

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF122018\
 Data File : VF061106.D
 Acq On : 20 Dec 2018 14:19
 Operator : VA/AP
 Sample : J6377-04
 Misc : 4.60g/5mL/MSVOA-F/SOIL
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :

Quant Time: Dec 21 06:41:29 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F121918S.M
 Quant Title : SW846 8260
 QLast Update : Thu Dec 20 00:56:59 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.88	168	169739	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.61	114	255934	50.00	ug/l	0.02
63) Chlorobenzene-d5	9.79	117	162638	50.00	ug/l	0.02
72) 1,4-Dichlorobenzene-d4	12.67	152	1717	50.00	ug/l	0.12

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	4.85	65	89747	41.11	ug/l	0.00
Spiked Amount	50.000		Recovery	=	82.22%	
35) Dibromofluoromethane	4.12	113	95416	46.54	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.08%	
50) Toluene-d8	7.56	98	216371	37.24	ug/l	0.00
Spiked Amount	50.000		Recovery	=	74.48%	
62) 4-Bromofluorobenzene	11.42	95	68792	25.68	ug/l	0.00
Spiked Amount	50.000		Recovery	=	51.36%	

Target Compounds

					Qvalue	
11) Tert butyl alcohol	2.55	59	251	2.849	ug/l #	1
13) Acrolein	2.00	56	110604	1737.433	ug/l #	45
14) Allyl chloride	2.06	41	1180483	758.135	ug/l #	45
15) Acrylonitrile	2.95	53	365295	1793.140	ug/l #	43
16) Acetone	2.25	43	806133	1847.095	ug/l	94
18) Methyl Acetate	2.39	43	4460150	4939.578	ug/l #	66
19) Methyl tert-butyl Ether	2.39	73	4151	1.250	ug/l #	1
20) Methylene Chloride	2.26	84	3332	Below Cal	#	1
24) 1,1-Dichloroethane	2.95	63	61446	19.995	ug/l #	88
25) 2-Butanone	4.35	43	15924	22.498	ug/l #	67
27) cis-1,2-Dichloroethene	3.48	96	3605	1.471	ug/l	60
28) Bromochloromethane	3.70	49	4474	2.869	ug/l #	10
29) Tetrahydrofuran	4.02	42	117132	406.586	ug/l #	1
30) Chloroform	3.77	83	62297	13.520	ug/l #	1
31) Cyclohexane	3.70	56	745232	233.700	ug/l	99
37) Ethyl Acetate	4.02	43	547415	Below Cal	#	10
39) Methylcyclohexane	5.47	83	1576140	568.694	ug/l	96
40) Benzene	4.64	78	106377	16.012	ug/l	97
41) Methacrylonitrile	4.69	41	1413430	2166.414	ug/l #	50
43) Isopropyl Acetate	7.03	43	36565	24.513	ug/l #	45
48) Methyl methacrylate	6.82	41	136834	131.401	ug/l #	48
51) 4-Methyl-2-Pentanone	8.29	43	115819	113.213	ug/l #	44
52) Toluene	7.63	92	560147	127.373	ug/l	97
55) 1,1,2-Trichloroethane	8.40	97	26320	19.964	ug/l #	23
56) Ethyl methacrylate	8.64	69	62844	44.052	ug/l #	92
58) 2-Chloroethyl Vinyl ether	7.33	63	565	2.062	ug/l #	50
59) 2-Hexanone	9.54	43	4546	6.145	ug/l #	43
65) Chlorobenzene	9.82	112	3331053	991.421	ug/l	91
67) Ethyl Benzene	9.93	91	6476092	1058.000	ug/l #	85
68) m/p-Xylenes	10.25	106	17163367	7967.594	ug/l #	44
69) o-Xylene	10.76	106	3811132	1595.214	ug/l	62
70) Styrene	10.76	104	208644	74.014	ug/l #	1
73) Isopropylbenzene	11.13	105	596422	4030.887	ug/l	99
74) N-ethyl acetate	11.40	43	10616	323.163	ug/l #	57

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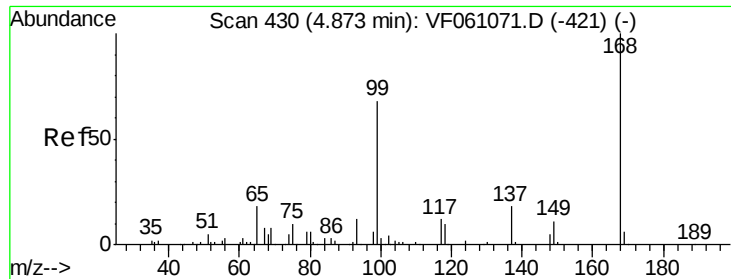
Instrument :
 MSVOA_F
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

75) 1,1,2,2-Tetrachloroethane	11.69	83	15456	629.392	uq/l #	84
76) 1,2,3-Trichloropropane	11.83	75	16155	883.985	uq/l #	1
77) Bromobenzene	11.50	156	131	4.113	uq/l #	1
78) n-propylbenzene	11.61	91	770596	Below Cal		99
79) 2-Chlorotoluene	11.72	91	419792	4135.775	uq/l #	42
80) 1,3,5-Trimethylbenzene	11.83	105	1407470	11552.141	uq/l	96
81) trans-1,4-Dichloro-2-buten	11.83	75	16451	2094.857	uq/l #	1
82) 4-Chlorotoluene	11.91	91	16999	161.893	uq/l	75
83) tert-Butylbenzene	12.14	119	28800	229.715	uq/l #	57
84) 1,2,4-Trimethylbenzene	12.22	105	3566086	29351.250	uq/l	88
85) sec-Butylbenzene	12.32	105	129806	793.376	uq/l #	78
86) p-Isopropyltoluene	12.44	119	237706	1750.333	uq/l	96
87) 1,3-Dichlorobenzene	12.48	146	362209	7802.206	uq/l	98
88) 1,4-Dichlorobenzene	12.58	146	2685706	45919.709	uq/l	81
89) n-Butylbenzene	12.85	91	263974	Below Cal	#	76
90) Hexachloroethane	12.94	117	6120	182.399	uq/l #	27
91) 1,2-Dichlorobenzene	12.95	146	30922	543.045	uq/l	90
92) 1,2-Dibromo-3-Chloropropan	13.62	75	1185	262.966	uq/l #	12
93) 1,2,4-Trichlorobenzene	14.20	180	977	24.193	uq/l #	19
95) Naphthalene	14.46	128	353733	4796.993	uq/l	97
96) 1,2,3-Trichlorobenzene	14.61	180	1692	45.323	uq/l #	16

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.88 min Scan# 431

Delta R.T. 0.01 min

Lab File: VF061106.D

Acq: 20 Dec 2018 14:19

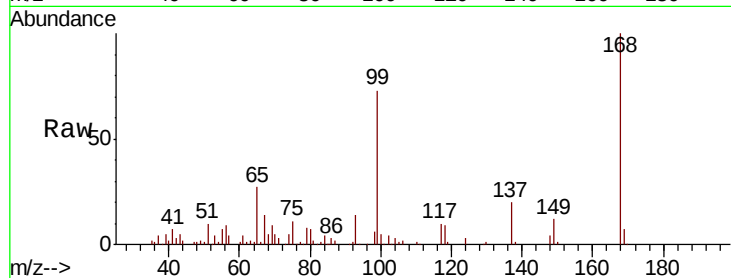
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:168 Resp: 169739

Ion Ratio Lower Upper

168 100

99 73.0 54.4 81.6

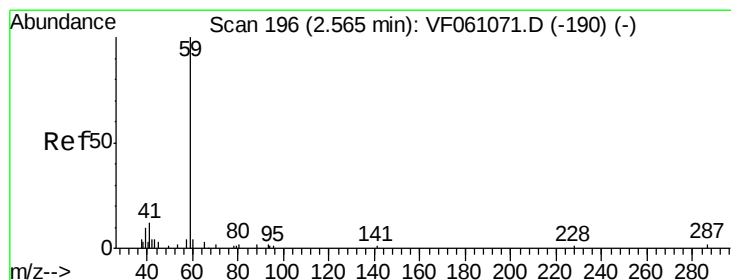
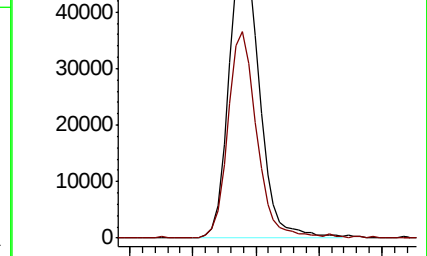
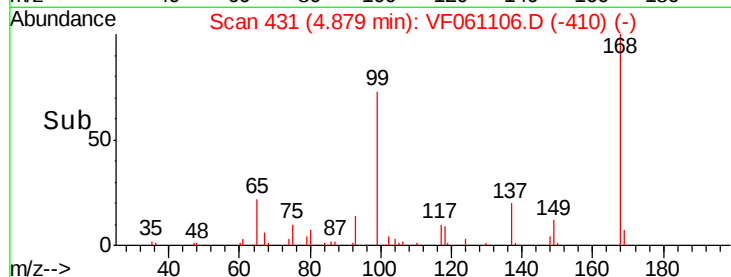


Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.88

Time-->



#11

Tert butyl alcohol

Concen: 2.849 ug/l

RT: 2.55 min Scan# 195

Delta R.T. -0.01 min

Lab File: VF061106.D

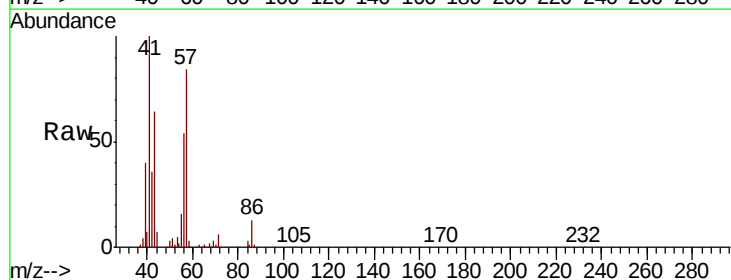
Acq: 20 Dec 2018 14:19

Tgt Ion: 59 Resp: 251

Ion Ratio Lower Upper

59 100

57 18690.9 11.5 17.3#

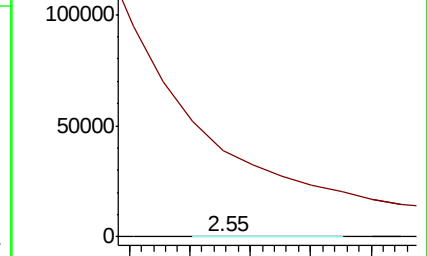
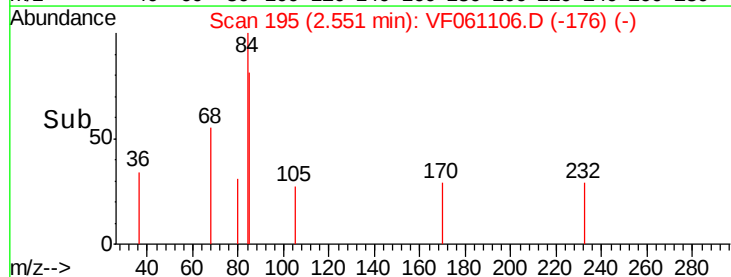


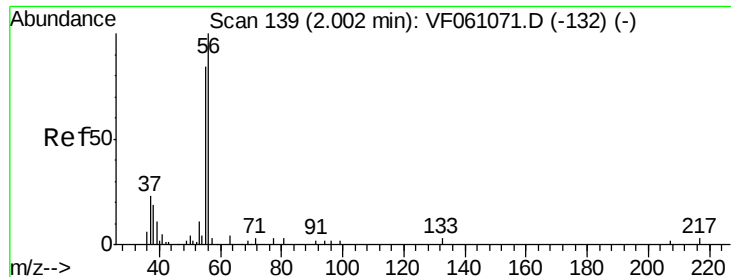
Abundance Ion 59.00 (58.70 to 59.70): VF0

Ion 57.00 (56.70 to 57.70): VF0

2.55

Time-->

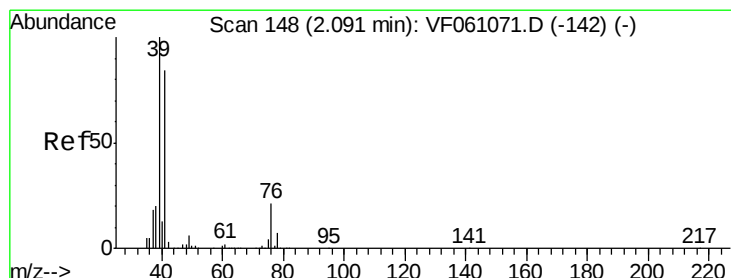
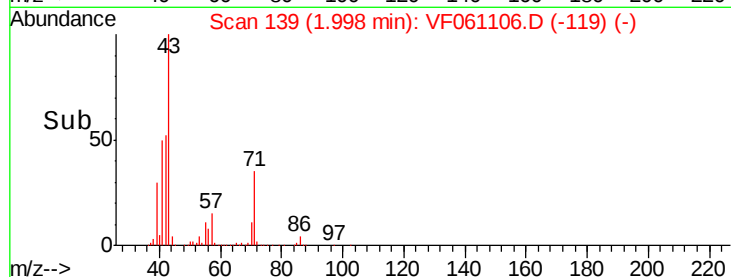
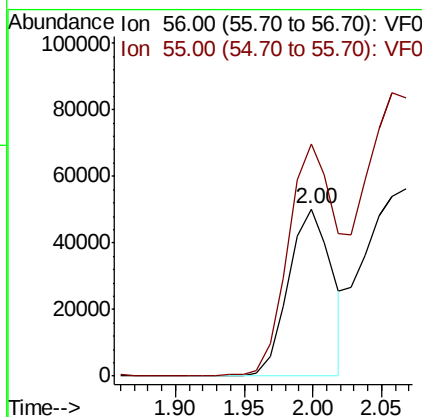
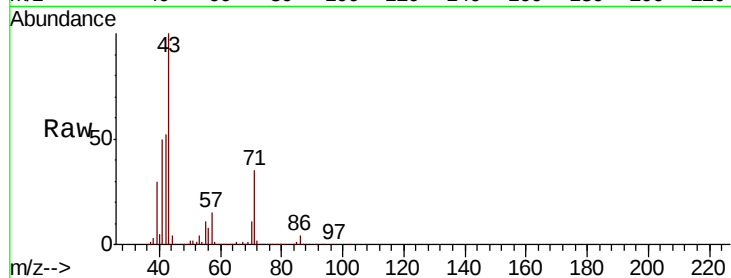




#13
Acrolein
Concen: 1737.433 ug/l
RT: 2.00 min Scan# 139
Delta R.T. -0.00 min
Lab File: VF061106.D
Acq: 20 Dec 2018 14:19

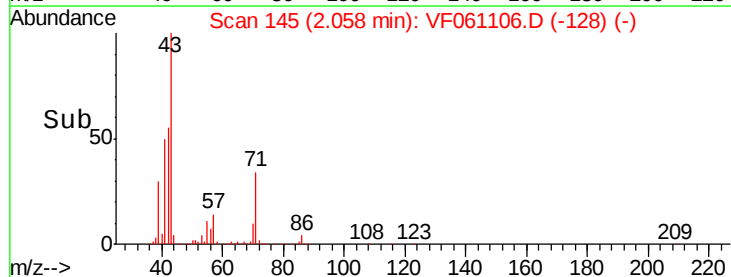
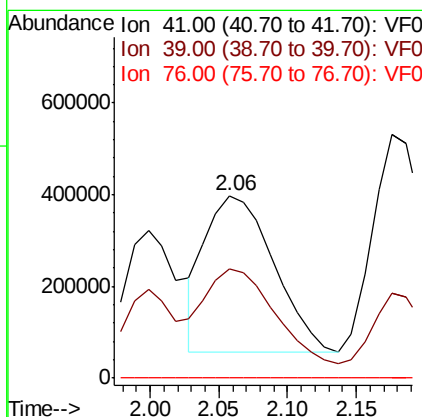
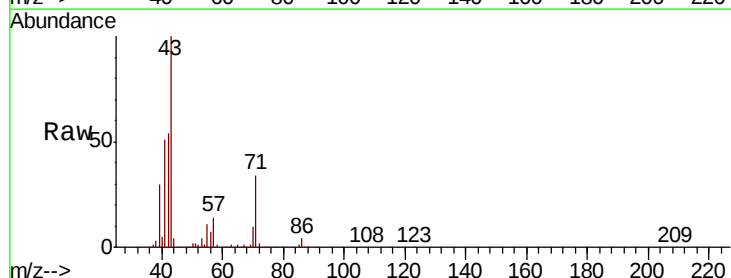
Instrument :
MSVOA_F
ClientSampleId :

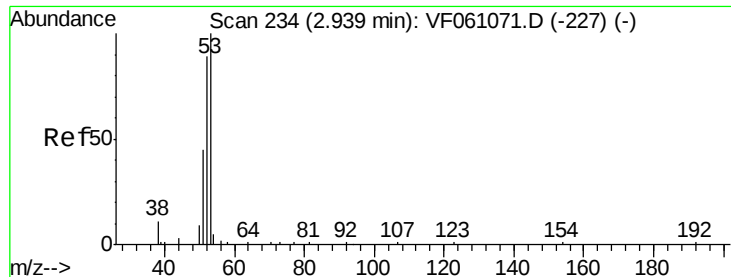
Tot Ion: 56 Resp: 110604
Ion Ratio Lower Upper
56 100
55 138.7 70.2 105.2#



#14
Allyl chloride
Concen: 758.135 ug/l
RT: 2.06 min Scan# 145
Delta R.T. -0.03 min
Lab File: VF061106.D
Acq: 20 Dec 2018 14:19

Tgt Ion: 41 Resp: 1180483
Ion Ratio Lower Upper
41 100
39 59.8 96.4 144.6#
76 0.0 25.4 38.0#





#15

Acrylonitrile

Concen: 1793.140 ug/l

RT: 2.95 min Scan# 235

Delta R.T. 0.01 min

Lab File: VF061106.D

Acq: 20 Dec 2018 14:19

Instrument :
MSVOA_F
ClientSampleId :

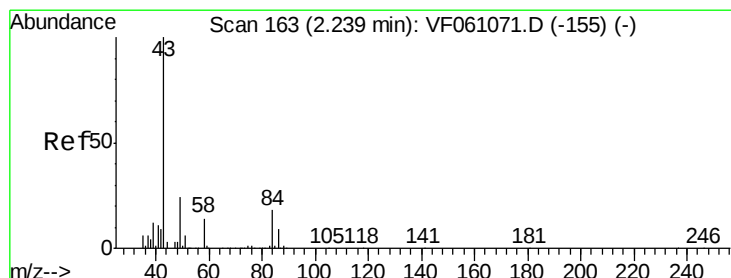
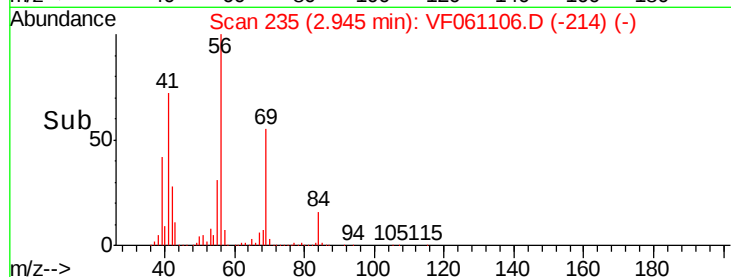
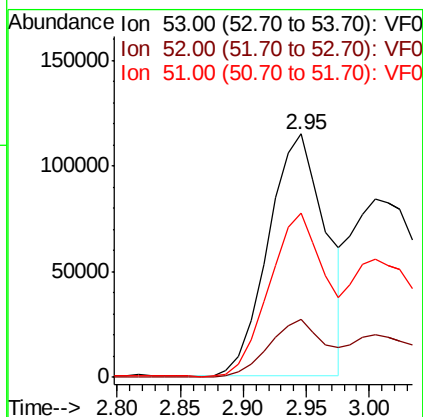
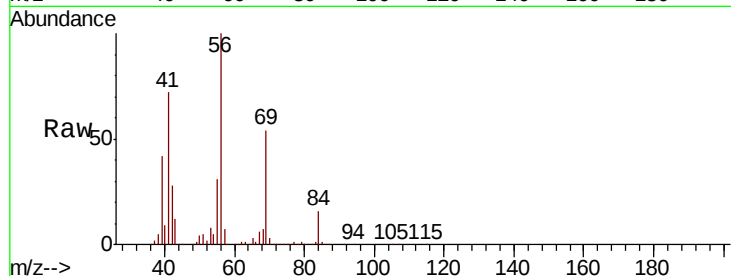
Tot Ion: 53 Resp: 365295

Ion Ratio Lower Upper

53 100

52 23.8 71.3 106.9#

51 67.2 36.8 55.2#



#16

Acetone

Concen: 1847.095 ug/l

RT: 2.25 min Scan# 164

Delta R.T. 0.01 min

Lab File: VF061106.D

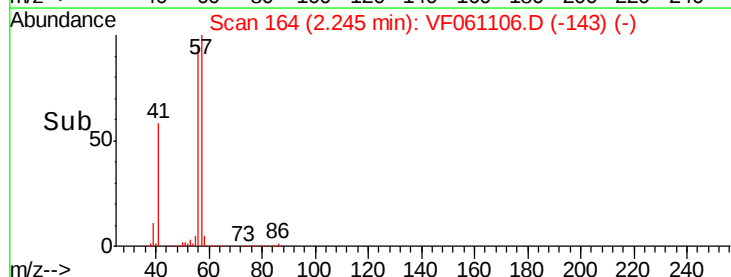
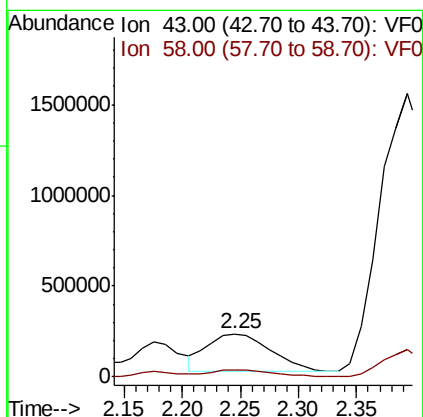
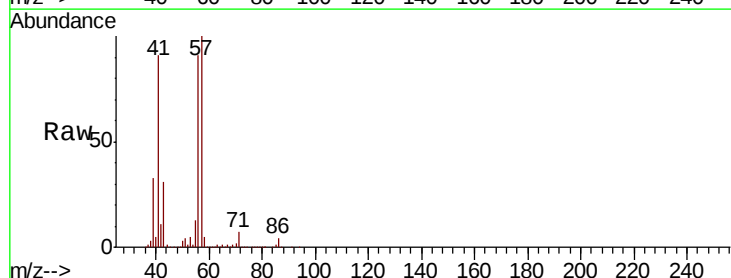
Acq: 20 Dec 2018 14:19

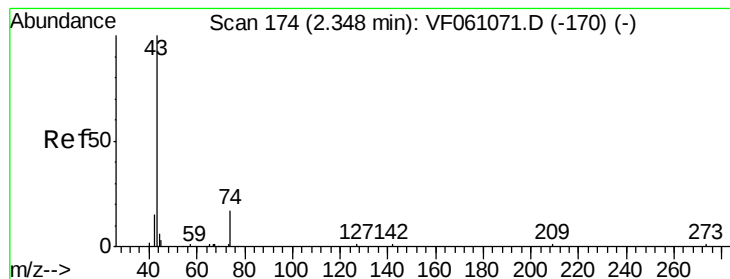
Tgt Ion: 43 Resp: 806133

Ion Ratio Lower Upper

43 100

58 16.3 11.1 16.7





#18

Methyl Acetate

Concen: 4939.578 ug/l

RT: 2.39 min Scan# 179

Delta R.T. 0.05 min

Lab File: VF061106.D

Acq: 20 Dec 2018 14:19

Instrument :

