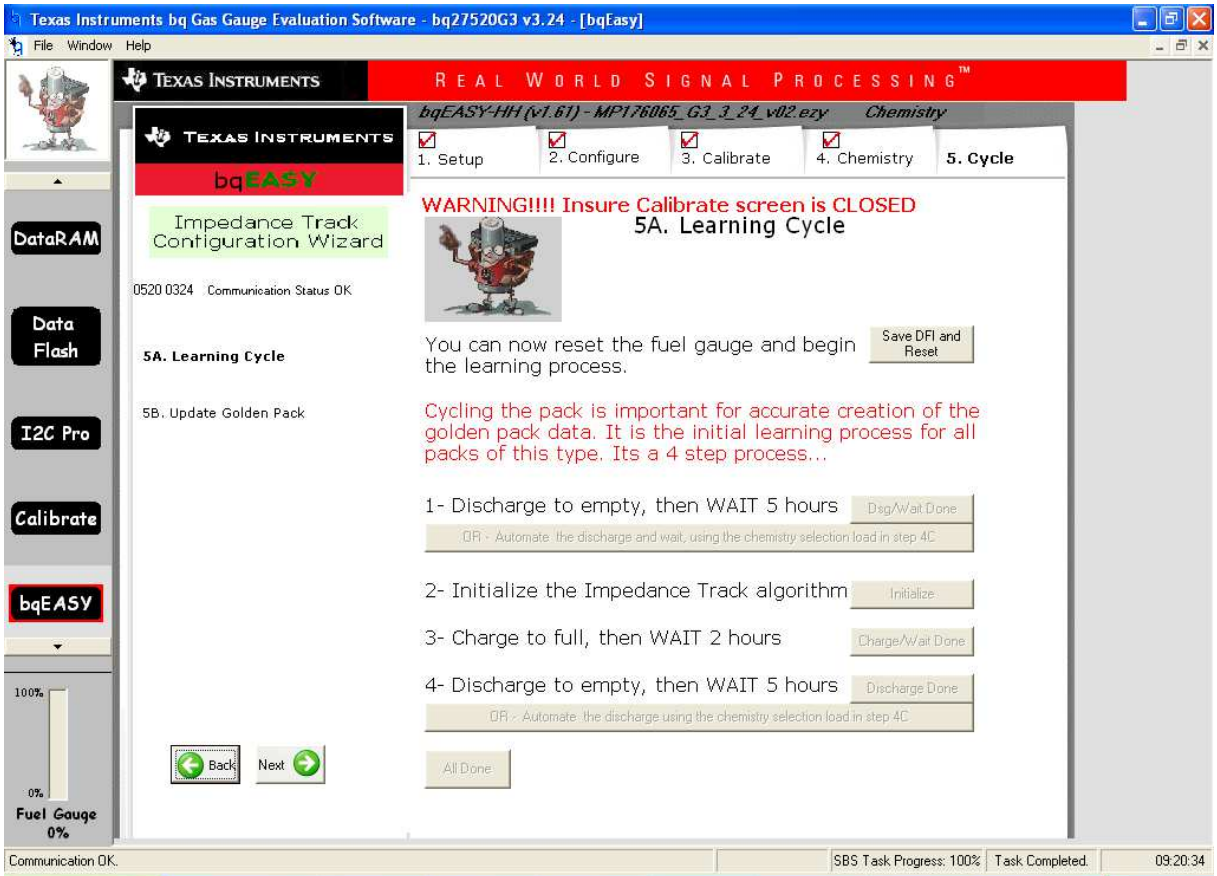
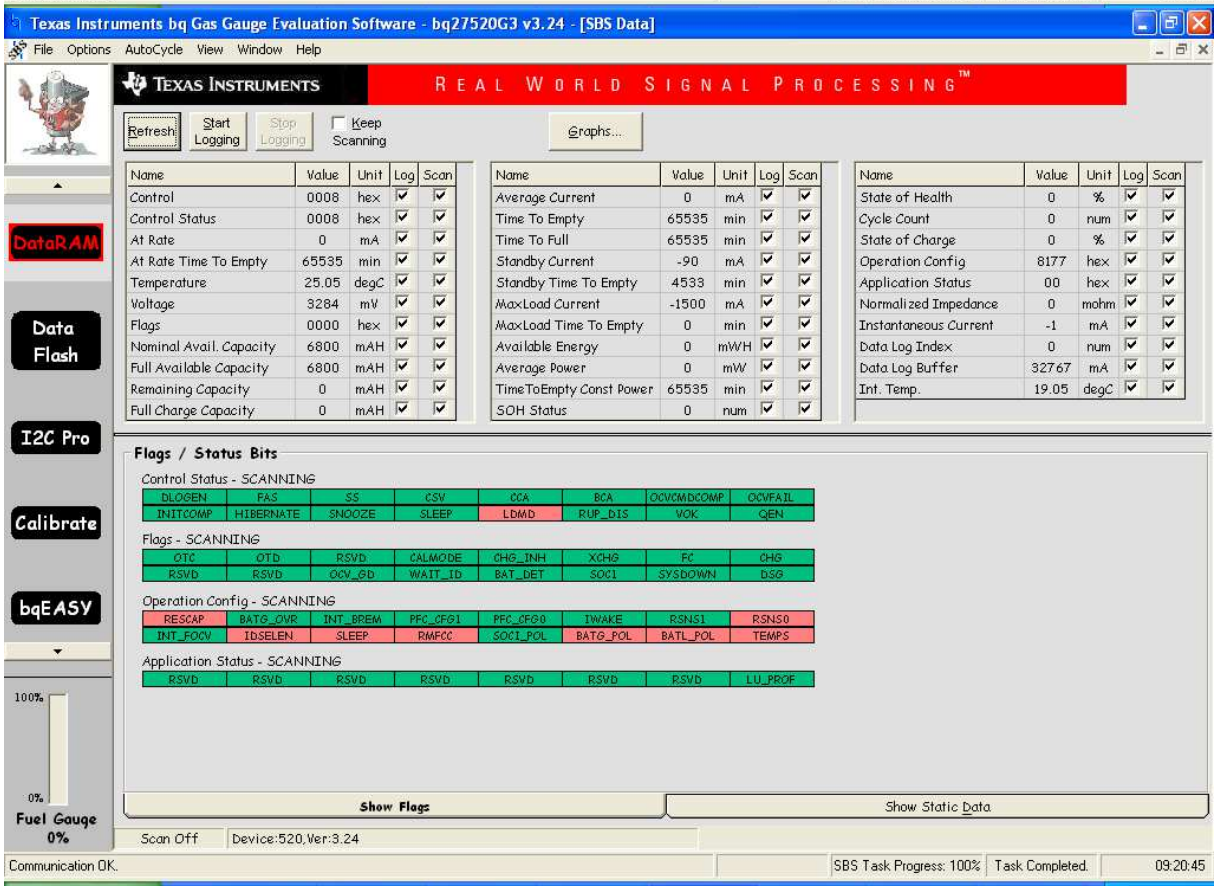
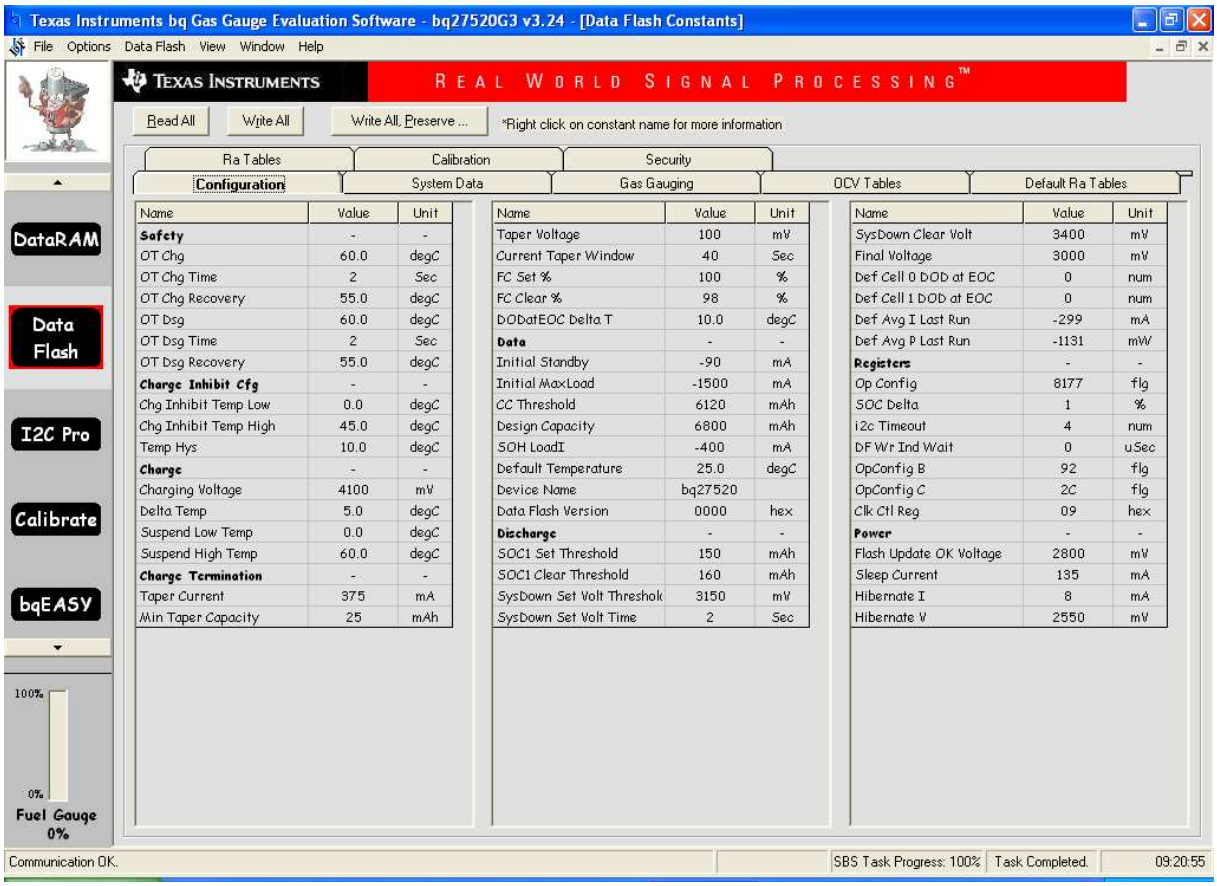
After update firmware from G4 to G3, configure and calibrate, before click « Save DFI and Reset ».
Export to MP176065_G3_0_firmware_update_bat3.gg .



