

## 축전지 방전 성능진단 보고서

### LG유플러스 안양사옥-1층 UPS#14-A

성능진단 대상		LG유플러스 안양사옥-1층 UPS#14-A		설치일자		2020년 6월	
Cell Model		CGS600		메이커		세방전지	
정격용량	600Ah (10H)	방전온도	19.3℃	진단감독		이종현, 조선증	
Pack Type	552V (2V x 276셀)	Cell Type	2V(276셀)	진단시기		2025년 1월 16일	
방전 조건 전체전압 Limit	510.6V (1.85V x 276셀)			셀 전압 Limit	1.85V	방전시간설정	03시간 00분
방전 전류	156A (3시간 방전율)			실제 방전시간	1시간 31분	방전중단원인	216번 셀

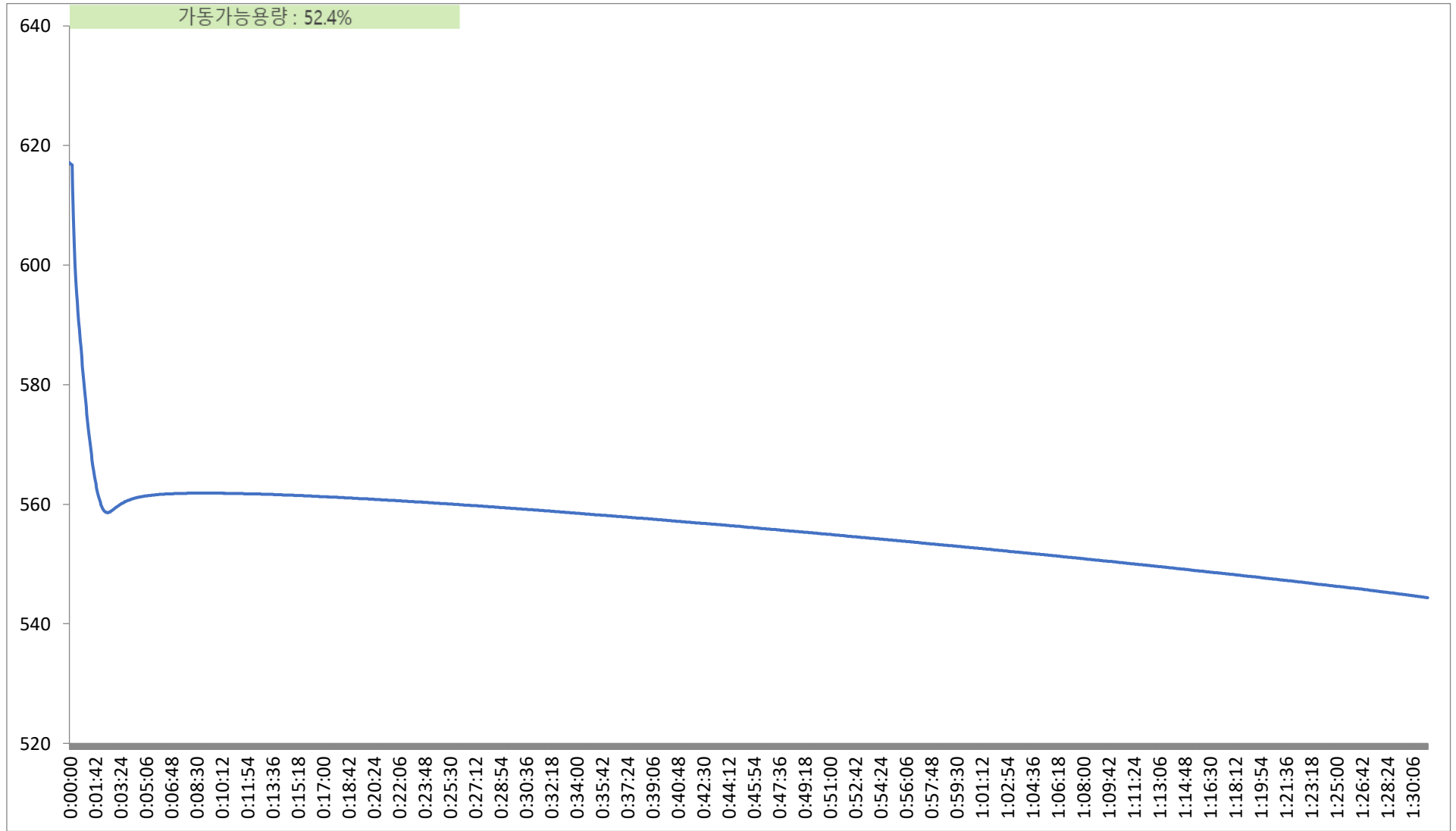
축전지 성능진단 절차 : UPS부터 축전지분리 -> 156A 방전 -> 충전

#### Result & Solution

축전지 용량구분	해당 셀 수	해당 셀 번호	solution	비고
80% 이상	270	나머지 전체 셀	사용가능	교체 필요 없음
70~80%	1	88	교체 또는 사용	기준에 따라 다름
60~70%	1	38	교체 또는 사용	기준에 따라 다름
60% 미만	4	19, 59, 216, 242	교체	반드시 교체 하여야 함

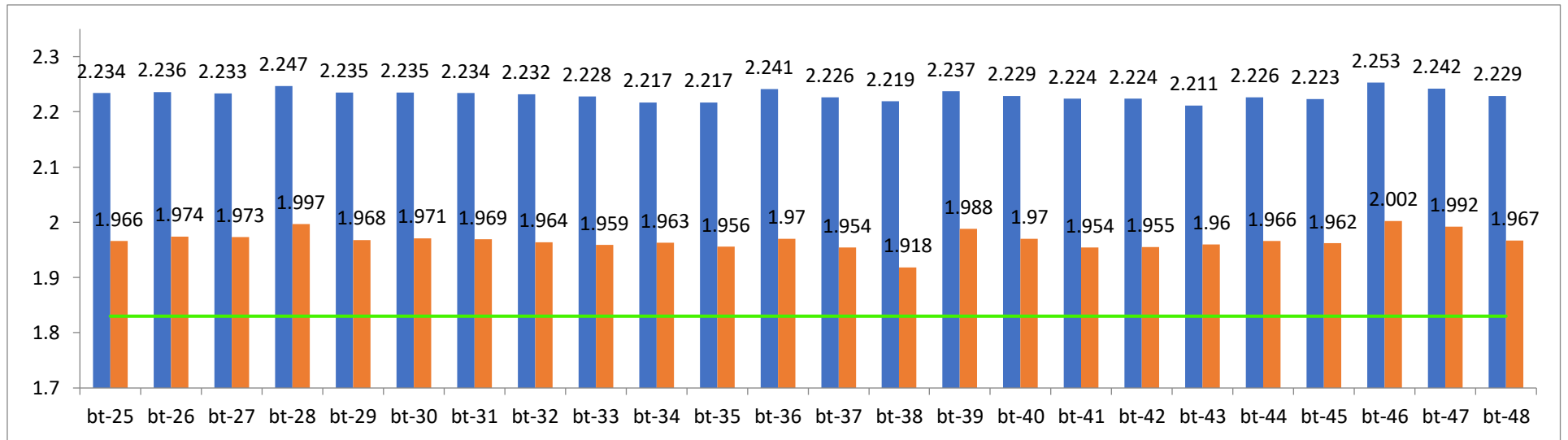
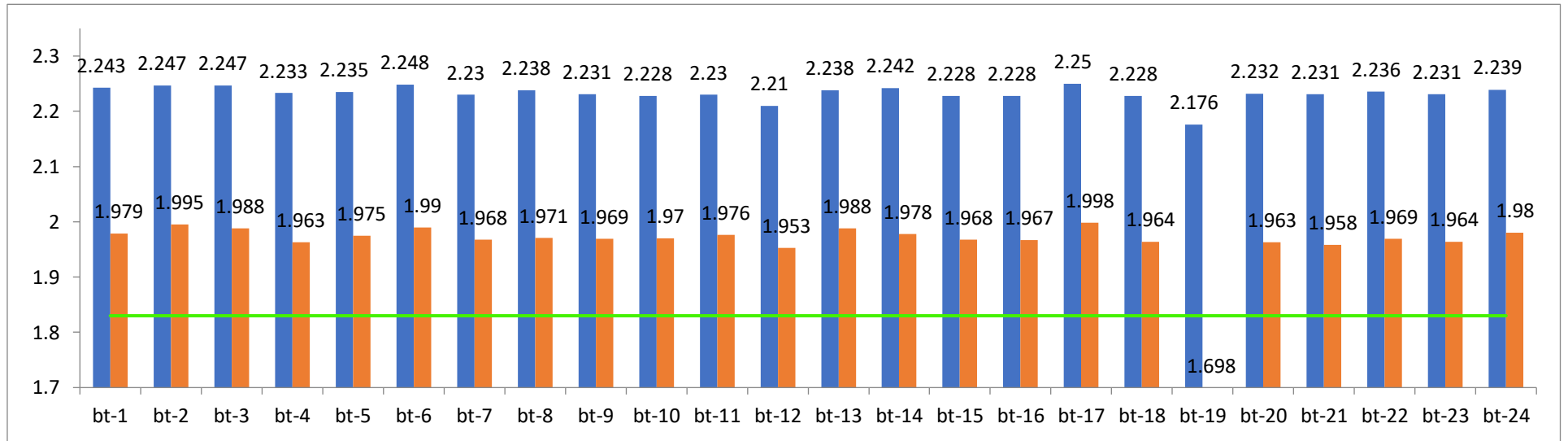
· 셀 순서는 축전지에 부착되어 있는 번호와 같습니다.

