

FCC RADIO TEST REPORT FCC ID: 2ABXQ-B8303

Product: 3G Feature Phone

Trade Name: Bitel

Model Name: B8303

Serial Model: N/A

Report No.: NTEK-2014NT0124047F1

Prepared for

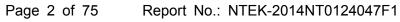
Uniphone Communication Co., Ltd
B3-801,Kexing science Park,Hi-Tech Park Mid-Zone , Nanshan ,
Shenzhen,China

Prepared by

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TEST RESULT CERTIFICATION

Applicant's name	•			
Address	B3-801,Kexir Shenzhen,Cl	ng science Park,Hi-Tech Park Mid-Zone , Nanshan , nina		
Manufacture's Name	Uniphone Communication Co., Ltd			
Address	B3-801,Kexir Shenzhen,Cl	ng science Park,Hi-Tech Park Mid-Zone , Nanshan , nina		
Product description				
Product name	3G Feature Ph	none		
Model and/or type reference	B8303			
Serial Model:	N/A			
Standards	FCC Part15.2	47		
Test procedure	ANSI C63.4-2	009		
equipment under test (EUT to the tested sample identification This report shall not be rep	i) is in compliar ied in the repor roduced excep	sted by NTEK, and the test results show that the nee with the FCC requirements. And it is applicable only rt. It in full, without the written approval of NTEK, this TEK, personal only, and shall be noted in the revision of		
Date of Test				
Date (s) of performance of	ests 24 J	lan. 2014 ~20 Feb. 2014		
Date of Issue	20 F	Feb. 2014		
Test Result	Pas	s		
		7		
Testing E	ngineer :	pow cha		
		(Polo Cha)		
Technical	Manager :	Brown Lu		
		(Brown Lu)		
Authorize	d Signatory	the services		

(Bovey Yang)



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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)(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

NTEK Testing Technology Co., Ltd

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

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%



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2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Equipment	3G Feature Phone				
Trade Name	Bitel				
Model Name	B8303	B8303			
Serial Model	N/A				
Model Difference	N/A				
	The EUT is a 3G Featur	e Phone			
	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):5.324dBm			
	Power(Conducted):	BT EDR(2Mbps):5.18dBm			
		BT EDR(3Mbps): 4.714dBm			
	Based on the application, features, or specification exhibited in User's Manual, the EUT is considered ITE/Computing Device. More details of EUT techniques of the User's Manual.				
Channel List	Please refer to the Note	2.			
	Model: B8303				
Adapter	Input: 100-240V, 150m/	4			
	Output: 5.0V===, 500mA				
Battery	DC 3.7V, 1000mAh				
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	
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			

3. Table for Filed Antenna

Ant	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	NOTE
1	N/A	N/A	PIFA 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	CH39
Mode 3	CH78
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	CH39			
Mode 3	CH78			

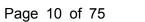
Note:

- (1) The measurements are performed at the highest, middle, lowest available channels.
- (2) The EUT use new battery.
- (3)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

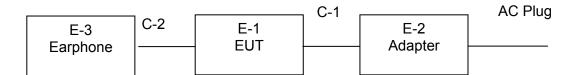
Test software Version	Test program: Broadcom				
Frequency	requency 2402 MHz		2480 MHz		
Parameters(1/2/3Mbps)	DEF	DEF	DEF		



2.4 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

Conducted Emission Test

NTEK



Radiated Spurious Emission Test

E-1 **EUT**



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	Brand	Model/Type No.	Series No.	Note
E-1	3G Feature Phone	Bitel	B8303	N/A	EUT
E-2	Adapter	N/A	B8303	N/A	
E-3	Earphone	N/A	2688	N/A	

Item	Shielded Type	Ferrite Core	Length	Note
C-1	NO	NO	0.8m	
C-2	NO	NO	1.2m	

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".



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2.6 EQUIPMENTS LIST FOR ALL TEST ITEMS

Radiation Test equipment

- taan	rtadiation 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	2013.07.06	2014.07.05	1 year	
2	Test Receiver	R&S	ESPI	101318	2013.06.07	2014.06.06	1 year	
3	Bilog Antenna	TESEQ	CBL6111D	31216	2013.07.06	2014.07.05	1 year	
4	50Ω Coaxial Switch	Anritsu	MP59B	620026441 6	2013.06.07	2014.06.06	1 year	
5	Spectrum Analyzer	ADVANTEST	R3132	150900201	2013.06.07	2014.06.06	1 year	
6	Horn Antenna	EM	EM-AH-101 80	2011071402	2013.07.06	2014.07.05	1 year	
7	Horn Ant	Schwarzbeck	BBHA 9170	9170-181	2013.07.06	2014.07.05	1 year	
8	Amplifier	EM	EM-30180	060538	2013.12.22	2014.12.21	1 year	
9	Loop Antenna	ARA	PLA-1030/B	1029	2013.06.08	2014.06.07	1 year	
10	Power Meter	R&S	NRVS	100696	2013.07.06	2014.07.05	1 year	
11	Power Sensor	R&S	URV5-Z4	0395.1619. 05	2013.07.06	2014.07.05	1 year	

Conduction Test equipment

Item	Kind of Equipment	Manufactu rer	Type No.	Serial No.	Last calibration	Calibrated until	Calibratio n period
1	Test Receiver	R&S	ESCI	101160	2013.06.06	2014.06.05	1 year
2	LISN	R&S	ENV216	101313	2013.08.24	2014.08.23	1 year
3	LISN	EMCO	3816/2	00042990	2013.08.24	2014.08.23	1 year
4	50Ω Coaxial Switch	Anritsu	MP59B	620026441 7	2013.06.07	2014.06.06	1 year
5	Passive Voltage Probe	R&S	ESH2-Z3	100196	2013.06.07	2014.06.06	1 year
6	Absorbing clamp	R&S	MOS-21	100423	2013.06.08	2014.06.07	1 year



3. EMC EMISSION TEST

3.1 CONDUCTED EMISSION MEASUREMENT

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

FREQUENCY (MHz)	Class A (dBuV)		Class B (dBuV)		Standard	
	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		



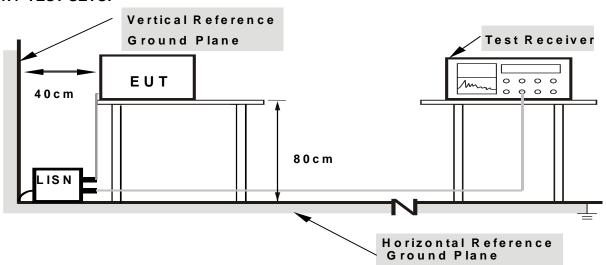
3.1.2 TEST PROCEDURE

- a. The EUT was placed 0.8 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.



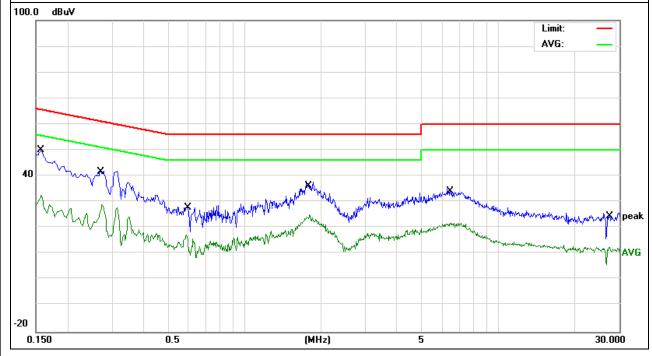
3.1.6 TEST RESULTS

EUT:	3G Feature Phone	Model Name :	B8303
Temperature :	26 ℃	Relative Humidity:	54%
Pressure :	1010hPa	Phase :	L
LIEST VOITAGE .	DC 5V form Adapter AC 120V/60Hz	Test Mode :	Mode 4

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Detector Type
0.1580	40.46	9.63	50.09	65.56	-15.47	QP
0.1580	22.99	9.63	32.62	55.56	-22.94	AVG
0.2740	31.61	9.51	41.12	60.99	-19.87	QP
0.2740	19.42	9.51	28.93	50.99	-22.06	AVG
0.5899	18.41	9.53	27.94	56.00	-28.06	QP
0.5899	7.92	9.53	17.45	46.00	-28.55	AVG
1.8060	26.26	9.57	35.83	56.00	-20.17	QP
1.8060	15.52	9.57	25.09	46.00	-20.91	AVG
6.4620	23.37	9.65	33.02	60.00	-26.98	QP
6.4620	12.28	9.65	21.93	50.00	-28.07	AVG
27.4540	14.16	10.26	24.42	60.00	-35.58	QP
27.4540	2.43	10.26	12.69	50.00	-37.31	AVG

Remark

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



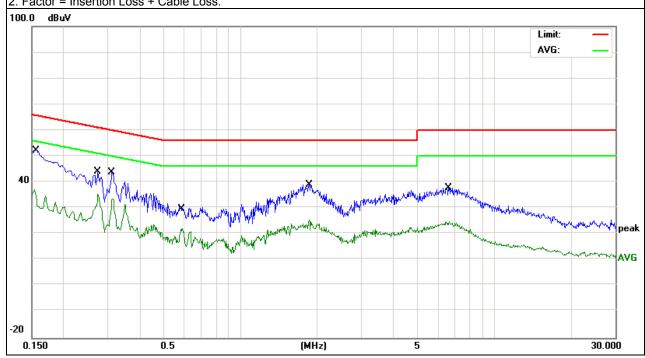


EUT:	3G Feature Phone	Model Name :	B8303
Temperature :	26 ℃	Relative Humidity:	54%
Pressure :	1010hPa	Phase :	N
LIEST VOITAGE .	DC 5V form Adapter AC 120V/60Hz	Test Mode :	Mode 4

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Detector Type
0.1539	42.45	9.65	52.10	65.78	-13.68	QP
0.1539	27.52	9.65	37.17	55.78	-18.61	AVG
0.2740	34.42	9.51	43.93	60.99	-17.06	QP
0.2740	25.82	9.51	35.33	50.99	-15.66	AVG
0.3140	33.79	9.51	43.30	59.86	-16.56	QP
0.3140	24.19	9.51	33.70	49.86	-16.16	AVG
0.5899	19.87	9.53	29.40	56.00	-26.60	QP
0.5899	12.77	9.53	22.30	46.00	-23.70	AVG
1.8620	29.31	9.57	38.88	56.00	-17.12	QP
1.8620	15.99	9.57	25.56	46.00	-20.44	AVG
6.6620	26.58	9.66	36.24	60.00	-23.76	QP
6.6620	15.09	9.66	24.75	50.00	-25.25	AVG

Remark:

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





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)

EDEOLIENOV (MLI–)	Class A (dBu	V/m) (at 3M)	Class B (dBuV/m) (at 3M)		
FREQUENCY (MHz)	PEAK	AVERAGE	PEAK	AVERAGE	
Above 1000	80	60	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).

