

## **Annex L. Verifying the Mechanism Operation of Gravity-sensor**

The power verified by LCD angle changed are shown as below.

Test Band : WCDMA II for 3G Representative																																										
Summary	<A> From lld closed when LCD is 0° which DSI = 0, opening the screen side in 10° each step until DSI = 2 is obtained.																																									
	Degrees	0	10	20	30	40	50																				160	170	180	190	200	210										
	Power (dBm)	22.7	22.7	22.8	22.6	22.5	22.6																				22.8	23.0	23.0	22.8	22.9	15.3										
	<B> Close the screen side in 5° each step from Step A, until DSI = 0 is reobtained.																																									
The Power level changed by LCD Triggerring Angle is 200°	Degrees																										190	195	200	205	210											
	Power (dBm)																										22.5	22.5	22.6	15.5	15.3											
	<C> Verifying the power changed in 1° at each step.																																									
	Degrees																										198	199	200	201	202											
	Power (dBm)																										22.8	22.7	22.8	15.5	15.7											
	<D>Then Keep opening the screen side in 10° each step until fully open when LCD angle.																																									
	Degrees	0	10	20	30	40	50																				180	190	200	210	220											
	Power (dBm)	22.7	22.5	22.5	22.6	22.4	22.3																				22.7	22.7	22.9	15.4	15.3											
	<E> From fully open when LCD is 360° which DSI = 2, closing the screen side in 10° each step until DSI = 0 is obtained.																																									
	Degrees	360	350	340	330	320	310																				200	190	180	170	160											
	Power (dBm)	15.7	15.9	15.8	15.7	15.8	15.9																				22.6	22.6	22.7	22.5	22.5											
	<F> From fully open when LCD is 360° which DSI = 2, closing the screen side in 5° each step until fully closed.																																									
Degrees	360	355	350	345	340	335	330	325	320	315	310															205	200	195														
Power (dBm)	15.6	15.5	15.4	15.5	15.5	15.6	15.6	15.5	15.4	15.4	15.4															15.8	22.8	23.0														
<G> Closing the screen side in 1° each step until DSI = 1 is obtained and keep closing until fully closed.																																										
Degrees	360	359	358	357	356	355	354	353	352	351	350															202	201	200	199	198	199	198										
Power (dBm)	15.6	15.5	15.5	15.4	15.7	15.9	15.7	15.6	15.5	15.5	15.4															15.2	15.3	22.5	22.6	22.5	22.5	22.4										
Test Band : LTE 2 for 4G Representative																																										
Summary	<A> From lld closed when LCD is 0° which DSI = 0, opening the screen side in 10° each step until DSI = 2 is obtained.																																									
	Degrees	0	10	20	30	40	50																				160	170	180	190	200	210										
	Power (dBm)	23.4	23.5	23.5	23.2	23.2	23.1																				23.8	23.8	23.4	23.2	23.1	15.5										
	<B> Close the screen side in 5° each step from Step A, until DSI = 0 is reobtained.																																									
The Power level changed by LCD Triggerring Angle is 200°	Degrees																										190	195	200	205	210											
	Power (dBm)																										23.1	23.3	23.1	15.6	15.5											
	<C> Verifying the power changed in 1° at each step.																																									
	Degrees																										198	199	200	201	202											
	Power (dBm)																										22.9	22.8	22.9	15.5	15.5											
	<D>Then Keep opening the screen side in 10° each step until fully open when LCD angle.																																									
	Degrees	0	10	20	30	40	50																				180	190	200	210	220											
	Power (dBm)	22.8	22.8	22.9	22.8	23.0	22.9																				22.8	22.9	22.8	15.7	15.9											
	<E> From fully open when LCD is 360° which DSI = 2, closing the screen side in 10° each step until DSI = 0 is obtained.																																									
	Degrees	360	340	330	320	310																				200	190	180	170	160												
	Power (dBm)	15.7	15.5	15.5	15.7	15.6	15.6																				22.9	23.1	23.0	22.8	22.9											
	<F> From fully open when LCD is 360° which DSI = 2, closing the screen side in 5° each step until fully closed.																																									
Degrees	360	355	350	345	340	335	330	325	320	315	310															205	200	195														
Power (dBm)	15.7	15.5	15.7	15.7	15.8	15.7	15.6	15.5	15.8	15.7	15.8															15.7	22.8	22.9														
<G> Closing the screen side in 1° each step until DSI = 1 is obtained and keep closing until fully closed.																																										
Degrees	360	359	358	357	356	355	354	353	352	351	350															202	201	200	199	198	199	198										
Power (dBm)	15.8	16.0	16.0	15.9	15.9	15.8	15.9	15.8	15.8	15.7	15.7															15.5	15.6	22.7	22.7	22.8	22.7											