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### Appendix G): AC Power Line Conducted Emission

Test Procedure: Test frequency range :150KHz-30MHz 1) The mains terminal disturbance voltage test was conducted in a shielded room. 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a  $50\Omega/50\mu$ H +  $5\Omega$  linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded. 3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane, 4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2. 5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10 on conducted measurement. Limit: Limit (dBuV) Frequency range (MHz) Quasi-peak Average 0.15-0.5 66 to 56\* 56 to 46\* 46 0.5-5 56 5-30 60 50 \* The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz. NOTE : The lower limit is applicable at the transition frequency

#### **Measurement Data**

An initial pre-scan was performed on the live and neutral lines with peak detector.

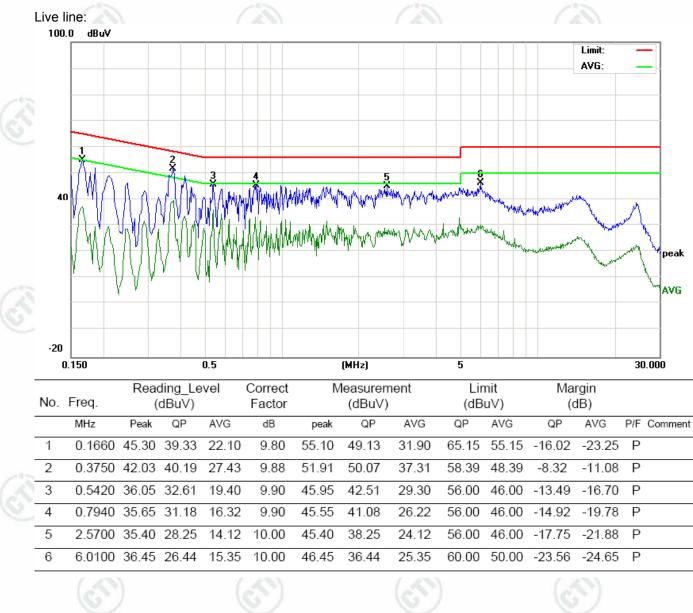
Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.







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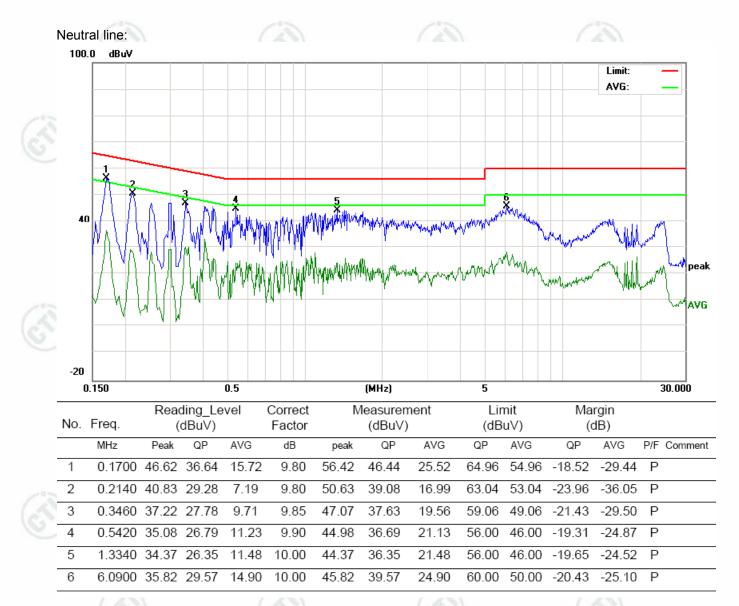








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#### Notes:

- 1. The following Quasi-Peak and Average measurements were performed on the EUT:
- 2. Final Test Level =Receiver Reading + LISN Factor + Cable Loss.







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# Appendix H):Restricted bands around fundamental frequency (Radiated)

	Receiver Setup:	Frequency	Detector	RBW	VBW	Remark	
22		30MHz-1GHz	Quasi-peak	120 kHz	300kHz	Quasi-peak	<
(2)			Peak	1MHz	3MHz	Peak	0
4		Above 1GHz	Peak	1MHz	10Hz	Average	1
	Test Procedure:	Below 1GHz test procedu	ire as below:				
		<ul> <li>a. The EUT was placed of at a 3 meter semi-aneod determine the position</li> <li>b. The EUT was set 3 meters was mounted on the too the too the end of the antenna height is a determine the maximul polarizations of the antenna was tuned table was turned from the antenna was tuned table was turned from the test-receiver system Bandwidth with Maxim</li> <li>f. Place a marker at the end frequency to show combands. Save the spectar for lowest and highest</li> </ul>	choic camber. The of the highest ra- eters away from up of a variable-hower of a variable-hower of the model of the file enna are set to nission, the EUT to heights from 0 degrees to 360 em was set to Per um Hold Mode. end of the restrict opliance. Also mor rum analyzer plo	he table wa adiation. the interfer height anter meter to fo eld strength make the n was arran 1 meter to 0 degrees t eak Detect	ence-receinna tower. bur meters h. Both hou neasureme ged to its 4 meters 5 find the Function a closest to the cemission:	360 degrees iving antenna above the gr rizontal and v ent. worst case and and the rotate maximum rea nd Specified he transmit s in the restri	to a, which ound vertica nd the able ading. cted
Ð		<ul> <li>Above 1GHz test procedu</li> <li>g. Different between above to fully Anechoic Chamer 18GHz the distance is</li> <li>h. Test the EUT in the lo</li> <li>i. The radiation measure</li> </ul>	ve is the test site ber change forr 1 meter and tab west channel , tl	n table 0.8 le is 1.5 me he Highest	metre to 1 etre). channel	.5 metre( Ab	ove
		Transmitting mode, an	d found the X a	kis positioni	ng which i	t is worse ca	
	Limit:		d found the X a	kis positioni uencies me	ng which i easured wa	t is worse ca	
	Limit:	Transmitting mode, an j. Repeat above procedu	d found the X ax res until all frequ	kis positioni uencies me /m @3m)	ng which i easured wa	t is worse ca as complete.	
	Limit:	Transmitting mode, an j. Repeat above procedu Frequency	d found the X ax res until all frequencies Limit (dBuV/	kis positioni uencies me /m @3m) )	ng which i easured wa Rei Quasi-po	t is worse ca as complete. mark	
	Limit:	Transmitting mode, an j. Repeat above procedu Frequency 30MHz-88MHz	d found the X ax res until all frequencies Limit (dBuV/ 40.0	kis positioni uencies me /m @3m) D 5	ng which i asured wa Rei Quasi-po Quasi-po	t is worse ca as complete. mark eak Value	
	Limit:	Transmitting mode, an j. Repeat above procedu Frequency 30MHz-88MHz 88MHz-216MHz	d found the X ax res until all frequencies Limit (dBuV/ 40.0 43.5	kis positioni uencies me /m @3m) D D D	ng which i easured wa Rei Quasi-po Quasi-po Quasi-po	t is worse ca as complete. mark eak Value eak Value	
	Limit:	Transmitting mode, an j. Repeat above procedu Frequency 30MHz-88MHz 88MHz-216MHz 216MHz-960MHz 960MHz-1GHz	d found the X ax res until all frequencies Limit (dBuV/ 40.0 43.8 46.0	kis positioni uencies me /m @3m) 0 5 0 0	ng which i easured wa Rei Quasi-po Quasi-po Quasi-po Quasi-po	t is worse ca as complete. mark eak Value eak Value eak Value	
(D)	Limit:	Transmitting mode, an j. Repeat above procedu Frequency 30MHz-88MHz 88MHz-216MHz 216MHz-960MHz	d found the X ax res until all frequencies Limit (dBuV/ 40.0 43.5 46.0 54.0	kis positioni uencies me /m @3m) D D D D D D	ng which i easured wa Ren Quasi-po Quasi-po Quasi-po Quasi-po Averag	t is worse ca as complete. mark eak Value eak Value eak Value eak Value	