MSVOA_F

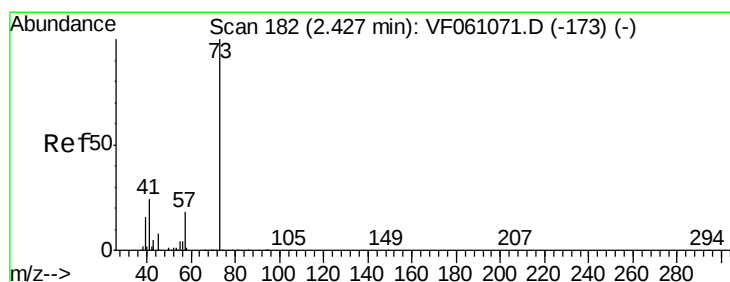
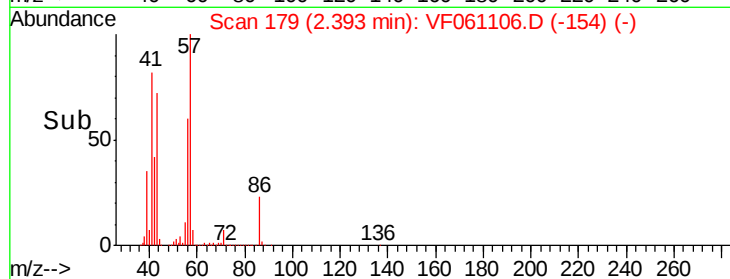
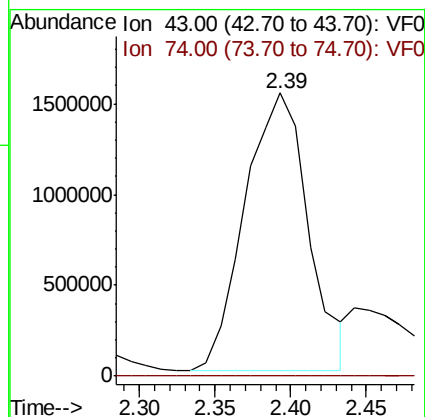
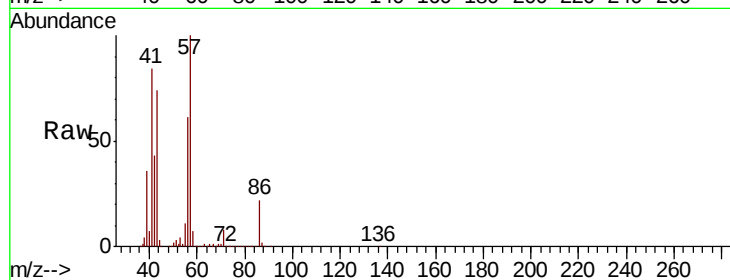
ClientSampleId :

Tot Ion: 43 Resp: 4460150

Ion Ratio Lower Upper

43 100

74 0.2 11.0 16.6#



#19

Methyl tert-butyl Ether

Concen: 1.250 ug/l

RT: 2.39 min Scan# 179

Delta R.T. -0.03 min

Lab File: VF061106.D

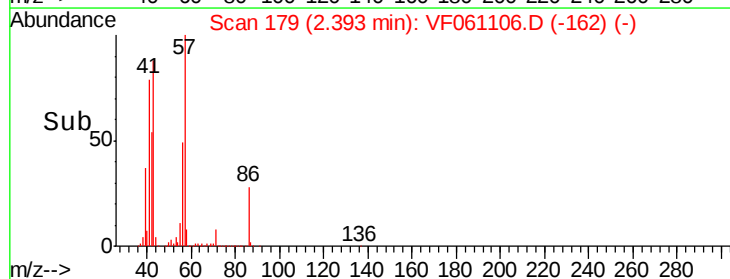
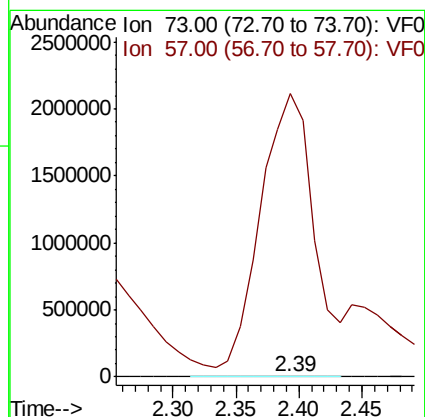
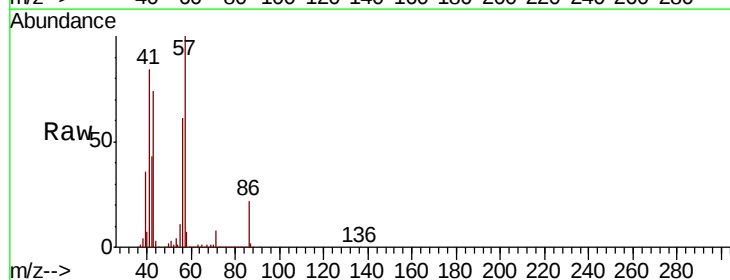
Acq: 20 Dec 2018 14:19

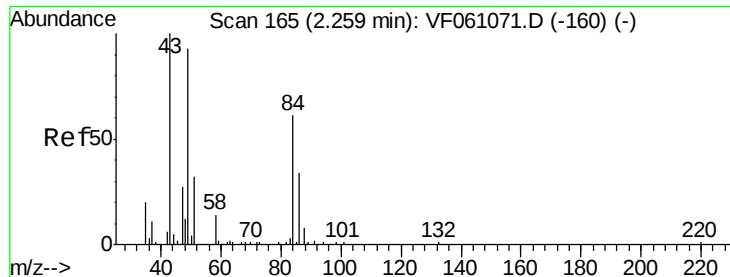
Tgt Ion: 73 Resp: 4151

Ion Ratio Lower Upper

73 100

57 172690.1 14.5 21.7#

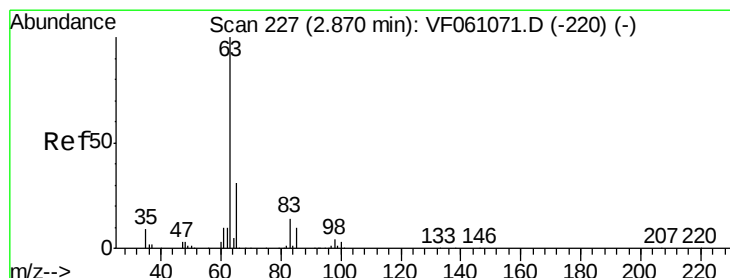
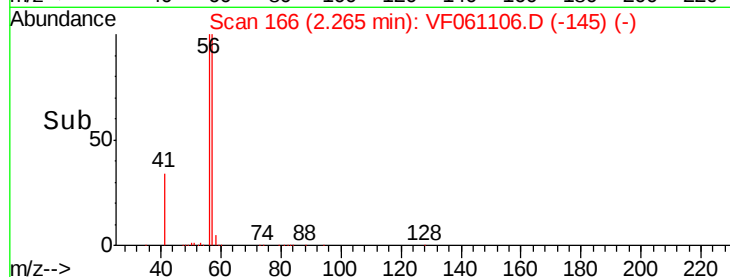
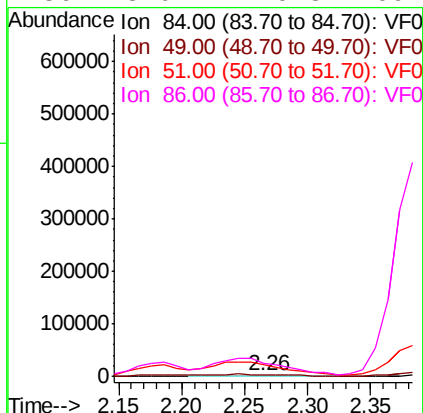
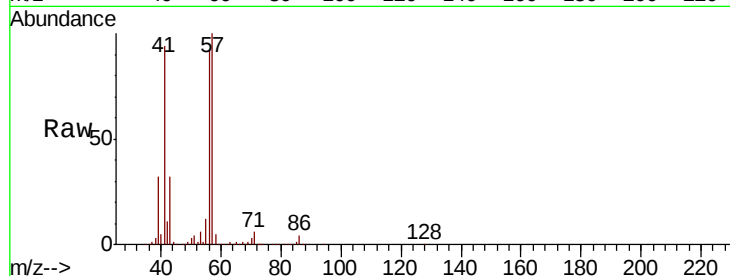




#20
Methvlene Chloride
Concen: Below Cal
RT: 2.26 min Scan# 166
Delta R.T. 0.01 min
Lab File: VF061106.D
Acq: 20 Dec 2018 14:19

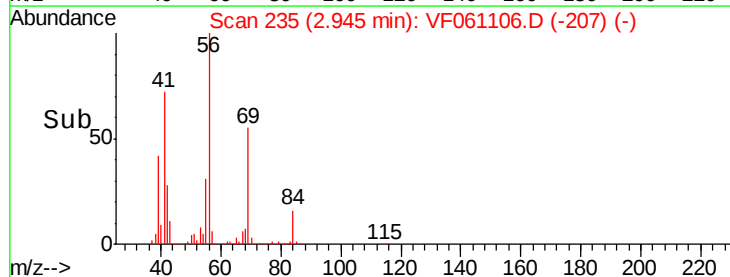
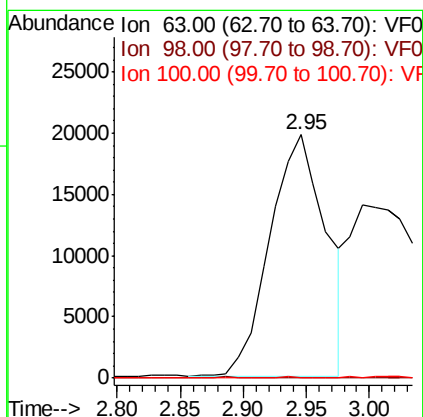
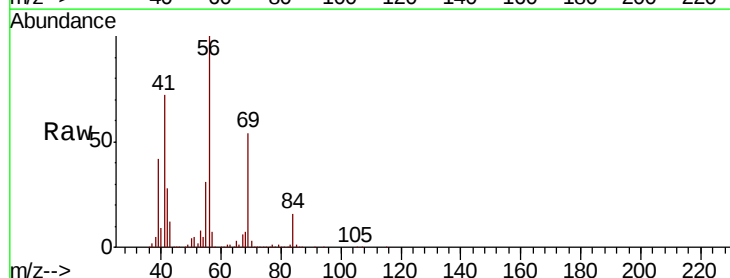
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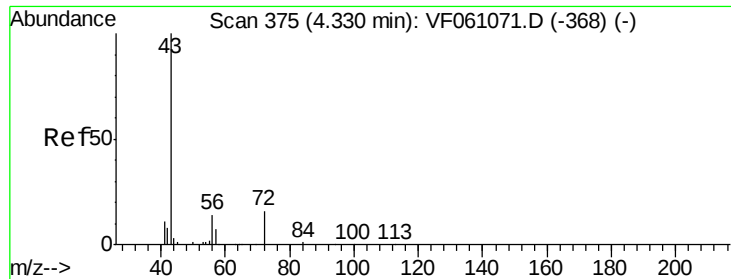
Tot Ion: 84 Resp: 3332
Ion Ratio Lower Upper
84 100
49 292.0 129.4 194.2#
51 2118.6 44.0 66.0#
86 2379.4 46.3 69.5#



#24
1,1-Dichloroethane
Concen: 19.995 ug/l
RT: 2.95 min Scan# 235
Delta R.T. 0.08 min
Lab File: VF061106.D
Acq: 20 Dec 2018 14:19

Tgt Ion: 63 Resp: 61446
Ion Ratio Lower Upper
63 100
98 0.0 2.1 6.5#
100 0.0 1.7 5.1#





#25

2-Butanone

Concen: 22.498 ug/l

RT: 4.35 min Scan# 377

Delta R.T. 0.02 min

Lab File: VF061106.D

Acq: 20 Dec 2018 14:19

Instrument :

MSVOA_F

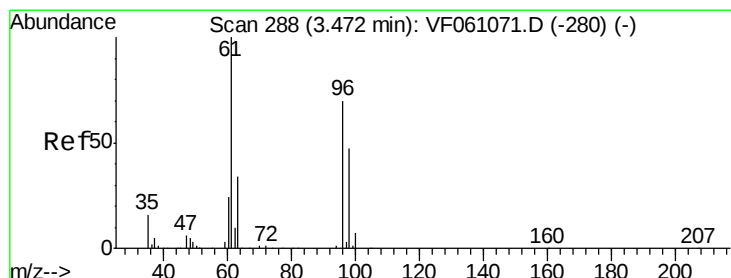
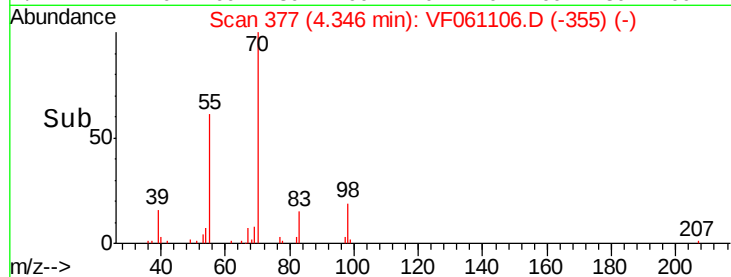
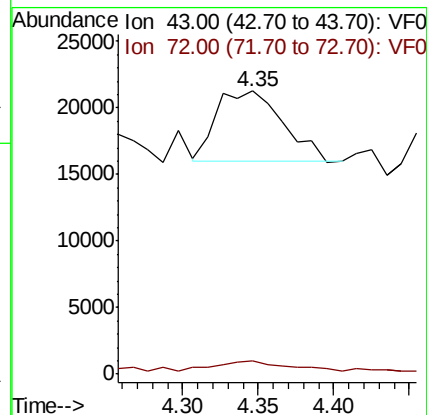
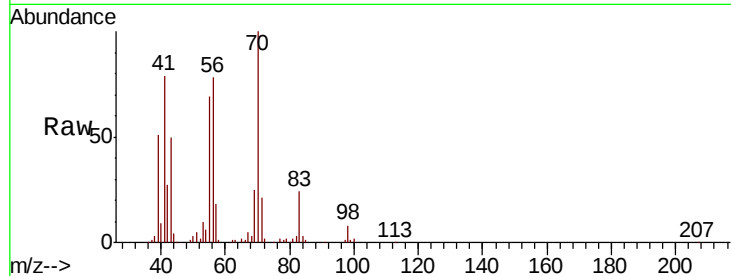
ClientSampleId :

Tot Ion: 43 Resp: 15924

Ion Ratio Lower Upper

43 100

72 4.6 15.6 23.4#



#27

cis-1,2-Dichloroethene

Concen: 1.471 ug/l

RT: 3.48 min Scan# 289

Delta R.T. 0.01 min

Lab File: VF061106.D

Acq: 20 Dec 2018 14:19

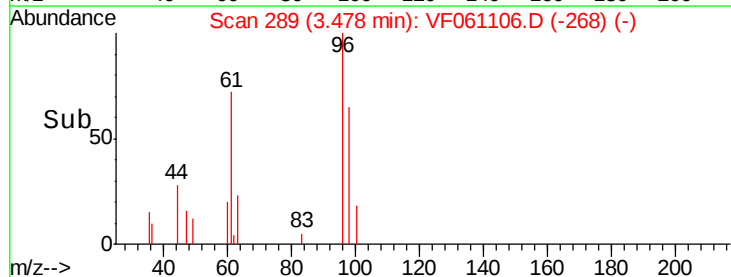
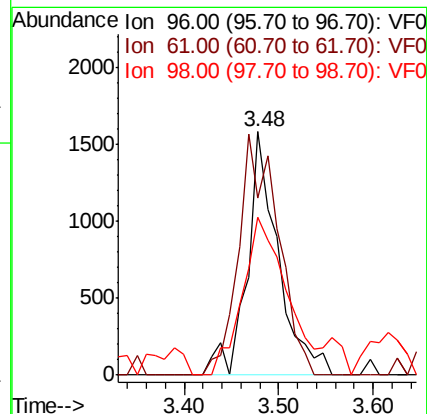
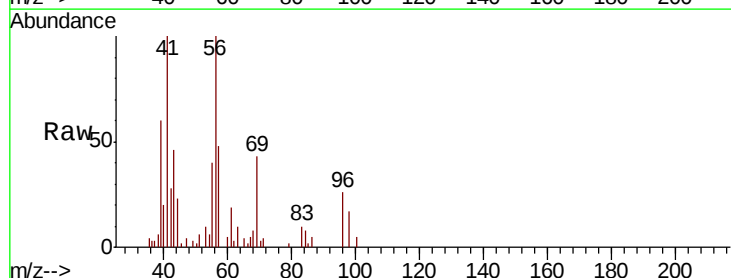
Tgt Ion: 96 Resp: 3605

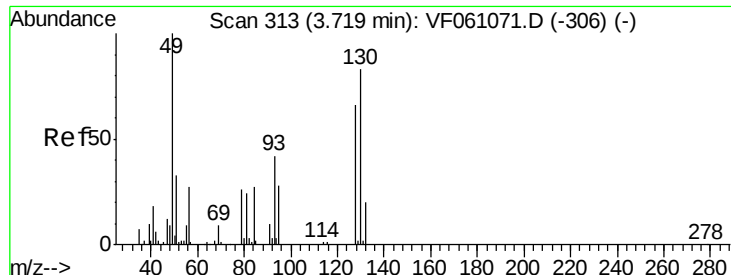
Ion Ratio Lower Upper

96 100

61 72.5 0.0 287.8

98 64.6 0.0 134.2





#28

Bromochloromethane

Concen: 2.869 ug/l

RT: 3.70 min Scan# 311

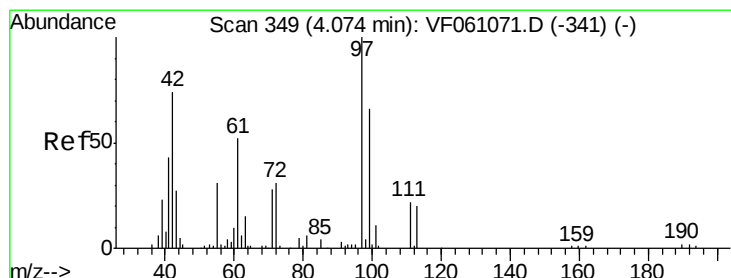
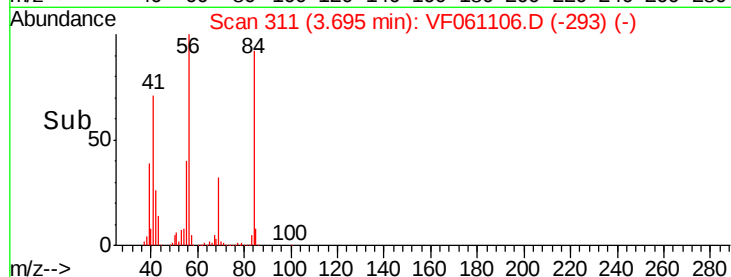
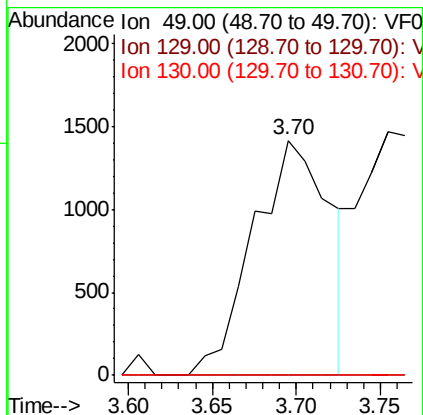
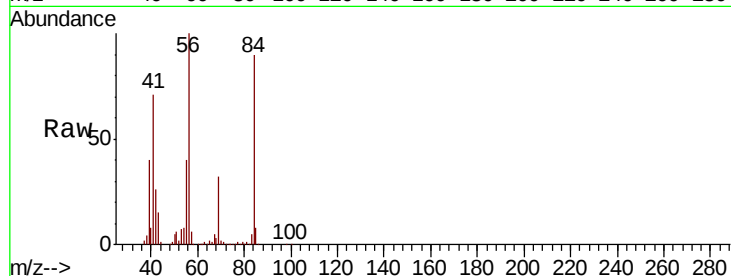
Delta R.T. -0.02 min

Lab File: VF061106.D

Acq: 20 Dec 2018 14:19

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 49 Resp: 4474
Ion Ratio Lower Upper
49 100
129 0.0 0.0 3.6
130 0.0 65.8 98.6#



#29

Tetrahydrofuran

Concen: 406.586 ug/l

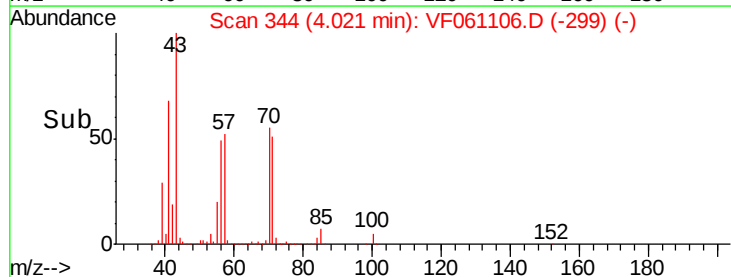
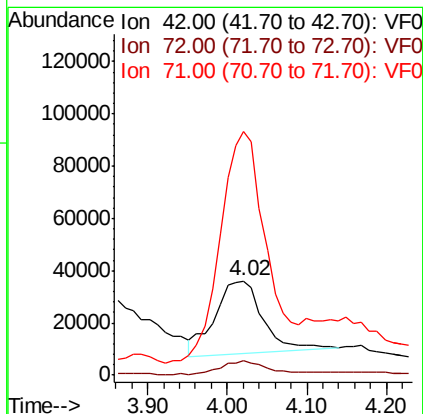
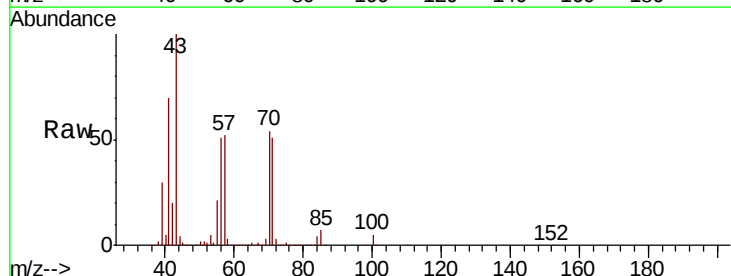
RT: 4.02 min Scan# 344

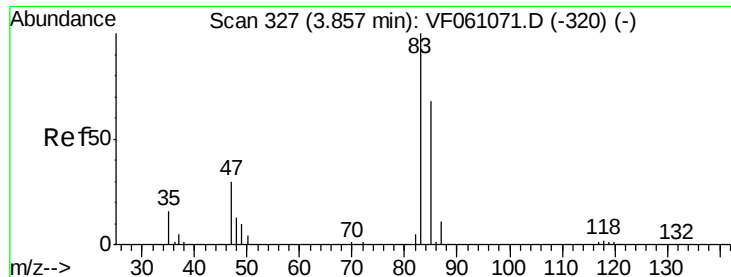
Delta R.T. -0.05 min

Lab File: VF061106.D

Acq: 20 Dec 2018 14:19

Tgt Ion: 42 Resp: 117132
Ion Ratio Lower Upper
42 100
72 17.3 31.8 47.8#
71 307.0 29.7 44.5#

