

TEST REPORT

FCC ID: 2AQ24TRI-3798

Product: Tablet PC

Model No.: TRI-37-98

Additional Model No.: TRI-xx-xx

Trade Mark: TRIPLETT

Report No.: TCT180823E024

Issued Date: Sep. 11, 2018

Issued for:

EZ Net Technology Co., Limited

6F, Weixing High Tech Park, Shiyan, Baoan, Shenzhen, China

Issued By:

Shenzhen Tongce Testing Lab.

**1B/F., Building 1, Yibaolai Industrial Park, Qiaotou, Fuyong, Baoan District,
Shenzhen, Guangdong, China**

TEL: +86-755-27673339

FAX: +86-755-27673332

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Appendix A: Photographs of Test Setup

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1. Test Certification

Product:	Tablet PC
Model No.:	TRI-37-98
Additional Model:	TRI-xx-xx
Trade Mark:	TRIPLETT
Applicant:	EZ Net Technology Co., Limited
Address:	6F, Weixing High Tech Park, Shiyan, Baoan, Shenzhen, China
Manufacturer:	EZ Net Technology Co., Limited
Address:	6F, Weixing High Tech Park, Shiyan, Baoan, Shenzhen, China
Date of Test:	Aug. 24, 2018 – Sep. 10, 2018
Applicable Standards:	FCC CFR Title 47 Part 15 Subpart E Section 15.407: 2016 KDB662911 D01 Multiple Transmitter Output v02r01 KDB789033 D02 General U-NII Test Procedures New Rules v02

The above equipment has been tested by Shenzhen Tongce Testing Lab. and found compliance with the requirements set forth in the technical standards mentioned above. The results of testing in this report apply only to the product/system, which was tested. Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.

Tested By:



Brews Xu

Date:

Sep. 10, 2018

Reviewed By:



Beryl Zhao

Date:

Sep. 11, 2018

Approved By:



Tomsin

Date:

Sep. 11, 2018

2. Test Result Summary

Requirement	CFR 47 Section	Result
Antenna requirement	§15.203	PASS
AC Power Line Conducted Emission	§15.207	PASS
Maximum Conducted Output Power	§15.407(a) §2.1046	PASS
6dB Emission Bandwidth	§15.407(a) §2.1049	PASS
26dB Emission Bandwidth& 99% Occupied Bandwidth	§15.407(a) §2.1049	PASS
Power Spectral Density	§15.407(a)	PASS
Restricted Bands around fundamental frequency	§15.407(a)	PASS
Radiated Emission	§15.407(a) §2.1053	PASS
Frequency Stability	§15.407(g) §2.1055	PASS

Note:

1. PASS: Test item meets the requirement.
2. Fail: Test item does not meet the requirement.
3. N/A: Test case does not apply to the test object.
4. The test result judgment is decided by the limit of test standard.

3. EUT Description

Product:	Tablet PC
Model No.:	TRI-37-98
Additional Model:	TRI-xx-xx
Trade Mark:	TRIPLETT
Hardware Version:	EM_T8811A_V6.0 L7
Software Version:	Android 7.0
Operation Frequency:	Band 1: 5180 MHz-5240 MHz band 2A: 5260 MHz-5320 MHz band 2C: 5500 MHz-5720 MHz band 3: 5745 MHz-5825 MHz
Channel Bandwidth:	802.11a: 20MHz 802.11n: 20MHz, 40MHz 802.11ac: 20MHz, 40MHz
Modulation Technology:	Orthogonal Frequency Division Multiplexing(OFDM)
Modulation Type	256QAM, 64QAM, 16QAM, BPSK, QPSK
Antenna Type:	PIFA Antenna
Antenna Gain:	1.5dBi
Power Supply:	Rechargeable Li-ion Battery DC 3.7V
AC adapter:	Adapter Information: Adapter Model: TRI-WFH-CHARGER Input: AC 100-240V, 50/60Hz, 0.3A Output: DC 5V, 2A
Remark:	All models above are identical in interior structure, electrical circuits and components, and just model names are different for the marketing requirement.

Test Frequency each of channel

Band 1

20MHz		40MHz	
Channel	Frequency	Channel	Frequency
36	5180	38	5190
40	5200	46	5230
48	5240		

Band 2A

20MHz		40MHz	
Channel	Frequency	Channel	Frequency
52	5260	54	5270
60	5300	62	5310
64	5320		

Band 2C

20MHz		40MHz	
Channel	Frequency	Channel	Frequency
100	5500	102	5510
120	5600	118	5590
144	5720	142	5710

Band 3

20MHz		40MHz	
Channel	Frequency	Channel	Frequency
149	5745	151	5755
157	5785	159	5795
165	5825		

Note:

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:

4. Genera Information

4.1. Test environment and mode

Operating Environment:	
Temperature:	25.0 °C
Humidity:	56 % RH
Atmospheric Pressure:	1010 mbar
Test Mode:	
Engineering mode:	Keep the EUT in continuous transmitting by select channel and modulations(The value of duty cycle is 100%)
The sample was placed 0.8m/1.5m for blow/above 1GHz above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages.	

We have verified the construction and function in typical operation. All the test modes were carried out with the EUT in transmitting operation, which was shown in this test report and defined as follows:

Per-scan all kind of data rate in lowest channel, and found the follow list which it was worst case.

Mode	Data rate
802.11a	6 Mbps
802.11n(HT20)	6.5 Mbps
802.11n(HT40)	13.5 Mbps
802.11ac(HT20)	6.5 Mbps
802.11ac(HT40)	13.5 Mbps

Final Test Mode:

Operation mode:	Keep the EUT in continuous transmitting with modulation
-----------------	---

4.2. Description of Support Units

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Equipment	Model No.	Serial No.	FCC ID	Trade Name
/	/	/	/	/

Note:

1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.
3. For conducted measurements (Output Power, Emission Bandwidth, Power Spectral Density, Spurious Emissions), the antenna of EUT is connected to the test equipment via temporary antenna connector, the antenna connector is soldered on the antenna port of EUT, and the temporary antenna connector is listed in the Test Instruments.

5. Facilities and Accreditations

5.1. Facilities

The test facility is recognized, certified, or accredited by the following organizations:

- FCC - Registration No.: 645098

Shenzhen Tongce Testing Lab

The 3m Semi-anechoic chamber has been registered and fully described in a report with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files.

- IC - Registration No.: 10668A-1

The 3m Semi-anechoic chamber of Shenzhen TCT Testing Technology Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing

5.2. Location

Shenzhen Tongce Testing Lab

Address: 1B/F., Building 1, Yibaolai Industrial Park, Qiaotou, Fuyong, Baoan District, Shenzhen, Guangdong, China

TEL: +86-755-27673339

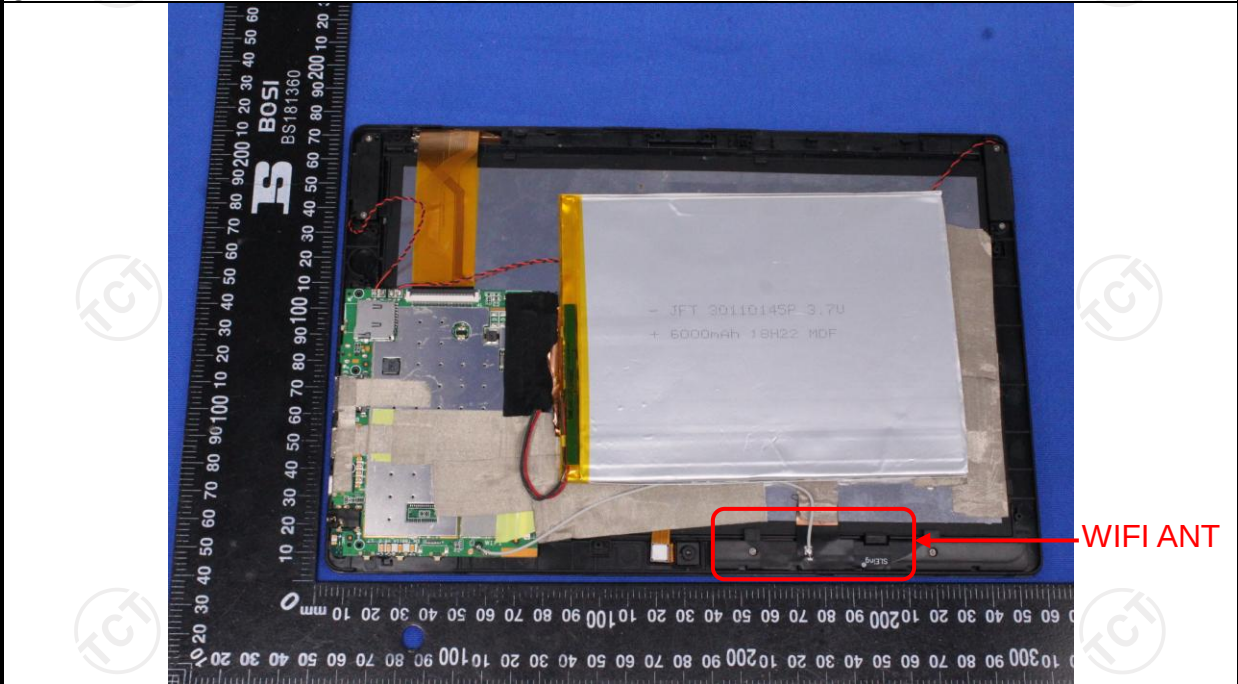
5.3. Measurement Uncertainty

The reported uncertainty of measurement $y \pm U$, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95 %.

