

FCC Part 15C Test Report FCC ID: XHWEGQ178

Product Name:	7.9 inch tablet
Trademark:	E-matic
Model Name :	EGQ178, EGQ178BL, EGQ178BU, EGQ178PR, EGQ178PN, EGQ178RD
Prepared For :	E-matic
Address:	3435 Ocean Park Blvd # 107 PMB#444 Santa Monica CA 90405 Los Angeles, CA 90405.
Prepared By :	Shenzhen BCTC Technology Co., Ltd.
Address:	No.101,Yousong Road,Longhua New District, Shenzhen,China
Test Date:	Feb. 03 - Feb. 17, 2015
Date of Report :	Feb. 17, 2015
Report No.:	BCTC-150100528

Report No.: BCTC-150100528



TEST RESULT CERTIFICATION

Applicant's name:	
Address:	3435 Ocean Park Blvd # 107 PMB#444 Santa Monica CA 90405 Los Angeles, CA 90405.
Manufacture's Name:	
Address:	2231 Colby Ave. L.A., C.A., 90064 U.S.A
Product description	
Product name:	7.9 inch tablet
Model and/or type reference :	EGQ178
Trade Name	E-matic
Serial Model:	EGQ178BL, EGQ178BU, EGQ178PR, EGQ178PN, EGQ178RD
Standards:	FCC Part15.247
Test procedure	ANSI C63.4-2003
	s been tested by BCTC, and the test results show that the compliance with the FCC requirements. And it is applicable only the report.
This report shall not be reproduc	ced except in full, without the written approval of BCTC, this
•	ised by BCTC, personal only, and shall be noted in the revision of
the document.	
Date of Test	:
	Feb. 03 - Feb. 17, 2015
Date of Issue	Feb. 17, 2015
Test Result	Pass
Testing Engineer :	Frie Yang
	(Eric Yang)
Technical Manager :	Sophie lu
	(Sophia Lee)
Authorized Signatory:	Conson. 2 hours
	(Carson. Zhang)



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1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

FCC Part15 (15.247) , Subpart C							
Standard Section	l lest item						
15.207	Conducted Emission	PASS					
15.247(a)(1)	Hopping Channel Separation	PASS					
15.247(b)(1)	Peak Output Power	PASS					
15.247(c)	Radiated Spurious Emission	PASS					
15.247(a)(iii)	Number of Hopping Frequency	PASS					
15.247(a)(iii)	Dwell Time	PASS					
15.247(a)(1)	Bandwidth	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

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Add.: No.101, Yousong Road, Longhua New District, Shenzhen, China

FCC Registered No.: 187086

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%

Report No.: BCTC-150100528



2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Equipment	7.9 inch tablet			
Trade Name	E-matic			
Model Name	EGQ178			
Serial Model	EGQ178BL, EGQ178Bl	J, EGQ178PR, EGQ178PN,		
	EGQ178RD			
Model Difference	All the same,Only model name is different.			
	The EUT is a 7.9 inch ta	ablet		
	Operation Frequency:	2402~2480 MHz		
	Modulation Type:	BT(1Mbps): GFSK		
		BT EDR(2Mbps): ∏/4-DQPSK		
		BT EDR(3Mbps): 8-DPSK		
	Bit Rate of Transmitter 1Mbps/2Mbps/3Mbps			
	Number Of Channel	79 CH		
Product Description	Antenna Designation:	Please see Note 3.		
, , , , , , , , , , , , , , , , , , , ,	Output	BT(1Mbps): 1.462dBm		
	Power(Conducted):	BT EDR(2Mbps): 0.685dBm		
		BT EDR(3Mbps): -0.736dBm		
	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.		
	Model:PGAE0500200U1UL			
Adapter	AC Power Input: 100-240V~, 50/60Hz, 0.3A			
	Output: 5.0V, 2.0A			
Battery	DC3.7V			
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.

	Channel List						
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)		
00	2402	27	2429	54	2456		
01	2403	28	2430	55	2457		
02	2404	29	2431	56	2458		
03	2405	30	2432	57	2459		
04	2406	31	2433	58	2460		
05	2407	32	2434	59	2461		
06	2408	33	2435	60	2462		

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07	2409	34	2436	61	2463
08	2410	35	2437	62	2464
09	2411	36	2438	63	2465
10	2412	37	2439	64	2466
11	2413	38	2440	65	2467
12	2414	39	2441	66	2468
13	2415	40	2442	67	2469
14	2416	41	2443	68	2470
15	2417	42	2444	69	2471
16	2418	43	2445	70	2472
17	2419	44	2446	71	2473
18	2420	45	2447	72	2474
19	2421	46	2448	73	2475
20	2422	47	2449	74	2476
21	2423	48	2450	75	2477
22	2424	49	2451	76	2478
23	2425	50	2452	77	2479
24	2426	51	2453	78	2480
25	2427	52	2454		
26	2428	53	2455		

Table for Filed Antenna

Ant	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	NOTE
1	N/A	N/A	FPCB Antenna	NA	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	CH39
Mode 3	CH78
Mode 4	BT Link Mode

For Conducted Emission			
Final Test Mode	Description		
Mode 4 BT Link Mode			

For Radiated Emission			
Final Test Mode	Description		
Mode 1	CH00		
Mode 2	CH39		
Mode 3	CH78		

Note:

- (1) The measurements are performed at the highest, middle, lowest available channels.
- (2)The data rate was set in 1Mbps for radiated emission due to the highest RF output power.

2.3 TABLE OF PARAMETERS OF TEXT SOFTWARE SETTING

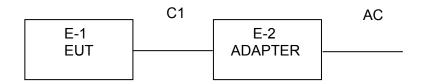
During testing channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product power parameters of FHSS

Test software Version	Test program: BC5				
Frequency	2402 MHz 2441 MHz 2480 MHz				
Parameters(1Mbps)	DEF	DEF	DEF		
Parameters(2Mbps)	DEF	DEF	DEF		
Parameters(3Mbps)	DEF	DEF	DEF		



2.4 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

Conducted Emission Test



Radiated Spurious Emission Test

E-1 EUT Report No.: BCTC-150100528



2.5 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	Mfr/Brand	Model/Type No.	Series No.	Note
E-1	7.9 inch tablet	N/A	EGQ178	N/A	EUT
E-2	Adapter	N/A	PGAE0500200U1UL	N/A	

Item	Shielded Type	Ferrite Core	Length	Note
C-1	NO	NO	0.9m	

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.
- (3) "YES" is means "shielded" "with core"; "NO" is means "unshielded" "without core".



2.6 EQUIPMENTS LIST FOR ALL TEST ITEMS

Radiation Test equipment

	allon rest equip						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
1	Spectrum Analyzer	Agilent	E4407B	MY4510957 2	2014.08.25	2015.08.24	1 year
2	Test Receiver	R&S	ESPI	101396	2014.08.25	2015.08.24	1 year
3	Bilog Antenna	SCHWARZB ECK	VULB9160	VULB9160- 3369	2014.08.25	2015.08.24	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	SCHWARZB ECK	9120D	9120D-1275	2014.08.25	2015.08.24	1 year
7	Horn Ant	Schwarzbeck	BBHA 9170	9170-181	2014.07.06	2015.07.05	1 year
8	Amplifier	SCHWARZBE CK	BBV9718	9718-270	2014.08.25	2015.08.24	1 year
9	Amplifier	SCHWARZBE CK	BBV9743	9743-119	2014.08.25	2015.08.24	1 year
10	Loop Antenna	ARA	PLA-1030/B	1029	2014.06.08	2015.06.07	1 year
11	Power Meter	R&S	NRVS	100696	2014.07.06	2015.07.05	1 year
12	Power Sensor	R&S	URV5-Z4	0395.1619. 05	2014.07.06	2015.07.05	1 year
13	RF cables	R&S	N/A	N/A	2014.07.06	2015.07.05	1 year

Conduction Test equipment

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
1	Test Receiver	R&S	ESCI	101421	2014.08.25	2015.08.24	1 year
2	LISN	SCHWARZB ECK	NSLK8127	812779	2014.08.25	2015.08.24	1 year
3	LISN	EMCO	Feb-16	42990	2014.08.24	2015.08.23	1 year
4	50Ω Coaxial Switch	Anritsu	MP59B	620026441 7	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



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 (dBuV)		Ctondord
FREQUENCY (MHz)	Quasi-peak	Average	Quasi-peak	Average	Standard
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	



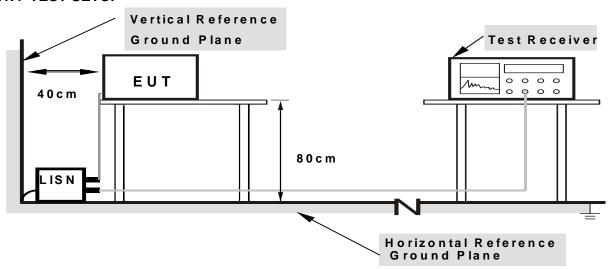
3.1.2 TEST PROCEDURE

- a. The EUT was placed 0.4 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.

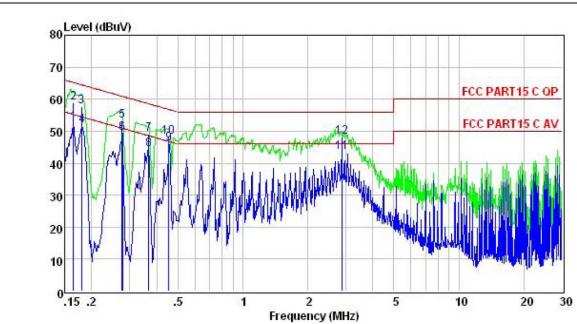


3.1.6 TEST RESULTS

EUT:	7.9 inch tablet	Model Name. :	EGQ178
Temperature :	26 ℃	Relative Humidity:	54%
Pressure :	1010hPa	Phase :	L
Test Voltage :	AC 120V/60Hz	Test Mode:	Mode 4

Remark:

- All readings are Quasi-Peak and Average values.
 Factor = Insertion Loss + Cable Loss.



					600
	Freq	Level	Limit Line	Over Limit	Remark
-	MHz	dBuV	dBuV	——dB	1
1	0.165	52.59	55.21	-2.62	Average
2	0.165	58.90	65.21	-6.31	QP
	0.180	57.60	64.49	-6.89	QP
4	0.181	51.81	54.46	-2.65	Average
5	0.277	53.10	60.91	-7.81	QP
6	0.277	49.30	50.90	-1.60	Average
7	0.367	49.20	58.57	-9.37	QP
8	0.367	44.17	48.56	-4.39	Average
9	0.454	45.99	46.80	-0.81	Average
10	0.454	48.10	56.80	-8.70	QP
11	2.869	43.30	46.00	-2.70	Average
12	2.869	48.30	56.00	-7.70	QP

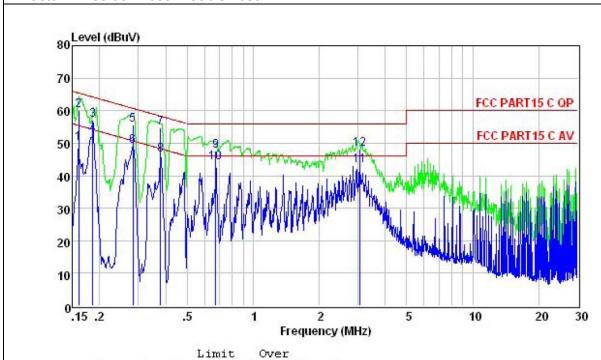


EUT:	7.9 inch tablet	Model Name. :	EGQ178
Temperature :	26 ℃	Relative Humidity:	54%
Pressure :	1010hPa	Phase :	N
Test Voltage :	AC 120V/60Hz	Test Mode:	Mode 4

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Remark:

- 1. All readings are Quasi-Peak and Average values.
- 2. Factor = Insertion Loss + Cable Loss.