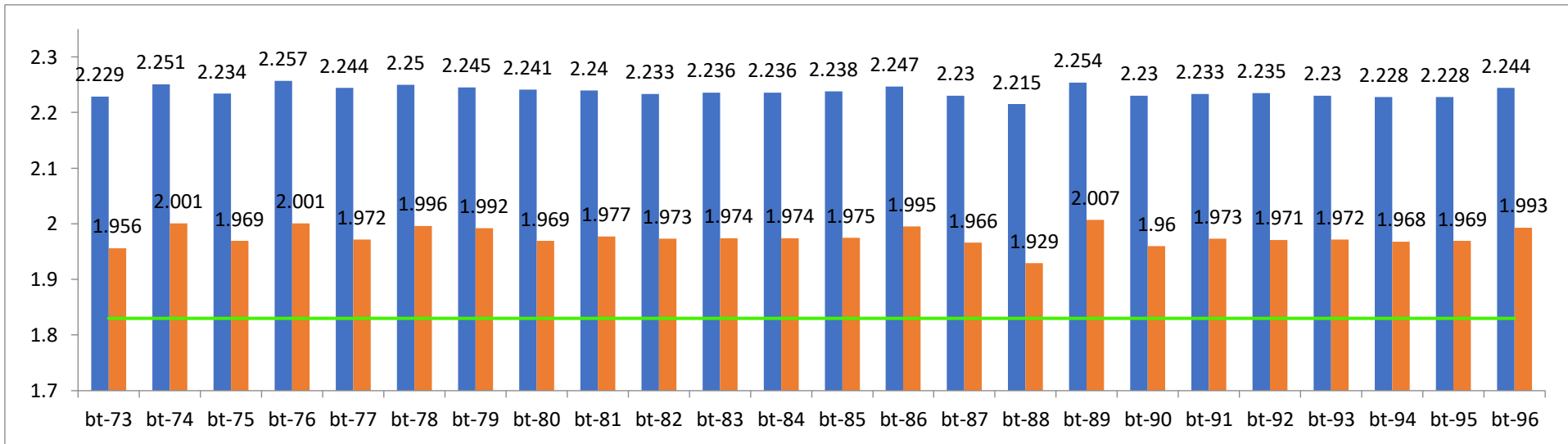
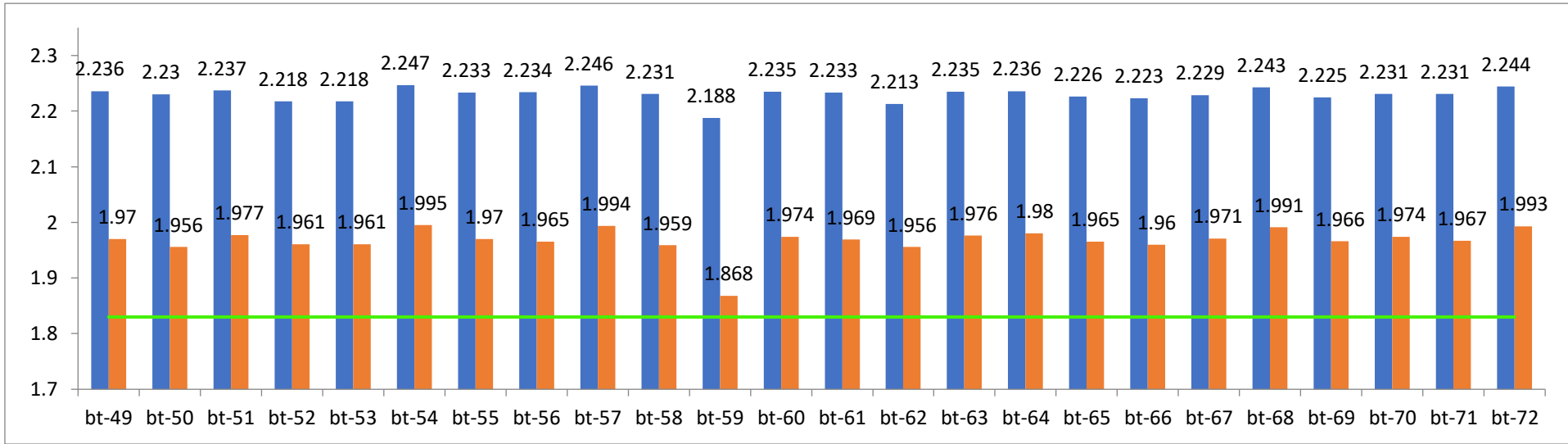
# 1. 방전 전압 특성 곡선

