

**Table S1:** Integrated data on available numerical results of OCPs from review articles

Continent/ Country	Region	Year and Season of Sampling	Samplin g Profile	Sample Preparation	Extraction Method	Analytical Method	LOD/ LOQ $\mu\text{g kg}^{-1}$	Total Number of Samples	Total Number of analyzed OCPs/ Active Substances	Total concentra tion of OCPs	Refere nce	Limits Exceeda nce (EXL) $400 \mu\text{g kg}^{-1}$
Europe/ Italy	Benevento/ Southern Italy	December 2014 - February 2015	0–5 cm Rural soil	stored at –20 °C until analysis.	Hexane/Acetone: 3/1 on an accelerated solvent extraction and clean up through deactivated Florisil column with DCM and Hexane	High Resolutio n Mass Spectrom eter (HRMS)	0.005 $\mu\text{g kg}^{-1}$	64	24/ $\alpha$ -, $\beta$ -, $\gamma$ -, and $\delta$ - HCH p,p'-DDE p,p'-DDD o,p'-DDT o,p'-DDE o,p'-DDD p,p'-DDT HCB, a-Endosulfan, $\beta$ -Endosulfan, Endosulfan sulfate, cis-Chlordane, trans-Chlordane, cis-Nonachlor, tran-Nonachlor, Aldrin, Dieldrin, Endrin, Heptachlor MRX, Methoxychlor	16.9 $\mu\text{g kg}^{-1}$ (Arithmet ic mean: 1.71 $\mu\text{g kg}^{-1}$ ).	[139]	N/A
Europe/ Italy	Campanian Plain/ southern Italy	April and May 2011		Rural soil	Soxhlet-extracted with dichloromethane (DCM) extracts concentrated and	GC- $\mu$ ECD		119	11/ HCB, $\alpha$ -endosulfan, $\beta$ -endosulfan, endosulfan sulfate, heptachlor,	109 $\mu\text{g kg}^{-1}$ (Arithmet ic mean: 17.8 $\mu\text{g kg}^{-1}$ ).	[140]	N/A



				250 µm particle size	cleaned up on adsorption chromatography columns filled up with 1 g of silica gel activated at a temperature of 135 °C for 16 h.	monitoring)			p-DDD, p,p'-DDE, o,p-DDE), heptachlor, chlordane, aldrin, dieldrin, endrin, and mirex	12,644 µg kg <sup>-1</sup> dw		N/A
Europe/Romania	15 forest locations in Moldavia, Eastern part of Romania	From August to September 2005	0–5 cm		ASE system  The clean-up: purification of the extract on acidified silica and elution with hexane and dichloromethane	GC-ECD	0.05 and 0.6 µg kg <sup>-1</sup>	15	15/HCHs (α-, β-, γ and δ-HCH), DDTs (o,p'-DDE; p,p'-DDE; o,p'-DDD; o,p'-DDT; p,p'-DDD; p,p'-DDT), HCB, oxychlordane trans-nonachlor trans-chlordane and cis-chlordane	88.8 µg kg <sup>-1</sup>	143	N/A
Europe/Romania	Iassy  + Other Romanian locations		0-5 cm			GC-µECD and GC-MS in SIM mode		20 samples from Iassy  + 27 from all over Romania (urban, rural, industrial and waste incineration sites)	10/HCB HCHs (α-, β-, γ), DDTs (o,p'-DDD, p,p'-DDD, o,p-DDT, p,p'-DDT, o,p'-DDE, p,p'-DDE)	Iassy 126.8 µg kg <sup>-1</sup>	144	N/A
										Other Romanian locations: 1542.2 µg kg <sup>-1</sup>		EXL

