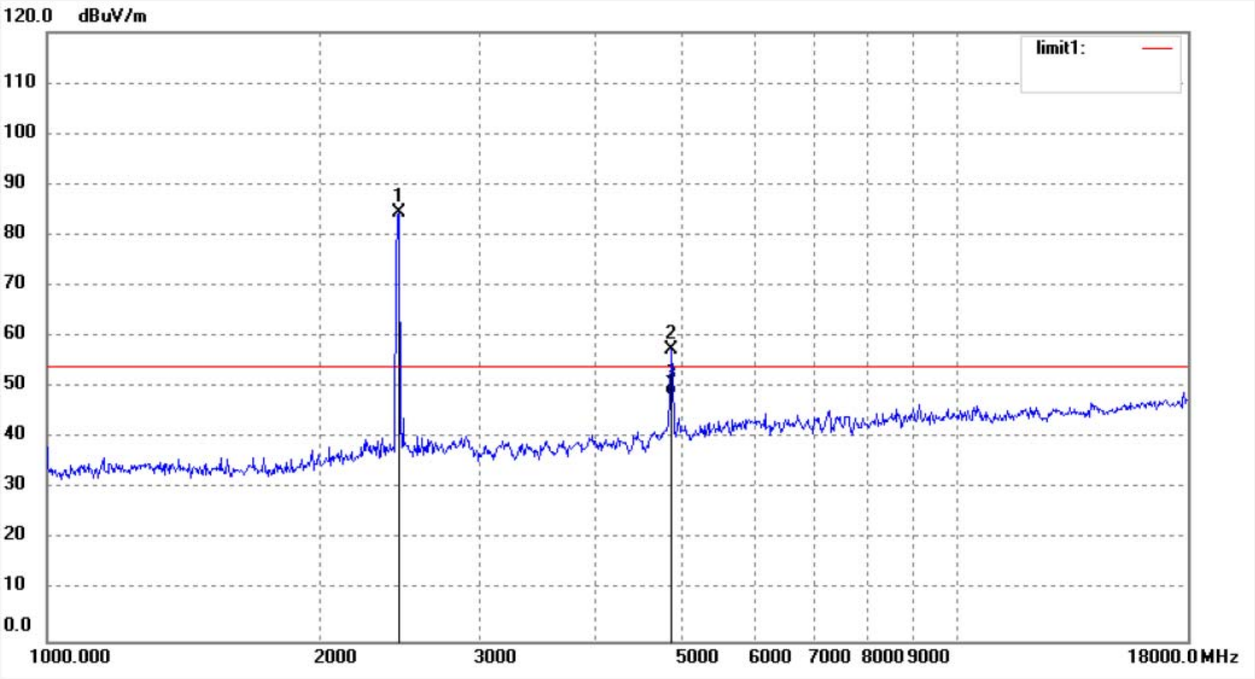
ACCURATE TECHNOLOGY CO., LTD.
F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China
Site: 1# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: star2017 #876
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 25 C / 55 %
EUT: WiFi module
Mode: TX Channel 11(802.11n20)
Model: WPC0GR2231R
Manufacturer: Prima

Polarization: Vertical
Power Source: DC 12V
Date: 17/10/16/
Time: 15/07/05
Engineer Signature: star
Distance: 3m

Note: Report No.:ATE20171983

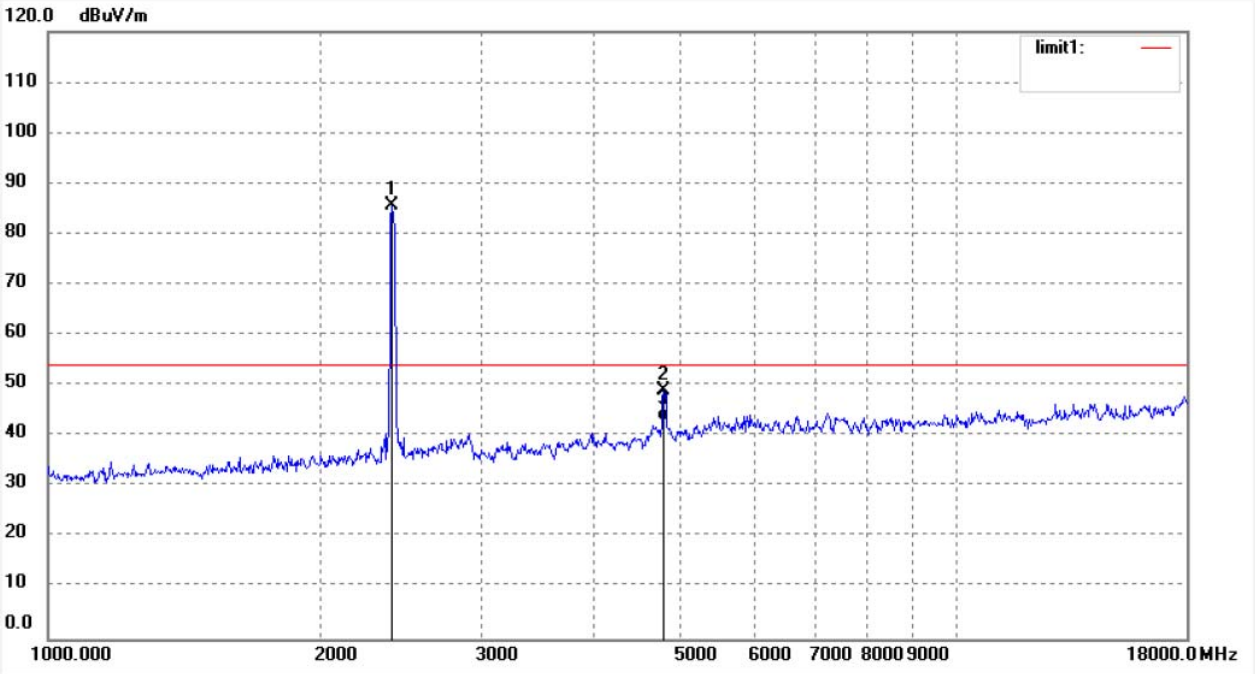


No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2462.107	90.65	-6.10	84.55			peak	150	88	
2	4924.257	56.20	1.25	57.45	74.00	-16.55	peak	150	112	
3	4924.257	47.10	1.25	48.35	54.00	-5.65	AVG	150	140	

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

Job No.: star2017 #879	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 12V
Test item: Radiation Test	Date: 17/10/16/
Temp.(C)/Hum.(%) 25 C / 55 %	Time: 15/11/58
EUT: WiFi module	Engineer Signature: star
Mode: TX Channel 3(802.11n)40MHz	Distance: 3m
Model: WPC0GR2231R	
Manufacturer: Prima	

Note: Report No.:ATE20171983

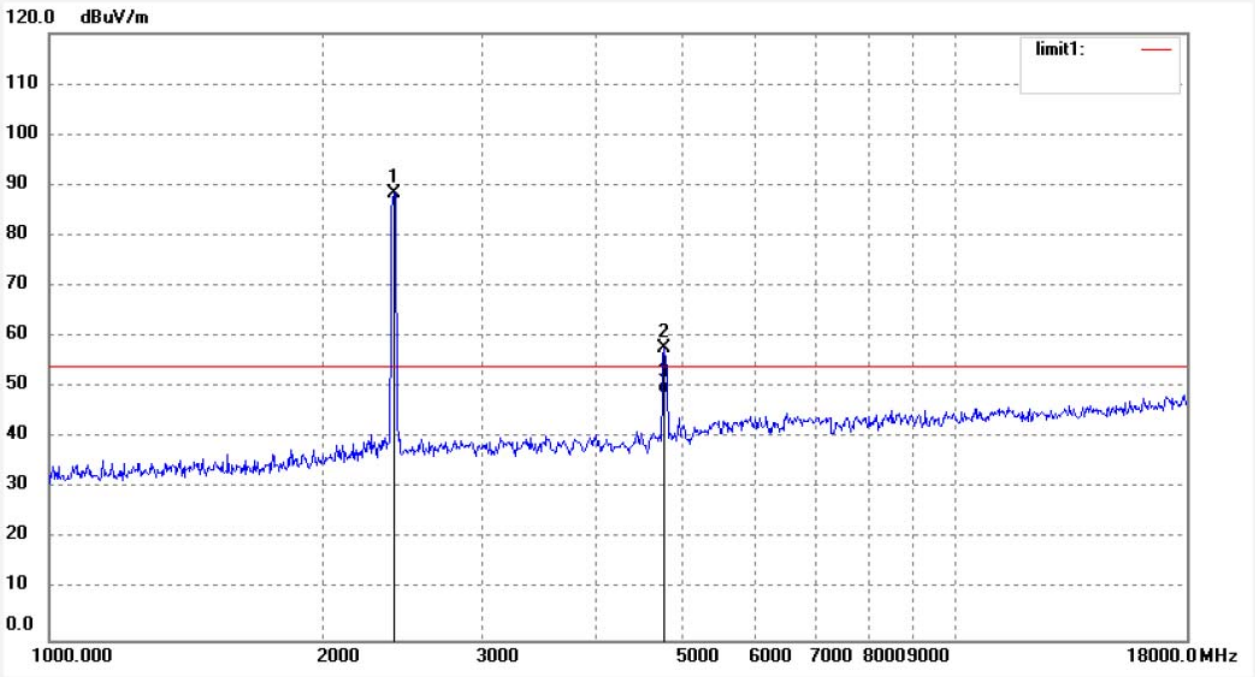


No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2422.119	91.86	-6.29	85.57			peak	200	161	
2	4844.259	48.10	0.88	48.98	74.00	-25.02	peak	200	203	
3	4844.259	42.15	0.88	43.03	54.00	-10.97	AVG	200	38	

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

Job No.: star2017 #880	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 12V
Test item: Radiation Test	Date: 17/10/16/
Temp.(C)/Hum.(%) 25 C / 55 %	Time: 15/13/39
EUT: WiFi module	Engineer Signature: star
Mode: TX Channel 3(802.11n)40MHz	Distance: 3m
Model: WPC0GR2231R	
Manufacturer: Prima	

Note: Report No.:ATE20171983

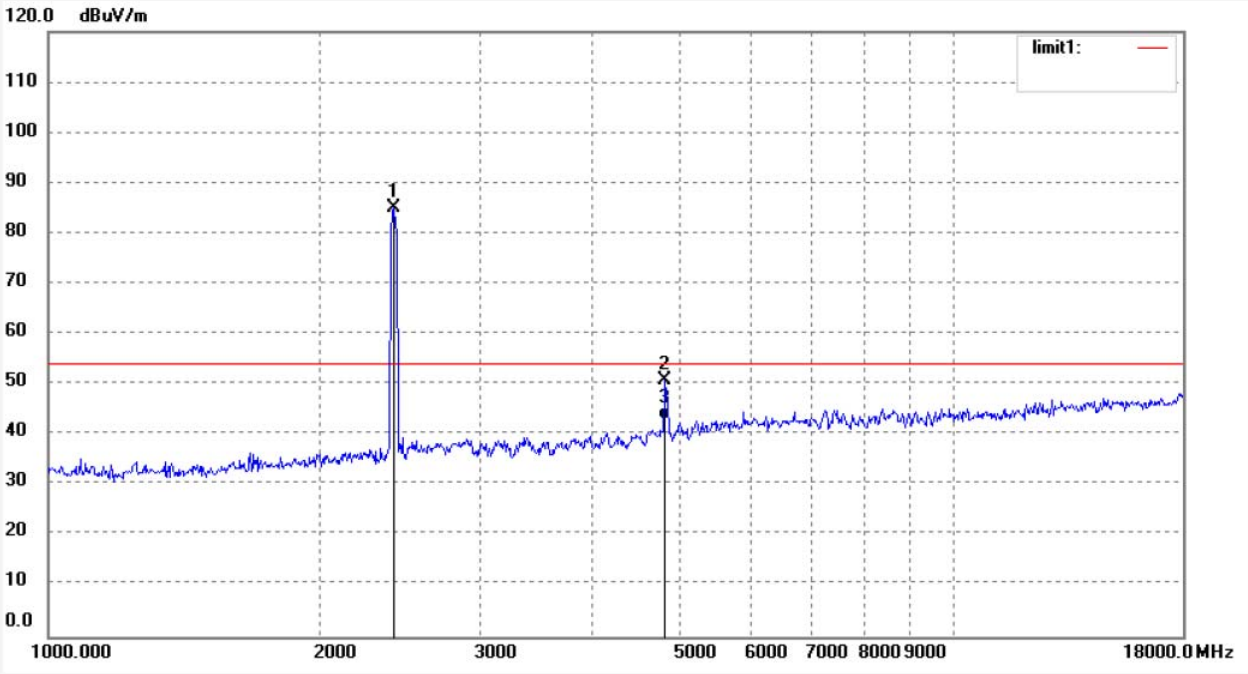


No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2422.199	94.59	-6.27	88.32			peak	150	321	
2	4844.259	56.74	0.88	57.62	74.00	-16.38	peak	150	173	
3	4844.259	48.00	0.88	48.88	54.00	-5.12	AVG	150	149	

