

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF110518\
 Data File : VF060602.D
 Acq On : 6 Nov 2018 8:37
 Operator : VA/AP
 Sample : J5794-07
 Misc : 5.09/5mL/MSVOA-F/SOIL
 ALS Vial : 44 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 TP-11-S

Quant Time: Nov 06 08:26:50 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	18455	50.00	ug/l	0.01
34) 1,4-Difluorobenzene	5.61	114	18294	50.00	ug/l	0.01
63) Chlorobenzene-d5	9.79	117	7324	50.00	ug/l	0.01
72) 1,4-Dichlorobenzene-d4	12.55	152	1150	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.86	65	2161	11.59	ug/l	0.01
Spiked Amount			Recovery	=	23.18%	
35) Dibromofluoromethane	4.13	113	3545	25.08	ug/l	0.02
Spiked Amount			Recovery	=	50.16%	
50) Toluene-d8	7.56	98	13921	33.25	ug/l	0.00
Spiked Amount			Recovery	=	66.50%	
62) 4-Bromofluorobenzene	11.42	95	2310	12.61	ug/l	0.00
Spiked Amount			Recovery	=	25.22%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	0.96	85	209	Below Cal	#	41
3) Chloromethane	1.11	50	843	5.219	ug/l #	45
5) Bromomethane	1.32	94	210	2.514	ug/l #	1
6) Chloroethane	1.37	64	131	Below Cal	#	40
8) Diethyl Ether	1.62	74	82	1.588	ug/l #	10
11) Tert butyl alcohol	2.50	59	76	1.034	ug/l #	1
12) 1,1-Dichloroethene	1.76	96	254	1.895	ug/l #	1
13) Acrolein	2.09	56	200	Below Cal		96
14) Allyl chloride	2.11	41	426	1.946	ug/l #	9
15) Acrylonitrile	2.96	53	75	3.375	ug/l #	15
16) Acetone	2.23	43	1604	36.506	ug/l	97
18) Methyl Acetate	2.37	43	779	11.784	ug/l #	64
20) Methylene Chloride	2.26	84	147	Below Cal	#	3
23) Vinyl Acetate	3.17	43	351	1.260	ug/l #	74
25) 2-Butanone	4.32	43	428	Below Cal	#	56
26) 2,2-Dichloropropane	3.62	77	566	2.818	ug/l #	57
29) Tetrahydrofuran	4.08	42	285	Below Cal	#	60
37) Ethyl Acetate	4.12	43	2273	23.507	ug/l #	20
41) Methacrylonitrile	4.79	41	330	6.026	ug/l #	50
43) Isopropyl Acetate	6.95	43	328	2.682	ug/l #	45
45) 1,2-Dichloropropane	6.28	63	135	1.080	ug/l #	43
46) Dibromomethane	6.02	93	80	1.008	ug/l #	3
47) Bromodichloromethane	6.41	83	276	1.442	ug/l #	55
48) Methyl methacrylate	6.72	41	507	6.596	ug/l #	71
51) 4-Methyl-2-Pentanone	8.25	43	862	10.480	ug/l #	37
52) Toluene	7.64	92	449	1.410	ug/l	80
55) 1,1,2-Trichloroethane	8.54	97	220	2.374	ug/l #	48
56) Ethyl methacrylate	8.62	69	333	2.793	ug/l #	1
58) 2-Chloroethyl Vinyl ether	7.63	63	98	Below Cal		100
59) 2-Hexanone	9.52	43	629	Below Cal	#	46
66) 1,1,1,2-Tetrachloroethane	9.90	131	65	1.027	ug/l #	6
74) N-amyl acetate	11.39	43	1455	65.084	ug/l #	51
75) 1,1,1,2,2-Tetrachloroethane	11.72	83	198	12.095	ug/l #	24
76) 1,2,3-Trichloropropane	11.83	75	67	8.328	ug/l #	1

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

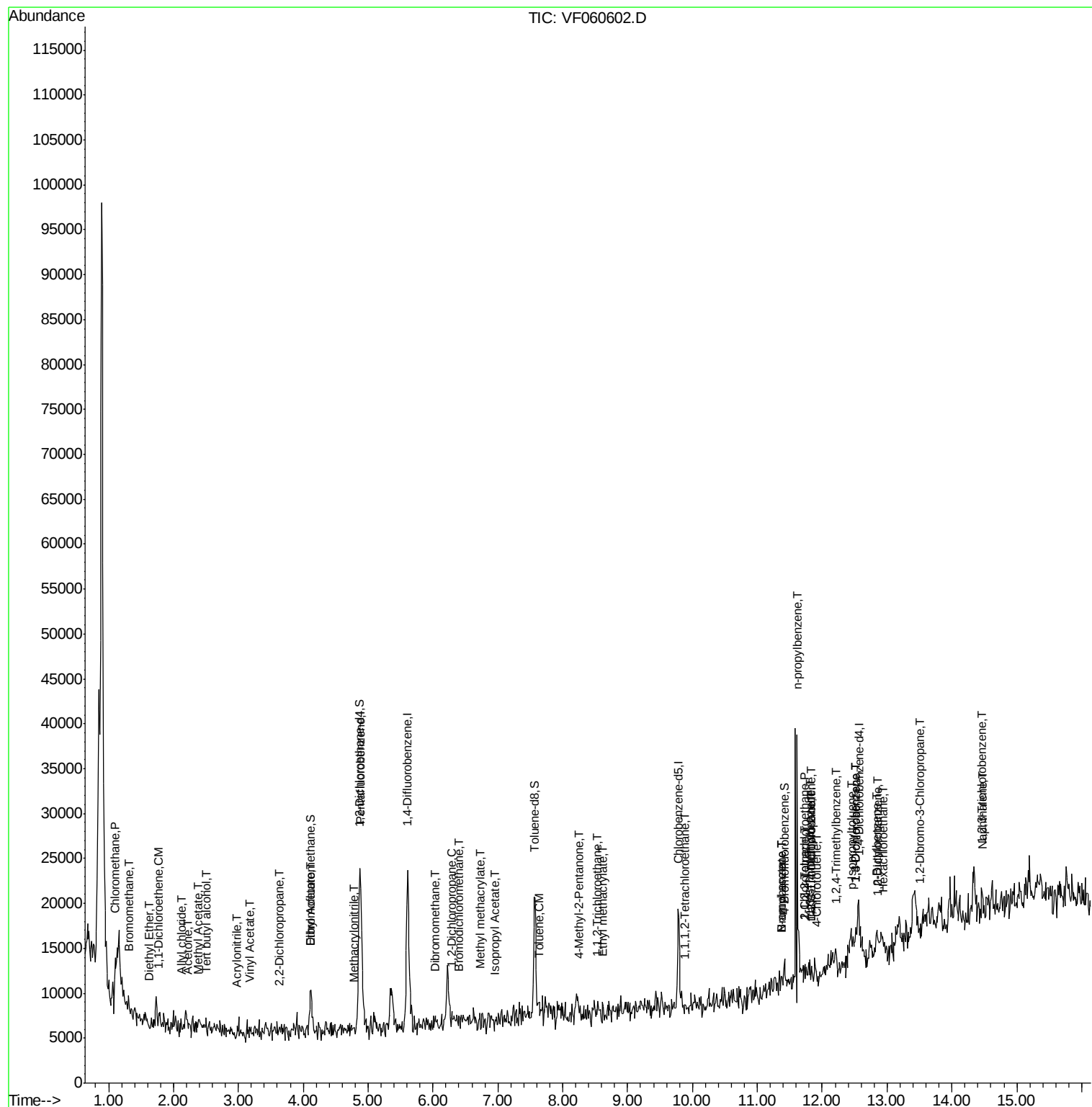
77) Bromobenzene	11.38	156	153	7.796	ug/l #	23
78) n-propylbenzene	11.63	91	788	7.510	ug/l #	55
79) 2-Chlorotoluene	11.74	91	626	10.446	ug/l #	42
80) 1,3,5-Trimethylbenzene	11.80	105	785	10.619	ug/l #	24
81) trans-1,4-Dichloro-2-buten	11.83	75	67	10.597	ug/l #	11
82) 4-Chlorotoluene	11.92	91	305	4.878	ug/l #	43
84) 1,2,4-Trimethylbenzene	12.20	105	564	7.791	ug/l #	27
86) p-Isopropyltoluene	12.46	119	310	3.623	ug/l #	1
87) 1,3-Dichlorobenzene	12.51	146	220	5.712	ug/l #	24
88) 1,4-Dichlorobenzene	12.51	146	220	6.022	ug/l #	23
89) n-Butylbenzene	12.85	91	842	8.487	ug/l #	54
90) Hexachloroethane	12.94	117	72	3.309	ug/l #	14
91) 1,2-Dichlorobenzene	12.87	146	81	2.248	ug/l #	23
92) 1,2-Dibromo-3-Chloropropan	13.50	75	64	22.503	ug/l	78
95) Naphthalene	14.48	128	663	13.531	ug/l #	1
96) 1,2,3-Trichlorobenzene	14.46	180	61	2.638	ug/l #	13

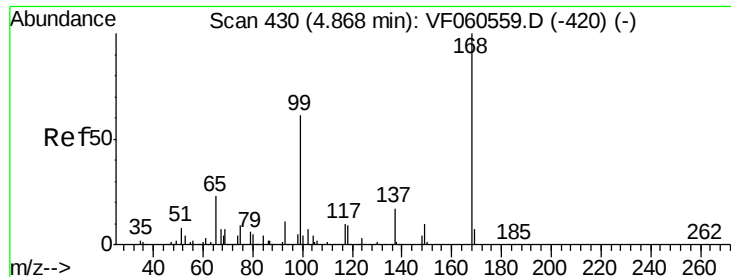
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VF060602.D

Acq: 6 Nov 2018 8:37

Instrument :

MSVOA_F

ClientSampleId :

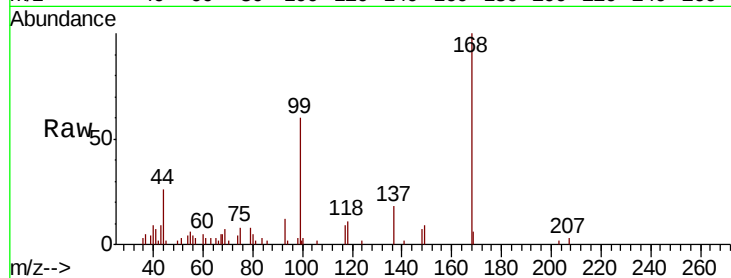
TP-11-S

Tot Ion:168 Resp: 18455

Ion Ratio Lower Upper

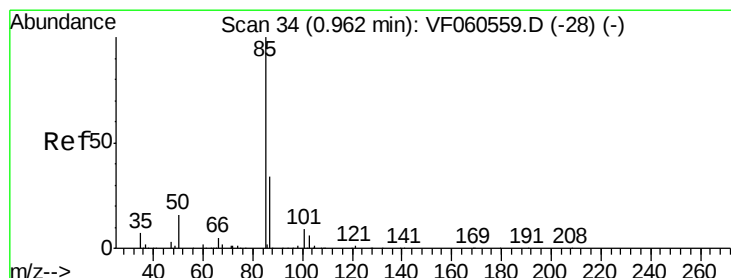
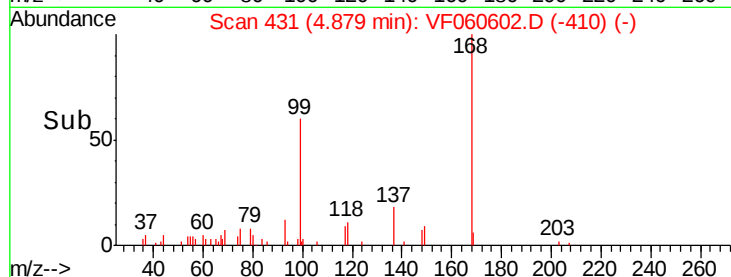
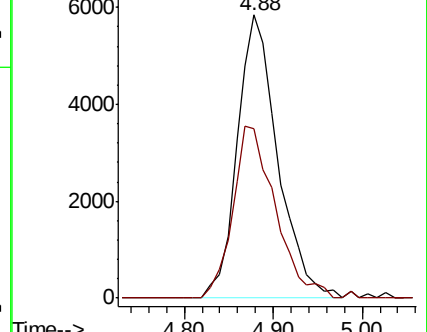
168 100

99 59.9 48.6 72.8



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 0.96 min Scan# 34

Delta R.T. 0.00 min

Lab File: VF060602.D

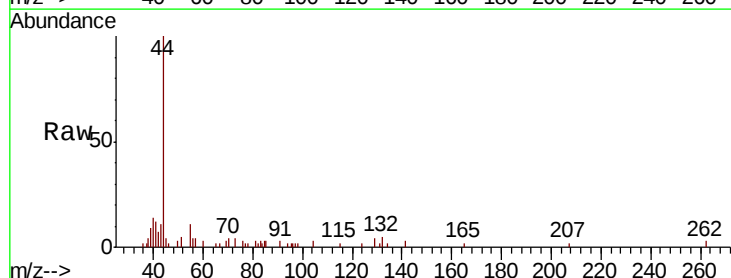
Acq: 6 Nov 2018 8:37

Tgt Ion: 85 Resp: 209

Ion Ratio Lower Upper

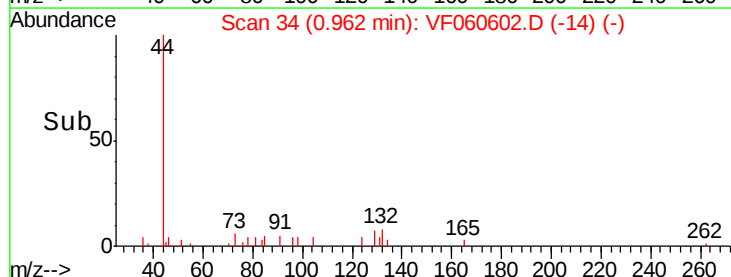
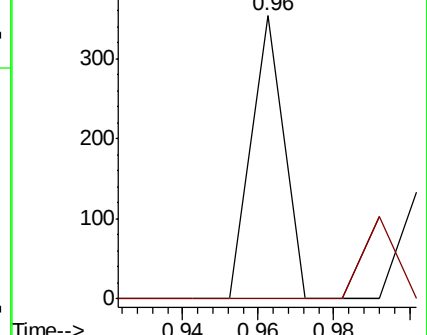
85 100

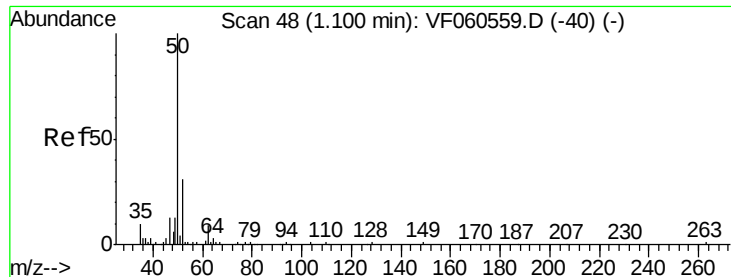
87 0.0 16.9 50.7#



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0





#3

Chloromethane

Concen: 5.219 ug/l

RT: 1.11 min Scan# 49

Delta R.T. 0.01 min

Lab File: VF060602.D

Acq: 6 Nov 2018 8:37

Instrument :

MSVOA_F

ClientSampled :

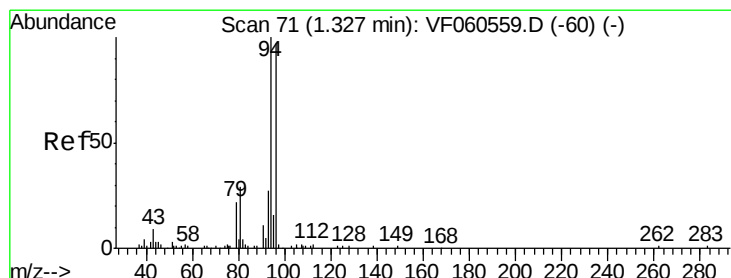
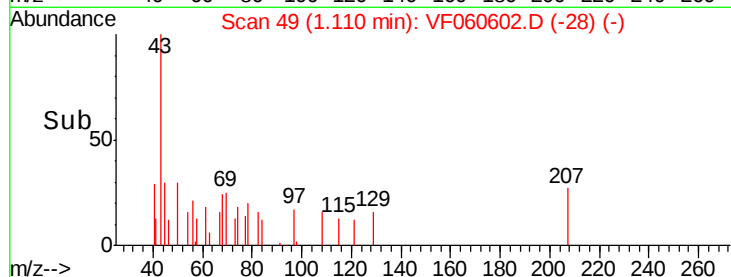
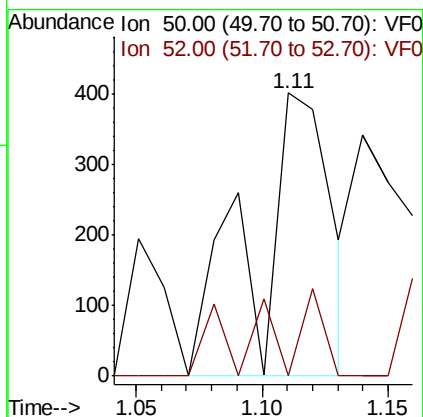
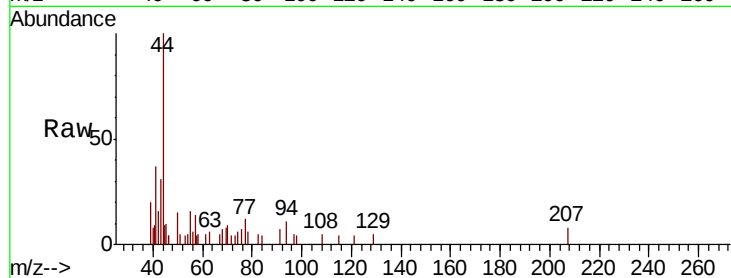
TP-11-S

Tot Ion: 50 Resp: 843

Ion Ratio Lower Upper

50 100

52 0.0 24.0 36.0#



#5

Bromomethane

Concen: 2.514 ug/l

RT: 1.32 min Scan# 70

Delta R.T. -0.01 min

Lab File: VF060602.D

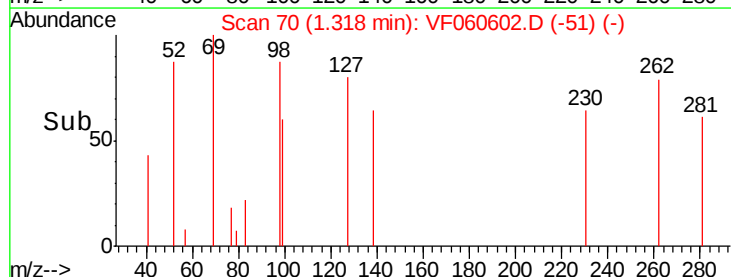
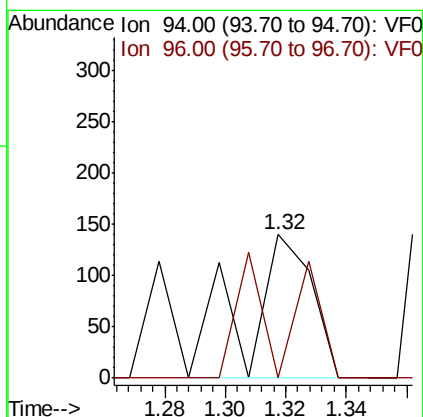
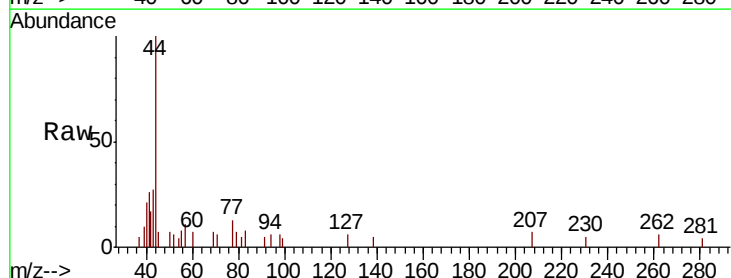
Acq: 6 Nov 2018 8:37

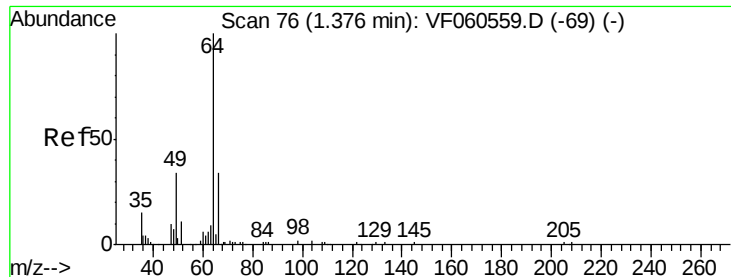
Tgt Ion: 94 Resp: 210

Ion Ratio Lower Upper

94 100

96 0.0 77.9 116.9#





#6

Chloroethane

Concen: Below Cal

RT: 1.37 min Scan# 75

Delta R.T. -0.01 min

Lab File: VF060602.D

Acq: 6 Nov 2018 8:37

Instrument :

MSVOA_F

ClientSampleId :

