

Report No.: SZEM200700681005 Page: 298 of 580

Test Mode: 08; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



	: c	hamber								
ition	: 3	3m HORIZ	ZONTAL							
lo	: 0	06810CR	\06811C	R						
	: 5	6825 Bar	nd edge							
	: 5	G WIFI	11AC20							
		Cable	e Ant	Preamp	Read		Limit	0ver		
F	Fre	q Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
	MH	z dB	3 dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
5005	~~			40.05	403.00	404 07				
5825.	.00	0 8.23	34.93	42.35	103.26	104.07			реак	
5850.	.00	0 8.24	4 34.95	42.33	64.29	65.15	122.20	-57.05	peak	
5860.	.00	0 8.24	4 34.96	42.33	61.56	62.43	109.40	-46.97	peak	
	5825 5850 5860	: c ition: 3 lo : 6 : 5 Fre MH 5825.00 5850.00 5860.00	: chamber ition: 3m HORI lo : 06810CR : 5825 Ban : 5G WIFI Cable Freq Loss MHz dE 5825.000 8.23 5850.000 8.24	: chamber ition: 3m HORIZONTAL lo : 06810CR\06811C : 5825 Band edge : 5G WIFI 11AC20 Cable Ant Freq Loss Factor MHz dB dB/m 5825.000 8.23 34.93 5850.000 8.24 34.95 5860.000 8.24 34.96	: chamber ition: 3m HORIZONTAL lo : 06810CR\06811CR : 5825 Band edge : 5G WIFI 11AC20 Cable Ant Preamp Freq Loss Factor Factor MHz dB dB/m dB 5825.000 8.23 34.93 42.35 5850.000 8.24 34.95 42.33 5860.000 8.24 34.96 42.33	: chamber ition: 3m HORIZONTAL lo : 06810CR\06811CR : 5825 Band edge : 5G WIFI 11AC20 Cable Ant Preamp Read Freq Loss Factor Factor Level MHz dB dB/m dB dBuV 5825.000 8.23 34.93 42.35 103.26 5850.000 8.24 34.95 42.33 64.29 5860.000 8.24 34.96 42.33 61.56	: chamber ition: 3m HORIZONTAL lo : 06810CR\06811CR : 5825 Band edge : 5G WIFI 11AC20 Cable Ant Preamp Read Freq Loss Factor Factor Level Level MHz dB dB/m dB dBuV dBuV/m 5825.000 8.23 34.93 42.35 103.26 104.07 5850.000 8.24 34.95 42.33 64.29 65.15 5860.000 8.24 34.96 42.33 61.56 62.43	: chamber ition: 3m HORIZONTAL lo : 06810CR\06811CR : 5825 Band edge : 5G WIFI 11AC20 Cable Ant Preamp Read Limit Freq Loss Factor Factor Level Level Line MHz dB dB/m dB dBuV dBuV/m dBuV/m 5825.000 8.23 34.93 42.35 103.26 104.07 5850.000 8.24 34.95 42.33 64.29 65.15 122.20 5860.000 8.24 34.96 42.33 61.56 62.43 109.40	: chamber ition: 3m HORIZONTAL lo : 06810CR\06811CR : 5825 Band edge : 5G WIFI 11AC20 Cable Ant Preamp Read Limit Over Freq Loss Factor Factor Level Level Line Limit MHz dB dB/m dB dBuV dBuV/m dBuV/m dB 5825.000 8.23 34.93 42.35 103.26 104.07 5850.000 8.24 34.95 42.33 64.29 65.15 122.20 -57.05 5860.000 8.24 34.96 42.33 61.56 62.43 109.40 -46.97	: chamber ition: 3m HORIZONTAL lo : 06810CR\06811CR : 5825 Band edge : 5G WIFI 11AC20 Cable Ant Preamp Read Limit Over Freq Loss Factor Factor Level Level Line Limit Remark MHz dB dB/m dB dBuV dBuV/m dBuV/m dB 5825.000 8.23 34.93 42.35 103.26 104.07 peak 5850.000 8.24 34.95 42.33 64.29 65.15 122.20 -57.05 peak 5860.000 8.24 34.96 42.33 61.56 62.43 109.40 -46.97 peak