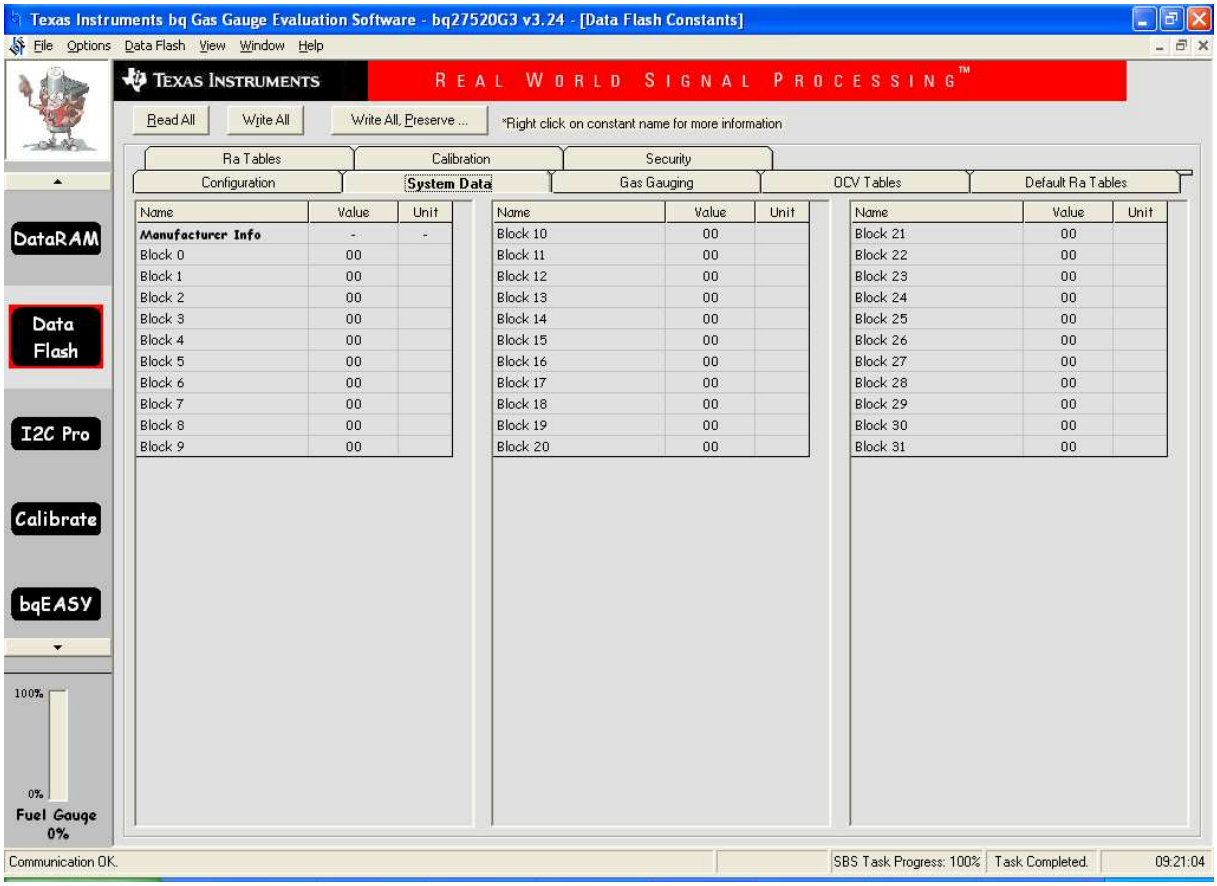




Name	Value	Unit
Safety	-	-
OT Chg	60.0	degC
OT Chg Time	2	Sec
OT Chg Recovery	55.0	degC
OT Dsg	60.0	degC
OT Dsg Time	2	Sec
OT Dsg Recovery	55.0	degC
Charge Inhibit Cfg	-	-
Chg Inhibit Temp Low	0.0	degC
Chg Inhibit Temp High	45.0	degC
Temp Hys	10.0	degC
Charge	-	-
Charging Voltage	4100	mV
Delta Temp	5.0	degC
Suspend Low Temp	0.0	degC
Suspend High Temp	60.0	degC
Charge Termination	-	-
Taper Current	375	mA
Min Taper Capacity	25	mAh

Name	Value	Unit
Taper Voltage	100	mV
Current Taper Window	40	Sec
FC Set %	100	%
FC Clear %	98	%
DODatEOC Delta T	10.0	degC
Data	-	-
Initial Standby	-90	mA
Initial MaxLoad	-1500	mA
CC Threshold	6120	mAh
Design Capacity	6800	mAh
SOH LoadI	-400	mA
Default Temperature	25.0	degC
Device Name	bq27520	
Data Flash Version	0000	hex
Discharge	-	-
SOC1 Set Threshold	150	mAh
SOC1 Clear Threshold	160	mAh
SysDown Set Volt Threshold	3150	mV
SysDown Set Volt Time	2	Sec

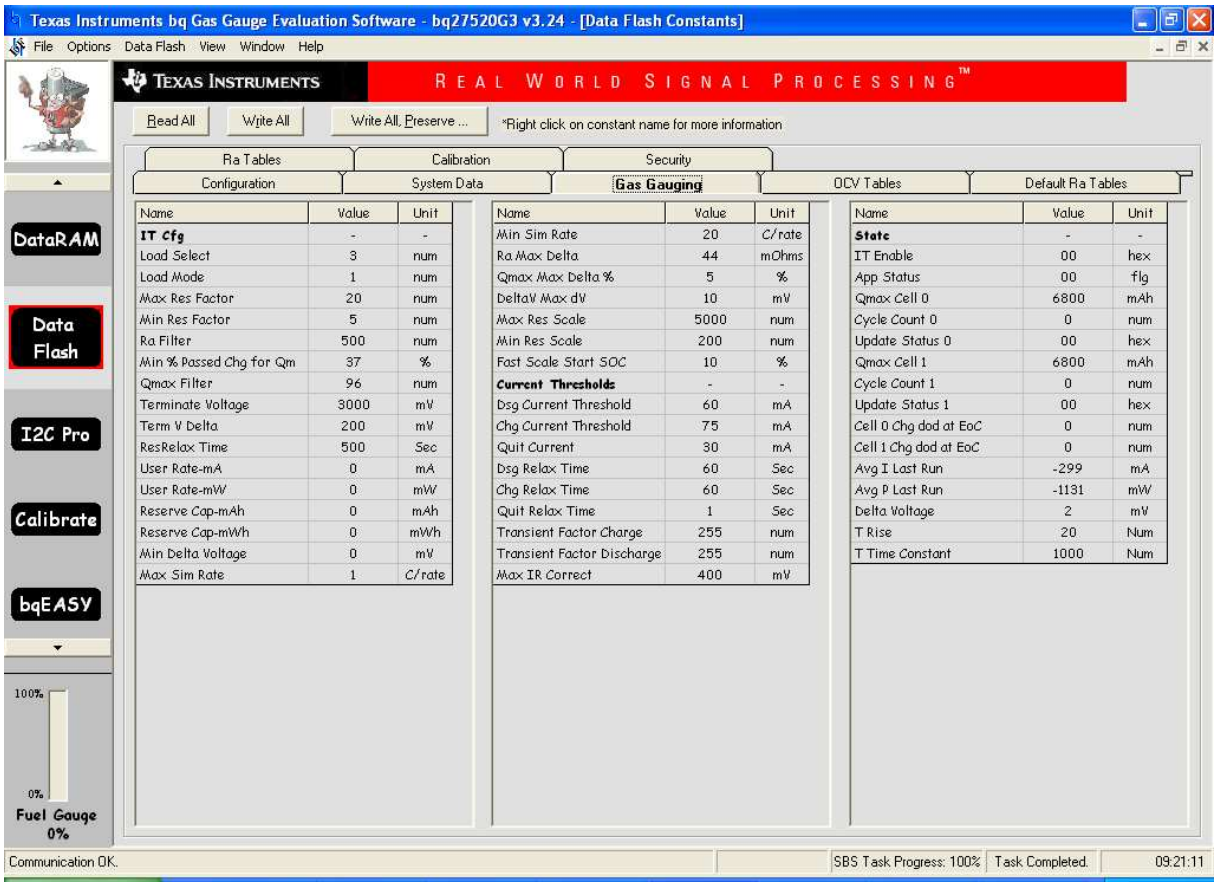
Name	Value	Unit
SysDown Clear Volt	3400	mV
Final Voltage	3000	mV
Def Cell 0 DOD at EOC	0	num
Def Cell 1 DOD at EOC	0	num
Def Avg I Last Run	-299	mA
Def Avg P Last Run	-1131	mW
Registers	-	-
Op Config	8177	flg
SOC Delta	1	%
i2c Timeout	4	num
DF Wr Ind Wait	0	uSec
OpConfig B	92	flg
OpConfig C	2C	flg
Clk Ctl Reg	09	hex
Power	-	-
Flash Update OK Voltage	2800	mV
Sleep Current	135	mA
Hibernate I	8	mA
Hibernate V	2550	mV



Name	Value	Unit
Manufacturer Info	-	-
Block 0	00	
Block 1	00	
Block 2	00	
Block 3	00	
Block 4	00	
Block 5	00	
Block 6	00	
Block 7	00	
Block 8	00	
Block 9	00	

Name	Value	Unit
Block 10	00	
Block 11	00	
Block 12	00	
Block 13	00	
Block 14	00	
Block 15	00	
Block 16	00	
Block 17	00	
Block 18	00	
Block 19	00	
Block 20	00	

