

FCC Radio Test Report FCC ID:SIB-BGTAB-NV20A-1

This report concerns	(check one):	⊠Original Grant	Class II Change
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Project No. : 1411C076
Equipment : dreamtab
Model Name : BGTAB-NV20A

Applicant: Foxconn International Inc

Address : NO 2 ZIYOU ST TUCHENG DISTRICT NEW TAIPEI

Taiwan 236

Date of Receipt : Nov. 10, 2014

Date of Test : Nov. 10, 2014~Nov. 26, 2014

Issued Date : Nov. 27, 2014

Tested by : BTL Inc.

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Declaration

BTL represents to the client that testing is done in accordance with standard procedures as applicable and that test instruments used has been calibrated with the standards traceable to National Measurement Laboratory (NML) of R.O.C, or National Institute of Standards and Technology (NIST) of U.S.A.

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REPORT ISSUED HISTORY

Issued No.	Description	Issued Date
BTL-FCCP-2-1411C076	Original Issue.	Nov. 27, 2014

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1. CERTIFICATION

Equipment : dreamtab Brand Name : Nabi

Model Name: BGTAB-NV20A

Applicant : Foxconn International Inc

Manufacturer: FUHU INC.

Address : 909N., Sepulveda Blvd., Suite 540, E1 Segundo, CA 90245 Factory : HONGFUJIN Precision Electronics (Chong Qing) Co., Ltd.

Address : No.1, 1st E District RD., Shapingba District, Chongqing 401332, P.R. China

Date of Test : Nov. 10, 2014~Nov. 26, 2014 Test Sample : ENGINEERING SAMPLE

Standard(s) : FCC Part15, Subpart C :2013 (15.247) / ANSI C63.4-2009

The above equipment has been tested and found compliance with the requirement of the relative standards by BTL Inc.

The test data, data evaluation, and equipment configuration contained in our test report (Ref No. BTL-FCCP-2-1411C076) were obtained utilizing the test procedures, test instruments, test sites that has been accredited by the Authority of TAF according to the ISO-17025 quality assessment standard and technical standard(s).

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2. SUMMARY OF TEST RESULTS

Test procedures according to the technical standard(s):

Applied Standard(s): FCC Part15 (15.247), Subpart C					
Standard(s) Section	Test Item	Judgment	Remark		
15.207	Conducted Emission	PASS			
15.247(d)	Antenna conducted Spurious Emission	PASS			
15.247(a)(2)	6dB Bandwidth	PASS			
15.247(b)(3)	Peak Output Power	PASS			
15.247(e)	Power Spectral Density	PASS			
15.203	Antenna Requirement	PASS			
15.209/15.205	Transmitter Radiated Emissions	PASS			

NOTE:

- (1)" N/A" denotes test is not applicable to this device.
- (2) The test follows FCC KDB Publication No. 558074 D01 DTS Meas Guidance v03r02 (Measurement Guidelines of DTS)

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2.1 TEST FACILITY

The test facilities used to collect the test data in this report is **DG-C02/DG-CB03** at the location of No.3, Jinshagang 1st Road, Shixia, Dalang Town, Dongguan, Guangdong, China.523792 BTL's test firm number for FCC: 319330

2.2 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

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 %.

A. Conducted Measurement:

Test Site	Method	Measurement Frequency Range	U, (dB)	Note
DG-C02	CISPR	150 KHz ~ 30MHz	1.94	

B. Radiated Measurement:

Test Site	Method	Measurement Frequency Range	Ant. H / V	U, (dB)	Note
		9KHz~30MHz	V	3.79	
		9KHz~30MHz	Н	3.57	
		30MHz ~ 200MHz	V	3.82	
		30MHz ~ 200MHz	Н	3.60	
DG-CB03	CISPR	200MHz ~ 1,000MHz	V	3.86	
DG-CD03	CISEIX	200MHz ~ 1,000MHz	Н	3.94	
		1GHz~18GHz	V	3.12	
		1GHz~18GHz	Н	3.68	
		18GHz~40GHz	V	4.15	
		18GHz~40GHz	Н	4.14	

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3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

Equipment	dreamtab			
Brand Name	Nabi	Nabi		
Model Name	BGTAB-NV20A			
Model Difference	N/A			
	Operation Frequency	2402~2480 MHz		
Product Description	Modulation Technology	GFSK(1Mbps)		
	Bit Rate of Transmitter	Or Or(TWOPS)		
	Output Power (Max.)	7.46dBm (1Mbps)		
Power Source	 #1 DC supplied from AC Adapter. Model: ADS-65LSI-19-3 19065G #2 Supplied from rechargeable Li-ion polymer battery. 1) Brand / Model: McNair / MLP2462113-2S 2) Manufacturer: HongKong Highpower Technology Co., Ltd Model: IN484 			
Power Rating	#1 I/P AC 100-240V~ 50/60Hz 1.5A O/P: DC 19V 3.42A #2 7.4V 1650mAh 12.21Wh			

Note:

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

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2. Channel List:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
00	2402	20	2442
01	2404	21	2444
02	2406	22	2446
03	2408	23	2448
04	2410	24	2450
05	2412	25	2452
06	2414	26	2454
07	2416	27	2456
08	2418	28	2458
09	2420	29	2460
10	2422	30	2462
11	2424	31	2464
12	2426	32	2466
13	2428	33	2468
14	2430	34	2470
15	2432	35	2472
16	2434	36	2474
17	2436	37	2476
18	2438	38	2478
19	2440	39	2480

3. Table for Filed Antenna:

The product has 2 group antenna: MAG Corporation and FOXCONN.

Group 1

Ant.	Manufacturer	Model Name	Antenna Type	Connector	Gain (dBi)
1	FOXCONN	PCA-3007-25GC1-A3	PIFA	N/A	2.32
2	FOXCONN	PCA-3007-25GC1-A4	PIFA	N/A	0.21

Group 2

Ant.	Manufacturer	Model Name	Antenna Type	Connector	Gain (dBi)
1	MAG Corporation	NABI(19.5)	PIFA	N/A	2.45
2	MAG Corporation	NABI(19.5)	PIFA	N/A	3.29

Note: Two groups of antenna used with the same type, only differ in manufacturer and gain, group 2 is tested and recorded as the worst case in this report.

