Agilent Technologies

scan view

User guide

2022-09-01

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Introduction

SCANVIEW is a user-friendly search program to access the extensive database of Agilent chromatograms and application notes. The Application Notes help you to setup new analytical methods without re-inventing the wheel or they show you how you can improve your current methods.

The Program
SCANVIEW gives access to more than 6100 Application Notes. To let you find the applications of your interest, you can build filters that consist of selections on multiple categories like component names, groups, matrices etc. While the search program is extremely powerful and flexible, the use of it has been kept very simple, so that you probably don't even need these help texts.

Support
Should you not find the application of interest to you, then please contact our technical support departments, they have access to the latest updates of Application Notes and may be able to help you.

You can contact the Scanview support via scanview@agilent.com

Naming Conventions in Scanview

Compound names
For the compound names the IUPAC-naming convention is used as often as possible. Below you will find a list of examples for different compounds. In some cases, alternate names are used in SCANVIEW.

- Esters are spelled with a space like ethyl acetate, this in contrast with ethylbenzene
- OH-groups are spelled as hydroxy- or -ol. When the name becomes too long it will be spelled like OH.
- alpha, beta, gamma and omega are written respectively as a-, b-, c- and w- or as .alpha., .beta., .gamma. and .omega.

  "a-lindane" becomes "lindane a-" or "lindane .alpha.-"

- The prefix n- for n-butane is left out, so use butane
- Hydrocarbons up to C12 are written with their full names like decane, undecane and dodecane. Higher hydrocarbons are spelled with their carbon number, like C13, C14 etc.
- Fatty acid methyl esters are designated as FAME C14:0, which means a C14 FAME with 0 double bonds
- Optically active compounds are, as far as the separation of the enantiomers is concerned, taken up with the prefix d-, l- or dl- as well as (R), (S) and (RS)

  "d-leucine" becomes "leucine d-"

- All prefixes are placed behind the basic compound name (two spaces distance), to get them in a better alphabetical order. In this way you will see

  "1,1-dimethylcyclohexane" becomes "dimethylcyclohexane 1,1-"
  "1-chloro-2-fluoroethane" becomes "fluoroethane 1-chloro-2-"

- All names are lower case except for atoms indicating position as in N,N-dimethylformamide or Cahn-Ingold-Prelog prefixes for stereo- and regiochemistry like (S), (R), (E), (Z)

  "N-methyl-(S)-leucine" becomes "leucine N-methyl-(S)-"
  "N,N-dimethylformamide" becomes "dimethylformamide N,N-"

- Due to programming code restrictions all rectangular brackets "[" and "]" are replaced by standard brackets "(" and ")"

  "benzo[a]pyrene" becomes "benzo(a)pyrene"

- Triglycerides are given as triglycerides Cn where n is the number of carbon atoms in the side chain. If known the Triglycerides are designated as the fatty acids they are composed of, using the abbreviation below. So triglycerides PPO stands for a triglyceride with two molecules of palmitic acid and one molecule of oleic acid.

Bu	Butyric acid,	butanoic acid,	C4:0
Co	Caproic acid,	hexanoic acid,	C6:0
Cy	Caprylic acid,	octanoic acid,	C8:0
C	Capric acid,	decanoic acid,	C10:0
La	Lauric acid,	dodecanoic acid,	C12:0
M	Myristic acid,	tetradecanoic acid,	C14:0
P	Palmitic acid,	hexadecenoic acid,	C16:0
Mg	Margaric acid,	heptadecanoic acid,	C17:0
S	Stearic acid,	octadecanoic acid,	C18:0
A	Arachidic acid,	eicosanoic acid,	C20:0
Be	Behenic acid,	docosanoic acid,	C22:0
Lg	Lignoceric acid,	tetracosanoic acid,	C24:0
Ce	Cerotonic acid,	hexacosanoic acid,	C26:0
Po	Palmitoleic acid,	cis-9-hexadecnoic acid,	C16:1
O	Oleic acid,	cis-9-octadecenoic acid,	C18:1
E	Elaidic acid,	trans-9-octadecenoic acid,	C18:1
L	Linoleic acid,	cis,cis-9,12-octadecadienoic acid,	C18:2
Ln	Linolenic acid,	cis,cis,cis-9,12,15-octadecatrienoic acid,	C18:3
Ga	Gadoleic acid,	cis-11-eicosenoic acid,	C20:1
Er	Erucic acid,	cis-13-docodenoic acid,	C22:1
U	unsaturated fatty acid with 18 carbon atoms (O,L,Ln)		

Synonyms
Scanview contains ca. 11000 unique component names and ca. 18000 synonyms for these names. Synonyms are marked with an ending hash mark in a name.

The components of an application note are primarily written in the way the author puts them in the text (and then the Scanview conventions applied), but sometimes the component can have different names. For example:

‘p-Xylene’ with Scanview conventions is ‘xylene p-‘, but can also be named ‘1,4-xylene’ (xylene 1,4-) or ‘1,4-dimethylbenzene’ or ‘p-dimethylbenzene’. All those names point to the same component in Scanview.

When you search for a name, you will see:

xylene p-	xylene 1,4- #	1,4-xylene #
1,4-dimethylbenzene #	dimethylbenzene 1,4- #	
p-dimethylbenzene #	dimethylbenzene p-	

All of those can be used for searching leading to the right component in an application note.

Since version 2023 the synonyms table also contains the component name without Scanview conventions, see line three above ‘1,4-xylene’, to make it even easier to search.

Compound Groups
Aliphatic hydrocarbons are designated as hydrocarbons Cn-Cnn.
Aromatic hydrocarbons are designated as hydrocarbons Cn-Cnn aromatic
This field also contains entries like Impurities in..., EPA methods, sample types (e.g., fish oil) and the matrix of the sample (plasma, urine etc.)

GC Column names
The column names are the Agilent tradenames like DB-5ms UI, CP-Sil 5 CB, CP-Wax 52 CB, HP-5ms, VF-5ms or VF-WAXms, etc.

HPLC Column names
The column names are the Agilent tradenames like Zorbax, Pursuit, Polaris, PLgel or Poroshell, etc.

