TEST REPORT

of

FCC Part 15 Subpart E §15.407

FCC ID: ZNFD855

Equipment Under Test	:	Cellular/PCS GSM/GPRS/EDGE/WCDMA and LTE phone with Bluetooth, WLAN and RFID
Model Name	:	LG-D855
Alternative models	:	LGD855, D855, LG-D855k, LG-D855K, LGD855k, LGD855K, D855k, D855K
Applicant	:	LG Electronics MobileComm U.S.A., Inc.
Manufacturer	:	LG Electronics MobileComm U.S.A., Inc.
Date of Test(s)	:	2014. 04. 16 ~ 2014. 04. 30
Date of Issue	:	2014. 05. 26

In the configuration tested, the EUT complied with the standards specified above.

Tested By: **Alvin Kim** **Date:** **2014. 05. 26**

Approved By: **Feel Jeong** **Date:** **2014. 05. 26**

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1. General information

1.1 Testing laboratory

SGS Korea Co., Ltd. (Gunpo Laboratory)
- Wireless Div. 3FL, 4, LS-ro 182beon-gil, Gunpo-si, Gyeonggi-do, Korea, 435-040

All SGS services are rendered in accordance with the applicable SGS conditions of service available on request and accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx.

Phone No. : +82 31 428 5700
Fax No. : +82 31 427 2370

1.2. Details of Applicant

Applicant : LG Electronics MobileComm U.S.A., Inc.
Address : 10101 Old Grove Road, San Diego, CA 92131
Contact Person : Lee, Sang-Myung
Phone No. : +82 2 2033 4606

1.3. Description of EUT

Kind of Product	Cellular/PCS GSM/GPRS/EDGE/WCDMA and LTE phone with Bluetooth, WLAN and RFID
Model Name	LG-D855 (Alternative models: LGD855, D855, LG-D855k, LG-D855K, LGD855k, LGD855K, D855k, D855K)
Power Supply	DC 3.8 V
Frequency Range	13.56 ㎒ (NFC) 2 402 ㎒ ~ 2 480 ㎒ (BT, BT LE), 2 412 ㎒ ~ 2 462 ㎒ (11b/g/n_HT20), 5 745 ㎒ ~ 5 825 ㎒ (Band 3: 11a/n_HT20, 11ac_VHT20), 5 755 ㎒ ~ 5 795 ㎒ (Band 3: 11n_HT40, 11ac_VHT40), 5 775 ㎒ (Band 3: 11ac_VHT80), 5 180 ㎒ ~ 5 240 ㎒ (Band 1: 11a/n_HT20, 11ac_VHT20), 5 190 ㎒ ~ 5 230 ㎒ (Band 1: 11n_HT40, 11ac_VHT40), 5 210 ㎒ (Band 1: 11ac_VHT80), 5 260 ㎒ ~ 5 320 ㎒ (Band 2A: 11a/n_HT20, 11ac_VHT20), 5 270 ㎒ ~ 5 310 ㎒ (Band 2A: 11n_HT40, 11ac_VHT40), 5 290 ㎒ (Band 2A: 11ac_VHT80), 5 500 ㎒ ~ 5 700 ㎒ (Band 2C: 11a/n_HT20, 11ac_VHT20), 5 510 ㎒ ~ 5 670 ㎒ (Band 2C: 11n_HT40, 11ac_VHT40), 5 530 ㎒ (Band 2C: 11ac_VHT80)
Modulation Technique	DSSS, OFDM, GFSK, π/4DQPSK, 8DPSK, ASK
Number of Channels	11 channel (11b/g/n_HT20), 5 channel (Band 3: 11a/n_HT20, 11ac_VHT20), 2 channel (Band 3: 11n_HT40, 11ac_VHT40), 1 channel (Band 3: 11ac_VHT80), 4 channel (Band 1: 11a/n_HT20, 11ac_VHT20), 2 channel (Band 1: 11n_HT40, 11ac_VHT40), 1 channel (Band 1: 11ac_VHT80), 4 channel (Band 2A: 11a/n_HT20, 11ac_VHT20), 2 channel (Band 2A: 11n_HT40, 11ac_VHT40), 1 channel (Band 2A: 11ac_VHT80), 8 channel (Band 2C: 11a/n_HT20, 11ac_VHT20), 3 channel (Band 2C: 11n_HT40, 11ac_VHT40), 1 channel (Band 2C: 11ac_VHT80), 79 channel (BT), 40 channel (BT LE), 1 channel (NFC)
Antenna Type	Internal type (SISO)
Antenna Gain	2 402 ㎒ ~ 2 480 ㎒, 2 412 ㎒ ~ 2 462 ㎒: -3.09 ㏈i, 5 180 ㎒ ~ 5 320 ㎒: -1.58 ㏈i, 5 500 ㎒ ~ 5 700 ㎒: -0.13 ㏈i, 5 745 ㎒ ~ 5 825 ㎒: -0.13 ㏈i

1.4. Declaration by the manufacturer

- EUT is SLAVE without DFS and TPC.

1.5. Test equipment list

Equipment	Manufacturer	Model	S/N	Cal Date	Cal Interval	Cal Due.
Signal Generator	R&S	SMBV100A	259067	Jul. 15, 2013	Annual	Jul. 15, 2014
Signal Generator	R&S	SMR40	100272	Aug. 10, 2013	Annual	Aug. 10, 2014
Spectrum Analyzer	Agilent	N9030A	US51350132	Oct. 08, 2013	Annual	Oct. 08, 2014
Attenuator	Agilent	8490D	50449	Dec. 13, 2013	Annual	Dec. 13, 2014
Attenuator	Agilent	8490D	50748	Dec. 13, 2013	Annual	Dec. 13, 2014
Attenuator	MCLI	FAS-23-20	25573	Jun. 19, 2013	Annual	Jun. 19, 2014
Band Reject Filter	Wainwright	WRCJV5150/5350-5130/ 5370-50/16SS	1	Sep. 28, 2013	Annual	Sep. 28, 2014
Band Reject Filter	Wainwright	WRCJV5470/5725-5450/ 5745-50/20SS	1	Sep. 28, 2013	Annual	Sep. 28, 2014
High Pass Filter	Wainwright	WHK6.0/18G-10SS	11	Jun. 08, 2013	Annual	Jun. 08, 2014
High Pass Filter	Wainwright	WHNX7.5/26.5G-6SS	11	Jun. 08, 2013	Annual	Jun. 08, 2014
Low Pass Filter	Mini-Circuits	NLP-1200+	V 8979400903-2	Jun. 12, 2013	Annual	Jun. 12, 2014
Power Meter	Anritsu	ML2495A	1223004	Jun. 13, 2013	Annual	Jun. 13, 2014
Power Sensor	Anritsu	MA2411B	1207272	Jun. 13, 2013	Annual	Jun. 13, 2014
Power Sensor	R&S	NRP-Z81	100418	Mar. 19, 2014	Annual	Mar. 19, 2015
DC power Supply	Agilent	U8002A	MY49030063	Dec. 12, 2013	Annual	Dec. 12, 2014
Preamplifier	H.P.	8447F	2944A03909	Jun. 28, 2013	Annual	Jun. 28, 2014
Preamplifier	R&S	SCU 18	1391123	Sep. 30, 2013	Annual	Sep. 30, 2014
Preamplifier	MITEQ Inc.	JS44-18004000-35-8P	1546891	Jun. 13, 2013	Annual	Jun. 13, 2014
Loop Antenna	R&S	HFH2-Z2	100118	Jul. 12, 2013	Biennial	Jul. 12, 2015
Bilog Antenna	SCHWARZBECK	VULB9163	396	Jun. 07, 2013	Biennial	Jun. 07, 2015
Horn Antenna	SCHWARZBECK	BBHA9170	BBHA9170431	Aug. 24, 2012	Biennial	Aug. 24, 2014
Horn Antenna	R&S	HF906	100326	Dec. 10, 2013	Biennial	Dec. 10, 2015
Test Receiver	R&S	ESU26	100109	Mar. 04, 2014	Annual	Mar. 04, 2015
Antenna Master	INN-CO	MM4000	N/A	N/A	N/A	N.C.R.
Turn Table	INN-CO	DS 1200 S	N/A	N/A	N/A	N.C.R.
Test Receiver	R&S	ESHSI0	863365/018	Jun, 27. 2013	Annual	Jun, 27. 2014
Two-Line V-Network	R&S	ENV216	100190	Jan. 02, 2014	Annual	Jan. 02, 2015
Anechoic Chamber	SY Corporation	L × W × H (6.5 m × 3.5 m × 3.5 m)	N/A	N/A	N/A	N.C.R.
Anechoic Chamber	SY Corporation	L × W × H (9.6 m × 6.4 m × 6.6 m)	N/A	N/A	N/A	N.C.R.

▶ Support equipment

Description	Manufacturer	Model	Serial Number	FCC ID
Wireless Charger	LG Electronics	WCP-300	306HYNY008023	BEJWCP300

1.6. Summary of test result

The EUT has been tested according to the following specifications:

APPLIED STANDARD:FCC Part15 subpart E		
Section in FCC 15	**Test Item**	**Result**
15.205(a) 15.209(a) 15.407(b)(1) 15.407(b)(2) 15.407(b)(3)	Transmitter radiated spurious emissions and Conducted spurious emission	Complied
15.407(a)(1) 15.407(a)(2)	Output power	Complied
15.407(a)(1) 15.407(a)(2)	Peak power spectral density	Complied
15.407(a)(6)	Peak excursion	Complied
15.207	Transmitter AC power line Conducted emission	Complied

1.7. Test Procedure(s)

The measurement procedures described in the American National Standard for Methods of Measurement of Radio-Noise Emission from Low-Voltage Electrical and Electronic Equipment in the Range of 9 ㎑ to 40 ㎓ (ANSI C63.4-2003) and the guidance provided in KDB 789033 v01r03 were used in the measurement of the DUT.

1.8. Sample calculation

Where relevant, the following sample calculation is provided:

1.8.1. Conducted test

Offset value (㏈) = Attenuator (㏈) + Cable loss (㏈)

1.8.2. Radiation test

Field strength level (㏈㎶/m) = Measured level (㏈㎶) + Antenna factor (㏈) + Cable loss (㏈) - amplifier (㏈)

1.9. Test report revision

Revision	Report number	Date of Issue	Description
0	F690501/RF-RTL007643	2014. 05. 12	Initial
1	F690501/RF-RTL007643-1	2014. 05. 26	Remove S/W and H/W version

1.10. Information of Alternative model

Model	Information
LG-D855	Basic model name.
LGD855	H/W and S/W are same to basic model. It is only different model name for marketing purpose
D855	H/W and S/W are same to basic model. It is only different model name for marketing purpose
LG-D855k	H/W and S/W are same to basic model. It is only different model name for marketing purpose
LG-D855K	H/W and S/W are same to basic model. It is only different model name for marketing purpose
LGD855k	H/W and S/W are same to basic model. It is only different model name for marketing purpose
LGD855K	H/W and S/W are same to basic model. It is only different model name for marketing purpose
D855k	H/W and S/W are same to basic model. It is only different model name for marketing purpose
D855K	H/W and S/W are same to basic model. It is only different model name for marketing purpose

1.11. Duty Cycle of EUT

Regarding to KDB789033 D01 v01r03, B), the maximum duty cycles of all modes were investigated and set the spectrum analyzer as below
Set RBW ≥ EBW if possible; otherwise, set RBW to the largest available value, Set VBW ≥ RBW. Set detector = peak or average. The zero-span measurement method shall not be used unless both RBW and VBW are > 50/T and the number of sweep points across duration T exceeds 100.

