

Japan Radio Law TEST REPORT

ZUIKI Inc.

Cuieboard3

Cubietruck

Prepared for : ZUIKI Inc.
Shin-Yokohama, Kohoku-ku, Yokohama-City, Kanagawa
222-0033, Japan

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Date of Test : Apr.05~09, 2015
Date of Report : Apr.10, 2015

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TEST REPORT VERIFICATION

Applicant : ZUIKI Inc.
Manufacturer : CUBIEIECH LIMITED SHENZHEN
EUT Description : Cuieboard3
Model No. : Cubietruck
Test Voltage : DC 5V

Measurement Standards Used:

ARIB STD-T66 Version 2.1/2003-03
Technical Regulations Conformity Certification;
Radio Equipment Characteristics Testing Method

Second-Generation Low-Power Data Communication System/Wireless LAN System

The device described above is tested by AUDIX Technology Corporation. The measurement results were contained in this test report and AUDIX Technology Corporation was assumed full responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT to be technically compliance with. Article 49-20 and the relevant Articles in Ordinance Regulating Radio Equipment, which is equal to the ARIB STD-T66 requirements, and the device has been measured in accordance with the test method given in MIC notice No.88 Appendix No.43, or surpasses or is equal to the test method.

This report applies to above tested sample only and shall not be reproduced in part without written approval of AUDIX Technology Corporation.

Date of Test : Apr.05~09, 2015 Report of date: Apr.10, 2015

Prepared by : Cindy Zhu / Assistant Reviewed by : Sunny Lu / Assistant Manager

Approved & Authorized Signer : David Jin / Manager

1. SUMMARY OF MEASUREMENTS AND RESULTS

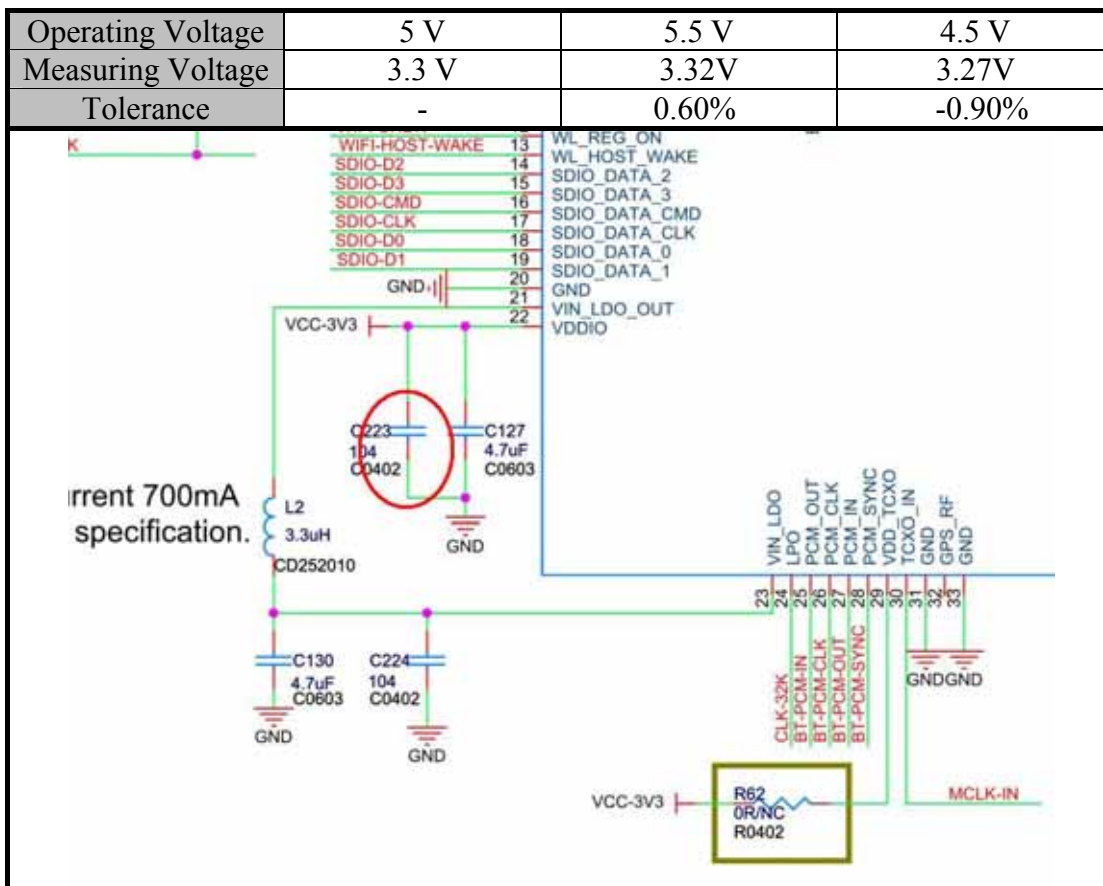
1.1. Compliance with ARIB STD-T66 Version 2.1/2003-03

CLAUSE (ARIB STD-T66)	TEST PARAMETER	RESULTS
Transmitter Parameters		
3.2 (2)	Antenna Power	PASS
3.2 (3)	Tolerances for Antenna Power	PASS
3.2 (4)	Frequency Tolerance	PASS
3.2 (5)	Transmission Rate	N/A
3.2 (6)	Spurious Emissions	PASS
3.2 (7)	Spread-spectrum Bandwidth / Spread Factor	PASS
3.2 (8)	Spread Bandwidth	PASS
3.2 (9)	Number of Carriers	N/A
3.2 (10)	Dwell Time	N/A
Receiver Parameters		
3.3 (1)	Secondary Radiated Emissions	PASS
Other Parameters		
3.4.1	Interference Prevention Function	PASS
3.4.2	Construction Protection	PASS
N/A is an abbreviation for Not Applicable.		

2. GENERAL INFORMATION

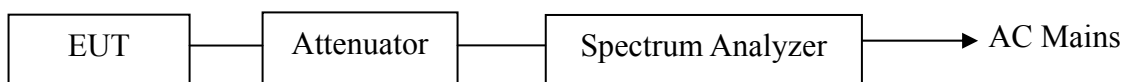
2.1. Description of Device (EUT)

Product Name	: Cuieboard3
Model Number	: Cubietruck
Radio	: Bluetooth V4.0; IEEE802.11 b/g/n
Operation Frequency	: IEEE 802.11b: 2412MHz—2484MHz IEEE 802.11g: 2412MHz—2472MHz IEEE802.11nHT20: 2412MHz—2472MHz Bluetooth: 2402-2480MHz
Modulation Technology	: IEEE 802.11b: DSSS(CCK,DQPSK,DBPSK) IEEE 802.11g: OFDM(64QAM, 16QAM, QPSK, BPSK) IEEE 802.11n HT20: OFDM (64QAM, 16QAM, QPSK,BPSK) Bluetooth V4.0: GFSK
Antenna Assembly Gain	: Integrated PCB antenna,Gain :4.1dBi
Applicant	: ZUIKI Inc. Shin-Yokohama, Kohoku-ku, Yokohama-City, Kanagawa 222-0033, Japan
Manufacturer	: CUBIEIECH LIMITED SHENZHEN 303, 1st Bldg, A Zone, Baoan Internet Industry Base, No.1009, Baoyuan Road, Baoan District, Shenzhen, China.
Date of Test	: Apr.05~09, 2015
Date of Receipt	: Apr.05, 2015
Sample Type	: Prototype production



NOTE: When EUT be operated at $\pm 10\%$ from the normal supply voltage, the supply voltage of RF part was varied within $\pm 1\%$. All test cases were done under the normal supply voltage.

2.2. Block Diagram of Test Setup



(EUT: Cuieboard3)

2.3. Test information

The Special test software was used to control EUT work in Continuous TX mode, and select test channel.

Tested mode, channel, and data rate information			
Mode	data rate (Mbps)	Channel	Frequency (MHz)
Tx Mode GFSK modulation	1	Low :CH 0	2402
	1	Middle: CH19	2440
	1	High: CH39	2480

2.4. Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Validity Date	Cal. Agency
1	Spectrum Analyzer	Agilent	N9030A	MY51380221	Oct.29,14	Oct.28,15	CEPREI
2	Attenuator (10dB)	Agilent	8491A	MY39264375	Apr.28,14	Apr.27,15	CEPREI
3	RF Cable	Hubersuhner	SUCOFLEX102	28610/2	Apr.28,14	Apr.27,15	CEPREI
4	Power meter	Anritsu	ML2487A	6K00002472	Aug.20,14	Aug.19,15	CEPREI
5	Signal Generator	HP	83732B	VS34490501	Apr.28,14	Apr.27,15	CEPREI

Note: Calibration by the calibration Agencies Listed in the table Correspond to paragraph 4(ii)(c) of Article 24-2 in the Radio Law.

2.5. Description of Test Facility

Site Description

Name of Firm : Audix Technology (Shenzhen) Co., Ltd.
No. 6, Ke Feng Rd., 52 Block, Shenzhen
Science & Industrial Park, Nantou, Shenzhen,
Guangdong, China

3m Anechoic Chamber : Certificated by FCC, USA
Registration Number: 90454
Valid Date: Dec.30, 2017

3m & 10m Anechoic Chamber : Certificated by FCC, USA
Registration Number: 794232
Valid Date: Oct.31, 2015

RF Anechoic Chamber : Dimensions are:
[L]10m × [W]5.5m × [H]5m

EMC Lab. : Certificated by DAkkS, Germany
Registration No: D-PL-12151-01-00
Valid Date: Dec.15, 2016

Accredited by NVLAP, USA
NVLAP Code: 200372-0
Valid Date: Mar.31, 2016

United States Department of Commerce
National Institute of Standards and Technology



Certificate of Accreditation to ISO/IEC 17025:2005

NVLAP LAB CODE: 200372-0

AUDIX Technology (Shenzhen) Co., Ltd.

Shenzhen, Guangdong 518057
CHINA

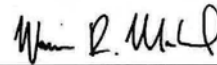
*is accredited by the National Voluntary Laboratory Accreditation Program for specific services,
listed on the Scope of Accreditation, for:*

ELECTROMAGNETIC COMPATIBILITY AND TELECOMMUNICATIONS

*This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005.
This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality
management system (refer to joint ISO-ILAC-IAF Communiqué dated January 2009).*

2015-04-01 through 2016-03-31

Effective dates

For the National Institute of Standards and Technology

NVLAP-01C (REV. 2009-01-28)

2.6.Measurement Uncertainty (95% confidence levels, k=2)

Test Item	Uncertainty
Uncertainty for Radiated Spurious Emission test in RF chamber	3.6dB
Uncertainty for Conduction Spurious emission test	2.0dB
Uncertainty for Output power test	0.8dB
Uncertainty for Power density test	2.0dB
Uncertainty for Frequency range test	7×10^{-8}
Uncertainty for Bandwidth test	83kHz
Uncertainty for DC power test	0.1 %
Uncertainty for test site temperature and humidity	0.6
	3%

3. MEASUREMENTS OF TRANSMITTER PARAMETERS

3.1. Antenna Power

3.1.1. Limit

Item	Limits
Antenna Power	10mW(other modulation)
Antenna Power Error	+20%,-80% (Base on manufacturer declare antenna power density)

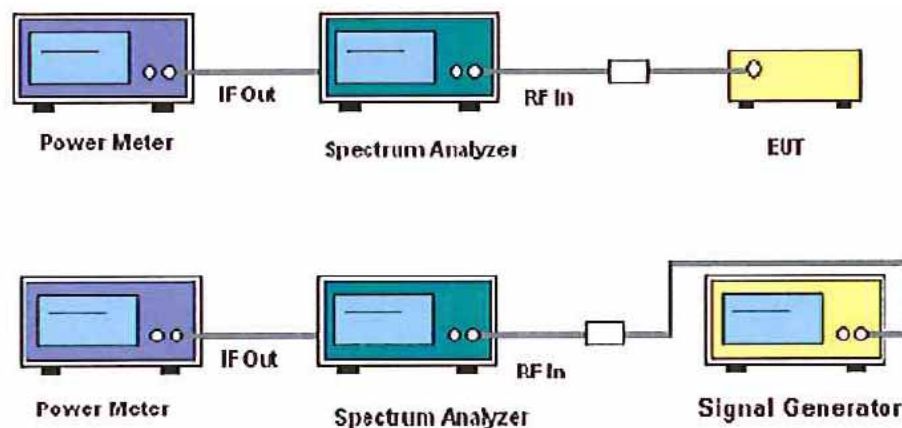
3.1.2. Measuring Instruments

See list of measuring instruments of the 2.3 section.

3.1.3. Test Procedures

1. A power meter is connected on the IF output port of the spectrum analyzer.
2. Adjust the spectrum analyzer to have the center frequency the same with the measured carrier.
RBW=VBW=1MHz. detector mode is positive peak. Turn off the averaging function and use zero span.
3. The calibrating signal power shall be reduced to 0 dBm and is shall be verified that the power meter reading also reduces by 10 dB.
4. Connect the equipment to be measured. Using the following settings of the spectrum analyzer in combination with “max hold” function, fine the frequency of highest power output in the power envelope: center frequency equal to operating frequency; RBW & VBW: 1 MHz: detector mode: positive peak: averaging : off: span: 3 times the spectrum width: amplitude: adjust for middle of the instrument’s range. The frequency found shall be recorded.
5. Set the center frequency of the spectrum analyzer to the found frequency and switch to zero span. The power meter indicates the measured power density “E”.
6. Remove the EUT and put the replacing standard signal generator (SSG). Set the standard signal generator (SSG) at same frequency and transmit on, then set SSG output power at P_t to give the equivalent output level of “E”.
7. Calculate antenna power density by the formula $PD = P_t + 10 \cdot \log(1/X)$.
x: The duty cycle of the EUT in continuously transmitting mode
 P_t : Output power of the SSG
8. Antenna power Error is definition that actual measure antenna power tolerance between +20% to -80% power range that base on manufacturer declare the conducted power density.

3.1.4. Test Setup



3.1.5. Test Results

EUT: Cuieboard3	
M/N: Cubietruck	Test Engineer: Donjon_Huang
Test Site: RF Site	Date:2015-04-07
Temperature:22.4±0.6	Humidity: 52.8±3.0 % Pressure: 101.4±1.0 kpa

Mode	Test Voltage	Channel (MHz)	Result (mW)	Limit (mW)
GFSK	DC 5V	2402	1.96 2.62%	10mW or less Tolerance -80% +20%
		2440	1.91 0%	
		2480	1.72 -9.95%	

Rated Power: 1.91mW

Conclusion: PASS

3.2.Frequency Tolerance

3.2.1. Limit

Item	Limits
Frequency Tolerance	50ppm

3.2.2. Measuring Instruments

See list of measuring instruments of the 2.3 section.

3.2.3. Test Procedure

1. Frequency accuracy of instrument shall be less than 10% of limits tolerance (5ppm).
2. Setting of SA is following as: RBW:10kHz / VBW:10kHz.
3. The frequency tolerance test case is directly measured using spectrum analyzer. Then the frequency error formula is $(f-f_c)/f_c \times 10^6$ ppm and the limit is less than ± 50 ppm.

3.2.4. Test Setup

See clause 2.2 for block diagram of test setup.

3.2.5. Test Results

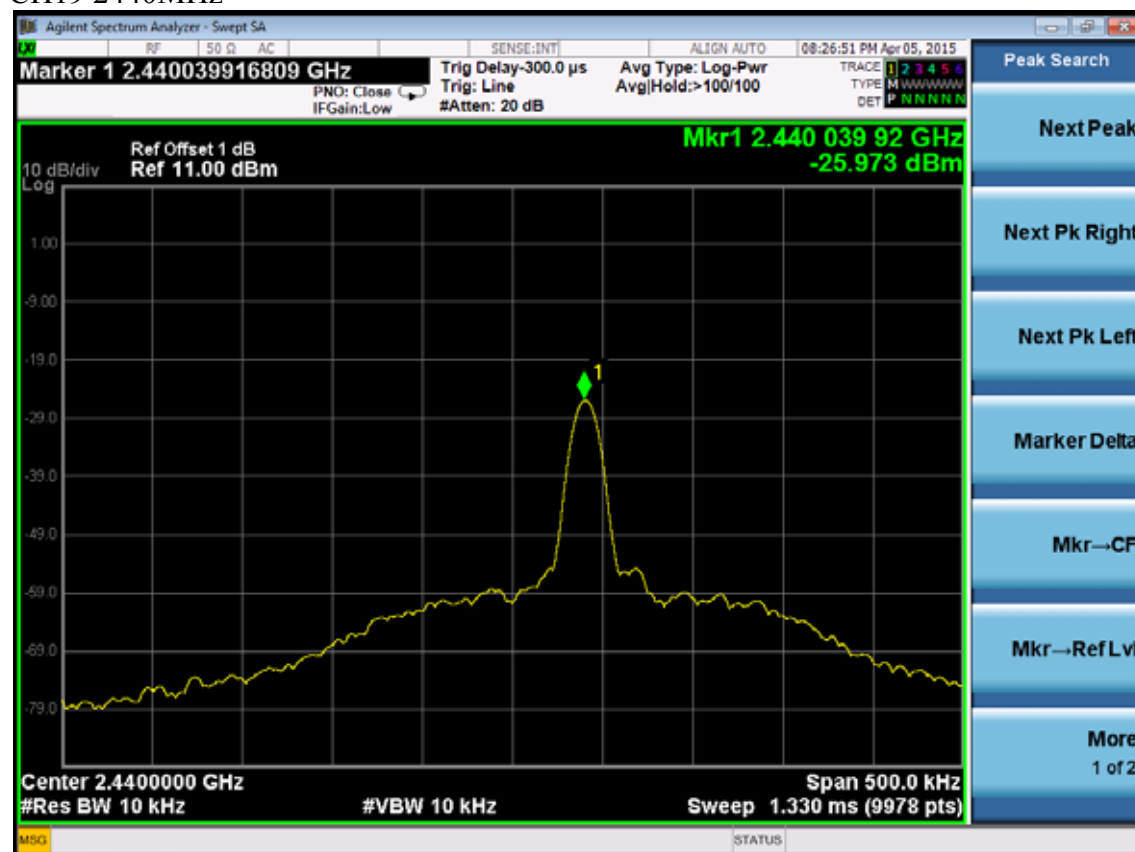
EUT: Cuieboard3	
M/N: Cubietruck	Test Engineer: Donjon_Huang
Test Site: RF Site	Test date: 2015-04-07
Temperature : 23.1±0.6 Humidity: 52.9±3.0 % Pressure: 101.1±1.0 kpa	

