

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_F\DATA\VF110918\
 Data File : VF060676.D
 Acq On : 9 Nov 2018 17:11
 Operator : VA/AP
 Sample : J5269-06RE
 Misc : 5.08g/5mL/MSVOA-F/SOIL
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 SB-12-SRE

Quant Time: Nov 12 04:13:42 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F110218S.M
 Quant Title : SW846 8260
 QLast Update : Sat Nov 03 05:29:31 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.88	168	236872	50.00	ug/l	0.01
34) 1,4-Difluorobenzene	5.61	114	434934	50.00	ug/l	0.01
63) Chlorobenzene-d5	9.78	117	416193	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.55	152	214435	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.86	65	154515	64.56	ug/l	0.01
Spiked Amount	50.000		Recovery	=	129.12%	
35) Dibromofluoromethane	4.12	113	179650	53.46	ug/l	0.01
Spiked Amount	50.000		Recovery	=	106.92%	
50) Toluene-d8	7.56	98	499679	50.20	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.40%	
62) 4-Bromofluorobenzene	11.42	95	232519	53.40	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.80%	

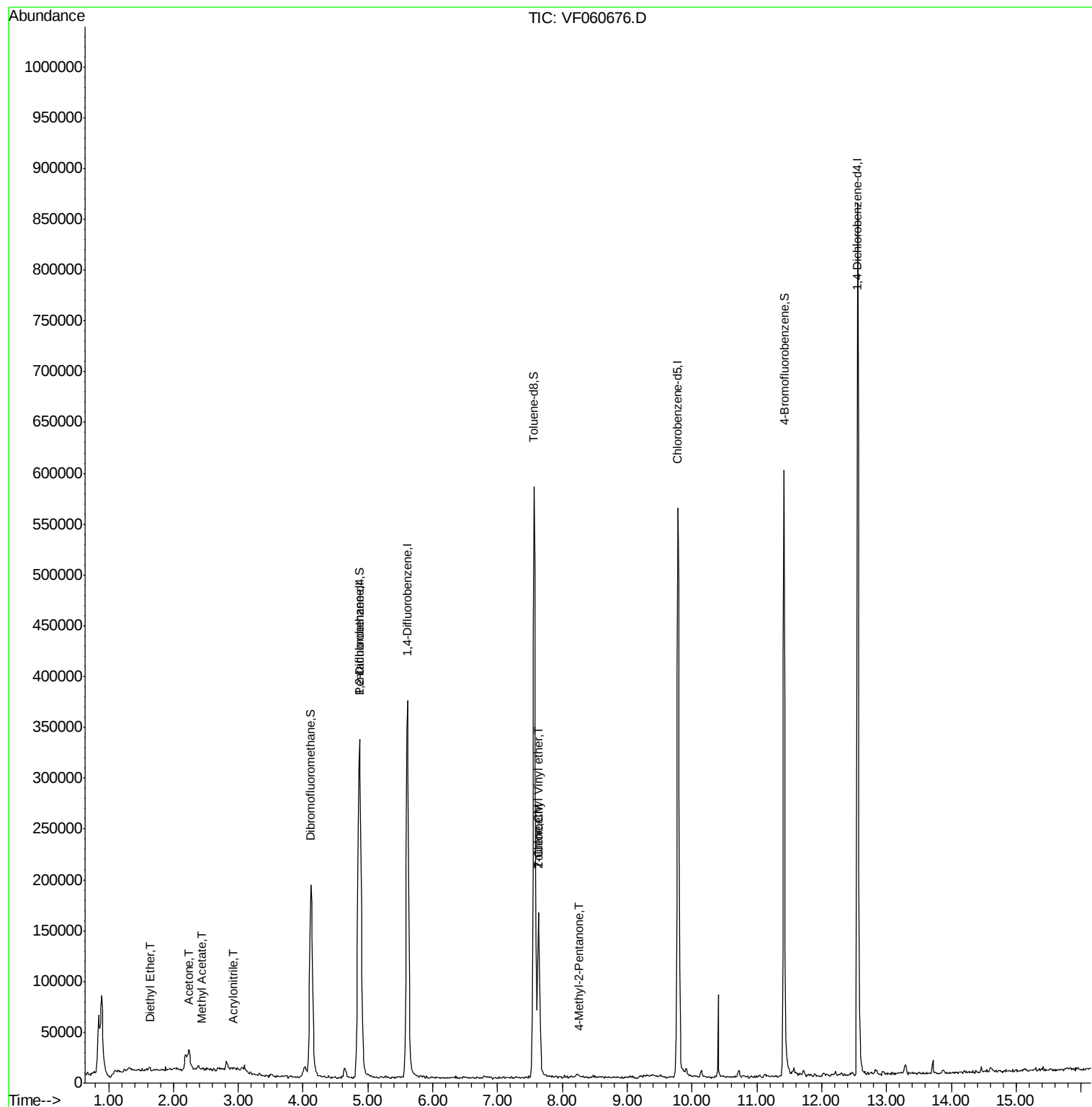
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	0.97	85	426	Below Cal	#	41
6) Chloroethane	1.39	64	67	Below Cal	#	1
8) Diethyl Ether	1.63	74	1125	1.698	ug/l	92
13) Acrolein	1.99	56	627	Below Cal	#	82
15) Acrylonitrile	2.93	53	745	2.612	ug/l #	29
16) Acetone	2.25	43	21166	37.532	ug/l	96
18) Methyl Acetate	2.43	43	829	1.416	ug/l #	87
25) 2-Butanone	4.36	43	3277	Below Cal	#	86
29) Tetrahydrofuran	4.08	42	1294	Below Cal	#	63
51) 4-Methyl-2-Pentanone	8.26	43	2251	1.151	ug/l #	54
52) Toluene	7.63	92	88191	11.647	ug/l	90
58) 2-Chloroethyl Vinyl ether	7.63	63	12642	53.296	ug/l	100
59) 2-Hexanone	9.51	43	2984	Below Cal		79
74) N-amyl acetate	11.39	43	985	Below Cal	#	80
89) n-Butylbenzene	12.85	91	1239	Below Cal		74

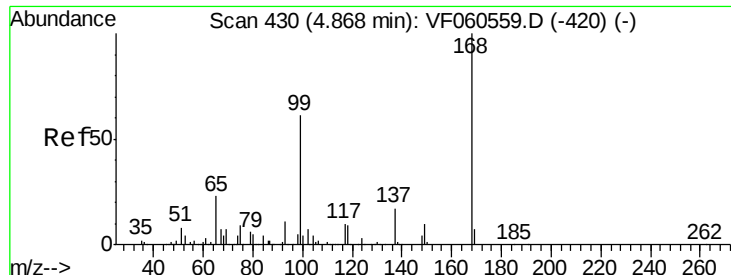
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.88 min Scan# 431

Delta R.T. 0.01 min

Lab File: VF060676.D

Acq: 9 Nov 2018 17:11

Instrument :

MSVOA_F

ClientSampleId :

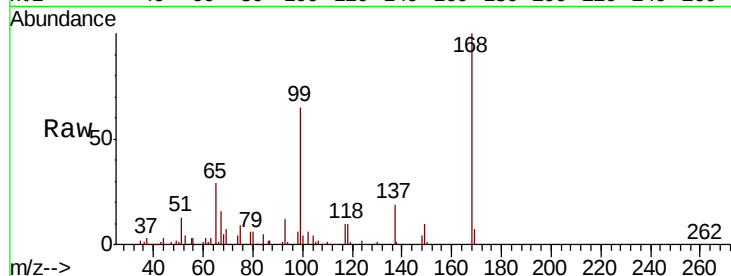
SB-12-SRE

Tgt Ion:168 Resp: 236872

Ion Ratio Lower Upper

168 100

99 64.9 48.6 72.8



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.88

80000

60000

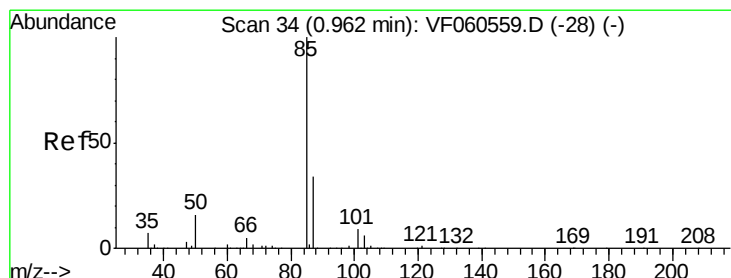
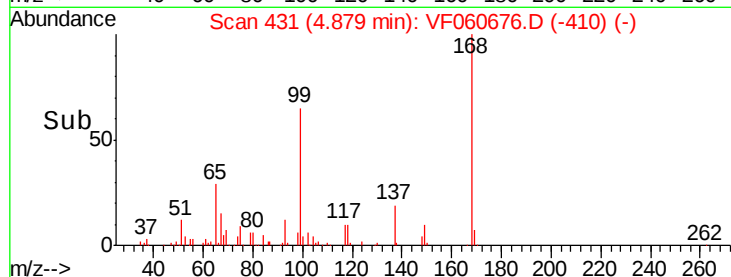
40000

