

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF092118\
 Data File : VF060312.D
 Acq On : 21 Sep 2018 13:06
 Operator : VA/AP
 Sample : VF0921SBL01
 Misc : 5.00/5mL/MSVOA F/SOIL
 ALS Vial : 32 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0921SBL01

Quant Time: Sep 21 14:36:25 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F091918S.M
 Quant Title : SW846 8260
 QLast Update : Thu Sep 20 02:58:42 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.03	168	281121	50.00	ug/l	-0.01
34) 1,4-Difluorobenzene	5.75	114	466208	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.90	117	402090	50.00	ug/l	-0.01
72) 1,4-Dichlorobenzene-d4	12.63	152	222416	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.01	65	202711	53.55	ug/l	0.00
Spiked Amount			Recovery	=	107.10%	
35) Dibromofluoromethane	4.28	113	219801	52.89	ug/l	-0.01
Spiked Amount			Recovery	=	105.78%	
50) Toluene-d8	7.70	98	538438	49.75	ug/l	-0.01
Spiked Amount			Recovery	=	99.50%	
62) 4-Bromofluorobenzene	11.50	95	234930	50.22	ug/l	0.00
Spiked Amount			Recovery	=	100.44%	

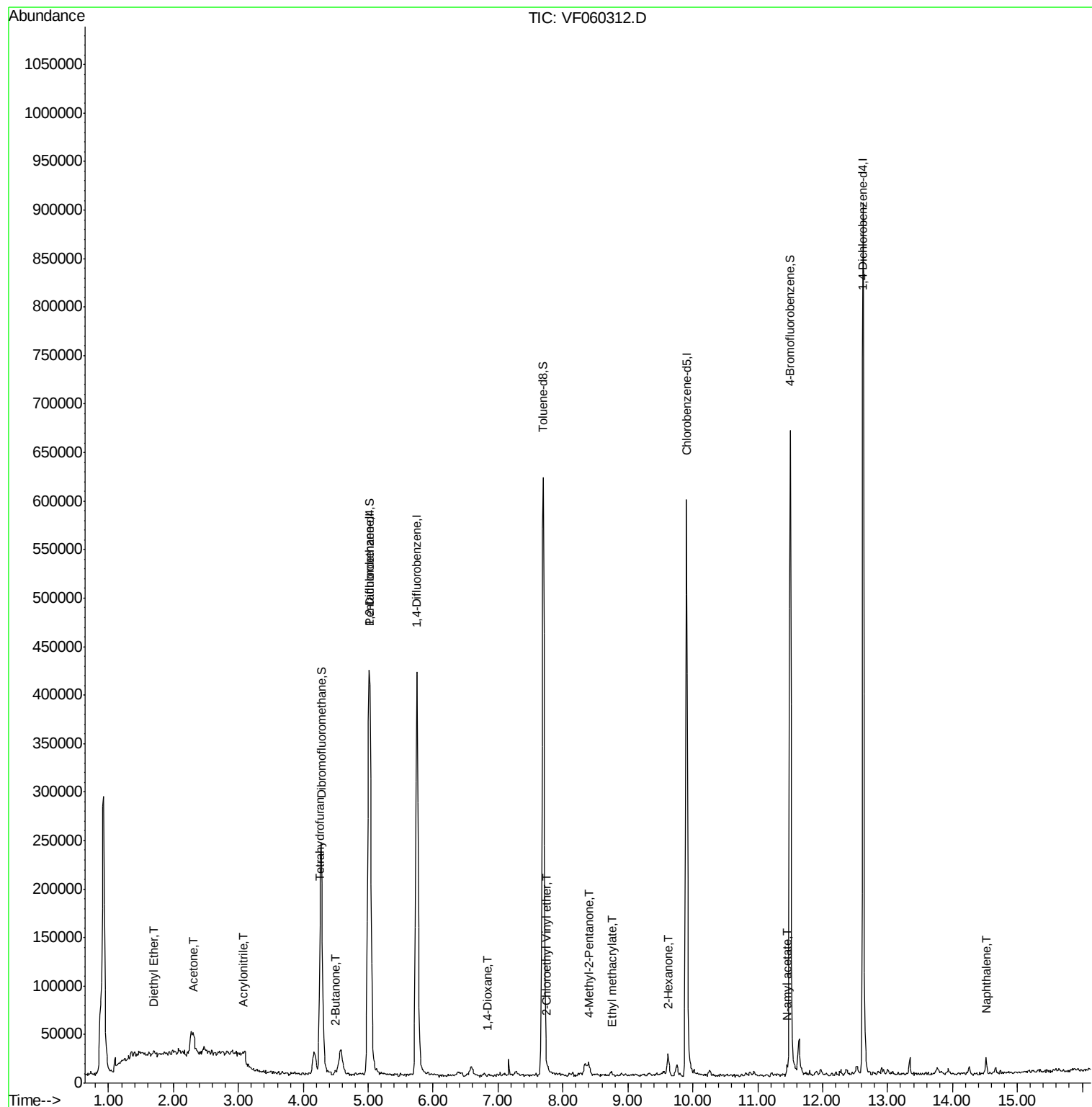
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	0.99	85	529	Below Cal		79
5) Bromomethane	1.28	94	724	Below Cal		88
8) Diethyl Ether	1.69	74	1984	1.639	ug/l	86
11) Tert butyl alcohol	2.66	59	1081	Below Cal	#	1
13) Acrolein	2.05	56	489	Below Cal	#	57
15) Acrylonitrile	3.06	53	1933	3.616	ug/l #	54
16) Acetone	2.32	43	7082	6.643	ug/l	97
17) Carbon Disulfide	1.91	76	295	Below Cal	#	1
20) Methylene Chloride	2.27	84	20040	Below Cal		91
25) 2-Butanone	4.49	43	4658	3.246	ug/l	93
29) Tetrahydrofuran	4.25	42	1034	1.968	ug/l #	56
49) 1,4-Dioxane	6.84	88	66	3.553	ug/l #	1
51) 4-Methyl-2-Pentanone	8.40	43	12456	5.456	ug/l #	86
56) Ethyl methacrylate	8.75	69	3247	1.062	ug/l	94
58) 2-Chloroethyl Vinyl ether	7.76	63	272	1.006	ug/l	100
59) 2-Hexanone	9.62	43	22017	13.544	ug/l	94
74) N-amyl acetate	11.45	43	7599	1.785	ug/l #	90
78) n-propylbenzene	11.68	91	3523	Below Cal		97
85) sec-Butylbenzene	12.38	105	2789	Below Cal		96
86) p-Isopropyltoluene	12.54	119	2331	Below Cal		97
89) n-Butylbenzene	12.91	91	3398	Below Cal		77
95) Naphthalene	14.52	128	11542	1.181	ug/l #	96

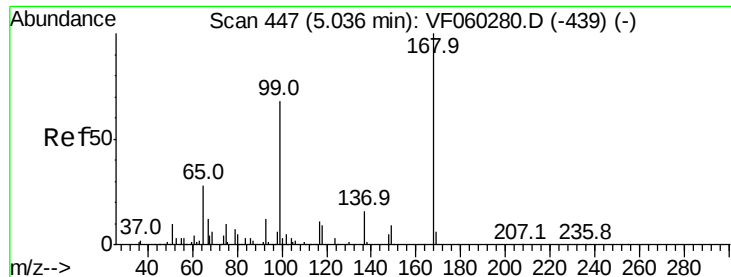
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Thu Sep 20 02:58:42 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.03 min Scan# 446

Delta R.T. -0.01 min

Lab File: VF060312.D

Acq: 21 Sep 2018 13:06

Instrument :

MSVOA_F

ClientSampleId :

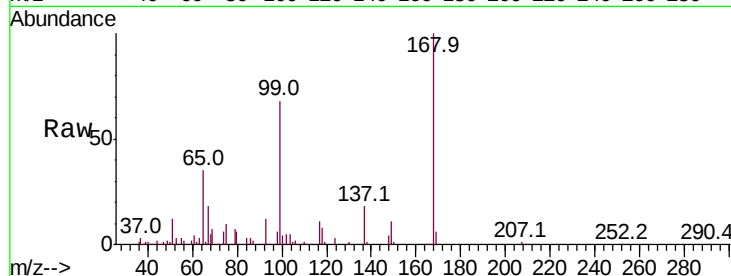
VF0921SBL01

Tot Ion:168 Resp: 281121

Ion Ratio Lower Upper

168 100

99 68.3 54.8 82.2



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

5.03

100000

80000

60000

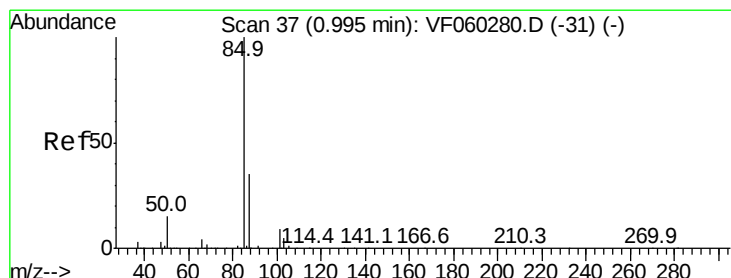
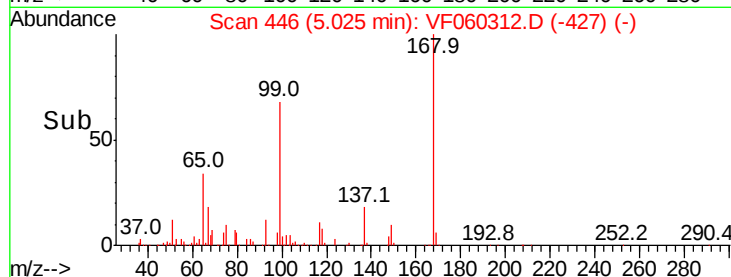
40000

