



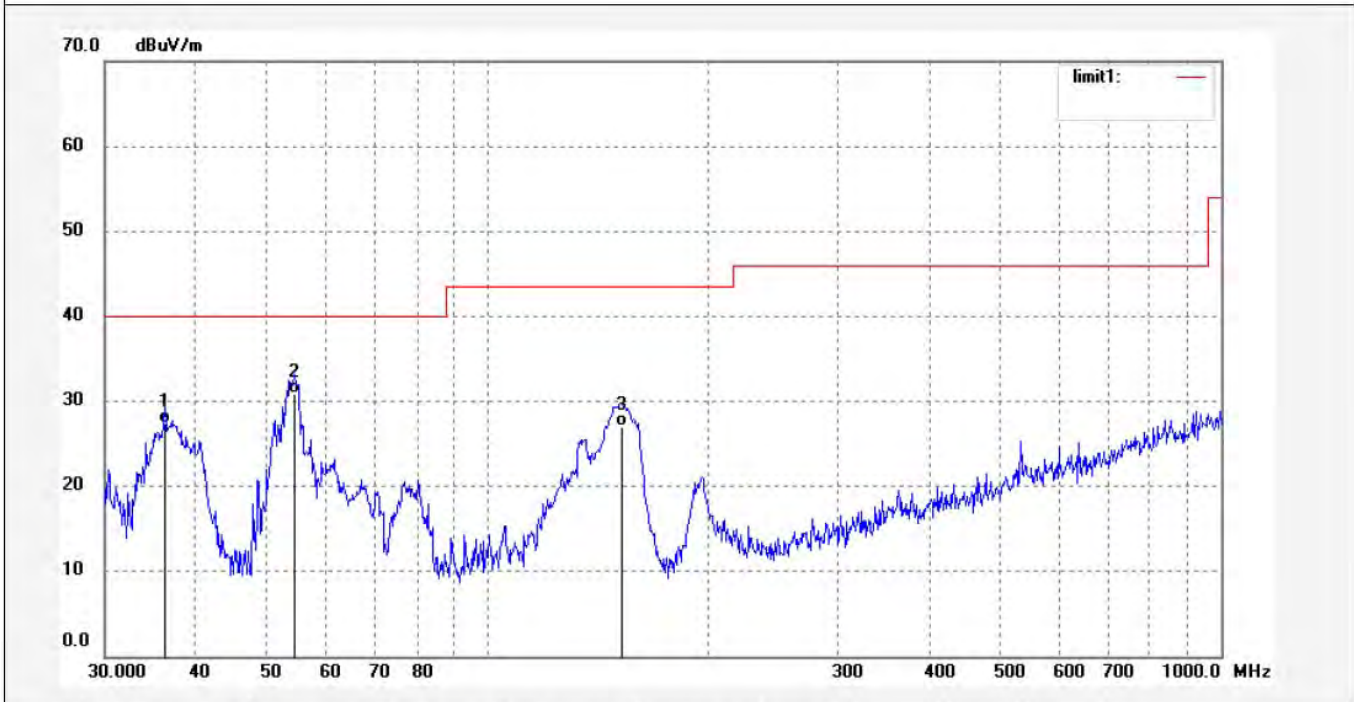
**ACCURATE TECHNOLOGY CO., LTD.**

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.: Bob #4779	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 2013/02/01
Temp.( C)/Hum.(%) 26 C / 55 %	Time: 10:54:15
EUT: MID	Engineer Signature:
Mode: Channel 6(802.11n)	Distance: 3m
Model: VX-S7001	
Manufacturer: Sungworld	

Note: Report No.:ATE20130172



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	36.2678	12.06	15.40	27.46	40.00	-12.54	QP			
2	54.5167	16.74	14.10	30.84	40.00	-9.16	QP			
3	152.0902	15.54	11.54	27.08	43.50	-16.42	QP			



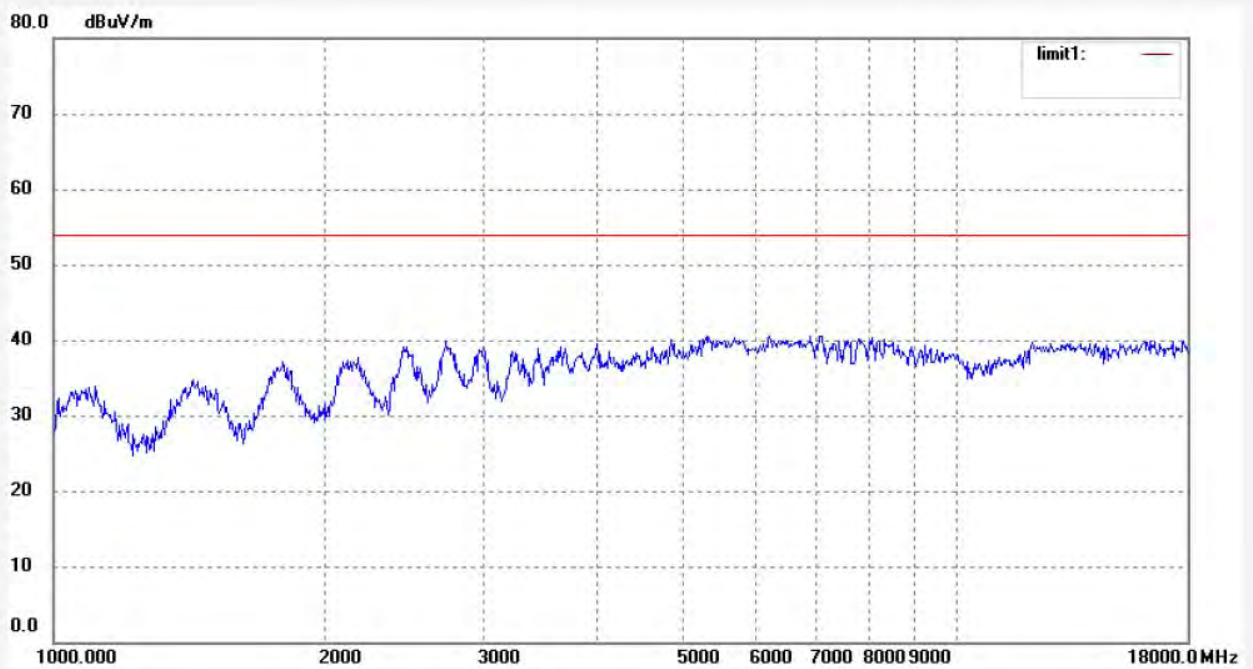
**ACCURATE TECHNOLOGY CO., LTD.**

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.: Bob #4755	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 13/02/01
Temp.( C)/Hum.(%) 26 C / 55 %	Time: 10/06/02
EUT: MID	Engineer Signature:
Mode: Channel 6(802.11n)20MHz	Distance: 3m
Model: VX-S7001	
Manufacturer: Sungworld	

Note: Report No.:ATE20130172



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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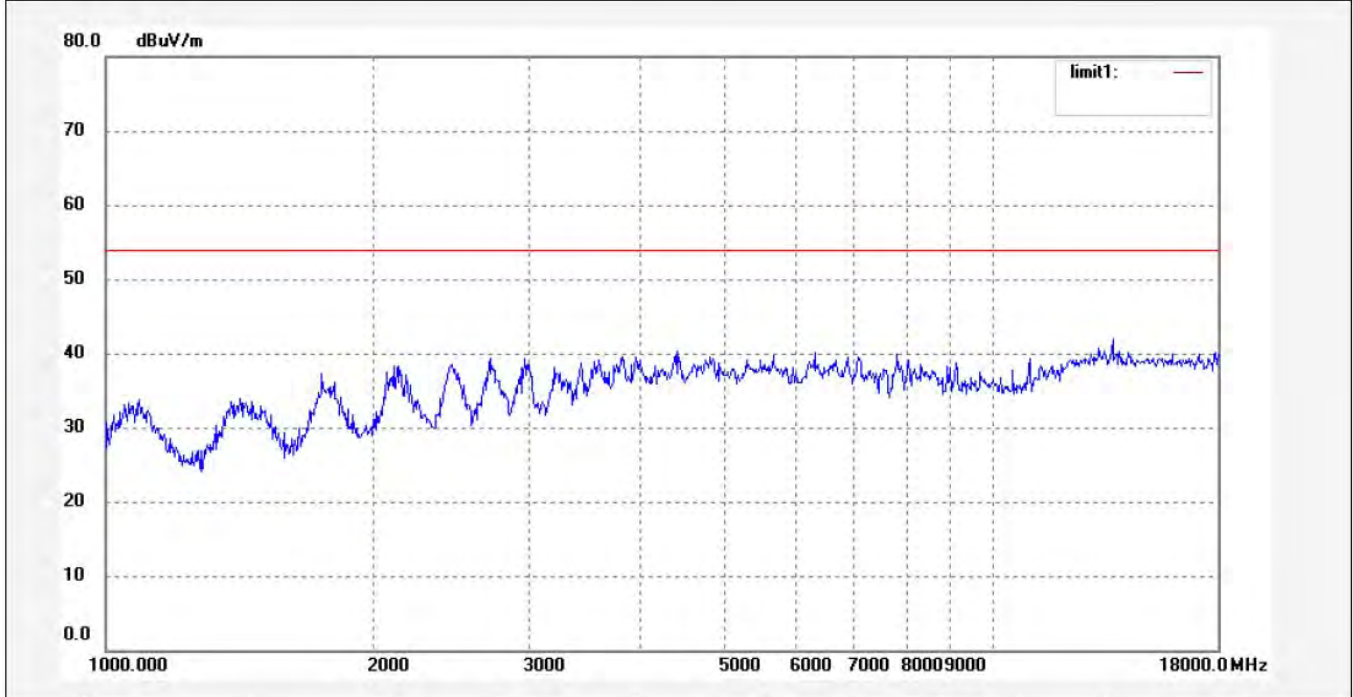
**ACCURATE TECHNOLOGY CO., LTD.**

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.: Bob #4754	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 13/02/01
Temp.( C)/Hum.(%) 26 C / 55 %	Time: 10/02/21
EUT: MID	Engineer Signature:
Mode: Channel 6(802.11n)20MHz	Distance: 3m
Model: VX-S7001	
Manufacturer: Sungworld	

Note: Report No.:ATE20130172



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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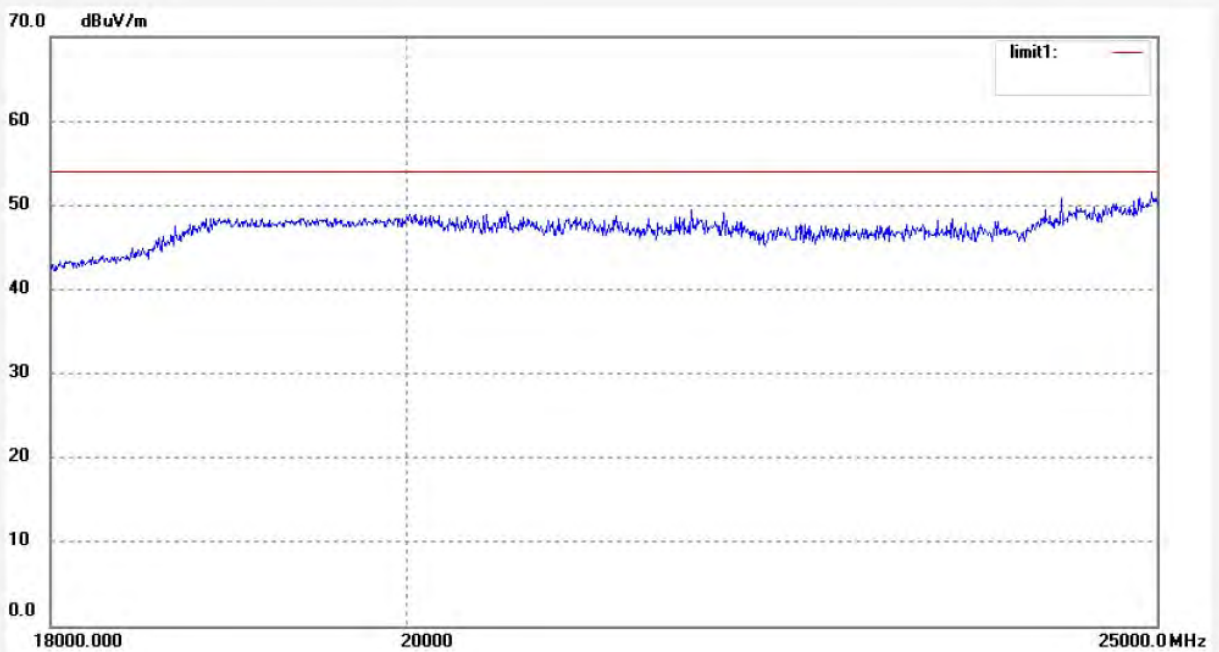
**ACCURATE TECHNOLOGY CO., LTD.**

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

Site: 966 chamber  
Tel:+86-0755-26503290  
Fax:+86-0755-26503396

Job No.: Bob #1616	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 13/02/2/
Temp.( C)/Hum.(%) 24 C / 48 %	Time: 11:05:58
EUT: MID	Engineer Signature: Bob
Mode: TX Channel 6 (802.11n)	Distance:
Model: VX-S7001	
Manufacturer: Sungworld	

Note: Report No.:ATE20130172



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.**

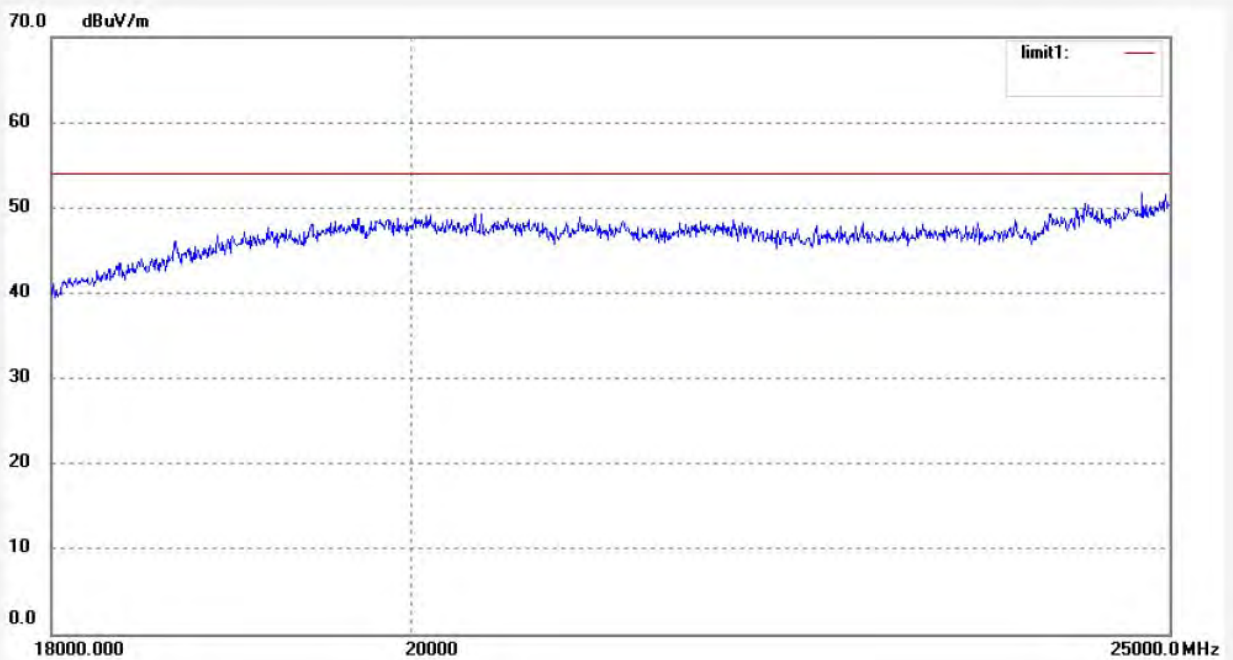
F1,Bldg,A,Changyuan New Material Port Keyuan Rd,  
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 966 chamber  
Tel:+86-0755-26503290  
Fax:+86-0755-26503396

Job No.: Bob #1615  
Standard: FCC Class B 3M Radiated  
Test item: Radiation Test  
Temp.( C)/Hum.(%) 24 C / 48 %  
EUT: MID  
Mode: TX Channel 6 (802.11n)  
Model: VX-S7001  
Manufacturer: Sungworld

Polarization: Vertical  
Power Source: AC 120V/60Hz  
Date: 13/02/2/  
Time: 11:02:36  
Engineer Signature: Bob  
Distance:

Note: Report No.:ATE20130172



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.**

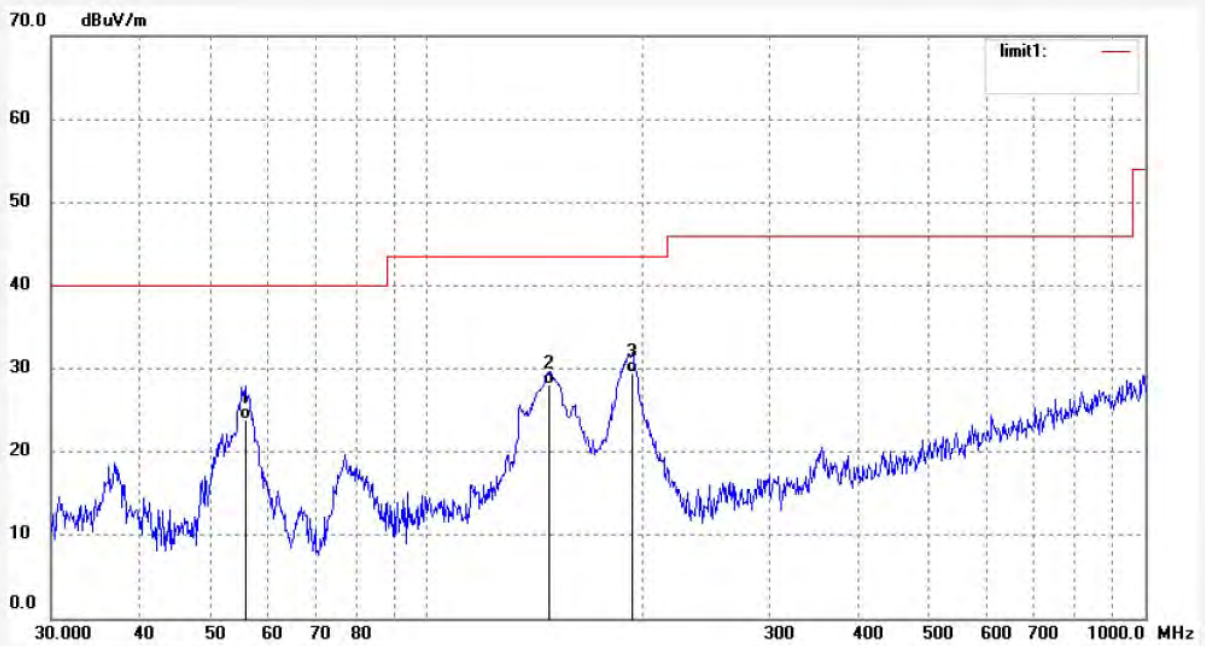
F1,Bldg,A,Changyuan New Material Port Keyuan Rd,  
Science & Industry Park,Nanshan Shenzhen,P.R.China

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

Job No.: Bob #4781  
Standard: FCC Class B 3M Radiated  
Test item: Radiation Test  
Temp.( C)/Hum.(%) 26 C / 55 %  
EUT: MID  
Mode: Channel 11(802.11n)  
Model: VX-S7001  
Manufacturer: Sungworld

Polarization: Horizontal  
Power Source: AC 120V/60Hz  
Date: 2013/02/01  
Time: 10:58:44  
Engineer Signature:  
Distance: 3m

Note: Report No.:ATE20130172



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	55.8742	10.02	13.90	23.92	40.00	-16.08	QP			
2	147.8747	16.63	11.51	28.14	43.50	-15.36	QP			
3	193.1366	15.54	13.96	29.50	43.50	-14.00	QP			