20000

0

4.70 4.80 4.90 5.00 5.10

Time-->



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 0.97 min Scan# 35

Delta R.T. 0.01 min

Lab File: VF060676.D

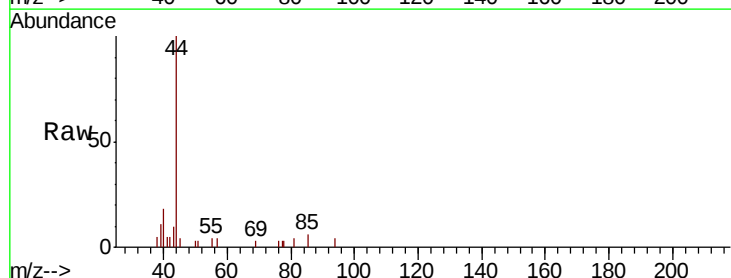
Acq: 9 Nov 2018 17:11

Tgt Ion: 85 Resp: 426

Ion Ratio Lower Upper

85 100

87 0.0 16.9 50.7#



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

0.97

250

200

150

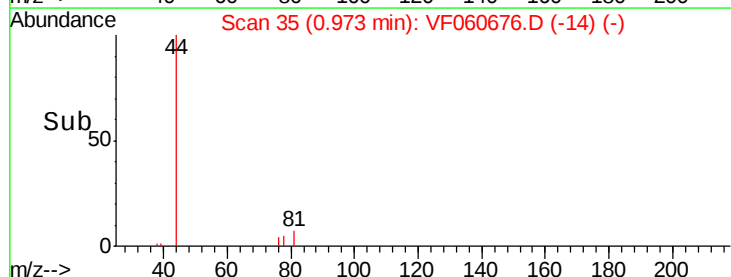
100

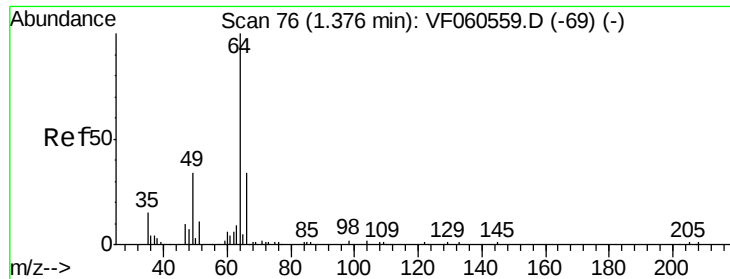
50

0

0.90 0.95 1.00

Time-->





#6

Chloroethane

Concen: Below Cal

RT: 1.39 min Scan# 77

Delta R.T. 0.01 min

Lab File: VF060676.D

Acq: 9 Nov 2018 17:11

Instrument :

MSVOA_F

ClientSampleId :

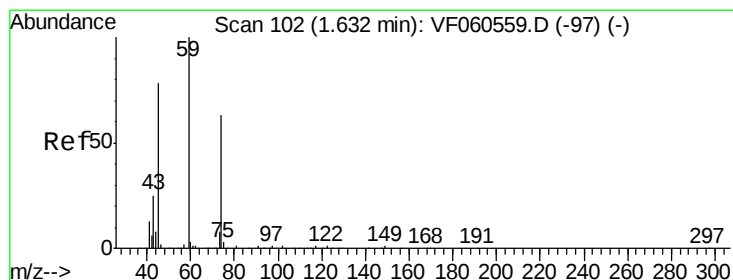
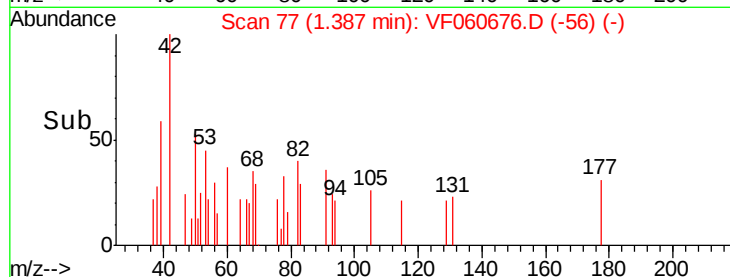
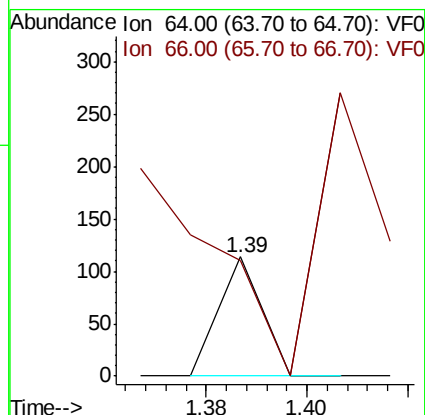
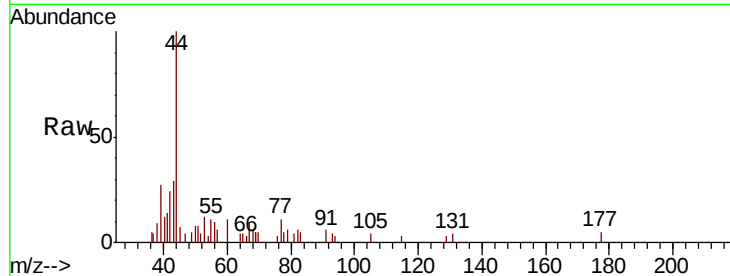
SB-12-SRE

Tgt Ion: 64 Resp: 67

Ion Ratio Lower Upper

64 100

66 97.4 27.8 41.8#



#8

Diethyl Ether

Concen: 1.698 ug/l

RT: 1.63 min Scan# 102

Delta R.T. 0.00 min

Lab File: VF060676.D

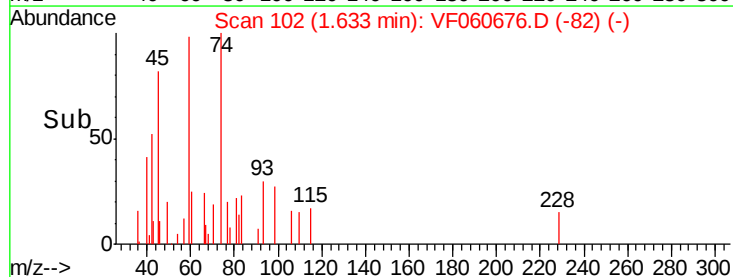
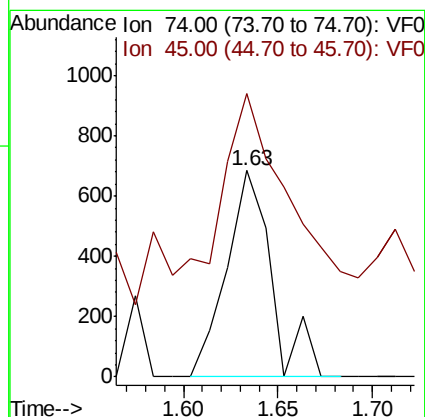
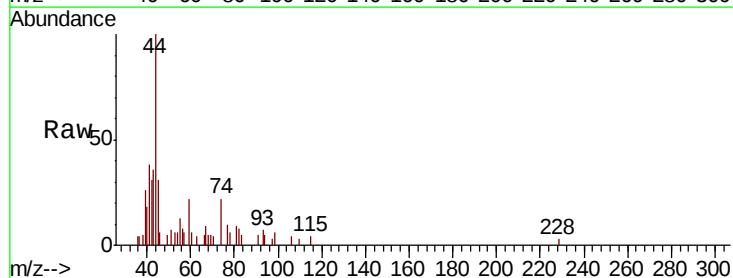
Acq: 9 Nov 2018 17:11