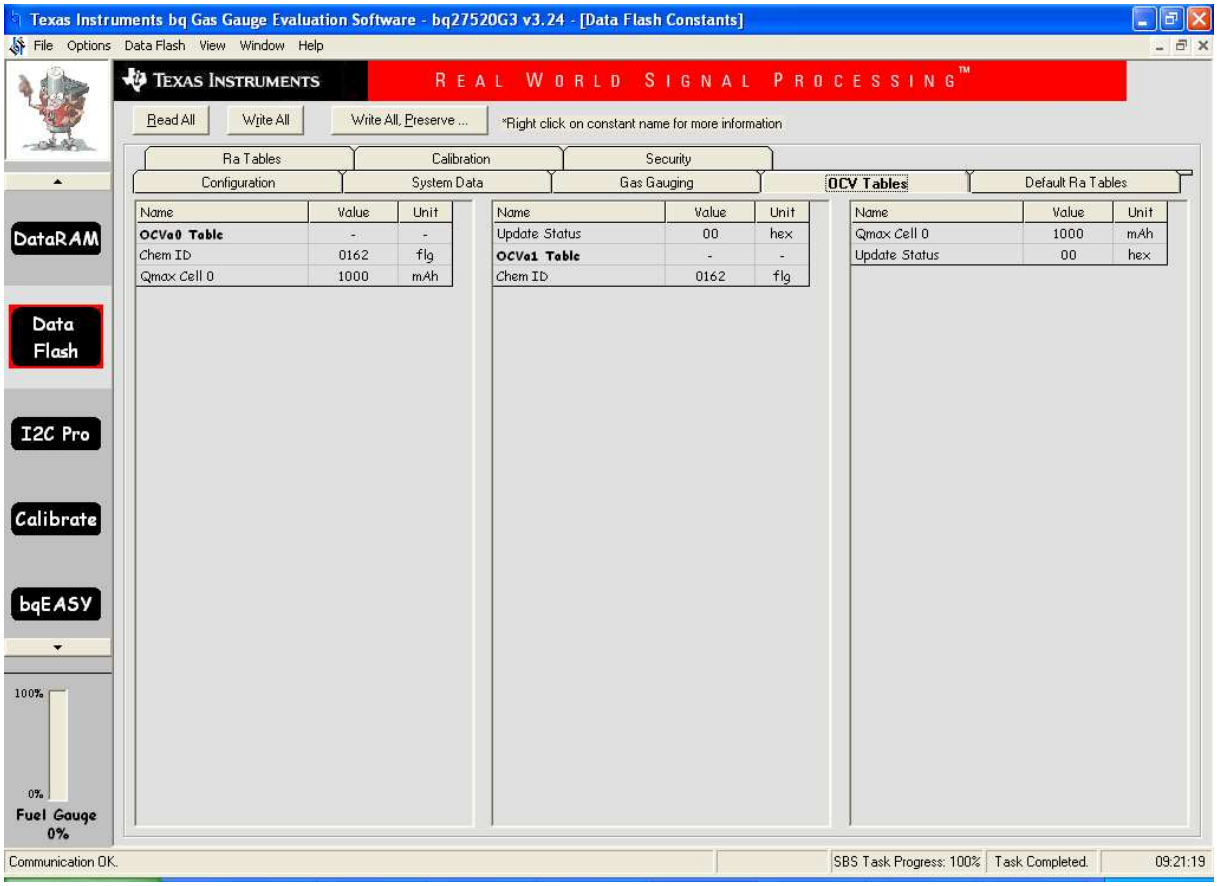
Name	Value	Unit
Block 21	00	
Block 22	00	
Block 23	00	
Block 24	00	
Block 25	00	
Block 26	00	
Block 27	00	
Block 28	00	
Block 29	00	
Block 30	00	
Block 31	00	



Name	Value	Unit
IT Cfg	-	-
Load Select	3	num
Load Mode	1	num
Max Res Factor	20	num
Min Res Factor	5	num
Ra Filter	500	num
Min % Passed Chg for Qm	37	%
Qmax Filter	96	num
Terminate Voltage	3000	mV
Term V Delta	200	mV
ResRelax Time	500	Sec
User Rate-mA	0	mA
User Rate-mW	0	mW
Reserve Cap-mAh	0	mAh
Reserve Cap-mWh	0	mWh
Min Delta Voltage	0	mV
Max Sim Rate	1	C/rate

Name	Value	Unit
Min Sim Rate	20	C/rate
Ra Max Delta	44	mOhms
Qmax Max Delta %	5	%
DeltaV Max dV	10	mV
Max Res Scale	5000	num
Min Res Scale	200	num
Fast Scale Start SOC	10	%
Current Thresholds	-	-
Dsg Current Threshold	60	mA
Chg Current Threshold	75	mA
Quit Current	30	mA
Dsg Relax Time	60	Sec
Chg Relax Time	60	Sec
Quit Relax Time	1	Sec
Transient Factor Charge	255	num
Transient Factor Discharge	255	num
Max IR Correct	400	mV

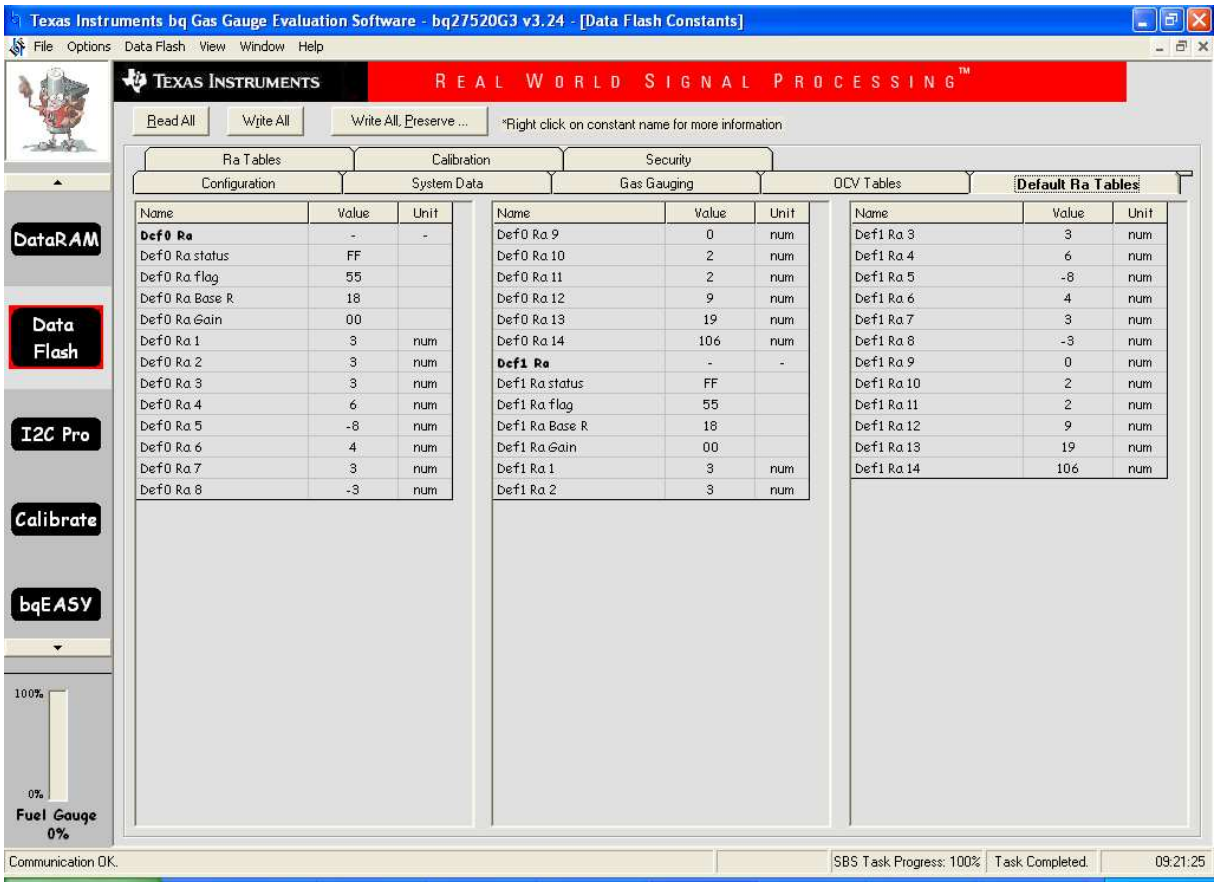
Name	Value	Unit
State	-	-
IT Enable	00	hex
App Status	00	flg
Qmax Cell 0	6800	mAh
Cycle Count 0	0	num
Update Status 0	00	hex
Qmax Cell 1	6800	mAh
Cycle Count 1	0	num
Update Status 1	00	hex
Cell 0 Chg dod at EoC	0	num
Cell 1 Chg dod at EoC	0	num
Avg I Last Run	-299	mA
Avg P Last Run	-1131	mW
Delta Voltage	2	mV
T Rise	20	Num
T Time Constant	1000	Num



Name	Value	Unit
OCVa0 Table	-	-
Chem ID	0162	flg
Qmax Cell 0	1000	mAh

Name	Value	Unit
Update Status	00	hex
OCVa1 Table	-	-
Chem ID	0162	flg

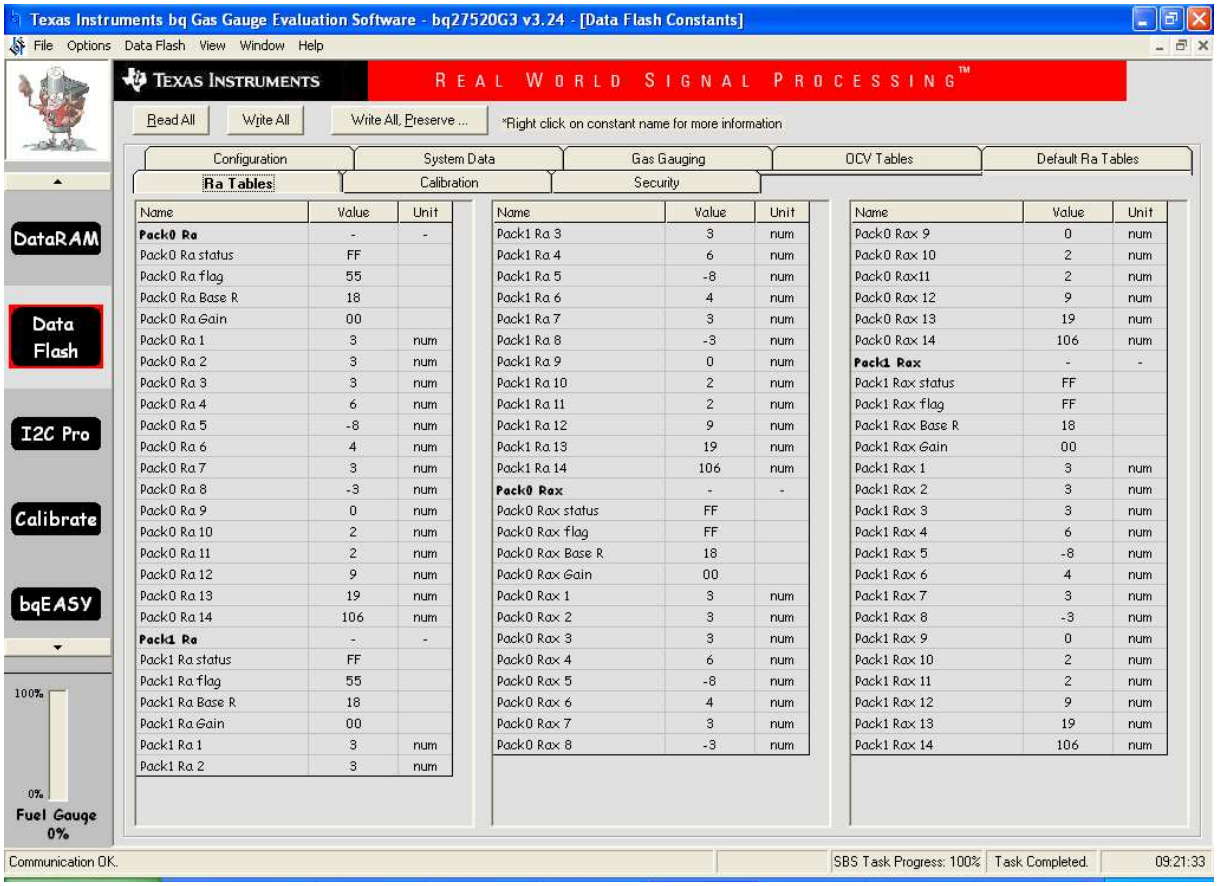
Name	Value	Unit
Qmax Cell 0	1000	mAh
Update Status	00	hex



