

**Produkte**  
 Products



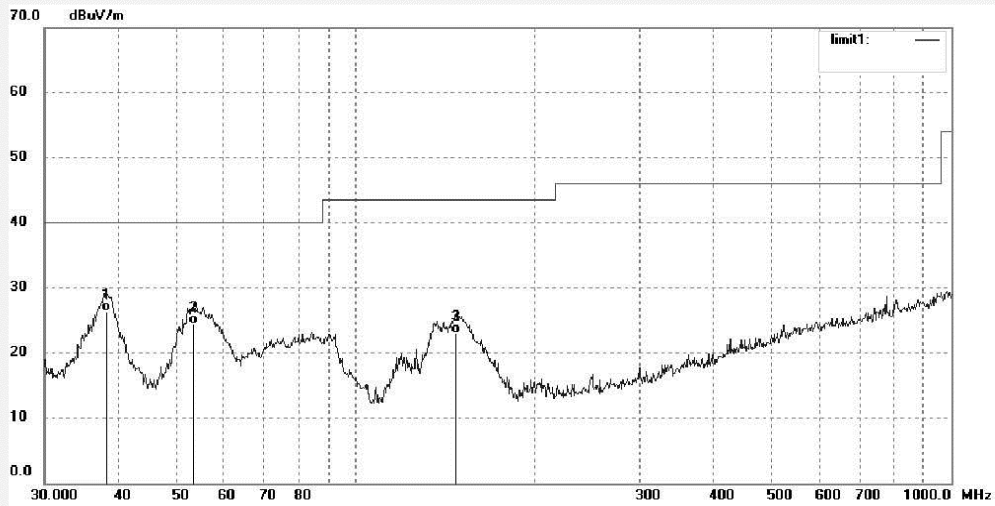
**ACCURATE TECHNOLOGY CO., LTD.**

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.: lenovo #769	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 15/04/21/
Temp.( C)/Hum.(%) 23 C / 48 %	Time:
EUT: ThinkPad Stack Wireless Access Point	Engineer Signature:
Mode: TX 2452MHz	Distance: 3m
Model: R123	
Manufacturer: Lenovo	

Note: 802.11n HT40



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	38.2120	37.47	-11.14	26.33	40.00	-13.67	QP			
2	53.5052	37.35	-12.87	24.48	40.00	-15.52	QP			
3	147.4036	38.16	-15.20	22.96	43.50	-20.54	QP			

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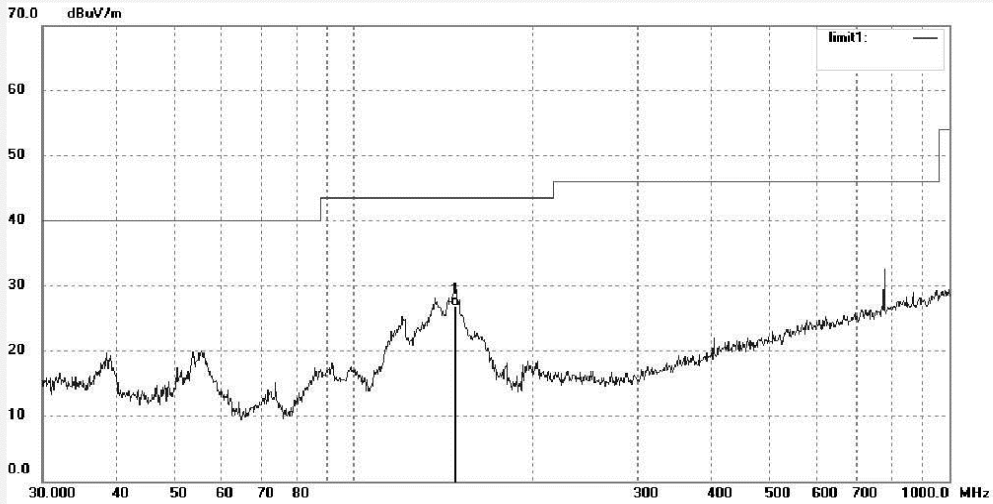
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Site: 2# Chamber  
 Tel:+86-0755-26503290  
 Fax:+86-0755-26503396

Job No.: lenovo #770	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 15/04/21/
Temp.( C)/Hum.(%) 23 C / 48 %	Time:
EUT: ThinkPad Stack Wireless Access Point	Engineer Signature:
Mode: TX 2452MHz	Distance: 3m
Model: R123	
Manufacturer: Lenovo	

Note: 802.11n HT40



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	147.9214	42.07	-15.19	26.88	43.50	-16.62	QP			

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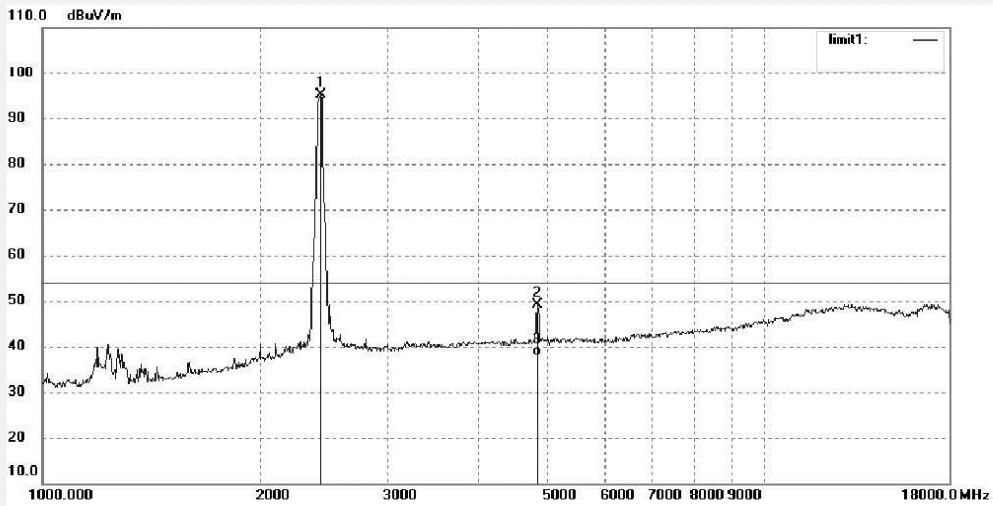


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Site: 2# Chamber  
 Tel:+86-0755-26503290  
 Fax:+86-0755-26503396

Job No.: lenovo #257	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 2015/02/08
Temp.( C)/Hum.(%) 23 C / 48 %	Time:
EUT: ThinkPad Stack Wireless Access Point	Engineer Signature:
Mode: TX 2422MHz	Distance: 3m
Model: R123	
Manufacturer: Lenovo	
Note: 802.11n HT40	



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2422.000	102.53	-7.40	95.13	/	/	peak			
2	4844.228	49.16	-0.08	49.08	74.00	-24.92	peak			
3	4844.228	38.01	-0.08	37.93	54.00	-16.07	AVG			

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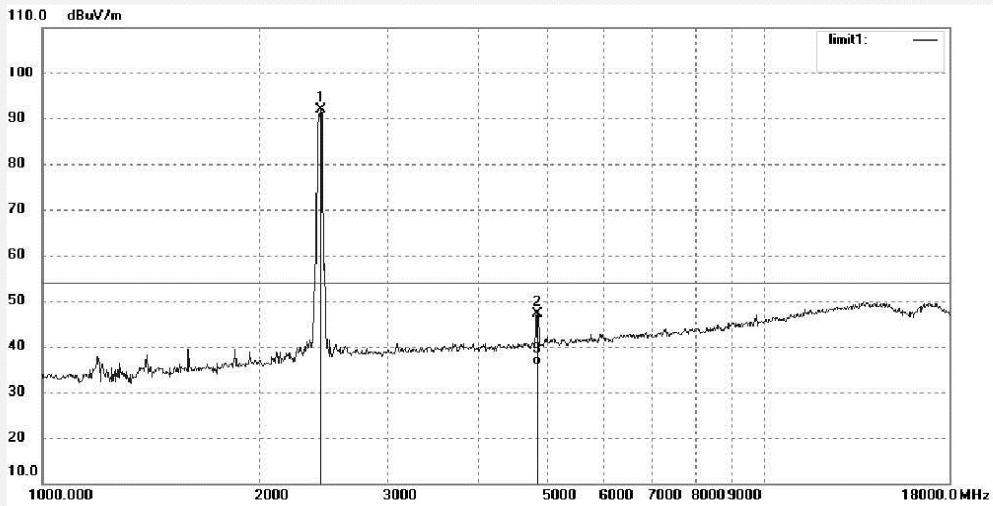
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 Science & Industry Park,Nanshan Shenzhen,P.R.China

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

Job No.: lenovo #258	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 2015/02/08
Temp.( C)/Hum.(%) 23 C / 48 %	Time:
EUT: ThinkPad Stack Wireless Access Point	Engineer Signature:
Mode: TX 2422MHz	Distance: 3m
Model: R123	
Manufacturer: Lenovo	

Note: 802.11n HT40



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2422.000	99.33	-7.40	91.93	/	/	peak			
2	4844.276	47.32	-0.08	47.24	74.00	-26.76	peak			
3	4844.276	36.08	-0.08	36.00	54.00	-18.00	AVG			



**Produkte**  
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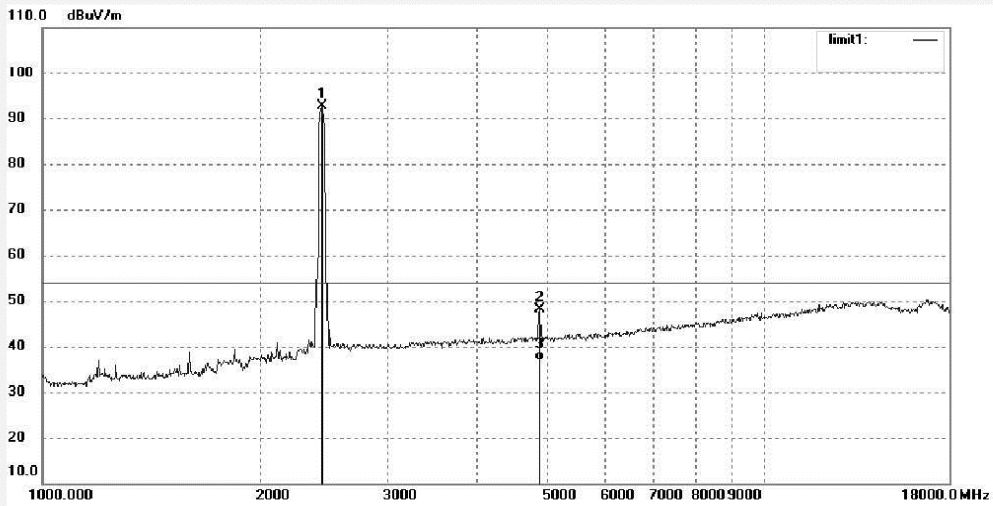


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 Science & Industry Park,Nanshan Shenzhen,P.R.China

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

Job No.: lenovo #259	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 2015/02/08
Temp.( C)/Hum.(%) 23 C / 48 %	Time:
EUT: ThinkPad Stack Wireless Access Point	Engineer Signature:
Mode: TX 2437MHz	Distance: 3m
Model: R123	
Manufacturer: Lenovo	
Note: 802.11n HT40	



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2437.000	99.95	-7.36	92.59	/	/	peak			
2	4874.313	48.13	0.09	48.22	74.00	-25.78	peak			
3	4874.313	36.87	0.09	36.96	54.00	-17.04	AVG			

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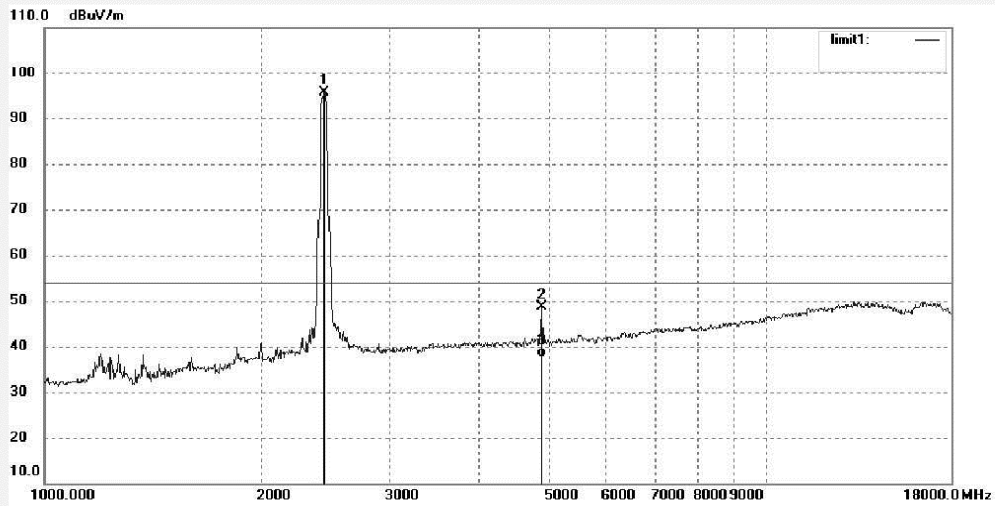
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F1,Bldg,A,Changyuan New Material Port Keyuan Rd,  
 Science & Industry Park,Nanshan Shenzhen,P.R.China

