Shenzhen Certification Technology Service Co., Ltd.
2F, Building B, East Area of Nanchang Second Industrial Zone, Gushu 2nd Road, Bao'an District, Shenzhen 518126, P.R. China

TEST REPORT

FCC ID: 2AAV9-CPITP101

Applicant : Wanxin Image Corporation

Address :4/5F, 518 Zhonghua Rd. Sec.4, Xiangshan Dist., Hsinchu city, Taiwan

Equipment Under Test (EUT):

Name : Tablet pc

Model : CPITP101

In Accordance with: FCC PART 15, SUBPART C : 2012 (Section 15.247)

Report No : STI130827161-1

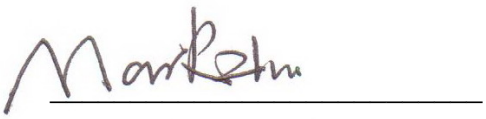
Date of Test : September 09-22, 2013

Date of Issue : September 23, 2013

Test Result: **PASS**

In the configuration tested, the EUT complied with the standards specified above

Authorized Signature



(Mark Zhu)

General Manager

The manufacture should ensure that all the products in series production are in conformity with the product sample detailed in this report. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of Shenzhen Certification Technology Service Co., Ltd. Or test done by Shenzhen Certification Technology Service Co., Ltd. Approvals in connection with, distribution or use of the product described in this report must be approved by Shenzhen Certification Technology Service Co., Ltd. Approvals in writing.

Contents

1. General Information

1.1. Description of Device (EUT)

Trade Name	:	N/A
EUT Model No.	:	Tablet pc CPITP101
Radio Technology	:	Bluetooth 3.0, Bluetooth 4.0 WIFI: IEEE 802..11 b,g,n/HT20,n/HT40
Note	:	This report is only test the Bluetooth 3.0, For other transmitters is tested and reported in another radio test report.
Type of Antenna	:	For Bluetooth: Integral Antenna, Maximum Gain is 2dBi For WIFI: Integral Antenna, Maximum Gain 2dBi
Operation Frequency	:	2402MHz-2480MHz for Bluetooth, 2412MHz-2462MHz for IEEE 802.11 b,g.n/HT20, 2422MHz-2452MHz for IEEE 802.11 n/HT40 for WIFI
Channel number	:	79 for BT 3.0 40 for BT 4.0 11 for 802.11b.g.n/HT20 7 for 802.11n/HT40
Modulation type	:	For Bluetooth 3.0: GFSK, π/4 DQPSK, 8- DPSK For Bluetooth 4.0: GFSK For WIFI: IEEE 802.11b: DSSS(CCK, DQPSK, DBPSK) IEEE 802.11g: OFDM(64QAM, 16QAM, QPSK, BPSK) IEEE 802.11n HT20: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11n HT40: OFDM (64QAM, 16QAM, QPSK, BPSK)
Power Supply	:	DC 3.7V Supply by battery DC 5V Supply by AC 120V/60Hz adapter
Applicant	:	Wanxin Image Corporation
Address	:	4/5F, 518 Zhonghua Rd. Sec.4, Xiangshan Dist., Hsinchu city, Taiwan
Manufacturer	:	Wanxin Image Corporation
Address	:	4/5F, 518 Zhonghua Rd. Sec.4, Xiangshan Dist., Hsinchu city, Taiwan

Accessories of device (EUT)

Accessories 1	:	N/A
Type	:	N/A

1.2. Test Lab information

Shenzhen Certification Technology Service Co., Ltd.
2F, Building B, East Area of Nanchang Second Industrial Zone,
Gushu 2nd Road, Bao'an District, Shenzhen 518126, P.R. China
FCC Registered No.:197647

2. Summary of test

2.1. Summary of test result

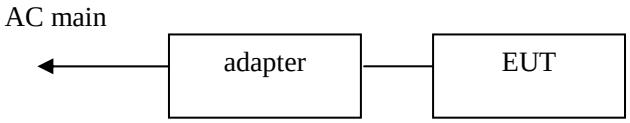
Description of Test Item	Standard	Results
Maximum Peak Output Power	FCC Part 15: 15.247(b)(1) ANSI C63.4 :2003	PASS
20dB Bandwidth	FCC Part 15: 15.215 ANSI C63.4 :2003	PASS
Carrier Frequency Separation	FCC Part 15: 15.247(a)(1) ANSI C63.4 :2003	PASS
Number Of Hopping Channel	FCC Part 15: 15.247(a)(1)(iii) ANSI C63.4 :2003	PASS
Dwell Time	FCC Part 15: 15.247(a)(1)(iii) ANSI C63.4 :2003	PASS
Radiated Emission	FCC Part 15: 15.209 FCC Part 15: 15.247(d) ANSI C63.4 :2003	PASS
Band Edge Compliance	FCC Part 15: 15.247(d) ANSI C63.4 :2003	PASS
Power Line Conducted Emissions	FCC Part 15: 15.207 ANSI C63.4 :2003	PASS
Antenna requirement	FCC Part 15: 15.203	PASS
Note: the test with DA00-705 test procedure.		

2.2. Assistant equipment used for test

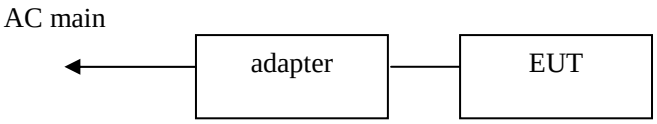
Description	:	AC ADAPTER
Manufacturer	:	N/A
Model No.	:	JY-05200

2.3. Block Diagram

1, For radiated emissions test: EUT was placed on a turn table, which is 0.8 meter high above ground. EUT was be set into BT test mode by Bluesuite software before test.



2, For Power Line Conducted Emissions Test: EUT was connected to power adapter by 1m line



2.4. Test mode

The test software "Bluesuite" was used to control EUT work in Continuous TX mode, and select test channel, wireless mode

Tested mode, channel, and data rate information		
Mode	Channel	Frequency (MHz)
BDR:GFSK	Low :CH1	2402
	Middle: CH40	2441
	High: CH79	2480
EDR:π/4 QPSK	Low :CH1	2402
	Middle: CH40	2441
	High: CH79	2480
EDR:8-DPSK	Low :CH1	2402
	Middle: CH40	2441
	High: CH79	2480

Note: For π/4 QPSK its same modulation type with 8-DPSK, and based exploratory test, there is no significant difference of that two types test result, so except output power, all other items final test were only performed with 8-DPSK and GFSK.

2.5. Test Conditions

Temperature range	21-25℃
Humidity range	40-75%
Pressure range	86-106kPa

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

Item	MU	Remark
Uncertainty for Power point Conducted Emissions Test	2.42dB	
Uncertainty for Radiation Emission test in 3m chamber (below 30MHz)	2.13 dB	Polarize: V
	2.57dB	Polarize: H
Uncertainty for Radiation Emission test in 3m chamber (30MHz to 1GHz)	3.54dB	Polarize: V
	4.1dB	Polarize: H
Uncertainty for Radiation Emission test in 3m chamber (1GHz to 25GHz)	2.08dB	Polarize: H
	2.56dB	Polarize: V
Uncertainty for radio frequency	1×10-9	
Uncertainty for conducted RF Power	0.65dB	

Uncertainty for temperature	0.2℃	
Uncertainty for humidity	1%	
Uncertainty for DC and low frequency voltages	0.06%	

2.7. Test Equipment

Equipment	Manufacture	Model No.	Serial No.	Last cal.	Cal Interval
3m Semi-Anechoic	ETS-LINDGREN	N/A	SEL0017	Nov. 16, 12	1Year
Spectrum analyzer	Agilent	E4407B	MY49510055	Oct. 31, 12	1Year
Receiver	R&S	ESCI	101165	Oct. 31, 12	1Year
Receiver	R&S	ESCI	101202	Oct. 31, 12	1Year
Bilog Antenna	SCHWARZBECK	VULB 9168	9168-438	Feb. 20, 13	1Year
Horn Antenna	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D(1201)	Feb. 20, 13	1Year
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA 9170 D(1432)	Feb. 20, 13	1Year
Active Loop Antenna	Beijing Daze	ZN30900A	SEL0097	Feb.20, 13	1Year
L.I.S.N.	SCHWARZBECK	NSLK8126	8126466	Oct. 31, 12	1Year
Cable	Resenberger	N/A	No.1	Oct. 31, 12	1Year
Cable	SCHWARZBECK	N/A	No.2	Oct. 31, 12	1Year
Cable	SCHWARZBECK	N/A	No.3	Oct. 31, 12	1Year
Power Meter	Anritsu	ML2487A	6K00001491	Oct. 31, 12	1Year
Power sensor	Anritsu	ML2491A	32516	Oct. 31, 12	1Year
Pre-amplifier	SCHWARZBECK	BBV9743	9743-019	Oct. 31, 12	1Year
Pre-amplifier	Quietek	AP-180C	CHM-0602012	Oct. 31, 12	1Year

3. Maximum Peak Output power

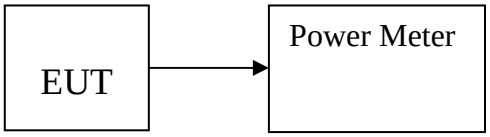
3.1. Limit

Please refer section15.247.
For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725-5850 MHz band: 1 watt. For all other frequency hopping systems in the 2400-2483.5 MHz band: 0.125 watts, the e.i.r.p shall not exceed 4W

3.2. Test Procedure

The transmitter output is connected to the RF Power Meter. The RF Power Meter is set to the peak power detection.

3.3. Test Setup



3.4. Test Result

EUT: Tablet pc		M/N: CPITP101				
Test date: 2013-09-13		Test site: RF site		Tested by: Anna Fan		
Mode	Freq (MHz)	Reading Power (dBm)	Factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)
GFSK	2402	1.99	0.5	2.49	21	18.51
	2441	1.97	0.5	2.47	21	18.53
	2480	1.95	0.5	2.45	21	18.55
π/4 QPSK	2402	1.03	0.5	1.53	21	19.47
	2441	1.05	0.5	1.55	21	19.45
	2480	1.01	0.5	1.51	21	19.49
8-DPSK	2402	1.46	0.5	1.96	21	19.04
	2441	1.40	0.5	1.90	21	19.10
	2480	1.43	0.5	1.93	21	19.07
Conclusion: PASS						

4. 20dB bandwidth

4.1. Limit

Intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§ 15.217 through 15.257 and in Subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated.

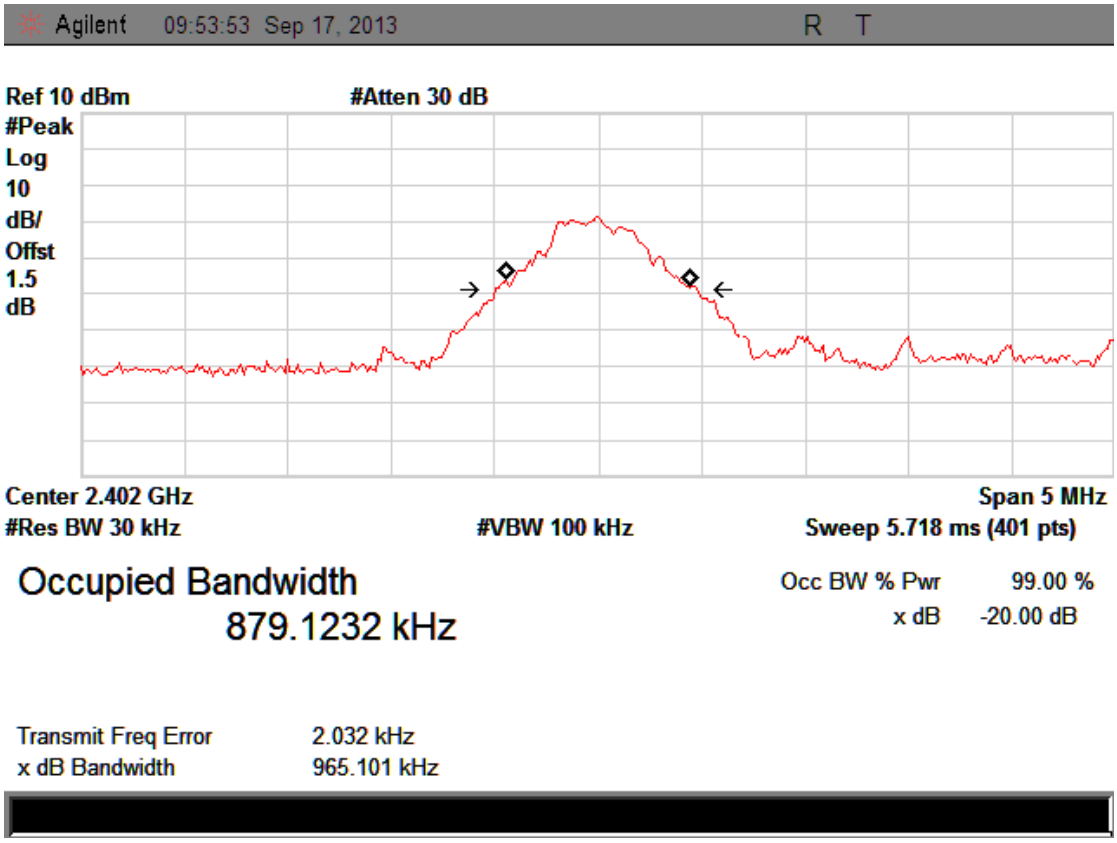
4.2. Test Procedure

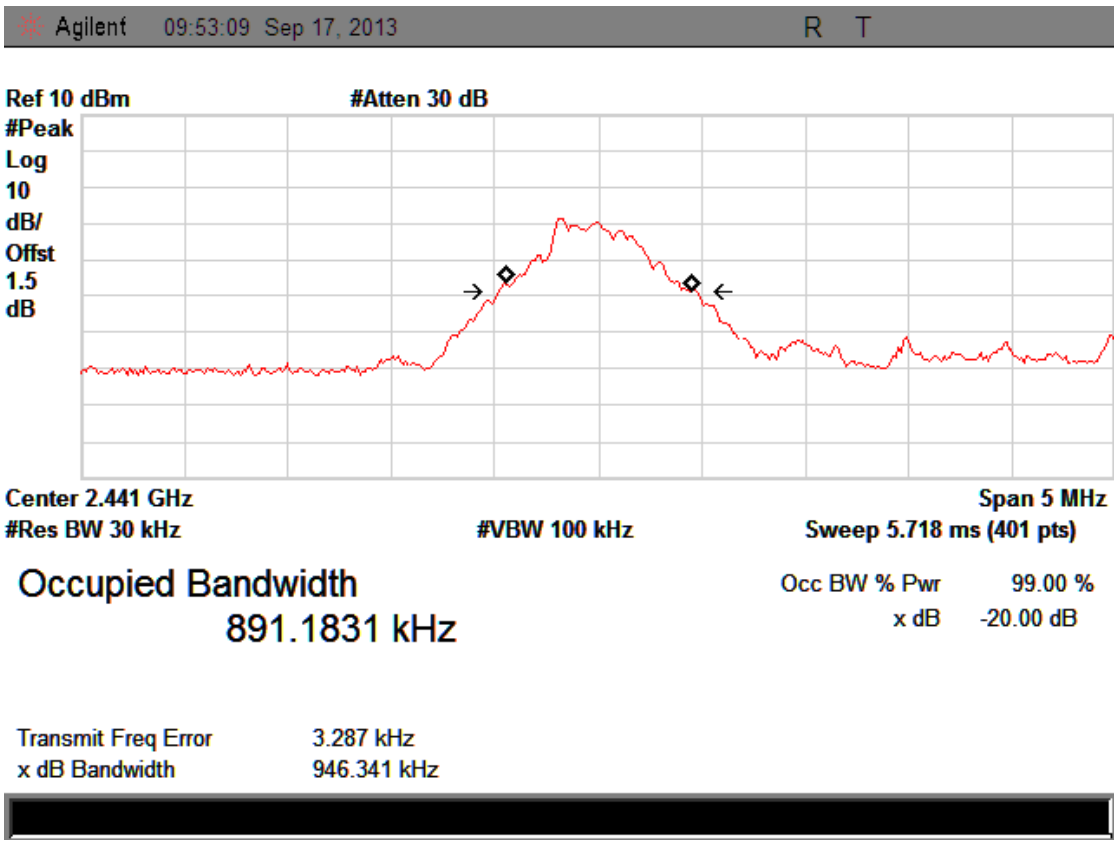
The transmitter output was coupled to a spectrum analyzer via a antenna. The bandwidth of the fundamental frequency was measured by spectrum analyzer with 30kHz RBW and 100kHz VBW. The 20dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 20dB.

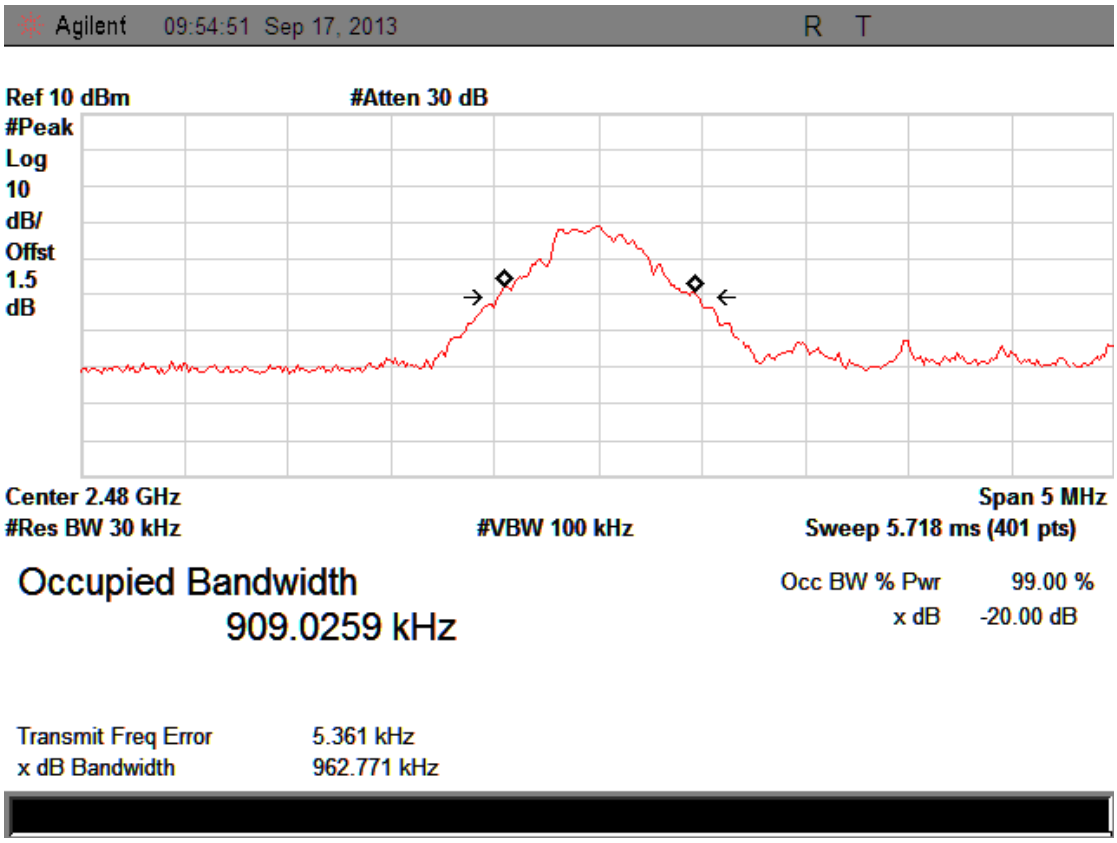
4.3. Test Result

EUT: Tablet pc		M/N: CPITP101		
Test date: 2013-09-17		Test site: RF site	Tested by: Anna Fan	
Mode	Freq (MHz)	20dB Bandwidth (MHz)	Limit (kHz)	Conclusion
GFSK	2402	0.965	/	PASS
	2441	0.946	/	PASS
	2480	0.963	/	PASS
8-DPSK	2402	1.288	/	PASS
	2441	1.293	/	PASS
	2480	1.215	/	PASS

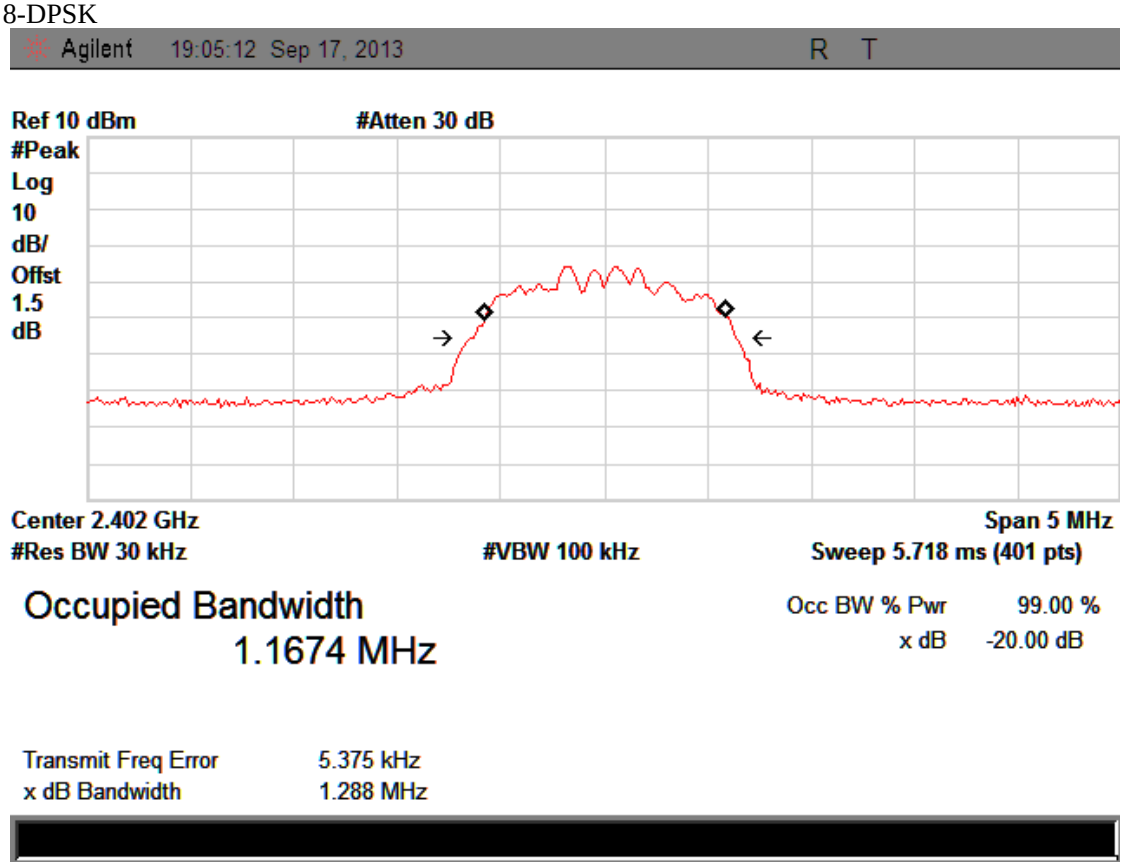
Orginal Test data For 20dB bandwidth
GFSK

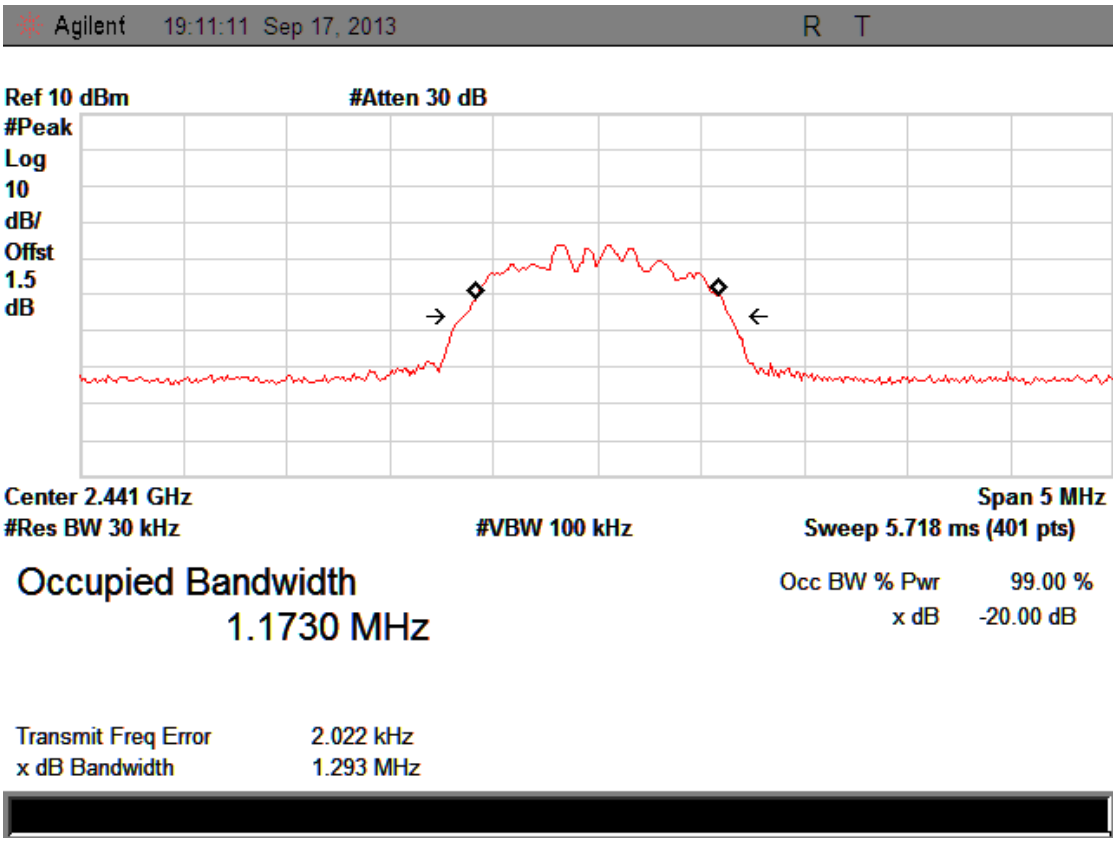


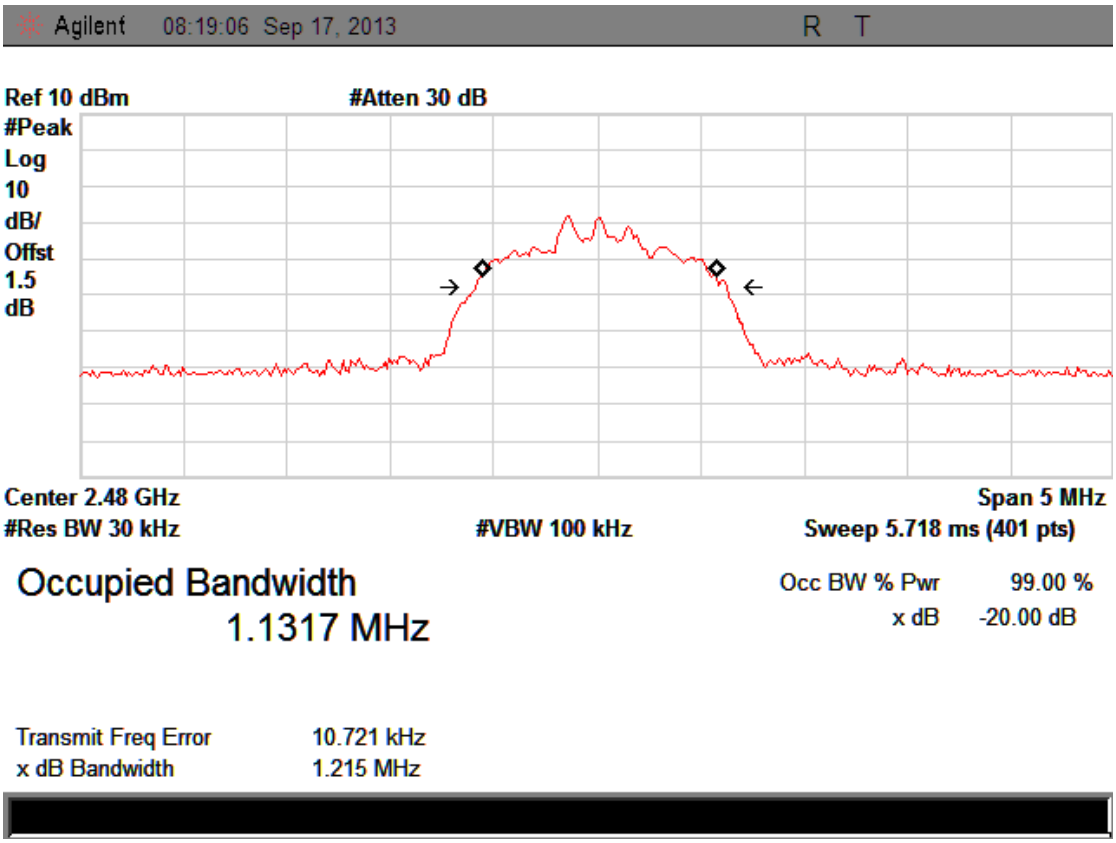



Agilent 09:54:51 Sep 17, 2013
R T
Ref 10 dBm
#Atten 30 dB
#Peak
Log
10
dB/
Offst
1.5
dB
Center 2.48 GHz
#Res BW 30 kHz
#VBW 100 kHz
Span 5 MHz
Sweep 5.718 ms (401 pts)
Occupied Bandwidth
909.0259 kHz
Occ BW % Pwr 99.00 %
x dB -20.00 dB
Transmit Freq Error 5.361 kHz
x dB Bandwidth 962.771 kHz

8-DPSK


Agilent 19:05:12 Sep 17, 2013
R T
Ref 10 dBm
#Atten 30 dB
#Peak
Log
10
dB/
Offst
1.5
dB
Center 2.402 GHz
#Res BW 30 kHz
#VBW 100 kHz
Span 5 MHz
Sweep 5.718 ms (401 pts)
Occupied Bandwidth
1.1674 MHz
Occ BW % Pwr 99.00 %
x dB -20.00 dB
Transmit Freq Error 5.375 kHz
x dB Bandwidth 1.288 MHz


Agilent 19:11:11 Sep 17, 2013
R T
Ref 10 dBm
#Atten 30 dB
#Peak
Log
10
dB/
Offst
1.5
dB
Center 2.441 GHz
#Res BW 30 kHz
#VBW 100 kHz
Span 5 MHz
Sweep 5.718 ms (401 pts)
Occupied Bandwidth
1.1730 MHz
Occ BW % Pwr 99.00 %
x dB -20.00 dB
Transmit Freq Error 2.022 kHz
x dB Bandwidth 1.293 MHz


Agilent 08:19:06 Sep 17, 2013
R T
Ref 10 dBm
#Atten 30 dB
#Peak
Log
10
dB/
Offst
1.5
dB
Center 2.48 GHz
#Res BW 30 kHz
#VBW 100 kHz
Span 5 MHz
Sweep 5.718 ms (401 pts)
Occupied Bandwidth
1.1317 MHz
Occ BW % Pwr 99.00 %
x dB -20.00 dB
Transmit Freq Error 10.721 kHz
x dB Bandwidth 1.215 MHz

5. Carrier Frequency Separation

5.1. Limit

Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, 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, provided the systems operate with an output power no greater than 125 mW

5.2. Test Procedure

The transmitter output was coupled to a spectrum analyzer via a antenna. The carrier frequency was measured by spectrum analyzer with 30kHz RBW and 100kHz VBW.

