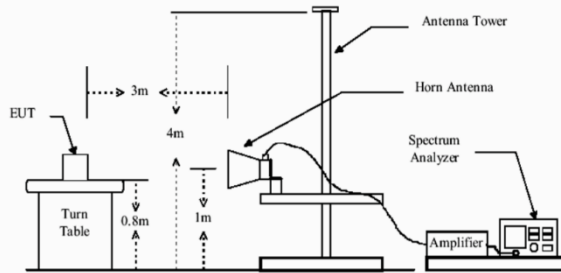


10. EUT TEST PHOTO	7
11. PHOTOGRAPHS OF EUT	9

9 SPURIOUS EMISSION RESTRICTED BAND

Test Frequency Range:	Band 1: 4.5 GHz to 5.15 GHz and 5.35GHz to 5.46GHz Band 4: 5.35 GHz to 5.46 GHz		
Test site:	Measurement Distance: 3m		
Limit:			
	Frequency	Limit (dBuV/m @3m)	Remark
	Above 1GHz	74.00	Peak Value
		54.00	Average Value
Test Procedure:	7. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation. 8. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. 9. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. 10. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading. 11. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. 12. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasipeak or average method as specified and then reported in a data sheet.		

Test setup:



Test results:

Passed

Band 1:**802.11a**

Test channel		Lowest			Level		Peak	
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4500.00	34.78	30.31	7.35	40.57	31.87	74	-42.13	Horizontal
4500.00	35.08	30.31	7.35	40.57	32.17	74	-41.83	Vertical
Test c hannel		Lowest			Le vel		A verage	
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4500.00	24.45	30.31	7.35	40.57	21.54	54	-32.46	Horizontal
4500.00	24.23	30.31	7.35	40.57	21.32	54	-32.68	Vertical
Test c hannel		Highest			Le vel		Peak	
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5460.00	35.42	31.32	8.23	40.13	34.84	74	-39.16	Horizontal
5460.00	35.33	31.32	8.23	40.13	34.75	74	-39.25	Vertical
Test c hannel		Highest			Le vel		A verage	
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5460.00	26.64	31.32	8.23	40.13	26.06	54	-27.94	Horizontal
5460.00	25.68	31.32	8.23	40.13	25.1	54	-28.9	Vertical

Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor
2. The emission levels of other frequencies are very lower than the limit and not show in test report.

802.11n-HT20

Test channel		Lowest			Level		Peak	
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4500.00	37.44	30.31	7.35	40.57	34.53	74	-39.47	Horizontal
4500.00	37.56	30.31	7.35	40.57	34.65	74	-39.35	Vertical
Test c hannel		Lowest			Le vel		A verage	
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4500.00	27.33	30.31	7.35	40.57	24.42	54	-29.58	Horizontal
4500.00	27.16	30.31	7.35	40.57	24.25	54	-29.75	Vertical
Test c hannel		Highest			Le vel		Peak	
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5460.00	36.34	31.32	8.23	40.13	35.76	74	-38.24	Horizontal
5460.00	37.16	31.32	8.23	40.13	36.58	74	-37.42	Vertical
Test c hannel		Highest			Le vel		A verage	
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5460.00	27.31	31.32	8.23	40.13	26.73	54	-27.27	Horizontal
5460.00	27.36	31.32	8.23	40.13	26.78	54	-27.22	Vertical

Remark:

1. *Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor*
2. *The emission levels of other frequencies are very lower than the limit and not show in test report.*

802.11n-HT40

Test channel		Lowest			Level		Peak	
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4500.00	37.45	30.31	7.35	40.57	34.54	74	-39.46	Horizontal
4500.00	37.56	30.31	7.35	40.57	34.65	74	-39.35	Vertical
Test c hannel		Lowest			Le vel		A verage	
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4500.00	27.42	30.31	7.35	40.57	24.51	54	-29.49	Horizontal
4500.00	27.37	30.31	7.35	40.57	24.46	54	-29.54	Vertical
Test c hannel		Highest			Le vel		Peak	
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5460.00	36.45	31.32	8.23	40.13	35.87	74	-38.13	Horizontal
5460.00	37.18	31.32	8.23	40.13	36.6	74	-37.40	Vertical
Test c hannel		Highest			Le vel		A verage	
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5460.00	27.24	31.32	8.23	40.13	26.66	54	-27.34	Horizontal
5460.00	27.65	31.32	8.23	40.13	27.07	54	-26.93	Vertical

Remark:

1. *Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor*
2. *The emission levels of other frequencies are very lower than the limit and not show in test report.*

