

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF121818\
 Data File : VF061065.D
 Acq On : 18 Dec 2018 16:24
 Operator : VA/AP
 Sample : J6464-01RE
 Misc : 5.1g/5mL/MSVOA-F/SOIL
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 290-RT4008-RBR251686RE

Quant Time: Dec 19 00:52:19 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F112618S.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 27 01:36:26 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.87	168	181330	50.00	ug/l	-0.04
34) 1,4-Difluorobenzene	5.60	114	299018	50.00	ug/l	-0.04
63) Chlorobenzene-d5	9.77	117	209505	50.00	ug/l	-0.04
72) 1,4-Dichlorobenzene-d4	12.55	152	54761	50.00	ug/l	-0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.84	65	108463	50.78	ug/l	-0.04
Spiked Amount			Recovery	=	101.56%	
35) Dibromofluoromethane	4.11	113	122288	51.55	ug/l	-0.04
Spiked Amount			Recovery	=	103.10%	
50) Toluene-d8	7.55	98	279613	40.01	ug/l	-0.04
Spiked Amount			Recovery	=	80.02%	
62) 4-Bromofluorobenzene	11.41	95	79400	25.00	ug/l	-0.03
Spiked Amount			Recovery	=	50.00%	

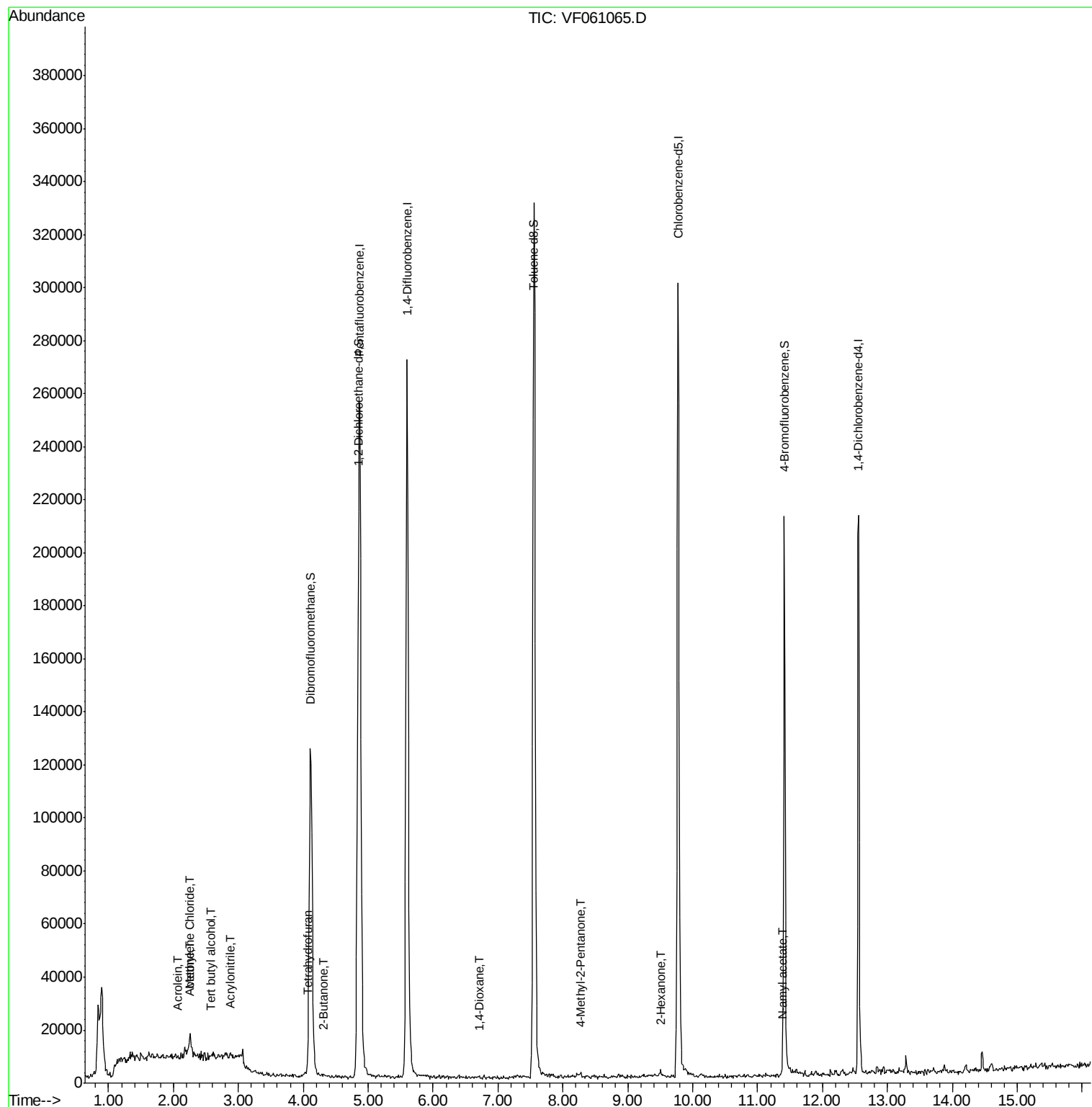
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	2.57	59	119	1.359	ug/l #	1
13) Acrolein	2.06	56	144	1.736	ug/l	90
15) Acrylonitrile	2.88	53	286	1.457	ug/l	91
16) Acetone	2.24	43	4449	11.294	ug/l	95
20) Methylene Chloride	2.25	84	3383	2.341	ug/l	92
25) 2-Butanone	4.32	43	1746	2.563	ug/l #	57
29) Tetrahydrofuran	4.06	42	991	3.431	ug/l #	50
41) Methacrylonitrile	4.77	41	336	Below Cal	#	23
43) Isopropyl Acetate	6.96	43	692	Below Cal	#	49
49) 1,4-Dioxane	6.71	88	62	6.944	ug/l #	17
51) 4-Methyl-2-Pentanone	8.27	43	1871	1.505	ug/l	91
59) 2-Hexanone	9.51	43	2542	2.915	ug/l	91
74) N-amyl acetate	11.37	43	2620	2.622	ug/l #	83
95) Naphthalene	14.46	128	5051	Below Cal	#	93

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

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_F\METHODS\82F112618S.M
Quant Title : SW846 8260
QLast Update : Tue Nov 27 01:36:26 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.87 min Scan# 430

Delta R.T. -0.04 min

Lab File: VF061065.D

Acq: 18 Dec 2018 16:24

Instrument :

MSVOA_F

ClientSampleId :

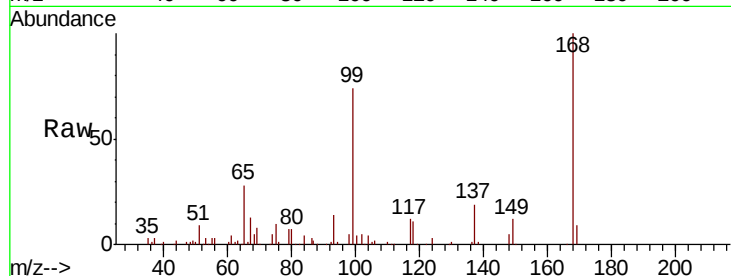
290-RT4008-RBR251686RE

Tot Ion:168 Resp: 181330

Ion Ratio Lower Upper

168 100

99 74.4 52.6 79.0



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.87

60000

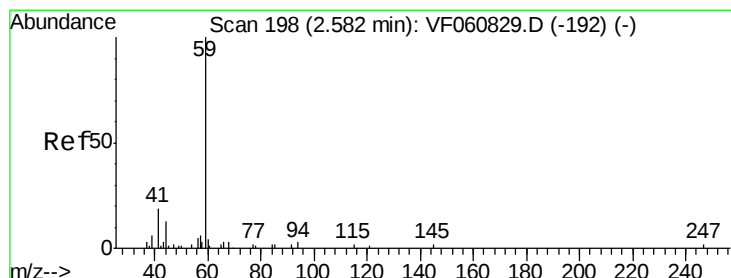
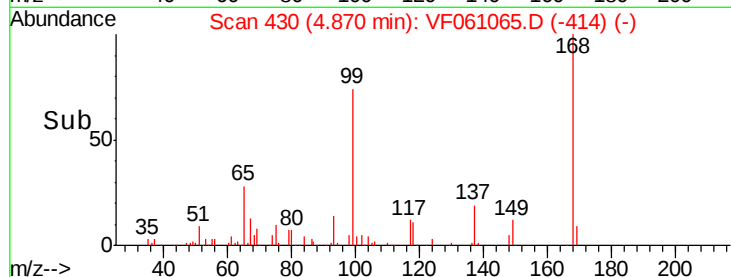
40000