Test plot	as follows	s:			6	105		(A)		
Worse cas	e mode:	802.11b	(11Mbps)							
Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Premap Factor (dB)	Read Level (dBµV)	Level (dBµV/m)	Limit (dBµV/m)	Over Limit (dB)	Antenna Polaxis	Remark	Test channel
2390.00	32.53	4.28	34.39	44.92	47.34	74	-26.66	Н	PK	Lowest
2390.00	32.53	4.28	34.39	44.95	47.37	74	-26.63	V	PK	Lowest
2483.50	32.71	4.51	34.41	44.41	47.22	74	-26.78	Н	PK	Highest
2483.50	32.71	4.51	34.41	44.75	47.56	74	-26.44	V	PK	Highest

Worse cas	e mode:	802.110	(6Mbps)							
Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Premap Factor (dB)	Read Level (dBµV)	Level (dBµV/m)	Limit (dBµV/m)	Over Limit (dB)	Antenna Polaxis	Remark	Test channel
2390.00	32.53	4.28	34.39	44.77	47.19	74	-26.81	Н	PK	Lowest
2390.00	32.53	4.28	34.39	44.48	46.90	74	-27.10	V	PK	Lowest
2483.50	32.71	4.51	34.41	44.17	46.98	74	-27.02	Н	PK	Highest
2483.50	32.71	4.51	34.41	44.09	46.90	74	-27.10	V	PK	Highest

Worse case	e mode:	802.11n(	HT20) (6.5	Mbps)	(2	(2)		(A)		
Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Premap Factor (dB)	Read Level (dBµV)	Level (dBµV/m)	Limit (dBµV/m)	Over Limit (dB)	Antenna Polaxis	Remark	Test channel
2390.00	32.53	4.28	34.39	44.98	47.40	74	-26.60	Н	PK	Lowest
2390.00	32.53	4.28	34.39	45.38	47.80	74	-26.20	V	PK	Lowest
2483.50	32.71	4.51	34.41	48.35	51.16	74	-22.84	Н	PK	Highest
2483.50	32.71	4.51	34.41	48.68	51.49	74	-22.51	V	PK	Highest

Worse case	e mode:	802.11n(	02.11n(HT40) (13.5Mbps)										
Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Premap Factor (dB)	Read Level (dBµV)	Level (dBµV/m)	Limit (dBµV/m)	Over Limit (dB)	Antenna Polaxis	Remark	Test channel			
2390.00	32.53	4.28	34.39	43.80	46.22	74	-27.78	Н	PK	Lowest			
2390.00	32.53	4.28	34.39	44.24	46.66	74	-27.34	V	PK	Lowest			
2483.50	32.71	4.51	34.41	45.18	47.99	74	-26.01	Н	PK	Highest			
2483.50	32.71	4.51	34.41	43.98	46.79	74	-27.21	V	PK	Highest			

#### Note:

1) Through Pre-scan charge+transmitter mode with all kind of modulation and data rate, find the 11Mbps of rate is the worst case of 802.11b; 6Mbpsof rate is the worst case of 802.11g; 6.5Mbps of rate is the worst case of 802.11n(HT20); 13.5Mbps of rate is the worst case of 802.11n(HT40), and then Only the worst case is recorded in the report.

2) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level =Receiver Reading - Correct Factor

Correct Factor = Preamplifier Factor-Antenna Factor-Cable Factor







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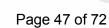
#### Report No. : EED32I00070502