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3.2 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	TX Mode NOTE (1)
Mode 2	TX Mode

The EUT system operated these modes were found to be the worst case during the pre-scanning test as following:

For Conducted Test		
Final Test Mode Description		
Mode 2	TX Mode	

For Radiated Test		
Final Test Mode	Description	
Mode 1	TX Mode NOTE (1)	

Note:

- (1) The measurements are performed at the high, middle, low available channels.
- (2) The EUT is considered a portable unit; it was pre-tested on the positioned of each 3 axis. The worst case was found positioned on Z-plane. Therefore only the test data of this Z-plane was used for radiated emission measurement test.

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3.3 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 WLAN

Test Software Version		N/A	
Frequency (MHz)	2402	2440	2480
BT LE	N/A	N/A	N/A

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3.4 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

EUT

3.5 DESCRIPTION OF SUPPORT UNITS

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.	FCC ID/IC	Series No.	Note
-	-	-	-	-	-	

Item	Shielded Type	Ferrite Core	Length	Note
-	-	ı	-	-

Note:

(1) For detachable type I/O cable should be specified the length in m in <code>"Length_"</code> column.

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4. EMC EMISSION TEST

4.1 CONDUCTED EMISSION MEASUREMENT

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

Fraguency of Emission (MHz)	Conducted Limit (dBµV)		
Frequency of Emission (MHz)	Quasi-peak	Average	
0.15 -0.5	66 to 56*	56 to 46*	
0.50 -5.0	56	46	
5.0 -30.0	60	50	

Note:

- (1) The limit of " * " decreases with the logarithm of the frequency
- (2) The test result calculated as following: Measurement Value = Reading Level + Correct Factor Correct Factor = Antenna Factor + Cable Loss - Amplifier Gain(if use) Margin Level = Measurement Value - Limit Value

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

4.1.2 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.

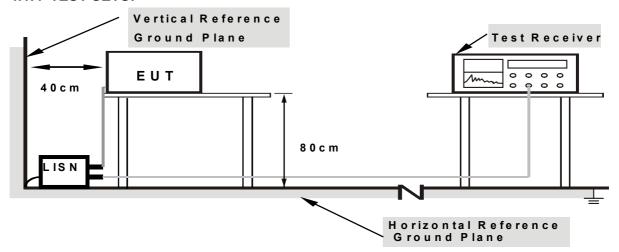
4.1.3 DEVIATION FROM TEST STANDARD

No deviation

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4.1.4 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

4.1.5 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.

4.1.6 EUT TEST CONDITIONS

Temperature: 25°C Relative Humidity: 55% Test Voltage: AC 120V/60Hz

4.1.7 TEST RESULTS

Please refer to the Attachment A.

Remark:

- (1) All readings are QP Mode value unless otherwise stated AVG in column of Note . If the QP Mode Measured value compliance with the QP Limits and lower than AVG Limits, the EUT shall be deemed to meet both QP & AVG Limits and then only QP Mode was measured, but AVG Mode didn't perform. In this case, a " * " marked in AVG Mode column of Interference Voltage Measured.
- (2) Measuring frequency range from 150KHz to 30MHz.
- (3) " N/A" denotes test is not applicable to this device.

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4.2 RADIATED EMISSION MEASUREMENT

4.2.1 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)	(microvolts/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
960~1000	500	3

Section 15.33 Frequency range of radiated measurements.

Unless otherwise noted in the specific rule section under which the equipment operates for an intentional radiator the spectrum shall be investigated from the lowest radio frequency signal generated in the device, without going below 9 kHz, up to at least the frequency shown in this paragraph:

- (1) If the intentional radiator operates below 10 GHz: to the tenth harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower.
- (2) If the intentional radiator operates at or above 10 GHz and below 30 GHz: to the fifth harmonic of the highest fundamental frequency or to 100 GHz, whichever is lower.
- (3) If the intentional radiator operates at or above 30 GHz: to the fifth harmonic of the highest fundamental frequency or to 200 GHz, whichever is lower, unless specified otherwise elsewhere in the rules
- (4) If the intentional radiator contains a digital device, regardless of whether this digital device controls the functions of the intentional radiator or the digital device is used for additional control or function purposes other than to enable the operation of the intentional radiator, the frequency range shall be investigated up to the range specified in paragraphs (a)(1)-(a)(3) of this section or the range applicable to the digital device, as shown in paragraph (b)(1) of this Section, whichever is the higher frequency range of investigation.

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Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RBW / VBW	AND I / AND I for Dook A MUI / ADD I for Average
(Emission in restricted band)	1MHz / 1MHz for Peak, 1 MHz / 10Hz for Average

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~90kHz for PK/AVG detector
Start ~ Stop Frequency	90kHz~110kHz for QP detector
Start ~ Stop Frequency	110kHz~490kHz for PK/AVG detector
Start ~ Stop Frequency	490kHz~30MHz for QP detector
Start ~ Stop Frequency	30MHz~1000MHz for QP detector

4.2.2 TEST PROCEDURE

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1GHz)
- b. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(above 1GHz)
- 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.

4.2.3 DEVIATION FROM TEST STANDARD

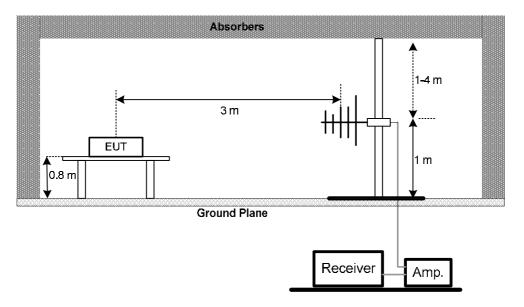
No deviation

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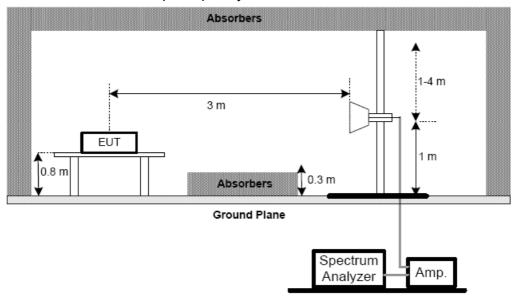


4.2.4 TEST SETUP

(A) Radiated Emission Test Set-Up Frequency Below 1 GHz



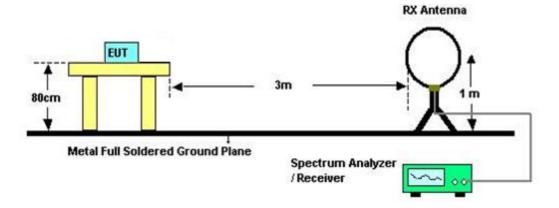
(B) Radiated Emission Test Set-Up Frequency Above 1 GHz



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(C) For radiated emissions below 30MHz



4.2.5 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of **4.1.5 Unless** otherwise a special operating condition is specified in the follows during the testing.

