





	Long-term Exposure			Short-term Exposure		
	FIV	Averaging period	Source	FLV	Averaging period	Source
Acetaldehvde	48	1 year	Japan	-	-	-
Acrolein	0.35	1 year	USA-California	6.9	1 h	France
α-pinene	200	1 year	Germany	-	-	-
Benzene	0.2	whole life (carcinogenic risk level: 10 <sup>-6</sup> )	France	-	-	-
Carbon dioxide	-	-	-	1250	8 h	Portugal
Formaldehyde	9	1 year	USA-California	123	1 h	Canada
Naphthalene	2	1 year	Germany	-	-	-
Nitrogen dioxide	20	1 year	France, Canada	470	1 h	USA-California
PM10	20	1 year	WHO	50	24 h	WHO
PM2.5	10	1 year	WHO	25	24 h	WHO
Radon	200	1 year	Austria, Canada, Hong-Kong	400	8 h	Austria, China, Portugal
Styrene	30	1 year	Germany	-	-	-
Toluene	250	1 year	Portugal	-	-	-
Trichloroethylene	2	whole life (carcinogenic risk level: 10 <sup>-6</sup> )	France	-	-	-
туос	-	-		600	8 h	China, Hong- Kong, Portugal
Mold	200	1 year	EU	-	-	-



**Case Study** Numerical evaluation of exposure concentration with TRNSYS - CONTAM coupling Prototypical house + scenarios regarding ventilation systems, pollutant source strengths, outdoor pollution, occupants' activities... Validation against French survey from 567 houses and apartments (Kirchner et al., 2006) 10000 Simulations (#13412) Measurement (#567) 1000 \_m/brl) 100 centration 10 1 0,1 0.01 Acetald. Acrolein Benzene Formald. PM 2.5 PM 10 Styrene Tetrachlo. Toluene Trichloro. Xylenes Louis Cony-Renaud-Salis: PhD Thesis to be defended in beginning of 2020 • Kirchner S, Arene IF, Cachet C, Derbez M, Duboudin C, Elias P, Gregaire A, Jedar B, Lucas JP, Pasquier N, Pigneret M, Ramalho O. 2006a. Campagne nationale lagem Report, CSTB/DDD/SB – 2006-57, 165 pages. nts: état de la pollution dans les logements fra 6









