

58ahlion calb.pdf

Device : 1

Channel : 4

Sub Device : 1

Start Test Time : 2023-05-03 10:45:34

End Test Time :

Nda File Name : D:\7.5.4\NdaData\160001-1-4-6571.nda

Unit List

Current	Voltage	Capacity	Capacity Density	Energy	CmpEng	IR	Temperature	Time
A	V	Ah	Ah/kg	mWh	mWh/g	m	°C	Auto

Test Information

Start Step ID : 1

Upper-limit Voltage : 4.4000(V)

P/N : 2023-05-03 10-45-33

Cycle counts : -

Lower-limit Voltage : 2.4000(V)

Creator : -

Upper-limit temperature : -

Upper-limit Current : -

Remark :

Voltage Measuring-range : 5V

Lower-limit Current : -

Record Condition : 60000.0ms/0.0000V/0.0000A

Current Measuring-range : +20000/-20000mA

Start-up Time : 2023-05-03 10:45:34

Battery Barcode :

Step setting scheme

Step ID	Step Name	Time(h:min:s.ms)	Current(A)	Energy(mWh)	Power(mW)	Capacity(Ah)	Aux Record Condition	Min Vi(V)	Min Ti(oC)	Record Condition2	Single-cell Voltage	Stop Condition(V)
			End Current (A)	Change-limit Voltage(V)	Resistance(m ²)	Record Condition	Max Vi(V)	Max Ti(oC)	Record Condition1	Record Condition3		
1	Rest	0:01:00.000					60000.0ms/0.0000V/0.0000A					
2	CCCV_Chg		4.3500	12.0000000			60000.0ms/0.0000V/0.0000A					
3	Rest	0:02:00.000	0.2000				60000.0ms/0.0000V/0.0000A					
4	CC_DChg		2.7500	12.0000000			60000.0ms/0.0000V/0.0000A					
5	Rest	0:02:00.000					60000.0ms/0.0000V/0.0000A					
6	CCCV_Chg		3.8000	12.0000000			60000.0ms/0.0000V/0.0000A					
7	End						60000.0ms/0.0000V/0.0000A					

Cycle Data

Cycle ID	Cap_Chg(Ah)	Chg/DChg Efficiency(%)	Engy_Chg(mWh)	Engy_DChg(mWh)
1	32.5412	185.488	131949.4	226479.7
2	33.8542	0.0000	123068.3	0.0

Step Data

Cycle ID	Step ID	Step Name	Step Time(h:min:s.ms)	Capacity(Ah)	Energy(mWh)	Start Voltage(V)	End Voltage(V)	Charge Mid-Vol(V)	Discharge Mid-Vol(V)
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1		Rest		0.0000		3.7028		0.0000	
1	1	CCCV_Chg	0:00:07.000	32.5412	0.0	3.7245	3.7028	4.0469	0.0000
1	2	Rest	3:59:38.000	0.0000	131949.4	4.3505	4.3508	0.0000	0.0000
1	3	Rest	0:02:00.000	0.0000	0.0	4.3350	4.3498	0.0000	0.0000
1	4	CC_DChg	5:01:52.000	60.3601	226479.7	4.3350	2.7455	0.0000	3.6904
1	5	Rest	0:02:00.000	0.0000	0.0	2.7873	3.0298	0.0000	0.0000
2	6	CCCV_Chg	3:19:42.000	33.8542	123068.3	3.0552	3.8002	3.6613	0.0000

Record Data

Cycle ID	Step ID	Record ID	Time(h:min:s.ms)	Voltage(V)	Current(A)	Capacity(Ah)	Energy(mWh)	Real time
1		1		3.7028		0.0000		2023-05-03 11:45:42
1	1	2	0:00:00.000	3.7028	0.0000	0.0000	0.0	2023-05-03 10:45:49
1	1	3	0:00:07.000	3.7245	0.0000	0.0000	0.0	2023-05-03 10:45:51
1	2	4	0:00:00.000	3.7403	11.9952	0.1966	0.0	2023-05-03 10:46:51
1	2	5	0:00:59.000	3.7465	11.9952	0.3965	734.1	2023-05-03 10:47:51
1	2	6	0:01:59.000	3.7512	11.9952	0.5964	1482.6	2023-05-03 10:48:51
1	2	7	0:02:59.000	3.7549	11.9952	0.7963	2232.0	2023-05-03 10:49:51
1	2	8	0:03:59.000	3.7589	11.9952	0.9963	2982.3	2023-05-03 10:50:51
1	2	9	0:04:59.000	3.7630	11.9952	1.1995	3733.4	2023-05-03 10:51:51
1	2	10	0:06:00.000	3.7667	11.9952	1.3961	4497.8	2023-05-03 10:52:51
1	2	11	0:07:59.000	3.7701	11.9952	1.5960	5237.9	2023-05-03 10:53:51
1	2	12	0:08:59.000	3.7741	11.9952	1.7959	5991.3	2023-05-03 10:54:51
1	2	13	0:09:59.000	3.7779	11.9952	1.9959	6745.5	2023-05-03 10:55:51
1	2	14	0:10:59.000	3.7816	11.9952	2.1958	7500.4	2023-05-03 10:56:51
1	2	15	0:11:59.000	3.7856	11.9952	2.3957	8256.0	2023-05-03 10:57:51
1	2	16	0:11:59.000	3.7893	11.9952	2.5990	9012.5	2023-05-03 10:58:51
1	2	17	0:13:00.000	3.7934	11.9952	2.7989	9782.3	2023-05-03 10:59:51
1	2	18	0:14:00.000	3.7971	11.9952	2.9955	10540.3	2023-05-03 11:00:51
1	2	19	0:14:59.000	3.8008	11.9952	3.1954	11286.4	2023-05-03 11:01:51
1	2	20	0:15:59.000	3.8048	11.9952	3.3953	12045.9	2023-05-03 11:02:51
1	2	21	0:16:59.000	3.8085	11.9952	3.5919	12806.2	2023-05-03 11:03:51
1	2	22	0:17:58.000	3.8123	11.9952	3.7952	13554.6	2023-05-03 11:04:51
1	2	23	0:18:59.000	3.8163	11.9952	3.9917	14329.1	2023-05-03 11:05:51
1	2	24	0:19:58.000	3.8197	11.9952	4.1917	15078.9	2023-05-03 11:06:51
1	2	25	0:20:58.000	3.8234	11.9952	4.3916	15842.2	2023-05-03 11:07:51
1	2	26	0:21:58.000	3.8275	11.9952	4.5948	16606.2	2023-05-03 11:08:51
1	2		0:22:59.000		11.9952		17383.8	

