

PAB Materials Test System

Date of Receipt	11/12/10 , logbook entry # 1415 to 1427
Sample Name/Description	SHV connector (+ RG180 coax cable + shrinking tubing)
Sample	
Composition:	nickel plated brass(connector), polyolefin(shrinking tube), Teflon(cable insulator), gold plated brass(cable center)
Picture Location:	data base
Weight:	76 g
Dimensions/Area:	connector 70 mm long, cable 1 m long
Source:	Walter Jaskierny
Preparation:	cleaned with alcohol
Submerging in LAr or LH2	no
Time in the airlock(hrs)	
Purge:	24 h purged from the bottle and 1 h from Luke
Vacuum:	
Room Temperature	
Start Time/Date, End Time/Date :	10/26/10 2:50 pm, 10/29/10 10:30 am
PrM run # :	10296
Condenser state:	on
Filter state:	off
O2 reading:	increased by 2 ppb in first 2 hours, later stayed increased by 0.4-0.8 ppb
H2O reading:	170 ppb in first hour, then decreased to 35 ppb
Lifetime:	2-2.5 ms
Vapor Test	before moving to vapor sample was purged in airlock for 3 h (from cryostat)
Start Time/Date, End Time/Date :	10/29/10 4:30 pm, 11/1/10 9:35 am
PrM run # :	10338
Condenser state:	on
Filter state/settings:	off
O2 reading:	no increase
H2O reading:	increased from 11 to 20, then stayed at 10-12 ppb
Temperature:	224-229 K
Lifetime:	5-7 ms
Liquid level :	17.6" to 16.5"
Liquid Test	
Start Time/Date, End Time/Date :	11/1/10 4:15:00 pm, 11/3/10 3:15 pm
PrM run # :	10376
Condenser state:	on
Filter state/settings:	off
O2 reading:	no increase
H2O reading:	no increase
Temperature:	97 K
Lifetime:	5-7 ms
Liquid level :	16.5" to 15.6"
Zero Test	11/5/10 to 11/8/10
	Following the same procedure as room temp. test
H2O reading:	spiked to 45 ppb, then stabilized in 12-18 ppb range
Lifetime:	2 ms