4.2.6 EUT TEST CONDITIONS

Temperature: 25°C Relative Humidity: 55% **Test Voltage**: DC 7.4V

4.2.7TEST RESULTS (9KHZ TO 30MHZ)

Please refer to the Attachment B

Remark:

- (1) The amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value has no need to be reported.
- (2) Distance extrapolation factor = 40 log (specific distance / test distance) (dB).
- (3) Limit line = specific limits (dBuV) + distance extrapolation factor.

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4.2.8TEST RESULTS (BETWEEN 30MHZ TO 1000 MHZ) Please refer to the Attachment C.

Remark:

- (1) Reading in which marked as QP or Peak means measurements by using are Quasi-Peak Mode or Peak Mode with Detector BW=120KHz; SPA setting in RBW=120KHz, VBW =120KHz, Swp. Time = 0.3 sec./MHz.
- (2) All readings are Peak unless otherwise stated QP in column of 『Note』. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform.
- (3) Measuring frequency range from 30MHz to 1000MHz.
- (4) If the peak scan value lower limit more than 20dB, then this signal data does not show in table.

4.2.9TEST RESULTS (ABOVE 1000 MHZ)

Please refer to the Attachment D.

Remark:

- (1) All readings are Peak unless otherwise stated QP in column of 『Note』. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform.
- (2) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission
- (3) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (4) EUT Orthogonal Axis:
 - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand
- (5) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna
- (6) No limit: This is fundamental signal, the judgment is not applicable. For fundamental signal judgment was referred to Peak output test.

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5. BANDWIDTH TEST

5.1 Applied procedures / limit

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

5.1.1 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 = 2.5 ms.

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 4.1.5 Unless otherwise a special operating condition is specified in the follows during the testing.

5.1.5 EUT TEST CONDITIONS

Temperature: 25°C Relative Humidity: 55% Test Voltage: DC 7.4V

5.1.6 TEST RESULTS

Please refer to the Attachment E.

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6. MAXIMUM OUTPUT POWER TEST

6.1 Applied procedures / limit

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

6.1.1 TEST PROCEDURE

- a. The EUT was directly connected to the power meter and antenna output port as show in the block diagram below,
- b. The maximum peak conducted output power was performed in accordance with method 9.1.2 of FCC KDB 558074 D01 DTS Meas Guidance v03r02.

6.1.2 DEVIATION FROM STANDARD

No deviation.

6.1.3 TEST SETUP

EUT	Power Meter
	1 OWEL MELET

6.1.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 4.1.5 Unless otherwise a special operating condition is specified in the follows during the testing.

Transmit output power was measured while the host equipment supply voltage was varied from 85 % to 115 % of the nominal rated supply voltage. No change in transmit output power was observed.

6.1.5 EUT TEST CONDITIONS

Temperature: 25°C Relative Humidity: 55% Test Voltage: DC 7.4V

6.1.6 TEST RESULTS

Please refer to the Attachment F.

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7. ANTENNA CONDUCTED SPURIOUS EMISSION

7.1 Applied procedures / limit

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 measurement, provided the transmitter demonstrates compliance with the peak conducted power limits.

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= 100KHz, VBW=300KHz, Sweep time = 10 ms.

7.1.2 DEVIATION FROM STANDARD

No deviation.

7.1.3 TEST SETUP

EUT	SPECTRUM
	ANALYZER

7.1.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 4.1.5 Unless otherwise a special operating condition is specified in the follows during the testing.

7.1.5 EUT OPERATION CONDITIONS

Temperature: 25°C Relative Humidity: 55% Test Voltage: DC 7.4V

7.1.6 TEST RESULTS

Please refer to the Attachment G.

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8. POWER SPECTRAL DENSITY TEST

8.1 Applied procedures / limit

	FCC Part	15 (15.247) , Subpar	t C	
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(e)	Power Spectral Density	8 dBm (in any 3KHz)	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=3KHz, VBW=10 KHz, Sweep time = auto.

8.1.2 DEVIATION FROM STANDARD

No deviation.

8.1.3 TEST SETUP

EUT	SPECTRUM
	ANALYZER

8.1.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 4.1.5 Unless otherwise a special operating condition is specified in the follows during the testing.

8.1.5 EUT TEST CONDITIONS

Temperature: 25°C Relative Humidity: 55% Test Voltage: DC 7.4V

8.1.6 TEST RESULTS

Please refer to the Attachment H.

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9. MEASUREMENT INSTRUMENTS LIST

	(Conducted Emi	ssion Meası	urement	
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	LISN	EMCO	3816/2	00052765	Mar. 29, 2015
2	LISN	R&S	ENV216	101447	Mar. 29, 2015
3	Test Cable	N/A	C_17	N/A	Mar. 14, 2015
4	EMI TEST RECEIVER	R&S	ESCS30	833364/017	Mar. 29, 2015
5	50Ω Terminator	SHX	TF2-3G-A	08122902	Mar. 29, 2015
6	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-0 1	N/A	N/A

		Radiated Emis	sion Measu	rement	
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Antenna	Schwarbeck	VULB9160	9160-3232	Mar. 29, 2015
2	Amplifier	HP	8447D	2944A09673	Mar. 29, 2015
3	Receiver	AGILENT	N9038A	MY52130039	Sep. 30, 2015
4	Test Cable	N/A	C-01_CB03	N/A	Jul. 01, 2015
5	Controller	СТ	SC100	N/A	N/A
6	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-0 1	N/A	N/A
7	Antenna	ETS	3115	00075789	Mar. 29, 2015
8	Amplifier	Agilent	8449B	3008A02274	Mar. 29, 2015
9	Receiver	AGILENT	N9038A	MY52130039	Sep. 30, 2015
10	Test Cable	HUBER+SUHNER	C-48	N/A	Apr. 30, 2015
11	Controller	СТ	SC100	N/A	N/A
12	Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	9170319	Feb. 22, 2015
13	Microwave Preamplifier With Adaptor	EMC INSTRUMENT	EMC2654045	980039 & HA01	Feb. 22, 2015
14	Active Loop Antenna	R&S	HFH2-Z2	830749/020	Mar. 29, 2015

		6dB Bandwidt	th Measureme	ent	
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP 40	100185	Nov. 02, 2015

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		Peak Output Po	wer Measurei	ment	
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	P-series Power meter	Agilent	N1911A	MY45100473	Mar. 29, 2015
2	Wireband Power sensor	Agilent	N1921A	MY51100041	Mar. 29, 2015

	Anter	nna Conducted Spuri	ous Emissior	n Measurement	
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP 40	100185	Nov. 02, 2015

		Power Spectral De	ensity Measur	rement	
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP 40	100185	Nov. 02, 2015

Remark: "N/A" denotes no model name, serial no. or calibration specified.

