

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF072018\
 Data File : VF059596.D
 Acq On : 20 Jul 2018 22:22
 Operator : VA/AP
 Sample : J3828-07
 Misc : 6.83g/5mL/MSVOA F/SOIL
 ALS Vial : 91 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :

Quant Time: Jul 20 23:29:04 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F071718S.M
 Quant Title : SW846 8260
 QLast Update : Wed Jul 18 04:09:10 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.03	168	208239	50.00	ug/l	-0.02
34) 1,4-Difluorobenzene	5.76	114	286810	50.00	ug/l	-0.02
63) Chlorobenzene-d5	9.91	117	274041	50.00	ug/l	-0.02
72) 1,4-Dichlorobenzene-d4	12.63	152	134810	50.00	ug/l	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.01	65	124611	38.48	ug/l	-0.02
Spiked Amount			Recovery	=	76.96%	
35) Dibromofluoromethane	4.29	113	105691	42.55	ug/l	-0.02
Spiked Amount			Recovery	=	85.10%	
50) Toluene-d8	7.71	98	203157	32.47	ug/l	-0.02
Spiked Amount			Recovery	=	64.94%	
62) 4-Bromofluorobenzene	11.51	95	110398	33.63	ug/l	-0.01
Spiked Amount			Recovery	=	67.26%	

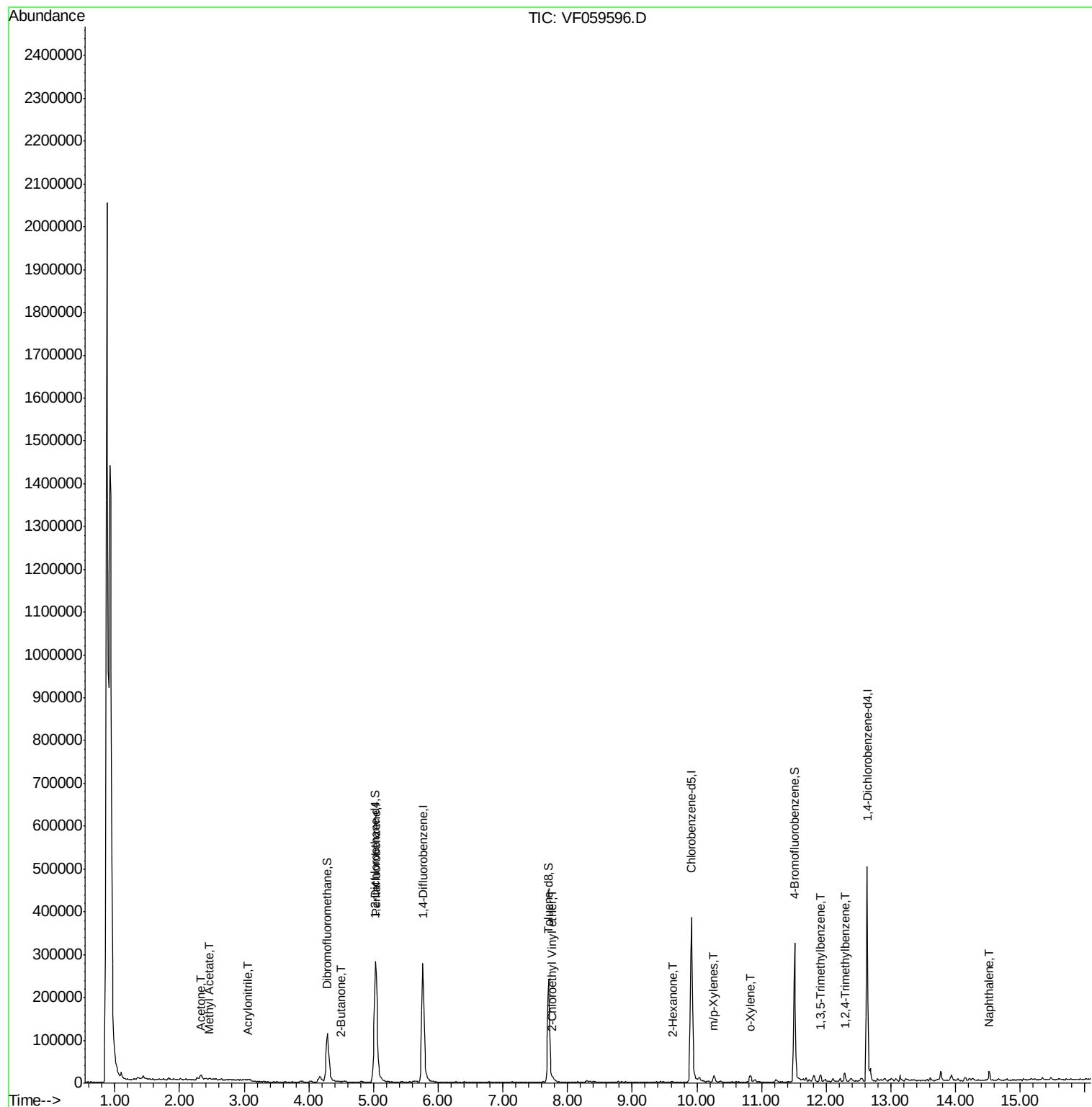
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	2.67	59	700	Below Cal	#	74
13) Acrolein	2.08	56	562	Below Cal	#	1
15) Acrylonitrile	3.06	53	464	1.708	ug/l #	79
16) Acetone	2.33	43	15753	5.624	ug/l	94
18) Methyl Acetate	2.44	43	5432	2.629	ug/l #	92
20) Methylene Chloride	2.33	84	157	Below Cal	#	11
25) 2-Butanone	4.51	43	2478	3.296	ug/l #	60
29) Tetrahydrofuran	4.27	42	100	Below Cal	#	1
37) Ethyl Acetate	4.25	43	288	Below Cal	#	41
49) 1,4-Dioxane	6.97	88	64	Below Cal	#	15
58) 2-Chloroethyl Vinyl ether	7.76	63	451	2.632	ug/l	100
59) 2-Hexanone	9.64	43	1747	1.581	ug/l	96
68) m/p-Xylenes	10.26	106	5472	1.695	ug/l	83
69) o-Xylene	10.83	106	4377	1.273	ug/l	95
80) 1,3,5-Trimethylbenzene	11.91	105	8985	1.261	ug/l	91
84) 1,2,4-Trimethylbenzene	12.29	105	10252	1.398	ug/l	94
95) Naphthalene	14.52	128	12768	2.585	ug/l	96

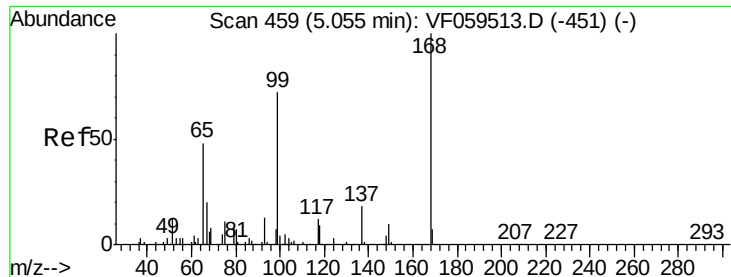
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.03 min Scan# 457

Delta R.T. -0.02 min

Lab File: VF059596.D

Acq: 20 Jul 2018 22:22

Instrument :

MSVOA_F

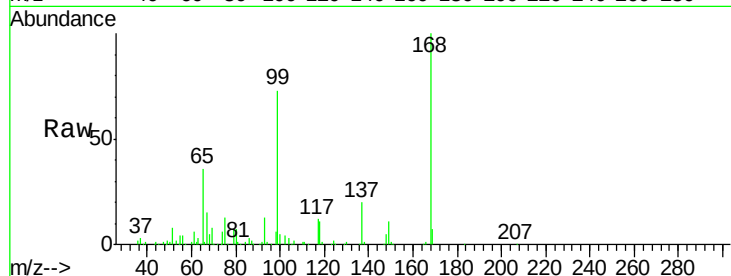
ClientSampleId :

Tot Ion:168 Resp: 208239

Ion Ratio Lower Upper

168 100

99 72.7 57.6 86.4



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

5.03

60000

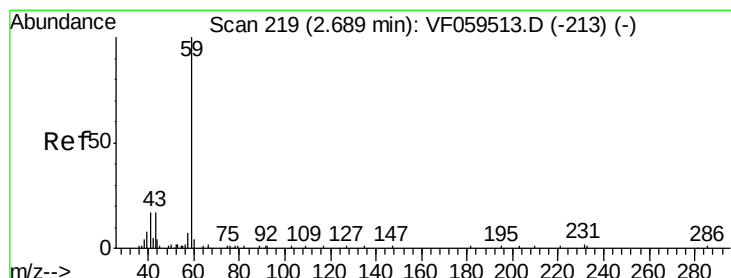
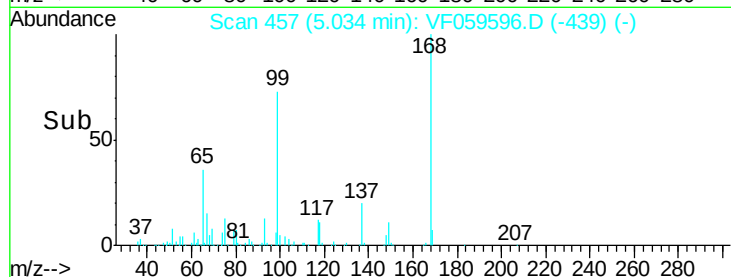
40000