Band 4:**802.11a**

Test channel		Lowest			Level		Peak	
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5350.00	45.53	31.68	8.22	40.18	45.25	74	-28.75	Horizontal
5460.00	44.23	31.87	8.23	40.23	44.1	74	-29.9	Horizontal
5350.00	44.67	31.68	8.22	40.18	44.39	74	-29.61	Vertical
5460.00	43.34	31.87	8.23	40.23	43.21	74	-30.79	Vertical
Test c hannel		Lowest			Le vel		A verage	
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5350.00	34.63	31.68	8.22	40.18	34.35	54	-19.65	Horizontal
5460.00	34.78	31.87	8.23	40.23	34.65	54	-19.35	Horizontal
5350.00	34.56	31.68	8.22	40.18	34.28	54	-19.72	Vertical
5460.00	34.23	31.87	8.23	40.23	34.1	54	-19.9	Vertical

802.11n-HT20

Test channel		Lowest			Level		Peak	
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5350.00	44.82	31.68	8.22	40.18	44.54	74	-29.46	Horizontal
5460.00	44.43	31.87	8.23	40.23	44.3	74	-29.7	Horizontal
5350.00	44.52	31.68	8.22	40.18	44.24	74	-29.76	Vertical
5460.00	44.23	31.87	8.23	40.23	44.1	74	-29.9	Vertical
Test c hannel		Lowest			Le vel		A verage	

Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5350.00	34.54	31.68	8.22	40.18	34.26	54	-19.74	Horizontal
5460.00	34.38	31.87	8.23	40.23	34.25	54	-19.75	Horizontal
5350.00	34.16	31.68	8.22	40.18	33.88	54	-20.12	Vertical
5460.00	34.63	31.87	8.23	40.23	34.5	54	-19.5	Vertical

Remark:

1. *Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor*
2. *The emission levels of other frequencies are very lower than the limit and not show in test report.*

802.11n-HT40

Test channel		Lowest			Level		Peak	
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5350.00	44.35	31.68	8.22	40.18	44.07	74	-29.93	Horizontal
5460.00	44.31	31.87	8.23	40.23	44.18	74	-29.82	Horizontal
5350.00	44.23	31.68	8.22	40.18	43.95	74	-30.05	Vertical
5460.00	44.43	31.87	8.23	40.23	44.3	74	-29.7	Vertical
Test c hannel		Lowest			Le vel		A verage	
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5350.00	35.67	31.68	8.22	40.18	35.39	54	-18.61	Horizontal
5460.00	35.25	31.87	8.23	40.23	35.12	54	-18.88	Horizontal
5350.00	35.31	31.68	8.22	40.18	35.03	54	-18.97	Vertical
5460.00	35.24	31.87	8.23	40.23	35.11	54	-18.89	Vertical

Remark:

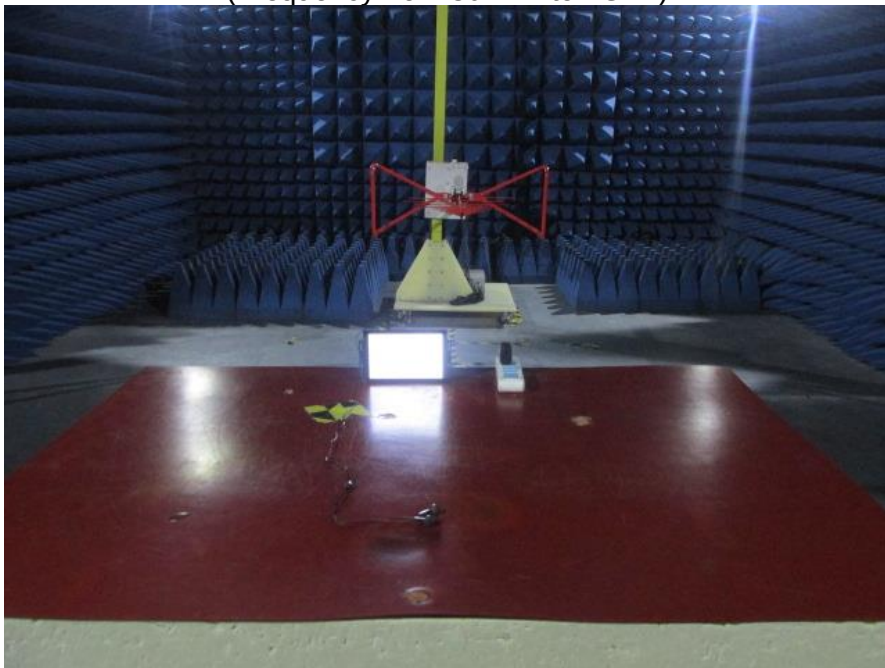
1. *Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor*
2. *The emission levels of other frequencies are very lower than the limit and not show in test report.*