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Test Mode: 08; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



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Test Mode: 08; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Site	:	cha	amber								
Condi	ition:	Зm	HORIZ	ONTAL							
Job N	lo :	068	310CR\	06811CF	R						
Mode	:	575	55 Ban	d edge							
	:	5G	WIFI	11AC40							
			Cable	Ant	Preamp	Read		Limit	0ver		
	Fr	eq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
	M	Ήz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1	5715.0	00	8.22	34.82	42.42	64.77	65.39	109.40	-44.01	peak	
2	5725.0	00	8.22	34.83	42.41	70.35	70.99	122.20	-51.21	peak	
3	5755.0	00	8.22	34.86	42.39	99.53	100.22			peak	



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Test Mode: 08; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Site	:	cha	amber								
Condi	tion:	Зm	VERTI	CAL							
Job N	lo :	068	310CR\	06811CF	R						
Mode	:	575	55 Ban	d edge							
	:	5G	WIFI	11AC40							
			Cable	Ant	Preamp	Read		Limit	0ver		
	Fr	eq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
-											
	M	Hz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1	5715.0	00	8.22	34.82	42.42	69.96	70.58	109.40	-38.82	peak	
2	5725.0	00	8.22	34.83	42.41	74.82	75.46	122.20	-46.74	peak	
3	5755.0	00	8.22	34.86	42.39	103.53	104.22			peak	



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Test Mode: 08; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Site	:	cha	amber								
Condi	tion:	Зm	HORIZ	ONTAL							
Job N	lo :	068	310CR\	06811C	R						
Mode	:	579	95 Ban	d edge							
	:	5G	WIFI	11AC40							
			Cable	Ant	Preamp	Read		Limit	0ver		
	Fr	req	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
-											
	N	۱Hz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
4	F70F 0	000	0 22	74.00	42.27	00.30	100 10				
T	5/95.6	000	8.23	34.90	42.37	99.30	100.12			реак	
2	5850.0	000	8.24	34.95	42.33	63.00	63.86	122.20	-58.34	peak	
3	5860.0	000	8.24	34.96	42.33	64.85	65.72	109.40	-43.68	peak	



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Test Mode: 08; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Site	:	cha	amber								
Condi	ition:	Зm	VERTI	CAL							
Job N	lo :	068	310CR\	06811C	R						
Mode	:	579	95 Ban	d edge							
	:	5G	WIFI	11AC40							
			Cable	Ant	Preamp	Read		Limit	0ver		
	Fr	eq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
	M	Ήz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
			_								
1	5795.0	00	8.23	34.90	42.37	103.20	103.96			peak	
2	5850.0	00	8.24	34.95	42.33	66.62	67.48	122.20	-54.72	peak	
3	5860.0	00	8.24	34.96	42.33	64.16	65.03	109.40	-44.37	peak	



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Test Mode: 08; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Site	:	cha	mber								
Condi	ition:	Зm	HORIZ	ONTAL							
Job N	lo :	068	310CR\	06811C	R						
Mode	:	577	'5 Ban	d edge							
	:	5G	WIFI	11AC80							
			Cable	Ant	Preamp	Read		Limit	0ver		
	Fr	req	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
	M	۱Hz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
	F707 4		0.00	24.02	42.44	60.67	70.34	440.00	47 75		
1	5/23.1	.84	8.22	34.83	42.41	69.67	70.31	118.06	-4/./5	реак	
2	5775.0	000	8.22	34.88	42.38	96.14	96.86			peak	
3	5850.2	267	8.24	34.95	42.33	67.60	68.46	121.59	-53.13	peak	



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Test Mode: 08; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



