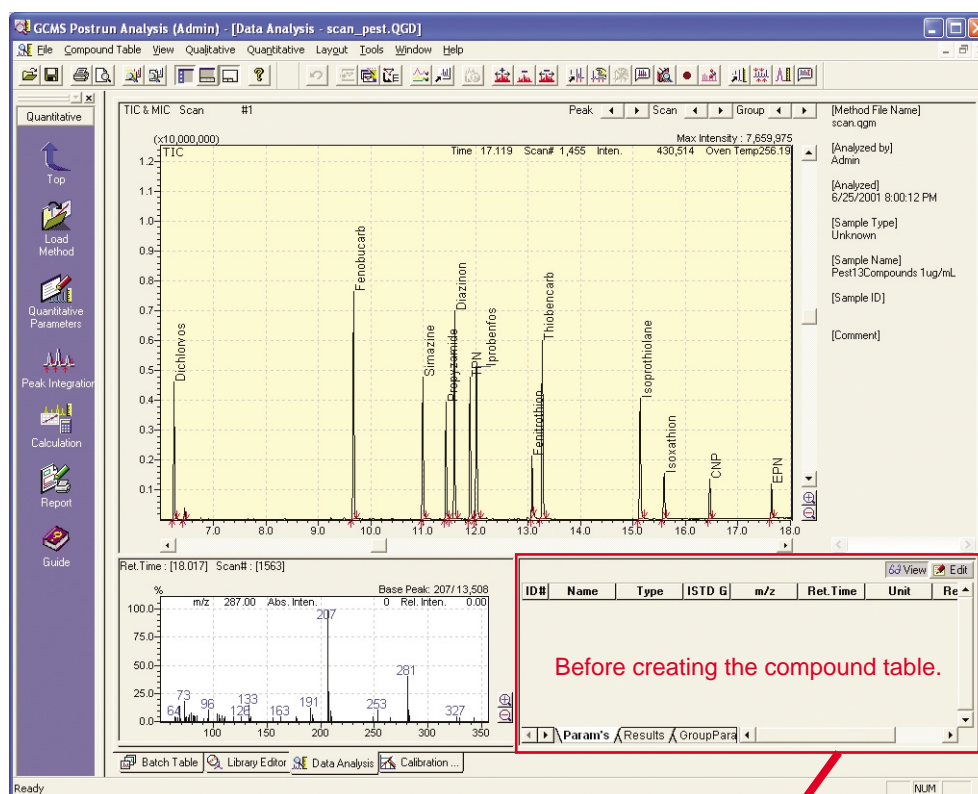


GCMSsolution (Part 2)

– Creation of Compound Table using the Wizard Function –

A wizard function for setting parameters of quantitative analysis has been included in the "GCMSsolution" software. Based on the results of scan measurements, a compound table for quantitative analysis can be

created easily. In this issue of the Application News, we will show an example of using this wizard feature to create a compound table and output a mass chromatogram.



Example of compound table created with wizard function.

ID#	Name	Type	ISTD G	m/z	Ret. Time	Unit	Ref. Ions	Conc. 1
2	Fenobucarb	Target	0	150.00	9.667	ug/L	1	100
3	Simazine	Target	0	201.00	10.992	ug/L	1	100
4	Propyzamide	Target	0	173.00	11.433	ug/L	1	100
5	Diazinon	Target	0	304.00	11.592	ug/L	1	100
6	TPN	Target	0	266.00	11.892	ug/L	1	100
7	Iprobenfos	Target	0	204.00	12.017	ug/L	1	100
8	Fenitrothion	Target	0	277.00	13.075	ug/L	1	100
9	Thiobencarb	Target	0	100.00	13.267	ug/L	1	100
10	Isoprothiolane	Target	0	290.00	15.133	ug/L	1	100
11	Isoxathion	Target	0	313.00	15.592	ug/L	1	100
12	CNP	Target	0	317.00	16.467	ug/L	1	100
13	EPN	Target	0	157.00	17.642	ug/L	1	100

Fig.1 GCMSsolution reanalysis screen

By processing the peak detection of a total ion chromatogram (TIC-See upper level of Fig. 1) for a standard 1mg/L sample of ten organo-phosphorus pesticides measured using the scan mode, the peaks for the target substances can be determined. This mass spectrum is then recorded in a spectral processing table. The compound table is created by

using this data and the wizard function illustrated in Fig. 2. Fig. 1 shows the compound table that was produced. Fig. 3 shows an example of using the report function to produce output of the quantitation ion and confirmation ion chromatograms for each substance from the compound table that was created using the data shown in Fig. 1.