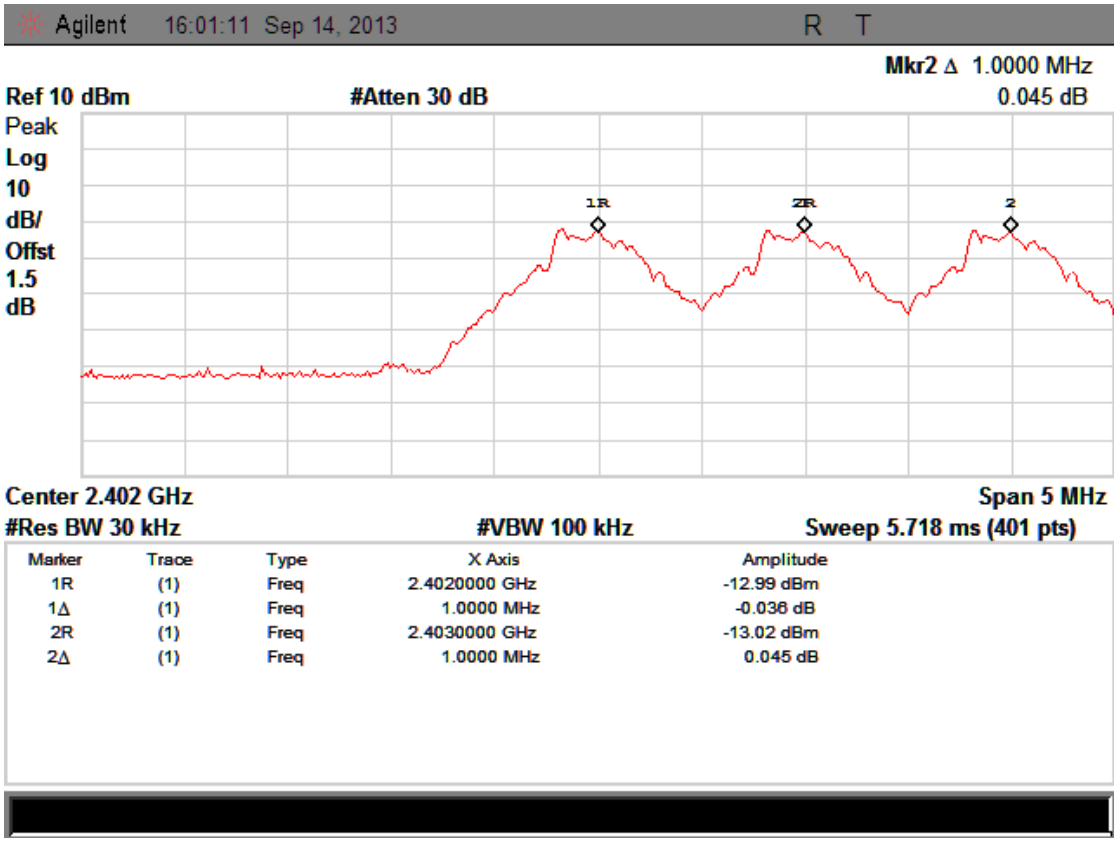
5.3. Test Result

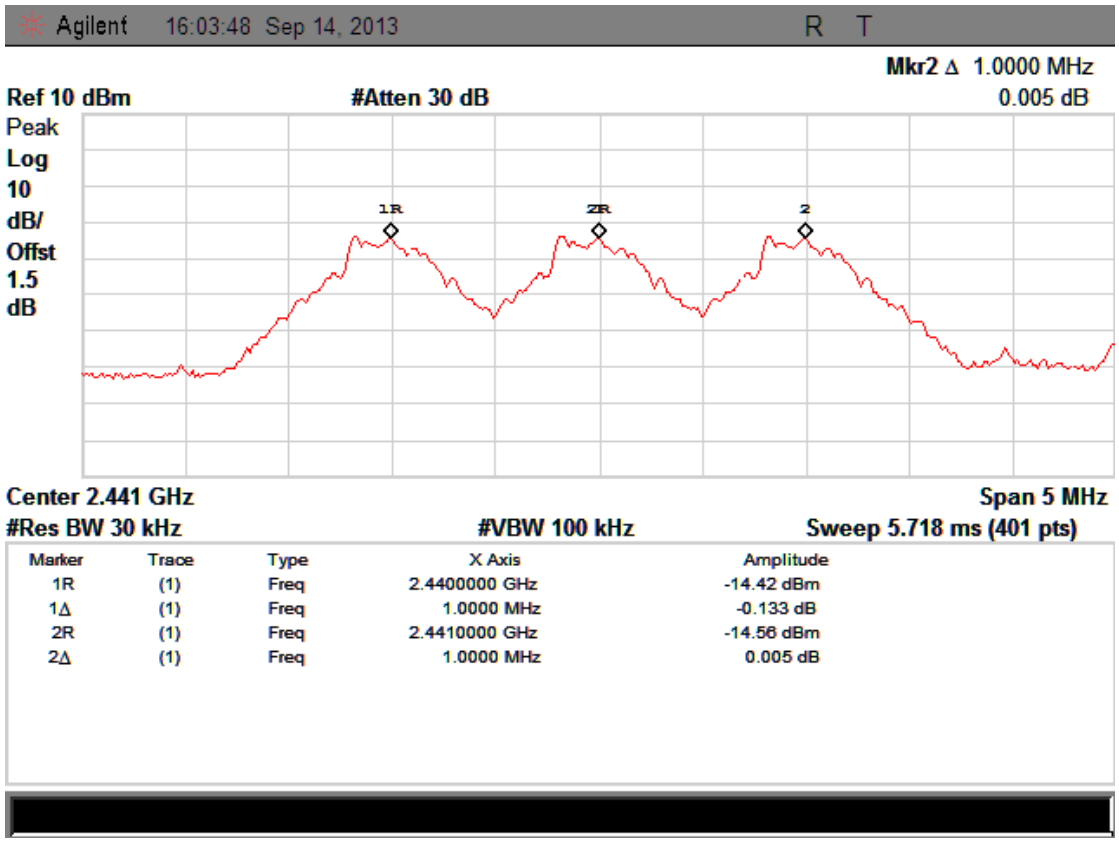
EUT: Tablet pc	M/N: CPITP101		
Test date: 2013-09-14		Test site: RF site	Tested by: Anna Fan
Mode	Channel separation (MHz)	Limit (MHz) 20dB Bandwidth (MHz)	Conclusion
GFSK	1.0	0.965	PASS

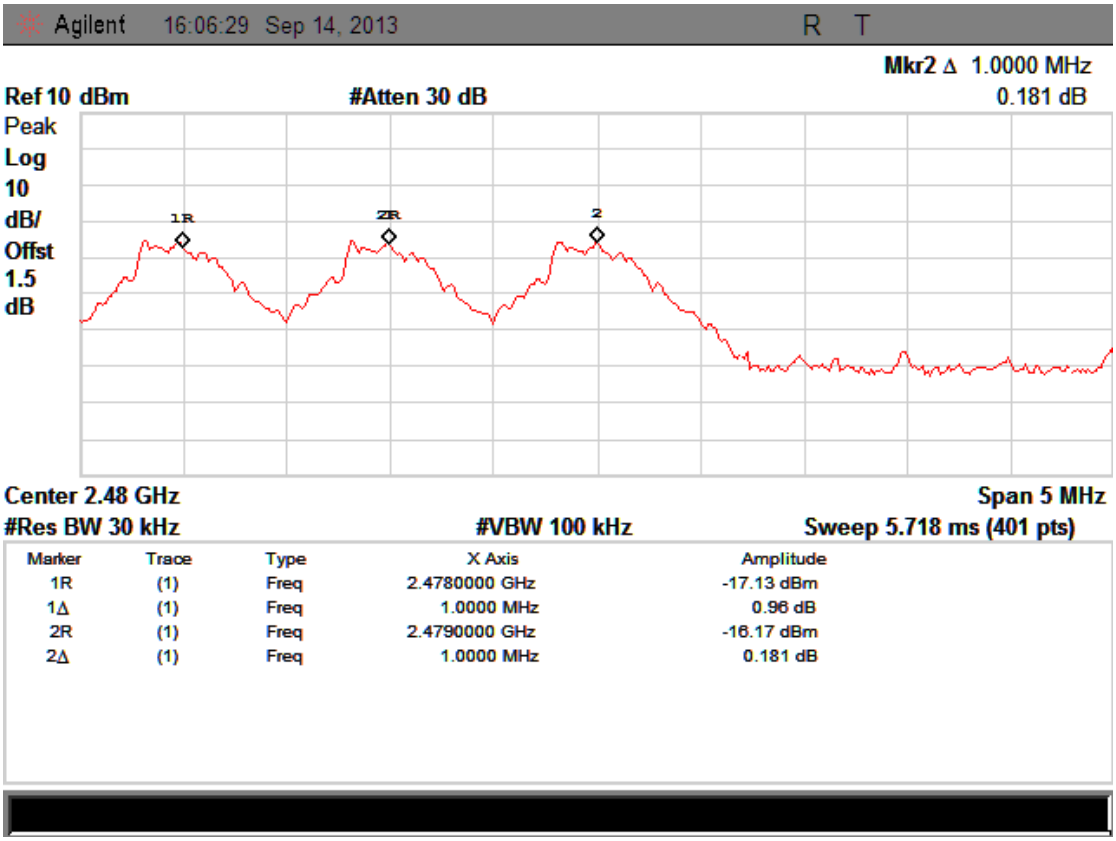
EUT: Tablet pc	M/N: CPITP101		
Test date: 2013-09-14		Test site: RF site	Tested by: Anna Fan
Mode	Channel separation (MHz)	Limit (MHz) 2/3 20dB bandwidth	Conclusion
8-DPSK	1.0	0.862	PASS

Orginal test data for channel separation

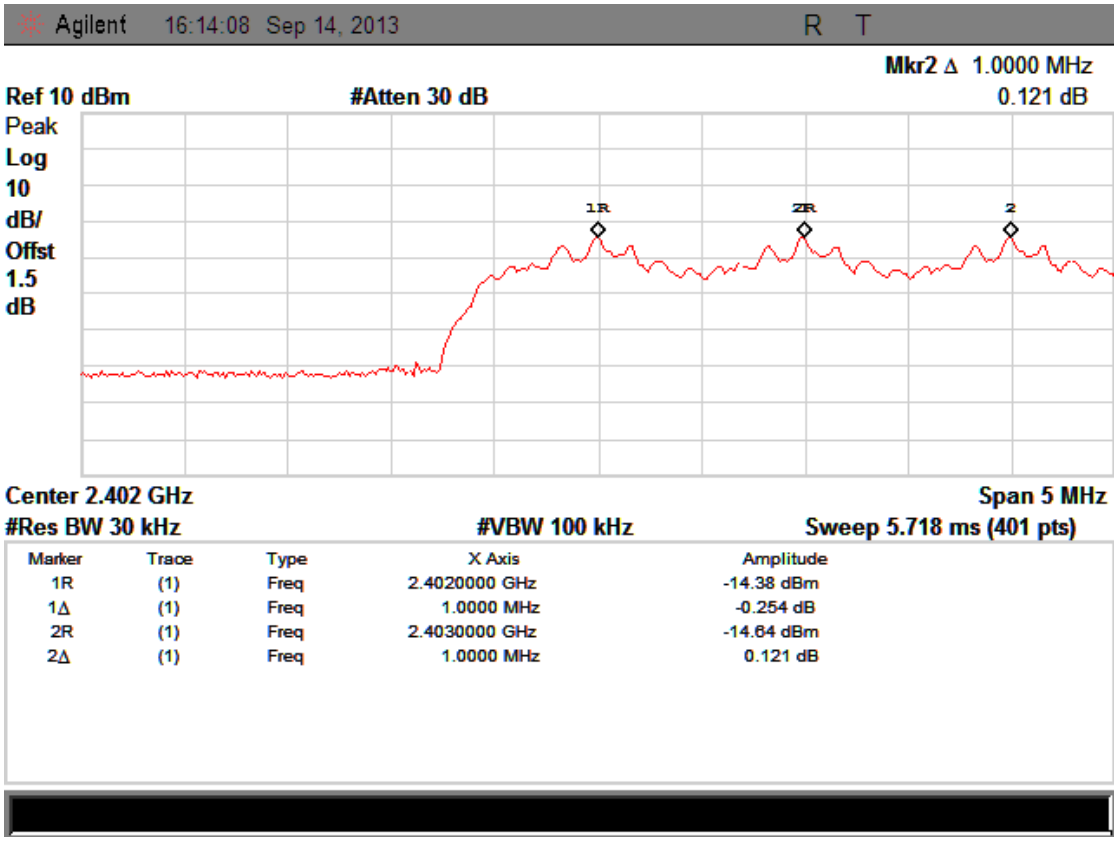
GFSK

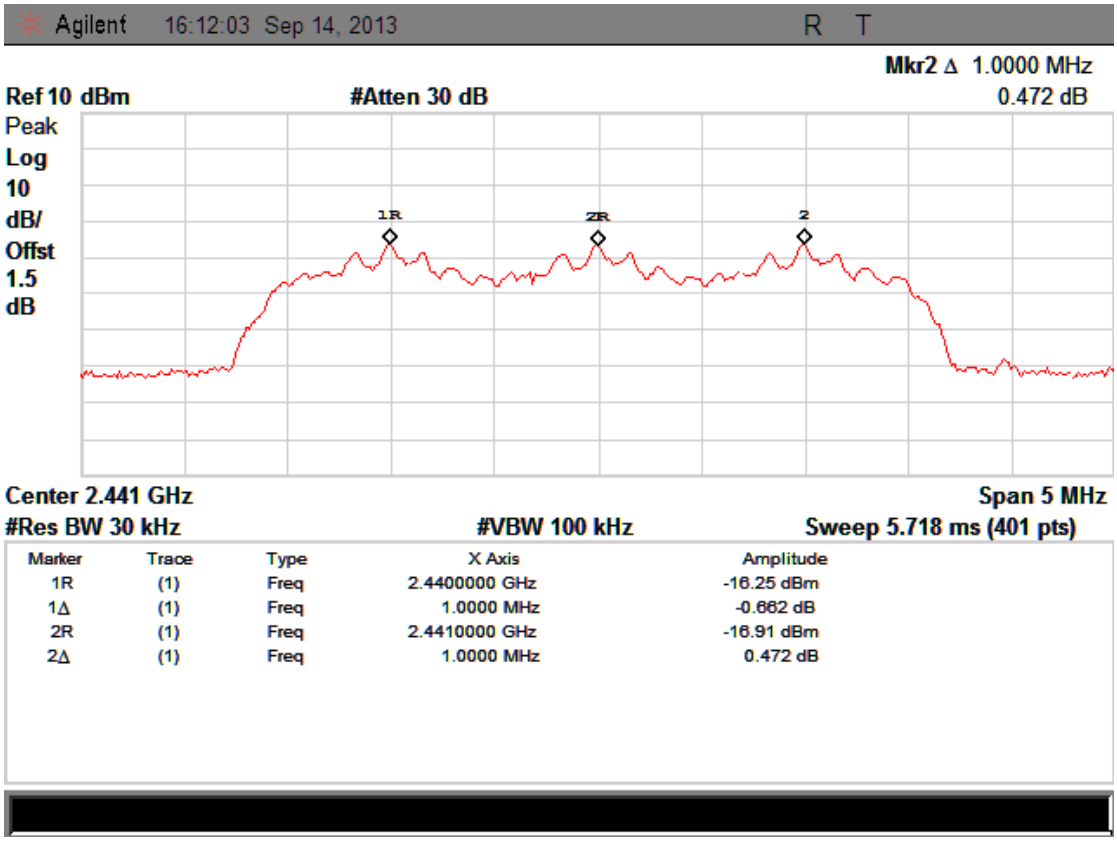


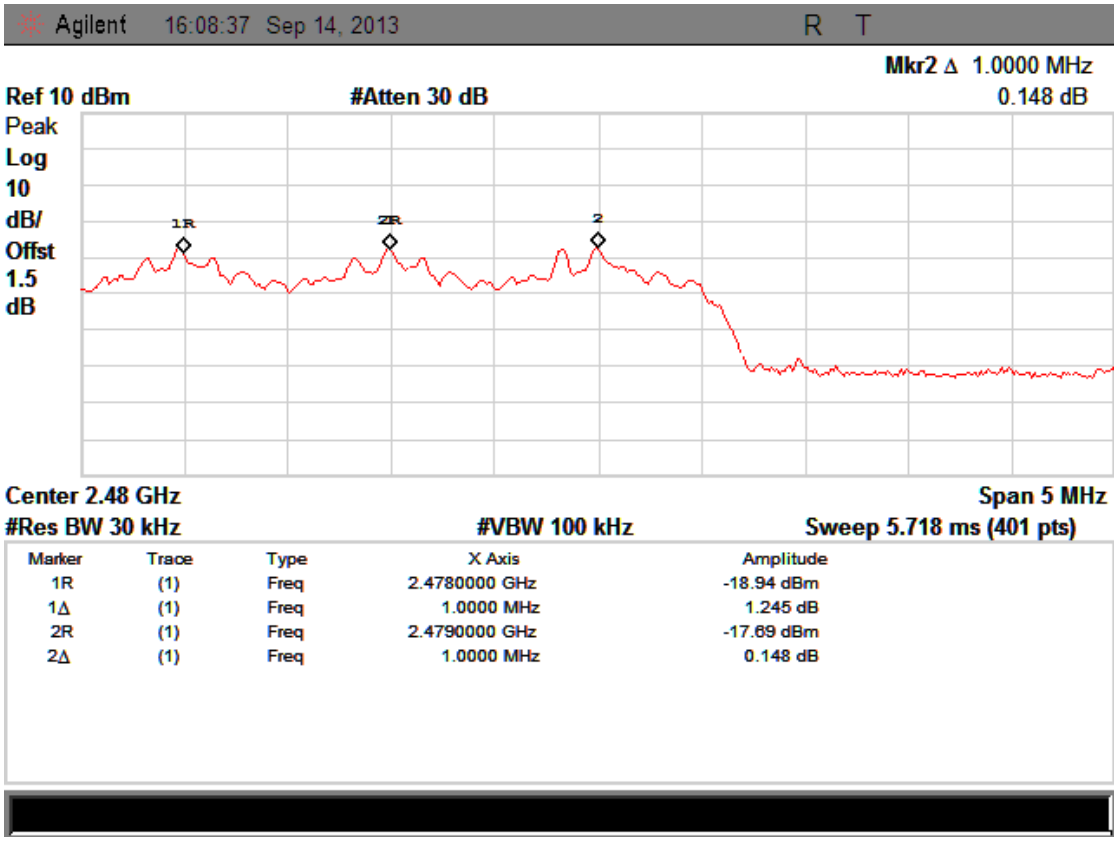



Agilent 16:06:29 Sep 14, 2013
R T
Mkr2 Δ 1.0000 MHz
Ref 10 dBm
#Atten 30 dB
0.181 dB
Peak
Log
10
dB/
Offst
1.5
dB
1R
2R
2
Center 2.48 GHz
Span 5 MHz
#Res BW 30 kHz
#VBW 100 kHz
Sweep 5.718 ms (401 pts)
Marker Trace Type X Axis Amplitude
1R (1) Freq 2.4780000 GHz -17.13 dBm
1Δ (1) Freq 1.0000 MHz 0.96 dB
2R (1) Freq 2.4790000 GHz -16.17 dBm
2Δ (1) Freq 1.0000 MHz 0.181 dB

8-DPSK


Agilent 16:14:08 Sep 14, 2013
R T
Mkr2 Δ 1.0000 MHz
Ref 10 dBm
#Atten 30 dB
0.121 dB
Peak
Log
10
dB/
Offst
1.5
dB
1R
2R
2
Center 2.402 GHz
Span 5 MHz
#Res BW 30 kHz
#VBW 100 kHz
Sweep 5.718 ms (401 pts)
Marker Trace Type X Axis Amplitude
1R (1) Freq 2.4020000 GHz -14.38 dBm
1Δ (1) Freq 1.0000 MHz -0.254 dB
2R (1) Freq 2.4030000 GHz -14.64 dBm
2Δ (1) Freq 1.0000 MHz 0.121 dB


Agilent 16:12:03 Sep 14, 2013
R T
Mkr2 Δ 1.0000 MHz
Ref 10 dBm
#Atten 30 dB
0.472 dB
Peak
Log
10
dB/
Offst
1.5
dB
1R
2R
2
Center 2.441 GHz
Span 5 MHz
#Res BW 30 kHz
#VBW 100 kHz
Sweep 5.718 ms (401 pts)
Marker Trace Type X Axis Amplitude
1R (1) Freq 2.4400000 GHz -16.25 dBm
1Δ (1) Freq 1.0000 MHz -0.662 dB
2R (1) Freq 2.4410000 GHz -16.91 dBm
2Δ (1) Freq 1.0000 MHz 0.472 dB


Agilent 16:08:37 Sep 14, 2013
R T
Mkr2 Δ 1.0000 MHz
Ref 10 dBm
#Atten 30 dB
0.148 dB
Peak
Log
10
dB/
Offst
1.5
dB
1R
2R
2
Center 2.48 GHz
Span 5 MHz
#Res BW 30 kHz
#VBW 100 kHz
Sweep 5.718 ms (401 pts)
Marker Trace Type X Axis Amplitude
1R (1) Freq 2.4780000 GHz -18.94 dBm
1Δ (1) Freq 1.0000 MHz 1.245 dB
2R (1) Freq 2.4790000 GHz -17.69 dBm
2Δ (1) Freq 1.0000 MHz 0.148 dB

6. Number Of Hopping Channel

6.1. Limit

Frequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels

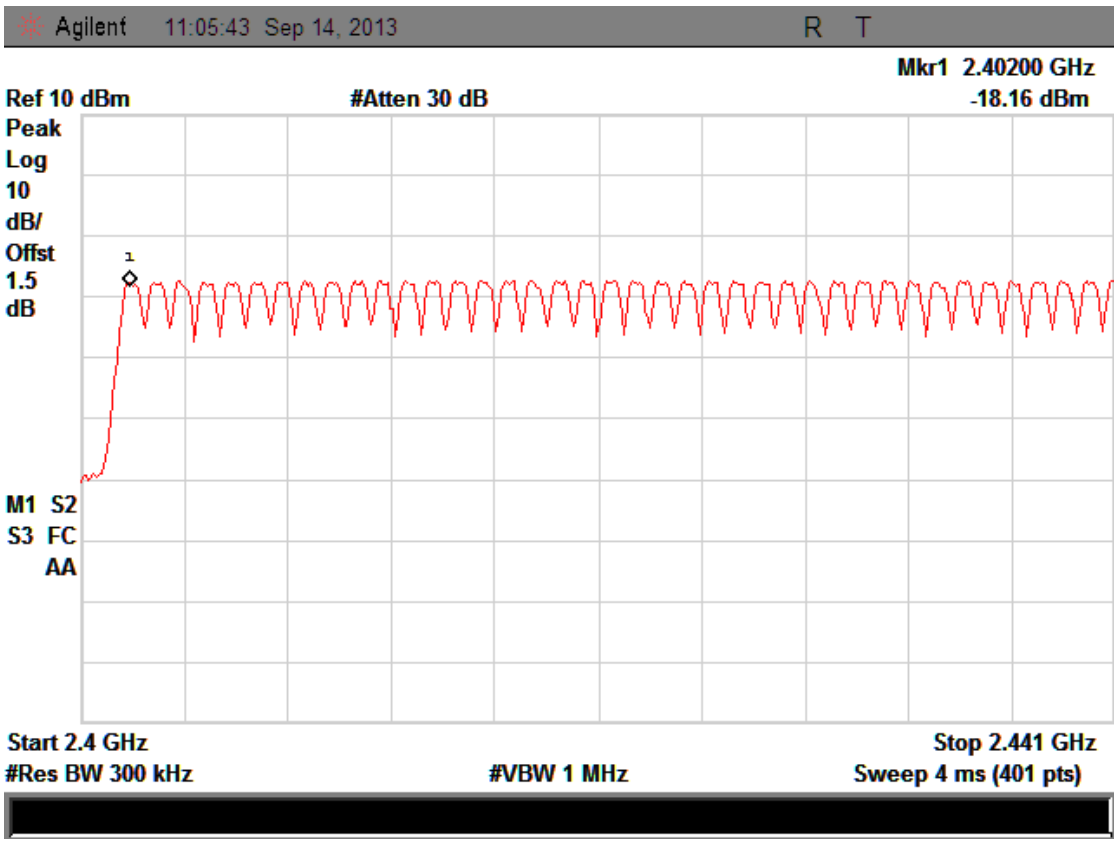
6.2. Test Procedure

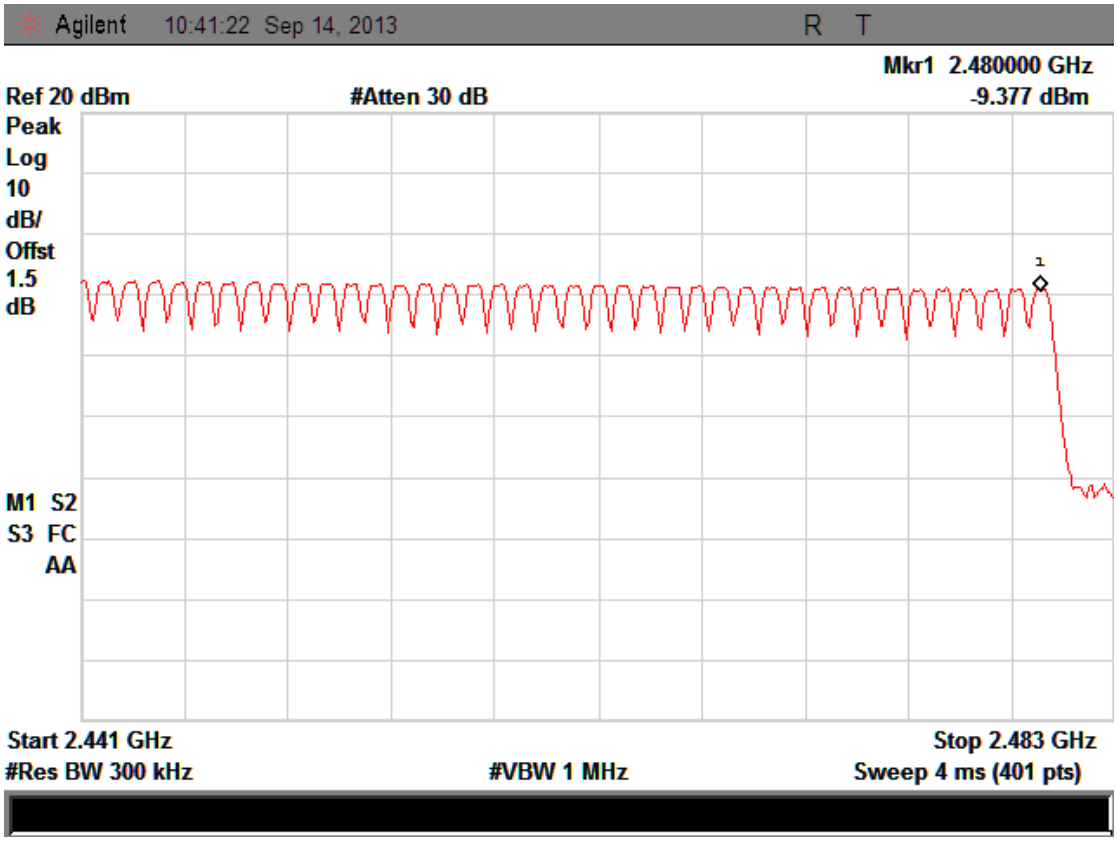
The transmitter output was coupled to a spectrum analyzer via a antenna. The number of hopping channel was measured by spectrum analyzer with 300kHz RBW and 1MHz VBW.