FREQUENCY RANGE OF RADIATED MEASUREMENT (For unintentional radiators)

Highest frequency generated or Upper frequency of measurement used in the device or on which the device operates or tunes (MHz)	Range (MHz)
Below 1.705	30
1.705 – 108	1000
108 – 500	2000
500 – 1000	5000
Above 1000	5 th harmonic of the highest frequency or 40 GHz, whichever is lower



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

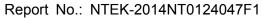
3.2.2 TEST PROCEDURE

- 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 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.
- 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

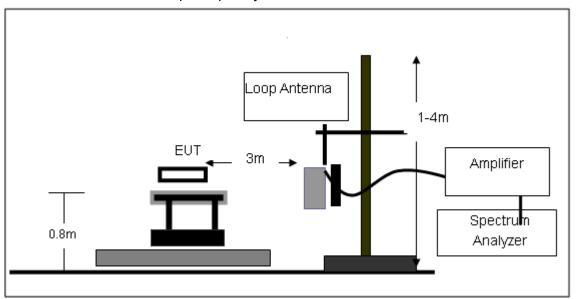
No deviation



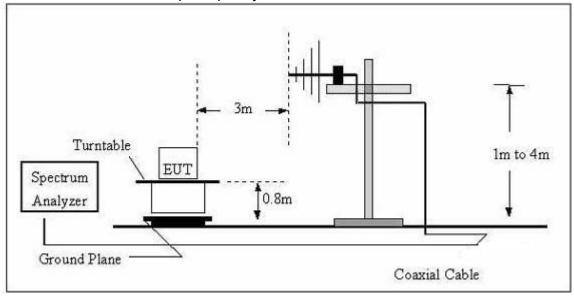


3.2.4 TEST SETUP

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

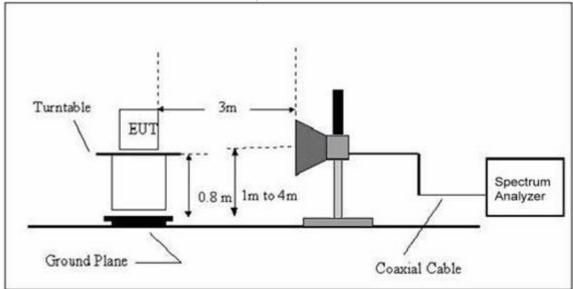


(B) Radiated Emission Test-Up Frequency 30MHz~1GHz





(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:	3G Feature Phone	Model Name :	B8303
Temperature :	20 ℃	Relative Humidity:	48%
Pressure:	1010 hPa	Test Voltage :	DC 3.7V
Test Mode :	TX	Polarization :	

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Freq.	Reading	Limit	Margin	State
(MHz)	(dBuV/m)	(dBuV/m)	(dB)	P/F
				N/A
				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 =20 log (specific distance/test distance)(dB); Limit line = specific limits(dBuv) + distance extrapolation factor.



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3.2.7 TEST RESULTS (BETWEEN 30M - 1000 MHZ)

EUT:	3G Feature Phone	Model Name :	B8303
Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	1010hPa	Test Mode:	TX
Test Voltage :	DC3.7V		

Polar	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector
(H/V)	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	Туре
Vertical	39.2991	19.91	13.74	33.65	40.00	-6.35	QP
Vertical	44.1200	19.60	11.09	30.69	40.00	-9.31	QP
Vertical	102.7192	10.97	10.89	21.86	43.50	-21.64	QP
Vertical	157.0073	8.37	11.28	19.65	43.50	-23.85	QP
Vertical	263.8190	6.93	14.62	21.55	46.00	-24.45	QP
Vertical	564.6389	8.02	22.82	30.84	46.00	-15.16	QP
Horizontal	31.5095	6.39	17.66	24.05	40.00	-15.95	QP
Horizontal	45.2166	6.25	10.47	16.72	40.00	-23.28	QP
Horizontal	116.9495	6.93	12.01	18.94	43.50	-24.56	QP
Horizontal	263.8190	7.76	14.62	22.38	46.00	-23.62	QP
Horizontal	382.5879	13.04	17.30	30.34	46.00	-15.66	QP
Horizontal	833.3171	7.43	27.29	34.72	46.00	-11.28	QP



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3.2.8 TEST RESULTS (ABOVE 1000 MHZ)

EUT: 3G Feature Phone Model Name : B8303 Temperature : 20 ℃ Relative Humidity: 48% Pressure: 1010hPa Test Mode: TX Test Mode : DC3.7V

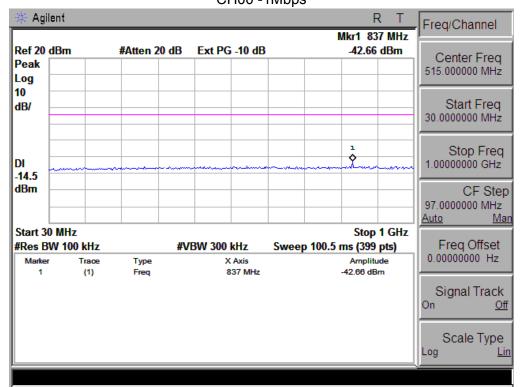
Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Detect	Polar
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре	(H/V)
Low Channel (2402 MHz)-Above 1G							
4804.000	66.14	-3.64	62.5	74	-11.5	Pk	Vertical
4804.000	48.45	-3.64	44.81	54	-9.19	AV	Vertical
7206.000	57.37	-0.95	56.42	74	-17.58	Pk	Vertical
7206.00	45.24	-0.95	44.29	54	-9.71	AV	Vertical
4804.000	63.51	-3.64	59.87	74	-14.13	Pk	Horizontal
4804.000	48.23	-3.64	44.59	54	-9.41	AV	Horizontal
7206.000	59.42	-0.96	58.46	74	-15.54	Pk	Horizontal
7206.000	49.11	-0.96	48.15	54	-5.85	AV	Horizontal
		Mid Ch	annel (2441 MHz)- <i>A</i>	Above 1G			
4882.000	68.42	-3.67	64.75	74	-9.25	Pk	Vertical
4882.000	49.72	-3.67	46.05	54	-7.95	AV	Vertical
7323.000	58.42	-0.82	57.6	74	-16.4	Pk	Vertical
7323.000	48.37	-0.82	47.55	54	-6.45	AV	Vertical
4882.000	60.32	-3.67	56.65	74	-17.35	Pk	Horizontal
4882.000	49.45	-3.67	45.78	54	-8.22	AV	Horizontal
7323.000	59.02	-0.82	58.2	74	-15.8	Pk	Horizontal
7323.000	49.34	-0.82	48.52	54	-5.48	AV	Horizontal
		High Ch	nannel (2480MHz)-	Above 1G			
4960.000	60.43	-3.59	56.84	74	-17.16	Pk	Vertical
4960.000	48.23	-3.59	44.64	54	-9.36	AV	Vertical
7440.000	54.52	-0.68	53.84	74	-20.16	Pk	Vertical
7440.000	43.33	-0.68	42.65	54	-11.35	AV	Horizontal
4960.000	65.43	-3.59	61.84	74	-12.16	Pk	Horizontal
4960.000	47.35	-3.59	43.76	54	-10.24	AV	Horizontal
7440.000	57.14	-0.68	56.46	74	-17.54	Pk	Horizontal
7440.000	44.43	-0.68	43.75	54	-10.25	AV	Horizontal

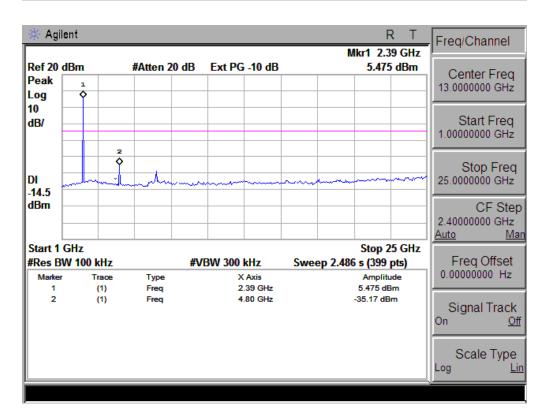
Note: Mode 1 Mbps is the worst mode.