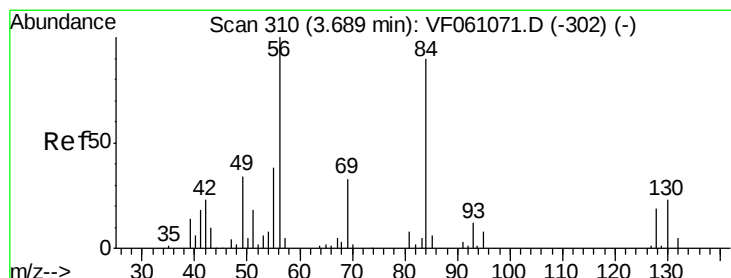
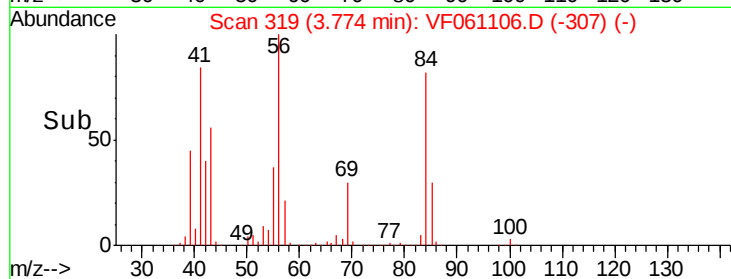
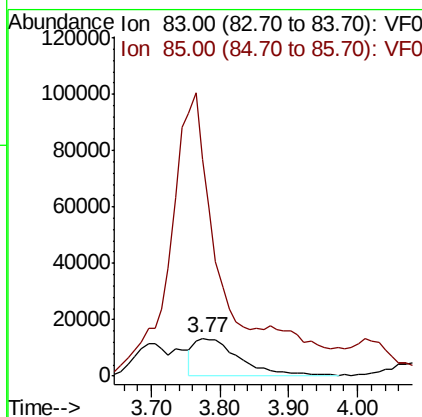
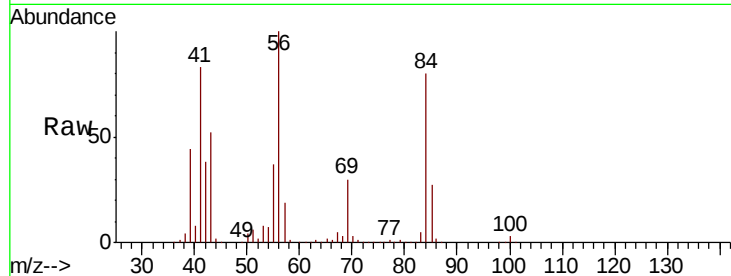




#30
Chloroform
Concen: 13.520 ug/l
RT: 3.77 min Scan# 319
Delta R.T. -0.08 min
Lab File: VF061106.D
Acq: 20 Dec 2018 14:19

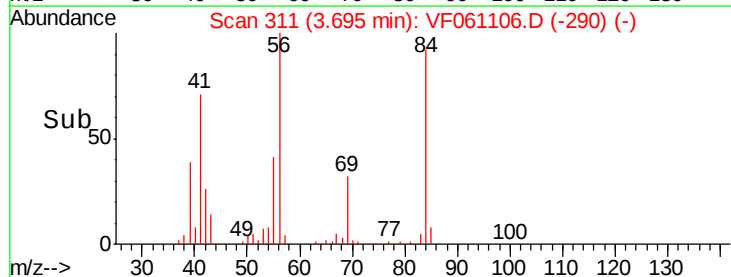
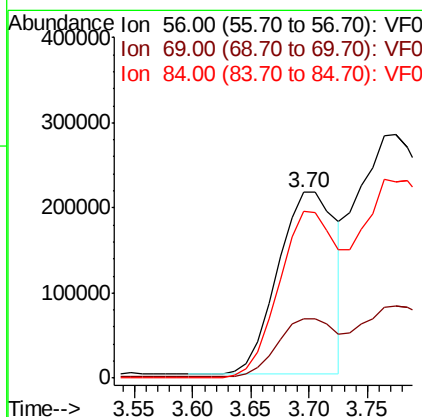
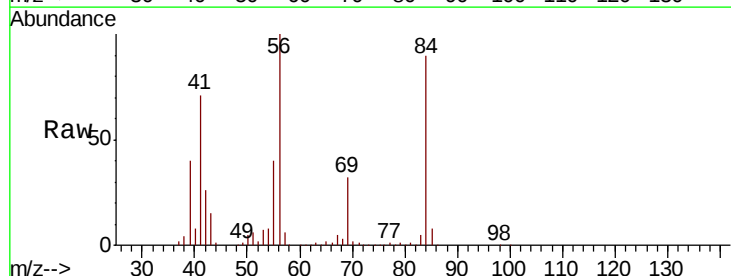
Instrument :
MSVOA_F
ClientSampleId :

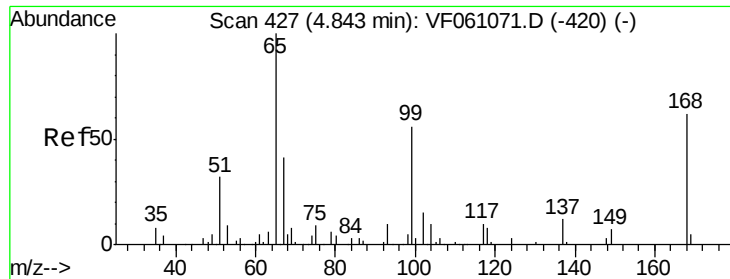
Tot Ion: 83 Resp: 62297
Ion Ratio Lower Upper
83 100
85 573.1 54.5 81.7#



#31
Cyclohexane
Concen: 233.700 ug/l
RT: 3.70 min Scan# 311
Delta R.T. 0.01 min
Lab File: VF061106.D
Acq: 20 Dec 2018 14:19

Tgt Ion: 56 Resp: 745232
Ion Ratio Lower Upper
56 100
69 31.8 26.0 39.0
84 89.8 71.4 107.2





#33

1,2-Dichloroethane-d4

Concen: 41.109 ug/l

RT: 4.85 min Scan# 428

Delta R.T. 0.01 min

Lab File: VF061106.D

Acq: 20 Dec 2018 14:19

Instrument :

MSVOA_F

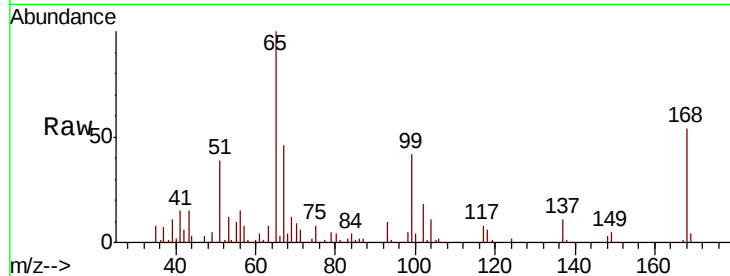
ClientSampleId :

Tot Ion: 65 Resp: 89747

Ion Ratio Lower Upper

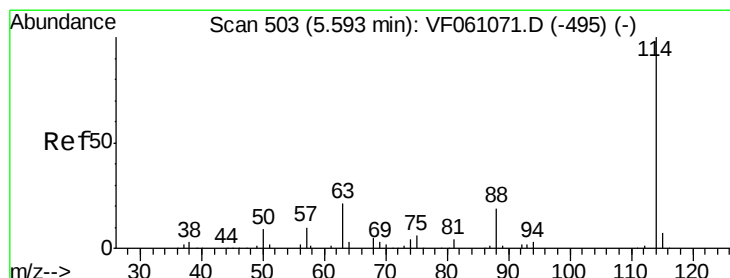
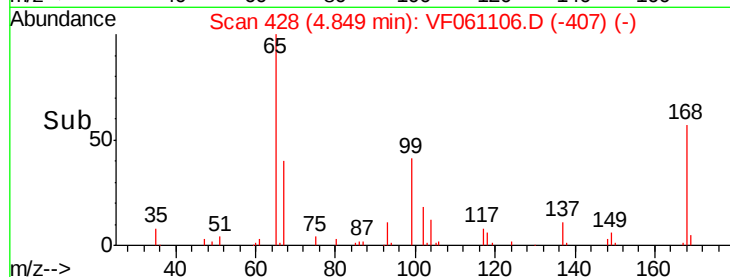
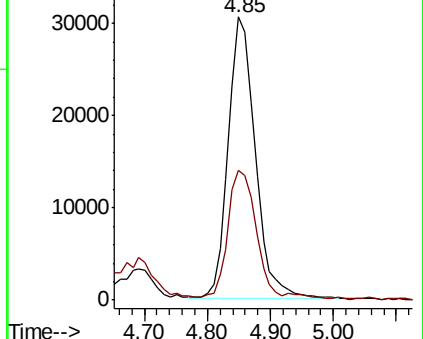
65 100

67 45.7 0.0 94.6



Abundance Ion 65.00 (64.70 to 65.70): VF0

Ion 67.00 (66.70 to 67.70): VF0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.61 min Scan# 505

Delta R.T. 0.02 min

Lab File: VF061106.D

Acq: 20 Dec 2018 14:19

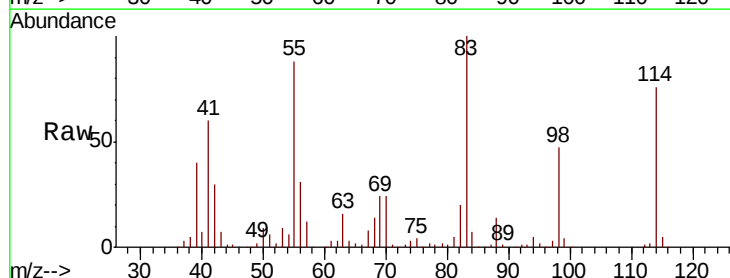
Tgt Ion: 114 Resp: 255934

Ion Ratio Lower Upper

114 100

63 21.6 0.0 41.6

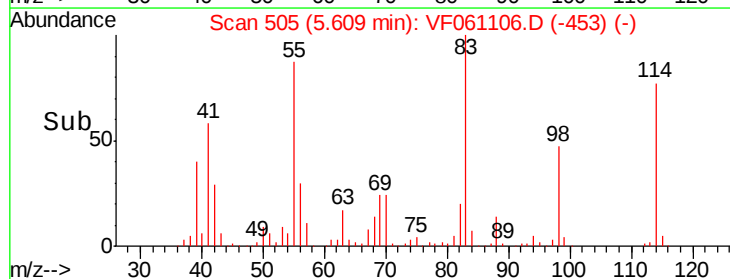
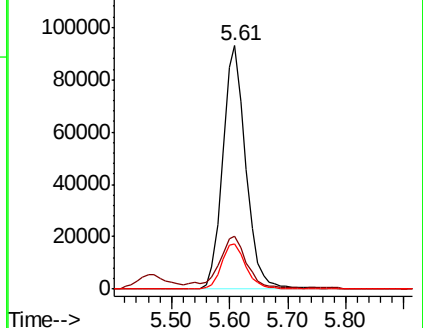
88 18.4 0.0 38.0

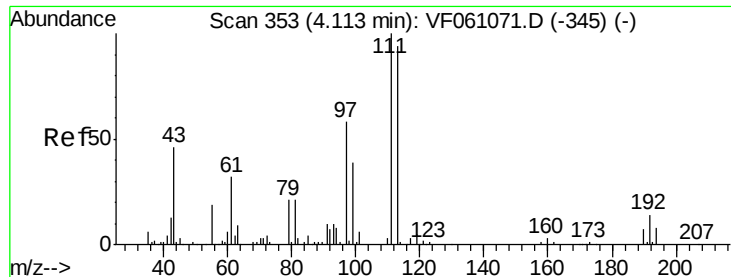


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VF0

Ion 88.00 (87.70 to 88.70): VF0

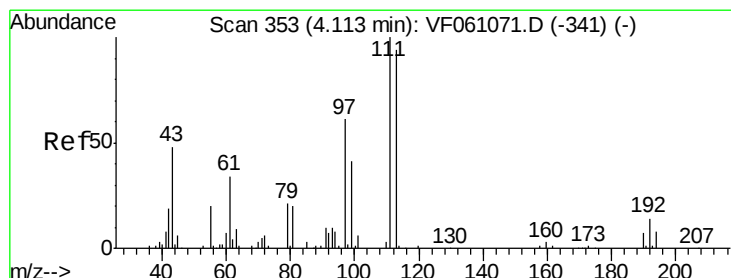
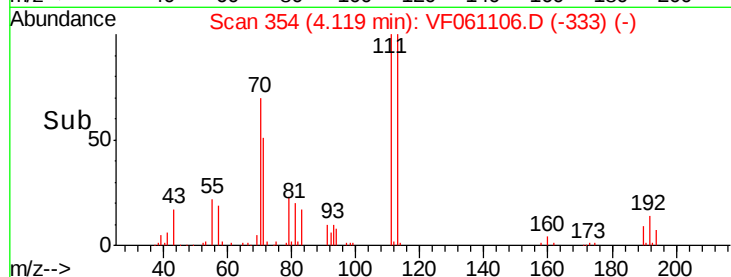
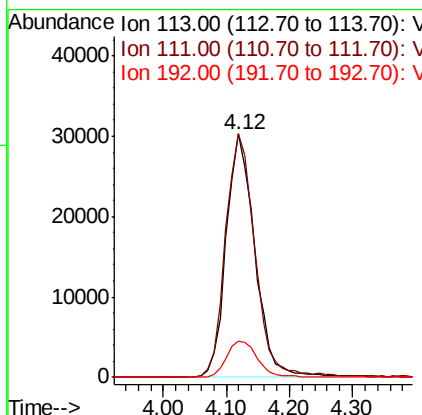
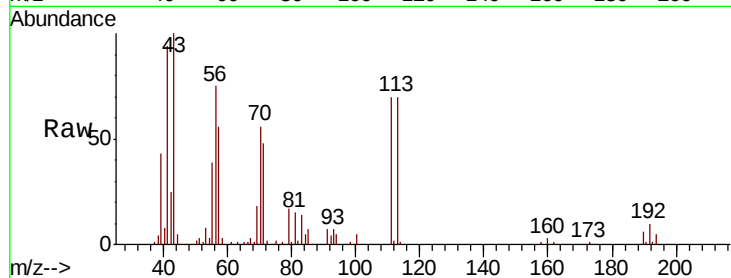




#35
Dibromofluoromethane
Concen: 46.540 ug/l
RT: 4.12 min Scan# 354
Delta R.T. 0.01 min
Lab File: VF061106.D
Acq: 20 Dec 2018 14:19

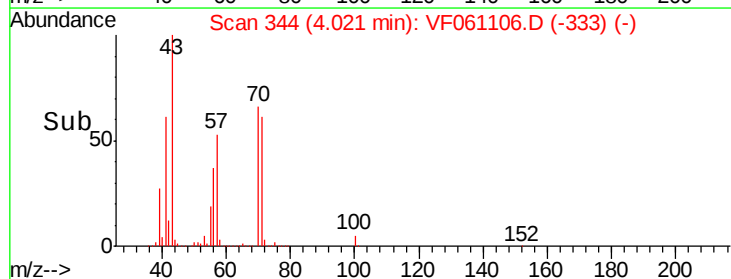
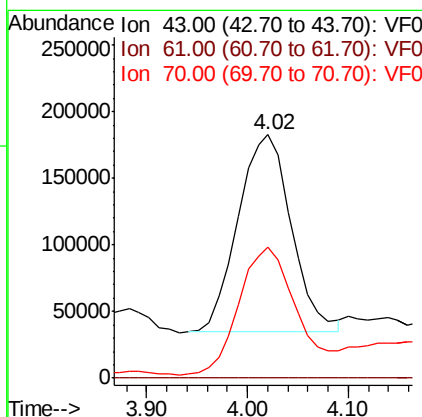
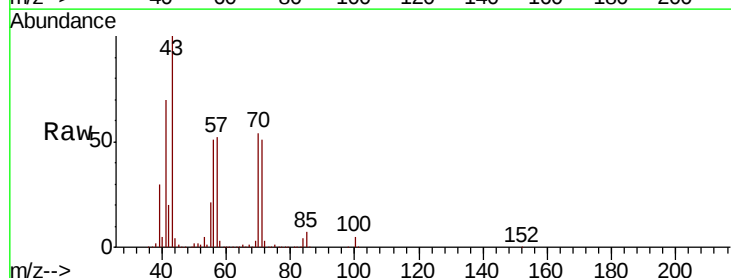
Instrument :
MSVOA_F
ClientSampleId :

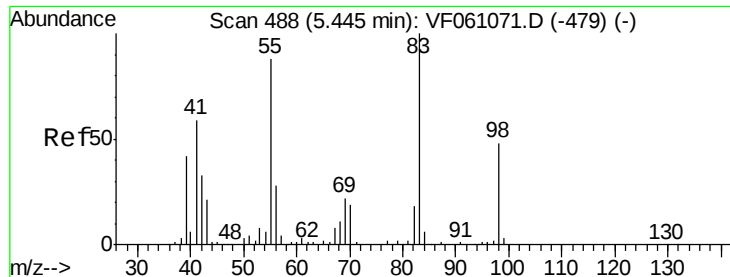
Tot Ion:113 Resp: 95416
Ion Ratio Lower Upper
113 100
111 100.2 85.2 127.8
192 14.7 12.8 19.2



#37
Ethyl Acetate
Concen: Below Cal
RT: 4.02 min Scan# 344
Delta R.T. -0.09 min
Lab File: VF061106.D
Acq: 20 Dec 2018 14:19

Tgt Ion: 43 Resp: 547415
Ion Ratio Lower Upper
43 100
61 0.2 56.6 84.8#
70 54.0 6.3 9.5#

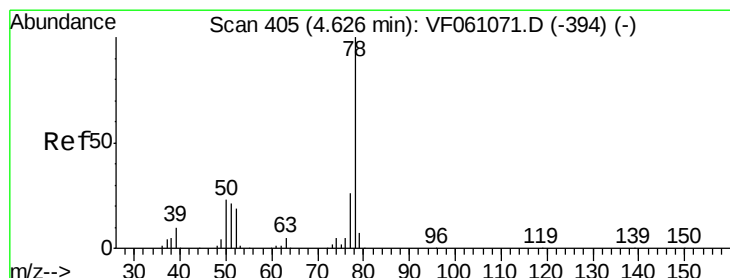
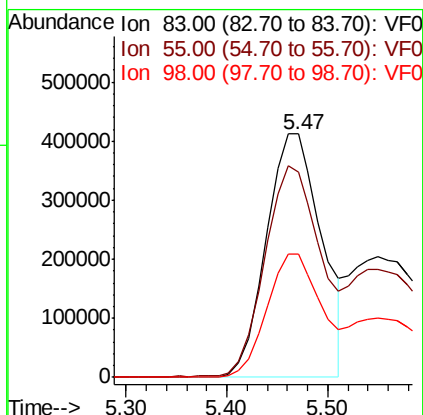
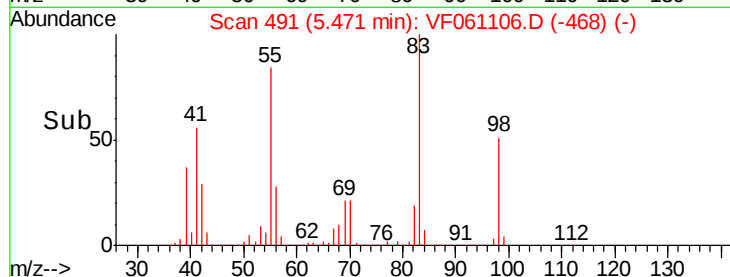
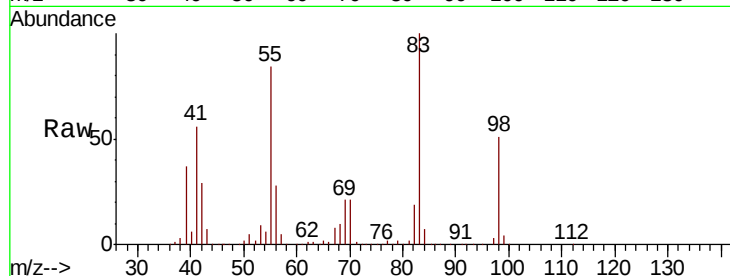




#39
Methvlcvclohexane
Concen: 568.694 ug/l
RT: 5.47 min Scan# 491
Delta R.T. 0.03 min
Lab File: VF061106.D
Acq: 20 Dec 2018 14:19

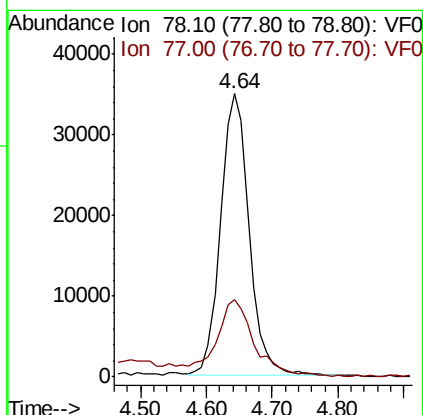
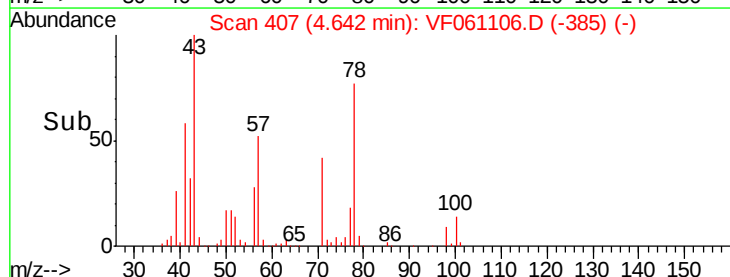
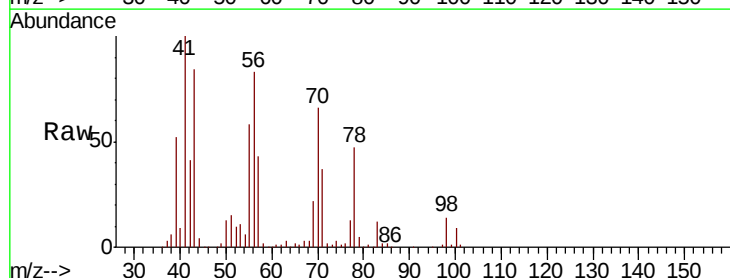
Instrument :
MSVOA_F
ClientSampled :

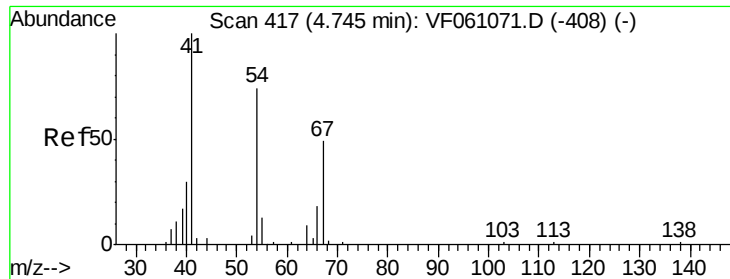
Tot Ion: 83 Resp: 1576140
Ion Ratio Lower Upper
83 100
55 84.5 70.6 105.8
98 50.7 38.5 57.7