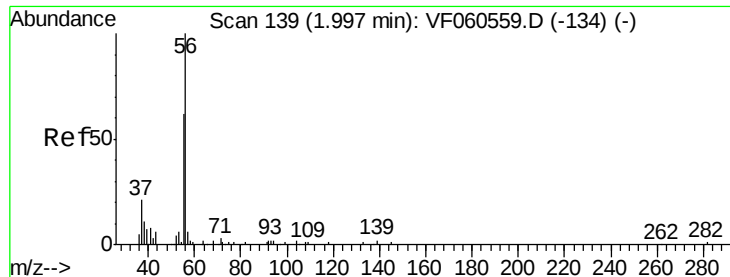
Tgt Ion: 74 Resp: 1125

Ion Ratio Lower Upper

74 100

45 137.1 63.8 191.5





#13

Acrolein

Concen: Below Cal

RT: 1.99 min Scan# 138

Delta R.T. -0.01 min

Lab File: VF060676.D

Acq: 9 Nov 2018 17:11

Instrument :

MSVOA_F

ClientSampleId :

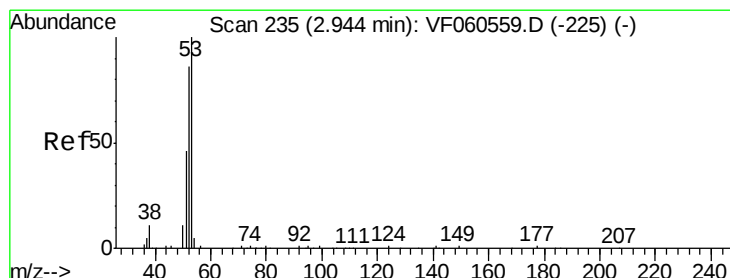
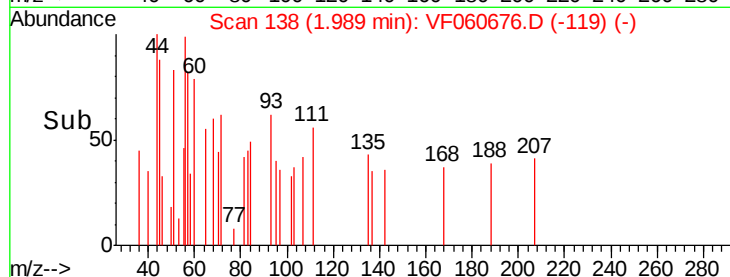
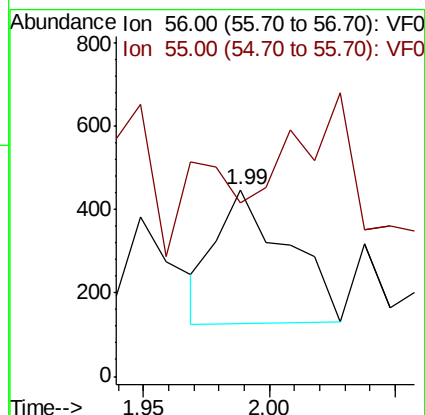
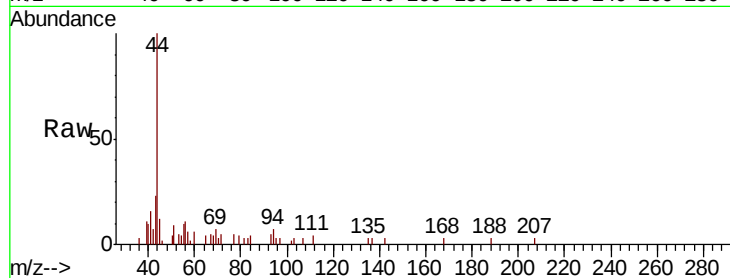
SB-12-SRE

Tgt Ion: 56 Resp: 627

Ion Ratio Lower Upper

56 100

55 92.8 61.8 92.6#



#15

Acrylonitrile

Concen: 2.612 ug/l

RT: 2.93 min Scan# 233

Delta R.T. -0.02 min

Lab File: VF060676.D

Acq: 9 Nov 2018 17:11

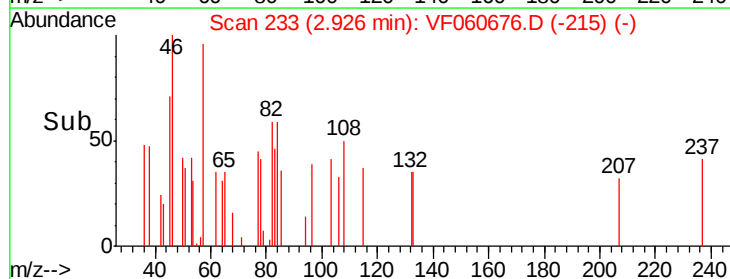
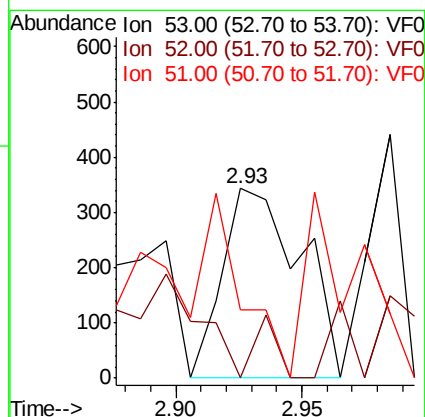
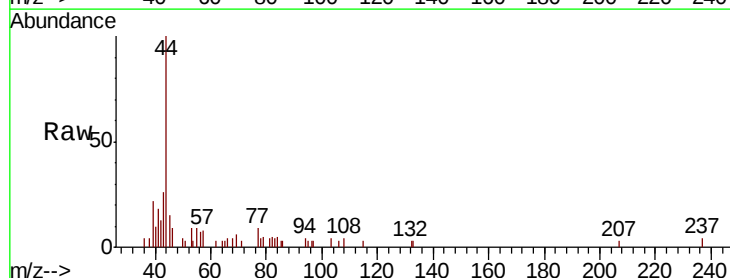
Tgt Ion: 53 Resp: 745

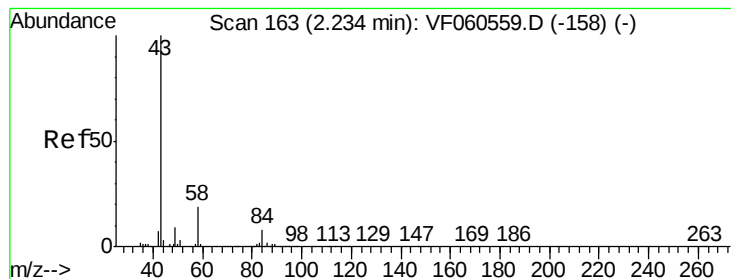
Ion Ratio Lower Upper

53 100

52 0.0 68.5 102.7#

51 27.5 38.2 57.2#





#16

Acetone

Concen: 37.532 ug/l

RT: 2.25 min Scan# 164

Delta R.T. 0.01 min

Lab File: VF060676.D

Acq: 9 Nov 2018 17:11

Instrument :

MSVOA_F

ClientSampleId :

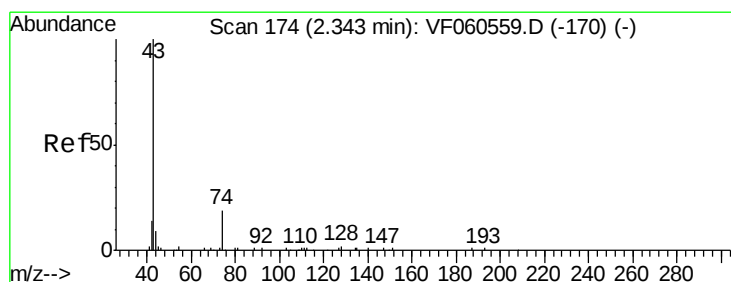
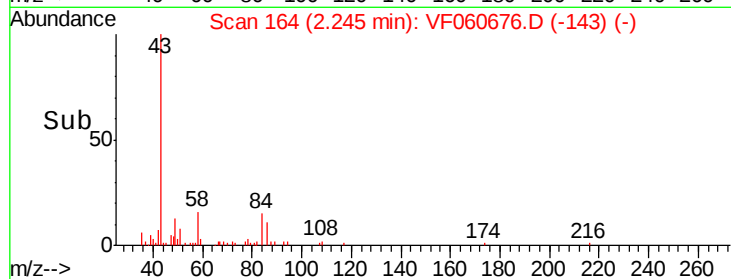
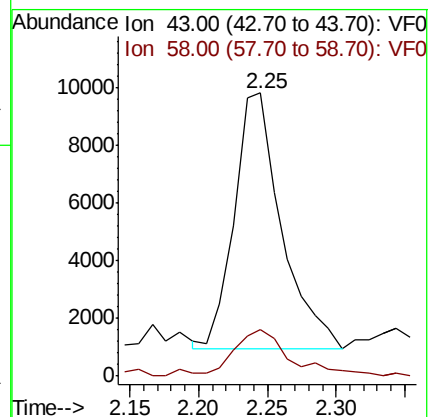
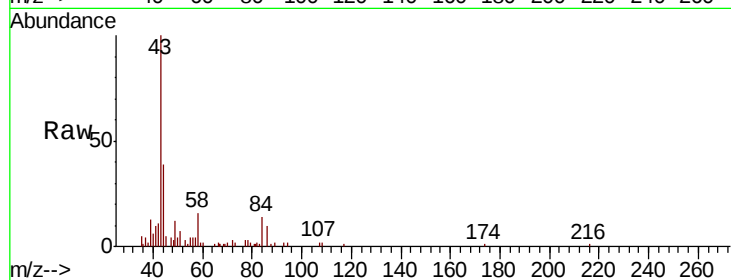
SB-12-SRE