	Freq	Level	Line	Limit	Remark
· -	MHz	dBuV	dBuV	dB	-
1	0.161	50.05	55.43	-5.38	Average
2	0.161	60.10	65.43	-5.33	QP
3	0.186	57.20	64.21	-7.01	QP
4	0.186	52.57	54.20	-1.63	Average
5	0.283	55.74	60.73	-4.99	QP
6	0.283	49.11	50.72	-1.61	Average
7	0.379	54.60	58.30	-3.70	QP
8	0.379	46.48	48.30	-1.82	Average
9	0.675	47.50	56.00	-8.50	QP
10	0.675	43.98	46.00	-2.02	Average

3.058 43.18 46.00 -2.82 Average

3.058 48.30 56.00 -7.70 QP

11

12



3.2 RADIATED EMISSION MEASUREMENT

3.2.1 RADIATED EMISSION LIMITS

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

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

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 open area 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.



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- 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

3.2.3 DEVIATION FROM TEST STANDARD

No deviation

FCC Report

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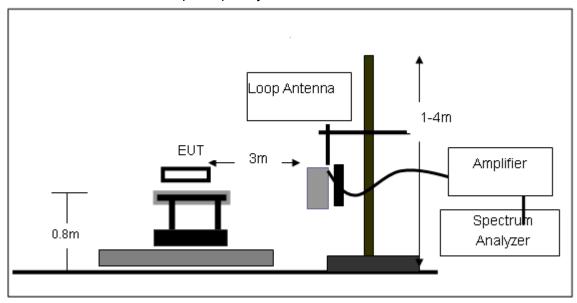
Web:Http//www.bctc-lab.com

Report No.: BCTC-150100528

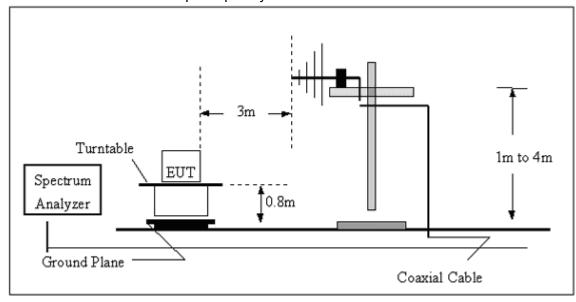


3.2.4 TEST SETUP

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



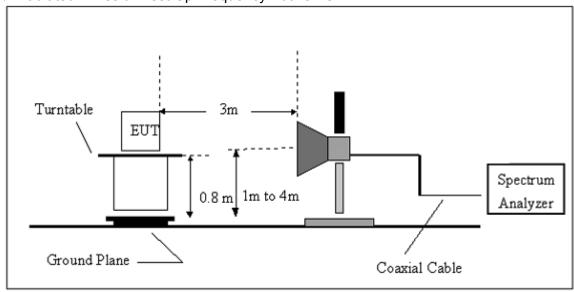
(B) Radiated Emission Test-Up Frequency 30MHz~1GHz



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(C) Radiated Emission Test-Up Frequency Above 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 (BELOW 30 MHZ)

EUT:	7.9 inch tablet	Model Name :	EGQ178
Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	1010 hPa	Polarization :	
Test Voltage :	DC 3.7V		
Test Mode :	TX		

Freq.	Reading	Limit	Margin	State
(MHz)	(dBuV/m)	(dBuV/m)	(dB)	P/F
				PASS
				PASS

NOTE:

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

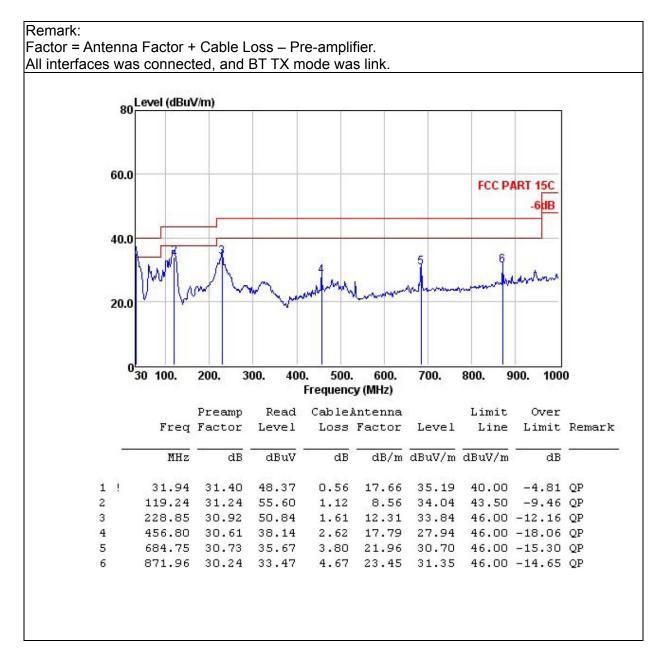
Distance extrapolation factor =40 log (specific distance/test distance)(dB);

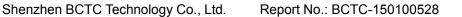
Limit line = specific limits(dBuv) + distance extrapolation factor.



3.2.7 TEST RESULTS (BETWEEN 30M - 1000 MHZ)

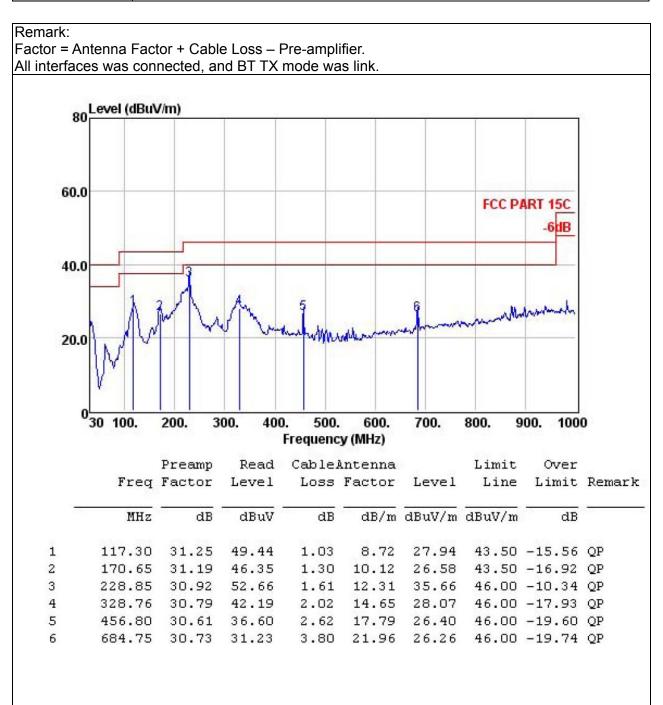
EUT:	7.9 inch tablet	Model Name :	EGQ178
Temperature :	26 ℃	Relative Humidity:	54%
Pressure:	1010 hPa	Polarization :	Horizontal
Test Voltage :	DC 3.7V		
Test Mode :	TX		







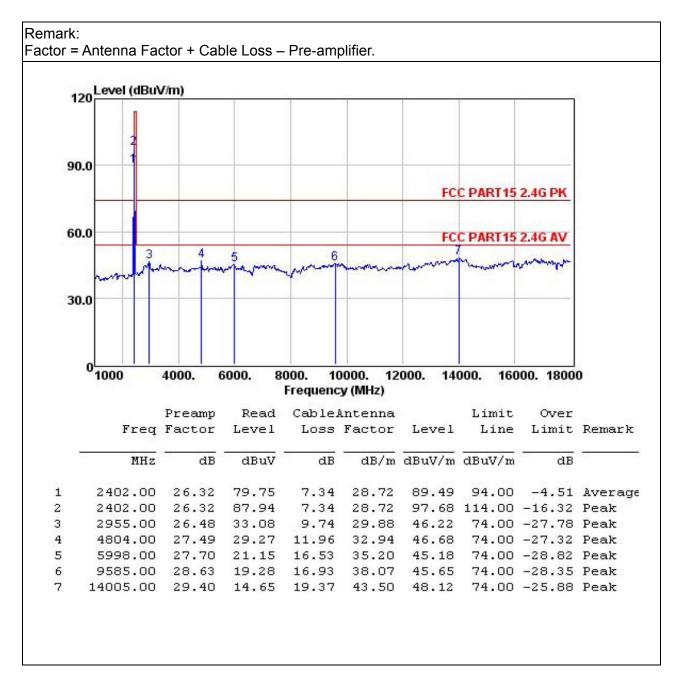
EUT:	7.9 inch tablet	Model Name :	EGQ178
Temperature :	26 ℃	Relative Humidity:	54%
Pressure:	1010 hPa	Polarization :	Vertical
Test Voltage :	DC 3.7V		
Test Mode :	TX		





3.2.8 TEST RESULTS (ABOVE 1000 MHZ)

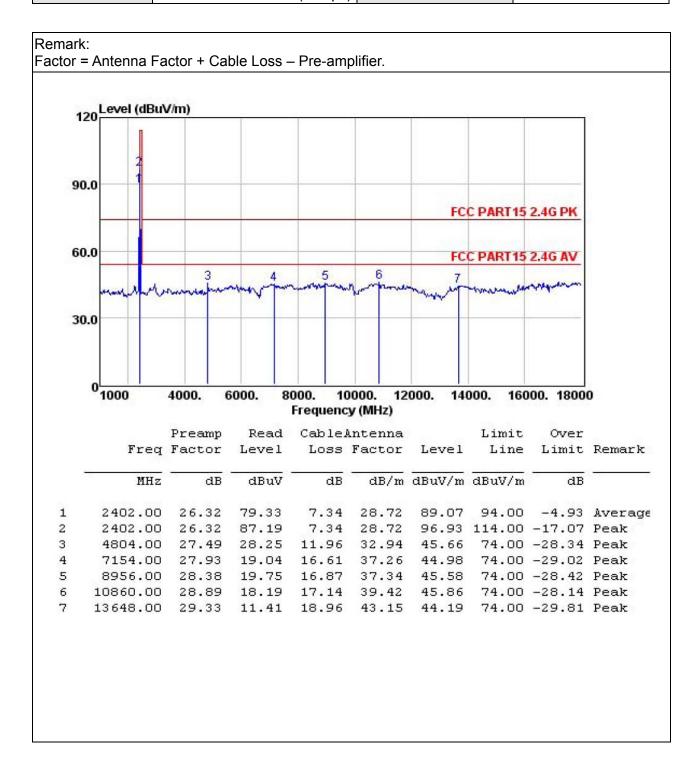
EUT:	7.9 inch tablet	Model Name :	EGQ178
Temperature:	26 ℃	Relative Humidity:	54%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V
Test Mode :	TX 2402MHz – CH 00(1Mbps)	Polarization :	Horizontal





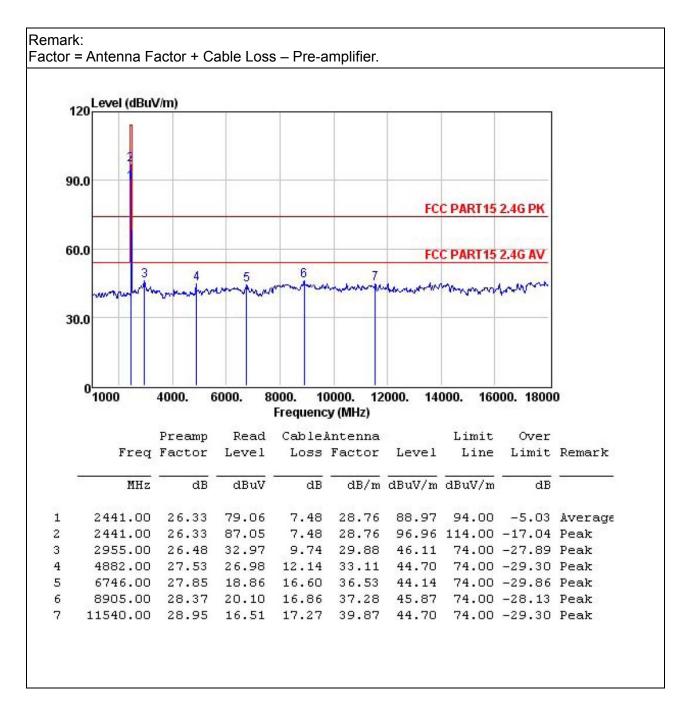
Shenzhen BCTC Technology Co., Ltd. Report No.: BCTC-150100528

