

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector
1	5350.000	40.28	-2.24	38.04	74.00	-35.96	peak
2 *	5350.000	31.39	-2.24	29.15	54.00	-24.85	AVG

Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

2.Margin value = Level -Limit value

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5398.00

5378.00

5418.00



Ant. Pol.: Vertical Test Mode: TX 802.11ac(VHT20) Mode 5240MHz (U-NII-1) Remark: No report for the emission which more than 10 dB below the prescribed limit. 110.0 dBuV/m 100 90 80 FCC Part 15C 3M Above-1G Peak 70 60 FCC Part 15C 3M Above-1G AV 40 X 30 20

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector
1	5350.000	40.93	-2.24	38.69	74.00	-35.31	peak
2 *	5350.000	31.35	-2.24	29.11	54.00	-24.89	AVG

(MHz)

5338.00

5358.00

5298.00

Remarks:

5218.000 5238.00

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

2.Margin value = Level -Limit value

5258.00



Ant. Pol.: Horizontal Test Mode: TX 802.11ax(HE20) Mode 5180MHz (U-NII-1) Remark: No report for the emission which more than 10 dB below the prescribed limit. 110.0 dBuV/m 100 90 80 FCC Part 15C 3M Above-1G Peak 70 60 FCC Part 15C 3M Above-16 AV X 50 40 30 20

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	I	Margin (dB)	Detector
1	5150.000	51.05	-2.69	48.36	74.00	-25.64	peak
2 *	5150.000	34.56	-2.69	31.87	54.00	-22.13	AVG

(MHz)

5112.00

5132.00

5152.00

5172.00

5192.00

Remarks:

10.0

4992.000 5012.00

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

2.Margin value = Level -Limit value

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5032.00

5052.00

5192.00



Ant. Pol.: Vertical **Test Mode:** TX 802.11ax(HE20) Mode 5180MHz (U-NII-1) Remark: No report for the emission which more than 10 dB below the prescribed limit. dBuV/m 110.0 90 80 FCC Part 15C 3M Above-1G Peak 70 60 FCC Part 15C 3M Above-16 AV 50 X 40 30 20 10.0

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector
1	5150.000	44.46	-2.69	41.77	74.00	-32.23	peak
2 *	5150.000	35.10	-2.69	32.41	54.00	-21.59	AVG

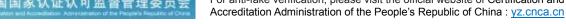
(MHz)

5072.00

Remarks:

4992.000 5012.00

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor





Ant. Pol.: Horizontal **Test Mode:** TX 802.11ax(HE20) Mode 5240MHz (U-NII-1) Remark: No report for the emission which more than 10 dB below the prescribed limit. 110.0 dBuV/m 100 90 80 FCC Part 15C 3M Above-1G Peak 70 60 FCC Part 15C 3M Above-1G AV 50 40 1 X 30 20 10.0

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector
1	5350.000	40.07	-2.24	37.83	74.00	-36.17	peak
2 *	5350.000	31.20	-2.24	28.96	54.00	-25.04	AVG

(MHz)

5346.00

5366.00

5386.00

5406.00

5426.00

Remarks:

5226.000 5246.00

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

2.Margin value = Level -Limit value

5286.00

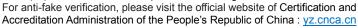


Ant. Pol.: Vertical **Test Mode:** TX 802.11ax(HE20) Mode 5240MHz (U-NII-1) Remark: No report for the emission which more than 10 dB below the prescribed limit. dBuV/m 100 90 80 FCC Part 15C 3M Above-1G Peak 70 60 FCC Part 15C 3M Above-1G AV 50 X X 40 30 20 10.0 5218.000 5238.00 5338.00 5418.00

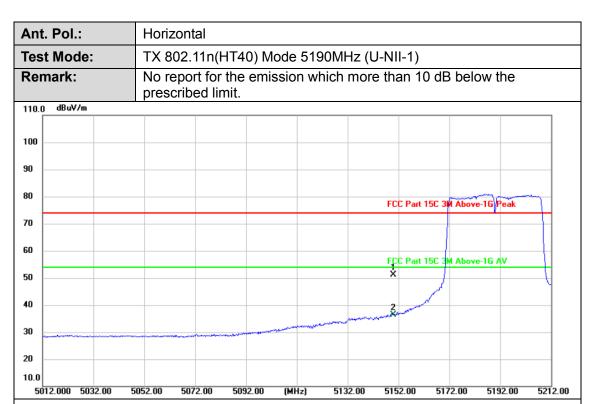
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector
1	5350.000	41.85	-2.24	39.61	74.00	-34.39	peak
2 *	5350.000	31.28	-2.24	29.04	54.00	-24.96	AVG

Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor



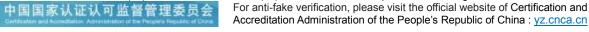




No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector
1	5150.000	53.78	-2.69	51.09	74.00	-22.91	peak
2 *	5150.000	39.03	-2.69	36.34	54.00	-17.66	AVG

Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor





Ant. Pol.: Vertical **Test Mode:** TX 802.11n(HT40) Mode 5190MHz (U-NII-1) Remark: No report for the emission which more than 10 dB below the prescribed limit. 110.0 dBuV/m 100 90 80 FCC Part 15C 3M Above-16 F 70 60 FCC Part 15C 3M Above-1G AV 50 40 2 WWW 30 20 10.0 5012.000 5032.00 5052.00 5072.00 5092.00 (MHz) 5132.00 5152.00 5172.00 5192.00 5212.00

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector
1	5150.000	45.80	-2.69	43.11	74.00	-30.89	peak
2 *	5150.000	36.15	-2.69	33.46	54.00	-20.54	AVG

Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

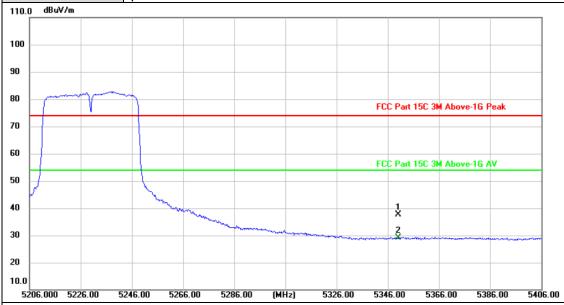


Ant. Pol.: Horizontal

Test Mode: TX 802.11n(HT40) Mode 5230MHz (U-NII-1)

Remark: No report for the emission which more than 10 dB below the prescribed limit.

Report No.: CTC2024118503



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector
1	5350.000	39.93	-2.24	37.69	74.00	-36.31	peak
2 *	5350.000	31.39	-2.24	29.15	54.00	-24.85	AVG

Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor



Ant. Pol.: Vertical **Test Mode:** TX 802.11n(HT40) Mode 5230MHz (U-NII-1) Remark: No report for the emission which more than 10 dB below the prescribed limit. 110.0 dBuV/m 100 90 80 FCC Part 15C 3M Above-1G Peak 70 60 FCC Part 15C 3M Above-1G AV 50 40 30 20 10.0 5208.000 5228.00 5248.00 5268.00 5288.00 (MHz) 5328.00 5348.00 5368.00 5388.00 5408.00

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	l .	Margin (dB)	Detector
1	5350.000	40.98	-2.24	38.74	74.00	-35.26	peak
2 *	5350.000	31.37	-2.24	29.13	54.00	-24.87	AVG

Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor



Ant. Pol.: Horizontal Test Mode: TX 802.11ac(VHT40) Mode 5190MHz (U-NII-1) Remark: No report for the emission which more than 10 dB below the prescribed limit. 110.0 dBuV/m 100 90 80 FCC Part 15C 3M Above-1G Peak 70 60 FCC Part 15C 3M Above-16 AV 50 40 30 20 10.0

