

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF092818\
 Data File : VF060369.D
 Acq On : 28 Sep 2018 16:05
 Operator : VA/AP
 Sample : VF0928SBL01
 Misc : 5.00/5mL/MSVOA F/SOIL
 ALS Vial : 32 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0928SBL01

Quant Time: Sep 29 00:15:43 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	214703	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.76	114	367197	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.91	117	316468	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.63	152	193738	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.01	65	166985	57.76	ug/l	0.00
Spiked Amount	50.000		Recovery	=	115.52%	
35) Dibromofluoromethane	4.28	113	176954	54.06	ug/l	0.00
Spiked Amount	50.000		Recovery	=	108.12%	
50) Toluene-d8	7.70	98	402778	47.25	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.50%	
62) 4-Bromofluorobenzene	11.50	95	190790	51.78	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.56%	

Target Compounds

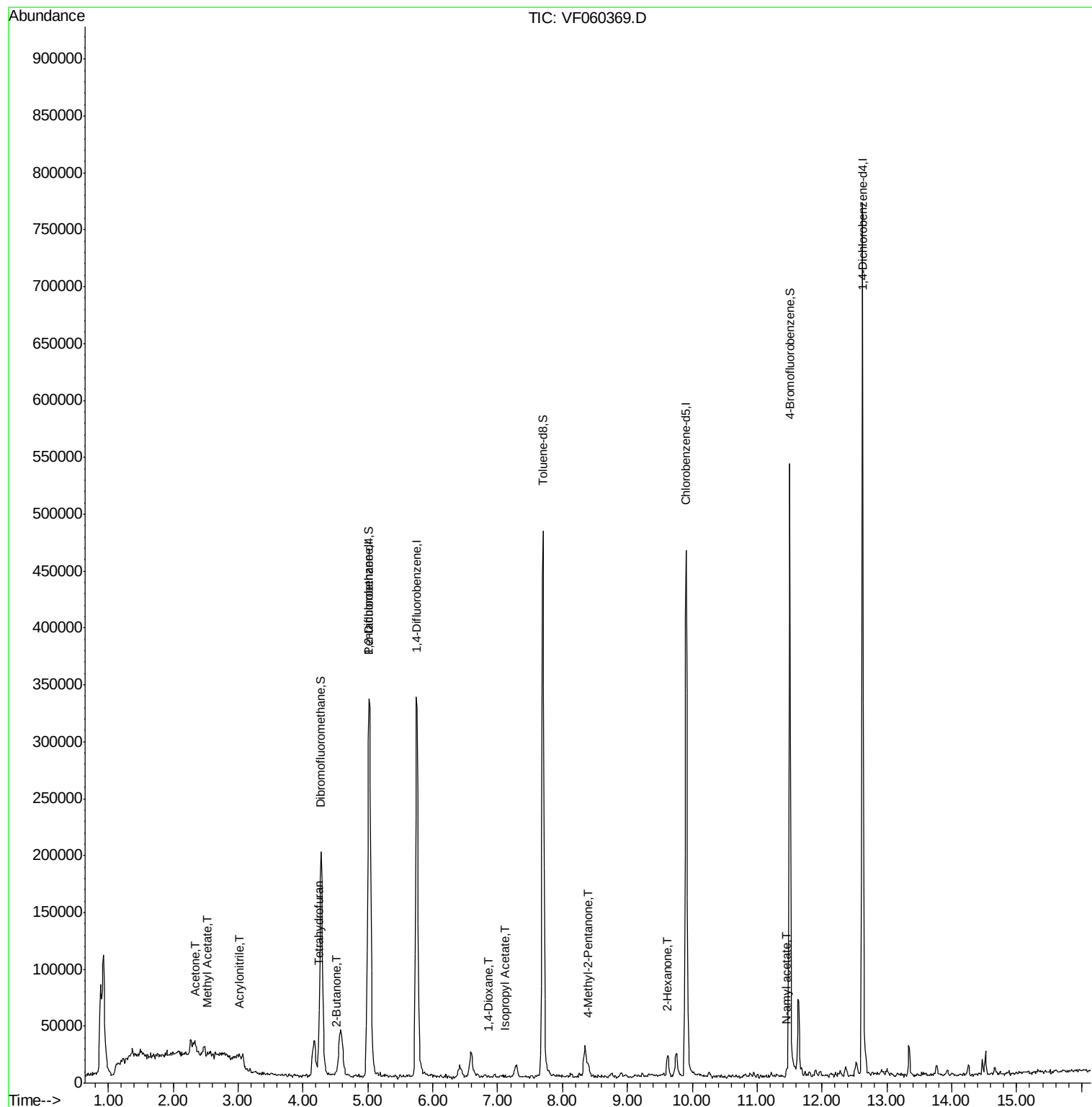
						Qvalue
2) Dichlorodifluoromethane	1.01	85	772	Below Cal	#	40
5) Bromomethane	1.29	94	477	Below Cal		89
11) Tert butyl alcohol	2.67	59	1054	Below Cal	#	1
13) Acrolein	2.01	56	1363	Below Cal		95
15) Acrylonitrile	3.02	53	648	1.587	ug/l	86
16) Acetone	2.34	43	9375	11.515	ug/l	99
17) Carbon Disulfide	1.88	76	376	Below Cal	#	1
18) Methyl Acetate	2.53	43	2142	1.579	ug/l	96
20) Methylene Chloride	2.28	84	6434	Below Cal	#	82
25) 2-Butanone	4.50	43	4261	3.888	ug/l	94
29) Tetrahydrofuran	4.24	42	1386	3.454	ug/l #	57
43) Isopropyl Acetate	7.12	43	3260	1.397	ug/l #	89
49) 1,4-Dioxane	6.87	88	102	6.971	ug/l #	1
51) 4-Methyl-2-Pentanone	8.39	43	9569	5.321	ug/l #	72
59) 2-Hexanone	9.62	43	15156	11.837	ug/l	89
74) N-amyl acetate	11.45	43	5936	1.601	ug/l #	90
78) n-propylbenzene	11.68	91	3343	Below Cal		97
85) sec-Butylbenzene	12.38	105	2473	Below Cal		93
86) p-Isopropyltoluene	12.53	119	2399	Below Cal		83
89) n-Butylbenzene	12.90	91	2359	Below Cal		76

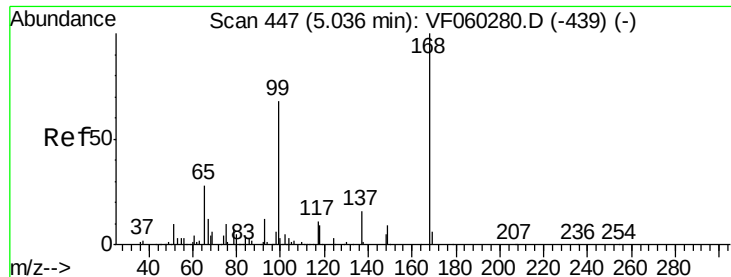
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VF060369.D

Acq: 28 Sep 2018 16:05

Instrument :

MSVOA_F

ClientSampleId :

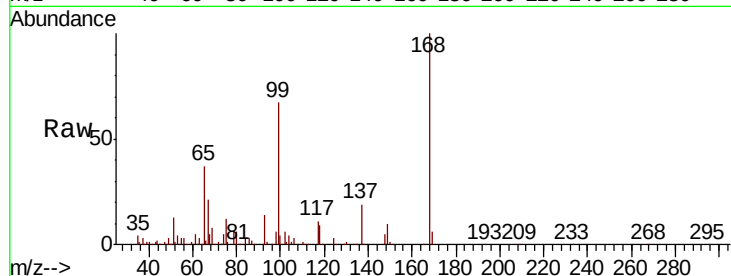
VF0928SBL01

Tot Ion:168 Resp: 214703

Ion Ratio Lower Upper

168 100

99 66.8 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

80000

60000

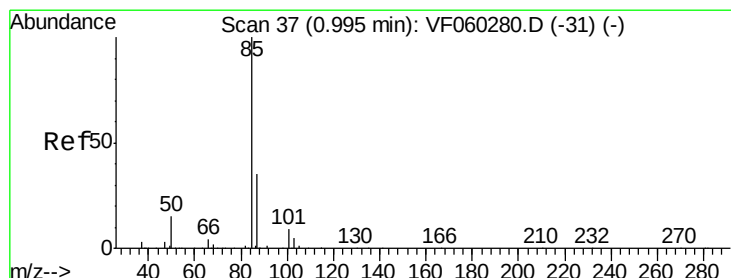
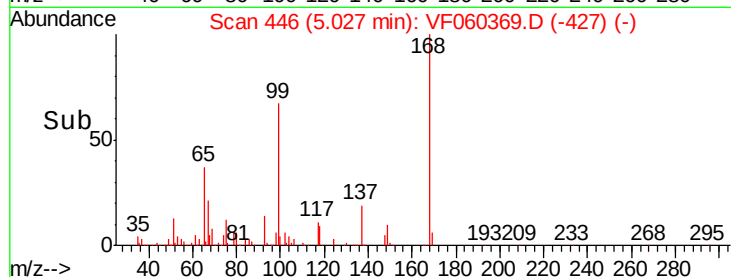
40000

