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Report No.: WSCT-ANAB-R&E241200075A-Wi-Fi1



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ADD: Building A-B, Baoli'an Industrial Park, No.58 and 60, Tangtou Avenue, Shiyan Street, Bao'an District, Shenzhen City, Guangdong Province, China.

FAX: 0086-755-86376605

TEL: 0086-755-26996192 26996053 26996144

深圳世标检测认证股份有限公司

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150/16/17/03/15
TESTING LABORATORY

Report No.: WSCT-ANAB-R&E241200075A-Wi-Fi1



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深圳世标检测认证股份有限公司
World Standard zation Certification& Testing Group(Shenzhen) Co.,Ltd





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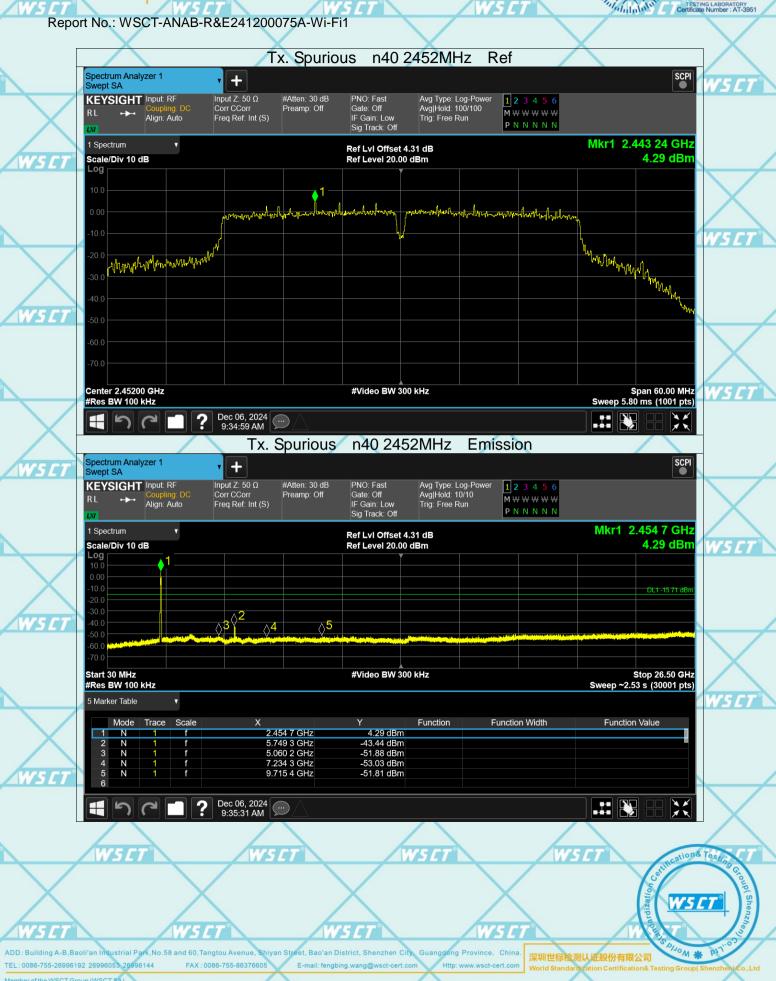
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6.6. Radiated Spurious Emission Measurement

Test Requirement:	FCC Part15 C Section 15.209
Test Method: 5 [7]	ANSI C63.10: 2014 W5 [7] W5 [7]
Frequency Range:	9 kHz to 25 GHz
Measurement Distance:	3 m

Antenna Polarization: V5 / Horizontal & Vertical

Receiver Setup:	
WSCT	W5

	Frequency	Detector	RBW	VBW	Remark
	9kHz- 150kHz	Quasi-peak	200Hz	1kHz	Quasi-peak Value
	150kHz- 30MHz	Quasi-peak	9kHz	30kHz	Quasi-peak Value
	30MHz-1GHz	Quasi-peak	100KHz	300KHz	Quasi-peak Value
	A h 4 O L I	Peak	1MHz	3MHz	Peak Value
1	Above 1GHz	Peak	1MHz	10Hz	Average Value