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector
1	5150.000	57.02	-2.69	54.33	74.00	-19.67	peak
2 *	5150.000	39.05	-2.69	36.36	54.00	-17.64	AVG

(MHz)

5132.00

5152.00

5172.00

5192.00

5212.00

Remarks:

5012.000 5032.00

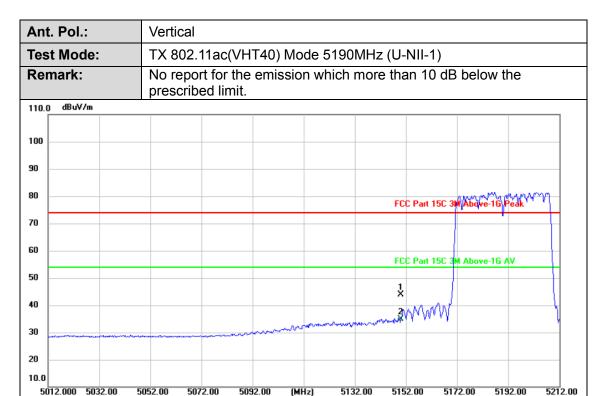
5052.00

5072.00

5092.00

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

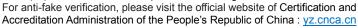




No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector
1	5150.000	46.61	-2.69	43.92	74.00	-30.08	peak
2 *	5150.000	37.48	-2.69	34.79	54.00	-19.21	AVG

Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor



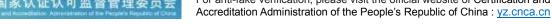


Ant. Pol.: Horizontal **Test Mode:** TX 802.11ac(VHT40) Mode 5230MHz (U-NII-1) No report for the emission which more than 10 dB below the Remark: prescribed limit. 110.0 dBuV/m 100 90 80 FCC Part 15C 3M Above-1G Peak 70 60 FCC Part 15C 3M Above-1G AV 50 X 40 30 20 10.0 5206.000 5226.00 5246.00 5266.00 5286.00 (MHz) 5326.00 5346.00 5366.00 5386.00 5406.00

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	No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector	
	1	5350.000	42.10	-2.24	39.86	74.00	-34.14	peak	
	2 *	5350.000	31.13	-2.24	28.89	54.00	-25.11	AVG	Γ

Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor





Ant. Pol.: Vertical **Test Mode:** TX 802.11ac(VHT40) Mode 5230MHz (U-NII-1) Remark: No report for the emission which more than 10 dB below the prescribed limit. 110.0 dBuV/m 100 90 80 FCC Part 15C 3M Above-1G Peak 70 60 FCC Part 15C 3M Above-1G AV 50 40 30 20

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector
1	5350.000	41.57	-2.24	39.33	74.00	-34.67	peak
2 *	5350.000	31.67	-2.24	29.43	54.00	-24.57	AVG

(MHz)

5328.00

5348.00

5368.00

5388.00

5408.00

Remarks:

5208.000 5228.00

5248.00

5268.00

5288.00

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor



Ant. Pol.: Horizontal Test Mode: TX 802.11ax(HE40) Mode 5190MHz (U-NII-1) Remark: No report for the emission which more than 10 dB below the prescribed limit. 110.0 dBuV/m 100 90 80 FCC Part 15C/3M Above-1G Peak 70 60 FCC Part 150 3M Above-1G AV 50 40 30 20

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector
1	5150.000	53.30	-2.69	50.61	74.00	-23.39	peak
2 *	5150.000	37.67	-2.69	34.98	54.00	-19.02	AVG

(MHz)

5134.50

5154.50

5174.50

5194.50

5214.50

Remarks:

10.0

5014.500 5034.50

5054.50

5074.50

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

5094.50

2.Margin value = Level -Limit value

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Ant. Pol.: Vertical **Test Mode:** TX 802.11ax(HE40) Mode 5190MHz (U-NII-1) No report for the emission which more than 10 dB below the Remark: prescribed limit. dBuV/m 110.0 100 90 80 FCC Part 15C 3M, Above/16, Peak 70 60 FCC Part 15C 3M Above-1G AV 50 X 40 30 20 10.0

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector
1	5150.000	48.39	-2.69	45.70	74.00	-28.30	peak
2 *	5150.000	35.13	-2.69	32.44	54.00	-21.56	AVG

(MHz)

5152.00

5172.00

5192.00

5212.00

Remarks:

5012.000 5032.00

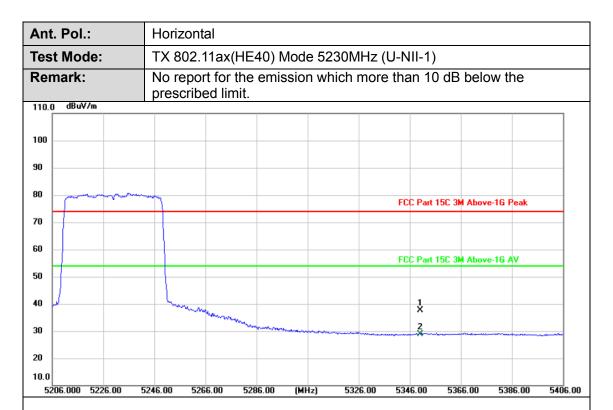
5052.00

5072.00

5092.00

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

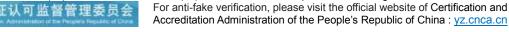




No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector
1	5350.000	39.93	-2.24	37.69	74.00	-36.31	peak
2 *	5350.000	31.20	-2.24	28.96	54.00	-25.04	AVG

Remarks:

- 1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor
- 2.Margin value = Level -Limit value



5408.00



Ant. Pol.: Vertical **Test Mode:** TX 802.11ax(HE40) Mode 5230MHz (U-NII-1) Remark: No report for the emission which more than 10 dB below the prescribed limit. 110.0 dBuV/m 100 90 80 FCC Part 15C 3M Above-1G Peak 70 60 FCC Part 15C 3M Above-1G AV 50 40 30 20

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector
1	5350.000	41.34	-2.24	39.10	74.00	-34.90	peak
2 *	5350.000	31.49	-2.24	29.25	54.00	-24.75	AVG

(MHz)

5328.00

5348.00

Remarks:

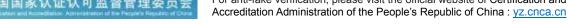
5208.000 5228.00

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

2.Margin value = Level -Limit value

5248.00

5268.00



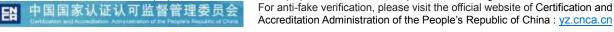


Ant. Pol.: Horizontal TX 802.11ac(VHT80) Mode 5210MHz (U-NII-1) Test Mode: Remark: No report for the emission which more than 10 dB below the prescribed limit. dBuV/m 110.0 100 90 80 FCC Part 15C 3M Above-1G Peak 70 60 X 3 FCC Part 15C 3M Above-1G AV 50 5 X 40 6 30 20 10.0 5214.50 (MHz) 5189.50 5289.50 5314.50

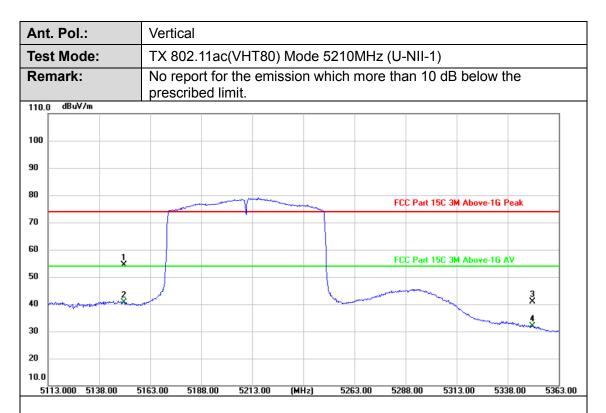
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	5133.700	59.30	-2.73	56.57	74.00	-17.43	peak
2 *	5133.750	46.94	-2.73	44.21	54.00	-9.79	AVG
3	5150.000	58.91	-2.69	56.22	74.00	-17.78	peak
4	5150.000	44.02	-2.69	41.33	54.00	-12.67	AVG
5	5350.000	45.27	-2.24	43.03	74.00	-30.97	peak
6	5350.000	33.85	-2.24	31.61	54.00	-22.39	AVG

Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor



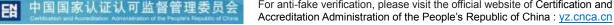




No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	5150.000	57.13	-2.69	54.44	74.00	-19.56	peak
2 *	5150.000	43.42	-2.69	40.73	54.00	-13.27	AVG
3	5350.000	43.02	-2.24	40.78	74.00	-33.22	peak
4	5350.000	34.00	-2.24	31.76	54.00	-22.24	AVG

Remarks:

- 1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor
- 2.Margin value = Level -Limit value





Ant. Pol.: Horizontal Test Mode: TX 802.11ax(HE80) Mode 5210MHz (U-NII-1) Remark: No report for the emission which more than 10 dB below the prescribed limit. dBuV/m 110.0 100 90 80 FCC Part 15C 3M Above-1G Peak 70 60 FCC Part 15C 3M Above-1G AV 50 40 30 20 10.0

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	5132.000	57.13	-2.73	54.40	74.00	-19.60	peak
2 *	5132.344	43.77	-2.73	41.04	54.00	-12.96	AVG
3	5150.000	52.05	-2.69	49.36	74.00	-24.64	peak
4	5150.000	39.94	-2.69	37.25	54.00	-16.75	AVG
5	5350.000	41.49	-2.24	39.25	74.00	-34.75	peak
6	5350.000	31.76	-2.24	29.52	54.00	-24.48	AVG

(MHz)

5264.50

5289.50

5314.50

5339.50

5364.50

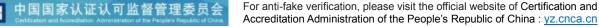
Remarks:

5114.500 5139.50

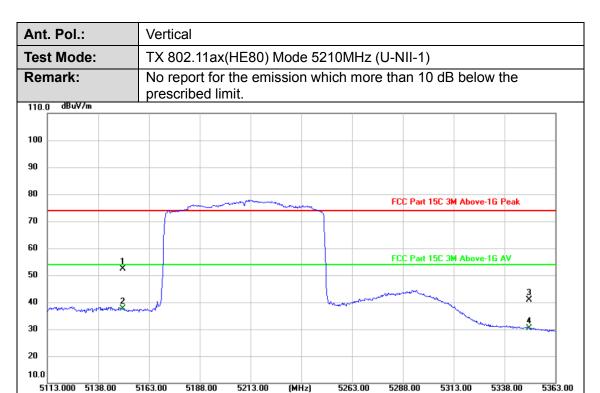
5164.50

5189.50

- 1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor
- 2.Margin value = Level -Limit value







No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	5150.000	55.07	-2.69	52.38	74.00	-21.62	peak
2 *	5150.000	40.27	-2.69	37.58	54.00	-16.42	AVG
3	5350.000	43.22	-2.24	40.98	74.00	-33.02	peak
4	5350.000	32.60	-2.24	30.36	54.00	-23.64	AVG

Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor



Ant. Pol.: Horizontal Test Mode: TX 802.11a Mode 5745MHz (U-NII-3) Remark: No report for the emission which more than 10 dB below the prescribed limit. 130.0 dBuV/m 120 110 100 90 80 FCC Part15.407 U-NII-3 70 Margin -6 dB Mapph sample of Mappheladary for a 60

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	5725.000	68.53	-1.11	67.42	122.20	-54.78	peak

(MHz)

5815.00

5842.50

5870.00

5897.50

5925.00

5760.00

Remarks:

50

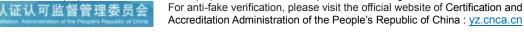
40 30.0

5650.000 5677.50

5705.00

5732.50

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor





Ant. Pol.: Vertical **Test Mode:** TX 802.11a Mode 5745MHz (U-NII-3) Remark: No report for the emission which more than 10 dB below the prescribed limit. dBuV/m 120 110 100 90 80 FCC Part15.407 U-NII-3 70 Margin -6 dB 60 50 40 30.0 5650.000 5677.50 5815.00 5925.00 5705.00 5732.50 5760.00 (MHz) 5842.50 5870.00 5897.50

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	5725.000	60.18	-1.11	59.07	122.20	-63.13	peak

Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

2.Margin value = Level -Limit value

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5925.00

5897.50



Ant. Pol.: Horizontal Test Mode: TX 802.11a Mode 5825MHz (U-NII-3) Remark: No report for the emission which more than 10 dB below the prescribed limit. dBuV/m 130.0 120 100 90 80 FCC Part15.407 U-NII-3 70 Margin -6 dB 60 50 40 30.0

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	5850.000	57.19	-0.61	56.58	122.20	-65.62	peak

(MHz)

5815.00

5842.50

5760.00

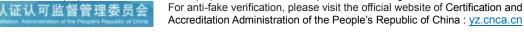
Remarks:

5650.000 5677.50

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

2.Margin value = Level -Limit value

5705.00



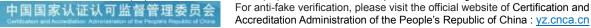


Ant. Pol.: Vertical **Test Mode:** TX 802.11a Mode 5825MHz (U-NII-3) Remark: No report for the emission which more than 10 dB below the prescribed limit. dBuV/m 120 110 100 90 80 FCC Part15.407 U-NII-3 70 Margin -6 dB 60 50 40 30.0 5650.000 5677.50 5705.00 5732.50 5760.00 (MHz) 5815.00 5842.50 5870.00 5897.50 5925.00

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	5850.000	55.13	-0.61	54.52	122.20	-67.68	peak

Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor





Ant. Pol.: Horizontal Test Mode: TX 802.11n(HT20) Mode 5745MHz (U-NII-3) Remark: No report for the emission which more than 10 dB below the prescribed limit. 130.0 dBuV/m 120 110 100 90 80 FCC Part15.407 U-NII-3 Malkey war file habe for the war when when Margin -6 dB general all the control and a self-60 50 40

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	5725.000	71.18	-1.11	70.07	122.20	-52.13	peak

(MHz)

5815.00

5842.50

5870.00

5897.50

5925.00

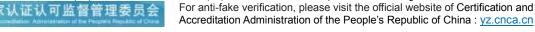
Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

2.Margin value = Level -Limit value

5705.00

5732.50





Ant. Pol.: Vertical **Test Mode:** TX 802.11n(HT20) Mode 5745MHz (U-NII-3) Remark: No report for the emission which more than 10 dB below the prescribed limit. 130.0 dBuV/m 120 110 100 90 80 FCC Part15.407 U-NII-3 70 Margin -6 dB 60 50 40 30.0 5732.50 5760.00 5842.50 5925.00

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	5725.000	63.38	-1.11	62.27	122.20	-59.93	peak

Remarks:

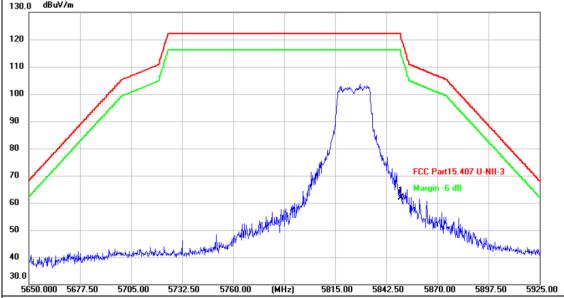
1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor



Ant. Pol.: Horizontal

Test Mode: TX 802.11n(HT20) Mode 5825MHz (U-NII-3)

Remark: No report for the emission which more than 10 dB below the prescribed limit.