#### Appendix I): Radiated Spurious Emissions **Receiver Setup:** Frequency Detector RBW VBW Remark 0.009MHz-0.090MHz Peak 10kHz 30kHz Peak 0.009MHz-0.090MHz Average 10kHz 30kHz Average 0.090MHz-0.110MHz Quasi-peak 10kHz 30kHz Quasi-peak 0.110MHz-0.490MHz Peak 10kHz 30kHz Peak 30kHz 0.110MHz-0.490MHz Average 10kHz Average 0.490MHz -30MHz Quasi-peak 10kHz 30kHz Quasi-peak 30MHz-1GHz Quasi-peak 120 kHz 300kHz Quasi-peak Peak 1MHz 3MHz Peak Above 1GHz Peak 1MHz 10Hz Average **Test Procedure:** Below 1GHz test procedure as below: The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a b. variable-height antenna tower. The antenna height is varied from one meter to four meters above the ground to determine the maximum value c. of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. d. 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 (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading. e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be f. 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, quasi-peak or average method as specified and then reported in a data sheet. Above 1GHz test procedure as below: Different between above is the test site, change from Semi- Anechoic Chamber to fully Anechoic Chamber and g. change form table 0.8 metre to 1.5 metre( Above 18GHz the distance is 1 meter and table is 1.5 metre).. Test the EUT in the lowest channel the middle channel, the Highest channel h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X i. axis positioning which it is worse case. Repeat above procedures until all frequencies measured was complete. Field strength Limit Measurement Limit: Frequency Remark (microvolt/meter) (dBuV/m) distance (m) 0.009MHz-0.490MHz 300 2400/F(kHz) -\_ 0.490MHz-1.705MHz 24000/F(kHz) 30 -30 1.705MHz-30MHz 30 30MHz-88MHz 40.0 3 100 Quasi-peak 3 88MHz-216MHz 150 43.5 Quasi-peak 3 216MHz-960MHz 200 46.0 Quasi-peak 960MHz-1GHz 500 54.0 3 Quasi-peak 500 3 Above 1GHz 54.0 Average Note: 15.35(b), Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device.

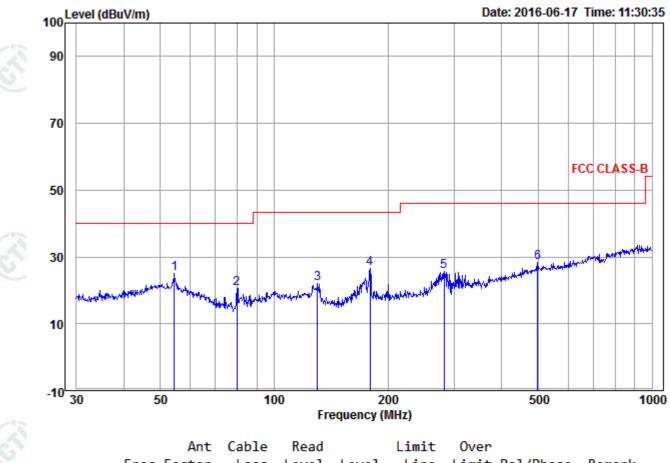
#### Hotline: 400-6788-333 www.cti-cert.com E-mail: info@cti-cert.com Complaint call: 0755-33681700 Complaint E-mail: complaint@cti-cert.com











	Freq	Factor	Loss	Level	Level	Line	Limit	Po1/Phase	Remark
	MHz	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1 p	p 54.452	14.49	1.41	9.12	25.02	40.00	-14.98	Horizontal	
2	79.800	8.63	1.57	10.48	20.68	40.00	-19.32	Horizontal	
3	130.379	10.91	1.58	9.72	22.21	43.50	-21.29	Horizontal	
4	179.386	10.88	1.97	13.83	26.68	43.50	-16.82	Horizontal	
5	281.995	13.13	2.37	10.32	25.82	46.00	-20.18	Horizontal	
6	497.677	18.34	3.12	7.04	28.50	46.00	-17.50	Horizontal	

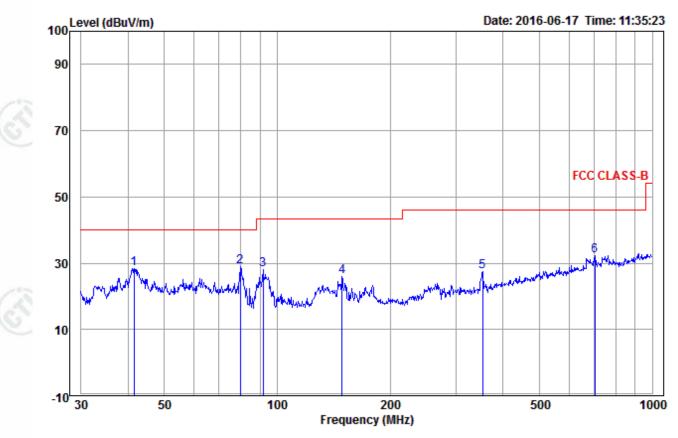








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	Freq		Cable Loss			Limit Line		Pol/Phase	Remark
-	MHz	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1	41.567	14.35	0.68	13.34	28.37	40.00	-11.63	Vertical	
2 pp	79.800	8.63	1.57	18.72	28.92	40.00	-11.08	Vertical	
3	91.816	11.58	1.59	14.77	27.94	43.50	-15.56	Vertical	
4	148.963	9.76	1.58	14.68	26.02	43.50	-17.48	Vertical	
5	352.943	14.89	2.72	9.91	27.52	46.00	-18.48	Vertical	
6	704.226	20.73	3.90	7.67	32.30	46.00	-13.70	Vertical	









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### Transmitter Emission above 1GHz

Test m	node:	802	11b	Test F	Test Frequency:		2412MHz				
Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBµV)	Level (dBµV/m)	Limit (dBµV/m)	Over Limit (dB)	Result	Antenna Polaxis		
1238.405	30.32	2.56	34.92	48.52	46.48	74	-27.52	Pass	H		
3786.010	32.95	5.47	34.58	46.96	50.80	74	-23.20	Pass	€₽∕		
4824.000	34.73	5.10	34.35	43.53	49.01	74	-24.99	Pass	Н		
5776.922	35.73	6.93	34.30	41.15	49.51	74	-24.49	Pass	Н		
7236.000	36.42	6.69	34.90	37.97	46.18	74	-27.82	Pass	Н		
9648.000	37.93	7.70	35.07	36.02	46.58	74	-27.42	Pass	Н		
1238.405	30.32	2.56	34.92	48.52	46.48	74	-27.52	Pass	V		
3786.010	32.95	5.47	34.58	46.96	50.80	74	-23.20	Pass	V		
4824.000	34.73	5.10	34.35	44.83	50.31	74	-23.69	Pass	V		
6331.329	36.07	7.10	34.51	41.19	49.85	74	-24.15	Pass	V		
7236.000	36.42	6.69	34.90	39.29	47.50	74	-26.50	Pass	V		
9648.000	37.93	7.70	35.07	37.02	47.58	74	-26.42	Pass	V		

