

FCC RADIO TEST REPORT-BT 4.0 FCC ID:2ADNM-ET-802

Product: TABLET PC

Trade Name: Track

Model Name: ET-802

ET-801,ET-803,ET-804,ET-805,ET-806,ET-807,

Serial Model: ET-808,ET-809,ET-8100,ET-8101,ET-8102,

ET-8103, ET-8104, ET-8105

Report No.: NTEK-2014NT11071942F3

Prepared for

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TEST RESULT CERTIFICATION

Applicant's name	EAST QUANTU	M CO.,LIMITED
Address	•	TongAn Logistics Park, HangKong Road, SanWei, aoan District, Shenzhen, Guangdong, China
Manufacture's Name	EAST QUANTU	M CO.,LIMITED
Address	•	TongAn Logistics Park, HangKong Road, SanWei, aoan District, Shenzhen, Guangdong, China
Product description		
Product name	. TABLET PC	
Model and/or type reference	ET-802	
Serial Model	ET-801,ET-803,E	ET-804,ET-805,ET-806,ET-807,ET-808,ET-809, 01,ET-8102,ET-8103,ET-8104,ET-8105
Standards	FCC Part15.247	': 01 Oct. 2013
Test procedure	. ANSI C63.4-200	03 and KDB 558074: June 5, 2014
	EUT) is in complia	ested by NTEK, and the test results show that the ince with the FCC requirements. And it is applicable only ort.
document may be altered the document.	ed or revised by N	pt in full, without the written approval of NTEK, this ITEK, personal only, and shall be noted in the revision of
Date of Test		07.11 00.44 40.11 00.44
		07 Nov. 2014 ~18 Nov. 2014
Date of Issue		
Test Result	:	Pass
Testino	g Engineer :	Kyle Xu
		(Kyle Xu)
Techni	ical Manager :	Brown Ln
		(Brown Lu)
Author	rized Signatory :	(Bill Yao)



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1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

FCC Part15 (15.247) , Subpart C				
Standard Section	Test Item	Judgment	Remark	
15.207	Conducted Emission	PASS		
15.247 (a)(2)	6dB Bandwidth	PASS		
15.247 (b)	Peak Output Power	PASS		
15.247 (c)	Radiated Spurious Emission	PASS		
15.247 (d)	Power Spectral Density	PASS		
15.205	Band Edge Emission	PASS		
15.203	Antenna Requirement	PASS		

NOTE:

(1)" N/A" denotes test is not applicable in this Test Report



1.1 TEST FACILITY

NTEK Testing Technology Co., Ltd

Add.:1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street, Bao'an District, Shenzhen P.R. China.

Report No.: NTEK-2014NT11071942F3

FCC Registration No.:238937; IC Registration No.:9270A-1

CNAS Registration No.:L5516

1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $\mathbf{y} \pm \mathbf{U}$, where expended uncertainty \mathbf{U} is based on a standard uncertainty multiplied by a coverage factor of $\mathbf{k=2}$, providing a level of confidence of approximately 95 % $^{\circ}$

No.	Item	Uncertainty
1	Conducted Emission Test	±1.38dB
2	RF power,conducted	±0.16dB
3	Spurious emissions,conducted	±0.21dB
4	All emissions,radiated(<1G)	±4.68dB
5	All emissions,radiated(>1G)	±4.89dB
6	Temperature	±0.5°C
7	Humidity	±2%



2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Equipment	TABLET PC		
Trade Name	irack		
Model Name	ET-802		
Serial Model	ET-801,ET-803,ET-804,ET-805,ET-806,ET-807,ET-808, ET-809,ET-8100,ET-8101,ET-8102,ET-8103,ET-8104, ET-8105		
Model Difference	All the model are the	same circuit and RF module,	
Model Difference	except the model nan	ne and colour.	
	The EUT is a TABLE	T PC	
	Operation Frequency:	2402~2480MHz	
	Modulation Type:	GFSK	
	Number Of Channel	40CH	
	Antenna	Please see Note 3.	
Duode et Doorwinting	Designation:		
Product Description	Output	-3.28dBm(MAX)	
	Power(Conducted):	1 0dD:	
	Antenna Gain (dBi)	1.0dBi	
	Based on the application, features, or specification exhibited in User's Manual, the EUT is considered as an ITE/Computing Device. More details of EUT technical specification, please refer to the User's Manual.		
Channel List	Please refer to the Note 2.		
Ratings	DC 3.7V		
Adapter	Model:JHD-AD012V-050200AB Input: 100-240V,50/60 Hz,0.35A Output: 5.0V===, 2000mA		
Battery	DC 3.7V , 3200mAh		
Connecting I/O Port(s)	Please refer to the User's Manual		

Note

1. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.