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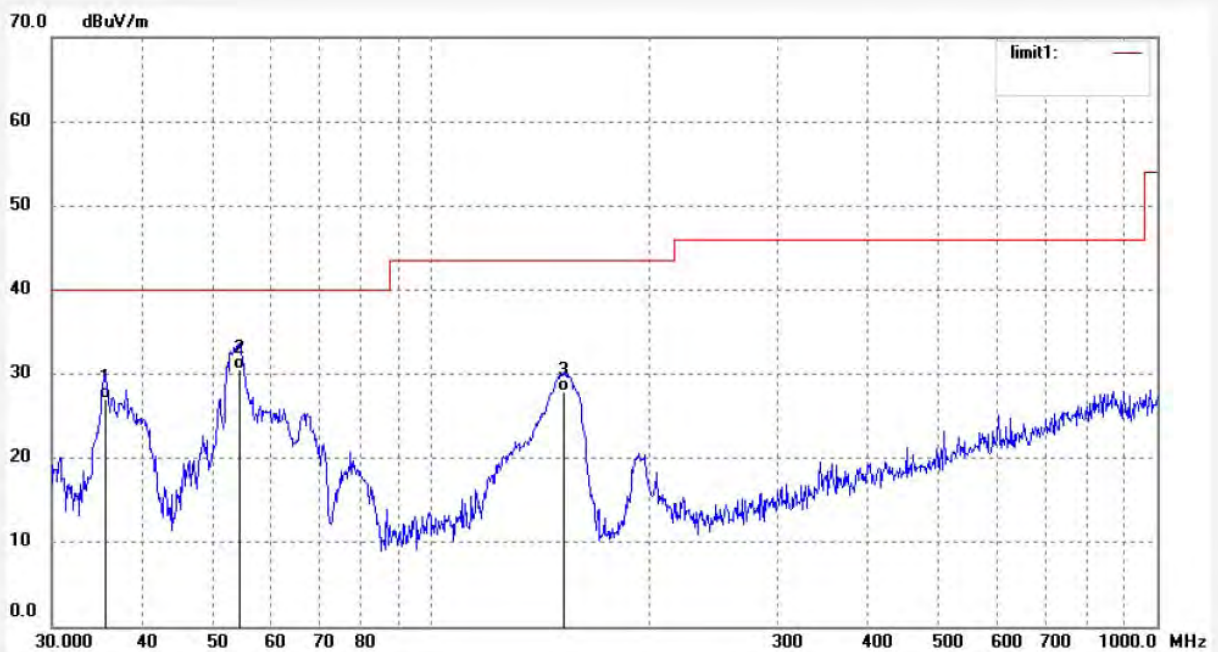
F1,Bldg,A,Changyuan New Material Port Keyuan Rd,  
Science & Industry Park,Nanshan Shenzhen,P.R.China

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

Job No.: Bob #4780  
Standard: FCC Class B 3M Radiated  
Test item: Radiation Test  
Temp.( C)/Hum.(%) 26 C / 55 %  
EUT: MID  
Mode: Channel 11(802.11n)  
Model: VX-S7001  
Manufacturer: Sungworld

Polarization: Vertical  
Power Source: AC 120V/60Hz  
Date: 2013/02/01  
Time: 10:56:47  
Engineer Signature:  
Distance: 3m

Note: Report No.:ATE20130172



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	35.5112	11.54	15.57	27.11	40.00	-12.89	QP			
2	54.3255	16.43	14.12	30.55	40.00	-9.45	QP			
3	152.0902	16.33	11.54	27.87	43.50	-15.63	QP			



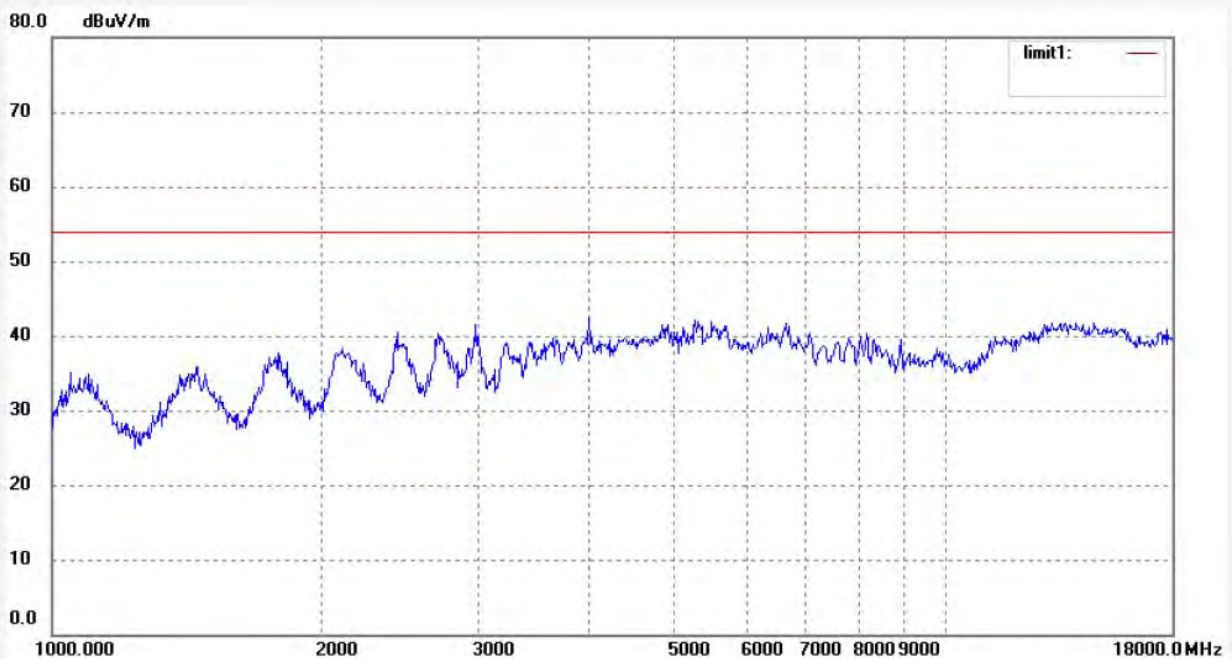
**ACCURATE TECHNOLOGY CO., LTD.**

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.: Bob #4756	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 13/02/01
Temp.( C)/Hum.(%) 26 C / 55 %	Time: 10/08/14
EUT: MID	Engineer Signature:
Mode: Channel 11(802.11n)20MHz	Distance: 3m
Model: VX-S7001	
Manufacturer: Sungworld	

Note: Report No.:ATE20130172



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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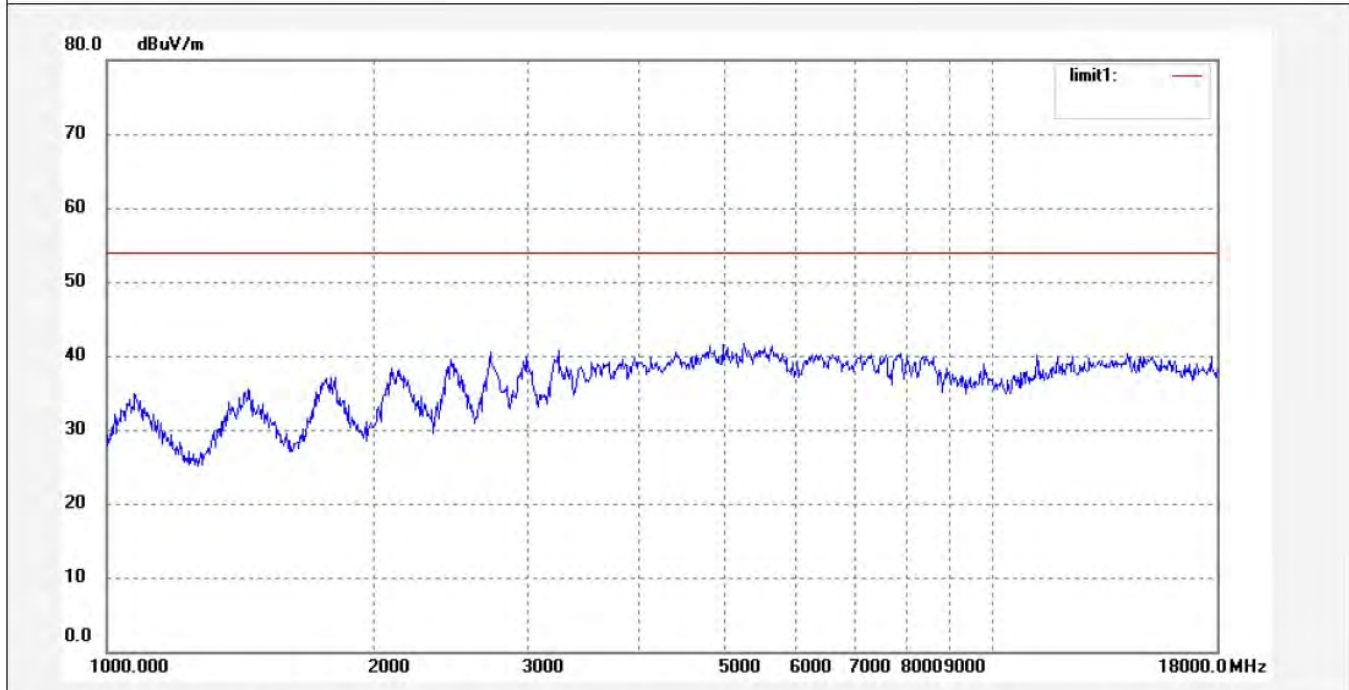
**ACCURATE TECHNOLOGY CO., LTD.**

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.: Bob #4757	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 13/02/01
Temp.( C)/Hum.(%) 26 C / 55 %	Time: 10/10/55
EUT: MID	Engineer Signature:
Mode: Channel 11(802.11n)20MHz	Distance: 3m
Model: VX-S7001	
Manufacturer: Sungworld	

Note: Report No.:ATE20130172



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.**

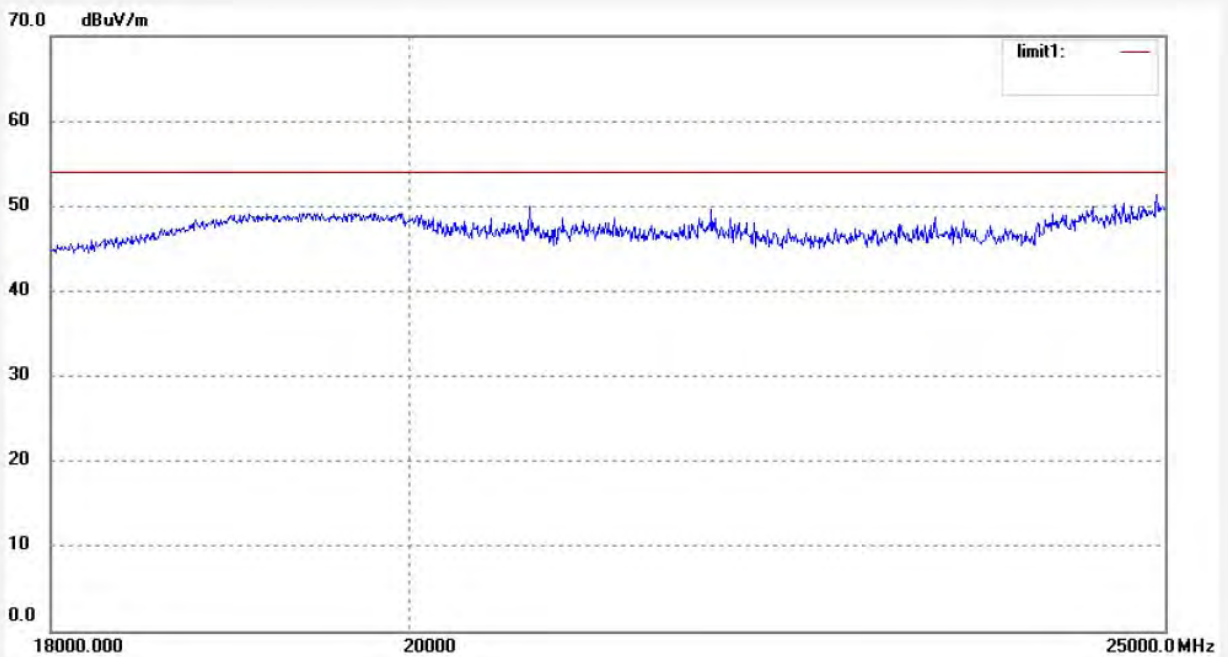
F1,Bldg,A,Changyuan New Material Port Keyuan Rd,  
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 966 chamber  
Tel:+86-0755-26503290  
Fax:+86-0755-26503396

Job No.: Bob #1613  
Standard: FCC Class B 3M Radiated  
Test item: Radiation Test  
Temp.( C)/Hum.(%) 24 C / 48 %  
EUT: MID  
Mode: TX Channel 11 (802.11n)  
Model: VX-S7001  
Manufacturer: Sungworld

Polarization: Horizontal  
Power Source: AC 120V/60Hz  
Date: 13/02/2/  
Time: 10:53:17  
Engineer Signature: Bob  
Distance:

Note: Report No.:ATE20130172



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.**

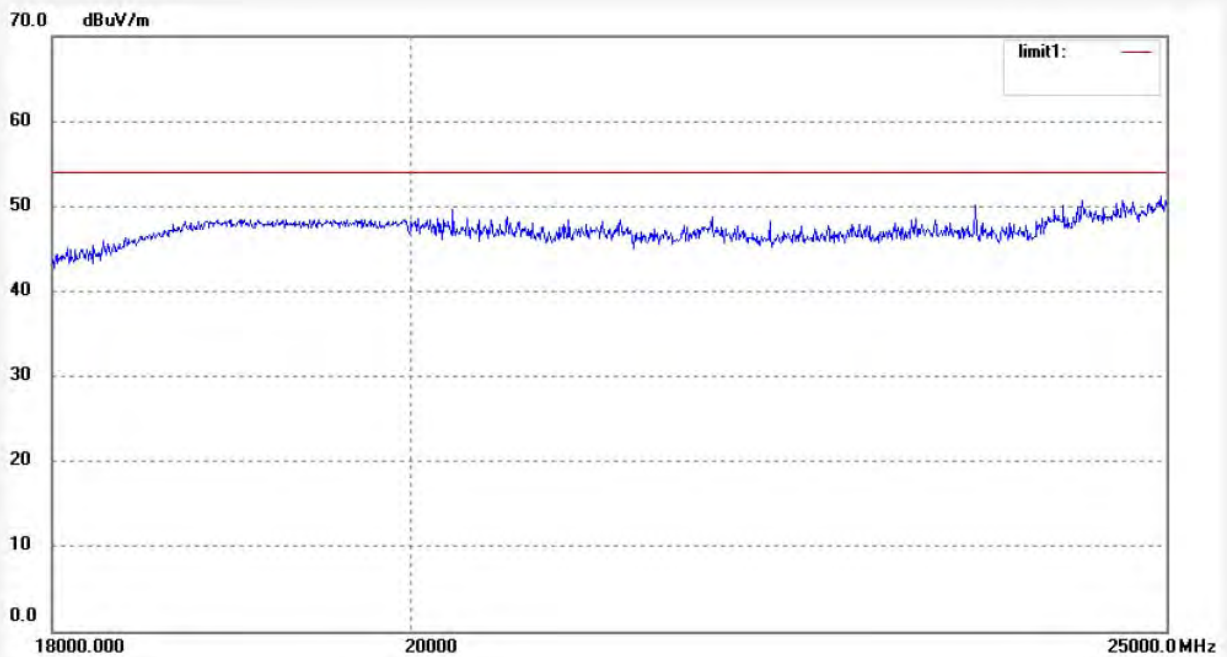
F1,Bldg,A,Changyuan New Material Port Keyuan Rd,  
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 966 chamber  
Tel:+86-0755-26503290  
Fax:+86-0755-26503396

Job No.: Bob #1614  
Standard: FCC Class B 3M Radiated  
Test item: Radiation Test  
Temp.( C)/Hum.(%) 24 C / 48 %  
EUT: MID  
Mode: TX Channel 11 (802.11n)  
Model: VX-S7001  
Manufacturer: Sungworld

Polarization: Vertical  
Power Source: AC 120V/60Hz  
Date: 13/02/2/  
Time: 10:57:05  
Engineer Signature: Bob  
Distance:

Note: Report No.:ATE20130172



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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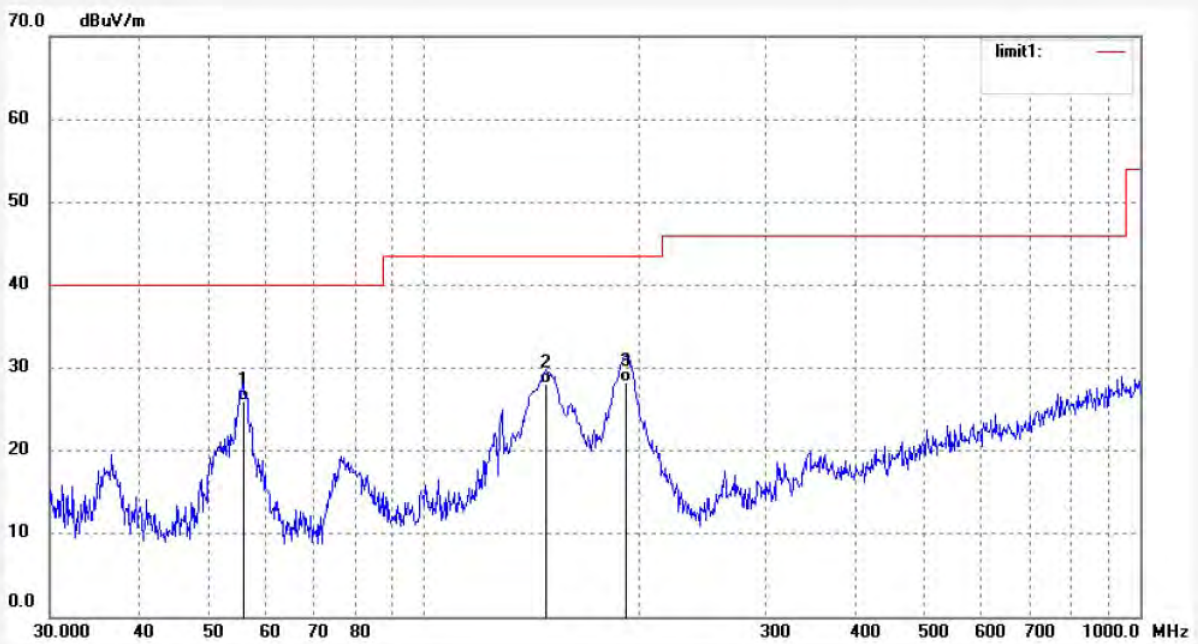
**ACCURATE TECHNOLOGY CO., LTD.**

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.: Bob #4782	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 2013/02/01
Temp.( C)/Hum.(%) 26 C / 55 %	Time: 11:00:01
EUT: MID	Engineer Signature:
Mode: Channel 3(802.11n)	Distance: 3m
Model: VX-S7001	
Manufacturer: Sungworld	

Note: Report No.:ATE20130172



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	55.8742	12.02	13.90	25.92	40.00	-14.08	QP			
2	148.3951	16.57	11.51	28.08	43.50	-15.42	QP			
3	190.4411	14.44	13.88	28.32	43.50	-15.18	QP			



**ACCURATE TECHNOLOGY CO., LTD.**

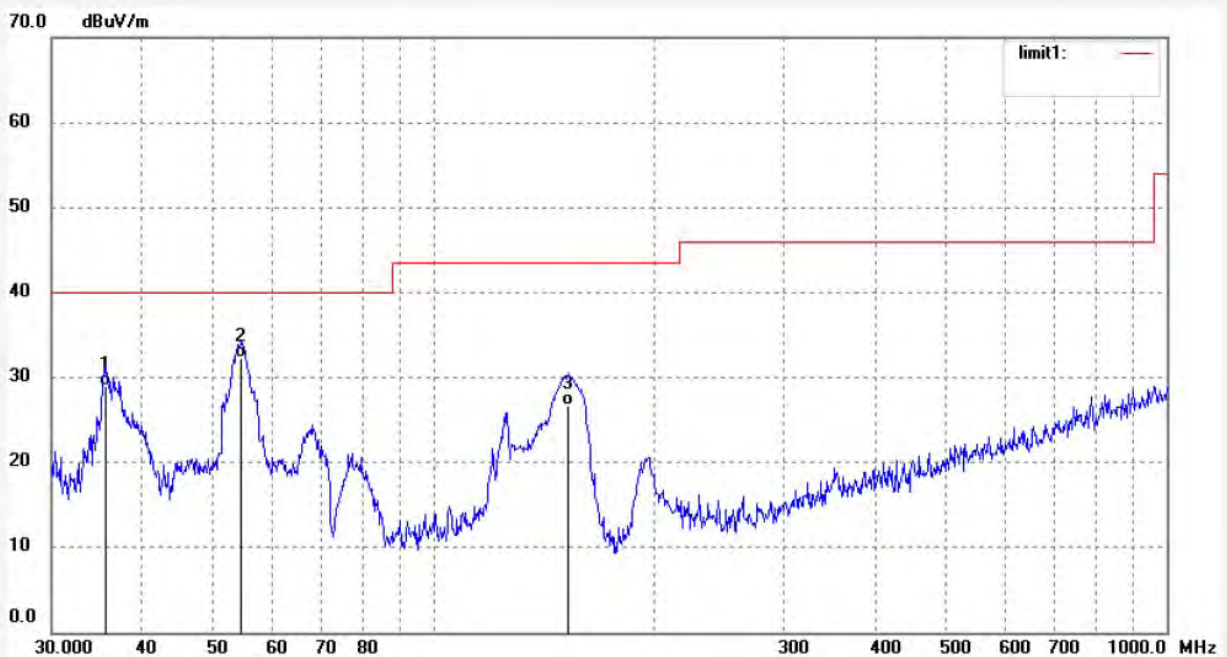
F1,Bldg,A,Changyuan New Material Port Keyuan Rd,  
Science & Industry Park,Nanshan Shenzhen,P.R.China