Test Voltage	Test Mode	CH	Reading (MHz)	Target Frequency (MHz)	Result (ppm)	Limit (ppm)
DC 5V	Tx	CH0	2402.03771	2402	15.70	±50
		CH39	2440.03992	2440	16.36	±50
		CH78	2480.04292	2480	17.31	±50
Conclusion: PASS						

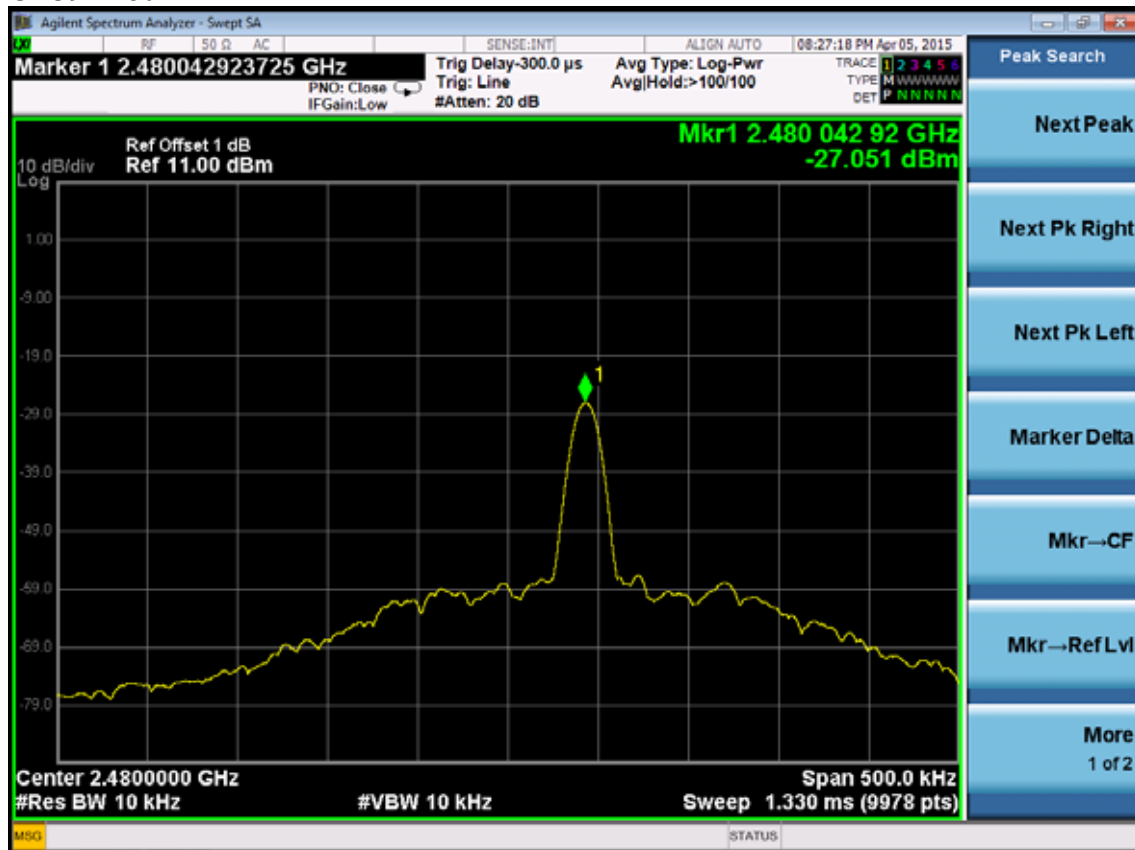
CH0 2402MHz



CH19 2440MHz



CH39 2480MHz



3.3. Occupied Bandwidth and Spread-spectrum Bandwidth / Spread Factor Measurement

3.3.1. Limit

Item	Limits
Occupied Bandwidth	FH: 83.5MHz or less OFDM (For BW=20MHz) 26MHz OFDM (For BW=40MHz) 38MHz
Spreading Bandwidth	DS, OFDM, FH, FH+DS, FH+OFDM: 500KHz or more
Spread Spectrum Factor	5

3.3.2. Measuring Instruments

See list of measuring instruments of the 2.3 section.

3.3.3. Test Procedure

- Setting of SA is following as: RBW: 100KHz / VBW: 300KHz
Sweep Mode: Continuous sweep
Detect mode: Positive peak
Trace mode: Max hold.
- EUT have transmitted each modulation signal and fixed channelize (For DSSS or OFDM Device).
SA set to 99% of occupied bandwidth to measure occupied bandwidth. The limit is less than 26MHz (For DSSS or OFDM Device).
- SA set to 90% of occupied bandwidth to measure Spread Spectrum Bandwidth and must greater than 500kHz.
- Spread Spectrum Factor = Spread Spectrum Bandwidth / modulation rate of EUT.

3.3.4. Test Setup

See clause 2.2 for block diagram of test setup.

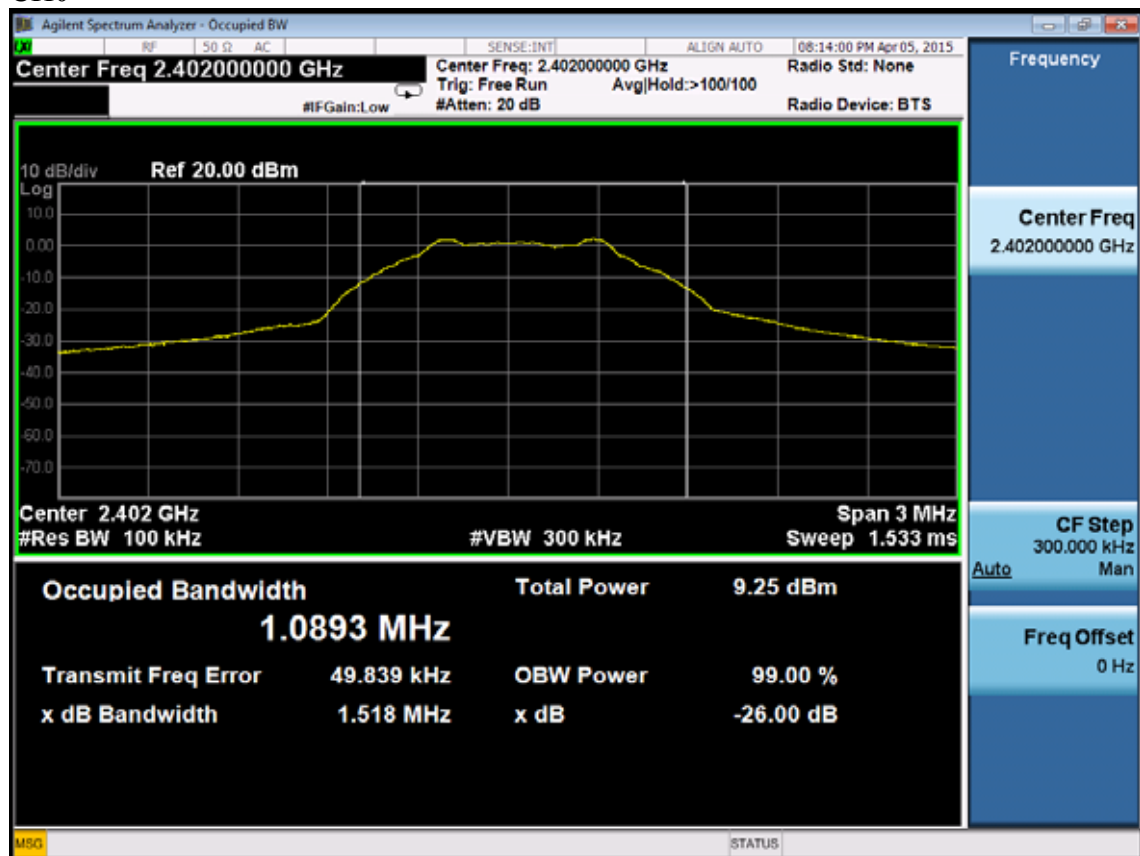
3.3.5. Test Results (99% BW)

EUT: Cuieboard3		
M/N: Cubietruck		
Test date: 2015-04-07	Pressure: 101.1±1.0kpa	Humidity: 53.1±3.0%
Tested by: Donjon-Huang	Test site: RF Site	Temperature: 22.8±0.6

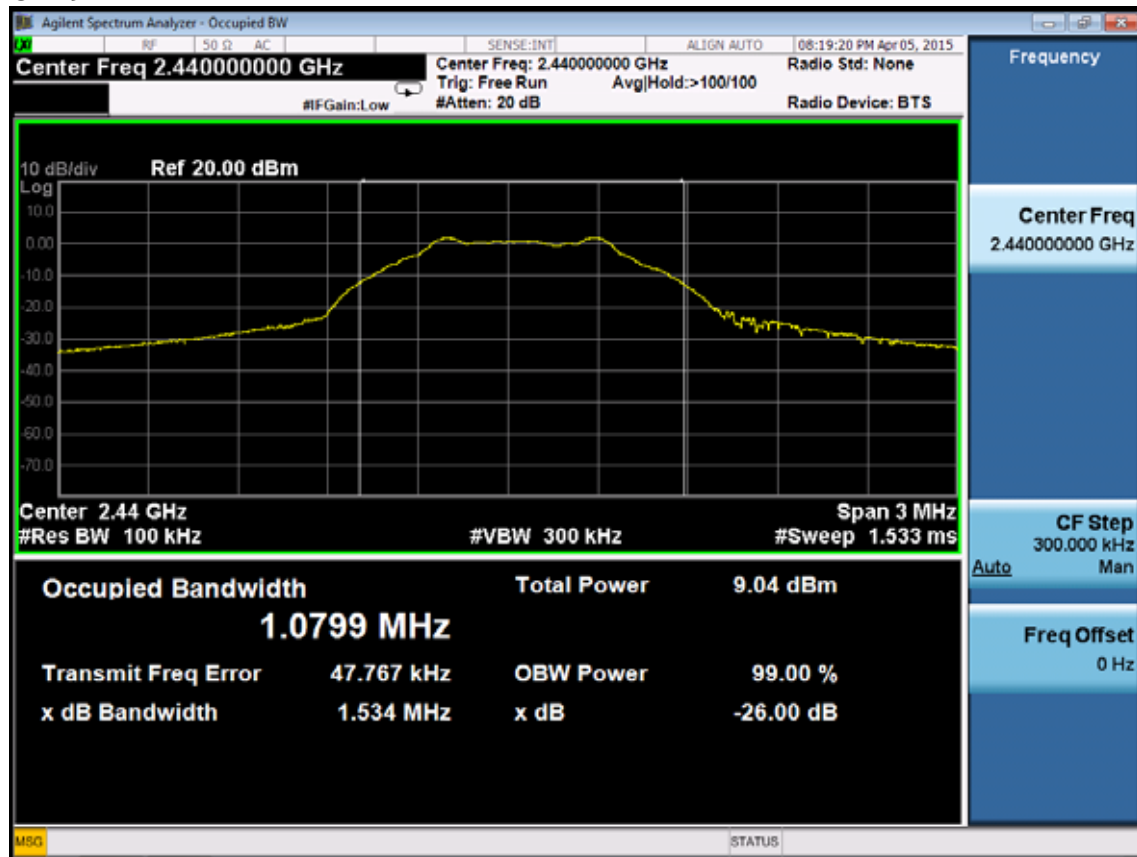
Test Mode	CH (MHz)	99% bandwidth (MHz)	Limit (MHz)
GFSK	CH0	1.0893	83.5
	CH19	1.0799	83.5
	CH39	1.0904	83.5

Conclusion : PASS

CH0



CH19



CH39



(90% BW)

EUT: Cuieboard3		
M/N: Cubietruck		
Test date: 2015-04-07	Pressure: 101.2±1.0kpa	Humidity: 51.9±3.0%
Tested by: Donjon_Huang	Test site: RF Site	Temperature: 22.3±0.6

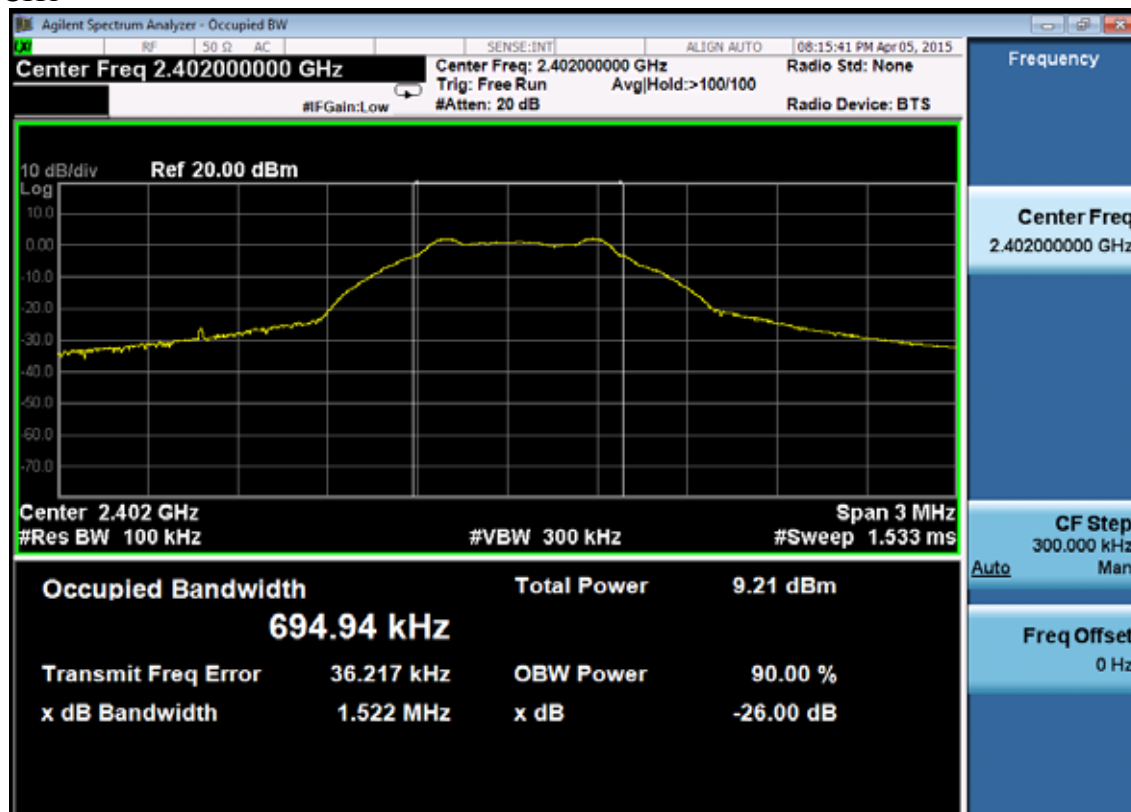
Test Mode	Frequency (MHz)	90% bandwidth (kHz)	Limit (KHz)
GFSK	CH0	694.94	500
	CH19	695.45	500
	CH39	697.10	500

Conclusion : PASS

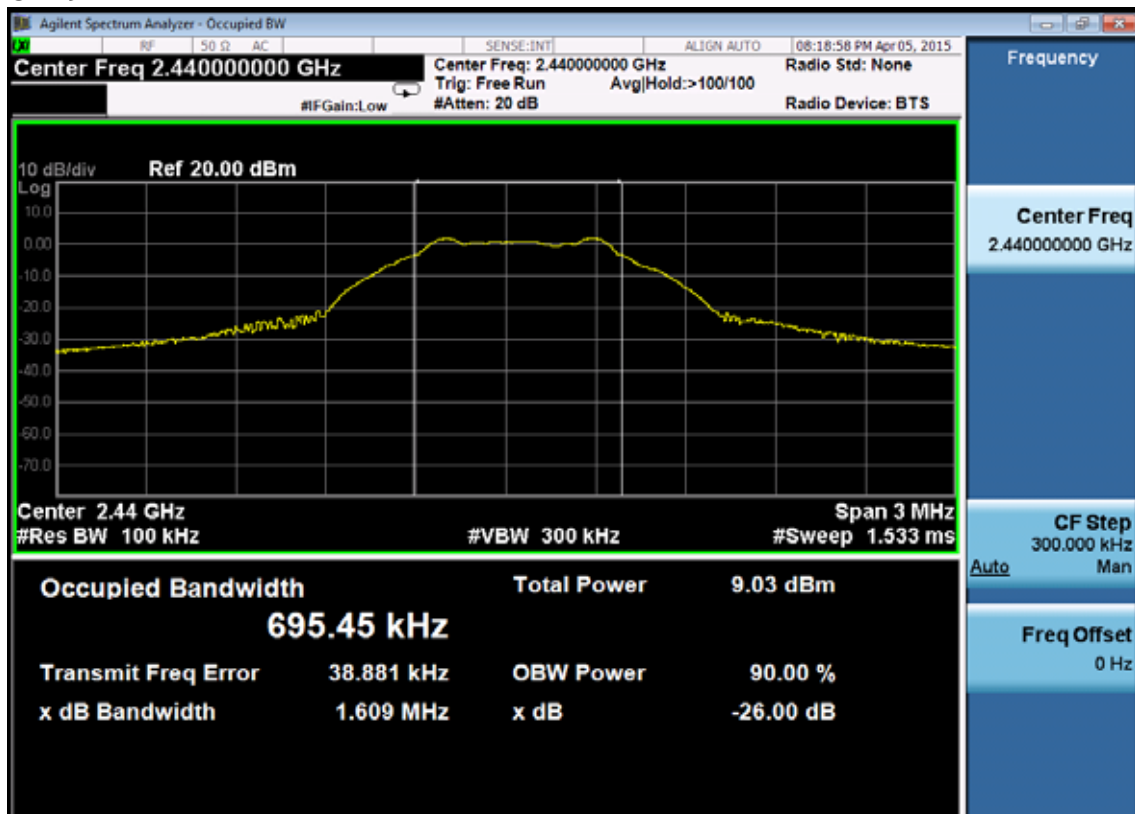
Spread Spectrum Factor

Test Mode	90% bandwidth (MHz)	Symbol Rate (MHz)	Spread Spectrum Factor	Limit
GFSK	694.94	1	694.94	5
	695.45	1	695.45	5
	697.10	1	697.10	5

