

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF111618\
 Data File : VF060776.D
 Acq On : 16 Nov 2018 20:46
 Operator : VA/AP
 Sample : J5950-04
 Misc : 5.25g/5mL/MSVOA-F/SOIL
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 SSI-02

Quant Time: Nov 17 04:25:02 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F111318S.M
 Quant Title : SW846 8260
 QLast Update : Wed Nov 14 03:11:14 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.88	168	165169	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.61	114	293564	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.79	117	233923	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.56	152	117818	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.85	65	80444	42.70	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	85.40%	
35) Dibromofluoromethane	4.12	113	94720	42.92	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	85.84%	
50) Toluene-d8	7.57	98	223212	38.58	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	77.16%	
62) 4-Bromofluorobenzene	11.42	95	99013	36.85	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	73.70%	

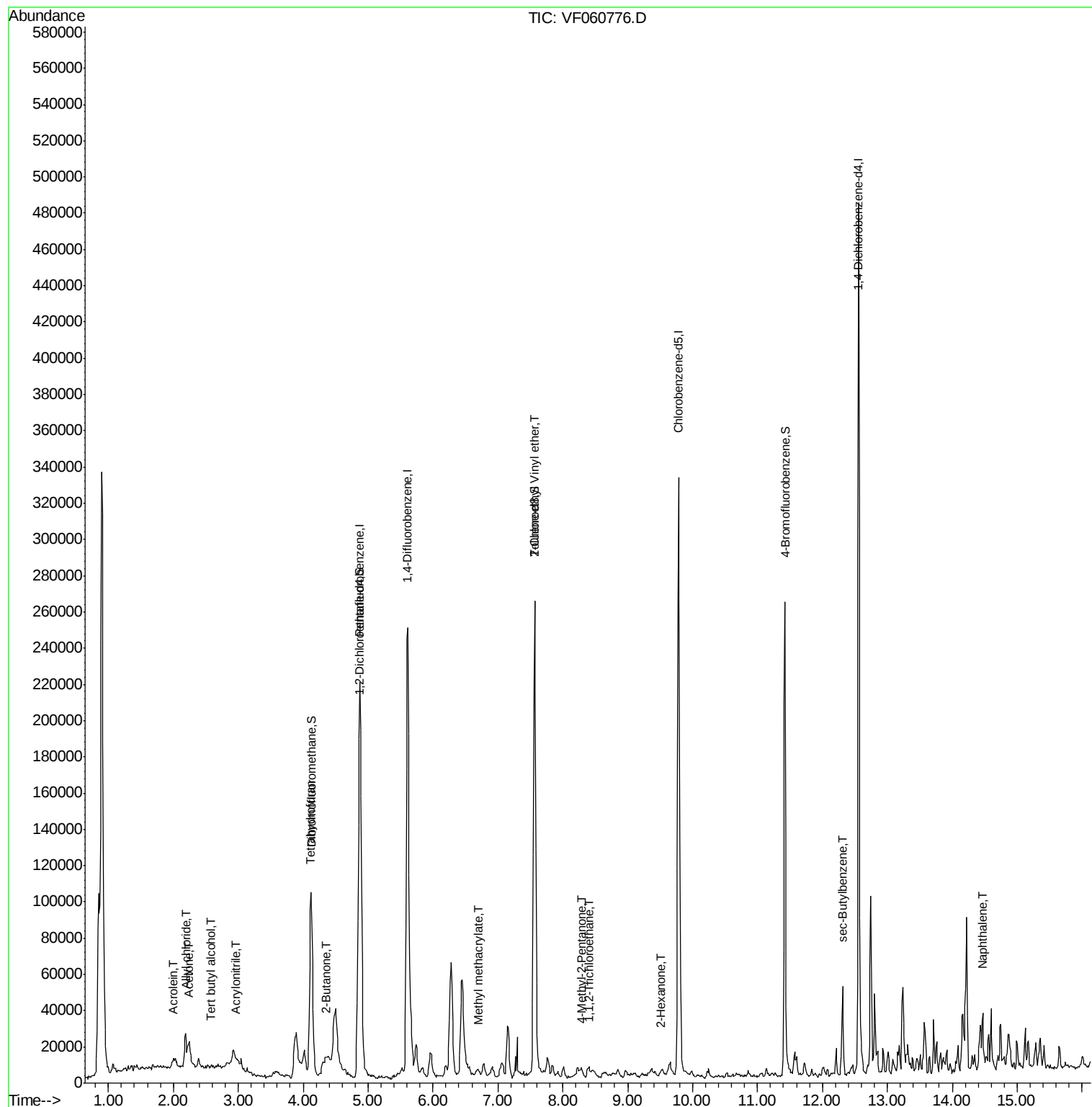
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	2.58	59	198	2.309	ug/l #	1
13) Acrolein	2.00	56	793	10.115	ug/l	95
14) Allyl chloride	2.18	41	8627	3.654	ug/l #	31
15) Acrylonitrile	2.97	53	474	2.594	ug/l #	15
16) Acetone	2.25	43	13138	32.626	ug/l	99
25) 2-Butanone	4.35	43	14645	22.111	ug/l #	79
29) Tetrahydrofuran	4.10	42	471	1.724	ug/l #	36
41) Methacrylonitrile	4.77	41	531	Below Cal	#	53
48) Methyl methacrylate	6.70	41	1721	1.549	ug/l #	78
51) 4-Methyl-2-Pentanone	8.30	43	3397	2.799	ug/l #	68
55) 1,1,2-Trichloroethane	8.40	97	2421	1.666	ug/l #	34
58) 2-Chloroethyl Vinyl ether	7.57	63	353	2.342	ug/l	100
59) 2-Hexanone	9.50	43	2411	2.826	ug/l	88
85) sec-Butylbenzene	12.31	105	20778	1.916	ug/l	94
95) Naphthalene	14.46	128	6273	1.293	ug/l #	73

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.88 min Scan# 431

Delta R.T. -0.01 min

Lab File: VF060776.D

Acq: 16 Nov 2018 20:46

Instrument :

MSVOA_F

ClientSampleId :

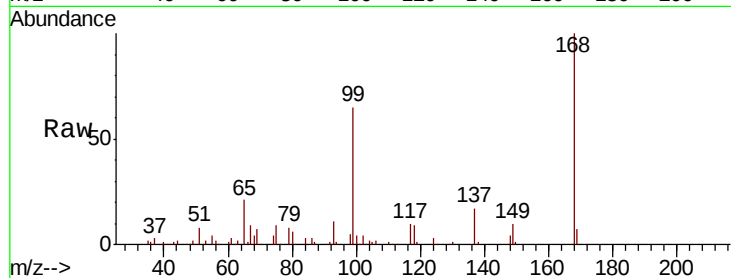
SSI-02

Tot Ion:168 Resp: 165169

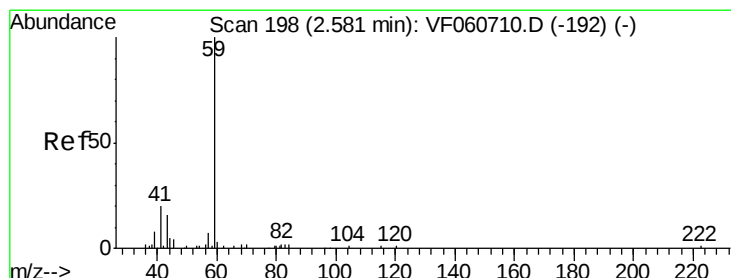
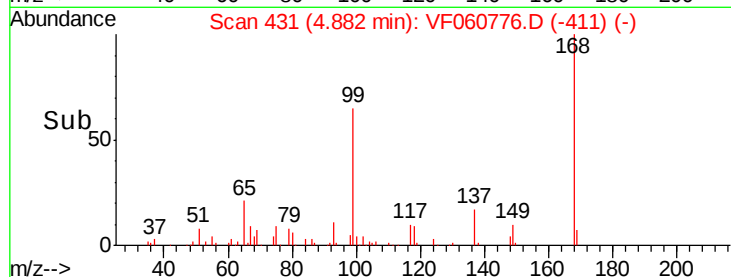
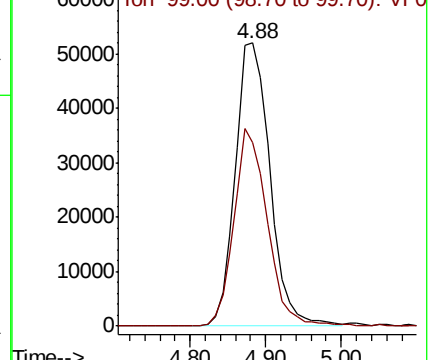
Ion Ratio Lower Upper

