

FCC Test Report

Report No.: AGC01600180201FE06

FCC ID : SMC-SA

APPLICATION PURPOSE: Original Equipment

PRODUCT DESIGNATION: JMGO Smart Home Theater

BRAND NAME : N/A

MODEL NAME : Refer to page 5

CLIENT : SHENZHEN HOLATEK CO., LTD

DATE OF ISSUE : Mar. 31, 2018

STANDARD(S) FCC Part 15.407

TEST PROCEDURE(S) KDB 789033 D02 v02r01

REPORT VERSION: V1.0

Attestation of Global Compliance (Shenzhen) Co., Ltd

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Attestation of Global Compliance

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Report No.: AGC01600180201FE06

Page 2 of 99

REPORT REVISE RECORD

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	1	Mar. 31, 2018	Valid	Initial Release

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TABLE OF CONTENTS

1. VERIFICATION OF CONFORMITY	5
2. GENERAL INFORMATION	
2.1. PRODUCT DESCRIPTION	6
2.2. TABLE OF CARRIER FREQUENCYS	6
2.3. RELATED SUBMITTAL(S) / GRANT (S)	7
2.4. TEST METHODOLOGY	7
2.5. SPECIAL ACCESSORIES	7
2.6. EQUIPMENT MODIFICATIONS	
3. MEASUREMENT UNCERTAINTY	
4. DESCRIPTION OF TEST MODES	9
5. SYSTEM TEST CONFIGURATION	10
5.1. CONFIGURATION OF EUT SYSTEM	
5.2. EQUIPMENT USED IN EUT SYSTEM	10
5.3. SUMMARY OF TEST RESULTS	
6. TEST FACILITY	
7. MAXIMUM CONDUCTED OUTPUT POWER	200
7.1. MEASUREMENT PROCEDURE	12
7.2. TEST SET-UP	
7.3. LIMITS AND MEASUREMENT RESULT	
8. 6DB BANDWIDTH	15
8.1. MEASUREMENT PROCEDURE	15
8.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)	15
8.3. LIMITS AND MEASUREMENT RESULTS	16
8.3. LIMITS AND MEASUREMENT RESULTS 9. EMISSION BANDWIDTH	24
9.1. MEASUREMENT PROCEDURE	24
9.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)	24
9.3. LIMITS AND MEASUREMENT RESULTS	25
10. MAXIMUM CONDUCTED OUTPUT PEAK POWER SPECTRAL DENSITY	33

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10.1 MEASUREMENT PROCEDURE	33
10.2 TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)	
10.3 MEASUREMENT EQUIPMENT USED	
10.4 LIMITS AND MEASUREMENT RESULT	
11. CONDUCTED SPURIOUS EMISSION	
11.1. MEASUREMENT PROCEDURE	50
11.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)	50
11.3. MEASUREMENT EQUIPMENT USED	
11.4. LIMITS AND MEASUREMENT RESULT	50
12. RADIATED EMISSION	71
12.1. MEASUREMENT PROCEDURE	71
12.2. TEST SETUP	72
12.3. LIMITS AND MEASUREMENT RESULT	73
12.4. TEST RESULT	
13. BAND EDGE EMISSION	
13.1. MEASUREMENT PROCEDURE	80
13.2. TEST SET-UP	
13.3. TEST RESULT	
14. FREQUENCY STABILITY	
14.1. MEASUREMENT PROCEDURE	
14.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)	
14.3. MEASUREMENT RESULTS	88
15. FCC LINE CONDUCTED EMISSION TEST	94
15.1. LIMITS OF LINE CONDUCTED EMISSION TEST	
15.2. BLOCK DIAGRAM OF LINE CONDUCTED EMISSION TEST	94
15.3. PRELIMINARY PROCEDURE OF LINE CONDUCTED EMISSION TEST	95
15.4. FINAL PROCEDURE OF LINE CONDUCTED EMISSION TEST	95
15.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST	96
APPENDIX A: PHOTOGRAPHS OF TEST SETUP	98

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1. VERIFICATION OF CONFORMITY

Applicant	SHENZHEN HOLATEK CO., LTD		
Address	Rm.1001, Unit4, Bld.B, Kexing Science Park, Keyuan Road, Nashan District, Shenzhen		
Manufacturer	BYD Precision Manufacturing., Ltd		
Address	NO.3001, Baohe Road, Baolong Industrial Town, Longgang Shenzhen. china		
Product Designation	JMGO Smart Home Theater		
Brand Name	N/A		
Test Model	SA		
Series Model	SC, SA Pro, SC Pro, SCC, SAA, S2, S3, S4, S5, S6, S7, S8, S9, S20, S30, S40, S50, S60, S70, S80, S90, S21, S22, S23, S24, S25, S26, S27, S28, S29, S31, S32, S33, S34, S35, S36, S37, S38, S39, T11, T12, T13, T14, T15, T16, T17, T18, T19, T21, T22, T23, T24, T25, T26, T27, T28, T29, T31, T32, T33, T34, T35, T36, T37, T38, T39, S200, S300, S400, S500, S600, S700, S800, S900, S201, S202, S203, S204, S205, S206, S207, S208, S209, S301, S302, S303, S304, S305, S306, S307, S308, S309, T101, T102, T103, T104, T105, T106, T107, T108, T109, T201, T202, T203, T204, T205, T206, T207, T208, T209, T301, T302, T303, T304, T305, T306, T307, ST308, T309		
Model Difference	All are the same except the model name.		
Date of test	Mar. 11, 2018 to Mar. 30, 2018		
Deviation	None		
Condition of Test Sample	Normal		
Test Result	Pass		
Report Template	AGCRT-US-BGN/RF		

We hereby certify that:

The above equipment was tested by Attestation of Global Compliance (Shenzhen) Co., Ltd. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10 (2013) and the energy emitted by the sample EUT tested as described in this report is in compliance with requirement of FCC Part 15 Rules requirement.

Tested by

Max Zhang(Zhang Yi)

Mar. 31, 2018

Reviewed by

Bart Xie(Xie Xiaobin))

Mar. 31, 2018

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Report No.: AGC01600180201FE06 Page 6 of 99

2. GENERAL INFORMATION

2.1. PRODUCT DESCRIPTION

The EUT is designed as "JMGO Smart Home Theater". It is designed by way of utilizing the OFDM technology to achieve the system operation.

A major technical description of EUT is described as following

Operation Frequency	peration Frequency 5150 MHz~5250MHz;5725 MHz~5850MHz				
Output Power	IEEE 802.11a20:13.36dBm; IEEE 802.11n(20):9.36dBm; IEEE802.11 ac(20):9.28dBm; IEEE802.11n(40):7.36dBm IEEE802.11ac(40):7.25dBm EEE802.11ac(80):4.85dBm				
Modulation	BPSK, QPSK, 16QAM, 64QAM, 128QAM, 256QAM,OFDM				
Number of channels	9 for 20MHZ bandwidth system 4 for 40MHZ bandwidth system 2 for 40MHZ bandwidth system				
Hardware Version	VerC				
Software Version	1.0.18				
Antenna Designation	Internal antenna				
Number of transmit chain	1				
Antenna Gain	3dBi				
Power Supply	AC120V/60Hz				

2.2. TABLE OF CARRIER FREQUENCYS

Frequency Band	Channel Number	Frequency	Frequency Band	Channel Number	Frequency
1	36	5180 MHz	5725 GHz~ 5850GHz	149	5745 MHz
O N	38	5190 MHz		151	5755 MHz
100	40	5200 MHz		153	5765 MHz
5150 GHz~ 5250GHz	42	5210 MHz		155	5775MHz
	44	5220 MHz		157	5785 MHz
	46	5230 MHz		159	5795 MHz
	48	5240 MHz		161	5805 MHz
				165	5825MHz

Note: For 20MHZ bandwidth system use Channel 36,40,44,48,149,153,157,161,165; For 40MHZ bandwidth system use Channel 38,46,151,159; For 80MHZ bandwidth system use Channel 42,155

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Report No.: AGC01600180201FE06 Page 7 of 99

2.3. RELATED SUBMITTAL(S) / GRANT (S)

This submittal(s) (test report) is intended for **FCC ID**: **SMC-SA** filing to comply with the FCC Part 15 requirements.

2.4. TEST METHODOLOGY

Both conducted and radiated testing was performed according to the procedures in ANSI C63.10 (2013). Radiated testing was performed at an antenna to EUT distance 3 meters.

Others testing (listed at item 5.3) was performed according to the procedures in FCC Part 15.407 rules KDB 789033 D02

2.5. SPECIAL ACCESSORIES

Refer to section 5.2.

2.6. EQUIPMENT MODIFICATIONS

Not available for this EUT intended for grant.

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Report No.: AGC01600180201FE06 Page 8 of 99

3. MEASUREMENT UNCERTAINTY

The uncertainty is calculated using the methods suggested in the "Guide to the Expression of Uncertainty in measurement" (GUM) published by CISPR and ANSI.

- Uncertainty of Conducted Emission, Uc = ±3.2 dB
- Uncertainty of Radiated Emission below 1GHz, Uc = ±3.9 dB
- Uncertainty of Radiated Emission above 1GHz, Uc = ±4.8 dB

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Report No.: AGC01600180201FE06

Page 9 of 99

4. DESCRIPTION OF TEST MODES

Mode	Available channel	Tested channel	Modulation	Date	
				rate(Mbps)	
802.11a/n20/ac20	36,40,44,48,149,153,157,161,165	36,38,48,149, 157,165	OFDM	6/6.5	
802.11n40/ac40	38,46,151,159	38,46, 151,159	OFDM	13.5	
802.11ac80	42,155	42,155	OFDM	13.5	

Note:

- 1. The EUT has been set to operate continuously on tested channel individually, and the EUT is operating at its maximum duty cycle>or equal 98%
- 2. All modes under which configure applicable have been tested and the worst mode test data recording in the test report, if no other mode data.

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Report No.: AGC01600180201FE06

Page 10 of 99

5. SYSTEM TEST CONFIGURATION

5.1. CONFIGURATION OF EUT SYSTEM

Configure 1:

5.2. EQUIPMENT USED IN EUT SYSTEM

Item	Equipment	Model No.	ID or Specification	Remark
1	JMGO Smart Home Theater	SA	SMC-SA	EUT

5.3. SUMMARY OF TEST RESULTS

FCC RULES	DESCRIPTION OF TEST	RESULT	
§15.407	§15.407 6dB Bandwidth		
§15.407	Emission Bandwidth	Compliant	
§15.407	Maximum conducted output power	Compliant	
§15.407	Conducted Spurious Emission	Compliant	
§15.407	Maximum Conducted Output Power Density	Compliant	
§15.209	Radiated Emission	Compliant	
§15.407	Band Edges	Compliant	
§15.207	Line Conduction Emission	Compliant	

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Report No.: AGC01600180201FE06 Page 11 of 99

6. TEST FACILITY

Test Site	Attestation of Global Compliance (Shenzhen) Co., Ltd			
Location 1-2F., Bldg.2, No.1-4, Chaxi Sanwei Technical Industrial Park, Gushu, Xixi Bao'an District B112-B113, Bldg.12, Baoan Bldg Materials Center, No.1 of Inner Ring Road, Baoan District, Shenzhen 518012				
NVLAP LAB CODE 600153-0				
Designation Number	CN5028			
FCC Test Firm Registration Number	682566			
Description	Attestation of Global Compliance(Shenzhen) Co., Ltd is accredited by National Voluntary Laboratory Accreditation program, NVLAP Code 600153-0			

TEST EQUIPMENT OF CONDUCTED EMISSION TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESPI	101206	Jun.20, 2017	Jun.19, 2018
LISN	R&S	ESH2-Z5	100086	Aug.21, 2017	Aug.20, 2018

TEST EQUIPMENT OF RADIATED EMISSION TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESCI	10096	Jun.20, 2017	Jun.19, 2018
EXA Signal Analyzer	Aglient	N9010A	MY53470504	Dec.08, 2017	Dec.07, 2018
Power sensor	Aglient	U2021XA	MY54110007	Sep.21, 2017	Sep.20, 2018
Horn antenna	SCHWARZBECK	BBHA 9170	#768	Sep.20, 2017	Sep.19, 2018
preamplifier	ChengYi	EMC184045SE	980508	Sep.15, 2017	Sep.14, 2018
Active loop antenna (9K-30MHz)	A.H.	SAS-562B	N/A	Mar.01, 2016	Feb.28, 2018
Double-Ridged Waveguide Horn	ETS LINDGREN	3117	00034609	May.18, 2017	May.17, 2019
Broadband Preamplifier	SCHWARZBECK	BBV 9718	9718-205	Jun.20, 2017	Jun.19, 2018
ANTENNA	SCHWARZBECK	VULB9168	D69250	Sep.28, 2017	Sep.27, 2018

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Report No.: AGC01600180201FE06

Page 12 of 99

7. MAXIMUM CONDUCTED OUTPUT POWER

7.1. MEASUREMENT PROCEDURE

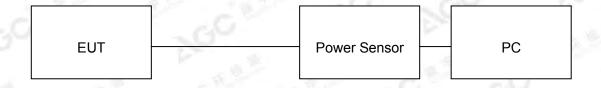
For average power test:

- 1. Connect EUT RF output port to power sensor through an RF attenuator.
- 2. Connect the power sensor to the PC.
- 3. Set the EUT Work on the top, the middle and the bottom operation frequency individually.
- 4. Record the maximum power from the software.