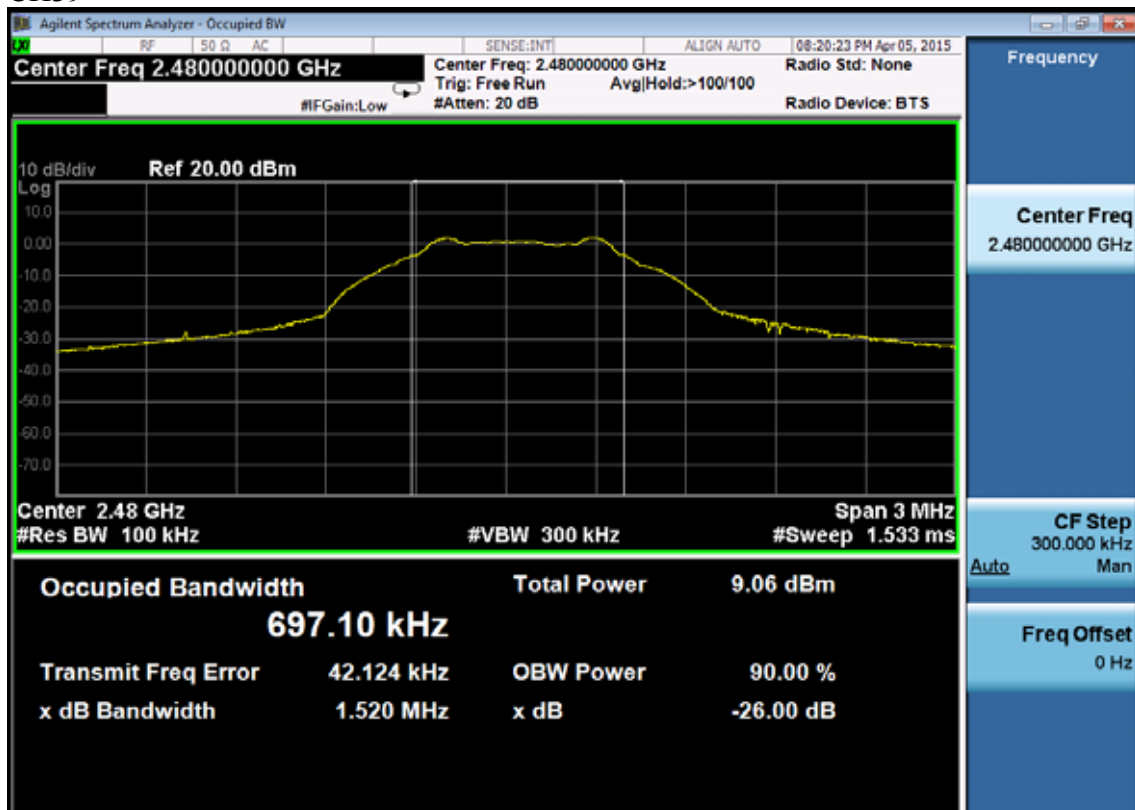
CH1



CH19



CH39



3.4. Transmitter Spurious Emissions (Conducted)

3.4.1. Limit

Item	Limits
Tx Spurious Emission	2.5 μ W (2387MHz > f ; 2496.5MHz < f)
	25 μ W (2387MHz \leq f < 2400MHz) and (2483.5MHz < f \leq 2496.5MHz)

3.4.2. Measuring Instruments

See list of measuring instruments of the 2.3 section.

3.4.3. Test Procedures

1. EUT has transmitted the maximum power and fixed channelize.
Setting of SA is following as: RBW: 1MHz / VBW:1MHz above 1GHz,
Sweep time : Auto / Sweep Mode: Continuous sweep / Detect mode: Positive peak / Trace mode: Max hold.
Setting of SA is following as: RBW: 100kHz / VBW:100kHz under 1GHz,
Sweep time : Auto / Sweep Mode: Continuous sweep / Detect mode: Positive peak / Trace mode: Max hold.
2. Setting of SA is following as: start frequency 30MHz and stop frequency 2387MHz Then to mark peak reading Value + cable loss shall be less than 2.5 μ W.
3. SA adjusted to start frequency 2387MHz and stop frequency 2400MHz. Then to mark peak reading Value + cable loss shall be less than 25 μ W.
4. SA adjusted to start frequency 2483.5MHz and stop frequency 2496.5MHz. Then to mark peak reading Value + cable loss shall be less than 25 μ W.
5. SA adjusted to start frequency 2496.5MHz and stop frequency 13000MHz. Then to mark peak reading Value + cable loss shall be less than 25 μ W.
6. If the Result Value is over the requirement, take total sum of 1MHz band centered at the spur frequency like ACLP measurement as result value.

3.4.4. Test Setup

See clause 2.2 for block diagram of test setup.

3.4.5. Test Results of Conducted Spurious Emissions – TX Operating

Note:

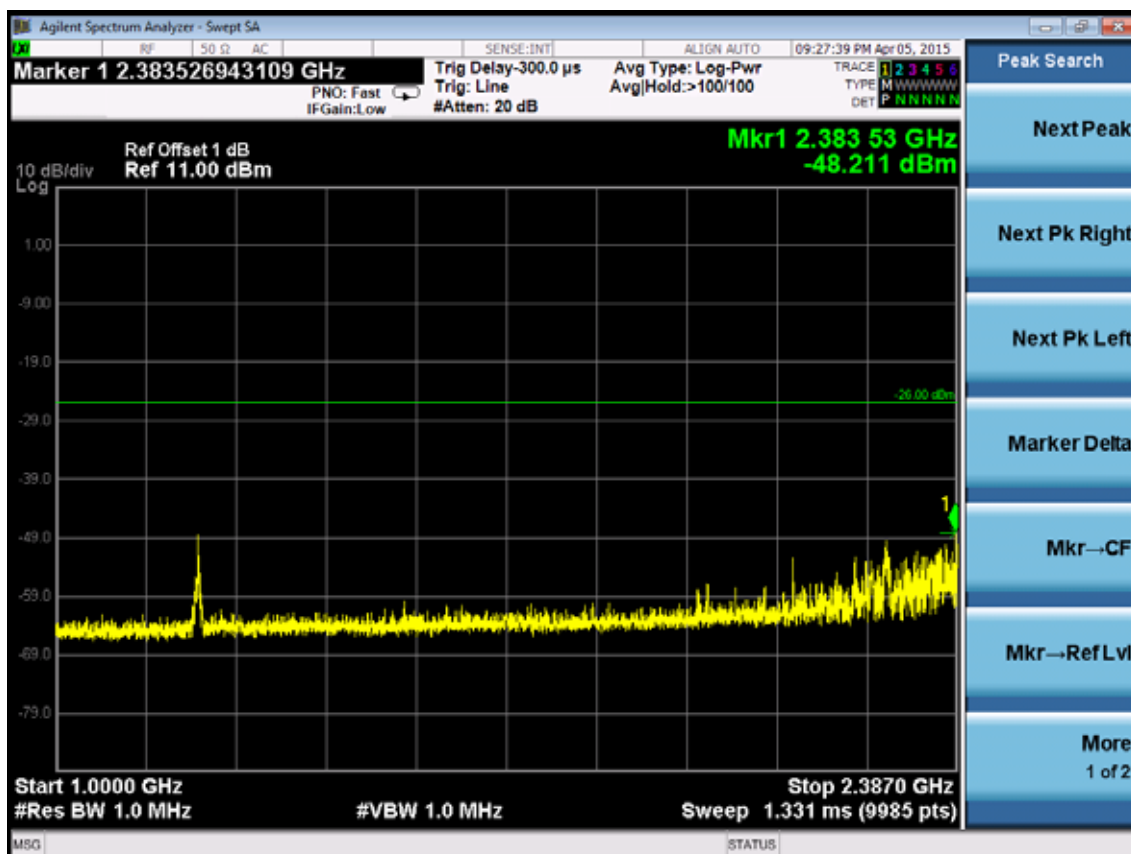
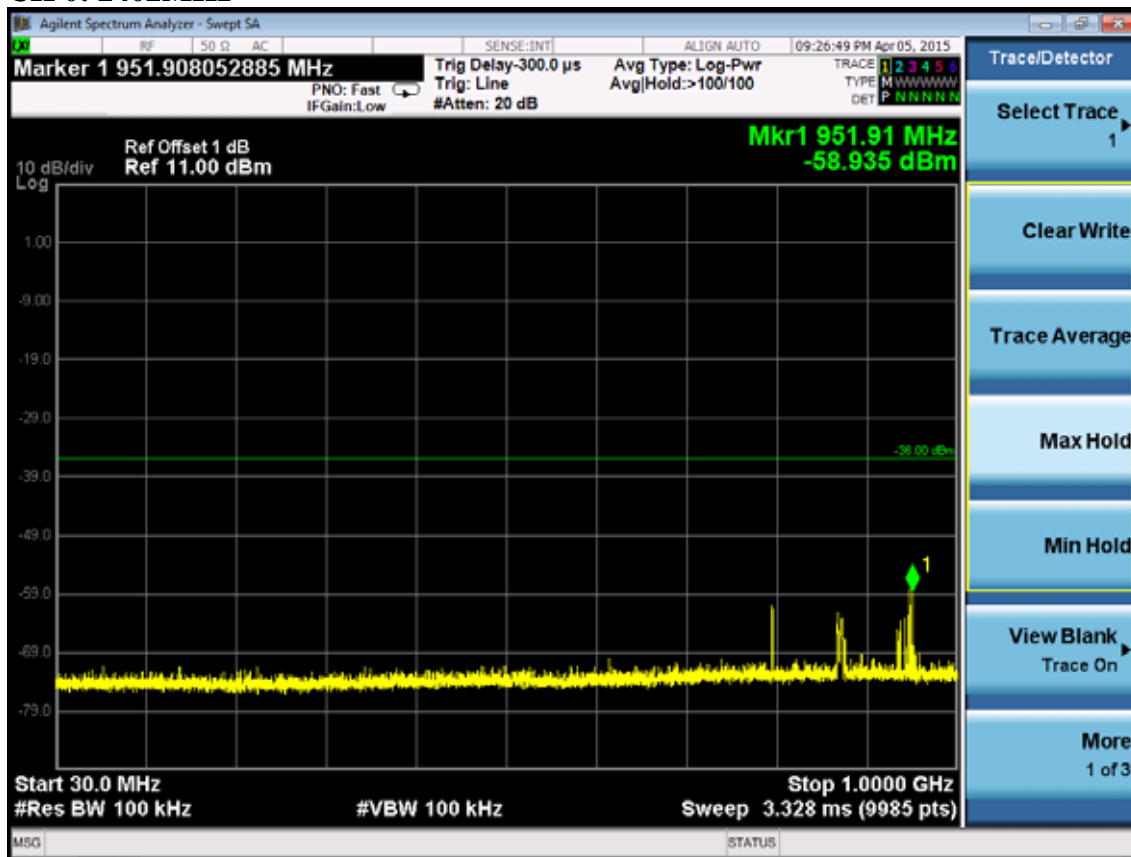
- *1: Frequency Band (30MHz \leq f \leq 1000MHz)
- *2: Frequency Band (1000MHz \leq f < 2387MHz)
- *3: Frequency Band (2387MHz \leq f < 2400MHz)
- *4: Frequency Band (2483.5MHz < f \leq 2496.5MHz)
- *5: Frequency Band (2496.5MHz \leq f \leq 13000MHz)

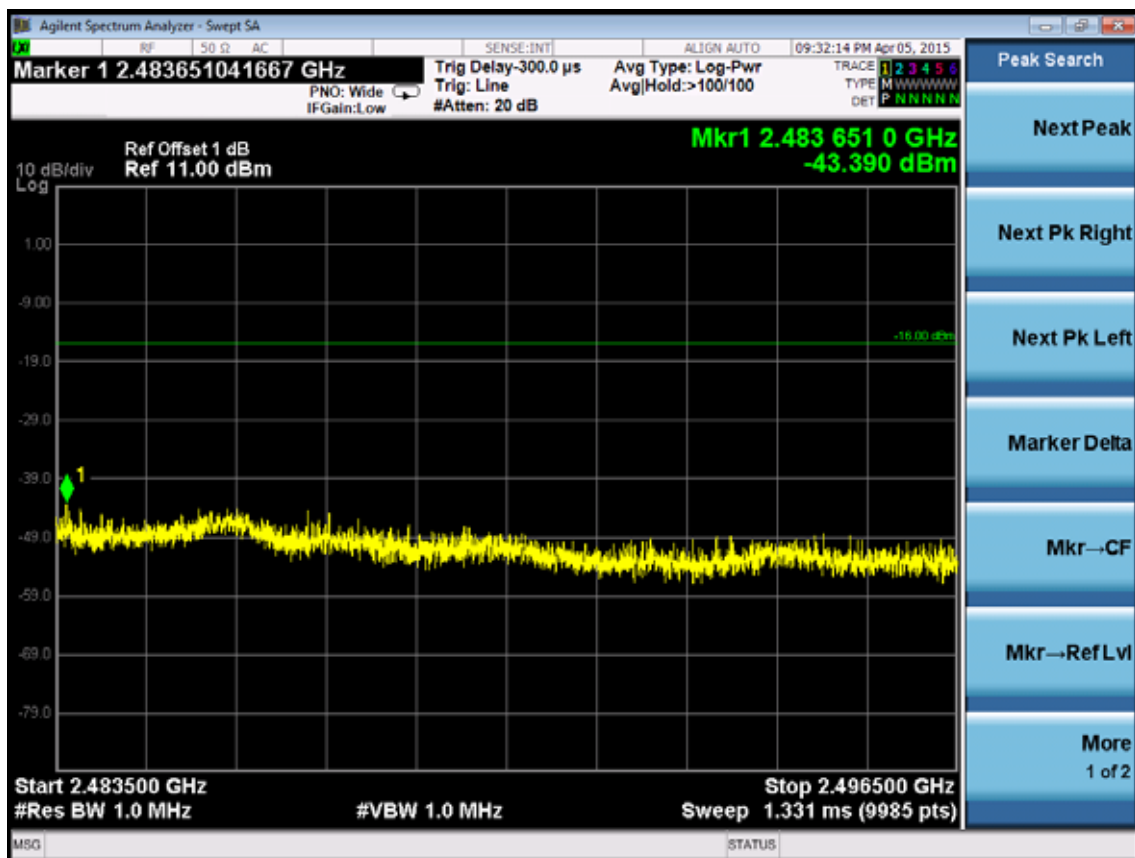
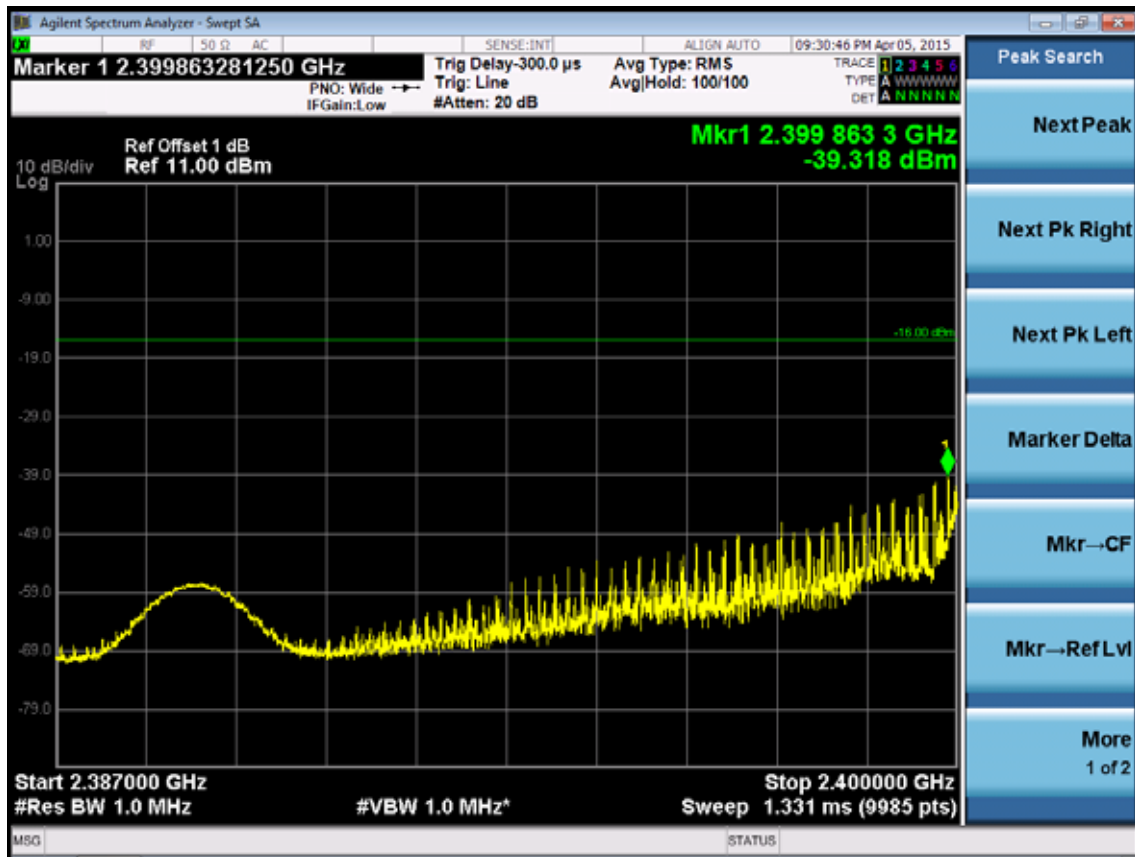
EUT: Cuieboard3		
M/N: Cubietruck		
Test date: 2015-04-05	Pressure: 101.3±1.0kpa	Humidity: 52.4±3.0%
Tested by: Kobe-Huang	Test site: RF Site	Temperature: 23.3±0.6