20000

0

4.90 5.00 5.10 5.20

Time-->



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 0.99 min Scan# 37

Delta R.T. -0.00 min

Lab File: VF060312.D

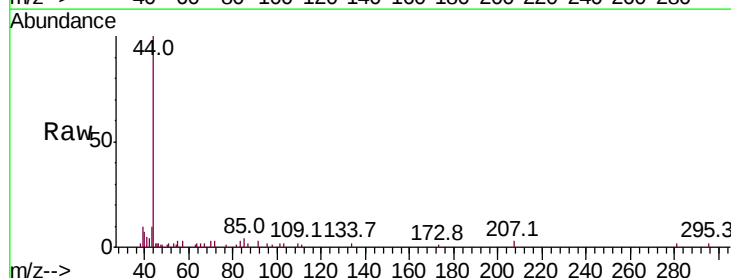
Acq: 21 Sep 2018 13:06

Tgt Ion: 85 Resp: 529

Ion Ratio Lower Upper

85 100

87 46.7 17.3 52.0



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

0.99

300

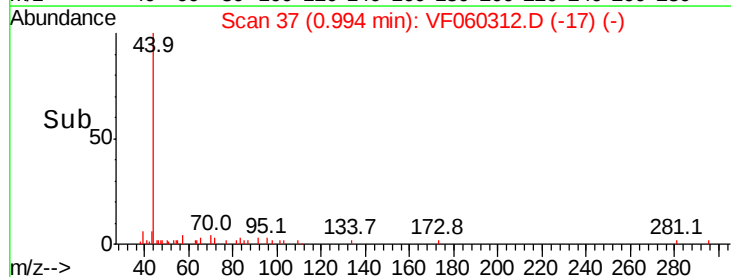
200

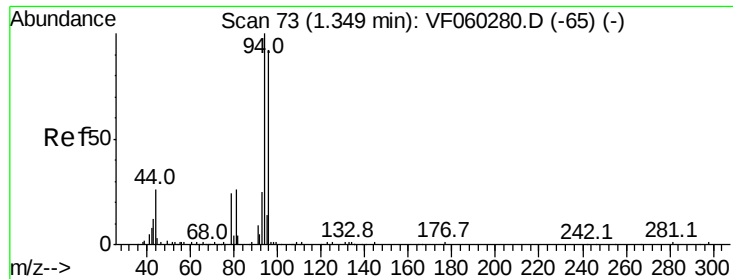
100

0

0.95 1.00

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 1.28 min Scan# 66

Delta R.T. -0.07 min

Lab File: VF060312.D

Acq: 21 Sep 2018 13:06

Instrument :

MSVOA_F

ClientSampleId :

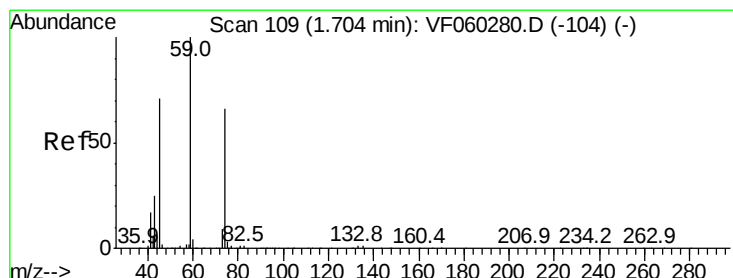
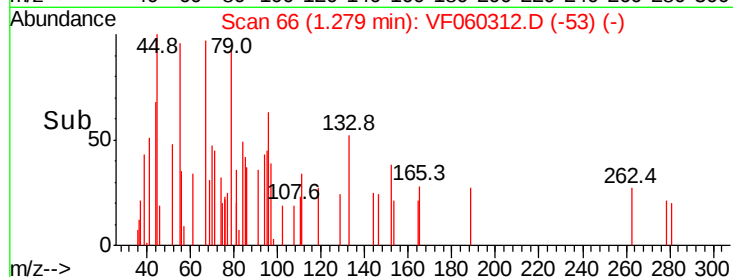
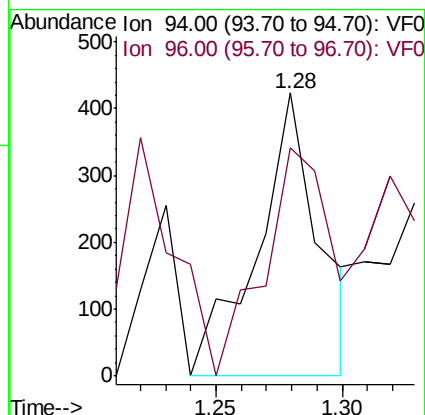
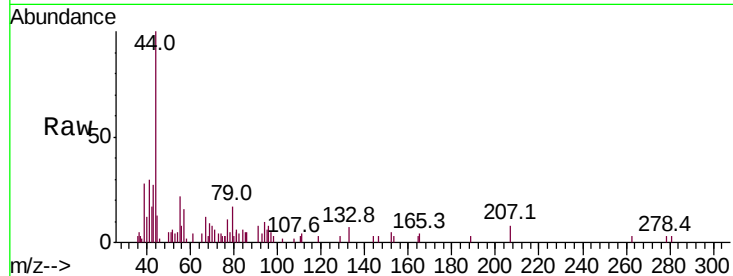
VF0921SBL01

Tot Ion: 94 Resp: 724

Ion Ratio Lower Upper

94 100

96 80.6 73.9 110.9



#8

Diethyl Ether

Concen: 1.639 ug/l

RT: 1.69 min Scan# 108

Delta R.T. -0.01 min

Lab File: VF060312.D

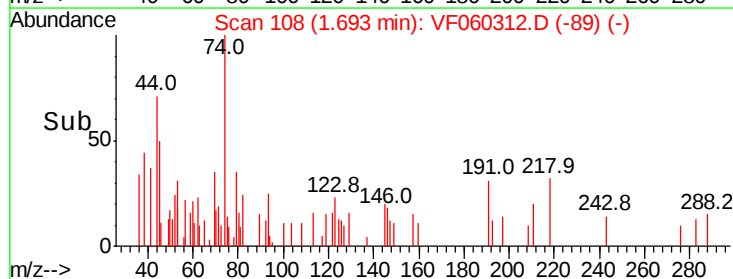
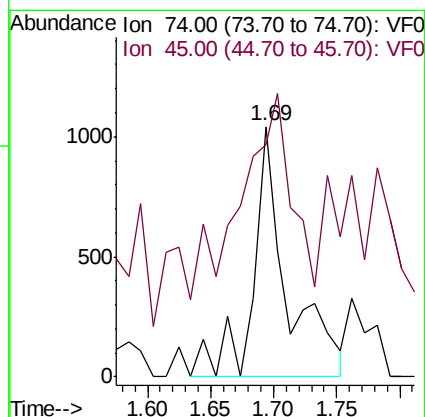
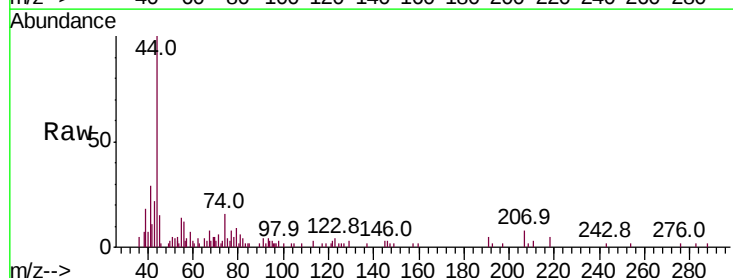
Acq: 21 Sep 2018 13:06

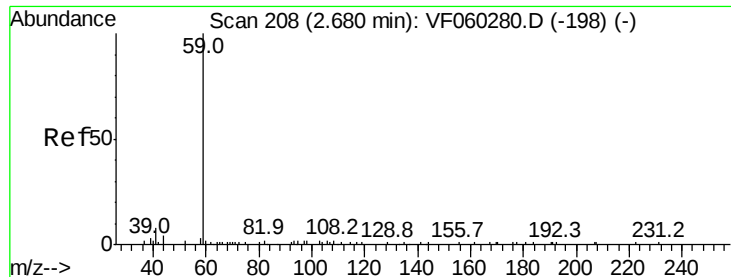
Tgt Ion: 74 Resp: 1984

Ion Ratio Lower Upper

74 100

45 92.7 53.9 161.7



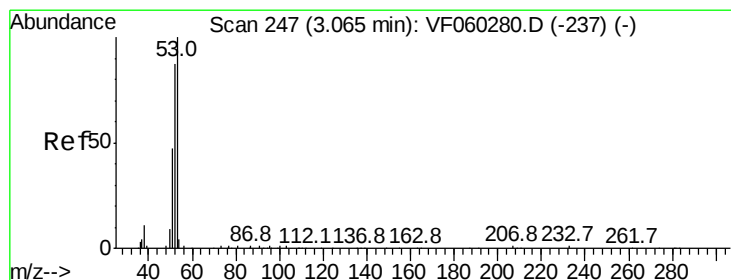
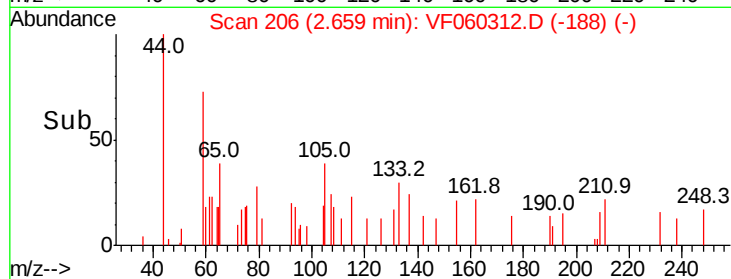
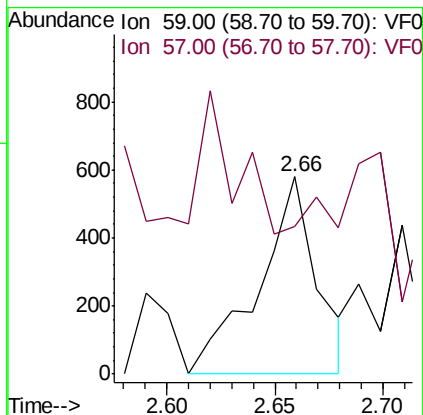
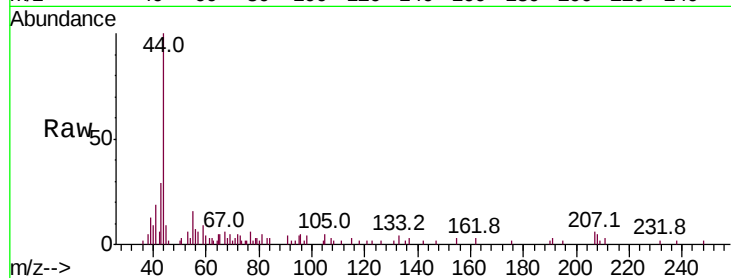


#11

Tert butyl alcohol
 Concen: Below Cal
 RT: 2.66 min Scan# 206
 Delta R.T. -0.02 min
 Lab File: VF060312.D
 Acq: 21 Sep 2018 13:06