6.3. Test Result

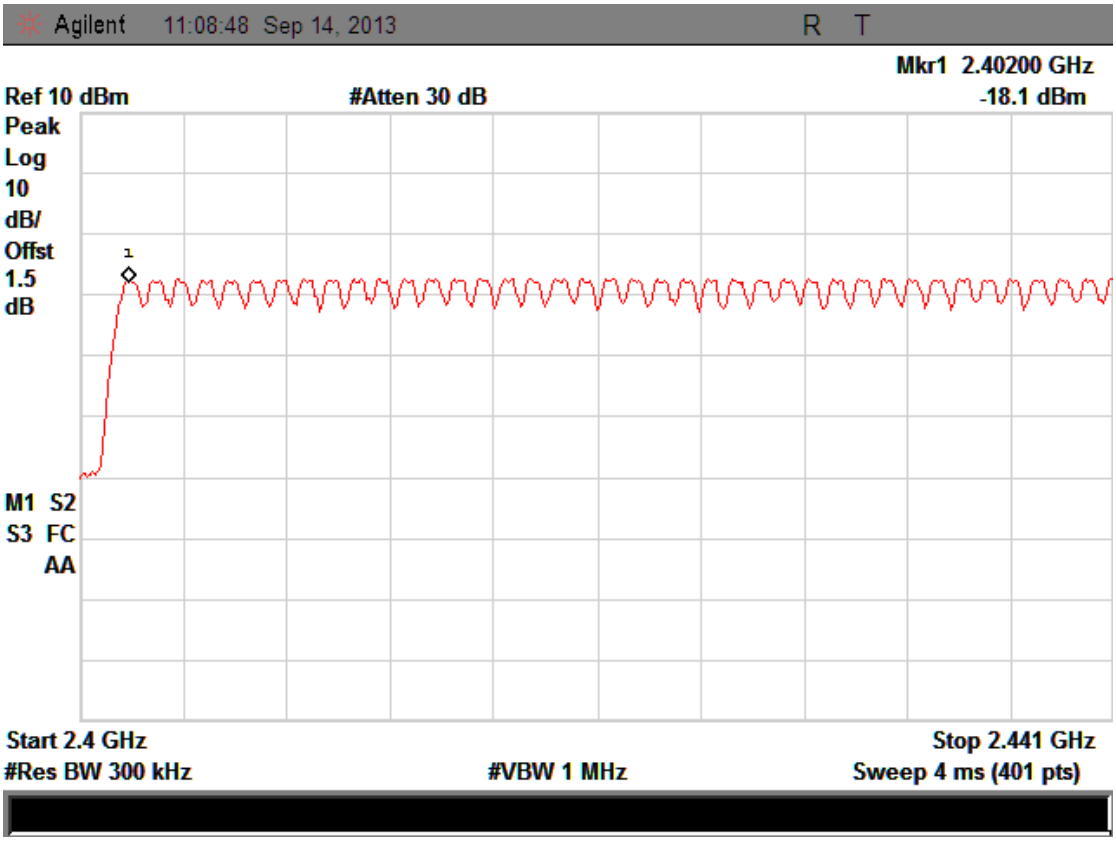
EUT: Tablet pc		M/N: CPITP101	
Test date: 2013-09-14	Test site: RF site	Tested by: Anna Fan	
Mode	Number of hopping channel	Limit	Conclusion
GFSK	79	>15	PASS
8-DPSK	79	>15	PASS

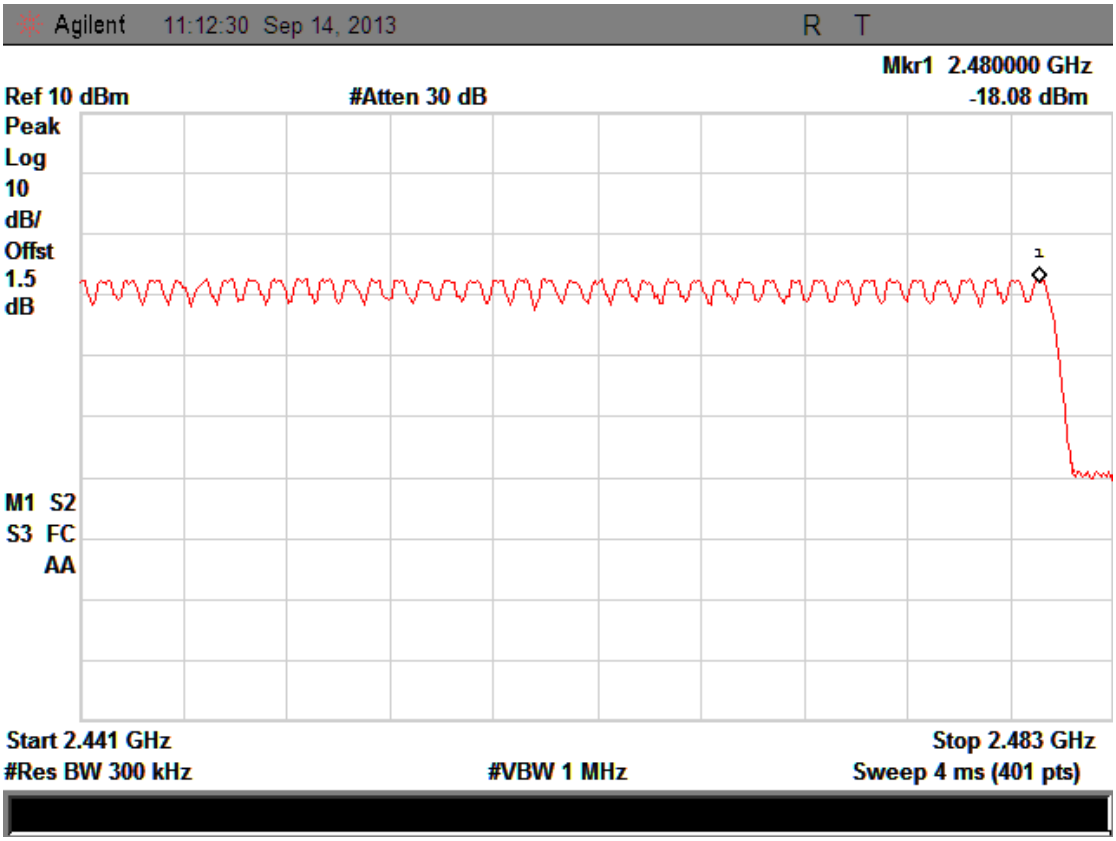
GFSK


Agilent 11:05:43 Sep 14, 2013
R T
Mkr1 2.40200 GHz
Ref 10 dBm
#Atten 30 dB
-18.16 dBm
Peak
Log
10
dB/
Offst
1.5
dB
1
M1 S2
S3 FC
AA
Start 2.4 GHz
Stop 2.441 GHz
#Res BW 300 kHz
#VBW 1 MHz
Sweep 4 ms (401 pts)


Agilent 10:41:22 Sep 14, 2013
R T
Mkr1 2.480000 GHz
Ref 20 dBm
#Atten 30 dB
-9.377 dBm
Peak
Log
10
dB/
Offst
1.5
dB
1
M1 S2
S3 FC
AA
Start 2.441 GHz
Stop 2.483 GHz
#Res BW 300 kHz
#VBW 1 MHz
Sweep 4 ms (401 pts)

8-DPSK


Agilent 11:08:48 Sep 14, 2013
R T
Mkr1 2.40200 GHz
Ref 10 dBm
#Atten 30 dB
-18.1 dBm
Peak
Log
10
dB/
Offst
1.5
dB
1
M1 S2
S3 FC
AA
Start 2.4 GHz
Stop 2.441 GHz
#Res BW 300 kHz
#VBW 1 MHz
Sweep 4 ms (401 pts)


Agilent 11:12:30 Sep 14, 2013
R T
Mkr1 2.480000 GHz
Ref 10 dBm
#Atten 30 dB
-18.08 dBm
Peak
Log
10
dB/
Offst
1.5
dB
1
M1 S2
S3 FC
AA
Start 2.441 GHz
Stop 2.483 GHz
#Res BW 300 kHz
#VBW 1 MHz
Sweep 4 ms (401 pts)

7. Dwell Time

7.1. Test limit

Please refer section15.247

According to §15.247(a)(1)(iii), Frequency hopping systems operating in the 2400MHz-2483.5 MHz. The average time of occupancy on any frequency shall not greater than 0.4 s within period of 0.4 sec- onds multiplied by the number of hopping channel employed.

7.2. Test Procedure

7.2.1. Place the EUT on the table and set it in transmitting mode.

7.2.2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.

7.2.3. Set center frequency of spectrum analyzer = operating frequency.

7.2.4. Set the spectrum analyzer as RBW, VBW=1MHz, Span = 0Hz, Sweep = auto.

7.2.5. Repeat above procedures until all frequency measured were complete.

7.3. Test Results

PASS.

A period time = 0.4 (s) * 79 = 31.6(s)

CH Low: DH1 time slot =0.400 (ms) * (1600/(1*79)) * 31.6 = 256 (ms)

DH3 time slot = 1.662 (ms) * (1600/(3*79)) * 31.6 = 354.56 (ms)

DH5 time slot = 2.900 (ms) * (1600/(5*79)) * 31.6 = 371.2 (ms)

3-DH1 time slot = 0.400 (ms) * (1600/(1*79)) * 31.6 = 256 (ms)

3-DH3 time slot = 1.650 (ms) * (1600/(3*79)) * 31.6 = 352 (ms)

3-DH5 time slot =2.913 (ms) * (1600/(5*79)) * 31.6 = 372.86 (ms)

CH Mid: DH1 time slot = 0.400 (ms) * (1600/(1*79)) * 31.6 = 256 (ms)

DH3 time slot = 1.663 (ms) * (1600/(3*79)) * 31.6 = 354.77 (ms)

DH5 time slot = 2.900 (ms) * (1600/(5*79)) * 31.6 = 371.2 (ms)

3-DH1 time slot = 0.400(ms) * (1600/(1*79)) *31.6= 256 (ms)

3-DH3 time slot = 1.650 (ms) * (1600/(3*79)) * 31.6 = 352 (ms)

3-DH5 time slot = 2.900 (ms) * (1600/(5*79)) * 31.6 = 371.2 (ms)

CH High: DH1 time slot = 0.3875 (ms) * (1600/(1*79)) * 31.6 = 248 (ms)

DH3 time slot =1.650 (ms) * (1600/(3*79)) * 31.6 = 352 (ms)

DH5 time slot = 2.900 (ms) * (1600/(5*79)) * 31.6 = 371.2 (ms)

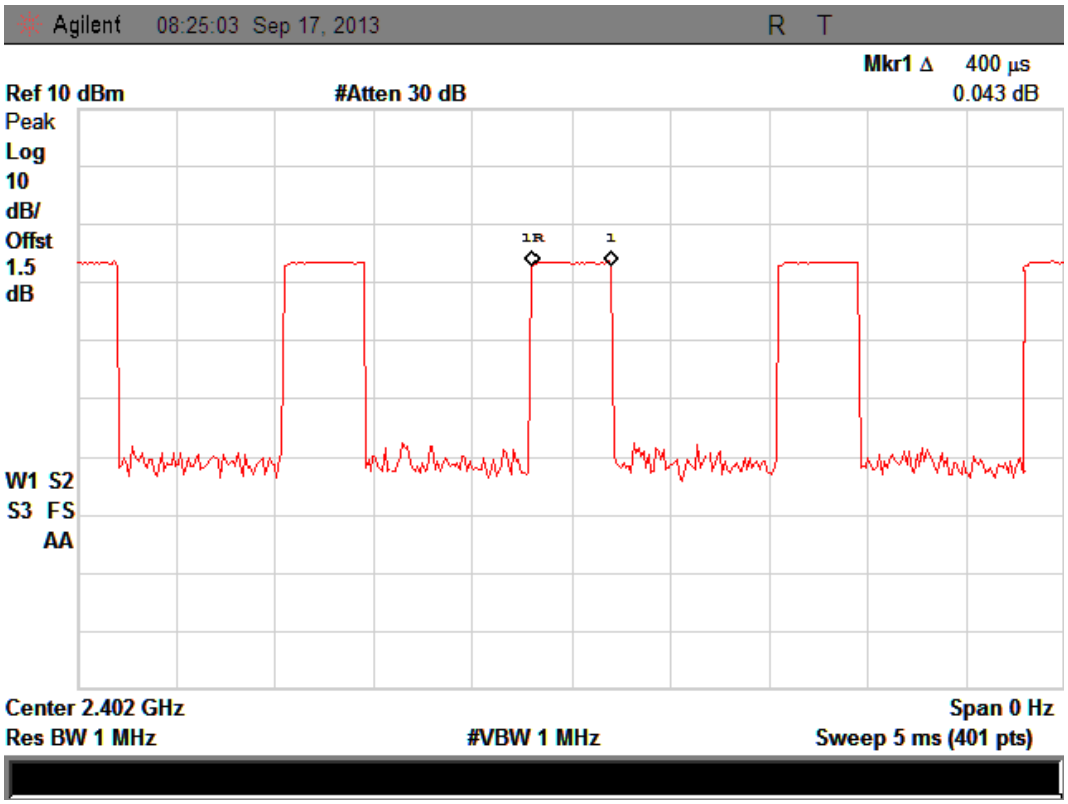
3-DH1 time slot = 0.400(ms) * (1600/(1*79)) *31.6= 256 (ms)

3-DH3 time slot = 1.663 (ms) * (1600/(3*79)) * 31.6 = 354.77 (ms)

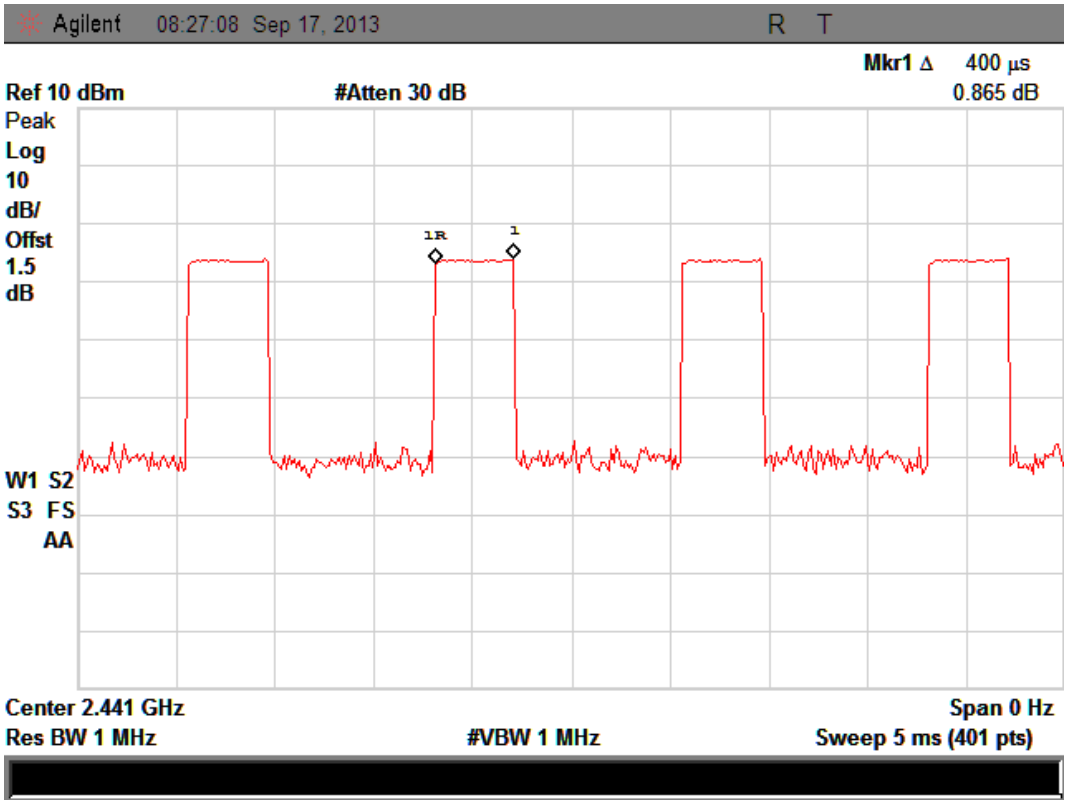
3-DH5 time slot =2.913 (ms) * (1600/(5*79)) * 31.6 = 372.86 (ms)

Detailed information please see the following page.

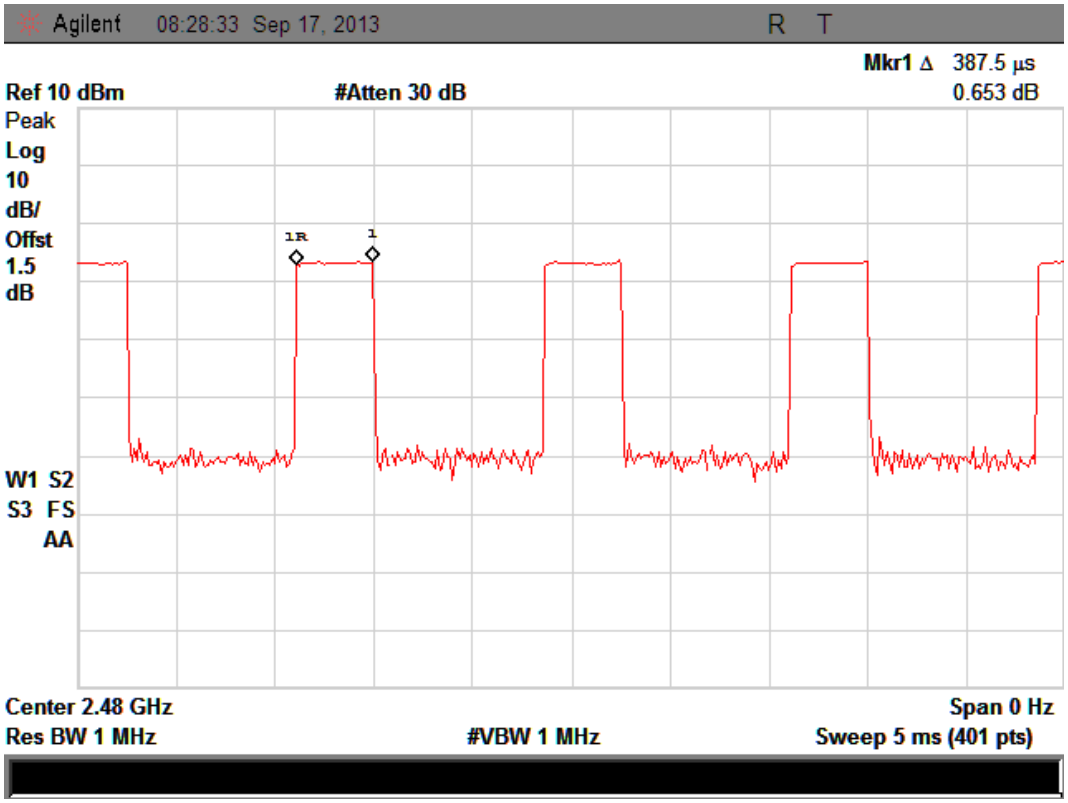
DH1: CH Low



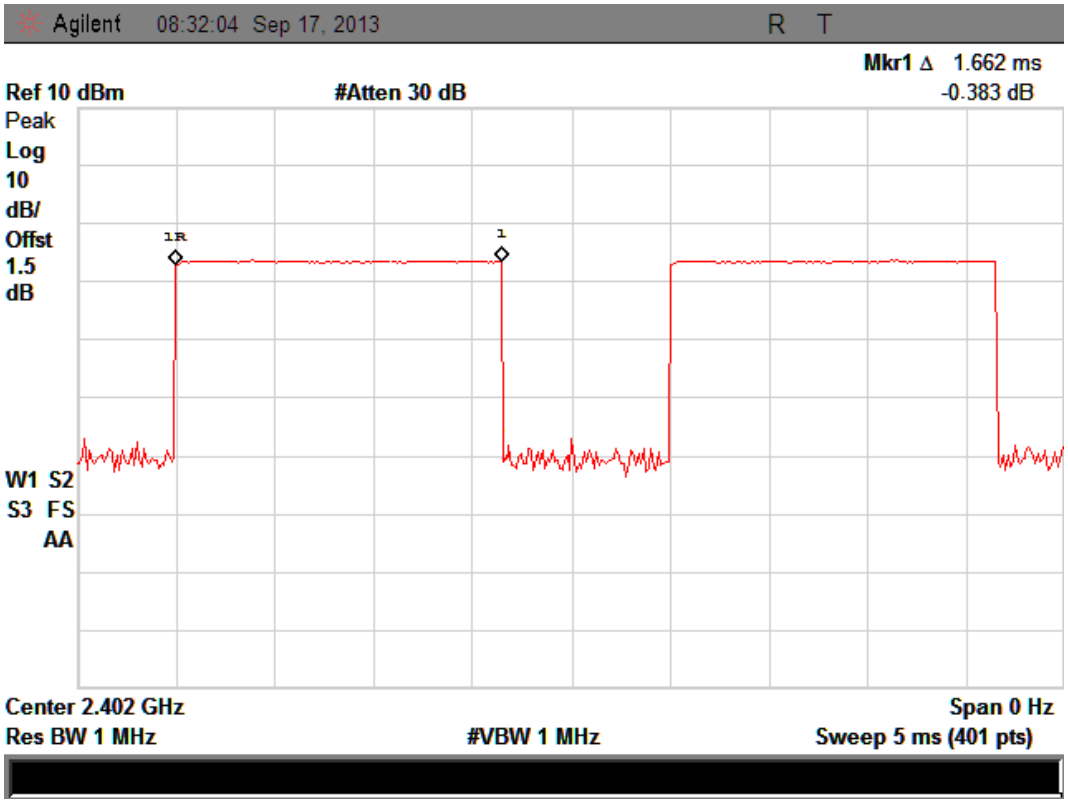
DH1: CH Mid



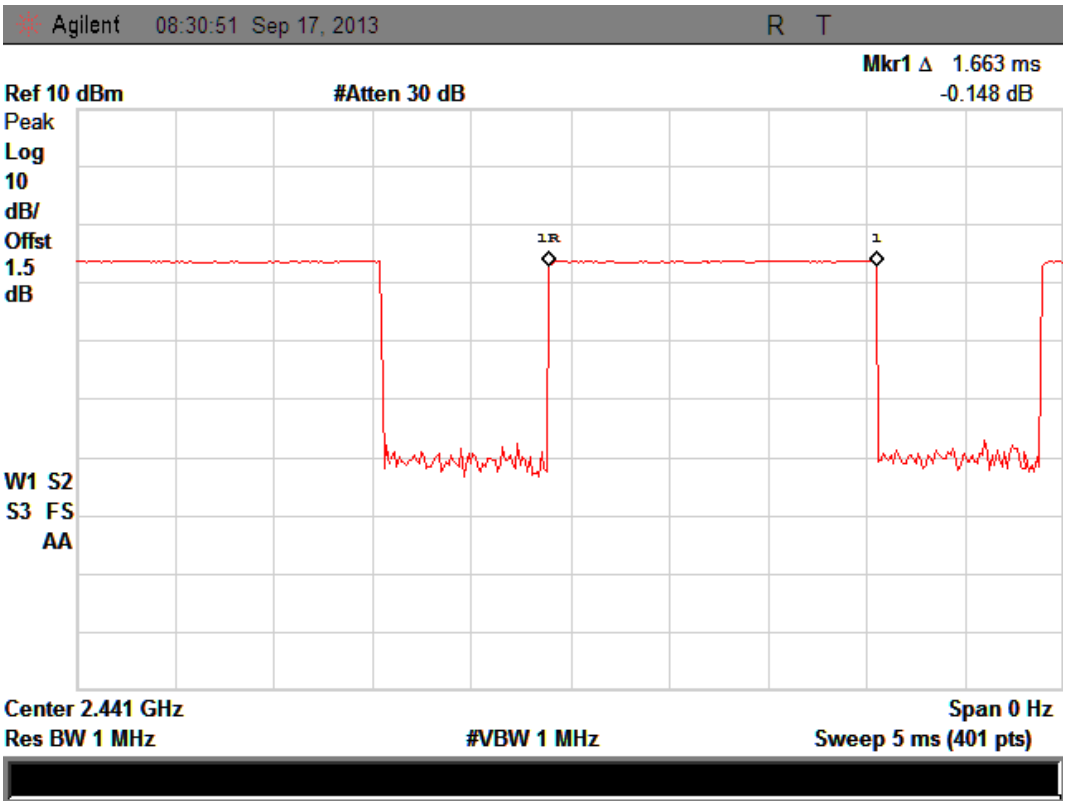
DH1: CH High



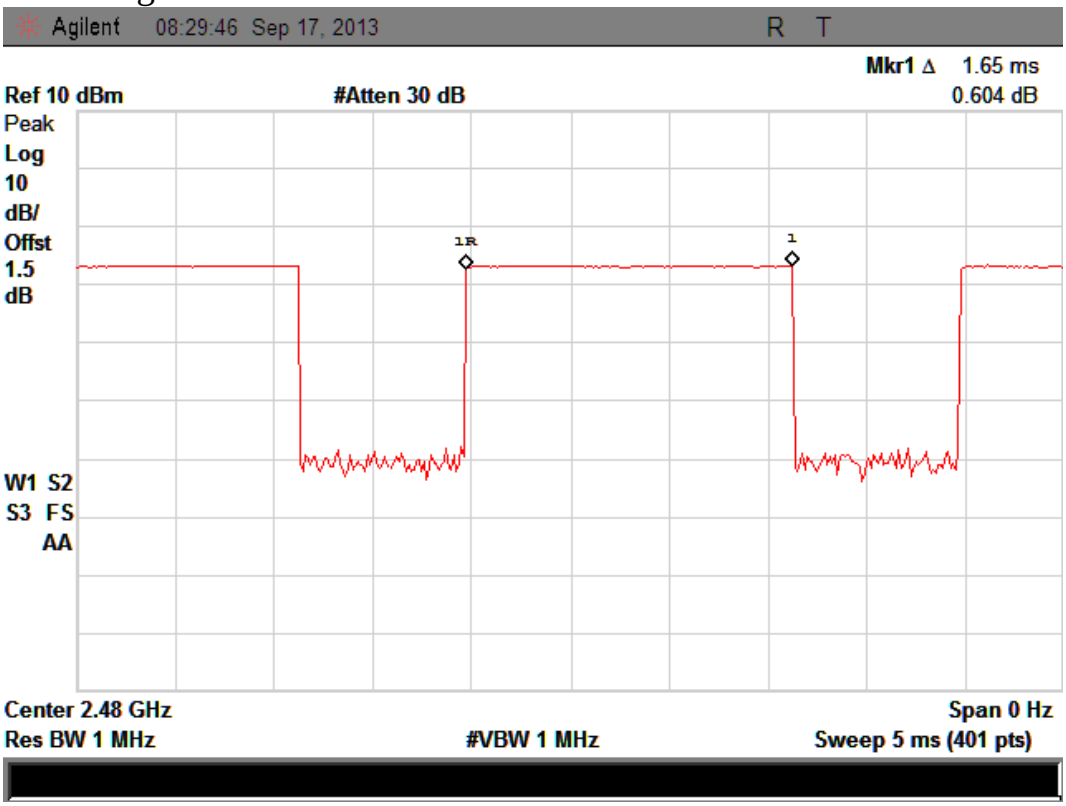
DH3: CH Low:



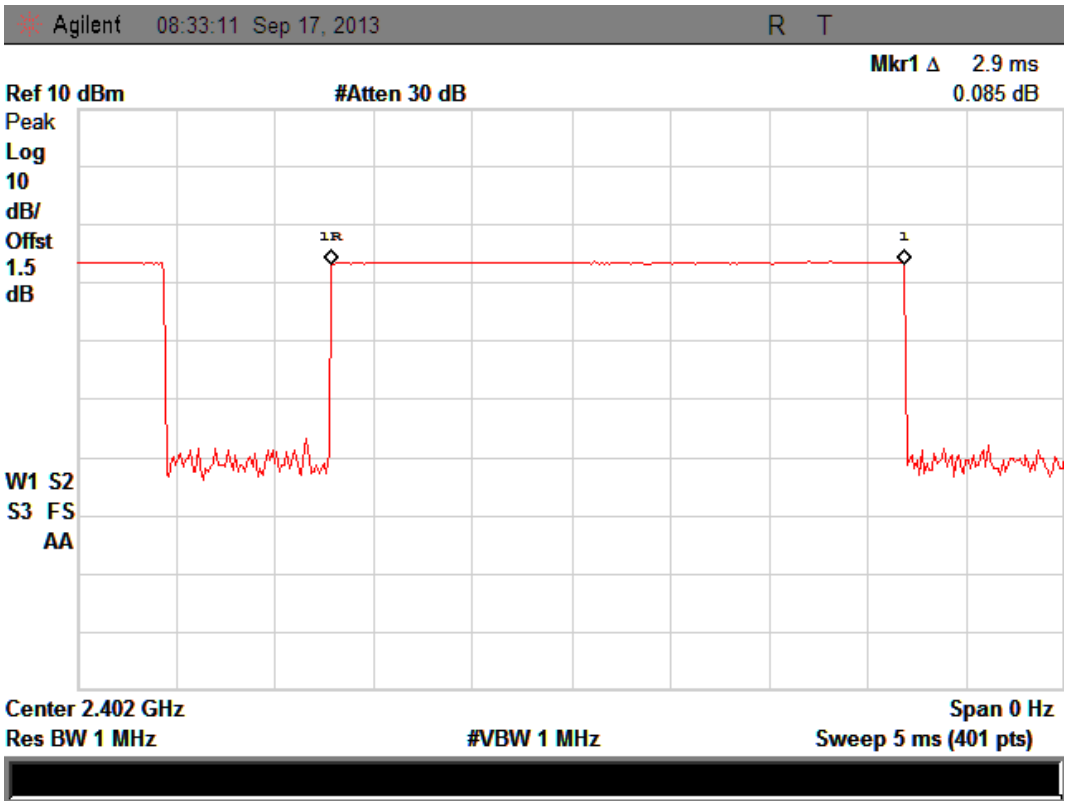
DH3: CH Mid



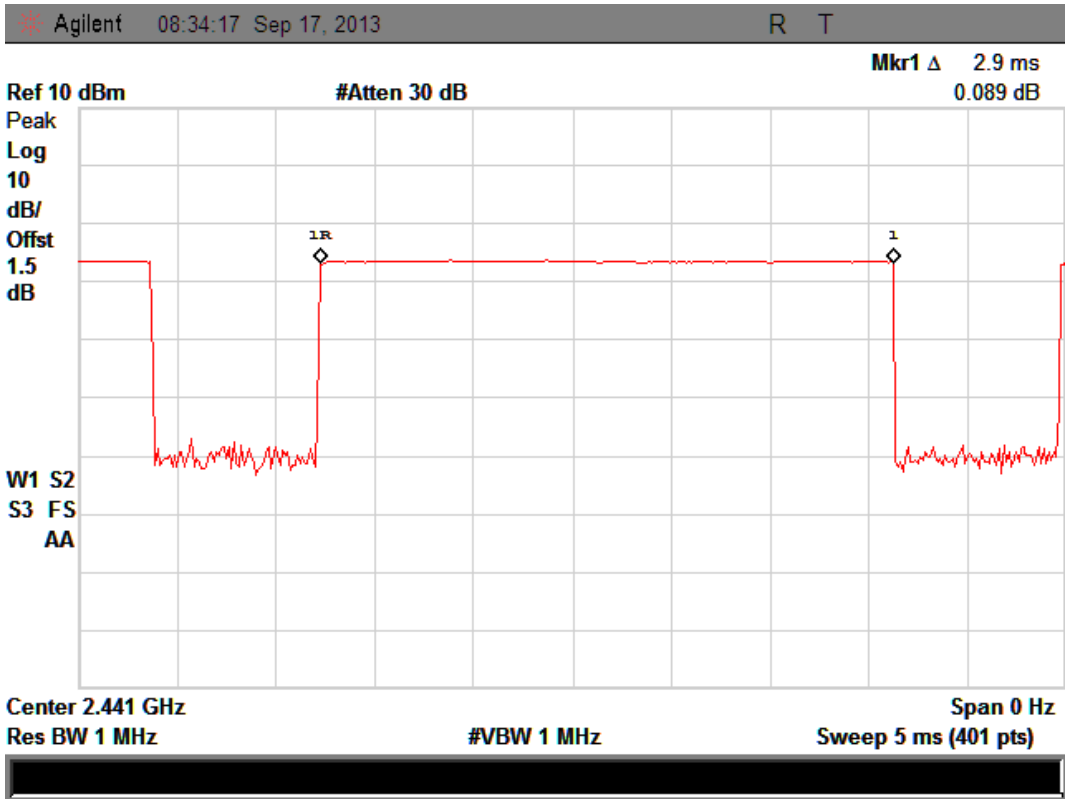
DH3 CH High



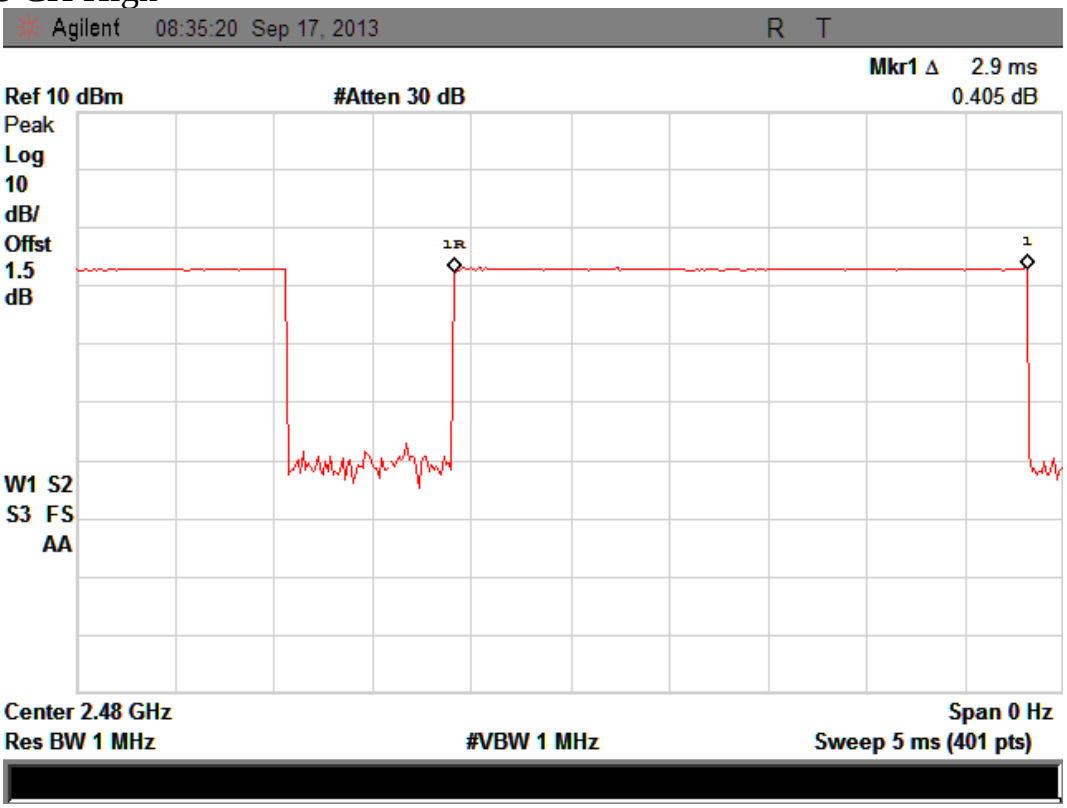
DH5 CH Low



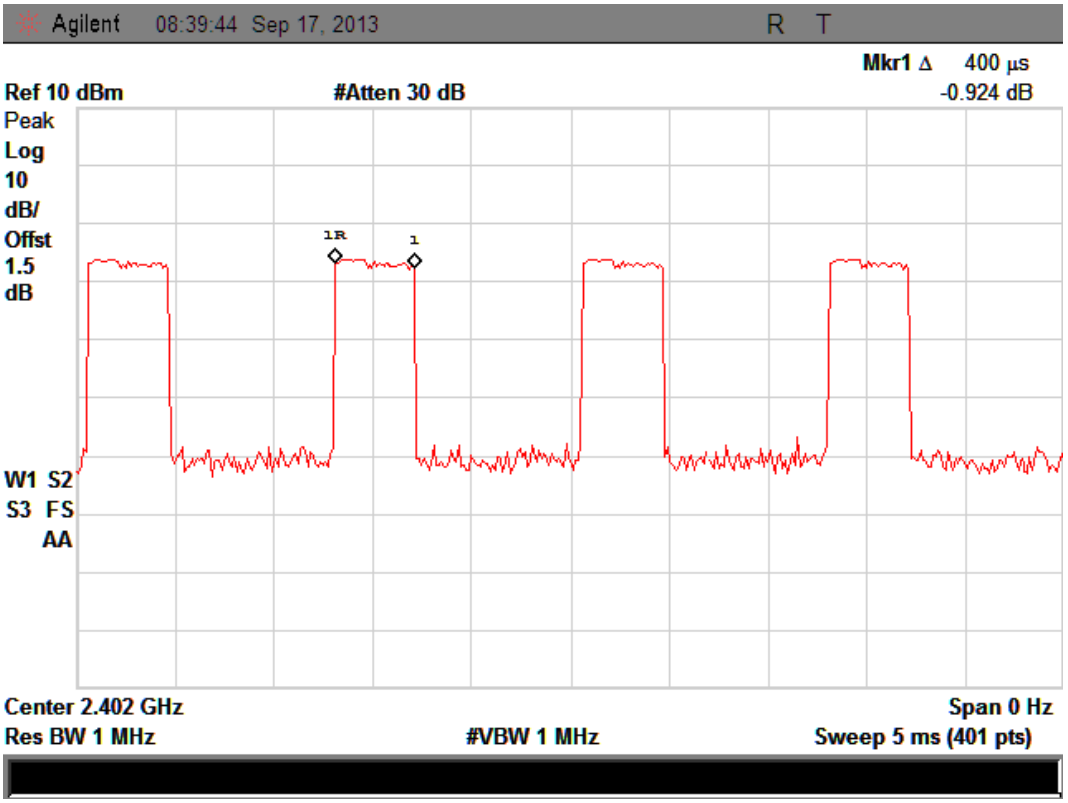
DH5 CH Mid



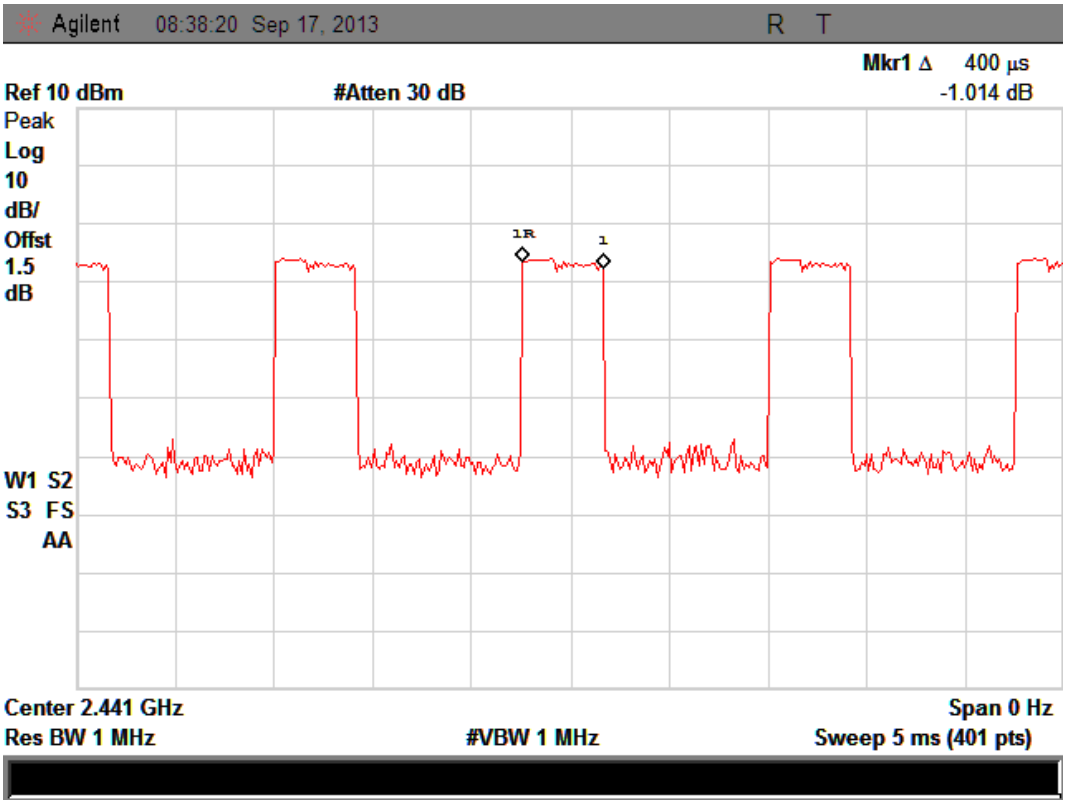
DH5 CH High



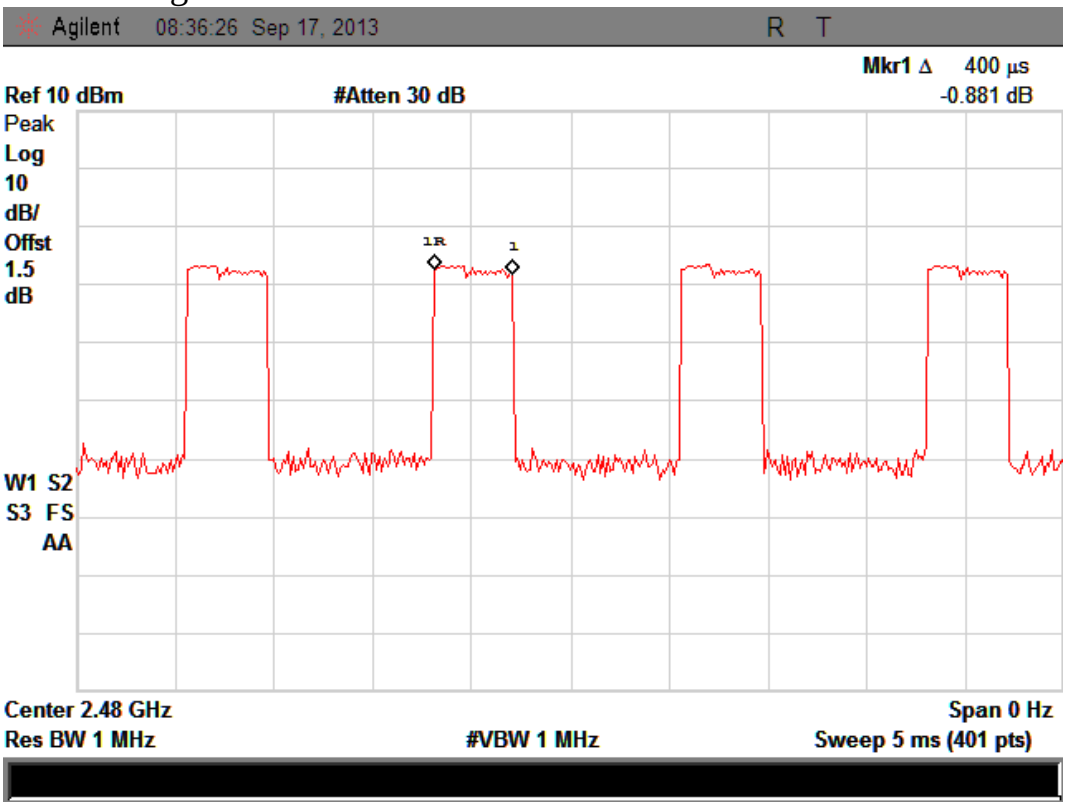
3-DH1: CH Low



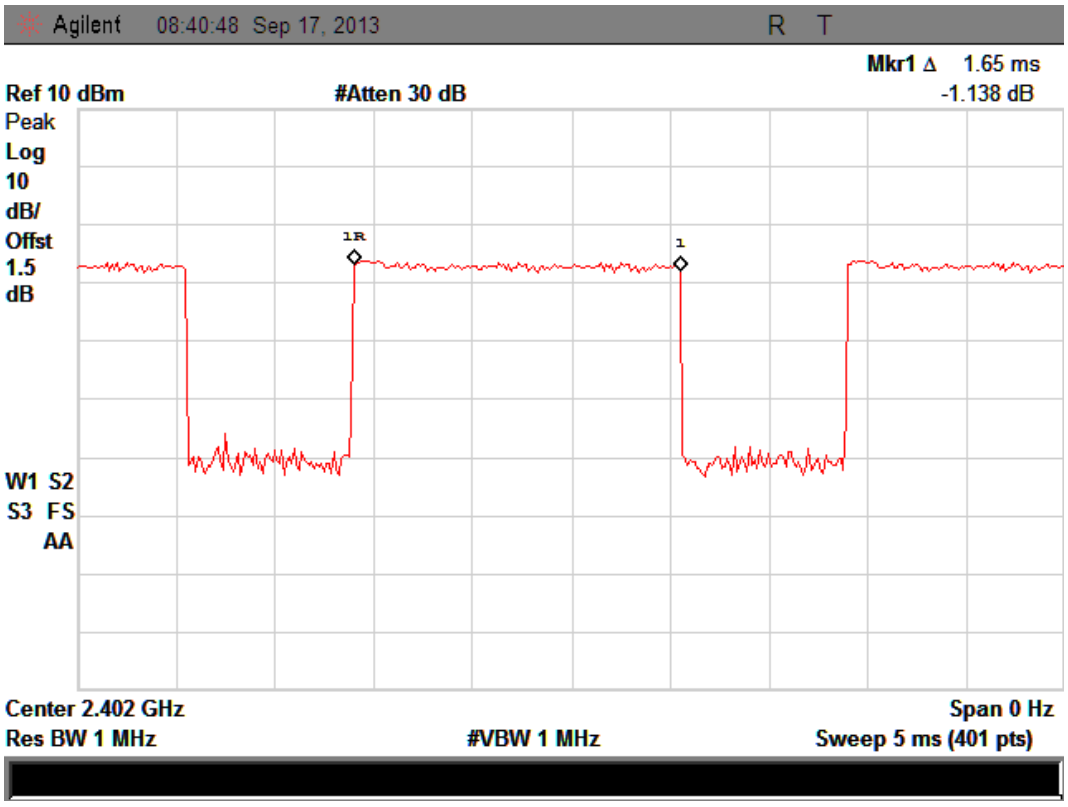
3-DH1: CH Mid



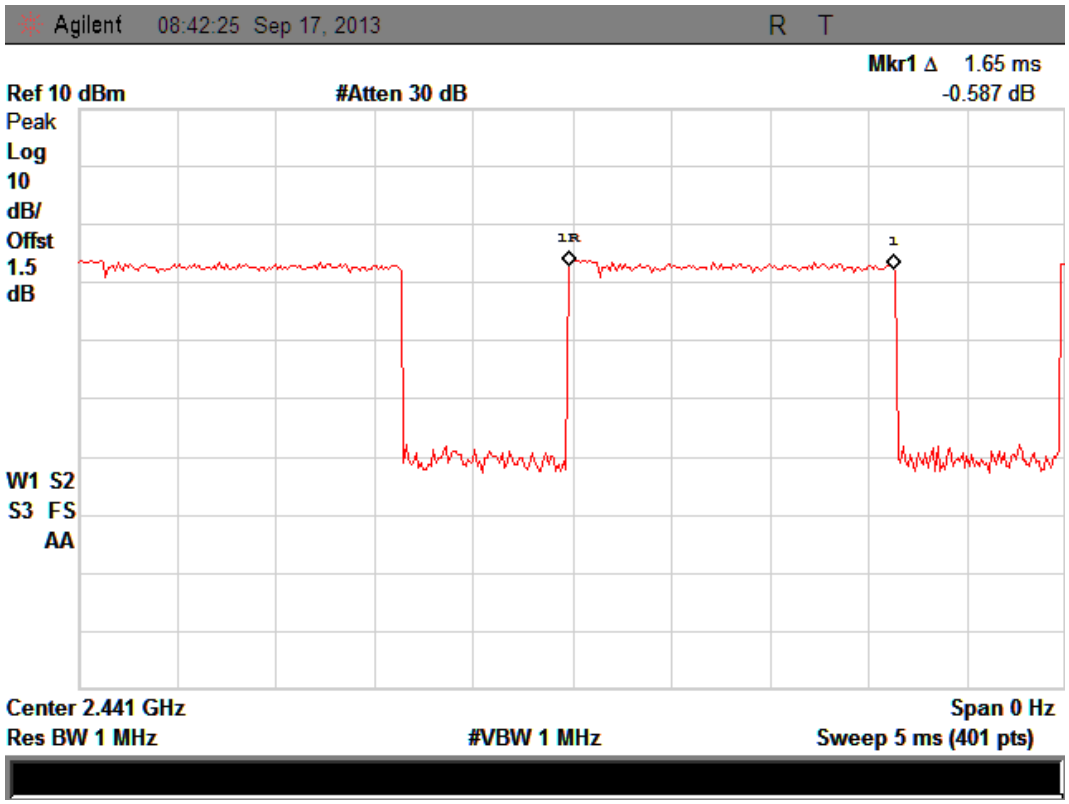
3-DH1: CH High



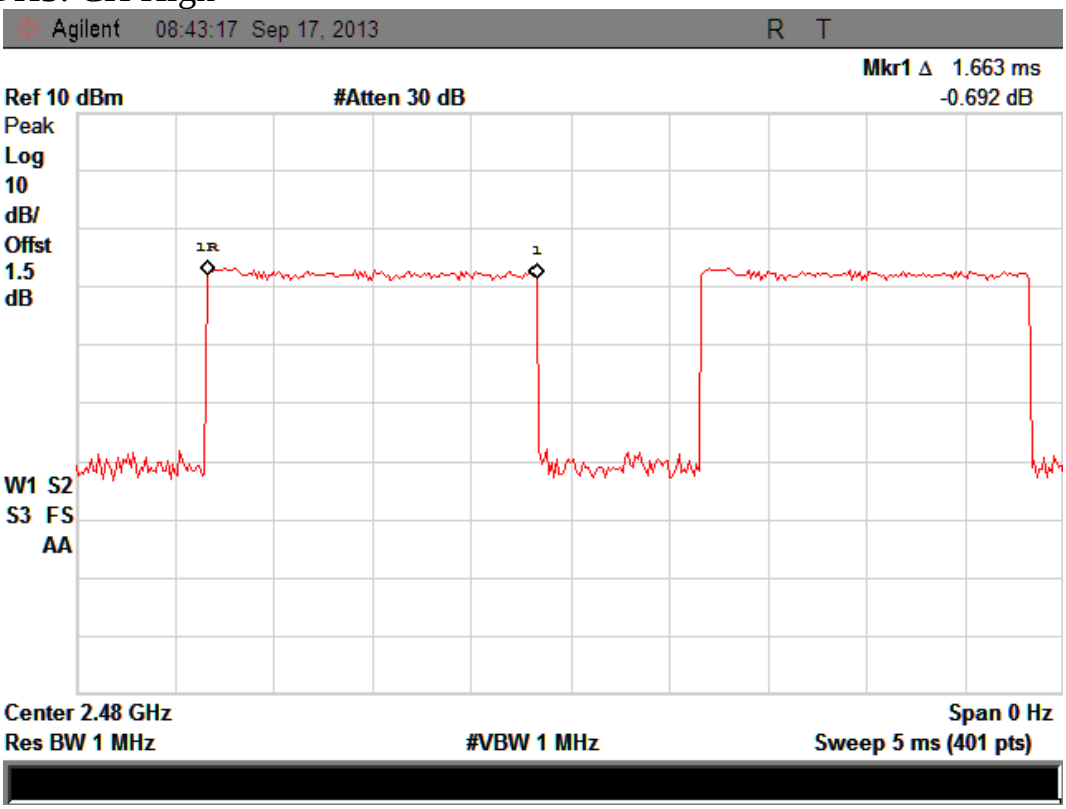
3-DH3: CH Low



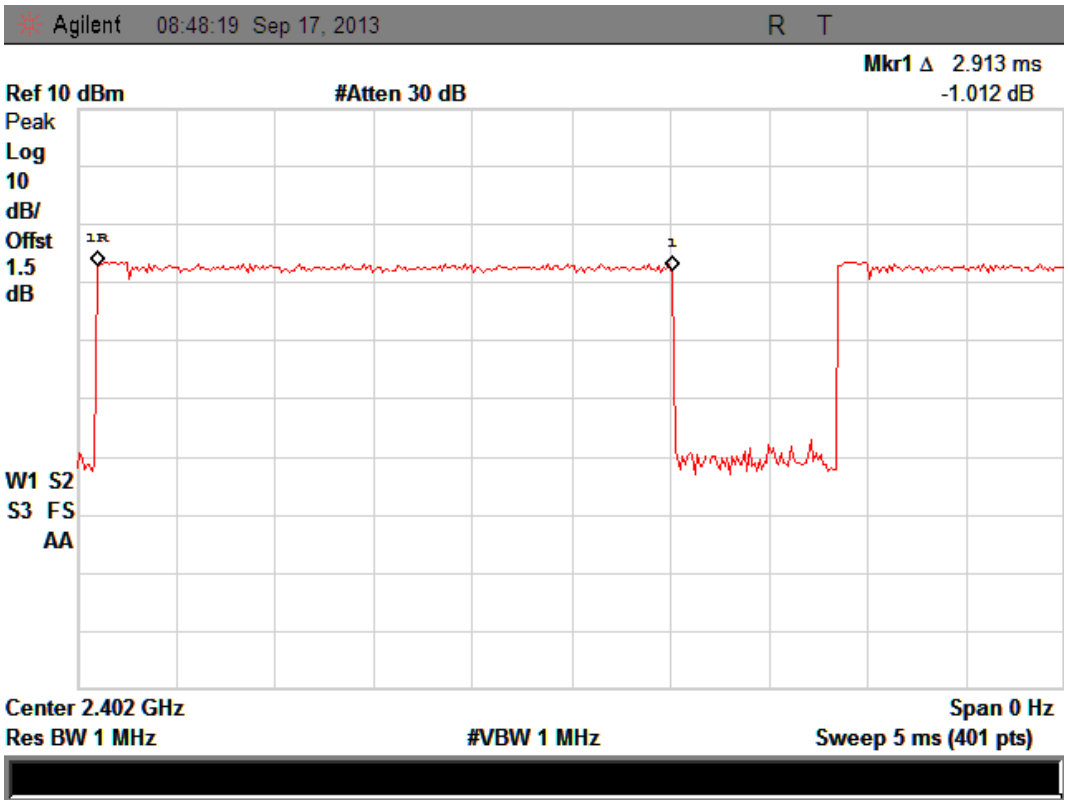
3-DH3: CH Mid



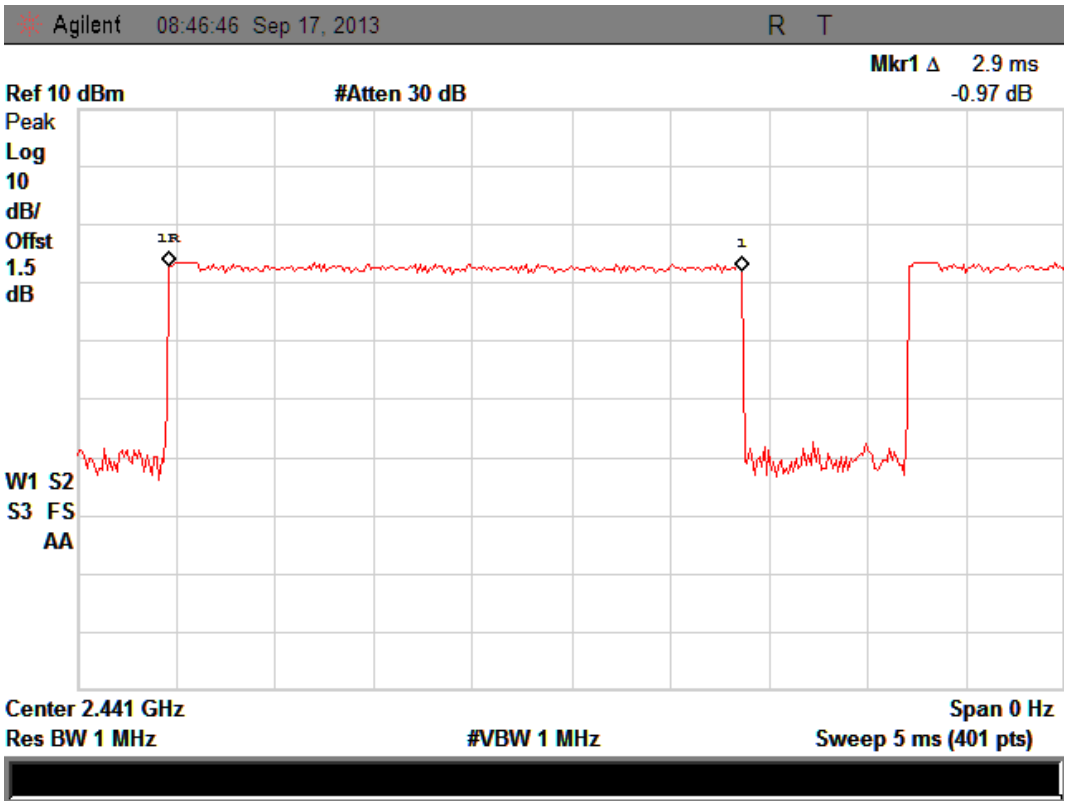
3-DH3: CH High



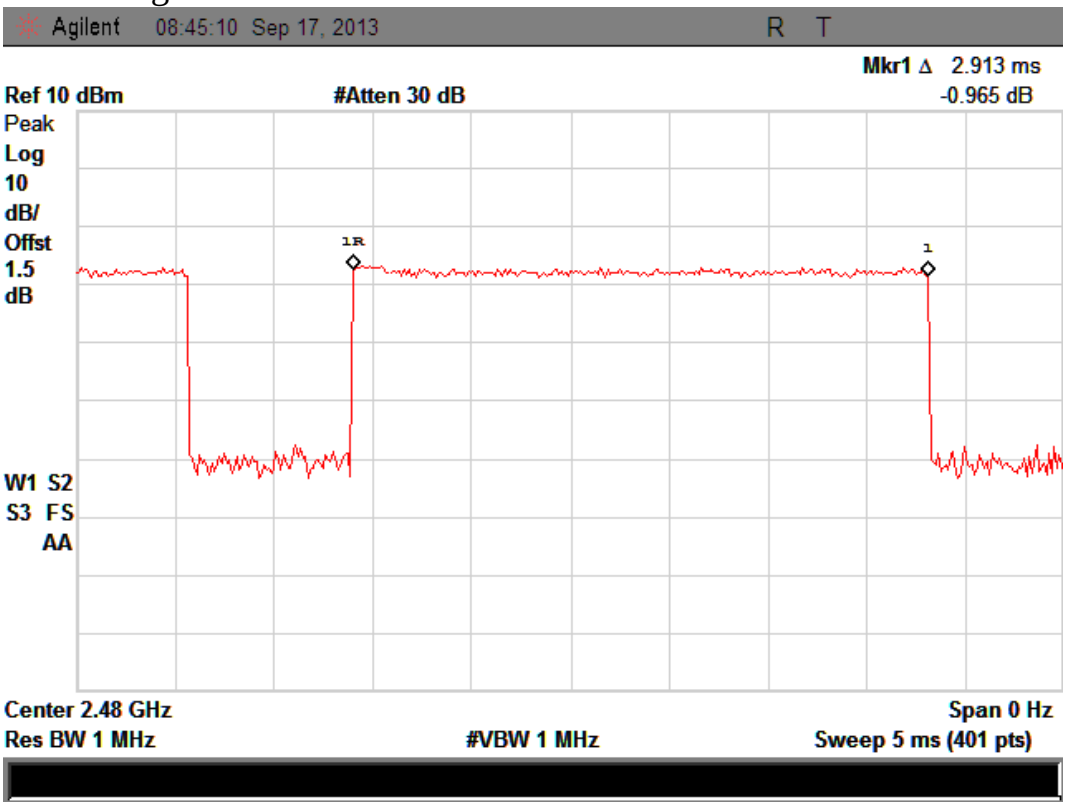
3-DH5: CH Low



3-DH5: CH Mid



3-DH5: CH High



8. Radiated emissions

8.1. Limit

All the emissions appearing within 15.205 restricted frequency bands shall not exceed the limits shown in 15.209, all the other emissions shall be at least 20dB below the fundamental emissions, or comply with 15.209 limits.

15.205 Restricted frequency band

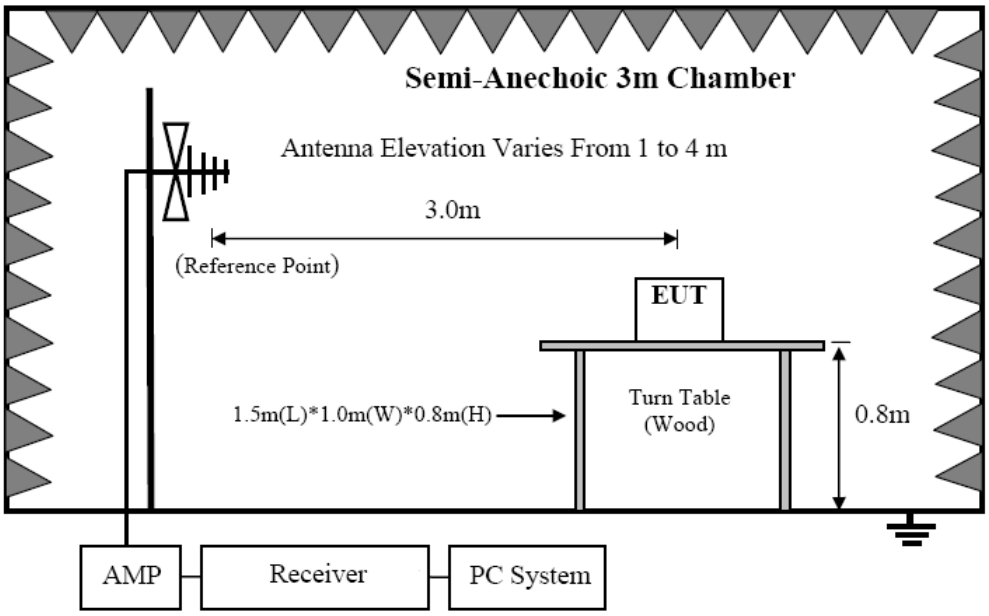
MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
[1]0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.6 - 12.7
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2
8.362 - 8.366	156.52475 - 156.52525	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.7 - 156.9	2690 - 2900	22.01 - 23.12
8.41425 - 8.41475	162.0125 - 167.17	3260 - 3267	23.6 - 24.0
12.29 - 12.293	167.72 - 173.2	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	240 - 285	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	322 - 335.4	3600 - 4400	([2])

15.209 Limit

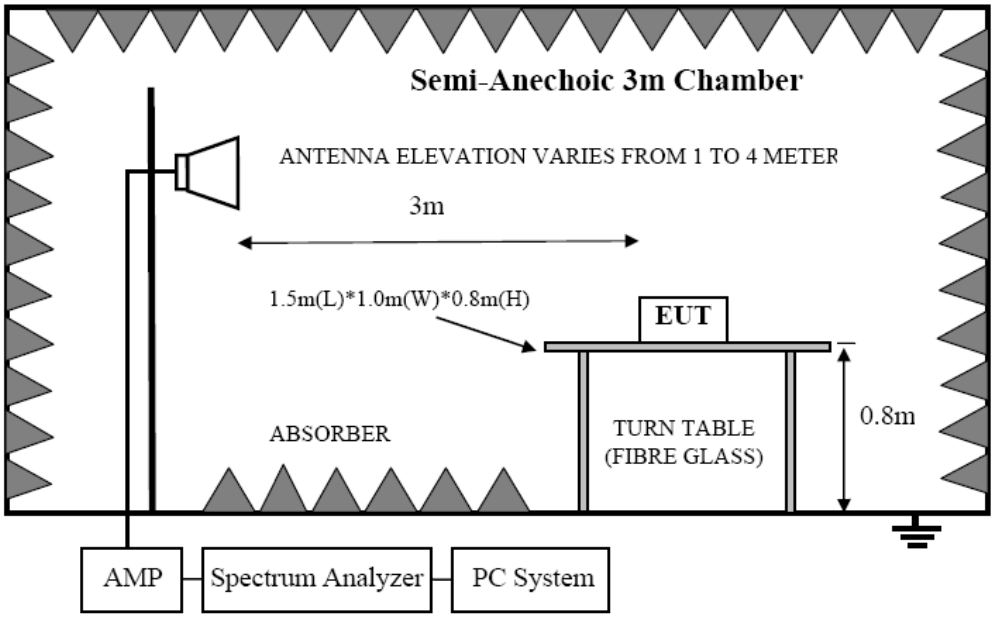
FREQUENCY MHz	DISTANCE Meters	FIELD STRENGTHS LIMIT	
		μV/m	dB(μV)/m
0.009-0.490	300	2400/F(KHz)	/
0.490-1.705	30	24000/F(KHz)	/
1.705-30	30	30	29.5
30 ~ 88	3	100	40.0
88 ~ 216	3	150	43.5
216 ~ 960	3	200	46.0
960 ~ 1000	3	500	54.0
Above 1000	3	74.0 dB(μV)/m (Peak) 54.0 dB(μV)/m (Average)	

8.2. Block Diagram of Test setup

8.2.1. In 3m Anechoic Chamber Test Setup Diagram for below 1GHz



8.2.2. In 3m Anechoic Chamber Test Setup Diagram for frequency above 1GHz



Note: For harmonic emissions test a appropriate high pass filter was inserted in the input port of AMP.

8.3. Test Procedure

(1) EUT was placed on a non-metallic table, 80 cm above the ground plane inside a semi-anechoic chamber.

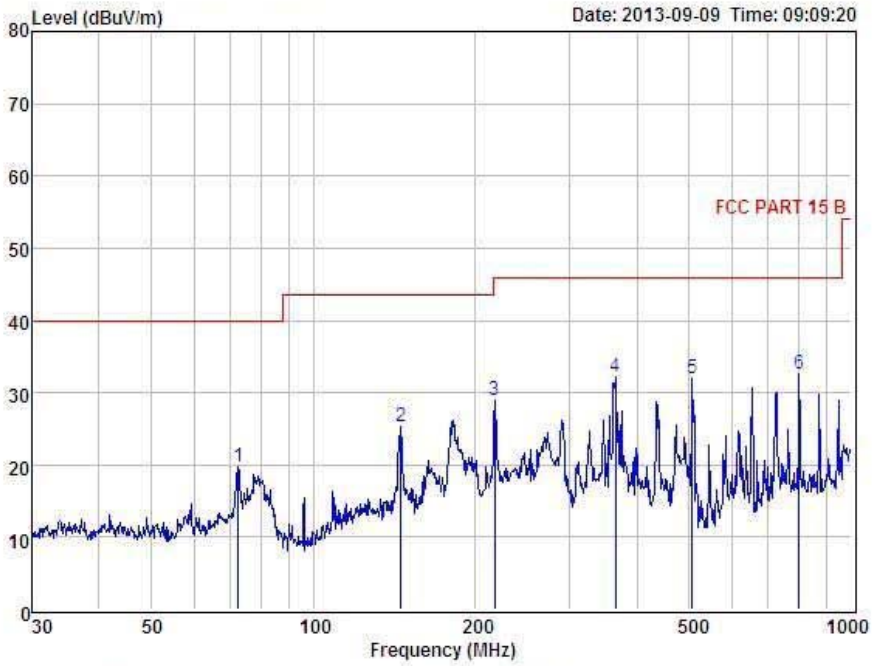
(2) Setup EUT and simulator as shown in section 1.4 and 6.1
(3) Test antenna was located 3m from the EUT on an adjustable mast. Below pre-scan procedure was first performed in order to find prominent radiated emissions.
(a) Change work frequency or channel of device if practicable.
(b) Change modulation type of device if practicable.
(c) Change power supply range from 85% to 115% of the rated supply voltage for AC power supply.
(d) Rotated EUT though three orthogonal axes to determine the attitude of EUT arrangement produces highest emissions
(4) Spectrum frequency from 9KHz to 25GHz (tenth harmonic of fundamental frequency) was investigated
(5) For final emissions measurements at each frequency of interest, the EUT were rotated and the antenna height was varied between 1m and 4m in order to maximize the emission. Measurements in both horizontal and vertical polarities were made and the data was recorded. In order to find the maximum emission, the relative positions of equipments and all of the interface cables were changed according to ANSI C63.4 2003 on Radiated Emission test.
(6) For emissions above 1GHz, both Peak and Average level were measured with Spectrum Analyzer, and the RBW is set at 1MHz, VBW is set at 3MHz for Peak measure; RBW is set at 1MHz, VBW is set at 10Hz for Average measure.

8.4. Test Result

We have scanned the 10th harmonic from 9KHz to the EUT.
Detailed information please see the following page.
From 9KHz to 30MHz: Conclusion: PASS

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

Shenzhen Certification Technology Service Co., Ltd
2F, Building B, East Area of Nanchang Second Industrial Zone,
Gushu 2nd Road, Bao'an District, Shenzhen 518126, P.R. China
Tel: 4006786199 FAX: +86-755-26736857
Website: http://www.cessz.com Email: Service@cessz.com

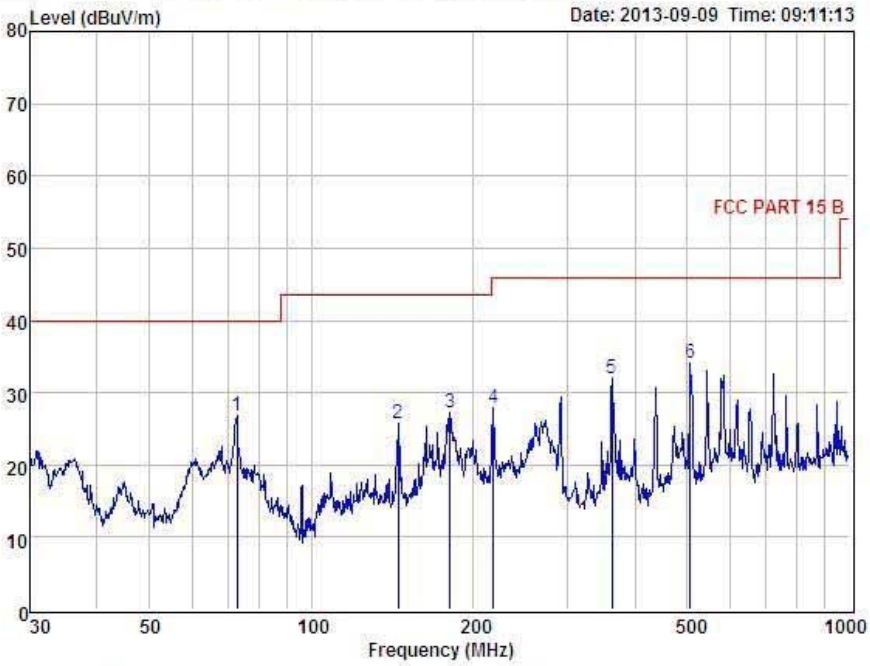


Condition : FCC PART 15 B 3m POL: HORIZONTAL
EUT : Tablet pc
Model No : CPITP101
Test Mode : Charging
Power : DC 5V Supply by AC 120V/60Hz adapter
Test Engineer : Store
Remark :
Temp : 24.2℃
Hum : 54%

Item	Freq	Read Level	Antenna Factor	Preamp Factor	Cable Loss	Level	Limit	Margin	Remark
	MHz	dBuV	dB	dB	dB	dBuV	dBuV	dBuV	
1	72.59	36.13	10.21	26.77	0.21	19.78	40.00	-20.22	QP
2	145.35	37.97	13.77	26.90	0.44	25.28	43.50	-18.22	QP
3	217.54	44.94	10.53	27.06	0.59	29.00	46.00	-17.00	QP
4	364.26	44.73	14.12	27.31	0.70	32.24	46.00	-13.76	QP
5	506.48	42.00	16.65	27.64	0.88	31.89	46.00	-14.11	QP
6	798.98	38.17	20.69	27.65	1.49	32.70	46.00	-13.30	QP

Remark: Level = Read Level + Antenna Factor - Preamp Factor + Cable Loss

Shenzhen Certification Technology Service Co., Ltd
2F, Building B, East Area of Nanchang Second Industrial Zone,
Gushu 2nd Road, Bao'an District, Shenzhen 518126, P.R. China
Tel: 4006786199 FAX: +86-755-26736857
Website: http://www.cessz.com Email: Service@cessz.com



Condition : FCC PART 15 B 3m POL: VERTICAL
EUT : Tablet pc
Model No : CPITP101
Test Mode : Charging
Power : DC 5V Supply by AC 120V/60Hz adapter
Test Engineer : Store
Remark :
Temp : 24.2℃
Hum : 54%

Item	Freq	Read Level	Antenna Factor	Preamp Factor	Cable Loss	Level	Limit	Margin	Remark
	MHz	dBuV	dB	dB	dB	dBuV	dBuV	dBuV	
1	72.85	43.18	10.21	26.77	0.21	26.83	40.00	-13.17	QP
2	144.84	38.48	13.77	26.90	0.46	25.81	43.50	-17.69	QP
3	181.28	42.00	11.68	26.93	0.51	27.26	43.50	-16.24	QP
4	218.31	43.74	10.53	27.06	0.63	27.84	46.00	-18.16	QP
5	361.71	44.30	14.07	27.31	0.86	31.92	46.00	-14.08	QP
6	506.48	44.27	16.65	27.64	0.88	34.16	46.00	-11.84	QP

Remark: Level = Read Level + Antenna Factor - Preamp Factor + Cable Loss

1GHz—25GHz Radiated emissison Test result									
EUT: Tablet pc M/N: CPITP101									
Power: DC 5V From PC with AC 120V/60Hz adapter									
Test date: 2013-09-17 Test site: 3m Chamber Tested by: Anna Fan									
Test mode: GFSK Tx CH1 2402MHz									
Antenna polarity: Vertical									
No	Freq (MHz)	Read Level (dBuV/m)	Antenna Factor (dB/m)	Cable loss(dB)	Amp Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4804	47.12	34.08	10.12	34.18	57.14	74.00	16.86	PK