1		27		3.8312		4.7914		2023-05-03 11:09:51
1	2	28	0:23:58.000	3.8352	11.9952	4.9913	18136.6	2023-05-03 11:10:51
1	2	29	0:24:58.000	3.8386	11.9952	5.1913	18902.8	2023-05-03 11:11:51
1	2	30	0:25:58.000	3.8423	11.9952	5.3912	19669.9	2023-05-03 11:12:51
1	2	31	0:26:58.000	3.8461	11.9952	5.5911	20437.7	2023-05-03 11:13:51
1	2	32	0:27:58.000	3.8498	11.9952	5.7910	21206.2	2023-05-03 11:14:51
1	2	33	0:28:58.000	3.8532	11.9952	5.9909	21975.4	2023-05-03 11:15:51
1	2	34	0:29:58.000	3.8572	11.9952	6.1909	22745.4	2023-05-03 11:16:51
1	2	35	0:30:58.000	3.8609	11.9952	6.3908	23516.2	2023-05-03 11:17:51
1	2	36	0:31:58.000	3.8643	11.9952	6.5907	24287.7	2023-05-03 11:18:51
1	2	37	0:32:58.000	3.8681	11.9952	6.7906	25059.8	2023-05-03 11:19:51
1	2	38	0:33:58.000	3.8715	11.9952	6.9905	25832.8	2023-05-03 11:20:51
1	2	39	0:34:58.000	3.8752	11.9952	7.1905	26606.5	2023-05-03 11:21:51
1	2	40	0:35:58.000	3.8792	11.9952	7.3904	27380.8	2023-05-03 11:22:51
1	2	41	0:36:58.000	3.8826	11.9952	7.5903	28156.0	2023-05-03 11:23:51
1	2	42	0:37:58.000	3.8860	11.9952	7.7902	28931.8	2023-05-03 11:24:51
1	2	43	0:38:58.000	3.8901	11.9952	7.9935	29708.4	2023-05-03 11:25:51
1	2	44	0:39:59.000	3.8935	11.9952	8.1934	30498.7	2023-05-03 11:26:51
1	2	45	0:40:59.000	3.8969	11.9952	8.3900	31276.7	2023-05-03 11:27:51
1	2	46	0:41:58.000	3.9009	11.9952	8.5899	32042.5	2023-05-03 11:28:51
1	2	47	0:42:58.000	3.9043	11.9952	8.7898	32822.0	2023-05-03 11:29:51
1	2	48	0:43:58.000	3.9084	11.9952	8.9897	33602.2	2023-05-03 11:30:51
1	2	49	0:44:58.000	3.9118	11.9952	9.1930	34383.1	2023-05-03 11:31:51
1	2	50	0:45:59.000	3.9155	11.9952	9.3896	35177.9	2023-05-03 11:32:51
1	2	51	0:46:58.000	3.9195	11.9952	9.5928	35947.3	2023-05-03 11:33:51
1	2	52	0:47:59.000	3.9229	11.9952	9.7894	36743.5	2023-05-03 11:34:51
1	2	53	0:48:58.000	3.9264	11.9952	9.9927	37514.3	2023-05-03 11:35:51
1	2	54	0:49:59.000	3.9304	11.9952	10.1893	38312.0	2023-05-03 11:36:51
1	2	55	0:50:58.000	3.9341	11.9952	10.3925	39084.3	2023-05-03 11:37:51
1	2	56	0:51:59.000	3.9375	11.9952	10.5891	39883.6	2023-05-03 11:38:51
1	2	57	0:52:58.000	3.9415	11.9952	10.7890	40657.3	2023-05-03 11:39:51
1	2	58	0:53:58.000	3.9453	11.9952	10.9889	41445.0	2023-05-03 11:40:51
1	2	59	0:54:58.000	3.9490	11.9952	11.1889	42233.3	2023-05-03 11:41:51
1	2	60	0:55:58.000	3.9530	11.9952	11.3888	43022.4	2023-05-03 11:42:51
1	2	61	0:56:58.000	3.9567	11.9952	11.5887	43812.3	2023-05-03 11:43:51
1	2	62	0:57:58.000	3.9601	11.9952	11.7886	44602.9	2023-05-03 11:44:51
1	2		0:58:58.000				45394.3	

1		63		3.9642		11.9885		2023-05-03 11:45:51
1	2	64	0:59:58.000	3.9679	11.9952	12.1885	46186.5	2023-05-03 11:46:51
1	2	65	1:00:58.000	3.9719	11.9952	12.3917	46979.4	2023-05-03 11:47:51
1	2	66	1:01:59.000	3.9756	11.9952	12.5883	47786.3	2023-05-03 11:48:51
1	2	67	1:02:58.000	3.9794	11.9952	12.7882	48567.5	2023-05-03 11:49:51
1	2	68	1:03:58.000	3.9834	11.9952	12.9881	49362.7	2023-05-03 11:50:51
1	2	69	1:04:58.000	3.9871	11.9952	13.1881	50158.6	2023-05-03 11:51:51
1	2	70	1:05:58.000	3.9911	11.9952	13.3880	50955.4	2023-05-03 11:52:51
1	2	71	1:06:58.000	3.9952	11.9952	13.5879	51752.9	2023-05-03 11:53:51
1	2	72	1:07:58.000	3.9989	11.9952	13.7878	52551.2	2023-05-03 11:54:51
1	2	73	1:08:58.000	4.0029	11.9952	13.9877	53350.2	2023-05-03 11:55:51
1	2	74	1:09:58.000	4.0070	11.9952	14.1877	54150.1	2023-05-03 11:56:51
1	2	75	1:10:58.000	4.0107	11.9952	14.3876	54950.7	2023-05-03 11:57:51
1	2	76	1:11:58.000	4.0147	11.9952	14.5908	55752.1	2023-05-03 11:58:51
1	2	77	1:12:59.000	4.0187	11.9952	14.7874	56567.7	2023-05-03 11:59:51
1	2	78	1:13:58.000	4.0225	11.9952	14.9873	57357.4	2023-05-03 12:00:51
1	2	79	1:14:58.000	4.0268	11.9952	15.1873	58161.2	2023-05-03 12:01:51
1	2	80	1:15:58.000	4.0305	11.9952	15.3872	58965.8	2023-05-03 12:02:51
1	2	81	1:16:58.000	4.0349	11.9952	15.5871	59771.2	2023-05-03 12:03:51
1	2	82	1:17:58.000	4.0389	11.9952	15.7870	60577.4	2023-05-03 12:04:51
1	2	83	1:18:58.000	4.0426	11.9952	15.9869	61384.4	2023-05-03 12:05:51
1	2	84	1:19:58.000	4.0469	11.9952	16.1869	62192.2	2023-05-03 12:06:51
1	2	85	1:20:58.000	4.0510	11.9952	16.3868	63000.9	2023-05-03 12:07:51
1	2	86	1:21:58.000	4.0553	11.9952	16.5867	63810.3	2023-05-03 12:08:51
1	2	87	1:22:58.000	4.0593	11.9952	16.7866	64620.6	2023-05-03 12:09:51
1	2	88	1:23:58.000	4.0634	11.9952	16.9865	65431.7	2023-05-03 12:10:51
1	2	89	1:24:58.000	4.0677	11.9952	17.1865	66243.7	2023-05-03 12:11:51
1	2	90	1:25:58.000	4.0718	11.9952	17.3897	67056.4	2023-05-03 12:12:51
1	2	91	1:26:59.000	4.0761	11.9952	17.5863	67883.6	2023-05-03 12:13:51
1	2	92	1:27:58.000	4.0801	11.9952	17.7862	68684.4	2023-05-03 12:14:51
1	2	93	1:28:58.000	4.0842	11.9952	17.9861	69499.7	2023-05-03 12:15:51
1	2	94	1:29:58.000	4.0885	11.9952	18.1861	70315.8	2023-05-03 12:16:51
1	2	95	1:30:58.000	4.0925	11.9952	18.3860	71132.7	2023-05-03 12:17:51
1	2	96	1:31:58.000	4.0966	11.9952	18.5859	71950.5	2023-05-03 12:18:51
1	2	97	1:32:58.000	4.1012	11.9952	18.7858	72769.1	2023-05-03 12:19:51
1	2	98	1:33:58.000	4.1052	11.9952	18.9857	73588.6	2023-05-03 12:20:51
1	2		1:34:58.000		11.9952		74408.9	