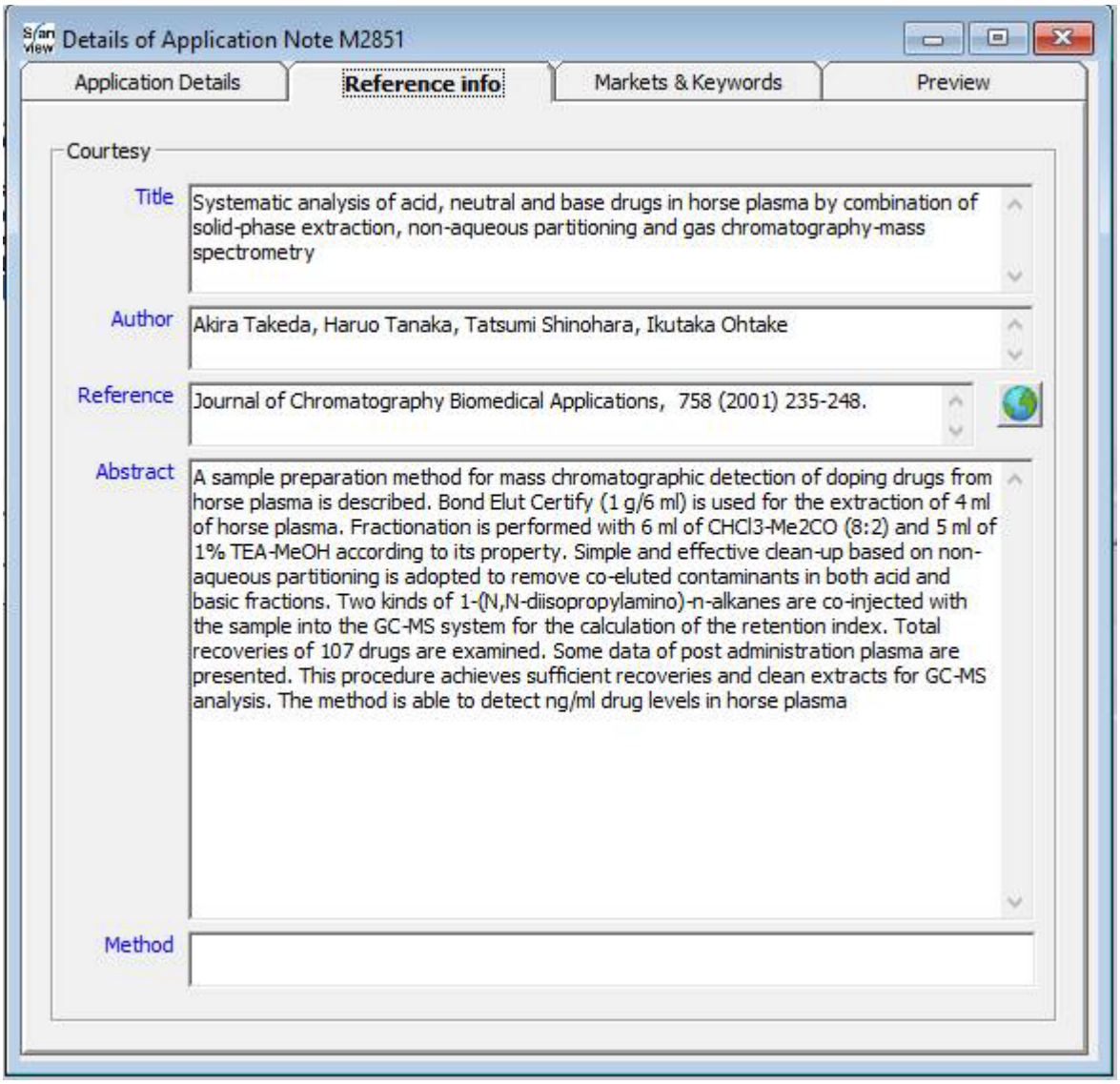
SPP Product names
Cartridge/Phase names are Agilent tradenames like Bond Elut, Chem Elut, Plexa, OMIX, etc.

Literature References and Documents

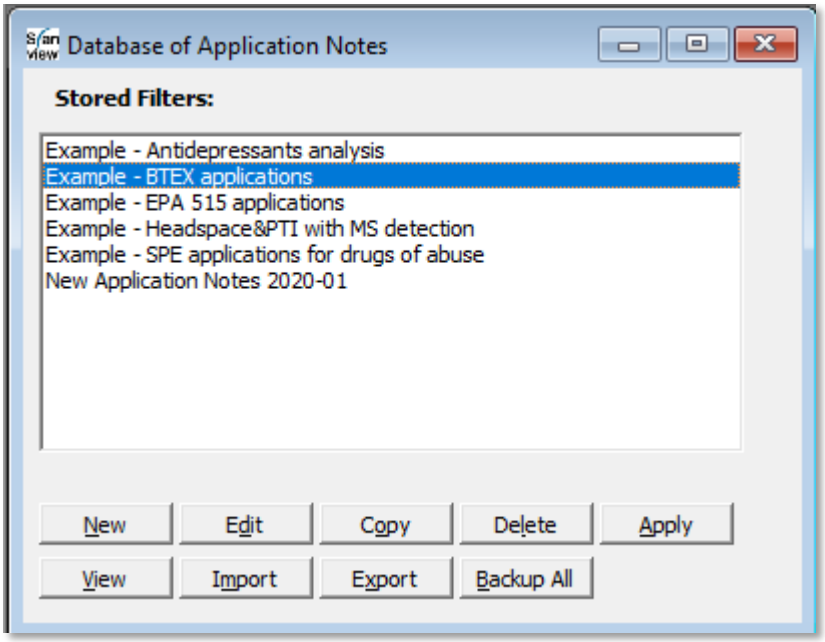
Besides full application notes, Scanview also contains literature references. Some have abstracts, some have not. The majority of solid phase extraction methods (M-numbers) are literature references, only the newest ones contain a full abstract of the method used. Also only literature references are the L-numbers.

Due to international copyright laws, we are **NOT allowed** to copy articles from journals and send them out. Please take the literature reference to your local library or use a document delivery service.

On the reference tab you will find a small globe icon enabled, if the literature reference is available online.



Main Window Options



The ‘Database of Application Notes’ window allows you to create and manage filters.

Filters
Filters are combinations of selections on the Application Note database, that help you to find the Application Notes of your interest. They are stored in the database itself.