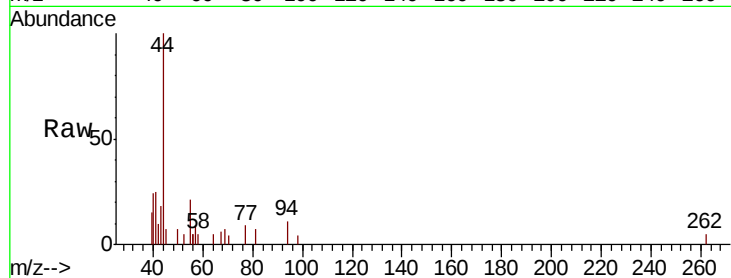
TP-11-S

Tot Ion: 64 Resp: 131

Ion Ratio Lower Upper

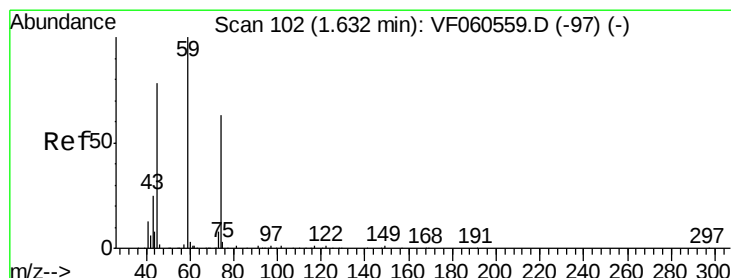
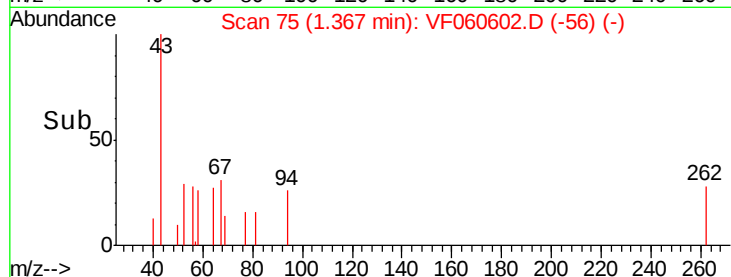
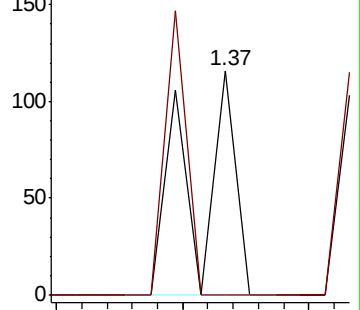
64 100

66 0.0 27.8 41.8#



Abundance Ion 64.00 (63.70 to 64.70): VF0

Ion 66.00 (65.70 to 66.70): VF0



#8

Diethyl Ether

Concen: 1.588 ug/l

RT: 1.62 min Scan# 101

Delta R.T. -0.01 min

Lab File: VF060602.D

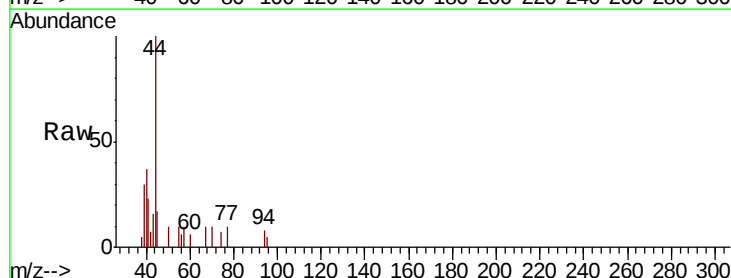
Acq: 6 Nov 2018 8:37

Tgt Ion: 74 Resp: 82

Ion Ratio Lower Upper

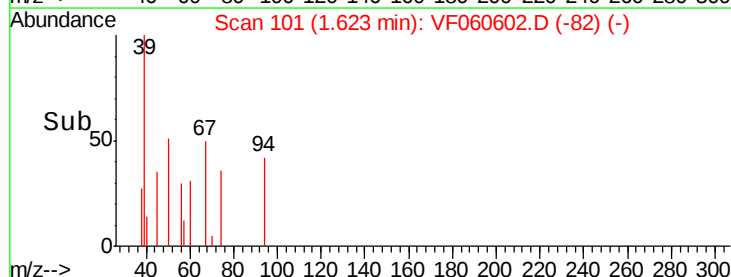
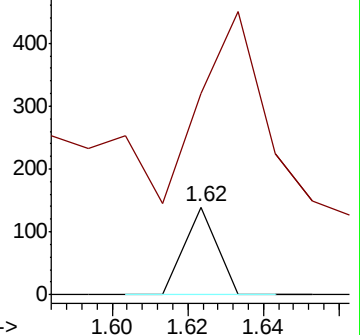
74 100

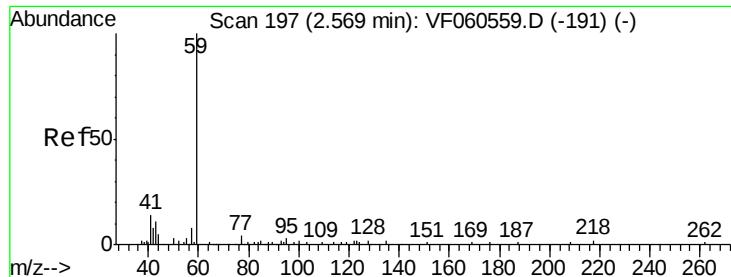
45 230.9 63.8 191.5#



Abundance Ion 74.00 (73.70 to 74.70): VF0

Ion 45.00 (44.70 to 45.70): VF0



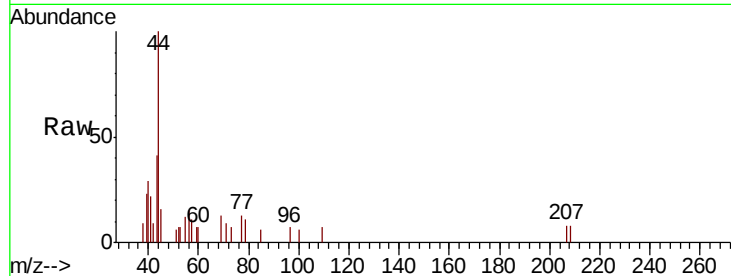


#11

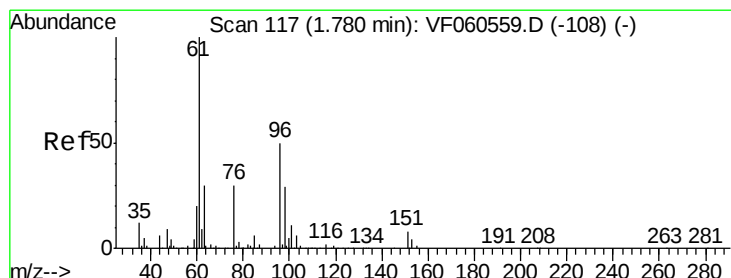
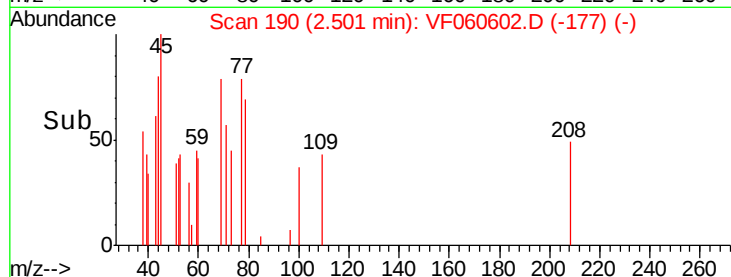
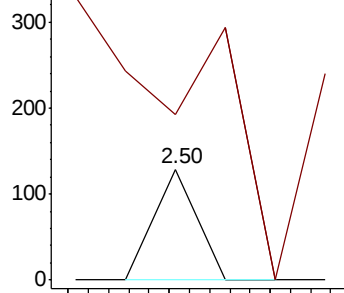
Tert butyl alcohol
Concen: 1.034 ug/l
RT: 2.50 min Scan# 190
Delta R.T. -0.07 min
Lab File: VF060602.D
Acq: 6 Nov 2018 8:37

Instrument :
MSVOA_F
ClientSampled :
TP-11-S

Tot Ion: 59 Resp: 76
Ion Ratio Lower Upper
59 100
57 148.8 19.0 28.4#



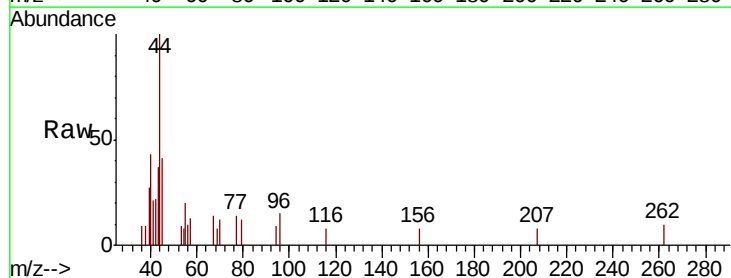
Abundance Ion 59.00 (58.70 to 59.70): VF0
Ion 57.00 (56.70 to 57.70): VF0



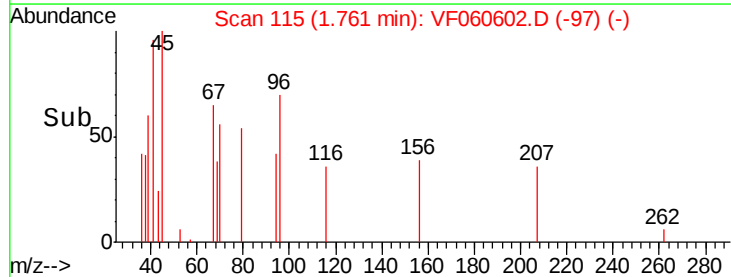
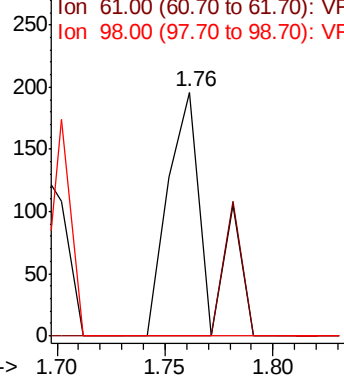
#12

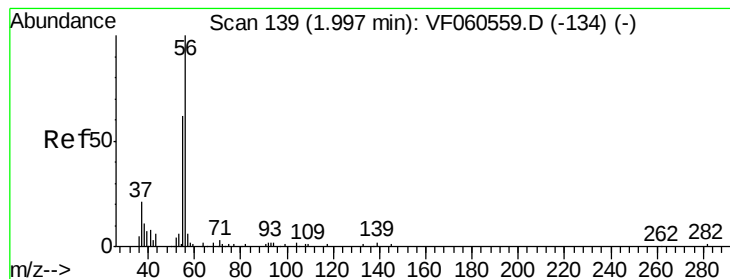
1,1-Dichloroethene
Concen: 1.895 ug/l
RT: 1.76 min Scan# 115
Delta R.T. -0.02 min
Lab File: VF060602.D
Acq: 6 Nov 2018 8:37

Tgt Ion: 96 Resp: 254
Ion Ratio Lower Upper
96 100
61 0.0 158.1 237.1#
98 0.0 47.0 70.6#



Abundance Ion 96.00 (95.70 to 96.70): VF0
Ion 61.00 (60.70 to 61.70): VF0
Ion 98.00 (97.70 to 98.70): VF0





#13

Acrolein

Concen: Below Cal

RT: 2.09 min Scan# 148

Delta R.T. 0.09 min

Lab File: VF060602.D

Acq: 6 Nov 2018 8:37

Instrument :

MSVOA_F

ClientSampleId :

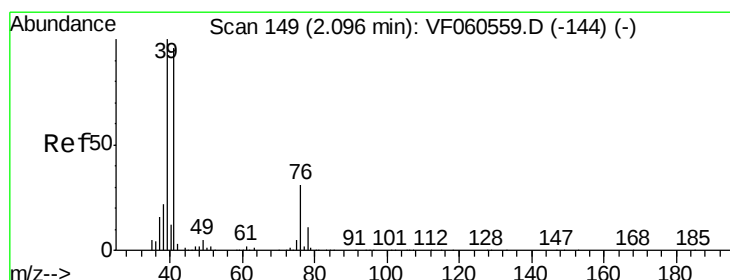
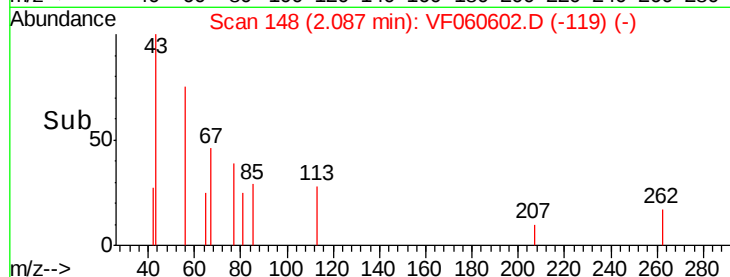
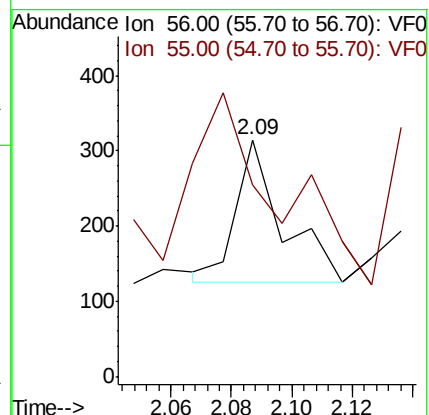
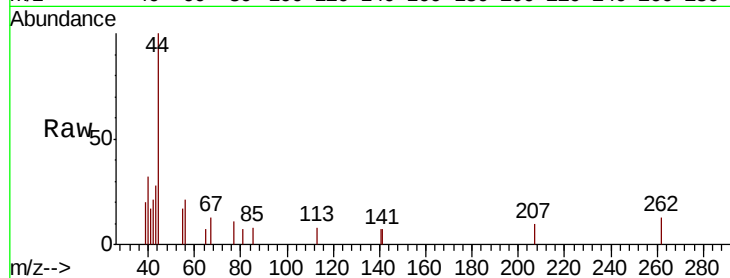
TP-11-S

Tot Ion: 56 Resp: 200

Ion Ratio Lower Upper

56 100

55 80.6 61.8 92.6



#14

Allyl chloride

Concen: 1.946 ug/l

RT: 2.11 min Scan# 150

Delta R.T. 0.01 min

Lab File: VF060602.D

Acq: 6 Nov 2018 8:37

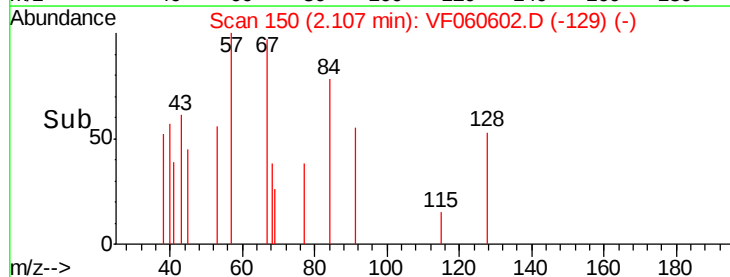
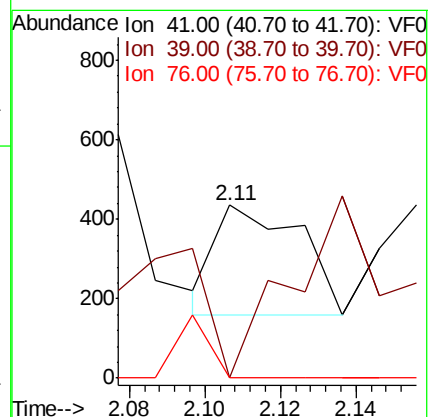
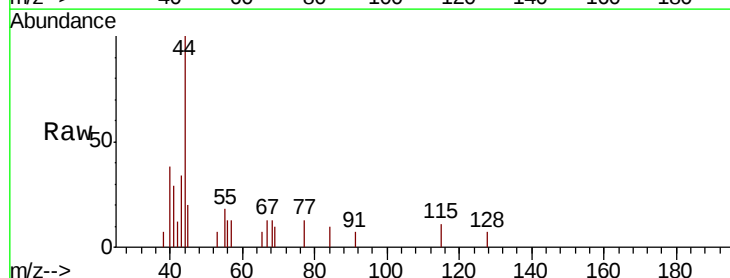
Tgt Ion: 41 Resp: 426

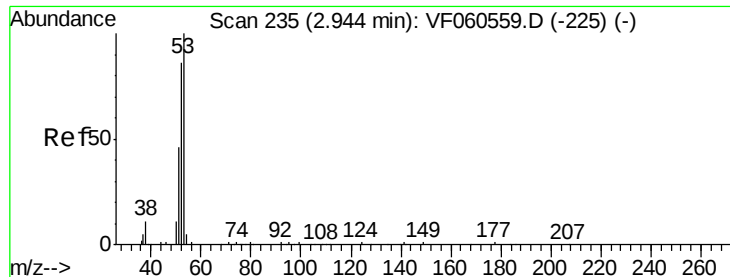
Ion Ratio Lower Upper

41 100

39 0.0 82.6 124.0#

76 0.0 26.7 40.1#





#15

Acrylonitrile

Concen: 3.375 ug/l

RT: 2.96 min Scan# 237

Delta R.T. 0.02 min

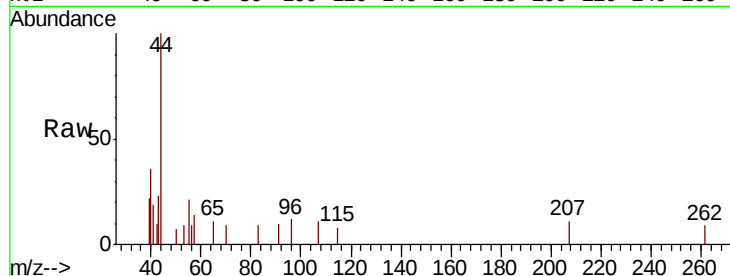
Lab File: VF060602.D

Acq: 6 Nov 2018 8:37

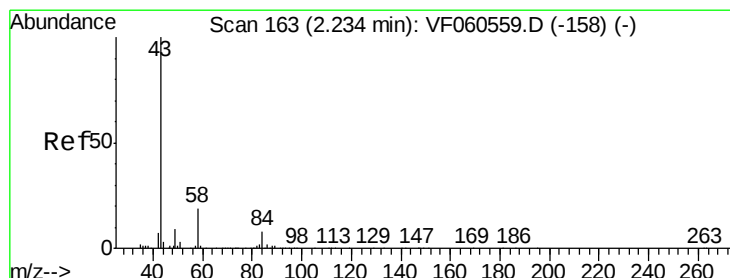
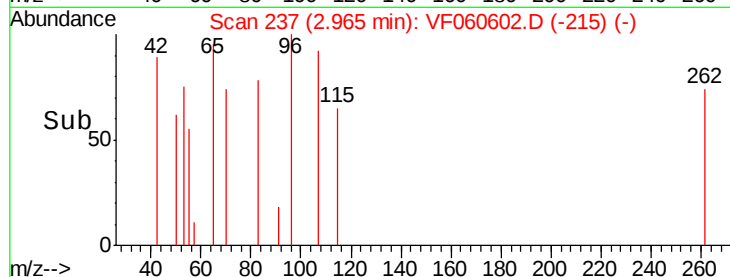
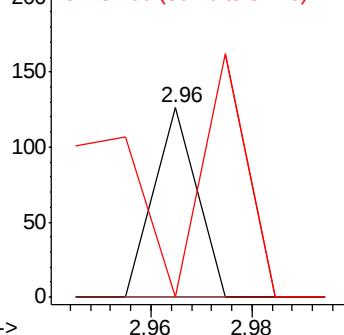
Instrument :
MSVOA_F
ClientSampleId :
TP-11-S

Tot Ion: 53 Resp: 75

Ion	Ratio	Lower	Upper
53	100		
52	0.0	68.5	102.7#
51	0.0	38.2	57.2#



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: 36.506 ug/l

RT: 2.23 min Scan# 162

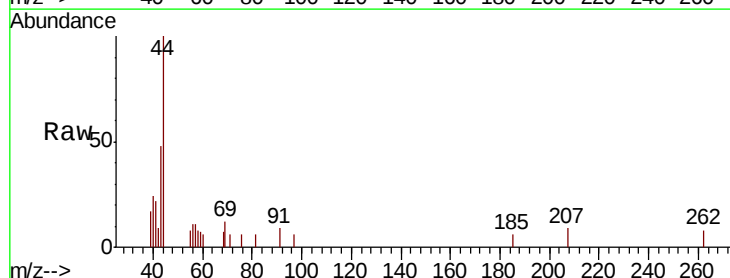
Delta R.T. -0.01 min

Lab File: VF060602.D

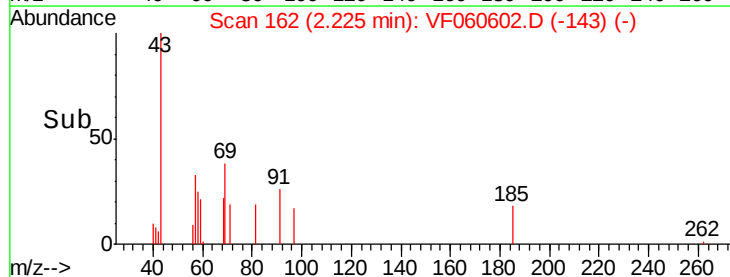
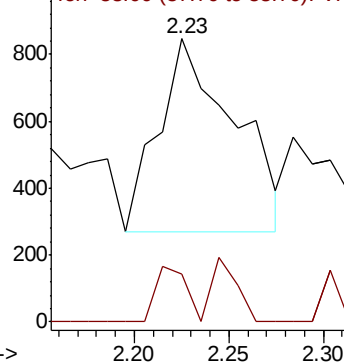
Acq: 6 Nov 2018 8:37

