



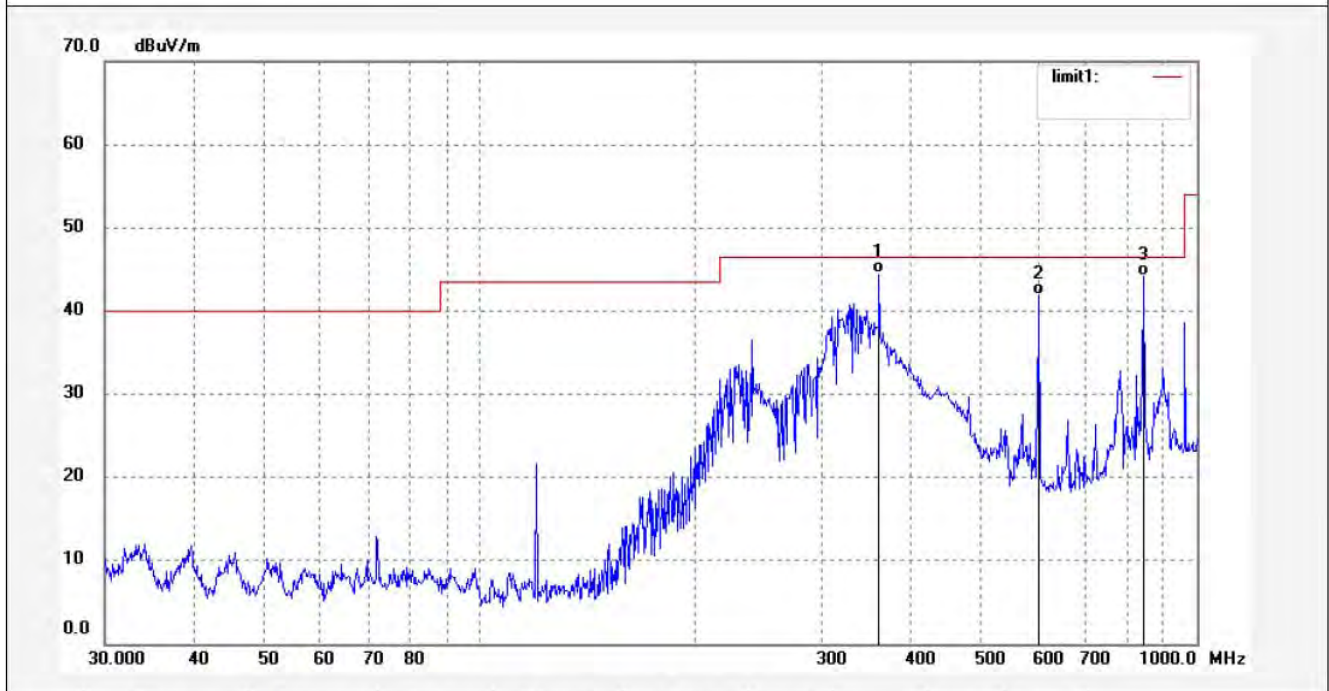
**ACCURATE TECHNOLOGY CO., LTD.**

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.: STAR #883	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 5V
Test item: Radiation Test	Date: 2013/05/29
Temp.( C)/Hum.(%) 26 C / 55 %	Time: 13:56:55
EUT: Mini Wireless AP Client	Engineer Signature: STAR
Mode: TX Channel 6(802.11n)20MHz	Distance: 3m
Model: WA150M	
Manufacturer: HAOLIYUAN	

Note: Report No.:ATE20131062



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	360.4476	60.37	-15.92	44.45	46.50	-2.05	QP			
2	601.4265	53.58	-11.65	41.93	46.50	-4.57	QP			
3	842.1295	51.27	-7.10	44.17	46.50	-2.33	QP			



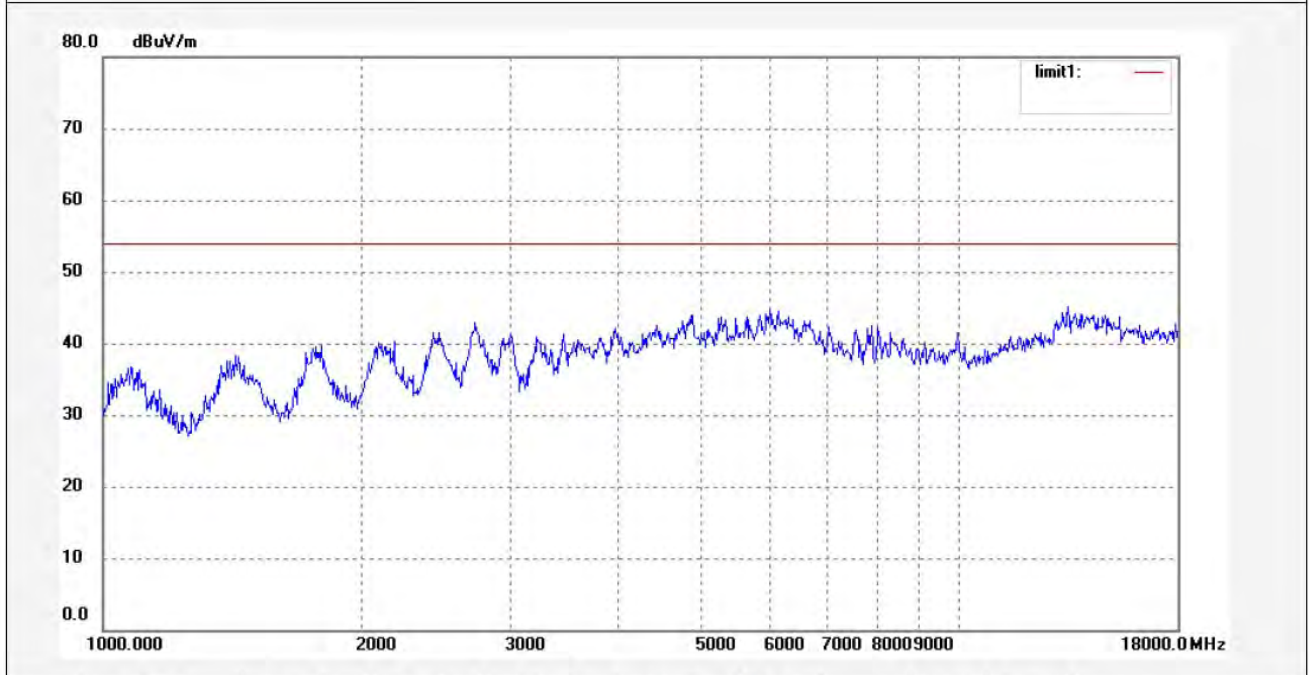
**ACCURATE TECHNOLOGY CO., LTD.**

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

Site: 2# Chamber  
Tel:+86-0755-26503290  
Fax:+86-0755-26503396

Job No.: star #3399	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 5V
Test item: Radiation Test	Date: 13/05/31/
Temp.( C)/Hum.(%) 26 C / 60 %	Time: 16/45/43
EUT: Mini Wireless AP Client	Engineer Signature:
Mode: TX Channel 6(802.11n)20MHz	Distance: 3m
Model: WA150M	
Manufacturer: HAOLIYUAN	

Note: Report No.:ATE20131062



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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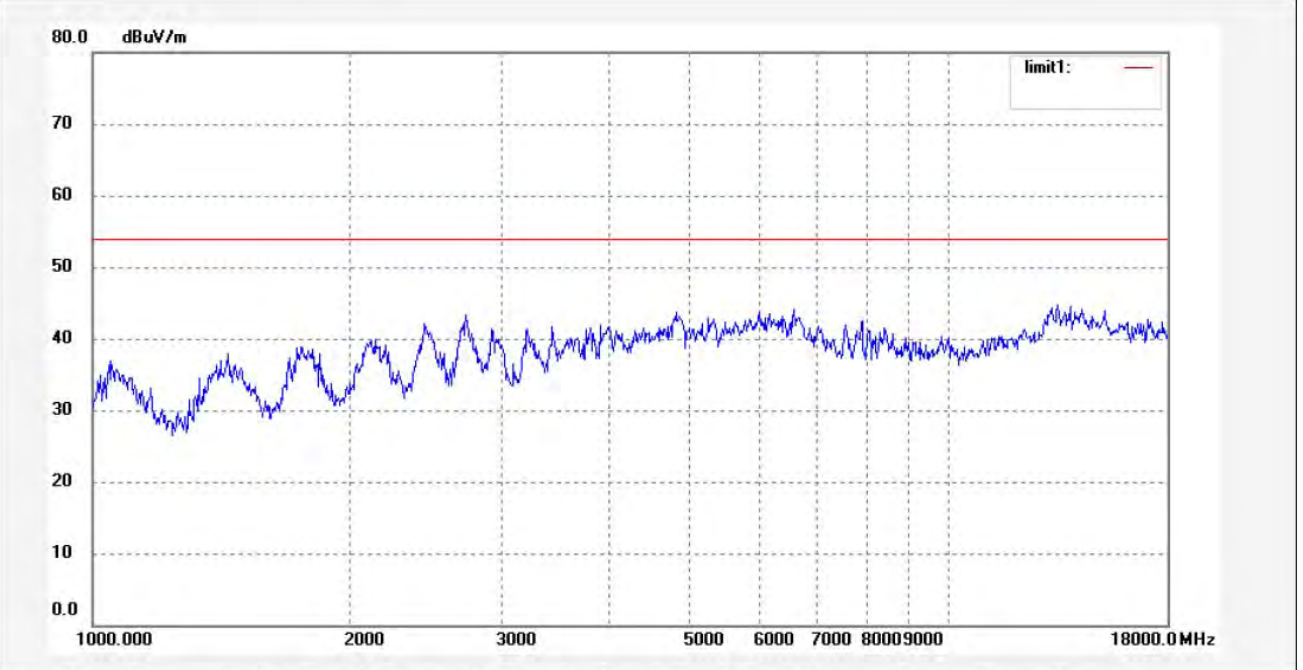
**ACCURATE TECHNOLOGY CO., LTD.**

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

Site: 2# Chamber  
Tel:+86-0755-26503290  
Fax:+86-0755-26503396

Job No.: star #3400	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 5V
Test item: Radiation Test	Date: 13/05/31/
Temp.( C)/Hum.(%) 26 C / 60 %	Time: 16/48/05
EUT: Mini Wireless AP Client	Engineer Signature:
Mode: TX Channel 6(802.11n)20MHz	Distance: 3m
Model: WA150M	
Manufacturer: HAOLIYUAN	

Note: Report No.:ATE20131062



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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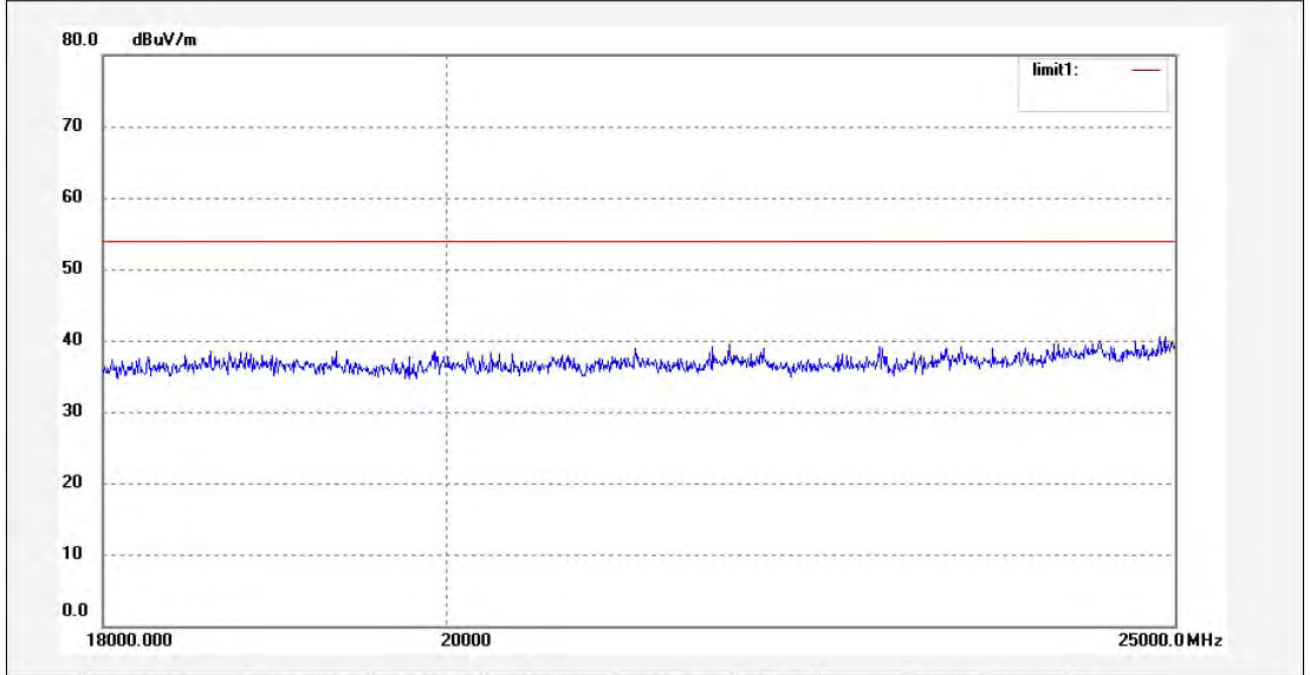
**ACCURATE TECHNOLOGY CO., LTD.**

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

Site: 2# Chamber  
Tel:+86-0755-26503290  
Fax:+86-0755-26503396

Job No.: star #3423	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 5V
Test item: Radiation Test	Date: 13/05/31/
Temp.( C)/Hum.(%) 26 C / 60 %	Time: 17/55/45
EUT: Mini Wireless AP Client	Engineer Signature:
Mode: TX Channel 6(802.11n)20MHz	Distance: 3m
Model: WA150M	
Manufacturer: HAOLIYUAN	

Note: Report No.:ATE20131062



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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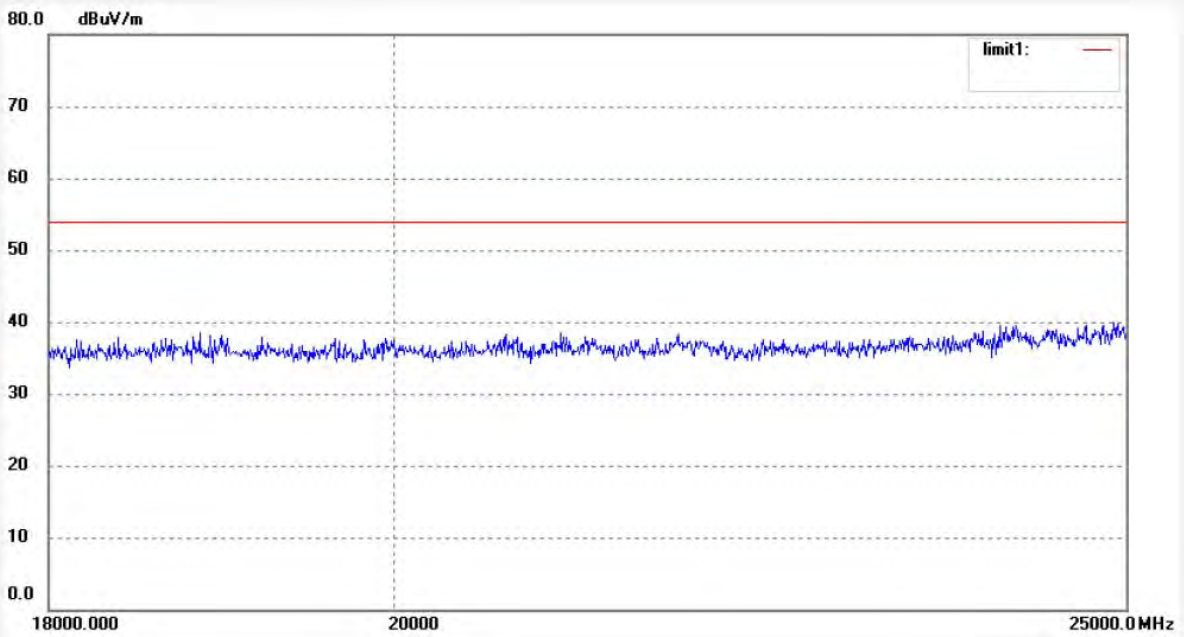
**ACCURATE TECHNOLOGY CO., LTD.**

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

Site: 2# Chamber  
Tel:+86-0755-26503290  
Fax:+86-0755-26503396

Job No.: star #3424	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 5V
Test item: Radiation Test	Date: 13/05/31/
Temp.( C)/Hum.(%) 26 C / 60 %	Time: 17/58/59
EUT: Mini Wireless AP Client	Engineer Signature:
Mode: TX Channel 6(802.11n)20MHz	Distance: 3m
Model: WA150M	
Manufacturer: HAOLIYUAN	

Note: Report No.:ATE20131062



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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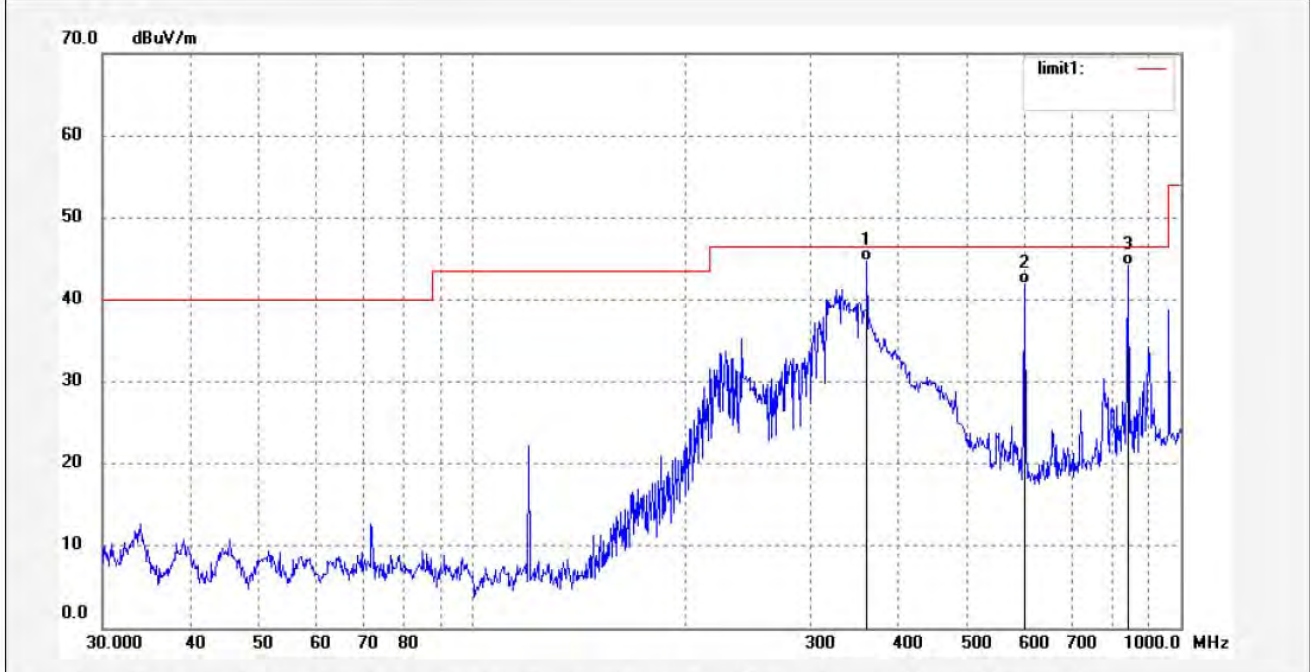
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F1,Bldg.A,Changyuan New Material Port Keyuan Rd,  
Science & Industry Park,Nanshan Shenzhen,P.R.China

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

Job No.: STAR #884	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 5V
Test item: Radiation Test	Date: 2013/05/29
Temp.( C)/Hum.(%) 26 C / 55 %	Time: 13:58:07
EUT: Mini Wireless AP Client	Engineer Signature: STAR
Mode: TX Channel 11(802.11n)20MHz	Distance: 3m
Model: WA150M	
Manufacturer: HAOLIYUAN	

Note: Report No.:ATE20131062



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	360.4476	60.59	-15.92	44.67	46.50	-1.83	QP			
2	601.4265	53.51	-11.65	41.86	46.50	-4.64	QP			
3	842.1295	51.35	-7.10	44.25	46.50	-2.25	QP			