No.	Item	MU
1	Conducted Emission	$\pm 2.56\text{dB}$
2	RF power, conducted	$\pm 0.12\text{dB}$
3	Spurious emissions, conducted	$\pm 0.11\text{dB}$
4	All emissions, radiated(<1G)	$\pm 3.92\text{dB}$
5	All emissions, radiated(>1G)	$\pm 4.28\text{dB}$
6	Temperature	$\pm 0.1^{\circ}\text{C}$
7	Humidity	$\pm 1.0\%$

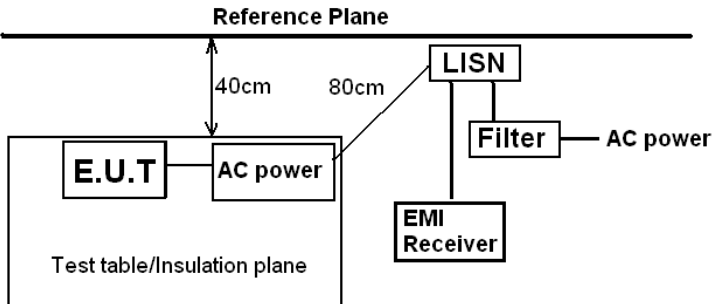
6. Test Results and Measurement Data

6.1. Antenna requirement

Standard requirement:	FCC Part15 C Section 15.203 /247(c)
15.203 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, 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.	
E.U.T Antenna:	
The WIFI antenna is PIFA antenna which permanently attached, and the best case gain of the antenna is 1.5dBi.	
 The image shows the internal components of a device, including the battery, circuit board, and antenna. A red box highlights the WiFi antenna, which is labeled 'WIFI ANT'.	

6.2. Conducted Emission

6.2.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.207														
Test Method:	ANSI C63.10:2013														
Frequency Range:	150 kHz to 30 MHz														
Receiver setup:	RBW=9 kHz, VBW=30 kHz, Sweep time=auto														
Limits:	<table><tr><th rowspan="2">Frequency range (MHz)</th><th colspan="2">Limit (dBuV)</th></tr><tr><th>Quasi-peak</th><th>Average</th></tr><tr><td>0.15-0.5</td><td>66 to 56*</td><td>56 to 46*</td></tr><tr><td>0.5-5</td><td>56</td><td>46</td></tr><tr><td>5-30</td><td>60</td><td>50</td></tr></table>	Frequency range (MHz)	Limit (dBuV)		Quasi-peak	Average	0.15-0.5	66 to 56*	56 to 46*	0.5-5	56	46	5-30	60	50
Frequency range (MHz)	Limit (dBuV)														
	Quasi-peak	Average													
0.15-0.5	66 to 56*	56 to 46*													
0.5-5	56	46													
5-30	60	50													
Test Setup:	Reference Plane  Remark E.U.T: Equipment Under Test LISN: Line Impedance Stabilization Network Test table height=0.8m														
Test Mode:	Tx Mode														
Test Procedure:	1. The E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm/50uH coupling impedance for the measuring equipment. 2. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs). 3. Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10: 2013 on conducted measurement.														
Test Result:	PASS														

6.2.2. Test Instruments

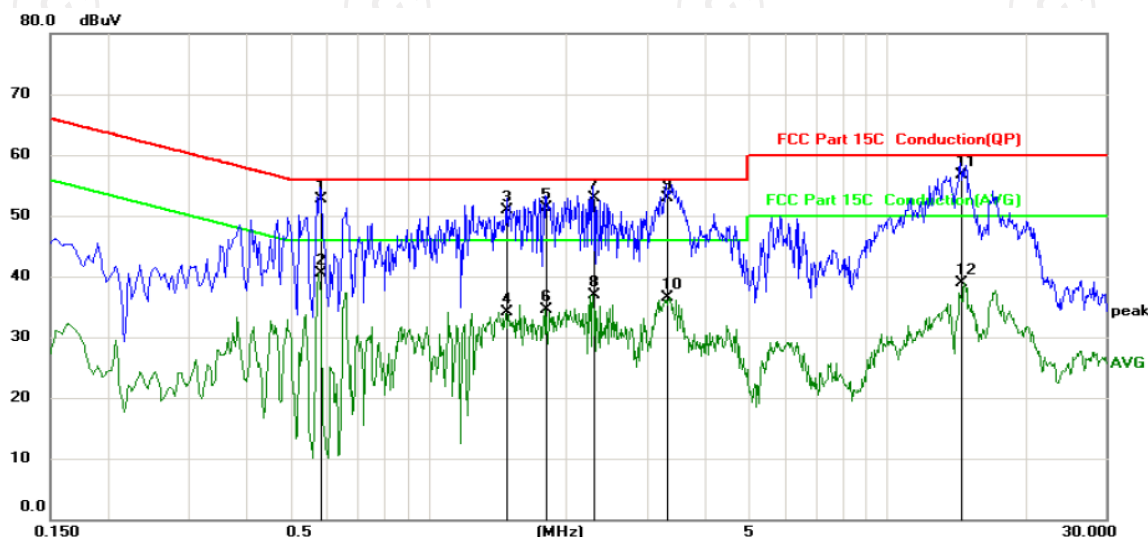
Conducted Emission Shielding Room Test Site (843)				
Equipment	Manufacturer	Model	Serial Number	Calibration Due
Test Receiver	R&S	ESPI	101401	Sep. 27, 2018
LISN	Schwarzbeck	NSLK 8126	8126453	Sep. 27, 2018
Coax cable (9KHz-30MHz)	TCT	CE-05	N/A	Sep. 27, 2018
EMI Test Software	Shurple Technology	EZ-EMC	N/A	N/A

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

6.2.3. Test data

Please refer to following diagram for individual

Conducted Emission on Line Terminal of the power line (150 kHz to 30MHz)



Site: Phase: **L1** Temperature: 25
Limit: FCC Part 15C Conduction(QP) Power: AC 120V/60Hz Humidity: 55 %

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.5819	42.63	10.13	52.76	56.00	-3.24	QP	
2		0.5819	30.34	10.13	40.47	46.00	-5.53	AVG	
3		1.4864	40.86	10.12	50.98	56.00	-5.02	QP	
4		1.4864	24.01	10.12	34.13	46.00	-11.87	AVG	
5		1.8014	41.20	10.12	51.32	56.00	-4.68	QP	
6		1.8014	24.40	10.12	34.52	46.00	-11.48	AVG	
7		2.2919	42.80	10.12	52.92	56.00	-3.08	QP	
8		2.2919	26.73	10.12	36.85	46.00	-9.15	AVG	
9	*	3.3045	42.80	10.13	52.93	56.00	-3.07	QP	
10		3.3045	26.36	10.13	36.49	46.00	-9.51	AVG	
11		14.4690	46.50	10.17	56.67	60.00	-3.33	QP	
12		14.4690	28.68	10.17	38.85	50.00	-11.15	AVG	

Note:

Freq. = Emission frequency in MHz

Reading level (dBμV) = Receiver reading

Corr. Factor (dB) = Antenna factor + Cable loss

Measurement (dBμV) = Reading level (dBμV) + Corr. Factor (dB)

Limit (dBμV) = Limit stated in standard

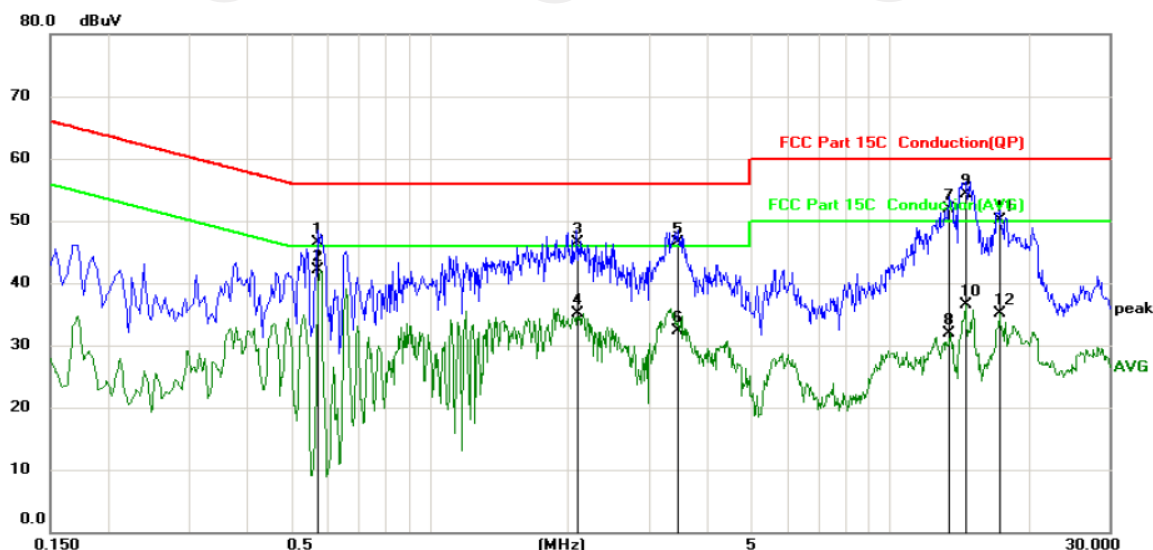
Margin (dB) = Measurement (dBμV) – Limits (dBμV)

Q.P. =Quasi-Peak

AVG =average

* is meaning the worst frequency has been tested in the frequency range 150 kHz to 30MHz

Conducted Emission on Neutral Terminal of the power line (150 kHz to 30MHz)



Site: Phase: **N** Temperature: 25
 Limit: FCC Part 15C Conduction(QP) Power: AC 120V/60Hz Humidity: 55 %

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.5730	36.41	10.13	46.54	56.00	-9.46	QP	
2	*	0.5730	32.04	10.13	42.17	46.00	-3.83	AVG	
3		2.0985	36.41	10.12	46.53	56.00	-9.47	QP	
4		2.0985	24.90	10.12	35.02	46.00	-10.98	AVG	
5		3.4665	36.40	10.13	46.53	56.00	-9.47	QP	
6		3.4665	22.12	10.13	32.25	46.00	-13.75	AVG	
7		13.4340	41.77	10.17	51.94	60.00	-8.06	QP	
8		13.4340	21.68	10.17	31.85	50.00	-18.15	AVG	
9		14.6310	44.21	10.17	54.38	60.00	-5.62	QP	
10		14.6310	26.24	10.17	36.41	50.00	-13.59	AVG	
11		17.3085	40.00	10.19	50.19	60.00	-9.81	QP	
12		17.3085	24.86	10.19	35.05	50.00	-14.95	AVG	

Note:

Freq. = Emission frequency in MHz

Reading level (dBμV) = Receiver reading

Corr. Factor (dB) = attenuator factor + Cable loss

Measurement (dBμV) = Reading level (dBμV) + Corr. Factor (dB)

Limit (dBμV) = Limit stated in standard

Margin (dB) = Measurement (dBμV) – Limits (dBμV)

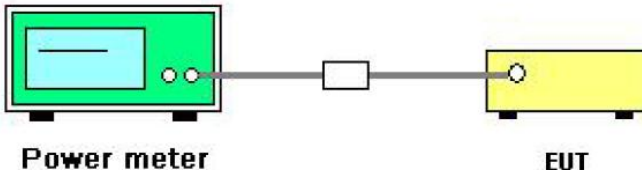
Q.P. =Quasi-Peak

AVG =average

* is meaning the worst frequency has been tested in the frequency range 150 kHz to 30MHz.