20000

0

Time-->

4.70 4.80 4.90 5.00 5.10



#11

Tert butyl alcohol

Concen: 1.359 ug/l

RT: 2.57 min Scan# 197

Delta R.T. -0.01 min

Lab File: VF061065.D

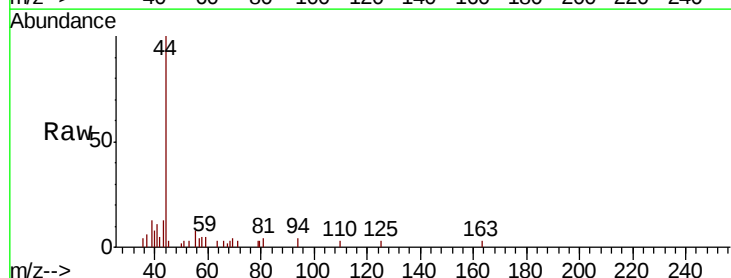
Acq: 18 Dec 2018 16:24

Tgt Ion: 59 Resp: 119

Ion Ratio Lower Upper

59 100

57 81.1 12.7 19.1#



Abundance Ion 59.00 (58.70 to 59.70): VF0

Ion 57.00 (56.70 to 57.70): VF0

2.57

200

150

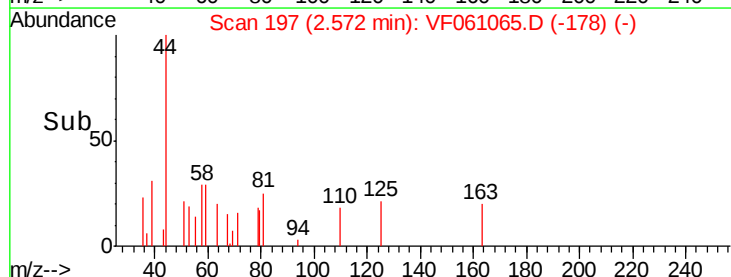
100

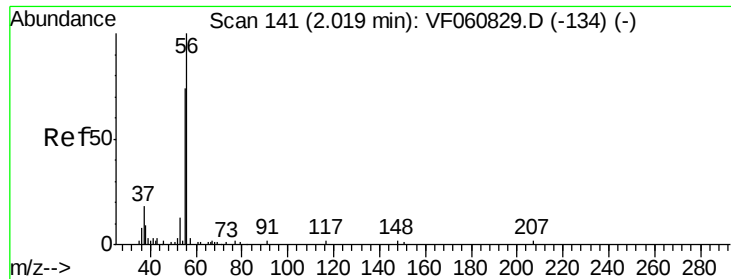
50

0

Time-->

2.54 2.56 2.58





#13

Acrolein

Concen: 1.736 ug/l

RT: 2.06 min Scan# 145

Delta R.T. 0.04 min

Lab File: VF061065.D

Acq: 18 Dec 2018 16:24

Instrument :

MSVOA_F

ClientSampleId :

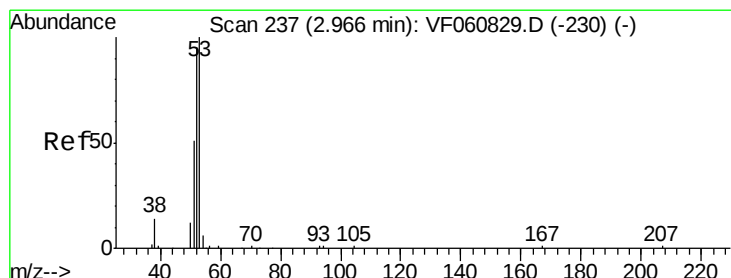
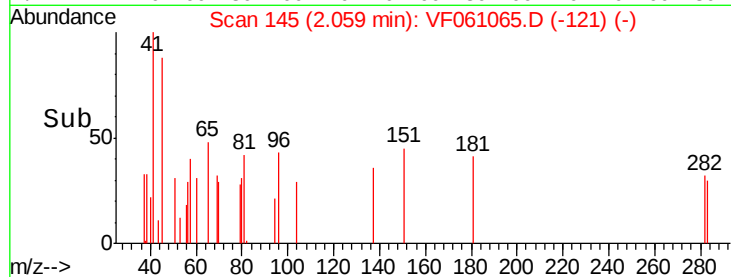
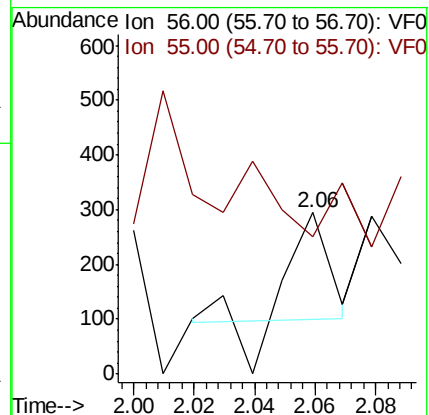
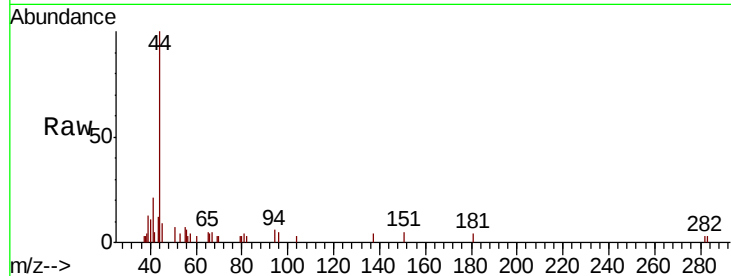
290-RT4008-RBR251686RE

Tot Ion: 56 Resp: 144

Ion Ratio Lower Upper

56 100

55 85.0 61.2 91.8



#15

Acrylonitrile

Concen: 1.457 ug/l

RT: 2.88 min Scan# 228

Delta R.T. -0.09 min

Lab File: VF061065.D

Acq: 18 Dec 2018 16:24

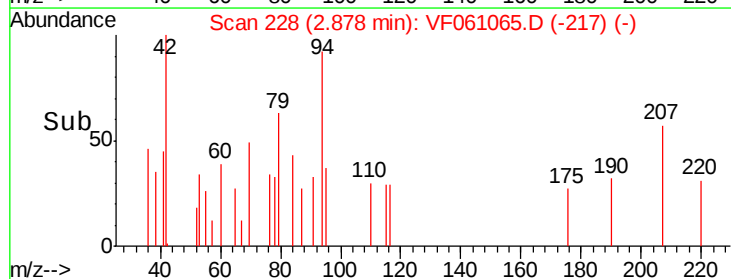
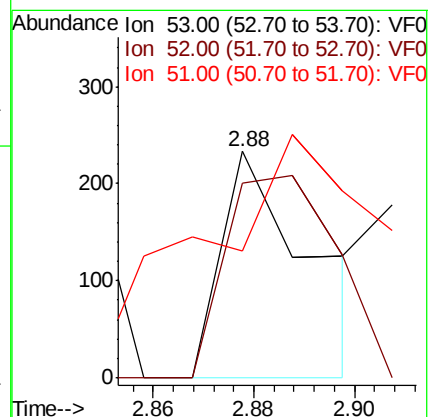
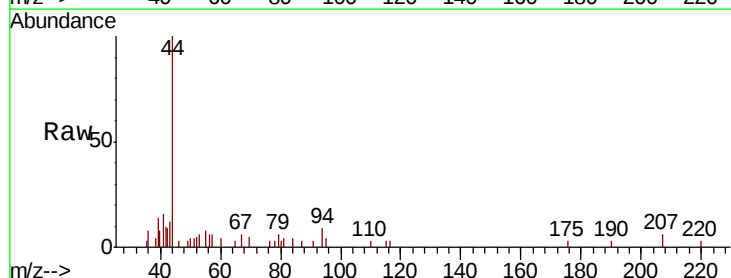
Tgt Ion: 53 Resp: 286