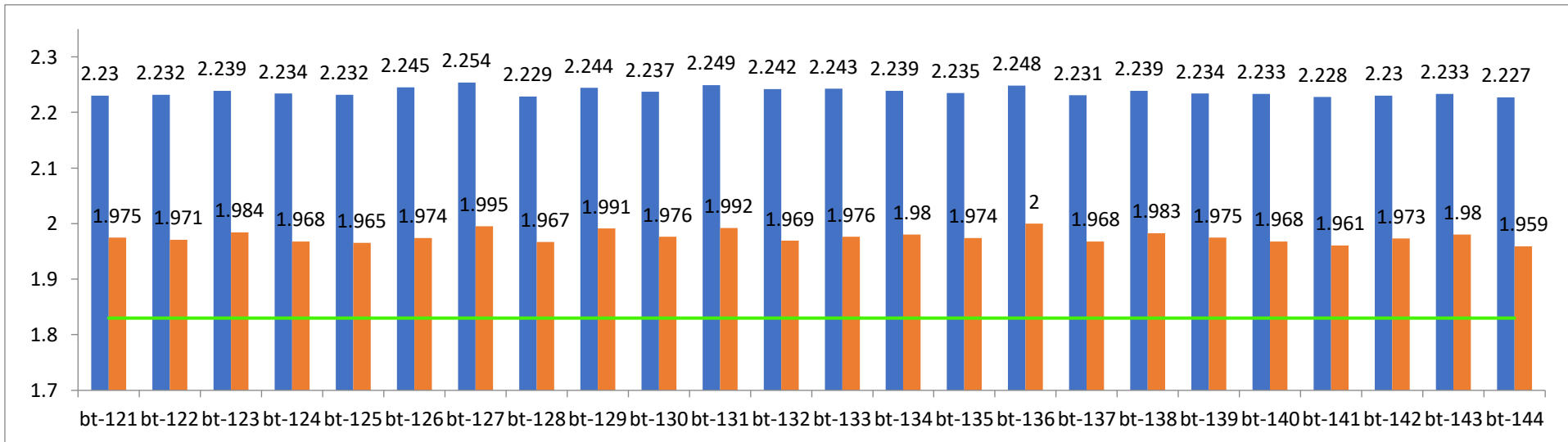
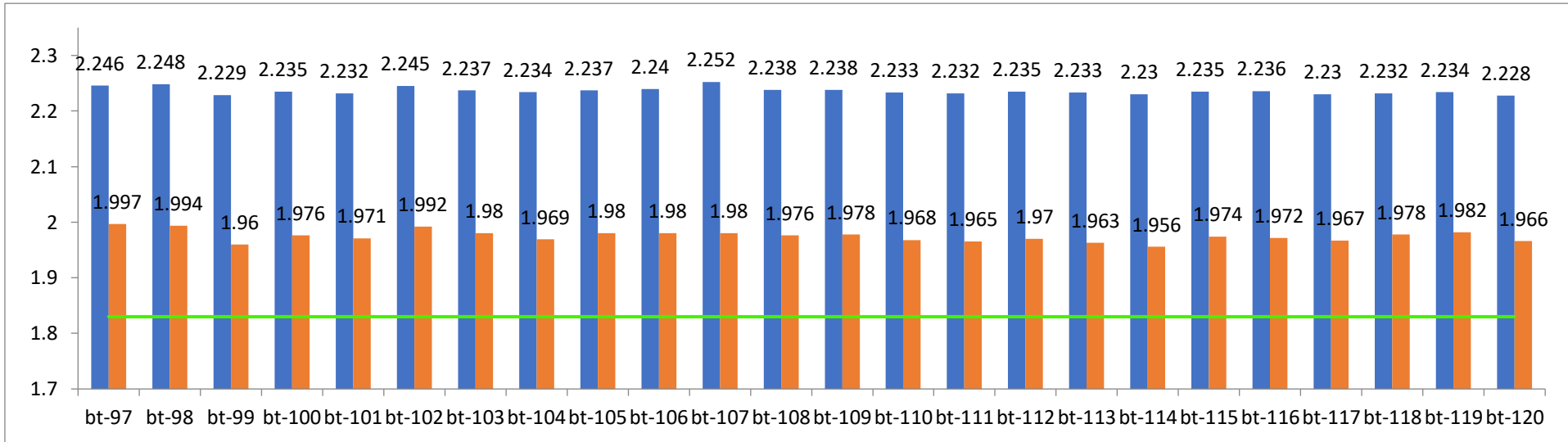


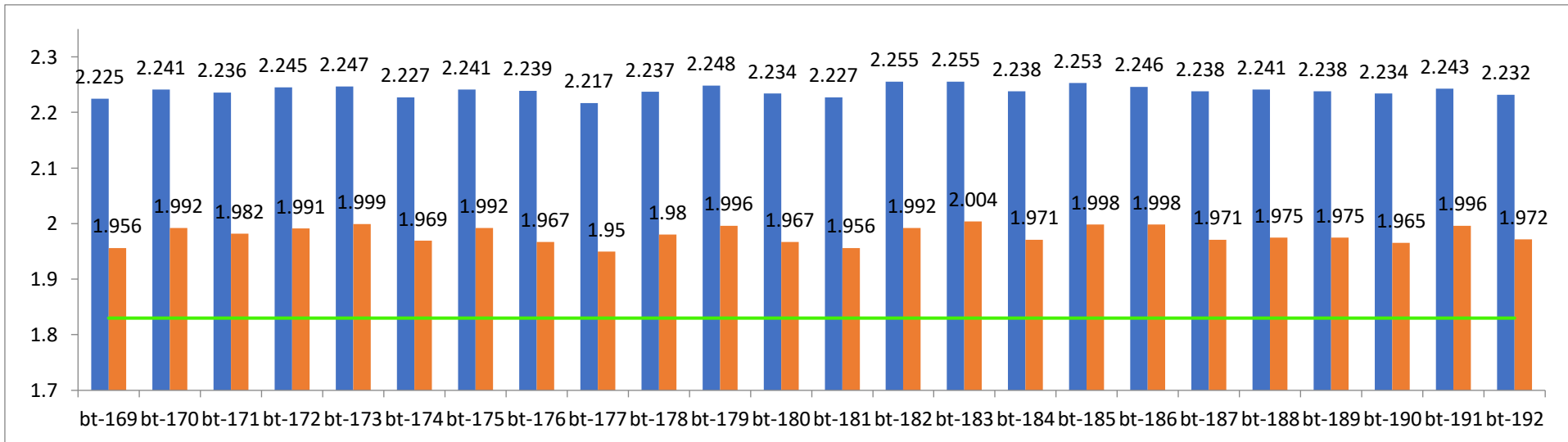
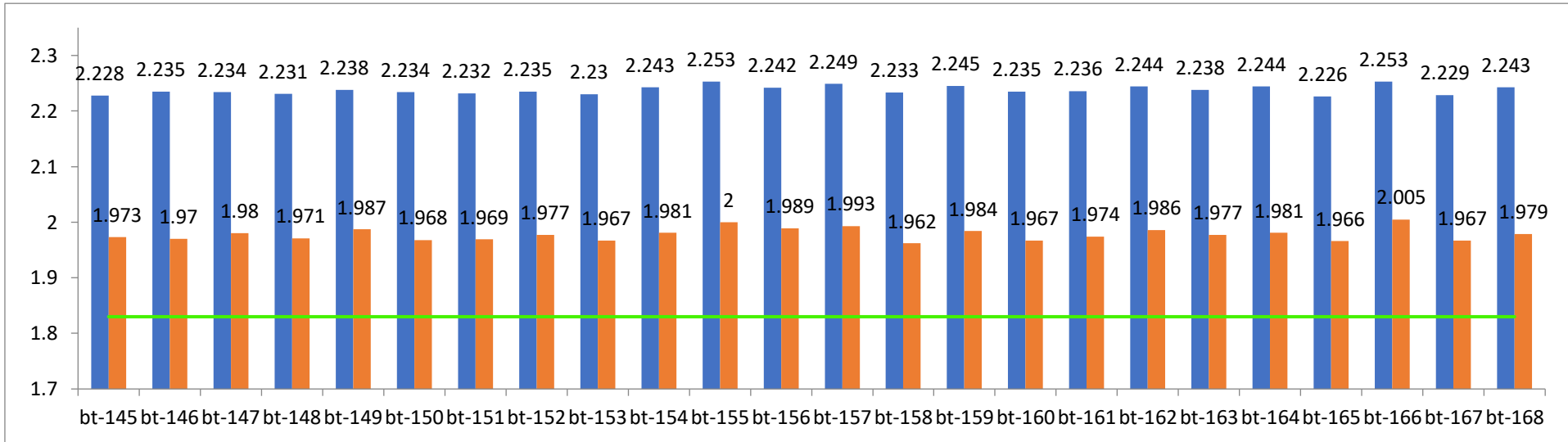
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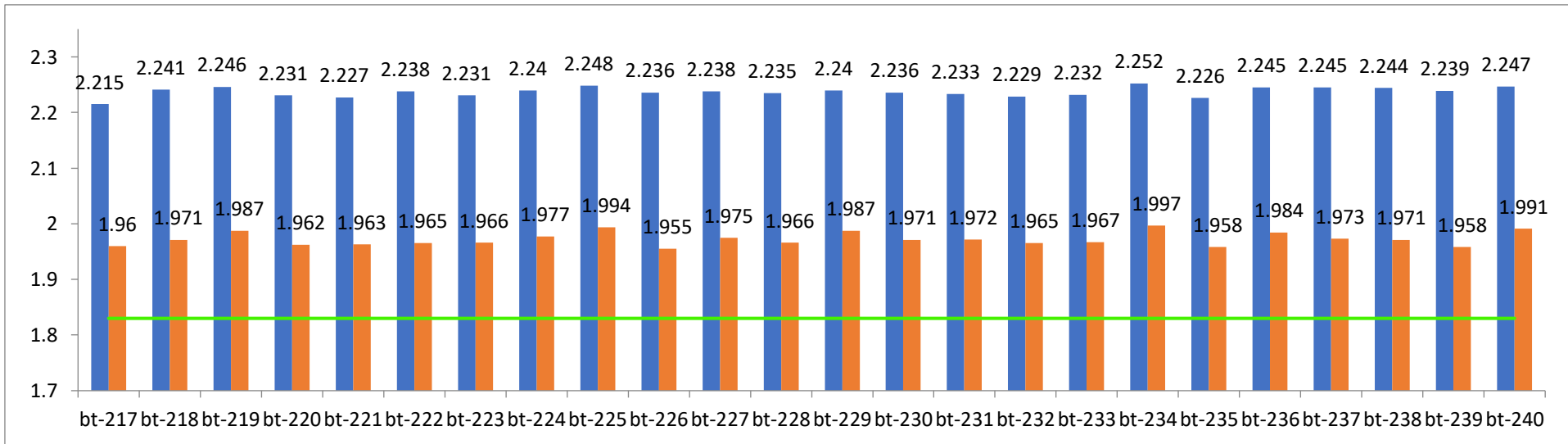
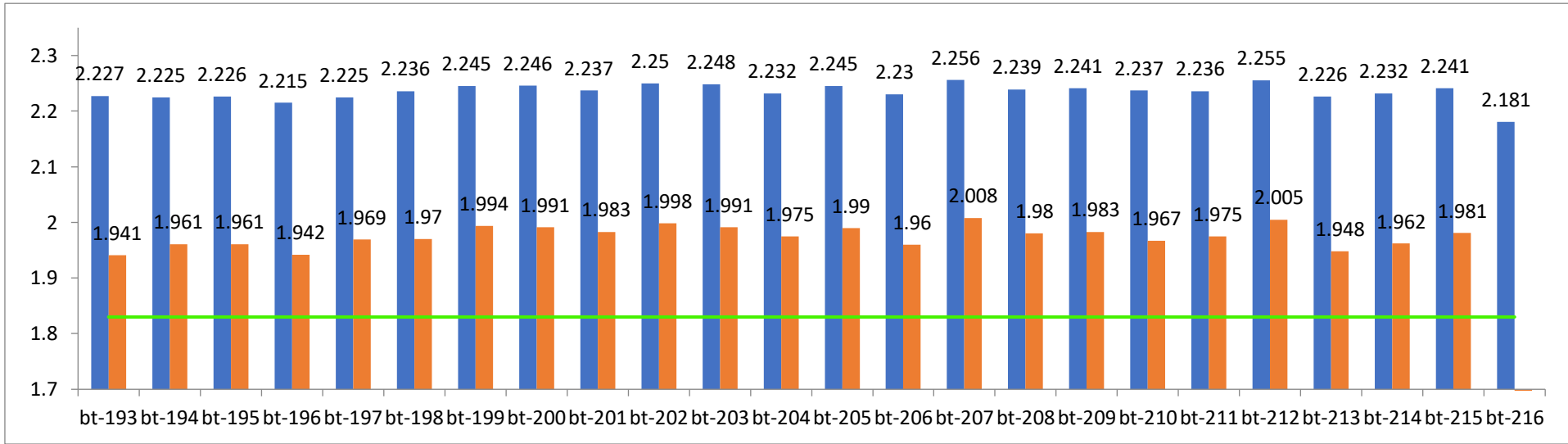
2. 방전 시작 ■/중지 ■/전압 그래프

