

EMC-TRF-01 Rev 1.1

Report No.: GZCR240800092303 97 of 220 Page:

Test Mode: 01; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low





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1 \* 5670.000 96.63 32.64 5.24 36.78 97.73 68.20 29.53 HORIZONTAL peak 5725.000 44.93 32.65 5.29 36.78 46.09 68.20 -22.11 HORIZONTAL peak 5777.733 49.73 32.66 5.33 36.79 50.93 68.20 -17.27 HORIZONTAL peak



2 3

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1 *	5610.000	84.36	32.63	5.21	36.78	85.42	68.20	17.22	VERTICAL	peak	
2	5725.000	45.15	32.65	5.29	36.78	46.31	68.20	-21.89	VERTICAL	peak	
3	5757.965	48.62	32.66	5.31	36.79	49.80	68.20	-18.40	VERTICAL	peak	



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1	*	5610.000	93.34	32.63	5.21	36.78	94.40	68.20	26.20	HORIZONTAL	peak
2		5725.000	47.74	32.65	5.29	36.78	48.90	68.20	-19.30	HORIZONTAL	peak
3		5759.593	51.21	32.66	5.31	36.79	52.39	68.20	-15.81	HORIZONTAL	peak



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Report No.: GZCR240800092303 116 of 220 Page:

Test Mode: 02; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High





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EMC-TRF-01 Rev 1.1 Report No.: GZCR240800092303 117 of 220 Page:

Test Mode: 02; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low





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Test Mode: 02; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low





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EMC-TRF-01 Rev 1.1 Report No.: GZCR240800092303 119 of 220 Page:

Test Mode: 04; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low





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Test Mode: 04; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low





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MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB			
5602.717	46.68	32.62	5.20	36.78	47.72	68.20	-20.48	VERTICAL	peak	
5661.788	46.52	32.64	5.24	36.78	47.62	76.95	-29.33	VERTICAL	peak	
5825.000	90.42	32.67	5.36	36.79	91.66	125.20	-33.54	VERTICAL	peak	
5878.292	46.45	32.68	5.39	36.79	47.73	102.82	-55.09	VERTICAL	peak	
5943.511	45.89	32.69	5.42	36.80	47.20	68.20	-21.00	VERTICAL	peak	
	MHz 5602.717 5661.788 5825.000 5878.292 5943.511	MHz dBuV 5602.717 46.68 5661.788 46.52 5825.000 90.42 5878.292 46.45 5943.511 45.89	MHz dBuV dB/m 5602.717 46.68 32.62 5661.788 46.52 32.64 5825.000 90.42 32.67 5878.292 46.45 32.68 5943.511 45.89 32.69	MHz dBuV dB/m dB   5602.717 46.68 32.62 5.20   5661.788 46.52 32.64 5.24   5825.000 90.42 32.67 5.36   5878.292 46.45 32.68 5.39   5943.511 45.89 32.69 5.42	MHz dBuV dB/m dB dB   5602.717 46.68 32.62 5.20 36.78   5661.788 46.52 32.64 5.24 36.78   5825.000 90.42 32.67 5.36 36.79   5878.292 46.45 32.68 5.39 36.79   5943.511 45.89 32.69 5.42 36.80	MHz dBuV dB/m dB dB dB dBuV/m   5602.717 46.68 32.62 5.20 36.78 47.72   5661.788 46.52 32.64 5.24 36.78 47.62   5825.000 90.42 32.67 5.36 36.79 91.66   5878.292 46.45 32.68 5.39 36.79 47.73   5943.511 45.89 32.69 5.42 36.80 47.20	MHz dBuV dB/m dB dB dB dBuV/m dBuV/m   5602.717 46.68 32.62 5.20 36.78 47.72 68.20   5661.788 46.52 32.64 5.24 36.78 47.62 76.95   5825.000 90.42 32.67 5.36 36.79 91.66 125.20   5878.292 46.45 32.68 5.39 36.79 47.73 102.82   5943.511 45.89 32.69 5.42 36.80 47.20 68.20	MHz dBuV dB/m dB dB dB dBuV/m dBuV/m dB   5602.717 46.68 32.62 5.20 36.78 47.72 68.20 -20.48   5661.788 46.52 32.64 5.24 36.78 47.62 76.95 -29.33   5825.000 90.42 32.67 5.36 36.79 91.66 125.20 -33.54   5878.292 46.45 32.68 5.39 36.79 47.73 102.82 -55.09   5943.511 45.89 32.69 5.42 36.80 47.20 68.20 -21.00	MHz dBuV dB/m dB dB dB dBuV/m dBuV/m dB   5602.717 46.68 32.62 5.20 36.78 47.72 68.20 -20.48 VERTICAL   5661.788 46.52 32.64 5.24 36.78 47.62 76.95 -29.33 VERTICAL   5825.000 90.42 32.67 5.36 36.79 91.66 125.20 -33.54 VERTICAL   5878.292 46.45 32.68 5.39 36.79 47.73 102.82 -55.09 VERTICAL   5943.511 45.89 32.69 5.42 36.80 47.20 68.20 -21.00 VERTICAL	MHz dBuV dB/m dB dB dB dBuV/m dBuV/m dB   5602.717 46.68 32.62 5.20 36.78 47.72 68.20 -20.48 VERTICAL peak   5661.788 46.52 32.64 5.24 36.78 47.62 76.95 -29.33 VERTICAL peak   5825.000 90.42 32.67 5.36 36.79 91.66 125.20 -33.54 VERTICAL peak   5878.292 46.45 32.68 5.39 36.79 47.73 102.82 -55.09 VERTICAL peak   5943.511 45.89 32.69 5.42 36.80 47.20 68.20 -21.00 VERTICAL peak