The 'Filters'-tab shows you a list of predefined filters and filters that you made yourself. Select a filter by clicking on it and click one of the buttons at the bottom to create a new filter (New), modify an existing filter (Edit), immediately see the result of an existing filter without going through the wizard (Apply), display an overview of a filter (View), make a copy of a filter for further refining (Copy) or remove a filter permanently (Delete ; this option will not delete any Application Data).

A 'rename'-option is available by clicking with your right-mouse key on a filter-name or through the Edit-menu.

The options 'New' and 'Edit' are also available on the toolbar, which allows for quicker operation.

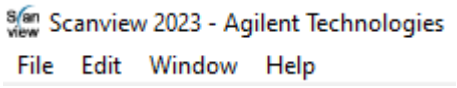
To export a filter to a XML-file with the extension SVF (ScanView Filter) use ‘Export’, ‘Backup All’ will export all filters into one single file, named allfilters.svf.

To import an XML-file use ‘import’.

Note
The sizes of most windows are stored at the last used format when you close them, but they are not accessible through the configuration setup.

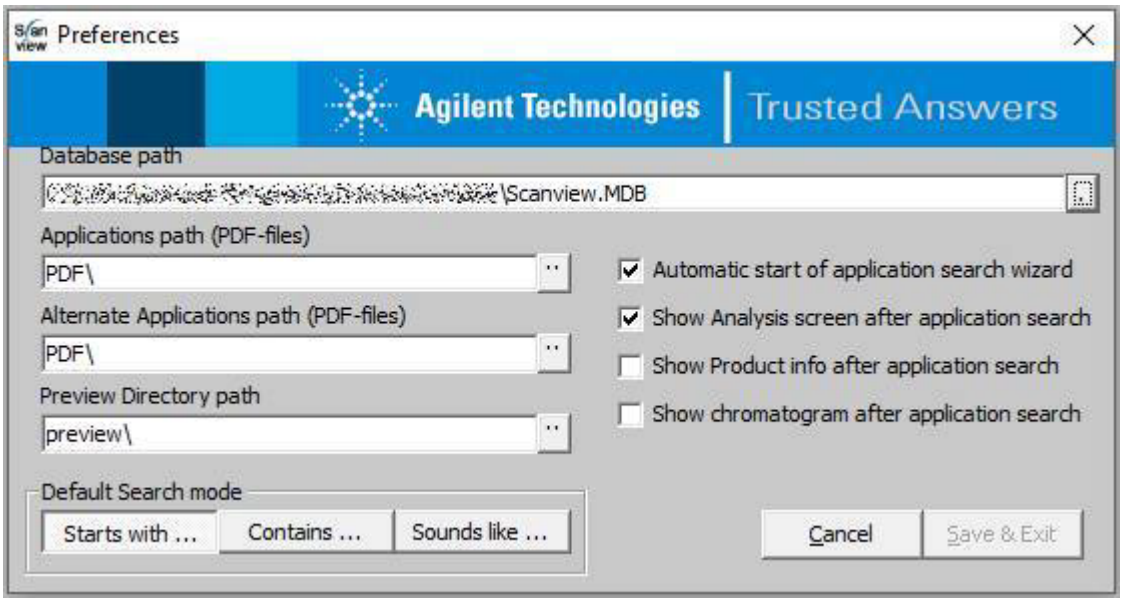
Menu bar - Introduction

The menu bar changes dependent on the active form you are in, but there are still some fixed topics like the File, Edit, Window and Help.



File normally lets you exit Scanview or at least the current filter.

Edit contains the Preferences entry:



The database path is automatically put in from the Scanview.ini file.

All applications come from Agilent's online *Technical Library*, but you could save some documents locally and then let the two fields "Application Path" and "Alternate Application Path" point to that directory. Preview Directory path points to the directory containing the application note preview files (JPG).

Preferences are stored in the Scanview.ini file.

You can also select your default search mode, when starting a new search. The default value is "Starts with ...".

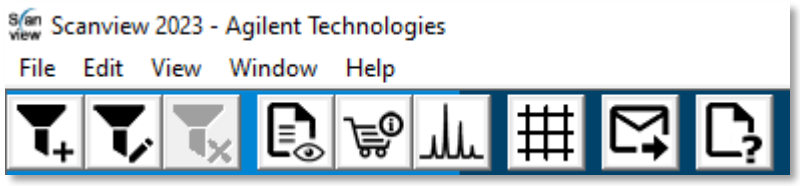
Save & Exit writes the values to the Scanview.ini file.

Menu bar - Help

See main Help topic.

Toolbar - General

The toolbar is visible at every stage of the program to enable common tasks to be carried out faster.