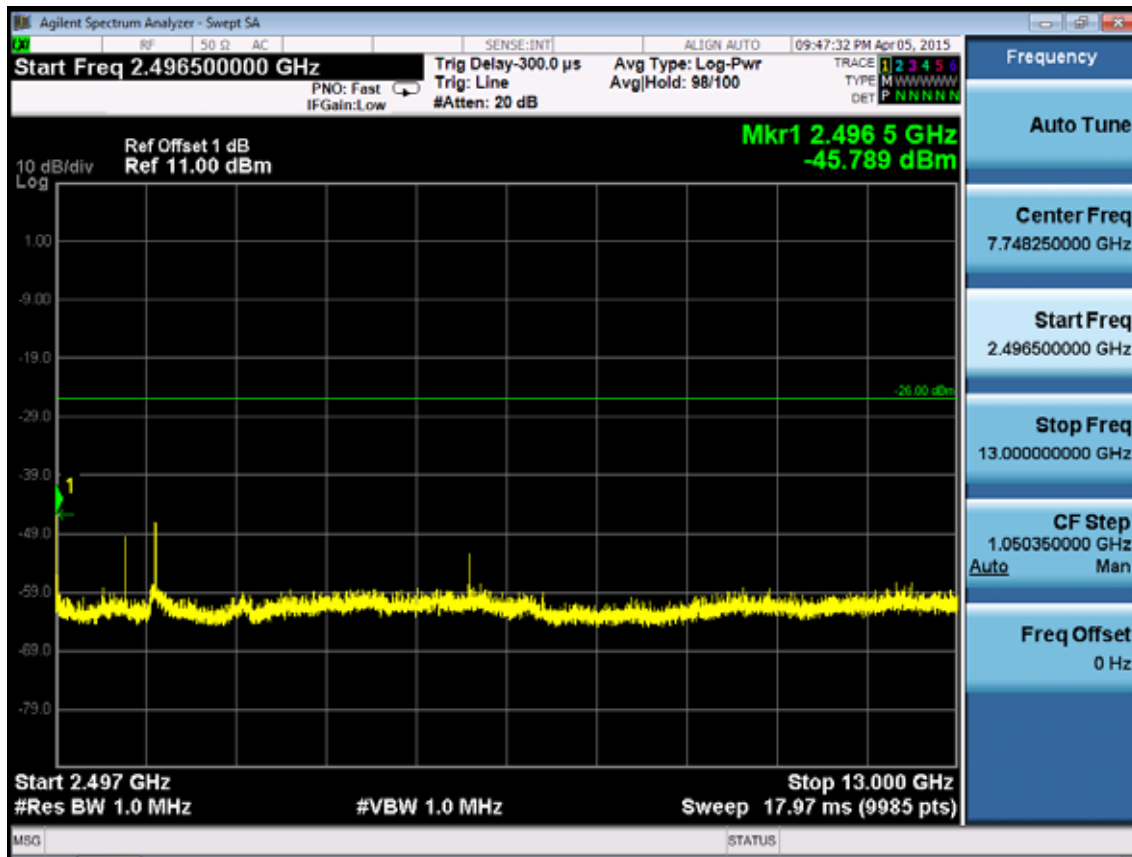
Test Mode	GFSK(CH0,CH19,CH39)				Remarks	Result
Test Frequency	MHz	2402	2440	2480	Low/Mid/High of test frequency range	(Pass/Fail)
*1	dBm/100kHz	-58.935	-60.521	-60.051	Limit 2.5 μ W/MHz (-36dBm/100kHz)	Pass
*2	dBm/MHz	-48.211	-51.863	-52.186	Limit 2.5 μ W/MHz (-26dBm/MHz)	Pass
*3	dBm/MHz	-39.318	-50.353	-48.740	Limit 25 μ W/MHz (-16dBm/MHz)	Pass
*4	dBm/MHz	-43.390	-47.885	-43.011	Limit 25 μ W/MHz (-16dBm/MHz)	Pass
*5	dBm/MHz	-45.789	-47.929	-50.309	Limit 2.5 μ W/MHz (-26dBm/MHz)	Pass

Test Modulation: GFSK

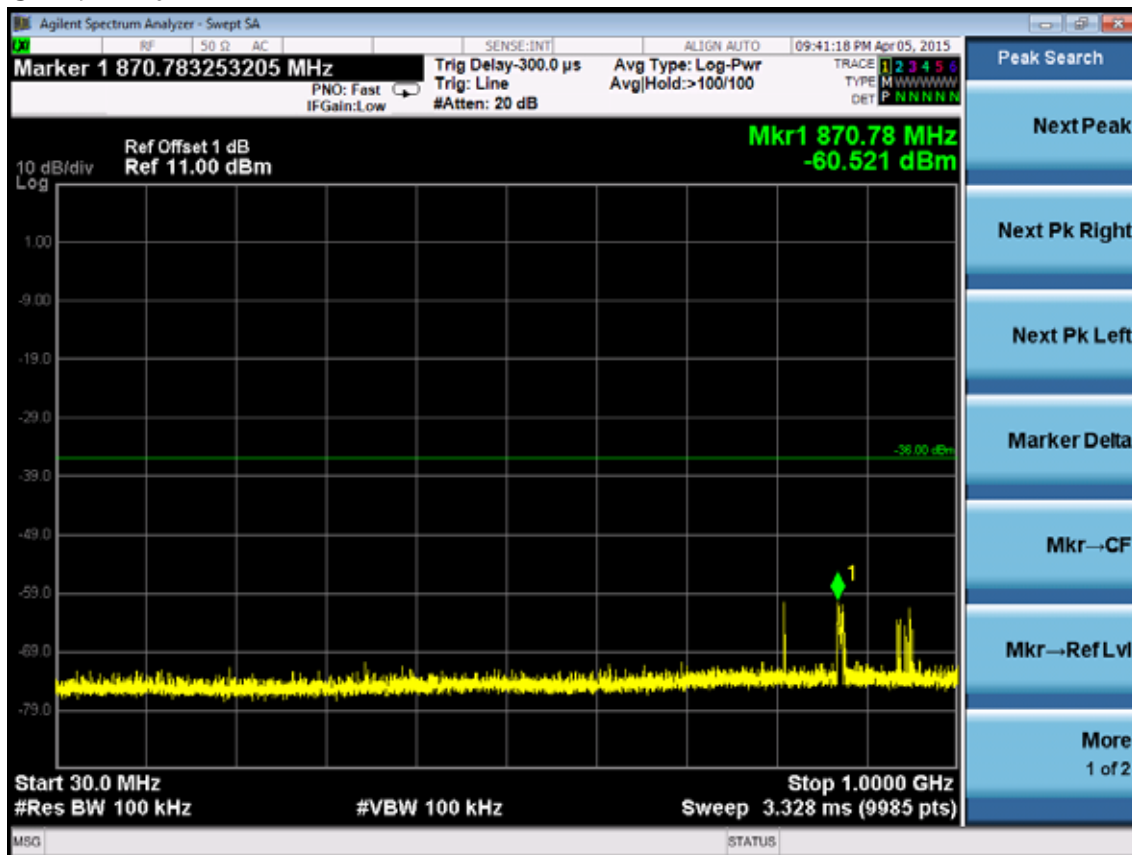
CH 0: 2402MHz

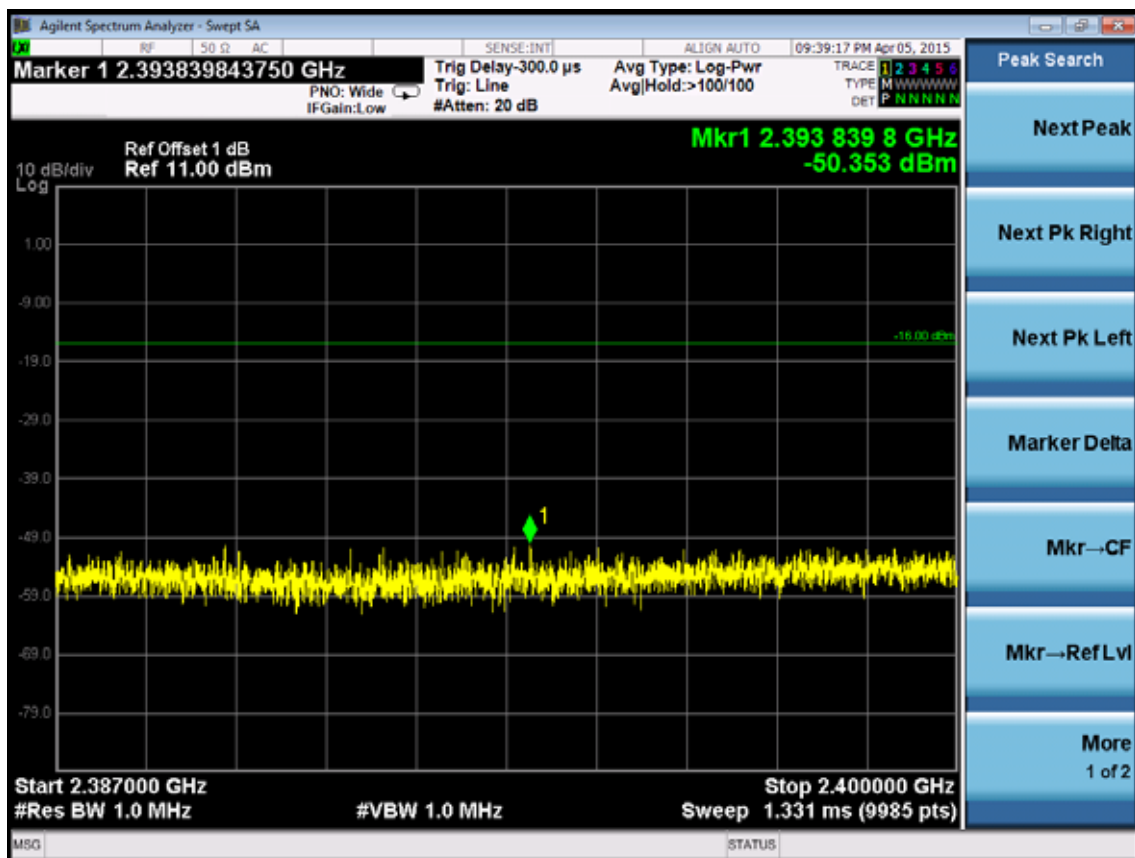
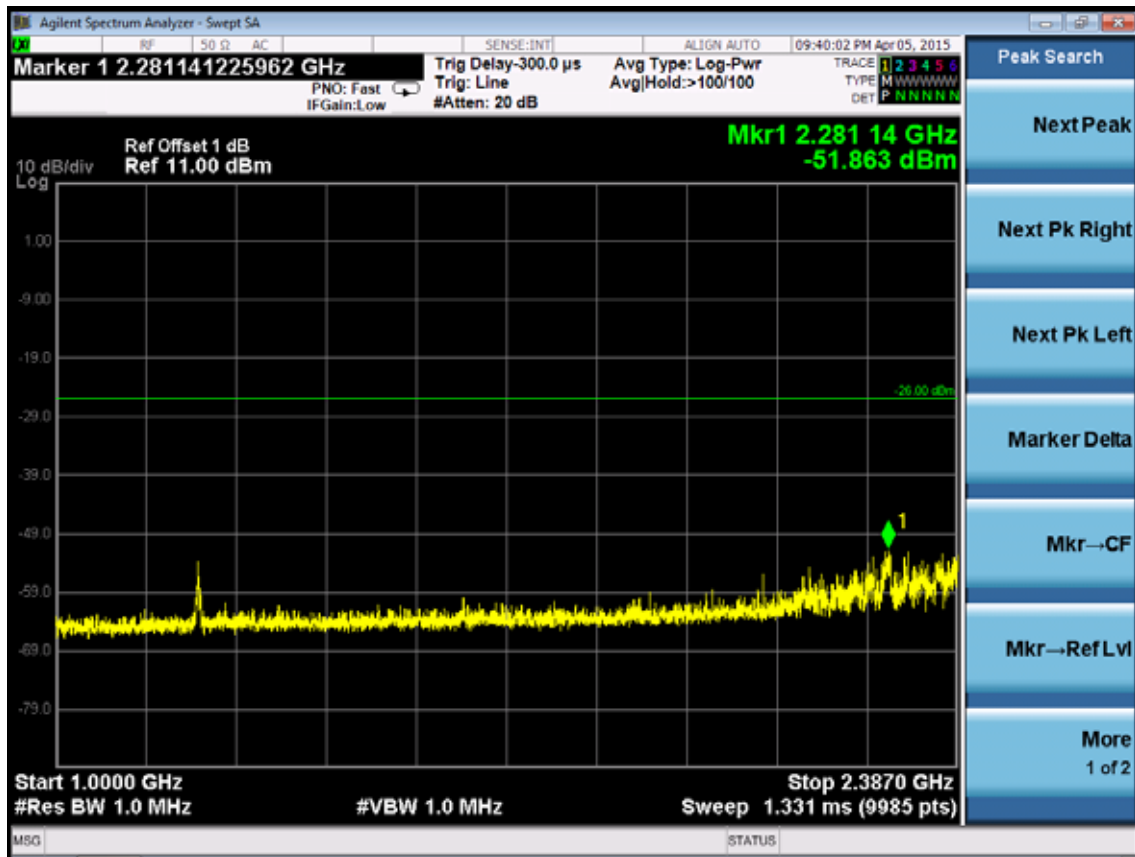


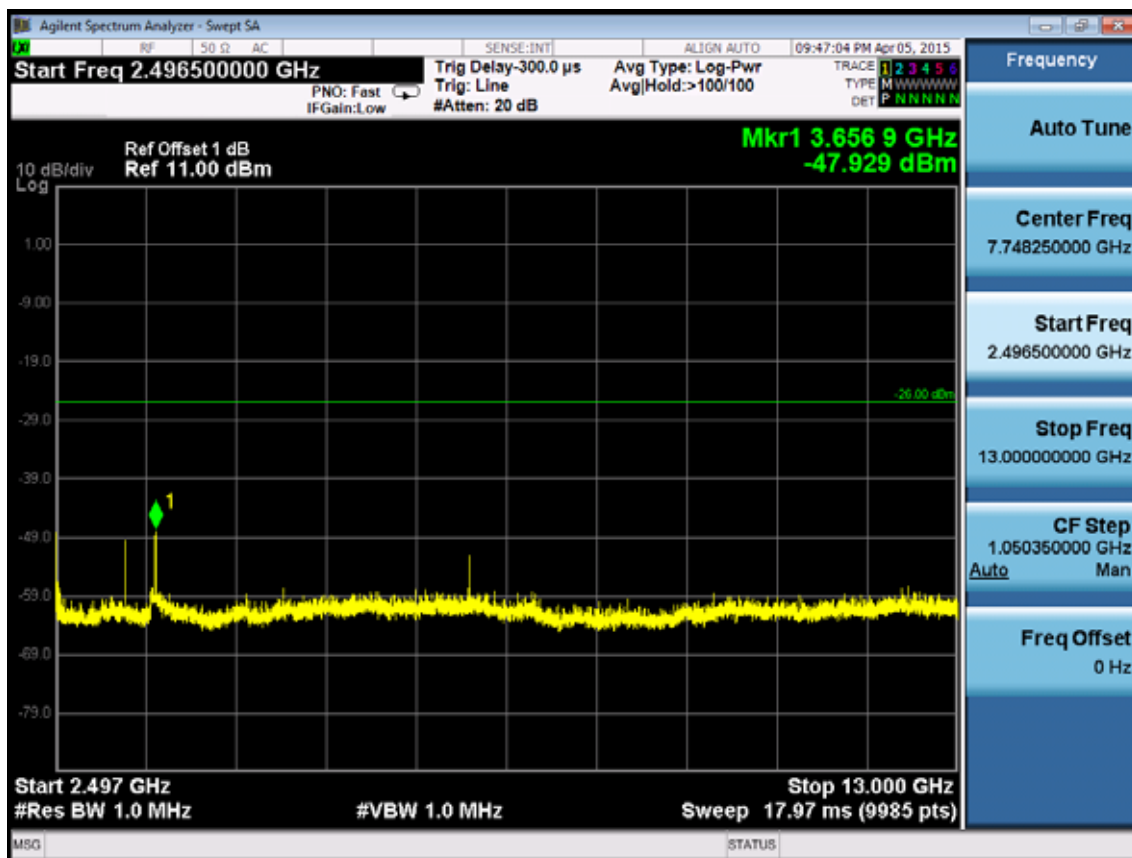
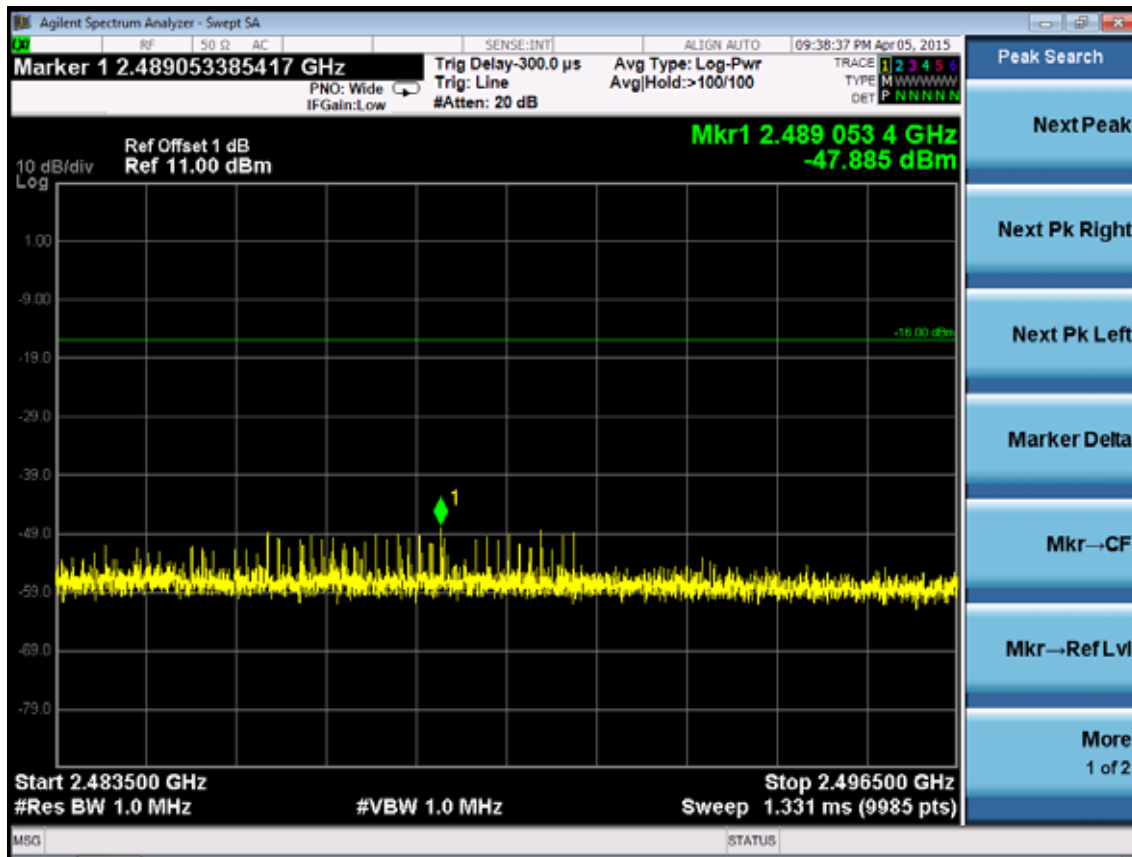