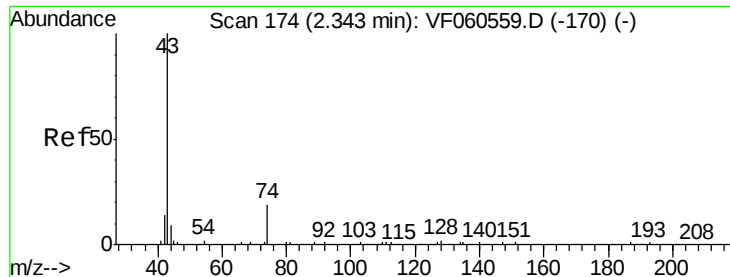
Tgt Ion: 43 Resp: 1604

Ion	Ratio	Lower	Upper
43	100		
58	17.0	14.6	22.0



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

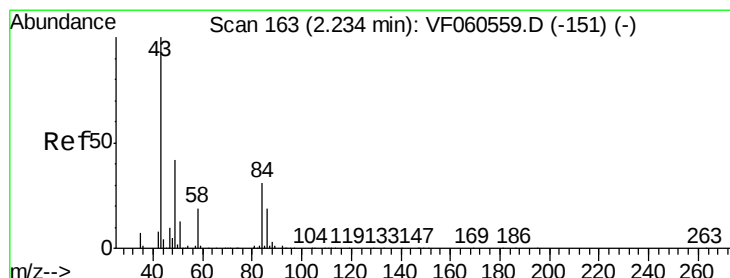
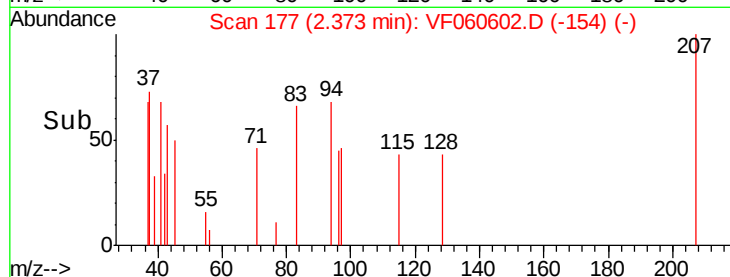
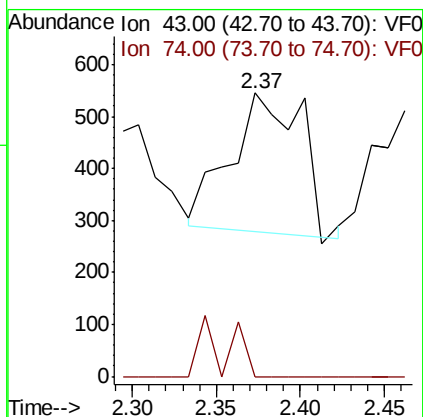
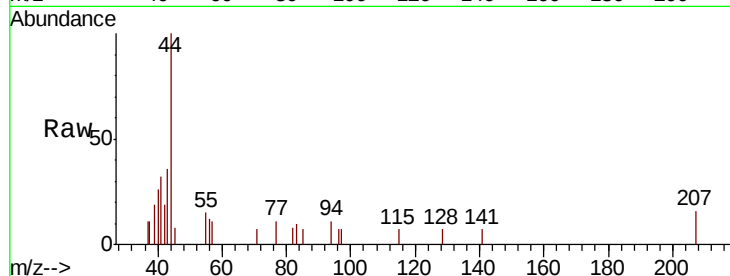




#18
Methyl Acetate
Concen: 11.784 ug/l
RT: 2.37 min Scan# 177
Delta R.T. 0.03 min
Lab File: VF060602.D
Acq: 6 Nov 2018 8:37

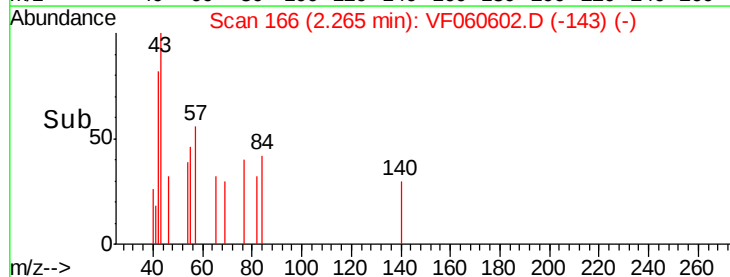
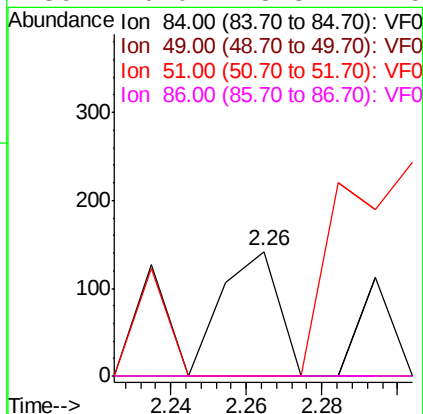
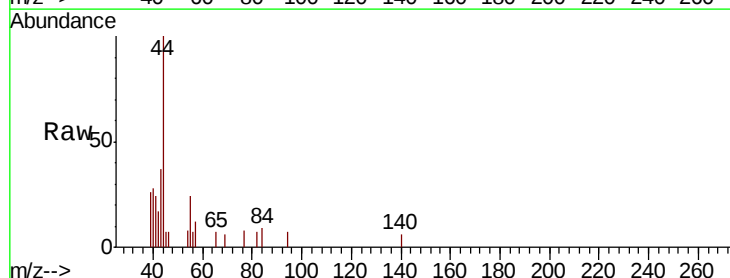
Instrument :
MSVOA_F
ClientSampled :
TP-11-S

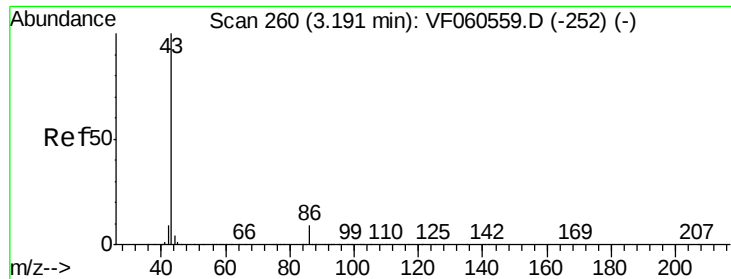
Tot Ion: 43 Resp: 779
Ion Ratio Lower Upper
43 100
74 0.0 12.1 18.1#



#20
Methylene Chloride
Concen: Below Cal
RT: 2.26 min Scan# 166
Delta R.T. 0.03 min
Lab File: VF060602.D
Acq: 6 Nov 2018 8:37

Tgt Ion: 84 Resp: 147
Ion Ratio Lower Upper
84 100
49 0.0 109.9 164.9#
51 0.0 35.8 53.8#
86 0.0 48.3 72.5#





#23

Vinyl Acetate

Concen: 1.260 ug/l

RT: 3.17 min Scan# 258

Delta R.T. -0.02 min

Lab File: VF060602.D

Acq: 6 Nov 2018 8:37

Instrument :

MSVOA_F

ClientSampleId :

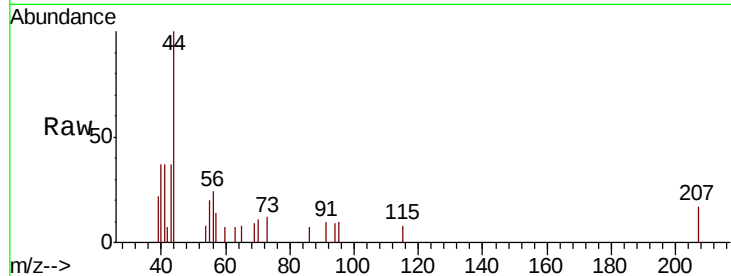
TP-11-S

Tot Ion: 43 Resp: 351

Ion Ratio Lower Upper

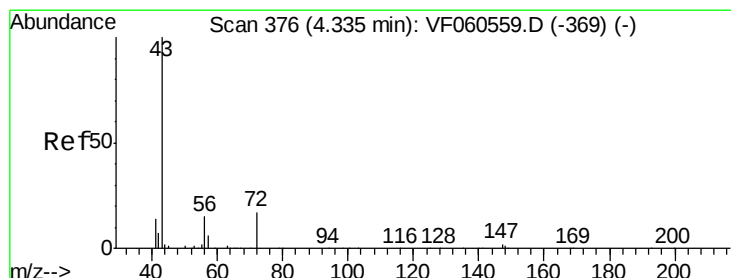
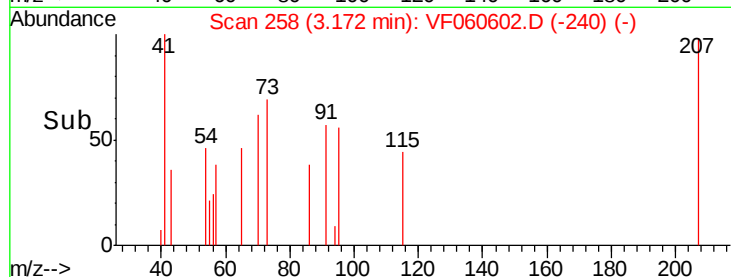
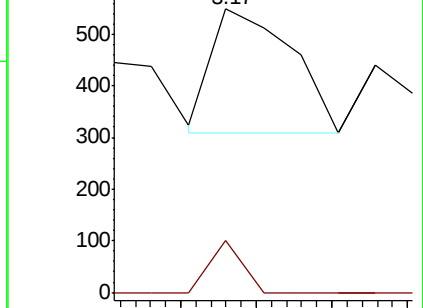
43 100

86 18.4 7.1 10.7#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 86.00 (85.70 to 86.70): VF0



#25

2-Butanone

Concen: Below Cal

RT: 4.32 min Scan# 374

Delta R.T. -0.02 min

Lab File: VF060602.D

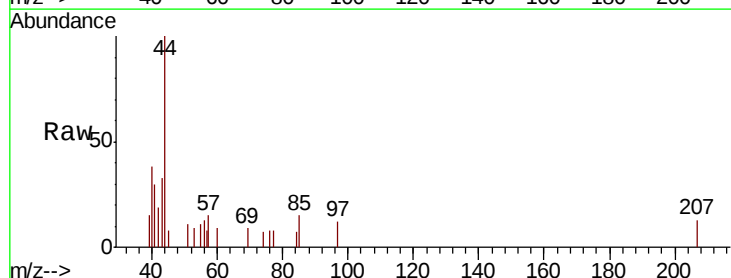
Acq: 6 Nov 2018 8:37

Tgt Ion: 43 Resp: 428

Ion Ratio Lower Upper

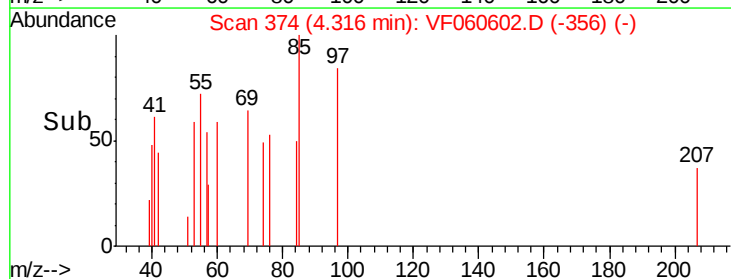
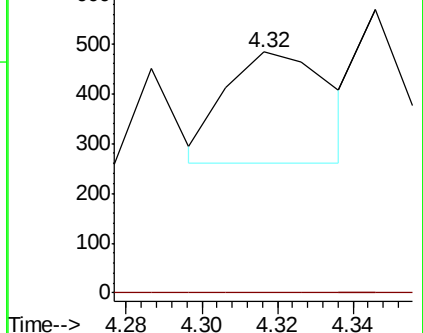
43 100

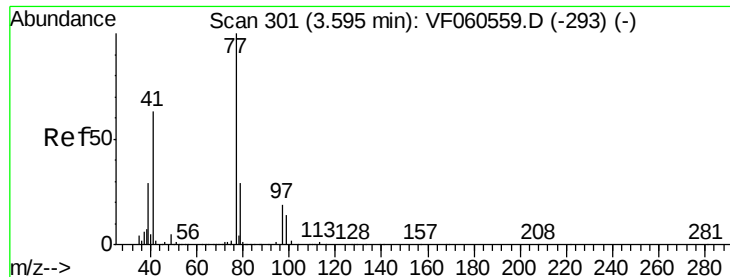
72 0.0 16.2 24.2#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 72.00 (71.70 to 72.70): VF0





#26

2,2-Dichloropropane

Concen: 2.818 ug/l

RT: 3.62 min Scan# 303

Delta R.T. 0.02 min

Lab File: VF060602.D

Acq: 6 Nov 2018 8:37

Instrument :

MSVOA_F

ClientSampleId :

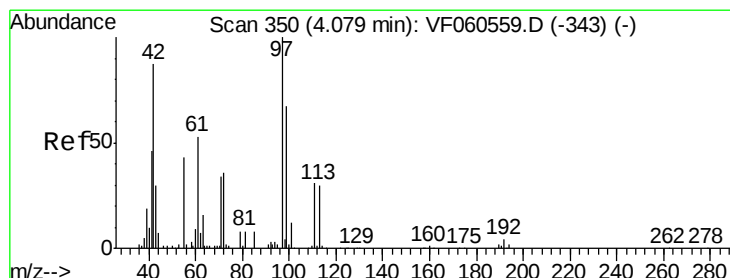
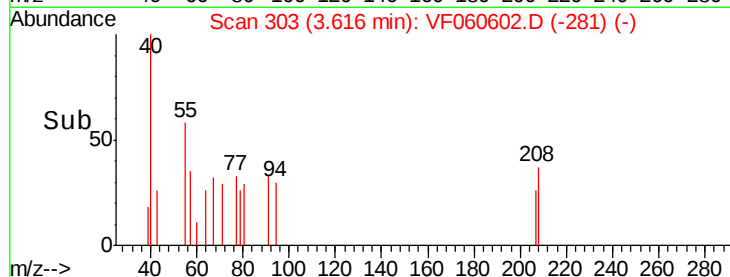
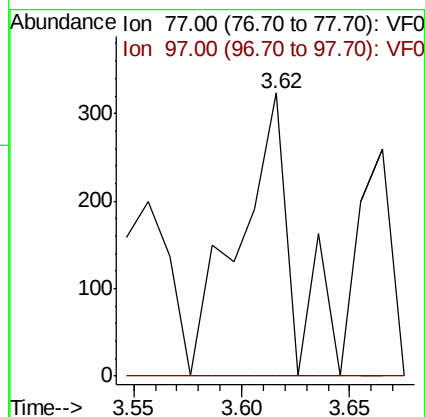
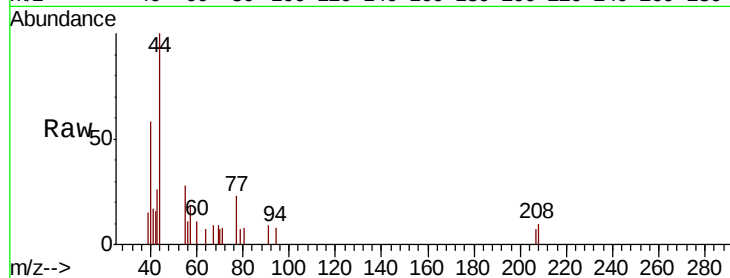
TP-11-S

Tot Ion: 77 Resp: 566

Ion Ratio Lower Upper

77 100

97 0.0 9.8 29.3#



#29

Tetrahydrofuran

Concen: Below Cal

RT: 4.08 min Scan# 350

Delta R.T. 0.00 min

Lab File: VF060602.D

Acq: 6 Nov 2018 8:37

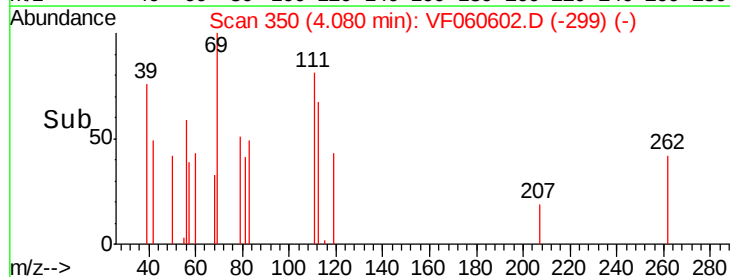
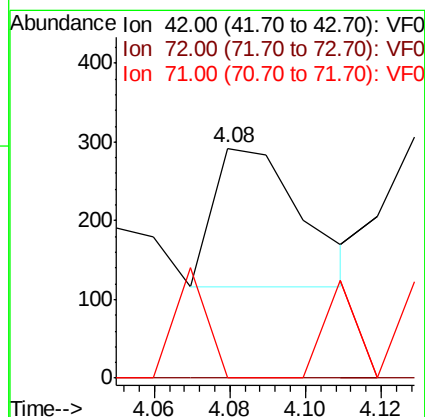
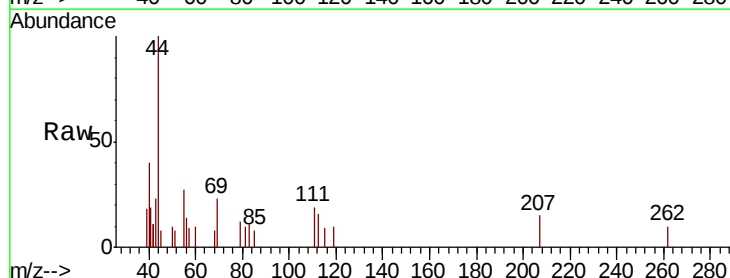
Tgt Ion: 42 Resp: 285

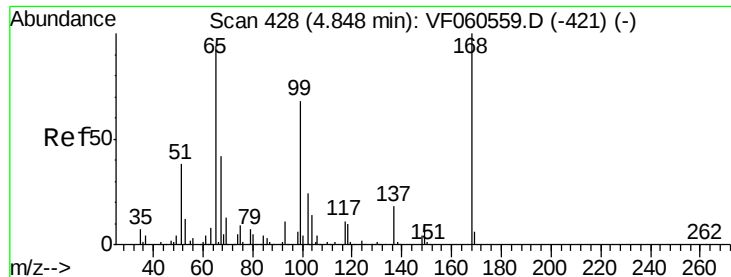
Ion Ratio Lower Upper

42 100

72 0.0 31.4 47.0#

71 29.1 31.8 47.6#

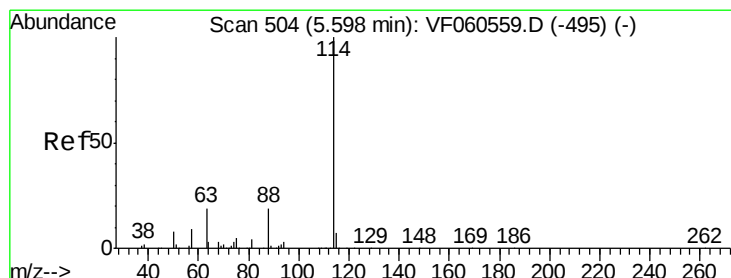
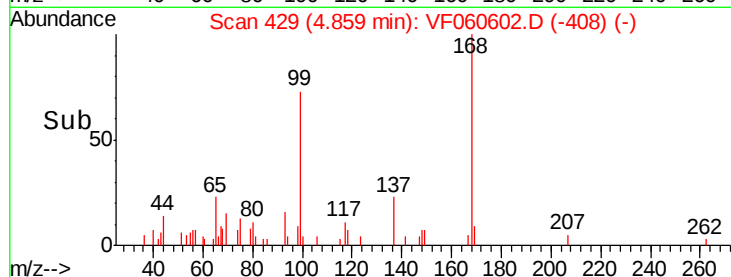
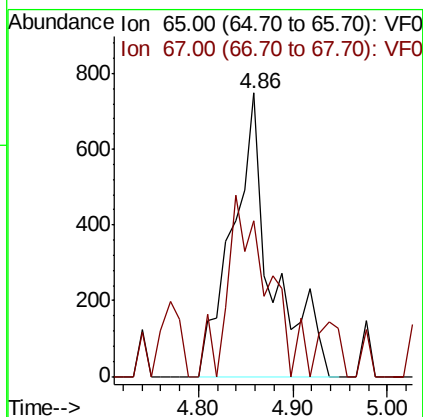
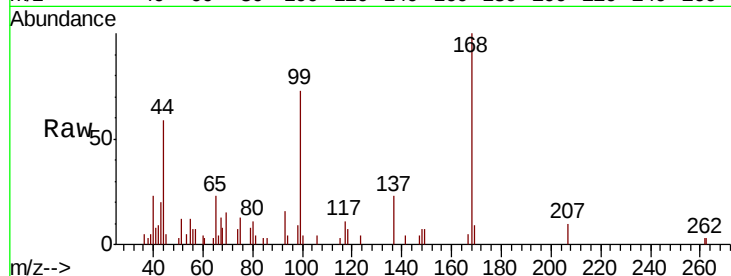




#33
 1,2-Dichloroethane-d4
 Concen: 11.589 ug/l
 RT: 4.86 min Scan# 429
 Delta R.T. 0.01 min
 Lab File: VF060602.D
 Acq: 6 Nov 2018 8:37

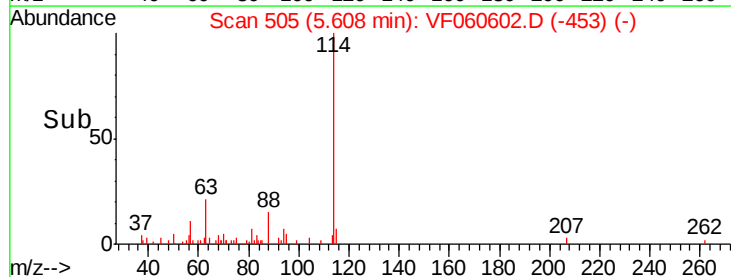
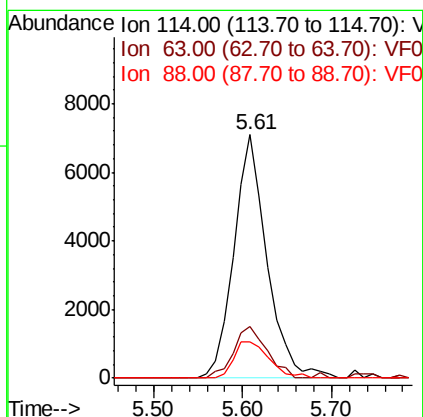
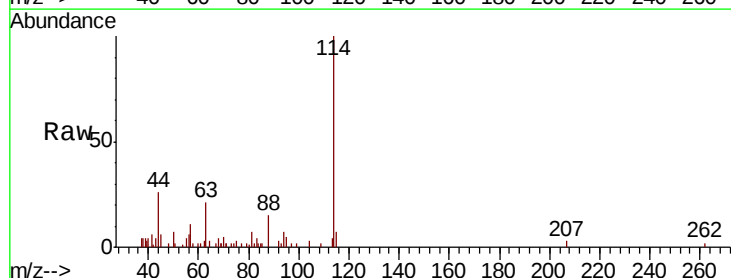
Instrument :
 MSVOA_F
 ClientSampleId :
 TP-11-S

