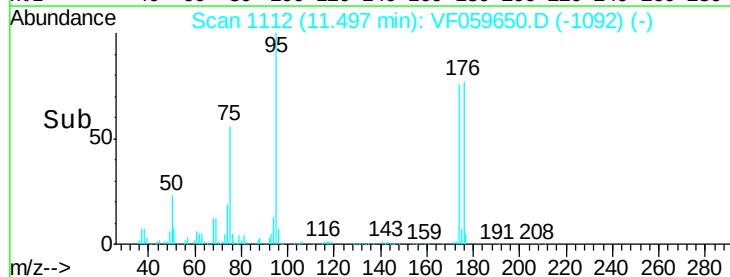
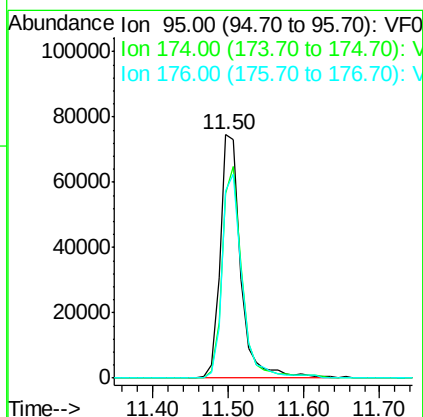
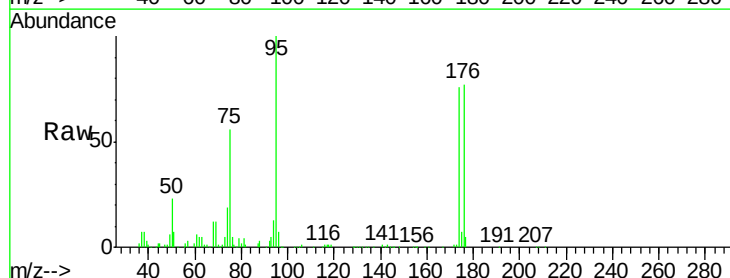
Instrument :
MSVOA_F
ClientSampleId :

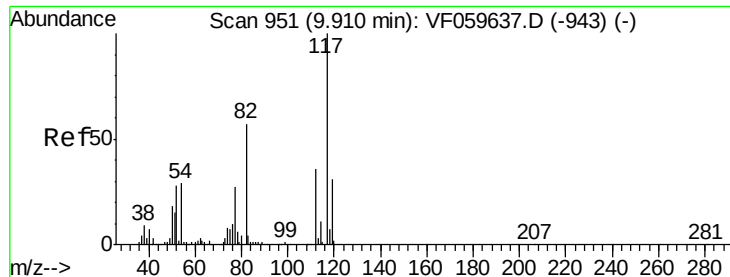
Tot Ion: 43 Resp: 1795
Ion Ratio Lower Upper
43 100
58 22.0 23.6 71.0#



#62
4-Bromofluorobenzene
Concen: 40.547 ug/l
RT: 11.50 min Scan# 1112
Delta R.T. 0.00 min
Lab File: VF059650.D
Acq: 25 Jul 2018 00:27

Tgt Ion: 95 Resp: 142974
Ion Ratio Lower Upper
95 100
174 75.9 0.0 141.8
176 76.9 0.0 142.0





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.90 min Scan# 950

Delta R.T. -0.01 min

Lab File: VF059650.D

Acq: 25 Jul 2018 00:27

Instrument :

MSVOA_F

ClientSampled :