All calibration period of equipment list is one year.

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10. EUT TEST PHOTO





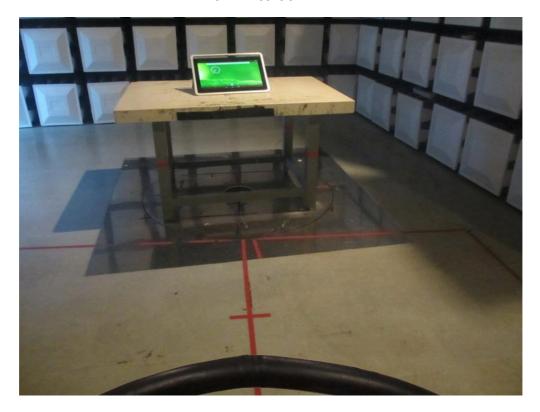


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Radiated Measurement Photos

9KHz to 30MHz



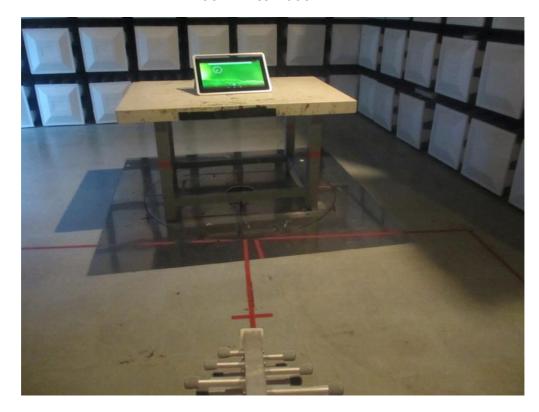


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Radiated Measurement Photos

30MHz to 1000MHz





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Radiated Measurement Photos

Above 1000MHz





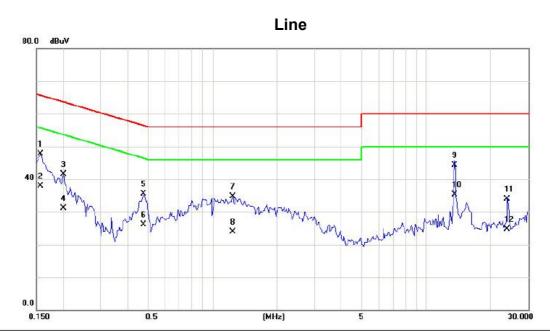
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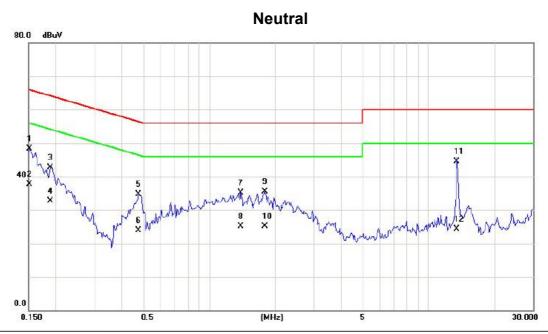


No. Mk	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	0.1577	38.10	9.52	47.62	65.58	-17.96	QP	
2	0.1577	28.34	9.52	37.86	55.58	-17.72	AVG	
3	0.2006	32.01	9.54	41.55	63.59	-22.04	QP	
4	0.2006	21.64	9.54	31.18	53.59	-22.41	AVG	
5	0.4781	25.83	9.69	35.52	56.37	-20.85	QP	
6	0.4781	16.37	9.69	26.06	46.37	-20.31	AVG	
7	1.2437	24.99	9.71	34.70	56.00	-21.30	QP	
8	1.2437	14.29	9.71	24.00	46.00	-22.00	AVG	
9	13.6013	34.08	10.19	44.27	60.00	-15.73	QP	
10 *	13.6013	25.16	10.19	35.35	50.00	-14.65	AVG	
11	24.0000	23.42	10.55	33.97	60.00	-26.03	QP	
12	24.0000	14.07	10.55	24.62	50.00	-25.38	AVG	

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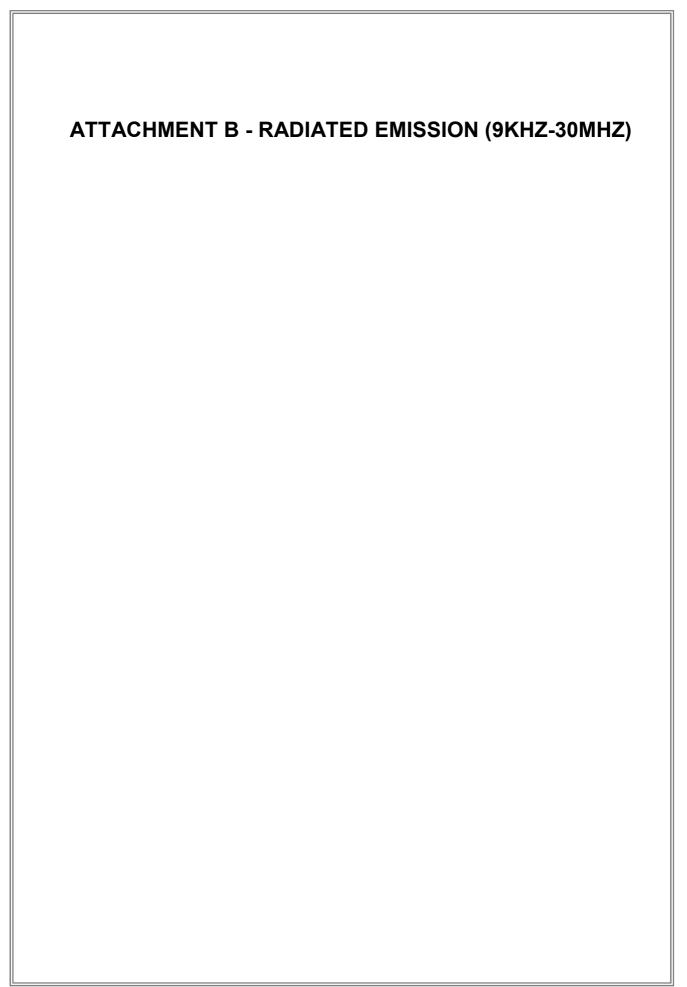