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Test Mode: 04; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High







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Test Mode: 04; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



		abar	00, m			abav, m	abav,	ab			
1	5613.937	47.56	32.63	5.21	36.78	48.62	68.20	-19.58	VERTICAL	peak	
2	5716.974	50.29	32.65	5.27	36.78	51.43	109.95	-58.52	VERTICAL	peak	
3	5755.000	86.30	32.65	5.30	36.79	87.46	125.20	-37.74	VERTICAL	peak	
4	5915.472	46.81	32.69	5.41	36.80	48.11	75.24	-27.13	VERTICAL	peak	
5	5942.430	46.13	32.69	5.42	36.80	47.44	68.20	-20.76	VERTICAL	peak	



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Test Mode: 04; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low





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Test Mode: 04; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



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Test Mode: 04; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low





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5914.396 50.83 32.69 5.41 36.80 52.13 76.04 -23.91 HORIZONTAL peak 5926.240 49.33 32.69 5.41 36.80 50.63 68.20 -17.57 HORIZONTAL peak



4

5

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EMC-1	FRF-01 Rev 1	.1		Report No.: Page:	GZCR2408000923 129 of 220	03
7.6	Duty Cycl Test Require Test Method	e ement I:	KDB 789033 D02 II B 1 KDB 789033 II B 1			
7.6.1	<b>E.U.T. Oper</b> Operating E Temperature	ration nvironment: e: 20.3 °	°C Humidity: 53.9 %	RH Atmosph	eric Pressure: 1013	mbar
7.6.2	Test Mode	Description				
	Pre-scan / Final test	Mode Code	Description			
	Final test	01	TX mode (U-NII-1)_Keep the modulation types. All data ra and found the data rate @ 6 rate @ MCS0 is the worst ca is the worst case of IEEE 802 case of IEEE 802.11ac(VHT IEEE 802.11ac(VHT40); data 802.11ac(VHT80), final test worse data rates. Only the data	EUT in continuousl tes for each modulat Mbps is the worst ca se of IEEE 802.11n 2.11n(HT40); data ra 20); data rate @ MC a rate @ MCS0 is th nodes are consideri ata of worst case is	y transmitting mode w tion type have been te use of IEEE 802.11a; c (HT20); data rate @ M ate @ MCS0 is the wo S0 is the worst case of e worst case of IEEE ng the modulation and recorded in the report.	rith all ested lata ICS0 orst of
	Final test	02	TX mode (U-NII-2A)_Keep th all modulation types.All data tested and found the data rat data rate @ MCS0 is the wo MCS0 is the worst case of IE worst case of IEEE 802.11ac of IEEE 802.11ac(VHT40); d 802.11ac(VHT80), final test worse data rates. Only the data	e EUT in continuou rates for each modu e @ 6Mbps is the w st case of IEEE 802 EE 802.11n(HT40); (VHT20); data rate ata rate @ MCS0 is nodes are consideri ata of worst case is	sly transmitting mode lation type have been orst case of IEEE 802 2.11n(HT20); data rate data rate @ MCS0 is @ MCS0 is the worst the worst case of IEE ng the modulation and recorded in the report.	with 2.11a; @ the case E
	Final test	03	TX mode (U-NII-2C)_Keep th all modulation types.All data tested and found the data rat data rate @ MCS0 is the wo MCS0 is the worst case of IE worst case of IEEE 802.11ac of IEEE 802.11ac(VHT40); d 802.11ac(VHT80), final test worse data rates. Only the data	e EUT in continuou rates for each modu e @ 6Mbps is the w st case of IEEE 802 EE 802.11n(HT40); (VHT20); data rate ata rate @ MCS0 is nodes are consideri ata of worst case is	sly transmitting mode lation type have been orst case of IEEE 802 11n(HT20); data rate data rate @ MCS0 is @ MCS0 is the worst the worst case of IEE ng the modulation and recorded in the report.	with 2.11a; @ the case E