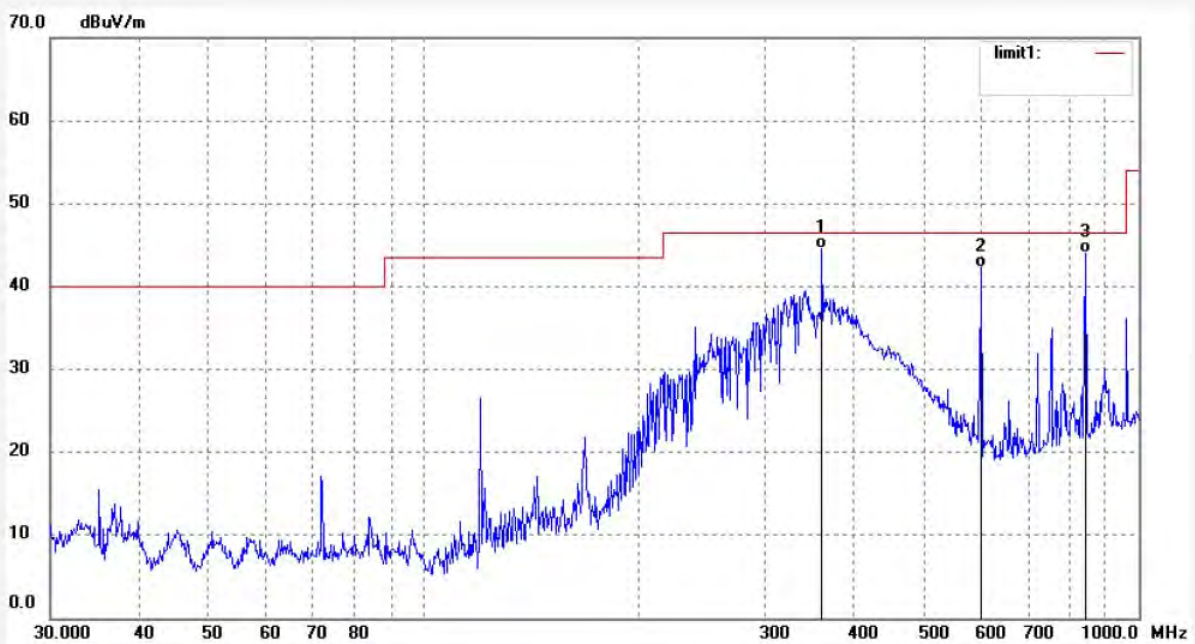
**ACCURATE TECHNOLOGY CO., LTD.**

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.: STAR #885	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 5V
Test item: Radiation Test	Date: 2013/05/29
Temp.( C)/Hum.(%) 26 C / 55 %	Time: 13:59:56
EUT: Mini Wireless AP Client	Engineer Signature: STAR
Mode: TX Channel 11(802.11n)20MHz	Distance: 3m
Model: WA150M	
Manufacturer: HAOLIYUAN	

Note: Report No.:ATE20131062



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	360.4476	60.48	-15.92	44.56	46.50	-1.94	QP			
2	601.4265	53.96	-11.65	42.31	46.50	-4.19	QP			
3	842.1296	51.11	-7.10	44.01	46.50	-2.49	QP			



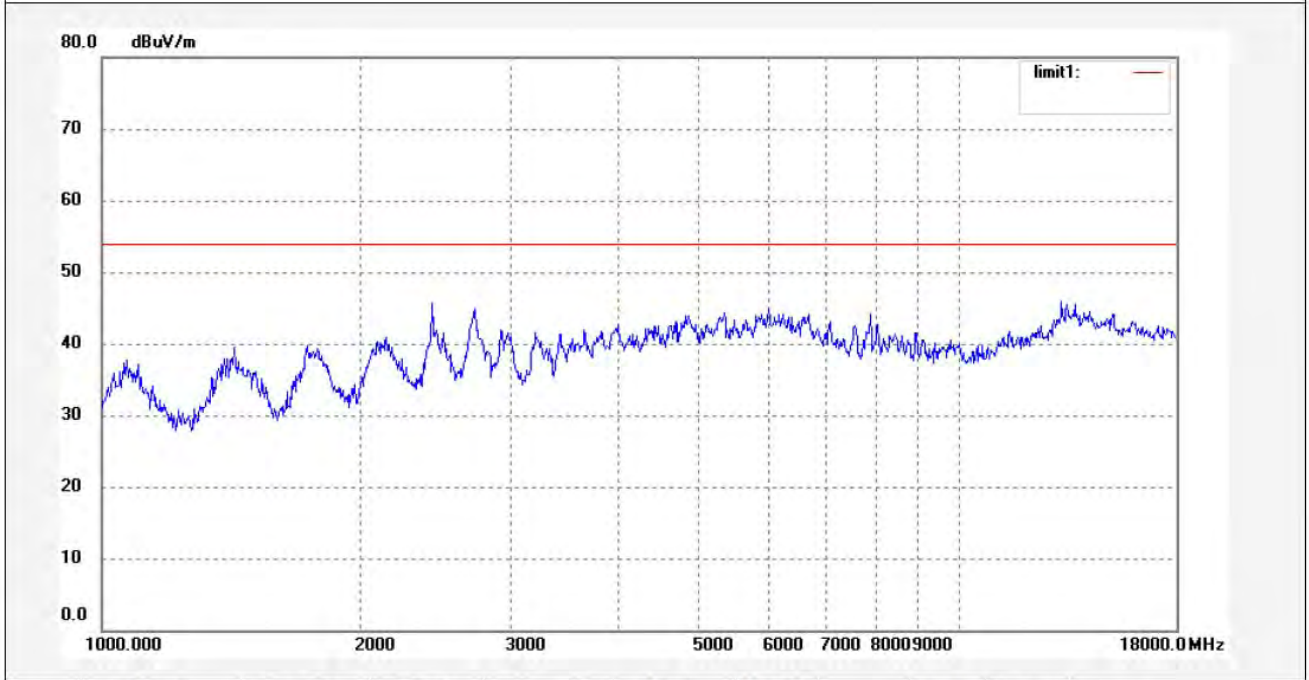
**ACCURATE TECHNOLOGY CO., LTD.**

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

Site: 2# Chamber  
Tel:+86-0755-26503290  
Fax:+86-0755-26503396

Job No.: star #3401	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 5V
Test item: Radiation Test	Date: 13/05/31/
Temp.( C)/Hum.(%) 26 C / 60 %	Time: 16/51/18
EUT: Mini Wireless AP Client	Engineer Signature:
Mode: TX Channel 11(802.11n)20MHz	Distance: 3m
Model: WA150M	
Manufacturer: HAOLIYUAN	

Note: Report No.:ATE20131062



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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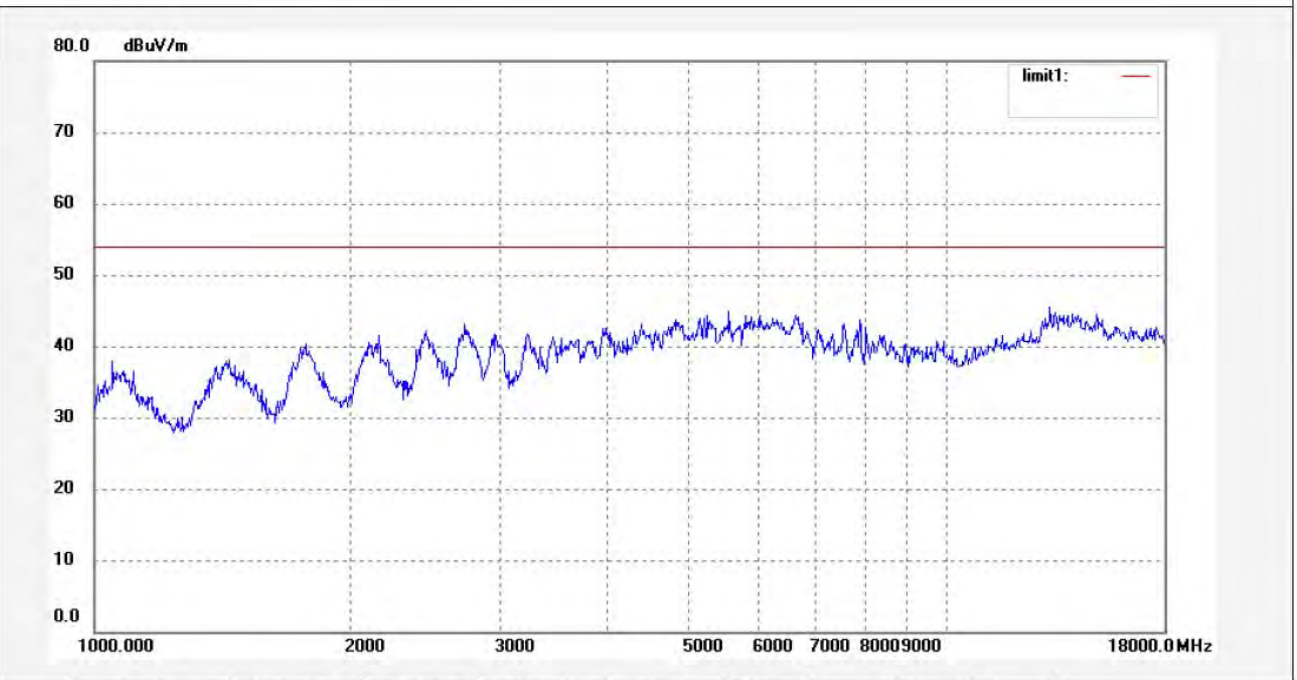
**ACCURATE TECHNOLOGY CO., LTD.**

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

Site: 2# Chamber  
Tel:+86-0755-26503290  
Fax:+86-0755-26503396

Job No.: star #3402	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 5V
Test item: Radiation Test	Date: 13/05/31/
Temp.( C)/Hum.(%) 26 C / 60 %	Time: 16/54/21
EUT: Mini Wireless AP Client	Engineer Signature:
Mode: TX Channel 11(802.11n)20MHz	Distance: 3m
Model: WA150M	
Manufacturer: HAOLIYUAN	

Note: Report No.:ATE20131062



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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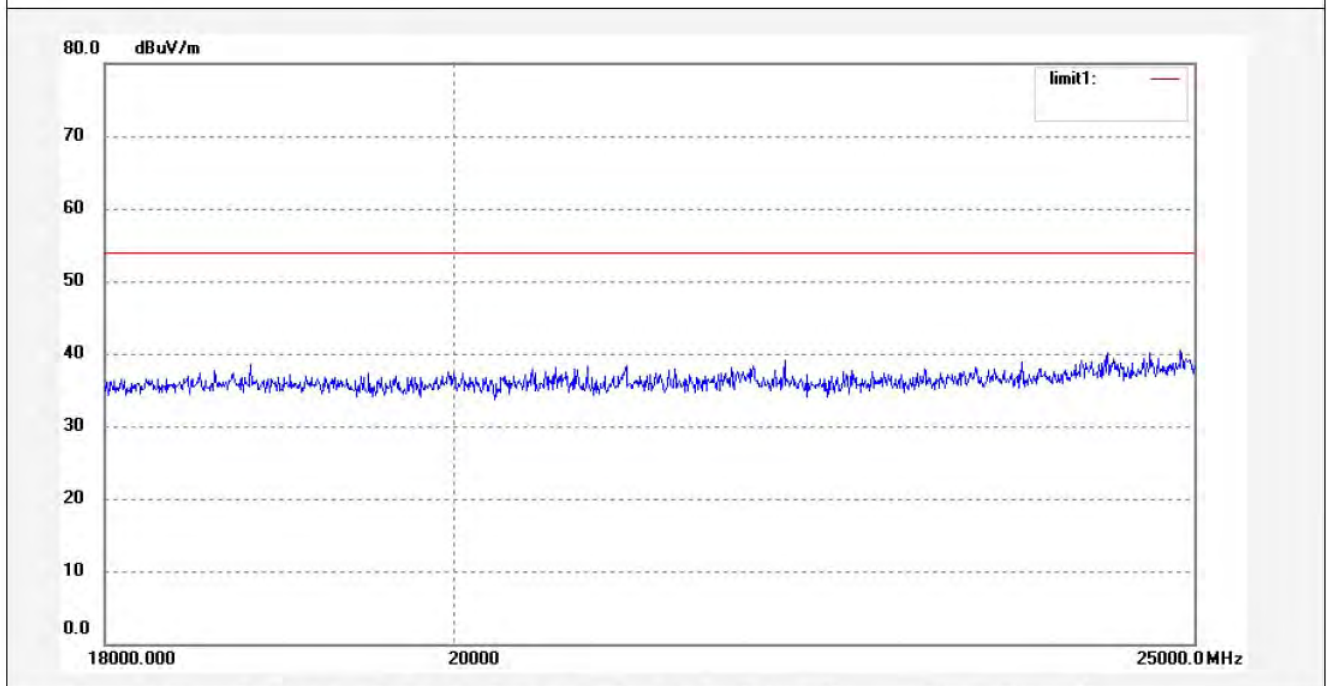
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F1,Bldg,A,Changyuan New Material Port Keyuan Rd,  
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber  
Tel:+86-0755-26503290  
Fax:+86-0755-26503396

Job No.: star #3425	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 5V
Test item: Radiation Test	Date: 13/05/31/
Temp.( C)/Hum.(%) 26 C / 60 %	Time: 18/02/16
EUT: Mini Wireless AP Client	Engineer Signature:
Mode: TX Channel 11(802.11n)20MHz	Distance: 3m
Model: WA150M	
Manufacturer: HAOLIYUAN	

Note: Report No.:ATE20131062



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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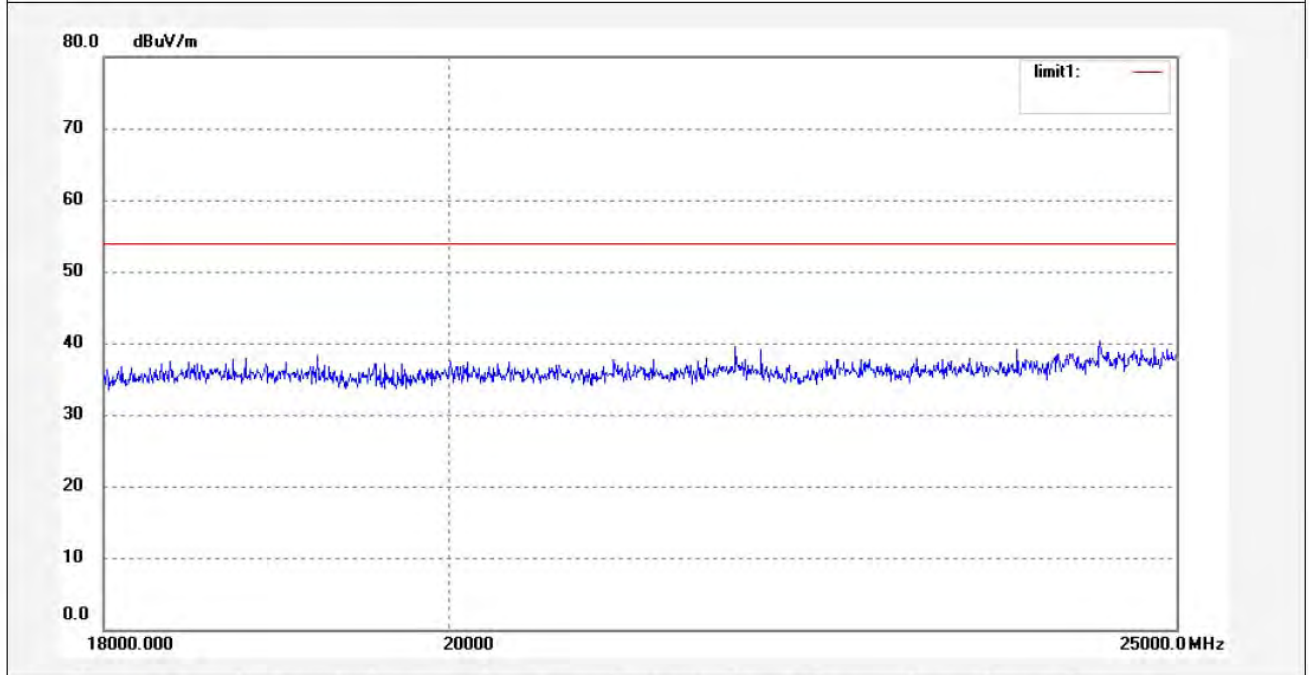
**ACCURATE TECHNOLOGY CO., LTD.**

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

Site: 2# Chamber  
Tel:+86-0755-26503290  
Fax:+86-0755-26503396

Job No.: star #3426	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 5V
Test item: Radiation Test	Date: 13/05/31/
Temp.( C)/Hum.(%) 26 C / 60 %	Time: 18/05/25
EUT: Mini Wireless AP Client	Engineer Signature:
Mode: TX Channel 11(802.11n)20MHz	Distance: 3m
Model: WA150M	
Manufacturer: HAOLIYUAN	

Note: Report No.:ATE20131062



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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**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.: STAR #886	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 5V
Test item: Radiation Test	Date: 2013/05/29
Temp.( C)/Hum.(%) 26 C / 55 %	Time: 14:01:13
EUT: Mini Wireless AP Client	Engineer Signature: STAR
Mode: TX Channel 3(802.11n)40MHz	Distance: 3m
Model: WA150M	
Manufacturer: HAOLIYUAN	

Note: Report No.:ATE20131062



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	360.4476	60.46	-15.92	44.54	46.50	-1.96	QP			
2	601.4265	54.65	-11.65	43.00	46.50	-3.50	QP			
3	842.1295	51.15	-7.10	44.05	46.50	-2.45	QP			



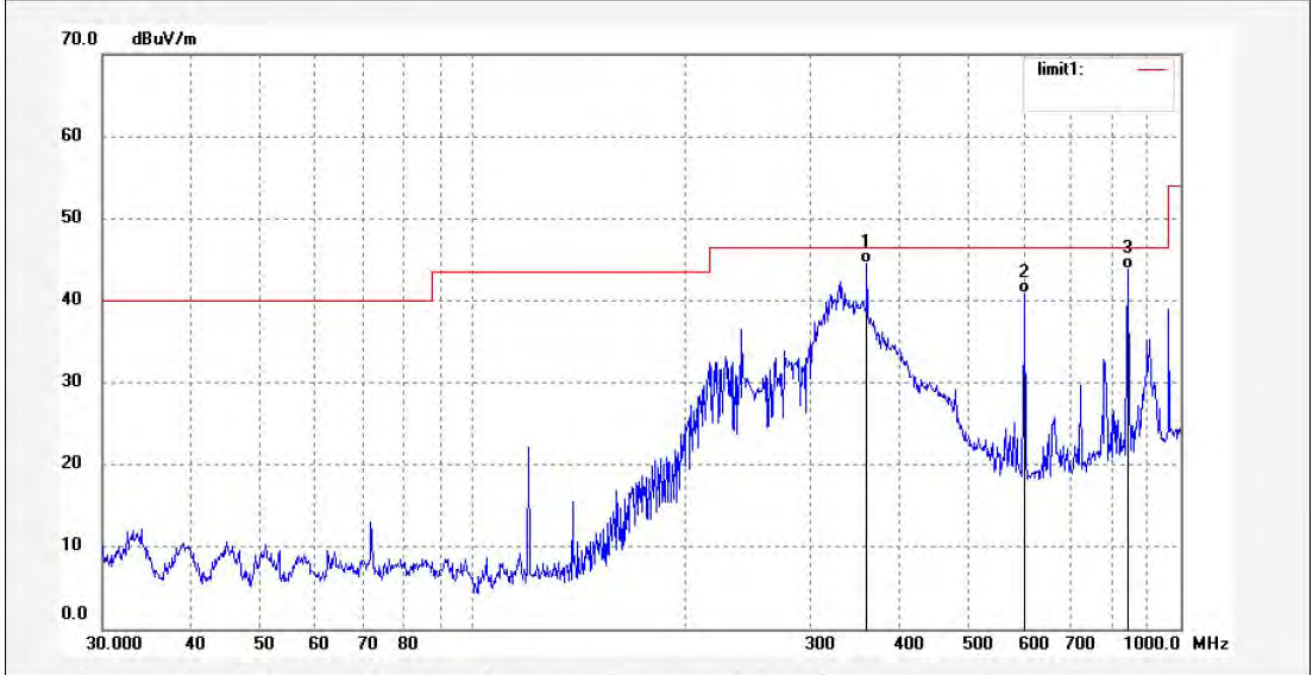
**ACCURATE TECHNOLOGY CO., LTD.**

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.: STAR #887	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 5V
Test item: Radiation Test	Date: 2013/05/29
Temp.( C)/Hum.(%) 26 C / 55 %	Time: 14:02:27
EUT: Mini Wireless AP Client	Engineer Signature: STAR
Mode: TX Channel 3(802.11n)40MHz	Distance: 3m
Model: WA150M	
Manufacturer: HAOLIYUAN	

Note: Report No.:ATE20131062



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	360.4476	60.43	-15.92	44.51	46.50	-1.99	QP			
2	601.4265	52.43	-11.65	40.78	46.50	-5.72	QP			
3	842.1295	50.89	-7.10	43.79	46.50	-2.71	QP			



