



**MPC Galveston Bay Refinery**  
**MSS Portable Tank Calibration & Monitoring Log in support of MSS and TAR activities**

**FORM MSS-0012**

Responsible Unit/Area: \_\_\_\_\_  
 MO#: \_\_\_\_\_  
 Instrument Identifier: \_\_\_\_\_  
 Equipment Being Monitored (i.e. tank number): \_\_\_\_\_

Calibration Technician: \_\_\_\_\_  
 Technician Company: \_\_\_\_\_  
 Monitoring Technician: \_\_\_\_\_  
 Technician Company: \_\_\_\_\_

*Must provide MPC MSS SME both the RAE Tube and the RAE Instrument/Detector data sheets annually (or for change of equipment).*

Calibration						
Method 21 Instrument? <sup>(a)</sup>	Calibration	Calibration Gas used <sup>(b)</sup>	Gas to be measured	Response Factor	Benzene Tube Type	Range (ppmv)
( ) Yes ( ) No ("no" must have prior approval in writing by MPC Environmental)	Date: _____ Time: _____					

Monitoring						
Sample Description <sup>(c)</sup>	Sampling Date <sup>(d)</sup>	Identify Background Concentration (ppmv)	Sample Number	Sampling Time <sup>(e)</sup>	Concentration (ppmv)	Identify the highest Concentration from previous column <sup>(f)</sup>
Prior to Start of Transfer:			VOC Sample 1:			
			VOC Sample 2:			
			VOC Sample 3:			
			VOC Sample 4:			
			VOC Sample 5:			
			Benz. Sample 1:			
			Benz. Sample 2:			
Intermediary Sample:			VOC Sample 1:			
			VOC Sample 2:			
			VOC Sample 3:			
			VOC Sample 4:			
			VOC Sample 5:			
			Benz. Sample 1:			
			Benz. Sample 2:			
Intermediary Sample:			VOC Sample 1:			
			VOC Sample 2:			
			VOC Sample 3:			
			VOC Sample 4:			
			VOC Sample 5:			
			Benz. Sample 1:			
			Benz. Sample 2:			
End of Transfer:			VOC Sample 1:			
			VOC Sample 2:			
			VOC Sample 3:			
			VOC Sample 4:			
			VOC Sample 5:			
			Benz. Sample 1:			
			Benz. Sample 2:			

Comments: \_\_\_\_\_

**Footnotes:**

- (a) VOC concentration shall be measured using an instrument meeting all the requirements specified in EPA Method 21 (40 CFR 60, Appendix A) with the noted exceptions.
- (b) Calibration gas used is required to be such that the response factor of the VOC (or mixture of VOCs) to be monitored shall be less than 2.0.
- (c) For two (2) carbon canisters in series with an upstream liquid scrubber, sampling must occur prior to start of transfer, at the end of each transfer, and every 12 hours depending on the duration of the transfer. Any sampling in addition to the specified frequency must be recorded and sampled per Environmental policies and procedures.
- (d) The instrument must be calibrated within 24 hours of use.
- (e) During VOC sampling, data recording will not begin until after two (2) times the instrument response time. The VOC concentration will be monitored for at least five (5) minutes, recording VOC concentration each minute. During Benzene sampling, the benzene tube must be used in accordance with manufacturer's guidelines and two (2) samples shall be taken at least 5 minutes apart.
- (f) The highest measured concentration will be used to determine breakthrough.