Mode	Data Rate									
11a	**6**	**9**	**12**	**18**	**24**	**36**	**48**	**54**		
Duty Cycle (%)	95	92	90	86	83	78	73	71	-	-
Correction factor (dB)	0.22	0.36	0.46	0.66	0.81	1.08	1.37	1.49	-	-
11n_HT20	**MCS0**	**MCS1**	**MCS2**	**MCS3**	**MCS4**	**MCS5**	**MCS6**	**MCS7**		
Duty Cycle (%)	94	90	85	81	77	69	67	65	-	-
Correction factor (dB)	0.27	0.46	0.71	0.92	1.14	1.61	1.74	1.87	-	-
11n_HT40	**MCS0**	**MCS1**	**MCS2**	**MCS3**	**MCS4**	**MCS5**	**MCS6**	**MCS7**		
Duty Cycle (%)	89	81	76	69	61	54	55	50	-	-
Correction factor (dB)	0.51	0.92	1.19	1.61	2.15	2.68	2.60	3.01	-	-
11ac_VHT20	**MCS0**	**MCS1**	**MCS2**	**MCS3**	**MCS4**	**MCS5**	**MCS6**	**MCS7**	**MCS8**	
Duty Cycle (%)	90	82	78	71	66	58	58	57	50	-
Correction factor (dB)	0.46	0.86	1.08	1.49	1.80	2.37	2.37	2.44	3.01	-
11ac_VHT40	**MCS0**	**MCS1**	**MCS2**	**MCS3**	**MCS4**	**MCS5**	**MCS6**	**MCS7**	**MCS8**	**MCS9**
Duty Cycle (%)	82	73	66	62	55	50	47	47	44	44
Correction factor (dB)	0.86	1.37	1.80	2.08	2.60	3.01	3.28	3.28	3.57	3.57
11ac_VHT80	**MCS0**	**MCS1**	**MCS2**	**MCS3**	**MCS4**	**MCS5**	**MCS6**	**MCS7**	**MCS8**	**MCS9**
Duty Cycle (%)	71	56	52	47	44	41	38	38	38	31
Correction factor (dB)	1.49	2.52	2.84	3.28	3.57	3.87	4.20	4.20	4.20	5.09

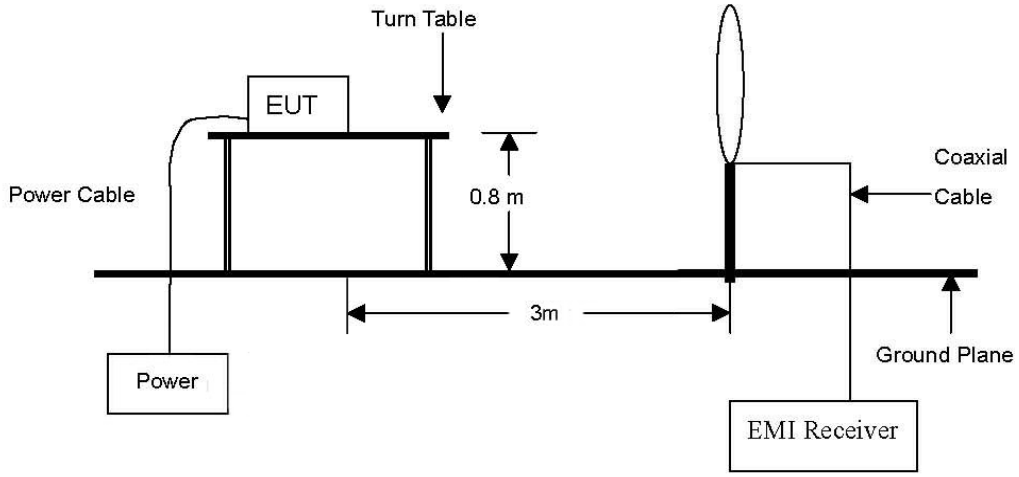
Remark:
1. As measured duty cycles of EUT, all of mode and data rate keep constant period and are converted to log scale (power averaging) to compensate correction factor to result of average test items.
2. Duty cycle (%) = (Tx on time / Tx on + off time) x 100
3. Correction factor (dB) = 10 log (1/duty cycle (ms))

2. Transmitter radiated spurious emissions and conducted spurious emission

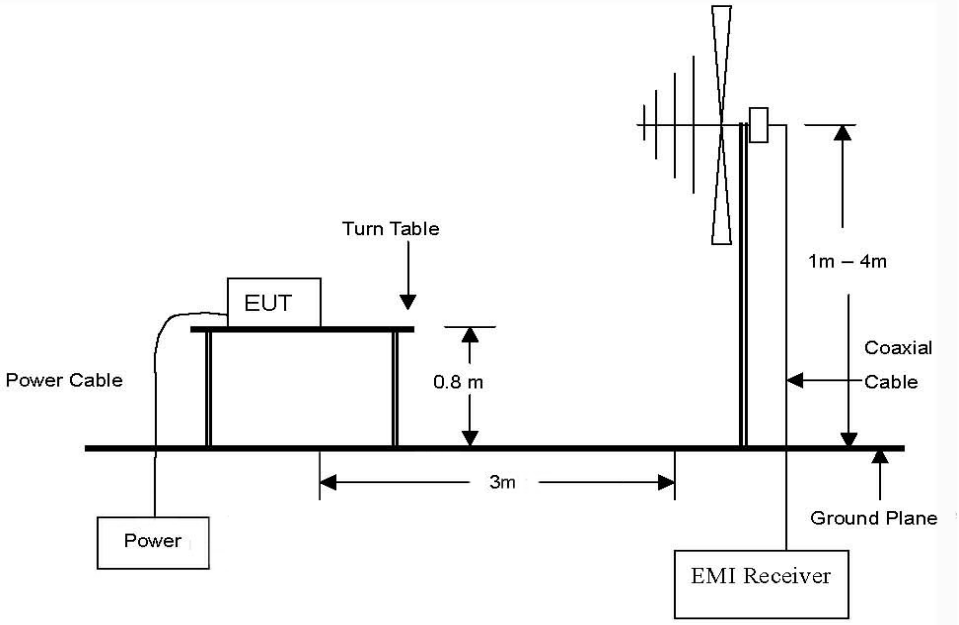
2.1. Test setup

2.1.1. Transmitter Radiated Spurious Eemissions

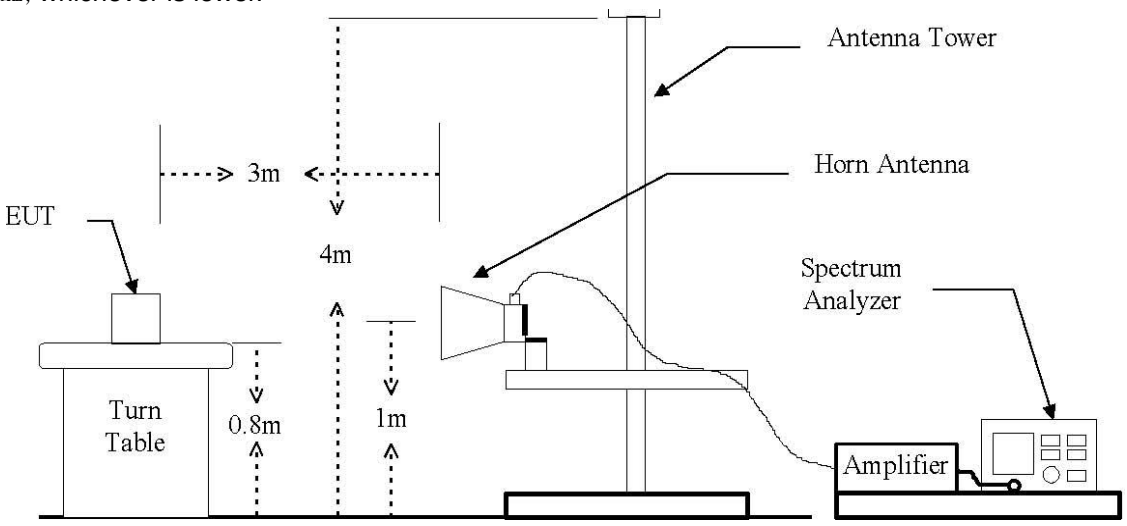
The diagram below shows the test setup that is utilized to make the measurements for emission from 9 ㎑ to 30 ㎒ Emissions.



The diagram below shows the test setup that is utilized to make the measurements for emission from 30 ㎒ to 1 ㎓ Emissions.



The diagram below shows the test setup that is utilized to make the measurements for emission. The spurious emissions were investigated form 1 ㎓ to the 10th harmonic of the highest fundamental frequency or 40 ㎓, whichever is lower.



2.2. Limit

For transmitters operating in the 5.15 ~ 5.25 ㎓ band: all emissions outside of the 5.15 ~ 5.35 ㎓ band shall not exceed an EIRP of -27 m/㎒.
For transmitters operating in the 5.25 ~ 5.35 ㎓ band: all emissions outside of the 5.15 ~ 5.35 ㎓ band shall not exceed an EIRP of -27 ㏈m/㎒. Devices operating in the 5.25 ~ 5.35 ㎓ band that generate emissions in the 5.15 ~ 5.25 ㎓ band must meet all applicable technical requirements for operation in the 5.15 ~ 5.25 ㎓ band (including indoor use) or alternatively meet an out-of-band emission EIRP limit of -27 ㏈m/㎒ in the 5.15 ~ 5.25 ㎓ band.
For transmitters operating in the 5.47 ~ 5.725 ㎓ band: all emissions outside of the 5.47 ~ 5.725 ㎓ band shall not exceed an EIRP of −27 ㏈m/㎒.

According to § 15.209(a), Except as provided elsewhere in this Subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table：

Frequency (㎒)	Distance (Meters)	Field Strength (㏈㎶/m)	Field Strength (㎶/m)
0.009 – 0.490	300	20 log (2 400/F(㎑))	2 400/F(㎑)
0.490 – 1.705	30	20 log (24 000/F(㎑))	24 000/F(㎑)
1.705 – 30.0	30	29.54	30
30 - 88	3	40.0	100
88 – 216	3	43.5	150
216 – 960	3	46.0	200
Above 960	3	54.0	500

2.3. Test procedures

Radiated spurious emissions from the EUT were measured according to the dictates in section H of KDB 789033 v01r03 and ANSI C63.4 2003.