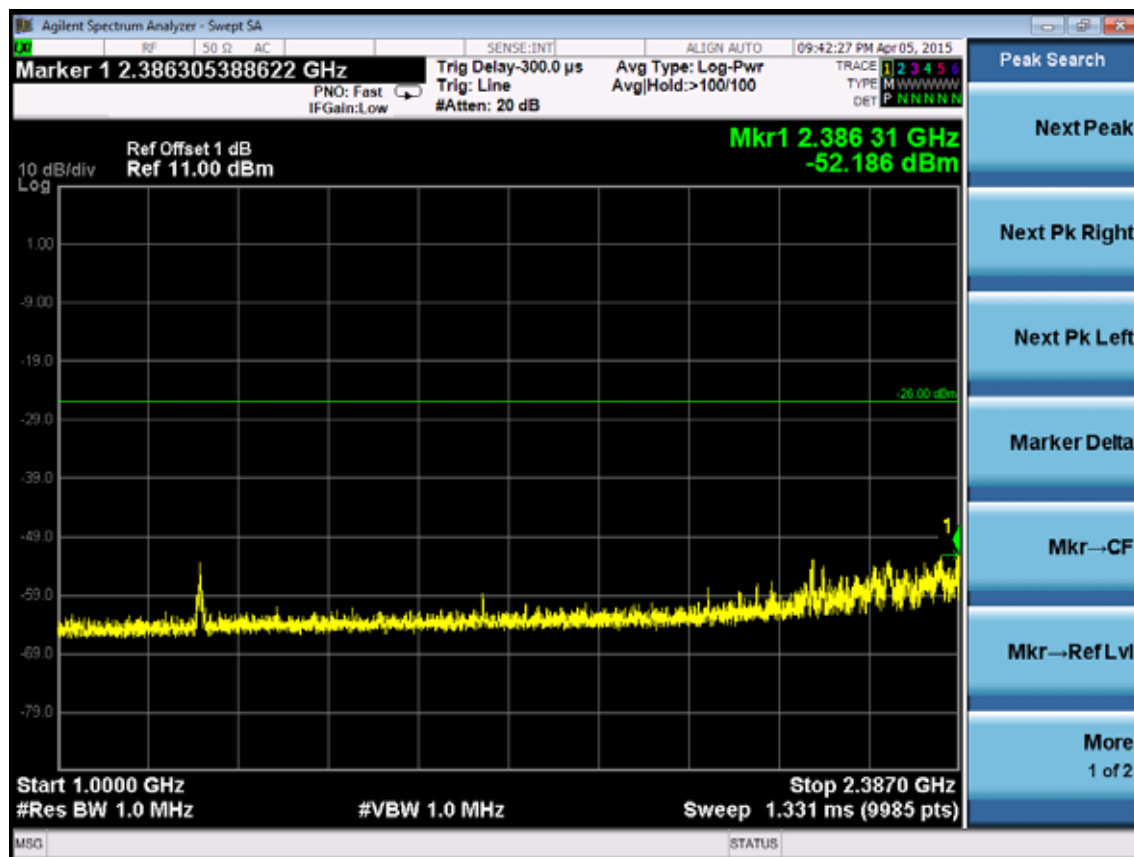
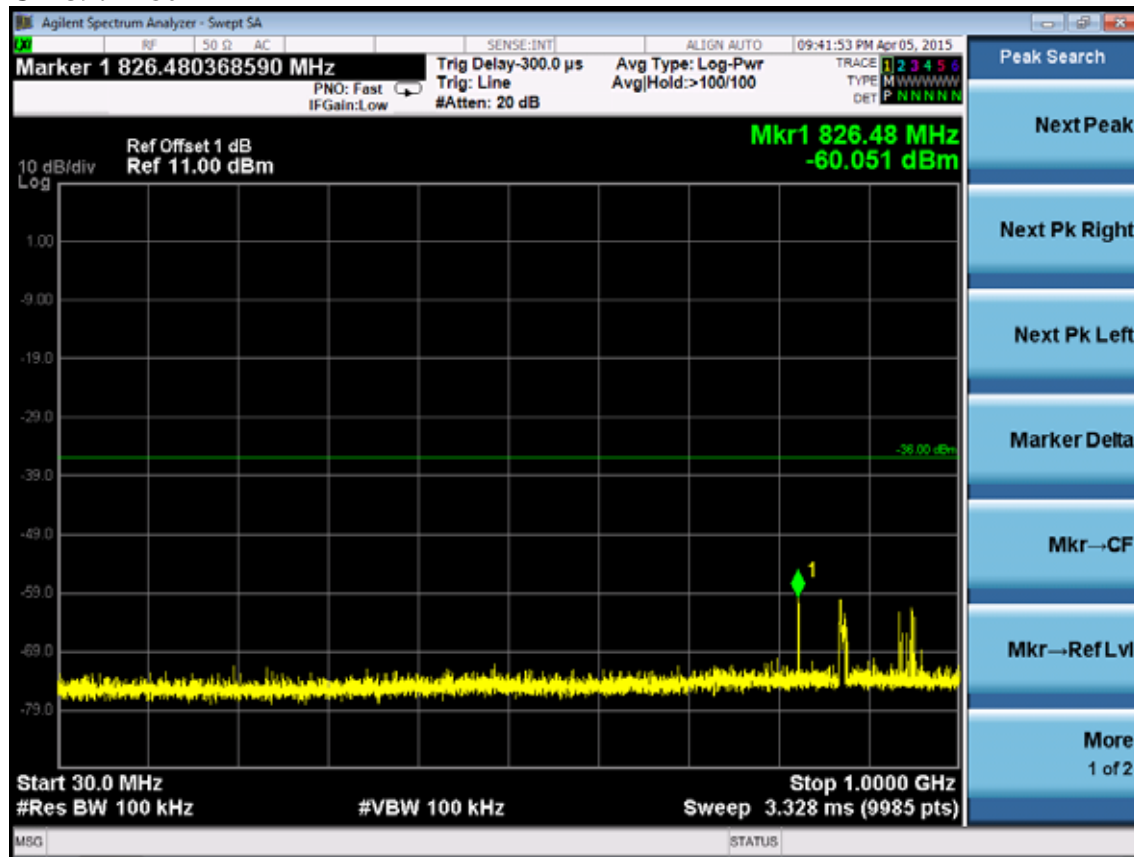
CH 19 2440MHz

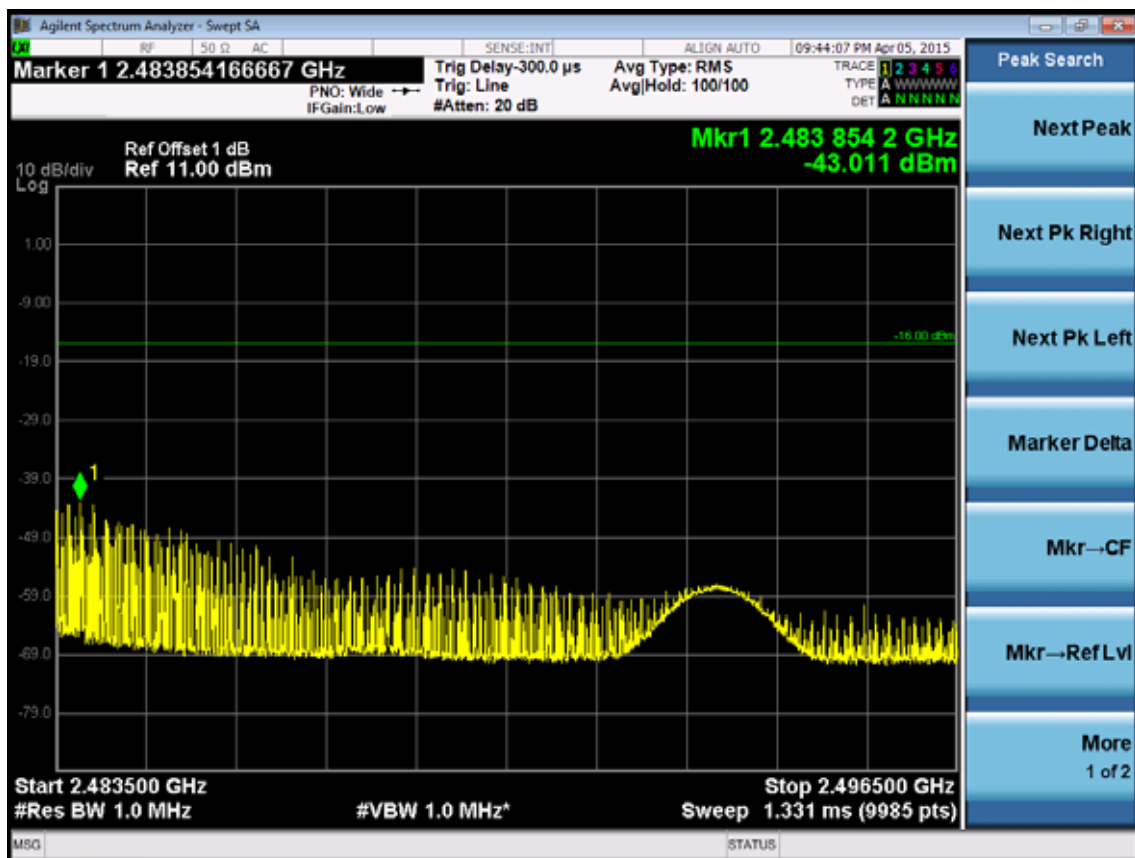
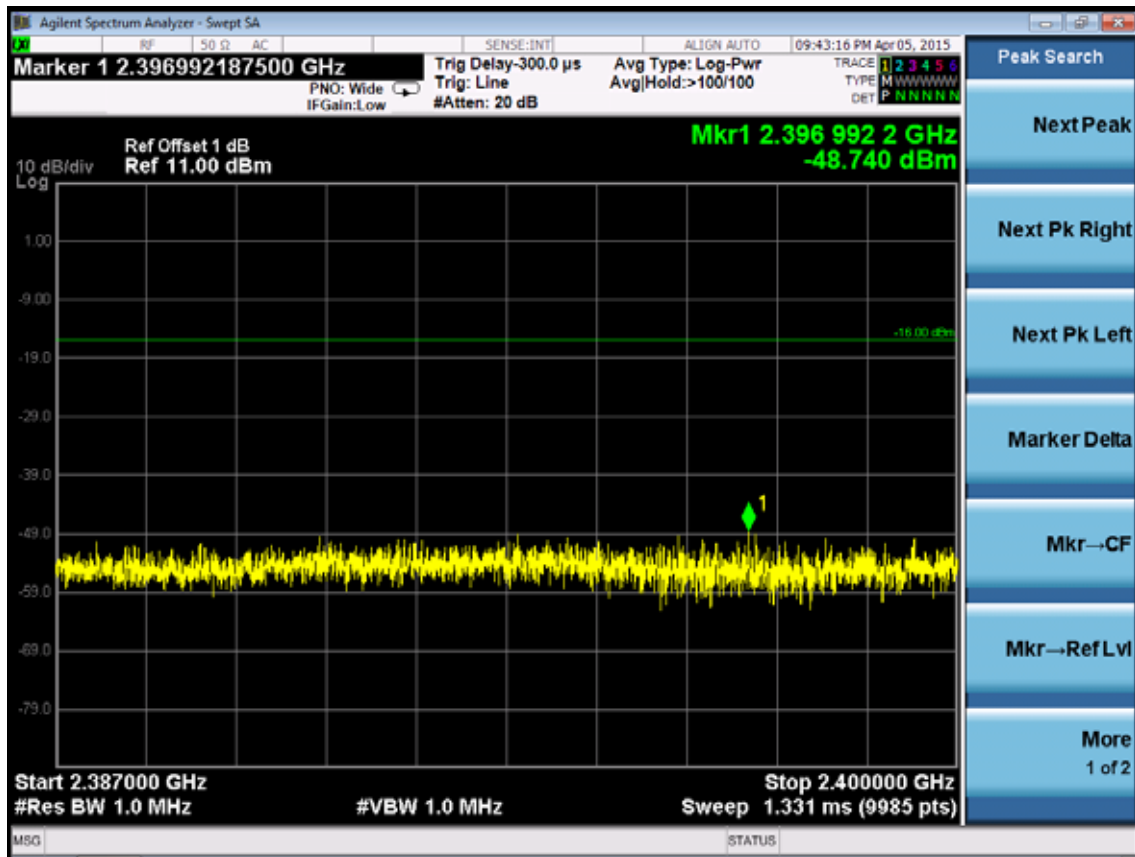


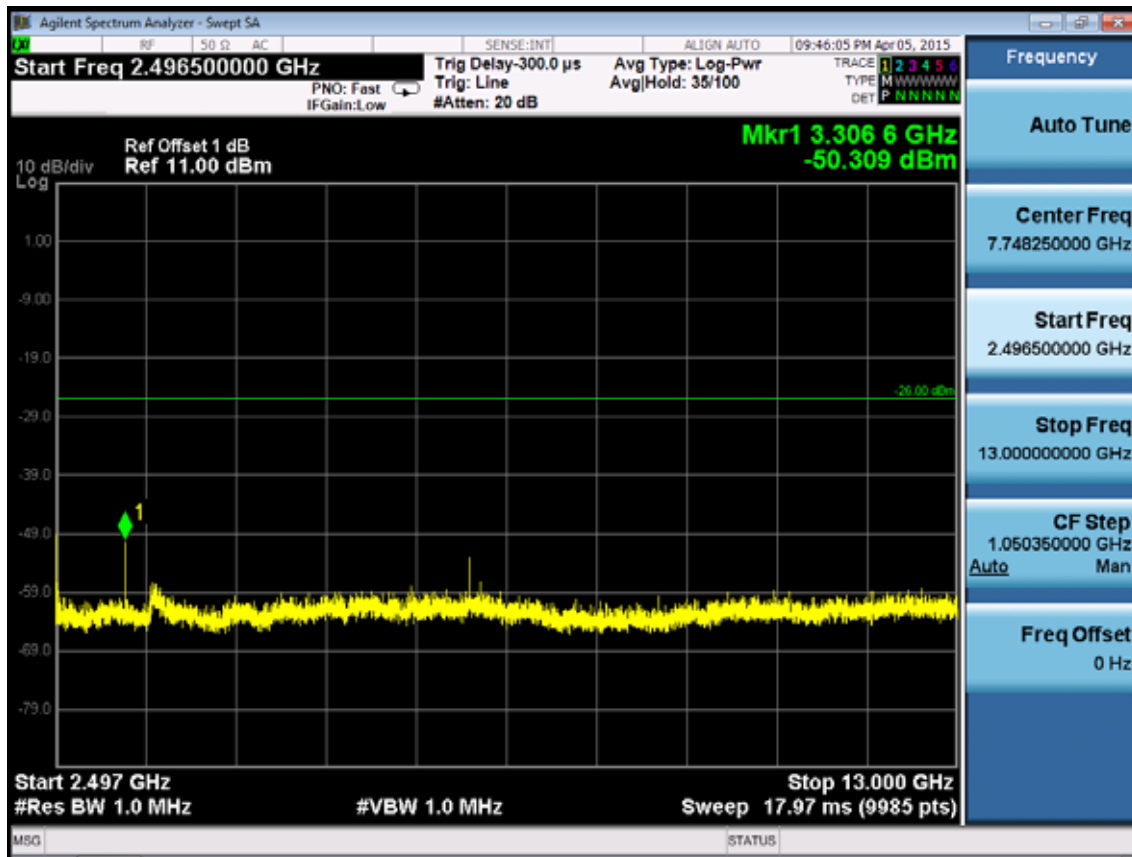




CH 39: 2480MHz







4. MEASUREMENTS OF RECEIVER PARAMETERS

4.1. Secondary Radiated Emissions (Conducted)

4.1.1. Limit

Item	Limits
Rx Spurious Emission	4nW($f < 1\text{GHz}$)
	20nW($1\text{GHz} \leq f$)

4.1.2. Measuring Instruments

See list of measuring instruments of 2.3 section.

4.1.3. Test Procedures

1. EUT have the continuous reception mode and fixed only one channelize.
2. SA set RBW: 100KHz and VBW: 100KHz. Then adjust to start frequency 30MHz and stop frequency 1000MHz. Search to mark peak reading value + cable loss shall be less than 4nW.
3. SA set RBW: 1MHz and VBW: 1MHz. Then adjust to start frequency 1000MHz and stop frequency 13000MHz. Search to mark peak reading value + cable loss shall be less than 20nW.
4. If power level of lower emissions are more than 1/10 of limit (0.4nW for $f < 1\text{GHz}$, 2nW for $f \geq 1\text{GHz}$), all those are to be indicated in the 2nd and 3rd lines. If others are 1/10 or less more of the limit, no necessary to be indicated.