Conducted Spurious Emissions at Antenna Port: CH00 -1Mbps

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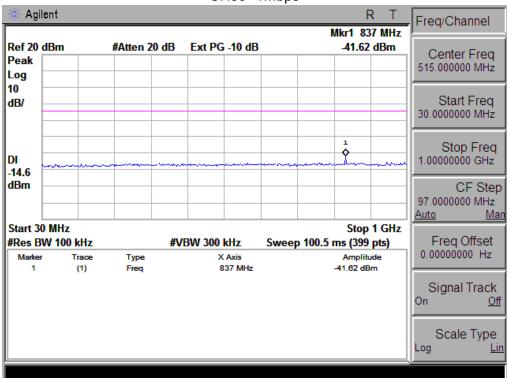


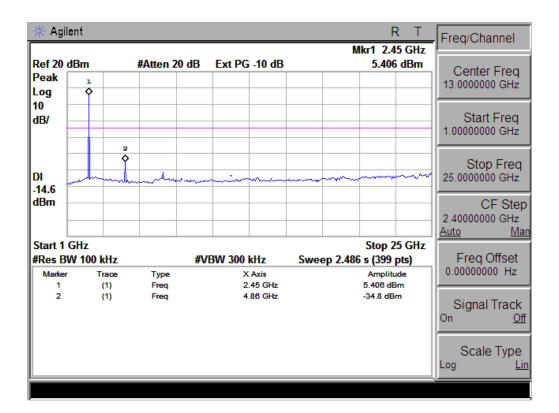




CH39 -1Mbps

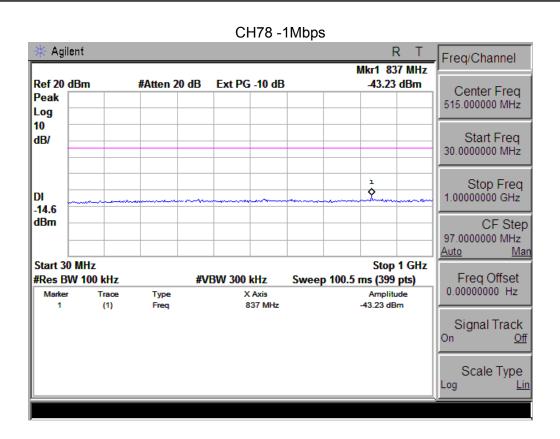
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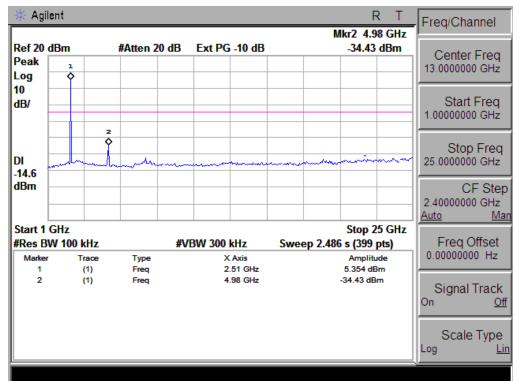




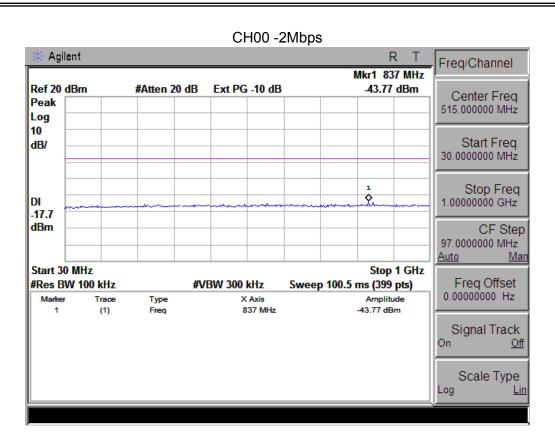


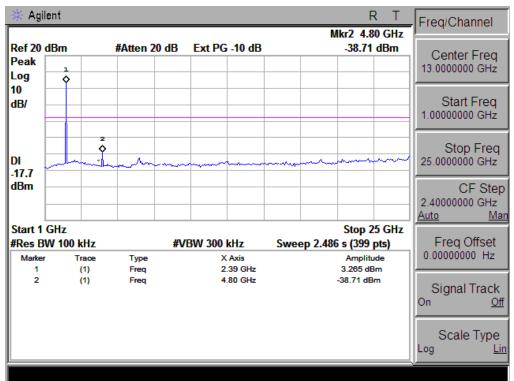








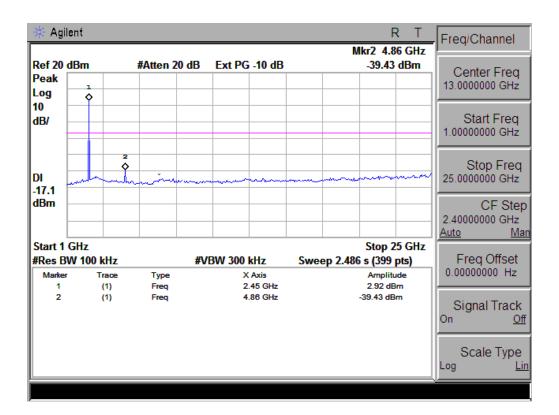




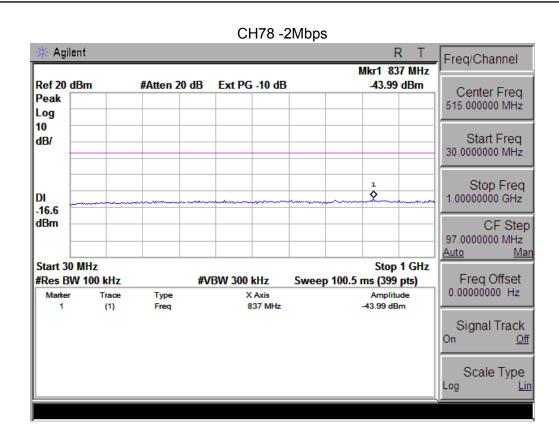


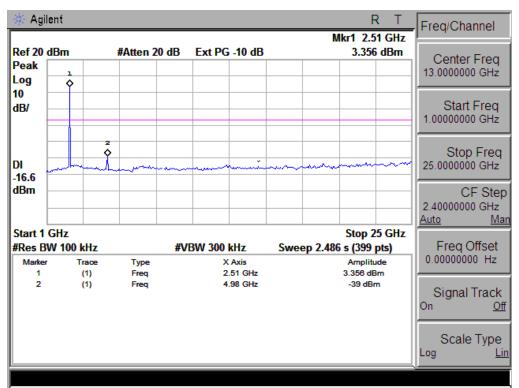
CH39 -2Mbps Agilent Freq/Channel Mkr1 837 MHz Ref 20 dBm Ext PG -10 dB -44.82 dBm #Atten 20 dB Center Freq Peak 515.000000 MHz Log 10 Start Freq dB/ 30.0000000 MHz Stop Freq 1.00000000 GHz Ŷ DI -17.1 dBm CF Step 97.0000000 MHz <u>Auto</u> Man Start 30 MHz Stop 1 GHz Freq Offset #Res BW 100 kHz **#VBW 300 kHz** Sweep 100.5 ms (399 pts) Amplitude 0.00000000 Hz Trace X Axis 837 MHz -44.82 dBm (1) Freq Signal Track On <u>Off</u> Scale Type

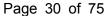
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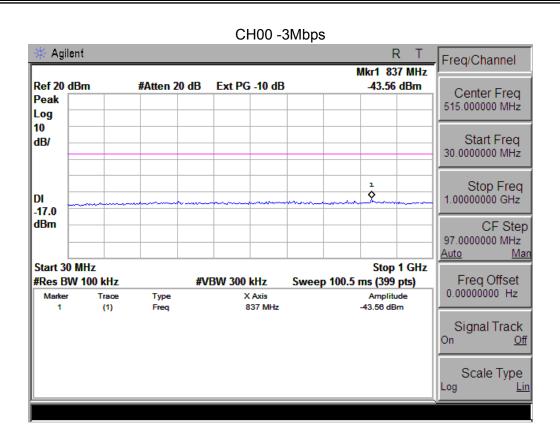


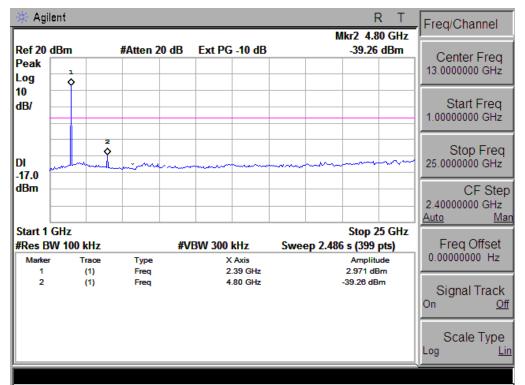








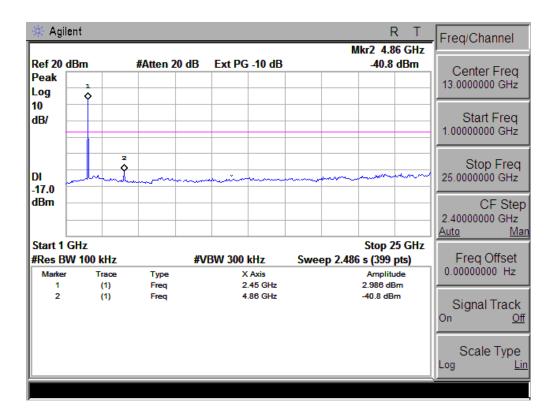




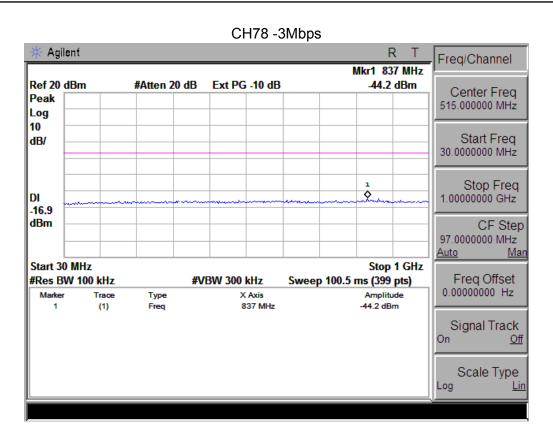


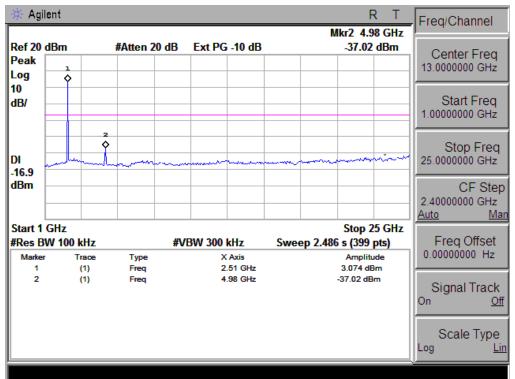
CH39 -3Mbps Agilent Peak Search Mkr1 837 MHz -44.19 dBm Ref 20 dBm Ext PG -10 dB #Atten 20 dB Peak Meas Tools > Log 10 dB/ Next Peak Next Pk Right Ŷ DI -17.0 dBm Next Pk Left Start 30 MHz Stop 1 GHz #Res BW 100 kHz **#VBW 300 kHz** Sweep 100.5 ms (399 pts) Min Search Amplitude -44.19 dBm Trace X Axis 837 MHz (1) Freq Pk-Pk Search More 1 of 2

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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	= the frequency band of operation
RB	RBW =100kHz
VB	$VBW \ge RBW$
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=300kHz, Sweep time = Auto.