20000

0

Time-->

4.90 5.00 5.10 5.20



#11

Tert butyl alcohol

Concen: Below Cal

RT: 2.67 min Scan# 217

Delta R.T. -0.02 min

Lab File: VF059596.D

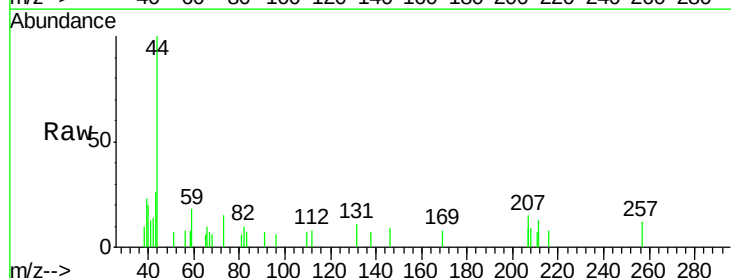
Acq: 20 Jul 2018 22:22

Tgt Ion: 59 Resp: 700

Ion Ratio Lower Upper

59 100

57 0.0 7.7 11.5#



Abundance Ion 59.00 (58.70 to 59.70): VF0

Ion 57.00 (56.70 to 57.70): VF0

2.67

300

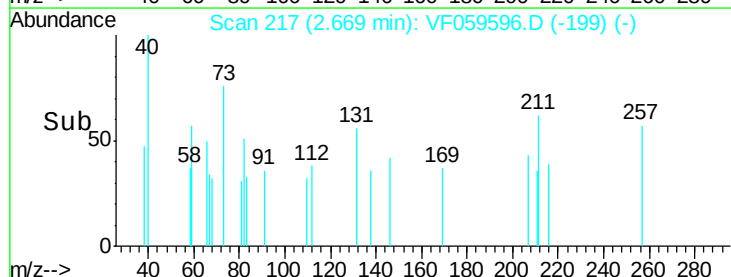
200

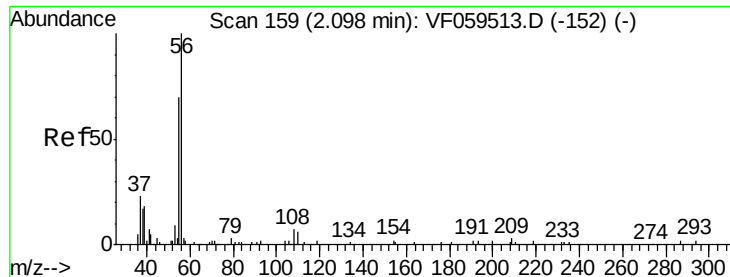
100

0

Time-->

2.60 2.65 2.70

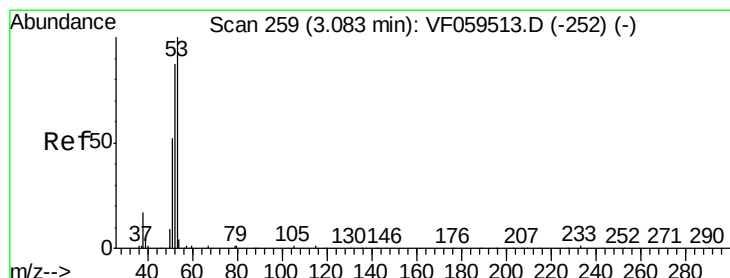
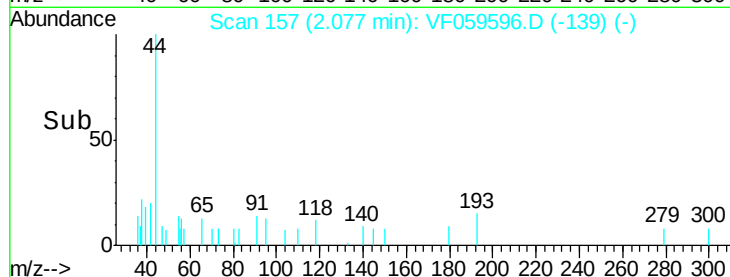
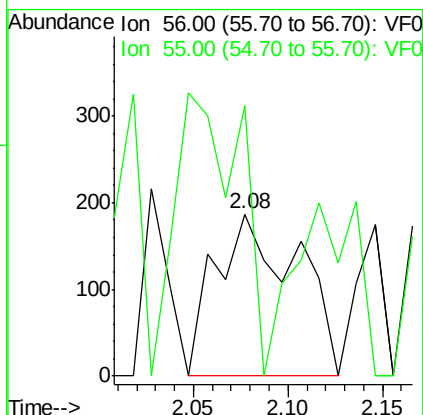
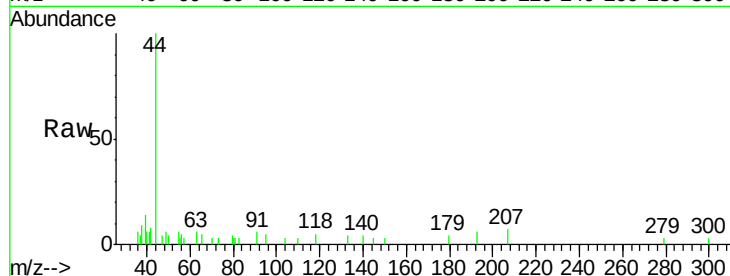




#13
Acrolein
Concen: Below Cal
RT: 2.08 min Scan# 157
Delta R.T. -0.02 min
Lab File: VF059596.D
Acq: 20 Jul 2018 22:22

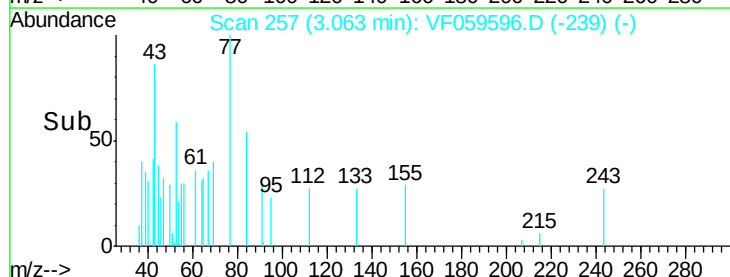
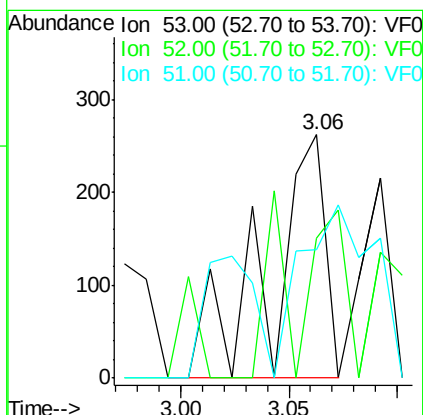
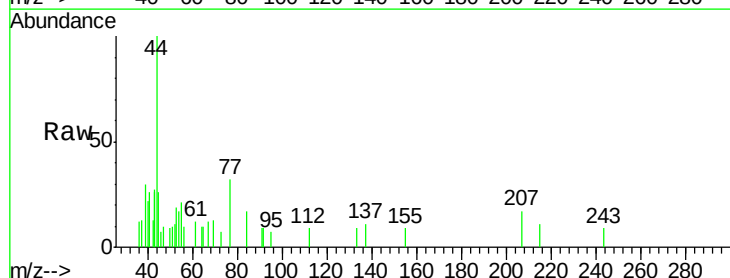
Instrument :
MSVOA_F
ClientSampleId :

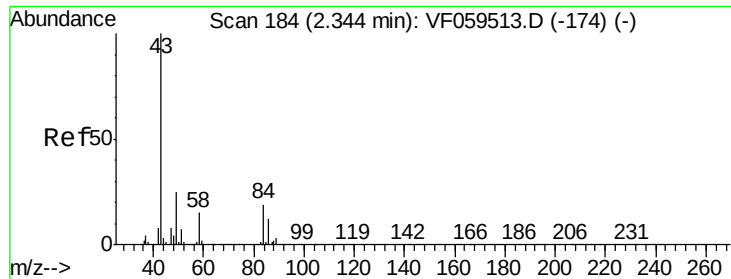
Tot Ion: 56 Resp: 562
Ion Ratio Lower Upper
56 100
55 166.8 59.4 89.2#



#15
Acrylonitrile
Concen: 1.708 ug/l
RT: 3.06 min Scan# 257
Delta R.T. -0.02 min
Lab File: VF059596.D
Acq: 20 Jul 2018 22:22

Tgt Ion: 53 Resp: 464
Ion Ratio Lower Upper
53 100
52 57.3 70.1 105.1#
51 52.7 42.5 63.7