4.1.4. Test Setup

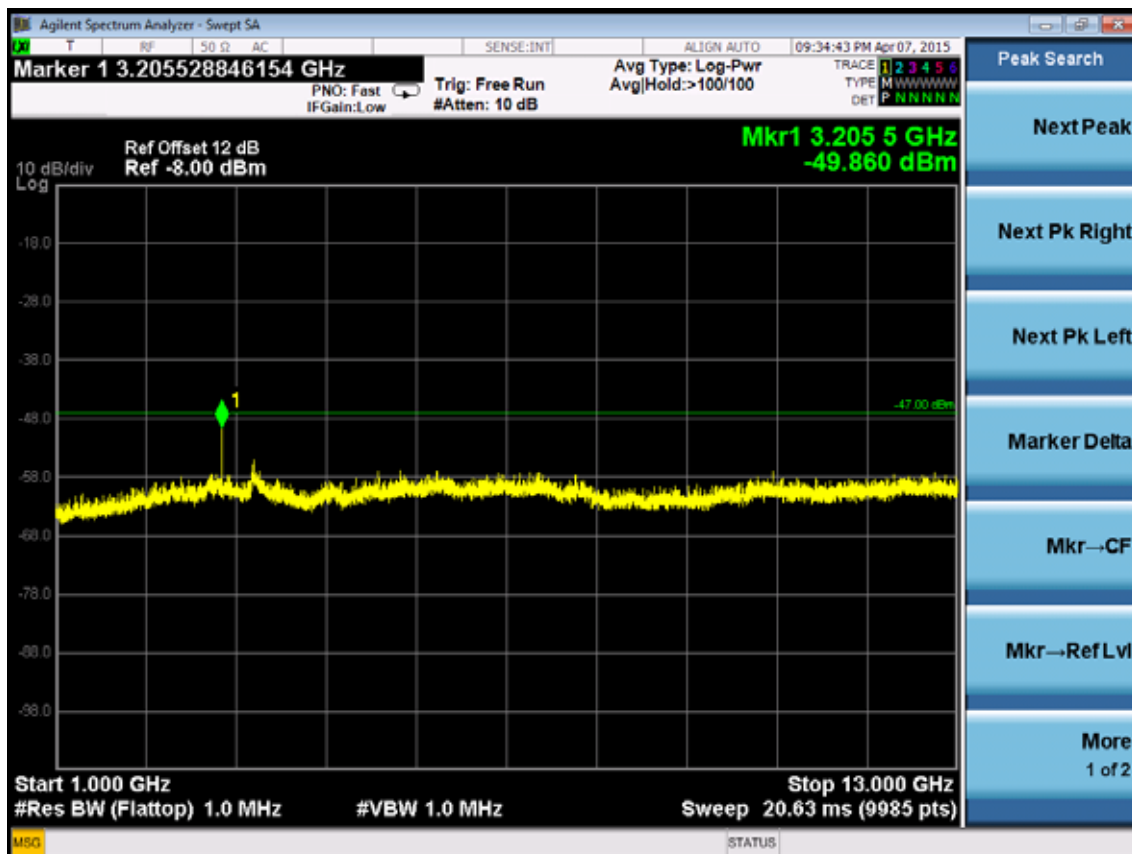
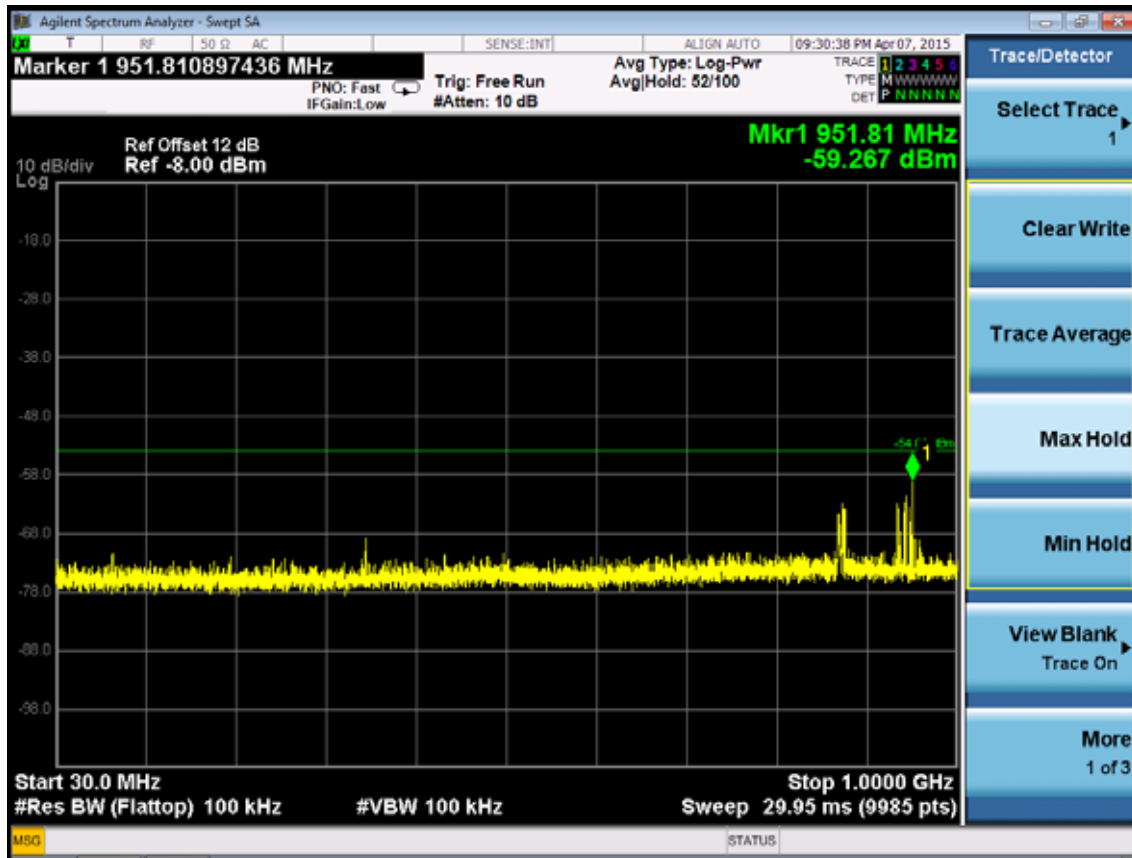
See clause 2.2 for block diagram of test setup.

4.1.5. Test Results of Conducted Spurious Emissions – RX Operating

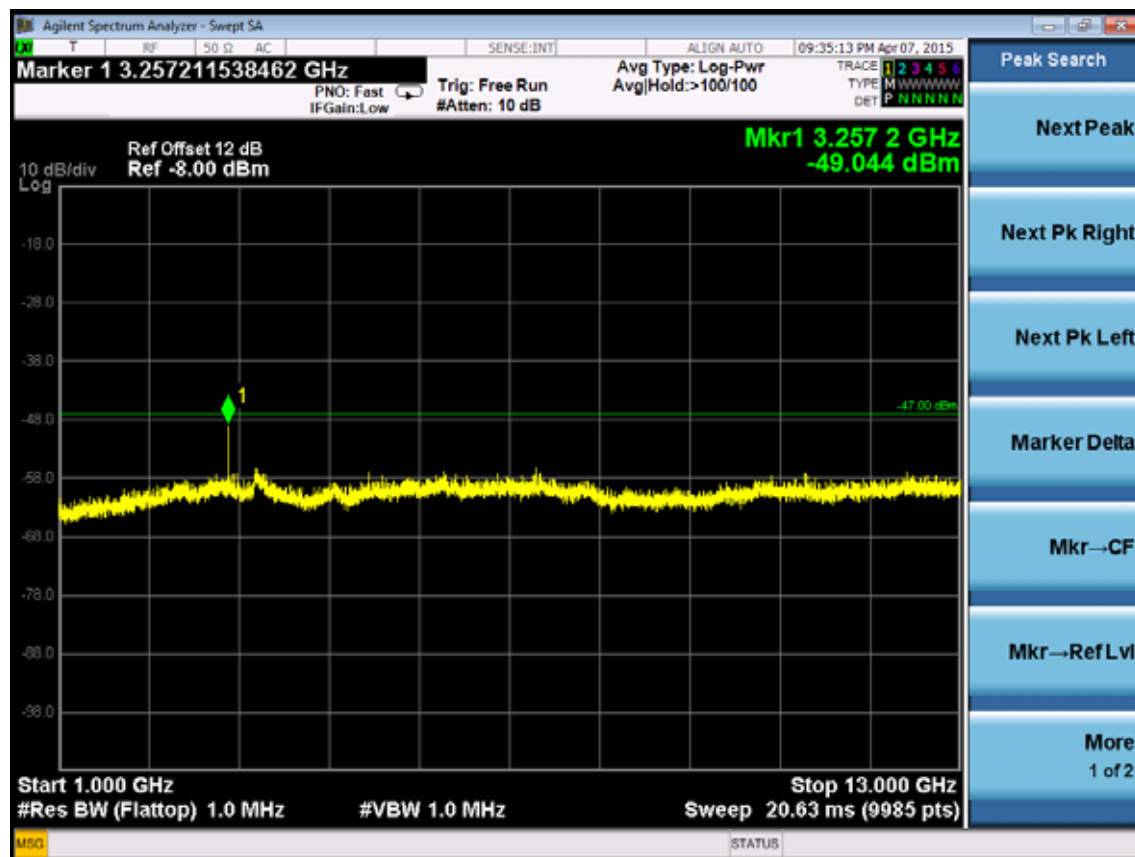
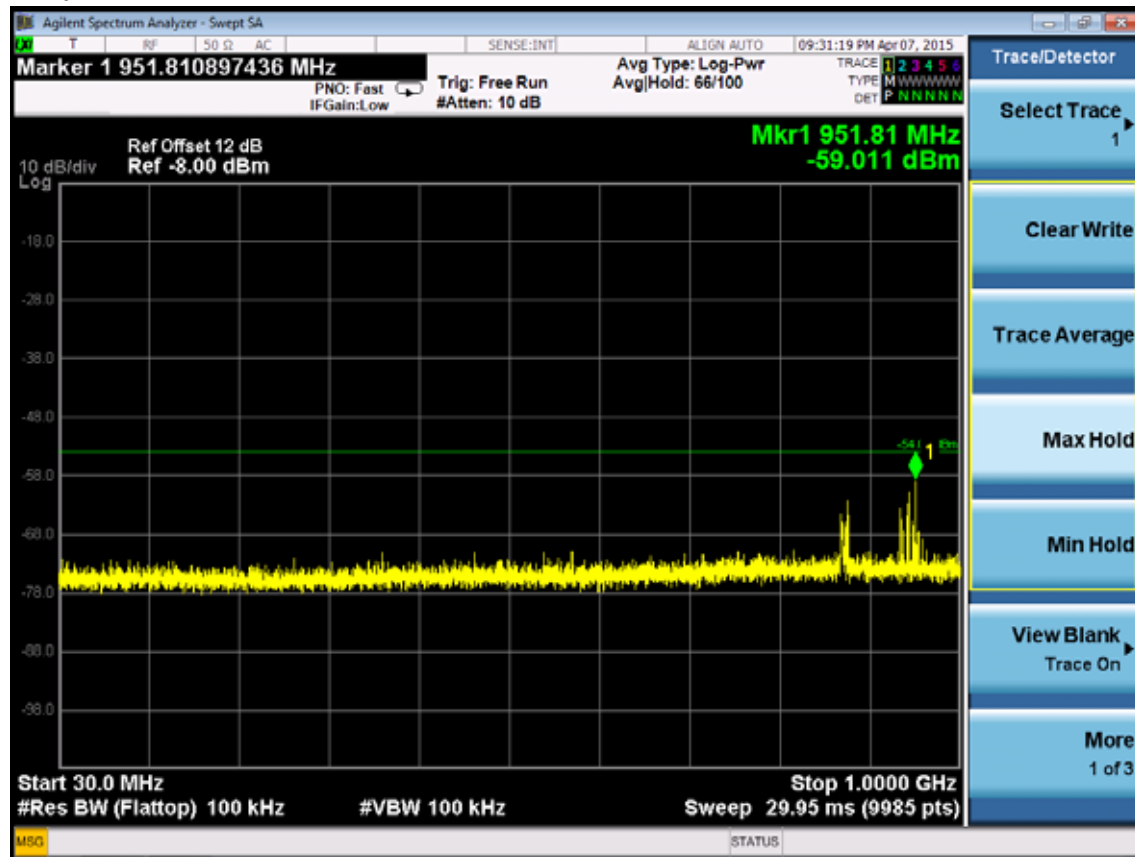
EUT: Cuieboard3		
M/N: Cubietruck		
Test date: 2015-04-07	Pressure: 101.5 ± 1.0kpa	Humidity: 53.3 ± 3.0%
Tested by: Kobe-Huang	Test site: RF Site	Temperature: 23.6 ± 0.6

Test Voltage	DC 5V					
Test Mode	GFSK/CH0,CH39,CH78				Remarks	Result
Test Frequency	MHz	2402	2440	2480	Low/Mid/High of test frequency range	(Pass/Fail)
30MHz~1000MHz	dBm	-59.267	-59.011	-59.778	Limit 4nW (-54dBm)	Pass
1000 MHz~13000MHz	dBm	-49.860	-49.044	-50.308	Limit 20nW (-47dBm)	Pass

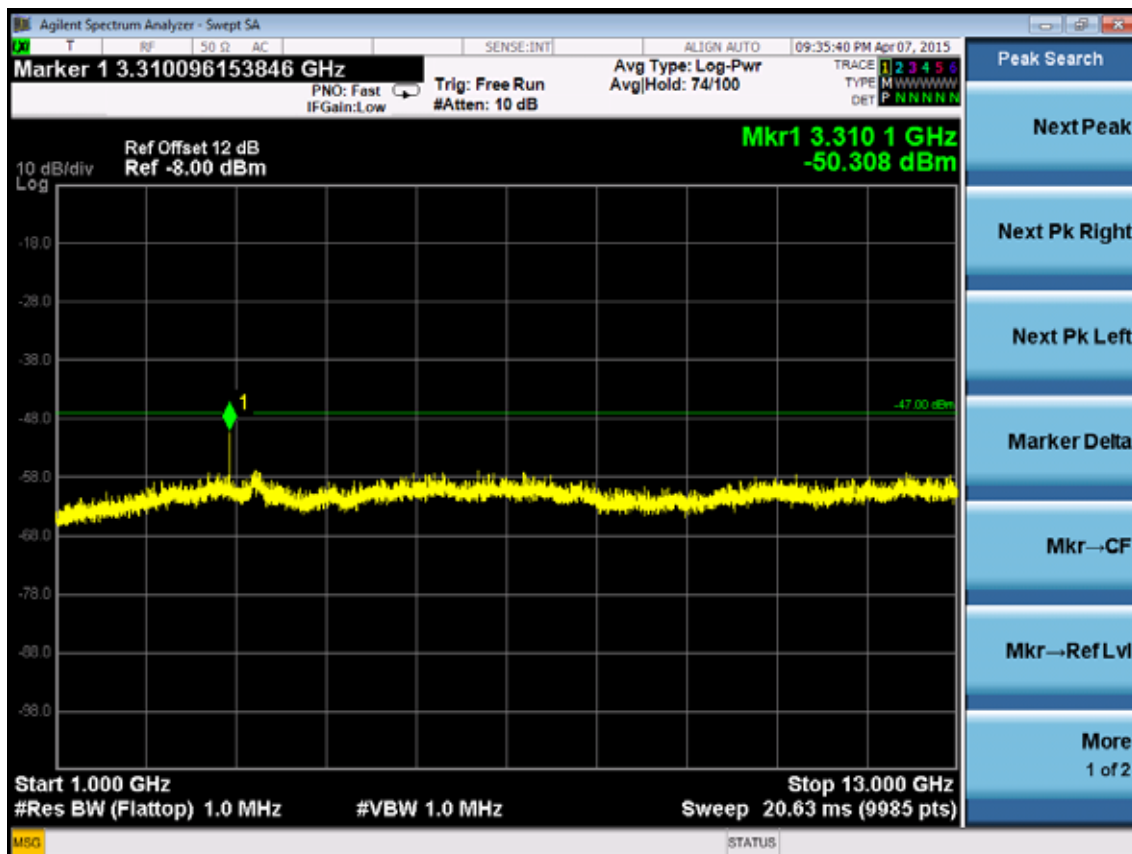
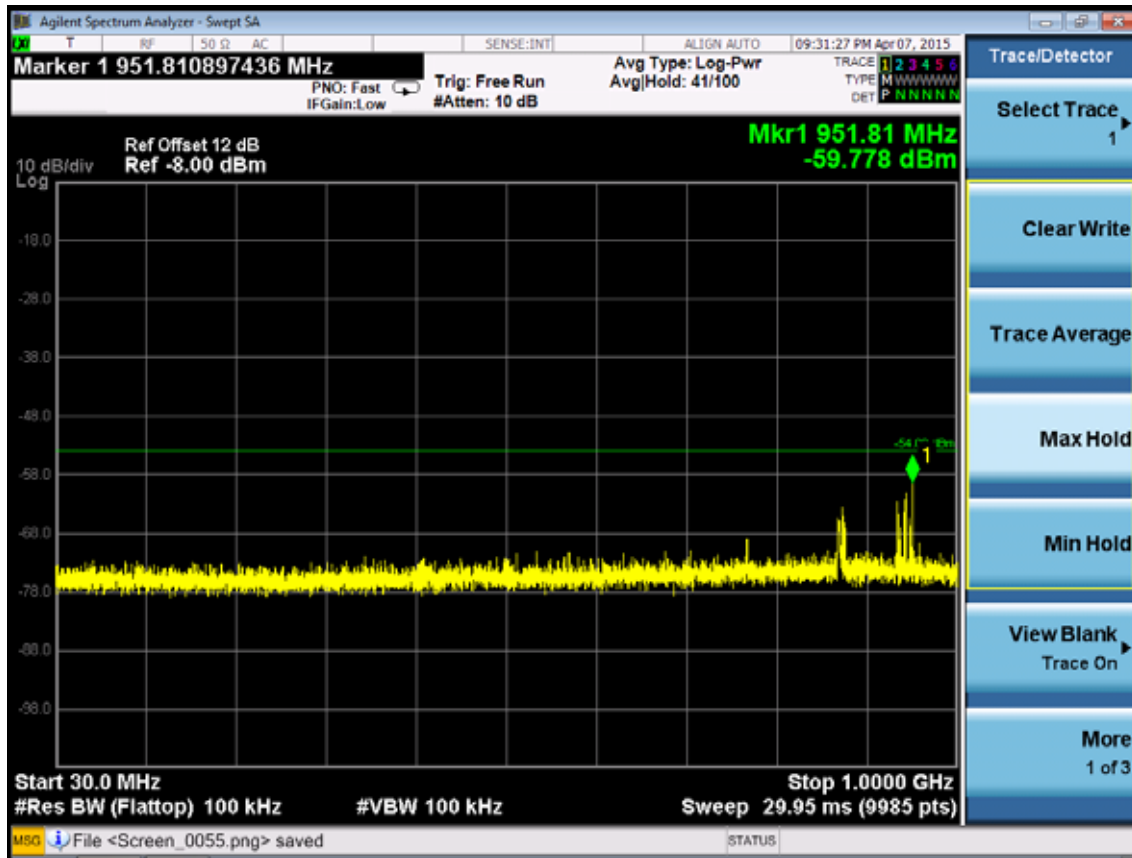
GFSK 2402MHz



2440MHz



2480MHz



5. MEASUREMENT OF OTHER PARAMETERS

5.1. Interference Prevention Function

5.1.1. Limit

Item	Limits
Identification	≥48bits

5.1.2. Test Procedures

1. In the case that the EUT has the function of automatically transmitting the identification code: a. Transmit the predetermined identification codes from EUT. b. Check the transmitted identification codes with the demodulator.
2. In the case of receiving the identification code: a. Transmit the predetermined identification codes from the counterpart. b. Check if communication is normal. c. Transmit the signals other than predetermined ID codes from the counterpart. d. Check if the EUT stops the transmission, or if it displays that identification codes are different from the predetermined ones.