Battery cover used on device is supported to operating during battery charging condition with wireless charger.
According to KDB648474 D03 Wireless Chargers Battery Cover v01r02, transmitter spurious emissions measurement had to be adjusted as two kinds of test which are without battery charger and with battery charger during normal charging condition in radiation spurious emission.

All data rates and modes were investigated for conducted spurious emissions. The emissions of the configuration that produced the worst case emissions are reported in this section.

2.3. Test procedures for radiated spurious emissions

2.3.1. Test Procedures for emission below 30 ㎒

1. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter anechoic chamber test site. The table was rotated 360 degrees to determine the position of the highest radiation.
2. Then antenna is a loop antenna is fixed at one meter above the ground to determine the maximum value of the field strength. Both parallel and perpendicular of the antenna are set to make the measurement.
3. For each suspected emission, the EUT was arranged to its worst case and then the table was turned from 0 degrees to 360 degrees to find the maximum reading.
4. The test-receiver system was set to average or quasi peak detect function and Specified Bandwidth with Maximum Hold Mode.

2.3.2. Test Procedures for emission from above 30 ㎒

1. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter anechoic chamber test site. The table was rotated 360 degrees to determine the position of the highest radiation.
2. During performing radiated emission below 1 ㎓, the EUT was set 3 meters away from the interference receiving antenna, which was mounted on the top of a variable-height antenna tower. During performing radiated emission above 1 ㎓, the EUT was set 3 meter away from the interference-receiving antenna.
3. The antenna is a bi-log antenna, a horn antenna and its height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the table was turned from 0 degrees to 360 degrees to find the maximum reading.
5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
6. If the emission level of the EUT in peak mode was 10 ㏈ lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10 ㏈ margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

NOTE;

- The measurements for below 1 ㎓ refer to section H)4)
  Compliance shall be demonstrated using CISPR quasi-peak detection; however, peak detection is permitted as an alternative to quasi-peak detection.

- The measurements for above 1 ㎓ H)5)
  Peak emission levels are measured by setting the analyzer as follows:
  Set to RBW = 1 ㎒, VBW ≥ 3 ㎒, Detector = Peak, Sweep time = auto, Trace mode= Max hold

- The measurements for above 1 ㎓ H)6)
  Average emission levels are measured by setting the analyzer as follows:
  Set to RBW = 1 ㎒, VBW ≥ 3 ㎒, Detector = RMS, Averaging type = power(i.e., RMS), Sweep time = auto, Trace mode= trace average of at least 100 traces. If the transmission is not continuous, the number of traces shall be increased by a factor of 1/x, where x is the duty cycle.
  If duty cycle < 98 percent, a correction factor shell be added to the measurement results.
  - Power averaging (RMS) mode was used above the correction factor is 10 log (1/x), where x is the duty cycle.

To get a maximum emission level from the EUT, the EUT is manipulated through three orthogonal planes.

Worst orthogonal plan of EUT is **Z – axis** during radiation test.

2.4. Test result

Ambient temperature : (24 ± 2) ℃
Relative humidity : 49 % R.H.

2.4.1. Spurious radiated emission

The frequency spectrum from 9 ㎑ to 1 000 ㎒ was investigated. All reading values are applied for peak, quasi peak and average values per frequency band.

2.4.1.1. Battery Cover without charger

Radiated Emissions			Ant.	Correction Factors		Total	FCC Limit	
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	AMP + CL (dB)	Actual (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
41.72	36.27	Peak	V	15.97	-26.84	25.40	40.00	14.60
47.06	33.88	Peak	H	14.68	-26.76	21.80	40.00	18.20
61.49	35.74	Peak	V	14.06	-26.60	23.20	40.00	16.80
485.74	35.00	Peak	V	18.27	-25.37	27.90	46.00	18.10
509.26	33.86	Peak	H	18.70	-25.36	27.20	46.00	18.80
Above 600.00	Not detected	-	-	-	-	-	-	-

Remark:

1. Spurious emissions for all channels and modes were investigated and almost the same below 1 ㎓.
2. Reported spurious emissions are in **11a / 6 Mbps / 44 channel** as worst case among other modes.
3. Radiated spurious emission measurement as below
   (Actual = Reading + Antenna Factor + Amp + CL)

2.4.1.2. Battery Cover with charger

- Emissions below 30 ㎒

Radiated Emissions			Ant.	Correction Factors		Total		FCC Limit	
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	Ant. (dB/m)	Cable (dB)	Actual (dB㎶/m) at 3 m	Actual (dB㎶/m) at 30 m or 300 m	Limit (dB㎶/m)	Margin (dB)
0.14	47.35	Average	H	18.68	0.04	66.07	-13.93	24.68	38.61
0.42	23.14	Average	H	18.54	0.07	41.75	-38.25	15.14	53.39
0.71	17.34	Q.P.	H	18.50	0.09	35.93	-4.07	30.58	34.65
0.93	11.38	Q.P.	H	18.50	0.10	29.98	-10.02	28.23	38.25

- Emissions above 30 ㎒

Radiated Emissions			Ant.	Correction Factors		Total	FCC Limit	
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	AMP + CL (dB)	Actual (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
45.00	46.77	Peak	V	16.13	-26.80	36.10	40.00	3.90
50.82	43.41	Peak	V	15.70	-26.71	32.40	40.00	7.60
55.14	40.37	Peak	H	13.70	-26.67	27.40	40.00	12.60
78.46	46.39	Peak	V	9.53	-26.42	29.50	40.00	10.50
177.24	40.77	Peak	H	8.63	-25.50	23.90	43.50	19.60
Above 200.00	Not detected	-	-	-	-	-	-	-

Remark:

1. Spurious emissions for all channels and modes were investigated and almost the same below 1 ㎓.
2. Reported spurious emissions are in **11a / 6 Mbps / 44 channel** as worst case among other modes.
3. Radiated spurious emission measurement as below
   (Actual = Reading + Antenna Factor + Amp + CL)
4. Measurement with wireless charger was performed during actual charging condition.
5. Emissions of the frequency between 0.009 ㎒ and 0.490 ㎒ should be adjusted at 300m distance.
   Distance compensation: 40 log (300/3) = 80 ㏈
6. Emissions of the frequency between 0.490 ㎒ and 1.705 ㎒ should be adjusted at 30m distance.
   Distance compensation: 40 log (30/3) = 40 ㏈

2.4.2. Spurious radiated emission for above 1 ㎓

2.4.2.1. Battery Cover without charger

802.11a (Band 1) _6 Mbps

A. Low Channel (5 180 ㎒)

Radiated Emissions			Ant.	Correction Factors			Total	FCC Limit	
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	CL (dB)	Duty (dB)	Actual (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
*4 811.35	16.57	Peak	H	32.69	8.81	-	58.07	74.00	15.93
*4 811.35	7.32	Average	H	32.69	8.81	0.22	49.04	54.00	4.96
*5 150.00	13.26	Peak	H	33.51	9.32	-	56.09	74.00	17.91
*5 150.00	4.86	Average	H	33.51	9.32	0.22	47.91	54.00	6.09

Radiated Emissions			Ant.	Correction Factors			Total	FCC Limit	
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	AMP+ CL (dB)	Duty (dB)	Actual (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
10 360.02	35.89	Peak	H	37.74	-24.50	-	49.13	68.23	19.10
Above 10 400.00	Not detected	-	-	-	-	-	-	-	-

B. Middle Channel (5 220 ㎒)

Radiated Emissions			Ant.	Correction Factors			Total	FCC Limit	
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	AMP+ CL (dB)	Duty (dB)	Actual (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
10 440.42	38.29	Peak	H	37.66	-24.72	-	51.23	68.23	17.00
Above 10 500.00	Not detected	-	-	-	-	-	-	-	-

C. High Channel (5 240 ㎒)

Radiated Emissions			Ant.	Correction Factors			Total	FCC Limit	
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	AMP+ CL (dB)	Duty (dB)	Actual (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
10 477.54	36.61	Peak	H	37.66	-24.84	-	49.43	68.23	18.80
Above 10 500.00	Not detected	-	-	-	-	-	-	-	-

802.11a (Band 2A) _6 Mbps

A. Low Channel (5 260 ㎒)

Radiated Emissions			Ant.	Correction Factors			Total	FCC Limit	
Frequency (㎒)	Reading (dBμV)	Detect Mode	Pol.	AF (dB/m)	AMP+ CL (dB)	Duty (dB)	Actual (dBμV/m)	Limit (dBμV/m)	Margin (dB)
10 520.25	35.70	Peak	H	37.66	-24.93	-	48.43	68.23	19.80
Above 10 600.00	Not detected	-	-	-	-	-	-	-	-

B. Middle Channel (5 300 ㎒)

Radiated Emissions			Ant.	Correction Factors			Total	FCC Limit	
Frequency (㎒)	Reading (dBμV)	Detect Mode	Pol.	AF (dB/m)	AMP+ CL (dB)	Duty (dB)	Actual (dBμV/m)	Limit (dBμV/m)	Margin (dB)
*10 601.00	37.24	Peak	H	37.78	-25.03	-	49.99	74.00	24.01
*10 601.00	28.97	Average	H	37.78	-25.03	0.22	41.94	54.00	12.06
Above 10 700.00	Not detected	-	-	-	-	-	-	-	-

C. High Channel (5 320 ㎒)

Radiated Emissions			Ant.	Correction Factors			Total	FCC Limit	
Frequency (㎒)	Reading (dBμV)	Detect Mode	Pol.	AF (dB/m)	CL (dB)	Duty (dB)	Actual (dBμV/m)	Limit (dBμV/m)	Margin (dB)
*5 350.00	11.71	Peak	H	33.91	9.32	-	54.94	74.00	19.06
*5 350.00	4.23	Average	H	33.91	9.32	0.22	47.68	54.00	6.32
*5 353.19	15.34	Peak	H	33.93	9.33	-	58.60	74.00	15.40
*5 353.19	5.88	Average	H	33.93	9.33	0.22	49.36	54.00	4.64

Radiated Emissions			Ant.	Correction Factors			Total	FCC Limit	
Frequency (㎒)	Reading (dBμV)	Detect Mode	Pol.	AF (dB/m)	AMP+ CL (dB)	Duty (dB)	Actual (dBμV/m)	Limit (dBμV/m)	Margin (dB)
*10 642.75	38.41	Peak	H	37.84	-24.71	-	51.54	74.00	22.46
*10 642.75	28.67	Average	H	37.84	-24.71	0.22	42.02	54.00	11.98
Above 10 700.00	Not detected	-	-	-	-	-	-	-	-

802.11a (Band 2C) _6 Mbps

A. Low Channel (5 500 ㎒)

Radiated Emissions			Ant.	Correction Factors			Total	FCC Limit	
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	CL (dB)	Duty (dB)	Actual (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
*5 447.79	15.86	Peak	H	34.06	9.08	-	59.00	74.00	15.00
*5 447.79	7.17	Average	H	34.06	9.08	0.22	50.53	54.00	3.47
*5 460.00	14.43	Peak	H	34.05	9.12	-	57.60	74.00	16.40
*5 460.00	4.99	Average	H	34.05	9.12	0.22	48.38	54.00	5.62

