





 PROGRAM B : Program 7: Presentation Title Project B2.2 rationale 1. Stakeholder concern about smoke chemistry, especially from prescribed fires 2. Link to BOM studies, especially to develop understanding of atmospheric impacts and impacts on people and ecosystems 	RE CRC LTD 2006	
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 Strong emphasis on understanding background (i.e. without fire) rates of emission of specific compounds - vital context to studies of fires. Everyone is exposed to many, if not all, these compound all the time. 	5	















bushfire	CRC
 PROGRAM 8 : Program ? : Presentation Title Proton Transfer Reaction Mass Spectrometer identifies & quantifies VOCs in real-time with low detection	







bushfire crc			
PROGRAM B : Program ? : Presentation Title			
Current plans & future directions			
 Temperature studies of VOCs from plant tissues by PTR-MS (ambient to 300 °C) 			
2. PTR-MS analysis of VOCs as standards to identify characteristic ions and quantify VOCs			
3. Identify unknowns in spectra - investigate their significance			
4. Design & construct a chamber for combustion studies			
5. Plan field studies for controlled burns in collaboration with CSIRO			











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PROGRAM B : Program ? : Presentation Title	
→ Current plans & future directions	
 Partnership with CSIRO in a range of studies of atmospheric impacts of VOCs, with and without fire 	
 Continue work with IFU Garmisch to develop understanding of production of VOCs by plants. Link to BOM atmospheric chemistry studies and smoke plume and dispersion models 	
 Continue discussions with range of stakeholders to develop utility of PTR-MS. VOCs are major causes of concern, for example, to the grape industry. PTR-Ms offers the most sensitive real-time analysis presently available 	
4. Publish, publish	