

ACCURATE TECHNOLOGY CO., LTD.

F1,Bldg,A,Changyuan New Material Port Keyuan Rd, Science & Industry Park,Nanshan Shenzhen,P.R.China Site: 1# Chamber Tel:+86-0755-26503290 Fax:+86-0755-26503396

Report No.: ATE20142590

Page 81 of 113

Job No.: STAR2014 #2131 Polarization: Vertical

Standard: FCC Class B 3M Radiated Power Source: AC 120V/60Hz

Date: 14/12/29/ Time: 10/26/19 Engineer Signature:

EUT: YOTV Engineer Signat

Mode: TX Channel 1(802.11b) Distance: 3m

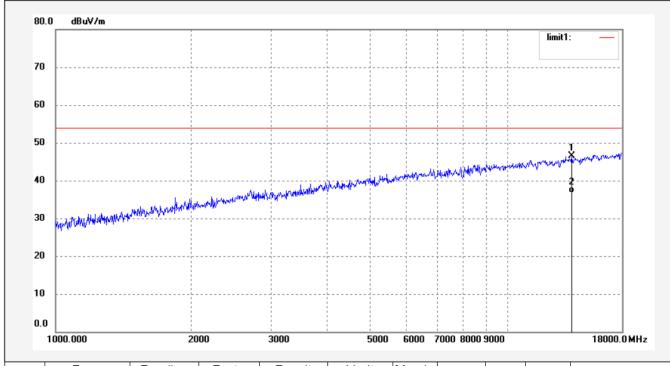
Model: U001

Manufacturer: COTIS

Test item: Radiation Test

Note: Report No.:ATE20142590

Temp.(C)/Hum.(%) 25 C / 55 %



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	13932.525	34.94	11.47	46.41	74.00	-27.59	peak			
2	13932.525	25.14	11.47	36.61	54.00	-17.39	peak			



Site: 2# Chamber

Tel:+86-0755-26503290

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Page 82 of 113



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F1,Bldg,A,Changyuan New Material Port Keyuan Rd, Science & Industry Park,Nanshan Shenzhen,P.R.China

Polarization: Vertical

Power Source: AC 120V/60Hz

Date: 2014-12-27 Time: 3:34:37

Engineer Signature:
Distance: 3m

Job No.: star2014 #1129

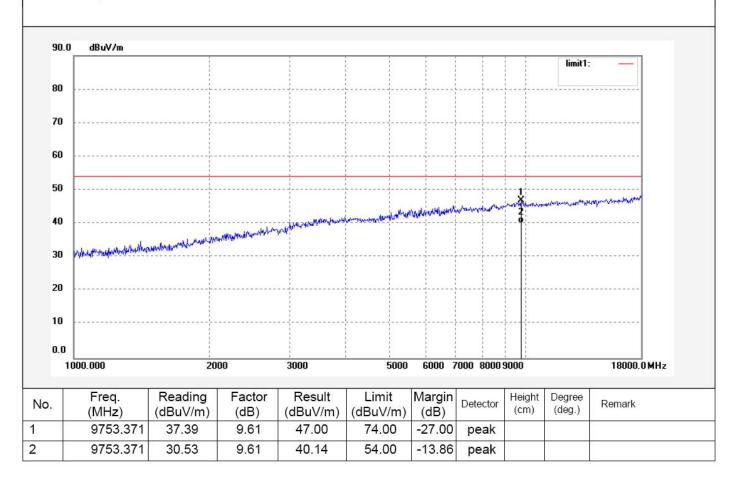
Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 % EUT: TuppTV Media Player Mode: TX Channel 1(802.11b)

Model: Y001

Manufacturer: YuppTV





Site: 1# Chamber Tel:+86-0755-26503290

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Page 83 of 113



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> Polarization: Horizontal

Power Source: AC 120V/60Hz

Date: 14/12/29/ Time: 10/35/20 Engineer Signature:

Distance:

Job No.: STAR2014 #2133

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

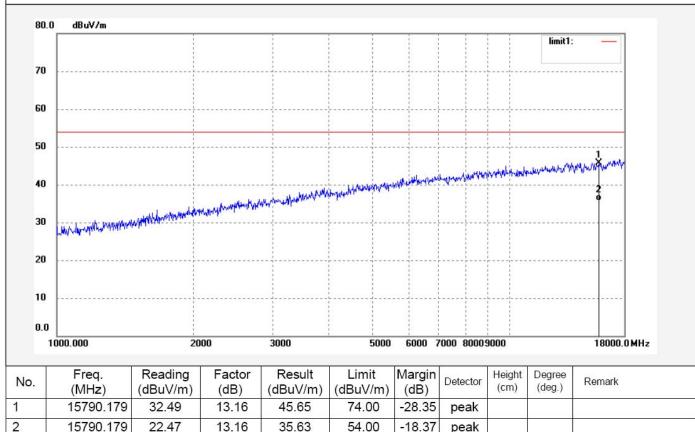
Temp.(C)/Hum.(%) 25 C / 55 %

EUT: YOTV

Mode: TX Channel 6(802.11b)

Model: U001

Manufacturer: COTIS



١	No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)		Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark	
1		15790.179	32.49	13.16	45.65	74.00	-28.35	peak				
2		15790.179	22.47	13.16	35.63	54.00	-18.37	peak				



Page 84 of 113

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> Polarization: Vertical

Power Source: AC 120V/60Hz

Date: 14/12/29/ Time: 10/40/34 Engineer Signature:

Distance: 3m

Job No.: STAR2014 #2134

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

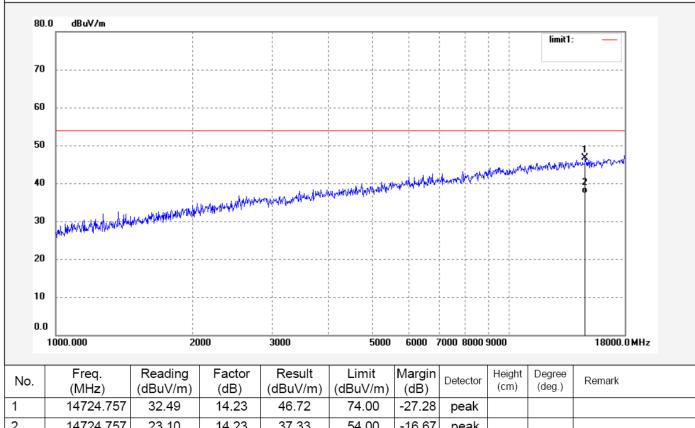
Temp.(C)/Hum.(%) 25 C / 55 %

EUT: YOTV

Mode: TX Channel 6(802.11b)

U001 Model: Manufacturer: COTIS

Report No.:ATE20142590 Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark	
1	14724.757	32.49	14.23	46.72	74.00	-27.28	peak				
2	14724.757	23.10	14.23	37.33	54.00	-16.67	peak				



Page 85 of 113

Site: 1# Chamber

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> Polarization: Horizontal

Power Source: AC 120V/60Hz

Date: 14/12/29/ Time: 10/48/21 **Engineer Signature:**

Distance: 3m

Job No.: STAR2014 #2136

Standard: FCC Class B 3M Radiated Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 %

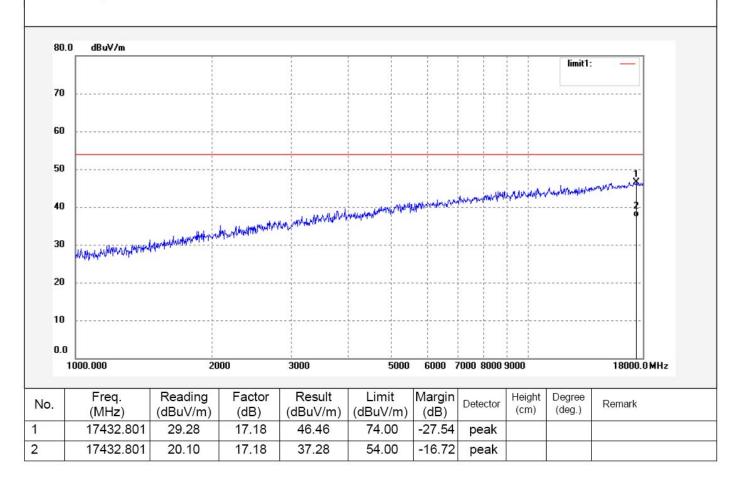
EUT: YOTV

Mode: TX Channel 11(802.11b)

Model: U001

Manufacturer: COTIS

Report No.:ATE20142590 Note:





Report No.: ATE20142590 Page 86 of 113



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Job No.: STAR2014 #2135

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 %

EUT: YOTV

Mode: TX Channel 11(802.11b)

Model: U001

Manufacturer: COTIS

Note: Report No.:ATE20142590

Polarization: Vertical

Power Source: AC 120V/60Hz

Date: 14/12/29/ Time: 10/44/27 Engineer Signature:

Distance: 3m

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60										
50										· · ·
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Report No.: ATE20142590

Page 87 of 113

Job No.: STAR2014 #2137

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 %

EUT: YOTV

Mode: TX Channel 1(802.11g)

Model: U001

Manufacturer: COTIS

Note: Report No.:ATE20142590

Polarization: Horizontal

Power Source: AC 120V/60Hz

Date: 14/12/29/ Time: 10/52/27 Engineer Signature:

Distance: 3m

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70										
60										
50										Į.
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20										
10										
0.0 1	000.000	20	000	3000	5000	6000	7000 80009	9000		18000.0 MHz
			Factor	Result	Limit	Margin		Height	Degree	

54.00

-17.36

peak

2

14219.315

23.74

12.90

36.64



Site: 1# Chamber Tel:+86-0755-26503290 Fax:+86-0755-26503396

Report No.: ATE20142590

Page 88 of 113

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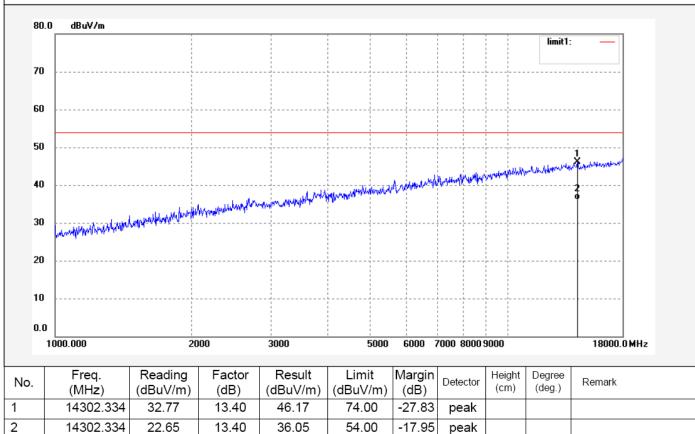
Job No.: STAR2014 #2138 Vertical

Standard: FCC Class B 3M Radiated Power Source: AC 120V/60Hz

Test item: Radiation Test Date: 14/12/29/ Temp.(C)/Hum.(%) 25 C / 55 % Time: 10/55/20 EUT: YOTV Engineer Signature:

TX Channel 1(802.11g) Distance: 3m Mode:

Model: U001 Manufacturer: COTIS



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)		Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark	
1	14302.334	32.77	13.40	46.17	74.00	-27.83	peak				
2	14302.334	22.65	13.40	36.05	54.00	-17.95	peak				



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Report No.: ATE20142590

Page 89 of 113

Job No.: STAR2014 #2140

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 %

EUT: YOTV

Mode: TX Channel 6(802.11g)