Radiated Emissions			Ant.	Correction Factors			Total	FCC Limit	
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	AMP+ CL (dB)	Duty (dB)	Actual (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
*11 000.68	39.36	Peak	H	38.19	-24.29	-	53.26	74.00	20.74
*11 000.68	29.53	Average	H	38.19	-24.29	0.22	43.65	54.00	10.35
Above 11 100.00	Not detected	-	-	-	-	-	-	-	-

B. Middle Channel (5 580 ㎒)

Radiated Emissions			Ant.	Correction Factors			Total	FCC Limit	
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	AMP+ CL (dB)	Duty (dB)	Actual (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
*11 160.09	39.31	Peak	H	38.18	-24.23	-	53.26	74.00	20.74
*11 160.09	29.66	Average	H	38.18	-24.23	0.22	43.83	54.00	10.17
Above 11 200.00	Not detected	-	-	-	-	-	-	-	-

C. High Channel (5 700 ㎒)

Radiated Emissions			Ant.	Correction Factors			Total	FCC Limit	
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	AMP+ CL (dB)	Duty (dB)	Actual (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
*11 400.16	34.85	Peak	H	38.25	-23.78	-	49.32	74.00	24.68
*11 400.16	27.73	Average	H	38.25	-23.78	0.22	42.42	54.00	11.58
Above 11 500.00	Not detected	-	-	-	-	-	-	-	-

802.11an_HT20 (Band 1)_MCS0

A. Low Channel (5 180 ㎒)

Radiated Emissions			Ant.	Correction Factors			Total	FCC Limit	
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	CL (dB)	Duty (dB)	Actual (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
*4 863.35	18.35	Peak	H	33.03	9.13	-	60.51	74.00	13.49
*4 863.35	7.32	Average	H	33.03	9.13	0.27	49.75	54.00	4.25
*5 150.00	13.51	Peak	H	33.51	9.32	-	56.34	74.00	17.66
*5 150.00	5.27	Average	H	33.51	9.32	0.27	48.37	54.00	5.63

Radiated Emissions			Ant.	Correction Factors			Total	FCC Limit	
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	AMP+ CL (dB)	Duty (dB)	Actual (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
10 360.21	36.95	Peak	H	37.74	-24.50	-	50.19	68.23	18.04
Above 10 400.00	Not detected	-	-	-	-	-	-	-	-

B. Middle Channel (5 220 ㎒)

Radiated Emissions			Ant.	Correction Factors			Total	FCC Limit	
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	AMP+ CL (dB)	Duty (dB)	Actual (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
10 439.69	36.11	Peak	H	37.66	-24.72	-	49.05	68.23	19.18
Above 10 500.00	Not detected	-	-	-	-	-	-	-	-

C. High Channel (5 240 ㎒)

Radiated Emissions			Ant.	Correction Factors			Total	FCC Limit	
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	AMP+ CL (dB)	Duty (dB)	Actual (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
10 480.69	36.73	Peak	H	37.66	-24.85	-	49.54	68.23	18.69
Above 10 500.00	Not detected	-	-	-	-	-	-	-	-

802. 11an_HT20 (Band 2A)_MCS0

A. Low Channel (5 260 ㎒)

Radiated Emissions			Ant.	Correction Factors			Total	FCC Limit	
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	AMP+ CL (dB)	Duty (dB)	Actual (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
10 520.23	37.20	Peak	H	37.66	-24.93	-	49.93	68.23	18.30
Above 10 600.00	Not detected	-	-	-	-	-	-	-	-

B. Middle Channel (5 300 ㎒)

Radiated Emissions			Ant.	Correction Factors			Total	FCC Limit	
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	AMP+ CL (dB)	Duty (dB)	Actual (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
*10 600.20	37.10	Peak	H	37.78	-25.04	-	49.84	74.00	24.16
*10 600.20	28.23	Average	H	37.78	-25.04	0.27	41.24	54.00	12.76
Above 10 700.00	Not detected	-	-	-	-	-	-	-	-

C. High Channel (5 320 ㎒)

Radiated Emissions			Ant.	Correction Factors			Total	FCC Limit	
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	CL (dB)	Duty (dB)	Actual (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
*5 350.00	13.80	Peak	H	33.91	9.32	-	57.03	74.00	16.97
*5 350.00	4.25	Average	H	33.91	9.32	0.27	47.75	54.00	6.25
*5 357.26	16.15	Peak	H	33.95	9.35	-	59.45	74.00	14.55
*5 357.26	5.51	Average	H	33.95	9.35	0.27	49.08	54.00	4.92

Radiated Emissions			Ant.	Correction Factors			Total	FCC Limit	
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	AMP+ CL (dB)	Duty (dB)	Actual (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
*10 639.96	35.90	Peak	H	37.83	-24.73	-	49.00	74.00	25.00
*10 639.96	28.20	Average	H	37.83	-24.73	0.27	41.57	54.00	12.43
Above 10 700.00	Not detected	-	-	-	-	-	-	-	-

802. 11an_HT20 (Band 2C)_MCS0

A. Low Channel (5 500 ㎒)

Radiated Emissions			Ant.	Correction Factors			Total	FCC Limit	
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	CL (dB)	Duty (dB)	Actual (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
*5 448.34	15.65	Peak	H	34.06	9.07	-	58.78	74.00	15.22
*5 448.34	7.20	Average	H	34.06	9.07	0.27	50.60	54.00	3.40
*5 460.00	11.98	Peak	H	34.05	9.12	-	55.15	74.00	18.85
*5 460.00	5.15	Average	H	34.05	9.12	0.27	48.59	54.00	5.41

Radiated Emissions			Ant.	Correction Factors			Total	FCC Limit	
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	AMP+ CL (dB)	Duty (dB)	Actual (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
*10 999.90	36.58	Peak	H	38.19	-24.29	-	50.48	74.00	23.52
*10 999.90	28.75	Average	H	38.19	-24.29	0.27	42.92	54.00	11.08
Above 11 000.00	Not detected	-	-	-	-	-	-	-	-

B. Middle Channel (5 580 ㎒)

Radiated Emissions			Ant.	Correction Factors			Total	FCC Limit	
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	AMP+ CL (dB)	Duty (dB)	Actual (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
*11 159.94	37.52	Peak	H	38.18	-24.23	-	51.47	74.00	22.53
*11 159.94	29.16	Average	H	38.18	-24.23	0.27	43.38	54.00	10.62
Above 11 200.00	Not detected	-	-	-	-	-	-	-	-

C. High Channel (5 700 ㎒)

Radiated Emissions			Ant.	Correction Factors			Total	FCC Limit	
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	AMP+ CL (dB)	Duty (dB)	Actual (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
*11 400.20	34.79	Peak	H	38.25	-23.78	-	49.26	74.00	24.74
*11 400.20	27.90	Average	H	38.25	-23.78	0.27	42.64	54.00	11.36
Above 11 500.00	Not detected	-	-	-	-	-	-	-	-

802.11an_HT40 (Band 1) _MCS0

A. Low Channel (5 190 ㎒)

Radiated Emissions			Ant.	Correction Factors			Total	FCC Limit	
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	CL (dB)	Duty (dB)	Actual (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
*4 862.70	16.16	Peak	H	33.03	9.11	-	58.30	74.00	15.70
*4 862.70	7.41	Average	H	33.03	9.11	0.51	50.06	54.00	3.94
*5 150.00	12.94	Peak	H	33.51	9.32	-	55.77	74.00	18.23
*5 150.00	5.09	Average	H	33.51	9.32	0.51	48.43	54.00	5.57

Radiated Emissions			Ant.	Correction Factors			Total	FCC Limit	
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	AMP+ CL (dB)	Duty (dB)	Actual (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
10 379.91	36.05	Peak	H	37.73	-24.55	-	49.23	68.23	19.00
Above 10 400.00	Not detected	-	-	-	-	-	-	-	-

B. High Channel (5 230 ㎒)

Radiated Emissions			Ant.	Correction Factors			Total	FCC Limit	
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	AMP+ CL (dB)	Duty (dB)	Actual (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
10 460.35	35.00	Peak	H	37.70	-24.79	-	47.91	68.23	20.32
Above 10 500.00	Not detected	-	-	-	-	-	-	-	-

802. 11an_HT40 (Band 2A)_MCS0

A. Low Channel (5 270 ㎒)

Radiated Emissions			Ant.	Correction Factors			Total	FCC Limit	
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	AMP+ CL (dB)	Duty (dB)	Actual (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
10 539.78	34.59	Peak	H	37.72	-24.96	-	47.35	68.23	20.88
Above 10 600.00	Not detected	-	-	-	-	-	-	-	-

B. High Channel (5 310 ㎒)

Radiated Emissions			Ant.	Correction Factors			Total	FCC Limit	
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	CL (dB)	Duty (dB)	Actual (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
*5 350.00	13.17	Peak	H	33.91	9.32	-	56.40	74.00	17.60
*5 350.00	4.45	Average	H	33.91	9.32	0.51	48.19	54.00	5.81
*5 423.59	15.46	Peak	H	34.15	9.30	-	58.91	74.00	15.09
*5 423.59	5.45	Average	H	34.15	9.30	0.51	49.41	54.00	4.59

Radiated Emissions			Ant.	Correction Factors			Total	FCC Limit	
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	AMP+ CL (dB)	Duty (dB)	Actual (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
*10 619.93	34.42	Peak	H	37.81	-24.89	-	47.34	74.00	26.66
*10 619.93	26.71	Average	H	37.81	-24.89	0.51	40.14	54.00	13.86
Above 10 700.00	Not detected	-	-	-	-	-	-	-	-

802. 11an_HT40 (Band 2C)_MCS0

A. Low Channel (5 510 ㎒)

Radiated Emissions			Ant.	Correction Factors			Total	FCC Limit	
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	CL (dB)	Duty (dB)	Actual (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
*5 459.45	15.69	Peak	H	34.05	9.12	-	58.86	74.00	15.14
*5 459.45	5.72	Average	H	34.05	9.12	0.51	49.40	54.00	4.60
*5 460.00	13.65	Peak	H	34.05	9.12	-	56.82	74.00	17.18
*5 460.00	5.48	Average	H	34.05	9.12	0.51	49.16	54.00	4.84

Radiated Emissions			Ant.	Correction Factors			Total	FCC Limit	
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	AMP+ CL (dB)	Duty (dB)	Actual (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
*11 020.02	35.51	Peak	H	38.26	-24.26	-	49.51	74.00	24.49
*11 020.02	28.94	Average	H	38.26	-24.26	0.51	43.45	54.00	10.55
Above 11 100.00	Not detected	-	-	-	-	-	-	-	-

B. Middle Channel (5 550 ㎒)

Radiated Emissions			Ant.	Correction Factors			Total	FCC Limit	
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	AMP+ CL (dB)	Duty (dB)	Actual (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
*11 099.86	35.36	Peak	H	38.19	-24.12	-	49.43	74.00	24.57
*11 099.86	28.57	Average	H	38.19	-24.12	0.51	43.15	54.00	10.85
Above 11 100.00	Not detected	-	-	-	-	-	-	-	-