2.

Channel	Frequency (MHz)
00	2402
01	2404
•••••	
•••••	·····.
•••	•••
38	2478
39	2480

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3

Table for Filed Antenna

Ant	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	NOTE
Α	N/A	N/A	FPCB Antenna	N/A	1.0	BT Antenna



2.2 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Pretest Mode	Description
Mode 1	CH00
Mode 2	CH19
Mode 3	CH39
Mode 4	Link Mode

For Conducted Emission		
Final Test Mode	Description	
Mode 4	Link Mode	

For Radiated Emission		
Final Test Mode	Description	
Mode 1	CH00	
Mode 2	CH19	
Mode 3	CH39	
Mode 4	Link Mode	

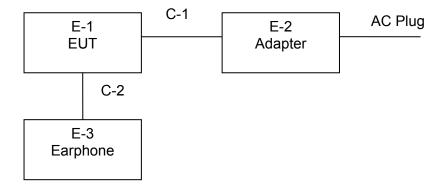
Note:

- (1) The measurements are performed at the highest, middle, lowest available channels.
- (2) The measurements are performed at all Bit Rate of Transmitter, the worst data was reported



2.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

Conducted Emission Test



Radiated Spurious Emission Test

E-1 EUT



2.4 DESCRIPTION OF SUPPORT UNITS(CONDUCTED MODE)

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Brand	Model/Type No.	Series No.	Note
E-1	TABLET PC	irack K	ET-802	N/A	EUT
E-2	Adapter	N/A	JHD-AD012V-050200AB	N/A	
E-3	Earphone	N/A	2688	N/A	

Item	Shielded Type	Ferrite Core	Length	Note
C-1	NO	NO	1.2m	
C-2	NO	NO	1.0m	

Note:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in <code>[Length]</code> column.



2.5 EQUIPMENTS LIST FOR ALL TEST ITEMS

Radiation Test equipment

Raule	Radiation rest equipment								
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibratio n period		
1	Spectrum Analyzer	Agilent	E4407B	MY4510804 0	2014.07.06	2015.07.05	1 year		
2	Test Receiver	R&S	ESPI	101318	2014.06.07	2015.06.06	1 year		
3	Bilog Antenna	TESEQ	CBL6111D	31216	2014.07.06	2015.07.05	1 year		
4	50Ω Coaxial Switch	Anritsu	MP59B	620026441 6	2014.06.07	2015.06.06	1 year		
5	Spectrum Analyzer	ADVANTEST	R3132	150900201	2014.06.07	2015.06.06	1 year		
6	Horn Antenna	EM	EM-AH-101 80	2011071402	2014.07.06	2015.07.05	1 year		
7	Horn Ant	Schwarzbeck	BBHA 9170	9170-181	2014.07.06	2015.07.05	1 year		
8	Amplifier	EM	EM-30180	060538	2013.12.22	2014.12.21	1 year		
9	Loop Antenna	ARA	PLA-1030/B	1029	2014.06.08	2015.06.07	1 year		
10	Power Meter	R&S	NRVS	100696	2014.07.06	2015.07.05	1 year		
11	Power Sensor	R&S	URV5-Z4	0395.1619. 05	2014.07.06	2015.07.05	1 year		

Conduction Test equipment

00110	Conduction rest equipment								
Item	Kind of Equipment	Manufactu rer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period		
1	Test Receiver	R&S	ESCI	101160	2014.06.06	2015.06.05	1 year		
2	LISN	R&S	ENV216	101313	2014.08.24	2015.08.23	1 year		
3	LISN	EMCO	3816/2	00042990	2014.08.24	2015.08.23	1 year		
4	50Ω Coaxial Switch	Anritsu	MP59B	6200264417	2014.06.07	2015.06.06	1 year		
5	Passive Voltage Probe	R&S	ESH2-Z3	100196	2014.06.07	2015.06.06	1 year		
6	Absorbing clamp	R&S	MOS-21	100423	2014.06.08	2015.06.07	1 year		

1	Attenuation	MCE	24-10-34	BN9258	2014.06.08	2015.06.07	1 year
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3. EMC EMISSION TEST