168 100

99 64.7 57.2 85.8



Abundance Ion 168.00 (167.70 to 168.70): VF0



#11

Tert butyl alcohol

Concen: 2.309 ug/l

RT: 2.58 min Scan# 198

Delta R.T. 0.00 min

Lab File: VF060776.D

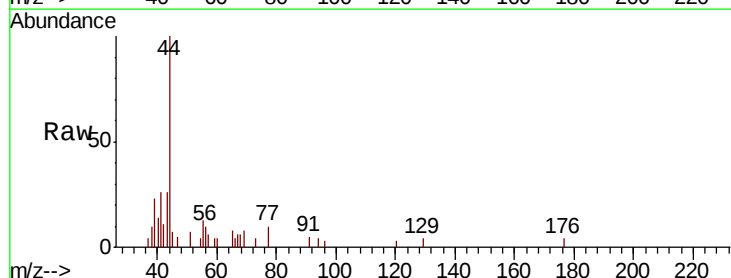
Acq: 16 Nov 2018 20:46

Tgt Ion: 59 Resp: 198

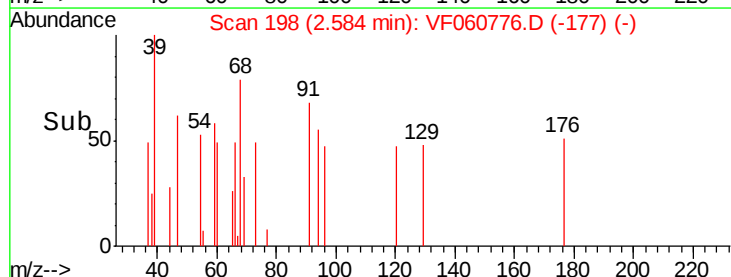
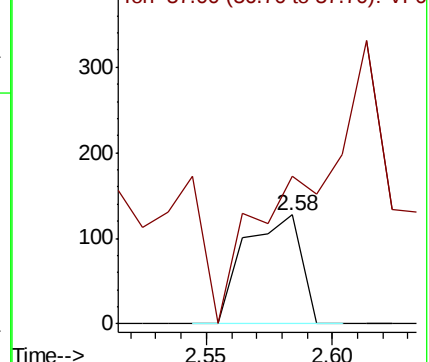
Ion Ratio Lower Upper

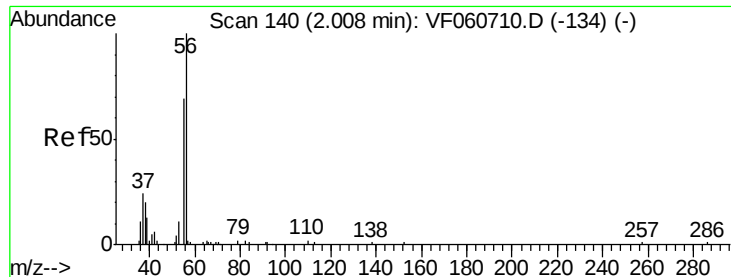
59 100

57 136.2 10.5 15.7#



Abundance Ion 59.00 (58.70 to 59.70): VF0





#13

Acrolein

Concen: 10.115 ug/l

RT: 2.00 min Scan# 139

Delta R.T. -0.01 min

Lab File: VF060776.D

Acq: 16 Nov 2018 20:46

Instrument :

MSVOA_F

ClientSampleId :

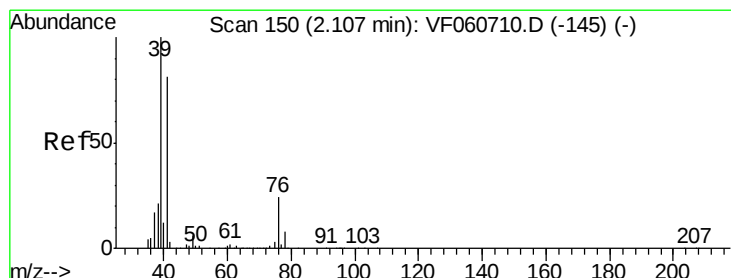
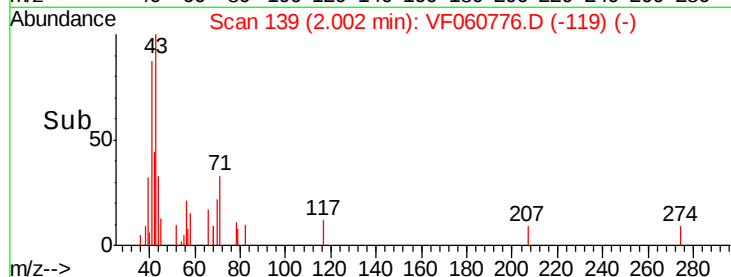
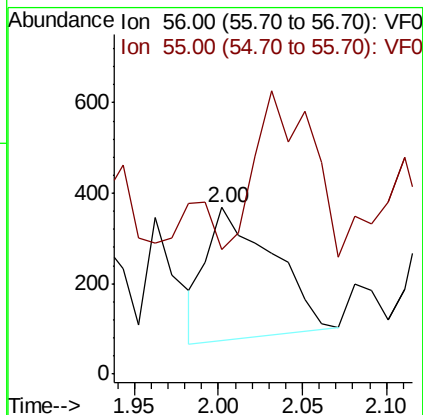
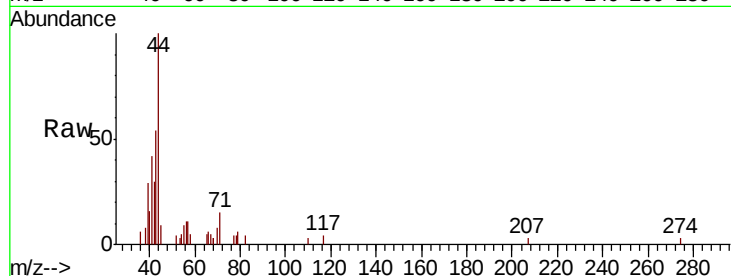
SSI-02

Tot Ion: 56 Resp: 793

Ion Ratio Lower Upper

56 100

55 75.0 56.6 85.0



#14

Allyl chloride

Concen: 3.654 ug/l

RT: 2.18 min Scan# 157

Delta R.T. 0.07 min

Lab File: VF060776.D

Acq: 16 Nov 2018 20:46

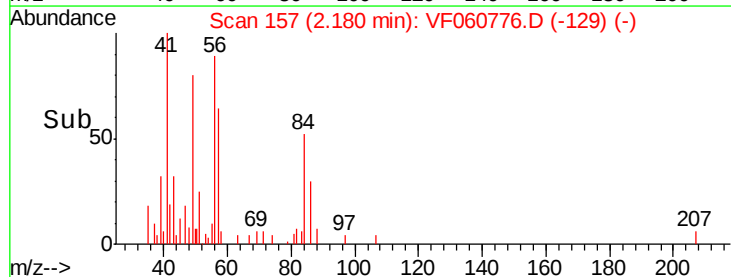
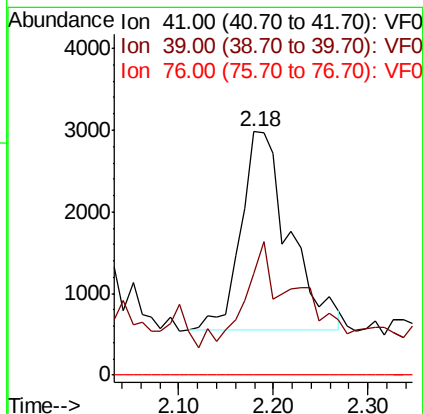
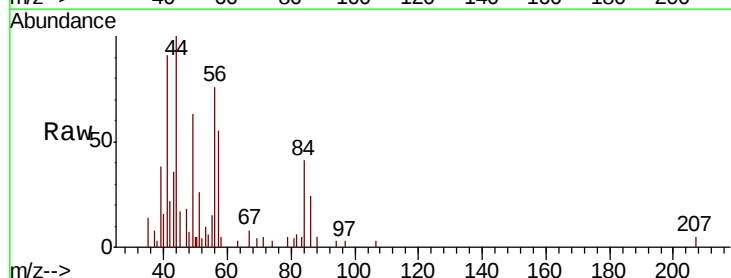
Tgt Ion: 41 Resp: 8627