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

Job No.: lenovo #260	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 2015/02/08
Temp.( C)/Hum.(%) 23 C / 48 %	Time:
EUT: ThinkPad Stack Wireless Access Point	Engineer Signature:
Mode: TX 2437MHz	Distance: 3m
Model: R123	
Manufacturer: Lenovo	

Note: 802.11n HT40



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2437.000	102.94	-7.36	95.58	/	/	peak			
2	4874.322	48.53	0.09	48.62	74.00	-25.38	peak			
3	4874.322	37.43	0.09	37.52	54.00	-16.48	AVG			

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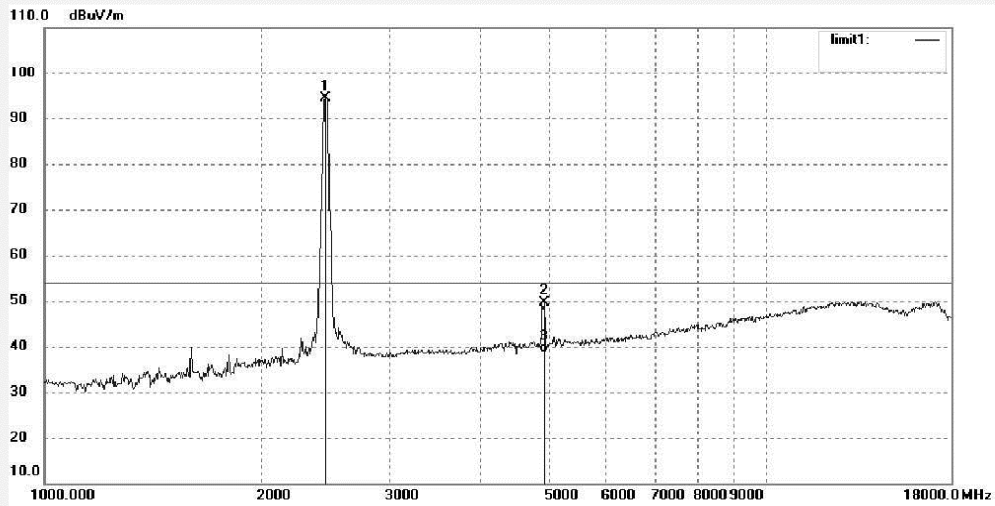
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 Science & Industry Park,Nanshan Shenzhen,P.R.China

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

Job No.: lenovo #261	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 2015/02/08
Temp.( C)/Hum.(%) 23 C / 48 %	Time:
EUT: ThinkPad Stack Wireless Access Point	Engineer Signature:
Mode: TX 2452MHz	Distance: 3m
Model: R123	
Manufacturer: Lenovo	

Note: 802.11n HT40



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2452.000	101.77	-7.33	94.44	/	/	peak			
2	4904.319	49.45	0.25	49.70	74.00	-24.30	peak			
3	4904.319	38.27	0.25	38.52	54.00	-15.48	AVG			

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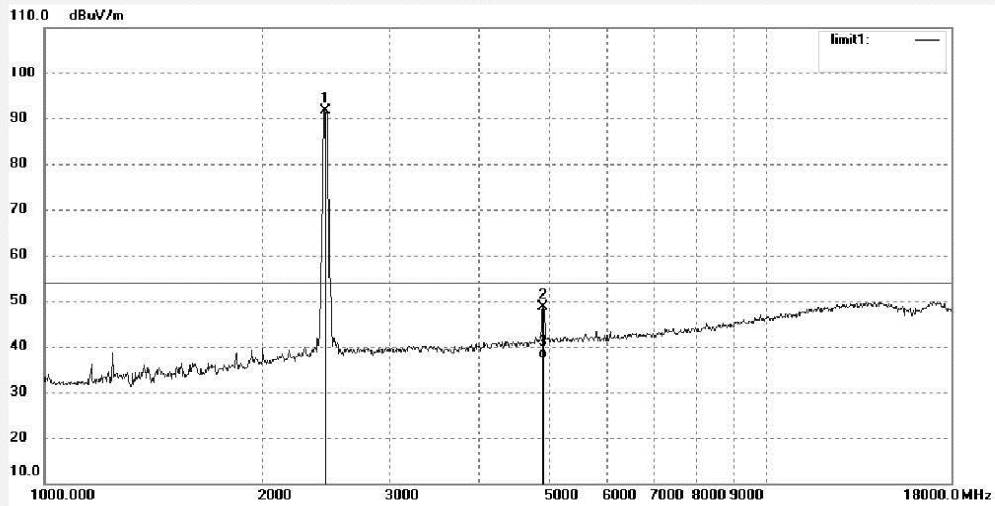
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 Science & Industry Park,Nanshan Shenzhen,P.R.China

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

Job No.: lenovo #262	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 2015/02/08
Temp.( C)/Hum.(%) 23 C / 48 %	Time:
EUT: ThinkPad Stack Wireless Access Point	Engineer Signature:
Mode: TX 2452MHz	Distance: 3m
Model: R123	
Manufacturer: Lenovo	

Note: 802.11n HT40



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2452.000	98.86	-7.33	91.53	/	/	peak			
2	4904.303	48.30	0.25	48.55	74.00	-25.45	peak			
3	4904.303	37.21	0.25	37.46	54.00	-16.54	AVG			



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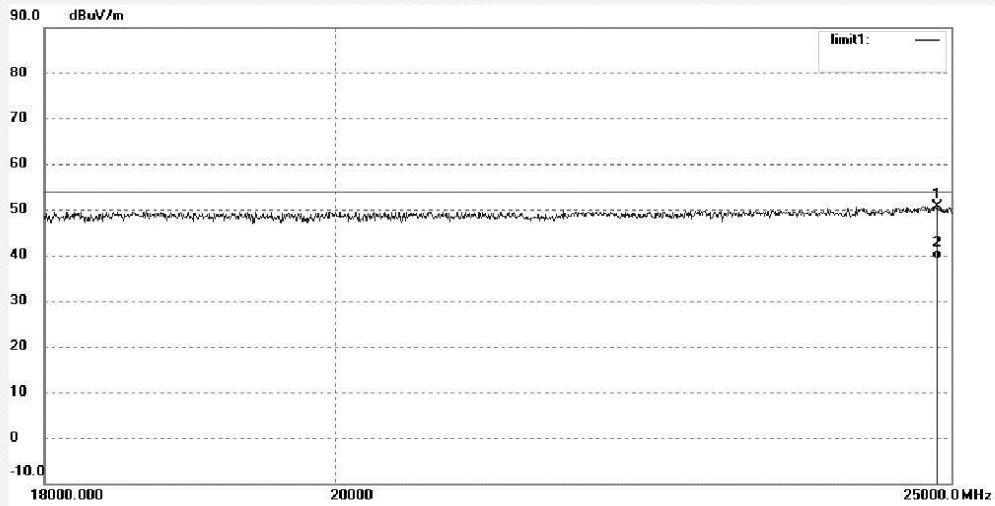
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 Science & Industry Park,Nanshan Shenzhen,P.R.China

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

Job No.: lenovo #998	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 15/04/28/
Temp.( C)/Hum.(%) 23 C / 48 %	Time:
EUT: ThinkPad Stack Wireless Access Point	Engineer Signature:
Mode: TX 2422MHz	Distance: 3m
Model: R123	
Manufacturer: Lenovo	

Note: 802.11n HT40



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	24876.868	34.10	16.58	50.68	74.00	-23.32	peak			
2	24876.868	22.45	16.58	39.03	54.00	-14.97	AVG			

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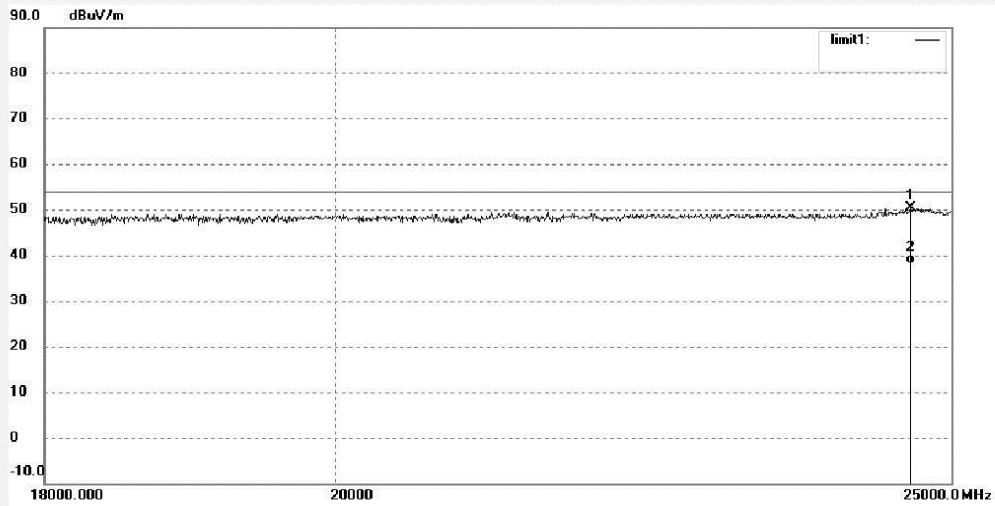
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 Science & Industry Park,Nanshan Shenzhen,P.R.China

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

Job No.: lenovo #999	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 15/04/28/
Temp.( C)/Hum.(%) 23 C / 48 %	Time:
EUT: ThinkPad Stack Wireless Access Point	Engineer Signature:
Mode: TX 2422MHz	Distance: 3m
Model: R123	
Manufacturer: Lenovo	

Note: 802.11n HT40



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	24632.421	33.60	16.74	50.34	74.00	-23.66	peak			
2	24632.421	21.43	16.74	38.17	54.00	-15.83	AVG			

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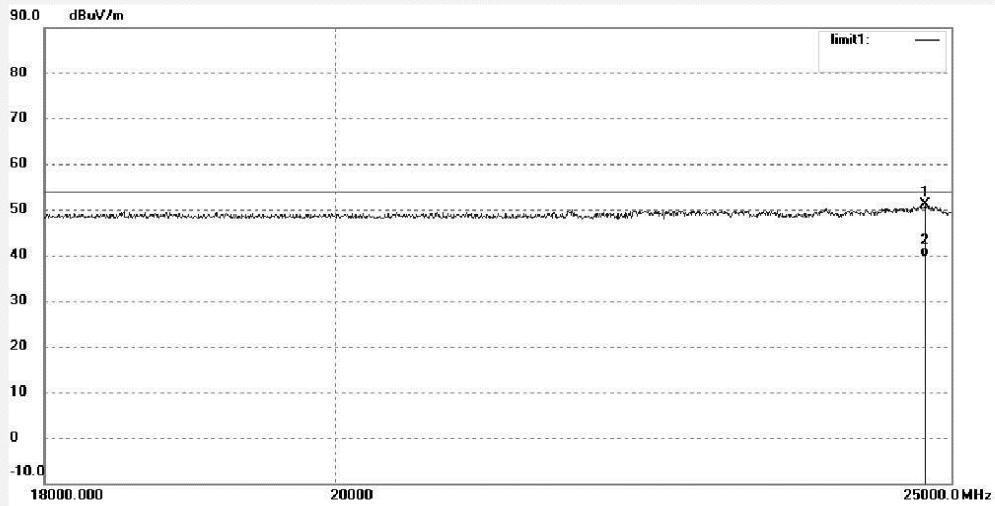
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 Science & Industry Park,Nanshan Shenzhen,P.R.China

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

Job No.: lenovo #1000	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 15/04/28/
Temp.( C)/Hum.(%) 23 C / 48 %	Time:
EUT: ThinkPad Stack Wireless Access Point	Engineer Signature:
Mode: TX 2437MHz	Distance: 3m
Model: R123	
Manufacturer: Lenovo	