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

Job No.: Bob #4783  
Standard: FCC Class B 3M Radiated  
Test item: Radiation Test  
Temp.( C)/Hum.(%) 26 C / 55 %  
EUT: MID  
Mode: Channel 3(802.11n)  
Model: VX-S7001  
Manufacturer: Sungworld

Polarization: Vertical  
Power Source: AC 120V/60Hz  
Date: 2013/02/01  
Time: 11:02:51  
Engineer Signature:  
Distance: 3m

Note: Report No.:ATE20130172



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	35.3867	13.33	15.60	28.93	40.00	-11.07	QP			
2	54.5167	18.21	14.10	32.31	40.00	-7.69	QP			
3	152.6255	15.15	11.55	26.70	43.50	-16.80	QP			



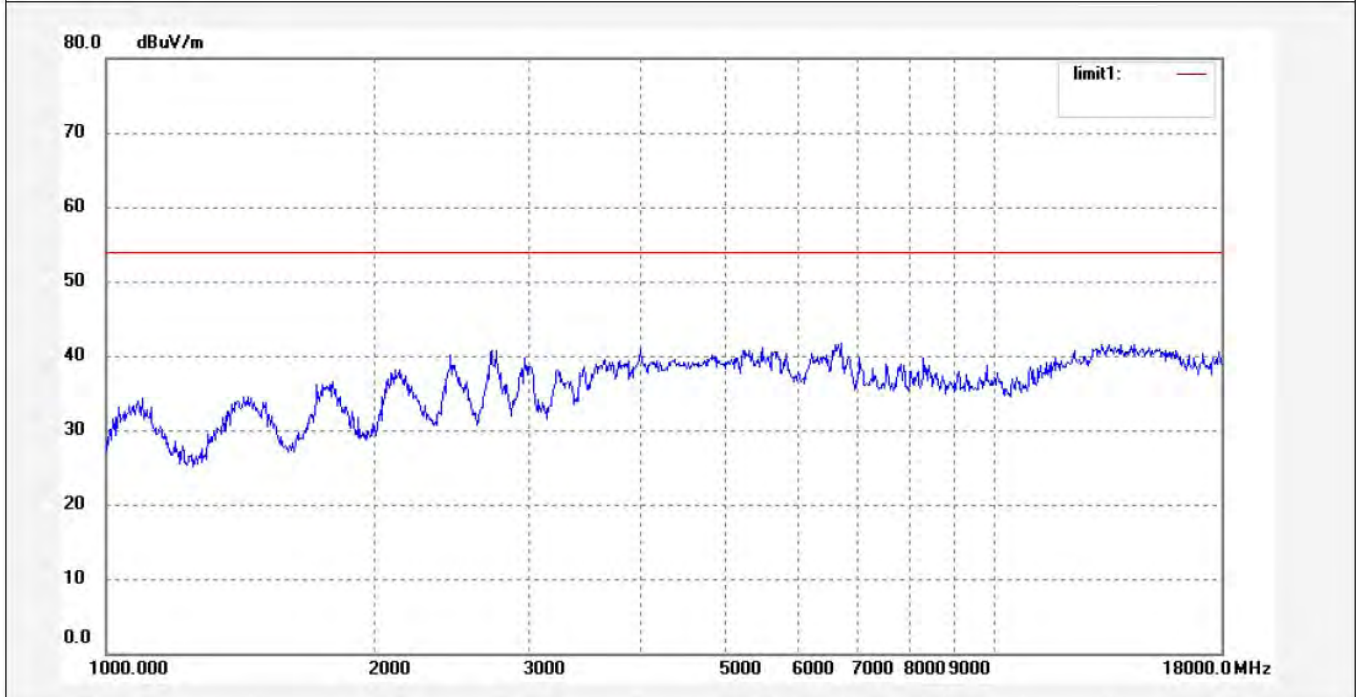
**ACCURATE TECHNOLOGY CO., LTD.**

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.: Bob #4759	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 13/02/01
Temp.( C)/Hum.(%) 26 C / 55 %	Time: 10/14/02
EUT: MID	Engineer Signature:
Mode: Channel 3(802.11n)40MHz	Distance: 3m
Model: VX-S7001	
Manufacturer: Sungworld	

Note: Report No.:ATE20130172



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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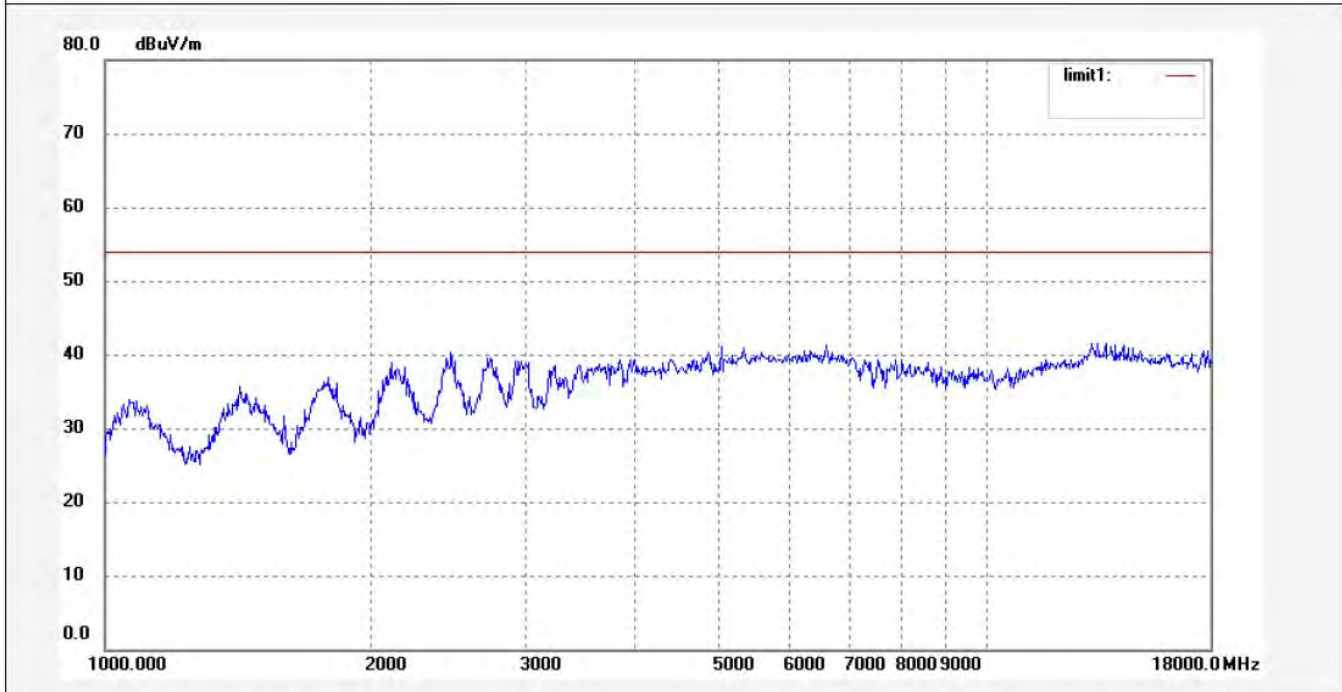
**ACCURATE TECHNOLOGY CO., LTD.**

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.: Bob #4758	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 13/02/01
Temp.( C)/Hum.(%) 26 C / 55 %	Time: 10/12/37
EUT: MID	Engineer Signature:
Mode: Channel 3(802.11n)40MHz	Distance: 3m
Model: VX-S7001	
Manufacturer: Sungworld	

Note: Report No.:ATE20130172



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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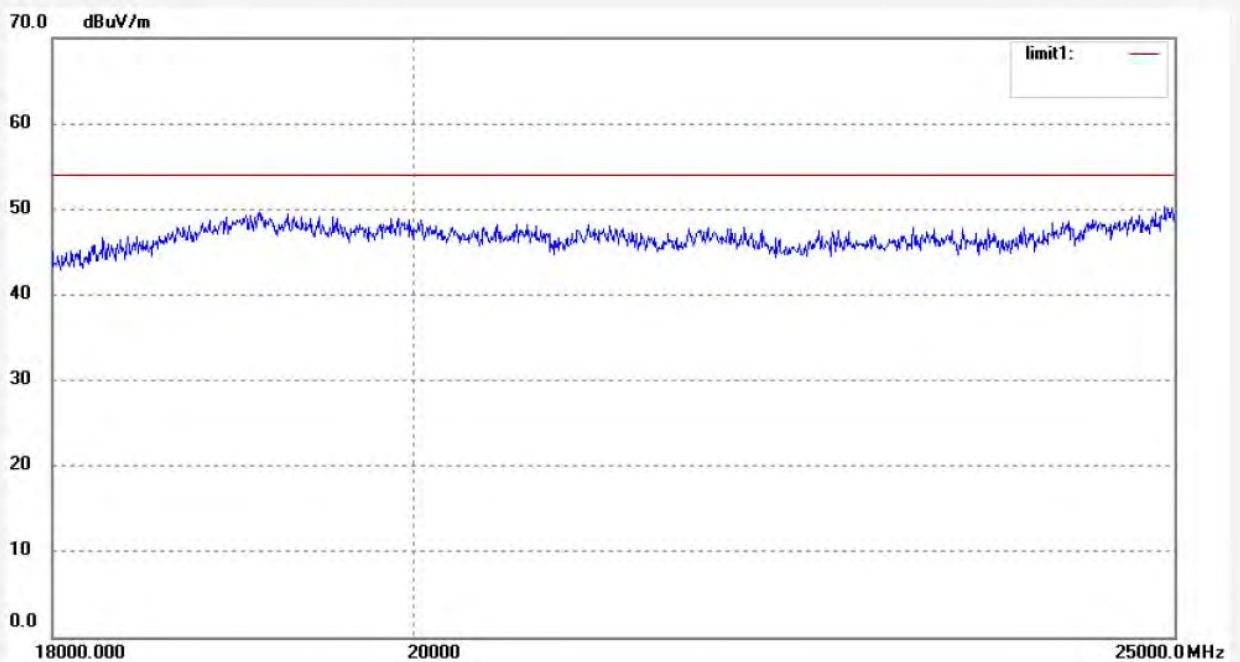
**ACCURATE TECHNOLOGY CO., LTD.**

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

Site: 966 chamber  
Tel:+86-0755-26503290  
Fax:+86-0755-26503396

Job No.: Bob #5916	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 13/02/2/
Temp.( C)/Hum.(%) 25 C / 50 %	Time: 11:52:09
EUT: MID	Engineer Signature: Bob
Mode: TX Channel 3 (802.11n)	Distance:
Model: VX-S7001	
Manufacturer: Sungworld	

Note: Report No.:ATE20130172



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.**

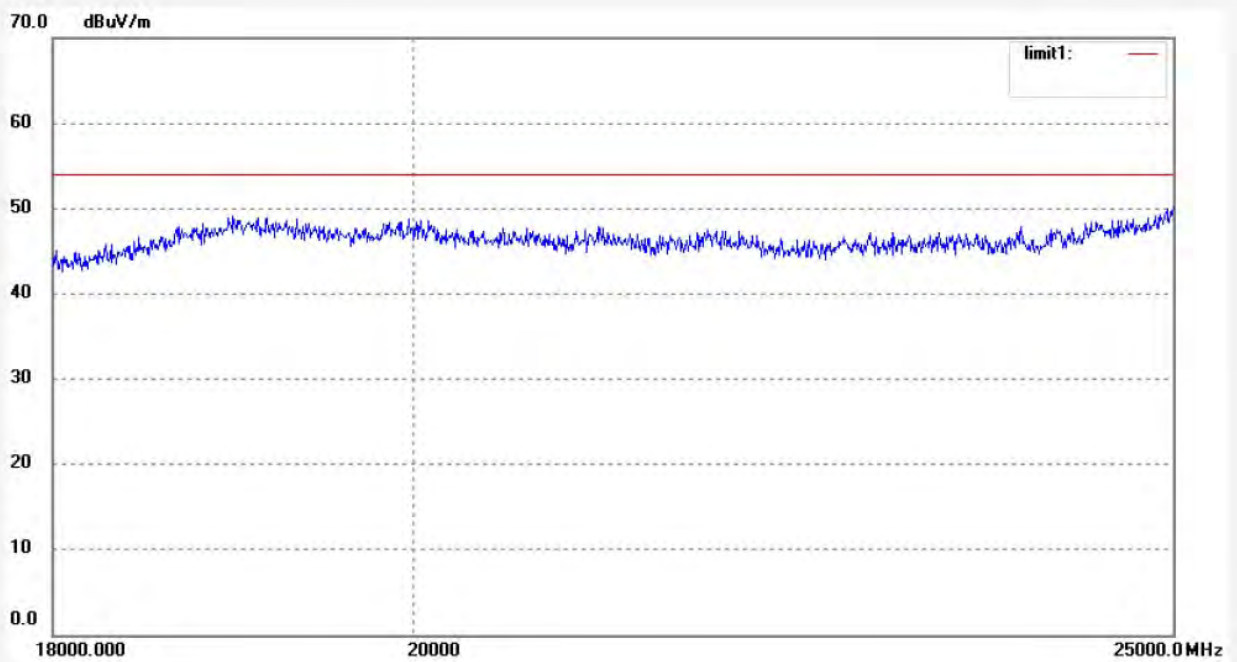
F1,Bldg,A,Changyuan New Material Port Keyuan Rd,  
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 966 chamber  
Tel:+86-0755-26503290  
Fax:+86-0755-26503396

Job No.: Bob #5917  
Standard: FCC Class B 3M Radiated  
Test item: Radiation Test  
Temp.( C)/Hum.(%) 25 C / 50 %  
EUT: MID  
Mode: TX Channel 3 (802.11n)  
Model: VX-S7001  
Manufacturer: Sungworld

Polarization: Vertical  
Power Source: AC 120V/60Hz  
Date: 13/02/2/  
Time: 11:56:43  
Engineer Signature: Bob  
Distance:

Note: Report No.:ATE20130172



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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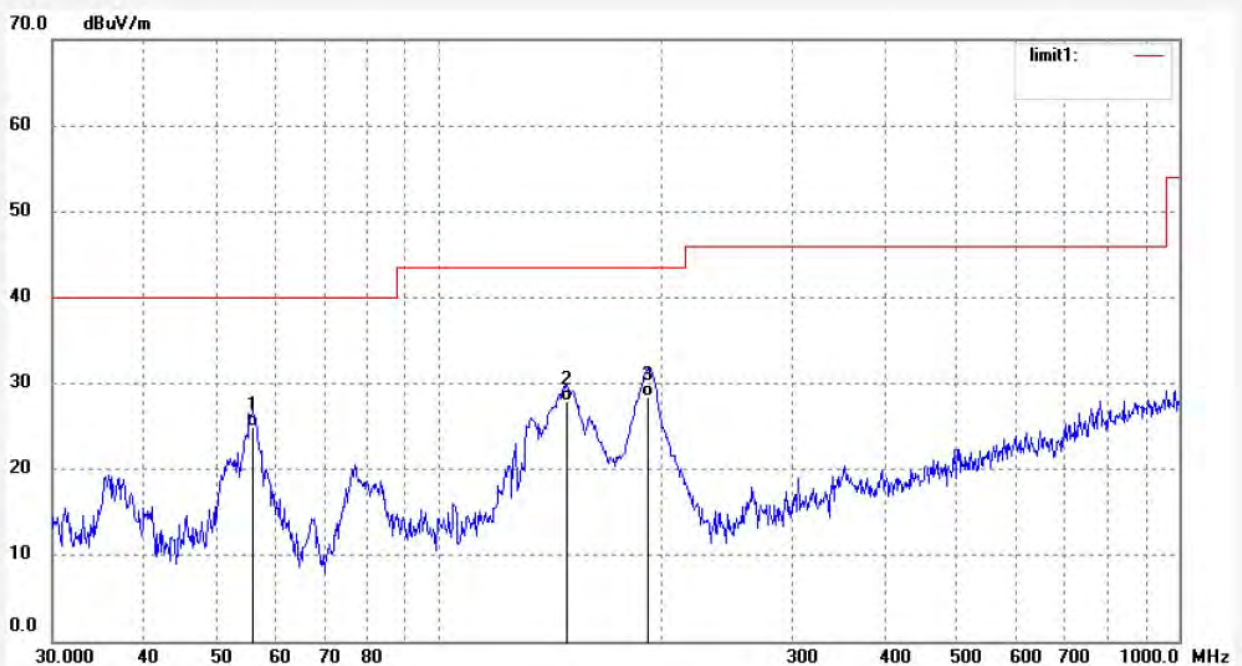
**ACCURATE TECHNOLOGY CO., LTD.**

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.: Bob #4785	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 2013/02/01
Temp.( C)/Hum.(%) 26 C / 55 %	Time: 11:06:28
EUT: MID	Engineer Signature:
Mode: Channel 6(802.11n)	Distance: 3m
Model: VX-S7001	
Manufacturer: Sungworld	

Note: Report No.:ATE20130172



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	56.0708	11.01	13.86	24.87	40.00	-15.13	QP			
2	148.9175	16.32	11.52	27.84	43.50	-15.66	QP			
3	191.1114	14.47	13.90	28.37	43.50	-15.13	QP			



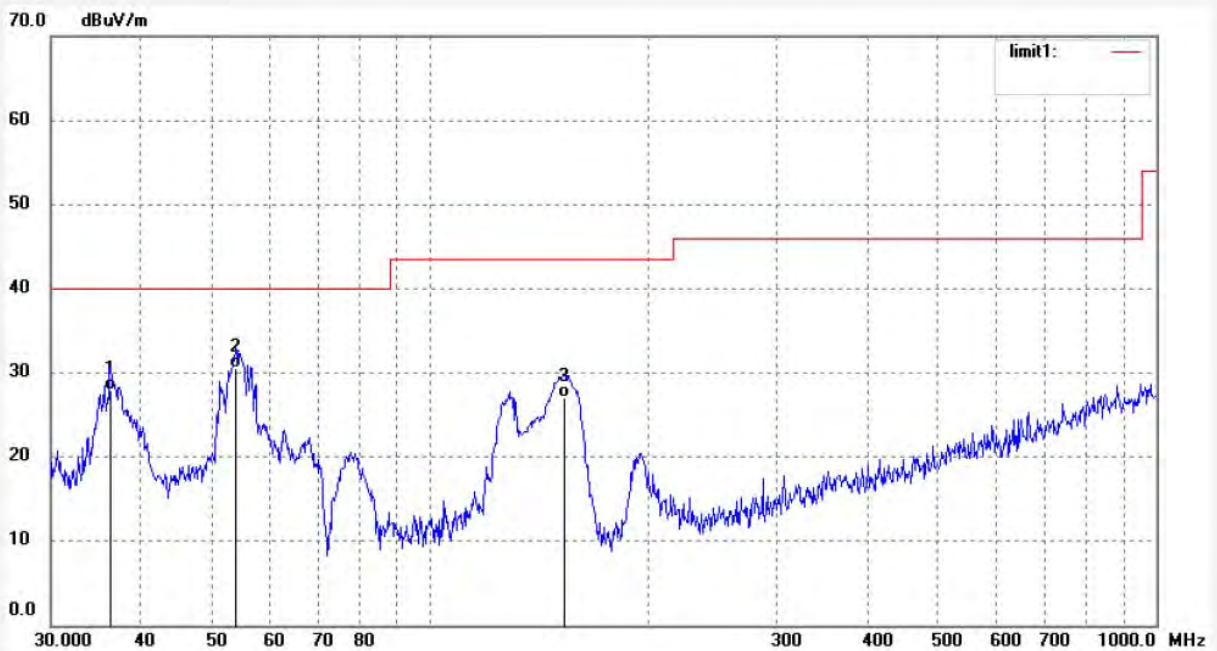
**ACCURATE TECHNOLOGY CO., LTD.**

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.: Bob #4784	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 2013/02/01
Temp.( C)/Hum.(%) 26 C / 55 %	Time: 11:04:21
EUT: MID	Engineer Signature:
Mode: Channel 6(802.11n)	Distance: 3m
Model: VX-S7001	
Manufacturer: Sungworld	

Note: Report No.:ATE20130172



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	36.2678	12.51	15.40	27.91	40.00	-12.09	QP			
2	53.9451	16.32	14.15	30.47	40.00	-9.53	QP			
3	153.1627	15.55	11.55	27.10	43.50	-16.40	QP			