	Final test	04	TX mode (U-NII-3)_Keep the modulation types.All data rat and found the data rate @ 60 rate @ MCS0 is the worst ca is the worst case of IEEE 802 case of IEEE 802.11ac(VHT	EUT in continuousl es for each modulat Mbps is the worst ca se of IEEE 802.11n 2.11n(HT40); data ra 20); data rate @ MC	y transmitting mode w ion type have been tes ise of IEEE 802.11a; c (HT20); data rate @ M ate @ MCS0 is the wo S0 is the worst case c	rith all sted lata ICS0 rst of



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IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.

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#### 7.6.3 Test Setup Diagram



**Ground Reference Plane** 

## 7.6.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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EMC-T	RF-01 Rev 1	.1			Report No.: Page:	GZCR24080 131 of 220	009230	)3
7.7	99% Banc Test Require Test Method	<b>lwidth</b> ement I:	N/A KDB 789033 II D					
7.7.1	E.U.T. Oper Operating E Temperature	<b>ation</b> nvironment: e: 20.3 °	°C Humidity:	53.9 % RH	Atmosphe	ric Pressure:	1013	mbar
7.7.2	<b>Test Mode</b> I Pre-scan /	<b>Description</b> Mode	Description					
	Final test	Code	Description					
	Final test	01	TX mode (U-NII-1)_k modulation types. All and found the data ra rate @ MCS0 is the is the worst case of I case of IEEE 802.11 IEEE 802.11ac(VHT 802.11ac(VHT80), fir worse data rates. On	Keep the EUT in data rates for e ate @ 6Mbps is worst case of IE EEE 802.11n(H ac(VHT20); data 40); data rate @ nal test modes a hly the data of w	continuously each modulati the worst cas EE 802.11n( T40); data ra a rate @ MCS MCS0 is the are considerin orst case is r	v transmitting i ion type have se of IEEE 802 HT20); data ra te @ MCS0 is S0 is the wors a worst case o ng the modula ecorded in the	mode with been tes 2.11a; da ate @ Mo the wor t case of f IEEE tion and e report.	th all sted ata CS0 st f
	Final test	02	TX mode (U-NII-2A)_ all modulation types. tested and found the data rate @ MCS0 is MCS0 is the worst ca worst case of IEEE 8 of IEEE 802.11ac(VH 802.11ac(VHT80), fir worse data rates. On	Keep the EUT All data rates fo data rate @ 6M the worst case ase of IEEE 802 02.11ac(VHT20 1T40); data rate nal test modes a hly the data of w	in continuous r each modul lbps is the wo of IEEE 802 .11n(HT40); ); data rate ( @ MCS0 is are considerin orst case is r	sty transmitting ation type hav prst case of IE 11n(HT20); d data rate @ M @ MCS0 is the the worst case og the modula ecorded in the	y mode v ve been EE 802. ata rate ICS0 is t e worst c e of IEEE tion and e report.	vith 11a; @ the tase
	Final test	03	TX mode (U-NII-2C)_ all modulation types. tested and found the data rate @ MCS0 is MCS0 is the worst ca worst case of IEEE 8 of IEEE 802.11ac(VH 802.11ac(VHT80), fin worse data rates. On	Keep the EUT All data rates fo data rate @ 6M the worst case ase of IEEE 802 02.11ac(VHT20 1T40); data rate nal test modes a ly the data of w	in continuous r each modul lbps is the wo of IEEE 802 11n(HT40); @ MCS0 is are considerin orst case is r	sly transmitting ation type have orst case of IE 11n(HT20); d data rate @ M @ MCS0 is the the worst case og the modula ecorded in the	y mode v re been EE 802. ata rate ICS0 is t worst c of IEEE tion and preport.	vith 11a; @ :he :ase <u>=</u>
	Final test	04	TX mode (U-NII-3)_k modulation types.All and found the data ra rate @ MCS0 is the is the worst case of I case of IEEE 802.11 IEEE 802.11ac(VHT 802.11ac(VHT80), fir worse data rates. On	Keep the EUT in data rates for ea ate @ 6Mbps is worst case of IE EEE 802.11n(H ac(VHT20); data 40); data rate @ nal test modes a hly the data of w	continuously ach modulation the worst case EE 802.11n( T40); data ra a rate @ MCS MCS0 is the are considerin orst case is r	v transmitting i on type have to se of IEEE 802 HT20); data ra te @ MCS0 is S0 is the wors e worst case o og the modula ecorded in the	mode with been tes 2.11a; da ate @ Mo the wor t case of f IEEE tion and e report.	th all ted ata CS0 st f