20000

0

Time-->

4.90 5.00 5.10 5.20



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.01 min Scan# 38

Delta R.T. 0.01 min

Lab File: VF060369.D

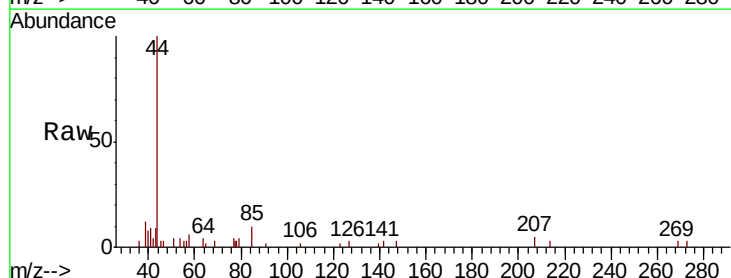
Acq: 28 Sep 2018 16:05

Tgt Ion: 85 Resp: 772

Ion Ratio Lower Upper

85 100

87 0.0 17.3 52.0#



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

1.01

500

400

300

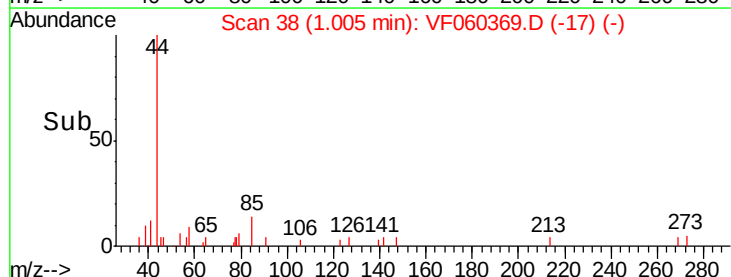
200

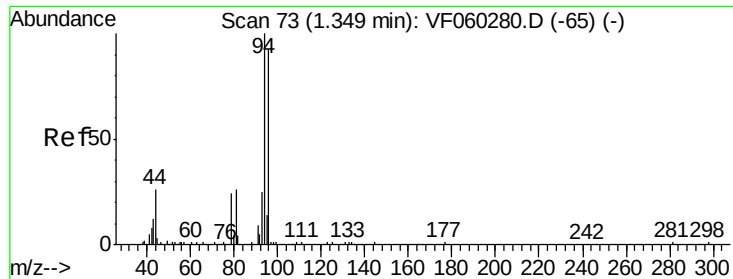
100

0

Time-->

1.00 1.05





#5

Bromomethane

Concen: Below Cal

RT: 1.29 min Scan# 67

Delta R.T. -0.06 min

Lab File: VF060369.D

Acq: 28 Sep 2018 16:05

Instrument :

MSVOA_F

ClientSampleId :

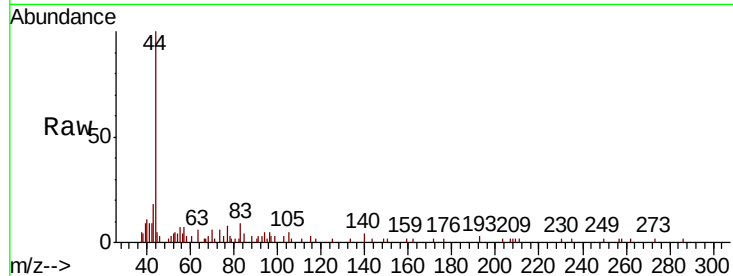
VF0928SBL01

Tot Ion: 94 Resp: 477

Ion Ratio Lower Upper

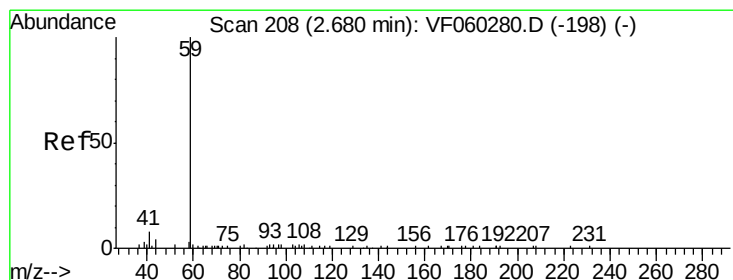
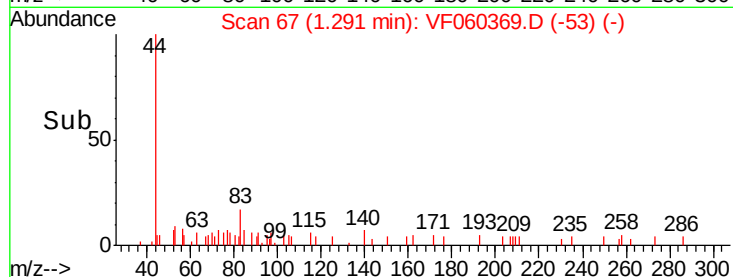
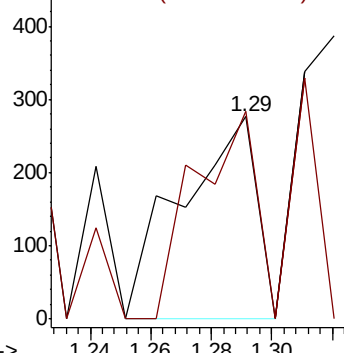
94 100

96 102.5 73.9 110.9



Abundance Ion 94.00 (93.70 to 94.70): VF0

Ion 96.00 (95.70 to 96.70): VF0



#11

Tert butyl alcohol

Concen: Below Cal

RT: 2.67 min Scan# 207

Delta R.T. -0.01 min

Lab File: VF060369.D

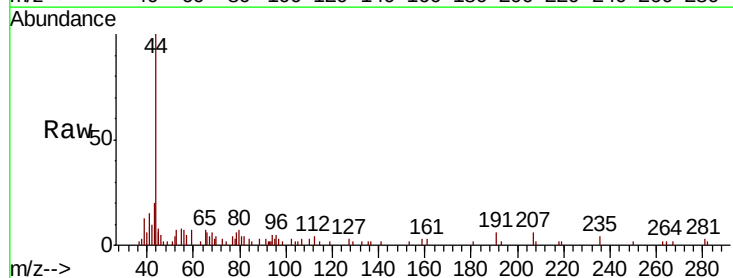
Acq: 28 Sep 2018 16:05

Tgt Ion: 59 Resp: 1054

Ion Ratio Lower Upper

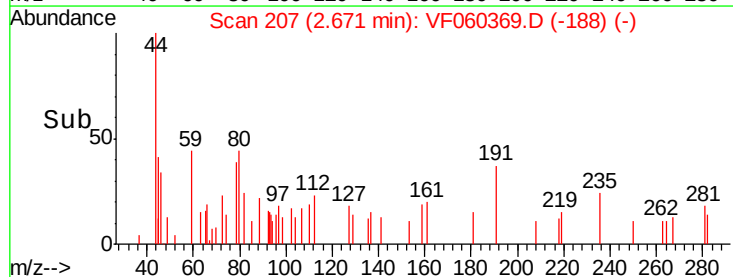
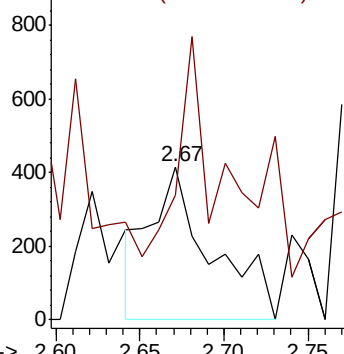
59 100

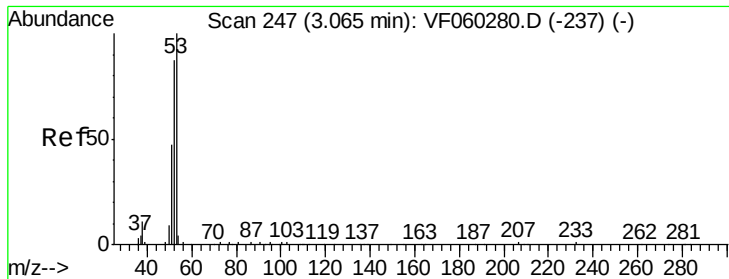
57 81.3 12.4 18.6#



Abundance Ion 59.00 (58.70 to 59.70): VF0

Ion 57.00 (56.70 to 57.70): VF0





#15

Acrylonitrile

Concen: 1.587 ug/l

RT: 3.02 min Scan# 242

Delta R.T. -0.05 min

Lab File: VF060369.D

Acq: 28 Sep 2018 16:05

Instrument :

MSVOA_F

ClientSampleId :

VF0928SBL01

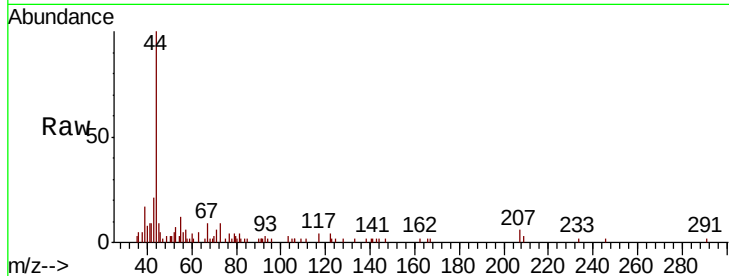
Tot Ion: 53 Resp: 648

Ion Ratio Lower Upper

53 100

52 71.8 69.5 104.3

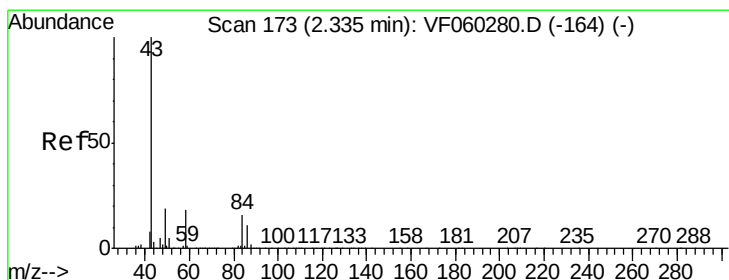
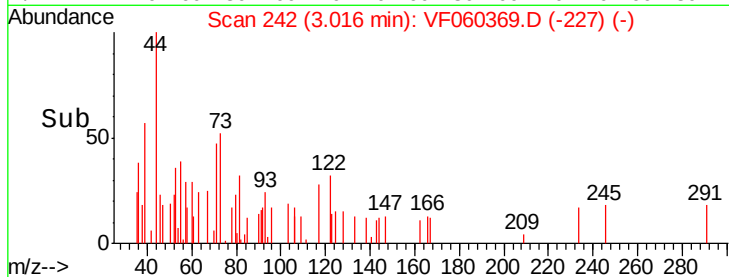
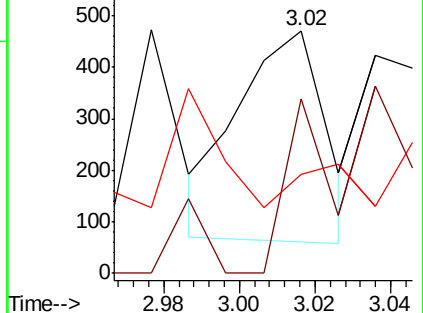
51 41.0 38.1 57.1