W5CT

X	X	Frequency	
		0.009-0.490	
SCT 1	W5 CT	0.490-1.705	1
		1.705-30	
	X	30-88	
		88-216	
	Limit:	216-960	

Fraguenay	Fleid Strength	Measurement		
Frequency	(microvolts/meter)	Distance (meters)		
0.009-0.490	2400/F(KHz)	300		
0.490-1.705	24000/F(KHz)	30-5-7		
1.705-30	30	30		
30-88	100	3		
88-216	150	3		
216-960	200	3		
Above 960	500	3		

Frequency Field Strength (microvolts/meter)		Measurement Distance (meters)	
About 4CH	500	3	Average
Above 1GHz	5000	3	Peak

For radiated emissions below 30MHz

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Test setup:

W5E

Computer Pre -Amplifier EUT Ground Plane

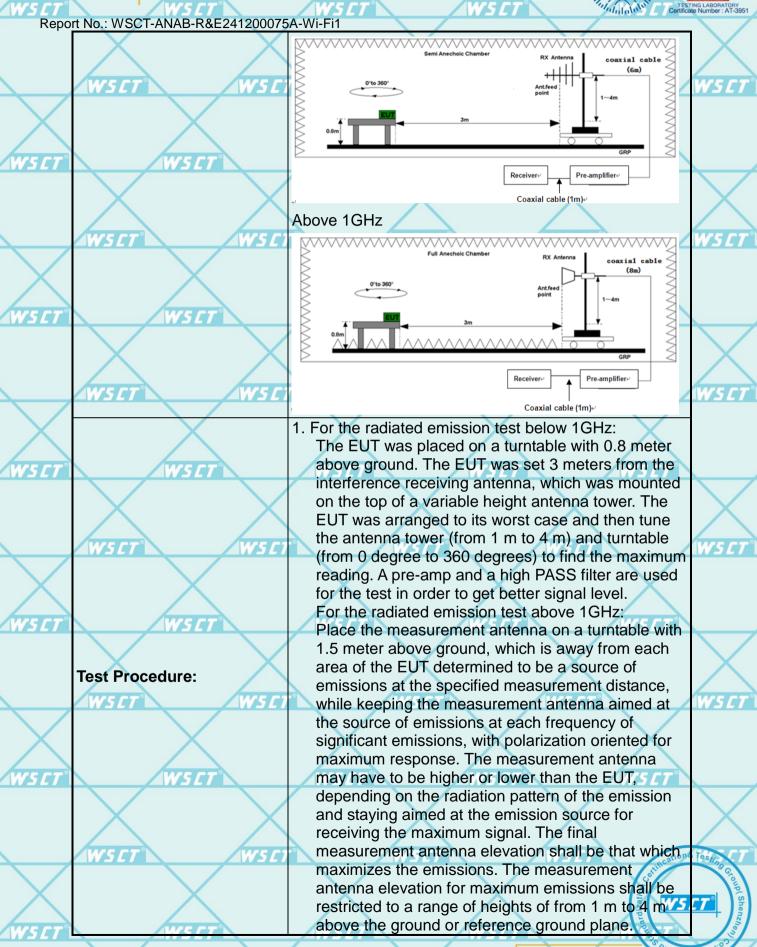
30MHz to 1GHz

W5C1

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Repo	ort No.: WSCT-ANAB-R&E241200075	5A-Wi-Fi1	
-1	X	Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level	X
	WSET WSET	4. For measurement below 1GHz, If the emission level	W5 CT
		of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission	
		level will be reported. Otherwise, the emission	
WSCT	WSET	measurement will be repeated using the quasi-peak	
71774	WEIGH	detector and reported.	
		5. Use the following spectrum analyzer settings:	
		(1) Span shall wide enough to fully capture the	
		emission being measured;	
	WSCT WSCT	(2) Set RBW=100 kHz for f < 1 GHz; VBW ≥RBW;	W5CT"
		Sweep = auto; Detector function = peak; Trace =	
		max hold;	
WSET	WSCT	(3) Set RBW = 1 MHz, VBW= 3MHz for f 1 GHz	
		for peak measurement.	
	\times	For average measurement: VBW = 10 Hz, when	\sim
		duty cycle is no less than 98 percent. VBW ≥ 1/T,	
	WSCT WSCI	when duty cycle is less than 98 percent where T is	WSET"
		the minimum transmission duration over which the	