- Create a new filter
- Edit existing filter
- Undo last changes in filter

- Show application details
- Show product information
- View application note

- View component grid

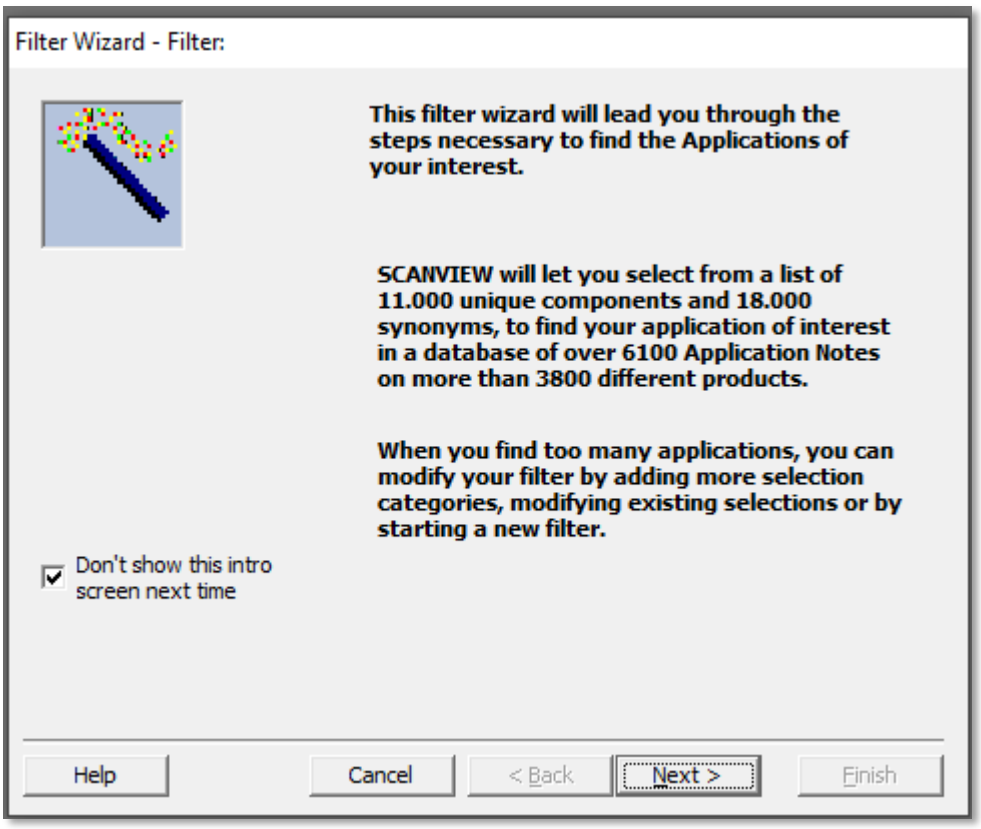
- Create an email

- Help

Filter Wizard - Introduction

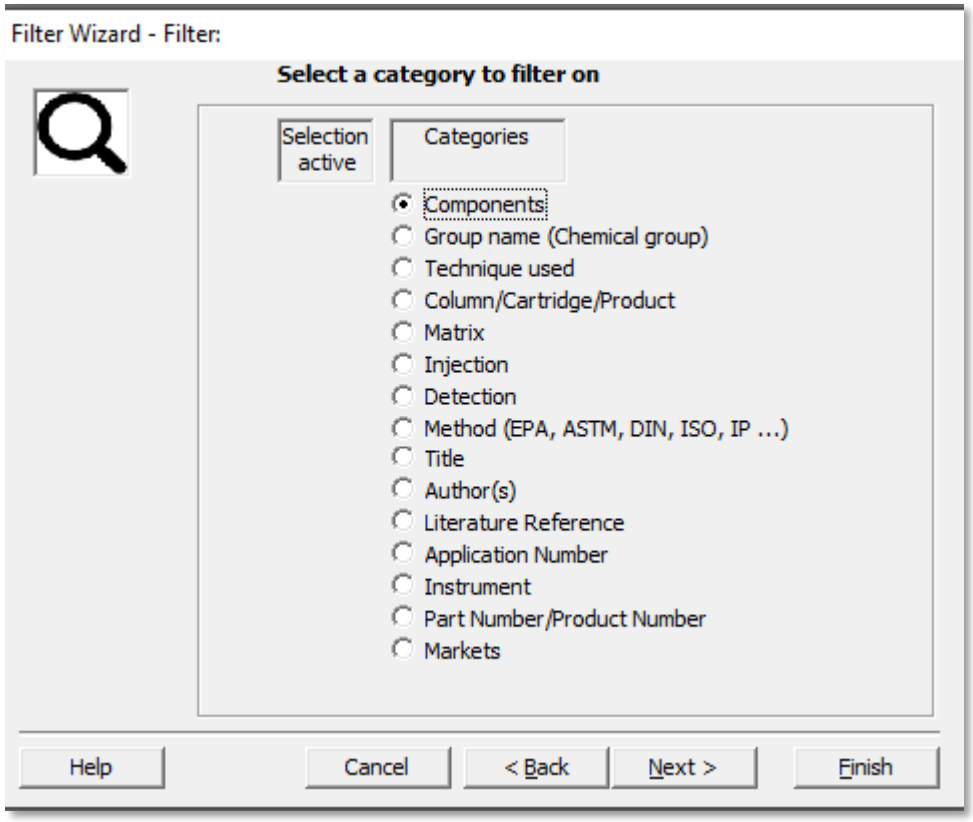
Proceed with building your filter with selection criteria by pressing 'Next'. If you want to stop building or modifying this filter, then press 'Cancel'.

You can choose to skip this Wizard introduction screen by checking the checkbox: 'don't show this intro screen next time'



If you later decide that you do want to see the introduction screen, then you can press 'Back' from the next Wizard screen.

Filter Wizard - Select Category



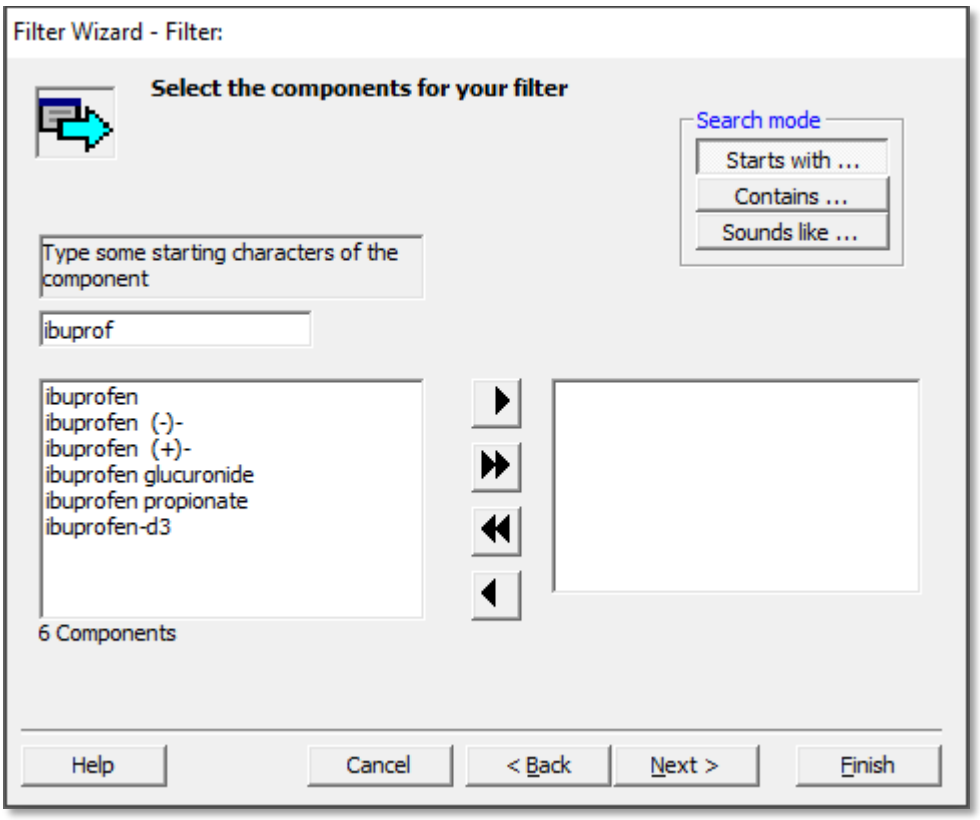
Select one of the shown categories to start building your filter by clicking on one of the 'radio'-buttons and press 'next'.
You can only select one category at a time, but you will be able to add more categories at a later stage in the Filter Wizard.