Note: The EUT was tested according to KDB 789033 for compliance to FCC 47CFR 15.407 requirements.

7.2. TEST SET-UP

AVERAGE POWER SETUP



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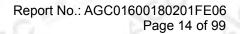
7.3. LIMITS AND MEASUREMENT RESULT

LIMITS AND MEASUREMENT RESULT FOR 802.11A20 MODULATION				
Frequency (MHz)	Average Power (dBm)	Applicable Limits (dBm)	Pass or Fail	
5180	12.85	24	Pass	
5200	13.12	24	Pass	
5240	13.36	24	Pass	
5745	12.15	30	Pass	
5785	12.36	30	Pass	
5825	12.69	30	Pass	

Frequency	Average Power	Applicable Limits	Pass or Fail
(MHz)	(dBm)	(dBm)	45.5
5180	9.16	24	Pass
5200	9.25	24	Pass
5240	9.36	24	Pass
5745	8.79	30	Pass
5785	8.89	30	Pass
5825	9.04	30	Pass

LIMITS AND MEASUREMENT RESULT FOR 802.11AC20 MODULATION					
Frequency (MHz)	Average Power (dBm)	Applicable Limits (dBm)	Pass or Fail		
5180	9.04	24	Pass		
5200	9.12	24	Pass		
5240	9.28	24	Pass		
5745	8.54	30	Pass		
5785	8.72	30	Pass		
5825	8.68	30	Pass		

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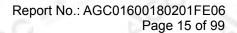


LIMITS AND MEASUREMENT RESULT FOR 802.11N40 MODULATION				
Frequency (MHz)	Average Power (dBm)	Applicable Limits (dBm)	Pass or Fail	
5190	7.25	24	Pass	
5230	7.36	24	Pass	
5755	6.85	30	Pass	
5795	6.74	30	Pass	

LIMITS AND MEASUREMENT RESULT FOR 802.11AC40 MODULATION				
Frequency (MHz)	Average Power (dBm)	Applicable Limits (dBm)	Pass or Fail	
5190	7.14	24	Pass	
5230	7.25	24	Pass	
5755	6.74	30	Pass	
5795	6.52	30	Pass	

LIMITS AND MEASUREMENT RESULT FOR 802.11AC80 MODULATION				
Frequency (MHz)	Average Power (dBm)	Applicable Limits (dBm)	Pass or Fail	
5210	4.85	24	Pass	
5775	4.12	30	Pass	

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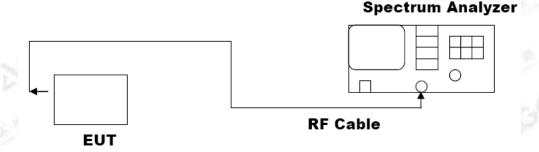
8. 6dB BANDWIDTH

8.1. MEASUREMENT PROCEDURE

- 1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- 2. Set the EUT Work on operation frequency individually.
- 3. Set RBW = 100kHz.
- 4. Set the VBW ≥3*RBW. Detector = Peak. Trace mode = max hold.
- 5. Measure the maximum width of the emission that is 6 dB down from the peak of the emission.

Note: The EUT was tested according to KDB 789033 for compliance to FCC 47CFR 15.407 requirements

8.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)



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8.3. LIMITS AND MEASUREMENT RESULTS

LIMITS AN	ND MEASUREMENT RESU	JLT FOR 802.11A20 MODU	JLATION	
Annii abla Limita	Applicable Limits			
Applicable Limits —	Test Data (MHz)		Criteria	
30	5745MHz	16.42	PASS	
>500KHZ	5785MHz	16.41	PASS	
3.00	5825MHz	16.44	PASS	

unlicable Limite		Applicable Limits	
pplicable Limits	Test Data	a (MHz)	Criteria
100	5745MHz	17.58	PASS
- 1	5785MHz	17.61	PASS
>500KHZ	5825MHz	17.61	PASS
5 10	5755MHz	36.39	PASS
	5795MHz	36.32	PASS

LIMITS AND MEASUREMENT RESULT FOR 802.11AC20/40/80 MODULATION					
A contract to 1 to 16	Applicable Limits				
Applicable Limits	Test Date	a (MHz)	Criteria		
1130	5745MHz	17.58	PASS		
30 ,04	5785MHz	17.64	PASS		
> F00KH7	5825MHz	17.58	PASS		
>500KHZ _	5755MHz	36.38	PASS		
	5795MHz	36.34	PASS		
	5775MHz	75.73	PASS		

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802.11a20 TEST RESULT

TEST PLOT OF BANDWIDTH FOR 5745MHz



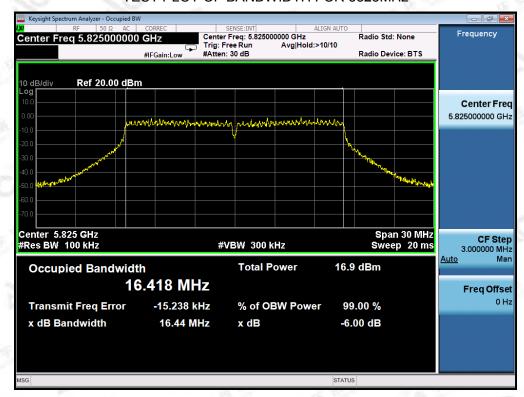
TEST PLOT OF BANDWIDTH FOR 5785MHz



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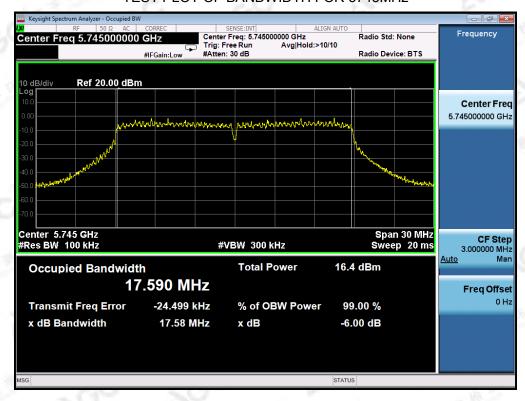


TEST PLOT OF BANDWIDTH FOR 5825MHz



802.11n20 TEST RESULT

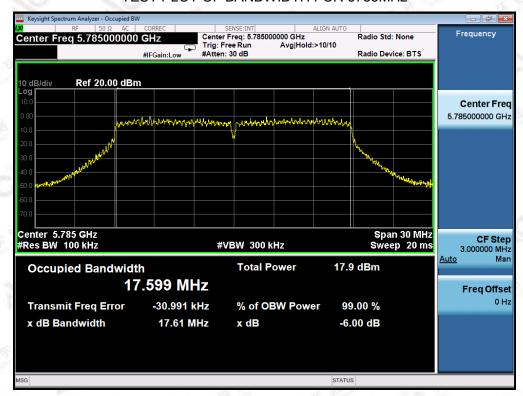
TEST PLOT OF BANDWIDTH FOR 5745MHz



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TEST PLOT OF BANDWIDTH FOR 5785MHz



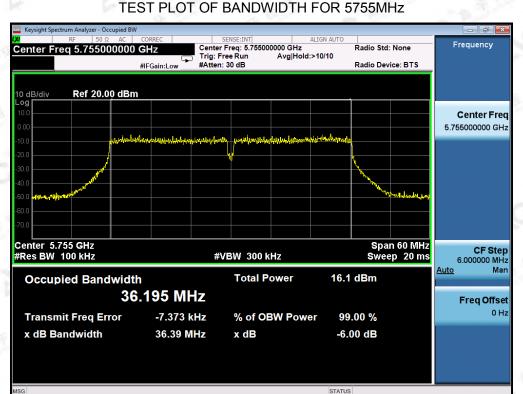
TEST PLOT OF BANDWIDTH FOR 5825MHz



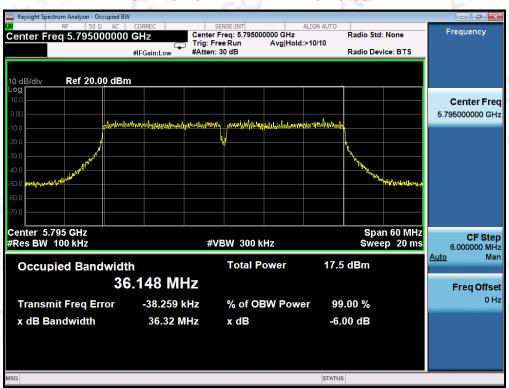
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802.11n40 TEST RESULT



TEST PLOT OF BANDWIDTH FOR 5795MHz

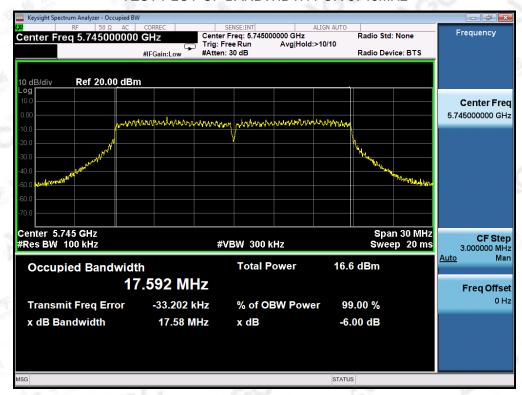


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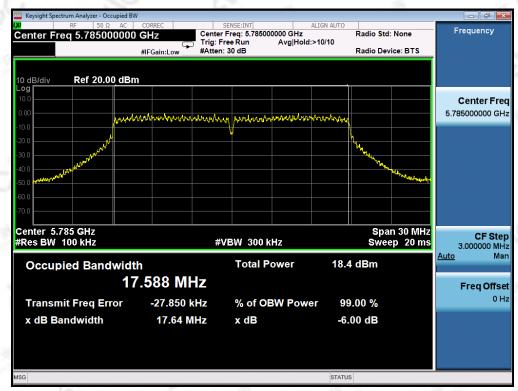


802.11ac20 TEST RESULT

TEST PLOT OF BANDWIDTH FOR 5745MHz



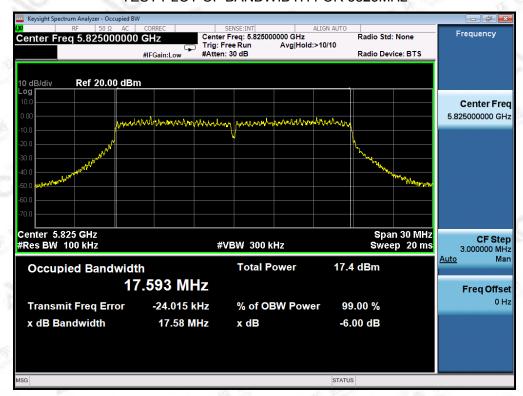
TEST PLOT OF BANDWIDTH FOR 5785MHz



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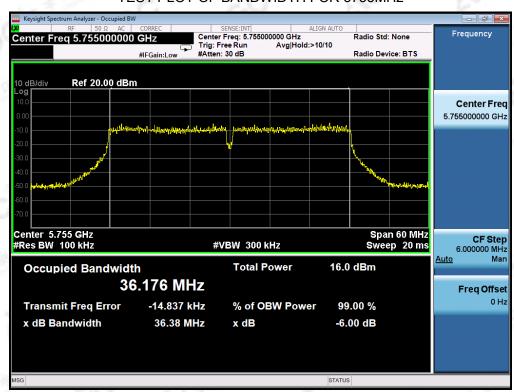


TEST PLOT OF BANDWIDTH FOR 5825MHz



802.11ac40 TEST RESULT

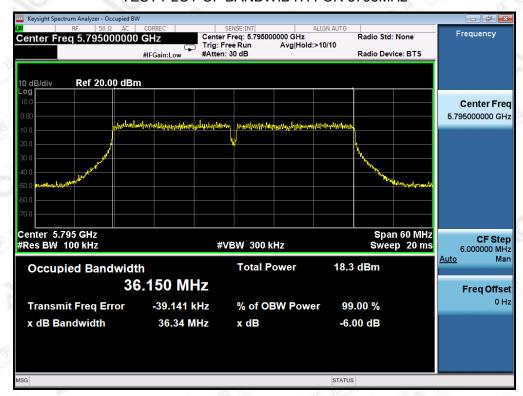
TEST PLOT OF BANDWIDTH FOR 5755MHz



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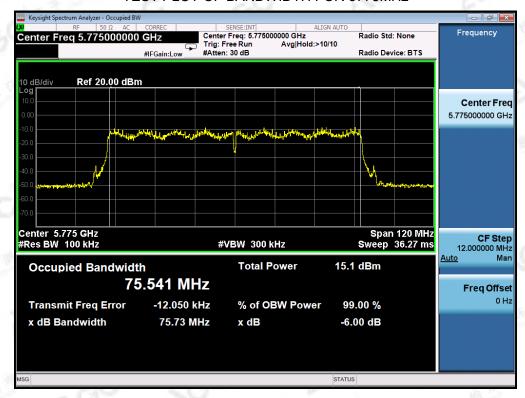


TEST PLOT OF BANDWIDTH FOR 5795MHz



802.11ac80 TEST RESULT

TEST PLOT OF BANDWIDTH FOR 5775MHz



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9. EMISSION BANDWIDTH

9.1. MEASUREMENT PROCEDURE

- a) Set RBW = approximately 1% of the emission bandwidth.
- a) Set RBW = approximately 1% of the emission bandwidth.
- b) Set the VBW > RBW.
- c) Detector = Peak.
- d) Trace mode = max hold.
- e) Measure the maximum width of the emission that is 26 dB down from the maximum of the emission.

