

TEST REPORT

Reference No. : WTF23D08185189W004
FCC ID..... : 2BCDM-FRANK
Applicant..... : Guangzhou Bochong Technology Co., Ltd
Address : Unit 2270, No. 283-2, Tongsha Road, Tonghe Street, Baiyun District,
Guangzhou City, China
Manufacturer : Guangzhou Bochong Technology Co., Ltd
Address : Unit 2270, No. 283-2, Tongsha Road, Tonghe Street, Baiyun District,
Guangzhou City, China
Product Name : Smart Cat Litter Box
Model No. : FR, FRW, FRV
Standards..... : FCC 47CFR Part 15 Section 15.407
Date of Receipt sample..... : 2023-08-25
Date of Test..... : 2023-08-25 to 2023-09-12
Date of Issue : 2023-09-20
Test Result : Pass

Remarks:

The results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company.

The report would be invalid without specific stamp of test institute and the signatures of compiler and approver.

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2 Contents

	Page
1 COVER PAGE.....	1
2 CONTENTS.....	2
3 REVISION HISTORY.....	4
4 GENERAL INFORMATION.....	5
4.1 GENERAL DESCRIPTION OF E.U.T.	5
4.2 DETAILS OF E.U.T.	5
4.3 CHANNEL LIST.....	5
4.4 TEST MODE DESCRIPTION	7
4.5 TEST FACILITY	7
5 EQUIPMENT USED DURING TEST.....	8
5.1 EQUIPMENTS LIST	8
5.2 MEASUREMENT UNCERTAINTY	8
6 TEST SUMMARY.....	10
7 DUTY CYCLE.....	11
7.1 SUMMARY OF TEST RESULTS.....	11
8 CONDUCTED EMISSION.....	15
8.1 E.U.T. OPERATION.....	15
8.2 EUT SETUP	15
8.3 MEASUREMENT DESCRIPTION	15
8.4 CONDUCTED EMISSION TEST RESULT	16
9 RADIATED EMISSIONS.....	18
9.1 EUT OPERATION.....	18
9.2 TEST SETUP	19
9.3 SPECTRUM ANALYZER SETUP	20
9.4 TEST PROCEDURE.....	21
9.5 CORRECTED AMPLITUDE & MARGIN CALCULATION.....	21
9.6 SUMMARY OF TEST RESULTS.....	22
10 BAND EDGE.....	30
10.1 TEST PRODUCE	30
10.2 TEST RESULT	31
11 6 DB BANDWIDTH.....	37
11.1 TEST PROCEDURE	37
11.2 TEST RESULT	37
12 26 DB BANDWIDTH AND 99% OCCUPIED BANDWIDTH.....	42
12.1 TEST PROCEDURE	42
12.2 TEST RESULT	42
13 CONDUCTED OUTPUT POWER.....	51
13.1 TEST PROCEDURE	51
13.2 TEST RESULT	52
14 POWER SPECTRAL DENSITY.....	61
14.1 TEST PROCEDURE	61
14.2 TEST RESULT	62

15 FREQUENCY STABILITY71
15.1 TEST PROCEDURE71
15.2 TEST RESULT72

16 ANTENNA REQUIREMENT73

17 RF EXPOSURE73

18 PHOTOGRAPHS OF TEST SETUP AND EUT.73

3 Revision History

Test Report No.	Date of Receipt Sample	Date of Test	Date of Issue	Purpose	Comment	Approved
WTF23D08185189W004	2023-08-25	2023-08-25 to 2023-09-12	2023-09-20	original	-	Valid

4 General Information

4.1 General Description of E.U.T.

Product:	Smart Cat Litter Box
Model(s):	FR, FRW, FRV
Model Description:	Only the model names are different for different market requirement. The test sample model was FRW.
Wi-Fi Specification:	802.11a/ n(HT20/40)
Hardware Version:	Main Board: BC002_Main_V1.2 Extend Board: BC002_Key_V1.1 Weigh Board: BC002_Weight_V1.0 Hall Board: BC002_Hall_V1.0 Pir Board: BC002_Pir_V1.0
Software Version:	V1.1.3

4.2 Details of E.U.T.

Operation Frequency:	802.11a/n (HT20): U-NII-1: 5150-5250MHz, U-NII-3:5725-5850MHz 802.11n (HT40): U-NII-1: 5190-5230MHz, U-NII-3: 5755-5795MHz
Max. RF output power:	U-NII-1: 13.93dBm U-NII-3: 16.61dBm
Type of Modulation:	OFDM
Antenna installation:	PCB Antenna
Antenna Gain:	U-NII-1: 1.97dBi U-NII-3: -0.76dBi

Note:

#: The antenna gain is provided by the applicant, and the applicant should be responsible for its authenticity, WALTERK lab has not verified the authenticity of its information.

Ratings:	Input: DC 12V by adapter
Adapter:	Model: AS024-1202000U Input: 100-240V~ 50/60Hz 0.8A Output: 12V  2A

4.3 Channel List

U-NII-1 (5.15-5.25GHz)			
channel	Frequency(MHz)	channel	Frequency(MHz)
36	5180	38	5190
40	5200	42	5210
44	5220	46	5230
48	5240		

U-NII-3 (5.725-5.85GHz)			
channel	Frequency(MHz)	channel	Frequency(MHz)
149	5745	151	5755
153	5765	155	5775
157	5785	159	5795
161	5805	165	5825

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

For 802.11a/n (HT20):

channel	Frequency(MHz)	channel	Frequency(MHz)
36	5180	40	5200
48	5240		

channel	Frequency(MHz)	channel	Frequency(MHz)
149	5745	157	5785
165	5825		

For 802.11n (HT40):

channel	Frequency(MHz)	channel	Frequency(MHz)
38	5190	46	5230

channel	Frequency(MHz)	channel	Frequency(MHz)
151	5755	159	5795

4.4 Test Mode Description

During testing, Channel and Power Controlling Software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product.

Transmitting duty cycle is no less 98%.

The software is TermAssist and SecureCRT tool Use together.

Test Items	Mode	Data Rate	TX/RX
Radiated Emissions	802.11a (HT20)	6 Mbps	TX
	802.11n(HT20/40)	MCS0	TX
Duty Cycle	802.11a (HT20)	6 Mbps	TX
	802.11n(HT20/40)	MCS0	TX
Band Edge	802.11a (HT20)	6 Mbps	TX
	802.11n(HT20/40)	MCS0	TX
6dB Bandwidth	802.11a (HT20)	6 Mbps	TX
	802.11n(HT20/40)	MCS0	TX
26dB Bandwidth and 99% Occupied Bandwidth	802.11a (HT20)	6 Mbps	TX
	802.11n(HT20/40)	MCS0	TX
Conducted Output Power	802.11a (HT20)	6 Mbps	TX
	802.11n(HT20/40)	MCS0	TX
Power Spectral Density	802.11a (HT20)	6 Mbps	TX
	802.11n(HT20/40)	MCS0	TX
Frequency Stability	Un-modulation	/	TX

4.5 Test Facility

The test facility has a test site registered with the following organizations:

ISED CAB identifier: CN0013. Test Firm Registration No.: 7760A.

Waltek Testing Group Co., Ltd. Has been registered and fully described in a report filed with the Industry Canada. The acceptance letter from the Industry Canada is maintained in our files.

Registration number 7760A, October 15, 2016.

FCC Designation No.: CN1201. Test Firm Registration No.: 523476.

Waltek Testing Group Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration number 523476, September 10, 2019.

5 Equipment Used during Test

5.1 Equipments List

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal. Date	Calibration Due Date
Conducted emissions from the AC mains power ports 2#						
1	EMI Test Receiver	R&S	ESCI	101155	2023-07-27	2024-07-26
2	LISN	SCHWARZBECK	NSLK 8128	8128-259	2022-11-30	2023-11-29
3	Limiter	CYBERTEK	EM5010	261115-001-0024	2023-07-27	2024-07-26
4	Cable	Laplace	RF300	-	2023-07-27	2024-07-26
3m Semi-anechoic Chamber for Radiation Emissions 1#						
1	Spectrum Analyzer	R&S	FSP30	100091	2023-04-24	2024-04-23
2	Amplifier	Agilent	8447D	2944A10178	2023-07-27	2024-07-26
3	Tri-log Broadband Antenna	SCHWARZBECK	VULB9163	336	2023-08-07	2024-08-06
4	Coaxial Cable	Top	TYPE16(13M)	-	2023-04-24	2024-04-23
5	Broad-band Horn Antenna	SCHWARZBECK	BBHA 9120D	667	2023-02-02	2024-02-01
6	Broad-band Horn Antenna	SCHWARZBECK	BBHA 9170	335	2023-07-27	2024-07-26
7	Broadband Preamplifier	COMPLIANCE	PAP-1G18	2004	2023-08-07	2024-08-06
8	Coaxial Cable	Top	ZT26-NJ-NJ-8M/FA	-	2023-02-02	2024-02-01
9	Microwave Amplifier	SCHWARZBECK	BBV 9721	100472	2023-07-27	2024-07-26
10	Coaxial Cable	Top	ZT40-2.92J-2.92J-2.0M	17100919	2023-04-24	2024-04-23
3m Semi-anechoic Chamber for Radiation Emissions 2#						
1	Test Receiver	R&S	ESCI	101296	2023-04-24	2024-04-23
2	Trilog Broadband Antenna	SCHWARZBECK	VULB9160	9160-3325	2022-10-31	2023-10-30
3	Active Loop Antenna	Com-Power	AL-130R	10160007	2023-05-07	2024-05-06
4	Amplifier	ANRITSU	MH648A	M43381	2023-04-24	2024-04-23
5	Cable	HUBER+SUHNER	CBL2	525178	2023-04-24	2024-04-23
RF Conducting						
1	Spectrum Analyzer	R&S	FSP40	100501	2023-07-27	2024-07-26
2	Spectrum Analyzer	Agilent	N9020A	MY49100060	2023-07-27	2024-07-26

Test Software:

Test Item	Software name	Software version
Conducted Emission Radiated Emission(3m)	EZ-EMC	EZ-EMC(RA-03A1-1)

5.2 Measurement Uncertainty

Parameter	Uncertainty
Radio Frequency	$\pm 1 \times 10^{-6}$
RF Power	± 1.0 dB

RF Power Density	± 2.2 dB
Radiated Spurious Emissions test	± 5.03 dB (30M~1000MHz)
	± 5.47 dB (1000M~25000MHz)
Conducted Spurious Emissions test	± 3.64 dB (AC mains 150KHz~30MHz)

6 Test Summary

Test Items	Test Requirement	Result
Conducted Emissions	15.207(a)	PASS
Radiated Emissions	15.407(a) 15.205(a) 15.209(a)	PASS
Duty Cycle	KDB 789033	PASS
6dB Bandwidth	15.407(a)	PASS
26 dB Emission Bandwidth & 99% Occupied Bandwidth	15.407(a)	PASS
Maximum Conducted Output Power	15.407(a)	PASS
Power Spectral Density	15.407(a)	PASS
Restricted bands around fundamental frequency	15.407(a)	PASS
Antenna Requirement	15.203	PASS
Maximum Permissible Exposure (Exposure of Humans to RF Fields)	1.1307(b)(1)	PASS

7 Duty cycle

Test Requirement: FCC 47CFR Part 15 Section 15.407
KDB789033 D02 General U-NII Test Procedures New Rules v02r01, Section (B)

Test Method: ANSI C63.10: 2013

Test Limit: N/A

Test Result: PASS

Remark: Through Pre-scan, and found 802.11a at lowest channel is the worst case. Only the worst case is recorded in the report.

7.1 Summary of Test Results

Type of Modulation	On time ms	Period ms	Duty Cycle linear	Duty Cycle %	Duty Cycle Factor(dB)	Average Factor(dB)
U-NII-1 802.11a	2.07	2.2	0.94	94.09	0.26	-0.53
U-NII-1 802.11n(HT20)	1.92	2.05	0.94	93.66	0.28	-0.57
U-NII-1 802.11n(HT40)	0.95	1.08	0.88	87.96	0.56	-1.11
U-NII-3 802.11a	2.07	2.2	0.94	94.09	0.26	-0.53
U-NII-3 802.11n(HT20)	1.92	2.05	0.94	93.66	0.28	-0.57
U-NII-3 802.11n(HT40)	0.93	1.07	0.87	86.92	0.61	-1.22

Remark:

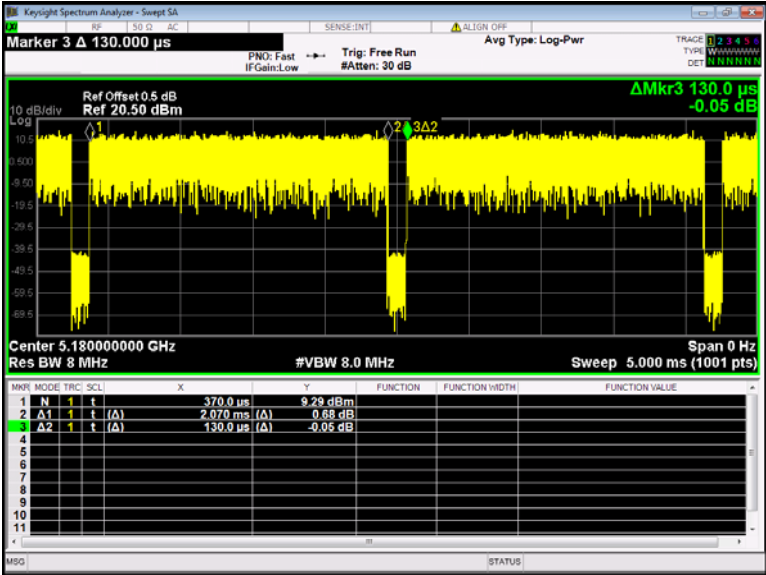
Duty cycle=On Time/period;

Duty cycle factor= $10 \cdot \log(1/\text{Duty cycle})$;

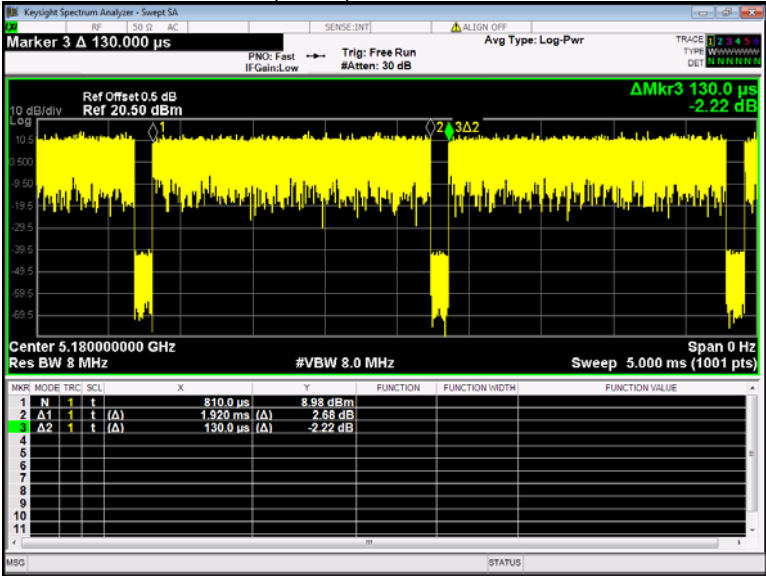
Average factor= $20 \log_{10} \text{Duty cycle}$

Test result plots shown as follows:

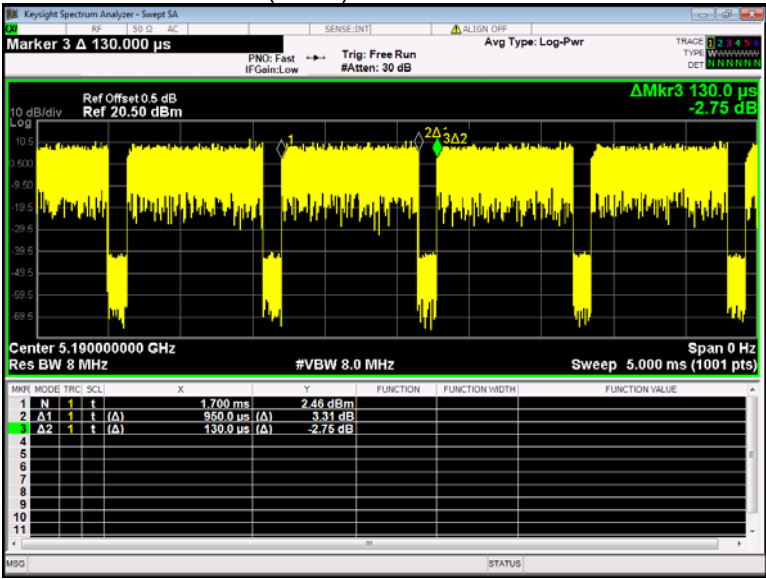
802.11a U-NII-1 Low channel



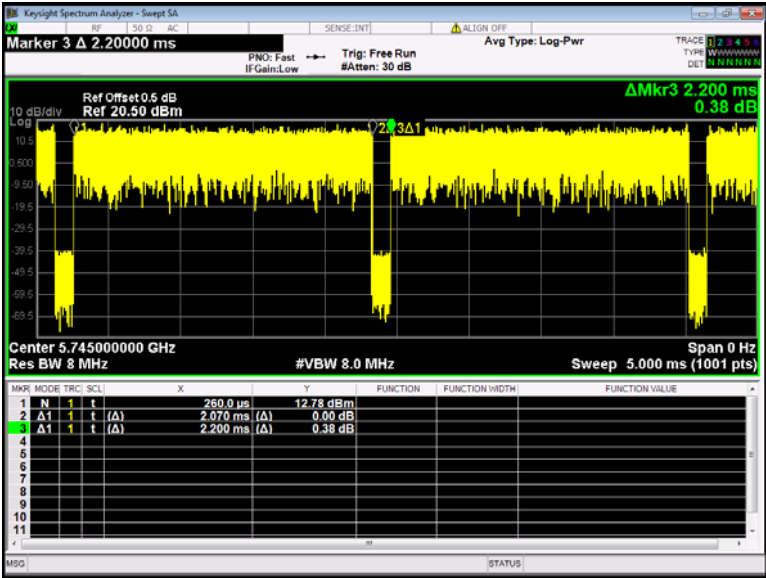
802.11n(HT20) U-NII-1 Low channel



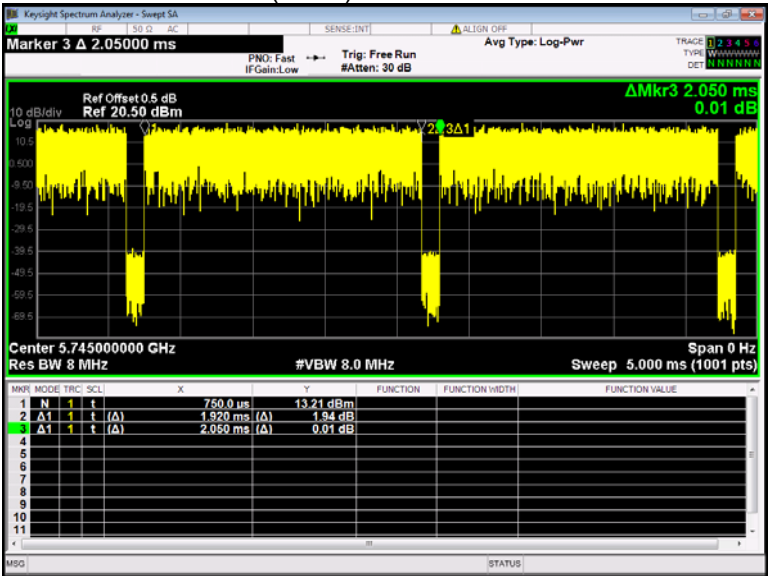
802.11n(HT40) U-NII-1 Low channel



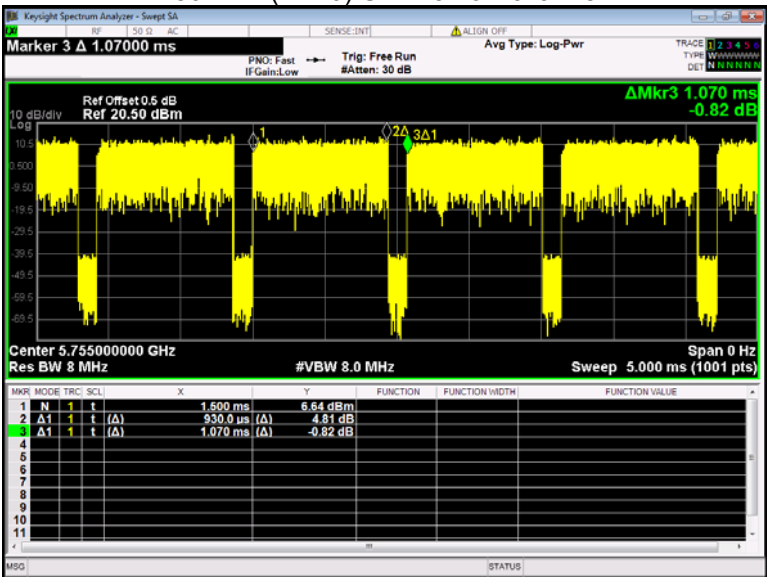
802.11a U-NII-3 Low channel



802.11n(HT20) U-NII-3 Low channel



802.11n(HT40) U-NII-3 Low channel



8 Conducted Emission

Test Requirement: 47CFR FCC Part15 Subpart C §15.207
Test Method: ANSI C63.10:2013
Test Result: PASS
Frequency Range: 150kHz to 30MHz
Limit:

Frequency (MHz)	Conducted Limit (dBμV)	
	Quasi-peak	Average
0.15 to 0.5	66 to 56*	56 to 46*
0.5 to 5.0	56	46
5.0 to 30	60	50
*Decreases with the logarithm of the frequency.		