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0921SBL01

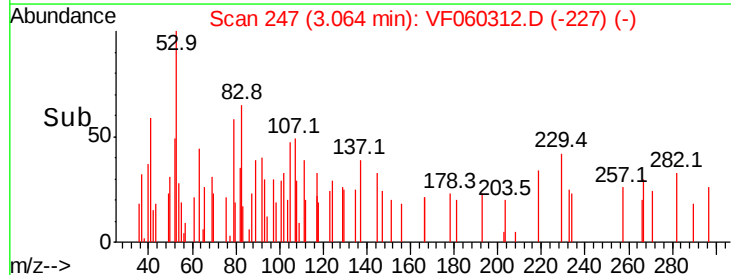
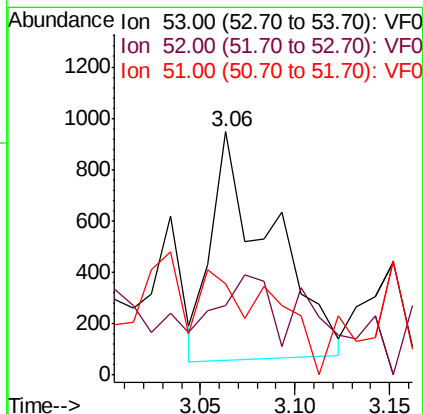
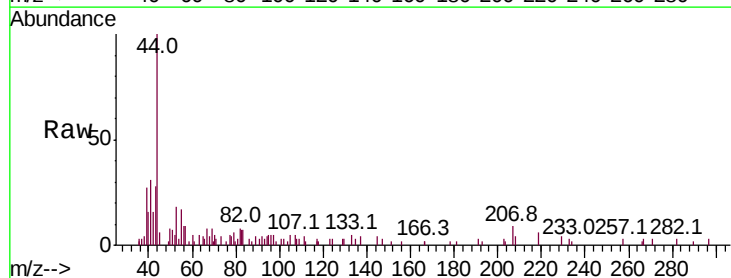
Tot Ion: 59 Resp: 1081
 Ion Ratio Lower Upper
 59 100
 57 75.1 12.4 18.6#

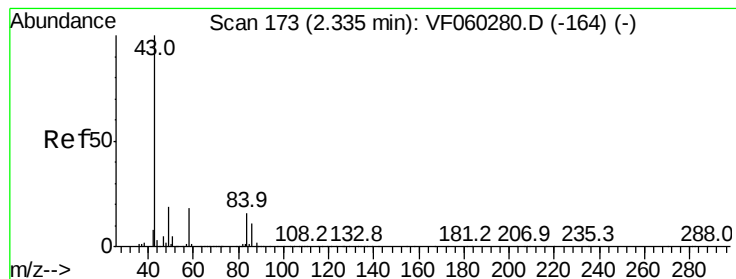


#15

Acrylonitrile
 Concen: 3.616 ug/l
 RT: 3.06 min Scan# 247
 Delta R.T. -0.00 min
 Lab File: VF060312.D
 Acq: 21 Sep 2018 13:06

Tgt Ion: 53 Resp: 1933
 Ion Ratio Lower Upper
 53 100
 52 28.5 69.5 104.3#
 51 37.3 38.1 57.1#





#16

Acetone

Concen: 6.643 ug/l

RT: 2.32 min Scan# 172

Delta R.T. -0.01 min

Lab File: VF060312.D

Acq: 21 Sep 2018 13:06

Instrument :

MSVOA_F

ClientSampleId :

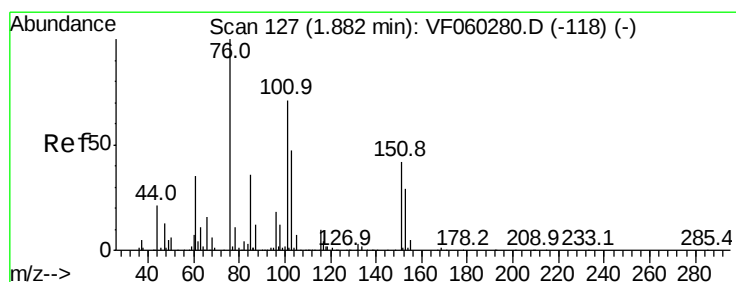
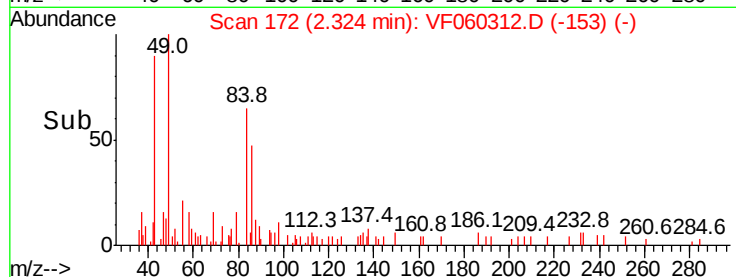
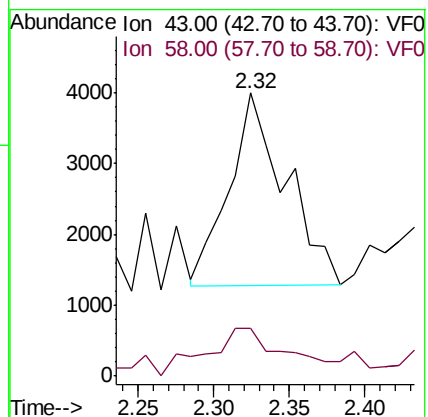
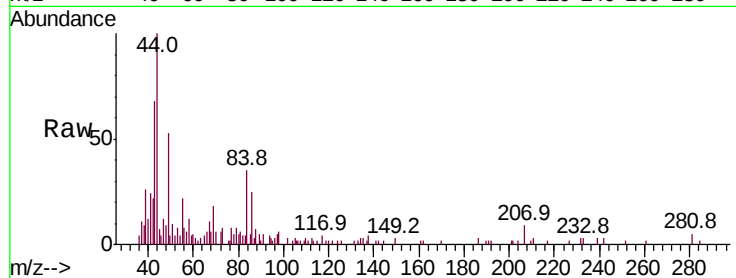
VF0921SBL01

Tot Ion: 43 Resp: 7082

Ion Ratio Lower Upper

43 100

58 16.9 14.5 21.7



#17

Carbon Disulfide

Concen: Below Cal

RT: 1.91 min Scan# 130

Delta R.T. 0.03 min

Lab File: VF060312.D

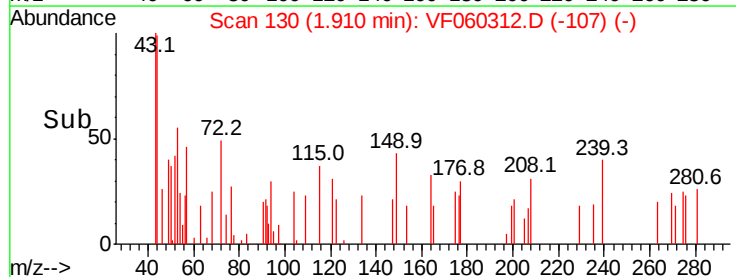
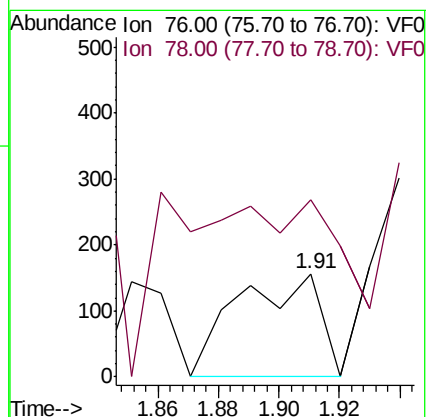
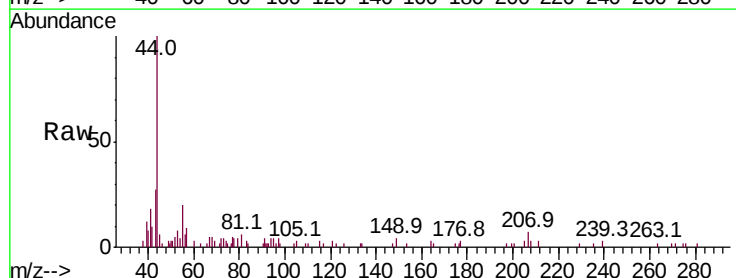
Acq: 21 Sep 2018 13:06

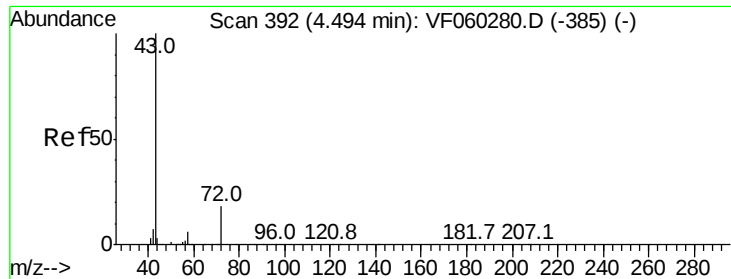
Tgt Ion: 76 Resp: 295

Ion Ratio Lower Upper

76 100

78 172.4 9.4 14.0#





#25

2-Butanone

Concen: 3.246 ug/l

RT: 4.49 min Scan# 392

Delta R.T. -0.00 min

Lab File: VF060312.D

Acq: 21 Sep 2018 13:06

Instrument :

MSVOA_F

ClientSampleId :

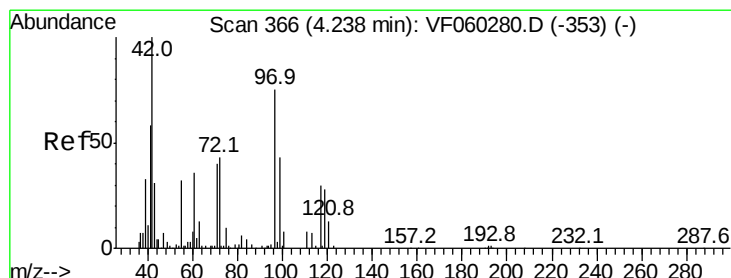
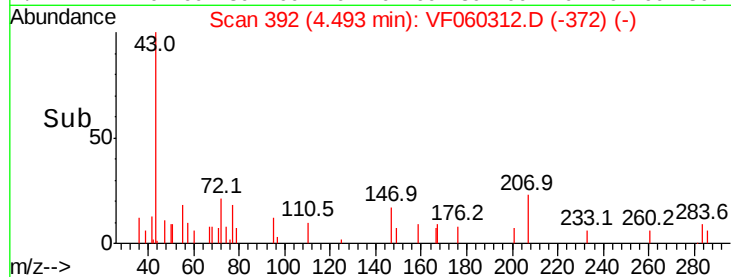
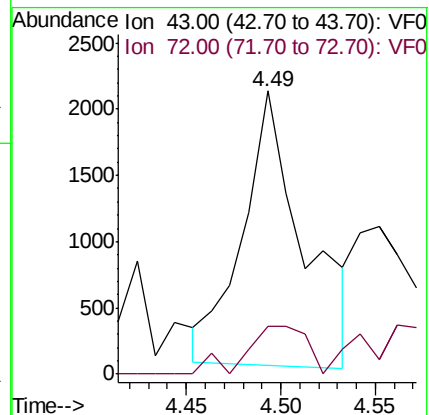
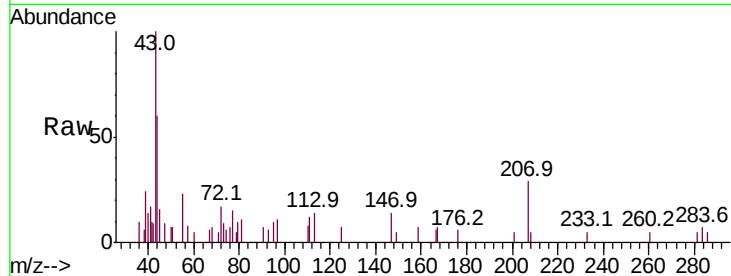
VF0921SBL01