No.	Frequency (MHz)			Level (dBuV/m)		Margin (dB)	Detector
1 *	5850.000	62.52	-0.61	61.91	122.20	-60.29	peak

Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

2.Margin value = Level -Limit value

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Ant. Pol.: Vertical **Test Mode:** TX 802.11n(HT20) Mode 5825MHz (U-NII-3) Remark: No report for the emission which more than 10 dB below the prescribed limit. 130.0 dBuV/m 120 110 100 90 80 FCC Part15.407 U-NII-3 Margin -6 dB 60 50 30.0 5760.00 (MHz) 5815.00 5842.50 5897.50 5925.00 5650.000 5677.50 5732.50

	No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
l	1 *	5850.000	56.20	-0.61	55.59	122.20	-66.61	peak

Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor



Ant. Pol.: Horizontal **Test Mode:** TX 802.11ac(VHT20) Mode 5745MHz (U-NII-3) No report for the emission which more than 10 dB below the Remark: prescribed limit. 130.0 dBuV/m 120 110 100 90 80 FCC Part15.407 U-NII-3 70 Margin -6 dB 60 50 40

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	5725.000	72.98	-1.11	71.87	122.20	-50.33	peak

(MHz)

5815.00

5842.50

5870.00

5897.50

5925.00

Remarks:

30.0

5650.000 5677.50

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

2.Margin value = Level -Limit value

5705.00

5732.50



Ant. Pol.: Vertical Test Mode: TX 802.11ac(VHT20) Mode 5745MHz (U-NII-3) Remark: No report for the emission which more than 10 dB below the prescribed limit. 130.0 dBuV/m 120 110 100 90 80 FCC Part15.407 U-NII-3 70 Margin -6 dB 60 50 40 30.0 5650.000 5677.50 (MHz) 5925.00

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	5725.000	67.55	-1.11	66.44	122.20	-55.76	peak

Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor



Ant. Pol.: Horizontal Test Mode: TX 802.11ac(VHT20) Mode 5825MHz (U-NII-3) Remark: No report for the emission which more than 10 dB below the prescribed limit. dBuV/m 120 110 100 90 80 Margin Margin FCC Part15.407 U-NII-3 70 БN 50 5650.000 5677.50 5705.00 5732.50 5760.00 (MHz) 5815.00 5842.50 5870.00 5897.50 5925.00

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	5850.000	65.70	-0.61	65.09	122.20	-57.11	peak

Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor



Ant. Pol.: Vertical Test Mode: TX 802.11ac(VHT20) Mode 5825MHz (U-NII-3) Remark: No report for the emission which more than 10 dB below the prescribed limit. dBuV/m 130.0 120 110 100 90 80 FCC Part15.407 U-NII-3 70 Margin -6 dB 60 50 40 30.0 5650.000 5677.50 5705.00 5732.50 5760.00 (MHz) 5815.00 5842.50 5870.00 5897.50 5925.00

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	5850.000	52.22	-0.61	51.61	122.20	-70.59	peak

Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor



Ant. Pol.: Horizontal Test Mode: TX 802.11ax(HE20) Mode 5745MHz (U-NII-3) No report for the emission which more than 10 dB below the Remark: prescribed limit. dBuV/m 120 110 100 90 80 FCC Part15.407 U-NII-3 70 Margin -6 dB h had the world broken from the world 60 50 40

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	5725.000	75.36	-1.11	74.25	122.20	-47.95	peak

(MHz)

5815.00

5842.50

5870.00

5897.50

5925.00

Remarks:

5650.000 5677.50

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

2.Margin value = Level -Limit value

5705.00

5732.50

5925.00



60 50

40 30.0

5650.000 5677.50

Ant. Pol.: Vertical **Test Mode:** TX 802.11ax(HE20) Mode 5745MHz (U-NII-3) Remark: No report for the emission which more than 10 dB below the prescribed limit. 130.0 dBuV/m 120 110 100 بالإلهرار والإلا 90 80 FCC Part15.407 U-NII-3 70 Margin -6 dB

1							
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	5725.000	60.20	-1.11	59.09	122.20	-63.11	peak

(MHz)

5815.00

5732.50

5760.00

Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor



Ant. Pol.: Horizontal Test Mode: TX 802.11ax(HE20) Mode 5825MHz (U-NII-3) Remark: No report for the emission which more than 10 dB below the prescribed limit. dBuV/m 130.0 120 110 100 90 80 FCC Part15.407 U-NII-3 70 60 50 40 30.0

No.	Frequency (MHz)			Level (dBuV/m)		Margin (dB)	Detector
1 *	5850.000	62.78	-0.61	62.17	122.20	-60.03	peak

(MHz)

5815.00

5842.50

5870.00

5897.50

5925.00

Remarks:

5650.000 5677.50

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

2.Margin value = Level -Limit value

5705.00

5732.50

5760.00

5897.50



Ant. Pol.: Vertical **Test Mode:** TX 802.11ax(HE20) Mode 5825MHz (U-NII-3) Remark: No report for the emission which more than 10 dB below the prescribed limit. dBuV/m 120 110 100 **YAYAMI** 90 80 FCC Part15.407 U-NII-3 70 Margin -6 dB 60 50 40 30.0 5870.00 5650.000 5677.50 5815.00 5842.50 5925.00

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	5850.000	57.22	-0.61	56.61	122.20	-65.59	peak

(MHz)

Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

2.Margin value = Level -Limit value

5705.00

5732.50

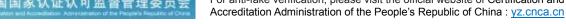
5760.00



Ant. Pol.: Horizontal **Test Mode:** TX 802.11n(HT40) Mode 5755MHz (U-NII-3) Remark: No report for the emission which more than 10 dB below the prescribed limit. 130.0 dBuV/m 120 110 100 90 80 Appropriate the source of the source of the second FCC Part15.407 U-NII-3 70 Margin -6 dB 60 50 40 30.0 5732.50 5760.00 (MHz) 5815.00 5842.50 Frequency Reading Factor Level Limit Margin Detector No. (MHz) (dBuV) (dB/m) (dBuV/m)|(dBuV/m)(dB) 1 * 5725.000 73.92 -1.11 72.81 122.20 -49.39peak

Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor





Ant. Pol.: Vertical Test Mode: TX 802.11n(HT40) Mode 5755MHz (U-NII-3) Remark: No report for the emission which more than 10 dB below the prescribed limit. 130.0 dBuV/m 120 110 100 90 80 30.0 <u>56</u>50 FCC Part15.407 U-NII-3 Margin -6 dB 5732.50 5760.00 (MHz) 5815.00 5870.00 5925.00

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	5725.000	65.32	-1.11	64.21	122.20	-57.99	peak

Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

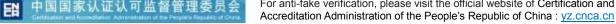


Ant. Pol.: Horizontal Test Mode: TX 802.11n(HT40) Mode 5795MHz (U-NII-3) Remark: No report for the emission which more than 10 dB below the prescribed limit. dBuV/m 130.0 120 110 100 90 80 FCC Part15.407 U-NII-3 70 may hope water property with white was who have deen Janky tarth de large wild grant by the book 60 50 40 30.0 5760.00 (MHz)

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	5850.000	58.61	-0.61	58.00	122.20	-64.20	peak

Remarks:

- 1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor
- 2.Margin value = Level -Limit value