If you are modifying an existing filter, you will see checkmarks in front of those categories that are already part of the current filter. If you want to change the selection criteria for an already selected category, just select this category again and press 'Next'.

If you want to delete the selections of an already active category, select this category, press 'next' and delete the already selected items. Then press 'finish' to apply the changes.

Filter Wizard - Select Items

At this stage you can select the items for the selected category. By typing only a few characters, SCANVIEW will show a list of items, starting with the characters you typed. When you see the item that you want to select, single-click on the item and click on the right-arrow to transfer it to the list of selected items (**Tip**: double-clicking the item will do the same in faster way). Repeat this until you have completed your 'selected items'-list. Then press 'Next' for the next Wizard step.



Search Mode 1 - 'starts with ...'- mode
When you have selected the category 'components', type a few starting characters of the component name you are looking for (e. g. *ibuprof* when you are looking for *ibuprofen*). SCANVIEW will build a list of all component names that start with *ibuprof*.

- ▶ Adds the marked components to the right search box (same as double-click on the left side)
- ▶▶ Adds all visible components from the right box into the left search box
- ◀◀ Removes all components from the right box
- ◀ Removes the marked component from the right search box (same as double-click on the right side)

Please also read the section ‘SCANVIEW naming convention’ for details about component names

Search Mode 2 - 'contains ...'- mode
When you are looking for all components related to toluene (like 'amino-4-nitrotoluene' and 'chlorotoluene'), select search mode 'contains ...', then type 'toluene' and press 'Search'. SCANVIEW will show you all component names that contain the characters 'toluene'.

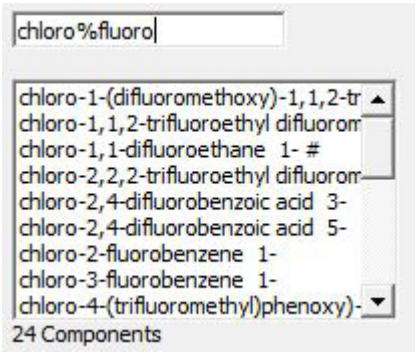
If you are looking for only the 'amino toluene'-components, then type 'amino' in the first block and 'toluene' in the second block and press 'Search'. Both search fields are connected via a logic AND, the order is neglected.

Search Mode 3 - 'sounds like ...'- mode
When you are not sure how to type the exact name of the component, then select search mode 'sounds like ...' and type the sound of the name (e.g. naftalene) and press 'Search'. SCANVIEW will build a list of components that have a part that sounds like naftalene (like naphthalene, acenaphthylene ...). The algorithm used is an adapted Soundex algorithm.

Using wildcards in the Search Modes
For Windows users the most known wildcards are the question mark '?' for one single character and the asterisk '*' for any number of characters. These do not work in Scanview as the program uses SQL (Structured Query Language) for the searches. With that the wildcards in SQL are the ones to use.

The equivalent to the question mark in SQL is the underscore '_', the one for the asterisk is the percent symbol '%'.

For example, if you search for any analyte containing 'chloro' and also after that 'fluoro' you enter chloro%fluoro in the search box:



Be aware of the order 'chloro' first, 'fluoro' second.

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Tip: when the component list is not wide enough to display the full name, click on the name and a yellow tag will appear with the full name.

Note: the item-list on the left will only show items that meet the selection criteria that you already entered earlier in this filter. So, if you first filtered on 'HPLC' as a technique and then want to filter on components, you will not see components like Methane or Carbon Dioxide as these components will not be analyzed using liquid chromatography.
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Filter Wizard - Add Another Category

At this stage you can decide to see the result of your current selection criteria by pressing 'finish'. This will apply your criteria to the SCANVIEW database and show you which Application Notes meet your filter.

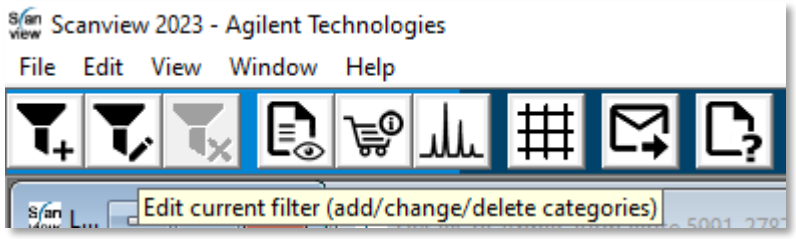
You could also decide to add another category to the current filter, by pressing the 'Add another category'-button. This will bring you back to the category selection screen, while keeping your previous selection in memory. In this way you can quickly build a filter consisting of selections on 3, 4 or more categories.

The next time that you reach this 'Add another category'-screen, you can press 'finish' to see the result of your filter.

Filter Wizard - Press Finish

This is the last screen of the Filter Wizard. Press 'finish' to apply your filter and see the resulting list of Application Notes.

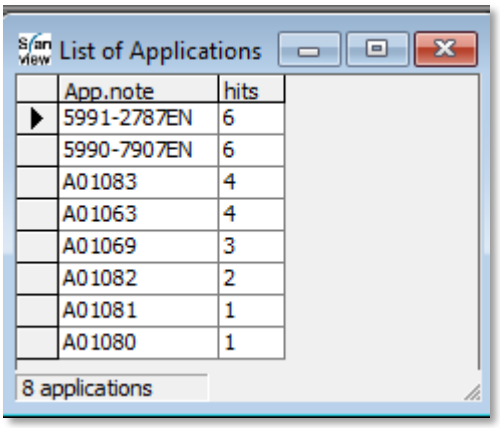
If you want to edit your filter after viewing the result, click the 'edit filter'-button on the toolbar, select the category you want to modify and add/change/delete items for the selected category.