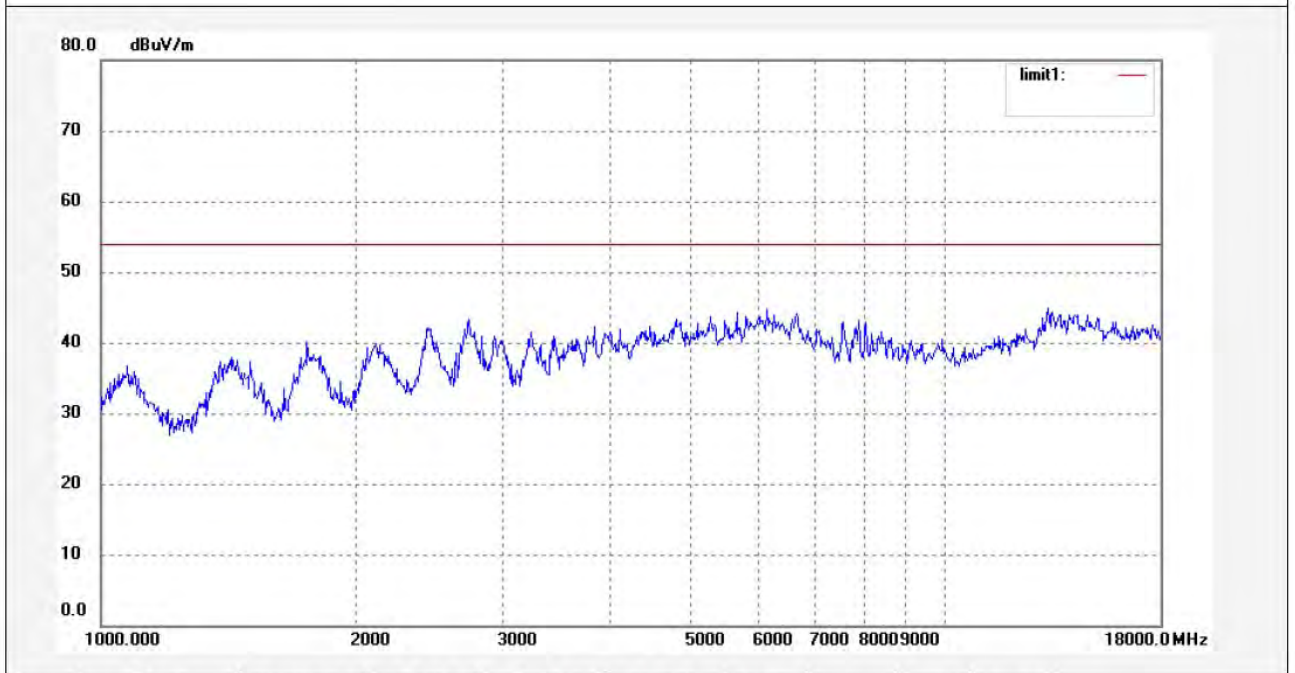
**ACCURATE TECHNOLOGY CO., LTD.**

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

Site: 2# Chamber  
Tel:+86-0755-26503290  
Fax:+86-0755-26503396

Job No.: star #3403	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 5V
Test item: Radiation Test	Date: 13/05/31/
Temp.( C)/Hum.(%) 26 C / 60 %	Time: 16/57/21
EUT: Mini Wireless AP Client	Engineer Signature:
Mode: TX Channel 3(802.11n)40MHz	Distance: 3m
Model: WA150M	
Manufacturer: HAOLIYUAN	

Note: Report No.:ATE20131062



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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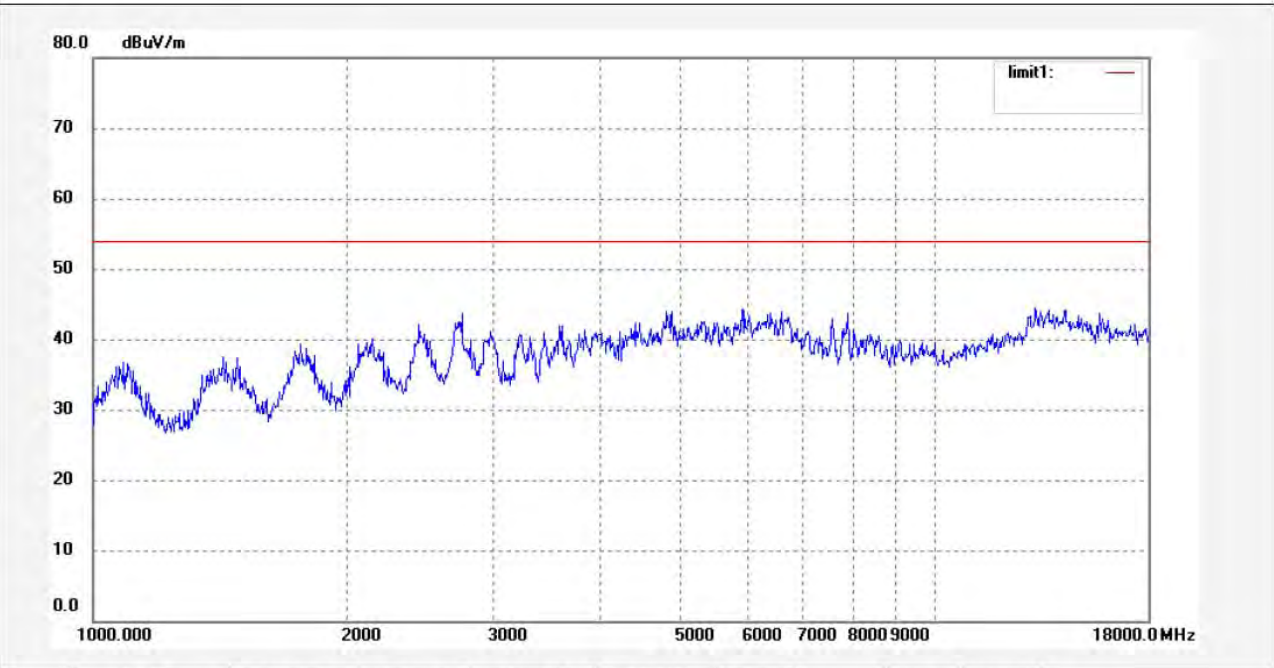
**ACCURATE TECHNOLOGY CO., LTD.**

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

Site: 2# Chamber  
Tel:+86-0755-26503290  
Fax:+86-0755-26503396

Job No.: star #3404	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 5V
Test item: Radiation Test	Date: 13/05/31/
Temp.( C)/Hum.(%) 26 C / 60 %	Time: 17/00/43
EUT: Mini Wireless AP Client	Engineer Signature:
Mode: TX Channel 3(802.11n)40MHz	Distance: 3m
Model: WA150M	
Manufacturer: HAOLIYUAN	

Note: Report No.:ATE20131062



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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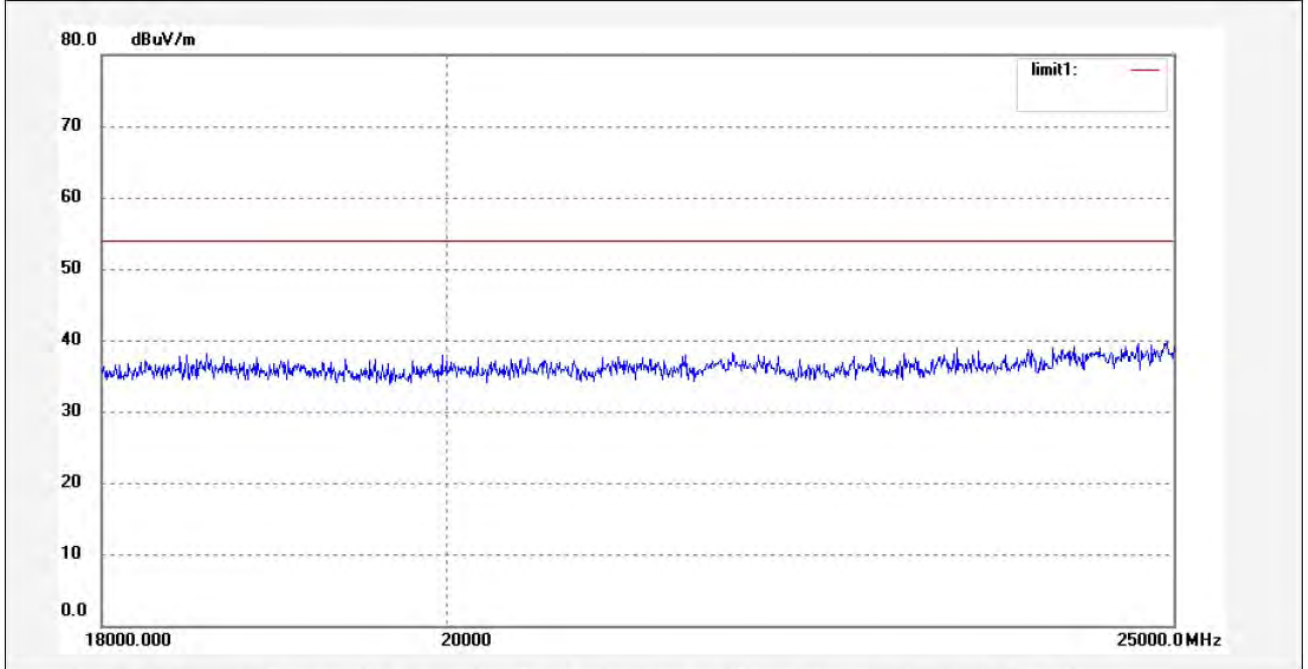
**ACCURATE TECHNOLOGY CO., LTD.**

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

Site: 2# Chamber  
Tel:+86-0755-26503290  
Fax:+86-0755-26503396

Job No.: star #3427	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 5V
Test item: Radiation Test	Date: 13/05/31/
Temp.( C)/Hum.(%) 26 C / 60 %	Time: 18/08/46
EUT: Mini Wireless AP Client	Engineer Signature:
Mode: TX Channel 3(802.11n)40MHz	Distance: 3m
Model: WA150M	
Manufacturer: HAOLIYUAN	

Note: Report No.:ATE20131062



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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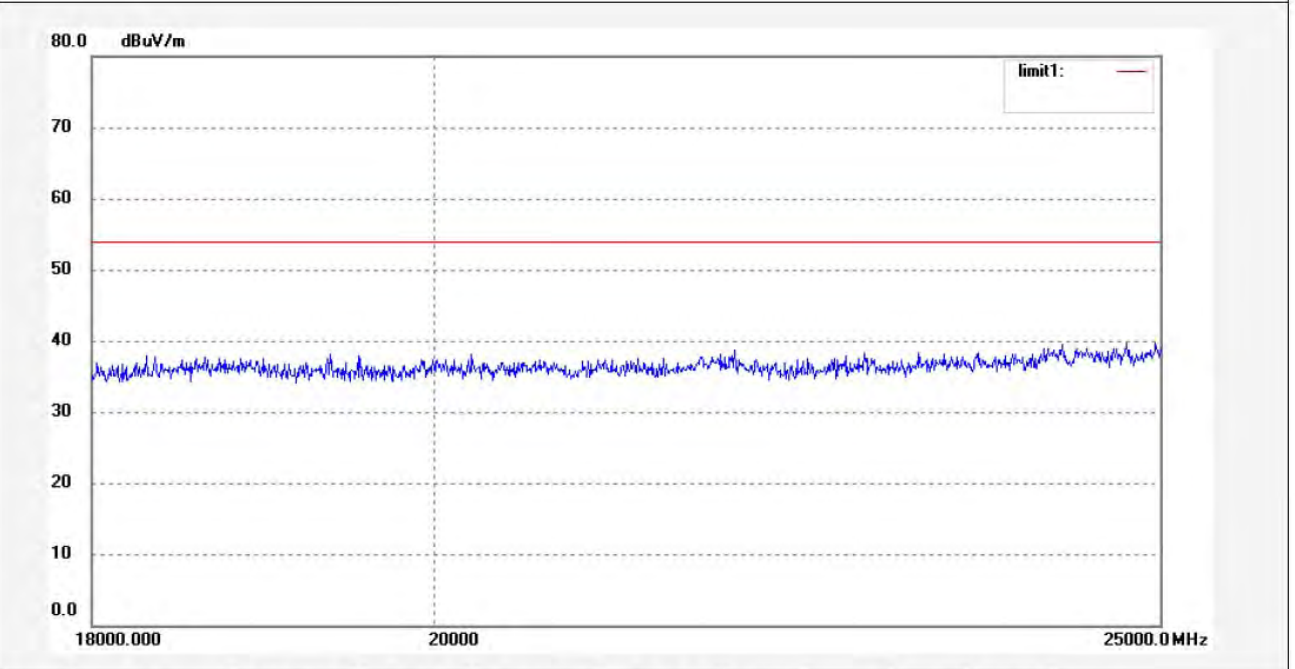
**ACCURATE TECHNOLOGY CO., LTD.**

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

Site: 2# Chamber  
Tel:+86-0755-26503290  
Fax:+86-0755-26503396

Job No.: star #3428	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 5V
Test item: Radiation Test	Date: 13/05/31/
Temp.( C)/Hum.(%) 26 C / 60 %	Time: 18/11/58
EUT: Mini Wireless AP Client	Engineer Signature:
Mode: TX Channel 3(802.11n)40MHz	Distance: 3m
Model: WA150M	
Manufacturer: HAOLIYUAN	

Note: Report No.:ATE20131062



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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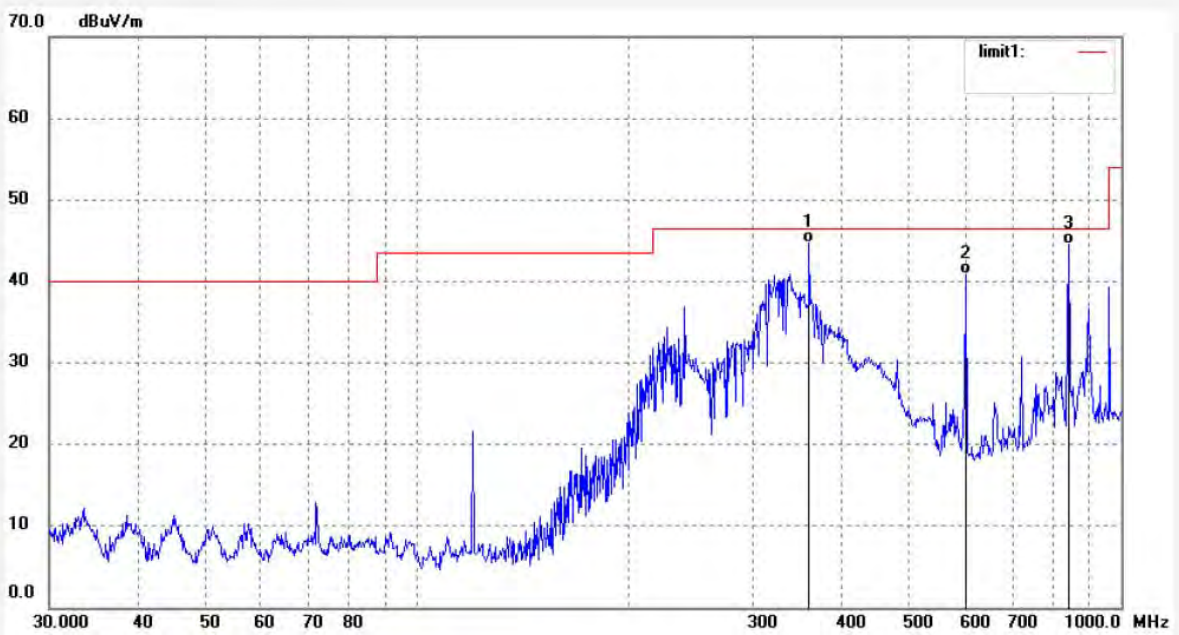
**ACCURATE TECHNOLOGY CO., LTD.**

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.: STAR #888	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 5V
Test item: Radiation Test	Date: 2013/05/29
Temp.( C)/Hum.(%) 26 C / 55 %	Time: 14:03:16
EUT: Mini Wireless AP Client	Engineer Signature: STAR
Mode: TX Channel 6(802.11n)40MHz	Distance: 3m
Model: WA150M	
Manufacturer: HAOLIYUAN	

Note: Report No.:ATE20131062



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	360.4476	60.59	-15.92	44.67	46.50	-1.83	QP			
2	601.4265	52.44	-11.65	40.79	46.50	-5.71	QP			
3	842.1295	51.56	-7.10	44.46	46.50	-2.04	QP			



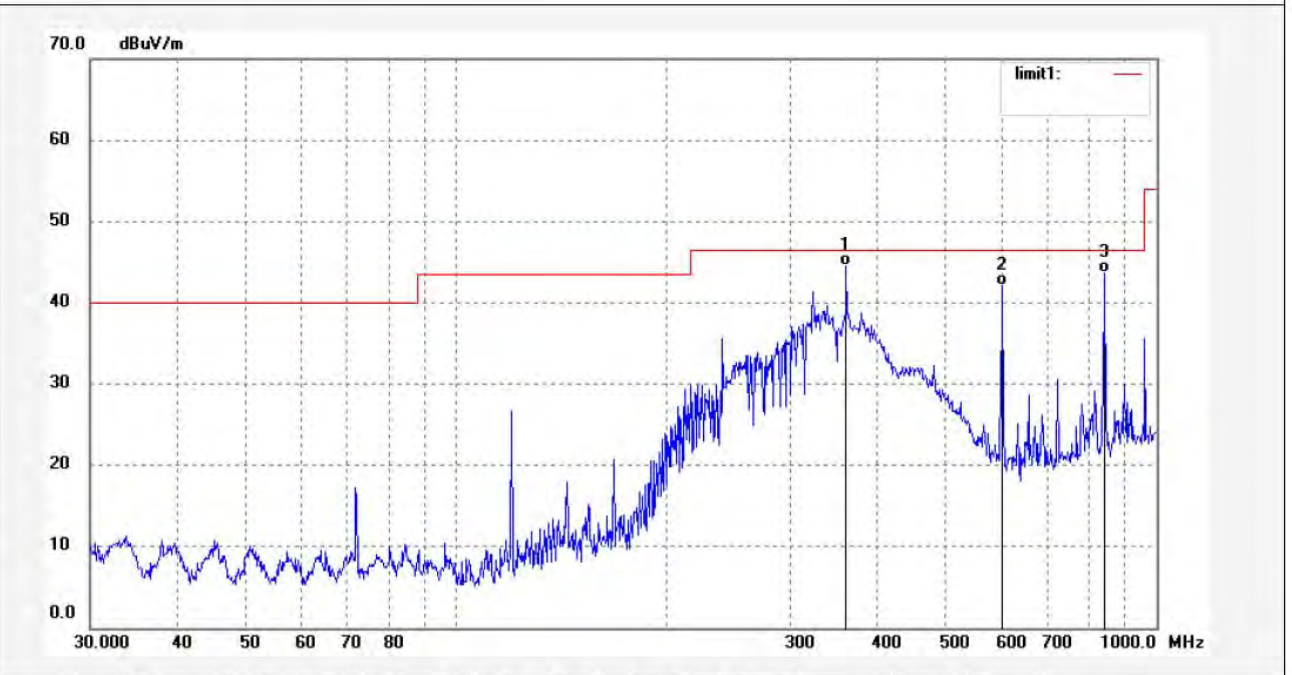
**ACCURATE TECHNOLOGY CO., LTD.**

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.: STAR #889	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 5V
Test item: Radiation Test	Date: 2013/05/29
Temp.( C)/Hum.(%) 26 C / 55 %	Time: 14:03:58
EUT: Mini Wireless AP Client	Engineer Signature: STAR
Mode: TX Channel 6(802.11n)40MHz	Distance: 3m
Model: WA150M	
Manufacturer: HAOLIYUAN	

Note: Report No.:ATE20131062



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	360.4476	60.40	-15.92	44.48	46.50	-2.02	QP			
2	601.4265	53.75	-11.65	42.10	46.50	-4.40	QP			
3	842.1295	50.69	-7.10	43.59	46.50	-2.91	QP			



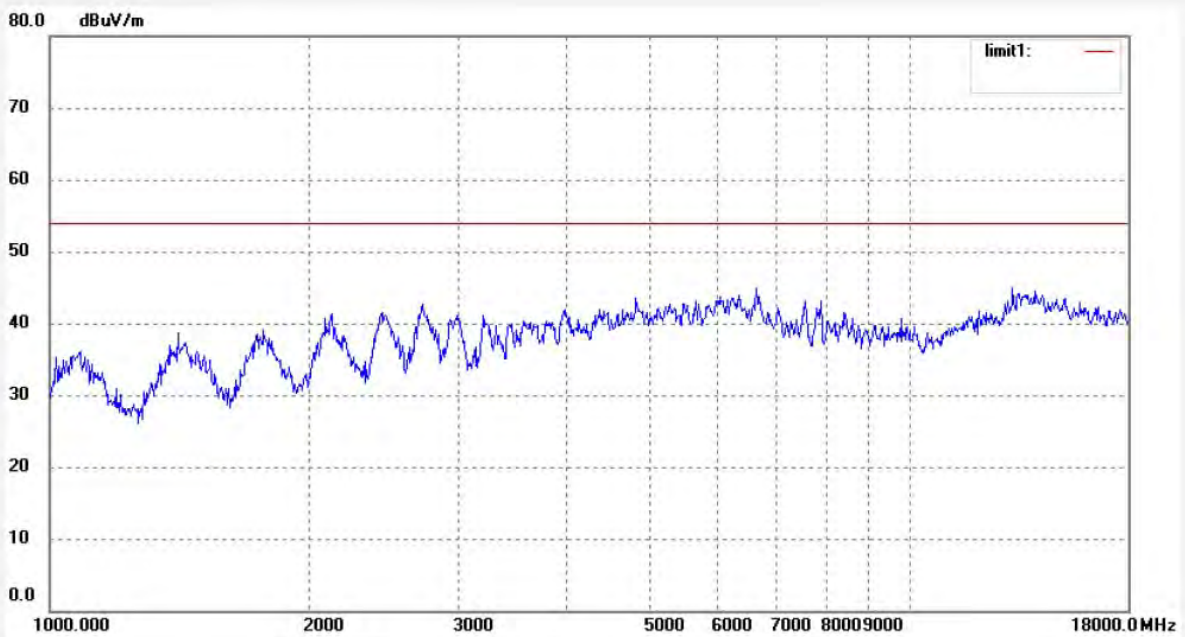
**ACCURATE TECHNOLOGY CO., LTD.**

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

Site: 2# Chamber  
Tel:+86-0755-26503290  
Fax:+86-0755-26503396

Job No.: star #3405	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 5V
Test item: Radiation Test	Date: 13/05/31/
Temp.( C)/Hum.(%) 26 C / 60 %	Time: 17/03/52
EUT: Mini Wireless AP Client	Engineer Signature:
Mode: TX Channel 6(802.11n)40MHz	Distance: 3m
Model: WA150M	
Manufacturer: HAOLIYUAN	