10. EUT TEST PHOTO

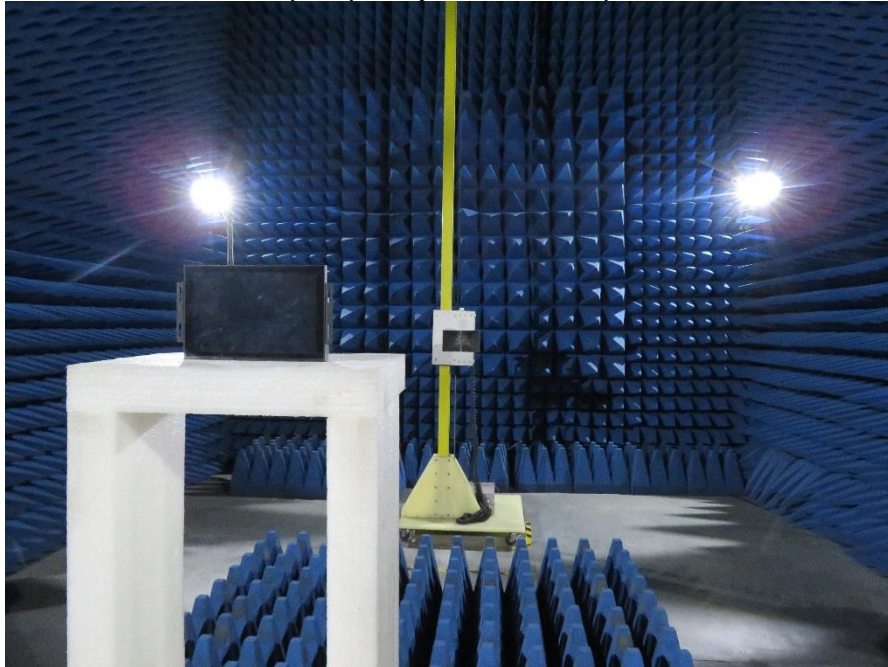
CONDUCTED EMISSION TEST



RADIATED EMISSION TEST (Frequency from 30MHz to 1GHz)



RADIATED EMISSION TEST
(Frequency above 1GHz)