#40
Benzene
Concen: 16.012 ug/l
RT: 4.64 min Scan# 407
Delta R.T. 0.02 min
Lab File: VF061106.D
Acq: 20 Dec 2018 14:19

Tgt Ion: 78 Resp: 106377
Ion Ratio Lower Upper
78 100
77 27.5 20.7 31.1





#41

Methacrylonitrile

Concen: 2166.414 ug/l

RT: 4.69 min Scan# 412

Delta R.T. -0.05 min

Lab File: VF061106.D

Acq: 20 Dec 2018 14:19

Instrument :

MSVOA_F

ClientSampled :

Tot Ion: 41 Resp: 1413430

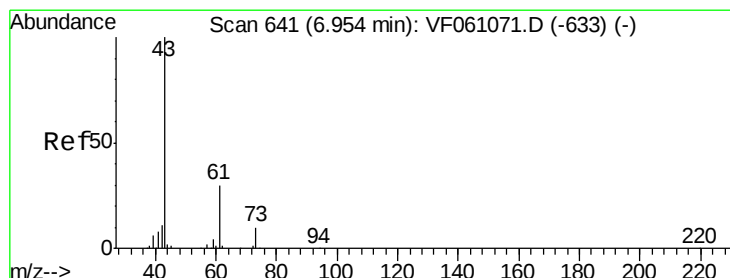
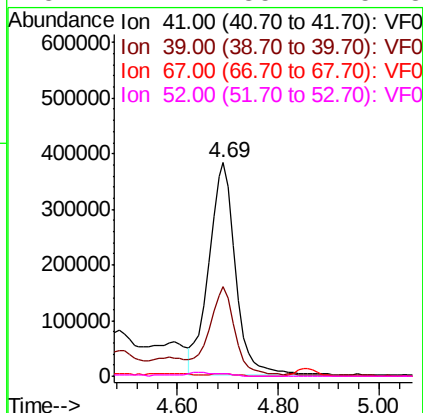
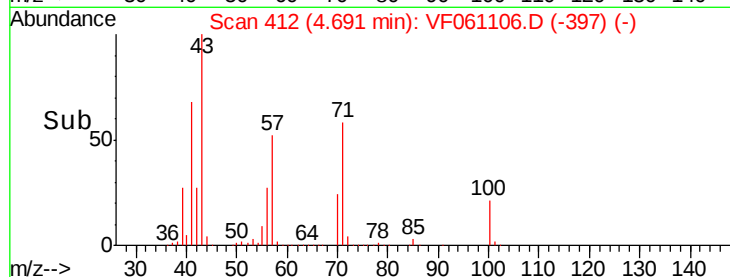
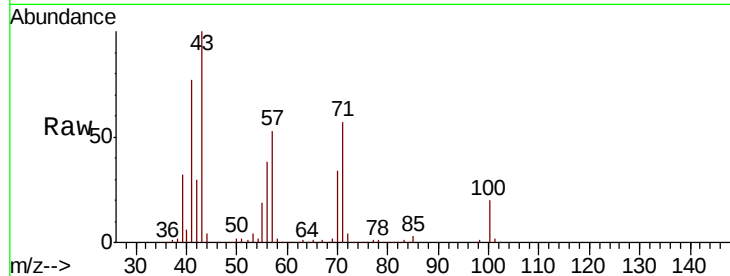
Ion Ratio Lower Upper

41 100

39 41.8 45.7 68.5#

67 1.2 38.9 58.3#

52 1.2 35.2 52.8#



#43

Isopropyl Acetate

Concen: 24.513 ug/l

RT: 7.03 min Scan# 649

Delta R.T. 0.08 min

Lab File: VF061106.D

Acq: 20 Dec 2018 14:19

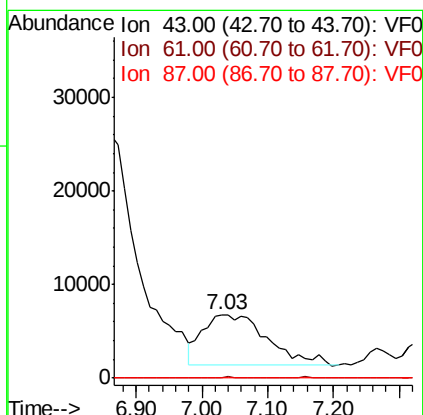
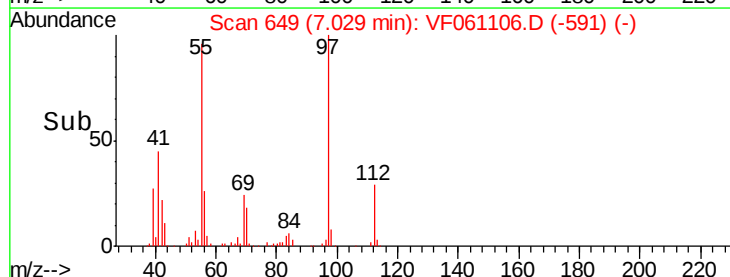
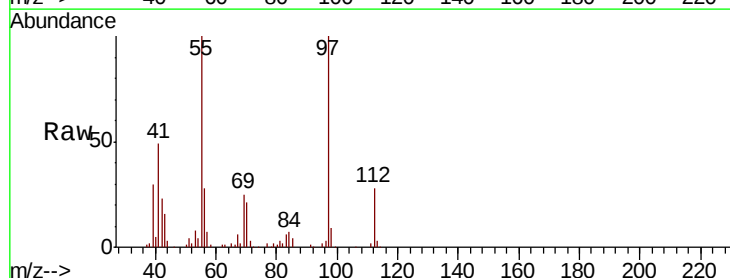
Tgt Ion: 43 Resp: 36565

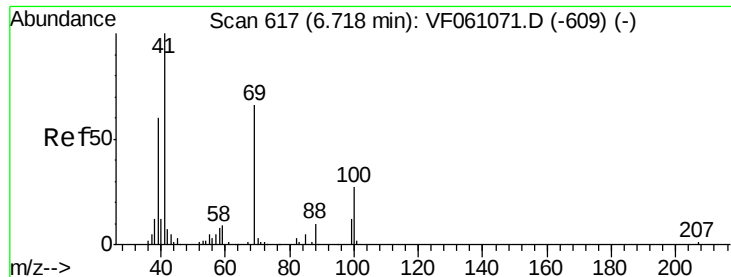
Ion Ratio Lower Upper

43 100

61 0.0 23.8 35.8#

87 0.0 0.0 0.0

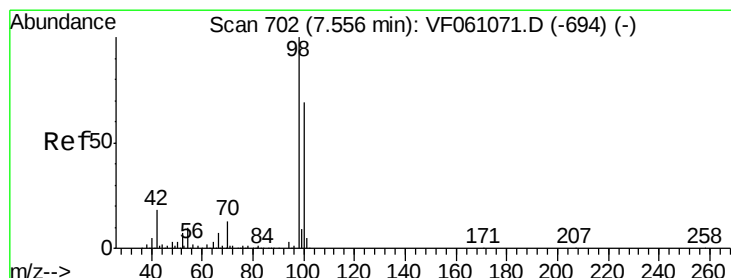
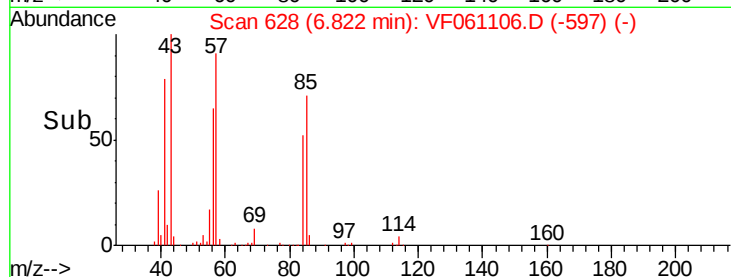
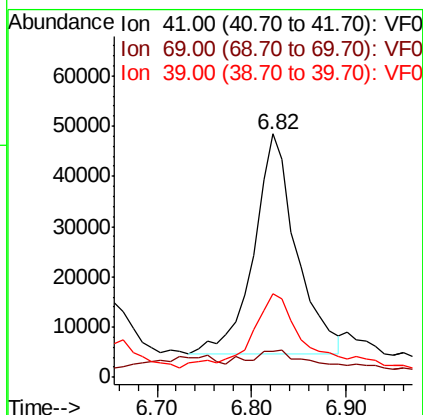
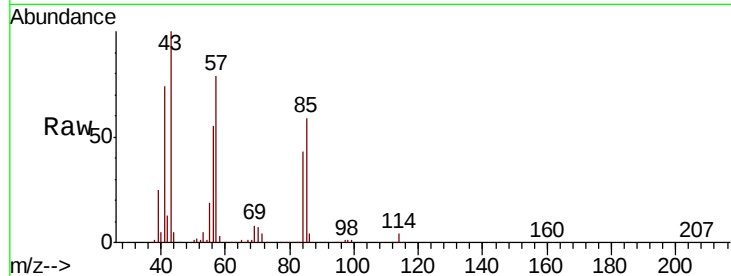




#48
Methvl methacrylate
Concen: 131.401 ug/l
RT: 6.82 min Scan# 628
Delta R.T. 0.10 min
Lab File: VF061106.D
Acq: 20 Dec 2018 14:19

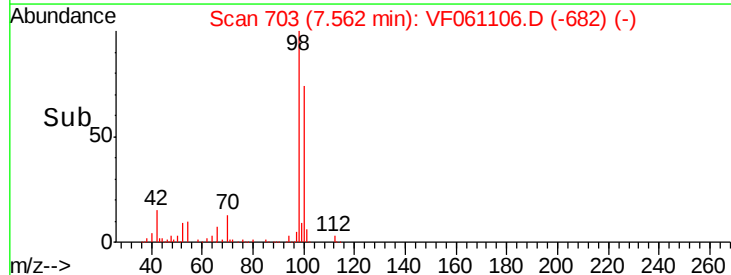
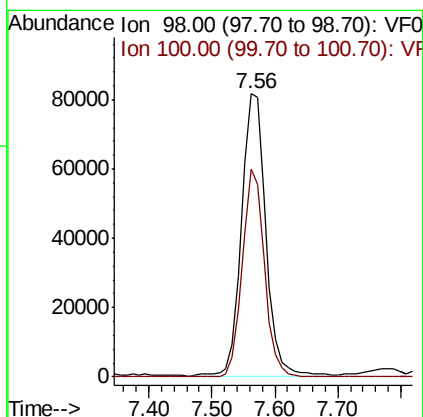
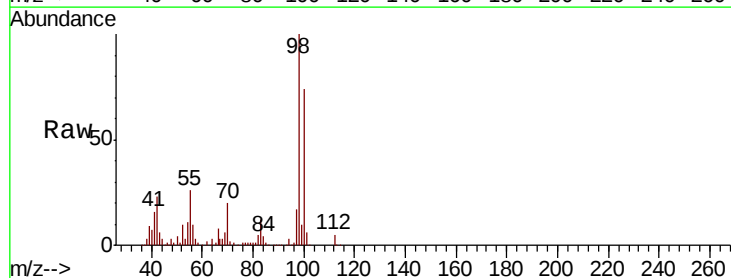
Instrument :
MSVOA_F
ClientSampleId :

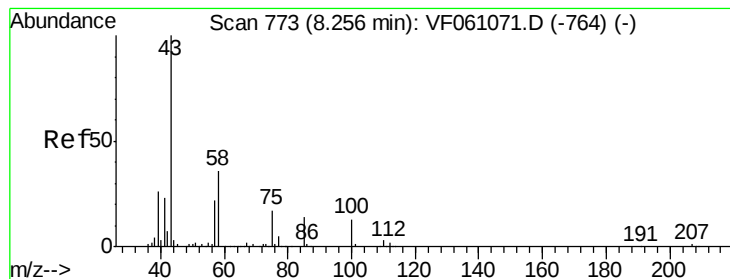
Tot Ion: 41 Resp: 136834
Ion Ratio Lower Upper
41 100
69 10.5 52.7 79.1#
39 34.5 47.8 71.6#



#50
Toluene-d8
Concen: 37.241 ug/l
RT: 7.56 min Scan# 703
Delta R.T. 0.01 min
Lab File: VF061106.D
Acq: 20 Dec 2018 14:19

Tgt Ion: 98 Resp: 216371
Ion Ratio Lower Upper
98 100
100 73.5 55.3 82.9





#51

4-Methyl-2-Pentanone

Concen: 113.213 ug/l

RT: 8.29 min Scan# 777

Delta R.T. 0.04 min

Lab File: VF061106.D

Acq: 20 Dec 2018 14:19

Instrument :

MSVOA_F

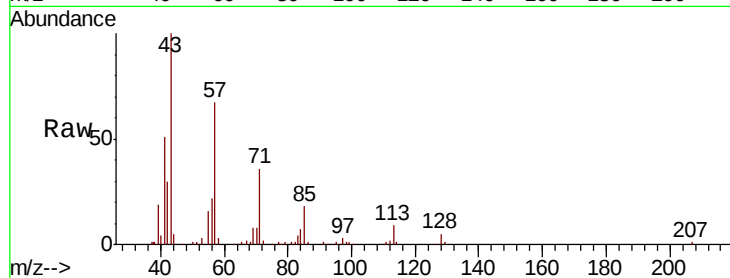
ClientSampled :

Tot Ion: 43 Resp: 115819

Ion Ratio Lower Upper

43 100

58 3.4 29.1 43.7#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

8.29

40000

30000

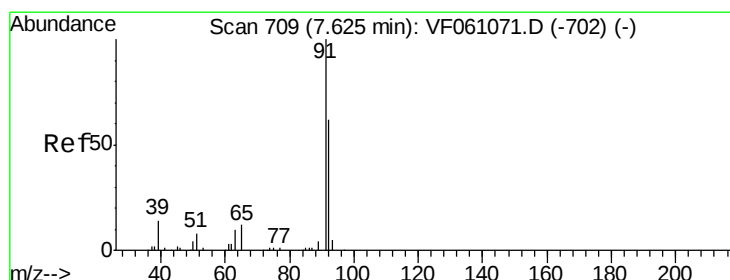
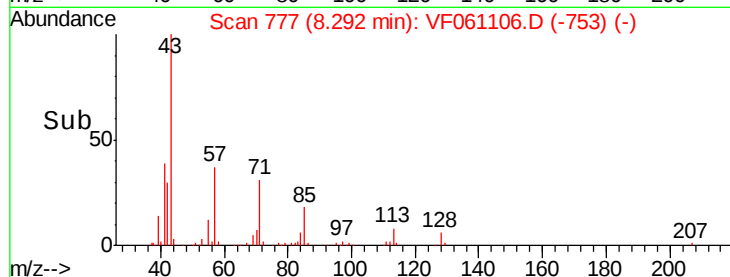
20000

10000

0

8.20 8.30 8.40

Time-->



#52

Toluene

Concen: 127.373 ug/l

RT: 7.63 min Scan# 710

Delta R.T. 0.01 min

Lab File: VF061106.D

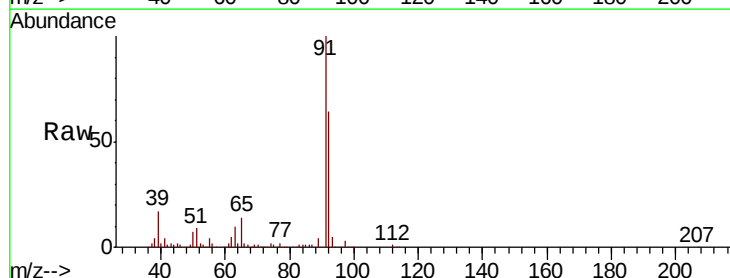
Acq: 20 Dec 2018 14:19

Tgt Ion: 92 Resp: 560147

Ion Ratio Lower Upper

92 100

91 157.0 128.8 193.2



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0

7.63

400000

300000

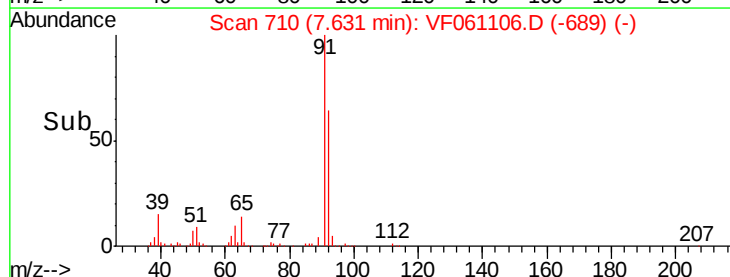
200000

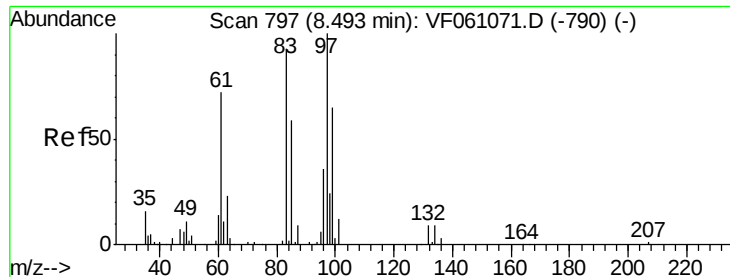
100000

0

7.50 7.60 7.70 7.80

Time-->





#55

1,1,2-Trichloroethane

Concen: 19.964 ug/l

RT: 8.40 min Scan# 788

Delta R.T. -0.09 min

Lab File: VF061106.D

Acq: 20 Dec 2018 14:19

Instrument :

MSVOA_F

ClientSampled :

Tot Ion: 97 Resp: 26320

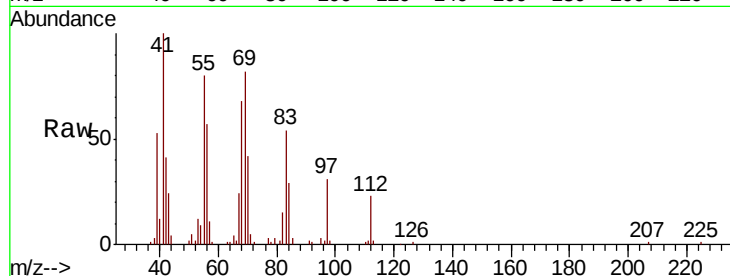
Ion Ratio Lower Upper

97 100

83 171.1 75.0 112.4#

85 9.5 47.5 71.3#

99 0.0 51.9 77.9#

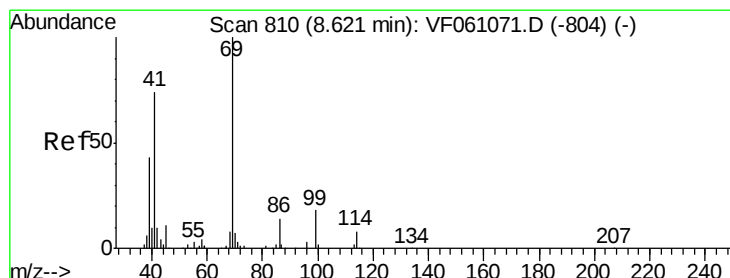
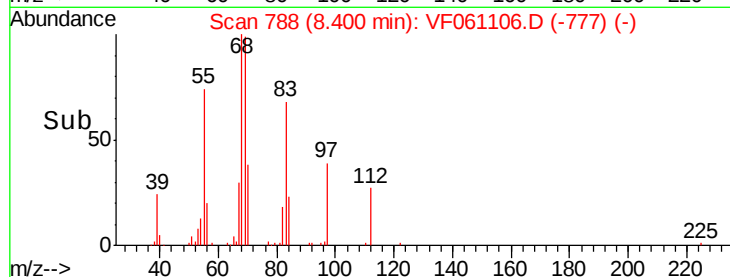
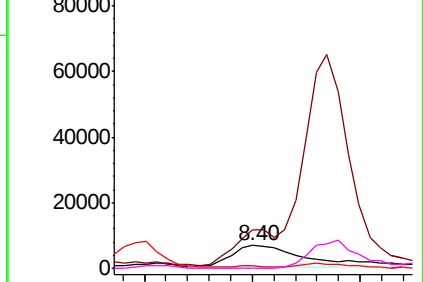


Abundance Ion 97.00 (96.70 to 97.70): VF0

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: 44.052 ug/l

RT: 8.64 min Scan# 812

Delta R.T. 0.02 min

Lab File: VF061106.D

Acq: 20 Dec 2018 14:19

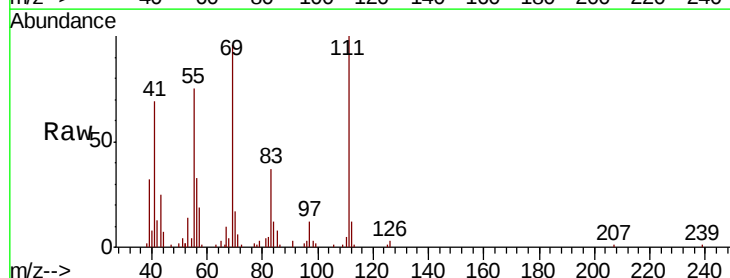
Tgt Ion: 69 Resp: 62844

Ion Ratio Lower Upper

69 100

41 72.1 59.7 89.5

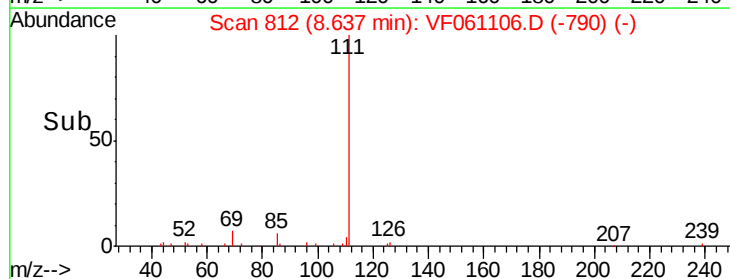
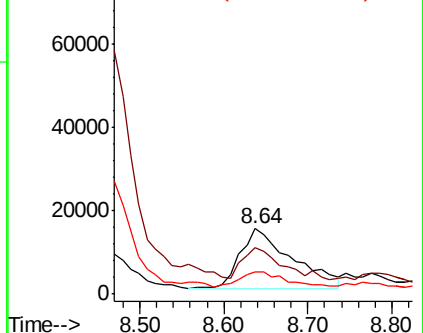
39 33.3 35.0 52.6#