1		99		4.1096		19.1857		2023-05-03 12:21:51
1	2	100	1:35:58.000	4.1136	11.9952	19.3889	75230.0	2023-05-03 12:22:51
1	2	101	1:36:59.000	4.1176	11.9952	19.5855	76065.7	2023-05-03 12:23:51
1	2	102	1:37:58.000	4.1223	11.9952	19.7854	76874.8	2023-05-03 12:24:51
1	2	103	1:38:58.000	4.1263	11.9952	19.9887	77698.4	2023-05-03 12:25:51
1	2	104	1:39:59.000	4.1307	11.9952	20.1853	78536.7	2023-05-03 12:26:51
1	2	105	1:40:58.000	4.1347	11.9952	20.3852	79348.3	2023-05-03 12:27:51
1	2	106	1:41:58.000	4.1387	11.9952	20.5851	80174.5	2023-05-03 12:28:51
1	2	107	1:42:58.000	4.1431	11.9952	20.7850	81001.5	2023-05-03 12:29:51
1	2	108	1:43:58.000	4.1474	11.9952	20.9849	81829.4	2023-05-03 12:30:51
1	2	109	1:44:58.000	4.1517	11.9952	21.1849	82658.1	2023-05-03 12:31:51
1	2	110	1:45:58.000	4.1558	11.9952	21.3848	83487.6	2023-05-03 12:32:51
1	2	111	1:46:58.000	4.1601	11.9952	21.5847	84318.0	2023-05-03 12:33:51
1	2	112	1:47:58.000	4.1641	11.9952	21.7846	85149.3	2023-05-03 12:34:51
1	2	113	1:48:58.000	4.1682	11.9952	21.9845	85981.3	2023-05-03 12:35:51
1	2	114	1:49:58.000	4.1725	11.9952	22.1845	86814.2	2023-05-03 12:36:51
1	2	115	1:50:58.000	4.1765	11.9952	22.3844	87648.0	2023-05-03 12:37:51
1	2	116	1:51:58.000	4.1806	11.9952	22.5843	88482.6	2023-05-03 12:38:51
1	2	117	1:52:58.000	4.1849	11.9952	22.7842	89317.9	2023-05-03 12:39:51
1	2	118	1:53:58.000	4.1889	11.9952	22.9841	90154.2	2023-05-03 12:40:51
1	2	119	1:54:58.000	4.1933	11.9952	23.1841	90991.3	2023-05-03 12:41:51
1	2	120	1:55:58.000	4.1973	11.9952	23.3840	91829.1	2023-05-03 12:42:51
1	2	121	1:56:58.000	4.2013	11.9952	23.5839	92667.8	2023-05-03 12:43:51
1	2	122	1:57:58.000	4.2057	11.9952	23.7838	93507.4	2023-05-03 12:44:51
1	2	123	1:58:58.000	4.2097	11.9952	23.9837	94347.8	2023-05-03 12:45:51
1	2	124	1:59:58.000	4.2140	11.9952	24.1870	95188.9	2023-05-03 12:46:51
1	2	125	2:00:59.000	4.2181	11.9952	24.3836	96045.0	2023-05-03 12:47:51
1	2	126	2:01:58.000	4.2221	11.9952	24.5868	96873.8	2023-05-03 12:48:51
1	2	127	2:02:59.000	4.2261	11.9952	24.7834	97731.5	2023-05-03 12:49:51
1	2	128	2:03:58.000	4.2302	11.9952	24.9833	98561.9	2023-05-03 12:50:51
1	2	129	2:04:58.000	4.2345	11.9952	25.1833	99407.2	2023-05-03 12:51:51
1	2	130	2:05:58.000	4.2385	11.9952	25.3832	100253.4	2023-05-03 12:52:51
1	2	131	2:06:58.000	4.2426	11.9952	25.5831	101100.3	2023-05-03 12:53:51
1	2	132	2:07:58.000	4.2469	11.9952	25.7830	101948.1	2023-05-03 12:54:51
1	2	133	2:08:58.000	4.2506	11.9952	25.9829	102796.7	2023-05-03 12:55:51
1	2	134	2:09:58.000	4.2553	11.9952	26.1862	103646.1	2023-05-03 12:56:51
1	2		2:10:59.000		11.9952		104510.5	