2	4804	33.56	34.08	10.12	34.18	43.58	54.00	10.42	AV
3	7206	/							
4	9608	/							
5	12010	/							
Antenna Polarity: Horizontal									
1	4804	47.93	34.08	10.12	34.18	57.95	74.00	16.05	PK
2	4804	34.15	34.08	10.12	34.18	44.17	54.00	9.83	AV
3	7206	/							
4	9608	/							
5	12010	/							
Note: 1, Measuring frequency from 1GHz to 25GHz 2, Spectrum Set for PK measure: RBW=1MHz, VBW=1MHz, Sweep time=Auto, Detector: PK 2, Spectrum Set for AV measure: RBW=1MHz, VBW=10Hz, Sweep time=Auto, Detector: PK 3, Result = Read level + Antenna factor + cable loss-Amp factor 4, All the other emissions not reported were too low to read and deemed to comply with FCC limit.									

1GHz—25GHz Radiated emissison Test result									
EUT: Tablet pc M/N: CPITP101									
Power: DC 5V From PC with AC 120V/60Hz adapter									
Test date: 2013-09-17 Test site: 3m Chamber Tested by: Anna Fan									
Test mode: GFSK Tx CH40 2441MHz									
Antenna polarity: Vertical									
No	Freq (MHz)	Read Level (dBuV/m)	Antenna Factor (dB/m)	Cable loss(dB)	Amp Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4882	48.33	34.10	10.14	34.20	58.37	74.00	15.63	PK
2	4882	35.69	34.10	10.14	34.20	45.73	54.00	8.27	AV
3	7323	/							
4	9764	/							
5	12205	/							
Antenna Polarity: Horizontal									
1	4882	47.95	34.10	10.14	34.20	57.99	74.00	16.01	PK
2	4882	33.82	34.10	10.14	34.20	43.86	54.00	10.14	AV
3	7323	/							
4	9764	/							
5	12205	/							
Note: 1, Measuring frequency from 1GHz to 25GHz 2, Spectrum Set for PK measure: RBW=1MHz, VBW=1MHz, Sweep time=Auto, Detector: PK 2, Spectrum Set for AV measure: RBW=1MHz, VBW=10Hz, Sweep time=Auto, Detector: PK 3, Result = Read level + Antenna factor + cable loss-Amp factor 4, All the other emissions not reported were too low to read and deemed to comply with FCC limit.									

1GHz—25GHz Radiated emissison Test result									
EUT: Tablet pc M/N: CPITP101									
Power: DC 5V From PC with AC 120V/60Hz adapter									
Test date: 2013-09-17 Test site: 3m Chamber Tested by: Anna Fan									
Test mode: GFSK Tx CH79 2480MHz									
Antenna polarity: Vertical									
No	Freq (MHz)	Read Level (dBuV/m)	Antenna Factor (dB/m)	Cable loss(dB)	Amp Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4960	48.14	34.09	10.13	34.19	58.17	74.00	15.83	PK
2	4960	33.52	34.09	10.13	34.19	43.55	54.00	10.45	AV
3	7440	/							
4	9920	/							
5	12400	/							
Antenna Polarity: Horizontal									
1	4960	49.23	34.09	10.13	34.19	59.26	74.00	14.74	PK
2	4960	34.25	34.09	10.13	34.19	44.28	54.00	9.72	AV
3	7440	/							
4	9920	/							
5	12400	/							
Note: 1, Measuring frequency from 1GHz to 25GHz 2, Spectrum Set for PK measure: RBW=1MHz, VBW=1MHz, Sweep time=Auto, Detector: PK 2, Spectrum Set for AV measure: RBW=1MHz, VBW=10Hz, Sweep time=Auto, Detector: PK 3, Result = Read level + Antenna factor + cable loss-Amp factor 4, All the other emissions not reported were too low to read and deemed to comply with FCC limit.									

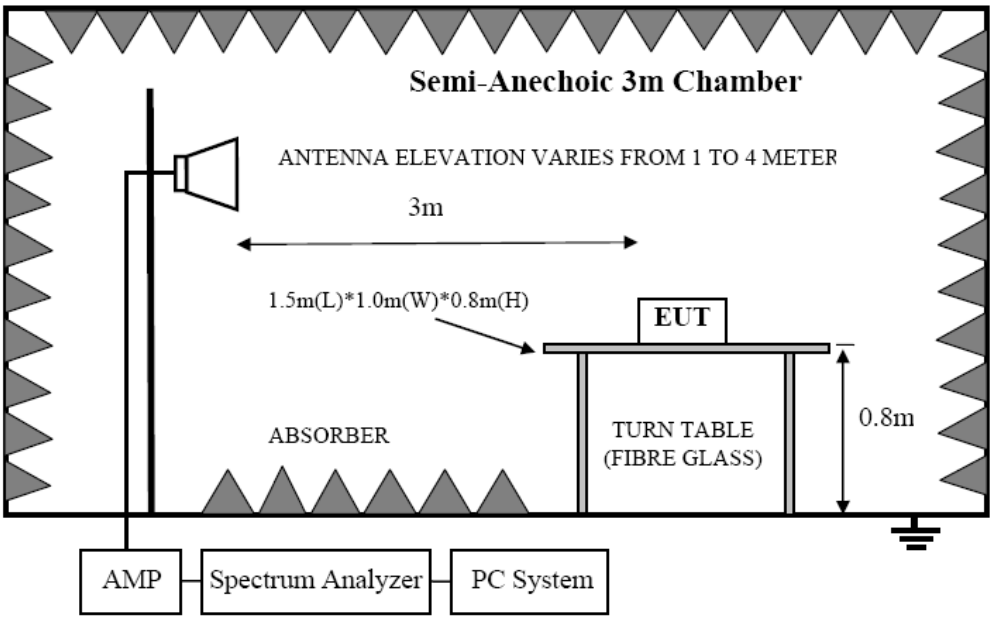
1GHz—25GHz Radiated emissison Test result									
EUT: Tablet pc M/N: CPITP101									
Power: DC 5V From PC with AC 120V/60Hz adapter									
Test date: 2013-09-17 Test site: 3m Chamber Tested by: Anna Fan									
Test mode: 8-DPSK Tx CH1 2402MHz									
Antenna polarity: Vertical									
No	Freq (MHz)	Read Level (dBuV/m)	Antenna Factor (dB/m)	Cable loss(dB)	Amp Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4804	47.62	34.08	10.12	34.18	57.64	74.00	16.36	PK
2	4804	33.17	34.08	10.12	34.18	43.19	54.00	10.81	AV
3	7206	/							
4	9608	/							
5	12010	/							
Antenna Polarity: Horizontal									
1	4804	48.22	34.08	10.12	34.18	58.24	74.00	15.76	PK
2	4804	34.19	34.08	10.12	34.18	44.21	54.00	9.79	AV
3	7206	/							
4	9608	/							
5	12010	/							
Note: 1,Measuring frequency from 1GHz to 25GHz 2,Spectrum Set for PK measure: RBW=1MHz, VBW=1MHz, Sweep time=Auto, Detector: PK 2,Spectrum Set for AV measure: RBW=1MHz, VBW=10Hz, Sweep time=Auto, Detector: PK 3,Result = Read level + Antenna factor + cable loss-Amp factor 4,All the other emissions not reported were too low to read and deemed to comply with FCC limit.									

1GHz—25GHz Radiated emissison Test result									
EUT: Tablet pc M/N: CPITP101									
Power: DC 5V From PC with AC 120V/60Hz adapter									
Test date: 2013-09-17 Test site: 3m Chamber Tested by: Anna Fan									
Test mode: 8-DPSK Tx CH40 2441MHz									
Antenna polarity: Vertical									
No	Freq (MHz)	Read Level (dBuV/m)	Antenna Factor (dB/m)	Cable loss(dB)	Amp Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4882	49.21	34.10	10.14	34.20	59.25	74.00	14.75	PK
2	4882	34.79	34.10	10.14	34.20	44.83	54.00	9.17	AV
3	7323	/							
4	9764	/							
5	12205	/							
Antenna Polarity: Horizontal									
1	4882	50.05	34.10	10.14	34.20	60.09	74.00	13.91	PK
2	4882	34.37	34.10	10.14	34.20	44.41	54.00	9.59	AV
3	7323	/							
4	9764	/							
5	12205	/							
Note: 1, Measuring frequency from 1GHz to 25GHz 2, Spectrum Set for PK measure: RBW=1MHz, VBW=1MHz, Sweep time=Auto, Detector: PK 2, Spectrum Set for AV measure: RBW=1MHz, VBW=10Hz, Sweep time=Auto, Detector: PK 3, Result = Read level + Antenna factor + cable loss-Amp factor 4, All the other emissions not reported were too low to read and deemed to comply with FCC limit.									

1GHz—25GHz Radiated emissison Test result									
EUT: Tablet pc M/N: CPITP101									
Power: DC 5V From PC with AC 120V/60Hz adapter									
Test date: 2013-09-17 Test site: 3m Chamber Tested by: Anna Fan									
Test mode: 8-DPSK Tx CH79 2480MHz									
Antenna polarity: Vertical									
No	Freq (MHz)	Read Level (dBuV/m)	Antenna Factor (dB/m)	Cable loss(dB)	Amp Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4960	47.81	34.09	10.13	34.19	57.84	74.00	16.16	PK
2	4960	33.96	34.09	10.13	34.19	43.99	54.00	10.01	AV
3	7440	/							
4	9920	/							
5	12400	/							
Antenna Polarity: Horizontal									
1	4960	48.22	34.09	10.13	34.19	58.25	74.00	15.75	PK
2	4960	34.30	34.09	10.13	34.19	44.33	54.00	9.67	AV
3	7440	/							
4	9920	/							
5	12400	/							
Note: 1, Measuring frequency from 1GHz to 25GHz 2, Spectrum Set for PK measure: RBW=1MHz, VBW=1MHz, Sweep time=Auto, Detector: PK 2, Spectrum Set for AV measure: RBW=1MHz, VBW=10Hz, Sweep time=Auto, Detector: PK 3, Result = Read level + Antenna factor + cable loss-Amp factor 4, All the other emissions not reported were too low to read and deemed to comply with FCC limit.									