If you can't find the Application Note of interest to you, contact the Scanview Support Department. They have access to the most up-to-date information and might be able to help you. You can contact them by sending an e-mail to scanview@agilent.com (press the 'globe'-button on the toolbar) and create an e-mail using the built-in e-mail option.

List of Applications

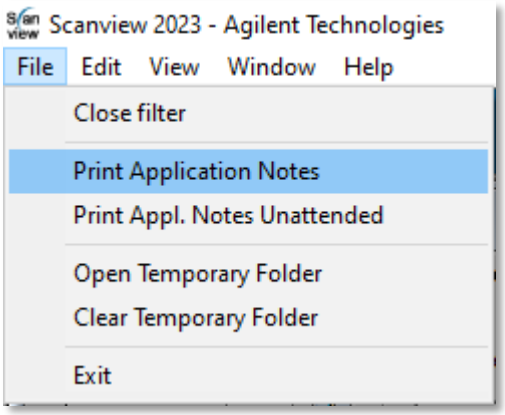
This window will show you the result of applying your filter to the SCANVIEW database. When you click on one of the found application numbers, the Application Details window will be updated (and so will the chromatogram window and Product Information window if they are opened).



The number under ‘hits’ indicates how many of the components you searched for are present in the application note. The ‘hits’ field is only included in component searches, not in any other search that does not include components.

Printing multiple Application Notes
When you want to print the chromatograms of multiple found applications, then select the applications you want to print (by keeping your Ctrl-key pressed and click with your mouse on the row-selector to the left of the application number).

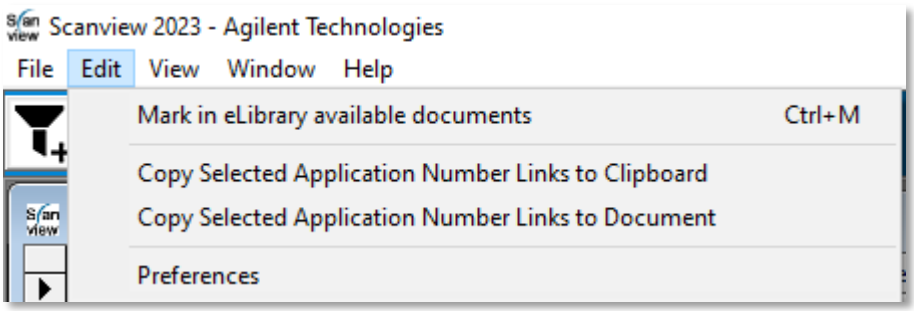
Then select the menu option File > Print Application Notes.



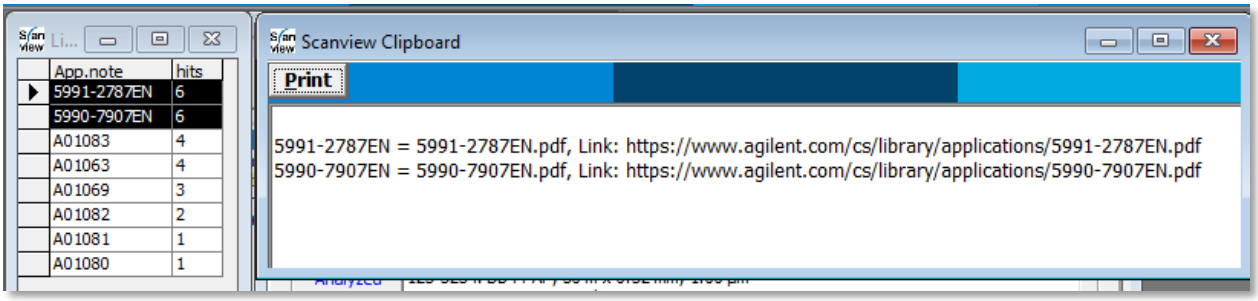
Copy the Hyperlinks to the selected Application Notes

When you want to send the hyperlinks of the selected applications notes to someone or just copy them to the Windows clipboard, then select the applications you want (by keeping your Ctrl-key pressed and click with your mouse on the row-selector to the left of the application number).

Then select the menu option Edit and one of the two COPY options.