1		135		4.2593		26.3828		2023-05-03 12:57:51
1	2	136	2:11:58.000	4.2630	11.9952	26.5827	105347.4	2023-05-03 12:58:51
1	2	137	2:12:58.000	4.2677	11.9952	26.7859	106199.3	2023-05-03 12:59:51
1	2	138	2:13:59.000	4.2717	11.9940	26.9859	107066.2	2023-05-03 13:00:51
1	2	139	2:14:59.000	4.2761	11.9940	27.1824	107919.8	2023-05-03 13:01:51
1	2	140	2:15:58.000	4.2801	11.9940	27.3824	108760.0	2023-05-03 13:02:51
1	2	141	2:16:58.000	4.2844	11.9952	27.5823	109615.2	2023-05-03 13:03:51
1	2	142	2:17:58.000	4.2888	11.9952	27.7855	110471.3	2023-05-03 13:04:51
1	2	143	2:18:59.000	4.2931	11.9952	27.9821	111342.5	2023-05-03 13:05:51
1	2	144	2:19:58.000	4.2974	11.9952	28.1820	112186.1	2023-05-03 13:06:51
1	2	145	2:20:58.000	4.3018	11.9952	28.3820	113044.7	2023-05-03 13:07:51
1	2	146	2:21:58.000	4.3061	11.9952	28.5819	113904.3	2023-05-03 13:08:51
1	2	147	2:22:58.000	4.3111	11.9952	28.7851	114764.8	2023-05-03 13:09:51
1	2	148	2:23:59.000	4.3154	11.9952	28.9817	115640.5	2023-05-03 13:10:51
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	2		3:26:57.000		0.4154		131211.0	
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	2		3:30:57.000		0.3844		131328.7	
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	2		3:39:57.000		0.3224		131559.9	
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	2		3:41:57.000		0.3199		131605.7	
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	2		3:47:57.000		0.2529		131733.4	
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1	3	246	0:00:59.000	4.3498	0.0000	0.0000	0.0	2023-05-03 14:47:32
1	3	247	0:01:59.000	4.3498	0.0000	0.0000	0.0	2023-05-03 14:47:32
1	3	248	0:02:00.000	4.3350	0.0000	0.0000	0.0	2023-05-03 14:47:33
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1	4	250	0:00:59.000	4.3052	-11.9977	0.3966	850.0	2023-05-03 14:49:33
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1	4	252	0:02:59.000	4.2888	-11.9965	0.7965	2571.8	2023-05-03 14:51:33
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1	5	554	0:00:59.000	3.0298	0.0000	0.0000	0.0000	0.0	2023-05-03 19:51:42
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2		639		3.6588		16.5783		2023-05-03 21:14:43
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2	6	641	1:23:55.000	3.6613	11.9952	16.9782	59470.1	2023-05-03 21:16:43
2	6	642	1:24:55.000	3.6625	11.9965	17.1781	60202.0	2023-05-03 21:17:43
2	6	643	1:25:55.000	3.6638	11.9952	17.3780	60934.1	2023-05-03 21:18:43
2	6	644	1:26:55.000	3.6647	11.9965	17.5780	61666.5	2023-05-03 21:19:43
2	6	645	1:27:55.000	3.6659	11.9965	17.7812	62399.1	2023-05-03 21:20:43
2	6	646	1:28:56.000	3.6672	11.9952	17.9779	63144.1	2023-05-03 21:21:43
2	6	647	1:29:55.000	3.6684	11.9965	18.1778	63865.0	2023-05-03 21:22:43
2	6	648	1:30:55.000	3.6697	11.9952	18.3777	64598.3	2023-05-03 21:23:43
2	6	649	1:31:55.000	3.6706	11.9965	18.5810	65331.9	2023-05-03 21:24:43
2	6	650	1:32:56.000	3.6718	11.9965	18.7776	66077.9	2023-05-03 21:25:43
2	6	651	1:33:55.000	3.6731	11.9965	18.9775	66799.7	2023-05-03 21:26:43
2	6	652	1:34:55.000	3.6740	11.9965	19.1808	67534.0	2023-05-03 21:27:43
2	6	653	1:35:56.000	3.6752	11.9965	19.3774	68280.7	2023-05-03 21:28:43
2	6	654	1:36:55.000	3.6765	11.9965	19.5773	69003.1	2023-05-03 21:29:43
2	6	655	1:37:55.000	3.6780	11.9952	19.7773	69738.1	2023-05-03 21:30:43
2	6	656	1:38:55.000	3.6790	11.9952	19.9772	70473.3	2023-05-03 21:31:43
2	6	657	1:39:55.000	3.6790	11.9965	20.1738	71208.7	2023-05-03 21:32:43
2	6	658	1:40:54.000	3.6802	11.9965	20.3737	71932.2	2023-05-03 21:33:43
2	6	659	1:41:54.000	3.6814	11.9952	20.5737	72668.1	2023-05-03 21:34:43
2	6	660	1:42:54.000	3.6827	11.9965	20.7736	73404.3	2023-05-03 21:35:43
2	6	661	1:43:54.000	3.6839	11.9965	20.9735	74140.7	2023-05-03 21:36:43
2	6	662	1:44:54.000	3.6852	11.9965	21.1735	74877.3	2023-05-03 21:37:43
2	6	663	1:45:54.000	3.6864	11.9952	21.3767	75614.2	2023-05-03 21:38:43
2	6	664	1:46:55.000	3.6879	11.9965	21.5733	76363.7	2023-05-03 21:39:43
2	6	665	1:47:54.000	3.6892	11.9952	21.7766	77088.8	2023-05-03 21:40:43
2	6	666	1:48:55.000	3.6904	11.9952	21.9732	77838.8	2023-05-03 21:41:43
2	6	667	1:49:54.000	3.6917	11.9965	22.1731	78564.4	2023-05-03 21:42:43
2	6	668	1:50:54.000	3.6929	11.9965	22.3731	79302.7	2023-05-03 21:43:43
2	6	669	1:51:54.000	3.6945	11.9965	22.5730	80041.1	2023-05-03 21:44:43
2	6	670	1:52:54.000	3.6957	11.9965	22.7729	80779.9	2023-05-03 21:45:43
2	6	671	1:53:54.000	3.6969	11.9965	22.9729	81518.9	2023-05-03 21:46:43
2	6	672	1:54:54.000	3.6985	11.9952	23.1728	82258.2	2023-05-03 21:47:43
2	6	673	1:55:54.000	3.7000	11.9952	23.3728	82997.8	2023-05-03 21:48:43
2	6	674	1:56:55.000	3.7013	11.9952	23.5761	83750.0	2023-05-03 21:49:43
2	6	674	1:57:54.000	3.7028	11.9965	23.7727	84477.9	