	Test m	ode:	802	2.11b	Test F	requency:		2437M	Hz		
	Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBµV)	Level (dBµV/m)	Limit (dBµV/m)	Over Limit (dB)	Result	Antenna Polaxis	
2	1381.656	30.63	2.71	34.78	47.83	46.39	74	-27.61	Pass	H	
	2995.538	33.59	5.61	34.50	45.94	50.64	74	-23.36	Pass	SH/	
	4874.000	34.84	5.09	34.33	44.41	50.01	74	-23.99	Pass	Н	
	5776.922	35.73	6.93	34.30	42.08	50.44	74	-23.56	Pass	Н	
	7311.000	36.43	6.76	34.90	38.09	46.38	74	-27.62	Pass	Н	
	9748.000	38.03	7.61	35.05	37.35	47.94	74	-26.06	Pass	Н	
	1222.743	30.28	2.54	34.94	47.71	45.59	74	-28.41	Pass	V	
	3216.838	33.41	5.58	34.52	45.54	50.01	74	-23.99	Pass	V	
	4874.000	34.84	5.09	34.33	44.17	49.77	74	-24.23	Pass	V	
	6331.329	36.07	7.10	34.51	41.95	50.61	74	-23.39	Pass	V	
2	7311.000	36.43	6.76	34.90	40.06	48.35	74	-25.65	Pass	V	
Ī	9748.000	38.03	7.61	35.05	39.22	49.81	74	-24.19	Pass	V	









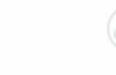




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Test m	ode:	802	2.11b	Test F	requency:		2462M	Hz	
Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBµV)	Level (dBµV/m)	Limit (dBµV/m)	Over Limit (dB)	Result	Antenna Polaxis
1306.407	30.47	2.63	34.85	47.30	45.55	74	-28.45	Pass	(AH)
2927.691	33.49	5.48	34.49	45.15	49.63	74	-24.37	Pass	ŴН
4924.000	34.94	5.07	34.32	44.07	49.76	74	-24.24	Pass	Н
6156.505	35.98	7.27	34.40	41.77	50.62	74	-23.38	Pass	н
7386.000	36.44	6.83	34.90	37.04	45.41	74	-28.59	Pass	н
9848.000	38.14	7.53	35.03	36.09	46.73	74	-27.27	Pass	Н
1464.963	30.80	2.79	34.70	47.63	46.52	74	-27.48	Pass	V
3120.061	33.49	5.60	34.51	45.22	49.80	74	-24.20	Pass	V
4924.000	34.94	5.07	34.32	44.93	50.62	74	-23.38	Pass	V
5762.235	35.72	6.90	34.30	41.50	49.82	74	-24.18	Pass	V
7386.000	36.44	6.83	34.90	38.17	46.54	74	-27.46	Pass	v
9848.000	38.14	7.53	35.03	35.33	45.97	74	-28.03	Pass	V

Test m	iode:	802	802.11g Test F		-requency:		2412N	1Hz	
Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBµV)	Level (dBµV/m)	Limit (dBµV/m)	Over Limit (dB)	Result	Antenna Polaxis
1381.656	30.63	2.71	34.78	48.10	46.66	74	-27.34	Pass	H
3033.908	33.57	5.61	34.50	45.09	49.77	74	-24.23	Pass	SH/
3757.208	32.97	5.48	34.58	44.54	48.41	74	-25.59	Pass	Н
4824.000	34.73	5.10	34.35	42.55	48.03	74	-25.97	Pass	Н
7236.000	36.42	6.69	34.90	37.53	45.74	74	-28.26	Pass	Н
9648.000	37.93	7.70	35.07	35.29	45.85	74	-28.15	Pass	Н
1851.542	31.48	3.12	34.40	46.70	46.90	74	-27.10	Pass	V
3128.013	33.48	5.59	34.51	45.74	50.30	74	-23.70	Pass	V
4824.000	34.73	5.10	34.35	42.52	48.00	74	-26.00	Pass	V
5850.919	35.79	7.10	34.30	42.02	50.61	74	-23.39	Pass	V
7236.000	36.42	6.69	34.90	38.40	46.61	74	-27.39	Pass	V
9648.000	37.93	7.70	35.07	35.65	46.21	74	-27.79	Pass	V













1									
Test m	iode:	802	2.11g	Test F	requency:		2437M	lHz	
Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBµV)	Level (dBµV/m)	Limit (dBµV/m)	Over Limit (dB)	Result	Antenna Polaxis
1280.072	30.41	2.61	34.88	48.19	46.33	74	-27.67	Pass	H
3026.195	33.58	5.61	34.50	46.02	50.71	74	-23.29	Pass	Ľн⁄
4181.159	33.26	5.36	34.54	42.90	46.98	74	-27.02	Pass	Н
4874.000	34.84	5.09	34.33	41.43	47.03	74	-26.97	Pass	Н
7311.000	36.43	6.76	34.90	37.77	46.06	74	-27.94	Pass	Н
9748.000	38.03	7.61	35.05	35.44	46.03	74	-27.97	Pass	Н
1884.829	31.53	3.15	34.38	47.33	47.63	74	-26.37	Pass	V
3225.037	33.40	5.57	34.53	45.13	49.57	74	-24.43	Pass	V
4874.000	34.84	5.09	34.33	42.19	47.79	74	-26.21	Pass	V
5257.662	35.32	5.70	34.30	42.47	49.19	74	-24.81	Pass	V
7311.000	36.43	6.76	34.90	36.97	45.26	74	-28.74	Pass	V
9748.000	38.03	7.61	35.05	35.57	46.16	74	-27.84	Pass	V