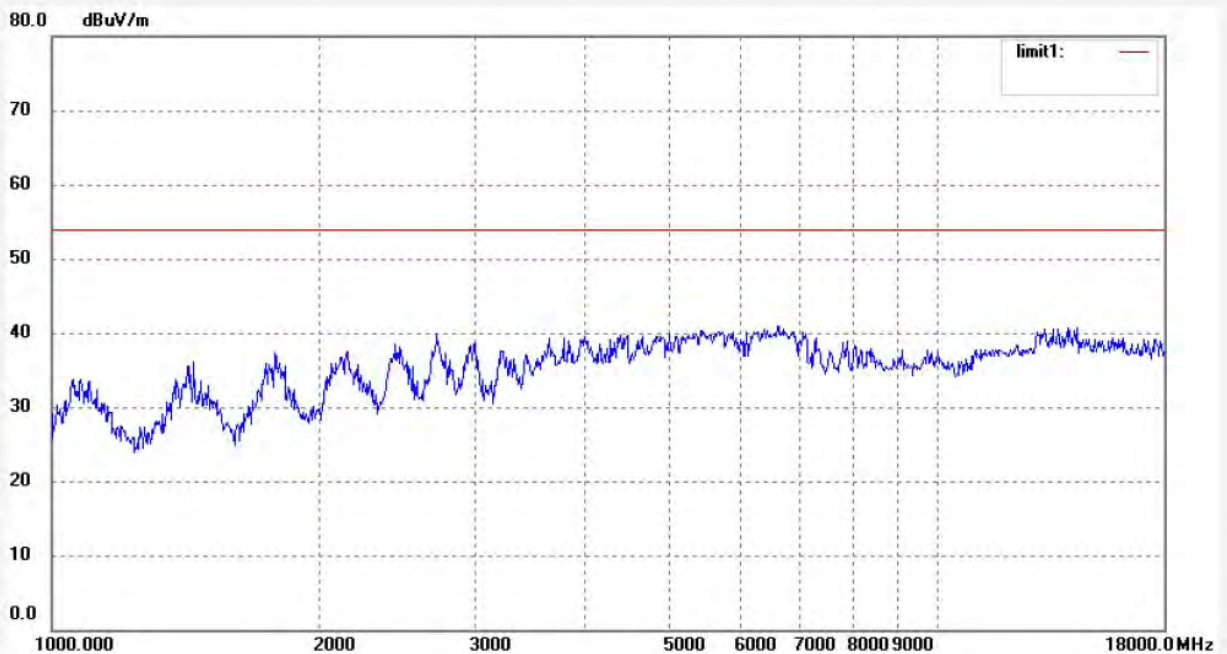
**ACCURATE TECHNOLOGY CO., LTD.**

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.: Bob #4760	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 13/02/01
Temp.( C)/Hum.(%) 26 C / 55 %	Time: 10/16/34
EUT: MID	Engineer Signature:
Mode: Channel 6(802.11n)40MHz	Distance: 3m
Model: VX-S7001	
Manufacturer: Sungworld	

Note: Report No.:ATE20130172



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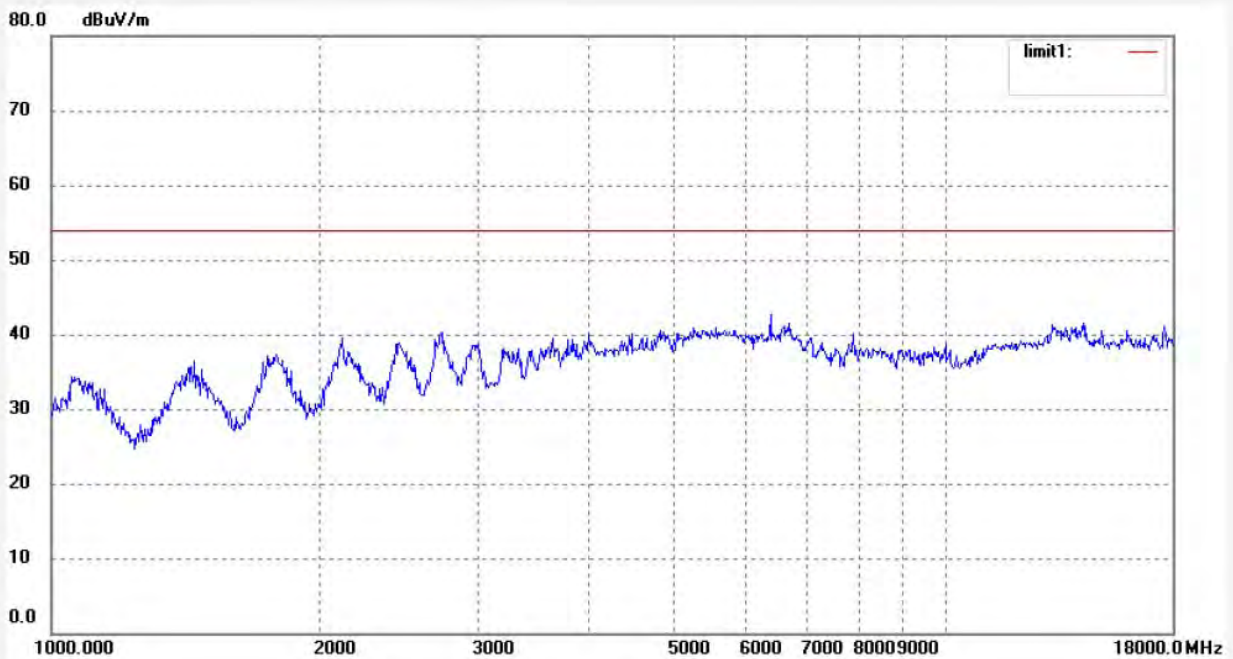
F1,Bldg.A,Changyuan New Material Port Keyuan Rd,  
Science & Industry Park,Nanshan Shenzhen,P.R.China

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

Job No.: Bob #4761  
Standard: FCC Class B 3M Radiated  
Test item: Radiation Test  
Temp.( C)/Hum.(%) 26 C / 55 %  
EUT: MID  
Mode: Channel 6(802.11n)40MHz  
Model: VX-S7001  
Manufacturer: Sungworld

Polarization: Vertical  
Power Source: AC 120V/60Hz  
Date: 13/02/01  
Time: 10/18/09  
Engineer Signature:  
Distance: 3m

Note: Report No.:ATE20130172



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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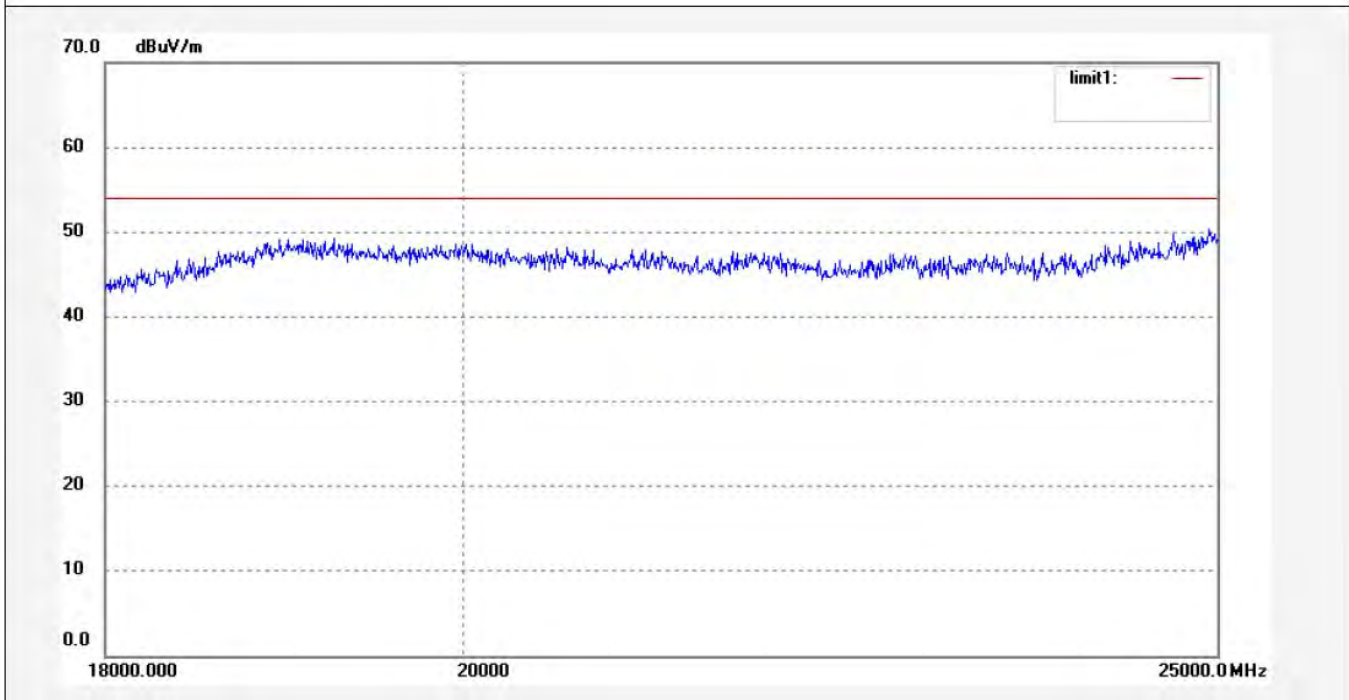
**ACCURATE TECHNOLOGY CO., LTD.**

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

Site: 966 chamber  
Tel:+86-0755-26503290  
Fax:+86-0755-26503396

Job No.: Bob #5919	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 13/02/2/
Temp.( C)/Hum.(%) 25 C / 50 %	Time: 12:05:30
EUT: MID	Engineer Signature: Bob
Mode: TX Channel 6 (802.11n)	Distance:
Model: VX-S7001	
Manufacturer: Sungworld	

Note: Report No.:ATE20130172



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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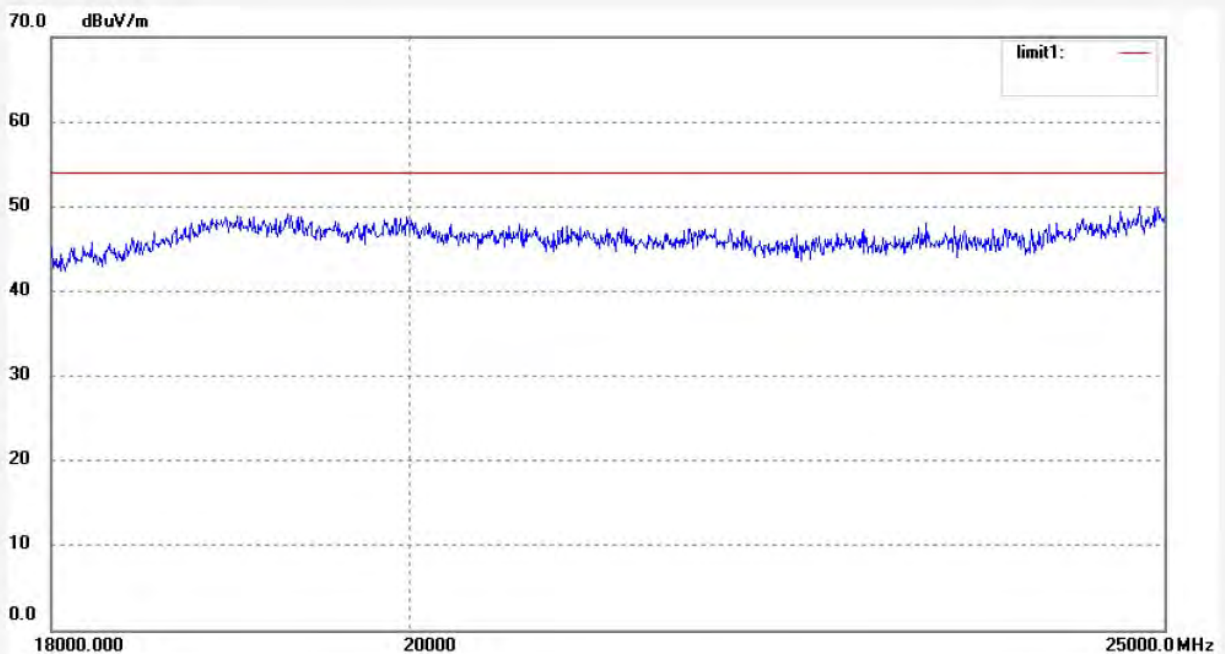
**ACCURATE TECHNOLOGY CO., LTD.**

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

Site: 966 chamber  
Tel:+86-0755-26503290  
Fax:+86-0755-26503396

Job No.: Bob #5918	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 13/02/2/
Temp.( C)/Hum.(%) 25 C / 50 %	Time: 12:01:19
EUT: MID	Engineer Signature: Bob
Mode: TX Channel 6 (802.11n)	Distance:
Model: VX-S7001	
Manufacturer: Sungworld	

Note: Report No.:ATE20130172



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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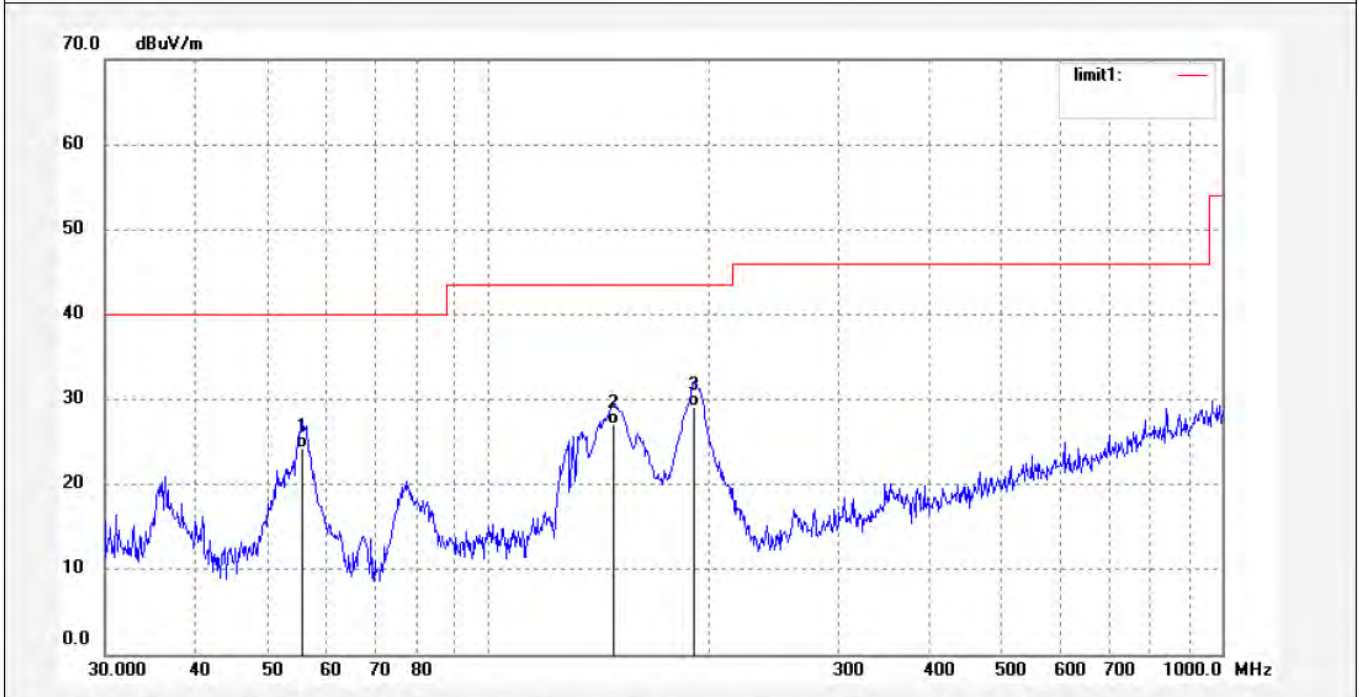
**ACCURATE TECHNOLOGY CO., LTD.**

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.: Bob #4786	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 2013/02/01
Temp.( C)/Hum.(%) 26 C / 55 %	Time: 11:08:02
EUT: MID	Engineer Signature:
Mode: Channel 9(802.11n)	Distance: 3m
Model: VX-S7001	
Manufacturer: Sungworld	

Note: Report No.:ATE20130172



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	55.6782	10.33	13.94	24.27	40.00	-15.73	QP			
2	147.8747	15.54	11.51	27.05	43.50	-16.45	QP			
3	190.4411	15.21	13.88	29.09	43.50	-14.41	QP			





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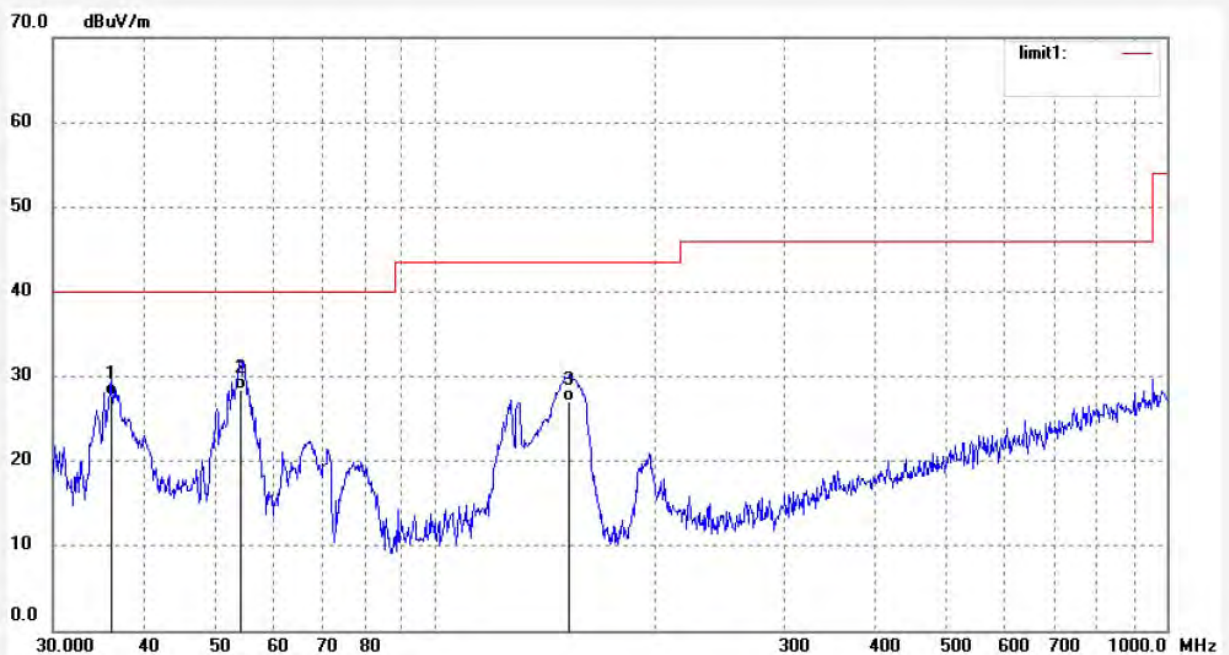
F1,Bldg,A,Changyuan New Material Port Keyuan Rd,  
Science & Industry Park,Nanshan Shenzhen,P.R.China

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

Job No.: Bob #4787  
Standard: FCC Class B 3M Radiated  
Test item: Radiation Test  
Temp.( C)/Hum.(%) 26 C / 55 %  
EUT: MID  
Mode: Channel 9(802.11n)  
Model: VX-S7001  
Manufacturer: Sungworld

Polarization: Vertical  
Power Source: AC 120V/60Hz  
Date: 2013/02/01  
Time: 11:10:41  
Engineer Signature:  
Distance: 3m

Note: Report No.:ATE20130172



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	36.0139	12.22	15.46	27.68	40.00	-12.32	QP			
2	54.1349	14.32	14.14	28.46	40.00	-11.54	QP			
3	152.6255	15.47	11.55	27.02	43.50	-16.48	QP			