Tot Ion: 43 Resp: 4658

Ion Ratio Lower Upper

43 100

72 16.9 16.2 24.2



#29

Tetrahydrofuran

Concen: 1.968 ug/l

RT: 4.25 min Scan# 367

Delta R.T. 0.01 min

Lab File: VF060312.D

Acq: 21 Sep 2018 13:06

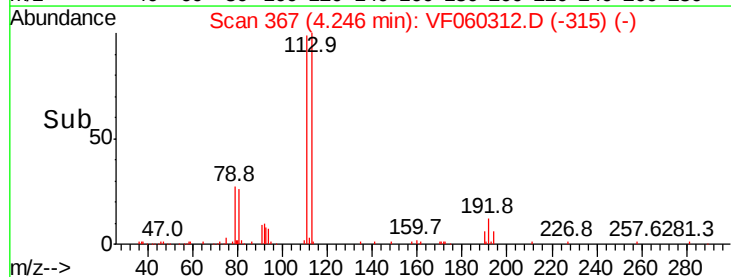
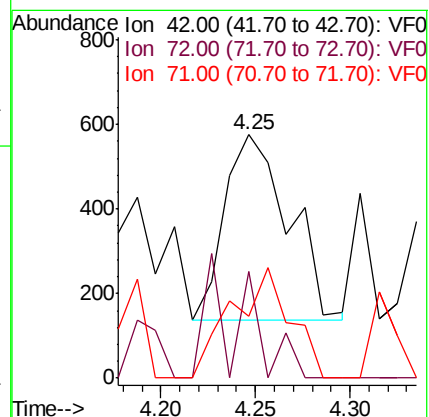
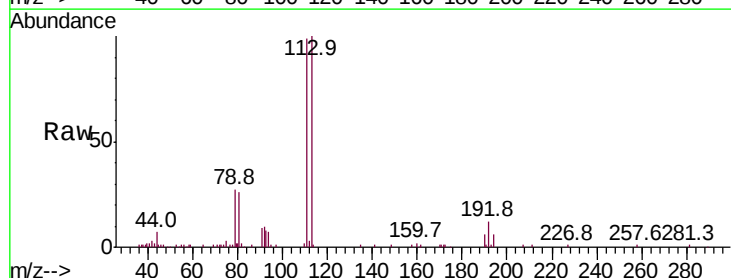
Tgt Ion: 42 Resp: 1034

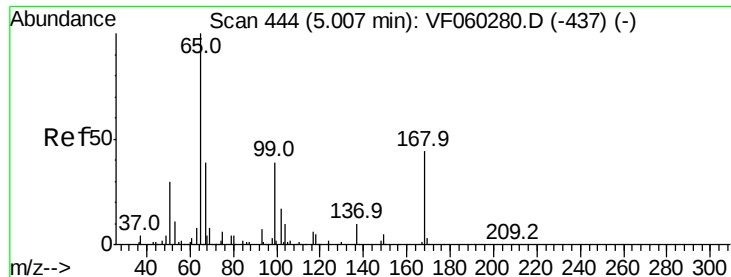
Ion Ratio Lower Upper

42 100

72 0.0 32.6 49.0#

71 54.5 32.7 49.1#





#33

1,2-Dichloroethane-d4

Concen: 53.551 ug/l

RT: 5.01 min Scan# 444

Delta R.T. -0.00 min

Lab File: VF060312.D

Acq: 21 Sep 2018 13:06

Instrument :

MSVOA_F

ClientSampleId :

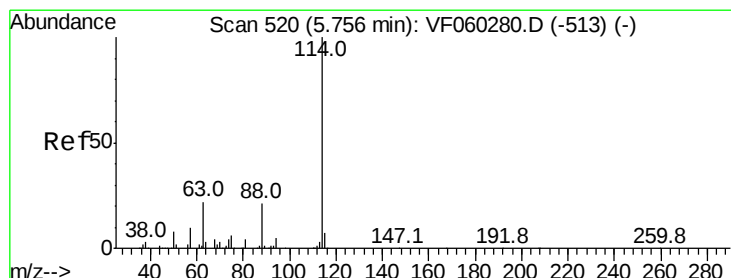
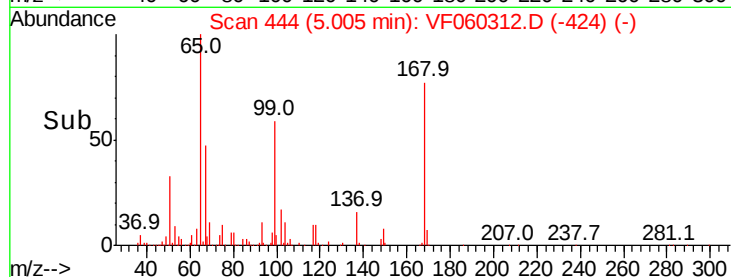
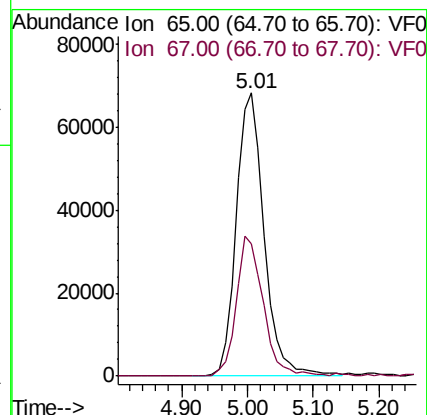
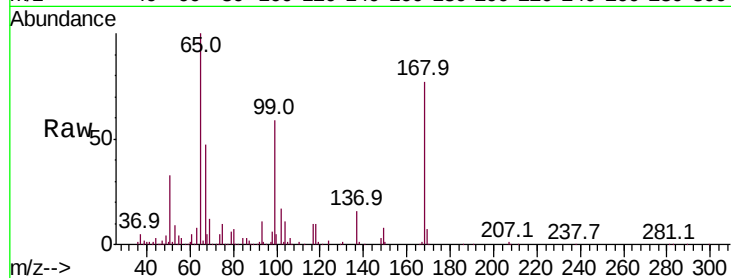
VF0921SBL01

Tot Ion: 65 Resp: 202711

Ion Ratio Lower Upper

65 100

67 47.0 0.0 94.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.75 min Scan# 520

Delta R.T. -0.00 min

Lab File: VF060312.D

Acq: 21 Sep 2018 13:06

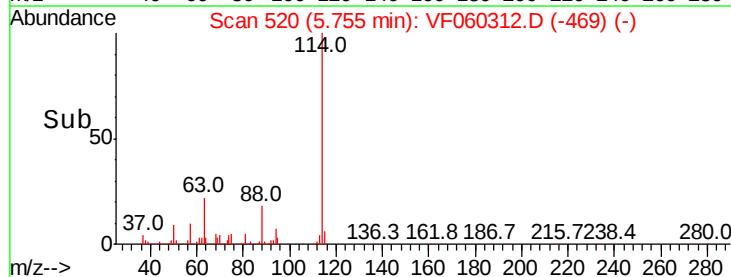
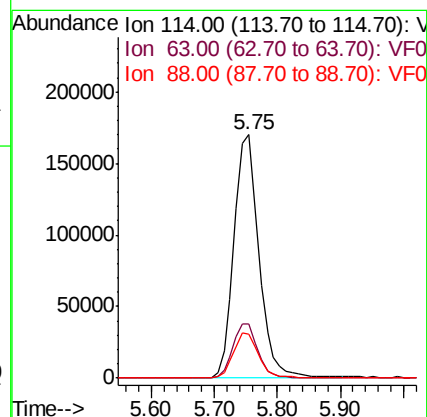
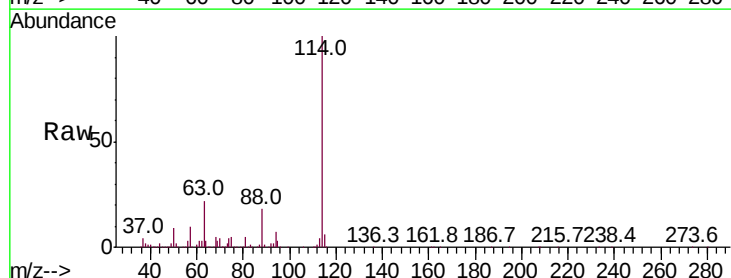
Tgt Ion: 114 Resp: 466208

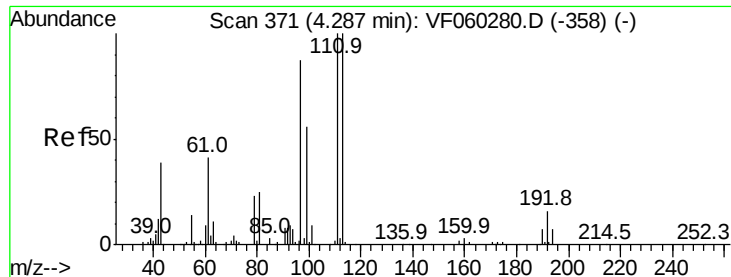
Ion Ratio Lower Upper

114 100

63 22.3 0.0 43.8

88 18.0 0.0 41.2





#35

Dibromofluoromethane

Concen: 52.889 ug/l

RT: 4.28 min Scan# 370

Delta R.T. -0.01 min

Lab File: VF060312.D

Acq: 21 Sep 2018 13:06

Instrument :

MSVOA_F

ClientSampleId :