5.1.3. Test Setup

See clause 2.2 for Block Diagram of test setup.

5.1.4. Test Results

TX: The transmitting mode of EUT is on normal operating, the interference prevention function is okay.

RX: The receiving mode of EUT is on normal operating, the interference prevention function is okay.

The ID code of this Bluetooth device is 43:29:B1:55:01:01 as below list:

```
root@cubietruck:~# hcitool dev
Devices:
hci0    43:29:B1:55:01:01
root@cubietruck:~#
```

5.2. Construction Protection

5.2.1. Limit

The high-frequency section and modulation section of the radio equipment except for the antenna system shall not be capable of being opened easily.

5.2.2. Confirmation Method

Sealed with special screws.
Plastic chassis is being welded using ultrasonic waves.
Chassis is glued using a special adhesive.
Metal covers are spot-fused.
Cover is specially interlocked.
RF and Modulation components are covered with shielding case and this shielding case is soldered.
RF modulation parts and ID-ROM be welded using the BGA Method.
Shield case is welded at RF and modulation parts and ID-ROM is glued at its lead with a special adhesive.
Shield case is welded at RF and modulation parts, and ID-ROM is glued with a non-transparent laminating agent.
Other: The RF module was Printed and fixed to the main board with amount contact pin, cannot be modified easily.