EUT:	7.9 inch tablet	Model Name :	EGQ178
Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	1010 hPa	Test Voltage :	DC 3.7V
Test Mode :	TX 2402MHz - CH 00(1Mbps)	Polarization :	Vertical





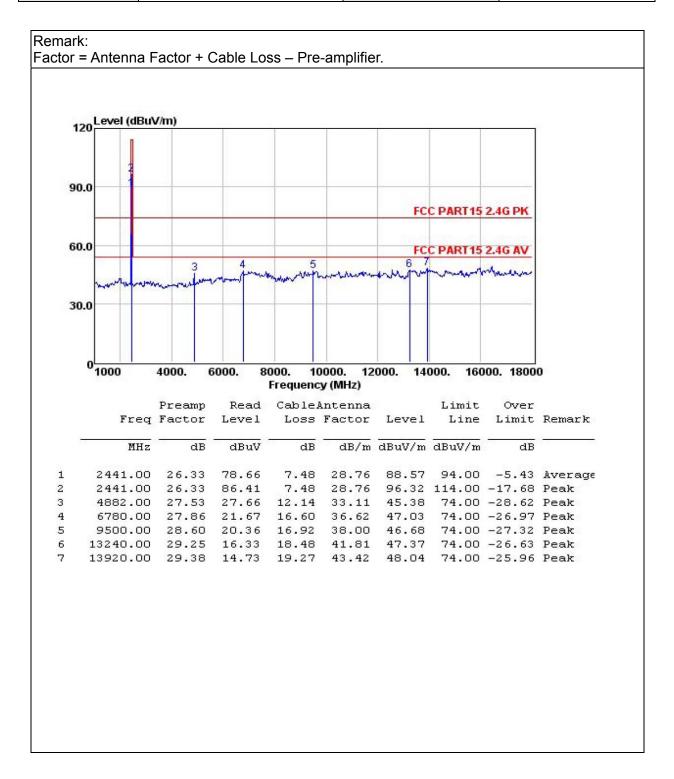
EUT:	7.9 inch tablet	Model Name :	EGQ178
Temperature :	26 ℃	Relative Humidity:	54%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V
Test Mode :	TX 2441MHz – CH 39(1Mbps)	Polarization :	Vertical





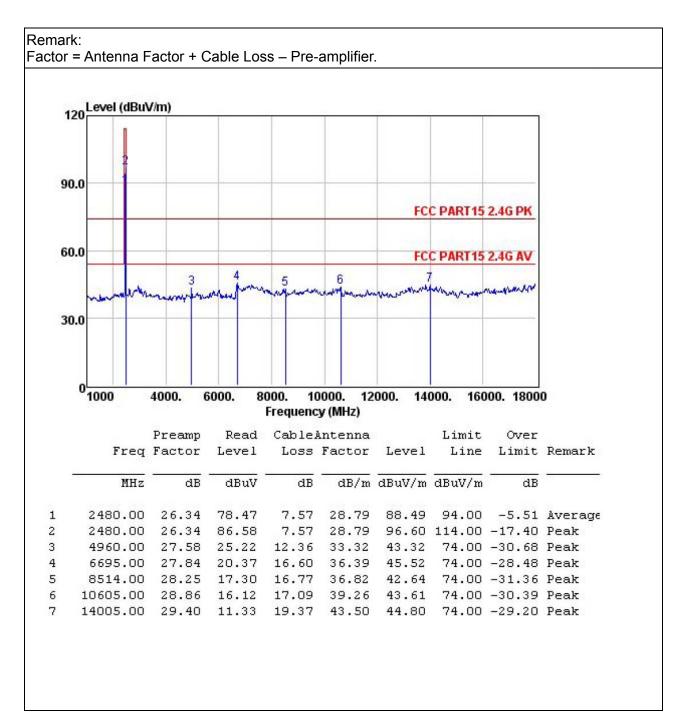
Shenzhen BCTC Technology Co., Ltd. Report No.: BCTC-150100528

EUT:	7.9 inch tablet	Model Name :	EGQ178
Temperature:	26 ℃	Relative Humidity:	54%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V
Test Mode :	TX 2441MHz – CH 39(1Mbps)	Polarization :	Horizontal





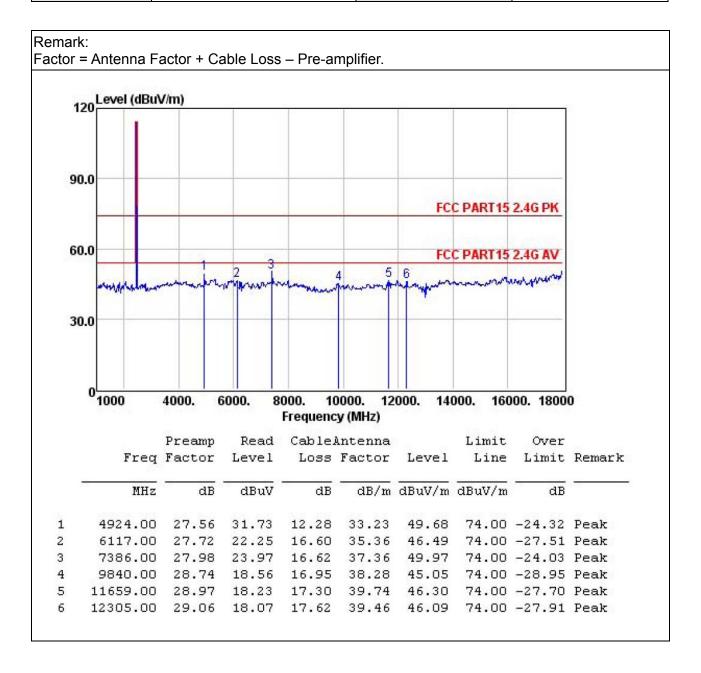
EUT:	7.9 inch tablet	Model Name :	EGQ178
Temperature :	26 ℃	Relative Humidity:	54%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V
Test Mode :	TX 2480MHz – CH 78(1Mbps)	Polarization :	Horizontal

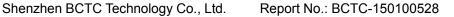




Shenzhen BCTC Technology Co., Ltd. Report No.: BCTC-150100528

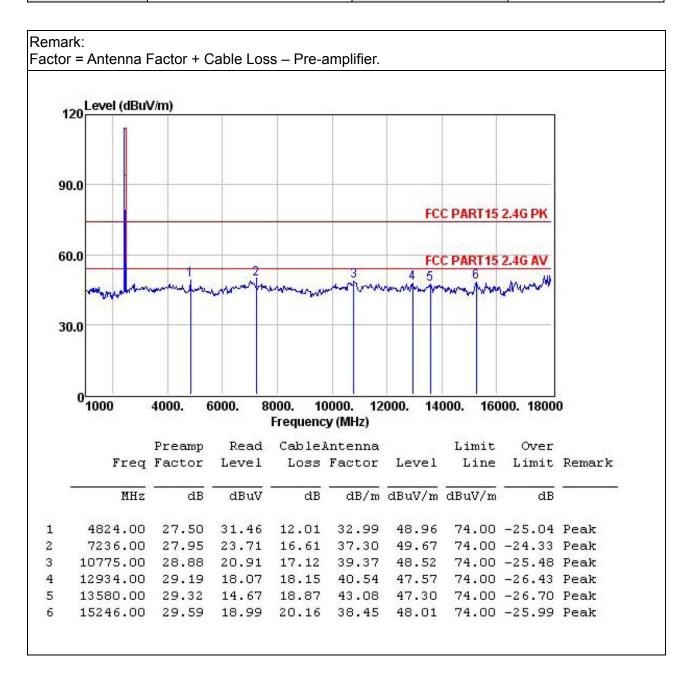
EUT:	7.9 inch tablet	Model Name :	EGQ178
Temperature:	26 ℃	Relative Humidity:	54%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V
Test Mode :	TX 2480MHz – CH 78(1Mbps)	Polarization :	Vertical

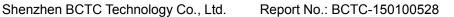






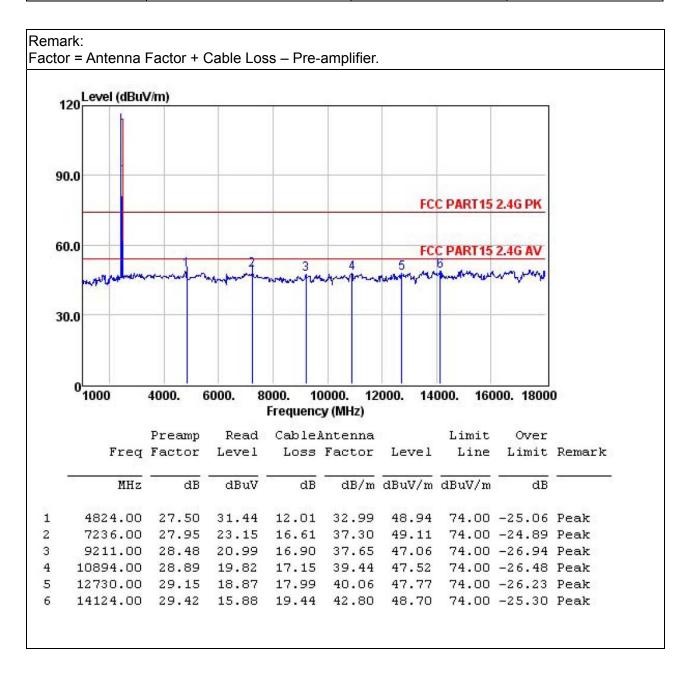
EUT:	7.9 inch tablet	Model Name :	EGQ178
Temperature :	26 ℃	Relative Humidity:	54%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V
Test Mode :	TX 2402MHz - CH 00(2Mbps)	Polarization :	Horizontal

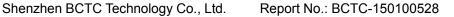






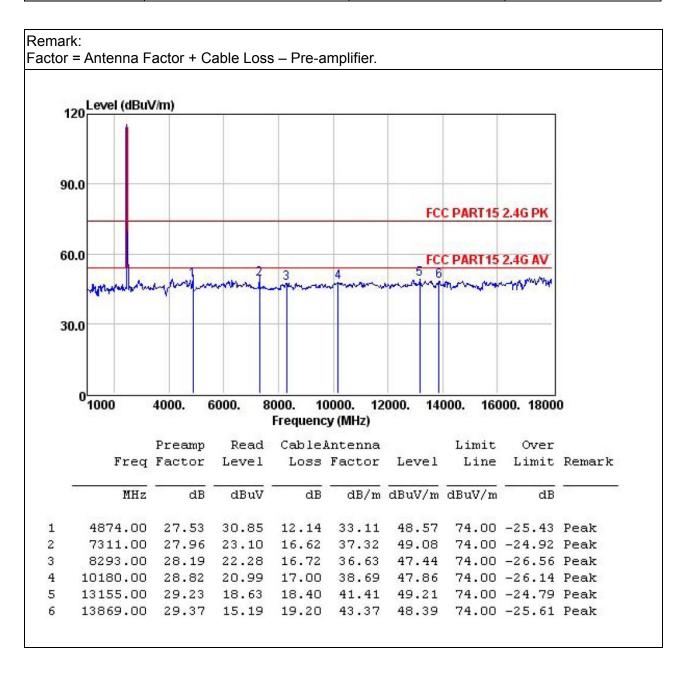
EUT:	7.9 inch tablet	Model Name :	EGQ178
Temperature :	26 ℃	Relative Humidity:	54%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V
Test Mode :	TX 2402MHz – CH 00(2Mbps)	Polarization :	Vertical