Name	Value	Unit
Def0 Ra	-	-
Def0 Ra status	FF	
Def0 Ra flag	55	
Def0 Ra Base R	18	
Def0 Ra Gain	00	
Def0 Ra 1	3	num
Def0 Ra 2	3	num
Def0 Ra 3	3	num
Def0 Ra 4	6	num
Def0 Ra 5	-8	num
Def0 Ra 6	4	num
Def0 Ra 7	3	num
Def0 Ra 8	-3	num

Name	Value	Unit
Def0 Ra 9	0	num
Def0 Ra 10	2	num
Def0 Ra 11	2	num
Def0 Ra 12	9	num
Def0 Ra 13	19	num
Def0 Ra 14	106	num
Def1 Ra	-	-
Def1 Ra status	FF	
Def1 Ra flag	55	
Def1 Ra Base R	18	
Def1 Ra Gain	00	
Def1 Ra 1	3	num
Def1 Ra 2	3	num

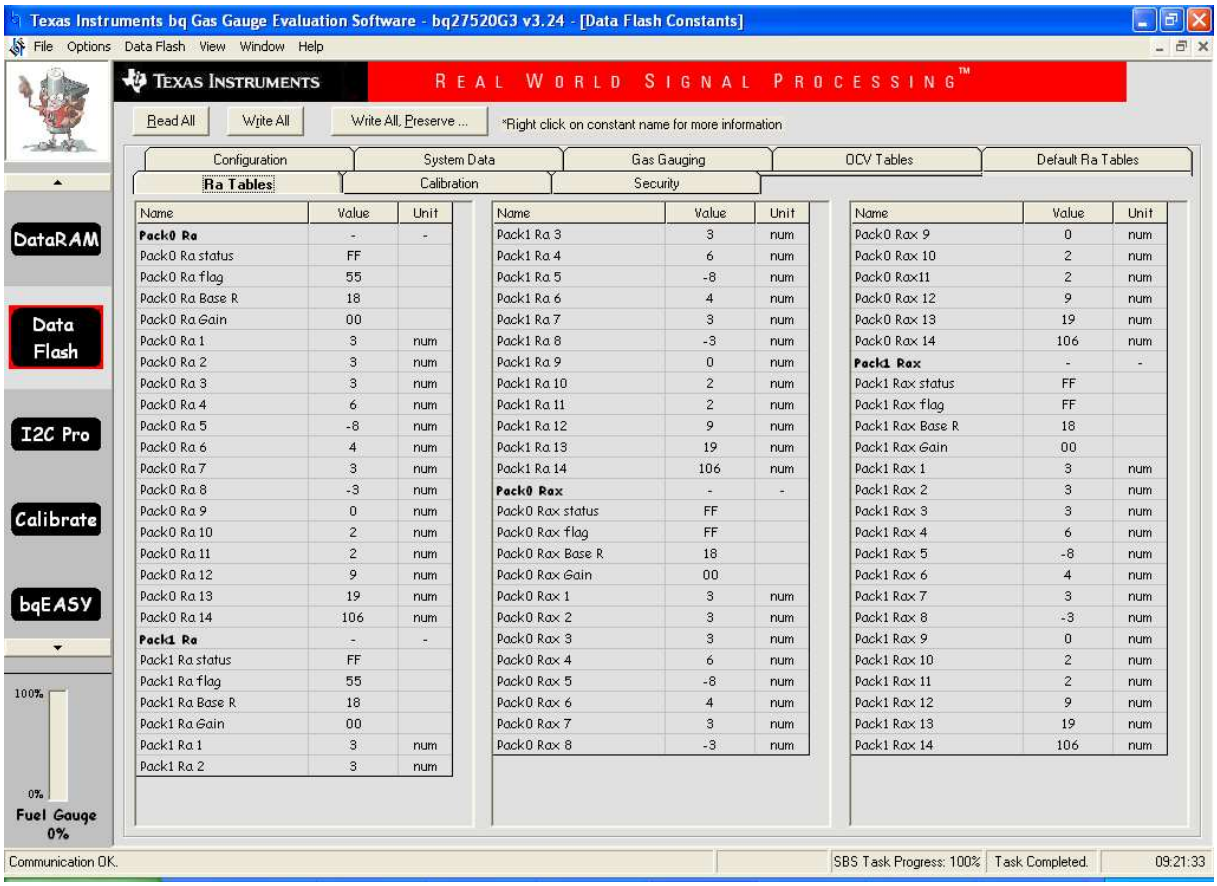
Name	Value	Unit
Def1 Ra 3	3	num
Def1 Ra 4	6	num
Def1 Ra 5	-8	num
Def1 Ra 6	4	num
Def1 Ra 7	3	num
Def1 Ra 8	-3	num
Def1 Ra 9	0	num
Def1 Ra 10	2	num
Def1 Ra 11	2	num
Def1 Ra 12	9	num
Def1 Ra 13	19	num
Def1 Ra 14	106	num



Name	Value	Unit
Pack0 Ra	-	-
Pack0 Ra status	FF	
Pack0 Ra flag	55	
Pack0 Ra Base R	18	
Pack0 Ra Gain	00	
Pack0 Ra 1	3	num
Pack0 Ra 2	3	num
Pack0 Ra 3	3	num
Pack0 Ra 4	6	num
Pack0 Ra 5	-8	num
Pack0 Ra 6	4	num
Pack0 Ra 7	3	num
Pack0 Ra 8	-3	num
Pack0 Ra 9	0	num
Pack0 Ra 10	2	num
Pack0 Ra 11	2	num
Pack0 Ra 12	9	num
Pack0 Ra 13	19	num
Pack0 Ra 14	106	num
Pack1 Ra	-	-
Pack1 Ra status	FF	
Pack1 Ra flag	55	
Pack1 Ra Base R	18	
Pack1 Ra Gain	00	
Pack1 Ra 1	3	num
Pack1 Ra 2	3	num

Name	Value	Unit
Pack1 Ra 3	3	num
Pack1 Ra 4	6	num
Pack1 Ra 5	-8	num
Pack1 Ra 6	4	num
Pack1 Ra 7	3	num
Pack1 Ra 8	-3	num
Pack1 Ra 9	0	num
Pack1 Ra 10	2	num
Pack1 Ra 11	2	num
Pack1 Ra 12	9	num
Pack1 Ra 13	19	num
Pack1 Ra 14	106	num
Pack0 Rax	-	-
Pack0 Rax status	FF	
Pack0 Rax flag	FF	
Pack0 Rax Base R	18	
Pack0 Rax Gain	00	
Pack0 Rax 1	3	num
Pack0 Rax 2	3	num
Pack0 Rax 3	3	num
Pack0 Rax 4	6	num
Pack0 Rax 5	-8	num
Pack0 Rax 6	4	num
Pack0 Rax 7	3	num
Pack0 Rax 8	-3	num

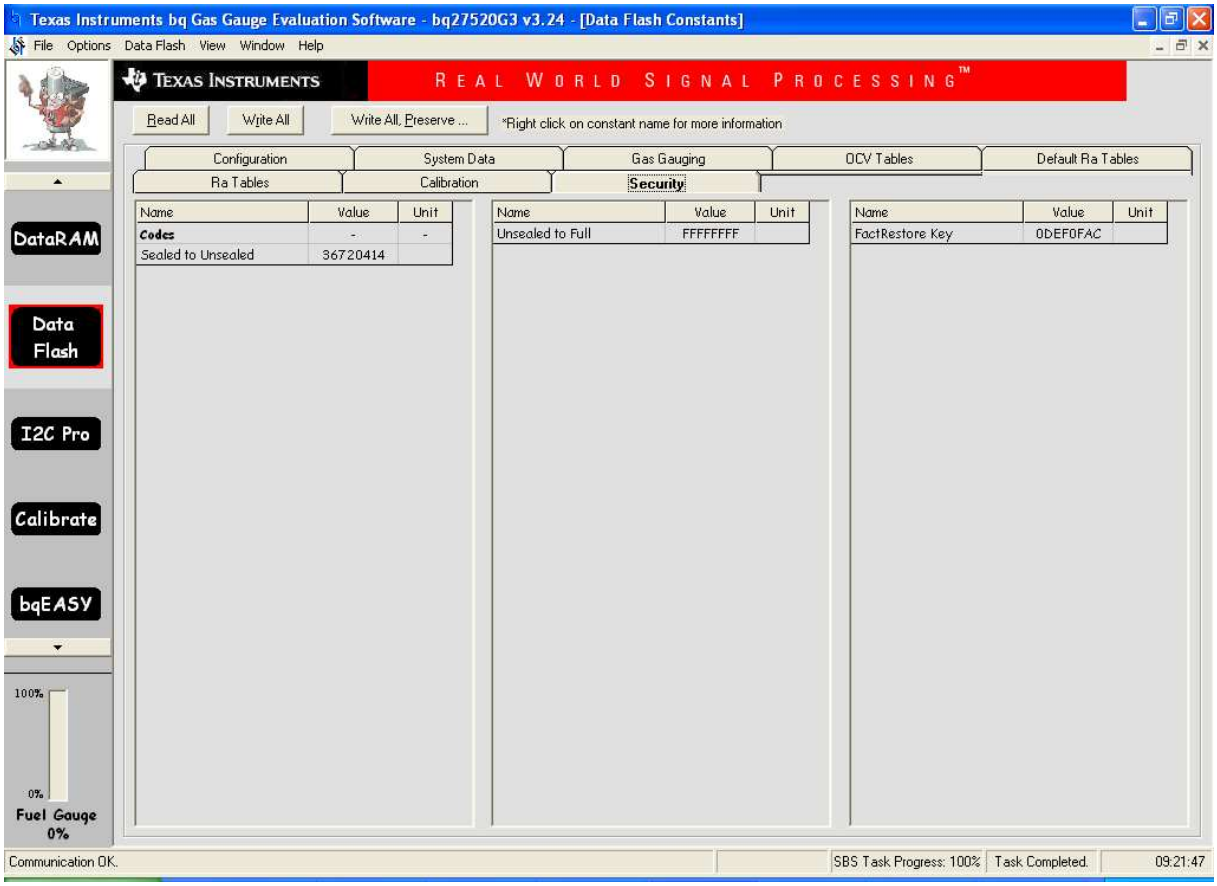
Name	Value	Unit
Pack0 Rax 9	0	num
Pack0 Rax 10	2	num
Pack0 Rax11	2	num
Pack0 Rax 12	9	num
Pack0 Rax 13	19	num
Pack0 Rax 14	106	num
Pack1 Rax	-	-
Pack1 Rax status	FF	
Pack1 Rax flag	FF	
Pack1 Rax Base R	18	
Pack1 Rax Gain	00	
Pack1 Rax 1	3	num
Pack1 Rax 2	3	num
Pack1 Rax 3	3	num
Pack1 Rax 4	6	num
Pack1 Rax 5	-8	num
Pack1 Rax 6	4	num
Pack1 Rax 7	3	num
Pack1 Rax 8	-3	num
Pack1 Rax 9	0	num
Pack1 Rax 10	2	num
Pack1 Rax 11	2	num
Pack1 Rax 12	9	num
Pack1 Rax 13	19	num
Pack1 Rax 14	106	num