9. Band Edge Compliance

9.1. Block Diagram of Test Setup



9.2. Limit

All the lower and upper band-edges emissions appearing within 2310MHz to 2390MHz and 2483.5MHz to 2500MHz restricted frequency bands shall not exceed the limits shown in 15.209, all the other emissions outside operation frequency band 2400MHz to 2483.5MHz and 5725MHz to 5850MHz shall be at least 20dB below the fundamental emissions, or comply with 15.209 limits.

9.3. Test Procedure

Same with clause 6.3 except change investigated frequency range from 2310MHz to 2415MHz, 2475MHz to 2500MHz and 5725MHz to 5850MHz

9.4. Test Result

PASS. (See below detailed test data)

GFSK
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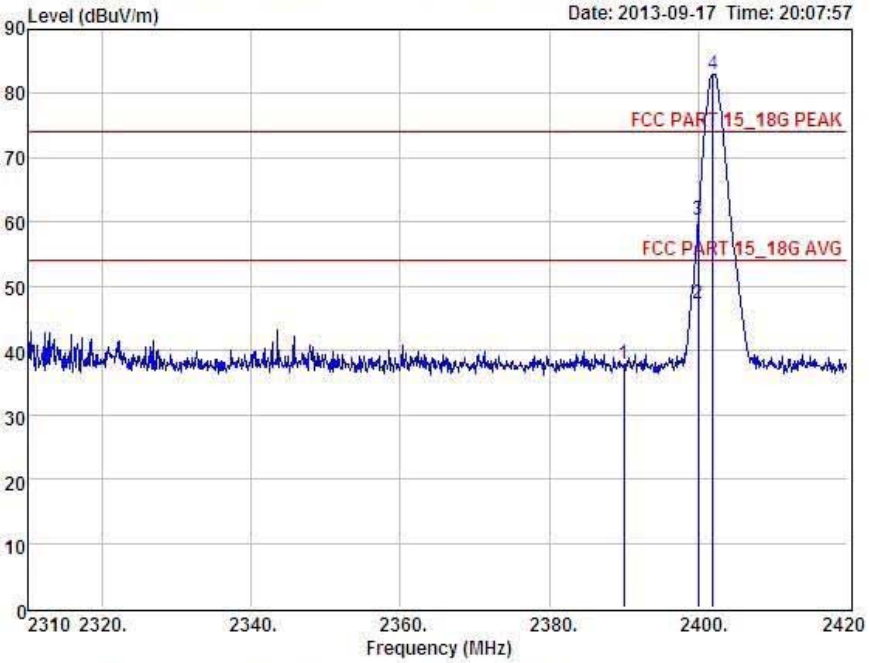

Condition : FCC PART 15_18G PEAK 3m POL: HORIZONTAL
EUT : Tablet pc
Model No : CPITP101
Test Mode : GFSK TX 2402MHz
Power : DC 5V Supply by AC 120V/60Hz adapter
Test Engineer : Anna
Remark :
Temp :
Hum :

Item	Freq	Read Level	Antenna Factor	Preamp Factor	Cable Loss	Level	Limit	Margin	Remark
	MHz	dBuV	dB	dB	dB	dBuV	dBuV	dBuV	
1	2390.00	41.19	27.62	34.97	3.92	37.76	74.00	-36.24	Peak
2	2400.00	50.72	27.62	34.97	3.94	47.31	54.00	-6.69	Average
3	2400.00	63.82	27.62	34.97	3.94	60.41	74.00	-13.59	Peak
4	2402.00	86.47	27.62	34.97	3.94	83.06	74.00	9.06	Peak

Remark: Level = Read Level + Antenna Factor - Preamp Factor + Cable Loss

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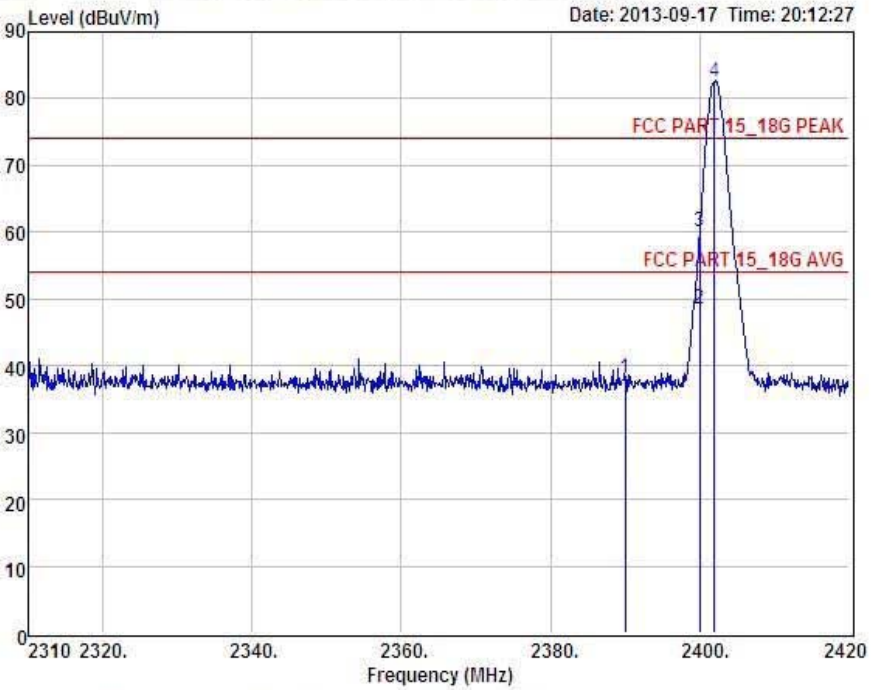

Condition : FCC PART 15_18G PEAK 3m POL: VERTICAL
EUT : Tablet pc
Model No : CPITP101
Test Mode : GFSK TX 2402MHz
Power : DC 5V Supply by AC 120V/60Hz adapter
Test Engineer : Anna
Remark :
Temp :
Hum :

Item	Freq	Read Level	Antenna Factor	Preamp Factor	Cable Loss	Level	Limit	Margin	Remark
	MHz	dBuV	dB	dB	dB	dBuV	dBuV	dBuV	
1	2390.00	41.66	27.62	34.97	3.92	38.23	74.00	-35.77	Peak
2	2400.00	51.93	27.62	34.97	3.94	48.52	54.00	-5.48	Average
3	2400.00	63.43	27.62	34.97	3.94	60.02	74.00	-13.98	Peak
4	2402.00	86.01	27.62	34.97	3.94	82.60	74.00	8.60	Peak

Remark: Level = Read Level + Antenna Factor - Preamp Factor + Cable Loss

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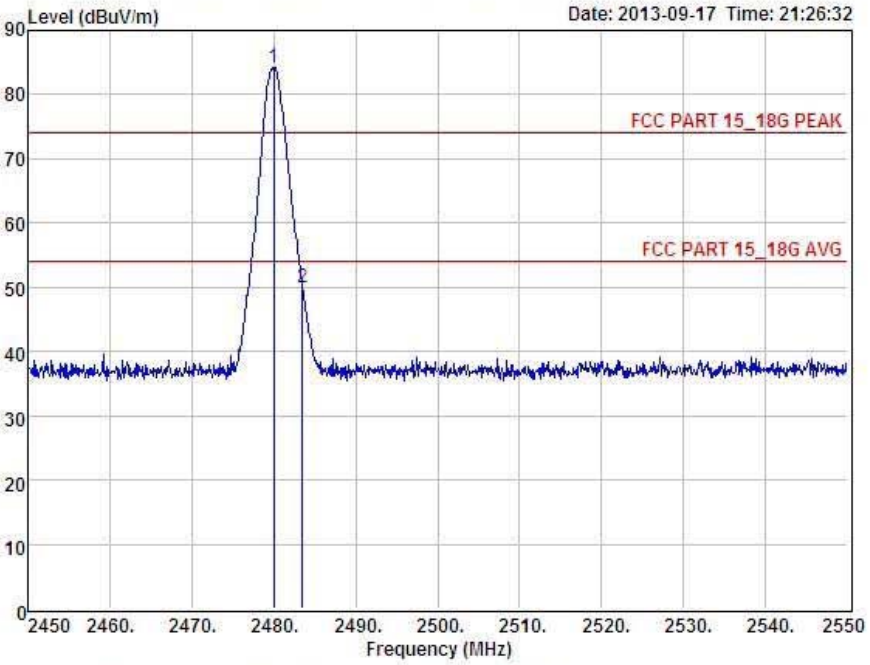

Condition : FCC PART 15_18G PEAK 3m POL: HORIZONTAL
EUT : Tablet pc
Model No : CPITP101
Test Mode : GFSK TX 2480MHz
Power : DC 5V Supply by AC 120V/60Hz adapter
Test Engineer : Anna
Remark :
Temp :
Hum :

Item	Freq	Read Level	Antenna Factor	Preamp Factor	Cable Loss	Level	Limit	Margin	Remark
	MHz	dBuV	dB	dB	dB	dBuV	dBuV	dBuV	
1	2480.00	87.50	27.59	34.97	4.00	84.12	74.00	10.12	Peak
2	2483.50	53.27	27.59	34.97	4.00	49.89	74.00	-24.11	Peak

Remark: Level = Read Level + Antenna Factor - Preamp Factor + Cable Loss

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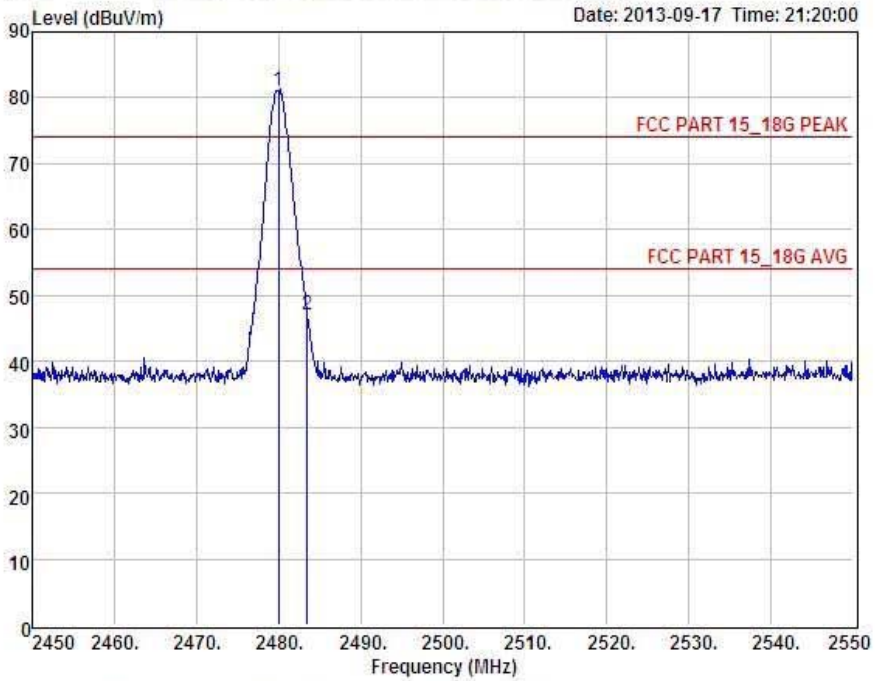

Condition : FCC PART 15_18G PEAK 3m POL: VERTICAL
EUT : Tablet pc
Model No : CPITP101
Test Mode : GFSK TX 2480MHz
Power : DC 5V Supply by AC 120V/60Hz adapter
Test Engineer : Anna
Remark :
Temp :
Hum :

Item	Freq	Read Level	Antenna Factor	Preamp Factor	Cable Loss	Level	Limit	Margin	Remark
	MHz	dBuV	dB	dB	dB	dBuV	dBuV	dBuV	
1	2480.00	84.52	27.59	34.97	4.00	81.14	74.00	7.14	Peak
2	2483.50	50.51	27.59	34.97	4.00	47.13	74.00	-26.87	Peak

Remark: Level = Read Level + Antenna Factor - Preamp Factor + Cable Loss

Hopping mode

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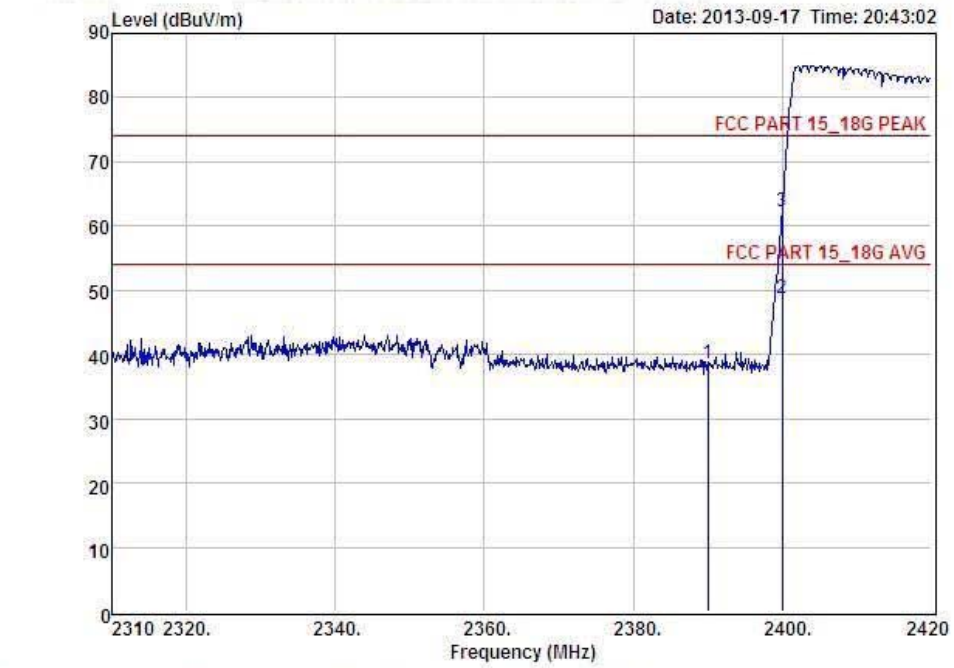

Condition : FCC PART 15_18G PEAK 3m POL: HORIZONTAL
EUT : Tablet pc
Model No : CPITP101
Test Mode : GFSK TX Hopping
Power : DC 5V Supply by AC 120V/60Hz adapter
Test Engineer : Anna
Remark :
Temp :
Hum :

Item	Freq	Read Level	Antenna Factor	Preamp Factor	Cable Loss	Level	Limit	Margin	Remark
	MHz	dBuV	dB	dB	dB	dBuV	dBuV	dBuV	
1	2390.00	42.06	27.62	34.97	3.92	38.63	74.00	-35.37	Peak
2	2400.00	52.18	27.62	34.97	3.94	48.77	54.00	-5.23	Average
3	2400.00	65.74	27.62	34.97	3.94	62.33	74.00	-11.67	Peak

Remark: Level = Read Level + Antenna Factor - Preamp Factor + Cable Loss

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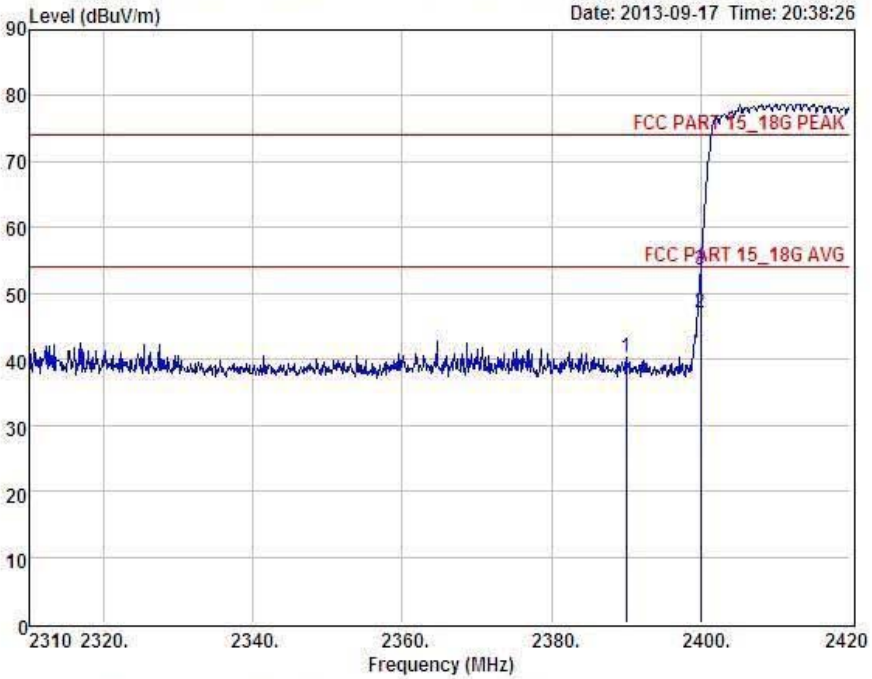

Condition : FCC PART 15_18G PEAK 3m POL: VERTICAL
EUT : Tablet pc
Model No : CPITP101
Test Mode : GFSK TX Hopping
Power : DC 5V Supply by AC 120V/60Hz adapter
Test Engineer : Anna
Remark :
Temp :
Hum :

Item	Freq	Read Level	Antenna Factor	Preamp Factor	Cable Loss	Level	Limit	Margin	Remark
	MHz	dBuV	dB	dB	dB	dBuV	dBuV	dBuV	
1	2390.00	43.67	27.62	34.97	3.92	40.24	74.00	-33.76	Peak
2	2400.00	50.47	27.62	34.97	3.94	47.06	54.00	-6.94	Average
3	2400.00	56.99	27.62	34.97	3.94	53.58	74.00	-20.42	Peak

Remark: Level = Read Level + Antenna Factor - Preamp Factor + Cable Loss

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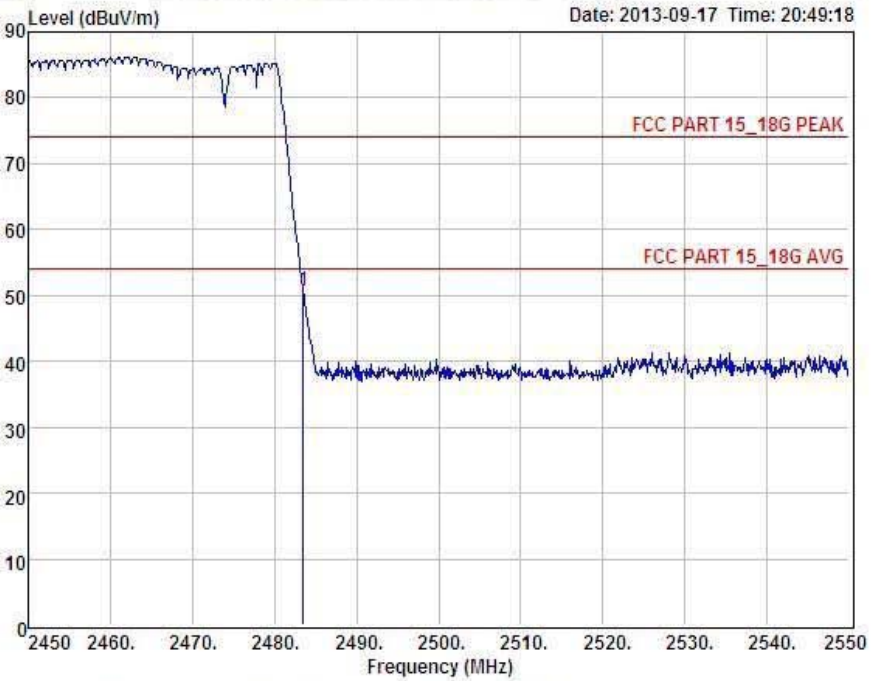

Condition : FCC PART 15_18G PEAK 3m POL: HORIZONTAL
EUT : Tablet pc
Model No : CPITP101
Test Mode : GFSK TX Hopping
Power : DC 5V Supply by AC 120V/60Hz adapter
Test Engineer : Anna
Remark :
Temp :
Hum :

Item	Freq	Read Level	Antenna Factor	Preamp Factor	Cable Loss	Level	Limit	Margin	Remark
	MHz	dBuV	dB	dB	dB	dBuV	dBuV	dBuV	
1	2483.50	54.00	27.59	34.97	4.00	50.62	74.00	-23.38	Peak

Remark: Level = Read Level + Antenna Factor - Preamp Factor + Cable Loss

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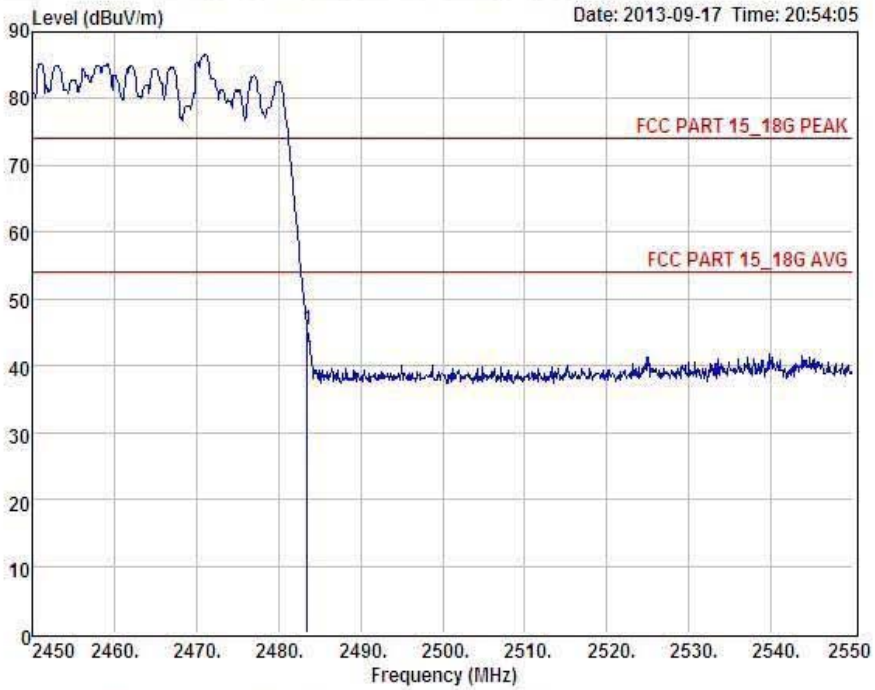

Condition : FCC PART 15_18G PEAK 3m POL: VERTICAL
EUT : Tablet pc
Model No : CPITP101
Test Mode : GFSK TX Hopping
Power : DC 5V Supply by AC 120V/60Hz adapter
Test Engineer : Anna
Remark :
Temp :
Hum :

Item	Freq	Read Level	Antenna Factor	Preamp Factor	Cable Loss	Level	Limit	Margin	Remark
	MHz	dBuV	dB	dB	dB	dBuV	dBuV	dBuV	
1	2483.50	48.75	27.59	34.97	4.00	45.37	74.00	-28.63	Peak

Remark: Level = Read Level + Antenna Factor - Preamp Factor + Cable Loss

8-DPSK

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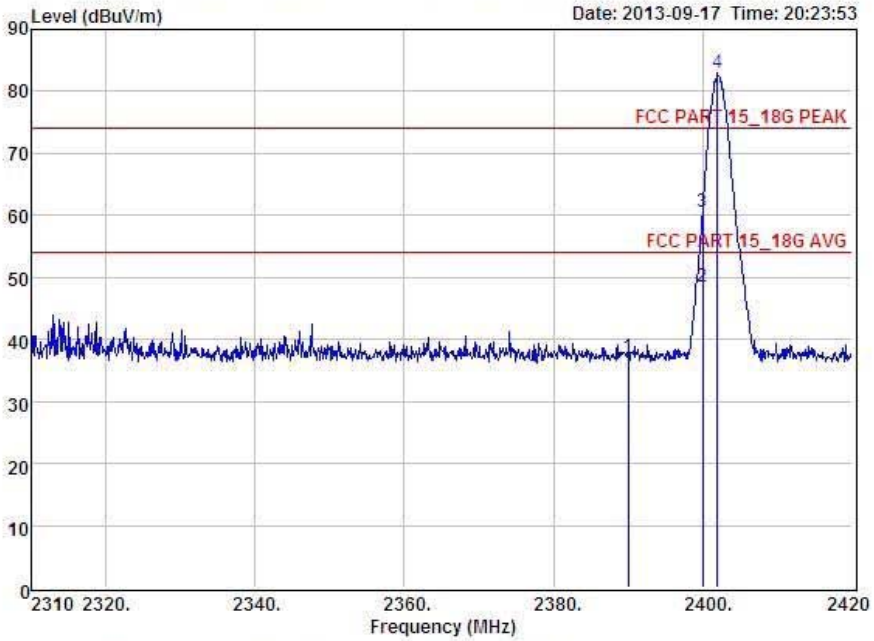


```
Condition      : FCC PART 15_18G PEAK 3m       POL: HORIZONTAL
EUT            : Tablet pc
Model No       : CPITP101
Test Mode      : DPSK TX 2402MHz
Power          : DC 5V Supply by AC 120V/60Hz adapter
Test Engineer  : Anna
Remark         :
Temp           :
Hum            :
```

Item	Freq	Read Level	Antenna Factor	Preamp Factor	Cable Loss	Level	Limit	Margin	Remark
	MHz	dBuV	dB	dB	dB	dBuV	dBuV	dBuV	
1	2390.00	40.48	27.62	34.97	3.92	37.05	74.00	-36.95	Peak
2	2400.00	51.85	27.62	34.97	3.94	48.44	54.00	-5.56	Average
3	2400.00	63.95	27.62	34.97	3.94	60.54	74.00	-13.46	Peak
4	2402.00	86.29	27.62	34.97	3.94	82.88	74.00	8.88	Peak

Remark: Level = Read Level + Antenna Factor - Preamp Factor + Cable Loss

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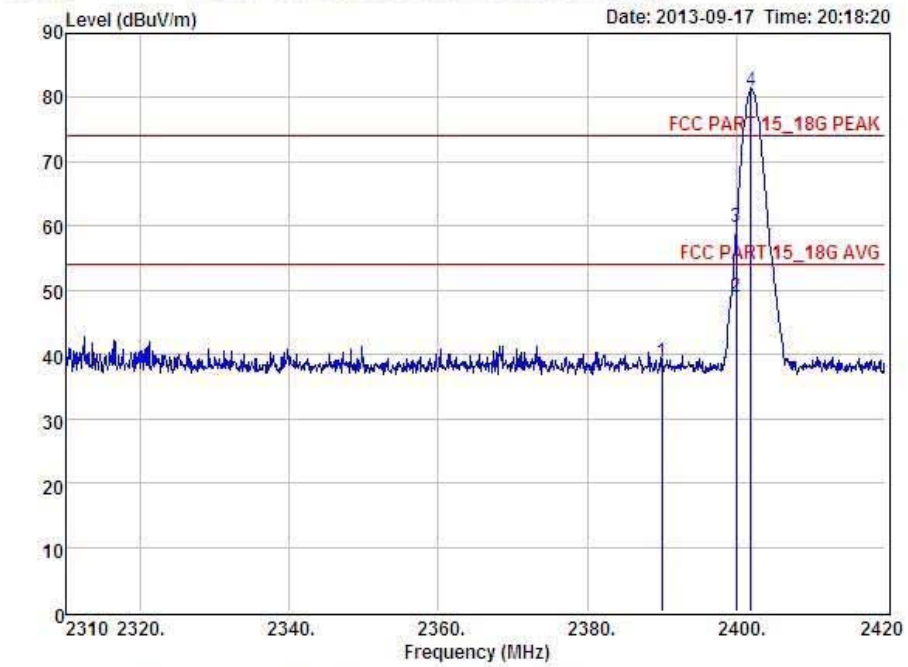

Condition : FCC PART 15_18G PEAK 3m POL: VERTICAL
EUT : Tablet pc
Model No : CPITP101
Test Mode : DPSK TX 2402MHz
Power : DC 5V Supply by AC 120V/60Hz adapter
Test Engineer : Anna
Remark :
Temp :
Hum :

Item	Freq	Read Level	Antenna Factor	Preamp Factor	Cable Loss	Level	Limit	Margin	Remark
	MHz	dBuV	dB	dB	dB	dBuV	dBuV	dBuV	
1	2390.00	42.28	27.62	34.97	3.92	38.85	74.00	-35.15	Peak
2	2400.00	52.47	27.62	34.97	3.94	49.06	54.00	-4.94	Average
3	2400.00	63.26	27.62	34.97	3.94	59.85	74.00	-14.15	Peak
4	2402.00	84.47	27.62	34.97	3.94	81.06	74.00	7.06	Peak