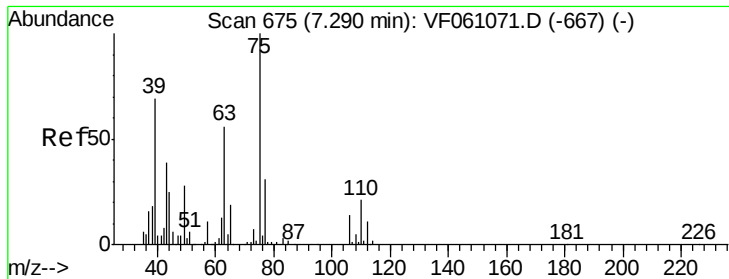


Abundance Ion 69.00 (68.70 to 69.70): VF0

Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

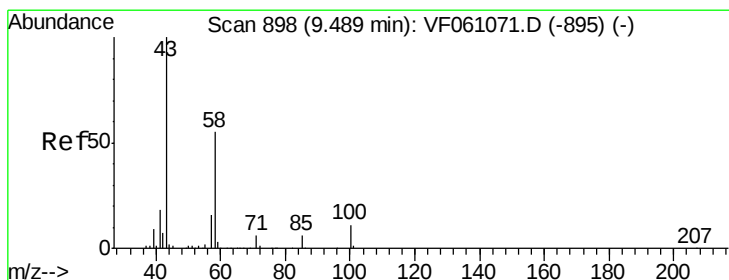
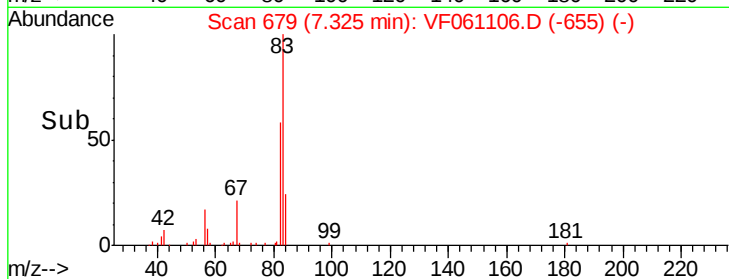
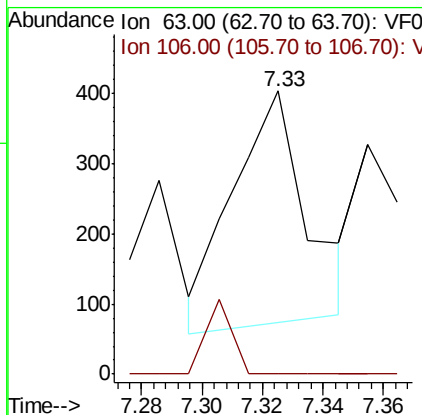
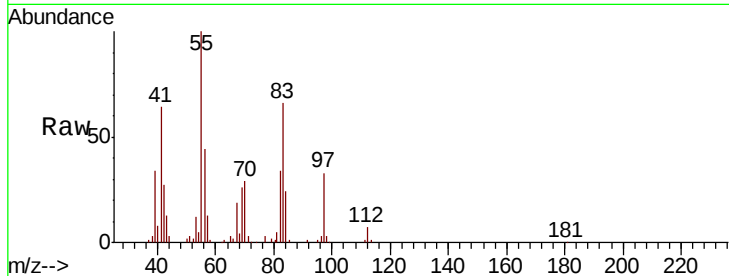




#58
2-Chloroethyl Vinyl ether
Concen: 2.062 ug/l
RT: 7.33 min Scan# 679
Delta R.T. 0.04 min
Lab File: VF061106.D
Acq: 20 Dec 2018 14:19

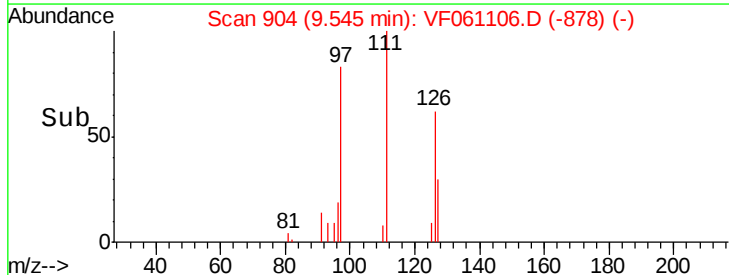
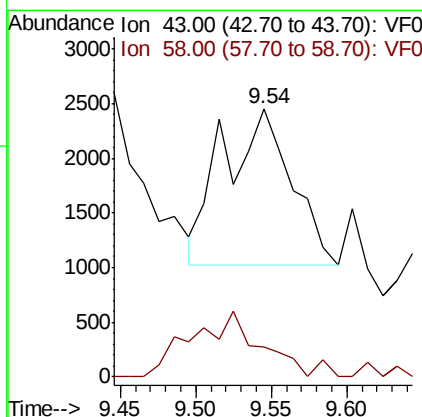
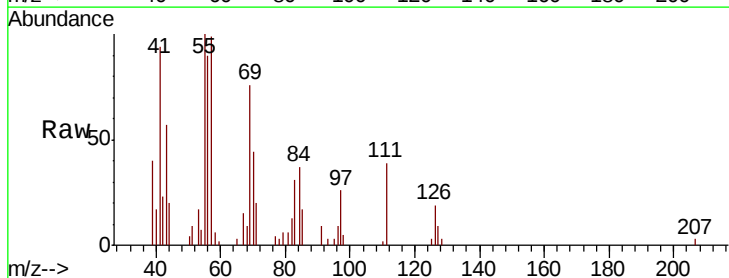
Instrument :
MSVOA_F
ClientSampleId :

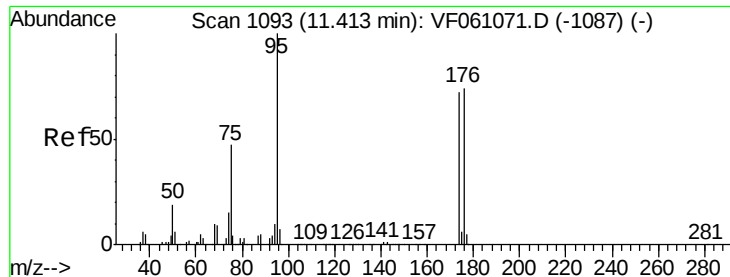
Tot Ion: 63 Resp: 565
Ion Ratio Lower Upper
63 100
106 0.0 19.8 29.8#



#59
2-Hexanone
Concen: 6.145 ug/l
RT: 9.54 min Scan# 904
Delta R.T. 0.06 min
Lab File: VF061106.D
Acq: 20 Dec 2018 14:19

Tgt Ion: 43 Resp: 4546
Ion Ratio Lower Upper
43 100
58 10.9 25.1 75.2#





#62

4-Bromofluorobenzene

Concen: 25.683 ug/l

RT: 11.42 min Scan# 1094

Delta R.T. 0.01 min

Lab File: VF061106.D

Acq: 20 Dec 2018 14:19

Instrument :

MSVOA_F

ClientSampled :

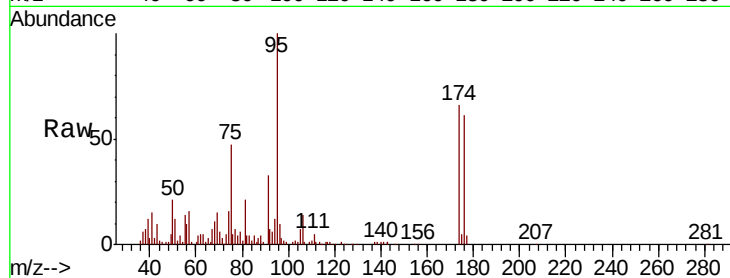
Tot Ion: 95 Resp: 68792

Ion Ratio Lower Upper

95 100

174 66.4 0.0 143.8

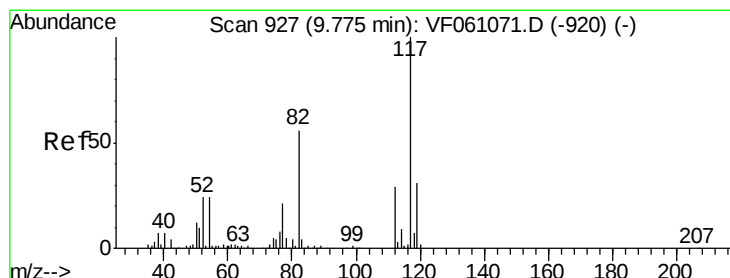
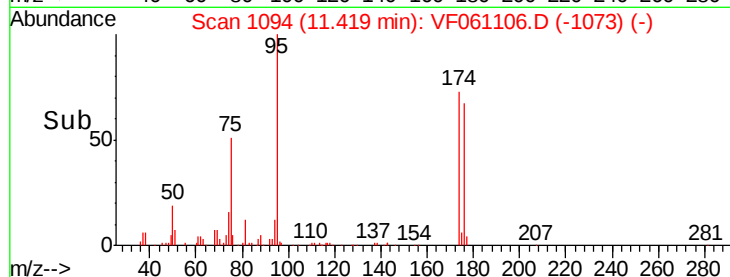
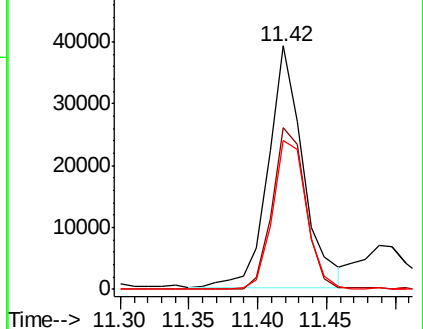
176 61.0 0.0 147.6



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: 9.79 min Scan# 929

Delta R.T. 0.02 min

Lab File: VF061106.D

Acq: 20 Dec 2018 14:19

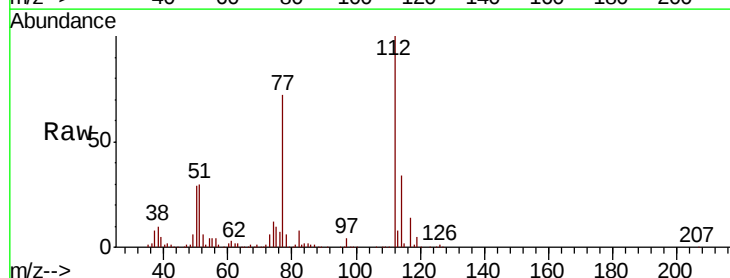
Tgt Ion: 117 Resp: 162638

Ion Ratio Lower Upper

117 100

82 58.8 45.0 67.4

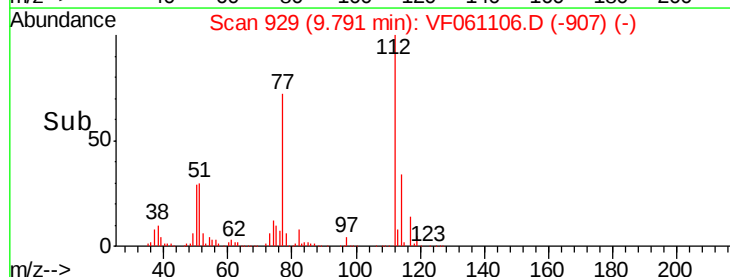
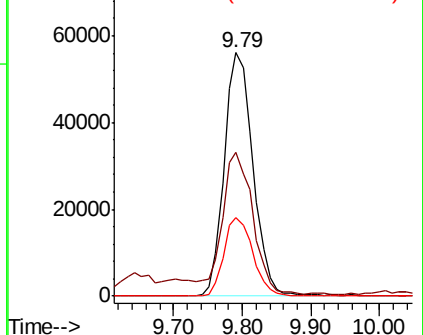
119 32.3 24.8 37.2

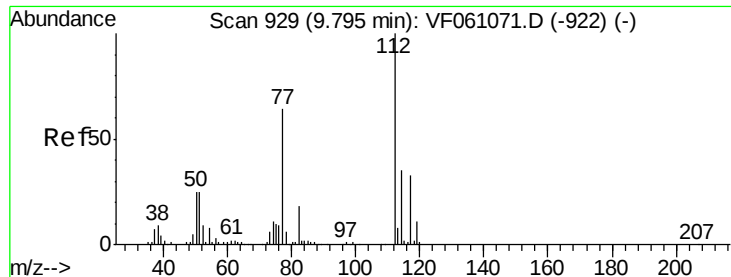


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 82.00 (81.70 to 82.70): VF0

Ion 119.00 (118.70 to 119.70): V

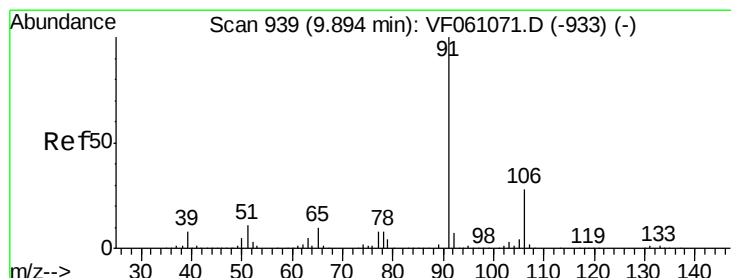
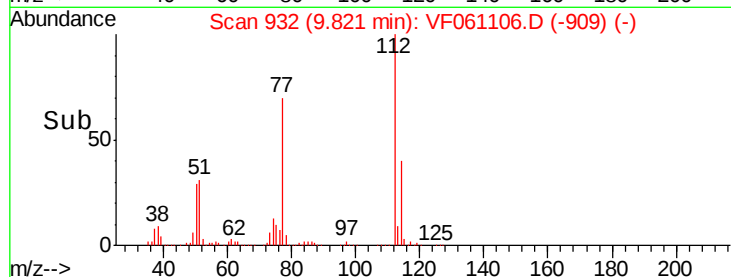
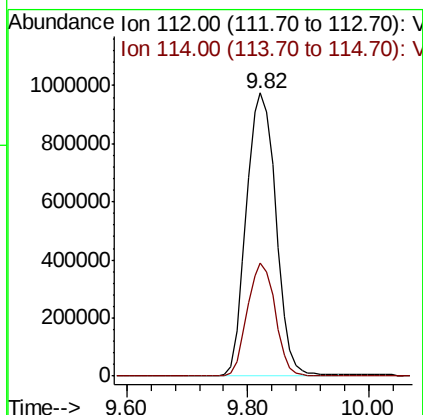
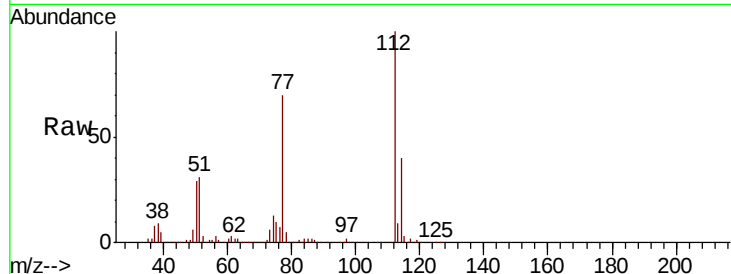




#65
Chlorobenzene
Concen: 991.421 ug/l
RT: 9.82 min Scan# 932
Delta R.T. 0.03 min
Lab File: VF061106.D
Acq: 20 Dec 2018 14:19

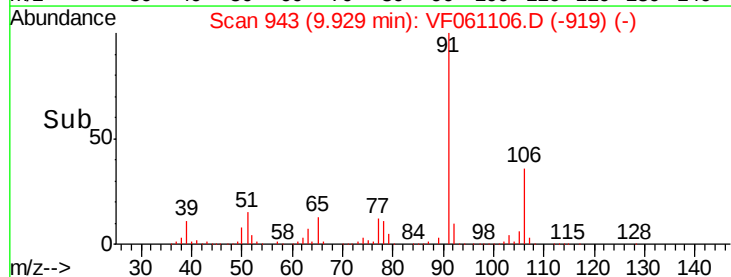
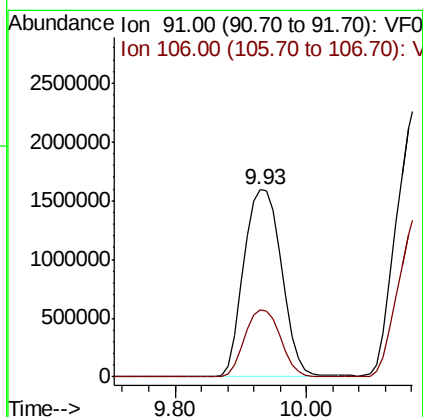
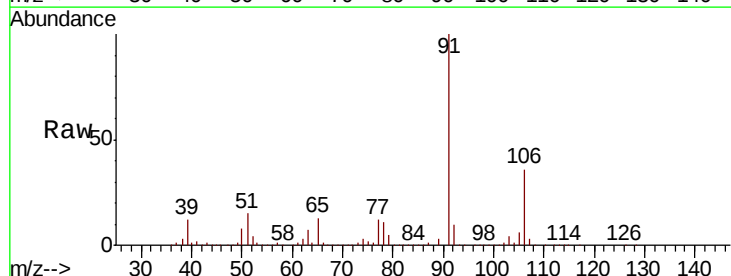
Instrument :
MSVOA_F
ClientSampleId :

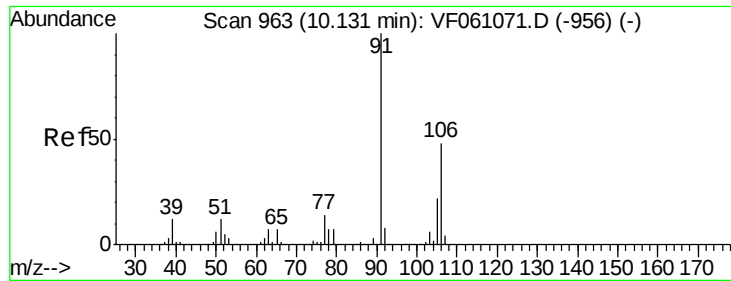
Tot Ion:112 Resp: 3331053
Ion Ratio Lower Upper
112 100
114 39.8 27.8 41.6



#67
Ethyl Benzene
Concen: 1058.000 ug/l
RT: 9.93 min Scan# 943
Delta R.T. 0.04 min
Lab File: VF061106.D
Acq: 20 Dec 2018 14:19

Tgt Ion: 91 Resp: 6476092
Ion Ratio Lower Upper
91 100
106 36.1 22.5 33.7#





#68

m/p-Xylenes

Concen: 7967.594 ug/l

RT: 10.25 min Scan# 976

Delta R.T. 0.12 min

Lab File: VF061106.D

Acq: 20 Dec 2018 14:19

Instrument :

MSVOA_F

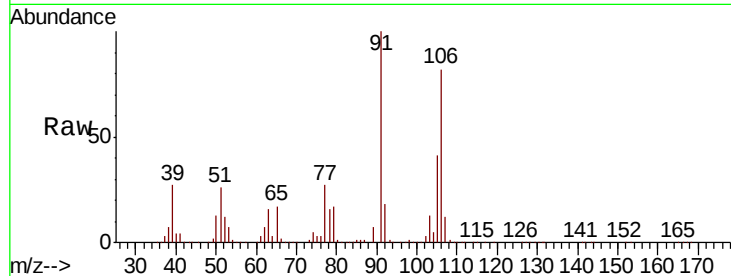
ClientSampleId :

Tot Ion:106 Resp:17163367

Ion Ratio Lower Upper

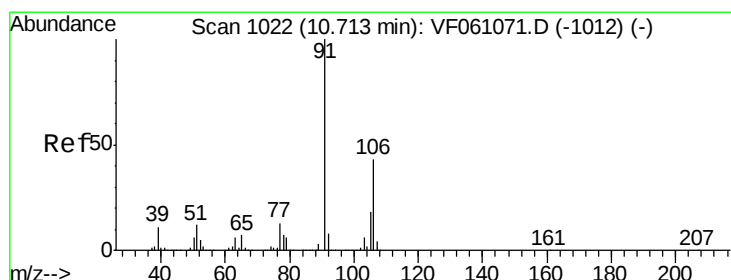
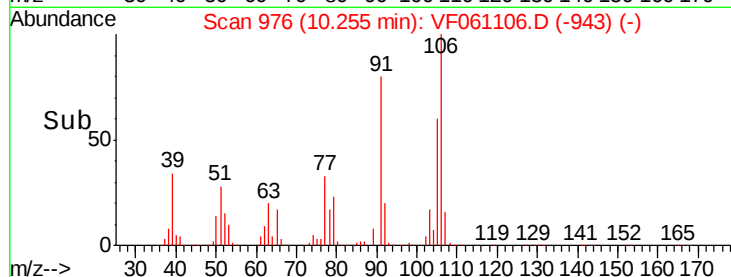
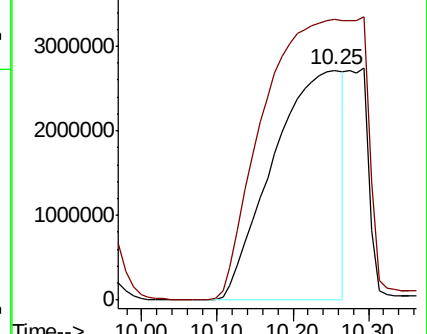
106 100

91 121.9 168.2 252.2#



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VF0



#69

o-Xylene

Concen: 1595.214 ug/l

RT: 10.76 min Scan# 1027

Delta R.T. 0.05 min

Lab File: VF061106.D

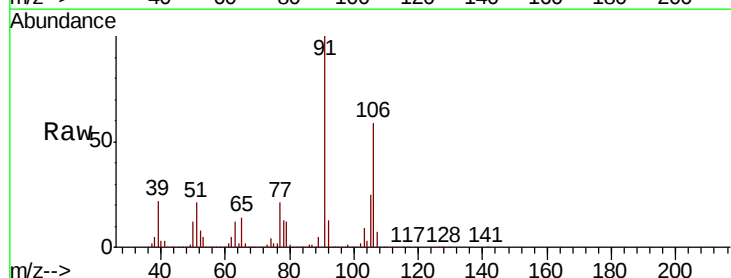
Acq: 20 Dec 2018 14:19

Tgt Ion:106 Resp: 3811132

Ion Ratio Lower Upper

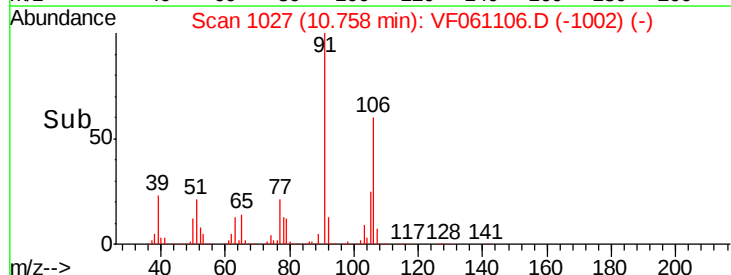
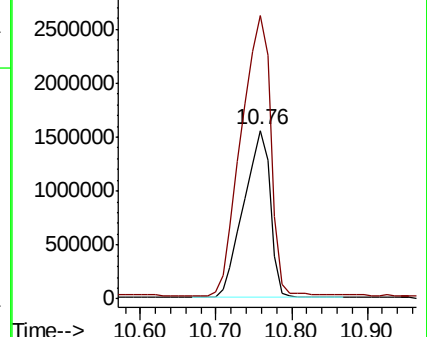
106 100

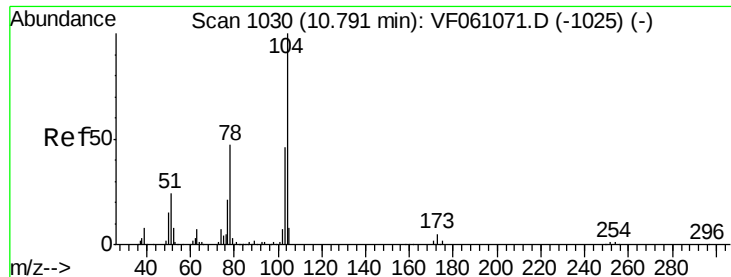
91 168.1 115.9 347.7



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VF0





#70

Stvrene

Concen: 74.014 ug/l

RT: 10.76 min Scan# 1027

Delta R.T. -0.03 min

Lab File: VF061106.D

Acq: 20 Dec 2018 14:19

Instrument :

MSVOA_F

ClientSampleId :