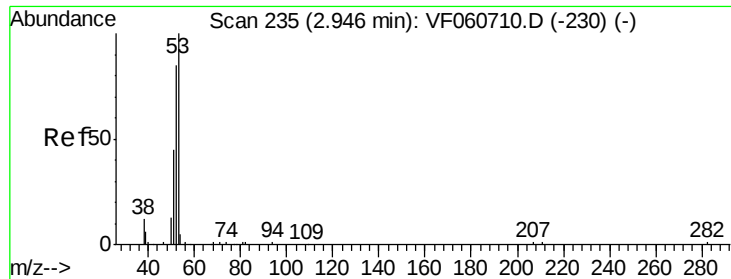
Ion Ratio Lower Upper

41 100

39 42.0 98.5 147.7#

76 0.0 24.5 36.7#

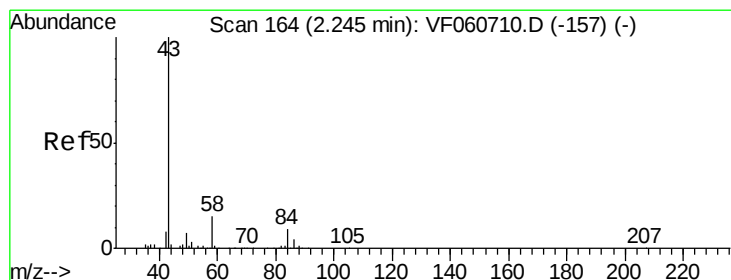
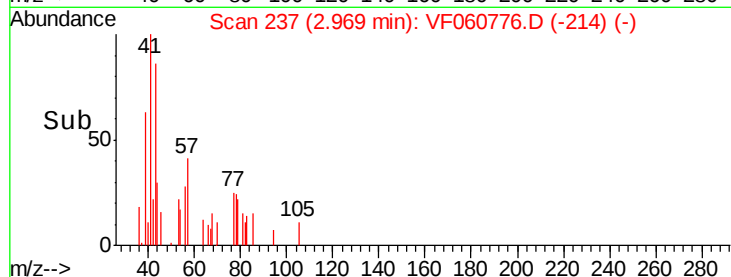
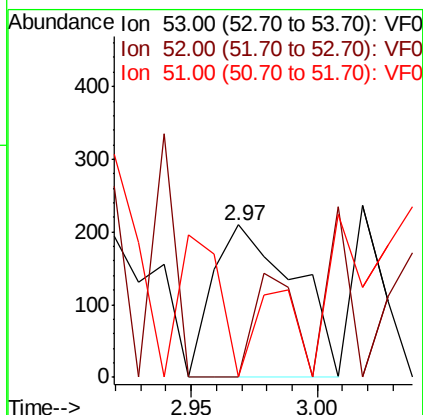
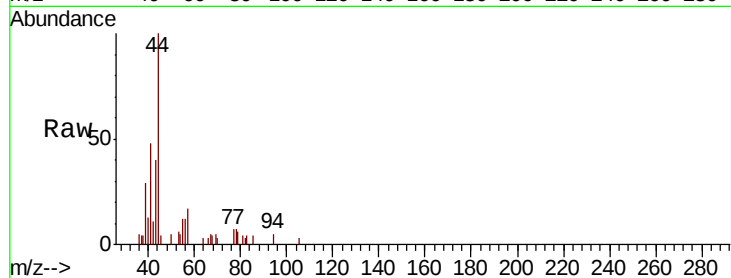




#15
 Acrylonitrile
 Concen: 2.594 ug/l
 RT: 2.97 min Scan# 237
 Delta R.T. 0.02 min
 Lab File: VF060776.D
 Acq: 16 Nov 2018 20:46

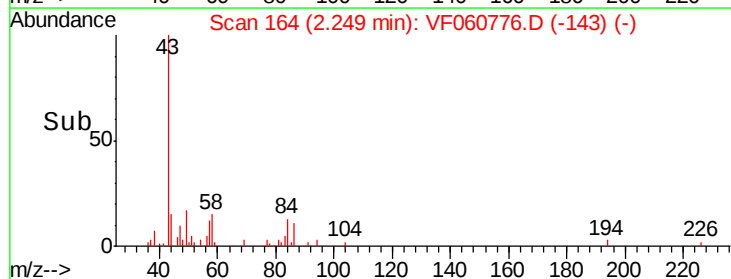
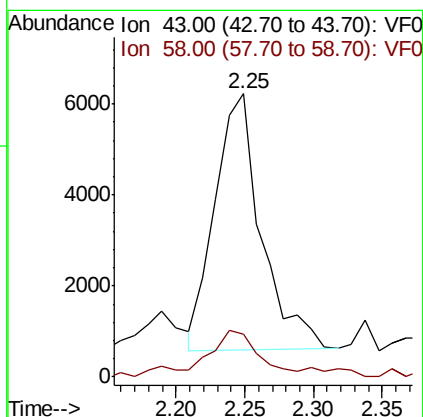
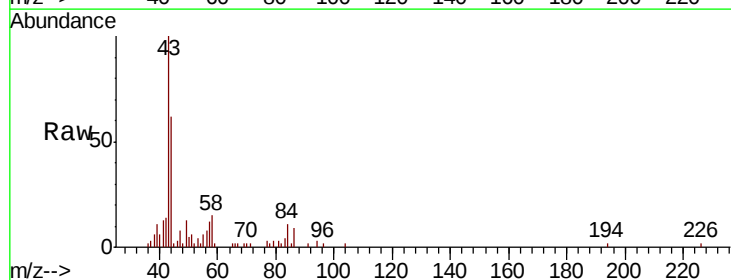
Instrument :
 MSVOA_F
 ClientSampleId :
 SSI-02

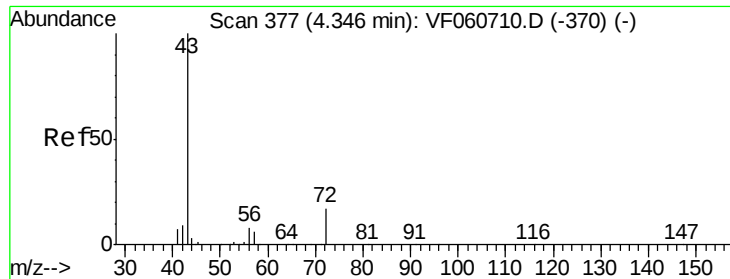
Tot Ion: 53 Resp: 474
 Ion Ratio Lower Upper
 53 100
 52 0.0 68.8 103.2#
 51 0.0 36.7 55.1#



#16
 Acetone
 Concen: 32.626 ug/l
 RT: 2.25 min Scan# 164
 Delta R.T. 0.00 min
 Lab File: VF060776.D
 Acq: 16 Nov 2018 20:46

Tgt Ion: 43 Resp: 13138
 Ion Ratio Lower Upper
 43 100
 58 15.1 11.6 17.4





#25

2-Butanone

Concen: 22.111 ug/l

RT: 4.35 min Scan# 377

Delta R.T. 0.00 min

Lab File: VF060776.D

Acq: 16 Nov 2018 20:46

Instrument :

MSVOA_F

ClientSampleId :

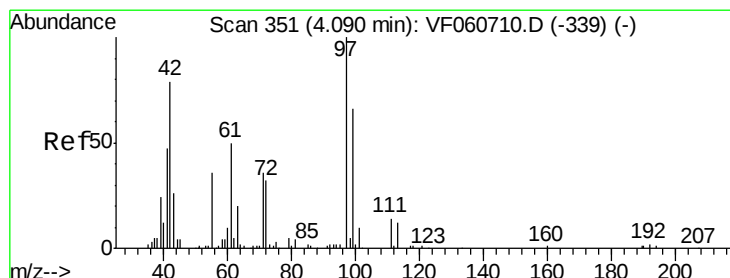
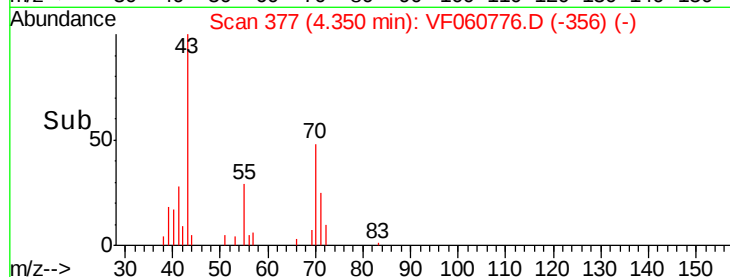
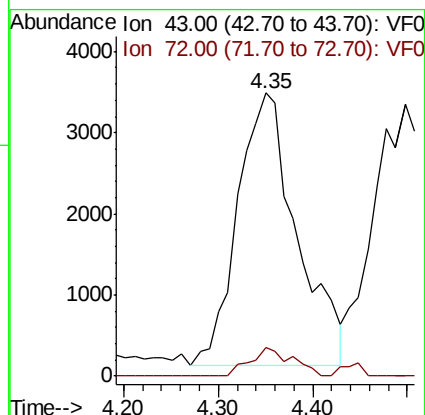
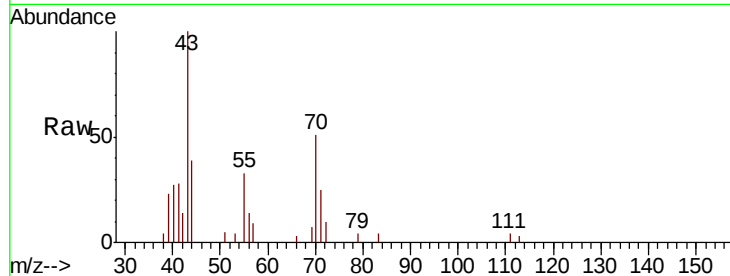
SSI-02