4.1.2 DEVIATION FROM STANDARD

No deviation.

4.1.3 TEST SETUP



4.1.4 EUT OPERATION CONDITIONS

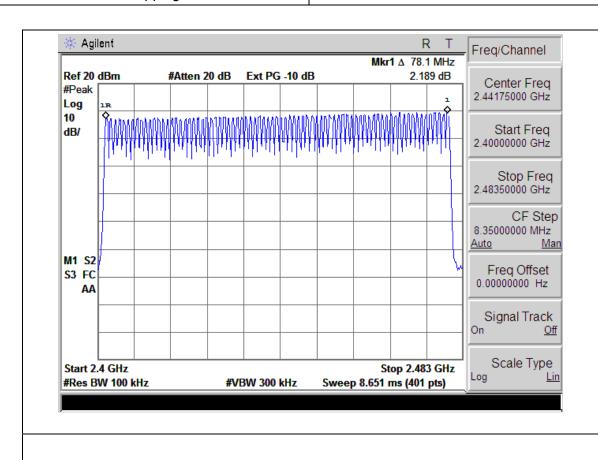
The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.



4.1.5 TEST RESULTS

EUT:	3G Feature Phone	Model Name :	B8303
Temperature :	25 ℃	Relative Humidity:	60%
Pressure:	1015 hPa	Test Voltage :	DC 3.7V
Test Mode :	Hopping Mode		

Number of Hopping Channel 79





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 3MHz.
- 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
- 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

NTEK



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.

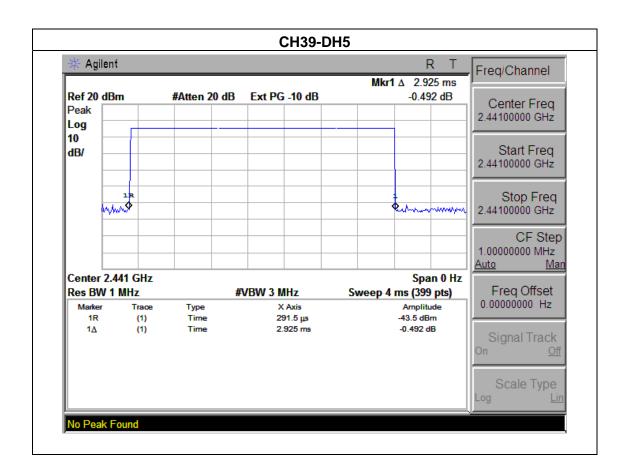


5.1.5 TEST RESULTS

EUT:	3G Feature Phone	Model Name :	B8303
Temperature :	25 ℃	Relative Humidity:	60%
Pressure :	1012 hPa	Test Voltage :	DC 3.7V
Test Mode :	CH39-DH5,2DH5,3DH5	·	

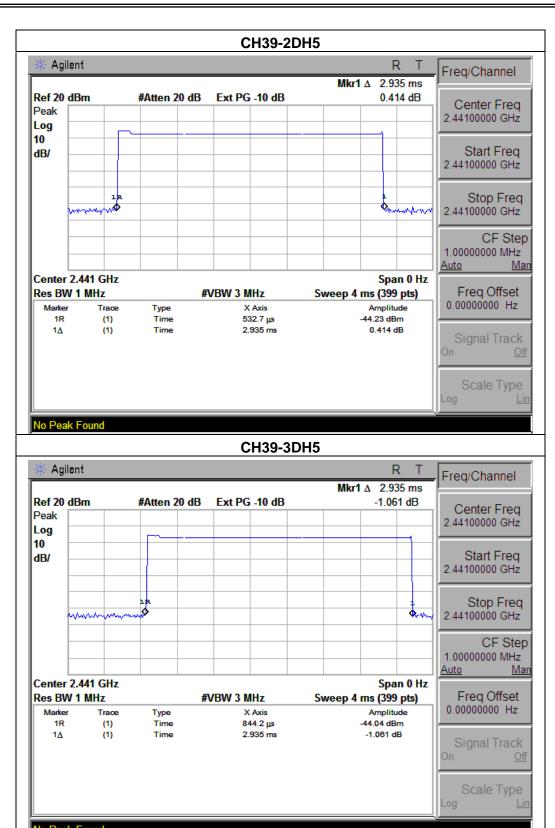
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Data Packet	Frequency	Pulse Duration (ms)	Dwell Time (s)	Limits (s)
DH5	2441 MHz	2.93	0.31	0.4
2DH5	2441 MHz	2.94	0.31	0.4
3DH5	2441 MHz	2.94	0.31	0.4







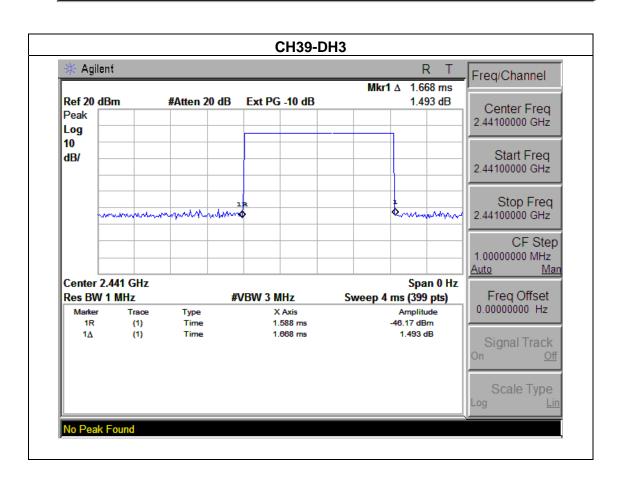




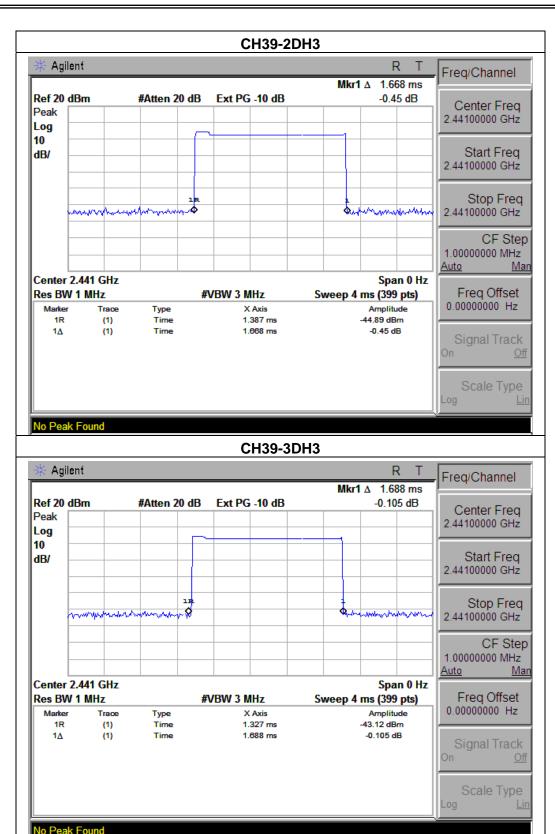
EUT:	3G Feature Phone	Model Name :	B8303
Temperature :	25 ℃	Relative Humidity:	60%
Pressure:	1012 hPa	Test Voltage :	DC 3.7V
Test Mode :	CH39-DH3,2DH3,3DH3		

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Data Packet	Frequency	Pulse Duration (ms)	Dwell Time (s)	Limits (s)
DH3	2441 MHz	1.67	0.27	0.4
2DH3	2441 MHz	1.67	0.27	0.4
3DH3	2441 MHz	1.69	0.27	0.4









EUT: 3G Feature Phone Model Name: B8303

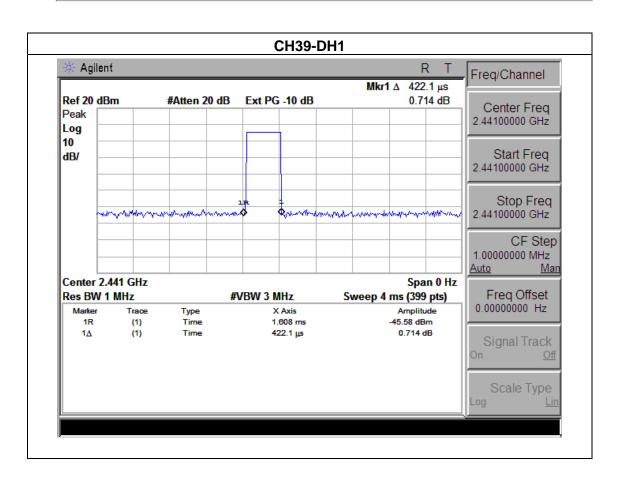
Temperature: 25 °C Relative Humidity: 60%

Pressure: 1012 hPa Test Voltage: DC 3.7V

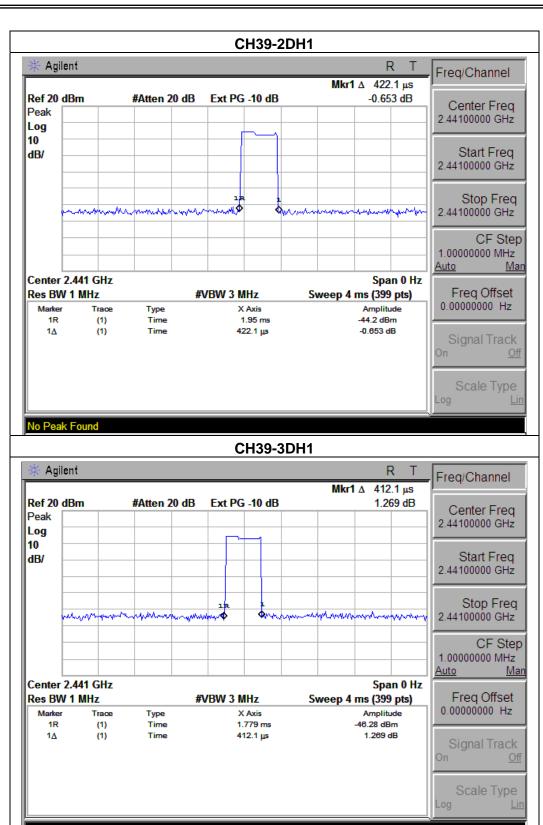
Test Mode: CH39-DH1,2DH1,3DH1

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Data Packet	Frequency	Pulse Duration (ms)	Dwell Time (s)	Limits (s)
DH1	2441 MHz	0.42	0.14	0.4
2DH1	2441 MHz	0.42	0.14	0.4
3DH1	2441 MHz	0.41	0.13	0.4







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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	30 kHz
VB	100 kHz
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 30 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.