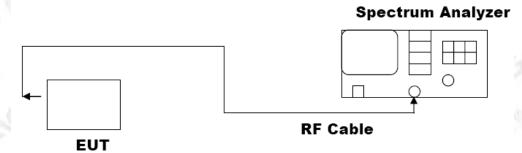
Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.

The following procedure shall be used for measuring (99 %) power bandwidth:

- 1. Set center frequency to the nominal EUT channel center frequency.
- 2. Set span = 1.5 times to 5.0 times the OBW.
- 3. Set RBW = 1 % to 5 % of the OBW
- 4. Set VBW ≥ 3 · RBW
- 5. Peak detection and max hold mode (until the trace stabilizes) shall be used.
- 6. Use the 99 % power bandwidth function of the instrument

Note: The EUT was tested according to KDB 789033 for compliance to FCC 47CFR 15.407 requirements.

9.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)



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Report No.: AGC01600180201FE06

Page 25 of 99

9.3. LIMITS AND MEASUREMENT RESULTS

LIMITS	LIMITS AND MEASUREMENT RESULT FOR 802.11A20 MODULATION					
Test Channel	-26dBc EBW (MHz)	99% OBW (MHz)	Criteria			
5180MHz	19.48	16.480	PASS			
5200MHz	19.46	16.478	PASS			
5240MHz	19.51	16.488	PASS			

LIMITS AND MEASUREMENT RESULT FOR 802.11N20/40 MODULATION				
Test Channel	-26dBc EBW (MHz)	99% OBW (MHz)	Criteria	
5180MHz	20.14	17.641	PASS	
5200MHz	20.16	17.640	PASS	
5240MHz	19.96	17.643	PASS	
5190MHz	40.49	36.213	PASS	
5230MHz	40.35	36.237	PASS	

LIMITS AND MEASUREMENT RESULT FOR 802.11AC20/40/80 MODULATION				
Test Channel	-26dBc EBW (MHz)	99% OBW (MHz)	Criteria	
5180MHz	19.97	17.640	PASS	
5200MHz	20.21	17.635	PASS	
5240MHz	20.09	17.637	PASS	
5190MHz	40.42	36.218	PASS	
5230MHz	40.49	36.236	PASS	
5210MHz	80.58	75.738	PASS	

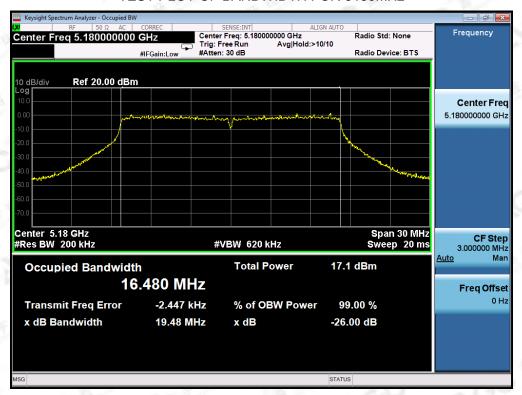
A 26-dB bandwidth that straddles into U-NII 2A band but its 99% occupied power bandwidth does not. If DFS is required, the device must be able to detect radar signal within its 99% occupied power bandwidth. For this rare case, DFS requirement does not apply.

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802.11a20 TEST RESULT

TEST PLOT OF BANDWIDTH FOR 5180MHz



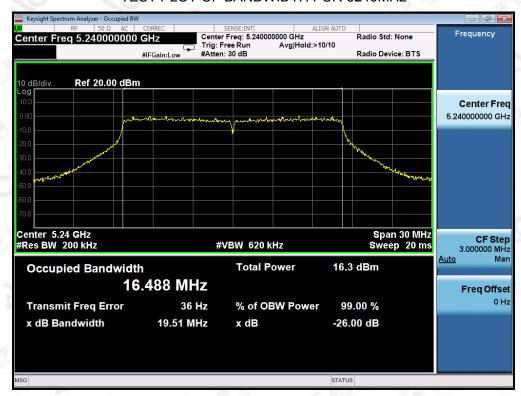
TEST PLOT OF BANDWIDTH FOR 5200MHz



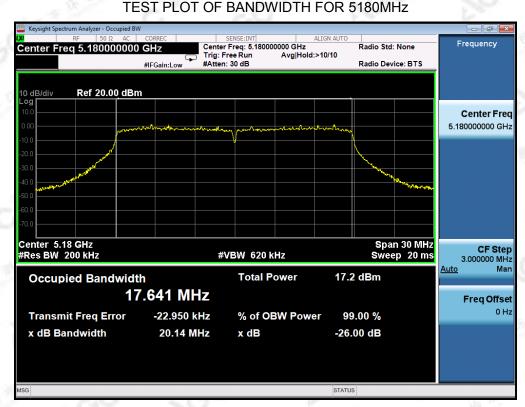
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TEST PLOT OF BANDWIDTH FOR 5240MHz



802.11n20 TEST RESULT



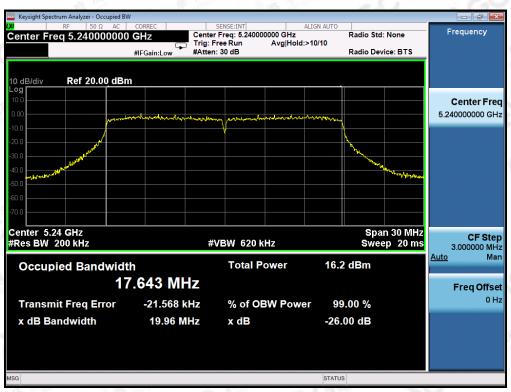
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TEST PLOT OF BANDWIDTH FOR 5200MHz



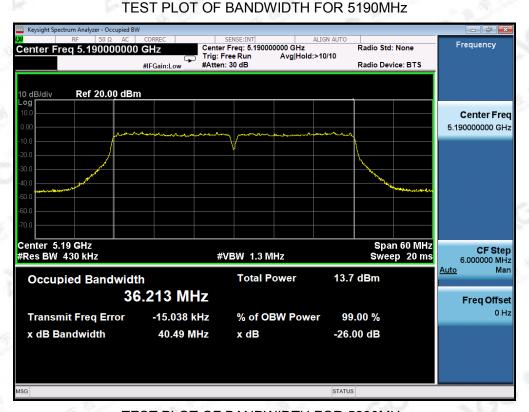
TEST PLOT OF BANDWIDTH FOR 5240MHz



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802.11n40 TEST RESULT



TEST PLOT OF BANDWIDTH FOR 5230MHz



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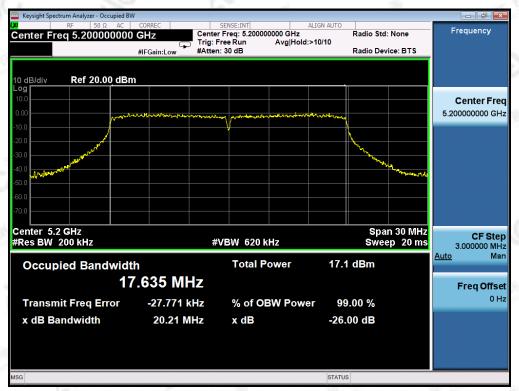


802.11ac20 TEST RESULT

TEST PLOT OF BANDWIDTH FOR 5180MHz



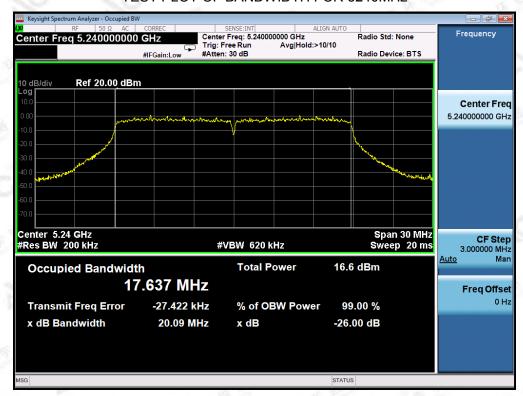
TEST PLOT OF BANDWIDTH FOR 5200MHz



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TEST PLOT OF BANDWIDTH FOR 5240MHz



802.11ac40 TEST RESULT

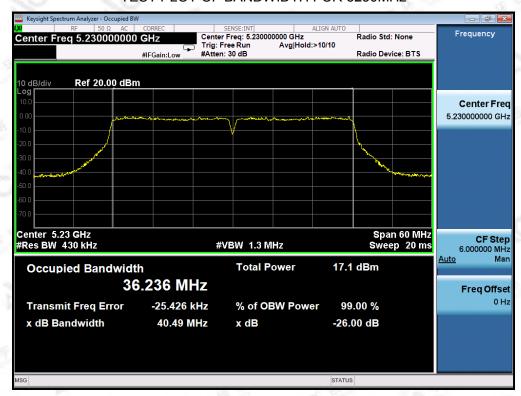
TEST PLOT OF BANDWIDTH FOR 5190MHz



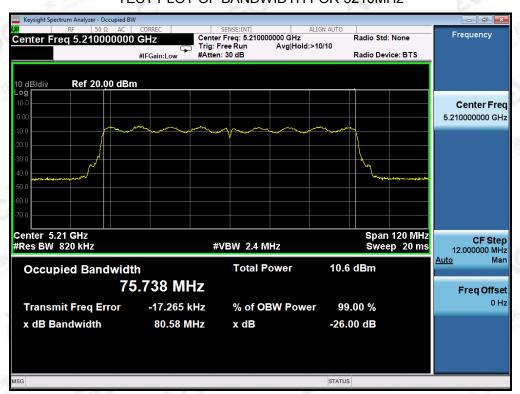
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TEST PLOT OF BANDWIDTH FOR 5230MHz



802.11ac80 TEST RESULT TEST PLOT OF BANDWIDTH FOR 5210MHz



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Report No.: AGC01600180201FE06

Page 33 of 99

10. MAXIMUM CONDUCTED OUTPUT PEAK POWER SPECTRAL DENSITY

10.1 MEASUREMENT PROCEDURE

Refer to KDB 789033 section F

10.2 TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

Refer To Section 8.2.

10.3 MEASUREMENT EQUIPMENT USED

Refer To Section 6.

