

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_F\DATA\VF111418\
 Data File : VF060731.D
 Acq On : 14 Nov 2018 18:27
 Operator : VA/AP
 Sample : J5925-01RE
 Misc : 12.61g/5mL/MSVOA-F/SOIL
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 TP-1S1RE

Quant Time: Nov 15 06:38:23 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F111318S.M
 Quant Title : SW846 8260
 QLast Update : Wed Nov 14 03:11:14 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.85	168	28923	50.00	ug/l	-0.04
34) 1,4-Difluorobenzene	5.57	114	32099	50.00	ug/l	-0.05
63) Chlorobenzene-d5	9.75	117	20319	50.00	ug/l	-0.04
72) 1,4-Dichlorobenzene-d4	12.53	152	4688	50.00	ug/l	-0.03

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.81	65	3412	10.34	ug/l	-0.05
Spiked Amount			Recovery	=	20.68%	
35) Dibromofluoromethane	4.09	113	5832	24.17	ug/l	-0.04
Spiked Amount			Recovery	=	48.34%	
50) Toluene-d8	7.53	98	29250	47.02	ug/l	-0.04
Spiked Amount			Recovery	=	94.04%	
62) 4-Bromofluorobenzene	11.40	95	6515	20.42	ug/l	-0.02
Spiked Amount			Recovery	=	40.84%	

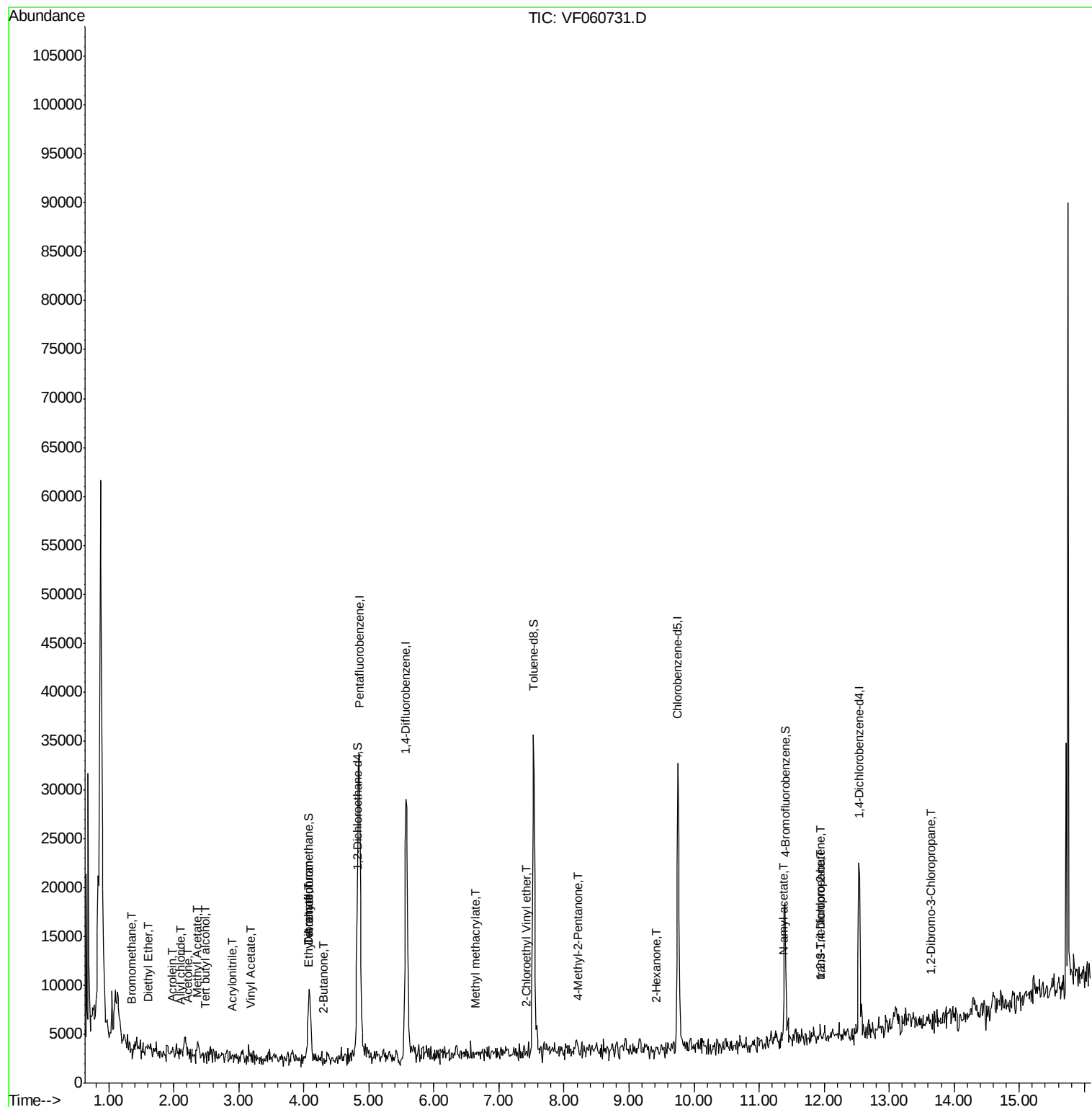
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.35	94	228	1.250	ug/l #	5
8) Diethyl Ether	1.62	74	83	1.020	ug/l #	1
11) Tert butyl alcohol	2.49	59	101	6.727	ug/l #	67
13) Acrolein	1.99	56	265	19.303	ug/l #	14
14) Allyl chloride	2.11	41	712	1.722	ug/l #	27
15) Acrylonitrile	2.89	53	69	2.157	ug/l #	15
16) Acetone	2.21	43	973	13.799	ug/l #	65
18) Methyl Acetate	2.35	43	986	8.516	ug/l #	64
23) Vinyl Acetate	3.18	43	864	2.299	ug/l #	77
25) 2-Butanone	4.32	43	428	3.690	ug/l #	56
29) Tetrahydrofuran	4.07	42	79	1.651	ug/l #	36
37) Ethyl Acetate	4.06	43	403	2.912	ug/l #	1
41) Methacrylonitrile	4.71	41	297	Below Cal	#	26
48) Methyl methacrylate	6.63	41	589	4.850	ug/l #	52
51) 4-Methyl-2-Pentanone	8.22	43	592	4.461	ug/l #	38
58) 2-Chloroethyl Vinyl ether	7.42	63	65	3.943	ug/l	100
59) 2-Hexanone	9.42	43	490	5.254	ug/l #	28
74) N-amyl acetate	11.37	43	322	3.748	ug/l #	66
76) 1,2,3-Trichloropropane	11.95	75	72	1.554	ug/l #	41
81) trans-1,4-Dichloro-2-buten	11.95	75	72	3.163	ug/l #	60
92) 1,2-Dibromo-3-Chloropropan	13.65	75	75	6.396	ug/l #	7

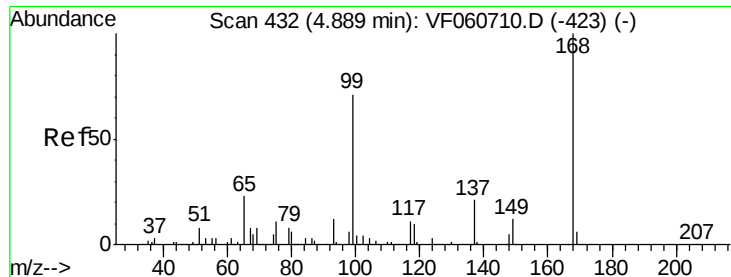
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Nov 14 03:11:14 2018
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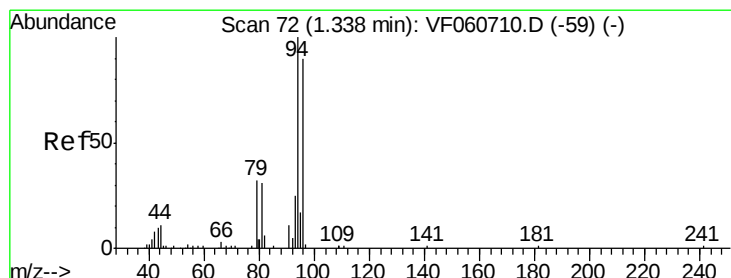
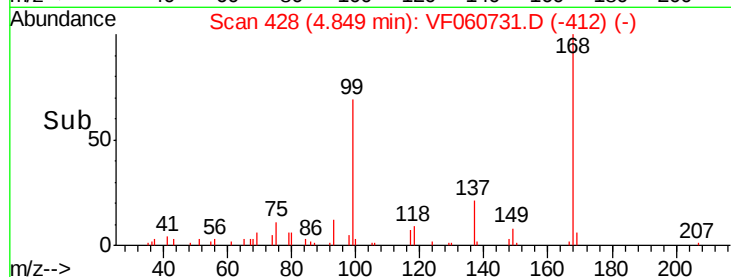
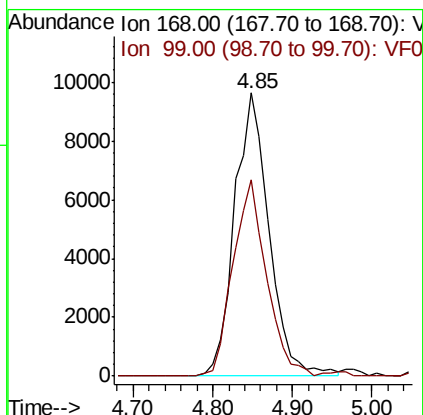
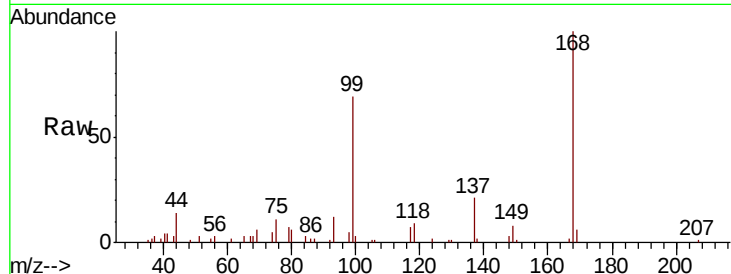




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 4.85 min Scan# 428
Delta R.T. -0.04 min
Lab File: VF060731.D
Acq: 14 Nov 2018 18:27