Note: 802.11n HT40



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	24770.645	34.59	16.65	51.24	74.00	-22.76	peak			
2	24770.645	23.04	16.65	39.69	54.00	-14.31	AVG			

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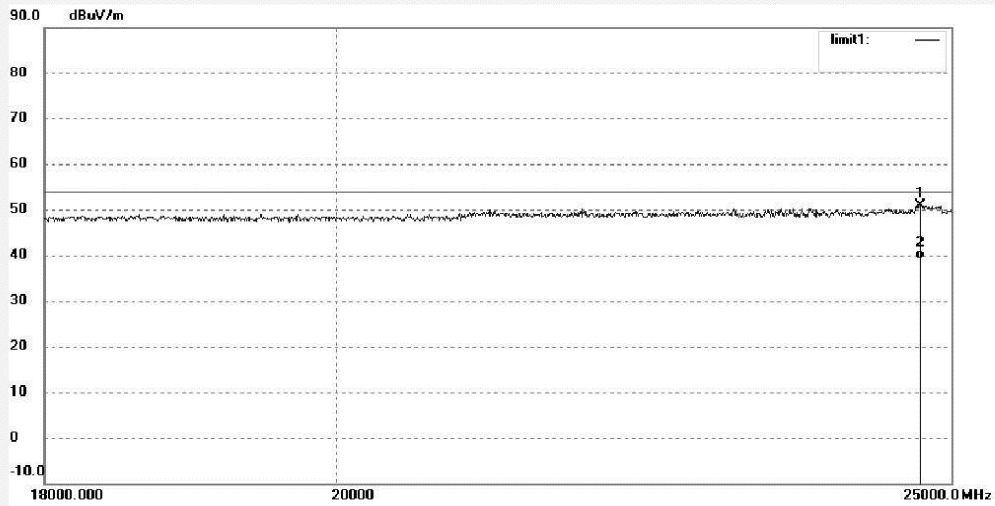


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 Science & Industry Park,Nanshan Shenzhen,P.R.China

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

Job No.: lenovo #1001	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 15/04/28/
Temp.( C)/Hum.(%) 23 C / 48 %	Time:
EUT: ThinkPad Stack Wireless Access Point	Engineer Signature:
Mode: TX 2437MHz	Distance: 3m
Model: R123	
Manufacturer: Lenovo	

Note: 802.11n HT40



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	24721.772	34.23	16.68	50.91	74.00	-23.09	peak			
2	24721.772	22.54	16.68	39.22	54.00	-14.78	AVG			



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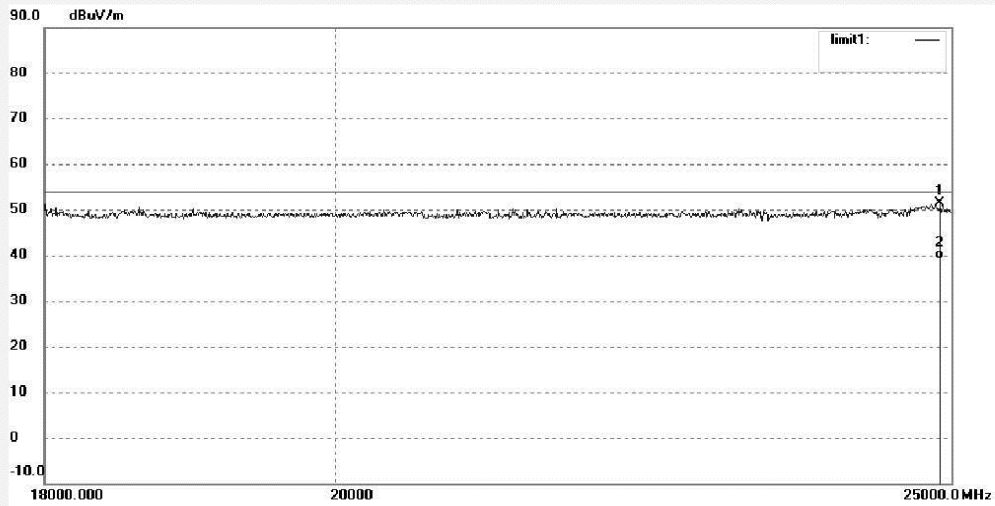
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Site: 2# Chamber  
 Tel:+86-0755-26503290  
 Fax:+86-0755-26503396

Job No.: lenovo #1002	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 15/04/28/
Temp.( C)/Hum.(%) 23 C / 48 %	Time:
EUT: ThinkPad Stack Wireless Access Point	Engineer Signature:
Mode: TX 2452MHz	Distance: 3m
Model: R123	
Manufacturer: Lenovo	

Note: 802.11n HT40



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	24901.446	34.70	16.56	51.26	74.00	-22.74	peak			
2	24901.446	22.65	16.56	39.21	54.00	-14.79	AVG			

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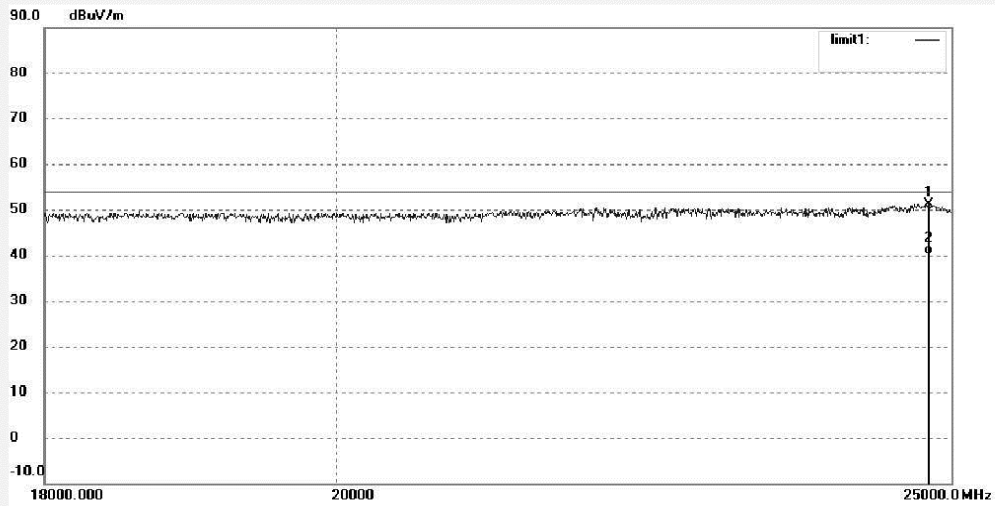
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 Science & Industry Park,Nanshan Shenzhen,P.R.China

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

Job No.: lenovo #1003	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 15/04/28/
Temp.( C)/Hum.(%) 23 C / 48 %	Time:
EUT: ThinkPad Stack Wireless Access Point	Engineer Signature:
Mode: TX 2452MHz	Distance: 3m
Model: R123	
Manufacturer: Lenovo	

Note: 802.11n HT40



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	24795.118	34.57	16.63	51.20	74.00	-22.80	peak			
2	24795.118	23.38	16.63	40.01	54.00	-13.99	AVG			

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**Appendix B.5: Radiated emission in restricted band, 802.11b\_1TX**



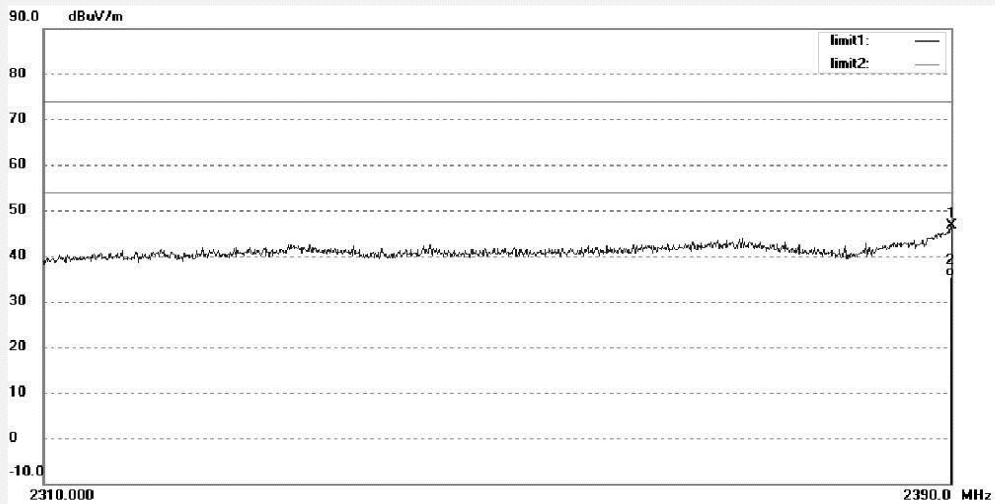
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Site: 2# Chamber  
 Tel:+86-0755-26503290  
 Fax:+86-0755-26503396

Job No.: lenovo #263	Polarization: Horizontal
Standard: FCC (Band Edge)	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 2015/02/08
Temp.( C)/Hum.(%) 23 C / 48 %	Time:
EUT: ThinkPad Stack Wireless Access Point	Engineer Signature:
Mode: TX 2412MHz	Distance: 3m
Model: R123	
Manufacturer: Lenovo	

Note: 802.11b



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	54.27	-7.53	46.74	74.00	-27.26	peak			
2	2390.000	42.87	-7.53	35.34	54.00	-18.66	AVG			

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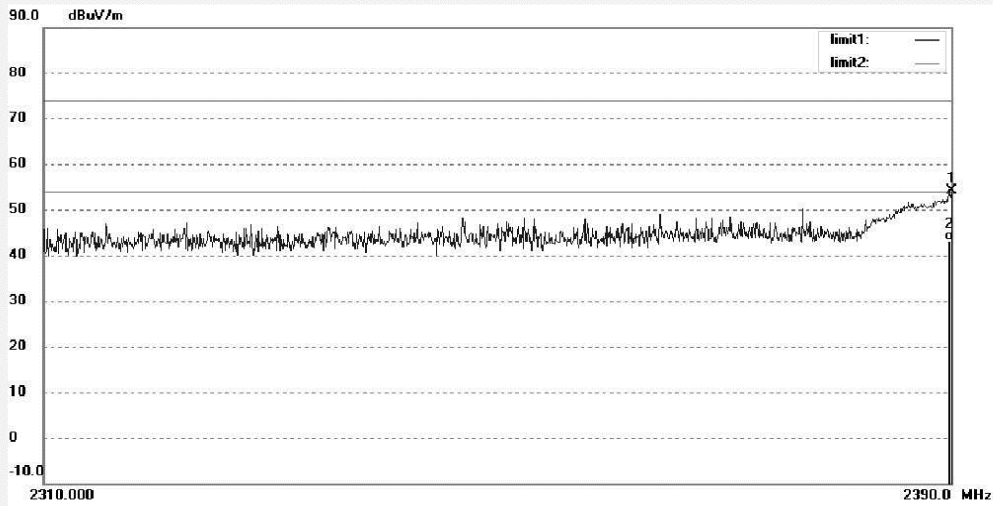
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 Science & Industry Park,Nanshan Shenzhen,P.R.China

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

Job No.: lenovo #264	Polarization: Vertical
Standard: FCC (Band Edge)	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 2015/02/08
Temp.( C)/Hum.(%) 23 C / 48 %	Time:
EUT: ThinkPad Stack Wireless Access Point	Engineer Signature:
Mode: TX 2412MHz	Distance: 3m
Model: R123	
Manufacturer: Lenovo	

Note: 802.11b



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	61.68	-7.53	54.15	74.00	-19.85	peak			
2	2390.000	50.54	-7.53	43.01	54.00	-10.99	AVG			