10.4 LIMITS AND MEASUREMENT RESULT

LIMITS AN	LIMITS AND MEASUREMENT RESULT FOR 802.11A20 MODULATION				
Frequency (MHz)	Power density (dBm/MHz)	Applicable Limits (dBm)	Pass or Fail		
5180	7.263	11	Pass		
5200	7.385	11	Pass		
5240	7.009	11	Pass		
Frequency (MHz)	Power density (dBm/500kHz)	Applicable Limits (dBm)	Pass or Fail		
5745	2.274	30	Pass		
5785	2.866	30	Pass		
5825	2.987	30	Pass		

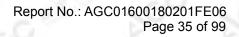
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Frequency (MHz)	Power density (dBm/MHz)	Applicable Limits (dBm)	Pass or Fail
5180	2.535	11	Pass
5200	2.792	11	Pass
5240	2.277	11	Pass
5190	-3.172	11	Pass
5230	-0.748	11	Pass
Frequency (MHz)	Power density (dBm/500kHz)	Applicable Limits (dBm)	Pass or Fail
5745	-2.272	30	Pass
5785	-0.565	30	Pass
5825	-1.209	30	Pass
5755	-5.979	30	Pass
5795	-5.045	30	Pass

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Frequency (MHz)	Power density (dBm/MHz)	Applicable Limits (dBm)	Pass or Fail
5180	2.412	11	Pass
5200	2.324	11	Pass
5240	1.669	11	Pass
5190	-3.211	11	Pass
5230	-0.858	11	Pass
5210	-7.729	11	Pass
Frequency (MHz)	Power density (dBm/500kHz)	Applicable Limits (dBm)	Pass or Fail
5745	-2.622	30	Pass
5785	-0.974	30	Pass
5825	-1.008	30	Pass
5755	-5.769	30	Pass
5795	-4.788	30	Pass
5775	-9.227	30	Pass

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802.11a20 TEST RESULTTEST PLOT OF SPECTRAL DENSITY FOR 5180MHz



TEST PLOT OF SPECTRAL DENSITY FOR 5200MHz



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TEST PLOT OF SPECTRAL DENSITY FOR 5240MHz



TEST PLOT OF SPECTRAL DENSITY FOR 5745MHz



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TEST PLOT OF SPECTRAL DENSITY FOR 5745MHz



TEST PLOT OF SPECTRAL DENSITY FOR 5825MHz



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802.11n20 TEST RESULTTEST PLOT OF SPECTRAL DENSITY FOR 5180MHz



TEST PLOT OF SPECTRAL DENSITY FOR 5200MHz



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TEST PLOT OF SPECTRAL DENSITY FOR 5240MHz



TEST PLOT OF SPECTRAL DENSITY FOR 5745MHz



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TEST PLOT OF SPECTRAL DENSITY FOR 5785MHz



TEST PLOT OF SPECTRAL DENSITY FOR 5825MHz



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802.11n40 TEST RESULTTEST PLOT OF SPECTRAL DENSITY FOR 5190MHz



TEST PLOT OF SPECTRAL DENSITY FOR 5230MHz



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TEST PLOT OF SPECTRAL DENSITY FOR 5755MHz



TEST PLOT OF SPECTRAL DENSITY FOR 5795MHz



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802.11ac20 TEST RESULTTEST PLOT OF SPECTRAL DENSITY FOR 5180MHz



TEST PLOT OF SPECTRAL DENSITY FOR 5200MHz



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TEST PLOT OF SPECTRAL DENSITY FOR 5240MHz



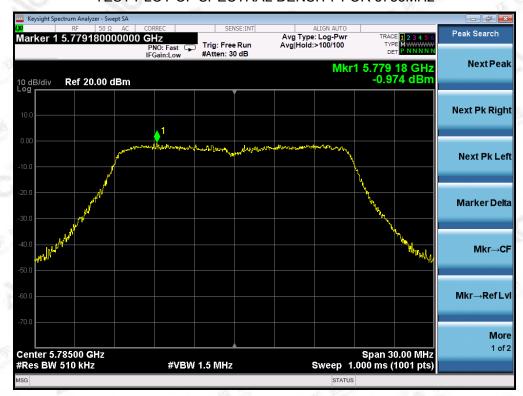
TEST PLOT OF SPECTRAL DENSITY FOR 5745MHz



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TEST PLOT OF SPECTRAL DENSITY FOR 5785MHz



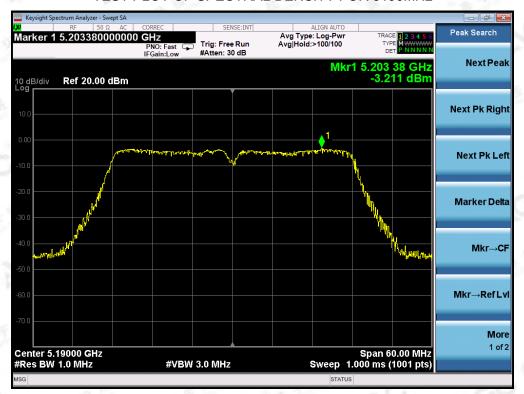
TEST PLOT OF SPECTRAL DENSITY FOR 5825MHz



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802.11ac40 TEST RESULTTEST PLOT OF SPECTRAL DENSITY FOR 5190MHz



TEST PLOT OF SPECTRAL DENSITY FOR 5230MHz



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TEST PLOT OF SPECTRAL DENSITY FOR 5755MHz



TEST PLOT OF SPECTRAL DENSITY FOR 5795MHz



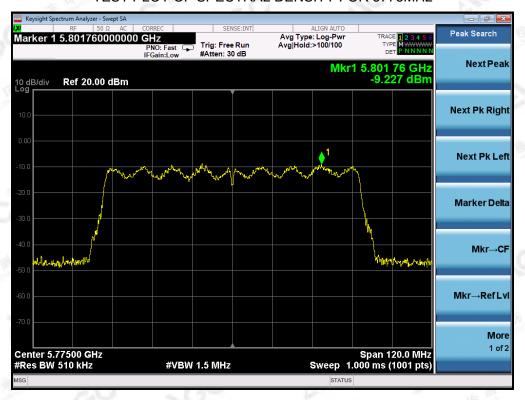
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802.11ac80 TEST RESULTTEST PLOT OF SPECTRAL DENSITY FOR 5210MHz



TEST PLOT OF SPECTRAL DENSITY FOR 5775MHz



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Report No.: AGC01600180201FE06

Page 50 of 99

11. CONDUCTED SPURIOUS EMISSION

11.1. MEASUREMENT PROCEDURE

- 1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- 2, Set the EUT Work on the top, the middle and the bottom operation frequency individually.
- 3. Set SPA Trace 1 Max hold, then View.

Note: The EUT was tested according to KDB 789033 for compliance to FCC 47CFR 15.407 requirements.

11.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

The same as described in section 8.2.

11.3. MEASUREMENT EQUIPMENT USED

The same as described in section 6.

11.4. LIMITS AND MEASUREMENT RESULT

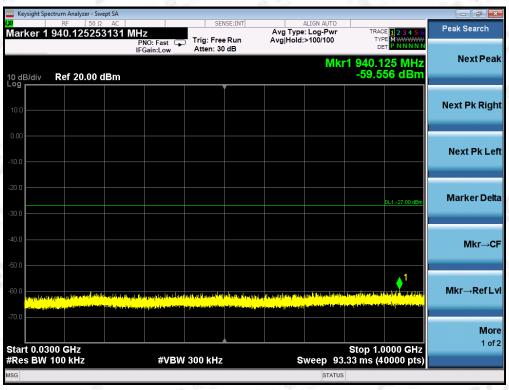
LIMITS AND MEASUREMENT RESULT		
Applicable Limits	Measurement Result	
	Test channel	Criteria
-27dBm/MHz	5150MHz-5250MHz	PASS
All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edgeincreasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.	5725MHz-5850MHz	PASS

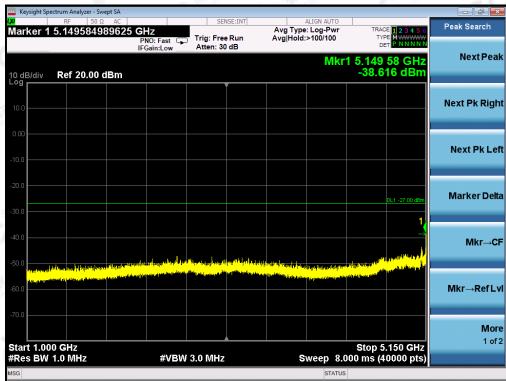
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FOR 802.11A20 MODULATION

TEST PLOT OF OUT OF BAND EMISSIONS FOR MODULATION IN 5180MHz

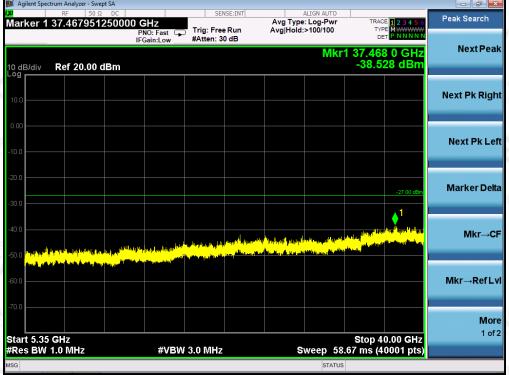




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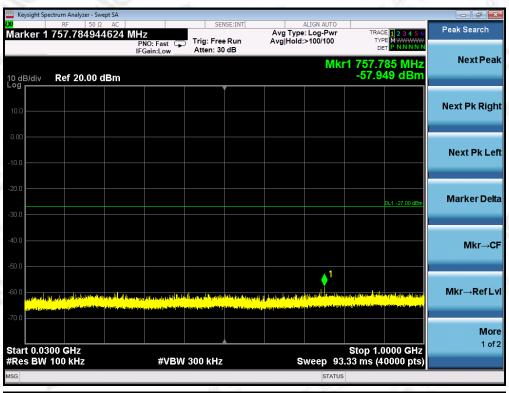


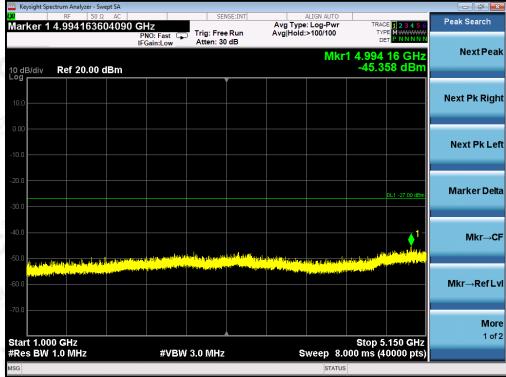


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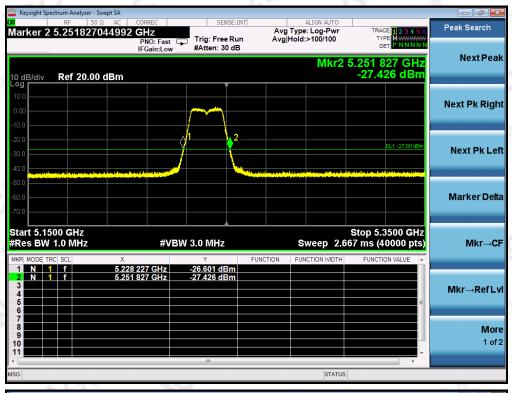
TEST PLOT OF OUT OF BAND EMISSIONS FOR MODULATION IN 5240MHz

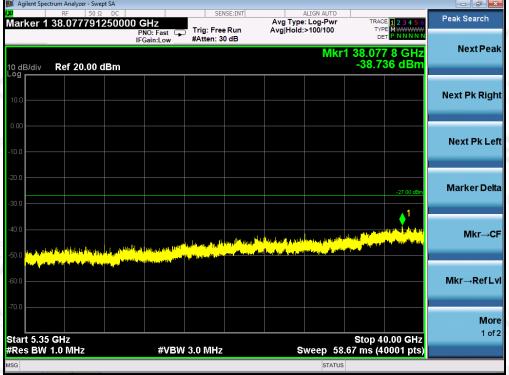




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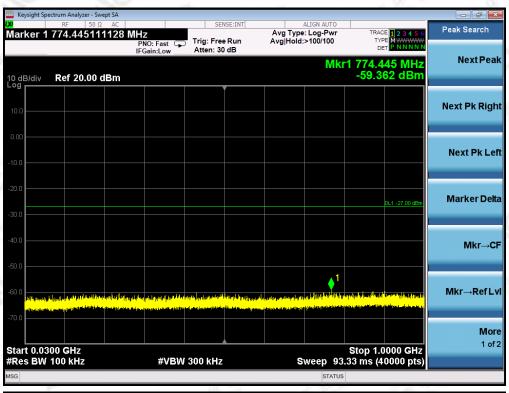