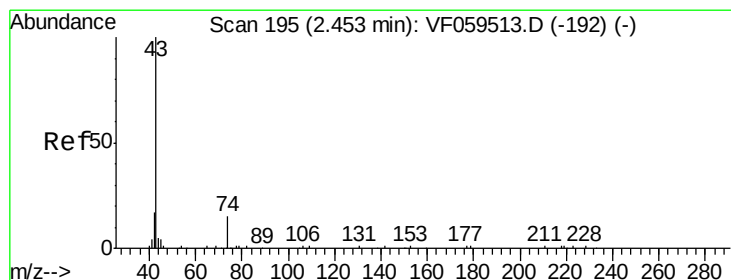
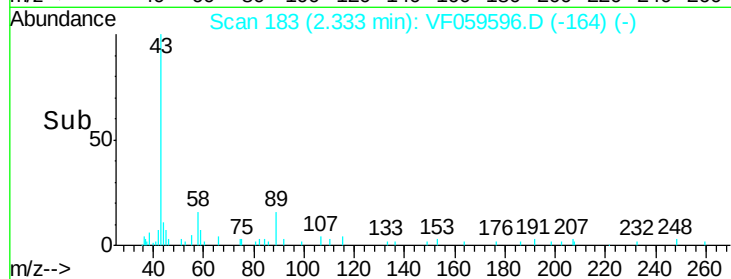
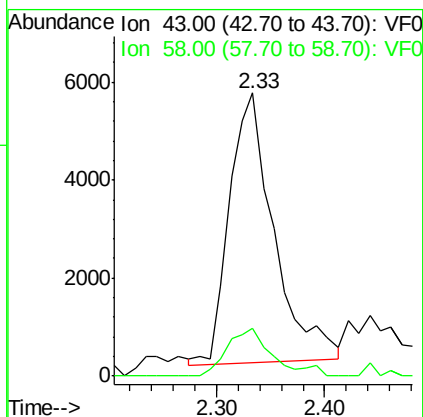
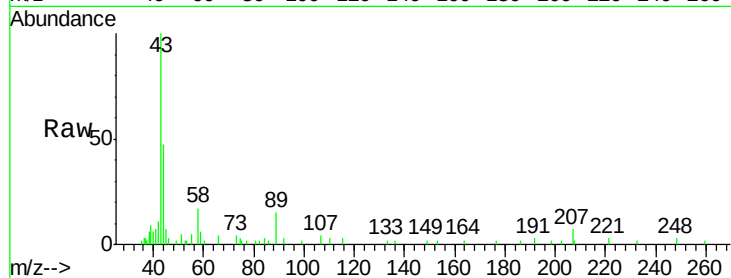




#16
Acetone
Concen: 5.624 ug/l
RT: 2.33 min Scan# 183
Delta R.T. -0.01 min
Lab File: VF059596.D
Acq: 20 Jul 2018 22:22

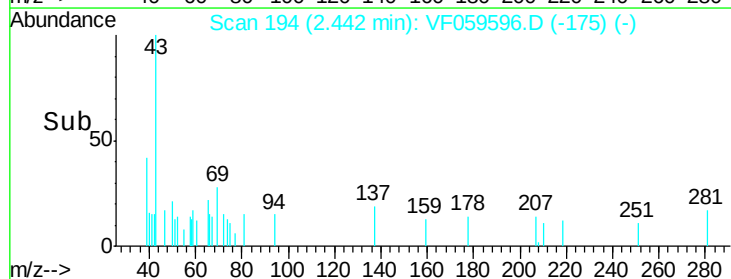
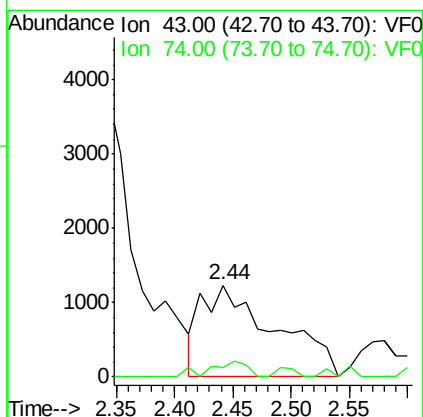
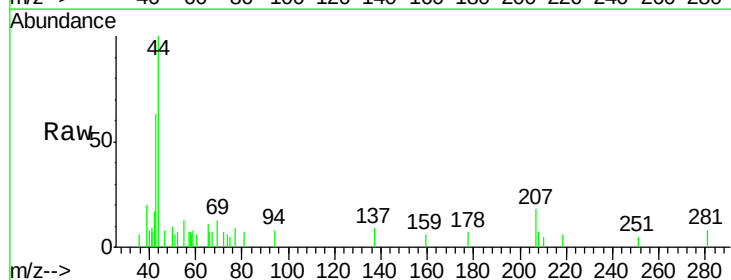
Instrument :
MSVOA_F
ClientSampleId :

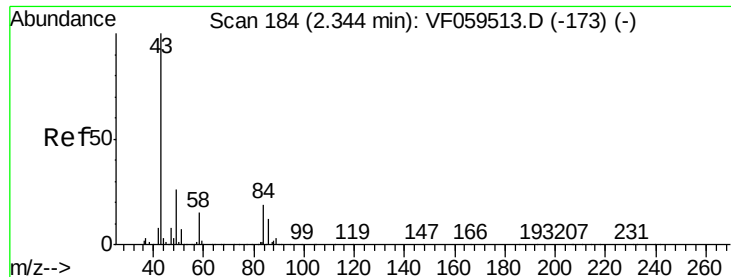
Tot Ion: 43 Resp: 15753
Ion Ratio Lower Upper
43 100
58 17.1 11.8 17.6



#18
Methyl Acetate
Concen: 2.629 ug/l
RT: 2.44 min Scan# 194
Delta R.T. -0.01 min
Lab File: VF059596.D
Acq: 20 Jul 2018 22:22

Tgt Ion: 43 Resp: 5432
Ion Ratio Lower Upper
43 100
74 10.1 10.6 15.8#

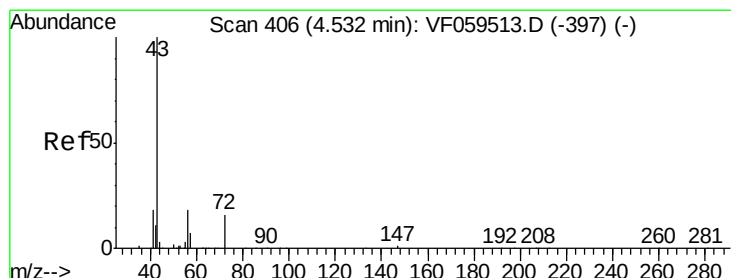
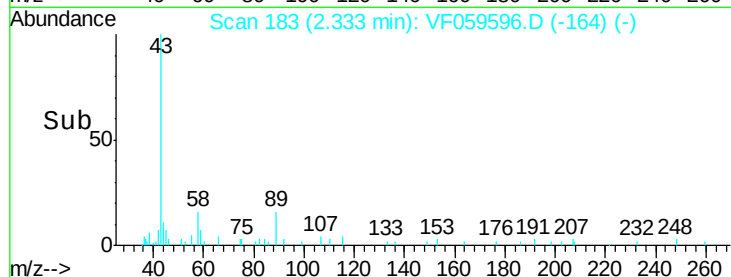
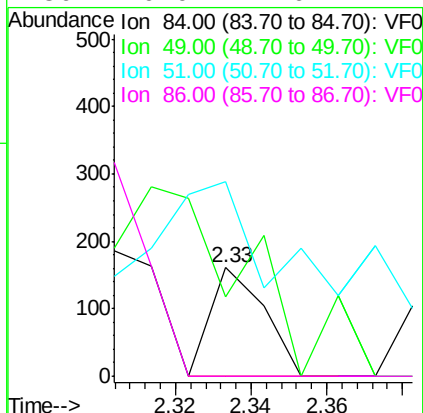
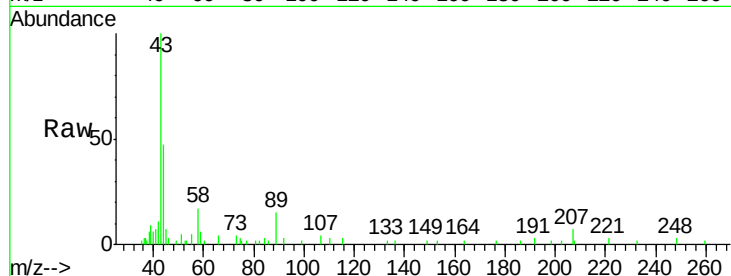




#20
Methylene Chloride
Concen: Below Cal
RT: 2.33 min Scan# 183
Delta R.T. -0.01 min
Lab File: VF059596.D
Acq: 20 Jul 2018 22:22

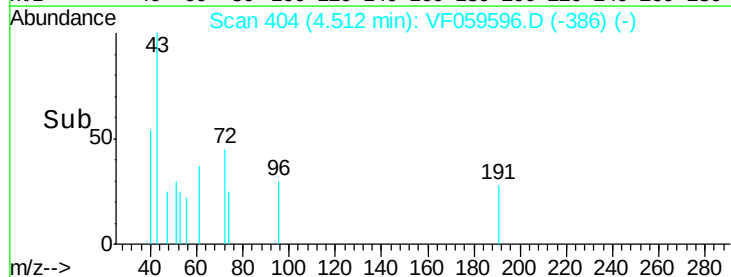
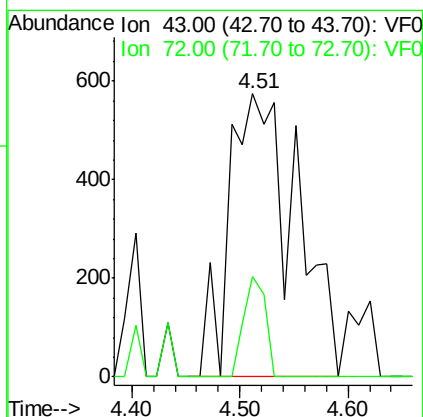
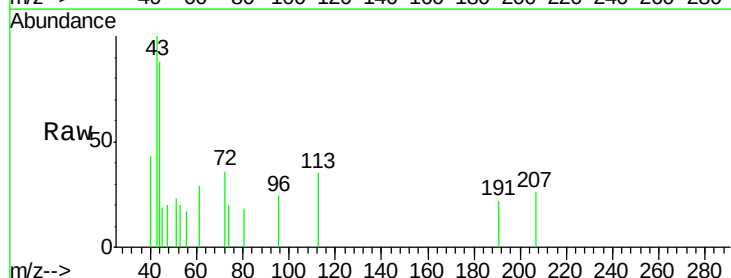
Instrument :
MSVOA_F
ClientSampled :