Model: U001

Manufacturer: COTIS

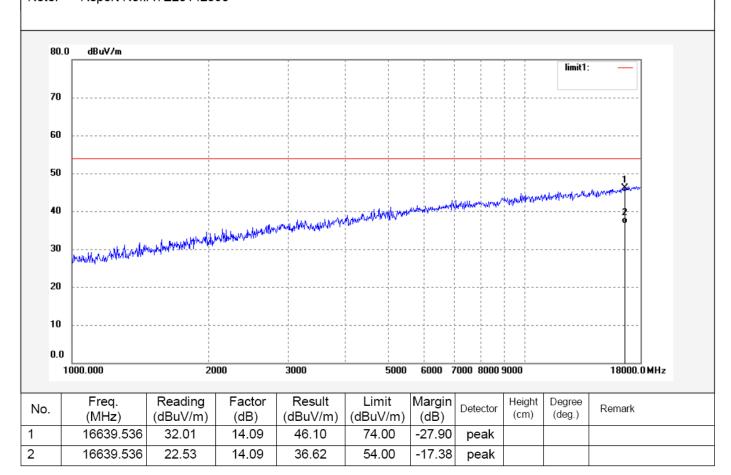
Note: Report No.:ATE20142590

Polarization: Horizontal

Power Source: AC 120V/60Hz

Date: 14/12/29/ Time: 11/03/14 Engineer Signature:

Distance: 3m





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Page 90 of 113

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Vertical

Power Source: AC 120V/60Hz

Date: 14/12/29/ Time: 11/00/21 Engineer Signature:

Distance: 3m

Job No.: STAR2014 #2139

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 %

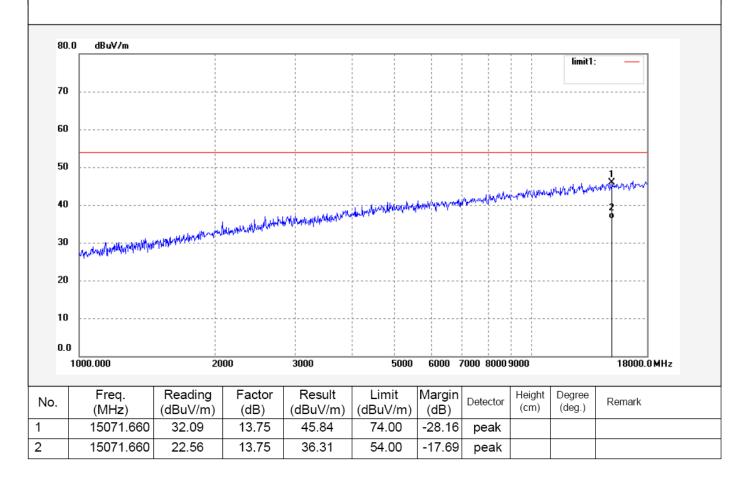
Standard: FCC Class B 3M Radiated

EUT: YOTV

TX Channel 6(802.11g) Mode:

Model: U001

Manufacturer: COTIS





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Site: 1# Chamber Tel:+86-0755-26503290 Fax:+86-0755-26503396

Report No.: ATE20142590

Page 91 of 113

Job No.: STAR2014 #2141 Polarization: Horizontal Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 %

EUT: YOTV

Mode: TX Channel 11(802.11g)

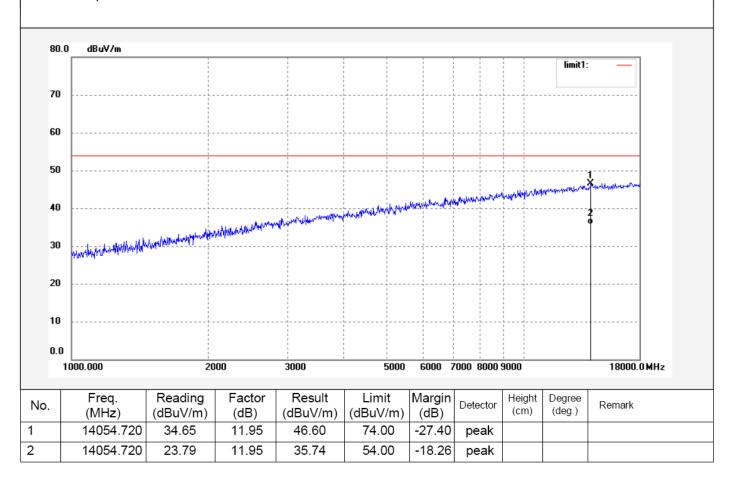
Model:

Manufacturer: COTIS

Note: Report No.:ATE20142590 Power Source: AC 120V/60Hz

Date: 14/12/29/

Time: 11/07/41 Engineer Signature: Distance: 3m





Site: 1# Chamber

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Page 92 of 113



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> Polarization: Vertical

Power Source: AC 120V/60Hz

Date: 14/12/29/ Time: 11/10/02

Distance: 3m

Engineer Signature:

Job No.: STAR2014 #2142

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

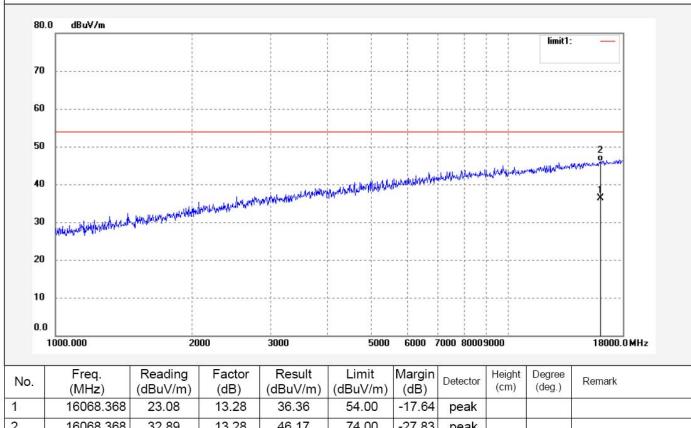
Temp.(C)/Hum.(%) 25 C / 55 %

EUT: YOTV

Mode: TX Channel 11(802.11g)