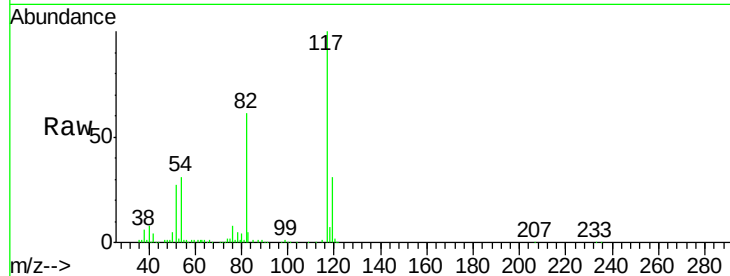
Tot Ion:117 Resp: 265829

Ion Ratio Lower Upper

117 100

82 60.9 45.9 68.9

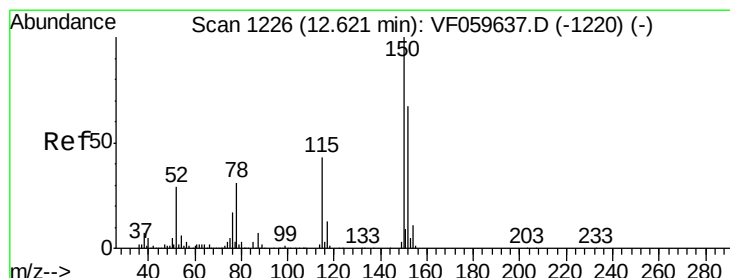
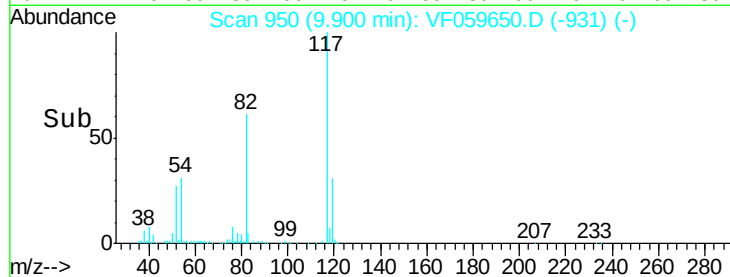
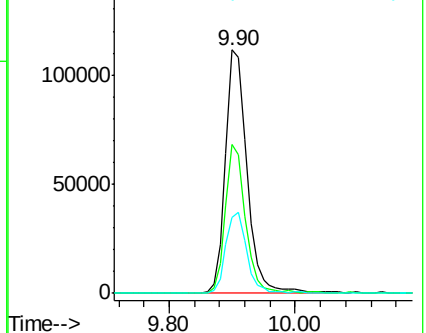
119 30.9 25.1 37.7



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 82.00 (81.70 to 82.70): V

Ion 119.00 (118.70 to 119.70): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.62 min Scan# 1226

Delta R.T. 0.00 min

Lab File: VF059650.D

Acq: 25 Jul 2018 00:27

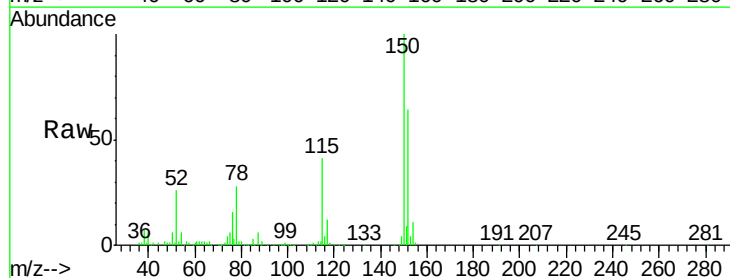
Tgt Ion:152 Resp: 145294

Ion Ratio Lower Upper

152 100

115 64.2 32.0 96.2

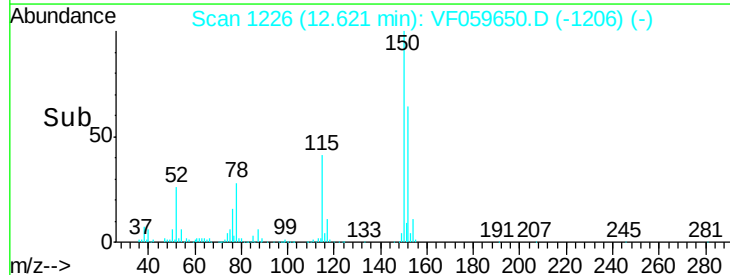
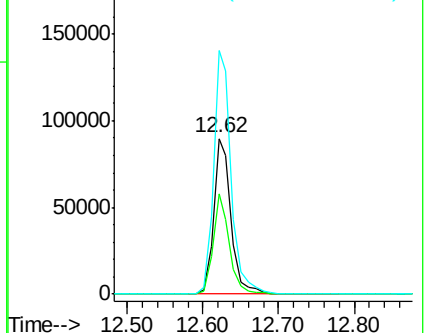
150 156.3 0.0 313.2