2		675		3.7044		23.7726		2023-05-03 21:50:43
2	6	676	1:58:54.000	3.7056	11.9965	23.9725	85218.3	2023-05-03 21:51:43
2	6	677	1:59:54.000	3.7072	11.9952	24.1725	85959.0	2023-05-03 21:52:43
2	6	678	2:00:54.000	3.7090	11.9965	24.3724	86700.0	2023-05-03 21:53:43
2	6	679	2:01:54.000	3.7103	11.9952	24.5724	87441.4	2023-05-03 21:54:43
2	6	680	2:02:54.000	3.7118	11.9965	24.7723	88183.1	2023-05-03 21:55:43
2	6	681	2:03:54.000	3.7137	11.9965	24.9722	88925.1	2023-05-03 21:56:43
2	6	682	2:04:54.000	3.7152	11.9965	25.1722	89667.4	2023-05-03 21:57:43
2	6	683	2:05:54.000	3.7168	11.9965	25.3721	90410.0	2023-05-03 21:58:43
2	6	684	2:06:54.000	3.7183	11.9965	25.5720	91153.0	2023-05-03 21:59:43
2	6	685	2:07:54.000	3.7205	11.9952	25.7720	91896.3	2023-05-03 22:00:43
2	6	686	2:08:54.000	3.7220	11.9965	25.9719	92640.0	2023-05-03 22:01:43
2	6	687	2:09:54.000	3.7239	11.9965	26.1752	93384.0	2023-05-03 22:02:43
2	6	688	2:10:55.000	3.7258	11.9965	26.3718	94140.7	2023-05-03 22:03:43
2	6	689	2:11:54.000	3.7276	11.9952	26.5717	94873.1	2023-05-03 22:04:43
2	6	690	2:12:54.000	3.7298	11.9965	26.7750	95618.1	2023-05-03 22:05:43
2	6	691	2:13:55.000	3.7317	11.9965	26.9716	96376.0	2023-05-03 22:06:43
2	6	692	2:14:54.000	3.7335	11.9965	27.1715	97109.5	2023-05-03 22:07:43
2	6	693	2:15:54.000	3.7354	11.9965	27.3715	97855.8	2023-05-03 22:08:43
2	6	694	2:16:54.000	3.7375	11.9965	27.5714	98602.5	2023-05-03 22:09:43
2	6	695	2:17:54.000	3.7400	11.9965	27.7714	99349.5	2023-05-03 22:10:43
2	6	696	2:18:54.000	3.7419	11.9965	27.9713	100097.0	2023-05-03 22:11:43
2	6	697	2:19:54.000	3.7444	11.9952	28.1712	100845.0	2023-05-03 22:12:43
2	6	698	2:20:54.000	3.7462	11.9952	28.3712	101593.3	2023-05-03 22:13:43
2	6	699	2:21:54.000	3.7484	11.9952	28.5744	102342.1	2023-05-03 22:14:43
2	6	700	2:22:55.000	3.7512	11.9965	28.7710	103103.8	2023-05-03 22:15:43
2	6	701	2:23:54.000	3.7537	11.9965	28.9743	103841.1	2023-05-03 22:16:43
2	6	702	2:24:55.000	3.7558	11.9965	29.1709	104603.8	2023-05-03 22:17:43
2	6	703	2:25:54.000	3.7583	11.9965	29.3709	105342.0	2023-05-03 22:18:43
2	6	704	2:26:54.000	3.7611	11.9965	29.5708	106093.2	2023-05-03 22:19:43
2	6	705	2:27:54.000	3.7636	11.9952	29.7707	106844.9	2023-05-03 22:20:43
2	6	706	2:28:54.000	3.7661	11.9965	29.9707	107597.1	2023-05-03 22:21:43
2	6	707	2:29:54.000	3.7689	11.9965	30.1706	108349.8	2023-05-03 22:22:43
2	6	708	2:30:54.000	3.7717	11.9952	30.3705	109103.1	2023-05-03 22:23:43
2	6	709	2:31:54.000	3.7744	11.9965	30.5705	109856.9	2023-05-03 22:24:43
2	6	710	2:32:54.000	3.7772	11.9952	30.7704	110611.2	2023-05-03 22:25:43
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2		711		3.7803		30.9703		2023-05-03 22:26:43
2	6	712	2:34:54.000	3.7834	11.9952	31.1703	112121.6	2023-05-03 22:27:43
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2	6	714	2:36:54.000	3.7896	11.9965	31.5701	113634.5	2023-05-03 22:29:43
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2	6	718	2:40:54.000	3.8002	11.9965	32.3625	116667.8	2023-05-03 22:33:43
2	6	719	2:41:55.000	3.8002	10.4253	32.5221	117399.6	2023-05-03 22:34:43
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2	6	722	2:44:55.000	3.8002	7.1465	32.9043	119037.6	2023-05-03 22:37:43
2	6	723	2:45:54.000	3.8002	6.3355	33.0048	119458.3	2023-05-03 22:38:43
2	6	724	2:46:54.000	3.8002	5.7142	33.0945	119840.5	2023-05-03 22:39:43
2	6	725	2:47:54.000	3.8002	5.0942	33.1747	120181.3	2023-05-03 22:40:43
2	6	726	2:48:54.000	3.8002	4.5721	33.2464	120486.2	2023-05-03 22:41:43
2	6	727	2:49:54.000	3.8002	4.0538	33.3114	120758.6	2023-05-03 22:42:43
2	6	728	2:50:55.000	3.8002	3.6185	33.3676	121005.6	2023-05-03 22:43:43
2	6	729	2:51:54.000	3.8002	3.2564	33.4188	121219.2	2023-05-03 22:44:43
2	6	730	2:52:54.000	3.8002	2.8980	33.4646	121413.8	2023-05-03 22:45:43
2	6	731	2:53:54.000	3.8002	2.5694	33.5056	121587.6	2023-05-03 22:46:43
2	6	732	2:54:54.000	3.8002	2.3301	33.5423	121743.5	2023-05-03 22:47:43
2	6	733	2:55:54.000	3.8002	2.0659	33.5751	121882.9	2023-05-03 22:48:43
2	6	734	2:56:54.000	3.8002	1.8948	33.6047	122007.7	2023-05-03 22:49:43
2	6	735	2:57:54.000	3.8002	1.6579	33.6313	122120.2	2023-05-03 22:50:43
2	6	736	2:58:54.000	3.8002	1.4930	33.6553	122221.2	2023-05-03 22:51:43
2	6	737	2:59:54.000	3.8002	1.3529	33.6767	122312.6	2023-05-03 22:52:43
2	6	738	3:00:54.000	3.8002	1.2251	33.6961	122393.6	2023-05-03 22:53:43
2	6	739	3:01:54.000	3.8002	1.0825	33.7134	122467.4	2023-05-03 22:54:43
2	6	740	3:02:54.000	3.8002	0.9957	33.7291	122533.3	2023-05-03 22:55:43
2	6	741	3:03:54.000	3.8002	0.8717	33.7434	122593.0	2023-05-03 22:56:43
2	6	742	3:04:54.000	3.8002	0.7998	33.7563	122647.1	2023-05-03 22:57:43
2	6	743	3:05:54.000	3.8002	0.7341	33.7563	122696.2	2023-05-03 22:58:43
2	6	744	3:06:54.000	3.8002	0.6907	33.7681	122741.1	2023-05-03 22:59:43
2	6	745	3:07:54.000	3.8002	0.6200	33.7788	122781.7	2023-05-03 23:00:43
2	6	746	3:08:53.000	3.8002	0.5431	33.7883	122818.0	2023-05-03 23:01:43
2	6	746	3:09:53.000	3.8002	0.4997	33.7971	122851.4	2023-05-03 23:01:43