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

Job No.: star2017 #882	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 12V
Test item: Radiation Test	Date: 17/10/16/
Temp.(C)/Hum.(%) 25 C / 55 %	Time: 15/22/55
EUT: WiFi module	Engineer Signature: star
Mode: TX Channel 6(802.11n)40MHz	Distance: 3m
Model: WPC0GR2231R	
Manufacturer: Prima	

Note: Report No.:ATE20171983

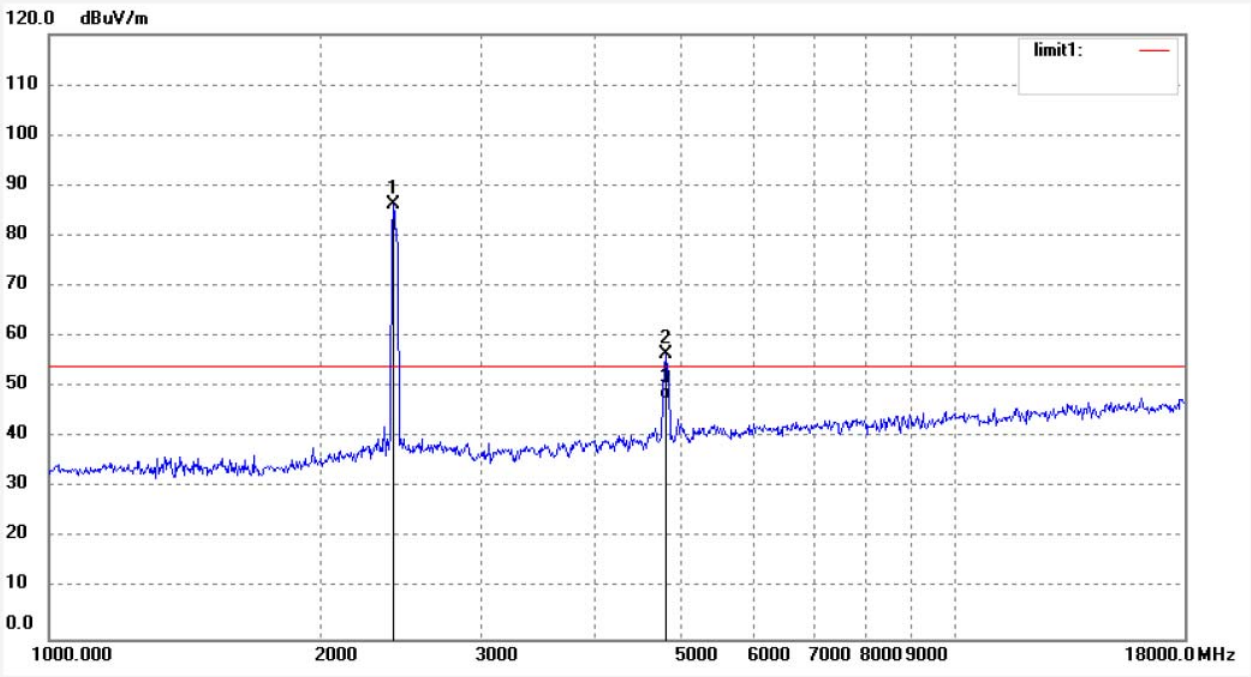


No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2437.199	91.24	-6.24	85.00			peak	200	152	
2	4874.324	49.72	1.07	50.79	74.00	-23.21	peak	200	175	
3	4874.324	42.10	1.07	43.17	54.00	-10.83	AVG	200	207	

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

Job No.: star2017 #881	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 12V
Test item: Radiation Test	Date: 17/10/16/
Temp.(C)/Hum.(%) 25 C / 55 %	Time: 15/21/06
EUT: WiFi module	Engineer Signature: star
Mode: TX Channel 6(802.11n)40MHz	Distance: 3m
Model: WPC0GR2231R	
Manufacturer: Prima	

Note: Report No.:ATE20171983

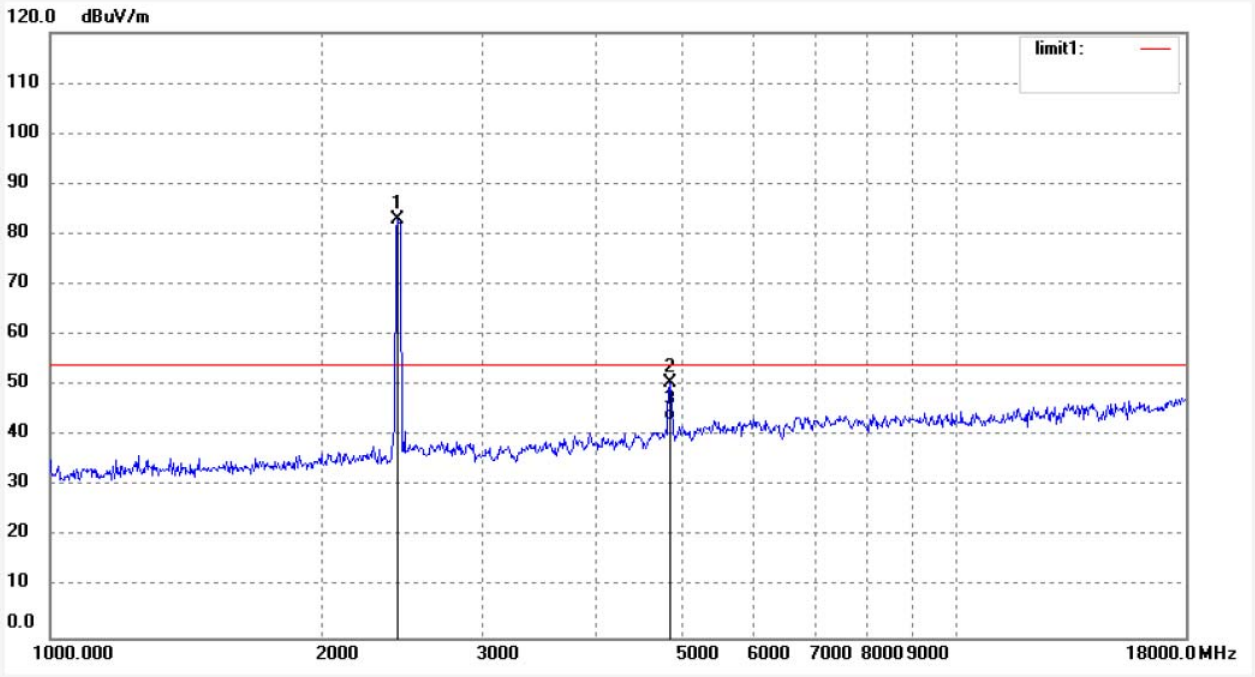


No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2437.199	92.43	-6.27	86.16			peak	150	112	
2	4874.324	55.48	1.07	56.55	74.00	-17.45	peak	150	173	
3	4874.324	46.40	1.07	47.47	54.00	-6.53	AVG	150	64	

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

Job No.: star2017 #884	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 12V
Test item: Radiation Test	Date: 17/10/16/
Temp.(C)/Hum.(%) 25 C / 55 %	Time: 15/28/30
EUT: WiFi module	Engineer Signature: star
Mode: TX Channel 9(802.11n)40MHz	Distance: 3m
Model: WPC0GR2231R	
Manufacturer: Prima	

Note: Report No.:ATE20171983

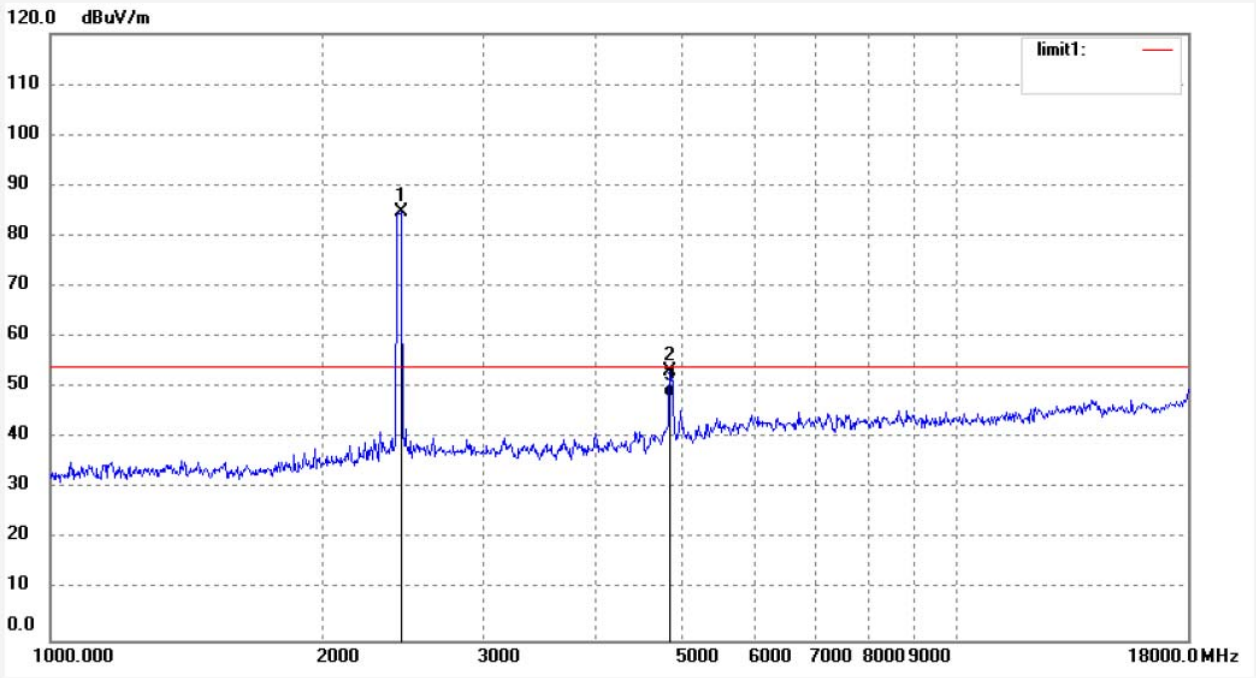


No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2452.162	89.15	-6.17	82.98			peak	200	44	
2	4904.361	49.28	1.19	50.47	74.00	-23.53	peak	200	139	
3	4904.361	42.00	1.19	43.19	54.00	-10.81	AVG	200	176	

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

Job No.: star2017 #883	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 12V
Test item: Radiation Test	Date: 17/10/16/
Temp.(C)/Hum.(%) 25 C / 55 %	Time: 15/26/42
EUT: WiFi module	Engineer Signature: star
Mode: TX Channel 9(802.11n)40MHz	Distance: 3m
Model: WPC0GR2231R	
Manufacturer: Prima	

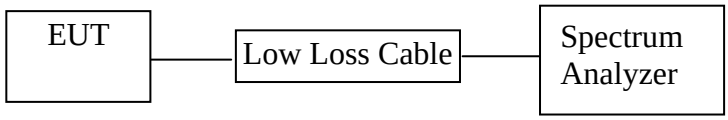
Note: Report No.:ATE20171983



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2452.107	90.81	-6.10	84.71			peak	150	144	
2	4904.361	52.07	1.13	53.20	74.00	-20.80	peak	150	139	
3	4904.361	47.00	1.13	48.13	54.00	-5.87	AVG	150	149	

11.BAND EDGE 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 are 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 MHz. We select 2412MHz, 2462MHz and 2422MHz, 2452MHz TX frequency to transmit.

11.5.Test Procedure

Conducted Band Edge:

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.

Radiate Band Edge:

11.5.3.The EUT is placed on a turntable, which is 1.5m above the ground plane and worked at highest radiated power.

11.5.4.The turntable was rotated for 360 degrees to determine the position of maximum emission level.

11.5.5.EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emission.

11.5.6.Set the spectrum analyzer in the following setting in order to capture the lower and upper band-edges of the emission:

11.5.7.RBW=1MHz, VBW=1MHz

11.5.8.The band edges was measured and recorded.