11.PHOTOGRAPHS OF EUT

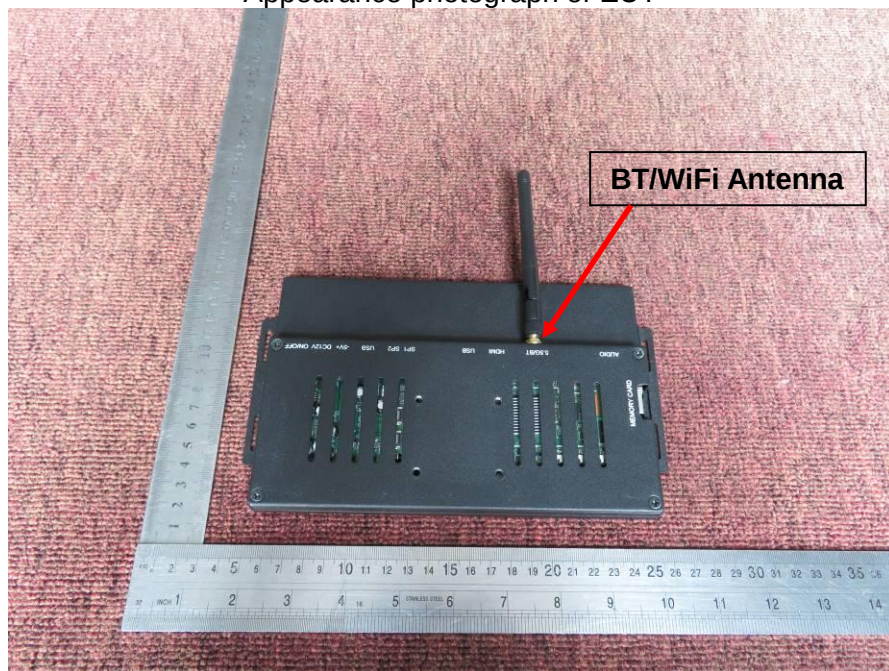
Appearance photograph of EUT



Appearance photograph of EUT



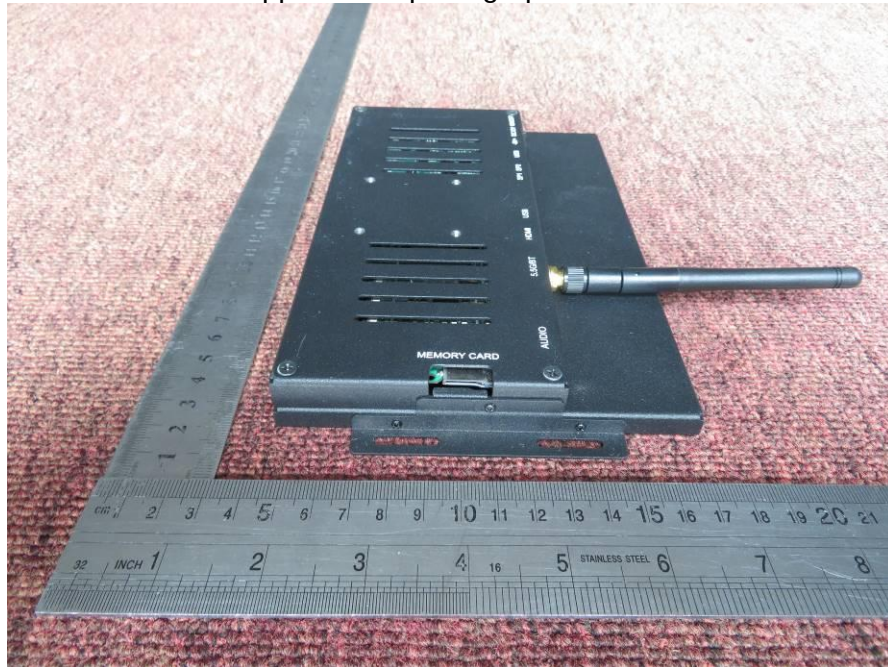
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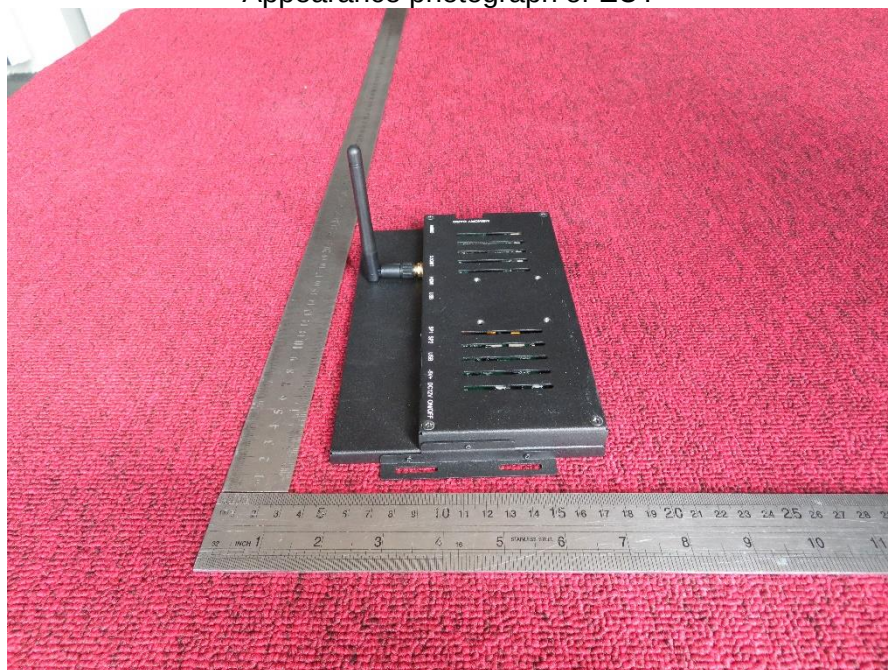
Appearance photograph of EUT



