

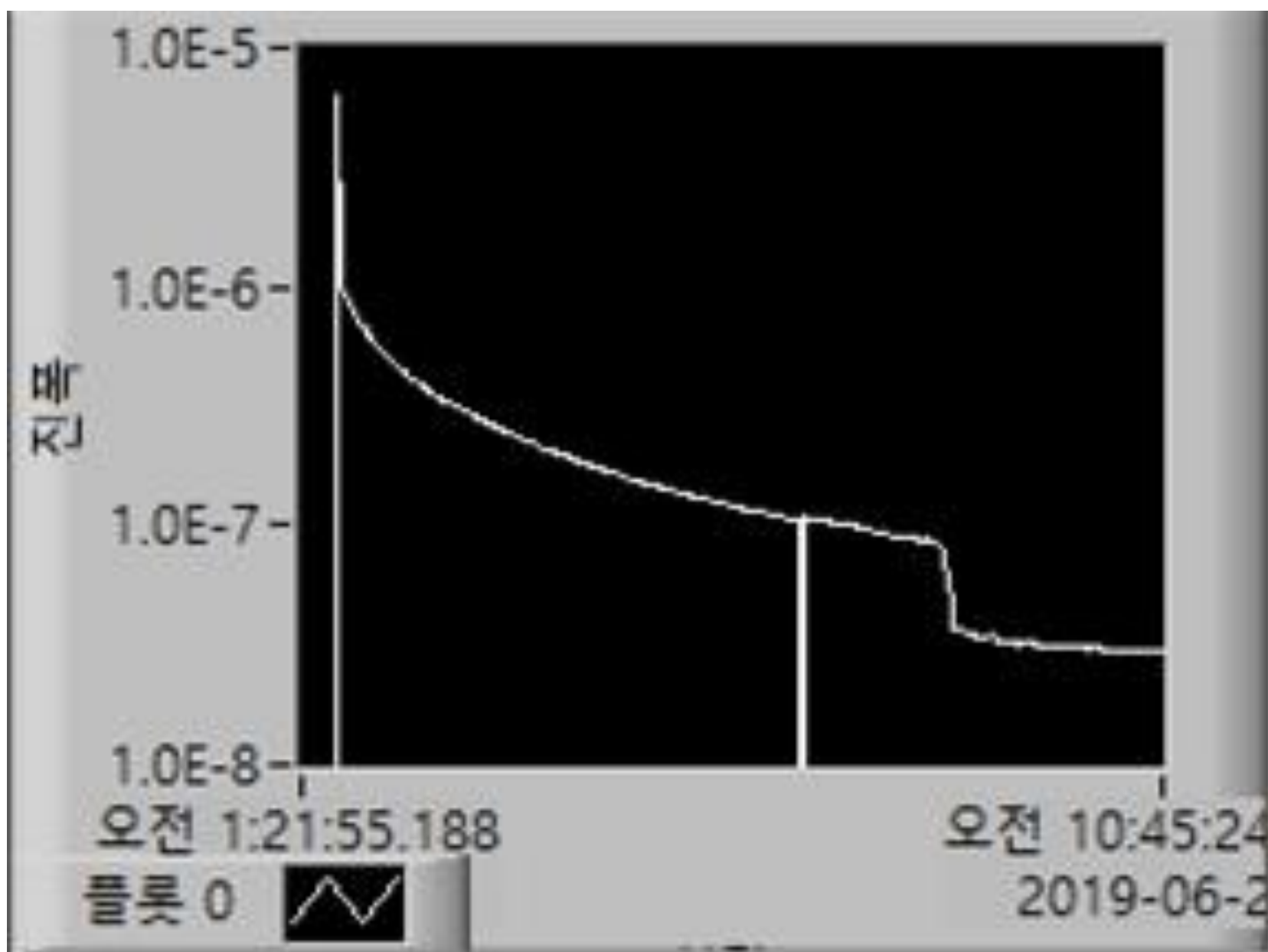
GBAR Trap Meeting

Seoul National University

12.Jul.2019

Model 218 Temperature Monitor - SN:219366





Cooling Test 실험 일정

6/20 SMPS주문

6/22 SMPS 도착예정(/서울대)

6/24 SMPS Wire 작업(장상철/서울대)

6/25 Heating 시작(박관형/고려대)

6/26 Heating off(임은훈/고려대)

6/27 6-way 분리 후 MRE 빼내기(장상철, 원동환/고려대)