Abundance Ion 53.00 (52.70 to 53.70): VF0

Ion 52.00 (51.70 to 52.70): VF0

Ion 51.00 (50.70 to 51.70): VF0



#16

Acetone

Concen: 11.515 ug/l

RT: 2.34 min Scan# 173

Delta R.T. 0.00 min

Lab File: VF060369.D

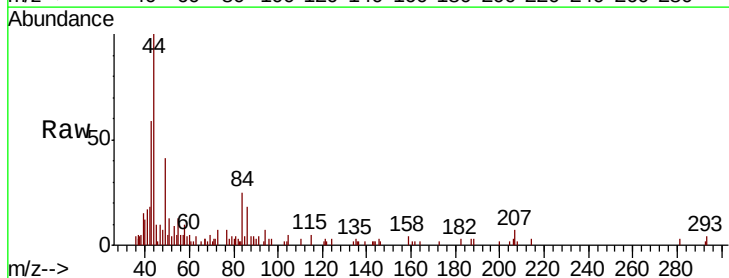
Acq: 28 Sep 2018 16:05

Tgt Ion: 43 Resp: 9375

Ion Ratio Lower Upper

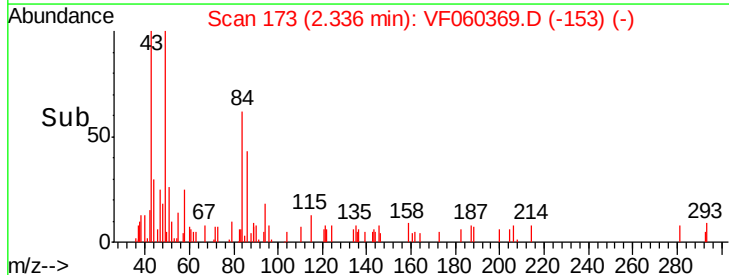
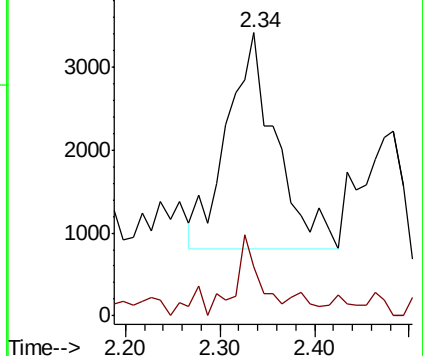
43 100

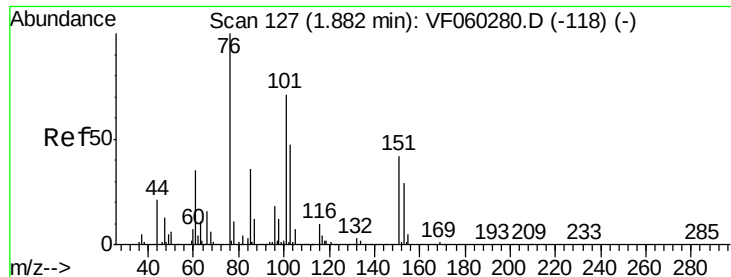
58 17.5 14.5 21.7



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0





#17

Carbon Disulfide

Concen: Below Cal

RT: 1.88 min Scan# 127

Delta R.T. 0.00 min

Lab File: VF060369.D

Acq: 28 Sep 2018 16:05

Instrument :

MSVOA_F

ClientSampleId :

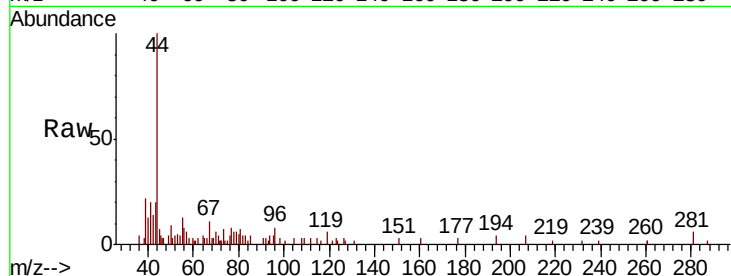
VF0928SBL01

Tot Ion: 76 Resp: 376

Ion Ratio Lower Upper

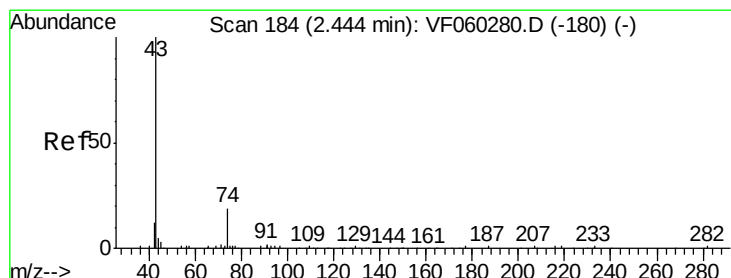
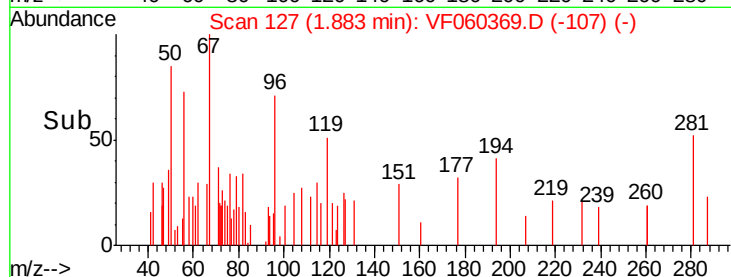
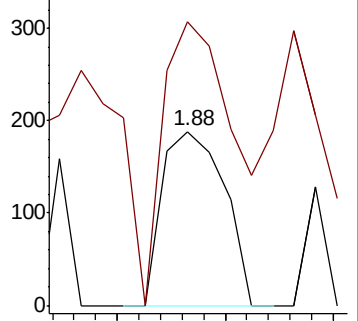
76 100

78 163.3 9.4 14.0#



Abundance Ion 76.00 (75.70 to 76.70): VF0

Ion 78.00 (77.70 to 78.70): VF0



#18

Methyl Acetate

Concen: 1.579 ug/l

RT: 2.53 min Scan# 193

Delta R.T. 0.09 min

Lab File: VF060369.D

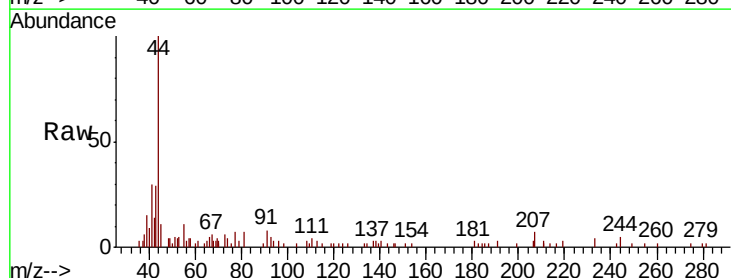
Acq: 28 Sep 2018 16:05

Tgt Ion: 43 Resp: 2142

Ion Ratio Lower Upper

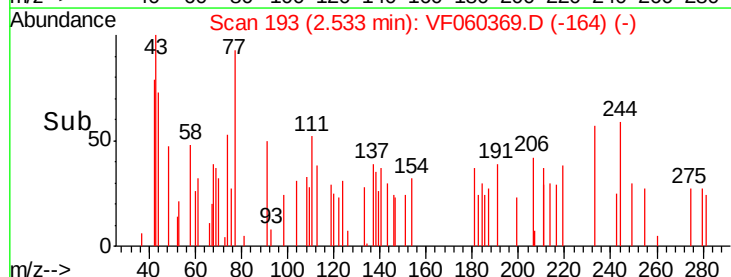
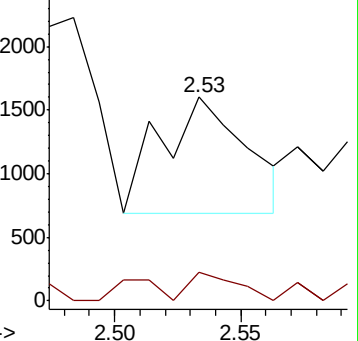
43 100

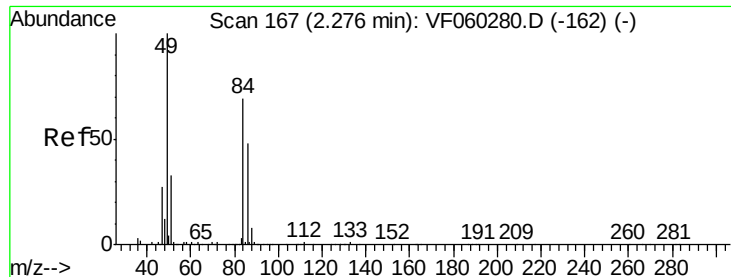
74 14.2 12.7 19.1



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 74.00 (73.70 to 74.70): VF0