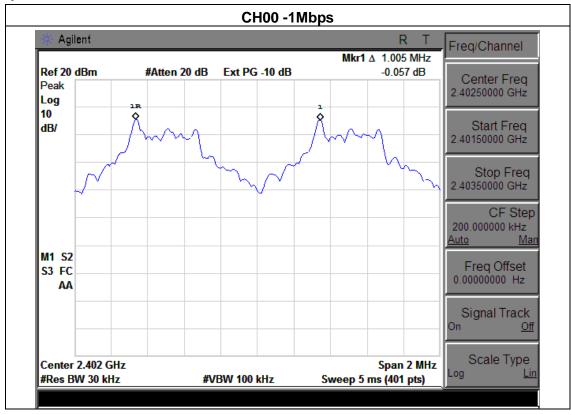


6.1.5 TEST RESULTS

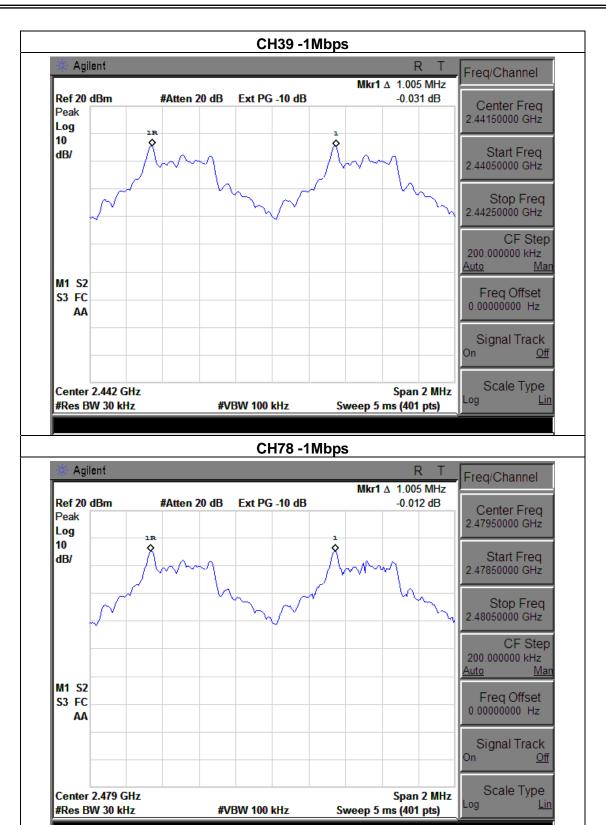
EUT:	3G Feature Phone	Model Name :	B8303
Temperature :	25 ℃	Relative Humidity:	60%
Pressure:	1012 hPa	Test Voltage :	DC 3.7V
Test Mode :	CH00 / CH39 /CH78 (1Mbps Mode)		

Frequency	Ch. Separation (MHz)	Result
2402 MHz	1.005	Complies
2441 MHz	1.005	Complies
2480 MHz	1.005	Complies

Ch. Separation Limits: >20dB bandwidth









EUT: 3G Feature Phone Model Name: B8303

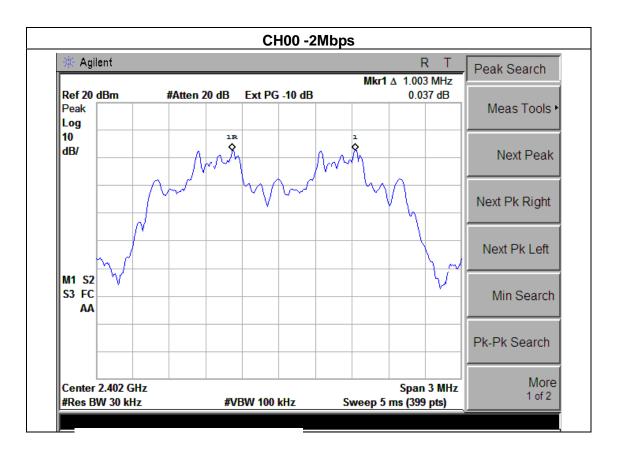
Temperature: 25 °C Relative Humidity: 60%

Pressure: 1012 hPa Test Voltage: DC 3.7V

Test Mode: CH00 / CH39 /CH78 (2Mbps Mode)

Frequency	Ch. Separation (MHz)	Result
2402 MHz	1.003	Complies
2441 MHz	1.003	Complies
2480 MHz	1.003	Complies

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



Scale Type

Lin

Log

Span 3 MHz

Sweep 5 ms (399 pts)

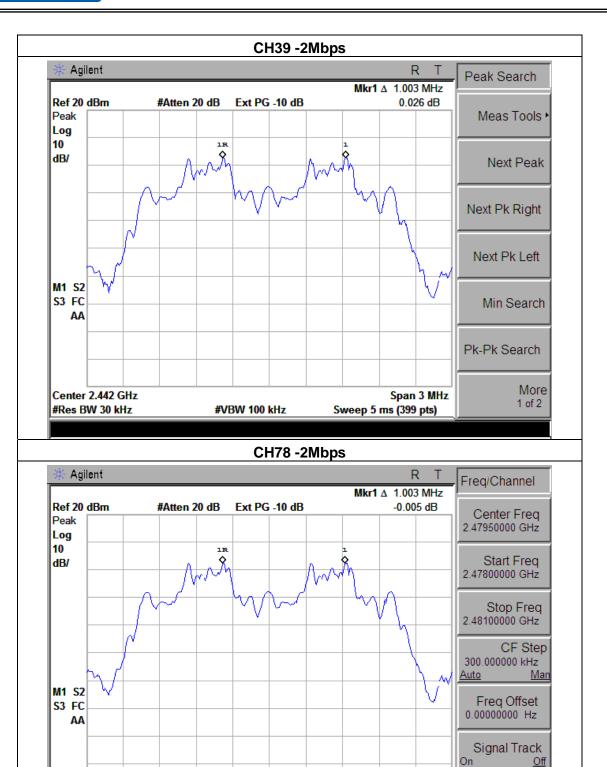
#VBW 100 kHz





Center 2.479 GHz

#Res BW 30 kHz





EUT: 3G Feature Phone Model Name: B8303

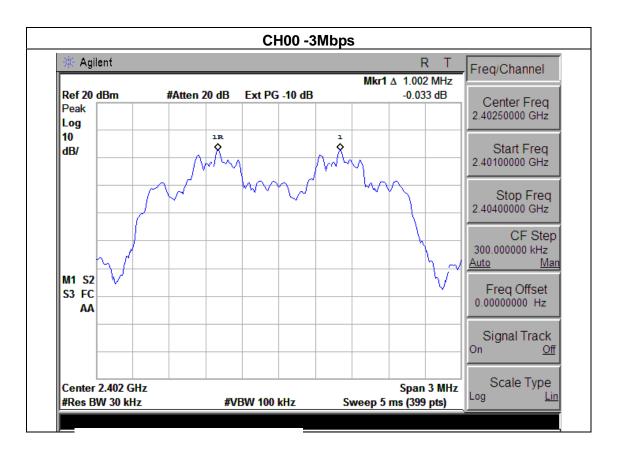
Temperature: 25 °C Relative Humidity: 60%

Pressure: 1012 hPa Test Voltage: DC 3.7V

Test Mode: CH00 / CH39 /CH78 (3Mbps Mode)

Frequency	Ch. Separation (MHz)	Result
2402 MHz	1.002	Complies
2441 MHz	1.002	Complies
2480 MHz	1.002	Complies

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



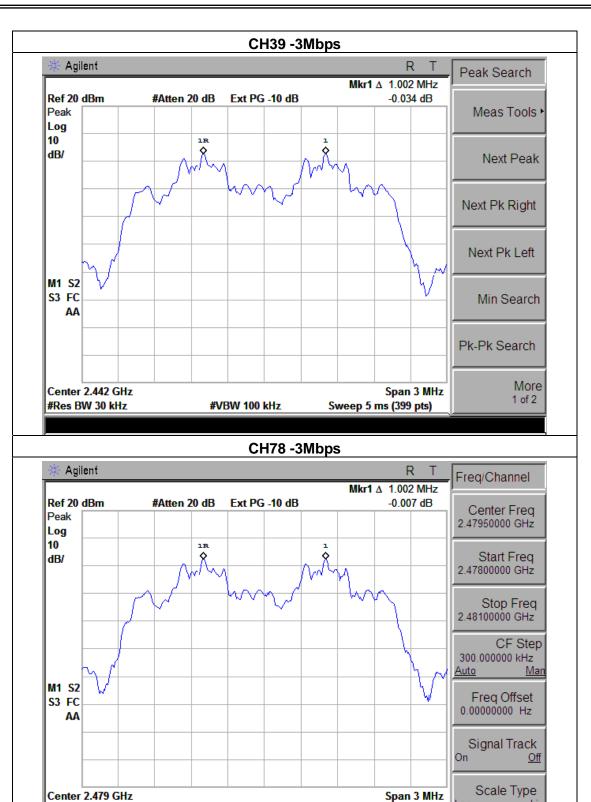
Log

Sweep 5 ms (399 pts)

Lin



#Res BW 30 kHz



#VBW 100 kHz



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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

- 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.

