

**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.: LAN2014 #2023

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: Wi-Fi Dongle

Mode: TX 2422MHz

Model: TD-2021N-USB

Manufacturer: HUAWEI

Polarization: Vertical

Power Source: DC 5V

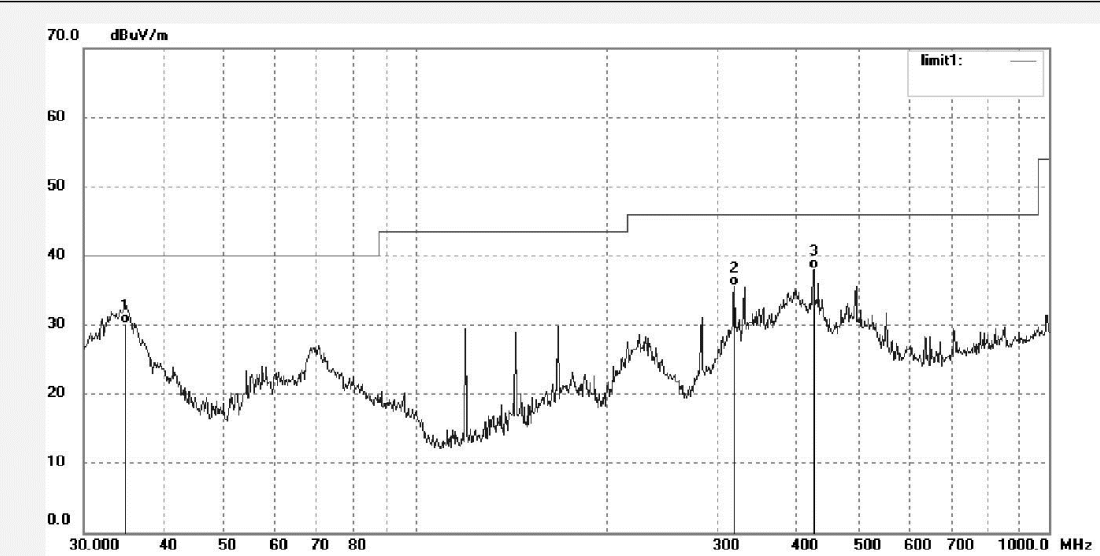
Date: 14/12/30/

Time:

Engineer Signature:

Distance: 3m

Note: 802.11n40



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	34.8823	40.65	-10.41	30.24	40.00	-9.76	QP			
2	318.8170	44.39	-8.78	35.61	46.00	-10.39	QP			
3	425.0280	44.20	-6.16	38.04	46.00	-7.96	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.: LAN2014 #2024

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: Wi-Fi Dongle

Mode: TX 2437MHz

Model: TD-2021N-USB

Manufacturer: HUAWEI

Polarization: Vertical

Power Source: DC 5V

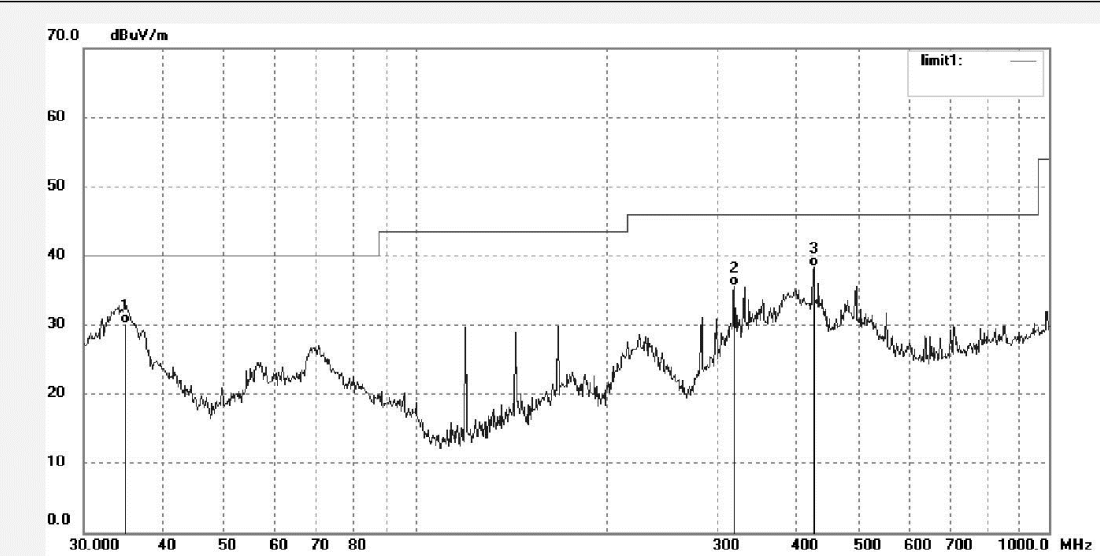
Date: 14/12/30/

Time:

Engineer Signature:

Distance: 3m

Note: 802.11n40



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	34.8823	40.65	-10.41	30.24	40.00	-9.76	QP			
2	318.8170	44.39	-8.78	35.61	46.00	-10.39	QP			
3	425.0280	44.54	-6.16	38.38	46.00	-7.62	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.: LAN2014 #2025
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: Wi-Fi Dongle
Mode: TX 2437MHz
Model: TD-2021N-USB
Manufacturer: HUAWEI

Polarization: Horizontal
Power Source: DC 5V
Date: 14/12/30/
Time:
Engineer Signature:
Distance: 3m

Note: 802.11n40



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	318.8170	41.73	-8.78	32.95	46.00	-13.05	QP			
2	477.1693	35.95	-5.38	30.57	46.00	-15.43	QP			
3	962.1622	33.78	2.37	36.15	54.00	-17.85	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.: LAN2014 #2026

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: Wi-Fi Dongle

Mode: TX 2462MHz

Model: TD-2021N-USB

Manufacturer: HUAWEI

Polarization: Horizontal

Power Source: DC 5V

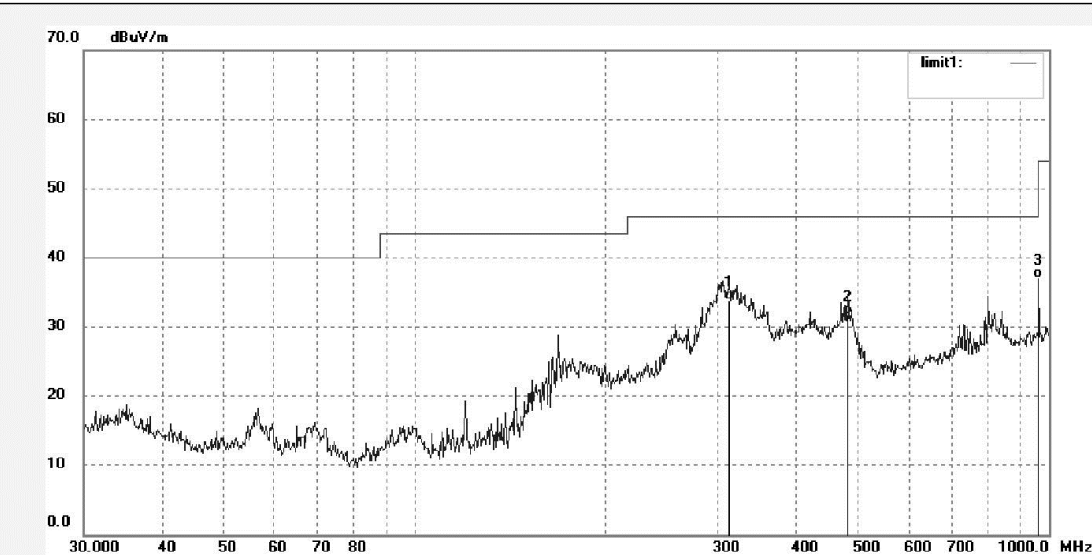
Date: 14/12/30/

Time:

Engineer Signature:

Distance: 3m

Note: 802.11n40



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	313.2760	42.79	-8.93	33.86	46.00	-12.14	QP			
2	480.5276	37.07	-5.34	31.73	46.00	-14.27	QP			
3	962.1622	34.61	2.37	36.98	54.00	-17.02	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.: LAN2014 #2027

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: Wi-Fi Dongle

Mode: TX 2462MHz

Model: TD-2021N-USB

Manufacturer: HUAWEI

Polarization: Vertical

Power Source: DC 5V

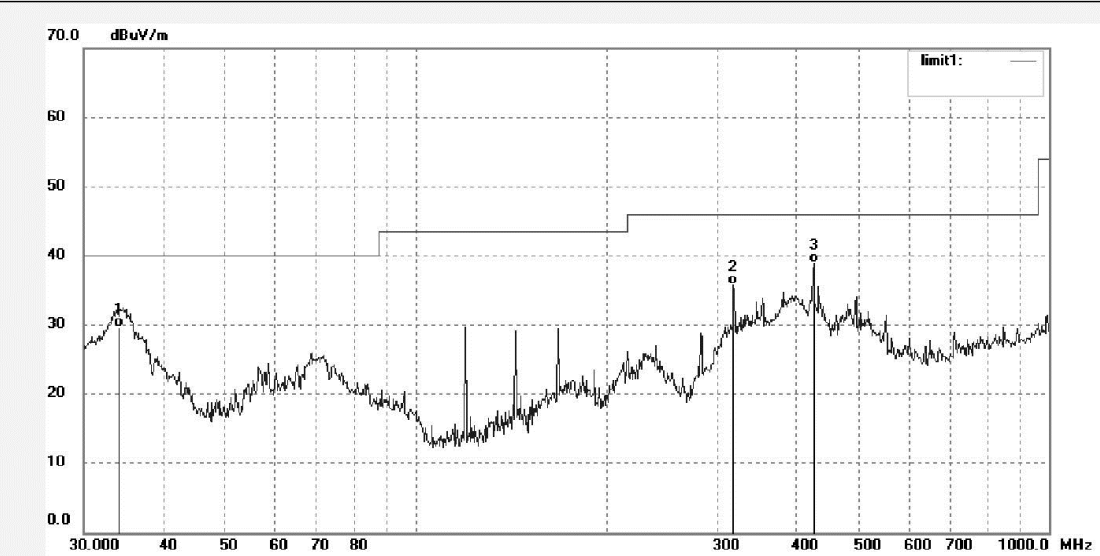
Date: 14/12/30/

Time:

Engineer Signature:

Distance: 3m

Note: 802.11n40



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	34.1561	39.92	-10.33	29.59	40.00	-10.41	QP			
2	317.7010	44.59	-8.81	35.78	46.00	-10.22	QP			
3	425.0280	45.08	-6.16	38.92	46.00	-7.08	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.: LAN2014 #2223