11.6.Test Result

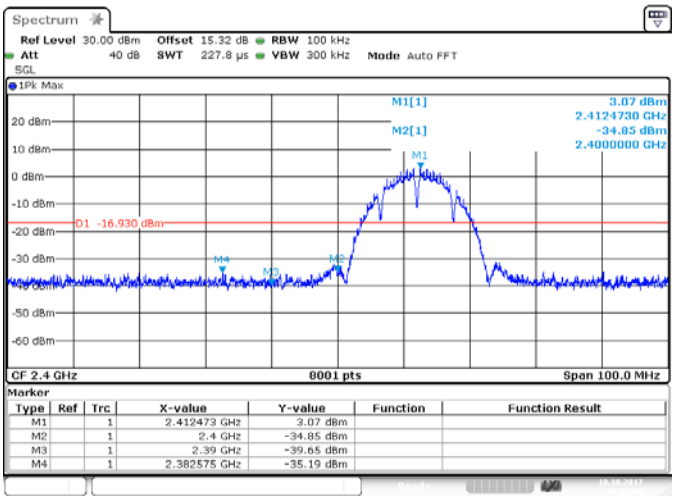
The test was performed with 802.11b			
Frequency (MHz)	Result of Band Edge ANT 1(dBc)	Result of Band Edge ANT 2 (dBc)	Limit of Band Edge (dBc)
2400	37.92	36.48	> 20dBc
2483.5	43.79	43.23	> 20dBc

The test was performed with 802.11g			
Frequency (MHz)	Result of Band Edge ANT 1(dBc)	Result of Band Edge ANT 2 (dBc)	Limit of Band Edge (dBc)
2400	36.07	35.05	> 20dBc
2483.5	40.18	37.45	> 20dBc

The test was performed with 802.11n (20MHz)			
Frequency (MHz)	Result of Band Edge ANT 1(dBc)	Result of Band Edge ANT 2 (dBc)	Limit of Band Edge (dBc)
2400	35.10	36.65	> 20dBc
2483.5	40.59	38.14	> 20dBc

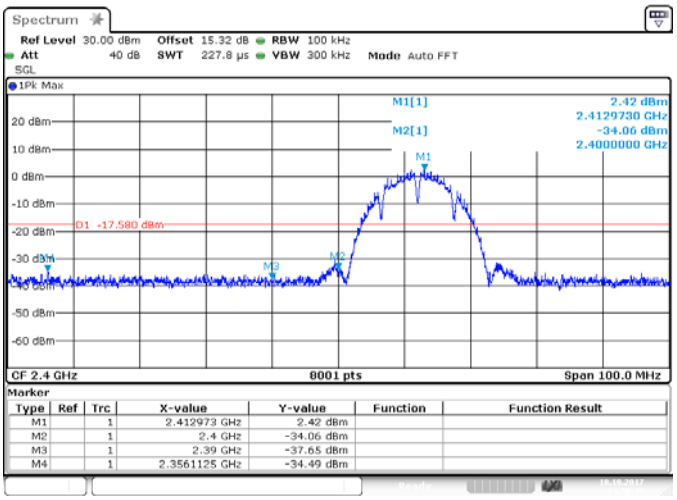
The test was performed with 802.11n (40MHz)			
Frequency (MHz)	Result of Band Edge ANT 1(dBc)	Result of Band Edge ANT 2 (dBc)	Limit of Band Edge (dBc)
2400	36.10	32.87	> 20dBc
2483.5	32.23	36.93	> 20dBc

ANT 1(802.11b)

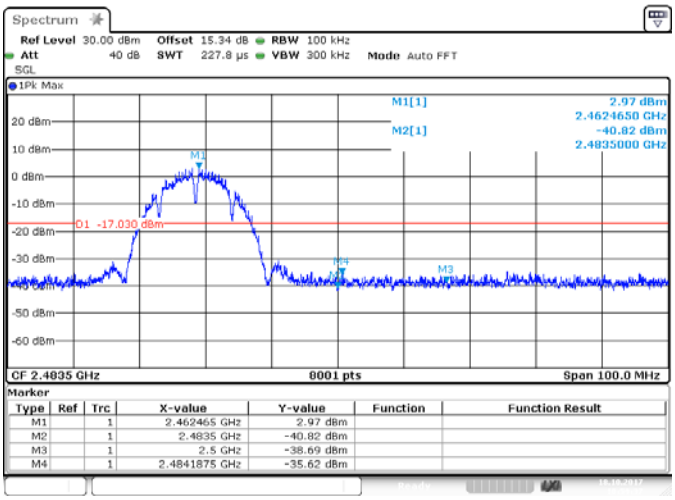


Date: 18.OCT.2017 10:54:07

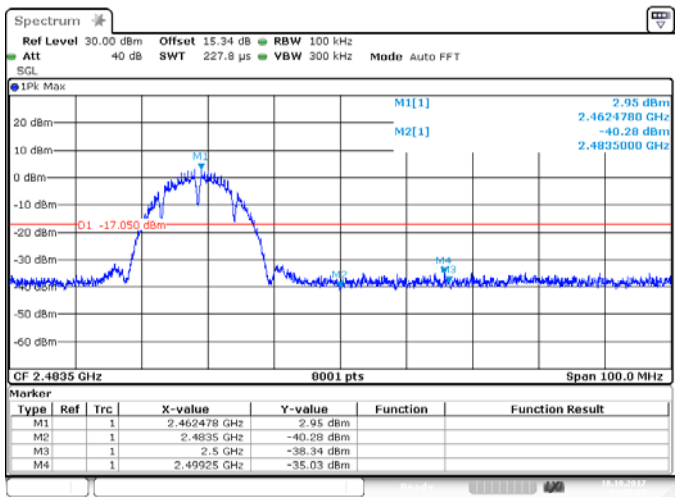
ANT 2(802.11b)



Date: 18.OCT.2017 14:50:47

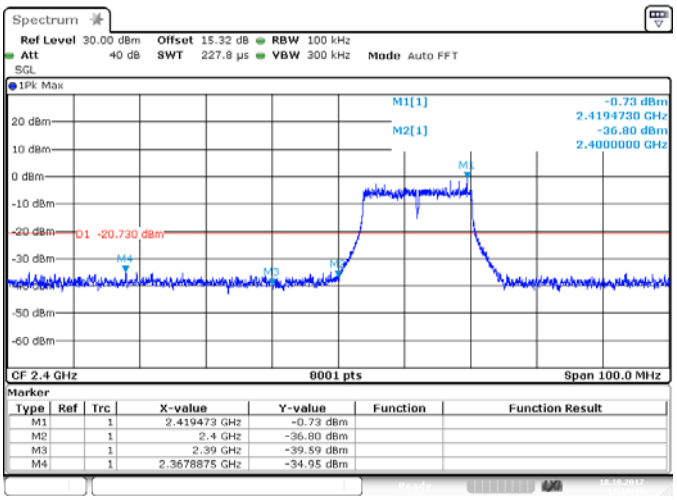


Date: 18.OCT.2017 10:59:37



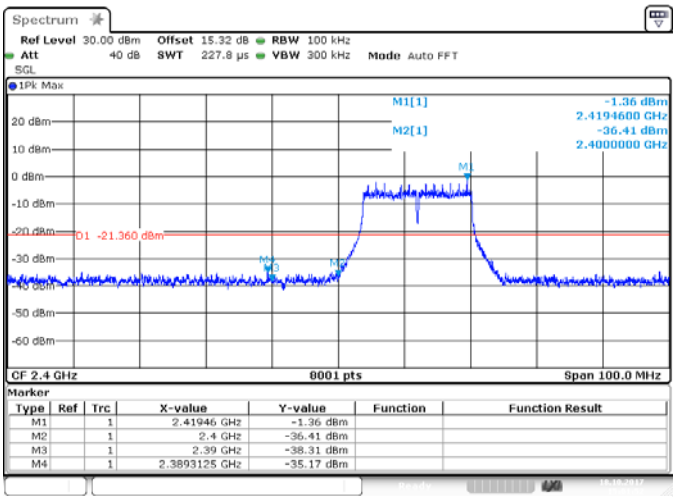
Date: 18.OCT.2017 14:57:25

ANT 1(802.11g)

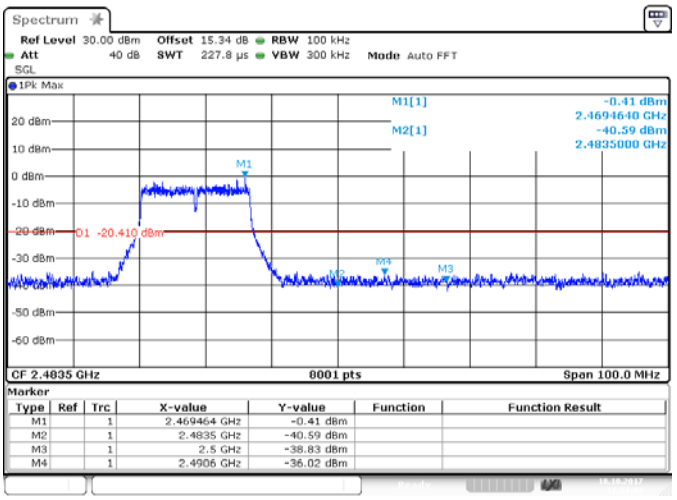


Date: 18.OCT.2017 11:17:42

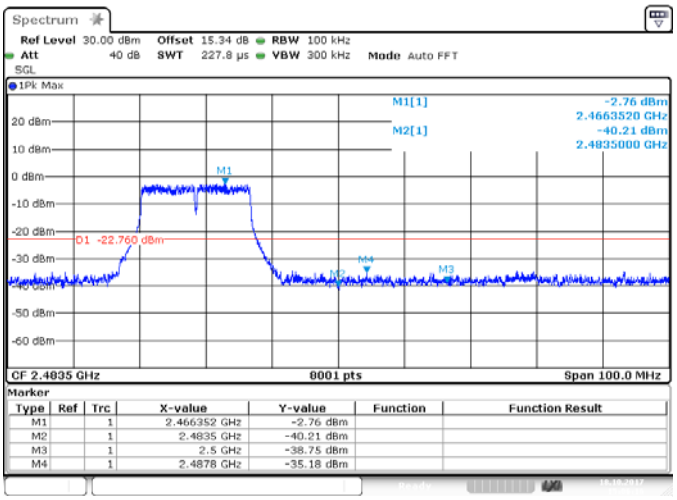
ANT 2(802.11g)



Date: 18.OCT.2017 15:01:53

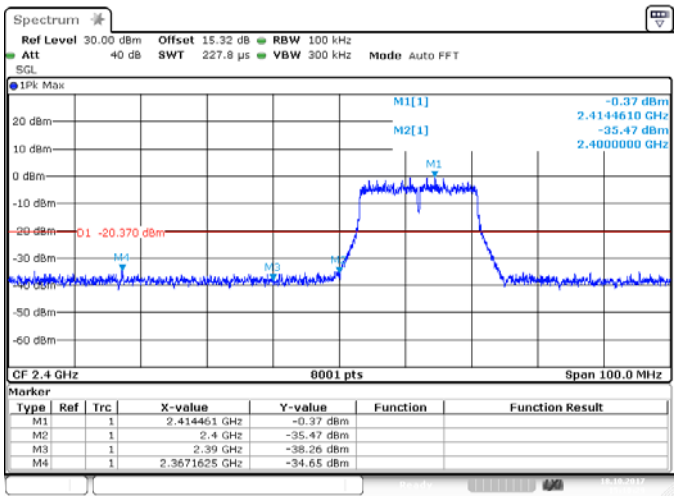


Date: 18.OCT.2017 11:21:01



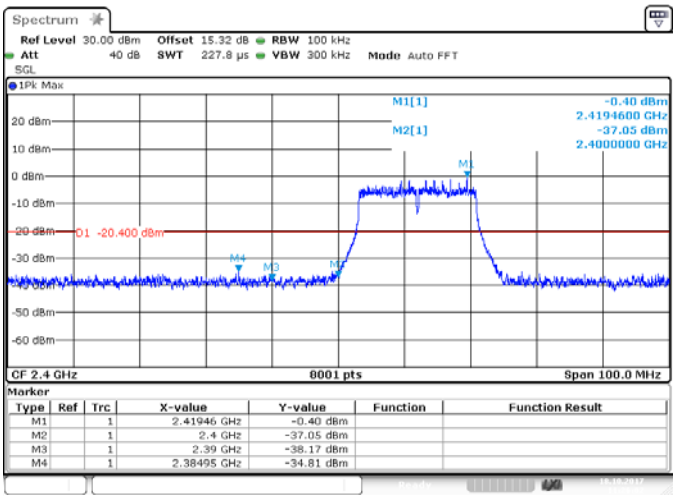
Date: 18.OCT.2017 15:06:16

ANT 1(802.11n20)

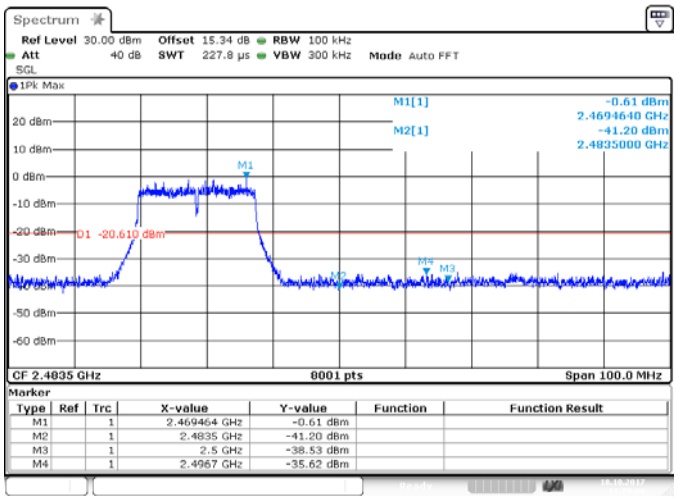


Date: 18.OCT.2017 15:10:29

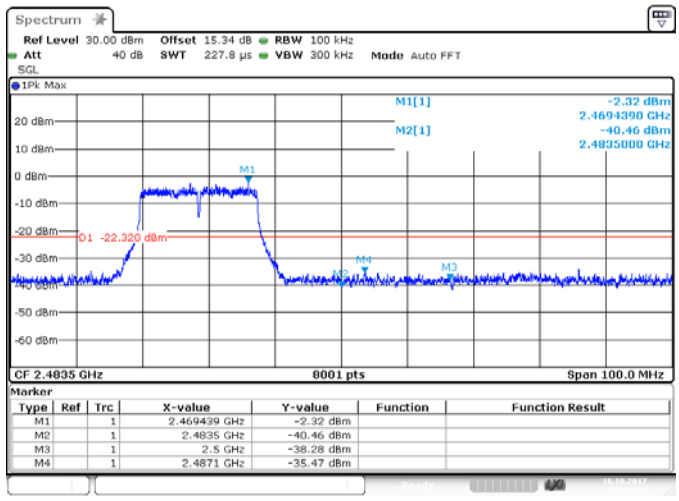
ANT 2(802.11 n20)