X	X	transmitter is on and is transmitting at its maximum	
		power control level for the tested mode of operation.	
WSET	Test results: V5 [T]	PASS5CT W5CT W5CT	
			\/
Ne	ote 1: The symbol of "" in the tal	ble which means not application.	X
N.I.			

For the test data above 1 GHz, According the ANSI C63.10-2013, where limits are specified for Note 2:

both average and peak (or quasi-peak) detector functions, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement.

The low frequency, which started from 9 kHz to 30 MHz, was pre-scanned and the result which Note 3:

was 20 dB lower than the limit line per 15.31(o) was not reported.

The EUT is working in the Normal link mode below 1 GHz. All modes have been tested and Note 4: normal link mode is worst.

	W5ET°	WSET	WSET	W5 ET	WSET
				/	\
					\wedge
W5 CT	WSC	W 5	ET" W	'S CT'	15 CT





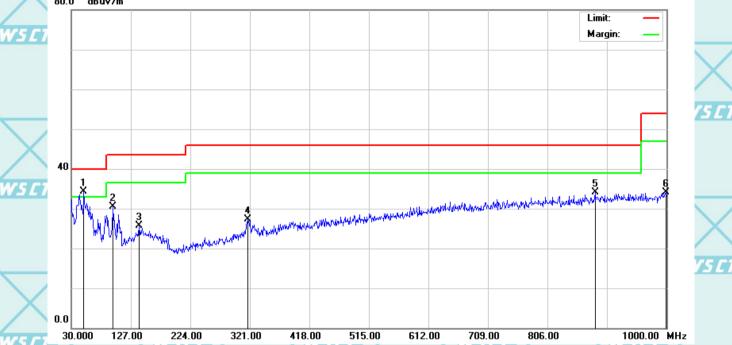


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6.6.2. Test Data(worst)







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11/1/1	W mir mili

	No.	Mk.	Freq.	Level	Factor	ment	Limit	Over	T
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
<	1	*	50.3700	36.35	-2.14	34.21	40.00	-5.79	QP _
	2	4	97.9000	36.23	-5.68	30.55	43.50	-12.95	QP
	/3		140.5800	28.00	-2.26	25.74	43.50	-17.76	QP
4	4	;	318.0900	29.25	-1.97	27.28	46.00	-18.72	QP
	7.5	4	883.6000	26.83	7.34	34.17	46.00	-11.83	QP
	6	(999.0300	25.59	8.44	34.03	54.00	-19.97	QP

Doading Correct Measure

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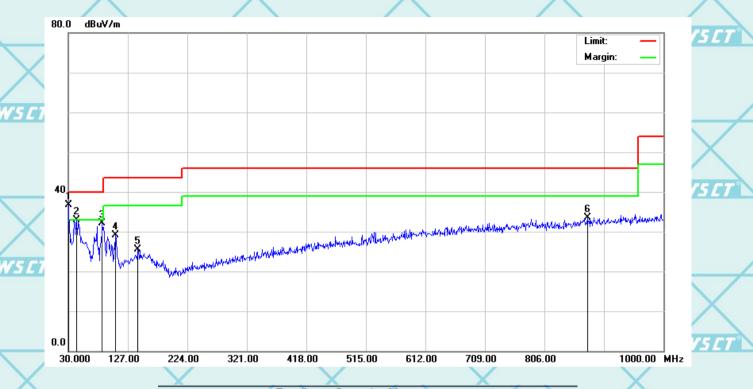
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Report No.: WSCT-ANAB-R&E241200075A-Wi-Fi1