No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	0.1514	38.71	9.63	48.34	65.92	-17.58	QP	
2	0.1514	28.11	9.63	37.74	55.92	-18.18	AVG	
3	0.1890	33.01	9.61	42.62	64.08	-21.46	QP	
4	0.1890	23.16	9.61	32.77	54.08	-21.31	AVG	
5	0.4781	25.09	9.64	34.73	56.37	-21.64	QP	
6	0.4781	14.33	9.64	23.97	46.37	-22.40	AVG	
7	1.3960	25.40	9.70	35.10	56.00	-20.90	QP	
8	1.3960	15.37	9.70	25.07	46.00	-20.93	AVG	
9	1.7943	25.69	9.73	35.42	56.00	-20.58	QP	
10	1.7943	15.31	9.73	25.04	46.00	-20.96	AVG	
11 *	13.5152	34.25	10.23	44.48	60.00	-15.52	QP	
12	13.5152	14.16	10.23	24.39	50.00	-25.61	AVG	

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Test Mode: TX Mode

Frequenc y (MHz)	Ant 0°/90°	Read level dBuV/m	Factor (dB)	Measured (FS) (dBuV/m)	Limit(QP) (dBuV/m)	Margin (dB)	Note
0.0090	0°	13.53	25.00	38.53	108.52	-69.99	AVG
0.0090	0°	14.48	25.00	39.48	128.52	-89.04	PEAK
0.0124	0°	6.62	24.78	31.40	105.74	-74.33	AVG
0.0124	0°	7.41	24.78	32.19	125.74	-93.54	PEAK
0.0253	0°	3.58	23.96	27.54	99.54	-72.00	AVG
0.0253	0°	5.27	23.96	29.23	119.54	-90.31	PEAK
0.0317	0°	0.98	23.56	24.54	97.58	-73.04	AVG
0.0317	0°	2.96	23.56	26.52	117.58	-91.06	PEAK
0.5870	0°	30.74	20.08	50.82	72.23	-21.41	QP
1.7551	0°	21.59	19.52	41.11	69.54	-28.43	QP

Frequenc y (MHz)	Ant 0°/90°	Read level dBuV/m	Factor (dB)	Measured (FS) (dBuV/m)	Limit(QP) (dBuV/m)	Margin (dB)	Note
0.0092	90°	13.44	24.30	37.74	128.34	-90.60	AVG
0.0092	90°	14.32	24.30	38.62	148.34	-109.72	PEAK
0.0248	90°	6.42	24.00	30.42	119.72	-89.30	AVG
0.0248	90°	8.64	24.00	32.64	139.72	-107.08	PEAK
0.0313	90°	3.55	23.58	27.13	117.69	-90.56	AVG
0.0313	90°	5.23	23.58	28.81	137.69	-108.88	PEAK
0.0441	90°	0.57	22.77	23.34	114.72	-91.37	AVG
0.0441	90°	2.86	22.77	25.63	134.72	-109.08	PEAK
0.4927	90°	30.72	19.82	50.54	73.75	-23.22	QP
1.7176	90°	21.56	19.53	41.09	69.54	-28.45	QP

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ATTACHMENT C - RADIATED EMISSION BETWEE 1000MHZ)	N 30MHZ AND

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Test Mode: TX 2402MHz -CH00 -1Mbps

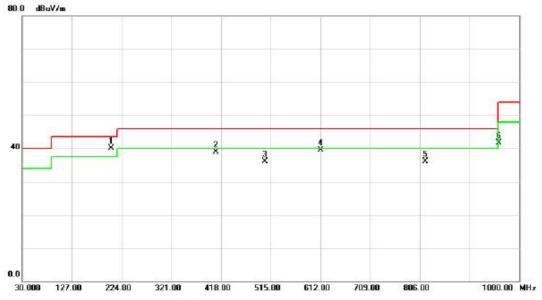
No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1	ļ	203.6300	59.15	-20.04	39.11	43.50	-4.39	peak		
2		305.4800	56.05	-16.22	39.83	46.00	-6.17	peak		
3		458.7400	49.64	-12.66	36.98	46.00	-9.02	peak		
4	*	612.0000	51.82	-8.63	43.19	46.00	-2.81	peak		
5		713.8500	43.51	-6.36	37.15	46.00	-8.85	peak		
6		960.2300	44.51	-3.40	41.11	54.00	-12.89	peak		

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Test Mode: TX 2402MHz -CH00 -1Mbps