Ant. Pol.: Vertical Test Mode: TX 802.11n(HT40) Mode 5795MHz (U-NII-3) Remark: No report for the emission which more than 10 dB below the prescribed limit. 130.0 dBuV/m 120 110 100 90 80 FCC Part15.407 U-NII-3 70 vanhangerhander (MARA) and broken (MARA) the form Margin -6 dB 60 50 40 30.0 5650.000 5677.50 5760.00 (MHz) 5815.00 5842.50 5925.00

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	5850.000	51.79	-0.61	51.18	122.20	-71.02	peak

Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor



Ant. Pol.: Horizontal Test Mode: TX 802.11ac(VHT40) Mode 5755MHz (U-NII-3) Remark: No report for the emission which more than 10 dB below the prescribed limit. dBuV/m 130.0 120 110 100 90 80 make the discontinue to the land to the la applications and the second of FCC Part15.407 U-NII-3 70 Margin -6 dB 60 50 5650.000 5677.50 5705.00 5732.50 5760.00 (MHz) 5815.00 5842.50 5870.00 5897.50 5925.00

No.	Frequency (MHz)			Level (dBuV/m)		Margin (dB)	Detector
1 *	5725.000	71.28	-1.11	70.17	122.20	-52.03	peak

Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor



Ant. Pol.: Vertical Test Mode: TX 802.11ac(VHT40) Mode 5755MHz (U-NII-3) No report for the emission which more than 10 dB below the Remark: prescribed limit. dBuV/m 130.0 110 100 90 80 FCC Part15.407 U-NII-3 70 Apply to the first of the first of the formation of the first of the f Margin -6 dB 60 50

No.	Frequency (MHz)	Reading (dBuV)		Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	5725.000	65.30	-1.11	64.19	122.20	-58.01	peak

(MHz)

5732.50

5760.00

Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor



Ant. Pol.: Horizontal Test Mode: TX 802.11ac(VHT40) Mode 5795MHz (U-NII-3) Remark: No report for the emission which more than 10 dB below the prescribed limit. dBuV/m 130.0 120 110 90 80 White the second 000 56 70 60 50

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	5850.000	54.70	-0.61	54.09	122.20	-68.11	peak

(MHz)

5760.00

Remarks:

40 30.0

5650.000 5677.50

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

5897.50

5925.00



Ant. Pol.: Vertical Test Mode: TX 802.11ac(VHT40) Mode 5795MHz (U-NII-3) Remark: No report for the emission which more than 10 dB below the prescribed limit. 130.0 dBuV/m 120 110 100 90 80 FCC Part15.407 U-NII-3 70 Whiteham showing to pull the second Miller Land John Congress of the State of th Margin -6 dB 60 50 40

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	5850.000	51.78	-0.61	51.17	122.20	-71.03	peak

(MHz)

5815.00

5842.50

5760.00

Remarks:

30.0

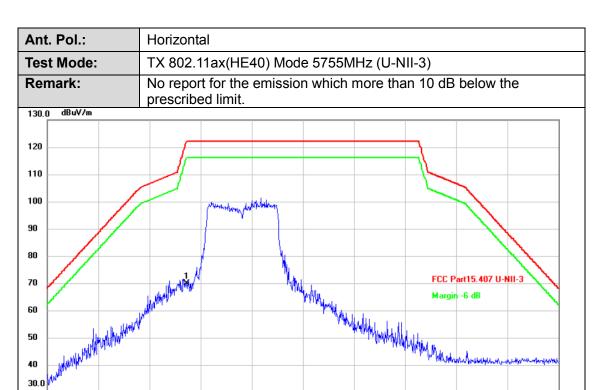
5650.000 5677.50

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

2.Margin value = Level -Limit value

5705.00





No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	5725.000	70.98	-1.11	69.87	122.20	-52.33	peak

(MHz)

5815.00

5842.50

5870.00

5897.50

5925.00

Remarks:

5650.000 5677.50

5705.00

5732.50

5760.00

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

2.Margin value = Level -Limit value

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Ant. Pol.: Vertical **Test Mode:** TX 802.11ax(HE40) Mode 5755MHz (U-NII-3) Remark: No report for the emission which more than 10 dB below the prescribed limit. 130.0 dBuV/m 120 110 100 90 80 FCC Part15.407 U-NII-3 70 Margin -6 dB or Malthydronal all themselyd 60 50 5925.00 5650.000 5677.50 5760.00 (MHz) 5815.00 5842.50 5870.00 5897.50 5705.00 5732.50

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	5725.000	60.60	-1.11	59.49	122.20	-62.71	peak

Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

5897.50

5925.00



Ant. Pol.: Horizontal Test Mode: TX 802.11ax(HE40) Mode 5795MHz (U-NII-3) Remark: No report for the emission which more than 10 dB below the prescribed limit. 130.0 dBuV/m 120 110 100 90 80 Marylly who will have been a FCC Part15.407 U-NII-3 70 60 50 40 30.0

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	5850.000	53.63	-0.61	53.02	122.20	-69.18	peak

(MHz)

5815.00

5842.50

5760.00

Remarks:

5650.000 5677.50

5705.00

5732.50

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

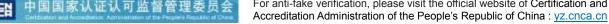


Ant. Pol.: Vertical **Test Mode:** TX 802.11ax(HE40) Mode 5795MHz (U-NII-3) Remark: No report for the emission which more than 10 dB below the prescribed limit. 130.0 dBuV/m 120 110 100 90 80 FCC Part15.407 U-NII-3 70 Margin -6 dB All Market Marke 60 50 40 5650.000 5677.50 5705.00 5760.00 (MHz) 5815.00 5897.50 5925.00 5732.50

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	5850.000	50.17	-0.61	49.56	122.20	-72.64	peak

Remarks:

- 1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor
- 2.Margin value = Level -Limit value





Ant. Pol.: Horizontal TX 802.11ac(VHT80) Mode 5775MHz (U-NII-3) Test Mode: Remark: No report for the emission which more than 10 dB below the prescribed limit. 130.0 dBuV/m 120 110 100 90 FCC Part15.407 U-NII-3 80 distributed to the state of the 70 60 50

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	5725.000	72.17	-1.11	71.06	122.20	-51.14	peak
2	5850.000	68.24	-0.61	67.63	122.20	-54.57	peak

(MHz)

5842.50

Remarks:

40 30.0

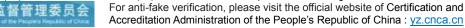
1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

2.Margin value = Level -Limit value

5705.00

5732.50

5760.00





Ant. Pol.: Vertical **Test Mode:** TX 802.11ac(VHT80) Mode 5775MHz (U-NII-3) Remark: No report for the emission which more than 10 dB below the prescribed limit. 130.0 dBuV/m 120 110 100 90 80 FCC Part15.407 U-NII-3 70 A Contract Convince William Contract Co 60 50 40 30.0

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector
1 *	5725.000	62.19	-1.11	61.08	122.20	-61.12	peak
2	5850.000	57.90	-0.61	57.29	122.20	-64.91	peak

Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

5925.00



Ant. Pol.: Horizontal Test Mode: TX 802.11ax(HE80) Mode 5775MHz (U-NII-3) Remark: No report for the emission which more than 10 dB below the prescribed limit. dBuV/m 130.0 120 110 100 politica professioni relativa petra relativa petra relativa petra relativa petra relativa petra relativa petra 90 80 Madrey Hardhay gay ag half half h FCC Part15.407 U-NII-3 70 60

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector
1 *	5725.000	67.19	-1.11	66.08	122.20	-56.12	peak
2	5850.000	63.23	-0.61	62.62	122.20	-59.58	peak

(MHz)

5842.50

5870.00

5897.50

5815.00

Remarks:

50 40 30.0

5650.000 5677.50

5705.00

5732.50

5760.00

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

5925.00



Ant. Pol.: Vertical **Test Mode:** TX 802.11ax(HE80) Mode 5775MHz (U-NII-3) Remark: No report for the emission which more than 10 dB below the prescribed limit. dBuV/m 130.0 120 110 100 90 80 FCC Part15.407 U-NII-3 70 Margin -6 dB Wall of the state Michael Marchael Control of the 60 50 40 30.0

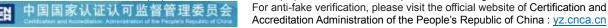
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector
1 *	5725.000	58.83	-1.11	57.72	122.20	-64.48	peak
2	5850.000	55.24	-0.61	54.63	122.20	-67.57	peak

5815.00

5760.00

Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor



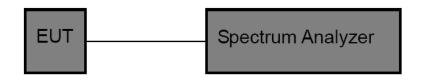


3.4. Bandwidth Test

Limit

FCC Part 15 Subpart C(15.407)/ RSS-247						
Test Item Limit Frequency Range (MHz)						
		5150~5250				
26 Bandwidth	N/A	5250~5350				
		5500~5700				
6 dB Bandwidth	>500kHz	5725~5850				

Test Configuration

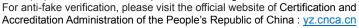


Test Procedure

Please refer to According to KDB789033 D02, for the measurement methods.

The setting of the spectrum analyser as below:

26dB Bandwidth Test					
Spectrum Parameters Setting					
Attenuation	Auto				
Span	>26 dB Bandwidth				
RBW	Approximately 1% of the emission bandwidth				
VBW	VBW>RBW				
Detector	Peak				
Trace	Max Hold				
Sweep Time	Auto				





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6dB Bandwidth Test					
Spectrum Parameters	Setting				
Attenuation	Auto				
Span	>6 dB Bandwidth				
RBW	100 kHz				
VBW	VBW>=3*RBW				
Detector	Peak				
Trace	Max Hold				
Sweep Time	Auto				
	99% Occupied Bandwidth Test				
Spectrum Parameters	Setting				
Attenuation	Auto				
RBW	1% to 5% of the OBW				
VBW	≥ 3RBW				
Detector	Peak				
Trace	Max Hold				

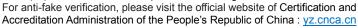
Note: The EUT was set to continuously transmitting in each mode and low, Middle and high channel for the test.

Test Mode

Please refer to the clause 2.4.

Test Results

Please see the Appendix A1, A2, A3.





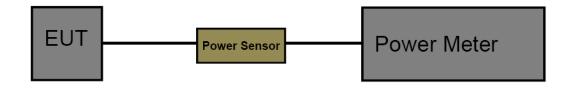
3.5. Output Power Test

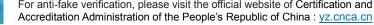
<u>Limit</u>

FCC Part 15 Subpart E (15.407)						
Test Item	Limit	Frequency Range(MHz)				
	Fixed: 1 Watt (30dBm) Mobile and Portable: 250mW (24dBm)	5150~5250				
Conducted Output Power	250mW (24dBm)	5250~5350				
	250mW (24dBm)	5500~5700				
	1 Watt (30dBm)	5725~5850				

			IC Power@PSD Lim	nit	
Frequency	Type of devices	Maximum Conducted	EIRP Output Power	Conducted Power	EIRP Power
5150MHz-5250MHz	in vehicles	Output Power	30mW or 1.76 + 10 × log10B dBm, whichever is less (B=99% OBW in MHz)	Spectral Density	Spectral Bensity
3130mnz-3230mnz	Other Devices		200mW or 10 + 10 × log10B dBm, whichever is less (B=99% OBW in MHz)		10dBm/MHz
	in vehicles		30mW or 1.76 + 10 × logsoB dBm, whichever is less (B=99% OBW in MHz)		
5250MHz-5350MHz	Other Devices	250mW or 11 + 10 × log10B dBm, whichever is less (B=99% OBW in MHz)	1W or 17 + 10 ×logioB dBm, whichever is less (B=99% OBW in MHz)	11 dBm/Mhz	
5470MHz-5600MHz 5650MHz-5725MHz	ALL Devices	250mW or 11 + 10 × log10B dBm, whichever is less (B=99% OBW in MHz)	1W or 17 + 10 ×logioB dBm, whichever is less (B=99% OBW in MHz)	11 dBm/Mhz	
5725MHz-5850MHz	ALL Devices	1₩		30dBm/500KHz	

Test Configuration









Test Procedure

The measurement is according to section 3 of KDB 789033 D02 General UNII Test Procedures New Rules V02r01.

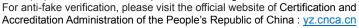
Report No.: CTC2024118503

Test Mode

Please refer to the clause 2.4.

Test Result

Please see the Appendix B.





3.6. Power Spectral Density Test

Limit

FCC Part 15 Subpart E(15.407)/ RSS-247

For the 5.15~5.25GHz band:

Outdoor AP

The peak power spectral density (PSD) shall not exceed the lesser of 17dBm/MHz. If G_{Tx} >6dBi, then PSD =17-(G_{Tx} -6).

Indoor AP

The peak power spectral density (PSD) shall not exceed the lesser of 17dBm/MHz. If G_{Tx} >6dBi, then PSD =17-(G_{Tx} -6).

Point-to-point AP

The peak power spectral density (PSD) shall not exceed the lesser of 17dBm/MHz. If G_{Tx} >23dBi, then PSD =17-(G_{Tx} -23).

Client devices

The peak power spectral density (PSD) shall not exceed the lesser of 11dBm/MHz. If G_{Tx} >6dBi, then PSD =11-(G_{Tx} -6).

For the 5.25~5.35GHz band:

The peak power spectral density (PSD) shall not exceed the lesser of 11dBm/MHz. If G_{Tx} >6dBi, then PSD =11-(G_{Tx} -6).

For the 5.47~5.725GHz band:

The peak power spectral density (PSD) shall not exceed the lesser of 11dBm/MHz. If G_{Tx} >6dBi, then PSD =11-(G_{Tx} -6).

For the 5.725~5.85GHz band:

Point-to-multipoint systems (P2M)

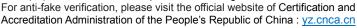
The peak power spectral density (PSD) shall not exceed the lesser of 30dBm/500kHz. If $G_{Tx}>6dBi$, then PSD = $30-(G_{Tx}-6)$.

Point-to-point systems (P2P)

The peak power spectral density (PSD) shall not exceed the lesser of 30dBm/500kHz.

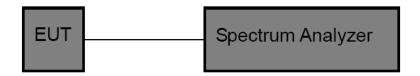
Note: G_{Tx}: EUT Antenna gain.

			IC Power@PSD Lim	nit	
Frequency	Type of devices	Maximum Conducted Output Power	EIRP Output Power	Conducted Power Spectral Density	EIRP Power Spectral Density
5150MHz-5250MHz	in vehicles		30mW or 1.76 + 10 × log10B dBm, whichever is less (B=99% OBW in MHz)		
	Other Devices		200mW or 10 + 10 × log:OB dBm, whichever is less (B=99% OBW in MHz)		10dBm/MHz
	in vehicles		30mW or 1.76 + 10 × logioB dBm, whichever is less (B=99% OBW in MHz)		
5250MHz-5350MHz	Other Devices	250mW or 11 + 10 × log10B dBm, whichever is less (B=99% OBW in MHz)	1W or 17 + 10 ×log10B dBm, whichever is less (B=99% OBW in MHz)	11 dBm/Mhz	
5470MHz-5600MHz 5650MHz-5725MHz	ALL Devices	250mW or 11 + 10 × log10B dBm, whichever is less (B=99% OBW in MHz)	1W or 17 + 10 ×log10B dBm, whichever is less (B=99% OBW in MHz)	11 dBm/Mhz	
5725MHz-5850MHz	ALL Devices	1₩		30 dBm/500KHz	





Test Configuration



Test Procedure

The EUT was directly connected to the Spectrum Analyzer and antenna output port as show in the block diagram above. The measurement is according to KDB 789033 D02 General UNII Test Procedures New Rules V02r01.