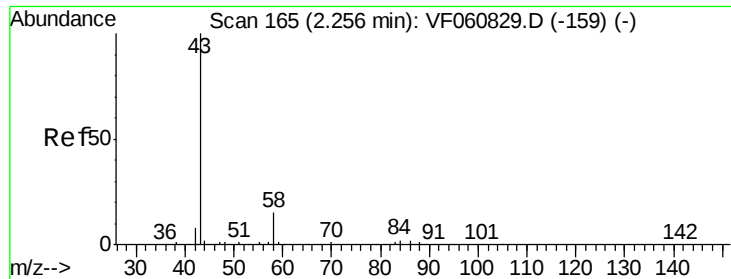
Ion Ratio Lower Upper

53 100

52 86.3 76.5 114.7

51 55.8 40.7 61.1

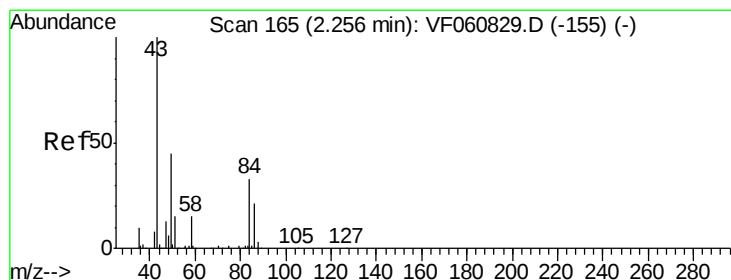
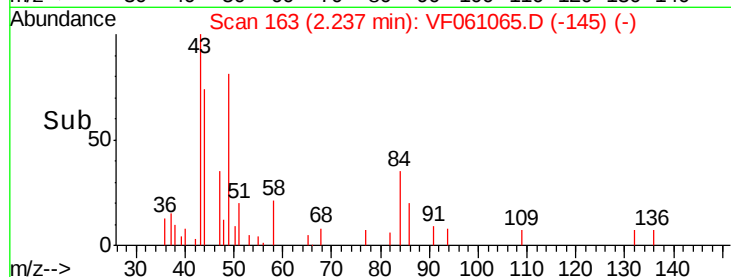
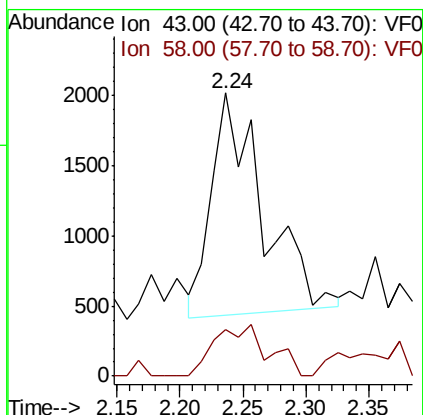
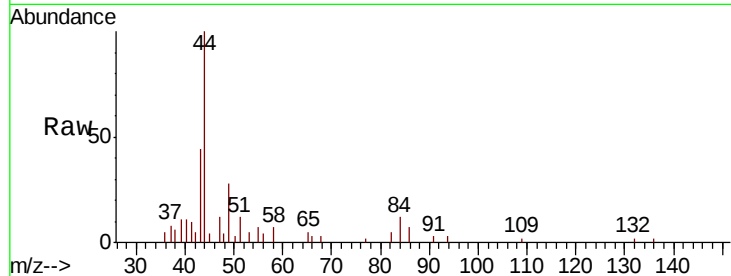




#16
Acetone
Concen: 11.294 ug/l
RT: 2.24 min Scan# 163
Delta R.T. -0.02 min
Lab File: VF061065.D
Acq: 18 Dec 2018 16:24

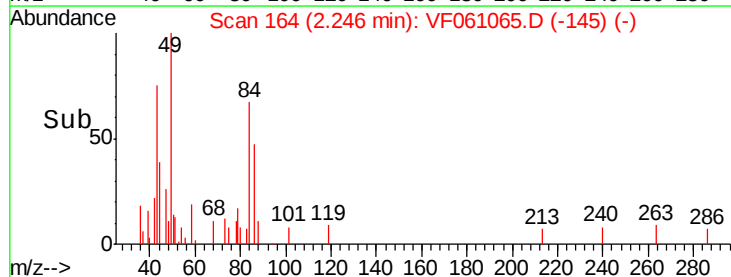
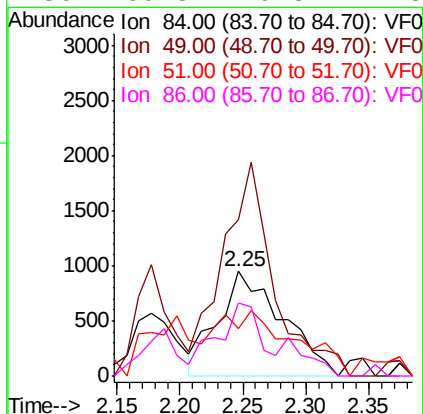
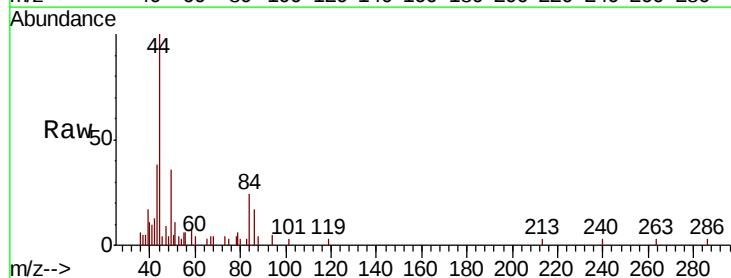
Instrument :
MSVOA_F
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290-RT4008-RBR251686RE

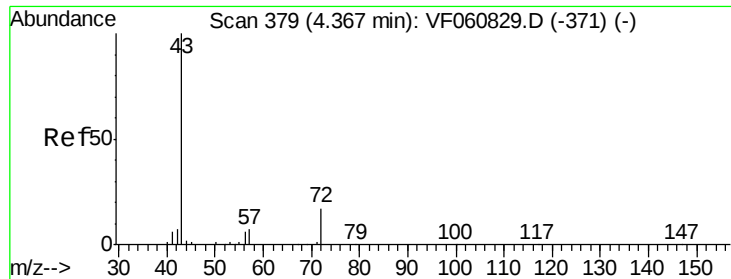
Tot Ion: 43 Resp: 4449
Ion Ratio Lower Upper
43 100
58 16.4 11.4 17.2



#20
Methylene Chloride
Concen: 2.341 ug/l
RT: 2.25 min Scan# 164
Delta R.T. -0.01 min
Lab File: VF061065.D
Acq: 18 Dec 2018 16:24

Tgt Ion: 84 Resp: 3383
Ion Ratio Lower Upper
84 100
49 149.7 111.3 166.9
51 45.1 38.0 57.0
86 69.8 49.8 74.8

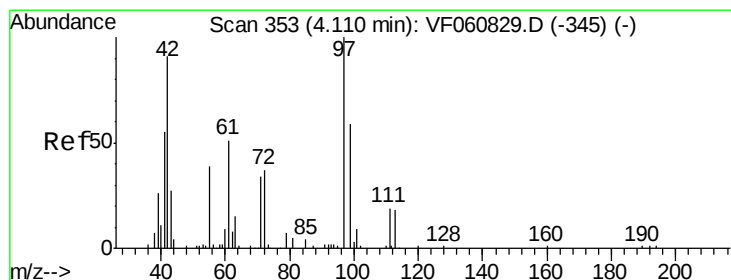
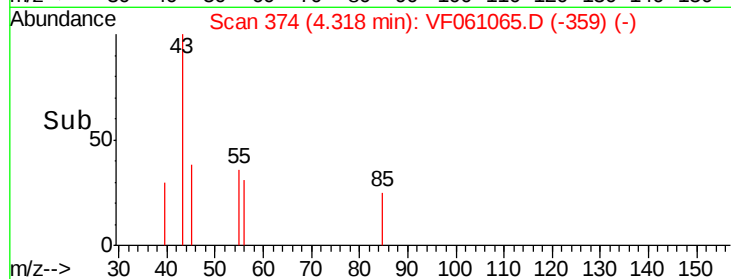
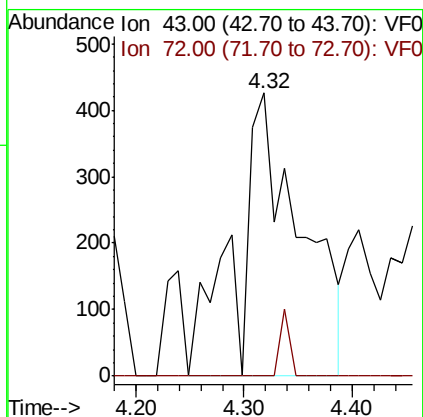
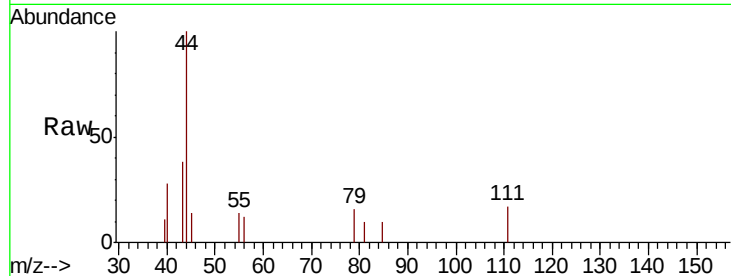