Remark: Level = Read Level + Antenna Factor - Preamp Factor + Cable Loss

CH High :

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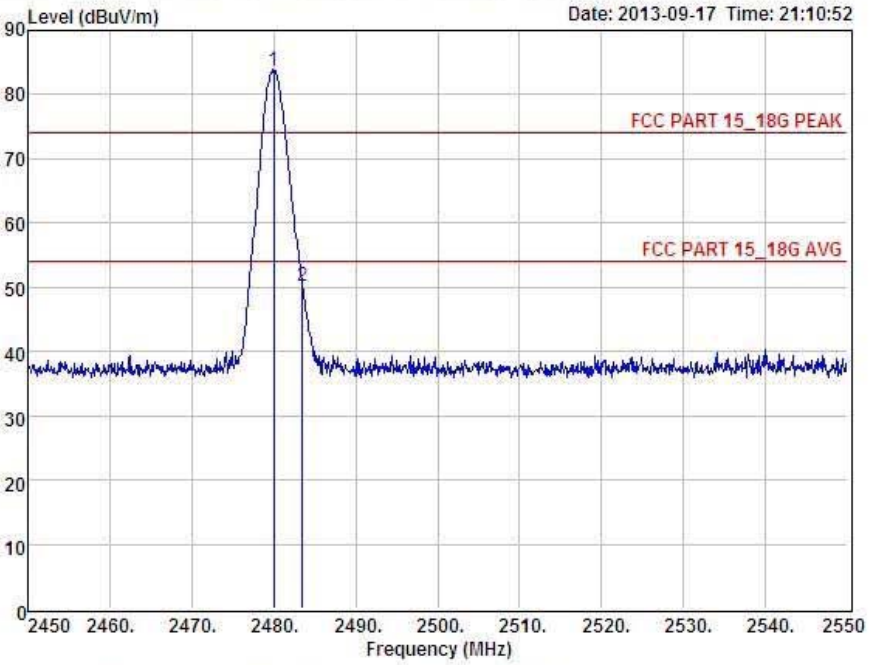

Condition : FCC PART 15_18G PEAK 3m POL: HORIZONTAL
EUT : Tablet pc
Model No : CPITP101
Test Mode : DPSK TX 2480MHz
Power : DC 5V Supply by AC 120V/60Hz adapter
Test Engineer : Anna
Remark :
Temp :
Hum :

Item	Freq	Read Level	Antenna Factor	Preamp Factor	Cable Loss	Level	Limit	Margin	Remark
	MHz	dBuV	dB	dB	dB	dBuV	dBuV	dBuV	
1	2480.00	87.23	27.59	34.97	4.00	83.85	74.00	9.85	Peak
2	2483.50	53.68	27.59	34.97	4.00	50.30	74.00	-23.70	Peak

Remark: Level = Read Level + Antenna Factor - Preamp Factor + Cable Loss

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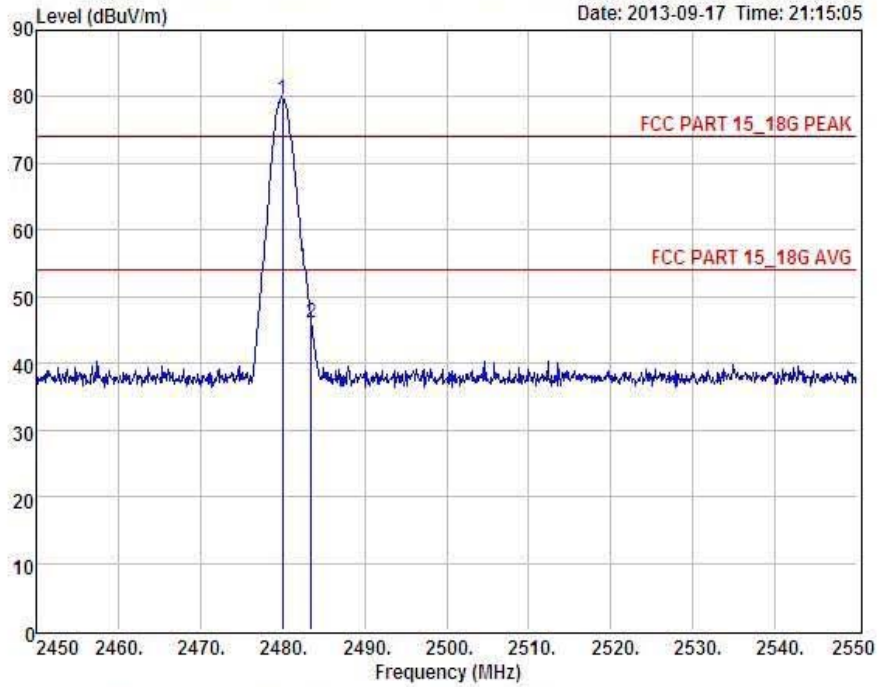

Condition : FCC PART 15_18G PEAK 3m POL: VERTICAL
EUT : Tablet pc
Model No : CPITP101
Test Mode : DPSK TX 2480MHz
Power : DC 5V Supply by AC 120V/60Hz adapter
Test Engineer : Anna
Remark :
Temp :
Hum :

Item	Freq	Read Level	Antenna Factor	Preamp Factor	Cable Loss	Level	Limit	Margin	Remark
	MHz	dBuV	dB	dB	dB	dBuV	dBuV	dBuV	
1	2480.00	82.92	27.59	34.97	4.00	79.54	74.00	5.54	Peak
2	2483.50	49.45	27.59	34.97	4.00	46.07	74.00	-27.93	Peak

Remark: Level = Read Level + Antenna Factor - Preamp Factor + Cable Loss

Hopping mode:

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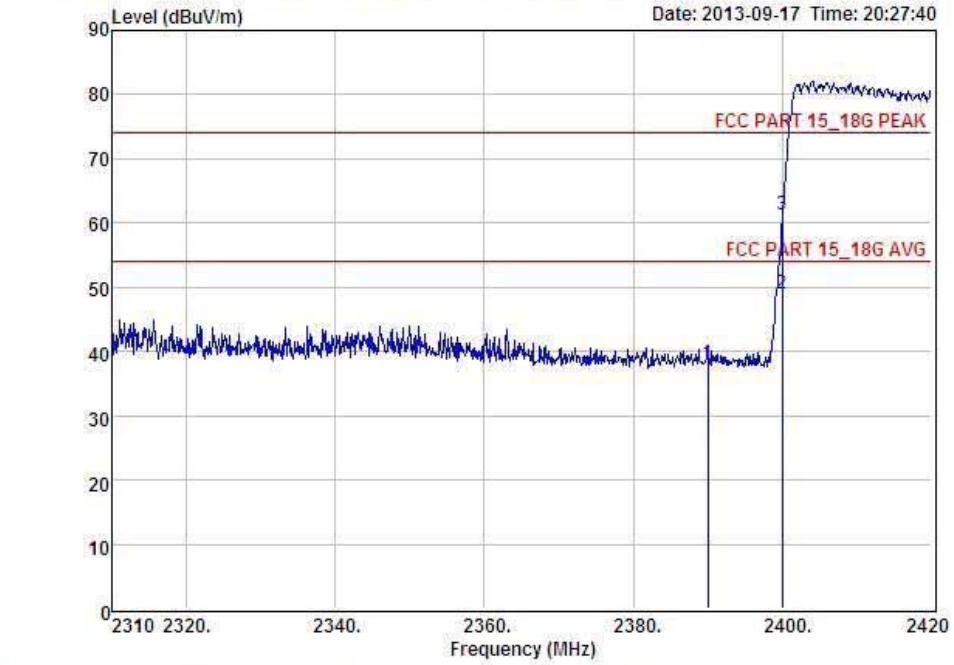
Website: http://www.cessz.com Email: Service@cessz.com



Condition : FCC PART 15_18G PEAK 3m POL: HORIZONTAL
EUT : Tablet pc
Model No : CPITP101
Test Mode : DPSK TX Hopping
Power : DC 5V Supply by AC 120V/60Hz adapter
Test Engineer : Anna
Remark :
Temp :
Hum :

Item	Freq	Read Level	Antenna Factor	Preamp Factor	Cable Loss	Level	Limit	Margin	Remark
	MHz	dBuV	dB	dB	dB	dBuV	dBuV	dBuV	
1	2390.00	41.60	27.62	34.97	3.92	38.17	74.00	-35.83	Peak
2	2400.00	52.37	27.62	34.97	3.94	48.96	54.00	-5.04	Average
3	2400.00	64.59	27.62	34.97	3.94	61.18	74.00	-12.82	Peak

Remark: Level = Read Level + Antenna Factor - Preamp Factor + Cable Loss

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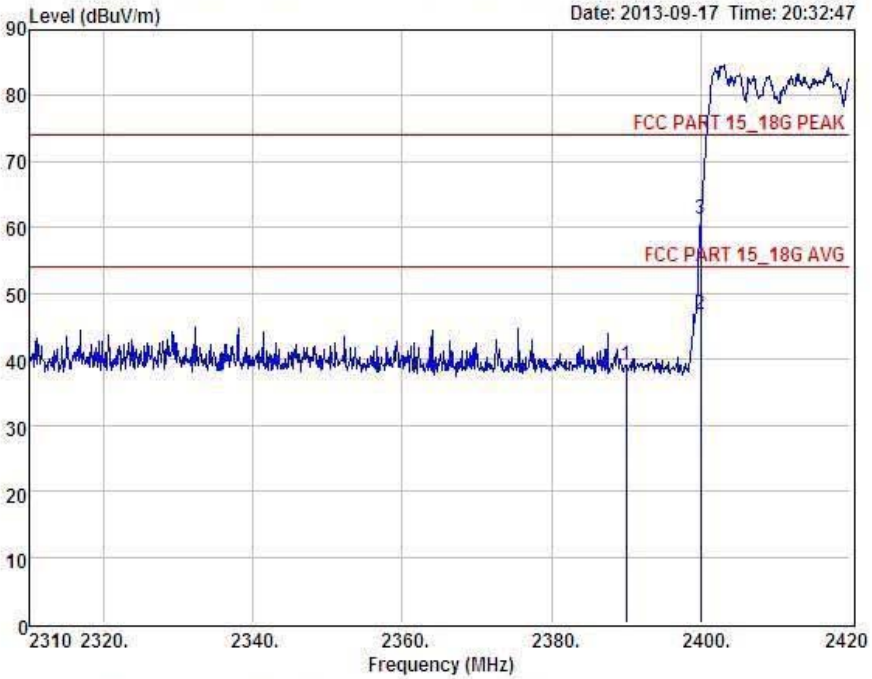

Condition : FCC PART 15_18G PEAK 3m POL: VERTICAL
EUT : Tablet pc
Model No : CPITP101
Test Mode : DPSK TX Hopping
Power : DC 5V Supply by AC 120V/60Hz adapter
Test Engineer : Anna
Remark :
Temp :
Hum :

Item	Freq	Read Level	Antenna Factor	Preamp Factor	Cable Loss	Level	Limit	Margin	Remark
	MHz	dBuV	dB	dB	dB	dBuV	dBuV	dBuV	
1	2390.00	42.54	27.62	34.97	3.92	39.11	74.00	-34.89	Peak
2	2400.00	50.16	27.62	34.97	3.94	46.75	54.00	-7.25	Average
3	2400.00	64.61	27.62	34.97	3.94	61.20	74.00	-12.80	Peak

Remark: Level = Read Level + Antenna Factor - Preamp Factor + Cable Loss

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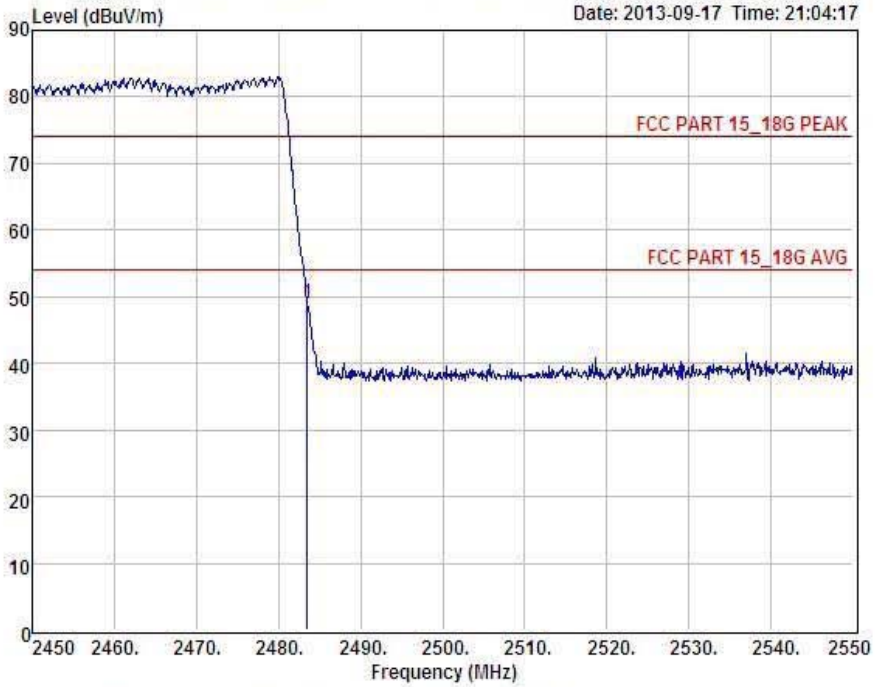

Condition : FCC PART 15_18G PEAK 3m POL: HORIZONTAL
EUT : Tablet pc
Model No : CPITP101
Test Mode : DPSK TX Hopping
Power : DC 5V Supply by AC 120V/60Hz adapter
Test Engineer : Anna
Remark :
Temp :
Hum :

Item	Freq	Read Level	Antenna Factor	Preamp Factor	Cable Loss	Level	Limit	Margin	Remark
	MHz	dBuV	dB	dB	dB	dBuV	dBuV	dBuV	
1	2483.50	52.37	27.59	34.97	4.00	48.99	74.00	-25.01	Peak

Remark: Level = Read Level + Antenna Factor - Preamp Factor + Cable Loss

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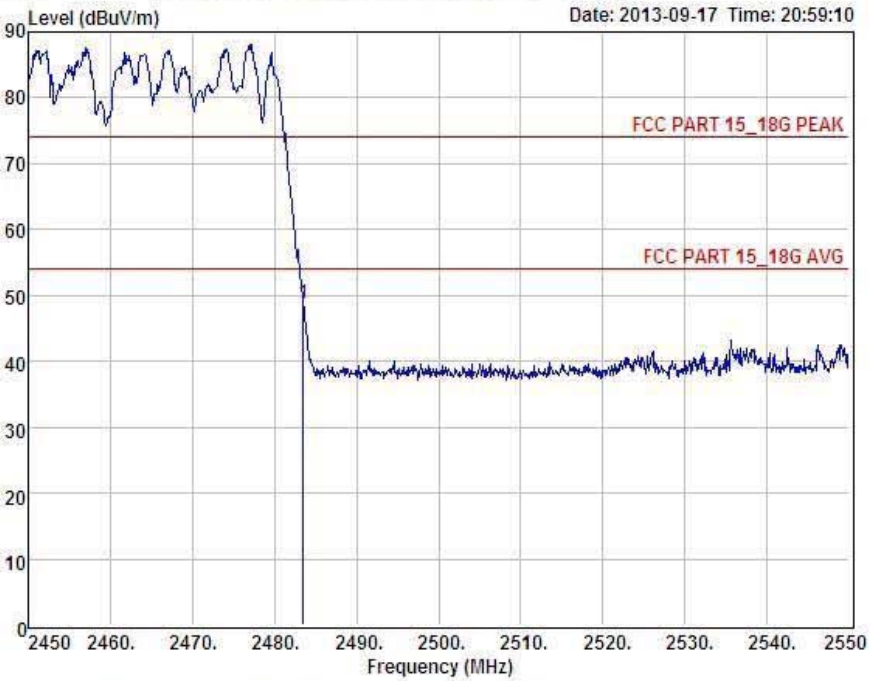


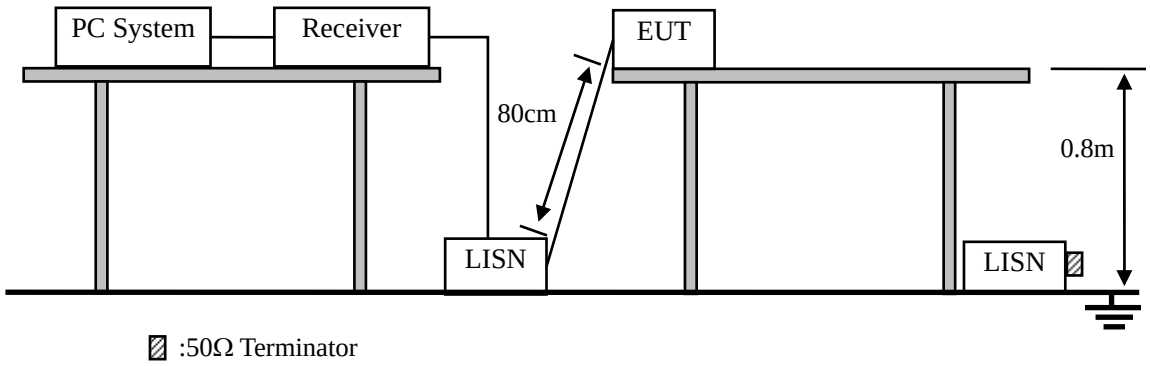
Condition : FCC PART 15_18G PEAK 3m POL: VERTICAL
EUT : Tablet pc
Model No : CPITP101
Test Mode : DPSK TX Hopping
Power : DC 5V Supply by AC 120V/60Hz adapter
Test Engineer : Anna
Remark :
Temp :
Hum :

Item	Freq	Read Level	Antenna Factor	Preamp Factor	Cable Loss	Level	Limit	Margin	Remark
	MHz	dBuV	dB	dB	dB	dBuV	dBuV	dBuV	
1	2483.50	52.23	27.59	34.97	4.00	48.85	74.00	-25.15	Peak

Remark: Level = Read Level + Antenna Factor - Preamp Factor + Cable Loss

10. Power Line Conducted Emissions

10.1. Block Diagram of Test Setup



10.2. Limit

Frequency	Maximum RF Line Voltage	
	Quasi-Peak Level dB(μV)	Average Level dB(μV)
150kHz ~ 500kHz	66 ~ 56*	56 ~ 46*
500kHz ~ 5MHz	56	46
5MHz ~ 30MHz	60	50

Notes: 1. * Decreasing linearly with logarithm of frequency.
2. The lower limit shall apply at the transition frequencies.

10.3. Test Procedure

(1) The EUT was placed on a non-metallic table, 80cm above the ground plane.
(2) Setup the EUT and simulator as shown in 10.1
(3) The EUT Power connected to the power mains through a power adapter and a line impedance stabilization network (L.I.S.N1). The other peripheral devices power cord connected to the power mains through a line impedance stabilization network (L.I.S.N2), this provided a 50-ohm coupling impedance for the EUT (Please refer to the block diagram of the test setup and photographs). Both sides of power line were checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipments and all of the interface cables were changed according to ANSI C63.4 2003 on conducted Emission test.
(4) The bandwidth of test receiver is set at 10KHz.
(5) The frequency range from 150 KHz to 30MHz is checked.

10.4. Test Result

PASS. (See below detailed test data)

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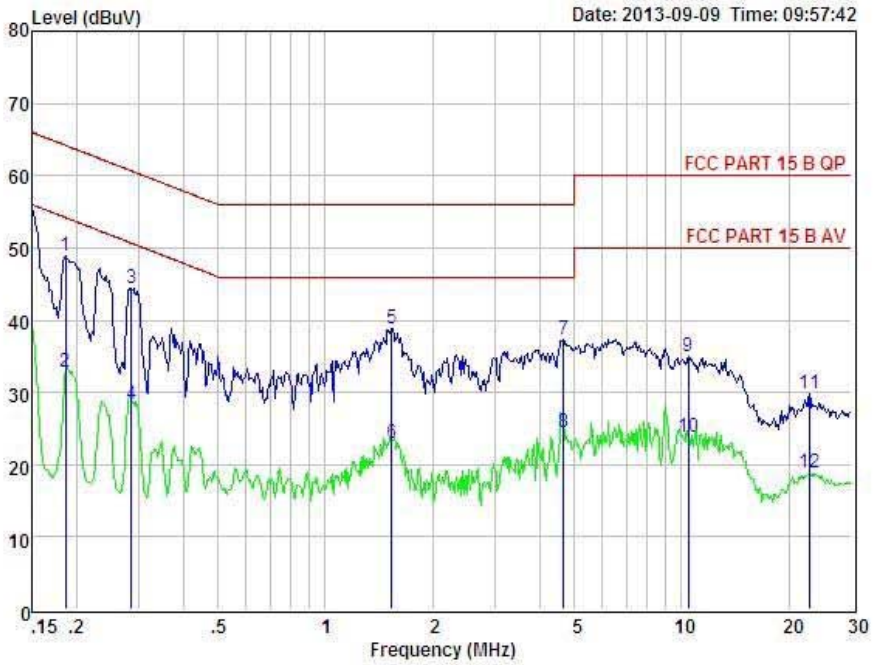

Condition : FCC PART 15 B QP POL: LINE Temp:24 ℃ Hum:56 %
EUT : Tablet pc
Model No : CPITP101
Test Mode : Charging
Power : DC 5V Supply by AC 120V/60Hz adapter
Test Engineer: Store
Remark :

Item	Freq	Read	LISN Factor	Preamp Factor	Cable Lose	Level	Limit	Margin	Remark
	MHz	dBuV	dB	dB	dB	dBuV	dBuV	dBuV	
1	0.186	48.70	0.03	0.00	0.10	48.83	64.20	-15.37	QP
2	0.186	32.70	0.03	0.00	0.10	32.83	54.20	-21.37	Average
3	0.285	44.20	0.03	0.00	0.10	44.33	60.68	-16.35	QP
4	0.285	28.20	0.03	0.00	0.10	28.33	50.68	-22.35	Average
5	1.535	38.70	0.05	0.00	0.10	38.85	56.00	-17.15	QP
6	1.535	22.70	0.05	0.00	0.10	22.85	46.00	-23.15	Average
7	4.672	37.20	0.09	0.00	0.12	37.41	56.00	-18.59	QP
8	4.672	24.20	0.09	0.00	0.12	24.41	46.00	-21.59	Average
9	10.452	34.46	0.20	0.00	0.21	34.87	60.00	-25.13	QP
10	10.452	23.46	0.20	0.00	0.21	23.87	50.00	-26.13	Average
11	22.896	28.94	0.42	0.00	0.43	29.79	60.00	-30.21	QP
12	22.896	17.94	0.42	0.00	0.43	18.79	50.00	-31.21	Average

Remarks: Level = Read + LISN Factor - Preamp Factor + Cable loss

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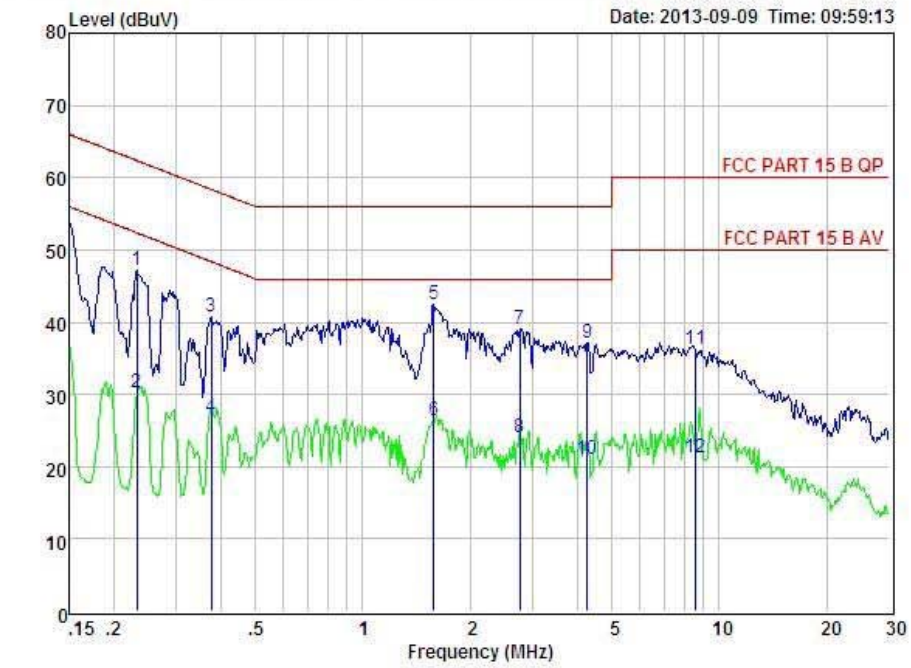


Condition : FCC PART 15 B QP POL: NEUTRAL Temp:24 ℃ Hum:56 %
EUT : Tablet pc
Model No : CPITP101
Test Mode : Charging
Power : DC 5V Supply by AC 120V/60Hz adapter
Test Engineer: Store
Remark :

Item	Freq	Read	LISN Factor	Preamp Factor	Cable Lose	Level	Limit	Margin	Remark
	MHz	dBuV	dB	dB	dB	dBuV	dBuV	dBuV	
1	0.233	47.02	0.03	0.00	0.10	47.15	62.35	-15.20	QP
2	0.233	30.02	0.03	0.00	0.10	30.15	52.35	-22.20	Average
3	0.375	40.62	0.03	0.00	0.10	40.75	58.39	-17.64	QP
4	0.375	26.62	0.03	0.00	0.10	26.75	48.39	-21.64	Average
5	1.585	42.33	0.05	0.00	0.10	42.48	56.00	-13.52	QP
6	1.585	26.33	0.05	0.00	0.10	26.48	46.00	-19.52	Average
7	2.765	38.80	0.07	0.00	0.12	38.99	56.00	-17.01	QP
8	2.765	23.80	0.07	0.00	0.12	23.99	46.00	-22.01	Average
9	4.269	36.91	0.08	0.00	0.12	37.11	56.00	-18.89	QP
10	4.269	20.91	0.08	0.00	0.12	21.11	46.00	-24.89	Average
11	8.546	35.99	0.15	0.00	0.17	36.31	60.00	-23.69	QP
12	8.546	20.99	0.15	0.00	0.17	21.31	50.00	-28.69	Average

Remarks: Level = Read + LISN Factor - Preamp Factor + Cable loss

Note: If QP Result comply with AV limit, AV Result is deemed to comply with AV limit