Vertical:



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	The same
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1	*_	30.0000	39.28	-2.60	36.68	40.00	-3.32	QP
2	Δï	43.5799	34.72	-1.88	32.84	40.00	-7.16	QP
3		85.2900	38.36	-6.22	32.14	40.00	-7.86	QP
4		106.6299	34.07	-4.90	29.17	43.50	-14.33	QP
5.45	1	143.4900	27.54	-2.12	25.42	43.50	-18.08	QP
6		875.8400	26.30	7.25	33.55	46.00	-12.45	QP

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Note1:

W5C1

Freq. = Emission frequency in MHz

Reading level (dBµV) = Receiver reading

Corr. Factor (dB) = Antenna factor + Cable loss - Amplifier factor.

Measurement $(dB\mu V)$ = Reading level $(dB\mu V)$ + Corr. Factor (dB)

Limit (dBµV) = Limit stated in standard

Margin (dB) = Measurement (dB μ V) – Limits (dB μ V)

lding A-B,Baoli'an Industrial Park,No.58 and 60,Tangtou Aver

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Report No.: WSCT-ANAB-R&E241200075A-Wi-Fi1

Above 1GHz

Note 1: The marked spikes near 2400 MHz with circle should be ignored because they are Fundamental

W5 CT

signal.

Note 2: The spurious above 18G is noise only, do not show on the report.

Note 3: Report and only recorded the worst-case scenario 802.11b.

1 GHz to 18 GHz, ANT H 802.11b Low Channel

Horizontal:

NSE

W5 E



												١
	Suspu	ited Data Lis	st									
	NO.	Freq. [MHz]	Reading [dB(uV)]	Factor [dB]	Level [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict	
L	1	2461.2500	46.4	7.78	38.62	74	-27.6	286.2	Horizontal	PK	Pass	ı
	1	2461.2500	36.53	7.78	28.75	54	-17.47	286.2	Horizontal	AV	Pass	١
	1	2461.2500	46.4	7.78	38.62	74	-27.6	286.2	Horizontal	QP	Pass	
	2	3781.2500	50.17	10.89	39.28	74	-23.83	334.1	Horizontal	PK	Pass	
	2	3781.2500	39.9	10.89	29.01	54	-14.1	334.1	Horizontal	AV	Pass	
	2	3781.2500	50.17	10.89	39.28	74	-23.83	334.1	Horizontal	QP	Pass	١
/	3	5771.8750	64.29	20.99	43.3	74	-9.71	118.9	Horizontal	PK	Pass	
	3	5771.8750	47.01	20.99	26.02	54	-6.99	118.9	Horizontal	AV	Pass	
	3	5771.8750	64.29	20.99	43.3	74	-9.71	118.9	Horizontal	QP	Pass	
Z	4	11454.0000	45.83	39.09	6.74	74	-28.17	302.2	Horizontal	PK	Pass	
	4	11454.0000	37.6	39.09	-1.49	54	-16.4	302.2	Horizontal	AV	Pass	
	4	11454.0000	45.83	39.09	6.74	74	-28.17	302.2	Horizontal	QP	Pass	
	5	14047.5000	49.06	41.44	7.62	74	-24.94	0	Horizontal	PK	Pass	
	5	14047.5000	41.69	41.44	0.25	54	-12.31	0	Horizontal	AV	Pass	
	5	14047.5000	49.06	41.44	7.62	74	-24.94	0	Horizontal	QP	Pass	١
1	6	17949.0000	52.9	46.16	6.74	74	-21.1	0	Horizontal	PK	Pass	
	6	17949.0000	45.68	46.16	-0.48	54	-8.32	0	Horizontal	AV	Pass	