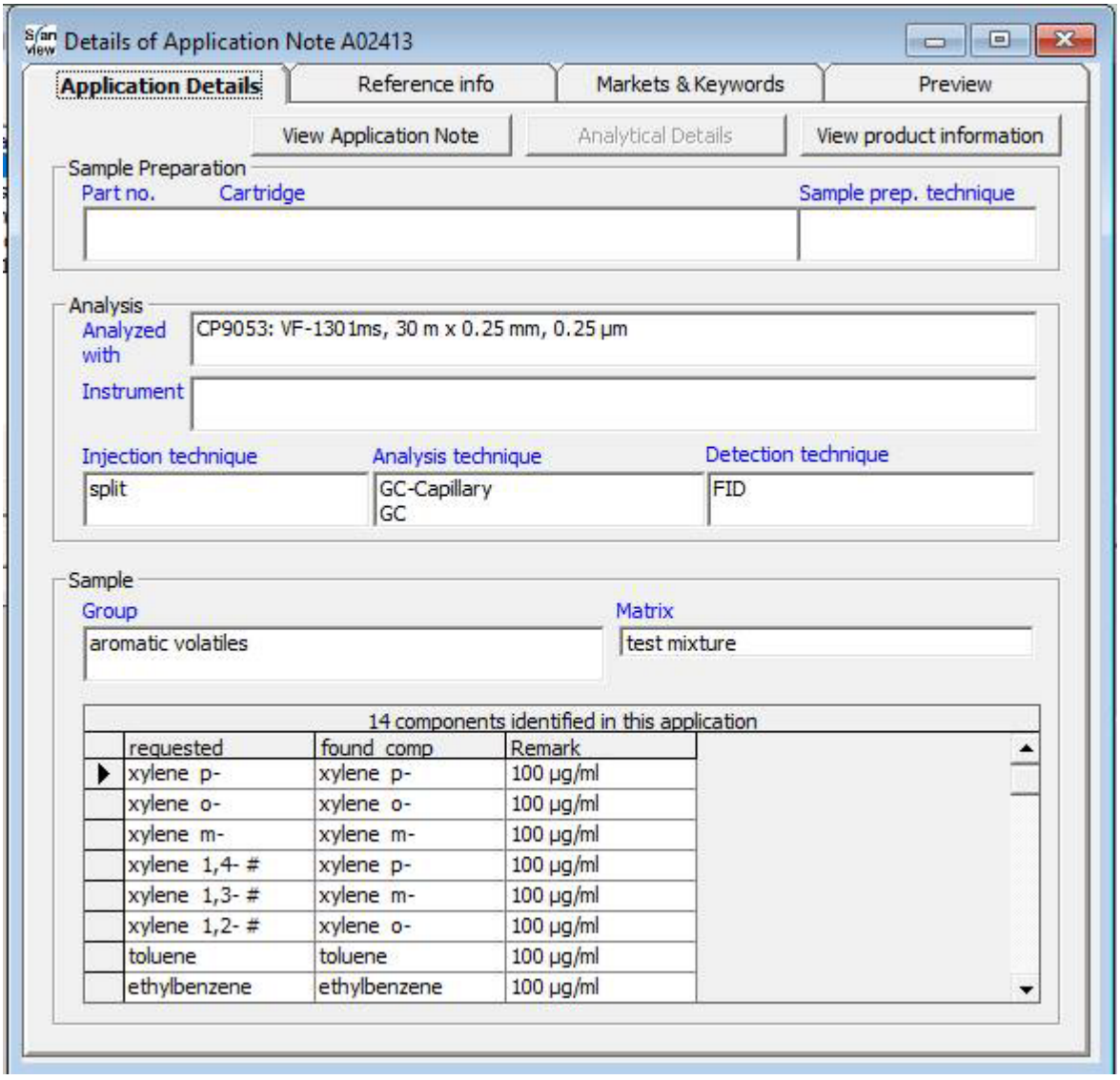


If you chose ‘Document’, Scanview will open the Scanview clipboard with the text.



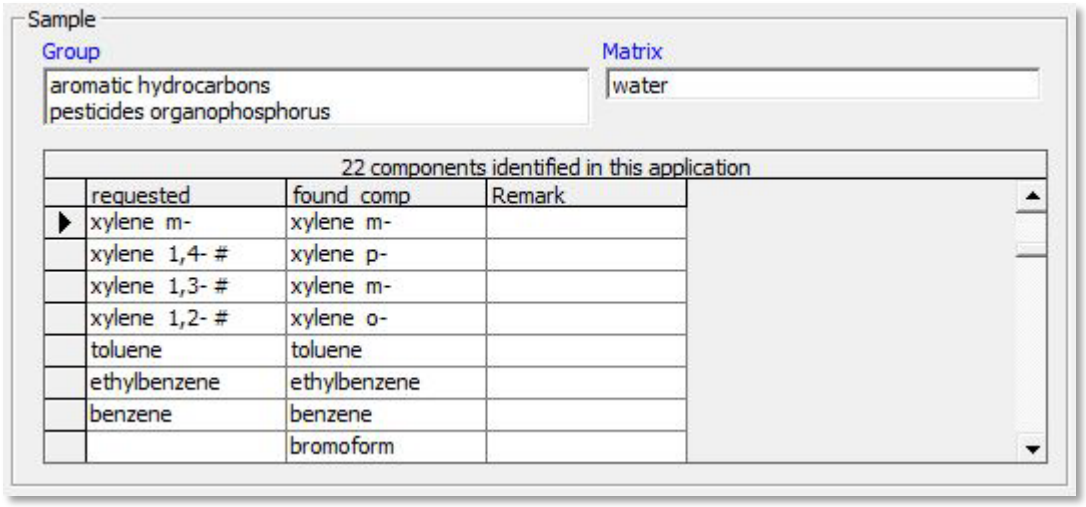
Application Details

This window shows you the detailed information of the currently selected Application Note. Please note that there is a second tab-form (Reference Info) that will reveal any literature Reference if we are not able to supply you all the details. Please use your local or online library to find the corresponding articles or contact our Technical Support Department for more advice.



If there is a PDF file found, the 'View Application Note' button is enabled and if additional product information is found, the 'View Product Information' button is also enabled.

Let’s take a closer look at the Sample section:



The results table has three columns ‘requested’, ‘found comp’ and ‘Remark’.

In the ‘requested’ column you will find the names you have searched for in the same line, but in the ‘found comp’ column is the component name directly associated with the application note (written in the text of the note).

In above example there are three component names ending in a hash mark (#), that means they are synonyms, ‘xylene 1,4- #’ is the synonym for ‘xylene p-’.

Since version 2023 the synonym table also contains the normal IUPAC syntax, meaning ‘1,4-xylene #’ is the synonym for ‘xylene p-’ too.