Tot Ion: 43 Resp: 14645

Ion Ratio Lower Upper

43 100

72 10.2 16.1 24.1#



#29

Tetrahydrofuran

Concen: 1.724 ug/l

RT: 4.10 min Scan# 352

Delta R.T. 0.01 min

Lab File: VF060776.D

Acq: 16 Nov 2018 20:46

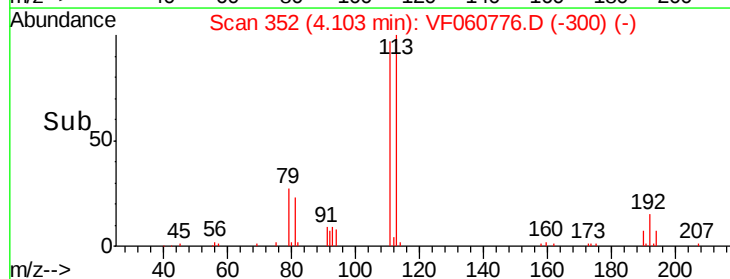
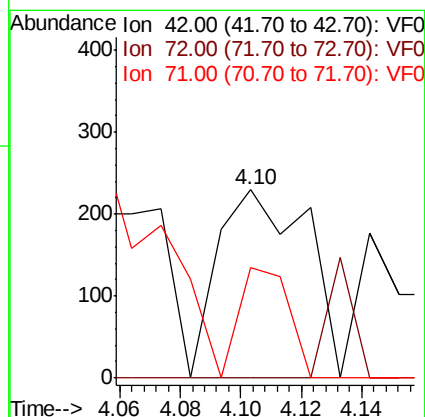
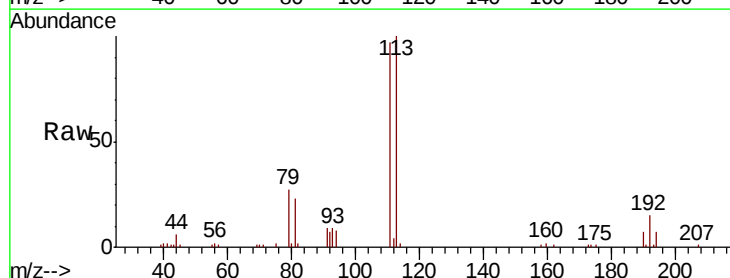
Tgt Ion: 42 Resp: 471

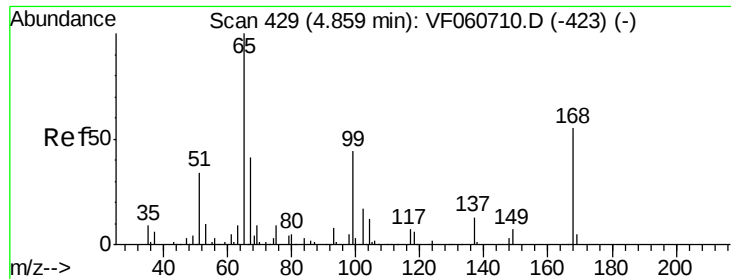
Ion Ratio Lower Upper

42 100

72 0.0 30.3 45.5#

71 0.0 32.2 48.2#





#33

1,2-Dichloroethane-d4

Concen: 42.700 ug/l

RT: 4.85 min Scan# 428

Delta R.T. -0.01 min

Lab File: VF060776.D

Acq: 16 Nov 2018 20:46

Instrument :

MSVOA_F

ClientSampleId :

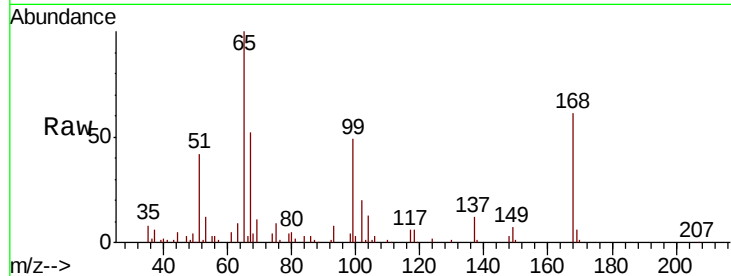
SSI-02

Tot Ion: 65 Resp: 80444

Ion Ratio Lower Upper

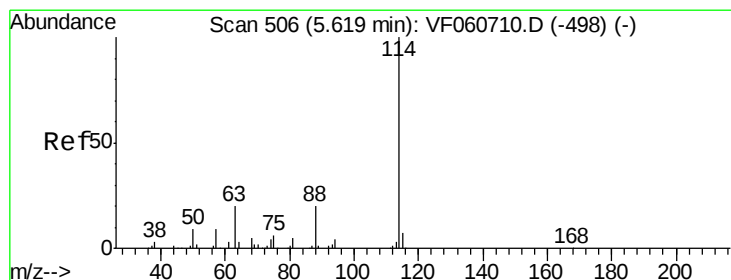
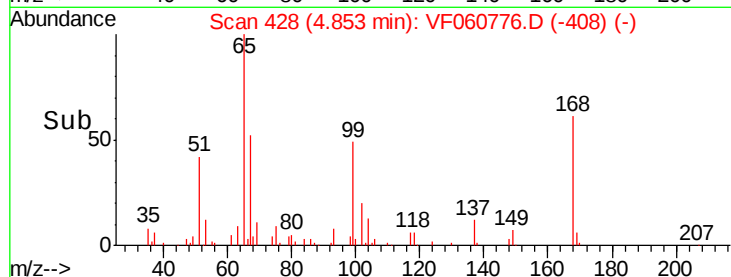
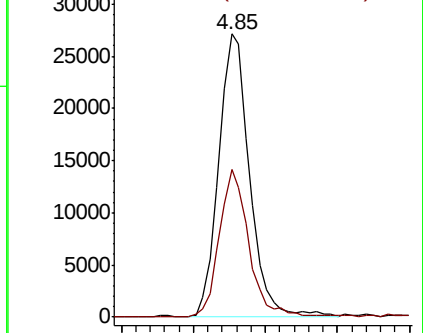
65 100

67 52.1 0.0 90.2



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: 5.61 min Scan# 505

Delta R.T. -0.01 min

Lab File: VF060776.D

Acq: 16 Nov 2018 20:46

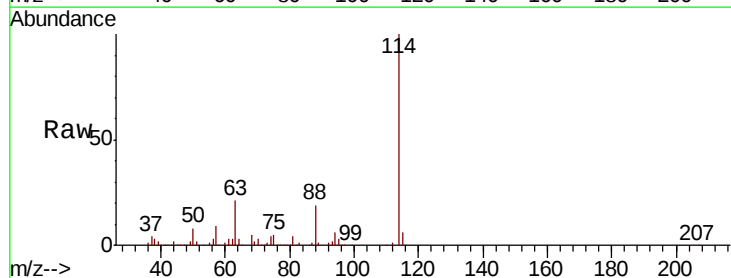
Tgt Ion: 114 Resp: 293564

Ion Ratio Lower Upper

114 100

63 20.9 0.0 40.8

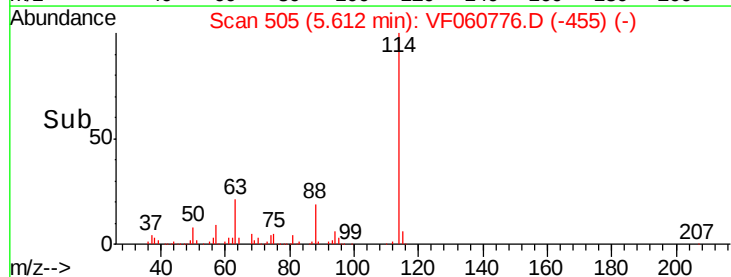
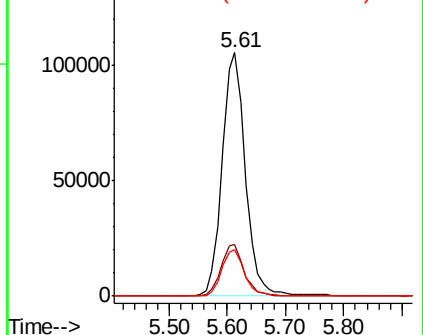
88 19.1 0.0 39.6