3.1 CONDUCTED EMISSION MEASUREMENT

3.1.1 POWER LINE CONDUCTED EMISSION Limits (Frequency Range 150KHz-30MHz)

	Class A (dBuV)		Class B	Standard	
FREQUENCY (MHz)	Quasi-peak	Average	Quasi-peak	Average	Statiualu
0.15 -0.5	79.00	66.00	66 - 56 *	56 - 46 *	CISPR
0.50 -5.0	73.00	60.00	56.00	46.00	CISPR
5.0 -30.0	73.00	60.00	60.00	50.00	CISPR

0.15 -0.5	79.00	66.00	66 - 56 *	56 - 46 *	FCC
0.50 -5.0	73.00	60.00	56.00	46.00	FCC
5.0 -30.0	73.00	60.00	60.00	50.00	FCC

Note:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

The following table is the setting of the receiver

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz



3.1.2 TEST PROCEDURE

- a. The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- d. LISN at least 80 cm from nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item –EUT Test Photos.

3.1.3 DEVIATION FROM TEST STANDARD

No deviation

3.1.4 TEST SETUP



Note: 1.Support units were connected to second LISN.

2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

3.1.5 EUT OPERATING CONDITIONS

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.



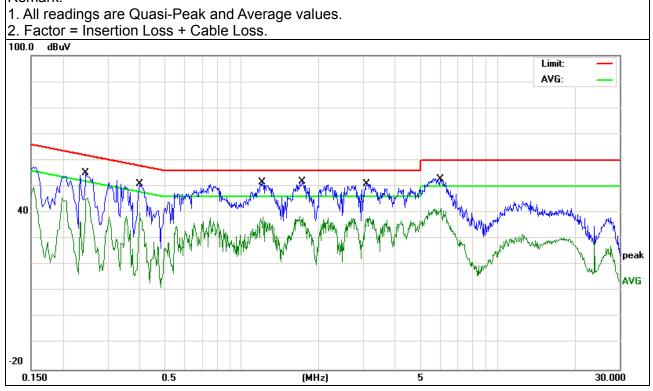
3.1.6 TEST RESULTS

EUT:	TABLET PC	Model Name. :	ET-802
Temperature:	26 ℃	Relative Humidity:	56%
Pressure:	1010hPa	Phase :	L
TASI VOHADA .	DC 5.0V form Adapter AC 120V/60Hz	Test Mode:	Mode 4

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Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	
0.2459	45.67	9.49	55.16	61.89	-6.73	QP
0.2459	35.99	9.49	45.48	51.89	-6.41	AVG
0.3980	41.55	9.50	51.05	57.89	-6.84	QP
0.3980	30.43	9.50	39.93	47.89	-7.96	AVG
1.2016	41.89	9.53	51.42	56.00	-4.58	QP
1.2016	28.77	9.53	38.30	46.00	-7.70	AVG
1.7177	42.23	9.54	51.77	56.00	-4.23	QP
1.7177	29.08	9.54	38.62	46.00	-7.38	AVG
3.0899	41.52	9.57	51.09	56.00	-4.91	QP
3.0899	28.84	9.57	38.41	46.00	-7.59	AVG
6.0057	43.38	9.64	53.02	60.00	-6.98	QP
6.0057	31.92	9.64	41.56	50.00	-8.44	AVG

Remark:



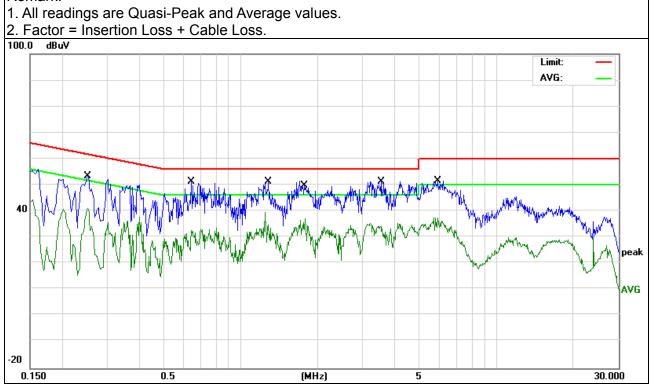


	-		
EUT:	TABLET PC	Model Name. :	ET-802
Temperature:	26 ℃	Relative Humidity:	56%
Pressure:	1010hPa	Phase :	N
Test vollage .	DC 5.0V form Adapter AC 120V/60Hz	Test Mode :	Mode 4