7.1.2 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.

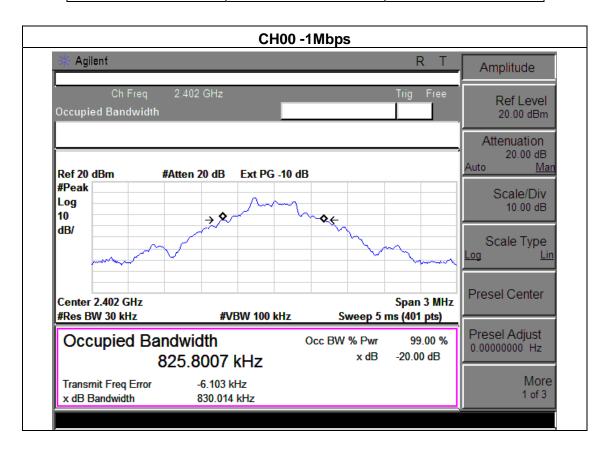


7.1.5 TEST RESULTS

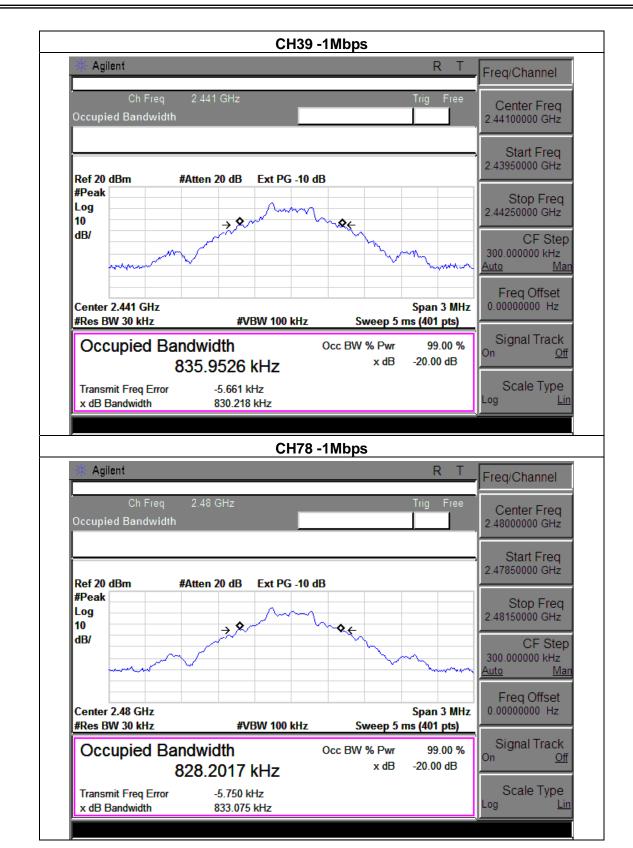
EUT:	3G Feature Phone	Model Name :	B8303
Temperature :	25 ℃	Relative Humidity:	60%
Pressure :	1012 hPa	Test Voltage :	DC 3.7V
Test Mode :	CH00 / CH39 /C78(1Mbps)	•	

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Frequency	20dB Bandwidth (kHz)	Result
2402 MHz	830.014	PASS
2441 MHz	830.218	PASS
2480 MHz	833.075	PASS







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EUT: 3G Feature Phone Model Name: B8303

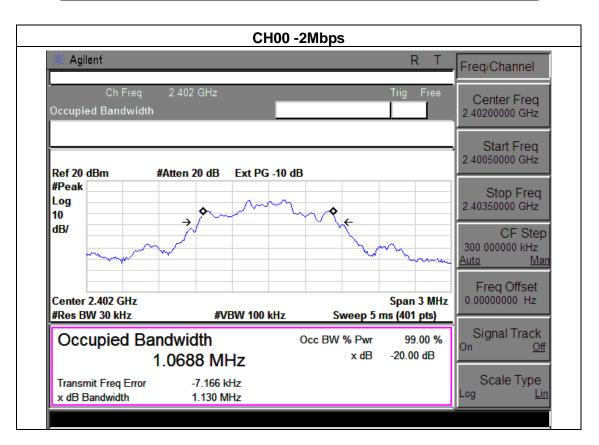
Temperature: 25 °C Relative Humidity: 60%

Pressure: 1012 hPa Test Voltage: DC 3.7V

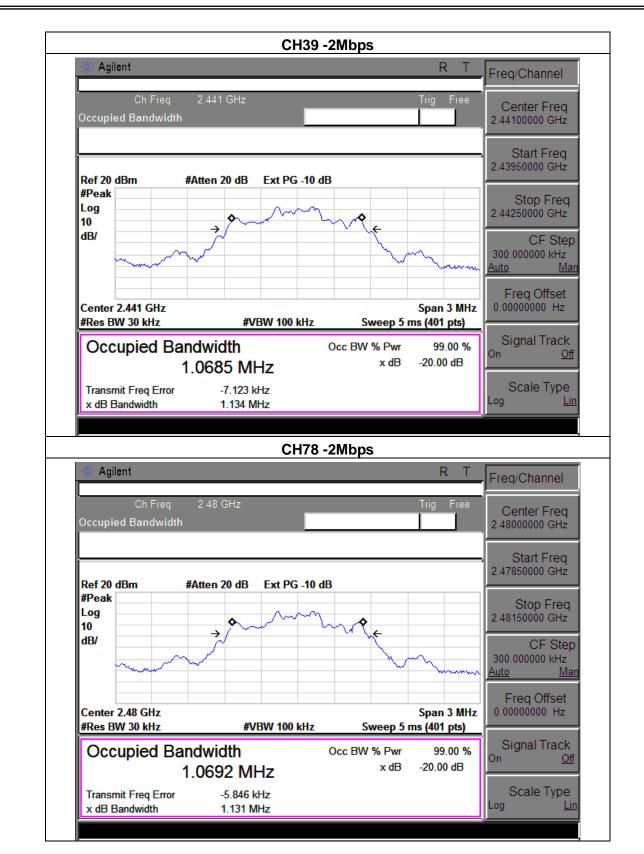
Test Mode: CH00 / CH39 /C78(2Mbps)

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Frequency	20dB Bandwidth (MHz)	Result
2402 MHz	1.130	PASS
2441 MHz	1.134	PASS
2480 MHz	1.131	PASS









EUT: 3G Feature Phone Model Name: B8303

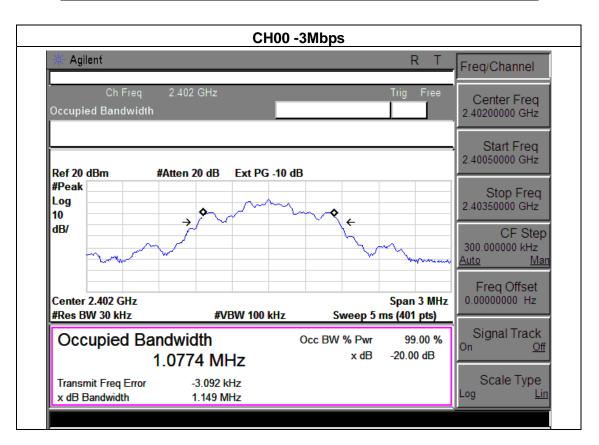
Temperature: 25 °C Relative Humidity: 60%

Pressure: 1012 hPa Test Voltage: DC 3.7V

Test Mode: CH00 / CH39 /C78(3Mbps)

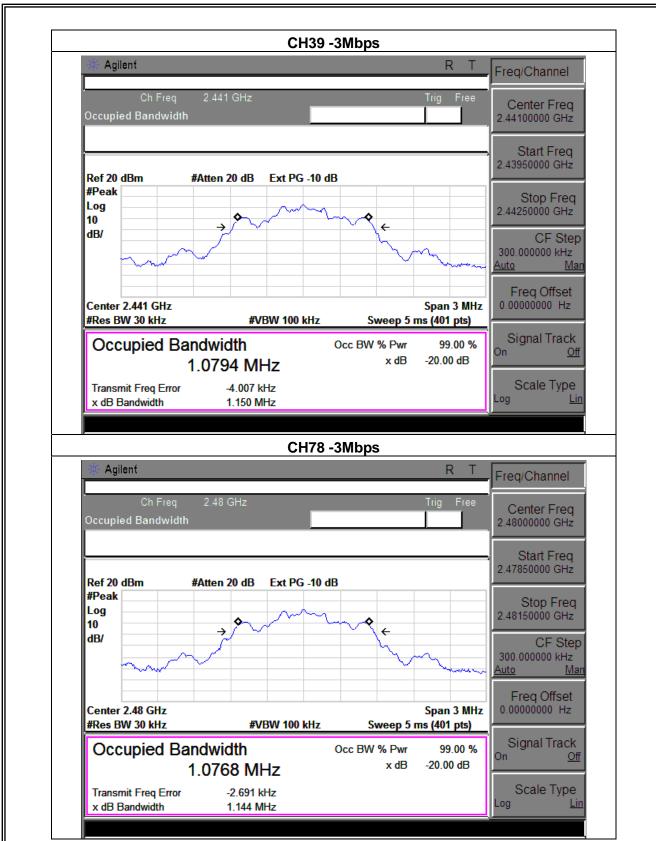
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Frequency	20dB Bandwidth (MHz)	Result
2402 MHz	1.149	PASS
2441 MHz	1.150	PASS
2480 MHz	1.144	PASS











8. PEAK OUTPUT POWER TEST

8.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C					
Section Test Item Limit Frequency Range (MHz)					
15.247 (b)(i)	Peak Output Power	0.125 w or 1w	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

 $VBW \geq RBW$

Sweep = auto

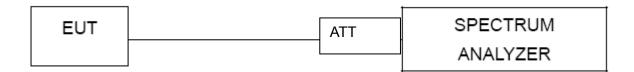
Detector function = peak

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.