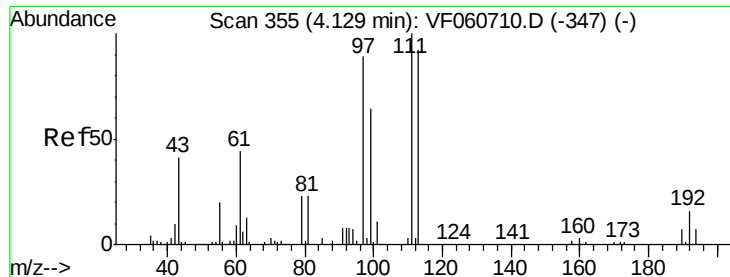


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VF0

Ion 88.00 (87.70 to 88.70): VF0

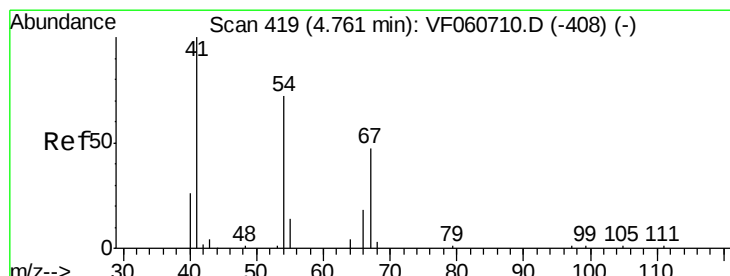
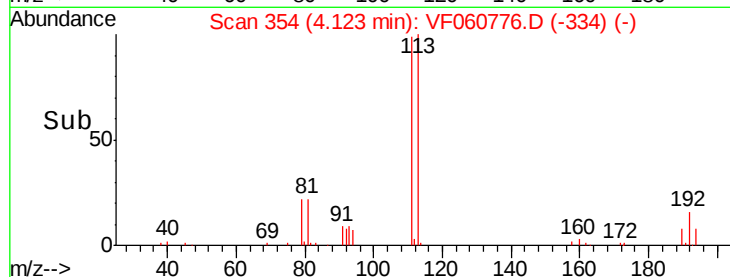
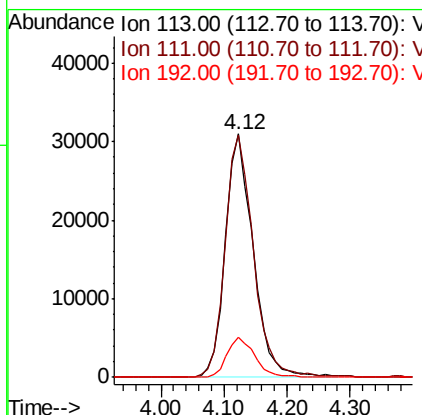
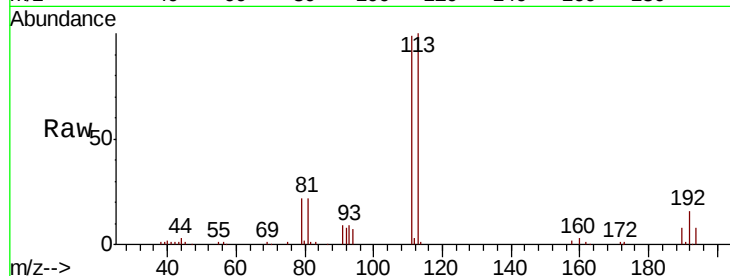




#35
Dibromofluoromethane
Concen: 42.924 ug/l
RT: 4.12 min Scan# 354
Delta R.T. -0.01 min
Lab File: VF060776.D
Acq: 16 Nov 2018 20:46

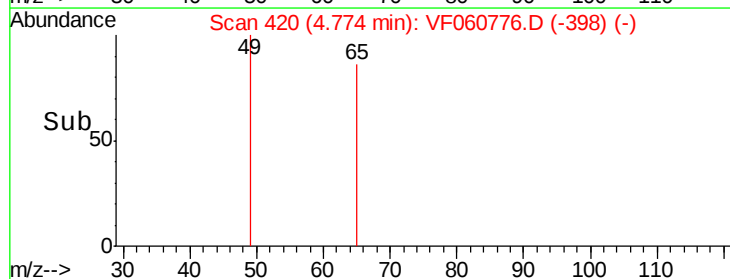
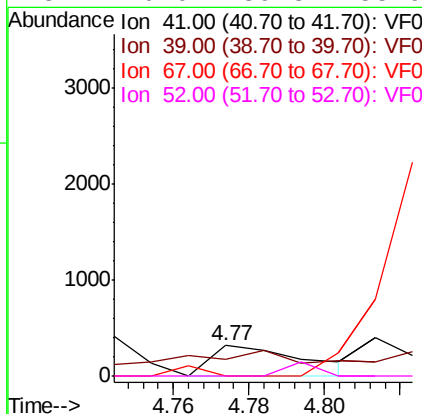
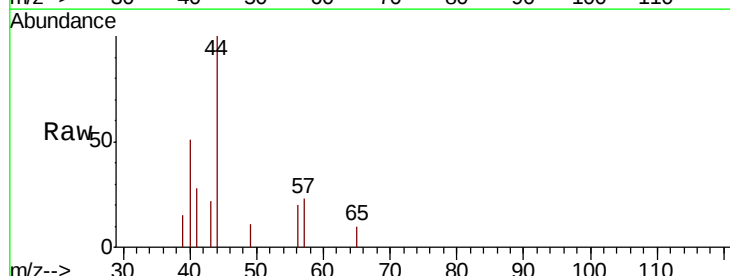
Instrument :
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ClientSampleId :
SSI-02

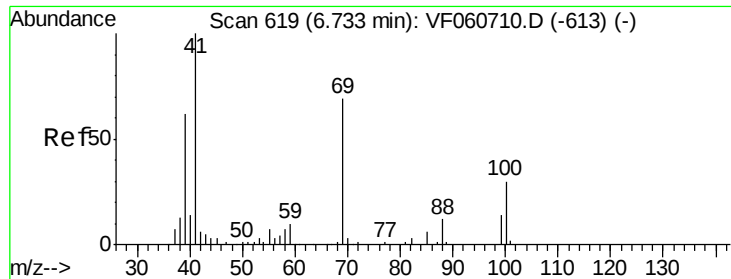
Tot Ion:113 Resp: 94720
Ion Ratio Lower Upper
113 100
111 99.4 87.1 130.7
192 16.7 13.8 20.6



#41
Methacrylonitrile
Concen: Below Cal
RT: 4.77 min Scan# 420
Delta R.T. 0.01 min
Lab File: VF060776.D
Acq: 16 Nov 2018 20:46

Tgt Ion: 41 Resp: 531
Ion Ratio Lower Upper
41 100
39 53.3 47.1 70.7
67 0.0 37.1 55.7#
52 0.0 39.3 58.9#

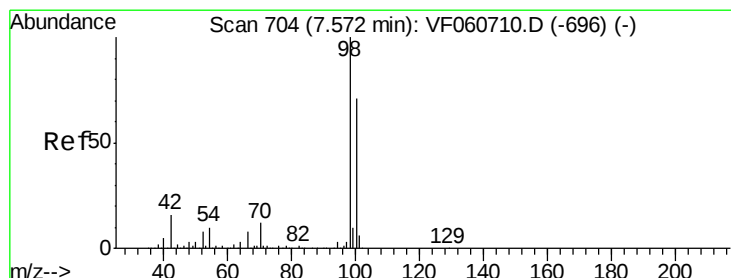
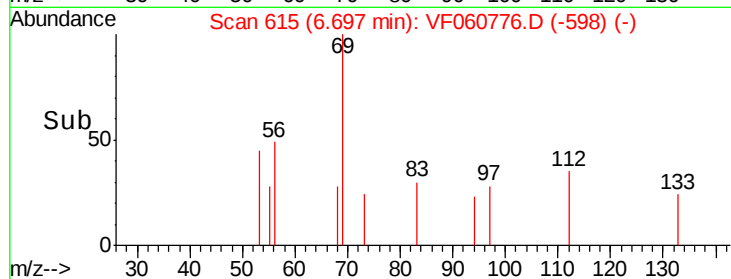
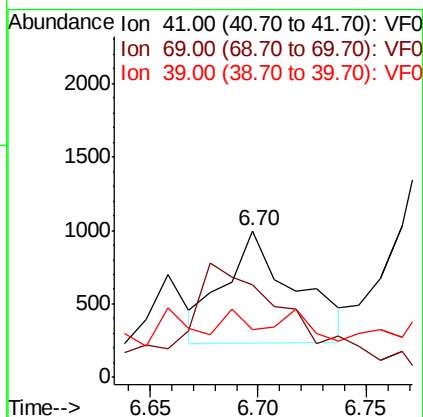
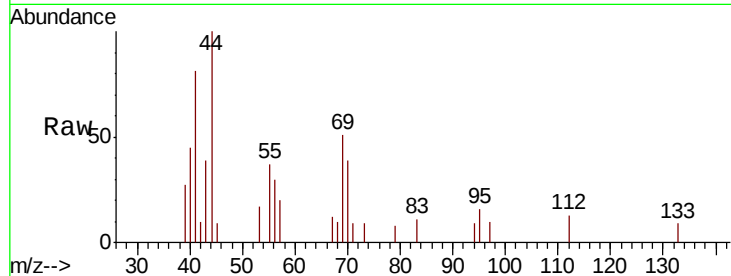




#48
Methyl methacrylate
Concen: 1.549 ug/l
RT: 6.70 min Scan# 615
Delta R.T. -0.04 min
Lab File: VF060776.D
Acq: 16 Nov 2018 20:46