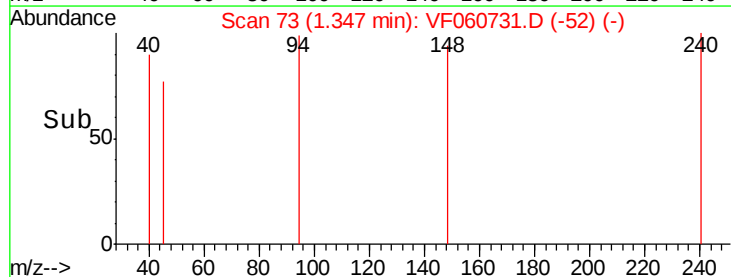
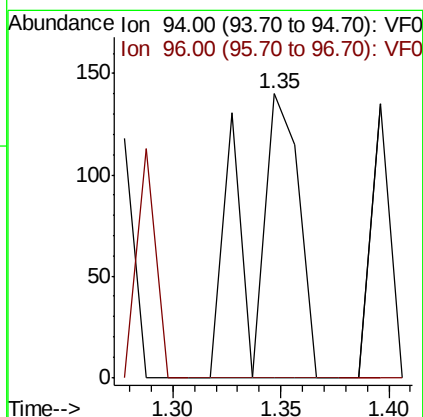
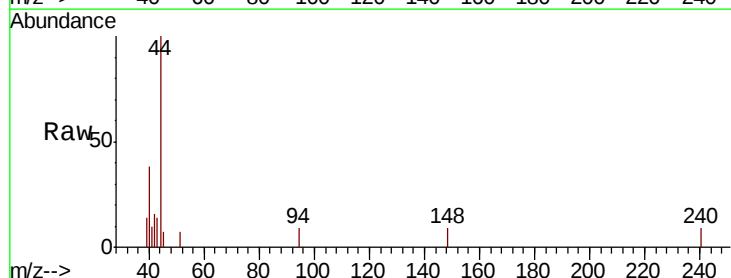
Instrument :
MSVOA_F
ClientSampleId :
TP-1S1RE

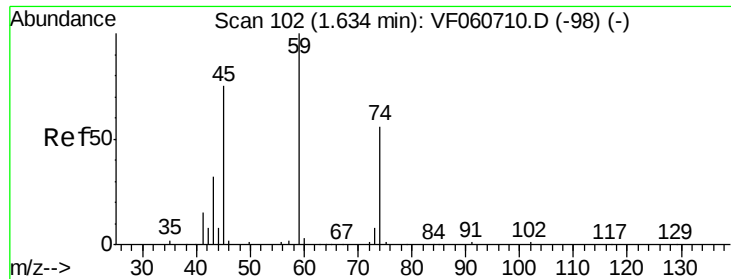
Tgt Ion: 168 Resp: 28923
Ion Ratio Lower Upper
168 100
99 69.5 57.2 85.8



#5
Bromomethane
Concen: 1.250 ug/l
RT: 1.35 min Scan# 73
Delta R.T. 0.01 min
Lab File: VF060731.D
Acq: 14 Nov 2018 18:27

Tgt Ion: 94 Resp: 228
Ion Ratio Lower Upper
94 100
96 0.0 71.9 107.9#





#8

Diethyl Ether

Concen: 1.020 ug/l

RT: 1.62 min Scan# 101

Delta R.T. -0.01 min

Lab File: VF060731.D

Acq: 14 Nov 2018 18:27

Instrument :

MSVOA_F

ClientSampleId :

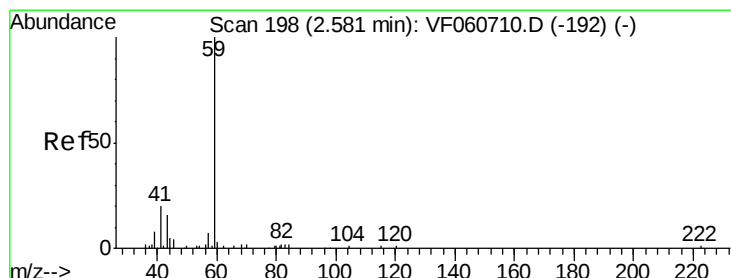
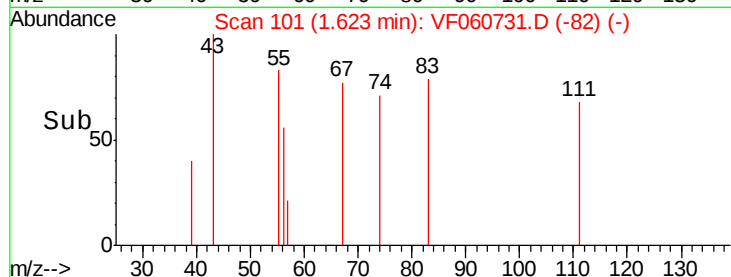
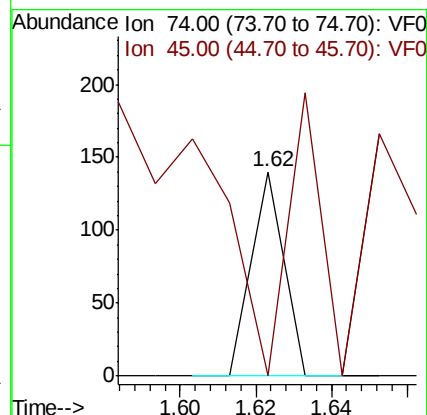
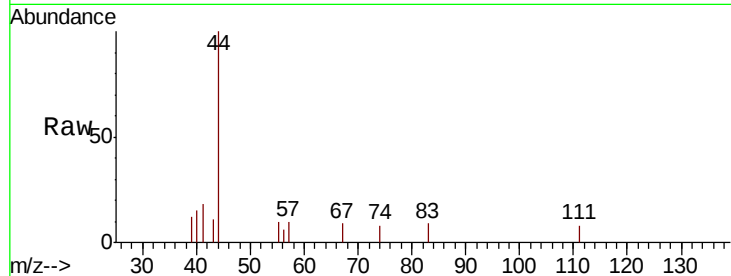
TP-1S1RE

Tgt Ion: 74 Resp: 83

Ion Ratio Lower Upper

74 100

45 0.0 67.7 203.1#



#11

Tert butyl alcohol

Concen: 6.727 ug/l

RT: 2.49 min Scan# 189

Delta R.T. -0.09 min

Lab File: VF060731.D

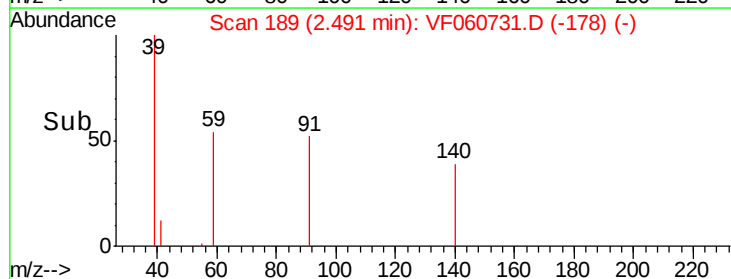
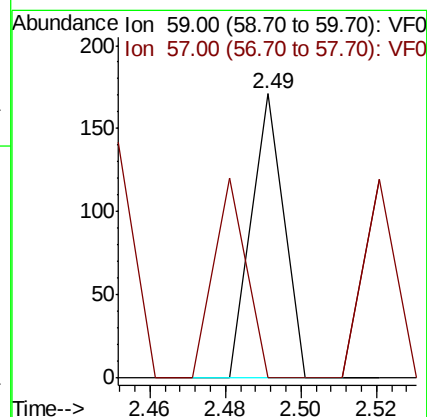
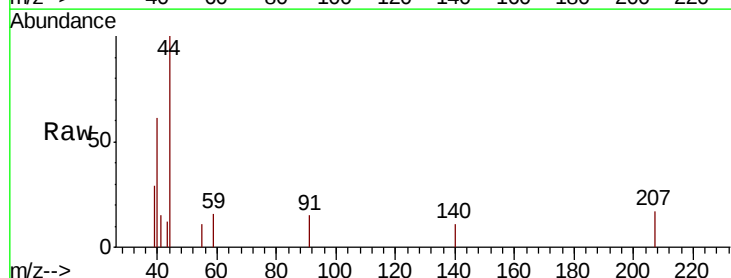
Acq: 14 Nov 2018 18:27

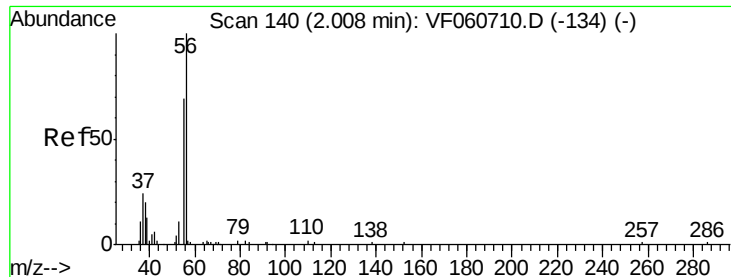
Tgt Ion: 59 Resp: 101

Ion Ratio Lower Upper

59 100

57 0.0 10.5 15.7#





#13

Acrolein

Concen: 19.303 ug/l

RT: 1.99 min Scan# 138

Delta R.T. -0.02 min

Lab File: VF060731.D

Acq: 14 Nov 2018 18:27

Instrument :

MSVOA_F

ClientSampled :

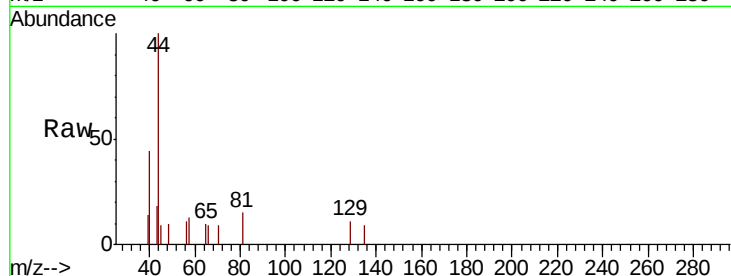
TP-1S1RE

Tgt Ion: 56 Resp: 265

Ion Ratio Lower Upper

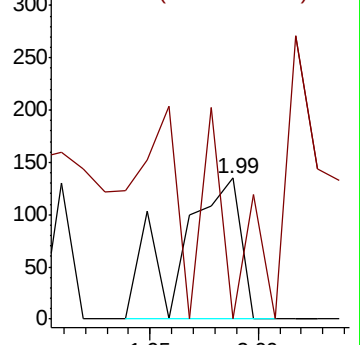
56 100

55 0.0 56.6 85.0#

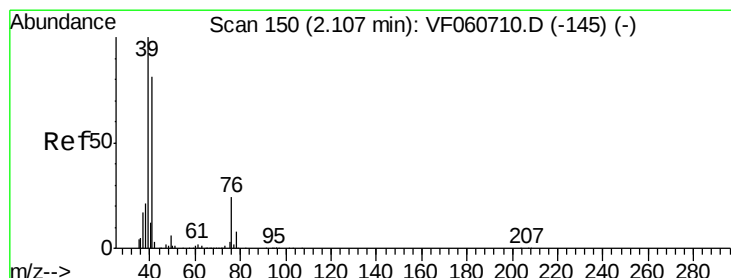
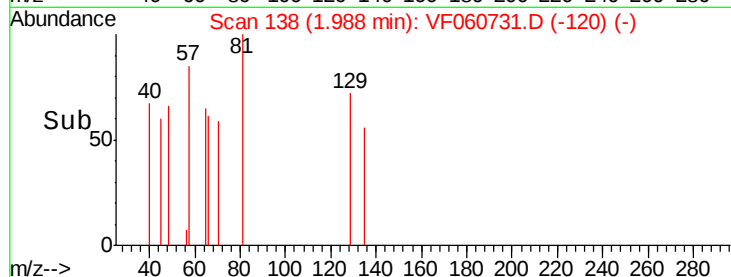