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#### 7.7.3 Test Setup Diagram



Ground Reference Plane

## 7.7.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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EMC-	TRF-01 Rev 1	1.1					Report No.: Page:	GZCR24080 133 of 220	000923	03
7.8	<b>3 26dB Emission ba</b> Test Requirement Test Method:			<b>dwidth</b> 47 CFR KDB 78	Part 15, Sub 9033 D02 II (	part E 15.407 (a C 1	a)			
7.8.1	.1 E.U.T. Operation Operating Environment: Temperature: 20.3			°C	Humidity:	53.9 % RH	Atmosphe	eric Pressure:	1013	mbar
7.8.2	<b>Test Mode</b> Pre-scan / Final test	<b>Descri</b> Mode Code	iption	Descrip	tion					
	Final test	01		TX mod modula and fou rate @ is the w case of IEEE 80 802.11a worse of	le (U-NII-1)_H tion types. Al nd the data r MCS0 is the orst case of l IEEE 802.11 02.11ac(VHT ac(VHT80), fi lata rates. Or	Keep the EUT in I data rates for o ate @ 6Mbps is worst case of IE EEE 802.11n(H ac(VHT20); dat 40); data rate @ nal test modes a nly the data of w	n continuousl each modulat the worst ca EEE 802.11n( IT40); data ra a rate @ MC MCS0 is the are considering orst case is n	y transmitting ion type have se of IEEE 80 (HT20); data rate @ MCS0 is S0 is the wors e worst case of ng the modula recorded in the	mode w been te 2.11a; d ate @ N s the wo of case c of IEEE tion anc e report.	ith all sted lata ICS0 irst of
	Final test	02		TX mod all mod tested a data rat MCS0 i worst ca of IEEE 802.11a worse c	le (U-NII-2A) ulation types. and found the e @ MCS0 is s the worst c ase of IEEE 8 802.11ac(VH ac(VHT80), fi lata rates. Or	Keep the EUT All data rates for data rate @ 6M the worst case ase of IEEE 802 302.11ac(VHT2 HT40); data rate nal test modes a hly the data of w	in continuous or each modu Mbps is the w of IEEE 802 2.11n(HT40); 0); data rate @ MCS0 is are considerin orst case is n	sly transmitting lation type har orst case of IE .11n(HT20); d data rate @ M @ MCS0 is the the worst case ng the modula recorded in the	g mode ve been EE 802 lata rate //CS0 is e worst e of IEE ttion anc e report.	with 2.11a; @ the case E d
	Final test	03		TX mod all mod tested a data rat MCS0 i worst ca of IEEE 802.11a worse c	le (U-NII-2C) ulation types and found the e @ MCS0 is s the worst c ase of IEEE 8 802.11ac(VH ac(VHT80), fi lata rates. Or	Keep the EUT All data rates for data rate @ 6M the worst case ase of IEEE 802 02.11ac(VHT20 1T40); data rate nal test modes a hly the data of w	in continuous or each modu Mbps is the w of IEEE 802 2.11n(HT40); 0); data rate @ MCS0 is are considering yorst case is p	sly transmitting lation type har orst case of IE .11n(HT20); d data rate @ N @ MCS0 is the the worst case ong the modula recorded in the	g mode ve been EE 802 lata rate //CS0 is e worst e of IEE ttion anc e report.	with 2.11a; @ the case E d