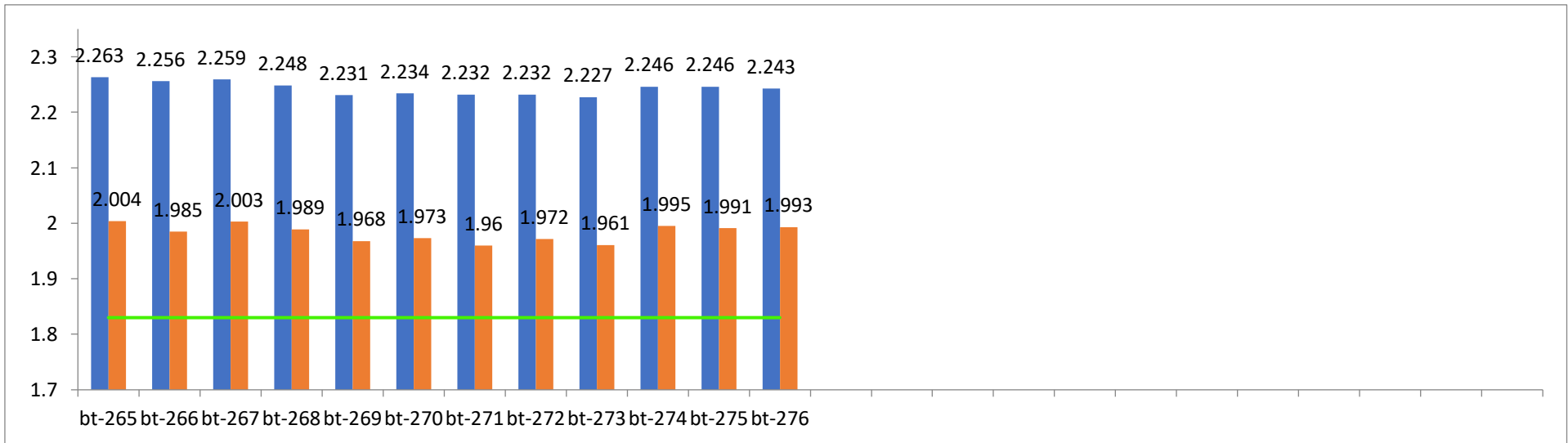
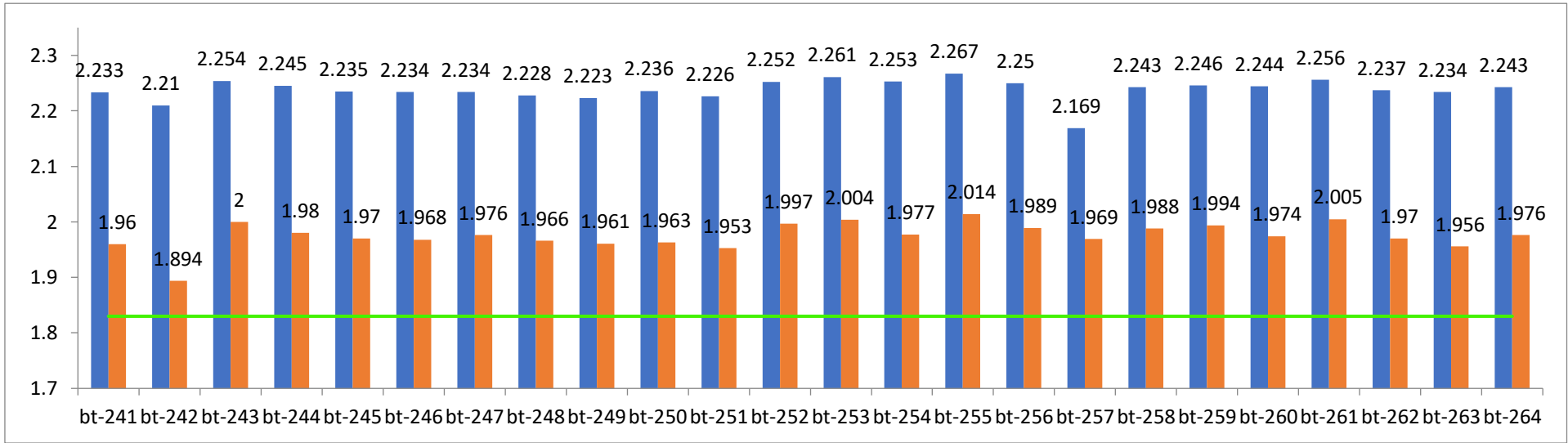