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Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	
0.2519	43.69	9.51	53.20	61.69	-8.49	QP
0.2519	31.40	9.51	40.91	51.69	-10.78	AVG
0.6419	41.87	9.53	51.40	56.00	-4.60	QP
0.6419	23.94	9.53	33.47	46.00	-12.53	AVG
1.2860	41.69	9.56	51.25	56.00	-4.75	QP
1.2860	30.00	9.56	39.56	46.00	-6.44	AVG
1.7860	42.09	9.57	51.66	56.00	-4.34	QP
1.7860	27.70	9.57	37.27	46.00	-8.73	AVG
3.5379	41.75	9.59	51.34	56.00	-4.66	QP
3.5379	25.68	9.59	35.27	46.00	-10.73	AVG
5.8778	42.00	9.63	51.63	60.00	-8.37	QP
5.8778	27.84	9.63	37.47	50.00	-12.53	AVG

Remark:





3.2 RADIATED EMISSION MEASUREMENT

3.2.1 RADIATED EMISSION LIMITS (Frequency Range 9kHz-1000MHz)

20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

Frequencies	Field Strength	Measurement Distance		
(MHz)	(micorvolts/meter)	(meters)		
0.009~0.490	2400/F(KHz)	300		
0.490~1.705	24000/F(KHz)	30		
1.705~30.0	30	30		
30~88	100	3		
88~216	150	3		
216~960	200	3		
Above 960	500	3		

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

FREQUENCY (MHz)	Class B (dBuV/m) (at 3M)		
	PEAK	AVERAGE	
Above 1000	74	54	

Notes:

- (1) The limit for radiated test was performed according to FCC PART 15C.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

Spectrum Parameter	Setting		
Attenuation	Auto		
Start Frequency	1000 MHz		
Stop Frequency	10th carrier harmonic		
RB / VB (emission in restricted	1 MHz / 1 MHz for Dook, 1 MHz / 10Hz for Average		
band)	1 MHz / 1 MHz for Peak, 1 MHz / 10Hz for Average		

Receiver Parameter	Setting		
Attenuation	Auto		
Start ~ Stop Frequency	9kHz~150kHz / RB 200Hz for QP		
Start ~ Stop Frequency	150kHz~30MHz / RB 9kHz for QP		
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP		



3.2.2 TEST PROCEDURE

a. The measuring distance of at 3 m shall be used for measurements at frequency up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.

- b. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter test site. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The height of the equipment or of the substitution antenna shall be 0.8 m; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- e. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- f. For the actual test configuration, please refer to the related Item –EUT Test Photos. Note:

Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported

During the radiated emission test, the Spectrum Analyzer was set with the following configurations:

Frequency Band (MHz)	Function	Resolution bandwidth	Video Bandwidth	
30 to 1000	QP	120 kHz	300 kHz	
	Peak	1 MHz	1 MHz	
Above 1000	Peak	1 MHz	10 Hz	

3.2.3 DEVIATION FROM TEST STANDARD

No deviation



3.2.4 TEST SETUP

(A) Radiated Emission Test-Up Frequency Below 30MHz

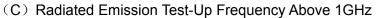
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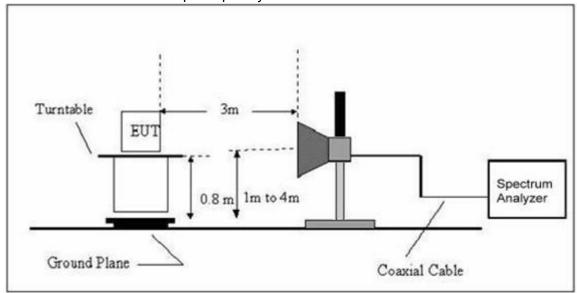


(B) Radiated Emission Test-Up Frequency 30MHz~1GHz









3.2.5 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.



3.2.6 TEST RESULTS (BETWEEN 9KHZ - 30 MHZ)

EUT:	TABLET PC	Model Name. :	ET-802
Temperature:	20 ℃	Relative Humidtity:	48%
Pressure:	1010 hPa	Test Voltage :	DC 3.7V
Test Mode:	TX	Polarization :	

Report No.: NTEK-2014NT11071942F3

Freq.	Reading	Limit	Margin	State
(MHz)	(dBuV/m)	(dBuV/m)	(dB)	P/F
				N/A
		1		N/A

NOTE:

The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

Distance extrapolation factor =40 log (specific distance/test distance)(dB);

Limit line = specific limits(dBuv) + distance extrapolation factor.