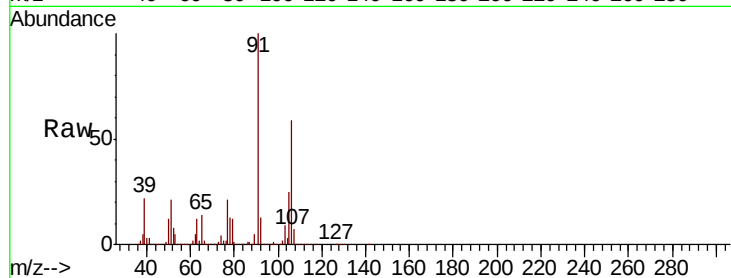
Tot Ion:104 Resp: 208644

Ion Ratio Lower Upper

104 100

78 378.8 38.4 57.6#

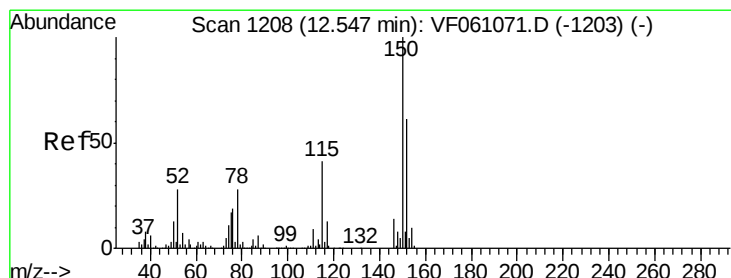
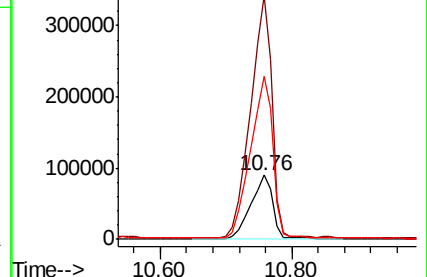
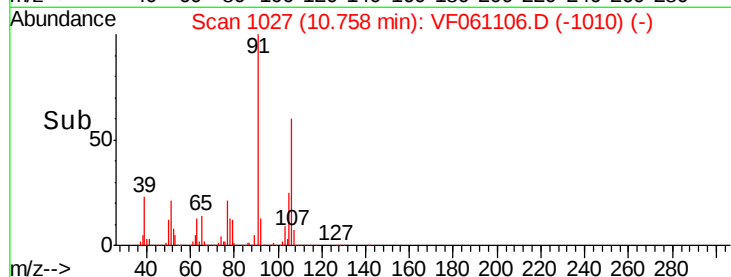
103 253.0 37.0 55.6#



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VF0

Ion 103.00 (102.70 to 103.70): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.67 min Scan# 1221

Delta R.T. 0.12 min

Lab File: VF061106.D

Acq: 20 Dec 2018 14:19

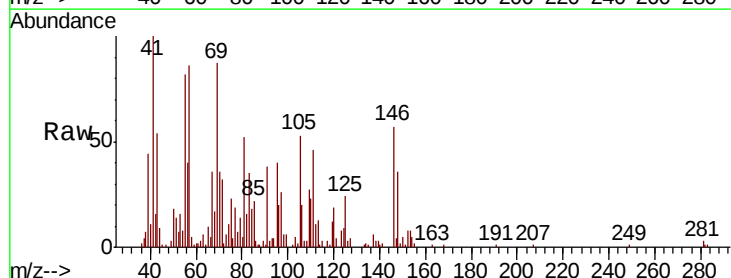
Tgt Ion:152 Resp: 1717

Ion Ratio Lower Upper

152 100

115 43.7 33.3 99.9

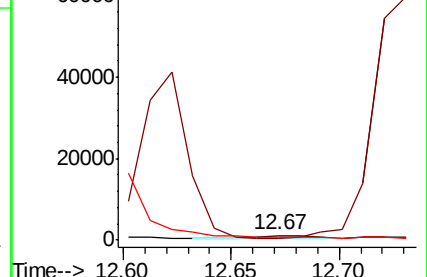
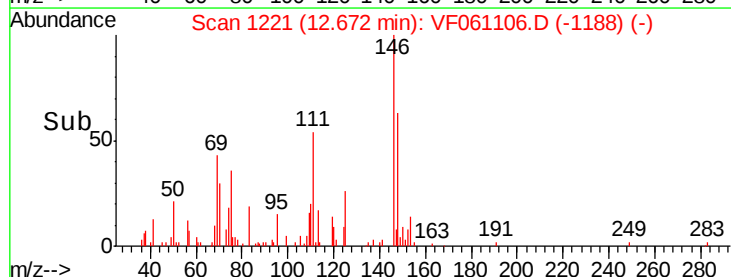
150 65.6 0.0 328.2

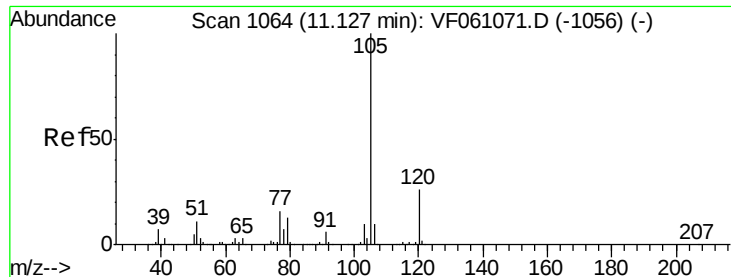


Abundance Ion 152.00 (151.70 to 152.70): V

Ion 115.00 (114.70 to 115.70): V

Ion 150.00 (149.70 to 150.70): V





#73

Isopropylbenzene

Concen: 4030.887 ug/l

RT: 11.13 min Scan# 1065

Delta R.T. 0.01 min

Lab File: VF061106.D

Acq: 20 Dec 2018 14:19

Instrument :

MSVOA_F

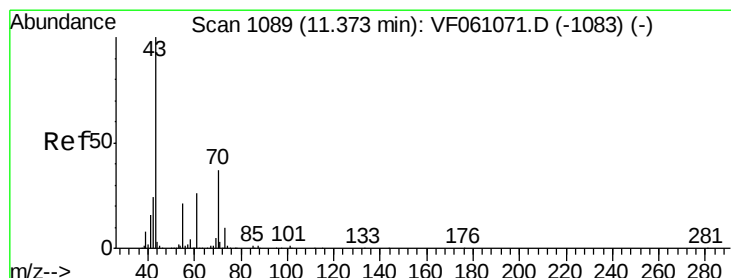
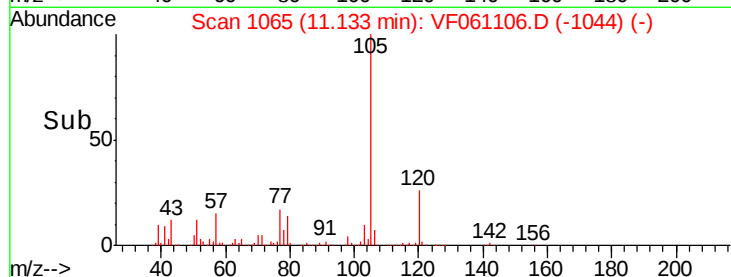
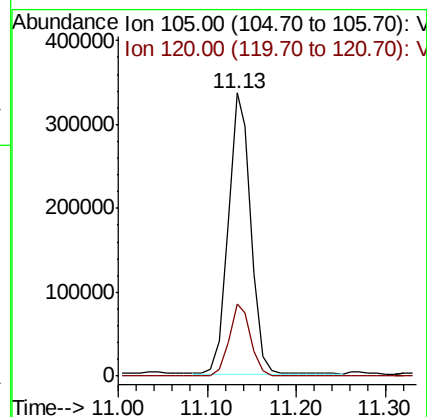
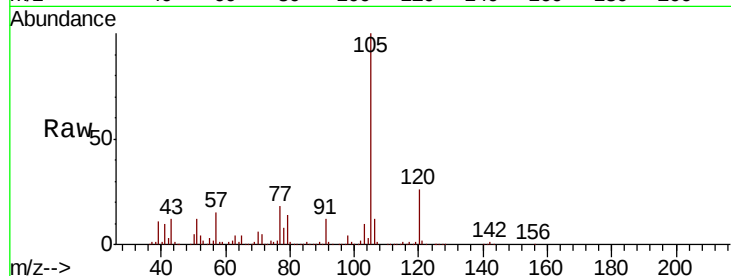
ClientSampleId :

Tot Ion:105 Resp: 596422

Ion Ratio Lower Upper

105 100

120 25.6 13.0 39.0



#74

N-ethyl acetate

Concen: 323.163 ug/l

RT: 11.40 min Scan# 1092

Delta R.T. 0.03 min

Lab File: VF061106.D

Acq: 20 Dec 2018 14:19

Tgt Ion: 43 Resp: 10616

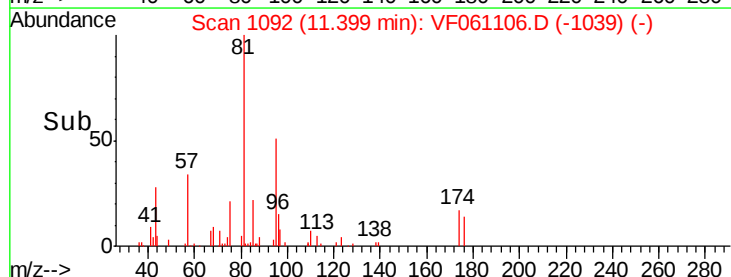
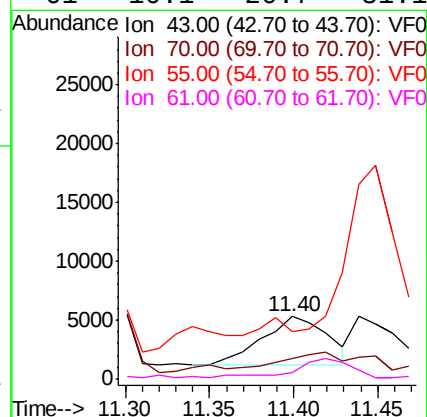
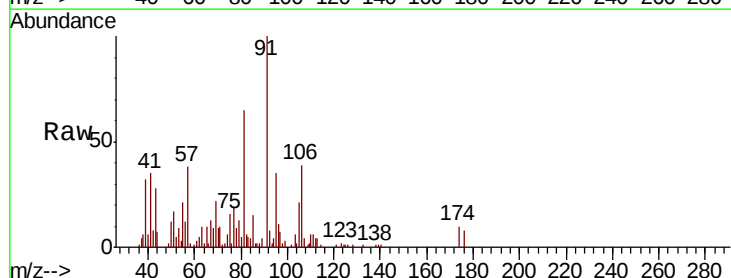
Ion Ratio Lower Upper

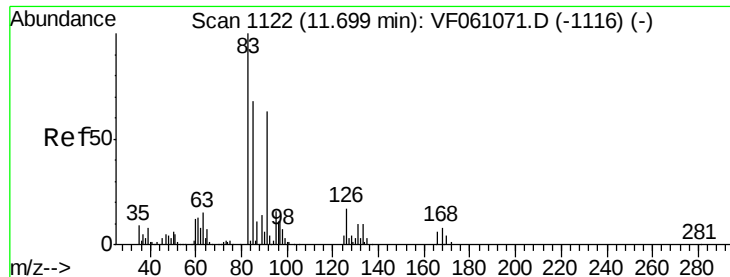
43 100

70 32.6 29.2 43.8

55 76.6 16.5 24.7#

61 10.1 20.7 31.1#





#75

1,1,2,2-Tetrachloroethane

Concen: 629.392 ug/l

RT: 11.69 min Scan# 1121

Delta R.T. -0.01 min

Lab File: VF061106.D

Acq: 20 Dec 2018 14:19

Instrument :

MSVOA_F

ClientSampleId :

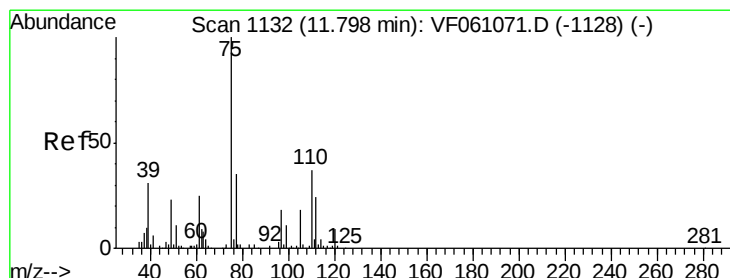
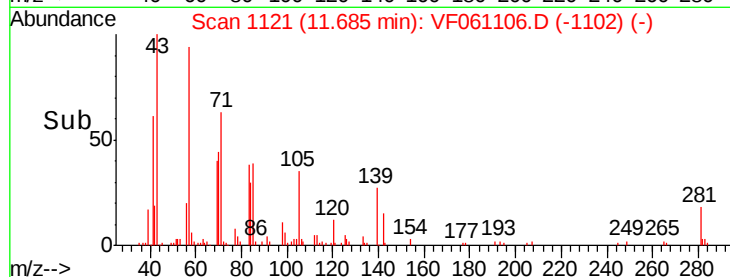
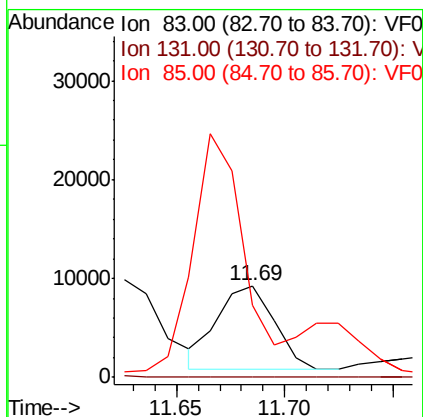
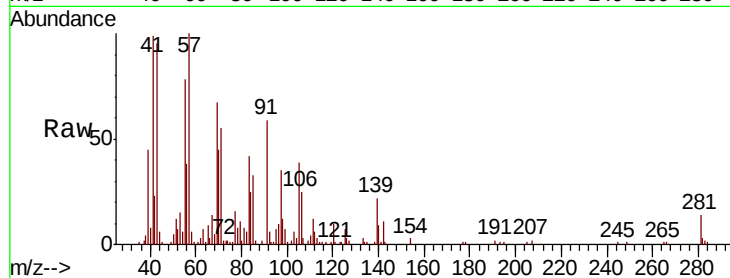
Tot Ion: 83 Resp: 15456

Ion Ratio Lower Upper

83 100

131 0.0 4.8 14.3#

85 79.1 33.9 101.6



#76

1,2,3-Trichloropropane

Concen: 883.985 ug/l

RT: 11.83 min Scan# 1136

Delta R.T. 0.04 min

Lab File: VF061106.D

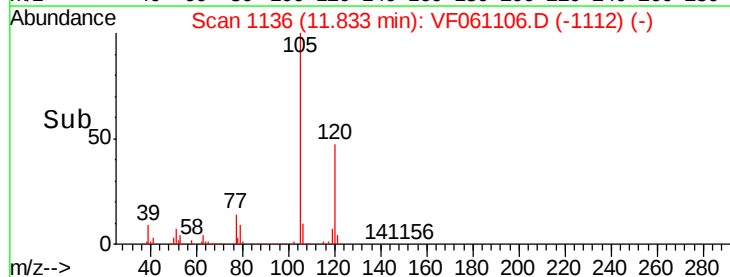
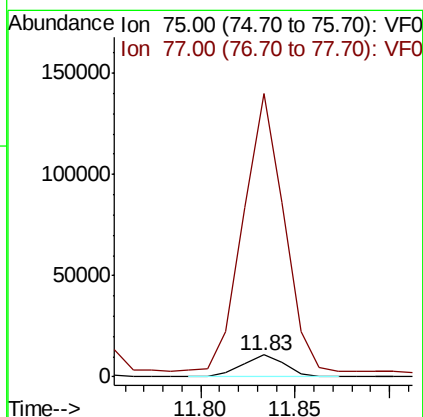
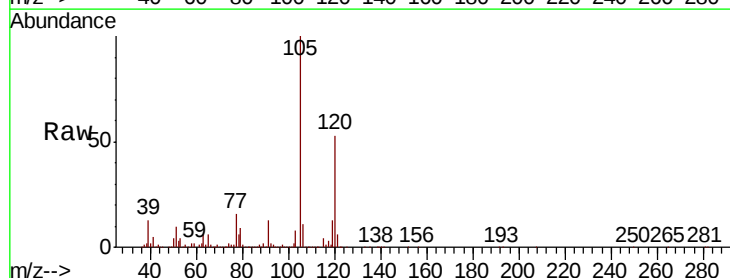
Acq: 20 Dec 2018 14:19

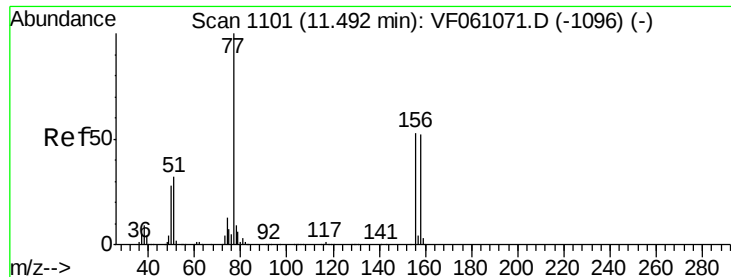
Tgt Ion: 75 Resp: 16155

Ion Ratio Lower Upper

75 100

77 1284.6 17.6 52.9#





#77

Bromobenzene

Concen: 4.113 ug/l

RT: 11.50 min Scan# 1102

Delta R.T. 0.01 min

Lab File: VF061106.D

Acq: 20 Dec 2018 14:19

Instrument :

MSVOA_F

ClientSampleId :

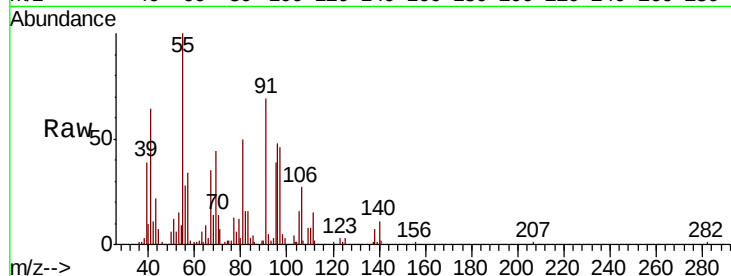
Tot Ion:156 Resp: 131

Ion Ratio Lower Upper

156 100

77 1923.3 93.8 281.4#

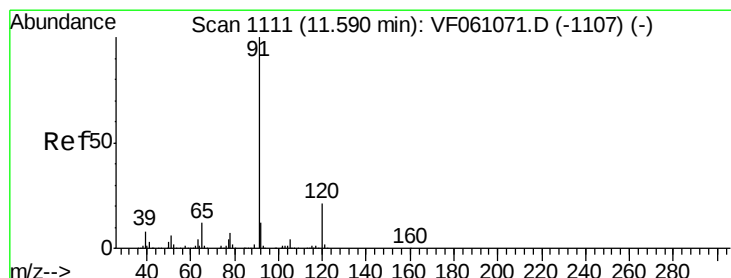
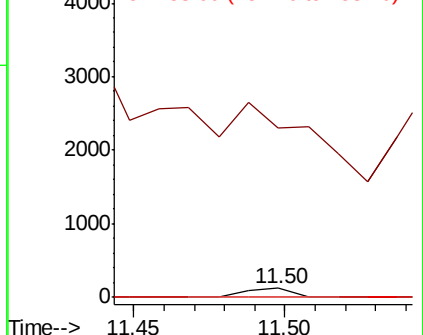
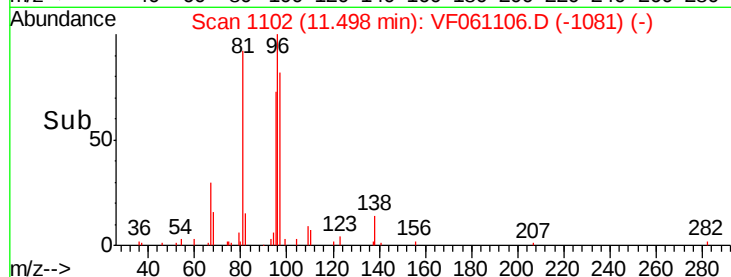
158 0.0 48.9 146.8#



Abundance Ion 156.00 (155.70 to 156.70): V

Ion 77.00 (76.70 to 77.70): VF0

Ion 158.00 (157.70 to 158.70): V



#78

n-propylbenzene

Concen: Below Cal

RT: 11.61 min Scan# 1113

Delta R.T. 0.02 min

Lab File: VF061106.D

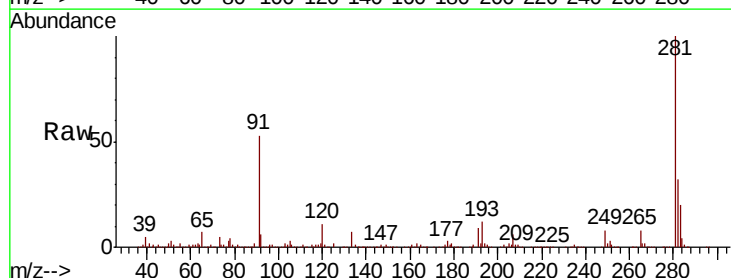
Acq: 20 Dec 2018 14:19

Tgt Ion: 91 Resp: 770596

Ion Ratio Lower Upper

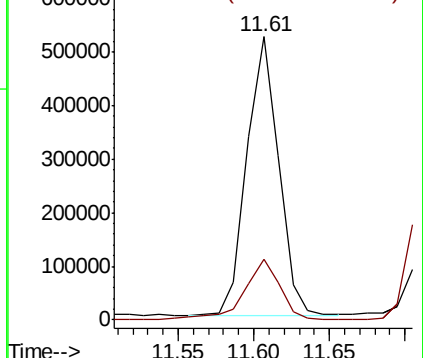
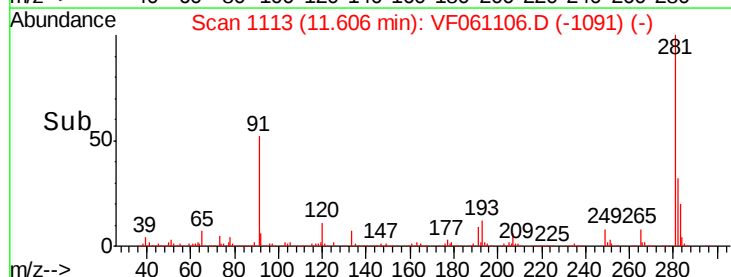
91 100

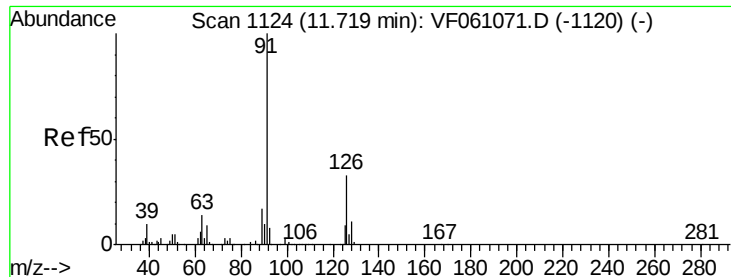
120 21.3 10.4 31.2



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 120.00 (119.70 to 120.70): V