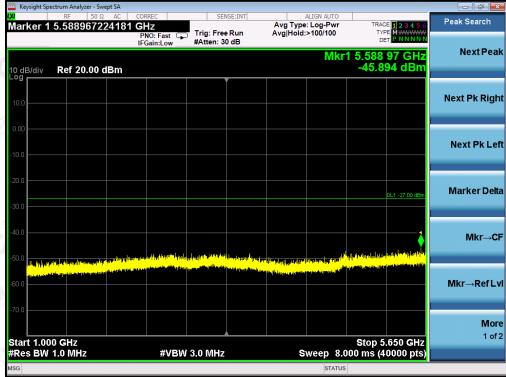


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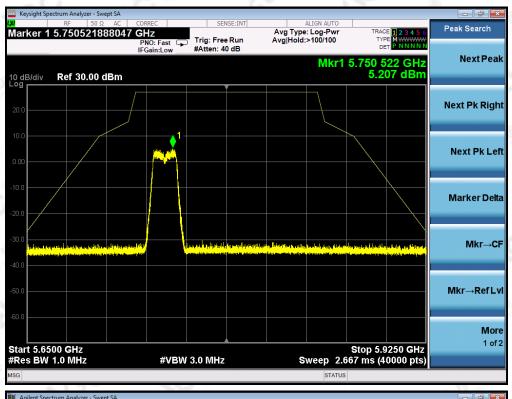
TEST PLOT OF OUT OF BAND EMISSIONS FOR MODULATION IN 5745MHz

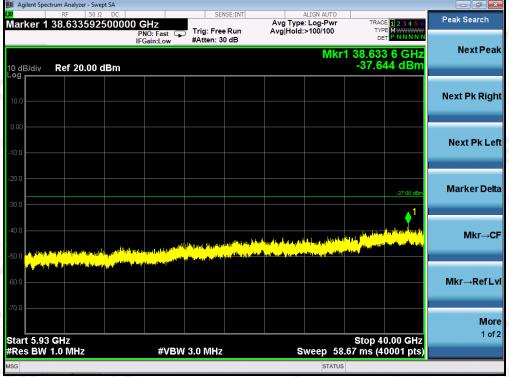




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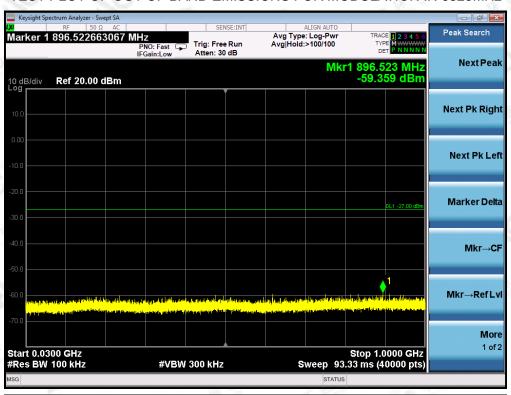


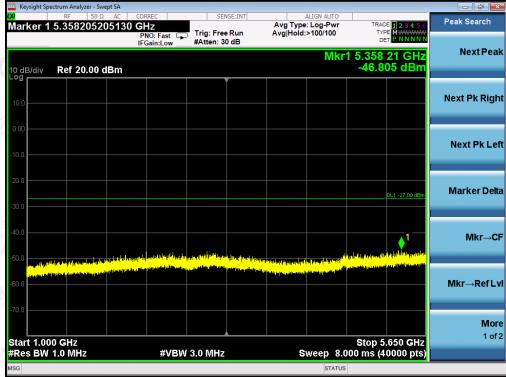


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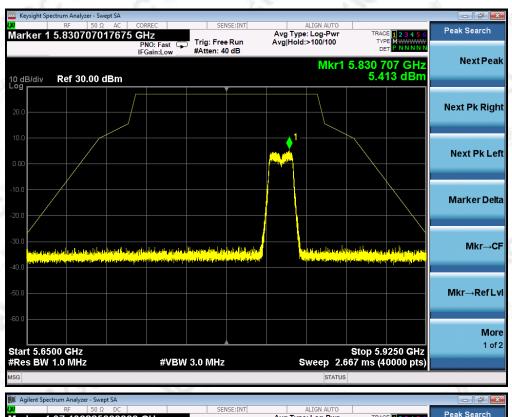
TEST PLOT OF OUT OF BAND EMISSIONS FOR MODULATION IN 5825MHz

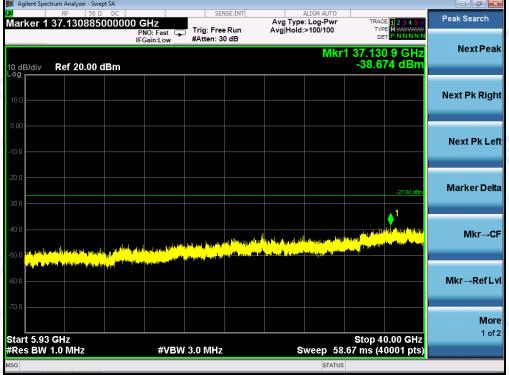




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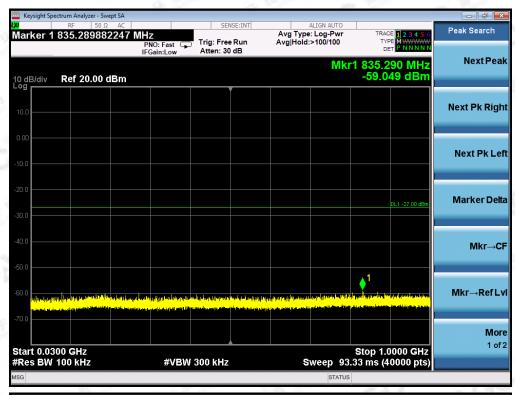


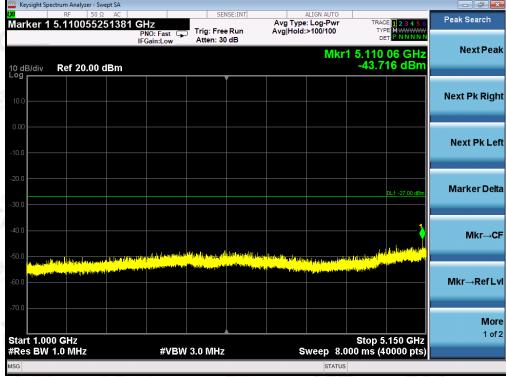
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FOR 802.11N40 MODULATION

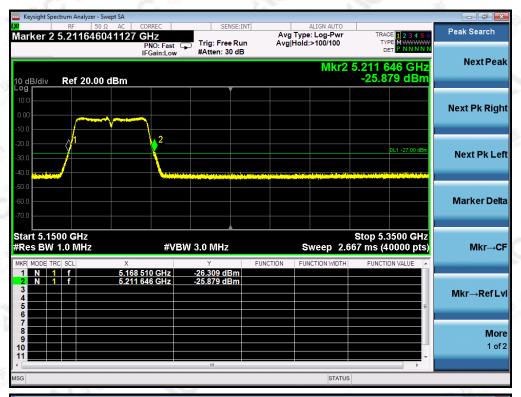
TEST PLOT OF OUT OF BAND EMISSIONS FOR MODULATION IN 5190MHz

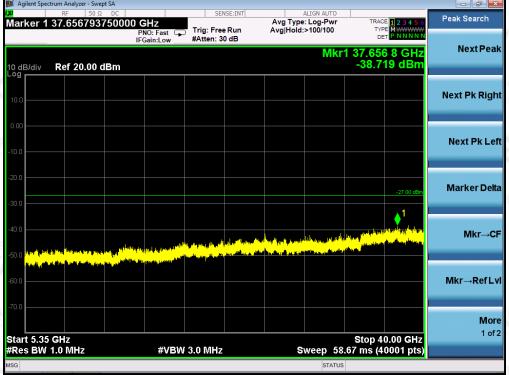




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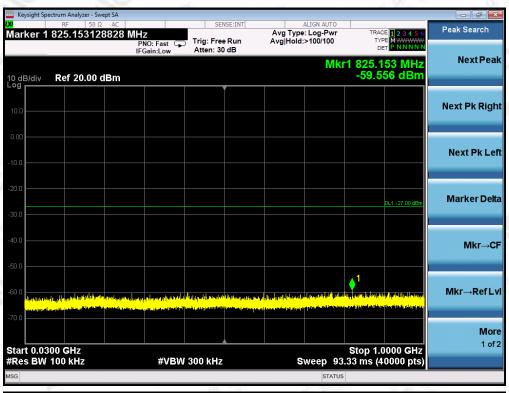


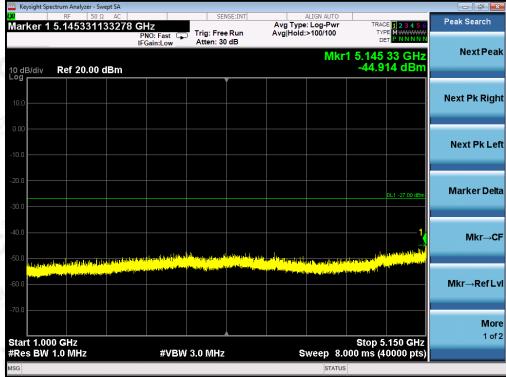


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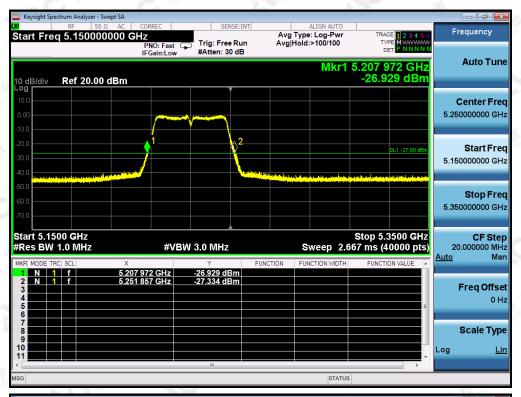
TEST PLOT OF OUT OF BAND EMISSIONS FOR MODULATION IN 5230MHz

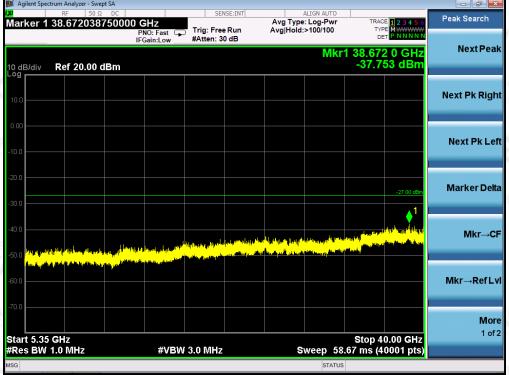




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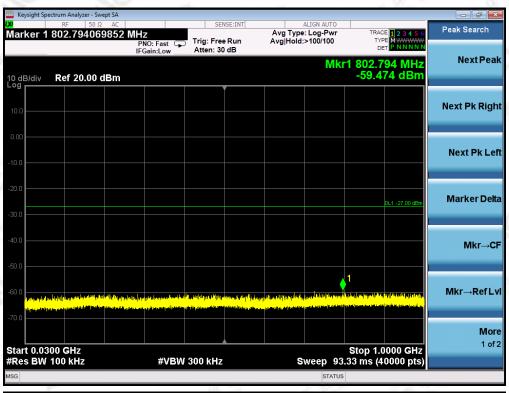


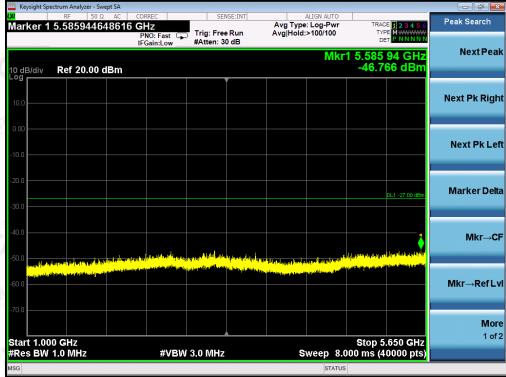


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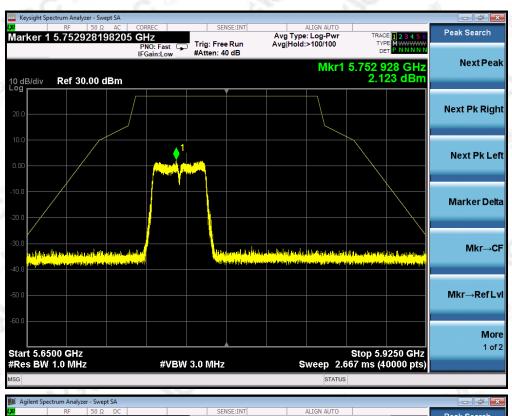
TEST PLOT OF OUT OF BAND EMISSIONS FOR MODULATION IN 5755MHz