Horizontal



Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
*	203.6300	60.22	-20.04	40.18	43.50	-3.32	peak	
	408.3000	52.34	-13.43	38.91	46.00	-7.09	peak	
	504.3300	47.39	-11.29	36.10	46.00	-9.90	peak	
	612.0000	48.11	-8.63	39.48	46.00	-6.52	peak	
	816.6700	41.91	-5.85	36.06	46.00	-9.94	peak	
	960.2300	45.10	-3.40	41.70	54.00	-12.30	peak	
	- ACIE	MHz * 203.6300 408.3000 504.3300 612.0000 816.6700	MHz dBuV * 203.6300 60.22 408.3000 52.34 504.3300 47.39 612.0000 48.11 816.6700 41.91	MHz dBuV dB * 203.6300 60.22 -20.04 408.3000 52.34 -13.43 504.3300 47.39 -11.29 612.0000 48.11 -8.63 816.6700 41.91 -5.85	MHz dBuV dB dBuV/m * 203.6300 60.22 -20.04 40.18 408.3000 52.34 -13.43 38.91 504.3300 47.39 -11.29 36.10 612.0000 48.11 -8.63 39.48 816.6700 41.91 -5.85 36.06	MHz dBuV dB dBuV/m dBuV/m * 203.6300 60.22 -20.04 40.18 43.50 408.3000 52.34 -13.43 38.91 46.00 504.3300 47.39 -11.29 36.10 46.00 612.0000 48.11 -8.63 39.48 46.00 816.6700 41.91 -5.85 36.06 46.00	MHz dBuV dB dBuV/m dBuV/m dB * 203.6300 60.22 -20.04 40.18 43.50 -3.32 408.3000 52.34 -13.43 38.91 46.00 -7.09 504.3300 47.39 -11.29 36.10 46.00 -9.90 612.0000 48.11 -8.63 39.48 46.00 -6.52 816.6700 41.91 -5.85 36.06 46.00 -9.94	MHz dBuV dB dBuV/m dBuV/m dB Detector * 203.6300 60.22 -20.04 40.18 43.50 -3.32 peak 408.3000 52.34 -13.43 38.91 46.00 -7.09 peak 504.3300 47.39 -11.29 36.10 46.00 -9.90 peak 612.0000 48.11 -8.63 39.48 46.00 -6.52 peak 816.6700 41.91 -5.85 36.06 46.00 -9.94 peak

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Test Mode: TX 2440MHz -CH19 -1Mbps

No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	ļ	203.6300	58.94	-20.04	38.90	43.50	-4.60	peak	
2		305.4800	55.84	-16.22	39.62	46.00	-6.38	peak	
3		408.3000	49.17	-13.43	35.74	46.00	-10.26	peak	
4		458.7400	48.93	-12.66	36.27	46.00	-9.73	peak	
5	*	612.0000	51.11	-8.63	42.48	46.00	-3.52	peak	
6		960.2300	43.30	-3.40	39.90	54.00	-14.10	peak	

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Test Mode: TX 2440MHz -CH19 -1Mbps

Horizontal



No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	203.6300	59.59	-20.04	39.55	43.50	-3.95	peak	
2		408.3000	51.71	-13.43	38.28	46.00	-7.72	peak	
3		504.3300	47.26	-11.29	35.97	46.00	-10.03	peak	
4		612.0000	47.48	-8.63	38.85	46.00	-7.15	peak	
5		816.6700	45.28	-5.85	39.43	46.00	-6.57	peak	
6		960.2300	44.47	-3.40	41.07	54.00	-12.93	peak	

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Test Mode: TX 2480MHz -CH39 -1Mbps

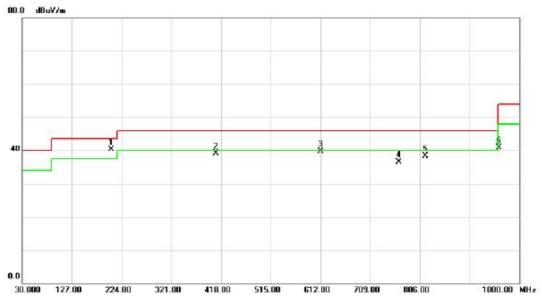
No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1	ļ	203.6300	59.52	-20.04	39.48	43.50	-4.02	peak		
2		255.0400	53.78	-17.25	36.53	46.00	-9.47	peak		
3	ļ	305.4800	56.42	-16.22	40.20	46.00	-5.80	peak		
4		458.7400	51.51	-12.66	38.85	46.00	-7.15	peak		
5	*	612.0000	51.19	-8.63	42.56	46.00	-3.44	peak		
6		960.2300	45.38	-3.40	41.98	54.00	-12.02	peak		

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Test Mode: TX 2480MHz -CH39 -1Mbps

Horizontal



No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	203.6300	60.38	-20.04	40.34	43.50	-3.16	peak	
2		408.3000	52.50	-13.43	39.07	46.00	-6.93	peak	
3		612.0000	48.27	-8.63	39.64	46.00	-6.36	peak	
4		765.2600	43.03	-6.44	36.59	46.00	-9.41	peak	
5		816.6700	44.07	-5.85	38.22	46.00	-7.78	peak	
6		960.2300	44.26	-3.40	40.86	54.00	-13.14	peak	

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ATTACHMENT D - RADIATED EMISSION (ABOVE 1000MHZ)

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No.	Mk	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1		2390.000	21.63	33.38	55.01	74.00	-18.99	peak		
2		2390.000	12.59	33.38	45.97	54.00	-8.03	AVG		
3	X	2401.680	71.37	33.41	104.78	74.00	30.78	peak	no limit	
4	*	2402.000	66.55	33.41	99.96	54.00	45.96	AVG	no limit	

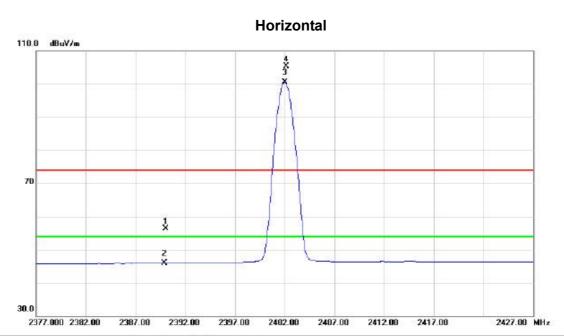
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No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment		Over			
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1		4804.050	36.87	6.38	43.25	74.00	-30.75	peak		
2	*	4804.050	28.29	6.38	34.67	54.00	-19.33	AVG		

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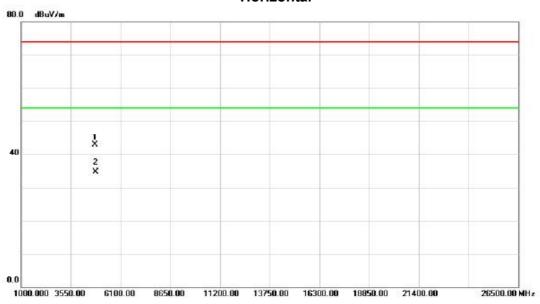


No.	Mk		Reading Level	Correct Factor	Measure- ment	Limit	Over			
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1		2390.000	22.89	33.38	56.27	74.00	-17.73	peak		
2		2390.000	12.57	33.38	45.95	54.00	-8.05	AVG		
3	*	2402.000	67.09	33.41	100.50	54.00	46.50	AVG	no limit	
4	X	2402.160	71.97	33.41	105.38	74.00	31.38	peak	no limit	