74

-21.1

W5 C1

17949.0000

NS ET

46.16

W5 C1

W5 E1

Horizontal

Pass

52.9

6.74

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QP

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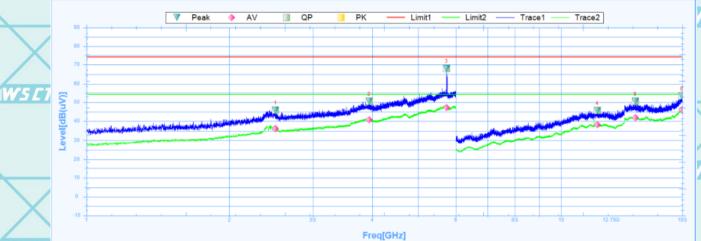


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Vertical:



W5 C

	Suspu	ited Data Lis	st									
	NO.	Freq. [MHz]	Reading [dB(uV)]	Factor [dB]	Level [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict	
	1	2498.7500	45.93	7.42	38.51	74	-28.07	227.7	Vertical	PK	Pass	17
	1	2498.7500	36.23	7.42	28.81	54	-17.77	227.7	Vertical	AV	Pass	-
/	1	2498.7500	45.93	7.42	38.51	74	-28.07	227.7	Vertical	QP	Pass	
	2	3938.7500	50.59	11.91	38.68	74	-23.41	32.8	Vertical	PK	Pass	
	2	3938.7500	40.82	11.91	28.91	54	-13.18	32.8	Vertical	AV	Pass	
	2	3938.7500	50.59	11.91	38.68	74	-23.41	32.8	Vertical	QP	Pass	
	3	5736.8750	68.06	21.2	46.86	74	-5.94	123.7	Vertical	PK	Pass	
	3	5736.8750	47.17	21.2	25.97	54	-6.83	123.7	Vertical	AV	Pass	
	3	5736.8750	68.06	21.2	46.86	74	-5.94	123.7	Vertical	QP	Pass	
	4	11916.0000	45.73	38.68	7.05	74	-28.27	126.4	Vertical	PK	Pass	17
	4	11916.0000	38.14	38.68	-0.54	54	-15.86	126.4	Vertical	AV	Pass	#
/	4	11916.0000	45.73	38.68	7.05	74	-28.27	126.4	Vertical	QP	Pass	
	5	14328.0000	50.56	41.07	9.49	74	-23.44	116.9	Vertical	PK	Pass	
	5	14328.0000	41.9	41.07	0.83	54	-12.1	116.9	Vertical	AV	Pass	
51	5	14328.0000	50.56	41.07	9.49	74	-23.44	116.9	Vertical	QP	Pass	
	6	17958.0000	53.45	46.22	7.23	74	-20.55	295	Vertical	PK	Pass	
	6	17958.0000	46.22	46.22	0	54	-7.78	295	Vertical	AV	Pass	
	6	17958.0000	53.45	46.22	7.23	74	-20.55	295	Vertical	QP	Pass	/

W5 CT

WS CT IWS CT W5CT

W5C1

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W5 ET





Report No.: WSCT-ANAB-R&E241200075A-Wi-Fi1

1 GHz to 18 GHz, ANT H 802.11b Middle Channel

Horizontal: 15 CI ▼ Peak Limit1 Limit2 Trace2 Trace1 W5C W5 C

Freq[GHz]