VF0921SBL01

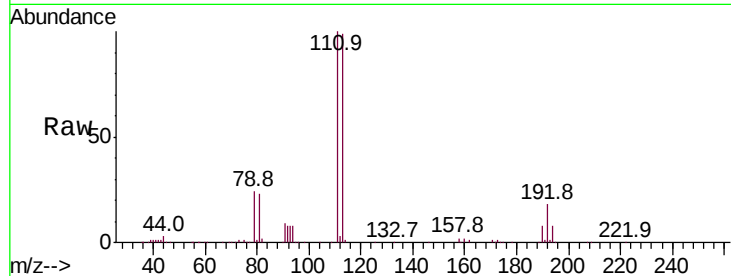
Tot Ion:113 Resp: 219801

Ion Ratio Lower Upper

113 100

111 100.3 79.6 119.4

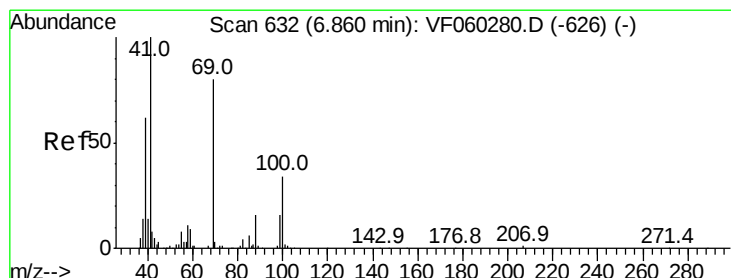
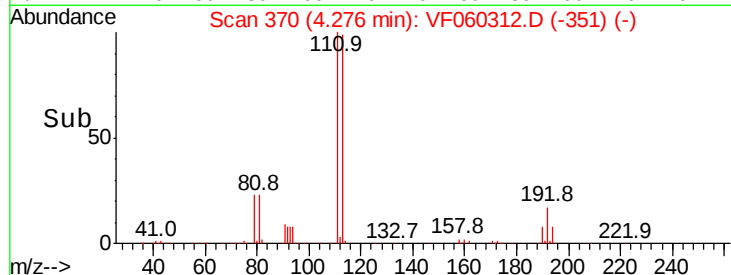
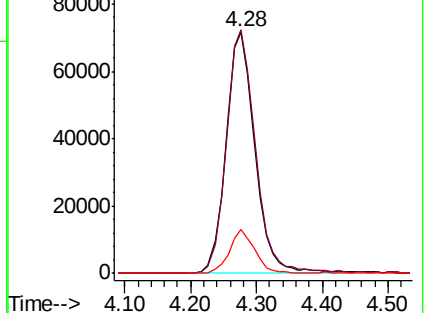
192 18.2 13.0 19.6



Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V



#49

1,4-Dioxane

Concen: 3.553 ug/l

RT: 6.84 min Scan# 630

Delta R.T. -0.02 min

Lab File: VF060312.D

Acq: 21 Sep 2018 13:06

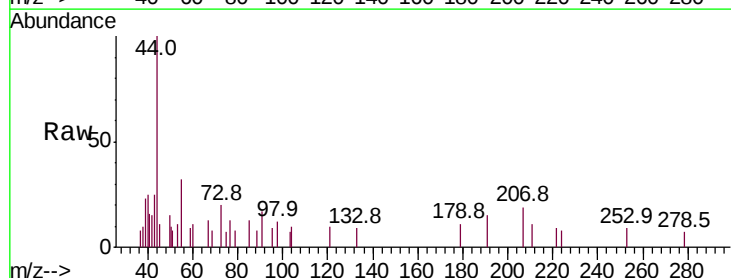
Tgt Ion: 88 Resp: 66

Ion Ratio Lower Upper

88 100

43 314.3 40.2 60.4#

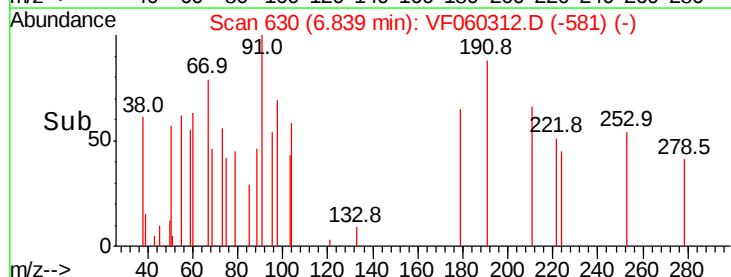
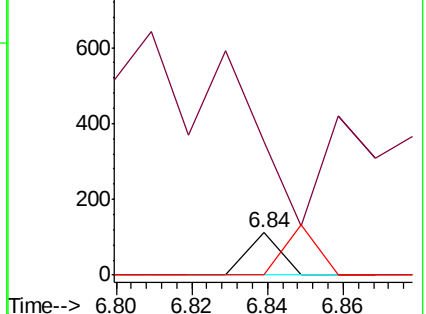
58 0.0 56.7 85.1#

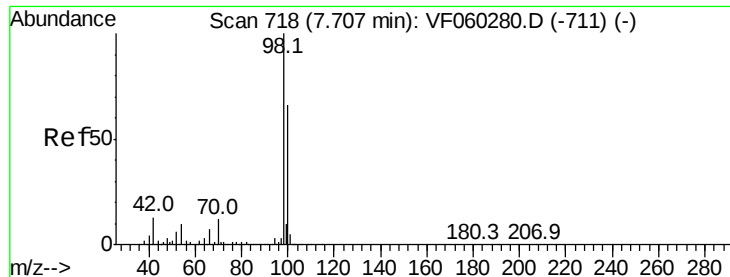


Abundance Ion 88.00 (87.70 to 88.70): VF0

Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0





#50

Toluene-d8

Concen: 49.750 ug/l

RT: 7.70 min Scan# 717

Delta R.T. -0.01 min

Lab File: VF060312.D

Acq: 21 Sep 2018 13:06

Instrument :

MSVOA_F

ClientSampleId :

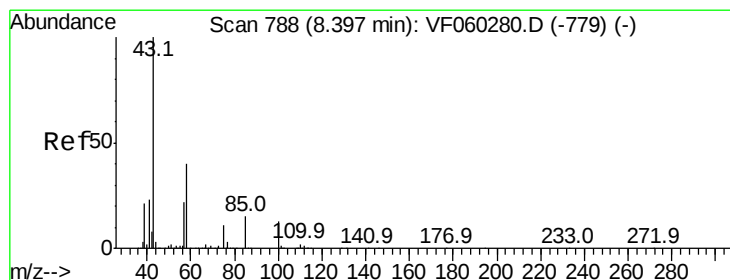
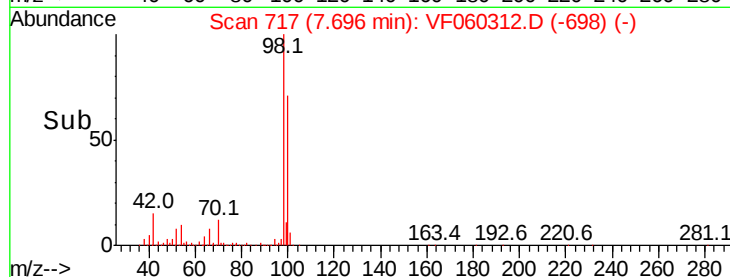
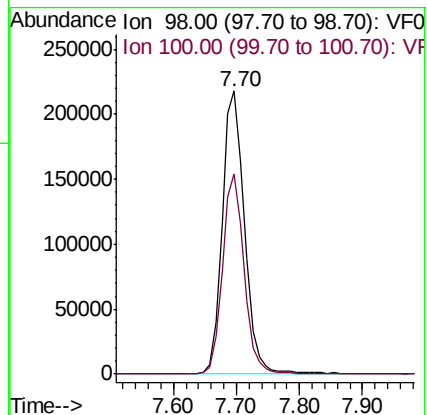
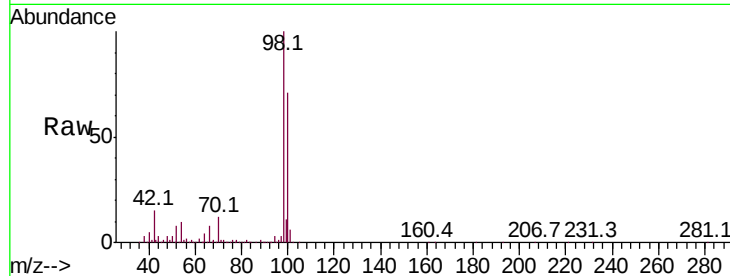
VF0921SBL01

Tot Ion: 98 Resp: 538438

Ion Ratio Lower Upper

98 100

100 70.9 53.0 79.6



#51

4-Methyl-2-Pentanone

Concen: 5.456 ug/l

RT: 8.40 min Scan# 788

Delta R.T. -0.00 min

Lab File: VF060312.D

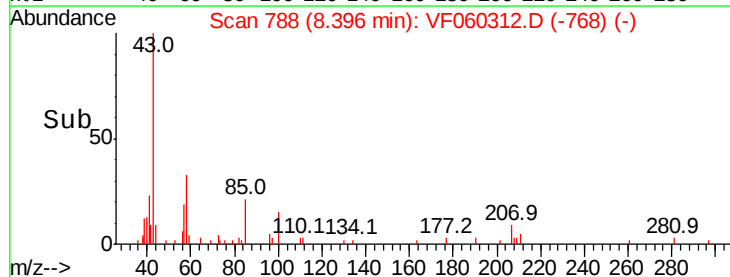
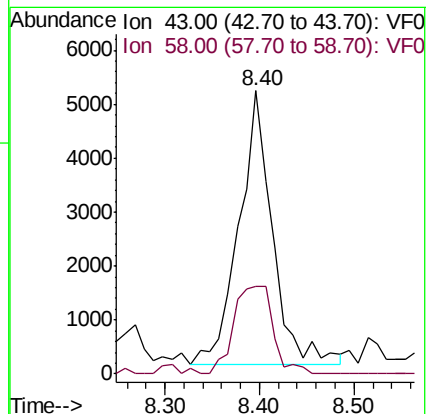
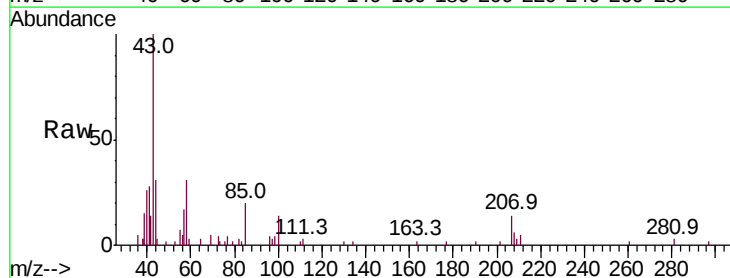
Acq: 21 Sep 2018 13:06