Date: 18.OCT.2017 11:26:02

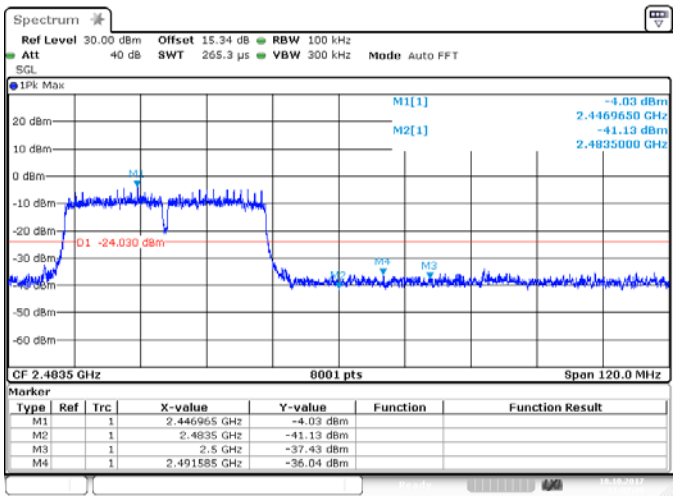


Date: 18.OCT.2017 11:29:06



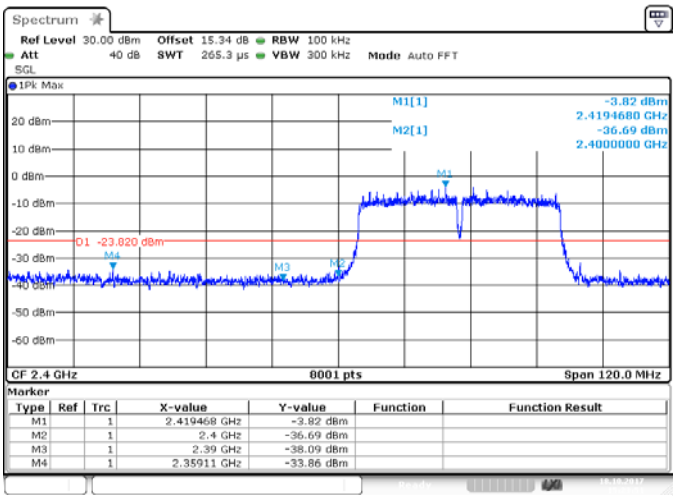
Date: 18.OCT.2017 15:16:44

ANT 1(802.11n40)

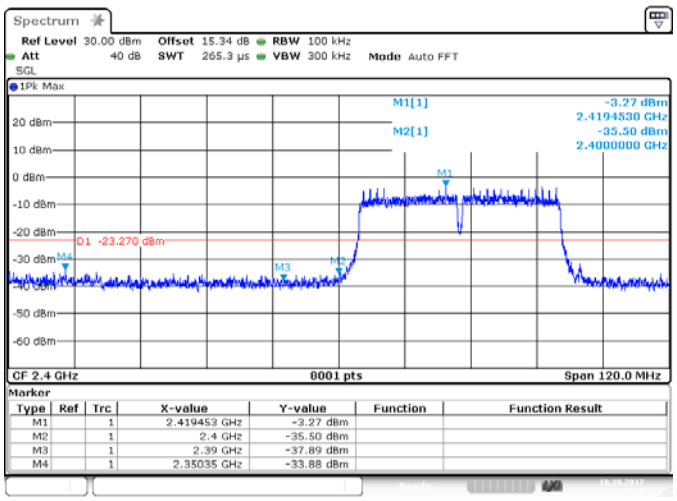


Date: 18.OCT.2017 11:37:39

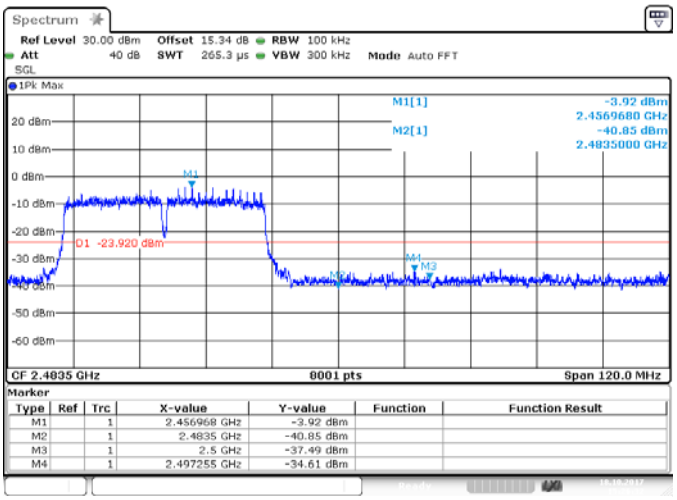
ANT 2(802.11n40)



Date: 18.OCT.2017 15:23:51



Date: 18.OCT.2017 11:39:35



Date: 18.OCT.2017 15:26:32

Radiated Band Edge Result

Note:

1. Emissions attenuated more than 20 dB below the permissible value are not reported.
2. The field strength is calculated by adding the antenna factor, high pass filter loss(if used) and cable loss, and subtracting the amplifier gain(if any)from the measured reading. The basic equation calculation is as follows:

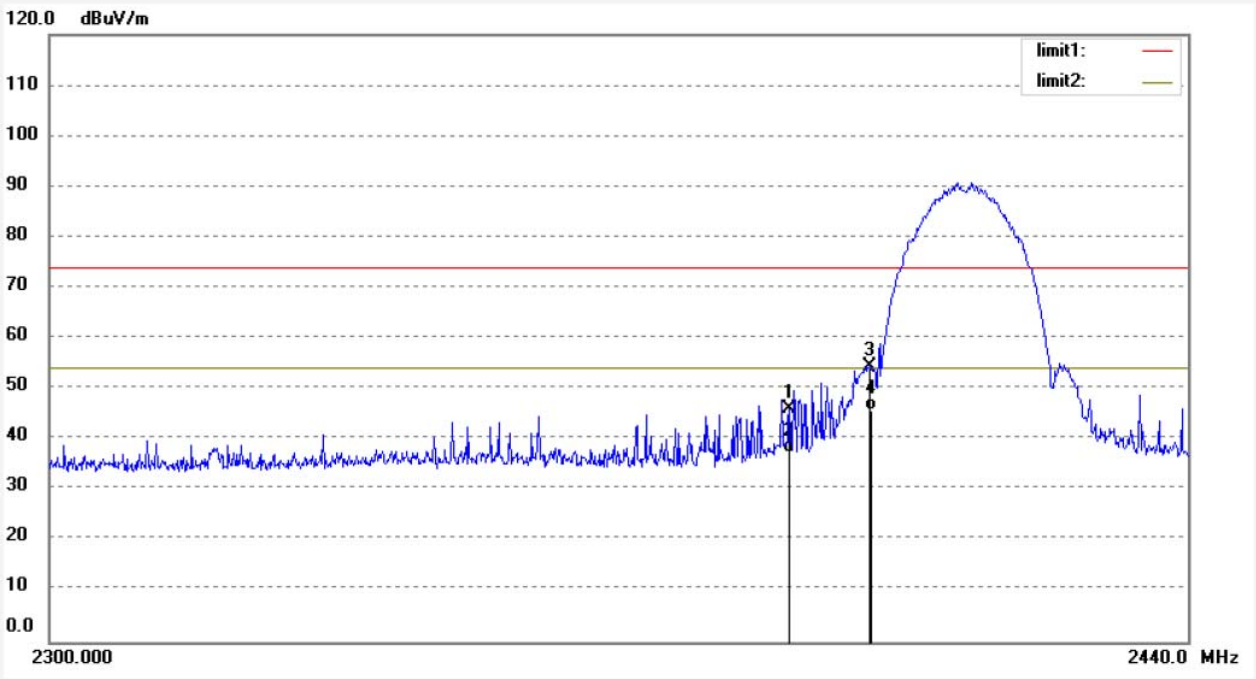
   Result = Reading + Corrected Factor
3. Display the measurement of peak values.
4. The EUT is tested radiation emission at each test mode (802.11b/g/n) in three axes. Besides, We have tested the single antenna transmit mode and the dual antenna emission mode. The worst emissions(the dual antenna emission mode) are reflected in the following plots.
5. The average measurement was not performed when peak measured data under the limit of average detection.

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

Job No.: star2017 #885
Standard: FCC PK
Test item: Radiation Test
Temp.(C)/Hum.(%) 25 C / 55 %
EUT: WiFi module
Mode: TX Channel 1(802.11b)
Model: WPC0GR2231R
Manufacturer: Prima

Polarization: Horizontal
Power Source: DC 12V
Date: 17/10/16/
Time: 15/34/24
Engineer Signature: star
Distance: 3m

Note: Report No.:ATE20171983



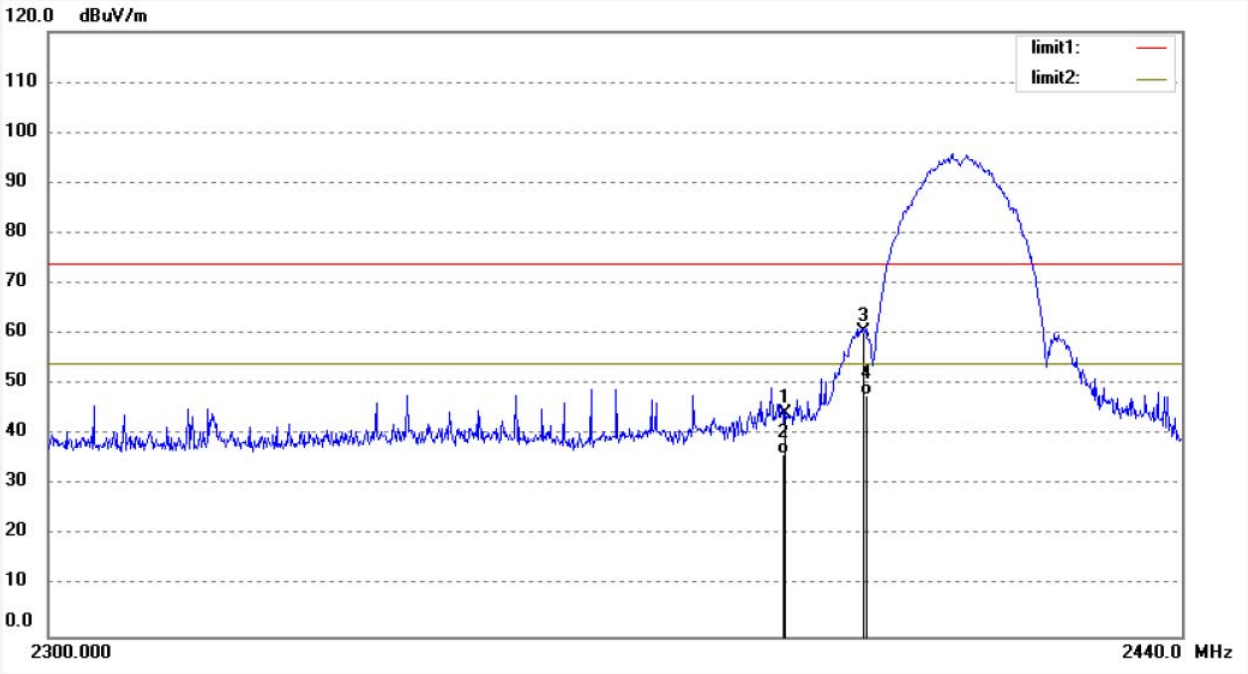
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2390.000	52.31	-6.32	45.99	74.00	-28.01	peak	200	247	
2	2390.000	43.67	-6.32	37.35	54.00	-16.65	AVG	200	193	
3	2400.000	60.68	-6.27	54.41	74.00	-19.59	peak	200	230	
4	2400.000	52.14	-6.27	45.87	54.00	-8.13	AVG	200	185	

Note: Average measurement with peak detection at No.2&4

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

Job No.: star2017 #886	Polarization: Vertical
Standard: FCC PK	Power Source: DC 12V
Test item: Radiation Test	Date: 17/10/16/
Temp.(C)/Hum.(%) 25 C / 55 %	Time: 15/35/48
EUT: WiFi module	Engineer Signature: star
Mode: TX Channel 1(802.11b)	Distance: 3m
Model: WPC0GR2231R	
Manufacturer: Prima	