Test m	ode:	802.11g		Test F	Test Frequency:		2462MHz				
Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBµV)	Level (dBµV/m)	Limit (dBµV/m)	Over Limit (dB)	Result	Antenna Polaxis		
1381.656	30.63	2.71	34.78	47.06	45.62	74	-28.38	Pass	- H		
3072.770	33.53	5.61	34.51	44.38	49.01	74	-24.99	Pass	н		
3634.910	33.07	5.50	34.57	44.37	48.37	74	-25.63	Pass	Ч		
4924.000	34.94	5.07	34.32	40.79	46.48	74	-27.52	Pass	Н		
7386.000	36.44	6.83	34.90	37.98	46.35	74	-27.65	Pass	Н		
9848.000	38.14	7.53	35.03	36.89	47.53	74	-26.47	Pass	Н		
1581.218	31.02	2.90	34.61	45.91	45.22	74	-28.78	Pass	V		
3200.502	33.42	5.58	34.52	44.77	49.25	74	-24.75	Pass	V		
4924.000	34.94	5.07	34.32	41.33	47.02	74	-26.98	Pass	V		
6187.929	36.00	7.24	34.42	40.28	49.10	74	-24.90	Pass	V		
7386.000	36.44	6.83	34.90	37.05	45.42	74	-28.58	Pass	V		
9848.000	38.14	7.53	35.03	36.81	47.45	74	-26.55	Pass	V		













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Test mode:		802.11n(HT20)		Test Frequency:		2412MHz				
Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBµV)	Level (dBµV/m)	Limit (dBµV/m)	Over Limit (dB)	Result	Antenna Polaxis	
1435.431	30.74	2.77	34.73	47.40	46.18	74	-27.82	Pass	H	
3308.185	33.33	5.56	34.53	44.72	49.08	74	-24.92	Pass	SH/	
4824.000	34.73	5.10	34.35	41.44	46.92	74	-27.08	Pass	Н	
6187.929	36.00	7.24	34.42	41.60	50.42	74	-23.58	Pass	Н	
7236.000	36.42	6.69	34.90	38.32	46.53	74	-27.47	Pass	Н	
9648.000	37.93	7.70	35.07	35.35	45.91	74	-28.09	Pass	Н	
1201.149	30.23	2.52	34.96	46.84	44.63	74	-29.37	Pass	V	
3249.760	33.38	5.57	34.53	44.45	48.87	74	-25.13	Pass	V	
4824.000	34.73	5.10	34.35	41.45	46.93	74	-27.07	Pass	V	
5257.662	35.32	5.70	34.30	42.57	49.29	74	-24.71	Pass	V	
7236.000	36.42	6.69	34.90	36.83	45.04	74	-28.96	Pass	V	
9648.000	37.93	7.70	35.07	33.36	43.92	74	-30.08	Pass	V	

				( in )						
Test m	node:	802.11n(HT20)		Test Frequency:		2437MHz				
Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBµV)	Level (dBµV/m)	Limit (dBµV/m)	Over Limit (dB)	Result	Antenna Polaxis	
1293.173	30.44	2.62	34.87	47.53	45.72	74	-28.28	Pass	Н	
3160.026	33.46	5.59	34.52	44.82	49.35	74	-24.65	Pass	SH/	
4874.000	34.84	5.09	34.33	41.36	46.96	74	-27.04	Pass	Н	
6412.427	36.12	7.02	34.56	40.47	49.05	74	-24.95	Pass	Н	
7311.000	36.43	6.76	34.90	38.21	46.50	74	-27.50	Pass	Н	
9748.000	38.03	7.61	35.05	36.49	47.08	74	-26.92	Pass	Н	
1417.277	30.71	2.75	34.75	46.59	45.30	74	-28.70	Pass	V	
3120.061	33.49	5.60	34.51	44.76	49.34	74	-24.66	Pass	V	
4874.000	34.84	5.09	34.33	41.29	46.89	74	-27.11	Pass	V	
5806.408	35.76	7.00	34.30	41.58	50.04	74	-23.96	Pass	V	
7311.000	36.43	6.76	34.90	38.23	46.52	74	-27.48	Pass	V	
9748.000	38.03	7.61	35.05	35.49	46.08	74	-27.92	Pass	V	













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Test mode:		802.11n(HT20)		Test Frequency:		2462MHz				
Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBµV)	Level (dBµV/m)	Limit (dBµV/m)	Over Limit (dB)	Result	Antenna Polaxis	
1585.248	31.03	2.90	34.60	46.52	45.85	74	-28.15	Pass	Н	
3598.087	33.09	5.51	34.56	44.75	48.79	74	-25.21	Pass	SH/	
4924.000	34.94	5.07	34.32	41.65	47.34	74	-26.66	Pass	Н	
5806.408	35.76	7.00	34.30	40.73	49.19	74	-24.81	Pass	Н	
7386.000	36.44	6.83	34.90	36.91	45.28	74	-28.72	Pass	Н	
9848.000	38.14	7.53	35.03	35.30	45.94	74	-28.06	Pass	Н	
1904.119	31.56	3.16	34.36	46.55	46.91	74	-27.09	Pass	V	
3049.394	33.55	5.61	34.51	45.76	50.41	74	-23.59	Pass	V	
3738.129	32.99	5.48	34.58	44.48	48.37	74	-25.63	Pass	V	
4924.000	34.94	5.07	34.32	42.15	47.84	74	-26.16	Pass	V	
7386.000	36.44	6.83	34.90	35.76	44.13	74	-29.87	Pass	V	
9848.000	38.14	7.53	35.03	34.75	45.39	74	-28.61	Pass	V	