Model: U001

Manufacturer: COTIS





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Report No.: ATE20142590

Page 93 of 113

Job No.: STAR2014 #2144 Polarization: Horizontal

Standard: FCC Class B 3M Radiated Power Source: AC 120V/60Hz

 Test item:
 Radiation Test
 Date: 14/12/29/

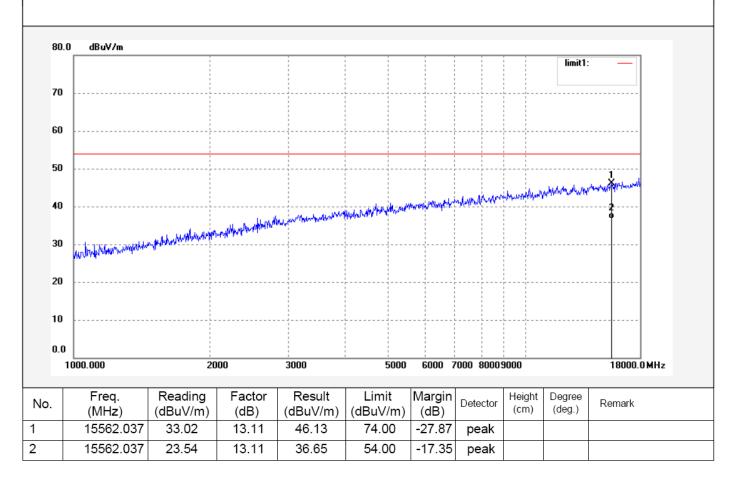
 Temp.(C)/Hum.(%) 25 C / 55 %
 Time: 11/17/34

 EUT:
 YOTV
 Engineer Signature:

Mode: TX Channel 1(802.11n)20MHz Distance: 3m

Model: U001

Manufacturer: COTIS





Site: 1# Chamber

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Page 94 of 113



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> Polarization: Vertical

Power Source: AC 120V/60Hz

Date: 14/12/29/ Time: 11/14/28 **Engineer Signature:**

Distance: 3m

Job No.: STAR2014 #2143

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 %

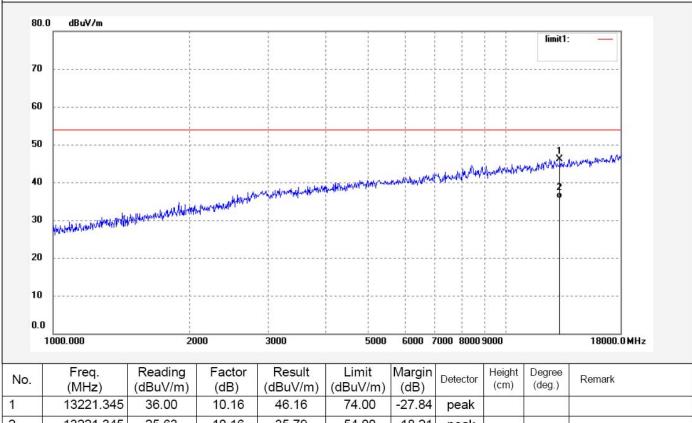
Standard: FCC Class B 3M Radiated

EUT: YOTV

Mode: TX Channel 1(802.11n)20MHz

Model: U001

Manufacturer: COTIS





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Horizontal

Report No.: ATE20142590

Page 95 of 113

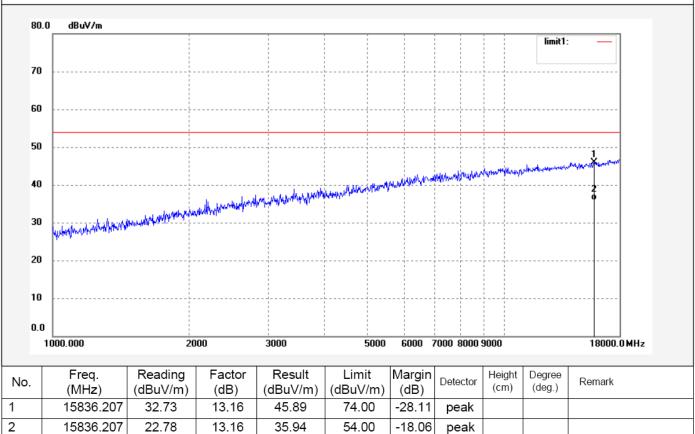
Job No.: STAR2014 #2145 Polarization:

Standard: FCC Class B 3M Radiated Power Source: AC 120V/60Hz

Test item: Radiation Test Date: 14/12/29/ Temp.(C)/Hum.(%) 25 C / 55 % Time: 11/20/28

EUT: YOTV Engineer Signature: Mode: TX Channel 6(802.11n)20MHz Distance: 3m

Model: U001 Manufacturer: COTIS



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	15836.207	32.73	13.16	45.89	74.00	-28.11	peak			
2	15836.207	22.78	13.16	35.94	54.00	-18.06	peak			



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Page 96 of 113

Report No.: ATE20142590

Job No.: STAR2014 #2146

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 %

EUT: YOTV

Mode: TX Channel 6(802.11n)20MHz

Model: U001

Manufacturer: COTIS

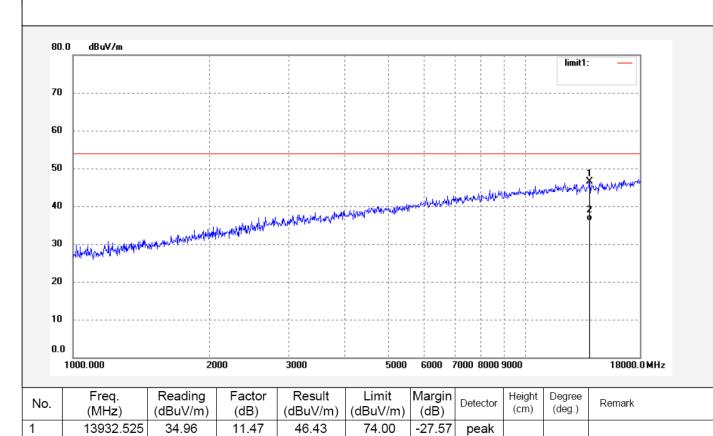
Note: Report No.:ATE20142590

Polarization: Vertical

Power Source: AC 120V/60Hz

Date: 14/12/29/ Time: 11/24/36 Engineer Signature:

Distance: 3m



54.00

-17.83

peak

36.17

11.47

2

13932.525

24.70



Page 97 of 113

Report No.: ATE20142590

Site: 1# Chamber



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Distance: 3m

Job No.: STAR2014 #2148 Polarization: Horizontal

Standard: FCC Class B 3M Radiated Power Source: AC 120V/60Hz

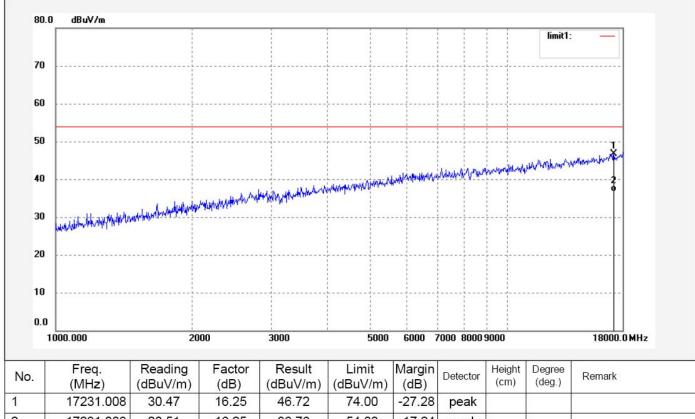
Test item: Radiation Test Date: 14/12/29/ Temp.(C)/Hum.(%) 25 C / 55 % Time: 11/31/28 EUT: YOTV **Engineer Signature:**

Mode: TX Channel 11(802.11n)20MHz

Model: U001

Manufacturer: COTIS

Report No.:ATE20142590 Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	17231.008	30.47	16.25	46.72	74.00	-27.28	peak			
2	17231.008	20.51	16.25	36.76	54.00	-17.24	peak			



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Report No.: ATE20142590

Page 98 of 113

Job No.: STAR2014 #2147 Polarization: Vertical

Standard: FCC Class B 3M Radiated Power Source: AC 120V/60Hz

 Test item:
 Radiation Test
 Date: 14/12/29/

 Temp.(C)/Hum.(%) 25 C / 55 %
 Time: 11/28/33

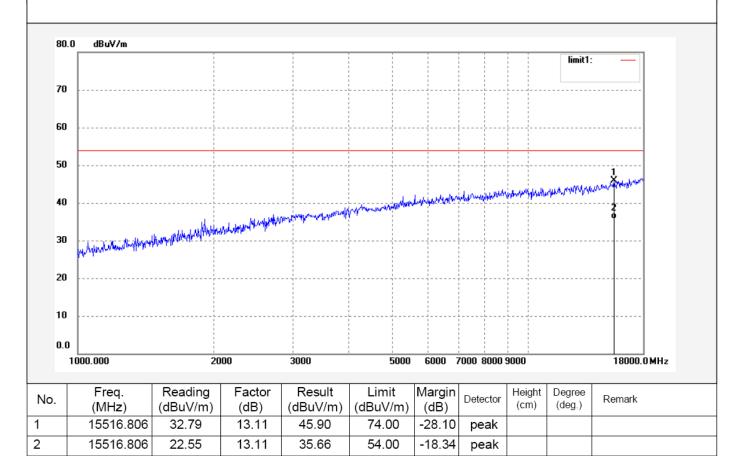
 EUT:
 YOTV
 Engineer Signature:

Mode: TX Channel 11(802.11n)20MHz Engineer Signature

Distance: 3m

Model: U001

Manufacturer: COTIS





Site: 1# Chamber Tel:+86-0755-26503290 Fax:+86-0755-26503396

Report No.: ATE20142590

Page 99 of 113



F1,Bldg,A,Changyuan New Material Port Keyuan Rd, Science & Industry Park,Nanshan Shenzhen,P.R.China

Distance: 3m

Job No.: STAR2014 #2149 Polarization: Horizontal

Standard: FCC Class B 3M Radiated Power Source: AC 120V/60Hz

 Test item:
 Radiation Test
 Date: 14/12/29/

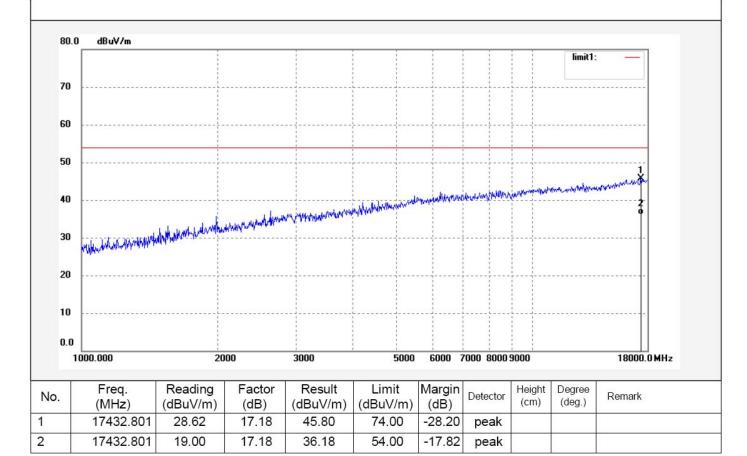
 Temp.(C)/Hum.(%) 25 C / 55 %
 Time: 11/35/19

 EUT:
 YOTV
 Engineer Signature:

Mode: TX Channel 3(802.11n)40MHz
Model: U001

Model: U001

Manufacturer: COTIS





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Report No.: ATE20142590

Page 100 of 113

Job No.: STAR2014 #2150 Polarization: Vertical

Standard: FCC Class B 3M Radiated Power Source: AC 120V/60Hz

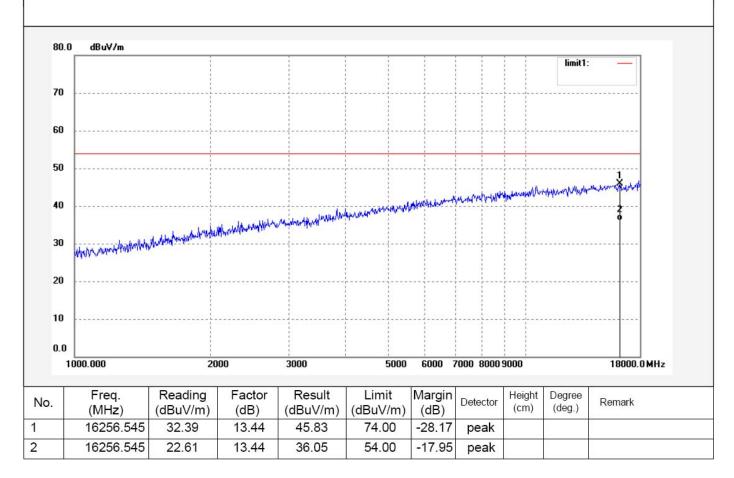
 Test item:
 Radiation Test
 Date: 14/12/29/

 Temp.(C)/Hum.(%) 25 C / 55 %
 Time: 11/38/41

 EUT:
 YOTV
 Engineer Signature:

Mode: TX Channel 3(802.11n)40MHz Distance: 3m

Model: U001 Manufacturer: COTIS





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Site: 1# Chamber Tel:+86-0755-26503290 Fax:+86-0755-26503396

Report No.: ATE20142590

Page 101 of 113

Job No.: STAR2014 #2152 Polarization: Horizontal

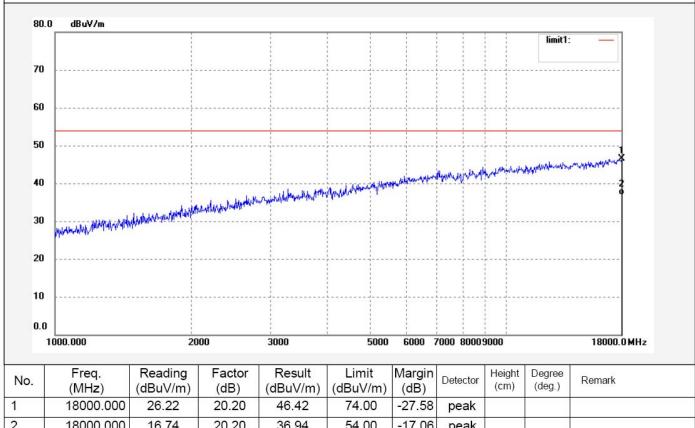
Standard: FCC Class B 3M Radiated Power Source: AC 120V/60Hz

Test item: Radiation Test Date: 14/12/29/ Temp.(C)/Hum.(%) 25 C / 55 % Time: 11/45/45

EUT: YOTV **Engineer Signature:** Mode: Distance: 3m TX Channel 6(802.11n)40MHz

Model: U001 Manufacturer: COTIS

Report No.:ATE20142590 Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)		Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	18000.000	26.22	20.20	46.42	74.00	-27.58	peak			
2	18000.000	16.74	20.20	36.94	54.00	-17.06	peak			



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Report No.: ATE20142590

Site: 1# Chamber

Page 102 of 113

F1,Bldg,A,Changyuan New Material Port Keyuan Rd, Science & Industry Park, Nanshan Shenzhen, P.R. China

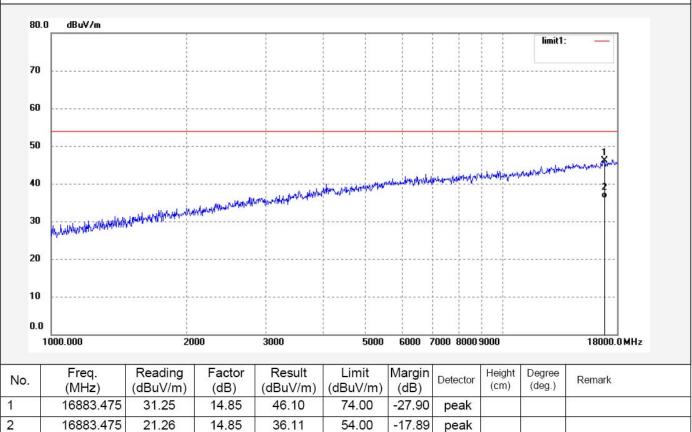
Job No.: STAR2014 #2151 Polarization: Vertical

Standard: FCC Class B 3M Radiated Power Source: AC 120V/60Hz

Test item: Radiation Test Date: 14/12/29/ Temp.(C)/Hum.(%) 25 C / 55 % Time: 11/42/43

EUT: YOTV **Engineer Signature:** Mode: TX Channel 6(802.11n)40MHz Distance: 3m

Model: U001 Manufacturer: COTIS





Report No.: ATE20142590 Page 103 of 113



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Site: 1# Chamber

Job No.: STAR2014 #2153

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 %

EUT: YOTV

Mode: TX Channel 9(802.11n)40MHz

Model: U001

Manufacturer: COTIS

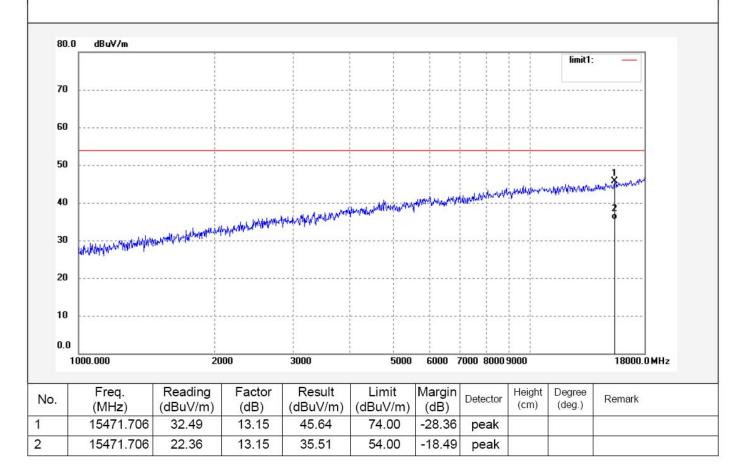
Note: Report No.:ATE20142590

Polarization: Horizontal

Power Source: AC 120V/60Hz

Date: 14/12/29/ Time: 11/49/47 Engineer Signature:

Distance: 3m





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Report No.: ATE20142590

Page 104 of 113

Job No.: STAR2014 #2154

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 %

EUT: YOTV

Mode: TX Channel 9(802.11n)40MHz

Model: U001

Manufacturer: COTIS

Note: Report No.:ATE20142590

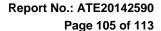
Polarization: Vertical

Power Source: AC 120V/60Hz

Date: 14/12/29/ Time: 11/53/37 Engineer Signature:

Distance: 3m

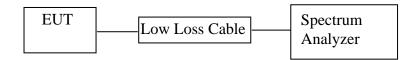
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10										
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1	1000.000	20	000	3000	5000	6000 7	7000 8000	9000		18000.0 MHz
T	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
T	15292.613	33.24	13.43	46.67	74.00	-27.33	peak			
\neg	15292.613	23.12	13.43	36.55	54.00	-17.45	peak			





11. CONDUCTED SPURIOUS EMISSION COMPLIANCE TEST

11.1.Block Diagram of Test Setup



11.2.The Requirement For Section 15.247(d)

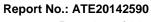
Section 15.247(d): In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a).

11.3.EUT Configuration on Measurement

The equipment is installed on the emission measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

11.4. Operating Condition of EUT

- 11.4.1. Setup the EUT and simulator as shown as Section 11.1.
- 11.4.2. Turn on the power of all equipment.
- 11.4.3.Let the EUT work in TX modes measure it. The transmit frequency are 2412-2462 and 2422-2452MHz. We select 2412MHz, 2437MHz, 2462MHz and 2422MHz, 2437MHz, 2452MHz TX frequency to transmit.





Page 106 of 113

11.5.Test Procedure

- 11.5.1.The transmitter output was connected to the spectrum analyzer via a low loss cable.
- 11.5.2.Set RBW of spectrum analyzer to 100kHz and VBW to 300kHz.
- 11.5.3. The Conducted Spurious Emission was measured and recorded.

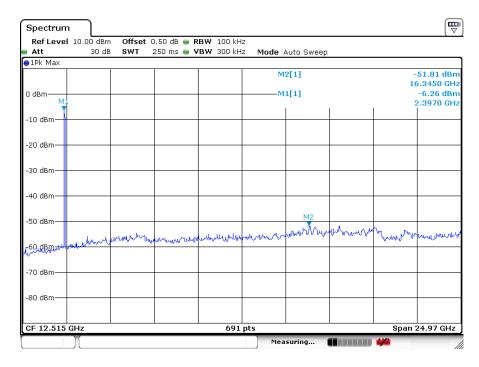
11.6.Test Result

Pass.

The spectrum analyzer plots are attached as below.