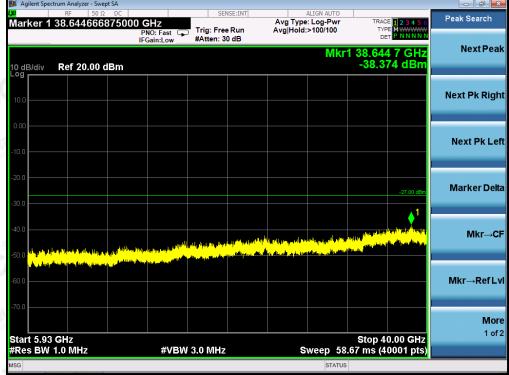




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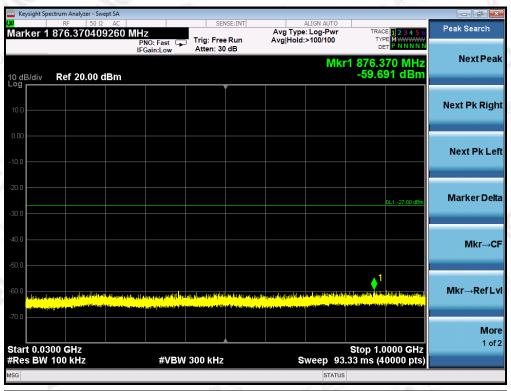


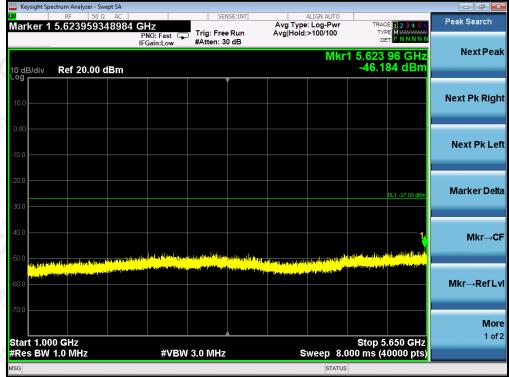


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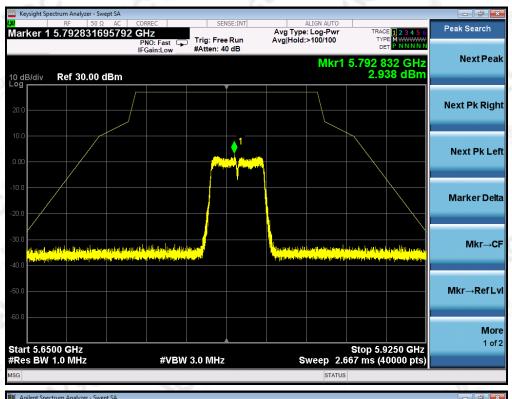
TEST PLOT OF OUT OF BAND EMISSIONS FOR MODULATION IN 5795M

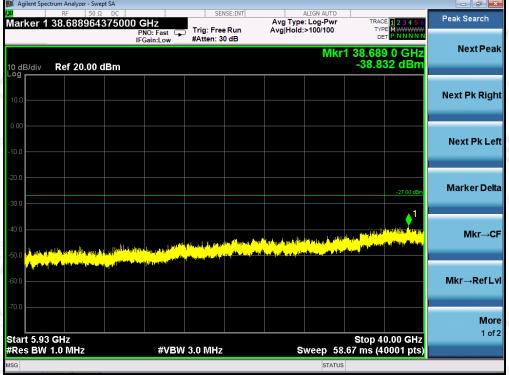




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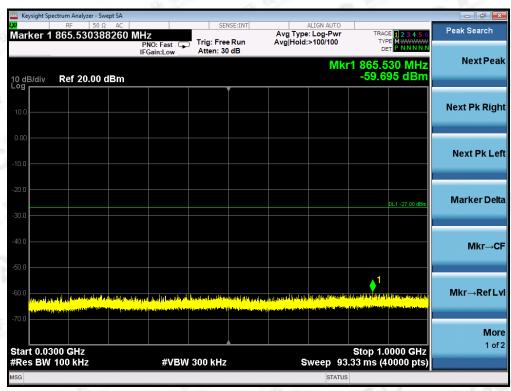


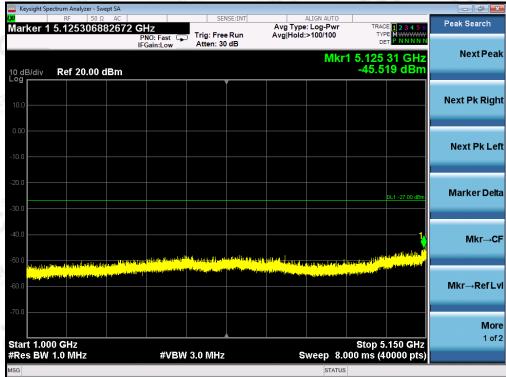
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FOR 802.11AC80 MODULATION

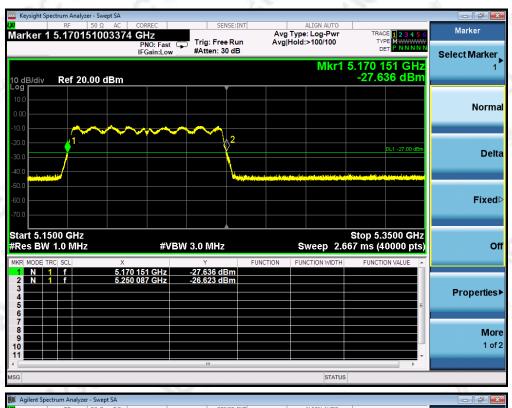
TEST PLOT OF OUT OF BAND EMISSIONS FOR MODULATION IN 5210MHz

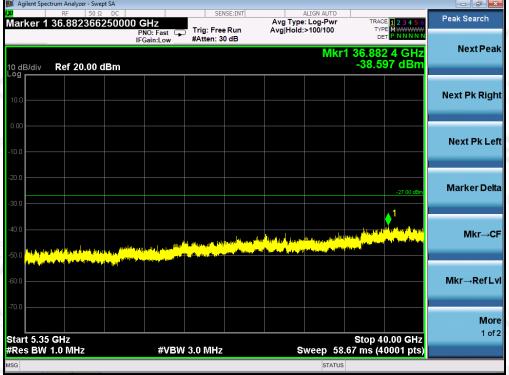




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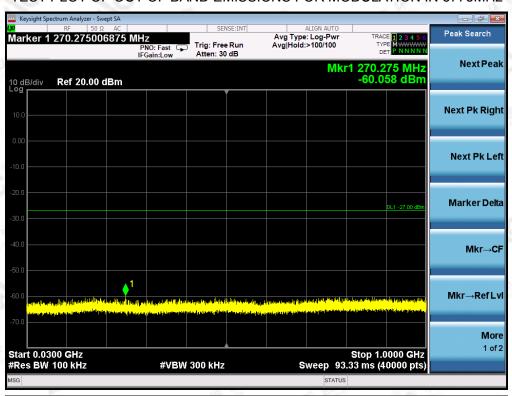


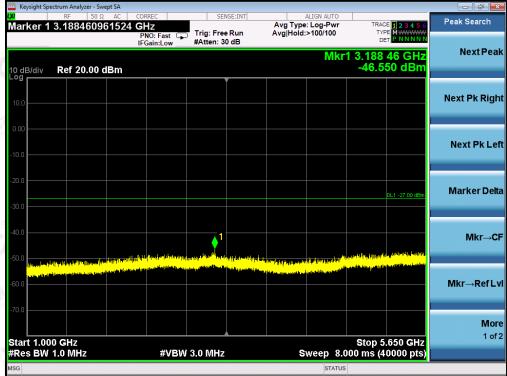


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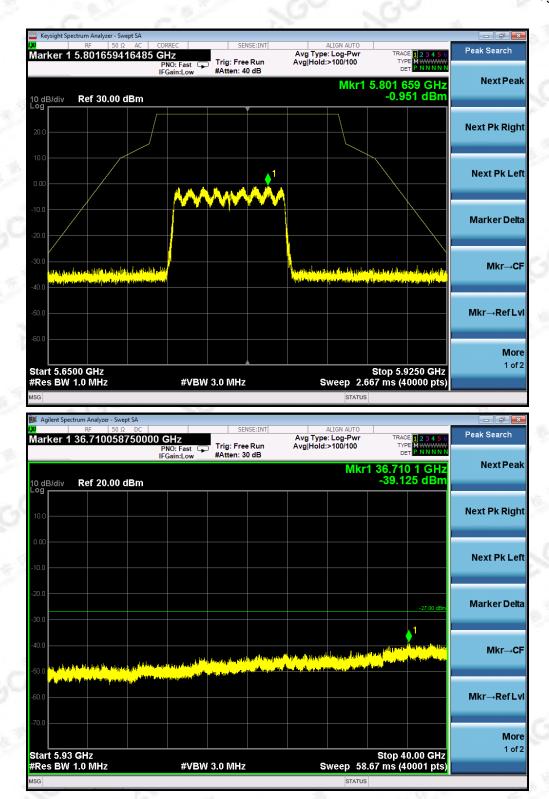
TEST PLOT OF OUT OF BAND EMISSIONS FOR MODULATION IN 5775MHz





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Note: All the 20MHz bandwidth modulation had been tested, the 802.11a20 was the worst case and record in his test report. All the 40MHz bandwidth modulation had been tested, the 802.11N40 was the worst case and record in his test report. All the 80MHz bandwidth modulation had been tested, the 802.11ac80 was the worst case and record in his test report.

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Report No.: AGC01600180201FE06 Page 71 of 99

12. RADIATED EMISSION

12.1. MEASUREMENT PROCEDURE

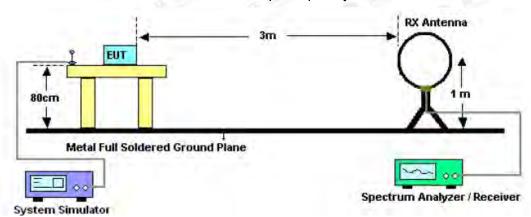
- 1. The EUT was placed on the top of the turntable 0.8 or 1.5 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
- 2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
- 3. The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emissions field strength of both horizontal and vertical polarization.
- 4. For each suspected emissions, the antenna tower was scan (from 1 M to 4 M) and then the turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading.
- 5. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function with specified bandwidth under Maximum Hold Mode.
- 6. For emissions above 1GHz, use 1MHz RBW and 3M VBW for peak reading. Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.
- 7. When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum values.
- 8.If the emissions level of the EUT in peak mode was 3 dB lower than the average limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method for below 1GHz.
- 9. For testing above 1GHz, the emissions level of the EUT in peak mode was lower than average limit (that means the emissions level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
- 10. In case the emission is lower than 30MHz, loop antenna has to be used for measurement and the recorded data should be QP measured by receiver. High Low scan is not required in this case.

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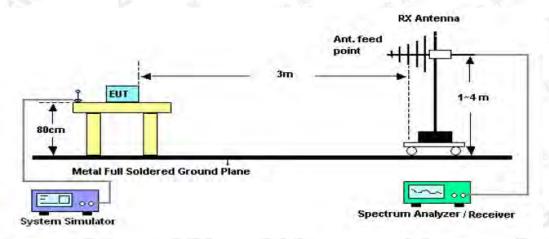


12.2. TEST SETUP

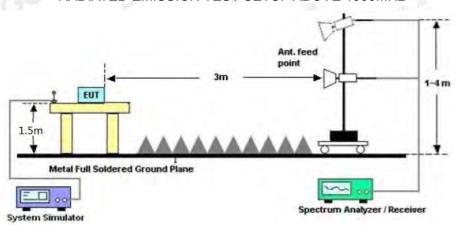
Radiated Emission Test-Setup Frequency Below 30MHz



RADIATED EMISSION TEST SETUP 30MHz-1000MHz



RADIATED EMISSION TEST SETUP ABOVE 1000MHz



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Report No.: AGC01600180201FE06

Page 73 of 99

12.3. LIMITS AND MEASUREMENT RESULT

15.209(a) Limit in the below table has to be followed

Frequencies (MHz)	Field Strength (micorvolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

Note: All modes were tested For restricted band radiated emission,

the test records reported below are the worst result compared to other modes.