C. High Channel (5 670 ㎒)

Radiated Emissions			Ant.	Correction Factors			Total	FCC Limit	
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	AMP+ CL (dB)	Duty (dB)	Actual (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
*11 339.98	34.85	Peak	H	38.26	-24.19	-	48.92	74.00	25.08
*11 339.98	27.78	Average	H	38.26	-24.19	0.51	42.36	54.00	11.64
Above 11 400.00	Not detected	-	-	-	-	-	-	-	-

802.11ac_VHT20 (Band 1)_MCS0

A. Low Channel (5 180 ㎒)

Radiated Emissions			Ant.	Correction Factors			Total	FCC Limit	
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	CL (dB)	Duty (dB)	Actual (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
*4 844.50	17.04	Peak	H	32.89	8.78	-	58.71	74.00	15.29
*4 844.50	7.78	Average	H	32.89	8.78	0.46	49.91	54.00	4.09
*5 150.00	12.85	Peak	H	33.51	9.32	-	55.68	74.00	18.32
*5 150.00	5.23	Average	H	33.51	9.32	0.46	48.52	54.00	5.48

Radiated Emissions			Ant.	Correction Factors			Total	FCC Limit	
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	AMP+ CL (dB)	Duty (dB)	Actual (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
10 360.14	35.71	Peak	H	37.74	-24.50	-	48.95	68.23	19.28
Above 10 400.00	Not detected	-	-	-	-	-	-	-	-

B. Middle Channel (5 220 ㎒)

Radiated Emissions			Ant.	Correction Factors			Total	FCC Limit	
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	AMP+ CL (dB)	Duty (dB)	Actual (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
10 441.12	36.16	Peak	H	37.66	-24.72	-	49.10	68.23	19.13
Above 10 500.00	Not detected	-	-	-	-	-	-	-	-

C. High Channel (5 240 ㎒)

Radiated Emissions			Ant.	Correction Factors			Total	FCC Limit	
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	AMP+ CL (dB)	Duty (dB)	Actual (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
10 481.41	37.73	Peak	H	37.66	-24.85	-	50.54	68.23	17.69
Above 10 500.00	Not detected	-	-	-	-	-	-	-	-

802. 11ac_VHT20 (Band 2A)_MCS0

A. Low Channel (5 260 ㎒)

Radiated Emissions			Ant.	Correction Factors			Total	FCC Limit	
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	AMP+ CL (dB)	Duty (dB)	Actual (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
10 519.99	36.24	Peak	H	37.66	-24.93	-	48.97	68.23	19.26
Above 10 600.00	Not detected	-	-	-	-	-	-	-	-

B. Middle Channel (5 300 ㎒)

Radiated Emissions			Ant.	Correction Factors			Total	FCC Limit	
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	AMP+ CL (dB)	Duty (dB)	Actual (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
*10 601.78	37.85	Peak	H	37.78	-25.03	-	50.60	74.00	23.40
*10 601.78	28.16	Average	H	37.78	-25.03	0.46	41.37	54.00	12.63
Above 10 700.00	Not detected	-	-	-	-	-	-	-	-

C. High Channel (5 320 ㎒)

Radiated Emissions			Ant.	Correction Factors			Total	FCC Limit	
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	CL (dB)	Duty (dB)	Actual (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
*5 350.00	13.06	Peak	H	33.91	9.32	-	56.29	74.00	17.71
*5 350.00	4.32	Average	H	33.91	9.32	0.46	48.01	54.00	5.99
*5 371.89	15.37	Peak	H	34.14	9.40	-	58.91	74.00	15.09
*5 371.89	5.53	Average	H	34.14	9.40	0.46	49.53	54.00	4.47

Radiated Emissions			Ant.	Correction Factors			Total	FCC Limit	
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	AMP+ CL (dB)	Duty (dB)	Actual (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
*10 640.04	36.10	Peak	H	37.83	-24.73	-	49.20	74.00	24.80
*10 640.04	28.55	Average	H	37.83	-24.73	0.46	42.11	54.00	11.89
Above 10 700.00	Not detected	-	-	-	-	-	-	-	-

802. 11ac_VHT20 (Band 2C)_MCS0

A. Low Channel (5 500 ㎒)

Radiated Emissions			Ant.	Correction Factors			Total	FCC Limit	
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	CL (dB)	Duty (dB)	Actual (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
*5 448.67	15.74	Peak	H	34.06	9.07	-	58.87	74.00	15.13
*5 448.67	7.43	Average	H	34.06	9.07	0.46	51.02	54.00	2.98
*5 460.00	12.40	Peak	H	34.05	9.12	-	55.57	74.00	18.43
*5 460.00	4.72	Average	H	34.05	9.12	0.46	48.35	54.00	5.65

Radiated Emissions			Ant.	Correction Factors			Total	FCC Limit	
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	AMP+ CL (dB)	Duty (dB)	Actual (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
*11 000.20	37.02	Peak	H	38.19	-24.29	-	50.92	74.00	23.08
*11 000.20	28.72	Average	H	38.19	-24.29	0.46	43.08	54.00	10.92
Above 11 100.00	Not detected	-	-	-	-	-	-	-	-

B. Middle Channel (5 580 ㎒)

Radiated Emissions			Ant.	Correction Factors			Total	FCC Limit	
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	AMP+ CL (dB)	Duty (dB)	Actual (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
*11 160.09	37.33	Peak	H	38.18	-24.23	-	51.28	74.00	22.72
*11 160.09	29.32	Average	H	38.18	-24.23	0.46	43.73	54.00	10.27
Above 11 200.00	Not detected	-	-	-	-	-	-	-	-

C. High Channel (5 700 ㎒)

Radiated Emissions			Ant.	Correction Factors			Total	FCC Limit	
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	AMP+ CL (dB)	Duty (dB)	Actual (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
*11 400.04	35.65	Peak	H	38.25	-23.78	-	50.12	74.00	23.88
*11 400.04	28.05	Average	H	38.25	-23.78	0.46	42.98	54.00	11.02
Above 11 500.00	Not detected	-	-	-	-	-	-	-	-

802.11ac_VHT40 (Band 1) _MCS0

A. Low Channel (5 190 ㎒)

Radiated Emissions			Ant.	Correction Factors			Total	FCC Limit	
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	CL (dB)	Duty (dB)	Actual (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
*4 864.65	18.17	Peak	H	33.03	9.17	-	60.37	74.00	13.63
*4 864.65	7.70	Average	H	33.03	9.17	0.86	50.76	54.00	3.24
*5 150.00	11.43	Peak	H	33.51	9.32	-	54.26	74.00	19.74
*5 150.00	5.00	Average	H	33.51	9.32	0.86	48.69	54.00	5.31

Radiated Emissions			Ant.	Correction Factors			Total	FCC Limit	
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	AMP+ CL (dB)	Duty (dB)	Actual (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
10 379.97	36.18	Peak	H	37.73	-24.55	-	49.36	68.23	18.87
Above 10 400.00	Not detected	-	-	-	-	-	-	-	-

B. High Channel (5 230 ㎒)

Radiated Emissions			Ant.	Correction Factors			Total	FCC Limit	
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	AMP+ CL (dB)	Duty (dB)	Actual (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
10 460.37	34.54	Peak	H	37.70	-24.79	-	47.45	68.23	20.78
Above 10 500.00	Not detected	-	-	-	-	-	-	-	-

802. 11ac_VHT40 (Band 2A) _MCS0

A. Low Channel (5 270 ㎒)

Radiated Emissions			Ant.	Correction Factors			Total	FCC Limit	
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	AMP+ CL (dB)	Duty (dB)	Actual (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
10 540.15	34.48	Peak	H	37.72	-24.96	-	47.24	68.23	20.99
Above 10 600.00	Not detected	-	-	-	-	-	-	-	-

B. High Channel (5 310 ㎒)

Radiated Emissions			Ant.	Correction Factors			Total	FCC Limit	
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	CL (dB)	Duty (dB)	Actual (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
*5 350.00	13.96	Peak	H	33.91	9.32	-	57.19	74.00	16.81
*5 350.00	4.90	Average	H	33.91	9.32	0.86	48.99	54.00	5.01
*5 451.31	15.61	Peak	H	34.06	9.07	-	58.74	74.00	15.26
*5 451.31	5.66	Average	H	34.06	9.07	0.86	49.65	54.00	4.35

Radiated Emissions			Ant.	Correction Factors			Total	FCC Limit	
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	AMP+ CL (dB)	Duty (dB)	Actual (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
*10 620.50	34.61	Peak	H	37.81	-24.88	-	47.54	74.00	26.46
*10 620.50	26.59	Average	H	37.81	-24.88	0.86	40.38	54.00	13.62
Above 10 700.00	Not detected	-	-	-	-	-	-	-	-

802. 11ac_VHT40 (Band 2C) _MCS0

A. Low Channel (5 510 ㎒)

Radiated Emissions			Ant.	Correction Factors			Total	FCC Limit	
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	CL (dB)	Duty (dB)	Actual (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
*5 458.79	16.15	Peak	H	34.05	9.11	-	59.31	74.00	14.69
*5 458.79	5.76	Average	H	34.05	9.11	0.86	49.78	54.00	4.22
*5 460.00	13.65	Peak	H	34.05	9.12	-	56.82	74.00	17.18
*5 460.00	4.86	Average	H	34.05	9.12	0.86	48.89	54.00	5.11

Radiated Emissions			Ant.	Correction Factors			Total	FCC Limit	
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	AMP+ CL (dB)	Duty (dB)	Actual (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
*11 019.74	35.71	Peak	H	38.26	-24.26	-	49.71	74.00	24.29
*11 019.74	29.09	Average	H	38.26	-24.26	0.86	43.95	54.00	10.05
Above 11 100.00	Not detected	-	-	-	-	-	-	-	-

B. Middle Channel (5 550 ㎒)

Radiated Emissions			Ant.	Correction Factors			Total	FCC Limit	
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	AMP+ CL (dB)	Duty (dB)	Actual (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
*11 100.13	35.88	Peak	H	38.19	-24.12	-	49.95	74.00	24.05
*11 100.13	28.77	Average	H	38.19	-24.12	0.86	43.70	54.00	10.30
Above 11 200.00	Not detected	-	-	-	-	-	-	-	-

C. High Channel (5 670 ㎒)

Radiated Emissions			Ant.	Correction Factors			Total	FCC Limit	
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	AMP+ CL (dB)	Duty (dB)	Actual (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
*11 339.95	35.63	Peak	H	38.26	-24.19	-	49.70	74.00	24.30
*11 339.95	27.86	Average	H	38.26	-24.19	0.86	42.79	54.00	11.21
Above 11 400.00	Not detected	-	-	-	-	-	-	-	-