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: Wi-Fi Dongle

Mode: TX 2422MHz

Model: TD-2021N-USB

Manufacturer: HUAWEI

Polarization: Horizontal

Power Source: DC 5V

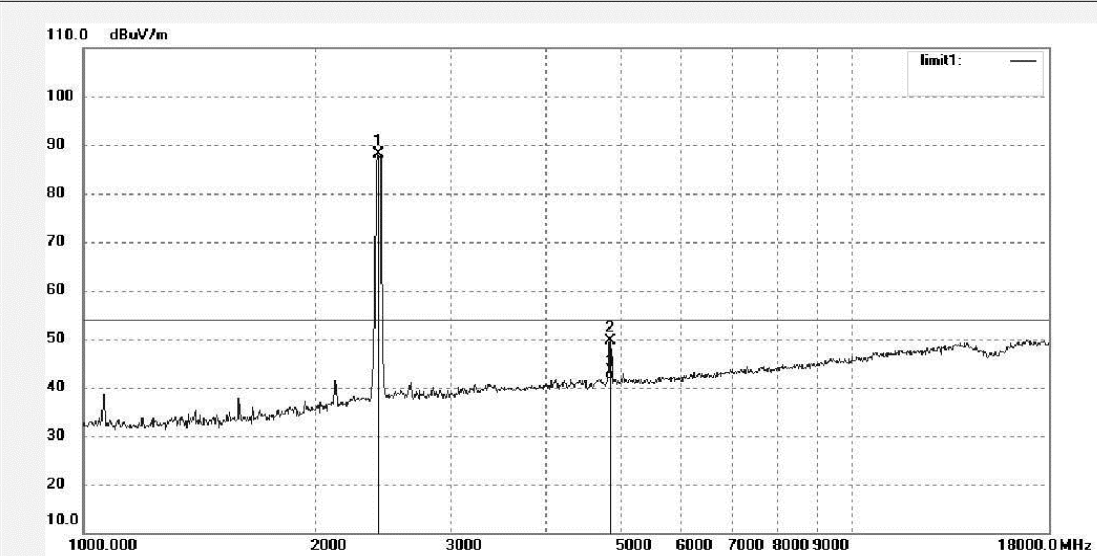
Date: 15/05/09/

Time:

Engineer Signature:

Distance: 3m

Note: 802.11n40



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	95.53	-7.40	88.13	/	/	peak			
2	4844.325	49.61	-0.07	49.54	74.00	-24.46	peak			
3	4844.325	41.59	-0.07	41.52	54.00	-12.48	AVG			



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.: LAN2014 #2224

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: Wi-Fi Dongle

Mode: TX 2422MHz

Model: TD-2021N-USB

Manufacturer: HUAWEI

Polarization: Vertical

Power Source: DC 5V

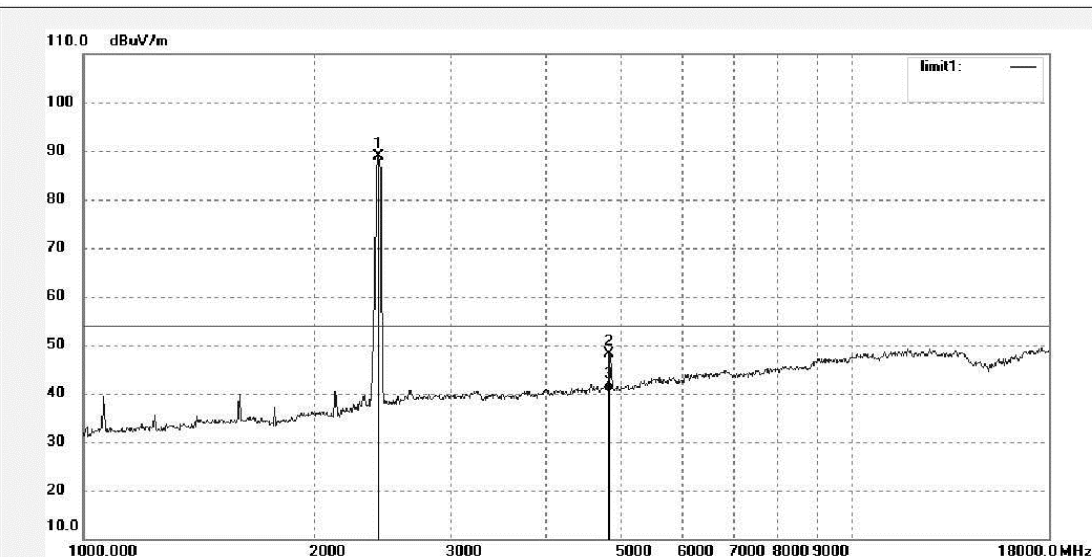
Date: 15/05/09/

Time:

Engineer Signature:

Distance: 3m

Note: 802.11n40



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	96.31	-7.40	88.91	/	/	peak			
2	4844.345	48.22	-0.07	48.15	74.00	-25.85	peak			
3	4844.345	40.50	-0.07	40.43	54.00	-13.57	AVG			

**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.: LAN2014 #2225

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: Wi-Fi Dongle

Mode: TX 2437MHz

Model: TD-2021N-USB

Manufacturer: HUAWEI

Polarization: Vertical

Power Source: DC 5V

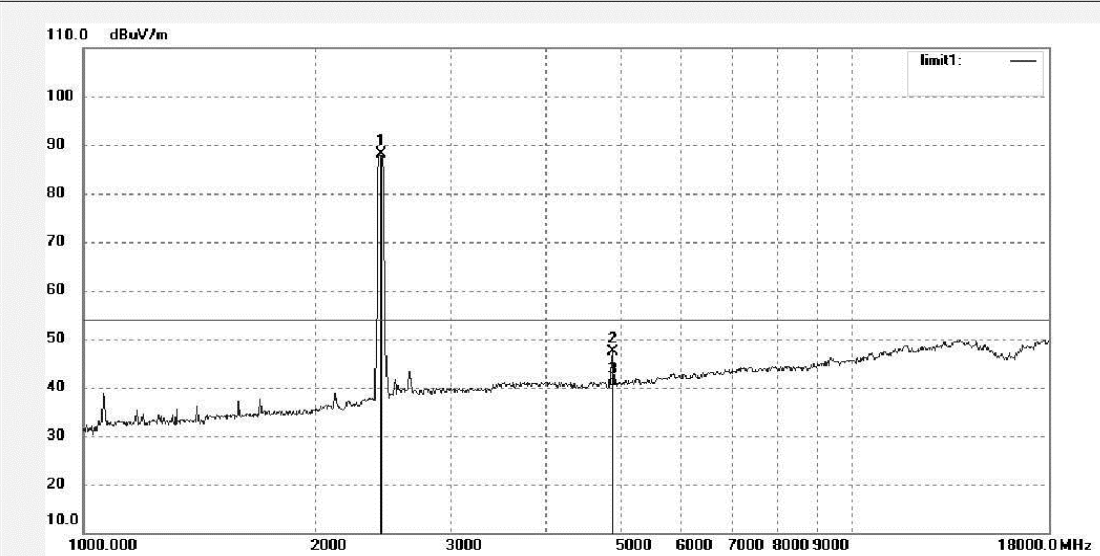
Date: 15/05/09/

Time:

Engineer Signature:

Distance: 3m

Note: 802.11n40



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	95.44	-7.36	88.08	/	/	peak			
2	4874.328	47.30	0.09	47.39	74.00	-26.61	peak			
3	4874.328	40.03	0.09	40.12	54.00	-13.88	AVG			

**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.: LAN2014 #2226

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: Wi-Fi Dongle

Mode: TX 2437MHz

Model: TD-2021N-USB

Manufacturer: HUAWEI

Polarization: Horizontal

Power Source: DC 5V

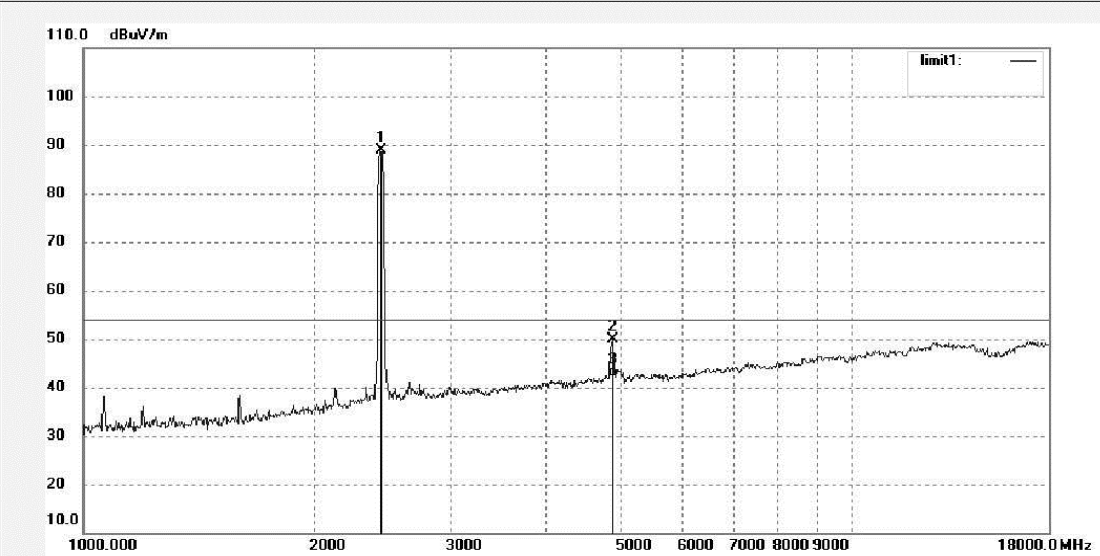
Date: 15/05/09/

Time:

Engineer Signature:

Distance: 3m

Note: 802.11n40



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	96.33	-7.36	88.97	/	/	peak			
2	4874.347	49.89	0.09	49.98	74.00	-24.02	peak			
3	4874.347	41.99	0.09	42.08	54.00	-11.92	AVG			