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#### 7.8.3 Test Setup Diagram



**Ground Reference Plane** 

#### 7.8.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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### 7.9 Minimum 6 dB bandwidth (5.725-5.85 GHz band )

F	Frequency band	(MHz)		Limi
Limit:			r	
Test Me	thod:	KDB 789033	3 D02 II C 2	
Test Re	quirement	47 CFR Part	: 15, Subpart E 15.407 (e)	

Frequency band(MHz)	Limit
5725-5850	≥500 kHz

#### 7.9.1 E.U.T. Operation

Operating Environment:							
Temperature:	20.3 °C	Humidity:	53.9 % RH	Atmospheric Pressure: 1013 mbar			

#### 7.9.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	04	TX mode (U-NII-3)_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(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), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.

### 7.9.3 Test Setup Diagram



Ground Reference Plane

### 7.9.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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### 7.10 Peak Power spectrum density

Test Requirement Test Method:	47 CFR Pa KDB 7890	art 15, Subpart E 15.407 (a) 33 D02 II F		
Limit:				
Frequency band(MHz)		Limit		
5450 5050		≤17dBm in 1MHz for master device		
5150-5250		≤11dBm in 1MHz for client device		
5250-5350 5470-5725		≤11dBm in 1MHz for client device		
		≤11dBm in 1MHz for client device		

01100	120	
5725-5	850	≤30dBm in 500 kHz
Remark:	The maximum direct connection	power spectral density is measured as a conducted emission by on of a calibrated test instrument to the equipment under test.

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

**Operating Environment:** 

· -						
Temperature:	20.3 °C	Humidity:	53.9 % RH	Atmospheric Pressure:	1013	mbar