802.11ac_VHT80 (Band 1) _MCS0

A. Middle Channel (5 210 ㎒)

Radiated Emissions			Ant.	Correction Factors			Total	FCC Limit	
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	CL (dB)	Duty (dB)	Actual (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
*4 862.05	16.74	Peak	H	33.03	9.09	-	58.86	74.00	15.14
*4 862.05	7.39	Average	H	33.03	9.09	1.49	51.00	54.00	3.00
*5 150.00	12.70	Peak	H	33.51	9.32	-	55.53	74.00	18.47
*5 150.00	4.80	Average	H	33.51	9.32	1.49	49.12	54.00	4.88

Radiated Emissions			Ant.	Correction Factors			Total	FCC Limit	
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	AMP+ CL (dB)	Duty (dB)	Actual (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
10 419.58	35.20	Peak	H	37.70	-24.66	-	48.24	68.23	19.99
Above 10 500.00	Not detected	-	-	-	-	-	-	-	-

802. 11ac_VHT80 (Band 2A) _MCS0

A. Middle Channel (5 290 ㎒)

Radiated Emissions			Ant.	Correction Factors			Total	FCC Limit	
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	CL (dB)	Duty (dB)	Actual (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
*5 350.00	14.31	Peak	H	33.91	9.32	-	57.54	74.00	16.46
*5 350.00	4.93	Average	H	33.91	9.32	1.49	49.65	54.00	4.35
*5 375.52	16.18	Peak	H	34.16	9.42	-	59.76	74.00	14.24
*5 375.52	5.66	Average	H	34.16	9.42	1.49	50.73	54.00	3.27

Radiated Emissions			Ant.	Correction Factors			Total	FCC Limit	
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	AMP+ CL (dB)	Duty (dB)	Actual (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
10 580.02	36.05	Peak	H	37.76	-25.02	-	48.79	68.23	19.44
Above 10 600.00	Not detected	-	-	-	-	-	-	-	-

802. 11ac_VHT80 (Band 2C) _MCS0

A. Middle Channel (5 530 ㎒)

Radiated Emissions			Ant.	Correction Factors			Total	FCC Limit	
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	CL (dB)	Duty (dB)	Actual (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
*5 442.40	18.03	Peak	H	34.04	9.13	-	61.20	74.00	12.80
*5 442.40	6.93	Average	H	34.04	9.13	1.49	51.59	54.00	2.41
*5 460.00	19.64	Peak	H	34.05	9.12	-	62.81	74.00	11.19
*5 460.00	6.14	Average	H	34.05	9.12	1.49	50.80	54.00	3.20

Radiated Emissions			Ant.	Correction Factors			Total	FCC Limit	
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	AMP+ CL (dB)	Duty (dB)	Actual (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
*11 060.04	35.38	Peak	H	38.23	-24.19	-	49.42	74.00	24.58
*11 060.04	28.46	Average	H	38.23	-24.19	1.49	43.99	54.00	10.01
Above 11 100.00	Not detected	-	-	-	-	-	-	-	-

Remark:

1. "*" means the restricted band.
2. Radiated emissions measured in frequency above 1 000 ㎒ were made with an instrument using Peak / average detector mode if frequency was in restricted band. Otherwise the frequency was out of restricted band, only peak detector should be used.
3. Band edge measurement
   (Actual = Reading + Antenna Factor + CL + Duty cycle)
4. Radiated spurious emission measurement
   (Actual = Reading + Antenna Factor + Amp + CL + Duty cycle)
5. If frequency was out of restricted band, the calculation method for peak limit is same as below:
   68.23 dB㎶/m = EIRP – 20 log(d) + 104.77 = -27 – 20 log (3) + 104.77
   *distance: 3 m, *EIRP: -27 dB m/㎒

2.4.2.2. Battery Cover with charger

802.11a (Band 1) _6 Mbps

A. Low Channel (5 180 ㎒)

Radiated Emissions			Ant.	Correction Factors			Total	FCC Limit	
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	CL (dB)	Duty (dB)	Actual (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
*4 840.60	16.14	Peak	H	32.85	8.83	-	57.82	74.00	16.18
*4 840.60	6.56	Average	H	32.85	8.83	0.22	48.46	54.00	5.54
*5 150.00	12.95	Peak	H	33.51	9.32	-	55.78	74.00	18.22
*5 150.00	4.71	Average	H	33.51	9.32	0.22	47.76	54.00	6.24

Radiated Emissions			Ant.	Correction Factors			Total	FCC Limit	
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	AMP+ CL (dB)	Duty (dB)	Actual (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
10 360.14	35.74	Peak	H	37.74	-24.50	-	48.98	68.23	19.25
Above 10 400.00	Not detected	-	-	-	-	-	-	-	-

B. Middle Channel (5 220 ㎒)

Radiated Emissions			Ant.	Correction Factors			Total	FCC Limit	
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	AMP+ CL (dB)	Duty (dB)	Actual (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
10 441.37	38.20	Peak	H	37.66	-24.72	-	51.14	68.23	17.09
Above 10 500.00	Not detected	-	-	-	-	-	-	-	-

C. High Channel (5 240 ㎒)

Radiated Emissions			Ant.	Correction Factors			Total	FCC Limit	
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	AMP+ CL (dB)	Duty (dB)	Actual (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
10 477.21	36.10	Peak	H	37.66	-24.84	-	48.92	68.23	19.31
Above 10 500.00	Not detected	-	-	-	-	-	-	-	-

802.11a (Band 2A) _6 Mbps

A. Low Channel (5 260 ㎒)

Radiated Emissions			Ant.	Correction Factors			Total	FCC Limit	
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	AMP+ CL (dB)	Duty (dB)	Actual (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
10 521.38	36.03	Peak	H	37.66	-24.94	-	48.75	68.23	19.48
Above 10 600.00	Not detected	-	-	-	-	-	-	-	-

B. Middle Channel (5 300 ㎒)

Radiated Emissions			Ant.	Correction Factors			Total	FCC Limit	
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	AMP+ CL (dB)	Duty (dB)	Actual (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
10 601.10	37.11	Peak	H	37.78	-25.03	-	49.86	74.00	24.14
10 601.10	29.20	Average	H	37.78	-25.03	0.22	42.17	54.00	11.83
Above 10 700.00	Not detected	-	-	-	-	-	-	-	-

C. High Channel (5 320 ㎒)

Radiated Emissions			Ant.	Correction Factors			Total	FCC Limit	
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	CL (dB)	Duty (dB)	Actual (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
*5 350.00	12.00	Peak	H	33.91	9.32	-	55.23	74.00	18.77
*5 350.00	4.57	Average	H	33.91	9.32	0.22	48.02	54.00	5.98
*5 351.21	15.10	Peak	H	33.92	9.32	-	58.34	74.00	15.66
*5 351.21	5.28	Average	H	33.92	9.32	0.22	48.74	54.00	5.26

Radiated Emissions			Ant.	Correction Factors			Total	FCC Limit	
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	AMP+ CL (dB)	Duty (dB)	Actual (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
*10 642.03	38.14	Peak	H	37.84	-24.72	-	51.26	74.00	22.74
*10 642.03	28.13	Average	H	37.84	-24.72	0.22	41.47	54.00	12.53
Above 10 700.00	Not detected	-	-	-	-	-	-	-	-

802.11a (Band 2C) _6 Mbps

A. Low Channel (5 500 ㎒)

Radiated Emissions			Ant.	Correction Factors			Total	FCC Limit	
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	CL (dB)	Duty (dB)	Actual (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
*5 459.13	15.60	Peak	H	34.05	9.11	-	58.76	74.00	15.24
*5 459.13	6.20	Average	H	34.05	9.11	0.22	49.58	54.00	4.42
*5 460.00	14.15	Peak	H	34.05	9.12	-	57.32	74.00	16.68
*5 460.00	4.76	Average	H	34.05	9.12	0.22	48.15	54.00	5.85

Radiated Emissions			Ant.	Correction Factors			Total	FCC Limit	
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	AMP+ CL (dB)	Duty (dB)	Actual (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
*11 000.10	39.40	Peak	H	38.19	-24.29	-	53.30	74.00	20.70
*11 000.10	29.22	Average	H	38.19	-24.29	0.22	43.34	54.00	10.66
Above 11 100.00	Not detected	-	-	-	-	-	-	-	-

B. Middle Channel (5 580 ㎒)

Radiated Emissions			Ant.	Correction Factors			Total	FCC Limit	
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	AMP+ CL (dB)	Duty (dB)	Actual (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
*11 161.34	39.14	Peak	H	38.17	-24.23	-	53.08	74.00	20.92
*11 161.34	29.50	Average	H	38.17	-24.23	0.22	43.66	54.00	10.34
Above 11 200.00	Not detected	-	-	-	-	-	-	-	-

C. High Channel (5 700 ㎒)

Radiated Emissions			Ant.	Correction Factors			Total	FCC Limit	
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	AMP+ CL (dB)	Duty (dB)	Actual (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
*11 400.25	34.70	Peak	H	38.25	-23.78	-	49.17	74.00	24.83
*11 400.25	27.13	Average	H	38.25	-23.78	0.22	41.82	54.00	12.18
Above 11 500.00	Not detected	-	-	-	-	-	-	-	-

802.11an_HT20 (Band 1)_MCS0

A. Low Channel (5 180 ㎒)

Radiated Emissions			Ant.	Correction Factors			Total	FCC Limit	
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	CL (dB)	Duty (dB)	Actual (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
*4 833.35	17.95	Peak	H	32.81	8.91	-	59.67	74.00	14.33
*4 833.35	6.91	Average	H	32.81	8.91	0.27	48.90	54.00	5.10
*5 150.00	13.43	Peak	H	33.51	9.32	-	56.26	74.00	17.74
*5 150.00	5.16	Average	H	33.51	9.32	0.27	48.26	54.00	5.74

Radiated Emissions			Ant.	Correction Factors			Total	FCC Limit	
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	AMP+ CL (dB)	Duty (dB)	Actual (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
10 360.59	36.77	Peak	H	37.74	-24.51	-	50.00	68.23	18.23
Above 10 400.00	Not detected	-	-	-	-	-	-	-	-

B. Middle Channel (5 220 ㎒)

Radiated Emissions			Ant.	Correction Factors			Total	FCC Limit	
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	AMP+ CL (dB)	Duty (dB)	Actual (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
10 440.23	36.37	Peak	H	37.66	-24.72	-	49.31	68.23	18.92
Above 10 500.00	Not detected	-	-	-	-	-	-	-	-

C. High Channel (5 240 ㎒)

Radiated Emissions			Ant.	Correction Factors			Total	FCC Limit	
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	AMP+ CL (dB)	Duty (dB)	Actual (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
10 479.99	36.14	Peak	H	37.66	-24.85	-	48.95	68.23	19.28
Above 10 500.00	Not detected	-	-	-	-	-	-	-	-

802. 11an_HT20 (Band 2A)_MCS0

A. Low Channel (5 260 ㎒)

Radiated Emissions			Ant.	Correction Factors			Total	FCC Limit	
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	AMP+ CL (dB)	Duty (dB)	Actual (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
10 521.25	37.14	Peak	H	37.66	-24.94	-	49.86	68.23	18.37
Above 10 600.00	Not detected	-	-	-	-	-	-	-	-