Tgt Ion: 43 Resp: 21166

Ion Ratio Lower Upper

43 100

58 16.3 14.6 22.0



#18

Methyl Acetate

Concen: 1.416 ug/l

RT: 2.43 min Scan# 183

Delta R.T. 0.09 min

Lab File: VF060676.D

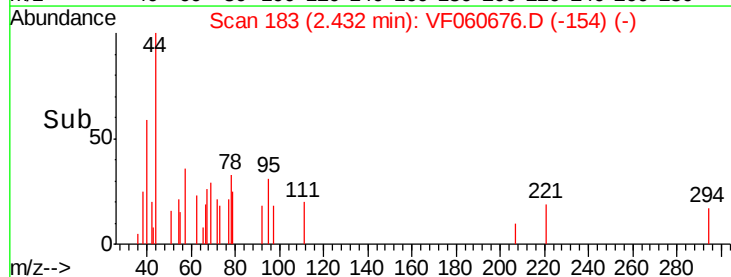
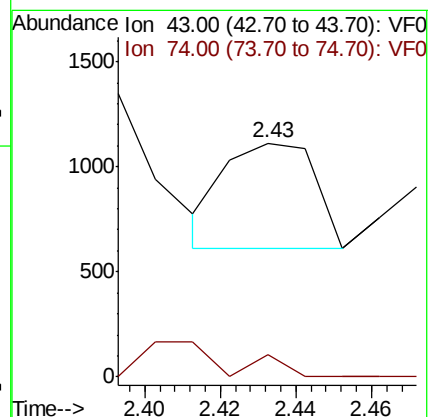
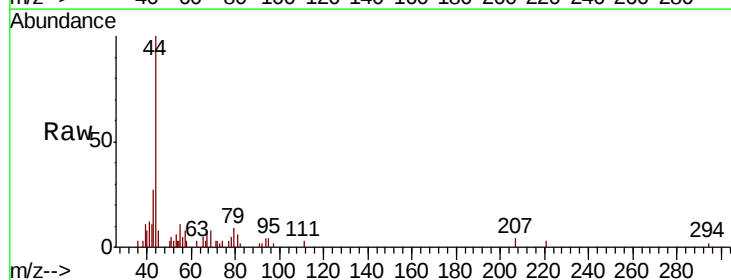
Acq: 9 Nov 2018 17:11

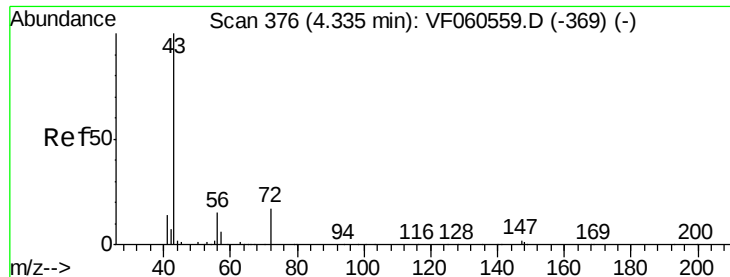
Tgt Ion: 43 Resp: 829

Ion Ratio Lower Upper

43 100

74 9.6 12.1 18.1#





#25

2-Butanone

Concen: Below Cal

RT: 4.36 min Scan# 378

Delta R.T. 0.02 min

Lab File: VF060676.D

Acq: 9 Nov 2018 17:11

Instrument :

MSVOA_F

ClientSampleId :

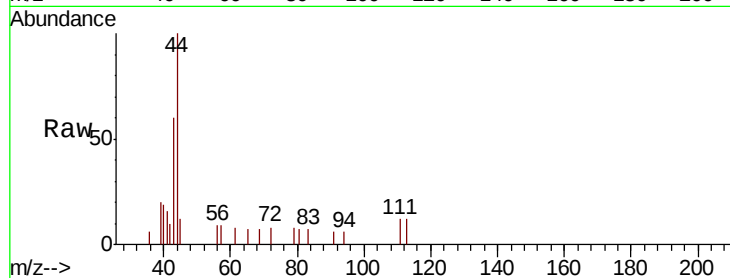
SB-12-SRE

Tgt Ion: 43 Resp: 3277

Ion Ratio Lower Upper

43 100

72 13.7 16.2 24.2#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 72.00 (71.70 to 72.70): VF0

4.36

1000

800

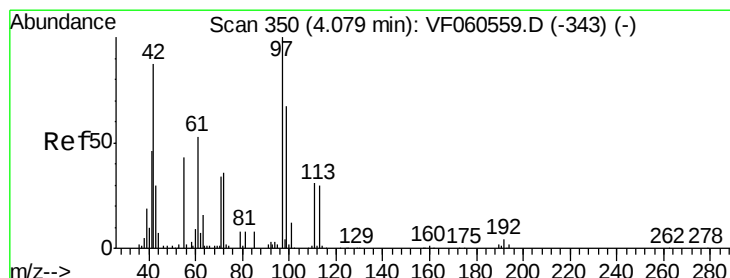
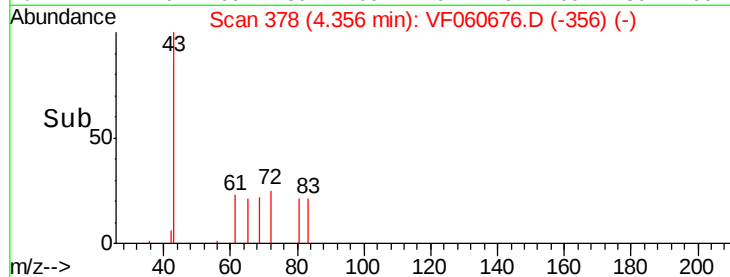
600

400

200

0

Time--> 4.25 4.30 4.35 4.40 4.45



#29

Tetrahydrofuran

Concen: Below Cal

RT: 4.08 min Scan# 350

Delta R.T. 0.00 min

Lab File: VF060676.D

Acq: 9 Nov 2018 17:11

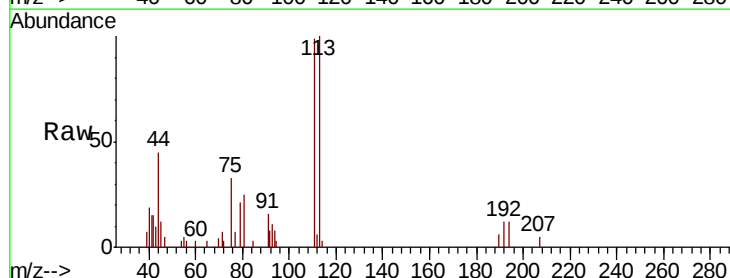
Tgt Ion: 42 Resp: 1294

Ion Ratio Lower Upper

42 100

72 13.8 31.4 47.0#

71 59.6 31.8 47.6#



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

800

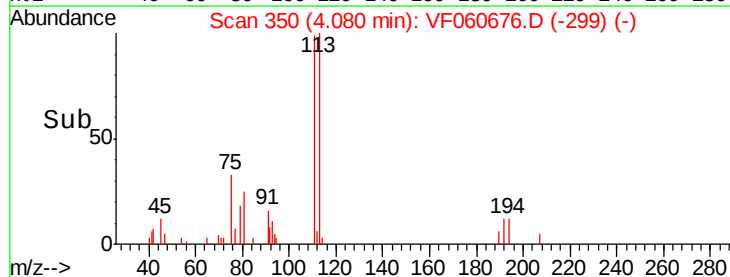
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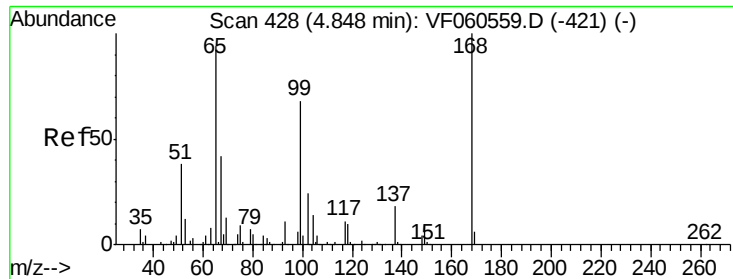
400