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#### 7.10.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	TX mode (U-NII-1)_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(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 of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Final test	02	TX mode (U-NII-2A)_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(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), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Final test	03	TX mode (U-NII-2C)_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(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), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Final test	04	TX mode (U-NII-3)_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(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 of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. 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	Frequence Test Require Test Methoo	e <b>y Stabilit</b> ement d:	<b>Y</b> 47 CFR Part 15, 5 ANSI C63.10 (20	Subpart E 15.407 ( 13) Section 6.8	(g)			
7.11.1	<b>E.U.T. Op</b> Operating E Temperatur	<b>peration</b> Invironment e: 20.3	: 3 °C Humidi	ty: 53.9 % RH	Atmosphe	eric Pressure:	1013 ı	mbar
7.11.2	Test Mod	e Descripti	ion					
	Pre-scan / Final test	Mode Code	Description					
I	Final test	01	TX mode (U-NII- modulation types and found the da rate @ MCS0 is t is the worst case case of IEEE 802 IEEE 802.11ac(V 802.11ac(VHT80 worse data rates	I)_Keep the EUT in . All data rates for ta rate @ 6Mbps is he worst case of II of IEEE 802.11n(H 2.11ac(VHT20); data 'HT40); data rate @ ), final test modes Only the data of v	n continuousl each modulat s the worst ca EEE 802.11n HT40); data ra ta rate @ MC @ MCS0 is the are consideri worst case is b	y transmitting tion type have use of IEEE 80 (HT20); data ra ate @ MCS0 is S0 is the wors e worst case of ng the modula recorded in the	mode wit been tes 2.11a; da ate @ M0 to the wors t case of f IEEE tion and e report.	h all ited ata CS0 st
Final test 02			TX mode (U-NII-2 all modulation typ tested and found data rate @ MCS MCS0 is the wors worst case of IEE of IEEE 802.11ac 802.11ac(VHT80 worse data rates	2A)_Keep the EUT bes.All data rates for the data rate @ 61 50 is the worst case at case of IEEE 80 E 802.11ac(VHT2 c(VHT40); data rate ), final test modes Only the data of w	JT in continuously transmitting mode with for each modulation type have been 6Mbps is the worst case of IEEE 802.11a; ase of IEEE 802.11n(HT20); data rate @ 802.11n(HT40); data rate @ MCS0 is the T20); data rate @ MCS0 is the worst case ate @ MCS0 is the worst case of IEEE es are considering the modulation and f worst case is recorded in the report.			
I	Final test	03	TX mode (U-NII-2 all modulation typ tested and found data rate @ MCS MCS0 is the wors worst case of IEE of IEEE 802.11ac 802.11ac(VHT80 worse data rates	2C)_Keep the EUT bes.All data rates for the data rate @ 61 to is the worst case at case of IEEE 80 E 802.11ac(VHT2 c(VHT40); data rate ), final test modes Only the data of w	in continuou or each modu Mbps is the w e of IEEE 802 2.11n(HT40); 0); data rate e @ MCS0 is are consideri worst case is p	sly transmitting lation type hav orst case of IE 2.11n(HT20); d data rate @ M @ MCS0 is the the worst case ng the modula recorded in the	g mode w /e been EE 802. ata rate MCS0 is t e worst c e of IEEE tion and e report.	vith 11a; @ he ase :
I	Final test	04	TX mode (U-NII- modulation types and found the da rate @ MCS0 is t is the worst case case of IEEE 802 IEEE 802.11ac(V 802.11ac(VHT80 worse data rates	B)_Keep the EUT in All data rates for e ta rate @ 6Mbps is he worst case of II of IEEE 802.11n(H 2.11ac(VHT20); da (HT40); data rate @ ), final test modes Only the data of w	n continuousl each modulat s the worst ca EEE 802.11n HT40); data ra ta rate @ MC @ MCS0 is the are consideri worst case is	y transmitting ion type have l use of IEEE 80 (HT20); data ra ate @ MCS0 is S0 is the wors e worst case c ng the modula recorded in the	mode wit ceen test 2.11a; da ate @ M0 the wor: t case of f IEEE tion and e report.	h all ted ata CS0 st



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#### 7.11.3 Test Setup Diagram



Ground Reference Plane

#### 7.11.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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#### **Test Setup Photo** 8

Refer to Appendix - Test Setup Photo for GZCR240800092303



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#### **EUT Constructional Details (EUT Photos)** 9