6.3. Maximum Conducted Output Power

6.3.1. Test Specification

Test Requirement:	FCC Part15 E Section 15.407(a)& Part 2 J Section 2.1046										
Test Method:	KDB662911 D01 Multiple Transmitter Output v02r01 KDB789033 D02 General UNII Test Procedures New Rules v02 Section E										
Limit:	<table> <tr> <th>Frequency Band (MHz)</th><th>Limit</th></tr> <tr> <td>5150 - 5250</td><td>24dBm(250mW) for client device</td></tr> <tr> <td>5250 - 5350</td><td>24dBm(250mW)</td></tr> <tr> <td>5470 - 5725</td><td>24dBm(250mW)</td></tr> <tr> <td>5725 - 5850</td><td>30dBm(1W)</td></tr> </table>	Frequency Band (MHz)	Limit	5150 - 5250	24dBm(250mW) for client device	5250 - 5350	24dBm(250mW)	5470 - 5725	24dBm(250mW)	5725 - 5850	30dBm(1W)
Frequency Band (MHz)	Limit										
5150 - 5250	24dBm(250mW) for client device										
5250 - 5350	24dBm(250mW)										
5470 - 5725	24dBm(250mW)										
5725 - 5850	30dBm(1W)										
Test Setup:	 The diagram illustrates the test setup. On the left is a green box labeled 'Power meter'. A cable connects it to a small white box (attenuator), which is then connected to a yellow box labeled 'EUT' (Equipment Under Test).										
Test Mode:	Transmitting mode with modulation										
Test Procedure:	1. The testing follows the Measurement Procedure of KDB789033 D02 General UNII Test Procedures New Rules v02 Section E, 3, a 2. The RF output of EUT was connected to the power meter by RF cable and attenuator. The path loss was compensated to the results for each measurement. 3. Set to the maximum power setting and enable the EUT transmit continuously. 5. Measure the conducted output power and record the results in the test report.										
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										

6.3.2. Test Instruments

RF Test Room				
Equipment	Manufacturer	Model	Serial Number	Calibration Due
Spectrum Analyzer	Agilent	N9020A	MY49100060	Sep. 27, 2018
Power Meter	Agilent	N1911a	MY45101557	Sep. 27, 2018
Power Sensor	Agilent	N1922-A	MY44124432	Sep. 27, 2018
RF Cable (9KHz-40GHz)	TCT	RE-03	N/A	Sep. 27, 2018
Antenna Connector	TCT	RFC-03	N/A	Sep. 27, 2018

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

6.3.3. Test Data

Configuration Band 1 (5150 - 5250 MHz)				
Mode	Test channel	Maximum Conducted (Average) Output Power (dBm)	FCC Limit (dBm)	Result
11a	CH36	6.38	24	PASS
11a	CH40	6.09	24	PASS
11a	CH48	5.99	24	PASS
11n(HT20)	CH36	6.50	24	PASS
11n(HT20)	CH40	6.39	24	PASS
11n(HT20)	CH48	6.06	24	PASS
11n(HT40)	CH38	6.50	24	PASS
11n(HT40)	CH46	6.23	24	PASS
11ac(HT20)	CH36	6.43	24	PASS
11ac(HT20)	CH40	6.37	24	PASS
11ac(HT20)	CH48	5.62	24	PASS
11ac(HT40)	CH38	6.36	24	PASS
11ac(HT40)	CH46	6.34	24	PASS

Configuration Band 2A (5250 - 5350 MHz)

Mode	Test channel	Maximum Conducted (Average) Output Power (dBm)	FCC Limit (dBm)	Result
11a	CH52	5.75	24	PASS
11a	CH60	5.80	24	PASS
11a	CH64	6.09	24	PASS
11n(HT20)	CH52	6.00	24	PASS
11n(HT20)	CH60	5.82	24	PASS
11n(HT20)	CH64	6.04	24	PASS
11n(HT40)	CH54	6.26	24	PASS
11n(HT40)	CH62	6.13	24	PASS
11ac(HT20)	CH52	5.11	24	PASS
11ac(HT20)	CH60	5.50	24	PASS
11ac(HT20)	CH64	6.01	24	PASS
11ac(HT40)	CH54	6.11	24	PASS
11ac(HT40)	CH62	6.09	24	PASS

Configuration Band 2C (5470 - 5750 MHz)

Mode	Test channel	Maximum Conducted (Average) Output Power (dBm)	FCC Limit (dBm)	Result
11a	CH100	6.02	24	PASS
11a	CH120	6.03	24	PASS
11a	CH144	6.14	24	PASS
11n(HT20)	CH100	5.85	24	PASS
11n(HT20)	CH120	5.95	24	PASS
11n(HT20)	CH144	6.17	24	PASS
11n(HT40)	CH102	6.09	24	PASS
11n(HT40)	CH118	6.03	24	PASS
11n(HT40)	CH142	6.08	24	PASS
11ac(HT20)	CH100	5.91	24	PASS
11ac(HT20)	CH120	5.56	24	PASS
11ac(HT20)	CH144	5.59	24	PASS
11ac(HT40)	CH102	5.85	24	PASS
11ac(HT40)	CH118	6.08	24	PASS
11ac(HT40)	CH142	6.34	24	PASS

Configuration Band 3 (5725 - 5850 MHz)

Mode	Test channel	Maximum Conducted (Average) Output Power (dBm)	FCC Limit (dBm)	Result
11a	CH149	5.73	30	PASS
11a	CH157	5.95	30	PASS
11a	CH165	6.04	30	PASS
11n(HT20)	CH149	6.11	30	PASS
11n(HT20)	CH157	5.93	30	PASS
11n(HT20)	CH165	5.95	30	PASS
11n(HT40)	CH151	6.24	30	PASS
11n(HT40)	CH159	6.12	30	PASS
11ac(HT20)	CH149	5.84	30	PASS
11ac(HT20)	CH157	5.37	30	PASS
11ac(HT20)	CH165	5.50	30	PASS
11ac(HT40)	CH151	6.13	30	PASS
11ac(HT40)	CH159	6.06	30	PASS

6.4. 6dB Emission Bandwidth

6.4.1. Test Specification

Test Requirement:	FCC CFR47 Part 15 Section 15.407(e)& Part 2 J Section 2.1049
Test Method:	KDB662911 D01 Multiple Transmitter Output v02r01 KDB789033 D02 General UNII Test Procedures New Rules v02 Section C
Limit:	>500kHz
Test Setup:	 Spectrum Analyzer EUT
Test Mode:	Transmitting mode with modulation
Test Procedure:	1. KDB789033 D02 General UNII Test Procedures New Rules v02 Section C 2. Set to the maximum power setting and enable the EUT transmit continuously. 3. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. Set the Video bandwidth (VBW) = 300 kHz. In order to make an accurate measurement. The 6dB bandwidth must be greater than 500 kHz. 4. Measure and record the results in the test report.
Test Result:	PASS

6.4.2. Test Instruments

RF Test Room				
Equipment	Manufacturer	Model	Serial Number	Calibration Due
Spectrum Analyzer	Agilent	N9020A	MY49100060	Sep. 27, 2018
RF Cable (9KHz-40GHz)	TCT	RE-03	N/A	Sep. 27, 2018
Antenna Connector	TCT	RFC-03	N/A	Sep. 27, 2018

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

6.4.3. Test data

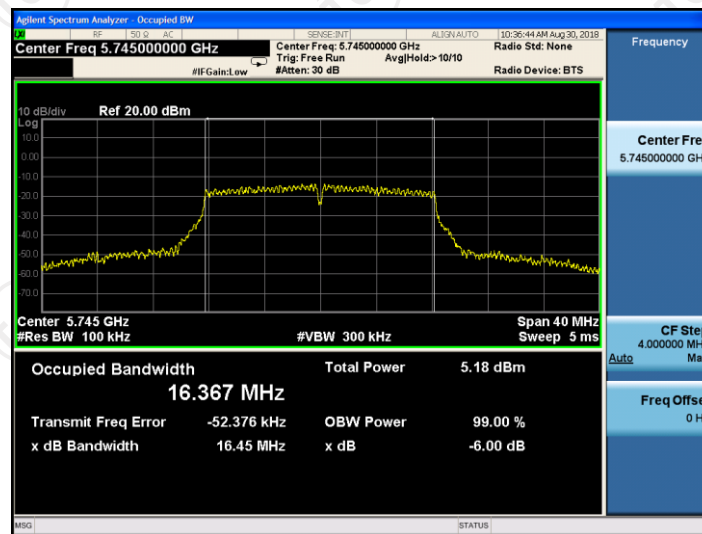
Band 3 (5725 - 5850 MHz)					
Mode	Test channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)	Result
11a	CH149	5745	16.37	0.5	PASS
11a	CH157	5785	16.38	0.5	PASS
11a	CH165	5825	16.41	0.5	PASS
11n(HT20)	CH149	5745	17.59	0.5	PASS
11n(HT20)	CH157	5785	17.60	0.5	PASS
11n(HT20)	CH165	5825	17.59	0.5	PASS
11n(HT40)	CH151	5755	35.93	0.5	PASS
11n(HT40)	CH159	5795	35.96	0.5	PASS
11ac(HT20)	CH149	5745	17.56	0.5	PASS
11ac(HT20)	CH157	5785	17.58	0.5	PASS
11ac(HT20)	CH165	5825	17.60	0.5	PASS
11ac(HT40)	CH151	5755	35.92	0.5	PASS
11ac(HT40)	CH159	5795	35.97	0.5	PASS