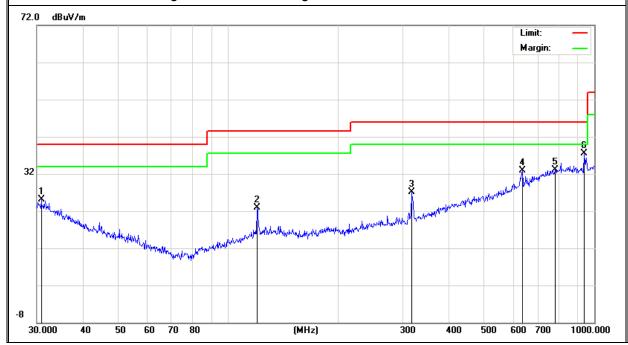
3.2.7 TEST RESULTS (BETWEEN 30MHZ - 1GHZ)

EUT:	TABLET PC	Model Name :	ET-802
Temperature :	20 ℃	Relative Humidity:	48%
Pressure:	1010 hPa	Test Voltage:	DC 3.7V
Test Mode:	TX		

Polar	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(H/V)	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	T.C.I.I.G.I.K
V	30.8535	6.10	18.97	25.07	40.0	-14.93	QP
V	119.8555	10.83	12.07	22.90	43.5	-20.60	QP
V	316.5889	12.17	14.85	27.02	46.0	-18.98	QP
V	636.1340	9.77	23.13	32.90	46.0	-13.10	QP
V	782.3451	6.16	26.95	33.11	46.0	-12.89	QP
V	938.8324	10.25	27.25	37.50	46.0	-8.50	QP

Remark:

Absolute Level= ReadingLevel+ Factor, Margin= Absolute Level - Limit



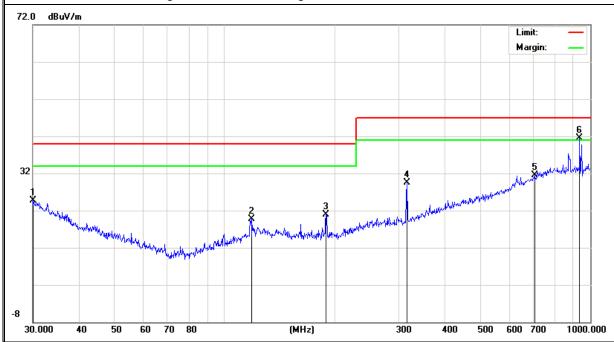


Polar	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(H/V)	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Н	30.1051	5.31	19.37	24.68	40	-15.32	QP
Н	118.6012	7.90	11.80	19.70	40	-20.30	QP
Н	189.7384	10.20	10.70	20.90	40	-19.10	QP
Н	315.4807	14.70	14.80	29.50	47	-17.50	QP
Н	704.2259	6.50	24.91	31.41	47	-15.59	QP
Н	935.5461	14.35	27.23	41.58	47	-5.42	QP

Remark:

Absolute Level= ReadingLevel+ Factor, Margin= Absolute Level - Limit

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3.2.8 TEST RESULTS (ABOVE 1000 MHZ)

EUT:	TABLET PC	Model Name :	ET-802
Temperature :	20 ℃	Relative Humidity:	48%
Pressure:	1010 hPa	Test Voltage:	DC 3.7V
Test Mode:	TX		

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Frequency (MHz)	Reading (dBµV)	Factor (dB)	Corrected Amplitude (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Remark	Polar (H/V)		
Low Channel (2402 MHz)-Above 1G									
4804.000 60.79 -3.64 57.15 74 -16.85 Pk Vertical									
4804.000	47.83	-3.64	44.19	54	-9.81	AV	Vertical		
7206.000	58.52	-0.95	57.57	74	-16.43	Pk	Vertical		
7206.000	46.61	-0.95	45.66	54	-8.34	AV	Vertical		
4804.000	65.05	-3.64	61.41	74	-12.59	Pk	Horizontal		
4804.000	51.52	-3.64	47.88	54	-6.12	AV	Horizontal		
7206.000	57.72	-0.95	56.77	74	-17.23	Pk	Horizontal		
7206.000	47.46	-0.95	46.51	54	-7.49	AV	Horizontal		
		Mid Cha	nnel (2440 MHz	z)-Above 1G					
4880.000	62.67	-3.67	59.00	74	-15.00	Pk	Vertical		
4880.000	48.13	-3.67	44.46	54	-9.54	AV	Vertical		
7320.000	54.71	-0.82	53.89	74	-20.11	Pk	Vertical		
7320.000	42.13	-0.82	41.31	54	-12.69	AV	Vertical		
4880.000	65.12	-3.67	61.45	74	-12.55	Pk	Horizontal		
4880.000	45.52	-3.67	41.85	54	-12.15	AV	Horizontal		
7320.000	58.13	-0.82	57.31	74	-16.69	Pk	Horizontal		
7320.000	47.46	-0.82	46.64	54	-7.36	AV	Horizontal		
		High Cha	nnel (2480MHz	z)- Above 10	;	•			
4960.000	58.33	-3.59	54.74	74	-19.26	Pk	Vertical		
4960.000	46.14	-3.59	42.55	54	-11.45	AV	Vertical		
7440.000	55.42	-0.68	54.74	74	-19.26	Pk	Vertical		
7440.000	44.41	-0.68	43.73	54	-10.27	AV	Vertical		
4960.000	62.41	-3.59	58.82	74	-15.18	Pk	Horizontal		
4960.000	47.23	-3.59	43.64	54	-10.36	AV	Horizontal		
7440.000	58.13	-0.68	57.45	74	-16.55	Pk	Horizontal		
7440.000	45.45	-0.68	44.77	54	-9.23	AV	Horizontal		
Pemark:									