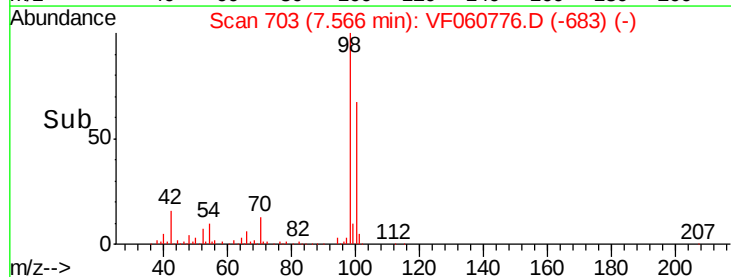
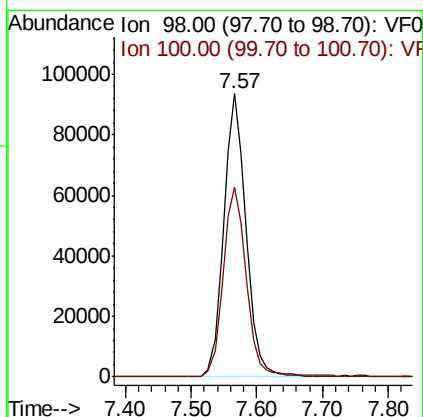
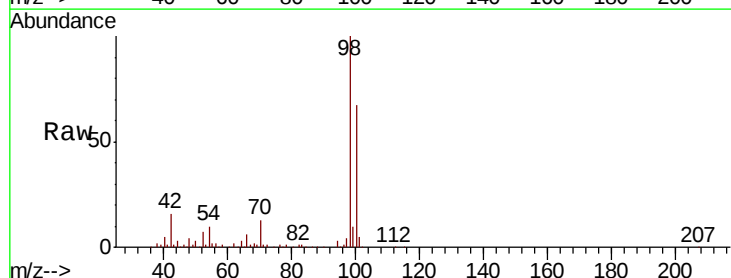
Instrument :
MSVOA_F
ClientSampled :
SSI-02

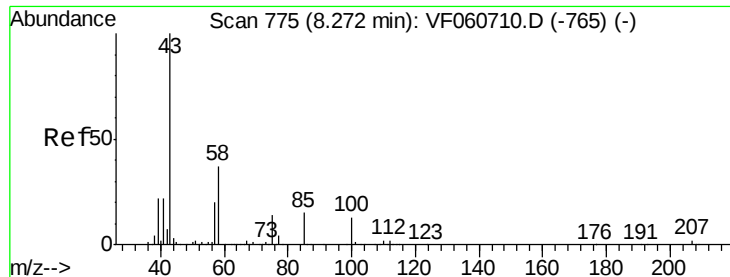
Tot Ion: 41 Resp: 1721
Ion Ratio Lower Upper
41 100
69 63.2 54.9 82.3
39 32.7 49.6 74.4#



#50
Toluene-d8
Concen: 38.579 ug/l
RT: 7.57 min Scan# 703
Delta R.T. -0.01 min
Lab File: VF060776.D
Acq: 16 Nov 2018 20:46

Tgt Ion: 98 Resp: 223212
Ion Ratio Lower Upper
98 100
100 67.2 56.5 84.7





#51

4-Methyl-2-Pentanone

Concen: 2.799 ug/l

RT: 8.30 min Scan# 777

Delta R.T. 0.02 min

Lab File: VF060776.D

Acq: 16 Nov 2018 20:46

Instrument :

MSVOA_F

ClientSampleId :

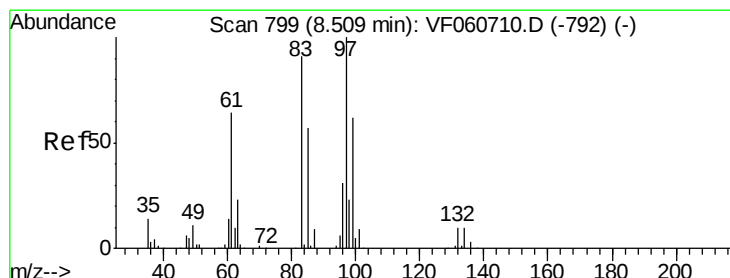
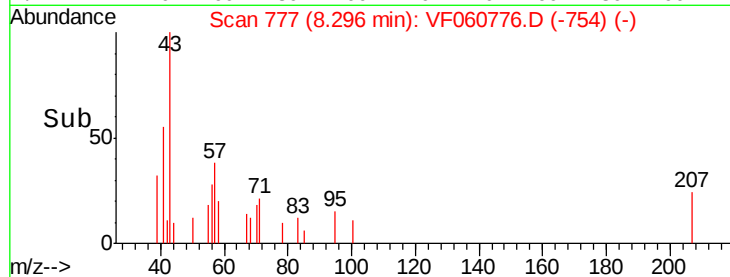
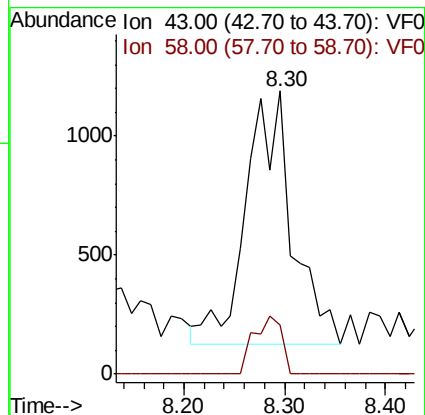
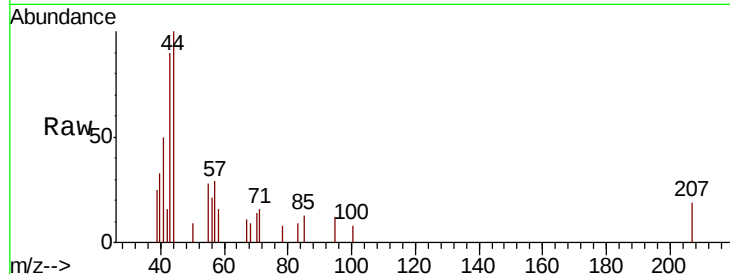
SSI-02

Tot Ion: 43 Resp: 3397

Ion Ratio Lower Upper

43 100

58 17.3 29.2 43.8#



#55

1,1,2-Trichloroethane

Concen: 1.666 ug/l

RT: 8.40 min Scan# 788

Delta R.T. -0.11 min

Lab File: VF060776.D

Acq: 16 Nov 2018 20:46

Tgt Ion: 97 Resp: 2421

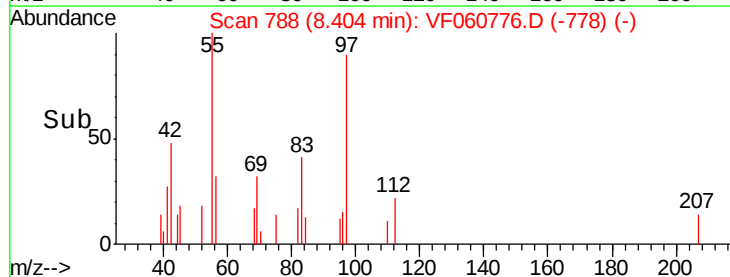
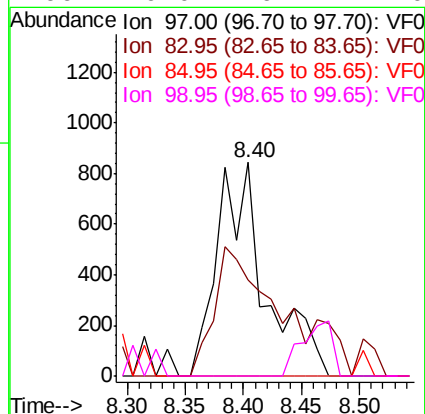
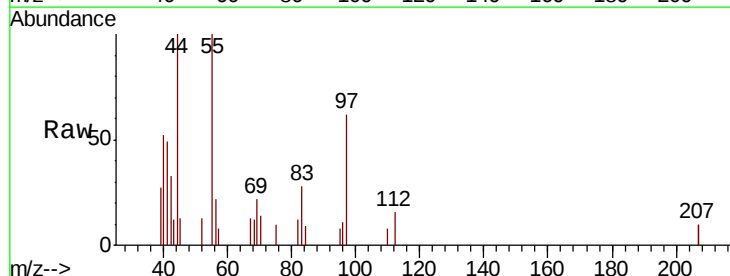
Ion Ratio Lower Upper