W5 CT

	Suspu	ıted Data Lis	st								
	NO.	Freq. [MHz]	Reading [dB(uV)]	Factor [dB]	Level [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
	1	2401.2500	46.1	7.57	38.53	74	-27.9	360.1	Horizontal	PK	Pass
/	1	2401.2500	37.71	7.57	30.14	54	-16.29	360.1	Horizontal	AV	Pass
	1	2401.2500	46.1	7.57	38.53	74	-27.9	360.1	Horizontal	QP	Pass
	2	3868.7500	49.15	11.47	37.68	74	-24.85	129.6	Horizontal	PK	Pass
Ż	2	3868.7500	40.61	11.47	29.14	54	-13.39	129.6	Horizontal	AV	Pass
	2	3868.7500	49.15	11.47	37.68	74	-24.85	129.6	Horizontal	QP	Pass
	3	5750.0000	56.23	21.12	35.11	74	-17.77	360.1	Horizontal	PK	Pass
	3	5750.0000	47.32	21.12	26.2	54	-6.68	360.1	Horizontal	AV	Pass
	3	5750.0000	56.23	21.12	35.11	74	-17.77	360.1	Horizontal	QP	Pass
	4	11058.0000	45.14	39.45	5.69	74	-28.86	36.8	Horizontal	PK	Pass
/	4	11058.0000	37.61	39.45	-1.84	54	-16.39	36.8	Horizontal	AV	Pass
	4	11058.0000	45.14	39.45	5.69	74	-28.86	36.8	Horizontal	QP	Pass
	5	14200.5000	49.2	41.24	7.96	74	-24.8	64.3	Horizontal	PK	Pass
7	5	14200.5000	41.38	41.24	0.14	54	-12.62	64.3	Horizontal	AV	Pass
	5	14200.5000	49.2	41.24	7.96	74	-24.8	64.3	Horizontal	QP	Pass
	6	17973.0000	52.77	46.32	6.45	74	-21.23	36.8	Horizontal	PK	Pass
	6	17973.0000	46.59	46.32	0.27	54	-7.41	36.8	Horizontal	AV	Pass
	6	17973.0000	52.77	46.32	6.45	74	-21.23	36.8	Horizontal	QP	Pass

W5 CT WS ET WS CT W5 E1

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W5 CT

W5 L

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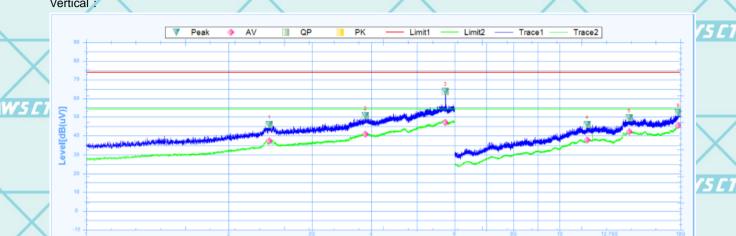
W5 CT





Report No.: WSCT-ANAB-R&E241200075A-Wi-Fi1

Vertical:



Freq[GHz]

W5CT°

W5 CT

W5 C

W5 C

7	Suspu	ited Data Lis	st									
	NO.	Freq. [MHz]	Reading [dB(uV)]	Factor [dB]	Level [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict	
	1	2437.5000	45.84	7.7	38.14	74	-28.16	170.3	Vertical	PK	Pass	74
	1	2437.5000	37.26	7.7	29.56	54	-16.74	170.3	Vertical	AV	Pass	_
/	1	2437.5000	45.84	7.7	38.14	74	-28.16	170.3	Vertical	QP	Pass	
	2	3888.1250	50.54	11.63	38.91	74	-23.46	337.6	Vertical	PK	Pass	
	2	3888.1250	40.78	11.63	29.15	54	-13.22	337.6	Vertical	AV	Pass	
9	2	3888.1250	50.54	11.63	38.91	74	-23.46	337.6	Vertical	QP	Pass	
	3	5737.5000	63.88	21.19	42.69	74	-10.12	113	Vertical	PK	Pass	
	3	5737.5000	47	21.19	25.81	54	-7	113	Vertical	AV	Pass	
	3	5737.5000	63.88	21.19	42.69	74	-10.12	113	Vertical	QP	Pass	
	4	11428.5000	45.96	39.11	6.85	74	-28.04	354	Vertical	PK	Pass	7
	4	11428.5000	37.68	39.11	-1.43	54	-16.32	354	Vertical	AV	Pass	4
/	4	11428.5000	45.96	39.11	6.85	74	-28.04	354	Vertical	QP	Pass	
	5	14020.5000	49.51	41.47	8.04	74	-24.49	152.7	Vertical	PK	Pass	
1	5	14020.5000	42.16	41.47	0.69	54	-11.84	152.7	Vertical	AV	Pass	
4	5	14020.5000	49.51	41.47	8.04	74	-24.49	152.7	Vertical	QP	Pass	
	6	17820.0000	52.27	45.29	6.98	74	-21.73	349.4	Vertical	PK	Pass	
	6	17820.0000	45.55	45.29	0.26	54	-8.45	349.4	Vertical	AV	Pass	
	6	17820.0000	52.27	45.29	6.98	74	-21.73	349.4	Vertical	QP	Pass	1