Europe/Romania	Dorobantu and Calarasi/ southern Romania		0-25 cm						11/ HCHs ( $\alpha$ -, $\beta$ -, $\delta$ -HCH), Heptachlor epoxide, Chlordane ( $\alpha$ -, $\gamma$ -), Endosulfan ( $\alpha$ -, $\beta$ -), Dieldrin, p,p'-DDE, P,p'-DDD		145	
Europe/Romania	Mures county/ Central Romania	From November 2004 to April 2005	0-50 cm			GC-MS and GC-ECD	10 $\mu\text{g kg}^{-1}$	20 agricultural fields: vineyard apple orchards vineyards  arable lands: maize, soybean, wheat, potatoes fields  and greenhouse	HCHs ( $\alpha$ -, $\beta$ -, $\gamma$ -) DDT (o,p'-, p,p'-) DDE (o,p'-, p,p'-) Dieldrin	108 $\mu\text{g kg}^{-1}$	146	N/A
Europe/Spain	Guadalquivir River-South of the Iberian Peninsula	May 1990	0-5 cm			GC-ECD	0.01 $\mu\text{g kg}^{-1}$	10	12/ BHC ( $\alpha$ -, $\beta$ -, $\gamma$ -, $\delta$ -), Heptachlor, Heptachlor epoxide, Aldrin, dieldrin,	Total OCPs: 19.62 $\mu\text{g kg}^{-1}$  (total BHC:	17	N/A

									p,p'-DDE, p,p'-DDD, p,p'-DDT, dichlorobenzophenone	1.44 µg/kg total DDT: 18.18 µg/kg)		
Europe/Spain	South-western Spain	Spring 2007 and spring 2008	0-10 cm	sieved through a steel mesh with a 2 mm grid size.	Soxhlet extraction with toluene And clean-up with neutral silica column	GC-µECD	LODs p,p'-DDT: 0.941 pg g <sup>-1</sup> o,p'-DDT: 0.822 pg g <sup>-1</sup> p,p'-DDE: 1.10 pg g <sup>-1</sup> o,p'-DDE: 1.10 pg g <sup>-1</sup> p,p'-DDD: 0.406 pg g <sup>-1</sup> o,p'-DDD: 1.66 pg g <sup>-1</sup>	32	6/ p,p'-DDT, o,p'-DDT, p,p'-DDE, o,p'-DDE, p,p'-DDD, o,p'-DDD	Total OCPs (total DDTs)  11.1 µg kg <sup>-1</sup>	147	N/A
Europe/Germany	Whole Germany					GC-MS		447	8/ HCB,	4383 µg kg <sup>-1</sup>	148	EXL

									dieldrin, p,p'-DDT, o,p'-DDT, p,p'-DDD, o,p'-DDD, o,p'-DDE, p,p'-DDE)			
Europe/UK			0-23cm		Soxhlet extraction with Dichloromethane and clean up on with alumina/silica gel column	GC-ECD			21/ HCB, endosulfan, $\alpha$ - HCH, $\beta$ -HCH, $\gamma$ - HCH, heptachlor, cis- heptachlor epoxide, trans- heptachlor epoxide, aldrin, dieldrin, endrin, trans-chlordane, cis-chlordane, cis-nonachlor, trans-nonachlor, o,p'-DDE, p,p'- DDE, o,p'-DDD, p,p'-DDD, o,p'- DDT, and p,p'- DDT	10 $\mu\text{g g}^{-1}$	149	N/A
Europe/ Poland	Kraków, Katowice, and Chorzów	September- November 1994	0-5 cm		mechanical shaker with acetone	GC-ECD	LOQ: 0.001– 0.005 $\mu\text{g kg}^{-1}$	24	HCB, HCHs, DDTs and chlordanes	2520 $\mu\text{g kg}^{-1}$	151	EXL
Central Europe/ Central Asia	north-eastern part of Poland  Almaty region of	2012– 2014	0–10 cm	Soil samples were		GC-ECD		89 (Polland)  32	22/ HCHs ( $\alpha$ -, $\beta$ -, $\gamma$ -, $\delta$ -) DDTs	Poland: 1190 $\mu\text{g kg}^{-1}$	152	EXL