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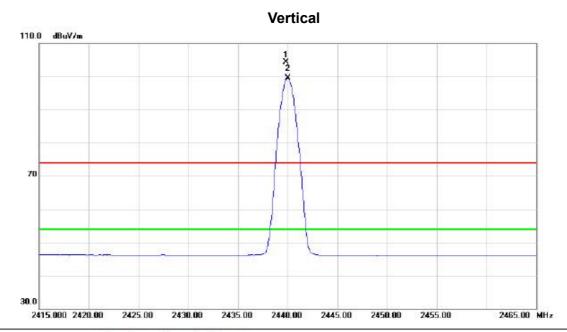
Horizontal



No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1		4804.020	36.57	6.38	42.95	74.00	-31.05	peak		
2	*	4804.020	28.25	6.38	34.63	54.00	-19.37	AVG		

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No.	M	c. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
-		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1	Х	2439.820	70.87	33.51	104.38	74.00	30.38	peak	no limit	
2	*	2440.000	66.01	33.51	99.52	54.00	45.52	AVG	no limit	

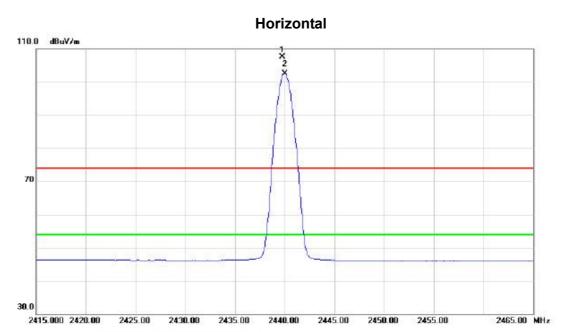
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No.	Mi	k. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1		4880.040	37.38	6.61	43.99	74.00	-30.01	peak		
2	*	4880.040	27.17	6.61	33.78	54.00	-20.22	AVG		

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No.	Mk	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1.	X	2439.770	73.93	33.51	107.44	74.00	33.44	peak	no limit	
2	*	2440.000	69.07	33.51	102.58	54.00	48.58	AVG	no limit	

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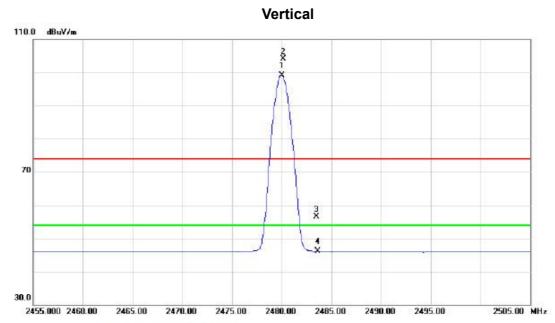
Horizontal



No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment		Over			
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1		4880.040	35.26	6.61	41.87	74.00	-32.13	peak		
2	*	4880.040	27.16	6.61	33.77	54.00	-20.23	AVG		

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No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1	*	2480.000	65.55	33.61	99.16	54.00	45.16	AVG	no limit	
2	Х	2480.150	70.41	33.61	104.02	74.00	30.02	peak	no limit	
3		2483.500	22.95	33.62	56.57	74.00	-17.43	peak		
4		2483.500	12.49	33.62	46.11	54.00	-7.89	AVG		

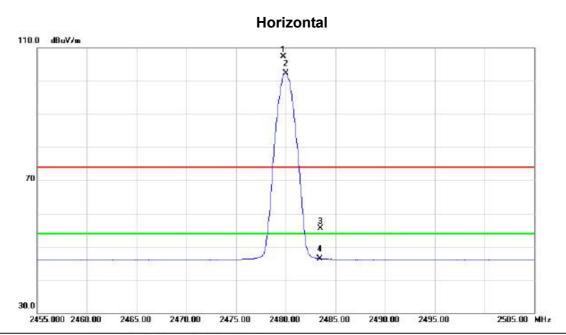
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No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment		Over			
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1		4960.080	35.26	6.83	42.09	74.00	-31.91	peak		
2	*	4960.080	26.12	6.83	32.95	54.00	-21.05	AVG		

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No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1	X	2479.750	73.61	33.61	107.22	74.00	33.22	peak	no limit	
2	*	2480.000	68.76	33.61	102.37	54.00	48.37	AVG	no limit	
3		2483.500	21.83	33.62	55.45	74.00	-18.55	peak		
4		2483.500	12.78	33.62	46.40	54.00	-7.60	AVG		

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Horizontal



No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1		4960.080	35.68	6.83	42.51	74.00	-31.49	peak		
2	*	4960.080	26.81	6.83	33.64	54.00	-20.36	AVG		

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ATTACHMENT E - BANDWIDTH

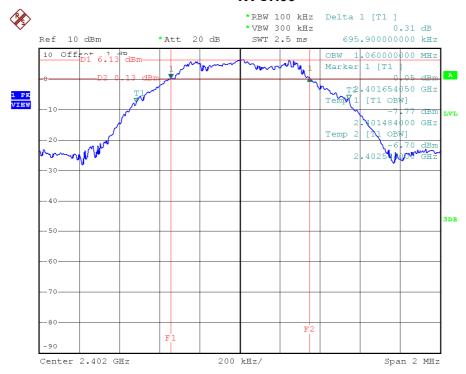
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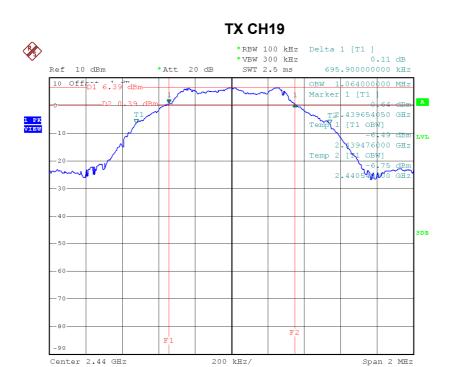
Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2402	0.696	1.060	500	Complies
2440	0.696	1.064	500	Complies
2480	0.684	1.068	500	Complies