Name	Value	Unit
Pack0 Ra	-	-
Pack0 Ra status	FF	
Pack0 Ra flag	55	
Pack0 Ra Base R	18	
Pack0 Ra Gain	00	
Pack0 Ra 1	3	num
Pack0 Ra 2	3	num
Pack0 Ra 3	3	num
Pack0 Ra 4	6	num
Pack0 Ra 5	-8	num
Pack0 Ra 6	4	num
Pack0 Ra 7	3	num
Pack0 Ra 8	-3	num
Pack0 Ra 9	0	num
Pack0 Ra 10	2	num
Pack0 Ra 11	2	num
Pack0 Ra 12	9	num
Pack0 Ra 13	19	num
Pack0 Ra 14	106	num
Pack1 Ra	-	-
Pack1 Ra status	FF	
Pack1 Ra flag	55	
Pack1 Ra Base R	18	
Pack1 Ra Gain	00	
Pack1 Ra 1	3	num
Pack1 Ra 2	3	num

Name	Value	Unit
Pack1 Ra 3	3	num
Pack1 Ra 4	6	num
Pack1 Ra 5	-8	num
Pack1 Ra 6	4	num
Pack1 Ra 7	3	num
Pack1 Ra 8	-3	num
Pack1 Ra 9	0	num
Pack1 Ra 10	2	num
Pack1 Ra 11	2	num
Pack1 Ra 12	9	num
Pack1 Ra 13	19	num
Pack1 Ra 14	106	num
Pack0 Rax	-	-
Pack0 Rax status	FF	
Pack0 Rax flag	FF	
Pack0 Rax Base R	18	
Pack0 Rax Gain	00	
Pack0 Rax 1	3	num
Pack0 Rax 2	3	num
Pack0 Rax 3	3	num
Pack0 Rax 4	6	num
Pack0 Rax 5	-8	num
Pack0 Rax 6	4	num
Pack0 Rax 7	3	num
Pack0 Rax 8	-3	num

Name	Value	Unit
Pack0 Rax 9	0	num
Pack0 Rax 10	2	num
Pack0 Rax11	2	num
Pack0 Rax 12	9	num
Pack0 Rax 13	19	num
Pack0 Rax 14	106	num
Pack1 Rax	-	-
Pack1 Rax status	FF	
Pack1 Rax flag	FF	
Pack1 Rax Base R	18	
Pack1 Rax Gain	00	
Pack1 Rax 1	3	num
Pack1 Rax 2	3	num
Pack1 Rax 3	3	num
Pack1 Rax 4	6	num
Pack1 Rax 5	-8	num
Pack1 Rax 6	4	num
Pack1 Rax 7	3	num
Pack1 Rax 8	-3	num
Pack1 Rax 9	0	num
Pack1 Rax 10	2	num
Pack1 Rax 11	2	num
Pack1 Rax 12	9	num
Pack1 Rax 13	19	num
Pack1 Rax 14	106	num

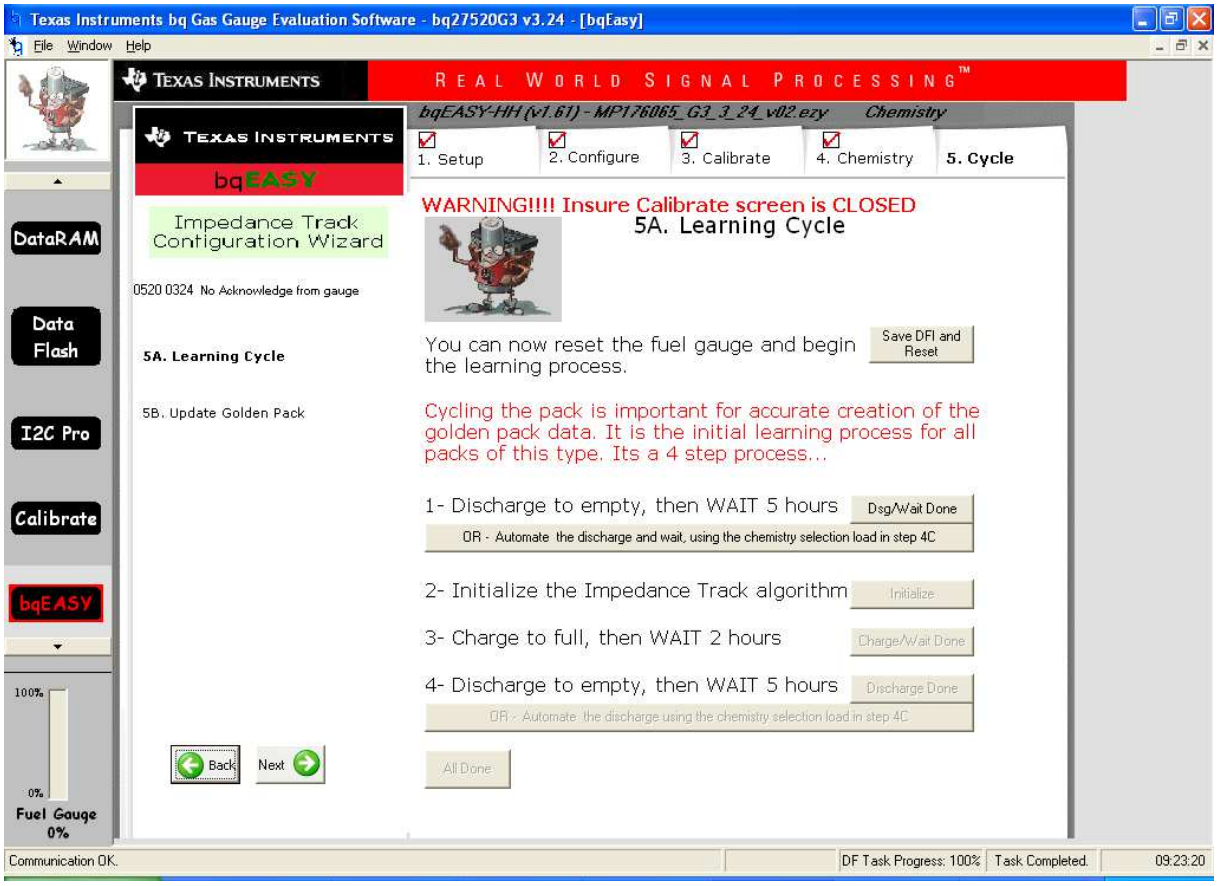


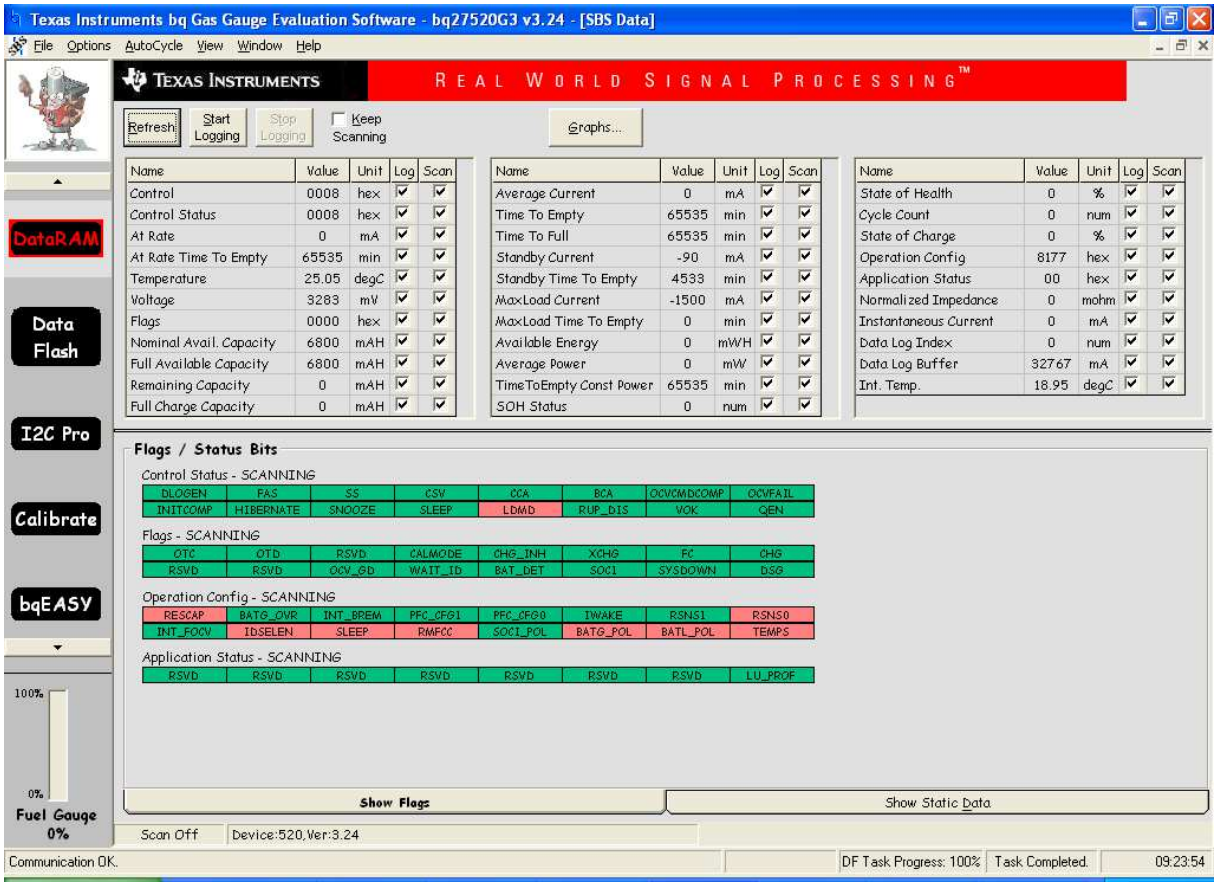
Name	Value	Unit
Codes	-	-
Sealed to Unsealed	36720414	