	Kazakhstan			air dried, mixed, sieved through a 100-mesh.				(Kazakhstan)	(o,p'-DDD, p,p'-DDD, p,p'-DDT, o,p'-DDT, o,p'-DDE, p,p'-DDE), methoxychlor, heptachlor, heptachlor epoxide, $\alpha$ -endosulfan- $\beta$ -endosulfan, endosulfan-sulfate, aldrin, HCB, cis-chlordane, trans-chlordane, dieldrin and endrine	Kazakhstan: 620 $\mu\text{g kg}^{-1}$ .		
Europe	Redon/ Spain  Tatra/Central Europe (between Slovakia and Poland)				Soxhlet Hexane / Dichloromethane	GC-ECD			7/ HCB, HCHs ( $\alpha$ -, $\beta$ -, $\gamma$ -, $\delta$ -) DDTs (p,p'-DDE, p,p'-DDT)	Redon: 4.5 $\mu\text{g kg}^{-1}$ Tatra: 13.82 $\mu\text{g kg}^{-1}$	12	N/A
Europe/ Croatia	Varaždin north Croatia	March 2014	0-15 cm		Microwave-assisted extraction hexane:acetone (1:1)	GC- $\mu$ ECD		25	13/ HCB, HCHs ( $\alpha$ -, $\beta$ -, and $\gamma$ -), DDTs	21.0 $\mu\text{g kg}^{-1}$	153	N/A

		June and July 2013						16 urban soil	(p,p'-DDE, p,p'-DDD, o,p'-DDT, and p,p'-DDT), aldrin, isodrin, heptachlor, heptachlor epoxide, $\alpha$ -endosulfan			
Europe	Southern and Central Europe  Croatia, Serbia, Bosnia and Herzegovina, Czech Republic	July December 2005	0-10 cm					21 residential, rural, urban samples  21 industrial samples  6 heavily contaminated samples		7.7 $\mu\text{g kg}^{-1}$	154	N/A



Europe/ Belgium Italy Greece Romania					Hot Soxhlet extraction	GC-μECD		Belgium: 16 soils  Italy: 6 soils  Greece: 2 soils  Romania: 46 soils	10/ HCB, α-HCH, β- HCH, γ-HCH, o,p'-DDE, p,p'- DDE, o,p'-DDD, p,p'-DDD, o,p'- DDT, p,p'-DDT	Belgium: 25.8 μg kg <sup>-1</sup>  Italy: 67.6 μg kg <sup>-1</sup>  Greece: 146.9 μg kg <sup>-1</sup>  Romania: 656.4 μg kg <sup>-1</sup>	14	N/A  N/A  N/A  EXL
Africa/ Nigeria	Okitipupa, Ondo State, Nigeria	sieving through a 2 mm mesh	0–20 cm		Ultrasonic method 3550C	GC-ECD		12	15/ α-, β- and δ- BHC, HCB, LND, aldrin, dieldrin, endrin, heptachlor, heptachlor epoxide, endosulfan (α-, β-) p,p'-DDE, p,p'-DDT chlorothalonil	21100 μg kg <sup>-1</sup>	155	EXL
Africa/ Tanzania		February and April 2003  June- August 2003			solid dispersion extraction method in an ultrasonic bath using acetone: cyclohexane (volume 1:1),	GC-ECD  (GC-MS confirmati on)		48 Soils Applicati on  18 Soils	16/ HCB HCHs (α-, β-, γ-, δ-) Heptachlor Heptachlor epoxide	Soils Applicati on: 157.6 μg kg <sup>-1</sup>  Soils	156	N/A  N/A