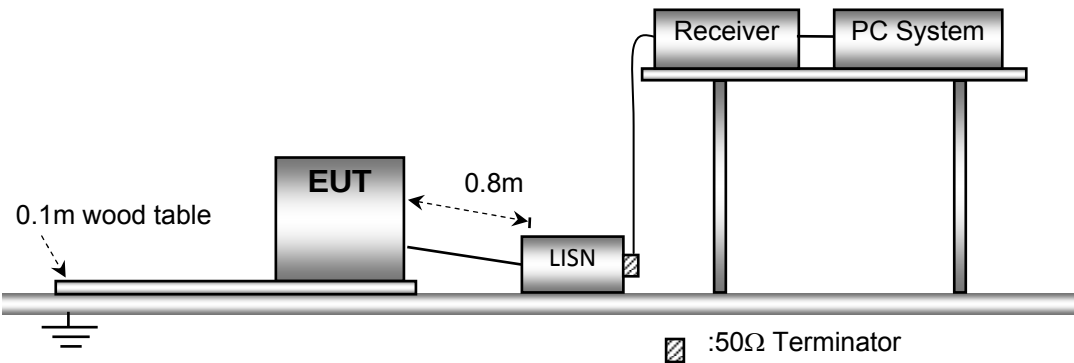
8.1 E.U.T. Operation

Operating Environment:
Temperature: 25.5 °C
Humidity: 46.3 % RH
Atmospheric Pressure: 101.2kPa
EUT Operation:

The test was performed in Transmitting mode, the worst test data were shown in the report.

8.2 EUT Setup

The conducted emission tests were performed using the setup accordance with the ANSI C63.10:2013.



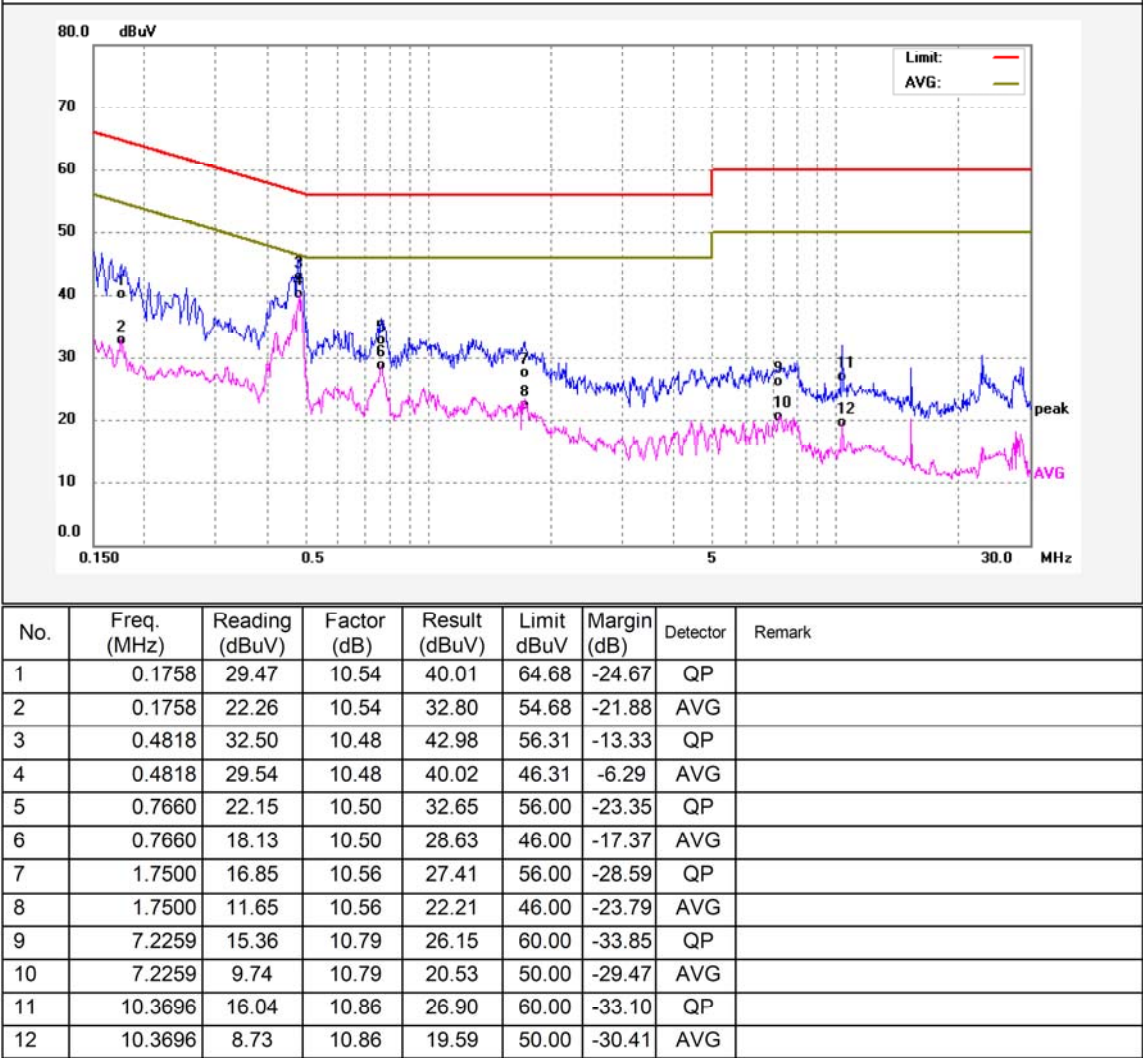
8.3 Measurement Description

The maximised peak emissions from the EUT was scanned and measured for both the Live and Neutral Lines. Quasi-peak & average measurements were performed if peak emissions were within 6dB of the average limit line.

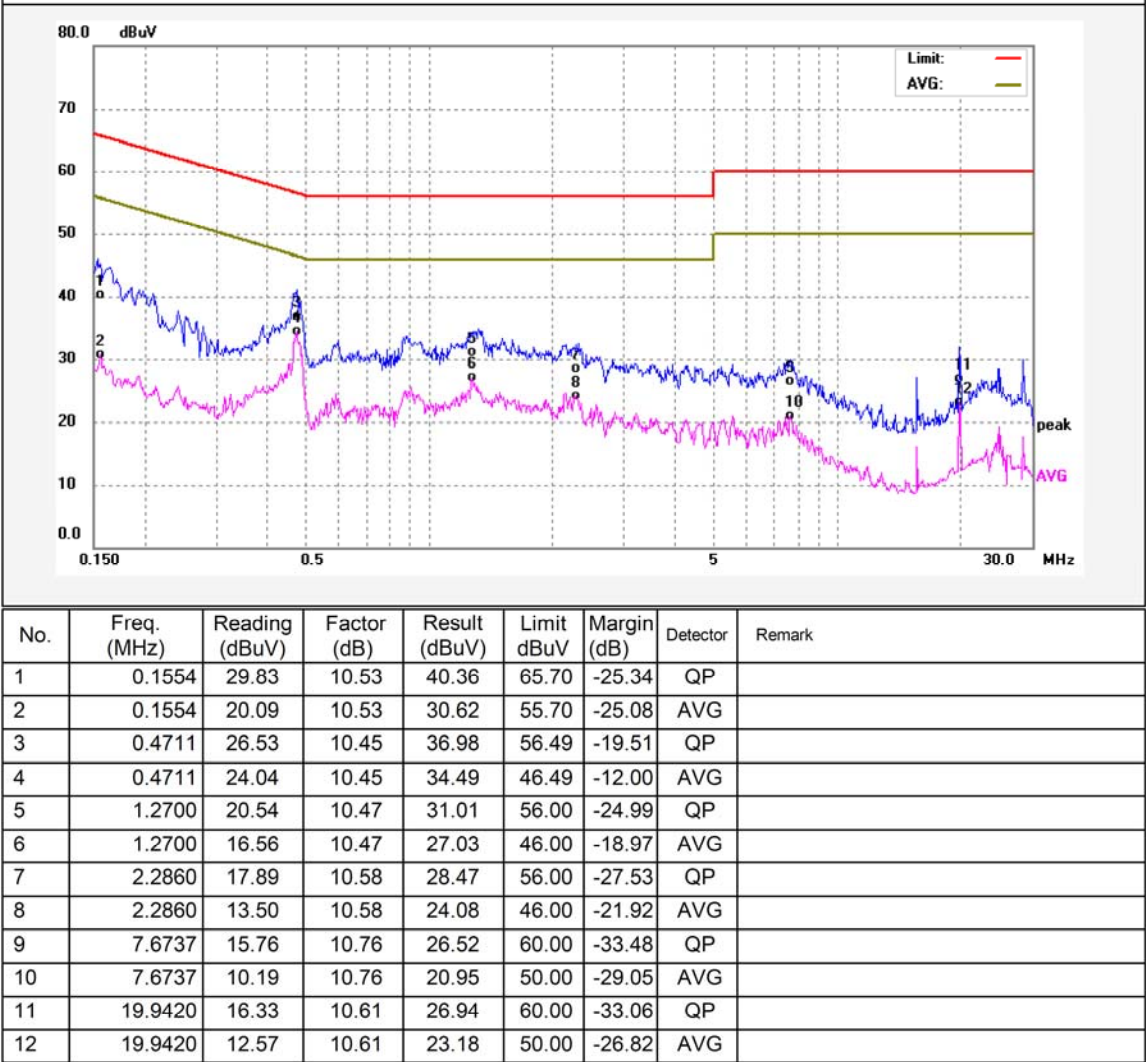
8.4 Conducted Emission Test Result

Remark: only the worst data (U-NII-1 802.11a High channel mode) were reported

Live line:



Neutral line:



9 Radiated Emissions

Test Requirement: FCC 47CFR Part 15 Section 15.209 & 15.407

Test Method: ANSI C63.10:2013

Test Result: PASS

Measurement Distance: 3m

Limit:

Frequency (MHz)	Field Strength		Field Strength Limit at 3m Measurement Distance	
	uV/m	Distance (m)	uV/m	dBuV/m
0.009 ~ 0.490	$2400/F(\text{kHz})$	300	$10000 * 2400/F(\text{kHz})$	$20\log^{(2400/F(\text{kHz}))} + 80$
0.490 ~ 1.705	$24000/F(\text{kHz})$	30	$100 * 24000/F(\text{kHz})$	$20\log^{(24000/F(\text{kHz}))} + 40$
1.705 ~ 30	30	30	$100 * 30$	$20\log^{(30)} + 40$
30 ~ 88	100	3	100	$20\log^{(100)}$
88 ~ 216	150	3	150	$20\log^{(150)}$
216 ~ 960	200	3	200	$20\log^{(200)}$
Above 960	500	3	500	$20\log^{(500)}$

9.1 EUT Operation

Operating Environment :

Temperature: 23.5 °C

Humidity: 52.1 % RH

Atmospheric Pressure: 101.2kPa

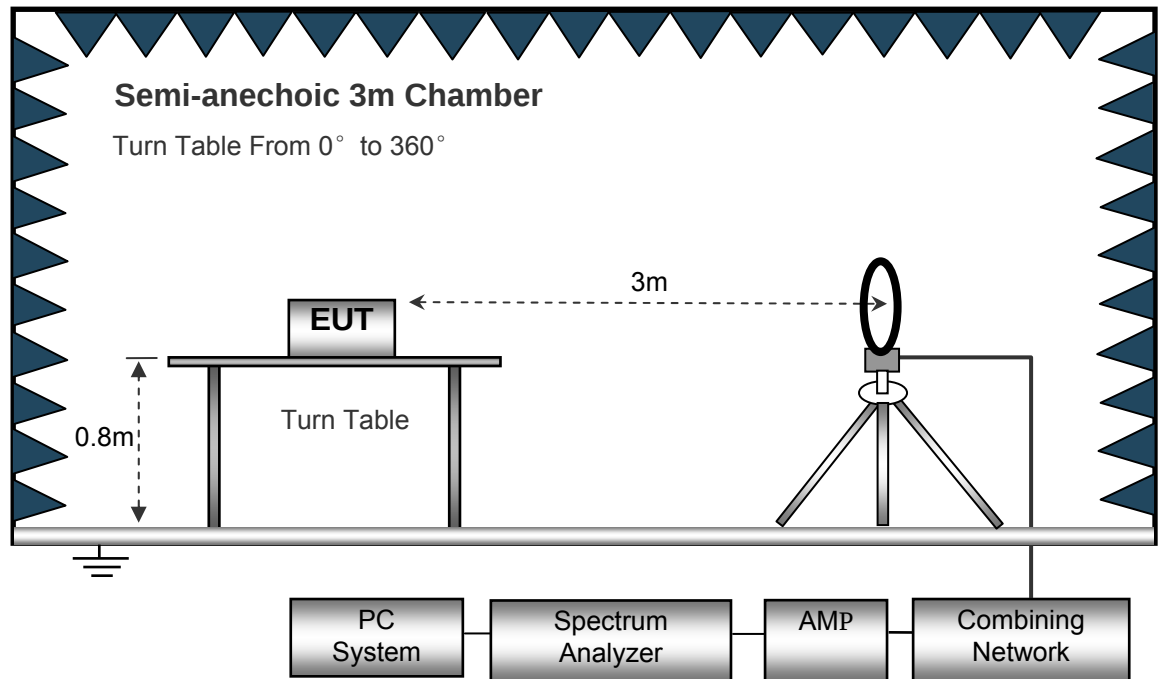
EUT Operation :

The test was performed in transmitting mode, the test data were shown in the report.

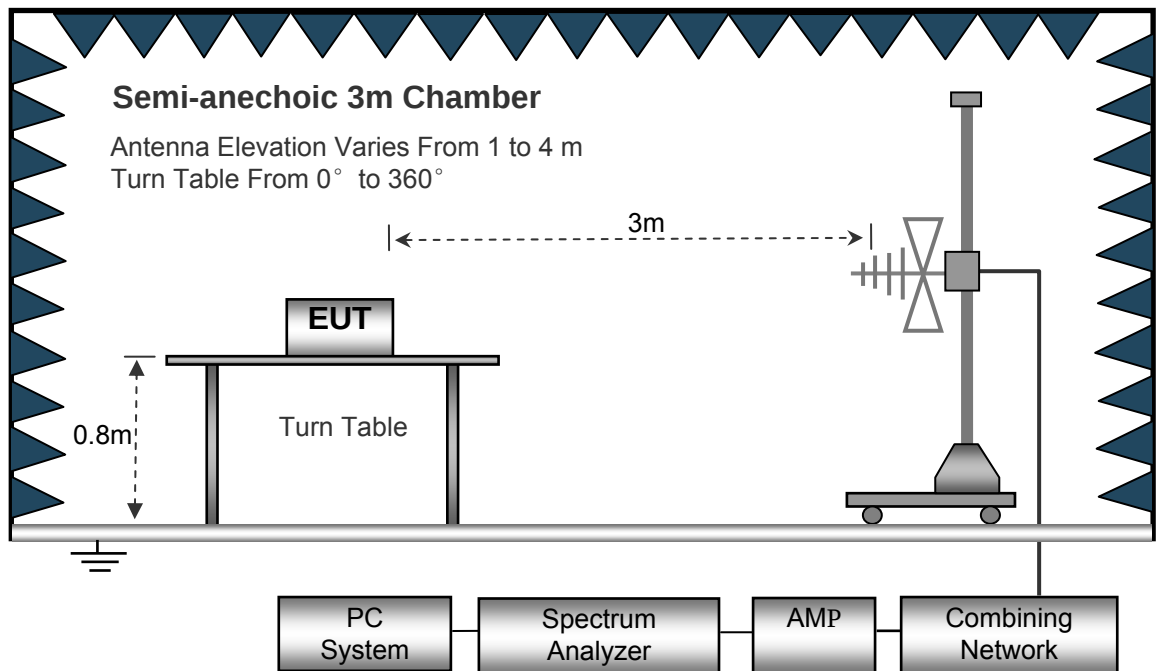
9.2 Test Setup

The radiated emission tests were performed in the 3m Semi- Anechoic Chamber test site, using the setup accordance with the ANSI C63.10: 2013.

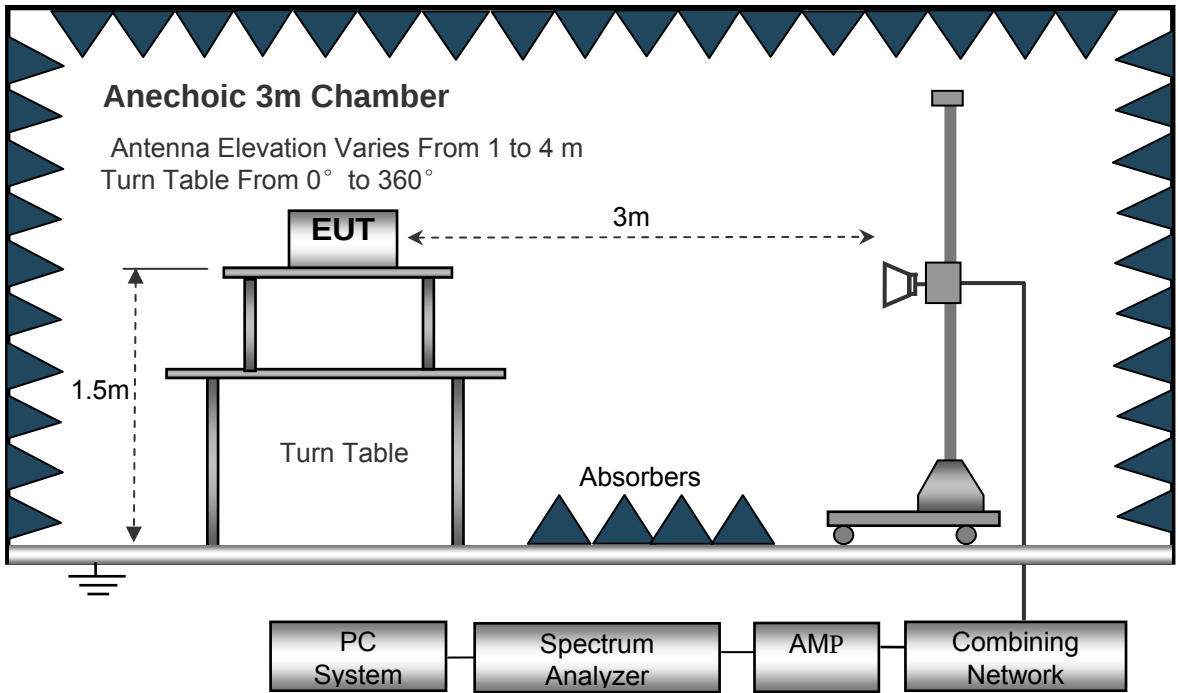
The test setup for emission measurement below 30MHz.



The test setup for emission measurement from 30 MHz to 1 GHz.



The test setup for emission measurement above 1 GHz.



9.3 Spectrum Analyzer Setup

Below 30MHz

Sweep Speed Auto
IF Bandwidth.....10kHz
Video Bandwidth.....10kHz
Resolution Bandwidth.....10kHz

30MHz ~ 1GHz

Sweep Speed Auto
DetectorPK
Resolution Bandwidth.....100kHz
Video Bandwidth.....300kHz

Above 1GHz

Sweep Speed Auto
DetectorPK
Resolution Bandwidth.....1MHz
Video Bandwidth.....3MHz
DetectorAve.
Resolution Bandwidth.....1MHz
Video Bandwidth.....10Hz

9.4 Test Procedure

1. The EUT is placed on a turntable, which is 0.8m above ground plane for below 1GHz and 1.5m for above 1GHz.
2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
3. EUT is set 3m away from the receiving antenna, which is moved from 1m to 4m to find out the maximum emissions.
4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
5. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
6. Repeat above procedures until the measurements for all frequencies are complete.
7. The radiation measurements are performed in X,Y and Z axis positioning(X denotes lying on the table, Y denotes side stand and Z denotes vertical stand),the worst condition was tested putting the eut in X axis,so the worst data were shown as follow.
8. A 2.4GHz high –pass filter is used during radiated emissions above 1GHz measurement.