12.4. TEST RESULT

RADIATED EMISSION BELOW 30MHZ

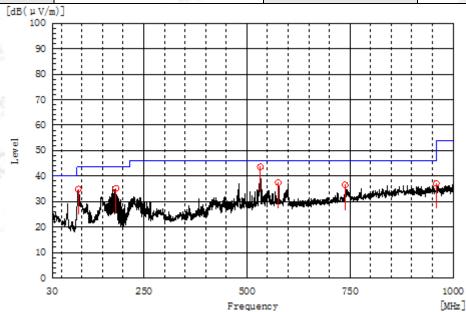
No emission found between lowest internal used/generated frequencies to 30MHz

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RADIATED EMISSION BELOW 1GHZ

			- W
EUT	JMGO Smart Home Theater	Model Name	SA
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5180MHz	Antenna	Horizontal



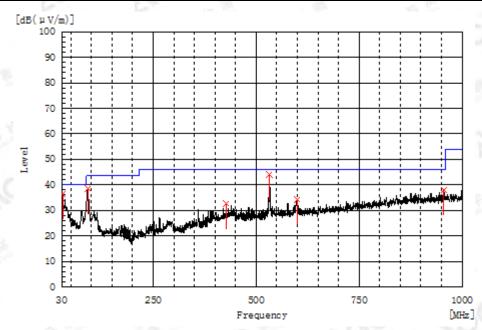
Frequency MHz	Polarization	Reading dB(uV)	Factor dB (1/m)	Level dB(uV/m) PK	Limit dB(uV/m) QP	Margin dB	Pass/Fail	Height cm	Angle deg
91.595	Н	22.5	12.4	34.9	43.5	8.6	Pass	100.0	214.9
182.775	Н	20.8	14.3	35.1	43.5	8.4	Pass	150.0	214.6
532.460	Н	20.1	23.5	43.6	46.0	2.4	Pass	150.0	71.8
576.110	Н	12.9	24.5	37.4	46.0	8.6	Pass	150.0	286.8
738.100	Н	9.3	27.2	36.5	46.0	9.5	Pass	150.0	143.2
959.260	Н	6.4	30.7	37.1	46.0	8.9	Pass	100.0	286.2

RESULT: PASS

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EUT	JMGO Smart Home Theater	Model Name	SA
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5180MHz	Antenna	Vertical



Frequency MHz	Polarization	Reading dB(uV)	Factor dB (1/m)	Level dB(uV/m) PK	Limit dB(uV/m) QP	Margin dB	Pass/Fail	Height cm	Angle deg
30.970	V	20.7	15.6	36.3	40.0	3.7	Pass	100.0	232.7
91.110	V	26.2	12.4	38.6	43.5	4.9	Pass	150.0	180.5
531.975	V	20.4	23.5	43.9	46.0	2.1	Pass	100.0	196.3
599.875	V	9.3	24.9	34.2	46.0	11.8	Pass	100.0	304.9
955.865	V	7.3	30.7	38.0	46.0	8.0	Pass	150.0	287.7
427.215	V	10.9	21.6	32.5	46.0	13.5	Pass	200.0	141.5

RESULT: PASS

Note: All test channels had been tested. The 802.11a20 at 5180MHz is the worst case and recorded in the test report.

Factor = Antenna Factor + Cable loss - Amplifier gain, Margin= Limit-Level.

The "Factor" value can be calculated automatically by software of measurement system.

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Report No.: AGC01600180201FE06

Page 76 of 99

RADIATED EMISSION ABOVE 1GHZ

EUT	JMGO Smart Home Theater	Model Name	SA
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5180MHz	Antenna	Horizontal/Vertical

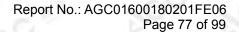
RADIATED EMISSION ABOVE 1GHZ-Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
10360.120	42.45	9.14	51.59	74	-22.41	peak
10360.120	36.85	9.14	45.99	54	-8.01	AVG
15540.180	39.85	10.22	50.07	74	-23.93	peak
15540.180	33.68	10.22	43.9	54	-10.1	AVG

RADIATED EMISSION ABOVE 1GHZ-Vertical

	100	- W		67. 4	40.00	
Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
10360.120	40.52	9.14	49.66	74	-24.34	peak
10360.120	36.14	9.14	45.28	54	-8.72	AVG
15540.180	37.25	10.22	47.47	74	-26.53	peak
15540.180	32.84	10.22	43.06	54	-10.94	AVG
Remark:	5		-C/	100	1	
actor = Ante	enna Factor + Ca	able Loss - I	Pre-amplifier.			12 P

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			- W
EUT	JMGO Smart Home Theater	Model Name	SA
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5240MHz	Antenna	Horizontal/Vertical

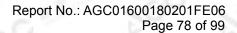
RADIATED EMISSION ABOVE 1GHZ-Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
10480.120	40.38	9.27	49.65	74	-24.35	peak
10480.120	35.54	9.27	44.81	54	-9.19	AVG
15720.180	38.15	10.38	48.53	74	-25.47	peak
15720.180	34.08	10.38	44.46	54	-9.54	AVG

RADIATED EMISSION ABOVE 1GHZ-Vertical

(dBµV) 39.58	(dB)	(dBµV/m)	(dBµV/m)	(dB)	 Value Type
30.58			(~~~~,)	(UD)	18.
39.30	9.27	48.85	74	-25.15	peak
35.26	9.27	44.53	54	-9.47	AVG
38.41	10.38	48.79	74	-25.21	peak
34.19	10.38	44.57	54	-9.43	AVG
		0/	1	100	
	38.41 34.19	38.41 10.38 34.19 10.38	38.41 10.38 48.79	38.41 10.38 48.79 74 34.19 10.38 44.57 54	38.41 10.38 48.79 74 -25.21 34.19 10.38 44.57 54 -9.43

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			- W
EUT	JMGO Smart Home Theater	Model Name	SA
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5745MHz	Antenna	Horizontal/Vertical

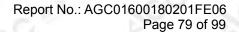
RADIATED EMISSION ABOVE 1GHZ-Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
11490.120	39.78	9.42	49.2	74	-24.8	peak
11490.120	34.25	9.42	43.67	54	-10.33	AVG
17235.180	36.71	10.51	47.22	74	-26.78	peak
17235.180	31.26	10.51	41.77	54	-12.23	AVG

RADIATED EMISSION ABOVE 1GHZ-Vertical

	100	10	48	67. 7	m Ac. 4	
Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
11490.120	38.95	9.42	48.37	74	-25.63	peak
11490.120	33.49	9.42	42.91	54	-11.09	AVG
17235.180	35.18	10.51	45.69	74	-28.31	peak
17235.180	31.85	10.51	42.36	54	-11.64	AVG
Remark:	5 1		-C/	100	1	
actor = Ante	enna Factor + Ca	able Loss - I	Pre-amplifier.			12 P

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EUT	JMGO Smart Home Theater	Model Name	SA
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5825MHz	Antenna	Horizontal/Vertical

RADIATED EMISSION ABOVE 1GHZ-Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
11650.120	40.78	9.62	50.4	74	-23.6	peak
11650.120	34.35	9.62	43.97	54	-10.03	AVG
17475.180	37.74	10.75	48.49	74	-25.51	peak
17475.180	32.25	10.75	43	54	-11	AVG

RADIATED EMISSION ABOVE 1GHZ-Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
11650.120	39.77	9.62	49.39	74	-24.61	peak
11650.120	34.38	9.62	44	54	-10	AVG
17475.180	37.25	10.75	48	74	-26	peak
17475.180	32.64	10.75	43.39	54	-10.61	AVG
Remark:	- 3K	-	-0-		1.00	
actor = Ante	enna Factor + Ca	ble Loss – I	Pre-amplifier.	day.		- 18

Note: All the case had been tested. The 802.11a modulation is the worst case and recorded in the test report. Other frequencies radiation emission from 1GHz to 40GHz at least have 20dB margin and not recorded in the test report.

Factor = Antenna Factor + Cable loss - Amplifier gain, Margin= Limit-Level.

The "Factor" value can be calculated automatically by software of measurement system.

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13. BAND EDGE EMISSION

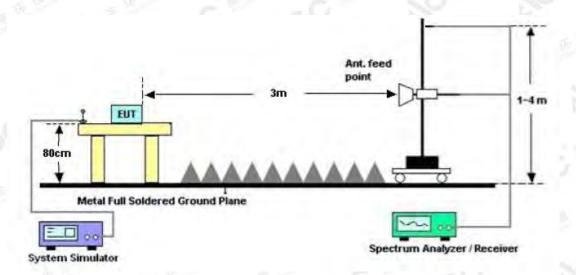
13.1. MEASUREMENT PROCEDURE

- 1. The EUT operates at transmitting mode. The operate channel is tested to verify the largest transmission and spurious emissions power at the continuous transmission mode.
- 2. Set the spectrum analyzer in the following setting in order to capture the lower and upper band-edges of the emission: (a) PEAK: RBW=1MHz, VBW=3MHz / Sweep=AUTO
- (b) AVERAGE: RBW=1MHz; VBW=1/on time(1KHz) / Sweep=AUTO
- 3. Other procedures refer to clause 11.2.

Note:

- 1. Factor=Antenna Factor + Cable loss Amplifier gain. Field Strength=Factor + Reading level
- 2. The factor had been edited in the "Input Correction" of the Spectrum Analyzer. So the Amplitude of test plots is equal to Reading level plus the Factor in dB. Use the A dB(μ V) to represent the Amplitude. Use the F dB(μ V/m) to represent the Field Strength. So A=F.
- 3. Only the data of band edge emission at the restricted band 4.5GHz-5.15GHz record in the report. Other restricted band 5.35GHz-5.46GHz and 7.25GHz-7.77GHz were considered as ambient noise. No recording in the test report.

13.2. TEST SET-UP



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13.3. TEST RESULT

EUT	JMGO Smart Home Theater	Model Name	SA
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5180MHz	Antenna	Horizontal

PK Value



AV Value



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EUT	JMGO Smart Home Theater	Model Name	SA
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5180MHz	Antenna	Vertical



AV Value



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EUT	JMGO Smart Home Theater	Model Name	SA
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11n40 5190MHz	Antenna	Horizontal



AV Value



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EUT	JMGO Smart Home Theater	Model Name	SA
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11n40 5190MHz	Antenna	Vertical



AV Value



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EUT	JMGO Smart Home Theater	Model Name	SA
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11ac80 5210MHz	Antenna	Horizontal



AV Value



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EUT	JMGO Smart Home Theater	Model Name	SA
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11ac80 5210MHz	Antenna	Vertical



AV Value



RESULT: PASS

Note: All the 20MHz bandwidth modulation had been tested, the 802.11a20 was the worst case and record in his test report. All the 40MHz bandwidth modulation had been tested, the 802.11N40 was the worst case and record in his test report.

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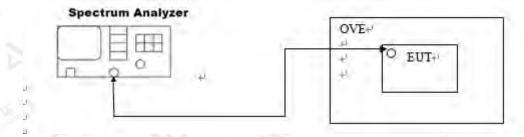


14. FREQUENCY STABILITY

14.1. MEASUREMENT PROCEDURE

- 1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- 2. Set the EUT Work on the operation frequency.
- 3. Set SPA Centre Frequency = Operation Frequency. SPAN=enough to measure the emission is maintained within the band
- 4. Set SPA Trace 1 Max hold, then View.
- 5. Extreme temperature rule is -10°C~60°C.