**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.: LAN2014 #2227

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: Wi-Fi Dongle

Mode: TX 2452MHz

Model: TD-2021N-USB

Manufacturer: HUAWEI

Polarization: Horizontal

Power Source: DC 5V

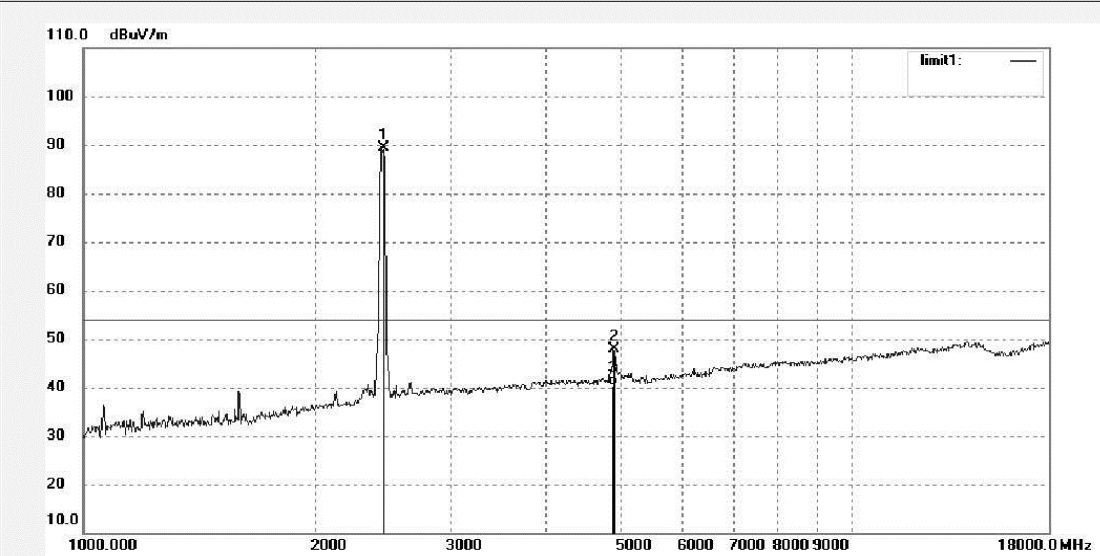
Date: 15/05/09/

Time:

Engineer Signature:

Distance: 3m

Note: 802.11n40



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	96.75	-7.33	89.42	/	/	peak			
2	4904.369	47.53	0.25	47.78	54.00	-6.22	peak			
3	4904.369	40.15	0.25	40.40	54.00	-13.60	AVG			

**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.: LAN2014 #2228

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: Wi-Fi Dongle

Mode: TX 2452MHz

Model: TD-2021N-USB

Manufacturer: HUAWEI

Polarization: Vertical

Power Source: DC 5V

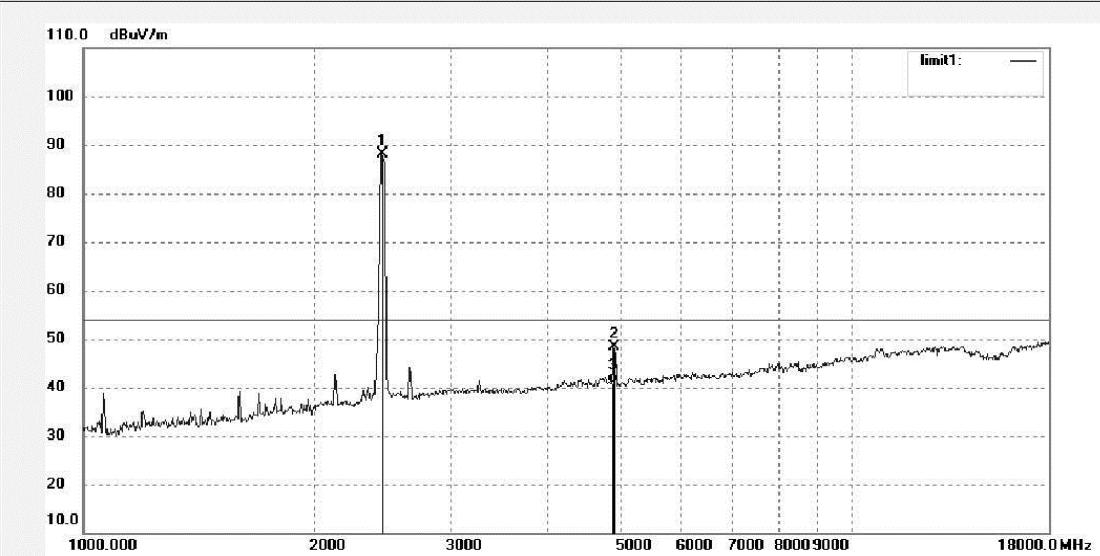
Date: 15/05/09/

Time:

Engineer Signature:

Distance: 3m

Note: 802.11n40



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	95.46	-7.33	88.13	/	/	peak			
2	4904.370	48.09	0.25	48.34	74.00	-25.66	peak			
3	4904.370	40.55	0.25	40.80	54.00	-13.20	AVG			

**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.: LAN2014 #2278

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: Wi-Fi Dongle

Mode: TX 2422MHz

Model: TD-2021N-USB

Manufacturer: HUAWEI

Polarization: Vertical

Power Source: DC 5V

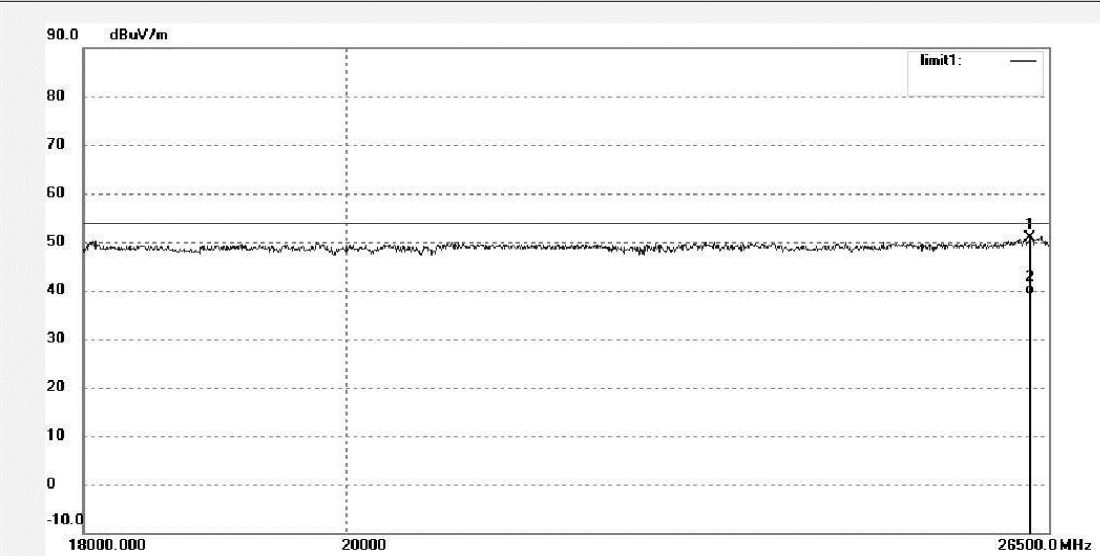
Date: 15/05/09/

Time:

Engineer Signature:

Distance: 3m

Note: 802.11n40



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	26305.974	34.46	16.50	50.96	74.00	-23.04	peak			
2	26305.974	22.52	16.50	39.02	54.00	-14.98	AVG			

**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.: LAN2014 #2279

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: Wi-Fi Dongle

Mode: TX 2422MHz

Model: TD-2021N-USB

Manufacturer: HUAWEI

Polarization: Horizontal

Power Source: DC 5V

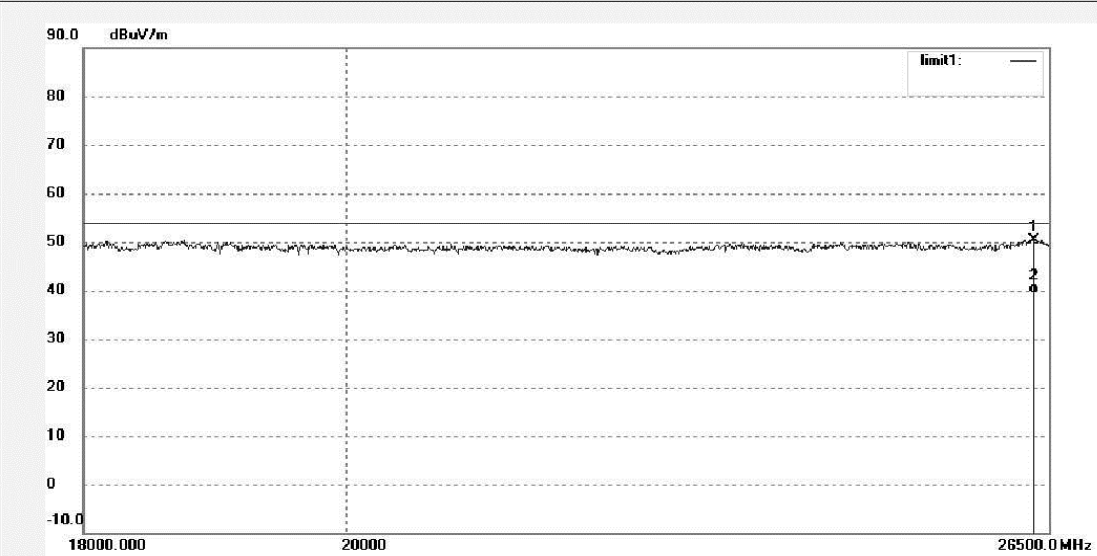
Date: 15/05/09/

Time:

Engineer Signature:

Distance: 3m

Note: 802.11n40



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	26346.703	33.86	16.50	50.36	74.00	-23.64	peak			
2	26346.703	22.90	16.50	39.40	54.00	-14.60	AVG			



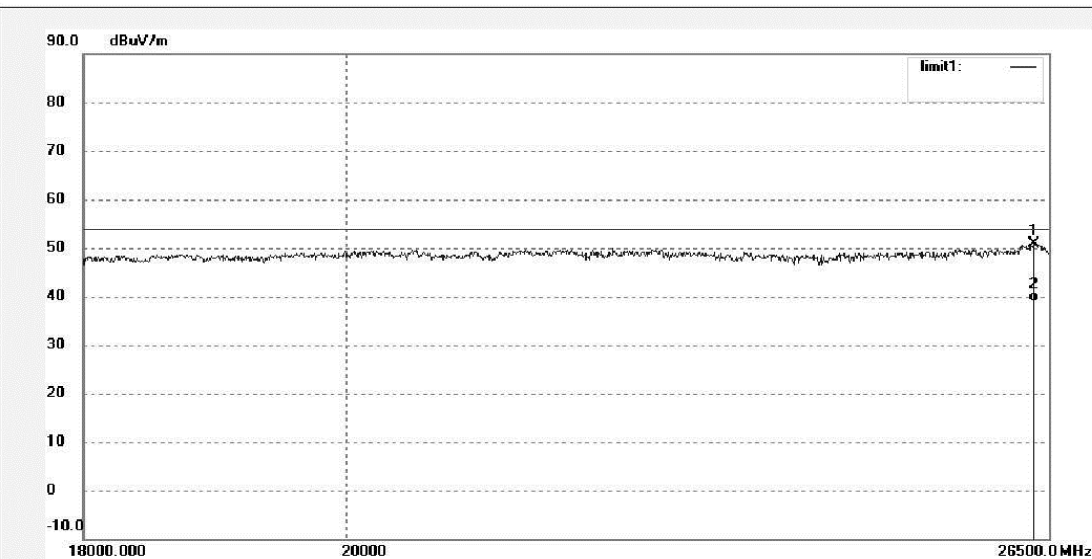
ACCURATE TECHNOLOGY CO., LTD.
F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