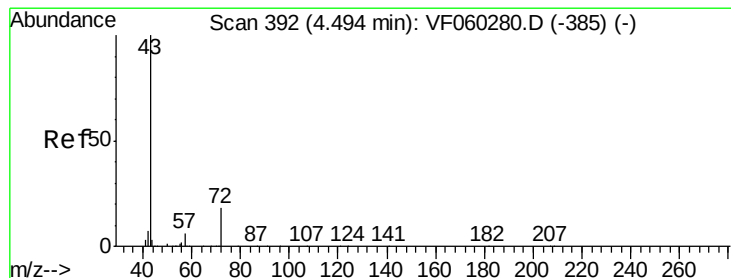
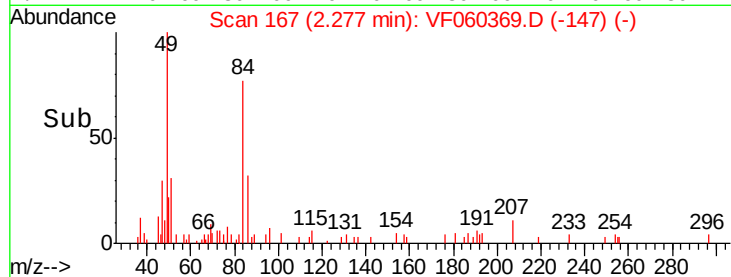
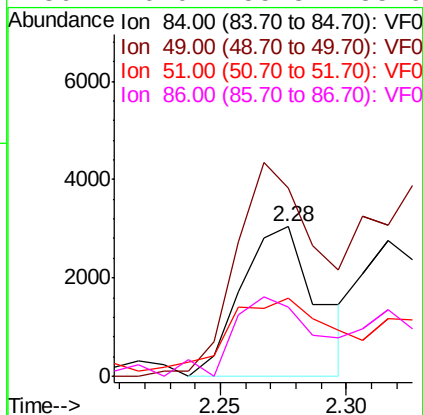
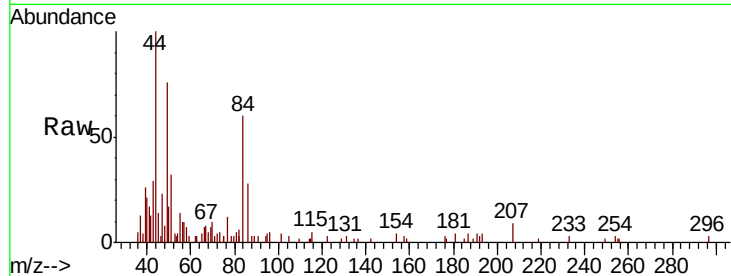


#20

Methylene Chloride
 Concen: Below Cal
 RT: 2.28 min Scan# 167
 Delta R.T. 0.00 min
 Lab File: VF060369.D
 Acq: 28 Sep 2018 16:05

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0928SBL01

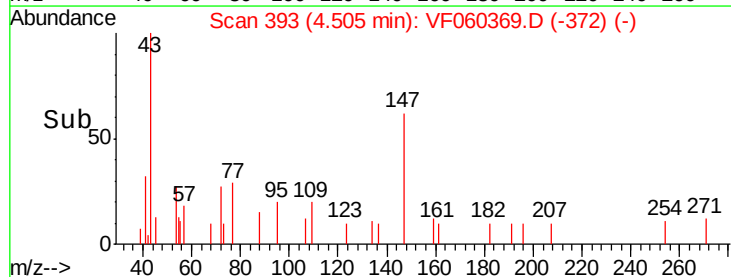
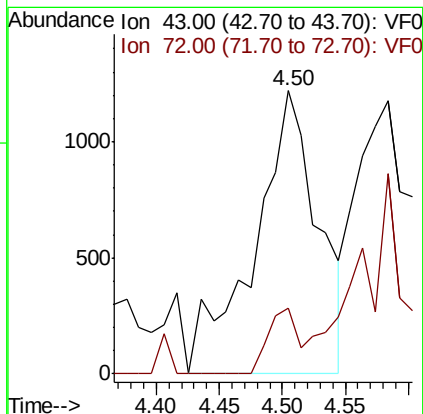
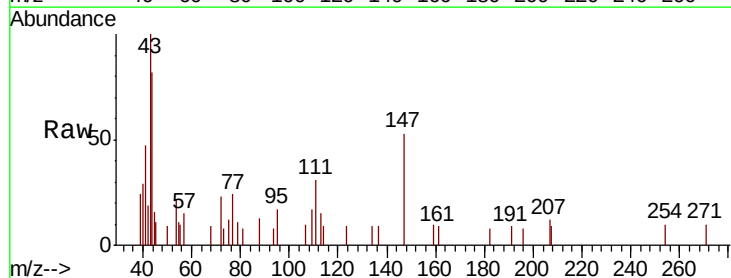
Tot Ion:	84	Resp:	6434
Ion	Ratio	Lower	Upper
84	100		
49	126.2	118.3	177.5
51	52.3	38.7	58.1
86	46.0	55.8	83.6#

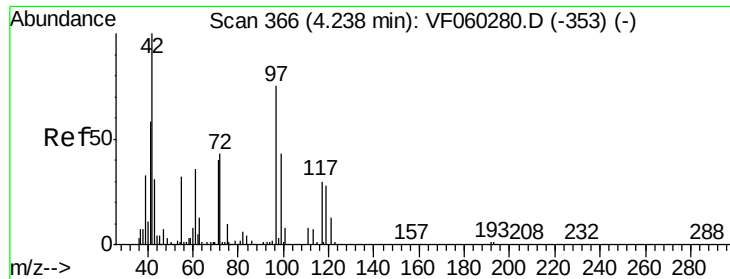


#25

2-Butanone
 Concen: 3.888 ug/l
 RT: 4.50 min Scan# 393
 Delta R.T. 0.01 min
 Lab File: VF060369.D
 Acq: 28 Sep 2018 16:05

Tgt Ion:	43	Resp:	4261
Ion	Ratio	Lower	Upper
43	100		
72	23.1	16.2	24.2





#29

Tetrahydrofuran

Concen: 3.454 ug/l

RT: 4.24 min Scan# 366

Delta R.T. 0.00 min

Lab File: VF060369.D

Acq: 28 Sep 2018 16:05

Instrument :

MSVOA_F

ClientSampleId :

VF0928SBL01

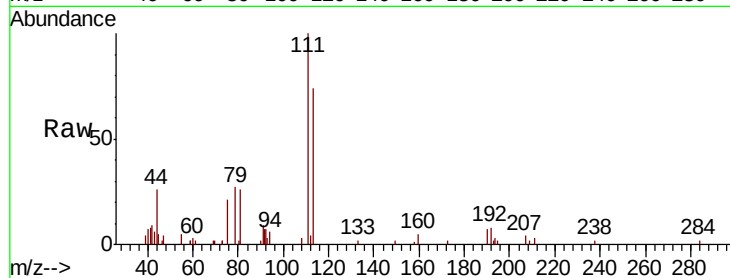
Tot Ion: 42 Resp: 1386

Ion Ratio Lower Upper

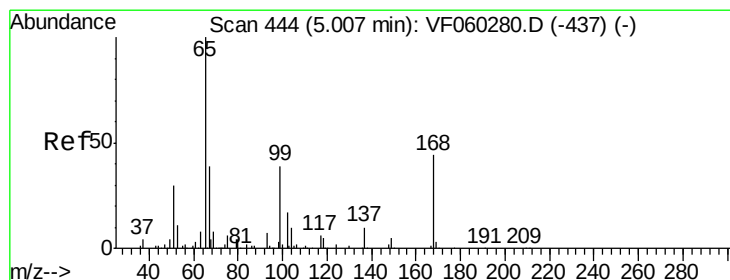
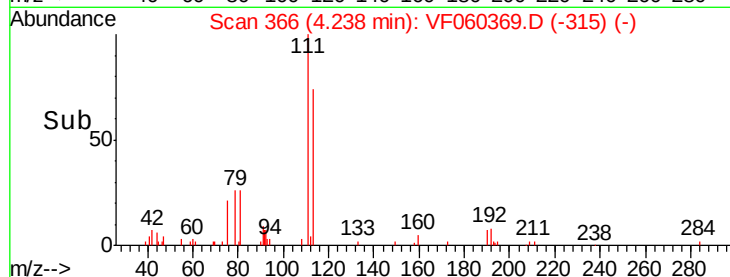
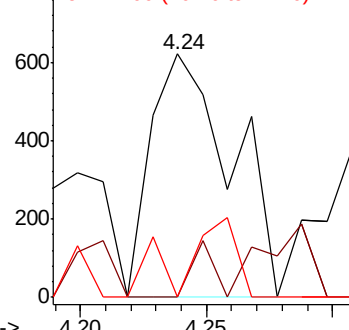
42 100

72 6.2 32.6 49.0#

71 21.9 32.7 49.1#



Abundance Ion 42.00 (41.70 to 42.70): VF0
Ion 72.00 (71.70 to 72.70): VF0
Ion 71.00 (70.70 to 71.70): VF0



#33

1,2-Dichloroethane-d4

Concen: 57.759 ug/l

RT: 5.01 min Scan# 444

Delta R.T. 0.00 min

Lab File: VF060369.D

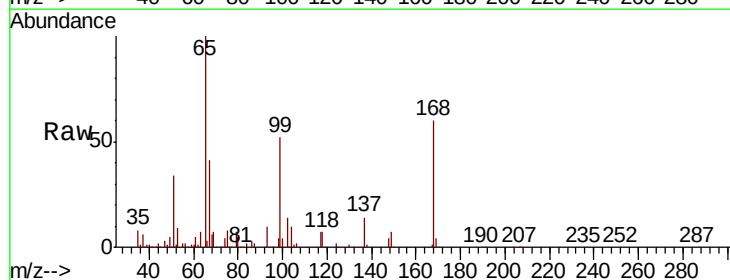
Acq: 28 Sep 2018 16:05

Tgt Ion: 65 Resp: 166985

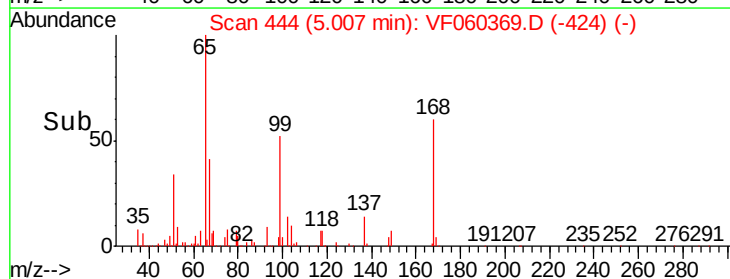
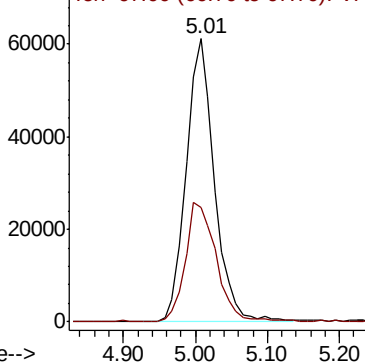
Ion Ratio Lower Upper