W5 C

W5 CT W5 CT W5 CT W5 C1

W5 CT

W5 CT

W5 CT

WS CT

W5 E1

ADD: Building A-B, Baoli'an Industrial Park, No. 58 and 60, Tangtou Avenue 深圳世标检测认证股份有限公司 FAX: 0086-755-86376605

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Report No.: WSCT-ANAB-R&E241200075A-Wi-Fi1

1 GHz to 18 GHz, ANT H 802.11b High Channel

Horizontal:



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	Suspu	ıted Data Lis	t								
	NO.	Freq. [MHz]	Reading [dB(uV)]	Factor [dB]	Level [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
	1	2446.8750	46.78	7.73	39.05	74	-27.22	58.5	Horizontal	PK	Pass
/	1	2446.8750	37.5	7.73	29.77	54	-16.5	58.5	Horizontal	AV	Pass
/	1	2446.8750	46.78	7.73	39.05	74	-27.22	58.5	Horizontal	QP	Pass
	2	3794.3750	49.47	10.97	38.5	74	-24.53	247.4	Horizontal	PK	Pass
57	2	3794.3750	40.41	10.97	29.44	54	-13.59	247.4	Horizontal	AV	Pass
	2	3794.3750	49.47	10.97	38.5	74	-24.53	247.4	Horizontal	QP	Pass
	3	5916.8750	56.84	21.79	35.05	74	-17.16	168.5	Horizontal	PK	Pass
	3	5916.8750	47.38	21.79	25.59	54	-6.62	168.5	Horizontal	AV	Pass
	3	5916.8750	56.84	21.79	35.05	74	-17.16	168.5	Horizontal	QP	Pass
	4	11509.5000	45.68	39.04	6.64	74	-28.32	185.8	Horizontal	PK	Pass
/	4	11509.5000	37.29	39.04	-1.75	54	-16.71	185.8	Horizontal	AV	Pass
	4	11509.5000	45.68	39.04	6.64	74	-28.32	185.8	Horizontal	QP	Pass
	5	14074.5000	50.47	41.4	9.07	74	-23.53	320.9	Horizontal	PK	Pass
C 1	5	14074.5000	41.78	41.4	0.38	54	-12.22	320.9	Horizontal	AV	Pass
	5	14074.5000	50.47	41.4	9.07	74	-23.53	320.9	Horizontal	QP	Pass
	6	17931.0000	53.09	46.04	7.05	74	-20.91	224	Horizontal	PK	Pass
	6	17931.0000	45.84	46.04	-0.2	54	-8.16	224	Horizontal	AV	Pass
	6	17931.0000	53.09	46.04	7.05	74	-20.91	224	Horizontal	QP	Pass

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深圳世标检测认证股份有限公司
World Standard Zation Certification & Testing Group(Shenzhen) Co.,Ltr

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Vertical: Trace2 Freq[GHz]