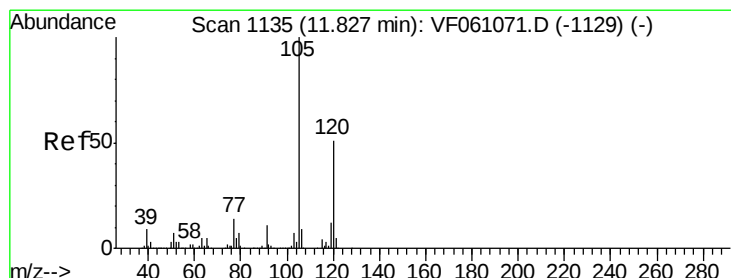
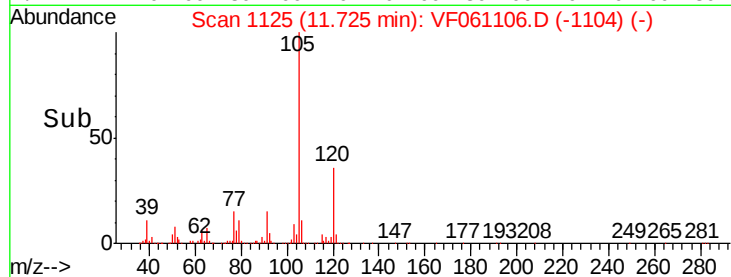
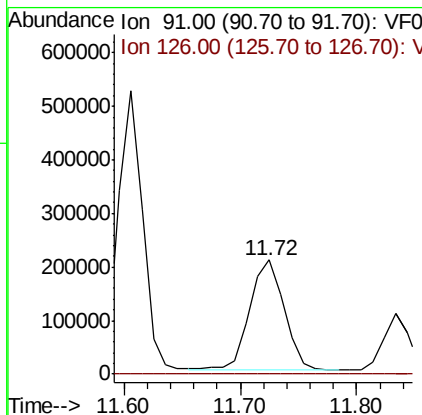
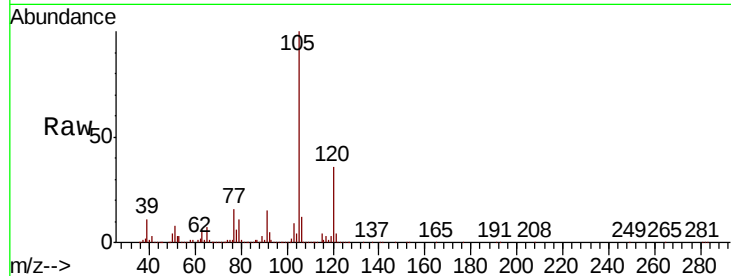




#79
 2-Chlorotoluene
 Concen: 4135.775 ug/l
 RT: 11.72 min Scan# 1125
 Delta R.T. 0.01 min
 Lab File: VF061106.D
 Acq: 20 Dec 2018 14:19

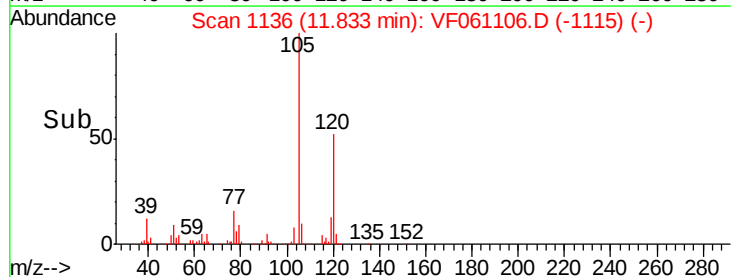
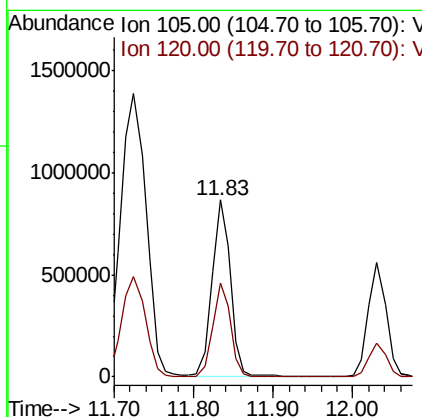
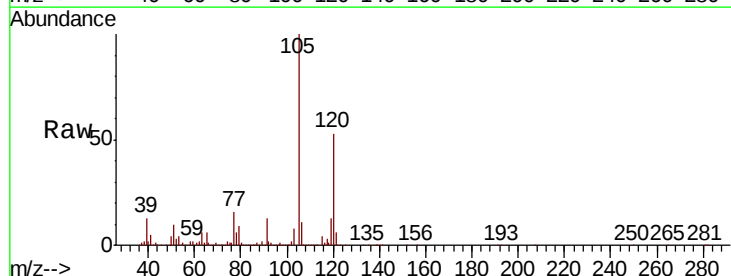
Instrument :
 MSVOA_F
 ClientSampleId :

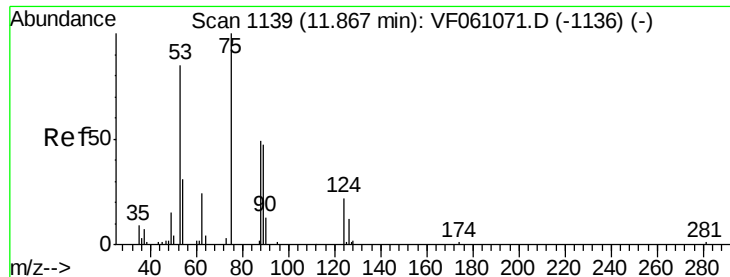
Tot Ion: 91 Resp: 419792
 Ion Ratio Lower Upper
 91 100
 126 0.2 16.4 49.1#



#80
 1,3,5-Trimethylbenzene
 Concen: 11552.141 ug/l
 RT: 11.83 min Scan# 1136
 Delta R.T. 0.01 min
 Lab File: VF061106.D
 Acq: 20 Dec 2018 14:19

Tgt Ion: 105 Resp: 1407470
 Ion Ratio Lower Upper
 105 100
 120 53.4 25.4 76.4





#81

trans-1,4-Dichloro-2-butene

Concen: 2094.857 ug/l

RT: 11.83 min Scan# 1136

Delta R.T. -0.03 min

Lab File: VF061106.D

Acq: 20 Dec 2018 14:19

Instrument :

MSVOA_F

ClientSampleId :

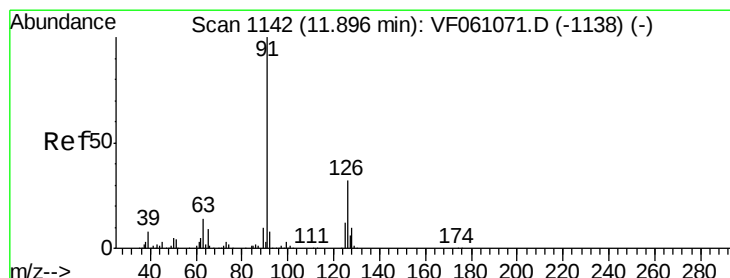
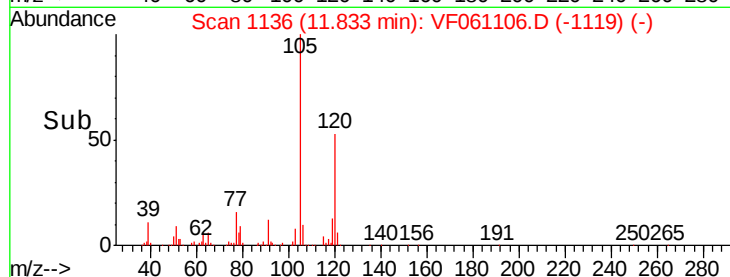
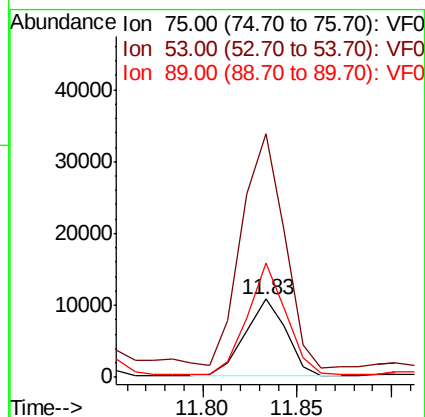
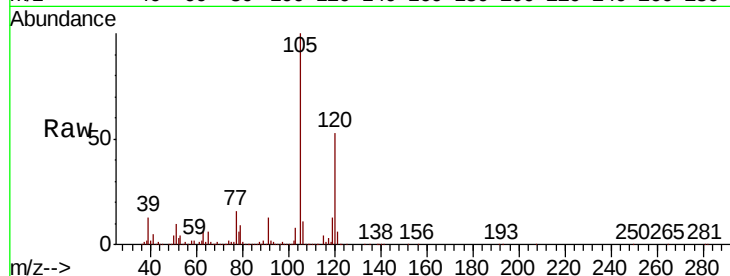
Tot Ion: 75 Resp: 16451

Ion Ratio Lower Upper

75 100

53 311.0 74.1 111.1#

89 146.6 42.6 64.0#



#82

4-Chlorotoluene

Concen: 161.893 ug/l

RT: 11.91 min Scan# 1144

Delta R.T. 0.02 min

Lab File: VF061106.D

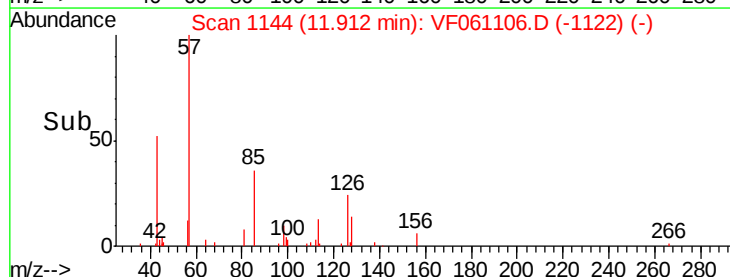
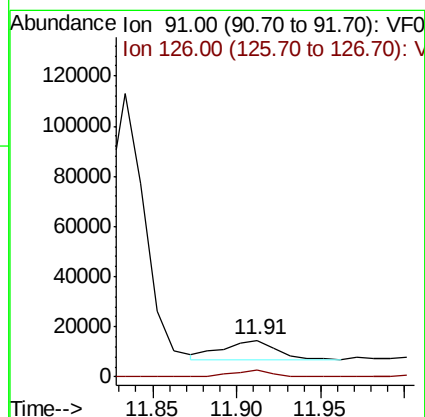
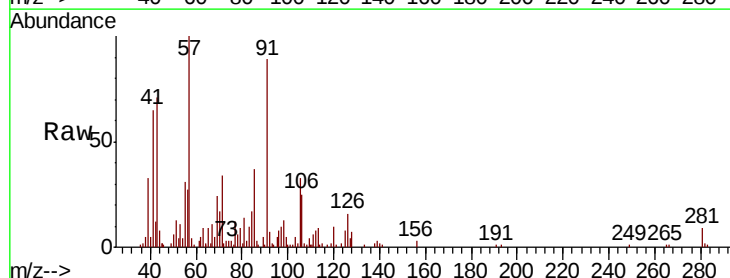
Acq: 20 Dec 2018 14:19

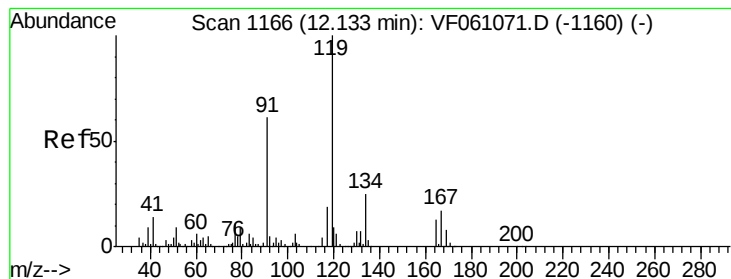
Tgt Ion: 91 Resp: 16999

Ion Ratio Lower Upper

91 100

126 17.9 16.0 47.9





#83

tert-Butylbenzene

Concen: 229.715 ug/l

RT: 12.14 min Scan# 1167

Delta R.T. 0.01 min

Lab File: VF061106.D

Acq: 20 Dec 2018 14:19

Instrument :

MSVOA_F

ClientSampleId :

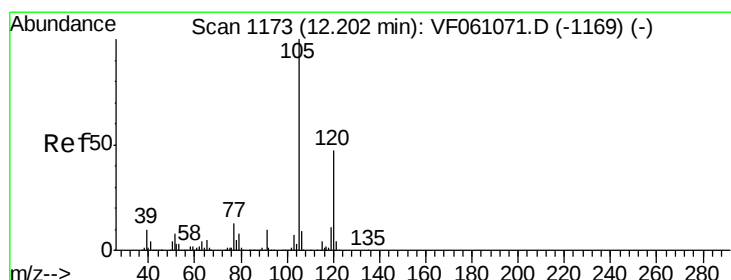
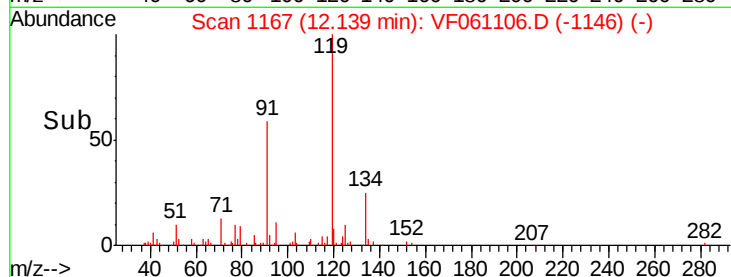
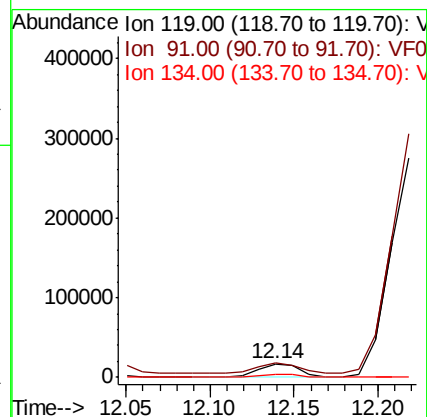
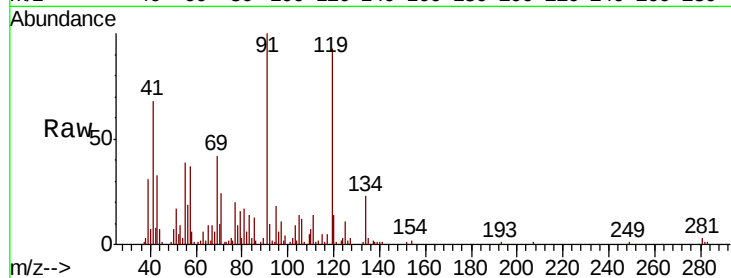
Tot Ion:119 Resp: 28800

Ion Ratio Lower Upper

119 100

91 107.0 30.5 91.5#

134 24.7 12.4 37.4



#84

1,2,4-Trimethylbenzene

Concen: 29351.250 ug/l

RT: 12.22 min Scan# 1175

Delta R.T. 0.02 min

Lab File: VF061106.D

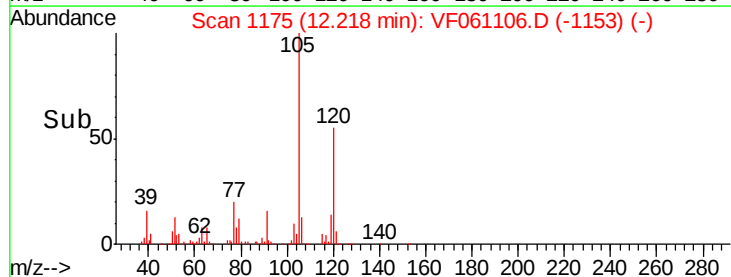
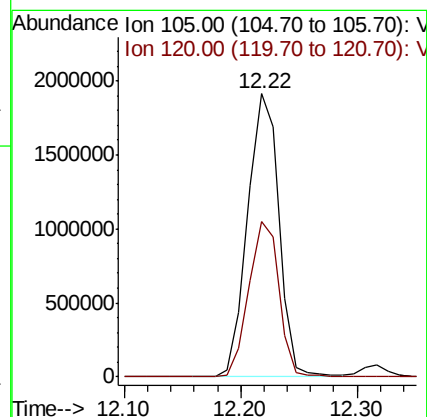
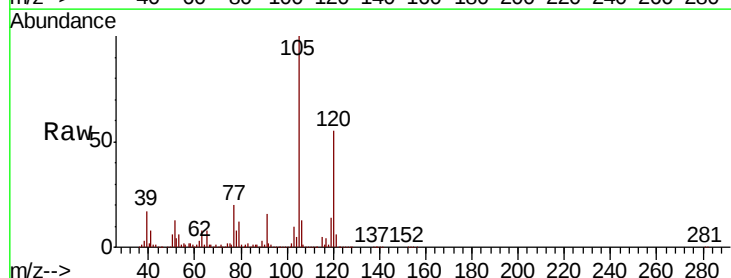
Acq: 20 Dec 2018 14:19

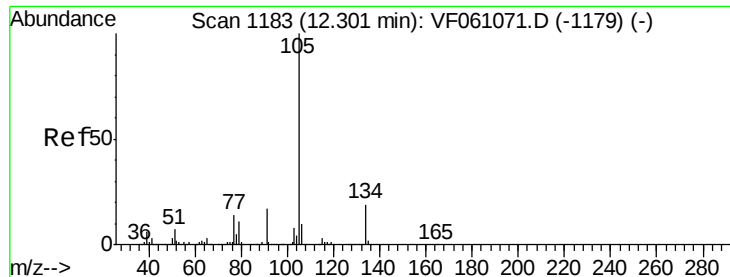
Tgt Ion:105 Resp: 3566086

Ion Ratio Lower Upper

105 100

120 55.0 23.6 71.0





#85

sec-Butylbenzene

Concen: 793.376 ug/l

RT: 12.32 min Scan# 1185

Delta R.T. 0.02 min

Lab File: VF061106.D

Acq: 20 Dec 2018 14:19

Instrument :

MSVOA_F

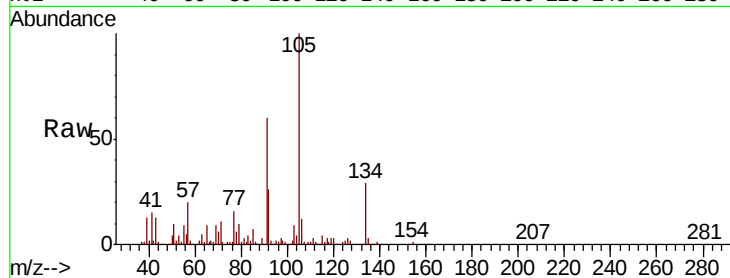
ClientSampleId :

Tot Ion:105 Resp: 129806

Ion Ratio Lower Upper

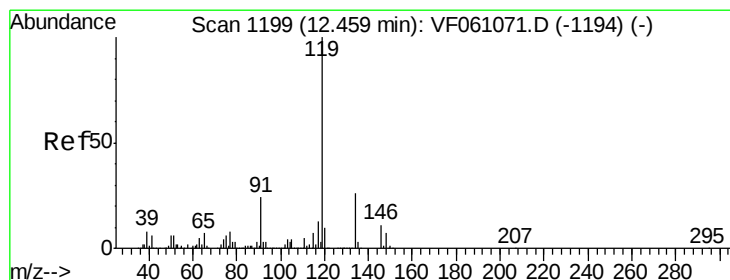
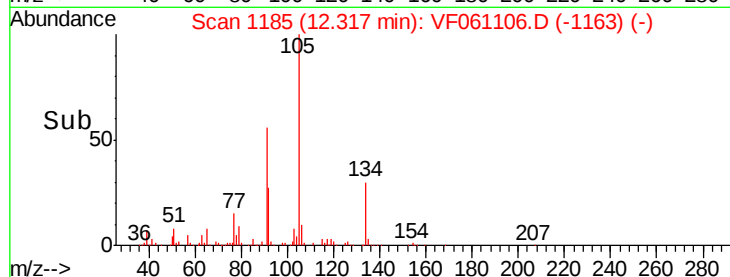
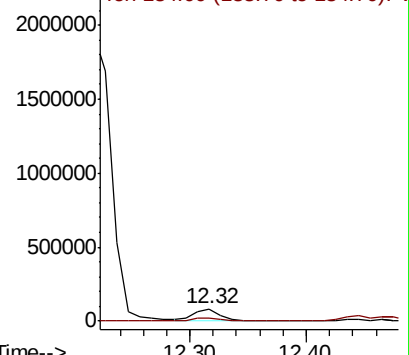
105 100

134 28.7 9.4 28.2#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 1750.333 ug/l

RT: 12.44 min Scan# 1198

Delta R.T. -0.01 min

Lab File: VF061106.D

Acq: 20 Dec 2018 14:19

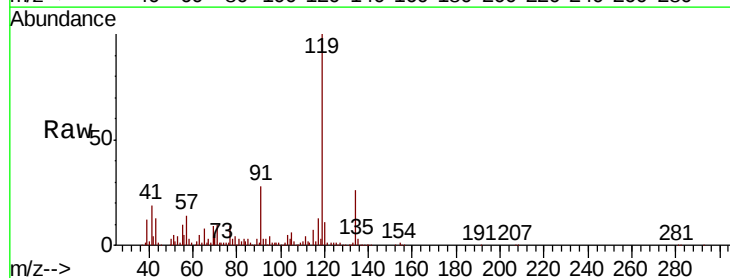
Tgt Ion:119 Resp: 237706

Ion Ratio Lower Upper

119 100

134 25.9 12.8 38.4

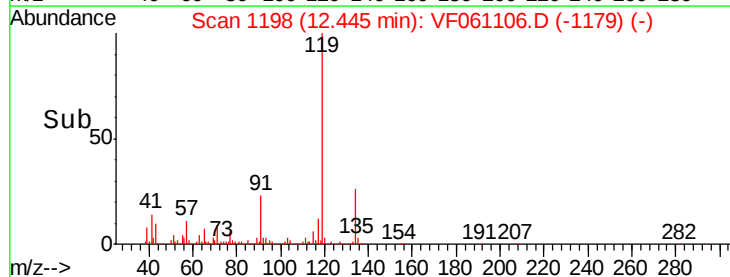
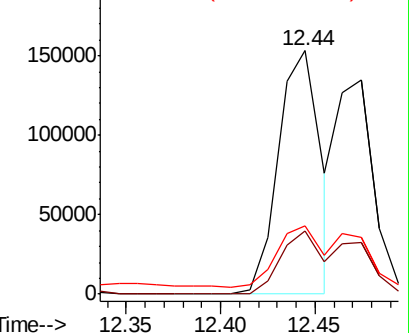
91 27.8 12.2 36.6

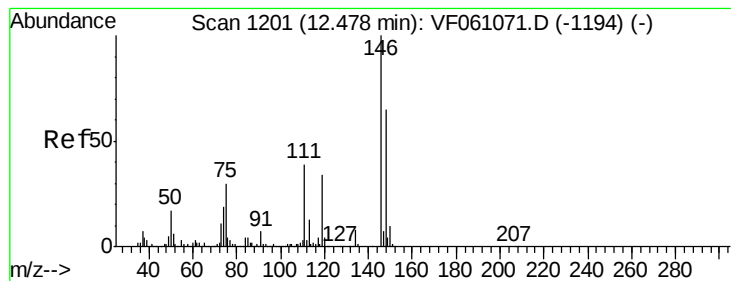


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V





#87

1,3-Dichlorobenzene

Concen: 7802.206 ug/l

RT: 12.48 min Scan# 1202

Delta R.T. 0.01 min

Lab File: VF061106.D

Acq: 20 Dec 2018 14:19

Instrument :

MSVOA_F

ClientSampleId :