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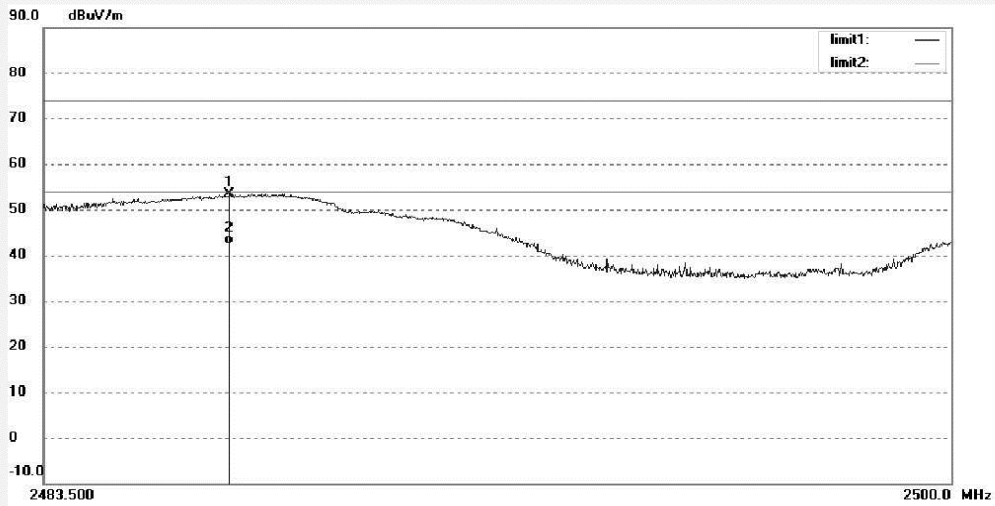
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F1,Bldg,A,Changyuan New Material Port Keyuan Rd,  
 Science & Industry Park,Nanshan Shenzhen,P.R.China

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

Job No.: lenovo #265	Polarization: Vertical
Standard: FCC (Band Edge)	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 2015/02/08
Temp.( C)/Hum.(%) 23 C / 48 %	Time:
EUT: ThinkPad Stack Wireless Access Point	Engineer Signature:
Mode: TX 2462MHz	Distance: 3m
Model: R123	
Manufacturer: Lenovo	

Note: 802.11b



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2486.883	60.79	-7.38	53.41	74.00	-20.59	peak			
2	2486.883	49.67	-7.38	42.29	54.00	-11.71	AVG			

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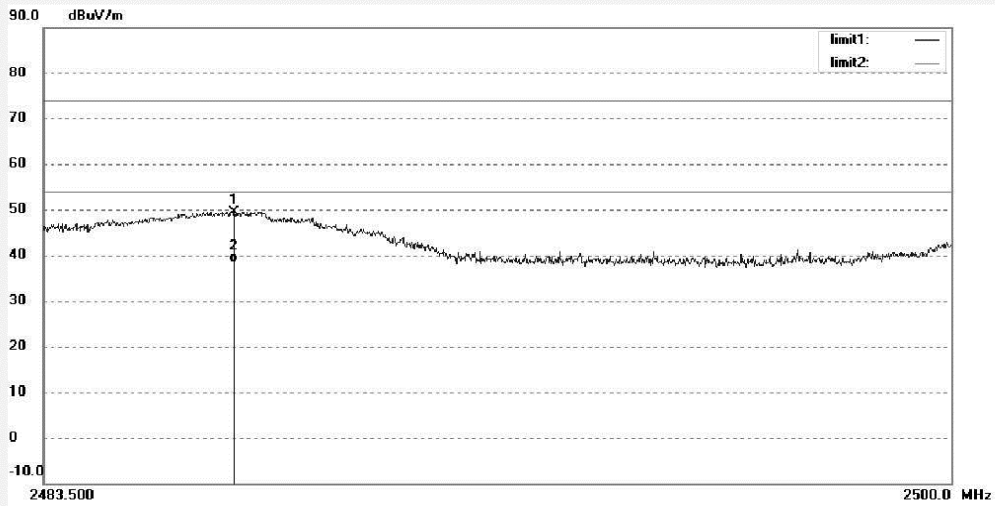
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 Science & Industry Park,Nanshan Shenzhen,P.R.China

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

Job No.: lenovo #266	Polarization: Horizontal
Standard: FCC (Band Edge)	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 2015/02/08
Temp.( C)/Hum.(%) 23 C / 48 %	Time:
EUT: ThinkPad Stack Wireless Access Point	Engineer Signature:
Mode: TX 2462MHz	Distance: 3m
Model: R123	
Manufacturer: Lenovo	

Note: 802.11b



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2486.965	56.88	-7.38	49.50	74.00	-24.50	peak			
2	2486.965	45.73	-7.38	38.35	54.00	-15.65	AVG			

**Produkte**  
 Products

**Appendix B.6: Radiated emission in restricted band, 802.11g\_1TX**



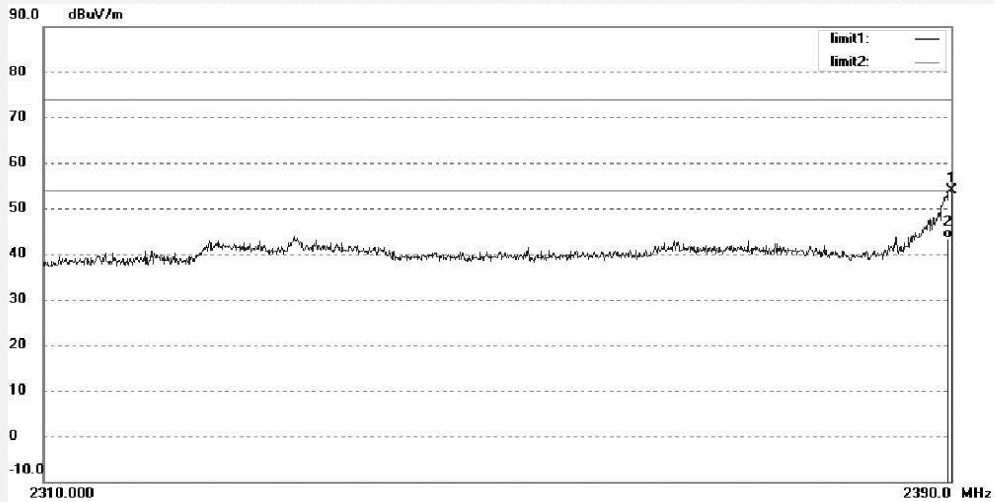
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Site: 2# Chamber  
 Tel:+86-0755-26503290  
 Fax:+86-0755-26503396

Job No.: lenovo #267	Polarization: Horizontal
Standard: FCC (Band Edge)	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 2015/02/08
Temp.( C)/Hum.(%) 23 C / 48 %	Time:
EUT: ThinkPad Stack Wireless Access Point	Engineer Signature:
Mode: TX 2412MHz	Distance: 3m
Model: R123	
Manufacturer: Lenovo	

Note: 802.11g



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	61.46	-7.53	53.93	74.00	-20.07	peak			
2	2390.000	50.95	-7.53	43.42	54.00	-10.58	AVG			

**Produkte**  
 Products



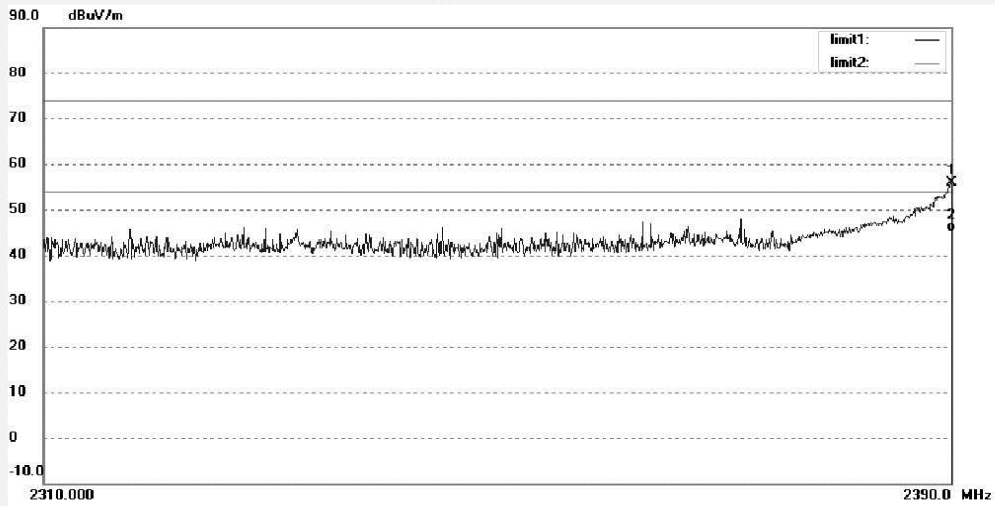
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Site: 2# Chamber  
 Tel:+86-0755-26503290  
 Fax:+86-0755-26503396

Job No.: lenovo #268	Polarization: Vertical
Standard: FCC (Band Edge)	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 2015/02/08
Temp.( C)/Hum.(%) 23 C / 48 %	Time:
EUT: ThinkPad Stack Wireless Access Point	Engineer Signature:
Mode: TX 2412MHz	Distance: 3m
Model: R123	
Manufacturer: Lenovo	

Note: 802.11g



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	63.36	-7.53	55.83	74.00	-18.17	peak			
2	2390.000	52.75	-7.53	45.22	54.00	-8.78	AVG			



**Produkte**  
 Products



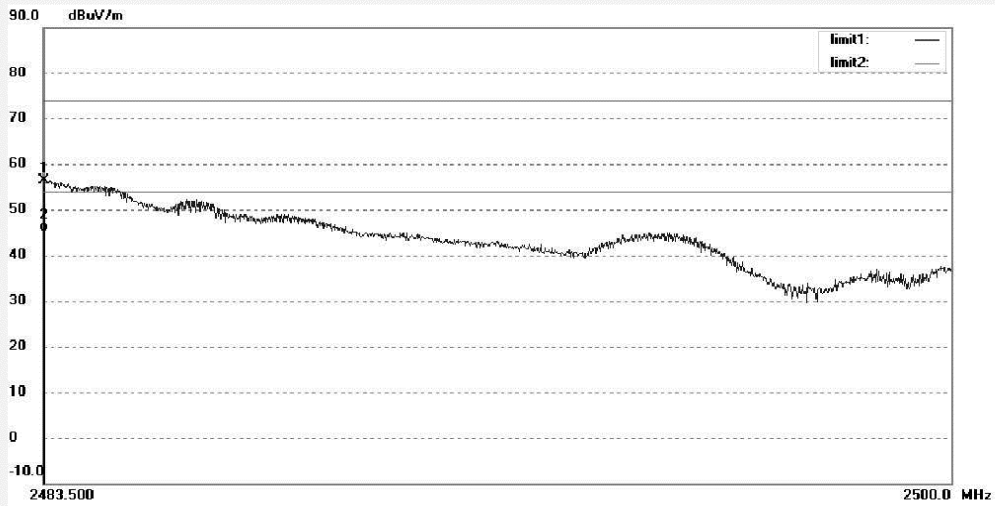
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Site: 2# Chamber  
 Tel:+86-0755-26503290  
 Fax:+86-0755-26503396

Job No.: lenovo #269	Polarization: Vertical
Standard: FCC (Band Edge)	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 2015/02/08
Temp.( C)/Hum.(%) 23 C / 48 %	Time:
EUT: ThinkPad Stack Wireless Access Point	Engineer Signature:
Mode: TX 2462MHz	Distance: 3m
Model: R123	
Manufacturer: Lenovo	

Note: 802.11g



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	63.70	-7.37	56.33	74.00	-17.67	peak			
2	2483.500	52.38	-7.37	45.01	54.00	-8.99	AVG			

**Produkte**  
 Products



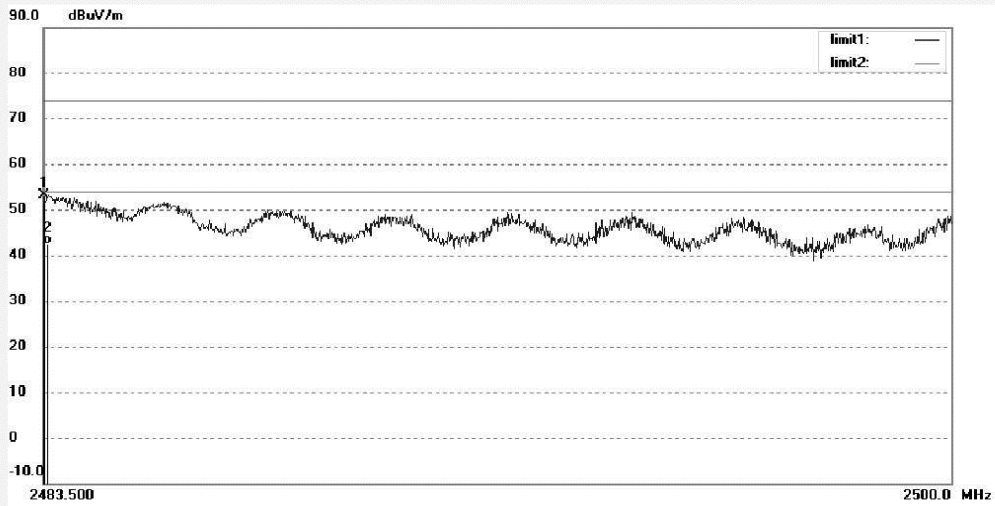
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Site: 2# Chamber  
 Tel:+86-0755-26503290  
 Fax:+86-0755-26503396