9.5 Corrected Amplitude & Margin Calculation

The Corrected Amplitude is calculated by adding the Antenna Factor and Cable Factor, and subtracting the Amplifier Gain from the Amplitude reading. The basic equation is as follows:

$$\text{Corr. Ampl.} = \text{Indicated Reading} + \text{Antenna Factor} + \text{Cable Factor} - \text{Amplifier Gain}$$

The “Margin” column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of -7dB means the emission is 7dB below the maximum limit for Class B. The equation for margin calculation is as follows:

$$\text{Margin} = \text{Corr. Ampl.} - \text{Limit}$$

9.6 Summary of Test Results

Test Frequency: 9KHz~30MHz

The measurements were more than 20 dB below the limit and not reported.

Test Frequency : 30MHz ~ 18GHz

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	FCC Part 15.407/209/205	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
802.11a U-NII-1 Low Channel 5180MHz									
231.85	36.49	QP	223	1.1	H	-11.62	24.87	46.00	-21.13
231.85	38.72	QP	240	1.4	V	-11.62	27.10	46.00	-18.90
4535.60	53.44	PK	355	1.1	H	-2.03	51.41	74.00	-22.59
4535.60	44.11	Ave	355	1.1	H	-2.03	42.08	54.00	-11.92
5144.69	53.70	PK	296	1.2	H	-1.02	52.68	74.00	-21.32
5144.69	44.84	Ave	296	1.2	H	-1.02	43.82	54.00	-10.18
10360.00	41.10	PK	2	1.1	H	5.33	46.43	74.00	-27.57
10360.00	37.93	Ave	2	1.1	H	5.33	43.26	54.00	-10.74
802.11a U-NII-1 Middle channel 5200MHz									
231.85	36.96	QP	274	1.2	H	-11.62	25.34	46.00	-20.66
231.85	38.72	QP	203	1.2	V	-11.62	27.10	46.00	-18.90
4539.60	53.24	PK	261	1.6	H	-1.94	51.30	74.00	-22.70
4539.60	43.01	Ave	261	1.6	H	-1.94	41.07	54.00	-12.93
5115.68	55.59	PK	269	1.5	H	-1.06	54.53	74.00	-19.47
5115.68	45.18	Ave	269	1.5	H	-1.06	44.12	54.00	-9.88
10400.00	41.15	PK	28	1.6	H	5.21	46.36	74.00	-27.64
10400.00	39.25	Ave	28	1.6	H	5.21	44.46	54.00	-9.54

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	FCC Part 15.407/209/205	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
802.11a U-NII-1 High channel 5240MHz									
231.85	36.23	QP	320	1.5	H	-11.62	24.61	46.00	-21.39
231.85	39.24	QP	232	1.0	V	-11.62	27.62	46.00	-18.38
4539.65	53.88	PK	208	1.4	H	-2.24	51.64	74.00	-22.36
4539.65	43.91	Ave	208	1.4	H	-2.24	41.67	54.00	-12.33
5141.28	55.85	PK	139	1.2	H	-1.09	54.76	74.00	-19.24
5141.28	45.08	Ave	139	1.2	H	-1.09	43.99	54.00	-10.01
10480.00	42.25	PK	138	1.1	H	5.14	47.39	74.00	-26.61
10480.00	37.03	Ave	138	1.1	H	5.14	42.17	54.00	-11.83
802.11a U-NII-3 Low Channel 5745MHz									
231.85	35.32	QP	184	1.9	H	-11.62	23.70	46.00	-22.30
231.85	40.13	QP	202	2.0	V	-11.62	28.51	46.00	-17.49
4501.81	54.65	PK	338	2.0	H	-2.06	52.59	74.00	-21.41
4501.81	43.82	Ave	338	2.0	H	-2.06	41.76	54.00	-12.24
5354.30	42.28	PK	17	1.5	H	5.93	48.21	74.00	-25.79
5354.30	37.49	Ave	17	1.5	H	5.93	43.42	54.00	-10.58
11490.00	45.90	PK	198	2.0	H	-1.25	44.65	74.00	-29.35
11490.00	39.47	Ave	198	2.0	H	-1.25	38.22	54.00	-15.78

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	FCC Part 15.407/209/205	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
802.11a U-NII-3 middle channel 5785MHz									
231.85	36.67	QP	233	1.7	H	-11.62	25.05	46.00	-20.95
231.85	40.27	QP	238	2.0	V	-11.62	28.65	46.00	-17.35
4514.87	55.09	PK	15	1.9	H	-2.03	53.06	74.00	-20.94
4514.87	42.81	Ave	15	1.9	H	-2.03	40.78	54.00	-13.22
5387.56	42.72	PK	282	1.8	H	5.81	48.53	74.00	-25.47
5387.56	36.47	Ave	282	1.8	H	5.81	42.28	54.00	-11.72
11570.00	46.23	PK	324	1.7	H	-1.22	45.01	74.00	-28.99
11570.00	39.28	Ave	324	1.7	H	-1.22	38.06	54.00	-15.94
802.11a U-NII-3 High channel 5825MHz									
231.85	35.99	QP	339	1.7	H	-11.62	24.37	46.00	-21.63
231.85	41.28	QP	330	1.5	V	-11.62	29.66	46.00	-16.34
4504.50	56.35	PK	326	2.0	H	-1.84	54.51	74.00	-19.49
4504.50	42.96	Ave	326	2.0	H	-1.84	41.12	54.00	-12.88
5354.13	42.94	PK	226	1.0	H	5.84	48.78	74.00	-25.22
5354.13	38.02	Ave	226	1.0	H	5.84	43.86	54.00	-10.14
11650.00	46.46	PK	301	1.7	H	-1.30	45.16	74.00	-28.84
11650.00	39.72	Ave	301	1.7	H	-1.30	38.42	54.00	-15.58

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	FCC Part 15.407/209/205	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
802.11n(HT20) U-NII-1 Low Channel 5180MHz									
231.85	33.08	QP	35	1.8	H	-11.62	21.46	46.00	-24.54
231.85	39.96	QP	24	1.1	V	-11.62	28.34	46.00	-17.66
4525.43	48.92	PK	113	1.9	H	-2.14	46.78	74.00	-27.22
4525.43	47.71	Ave	113	1.9	H	-2.14	45.57	54.00	-8.43
5133.05	45.86	PK	326	1.3	H	-1.06	44.80	74.00	-29.20
5133.05	38.07	Ave	326	1.3	H	-1.06	37.01	54.00	-16.99
10360.00	42.40	PK	306	1.7	H	5.33	47.73	74.00	-26.27
10360.00	37.51	Ave	306	1.7	H	5.33	42.84	54.00	-11.16
802.11n(HT20) U-NII-1 Middle channel 5200MHz									
231.85	33.89	QP	349	1.2	H	-11.62	22.27	46.00	-23.73
231.85	40.60	QP	12	1.2	V	-11.62	28.98	46.00	-17.02
4512.09	49.80	PK	212	1.7	H	-2.12	47.68	74.00	-26.32
4512.09	46.61	Ave	212	1.7	H	-2.12	44.49	54.00	-9.51
5141.27	46.54	PK	54	1.8	H	-1.06	45.48	74.00	-28.52
5141.27	37.28	Ave	54	1.8	H	-1.06	36.22	54.00	-17.78
10400.00	41.10	PK	286	1.8	H	5.21	46.31	74.00	-27.69
10400.00	35.85	Ave	286	1.8	H	5.21	41.06	54.00	-12.94

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	FCC Part 15.407/209/205	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
802.11n(HT20) U-NII-1 High channel 5240MHz									
231.85	33.66	QP	289	1.0	H	-11.62	22.04	46.00	-23.96
231.85	39.56	QP	237	1.8	V	-11.62	27.94	46.00	-18.06
4500.53	48.61	PK	224	1.5	H	-1.96	46.65	74.00	-27.35
4500.53	47.98	Ave	224	1.5	H	-1.96	46.02	54.00	-7.98
5121.50	47.36	PK	26	1.8	H	-1.06	46.30	74.00	-27.70
5121.50	37.03	Ave	26	1.8	H	-1.06	35.97	54.00	-18.03
10480.00	40.60	PK	19	1.2	H	5.14	45.74	74.00	-28.26
10480.00	36.96	Ave	19	1.2	H	5.14	42.10	54.00	-11.90
802.11n(HT20) U-NII-3 Low Channel 5745MHz									
231.85	38.16	QP	27	1.4	H	-11.62	26.54	46.00	-19.46
231.85	45.18	QP	170	1.8	V	-11.62	33.56	46.00	-12.44
4500.96	49.29	PK	43	1.6	H	-2.06	47.23	74.00	-26.77
4500.96	47.75	Ave	43	1.6	H	-2.06	45.69	54.00	-8.31
5380.92	38.37	PK	65	1.4	H	5.93	44.30	74.00	-29.70
5380.92	40.00	Ave	65	1.4	H	5.93	45.93	54.00	-8.07
11490.00	46.71	PK	31	1.9	H	-1.25	45.46	74.00	-28.54
11490.00	37.09	Ave	31	1.9	H	-1.25	35.84	54.00	-18.16

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	FCC Part 15.407/209/205	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
802.11n(HT20) U-NII-3 middle channel 5785MHz									
231.85	35.79	QP	72	1.2	H	-11.62	24.17	46.00	-21.83
231.85	46.51	QP	104	1.9	V	-11.62	34.89	46.00	-11.11
4522.73	45.74	PK	24	1.8	H	-2.03	43.71	74.00	-30.29
4522.73	46.96	Ave	24	1.8	H	-2.03	44.93	54.00	-9.07
5359.54	37.00	PK	125	1.0	H	5.81	42.81	74.00	-31.19
5359.54	38.57	Ave	125	1.0	H	5.81	44.38	54.00	-9.62
11570.00	45.66	PK	249	1.2	H	-1.22	44.44	74.00	-29.56
11570.00	38.91	Ave	249	1.2	H	-1.22	37.69	54.00	-16.31
802.11n(HT20) U-NII-3 High channel 5825MHz									
231.85	34.71	QP	330	1.4	H	-11.62	23.09	46.00	-22.91
231.85	46.93	QP	165	1.8	V	-11.62	35.31	46.00	-10.69
4512.87	45.31	PK	32	1.9	H	-1.84	43.47	74.00	-30.53
4512.87	46.64	Ave	32	1.9	H	-1.84	44.80	54.00	-9.20
5368.00	36.96	PK	69	1.2	H	5.84	42.80	74.00	-31.20
5368.00	39.77	Ave	69	1.2	H	5.84	45.61	54.00	-8.39
11650.00	46.41	PK	189	1.4	H	-1.30	45.11	74.00	-28.89
11650.00	39.78	Ave	189	1.4	H	-1.30	38.48	54.00	-15.52

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	FCC Part 15.407/209/205	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
802.11n(HT40) U-NII-1 Low Channel 5190MHz									
231.85	36.50	QP	223	1.6	H	-11.62	24.88	46.00	-21.12
231.85	40.38	QP	291	1.6	V	-11.62	28.76	46.00	-17.24
4501.60	44.61	PK	277	1.3	H	-1.89	42.72	74.00	-31.28
4501.60	34.80	Ave	277	1.3	H	-1.89	32.91	54.00	-21.09
5127.11	46.90	PK	11	1.3	H	-1.06	45.84	74.00	-28.16
5127.11	39.89	Ave	11	1.3	H	-1.06	38.83	54.00	-15.17
10380.00	38.43	PK	15	1.6	H	5.26	43.69	74.00	-30.31
10380.00	35.03	Ave	15	1.6	H	5.26	40.29	54.00	-13.71
802.11n(HT40) U-NII-1 High channel 5230MHz									
231.85	37.30	QP	290	1.6	H	-11.62	25.68	46.00	-20.32
231.85	40.00	QP	142	1.9	V	-11.62	28.38	46.00	-17.62
4502.58	45.41	PK	329	1.6	H	-1.94	43.47	74.00	-30.53
4502.58	34.19	Ave	329	1.6	H	-1.94	32.25	54.00	-21.75
5131.93	48.62	PK	90	1.6	H	-1.06	47.56	74.00	-26.44
5131.93	41.27	Ave	90	1.6	H	-1.06	40.21	54.00	-13.79
10460.00	42.20	PK	201	1.3	H	5.28	47.48	74.00	-26.52
10460.00	38.35	Ave	201	1.3	H	5.28	43.63	54.00	-10.37

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	FCC Part 15.407/209/205	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
802.11n(HT40) U-NII-3 Low Channel 5755MHz									
231.85	34.57	QP	51	1.1	H	-11.62	22.95	46.00	-23.05
231.85	45.36	QP	204	1.9	V	-11.62	33.74	46.00	-12.26
4511.96	42.01	PK	223	1.1	H	-1.96	40.05	74.00	-33.95
4511.96	34.16	Ave	223	1.1	H	-1.96	32.20	54.00	-21.80
5359.67	39.77	PK	197	1.9	H	5.88	45.65	74.00	-28.35
5359.67	34.09	Ave	197	1.9	H	5.88	39.97	54.00	-14.03
11510.00	46.55	PK	356	1.8	H	-1.01	45.54	74.00	-28.46
11510.00	39.26	Ave	356	1.8	H	-1.01	38.25	54.00	-15.75
802.11n(HT40) U-NII-3 High Channel 5795MHz									
231.85	34.01	QP	44	1.1	H	-11.62	22.39	46.00	-23.61
231.85	46.24	QP	360	1.5	V	-11.62	34.62	46.00	-11.38
4520.57	42.48	PK	288	1.5	H	-1.92	40.56	74.00	-33.44
4520.57	33.27	Ave	288	1.5	H	-1.92	31.35	54.00	-22.65
5387.25	43.01	PK	78	1.8	H	5.63	48.64	74.00	-25.36
5387.25	37.11	Ave	78	1.8	H	5.63	42.74	54.00	-11.26
11590.00	45.20	PK	182	1.7	H	-1.04	44.16	74.00	-29.84
11590.00	39.76	Ave	182	1.7	H	-1.04	38.72	54.00	-15.28

Test Frequency: 12GHz~40GHz

The measurements were more than 20 dB below the limit and not reported.

10 Band Edge

Test Requirement:	FCC 47CFR Part 15 Section 15.407
Test Method:	ANSI C63.10 2013
Test Limit:	For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27dBm/MHz. For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz. For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz. For transmitters operating in the 5.725-5.85 GHz band: (i) All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing 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. (ii) Devices certified before March 2, 2017 with antenna gain greater than 10 dBi may demonstrate compliance with the emission limits in §15.247(d), but manufacturing, marketing and importing of devices certified under this alternative must cease by March 2, 2018. Devices certified before March 2, 2018 with antenna gain of 10 dBi or less may demonstrate compliance with the emission limits in §15.247(d), but manufacturing, marketing and importing of devices certified under this alternative must cease before March 2, 2020.
Test Result:	PASS

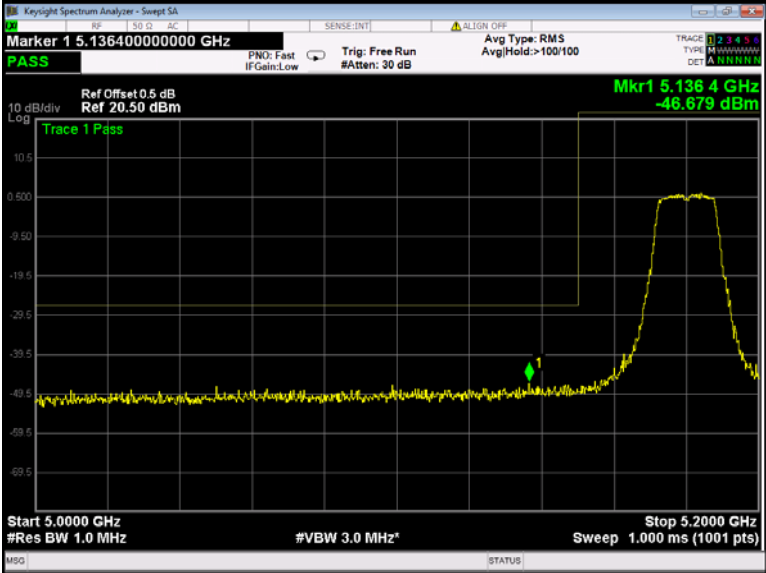
10.1 Test Produce

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Position the EUT without connection to measurement instrument. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. Then set it to any one measured frequency within its operating range, and make sure the instrument is operated in its linear range.
3. Set RBW to 100 kHz and VBW of spectrum analyzer to 300 kHz with a convenient frequency span including 100 kHz bandwidth from band edge.
4. Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.
5. Repeat above procedures until all measured frequencies were complete.

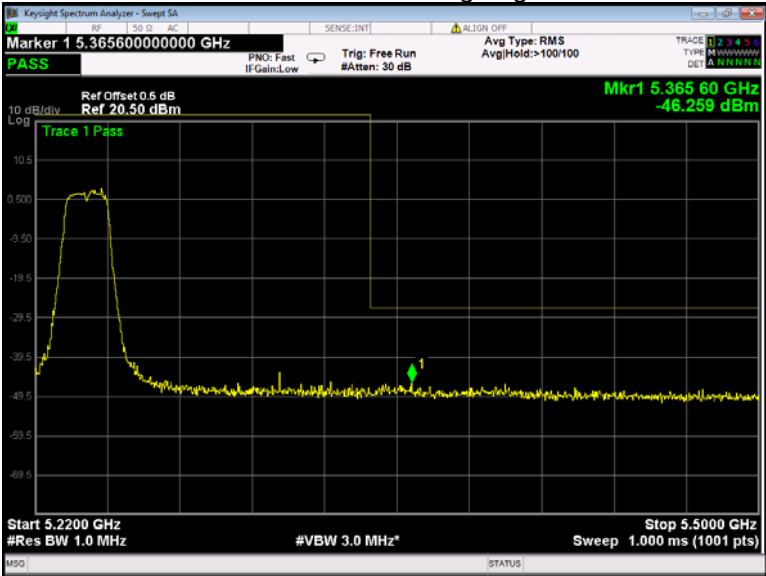
10.2 Test Result

Test result plots shown as follows:

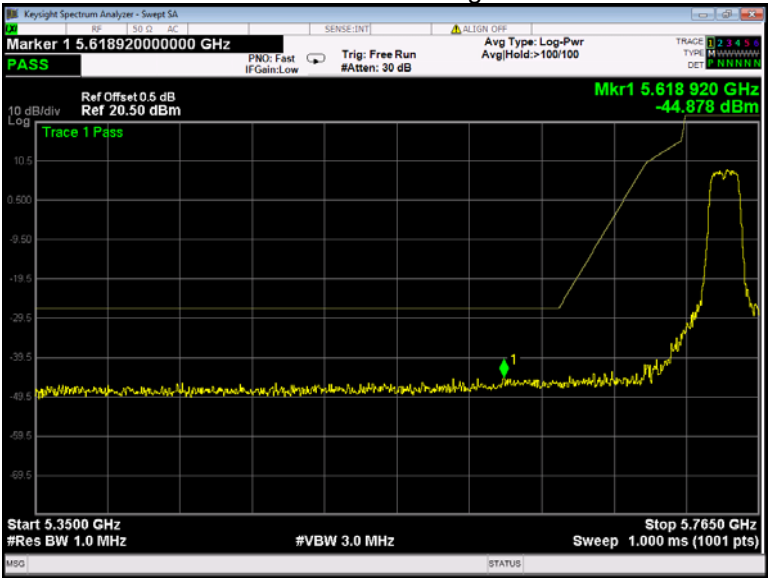
802.11a U-NII-1 Band edge-left side



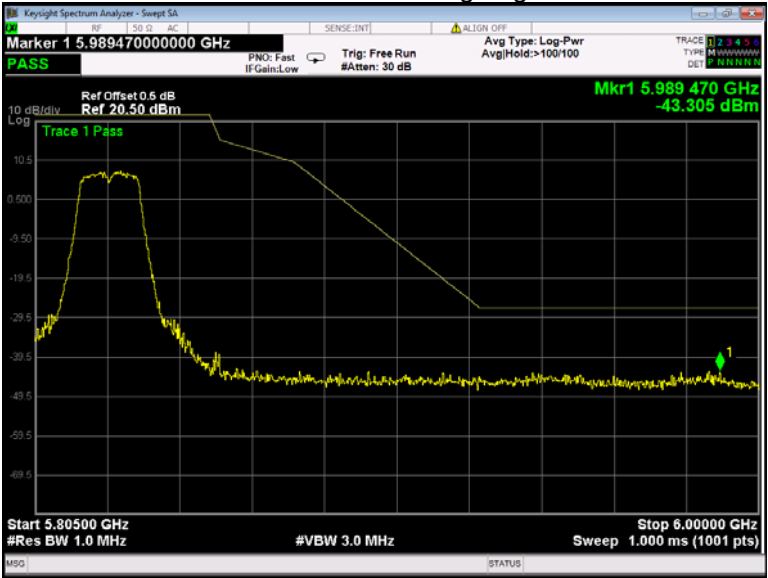
802.11a U-NII-1 Band edge-right side



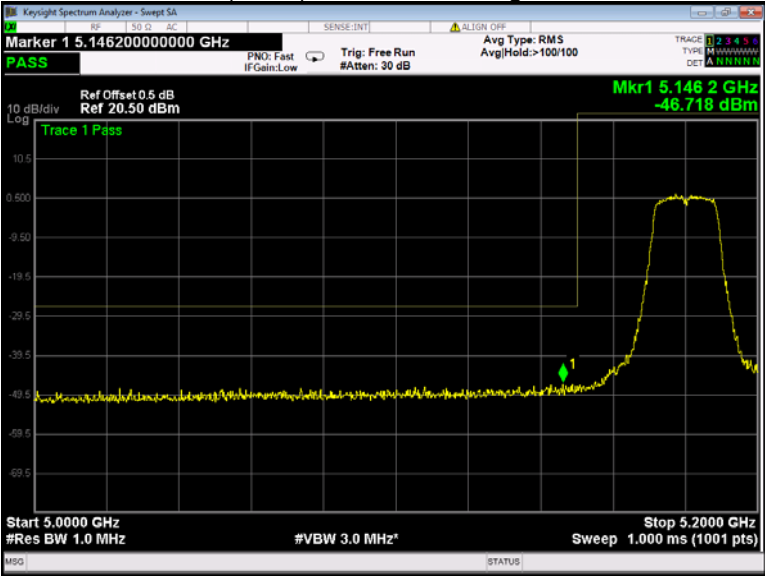
802.11a U-NII-3 Band edge-left side



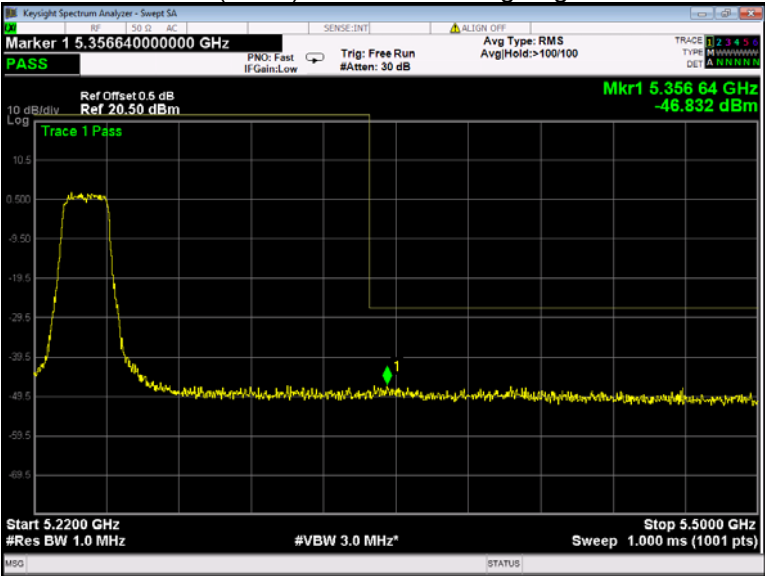
802.11a U-NII-3 Band edge-right side



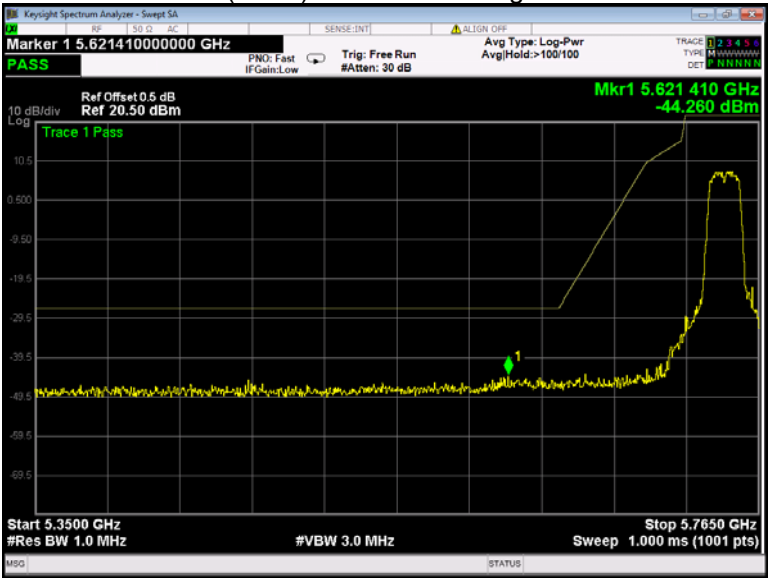
802.11n(HT20) U-NII-1 Band edge-left side



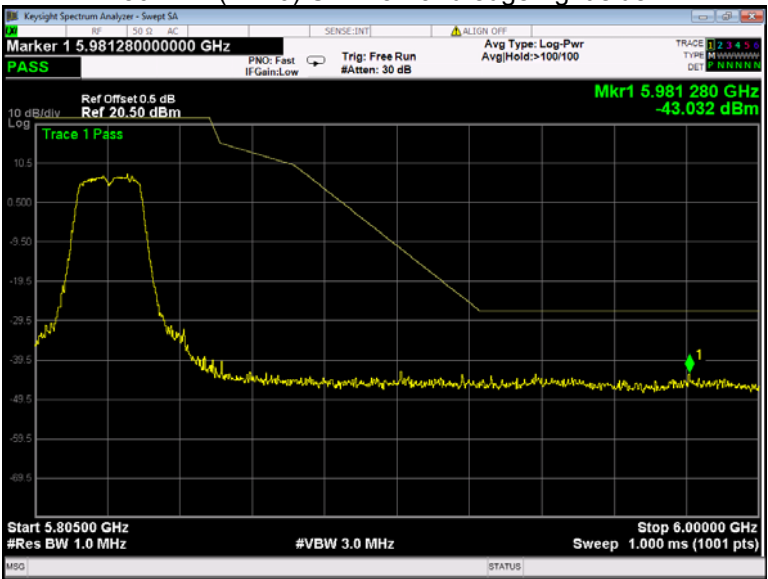
802.11n(HT20) U-NII-1 Band edge-right side



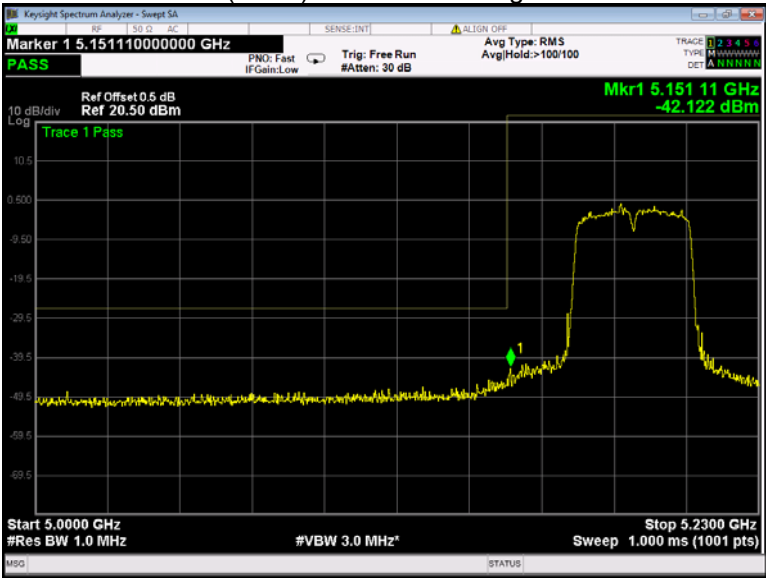
802.11n(HT20) U-NII-3 Band edge-left side



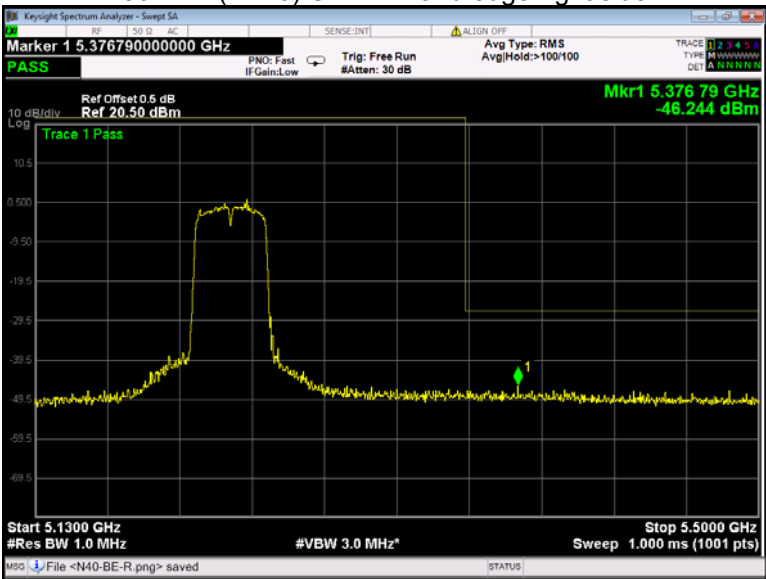
802.11n(HT20) U-NII-3 Band edge-right side



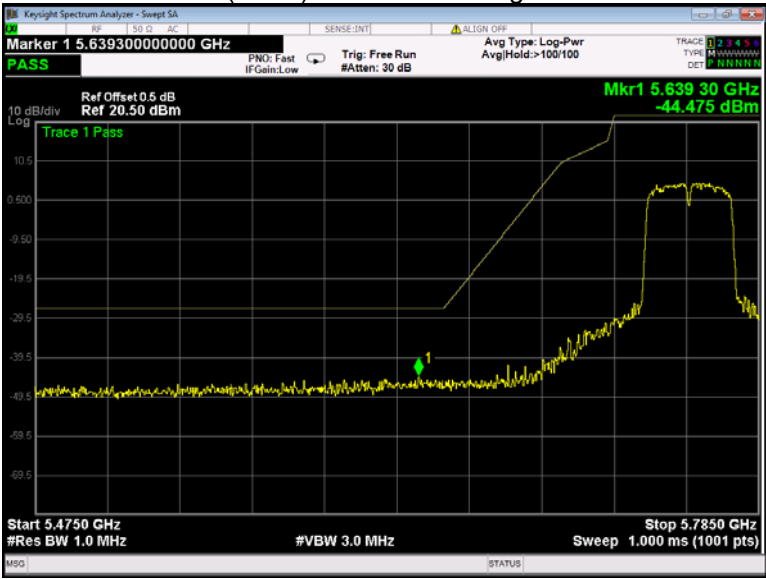
802.11n(HT40) U-NII-1 Band edge-left side



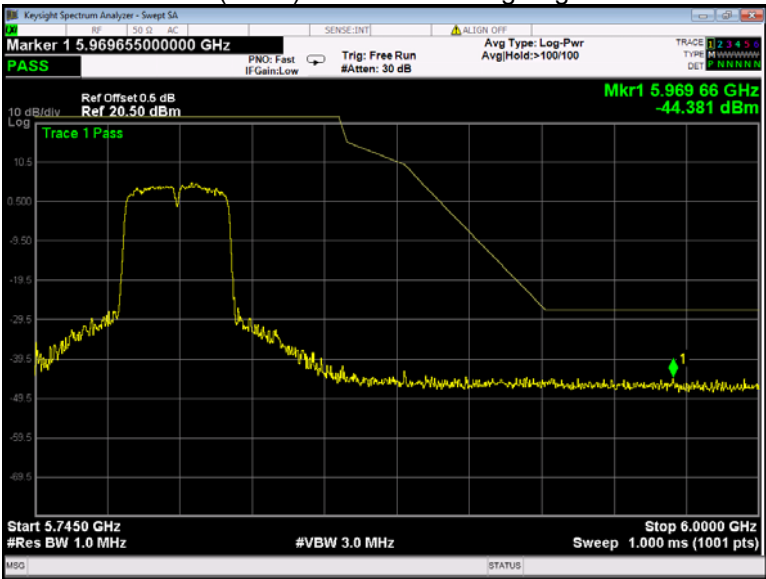
802.11n(HT40) U-NII-1 Band edge-right side



802.11n(HT40) U-NII-3 Band edge-left side



802.11n(HT40) U-NII-3 Band edge-right side



11 6 dB Bandwidth

Test Requirement: FCC 47CFR Part 15 Section 15.407(e)
 KDB662911 D01 Multiple Transmitter Output v02r01
 Test Method: KDB789033 D02 General U-NII Test Procedures New Rules v02r01
 Section C
 Test Limit: ≥ 500 kHz
 Test Result: PASS

11.1 Test Procedure

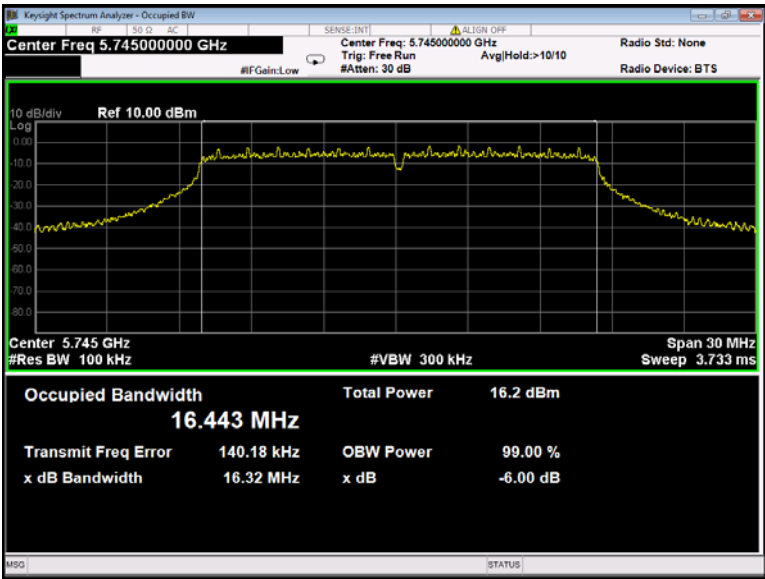
1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum;
2. Set the spectrum analyzer: RBW = 100kHz, VBW = 300kHz

11.2 Test Result

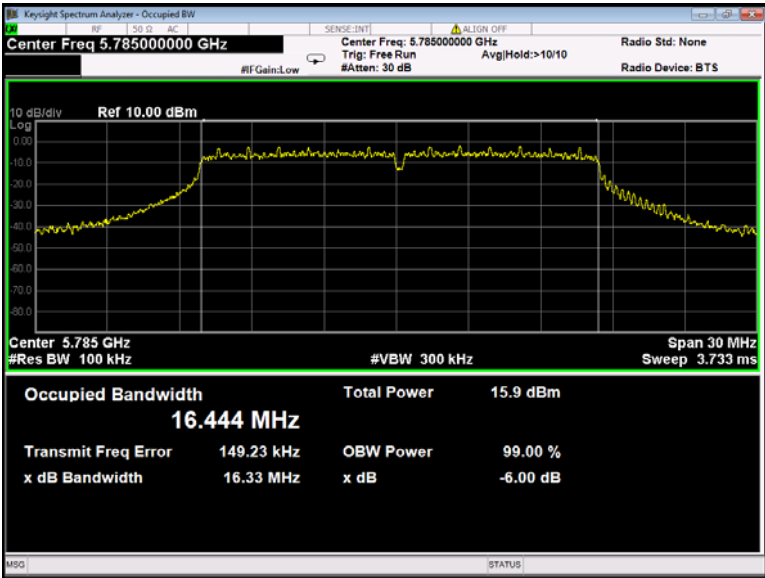
Band	Operation mode	6 dB Bandwidth (MHz)		
		Low	Middle	High
U-NII-3	802.11a	16.32	16.33	16.32
	802.11n(HT20)	17.18	17.30	17.52
	802.11n(HT40)	35.37	/	35.14

Test result plots shown as follows:

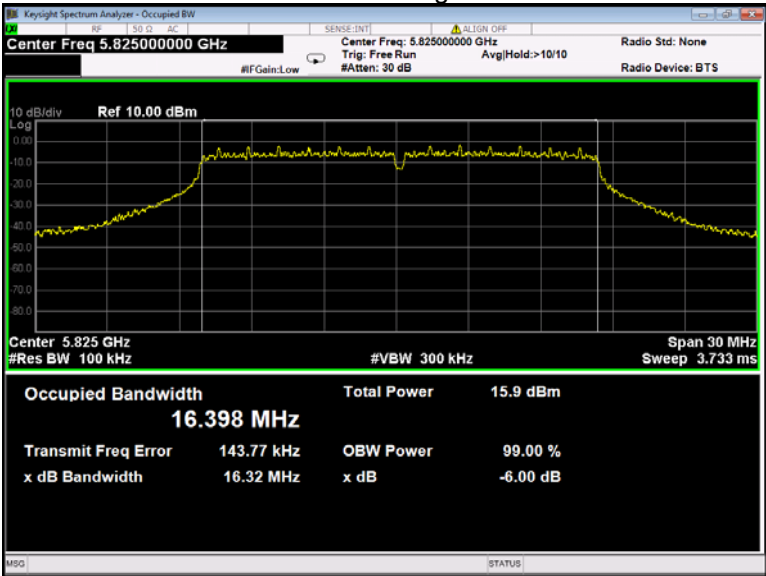
802.11a U-NII-3 Low channel



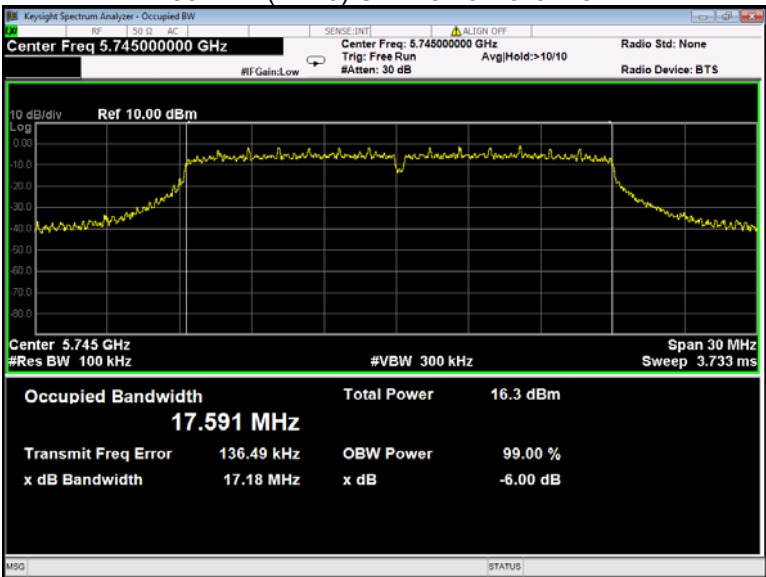
802.11a U-NII-3 Middle channel



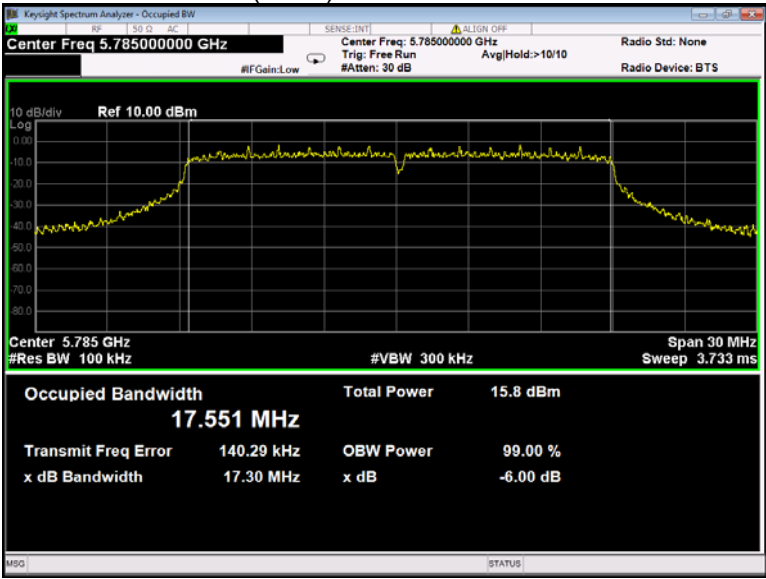
802.11a U-NII-3 High channel



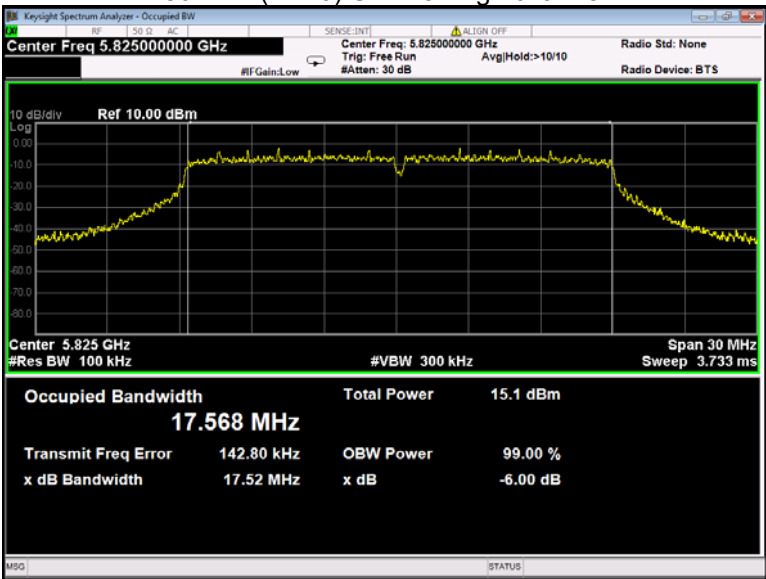
802.11n(HT20) U-NII-3 Low channel



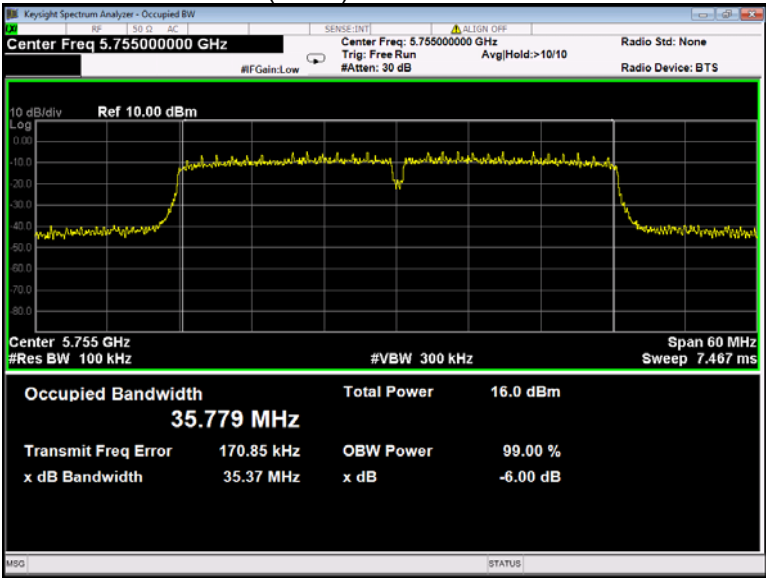
802.11n(HT20) U-NII-3 Middle channel



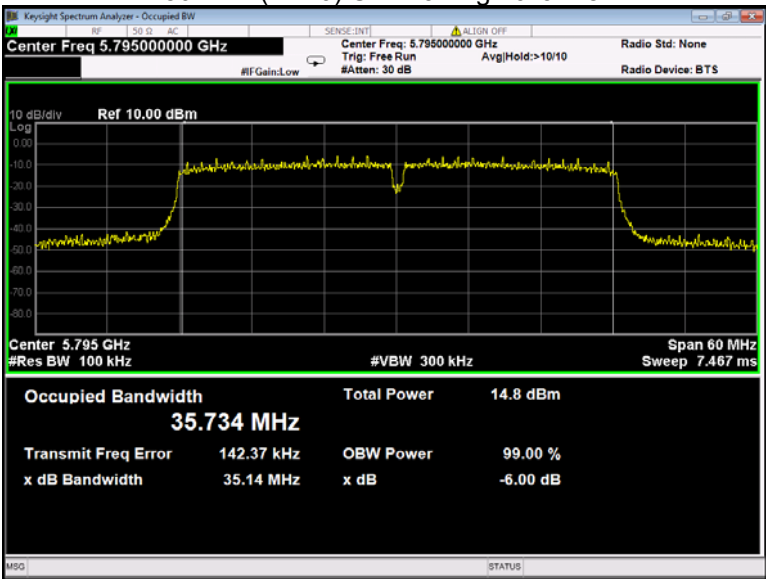
802.11n(HT20) U-NII-3 High channel



802.11n(HT40) U-NII-3 Low channel



802.11n(HT40) U-NII-3 High channel



12 26 dB Bandwidth and 99% Occupied Bandwidth

Test Requirement:	FCC 47CFR Part 15 Section 15.407 (a) KDB662911 D01 Multiple Transmitter Output v02r01
Test Method:	KDB789033 D02 General U-NII Test Procedures New Rules v02r01 Section D
Test Limit:	No restriction limits
Test Result:	PASS

12.1 Test Procedure

1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum;
2. Set the spectrum analyzer: RBW = 1% to 5% of the OBW, VBW = 3x RBW

12.2 Test Result

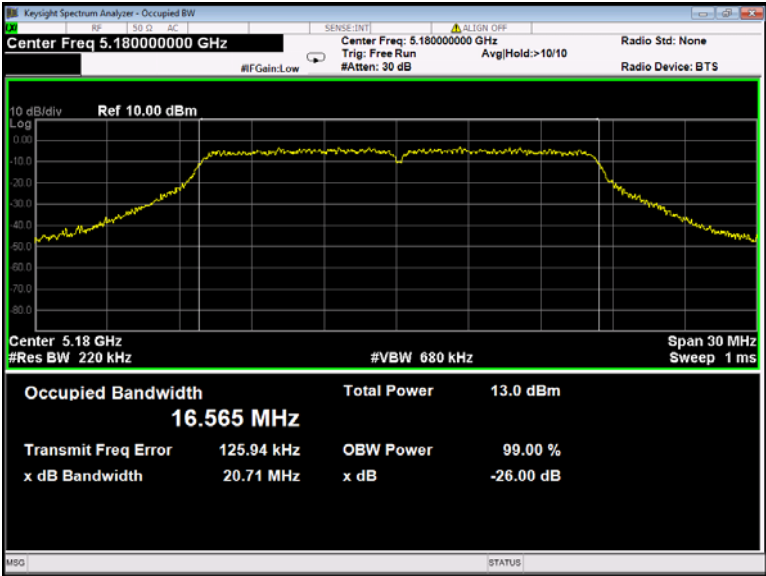
Band	Operation mode	26 dB Bandwidth (MHz)			99% Bandwidth (MHz)		
		Low	Middle	High	Low	Middle	High
U-NII-1	802.11a	20.71	20.98	20.86	16.565	16.567	16.583
	802.11n(HT20)	21.24	21.83	21.28	17.652	17.690	17.632
	802.11n(HT40)	38.49	/	39.07	35.744	/	35.697

Band	Operation mode	99% Bandwidth (MHz)		
		Low	Middle	High
U-NII-3	802.11a	16.611	16.532	16.558
	802.11n(HT20)	17.691	17.683	17.606
	802.11n(HT40)	35.790	/	35.788

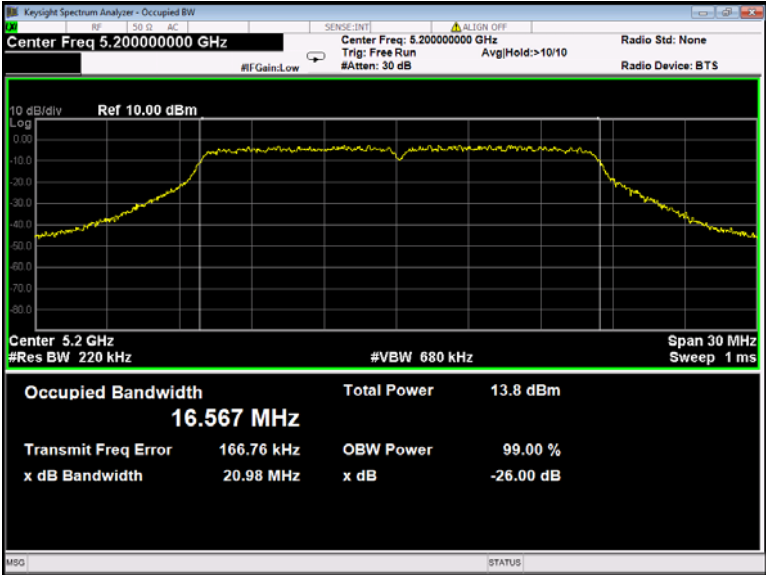
Test result plots shown as follows:

26 dB Bandwidth and 99% Occupied Bandwidth

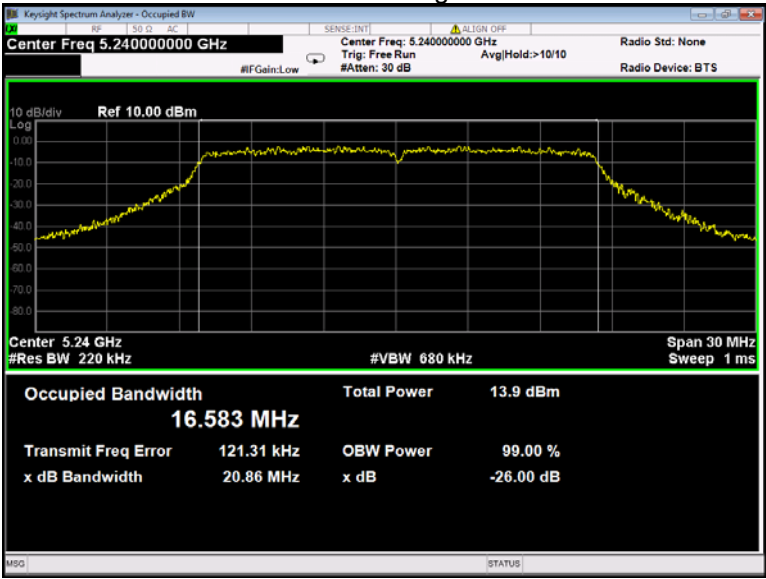
802.11a U-NII-1 Low channel



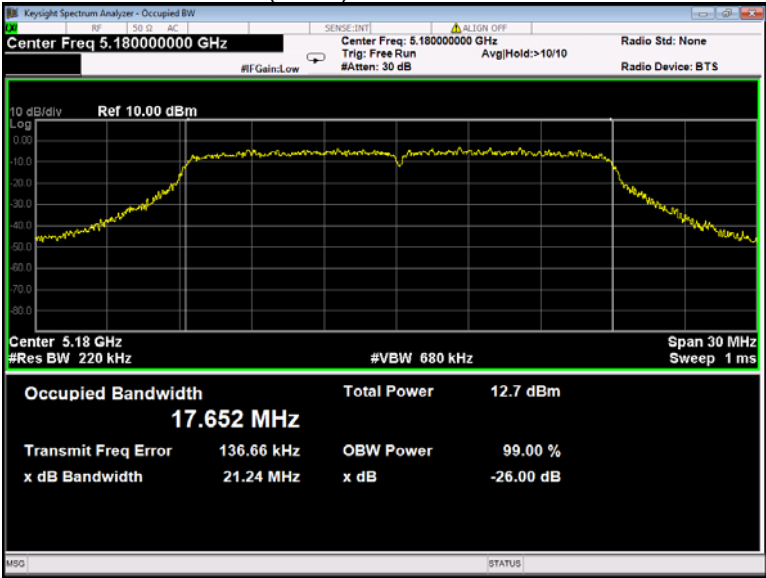
802.11a U-NII-1 Middle channel



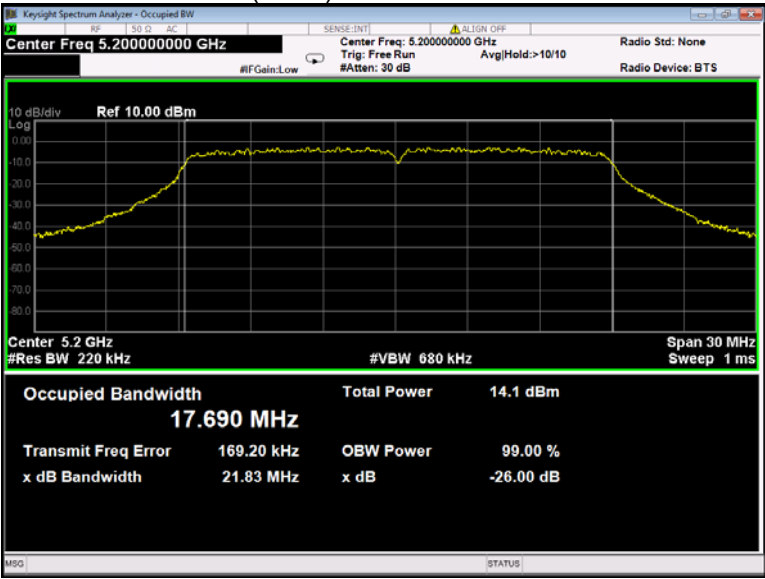
802.11a U-NII-1 High channel



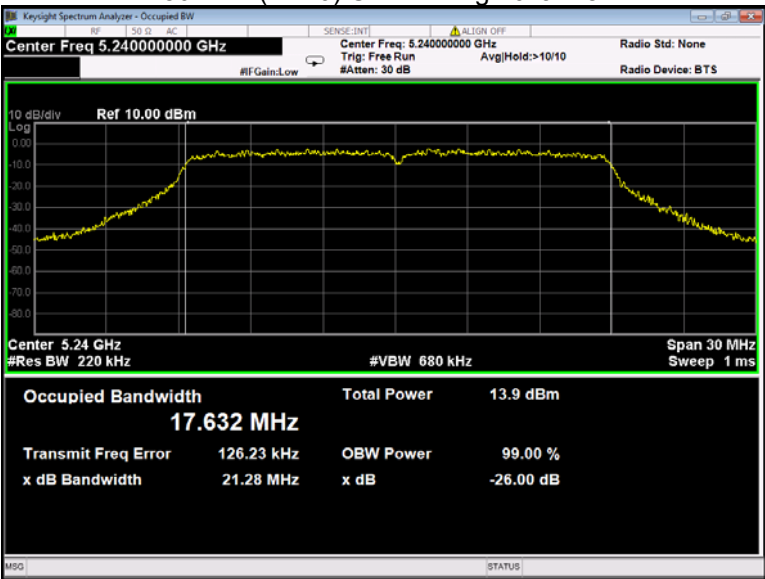
802.11n(HT20) U-NII-1 Low channel



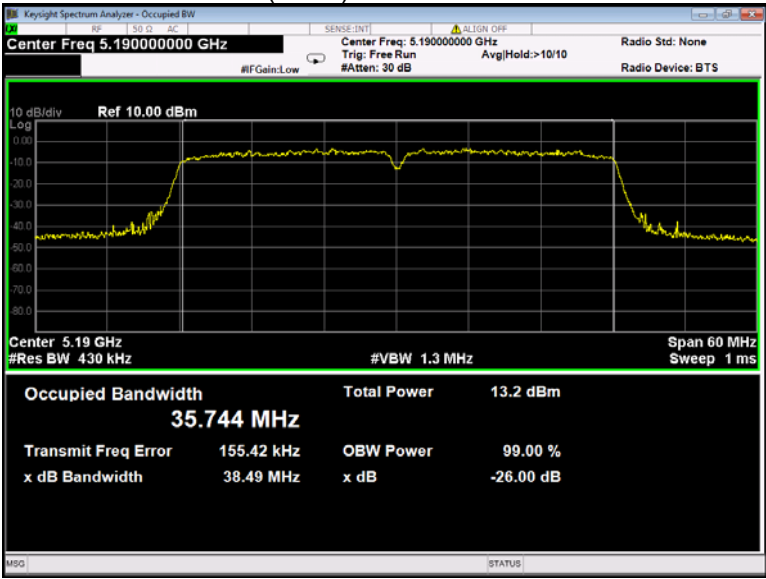
802.11n(HT20) U-NII-1 Middle channel



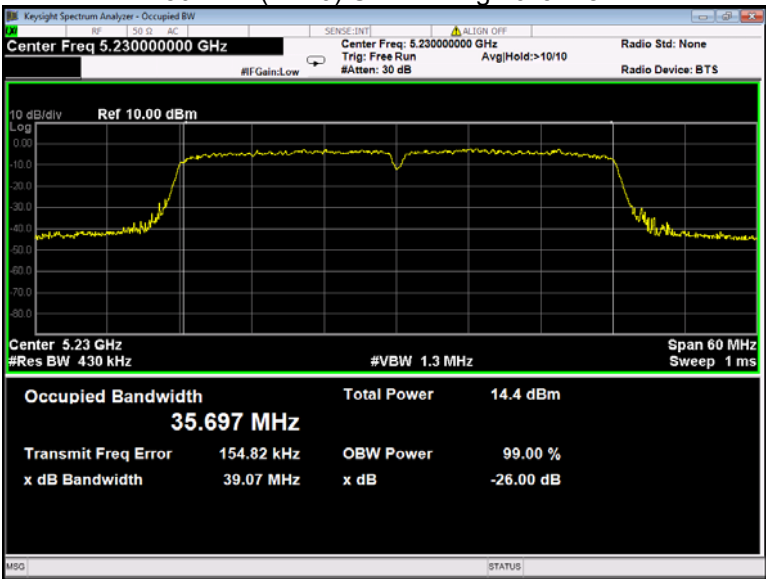
802.11n(HT20) U-NII-1 High channel



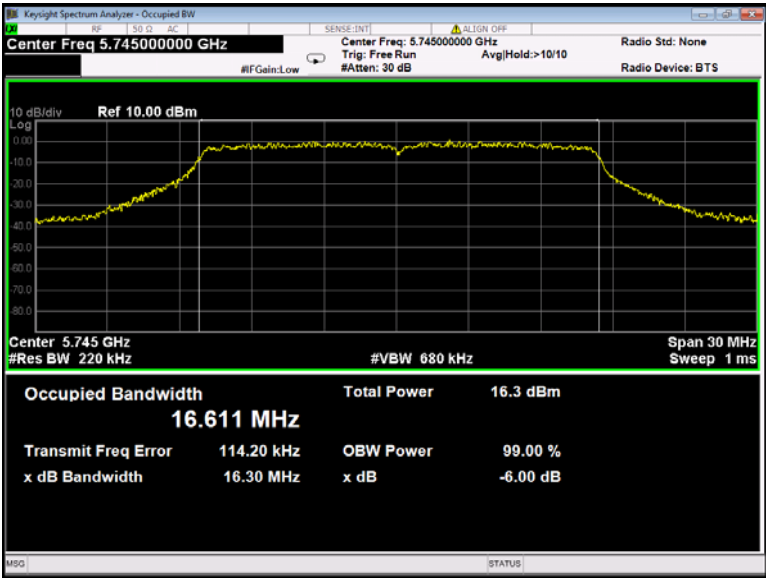
802.11n(HT40) U-NII-1 Low channel



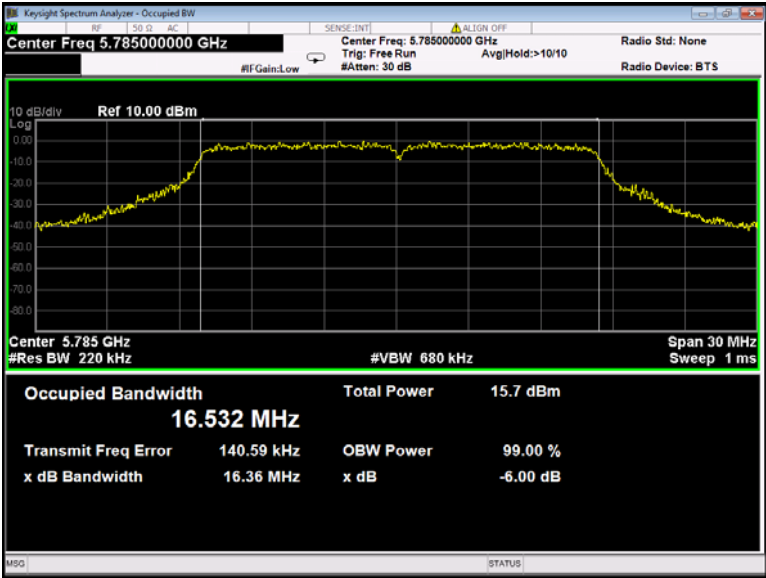
802.11n(HT40) U-NII-1 High channel



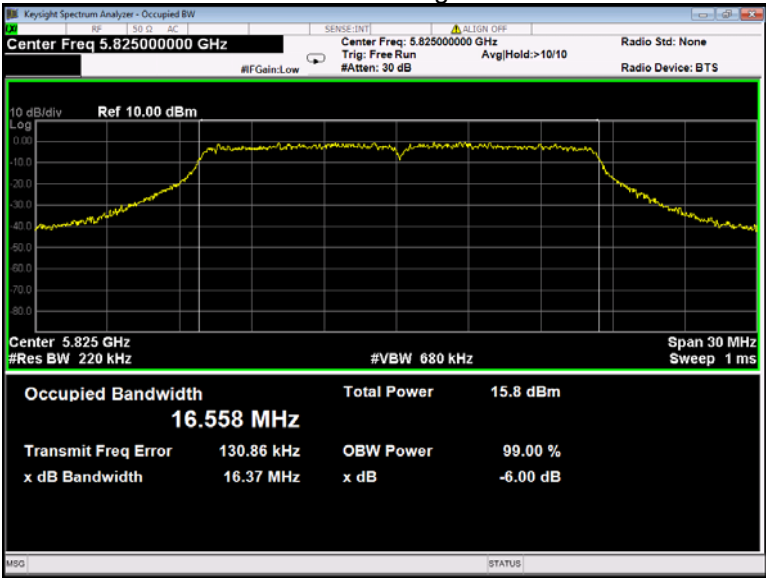
802.11a U-NII-3 Low channel



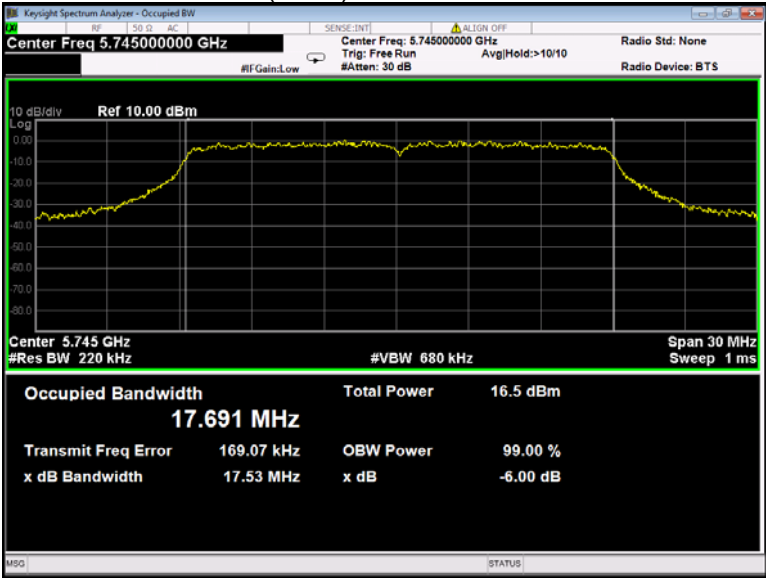
802.11a U-NII-3 Middle channel



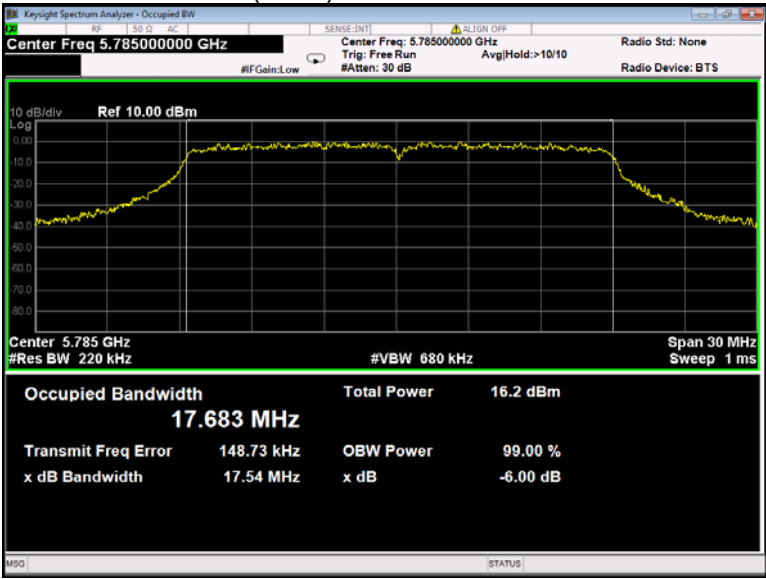
802.11a U-NII-3 High channel



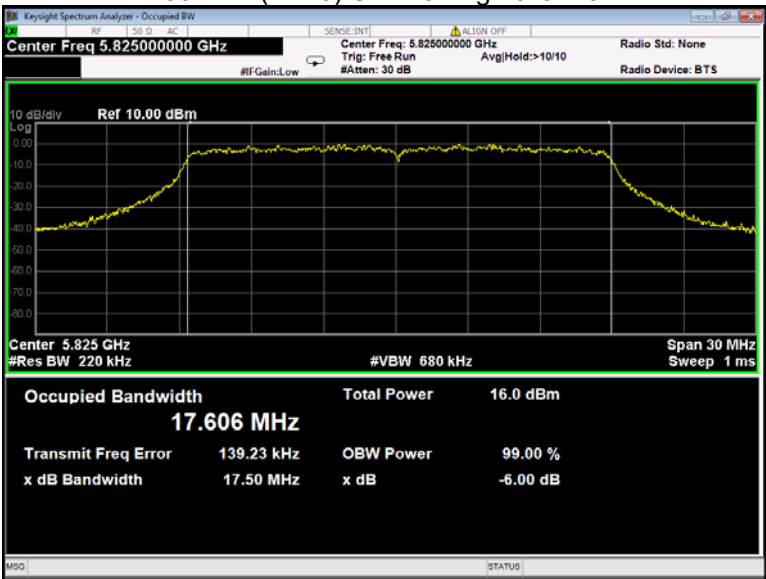
802.11n(HT20) U-NII-3 Low channel



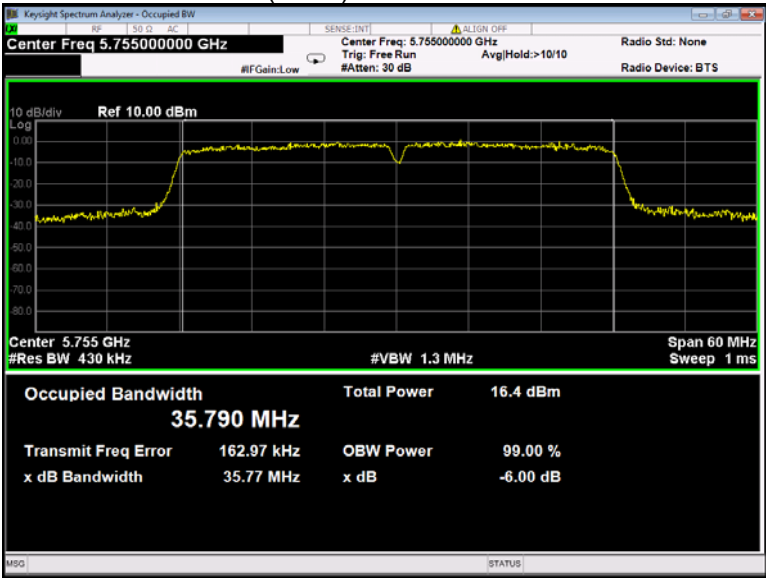
802.11n(HT20) U-NII-3 Middle channel



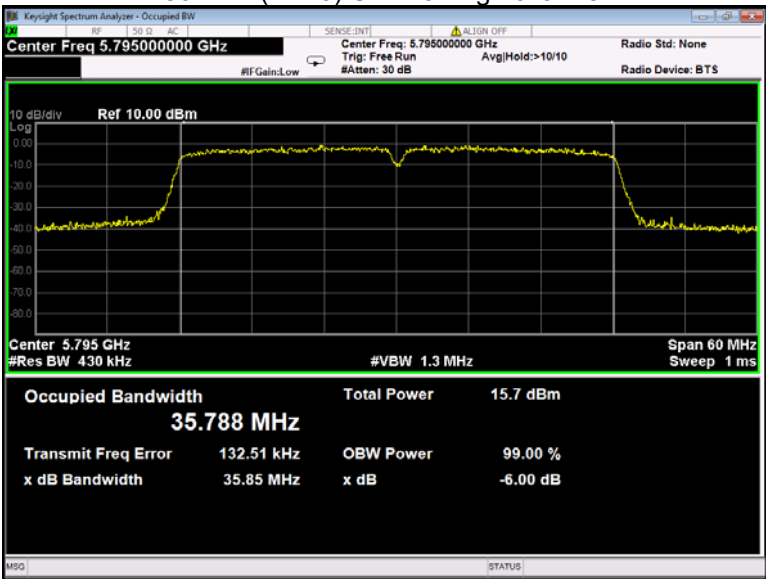
802.11n(HT20) U-NII-3 High channel



802.11n(HT40) U-NII-3 Low channel



802.11n(HT40) U-NII-3 High channel



13 Conducted Output Power

Test Requirement:	FCC 47CFR Part 15 Section 15.407(a)
Test Method:	KDB662911 D01 Multiple Transmitter Output v02r01 KDB789033 D02 General U-NII Test Procedures New Rules v02r01 Section E
Test Limit:	U-NII-1 250mW(24dBm) U-NII-2A 250mW(24dBm) U-NII-2C 250mW(24dBm) U-NII-3 1W(30dBm)
Test Result:	PASS
Remark:	Conducted output power= measurement power+10log(1/x) X is duty cycle=1, so 10log(1/1)=0 Conducted output power= measurement power

13.1 Test Procedure

1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum.
2. Set the spectrum analyzer: RBW = 1 MHz. VBW = 3 MHz. Sweep = auto; Detector Function = Peak, Set the span to fully encompass the DTS bandwidth.
3. Keep the EUT in transmitting at lowest, medium and highest channel individually. Record the max value.

13.2 Test Result

Band	Operation mode	Channel	Measurements (dBm)	Duty Cycle Factor (dB)	Conducted Output Power (dBm)
U-NII-1	802.11a	Low	11.96	0.26	12.22
		Middle	12.75		13.01
		High	13.61		13.87
	802.11n(HT20)	Low	12.10	0.28	12.38
		Middle	12.74		13.02
		High	13.46		13.74
	802.11n(HT40)	Low	12.40	0.56	12.96
		Middle	/		/
		High	13.37		13.93

Band	Operation mode	Channel	Measurements (dBm)	Duty Cycle Factor (dB)	Conducted Output Power (dBm)
U-NII-3	802.11a	Low	15.58	0.26	15.84
		Middle	16.15		16.41
		High	16.35		16.61
	802.11n(HT20)	Low	15.93	0.28	16.21
		Middle	15.66		15.94
		High	15.75		16.03
	802.11n(HT40)	Low	15.94	0.61	16.55
		Middle	/		/
		High	15.77		16.38

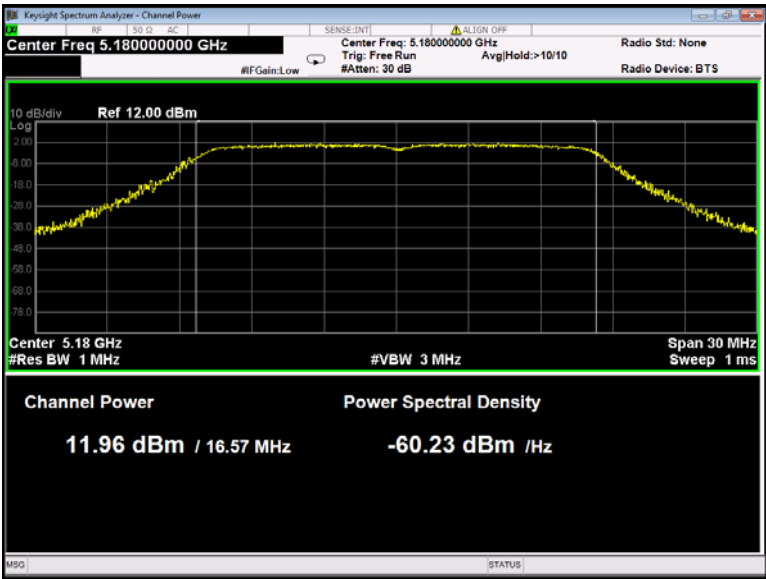
Note:

1. Conducted Output Power = Measurements + Duty Cycle Factor

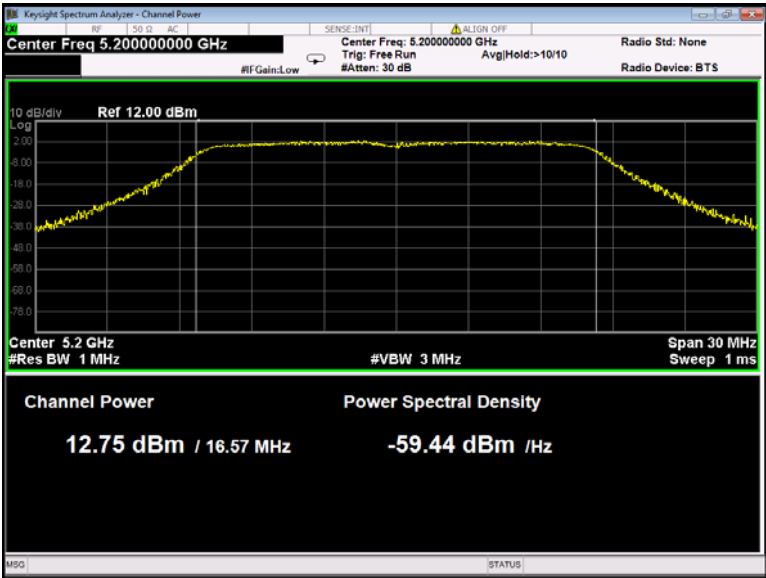
* All transmit signals are completely uncorrelated with each other, Directional gain = G_{ANT} which is less than 6dBi. So the limit does not be reduced.

Test result plots shown as follows:

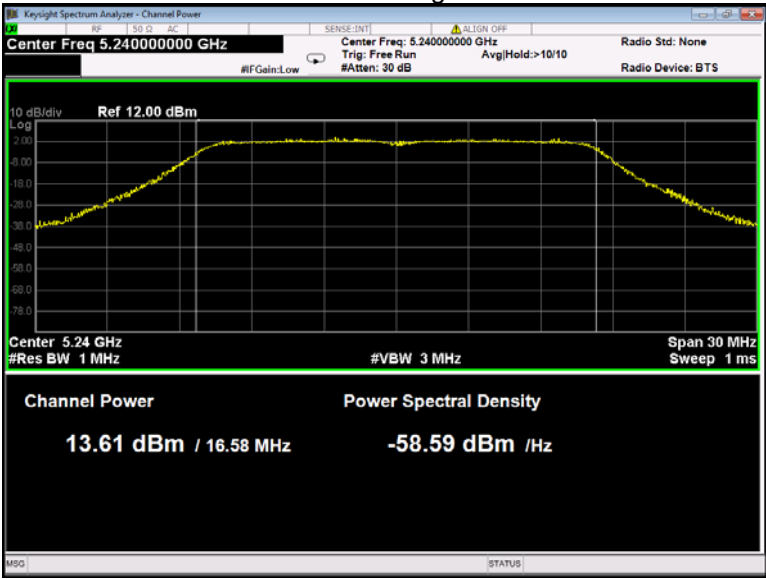
802.11a U-NII-1 Low channel



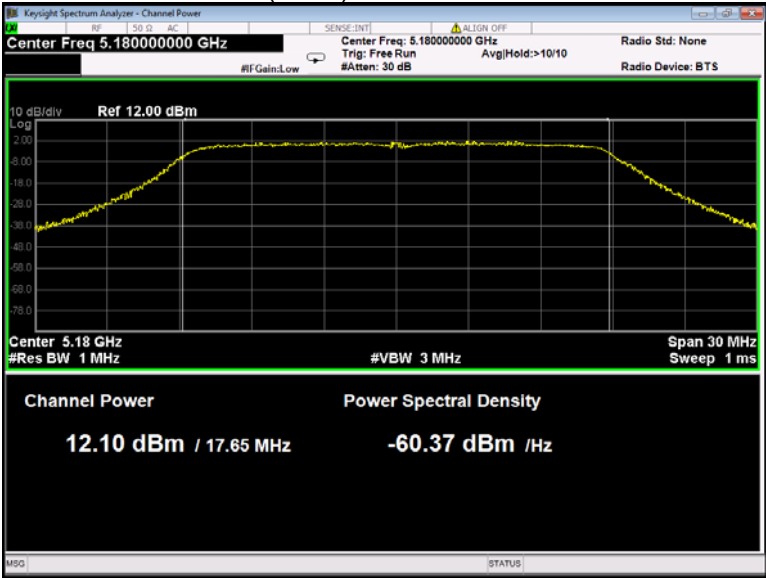
802.11a U-NII-1 Middle channel



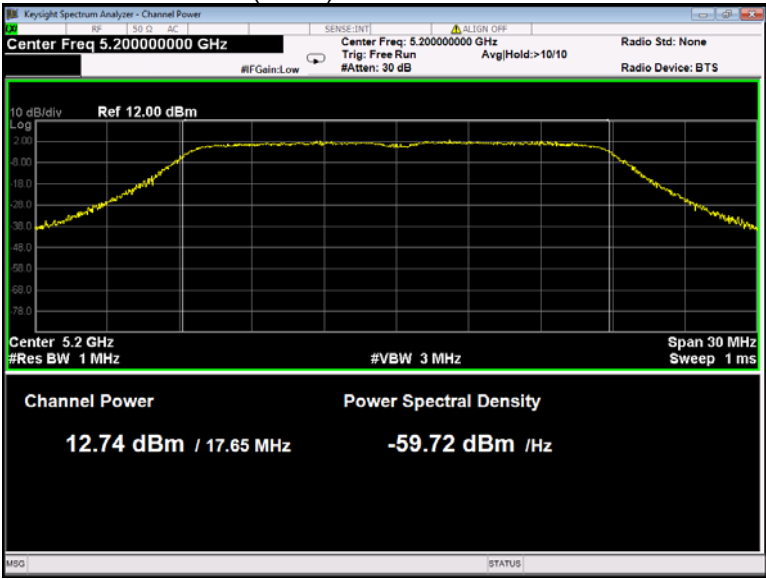
802.11a U-NII-1 High channel



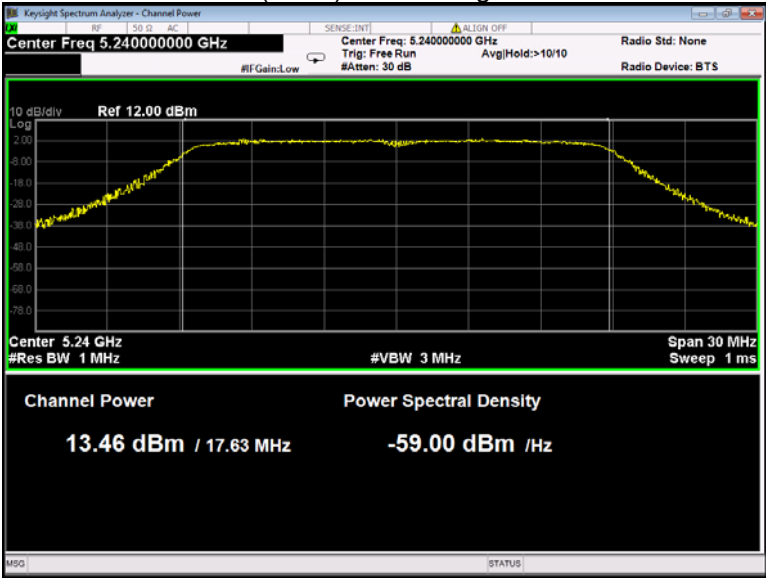
802.11n(HT20) U-NII-1 Low channel



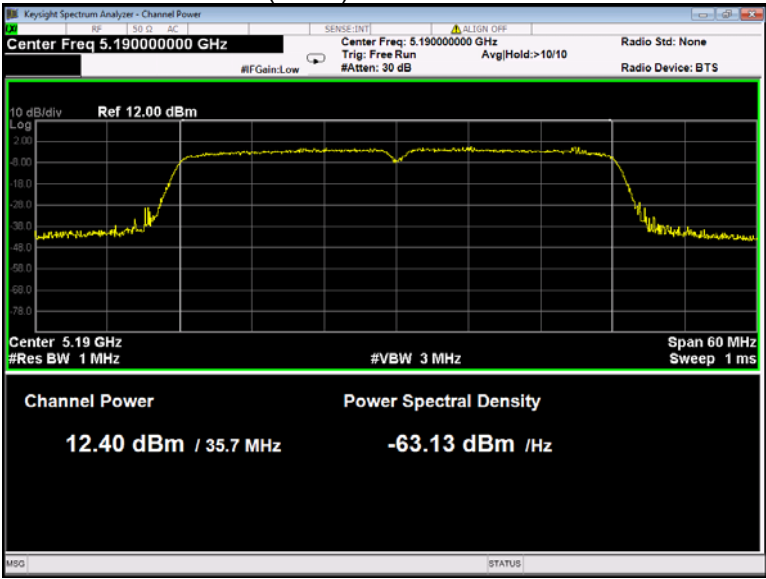
802.11n(HT20) U-NII-1 Middle channel



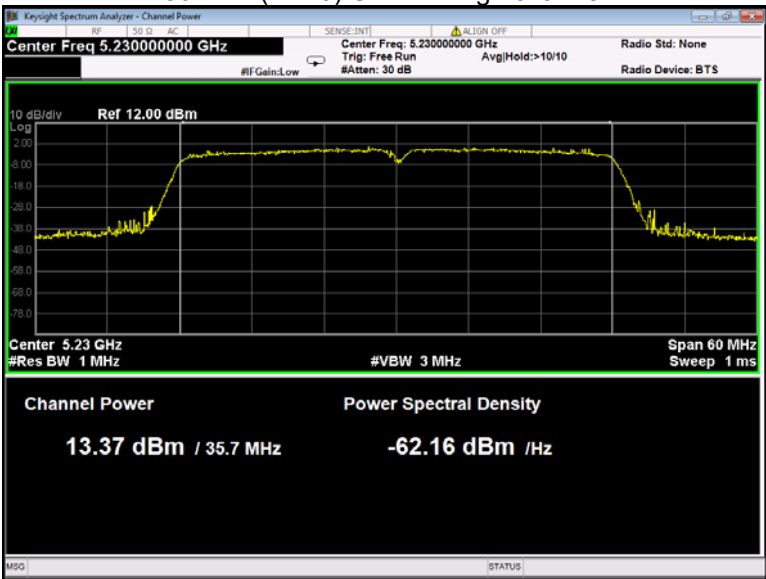
802.11n(HT20) U-NII-1 High channel



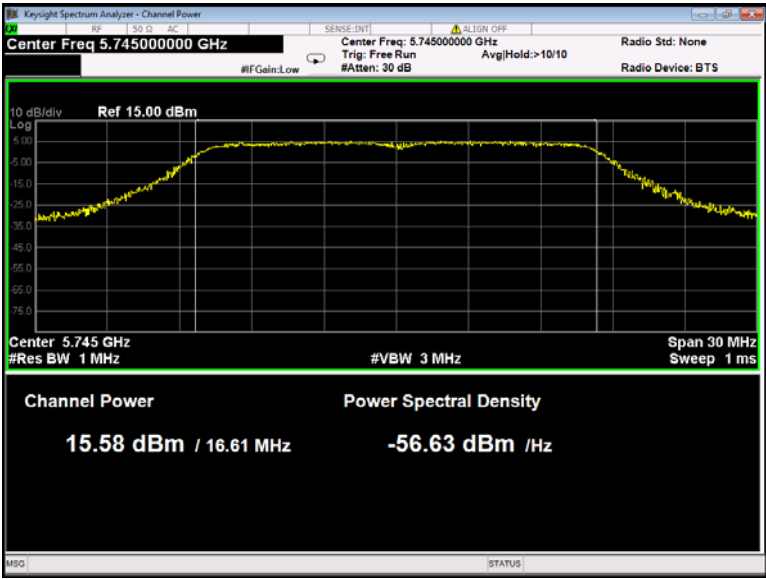
802.11n(HT40) U-NII-1 Low channel



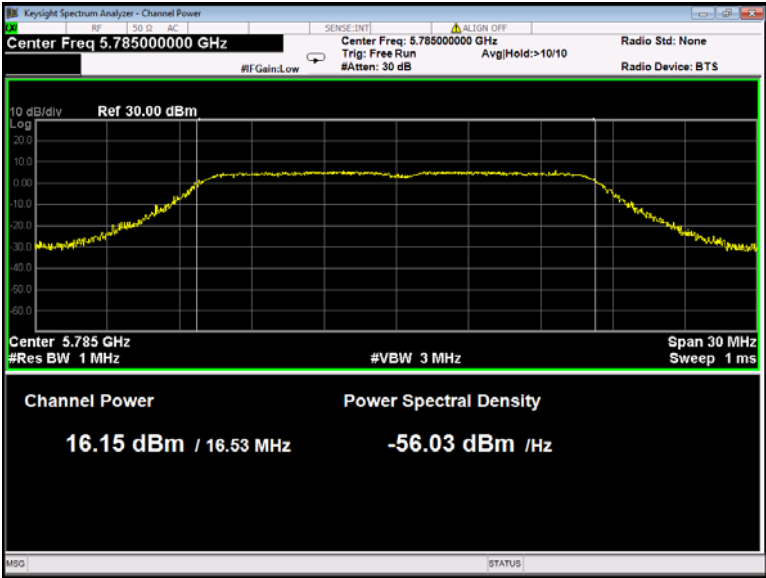
802.11n(HT40) U-NII-1 High channel



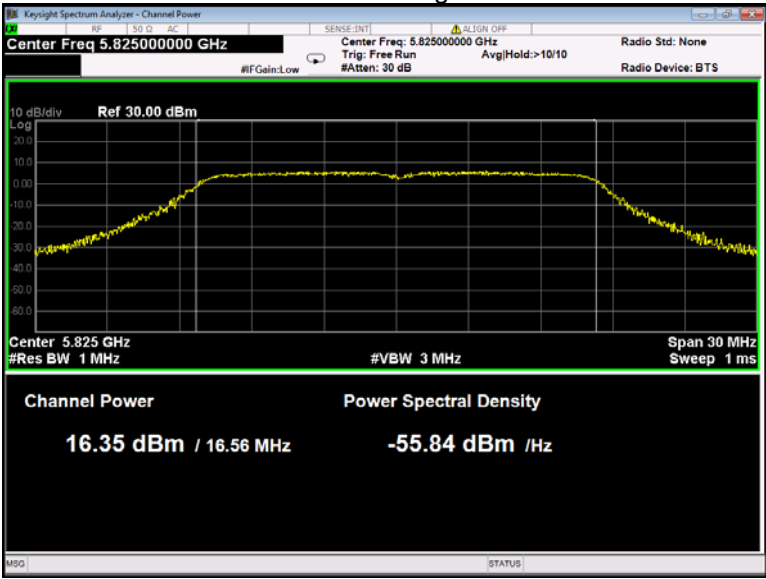
802.11a U-NII-3 Low channel



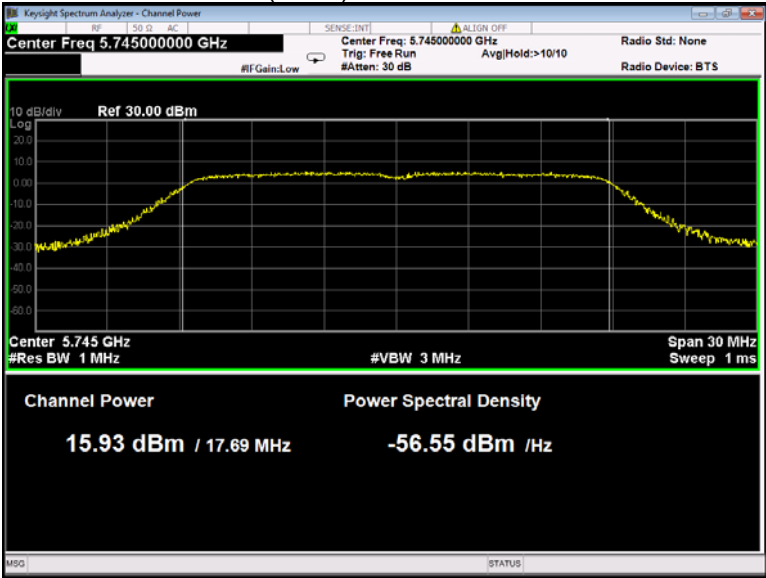
802.11a U-NII-3 Middle channel



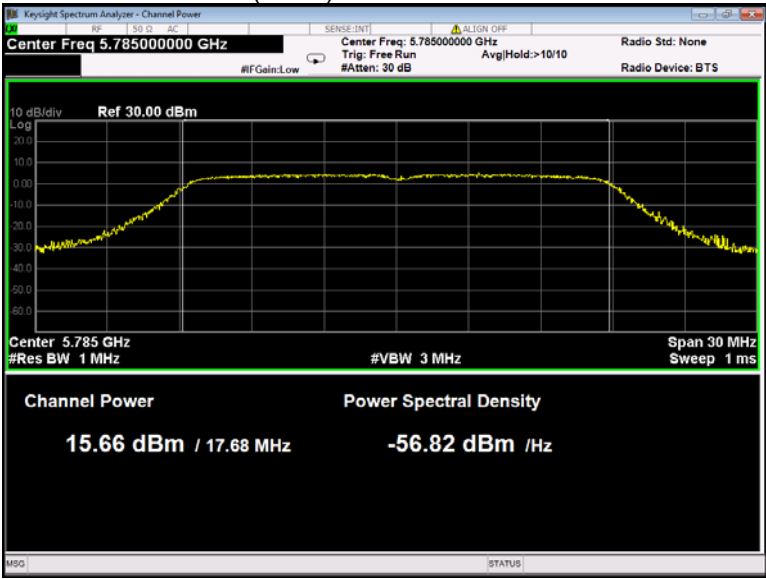
802.11a U-NII-3 High channel



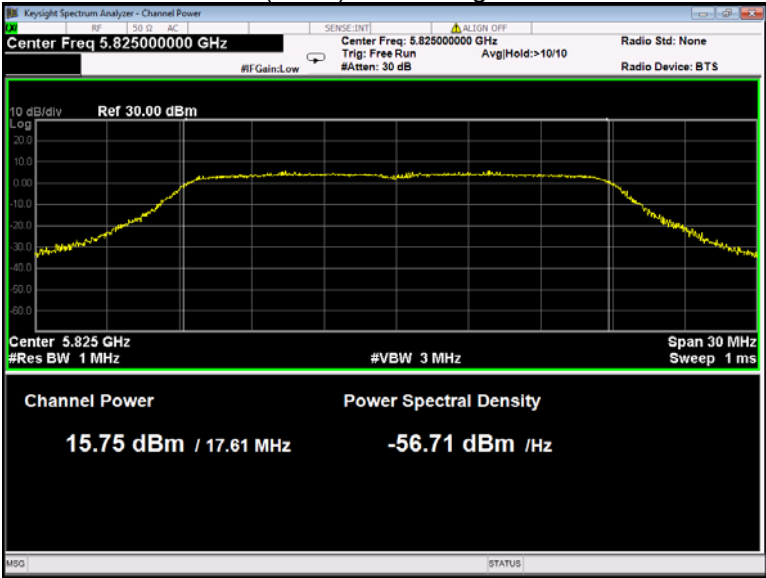
802.11n(HT20) U-NII-3 Low channel



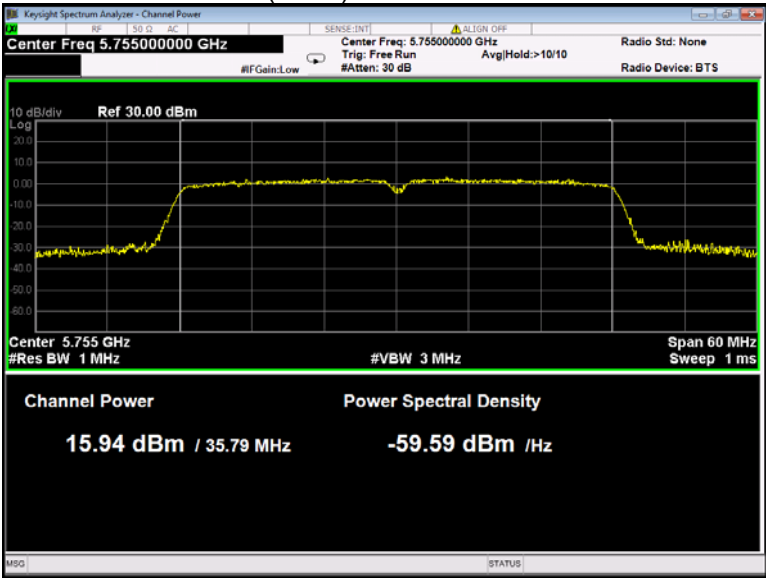
802.11n(HT20) U-NII-3 Middle channel



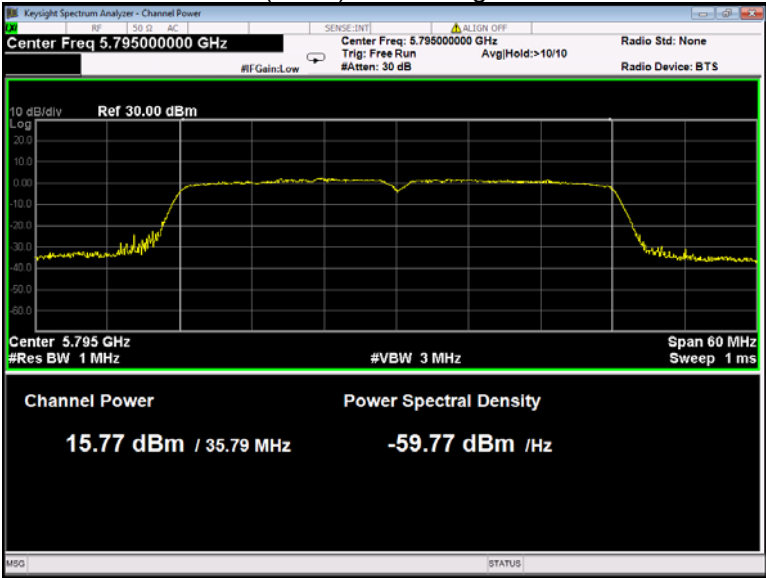
802.11n(HT20) U-NII-3 High channel



802.11n(HT40) U-NII-3 Low channel



802.11n(HT40) U-NII-3 High channel



14 Power Spectral density

Test Requirement:	FCC 47CFR Part 15 Section 15.407(a)
Test Method:	KDB 789033 D02 General U-NII Test Procedures New Rules v02r01
Test Limit:	$\leq 11\text{dBm/MHz}$ for Operation in the U-NII-1(5150MHz-5250MHz, 5250-5350MHz and 5470-5725MHz)of device; $\leq 30\text{dBm/500kHz}$ for Operation in the U-NII-3(5725MHz-5850MHz)of device
Test Result:	PASS

14.1 Test Procedure

1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum.
2. Set the spectrum analyzer:
U-NII-1
RBW = 1MHz, VBW $\geq 3 \times$ RBW Sweep = auto; Detector Function = Peak. Trace = Max hold.
U-NII-3
RBW = 510KHz, VBW $\geq 3 \times$ RBW Sweep = auto; Detector Function = Peak. Trace = Max hold.
3. Allow the trace to stabilize. Use the marker-delta function to determine the separation between the peaks of the adjacent channels. The limit is specified in one of the subparagraphs of this Section
Submit this plot.

14.2 Test Result

Band	Operation mode	Channel	Measurements (dBm/MHz)	Duty Cycle Factor (dB)	Conducted Output Power Spectral Density (dBm/MHz)
U-NII-1	802.11a	Low	2.236	0.26	2.496
		Middle	3.065		3.325
		High	4.430		4.690
	802.11n(HT20)	Low	2.542	0.28	2.822
		Middle	2.054		2.334
		High	2.997		3.277
	802.11n(HT40)	Low	0.044	0.56	0.604
		Middle	/		/
		High	1.198		1.758

Band	Operation mode	Channel	Measurements (dBm/MHz)	Duty Cycle Factor (dB)	Conducted Output Power Spectral Density (dBm/500kHz)
U-NII-3	802.11a	Low	3.387	0.26	3.647
		Middle	2.576		2.836
		High	2.726		2.986
	802.11n(HT20)	Low	3.220	0.28	3.500
		Middle	2.599		2.879
		High	2.544		2.824
	802.11n(HT40)	Low	0.343	0.61	0.953
		Middle	/		/
		High	0.188		0.798

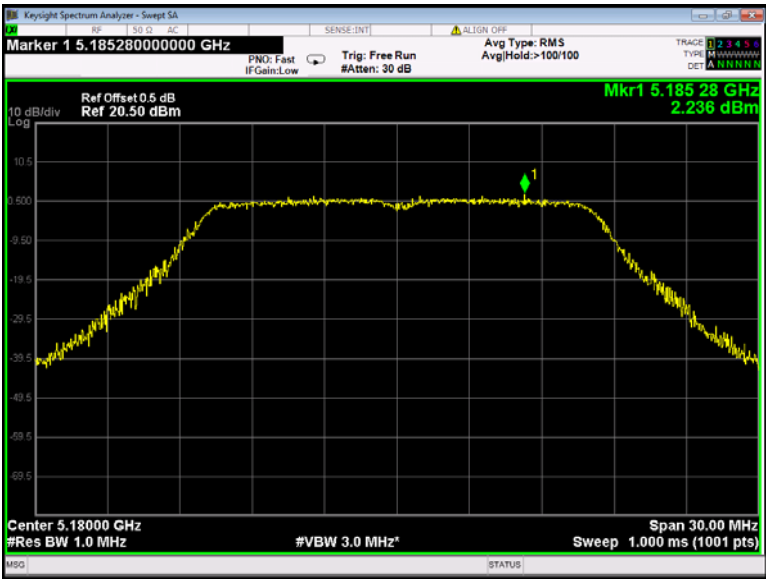
Note:

1. Conducted Output Power Spectral Density = Measurements + Duty Cycle Factor

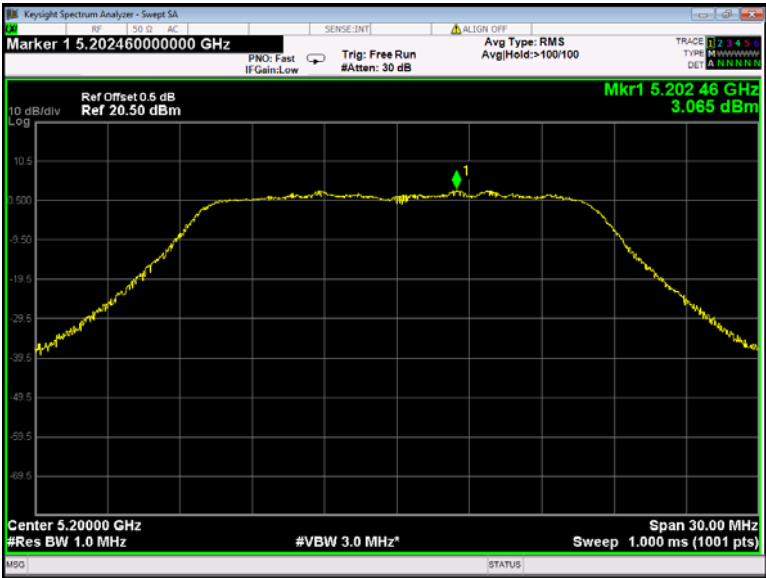
* All transmit signals are completely uncorrelated with each other, Directional gain = G_{ANT} which is less than 6dBi. So the limit does not be reduced.