5.2.3. The Photos of Construction Protection

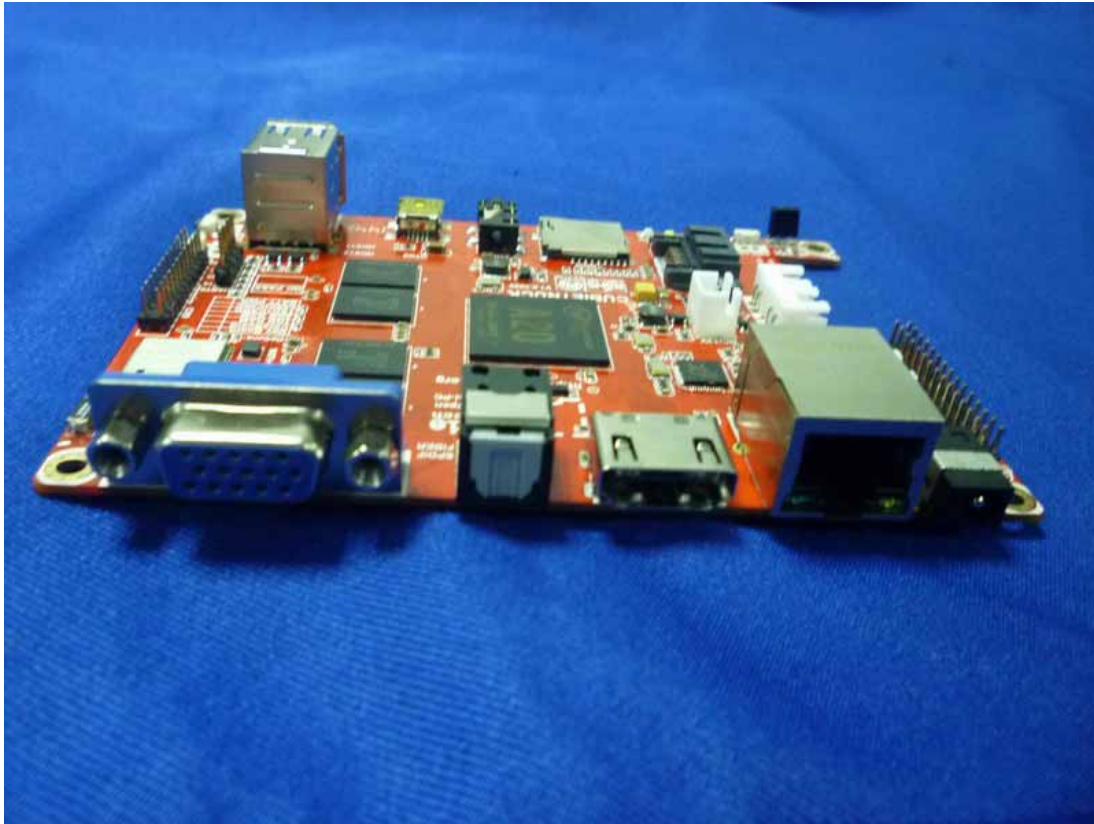
6. PHOTOGRAPHS OF TEST



7. PHOTOS OF THE EUT

Figure 1

General Appearance of the EUT

**Figure 2**

General Appearance of the EUT

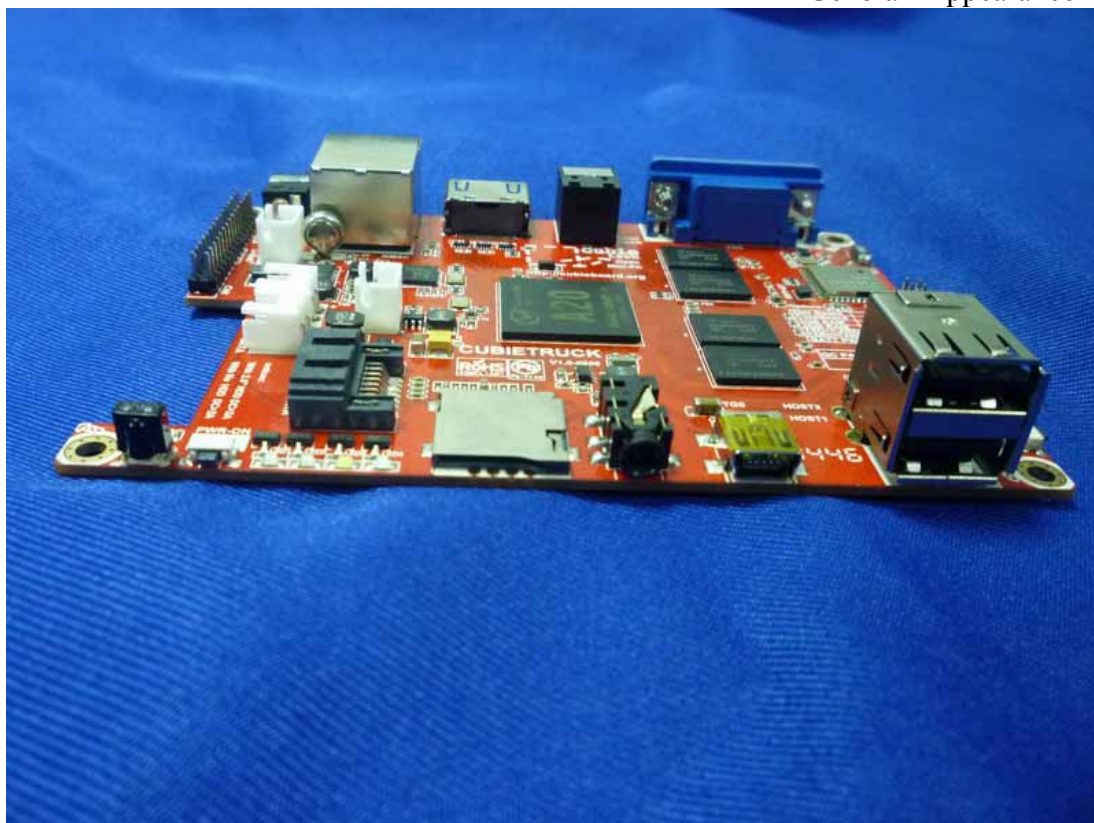


Figure 3
General Appearance of the EUT

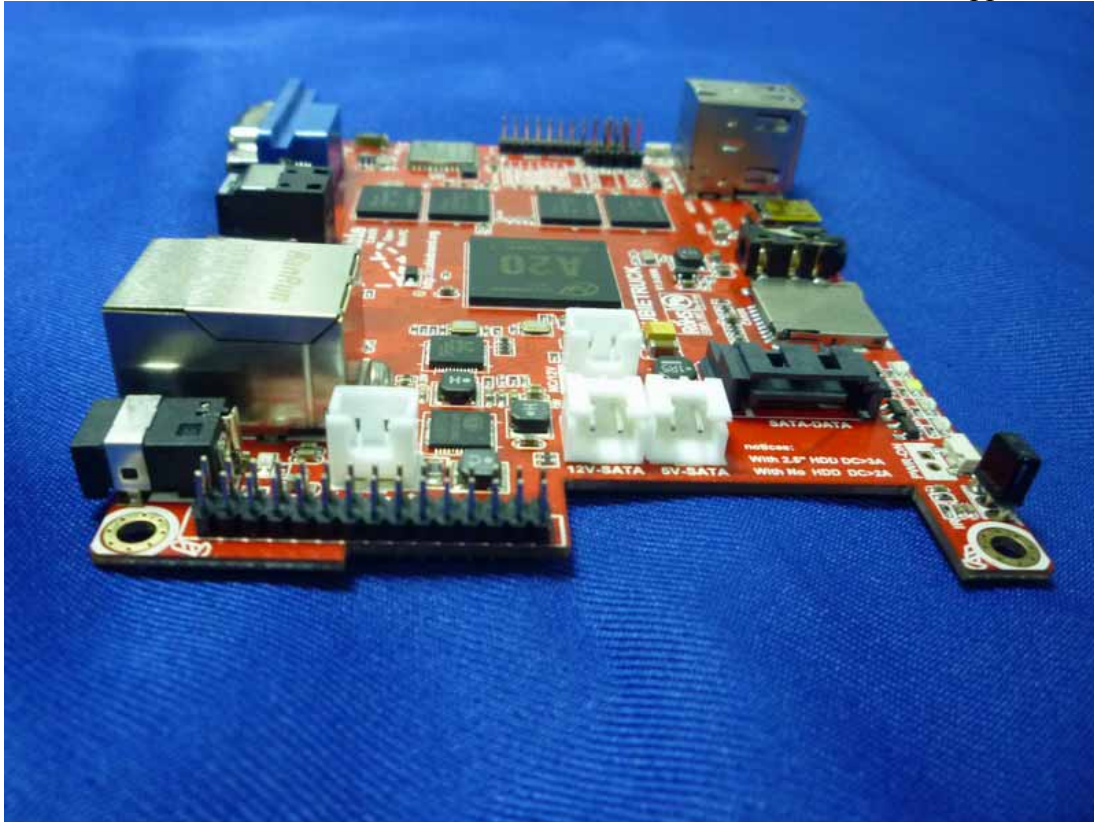


Figure 4
General Appearance of the EUT

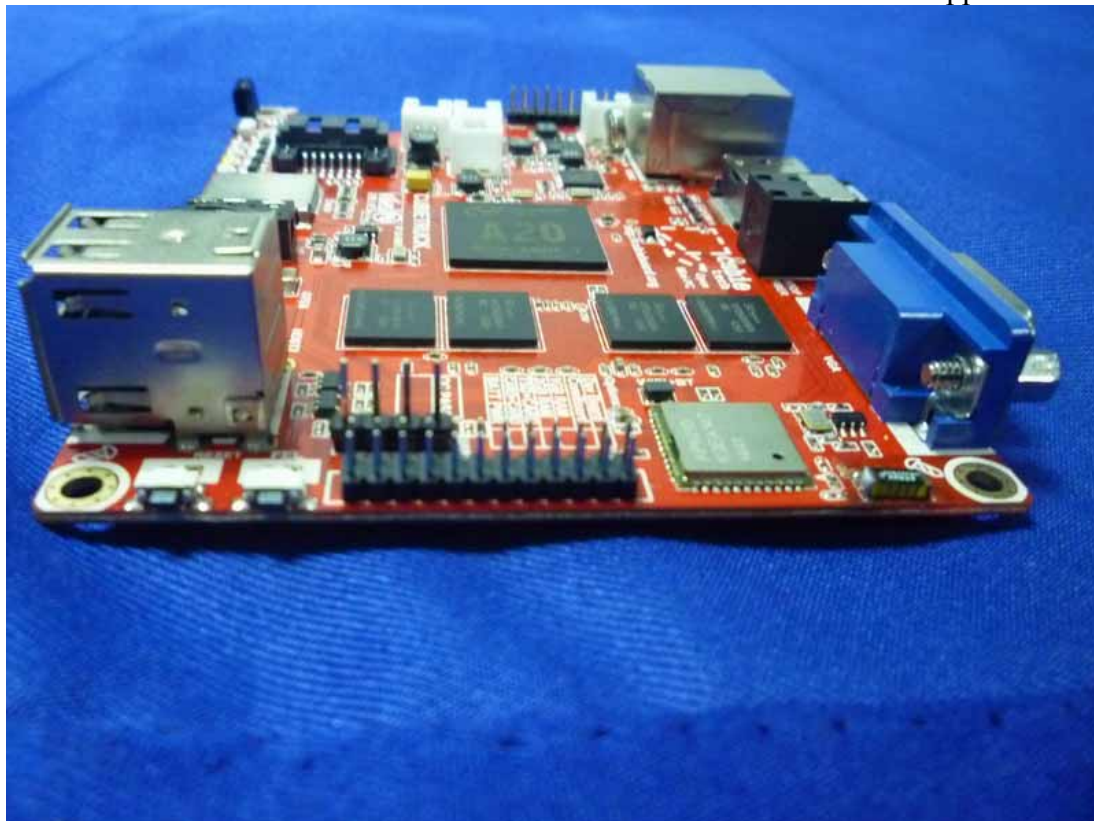


Figure 5
General Appearance of the EUT



Figure 6
General Appearance of the EUT

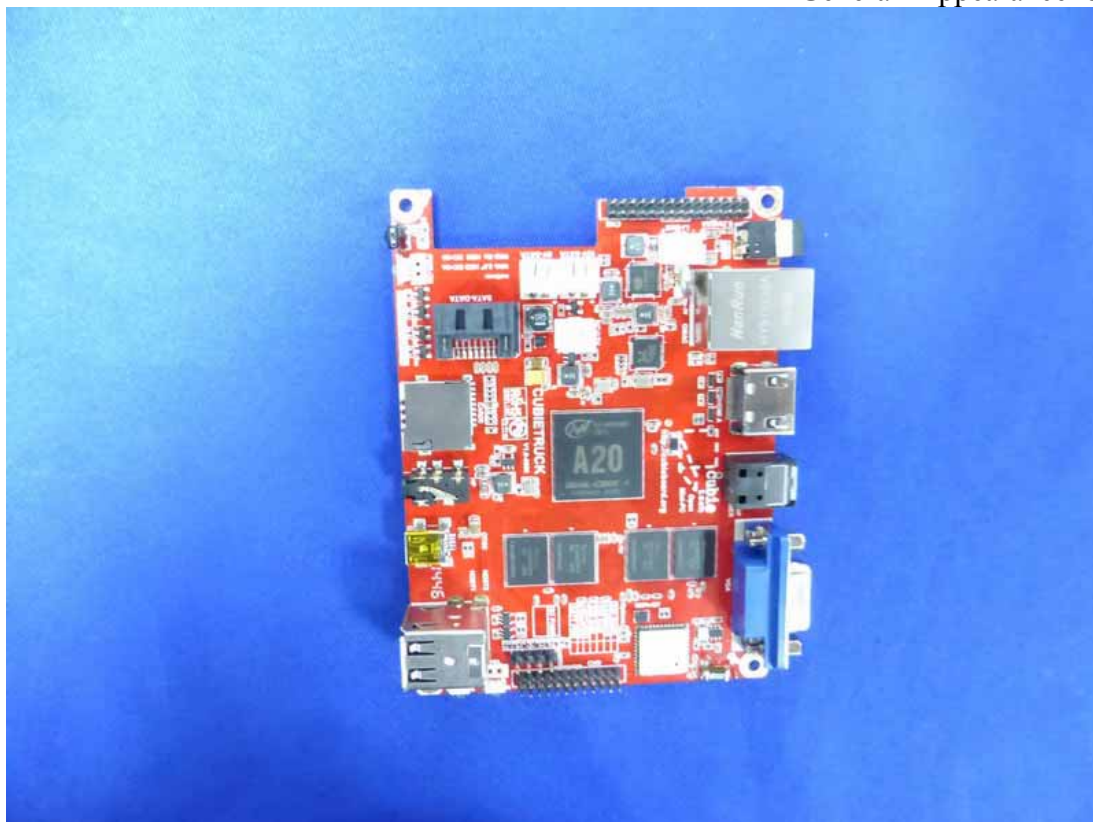


Figure 7
General Appearance of the EUT

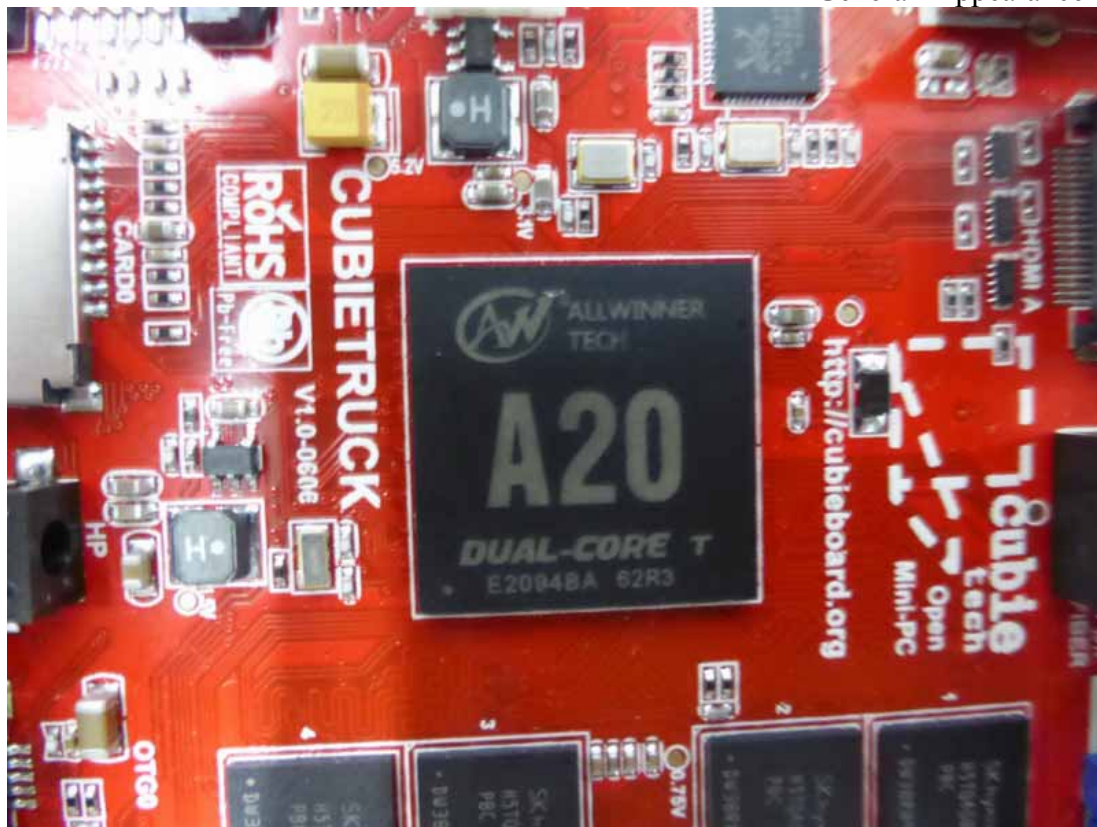


Figure 8
General Appearance of the EUT

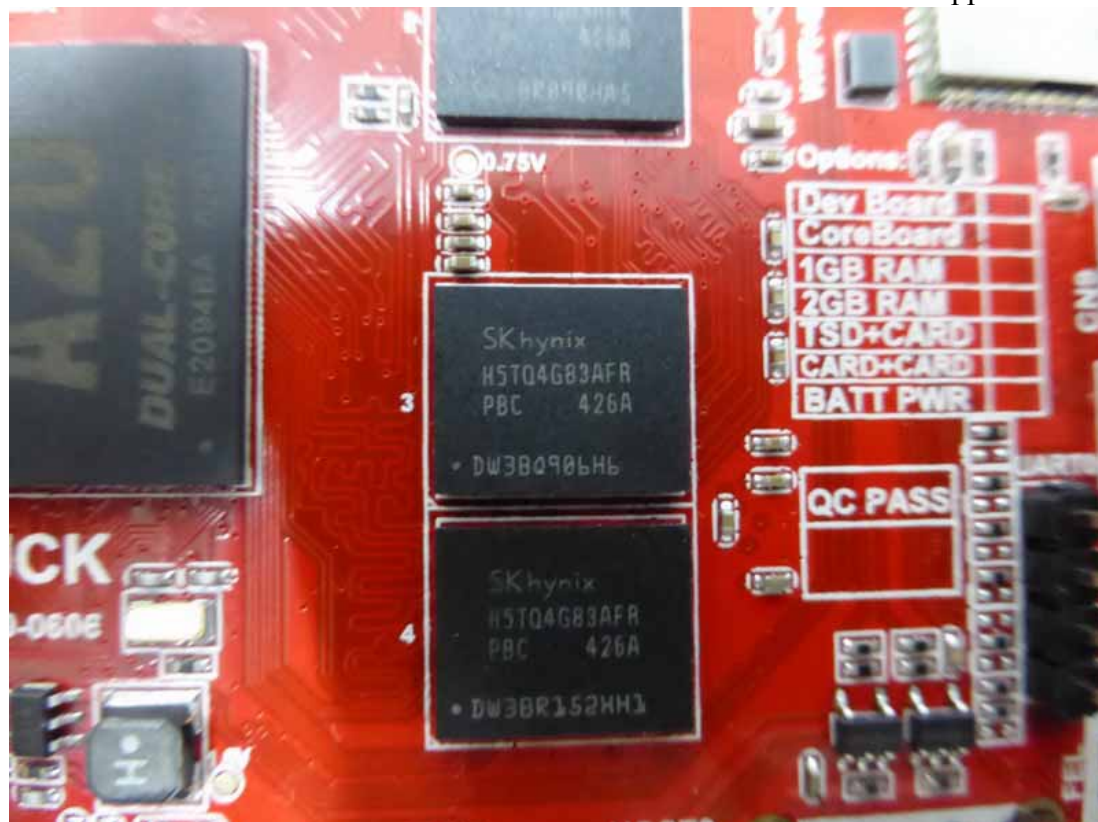


Figure 9
General Appearance of the EUT

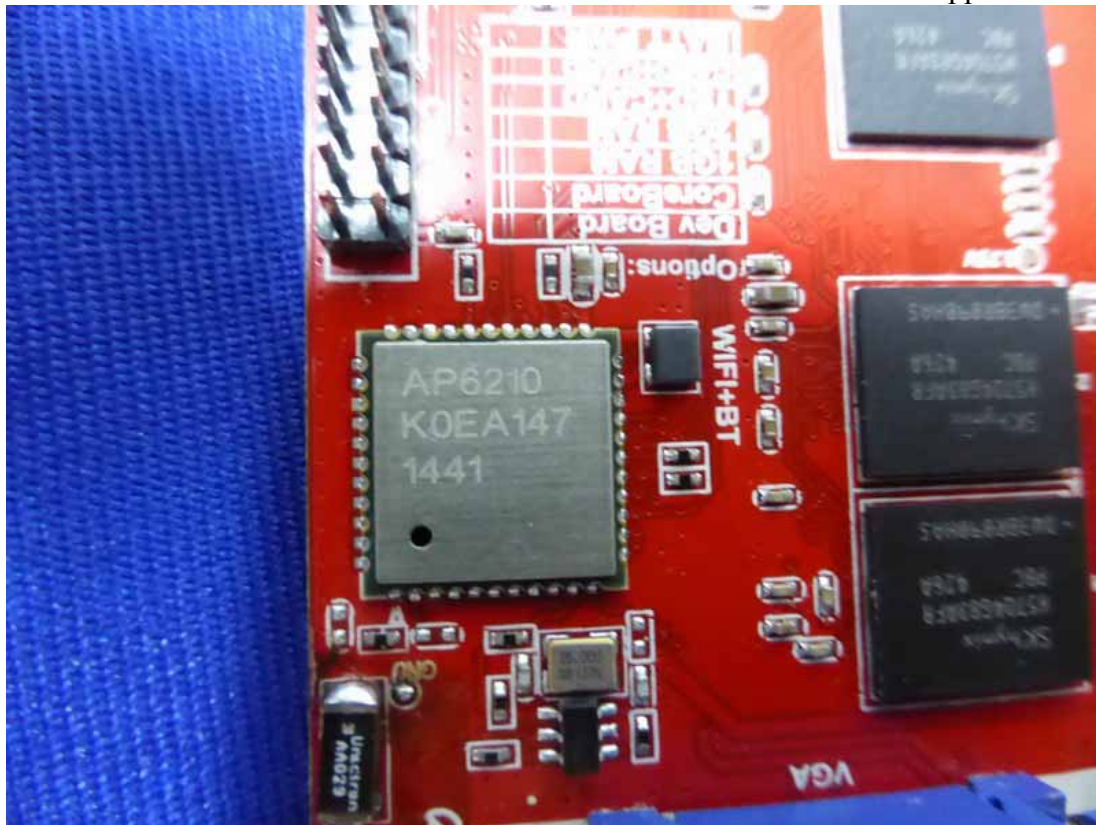


Figure 10
General Appearance of the EUT

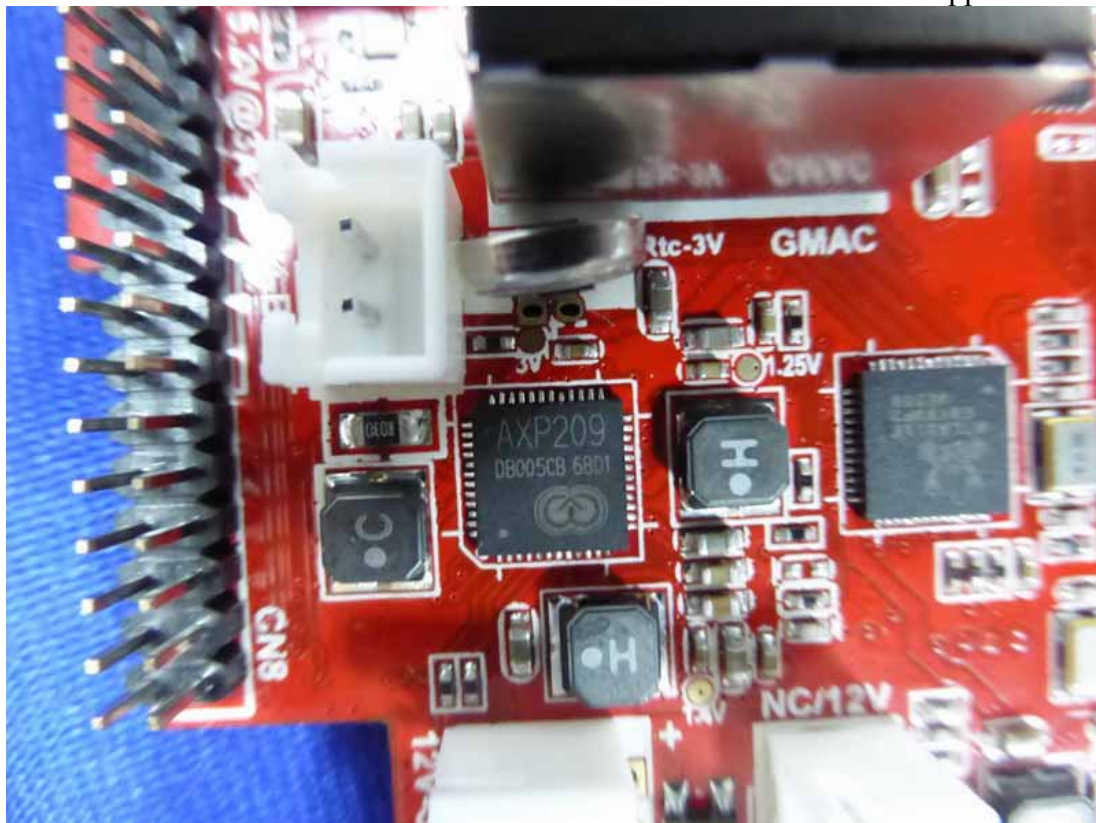


Figure 11
General Appearance of the EUT

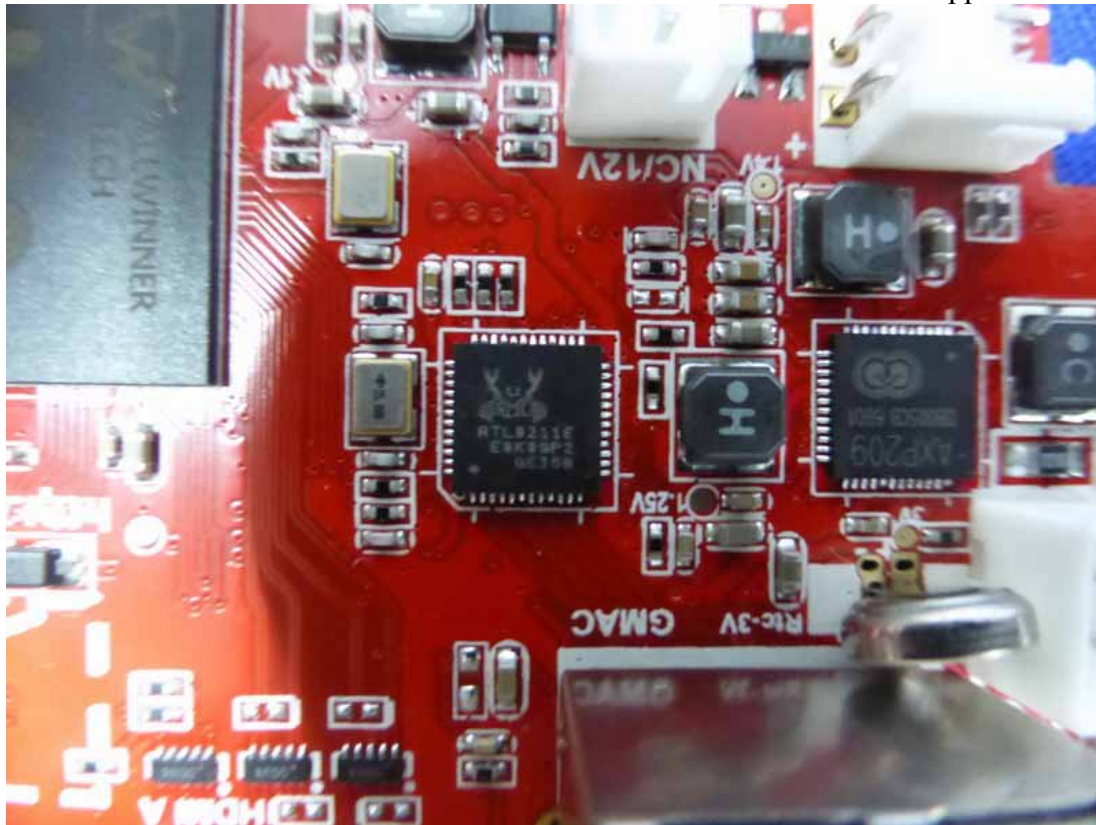


Figure 12
General Appearance of the EUT

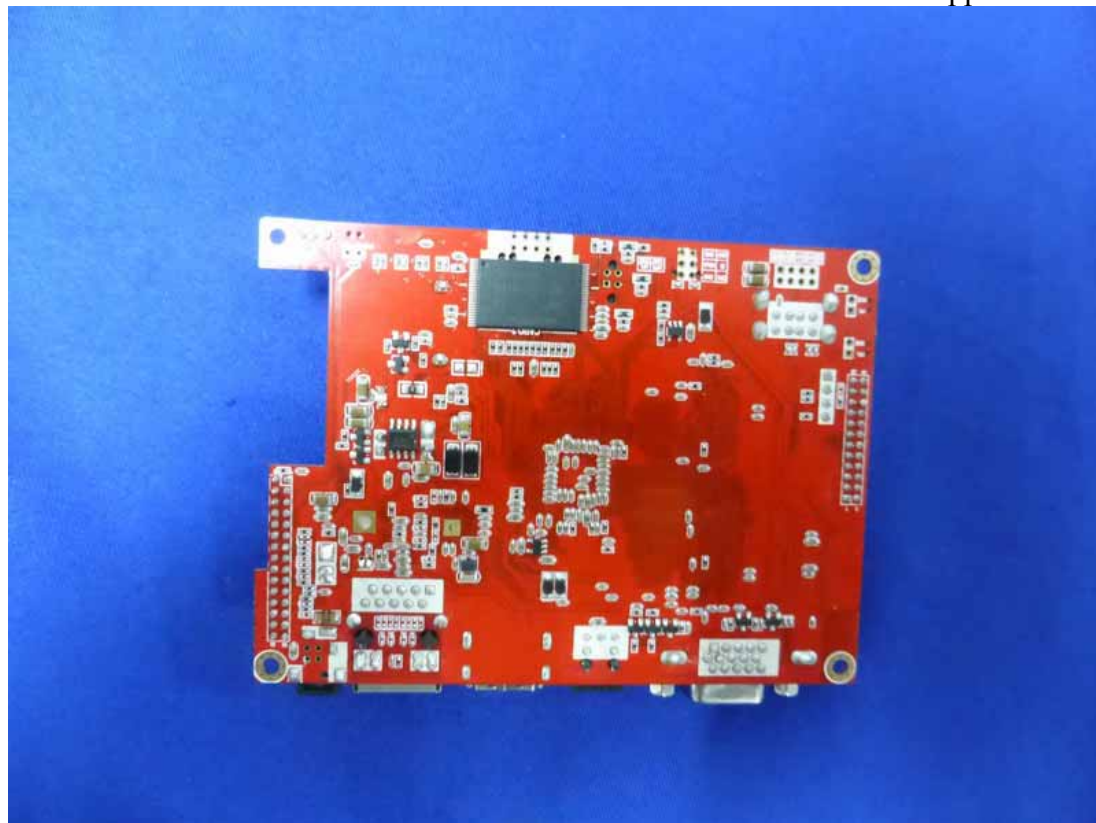


Figure 13
General Appearance of the EUT



Figure 14
USB Cable



Figure 15
USB Cable



Figure 16
USB Cable