Note: Report No.:ATE20171983



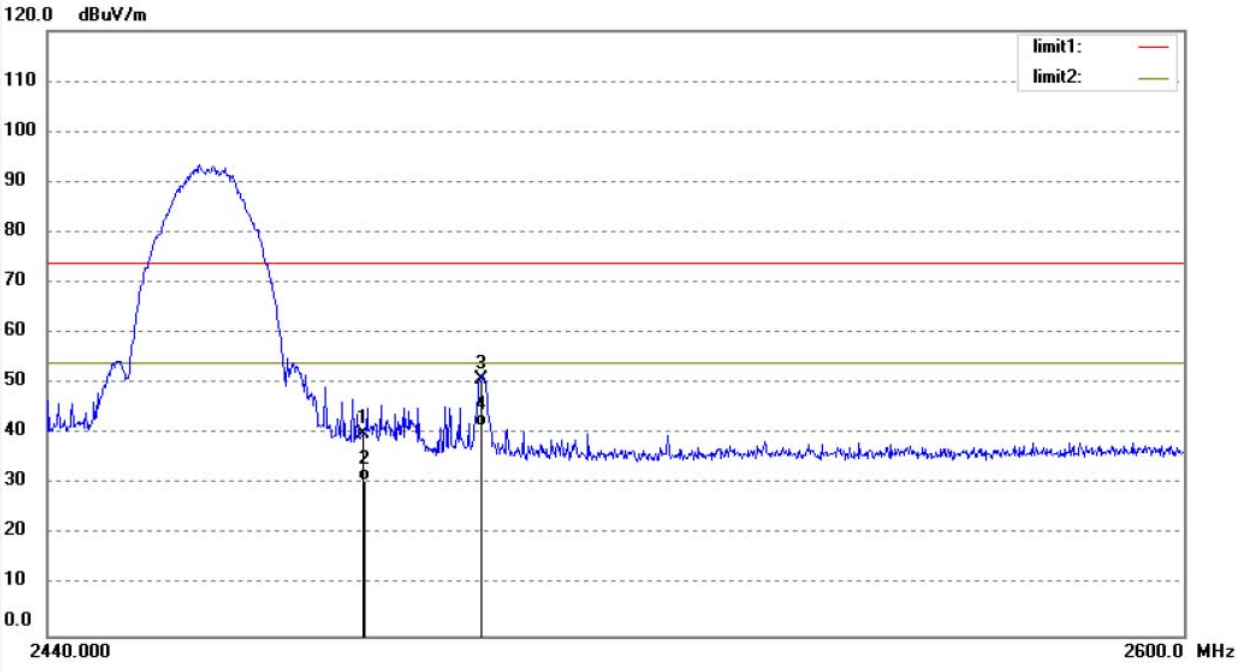
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2390.000	50.43	-6.32	44.11	74.00	-29.89	peak	150	26	
2	2390.000	42.36	-6.32	36.04	54.00	-17.96	AVG	150	162	
3	2400.000	66.80	-6.27	60.53	74.00	-13.47	peak	150	134	
4	2400.000	54.10	-6.27	47.83	54.00	-6.17	AVG	150	168	

Note: Average measurement with peak detection at No.2&4

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

Job No.: star2017 #888	Polarization: Horizontal
Standard: FCC PK	Power Source: DC 12V
Test item: Radiation Test	Date: 17/10/16/
Temp.(C)/Hum.(%) 25 C / 55 %	Time: 15/40/19
EUT: WiFi module	Engineer Signature: star
Mode: TX Channel 11(802.11b)	Distance: 3m
Model: WPC0GR2231R	
Manufacturer: Prima	

Note: Report No.:ATE20171983



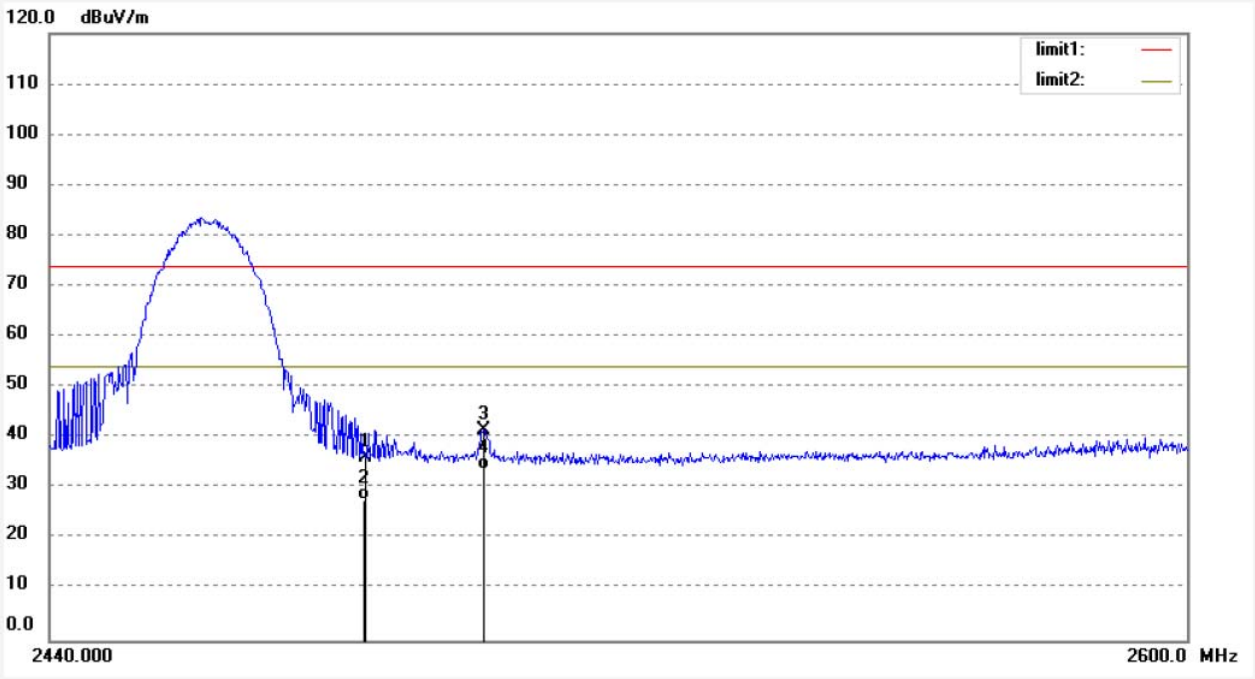
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2483.500	45.81	-5.89	39.92	74.00	-34.08	peak	200	143	
2	2483.500	36.57	-5.89	30.68	54.00	-23.32	AVG	200	317	
3	2500.000	56.81	-5.81	51.00	74.00	-23.00	peak	200	306	
4	2500.000	47.26	-5.81	41.45	54.00	-12.55	AVG	200	291	

Note: Average measurement with peak detection at No.2&4

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

Job No.: star2017 #887	Polarization: Vertical
Standard: FCC PK	Power Source: DC 12V
Test item: Radiation Test	Date: 17/10/16/
Temp.(C)/Hum.(%) 25 C / 55 %	Time: 15/38/59
EUT: WiFi module	Engineer Signature: star
Mode: TX Channel 11(802.11b)	Distance: 3m
Model: WPC0GR2231R	
Manufacturer: Prima	

Note: Report No.:ATE20171983



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2483.500	41.99	-5.89	36.10	74.00	-37.90	peak	200	169	
2	2483.500	33.54	-5.89	27.65	54.00	-26.35	AVG	200	177	
3	2500.000	47.25	-5.81	41.44	74.00	-32.56	peak	200	189	
4	2500.000	39.50	-5.81	33.69	54.00	-20.31	AVG	200	234	

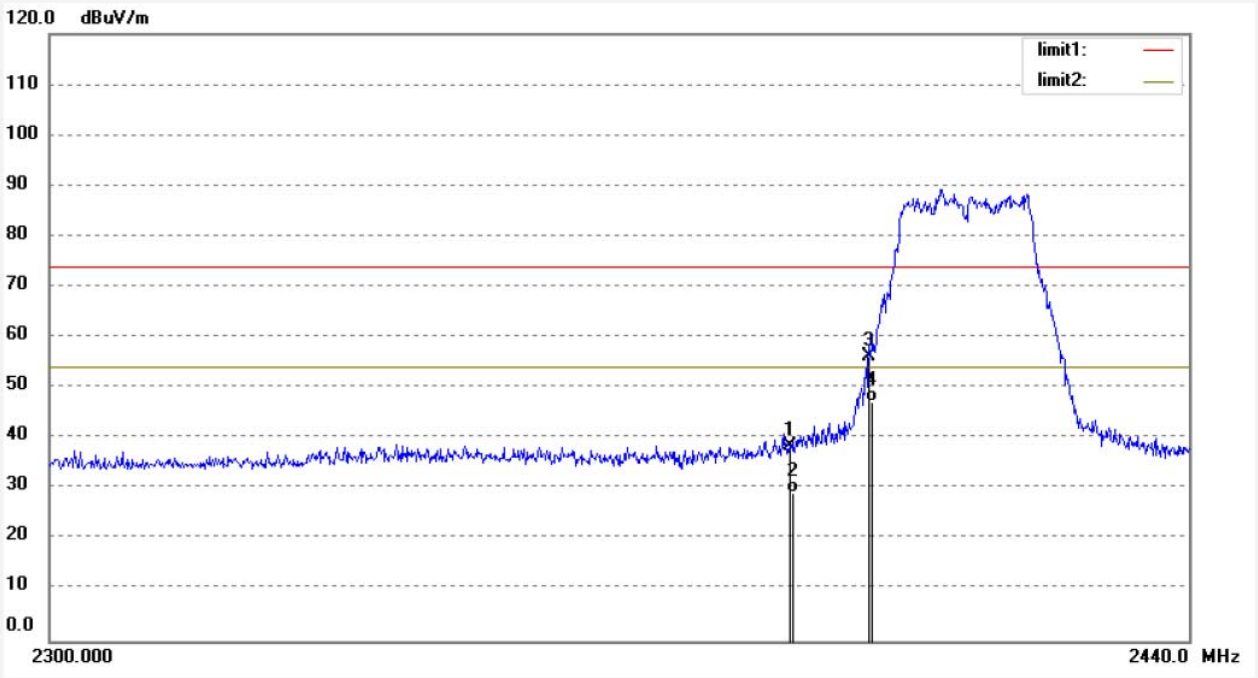
Note: Average measurement with peak detection at No.2&4

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

Job No.: star2017 #889
Standard: FCC PK
Test item: Radiation Test
Temp.(C)/Hum.(%) 25 C / 55 %
EUT: WiFi module
Mode: TX Channel 1(802.11g)
Model: WPC0GR2231R
Manufacturer: Prima

Polarization: Horizontal
Power Source: DC 12V
Date: 17/10/16/
Time: 16/11/04
Engineer Signature: star
Distance: 3m

Note: Report No.:ATE20171983



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2390.000	44.90	-6.32	38.58	74.00	-35.42	peak	200	144	
2	2390.000	35.69	-6.32	29.37	54.00	-24.63	AVG	200	160	
3	2400.000	62.60	-6.27	56.33	74.00	-17.67	peak	200	201	
4	2400.000	53.45	-6.27	47.18	54.00	-6.82	AVG	200	145	

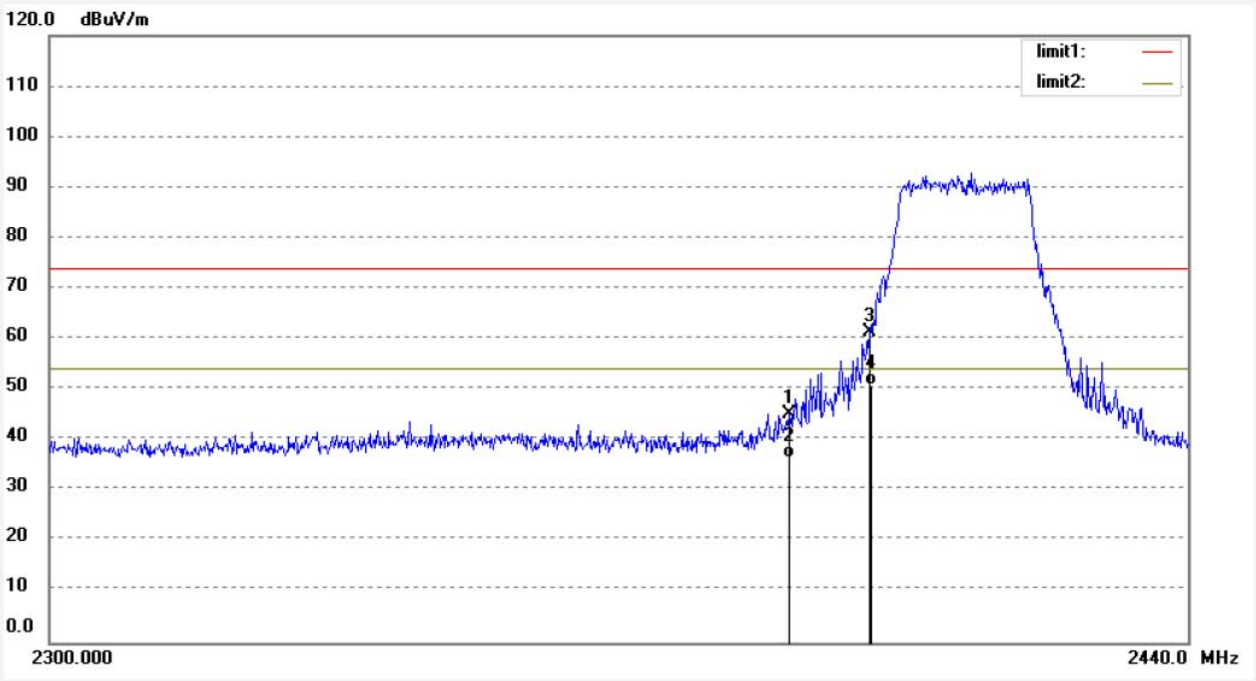
Note: Average measurement with peak detection at No.2&4