								Post--- Applicati on	Aldrin dieldrin endrin $\gamma$ -Chlordane Keto Endrin o,p'-DDT p,p'-DDT p,p'-DDD p,p'-DDE	Post--- Applicati on: 54.3 $\mu\text{g kg}^{-1}$		
Africa/ Tanzania	Manyara Region Geita town Zanzibar Mbeya region Mbeya region Dar es Salaam	January– April 2009	. The samples were 5– 10 cm  30 cm  10–30 cm  50 cm- 3 m		Accelerated Solvent Extractor	high resolution GC–MS HRGC– HRMS in SIM mode		51	DDT, DDD, DDE, HCHs aldrin, dieldrin, endrin, endosulfans, chlordanes	375.000 $\mu\text{g kg}^{-1}$	157	EXL
Africa/ Kenya	Nyeri Voi Kapsabet		0-20 cm	sieved through a 60- mesh nylon sieve	Solid-phase extraction	GC-ECD	LOD= 0.001to 0.025 $\mu\text{g kg}^{-1}$  LOQ= 0.155- 0.167 $\mu\text{g kg}^{-1}$	52 (20 from Kapsabet, 9 from Voi and 23 from Nyeri)	8/ HCHs ( $\alpha$ -, $\beta$ -, $\gamma$ -, $\delta$ -) p,p'-DDT p,p'-DDE p,p'-DDD o,p'-DDT	Kapsabet: 52.7 $\mu\text{g kg}^{-1}$ Voi:22.47 $\mu\text{g kg}^{-1}$  Nyeri:24. 3 $\mu\text{g kg}^{-1}$	158	N/A  N/A  N/A
Africa/ Central Rwanda	Nyabarongo		5-10 cm	Electromagnet ic sieve shaker	Ultrasonic bath and extraction with Cyclohexane	GC-MS		108	29/ Aldrin Chlordane (cis- alpha-) Chlordane (oxy-)	120 $\mu\text{g kg}^{-1}$	159	N/A

									Chlordane (trans-, gamma-) o,p'-DDD p,p'-DDD o,p'-DDT p,p'-DDT o,p'-DDE p,p'-DDE Dieldrin Endosulfan ( $\alpha$ -, $\beta$ -) Endrin HCH ( $\alpha$ -, $\beta$ -, $\gamma$ -, $\delta$ -, $\epsilon$ -) Heptachlor Heptachlor epoxide (endo-, exo-) HCB Isodrin Methoxychlor MRX			
Asian/ China	Watershed of the Pearl River Delta/ Southern China	August 2005	0-20 cm	sieved through a 100- meshed stainless steel mesh	Soxhlet with Dichloromethane	GC-MS	LOD: 0.11 - 0.35 $\mu\text{g}$ $\text{kg}^{-1}$	55	18/ DDTs (p,p'- isomers) HCHs Heptachlor Heptachlor epoxide Aldrin Endosulfan ( $\alpha$ -, $\beta$ -) Dieldrin Endrin Endrin aldehyde Endosulfan sulfate Endrin ketone	873.3 $\mu\text{g}$ $\text{kg}^{-1}$  (arithmeti c mean: 94.15 $\mu\text{g}$ $\text{kg}^{-1}$	160	EXL

									Methoxychlor			
Asia/ China	Gansu, Xinjiang, Qinghai, and Ningxia in Northwest China	March 2011	0–15 cm	ground in a mortar to above 100 mesh	Soxhlet with dichloromethane	GC-ECD		32 (15 urban soils, 14 rural soils, and 3 were backgrou nd soils)	18/ HCHs ( $\beta$ -, $\gamma$ -, $\delta$ -, $\epsilon$ -) HCB heptachlor heptachlor epoxide trans-chlordane cis-chlordane endosulfan ( $\alpha$ -, $\beta$ -) o,p'-DDE p,p'-DDE o,p'-DDD p,p'-DDD o,p'-DDT p,p'-DDT mirex	133.18 $\mu\text{g}$ $\text{kg}^{-1}$	161	N/A
Asia/ China	outskirts of Beijing		5–30 cm (shallo w subsurf ace)		Ultrasonic bath exytraction with petroleum ether/acetone, 1/1 (v/v)	GC-ECD		47 (shallow subsurf ace)	7/ HCHs ( $\beta$ -, $\gamma$ -, $\delta$ -) p,p'-DDE p,p'-DDD o,p'-DDT p,p'-DDT	56.61 $\mu\text{g}$ $\text{kg}^{-1}$ (5–30 cm)	162	N/A
			150–180 cm (deep soil layers)					46 ( deep soil layers)		2178 $\mu\text{g}$ $\text{kg}^{-1}$ (150– 180 cm)		EXL
Asia/ China	Pearl River Delta/ Southern China				0.05 $\mu\text{g}$ $\text{kg}^{-1}$ for HCB, 0.1 $\mu\text{g}$ $\text{kg}^{-1}$ for HCHs, 0.05 $\mu\text{g}$ $\text{kg}^{-1}$ for DDTs			63	DDTs HCHs HCB Chlordane	155 $\mu\text{g}$ $\text{kg}^{-1}$	163	N/A