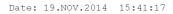
TX CH00

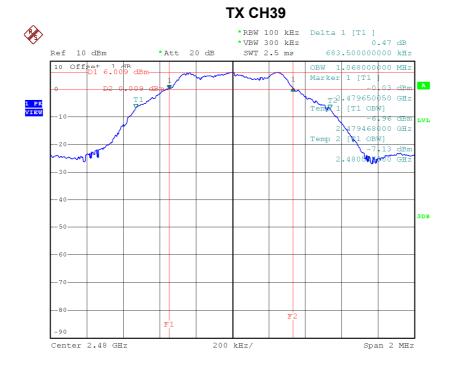


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ATT	ACHMENT F - MAXIM	UM OUTPUT POWER T	EST

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Frequency (MHz)	Conducted Power (dBm)	Conducted Power (Watt)	Max. Limit (dBm)	Max. Limit (Watt)	Test Result
2402	7.00	0.0050	30.00	1.00	Complies
2440	7.46	0.0056	30.00	1.00	Complies
2480	6.95	0.0050	30.00	1.00	Complies

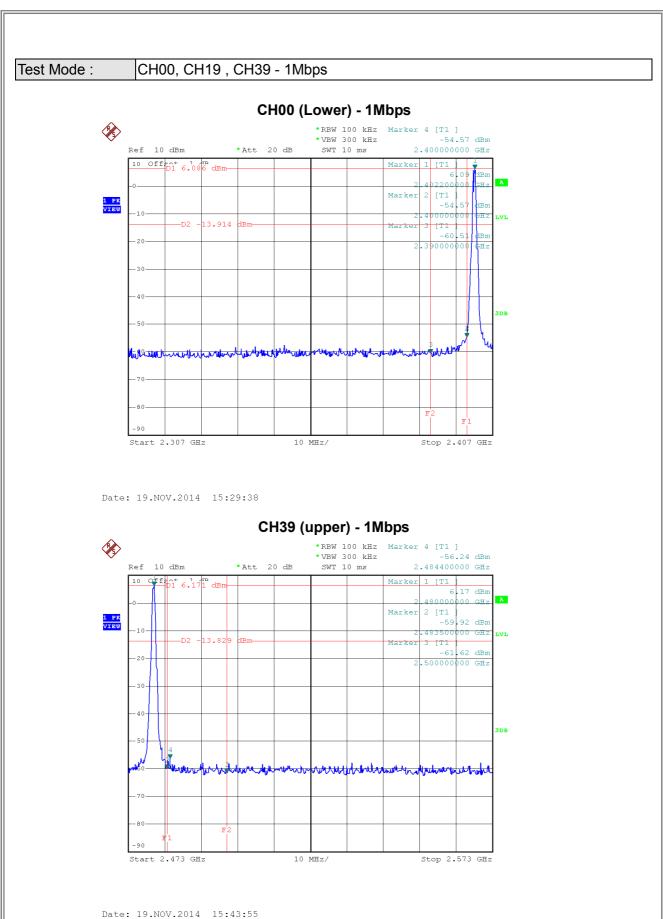
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ATTACHMENT G - ANTENNA CONDUCTED SPURIOUS EMISSION

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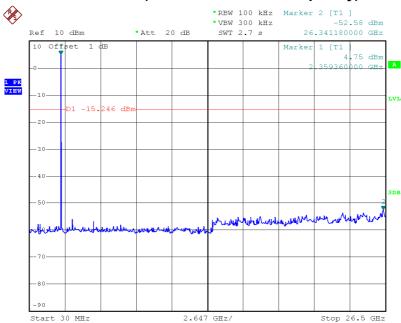




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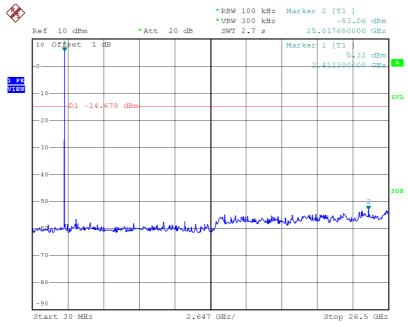






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CH19 (10 Harmonic of the frequency)

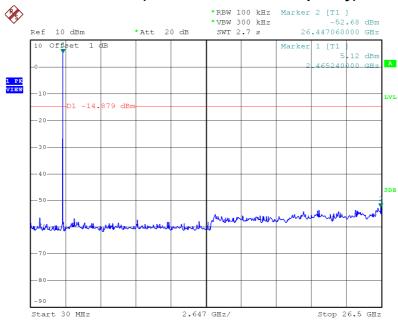


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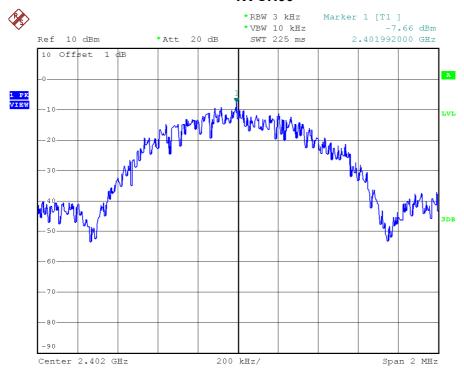
ATTACHMENT H - POWER SPECTRAL DENSITY TEST

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Frequency (MHz)	Power Density (dBm)	Max. Limit (dBm)	Result
2402	-7.66	8	Complies
2440	-7.37	8	Complies
2480	-7.99	8	Complies

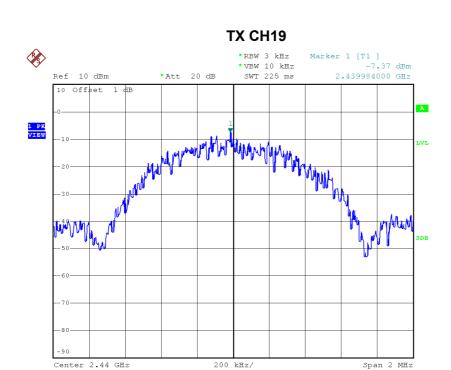
TX CH00



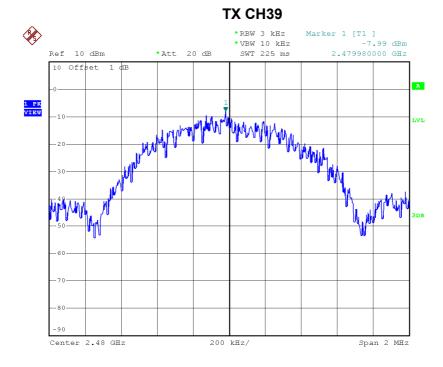
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