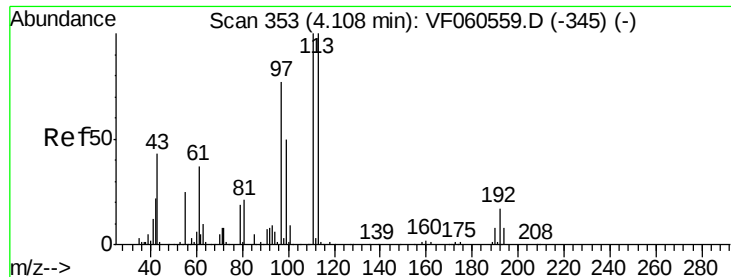
Tot Ion: 65 Resp: 2161
 Ion Ratio Lower Upper
 65 100
 67 55.1 0.0 101.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.61 min Scan# 505
 Delta R.T. 0.01 min
 Lab File: VF060602.D
 Acq: 6 Nov 2018 8:37

Tgt Ion: 114 Resp: 18294
 Ion Ratio Lower Upper
 114 100
 63 21.2 0.0 39.0
 88 15.0 0.0 38.2

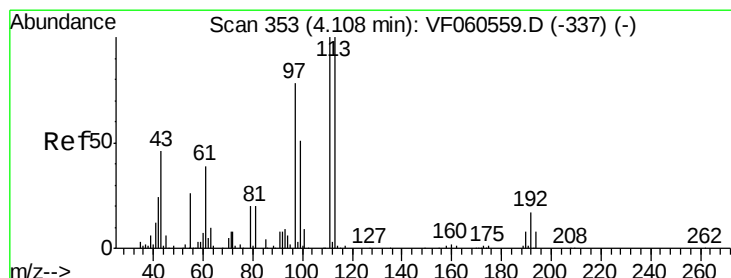
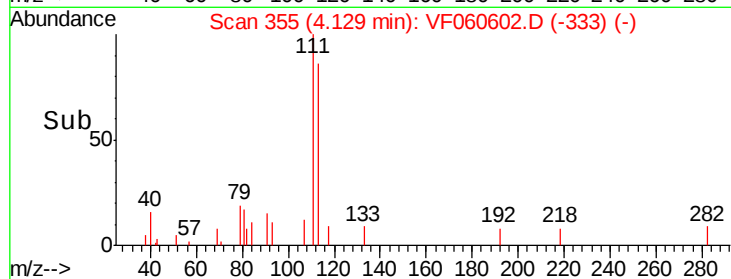
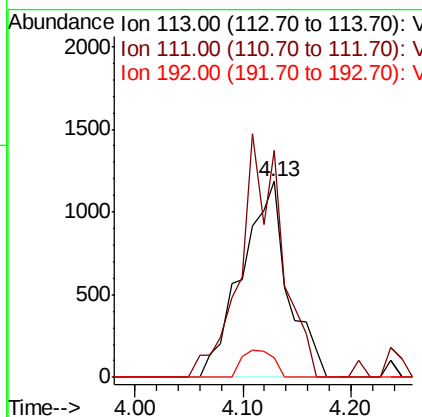
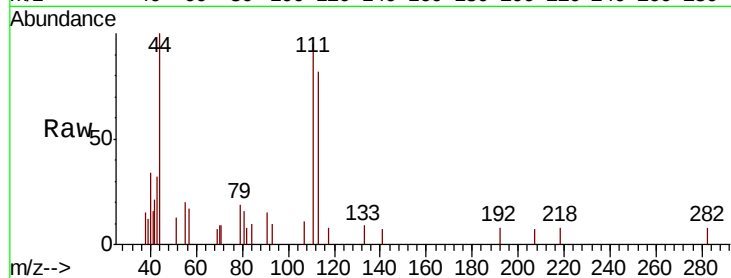




#35
Dibromofluoromethane
Concen: 25.082 ug/l
RT: 4.13 min Scan# 355
Delta R.T. 0.02 min
Lab File: VF060602.D
Acq: 6 Nov 2018 8:37

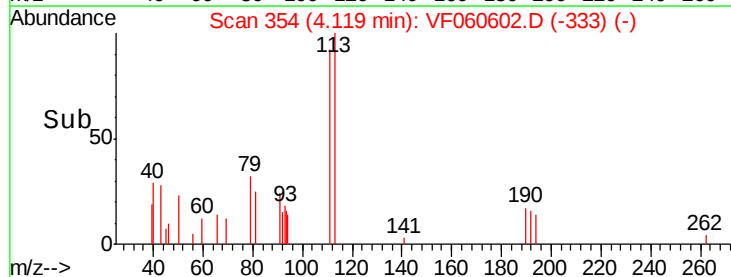
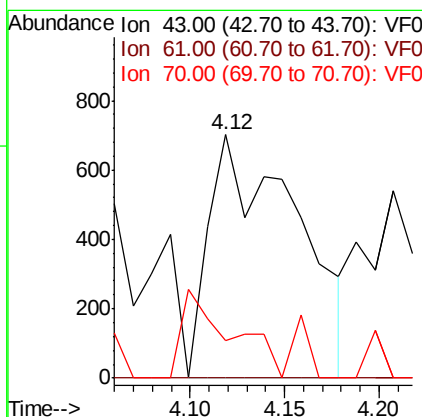
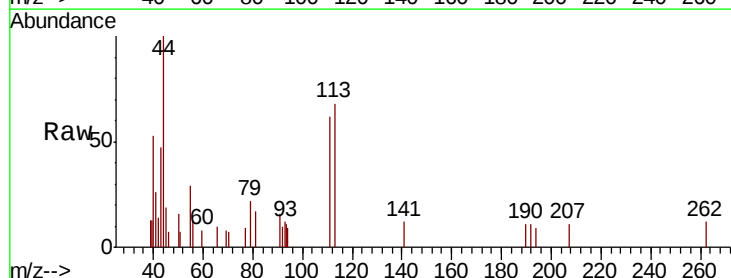
Instrument :
MSVOA_F
ClientSampleId :
TP-11-S

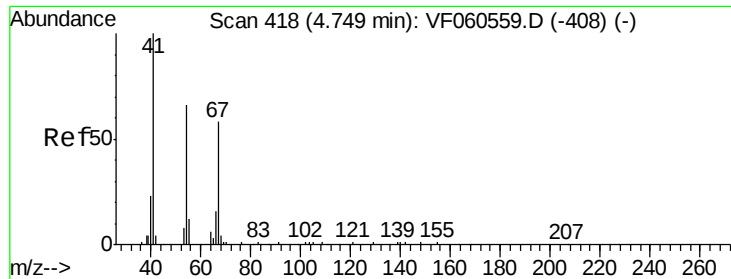
Tot Ion:113 Resp: 3545
Ion Ratio Lower Upper
113 100
111 116.3 79.9 119.9
192 9.7 13.3 19.9#



#37
Ethyl Acetate
Concen: 23.507 ug/l
RT: 4.12 min Scan# 354
Delta R.T. 0.01 min
Lab File: VF060602.D
Acq: 6 Nov 2018 8:37

Tgt Ion: 43 Resp: 2273
Ion Ratio Lower Upper
43 100
61 0.0 63.4 95.2#
70 15.7 9.3 13.9#

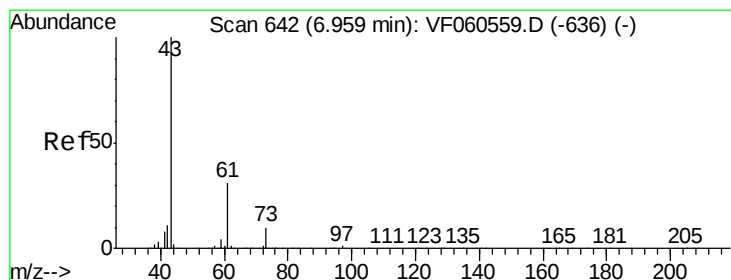
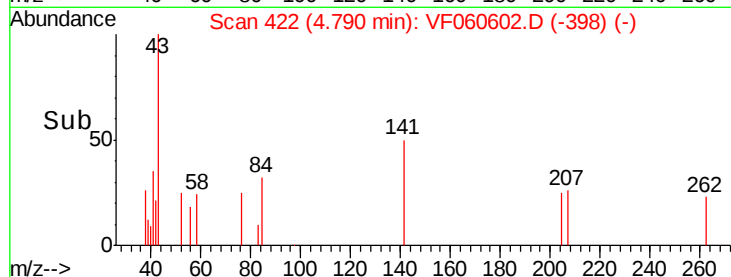
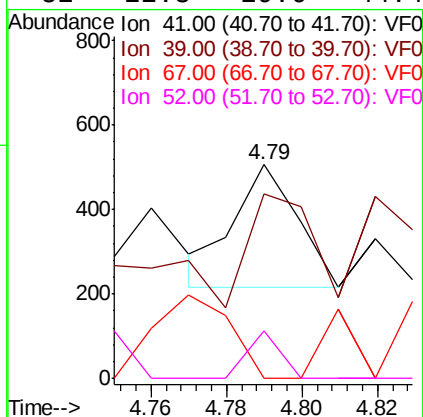
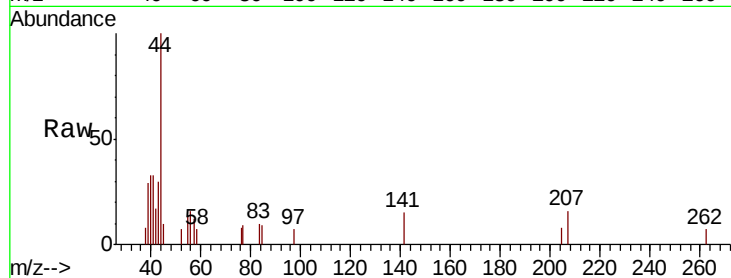




#41
Methacrylonitrile
Concen: 6.026 ug/l
RT: 4.79 min Scan# 422
Delta R.T. 0.04 min
Lab File: VF060602.D
Acq: 6 Nov 2018 8:37

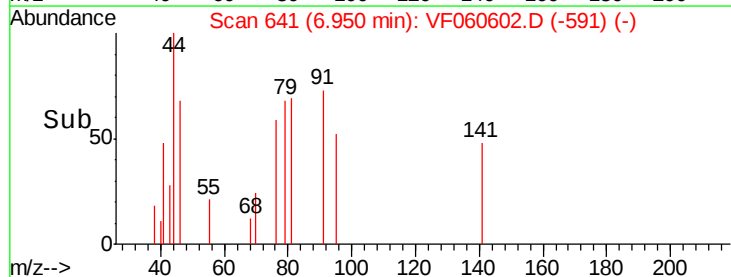
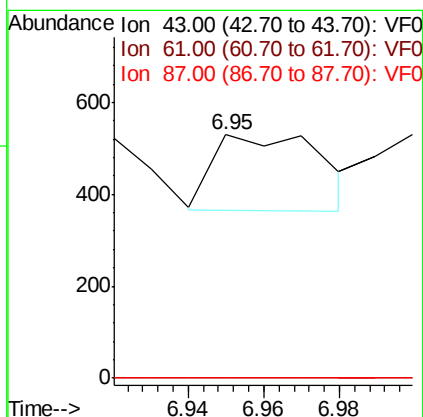
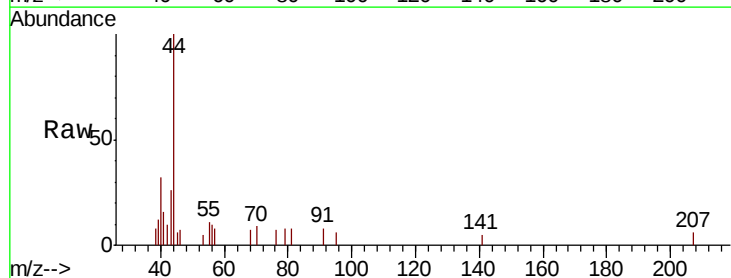
Instrument :
MSVOA_F
ClientSampled :
TP-11-S

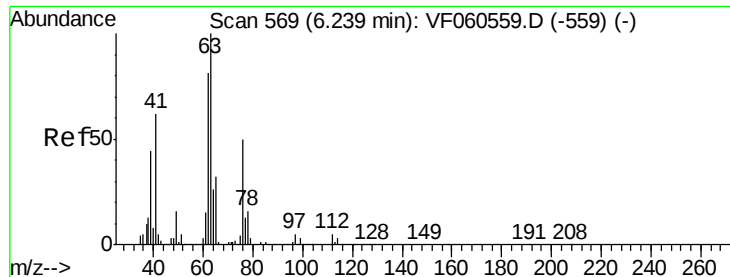
Tot Ion:	41	Resp:	330
Ion	Ratio	Lower	Upper
41	100		
39	86.6	45.6	68.4#
67	0.0	45.3	67.9#
52	22.3	29.6	44.4#



#43
Isopropyl Acetate
Concen: 2.682 ug/l
RT: 6.95 min Scan# 641
Delta R.T. -0.01 min
Lab File: VF060602.D
Acq: 6 Nov 2018 8:37

Tgt Ion:	43	Resp:	328
Ion	Ratio	Lower	Upper
43	100		
61	0.0	24.2	36.2#
87	0.0	0.2	0.4#





#45

1,2-Dichloropropane

Concen: 1.080 ug/l

RT: 6.28 min Scan# 573

Delta R.T. 0.04 min

Lab File: VF060602.D

Acq: 6 Nov 2018 8:37

Instrument :

MSVOA_F

ClientSampleId :

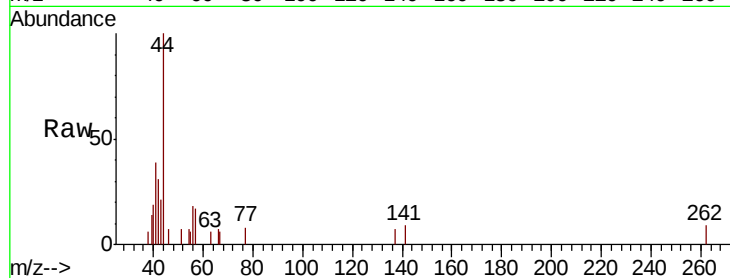
TP-11-S

Tot Ion: 63 Resp: 135

Ion Ratio Lower Upper

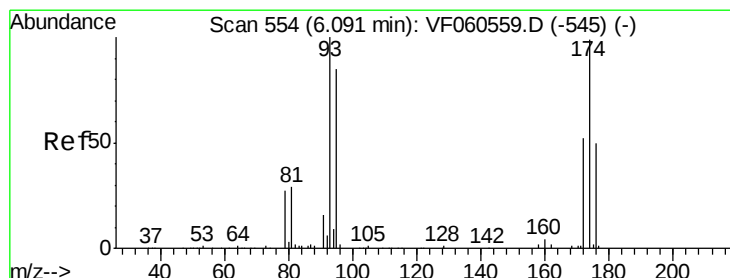
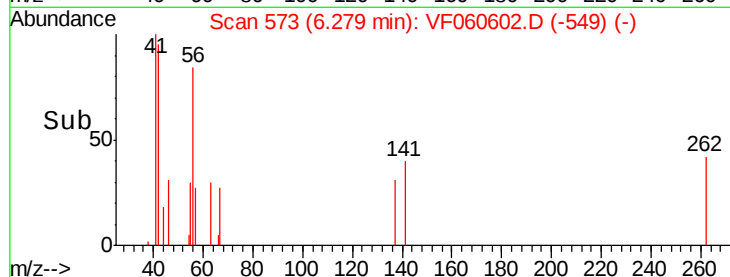
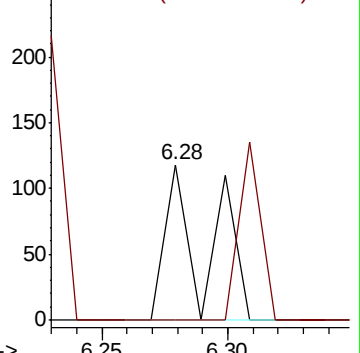
63 100

65 0.0 25.4 38.0#



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 65.00 (64.70 to 65.70): VF0



#46

Dibromomethane

Concen: 1.008 ug/l

RT: 6.02 min Scan# 547

Delta R.T. -0.07 min

Lab File: VF060602.D

Acq: 6 Nov 2018 8:37

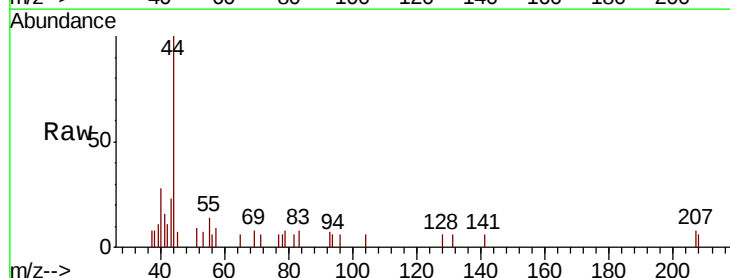
Tgt Ion: 93 Resp: 80

Ion Ratio Lower Upper

93 100

95 0.0 68.6 102.8#

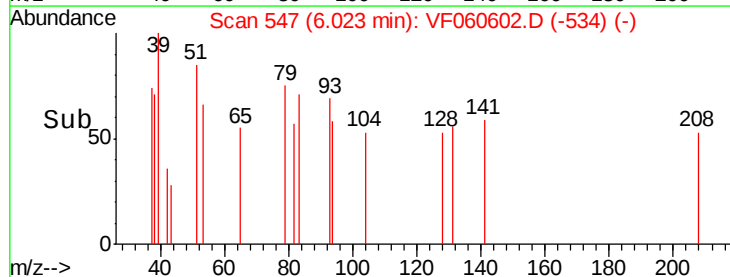
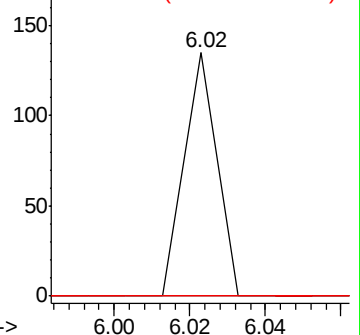
174 0.0 79.0 118.4#

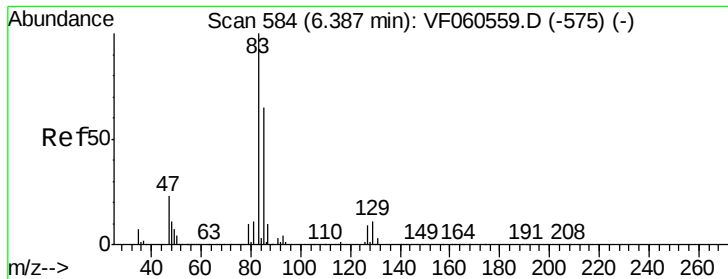


Abundance Ion 93.00 (92.70 to 93.70): VF0

Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V





#47

Bromodichloromethane

Concen: 1.442 ug/l

RT: 6.41 min Scan# 586

Delta R.T. 0.02 min

Lab File: VF060602.D

Acq: 6 Nov 2018 8:37

Instrument :

MSVOA_F

ClientSampleId :

TP-11-S

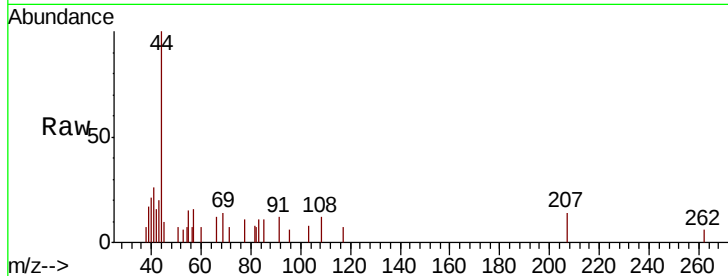
Tot Ion: 83 Resp: 276

Ion Ratio Lower Upper

83 100

85 102.7 51.8 77.6#

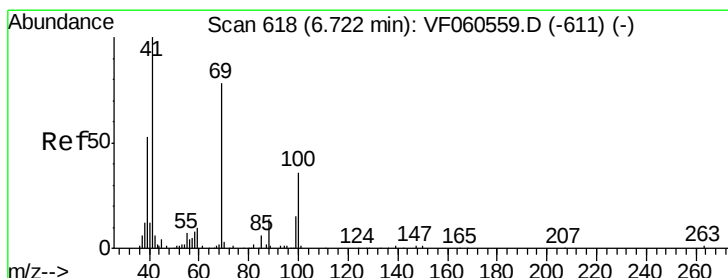
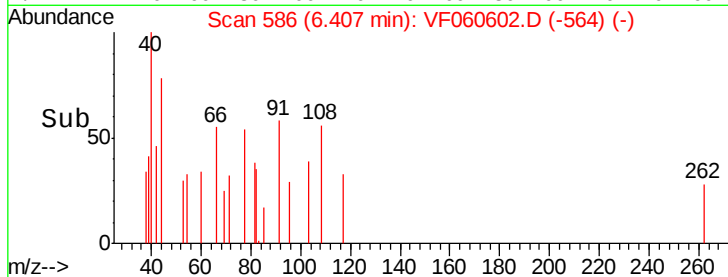
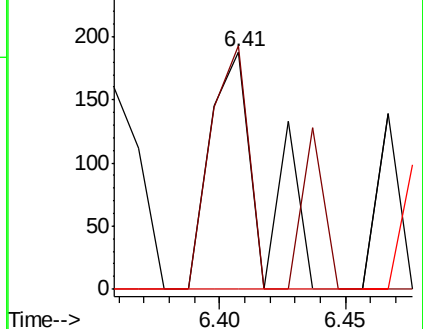
127 0.0 7.0 10.4#



Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 85.00 (84.70 to 85.70): VF0