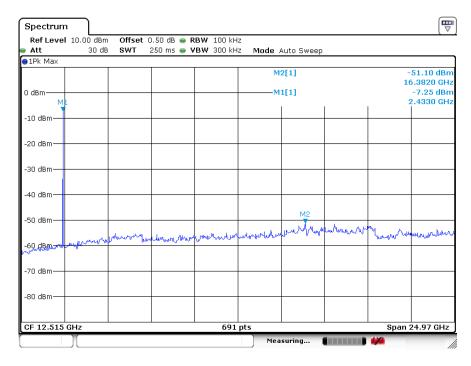


TX 802.11b Channel Low 2412MHz



Date: 26.Dec.2014 10:48:13

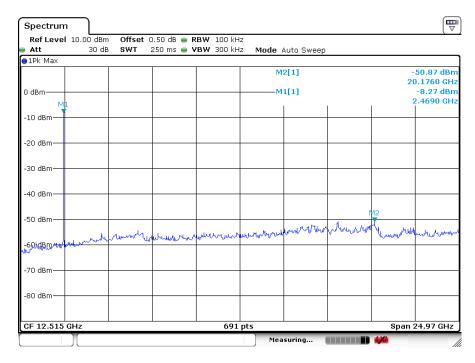
TX 802.11b Channel Middle 2437MHz



Date: 26.Dec.2014 10:47:00

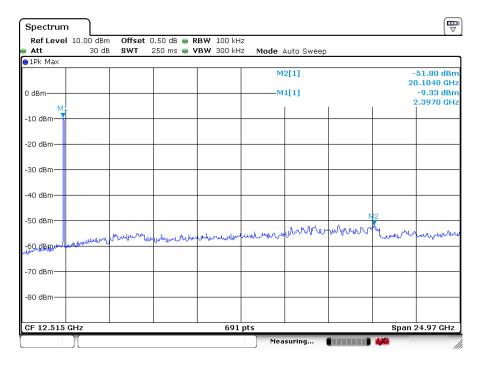


TX 802.11b Channel High 2462MHz



Date: 26.Dec.2014 10:49:12

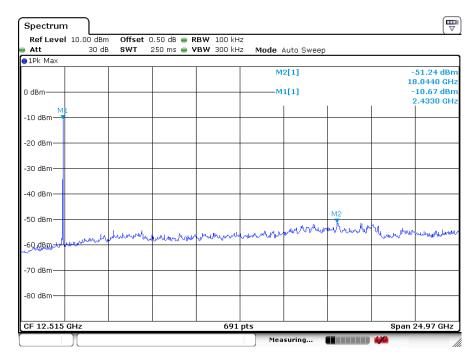
TX 802.11g Channel Low 2412MHz



Date: 26.Dec.2014 10:55:30

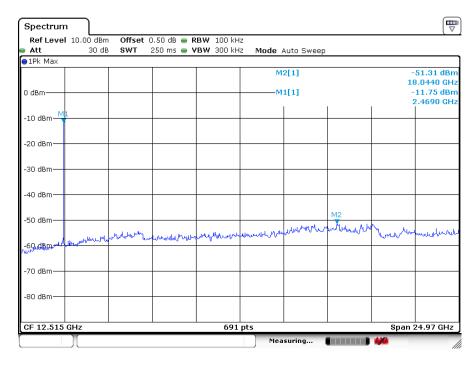


TX 802.11g Channel Middle 2437MHz



Date: 26.Dec.2014 10:53:11

TX 802.11g Channel High 2462MHz



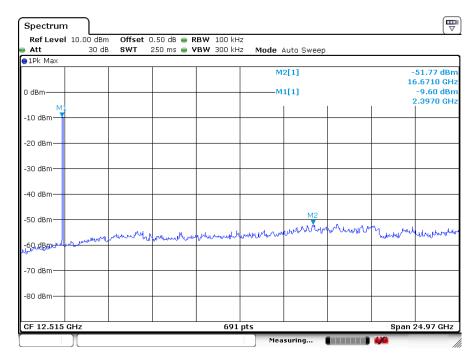
Date: 26.Dec.2014 10:52:12

Page 110 of 113



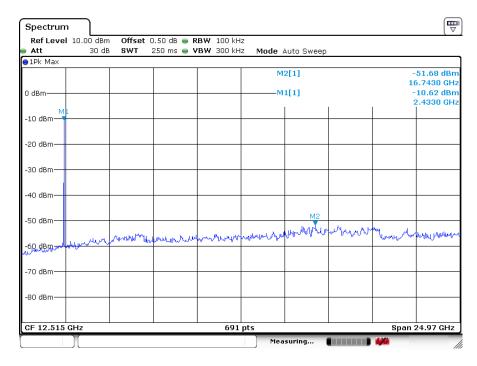


TX 802.11n Channel Low 2412MHz (20MHz)



Date: 26.Dec.2014 10:56:43

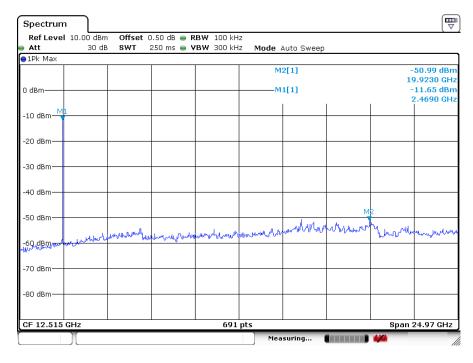
TX 802.11n Channel Middle 2437MHz (20MHz)



Date: 26.Dec.2014 10:57:29

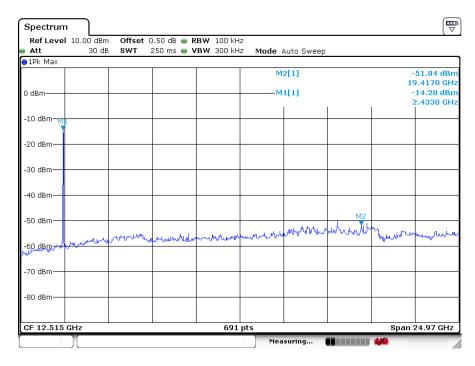


TX 802.11n Channel High 2462MHz (20MHz)



Date: 26.Dec.2014 10:59:15

TX 802.11n Channel Low 2422MHz (40MHz)

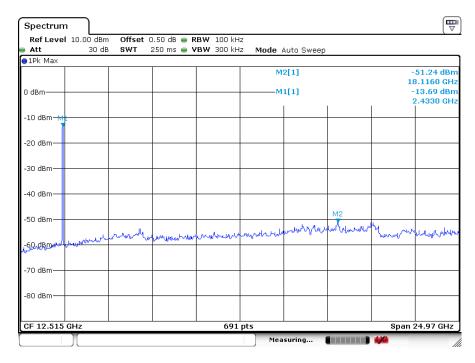


Date: 26.Dec.2014 11:02:38

Page 112 of 113

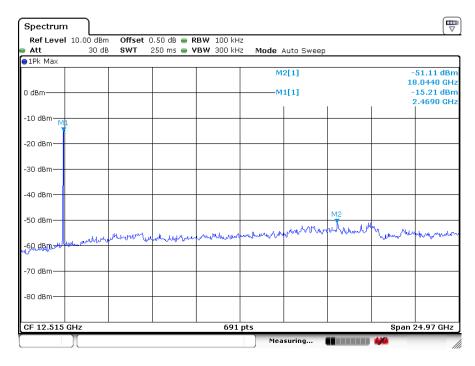


TX 802.11n Channel Middle 2437MHz (40MHz)



Date: 26.Dec.2014 11:00:27

TX 802.11n Channel High 2452MHz (40MHz)



Date: 26.Dec.2014 11:03:35



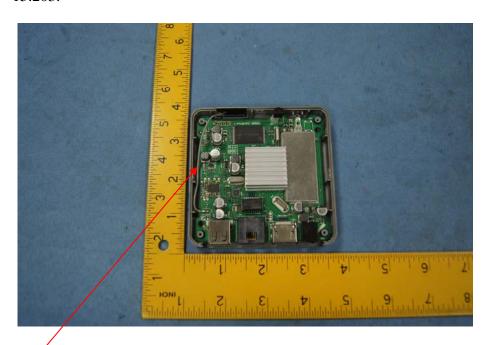
12.ANTENNA REQUIREMENT

12.1.The Requirement

According to 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.

12.2.Antenna Construction

Device is equipped with permanent attached antenna, which isn't displaced by other antenna. Therefore, the equipment complies with the antenna requirement of Section 15.203.



Antenna