Note: Report No.:ATE20131062



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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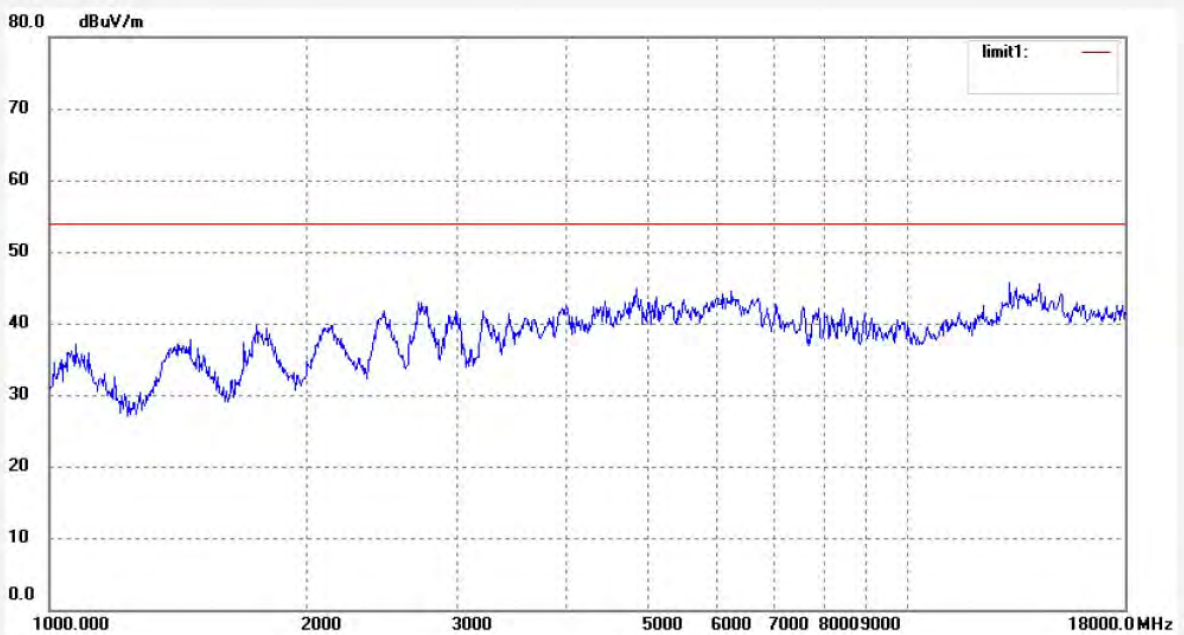
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Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber  
Tel:+86-0755-26503290  
Fax:+86-0755-26503396

Job No.: star #3406	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 5V
Test item: Radiation Test	Date: 13/05/31/
Temp.( C)/Hum.(%) 26 C / 60 %	Time: 17/07/29
EUT: Mini Wireless AP Client	Engineer Signature:
Mode: TX Channel 6(802.11n)40MHz	Distance: 3m
Model: WA150M	
Manufacturer: HAOLIYUAN	

Note: Report No.:ATE20131062



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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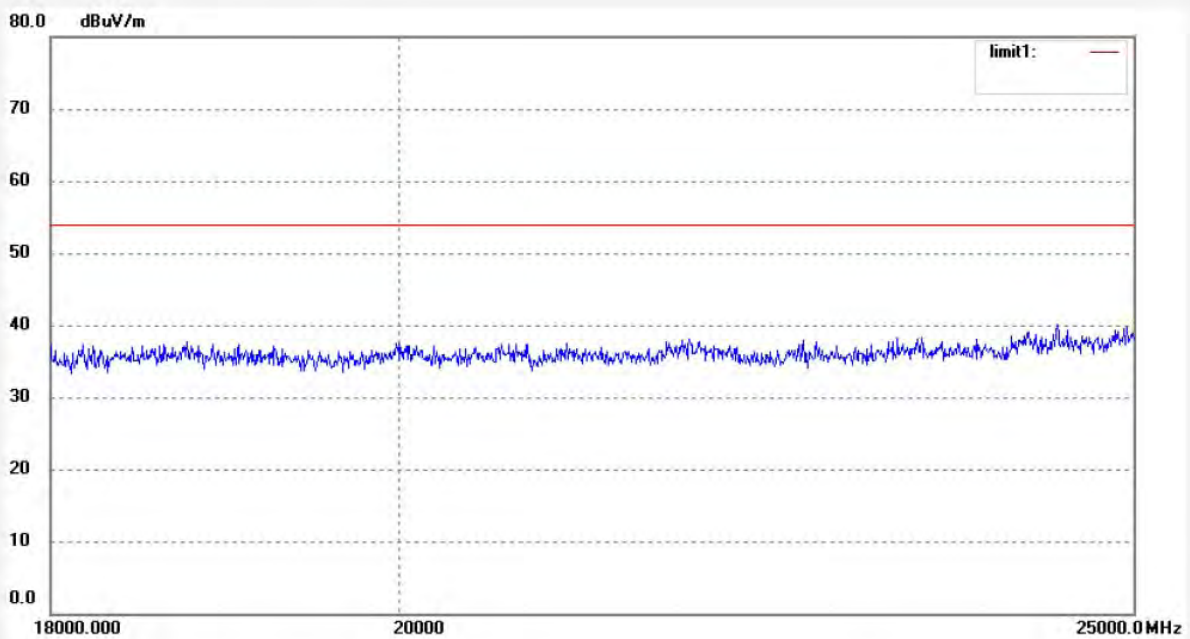
**ACCURATE TECHNOLOGY CO., LTD.**

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

Site: 2# Chamber  
Tel:+86-0755-26503290  
Fax:+86-0755-26503396

Job No.: star #3429	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 5V
Test item: Radiation Test	Date: 13/05/31/
Temp.( C)/Hum.(%) 26 C / 60 %	Time: 18/16/35
EUT: Mini Wireless AP Client	Engineer Signature:
Mode: TX Channel 6(802.11n)40MHz	Distance: 3m
Model: WA150M	
Manufacturer: HAOLIYUAN	

Note: Report No.:ATE20131062



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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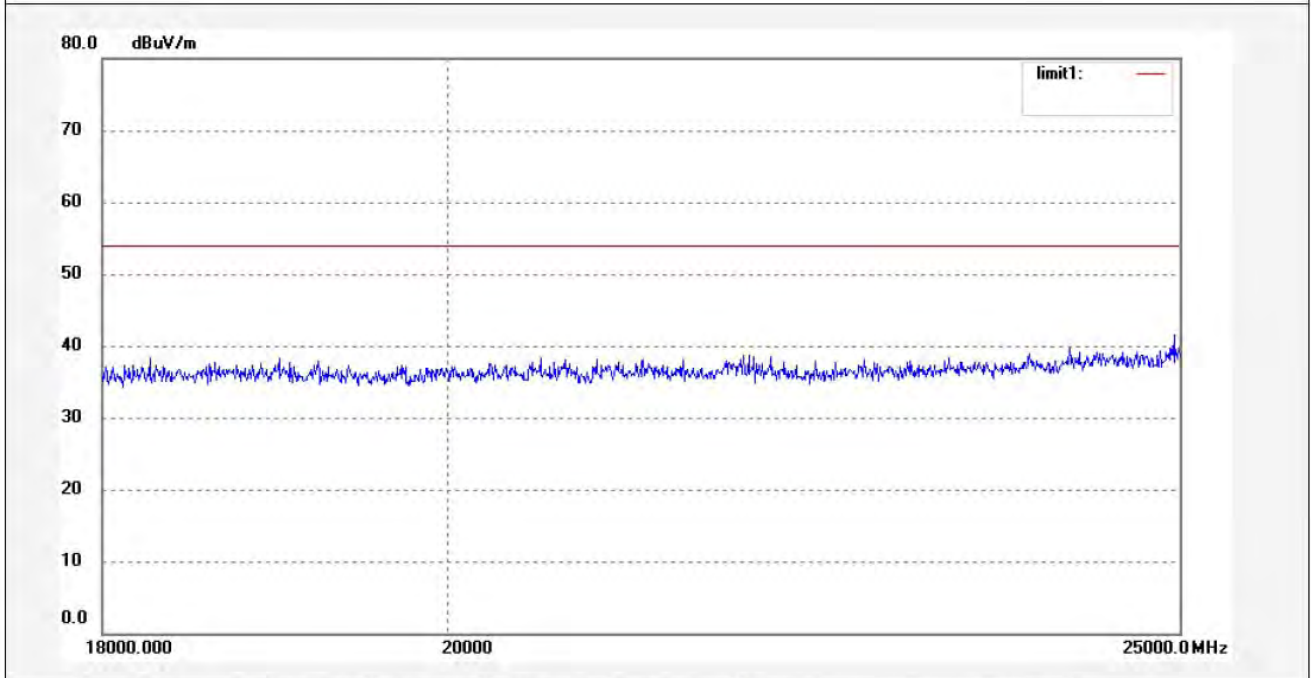


**ACCURATE TECHNOLOGY CO., LTD.**  
 F1,Bldg,A,Changyuan New Material Port Keyuan Rd,  
 Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber  
 Tel:+86-0755-26503290  
 Fax:+86-0755-26503396

Job No.: star #3430	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 5V
Test item: Radiation Test	Date: 13/05/31/
Temp.( C)/Hum.(%) 26 C / 60 %	Time: 18/19/49
EUT: Mini Wireless AP Client	Engineer Signature:
Mode: TX Channel 6(802.11n)40MHz	Distance: 3m
Model: WA150M	
Manufacturer: HAOLIYUAN	

Note: Report No.:ATE20131062



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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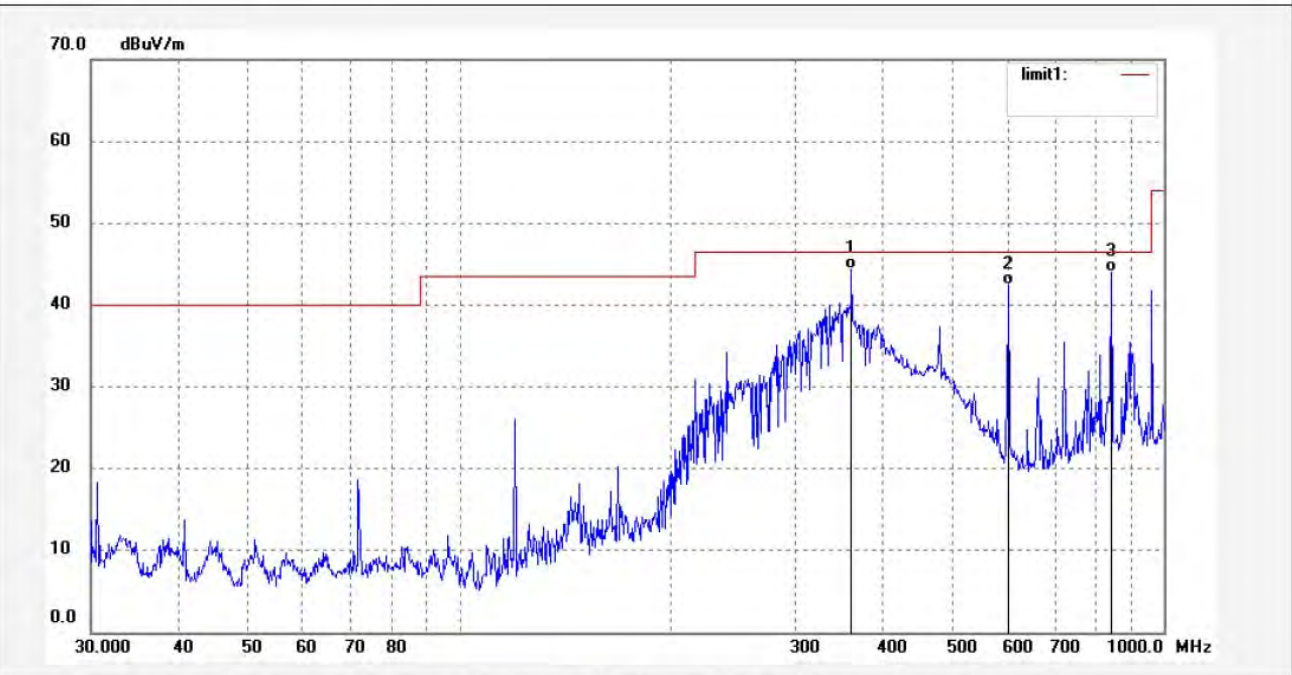
**ACCURATE TECHNOLOGY CO., LTD.**

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Science & Industry Park,Nanshan Shenzhen,P.R.China

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

Job No.: STAR #890	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 5V
Test item: Radiation Test	Date: 2013/05/29
Temp.( C)/Hum.(%) 26 C / 55 %	Time: 14:05:00
EUT: Mini Wireless AP Client	Engineer Signature: STAR
Mode: TX Channel 9(802.11n)40MHz	Distance: 3m
Model: WA150M	
Manufacturer: HAOLIYUAN	

Note: Report No.:ATE20131062



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	360.4476	60.29	-15.92	44.37	46.50	-2.13	QP			
2	601.4265	54.10	-11.65	42.45	46.50	-4.05	QP			
3	842.1295	51.12	-7.10	44.02	46.50	-2.48	QP			





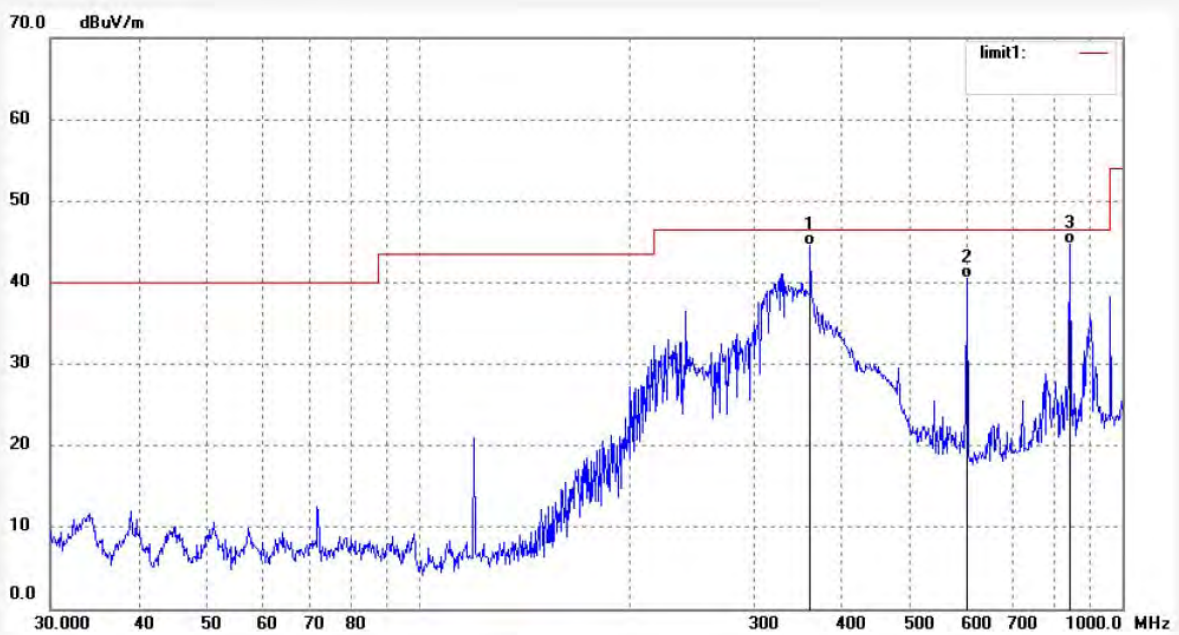
**ACCURATE TECHNOLOGY CO., LTD.**

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.: STAR #891	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 5V
Test item: Radiation Test	Date: 2013/05/29
Temp.( C)/Hum.(%) 26 C / 55 %	Time: 14:06:27
EUT: Mini Wireless AP Client	Engineer Signature: STAR
Mode: TX Channel 9(802.11n)40MHz	Distance: 3m
Model: WA150M	
Manufacturer: HAOLIYUAN	

Note: Report No.:ATE20131062



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	360.4476	60.47	-15.92	44.55	46.50	-1.95	QP			
2	601.4265	52.24	-11.65	40.59	46.50	-5.91	QP			
3	842.1296	51.80	-7.10	44.70	46.50	-1.80	QP			



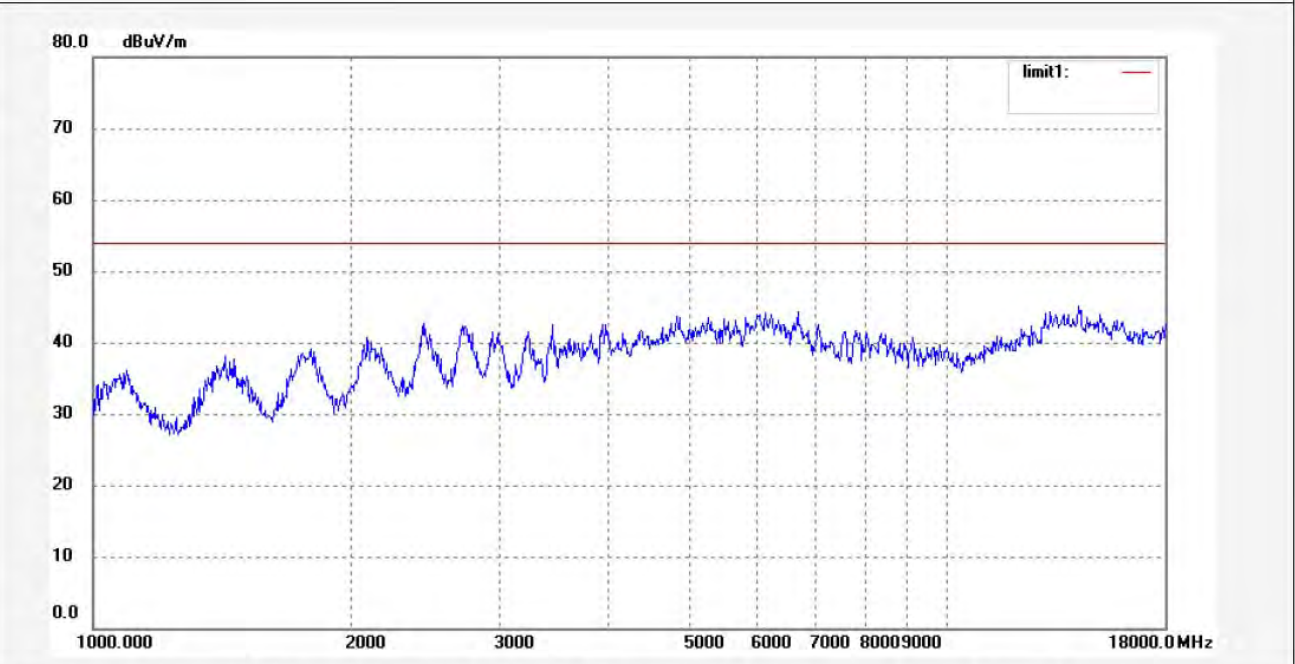
**ACCURATE TECHNOLOGY CO., LTD.**

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

Site: 2# Chamber  
Tel:+86-0755-26503290  
Fax:+86-0755-26503396

Job No.: star #3407	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 5V
Test item: Radiation Test	Date: 13/05/31/
Temp.( C)/Hum.(%) 26 C / 60 %	Time: 17/10/51
EUT: Mini Wireless AP Client	Engineer Signature:
Mode: TX Channel 9(802.11n)40MHz	Distance: 3m
Model: WA150M	
Manufacturer: HAOLIYUAN	