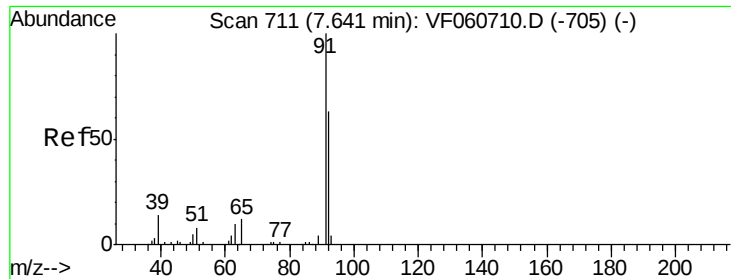
97 100

83 45.3 72.8 109.2#

85 0.0 45.8 68.6#

99 0.0 49.4 74.0#

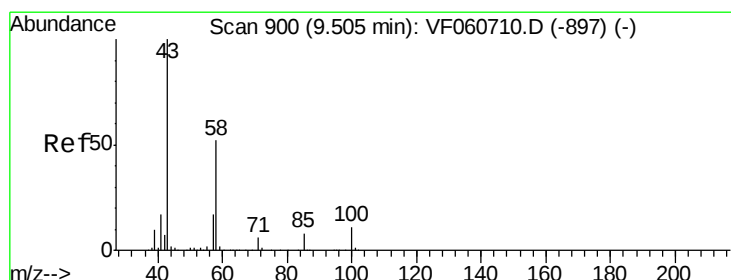
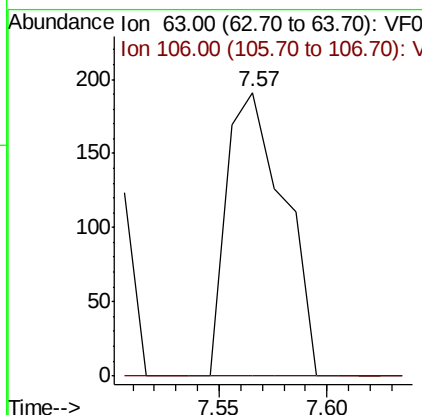
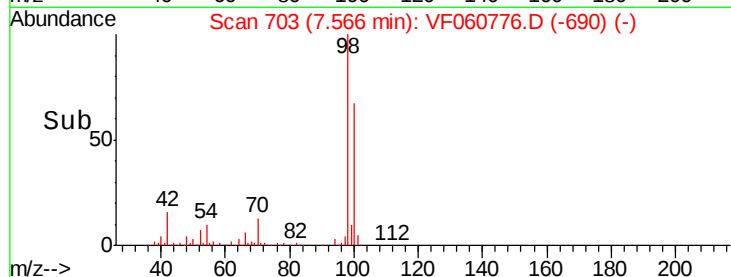
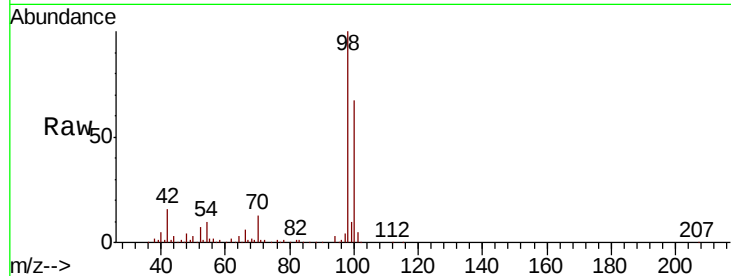




#58
 2-Chloroethyl Vinyl ether
 Concen: 2.342 ug/l
 RT: 7.57 min Scan# 703
 Delta R.T. -0.08 min
 Lab File: VF060776.D
 Acq: 16 Nov 2018 20:46

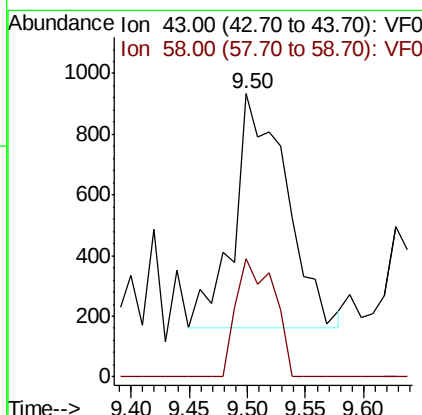
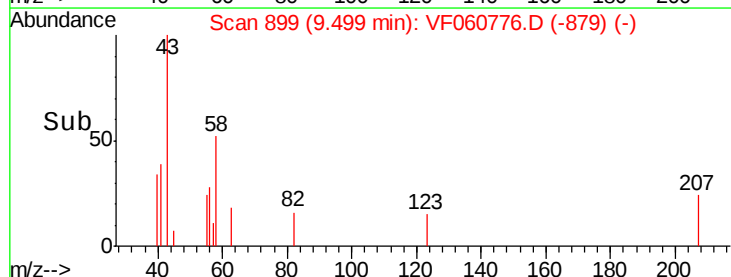
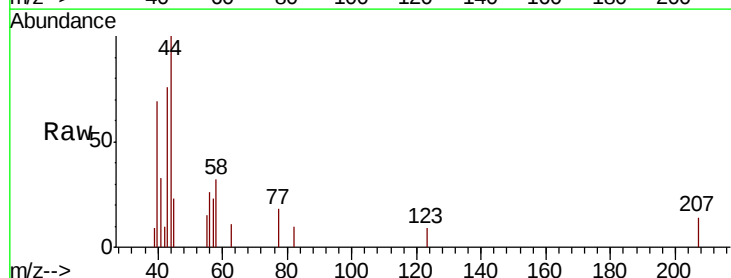
Instrument :
 MSVOA_F
 ClientSampleId :
 SSI-02

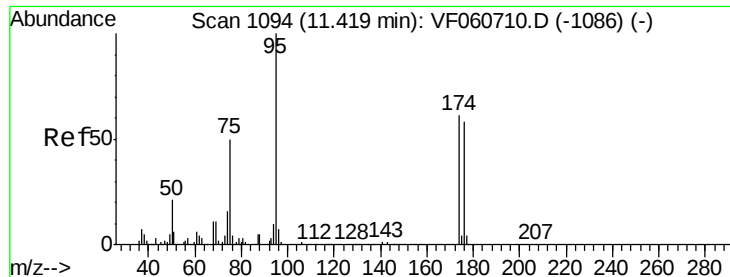
Tot Ion: 63 Resp: 353
 Ion Ratio Lower Upper
 63 100
 106 0.0 0.0 0.0



#59
 2-Hexanone
 Concen: 2.826 ug/l
 RT: 9.50 min Scan# 899
 Delta R.T. -0.01 min
 Lab File: VF060776.D
 Acq: 16 Nov 2018 20:46

Tgt Ion: 43 Resp: 2411
 Ion Ratio Lower Upper
 43 100
 58 41.7 24.9 74.7

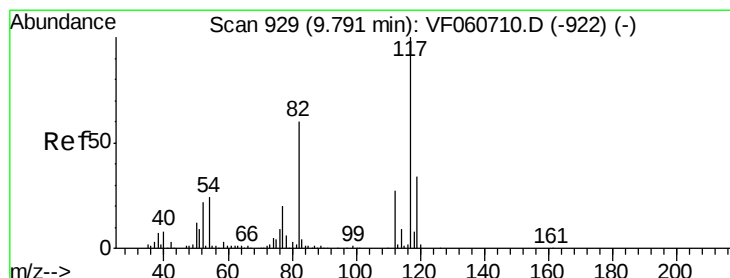
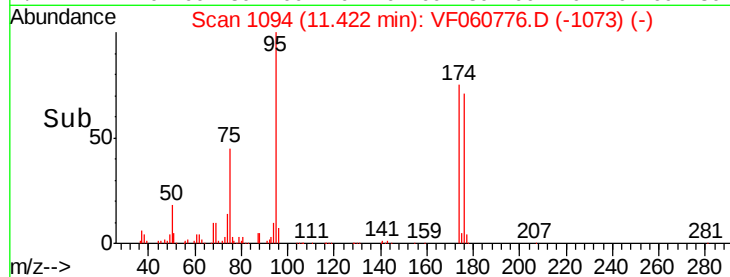
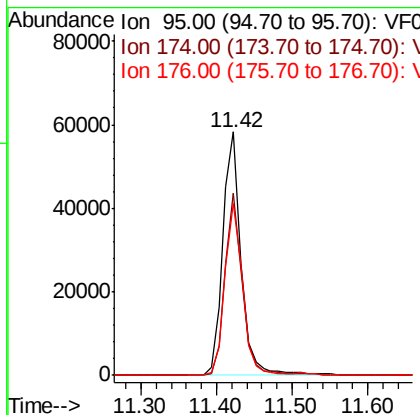
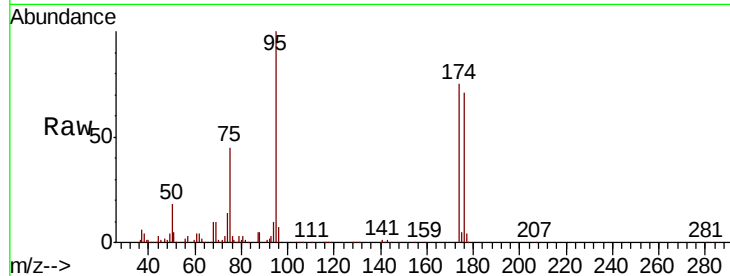




#62
4-Bromofluorobenzene
Concen: 36.852 ug/l
RT: 11.42 min Scan# 1094
Delta R.T. 0.00 min
Lab File: VF060776.D
Acq: 16 Nov 2018 20:46