200

0

Time--> 4.00 4.05 4.10 4.15





#33

1,2-Dichloroethane-d4

Concen: 64.562 ug/l

RT: 4.86 min Scan# 429

Delta R.T. 0.01 min

Lab File: VF060676.D

Acq: 9 Nov 2018 17:11

Instrument :

MSVOA_F

ClientSampleId :

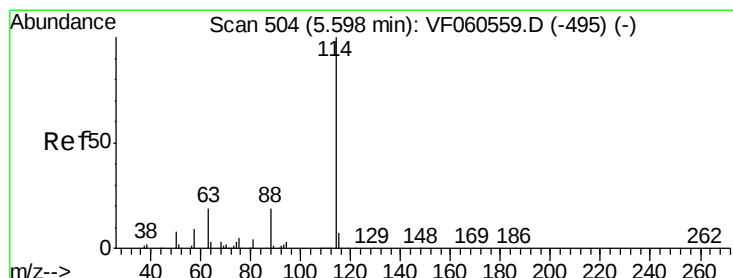
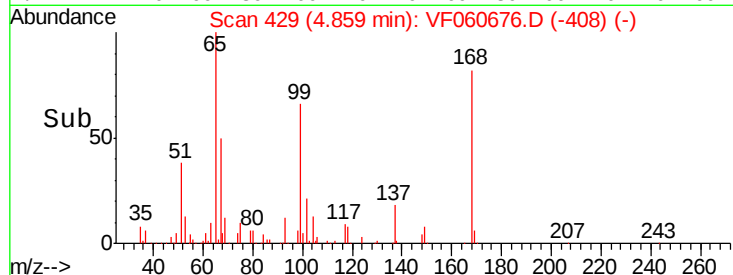
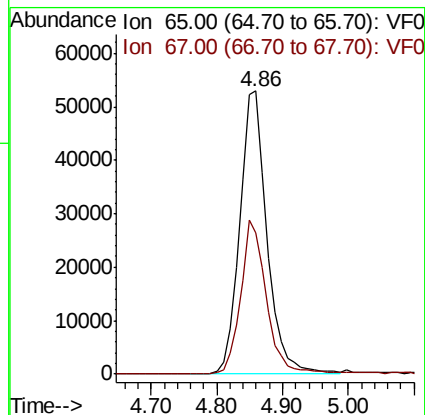
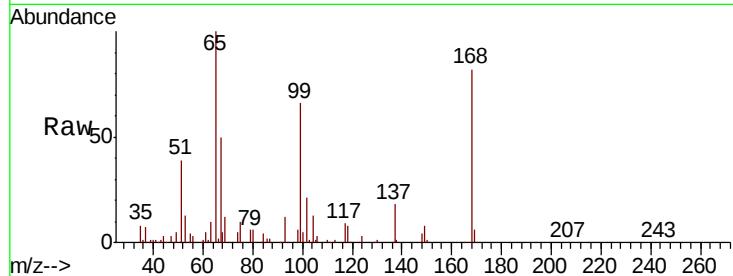
SB-12-SRE

Tgt Ion: 65 Resp: 154515

Ion Ratio Lower Upper

65 100

67 50.1 0.0 101.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.61 min Scan# 505

Delta R.T. 0.01 min

Lab File: VF060676.D

Acq: 9 Nov 2018 17:11

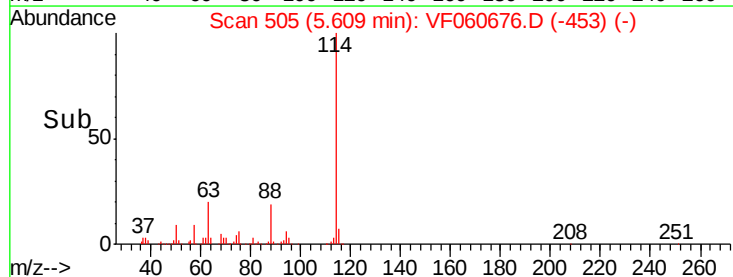
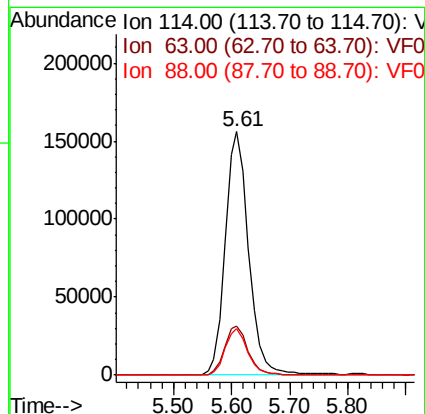
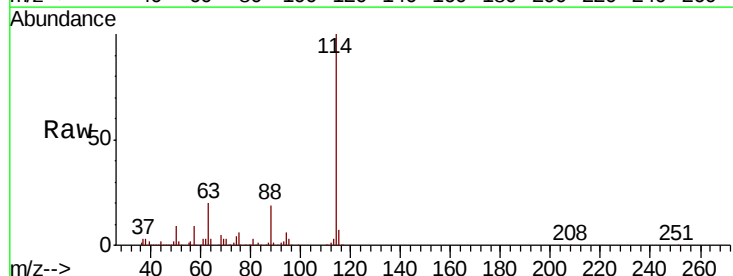
Tgt Ion: 114 Resp: 434934

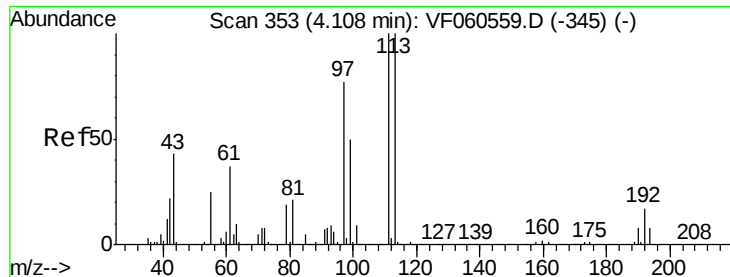
Ion Ratio Lower Upper

114 100

63 20.2 0.0 39.0

88 19.3 0.0 38.2

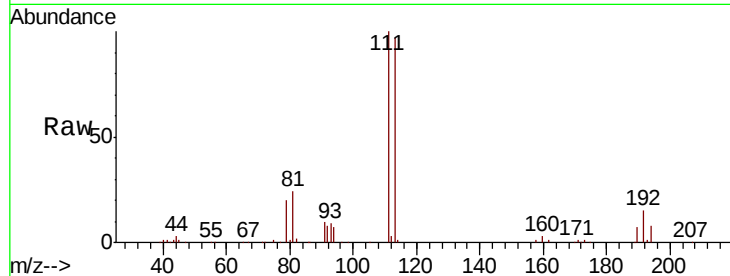




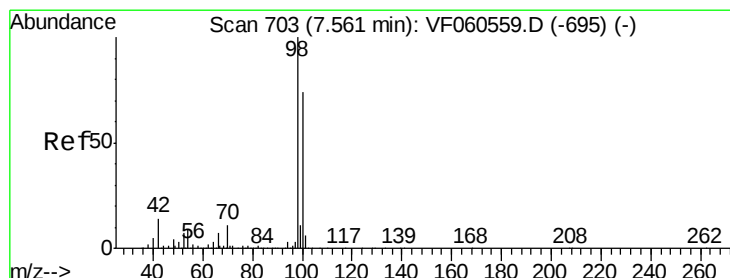
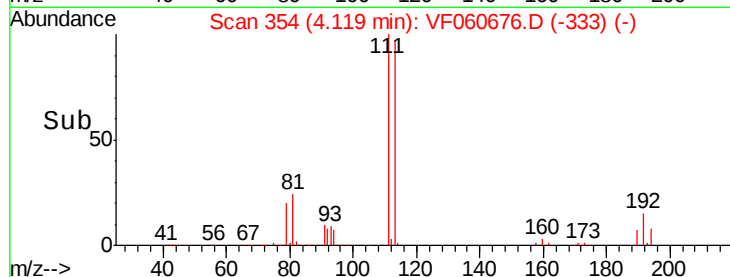
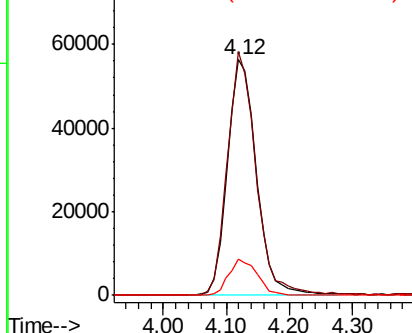
#35
Dibromofluoromethane
Concen: 53.463 ug/l
RT: 4.12 min Scan# 354
Delta R.T. 0.01 min
Lab File: VF060676.D
Acq: 9 Nov 2018 17:11