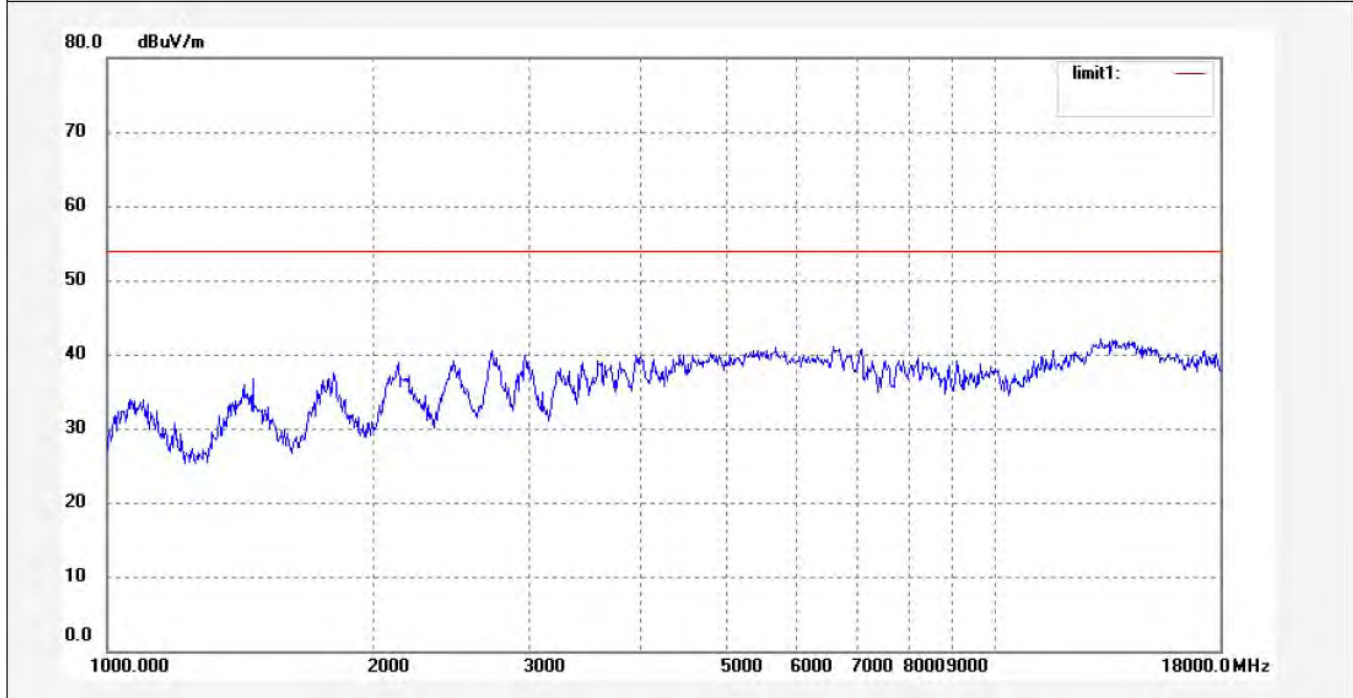
**ACCURATE TECHNOLOGY CO., LTD.**

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.: Bob #4763	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 13/02/01
Temp.( C)/Hum.(%) 26 C / 55 %	Time: 10/22/55
EUT: MID	Engineer Signature:
Mode: Channel 9(802.11n)40MHz	Distance: 3m
Model: VX-S7001	
Manufacturer: Sungworld	

Note: Report No.:ATE20130172



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.**

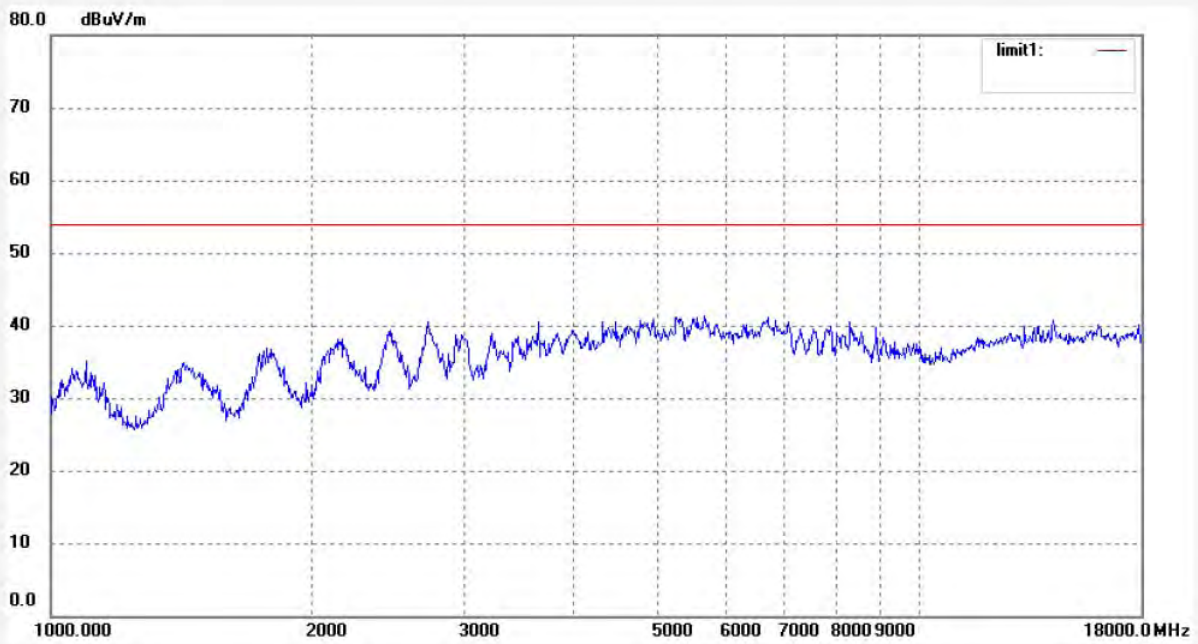
F1,Bldg.A,Changyuan New Material Port Keyuan Rd,  
Science & Industry Park,Nanshan Shenzhen,P.R.China

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

Job No.: Bob #4762  
Standard: FCC Class B 3M Radiated  
Test item: Radiation Test  
Temp.( C)/Hum.(%) 26 C / 55 %  
EUT: MID  
Mode: Channel 9(802.11n)40MHz  
Model: VX-S7001  
Manufacturer: Sungworld

Polarization: Vertical  
Power Source: AC 120V/60Hz  
Date: 13/02/01  
Time: 10/20/11  
Engineer Signature:  
Distance: 3m

Note: Report No.:ATE20130172



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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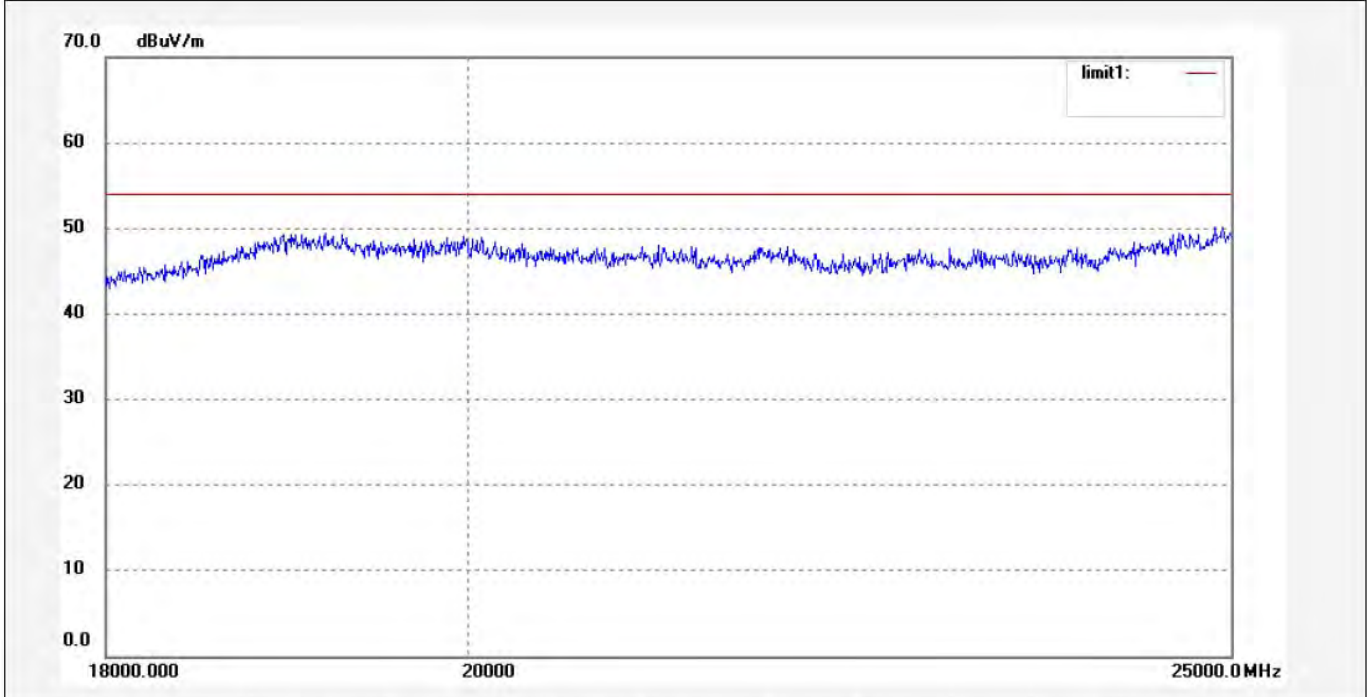
**ACCURATE TECHNOLOGY CO., LTD.**

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

Site: 966 chamber  
Tel:+86-0755-26503290  
Fax:+86-0755-26503396

Job No.: Bob #5920	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 13/02/2/
Temp.( C)/Hum.(%) 25 C / 50 %	Time: 12:10:41
EUT: MID	Engineer Signature: Bob
Mode: TX Channel 9 (802.11n)	Distance:
Model: VX-S7001	
Manufacturer: Sungworld	

Note: Report No.:ATE20130172



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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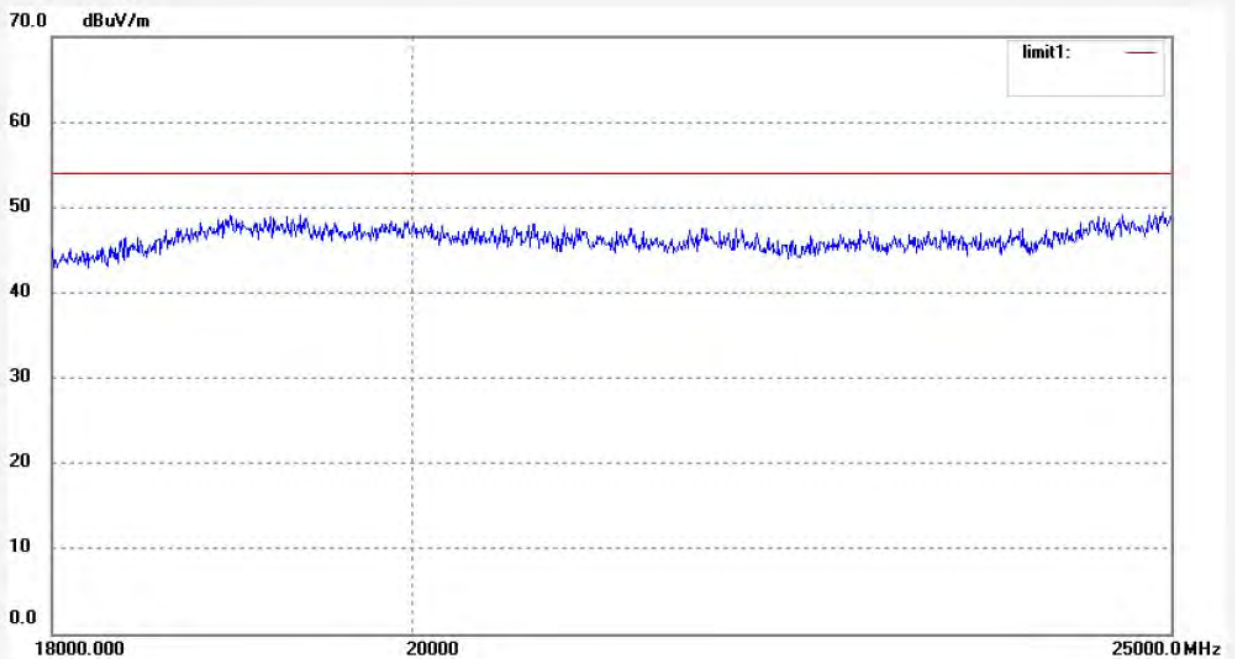
**ACCURATE TECHNOLOGY CO., LTD.**

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

Site: 966 chamber  
Tel:+86-0755-26503290  
Fax:+86-0755-26503396

Job No.: Bob #5921	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 13/02/2/
Temp.( C)/Hum.(%) 25 C / 50 %	Time: 12:15:08
EUT: MID	Engineer Signature: Bob
Mode: TX Channel 9 (802.11n)	Distance:
Model: VX-S7001	
Manufacturer: Sungworld	

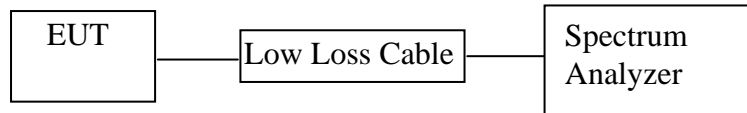
Note: Report No.:ATE20130172



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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## 10. CONDUCTED SPURIOUS EMISSION COMPLIANCE TEST

### 10.1. Block Diagram of Test Setup



(EUT: MID)

### 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. MID (EUT)

Model Number	:	VX-S7001
Serial Number	:	N/A
Manufacturer	:	Shenzhen Sungworld Electronics 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).

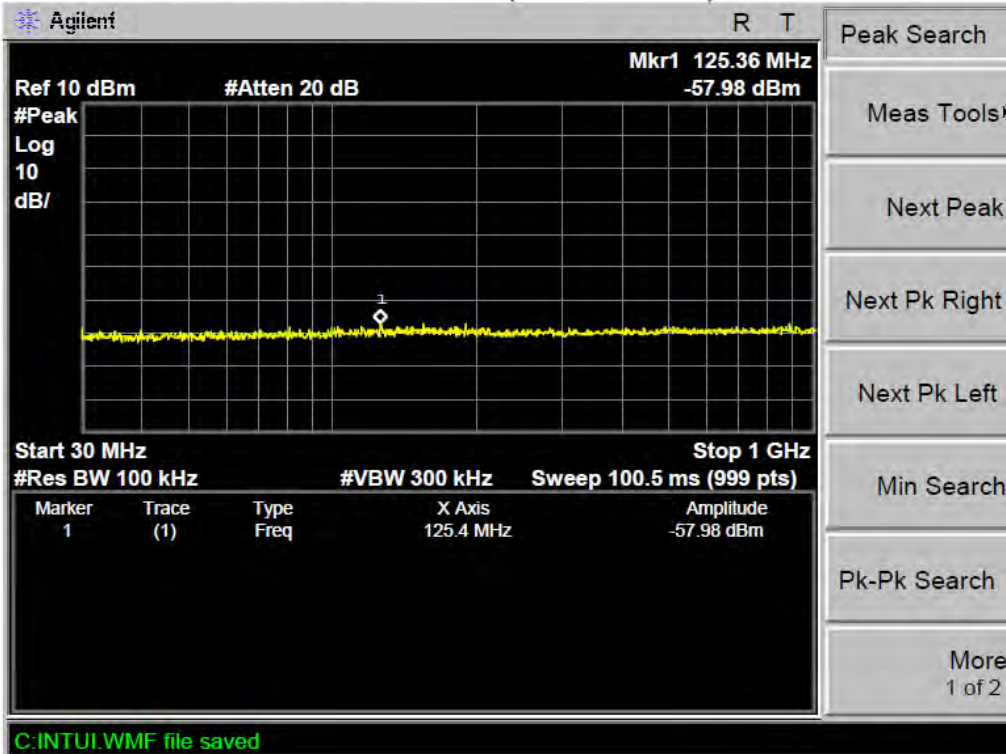
10.5.4. The Conducted Spurious Emission was measured and recorded.

## 10.6. Test Result

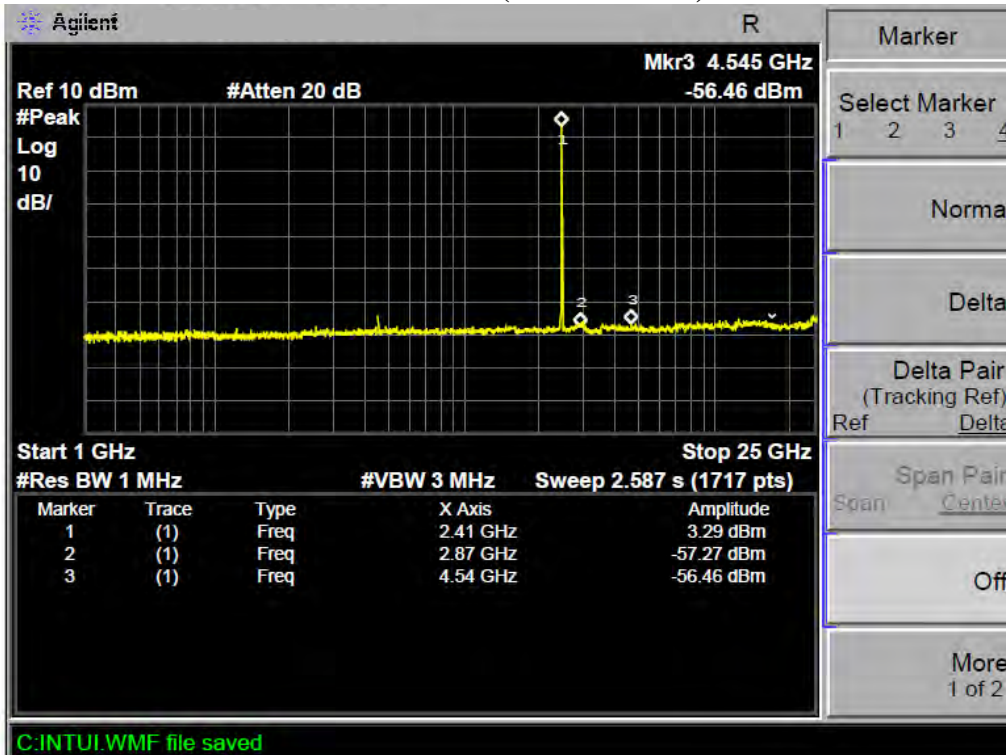
**Pass.**

The spectrum analyzer plots are attached as below.

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

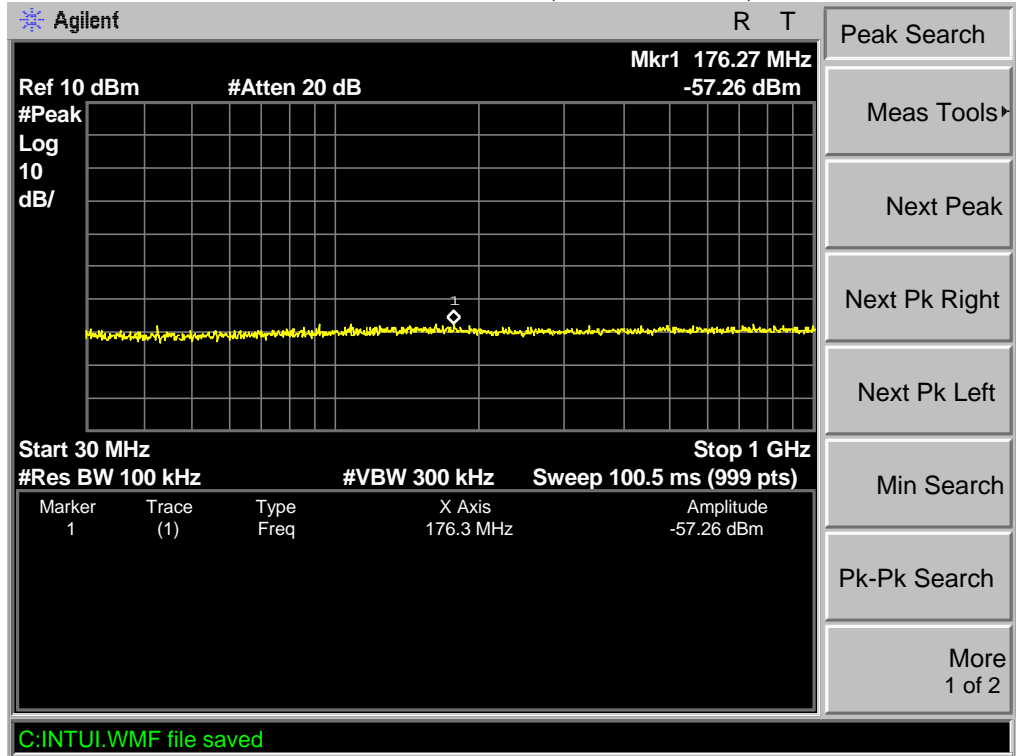


TX 802.11b Channel Low 2412MHz (1GHz-25GHz)