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

Job No.: LAN2014 #2280
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: Wi-Fi Dongle
Mode: TX 2437MHz
Model: TD-2021N-USB
Manufacturer: HUAWEI

Polarization: Horizontal
Power Source: DC 5V
Date: 15/05/09/
Time:
Engineer Signature:
Distance: 3m

Note: 802.11n40



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	26336.515	34.33	16.50	50.83	74.00	-23.17	peak			
2	26336.515	22.47	16.50	38.97	54.00	-15.03	AVG			



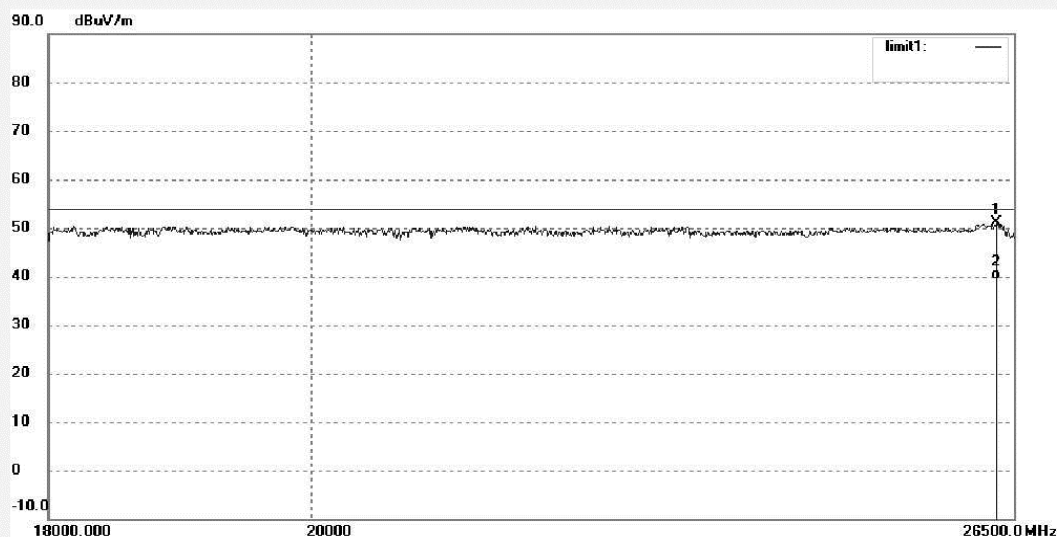
ACCURATE TECHNOLOGY CO., LTD.
F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

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

Job No.: LAN2014 #2281
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: Wi-Fi Dongle
Mode: TX 2437MHz
Model: TD-2021N-USB
Manufacturer: HUAWEI

Polarization: Vertical
Power Source: DC 5V
Date: 15/05/09/
Time:
Engineer Signature:
Distance: 3m

Note: 802.11n40



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	26316.150	34.65	16.50	51.15	74.00	-22.85	peak			
2	26316.150	22.87	16.50	39.37	54.00	-14.63	AVG			

**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.: LAN2014 #2298

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: Wi-Fi Dongle

Mode: TX 2452MHz

Model: TD-2021N-USB

Manufacturer: HUAWEI

Polarization: Vertical

Power Source: DC 5V

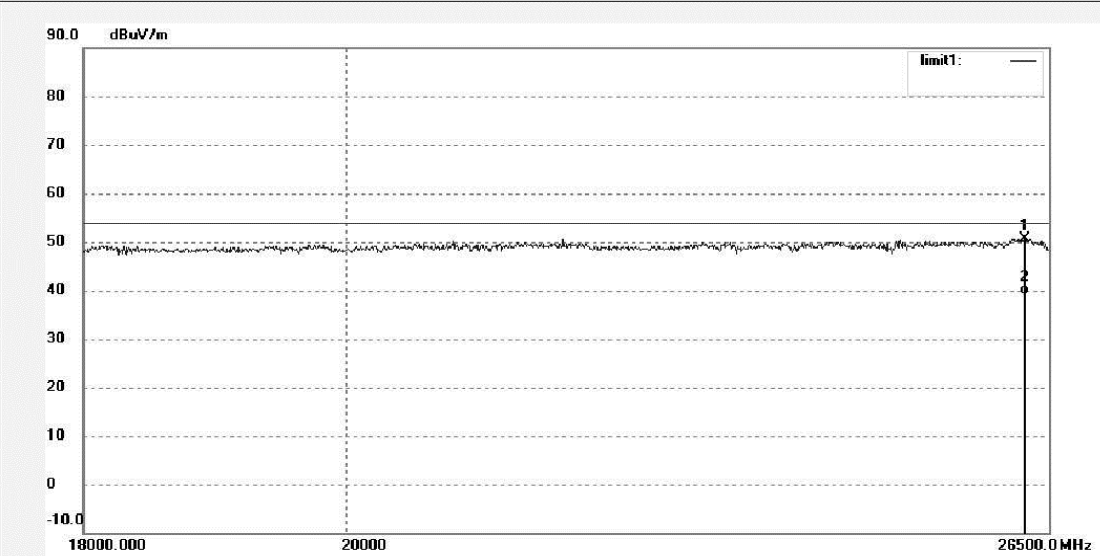
Date: 15/05/09/

Time:

Engineer Signature:

Distance: 3m

Note: 802.11n40



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	26244.998	34.18	16.50	50.68	74.00	-23.32	peak			
2	26244.998	22.70	16.50	39.20	54.00	-14.80	AVG			

**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.: LAN2014 #2299

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: Wi-Fi Dongle

Mode: TX 2452MHz

Model: TD-2021N-USB

Manufacturer: HUAWEI

Polarization: Horizontal

Power Source: DC 5V

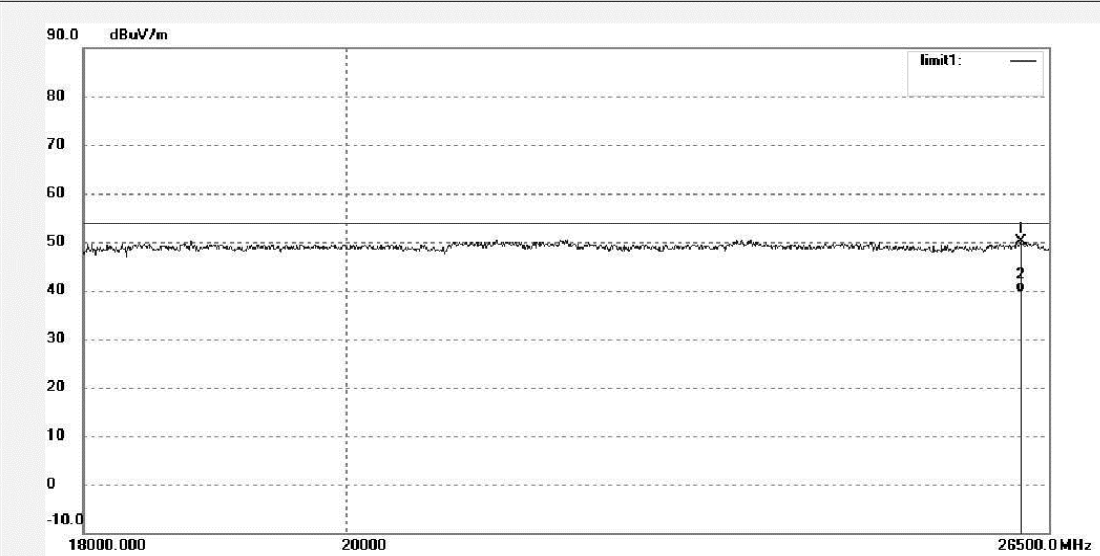
Date: 15/05/09/

Time:

Engineer Signature:

Distance: 3m

Note: 802.11n40



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	26204.426	33.64	16.50	50.14	74.00	-23.86	peak			
2	26204.426	23.20	16.50	39.70	54.00	-14.30	AVG			

Appendix C.5: Radiated emission in restricted band, 802.11b_1TX**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.: LAN2014 #2282

Standard: FCC (Band Edge)

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: Wi-Fi Dongle

Mode: TX 2412MHz

Model: TD-2021N-USB

Manufacturer: HUAWEI

Polarization: Vertical

Power Source: DC 5V

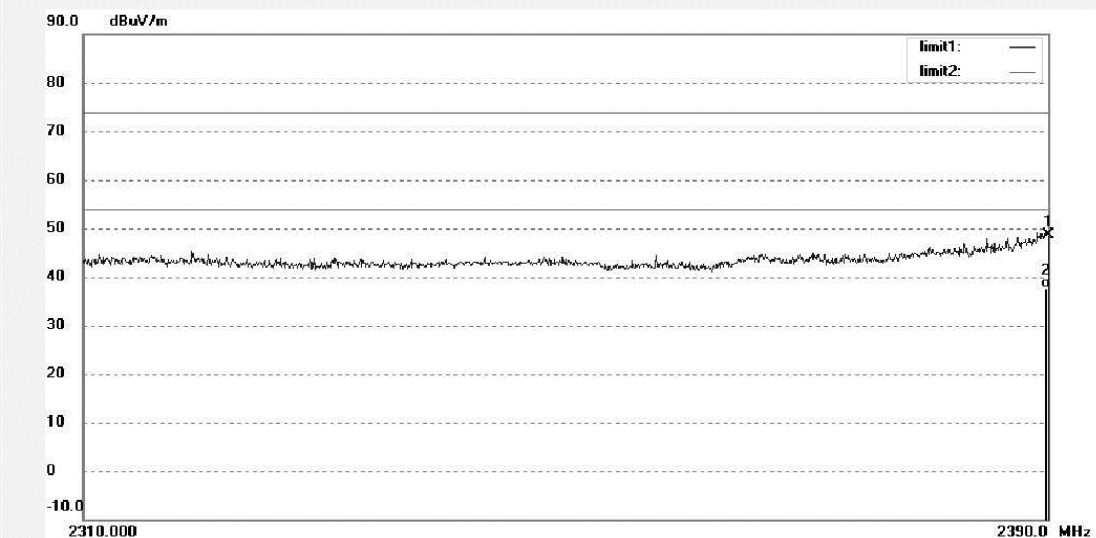
Date: 15/05/09/

Time:

Engineer Signature:

Distance: 3m

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	56.09	-7.53	48.56	74.00	-25.44	peak			
2	2390.000	45.25	-7.53	37.72	54.00	-16.28	AVG			