Test n	node:	802.11n(HT40)		Test	Test Frequency:		2422MHz				
Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBµV)	Level (dBµV/m)	Limit (dBµV/m)	Over Limit (dB)	Result	Antenna Polaxis		
1118.517	30.02	2.42	35.05	47.84	45.23	74	-28.77	Pass	H		
3041.641	33.56	5.61	34.50	45.02	49.69	74	-24.31	Pass	SH/		
3634.910	33.07	5.50	34.57	45.12	49.12	74	-24.88	Pass	Н		
4844.000	34.77	5.10	34.34	40.94	46.47	74	-27.53	Pass	Н		
7266.000	36.43	6.72	34.90	38.94	47.19	74	-26.81	Pass	Н		
9688.000	37.97	7.66	35.06	36.33	46.90	74	-27.10	Pass	Н		
1768.619	31.35	3.06	34.46	49.61	49.56	74	-24.44	Pass	V		
3233.257	33.39	5.57	34.53	45.22	49.65	74	-24.35	Pass	V		
4844.000	34.77	5.10	34.34	41.18	46.71	74	-27.29	Pass	V		
5880.782	35.81	7.17	34.30	40.30	48.98	74	-25.02	Pass	V		
7266.000	36.43	6.72	34.90	37.76	46.01	74	-27.99	Pass	V		
9688.000	37.97	7.66	35.06	35.79	46.36	74	-27.64	Pass	V		













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Test m	ode:	802.11n(HT40)		Test Frequency:		2437MHz				
Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBµV)	Level (dBµV/m)	Limit (dBµV/m)	Over Limit (dB)	Result	Antenna Polaxis	
1378.143	30.63	2.71	34.78	47.19	45.75	74	-28.25	Pass	Н	
3266.346	33.36	5.57	34.53	44.82	49.22	74	-24.78	Pass	CH)	
4874.000	34.84	5.09	34.33	40.64	46.24	74	-27.76	Pass	H	
5762.235	35.72	6.90	34.30	41.22	49.54	74	-24.46	Pass	Н	
7311.000	36.43	6.76	34.90	37.27	45.56	74	-28.44	Pass	Н	
9748.000	38.03	7.61	35.05	36.18	46.77	74	-27.23	Pass	Н	
1889.633	31.54	3.15	34.37	47.18	47.50	74	-26.50	Pass	V	
3728.625	33.00	5.48	34.58	45.21	49.11	74	-24.89	Pass	V	
4874.000	34.84	5.09	34.33	41.25	46.85	74	-27.15	Pass	V	
5806.408	35.76	7.00	34.30	41.42	49.88	74	-24.12	Pass	V	
7311.000	36.43	6.76	34.90	38.10	46.39	74	-27.61	Pass	V	
9748.000	38.03	7.61	35.05	36.14	46.73	74	-27.27	Pass	V	

Test mode: 802.11n(HT40)			n(HT40)	Test F	requency:	2452MHz				
Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBµV)	Level (dBµV/m)	Limit (dBµV/m)	Over Limit (dB)	Result	Antenna Polaxis	
1378.143	30.63	2.71	34.78	46.38	44.94	74	-29.06	Pass	Н	
2890.665	33.43	5.40	34.48	45.51	49.86	74	-24.14	Pass	Н	
4223.950	33.36	5.34	34.53	44.39	48.56	74	-25.44	Pass	CH)	
4904.000	34.90	5.07	34.33	42.30	47.94	74	-26.06	Pass	Н	
7356.000	36.44	6.80	34.90	36.05	44.39	74	-29.61	Pass	Н	
9808.000	38.10	7.56	35.04	36.22	46.84	74	-27.16	Pass	Н	
1395.796	30.66	2.73	34.77	46.46	45.08	74	-28.92	Pass	V	
3728.625	33.00	5.48	34.58	44.27	48.17	74	-25.83	Pass	V	
4904.000	34.90	5.07	34.33	41.44	47.08	74	-26.92	Pass	V	
6347.466	36.08	7.08	34.52	40.79	49.43	74	-24.57	Pass	V	
7356.000	36.44	6.80	34.90	34.50	42.84	74	-31.16	Pass	V	
9808.000	38.10	7.56	35.04	34.30	44.92	74	-29.08	Pass	V	

Note:

1) Through Pre-scan charge+transmitter mode with all kind of modulation and data rate, find the 11Mbps of rate is the worst case of 802.11b; 6Mbpsof rate is the worst case of 802.11g; 6.5Mbps of rate is the worst case of 802.11n(HT20); 13.5Mbps of rate is the worst case of 802.11n(HT40), and then Only the worst case is recorded in the report.

2) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level =Receiver Reading - Correct Factor

Correct Factor = Preamplifier Factor – Antenna Factor – Cable Factor

3) Scan from 9kHz to 25GHz, the disturbance above 13GHz and below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the above harmonics had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.

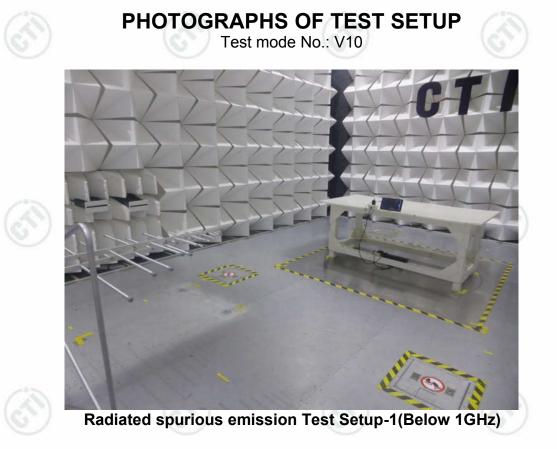


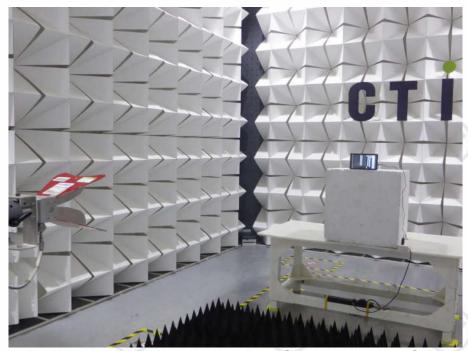




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Report No. : EED32I00070502





Radiated spurious emission Test Setup-2(Above 1GHz)