#25
2-Butanone
Concen: 2.563 ug/l
RT: 4.32 min Scan# 374
Delta R.T. -0.05 min
Lab File: VF061065.D
Acq: 18 Dec 2018 16:24

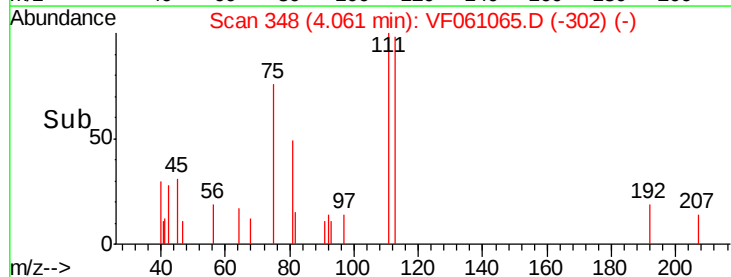
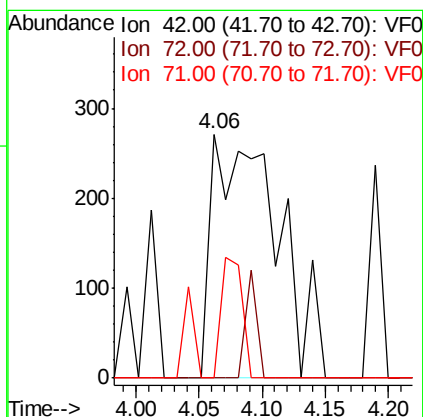
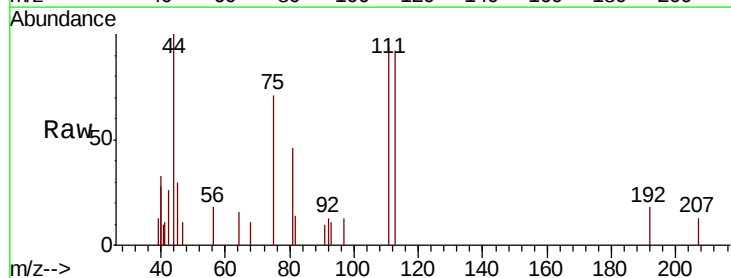
Instrument :
MSVOA_F
ClientSampleId :
290-RT4008-RBR251686RE

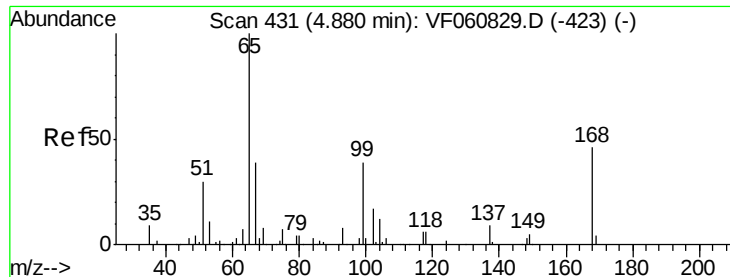
Tot Ion: 43 Resp: 1746
Ion Ratio Lower Upper
43 100
72 0.0 15.4 23.2#



#29
Tetrahydrofuran
Concen: 3.431 ug/l
RT: 4.06 min Scan# 348
Delta R.T. -0.05 min
Lab File: VF061065.D
Acq: 18 Dec 2018 16:24

Tgt Ion: 42 Resp: 991
Ion Ratio Lower Upper
42 100
72 0.0 31.9 47.9#
71 15.5 28.7 43.1#





#33

1,2-Dichloroethane-d4

Concen: 50.776 ug/l

RT: 4.84 min Scan# 427

Delta R.T. -0.04 min

Lab File: VF061065.D

Acq: 18 Dec 2018 16:24

Instrument :

MSVOA_F

ClientSampleId :

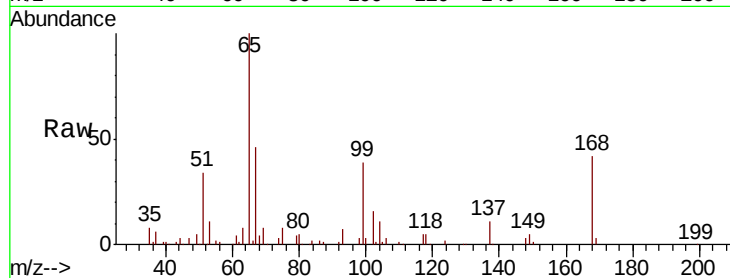
290-RT4008-RBR251686RE

Tot Ion: 65 Resp: 108463

Ion Ratio Lower Upper

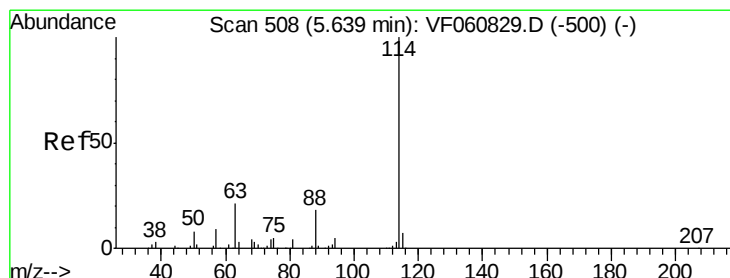
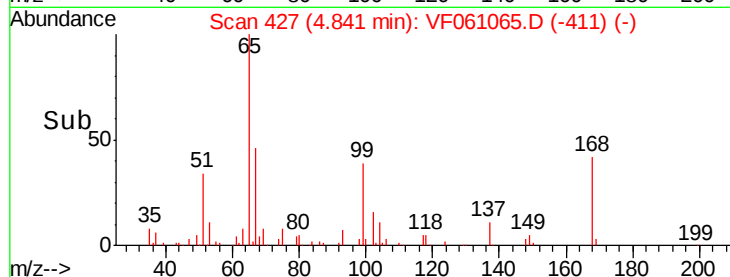
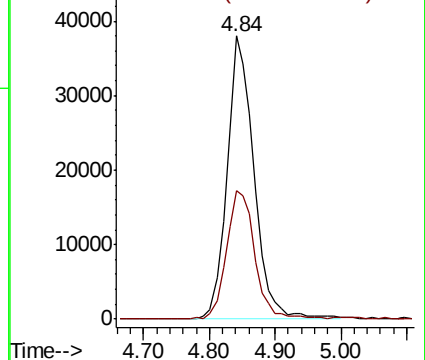
65 100

67 45.5 0.0 96.4



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: 5.60 min Scan# 504

Delta R.T. -0.04 min

Lab File: VF061065.D

Acq: 18 Dec 2018 16:24

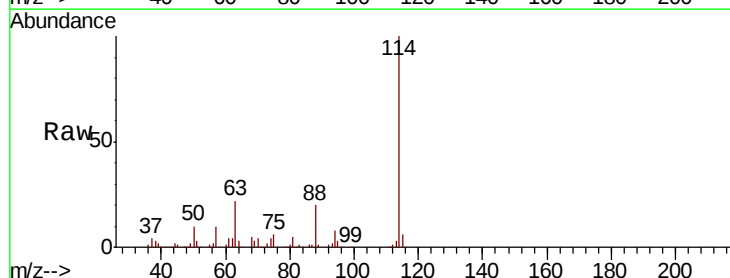
Tgt Ion: 114 Resp: 299018

Ion Ratio Lower Upper

114 100

63 21.6 0.0 41.6

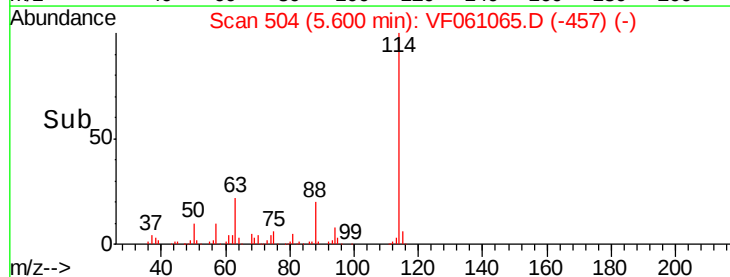
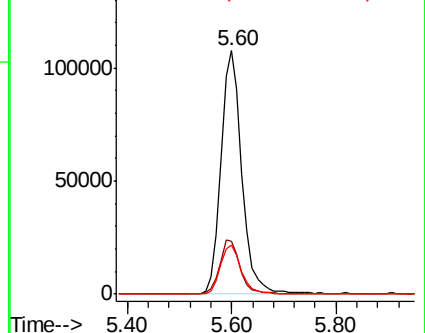
88 20.1 0.0 36.6