Appearance photograph of EUT



Appearance photograph of EUT



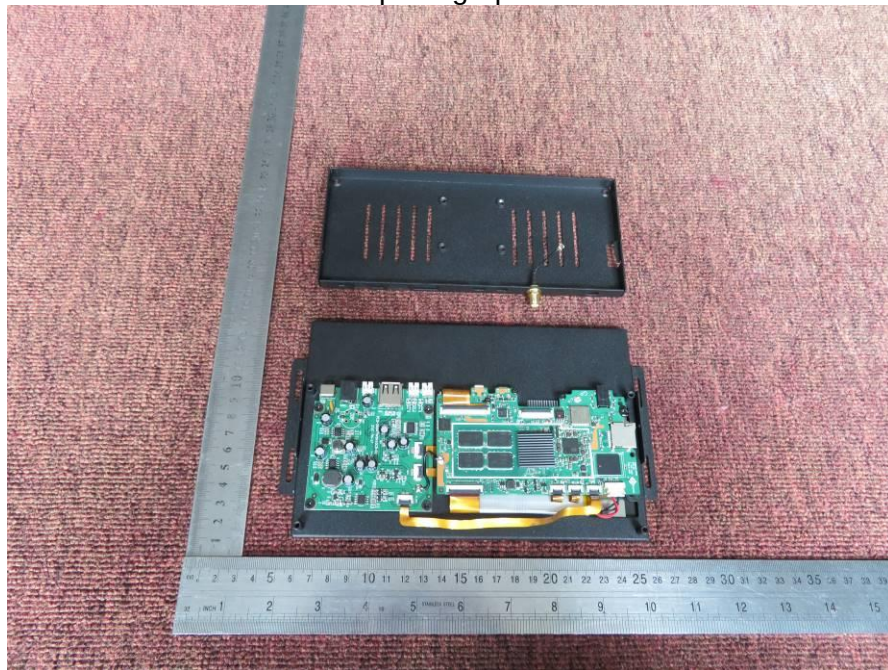
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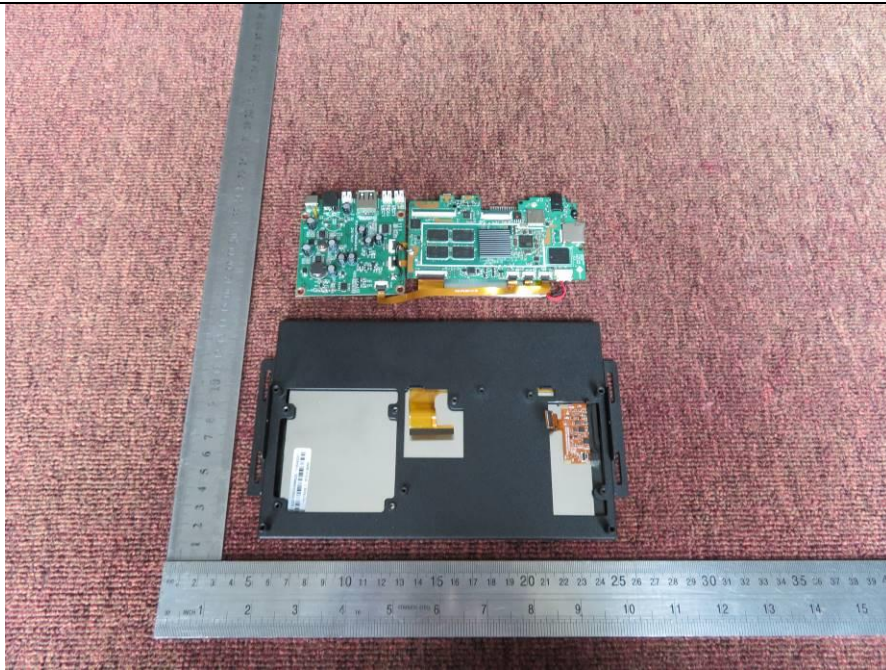
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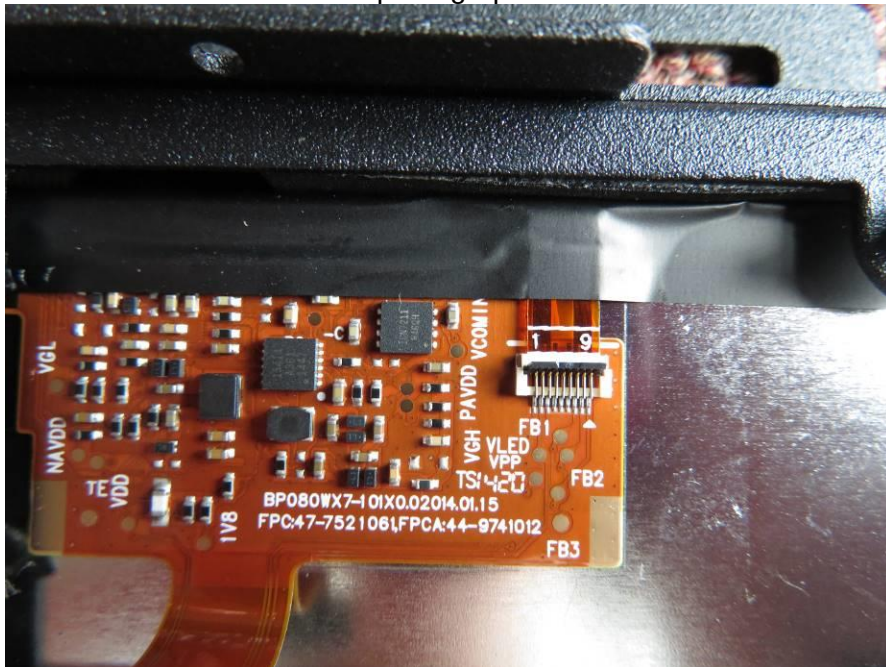
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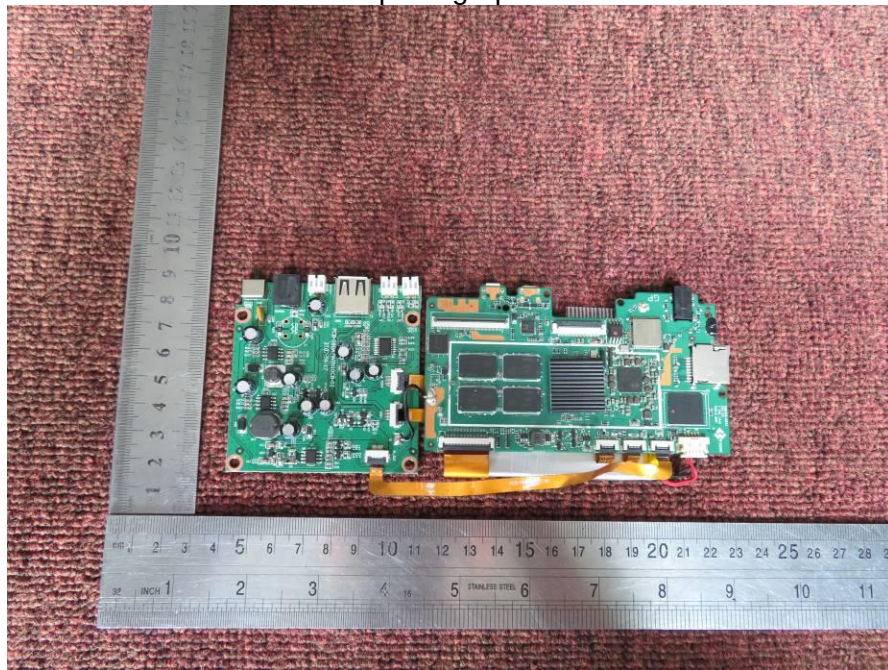
Internal photograph of EUT