Abundance Ion 56.00 (55.70 to 56.70): VF0

Ion 55.00 (54.70 to 55.70): VF0



Time-->



#14

Allyl chloride

Concen: 1.722 ug/l

RT: 2.11 min Scan# 150

Delta R.T. -0.00 min

Lab File: VF060731.D

Acq: 14 Nov 2018 18:27

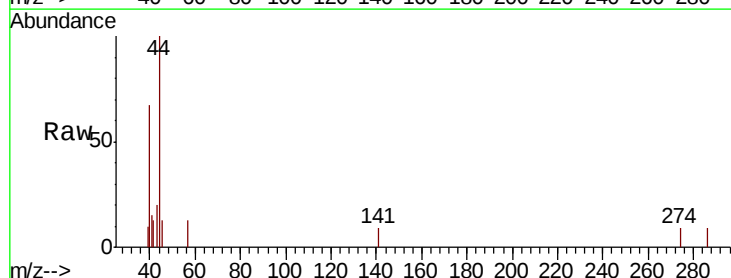
Tgt Ion: 41 Resp: 712

Ion Ratio Lower Upper

41 100

39 36.6 98.5 147.7#

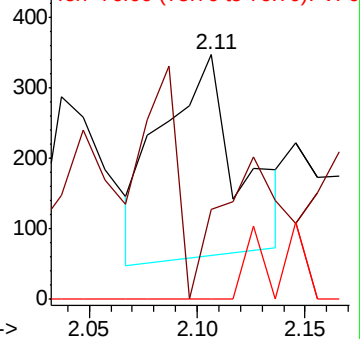
76 0.0 24.5 36.7#



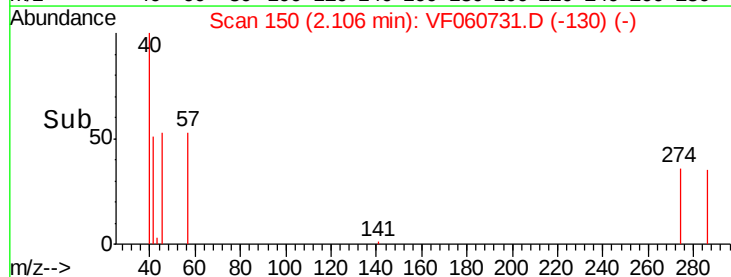
Abundance Ion 41.00 (40.70 to 41.70): VF0

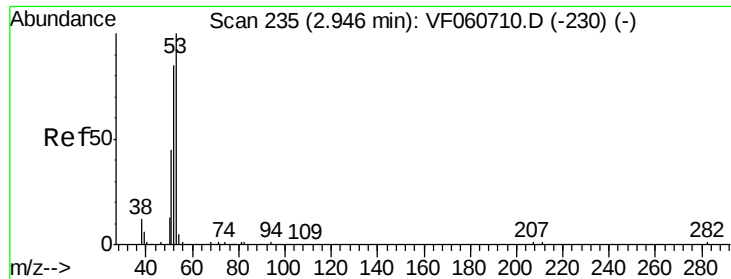
Ion 39.00 (38.70 to 39.70): VF0

Ion 76.00 (75.70 to 76.70): VF0



Time-->

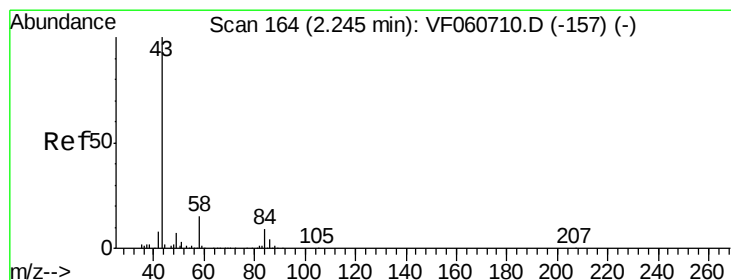
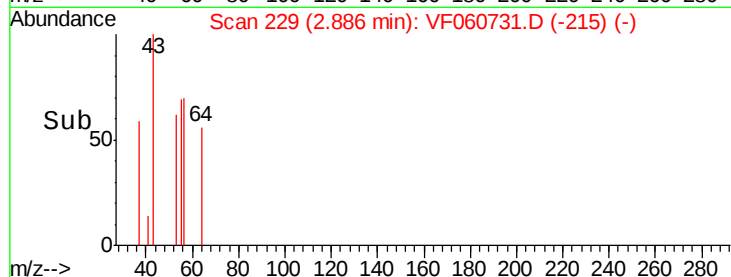
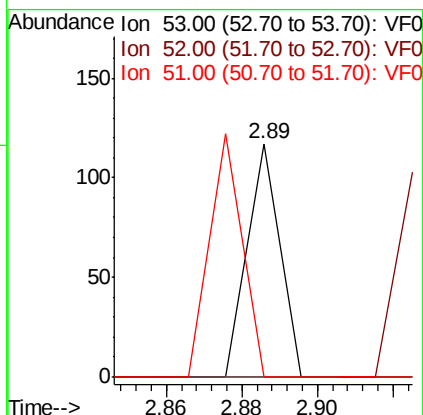
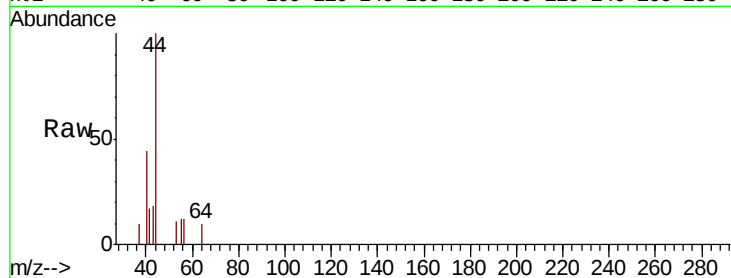




#15
 Acrylonitrile
 Concen: 2.157 ug/l
 RT: 2.89 min Scan# 229
 Delta R.T. -0.06 min
 Lab File: VF060731.D
 Acq: 14 Nov 2018 18:27

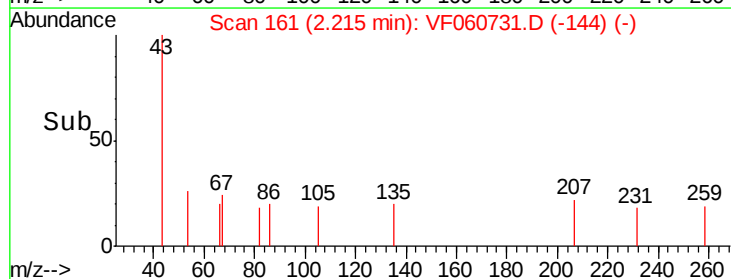
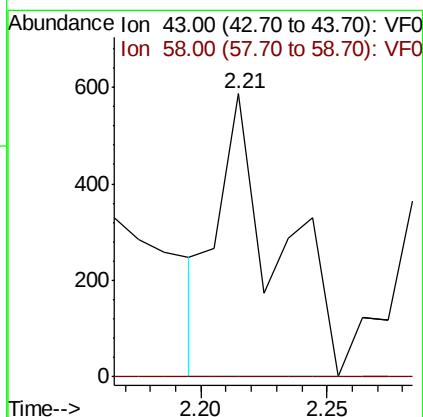
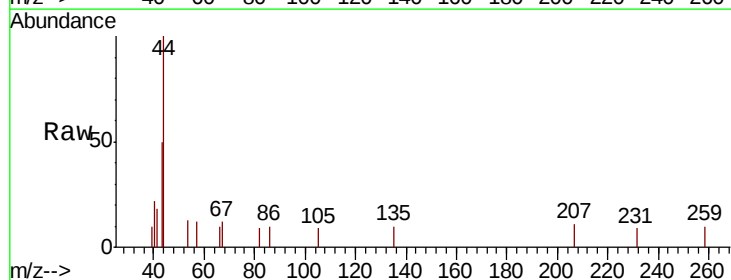
Instrument :
 MSVOA_F
 ClientSampleId :
 TP-1S1RE

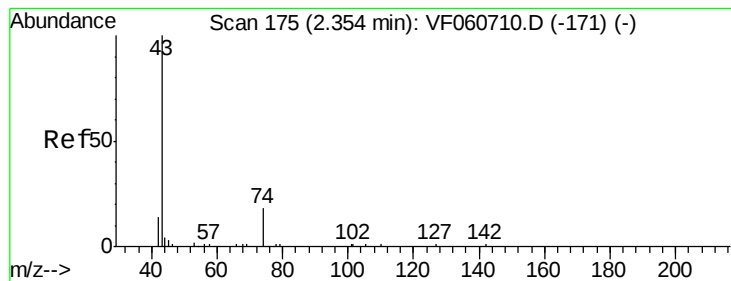
Tgt Ion: 53 Resp: 69
 Ion Ratio Lower Upper
 53 100
 52 0.0 68.8 103.2#
 51 0.0 36.7 55.1#



#16
 Acetone
 Concen: 13.799 ug/l
 RT: 2.21 min Scan# 161
 Delta R.T. -0.03 min
 Lab File: VF060731.D
 Acq: 14 Nov 2018 18:27

Tgt Ion: 43 Resp: 973
 Ion Ratio Lower Upper
 43 100
 58 0.0 11.6 17.4#





#18

Methyl Acetate

Concen: 8.516 ug/l

RT: 2.35 min Scan# 175

Delta R.T. -0.00 min

Lab File: VF060731.D

Acq: 14 Nov 2018 18:27

Instrument :

MSVOA_F

ClientSampleId :