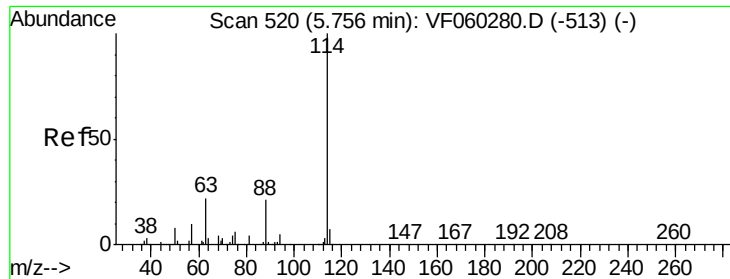
65 100

67 40.6 0.0 94.4



Abundance Ion 65.00 (64.70 to 65.70): VF0
Ion 67.00 (66.70 to 67.70): VF0

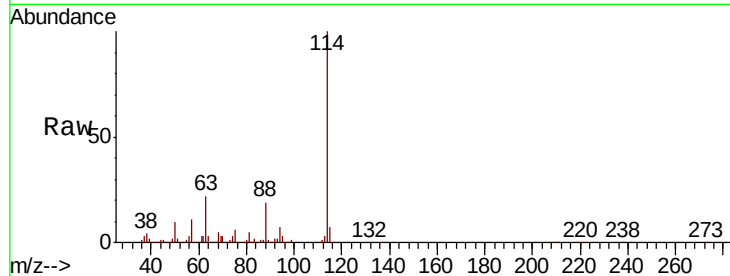




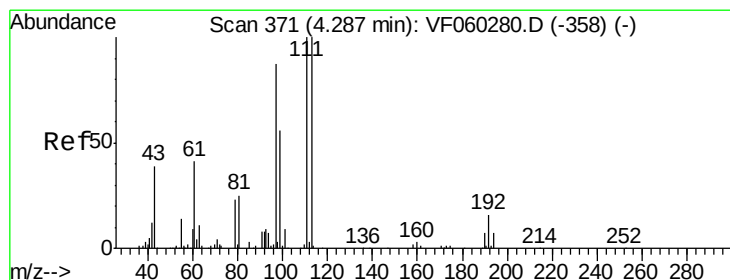
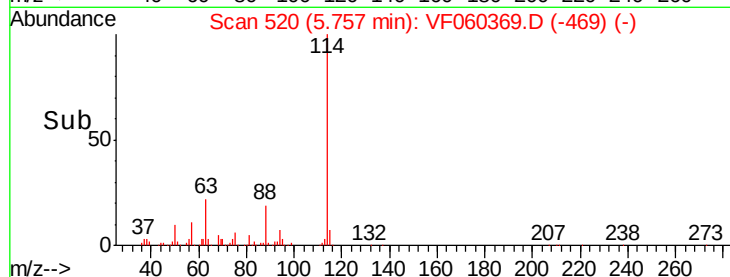
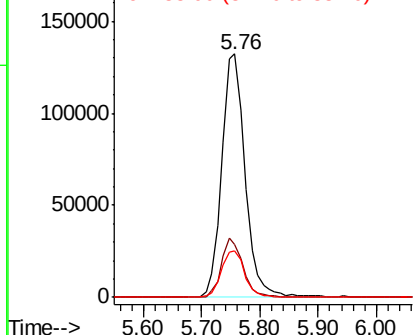
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 5.76 min Scan# 520
Delta R.T. 0.00 min
Lab File: VF060369.D
Acq: 28 Sep 2018 16:05

Instrument :
MSVOA_F
ClientSampleId :
VF0928SBL01

Tot Ion	Ratio	Lower	Upper
114	100		
63	21.9	0.0	43.8
88	18.9	0.0	41.2

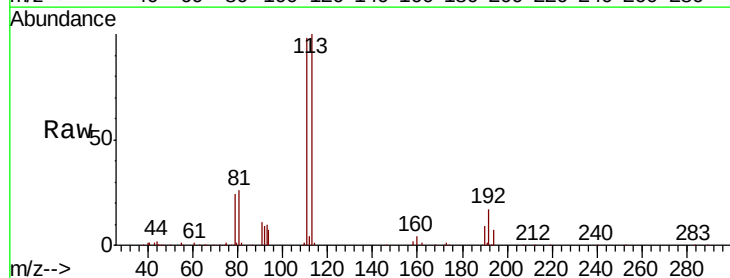


Abundance Ion 114.00 (113.70 to 114.70): V
Ion 63.00 (62.70 to 63.70): VF0
Ion 88.00 (87.70 to 88.70): VF0

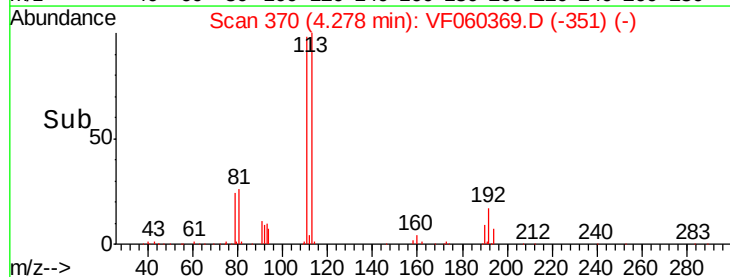
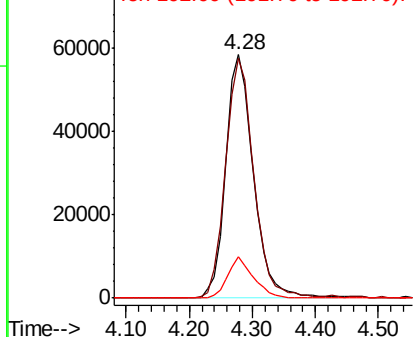


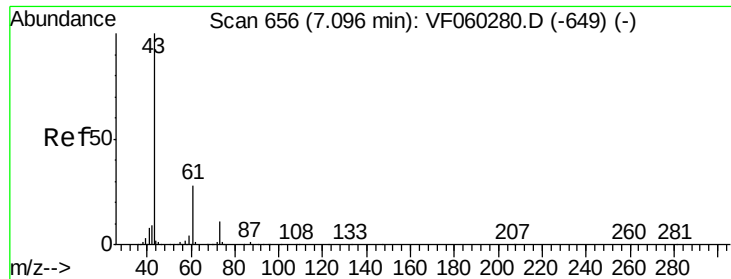
#35
Dibromofluoromethane
Concen: 54.060 ug/l
RT: 4.28 min Scan# 370
Delta R.T. -0.01 min
Lab File: VF060369.D
Acq: 28 Sep 2018 16:05

Tgt Ion	Ratio	Lower	Upper
113	100		
111	98.3	79.6	119.4
192	17.1	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





#43

Isopropyl Acetate

Concen: 1.397 ug/l

RT: 7.12 min Scan# 658

Delta R.T. 0.02 min

Lab File: VF060369.D

Acq: 28 Sep 2018 16:05

Instrument :

MSVOA_F

ClientSampleId :

VF0928SBL01

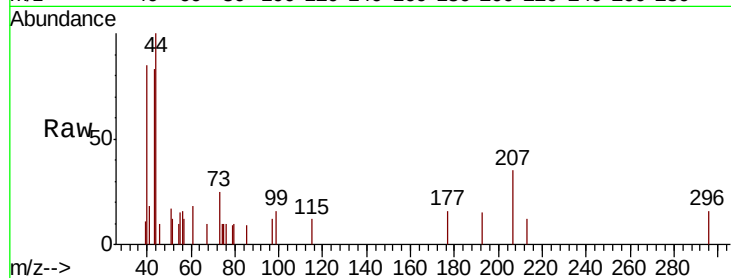
Tot Ion: 43 Resp: 3260

Ion Ratio Lower Upper

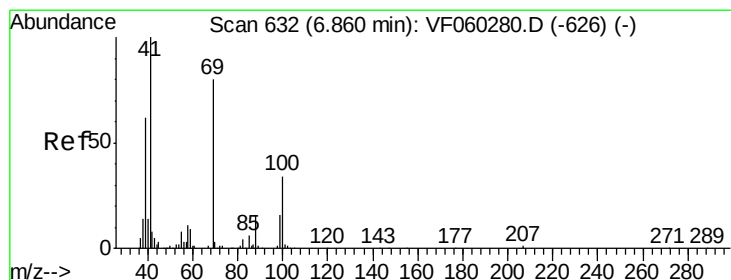
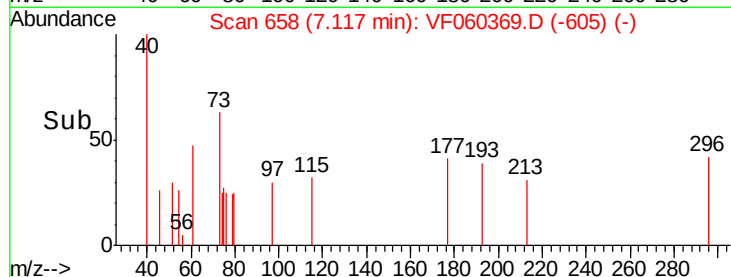
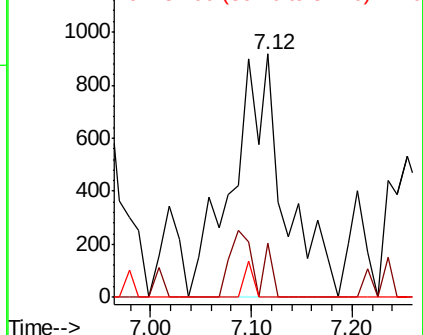
43 100