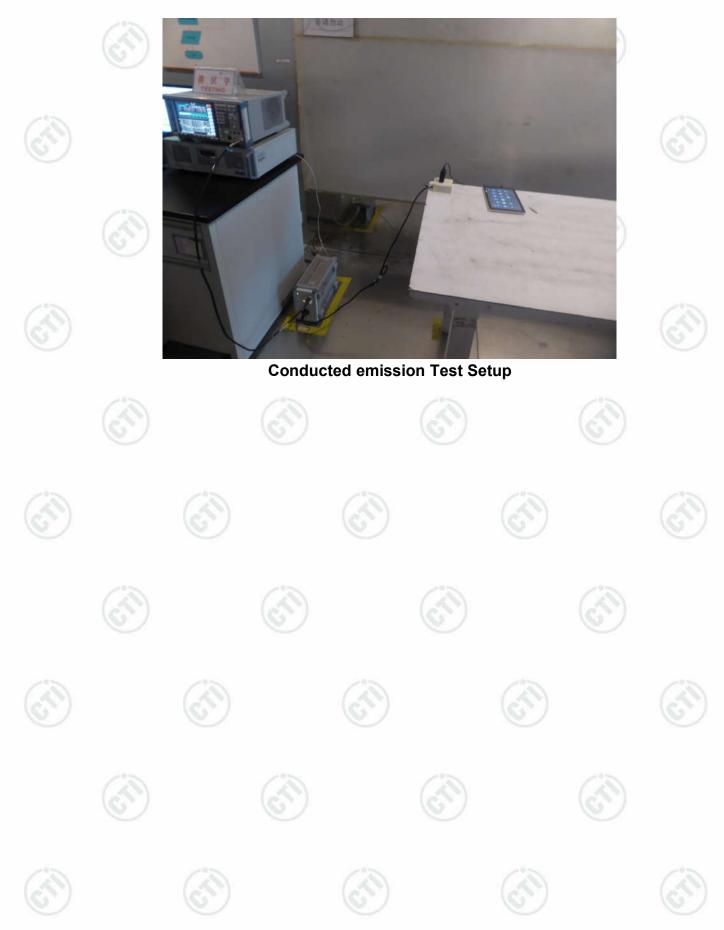






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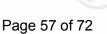
Report No. : EED32I00070502























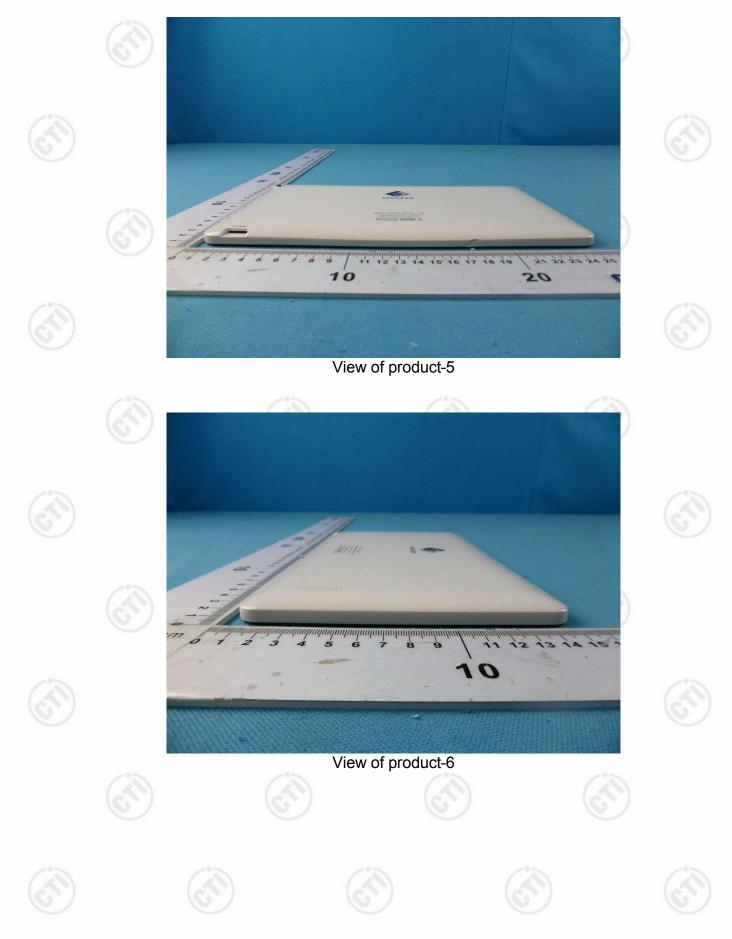






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### Report No. : EED32I00070502