Note: Report No.:ATE20131062



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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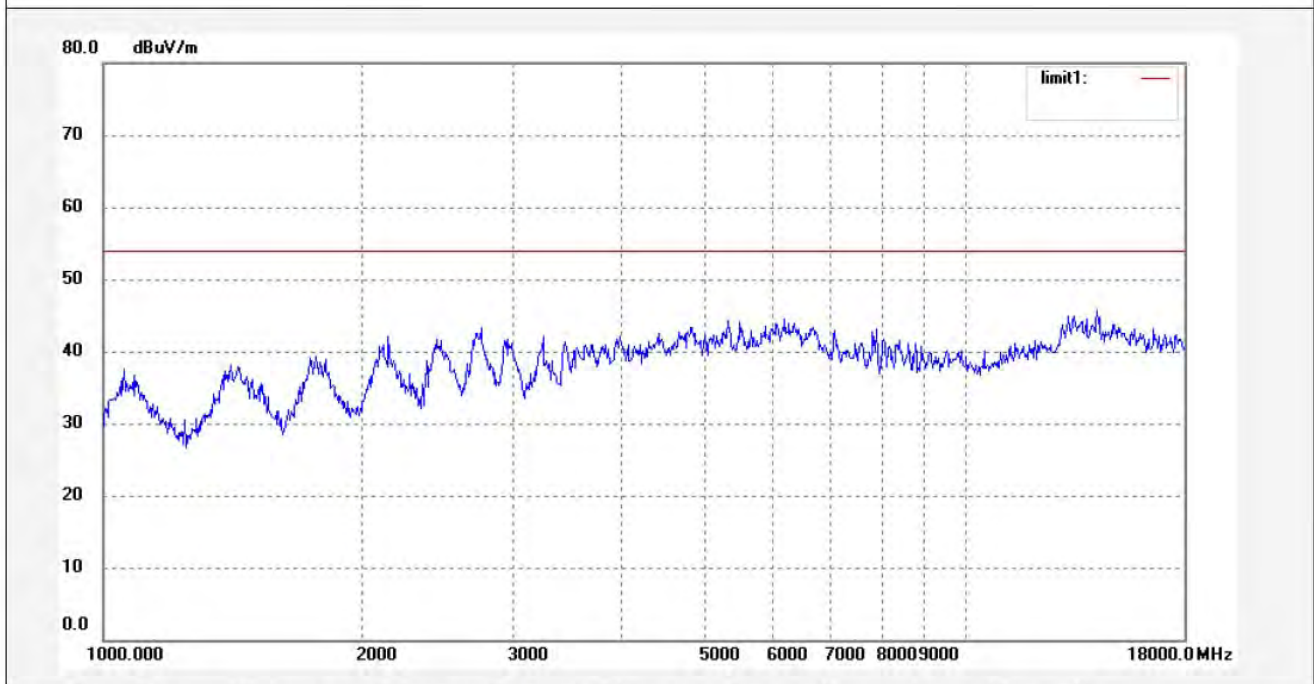
**ACCURATE TECHNOLOGY CO., LTD.**

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

Site: 2# Chamber  
Tel:+86-0755-26503290  
Fax:+86-0755-26503396

Job No.: star #3408	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 5V
Test item: Radiation Test	Date: 13/05/31/
Temp.( C)/Hum.(%) 26 C / 60 %	Time: 17/12/22
EUT: Mini Wireless AP Client	Engineer Signature:
Mode: TX Channel 9(802.11n)40MHz	Distance: 3m
Model: WA150M	
Manufacturer: HAOLIYUAN	

Note: Report No.:ATE20131062



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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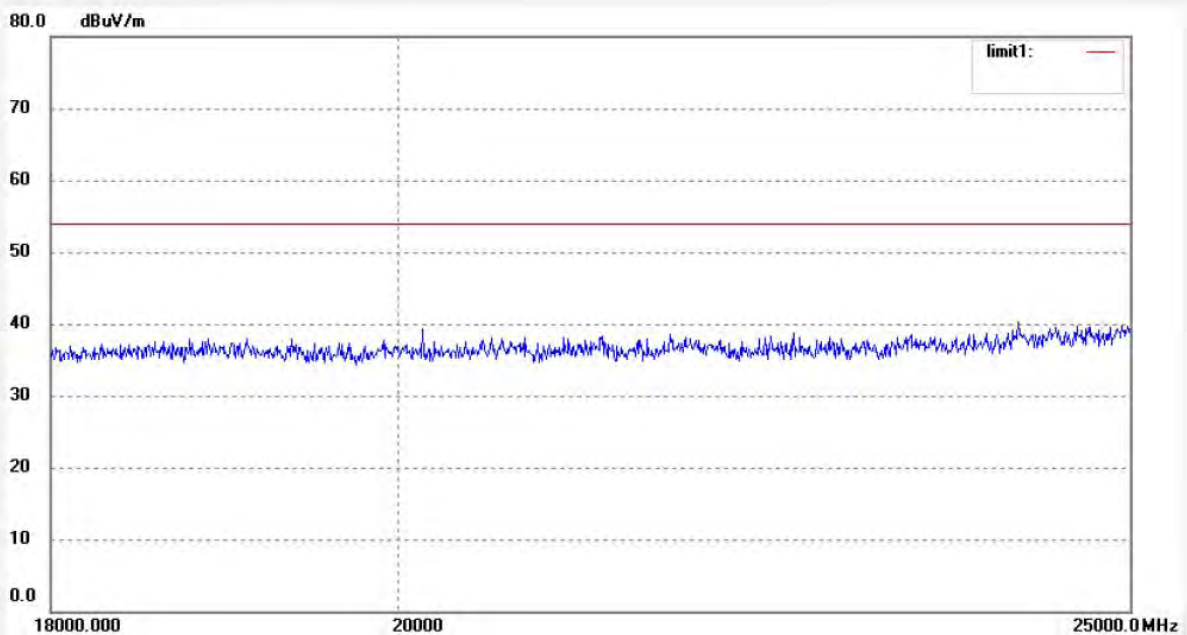
**ACCURATE TECHNOLOGY CO., LTD.**

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

Site: 2# Chamber  
Tel:+86-0755-26503290  
Fax:+86-0755-26503396

Job No.: star #3431	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 5V
Test item: Radiation Test	Date: 13/05/31/
Temp.( C)/Hum.(%) 26 C / 60 %	Time: 18/22/10
EUT: Mini Wireless AP Client	Engineer Signature:
Mode: TX Channel 9(802.11n)40MHz	Distance: 3m
Model: WA150M	
Manufacturer: HAOLIYUAN	

Note: Report No.:ATE20131062



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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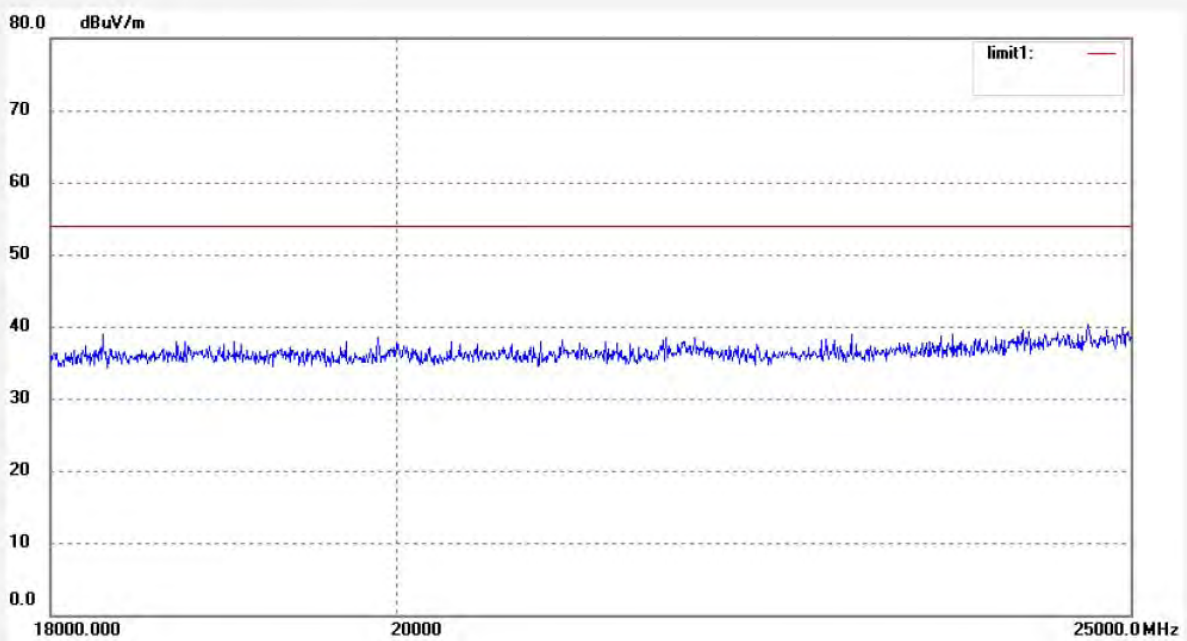
**ACCURATE TECHNOLOGY CO., LTD.**

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Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber  
Tel:+86-0755-26503290  
Fax:+86-0755-26503396

Job No.: star #3432	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 5V
Test item: Radiation Test	Date: 13/05/31/
Temp.( C)/Hum.(%) 26 C / 60 %	Time: 18/25/23
EUT: Mini Wireless AP Client	Engineer Signature:
Mode: TX Channel 9(802.11n)40MHz	Distance: 3m
Model: WA150M	
Manufacturer: HAOLIYUAN	

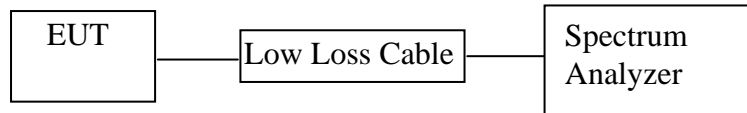
Note: Report No.:ATE20131062



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
-----	-------------	------------------	-------------	-----------------	----------------	-------------	----------	-------------	---------------	--------

## 10. CONDUCTED SPURIOUS EMISSION COMPLIANCE TEST

### 10.1. Block Diagram of Test Setup



(EUT: Mini Wireless AP Client)

### 10.2. 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).

### 10.3. EUT Configuration on Measurement

The following 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.

#### 10.3.1. Mini Wireless AP Client (EUT)

Model Number	:	WA150M
Serial Number	:	N/A
Manufacturer	:	HAOLIYUAN (SHENZHEN) ELECTRONIC CO., LTD

## 10.4. Operating Condition of EUT

10.4.1. Setup the EUT and simulator as shown as Section 10.1.

10.4.2. Turn on the power of all equipment.

10.4.3. 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.

## 10.5. Test Procedure

10.5.1. The transmitter output was connected to the spectrum analyzer via a low loss cable.

10.5.2. Set RBW of spectrum analyzer to 100kHz and VBW to 300kHz (below 1GHz).

10.5.3. Set RBW of spectrum analyzer to 1MHz and VBW to 3MHz (above 1GHz).

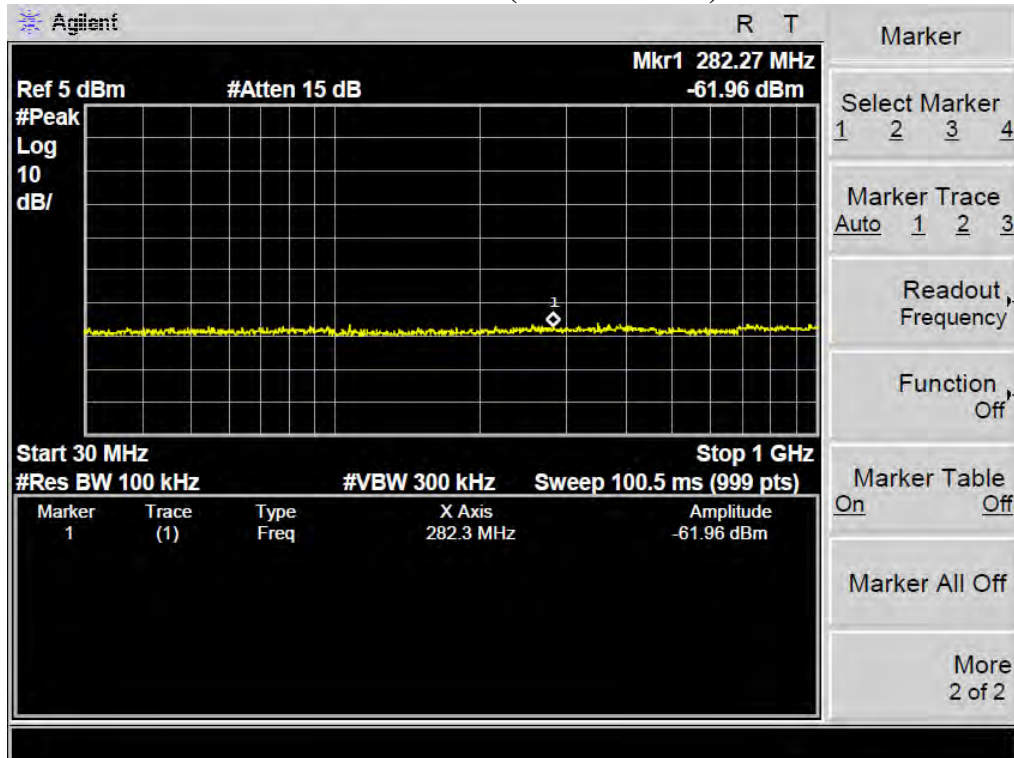
10.5.4. The Conducted Spurious Emission was measured and recorded.

## 10.6. Test Result

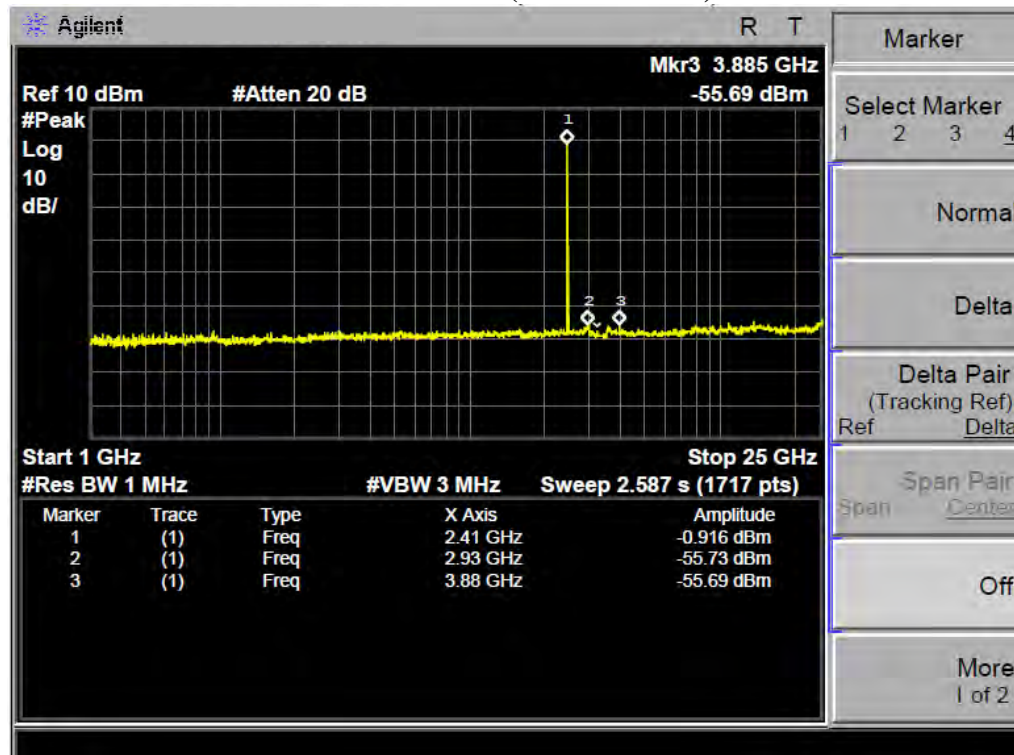
**Pass.**

The spectrum analyzer plots are attached as below.

**TX 802.11b Channel Low 2412MHz (30MHz-1GHz)**

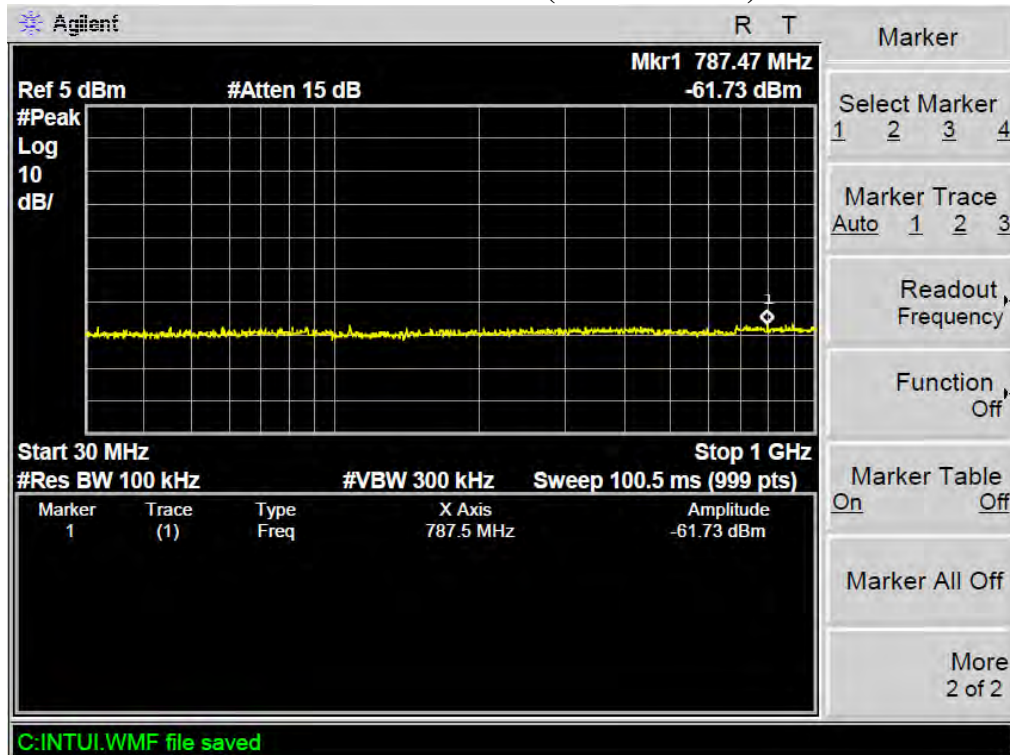


**TX 802.11b Channel Low 2412MHz (1GHz-25GHz)**

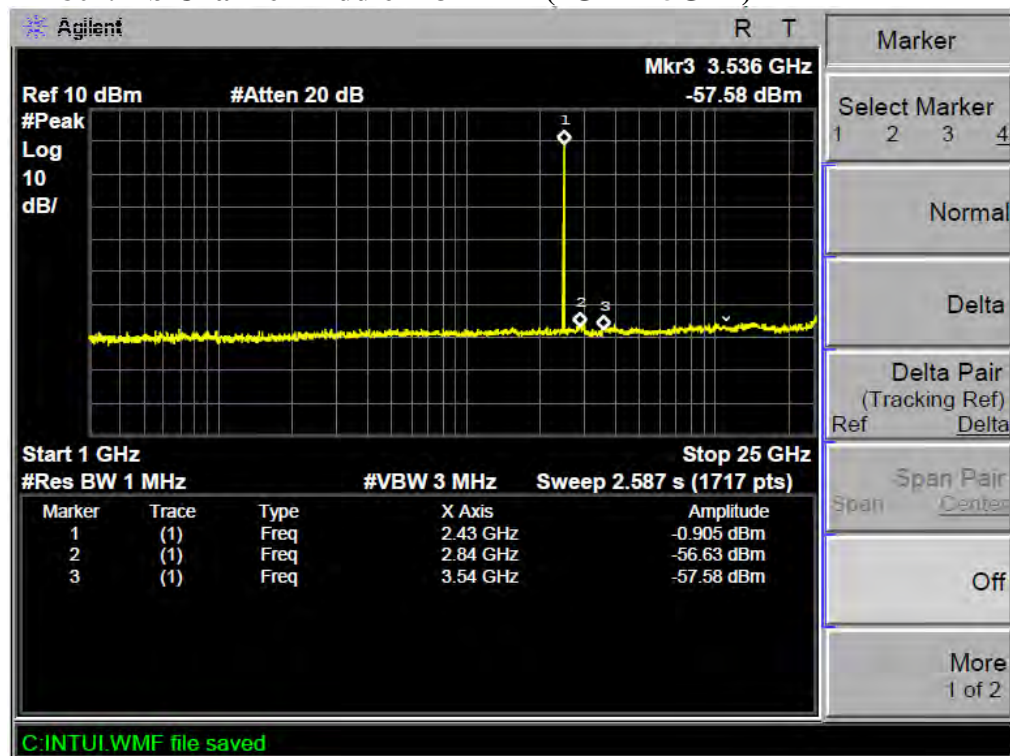




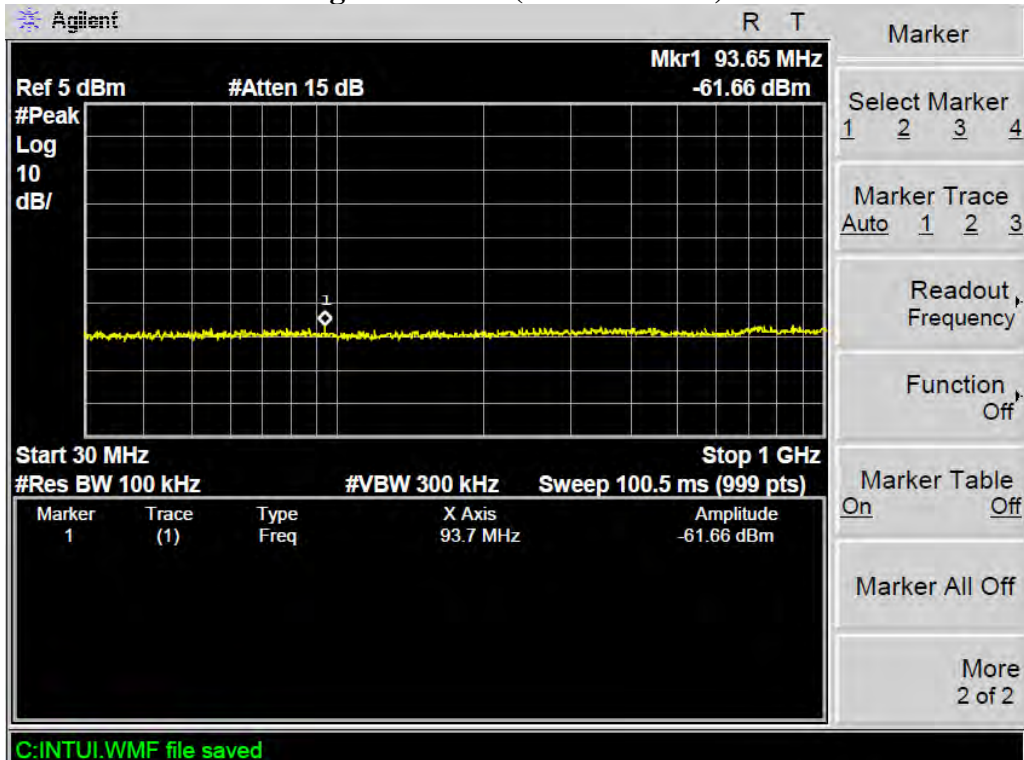
### TX 802.11b Channel Middle 2437MHz (30MHz-1GHz)