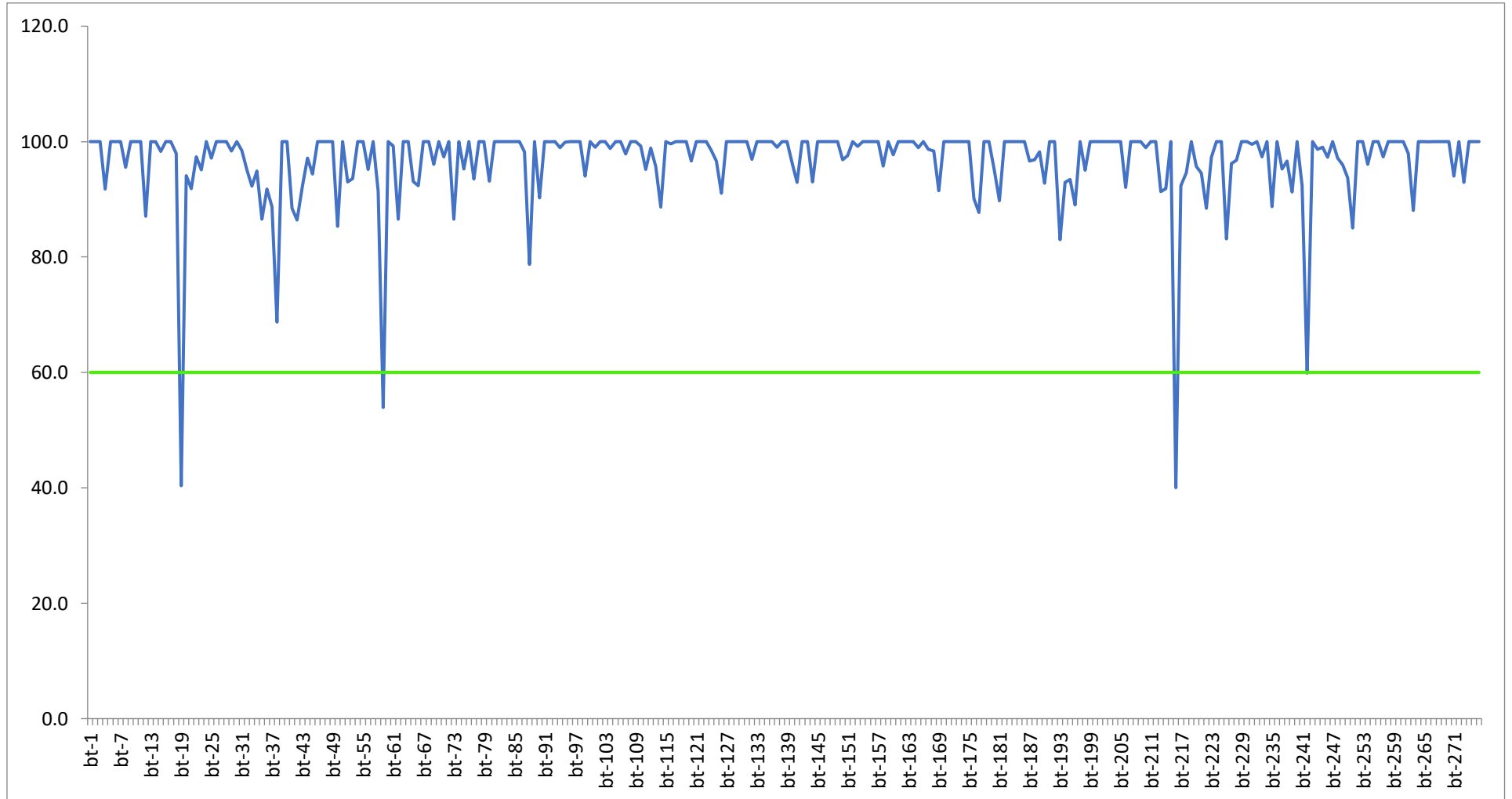




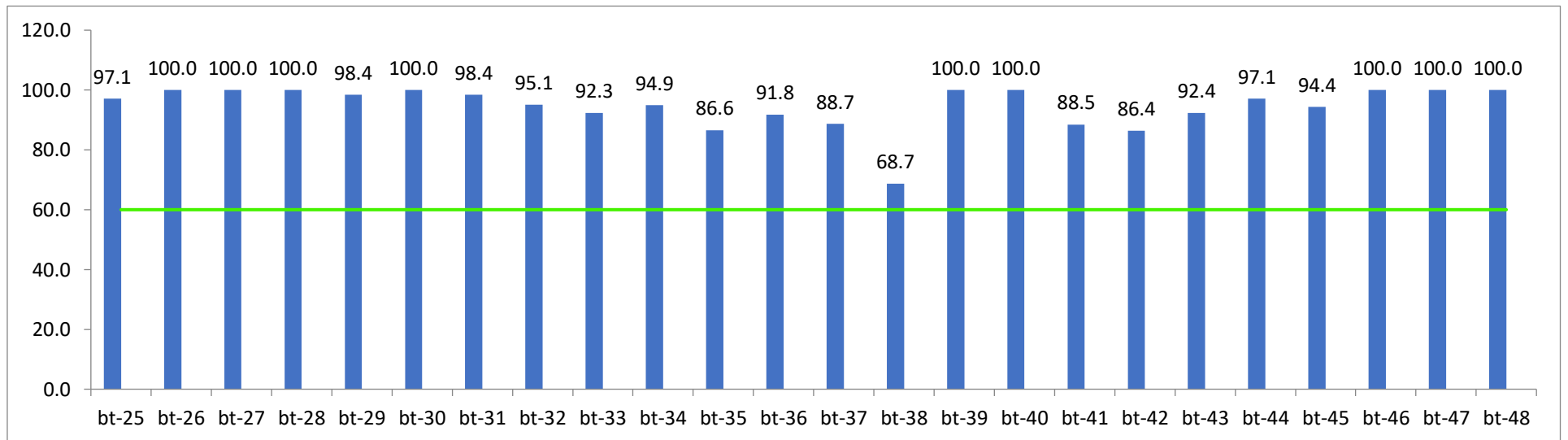
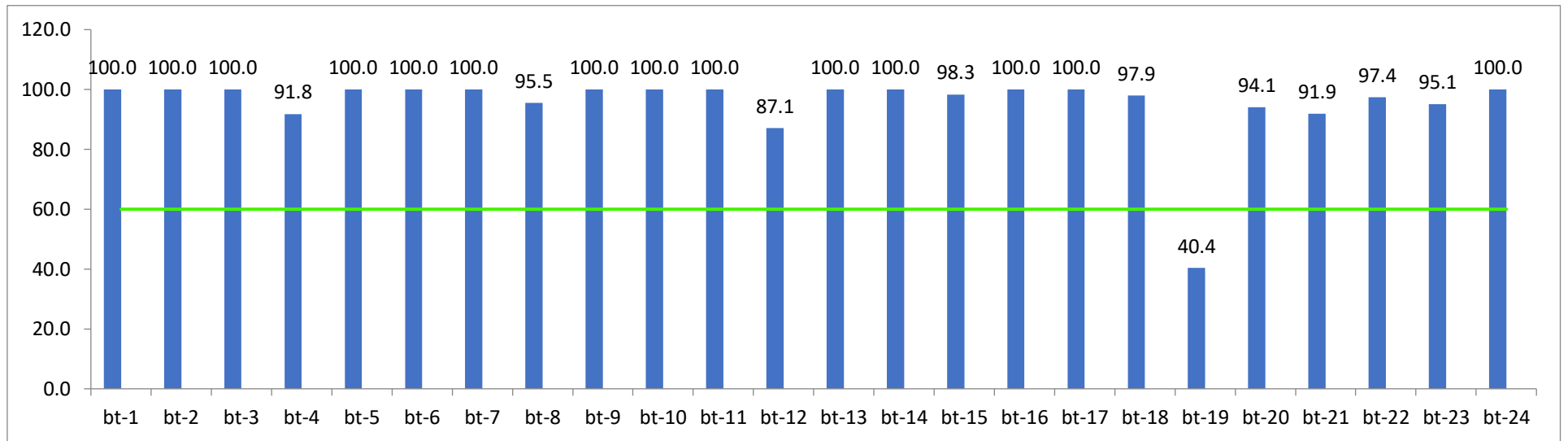