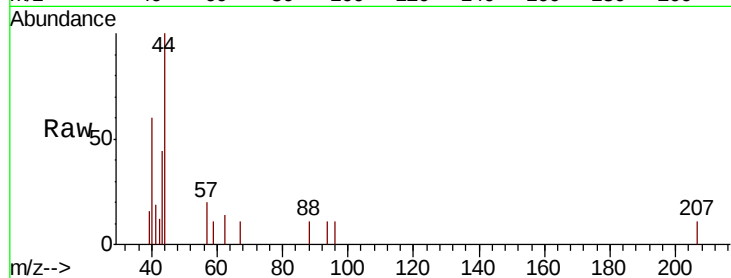
TP-1S1RE

Tgt Ion: 43 Resp: 986

Ion Ratio Lower Upper

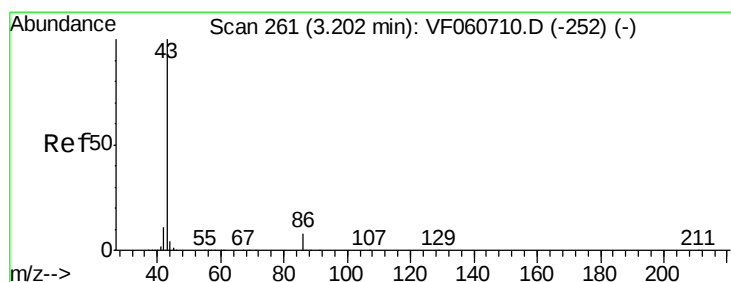
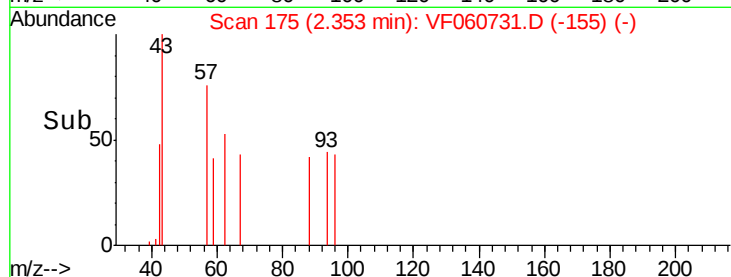
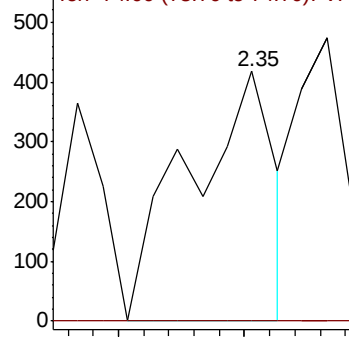
43 100

74 0.0 11.8 17.8#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 74.00 (73.70 to 74.70): VF0



#23

Vinyl Acetate

Concen: 2.299 ug/l

RT: 3.18 min Scan# 259

Delta R.T. -0.02 min

Lab File: VF060731.D

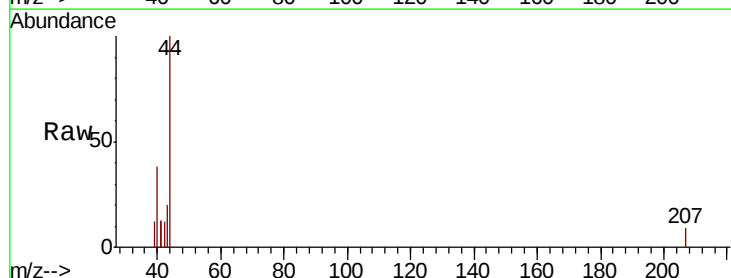
Acq: 14 Nov 2018 18:27

Tgt Ion: 43 Resp: 864

Ion Ratio Lower Upper

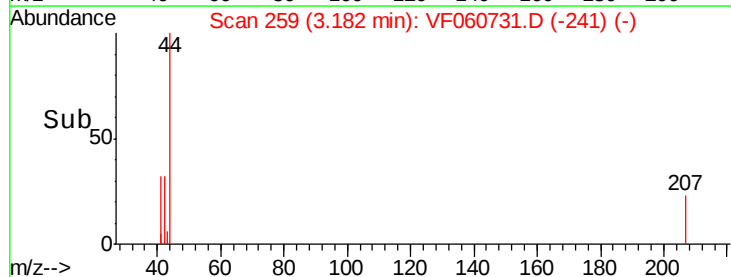
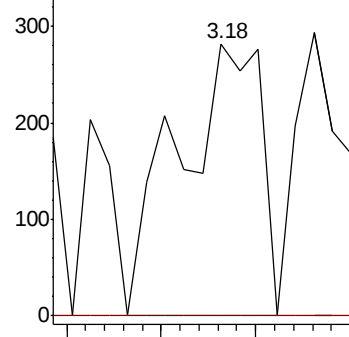
43 100

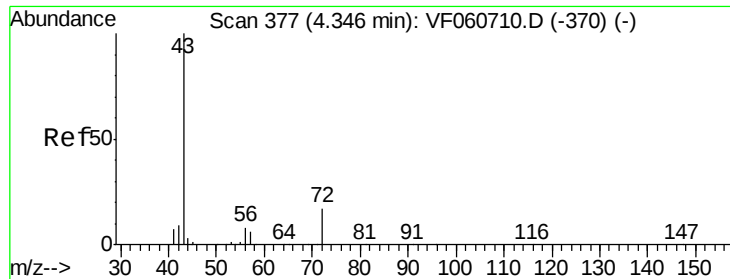
86 0.0 6.4 9.6#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 86.00 (85.70 to 86.70): VF0





#25

2-Butanone

Concen: 3.690 ug/l

RT: 4.32 min Scan# 374

Delta R.T. -0.03 min

Lab File: VF060731.D

Acq: 14 Nov 2018 18:27

Instrument :

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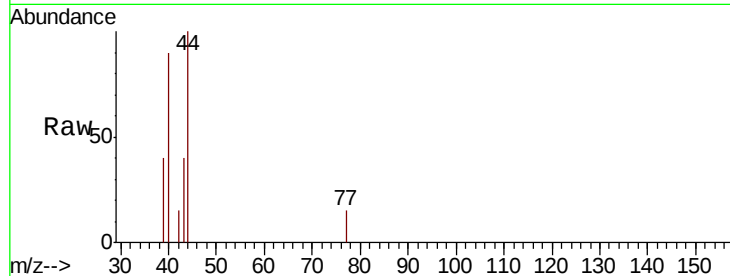
TP-1S1RE

Tgt Ion: 43 Resp: 428

Ion Ratio Lower Upper

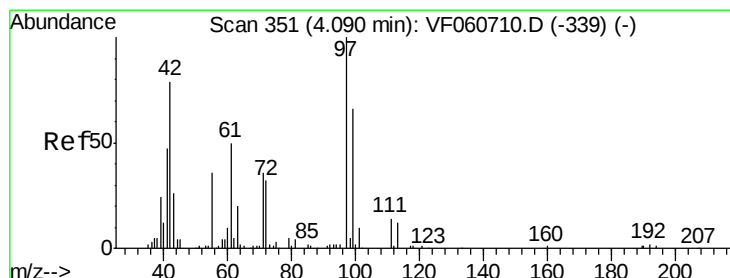
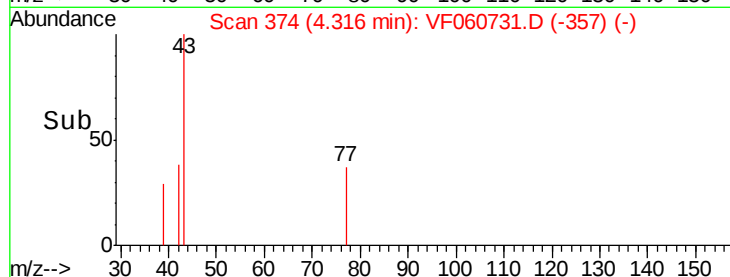
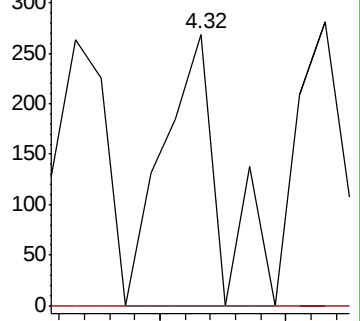
43 100

72 0.0 16.1 24.1#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 72.00 (71.70 to 72.70): VF0



#29

Tetrahydrofuran

Concen: 1.651 ug/l

RT: 4.07 min Scan# 349

Delta R.T. -0.02 min

Lab File: VF060731.D

Acq: 14 Nov 2018 18:27

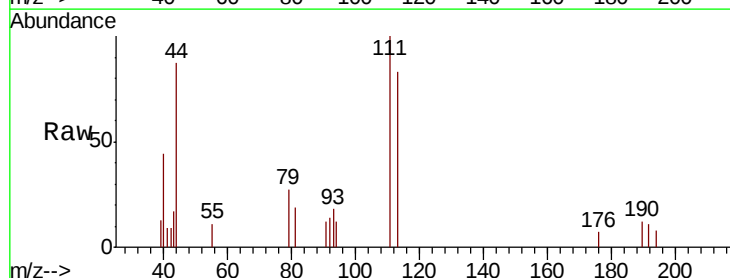
Tgt Ion: 42 Resp: 79

Ion Ratio Lower Upper

42 100

72 0.0 30.3 45.5#

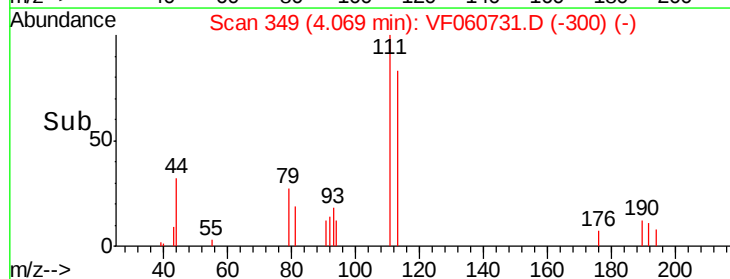
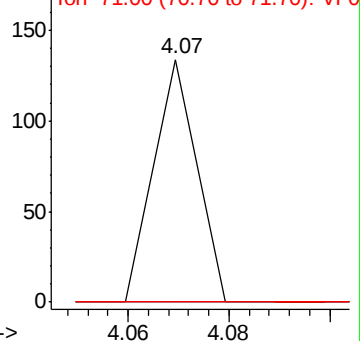
71 0.0 32.2 48.2#

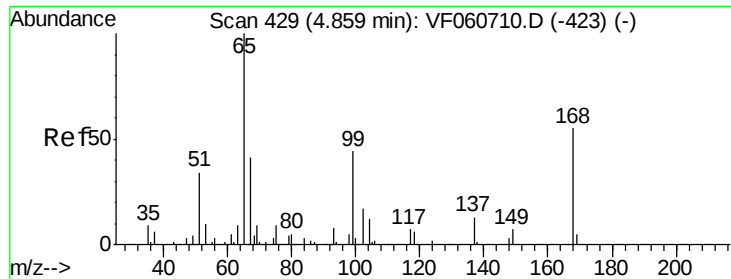


Abundance Ion 42.00 (41.70 to 42.70): VF0

Ion 72.00 (71.70 to 72.70): VF0

Ion 71.00 (70.70 to 71.70): VF0





#33

1,2-Dichloroethane-d4

Concen: 10.343 ug/l

RT: 4.81 min Scan# 424

Delta R.T. -0.05 min

Lab File: VF060731.D

Acq: 14 Nov 2018 18:27

Instrument :

MSVOA_F

ClientSampleId :