:	cha	mber								
tion:	Зm	VERTI	CAL							
o :	068	310CR\	06811C	R						
:	577	75 Ban	d edge							
:	5G	WIFI	11AC80							
		Cable	Ant	Preamp	Read		Limit	0ver		
Fn	eq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
M	Hz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
	~ ~									
5/24.3	90	8.22	34.83	42.41	/3.48	/4.12	120.81	-46.69	peak	
5775.0	00	8.22	34.88	42.38	100.59	101.31			peak	
5849.6	50	8.24	34.95	42.33	71.58	72.44			peak	
	: tion: o : Fr 5724.3 5775.0 5849.6	: cha tion: 3m o : 068 : 577 : 5G Freq MHz 5724.390 5775.000 5849.650	: chamber tion: 3m VERTI o : 06810CR\ : 5775 Ban : 5G WIFI Cable Freq Loss MHz dB 5724.390 8.22 5775.000 8.22 5849.650 8.24	: chamber tion: 3m VERTICAL o : 06810CR\06811CA : 5775 Band edge : 5G WIFI 11AC80 Cable Ant Freq Loss Factor MHz dB dB/m 5724.390 8.22 34.83 5775.000 8.22 34.88 5849.650 8.24 34.95	: chamber tion: 3m VERTICAL o : 06810CR\06811CR : 5775 Band edge : 5G WIFI 11AC80 Cable Ant Preamp Freq Loss Factor Factor MHz dB dB/m dB 5724.390 8.22 34.83 42.41 5775.000 8.22 34.88 42.38 5849.650 8.24 34.95 42.33	: chamber tion: 3m VERTICAL o : 06810CR\06811CR : 5775 Band edge : 5G WIFI 11AC80 Cable Ant Preamp Read Freq Loss Factor Factor Level MHz dB dB/m dB dBuV 5724.390 8.22 34.83 42.41 73.48 5775.000 8.22 34.88 42.38 100.59 5849.650 8.24 34.95 42.33 71.58	<pre>: chamber tion: 3m VERTICAL o : 06810CR\06811CR : 5775 Band edge : 5G WIFI 11AC80 Cable Ant Preamp Read Freq Loss Factor Factor Level Level MHz dB dB/m dB dBuV dBuV/m 5724.390 8.22 34.83 42.41 73.48 74.12 5775.000 8.22 34.88 42.38 100.59 101.31 5849.650 8.24 34.95 42.33 71.58 72.44</pre>	<pre>: chamber tion: 3m VERTICAL o : 06810CR\06811CR : 5775 Band edge : 5G WIFI 11AC80 Cable Ant Preamp Read Limit Freq Loss Factor Factor Level Level Line MHz dB dB/m dB dBuV dBuV/m dBuV/m 5724.390 8.22 34.83 42.41 73.48 74.12 120.81 5775.000 8.22 34.88 42.38 100.59 101.31 5849.650 8.24 34.95 42.33 71.58 72.44</pre>	: chamber tion: 3m VERTICAL o : 06810CR\06811CR : 5775 Band edge : 5G WIFI 11AC80 Cable Ant Preamp Read Limit Over Freq Loss Factor Factor Level Level Line Limit MHz dB dB/m dB dBuV dBuV/m dBuV/m dB 5724.390 8.22 34.83 42.41 73.48 74.12 120.81 -46.69 5775.000 8.22 34.88 42.38 100.59 101.31 5849.650 8.24 34.95 42.33 71.58 72.44	<pre>: chamber tion: 3m VERTICAL o : 06810CR\06811CR : 5775 Band edge : 5G WIFI 11AC80 Cable Ant Preamp Read Limit Over Freq Loss Factor Factor Level Level Line Limit Remark MHz dB dB/m dB dBuV dBuV/m dBuV/m dB 5724.390 8.22 34.83 42.41 73.48 74.12 120.81 -46.69 peak 5775.000 8.22 34.88 42.38 100.59 101.31 peak 5849.650 8.24 34.95 42.33 71.58 72.44 peak</pre>



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#### 7.10 Frequency Stability

Test Requirement	
Test Method:	

47 CFR Part 15, Subpart C 15.407 (g) ANSI C63.10 (2013) Section 6.8

#### 7.10.1 E.U.T. Operation

**Operating Environment:** 

Temperature: 24.6 °C Humidity:

54.3 % RH Atmospheric Pressure:

1010 mbar

#### 7.10.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	05	TX mode (UNII Band I)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case is recorded in the report.
Final test	06	TX mode (UNII Band II-A)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.
Final test	07	TX mode (UNII Band II-C)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.
Final test	08	TX mode (UNII Band III)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.