Instrument :
MSVOA_F
ClientSampleId :
SB-12-SRE

Tgt Ion:113 Resp: 179650
Ion Ratio Lower Upper
113 100
111 103.3 79.9 119.9
192 15.2 13.3 19.9

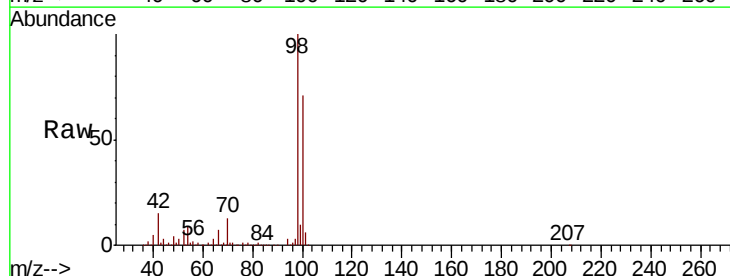


Abundance Ion 113.00 (112.70 to 113.70): V
Ion 111.00 (110.70 to 111.70): V
Ion 192.00 (191.70 to 192.70): V

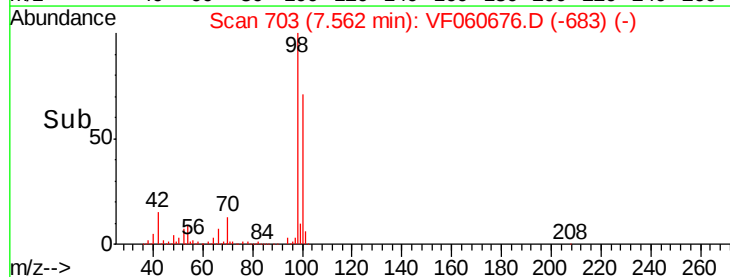
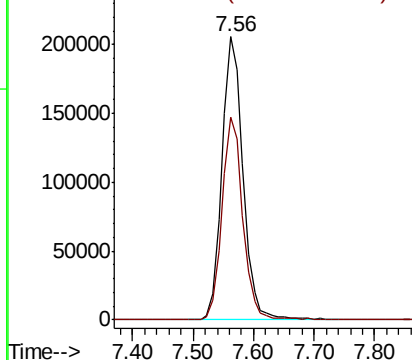


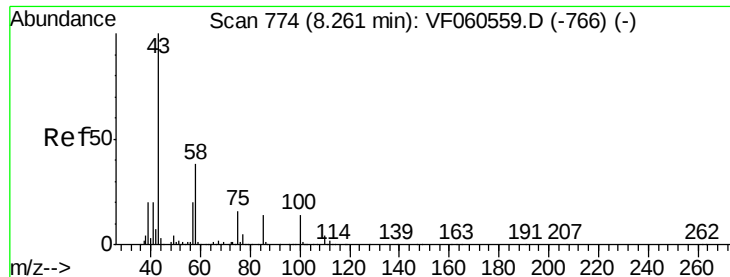
#50
Toluene-d8
Concen: 50.198 ug/l
RT: 7.56 min Scan# 703
Delta R.T. 0.00 min
Lab File: VF060676.D
Acq: 9 Nov 2018 17:11

Tgt Ion: 98 Resp: 499679
Ion Ratio Lower Upper
98 100
100 71.5 59.4 89.2



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





#51

4-Methyl-2-Pentanone

Concen: 1.151 ug/l

RT: 8.26 min Scan# 774

Delta R.T. 0.00 min

Lab File: VF060676.D

Acq: 9 Nov 2018 17:11

Instrument :

MSVOA_F

ClientSampleId :

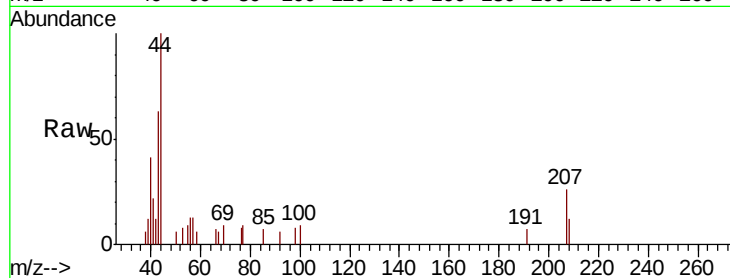
SB-12-SRE

Tgt Ion: 43 Resp: 2251

Ion Ratio Lower Upper

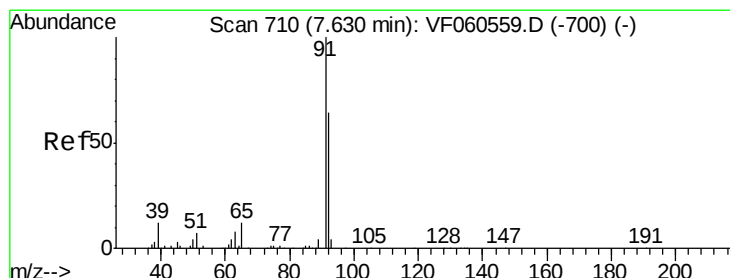
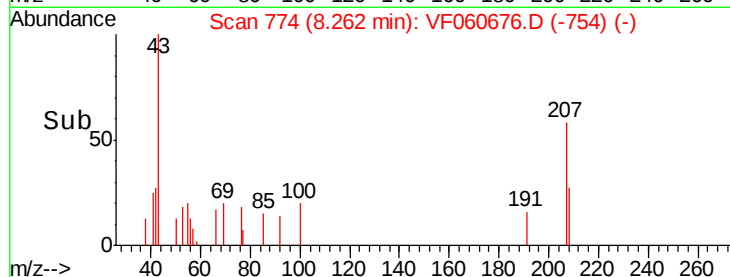
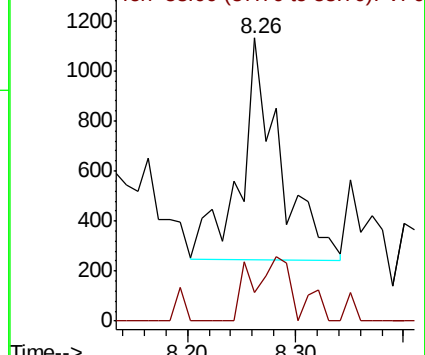
43 100

58 10.3 30.1 45.1#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#52

Toluene

Concen: 11.647 ug/l

RT: 7.63 min Scan# 710

Delta R.T. 0.00 min

Lab File: VF060676.D

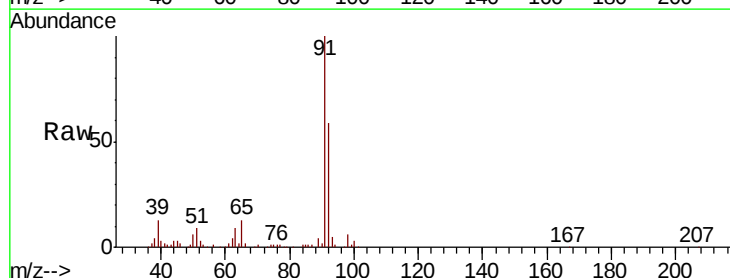
Acq: 9 Nov 2018 17:11

Tgt Ion: 92 Resp: 88191

Ion Ratio Lower Upper

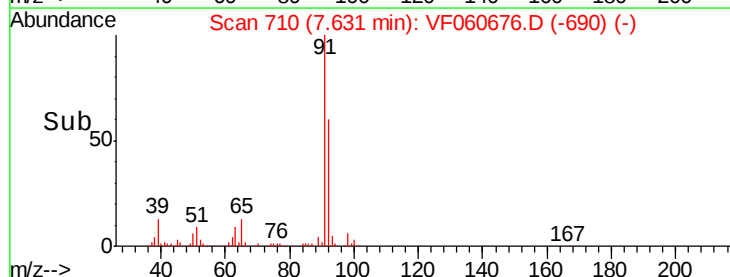
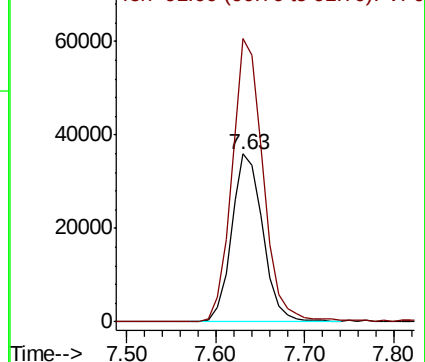
92 100