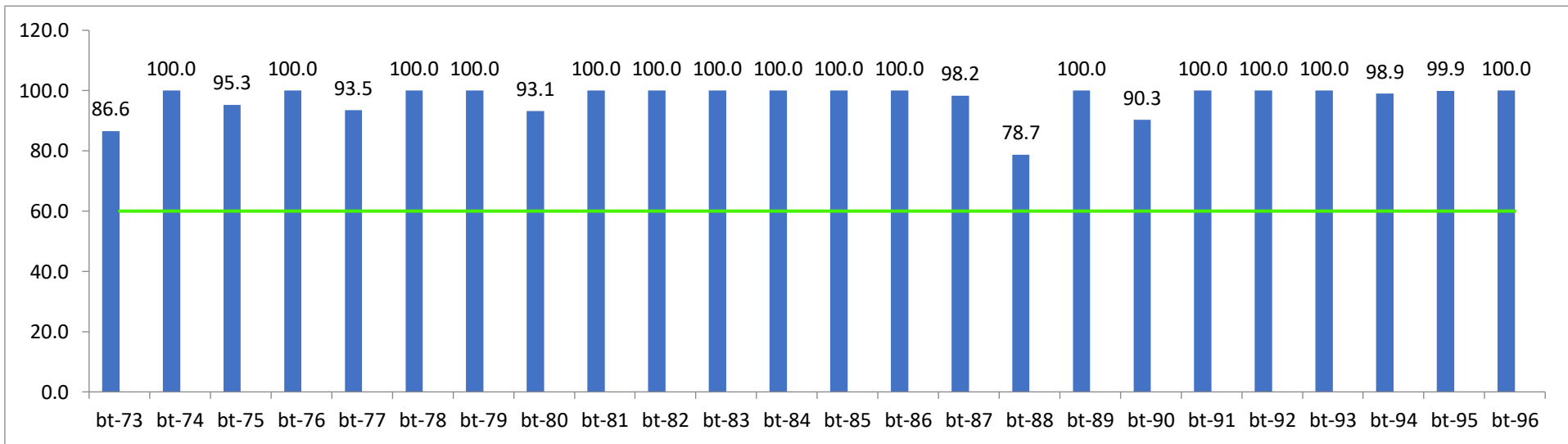
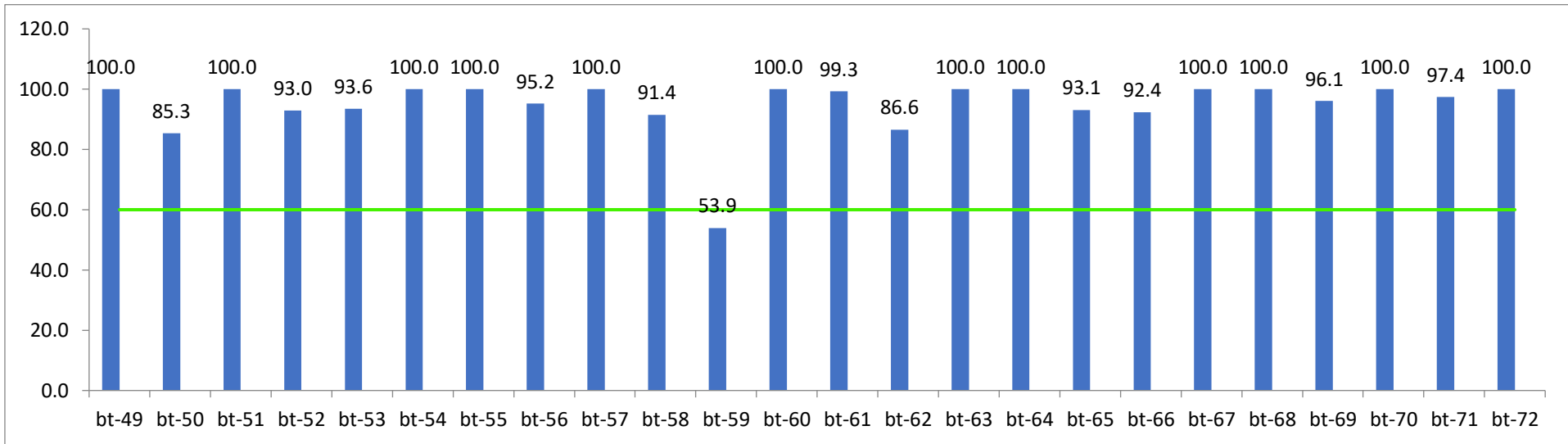


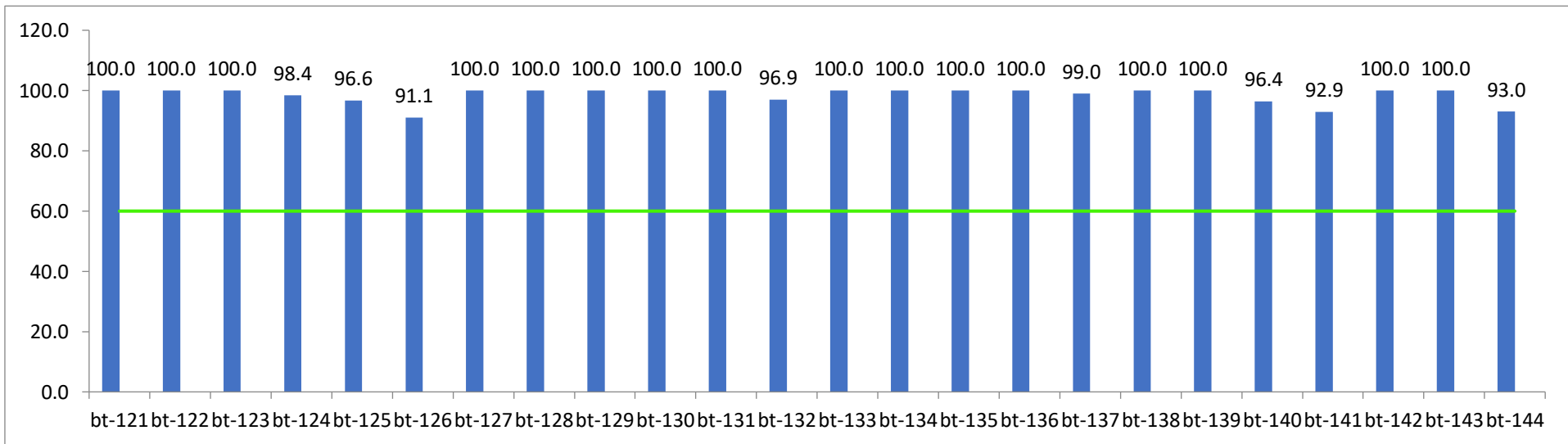
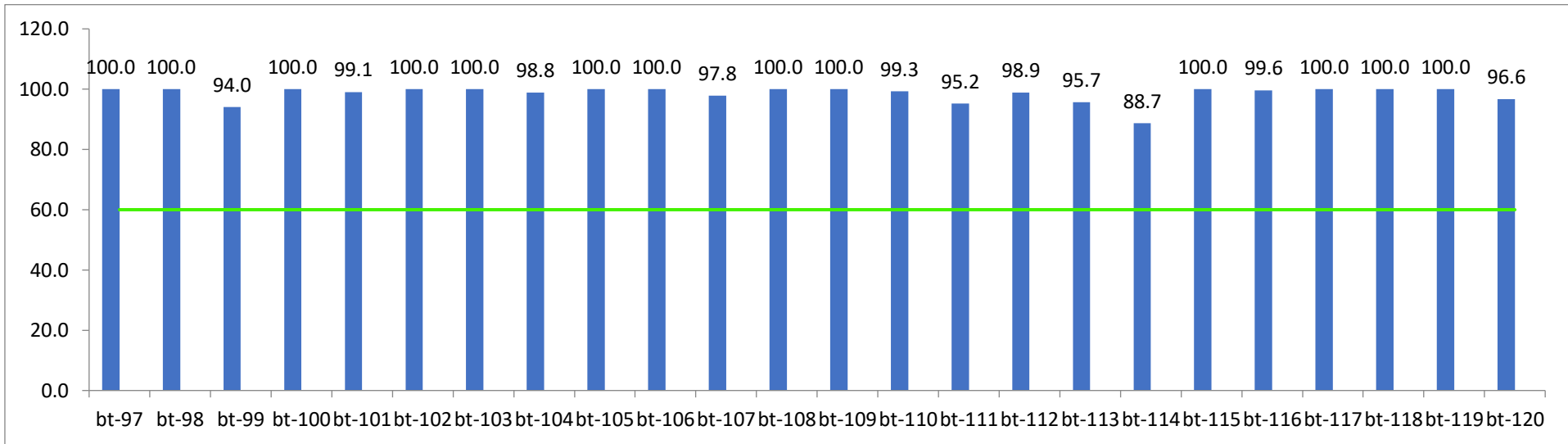
### 3. 셀 별 잔존 용량 (%) - 선 그래프