Remark:

Absolute Level= ReadingLevel+ Factor, Margin= Absolute Level - Limit



4. POWER SPECTRAL DENSITY TEST

4.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Frequency Range (MHz)	Result	
15.247	Power Spectral Density	8 dBm (in any 3KHz)	2400-2483.5	PASS

4.1.1 TEST PROCEDURE

- 1. Set analyzer center frequency to DTS channel center frequency.
- 2. Set the span to 1.5 times the DTS channel bandwidth.
- 3. 3 kHz ≤Set the RBW≤100 kHz.
- 4. Set the VBW \geq 3 x RBW.
- 5. Detector = peak.
- 6. Sweep time = auto couple.
- 7. Trace mode = max hold.
- 8. Allow trace to fully stabilize.
- 9. Use the peak marker function to determine the maximum amplitude level within the RBW.
- 10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

4.1.2 DEVIATION FROM STANDARD

No deviation.

4.1.3 TEST SETUP



4.1.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.1 Unless otherwise a special operating condition is specified in the follows during the testing.

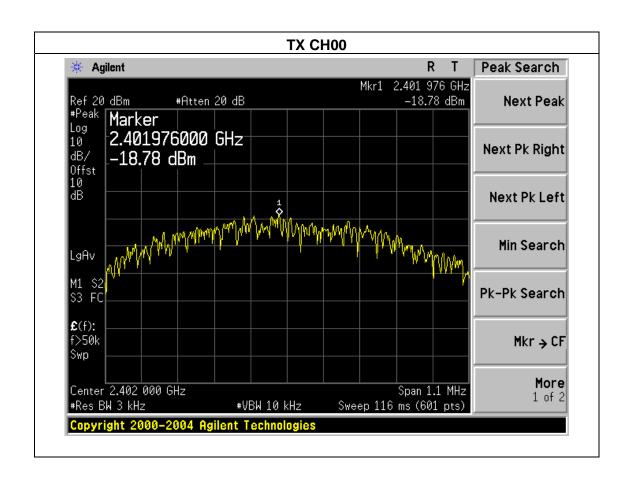


4.1.5 TEST RESULTS

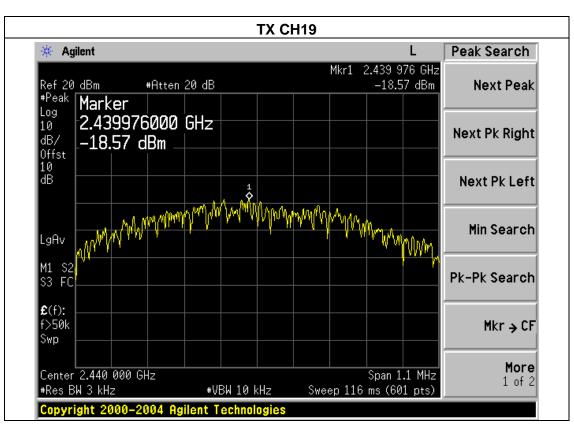
EUT:	TABLET PC	Model Name :	ET-802
Temperature:	25 ℃	Relative Humidity:	56%
Pressure :	1015 hPa	Test Voltage :	DC 3.7V
Test Mode :	TX Mode /CH00, CH19, CH39		