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

Job No.: star2017 #890
Standard: FCC PK
Test item: Radiation Test
Temp.(C)/Hum.(%) 25 C / 55 %
EUT: WiFi module
Mode: TX Channel 1(802.11g)
Model: WPC0GR2231R
Manufacturer: Prima

Polarization: Vertical
Power Source: DC 12V
Date: 17/10/16/
Time: 16/12/38
Engineer Signature: star
Distance: 3m

Note: Report No.:ATE20171983



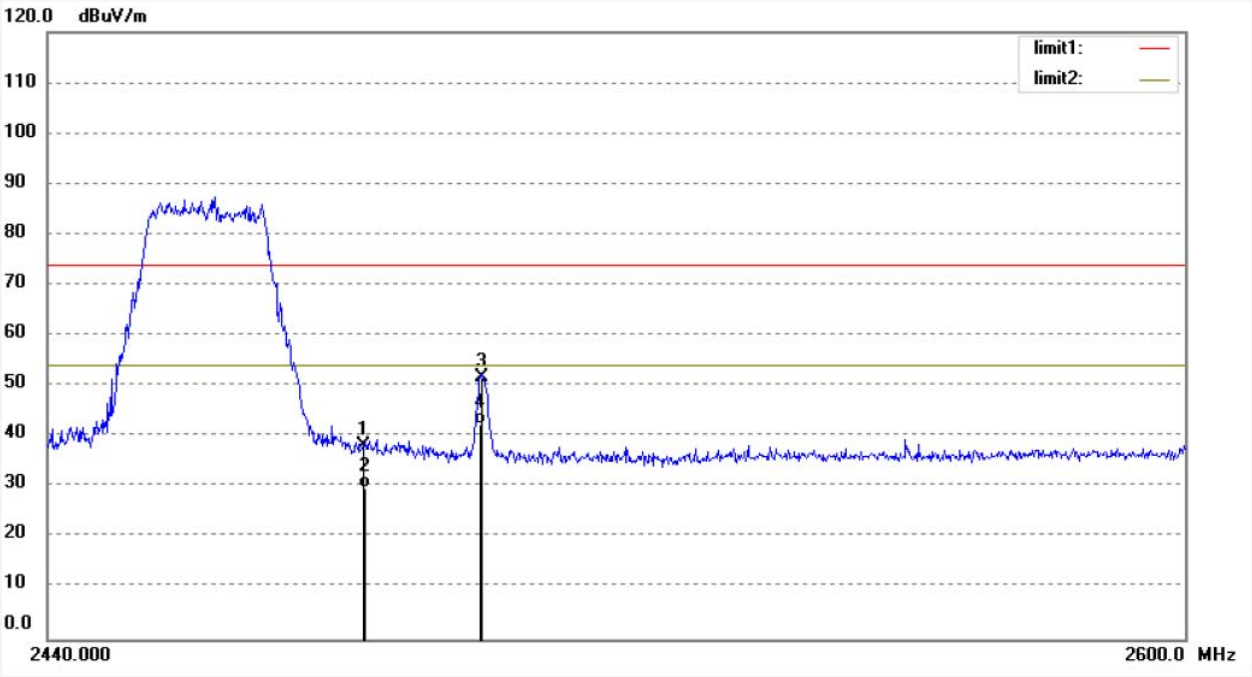
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2390.000	51.58	-6.32	45.26	74.00	-28.74	peak	150	155	
2	2390.000	42.68	-6.32	36.36	54.00	-17.64	AVG	150	264	
3	2400.000	67.72	-6.27	61.45	74.00	-12.55	peak	150	199	
4	2400.000	57.24	-6.27	50.97	54.00	-3.03	AVG	150	207	

Note: Average measurement with peak detection at No.2&4

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

Job No.: star2017 #892	Polarization: Horizontal
Standard: FCC PK	Power Source: DC 12V
Test item: Radiation Test	Date: 17/10/16/
Temp.(C)/Hum.(%) 25 C / 55 %	Time: 16/16/34
EUT: WiFi module	Engineer Signature: star
Mode: TX Channel 11(802.11g)	Distance: 3m
Model: WPC0GR2231R	
Manufacturer: Prima	

Note: Report No.:ATE20171983



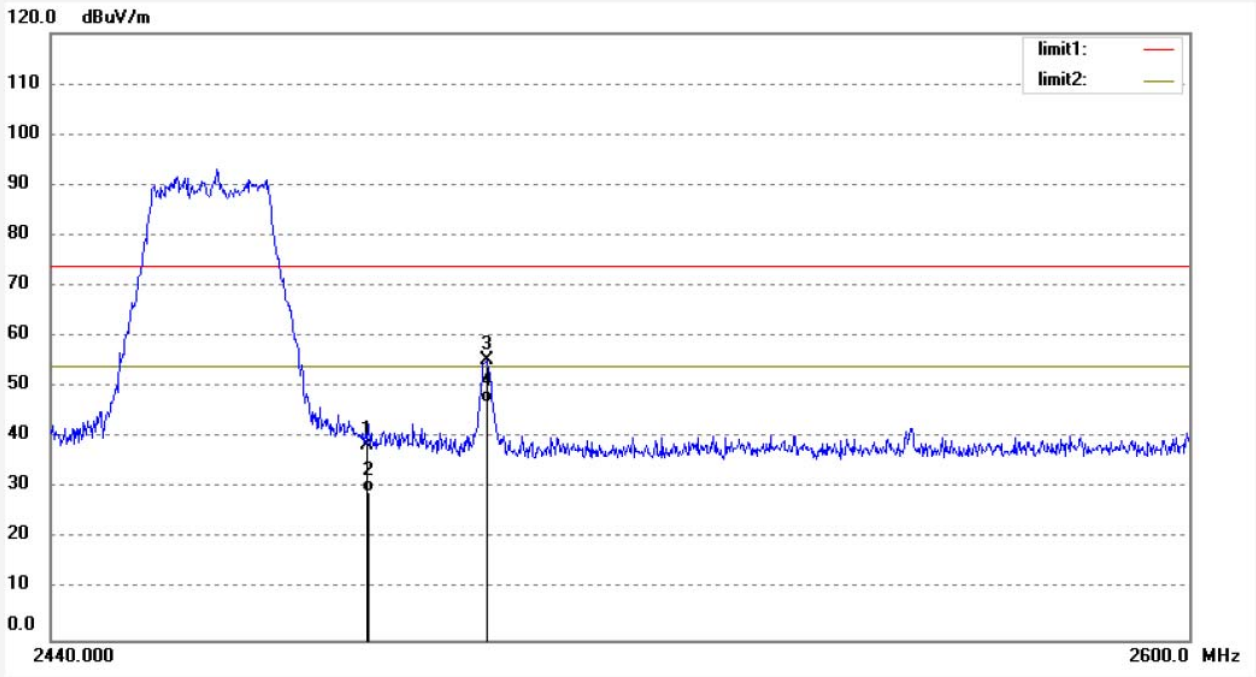
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2483.500	44.03	-5.89	38.14	74.00	-35.86	peak	200	147	
2	2483.500	35.70	-5.89	29.81	54.00	-24.19	AVG	200	249	
3	2500.000	57.61	-5.81	51.80	74.00	-22.20	peak	200	197	
4	2500.000	48.24	-5.81	42.43	54.00	-11.57	AVG	200	204	

Note: Average measurement with peak detection at No.2&4

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

Job No.: star2017 #893	Polarization: Vertical
Standard: FCC PK	Power Source: DC 12V
Test item: Radiation Test	Date: 17/10/16/
Temp.(C)/Hum.(%) 25 C / 55 %	Time: 16/18/04
EUT: WiFi module	Engineer Signature: star
Mode: TX Channel 11(802.11g)	Distance: 3m
Model: WPC0GR2231R	
Manufacturer: Prima	

Note: Report No.:ATE20171983



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2483.500	44.44	-5.89	38.55	74.00	-35.45	peak	150	144	
2	2483.500	35.04	-5.89	29.15	54.00	-24.85	AVG	150	200	
3	2500.000	61.11	-5.81	55.30	74.00	-18.70	peak	150	187	
4	2500.000	52.67	-5.81	46.86	54.00	-7.14	AVG	150	173	

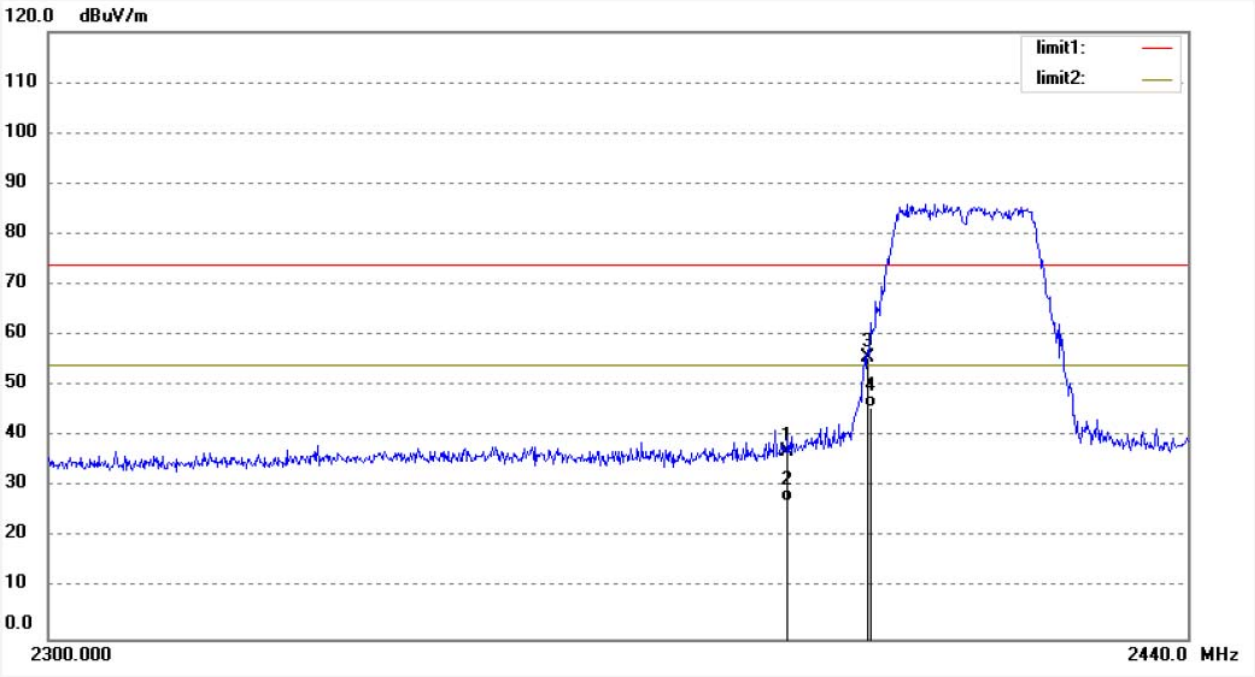
Note: Average measurement with peak detection at No.2&4

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

Job No.: star2017 #896
Standard: FCC PK
Test item: Radiation Test
Temp.(C)/Hum.(%) 25 C / 55 %
EUT: WiFi module
Mode: TX Channel 1(802.11n20)
Model: WPC0GR2231R
Manufacturer: Prima

Polarization: Horizontal
Power Source: DC 12V
Date: 17/10/16/
Time: 16/22/29
Engineer Signature: star
Distance: 3m

