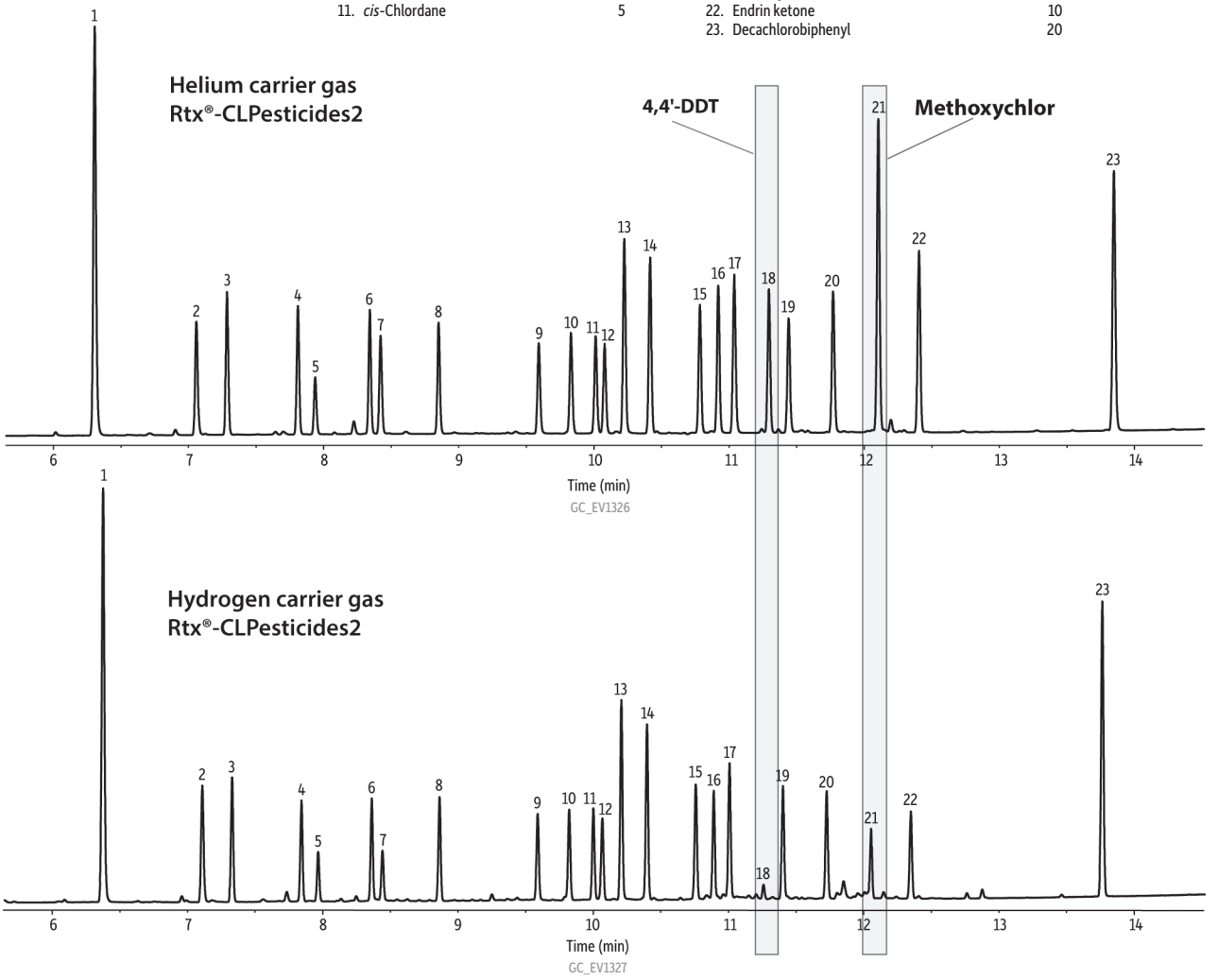
Comparison of Helium and Hydrogen Carrier Gas Activity in the Analysis of Organochlorine Pesticides (EPA Method 8081) on Rtx-CLPesticides2

	Peaks	Conc. (ng/mL)		Peaks	Conc. (ng/mL)
1.	Tetrachloro-*m*-xylene	20	12.	Endosulfan I	5
2.	Hexachlorobenzene	5	13.	4,4'-DDE	10
3.	α-BHC	5	14.	Dieldrin	10
4.	γ-BHC	5	15.	Endrin	10
5.	β-BHC	5	16.	4,4'-DDD	10
6.	δ-BHC	5	17.	Endosulfan II	10
7.	Heptachlor	5	18.	4,4'-DDT	10
8.	Aldrin	5	19.	Endrin aldehyde	10
9.	Heptachlor epoxide	5	20.	Endosulfan sulfate	10
10.	*trans*-Chlordane	5	21.	Methoxychlor	50
11.	*cis*-Chlordane	5	22.	Endrin ketone	10
			23.	Decachlorobiphenyl	20



Columns	Rtx-CLPesticides2 30 m, 0.32 mm ID, 0.25 µm (cat.# 11324) and Rtx-CLPesticides 30 m, 0.32 mm ID, 0.32 µm (cat.# 11141) using Rxi guard column 5 m, 0.32 mm ID (cat.# 10039) with universal "Y" Press-Tight connector (cat.# 20406-261)
Sample	Organochlorine pesticide mix AB #2 (cat.# 32292) Hexachlorobenzene (cat.# 32231) 2,4,5,6-Tetrachloro-*m*-xylene (cat.# 32027) Decachlorobiphenyl (BZ #209) (cat.# 32029)
Diluent:	*n*-Hexane
Injection	
Inj. Vol.:	2 µL splitless (hold 0.75 min)
Liner:	Premium 4 mm single taper w/wool (cat.# 23303)
Inj. Temp.:	250 °C
Purge Flow:	50 mL/min
Oven	
Oven Temp.:	110 °C (hold 0.5 min) to 325 °C at 25 °C/min (hold 2 min)
Carrier Gas	He, constant flow
Linear Velocity:	52 cm/sec
Detector	µ-ECD @ 340 °C
Make-up Gas Flow Rate:	50 mL/min
Make-up Gas Type:	N_2
Data Rate:	50 Hz
Instrument	Agilent/HP6890 GC
Notes	Conditions above are for helium carrier gas. For hydrogen carrier gas conditions, see chromatogram GC_EV1327.

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