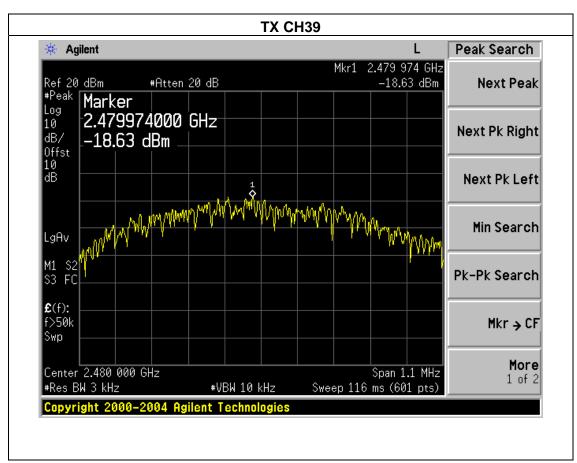
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Frequency	Power Density (dBm)	Limit (dBm)	Result
2402 MHz	-18.78	8	PASS
2440 MHz	-18.57	8	PASS
2480 MHz	-18.63	8	PASS











5. BANDWIDTH TEST

5.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C				
Section	Frequency Range (MHz)	Result		
15.247(a)(2)	Bandwidth	>= 500KHz (6dB bandwidth)	2400-2483.5	PASS

5.1.1 TEST PROCEDURE

- 1. Set RBW = 100 kHz.
- 2. Set the video bandwidth (VBW) \geq 3 x RBW.
- 3. Detector = Peak.
- 4. Trace mode = max hold.
- 5. Sweep = auto couple.
- 6. Allow the trace to stabilize.
- 7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

TEST SETUP



5.1.2 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

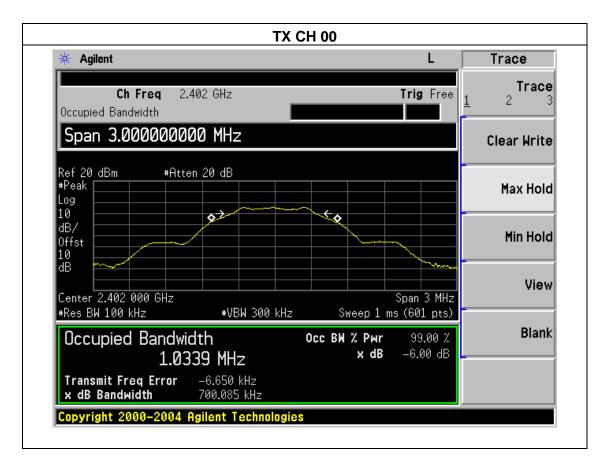


5.1.3 TEST RESULTS

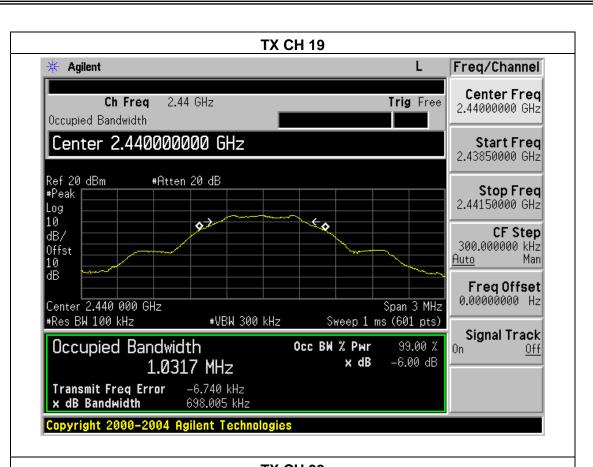
EUT:	TABLET PC	Model Name :	ET-802
Temperature :	25 ℃	Relative Humidity:	56%
Pressure :	1012 hPa	Test Voltage :	DC 3.7V
Test Mode :	TX Mode /CH00, CH19, CH39		

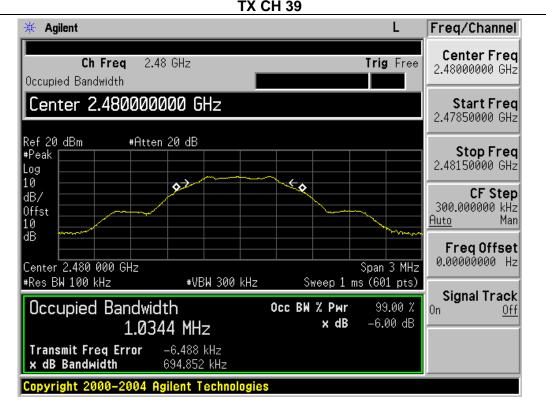
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Channel	Frequency (MHz)	6dB bandwidth (kHz)	Limit (kHz)	Result
Low	2402	700.085	500	Pass
Middle	2440	698.005	500	Pass
High	2480	694.852	500	Pass











6. PEAK OUTPUT POWER TEST

6.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C				
Section Test Item Limit Frequency Range (MHz)				Result
15.247(b)(3)	Peak Output Power	1 watt or 30dBm	2400-2483.5	PASS

6.1.1 TEST PROCEDURE

a. The EUT was directly connected to the Power meter

6.1.2 DEVIATION FROM STANDARD

No deviation.