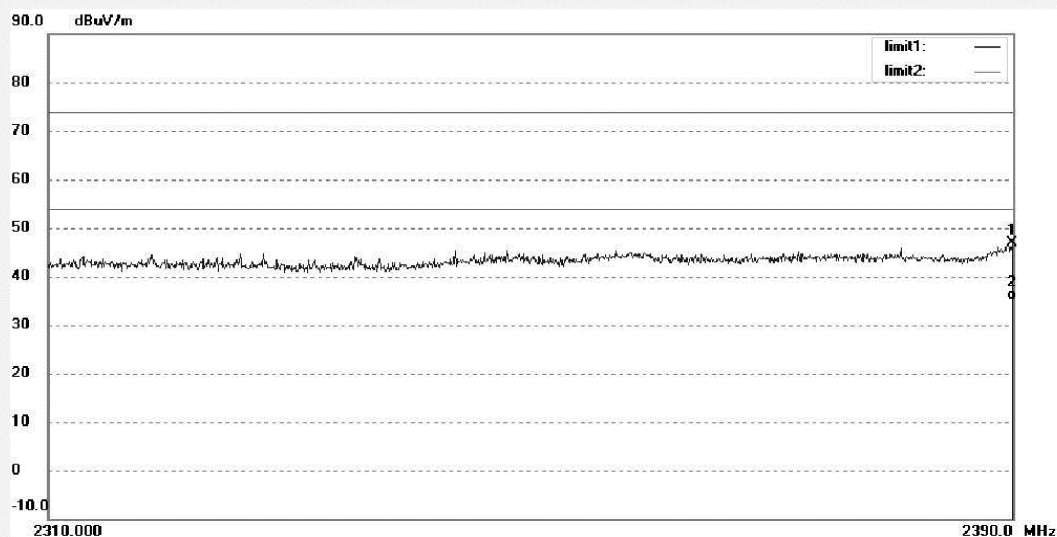
ACCURATE TECHNOLOGY CO., LTD.
F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

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

Job No.: LAN2014 #2283
Standard: FCC (Band Edge)
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: Wi-Fi Dongle
Mode: TX 2412MHz
Model: TD-2021N-USB
Manufacturer: HUAWEI

Polarization: Horizontal
Power Source: DC 5V
Date: 15/05/09/
Time:
Engineer Signature:
Distance: 3m

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	2389.920	54.39	-7.53	46.86	74.00	-27.14	peak			
2	2389.920	42.69	-7.53	35.16	54.00	-18.84	AVG			

**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.: LAN2014 #2284

Standard: FCC (Band Edge)

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: Wi-Fi Dongle

Mode: TX 2462MHz

Model: TD-2021N-USB

Manufacturer: HUAWEI

Polarization: Horizontal

Power Source: DC 5V

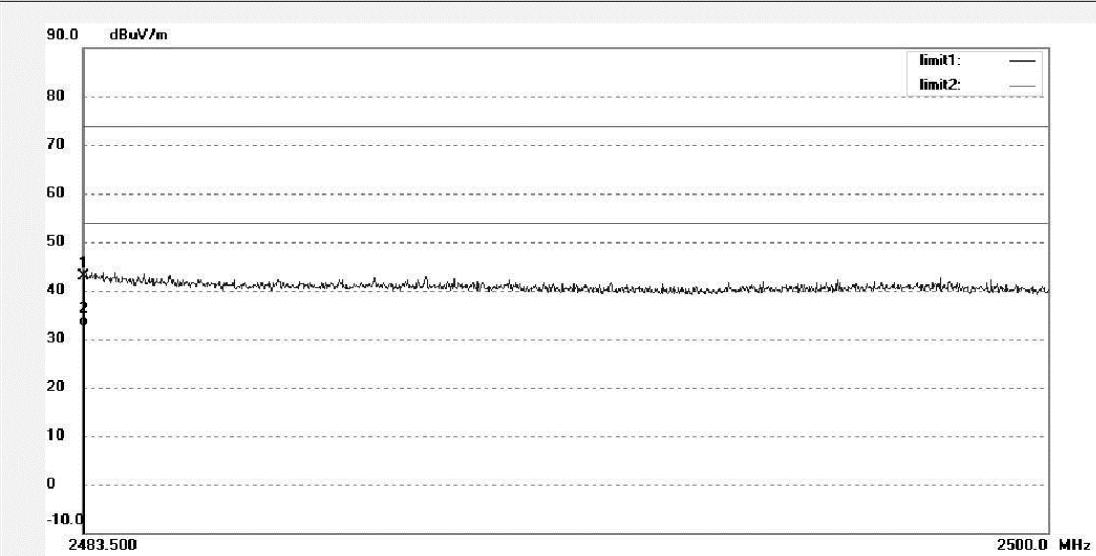
Date: 15/05/09/

Time:

Engineer Signature:

Distance: 3m

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	2483.500	50.17	-7.37	42.80	74.00	-31.20	peak			
2	2483.500	39.99	-7.37	32.62	54.00	-21.38	AVG			

**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.: LAN2014 #2285
 Standard: FCC (Band Edge)
 Test item: Radiation Test
 Temp.(C)/Hum.(%) 23 C / 48 %
 EUT: Wi-Fi Dongle
 Mode: TX 2462MHz
 Model: TD-2021N-USB
 Manufacturer: HUAWEI

Polarization: Vertical

Power Source: DC 5V

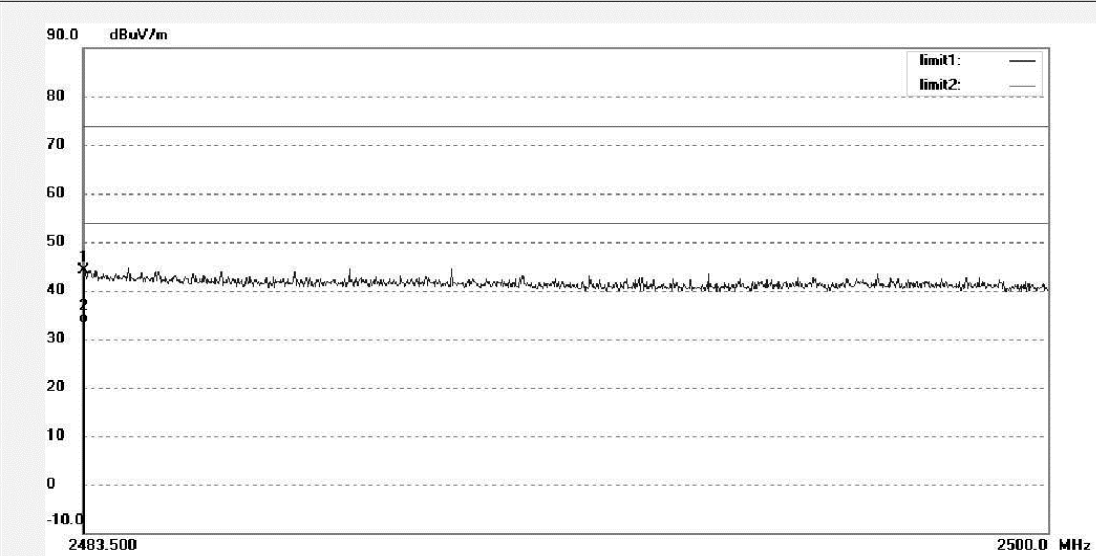
Date: 15/05/09/

Time:

Engineer Signature:

Distance: 3m

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	2483.500	51.54	-7.37	44.17	74.00	-29.83	peak			
2	2483.500	40.53	-7.37	33.16	54.00	-20.84	AVG			

Appendix C.6: Radiated emission in restricted band, 802.11g_1TX**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.: LAN2014 #2286

Standard: FCC (Band Edge)

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: Wi-Fi Dongle

Mode: TX 2412MHz

Model: TD-2021N-USB

Manufacturer: HUAWEI

Polarization: Vertical

Power Source: DC 5V

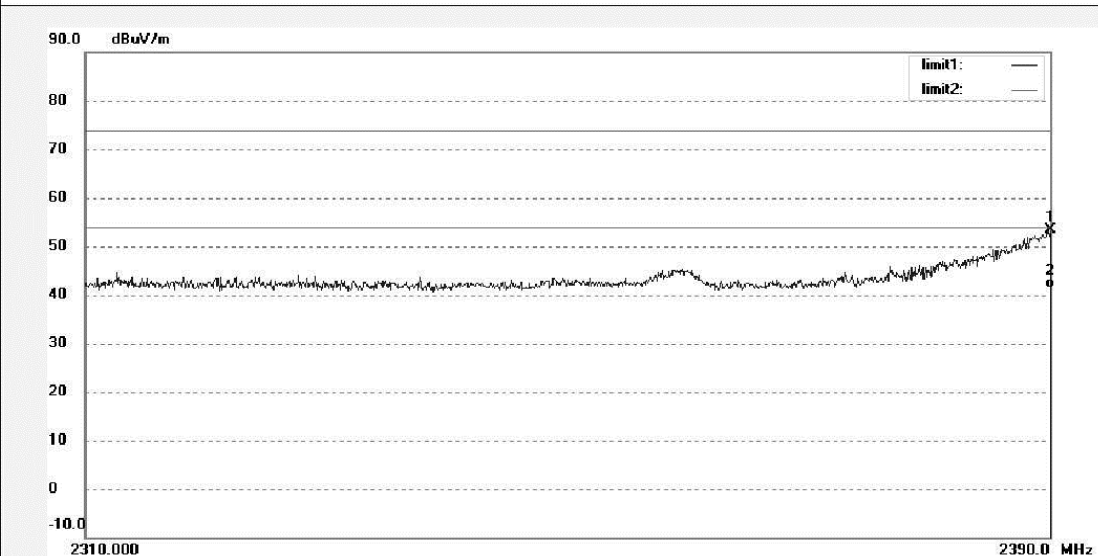
Date: 15/05/09/

Time:

Engineer Signature:

Distance: 3m

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	60.95	-7.53	53.42	74.00	-20.58	peak			
2	2390.000	48.86	-7.53	41.33	54.00	-12.67	AVG			

**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.: LAN2014 #2287

Standard: FCC (Band Edge)

