List of Figures

State wise area (A) and production (B) of Grapes in India during the
Year 2007-08
Structure of DPPH and its reduction by the antioxidant RH
1-1-diphenyl-2-picryl-hydrazyl (free radical)
Formation of 2,4,6-Trichloroanisole
Formation of 4- Ethyl phenol
Structures of Amino Acids and Biogenic amine
Chromatogram of 27 compounds at 500 µg mL ⁻¹ Standard
Standard Spike in Red Wine at 500 µg mL ⁻¹
Standard Spike in White Wine at 500 μg mL ⁻¹
White Wine Sample Chromatogram
Red Wine Sample Chromatogram
Matrix Match Standard at 300 mg kg ⁻¹
Wine Sample Chromatogram
Dendrographic Classification of 50 Wine Samples Based on
Diversity in Individual Phenolics Content Determined by
LCMS/MS
Effect of Charcoal for Preparation of Control Wine
XIC of the Selected Volatile Compounds at 500 ng mL ⁻¹
Selection of Extraction Solvent
Solvent Volume Optimization
Effect of Cleanup
Comparison of Recoveries (Red and White Wine) from Ethyl
acetate and Acetonitrile Extractions at 10 ng mL-1 Level of
Fortification
Effect of CaCl ₂ on Removal of Long Chain Organic Acids
Effect of Cleanup on Spectral Matching with NIST Library
Comparison of Interfering Acid Peaks Before and After Florisil
Treatment
Total Ion Chromatogram of 83 Pesticides and 12 Dioxin-like PCB
at 500 ng mL ⁻¹

Figure 5.2.1	Comparison of Different Solvents for the Selection of Extraction
	Solvents
Figure 5.2.2	Comparison of Recoveries (red wine) from Toluene Extractions at
	30:2 and 60:2 Sample to Solvent Ratio
Figure 5.2.3	Effect of Cleanup on Removal of Long Chain Organic Acids and
	Esters
Figure 5.2.4	Effect of Cleanup on Entire Chromatogram for Removal of Fatty
	Acids
Figure 5.2.5	Full Scan Mass Spectra with XIC Chromatogram of 5 ppb TCA on
	GC-TOFMS
Figure 5.2.6	Optimization of the Dwell Time on Triple Quadrupole GC-MS
Figure 5.2.7	MS/MS Spectra of TCA, a) 2,4,6-Trichloroanisole, b) 2,4,6-
	Trichlorophenyl oxonium ion, c) Trichlorocyclopentadiene
Figure 5.3.1	TIC of Amino Acids and Biogenic Amines