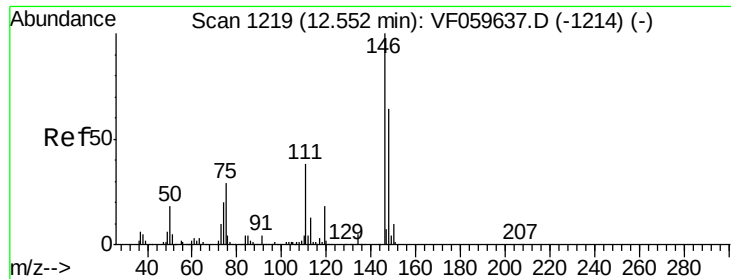


Abundance Ion 152.00 (151.70 to 152.70): V

Ion 115.00 (114.70 to 115.70): V

Ion 150.00 (149.70 to 150.70): V

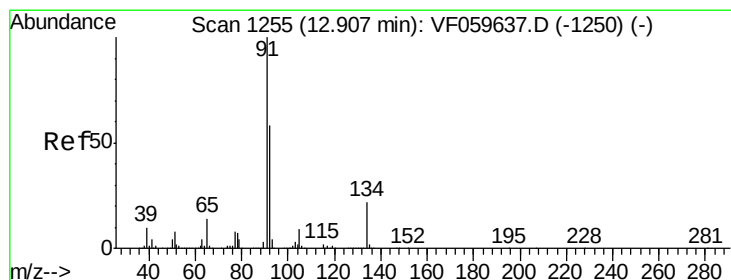
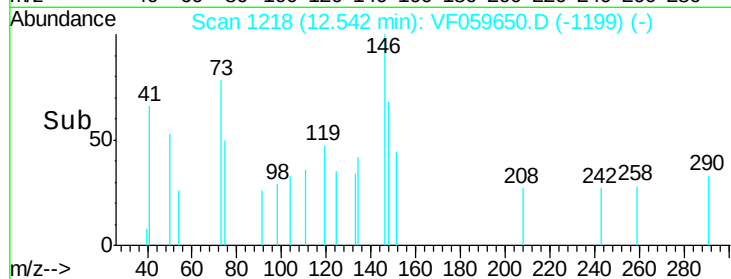
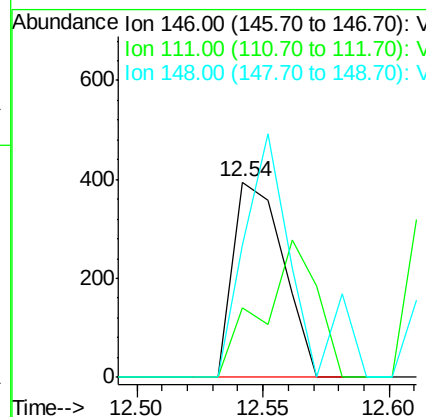
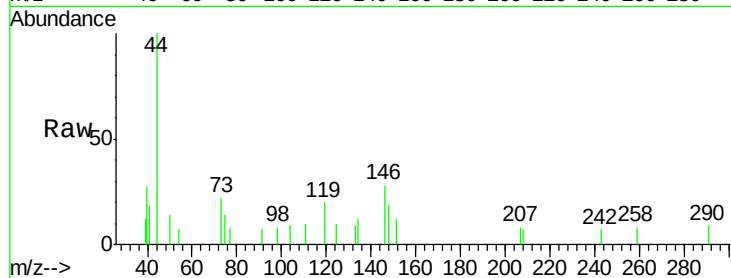




#87
 1,3-Dichlorobenzene
 Concen: Below Cal
 RT: 12.54 min Scan# 1218
 Delta R.T. -0.01 min
 Lab File: VF059650.D
 Acq: 25 Jul 2018 00:27

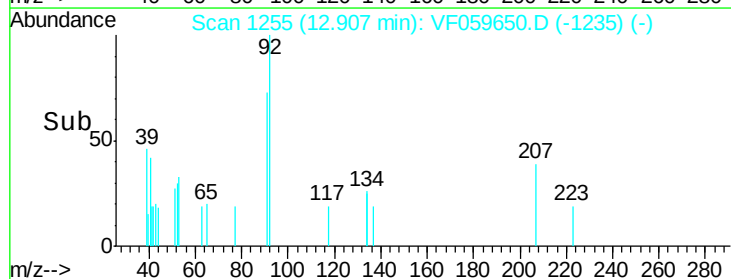
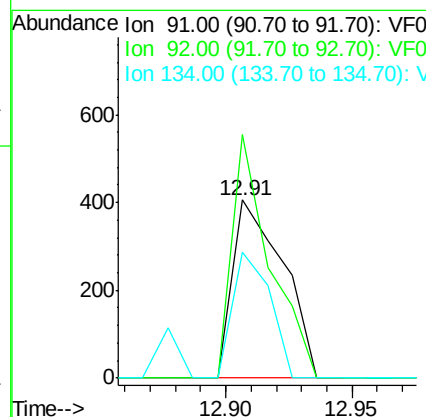
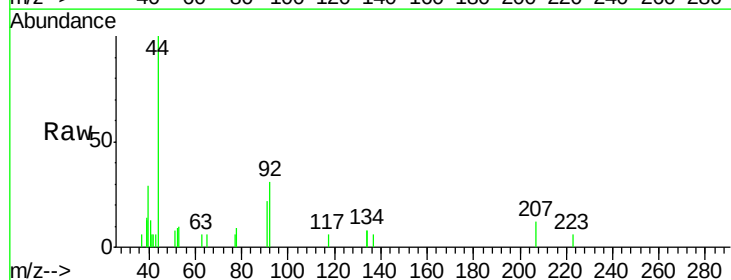
Instrument :
 MSVOA_F
 ClientSampleId :