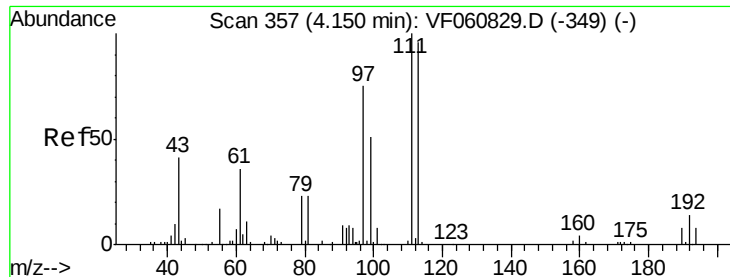


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VF0

Ion 88.00 (87.70 to 88.70): VF0

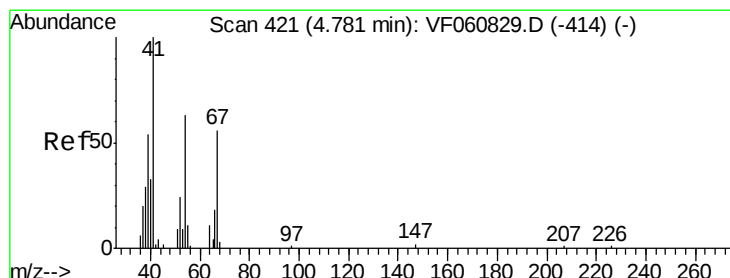
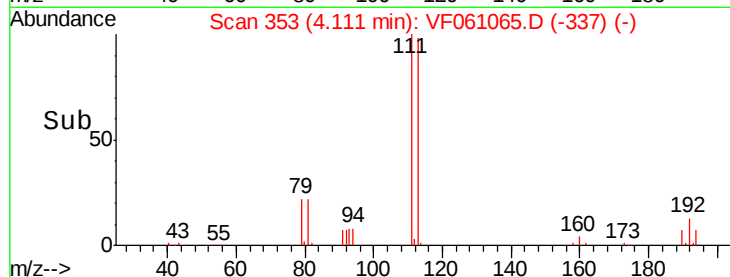
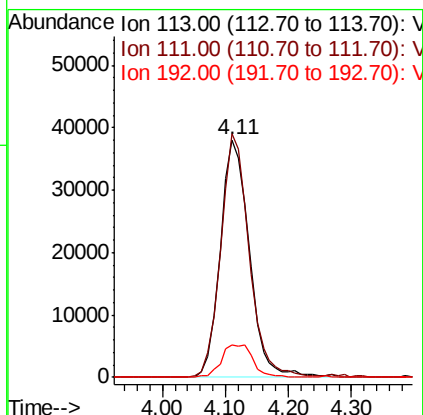
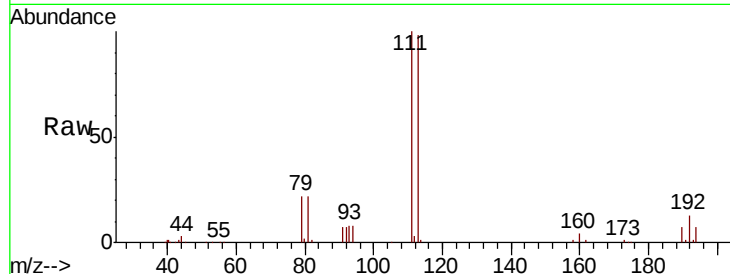




#35
Dibromofluoromethane
Concen: 51.551 ug/l
RT: 4.11 min Scan# 353
Delta R.T. -0.04 min
Lab File: VF061065.D
Acq: 18 Dec 2018 16:24

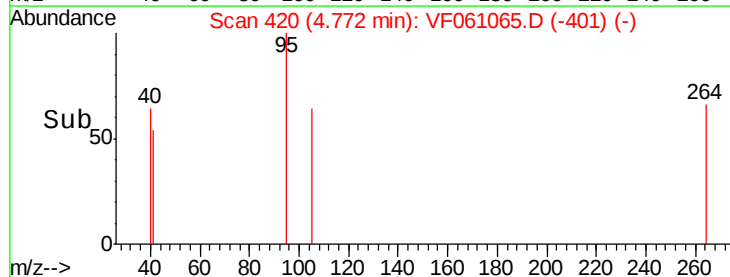
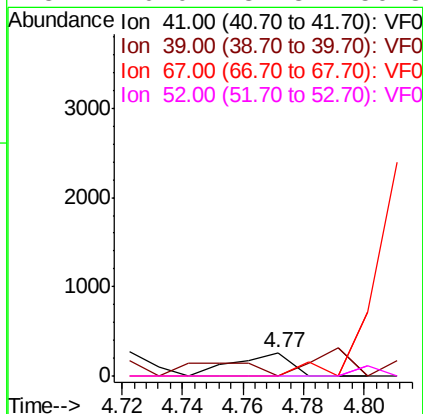
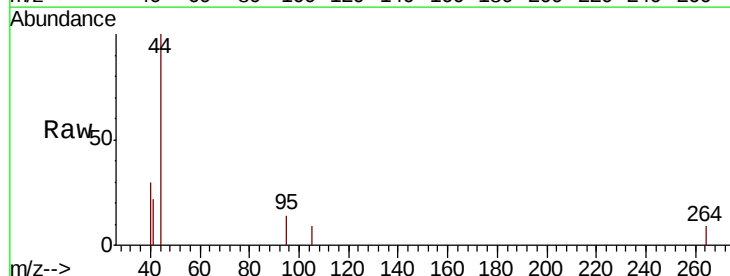
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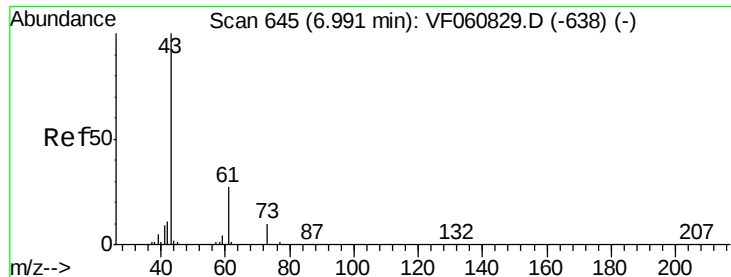
Tot Ion:113 Resp: 122288
Ion Ratio Lower Upper
113 100
111 102.5 83.0 124.6
192 13.5 12.3 18.5



#41
Methacrylonitrile
Concen: Below Cal
RT: 4.77 min Scan# 420
Delta R.T. -0.01 min
Lab File: VF061065.D
Acq: 18 Dec 2018 16:24

Tgt Ion: 41 Resp: 336
Ion Ratio Lower Upper
41 100
39 0.0 53.0 79.6#
67 0.0 43.8 65.6#
52 0.0 37.8 56.8#



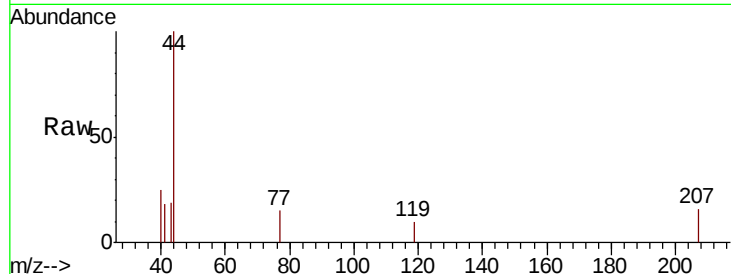


#43

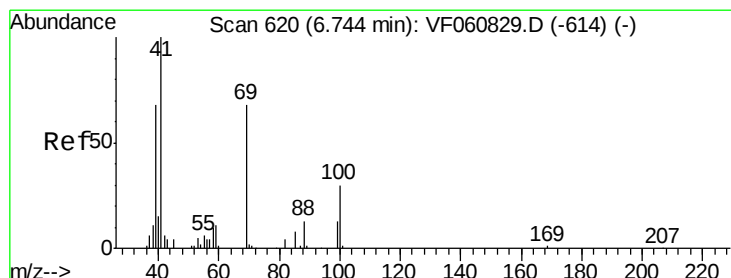
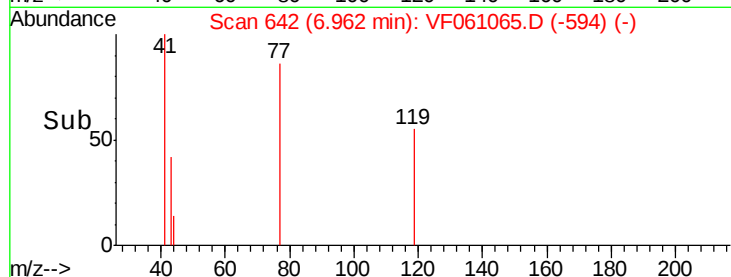
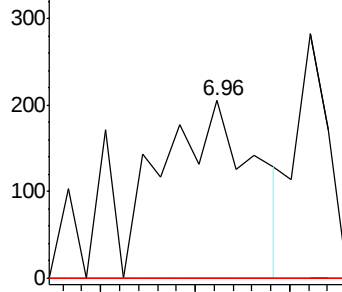
Isopropyl Acetate
 Concen: Below Cal
 RT: 6.96 min Scan# 642
 Delta R.T. -0.03 min
 Lab File: VF061065.D
 Acq: 18 Dec 2018 16:24