Internal photograph of EUT



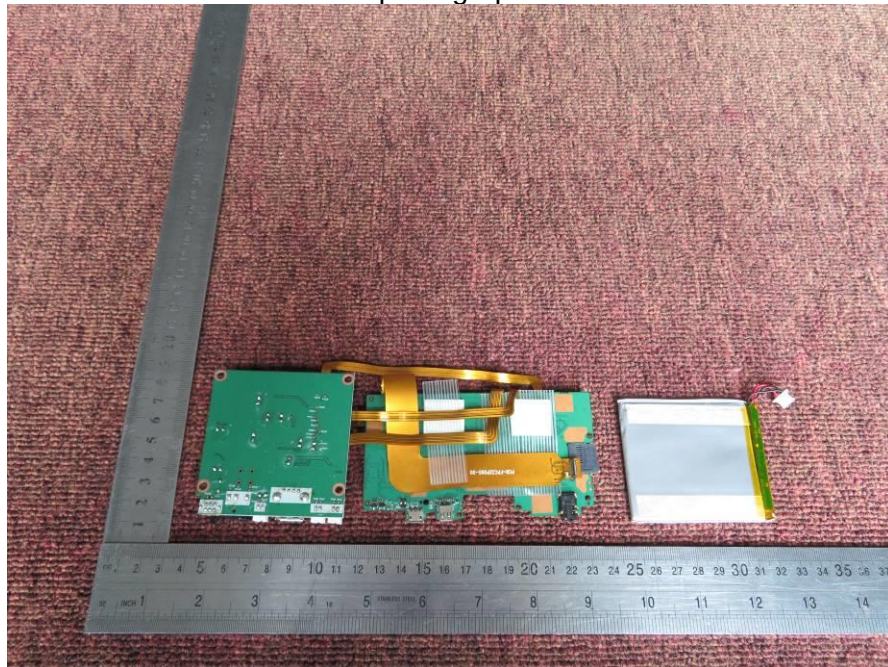
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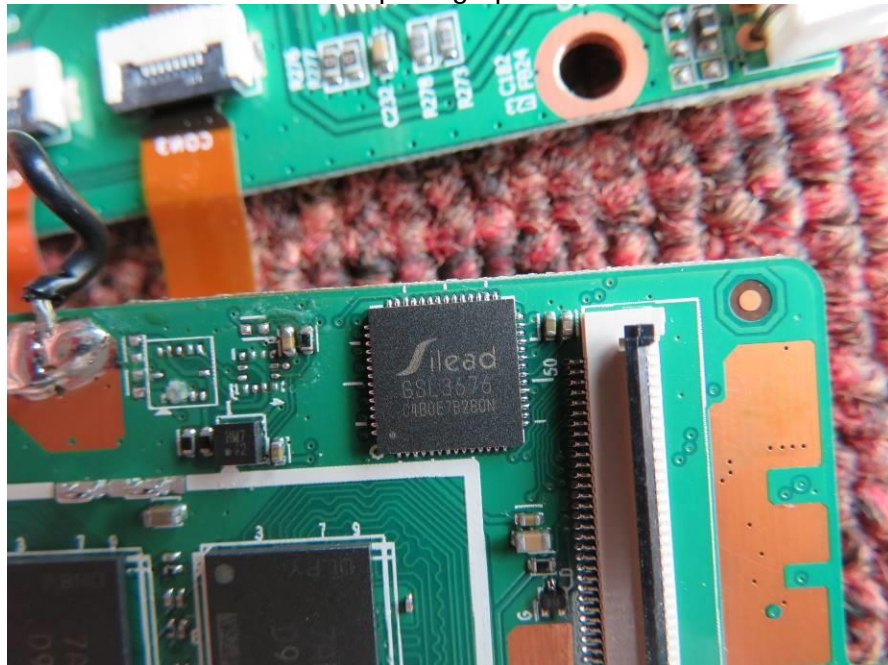
Internal photograph of EUT