Ion 127.00 (126.70 to 127.70): V



#48

Methyl methacrylate

Concen: 6.596 ug/l

RT: 6.72 min Scan# 618

Delta R.T. 0.00 min

Lab File: VF060602.D

Acq: 6 Nov 2018 8:37

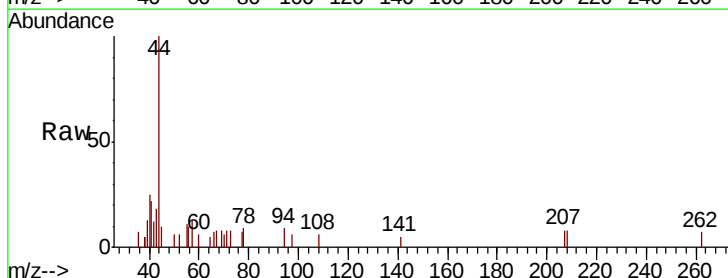
Tgt Ion: 41 Resp: 507

Ion Ratio Lower Upper

41 100

69 37.6 61.1 91.7#

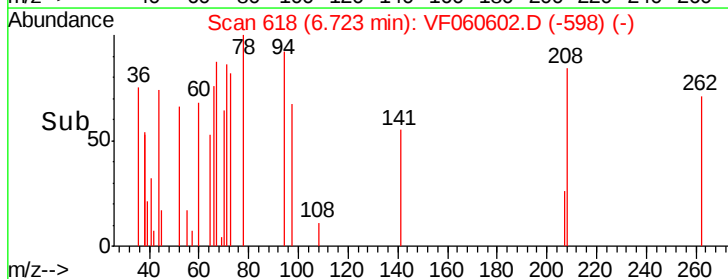
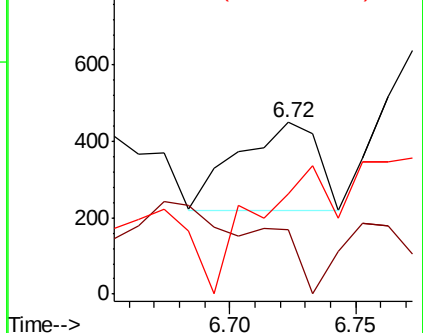
39 58.4 43.0 64.6

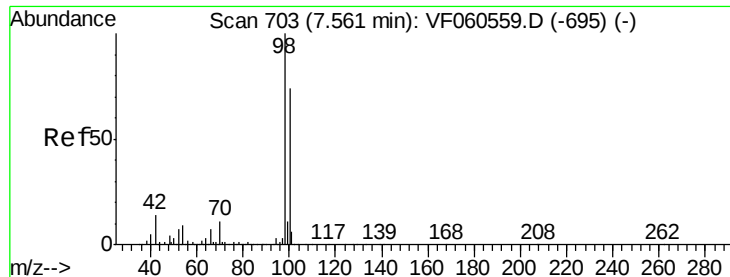


Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 69.00 (68.70 to 69.70): VF0

Ion 39.00 (38.70 to 39.70): VF0





#50

Toluene-d8

Concen: 33.249 ug/l

RT: 7.56 min Scan# 703

Delta R.T. 0.00 min

Lab File: VF060602.D

Acq: 6 Nov 2018 8:37

Instrument :

MSVOA_F

ClientSampleId :

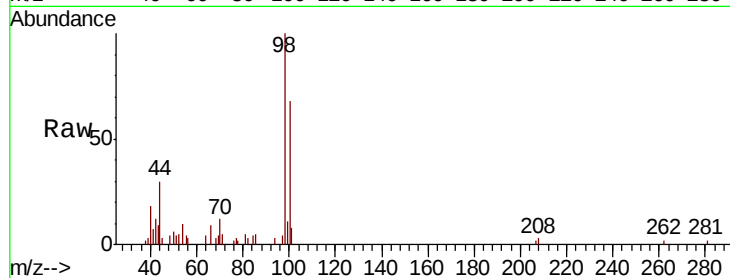
TP-11-S

Tot Ion: 98 Resp: 13921

Ion Ratio Lower Upper

98 100

100 68.2 59.4 89.2



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF

6000

5000

4000

3000

2000

1000

0

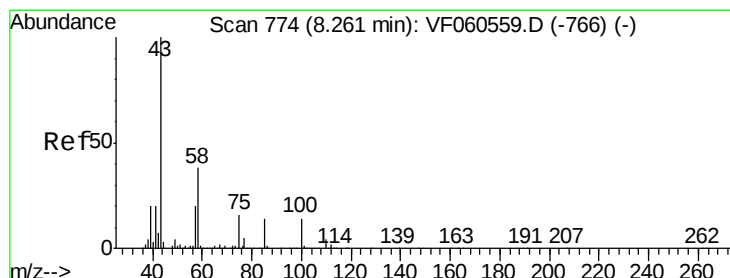
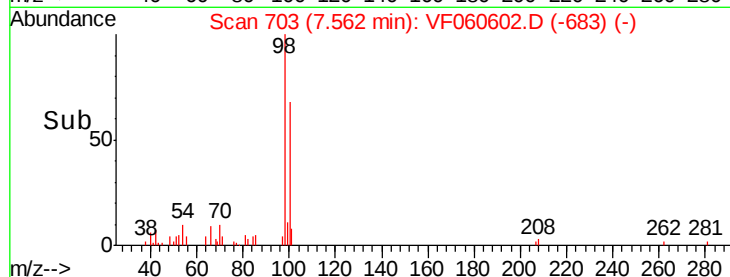
7.50

7.56

7.60

7.70

Time-->



#51

4-Methyl-2-Pentanone

Concen: 10.480 ug/l

RT: 8.25 min Scan# 773

Delta R.T. -0.01 min

Lab File: VF060602.D

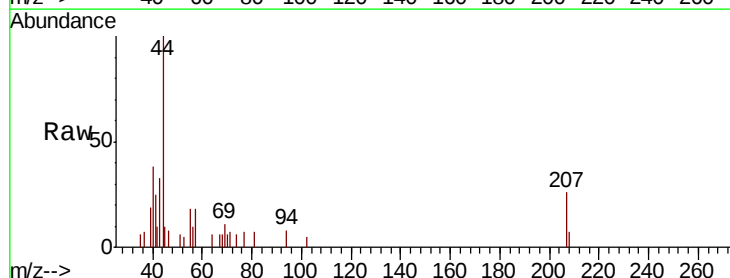
Acq: 6 Nov 2018 8:37

Tgt Ion: 43 Resp: 862

Ion Ratio Lower Upper

43 100

58 0.0 30.1 45.1#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

600

400

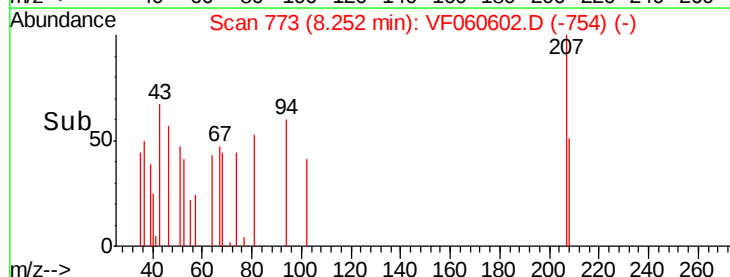
200

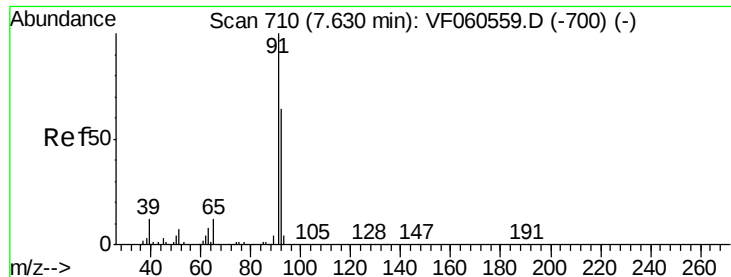
0

8.25

8.30

Time-->





#52

Toluene

Concen: 1.410 ug/l

RT: 7.64 min Scan# 711

Delta R.T. 0.01 min

Lab File: VF060602.D

Acq: 6 Nov 2018 8:37

Instrument :

MSVOA_F

ClientSampleId :

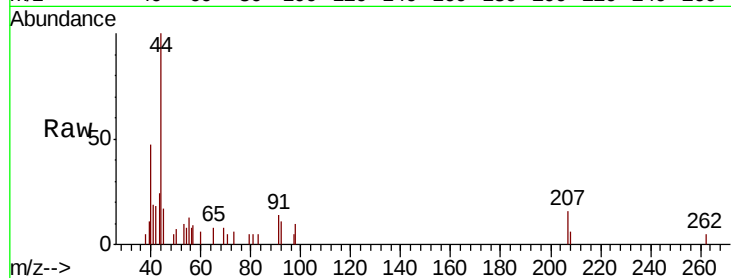
TP-11-S

Tot Ion: 92 Resp: 449

Ion Ratio Lower Upper

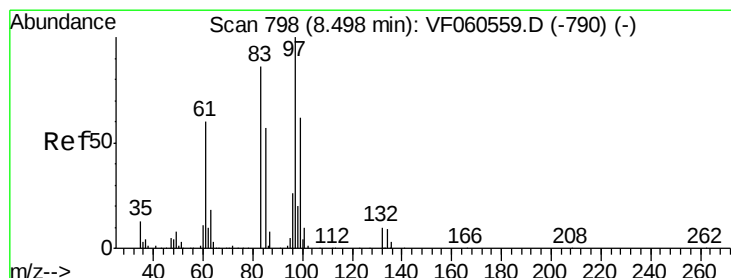
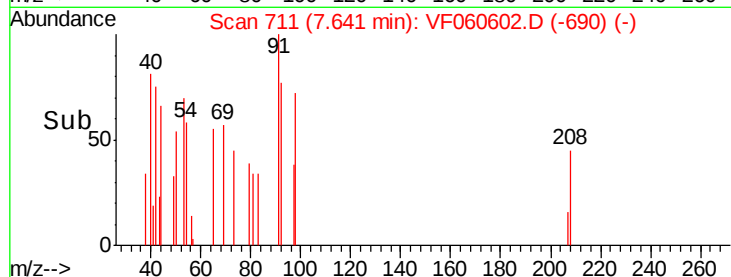
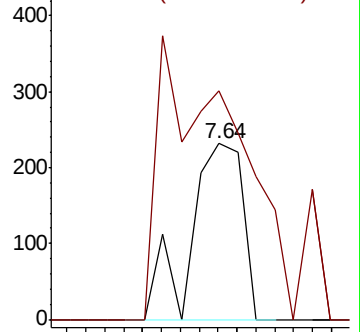
92 100

91 129.7 124.5 186.7



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0



#55

1,1,2-Trichloroethane

Concen: 2.374 ug/l

RT: 8.54 min Scan# 802

Delta R.T. 0.04 min

Lab File: VF060602.D

Acq: 6 Nov 2018 8:37

Tgt Ion: 97 Resp: 220

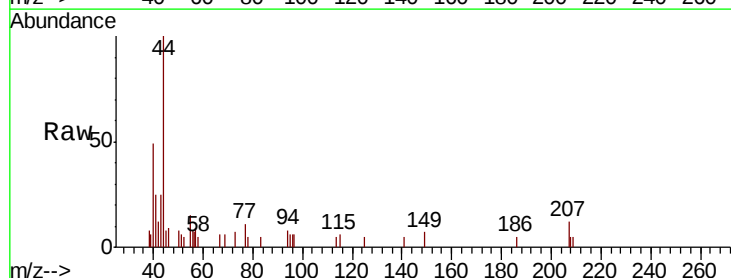
Ion Ratio Lower Upper

97 100

83 74.8 69.4 104.0

85 0.0 46.6 69.8#

99 0.0 50.0 75.0#

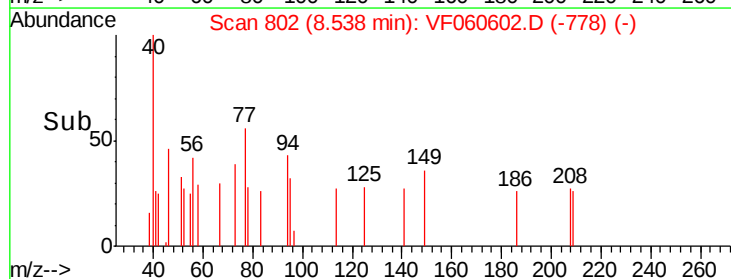
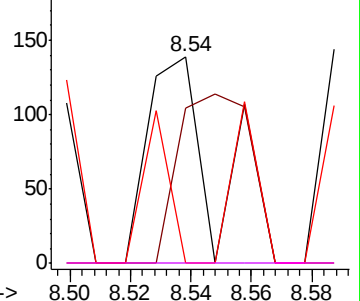


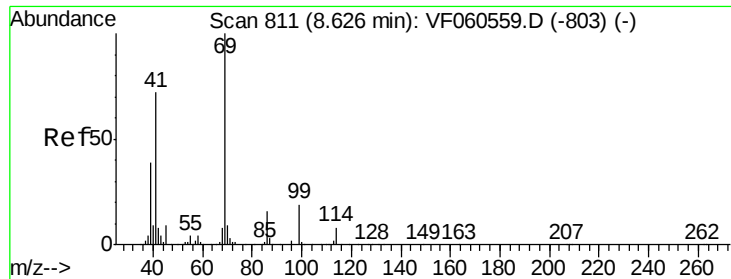
Abundance Ion 97.00 (96.70 to 97.70): VF0

Ion 82.95 (82.65 to 83.65): VF0

Ion 84.95 (84.65 to 85.65): VF0

Ion 98.95 (98.65 to 99.65): VF0





#56

Ethyl methacrylate

Concen: 2.793 ug/l

RT: 8.62 min Scan# 810

Delta R.T. -0.01 min

Lab File: VF060602.D

Acq: 6 Nov 2018 8:37

Instrument :

MSVOA_F

ClientSampled :

TP-11-S

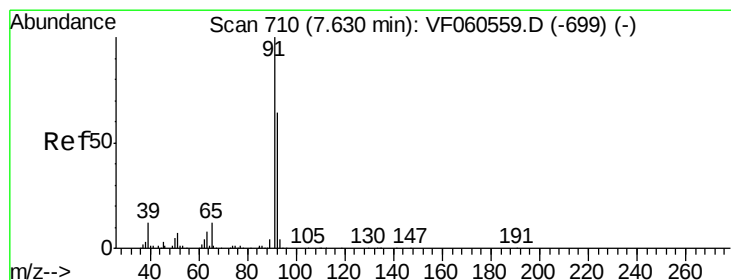
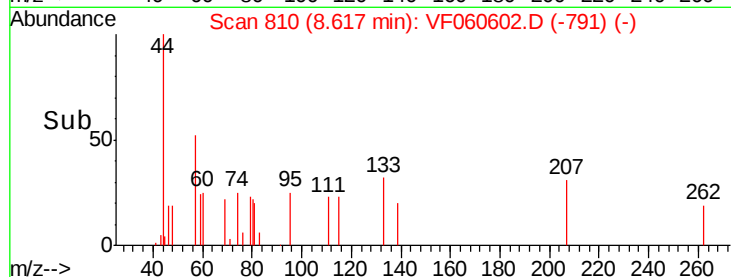
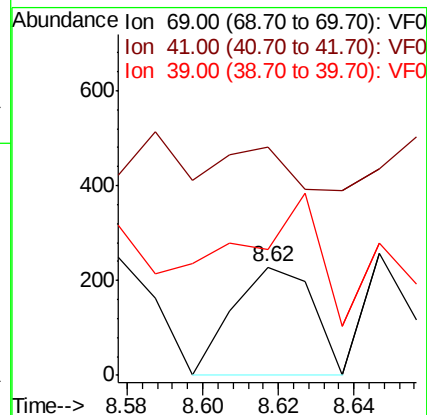
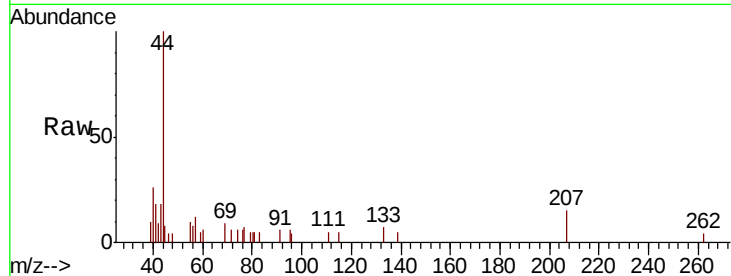
Tot Ion: 69 Resp: 333

Ion Ratio Lower Upper

69 100

41 210.5 59.2 88.8#

39 116.2 32.3 48.5#



#58

2-Chloroethyl Vinyl ether

Concen: Below Cal

RT: 7.63 min Scan# 710

Delta R.T. 0.00 min

Lab File: VF060602.D

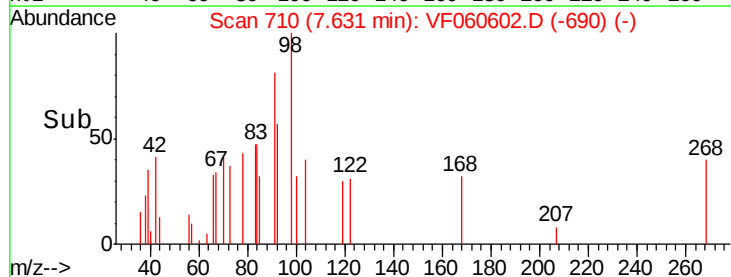
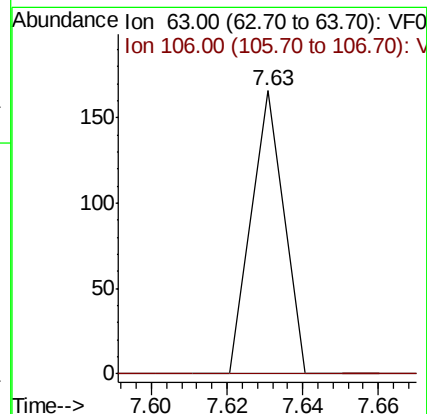
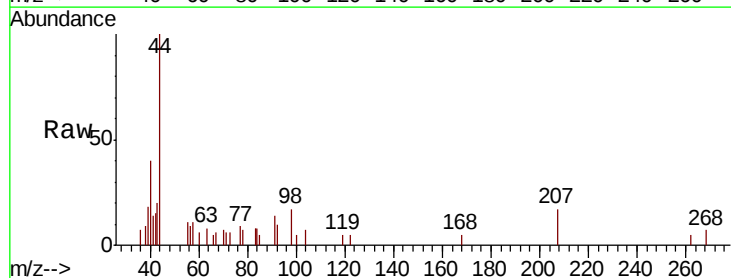
Acq: 6 Nov 2018 8:37

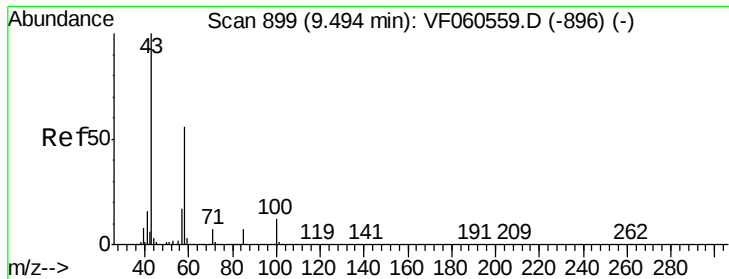
Tgt Ion: 63 Resp: 98

Ion Ratio Lower Upper

63 100

106 0.0 0.0 0.0

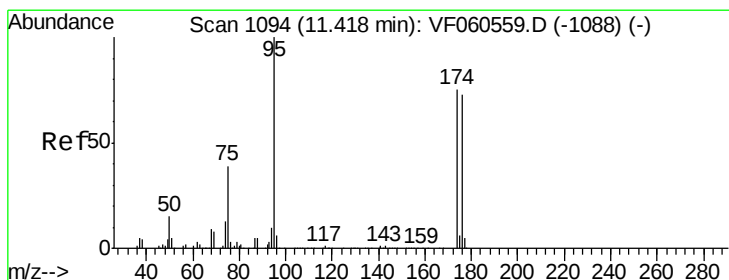
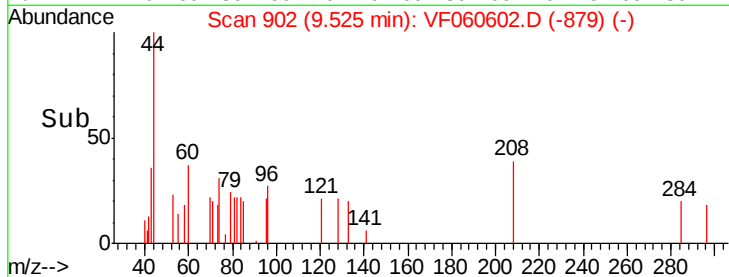
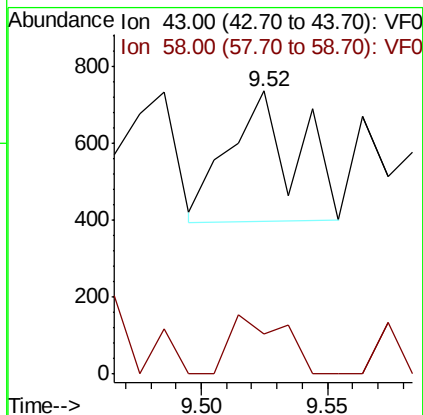
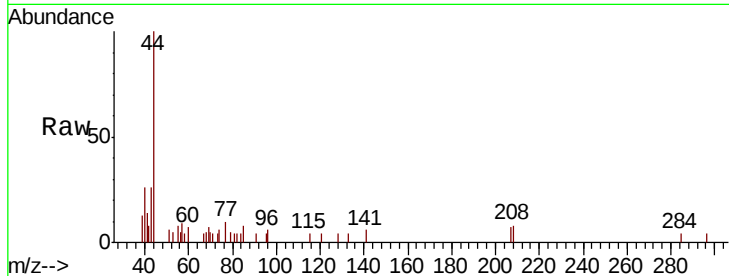




#59
2-Hexanone
Concen: Below Cal
RT: 9.52 min Scan# 902
Delta R.T. 0.03 min
Lab File: VF060602.D
Acq: 6 Nov 2018 8:37