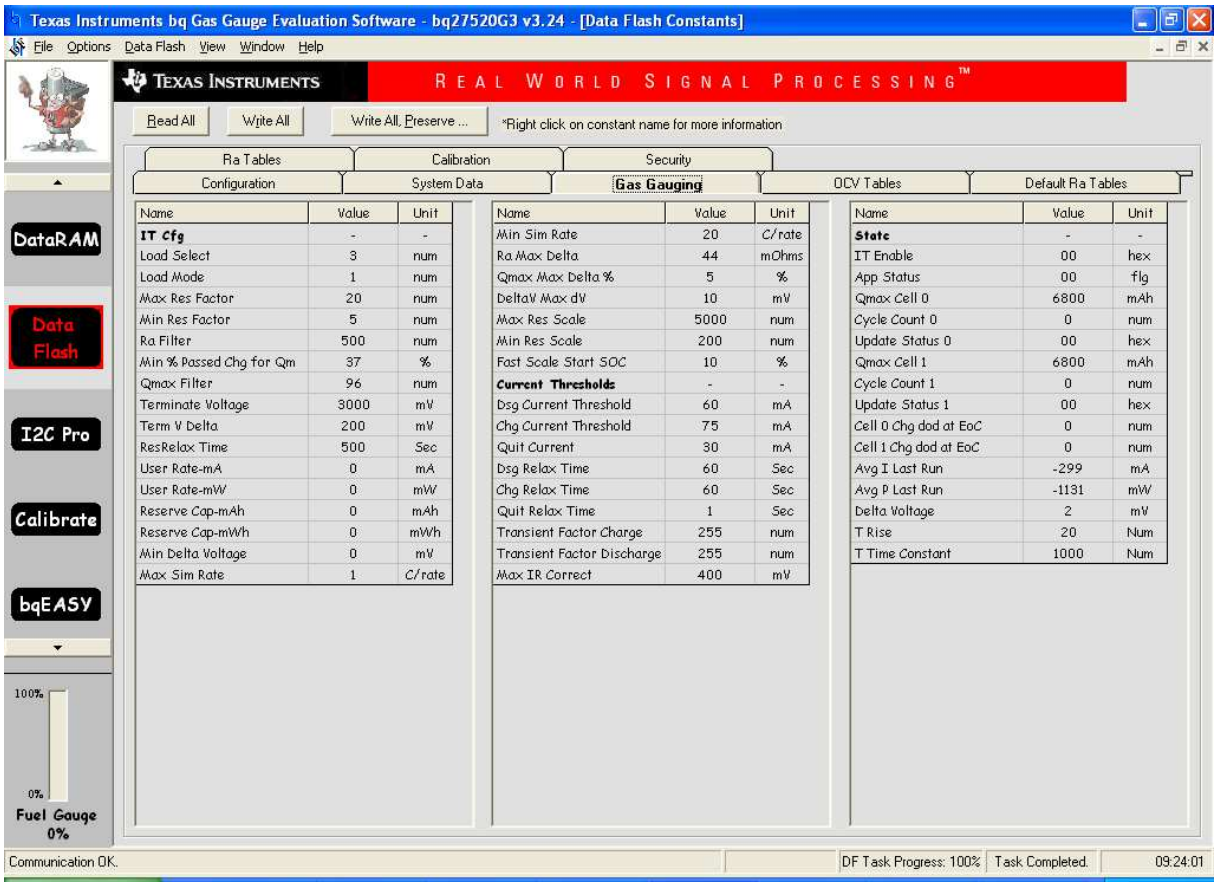
Name	Value	Unit
Unsealed to Full	FFFFFFFF	

Name	Value	Unit
FactRestore Key	0DEF0FAC	

After click « Save DFI and Reset ». RUP_DIS is cleared (green), it should be set (red).