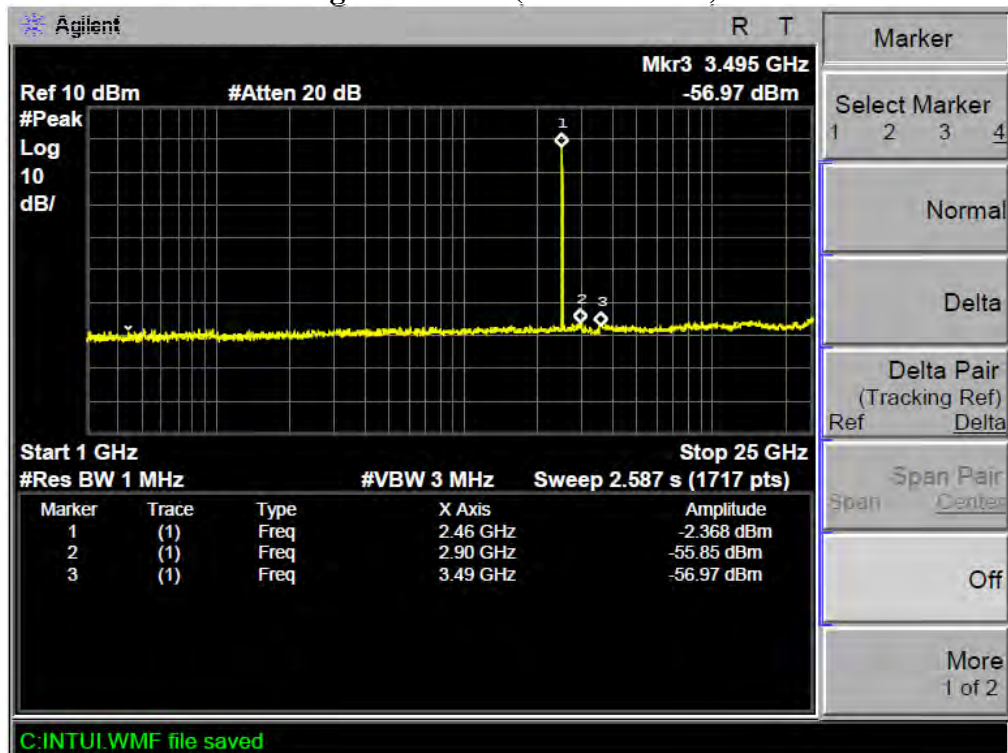
### TX 802.11b Channel Middle 2437MHz (1GHz-25GHz)



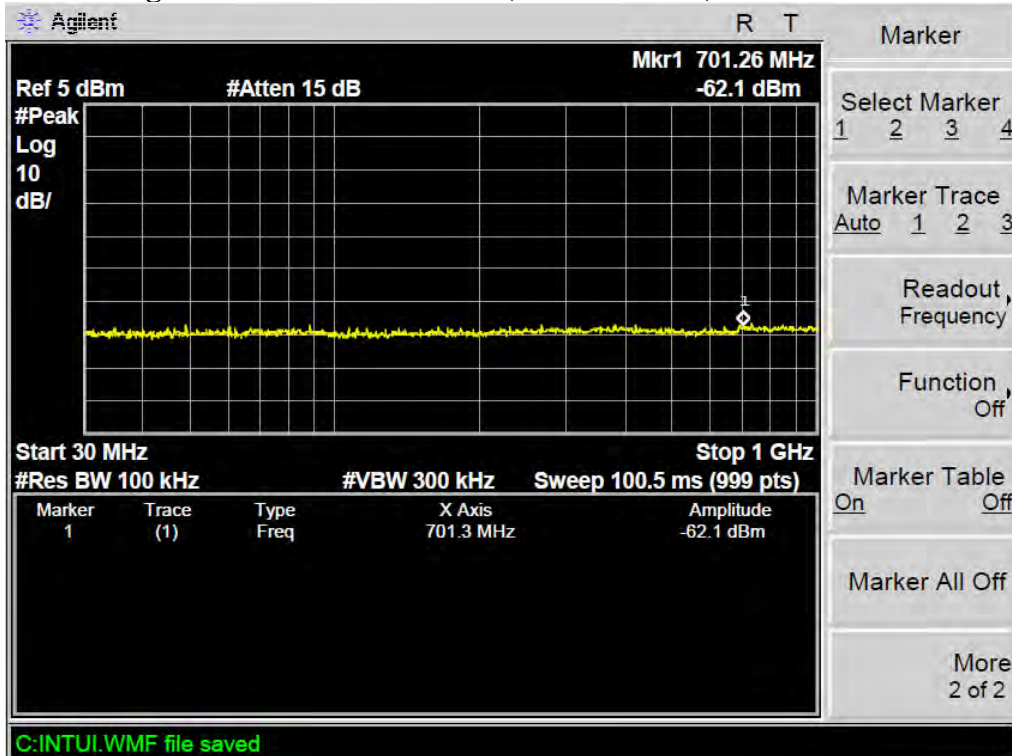
**TX 802.11b Channel High 2462MHz (30MHz-1GHz)**



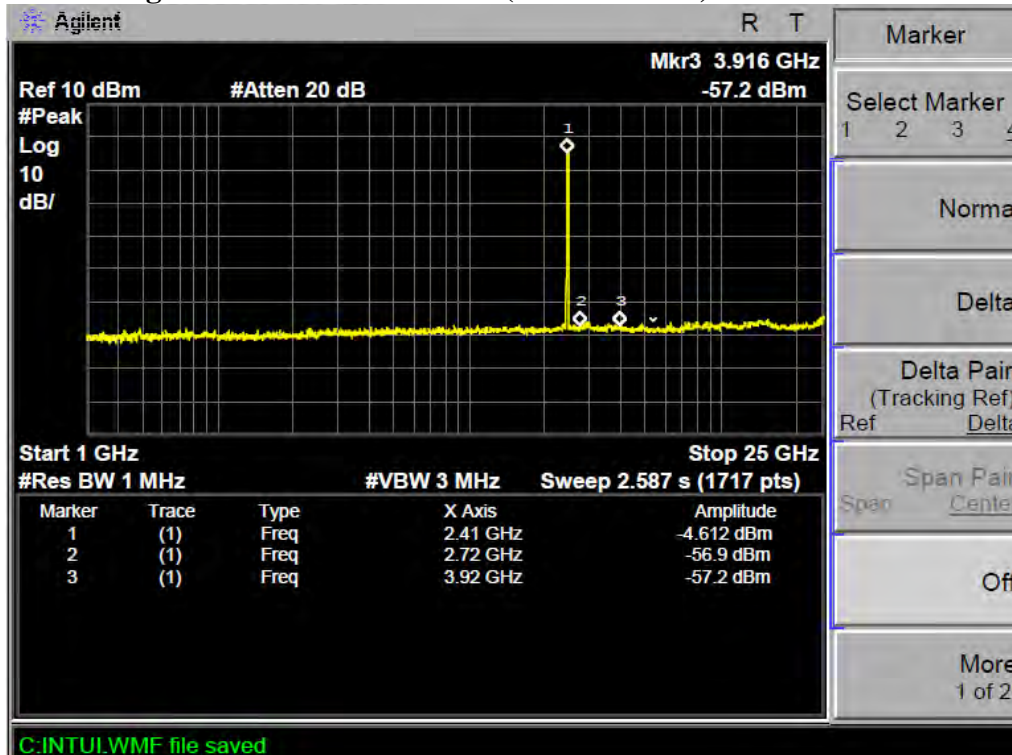
**TX 802.11b Channel High 2462MHz (1GHz-25GHz)**



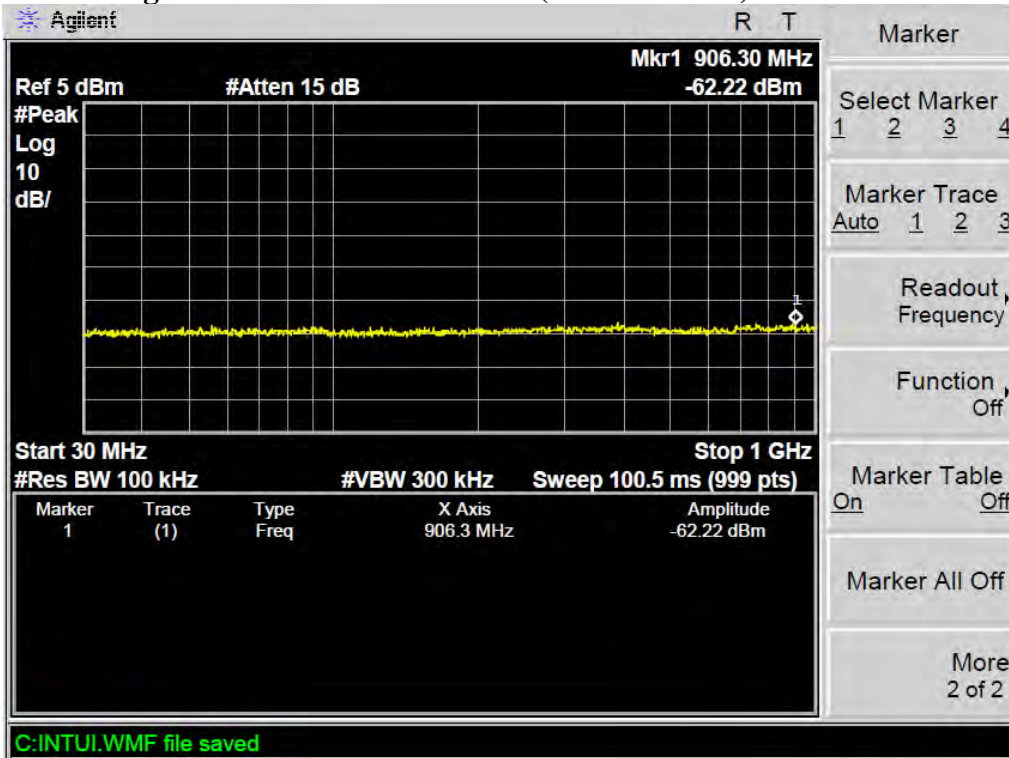
**TX 802.11g Channel Low 2412MHz (30MHz-1GHz)**



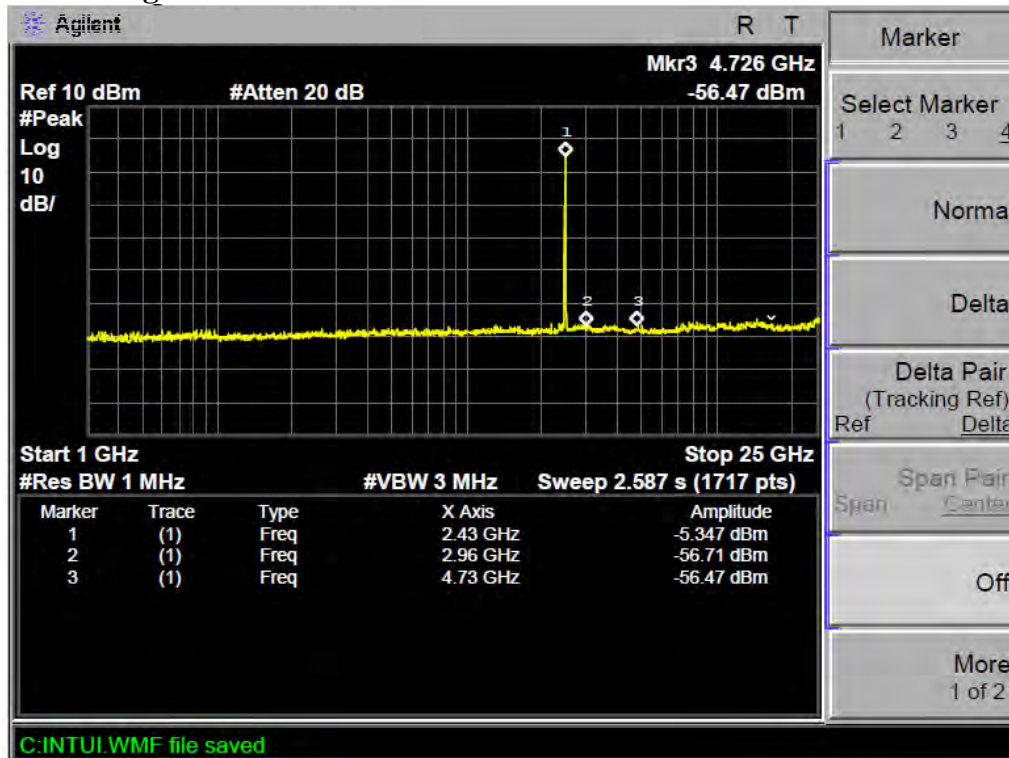
**TX 802.11g Channel Low 2412MHz (1GHz-25GHz)**



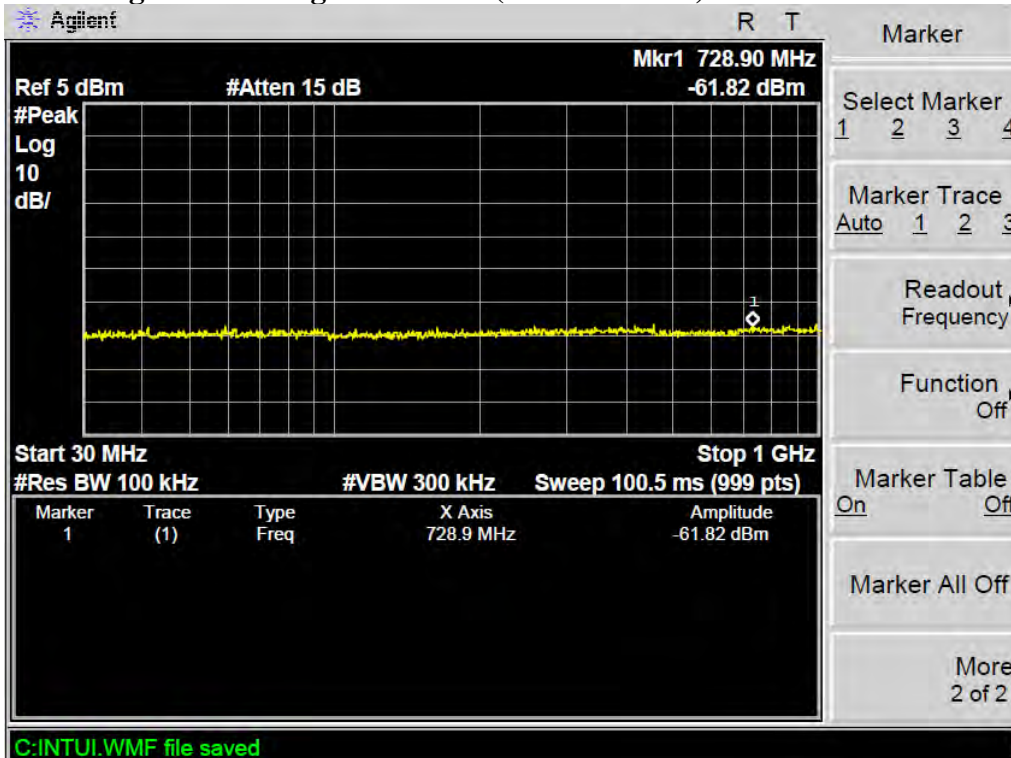
**TX 802.11g Channel Middle 2437MHz (30MHz-1GHz)**



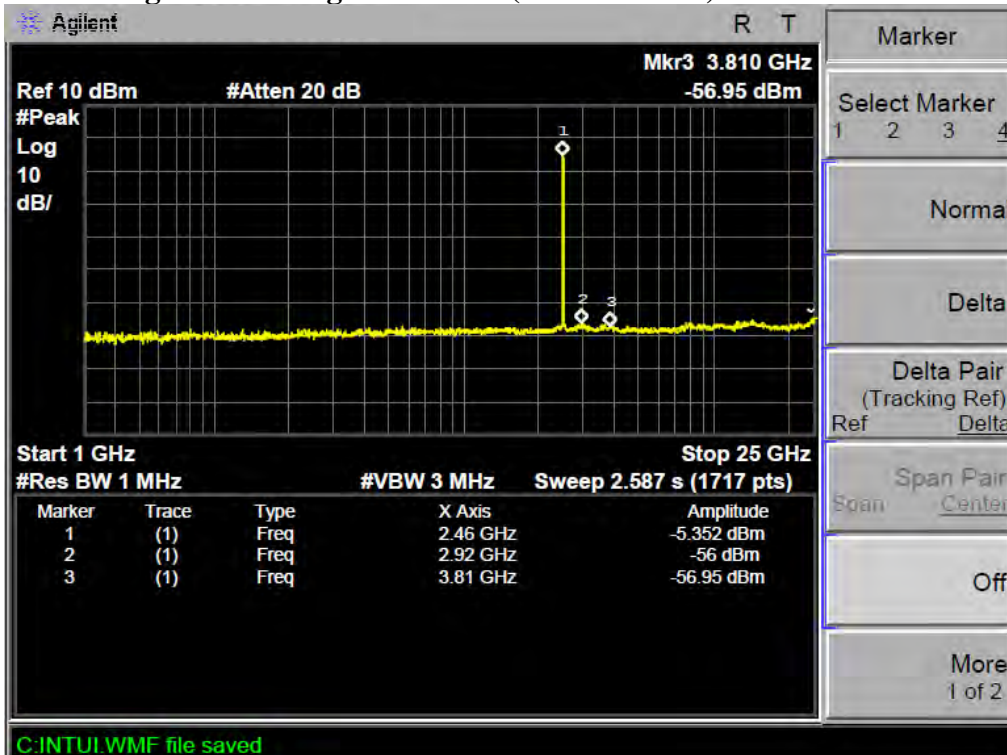
**TX 802.11g Channel Middle 2437MHz**



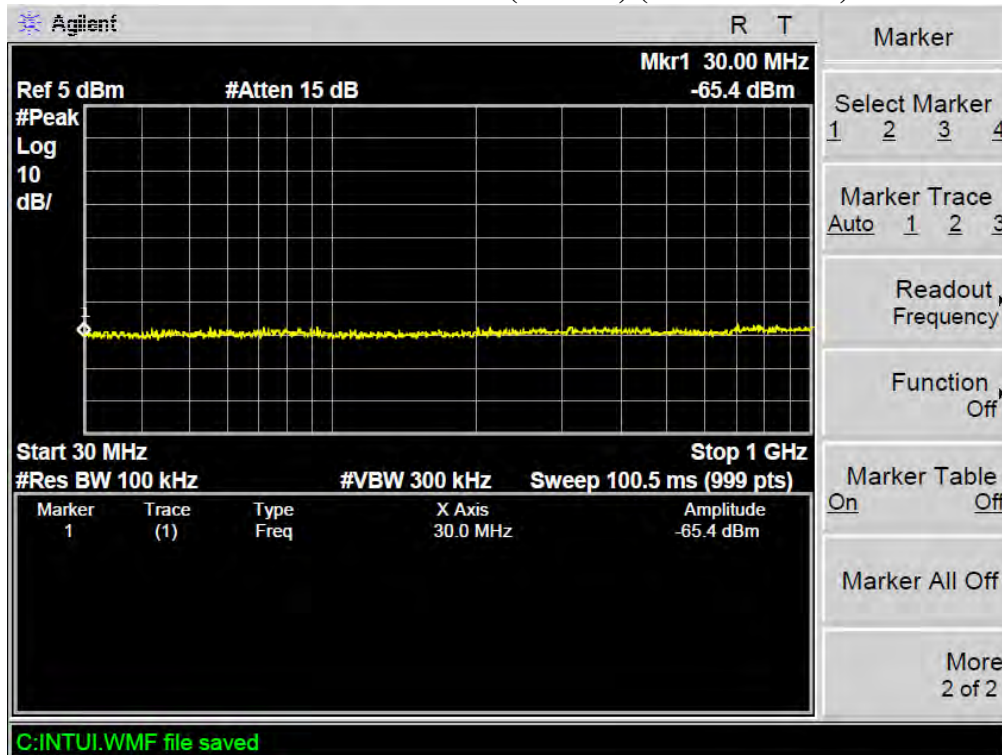
**TX 802.11g Channel High 2462MHz (30MHz-1GHz)**