Refer to Appendix - External and Internal Photos for GZCR2408000923AT



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# 10 Appendix

1. Duty Cycle

# 1.1 Test Result

1.1.1 Ant1

Ant1									
Mode	ТХ Туре	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)		
		5180	1.429	1.530	93.40	0.30	0.03		
		5200	1.429	1.530	93.40	0.30	0.03		
		5240	1.429	1.529	93.46	0.29	0.03		
		5260	1.429	1.530	93.40	0.30	0.03		
		5300	1.429	1.530	93.40	0.30	0.03		
902 110	8180	5320	1.428	1.529	93.39	0.30	0.03		
002.11a	3130	5500	1.429	1.530	93.40	0.30	0.03		
		5580	1.429	1.530	93.40	0.30	0.03		
		5700	1.429	1.529	93.46	0.29	0.03		
		5745	1.429	1.530	93.40	0.30	0.03		
		5785	1.429	1.530	93.40	0.30	0.03		
		5825	1.429	1.530	93.40	0.30	0.03		
	SISO	5190	0.201	0.298	67.45	1.71	0.18		
		5230	0.200	0.297	67.34	1.72	0.10		
		5270	0.196	0.297	65.99	1.81	0.17		
		5310	0.201	0.298	67.45	1.71	0.11		
802.11n		5510	0.201	0.297	67.68	1.70	0.15		
(HT40)		5550	0.201	0.298	67.45	1.71	0.09		
		5670	0.196	0.297	65.99	1.81	0.12		
		5755	0.198	0.298	66.44	1.78	0.13		
		5795	0.201	0.298	67.45	1.71	0.10		
		5795	0.201	0.301	66.78	1.75	0.09		
		5210	0.116	0.217	53.46	2.72	0.09		
000 11		5290	0.117	0.218	53.67	2.70	0.14		
802.11ac (VHT80)	SISO	5530	0.119	0.218	54.59	2.63	0.25		
(011100)		5610	0.116	0.217	53.46	2.72	0.04		
		5775	0.119	0.217	54.84	2.61	0.17		



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# 1.2 Test Graph

### 1.2.1 Ant1





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2. Bandwidth

## 2.1 Test Result

### 2.1.1 OBW

Mode	ТХ Туре	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)		Vordict
				Result	Limit	veruici
802.11a	SISO	5180	1	17.620	/	Pass
		5200	1	17.700	/	Pass
		5240	1	17.694	/	Pass
		5260	1	17.672	/	Pass
		5300	1	17.727	/	Pass
		5320	1	17.768	/	Pass
		5500	1	17.726	/	Pass
		5580	1	17.693	/	Pass
		5700	1	17.660	/	Pass
		5745	1	17.741	/	Pass
		5785	1	17.727	/	Pass
		5825	1	17.695	/	Pass
	SISO	5190	1	36.621	/	Pass
		5230	1	36.591	/	Pass
		5270	1	36.656	/	Pass
802.11n (HT40)		5310	1	36.582	/	Pass
		5510	1	36.626	/	Pass
		5550	1	36.591	/	Pass
		5670	1	36.624	/	Pass
		5755	1	36.622	/	Pass
		5795	1	36.604	/	Pass
802.11ac (VHT80)	SISO	5210	1	76.025	/	Pass
		5290	1	76.024	/	Pass
		5530	1	76.011	/	Pass
		5610	1	75.994	/	Pass
		5775	1	75.869	/	Pass



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### 2.1.2 6dB BW

Mode	ТХ Туре	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		) ( a reliet
				Result	Limit	verdict
802.11a	SISO	5745	1	16.338	>=0.5	Pass
		5785	1	16.355	>=0.5	Pass
		5825	1	16.315	>=0.5	Pass
802.11n (HT40)	SISO	5755	1	36.392	>=0.5	Pass
		5795	1	36.288	>=0.5	Pass
802.11ac (VHT80)	SISO	5775	1	75.453	>=0.5	Pass

### 2.1.3 26dB BW

Mode	ТХ Туре	Frequency (MHz)	ANT	26dB Bandwidth (MHz)		Vardiet
				Result	Limit	veraict
802.11a	SISO	5180	1	21.863	/	Pass
		5200	1	22.084	/	Pass
		5240	1	21.909	/	Pass
		5260	1	21.933	/	Pass
		5300	1	22.057	/	Pass
		5320	1	21.953	/	Pass
		5500	1	21.835	/	Pass
		5580	1	21.757	/	Pass
		5700	1	21.745	/	Pass
802.11n (HT40)	SISO	5190	1	40.470	/	Pass
		5230	1	40.718	/	Pass
		5270	1	40.645	/	Pass
		5310	1	40.978	/	Pass
		5510	1	41.004	/	Pass
		5550	1	40.700	/	Pass
		5670	1	40.896	/	Pass
802.11ac (VHT80)	SISO	5210	1	83.620	/	Pass
		5290	1	82.794	/	Pass
		5530	1	83.201	/	Pass
		5610	1	83.158	/	Pass



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## 2.2 Test Graph

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### 2.2.1 OBW



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