Test plots as follows:

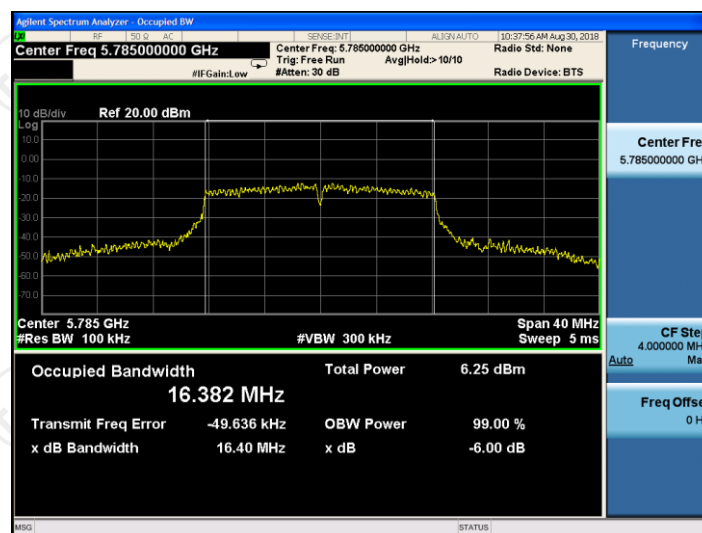
Band 3 (5725 – 5850 MHz)

11a

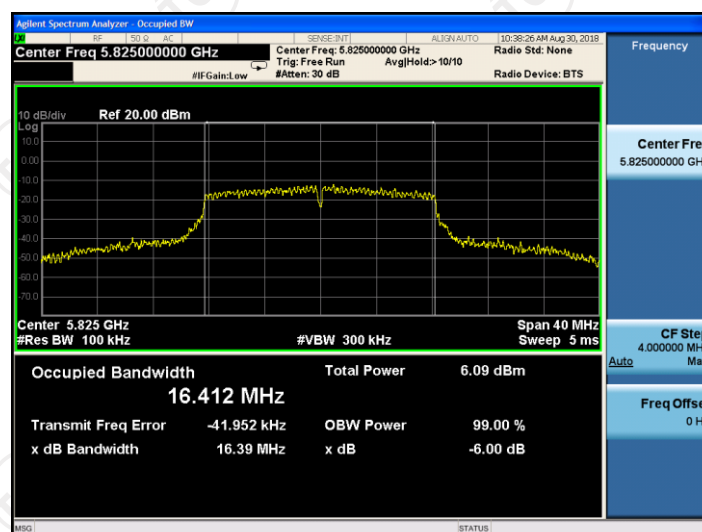
CH149



CH157

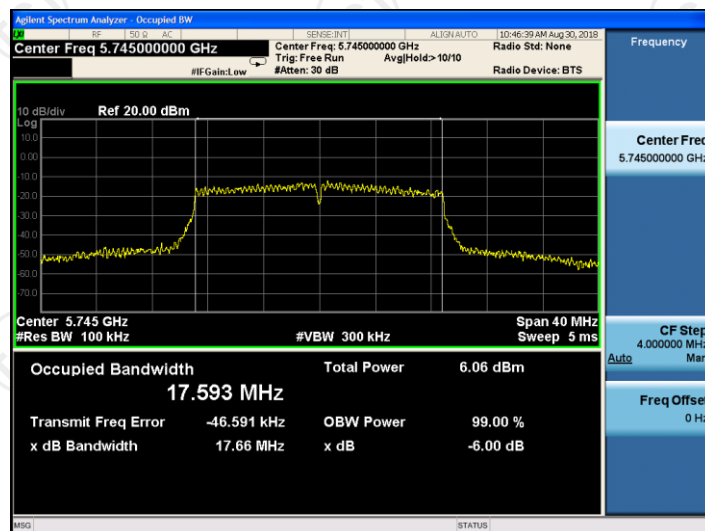


CH165

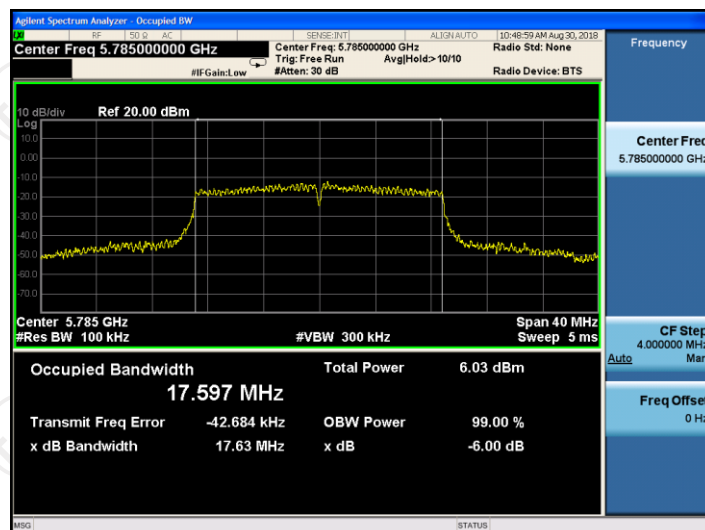


11n(HT20)

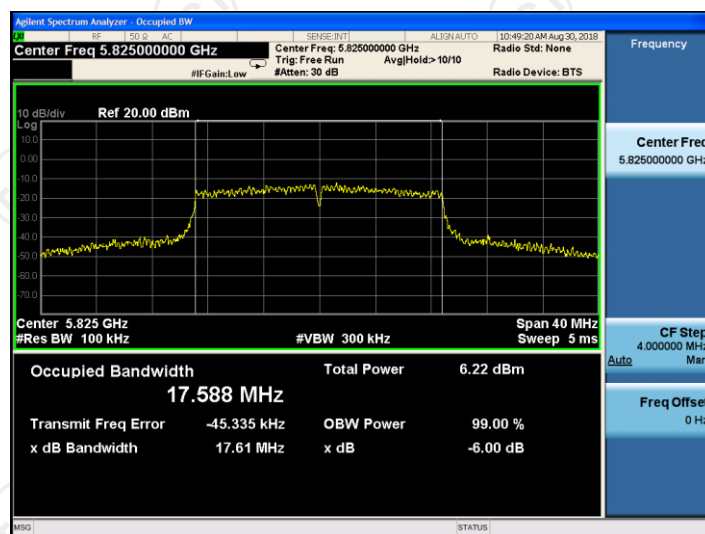
CH149



CH157

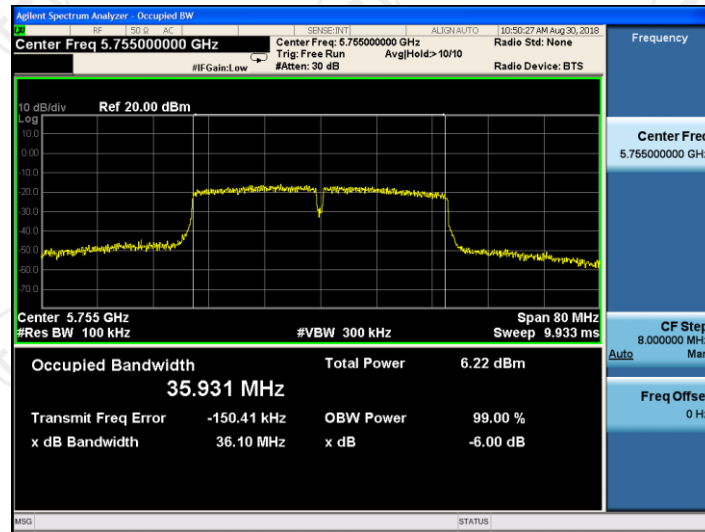


CH165

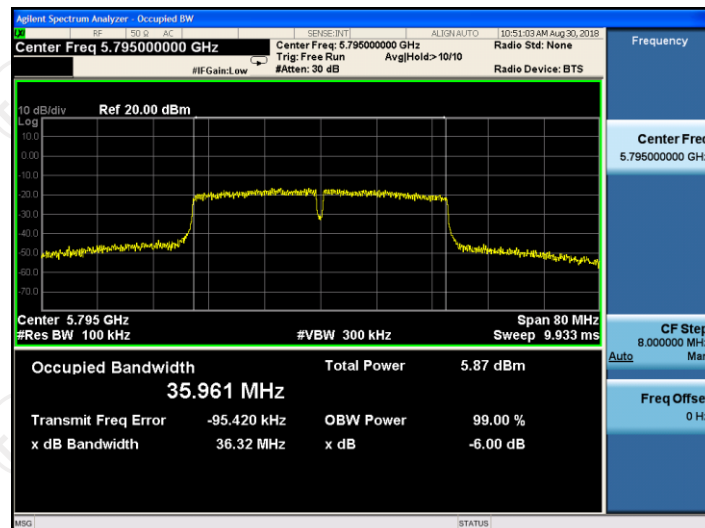


11n(HT40)