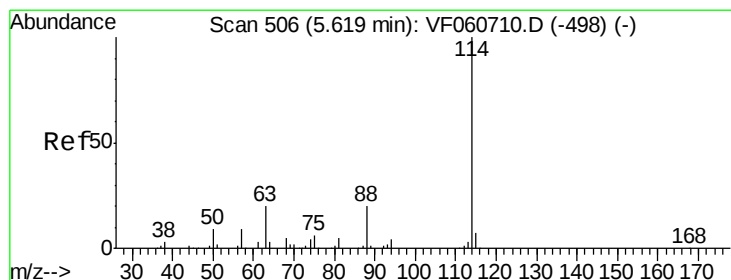
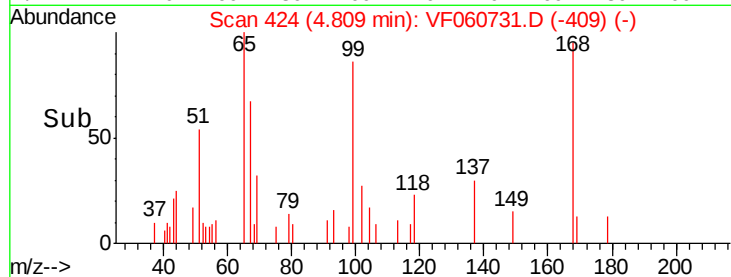
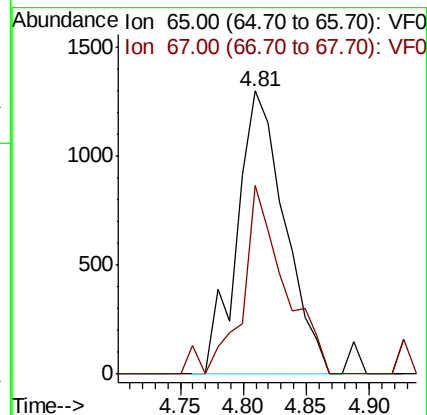
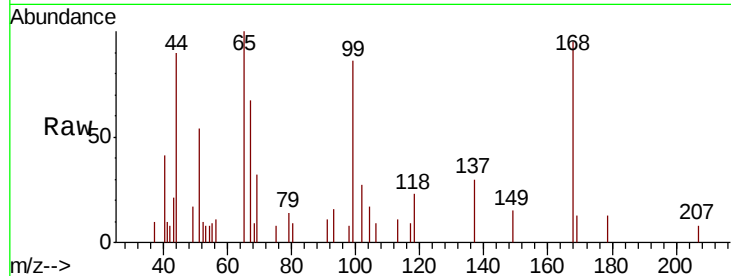
TP-1S1RE

Tgt Ion: 65 Resp: 3412

Ion Ratio Lower Upper

65 100

67 66.8 0.0 90.2



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.57 min Scan# 501

Delta R.T. -0.05 min

Lab File: VF060731.D

Acq: 14 Nov 2018 18:27

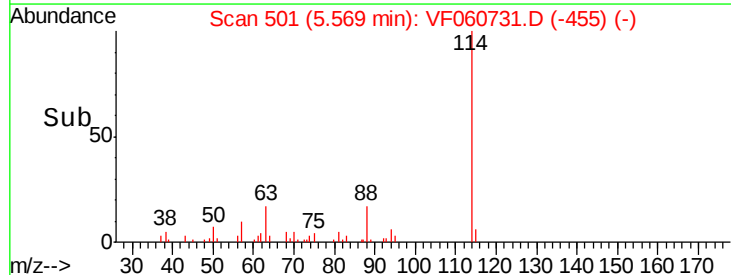
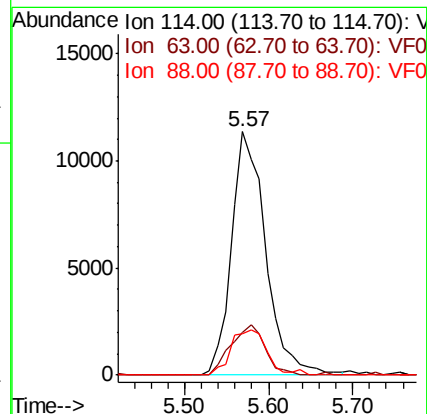
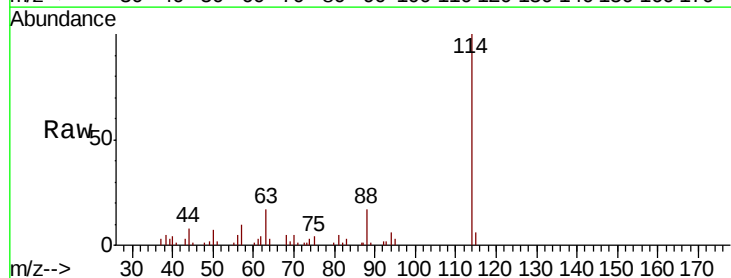
Tgt Ion: 114 Resp: 32099

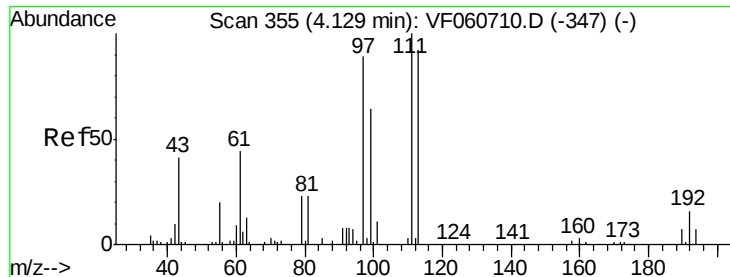
Ion Ratio Lower Upper

114 100

63 17.4 0.0 40.8

88 17.1 0.0 39.6

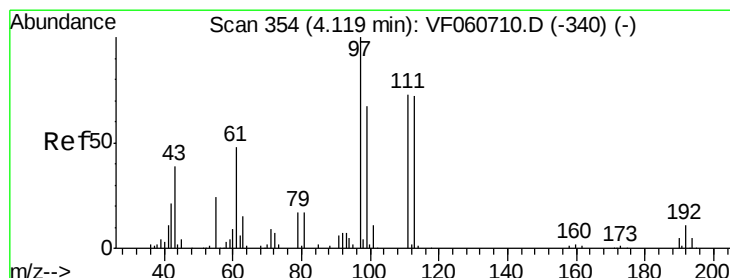
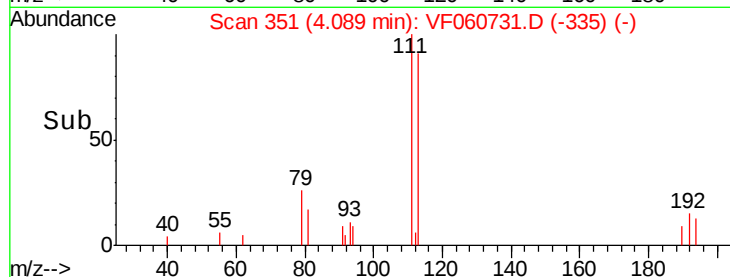
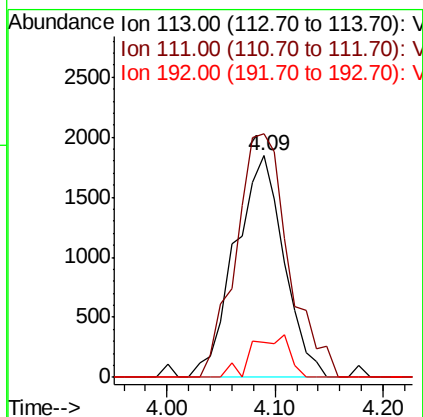
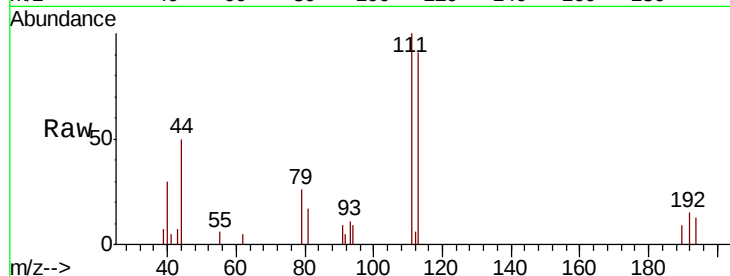




#35
 Dibromofluoromethane
 Concen: 24.171 ug/l
 RT: 4.09 min Scan# 351
 Delta R.T. -0.04 min
 Lab File: VF060731.D
 Acq: 14 Nov 2018 18:27

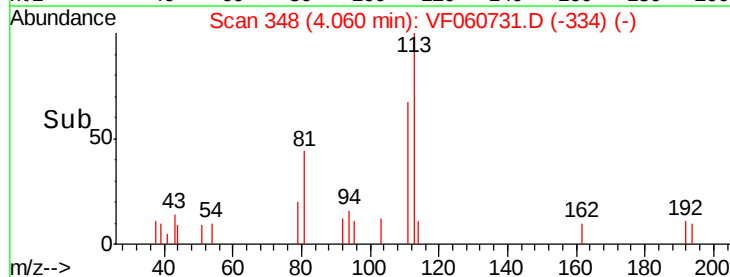
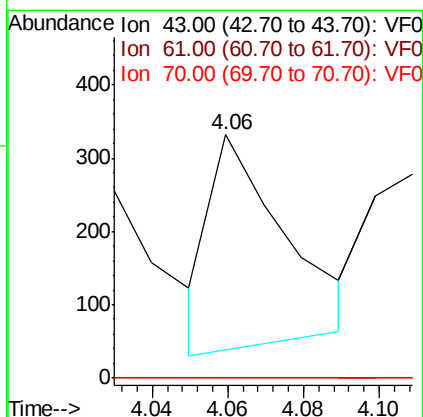
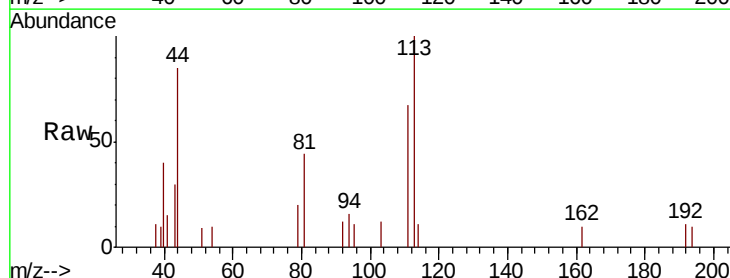
Instrument :
 MSVOA_F
 ClientSampleId :
 TP-1S1RE

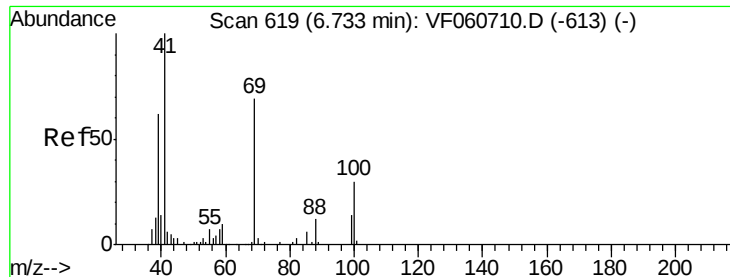
Tgt Ion: 113 Resp: 5832
 Ion Ratio Lower Upper
 113 100
 111 109.8 87.1 130.7
 192 16.0 13.8 20.6



#37
 Ethyl Acetate
 Concen: 2.912 ug/l
 RT: 4.06 min Scan# 348
 Delta R.T. -0.06 min
 Lab File: VF060731.D
 Acq: 14 Nov 2018 18:27