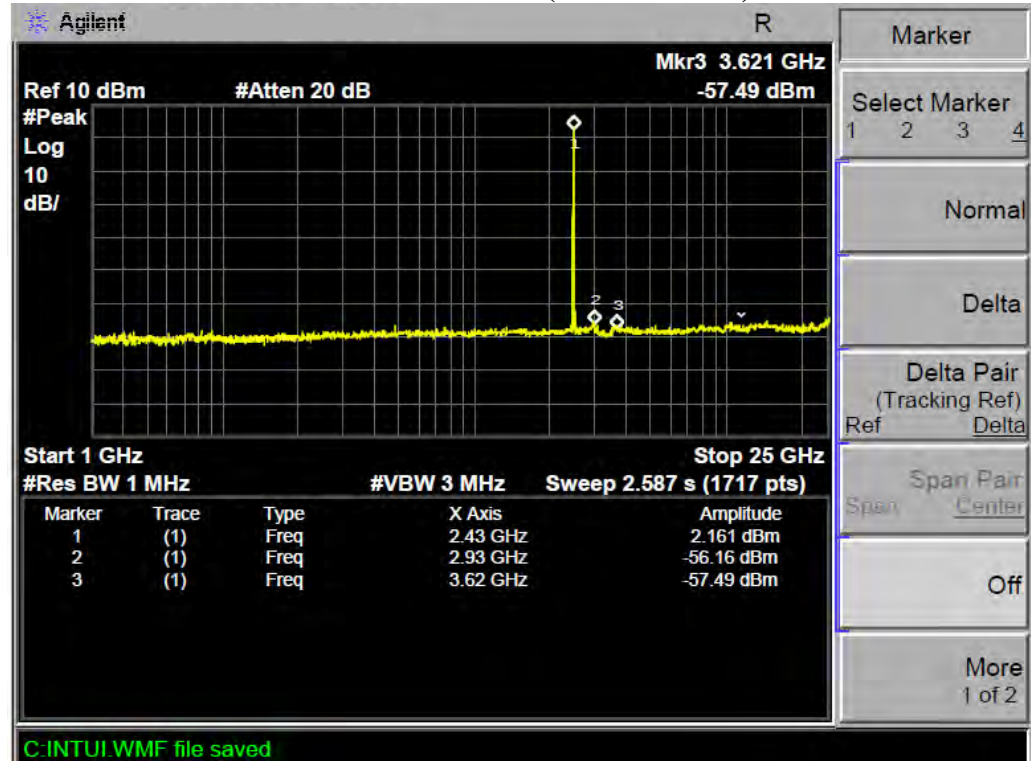




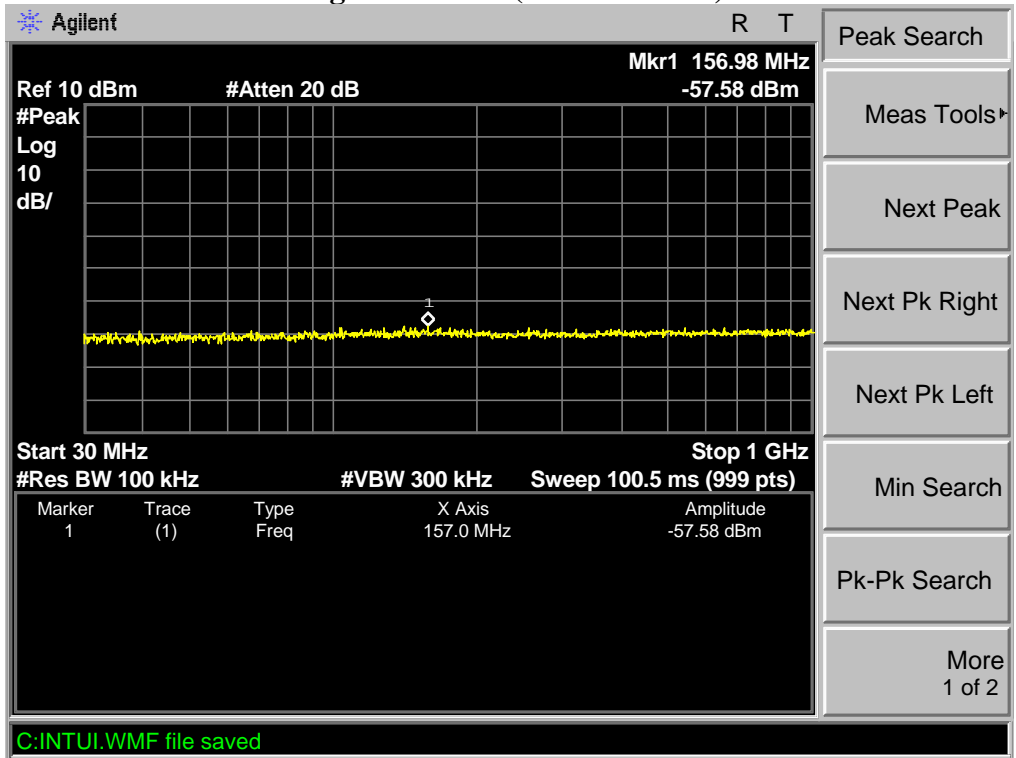
**TX 802.11b Channel Middle 2437MHz (30MHz-1GHz)**



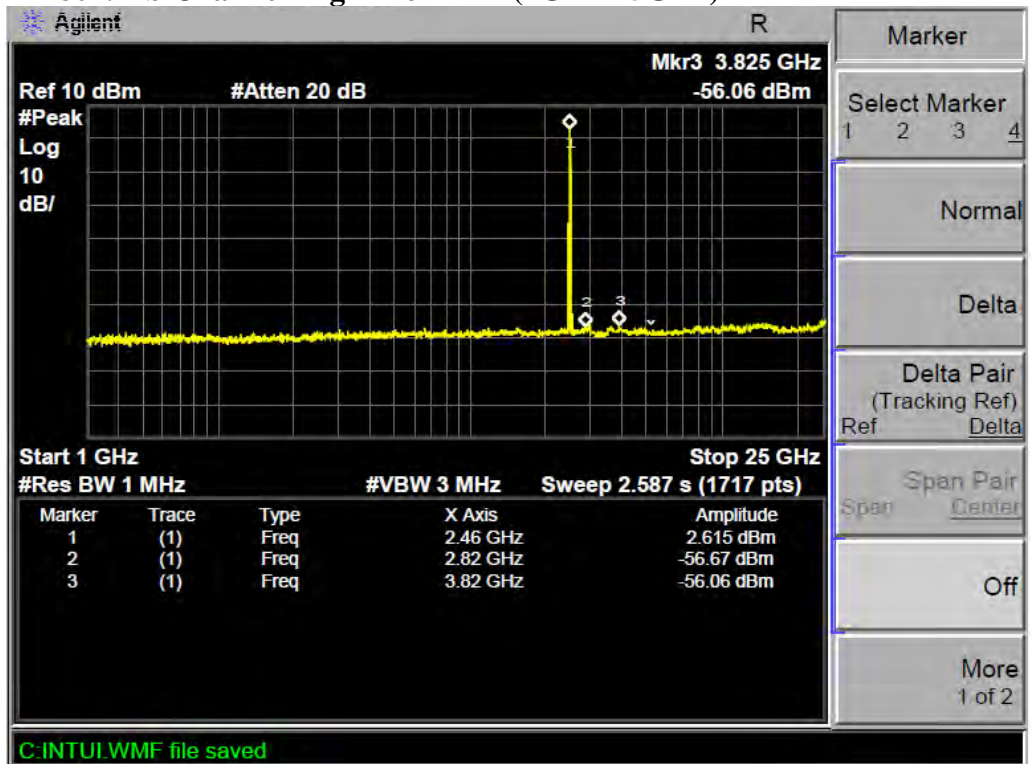
**TX 802.11b Channel Middle 2437MHz (1GHz-25GHz)**



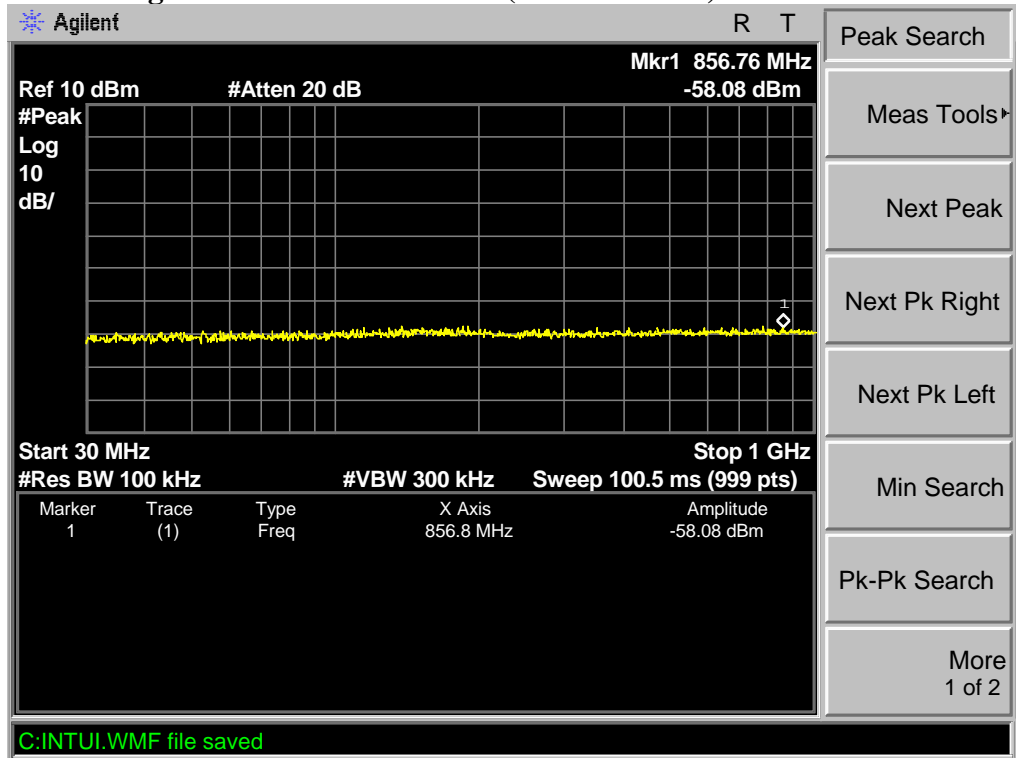
### TX 802.11b Channel High 2462MHz (30MHz-1GHz)



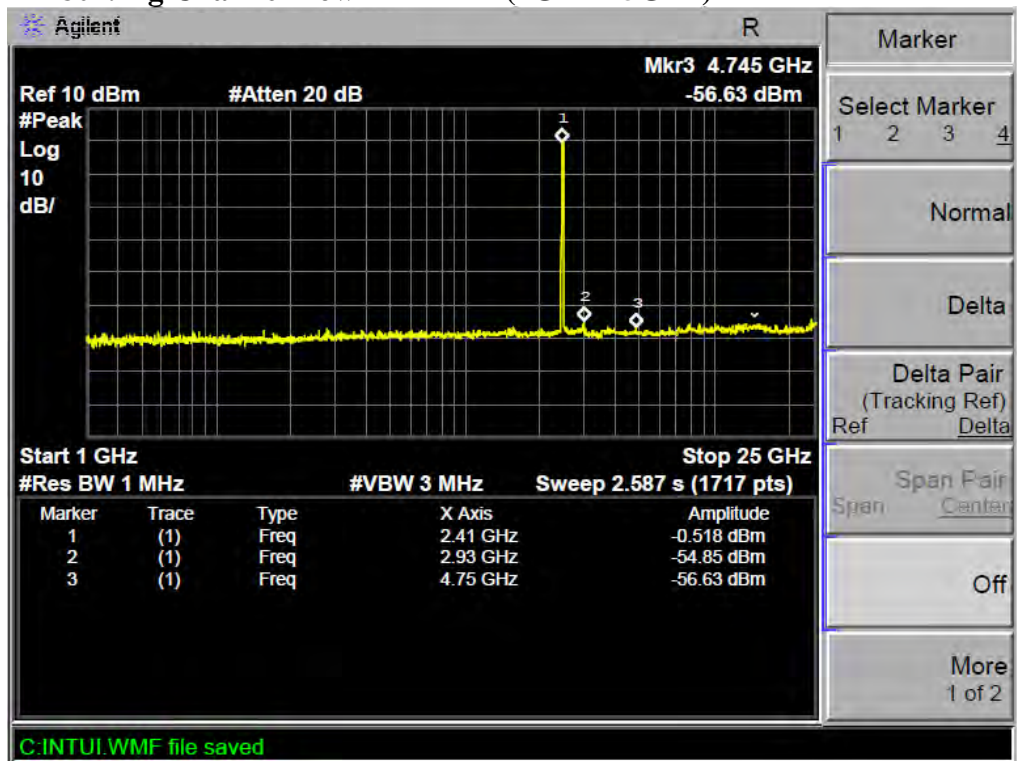
### TX 802.11b Channel High 2462MHz (1GHz-25GHz)



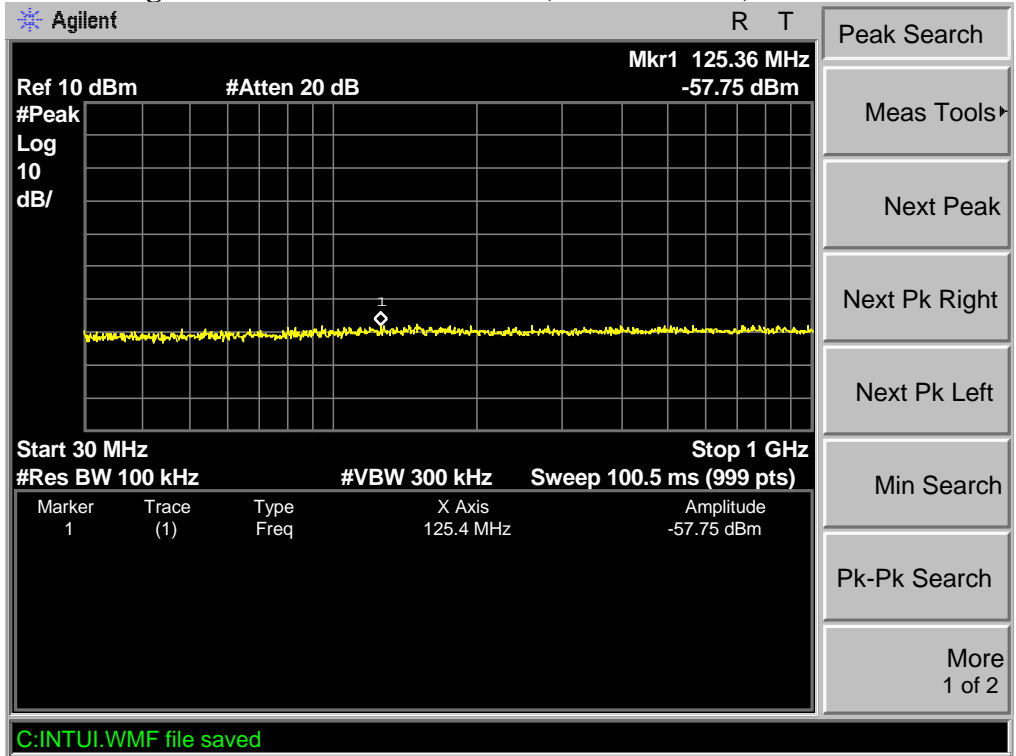
### TX 802.11g Channel Low 2412MHz (30MHz-1GHz)



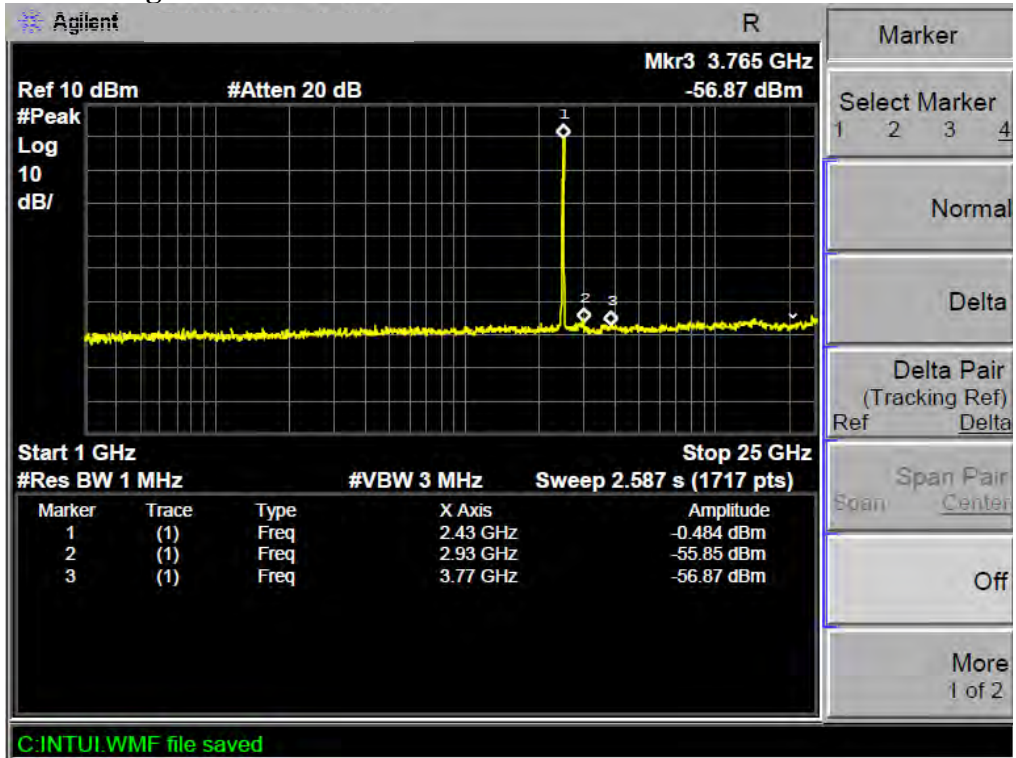
### TX 802.11g Channel Low 2412MHz (1GHz-25GHz)



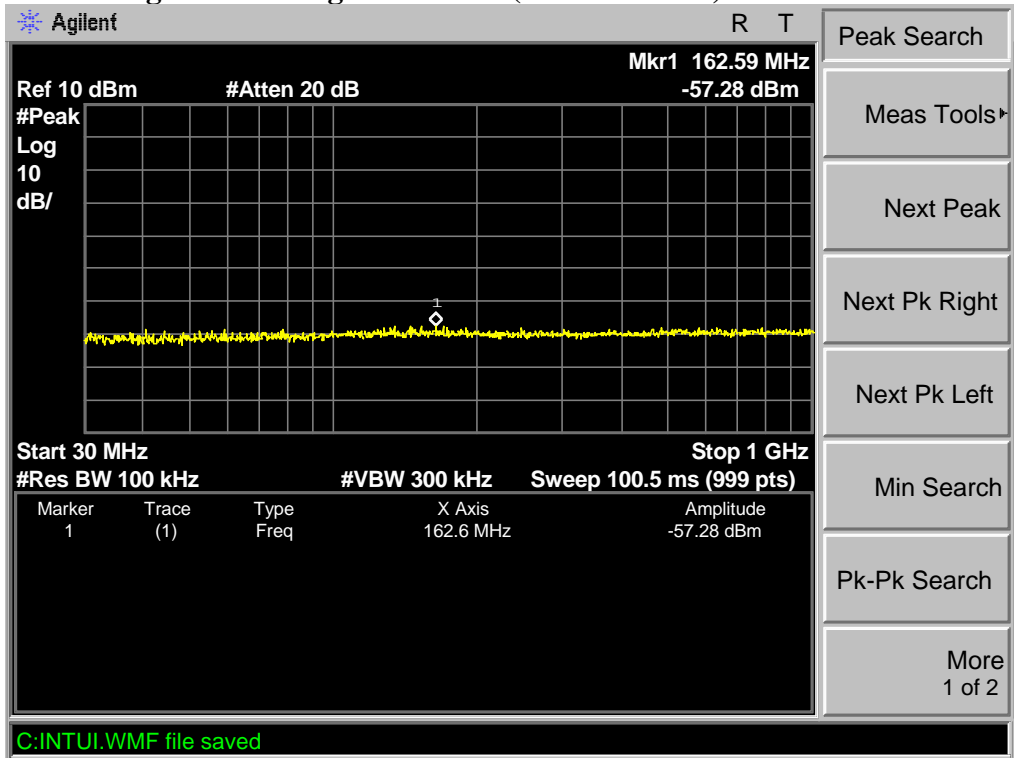
### TX 802.11g Channel Middle 2437MHz (30MHz-1GHz)



