

26.8.2013

TASK NO.6: SORPTION AND ANALYSIS OF BVOCs

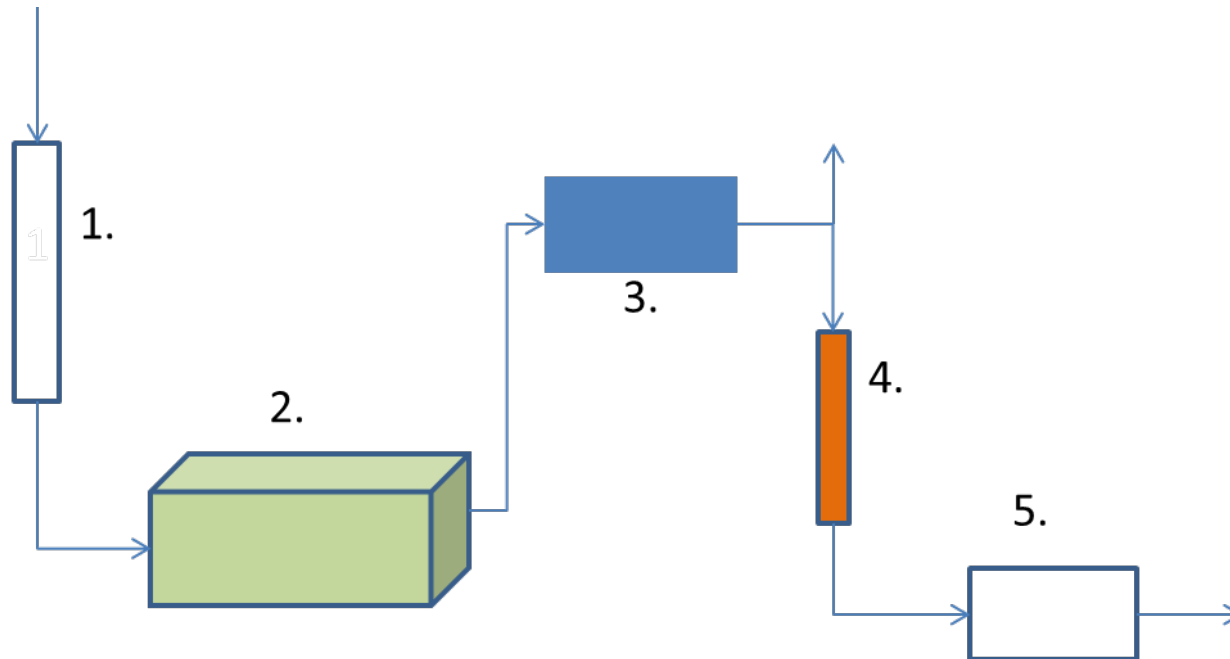
EVA DAŘENOVÁ

BARBARA BEDNARSKA



INVESTICE DO ROZVOJE VZDĚLÁVÁNÍ

EXPERIMENT SET-UP



1. Filter with active carbon, 2. Li-6400 (Li-Cor, USA), 3. assimilation chamber, 4. sorption trap filled with Tenax sorbent, 5. external pump (GilAir Plus)

INSTRUMENTS

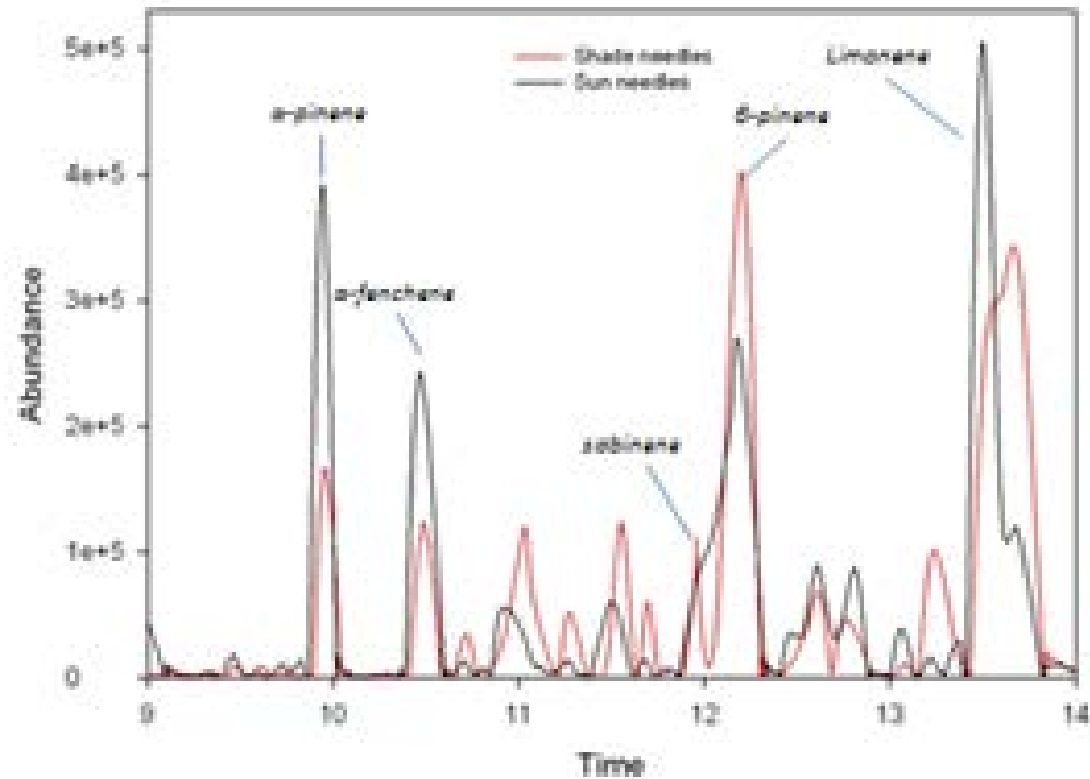
DESORPTION UNIT



GC-MS (THERMO)



EXAMPLE OF CHROMATOGRAPH



SUMMARY

monoterpenes are represented mainly by α -pinen, β -pinen, limonen and myrcen

sesquiterpenes are dominated by farnesen and particularly in shade needles by caryophyllen

spruce is relatively low emitter of BVOCs