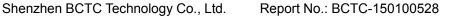






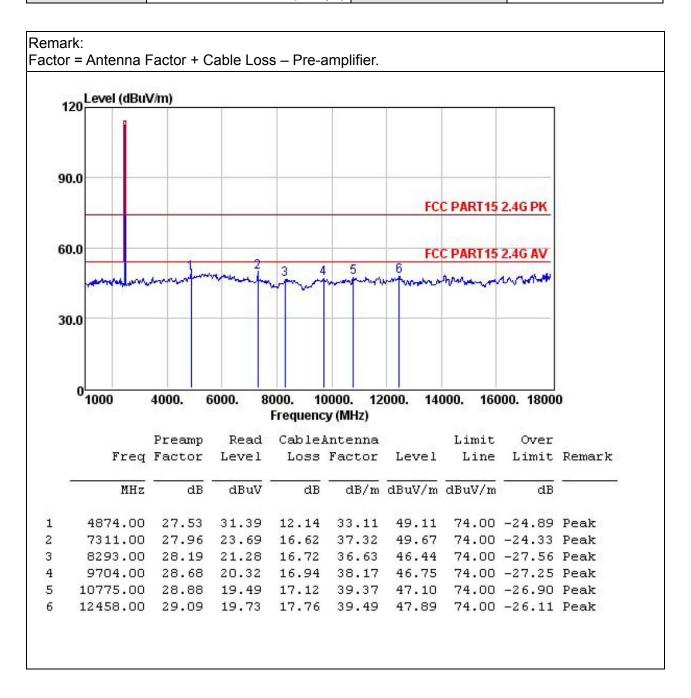
EUT:	7.9 inch tablet	Model Name :	EGQ178
Temperature:	26 ℃	Relative Humidity:	54%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V
Test Mode :	TX 2441MHz – CH 39(2Mbps)	Polarization :	Horizontal

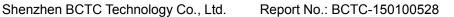






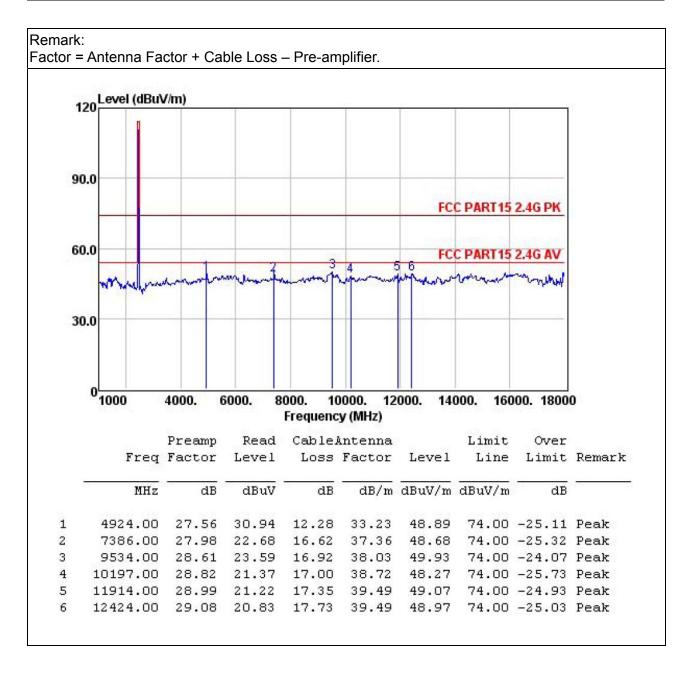
EUT:	7.9 inch tablet	Model Name :	EGQ178
Temperature :	26 ℃	Relative Humidity:	54%
Pressure:	1010 hPa	Test Voltage :	DC 3.7V
Test Mode :	TX 2441MHz – CH 39(2Mbps)	Polarization :	Vertical







EUT:	7.9 inch tablet	Model Name :	EGQ178
Temperature :	26 ℃	Relative Humidity:	54%
Pressure:	1010 hPa	Test Voltage :	DC 3.7V
Test Mode :	TX 2480MHz – CH 78(2Mbps)	Polarization :	Horizontal

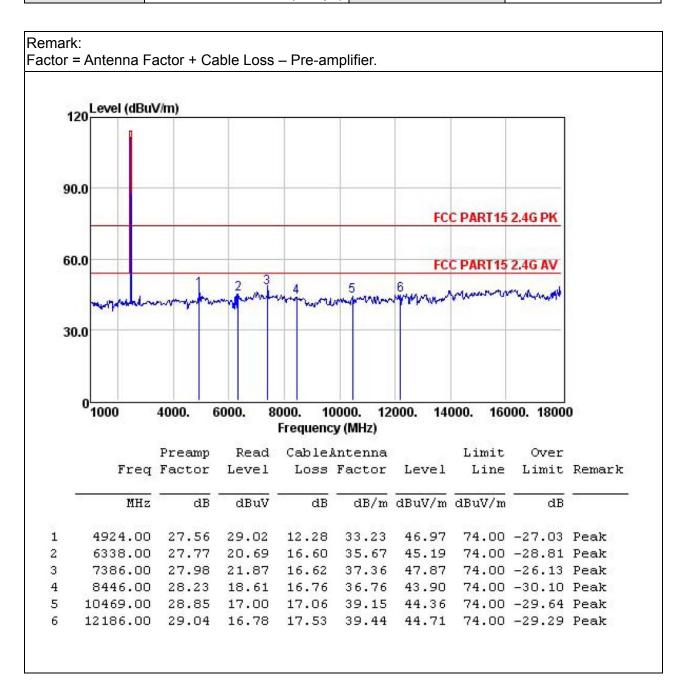


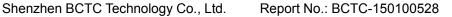




	<u> </u>		
EUT:	7.9 inch tablet	Model Name :	EGQ178
Temperature :	26 ℃	Relative Humidity:	54%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V
Test Mode :	TX 2480MHz – CH 78(2Mbps)	Polarization :	Vertical

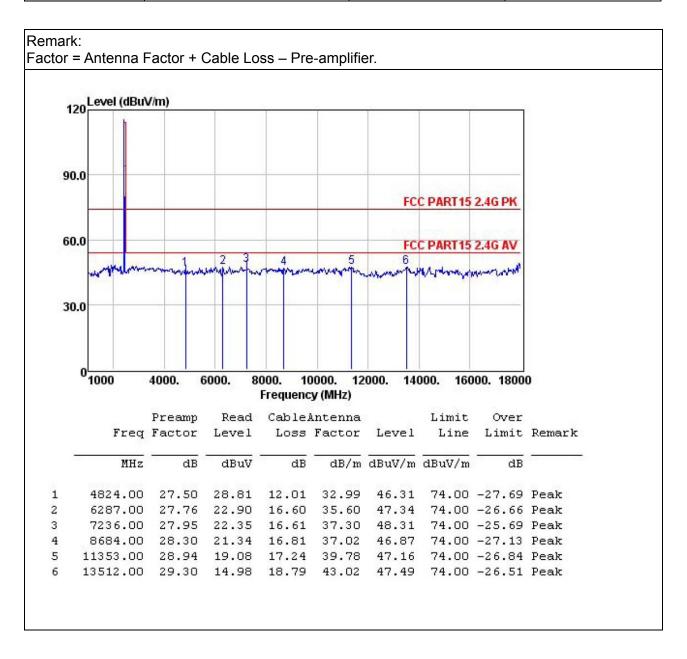
Shenzhen BCTC Technology Co., Ltd.

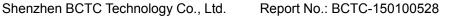






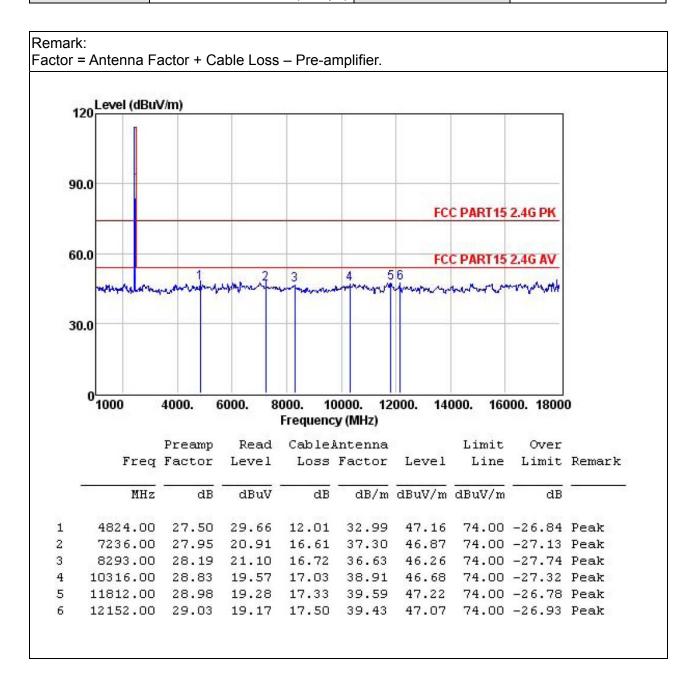
EUT:	7.9 inch tablet	Model Name :	EGQ178
Temperature :	26 ℃	Relative Humidity:	54%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V
Test Mode :	TX 2402MHz - CH00 (3Mbps)	Polarization :	Horizontal

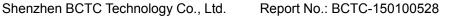






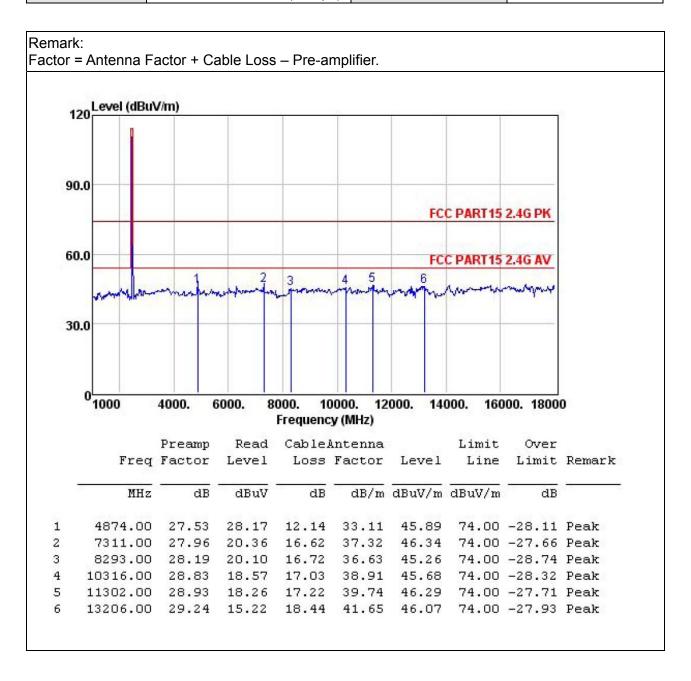
EUT:	7.9 inch tablet	Model Name :	EGQ178
Temperature :	26 ℃	Relative Humidity:	54%
Pressure:	1010 hPa	Test Voltage :	DC 3.7V
Test Mode :	TX 2402MHz – CH00 (3Mbps)	Polarization :	Vertical

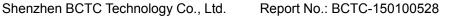






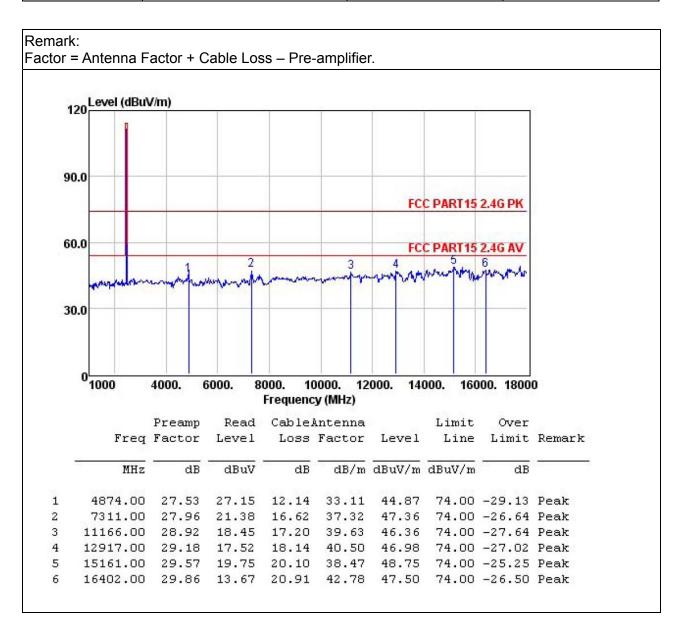
EUT:	7.9 inch tablet	Model Name :	EGQ178
Temperature :	26 ℃	Relative Humidity:	54%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V
Test Mode :	TX 2441MHz – CH39(3Mbps)	Polarization :	Horizontal