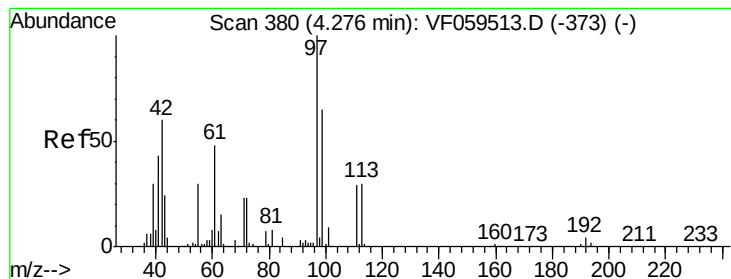
Tot Ion: 84 Resp: 157
Ion Ratio Lower Upper
84 100
49 73.3 109.4 164.2#
51 179.5 30.5 45.7#
86 0.0 47.6 71.4#



#25
2-Butanone
Concen: 3.296 ug/l
RT: 4.51 min Scan# 404
Delta R.T. -0.02 min
Lab File: VF059596.D
Acq: 20 Jul 2018 22:22

Tgt Ion: 43 Resp: 2478
Ion Ratio Lower Upper
43 100
72 35.5 14.2 21.4#





#29

Tetrahydrofuran

Concen: Below Cal

RT: 4.27 min Scan# 379

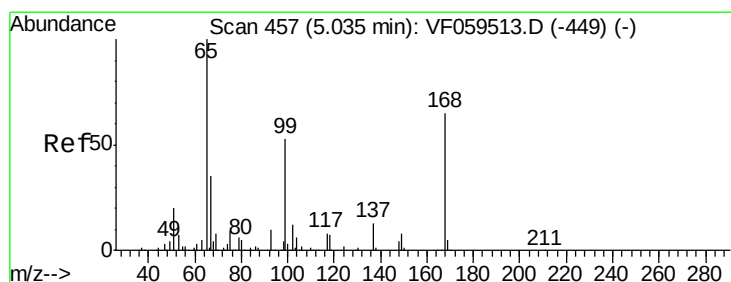
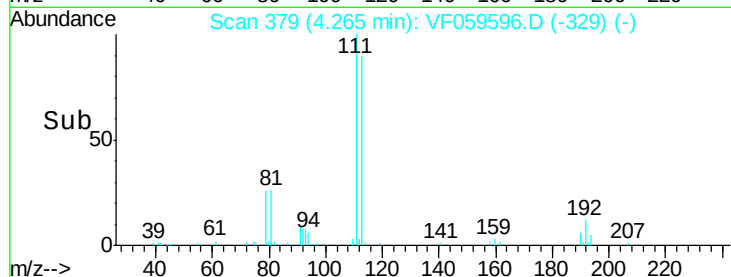
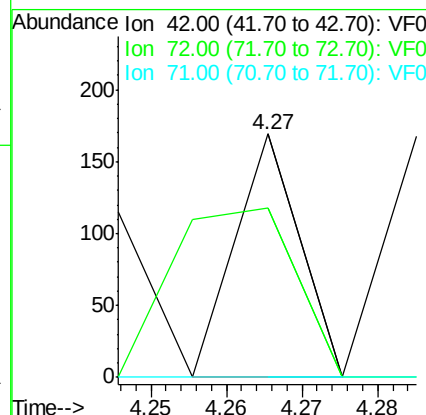
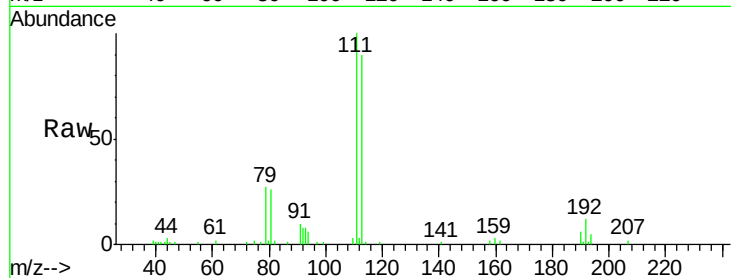
Delta R.T. -0.01 min

Lab File: VF059596.D

Acq: 20 Jul 2018 22:22

Instrument :
MSVOA_F
ClientSampled :

Tot Ion:	42	Resp:	100
Ion	Ratio	Lower	Upper
42	100		
72	135.0	28.7	43.1#
71	0.0	30.8	46.2#



#33

1,2-Dichloroethane-d4

Concen: 38.476 ug/l

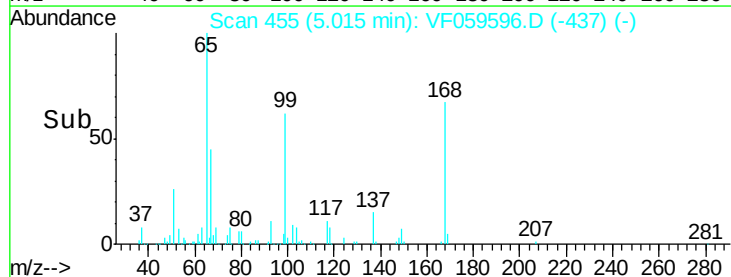
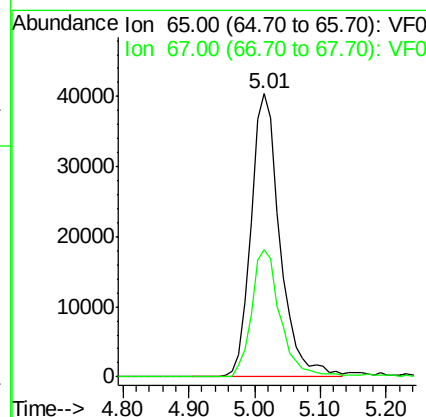
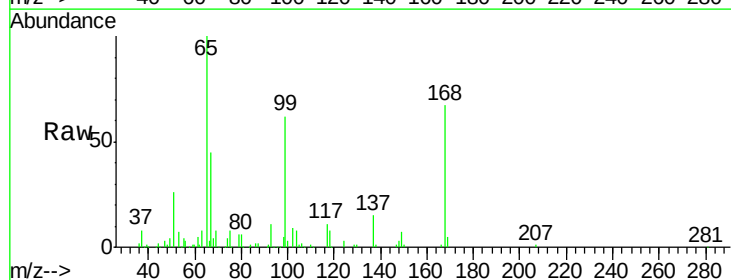
RT: 5.01 min Scan# 455

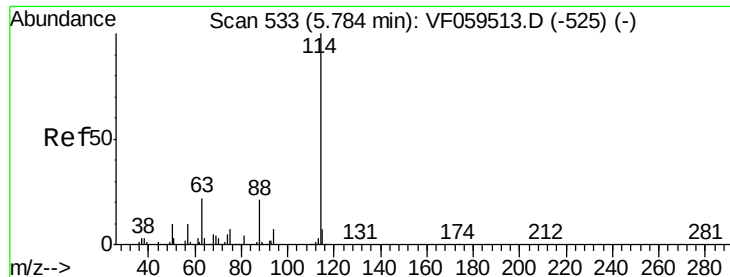
Delta R.T. -0.02 min

Lab File: VF059596.D

Acq: 20 Jul 2018 22:22

Tgt Ion:	65	Resp:	124611
Ion	Ratio	Lower	Upper
65	100		
67	45.0	0.0	91.2

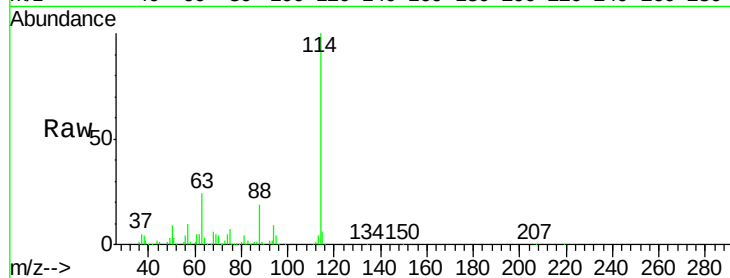




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.76 min Scan# 531
 Delta R.T. -0.02 min
 Lab File: VF059596.D
 Acq: 20 Jul 2018 22:22

Instrument :
 MSVOA_F
 ClientSampleId :