14.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)



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14.3. MEASUREMENT RESULTS

Test Mode	Temperature	Measurement Frequency (MHz)	Result	Conclusion
. 6.7	- 10℃	5180	within the band	PASS
- W. W.	0℃	5180	within the band	PASS
	10℃	5180	within the band	PASS
	20℃	5180	within the band	PASS
(c) 1/h	30℃	5180	within the band	PASS
	40℃	5180	within the band	PASS
100	- 10℃	5240	within the band	PASS
~C	0℃	5240	within the band	PASS
Q	10℃	5240	within the band	PASS
15 10	20℃	5240	within the band	PASS
- 6	30℃	5240	within the band	PASS
802.11a	40℃	5240	within the band	PASS
002.11a	- 10℃	5745	within the band	PASS
	0℃	5745	within the band	PASS
1	10℃	5745	within the band	PASS
di 18.	20℃	5745	within the band	PASS
	30℃	5745	within the band	PASS
, -	40℃	5745	within the band	PASS
	- 10℃	5825	within the band	PASS
1 Th	0℃	5825	within the band	PASS
-	10℃	5825	within the band	PASS
	20℃	5825	within the band	PASS
10U	30℃	5825	within the band	PASS
	40℃	5825	within the band	PASS

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Test Mode	Temperature	Measurement Frequency (MHz)	Result	Conclusion
. 6.5	- 10℃	5180	within the band	PASS
W 30.	0℃	5180	within the band	PASS
8	10℃	5180	within the band	PASS
/	20℃	5180	within the band	PASS
18	30℃	5180	within the band	PASS
Vir. No.	40℃	5180	within the band	PASS
4 4 3	- 10℃	5240	within the band	PASS
-0	0℃	5240	within the band	PASS
(O-	10℃	5240	within the band	PASS
	20℃	5240	within the band	PASS
4 W	30℃	5240	within the band	PASS
802.11n20	40℃	5240	within the band	PASS
802.111120	- 10℃	5745	within the band	PASS
200	0℃	5745	within the band	PASS
	10℃	5745	within the band	PASS
d. (8.)	20℃	5745	within the band	PASS
7	30℃	5745	within the band	PASS
	40℃	5745	within the band	PASS
	- 10℃	5825	within the band	PASS
-10.	0℃	5825	within the band	PASS
10	10℃	5825	within the band	PASS
_ 6.	20℃	5825	within the band	PASS
60	30℃	5825	within the band	PASS
214	40℃	5825	within the band	PASS



Test Mode	Temperature	Measurement Frequency (MHz)	Result	Conclusion
- 45	- 10℃	5180	within the band	PASS
- N	0℃	5180	within the band	PASS
	10℃	5180	within the band	PASS
/	20℃	5180	within the band	PASS
18	30℃	5180	within the band	PASS
Vi No	40℃	5180	within the band	PASS
4 4 3	- 10℃	5240	within the band	PASS
- C	0℃	5240	within the band	PASS
(O-	10℃	5240	within the band	PASS
6.7	20℃	5240	within the band	PASS
W	30℃	5240	within the band	PASS
000 44 - 000	40℃	5240	within the band	PASS
802.11ac20	- 10℃	5745	within the band	PASS
1	0℃	5745	within the band	PASS
	10℃	5745	within the band	PASS
d. (8)	20℃	5745	within the band	PASS
1	30℃	5745	within the band	PASS
0.00	40℃	5745	within the band	PASS
***	- 10℃	5825	within the band	PASS
	0℃	5825	within the band	PASS
	10℃	5825	within the band	PASS
_ 6	20℃	5825	within the band	PASS
60	30℃	5825	within the band	PASS
200	40 ℃	5825	within the band	PASS



Test Mode	Temperature	Measurement Frequency (MHz)	Result	Conclusion
. 6.5	- 10℃	5190	within the band	PASS
W 30.	0℃	5190	within the band	PASS
8	10℃	5190	within the band	PASS
/	20℃	5190	within the band	PASS
1 Th	30℃	5190	within the band	PASS
Vir. No.	40℃	5190	within the band	PASS
4 4 3	- 10℃	5230	within the band	PASS
-0	0℃	5230	within the band	PASS
0	10℃	5230	within the band	PASS
40.7	20℃	5230	within the band	PASS
4 W	30℃	5230	within the band	PASS
802.11n40	40℃	5230	within the band	PASS
802.111140	- 10℃	5755	within the band	PASS
200	0℃	5755	within the band	PASS
	10℃	5755	within the band	PASS
J. (2.)	20℃	5755	within the band	PASS
7	30℃	5755	within the band	PASS
	40℃	5755	within the band	PASS
_	- 10℃	5795	within the band	PASS
10.	0℃	5795	within the band	PASS
10	10℃	5795	within the band	PASS
_ 6.	20℃	5795	within the band	PASS
60	30℃	5795	within the band	PASS
200	40℃	5795	within the band	PASS



Test Mode	Temperature	Measurement Frequency (MHz)	Result	Conclusion
. 6.5	- 10℃	5190	within the band	PASS
- N	0℃	5190	within the band	PASS
B	10℃	5190	within the band	PASS
1	20℃	5190	within the band	PASS
	30℃	5190	within the band	PASS
The No.	40℃	5190	within the band	PASS
4 4 3	- 10℃	5230	within the band	PASS
-0	0℃	5230	within the band	PASS
VO-	10℃	5230	within the band	PASS
6.1	20℃	5230	within the band	PASS
V	30℃	5230	within the band	PASS
302.11ac40 —	40℃	5230	within the band	PASS
602.11ac40	- 10℃	5755	within the band	PASS
500	0℃	5755	within the band	PASS
	10℃	5755	within the band	PASS
J. (8.)	20 ℃	5755	within the band	PASS
9	30℃	5755	within the band	PASS
0.0	40℃	5755	within the band	PASS
_	- 10℃	5795	within the band	PASS
-10.	0℃	5795	within the band	PASS
6 6	10℃	5795	within the band	PASS
16	20℃	5795	within the band	PASS
60	30℃	5795	within the band	PASS
20	40 ℃	5795	within the band	PASS





Test Mode	Temperature	Measurement Frequency (MHz)	Result	Conclusion	
- 65	- 10℃	5210	within the band	PASS	
W 30	0℃	5210	within the band	PASS	
. B	10℃	5210	within the band	PASS	
	20℃	5210	within the band	PASS	
18.	30℃	5210	within the band	PASS	
000 44 00	40℃	5210	within the band	PASS	
802.11ac80	- 10℃	5775	within the band	PASS	
-0	0℃	5775	within the band	PASS	
10 may	10℃	5775	within the band	PASS	
	20℃	5775	within the band	PASS	
	30℃	5775	within the band	PASS	
2.5	40℃	5775	within the band	PASS	



15. FCC LINE CONDUCTED EMISSION TEST

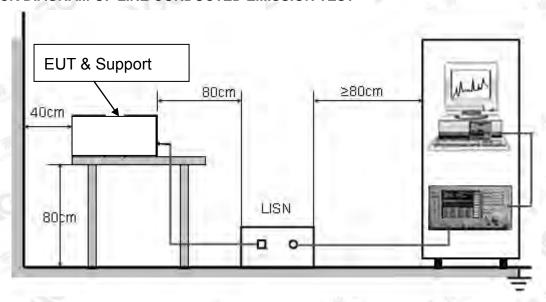
15.1. LIMITS OF LINE CONDUCTED EMISSION TEST

F	Maximum R	F Line Voltage
Frequency	Q.P.(dBuV)	Average(dBuV)
150kHz~500kHz	66-56	56-46
500kHz~5MHz	56	46
5MHz~30MHz	60	50

Note:

- 1. The lower limit shall apply at the transition frequency.
- 2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50MHz.

15.2. BLOCK DIAGRAM OF LINE CONDUCTED EMISSION TEST



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15.3. PRELIMINARY PROCEDURE OF LINE CONDUCTED EMISSION TEST

- 1. The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. When the EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10 (see Test Facility for the dimensions of the ground plane used). When the EUT is a floor-standing equipment, it is placed on the ground plane which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.
- 2. Support equipment, if needed, was placed as per ANSI C63.10.
- 3. All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10.
- 4. All support equipments received AC120V/60Hz power from a LISN, if any.
- 5. The EUT received charging voltage by adapter which received 120V/60Hzpower by a LISN.
- 6. The test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
- 7. Analyzer / Receiver scanned from 150 kHz to 30MHz for emissions in each of the test modes.
- 8. During the above scans, the emissions were maximized by cable manipulation.
- 9. The test mode(s) were scanned during the preliminary test.

Then, the EUT configuration and cable configuration of the above highest emission level were recorded for reference of final testing.

15.4. FINAL PROCEDURE OF LINE CONDUCTED EMISSION TEST

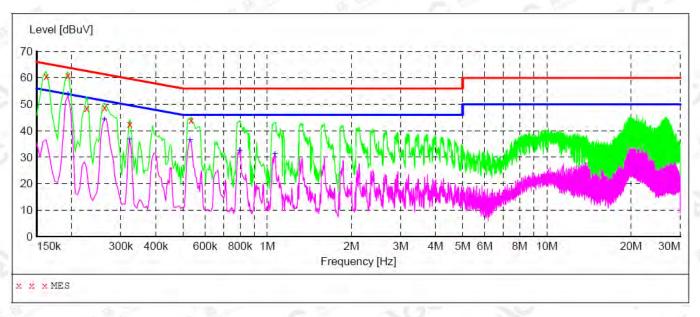
- EUT and support equipment was set up on the test bench as per step 2 of the preliminary test.
- 2. A scan was taken on both power lines, Line 1 and Line 2, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit. If EUT emission level was less –2dB to the A.V. limit in Peak mode, then the emission signal was re-checked using Q.P and Average detector.
- 3. The test data of the worst case condition(s) was reported on the Summary Data page.

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15.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST

LINE CONDUCTED EMISSION TEST-L



MEASUREMENT RESULT:

Frequency	Level	Transd	Limit	Margin	Detector
MHz	dBuV	dB	dBuV	dB	
0.162000 0.194000 0.226000 0.262000 0.322000 0.534000	60.70 60.90 48.50 48.80 42.60 44.10	11.4 11.4 11.3 11.3 11.3	65 64 63 61 60 56	4.7 3.0 14.1 12.6 17.1 11.9	QP QP QP QP QP OP

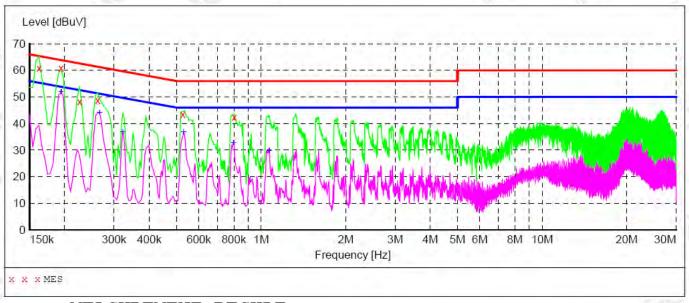
MEASUREMENT RESULT:

Frequency	Level	Transd	Limit	Margin	Detector
MHz	dBuV	dB	dBuV	dB	
0.194000 0.262000 0.322000 0.530000 0.798000 1.066000	53.00 44.20 36.70 36.40 32.50 31.20	11.4 11.3 11.3 11.4 11.4	54 51 50 46 46	1.0 7.2 13.0 9.6 13.5 14.8	AV AV

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LINE CONDUCTED EMISSION TEST-N



MEASUREMENT RESULT:

Frequency	Level	Transd	Limit	Margin	Detector
MHz	dBuV	dB	dBuV	dB	
0.162000 0.194000 0.226000 0.262000 0.526000 0.802000	60.80 60.90 48.30 48.90 43.60 42.60	11.4 11.3 11.3 11.4 11.4	65 64 63 61 56	4.6 3.0 14.3 12.5 12.4 13.4	QP QP QP QP QP QP

MEASUREMENT RESULT:

Frequency	Level	Transd	Limit	Margin	Detector
MHz	dBuV	dB	dBuV	dB	
0.194000 0.266000 0.322000 0.530000 0.798000 1.070000	52.70 44.00 36.70 36.60 32.80 29.60	11.4 11.3 11.3 11.4 11.4	54 51 50 46 46 46	1.2 7.2 13.0 9.4 13.2 16.4	AV AV AV AV AV

RESULT: PASS

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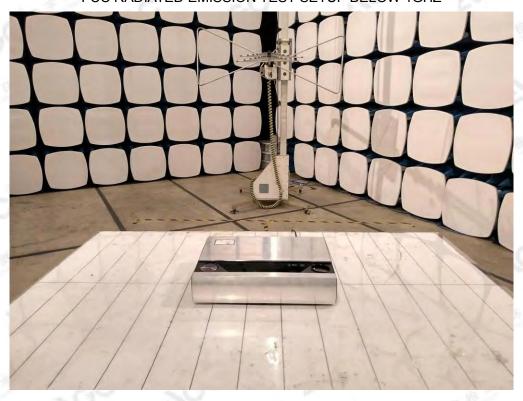


APPENDIX A: PHOTOGRAPHS OF TEST SETUP

FCC LINE CONDUCTED EMISSION TEST SETUP



FCC RADIATED EMISSION TEST SETUP BELOW 1GHZ



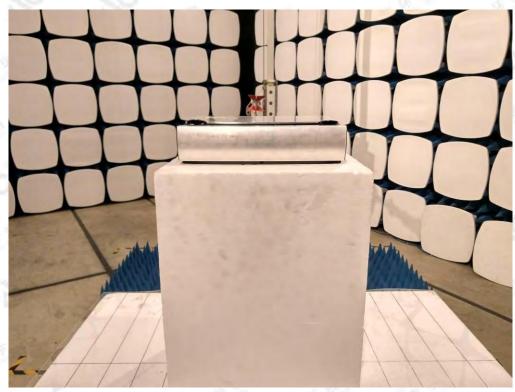
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FCC RADIATED EMISSION TEST SETUP ABOVE 1GHZ



----END OF REPORT----

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