	Suspu	ited Data Lis	st									
	NO.	Freq. [MHz]	Reading [dB(uV)]	Factor [dB]	Level [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict	
	1	2479.3750	45.55	7.84	37.71	74	-28.45	182.6	Vertical	PK	Pass	-
/	1	2479.3750	36.77	7.84	28.93	54	-17.23	182.6	Vertical	AV	Pass	
	1	2479.3750	45.55	7.84	37.71	74	-28.45	182.6	Vertical	QP	Pass	
	2	3885.6250	49.69	11.62	38.07	74	-24.31	240.1	Vertical	PK	Pass	
I	2	3885.6250	40.91	11.62	29.29	54	-13.09	240.1	Vertical	AV	Pass	
	2	3885.6250	49.69	11.62	38.07	74	-24.31	240.1	Vertical	QP	Pass	
	3	5742.5000	57.37	21.17	36.2	74	-16.63	349.8	Vertical	PK	Pass	
	3	5742.5000	47.02	21.17	25.85	54	-6.98	349.8	Vertical	AV	Pass	0
	3	5742.5000	57.37	21.17	36.2	74	-16.63	349.8	Vertical	QP	Pass	
	4	8929.5000	39.17	37.37	1.8	74	-34.83	-0.1	Vertical	PK	Pass	ŀ
1	4	8929.5000	31.58	37.37	-5.79	54	-22.42	-0.1	Vertical	AV	Pass	
	4	8929.5000	39.17	37.37	1.8	74	-34.83	-0.1	Vertical	QP	Pass	
	5	11893.5000	45.85	38.7	7.15	74	-28.15	198.2	Vertical	PK	Pass	
J	5	11893.5000	38.55	38.7	-0.15	54	-15.45	198.2	Vertical	AV	Pass	
	5	11893.5000	45.85	38.7	7.15	74	-28.15	198.2	Vertical	QP	Pass	0
	6	17953.5000	54.64	46.19	8.45	74	-19.36	210.1	Vertical	PK	Pass	
	6	17953.5000	46.26	46.19	0.07	54	-7.74	210.1	Vertical	AV	Pass	
	6	17953.5000	54.64	46.19	8.45	74	-19.36	210.1	Vertical	QP	Pass	
												1

Note:

- 1. All emissions not reported were more than 20dB below the specified limit or in the noise floor.
- Emission Level= Reading Level+ Probe Factor +Cable Loss.
 Data of measurement within this frequency range shown "--" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

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6.6.3. Restricted Bands Requirements

Test result for 802.11b Mode (the worst case)

	/								ī
	Frequency	Reading	Correct	Emission	Limit	Margin	Polar	Detector	
			Factor	Level					l
-	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	H/V		
7		awst/ B	$\overline{}$	Low Chan	nel	24			
	2390	60.53	-8.76	51.77	74	22.23	H	PK	
	2390	54.38	-8.76	45.62	54	8.38	Ŧ	AV	
	2390	59.69	-8.73	50.96	V 5 4	23.04	>	PK	
/	2390	56.06	-8.73	47.33	54	6.67	V	AV	
/				High Chan	nel				
4	2483.5	62.00	-8.76	53.24	74	20.76	Ι	PK	0
	2483.5	54.82	-8.76	46.06	54	7.94	H	AV	
	2483.5	59.05	-8.73	50.32	74	23.68	V	PK	
	2483.5	54.37	-8.73	45.64	54	8.36	V	AV	
									i

Note: Freq. = Emission frequency in MHz Reading level $(dB\mu V)$ = Receiver reading

Corr. Factor (dB) = Attenuation factor + Cable loss Level $(dB\mu V) = Reading level (dB\mu V) + Corr. Factor (dB)$

Limit (dBµV) = Limit stated in standard

Margin (dB) = Level (dB μ V) - Limits (dB μ V)

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W5 CT W5 E1 WS E7 WS C

W5 CI NS ET WS CI W5 C

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