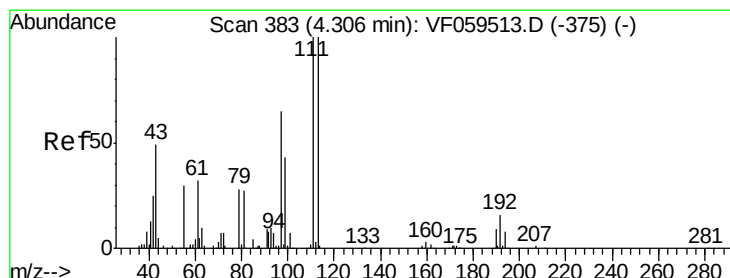
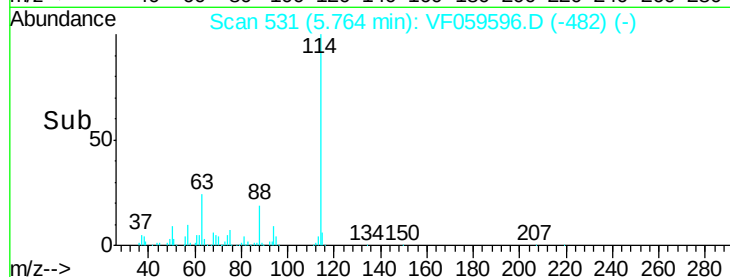
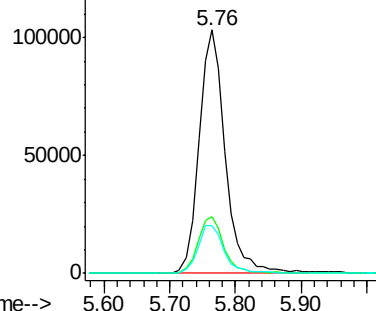
Tot Ion	Ratio	Lower	Upper
114	100		
63	23.5	0.0	44.8
88	19.4	0.0	42.6



Abundance Ion 114.00 (113.70 to 114.70): V

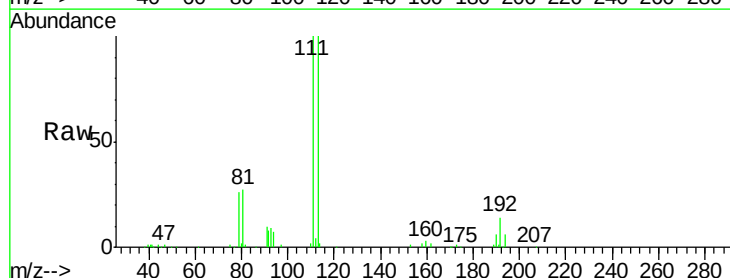
Ion 63.00 (62.70 to 63.70): VF0

Ion 88.00 (87.70 to 88.70): VF0



#35
 Dibromofluoromethane
 Concen: 42.549 ug/l
 RT: 4.29 min Scan# 381
 Delta R.T. -0.02 min
 Lab File: VF059596.D
 Acq: 20 Jul 2018 22:22

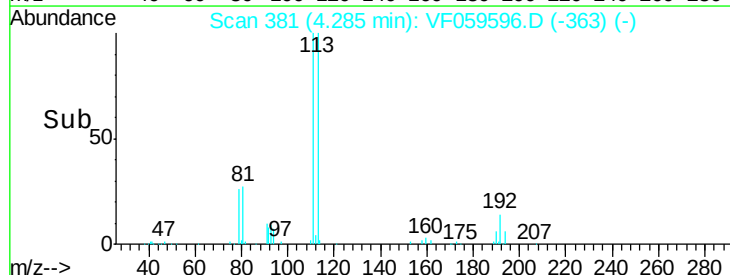
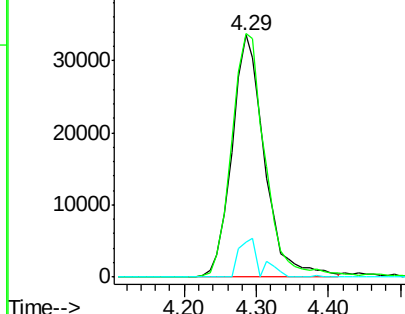
Tgt Ion	Ratio	Lower	Upper
113	100		
111	100.5	80.3	120.5
192	14.3	13.1	19.7

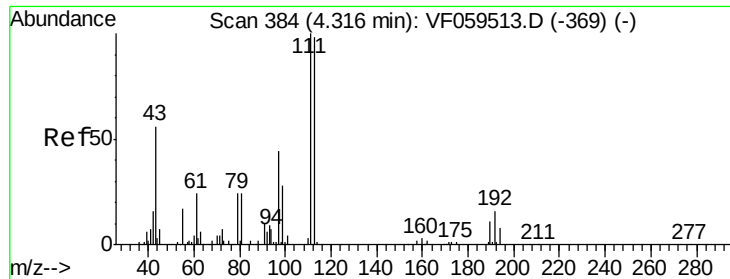


Abundance Ion 113.00 (112.70 to 113.70): V

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: 4.25 min Scan# 377

Delta R.T. -0.07 min

Lab File: VF059596.D

Acq: 20 Jul 2018 22:22

Instrument :
MSVOA_F
ClientSampled :

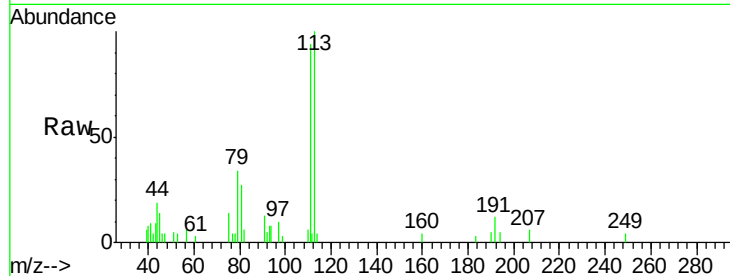
Tot Ion: 43 Resp: 288

Ion Ratio Lower Upper

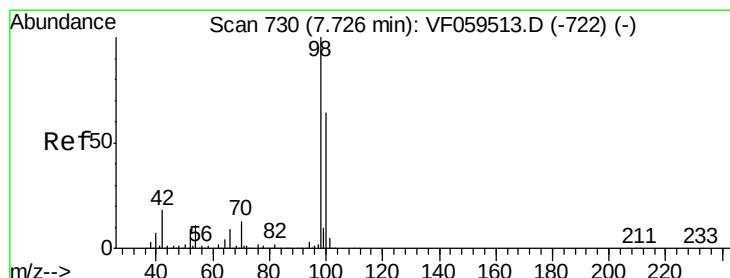
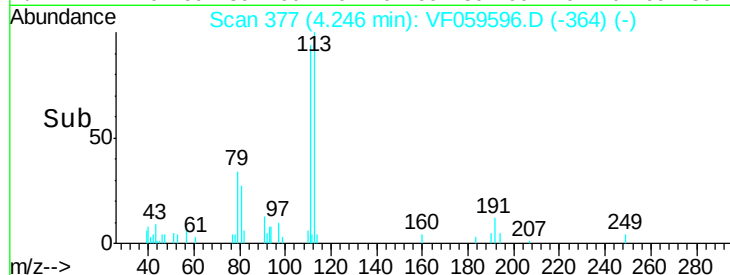
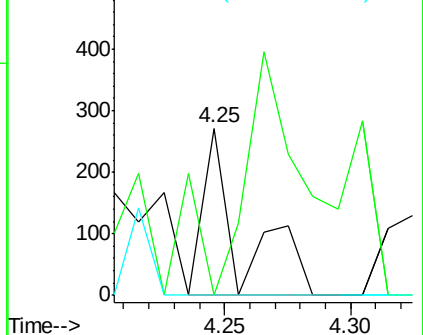
43 100

61 0.0 33.7 50.5#

70 0.0 7.4 11.0#



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



#50

Toluene-d8

Concen: 32.468 ug/l

RT: 7.71 min Scan# 728

Delta R.T. -0.02 min

Lab File: VF059596.D

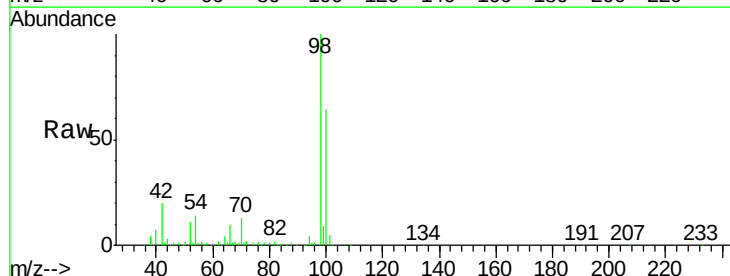
Acq: 20 Jul 2018 22:22

Tgt Ion: 98 Resp: 203157

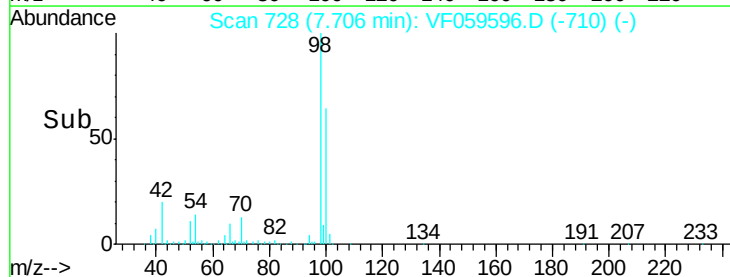
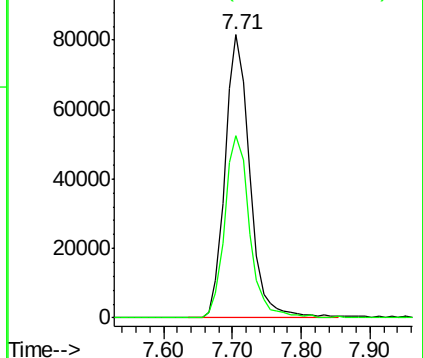
Ion Ratio Lower Upper