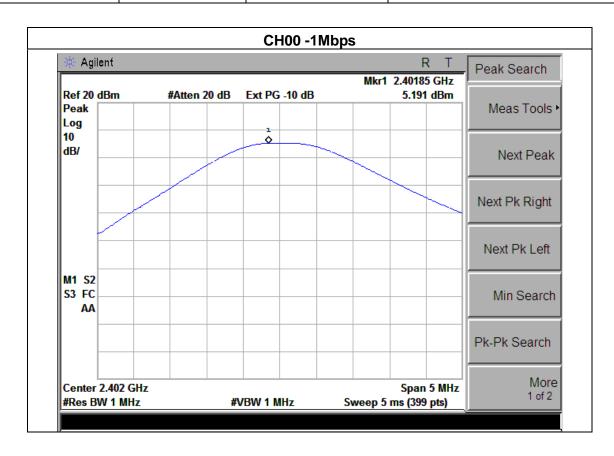


8.1.5 TEST RESULTS

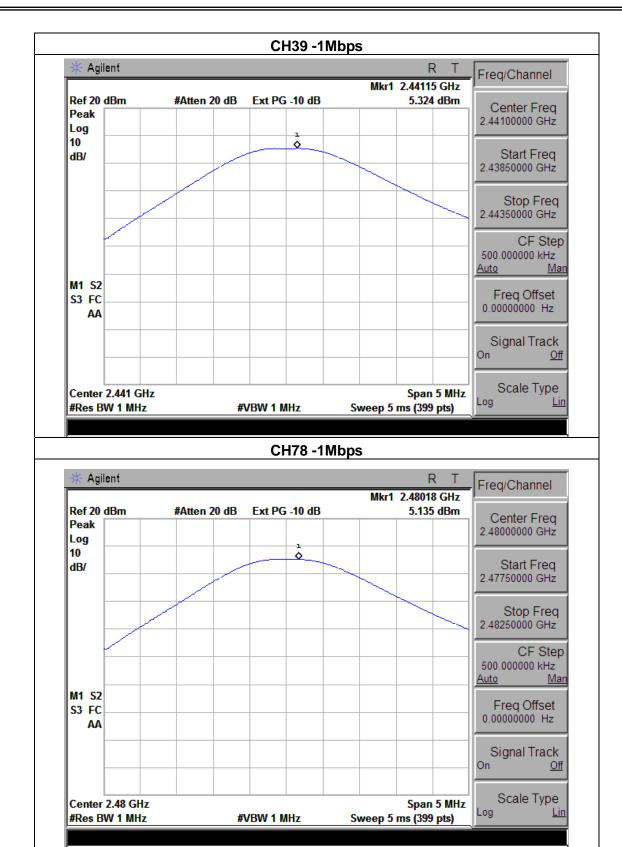
EUT:	3G Feature Phone	Model Name :	B8303	
Temperature:	25 ℃	Relative Humidity:	60%	
Pressure :	1012 hPa	Test Voltage :	DC 3.7V	
Test Mode :	CH00/ CH39 /CH78 (1M/2M/3Mbps Mode)			

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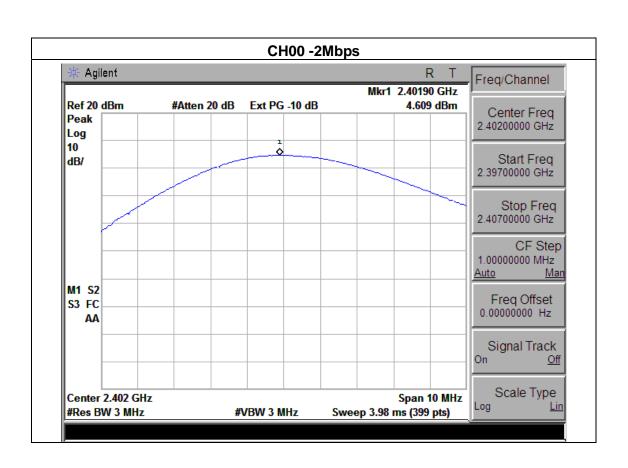
1Mbps				
Test Channel	Frequency (MHz)	Peak Output Power (dBm)	LIMIT (dBm)	
CH00	2402	5.191	30	
CH39	2441	5.324	30	
CH78	2480	5.135	30	
		2Mbps		
CH00	2402	4.609	20.96	
CH39	2441	4.646	20.96	
CH78	2480	5.18	20.96	
		3Mbps		
CH00	2402	4.714	20.96	
CH39	2441	4.655	20.96	
CH78	2480	4.548	20.96	



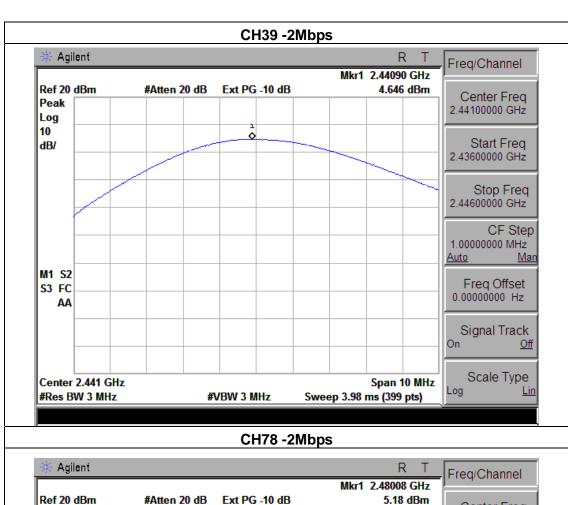


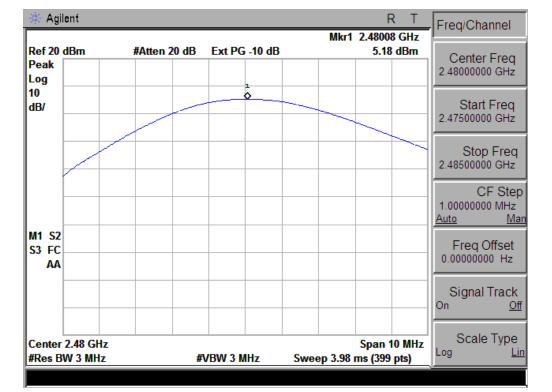




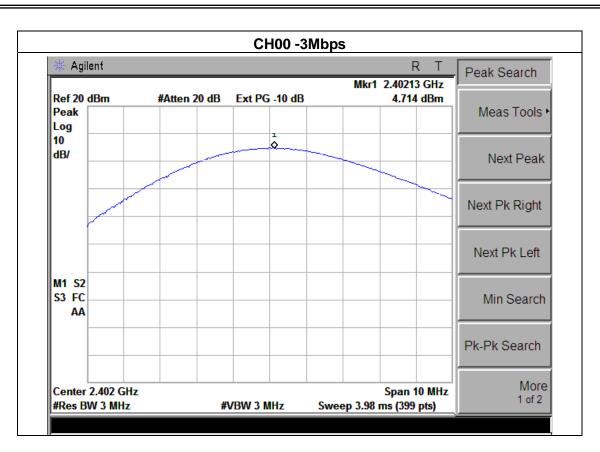






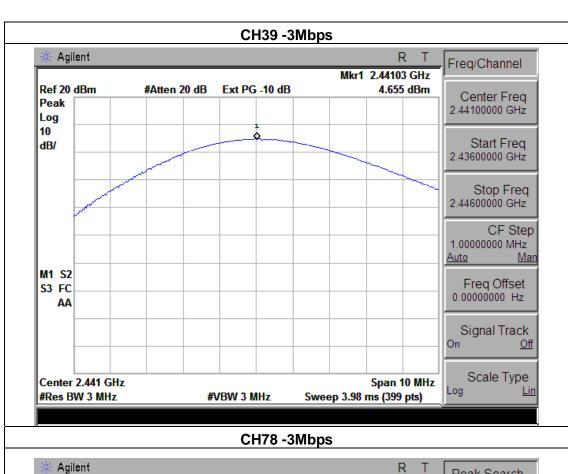


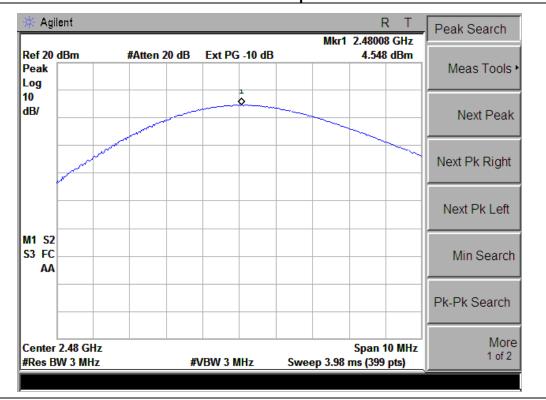














9. 100 KHZ BANDWIDTH OF FREQUENCY BAND EDGE APPLICABLE STANDARD

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.

9.1 DEVIATION FROM STANDARD

No deviation.

9.2 TEST SETUP



9.3 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.