Job No.: lenovo #270	Polarization: Horizontal
Standard: FCC (Band Edge)	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 2015/02/08
Temp.( C)/Hum.(%) 23 C / 48 %	Time:
EUT: ThinkPad Stack Wireless Access Point	Engineer Signature:
Mode: TX 2462MHz	Distance: 3m
Model: R123	
Manufacturer: Lenovo	

Note: 802.11g



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	60.42	-7.37	53.05	74.00	-20.95	peak			
2	2483.500	49.79	-7.37	42.42	54.00	-11.58	AVG			

Produkte  
 Products

**Appendix B.7: Radiated emission in restrictd band, 802.11n HT20\_1TX**



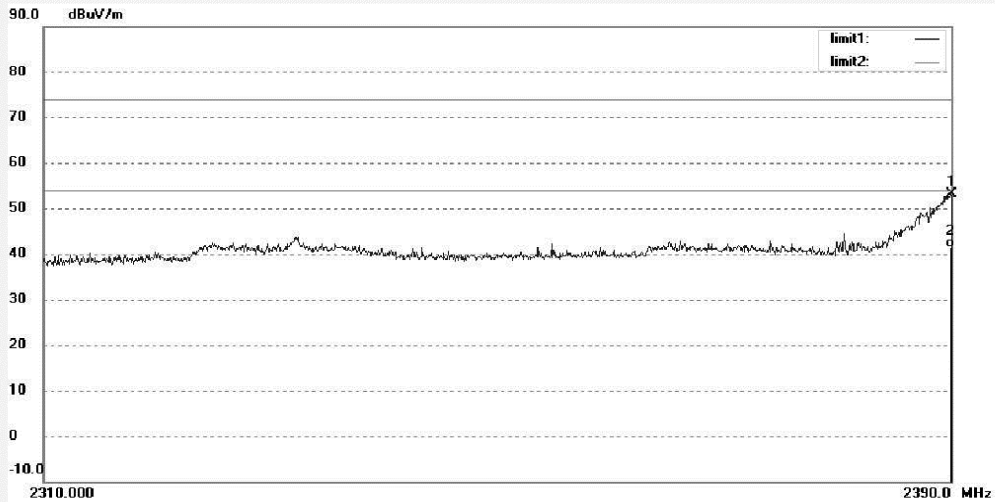
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 Fax:+86-0755-26503396

Job No.: lenovo #271	Polarization: Horizontal
Standard: FCC (Band Edge)	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 2015/02/08
Temp.( C)/Hum.(%) 23 C / 48 %	Time:
EUT: ThinkPad Stack Wireless Access Point	Engineer Signature:
Mode: TX 2412MHz	Distance: 3m
Model: R123	
Manufacturer: Lenovo	

Note: 802.11n HT20



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	60.60	-7.53	53.07	74.00	-20.93	peak			
2	2390.000	48.99	-7.53	41.46	54.00	-12.54	AVG			

**Produkte**  
 Products



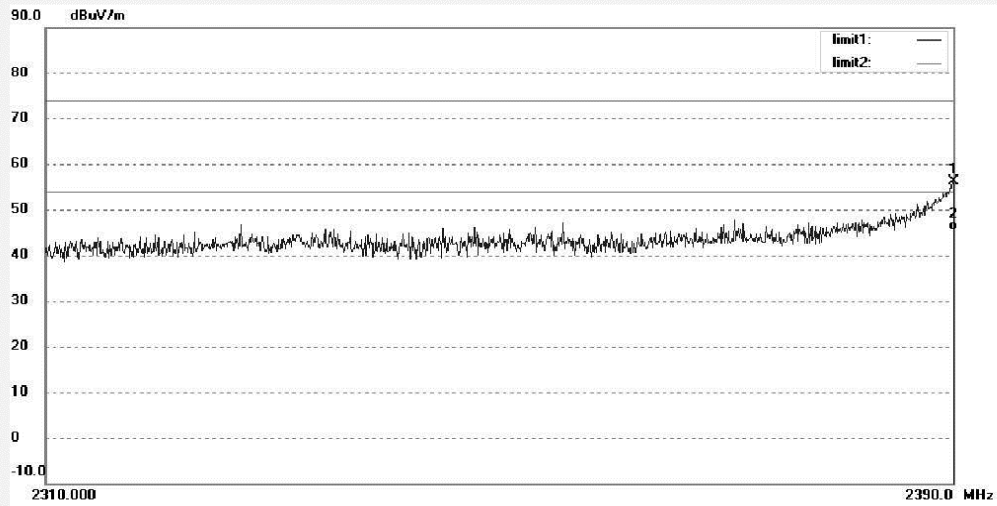
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Site: 2# Chamber  
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 Fax:+86-0755-26503396

Job No.: lenovo #272	Polarization: Vertical
Standard: FCC (Band Edge)	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 2015/02/08
Temp.( C)/Hum.(%) 23 C / 48 %	Time:
EUT: ThinkPad Stack Wireless Access Point	Engineer Signature:
Mode: TX 2412MHz	Distance: 3m
Model: R123	
Manufacturer: Lenovo	

Note: 802.11n HT20



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	63.67	-7.53	56.14	74.00	-17.86	peak			
2	2390.000	52.88	-7.53	45.35	54.00	-8.65	AVG			



**Produkte**  
 Products



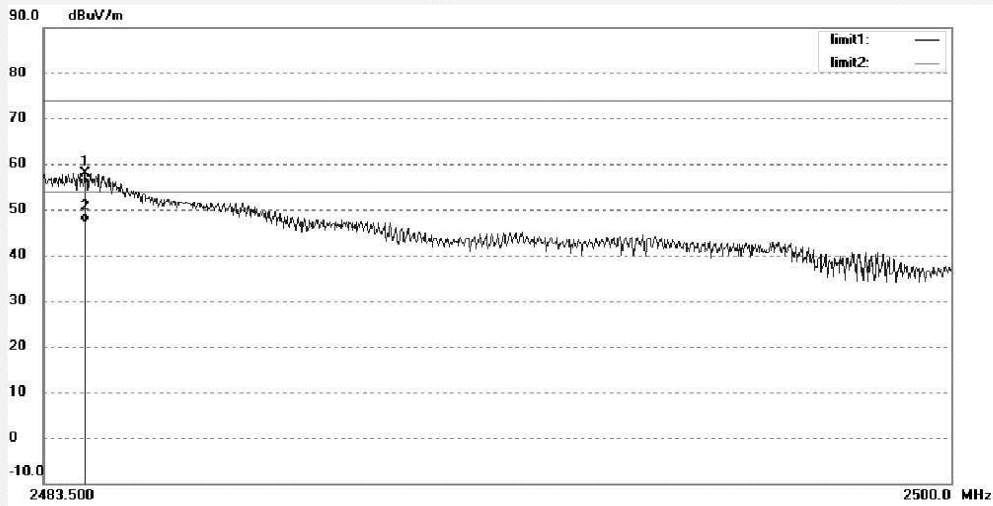
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 Fax:+86-0755-26503396

Job No.: lenovo #273	Polarization: Vertical
Standard: FCC (Band Edge)	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 2015/02/08
Temp.( C)/Hum.(%) 23 C / 48 %	Time:
EUT: ThinkPad Stack Wireless Access Point	Engineer Signature:
Mode: TX 2462MHz	Distance: 3m
Model: R123	
Manufacturer: Lenovo	

Note: 802.11n HT20



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2484.259	65.23	-7.38	57.85	74.00	-16.15	peak			
2	2484.259	54.56	-7.38	47.18	54.00	-6.82	AVG			

**Produkte**  
 Products



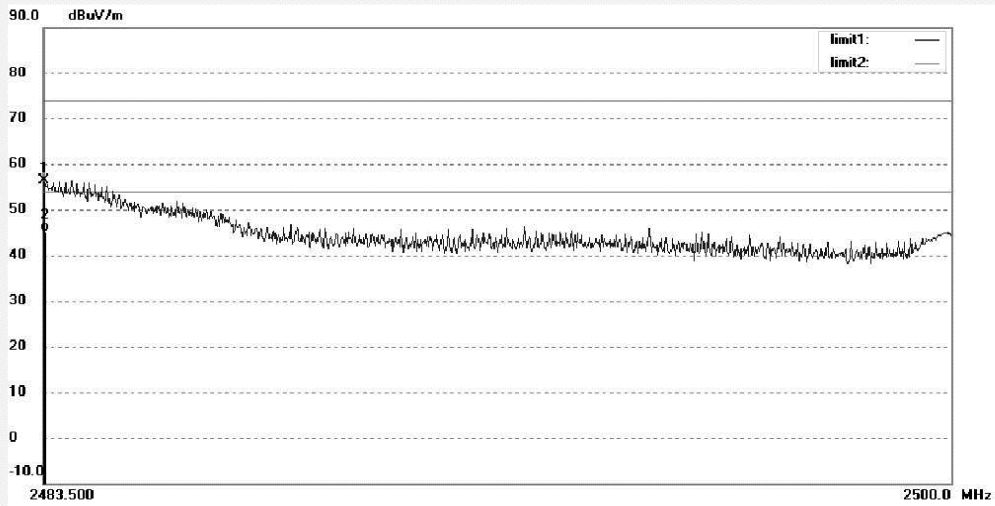
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 Fax:+86-0755-26503396

Job No.: lenovo #274	Polarization: Horizontal
Standard: FCC (Band Edge)	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 2015/02/08
Temp.( C)/Hum.(%) 23 C / 48 %	Time:
EUT: ThinkPad Stack Wireless Access Point	Engineer Signature:
Mode: TX 2462MHz	Distance: 3m
Model: R123	
Manufacturer: Lenovo	

Note: 802.11n HT20



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	63.82	-7.37	56.45	74.00	-17.55	peak			
2	2483.500	52.53	-7.37	45.16	54.00	-8.84	AVG			

Produkte  
 Products

**Appendix B.8: Radiated emission in restricted band, 802.11n HT40\_1TX**



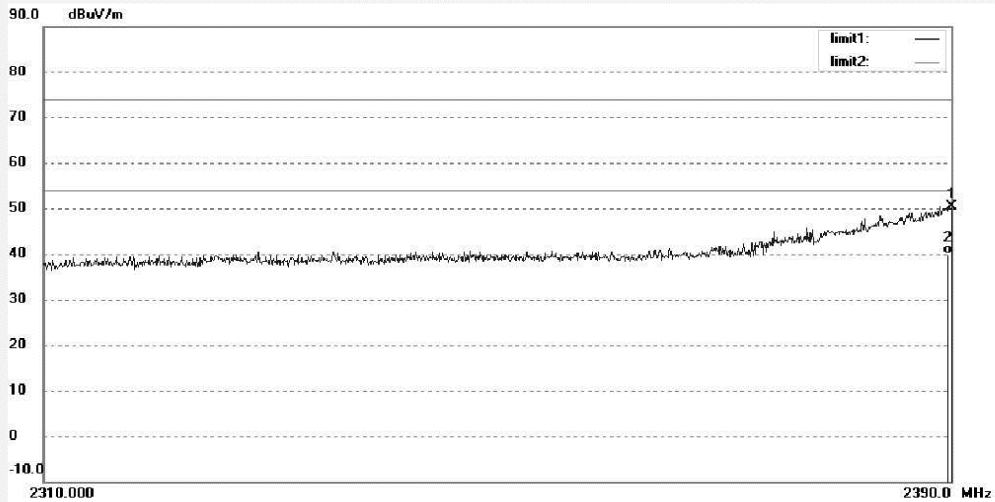
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 Fax:+86-0755-26503396

Job No.: lenovo #275	Polarization: Horizontal
Standard: FCC (Band Edge)	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 2015/02/08
Temp.( C)/Hum.(%) 23 C / 48 %	Time:
EUT: ThinkPad Stack Wireless Access Point	Engineer Signature:
Mode: TX 2422MHz	Distance: 3m
Model: R123	
Manufacturer: Lenovo	

Note: 802.11n HT40



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	58.00	-7.53	50.47	74.00	-23.53	peak			
2	2390.000	47.32	-7.53	39.79	54.00	-14.21	AVG			