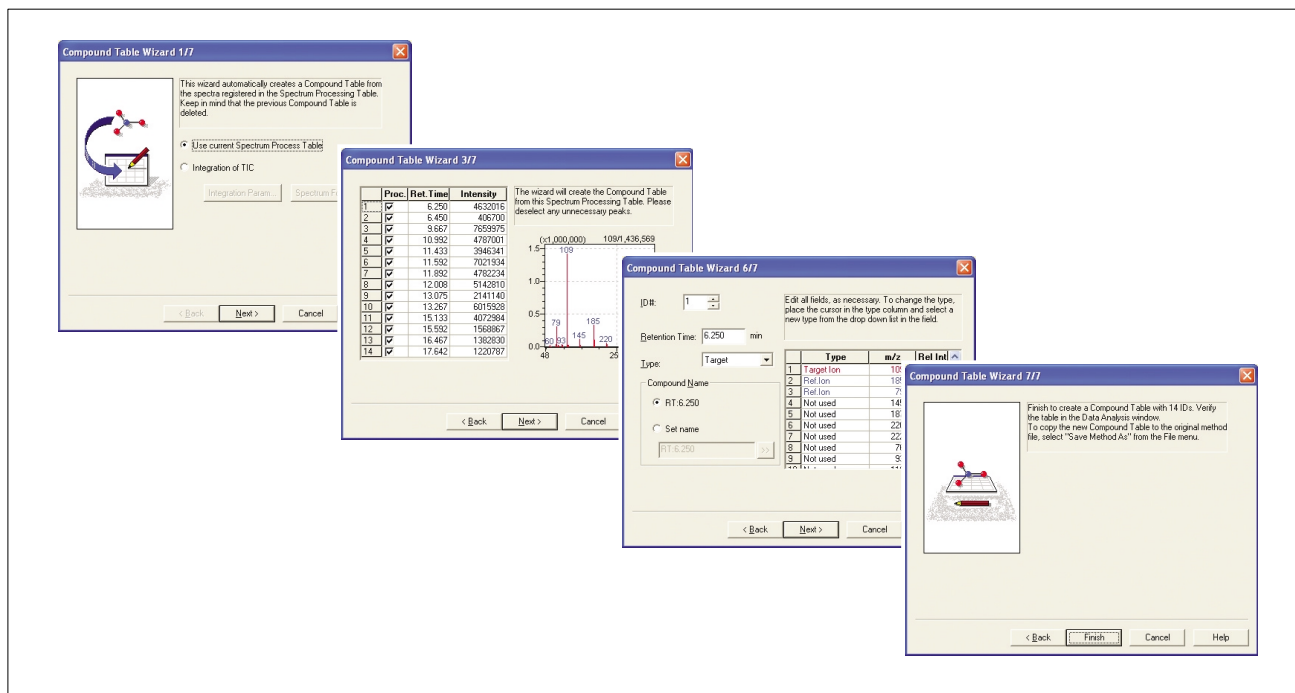


Fig.2 Wizard screen

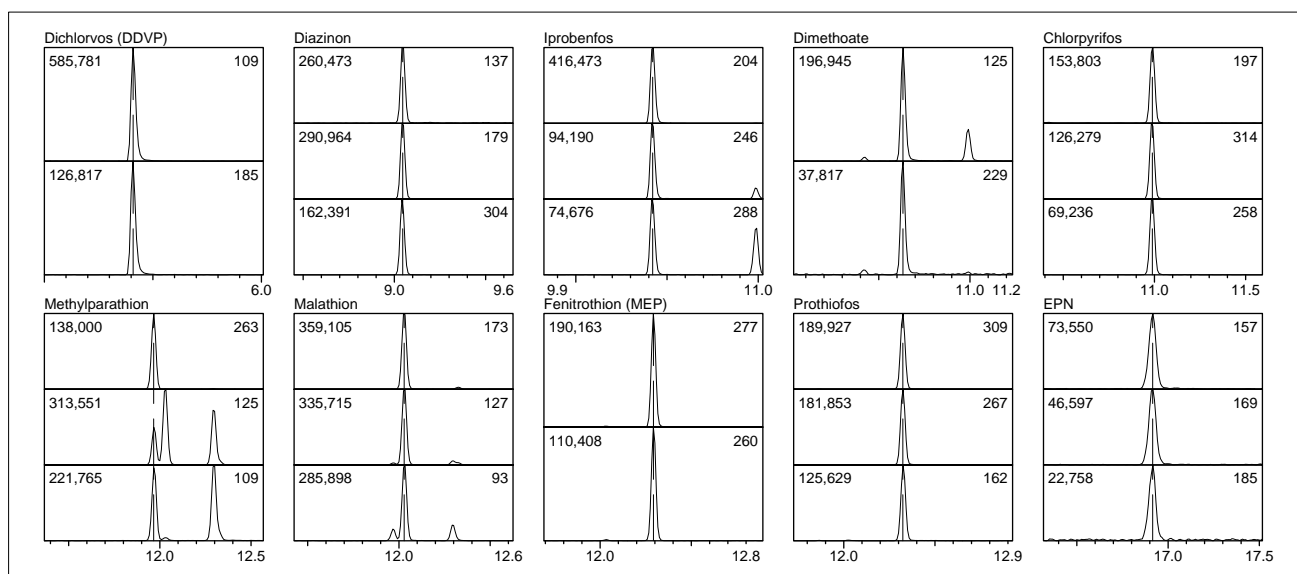


Fig.3 Mass Chromatogram of Organophosphorus Pesticides

The compound table creation wizard allows compound tables to be created easily. In addition, when setting ion mass numbers for the quantitation ion or confirmation, they can be selected from mass numbers or spectra shown on the screen, so entry errors can be prevented. Furthermore, the software

will automatically calculate and set the confirmation ion ratio. Until now compound tables were entered manually, but the wizard function of GCMSSolution allows compound tables to be constructed accurately and rapidly.



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