Tgt Ion: 43 Resp: 403
 Ion Ratio Lower Upper
 43 100
 61 0.0 98.5 147.7#
 70 0.0 7.4 11.0#

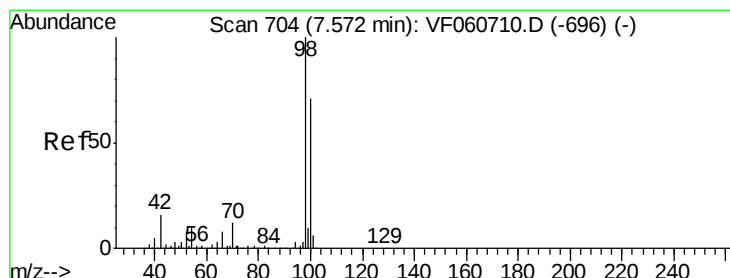
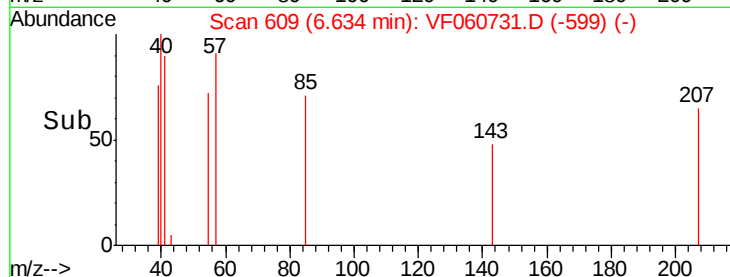
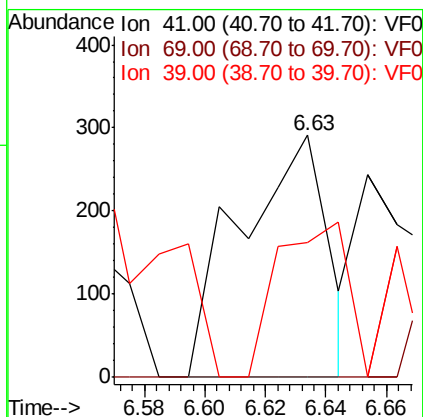
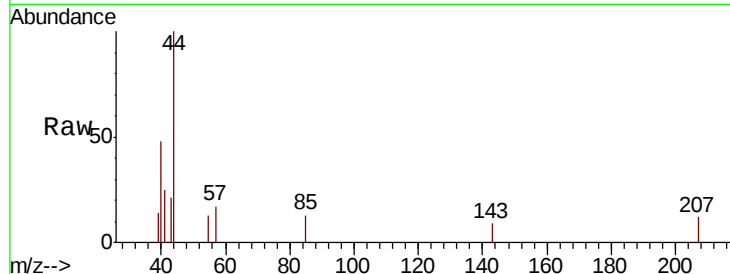




#48
Methyl methacrylate
Concen: 4.850 ug/l
RT: 6.63 min Scan# 609
Delta R.T. -0.10 min
Lab File: VF060731.D
Acq: 14 Nov 2018 18:27

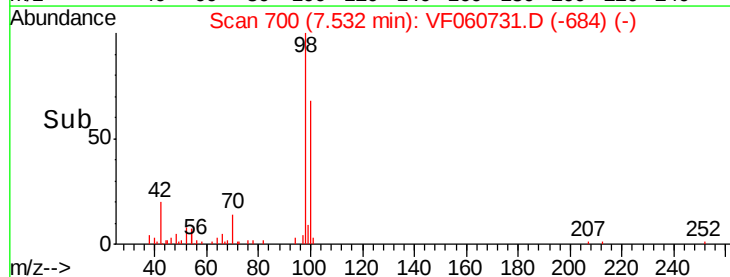
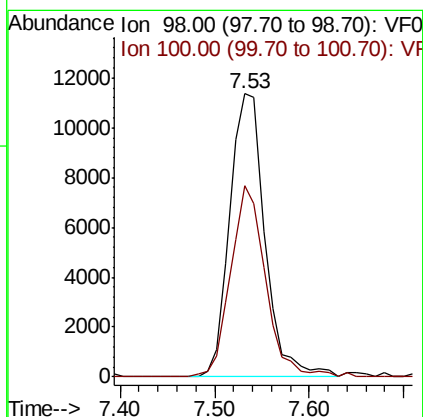
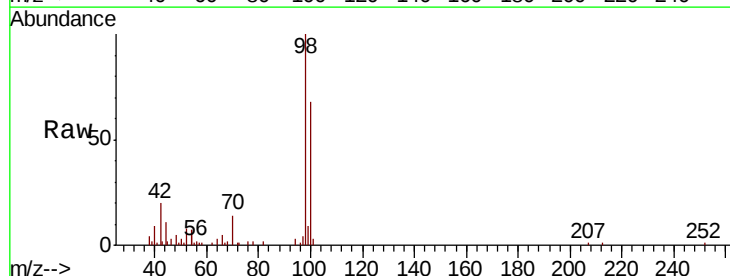
Instrument :
MSVOA_F
ClientSampleId :
TP-1S1RE

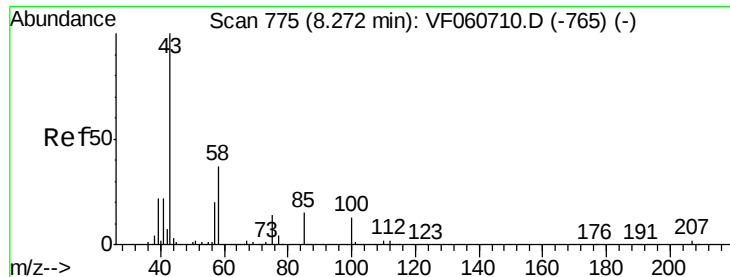
Tgt Ion: 41 Resp: 589
Ion Ratio Lower Upper
41 100
69 0.0 54.9 82.3#
39 55.7 49.6 74.4



#50
Toluene-d8
Concen: 47.022 ug/l
RT: 7.53 min Scan# 700
Delta R.T. -0.04 min
Lab File: VF060731.D
Acq: 14 Nov 2018 18:27

Tgt Ion: 98 Resp: 29250
Ion Ratio Lower Upper
98 100
100 67.5 56.5 84.7

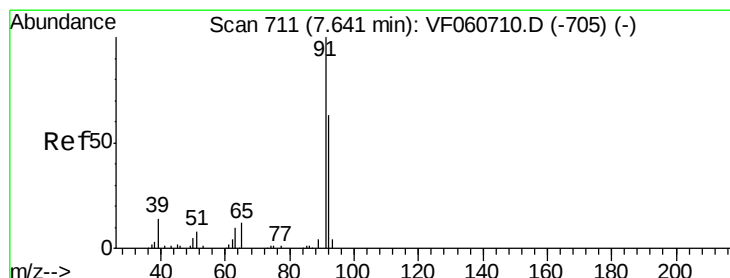
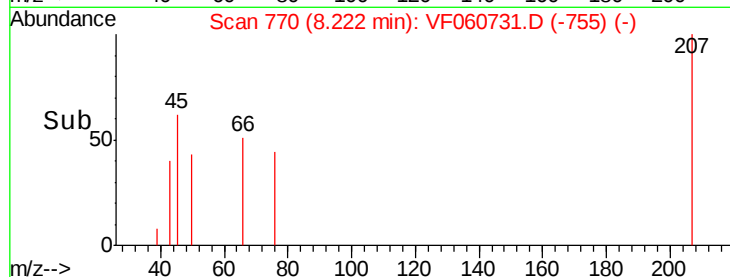
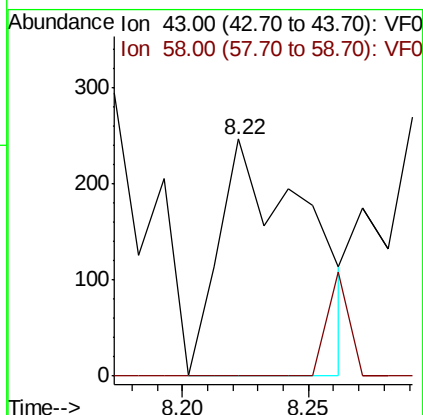
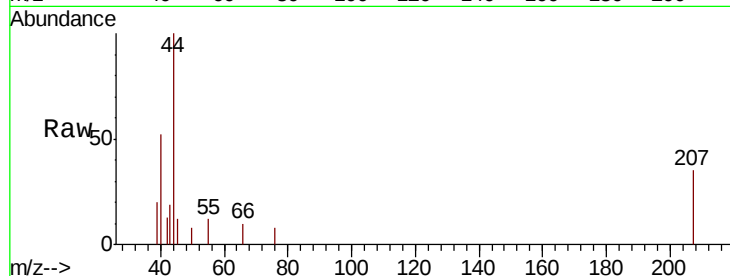




#51
 4-Methyl-2-Pentanone
 Concen: 4.461 ug/l
 RT: 8.22 min Scan# 770
 Delta R.T. -0.05 min
 Lab File: VF060731.D
 Acq: 14 Nov 2018 18:27

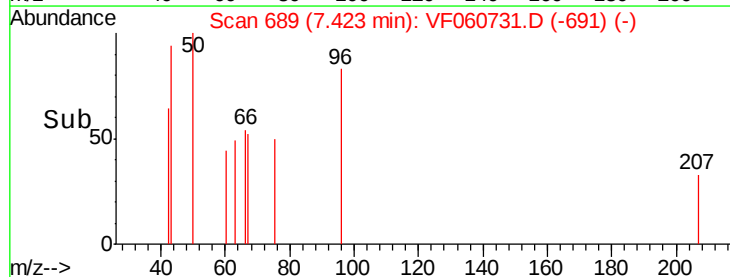
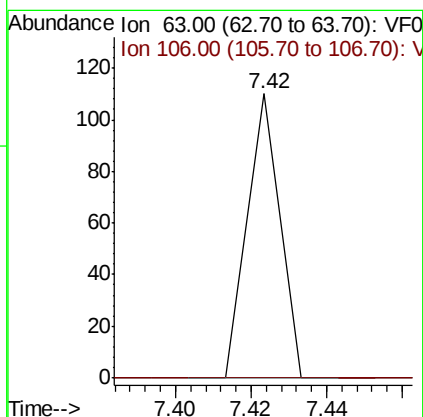
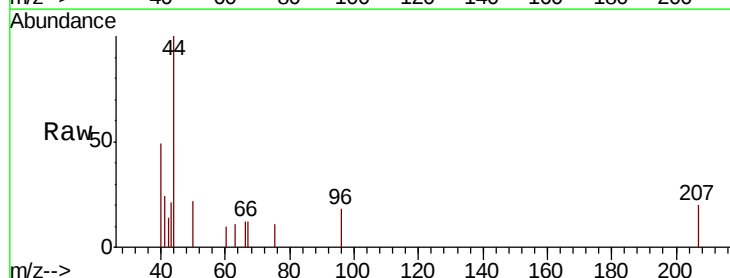
Instrument :
 MSVOA_F
 ClientSampleId :
 TP-1S1RE