**Produkte**  
 Products



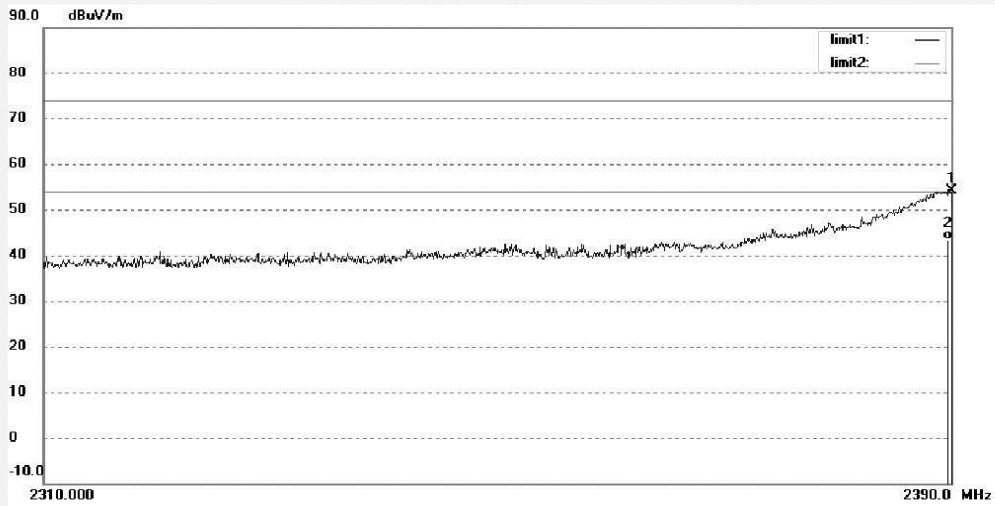
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 Fax:+86-0755-26503396

Job No.: lenovo #276	Polarization: Vertical
Standard: FCC (Band Edge)	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 2015/02/08
Temp.( C)/Hum.(%) 23 C / 48 %	Time:
EUT: ThinkPad Stack Wireless Access Point	Engineer Signature:
Mode: TX 2422MHz	Distance: 3m
Model: R123	
Manufacturer: Lenovo	

Note: 802.11n HT40



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	61.78	-7.53	54.25	74.00	-19.75	peak			
2	2390.000	50.85	-7.53	43.32	54.00	-10.68	AVG			



**Produkte**  
 Products



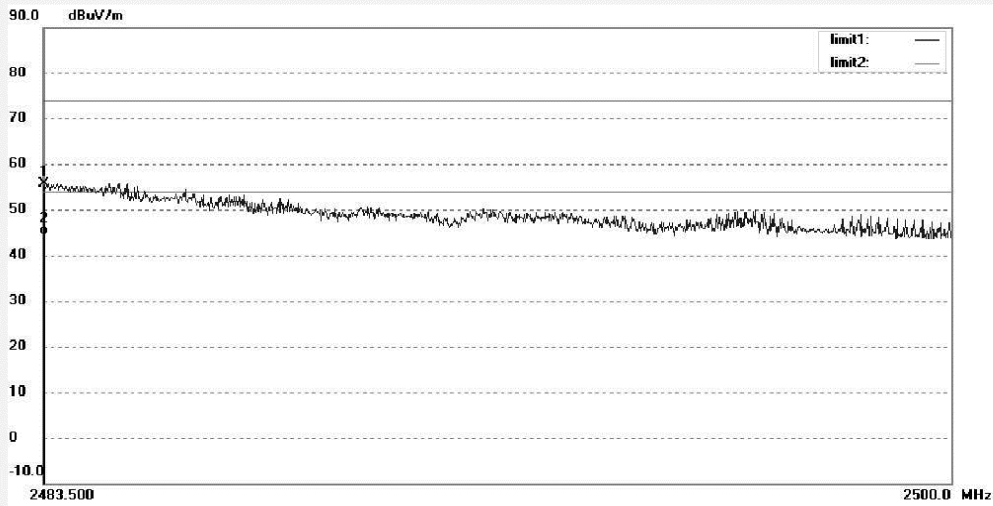
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Site: 2# Chamber  
 Tel:+86-0755-26503290  
 Fax:+86-0755-26503396

Job No.: lenovo #277	Polarization: Vertical
Standard: FCC (Band Edge)	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 2015/02/08
Temp.( C)/Hum.(%) 23 C / 48 %	Time:
EUT: ThinkPad Stack Wireless Access Point	Engineer Signature:
Mode: TX 2452MHz	Distance: 3m
Model: R123	
Manufacturer: Lenovo	

Note: 802.11n HT40



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	63.06	-7.37	55.69	74.00	-18.31	peak			
2	2483.500	51.79	-7.37	44.42	54.00	-9.58	AVG			

**Produkte**  
 Products



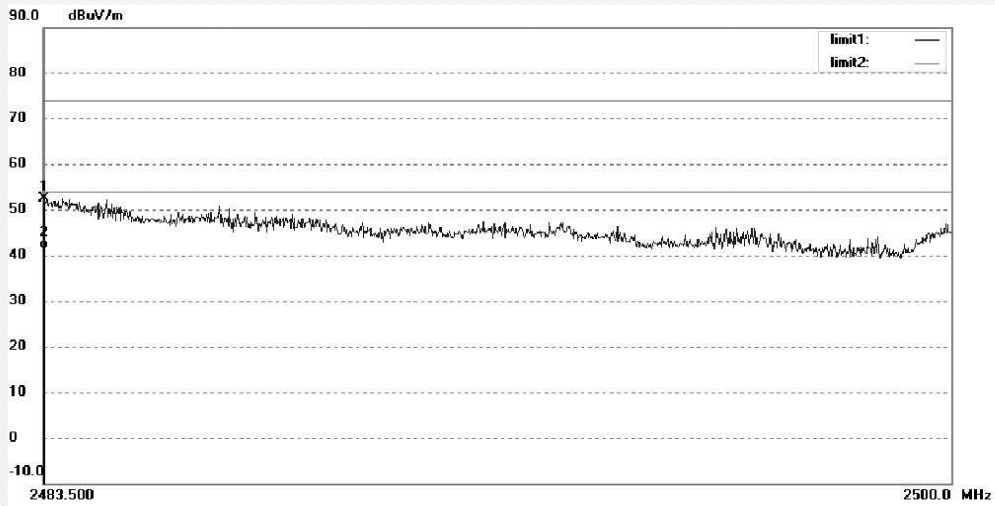
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Site: 2# Chamber  
 Tel:+86-0755-26503290  
 Fax:+86-0755-26503396

Job No.: lenovo #278	Polarization: Horizontal
Standard: FCC (Band Edge)	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 2015/02/08
Temp.( C)/Hum.(%) 23 C / 48 %	Time:
EUT: ThinkPad Stack Wireless Access Point	Engineer Signature:
Mode: TX 2452MHz	Distance: 3m
Model: R123	
Manufacturer: Lenovo	

Note: 802.11n HT40



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	59.67	-7.37	52.30	74.00	-21.70	peak			
2	2483.500	48.76	-7.37	41.39	54.00	-12.61	AVG			

# Appendix C

## Test Results of Radiated Emissions and Conducted Emissions

<b>APPENDIX C.1: TEST RESULTS OF RADIATED EMISSIONS .....</b>	<b>2</b>
ACCESS TO USB DISK VIA WI-FI .....	2
ACCESS TO HDD DISK VIA WI-FI.....	6
<b>APPENDIX C.2: TEST RESULTS OF CONDUCTED EMISSIONS.....</b>	<b>10</b>
ACCESS TO HDD DISK VIA WI-FI.....	10
ACCESS TO USB DISK VIA WI-FI .....	12

**Produkte**  
 Products

**Appendix C.1: Test Results of Radiated Emissions**  
 Access to USB disk via Wi-Fi

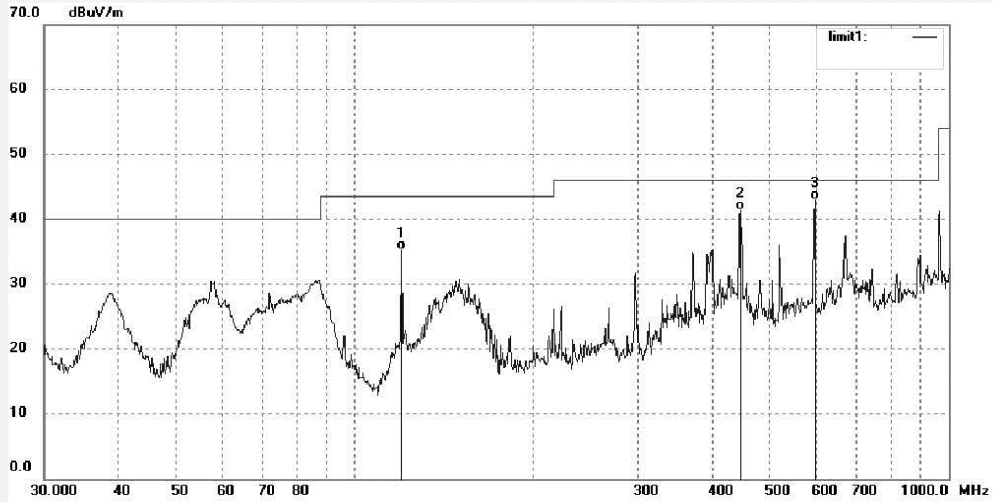


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 Science & Industry Park,Nanshan Shenzhen,P.R.China

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

Job No.: lenovo #847	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 15/04/27/
Temp.( C)/Hum.(%) 23 C / 48 %	Time:
EUT: ThinkPad Stack Wireless Access Point	Engineer Signature:
Mode: Access to USB disk via WiFi	Distance: 3m
Model: R123	
Manufacturer: Lenovo	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	119.8555	48.34	-13.15	35.19	43.50	-8.31	QP			
2	446.4141	47.18	-5.84	41.34	46.00	-4.66	QP			
3	595.1327	45.99	-3.02	42.97	46.00	-3.03	QP			



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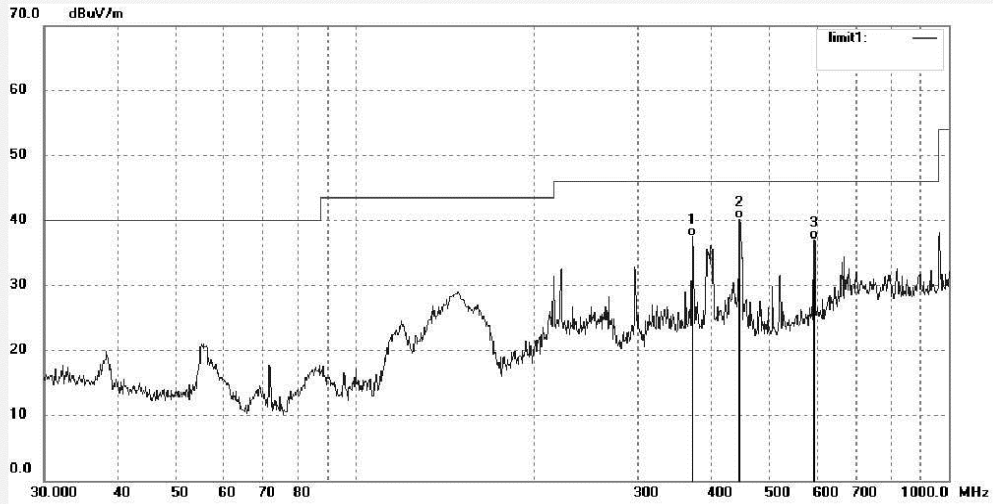
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Site: 2# Chamber  
 Tel:+86-0755-26503290  
 Fax:+86-0755-26503396

Job No.: lenovo #848	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 15/04/27/
Temp.( C)/Hum.(%) 23 C / 48 %	Time:
EUT: ThinkPad Stack Wireless Access Point	Engineer Signature:
Mode: Access to USB disk via WiFi	Distance: 3m
Model: R123	
Manufacturer: Lenovo	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	369.4045	44.98	-7.51	37.47	46.00	-8.53	QP			
2	444.8514	46.02	-5.86	40.16	46.00	-5.84	QP			
3	593.0497	39.96	-3.03	36.93	46.00	-9.07	QP			