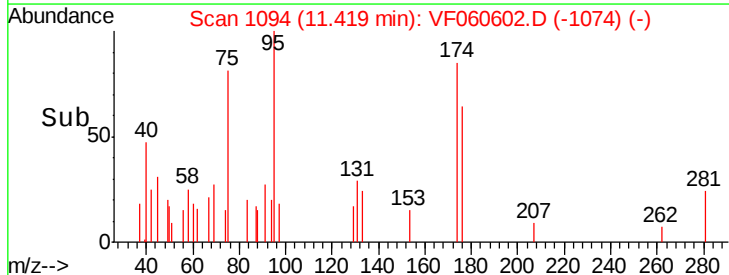
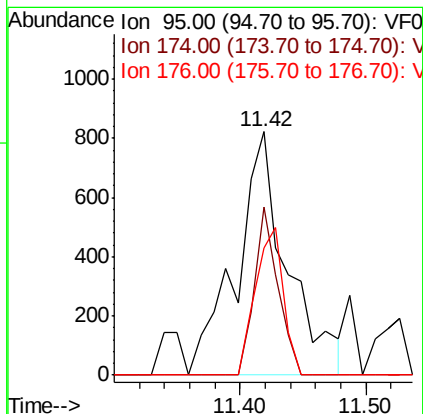
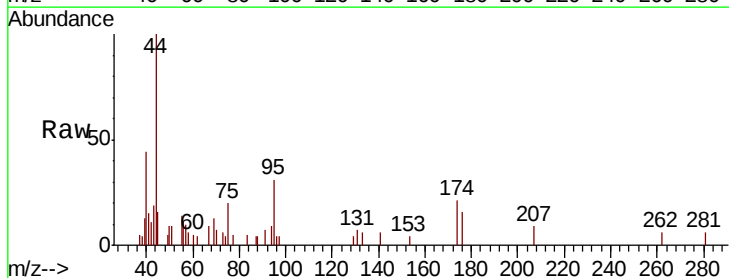
Instrument :
MSVOA_F
ClientSampleId :
TP-11-S

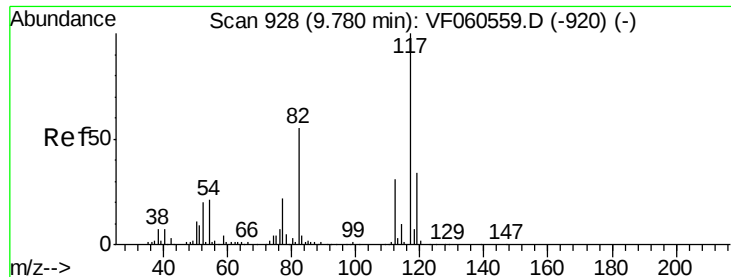
Tot Ion: 43 Resp: 629
Ion Ratio Lower Upper
43 100
58 14.4 26.1 78.3#



#62
4-Bromofluorobenzene
Concen: 12.613 ug/l
RT: 11.42 min Scan# 1094
Delta R.T. 0.00 min
Lab File: VF060602.D
Acq: 6 Nov 2018 8:37

Tgt Ion: 95 Resp: 2310
Ion Ratio Lower Upper
95 100
174 69.0 0.0 149.0
176 52.0 0.0 145.6

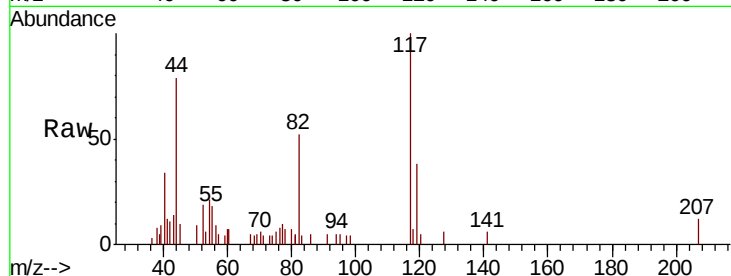




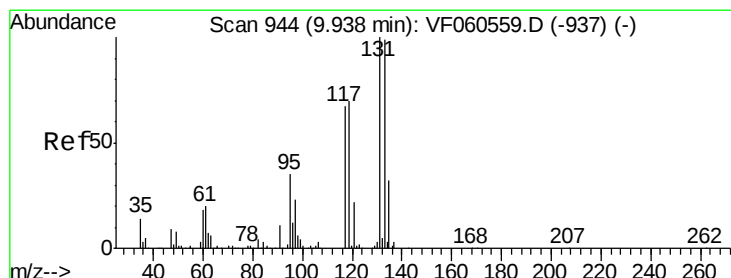
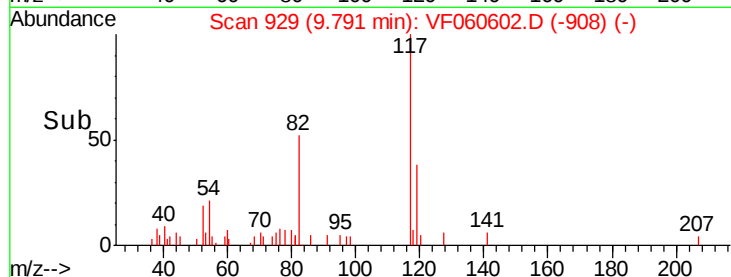
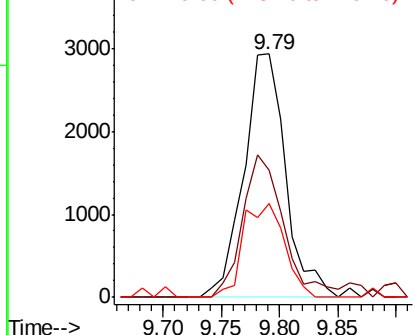
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.79 min Scan# 929
Delta R.T. 0.01 min
Lab File: VF060602.D
Acq: 6 Nov 2018 8:37

Instrument :
MSVOA_F
ClientSampleId :
TP-11-S

Tot Ion:117 Resp: 7324
Ion Ratio Lower Upper
117 100
82 52.4 43.9 65.9
119 38.5 27.4 41.0

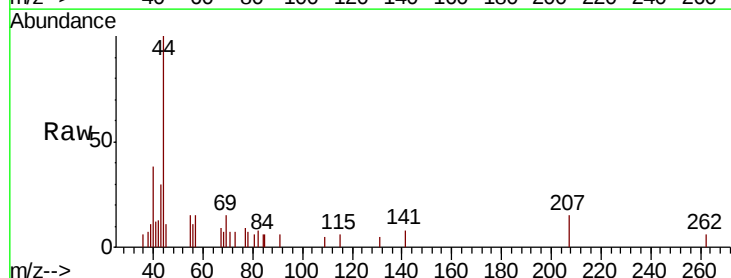


Abundance Ion 117.00 (116.70 to 117.70): V
Ion 82.00 (81.70 to 82.70): V
Ion 119.00 (118.70 to 119.70): V

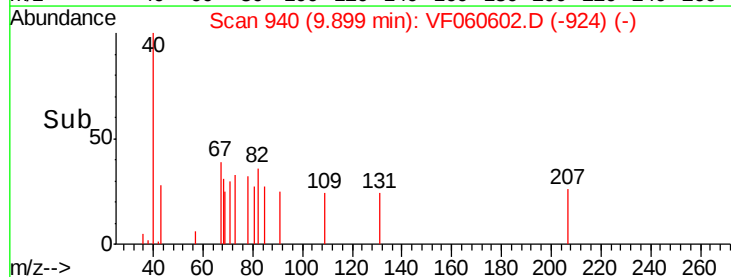
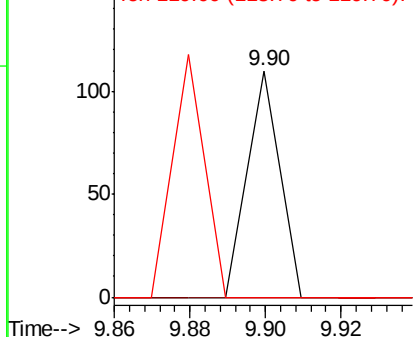


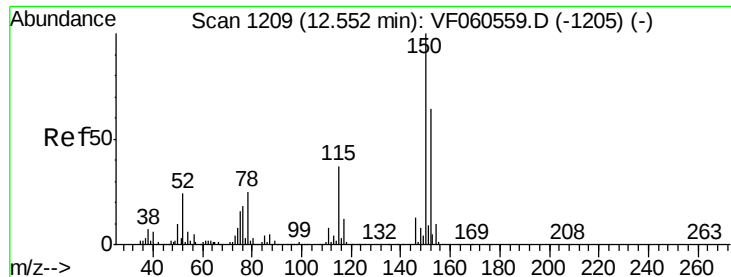
#66
1,1,1,2-Tetrachloroethane
Concen: 1.027 ug/l
RT: 9.90 min Scan# 940
Delta R.T. -0.04 min
Lab File: VF060602.D
Acq: 6 Nov 2018 8:37

Tgt Ion:131 Resp: 65
Ion Ratio Lower Upper
131 100
133 0.0 49.5 148.7#
119 0.0 35.2 105.6#



Abundance Ion 131.00 (130.70 to 131.70): V
Ion 133.00 (132.70 to 133.70): V
Ion 119.00 (118.70 to 119.70): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.55 min Scan# 1209

Delta R.T. 0.00 min

Lab File: VF060602.D

Acq: 6 Nov 2018 8:37

Instrument :

MSVOA_F

ClientSampled :

TP-11-S

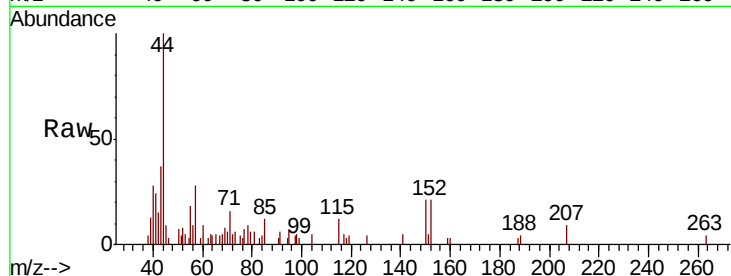
Tot Ion:152 Resp: 1150

Ion Ratio Lower Upper

152 100

115 59.6 29.6 88.8

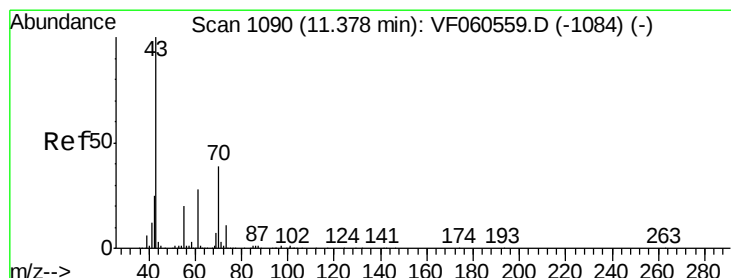
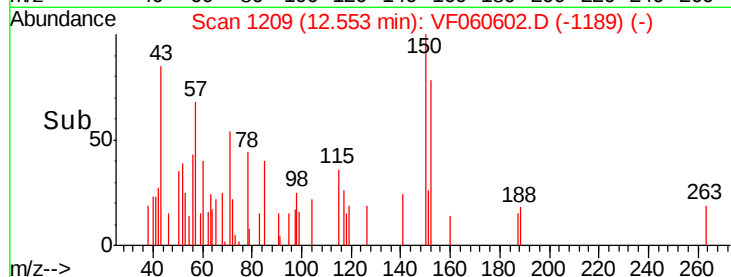
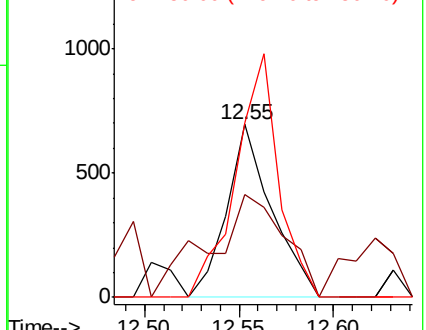
150 100.7 0.0 315.6



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-ethyl acetate

Concen: 65.084 ug/l

RT: 11.39 min Scan# 1091

Delta R.T. 0.01 min

Lab File: VF060602.D

Acq: 6 Nov 2018 8:37

Tgt Ion: 43 Resp: 1455

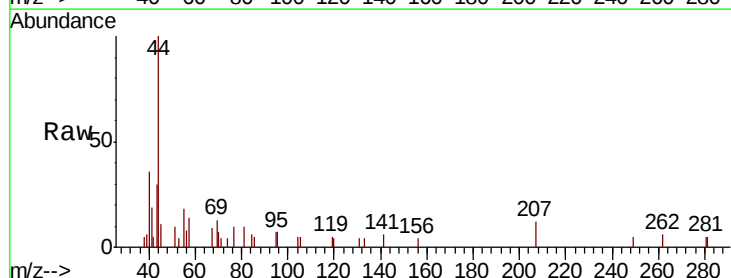
Ion Ratio Lower Upper

43 100

70 22.5 30.9 46.3#

55 60.3 16.6 24.8#

61 0.0 22.0 33.0#

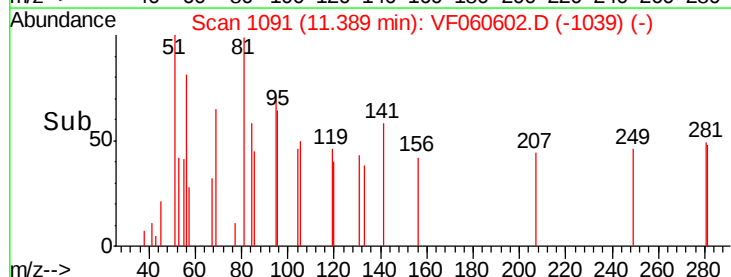
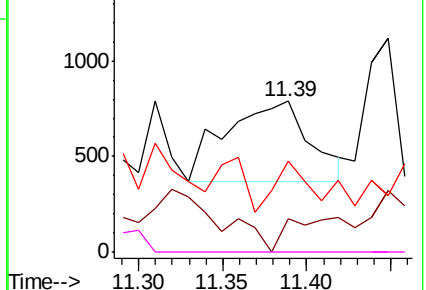


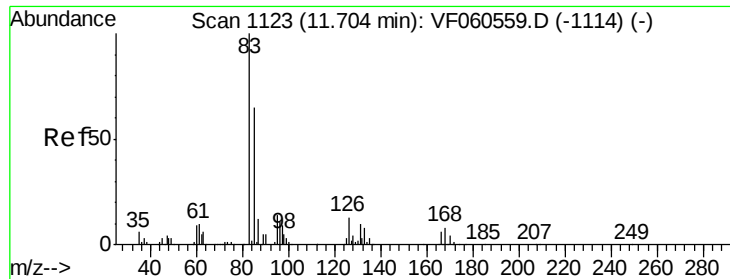
Abundance Ion 43.00 (42.70 to 43.70): VF0

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





#75

1,1,2,2-Tetrachloroethane

Concen: 12.095 ug/l

RT: 11.72 min Scan# 1125

Delta R.T. 0.02 min

Lab File: VF060602.D

Acq: 6 Nov 2018 8:37

Instrument :

MSVOA_F

ClientSampled :

TP-11-S

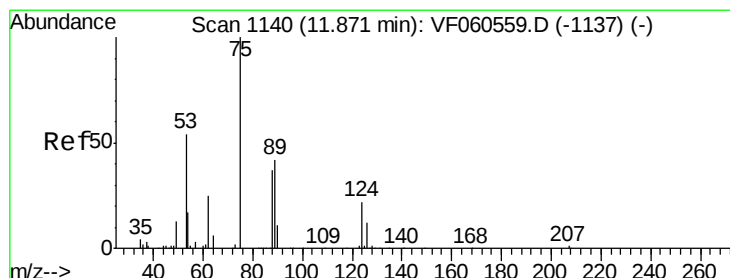
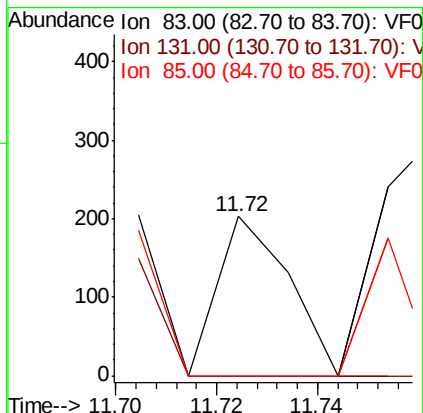
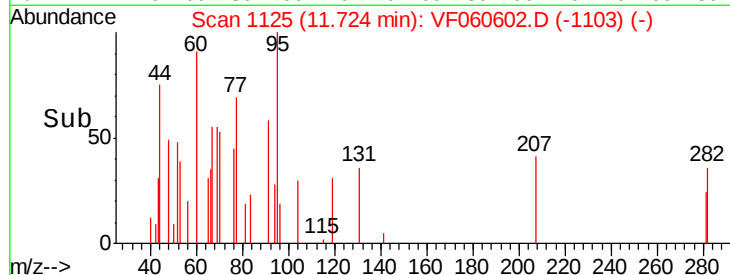
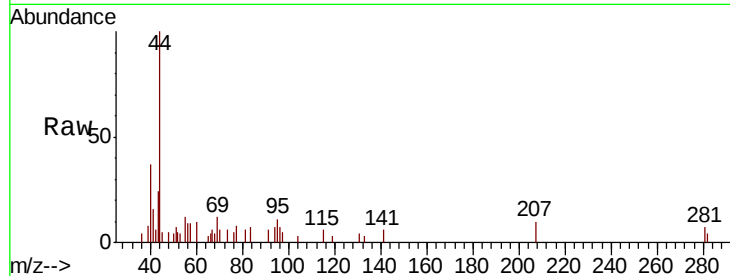
Tot Ion: 83 Resp: 198

Ion Ratio Lower Upper

83 100

131 0.0 5.0 14.9#

85 0.0 32.9 98.7#



#76

1,2,3-Trichloropropane

Concen: 8.328 ug/l

RT: 11.83 min Scan# 1136

Delta R.T. -0.04 min

Lab File: VF060602.D

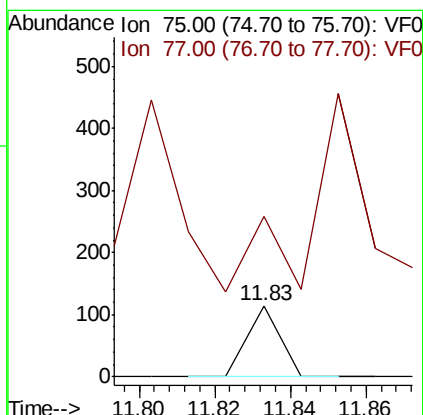
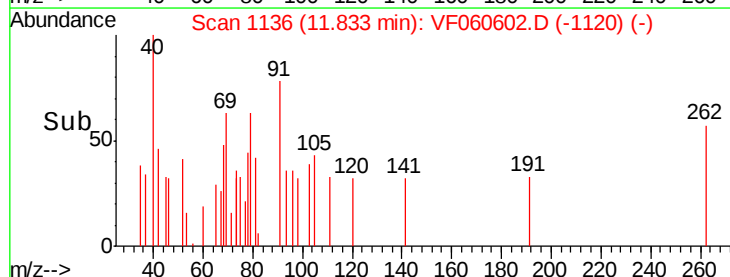
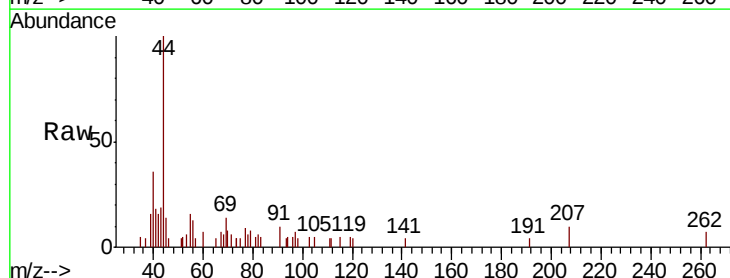
Acq: 6 Nov 2018 8:37

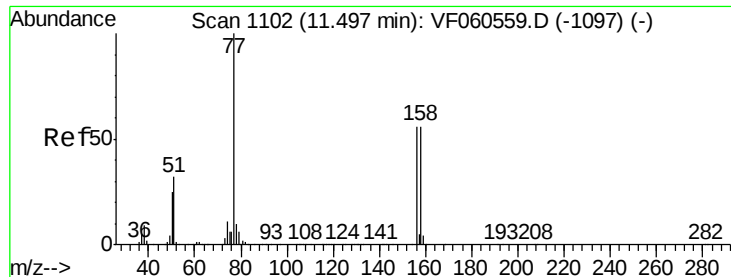
Tgt Ion: 75 Resp: 67

Ion Ratio Lower Upper

75 100

77 226.3 17.4 52.3#

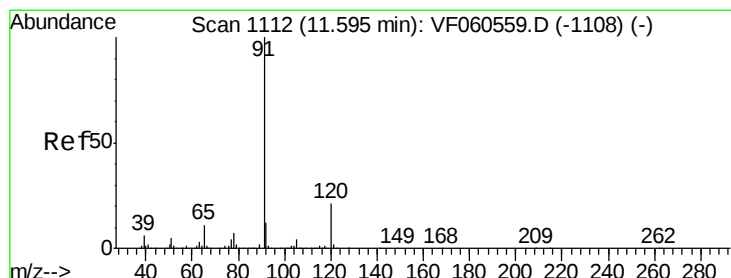
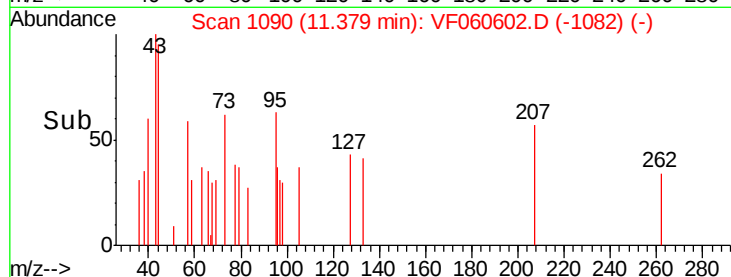
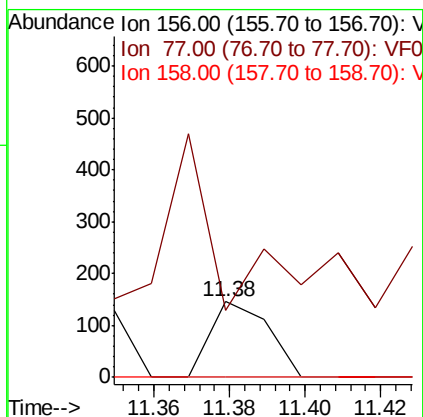
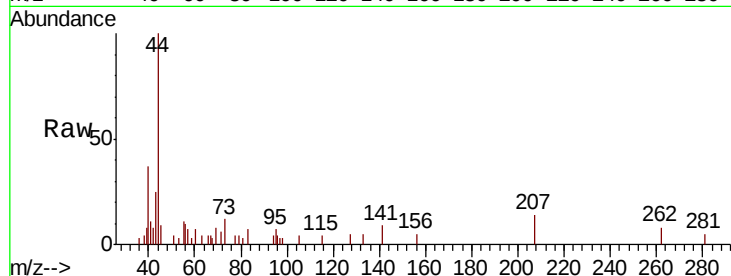