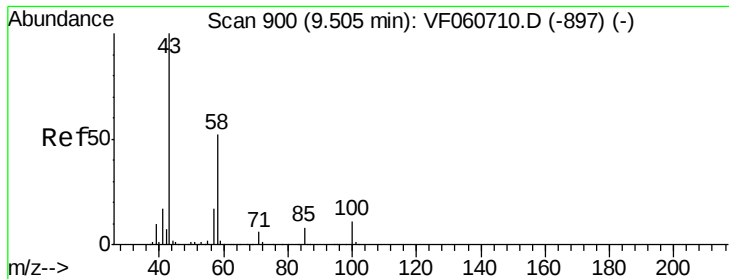
Tgt Ion: 43 Resp: 592
 Ion Ratio Lower Upper
 43 100
 58 0.0 29.2 43.8#



#58
 2-Chloroethyl Vinyl ether
 Concen: 3.943 ug/l
 RT: 7.42 min Scan# 689
 Delta R.T. -0.22 min
 Lab File: VF060731.D
 Acq: 14 Nov 2018 18:27

Tgt Ion: 63 Resp: 65
 Ion Ratio Lower Upper
 63 100
 106 0.0 0.0 0.0





#59

2-Hexanone

Concen: 5.254 ug/l

RT: 9.42 min Scan# 891

Delta R.T. -0.09 min

Lab File: VF060731.D

Acq: 14 Nov 2018 18:27

Instrument :

MSVOA_F

ClientSampleId :

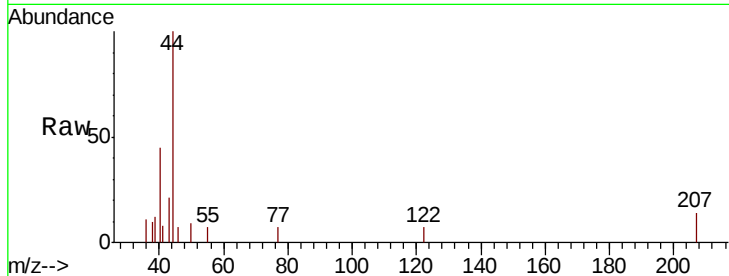
TP-1S1RE

Tgt Ion: 43 Resp: 490

Ion Ratio Lower Upper

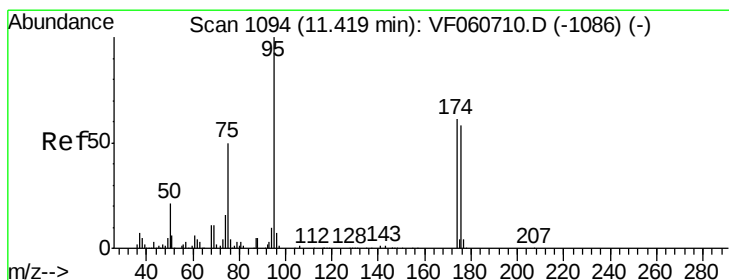
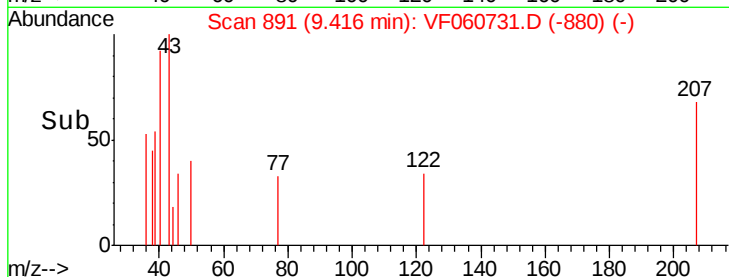
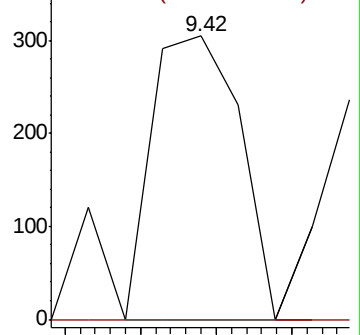
43 100

58 0.0 24.9 74.7#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#62

4-Bromofluorobenzene

Concen: 20.424 ug/l

RT: 11.40 min Scan# 1092

Delta R.T. -0.02 min

Lab File: VF060731.D

Acq: 14 Nov 2018 18:27

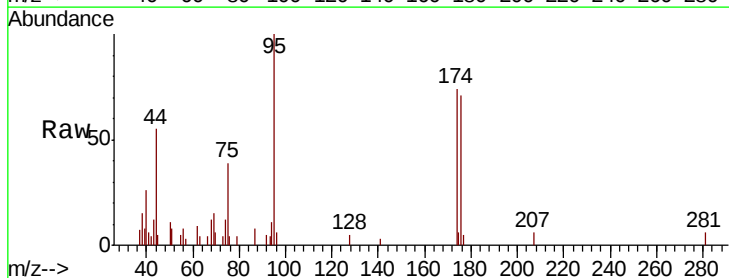
Tgt Ion: 95 Resp: 6515

Ion Ratio Lower Upper

95 100

174 73.9 0.0 121.6

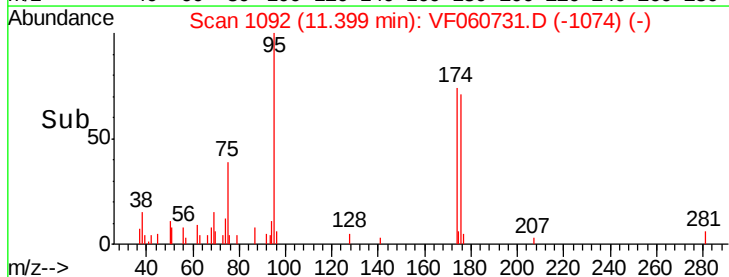
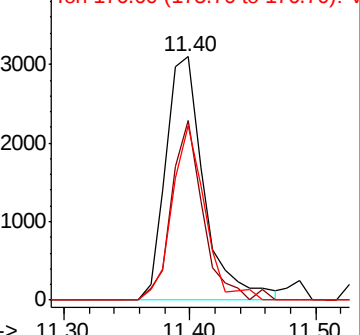
176 71.4 0.0 115.2

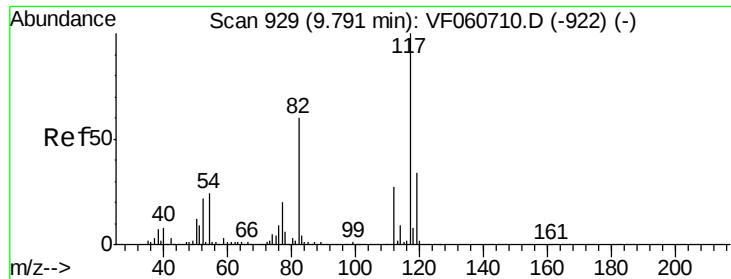


Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V

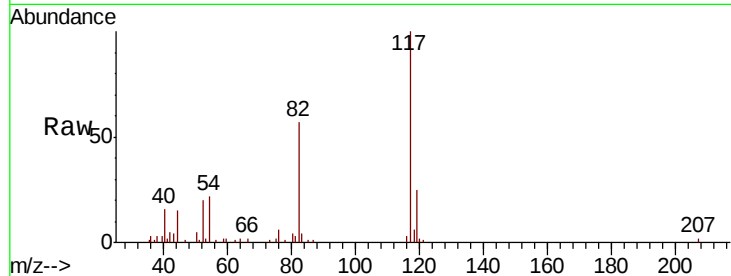




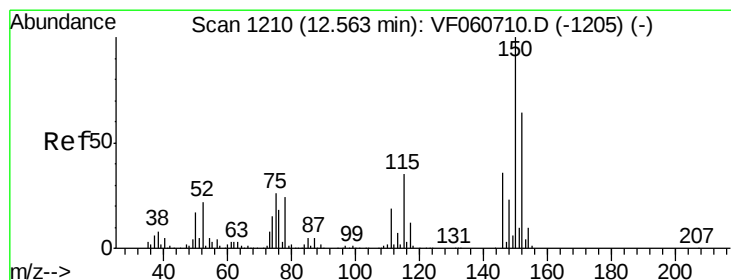
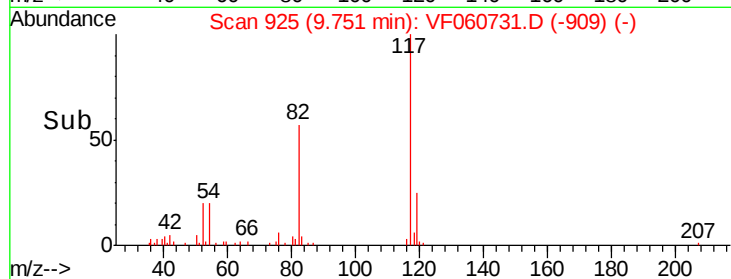
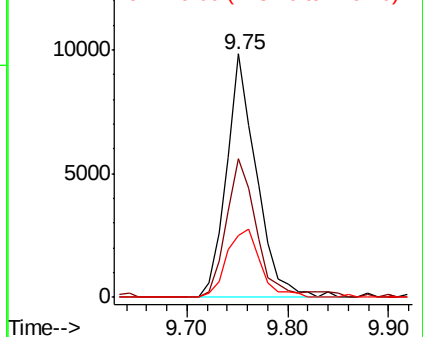
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.75 min Scan# 925
Delta R.T. -0.04 min
Lab File: VF060731.D
Acq: 14 Nov 2018 18:27

Instrument :
MSVOA_F
ClientSampled :
TP-1S1RE

Tgt Ion:117 Resp: 20319
Ion Ratio Lower Upper
117 100
82 56.9 47.9 71.9
119 25.3 26.8 40.2#

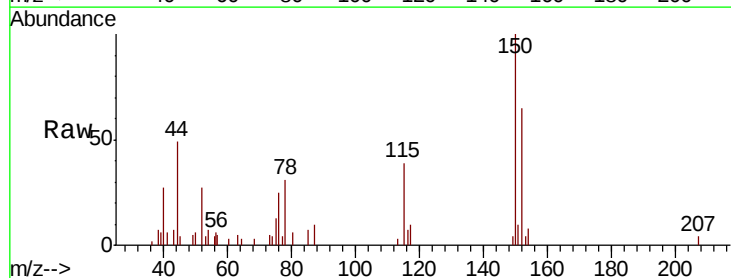


Abundance Ion 117.00 (116.70 to 117.70): V
Ion 82.00 (81.70 to 82.70): VF0
Ion 119.00 (118.70 to 119.70): V