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7.10.3 Test Setup Diagram



### **Ground Reference Plane**

7.10.4 Measurement Procedure and Data

Please Refer To Appendix For Details



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#### 7.11 Channel Move Time

Test Requirement	KDB 905462 D02 Section 5.1
Test Method:	KDB 905462 D02 Section 7.8.3

#### Limit:

Test item	Limit	Applicability			
		Master Device or client with Radar Detection	Client without Radar Detection		
Non-occupancy period	Minimum 30 minutes	Yes	Not required		
Channel Availability Check Time	60 seconds	Yes	Not required		
Channel Move Time	10 seconds See Note 1.	Yes	Yes		
Channel Closing Transmission Time	200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period. See Notes 1 and 2.	Yes	Yes		
U-NII Detection Bandwidth	Minimum 100% of the U-NII 99% transmission power bandwidth. See Note 3.	Yes	Not required		

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 to facilitate 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.

#### 7.11.1 E.U.T. Operation

Operating Environment:

Temperature: 22.5 °C

C Humidity:

55.1 % RH Atmospheric Pressure:

1010 mbar





7.11.2 Test Mode Description

# SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

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Pre-scan / Final test	Mode Code	Description
Final test	06	TX mode (UNII Band II-A)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case is recorded in the report.
Final test	07	TX mode (UNII Band II-C)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.



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#### 7.11.3 Test Setup Diagram

Shenz





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#### 7.11.4 Measurement Procedure and Data

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 Appendix For Details



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#### 7.12 Channel Closing Transmission Time

Test Requirement Test Method: KDB 905462 D02 Section 5.1 KDB 905462 D02 Section 7.8.3

Limit:

Test item	Limit	Applicability		
		Master Device or client with Radar Detection	Client without Radar Detection	
Non-occupancy period	Minimum 30 minutes	Yes	Not required	
Channel Availability Check Time	60 seconds	Yes	Not required	
Channel Move Time	10 seconds See Note 1.	Yes	Yes	
Channel Closing Transmission Time	200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period. See Notes 1 and 2.	Yes	Yes	
U-NII Detection Bandwidth	Minimum 100% of the U-NII 99% transmission power bandwidth. See Note 3.	Yes	Not required	

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 to facilitate 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.

#### 7.12.1 E.U.T. Operation

Operating Environment: Temperature: 22.5 °C Humidity: 55.1 % RH Atmospheric Pressure: 1010 mbar



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7.12.2 Test Mode Description

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Pre-scan / Final test	Mode Code	Description
Final test	06	TX mode (UNII Band II-A)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.
Final test	07	TX mode (UNII Band II-C)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.



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#### 7.12.3 Test Setup Diagram

Shenz





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#### 7.12.4 Measurement Procedure and Data

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 Appendix For Details



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### 8 Test Setup Photo

Please refer to setup photos.

### 9 EUT Constructional Details (EUT Photos)

Please Refer to external and internal photos for details.