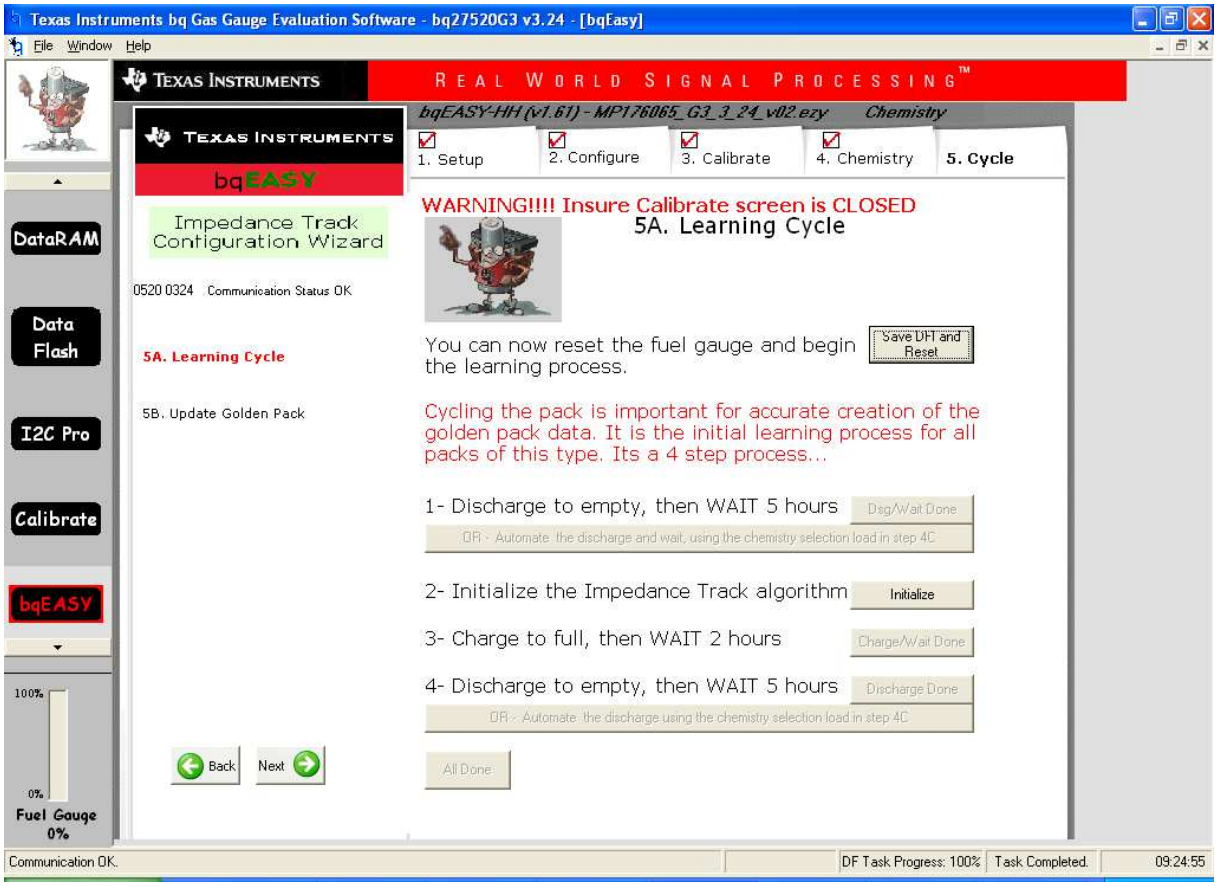


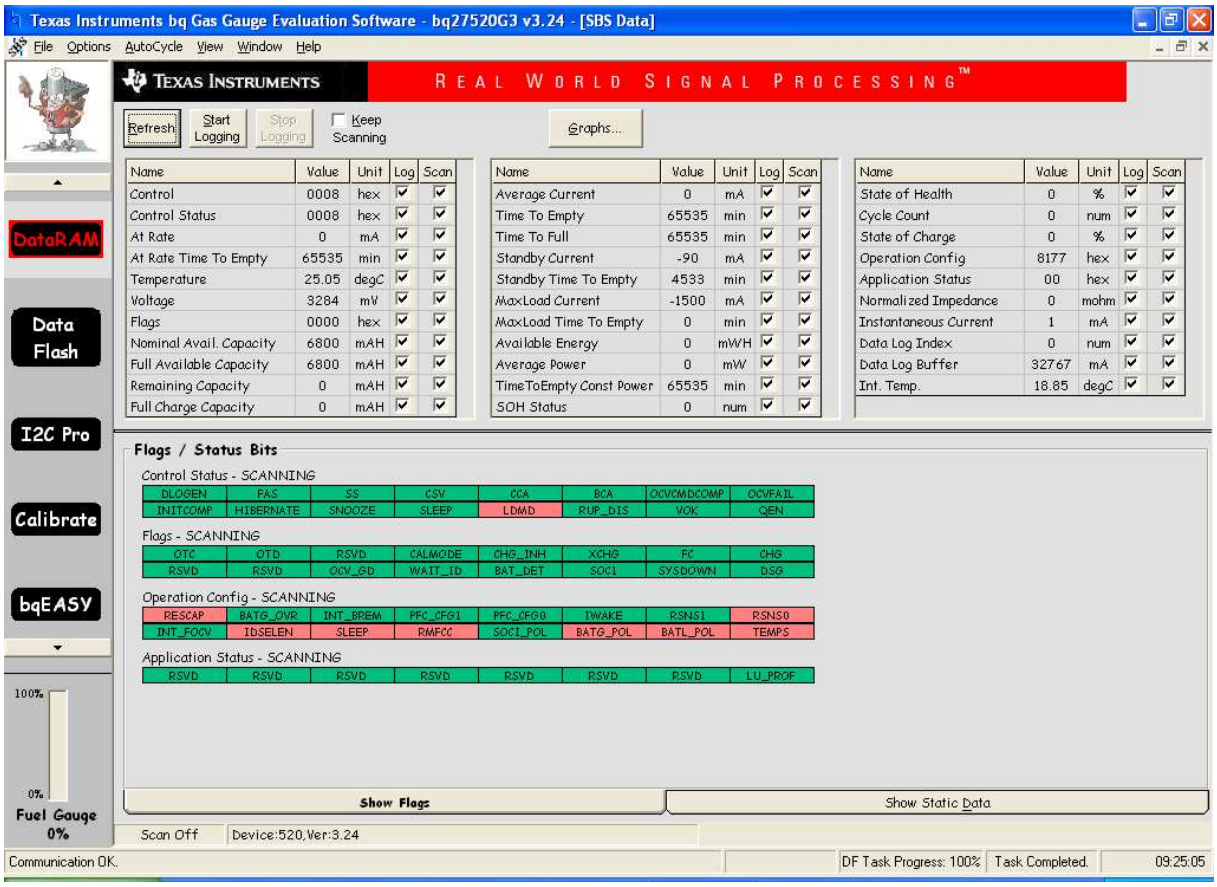
Name	Value	Unit
IT Cfg	-	-
Load Select	3	num
Load Mode	1	num
Max Res Factor	20	num
Min Res Factor	5	num
Ra Filter	500	num
Min % Passed Chg for Qm	37	%
Qmax Filter	96	num
Terminate Voltage	3000	mV
Term V Delta	200	mV
ResRelax Time	500	Sec
User Rate-mA	0	mA
User Rate-mW	0	mW
Reserve Cap-mAh	0	mAh
Reserve Cap-mWh	0	mWh
Min Delta Voltage	0	mV
Max Sim Rate	1	C/rate

Name	Value	Unit
Min Sim Rate	20	C/rate
Ra Max Delta	44	mOhms
Qmax Max Delta %	5	%
DeltaV Max dV	10	mV
Max Res Scale	5000	num
Min Res Scale	200	num
Fast Scale Start SOC	10	%
Current Thresholds	-	-
Dsg Current Threshold	60	mA
Chg Current Threshold	75	mA
Quit Current	30	mA
Dsg Relax Time	60	Sec
Chg Relax Time	60	Sec
Quit Relax Time	1	Sec
Transient Factor Charge	255	num
Transient Factor Discharge	255	num
Max IR Correct	400	mV

Name	Value	Unit
State	-	-
IT Enable	00	hex
App Status	00	flg
Qmax Cell 0	6800	mAh
Cycle Count 0	0	num
Update Status 0	00	hex
Qmax Cell 1	6800	mAh
Cycle Count 1	0	num
Update Status 1	00	hex
Cell 0 Chg dod at EoC	0	num
Cell 1 Chg dod at EoC	0	num
Avg I Last Run	-299	mA
Avg P Last Run	-1131	mW
Delta Voltage	2	mV
T Rise	20	Num
T Time Constant	1000	Num

Battery already discharged and relaxed, after click « Dsg/Wait Done ». RUP_DIS it should be set (red).

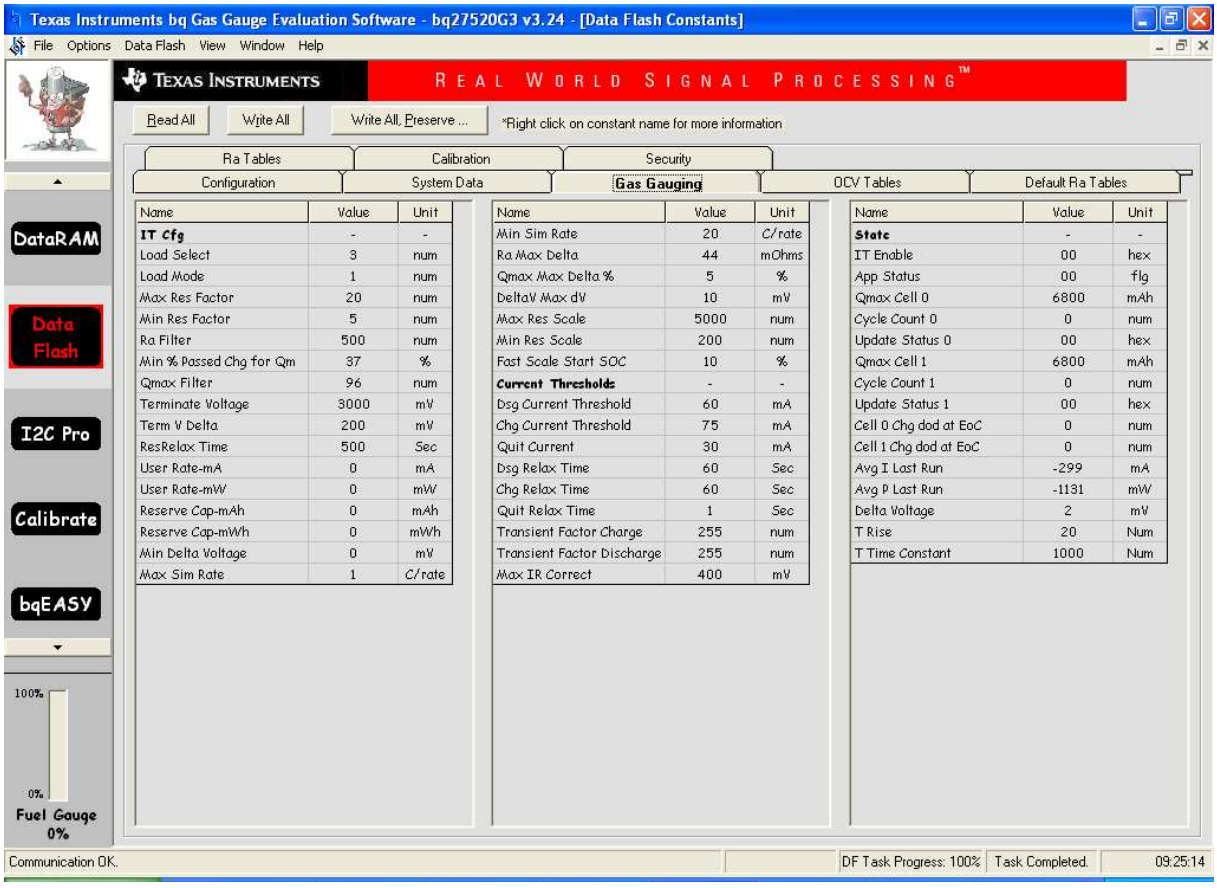




Name	Value	Unit	Log	Scan
Control	0008	hex	☑	☑
Control Status	0008	hex	☑	☑
At Rate	0	mA	☑	☑
At Rate Time To Empty	65535	min	☑	☑
Temperature	25.05	degC	☑	☑
Voltage	3284	mV	☑	☑
Flags	0000	hex	☑	☑
Nominal Avail. Capacity	6800	mAH	☑	☑
Full Available Capacity	6800	mAH	☑	☑
Remaining Capacity	0	mAH	☑	☑
Full Charge Capacity	0	mAH	☑	☑

Name	Value	Unit	Log	Scan
Average Current	0	mA	☑	☑
Time To Empty	65535	min	☑	☑
Time To Full	65535	min	☑	☑
Standby Current	-90	mA	☑	☑
Standby Time To Empty	4533	min	☑	☑
MaxLoad Current	-1500	mA	☑	☑
MaxLoad Time To Empty	0	min	☑	☑
Available Energy	0	mWH	☑	☑
Average Power	0	mW	☑	☑
TimeToEmpty Const Power	65535	min	☑	☑
SOH Status	0	num	☑	☑

Name	Value	Unit	Log	Scan
State of Health	0	%	☑	☑
Cycle Count	0	num	☑	☑
State of Charge	0	%	☑	☑
Operation Config	8177	hex	☑	☑
Application Status	00	hex	☑	☑
Normalized Impedance	0	mohm	☑	☑
Instantaneous Current	1	mA	☑	☑
Data Log Index	0	num	☑	☑
Data Log Buffer	32767	mA	☑	☑
Int. Temp.	18.85	degC	☑	☑