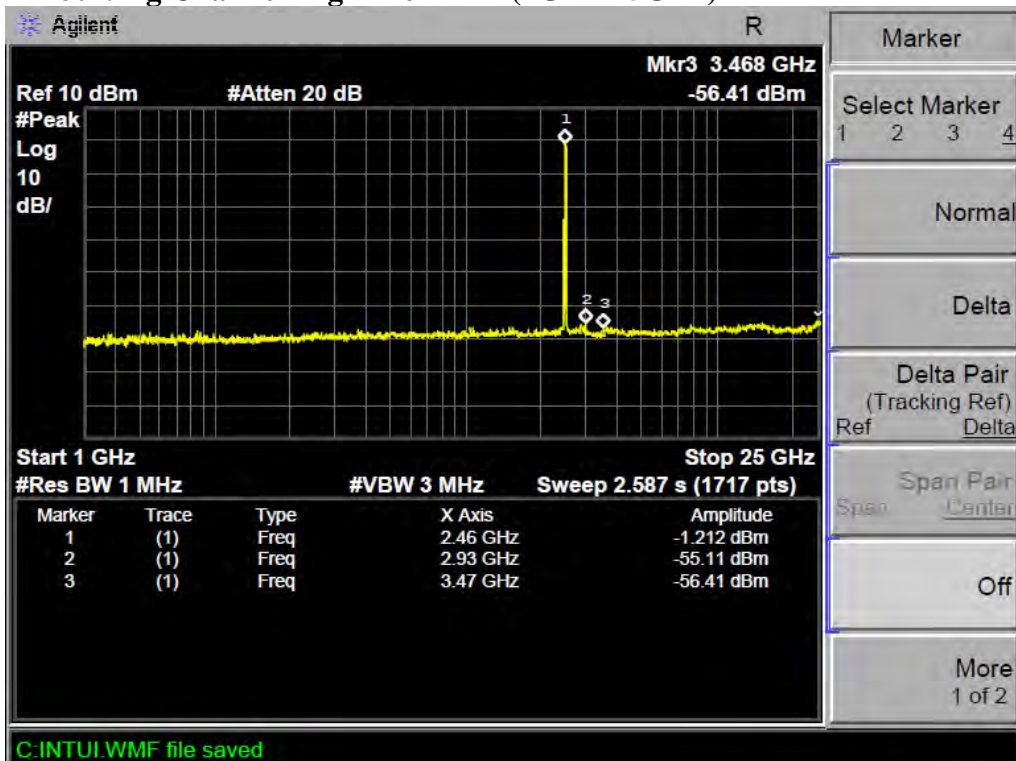
### TX 802.11g Channel Middle 2437MHz



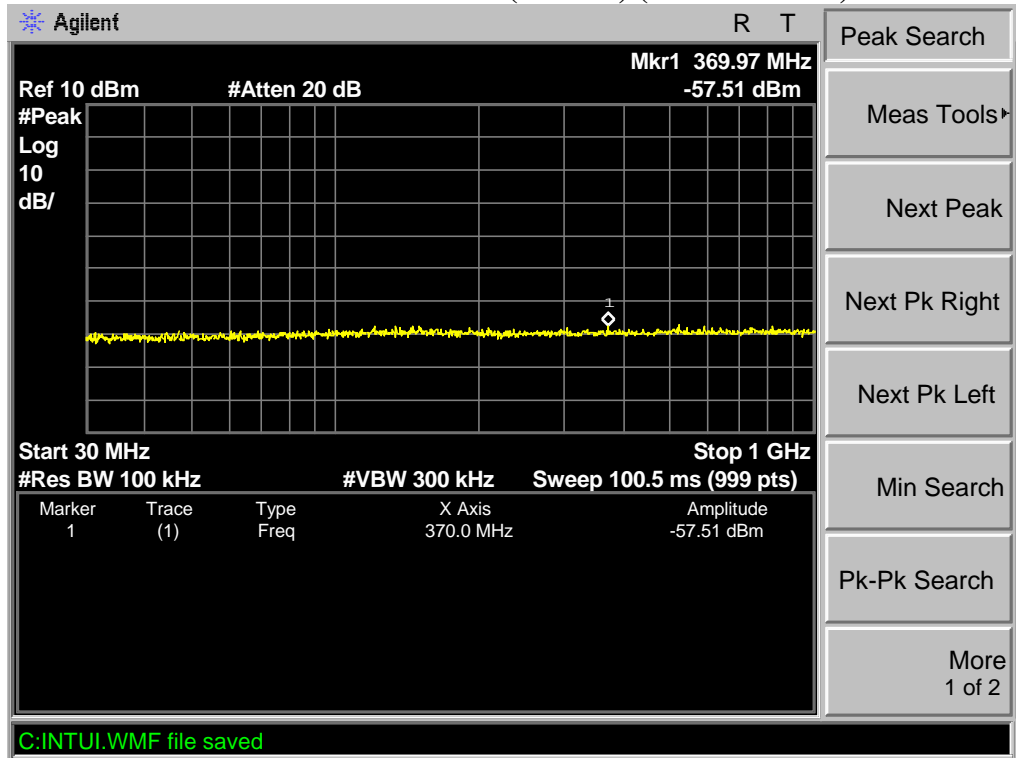
### TX 802.11g Channel High 2462MHz (30MHz-1GHz)



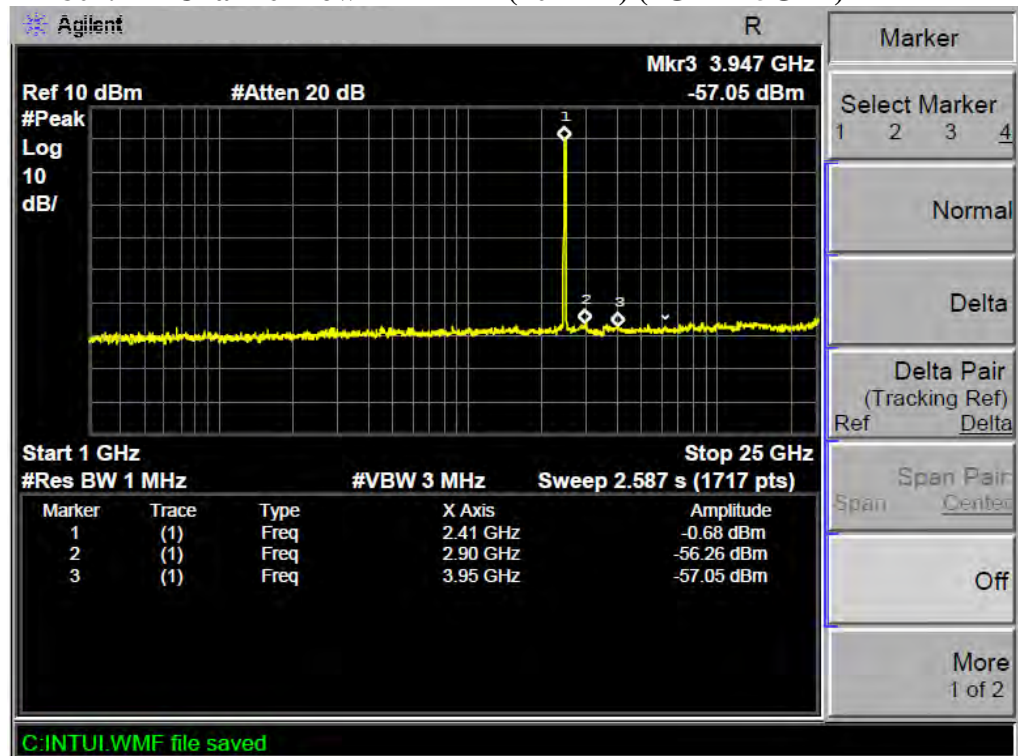
### TX 802.11g Channel High 2462MHz (1GHz-25GHz)



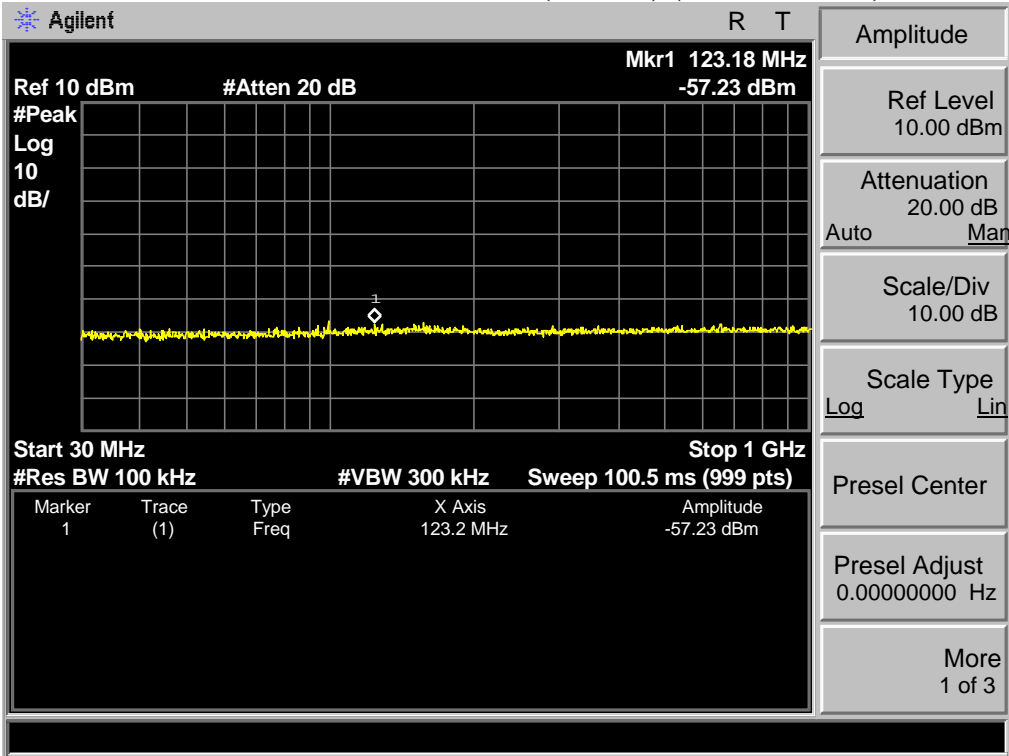
**TX 802.11n Channel Low 2412MHz (20MHz) (30MHz-1GHz)**



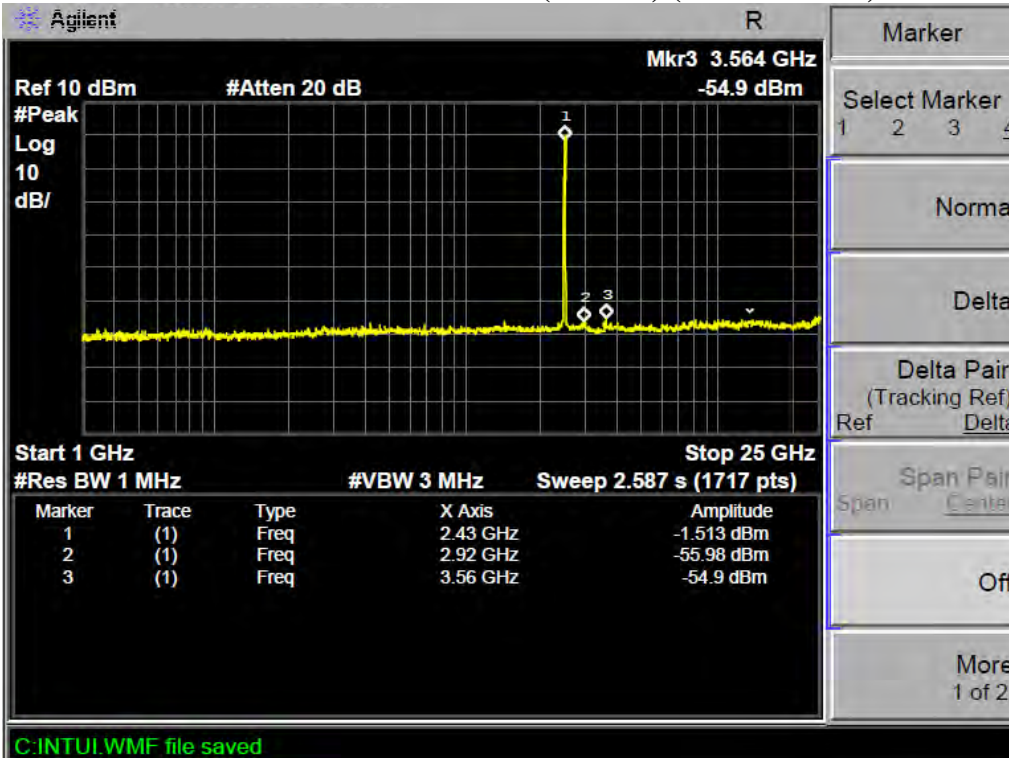
**TX 802.11n Channel Low 2412MHz (20MHz) (1GHz-25GHz)**



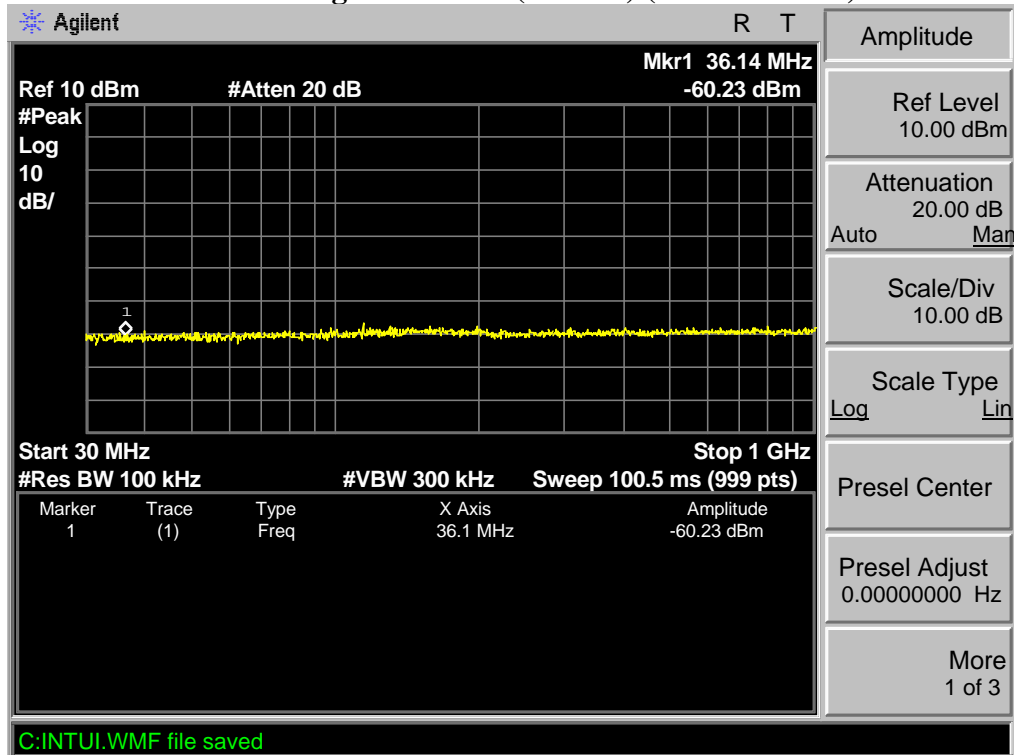
**TX 802.11n Channel Middle 2437MHz (20MHz) (30MHz-1GHz)**



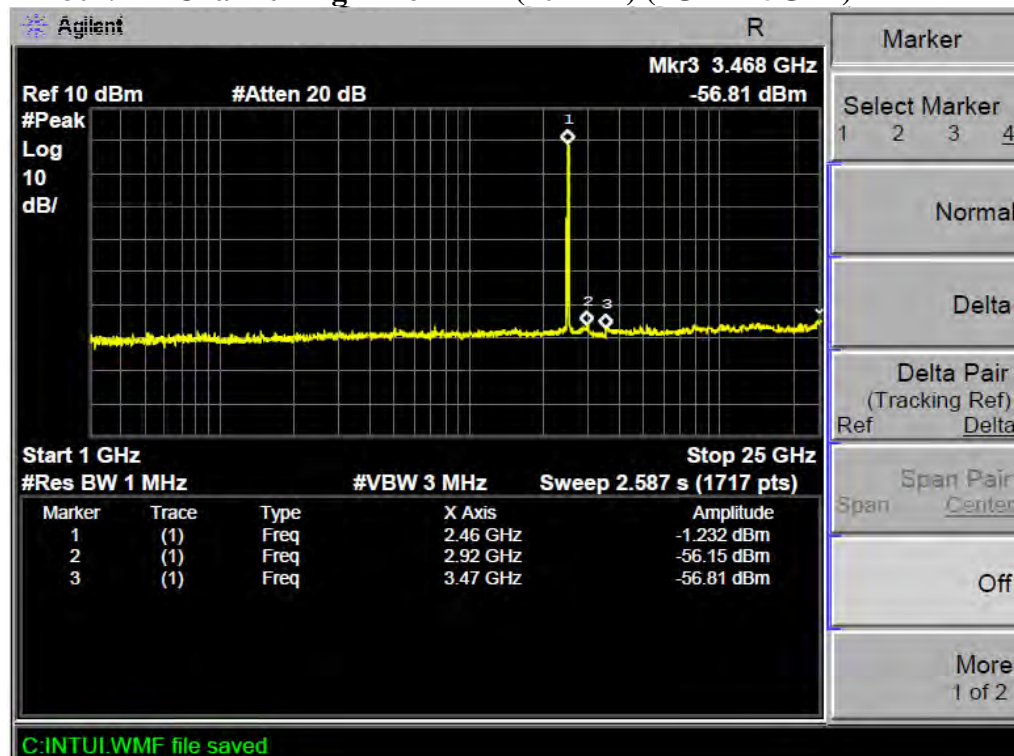
**TX 802.11n Channel Middle 2437MHz (20MHz) (1GHz-25GHz)**



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

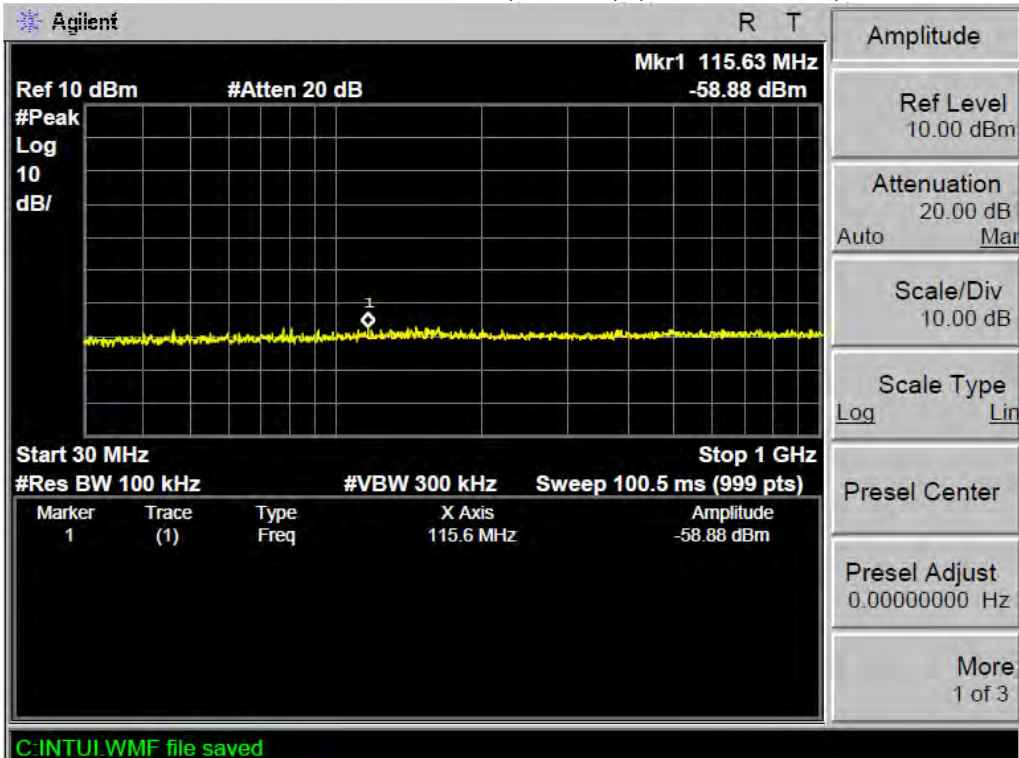


**TX 802.11n Channel High 2462MHz (20MHz) (1GHz-25GHz)**

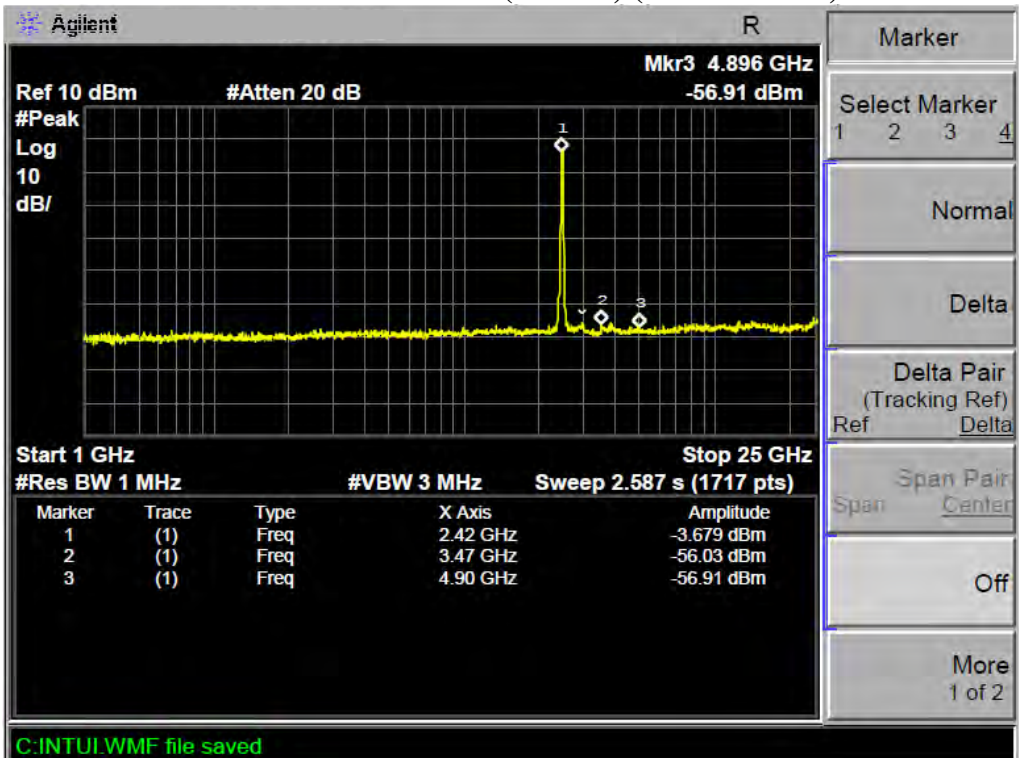




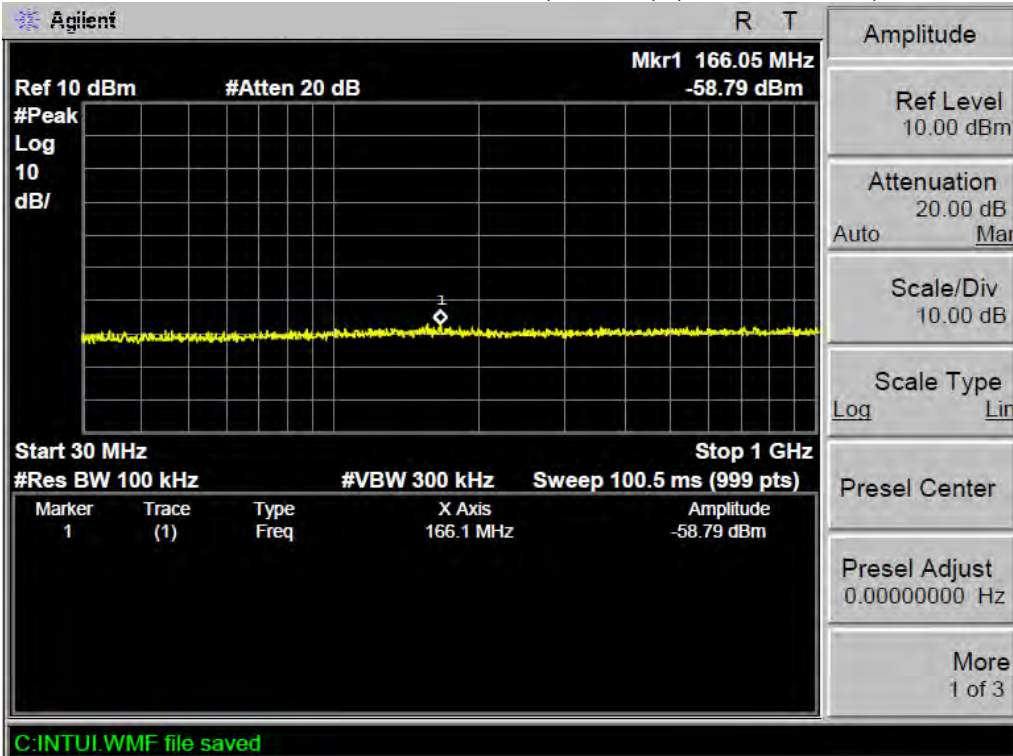
**TX 802.11n Channel Low 2422MHz (40MHz) (30MHz-1GHz)**