									Dieldrin endrin			
Asia/ China	Hongze Lake	May, 2009	0-20 cm	sieved through 2 mm sieve	Ultrasonic bath with hexane/acetone (1:1 v/v)	GC-ECD	LOD: HCB and DDTs: 0.05 µg kg <sup>-1</sup>  HCB: 0.1 µg kg <sup>-1</sup>	61	9/ HCB HCHs (α-, β-, γ-, δ-) DDTs (p,p'-DDD, p,p'- DDE, o, p'-DDT and p,p'-DDT)	219.10 µg kg <sup>-1</sup>	164	N/A
Asia/ China	Zhangzhou city	March 2009	0-20 cm		Soxhlet with dichloromethane	GC-ECD		93	8/ HCHs (α-, β-, γ-, δ-) DDTs (p,p'-DDD, p,p'- DDE, o, p'-DDD and p,p'-DDT)	108.23 µg kg <sup>-1</sup>	7	N/A
Asia/ China	Beijing/ college school yards	2006	0–20 cm		Ultrasonic extraction with acetone/hexane (1:1)	GC-µECD	LOD=0. 012 to 0.095 µg kg <sup>-1</sup>		15/ HCH (α-, β-, γ-, δ-) heptachlor heptachlor epoxide chlordane (trans- , cis-) endosulfan (α-, β-) p, p'-DDE p,p'-DDT p,p'-DDD o,p'-DDT HCB	276.45 µg kg <sup>-1</sup>	165	N/A

Asia/ China	Henan, Shandong, Liaoning, Jilin, Heilongjiang, and Tianjin / northern China	April- Novembe r 2018	0–20 cm		GC- $\mu$ ECD	Mechanic al shaker - extraction Acetonitri le	$\leq 0.1 \mu\text{g kg}^{-1}$	52 (0–20 cm) open fields	20/ HCHs ( $\alpha$ -, $\beta$ -, $\gamma$ -, $\delta$ -) DDTs (p,p'- DDT, p,p'-DDD, p,p'-DDE, o,p'- DDT) Chlordanes (cis- trans-) Aldrin Endrin Dieldrin Endrin Ketone Endrin aldehyde Endosulfans ( $\alpha$ -, $\beta$ -) Endosulfan sulfate Heptachlor Heptachlor epoxide	open- field: 746 $\mu\text{g g}^{-1}$	166	EXL
								52 from plastic sheds		plastic shed: 2555 $\mu\text{g kg}^{-1}$		EXL
Asia/ China	29 provinces in all CHina	2004-2018	< 50 cm			GC-ECD			8/ OCPs / DDTs (p,p'- DDE, p,p'-DDD, o,p'- DDT and p,p'- DDT) HCHs ( $\alpha$ -, $\beta$ -, $\gamma$ -, $\delta$ -)	37331 $\mu\text{g kg}^{-1}$	167	EXL
Asian/ China	Mt. Shergyla, southeast Tibetan Plateau	July 2016		sieved through 2 mm	Accelerated Solvent Etraction with dichloromethane/ hexane, 1:1, v/v	GC- $\mu$ ECD	LOD= 0.003- 0.01 $\mu\text{g kg}^{-1}$ for HCHs  LOD= 0.01-	55 (forest soil)	10/ HCHs ( $\alpha$ -, $\beta$ -, $\gamma$ -) DDTs (o,p'- DDE, p,p'- -DDE, o,p'-DDD, p,p'-DDD, o,p'- DDT, p,p'-DDT) HCB	6 $\mu\text{g kg}^{-1}$	168	N/A