B. Middle Channel (5 300 ㎒)

Radiated Emissions			Ant.	Correction Factors			Total	FCC Limit	
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	AMP+ CL (dB)	Duty (dB)	Actual (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
*10 600.37	37.15	Peak	H	37.78	-25.04	-	49.89	74.00	24.11
*10 600.37	28.10	Average	H	37.78	-25.04	0.27	41.11	54.00	12.89
Above 10 700.00	Not detected	-	-	-	-	-	-	-	-

C. High Channel (5 320 ㎒)

Radiated Emissions			Ant.	Correction Factors			Total	FCC Limit	
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	CL (dB)	Duty (dB)	Actual (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
*5 350.00	13.84	Peak	H	33.91	9.32	-	57.07	74.00	16.93
*5 350.00	4.59	Average	H	33.91	9.32	0.27	48.09	54.00	5.91
*5 455.38	16.20	Peak	H	34.05	9.09	-	59.34	74.00	14.66
*5 455.38	5.13	Average	H	34.05	9.09	0.27	48.54	54.00	5.46

Radiated Emissions			Ant.	Correction Factors			Total	FCC Limit	
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	AMP+ CL (dB)	Duty (dB)	Actual (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
*10 639.48	35.48	Peak	H	37.83	-24.74	-	48.57	74.00	25.43
*10 639.48	27.95	Average	H	37.83	-24.74	0.27	41.31	54.00	12.69
Above 10 700.00	Not detected	-	-	-	-	-	-	-	-

802. 11an_HT20 (Band 2C)_MCS0

A. Low Channel (5 500 ㎒)

Radiated Emissions			Ant.	Correction Factors			Total	FCC Limit	
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	CL (dB)	Duty (dB)	Actual (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
*5 448.23	15.11	Peak	H	34.06	9.08	-	58.25	74.00	15.75
*5 448.23	6.24	Average	H	34.06	9.08	0.27	49.65	54.00	4.35
*5 460.00	11.74	Peak	H	34.05	9.12	-	54.91	74.00	19.09
*5 460.00	4.15	Average	H	34.05	9.12	0.27	47.59	54.00	6.41

Radiated Emissions			Ant.	Correction Factors			Total	FCC Limit	
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	AMP+ CL (dB)	Duty (dB)	Actual (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
*10 999.23	36.40	Peak	H	38.20	-24.29	-	50.31	74.00	23.69
*10 999.23	28.64	Average	H	38.20	-24.29	0.27	42.82	54.00	11.18
Above 11 000.00	Not detected	-	-	-	-	-	-	-	-

B. Middle Channel (5 580 ㎒)

Radiated Emissions			Ant.	Correction Factors			Total	FCC Limit	
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	AMP+ CL (dB)	Duty (dB)	Actual (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
*11 158.74	37.13	Peak	H	38.18	-24.23	-	51.08	74.00	22.92
*11 158.74	29.30	Average	H	38.18	-24.23	0.27	43.52	54.00	10.48
Above 11 200.00	Not detected	-	-	-	-	-	-	-	-

C. High Channel (5 700 ㎒)

Radiated Emissions			Ant.	Correction Factors			Total	FCC Limit	
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	AMP+ CL (dB)	Duty (dB)	Actual (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
*11 401.23	34.33	Peak	H	38.25	-23.80	-	48.78	74.00	25.22
*11 401.23	27.83	Average	H	38.25	-23.80	0.27	42.55	54.00	11.45
Above 11 500.00	Not detected	-	-	-	-	-	-	-	-

802.11an_HT40 (Band 1) _MCS0

A. Low Channel (5 190 ㎒)

Radiated Emissions			Ant.	Correction Factors			Total	FCC Limit	
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	CL (dB)	Duty (dB)	Actual (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
*4 854.90	16.23	Peak	H	32.98	8.87	-	58.08	74.00	15.92
*4 854.90	6.83	Average	H	32.98	8.87	0.51	49.19	54.00	4.81
*5 150.00	12.73	Peak	H	33.51	9.32	-	55.56	74.00	18.44
*5 150.00	4.26	Average	H	33.51	9.32	0.51	47.60	54.00	6.40

Radiated Emissions			Ant.	Correction Factors			Total	FCC Limit	
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	AMP+ CL (dB)	Duty (dB)	Actual (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
10 380.03	36.11	Peak	H	37.73	-24.55	-	49.29	68.23	18.94
Above 10 400.00	Not detected	-	-	-	-	-	-	-	-

B. High Channel (5 230 ㎒)

Radiated Emissions			Ant.	Correction Factors			Total	FCC Limit	
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	AMP+ CL (dB)	Duty (dB)	Actual (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
10 461.22	35.09	Peak	H	37.70	-24.79	-	48.00	68.23	20.23
Above 10 500.00	Not detected	-	-	-	-	-	-	-	-

802. 11an_HT40 (Band 2A)_MCS0

A. Low Channel (5 270 ㎒)

Radiated Emissions			Ant.	Correction Factors			Total	FCC Limit	
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	AMP+ CL (dB)	Duty (dB)	Actual (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
10 540.23	34.28	Peak	H	37.72	-24.96	-	47.04	68.23	21.19
Above 10 600.00	Not detected	-	-	-	-	-	-	-	-

B. High Channel (5 310 ㎒)

Radiated Emissions			Ant.	Correction Factors			Total	FCC Limit	
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	CL (dB)	Duty (dB)	Actual (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
*5 350.00	13.22	Peak	H	33.91	9.32	-	56.45	74.00	17.55
*5 350.00	4.26	Average	H	33.91	9.32	0.51	48.00	54.00	6.00
*5 350.66	15.21	Peak	H	33.91	9.32	-	58.44	74.00	15.56
*5 350.66	5.22	Average	H	33.91	9.32	0.51	48.96	54.00	5.04

Radiated Emissions			Ant.	Correction Factors			Total	FCC Limit	
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	AMP+ CL (dB)	Duty (dB)	Actual (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
*10 620.38	34.44	Peak	H	37.81	-24.88	-	47.37	74.00	26.63
*10 620.38	26.73	Average	H	37.81	-24.88	0.51	40.17	54.00	13.83
Above 10 700.00	Not detected	-	-	-	-	-	-	-	-

802. 11an_HT40 (Band 2C)_MCS0

A. Low Channel (5 510 ㎒)

Radiated Emissions			Ant.	Correction Factors			Total	FCC Limit	
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	CL (dB)	Duty (dB)	Actual (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
*5 453.51	15.73	Peak	H	34.06	9.08	-	58.87	74.00	15.13
*5 453.51	5.51	Average	H	34.06	9.08	0.51	49.16	54.00	4.84
*5 460.00	13.60	Peak	H	34.05	9.12	-	56.77	74.00	17.23
*5 460.00	4.87	Average	H	34.05	9.12	0.51	48.55	54.00	5.45

Radiated Emissions			Ant.	Correction Factors			Total	FCC Limit	
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	AMP+ CL (dB)	Duty (dB)	Actual (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
*11 021.14	35.48	Peak	H	38.26	-24.25	-	49.49	74.00	24.51
*11 021.14	29.37	Average	H	38.26	-24.25	0.51	43.89	54.00	10.11
Above 11 100.00	Not detected	-	-	-	-	-	-	-	-

B. Middle Channel (5 550 ㎒)

Radiated Emissions			Ant.	Correction Factors			Total	FCC Limit	
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	AMP+ CL (dB)	Duty (dB)	Actual (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
*11 100.23	35.10	Peak	H	38.19	-24.12	-	49.17	74.00	24.83
*11 100.23	28.48	Average	H	38.19	-24.12	0.51	43.06	54.00	10.94
Above 11 200.00	Not detected	-	-	-	-	-	-	-	-

C. High Channel (5 670 ㎒)

Radiated Emissions			Ant.	Correction Factors			Total	FCC Limit	
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	AMP+ CL (dB)	Duty (dB)	Actual (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
11 340.51	34.29	Peak	H	38.26	-24.19	-	48.36	74.00	25.64
11 340.51	27.13	Average	H	38.26	-24.19	0.51	41.71	54.00	12.29
Above 11 400.00	Not detected	-	-	-	-	-	-	-	-

802.11ac_VHT20 (Band 1)_MCS0

A. Low Channel (5 180 ㎒)

Radiated Emissions			Ant.	Correction Factors			Total	FCC Limit	
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	CL (dB)	Duty (dB)	Actual (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
*4 860.75	16.98	Peak	H	33.03	9.05	-	59.06	74.00	14.94
*4 860.75	6.83	Average	H	33.03	9.05	0.46	49.37	54.00	4.63
*5 150.00	12.37	Peak	H	33.51	9.32	-	55.20	74.00	18.80
*5 150.00	4.80	Average	H	33.51	9.32	0.46	48.09	54.00	5.91

Radiated Emissions			Ant.	Correction Factors			Total	FCC Limit	
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	AMP+ CL (dB)	Duty (dB)	Actual (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
10 360.29	35.11	Peak	H	37.74	-24.50	-	48.35	68.23	19.88
Above 10 400.00	Not detected	-	-	-	-	-	-	-	-

B. Middle Channel (5 220 ㎒)

Radiated Emissions			Ant.	Correction Factors			Total	FCC Limit	
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	AMP+ CL (dB)	Duty (dB)	Actual (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
10 442.22	36.10	Peak	H	37.67	-24.73	-	49.04	68.23	19.19
Above 10 500.00	Not detected	-	-	-	-	-	-	-	-

C. High Channel (5 240 ㎒)

Radiated Emissions			Ant.	Correction Factors			Total	FCC Limit	
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	AMP+ CL (dB)	Duty (dB)	Actual (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
10 481.37	37.46	Peak	H	37.66	-24.85	-	50.27	68.23	17.96
Above 10 500.00	Not detected	-	-	-	-	-	-	-	-

802. 11ac_VHT20 (Band 2A)_MCS0

A. Low Channel (5 260 ㎒)

Radiated Emissions			Ant.	Correction Factors			Total	FCC Limit	
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	AMP+ CL (dB)	Duty (dB)	Actual (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
10 520.10	36.10	Peak	H	37.66	-24.93	-	48.83	68.23	19.40
Above 10 600.00	Not detected	-	-	-	-	-	-	-	-

B. Middle Channel (5 300 ㎒)

Radiated Emissions			Ant.	Correction Factors			Total	FCC Limit	
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	AMP+ CL (dB)	Duty (dB)	Actual (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
*10 601.83	38.03	Peak	H	37.78	-25.03	-	50.78	74.00	23.22
*10 601.83	28.37	Average	H	37.78	-25.03	0.46	41.58	54.00	12.42
Above 10 700.00	Not detected	-	-	-	-	-	-	-	-