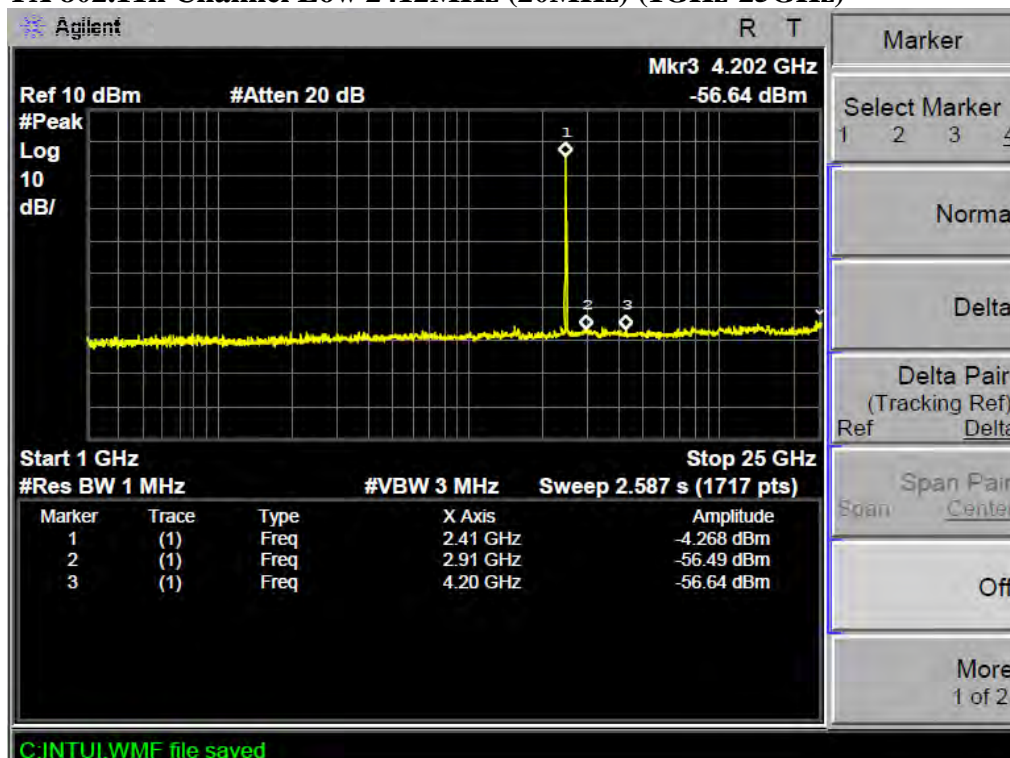
**TX 802.11g Channel High 2462MHz (1GHz-25GHz)**



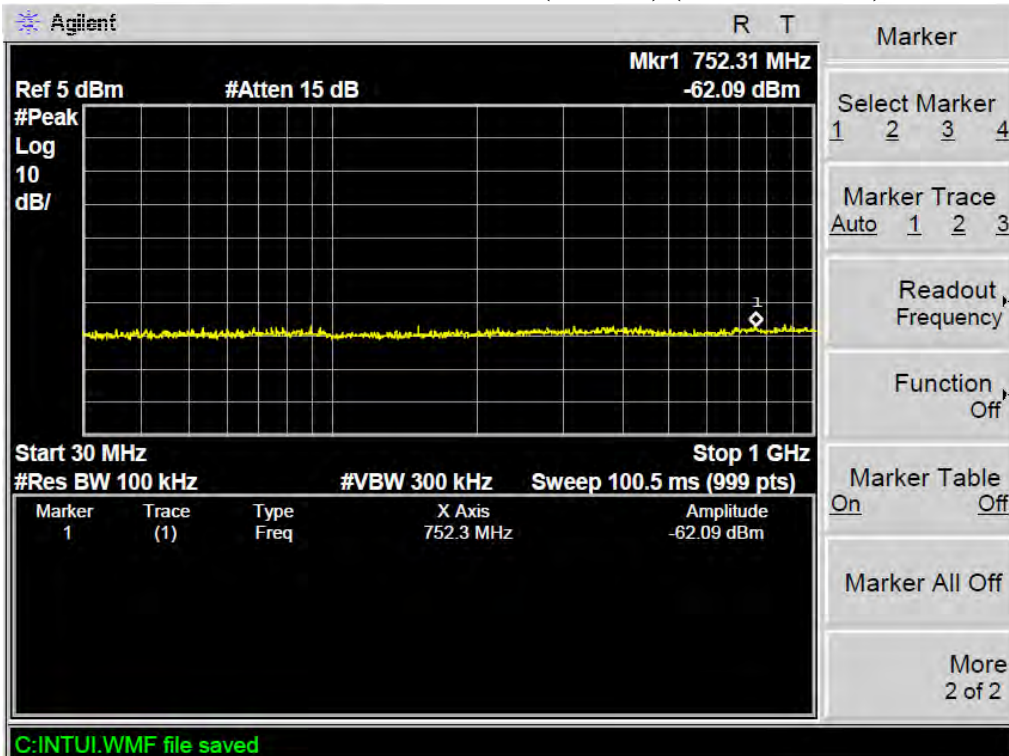
**TX 802.11n Channel Low 2412MHz (20MHz) (30MHz-1GHz)**



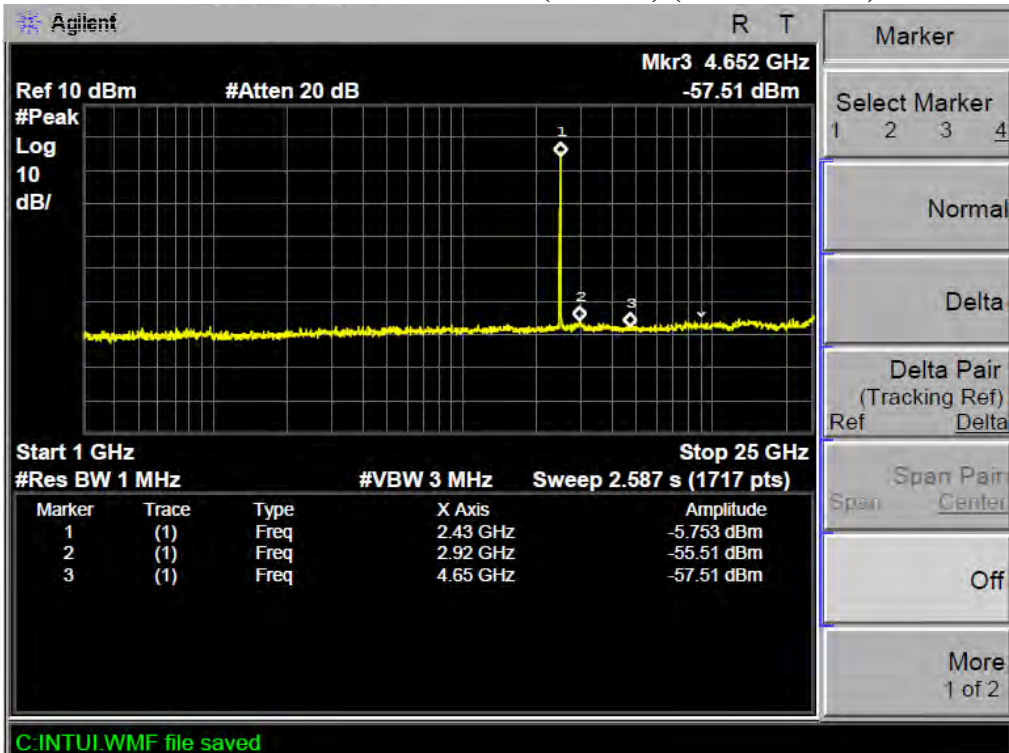
**TX 802.11n Channel Low 2412MHz (20MHz) (1GHz-25GHz)**



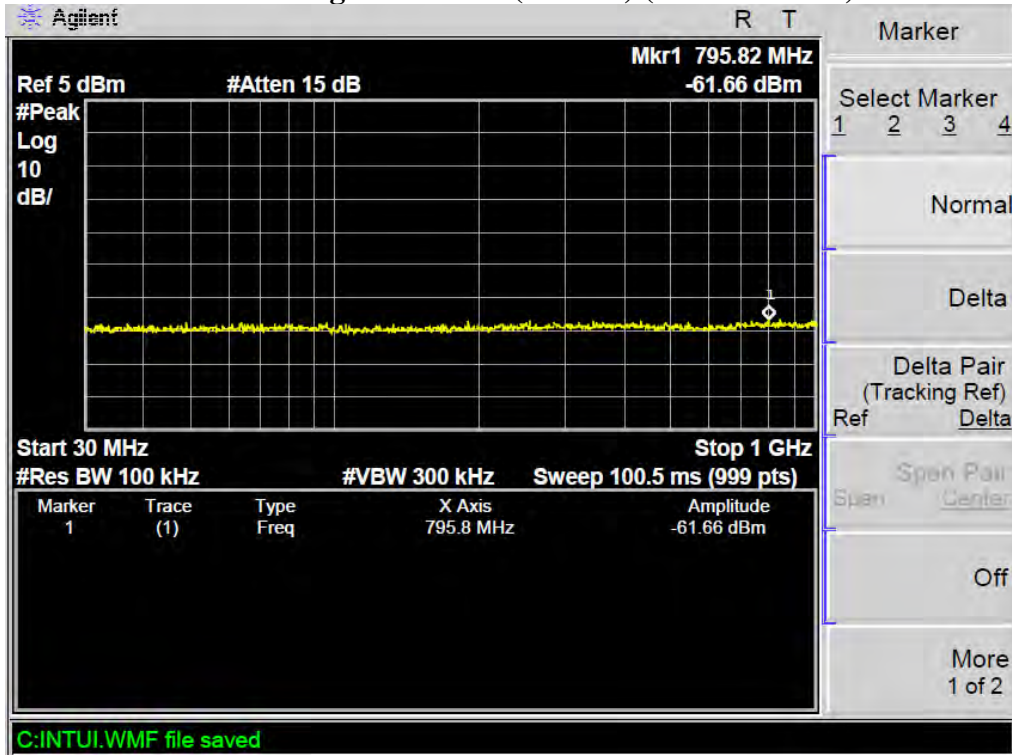
**TX 802.11n Channel Middle 2437MHz (20MHz) (30MHz-1GHz)**



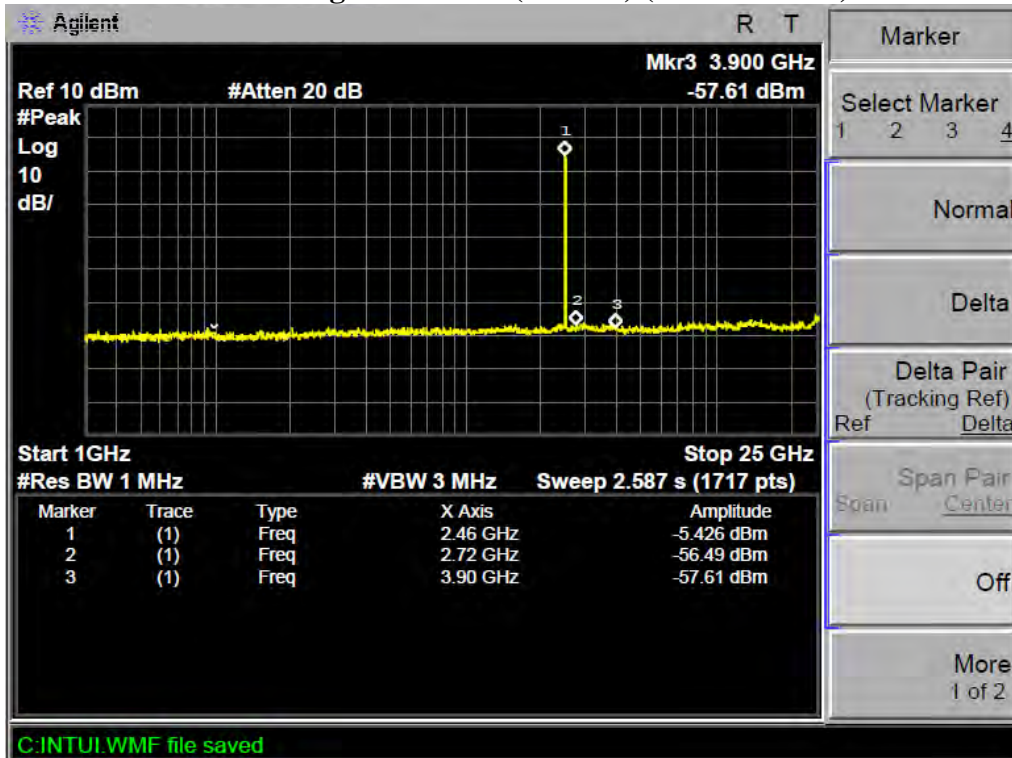
**TX 802.11n Channel Middle 2437MHz (20MHz) (1GHz-25GHz)**



**TX 802.11n Channel High 2462MHz (20MHz) (30MHz-1GHz)**

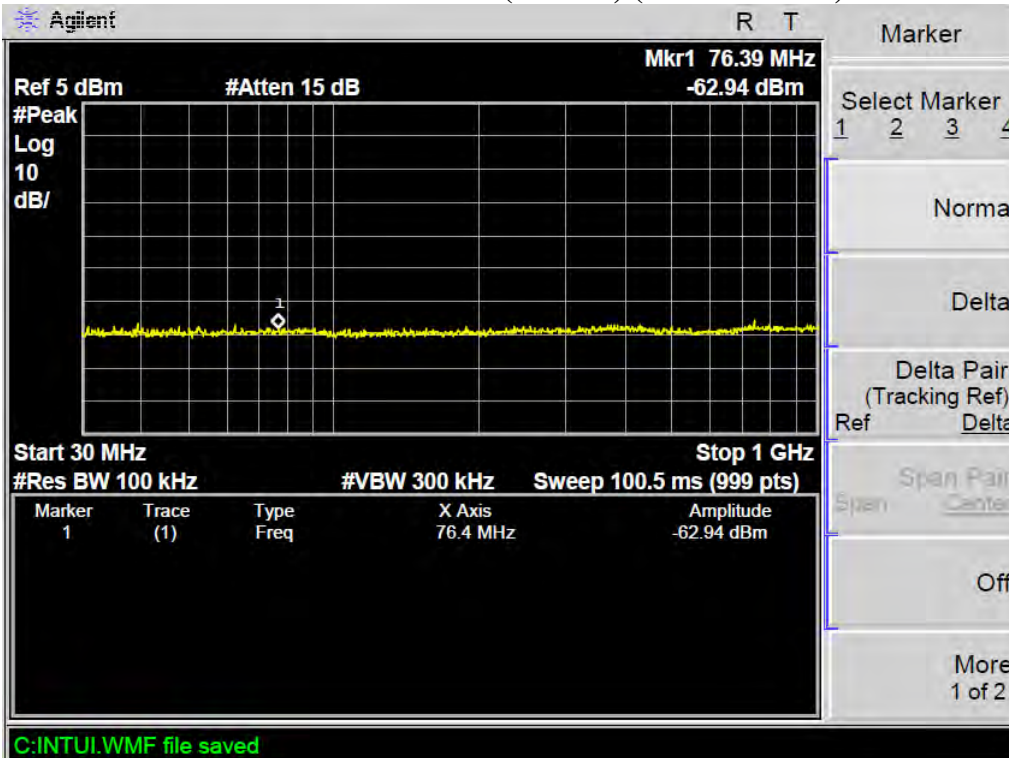


**TX 802.11n Channel High 2462MHz (20MHz) (1GHz-25GHz)**

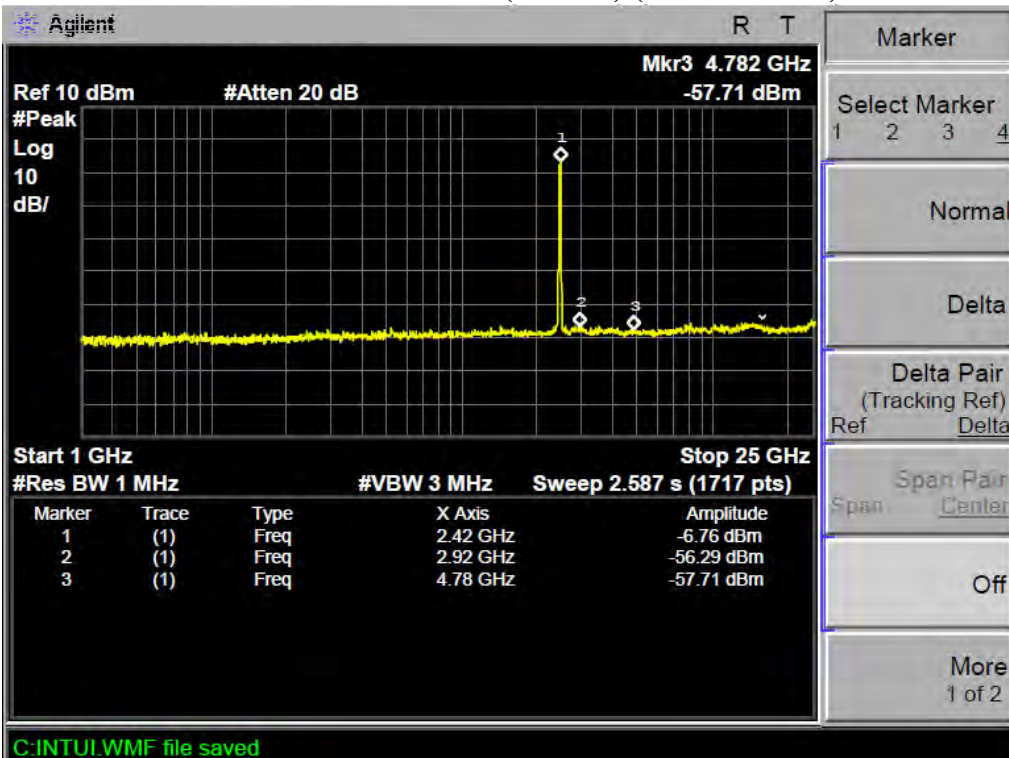




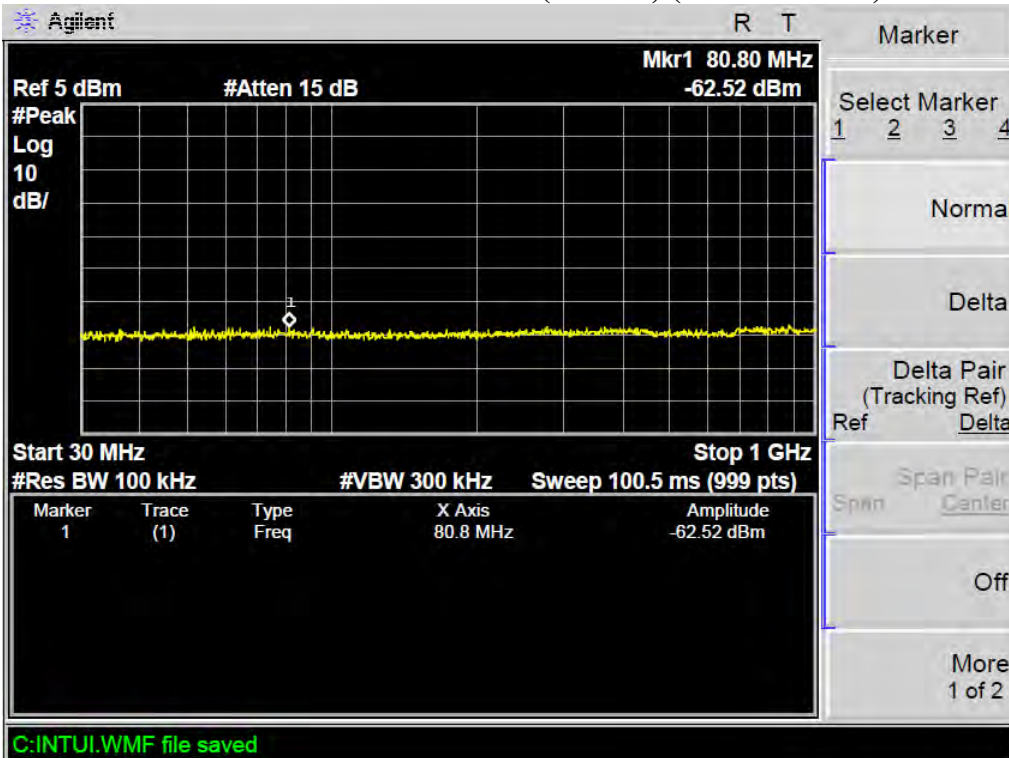
**TX 802.11n Channel Low 2422MHz (40MHz) (30MHz-1GHz)**