#77
Bromobenzene
Concen: 7.796 ug/l
RT: 11.38 min Scan# 1090
Delta R.T. -0.12 min
Lab File: VF060602.D
Acq: 6 Nov 2018 8:37

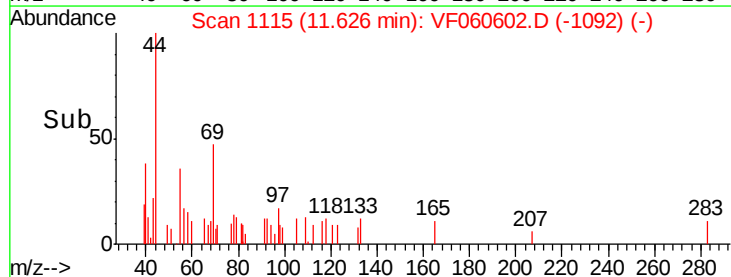
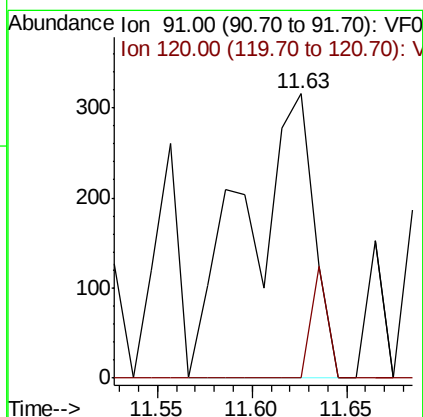
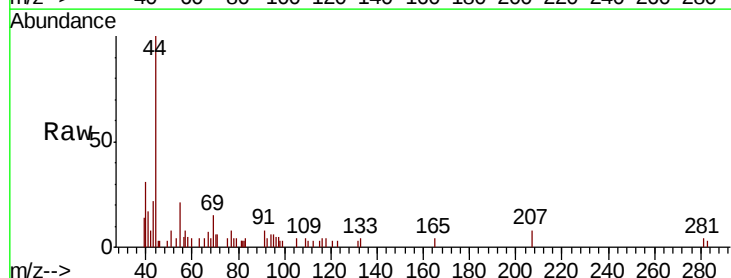
Instrument :
MSVOA_F
ClientSampleId :
TP-11-S

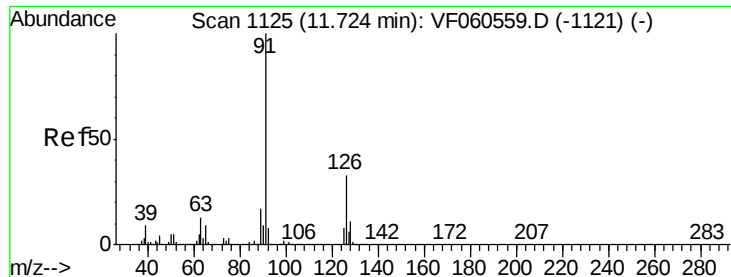
Tot Ion:156 Resp: 153
Ion Ratio Lower Upper
156 100
77 87.7 89.3 268.1#
158 0.0 50.0 150.1#



#78
n-propylbenzene
Concen: 7.510 ug/l
RT: 11.63 min Scan# 1115
Delta R.T. 0.03 min
Lab File: VF060602.D
Acq: 6 Nov 2018 8:37

Tgt Ion: 91 Resp: 788
Ion Ratio Lower Upper
91 100
120 0.0 10.5 31.6#





#79

2-Chlorotoluene

Concen: 10.446 ug/l

RT: 11.74 min Scan# 1127

Delta R.T. 0.02 min

Lab File: VF060602.D

Acq: 6 Nov 2018 8:37

Instrument :

MSVOA_F

ClientSampled :

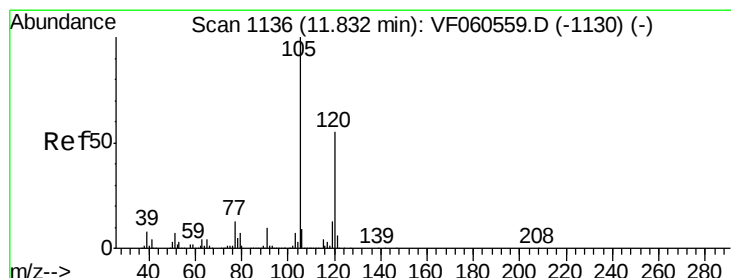
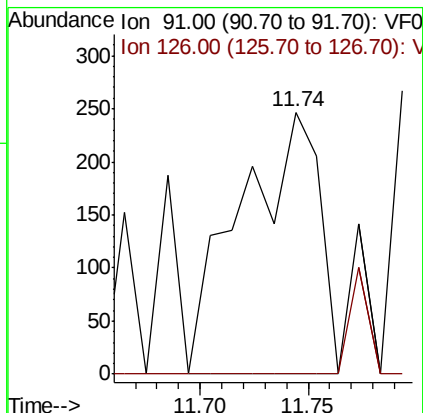
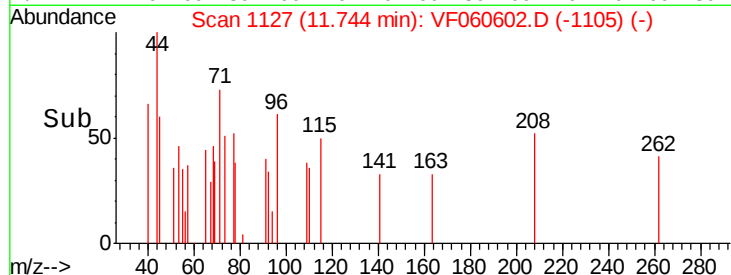
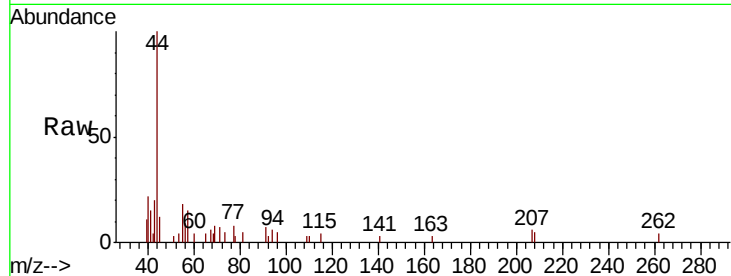
TP-11-S

Tot Ion: 91 Resp: 626

Ion Ratio Lower Upper

91 100

126 0.0 16.5 49.5#



#80

1,3,5-Trimethylbenzene

Concen: 10.619 ug/l

RT: 11.80 min Scan# 1133

Delta R.T. -0.03 min

Lab File: VF060602.D

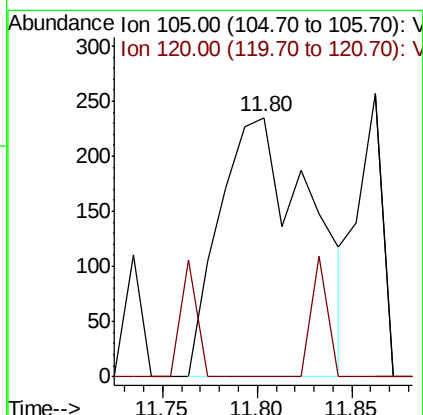
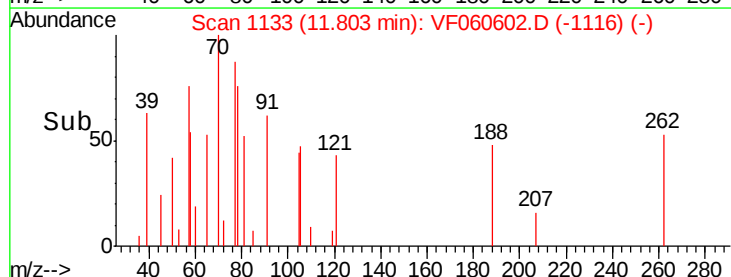
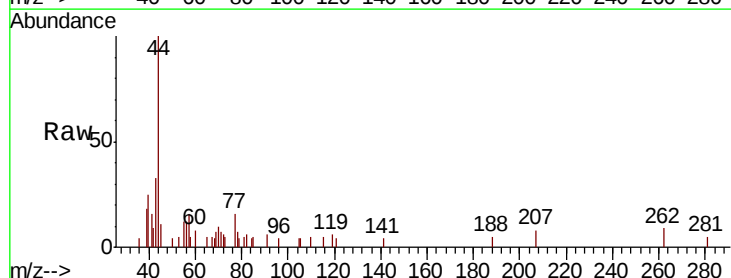
Acq: 6 Nov 2018 8:37

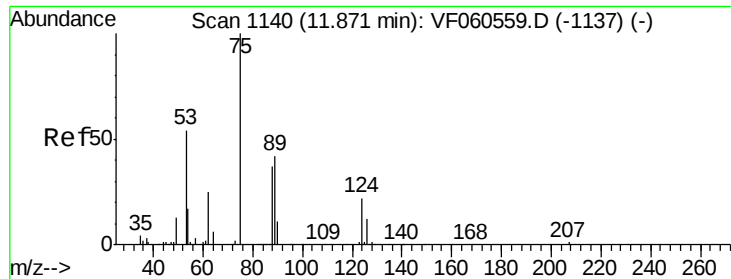
Tgt Ion: 105 Resp: 785

Ion Ratio Lower Upper

105 100

120 0.0 27.6 82.8#





#81

trans-1,4-Dichloro-2-butene

Concen: 10.597 ug/l

RT: 11.83 min Scan# 1136

Delta R.T. -0.04 min

Lab File: VF060602.D

Acq: 6 Nov 2018 8:37

Instrument :

MSVOA_F

ClientSampled :

TP-11-S

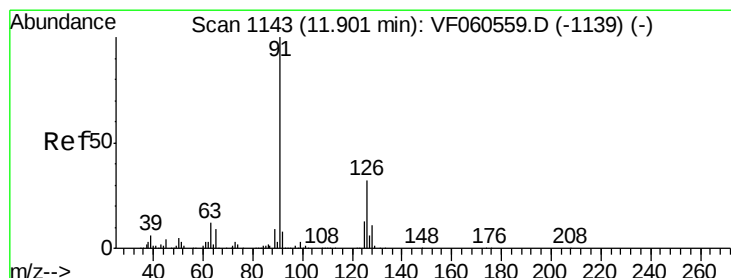
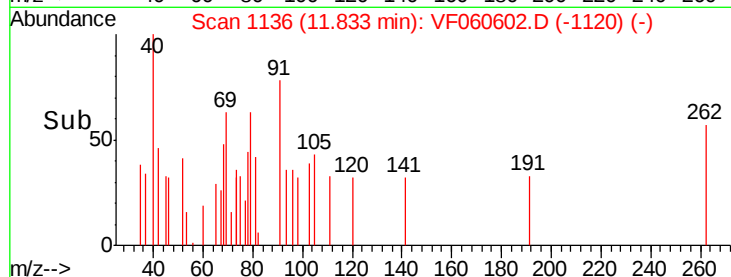
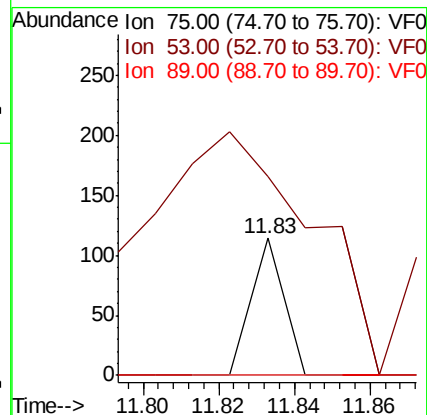
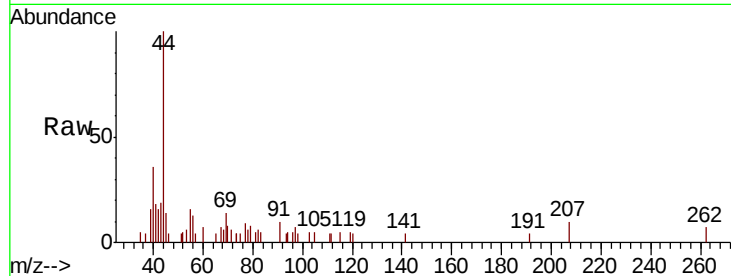
Tot Ion: 75 Resp: 67

Ion Ratio Lower Upper

75 100

53 145.6 51.6 77.4#

89 0.0 36.7 55.1#



#82

4-Chlorotoluene

Concen: 4.878 ug/l

RT: 11.92 min Scan# 1145

Delta R.T. 0.02 min

Lab File: VF060602.D

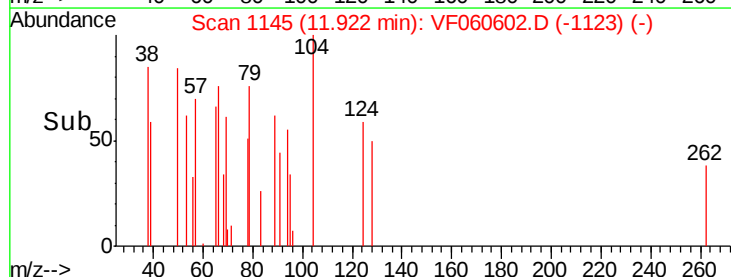
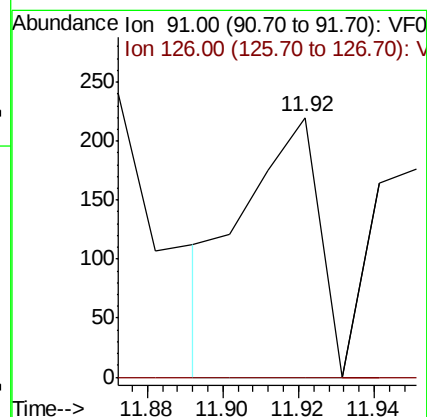
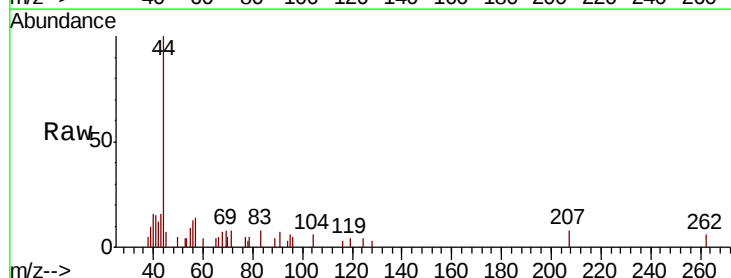
Acq: 6 Nov 2018 8:37

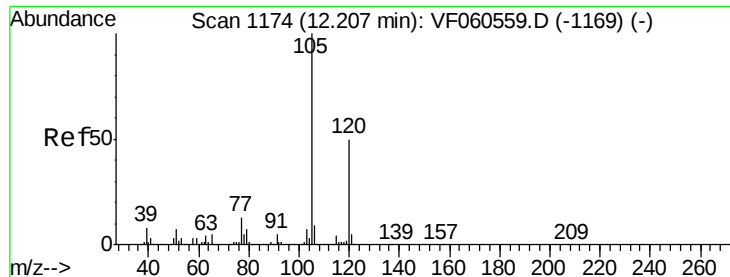
Tgt Ion: 91 Resp: 305

Ion Ratio Lower Upper

91 100

126 0.0 15.9 47.7#

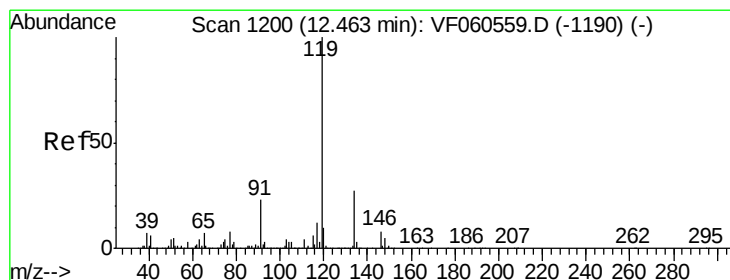
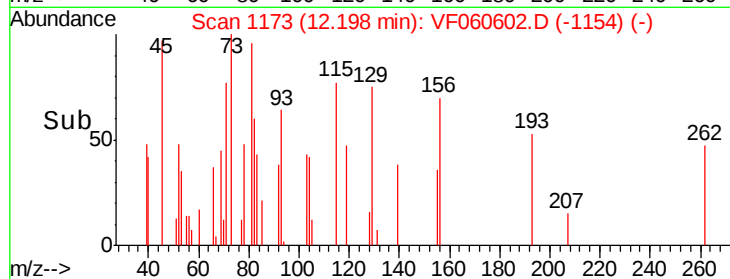
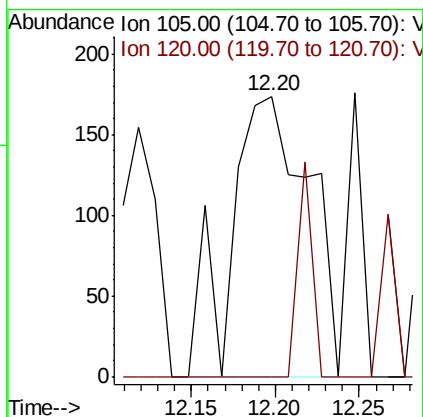
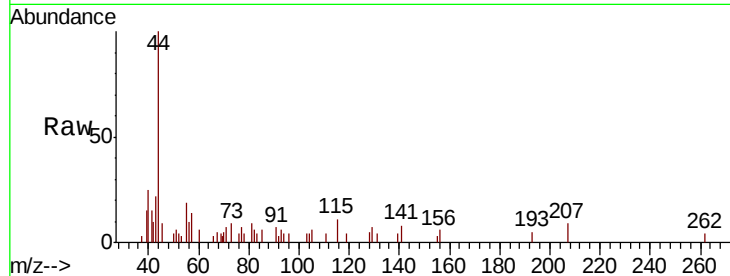




#84
 1,2,4-Trimethylbenzene
 Concen: 7.791 ug/l
 RT: 12.20 min Scan# 1173
 Delta R.T. -0.01 min
 Lab File: VF060602.D
 Acq: 6 Nov 2018 8:37

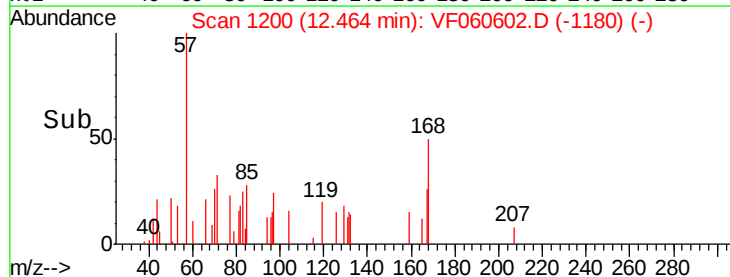
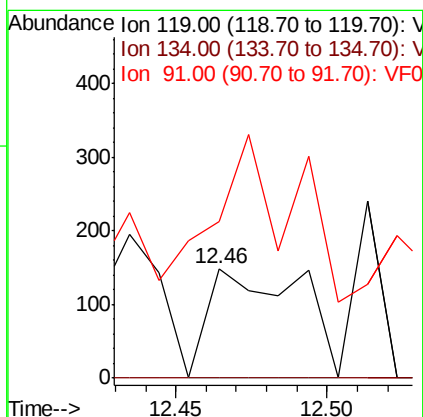
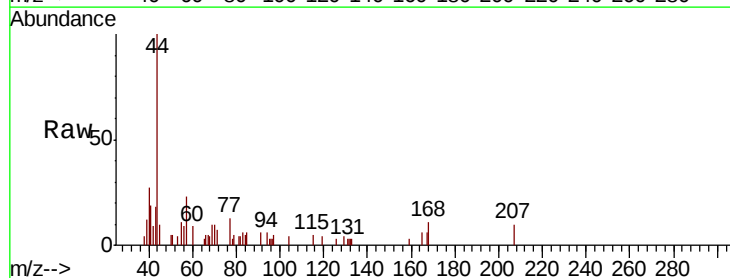
Instrument :
 MSVOA_F
 ClientSampleId :
 TP-11-S

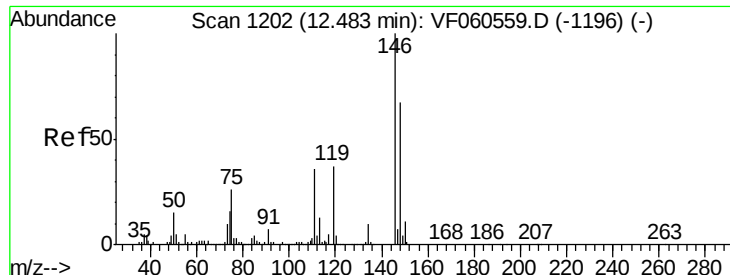
Tot Ion:105 Resp: 564
 Ion Ratio Lower Upper
 105 100
 120 0.0 25.6 76.8#