CH151

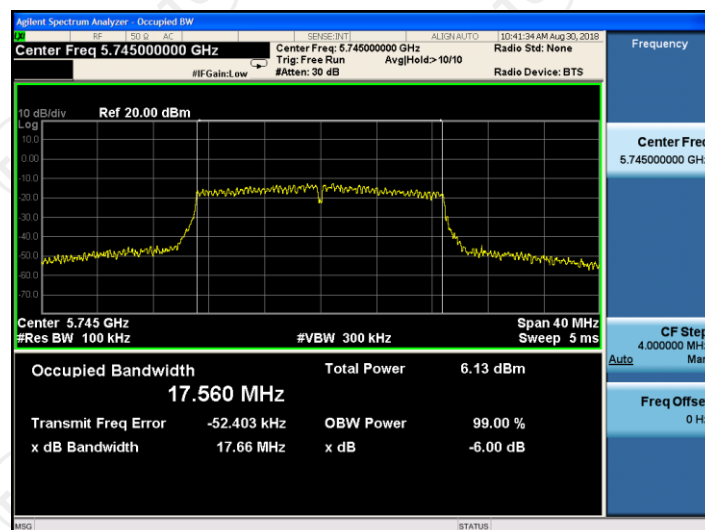


CH159

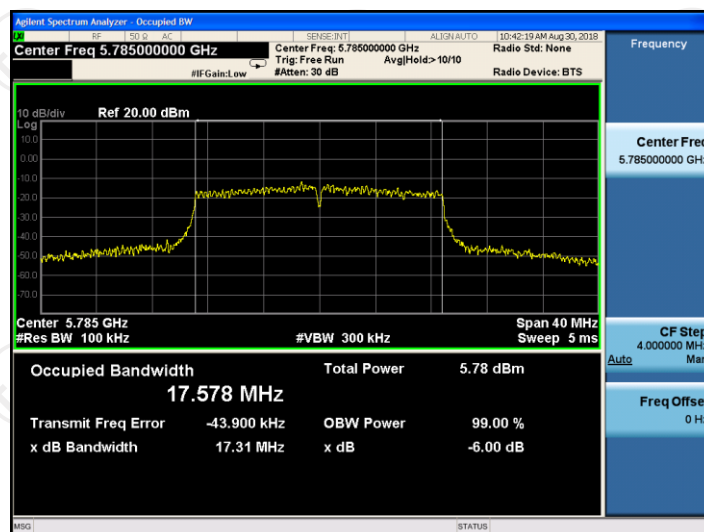


11ac(HT20)

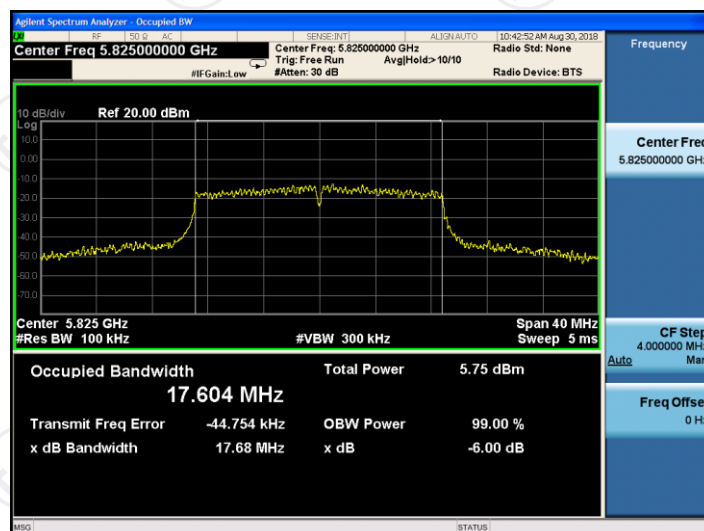
CH149



CH157

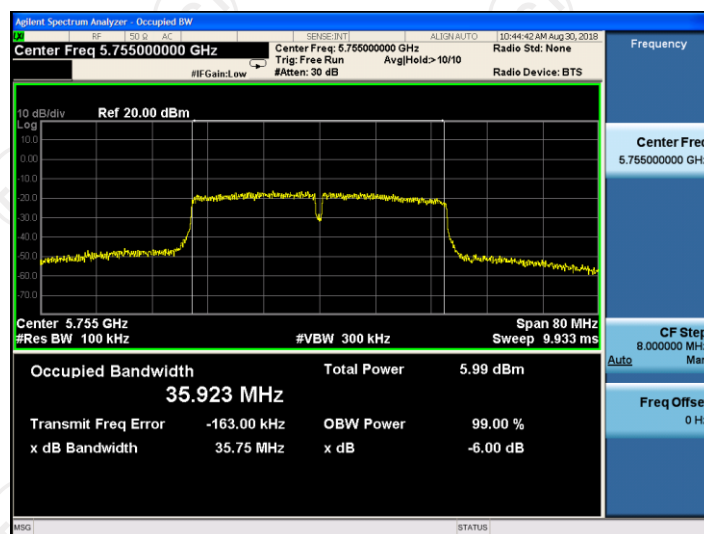


CH165

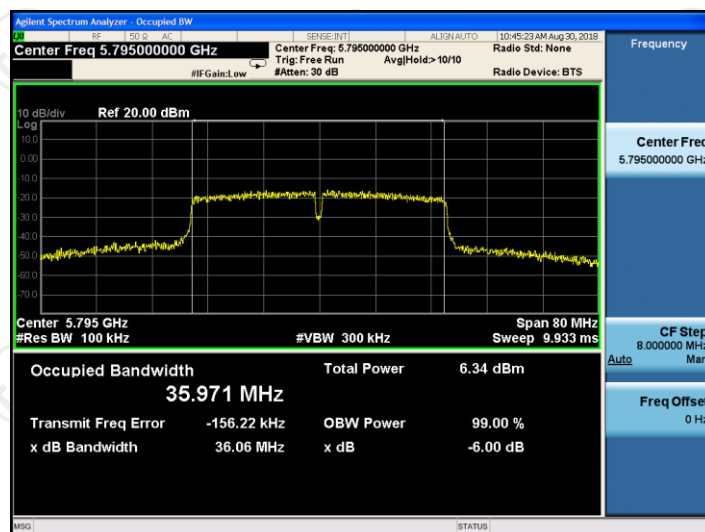


11ac(HT40)

CH151



CH159



6.5. 26dB Bandwidth and 99% Occupied Bandwidth

6.5.1. Test Specification

Test Requirement:	47 CFR Part 15C Section 15.407 (a)& Part 2 J Section 2.1049
Test Method:	KDB662911 D01 Multiple Transmitter Output v02r01 KDB789033 D02 General UNII Test Procedures New Rules v02 Section D
Limit:	No restriction limits
Test Setup:	 Spectrum Analyzer EUT
Test Mode:	Transmitting mode with modulation
Test Procedure:	1. KDB789033 D02 General UNII Test Procedures New Rules v02 Section D 2. Set to the maximum power setting and enable the EUT transmit continuously. 3. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. Set the Video bandwidth (VBW) = 300 kHz. In order to make an accurate measurement. 4. Measure and record the results in the test report.
Test Result:	PASS

6.5.2. Test Instruments

RF Test Room				
Equipment	Manufacturer	Model	Serial Number	Calibration Due
Spectrum Analyzer	Agilent	N9020A	MY49100060	Sep. 27, 2018
RF Cable (9KHz-26.5GHz)	TCT	RE-06	N/A	Sep. 27, 2018
Antenna Connector	TCT	RFC-01	N/A	Sep. 27, 2018

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

6.5.3. Test data

Band 1

Mode	Test channel	Frequency (MHz)	26 dB Bandwidth (MHz)	99% Bandwidth (MHz)
11a	CH36	5180	18.75	16.40
11a	CH40	5200	18.65	16.38
11a	CH48	5240	18.91	16.37
11n(HT20)	CH36	5180	19.35	17.60
11n(HT20)	CH40	5200	19.41	17.58
11n(HT20)	CH48	5240	19.50	17.62
11n(HT40)	CH38	5190	38.72	35.95
11n(HT40)	CH46	5230	38.31	35.93
11ac(HT20)	CH36	5180	19.43	17.61
11ac(HT20)	CH40	5200	19.36	17.58
11ac(HT20)	CH48	5240	19.34	17.59
11ac(HT40)	CH38	5190	38.46	35.93
11ac(HT40)	CH46	5230	38.84	35.96

Band 2A

Mode	Test channel	Frequency (MHz)	26 dB Bandwidth (MHz)	99% Bandwidth (MHz)
11a	CH52	5260	18.73	16.38
11a	CH60	5300	18.83	16.41
11a	CH64	5320	18.95	16.38
11n(HT20)	CH52	5260	19.28	17.61
11n(HT20)	CH60	5300	19.51	17.62
11n(HT20)	CH64	5320	19.34	17.61
11n(HT40)	CH54	5270	38.29	35.97
11n(HT40)	CH62	5310	38.38	35.96
11ac(HT20)	CH52	5260	19.34	17.59
11ac(HT20)	CH60	5300	19.25	17.60
11ac(HT20)	CH64	5320	19.18	17.59
11ac(HT40)	CH54	5270	38.49	35.93
11ac(HT40)	CH62	5310	39.39	36.00

Band 2C

Mode	Test channel	Frequency (MHz)	26 dB Bandwidth (MHz)	99% Bandwidth (MHz)
11a	CH100	5500	18.86	16.39
11a	CH120	5600	18.95	16.46
11a	CH144	5720	18.83	16.36
11n(HT20)	CH100	5500	19.02	17.60
11n(HT20)	CH120	5600	19.53	17.68
11n(HT20)	CH144	5720	19.24	17.57
11n(HT40)	CH102	5510	38.51	35.93
11n(HT40)	CH118	5590	38.59	36.15
11n(HT40)	CH142	5710	38.57	35.93
11ac(HT20)	CH100	5500	19.31	17.55
11ac(HT20)	CH120	5600	19.61	17.69
11ac(HT20)	CH144	5720	19.24	17.59
11ac(HT40)	CH102	5510	38.86	35.95
11ac(HT40)	CH118	5590	39.07	36.14
11ac(HT40)	CH142	5710	38.41	35.89