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: Wi-Fi Dongle

Mode: TX 2412MHz

Model: TD-2021N-USB

Manufacturer: HUAWEI

Polarization: Horizontal

Power Source: DC 5V

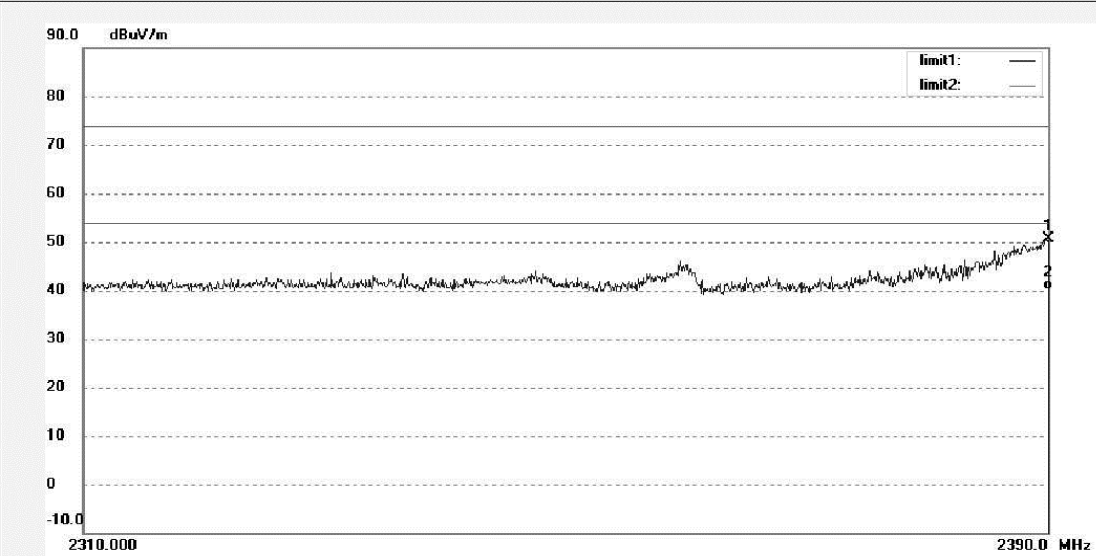
Date: 15/05/09/

Time:

Engineer Signature:

Distance: 3m

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	58.16	-7.53	50.63	74.00	-23.37	peak			
2	2390.000	47.55	-7.53	40.02	54.00	-13.98	AVG			



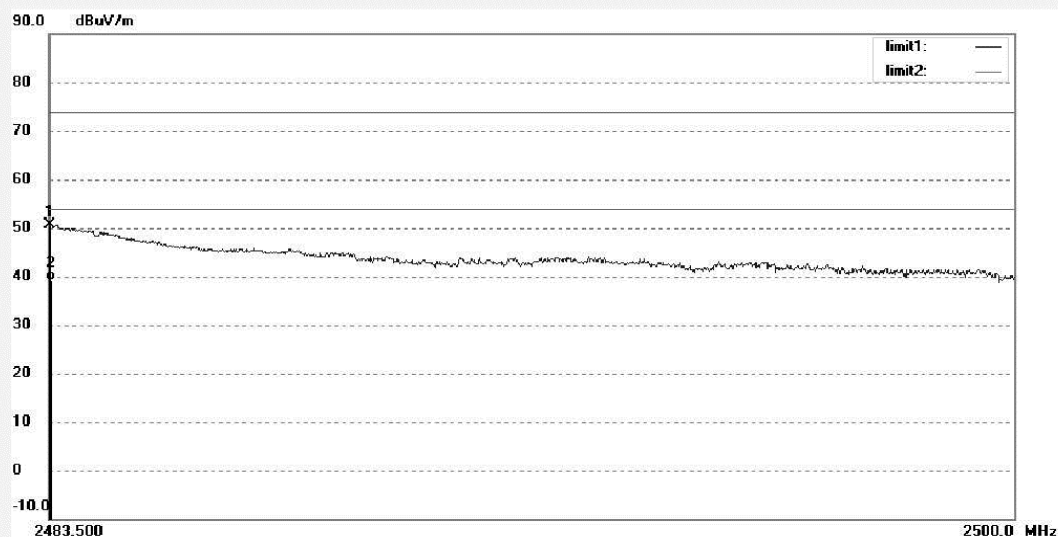
ACCURATE TECHNOLOGY CO., LTD.
F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

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

Job No.: LAN2014 #2288
Standard: FCC (Band Edge)
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: Wi-Fi Dongle
Mode: TX 2462MHz
Model: TD-2021N-USB
Manufacturer: HUAWEI

Polarization: Horizontal
Power Source: DC 5V
Date: 15/05/09/
Time:
Engineer Signature:
Distance: 3m

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	57.98	-7.37	50.61	74.00	-23.39	peak			
2	2483.500	46.42	-7.37	39.05	54.00	-14.95	AVG			

**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.: LAN2014 #2289

Standard: FCC (Band Edge)

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: Wi-Fi Dongle

Mode: TX 2462MHz

Model: TD-2021N-USB

Manufacturer: HUAWEI

Polarization: Vertical

Power Source: DC 5V

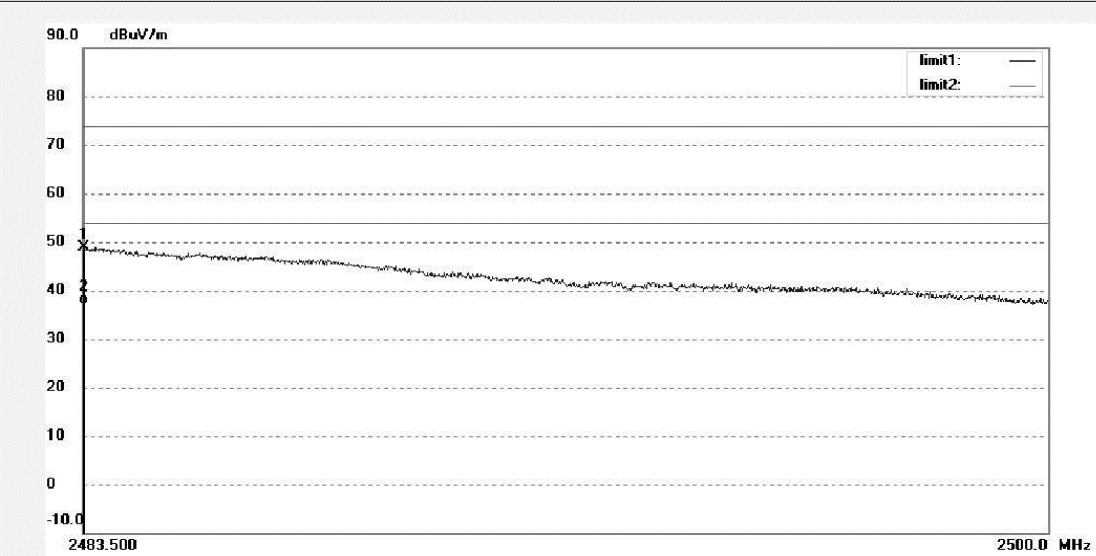
Date: 15/05/09/

Time:

Engineer Signature:

Distance: 3m

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	56.23	-7.37	48.86	74.00	-25.14	peak			
2	2483.500	44.62	-7.37	37.25	54.00	-16.75	AVG			

Appendix C.7: Radiated emission in restricted band, 802.11n HT20_1TX**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.: LAN2014 #2290

Standard: FCC (Band Edge)

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: Wi-Fi Dongle

Mode: TX 2412MHz

Model: TD-2021N-USB

Manufacturer: HUAWEI

Polarization: Horizontal

Power Source: DC 5V

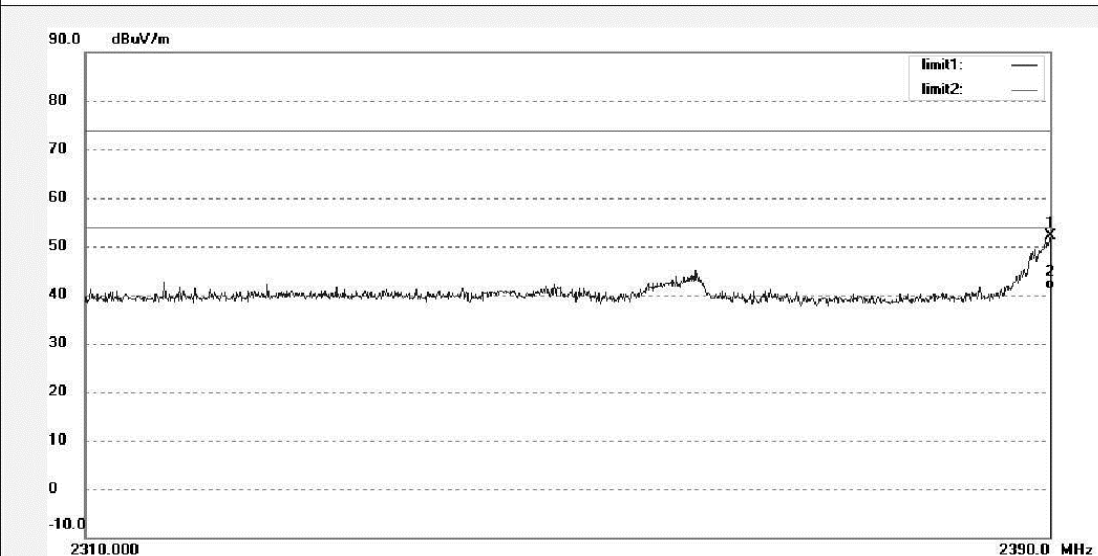
Date: 15/05/09/

Time:

Engineer Signature:

Distance: 3m

Note: 802.11n20



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	59.61	-7.53	52.08	74.00	-21.92	peak			
2	2390.000	48.56	-7.53	41.03	54.00	-12.97	AVG			

**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.: LAN2014 #2291

Standard: FCC (Band Edge)

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: Wi-Fi Dongle

Mode: TX 2412MHz

Model: TD-2021N-USB

Manufacturer: HUAWEI

Polarization: Vertical

Power Source: DC 5V

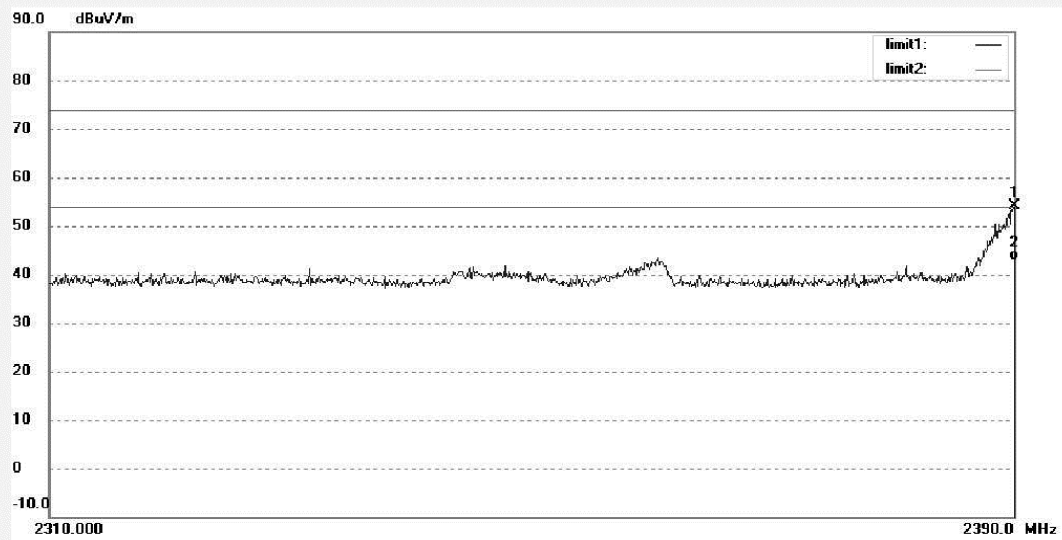
Date: 15/05/09/

Time:

Engineer Signature:

Distance: 3m

Note: 802.11n20



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	61.69	-7.53	54.16	74.00	-19.84	peak			
2	2390.000	50.44	-7.53	42.91	54.00	-11.09	AVG			



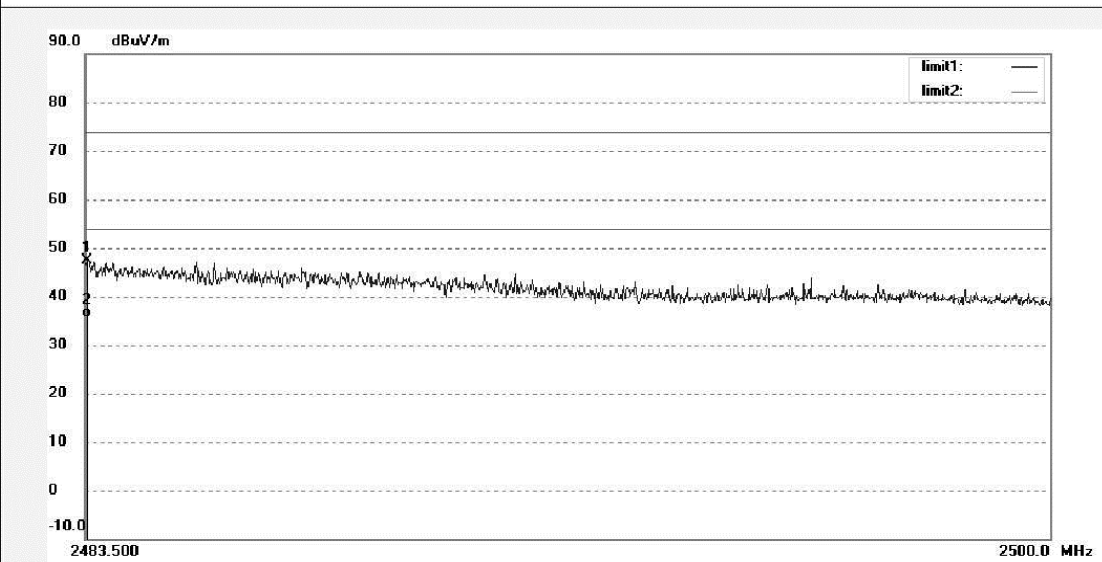
ACCURATE TECHNOLOGY CO., LTD.
F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

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

Job No.: LAN2014 #2292
Standard: FCC (Band Edge)
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: Wi-Fi Dongle
Mode: TX 2462MHz
Model: TD-2021N-USB
Manufacturer: HUAWEI

Polarization: Vertical
Power Source: DC 5V
Date: 15/05/09/
Time:
Engineer Signature:
Distance: 3m

Note: 802.11n20



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2483.533	54.73	-7.37	47.36	74.00	-26.64	peak			
2	2483.533	43.07	-7.37	35.70	54.00	-18.30	AVG			



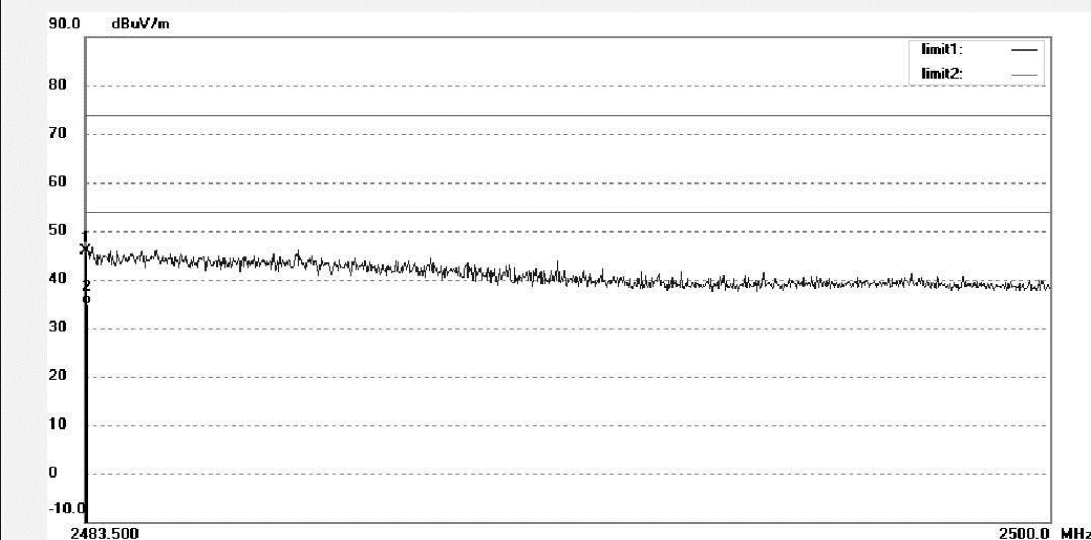
ACCURATE TECHNOLOGY CO., LTD.
F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

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

Job No.: LAN2014 #2293
Standard: FCC (Band Edge)
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: Wi-Fi Dongle
Mode: TX 2462MHz
Model: TD-2021N-USB
Manufacturer: HUAWEI

Polarization: Horizontal
Power Source: DC 5V
Date: 15/05/09/
Time:
Engineer Signature:
Distance: 3m

Note: 802.11n20



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	53.37	-7.37	46.00	74.00	-28.00	peak			
2	2483.500	42.35	-7.37	34.98	54.00	-19.02	AVG			

Appendix C.8: Radiated emission in restricted band, 802.11n HT40_1TX**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.: LAN2014 #2294

Standard: FCC (Band Edge)

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: Wi-Fi Dongle

Mode: TX 2422MHz

Model: TD-2021N-USB

Manufacturer: HUAWEI

Polarization: Vertical

Power Source: DC 5V

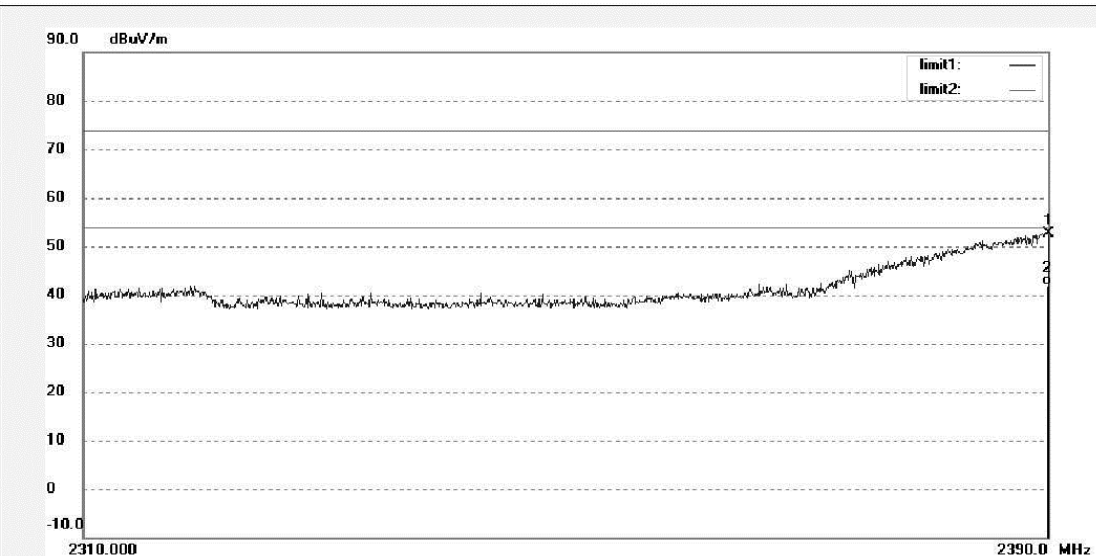
Date: 15/05/09/

Time:

Engineer Signature:

Distance: 3m

Note: 802.11n40



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	60.06	-7.53	52.53	74.00	-21.47	peak			
2	2390.000	49.35	-7.53	41.82	54.00	-12.18	AVG			

**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.: LAN2014 #2295

Standard: FCC (Band Edge)

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: Wi-Fi Dongle

Mode: TX 2422MHz

Model: TD-2021N-USB

Manufacturer: HUAWEI

Polarization: Horizontal

Power Source: DC 5V

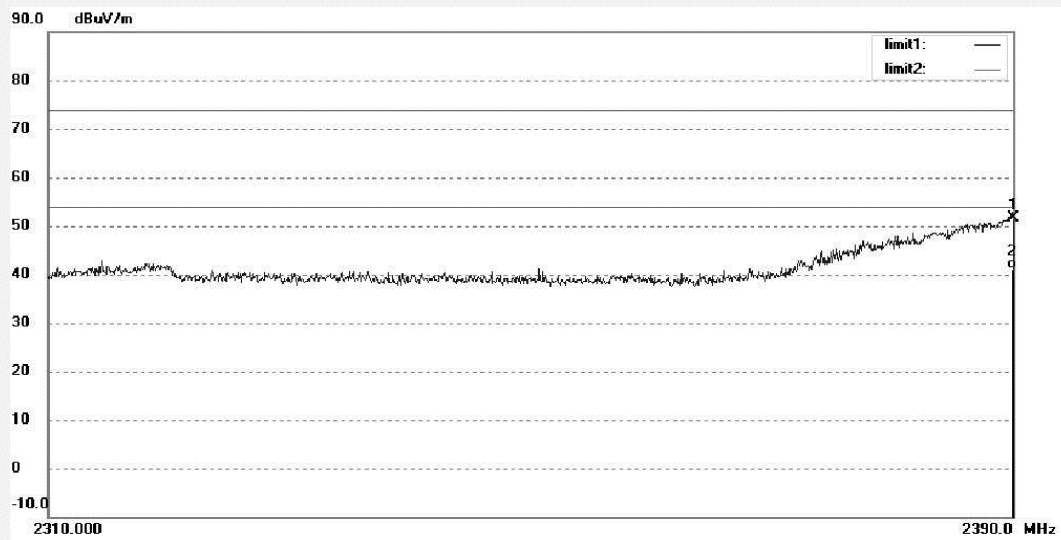
Date: 15/05/09/

Time:

Engineer Signature:

Distance: 3m

Note: 802.11n40



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	59.18	-7.53	51.65	74.00	-22.35	peak			
2	2390.000	48.55	-7.53	41.02	54.00	-12.98	AVG			

**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.: LAN2014 #2296

Standard: FCC (Band Edge)