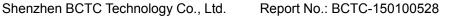






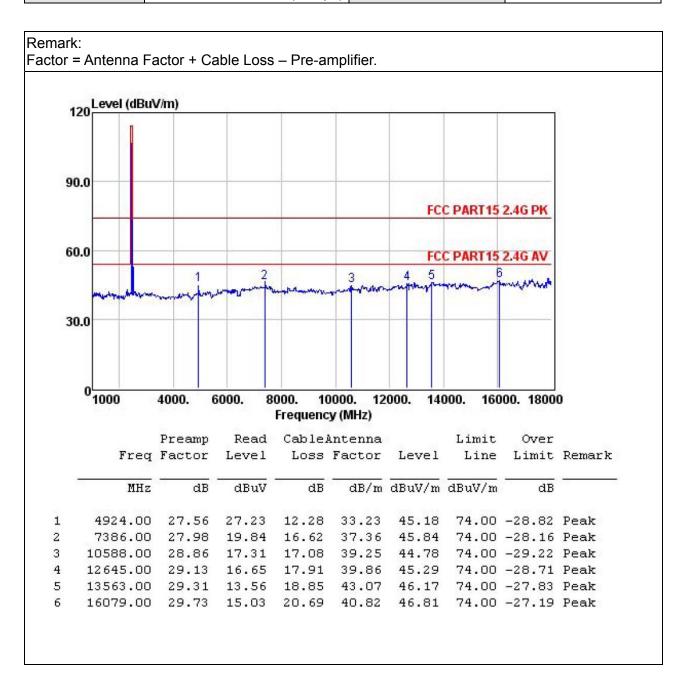
EUT:	7.9 inch tablet	Model Name :	EGQ178
Temperature :	26 ℃	Relative Humidity:	54%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V
Test Mode :	TX 2441MHz – CH39 (3Mbps)	Polarization :	Vertical







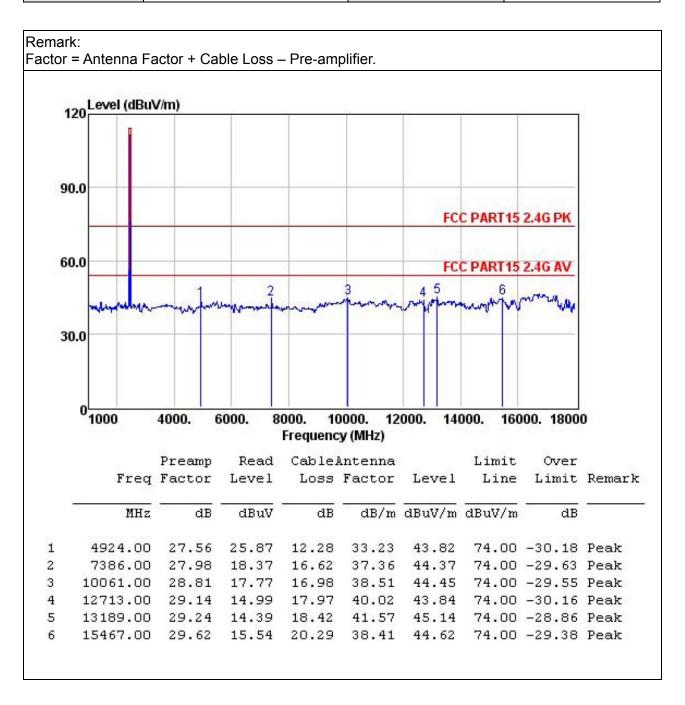
EUT:	7.9 inch tablet	Model Name :	EGQ178
Temperature :	26 ℃	Relative Humidity:	54%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V
Test Mode :	TX 2480MHz – CH78 (3Mbps)	Polarization :	Horizontal







EUT:	7.9 inch tablet	Model Name :	EGQ178
Temperature :	26 ℃	Relative Humidity:	54%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V
Test Mode :	TX 2480MHz – CH78 (3Mbps)	Polarization :	Vertical





3.2.9 TEST RESULTS (RESTRICTED BANDS REQUIREMENTS)

EUT:	7.9 inch tablet	Model Name :	EGQ178
Temperature:	26 ℃	Relative Humidity:	54%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V
Test Mode :	TX /2402MHz-1Mbps	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
2400	90.6	-40.5	50.1	74	-23.9	peak

Remark:

Factor = Antenna Factor + Cable Loss - Pre-amplifier.



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EUT:	7.9 inch tablet	Model Name :	EGQ178
Temperature :	26 ℃	Relative Humidity:	54%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V
Test Mode :	TX /2402MHz-1Mbps	Polarization :	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Dotostor Typo
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
2400	86	-40.5	45.5	74	-28.5	peak

Remark:

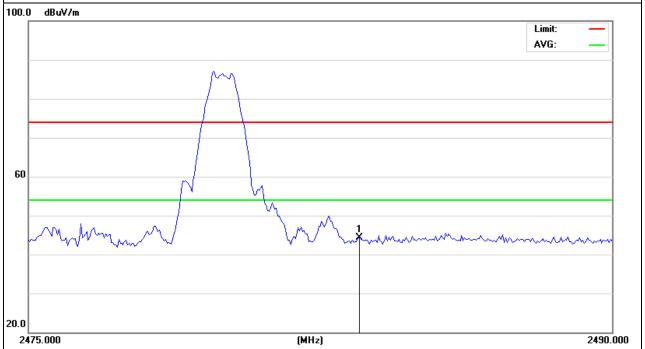




EUT:	7.9 inch tablet	Model Name :	EGQ178
Temperature :	26 ℃	Relative Humidity:	54%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V
Test Mode :	TX /2480MHz-1Mbps	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Datastar Tuna
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
2483.5	84.73	-40.43	44.3	74	-29.7	peak

Remark:



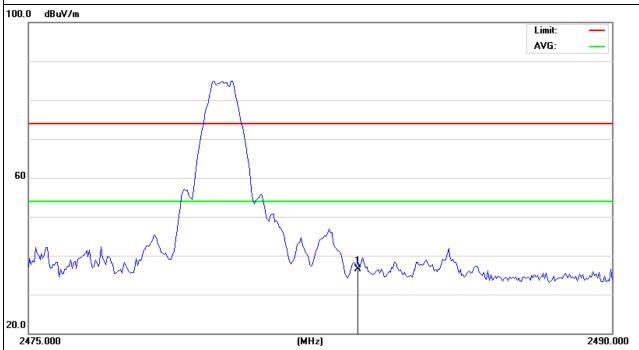


Report No.: BCTC-150100528

EUT:	7.9 inch tablet	Model Name :	EGQ178
Temperature :	26 ℃	Relative Humidity:	54%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V
Test Mode :	TX /2480MHz-1Mbps	Polarization :	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Dotostor Typo
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
2483.5	76.93	-40.43	36.5	74	-37.5	peak

Remark:





Report No.: BCTC-150100528

EUT:	7.9 inch tablet	Model Name :	EGQ178
Temperature :	26 ℃	Relative Humidity:	54%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V
Test Mode :	TX /2402MHz-2Mbps	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
2400	83.9	-40.5	43.4	74	-30.6	peak

Remark:





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EUT:	7.9 inch tablet	Model Name :	EGQ178
Temperature :	26 ℃	Relative Humidity:	54%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V
Test Mode :	TX /2402MHz-2Mbps	Polarization :	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
2400	85.8	-40.5	45.3	74	-28.7	peak

Remark:



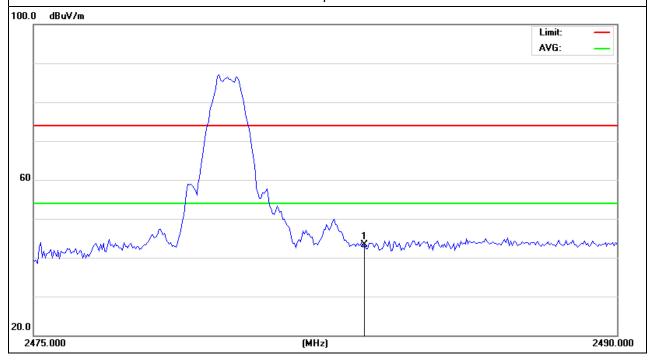


Report No.: BCTC-150100528

EUT:	7.9 inch tablet	Model Name :	EGQ178
Temperature :	26 ℃	Relative Humidity:	54%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V
Test Mode :	TX /2480MHz-2Mbps	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
2483.5	83.83	-40.43	43.4	74	-30.6	peak

Remark:



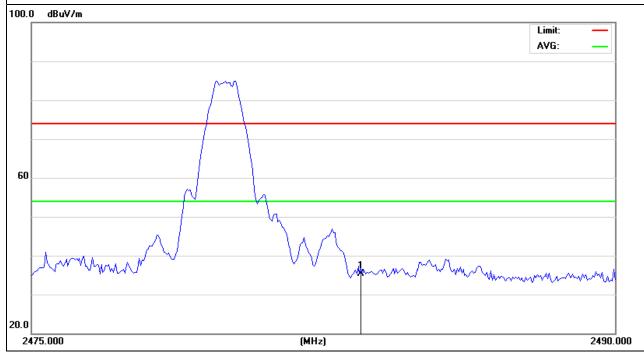


Report No.: BCTC-150100528

EUT:	7.9 inch tablet	Model Name :	EGQ178
Temperature :	26 ℃	Relative Humidity:	54%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V
Test Mode :	TX /2480MHz-2Mbps	Polarization :	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
2483.5	75.73	-40.43	35.3	74	-38.7	peak

Remark:





EUT:	7.9 inch tablet	Model Name :	EGQ178
Temperature :	26 ℃	Relative Humidity:	54%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V
Test Mode :	TX /2402MHz-3Mbps	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
2400	90.2	-40.5	49.7	74	-24.3	peak

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.



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Report No.: BCTC-150100528

EUT:	7.9 inch tablet	Model Name :	EGQ178
Temperature :	26 ℃	Relative Humidity:	54%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V
Test Mode :	TX /2402MHz-3Mbps	Polarization :	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
2400	91	-40.5	50.5	74	-23.5	peak

Remark:



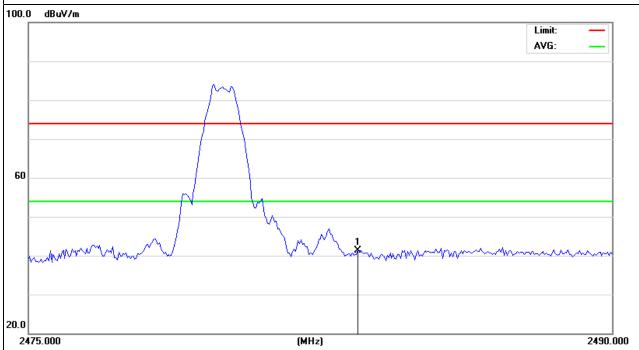


Report No.: BCTC-150100528

EUT:	7.9 inch tablet	Model Name :	EGQ178
Temperature :	26 ℃	Relative Humidity:	54%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V
Test Mode :	TX /2480MHz-3Mbps	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Dotoctor Typo
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
2483.5	81.73	-40.43	41.3	74	-32.7	peak

Remark:

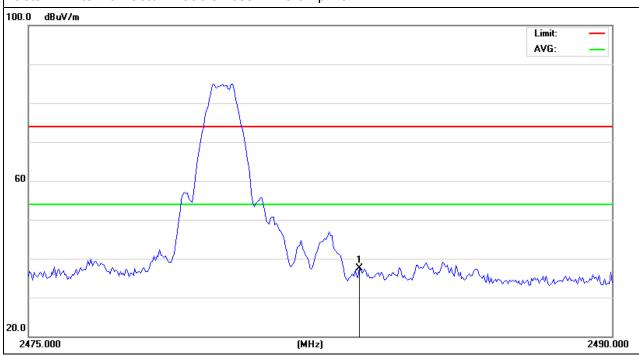


EUT:	7.9 inch tablet	Model Name :	EGQ178
Temperature :	26 ℃	Relative Humidity:	54%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V
Test Mode :	TX /2480MHz-3Mbps	Polarization :	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Dotostor Typo
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
2483.5	77.93	-40.43	37.5	74	-36.5	peak

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.