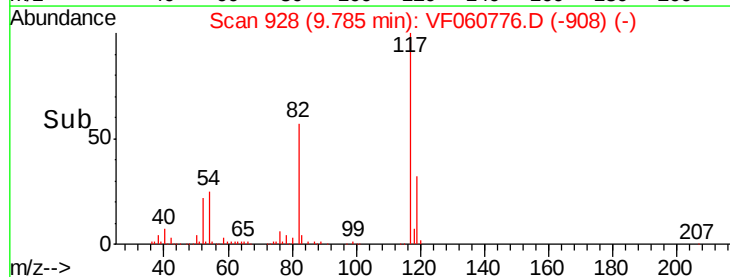
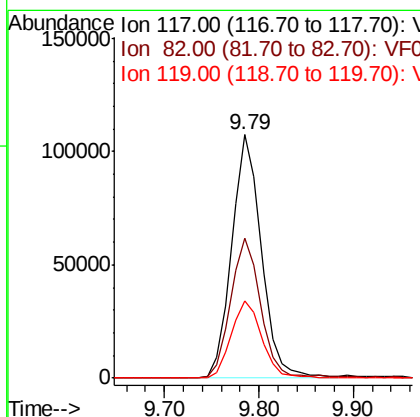
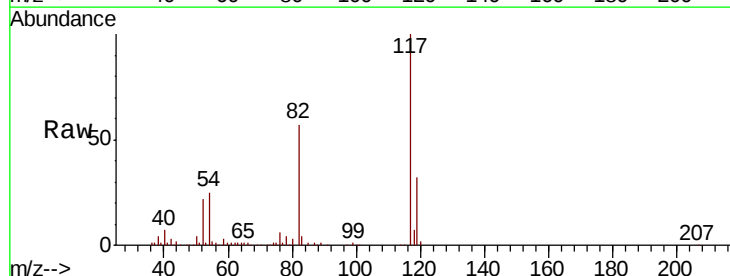
Instrument :
MSVOA_F
ClientSampleId :
SSI-02

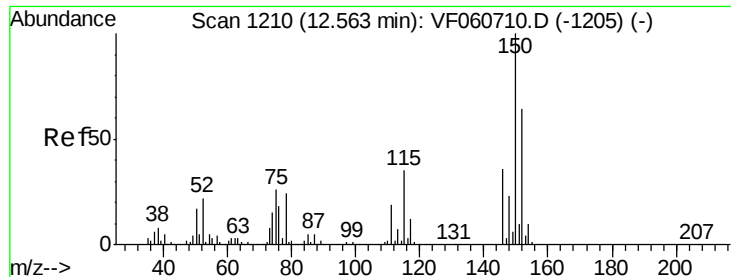
Tot Ion: 95 Resp: 99013
Ion Ratio Lower Upper
95 100
174 74.7 0.0 121.6
176 70.6 0.0 115.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.79 min Scan# 928
Delta R.T. -0.01 min
Lab File: VF060776.D
Acq: 16 Nov 2018 20:46

Tgt Ion: 117 Resp: 233923
Ion Ratio Lower Upper
117 100
82 57.4 47.9 71.9
119 31.9 26.8 40.2





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.56 min Scan# 1209

Delta R.T. -0.01 min

Lab File: VF060776.D

Acq: 16 Nov 2018 20:46

Instrument :

MSVOA_F

ClientSampleId :

SSI-02

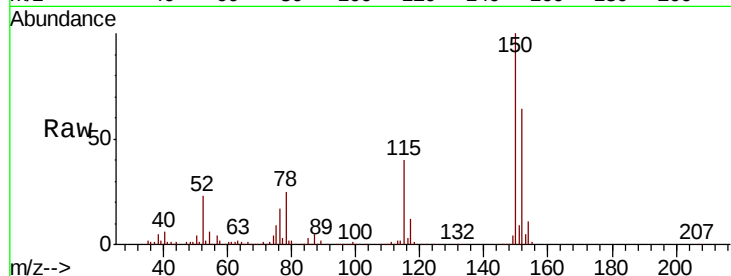
Tot Ion:152 Resp: 117818

Ion Ratio Lower Upper

152 100

115 61.9 27.9 83.7

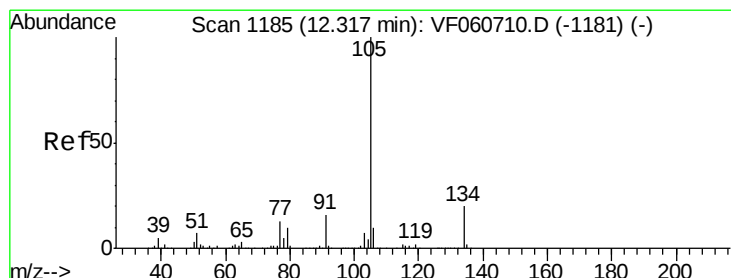
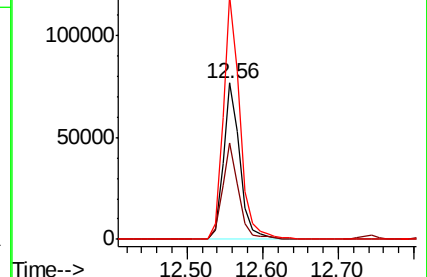
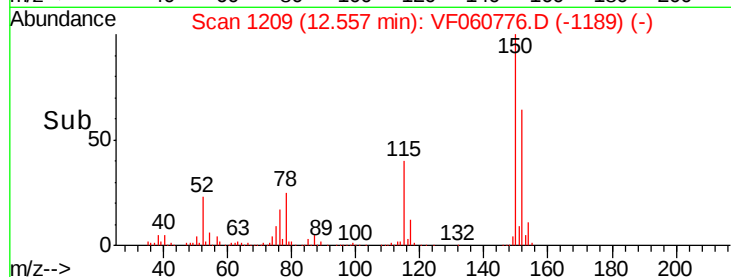
150 156.0 0.0 316.4



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



#85

sec-Butylbenzene

Concen: 1.916 ug/l

RT: 12.31 min Scan# 1184

Delta R.T. -0.01 min

Lab File: VF060776.D

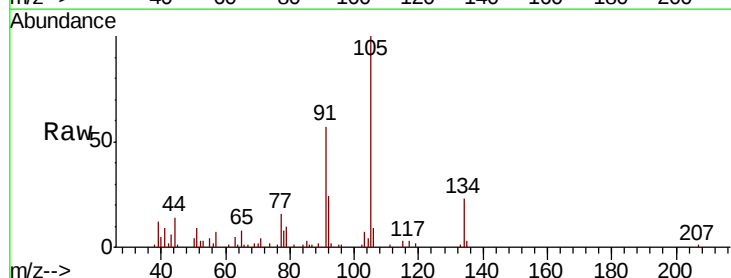
Acq: 16 Nov 2018 20:46

Tgt Ion:105 Resp: 20778

Ion Ratio Lower Upper

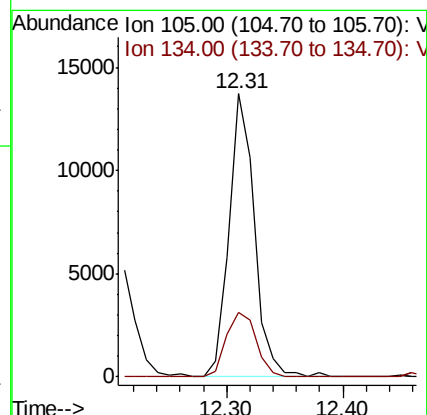
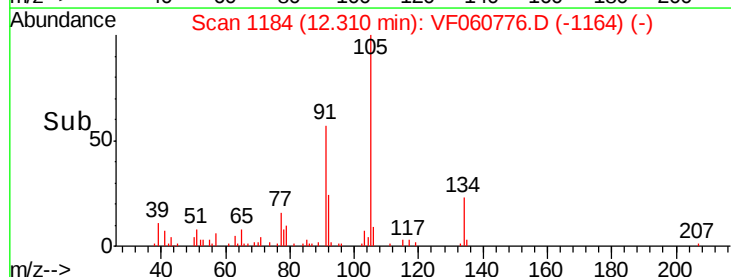
105 100

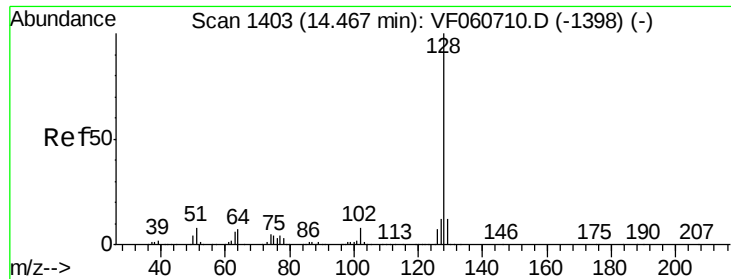
134 22.8 10.1 30.3



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V





#95
Naphthalene
Concen: 1.293 ug/l
RT: 14.46 min Scan# 1402
Delta R.T. -0.01 min
Lab File: VF060776.D
Acq: 16 Nov 2018 20:46

Instrument :
MSVOA_F
ClientSampleId :
SSI-02

Tot Ion	Ratio	Lower	Upper
128	100		
127	18.2	9.8	14.6#
129	26.4	9.3	13.9#