6.1.3 TEST SETUP



6.1.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.



6.1.5 TEST RESULTS

EUT:	TABLET PC	Model Name :	ET-802
Temperature :	25 ℃	Relative Humidity:	60%
Pressure:	1012 hPa	Test Voltage :	DC 3.7V
Test Mode :	TX Mode		

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Test Channe	Frequency Conducted Output Power(PK)		LIMIT	
	(MHz)	(dBm)	dBm	
CH00	2402	-3.47	30	
CH19	2440	-3.28	30	
CH39	2480	-3.37	30	



7. 100 KHZ BANDWIDTH OF FREQUENCY BAND EDGE APPLICABLE STANDARD

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

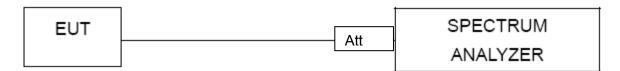
TEST PROCEDURE

- a) Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
- b) Position the EUT without connection to measurement instrument. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. Then set it to any one measured frequency within its operating range, and make sure the instrument is operated in its linear range.
- c) Set RBW to 100 kHz and VBW of spectrum analyzer to 300 kHz with a convenient frequency span including 100 kHz bandwidth from band edge.
- d) Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.
- e) Repeat above procedures until all measured frequencies were complete.

7.1 DEVIATION FROM STANDARD

No deviation.

7.2 TEST SETUP



7.3 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.



7.4 TEST RESULTS

EUT:	TABLET PC	Model Name :	ET-802
Temperature :	25 ℃	Relative Humidity:	56%
Pressure:	1012 hPa	Test Voltage :	DC 3.7V

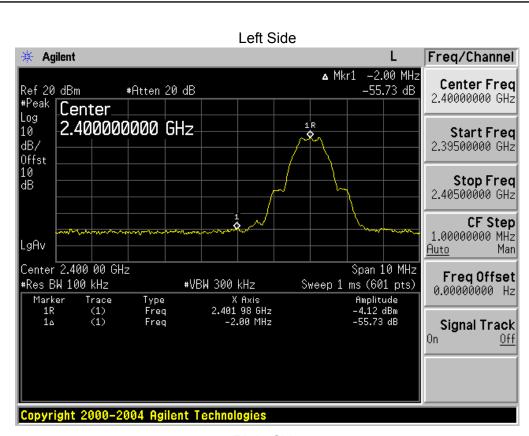
Frequency Band	Delta Peak to band emission (dBc)	>Limit (dBc)	Result
Left-band	55.73	20	Pass
Right-band	56.40	20	Pass

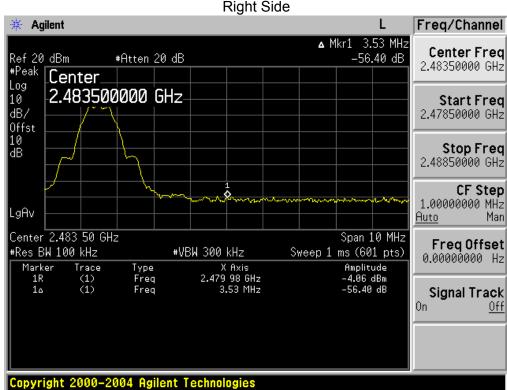
Radiated band edge:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector	Comment
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре	Comment
2390	48.57	-13.06	35.51	74	-38.49	peak	Vertical
2390	46.42	-13.06	33.36	74	-40.64	peak	Horizontal
2483.5	47.39	-12.78	34.61	74	-39.39	peak	Vertical
2483.5	48.78	-12.78	36.00	74	-38.00	peak	Horizontal

Note: Test method to see chapter 3.2. When PK value is lower than the Average value limit, average not record.









8. ANTENNA REQUIREMENT

8.1 STANDARD REQUIREMENT

15.203 requirement: For intentional device, according to 15.203: an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

8.2 EUT ANTENNA

The EUT ante	enna is FPCB ante	enna. It comply	with the stand	dard requirement.





9. EUT TEST PHOTO