**Produkte**  
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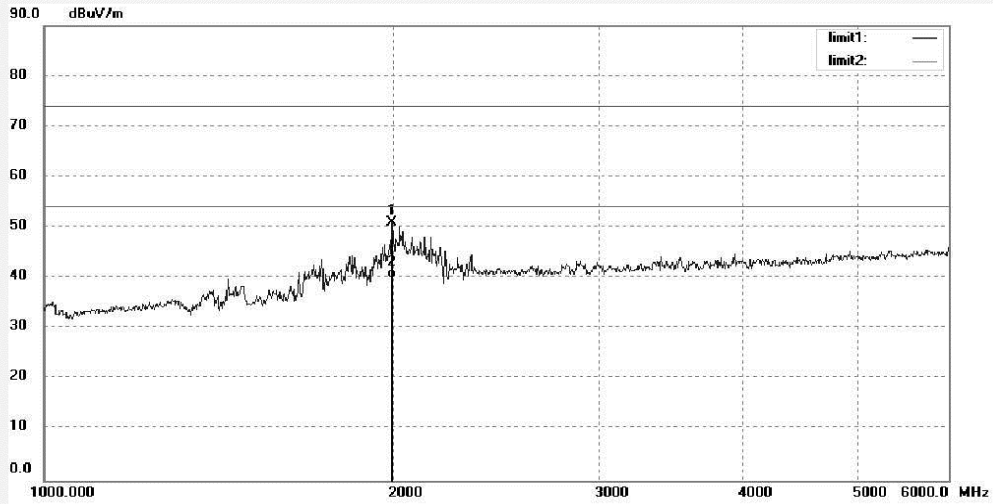
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 Fax:+86-0755-26503396

Job No.: lenovo #873	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 15/04/27/
Temp.( C)/Hum.(%) 23 C / 48 %	Time:
EUT: ThinkPad Stack Wireless Access Point	Engineer Signature:
Mode: Access to USB disk via WiFi	Distance: 3m
Model: R123	
Manufacturer: Lenovo	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	1993.371	59.92	-9.04	50.88	74.00	-23.12	peak			
2	1993.371	48.98	-9.04	39.94	54.00	-14.06	AVG			

Produkte  
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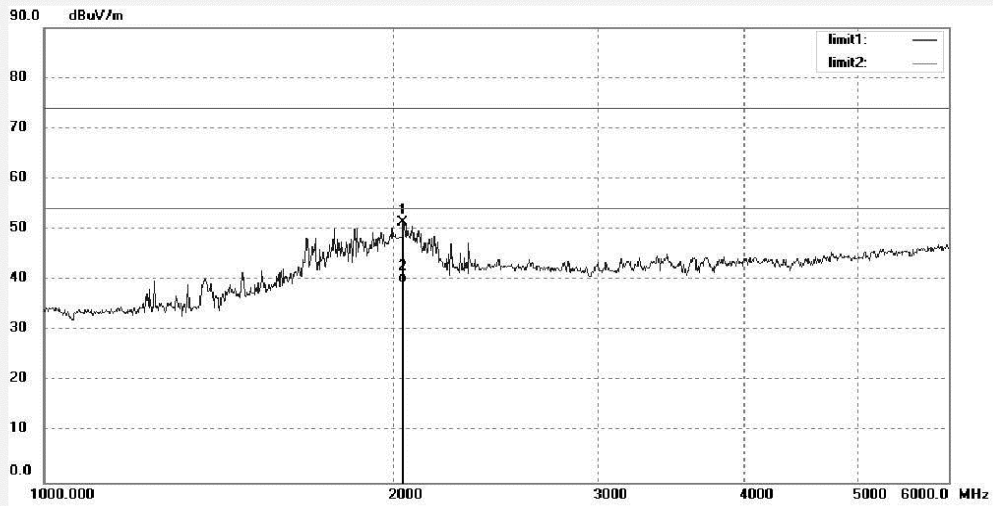
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 Fax:+86-0755-26503396

Job No.: lenovo #874	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 15/04/27/
Temp.( C)/Hum.(%) 23 C / 48 %	Time:
EUT: ThinkPad Stack Wireless Access Point	Engineer Signature:
Mode: Access to USB disk via WiFi	Distance: 3m
Model: R123	
Manufacturer: Lenovo	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2036.695	60.31	-8.97	51.34	74.00	-22.66	peak			
2	2036.695	48.53	-8.97	39.56	54.00	-14.44	AVG			

**Produkte**  
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Access to HDD disk via Wi-Fi

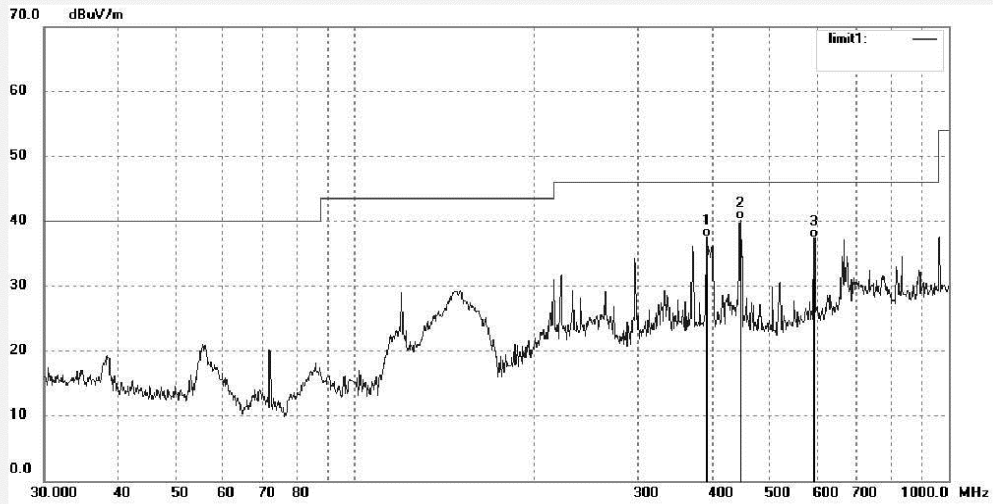


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Site: 2# Chamber  
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 Fax:+86-0755-26503396

Job No.: lenovo #849	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 15/04/27/
Temp.( C)/Hum.(%) 23 C / 48 %	Time:
EUT: ThinkPad Stack Wireless Access Point	Engineer Signature:
Mode: Access to USB HDD via WiFi	Distance: 3m
Model: R123	
Manufacturer: Lenovo	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	392.0951	44.66	-7.14	37.52	46.00	-8.48	QP			
2	446.4141	45.96	-5.84	40.12	46.00	-5.88	QP			
3	593.0497	40.45	-3.03	37.42	46.00	-8.58	QP			



**Produkte**  
 Products



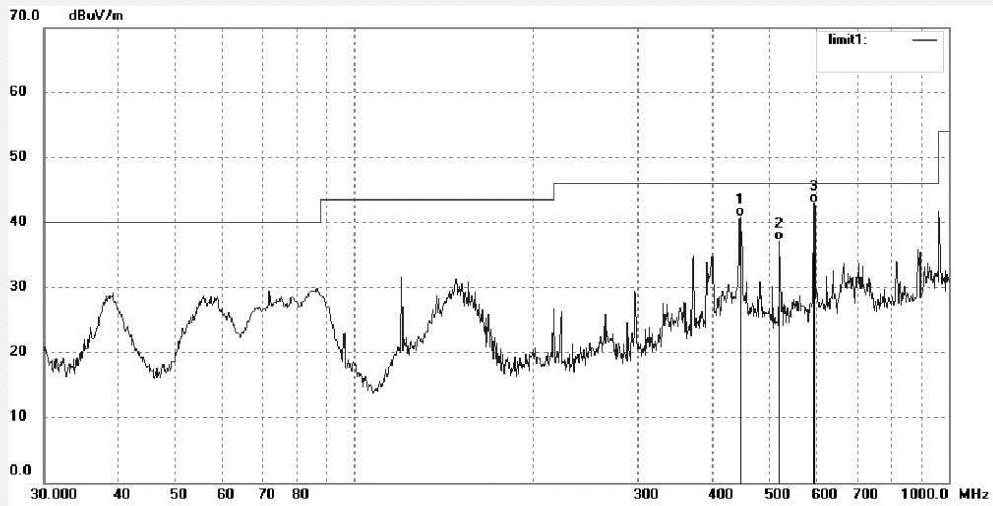
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 Science & Industry Park,Nanshan Shenzhen,P.R.China

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

Job No.: lenovo #850	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 15/04/27/
Temp.( C)/Hum.(%) 23 C / 48 %	Time:
EUT: ThinkPad Stack Wireless Access Point	Engineer Signature:
Mode: Access to USB HDD via WiFi	Distance: 3m
Model: R123	
Manufacturer: Lenovo	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	446.4141	46.71	-5.84	40.87	46.00	-5.13	QP			
2	519.0647	41.55	-4.36	37.19	46.00	-8.81	QP			
3	593.0497	45.97	-3.03	42.94	46.00	-3.06	QP			

**Produkte**  
 Products



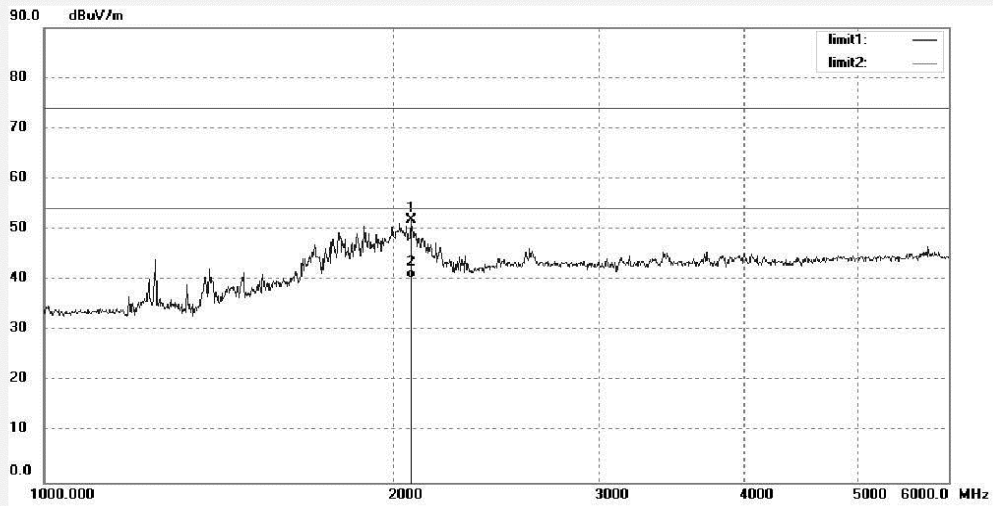
**ACCURATE TECHNOLOGY CO., LTD.**

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.: lenovo #875	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 15/04/27/
Temp.( C)/Hum.(%) 23 C / 48 %	Time:
EUT: ThinkPad Stack Wireless Access Point	Engineer Signature:
Mode: Access to USB HDD via WiFi	Distance: 3m
Model: R123	
Manufacturer: Lenovo	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2069.805	60.61	-8.76	51.85	74.00	-22.15	peak			
2	2069.805	49.08	-8.76	40.32	54.00	-13.68	AVG			

**Produkte**  
 Products



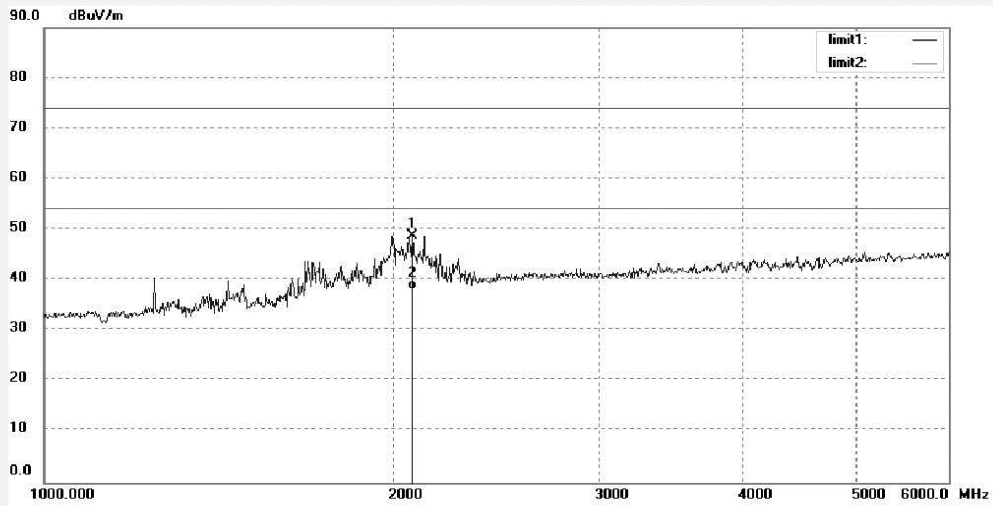
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F1,Bldg,A,Changyuan New Material Port Keyuan Rd,  
 Science & Industry Park,Nanshan Shenzhen,P.R.China