Note: Report No.:ATE20171983



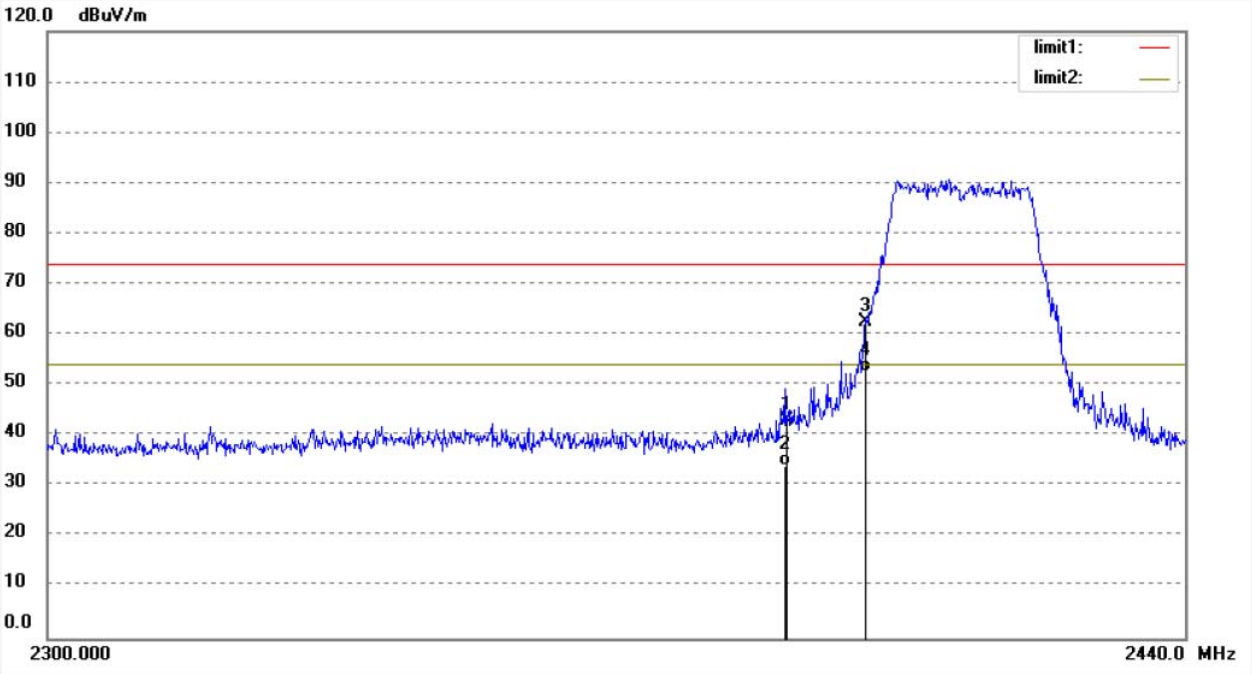
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2390.000	43.31	-6.32	36.99	74.00	-37.01	peak	200	76	
2	2390.000	33.56	-6.32	27.24	54.00	-26.76	AVG	200	103	
3	2400.000	61.99	-6.27	55.72	74.00	-18.28	peak	200	245	
4	2400.000	52.14	-6.27	45.87	54.00	-8.13	AVG	200	176	

Note: Average measurement with peak detection at No.2&4

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

Job No.: star2017 #897	Polarization: Vertical
Standard: FCC PK	Power Source: DC 12V
Test item: Radiation Test	Date: 17/10/16/
Temp.(C)/Hum.(%) 25 C / 55 %	Time: 16/23/55
EUT: WiFi module	Engineer Signature: star
Mode: TX Channel 1(802.11n20)	Distance: 3m
Model: WPC0GR2231R	
Manufacturer: Prima	

Note: Report No.:ATE20171983



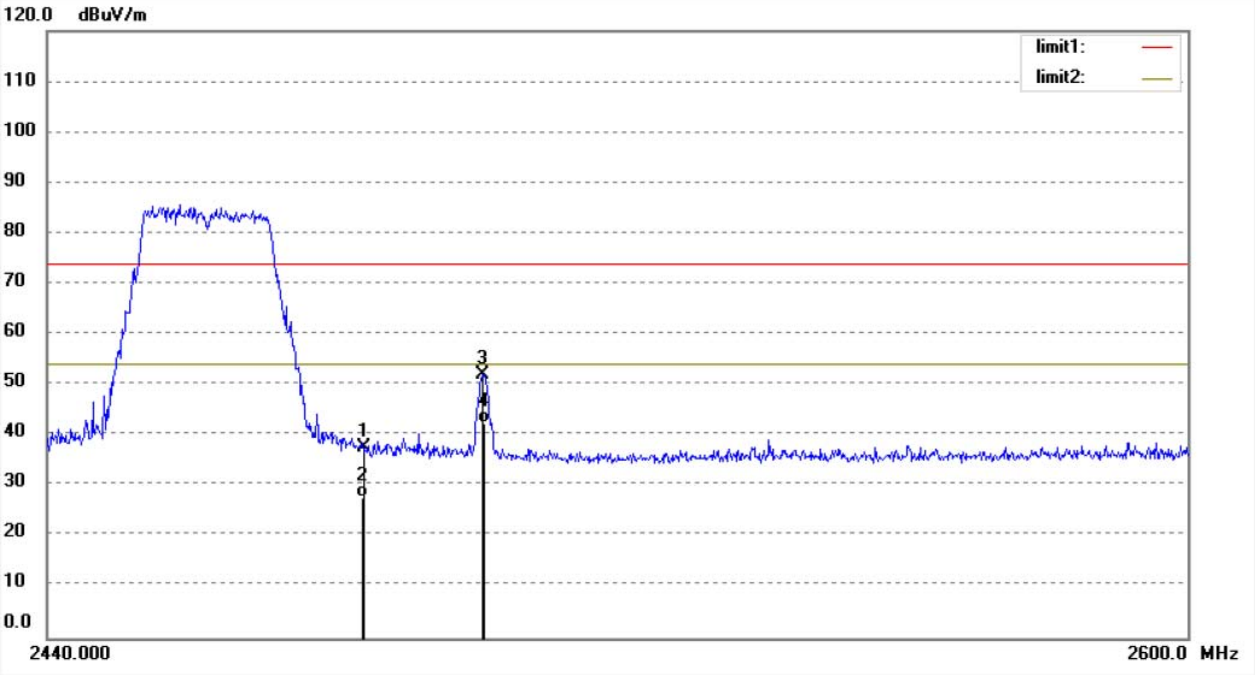
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2390.000	49.25	-6.32	42.93	74.00	-31.07	peak	150	48	
2	2390.000	40.23	-6.32	33.91	54.00	-20.09	AVG	150	102	
3	2400.000	68.73	-6.27	62.46	74.00	-11.54	peak	150	169	
4	2400.000	59.00	-6.27	52.73	54.00	-1.27	AVG	150	217	

Note: Average measurement with peak detection at No.2&4

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

Job No.: star2017 #895	Polarization: Horizontal
Standard: FCC PK	Power Source: DC 12V
Test item: Radiation Test	Date: 17/10/16/
Temp.(C)/Hum.(%) 25 C / 55 %	Time: 16/21/04
EUT: WiFi module	Engineer Signature: star
Mode: TX Channel 11(802.11n20)	Distance: 3m
Model: WPC0GR2231R	
Manufacturer: Prima	

Note: Report No.:ATE20171983



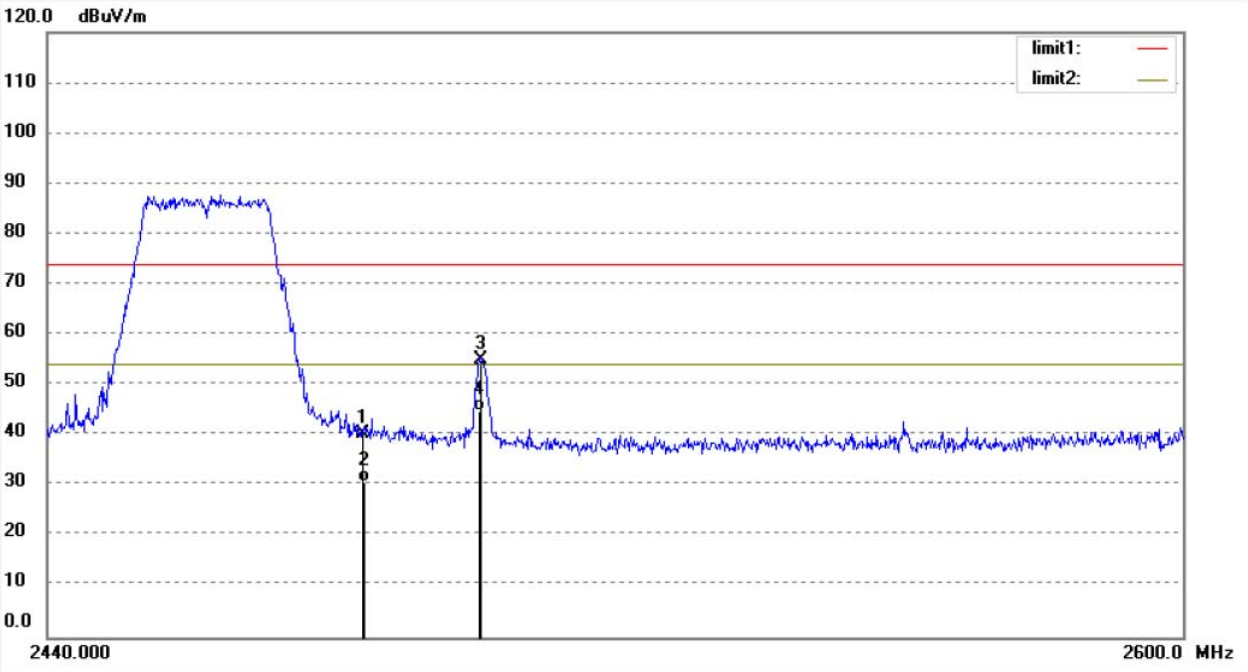
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2483.500	43.57	-5.89	37.68	74.00	-36.32	peak	200	193	
2	2483.500	33.57	-5.89	27.68	54.00	-26.32	AVG	200	210	
3	2500.000	57.78	-5.81	51.97	74.00	-22.03	peak	200	175	
4	2500.000	48.32	-5.81	42.51	54.00	-11.49	AVG	200	69	

Note: Average measurement with peak detection at No.2&4

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

Job No.: star2017 #894	Polarization: Vertical
Standard: FCC PK	Power Source: DC 12V
Test item: Radiation Test	Date: 17/10/16/
Temp.(C)/Hum.(%) 25 C / 55 %	Time: 16/20/03
EUT: WiFi module	Engineer Signature: star
Mode: TX Channel 11(802.11n20)	Distance: 3m
Model: WPC0GR2231R	
Manufacturer: Prima	

Note: Report No.:ATE20171983



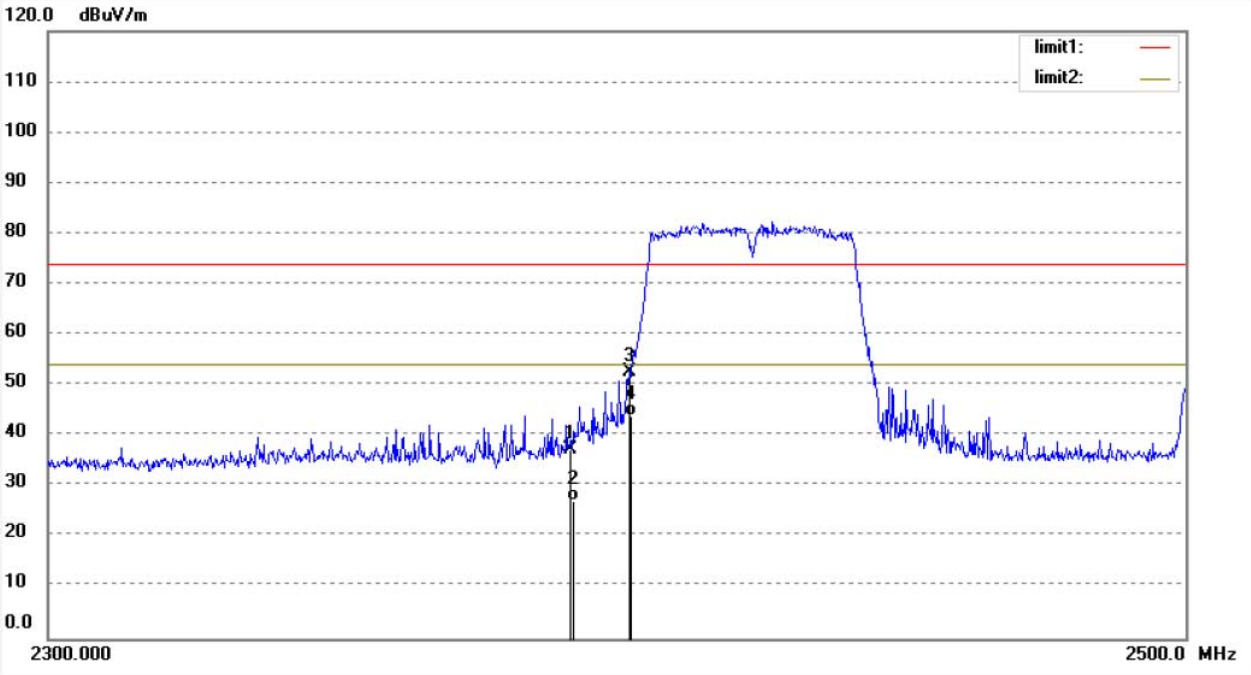
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2483.500	46.11	-5.89	40.22	74.00	-33.78	peak	150	195	
2	2483.500	36.51	-5.89	30.62	54.00	-23.38	AVG	150	224	
3	2500.000	60.87	-5.81	55.06	74.00	-18.94	peak	150	191	
4	2500.000	50.55	-5.81	44.74	54.00	-9.26	AVG	150	114	