Test result plots shown as follows:

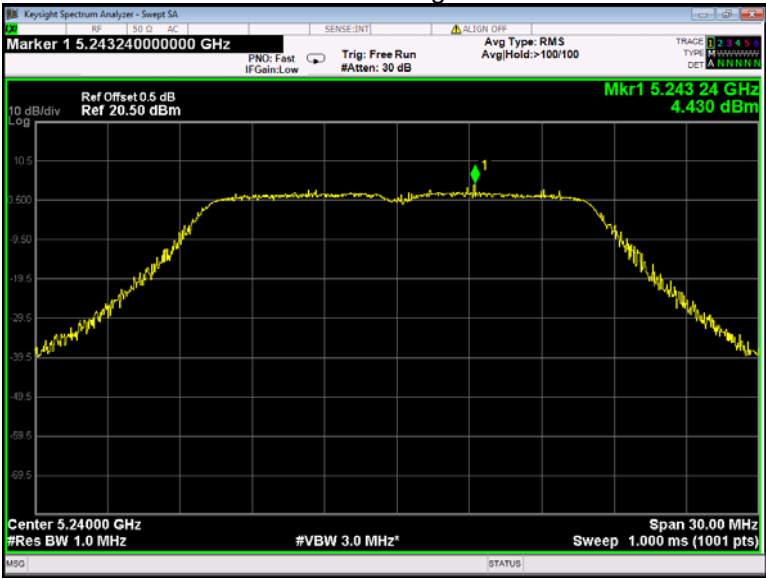
802.11a U-NII-1 Low channel



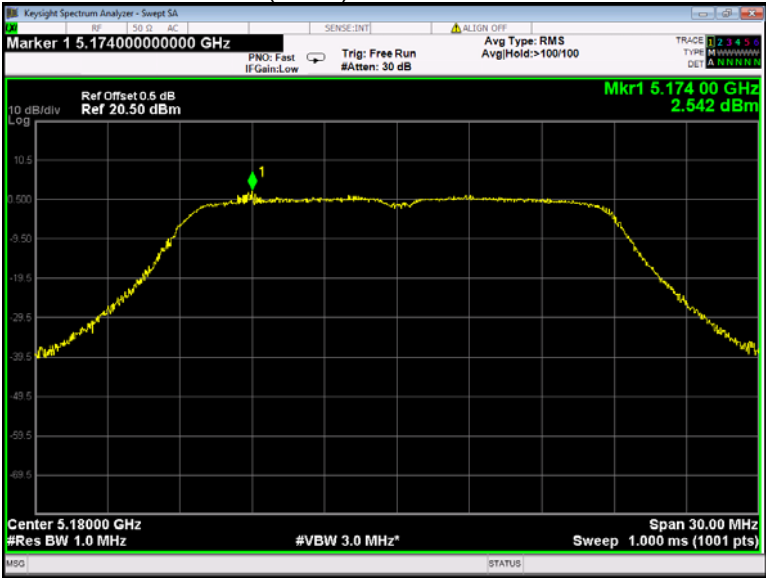
802.11a U-NII-1 Middle channel



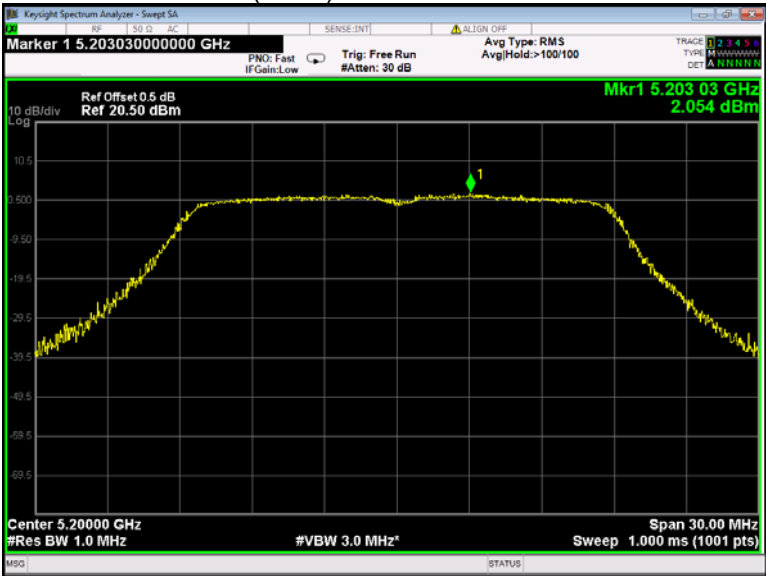
802.11a U-NII-1 High channel



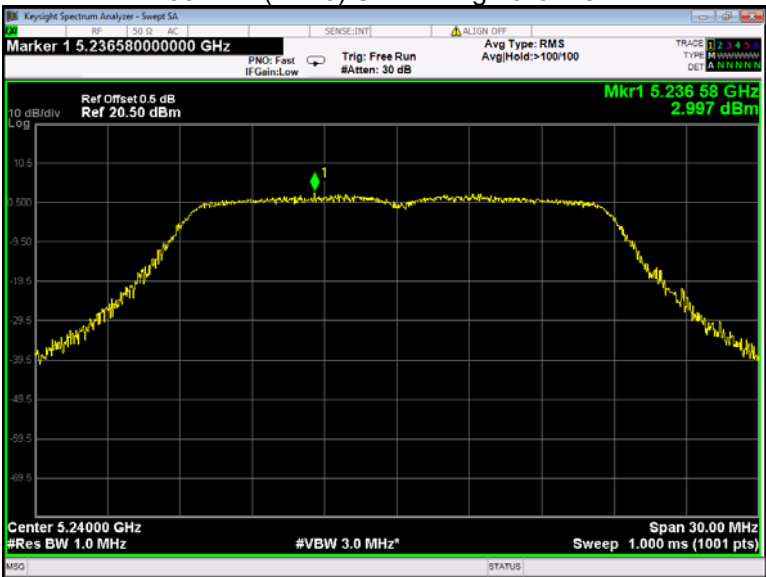
802.11n(HT20) U-NII-1 Low channel



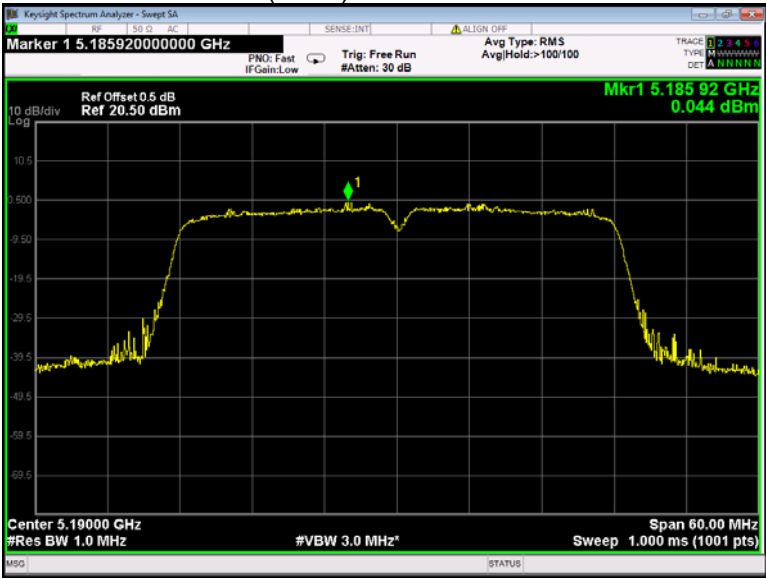
802.11n(HT20) U-NII-1 Middle channel



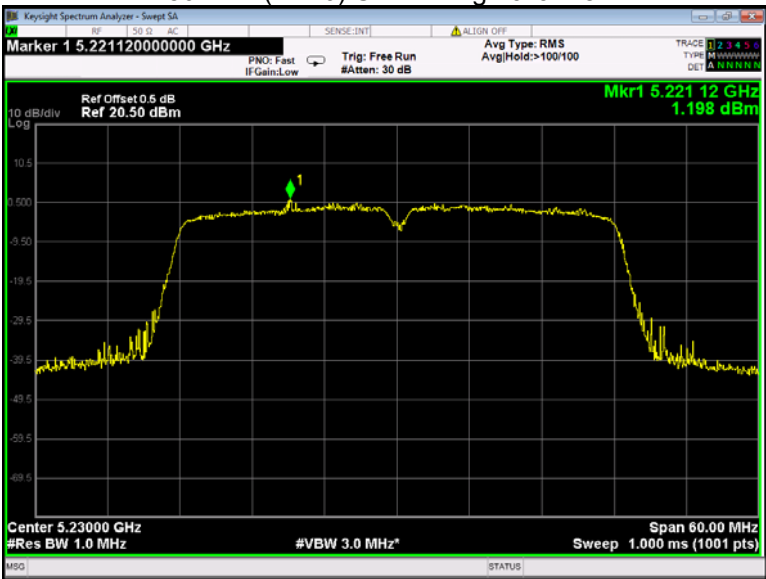
802.11n(HT20) U-NII-1 High channel



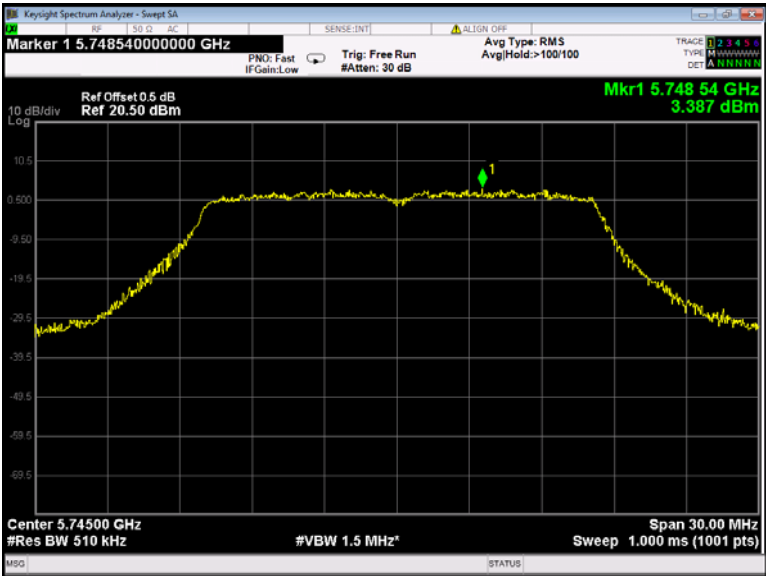
802.11n(HT40) U-NII-1 Low channel



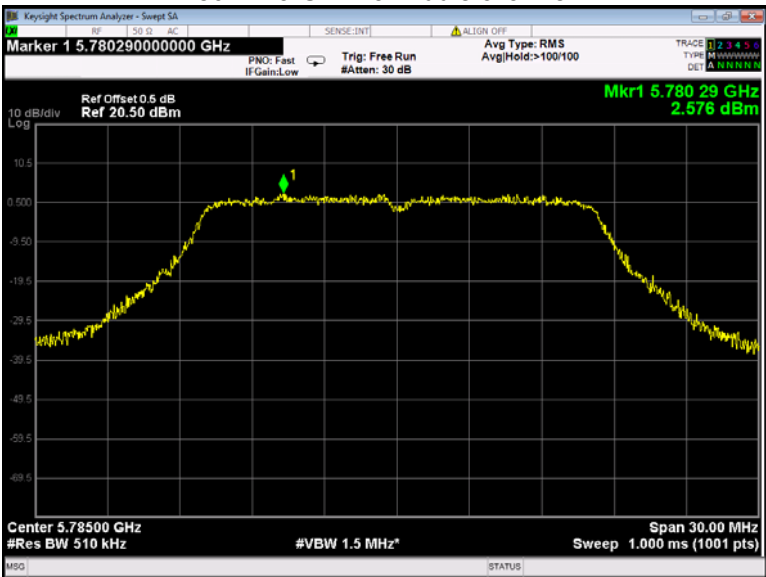
802.11n(HT40) U-NII-1 High channel



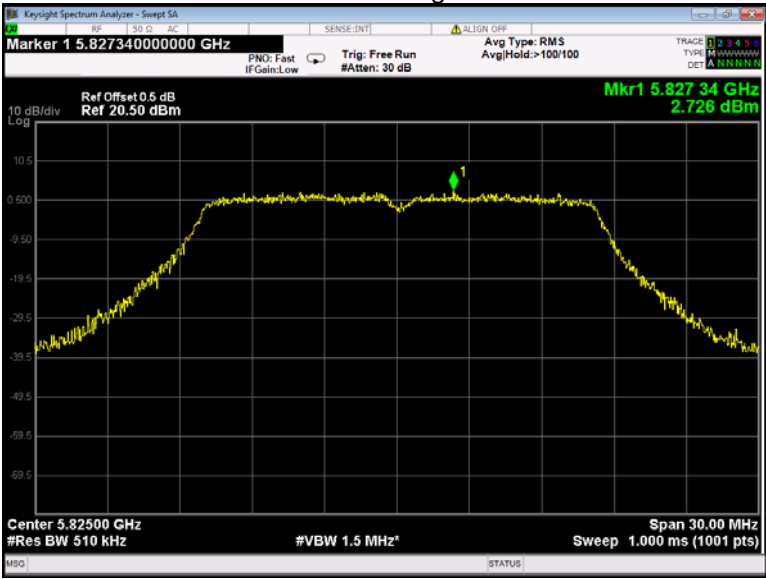
802.11a U-NII-3 Low channel



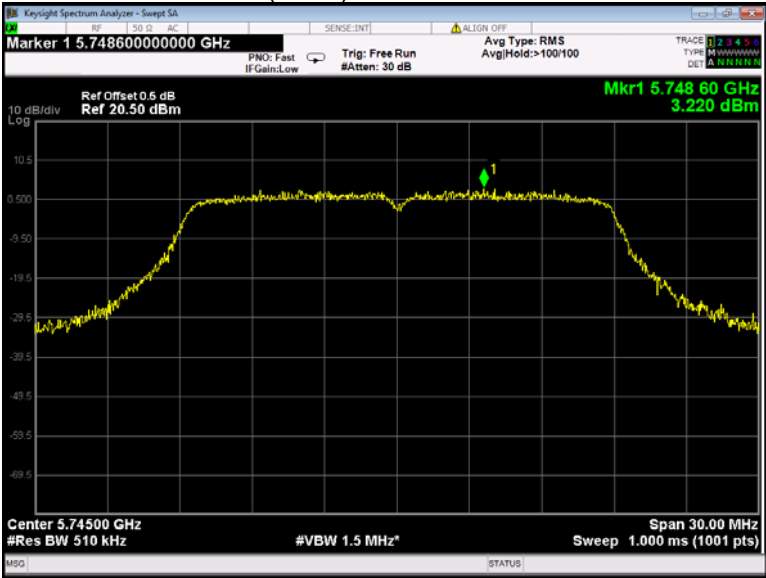
802.11a U-NII-3 Middle channel



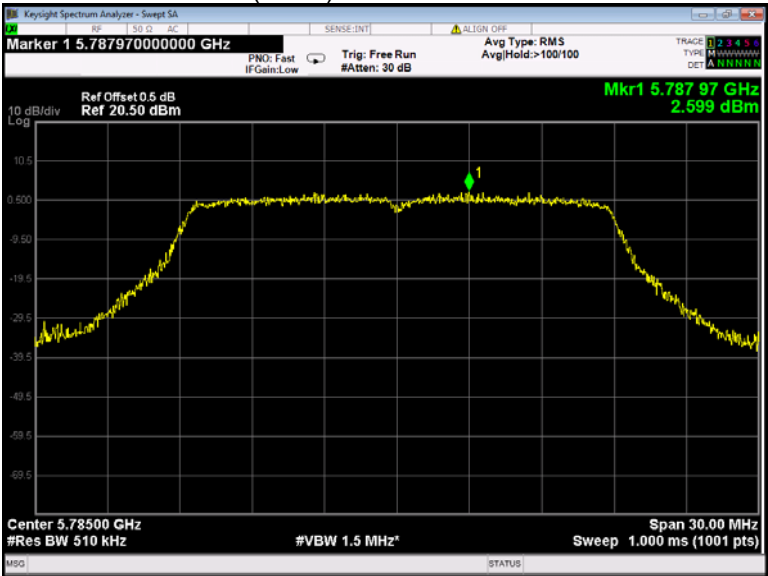
802.11a U-NII-3 High channel



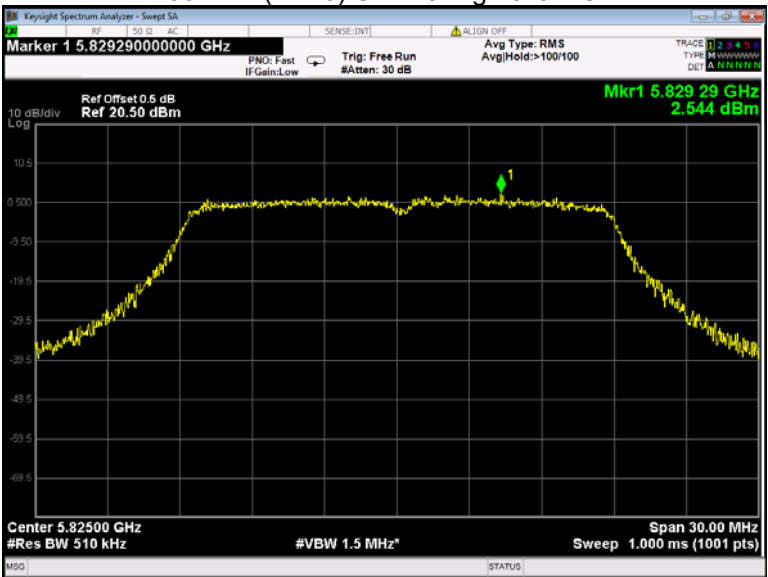
802.11n(HT20) U-NII-3 Low channel



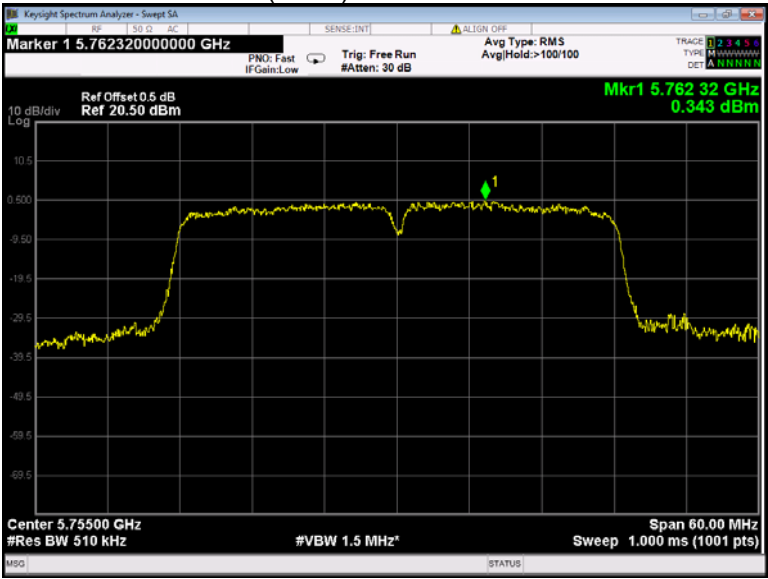
802.11n(HT20) U-NII-3 Middle channel



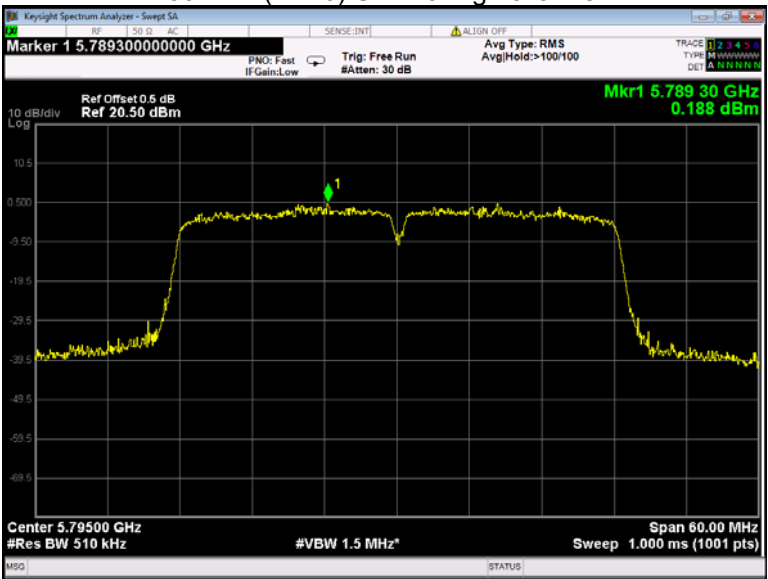
802.11n(HT20) U-NII-3 High channel



802.11n(HT40) U-NII-3 Low channel



802.11n(HT40) U-NII-3 High channel



15 Frequency Stability

Test Requirement:	FCC 47CFR Part 15 Section 15.407(g)
Test Method:	ANSI C63.10:2013
Test Limit:	Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the users manual or 20ppm.
Test Result:	PASS

15.1 Test Procedure

1. The transmitter output (antenna port) was connected to the spectrum analyzer.
EUT have transmitted absence of unmodulation signal and fixed channelise. Set the spectrum analyzer span to view the entire absence of modulation emissions bandwidth. Set RBW = 10 kHz, VBW = 10 kHz with peak detector and maxhold settings. f_c is declaring of channel frequency. Then the frequency error formula is $(f_c - f)/f_c \times 10^6$ ppm and the limit is less than ± 20 ppm. The test extreme voltage is to change the primary supply voltage from 85 to 115 percent of the nominal value.
2. Extreme temperature rule is 0°C~ 50°C.

15.2 Test Result

U-NII-1 Test Frequency:5180MHz				
Temperature (°C)	Power Supply (VAC)	Frequency Error (MHz)	Frequency Error (ppm)	Limit (ppm)
50	120	-0.0047	-7.63	20
45		-0.0010	-1.71	20
30		-0.0060	-9.85	20
20		0.0000	0.00	20
10		0.0000	0.08	20
0		0.0068	11.07	20
20	108	0.0008	1.34	20
20	132	-0.0006	-0.94	20

U-NII-3 Test Frequency:5785MHz				
Temperature (°C)	Power Supply (VAC)	Frequency Error (MHz)	Frequency Error (ppm)	Limit (ppm)
50	120	-0.0082	-13.38	20
45		-0.0005	-0.79	20
30		0.0022	3.62	20
20		0.0000	0.00	20
10		0.0019	3.18	20
0		-0.0042	-6.84	20
20	108	-0.0034	-5.56	20
20	132	-0.0033	-5.42	20

16 Antenna Requirement

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of §15.211, §15.213, §15.217, §15.219, or §15.221. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with §15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

This product has a PCB Antenna fulfil the requirement of this section.

Note: Please refer to EUT photos for more details.

17 RF Exposure

Remark: refer to MPE test report: WTF23D08185189W005.

18 Photographs of test setup and EUT.

Note: Please refer to appendix: Appendix-FRW-Photos.

=====End of Report=====