9.4 TEST RESULTS

EUT:	3G Feature Phone	Model Name :	B8303
Temperature:	25 ℃	Relative Humidity:	60%
Pressure:	1012 hPa	Test Voltage :	DC 3.7V

Frequency Band	Delta Peak to band emission (dBc)	>Limit (dBc)	Result				
	1Mbps Non-hopp	ping					
Left-band	52.95	20	Pass				
Right-band	53.20	20	Pass				
	2Mbps Non-hopp	oing					
Left-band	50.84	20	Pass				
Right-band	52.73	20	Pass				
	3Mbps Non-hopp	ping					
Left-band	52.01	20	Pass				
Right-band	51.60	20	Pass				
	1Mbps hopping	g					
Left-band	53.70	20	Pass				
Right-band	52.88	20	Pass				
	2Mbps hopping	g					
Left-band	51.30	20	Pass				
Right-band	52.17	20	Pass				
	3Mbps hopping						
Left-band	51.16	20	Pass				
Right-band	52.48	20	Pass				

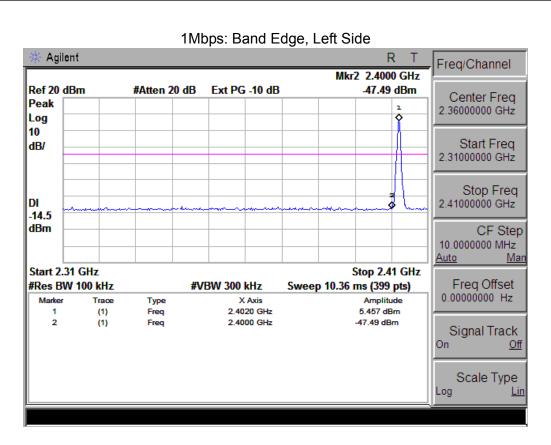


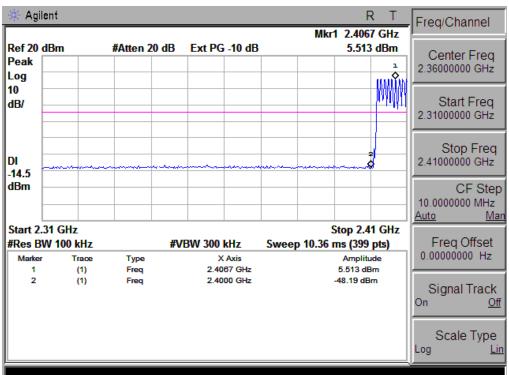
Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector		
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре	Comment	
			1Mbps Non-hoppi	ng		•	•	
2390	59.68	-13.06	46.62	74	-27.38	peak	Vertical	
2390	59.42	-13.06	46.36	74	-27.64	peak	Horizontal	
2483.5	59.83	-12.78	47.05	74	-26.95	peak	Vertical	
2483.5	58.36	-12.78	45.58	74	-28.42	peak	Horizontal	
		;	2Mbps Non-hoppii	ng				
2390	58.77	-13.06	45.71	74	-28.29	peak	Vertical	
2390	58.58	-13.06	45.52	74	-28.48	peak	Horizontal	
2483.5	60.65	-12.78	47.87	74	-26.13	peak	Vertical	
2483.5	60.79	-12.78	48.01	74	-25.99	peak	Horizontal	
	3Mbps Non-hopping							
2390	61.92	-13.06	48.86	74	-25.14	peak	Vertical	
2390	61.84	-13.06	48.78	74	-25.22	peak	Horizontal	
2483.5	59.35	-12.78	46.57	74	-27.43	peak	Vertical	
2483.5	59.28	-12.78	46.5	74	-27.5	peak	Horizontal	

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

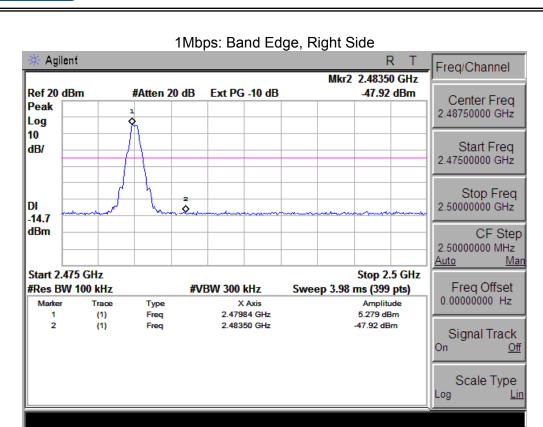




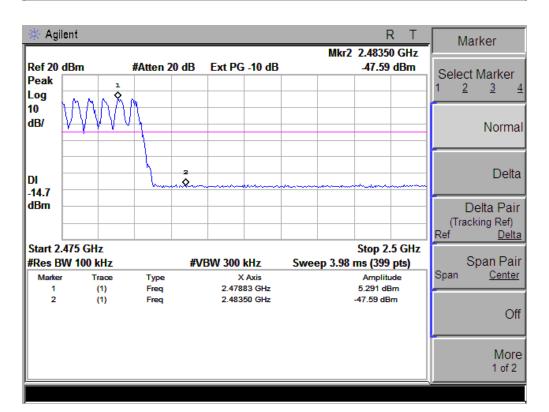


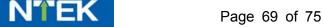


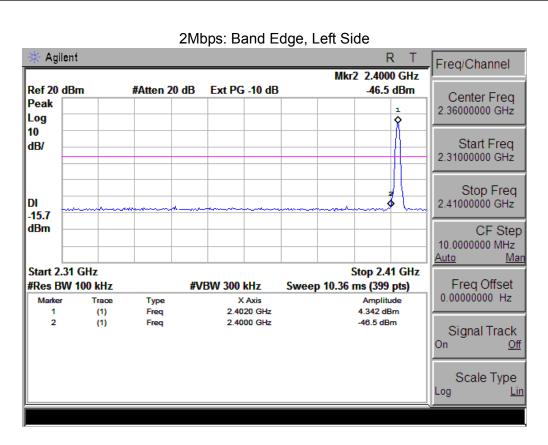




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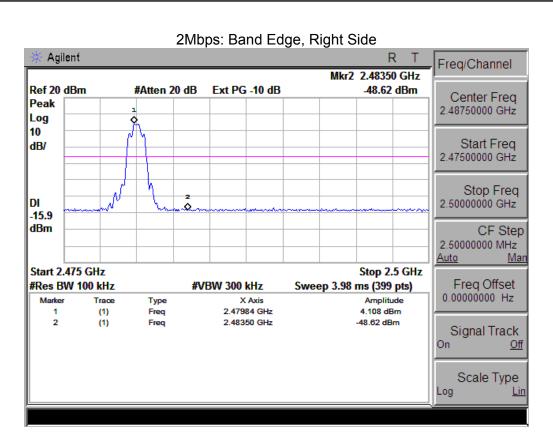


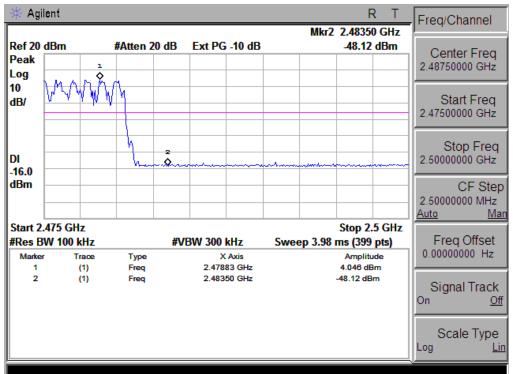




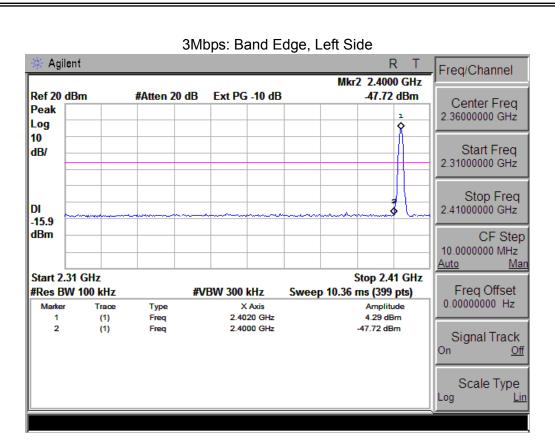




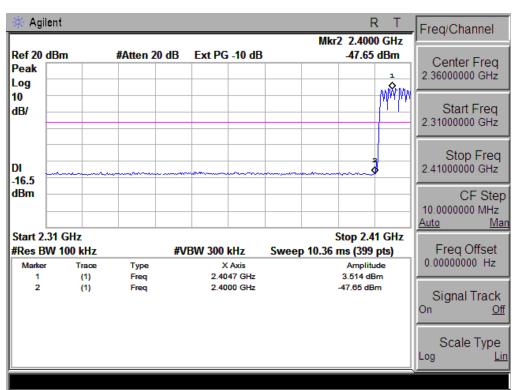




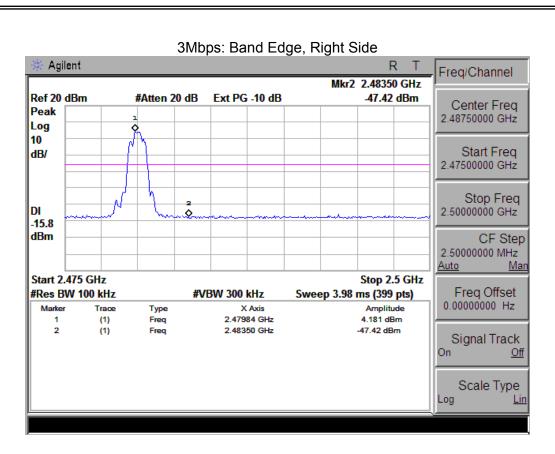




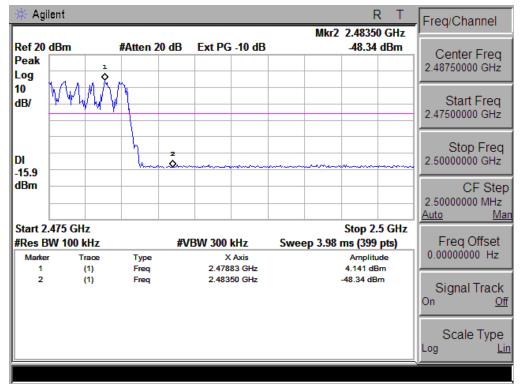
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10. ANTENNA REQUIREMENT

10.1 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.

10.2 EUT ANTENNA

Γhe EU	T anteni	na is Bu	ilt-in antenna	ı. It compl	ly with th	าe standa	rd require	ment.



11. EUT TEST PHOTO