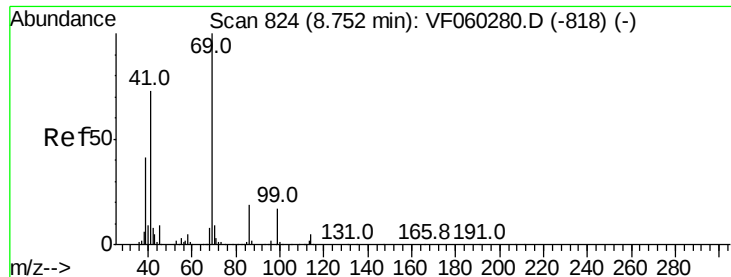
Tgt Ion: 43 Resp: 12456

Ion Ratio Lower Upper

43 100

58 31.0 31.8 47.8#





#56

Ethyl methacrylate

Concen: 1.062 ug/l

RT: 8.75 min Scan# 824

Delta R.T. -0.00 min

Lab File: VF060312.D

Acq: 21 Sep 2018 13:06

Instrument :

MSVOA_F

ClientSampleId :

VF0921SBL01

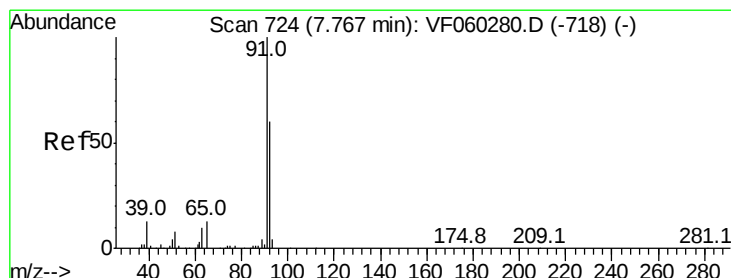
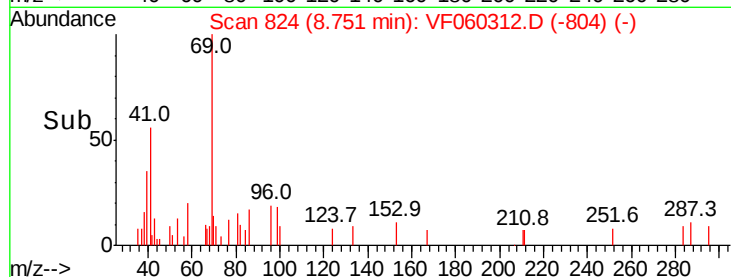
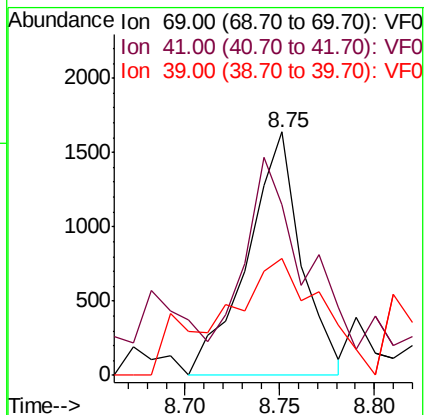
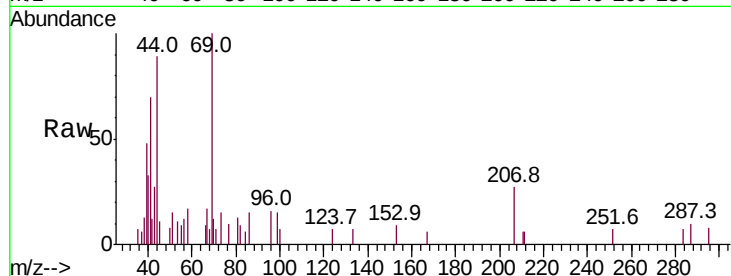
Tot Ion: 69 Resp: 3247

Ion Ratio Lower Upper

69 100

41 70.2 59.4 89.2

39 47.8 33.5 50.3



#58

2-Chloroethyl Vinyl ether

Concen: 1.006 ug/l

RT: 7.76 min Scan# 723

Delta R.T. -0.01 min

Lab File: VF060312.D

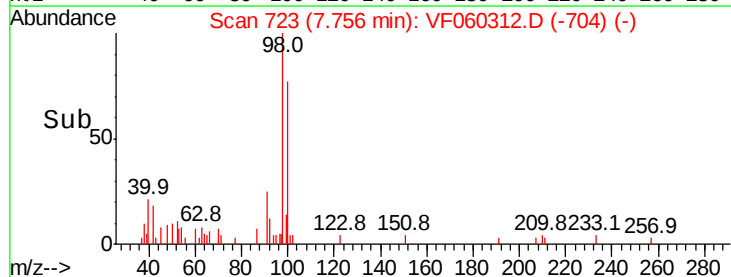
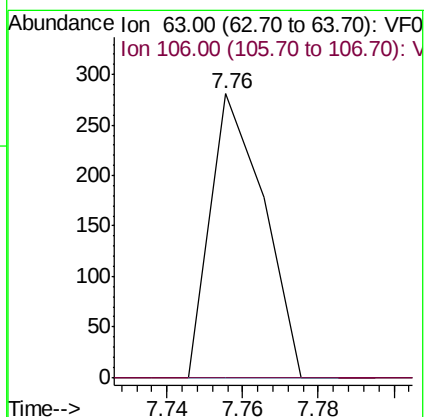
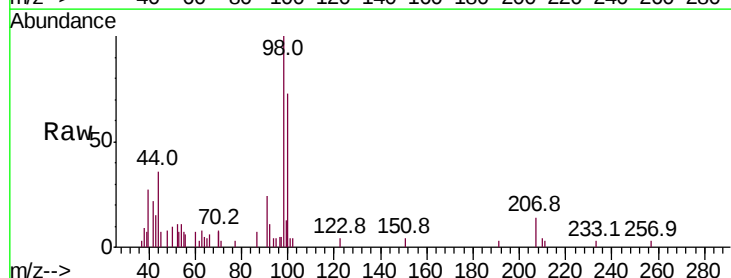
Acq: 21 Sep 2018 13:06

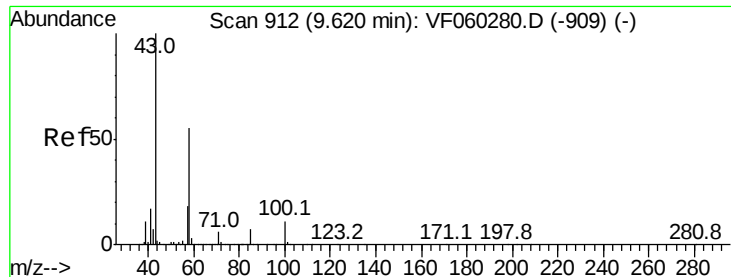
Tgt Ion: 63 Resp: 272

Ion Ratio Lower Upper

63 100

106 0.0 0.0 0.0

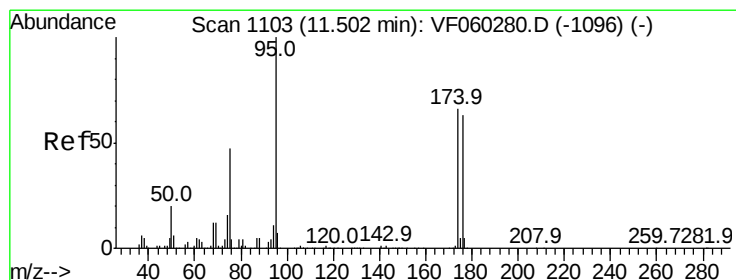
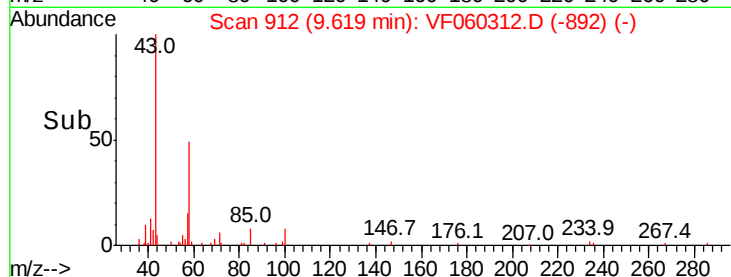
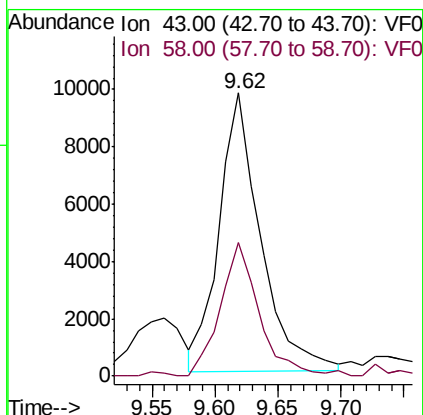
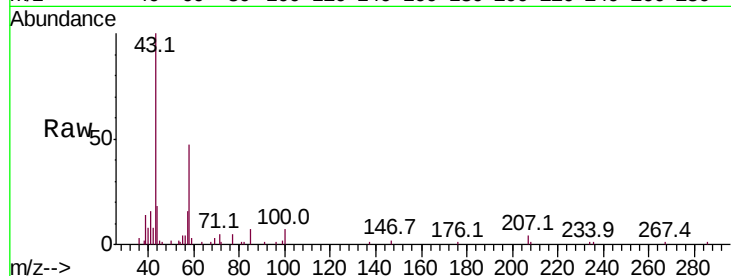




#59
2-Hexanone
Concen: 13.544 ug/l
RT: 9.62 min Scan# 912
Delta R.T. -0.00 min
Lab File: VF060312.D
Acq: 21 Sep 2018 13:06