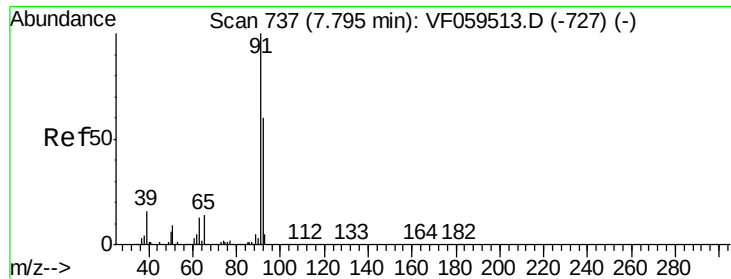
98 100

100 64.5 50.9 76.3



Abundance Ion 98.00 (97.70 to 98.70): VF0
Ion 100.00 (99.70 to 100.70): VF0





#58

2-Chloroethyl Vinyl ether

Concen: 2.632 ug/l

RT: 7.76 min Scan# 734

Delta R.T. -0.03 min

Lab File: VF059596.D

Acq: 20 Jul 2018 22:22

Instrument :

MSVOA_F

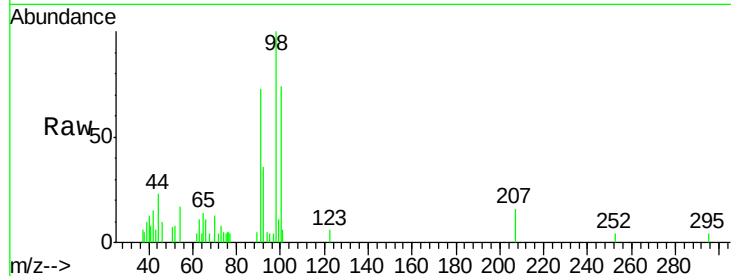
ClientSampleId :

Tot Ion: 63 Resp: 451

Ion Ratio Lower Upper

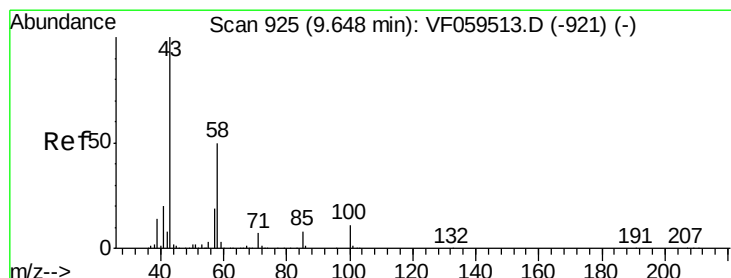
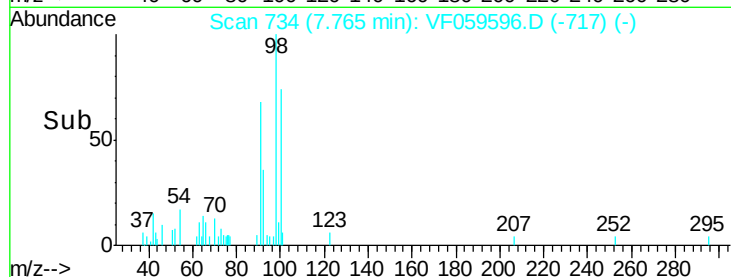
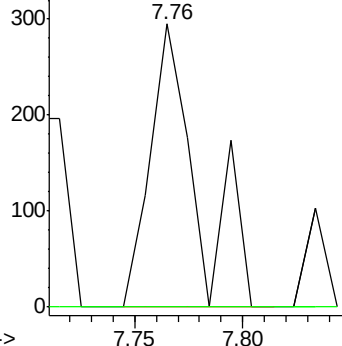
63 100

106 0.0 0.0 0.0



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 106.00 (105.70 to 106.70): V



#59

2-Hexanone

Concen: 1.581 ug/l

RT: 9.64 min Scan# 924

Delta R.T. -0.01 min

Lab File: VF059596.D

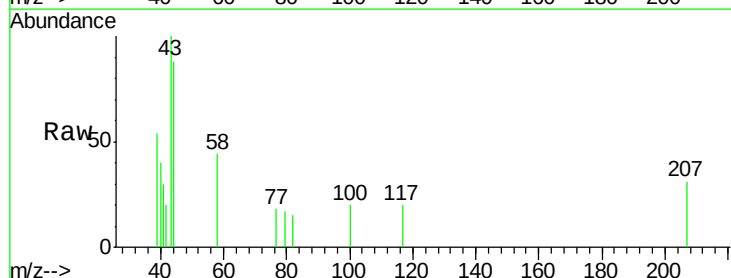
Acq: 20 Jul 2018 22:22

Tgt Ion: 43 Resp: 1747

Ion Ratio Lower Upper

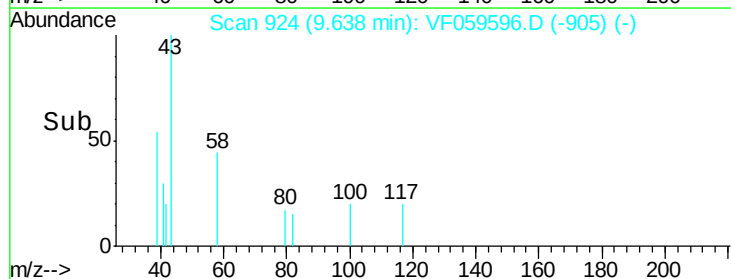
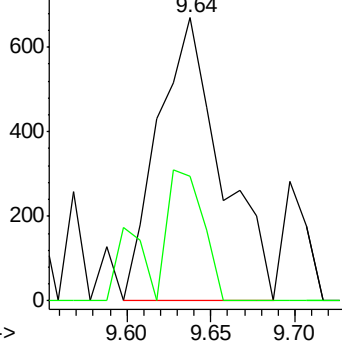
43 100

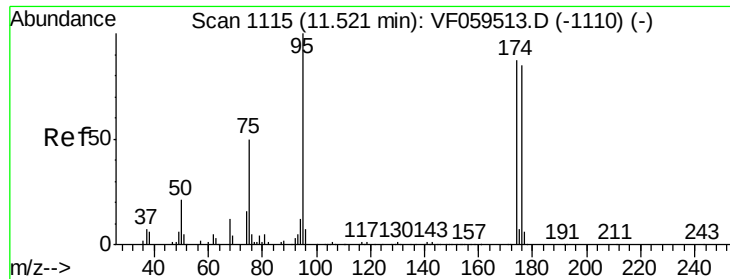
58 43.9 23.3 69.9



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

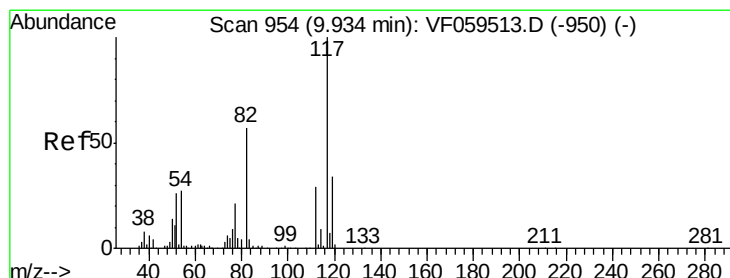
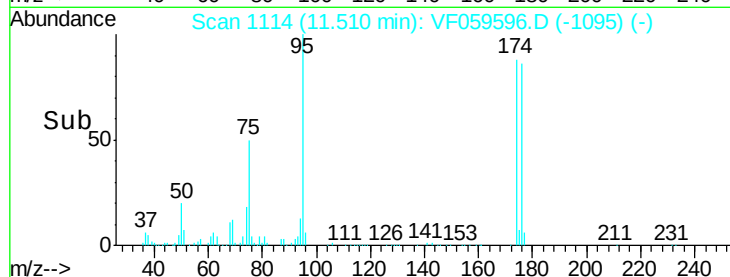
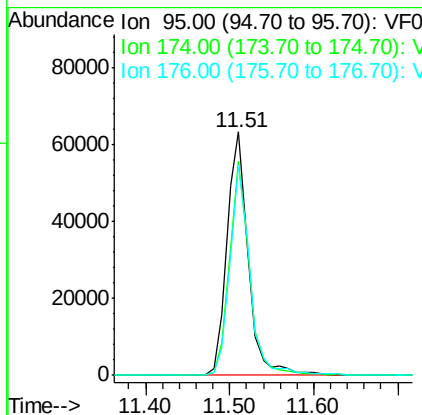
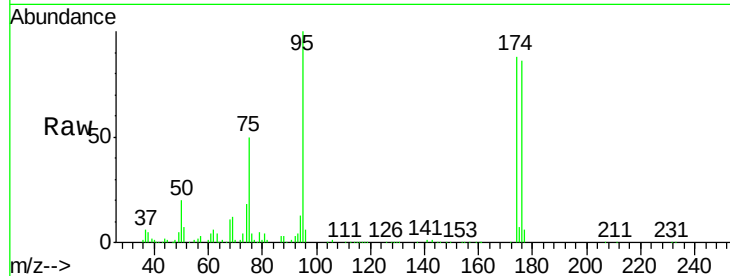