2		747			3.8002			33.8053		2023-05-03 23:02:43
2	6	748	3:10:54.000		3.8002	0.4885		33.8127	122882.5	2023-05-03 23:03:43
2	6	749	3:11:53.000		3.8002	0.4154		33.8196	122910.5	2023-05-03 23:04:43
2	6	750	3:12:53.000		3.8002	0.3819		33.8260	122936.7	2023-05-03 23:05:43
2	6	751	3:13:54.000		3.8002	0.3769		33.8318	122961.1	2023-05-03 23:06:43
2	6	752	3:14:53.000		3.8002	0.3410		33.8371	122983.2	2023-05-03 23:07:43
2	6	753	3:15:53.000		3.8002	0.3112		33.8420	123003.4	2023-05-03 23:08:43
2	6	754	3:16:53.000		3.8002	0.2963		33.8467	123021.8	2023-05-03 23:09:43
2	6	755	3:17:53.000		3.8002	0.2579		33.8511	123039.8	2023-05-03 23:10:43
2	6	756	3:18:54.000		3.8002	0.2529		33.8542	123056.3	2023-05-03 23:11:31
2	6		3:19:42.000			0.1909			123068.3	

Curver

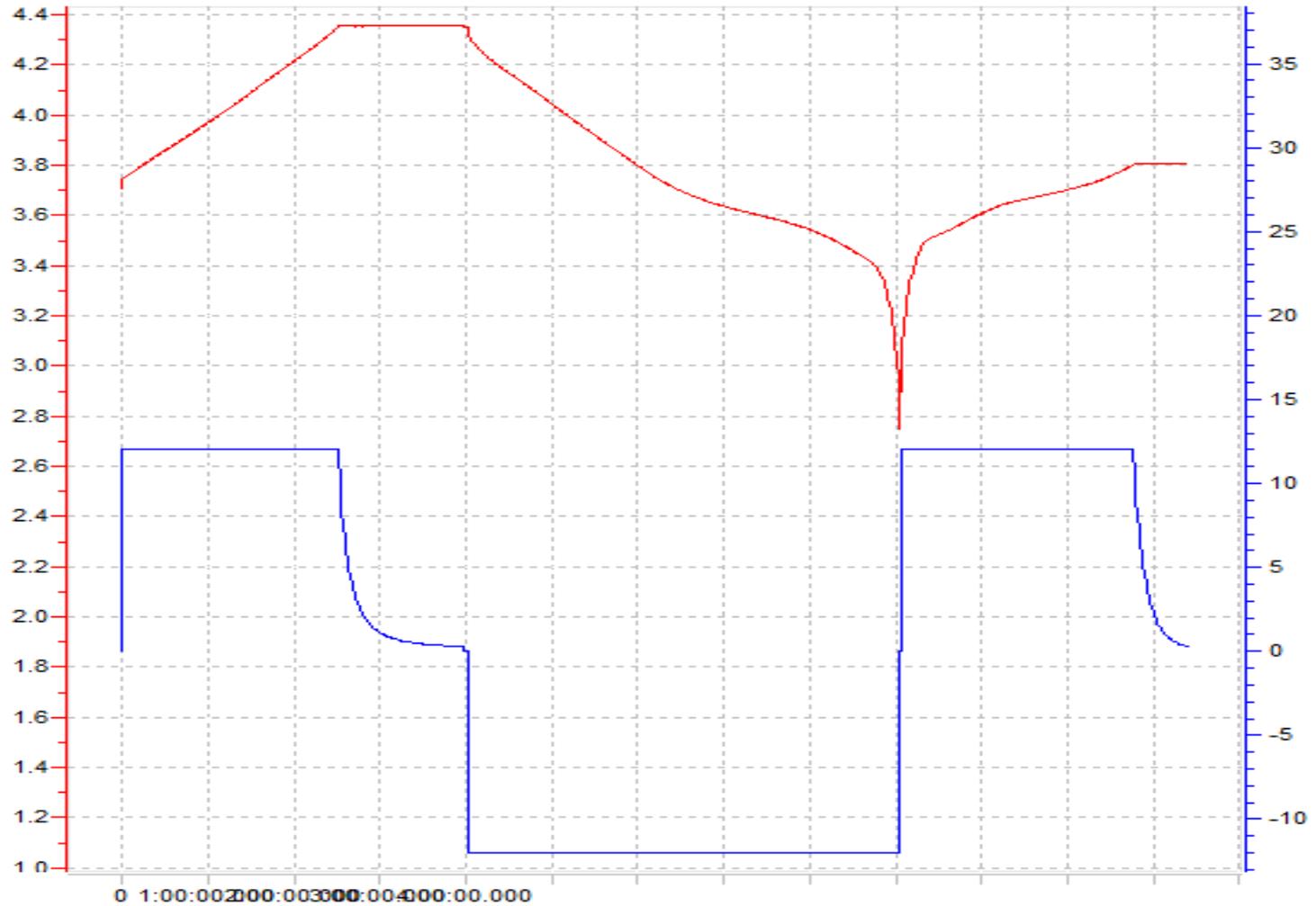
Time--Voltage&&Current

Y2:Voltage(V)

Y3:Current(A)

