For Iodine (I₂):

Extraction of I₂ by HOM-Captor2: We have prepared High Ordered Mesoporous Monoliths (HOM) for carrier. The selected ligand/chromophor was absorbed onto HOM materials to make as HOM-Captor2 for visual detection and extraction of I₂. pH solution (5.2) was prepared by mixing of sodium acetate and acetic acid. Here we have taken 4 mL of pH 5.2 solution for preparation of initial solution volume of 20 mL.

HOM- Collector1 for visual extraction of I₂

Collector	Solution	Solution	Initial I_2	Amount of	Shaking	Extracted I ₂	Visual	Removal	Stripping	Effective	Extraction
	Volume	рН	Concentration	HOM-Captor2	(min.)	Concentration	Extraction	efficiency	agent	Extraction	Efficiency
	(mL)		(ppm)	(mg)		(ppm)	Limit	(%)		range (ppm)	(%)
							(mol dm ⁻³)				
НОМ-											
Collector2	20	5.2	4.0	40.0	60	3.8	5.16 x 10 ⁻⁸	95%	2.0 M	0.001 to	90%
									HCl	20.0	