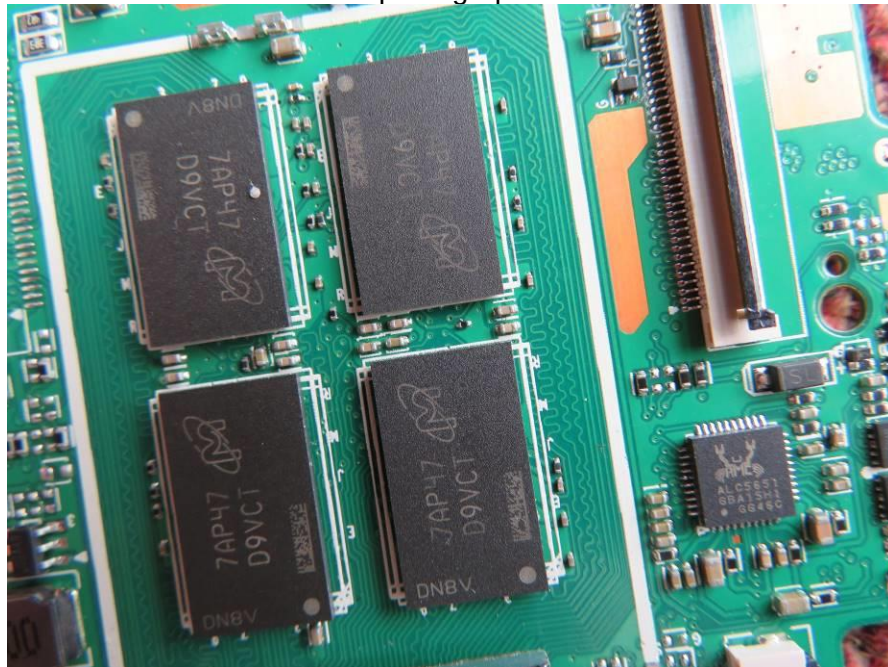
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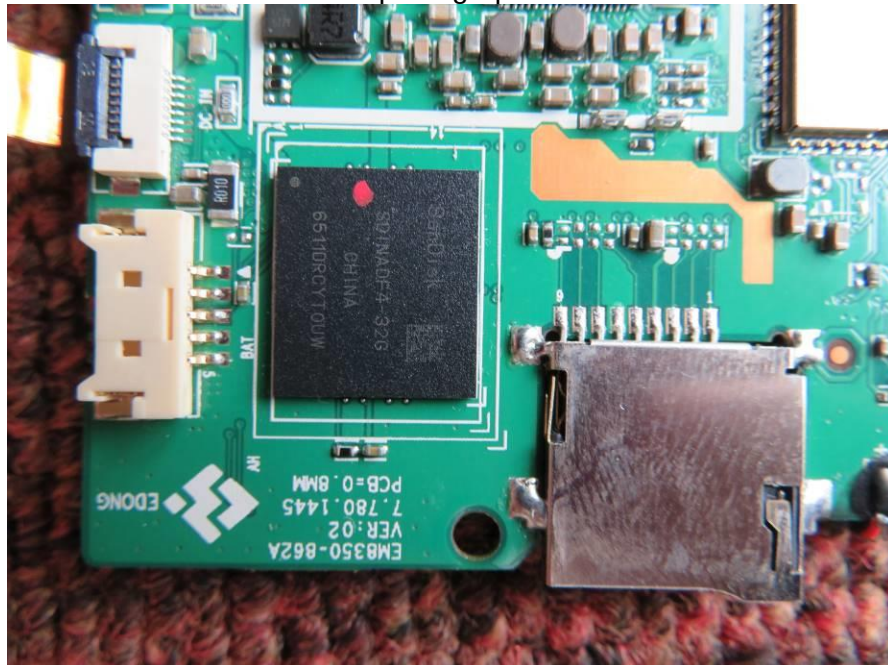
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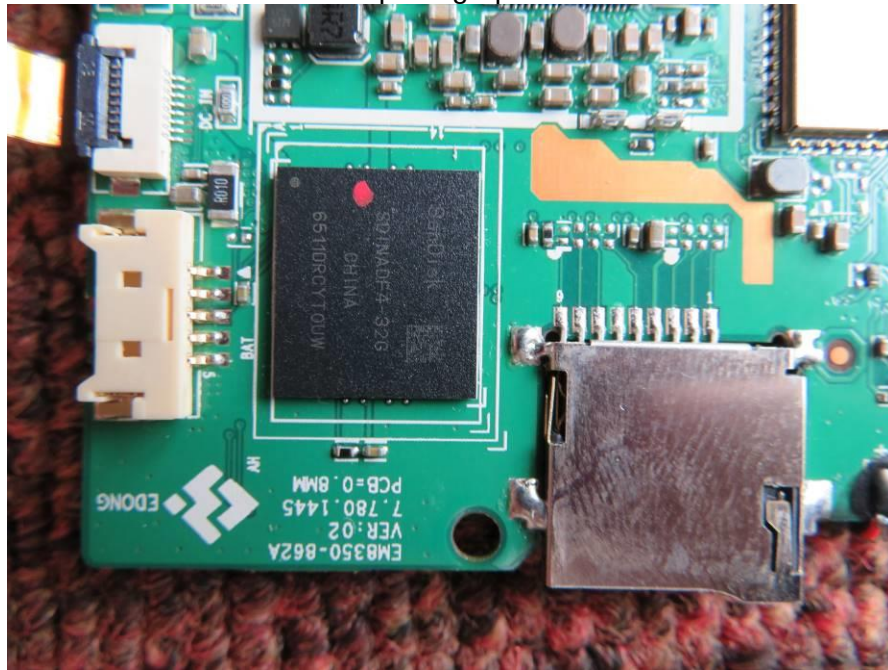
Internal photograph of EUT