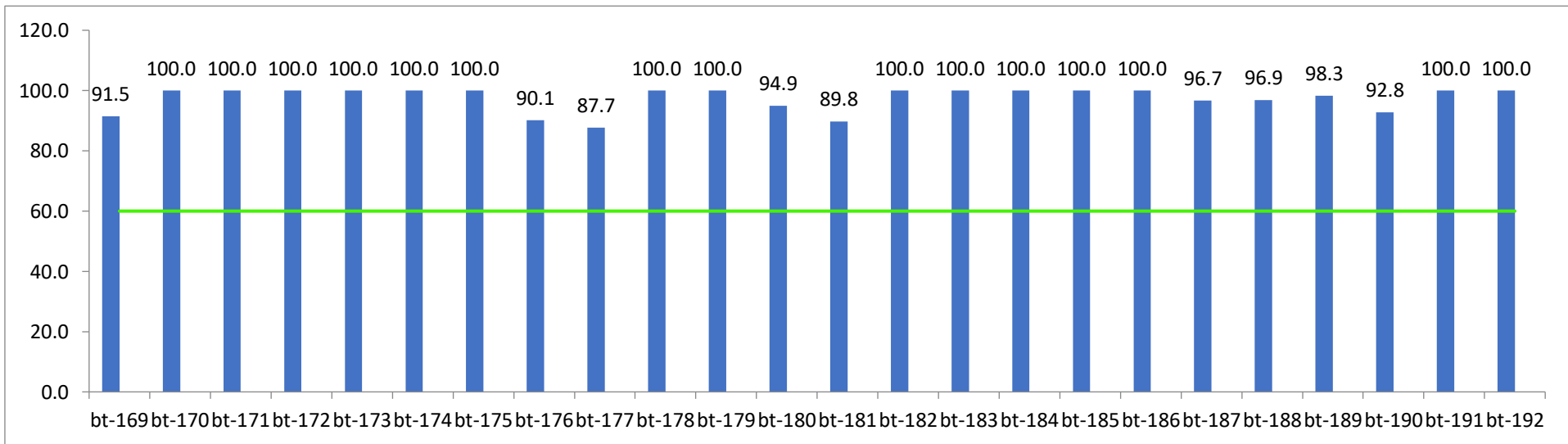
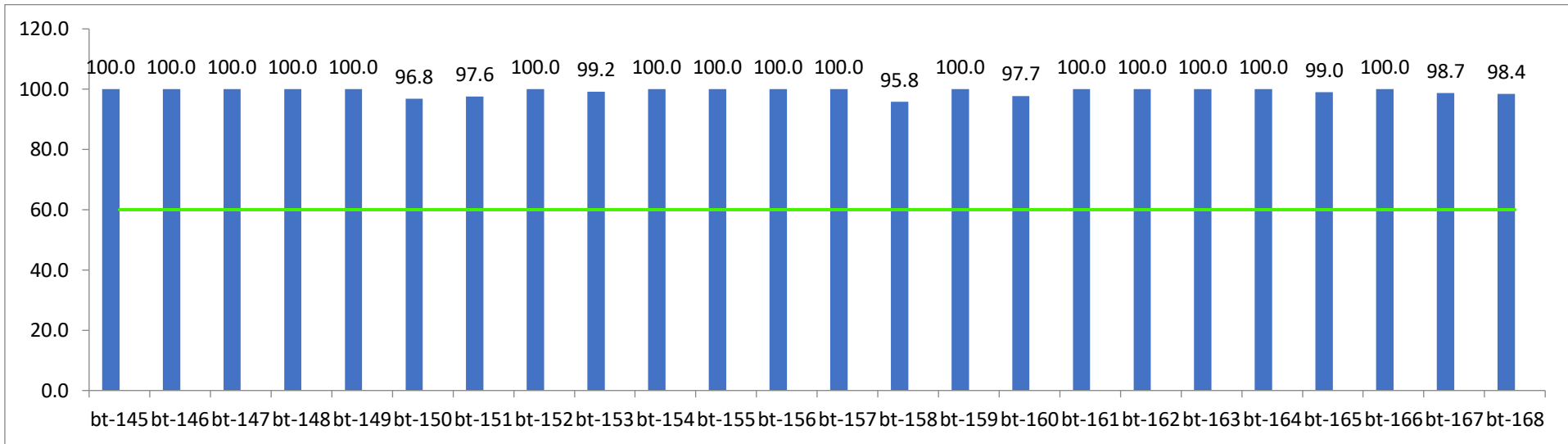