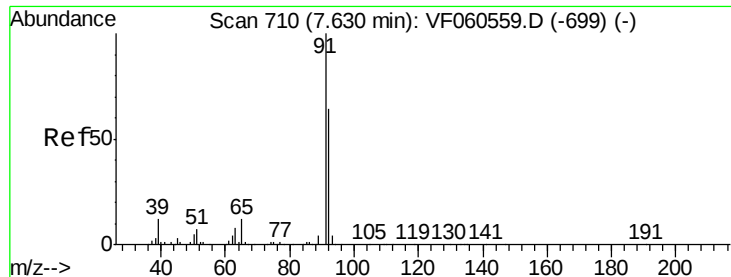
91 168.4 124.5 186.7



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0

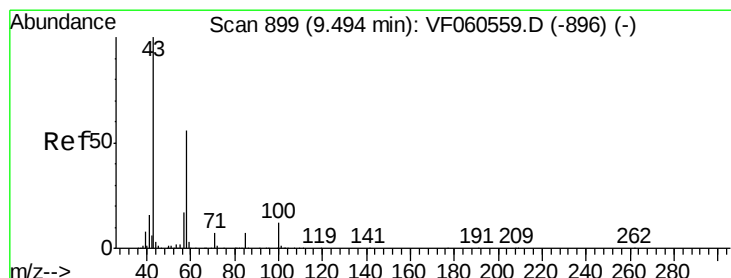
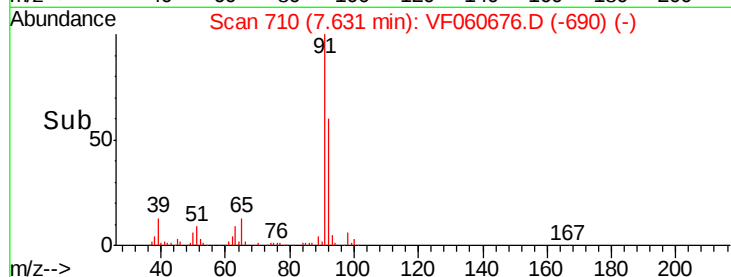
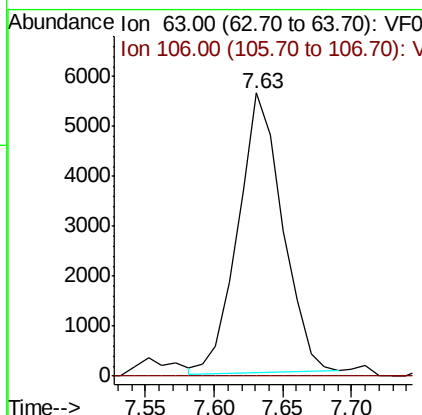
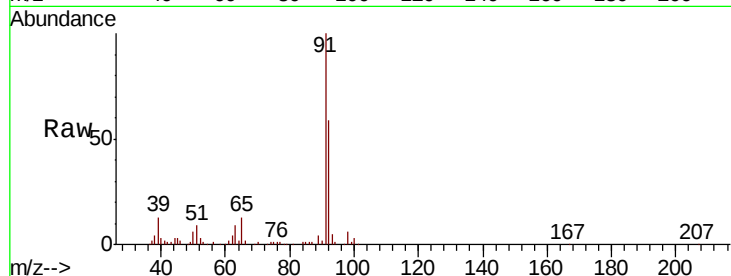




#58
 2-Chloroethyl Vinyl ether
 Concen: 53.296 ug/l
 RT: 7.63 min Scan# 710
 Delta R.T. 0.00 min
 Lab File: VF060676.D
 Acq: 9 Nov 2018 17:11

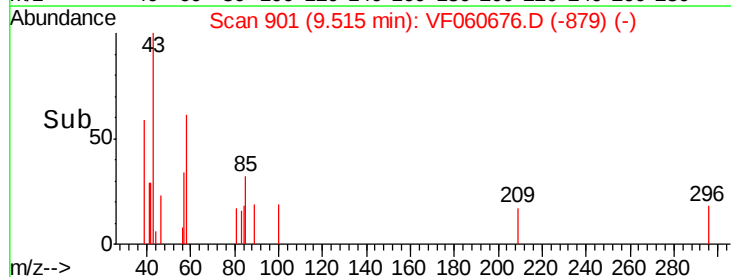
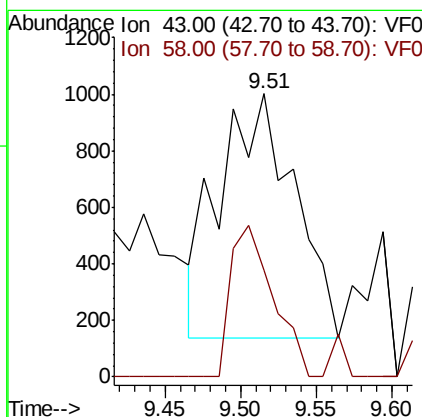
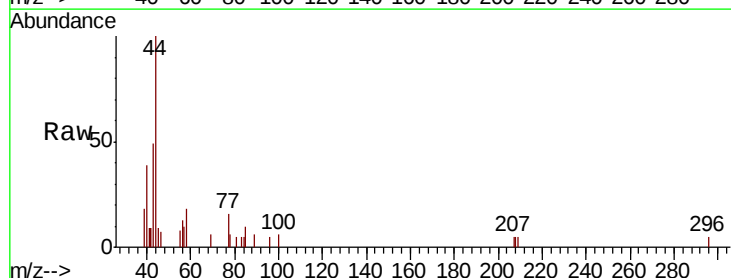
Instrument :
 MSVOA_F
 ClientSampleId :
 SB-12-SRE

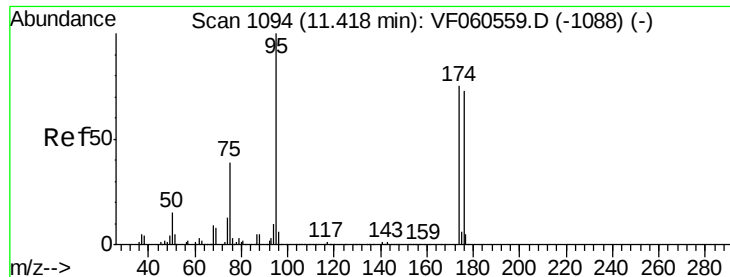
Tgt Ion: 63 Resp: 12642
 Ion Ratio Lower Upper
 63 100
 106 0.0 0.0 0.0



#59
 2-Hexanone
 Concen: Below Cal
 RT: 9.51 min Scan# 901
 Delta R.T. 0.02 min
 Lab File: VF060676.D
 Acq: 9 Nov 2018 17:11

Tgt Ion: 43 Resp: 2984
 Ion Ratio Lower Upper
 43 100
 58 37.6 26.1 78.3





#62

4-Bromofluorobenzene

Concen: 53.402 ug/l

RT: 11.42 min Scan# 1094

Delta R.T. 0.00 min

Lab File: VF060676.D

Acq: 9 Nov 2018 17:11

Instrument :

MSVOA_F

ClientSampleId :

