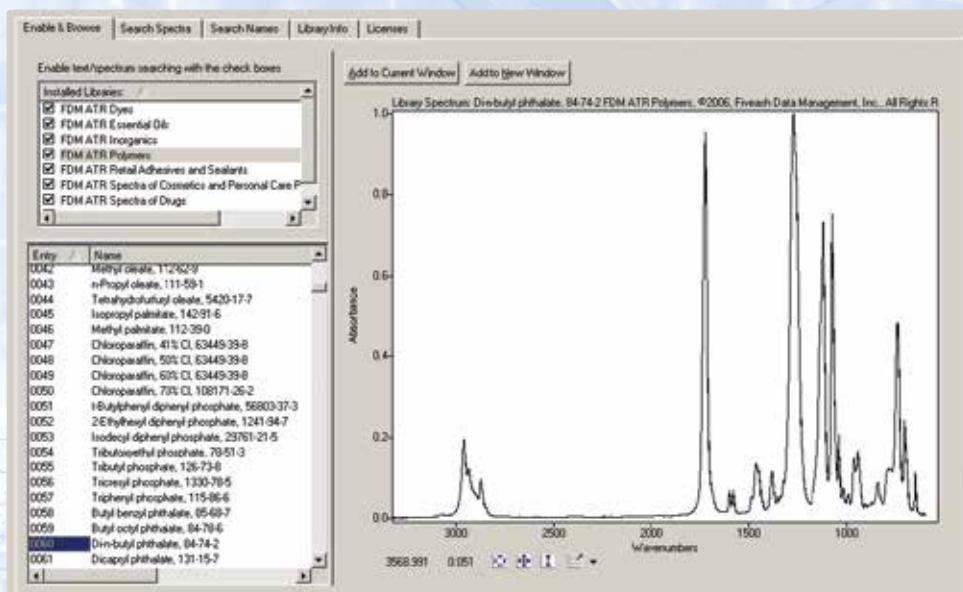


FDM ALL ATR Bundle

Expanded to 12 libraries, 6,780 spectra

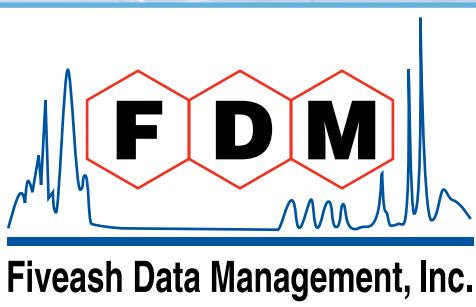
- FDM ATR Polymers Diamond – 1084 spectra
- FDM ATR Organics Diamond – 1,515 spectra
- FDM ATR Inorganics Diamond – 498 spectra
- FDM ATR Dyes Diamond – 150 spectra
- FDM ATR Cosmetics – 567 spectra
- FDM ATR Retail Adhesives & Sealants – 458 spectra

- FDM ATR Polymers Germanium – 450 spectra
- FDM ATR Organics Germanium – 420 spectra
- FDM ATR Inorganics Germanium – 587 spectra
- FDM ATR Dyes Germanium – 150 spectra
- FDM ATR Drugs – 440 spectra
- FDM ATR Essential Oils – 460 spectra



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Why Diamond ATR Spectra?

