SCAQMD	M313
VOC by GCN	1S/FID

#### Technical Discussion October 30th, 2013

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## Agenda

1:00 pm	Welcome and Introductions
1:15 pm	Comments on M313
1:30 pm	Film Extraction: Methods and Results
2:30 pm	Compounds of Concern Compound, Concern, Methods
2:50 pm	Setting Next Date

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Written Comments

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# PresentationsTopicPresenter1. Paint Film ExtractionBrad Parrack2. Compounds of<br/>ConcernMike Gernon (Vantex T)<br/>+ Open Floor

Paint Film Extraction
Brad Parrack
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Samples	Compounds
High Gloss Sealer	Pentaethylene Glycol
Elastomeric Deck Coating	Dipropylene Glycol
Stain	Glycerol
Wiping Stain Base	1-Phenoxy-2-propanol
Swimming Pool Paint	TXIB
High Gloss Sealer	Texanol
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## Film Preparation

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~20 g/L glycerin spike



0.4 g sample per pan

## **Film Preparation**

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0.4 g sample per pan

60 minutes 110 Degrees





# **Film Extraction Procedure**

	Parameter	Value
Spike	Glycerin	~20 g/L
Sample in Pan	110 °C (1 hour)	0.4 ± 0.1 g Sample
Solvents	Acetone or MEK	~6 ml
Mixing	Sonication & Overnight	30 minutes & 24 hours
Internal Standard	EOEOE	~ 5 g/L
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#### Film Extraction Procedure

Attempt #	# Samples	Solvents	Spike	Mixing
1.	1	MeOH & THF	NA	10 Minute Sonication
2.	6	MeOH & THF	Glycerin	10 minute sonication
3.	6	THF & MeCl	Glycerin	25 minute sonication
4.	6	Acetone & MEK	Glycerin	25 minute sonication + 24 hour shaking
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# **Preliminary Conclusions**

	% of Total VOC Extracted	Average % Recovery of Spike
Swimming Pool Paint	64%	61%
All Other Samples (averaged)	12%	15%

#### Parameters to Consider

Solvent Sample Size Heat Sample Type Spike

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