Instrument :
 MSVOA_F
 ClientSampleId :
 290-RT4008-RBR251686RE

Tot Ion: 43 Resp: 692
 Ion Ratio Lower Upper
 43 100
 61 0.0 21.4 32.0#
 87 0.0 0.2 0.4#



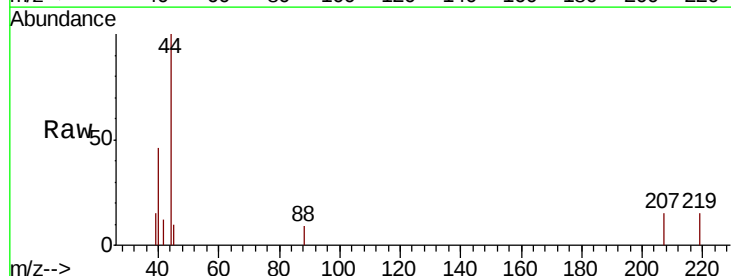
Abundance Ion 43.00 (42.70 to 43.70): VF0
 Ion 61.00 (60.70 to 61.70): VF0
 Ion 87.00 (86.70 to 87.70): VF0



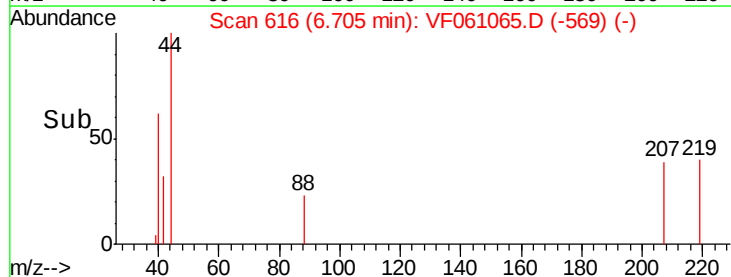
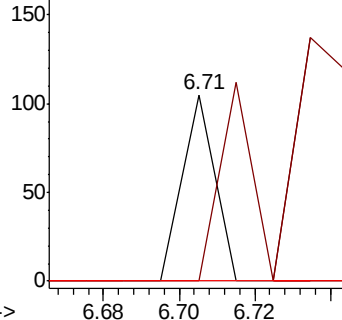
#49

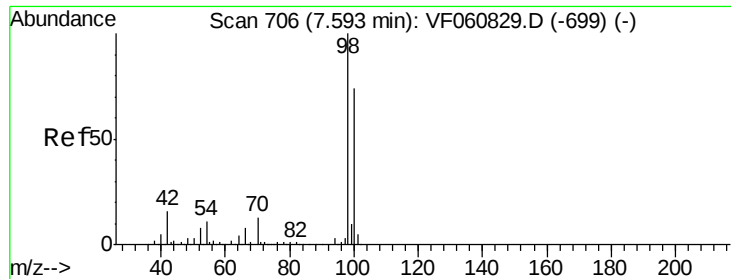
1,4-Dioxane
 Concen: 6.944 ug/l
 RT: 6.71 min Scan# 616
 Delta R.T. -0.04 min
 Lab File: VF061065.D
 Acq: 18 Dec 2018 16:24

Tgt Ion: 88 Resp: 62
 Ion Ratio Lower Upper
 88 100
 43 0.0 42.0 63.0#
 58 0.0 61.8 92.8#



Abundance Ion 88.00 (87.70 to 88.70): VF0
 Ion 43.00 (42.70 to 43.70): VF0
 Ion 58.00 (57.70 to 58.70): VF0





#50

Toluene-d8

Concen: 40.015 ug/l

RT: 7.55 min Scan# 702

Delta R.T. -0.04 min

Lab File: VF061065.D

Acq: 18 Dec 2018 16:24

Instrument :

MSVOA_F

ClientSampleId :

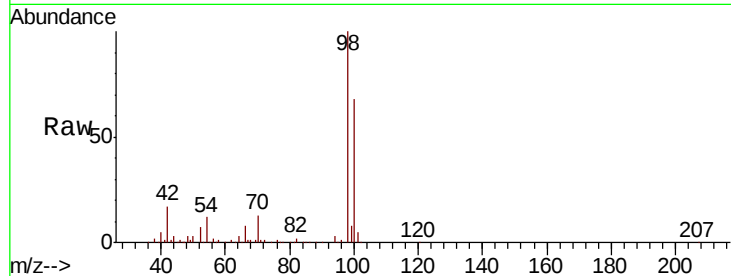
290-RT4008-RBR251686RE

Tot Ion: 98 Resp: 279613

Ion Ratio Lower Upper

98 100

100 68.2 59.3 88.9



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0

7.55

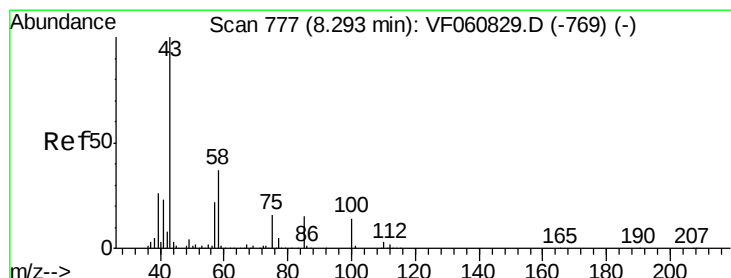
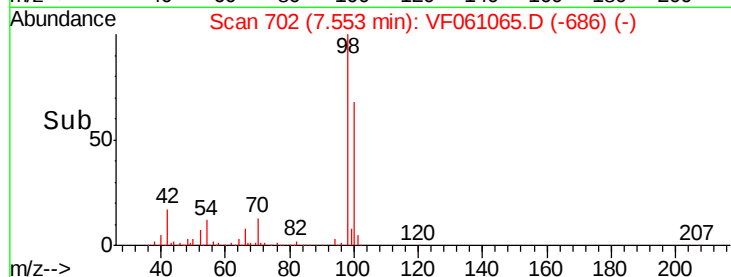
100000

