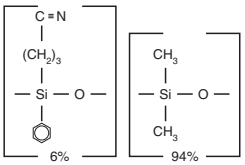
Organic Volatile Impurities (OVI) Analysis

Rtx®-1301/Rtx®-624 (low to midpolarity phase; Crossbond® 6% cyanopropylphenyl/ 94% dimethyl polysiloxane)

- General purpose columns for residual solvents, alcohols, oxygenates, and volatile organic compounds.
- Temperature range: -20°C to 240°C.
- Equivalent to USP G43 phase.

Many analysts feel the Rtx®-1301/Rtx®-624 column has the best cyanosilicone bonded stationary phase available, with no other column manufacturer providing lower bleed, longer lifetime, or better inertness. Our polymer is fully characterized to ensure long-term reproducibility, column-to-column consistency, and low bleed—even with sensitive detectors such as ECDs and MSDs.

Rtx®-1301/Rtx®-624 Structure



Rtx®-1301 (G43) Columns (fused silica)

(Crossbond® 6% cyanopropylphenyl/94% dimethyl polysiloxane)

ID	df (µm)	temp. limits*	15-Meter	30-Meter	60-Meter	75-Meter	105-Meter
0.53mm	3.00	-20 to 240°C	16082	16085	16088	16076	16091

Rtx®-624 Columns (fused silica)

(Crossbond® 6% cyanopropylphenyl/94% dimethyl polysiloxane)

ID	df (µm)	temp. limits	30-Meter	60-Meter
0.32mm	1.80	-20 to 240°C	10970	10972

*Maximum temperatures listed are for 15- and 30-meter lengths. Longer lengths may have a slightly reduced maximum temperature.

similar phases

DB-1301, DB-624, HP-1301, HP-624, SPB-1301, SPB-624, VF-1301, VF-624ms, CP-1301, CP-Select 624 CB

please note

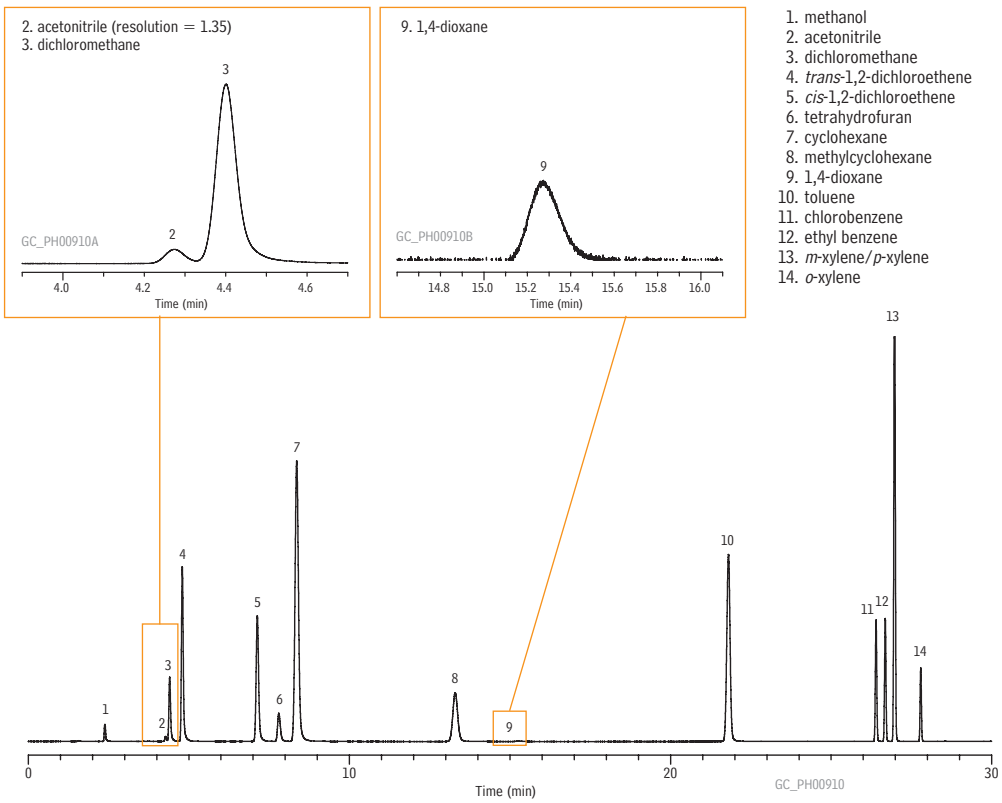
Rtx®-1301 and Rtx®-624 columns are available with Integra-Guard™ built-in guard columns. Get the protection without the connection! See **page 30** for descriptions and ordering information.

also available

MXT® Columns
Rugged, flexible, Siltek® treated stainless steel tubing; inertness comparable to fused silica tubing. See **pages 105 and 107** for our MXT®-1301 and MXT®-624 columns.

See our OVI Retention Index on page 721.

USP Residual Solvent Class 2 Mixture A standard solution on an Rtx®-624 column.



Column:	Rtx®-624, 30m, 0.32 ID, 1.8µm (cat. # 10970)	**Headspace Conditions**	
Sample:	USP <467> Class 2 Mixture A Standard Solution (cat.# 36271) in 20mL headspace vial	Instrument:	Tekmar HT3
Inj.:	Headspace injection (split ratio 1:5), 1mm Split liner Siltek® deactivated (cat.# 20972-214.1)	Transfer Line Temp.:	105°C
Inj. temp.:	140°C	Valve Oven Temp.:	105°C
Carrier gas:	helium, constant flow	Sample Temp.:	80°C
Flow rate:	2.16mL/min., 35.3cm/sec.	Sample Equil. Time:	45 min.
Oven temp.:	40°C for 20 min. to 240°C @ 10°C/min. (hold for 20 min.)	Vial Pressure:	10psi
Det.:	FID @ 240°C	Pressurize Time:	0.5 min.
		Loop Fill Pressure:	5psi
		Loop Fill Time:	2.00 min.
		Inject Time:	1.00 min.