LBNE W.L.Gore DXN2308 Cable Test   1/14/2014 – 1/27/2014

PAB Materials Test System	
Date of Receipt	1/31/14 , logbook entry # 4844
Sample Name/Description	LBNE cable, W. L. Gore, model DXN2308.
	for the LBNE photon detection system
Sample	
Composition:	PTFE Teflon insulated wire with ETFE Teflon jacket
Picture Location:	data base
Weight:	12 g
Dimensions/Area:	16 inches - length of the cable
Source:	Russ Rucinski
Preparation:	alcohol cleaned
Submerging in LAr or LH2	no
Time in the airlock(hrs)	
Purge:	23 hours purged from the bottle (0.5 LPM) and 2 hours from Luke
Vacuum:	
Room Temperature	
Start Time/Date, End Time/Date :	1/14/14 4 pm, 1/16/14 2 pm
PrM run # :	19956
Condenser state:	on
Filter state:	off
O2 reading:	x
H2O reading:	increased from 2.5 to 80 ppb just after opening the gate valve,
	then dropped and stabilized 12-15 ppb
Lifetime:	5-7 ms
Liquid Test	
Start Time/Date, End Time/Date :	1/17/14 3 pm, 1/21/14 4:30 pm
PrM run # :	19992
Condenser state:	on
Filter state/settings:	off
O2 reading:	x
H20 reading:	increased from 2.5 to 8 ppb, then stabilized at 5 ppb
Temperature:	95 K
Liquid Level	17 inches
Lifetime:	> 10 ms
VaporTest	
Start Time/Date, End Time/Date :	1/22/2014 3:00:00 PM, 1/27/2014
PrM run # :	20052
Condenser state:	on
Filter state/settings:	off
O2 reading:	x
H20 reading:	10 ppb
Temperature:	120-140 K
Liquid Level	16 inches
Lifetime:	10 ms

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1. Room temp. test
2. Liquid test
3. Vapor Test (there was a problem with data collecting for few hours)
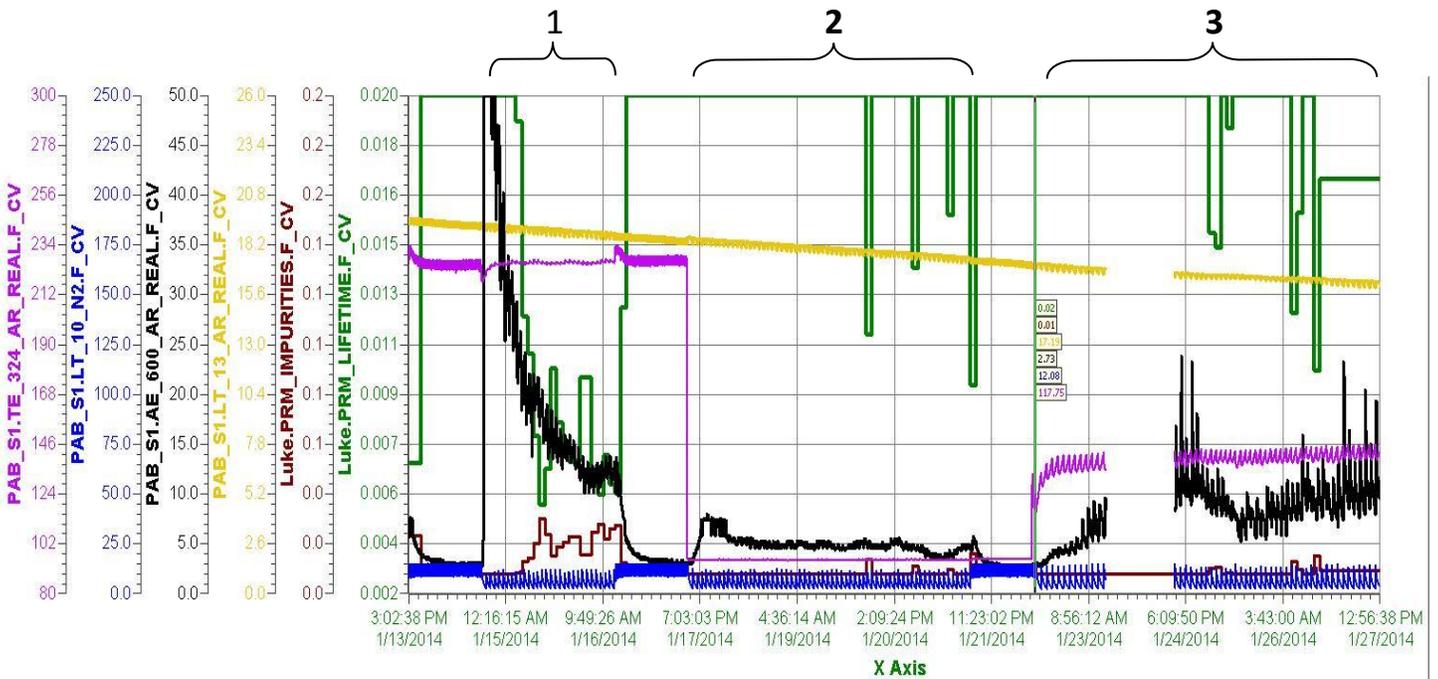
Pen Name	Description	Value	Eng Units	High Over Range	Low Over Range
Luke.PRM_LIFETIME.F_CV	Luke.PRM_LIFETIME.F_CV	0.020	sec	N/A	N/A
Luke.PRM_IMPURITIES.F_CV	Luke.PRM_IMPURITIES.F_CV	0.0	Imps	N/A	N/A
PAB_S1.LT_13_AR_REAL.F_CV	Luke Argon Level Probe	17.2	inches	N/A	N/A
PAB_S1.AE_600_AR_REAL.F_CV	Luke Halo (F_CV)	2.7	ppb	N/A	N/A
PAB_S1.LT_10_N2.F_CV	Luke Condenser LN2 Level Probe (F_CV)	12.1	inches	N/A	N/A
PAB_S1.TE_324_AR_REAL.F_CV	Luke material elevator RTD (F_CV)	118	K	N/A	N/A

1/13/2014 3:02:38 PM   1/27/2014 12:56:38 PM