Band 3

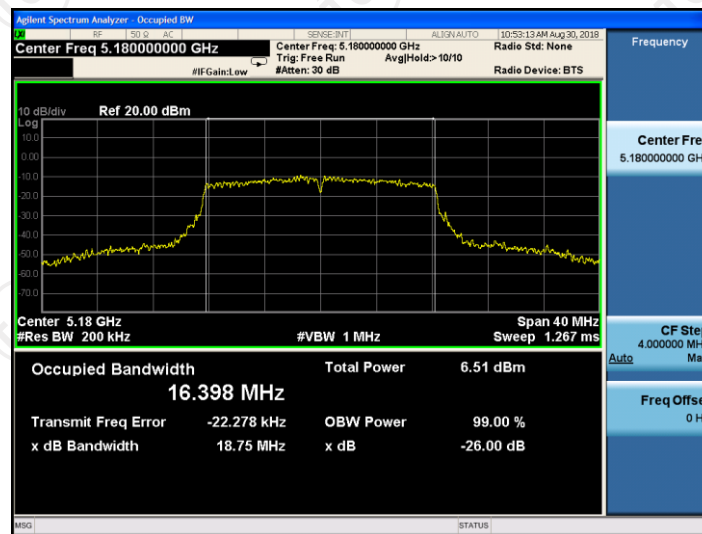
Mode	Test channel	Frequency (MHz)	99% Bandwidth (MHz)
11a	CH149	5745	16.39
11a	CH157	5785	16.41
11a	CH165	5825	16.44
11n(HT20)	CH149	5745	17.57
11n(HT20)	CH157	5785	17.61
11n(HT20)	CH165	5825	17.64
11n(HT40)	CH151	5755	35.94
11n(HT40)	CH159	5795	36.01
11ac(HT20)	CH149	5745	17.58
11ac(HT20)	CH157	5785	17.61
11ac(HT20)	CH165	5825	17.61
11ac(HT40)	CH151	5755	35.95
11ac(HT40)	CH159	5795	36.04

Test plots as follows:

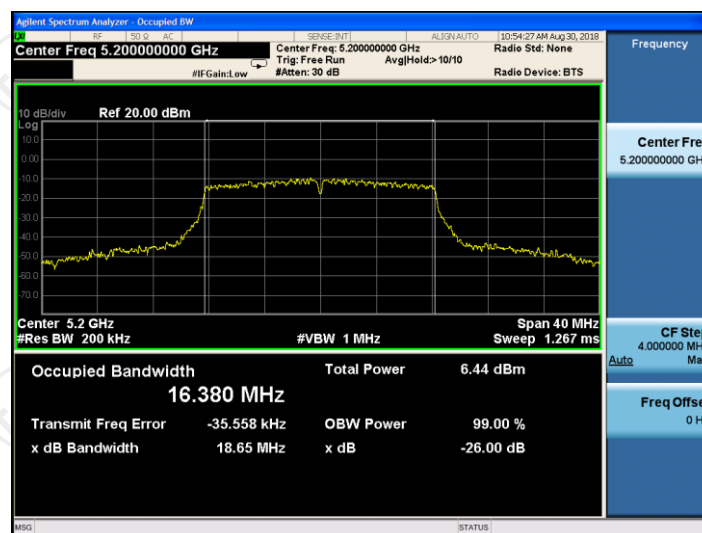
Band 1 (5180-5240 MHz)

11a

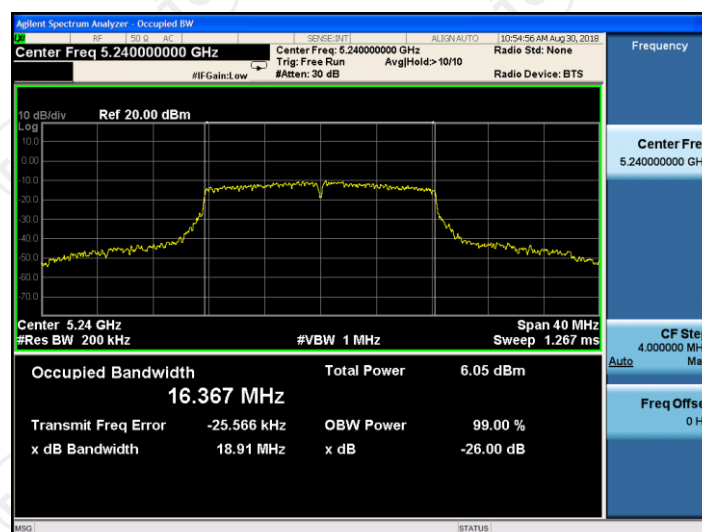
CH36



CH40

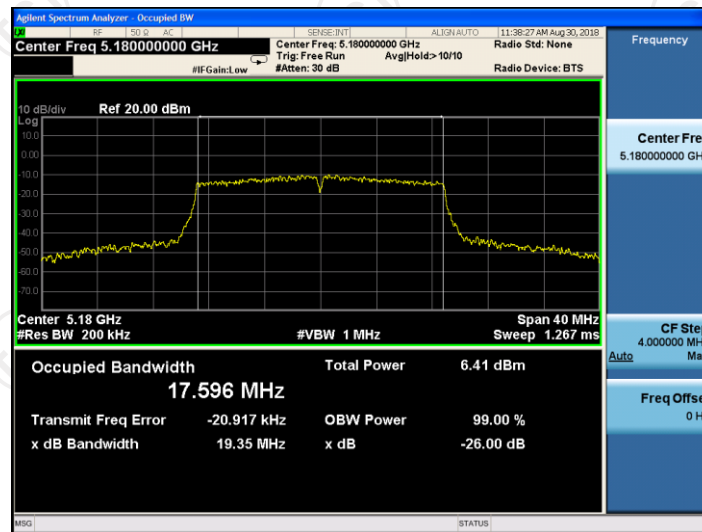


CH48



11n(HT20)

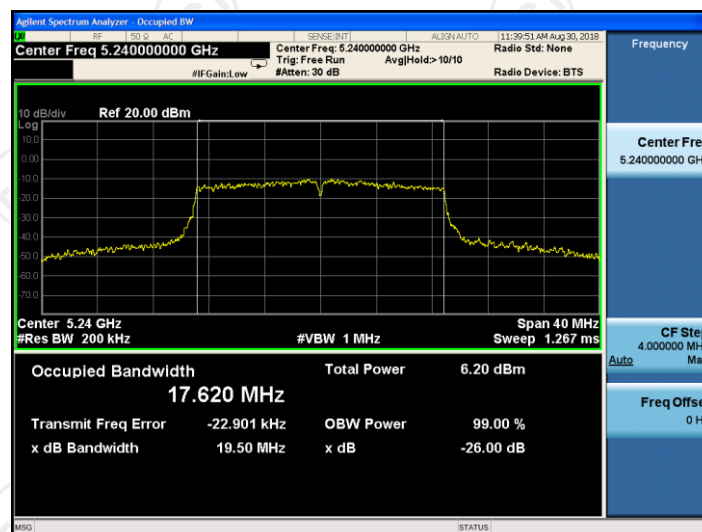
CH36



CH40

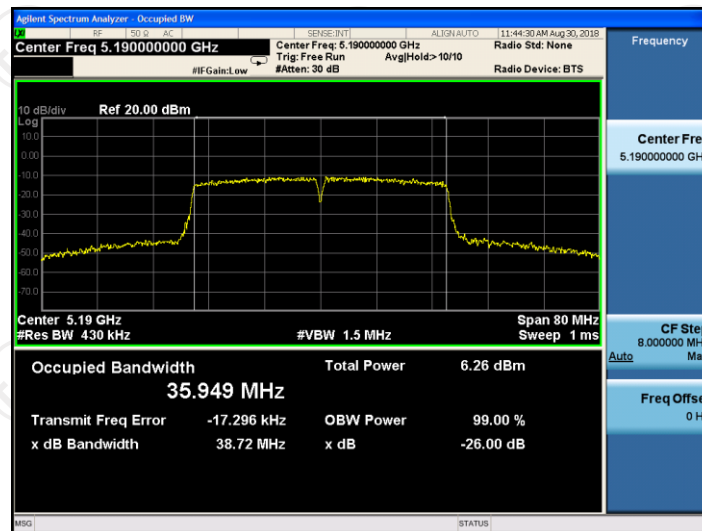


CH48

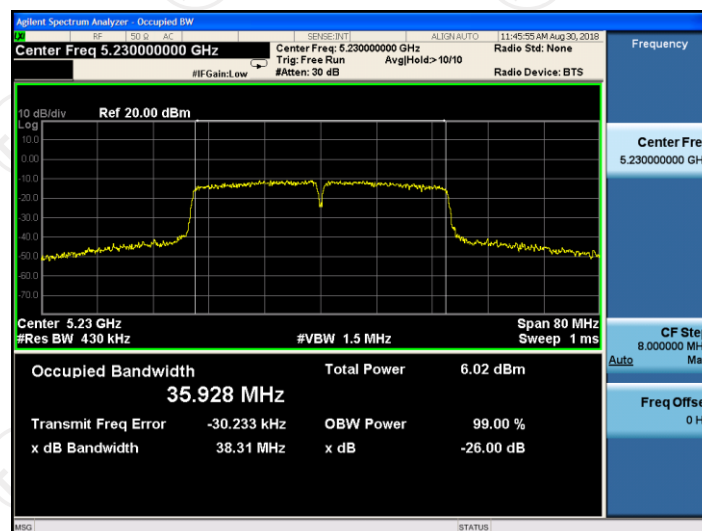


11n(HT40)

CH38

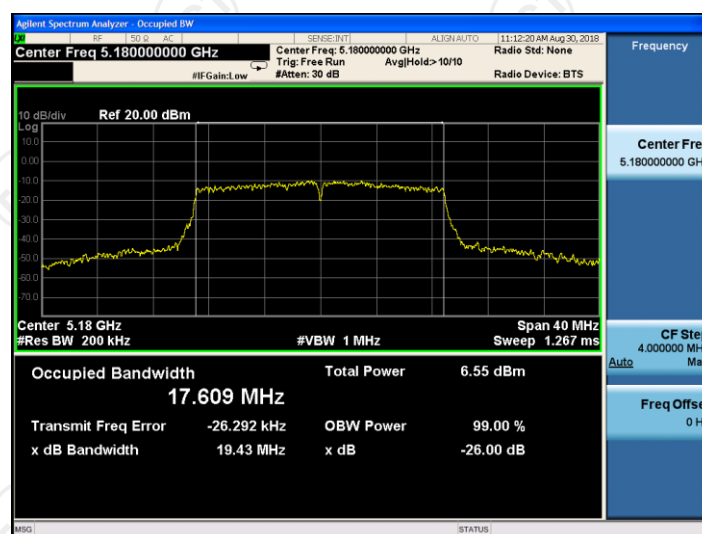


CH46

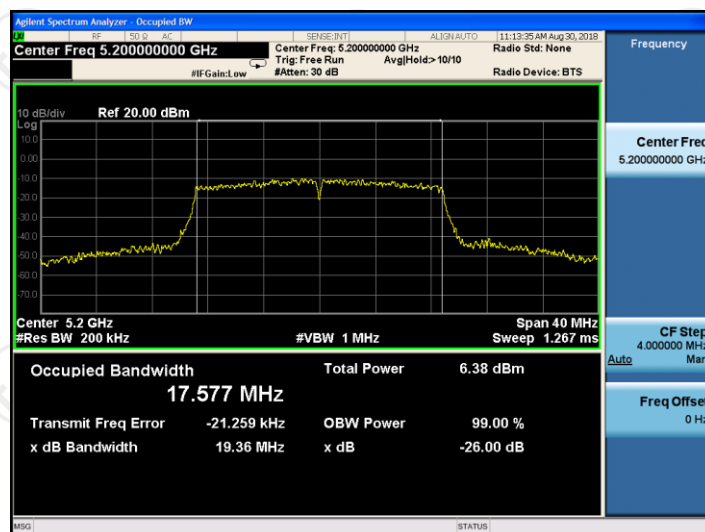


11ac(HT20)