61 22.1 22.4 33.6#

87 0.0 0.6 0.8#



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: 6.971 ug/l

RT: 6.87 min Scan# 633

Delta R.T. 0.01 min

Lab File: VF060369.D

Acq: 28 Sep 2018 16:05

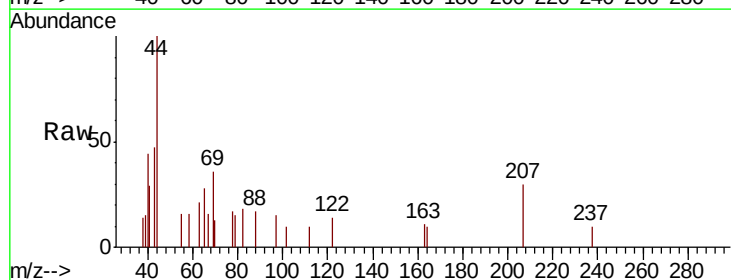
Tgt Ion: 88 Resp: 102

Ion Ratio Lower Upper

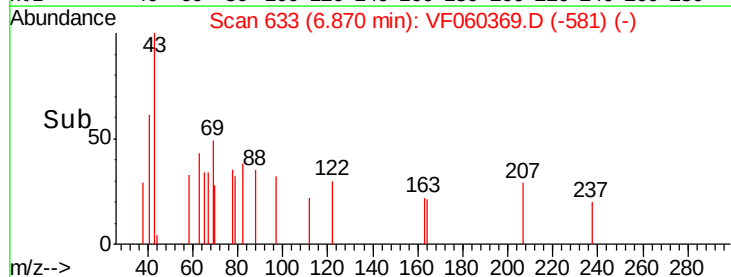
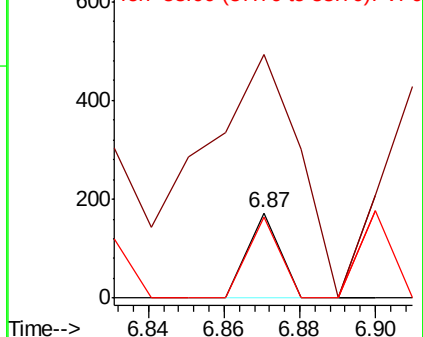
88 100

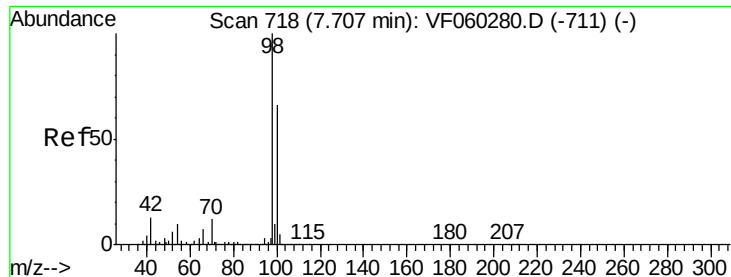
43 286.6 40.2 60.4#

58 94.8 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: 47.250 ug/l

RT: 7.70 min Scan# 717

Delta R.T. -0.01 min

Lab File: VF060369.D

Acq: 28 Sep 2018 16:05

Instrument :

MSVOA_F

ClientSampleId :

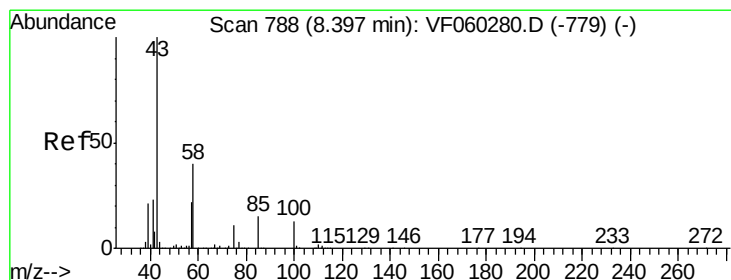
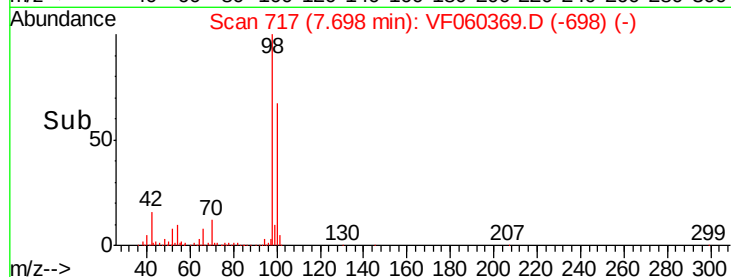
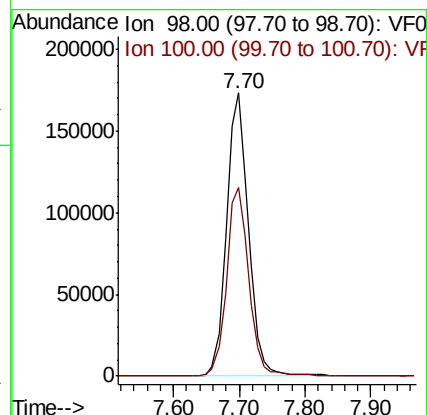
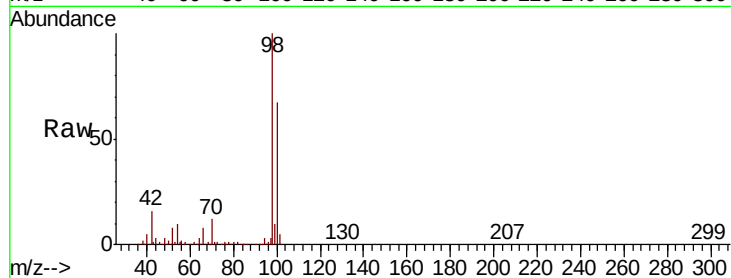
VF0928SBL01

Tot Ion: 98 Resp: 402778

Ion Ratio Lower Upper

98 100

100 66.7 53.0 79.6



#51

4-Methyl-2-Pentanone

Concen: 5.321 ug/l

RT: 8.39 min Scan# 787

Delta R.T. -0.01 min

Lab File: VF060369.D

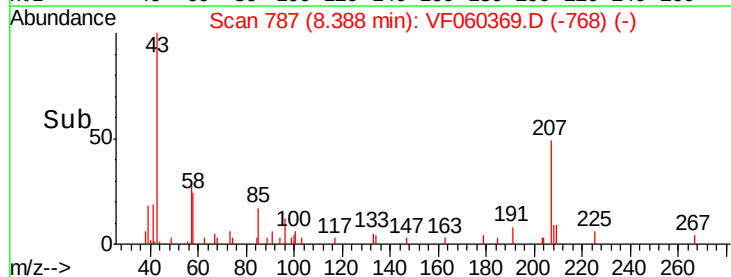
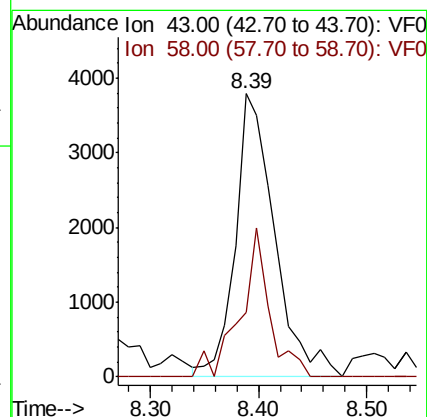
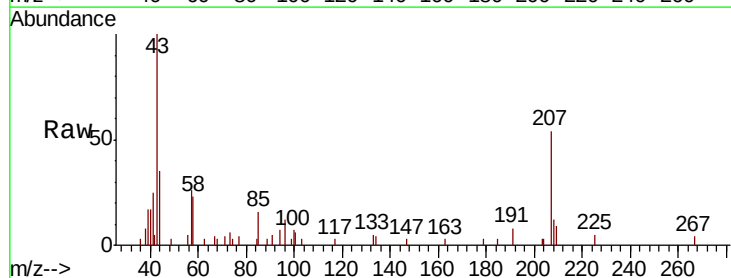
Acq: 28 Sep 2018 16:05

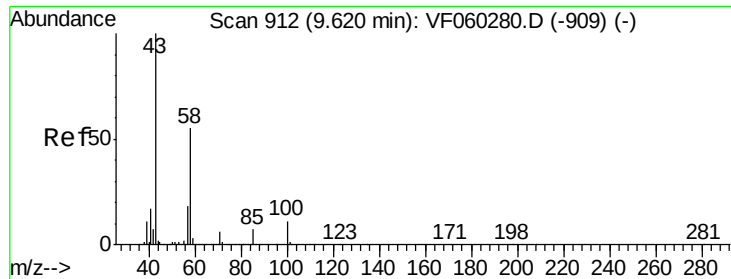
Tgt Ion: 43 Resp: 9569

Ion Ratio Lower Upper

43 100

58 22.8 31.8 47.8#

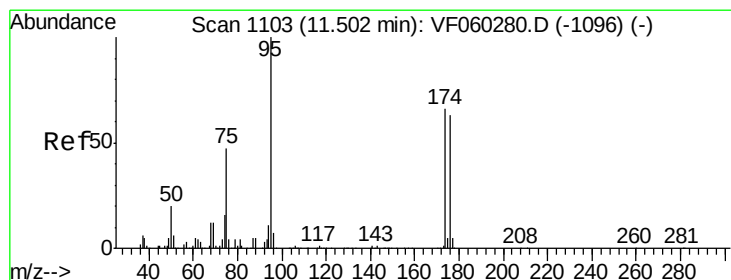
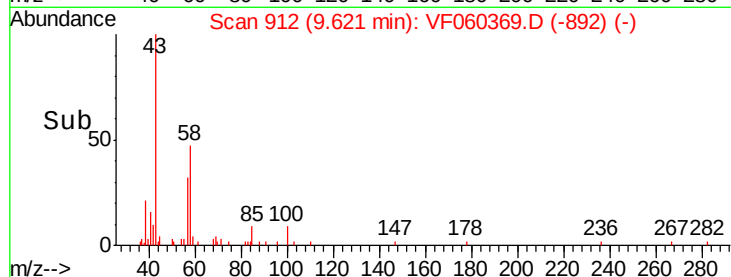
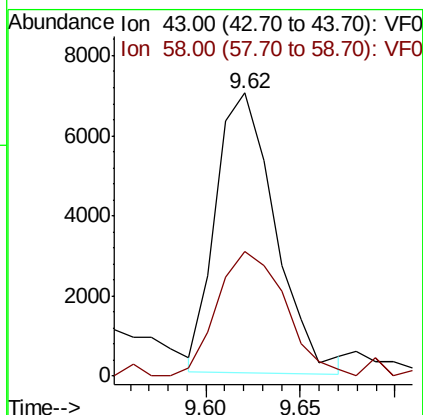
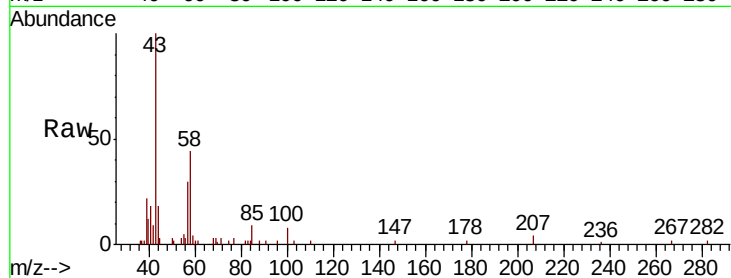