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

Job No.: lenovo #876	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 15/04/27/
Temp.( C)/Hum.(%) 23 C / 48 %	Time:
EUT: ThinkPad Stack Wireless Access Point	Engineer Signature:
Mode: Access to USB HDD via WiFi	Distance: 3m
Model: R123	
Manufacturer: Lenovo	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2073.517	57.49	-8.72	48.77	74.00	-25.23	peak			
2	2073.517	46.78	-8.72	38.06	54.00	-15.94	AVG			

**Appendix C.2: Test Results of Conducted Emissions**  
 Access to HDD disk via Wi-Fi

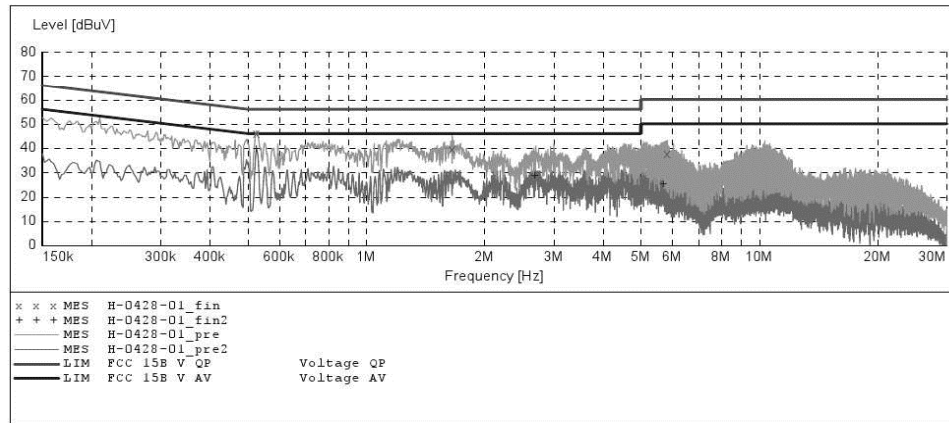
**ACCURATE TECHNOLOGY CO., LTD**

**CONDUCTED EMISSION STANDARD FCC PART 15 B**

EUT: ThinkPad Stack Wireless Access Point M/N:R123  
 Manufacturer: Lenovo  
 Operating Condition: Access to USB HDD via WiFi  
 Test Site: 1#Shielding Room  
 Operator: LAN  
 Test Specification: L 120V/60Hz  
 Comment: Mains Port  
 Start of Test: 2015-4-28 /

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

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



**MEASUREMENT RESULT: "H-0428-01\_fin"**

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.526000	46.00	11.5	56	10.0	QP	L1	GND
1.656000	39.30	11.6	56	16.7	QP	L1	GND
5.838500	37.40	11.8	60	22.6	QP	L1	GND

**MEASUREMENT RESULT: "H-0428-01\_fin2"**

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.526000	39.60	11.5	46	6.4	AV	L1	GND
2.688500	28.50	11.7	46	17.5	AV	L1	GND
5.694500	24.90	11.8	50	25.1	AV	L1	GND



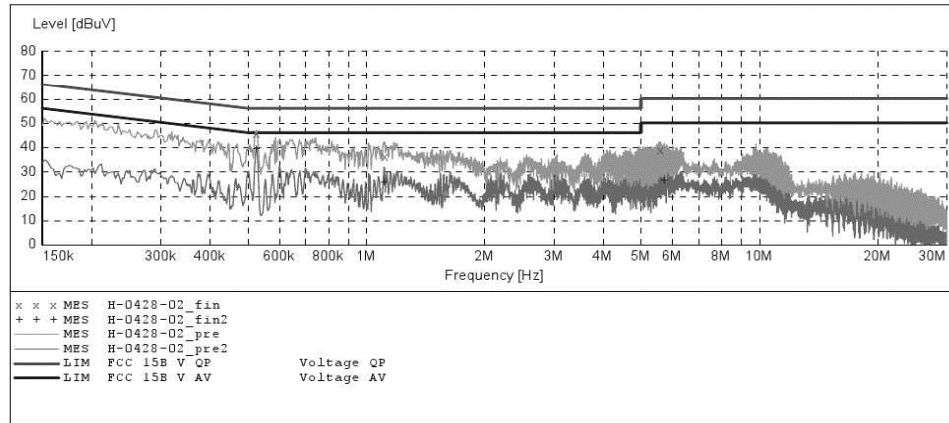
**ACCURATE TECHNOLOGY CO., LTD**

**CONDUCTED EMISSION STANDARD FCC PART 15 B**

EUT: ThinkPad Stack Wireless Access Point M/N:R123  
 Manufacturer: Lenovo  
 Operating Condition: Access to USB HDD via WiFi  
 Test Site: 1#Shielding Room  
 Operator: LAN  
 Test Specification: N 120V/60Hz  
 Comment: Mains Port  
 Start of Test: 2015-4-28 /

**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: "H-0428-02\_fin"**

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.526000	45.40	11.5	56	10.6	QP	N	GND
1.116000	36.00	11.6	56	20.0	QP	N	GND
5.613500	38.60	11.8	60	21.4	QP	N	GND

**MEASUREMENT RESULT: "H-0428-02\_fin2"**

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.526000	39.10	11.5	46	6.9	AV	N	GND
1.112000	25.40	11.6	46	20.6	AV	N	GND
5.730500	26.00	11.8	50	24.0	AV	N	GND

Access to USB disk via Wi-Fi

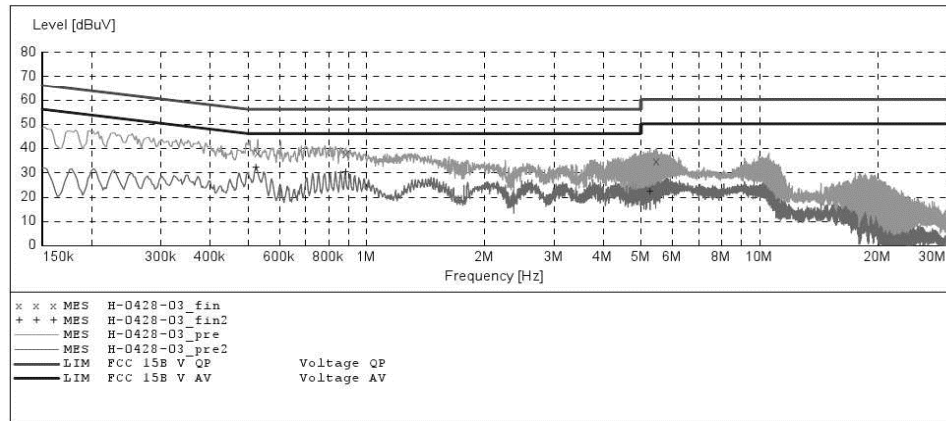
**ACCURATE TECHNOLOGY CO., LTD**

**CONDUCTED EMISSION STANDARD FCC PART 15 B**

EUT: ThinkPad Stack Wireless Access Point M/N:R123  
 Manufacturer: Lenovo  
 Operating Condition: Access to USB disk via WiFi  
 Test Site: 1#Shielding Room  
 Operator: LAN  
 Test Specification: N 120V/60Hz  
 Comment: Mains Port  
 Start of Test: 2015-4-28 /

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

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



**MEASUREMENT RESULT: "H-0428-03\_fin"**

2015-4-28

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.530000	37.90	11.5	56	18.1	QP	N	GND
0.888000	37.50	11.6	56	18.5	QP	N	GND
5.474000	34.50	11.8	60	25.5	QP	N	GND

**MEASUREMENT RESULT: "H-0428-03\_fin2"**

2015-4-28

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.524000	31.80	11.5	46	14.2	AV	N	GND
0.886000	29.70	11.6	46	16.3	AV	N	GND
5.271500	21.90	11.8	50	28.1	AV	N	GND

**ACCURATE TECHNOLOGY CO., LTD**

**CONDUCTED EMISSION STANDARD FCC PART 15 B**

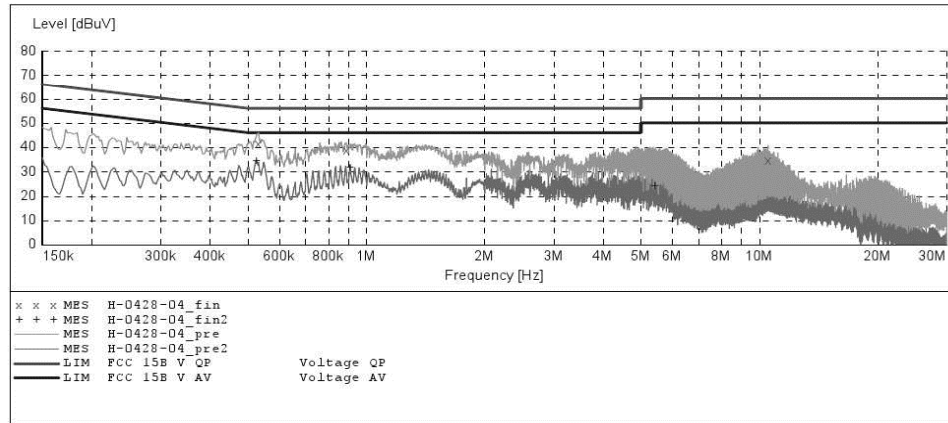
EUT: ThinkPad Stack Wireless Access Point M/N:R123  
 Manufacturer: Lenovo  
 Operating Condition: Access to USB disk via WiFi  
 Test Site: 1#Shielding Room  
 Operator: LAN  
 Test Specification: L 120V/60Hz  
 Comment: Mains Port  
 Start of Test: 2015-4-28 /

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

Short Description: \_SUB\_STD\_VTERM2 1.70  

Start Frequency	Stop Frequency	Step Width	Detector	Meas. Time	IF Bandw.	Transducer
150.0 kHz	30.0 MHz	4.5 kHz	QuasiPeak	1.0 s	9 kHz	NSLK8126 2008

 Average



**MEASUREMENT RESULT: "H-0428-04\_fin"**

2015-4-28

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.532000	41.30	11.5	56	14.7	QP	L1	GND
0.890000	38.70	11.6	56	17.3	QP	L1	GND
10.527500	34.40	11.9	60	25.6	QP	L1	GND

**MEASUREMENT RESULT: "H-0428-04\_fin2"**

2015-4-28

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.526000	34.10	11.5	46	11.9	AV	L1	GND
0.910000	31.40	11.6	46	14.6	AV	L1	GND
5.420000	23.80	11.8	50	26.2	AV	L1	GND

# Appendix D

## Test Results of RF Exposure

APPENDIX D.1: RF EXPOSURE COMPLIANCE ..... 2



## Appendix D.1: RF Exposure Compliance

### Radio Frequency Exposure Compliance

**RESULT:**

**Passed**

Test standard : FCC 1.1310  
RSS-102 Issue 5  
FCC KDB publication 447498 D01 v05

This device is mobile device, and the applicant declares that the minimum separation distance is greater than 20cm. Therefore MPE measurement or computational modeling should be used to determine compliance.

MPE Calculation  
According to the formula

$$Pd = \frac{Pout * G}{4R^2\pi}$$

Where

Pd = power density in mW/cm<sup>2</sup> or W/m<sup>2</sup>

Pout = output power to antenna in mW or W

G = Antenna gain in numeric

π = 3.14159

R = Distance between observation point and the center of radiator in cm or m

In here

Pout = 16.50dBm = 44.67mW

G = 1.2dBi = 1.32 (numeric)

R = 20cm

For Bluetooth operation:

$$Pd = \frac{Pout * G}{4R^2\pi} = \frac{44.67 * 1.32}{4 * 20^2 * 3.14159} = 0.0117mW / cm^2 < 1mW/cm^2 \text{ for FCC limit}$$

$$Pd = \frac{Pout * G}{4R^2\pi} = \frac{0.04467 * 1.32}{4 * 0.2^2 * 3.14159} = 0.117W / m^2 < 5.4W/m^2 \text{ for IC limit}$$

The summed maximum permissible exposure (MPE) level is 0.0117mW/cm<sup>2</sup> and 0.117W/m<sup>2</sup>. It is less than MPE limit 1mW/cm<sup>2</sup> for FCC and 5.4W/m<sup>2</sup> for IC, therefore the device compliance with MPE limit.