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### **10Appendix**

#### Appendix for 15.407

#### 1. Duty Cycle

#### 1.1 Test Result

Test Mode	Channel Frequency (MHz)	ТХ Туре	ANT No.	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)
802.11a	5180	SISO	1	2.063	2.095	98.47	0.07
	5200	SISO	1	2.063	2.095	98.47	0.07
	5240	SISO	1	2.063	2.095	98.47	0.07
	5260	SISO	1	2.064	2.096	98.47	0.07
	5300	SISO	1	2.064	2.096	98.47	0.07
	5320	SISO	1	2.064	2.096	98.47	0.07
	5500	SISO	1	2.063	2.095	98.47	0.07
	5580	SISO	1	2.064	2.096	98.47	0.07
	5600	SISO	1	2.064	2.096	98.47	0.07
	5700	SISO	1	2.064	2.096	98.47	0.07
	5745	SISO	1	2.064	2.096	98.47	0.07
	5785	SISO	1	2.064	2.095	98.52	0.06
	5825	SISO	1	2.063	2.095	98.47	0.07
	5180	MIMO	1	1.920	1.952	98.36	0.07
	5200	MIMO	1	1.920	1.952	98.36	0.07
	5240	MIMO	1	1.920	1.952	98.36	0.07
	5260	MIMO	1	1.920	1.952	98.36	0.07
	5300	MIMO	1	1.920	1.952	98.36	0.07
	5320	MIMO	1	1.920	1.952	98.36	0.07
802.11n(HT20)	5500	MIMO	1	1.920	1.952	98.36	0.07
	5580	MIMO	1	1.920	1.952	98.36	0.07
	5600	MIMO	1	1.920	1.952	98.36	0.07
	5700	MIMO	1	1.919	1.951	98.36	0.07
	5745	MIMO	1	1.920	1.952	98.36	0.07
	5785	MIMO	1	1.919	1.951	98.36	0.07
	5825	MIMO	1	1.920	1.952	98.36	0.07
	5190	MIMO	1	1.239	1.261	98.26	0.08
802.11n(HT40)	5230	MIMO	1	1.240	1.262	98.26	0.08
	5270	MIMO	1	1.240	1.262	98.26	0.08
	5310	MIMO	1	1.240	1.262	98.26	0.08
	5510	MIMO	1	1.240	1.262	98.26	0.08
	5550	MIMO	1	1.240	1.263	98.18	0.08
	5590	MIMO	1	1.240	1.262	98.26	0.08
	5670	MIMO	1	1.240	1.262	98.26	0.08
	5755	MIMO	1	1.240	1.262	98.26	0.08



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	5795	MIMO	1	1.240	1.262	98.26	0.08
	5180	MIMO	1	1.931	1.967	98.17	0.08
	5200	MIMO	1	1.935	1.966	98.42	0.07
	5240	MIMO	1	1.934	1.967	98.32	0.07
	5260	MIMO	1	1.931	1.966	98.22	0.08
	5300	MIMO	1	1.930	1.970	97.97	0.09
	5320	MIMO	1	1.931	1.966	98.22	0.08
802.11ac(VHT20)	5500	MIMO	1	1.934	1.967	98.32	0.07
	5580	MIMO	1	1.930	1.970	97.97	0.09
	5600	MIMO	1	1.926	1.963	98.12	0.08
	5700	MIMO	1	1.930	1.970	97.97	0.09
	5745	MIMO	1	1.930	1.970	97.97	0.09
	5785	MIMO	1	1.935	1.966	98.42	0.07
	5825	MIMO	1	1.934	1.965	98.42	0.07
	5190	MIMO	1	1.248	1.269	98.35	0.07
	5230	MIMO	1	1.248	1.269	98.35	0.07
	5270	MIMO	1	1.248	1.270	98.27	0.08
	5310	MIMO	1	1.248	1.269	98.35	0.07
802.11ac(VHT40)	5510	MIMO	1	1.248	1.270	98.27	0.08
	5550	MIMO	1	1.248	1.270	98.27	0.08
	5590	MIMO	1	1.248	1.269	98.35	0.07
	5670	MIMO	1	1.249	1.271	98.27	0.08
	5755	MIMO	1	1.249	1.270	98.35	0.07
	5795	MIMO	1	1.249	1.271	98.27	0.08
	5210	MIMO	1	0.684	0.706	96.88	0.14
	5290	MIMO	1	0.684	0.706	96.88	0.14
802.11ac(VHT80)	5530	MIMO	1	0.684	0.706	96.88	0.14
	5610	MIMO	1	0.684	0.706	96.88	0.14
	5775	MIMO	1	0.684	0.705	97.02	0.13



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#### 1.2 Test Graph







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-60

-70 0.0

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Time (ms)