50000

0

Time-->

7.40 7.50 7.60 7.70



#51

4-Methyl-2-Pentanone

Concen: 1.505 ug/l

RT: 8.27 min Scan# 775

Delta R.T. -0.02 min

Lab File: VF061065.D

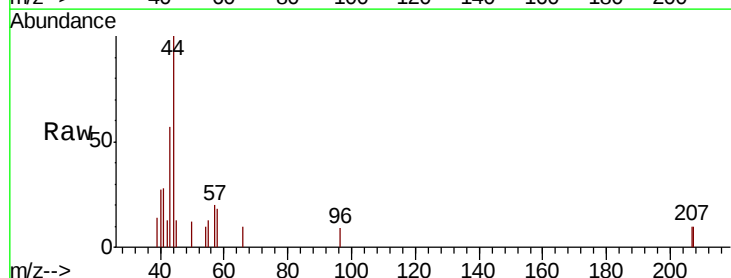
Acq: 18 Dec 2018 16:24

Tgt Ion: 43 Resp: 1871

Ion Ratio Lower Upper

43 100

58 31.9 29.7 44.5



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

8.27

800

600

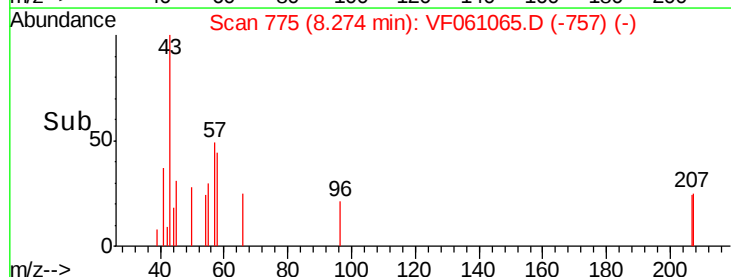
400

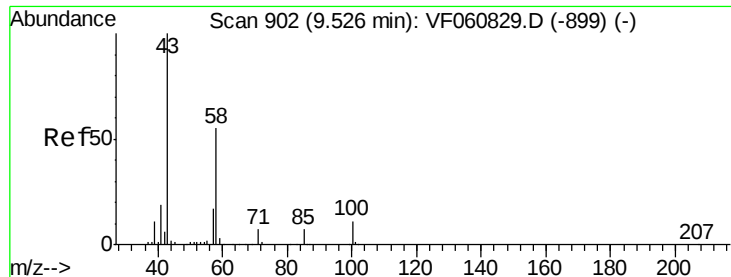
200

0

Time-->

8.20 8.25 8.30 8.35

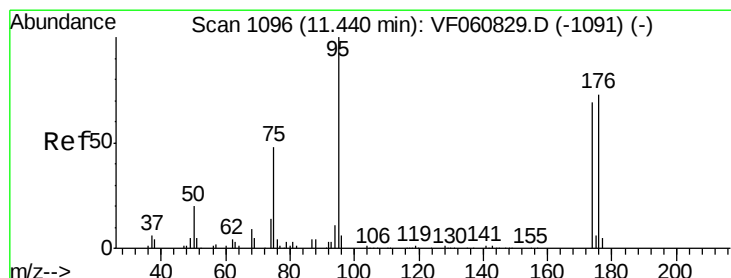
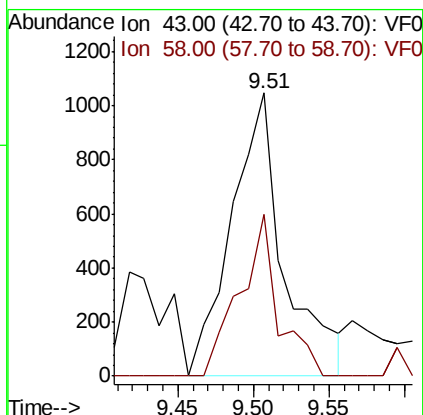
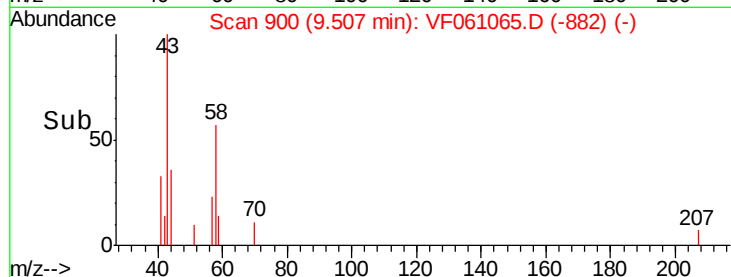
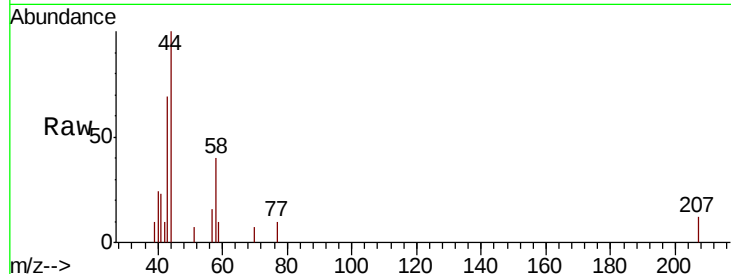




#59
2-Hexanone
Concen: 2.915 ug/l
RT: 9.51 min Scan# 900
Delta R.T. -0.02 min
Lab File: VF061065.D
Acq: 18 Dec 2018 16:24

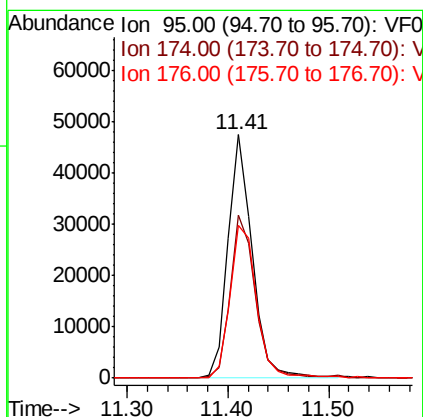
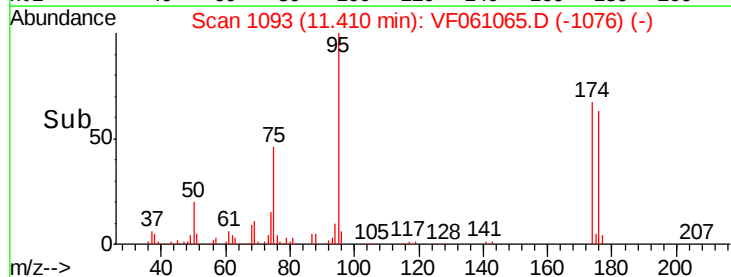
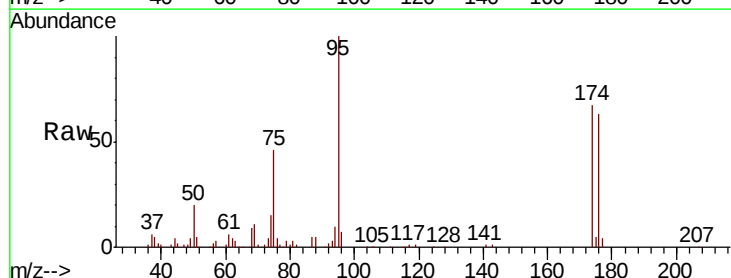
Instrument :
MSVOA_F
ClientSampleId :
290-RT4008-RBR251686RE

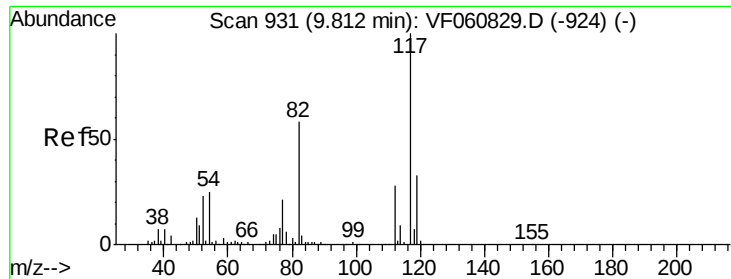
Tot Ion: 43 Resp: 2542
Ion Ratio Lower Upper
43 100
58 57.3 25.6 76.6



#62
4-Bromofluorobenzene
Concen: 25.001 ug/l
RT: 11.41 min Scan# 1093
Delta R.T. -0.03 min
Lab File: VF061065.D
Acq: 18 Dec 2018 16:24

Tgt Ion: 95 Resp: 79400
Ion Ratio Lower Upper
95 100
174 66.7 0.0 138.2
176 62.8 0.0 146.2

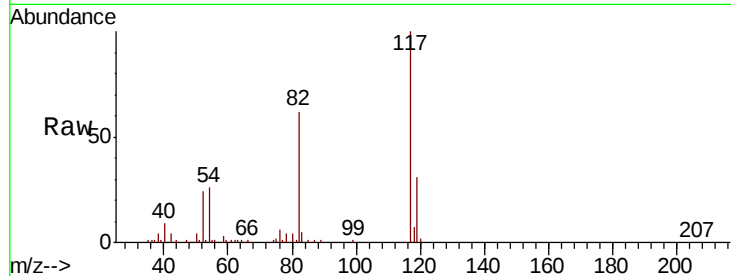




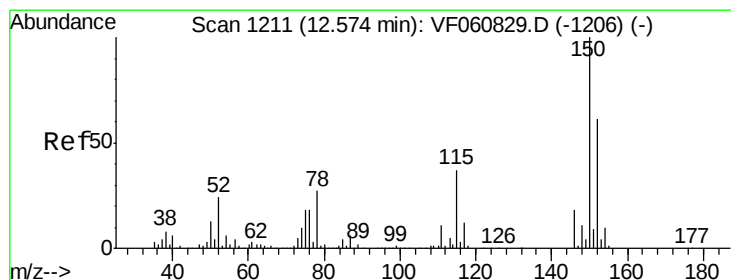
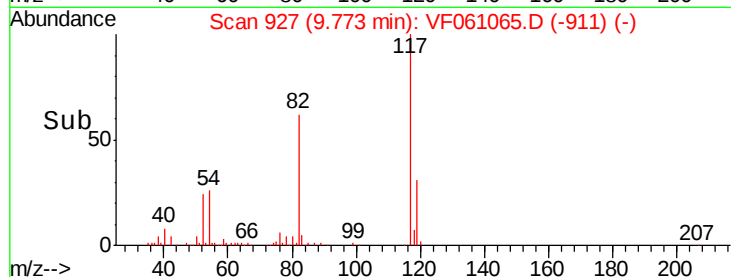
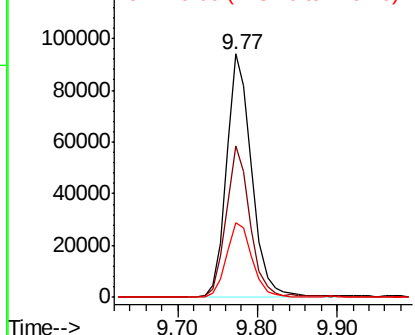
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.77 min Scan# 927
Delta R.T. -0.04 min
Lab File: VF061065.D
Acq: 18 Dec 2018 16:24