							0.05 µg kg <sup>-1</sup> for DDTs					
Asia/ China	Zhejiang, China	2006	0-20 cm		Soxhlet with dichloromethane	GC-ECD		58	8/ DDTs	529 µg kg <sup>-1</sup>	169	EXL
Asia/ China	Yellow River Delta, China	July 2012	0-20 cm		Soxhlet	GC-MS	LOD= 0.001–0.3 µg kg <sup>-1</sup>	26	22/ HCHs (α-, β-, γ-, δ-) DDTs (o,p'-DDT, p-p'-DDT, o,p'-DDD, p-p'-DDD, o,p'-DDE, p-p'-DDE) Heptachlor Heptachlor epoxide Aldrin Chlordane (cis-, trans-) Endosulfan (α-, β-) HCB Dieldrin Methoxychlor Endrin MRX	10.5 µg kg <sup>-1</sup>	170	N/A
Asia/ China	Yellow and Bohai Seas, China	September 2013	0-10 cm	sieved through a 2mm mesh	Accelerated Solvent Extraction with hexane/ dichloromethane 1:1, v/v).	GC-µECD	LOQ= 0.01 - 0.1 µg kg <sup>-1</sup>	153	7/ HCHs (α-, β-, γ-, δ-) DDTs (p,p'-DDE, p,p'-DDD, p,p'-DDT)	179.96 µg kg <sup>-1</sup>	171	N/A
Asia/ China	Chinese forest	May 2012- March 2013			Soxhlet with dichloromethane	GC-MS	LOD= 0.15 ×10 <sup>-3</sup> to 9.57 × 10 <sup>-3</sup> µg kg <sup>-1</sup>	159 forest-soil ( 77 O-horizon and 82 A-horizon)	13/ Endosulfans (α-, β-) HCB MPX	210 µg kg <sup>-1</sup> (O-horizon)	172	N/A  N/A

									DDTs (o,p'-DDT, pp'-DDT, o,p'-DDD, pp'-DDD, o,p'-DDE, pp'-DDE) Chlordanes (cis-, trans-) Heptachlor	122 µg kg <sup>-1</sup> (A-horizon)		
Asia/ China	Wuhan, central China	June 2009	0-20 cm	sieved through a 100-mesh	Soxhlet-extraction hexane/acetone (1:1, v/v)  EPA method 3540C	GC-µECD	LODs = 0.002-0.214 µg kg <sup>-1</sup>	44	21/ HCHs (α-, β-, γ-, δ-) DDTs (p,p'-DDD, p,p'-DDE, p,p'-DDT, o,p'-DDT, o,p'-DDD, o,p'-DDE) methoxychlor heptachlor, heptachlor epoxide Endosulfans (α-, β-) aldrin HCB Chlordanes (cis-, trans-) Dieldrin Endrin	1253.3 µg kg <sup>-1</sup>	173	EXL
Asia/ China	riparian soils of the middle reach of the Huaihe River		0-5 cm		Accelerated Solvent Extraction	GC-MS	LODs = 0.0013-0.50 µg kg <sup>-1</sup>	28	20/ HCHs (α-, β-, γ-, δ-) HCB Heptachlor Heptachlor epoxide Aldrin Chlordanes (cis-, trans-)	63 µg kg <sup>-1</sup>	174	N/A



									DDTs (p,p'-DDD, p,p'-DDE, p,p'-DDT, o,p'-DDT, o,p'-DDD, o,p'-DDE) Endosulfans ( $\alpha$ -, $\beta$ -) Dieldrin Endrin Methoxychlor			
Asia/ India	south-west India	May 2015		Sieved through 1 mm stainless steel sieve	Microwave extraction Acetone: Hexane (1:1 v/v)	GC-MS	LOQs= 0.001 - 0.0028 $\mu\text{g kg}^{-1}$	55 (total)	17/ HCHs ( $\alpha$ -, $\beta$ -, $\gamma$ -, $\delta$ -) DDTs (p,p'-DDT, p,p'-DDE, p,p'-DDD), endosulfans ( $\alpha$ -, $\beta$ -) endosulfan sulfate, Aldrin Dieldrin Endrin endrin ketone methoxychlor heptachlor heptachlor epoxide	1203 $\mu\text{g kg}^{-1}$	175	EXL
								21 agricultural soils				EXL
								27 coastal soils		868 $\mu\text{g kg}^{-1}$		N/A
								7 backwaters soils		323 $\mu\text{g kg}^{-1}$		N/A
Asia/ India	Kerala, India	May 2017 - 2018	0-15 cm		QuEChERS	GC-ECD	LODs= 1.57 - 3.74 $\mu\text{g kg}^{-1}$ LOQs=4 .78 - 11.33 $\mu\text{g kg}^{-1}$	22	17/ DDTs (p, p'-DDE, p,p'-DDD, p,p'-DDT) HCHs ( $\alpha$ -, $\gamma$ -, $\beta$ -, $\delta$ -) Aldrin Dieldrin Endrin endrin aldehyde	118.29 $\mu\text{g kg}^{-1}$ .	176	N/A