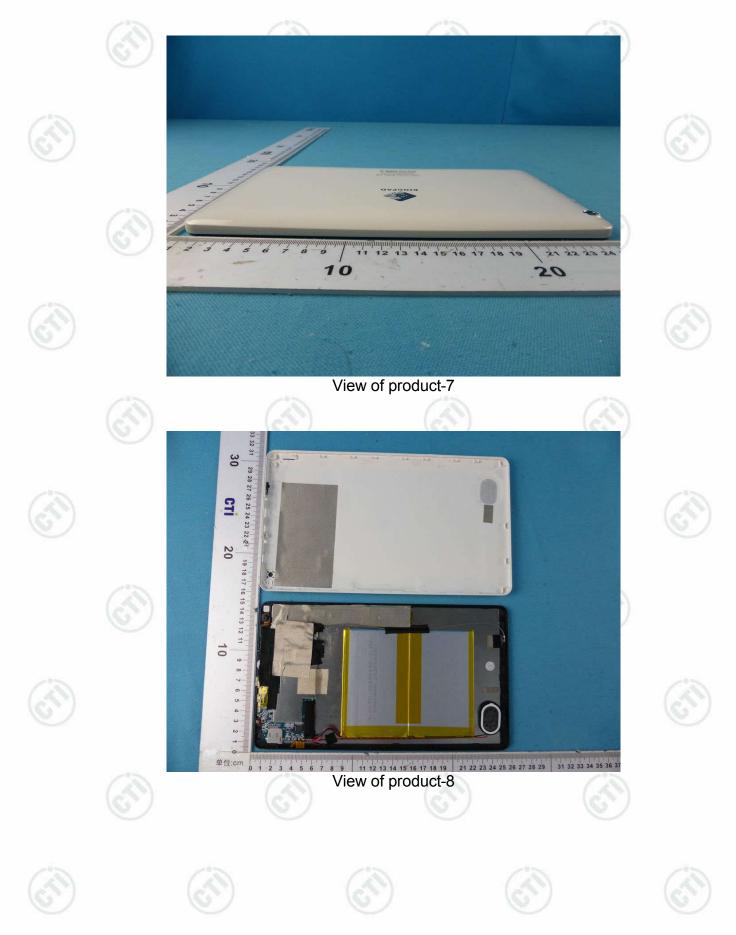
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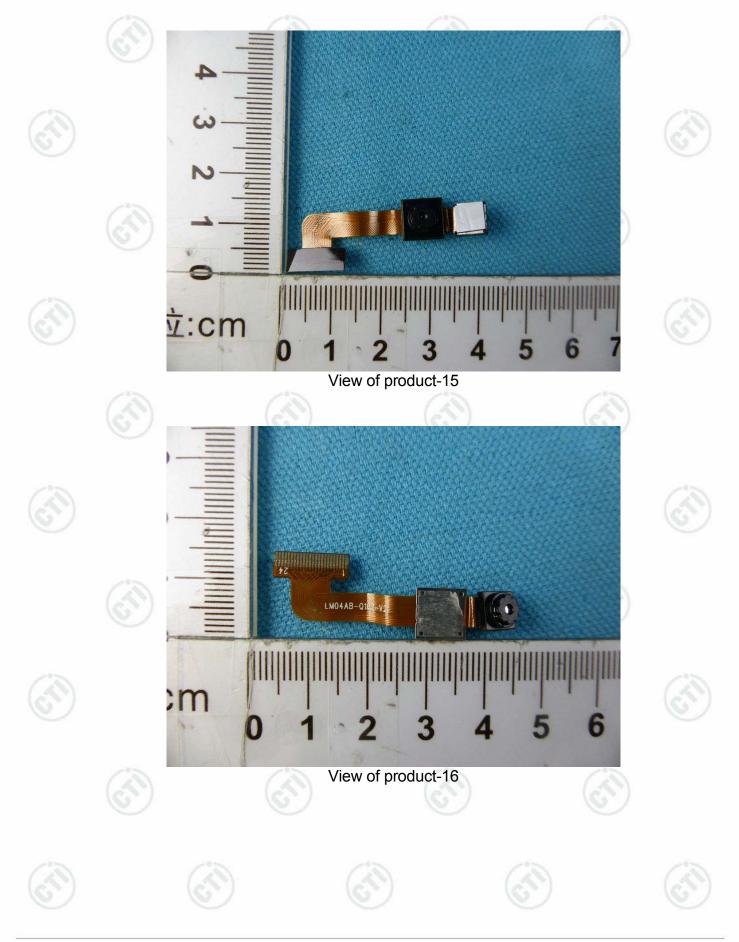








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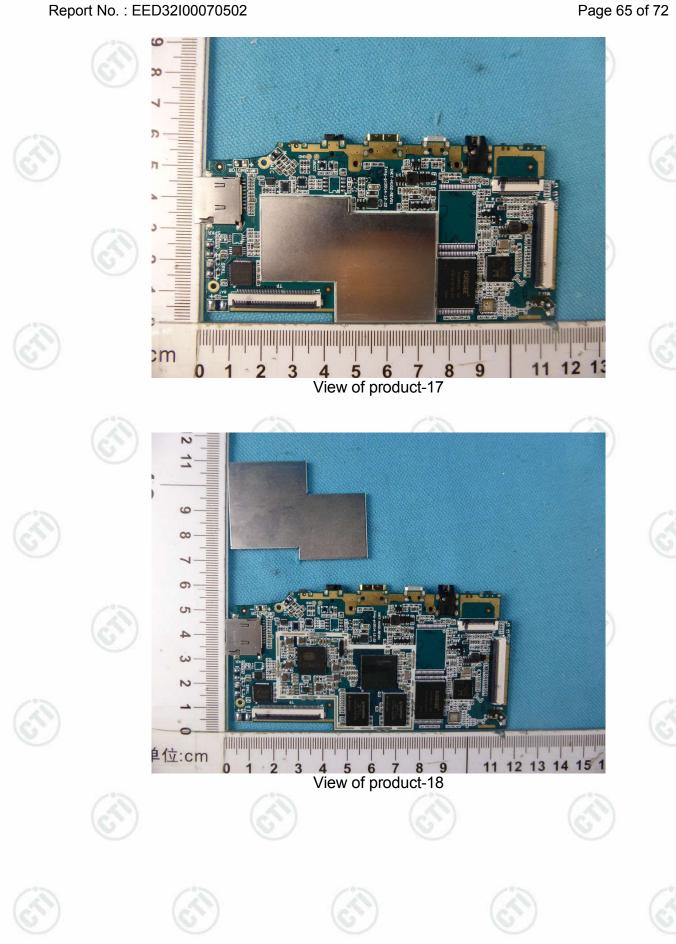








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## Report No. : EED32I00070502 S 14 13 12 11 9 00 1 6 CT N w 0 0 1 2 3 4 5 6 7 8 9 11 12 13 14 15 16 17 18 19 21 22 23 位:cm 21 22 23 2 0 20 10 View of product-25 MODEL: WTA0502000USB2 INPUT: AC100-240V 50/60Hz 0.3A OUTPUT: DC5.0V c(UL)us View of product-26

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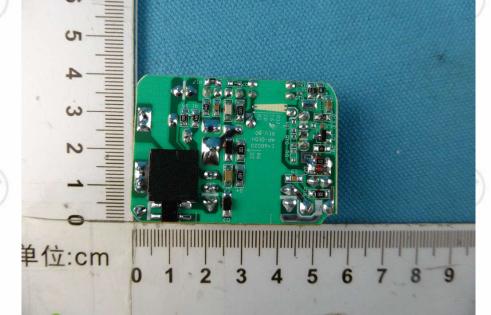






 Report No.: EED32100070502
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 Image: Constraint of the second secon



View of product-32

\*\*\* End of Report \*\*\*

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