Internal photograph of EUT



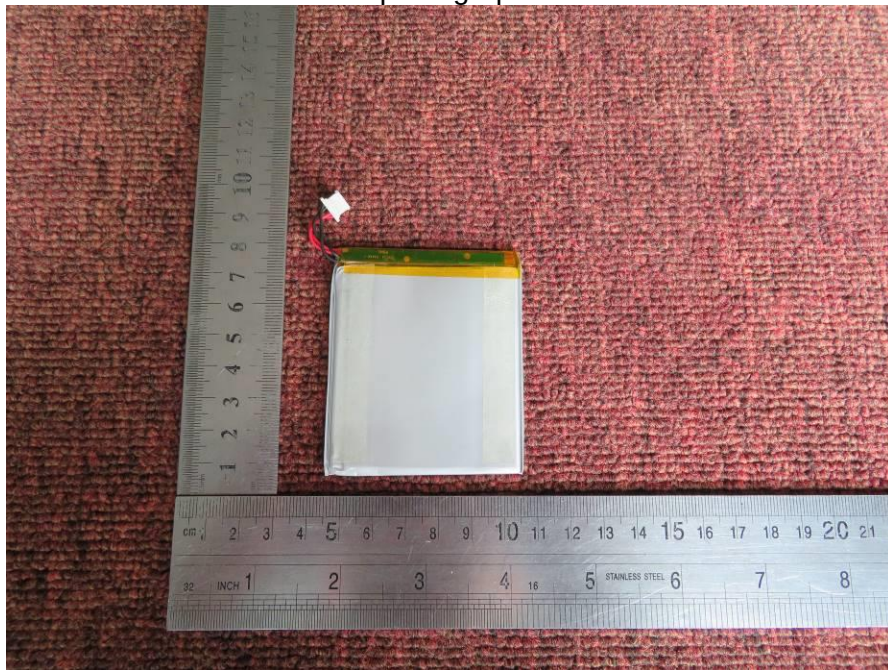
Internal photograph of EUT



Internal photograph of EUT



Internal photograph of EUT



---END OF REPORT--