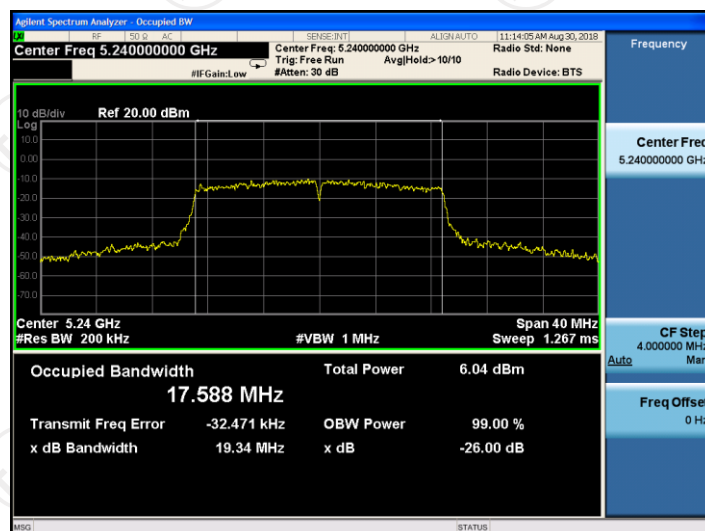
CH36



CH40

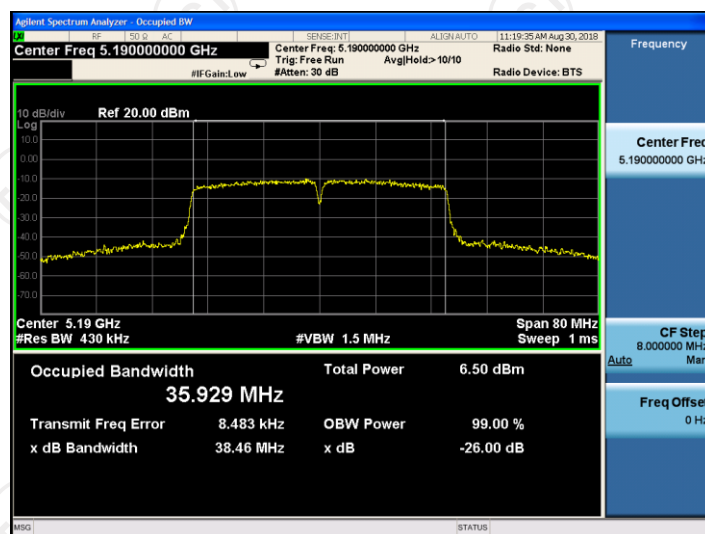


CH48

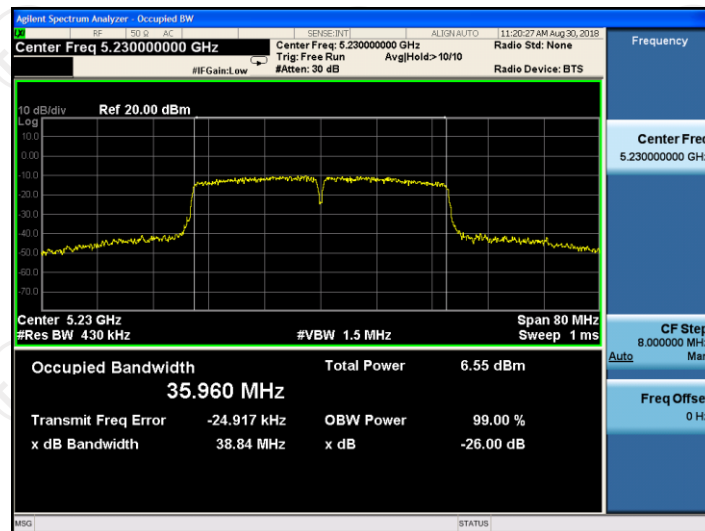


11ac(HT40)

CH38



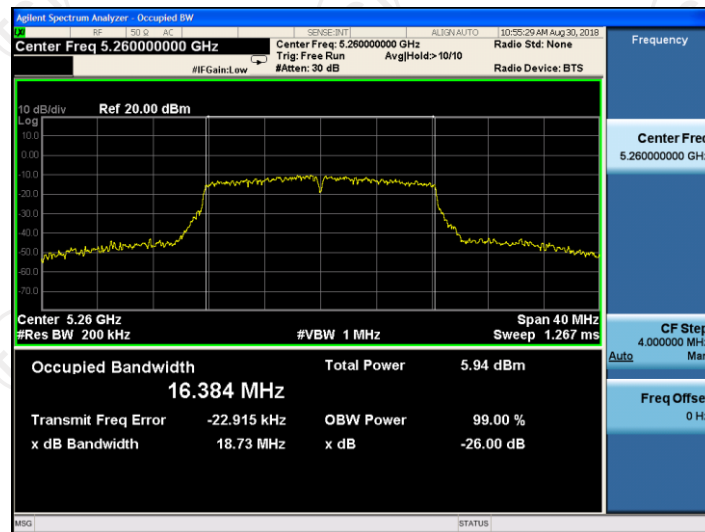
CH46



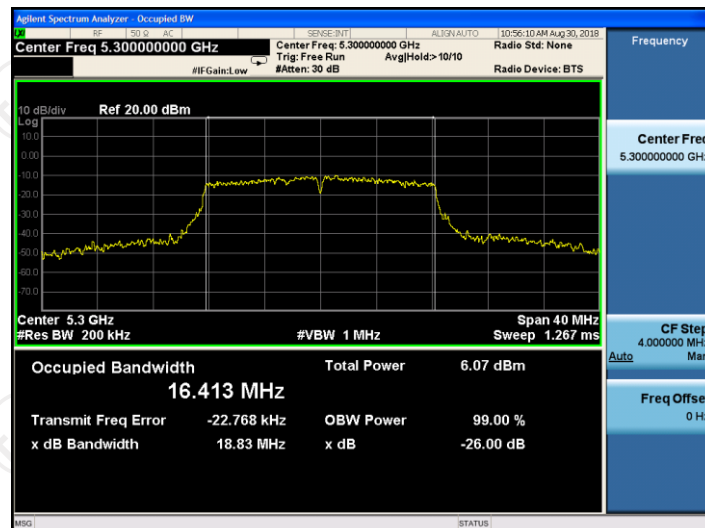
Band 2A (5260-5320MHz)

11a

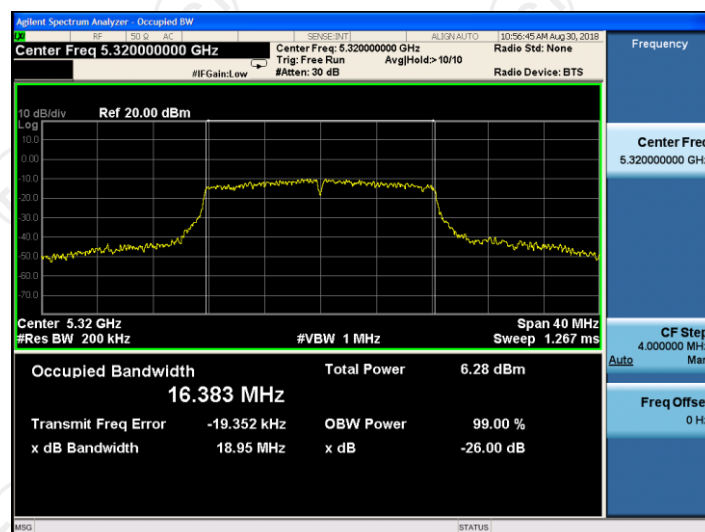
CH52



CH60

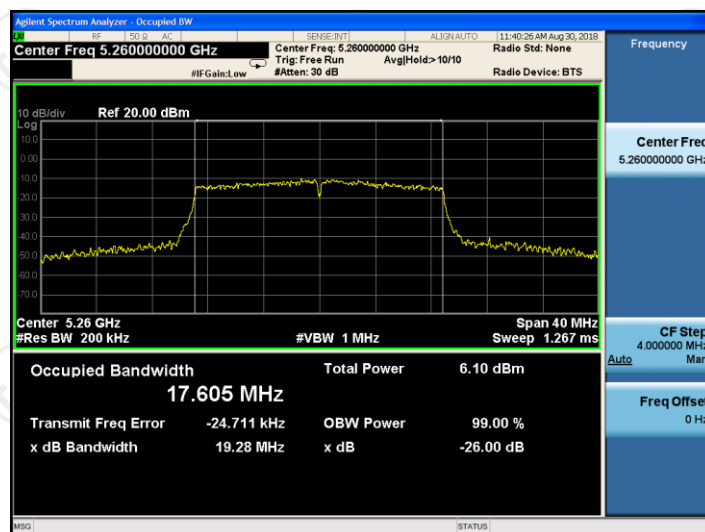


CH64

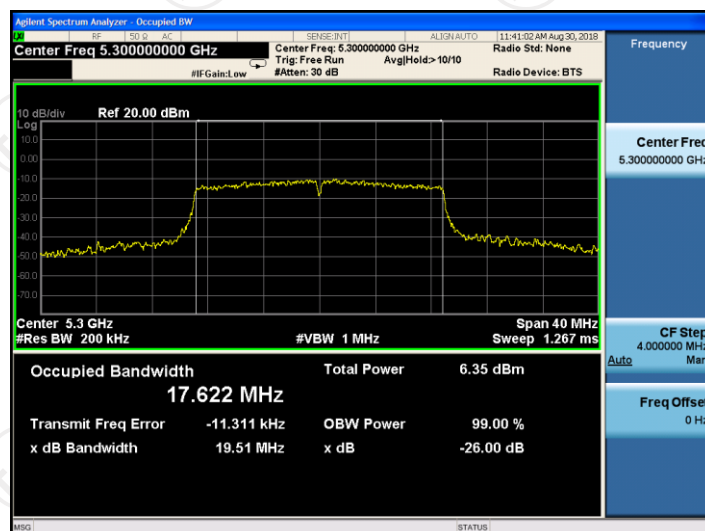


11n(HT20)