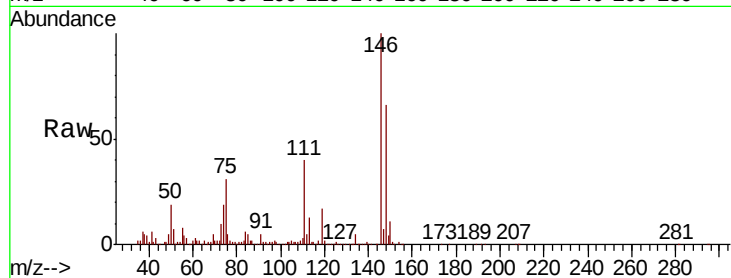
Tot Ion:146 Resp: 362209

Ion Ratio Lower Upper

146 100

111 40.2 19.3 57.9

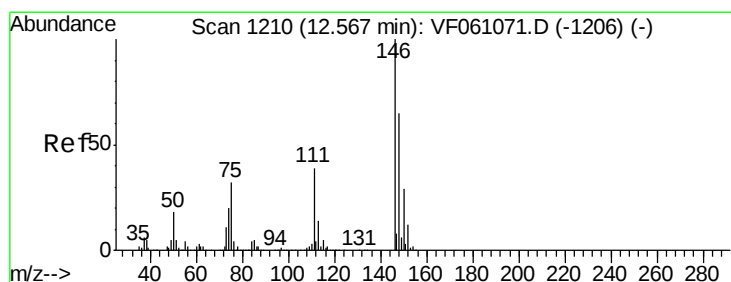
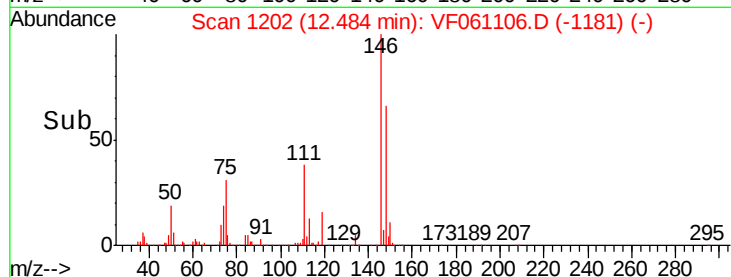
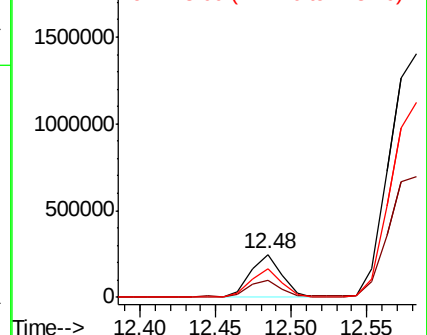
148 65.7 32.4 97.2



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



#88

1,4-Dichlorobenzene

Concen: 45919.709 ug/l

RT: 12.58 min Scan# 1212

Delta R.T. 0.02 min

Lab File: VF061106.D

Acq: 20 Dec 2018 14:19

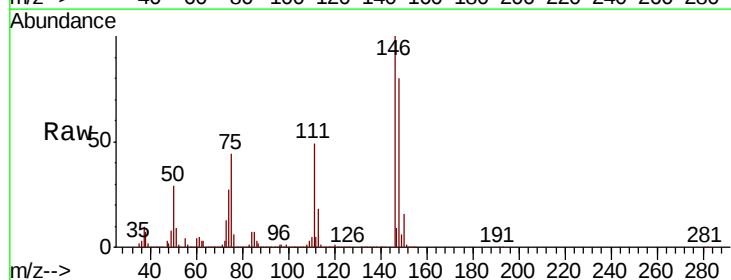
Tgt Ion:146 Resp: 2685706

Ion Ratio Lower Upper

146 100

111 49.4 19.4 58.4

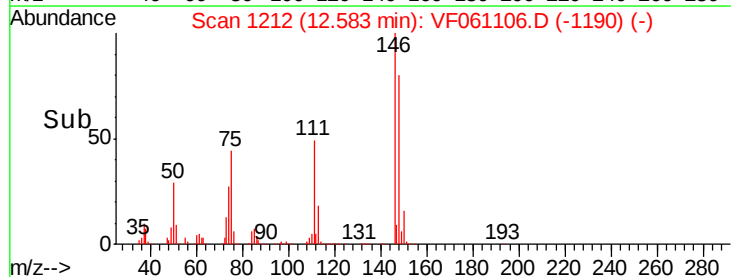
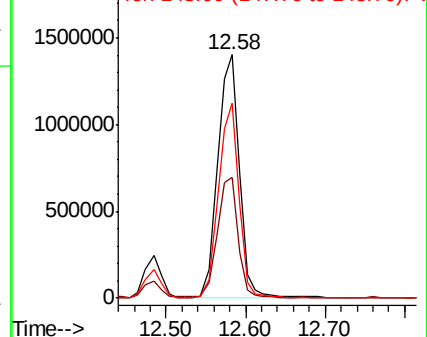
148 79.9 32.4 97.0

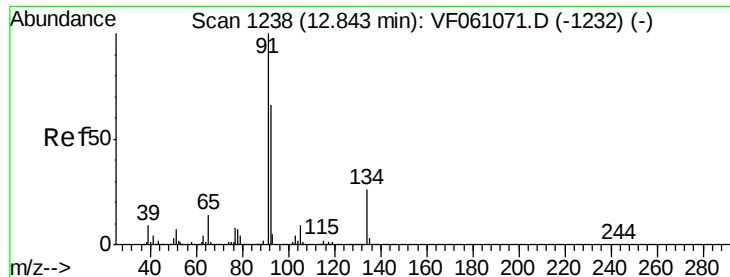


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#89

n-Butylbenzene

Concen: Below Cal

RT: 12.85 min Scan# 1239

Delta R.T. 0.01 min

Lab File: VF061106.D

Acq: 20 Dec 2018 14:19

Instrument :

MSVOA_F

ClientSampleId :

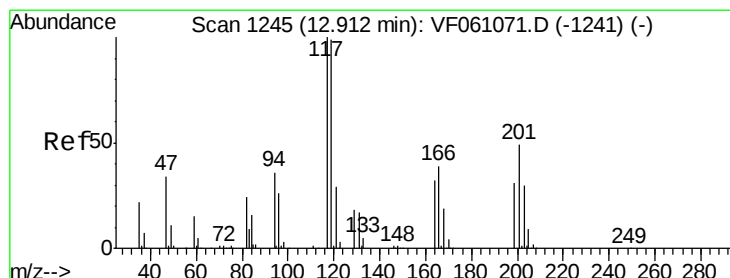
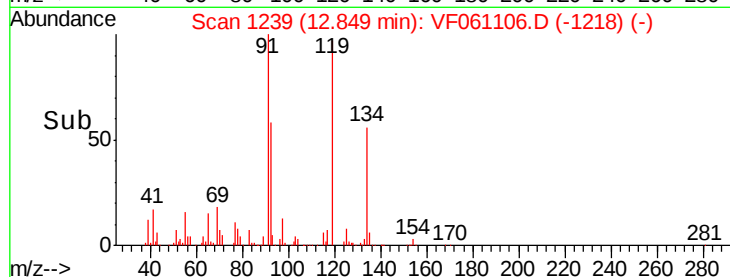
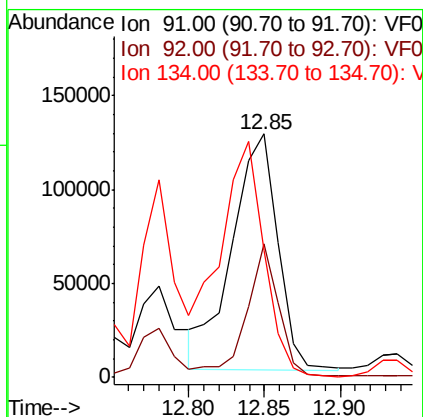
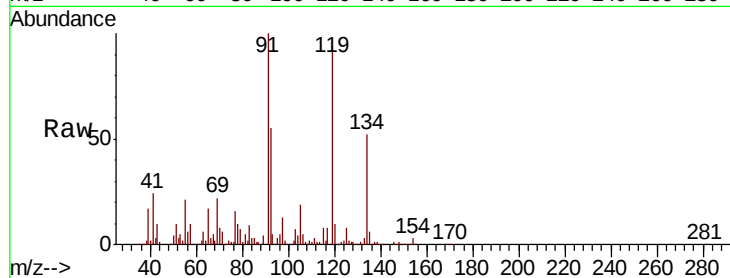
Tot Ion: 91 Resp: 263974

Ion Ratio Lower Upper

91 100

92 54.7 32.8 98.4

134 52.4 13.2 39.5#



#90

Hexachloroethane

Concen: 182.399 ug/l

RT: 12.94 min Scan# 1248

Delta R.T. 0.03 min

Lab File: VF061106.D

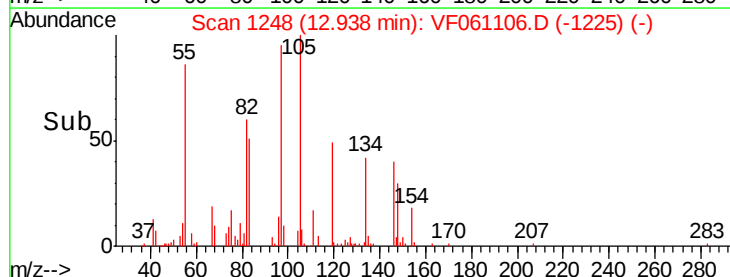
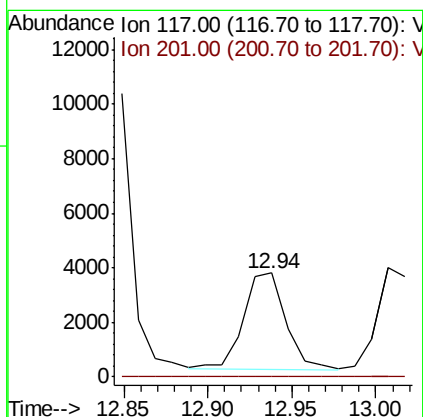
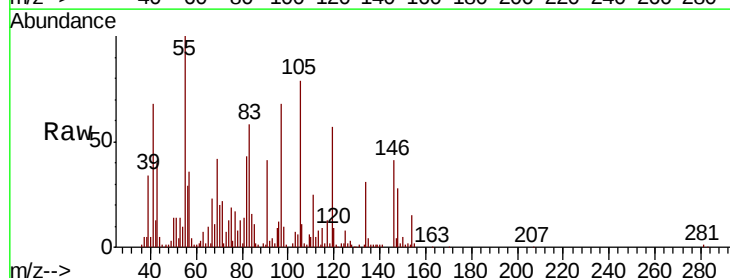
Acq: 20 Dec 2018 14:19

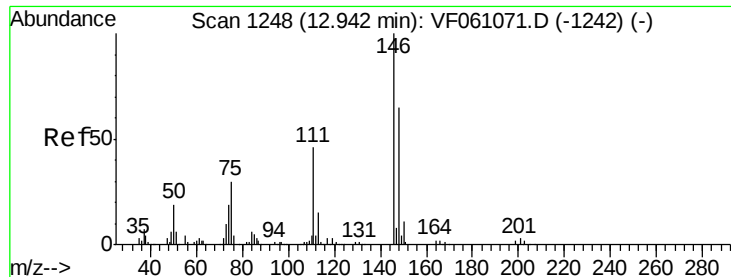
Tgt Ion: 117 Resp: 6120

Ion Ratio Lower Upper

117 100

201 0.0 24.9 74.8#

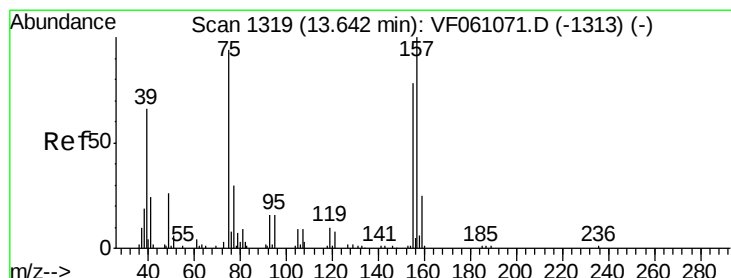
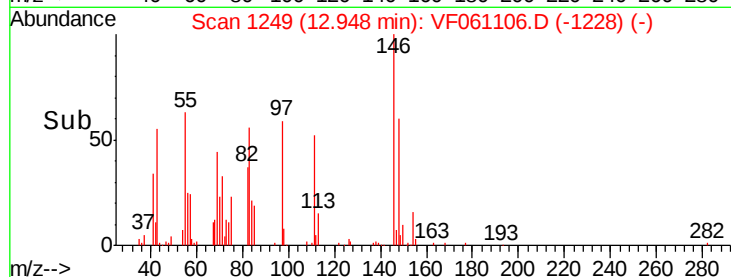
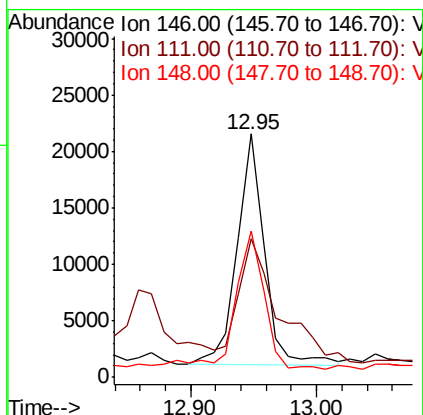
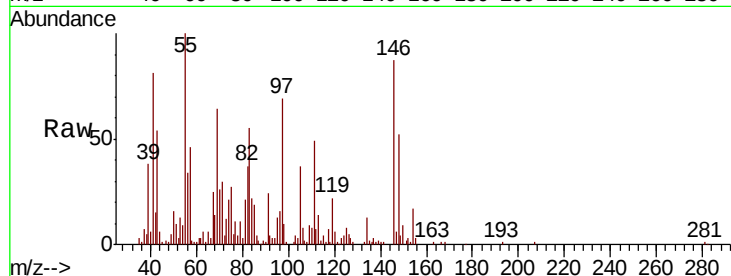




#91
 1,2-Dichlorobenzene
 Concen: 543.045 ug/l
 RT: 12.95 min Scan# 1249
 Delta R.T. 0.01 min
 Lab File: VF061106.D
 Acq: 20 Dec 2018 14:19

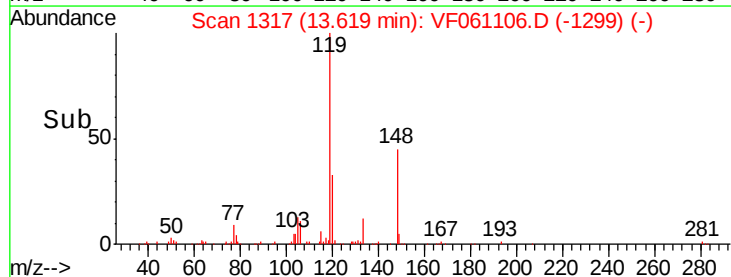
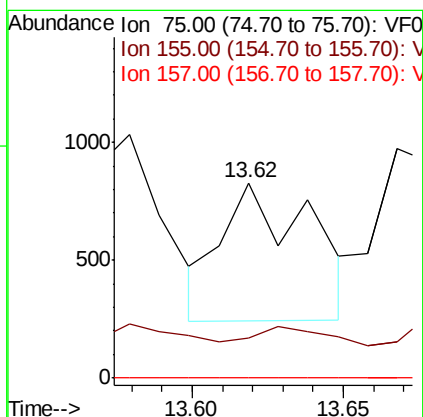
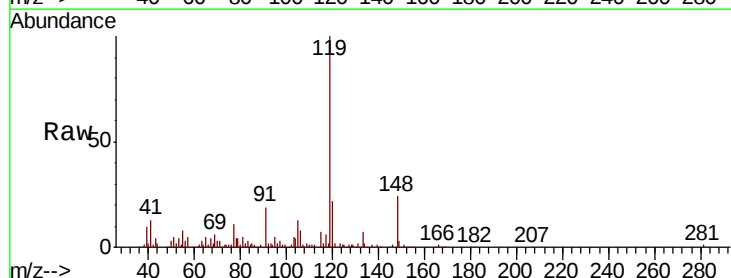
Instrument :
 MSVOA_F
 ClientSampleId :

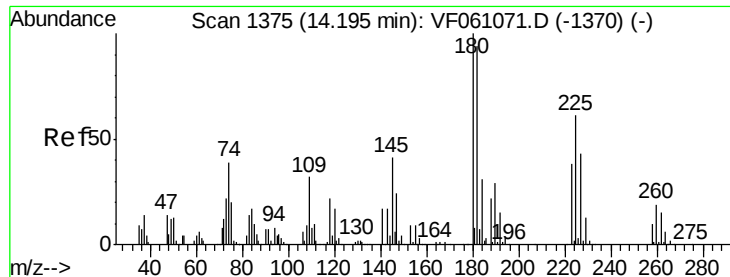
Tot Ion:146 Resp: 30922
 Ion Ratio Lower Upper
 146 100
 111 57.0 23.2 69.5
 148 60.1 32.4 97.0



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 262.966 ug/l
 RT: 13.62 min Scan# 1317
 Delta R.T. -0.02 min
 Lab File: VF061106.D
 Acq: 20 Dec 2018 14:19

Tgt Ion: 75 Resp: 1185
 Ion Ratio Lower Upper
 75 100
 155 20.4 41.5 124.5#
 157 0.0 53.2 159.6#

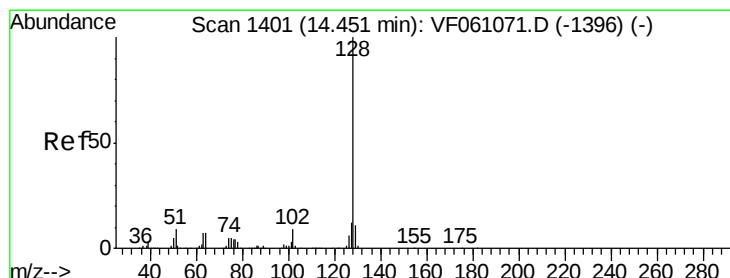
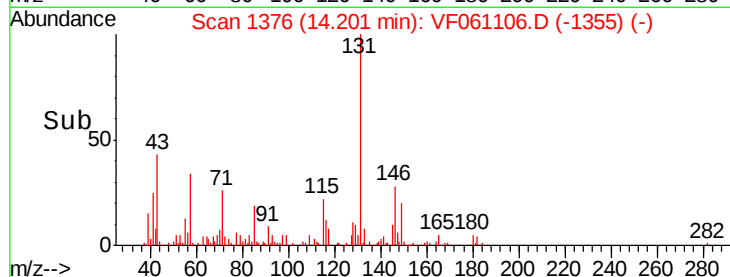
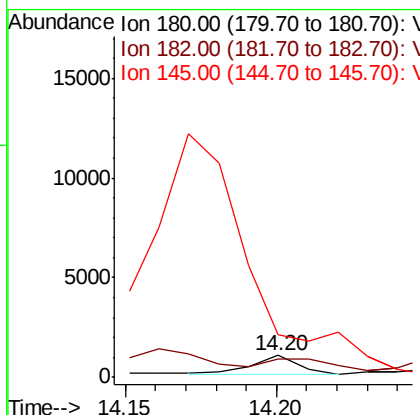
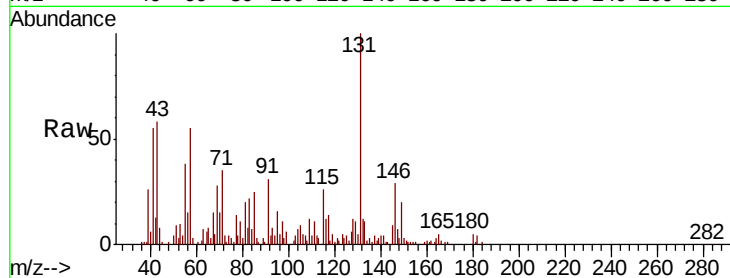




#93
1,2,4-Trichlorobenzene
Concen: 24.193 ug/l
RT: 14.20 min Scan# 1376
Delta R.T. 0.01 min
Lab File: VF061106.D
Acq: 20 Dec 2018 14:19

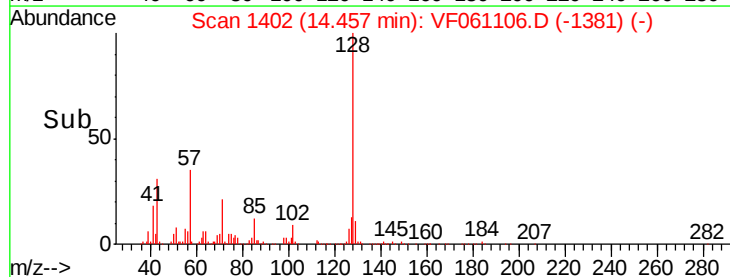
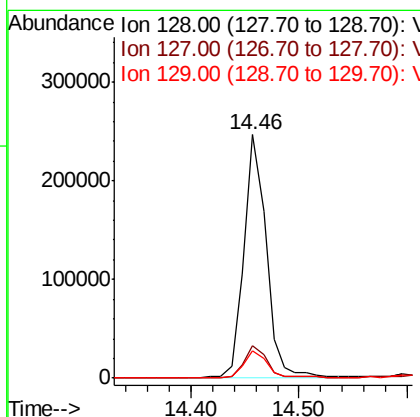
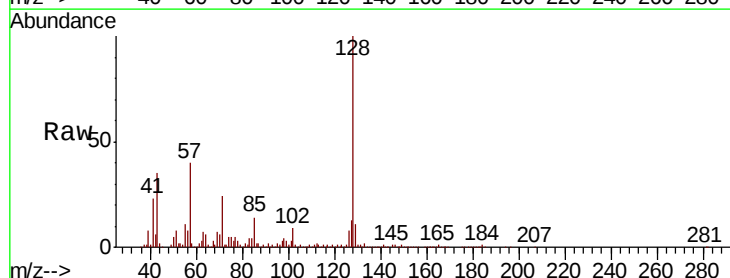
Instrument :
MSVOA_F
ClientSampleId :

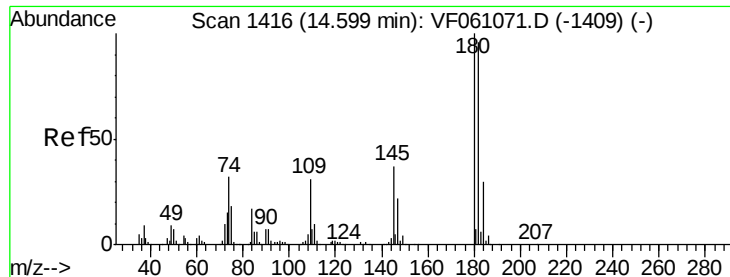
Tot Ion:180 Resp: 977
Ion Ratio Lower Upper
180 100
182 85.2 46.9 140.6
145 195.3 20.5 61.6#



#95
Naphthalene
Concen: 4796.993 ug/l
RT: 14.46 min Scan# 1402
Delta R.T. 0.01 min
Lab File: VF061106.D
Acq: 20 Dec 2018 14:19

Tgt Ion:128 Resp: 353733
Ion Ratio Lower Upper
128 100
127 13.4 9.4 14.2
129 11.4 8.8 13.2

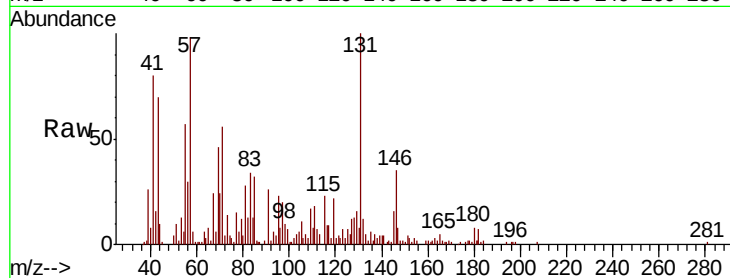




#96
 1,2,3-Trichlorobenzene
 Concen: 45.323 ug/l
 RT: 14.61 min Scan# 1417
 Delta R.T. 0.01 min
 Lab File: VF061106.D
 Acq: 20 Dec 2018 14:19

Instrument :
 MSVOA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	88.3	47.9	143.8
145	204.2	18.6	55.8



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