- (1) The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram above.
- (2) Set analyzer center frequency to transmitting frequency.
- (3) Set the span to encompass the entire emissions bandwidth (EBW)(alternatively, the entire 99% OBW) of the signal.
- (4) RBW=1MHz for devices operating in the bands 5.15-5.25 GHz, 5.25-5.35 GHz, and 5.47-5.725 GHz RBW=500kHz for devices operating in the band 5.725-5.85 GHz
- (5) Set the VBW to: ≥ 3 RBW
- (6) Detector: AVG
- (7) Trace: Max Hold and View
- (7) Sweep time: auto
- (8) Trace average at least 100 traces in power averaging.
- (9) User the peak marker function to determine the maximum amplitude level within the RBW. Apply correction to the result if different RBW is used.

NOTE: The EUT was set to continuously transmitting in each mode and low, Middle and high channel for the test.

Test Mode

Please refer to the clause 2.4.

Test Result

Please see the Appendix C.

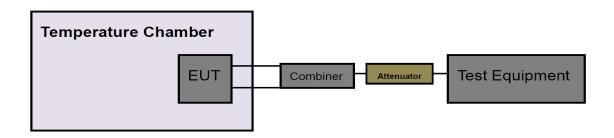


3.7. Frequency Stability Measurement

Limit

FCC Part 15 Subpart C(15.407)						
Test Item	Limit	Frequency Range(MHz)				
	Specified in the user's manual,	5150~5250				
Peak Excursion Measurement	the transmitter center frequency tolerance shall be ±20 ppm maximum for the 5 GHz band	5250~5350				
Peak Excursion Measurement		5500~5700				
	(IEEE 802.11n specification)	5725~5850				

Test Configuration



Test Procedure

The EUT was directly connected to the Spectrum Analyzer and antenna output port as show in the block diagram above.

- (1) The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram above.
- (2) Set analyzer center frequency to transmitting frequency.
- (3) Set the span to encompass the entire emissions bandwidth (EBW) of the signal.
- (4) Set the RBW to: 10MHz, VBW=10MHz with peak detector and maxhold settings.
- (5) The test extreme voltage is to change the primary supply voltage from 4.5V to 5.5V percent of the nominal value.
- (6) Extreme temperature is 0°C ~ 45°C

NOTE: The EUT was set to continuously transmitting in continuously un-modulation transmitting mode.

Test Mode

Please refer to the clause 2.4.

Test Result

Please see the Appendix D.





3.8. Antenna Requirement

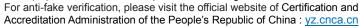
Standard Requirement

FCC CFR Title 47 Part 15 Subpart C Section 15.203:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

Test Result

The directional gain of the antenna less than 6dBi, please refer to the EUT internal photographs antenna photo.





3.9. Dynamic Frequency Selection(DFS)

Requirement

Table 1: Applicability of DFS Requirements Prior to Use of a Channel

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	Operational Mode				
Requirement	Master	Client Without Radar Detection	Client With Radar Detection		
Non-Occupancy Period	Yes	Not required	Yes		
DFS Detection Threshold	Yes	Not required	Yes		
Channel Availability Check Time	Yes	Not required	Not required		
U-NII Detection Bandwidth	Yes	Not required	Yes		

Table 2: Applicability of DFS requirements during normal operation

	Operational Mode			
Requirement	Master Device or Client with Radar Detection	Client Without Radar Detection		
DFS Detection Threshold	Yes	Not required		
Channel Closing Transmission Time	Yes	Yes		
Channel Move Time	Yes	Yes		
U-NII Detection Bandwidth	Yes	Not required		

Additional requirements for devices with multiple bandwidth modes	Master Device or Client with Radar Detection	Client Without Radar Detection
U-NII Detection Bandwidth and Statistical Performance Check	All BW modes must be tested	Not required
Channel Move Time and Channel Closing Transmission Time	Test using widest BW mode available	Test using the widest BW mode available for the link
All other tests	Any single BW mode	Not required

Note: Frequencies selected for statistical performance check (Section 7.8.4) should include several frequencies within the radar detection bandwidth and frequencies near the edge of the radar detection bandwidth. For 802.11 devices it is suggested to select frequencies in each of the bonded 20 MHz channels and the channel center frequency.



1. DFS Detection Thresholds

Table 3: DFS Detection Thresholds for Master Devices and Client Devices With Radar Detection

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Maximum Transmit Power	Value (See Notes 1, 2, and 3)
EIRP ≥ 200 milliwatt	-64 dBm
EIRP < 200 milliwatt and power spectral density < 10 dBm/MHz	-62 dBm
EIRP < 200 milliwatt that do not meet the power spectral density requirement	-64 dBm

Note 1: This is the level at the input of the receiver assuming a 0dBi receive antenna.

Note 2: Throughout these test procedures an additional 1 dB has been added to the amplitude of the test transmission waveforms to account for variations in measurement equipment. This will ensure that the test signal is at or above the detection threshold level to trigger a DFS response.

Note3: EIRP is based on the highest antenna gain. For MIMO devices refer to KDB Publication 662911 D01.

2. DFS Response Requirements

Table 4: DFS Response Requirement Values

Parameter	Value
Non-occupancy period	Minimum 30 minutes
Channel Availability Check Time	60 seconds
Channel Move Time	10 seconds See Note 1.
Channel Closing Transmission Time	200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period. See Notes 1 and 2.
U-NII Detection Bandwidth	Minimum 100% of the U-NII 99% transmission power bandwidth. See Note 3.

Note 1: Channel Move Time and the Channel Closing Transmission Time should be performed with Radar Type 0. The measurement timing begins at the end of the Radar Type 0 burst.

Note 2: The Channel Closing Transmission Time is comprised of 200 milliseconds starting at the beginning of the Channel Move Time plus any additional intermittent control signals required facilitating a Channel move (an aggregate of 60 milliseconds) during the remainder of the 10 second period. The aggregate duration of control signals will not count quiet periods in between transmissions.

Note 3: During the U-NII Detection Bandwidth detection test, radar type 0 should be used. For each frequency step the minimum percentage of detection is 90 percent. Measurements are performed with no data traffic.

RADAR TEST WAVEFORMS

This section provides the parameters for required test waveforms, minimum percentage of successful detections, and the minimum number of trials that must be used for determining DFS conformance. Step intervals of 0.1 microsecond for Pulse Width, 1 microsecond for PRI, 1 MHz for chirp width and 1 for the number of pulses will be utilized for the random determination of specific test waveforms.

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Table 5 Short Pulse Radar Test Waveforms

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Radar Type	Pulse Width (µsec)	PRI (µsec) Number of Pulses		Minimum Percentage of Successful Detection	Minimum Number of Trials
0	1	1428	18	See Note 1	See Note 1
		Test A: 15 unique PRI values randomly selected from the list of 23 PRI values in Table 5a	$ \operatorname{Roundup} \left\{ \left(\frac{1}{360} \right) \cdot \left(\frac{19 \cdot 10^6}{\operatorname{PRI}_{\mu \text{sec}}} \right) \right\} $		
1	1	Test B: 15 unique PRI values randomly selected within the range of 518-3066 µsec, with a minimum increment of 1 µsec, excluding PRI values selected in Test A		60%	30
2	1-5	150-230	23-29	60%	30
3	6-10	200-500 16-18		60%	30
4	11-20	200-500	12-16	60%	30
Aggregate (Radar Types 1-4) 80% 120					
Note 1: Short Pulse Radar Type 0 should be used for the detection bandwidth test, channel move time,					

Note 1: Short Pulse Radar Type 0 should be used for the detection bandwidth test, channel move time, and channel closing time tests.