Y2

Y3



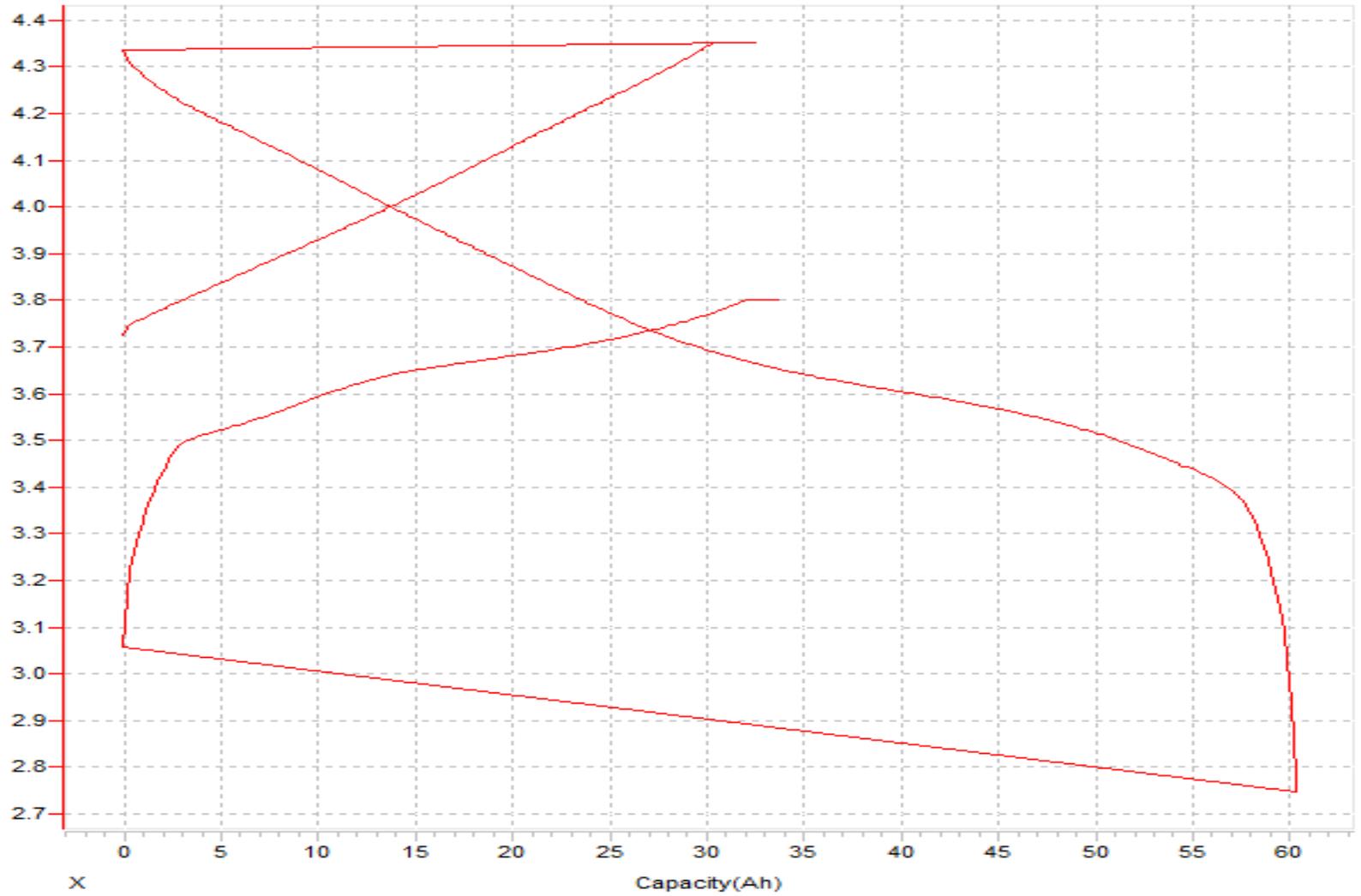
X

Time(h:min:s.ms)

Capacity--Voltage

Y2: Voltage(V)