SB-12-SRE

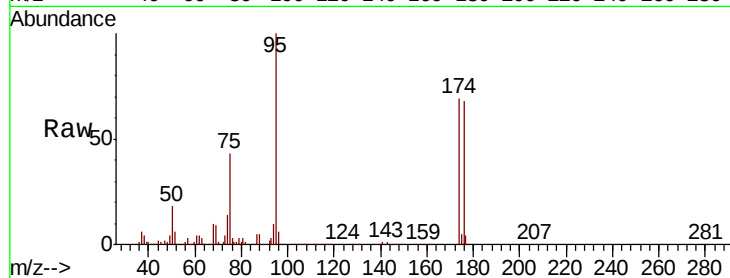
Tgt Ion: 95 Resp: 232519

Ion Ratio Lower Upper

95 100

174 69.4 0.0 149.0

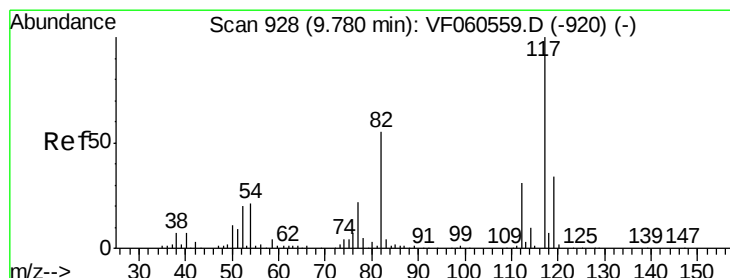
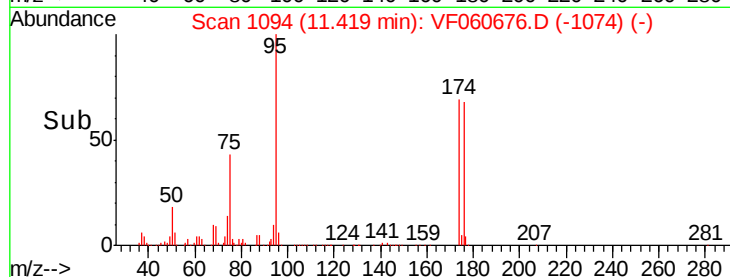
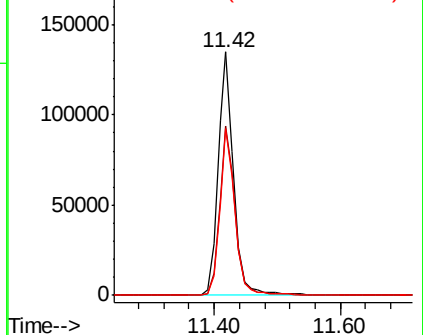
176 68.3 0.0 145.6



Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): VF0

Ion 176.00 (175.70 to 176.70): VF0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.78 min Scan# 928

Delta R.T. 0.00 min

Lab File: VF060676.D

Acq: 9 Nov 2018 17:11

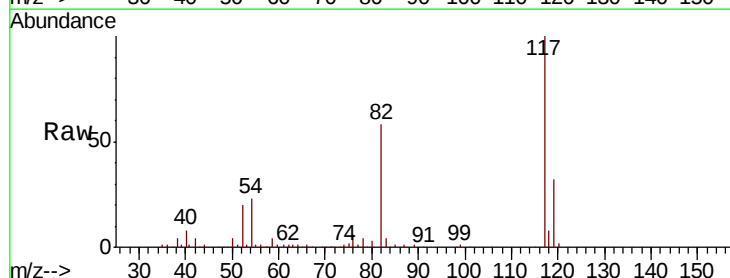
Tgt Ion: 117 Resp: 416193

Ion Ratio Lower Upper

117 100

82 57.9 43.9 65.9

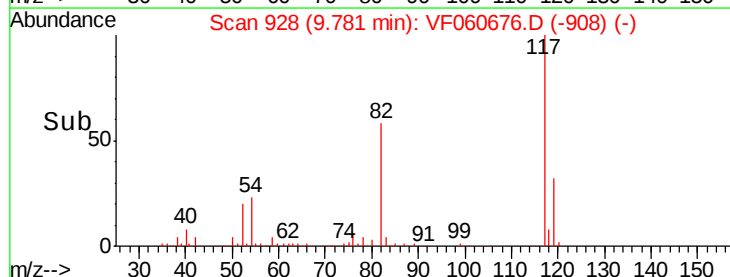
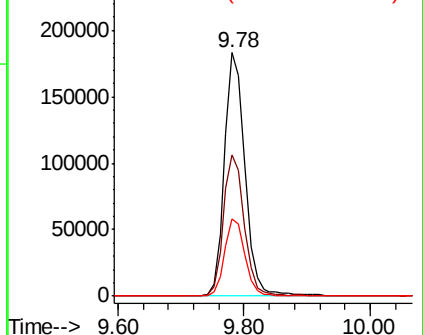
119 31.5 27.4 41.0

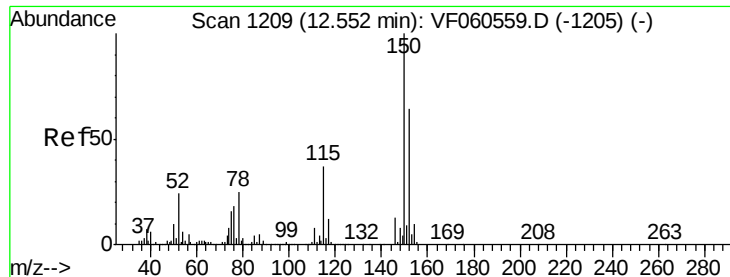


Abundance Ion 117.00 (116.70 to 117.70): VF0

Ion 82.00 (81.70 to 82.70): VF0

Ion 119.00 (118.70 to 119.70): VF0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.55 min Scan# 1209

Delta R.T. 0.00 min

Lab File: VF060676.D

Acq: 9 Nov 2018 17:11

Instrument :

MSVOA_F

ClientSampleId :

SB-12-SRE

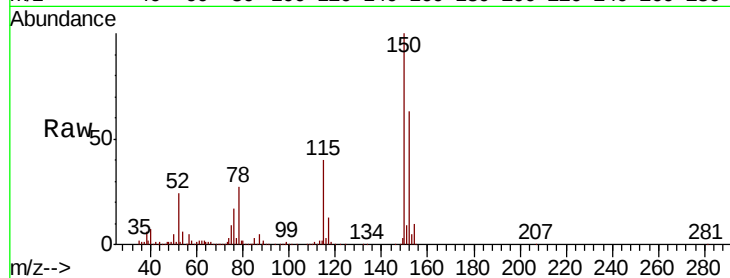
Tgt Ion:152 Resp: 214435

Ion Ratio Lower Upper

152 100

115 62.5 29.6 88.8

150 158.1 0.0 315.6

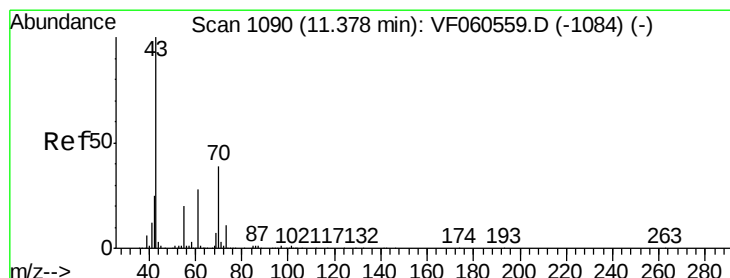
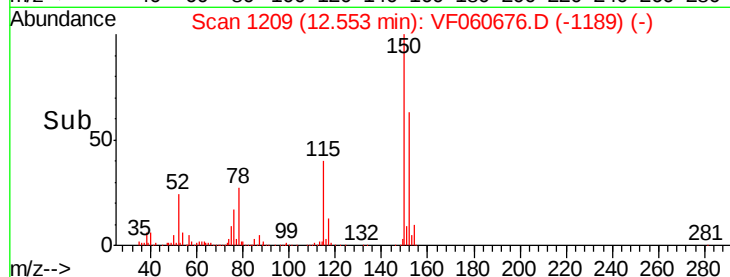
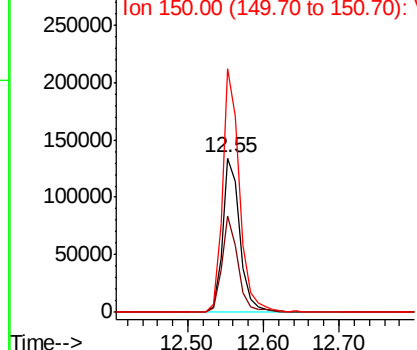


Abundance

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-amil acetate

Concen: Below Cal

RT: 11.39 min Scan# 1091

Delta R.T. 0.01 min

Lab File: VF060676.D

Acq: 9 Nov 2018 17:11

Tgt Ion: 43 Resp: 985

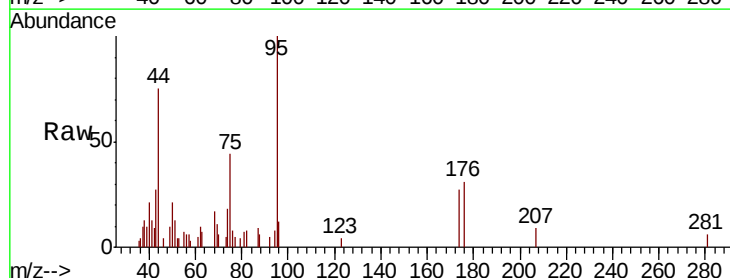
Ion Ratio Lower Upper

43 100

70 22.6 30.9 46.3#

55 26.8 16.6 24.8#

61 19.2 22.0 33.0#



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