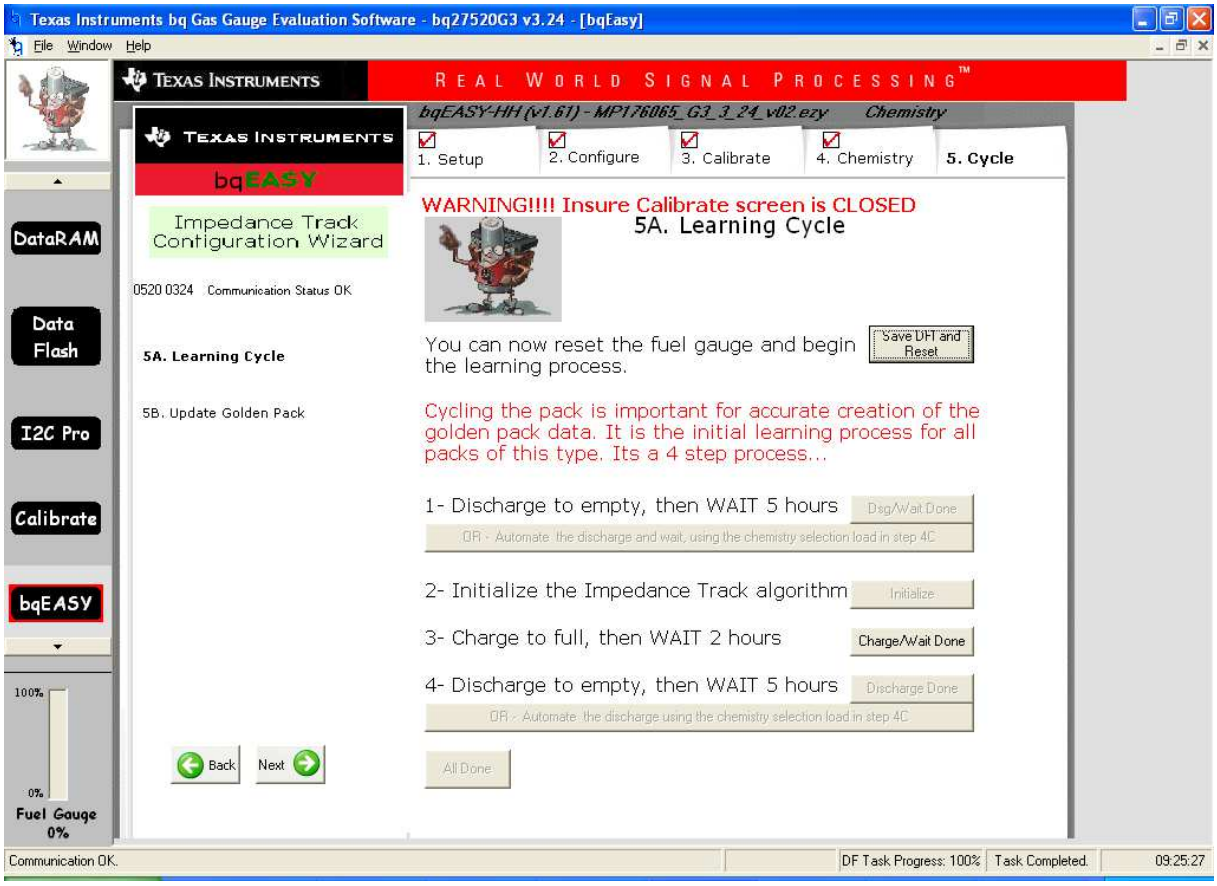


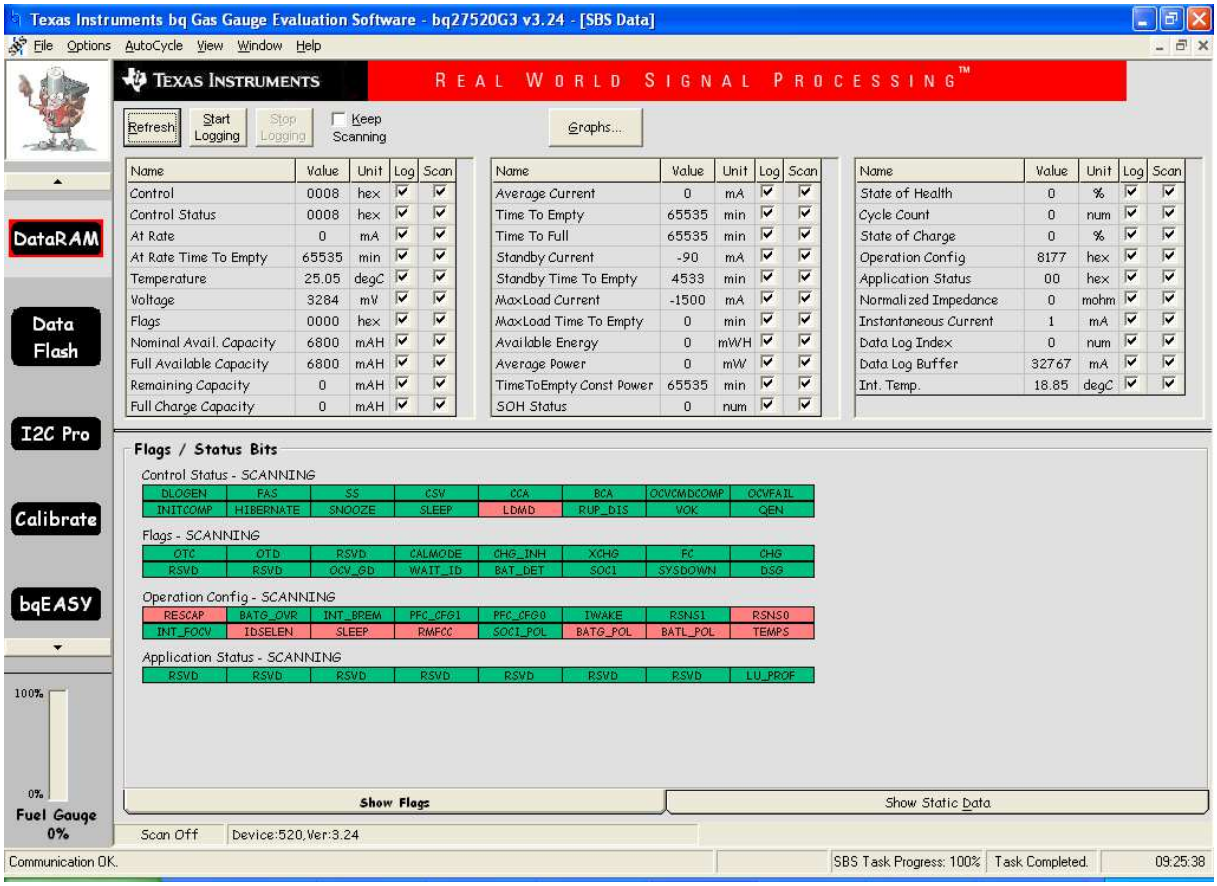
Name	Value	Unit
IT Cfg	-	-
Load Select	3	num
Load Mode	1	num
Max Res Factor	20	num
Min Res Factor	5	num
Ra Filter	500	num
Min % Passed Chg for Qm	37	%
Qmax Filter	96	num
Terminate Voltage	3000	mV
Term V Delta	200	mV
ResRelax Time	500	Sec
User Rate-mA	0	mA
User Rate-mW	0	mW
Reserve Cap-mAh	0	mAh
Reserve Cap-mWh	0	mWh
Min Delta Voltage	0	mV
Max Sim Rate	1	C/rate

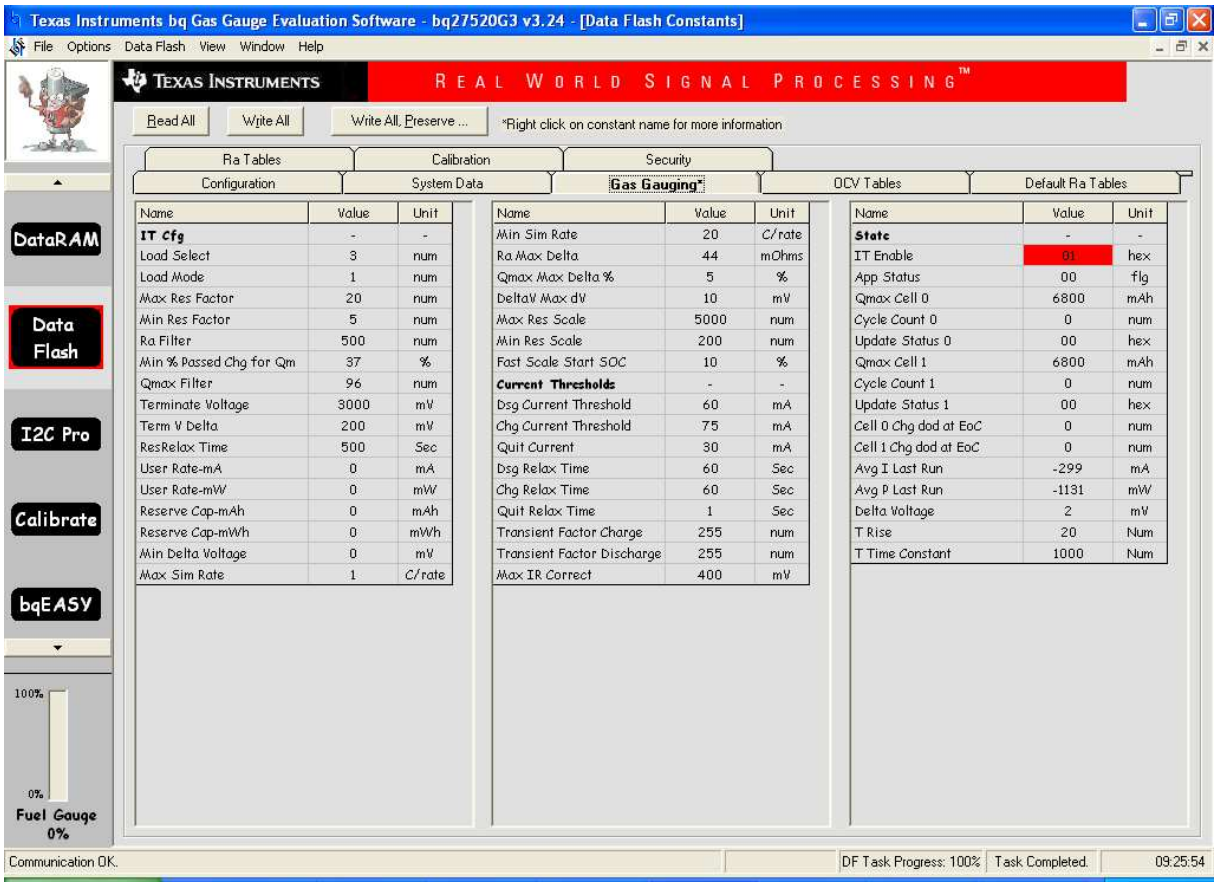
Name	Value	Unit
Min Sim Rate	20	C/rate
Ra Max Delta	44	mOhms
Qmax Max Delta %	5	%
DeltaV Max dV	10	mV
Max Res Scale	5000	num
Min Res Scale	200	num
Fast Scale Start SOC	10	%
Current Thresholds	-	-
Dsg Current Threshold	60	mA
Chg Current Threshold	75	mA
Quit Current	30	mA
Dsg Relax Time	60	Sec
Chg Relax Time	60	Sec
Quit Relax Time	1	Sec
Transient Factor Charge	255	num
Transient Factor Discharge	255	num
Max IR Correct	400	mV

Name	Value	Unit
State	-	-
IT Enable	00	hex
App Status	00	flg
Qmax Cell 0	6800	mAh
Cycle Count 0	0	num
Update Status 0	00	hex
Qmax Cell 1	6800	mAh
Cycle Count 1	0	num
Update Status 1	00	hex
Cell 0 Chg dod at EoC	0	num
Cell 1 Chg dod at EoC	0	num
Avg I Last Run	-299	mA
Avg P Last Run	-1131	mW
Delta Voltage	2	mV
T Rise	20	Num
T Time Constant	1000	Num

After click « Initialize ». VOK and QEN should be set (red).







Export to MP176065_G3_2_initialize_bat3.gg .