6/28~7/2 MRE 수정작업(장상철/서울대)

7/3 2차 Cooling Test(장상철, 원동환, 박관형/고려대)

변경점

1. MRE

MRE to bar thermal contact

Bar to pipe thermal contact

Capton film

Thermal sensor connect

2. Chamber

4-way cross

DST Ion gauge

Rotatable flange side

TMP safety망 설치

문제

1. Scroll

7/4 AM 2:57~3:03 OVC Pressure 2×10^{-6} -> 2.5mbar

7/4 PM 3:00 Scroll 문제 파악

2. Leak

7/3 PM 10:34 TMP on

7/4 PM 5:05 IVC 압력 감소율이 저조하여 에탄올로 간단한 Leak Test 진행. 압력 9×10^{-7} 에서 1×10^{-6} 으로 상승

Leak 의심

체결 강화 후 상태 관측.

문제

1. Leak

7/9 까지 UST 10^{-7} DST 10^{-5} order

진공 벤트 후 Helium Leak Test 진행

7/11 PM 6:00 Leak 위치 발견

DST Ion gauge 연결부분에 사용한 MCP용 Electrical Feedthrough에서 Leak 발생

Blank로 교체 후 테스트

현재 압력(TMP 가동 후 20시간) : 9.6×10^{-8} mbar

품 번	품 목	수 량	단 위	단 가 (₩)	금 액 (₩)	세 액 (₩)
1	AGILENT社 VACION PLUS 300 PUMP_ CF8" P/N _ 9191610	1	set	10,500,000	10,500,000	1,050,000
2	AGILENT社 VACION PLUS 150 PUMP_ CF6" P/N _ 9191510	1	set	7,550,000	7,550,000	755,000
3	4UHV CONTROLLER, TWO CHANNELS 80W POS P/N _ 9299201	1	set	5,000,000	5,000,000	500,000
4	HV RADIATION RESISTANT CABLE, 4METER P/N _ 9290705	1	set	700,000	700,000	70,000

Total	23,750,000	26,125,000
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[VAT 포함]

合計金額 : ₩34,320,000 (VAT포함)

Homepage: <http://www.gvtech.co.kr>

NO	Description	Unit	Qt'y	U/Price	Amount
1	<u>300LCV8SSCNN</u> 300L Ion Pump *Element Style:TiTanCV *Port Option: 8"CFF *HV Feed Through:safe conn 10kv *Heater Voltage:No Heaters *TSP/NEG:None	pc	2	₩9,000,000	₩18,000,000
2	<u>QPC1PS1E2SSNI</u> QPC Controller *HV Channel:One 125mA Channel *HV Polarity:Positive(CV/DI) *Connector Style:10kv SHV(safe conn) *Connections Channel:One Output *Input Voltage:230V EC *Communications:Serial/Ethernet *Remote Enable:Standard *TSP/NEG Control:Not Installed	pc	2	₩5,500,000	₩11,000,000
3	<u>Cable SCPSC3SC</u> HV Voltage Cable *Controller Conn:safe Conn *SC Cable Length:3M *Pump Controller:Safe Conn	pc	2	₩1,100,000	₩2,200,000

Total	₩31,200,000
VAT	₩3,120,000
G-Total	₩34,320,000

合計金額 : ₩31,020,000 (VAT포함)

Homepage: <http://www.gvtech.co.kr>

NO	Description	Unit	Qt'y	U/Price	Amount
1	<u>200LCV6SSCNN</u> 200L Ion Pump *Element Style:TiTanCV *Port Option: 6"CFF *HV Feed Through:safe conn 10kv *Heater Voltage:No Heaters *TSP/NEG:None	pc	2	₩7,500,000	₩15,000,000
2	<u>QPC1PS1E2SSNI</u> QPC Controller *HV Channel:One 125mA Channel *HV Polarity:Positive(CV/DI) *Connector Style:10kv SHV(safe conn) *Connections Channel:One Output *Input Voltage:230V EC *Communications:Serial/Ethernet *Remote Enable:Standard *TSP/NEG Control:Not Installed	pc	2	₩5,500,000	₩11,000,000
3	<u>Cable SCPSC3SC</u> HV Voltage Cable *Controller Conn:safe Conn *SC Cable Length:3M *Pump Controller:Safe Conn	pc	2	₩1,100,000	₩2,200,000
Total					₩28,200,000
VAT					₩2,820,000
G-Total					₩31,020,000

Thank You!