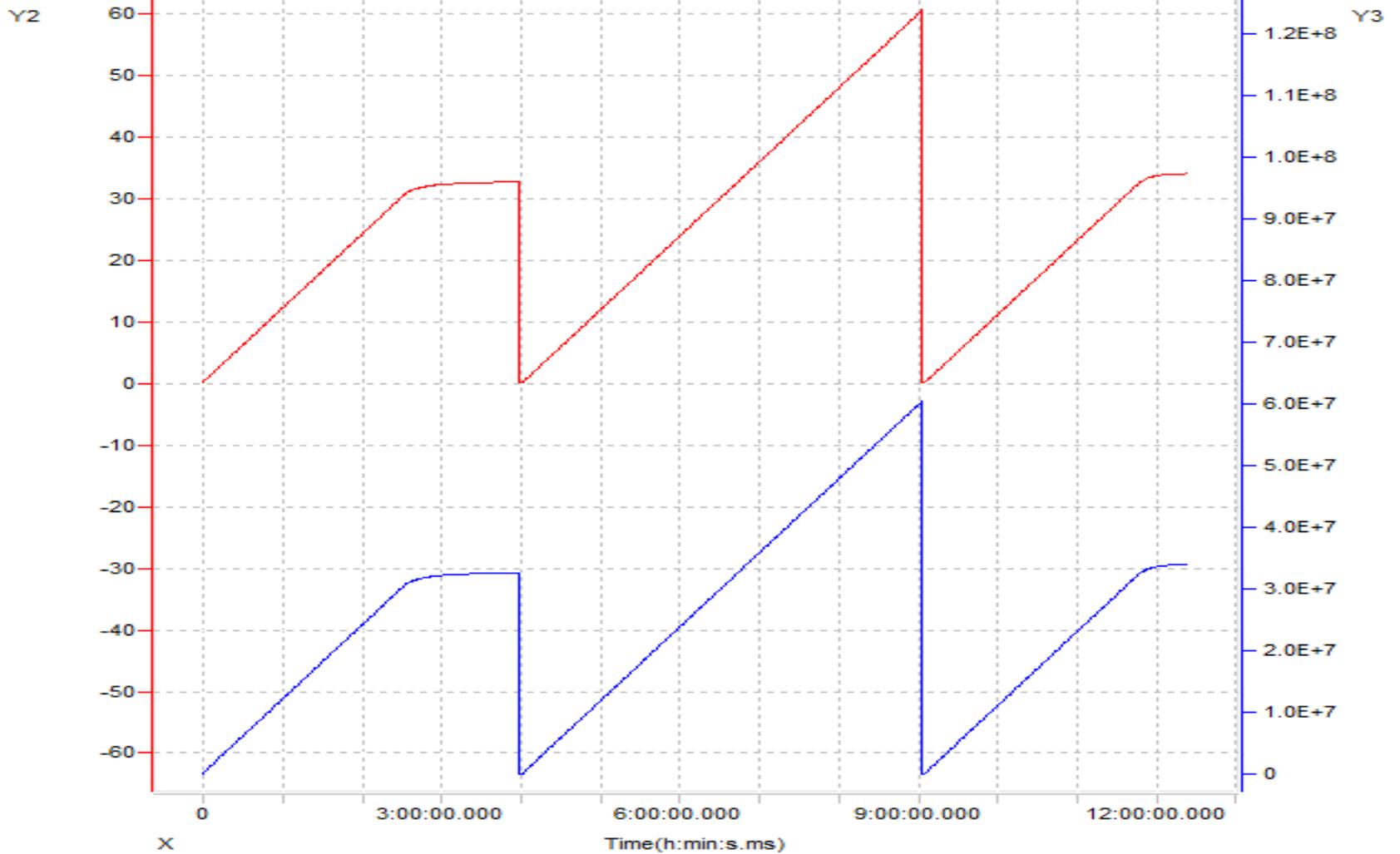
Y2



Time--Capacity&&Capacity Density

Y2:Capacity(Ah)

Y3:Capacity Density(Ah/kg)



Cycle ID--Cap_Chg&&Cap_DChg&&Specific Capacity-Chg&&Specific Capacity-Dchg

Y2:Cap_DChg(Ah)
Y1:Cap_Chg(Ah)

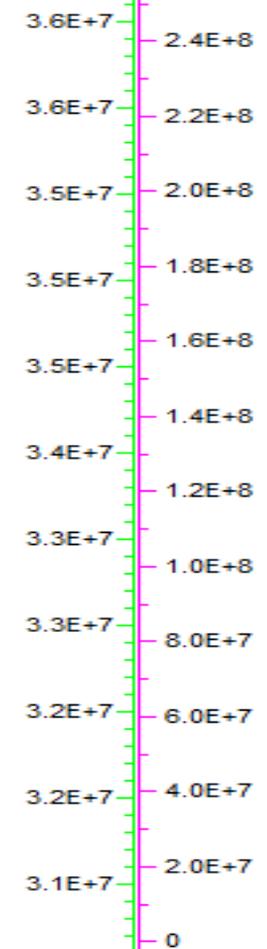
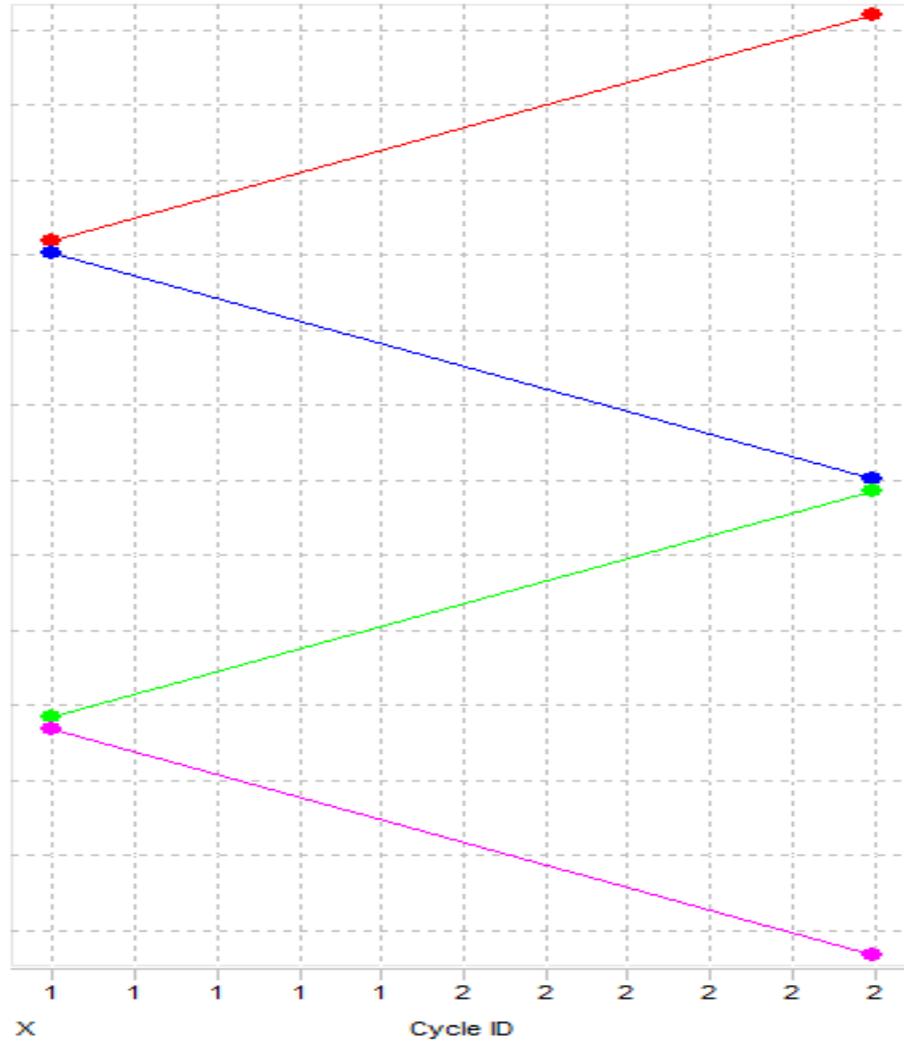
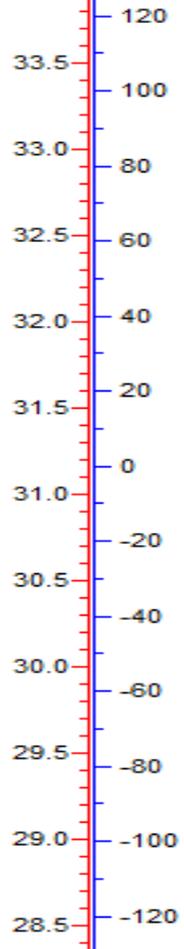
Y4:Specific Capacity-Dchg(Ah)
Y3:Specific Capacity-Chg(Ah)

Y1

Y2

Y3

Y4



X

Cycle ID

Cycle ID--Chg/DChg Efficiency

Y2:Chg/DChg Efficiency

Y2

100
95
90
85
80
75
70
65
60
55

X

Cycle ID

1 1 1 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2 2 2 2