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: Wi-Fi Dongle

Mode: TX 2452MHz

Model: TD-2021N-USB

Manufacturer: HUAWEI

Polarization: Horizontal

Power Source: DC 5V

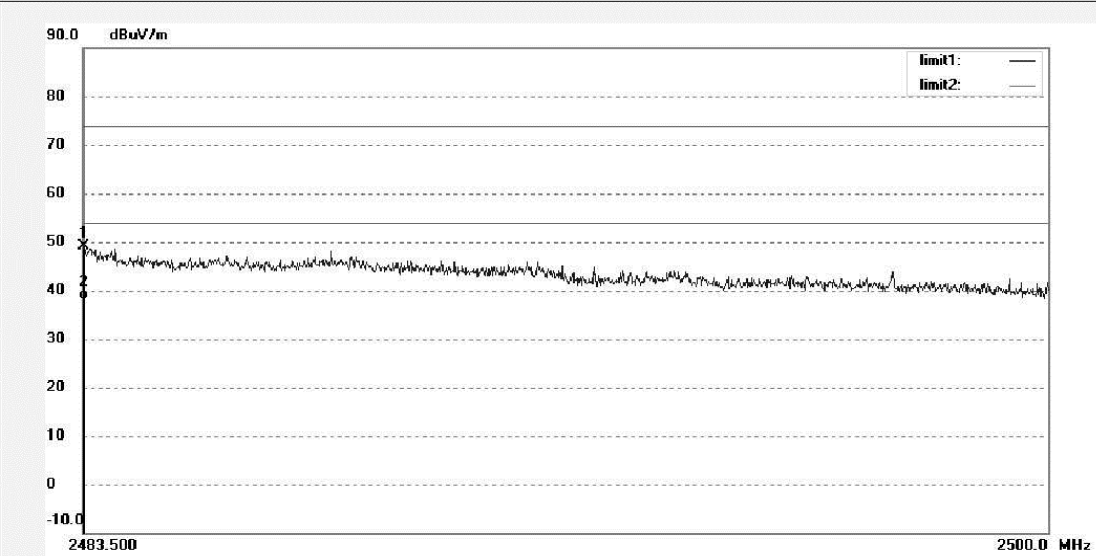
Date: 15/05/09/

Time:

Engineer Signature:

Distance: 3m

Note: 802.11n40



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	56.62	-7.37	49.25	74.00	-24.75	peak			
2	2483.500	45.60	-7.37	38.23	54.00	-15.77	AVG			

**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.: LAN2014 #2297

Standard: FCC (Band Edge)

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: Wi-Fi Dongle

Mode: TX 2452MHz

Model: TD-2021N-USB

Manufacturer: HUAWEI

Polarization: Vertical

Power Source: DC 5V

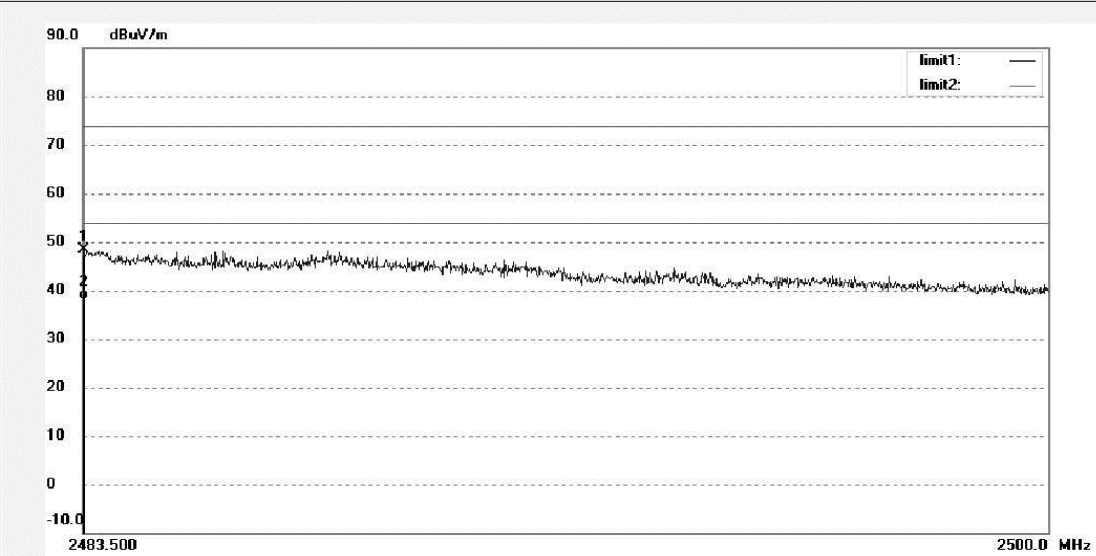
Date: 15/05/09/

Time:

Engineer Signature:

Distance: 3m

Note: 802.11n40



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	55.74	-7.37	48.37	74.00	-25.63	peak			
2	2483.500	45.47	-7.37	38.10	54.00	-15.90	AVG			

Appendix G

Test Results of Conducted Emissions

APPENDIX D.1: TEST RESULTS OF CONDUCTED EMISSIONS.....	2
--	---

Appendix D.1: Test Results of Conducted Emissions

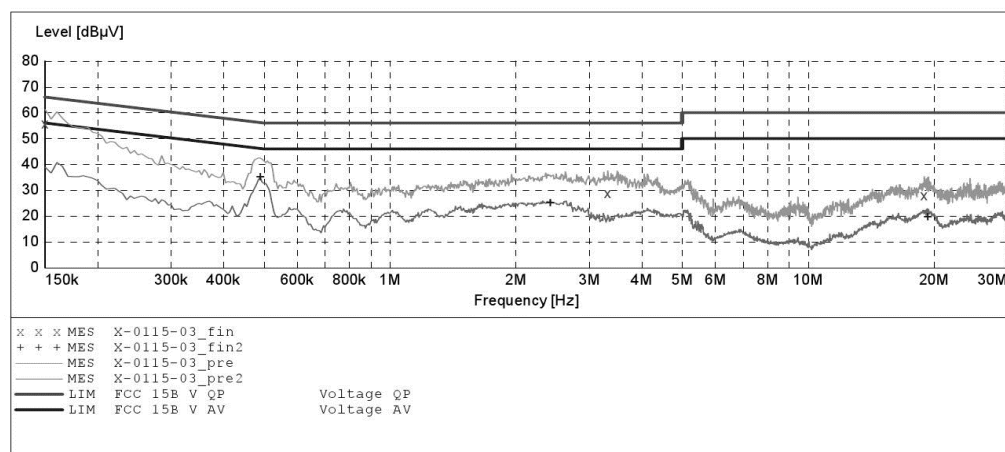
ACCURATE TECHNOLOGY CO., LTD

CONDUCTED EMISSION STANDARD FCC PART 15 B

EUT: Wi-Fi Dongle M/N:TD-2021N-USB
 Manufacturer: HUAWEI
 Operating Condition: On
 Test Site: 1#Shielding Room
 Operator: LAN
 Test Specification: N 120V/60Hz
 Comment:
 Start of Test: 1/15/2015 /

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: "X-0115-03_fin"

1/15/2015	Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
	0.150000	55.60	10.5	66	10.4	QP	N	GND
	3.320000	28.80	11.1	56	27.2	QP	N	GND
	18.950000	27.80	11.4	60	32.2	QP	N	GND

MEASUREMENT RESULT: "X-0115-03_fin2"

1/15/2015	Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
	0.490000	35.00	10.7	46	11.2	AV	N	GND
	2.420000	25.00	11.0	46	21.0	AV	N	GND
	19.325000	19.70	11.4	50	30.3	AV	N	GND

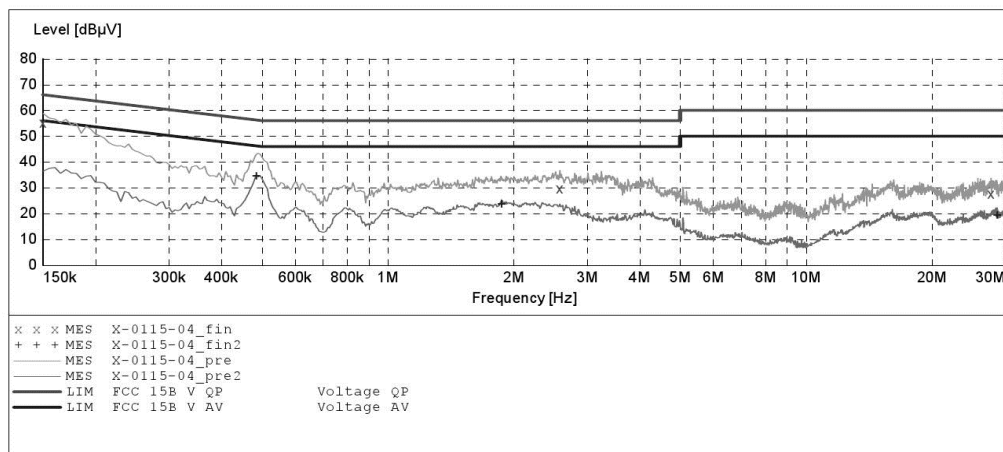
ACCURATE TECHNOLOGY CO., LTD

CONDUCTED EMISSION STANDARD FCC PART 15 B

EUT: Wi-Fi Dongle M/N:TD-2021N-USB
 Manufacturer: HUAWEI
 Operating Condition: On
 Test Site: 1#Shielding Room
 Operator: LAN
 Test Specification: L 120V/60Hz
 Comment:
 Start of Test: 1/15/2015 /

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: "X-0115-04_fin"

1/15/2015	Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
	0.150000	55.00	10.5	66	11.0	QP	L1	GND
	2.580000	29.60	11.0	56	26.4	QP	L1	GND
	27.700000	27.50	11.5	60	32.5	QP	L1	GND

MEASUREMENT RESULT: "X-0115-04_fin2"

1/15/2015	Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
	0.485000	34.30	10.7	46	12.0	AV	L1	GND
	1.870000	23.50	11.0	46	22.5	AV	L1	GND
	28.625000	19.30	11.5	50	30.7	AV	L1	GND

Appendix E

Test Results of RF Exposure

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

Appendix E.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

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

Where

Pd = power density in mW/cm² or W/m²

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 = 16.30dBm = 42.66mW

G = 1.5dBi = 1.41 (numeric)

R = 20cm

For Wi-Fi operation:

$$Pd = \frac{P_{out} * G}{4R^2\pi} = \frac{42.66 * 1.41}{4 * 20^2 * 3.14159} = 0.0120mW / cm^2 < 1mW/cm^2 \text{ for FCC limit}$$

$$Pd = \frac{P_{out} * G}{4R^2\pi} = \frac{0.04266 * 1.41}{4 * 0.2^2 * 3.14159} = 0.120W / m^2 < 5.4W/m^2 \text{ for IC limit}$$

The summed maximum permissible exposure (MPE) level is 0.0120mW/cm² and 0.120W/m². It is less than MPE limit 1mW/cm² for FCC and 5.4W/m² for IC, therefore the device compliance with MPE limit.