NOTE: Hopping enabled and disabled have evaluated, and the worrest data (disabled)was reported

Report No.: BCTC-150100528



4. NUMBER OF HOPPING CHANNEL

4.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C					
Section	Test Item	Limit	Frequency Range (MHz)	Result	
15.247 (a)(1)(iii)	Number of Hopping Channel	≥15	2400-2483.5	PASS	

Spectrum Parameters	Setting
Attenuation	Auto
Span Frequency	> Operating Frequency Range
RB	100 kHz
VB	100 kHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

4.1.1 TEST PROCEDURE

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- b. Spectrum Setting: RBW= 100KHz, VBW=100KHz, Sweep time = Auto.

4.1.2 DEVIATION FROM STANDARD

No deviation.

4.1.3 TEST SETUP



4.1.4 EUT OPERATION CONDITIONS

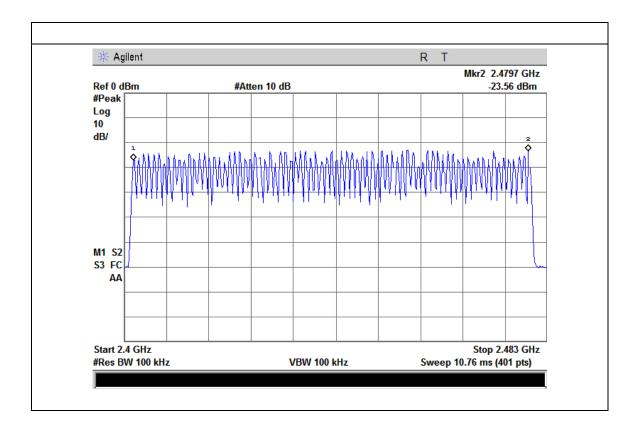
The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.



4.1.5 TEST RESULTS

EUT:	7.9 inch tablet	Model Name :	EGQ178
Temperature :	26 ℃	Relative Humidity:	54%
Pressure:	1015 hPa	Test Voltage :	DC 3.7V
Test Mode :	Hopping Mode		





Report No.: BCTC-150100528



5. AVERAGE TIME OF OCCUPANCY

5.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C					
Section	Test Item	Limit	Frequency Range (MHz)	Result	
15.247 (a)(1)(iii)	Average Time of Occupancy	0.4sec	2400-2483.5	PASS	

5.1.1 TEST PROCEDURE

- a. The transmitter output (antenna port) was connected to the spectrum analyzer
- b. Set RBW of spectrum analyzer to 1MHz and VBW to 1MHz.
- C. Use a video trigger with the trigger level set to enable triggering only on full pulses.
- d. Sweep Time is more than once pulse time.
- e. Set the center frequency on any frequency would be measure and set the frequency span to zero span.
- f Measure the maximum time duration of one single pulse.
- g. Set the EUT for DH5, DH3 and DH1 packet transmitting.
- h. Measure the maximum time duration of one single pulse.
- i. A Period Time = (channel number)*0.4
 - DH1 Time Slot: Reading * (1600/2)*31.6/(channel number)
 - DH3 Time Slot: Reading * (1600/4)*31.6/(channel number)
 - DH5 Time Slot: Reading * (1600/6)*31.6/(channel number)

5.1.2 DEVIATION FROM STANDARD

No deviation.



5.1.3 TEST SETUP

EUT	SPECTRUM
	ANALYZER

5.1.4 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.

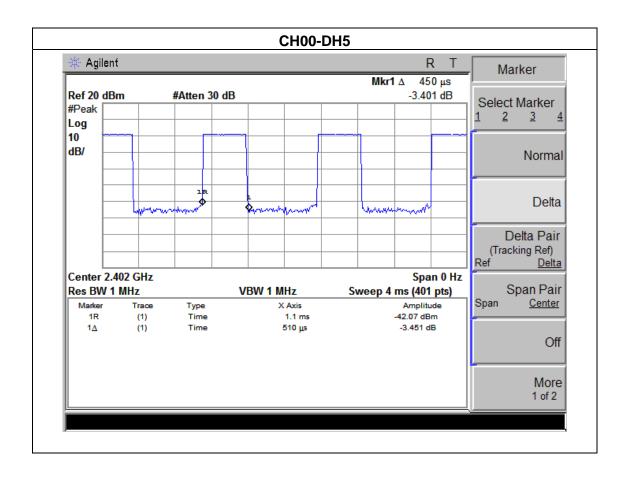
Report No.: BCTC-150100528



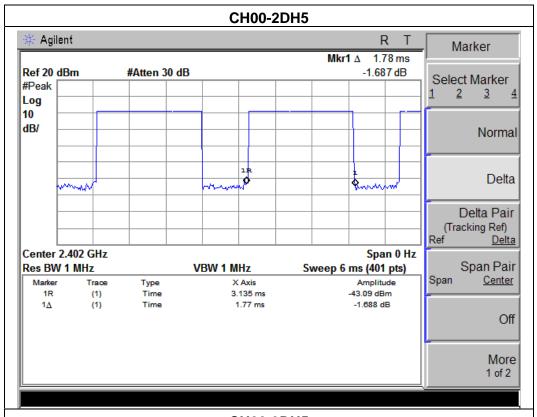
5.1.5 TEST RESULTS

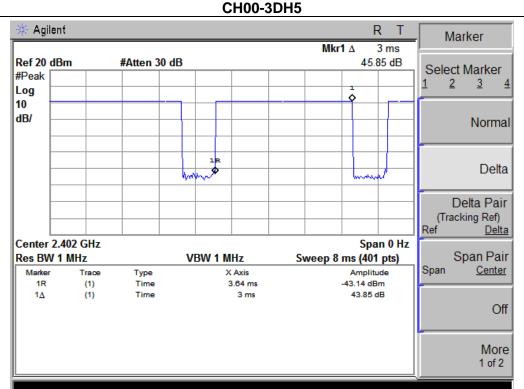
EUT:	7.9 inch tablet	Model Name :	EGQ178
Temperature:	26 ℃	Relative Humidity:	54%
Pressure :	1012 hPa	Test Voltage :	DC 3.7V
Test Mode :	CH39-DH5 ,2DH5,3DH5		

Data Packet	Frequenc y	Pulse Duration (ms)	Dwell Time (s)	Limits (s)
DH5	2402 MHz	0.45	0.05	0.4
2DH5	2402 MHz	1.78	0.19	0.4
3DH5	2402 MHz	3.00	0.32	0.4









NOTE: The dwell time is showed the maximum data of all data(DH1,2DH1,3DH1, DH3,2DH3,3DH3, DH5,2DH5,3DH5), (DH5,2DH5,3DH5) of mode have the maximum dwell time.

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6. HOPPING CHANNEL SEPARATION MEASUREMENT

6.1 APPLIED PROCEDURES / LIMIT

Frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater.

Spectrum Parameter	Setting	
Attenuation	Auto	
Span Frequency	> Measurement Bandwidth or Channel Separation	
RB	100 kHz (Channel Separation)	
VB	100 kHz (Channel Separation)	
Detector	Peak	
Trace	Max Hold	
Sweep Time	Auto	

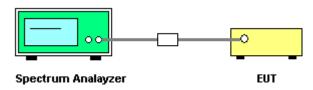
6.1.1 TEST PROCEDURE

- a. The transmitter output (antenna port) was connected to the spectrum analyser in peak hold mode.
- b. The resolution bandwidth of 100 kHz and the video bandwidth of 100 kHz were utilised for channel separation measurement.

6.1.2 DEVIATION FROM STANDARD

No deviation.

6.1.3 TEST SETUP



6.1.4 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

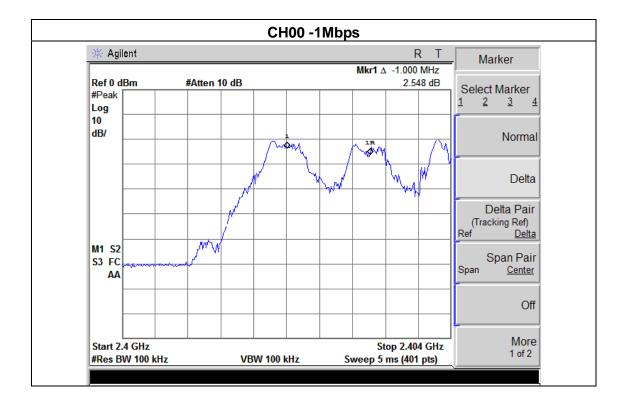


6.1.5 TEST RESULTS

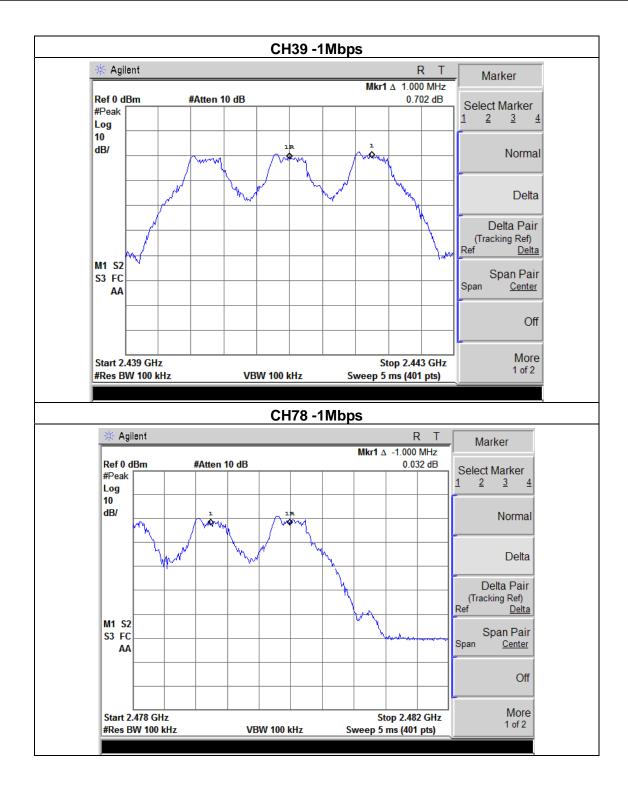
EUT:	7.9 inch tablet	Model Name :	EGQ178
Temperature :	26 ℃	Relative Humidity:	54%
Pressure:	1012 hPa	Test Voltage :	DC 3.7V
Test Mode :	CH00 / CH39 /CH78 (1Mbps Mode)		

Frequency	Ch. Separation (MHz)	Result
2402 MHz	1.000	Complies
2441 MHz	1.000	Complies
2480 MHz	1.000	Complies