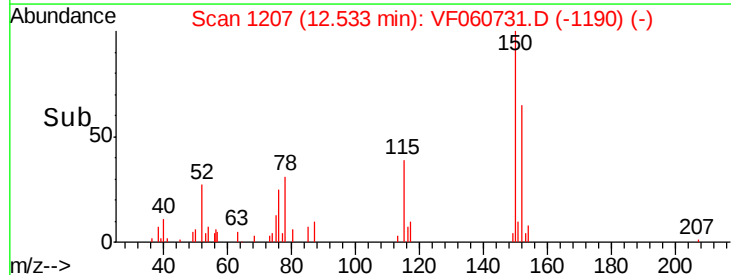
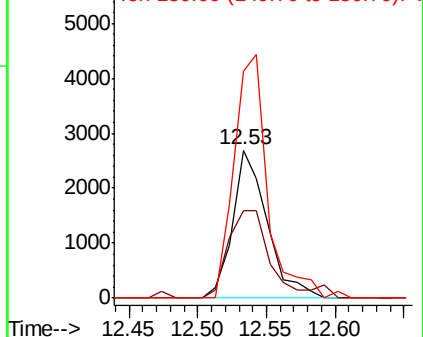


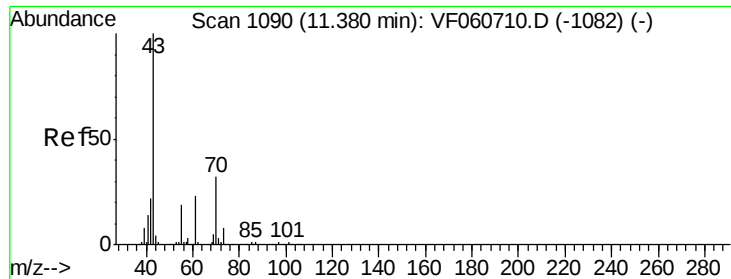
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.53 min Scan# 1207
Delta R.T. -0.03 min
Lab File: VF060731.D
Acq: 14 Nov 2018 18:27

Tgt Ion:152 Resp: 4688
Ion Ratio Lower Upper
152 100
115 59.2 27.9 83.7
150 153.3 0.0 316.4



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-ethyl acetate

Concen: 3.748 ug/l

RT: 11.37 min Scan# 1089

Delta R.T. -0.01 min

Lab File: VF060731.D

Acq: 14 Nov 2018 18:27

Instrument :

MSVOA_F

ClientSampleId :

TP-1S1RE

Tgt Ion: 43 Resp: 322

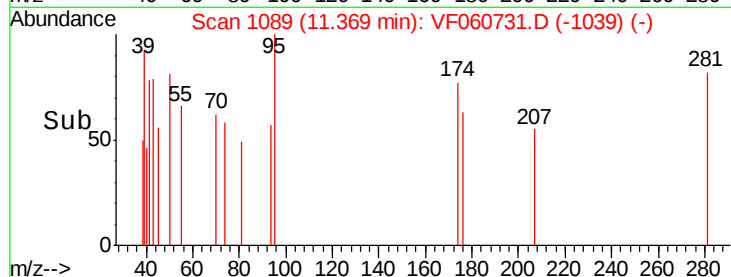
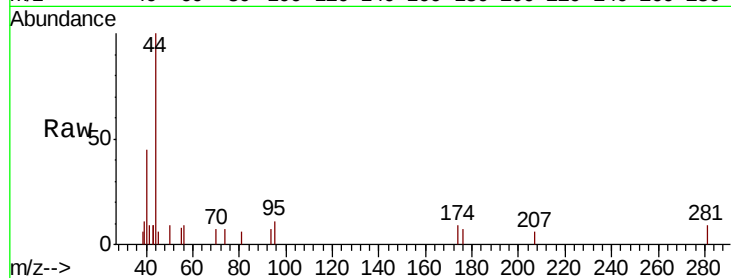
Ion Ratio Lower Upper

43 100

70 39.2 25.5 38.3#

55 41.7 14.9 22.3#

61 0.0 18.6 27.8#

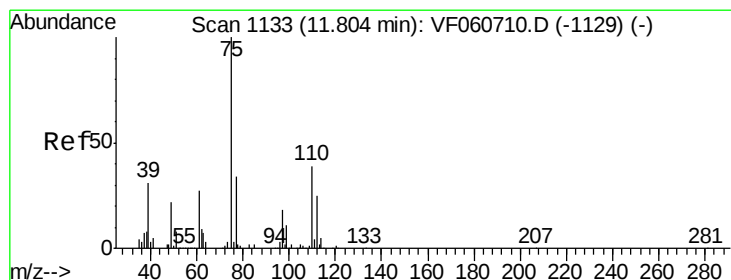
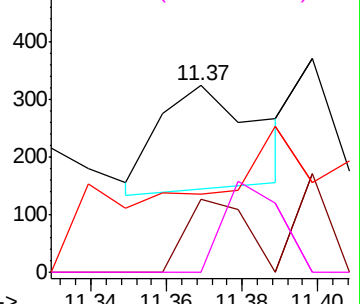


Abundance Ion 43.00 (42.70 to 43.70): VF0

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



#76

1,2,3-Trichloropropane

Concen: 1.554 ug/l

RT: 11.95 min Scan# 1148

Delta R.T. 0.15 min

Lab File: VF060731.D

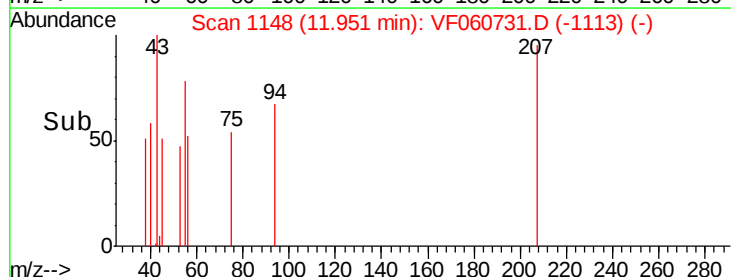
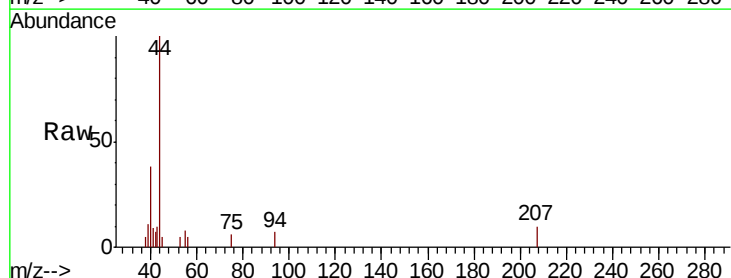
Acq: 14 Nov 2018 18:27

Tgt Ion: 75 Resp: 72

Ion Ratio Lower Upper

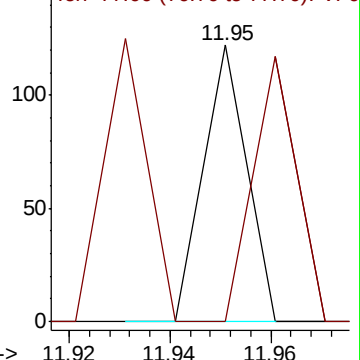
75 100

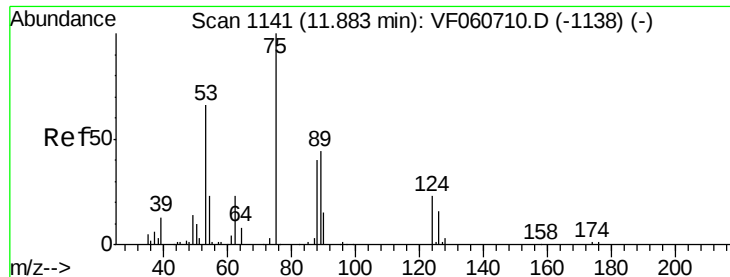
77 0.0 17.0 51.0#



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0





#81

trans-1,4-Dichloro-2-butene

Concen: 3.163 ug/l

RT: 11.95 min Scan# 1148

Delta R.T. 0.07 min

Lab File: VF060731.D

Acq: 14 Nov 2018 18:27

Instrument :

MSVOA_F

ClientSampleId :

TP-1S1RE

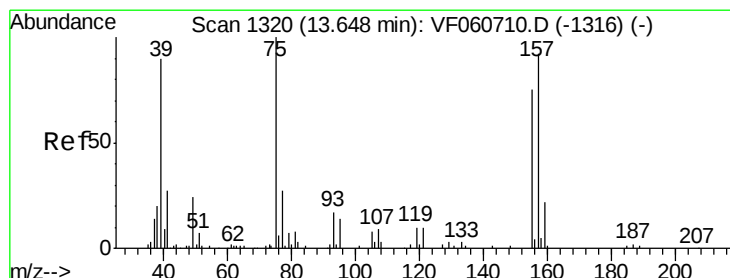
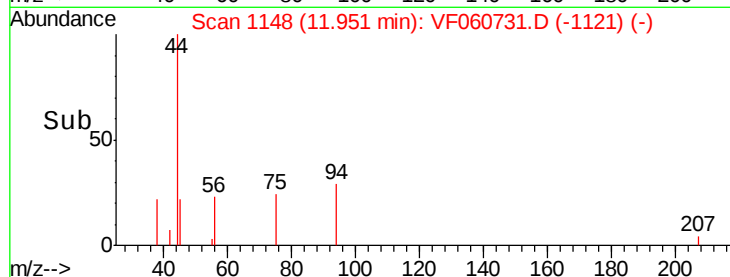
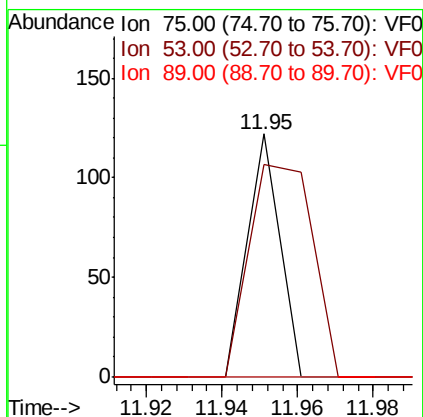
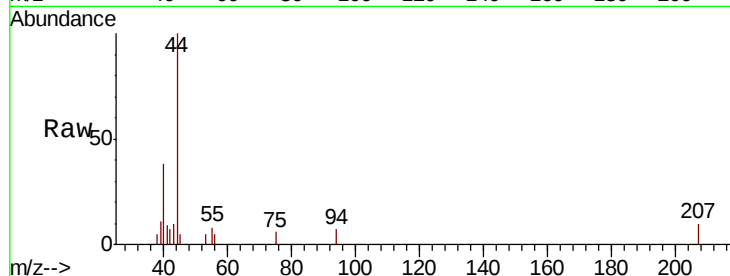
Tgt Ion: 75 Resp: 72

Ion Ratio Lower Upper

75 100

53 87.7 57.0 85.4#

89 0.0 37.8 56.8#



#92

1,2-Dibromo-3-Chloropropane

Concen: 6.396 ug/l

RT: 13.65 min Scan# 1320

Delta R.T. -0.00 min

Lab File: VF060731.D

Acq: 14 Nov 2018 18:27

Tgt Ion: 75 Resp: 75

Ion Ratio Lower Upper

75 100

155 0.0 37.4 112.2#

157 0.0 46.0 138.0#