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#### 2. Bandwidth

#### 2.1 Test Result

Tost Modo	Frequency (MHz)	ТХ Туре	ANT No.	Emission I	Verdict	
Test Mode				Test Result (MHz)	Limits (MHz)	Verdict
	5180	SISO	1	21.197	Only for Report Use	PASS
	5200	SISO	1	21.129	Only for Report Use	PASS
	5240	SISO	1	21.159	Only for Report Use	PASS
	5260	SISO	1	21.194	Only for Report Use	PASS
	5300	SISO	1	21.275	Only for Report Use	PASS
802.11a	5320	SISO	1	21.086	Only for Report Use	PASS
	5500	SISO	1	21.342	Only for Report Use	PASS
	5580	SISO	1	21.216	Only for Report Use	PASS
	5600	SISO	1	21.308	Only for Report Use	PASS
	5700	SISO	1	21.318	Only for Report Use	PASS
	5745	SISO	1	16.353	≥0.5	PASS
	5785	SISO	1	16.358	≥0.5	PASS
	5825	SISO	1	16.362	≥0.5	PASS
802.11n(HT20)	5180	MIMO	1	21.360	Only for Report Use	PASS
	5200	MIMO	1	21.479	Only for Report Use	PASS
	5240	MIMO	1	21.330	Only for Report Use	PASS
	5260	MIMO	1	21.367	Only for Report Use	PASS
	5300	MIMO	1	21.294 Only for Report Use		PASS
	5320	MIMO	1	21.366	Only for Report Use	PASS
	5500	MIMO	1	21.454	Only for Report Use	PASS
	5580	MIMO	1	21.501	Only for Report Use	PASS
	5600	MIMO	1	21.495	Only for Report Use	PASS



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	5700	MIMO	1	21.430	Only for Report Use	PASS
	5745	MIMO	1	17.320	≥0.5	PASS
	5785	MIMO	1	17.215	≥0.5	PASS
	5825	MIMO	1	17.556	≥0.5	PASS
	5190	MIMO	1	72.873	Only for Report Use	PASS
	5230	MIMO	1	44.853	Only for Report Use	PASS
	5270	MIMO	1	54.617	Only for Report Use	PASS
	5310	MIMO	1	40.062	Only for Report Use	PASS
802.11n(HT40)	5510	MIMO	1	40.127	Only for Report Use	PASS
	5550	MIMO	1	54.462	Only for Report Use	PASS
	5590	MIMO	1	47.527	Only for Report Use	PASS
	5670	MIMO	1	40.063	Only for Report Use PASS	
	5755	MIMO	1	35.846	≥0.5	PASS
	5795	MIMO	1	36.018	≥0.5	PASS
	5180	MIMO	1	22.481	Only for Report Use	PASS
	5200	MIMO	1	21.388	Only for Report Use	PASS
	5240	MIMO	1	21.443	Only for Report Use	PASS
	5260	MIMO	1	21.525	Only for Report Use	PASS
	5300	MIMO	1	21.388	Only for Report Use	PASS
802.11ac(VHT20)	5320	MIMO	1	21.429	Only for Report Use	PASS
	5500	MIMO	1	21.623	Only for Report Use	PASS
	5580	MIMO	1	21.384	Only for Report Use	PASS
	5600	MIMO	1	21.493	Only for Report Use	PASS
	5700	MIMO	1	21.605	Only for Report Use	PASS
	5745	MIMO	1	17.304	≥0.5	PASS
	5785	MIMO	1	17.552	≥0.5	PASS
	5825	MIMO	1	17.295	≥0.5	PASS
802.11ac(VHT40)	5190	MIMO	1	53.420	Only for Report Use	PASS



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	5230	MIMO	1	40.352	Only for Report Use	PASS
	5270	MIMO	1	39.962	Only for Report Use	PASS
	5310	MIMO	1	40.158	Only for Report Use	PASS
	5510	MIMO	1	40.121	Only for Report Use	PASS
	5550	MIMO	1	41.871	Only for Report Use	PASS
	5590	MIMO	1	41.595	Only for Report Use	PASS
	5670	MIMO	1	40.031	Only for Report Use	PASS
	5755	MIMO	1	35.661	≥0.5	PASS
	5795	MIMO	1	36.035	≥0.5	PASS
	5210	MIMO	1	92.231	Only for Report Use	PASS
802.11ac(VHT80)	5290	MIMO	1	81.715	Only for Report Use	PASS
	5530	MIMO	1	83.020	Only for Report Use	PASS
	5610	MIMO	1	84.158	Only for Report Use	PASS
	5775	MIMO	1	75.437	≥0.5	PASS