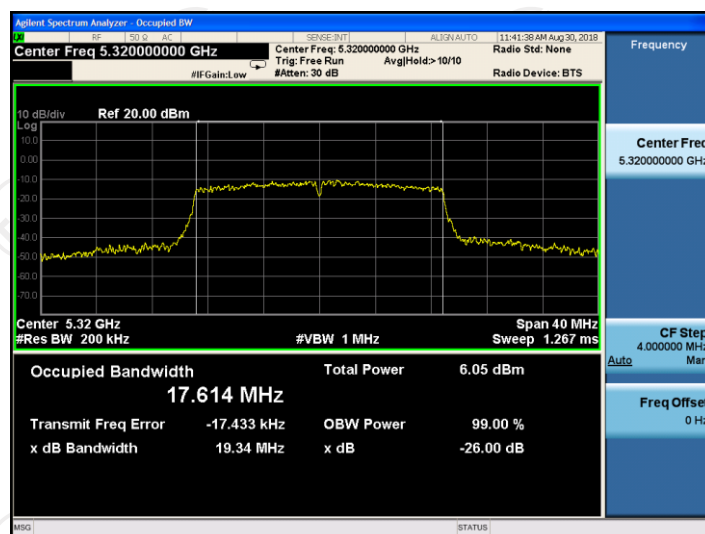
CH52



CH60

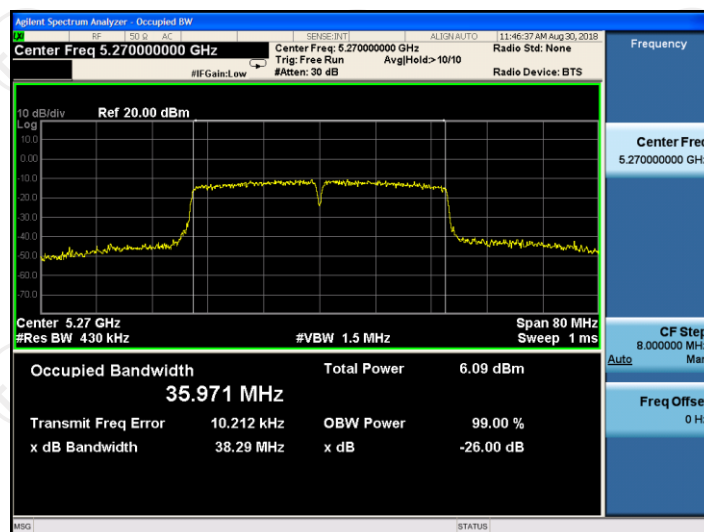


CH64

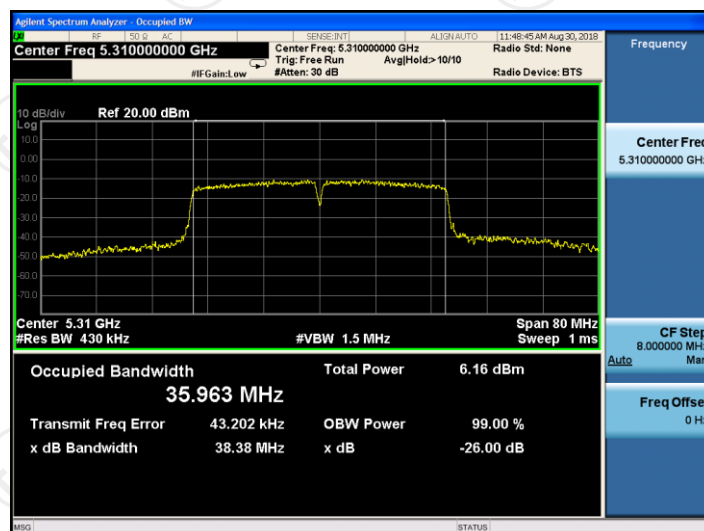


11n(HT40)

CH54

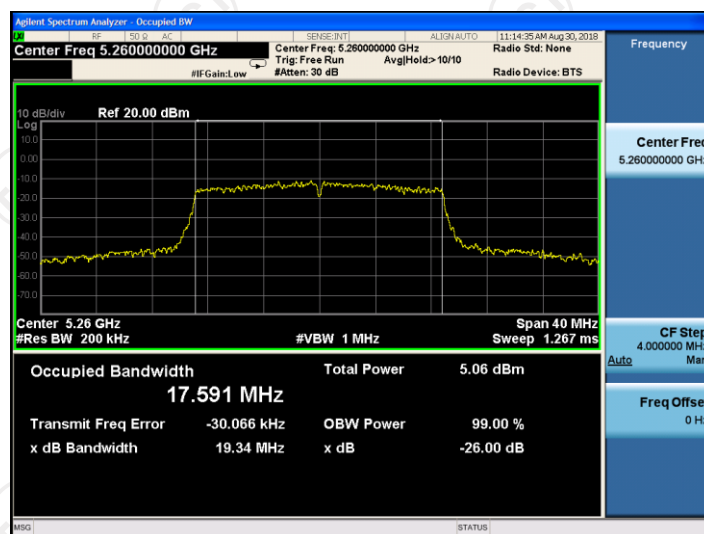


CH62

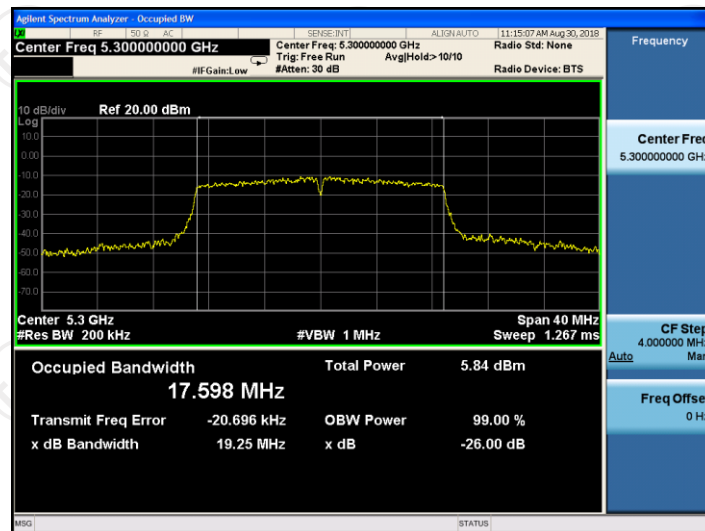


11ac(HT20)

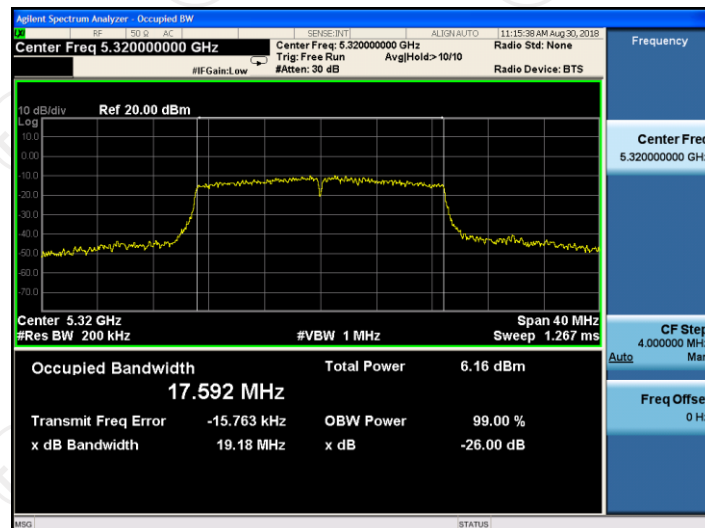
CH52



CH60

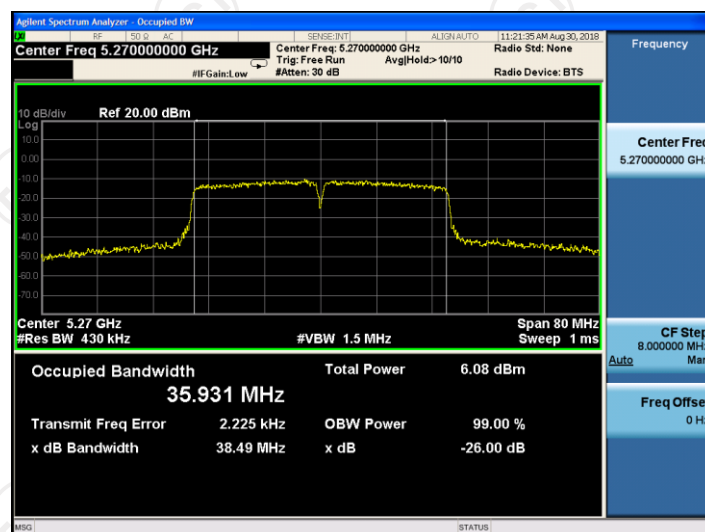


CH64



11ac(HT40)

CH54



CH62