#86
 p-Isopropyltoluene
 Concen: 3.623 ug/l
 RT: 12.46 min Scan# 1200
 Delta R.T. 0.00 min
 Lab File: VF060602.D
 Acq: 6 Nov 2018 8:37

Tgt Ion:119 Resp: 310
 Ion Ratio Lower Upper
 119 100
 134 0.0 13.6 40.7#
 91 142.3 11.4 34.2#

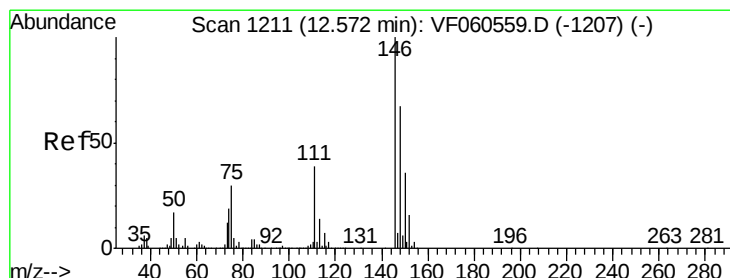
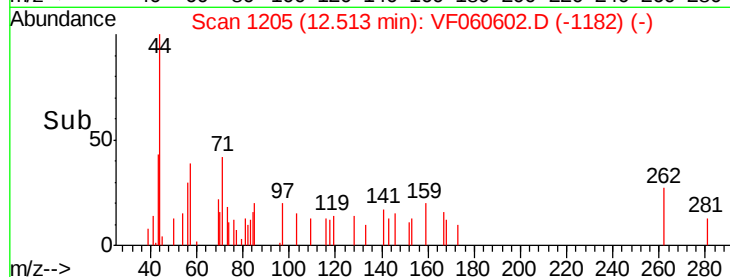
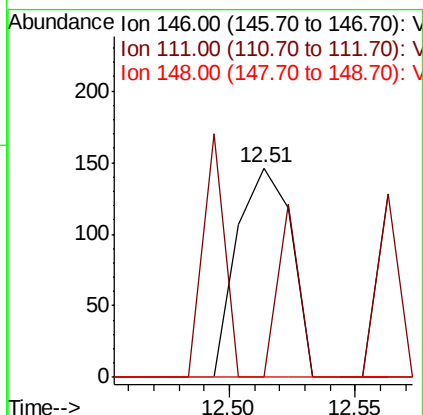
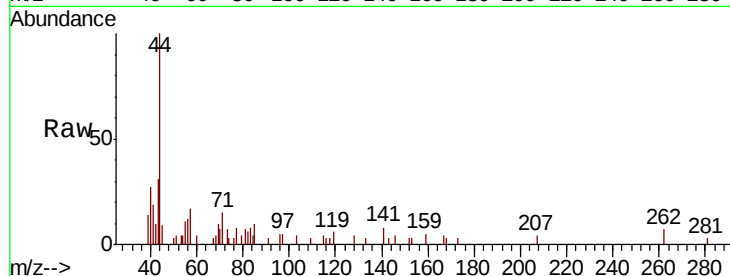




#87
 1,3-Dichlorobenzene
 Concen: 5.712 ug/l
 RT: 12.51 min Scan# 1205
 Delta R.T. 0.03 min
 Lab File: VF060602.D
 Acq: 6 Nov 2018 8:37

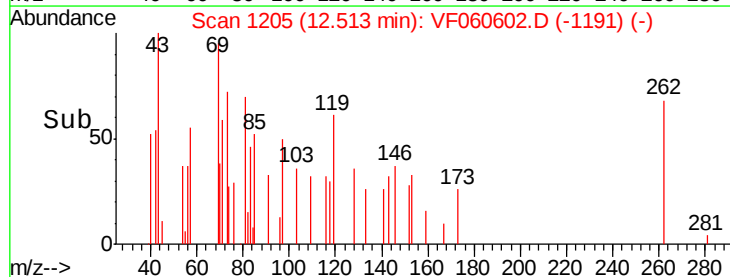
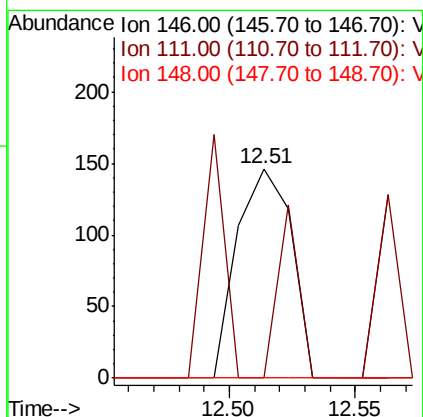
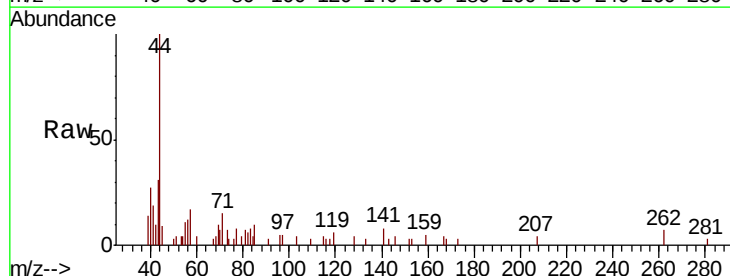
Instrument :
 MSVOA_F
 ClientSampleId :
 TP-11-S

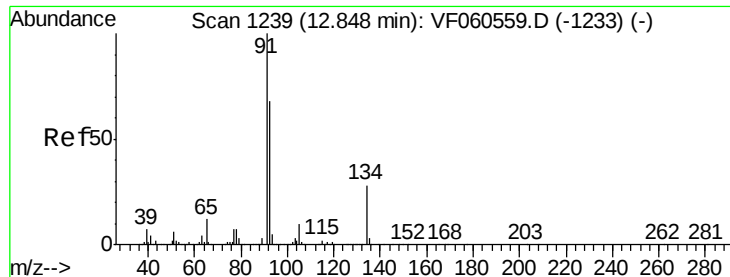
Tot Ion:146 Resp: 220
 Ion Ratio Lower Upper
 146 100
 111 0.0 18.3 54.8#
 148 0.0 33.5 100.4#



#88
 1,4-Dichlorobenzene
 Concen: 6.022 ug/l
 RT: 12.51 min Scan# 1205
 Delta R.T. -0.06 min
 Lab File: VF060602.D
 Acq: 6 Nov 2018 8:37

Tgt Ion:146 Resp: 220
 Ion Ratio Lower Upper
 146 100
 111 0.0 19.7 59.1#
 148 0.0 33.7 101.1#





#89

n-Butylbenzene

Concen: 8.487 ug/l

RT: 12.85 min Scan# 1239

Delta R.T. 0.00 min

Lab File: VF060602.D

Acq: 6 Nov 2018 8:37

Instrument :

MSVOA_F

ClientSampled :

TP-11-S

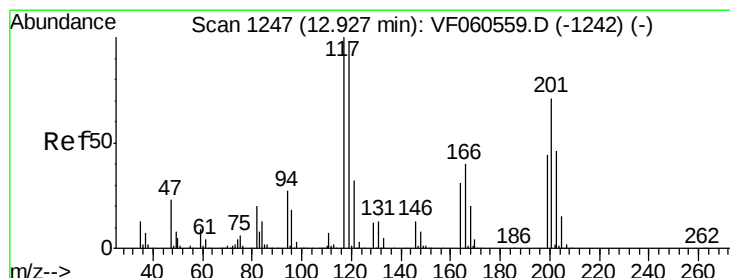
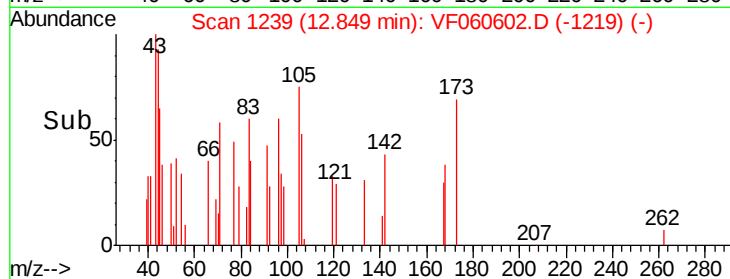
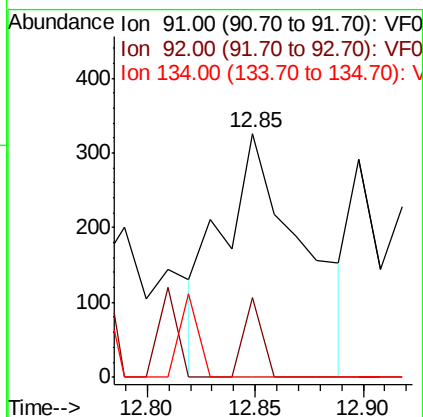
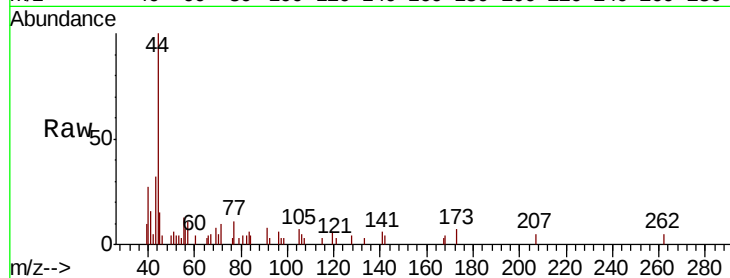
Tot Ion: 91 Resp: 842

Ion Ratio Lower Upper

91 100

92 32.8 34.1 102.2#

134 0.0 13.9 41.6#



#90

Hexachloroethane

Concen: 3.309 ug/l

RT: 12.94 min Scan# 1248

Delta R.T. 0.01 min

Lab File: VF060602.D

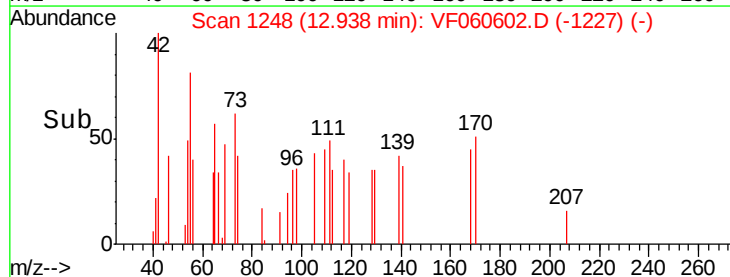
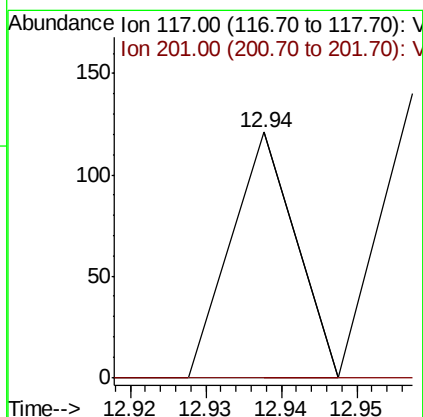
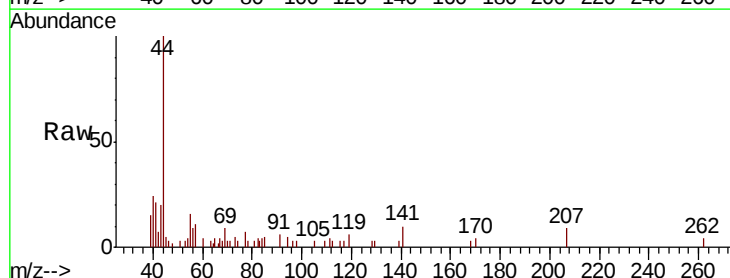
Acq: 6 Nov 2018 8:37

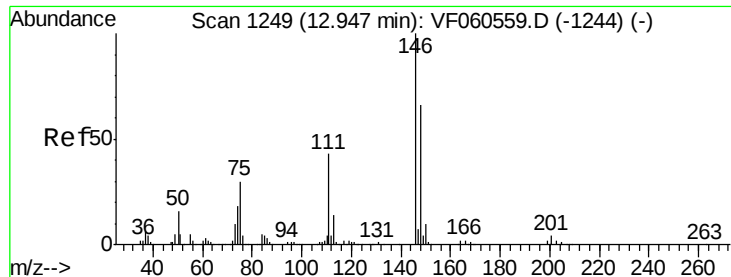
Tgt Ion: 117 Resp: 72

Ion Ratio Lower Upper

117 100

201 0.0 35.2 105.6#





#91

1,2-Dichlorobenzene

Concen: 2.248 ug/l

RT: 12.87 min Scan# 1241

Delta R.T. -0.08 min

Lab File: VF060602.D

Acq: 6 Nov 2018 8:37

Instrument :

MSVOA_F

ClientSampleId :

TP-11-S

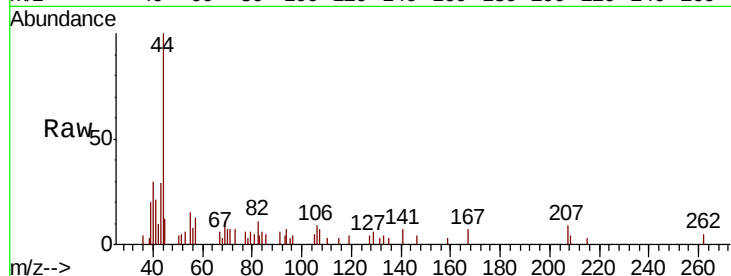
Tot Ion:146 Resp: 81

Ion Ratio Lower Upper

146 100

111 0.0 21.3 64.0#

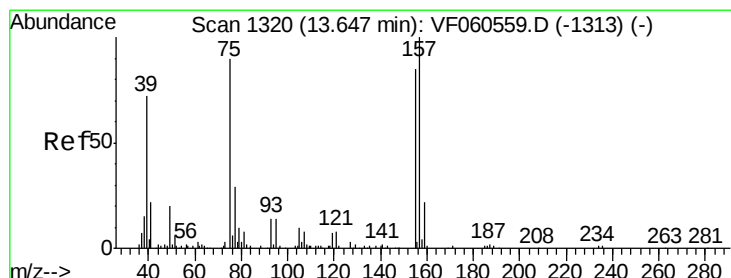
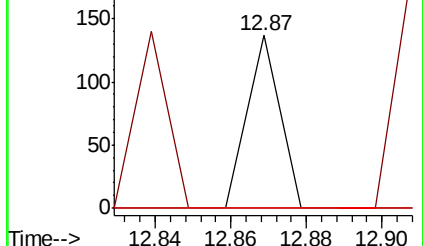
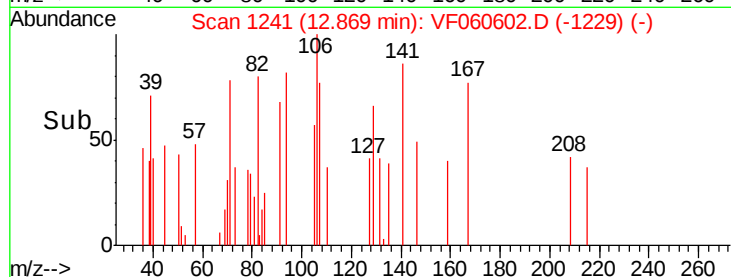
148 0.0 32.9 98.7#



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#92

1,2-Dibromo-3-Chloropropane

Concen: 22.503 ug/l

RT: 13.50 min Scan# 1305

Delta R.T. -0.15 min

Lab File: VF060602.D

Acq: 6 Nov 2018 8:37

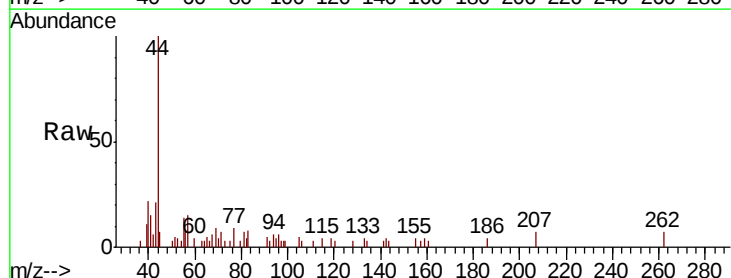
Tgt Ion: 75 Resp: 64

Ion Ratio Lower Upper

75 100

155 138.5 47.3 141.8

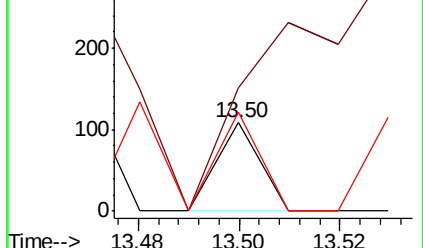
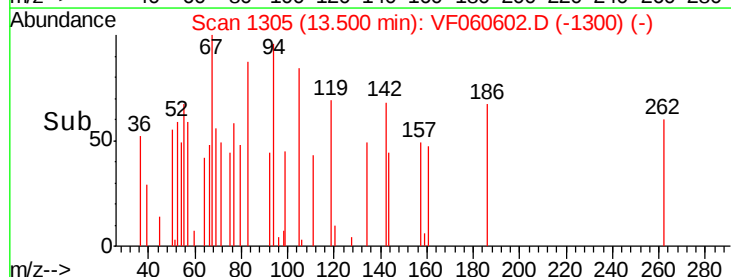
157 111.9 55.3 165.9

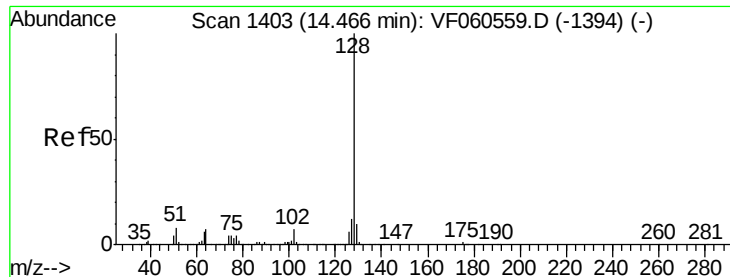


Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V





#95

Naphthalene

Concen: 13.531 ug/l

RT: 14.48 min Scan# 1404

Delta R.T. 0.01 min

Lab File: VF060602.D

Acq: 6 Nov 2018 8:37

Instrument :

MSVOA_F

ClientSampleID :

TP-11-S

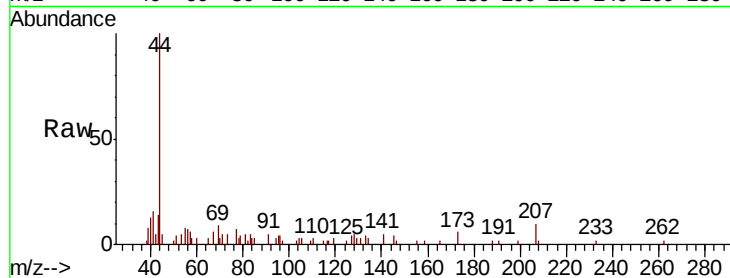
Tot Ion:128 Resp: 663

Ion Ratio Lower Upper

128 100

127 80.7 9.4 14.0#

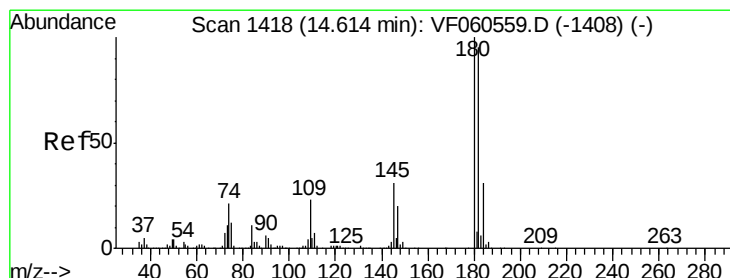
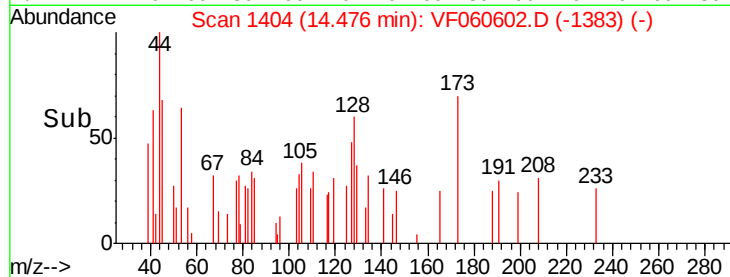
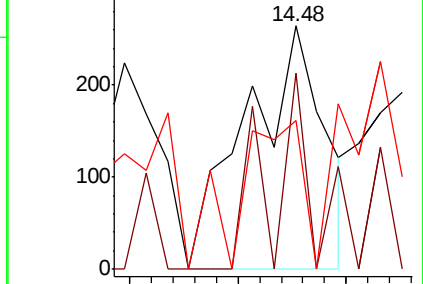
129 61.0 8.4 12.6#



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



#96

1,2,3-Trichlorobenzene

Concen: 2.638 ug/l

RT: 14.46 min Scan# 1402

Delta R.T. -0.16 min

Lab File: VF060602.D

Acq: 6 Nov 2018 8:37

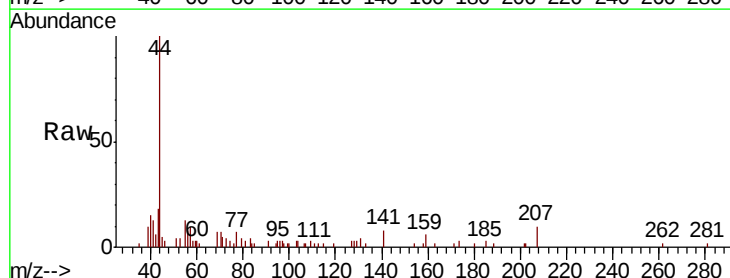
Tgt Ion:180 Resp: 61

Ion Ratio Lower Upper

180 100

182 0.0 47.3 142.0#

145 0.0 15.6 46.8#



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