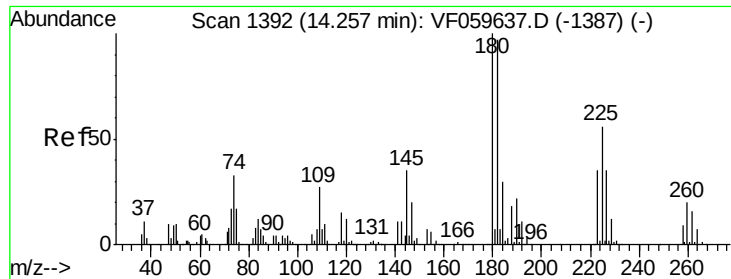
Tot Ion:146 Resp: 545
 Ion Ratio Lower Upper
 146 100
 111 35.5 19.1 57.1
 148 68.0 31.9 95.9



#89
 n-Butylbenzene
 Concen: Below Cal
 RT: 12.91 min Scan# 1255
 Delta R.T. 0.00 min
 Lab File: VF059650.D
 Acq: 25 Jul 2018 00:27

Tgt Ion: 91 Resp: 563
 Ion Ratio Lower Upper
 91 100
 92 137.0 29.1 87.3#
 134 70.9 11.2 33.6#

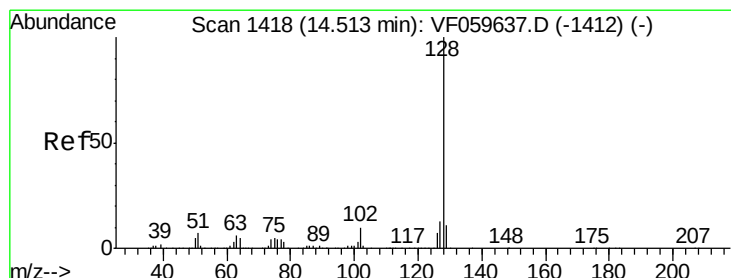
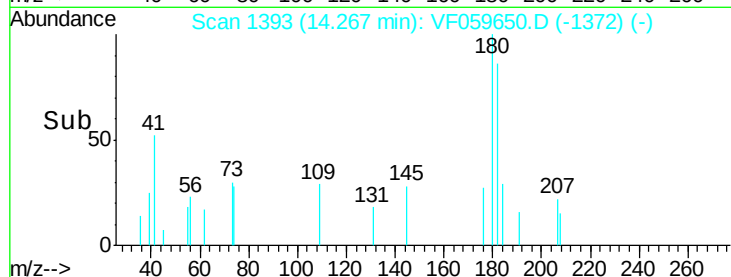
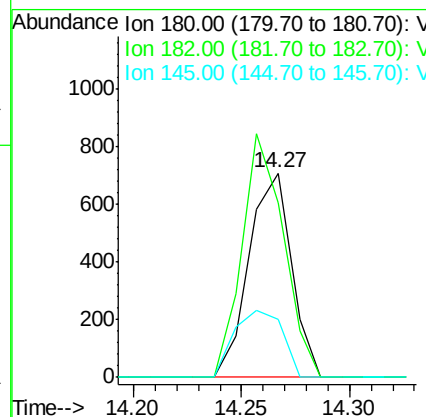
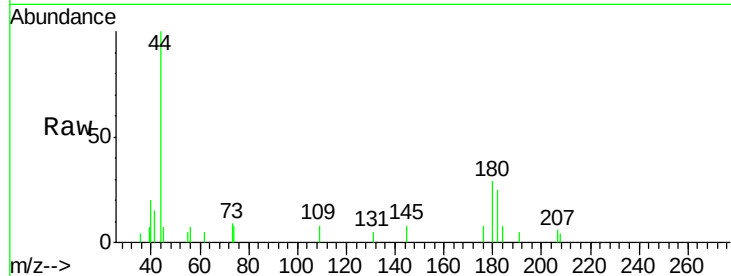




#93
 1,2,4-Trichlorobenzene
 Concen: Below Cal
 RT: 14.27 min Scan# 1393
 Delta R.T. 0.01 min
 Lab File: VF059650.D
 Acq: 25 Jul 2018 00:27

Instrument :
 MSVOA_F
 ClientSampled :

Tot Ion:180 Resp: 968
 Ion Ratio Lower Upper
 180 100
 182 85.6 48.5 145.6
 145 28.5 17.4 52.2



#95
 Naphthalene
 Concen: 1.128 ug/l
 RT: 14.51 min Scan# 1418
 Delta R.T. 0.00 min
 Lab File: VF059650.D
 Acq: 25 Jul 2018 00:27

Tgt Ion:128 Resp: 5832
 Ion Ratio Lower Upper
 128 100
 127 7.9 10.1 15.1#
 129 6.7 9.1 13.7#