#59
2-Hexanone
Concen: 11.837 ug/l
RT: 9.62 min Scan# 912
Delta R.T. 0.00 min
Lab File: VF060369.D
Acq: 28 Sep 2018 16:05

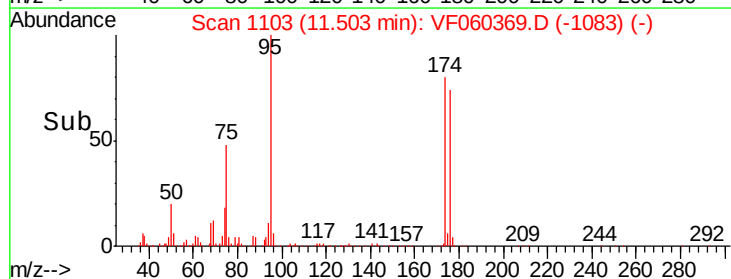
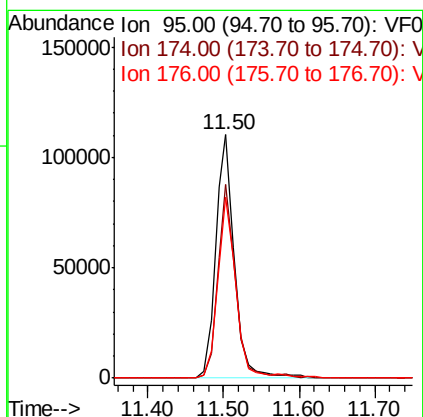
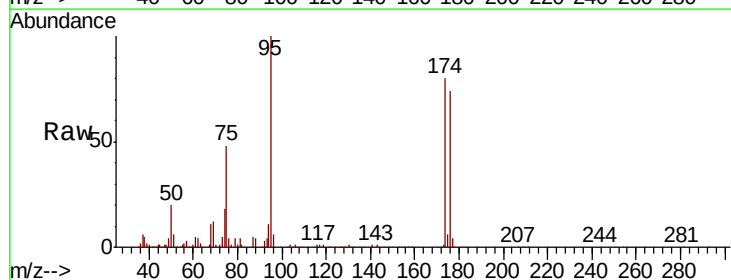
Instrument :
MSVOA_F
ClientSampleId :
VF0928SBL01

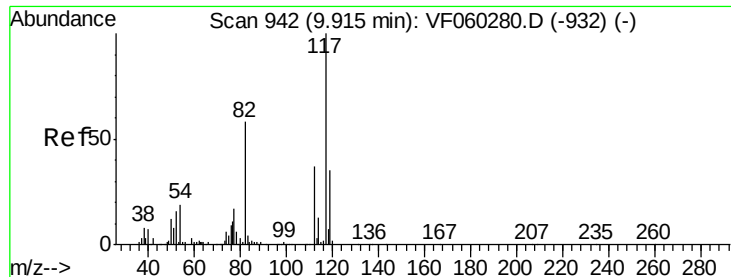
Tot Ion: 43 Resp: 15156
Ion Ratio Lower Upper
43 100
58 44.2 25.9 77.6



#62
4-Bromofluorobenzene
Concen: 51.777 ug/l
RT: 11.50 min Scan# 1103
Delta R.T. 0.00 min
Lab File: VF060369.D
Acq: 28 Sep 2018 16:05

Tgt Ion: 95 Resp: 190790
Ion Ratio Lower Upper
95 100
174 79.8 0.0 131.2
176 74.1 0.0 126.6

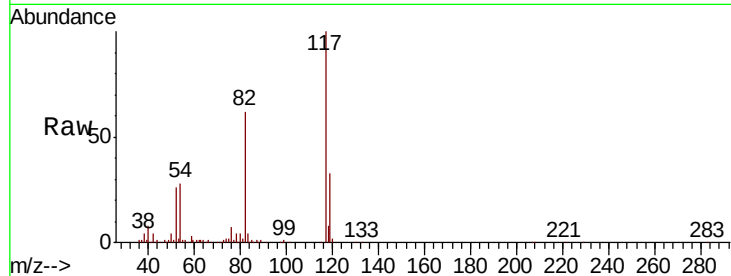




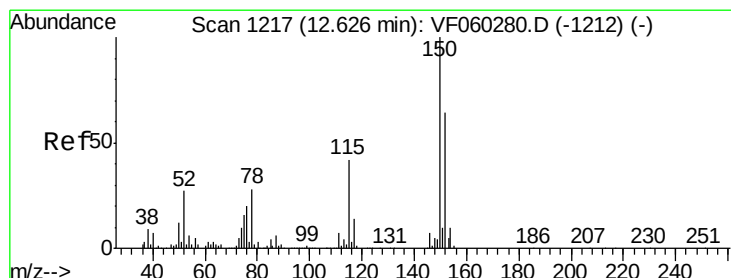
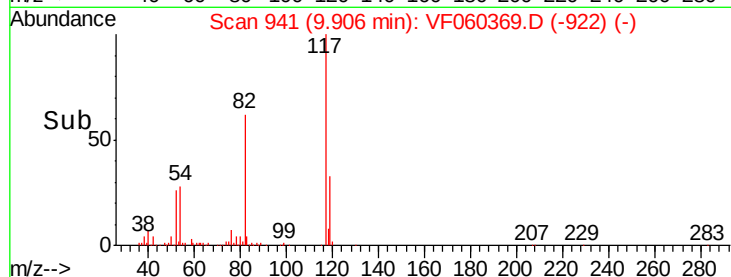
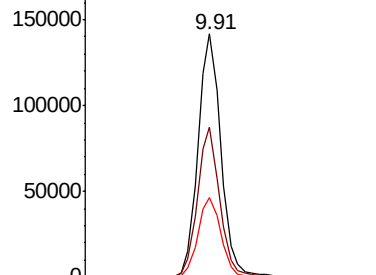
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.91 min Scan# 941
Delta R.T. -0.01 min
Lab File: VF060369.D
Acq: 28 Sep 2018 16:05

Instrument :
MSVOA_F
ClientSampleId :
VF0928SBL01

Tot Ion:117 Resp: 316468
Ion Ratio Lower Upper
117 100
82 61.9 46.2 69.2
119 32.7 27.8 41.6

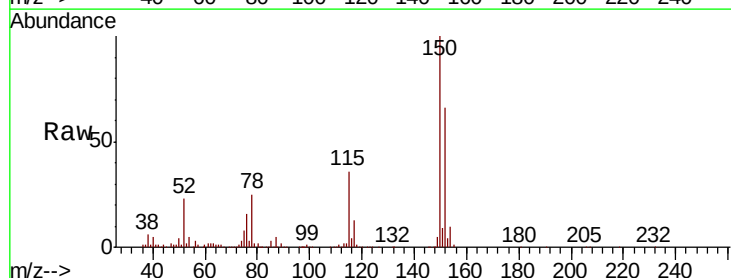


Abundance Ion 117.00 (116.70 to 117.70): V
Ion 82.00 (81.70 to 82.70): VF0
Ion 119.00 (118.70 to 119.70): V

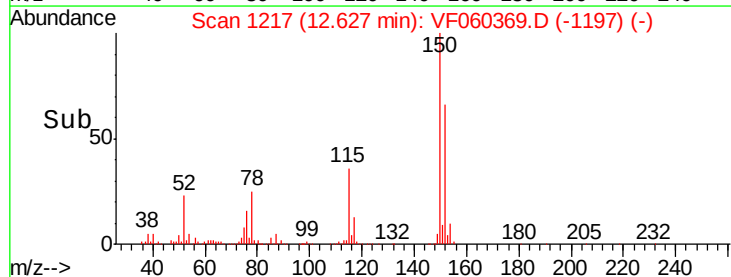
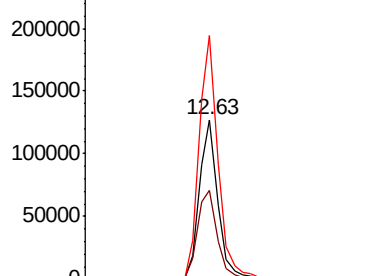


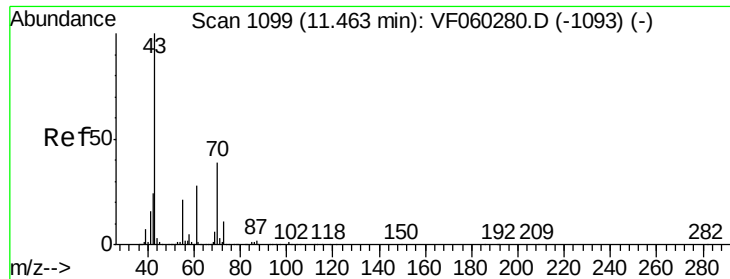
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.63 min Scan# 1217
Delta R.T. 0.00 min
Lab File: VF060369.D
Acq: 28 Sep 2018 16:05