									endosulfans ( $\alpha$ -, $\beta$ -) endosulfan sul-phate heptachlor heptachlor epoxide methoxychlor			
Asia/ India	New Delhi and Agra in the north, Kolkata in the east, Mumbai and Goa in the west and Chennai and Bangalore in the southern part of India		0-20 cm		Soxhlet extraction with dichloromethane	GC-MS	LODs= 0.001 - 0.0028 $\mu\text{g kg}^{-1}$	81	12/ DDTs (o,p' - DDT, p,p' -DDE, p,p' -DDT) HCHs ( $\alpha$ -, $\beta$ -, $\gamma$ -, and $\delta$ -) HCB chlordanes (cis-, trans-) endosulfans ( $\alpha$ -, $\beta$ -)	410 $\mu\text{g kg}^{-1}$	179	EXL
Asia/ Turkey	Kumluca a district of Antalya on the Mediterranean coast of Turkey				Soxhlet extraction with acetone/hexane (1:1, v/v)	GC-MS		12	22/ HCHs ( $\alpha$ -, $\beta$ -, $\gamma$ -, $\delta$ -) heptachlor, heptachlor epoxide chlordanes (cis-, trans-) nonachlors (cis-, trans-) endosulfans ( $\alpha$ -, $\beta$ -) endosulfan sulfate DDTs (p,p' -DDE, p,p' -DDD, p,p' -DDT) Endrin Aldrin dieldrin endrin aldehyde	28.1 $\mu\text{g kg}^{-1}$	180	N/A

									endrin ketone methoxychlor			
Asia/ Hong Kong	Kowloon Hong Kong Island Lantau Island	December 2020	0-10 cm		EPA method 3550C	GC- $\mu$ ECD	LODs= 0.005 - 0.02 $\mu$ g kg <sup>-1</sup>	66  (46 soils of 0-10 cm and 20 soils 10-30cm and >30 cm horizons from nine soil profiles)	16/ HCHs ( $\alpha$ -, $\beta$ -, $\gamma$ -) HCB heptachlor Aldrin Endrin Dieldrin Endosulfans ( $\alpha$ -, $\beta$ -) DDTs (p,p'- DDE, o,p'-DDE, p,p'-DDD,  o,p'-DDD, o,p'- DDT, p,p'-DDT)	7 $\mu$ g kg <sup>-1</sup>	10	N/A
Asia/ Pakistan	North West Frontier Punjab Sindh		0-6 cm	Sieved through 200 mesh size sieve	US-EPA Method 8081A	GC-ECD	LODs= 2-13 $\mu$ g kg <sup>-1</sup>	31 (highly contamin ated sites)  (5 from North West Frontier , 14 from Punjab, and 12 from Sindh)	11/ $\beta$ -HCH $\gamma$ -BHC Heptachlor Heptachlor exoepoxide Heptachlor endoepoxide Dieldrin Endrin DDTs ( o,p'- DDD, p,p'-DDE, o,p'-DDT, p,p'- DDT)	North West Frontier Province: 9157 $\mu$ g kg <sup>-1</sup>	181	EXL
										Punja: 10892 $\mu$ g kg <sup>-1</sup>		EXL
										Sindh: 1139 $\mu$ g kg <sup>-1</sup>		EXL
Asia/ Pakistan	Hyderabad City/ Pakistan		0-5 cm		Soxhlet extraction with dichloromethane	GC-ECD		20  (7 soils from	13/ HCHs ( $\alpha$ -, $\beta$ -, $\gamma$ -) HCB heptachlor Chlordanes (cis-, trans-)	9298,8 $\mu$ g kg <sup>-1</sup>  soils from	182	EXL