Test Made	Frequency (MHz)	ТХ Туре	ANT No.	99% Occupied Bandwidth		
Test Wode				Test Result (MHz)		
	5180	SISO	1	17.167	Only for Report Use	
	5200	SISO	1	17.131	Only for Report Use	
	5240	SISO	1	17.126	Only for Report Use	
	5260	SISO	1	17.210	Only for Report Use	
	5300	SISO	1	17.276	Only for Report Use	
	5320	SISO	1	17.142	Only for Report Use	
802.11a	5500	SISO	1	17.295	Only for Report Use	
	5580	SISO	1	17.147	Only for Report Use	
	5600	SISO	1	17.259	Only for Report Use	
	5700	SISO	1	17.212	Only for Report Use	
	5745	SISO	1	17.304	Only for Report Use	
	5785	SISO	1	17.351	Only for Report Use	
	5825	SISO	1	17.352	Only for Report Use	
802.11n(HT20)	5180	MIMO	1	18.073	Only for Report Use	
	5200	MIMO	1	18.091	Only for Report Use	
	5240	MIMO	1	18.096	Only for Report Use	
	5260	MIMO	1	18.148	Only for Report Use	
	5300	MIMO	1	18.103	Only for Report Use	



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					•
	5320	MIMO	1	18.121	Only for Report Use
	5500	MIMO	1	18.189	Only for Report Use
	5580	MIMO	1	18.104	Only for Report Use
	5600	MIMO	1	18.211	Only for Report Use
	5700	MIMO	1	18.122	Only for Report Use
	5745	MIMO	1	18.571	Only for Report Use
	5785	MIMO	1	18.491	Only for Report Use
	5825	MIMO	1	18.518	Only for Report Use
	5190	MIMO	1	41.433	Only for Report Use
	5230	MIMO	1	36.950	Only for Report Use
	5270	MIMO	1	37.301	Only for Report Use
	5310	MIMO	1	36.795	Only for Report Use
902 11p(UT40)	5510	MIMO	1	36.812	Only for Report Use
оо <u>г</u> .тп(пт40)	5550	MIMO	1	37.614	Only for Report Use
	5590	MIMO	1	37.265	Only for Report Use
	5670	MIMO	1	36.720	Only for Report Use
	5755	MIMO	1	37.866	Only for Report Use
	5795	MIMO	1	38.489	Only for Report Use
	5180	MIMO	1	18.502	Only for Report Use
	5200	MIMO	1	18.229	Only for Report Use
	5240	MIMO	1	18.150	Only for Report Use
	5260	MIMO	1	18.158	Only for Report Use
	5300	MIMO	1	18.134	Only for Report Use
	5320	MIMO	1	18.087	Only for Report Use
802.11ac(VHT20)	5500	MIMO	1	18.156	Only for Report Use
	5580	MIMO	1	18.097	Only for Report Use
	5600	MIMO	1	18.163	Only for Report Use
	5700	MIMO	1	18.140	Only for Report Use
	5745	MIMO	1	18.593	Only for Report Use
	5785	MIMO	1	18.521	Only for Report Use
	5825	MIMO	1	18.525	Only for Report Use
	5190	MIMO	1	37.093	Only for Report Use
802.11ac(VHT40)	5230	MIMO	1	36.909	Only for Report Use
	5270	MIMO	1	36.848	Only for Report Use
	5310	MIMO	1	36.761	Only for Report Use
	5510	MIMO	1	36.758	Only for Report Use
	5550	MIMO	1	36.913	Only for Report Use
	5590	MIMO	1	37.229	Only for Report Use
	5670	MIMO	1	36.679	Only for Report Use
	5755	MIMO	1	37.417	Only for Report Use
	5795	MIMO	1	37.897	Only for Report Use
	5210	MIMO	1	75.756	Only for Report Use
802.11ac(VHT80)	5290	MIMO	1	75.421	Only for Report Use
	5530	MIMO	1	75.469	Only for Report Use



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5610	MIMO	1	75.643	Only for Report Use
5775	MIMO	1	76.029	Only for Report Use

#### 2.2 Test Graph - Emission Bandwidth





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#### 2.3 Test Graph - 99% Occupied Bandwidth





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