## CONTENTS

## 1. INTRODUCTION

1.1 3-Monochloropropanediols (3-MCPD) – as a compound	1
1.2 Where is 3-MCPD found?	2
1.3 How is 3-MCPD formed?	3
1.4 Toxicity of 3-MCPD	4
1.5 Objective of present study	5
1.6 Review of 3-MCPD analysis	6
2. EXPERIMENTAL	
2.1 Reagents, Materials and Apparatus	7
2.2 Description of Gas Chromatograph used	9
2.3 Sampling	11
2.4 Extraction method	12
2.5 Derivatization Method	14
2.6 Peak Identification	15
2.7 Standard Preparation and Calibration Standard Preparation	16
2.8 Recovery study	19
2.9 Standard Deviation of Methodology and Instrument	20
3. RESULT AND DISCUSSION	
3.1 System suitability check	21
3.2 Calibration	22
3.3 Peak Identification	29
3 4 Sampling	31

References		48
	3.9 Comments and Conclusion	47
	3.8 Evaluation on Results	42
	3.7 Evaluation on Recovery study and Precision	41
	3.6 Level of 3-MCPD	34
	3.5 Recovery study, Error and precision	32