Note: Average measurement with peak detection at No.2&4

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

Job No.: star2017 #898	Polarization: Horizontal
Standard: FCC PK	Power Source: DC 12V
Test item: Radiation Test	Date: 17/10/16/
Temp.(C)/Hum.(%) 25 C / 55 %	Time: 16/26/25
EUT: WiFi module	Engineer Signature: star
Mode: TX Channel 3(802.11n)40MHz	Distance: 3m
Model: WPC0GR2231R	
Manufacturer: Prima	

Note: Report No.:ATE20171983



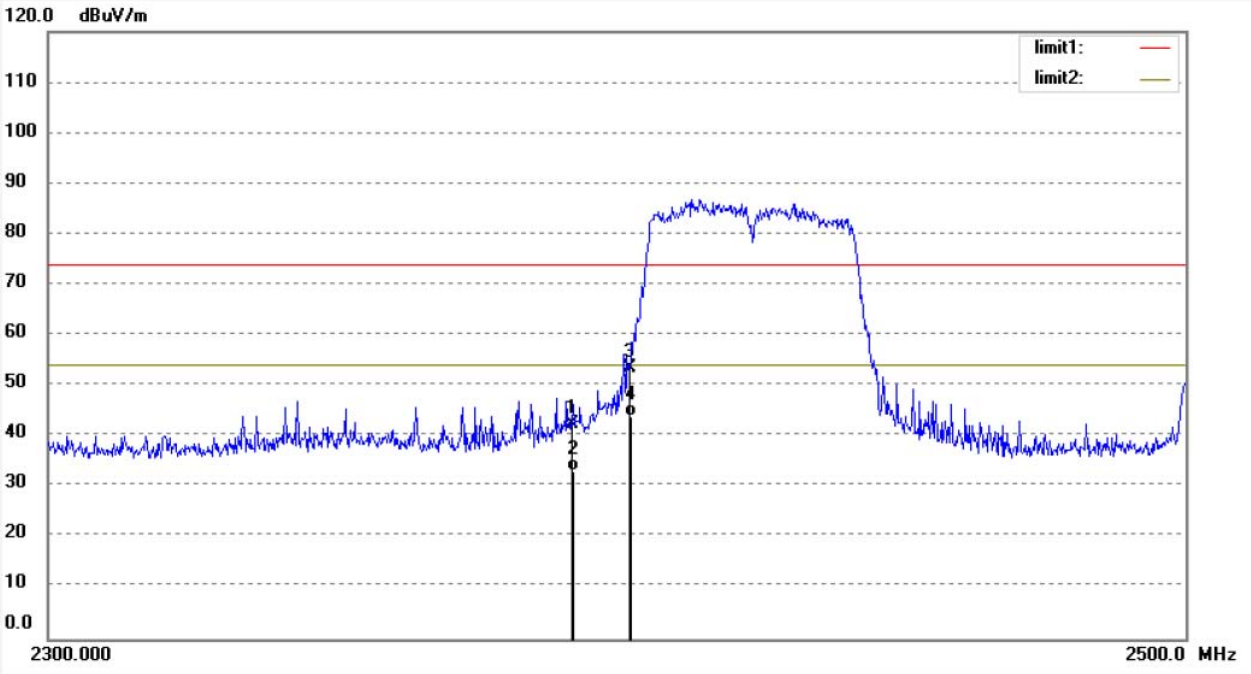
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2390.000	43.78	-6.32	37.46	74.00	-36.54	peak	200	34	
2	2390.000	33.60	-6.32	27.28	54.00	-26.72	AVG	200	118	
3	2400.000	59.07	-6.27	52.80	74.00	-21.20	peak	200	84	
4	2400.000	50.14	-6.27	43.87	54.00	-10.13	AVG	200	69	

Note: Average measurement with peak detection at No.2&4

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

Job No.: star2017 #899	Polarization: Vertical
Standard: FCC PK	Power Source: DC 12V
Test item: Radiation Test	Date: 17/10/16/
Temp.(C)/Hum.(%) 25 C / 55 %	Time: 16/27/44
EUT: WiFi module	Engineer Signature: star
Mode: TX Channel 3(802.11n)40MHz	Distance: 3m
Model: WPC0GR2231R	
Manufacturer: Prima	

Note: Report No.:ATE20171983



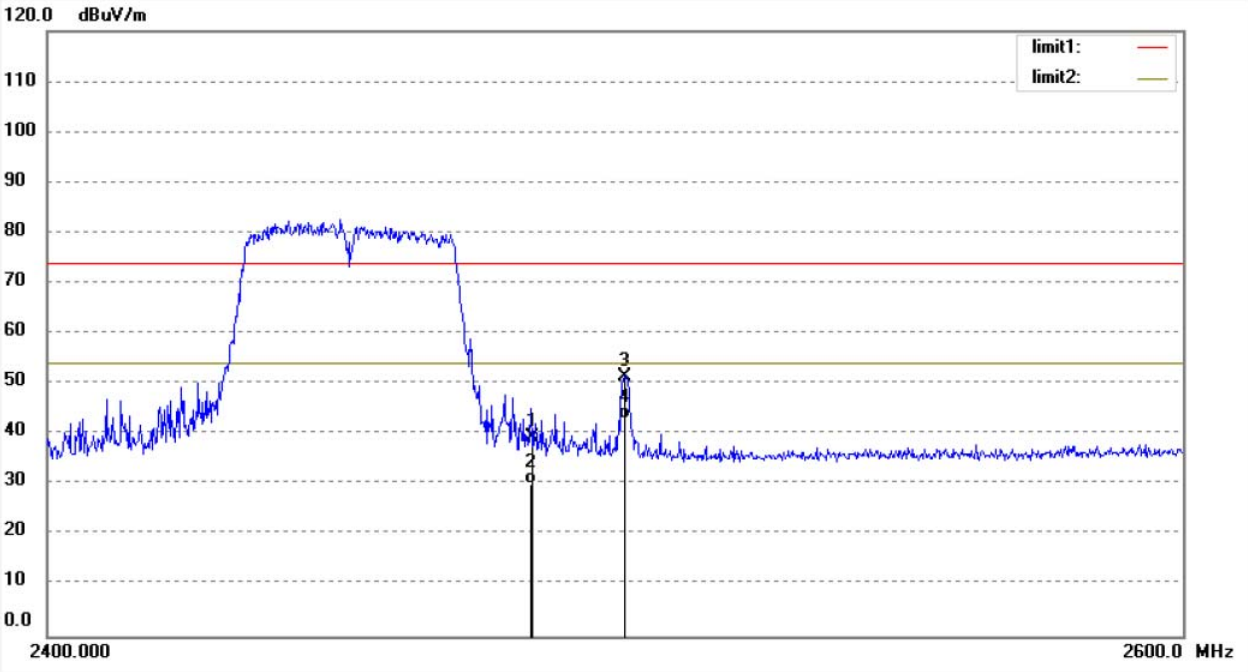
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2390.000	48.82	-6.32	42.50	74.00	-31.50	peak	150	99	
2	2390.000	39.56	-6.32	33.24	54.00	-20.76	AVG	150	124	
3	2400.000	59.84	-6.27	53.57	74.00	-20.43	peak	150	299	
4	2400.000	50.36	-6.27	44.09	54.00	-9.91	AVG	150	342	

Note: Average measurement with peak detection at No.2&4

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

Job No.: star2017 #901	Polarization: Horizontal
Standard: FCC PK	Power Source: DC 12V
Test item: Radiation Test	Date: 17/10/16/
Temp.(C)/Hum.(%) 25 C / 55 %	Time: 16/31/07
EUT: WiFi module	Engineer Signature: star
Mode: TX Channel 9(802.11n)40MHz	Distance: 3m
Model: WPC0GR2231R	
Manufacturer: Prima	

Note: Report No.:ATE20171983



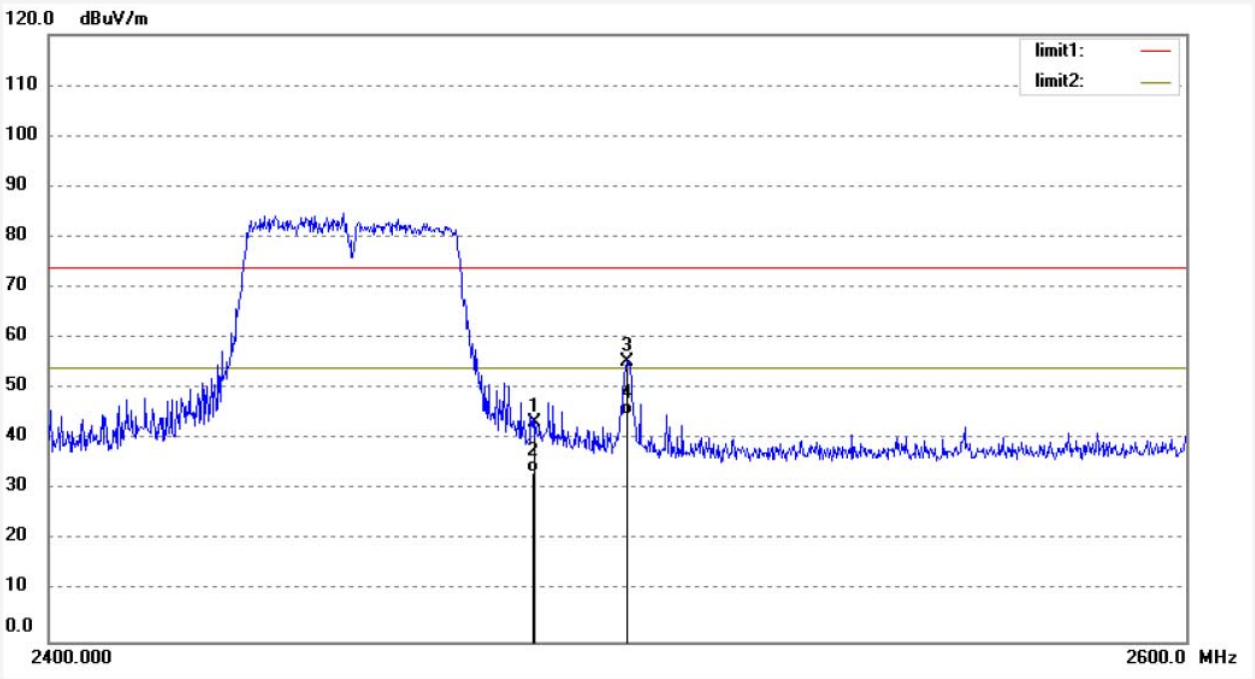
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2483.500	45.33	-5.89	39.44	74.00	-34.56	peak	200	178	
2	2483.500	36.14	-5.89	30.25	54.00	-23.75	AVG	200	160	
3	2500.000	57.37	-5.81	51.56	74.00	-22.44	peak	200	169	
4	2500.000	48.93	-5.81	43.12	54.00	-10.88	AVG	200	214	

Note: Average measurement with peak detection at No.2&4

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

Job No.: star2017 #900	Polarization: Vertical
Standard: FCC PK	Power Source: DC 12V
Test item: Radiation Test	Date: 17/10/16/
Temp.(C)/Hum.(%) 25 C / 55 %	Time: 16/29/52
EUT: WiFi module	Engineer Signature: star
Mode: TX Channel 9(802.11n)40MHz	Distance: 3m
Model: WPC0GR2231R	
Manufacturer: Prima	

Note: Report No.:ATE20171983



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2483.500	49.32	-5.89	43.43	74.00	-30.57	peak	150	360	
2	2483.500	39.47	-5.89	33.58	54.00	-20.42	AVG	150	287	
3	2500.000	61.25	-5.81	55.44	74.00	-18.56	peak	150	263	
4	2500.000	50.69	-5.81	44.88	54.00	-9.12	AVG	150	193	

Note: Average measurement with peak detection at No.2&4

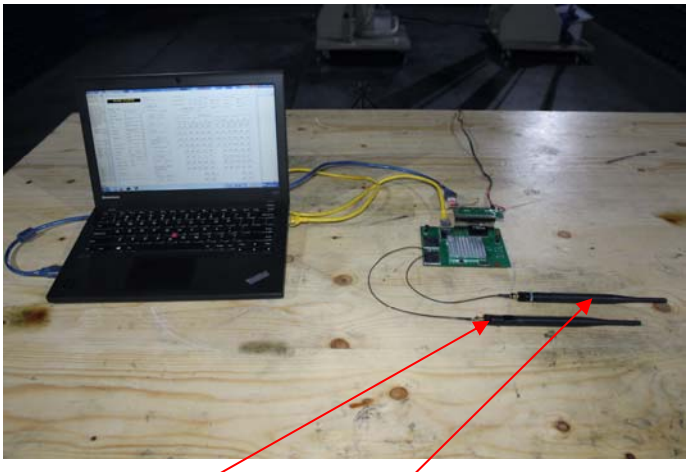
12. ANTENNA REQUIREMENT

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

The module must contain a permanently attached antenna, or contain a unique antenna connector, and be marketed and operated only with specific antenna(s), per Sections 15.203, 15.204(b), 15.204(c), 15.212(a), 2.929(b); The Antenna gain of EUT is 5dBi. Therefore, the equipment complies with the antenna requirement.



Antenna 1 Antenna 2