Ch. Separation Limits: >20dB bandwidth or >2/3 of 20dB bandwidth





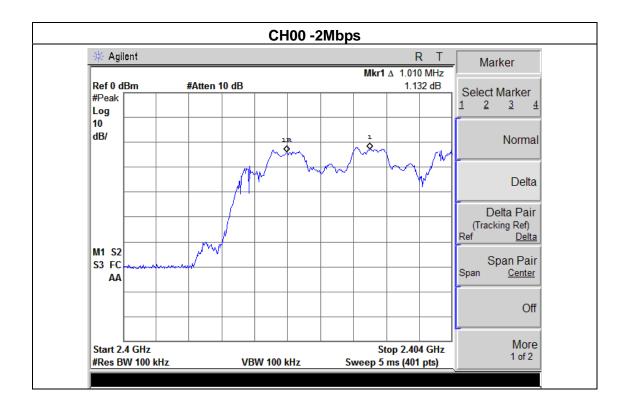


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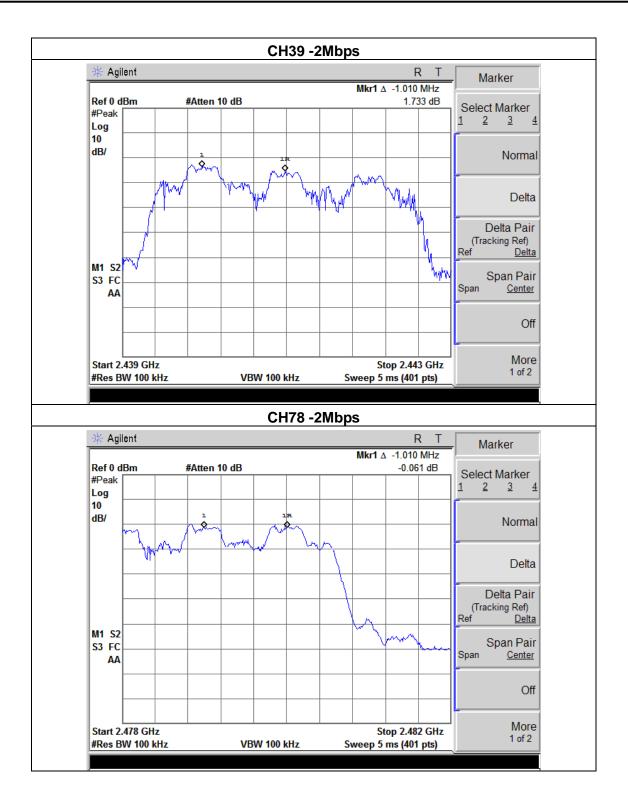
EUT:	7.9 inch tablet	Model Name :	EGQ178
Temperature :	26 ℃	Relative Humidity:	54%
Pressure:	1012 hPa	Test Voltage :	DC 3.7V
Test Mode :	CH00 / CH39 /CH78 (2Mbps Mode)		

Frequency	Ch. Separation (MHz)	Result
2402 MHz	1.010	Complies
2441 MHz	1.010	Complies
2480 MHz	1.010	Complies

Ch. Separation Limits: >20dB bandwidth or >2/3 of 20dB bandwidth





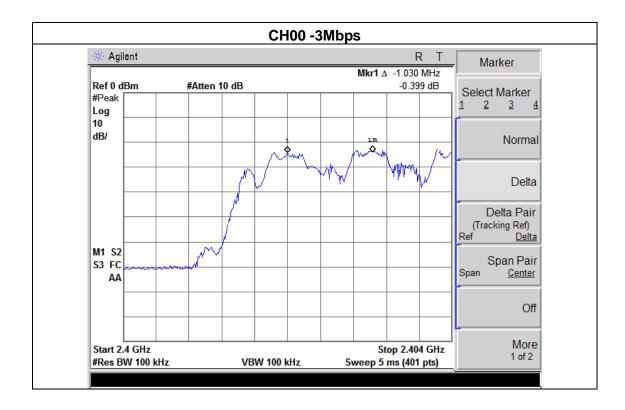


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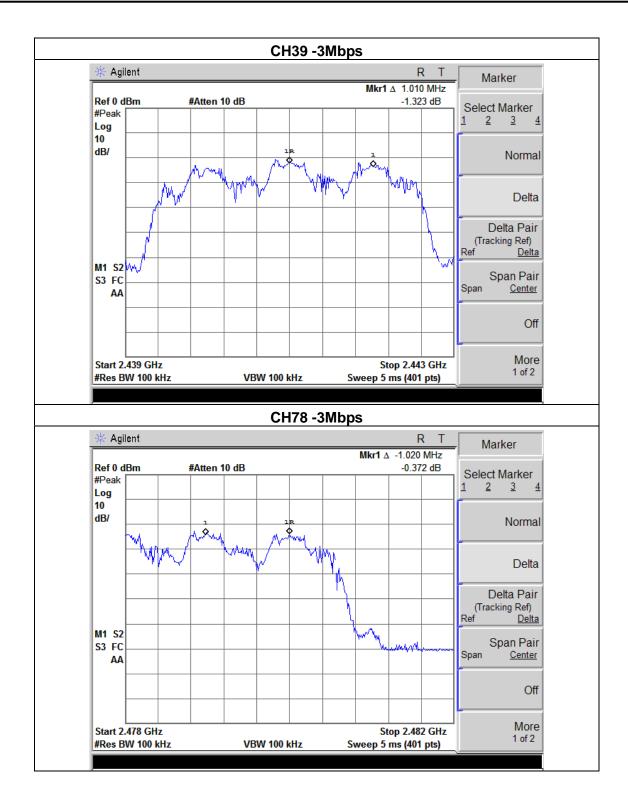
EUT:	7.9 inch tablet	Model Name :	EGQ178
Temperature :	26 ℃	Relative Humidity:	54%
Pressure :	1012 hPa	Test Voltage :	DC 3.7V
Test Mode :	CH00 / CH39 /CH78 (3Mbps Mode)		

Frequency	Ch. Separation (MHz)	Result
2402 MHz	1.030	Complies
2441 MHz	1.010	Complies
2480 MHz	1.020	Complies

Ch. Separation Limits: >20dB bandwidth or >2/3 of 20dB bandwidth









7. BANDWIDTH TEST

7.1 APPLIED PROCEDURES / LIMIT

	FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result	
15.247 (a)(1)	Bandwidth	(20dB bandwidth)	2400-2483.5	PASS	

Spectrum Parameter	Setting	
Attenuation	Auto	
Span Frequency	> Measurement Bandwidth or Channel Separation	
RB	30 kHz	
VB	100 kHz	
Detector	Peak	
Trace	Max Hold	
Sweep Time	Auto	

7.1.1 TEST PROCEDURE

7.1.2 DEVIATION FROM STANDARD

No deviation.

7.1.3 TEST SETUP



7.1.4 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.

a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,

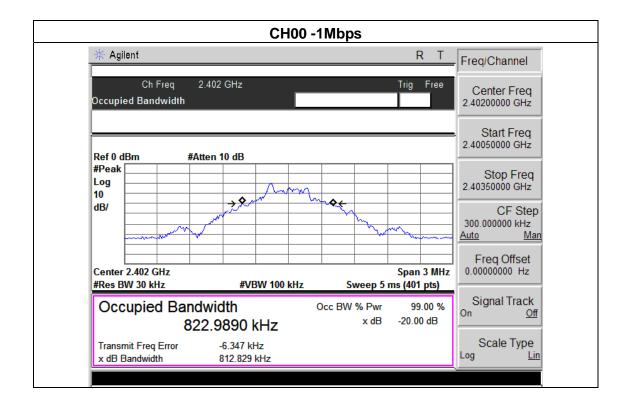
b. Spectrum Setting: RBW= 30KHz, VBW=100KHz, Sweep time = Auto.



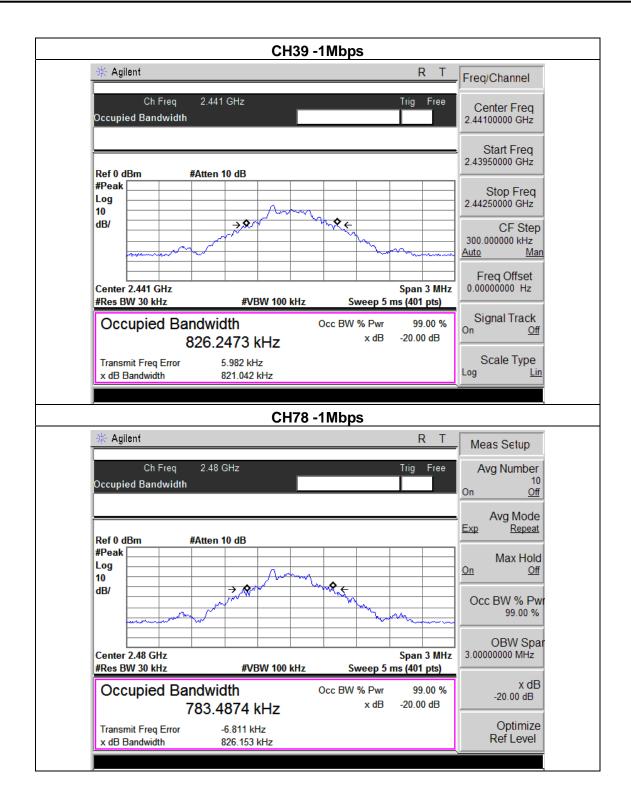
7.1.5 TEST RESULTS

EUT:	7.9 inch tablet	Model Name :	EGQ178
Temperature :	26 ℃	Relative Humidity:	54%
Pressure :	1012 hPa	Test Voltage :	DC 3.7V
Test Mode :	CH00 / CH39 /C78(1Mbps)		

Frequency	20dB Bandwidth (kHz)	Result
2402 MHz	812.82	PASS
2441 MHz	821.04	PASS
2480 MHz	826.15	PASS









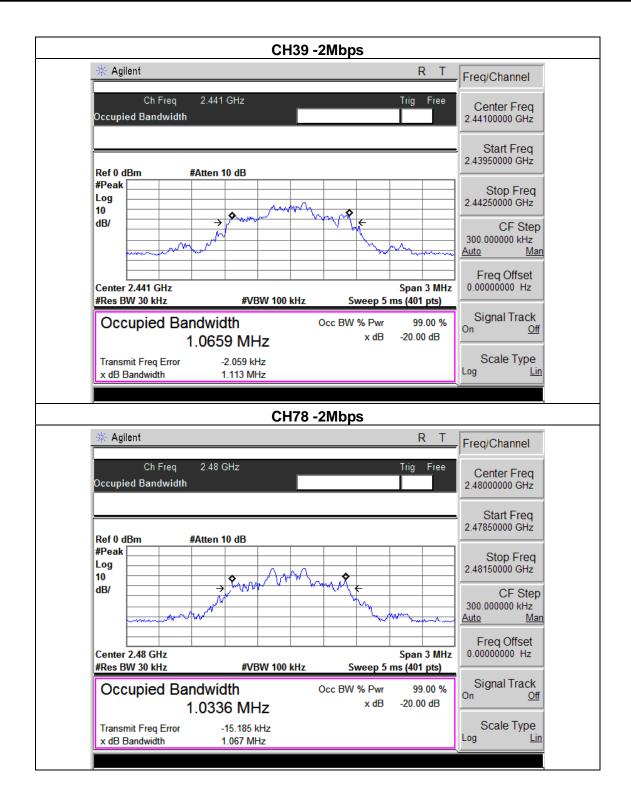
Shenzhen BCTC Technology Co., Ltd. Report No.: BCTC-150100528

EUT:	7.9 inch tablet	Model Name :	EGQ178
Temperature :	26 ℃	Relative Humidity:	54%
Pressure :	1012 hPa	Test Voltage :	DC 3.7V
Test Mode :	CH00 / CH39 /C78(2Mbps)		

Frequency	20dB Bandwidth (MHz)	Result
2402 MHz	1.118	PASS
2441 MHz	1.113	PASS
2480 MHz	1.067	PASS





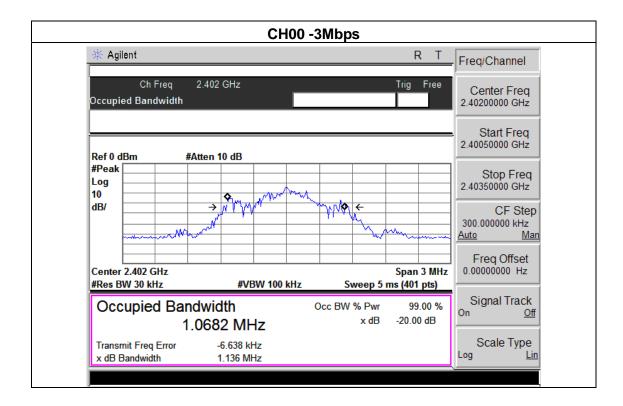




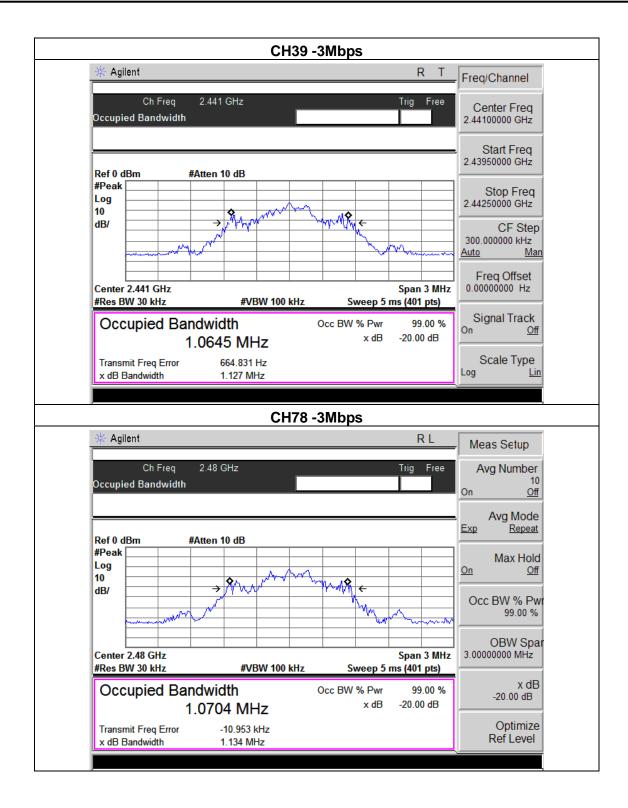
Shenzhen BCTC Technology Co., Ltd. Report No.: BCTC-150100528