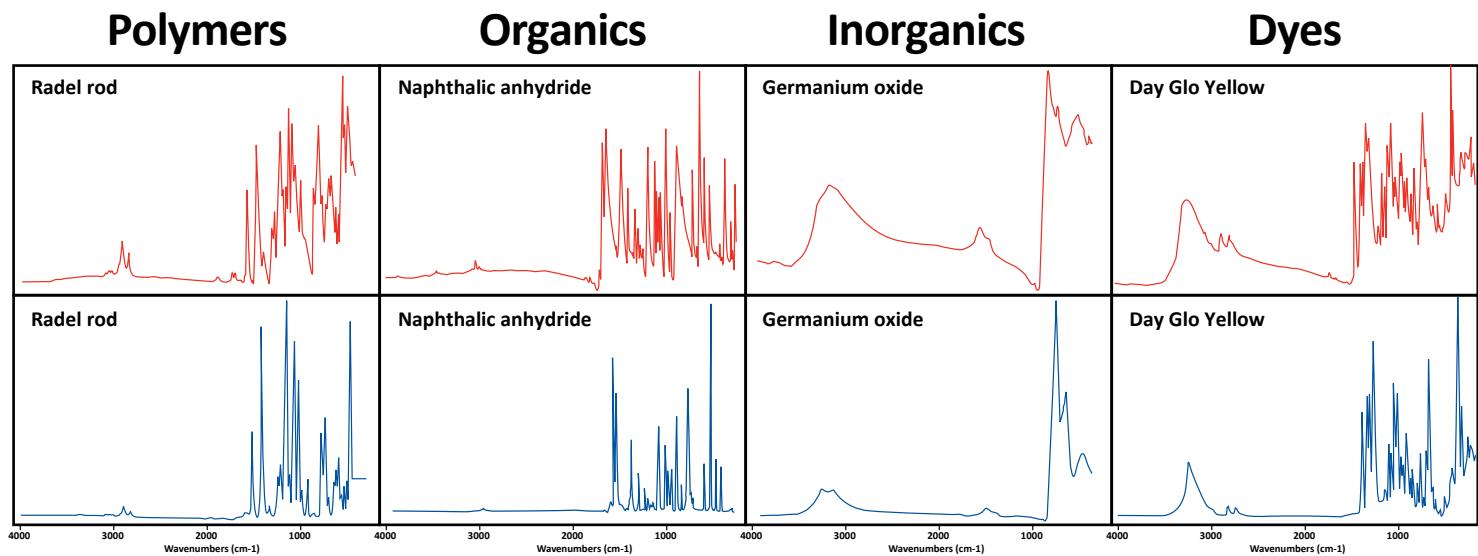
- Wider spectral range than ZnSe
- Improved baselines compared to diamond on ZnSe crystals
- Improved baselines compared to a diamond /ZnSe hybrid crystal
- Suitable for a wide range of compounds

Why Germanium ATR spectra?

- Ge's high refractive index (4.0) tames ugly refractive index problems seen on lower refractive index ATR crystals like diamond (2.4) or ZnSe (2.4).
- Excellent, very clean baselines
- Highly reproducible
- No phonon bands
- Transmission-like peak shapes
- Spectra run on a Ge ATR crystal are superior to running ATR correction algorithms on spectra run on diamond and/or ZnSe ATR crystals.

Why both?

- So you can see everything



These spectra show how diamond spectra (top) and Germanium spectra (bottom) can differ.

FDM ATR Organics Diamond	1515	2 cm-1	400 cm-1	4000 cm-1	Diamond
FDM ATR Organics Germanium	422	2 cm-1	600 cm-1	4000 cm-1	Germanium

Small organic molecules, flavor & fragrances, biochemicals, peptides, solvents and much more.

FDM ATR Inorganics Diamond	498	2 cm-1	400 cm-1	4000 cm-1	Diamond
FDM ATR Inorganics Germanium	586	2 cm-1	550 cm-1	4000 cm-1	Germanium

Common and less common inorganics, organometallics, boron compounds. Excellent coverage of oxides and oxide anions.

FDM ATR Dyes Diamond	155	2 cm-1	400 cm-1	4000 cm-1	Diamond
FDM ATR Dyes Germanium	163	2 cm-1	550 cm-1	4000 cm-1	Germanium

Dyes, pigments and stains. Includes CI (Color Index) and CAS numbers.

FDM ATR Polymers	1137	2 cm-1	400 cm-1	4000 cm-1	Diamond + Ge
Neat plasticizers, monomers, polymers, copolymers, terpolymers. Tradename polymer additives. Common and engineering plastics, rubbers. 54 spectra run on a Germanium ATR crystal.					

FDM ATR Essential Oils	463	2 cm-1	400 cm-1	4000 cm-1	Diamond
Essential oils and food oils. Important for flavor & fragrances, some drugs.					

FDM ATR Drugs	440	4 cm-1	500 cm-1	4000 cm-1	Diamond
Legal and illegal drugs run on a monolithic diamond ATR crystal.					

FDM ATR Retail Adhesives & Sealants	458	2 cm-1	400 cm-1	4000 cm-1	Diamond
Consumer adhesives & sealants from a wide variety of manufacturers. Many applications.					

FDM ATR Cosmetics	567	2 cm-1	650 cm-1	4000 cm-1	ZnSe, Ge
Retail cosmetic and hygiene products, raw materials. 60+ product classes.					