								burial ground,	DDTs (p,p'-DDE, o,p'-DDE, p,p'-DDD, o,p'-DDD, p,p'-DDT, o,p-DDT)	burial ground		
								4 industrial soils		304.31 $\mu\text{g kg}^{-1}$ industrial		N/A
								4 soils from residential		123.04 $\mu\text{g kg}^{-1}$ Residential		N/A
								5 background soils		116.47 $\mu\text{g kg}^{-1}$ background		N/A
Asia/ Pakistan	Dump sites in Pakistan				Soxhlet extraction with dichloromethane	GC-MS		27	16/ HCHs ( $\alpha$ -, $\beta$ -, $\gamma$ -, $\delta$ -) DDTs (o,p', p,p'-DDE, o,p', p,p'-DDD and o,p', p,p'-DDT), Endosulfan ( $\alpha$ -, $\beta$ -, Endosulfan Sulfate), HCB Heptachlor Heptachlor epoxide	30.44 $\mu\text{g kg}^{-1}$	183	N/A

Asia/ Pakistan	Indus River catchment area		0-15 cm	sieved through 2 mm sieve	US-EPA 8080A	GC-MS		38	15/ HCHs ( $\alpha$ -, $\beta$ -, $\gamma$ -, $\delta$ -) DDTs (o,p'- DDD, p,p'-DDD, o,p'-DDT, p,p'- DDT, o,p'-DDE, p,p'-DDE) HCB Chlordanes (cis- trans-) $\beta$ -endosulfan Heptachlor	13.47 $\mu\text{g kg}^{-1}$	184	N/A
Asia/ Iran	Southern Iran	March- April 2016	0-10 cm	sieved through 1 mm sieve	Soxhlet extraction with dichloromethane	GC-ECD		28  14 soils from Dalaki plain and 14 soils from Shabanka re plain	14/ DDTs (p,p'- DDE, p,p'-DDD, o,p'-DDT, o,p'- DDE, o,p'-DDD, and p,p'-DDT) HCHs ( $\alpha$ -, $\beta$ -, $\gamma$ -, $\delta$ -) chlordanes (cis- trans-) heptachlor, heptachlor- exoepoxide	Dalaki plain: 27.761 $\mu\text{g kg}^{-1}$	185	N/A
										Shabanka re plain: 50.751 $\mu\text{g kg}^{-1}$		N/A
Asia/ Malaysia	Kelantan, Malaysia	Septembe r 2017 and February 2018	0-20 cm		Soxhlet extraction with hexane: acetone (50:50v/v)	GC-ECD	LOD; HCH ( $\alpha$ -, $\beta$ -, $\gamma$ -): 0.02 $\mu\text{g kg}^{-1}$ $\delta$ - HCH:	10 2 fields survey	10/ HCHs ( $\alpha$ -, $\beta$ -, $\gamma$ -, $\delta$ -) DDTs (p,p'- DDT, p,p'-DDE, p,p'-DDD)	First field: 21.41 $\mu\text{g kg}^{-1}$	186	N/A

							0.03 µg kg <sup>-1</sup> endosul fan sulphat e: 0.01 µg kg <sup>-1</sup>		endosulfan(α-, β-) endosulfan sulphate	Second field: 15.39 µg kg <sup>-1</sup>		N/A
Asia/ Tajikistan	Chimbuloq Garm Vakhsh Konibodom  (pesticide disposal sites)	2011-2014	0-10 cm		Mechanical shaking with hexane:acetone (4:1, v/v)	GC-ECD		20 soils in 2011	23/ DDTs (o,p'-DDT, p,p'- DDT, o,p'-DDD, p,p'-DDD, o,p'- DDE, p,p'-DDE ) lindane BHC (α- , β-, γ-, δ-) endosulfans (α-, β-, endosulfan sulfate) aldrin chlordanes (cis-, trans-) dieldrin endrin endrin aldehyde endrin ketone heptachlor heptachlor epoxide methoxychlor	81000 µg kg <sup>-1</sup>	186	EXL