EUT:	7.9 inch tablet	Model Name :	EGQ178
Temperature :	26 ℃	Relative Humidity:	54%
Pressure:	1012 hPa	Test Voltage :	DC 3.7V
Test Mode :	CH00 / CH39 /C78(3Mbps)		

Frequency	20dB Bandwidth (MHz)	Result
2402 MHz	1.136	PASS
2441 MHz	1.127	PASS
2480 MHz	1.134	PASS









8. PEAK OUTPUT POWER TEST

8.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247 (b)(i)	Peak Output Power	0.125 w or 20.96dBm	2400-2483.5	PASS

8.1.1 TEST PROCEDURE

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- b. Spectrum Setting: RBW > the 20 dB bandwidth of the emission being measured

Span = approximately 5 times the 20 dB bandwidth, centered on a hopping channel $VBW \ge RBW$

Sweep = auto

Detector function = peak

Trace = max hold

8.1.2 DEVIATION FROM STANDARD

No deviation.

8.1.3 TEST SETUP



8.1.4 EUT OPERATION CONDITIONS

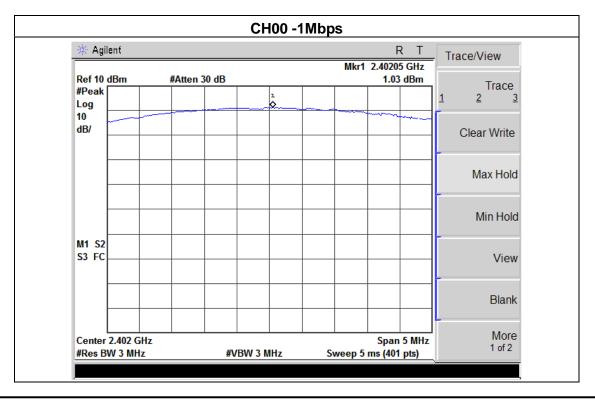
The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.



8.1.5 TEST RESULTS

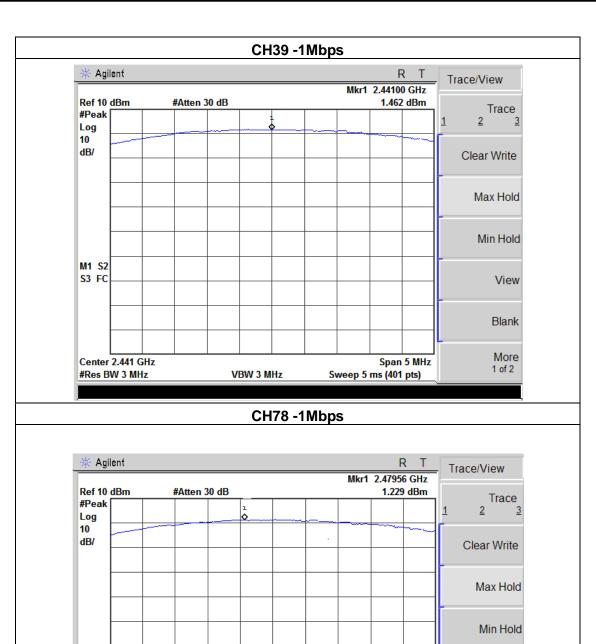
EUT:	7.9 inch tablet	Model Name :	EGQ178
Temperature :	26 ℃	Relative Humidity:	54%
Pressure :	1012 hPa	Test Voltage :	DC 3.7V
Test Mode :	CH00/ CH39 /CH78 (1M/2M/3Mbps Mode)		

1Mbps				
Test Channel	Frequency	Peak Output Power	LIMIT	
Test onamici	(MHz)	(dBm)	(dBm)	
CH00	2402	1.030	30	
CH39	2441	1.462	30	
CH78	2480	1.229	30	
	2Mbps			
CH00	2402	0.579	20.96	
CH39	2441	0.685	20.96	
CH78	2480	-0.292	20.96	
3Mbps				
CH00	2402	-0.929	20.96	
CH39	2441	-0.810	20.96	
CH78	2480	-0.736	20.96	



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M1 S2 S3 FC

Center 2.48 GHz

#Res BW 3 MHz

VBW 3 MHz

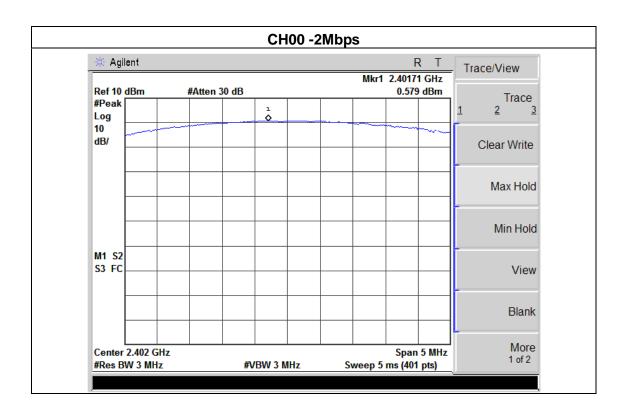
Span 5 MHz Sweep 5 ms (401 pts) View

Blank

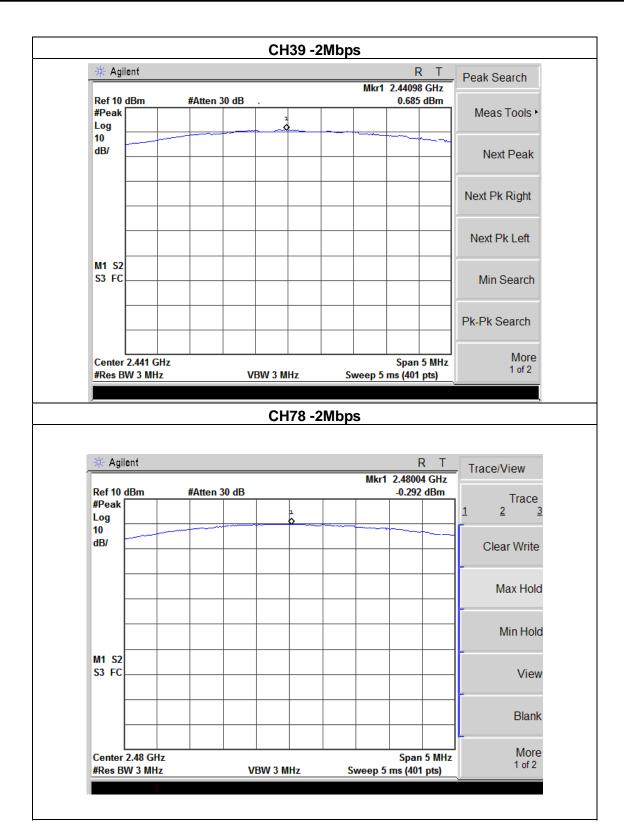
More

1 of 2

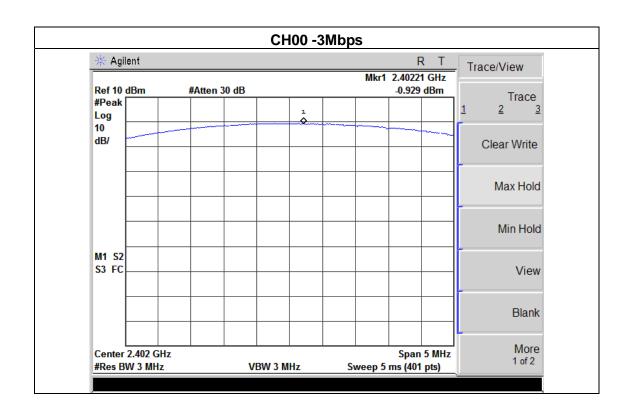




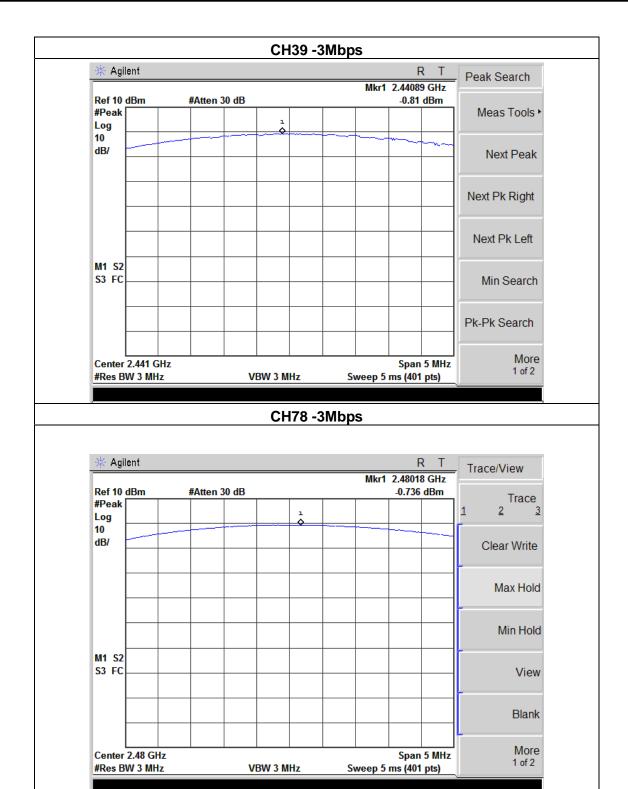














9. ANTENNA REQUIREMENT

9.1 STANDARD REQUIREMENT

For intentional device, according to FCC 47 CFR Section 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. And according to FCC 47 CFR Section 15.247 (b), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

9.2 EUT ANTENNA

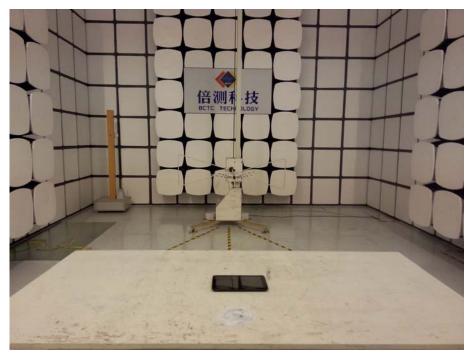
The antennas used for this product are Internal Antenna and that no antenna other than that furnished by the responsible party shall be used with the device, the maximum peak gain of the transmit antenna is only 1.0 dBi.

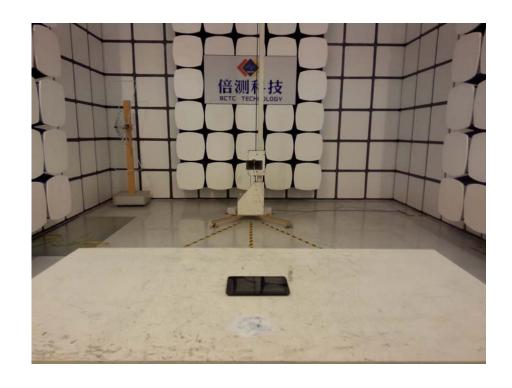
Report No.: BCTC-150100528



10. EUT TEST PHOTO













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