11. Antenna Requirements

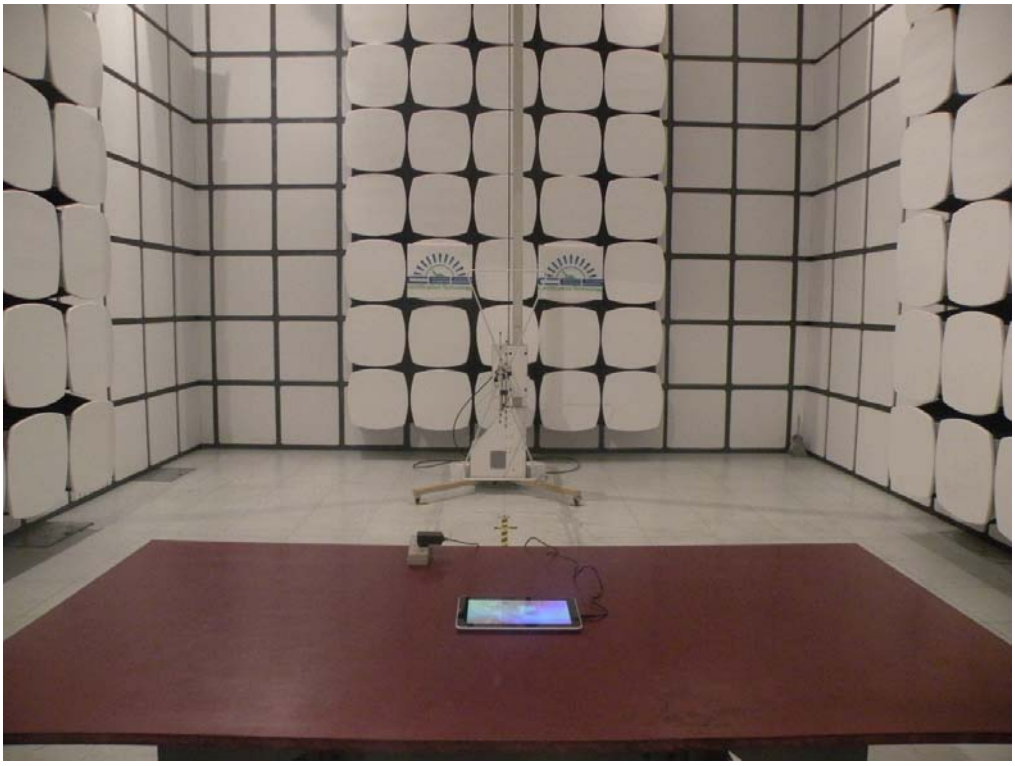
11.1. Limit

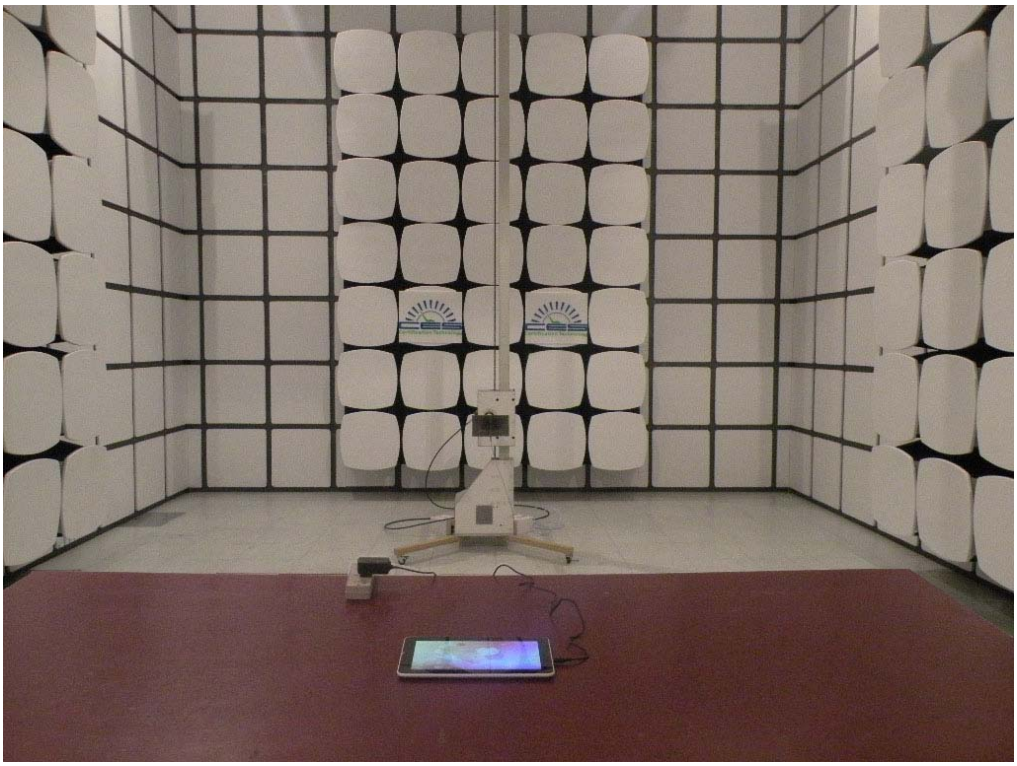
For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. And according to FCC 47 CFR Section 15.247 (b), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

11.2. Result

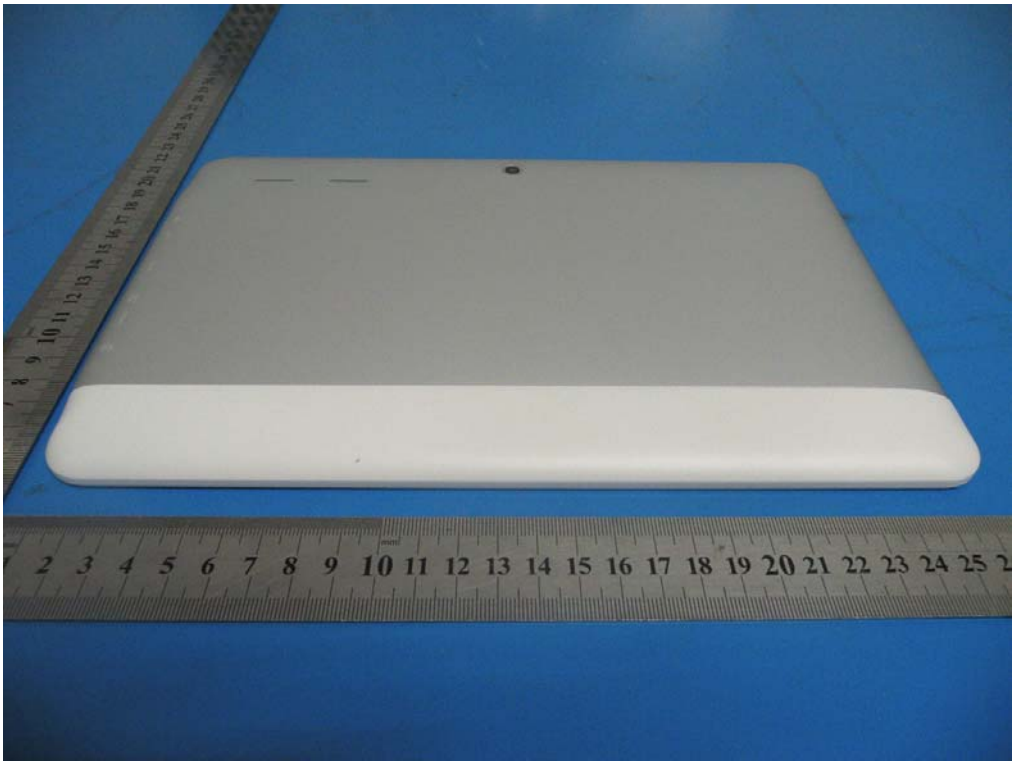
The antennas used for this product are Integral Antenna and that no antenna other than that furnished by the responsible party shall be used with the device, the maximum peak gain of the transmit antenna is only 2dBi.

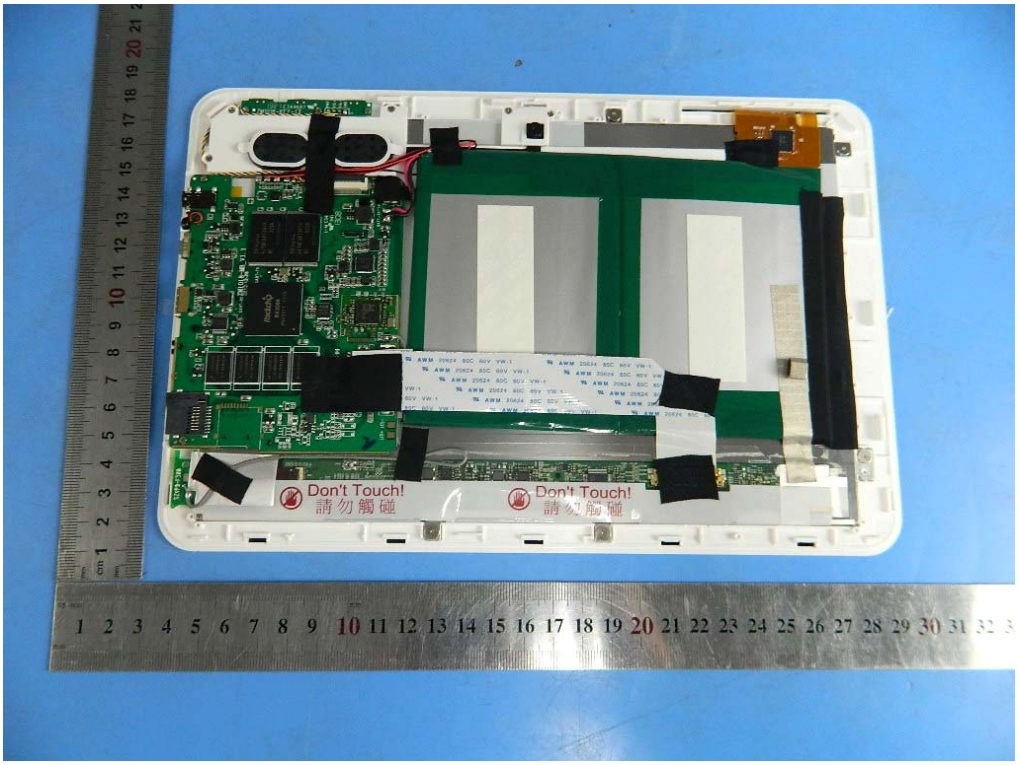
12. Test setup photo





13. Photos of EUT

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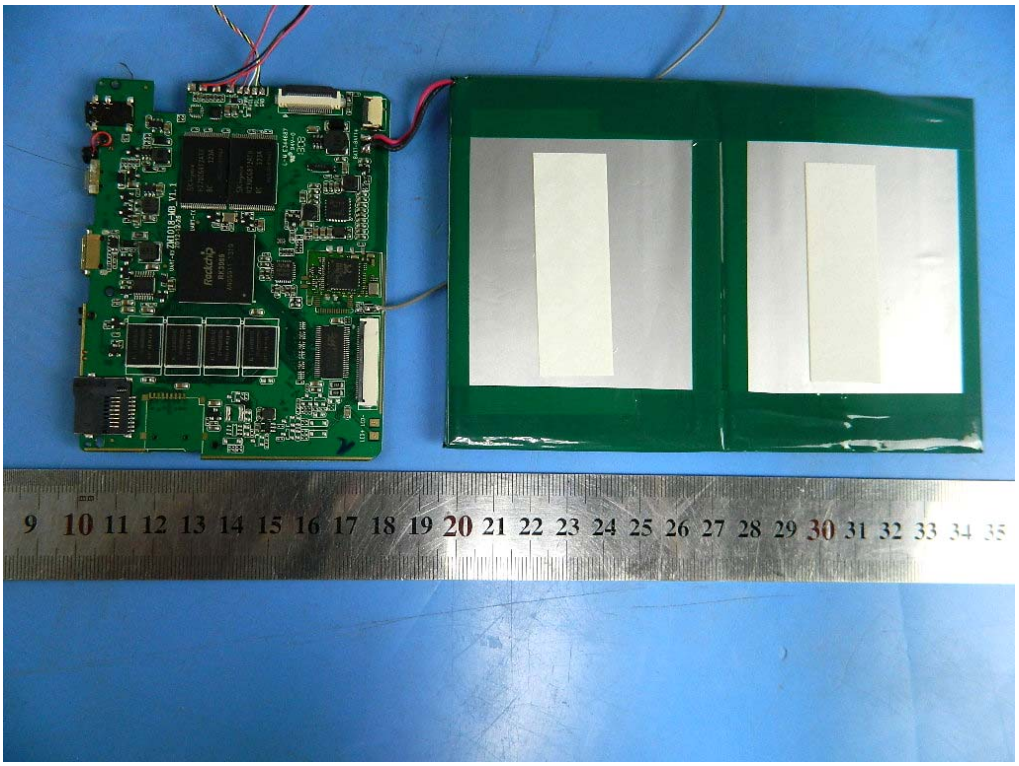
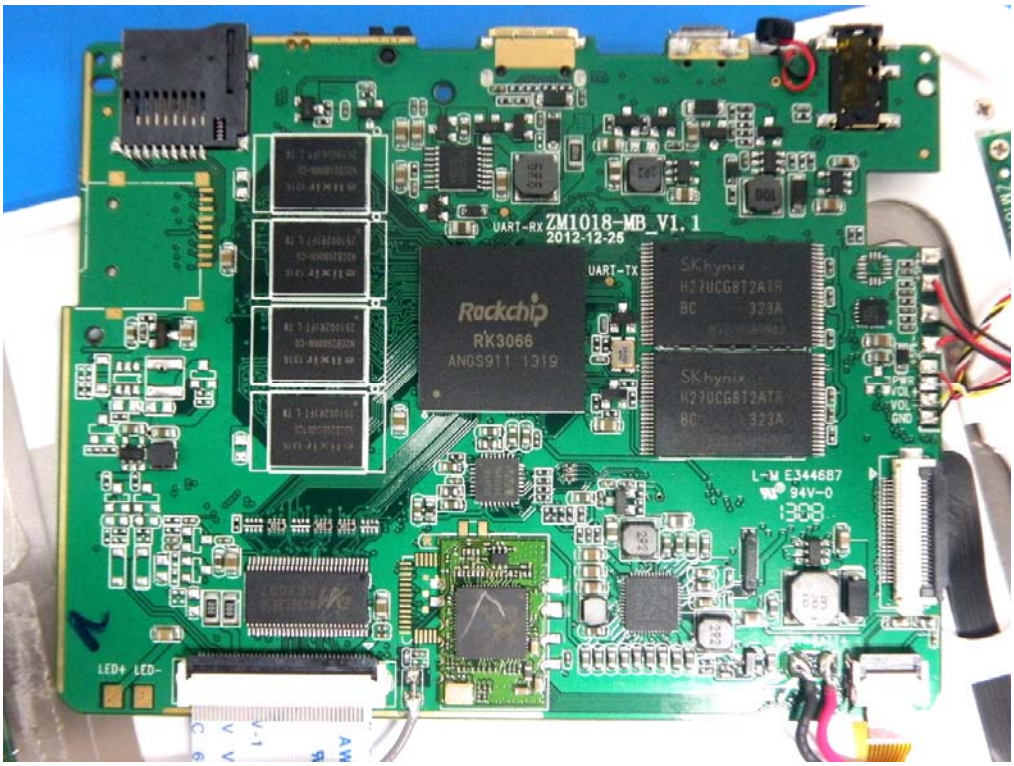
請勿觸碰
Don't Touch!
請勿觸碰

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2012-12-25
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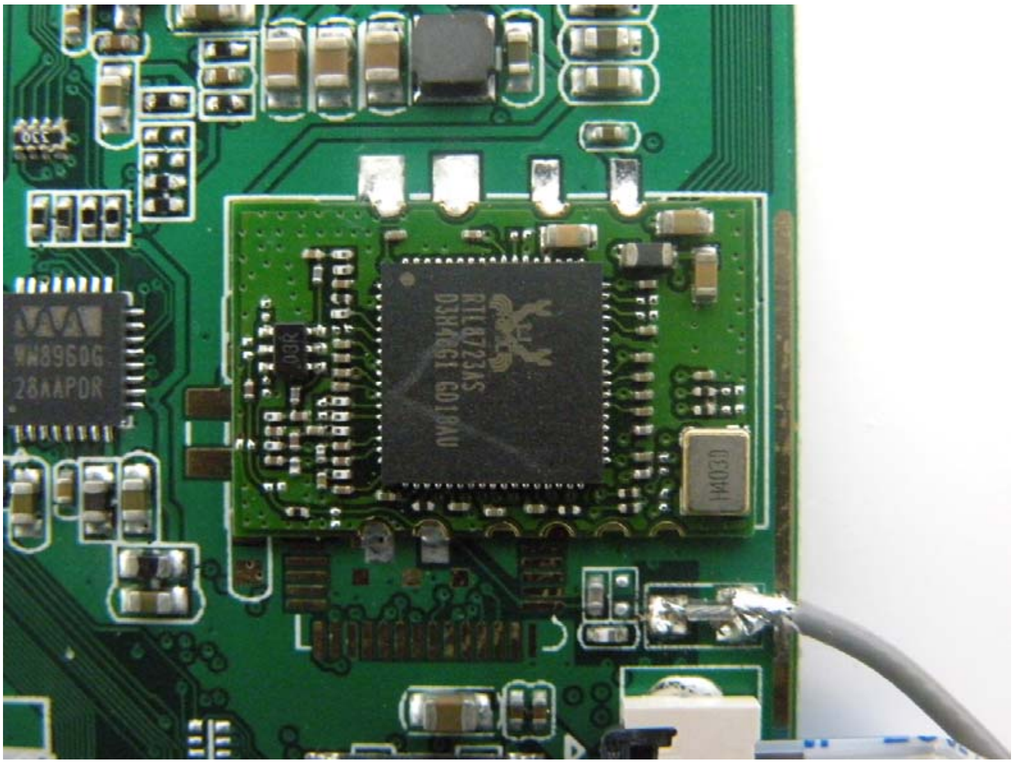
SKhynix
LED+ LED-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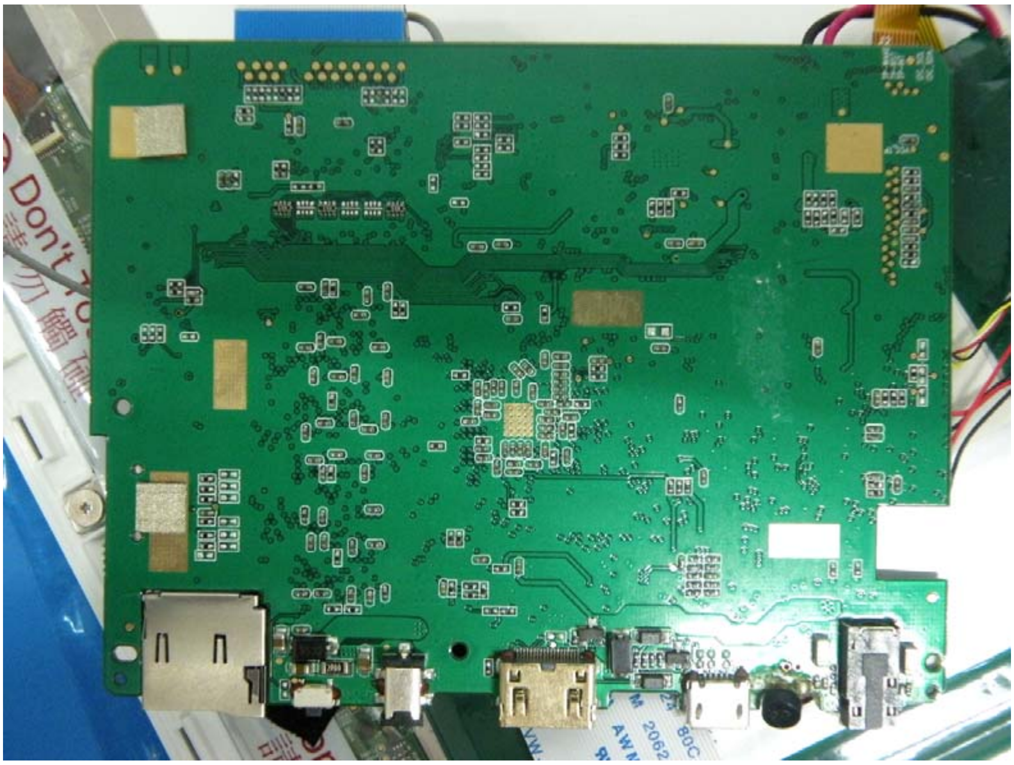

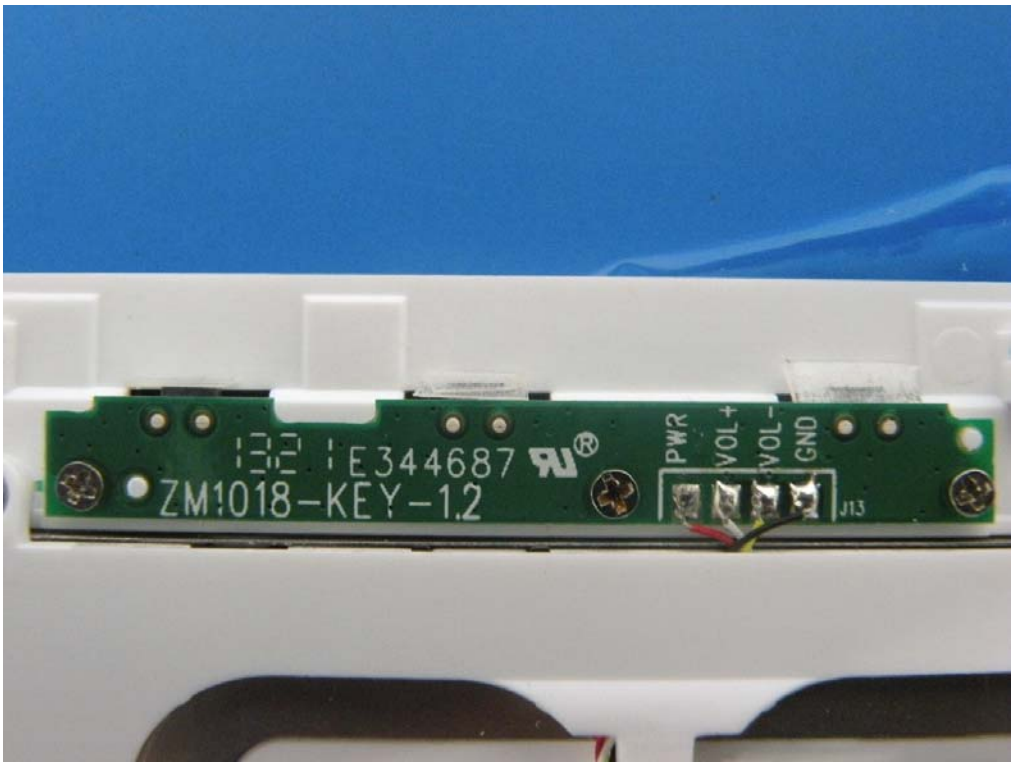
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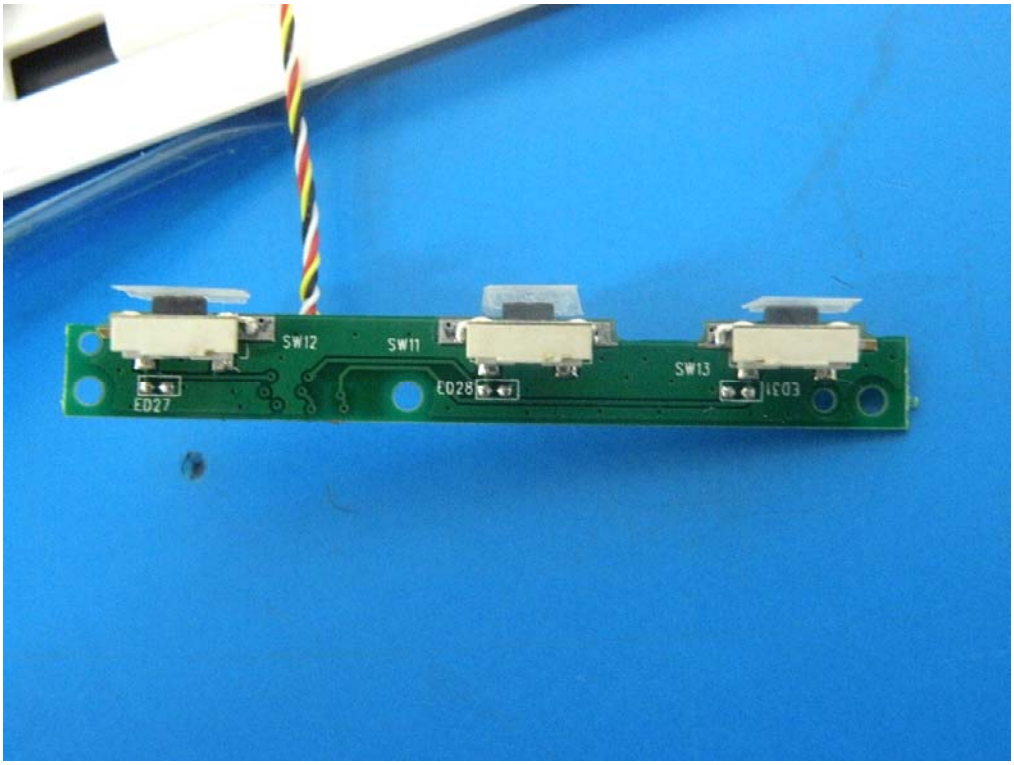
VOL-
GND
J13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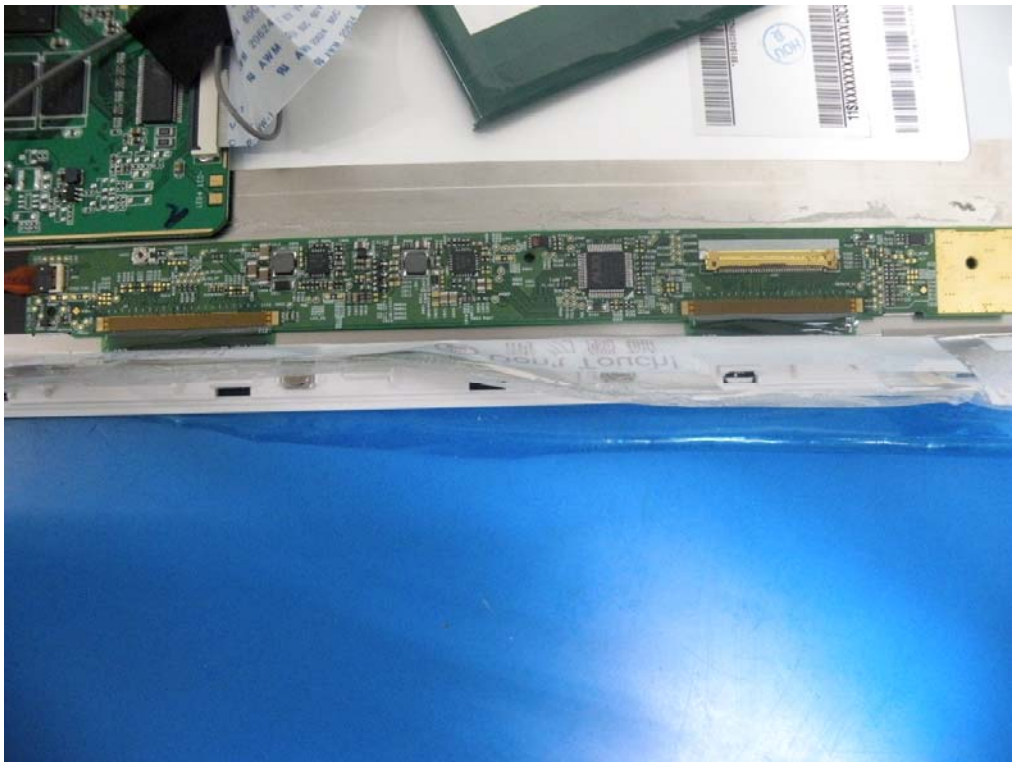
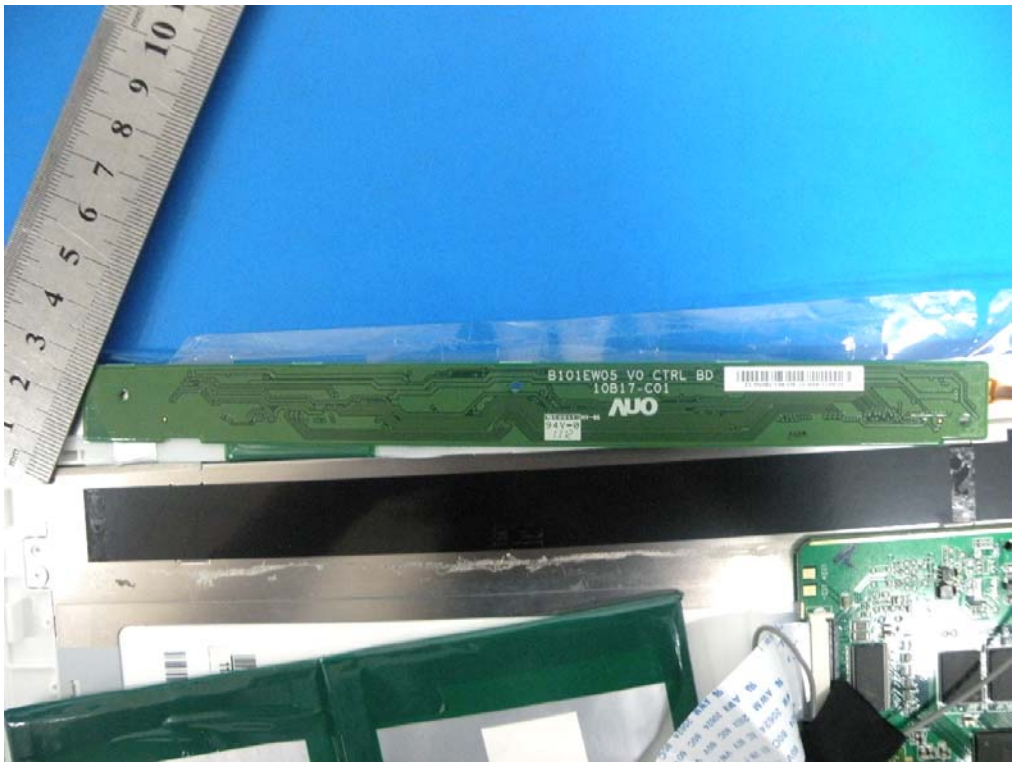
SW13
ED27
ED28




B101EW05 V0 CTRL BD
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END OF THE REPORT