Tgt Ion:152 Resp: 193738
Ion Ratio Lower Upper
152 100
115 55.6 32.6 97.8
150 152.5 0.0 314.2



Abundance Ion 152.00 (151.70 to 152.70): V
Ion 115.00 (114.70 to 115.70): V
Ion 150.00 (149.70 to 150.70): V





#74

N-amvl acetate

Concen: 1.601 ug/l

RT: 11.45 min Scan# 1098

Delta R.T. -0.01 min

Lab File: VF060369.D

Acq: 28 Sep 2018 16:05

Instrument :

MSVOA_F

ClientSampleId :

VF0928SBL01

Tot Ion: 43 Resp: 5936

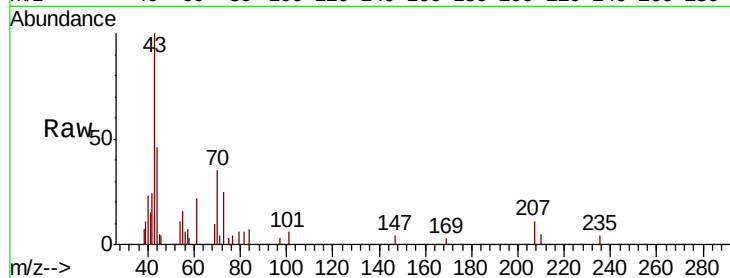
Ion Ratio Lower Upper

43 100

70 34.8 31.4 47.2

55 15.7 16.8 25.2#

61 21.6 22.6 34.0#

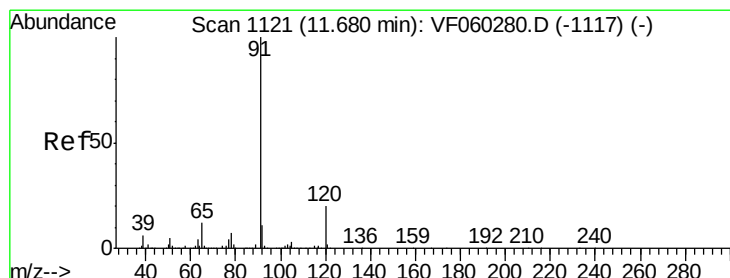
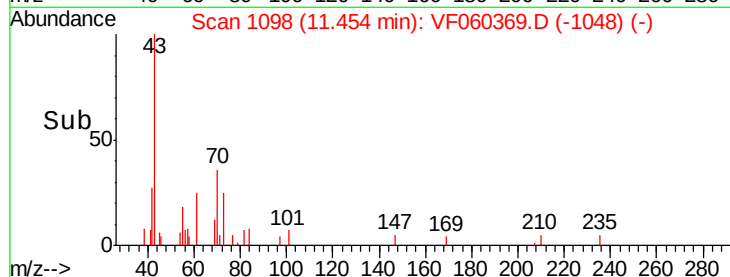
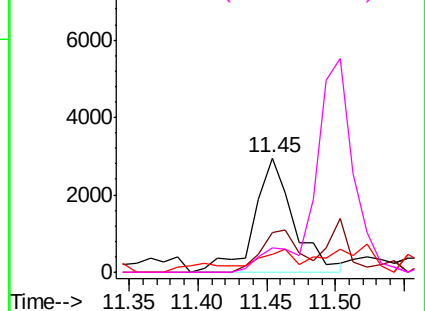


Abundance Ion 43.00 (42.70 to 43.70): VF0

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: VF060369.D

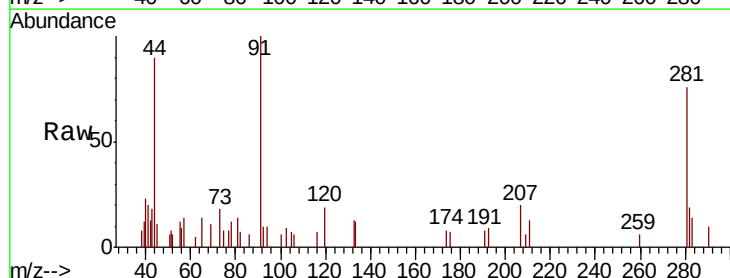
Acq: 28 Sep 2018 16:05

Tgt Ion: 91 Resp: 3343

Ion Ratio Lower Upper

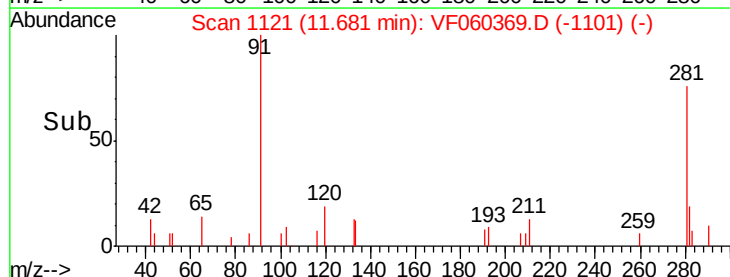
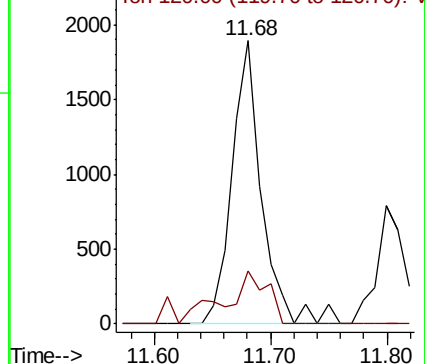
91 100

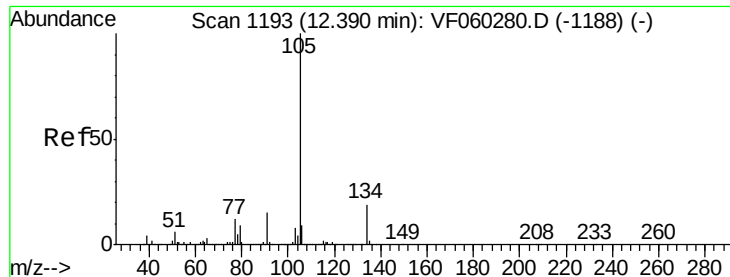
120 18.5 10.0 29.8



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: VF060369.D

Acq: 28 Sep 2018 16:05

Instrument :

MSVOA_F

ClientSampleId :

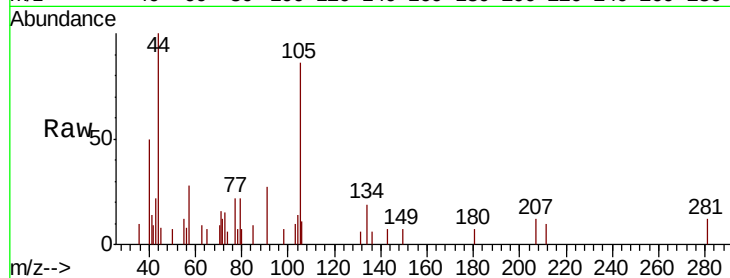
VF0928SBL01

Tot Ion:105 Resp: 2473

Ion Ratio Lower Upper

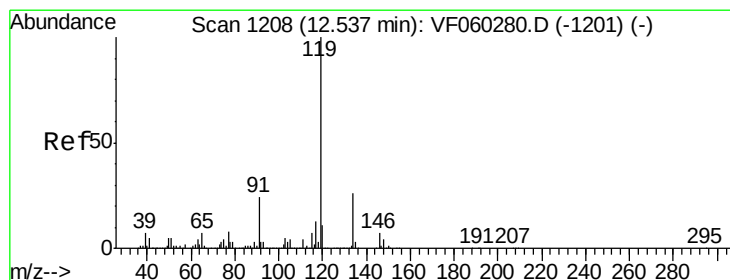
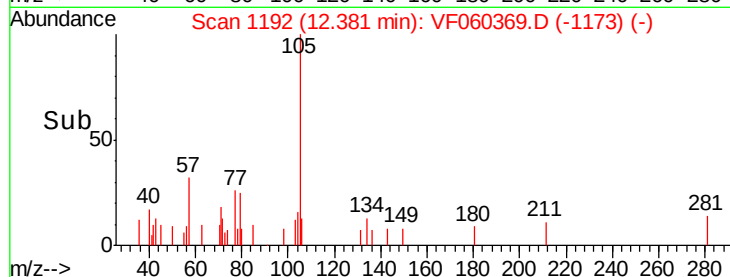
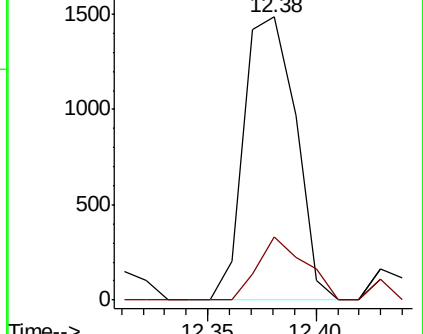
105 100

134 22.2 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: 12.53 min Scan# 1207

Delta R.T. -0.01 min

Lab File: VF060369.D

Acq: 28 Sep 2018 16:05

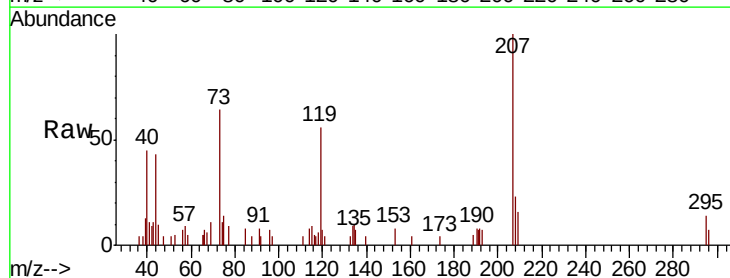
Tgt Ion:119 Resp: 2399

Ion Ratio Lower Upper

119 100

134 33.0 12.9 38.7

91 14.2 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): V