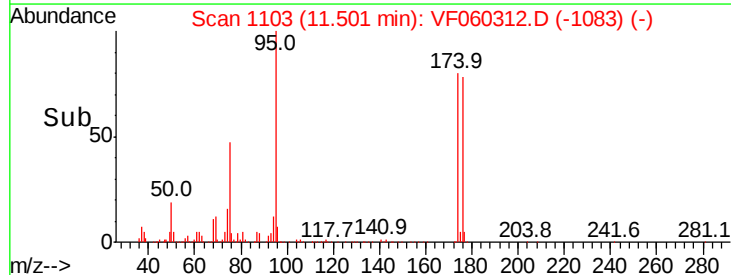
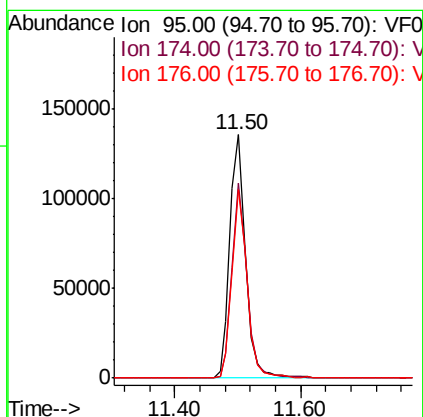
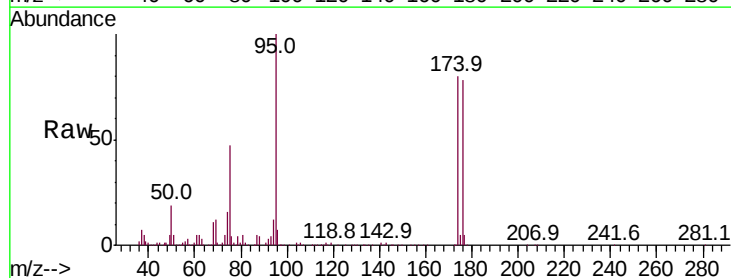
Instrument :
MSVOA_F
ClientSampleId :
VF0921SBL01

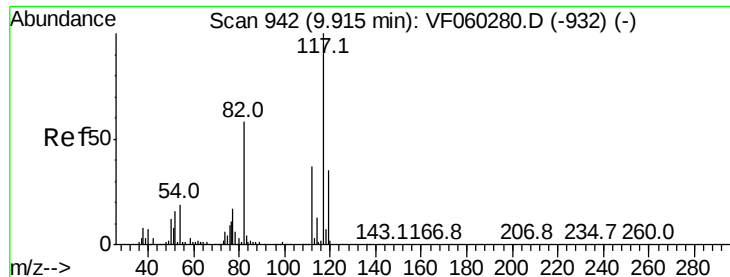
Tot Ion: 43 Resp: 22017
Ion Ratio Lower Upper
43 100
58 47.2 25.9 77.6



#62
4-Bromofluorobenzene
Concen: 50.216 ug/l
RT: 11.50 min Scan# 1103
Delta R.T. -0.00 min
Lab File: VF060312.D
Acq: 21 Sep 2018 13:06

Tgt Ion: 95 Resp: 234930
Ion Ratio Lower Upper
95 100
174 79.9 0.0 131.2
176 77.6 0.0 126.6

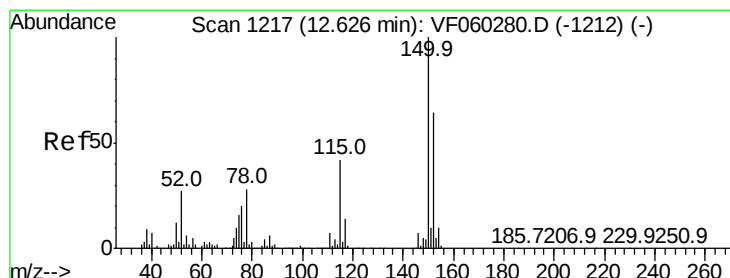
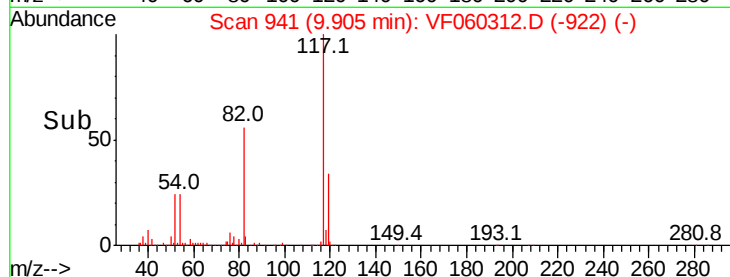
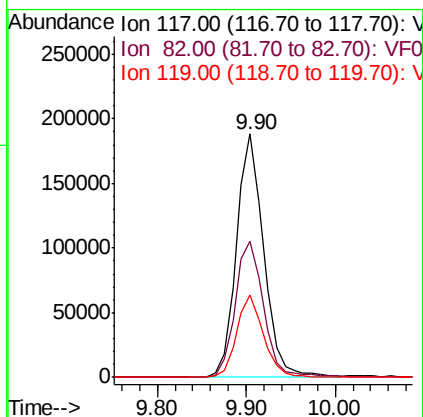
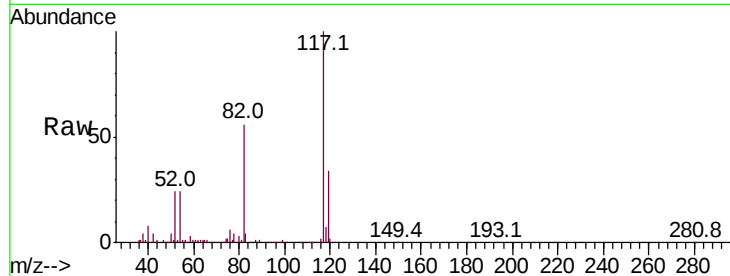




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.90 min Scan# 941
Delta R.T. -0.01 min
Lab File: VF060312.D
Acq: 21 Sep 2018 13:06

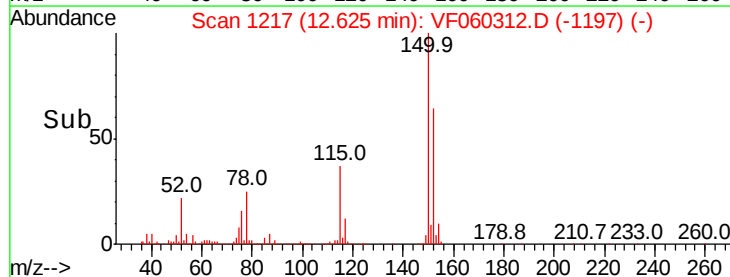
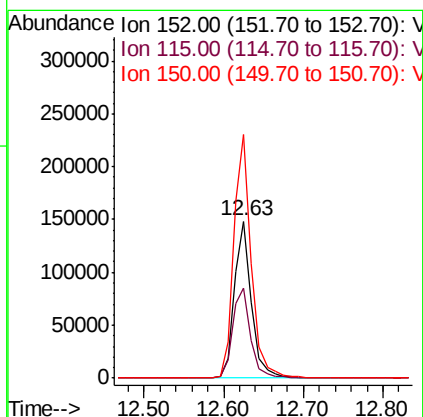
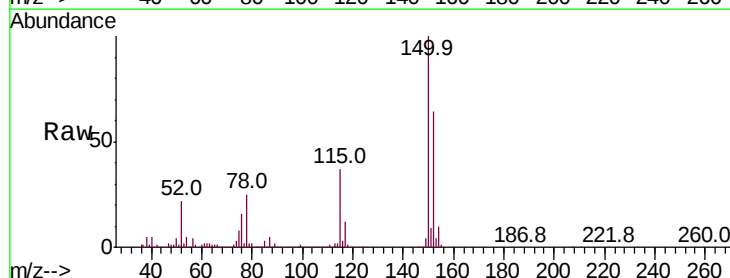
Instrument :
MSVOA_F
ClientSampleId :
VF0921SBL01

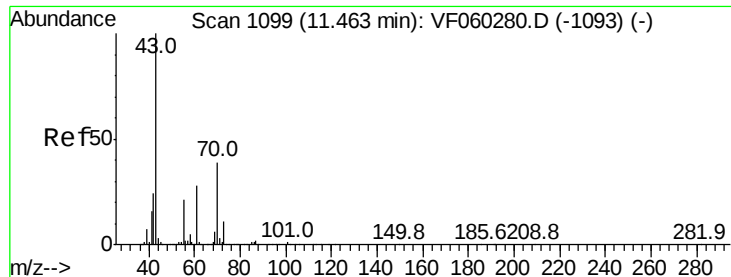
Tot Ion:117 Resp: 402090
Ion Ratio Lower Upper
117 100
82 55.8 46.2 69.2
119 33.7 27.8 41.6



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.63 min Scan# 1217
Delta R.T. -0.00 min
Lab File: VF060312.D
Acq: 21 Sep 2018 13:06

Tgt Ion:152 Resp: 222416
Ion Ratio Lower Upper
152 100
115 57.4 32.6 97.8
150 155.4 0.0 314.2





#74

N-amvl acetate

Concen: 1.785 ug/l

RT: 11.45 min Scan# 1098

Delta R.T. -0.01 min

Lab File: VF060312.D

Acq: 21 Sep 2018 13:06

Instrument :

MSVOA_F

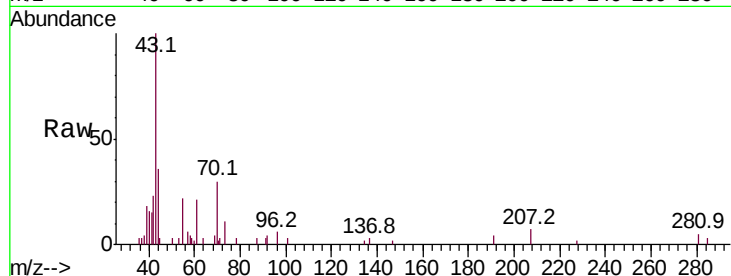
ClientSampleId :

VF0921SBL01

Tot Ion: 43 Resp: 7599

Ion Ratio Lower Upper

43	100		
70	32.7	31.4	47.2
55	22.3	16.8	25.2
61	20.8	22.6	34.0



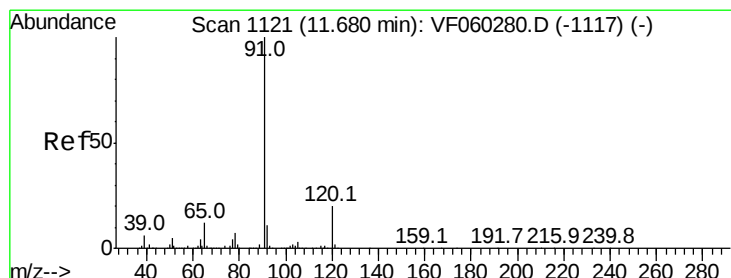
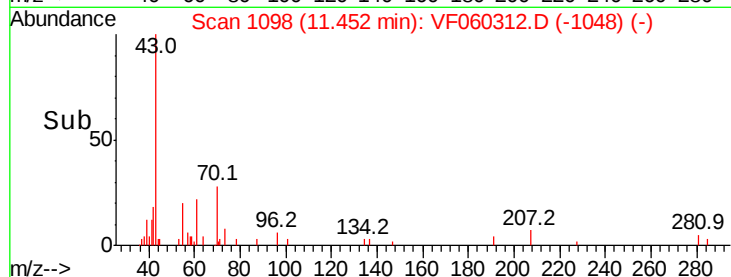
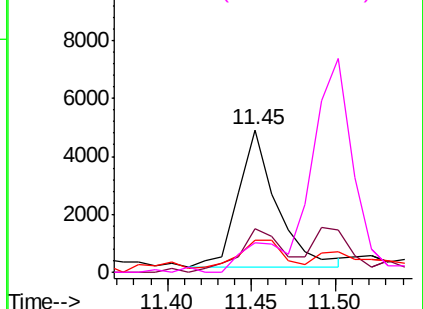
Abundance