A minimum of 30 unique waveforms are required for each of the Short Pulse Radar Types 2 through 4. If more than 30 waveforms are used for Short Pulse Radar Types 2 through 4, then each additional waveform must also be unique and not repeated from the previous waveforms. If more than 30 waveforms are used for Short Pulse Radar Type 1, then each additional waveform is generated with Test B and must also be unique and not repeated from the previous waveforms in Tests A or B.

For example if in Short Pulse Radar Type 1 Test B a PRI of 3066 µsec is selected, the number of pulses

would be Round up
$$\left\{ \left(\frac{1}{360} \right) \cdot \left(\frac{19 \cdot 10^6}{3066} \right) \right\} = \text{Round up } \{17.2\} = 18.$$

Table 5a - Pulse Repetition Intervals Values for Test A

Pulse Repetition Frequency	Pulse Repetition Frequency	Pulse Repetition Interval
Number	(Pulses Per Second)	(Microseconds)
1	1930.5	518
2	1858.7	538
3	1792.1	558
4	1730.1	578
5	1672.2	598
6	1618.1	618
7	1567.4	638
8	1519.8	658
9	1474.9	678
10	1432.7	698

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11	1392.8	718
12	1355	738
13	1319.3	758
14	1285.3	778
15	1253.1	798
16	1222.5	818
17	1193.3	838
18	1165.6	858
19	1139	878
20	1113.6	898
21	1089.3	918
22	1066.1	938
23	326.2	3066

Table 6 – Long Pulse Radar Test Waveform

Radar Type	Pulse Width (µsec)	Chirp Width (MHz)	PRI (µsec)	Number of Pulses per Burst	Number of Bursts	Minimum Percentage of Successful Detection	Minimum Number of Trials
5	50-100	5-20	1000-2000	1-3	8-20	80%	30

The parameters for this waveforms are randomly chosen. Thirty unique waveforms are required for the Long Pulse Radar Type waveforms. If more than 30 waveforms are used for the Long Pulse Radar Type wave forms, then each additional waveform must also be unique and not repeated from the previous waveforms.

Table 7 – Frequency Hopping Radar Test Waveform

Radar Type	Pulse Width (µsec)	PRI (µsec)	Pulses per Hop	Hopping Rate (kHz)	Hopping Sequence Length (msec)	Minimum Percentage of Successful Detection	Minimum Number of Trials
6	1	333	9	0.333	300	70%	30

For the Frequency Hopping Radar Type, the same Burst parameters are used for each wave form. The hopping sequence is different for each wave form and a 100-length segment is selected from the hopping sequence defined by the following algorithm:

The first frequency in a hopping sequence is selected randomly from the group of 475 integer frequencies from 5250–5724MHz.Next,the frequency that was just chosen is removed from the group and a frequency is randomly selected from the remaining 474 frequencies in the group. This process continues until all 475 frequencies are chosen for the set. For selection of a random frequency, the frequencies remaining within the group are always treated as equally likely.

Calibration of Radar Waveform

Radar Waveform Calibration Procedure

- 1) A 50 ohm load is connected in place of the spectrum analyzer, and the spectrum analyzer is connected to place of the master
- 2) The interference Radar Detection Threshold Level is -62dBm + 0dBi +1dB = -61dBm that had been taken into account the output power range and antenna gain.
- 3) The following equipment setup was used to calibrate the conducted radar waveform. A vector signal generator was utilized to establish the test signal level for radar type 0. During this process there were no transmissions by either the master or client device. The spectrum analyzer was switched to the zero spans (time domain) at the frequency of the radar waveform generator. Peak detection was

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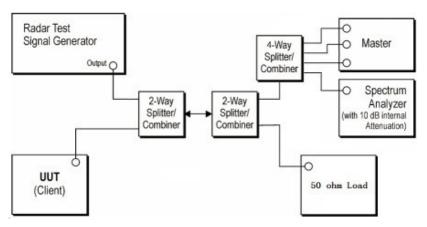


used. The spectrum analyzer resolution bandwidth (RBW) and video bandwidth (VBW) were set to 3 MHz. The spectrum analyzer had offset -1.0dB to compensate RF cable loss 1.0dB.

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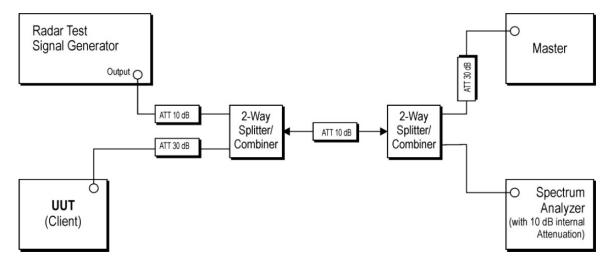
4) The vector signal generator amplitude was set so that the power level measured at the spectrum analyzer was - -62dBm + 0dBi +1dB = -61dBm. Capture the spectrum analyzer plots on short pulse radar waveform.

Conducted Calibration Setup



Test Configuration

Setup for Client with injection at the Master



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Test Procedure

Test Mode

- 1. The radar pulse generator is setup to provide a pulse at frequency that the master and client are operating. A type 0 radar pulse with a 1us pulse width and a 1428us PRI is used for the testing.
- 2. The vector signal generator is adjusted to provide the radar burst (18 pulses) at the level of approximately -61dBm at the antenna port of the master device
- 3. A trigger is provided from the pulse generator to the DFS monitoring system in order to capture the traffic and the occurrence of the radar pulse.
- 4. EUT will associate with the master at channel. The file "iperf.exe" specified by the FCC is streamed from the PC 2 through the master and the client device to the PC 1 and played in full motion video using Media Player Classic Ver. 6.4.8.6 in order to properly load the network for the entire period of the test.
- 5. When radar burst with a level equal to the DFS Detection Threshold +1dB is generated on the operating channel of the U-NII device. At time T0 the radar waveform generator sends a burst of pulse of the radar waveform at Detection Threshold +1dB.
- 6. Observe the transmissions of the EUT at the end of the radar Burst on the Operating Channel Measure and record the transmissions from the UUT during the observation time (Channel Move Time). One 15 seconds plot is reported for the Short Pulse Radar Type 0. The plot for the Short Pulse Radar Types start at the end of the radar burst. The Channel Move Time will be calculated based on the zoom in 600ms plot of the Short Pulse Radar Type
- 7. Measurement of the aggregate duration of the Channel Closed Transmission Time method. With the spectrum analyzer set to zero span tuned to the center frequency of the EUT operating channel at the radar simulated frequency, peak detection, and max hold, the dwell time per bin is given by: Dwell (0.3ms) =S (12000ms) / B (4000); where Dwell is the dwell time per spectrum analyzer sampling bin, S is sweep time and B is the number of spectrum analyzer sampling bins. An upper bound of the aggregate duration of the intermittent control signals of Channel Closing Transmission Time is calculated by: C (ms)= N X Dwell (0.3ms); where C is the Closing Time, N is the number of spectrum analyzer sampling bins (intermittent control signals) showing a U-NII transmission and Dwell is the dwell time per bin.
- 8. Measurement the EUT for more than 30 minutes following the channel move time to verify that no transmission or beacons occur on this channel.

Please refer to the clause 2.4	
Test Results	
☐ Passed	Not Applicable ■