Instrument :
MSVOA_F
ClientSampleId :
290-RT4008-RBR251686RE

Tot Ion:117 Resp: 209505
Ion Ratio Lower Upper
117 100
82 62.1 46.6 69.8
119 30.8 26.4 39.6

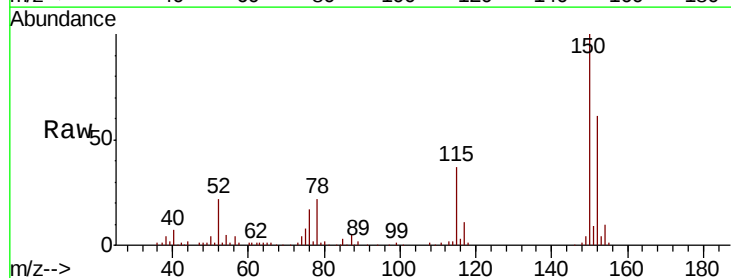


Abundance Ion 117.00 (116.70 to 117.70): V
Ion 82.00 (81.70 to 82.70): VF0
Ion 119.00 (118.70 to 119.70): V

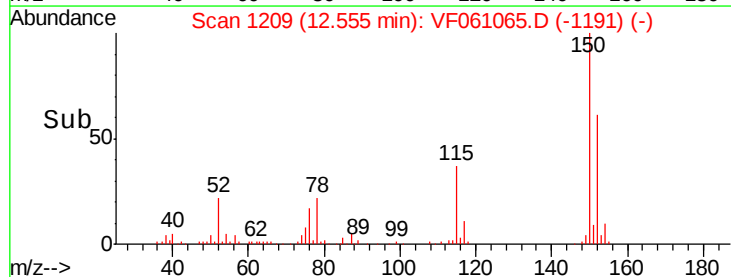
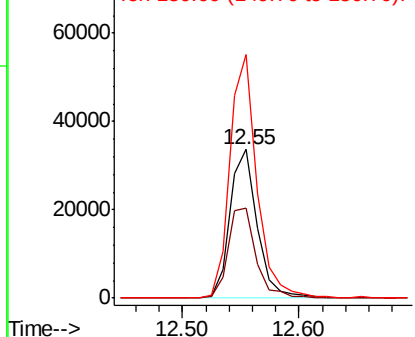


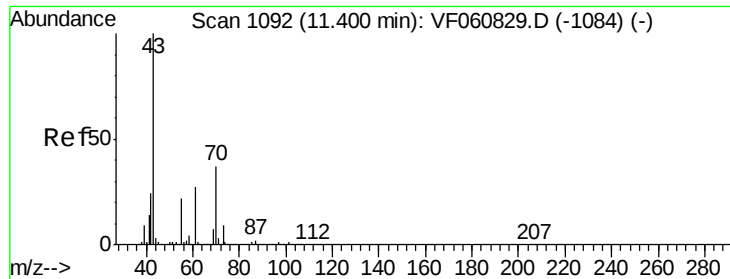
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.55 min Scan# 1209
Delta R.T. -0.02 min
Lab File: VF061065.D
Acq: 18 Dec 2018 16:24

Tgt Ion:152 Resp: 54761
Ion Ratio Lower Upper
152 100
115 60.7 30.1 90.5
150 163.9 0.0 327.6



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





#74

N-amvl acetate

Concen: 2.622 ug/l

RT: 11.37 min Scan# 1089

Delta R.T. -0.03 min

Lab File: VF061065.D

Acq: 18 Dec 2018 16:24

Instrument :

MSVOA_F

ClientSampleId :

290-RT4008-RBR251686RE

Tot Ion: 43 Resp: 2620

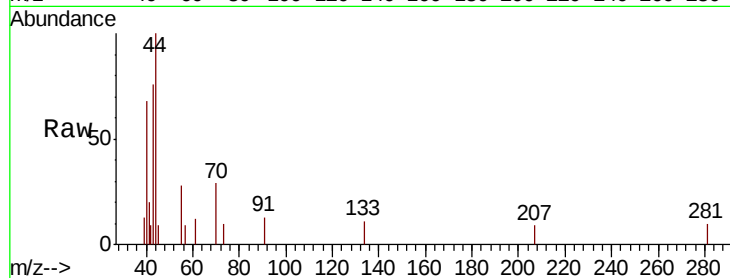
Ion Ratio Lower Upper

43 100

70 38.9 29.6 44.4

55 36.8 17.2 25.8#

61 15.7 21.8 32.6#

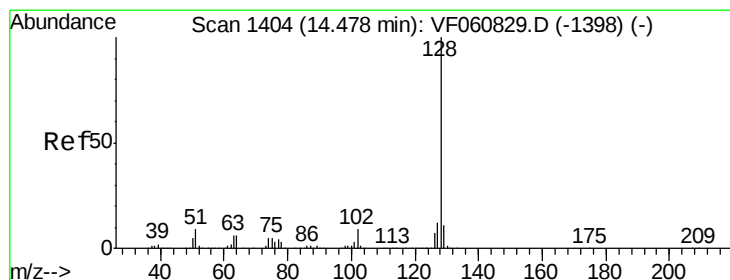
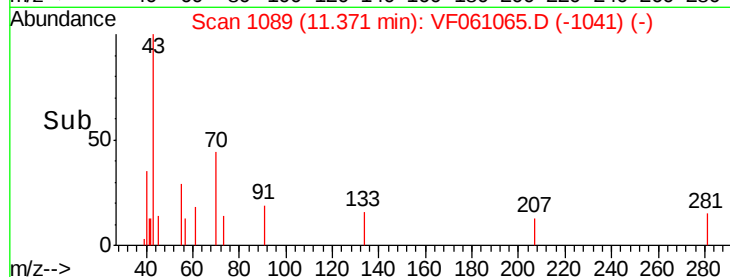
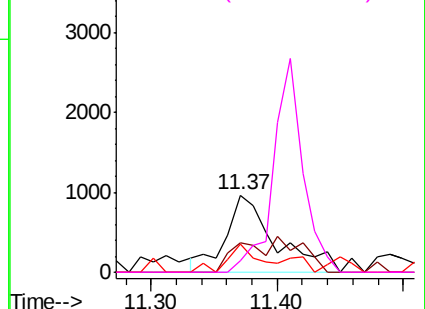


Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 70.00 (69.70 to 70.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 61.00 (60.70 to 61.70): VF0



#95

Naphthalene

Concen: Below Cal

RT: 14.46 min Scan# 1402

Delta R.T. -0.02 min

Lab File: VF061065.D

Acq: 18 Dec 2018 16:24

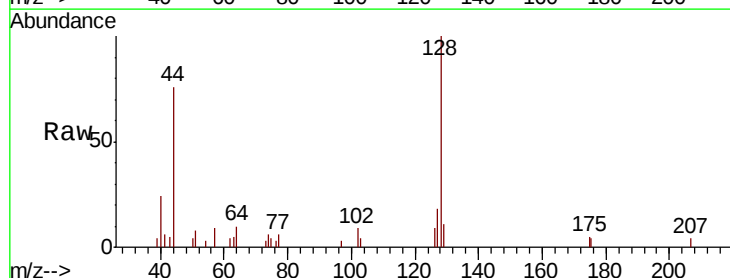
Tgt Ion:128 Resp: 5051

Ion Ratio Lower Upper

128 100

127 17.8 9.9 14.9#

129 11.3 9.1 13.7



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