#62
4-Bromofluorobenzene
Concen: 33.633 ug/l
RT: 11.51 min Scan# 1114
Delta R.T. -0.01 min
Lab File: VF059596.D
Acq: 20 Jul 2018 22:22

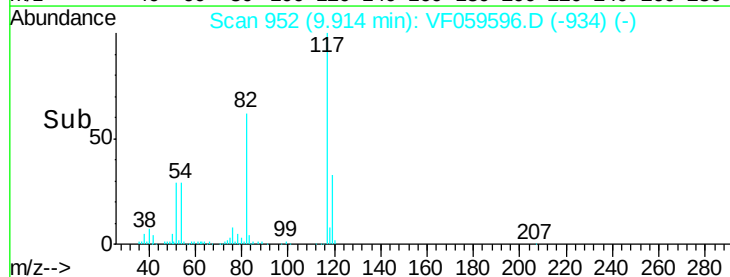
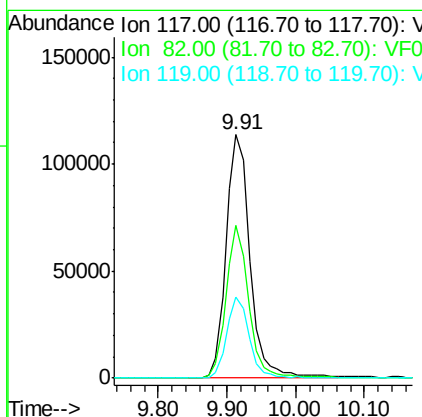
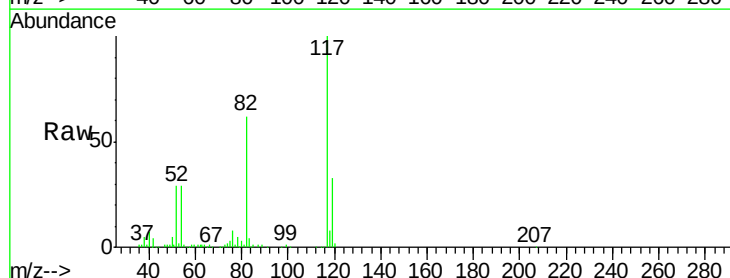
Instrument :
MSVOA_F
ClientSampleId :

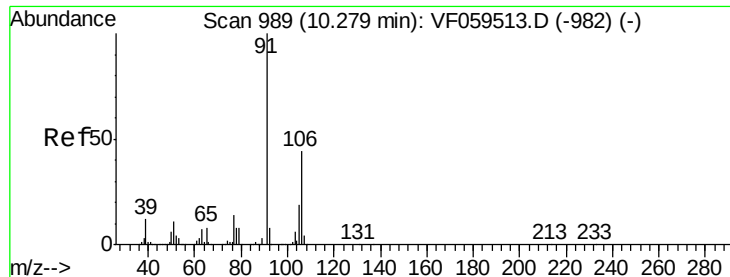
Tot Ion: 95 Resp: 110398
Ion Ratio Lower Upper
95 100
174 87.8 0.0 174.4
176 86.4 0.0 169.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.91 min Scan# 952
Delta R.T. -0.02 min
Lab File: VF059596.D
Acq: 20 Jul 2018 22:22

Tgt Ion: 117 Resp: 274041
Ion Ratio Lower Upper
117 100
82 62.5 46.1 69.1
119 33.3 27.2 40.8

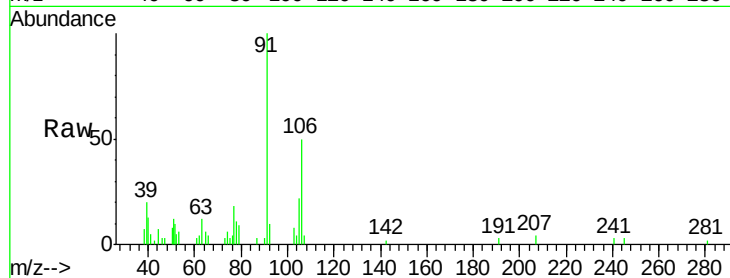




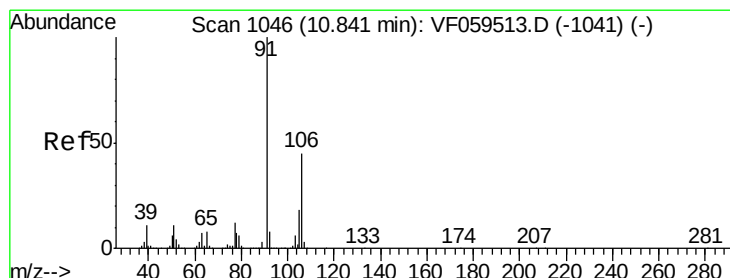
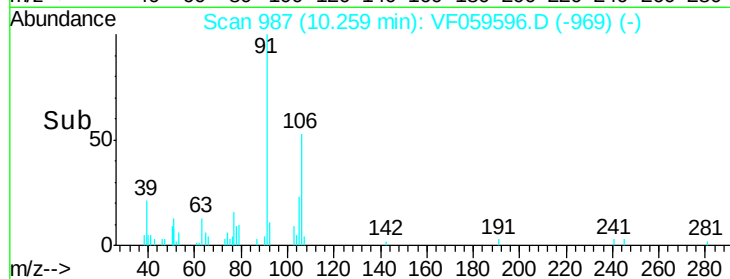
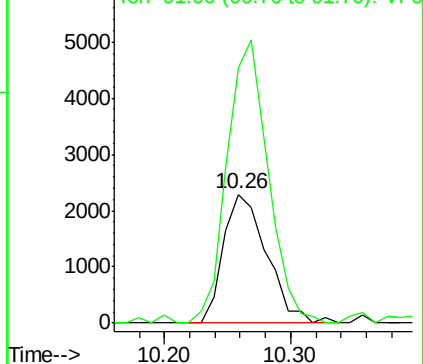
#68
m/p-Xylenes
Concen: 1.695 ug/l
RT: 10.26 min Scan# 987
Delta R.T. -0.02 min
Lab File: VF059596.D
Acq: 20 Jul 2018 22:22

Instrument :
MSVOA_F
ClientSampled :

Tot Ion:106 Resp: 5472
Ion Ratio Lower Upper
106 100
91 198.6 181.0 271.4

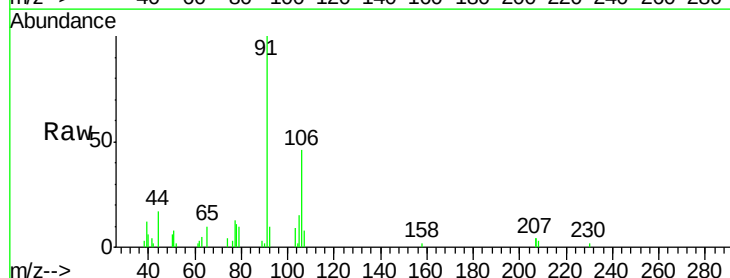


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VF0

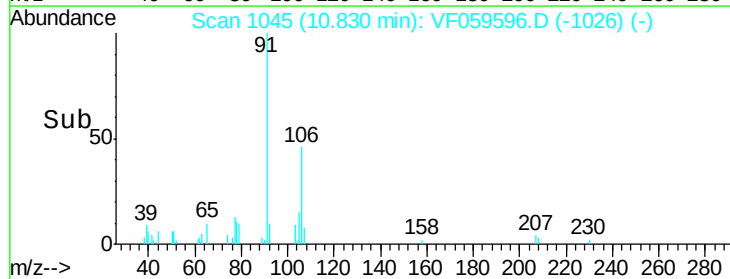
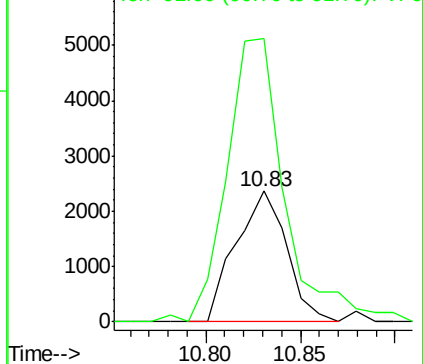


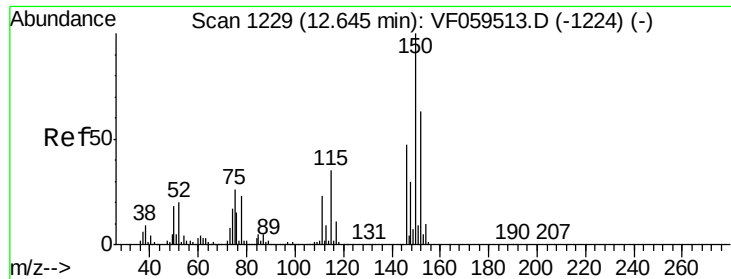
#69
o-Xylene
Concen: 1.273 ug/l
RT: 10.83 min Scan# 1045
Delta R.T. -0.01 min
Lab File: VF059596.D
Acq: 20 Jul 2018 22:22