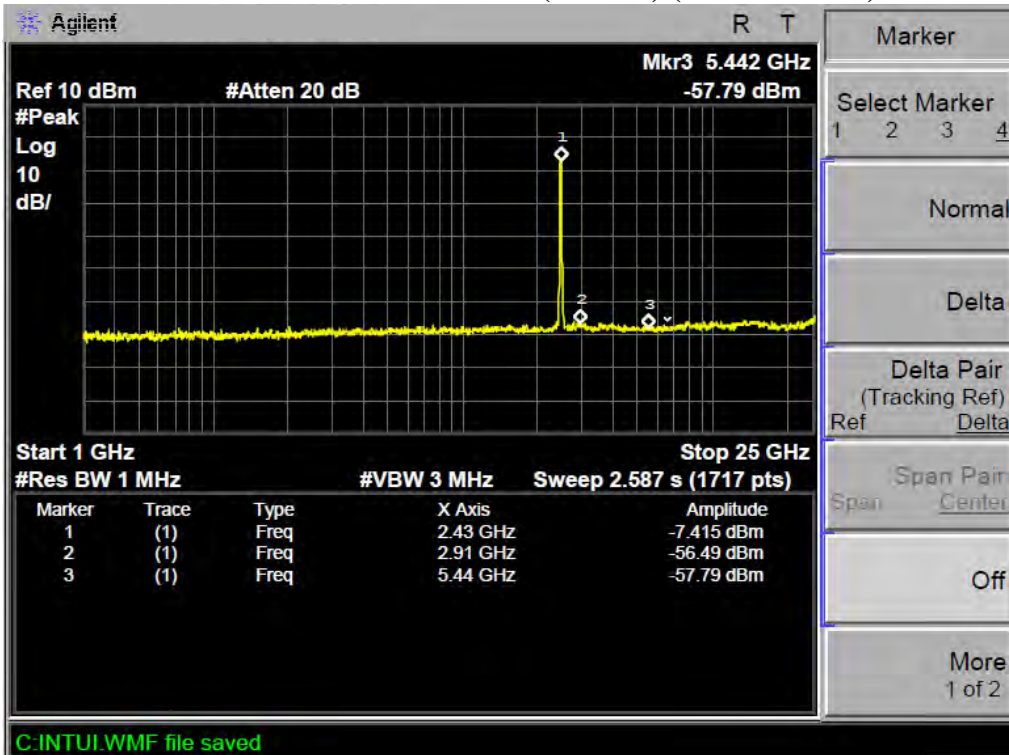
**TX 802.11n Channel Low 2422MHz (40MHz) (1GHz-25GHz)**



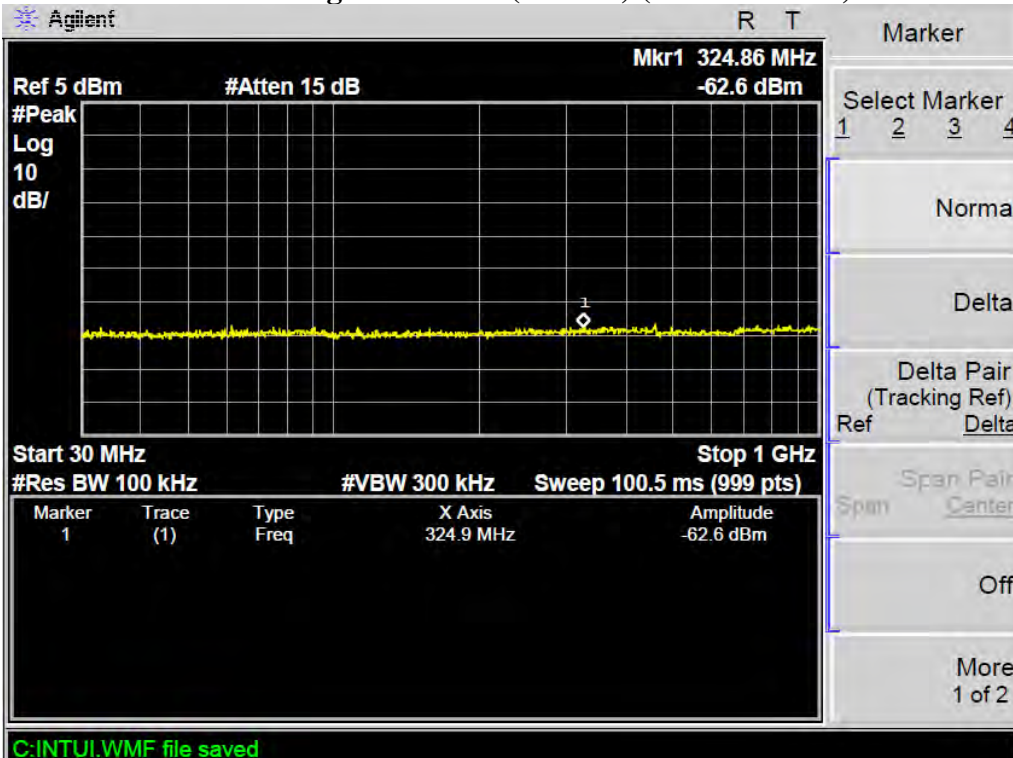
**TX 802.11n Channel Middle 2437MHz (40MHz) (30MHz-1GHz)**



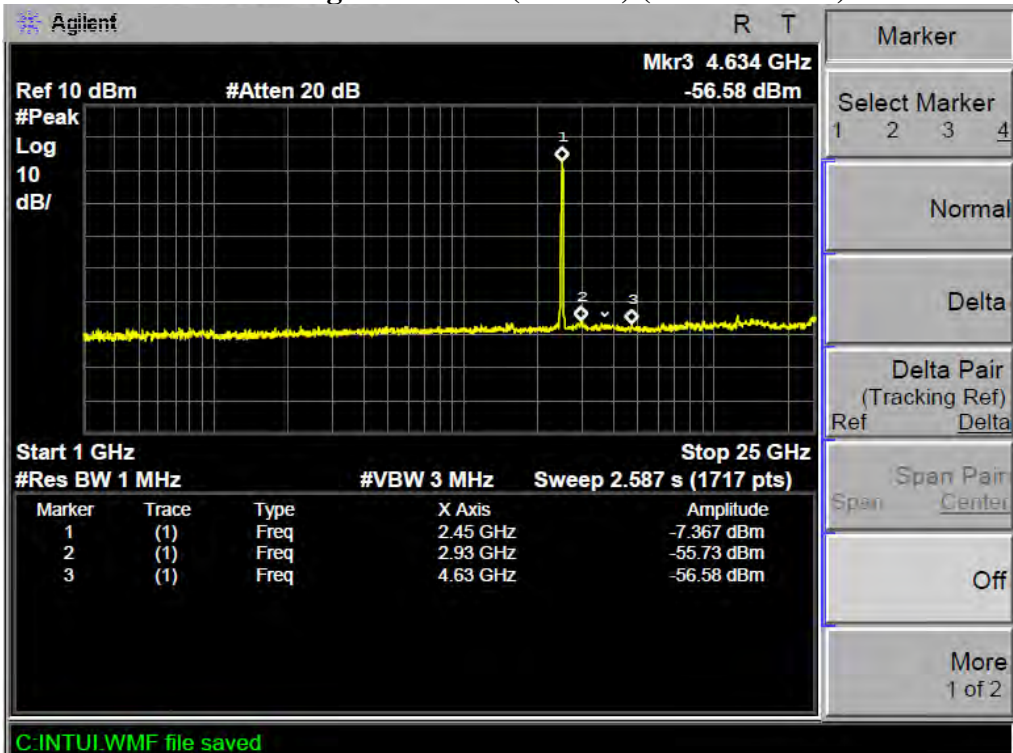
**TX 802.11n Channel Middle 2437MHz (40MHz) (1GHz-25GHz)**



**TX 802.11n Channel High 2452MHz (40MHz) (30MHz-1GHz)**



**TX 802.11n Channel High 2452MHz (40MHz) (1GHz-25GHz)**

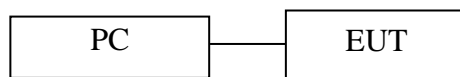


# 11.AC POWER LINE CONDUCTED EMISSION FOR FCC PART

## 15 SECTION 15.207(A)

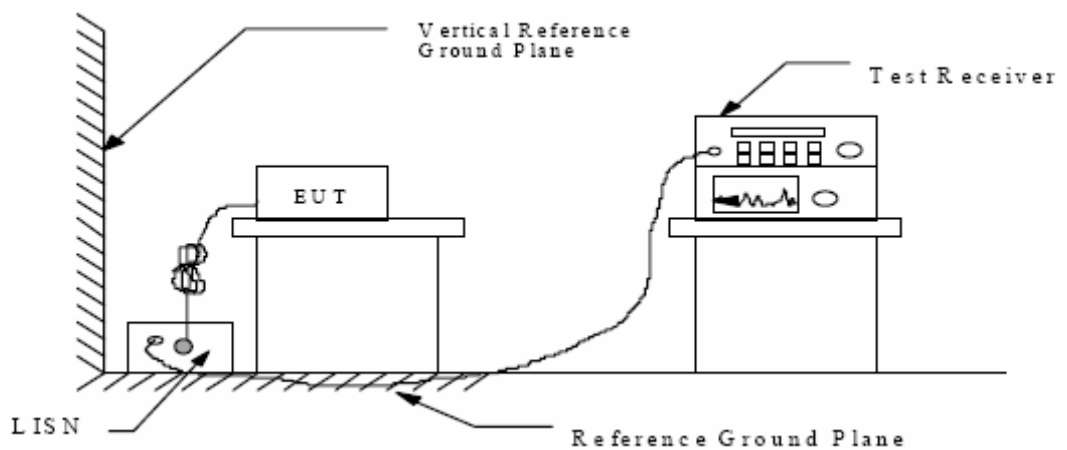
### 11.1.Block Diagram of Test Setup

11.1.1.Block diagram of connection between the EUT and simulators



(EUT: Mini Wireless AP Client)

### 11.1.2.Shielding Room Test Setup Diagram



(EUT: Mini Wireless AP Client)

### 11.2.The Emission Limit

11.2.1.Conducted Emission Measurement Limits According to Section 15.207(a)

Frequency (MHz)	Limit dB(μV)	
	Quasi-peak Level	Average Level
0.15 - 0.50	66.0 - 56.0 *	56.0 - 46.0 *
0.50 - 5.00	56.0	46.0
5.00 - 30.00	60.0	50.0

\* Decreases with the logarithm of the frequency.

### 11.3.Configuration of EUT on Measurement

The following equipment are installed on the Conducted Emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

#### 11.3.1. Mini Wireless AP Client (EUT)

Model Number : WA150M  
Serial Number : N/A  
Manufacturer : HAOLIYUAN (SHENZHEN) ELECTRONIC CO., LTD

### 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) mode measure it.

### 11.5. Test Procedure

The EUT is put on the plane 0.8m high above the ground by insulating support and is connected to the power mains through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm coupling impedance for the EUT system. Please refer the block diagram of the test setup and photographs. Both sides of AC lines are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to ANSI C63.4-2009 on Conducted Emission Measurement.

The bandwidth of test receiver (R & S ESCS30) is set at 9kHz.

The frequency range from 150kHz to 30MHz is checked.

## 11.6. Power Line Conducted Emission Measurement Results

**PASS.**

The frequency range from 150kHz to 30MHz is checked.

Date of Test:	<u>May 29, 2013</u>	Temperature:	<u>25°C</u>
EUT:	<u>Mini Wireless AP Client</u>	Humidity:	<u>50%</u>
Model No.:	<u>WA150M</u>	Power Supply:	<u>DC 5V</u>
Test Mode:	<u>Tx</u>	Test Engineer:	<u>Pei</u>

Frequency (MHz)	Result (dBμV)	Limit (dBμV)	Margin (dB)	Detector	Line
0.467950	40.00	57	-16.6	QP	Neutral
2.082610	41.40	56	-14.6	QP	
20.187874	38.00	60	-22.0	QP	
0.566784	37.00	46	-9.0	AV	
2.462770	41.50	46	-4.5	AV	
20.187874	34.70	12.1	-15.3	AV	
0.467950	40.00	57	-16.6	QP	Live
1.513251	36.20	56	-19.8	QP	
20.34970	31.40	60	-28.6	QP	
0.469822	37.20	47	-9.3	AV	
1.419618	35.50	46	-10.5	AV	
19.788917	27.40	50	-22.6	AV	

Emissions attenuated more than 20 dB below the permissible value are not reported.  
The spectral diagrams are attached as below.

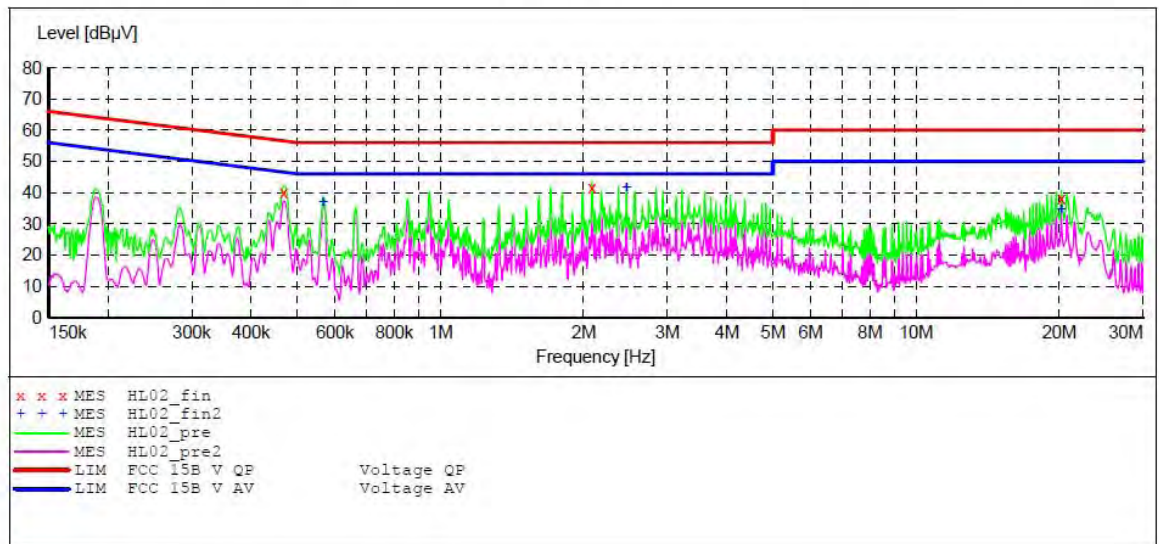
**ACCURATE TECHNOLOGY CO., LTD**

**CONDUCTED EMISSION STANDARD FCC PART 15B**

EUT: Mini Wireless AP Client M/N:WA150M  
 Manufacturer: HAOLIYUAN  
 Operating Condition: ON  
 Test Site: 1#Shielding Room  
 Operator: Star  
 Test Specification: N 120V/60Hz  
 Comment: Report No:ATE20131062  
 Start of Test: 5/29/2013 / 10:03:43AM

**SCAN TABLE: "V 150K-30MHz fin"**

Short Description: \_SUB\_STD\_VTERM2 1.70  
 Start Stop Step Detector Meas. IF Transducer  
 Frequency Width Time Bandw.  
 150.0 kHz 30.0 MHz 4.5 kHz QuasiPeak 1.0 s 9 kHz NSLK8126 2008  
 Average



**MEASUREMENT RESULT: "HL02\_fin"**

5/29/2013 10:05AM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.467950	40.00	12.5	57	16.6	QP	N	GND
2.082610	41.40	12.4	56	14.6	QP	N	GND
20.187874	38.00	12.1	60	22.0	QP	N	GND

**MEASUREMENT RESULT: "HL02\_fin2"**

5/29/2013 10:05AM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.566784	37.00	12.6	46	9.0	AV	N	GND
2.462770	41.50	12.4	46	4.5	AV	N	GND
20.187874	34.70	12.1	50	15.3	AV	N	GND

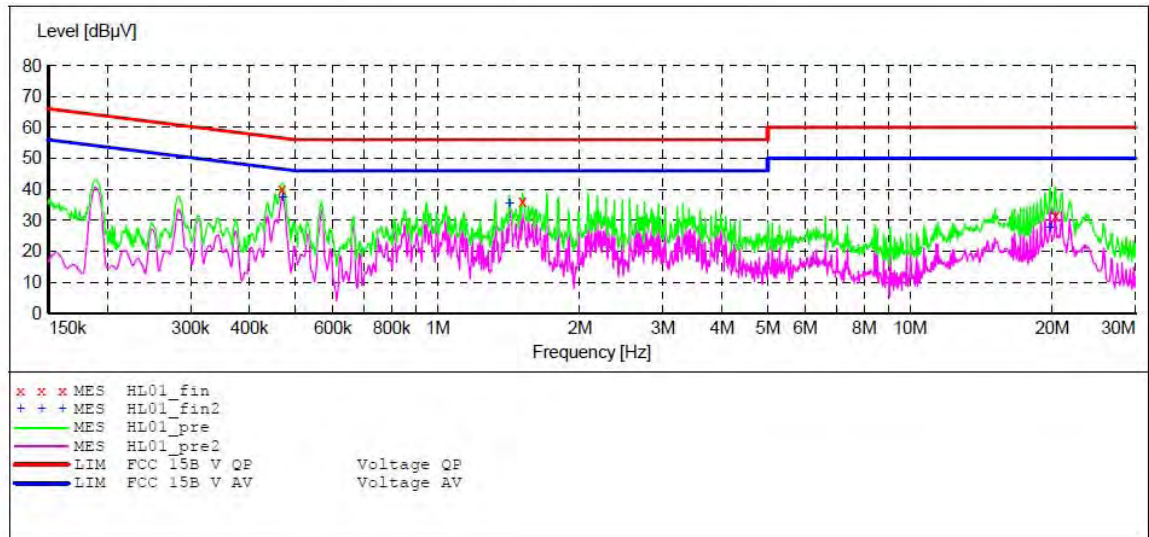
**ACCURATE TECHNOLOGY CO.,LTD**

**CONDUCTED EMISSION STANDARD FCC PART 15B**

EUT: Mini Wireless AP Client M/N:WA150M  
 Manufacturer: HAOLIYUAN  
 Operating Condition: ON  
 Test Site: 1#Shielding Room  
 Operator: Star  
 Test Specification: L 120V/60Hz  
 Comment: Report No:ATE20131062  
 Start of Test: 5/29/2013 / 10:00:41AM

**SCAN TABLE: "V 150K-30MHz fin"**

Short Description: \_SUB\_STD\_VTERM2 1.70  
 Start Stop Step Detector Meas. IF Transducer  
 Frequency Frequency Width Time Bandw.  
 150.0 kHz 30.0 MHz 4.5 kHz QuasiPeak 1.0 s 9 kHz NSLK8126 2008  
 Average



**MEASUREMENT RESULT: "HL01\_fin"**

5/29/2013 10:03AM

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.467950	40.00	12.5	57	16.6	QP	L1	GND
1.513251	36.20	12.4	56	19.8	QP	L1	GND
20.349700	31.40	12.1	60	28.6	QP	L1	GND

**MEASUREMENT RESULT: "HL01\_fin2"**

5/29/2013 10:03AM

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.469822	37.20	12.5	47	9.3	AV	L1	GND
1.419618	35.50	12.4	46	10.5	AV	L1	GND
19.788917	27.40	12.1	50	22.6	AV	L1	GND



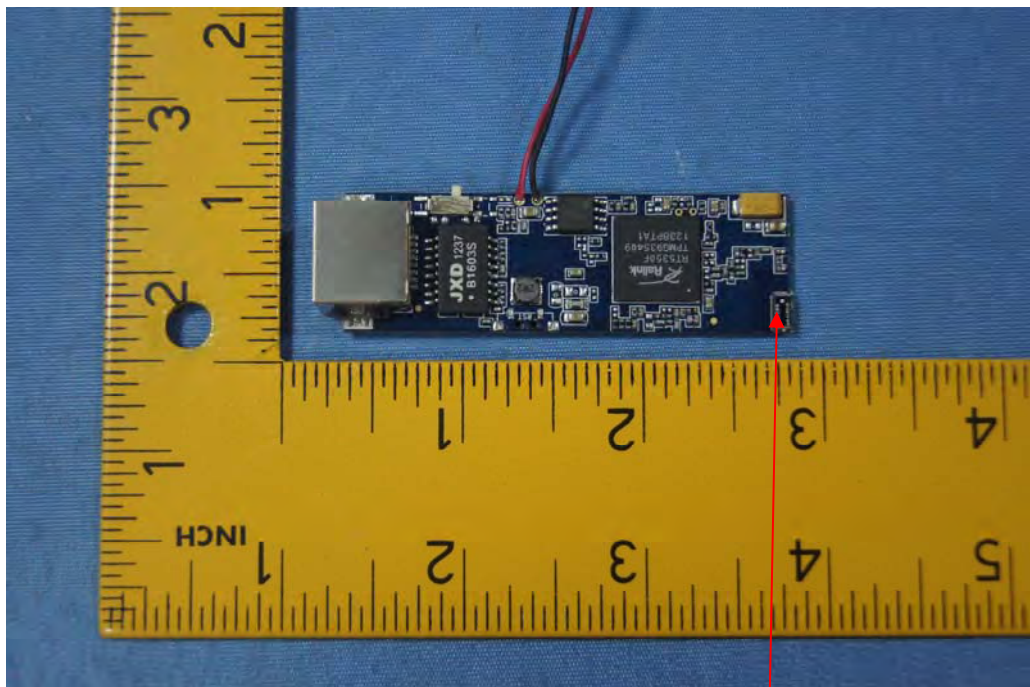
## 12. ANTENNA REQUIREMENT

### 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 unique antenna, which isn't displaced by other antenna. Therefore, the equipment complies with the antenna requirement of Section 15.203.



Antenna