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



#78

n-propylbenzene

Concen: Below Cal

RT: 11.68 min Scan# 1121

Delta R.T. -0.00 min

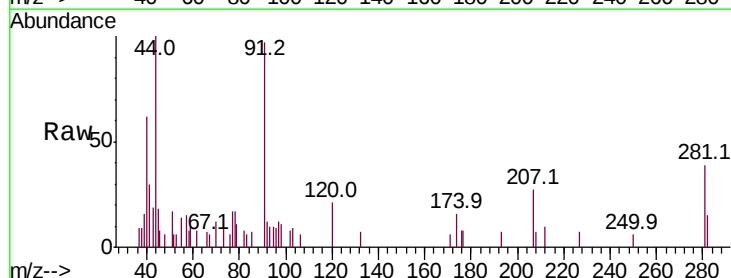
Lab File: VF060312.D

Acq: 21 Sep 2018 13:06

Tgt Ion: 91 Resp: 3523

Ion Ratio Lower Upper

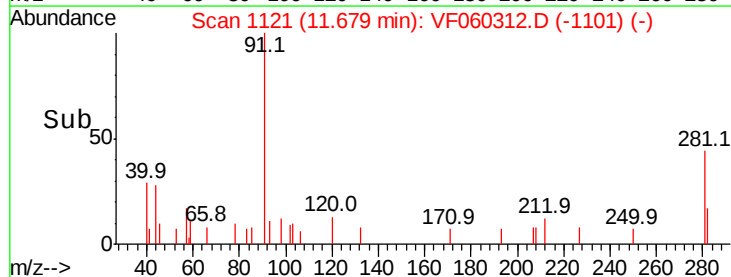
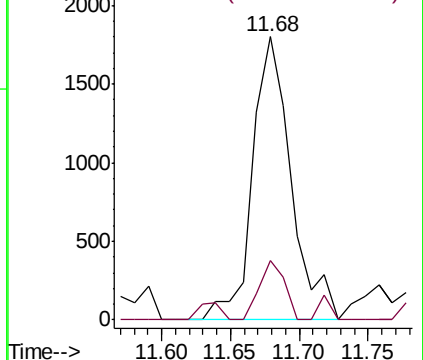
91	100		
120	21.1	10.0	29.8

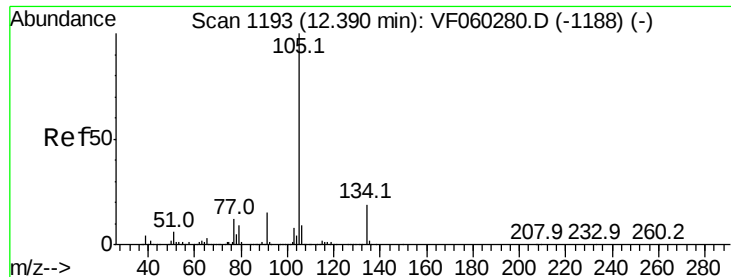


Abundance

Ion 91.00 (90.70 to 91.70): VF0

Ion 120.00 (119.70 to 120.70): V





#85

sec-Butylbenzene

Concen: Below Cal

RT: 12.38 min Scan# 1192

Delta R.T. -0.01 min

Lab File: VF060312.D

Acq: 21 Sep 2018 13:06

Instrument :

MSVOA_F

ClientSampleId :

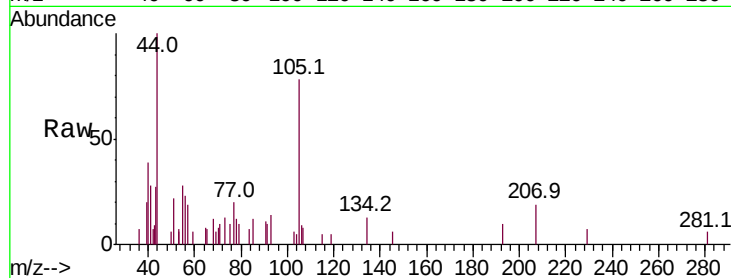
VF0921SBL01

Tot Ion:105 Resp: 2789

Ion Ratio Lower Upper

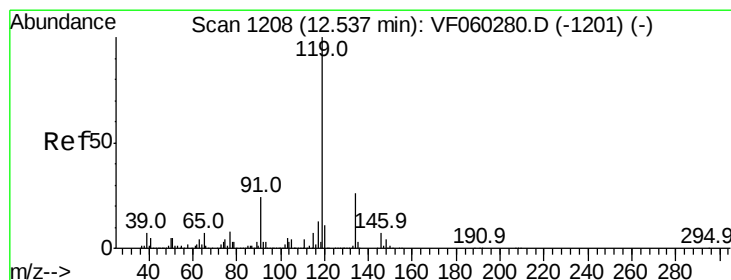
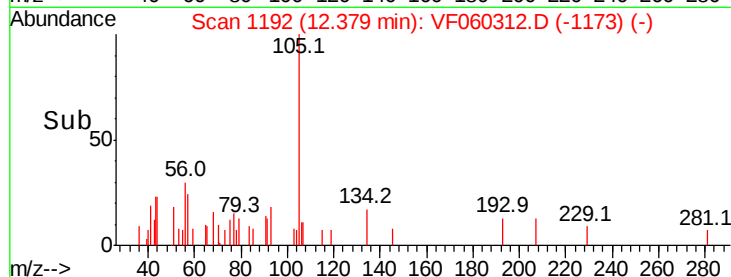
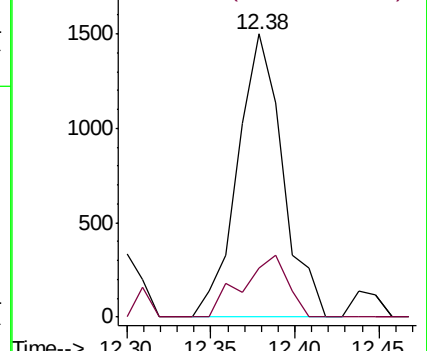
105 100

134 17.3 9.6 28.6



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: Below Cal

RT: 12.54 min Scan# 1208

Delta R.T. -0.00 min

Lab File: VF060312.D

Acq: 21 Sep 2018 13:06

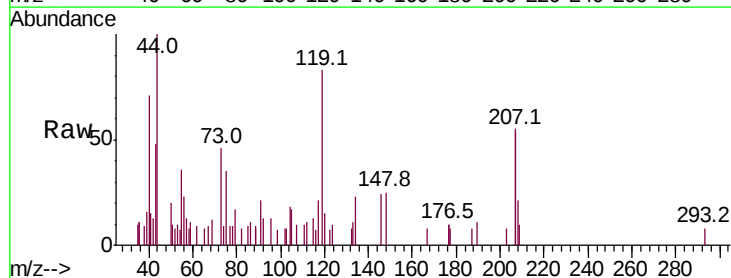
Tgt Ion:119 Resp: 2331

Ion Ratio Lower Upper

119 100

134 27.3 12.9 38.7

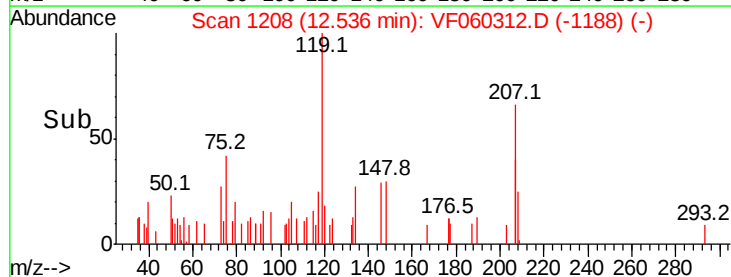
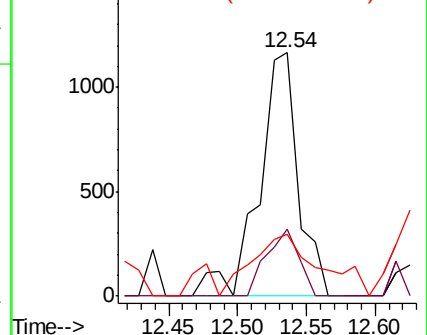
91 25.6 11.9 35.7

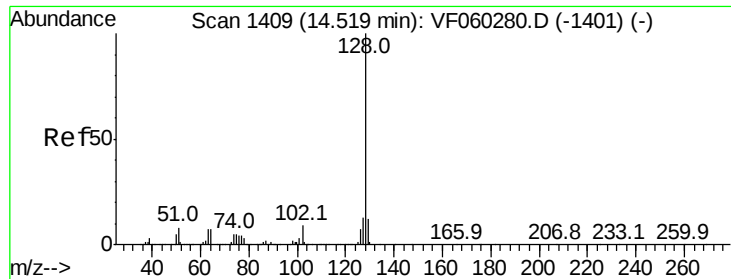


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): VF0





#95

Naphthalene

Concen: 1.181 ug/l

RT: 14.52 min Scan# 1409

Delta R.T. -0.00 min

Lab File: VF060312.D

Acq: 21 Sep 2018 13:06

Instrument :

MSVOA_F

ClientSampleId :

VF0921SBL01

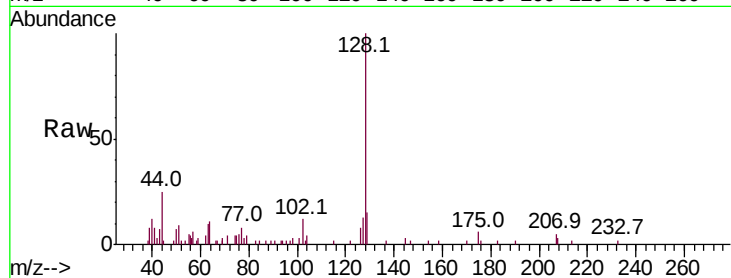
Tot Ion:128 Resp: 11542

Ion Ratio Lower Upper

128 100

127 12.7 10.1 15.1

129 15.1 9.8 14.8#



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