Tgt Ion:106 Resp: 4377
Ion Ratio Lower Upper
106 100
91 216.6 112.3 336.9



Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VF0

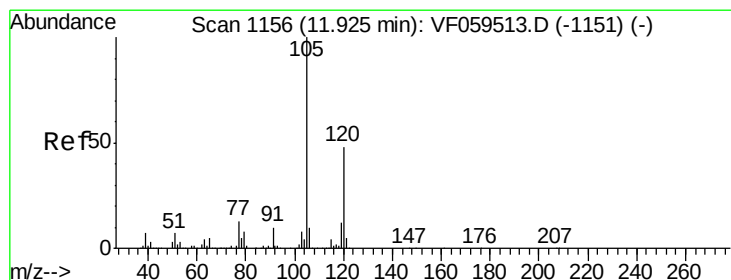
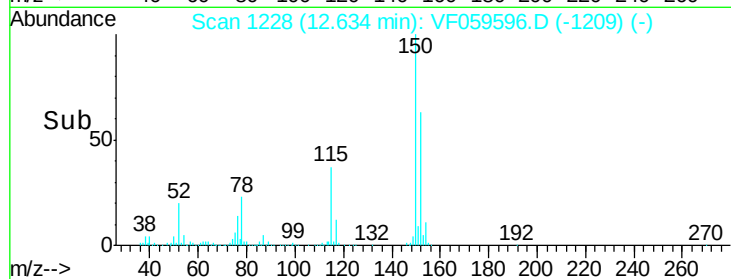
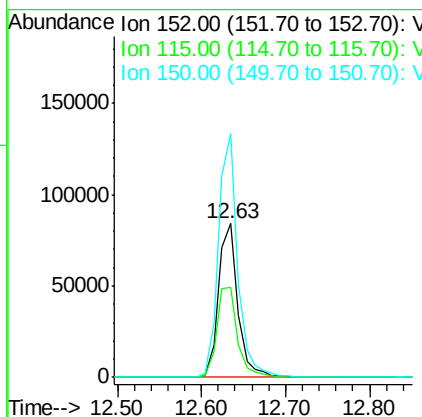
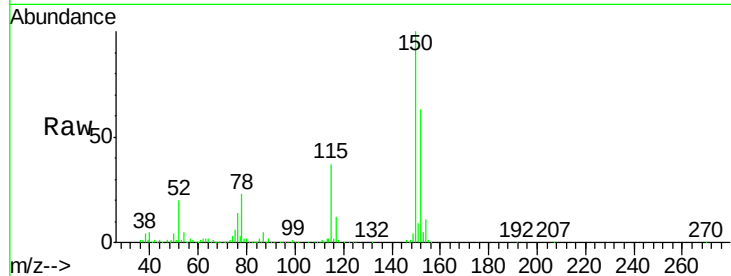




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 12.63 min Scan# 1228
 Delta R.T. -0.01 min
 Lab File: VF059596.D
 Acq: 20 Jul 2018 22:22

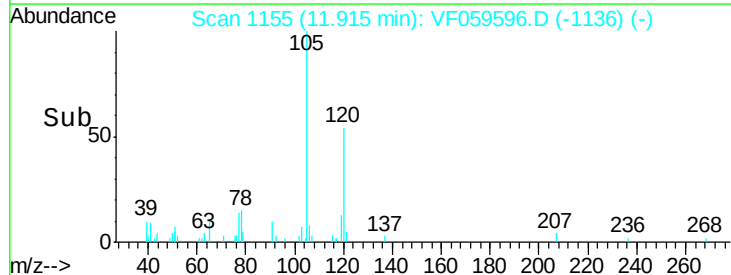
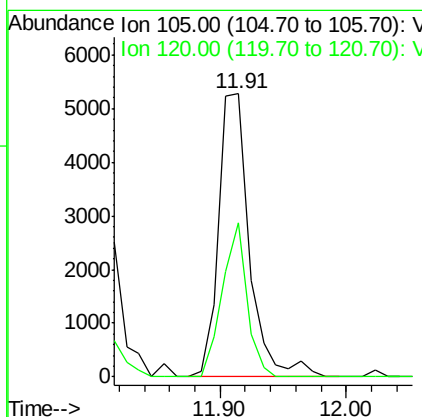
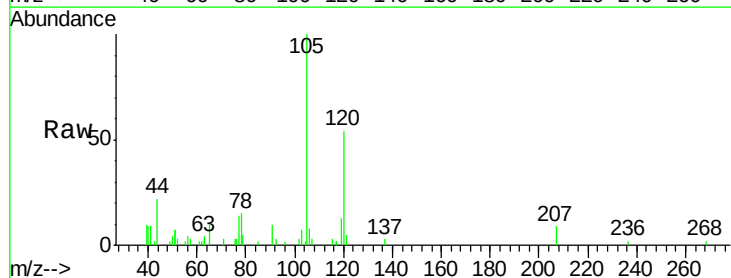
Instrument :
 MSVOA_F
 ClientSampleId :

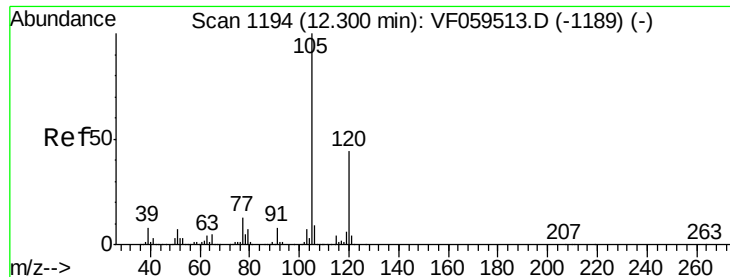
Tot Ion:152 Resp: 134810
 Ion Ratio Lower Upper
 152 100
 115 58.4 27.8 83.3
 150 158.1 0.0 318.4



#80
 1,3,5-Trimethylbenzene
 Concen: 1.261 ug/l
 RT: 11.91 min Scan# 1155
 Delta R.T. -0.01 min
 Lab File: VF059596.D
 Acq: 20 Jul 2018 22:22

Tgt Ion:105 Resp: 8985
 Ion Ratio Lower Upper
 105 100
 120 54.4 24.1 72.4

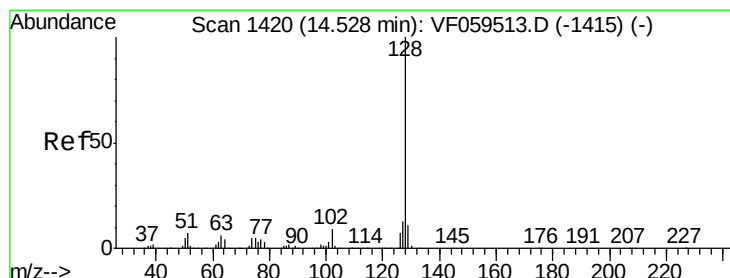
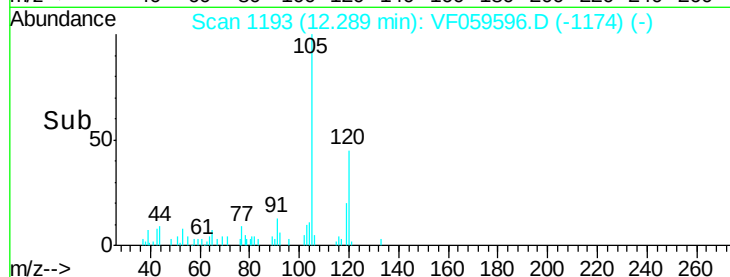
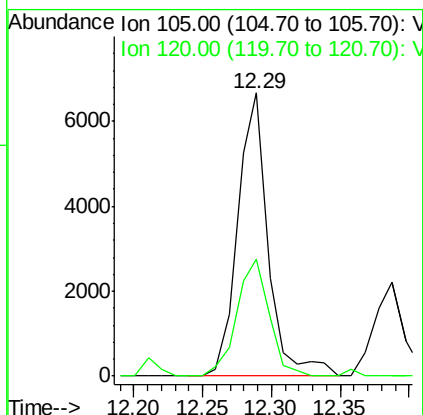
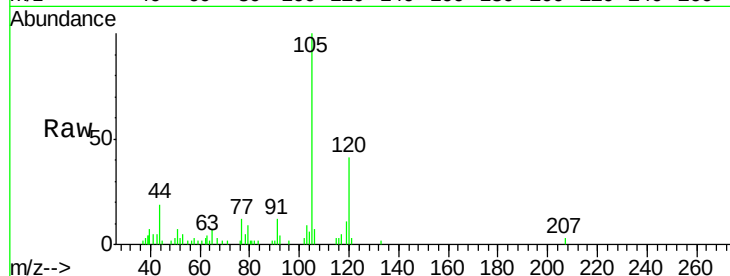




#84
 1,2,4-Trimethylbenzene
 Concen: 1.398 ug/l
 RT: 12.29 min Scan# 1193
 Delta R.T. -0.01 min
 Lab File: VF059596.D
 Acq: 20 Jul 2018 22:22

Instrument :
 MSVOA_F
 ClientSampleId :

Tot Ion:105 Resp: 10252
 Ion Ratio Lower Upper
 105 100
 120 41.3 22.5 67.5



#95
 Naphthalene
 Concen: 2.585 ug/l
 RT: 14.52 min Scan# 1419
 Delta R.T. -0.01 min
 Lab File: VF059596.D
 Acq: 20 Jul 2018 22:22

Tgt Ion:128 Resp: 12768
 Ion Ratio Lower Upper
 128 100
 127 11.1 10.2 15.2
 129 9.8 9.0 13.4