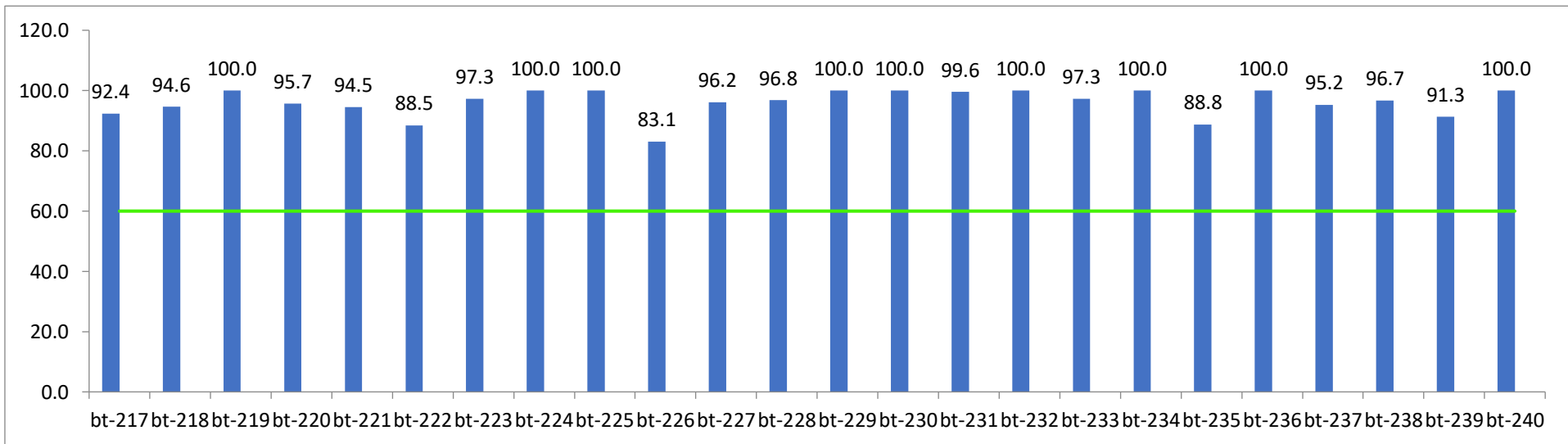
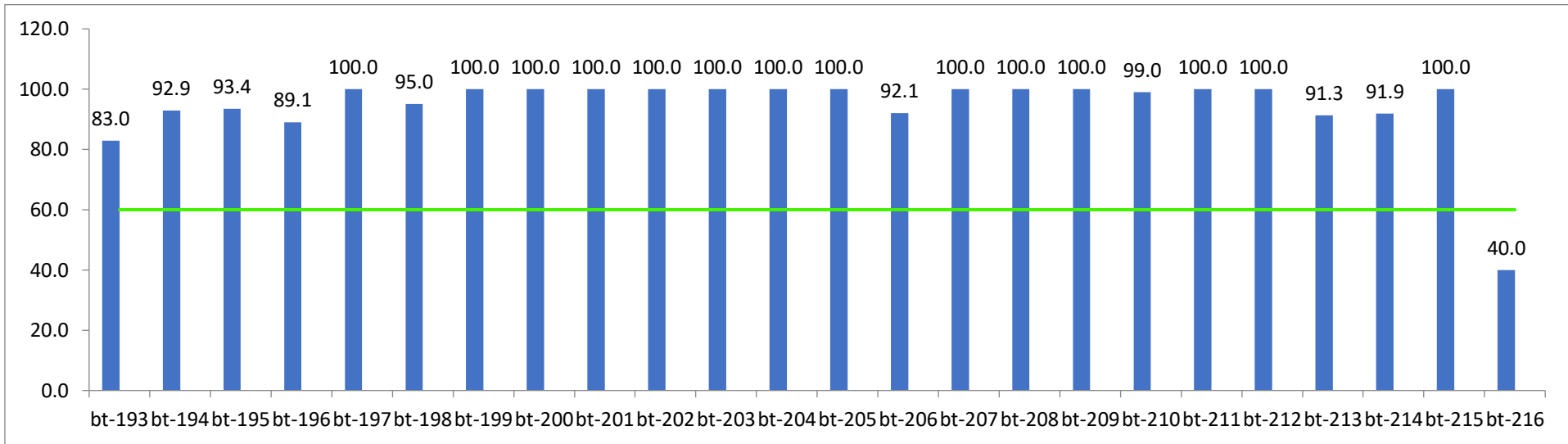
#### 4. 셀 별 잔존용량 (%) - 막대 그래프

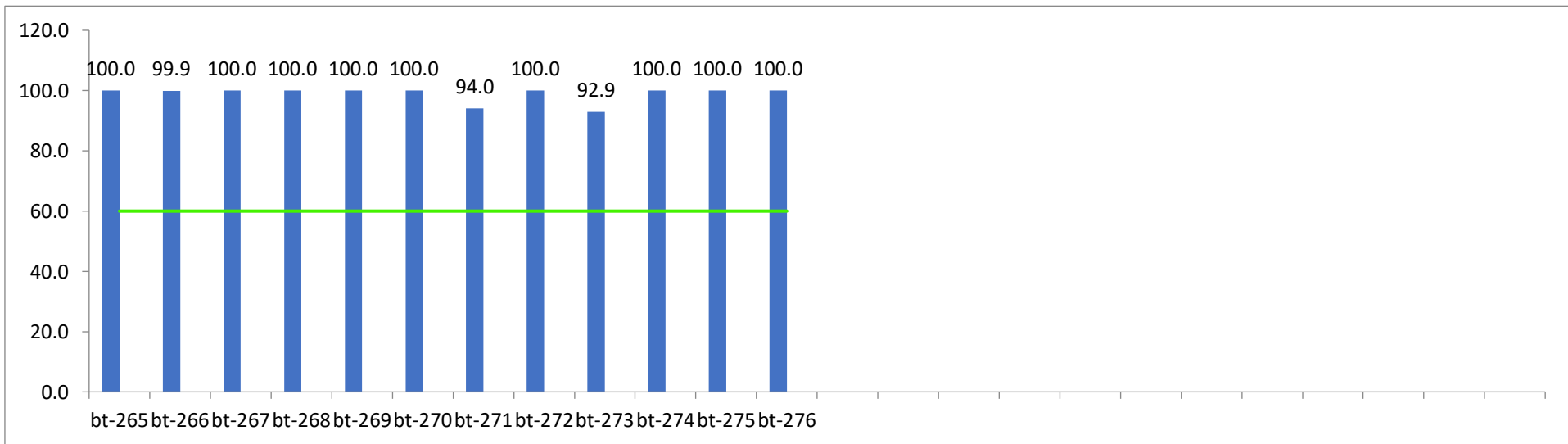
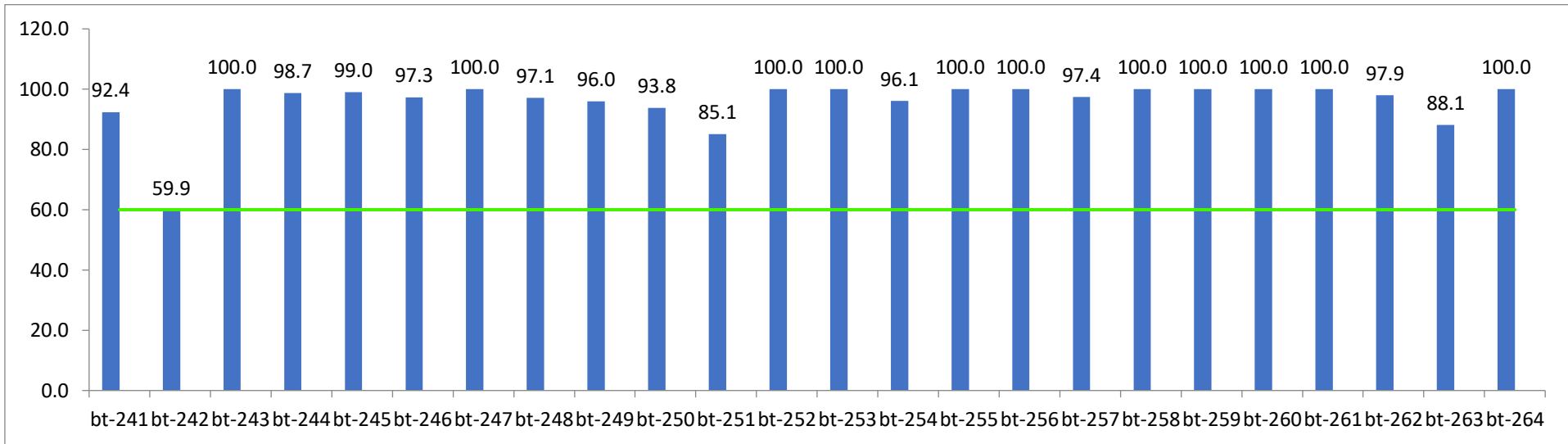












## 5. 최저 셀, 최고 셀 방전특성 비교 그래프

-최고 셀 : 255번 셀 (2.014V)

-최저 셀 : 216번 셀 (1.653V)