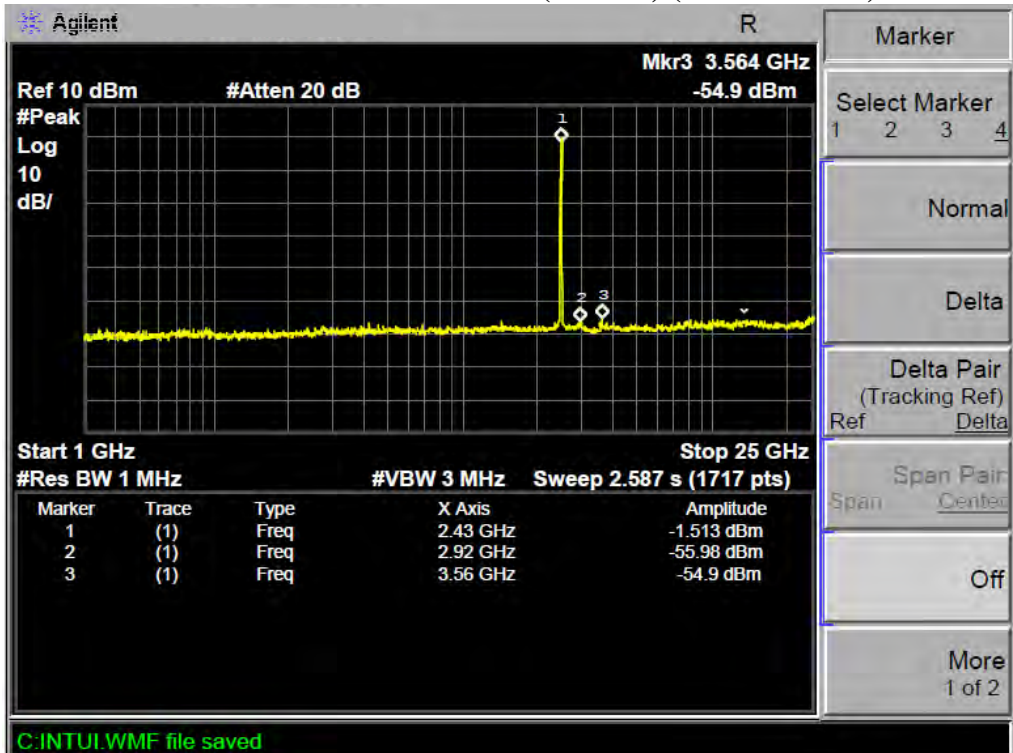
**TX 802.11n Channel Low 2422MHz (40MHz) (1GHz-25GHz)**



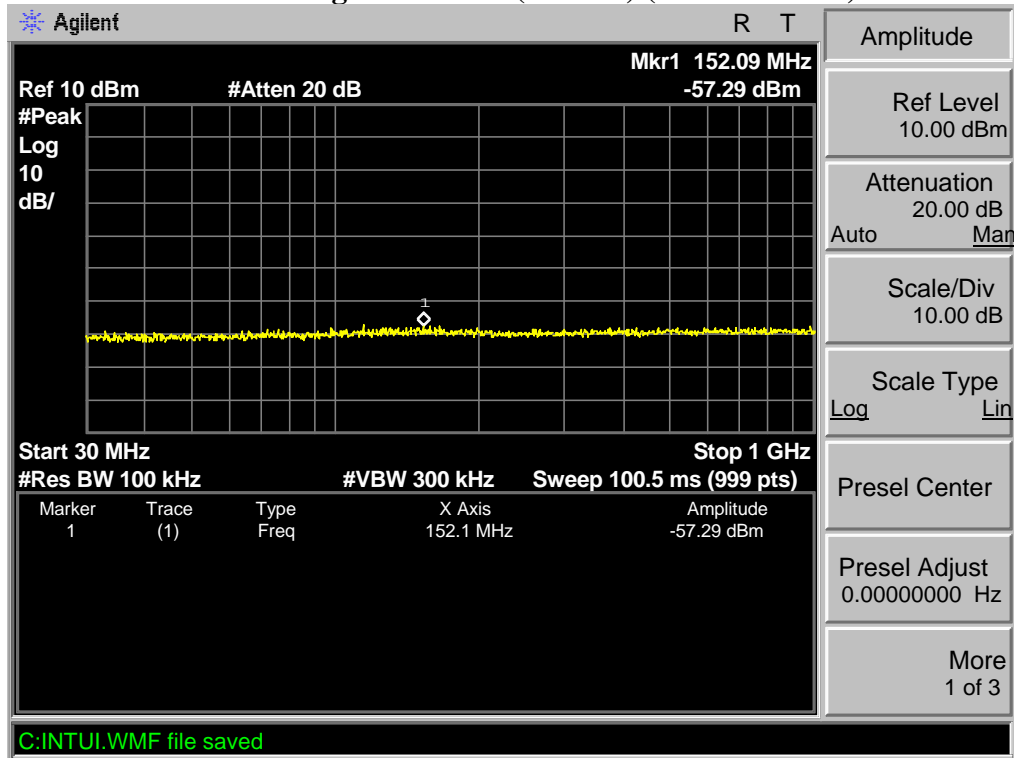
**TX 802.11n Channel Middle 2437MHz (40MHz) (30MHz-1GHz)**



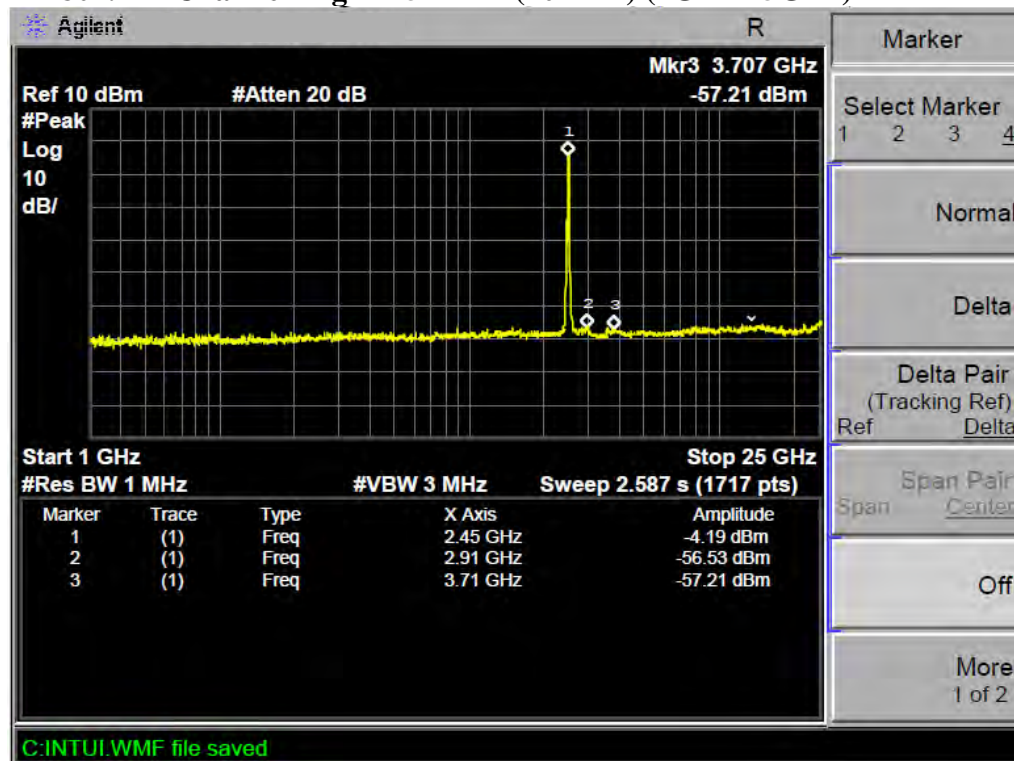
**TX 802.11n Channel Middle 2437MHz (40MHz) (1GHz-25GHz)**



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



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

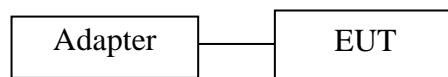


# 11.AC POWER LINE CONDUCTED EMISSION FOR FCC PART

## 15 SECTION 15.207(A)

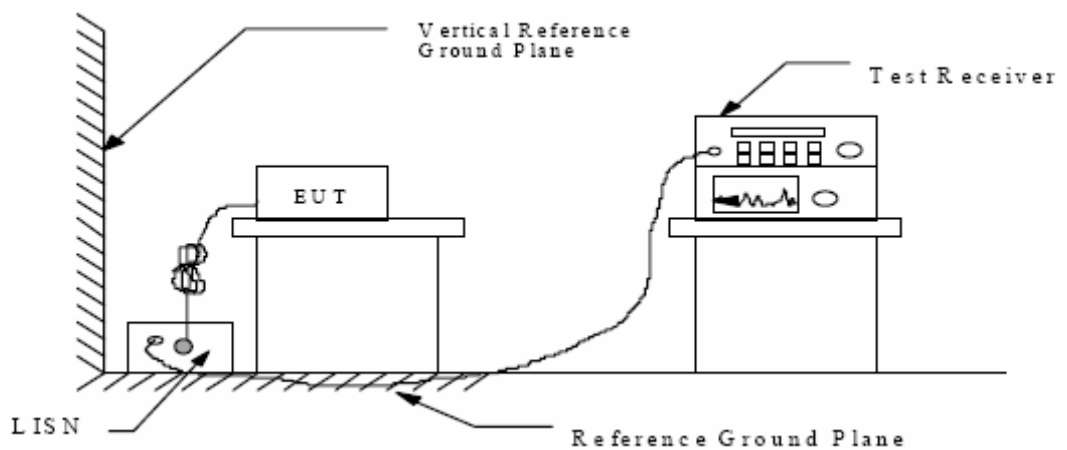
### 11.1.Block Diagram of Test Setup

11.1.1.Block diagram of connection between the EUT and simulators



(EUT: MID)

### 11.1.2.Shielding Room Test Setup Diagram



(EUT: MID)

### 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. MID (EUT)

Model Number : VX-S7001  
Serial Number : N/A  
Manufacturer : Shenzhen Sungworld Electronics 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 (Charging) 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>January 30, 2013</u>	Temperature:	<u>25°C</u>
EUT:	<u>MID</u>	Humidity:	<u>50%</u>
Model No.:	<u>VX-S7001</u>	Power Supply:	<u>AC 120V/60Hz</u>
Test Mode:	<u>Charging</u>	Test Engineer:	<u>Pei</u>

Frequency (MHz)	Result (dB $\mu$ V)	Limit (dB $\mu$ V)	Margin (dB)	Detector	Line
0.305276	48.70	60	-11.4	QP	Neutral
0.318980	48.70	60	-11.0	QP	
0.359562	49.60	59	-9.1	QP	
0.312676	37.80	50	-12.1	AV	
0.356703	38.50	49	-10.3	AV	
4.992190	34.40	46	-11.6	AV	
0.362445	49.70	59	-9.0	QP	Live
0.519130	47.30	56	-8.7	QP	
0.628773	47.20	56	-8.8	QP	
0.362445	40.30	49	-8.4	AV	
0.512950	35.00	46	-11.0	AV	
4.952491	38.50	46	-7.5	AV	

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

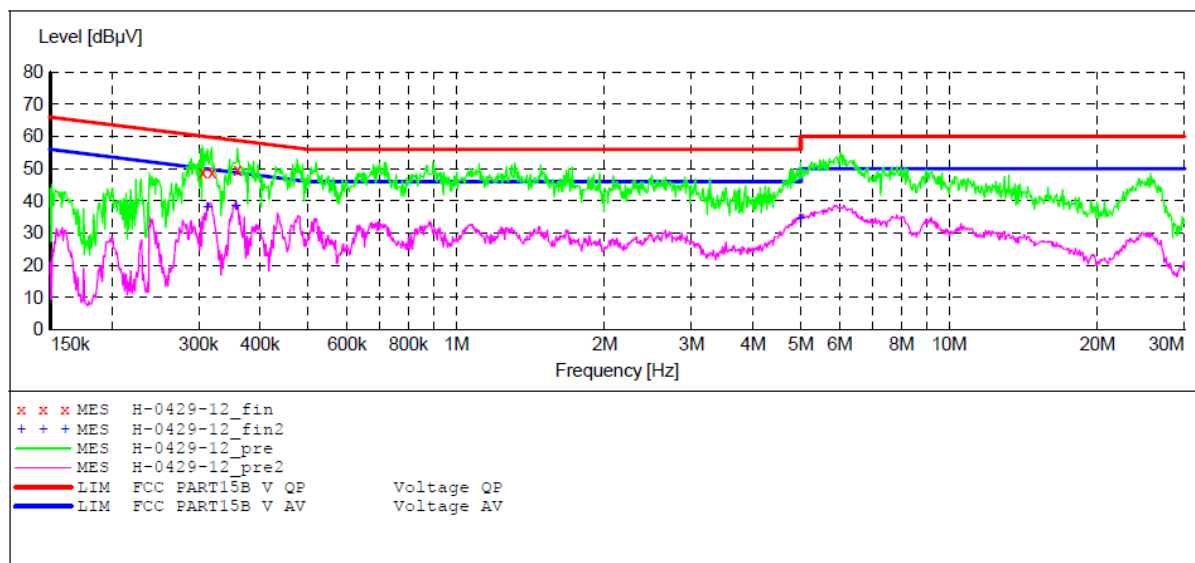
**ACCURATE TECHNOLOGY CO.,LTD**

**CONDUCTED EMISSION STANDARD FCC PART15B**

EUT: MID M/N:VX-S7001  
 Manufacturer: Sungworld  
 Operating Condition: Charging  
 Test Site: 1#Shielding Room  
 Operator: Bob  
 Test Specification: N AC120V/60Hz  
 Comment: Report NO.:ATE20130172  
 Start of Test: 1/30/2013 / 2:17:47PM

**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 0.8 % QuasiPeak 1.0 s 9 kHz NSLK8126 2008  
 Average



**MEASUREMENT RESULT: "H-0429-12\_fin"**

1/30/2013 2:19PM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.305276	48.70	11.6	60	11.4	QP	N	GND
0.318980	48.70	11.6	60	11.0	QP	N	GND
0.359562	49.60	11.7	59	9.1	QP	N	GND

**MEASUREMENT RESULT: "H-0429-12\_fin2"**

1/30/2013 2:19PM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.312676	37.80	11.6	50	12.1	AV	N	GND
0.356703	38.50	11.7	49	10.3	AV	N	GND
4.992190	34.40	11.4	46	11.6	AV	N	GND

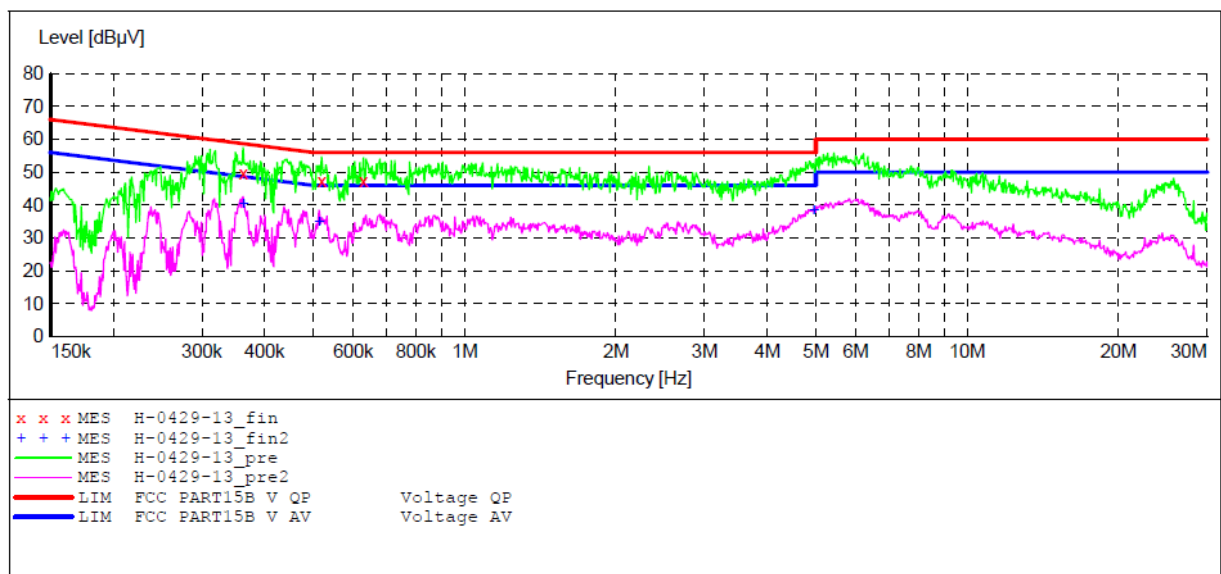
**ACCURATE TECHNOLOGY CO.,LTD**

**CONDUCTED EMISSION STANDARD FCC PART15B**

EUT: MID M/N:VX-S7001  
 Manufacturer: Sungworld  
 Operating Condition: Charging  
 Test Site: 1#Shielding Room  
 Operator: Bob  
 Test Specification: L AC120V/60Hz  
 Comment: Report NO.:ATE20130172  
 Start of Test: 1/30/2013 / 2:20:16PM

**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 0.8 % QuasiPeak 1.0 s 9 kHz NSLK8126 2008  
 Average



**MEASUREMENT RESULT: "H-0429-13\_fin"**

1/30/2013 2:22PM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.362445	49.70	11.7	59	9.0	QP	L1	GND
0.519130	47.30	12.0	56	8.7	QP	L1	GND
0.628773	47.20	11.9	56	8.8	QP	L1	GND

**MEASUREMENT RESULT: "H-0429-13\_fin2"**

1/30/2013 2:22PM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.362445	40.30	11.7	49	8.4	AV	L1	GND
0.512950	35.00	12.0	46	11.0	AV	L1	GND
4.952491	38.50	11.4	46	7.5	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