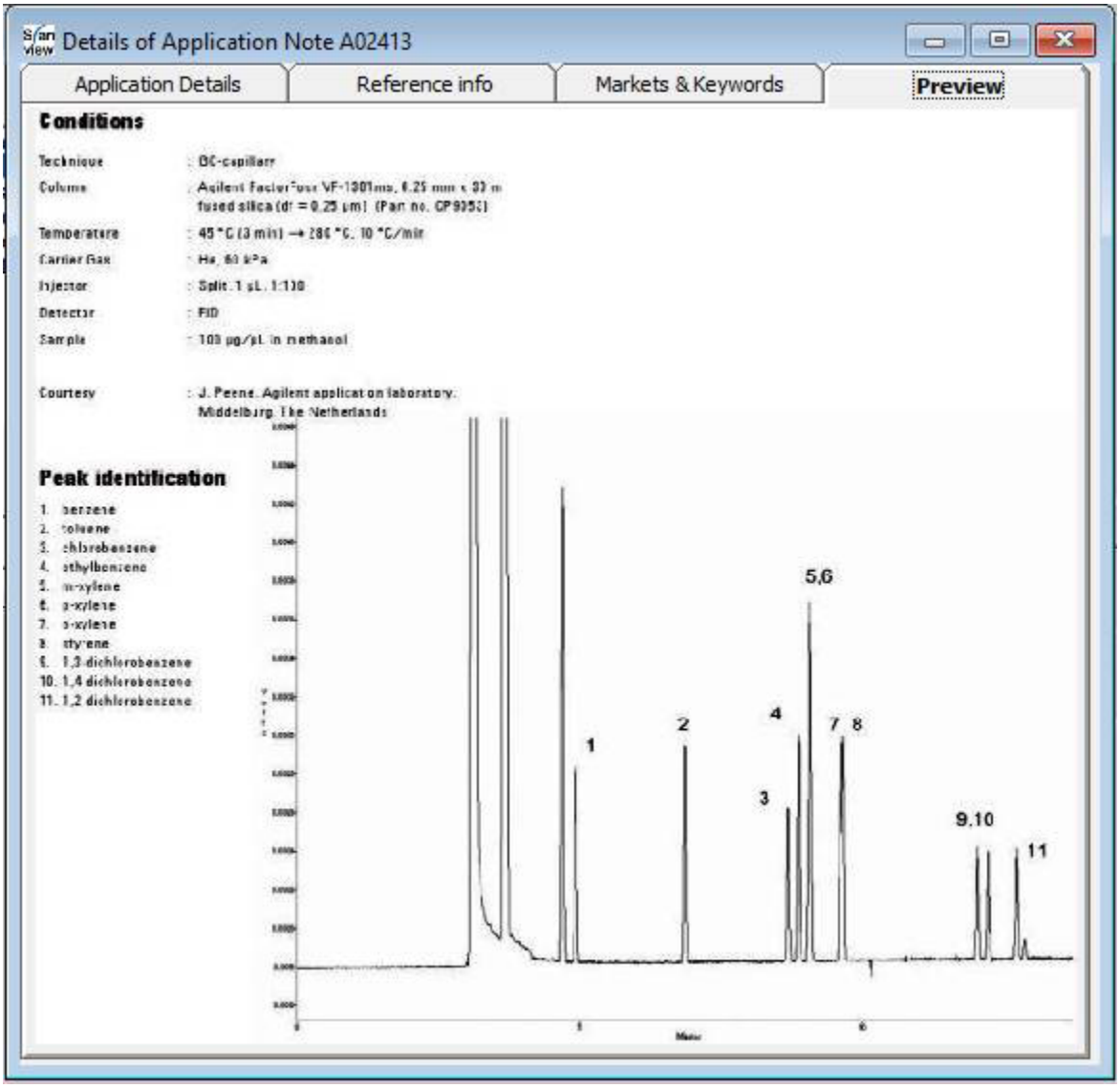
The ‘Remark’ column can contain different details, sometimes a retention time or factor or a concentration.

Application Details – Reference Info

See section about **Literature References and Documents.**

Application Details - Preview

The ‘Preview’ tab shows a rough preview of the application note, even when Scanview has no online connection.

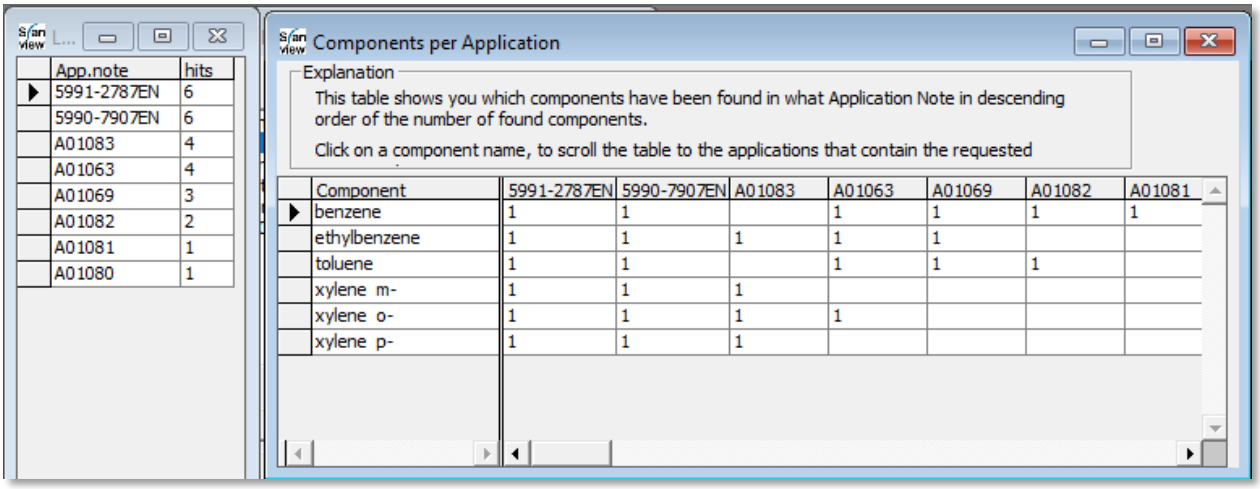


Not all application note have a preview file, but more than 3700 do.

Component Grid

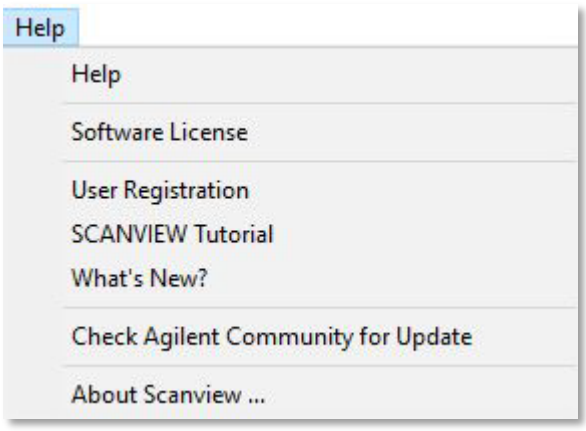
The component grid will show you exactly WHICH components were found in the Application Notes that best fit your selection criteria. It will start from left to right with those Application Notes that contain most of the searched components.

Note: please pay attention to the following powerful feature:
When you click on a specific component name in the component grid, the right part of the grid will scroll automatically through those applications that contain the selected component.



If there are more than 255 components in total (including all components in an application note, not only the one you search for) in your filter set, you will get an error message that there are too many components to show.

Help Menu



Help

This file.

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Scanview tries to open the Agilent Community website and the Scanview document. In the history section at the end of the document you can see if there is a new version of the software.

About

Shows the recent version and build number of Scanview, the built date and database version.