C. High Channel (5 320 ㎒)

Radiated Emissions			Ant.	Correction Factors			Total	FCC Limit	
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	CL (dB)	Duty (dB)	Actual (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
*5 350.00	13.23	Peak	H	33.91	9.32	-	56.46	74.00	17.54
*5 350.00	4.62	Average	H	33.91	9.32	0.46	48.31	54.00	5.69
*5 449.44	15.22	Peak	H	34.06	9.07	-	58.35	74.00	15.65
*5 449.44	5.20	Average	H	34.06	9.07	0.46	48.79	54.00	5.21

Radiated Emissions			Ant.	Correction Factors			Total	FCC Limit	
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	AMP+ CL (dB)	Duty (dB)	Actual (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
*10 641.23	36.11	Peak	H	37.83	-24.72	-	49.22	74.00	24.78
*10 641.23	28.05	Average	H	37.83	-24.72	0.46	41.62	54.00	12.38
Above 10 700.00	Not detected	-	-	-	-	-	-	-	-

802. 11ac_VHT20 (Band 2C)_MCS0

A. Low Channel (5 500 ㎒)

Radiated Emissions			Ant.	Correction Factors			Total	FCC Limit	
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	CL (dB)	Duty (dB)	Actual (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
*5 448.12	15.66	Peak	H	34.06	9.08	-	58.80	74.00	15.20
*5 448.12	6.85	Average	H	34.06	9.08	0.46	50.45	54.00	3.55
*5 460.00	12.41	Peak	H	34.05	9.12	-	55.58	74.00	18.42
*5 460.00	4.37	Average	H	34.05	9.12	0.46	48.00	54.00	6.00

Radiated Emissions			Ant.	Correction Factors			Total	FCC Limit	
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	AMP+ CL (dB)	Duty (dB)	Actual (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
*11 000.34	37.22	Peak	H	38.19	-24.29	-	51.12	74.00	22.88
*11 000.34	29.03	Average	H	38.19	-24.29	0.46	43.39	54.00	10.61
Above 11 100.00	Not detected	-	-	-	-	-	-	-	-

B. Middle Channel (5 580 ㎒)

Radiated Emissions			Ant.	Correction Factors			Total	FCC Limit	
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	AMP+ CL (dB)	Duty (dB)	Actual (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
*11 161.23	35.29	Peak	H	38.18	-24.23	-	49.24	74.00	24.76
*11 161.23	28.36	Average	H	38.18	-24.23	0.46	42.77	54.00	11.23
Above 11 200.00	Not detected	-	-	-	-	-	-	-	-

C. High Channel (5 700 ㎒)

Radiated Emissions			Ant.	Correction Factors			Total	FCC Limit	
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	AMP+ CL (dB)	Duty (dB)	Actual (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
*11 401.09	35.43	Peak	H	38.25	-23.80	-	49.88	74.00	24.12
*11 401.09	27.14	Average	H	38.25	-23.80	0.46	42.05	54.00	11.95
Above 11 500.00	Not detected	-	-	-	-	-	-	-	-

802.11ac_VHT40 (Band 1) _MCS0

A. Low Channel (5 190 ㎒)

Radiated Emissions			Ant.	Correction Factors			Total	FCC Limit	
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	CL (dB)	Duty (dB)	Actual (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
*4 863.21	18.23	Peak	H	33.03	9.12	-	60.38	74.00	13.62
*4 863.21	7.23	Average	H	33.03	9.12	0.86	50.24	54.00	3.76
*5 150.00	11.37	Peak	H	33.51	9.32	-	54.20	74.00	19.80
*5 150.00	4.83	Average	H	33.51	9.32	0.86	48.52	54.00	5.48

Radiated Emissions			Ant.	Correction Factors			Total	FCC Limit	
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	AMP+ CL (dB)	Duty (dB)	Actual (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
10 380.02	36.37	Peak	H	37.73	-24.55	-	49.55	68.23	18.68
Above 10 400.00	Not detected	-	-	-	-	-	-	-	-

B. High Channel (5 230 ㎒)

Radiated Emissions			Ant.	Correction Factors			Total	FCC Limit	
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	AMP+ CL (dB)	Duty (dB)	Actual (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
10 460.56	34.49	Peak	H	37.70	-24.79	-	47.40	68.23	20.83
Above 10 500.00	Not detected	-	-	-	-	-	-	-	-

802. 11ac_VHT40 (Band 2A) _MCS0

A. Low Channel (5 270 ㎒)

Radiated Emissions			Ant.	Correction Factors			Total	FCC Limit	
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	AMP+ CL (dB)	Duty (dB)	Actual (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
10 540.62	33.25	Peak	H	37.72	-24.96	-	46.01	68.23	22.22
Above 10 600.00	Not detected	-	-	-	-	-	-	-	-

B. High Channel (5 310 ㎒)

Radiated Emissions			Ant.	Correction Factors			Total	FCC Limit	
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	CL (dB)	Duty (dB)	Actual (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
*5 350.00	13.45	Peak	H	33.91	9.32	-	56.68	74.00	17.32
*5 350.00	4.78	Average	H	33.91	9.32	0.86	48.87	54.00	5.13
*5 423.27	15.30	Peak	H	34.15	9.30	-	58.75	74.00	15.25
*5 423.27	5.67	Average	H	34.15	9.30	0.86	49.98	54.00	4.02

Radiated Emissions			Ant.	Correction Factors			Total	FCC Limit	
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	AMP+ CL (dB)	Duty (dB)	Actual (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
*10 620.39	34.53	Peak	H	37.81	-24.88	-	47.46	74.00	26.54
*10 620.39	26.48	Average	H	37.81	-24.88	0.86	40.27	54.00	13.73
Above 10 700.00	Not detected	-	-	-	-	-	-	-	-

802. 11ac_VHT40 (Band 2C) _MCS0

A. Low Channel (5 510 ㎒)

Radiated Emissions			Ant.	Correction Factors			Total	FCC Limit	
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	CL (dB)	Duty (dB)	Actual (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
*5 460.14	16.00	Peak	H	34.05	9.12	-	59.17	74.00	14.83
*5 460.14	5.83	Average	H	34.05	9.12	0.86	49.86	54.00	4.14
*5 460.00	13.43	Peak	H	34.05	9.12	-	56.60	74.00	17.40
*5 460.00	4.77	Average	H	34.05	9.12	0.86	48.80	54.00	5.20

Radiated Emissions			Ant.	Correction Factors			Total	FCC Limit	
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	AMP+ CL (dB)	Duty (dB)	Actual (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
*11 019.23	35.11	Peak	H	38.26	-24.26	-	49.11	74.00	24.89
*11 019.23	29.40	Average	H	38.26	-24.26	0.86	44.26	54.00	9.74
Above 11 100.00	Not detected	-	-	-	-	-	-	-	-

B. Middle Channel (5 550 ㎒)

Radiated Emissions			Ant.	Correction Factors			Total	FCC Limit	
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	AMP+ CL (dB)	Duty (dB)	Actual (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
*11 100.37	35.40	Peak	H	38.19	-24.12	-	49.47	74.00	24.53
*11 100.37	28.14	Average	H	38.19	-24.12	0.86	43.07	54.00	10.93
Above 11 200.00	Not detected	-	-	-	-	-	-	-	-

C. High Channel (5 670 ㎒)

Radiated Emissions			Ant.	Correction Factors			Total	FCC Limit	
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	AMP+ CL (dB)	Duty (dB)	Actual (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
*11 340.23	35.40	Peak	H	38.26	-24.19	-	49.47	74.00	24.53
*11 340.23	27.44	Average	H	38.26	-24.19	0.86	42.37	54.00	11.63
Above 11 400.00	Not detected	-	-	-	-	-	-	-	-

802.11ac_VHT80 (Band 1) _MCS0

A. Middle Channel (5 210 ㎒)

Radiated Emissions			Ant.	Correction Factors			Total	FCC Limit	
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	CL (dB)	Duty (dB)	Actual (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
*4 855.23	16.23	Peak	H	32.99	8.88	-	58.10	74.00	15.90
*4 855.23	7.13	Average	H	32.99	8.88	1.49	50.49	54.00	3.51
*5 150.00	12.38	Peak	H	33.51	9.32	-	55.21	74.00	18.79
*5 150.00	4.59	Average	H	33.51	9.32	1.49	48.91	54.00	5.09

Radiated Emissions			Ant.	Correction Factors			Total	FCC Limit	
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	AMP+ CL (dB)	Duty (dB)	Actual (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
10 420.23	35.14	Peak	H	37.70	-24.66	-	48.18	68.23	20.05
Above 10 500.00	Not detected	-	-	-	-	-	-	-	-

802. 11ac_VHT80 (Band 2A) _MCS0

A. Middle Channel (5 290 ㎒)

Radiated Emissions			Ant.	Correction Factors			Total	FCC Limit	
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	CL (dB)	Duty (dB)	Actual (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
*5 350.00	14.11	Peak	H	33.91	9.32	-	57.34	74.00	16.66
*5 350.00	4.77	Average	H	33.91	9.32	1.49	49.49	54.00	4.51
*5 378.14	15.93	Peak	H	34.17	9.43	-	59.53	74.00	14.47
*5 378.14	5.71	Average	H	34.17	9.43	1.49	50.80	54.00	3.20

Radiated Emissions			Ant.	Correction Factors			Total	FCC Limit	
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	AMP+ CL (dB)	Duty (dB)	Actual (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
10 580.37	35.33	Peak	H	37.76	-25.02	-	48.07	68.23	20.16
Above 10 600.00	Not detected	-	-	-	-	-	-	-	-

802. 11ac_VHT80 (Band 2C) _MCS0

A. Middle Channel (5 530 ㎒)

Radiated Emissions			Ant.	Correction Factors			Total	FCC Limit	
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	CL (dB)	Duty (dB)	Actual (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
*5 445.72	17.83	Peak	H	34.05	9.10	-	60.98	74.00	13.02
*5 445.72	6.66	Average	H	34.05	9.10	1.49	51.30	54.00	2.70
*5 460.00	19.25	Peak	H	34.05	9.12	-	62.42	74.00	11.58
*5 460.00	6.23	Average	H	34.05	9.12	1.49	50.89	54.00	3.11

Radiated Emissions			Ant.	Correction Factors			Total	FCC Limit	
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	AMP+ CL (dB)	Duty (dB)	Actual (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
*11 060.99	35.14	Peak	H	38.23	-24.19	-	49.18	74.00	24.82
*11 060.99	29.00	Average	H	38.23	-24.19	1.49	44.53	54.00	9.47
Above 11 100.00	Not detected	-	-	-	-	-	-	-	-

Remark:

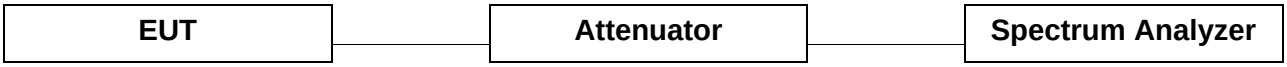
1. "*" means the restricted band.
2. Radiated emissions measured in frequency above 1 000 ㎒ were made with an instrument using Peak / average detector mode if frequency was in restricted band. Otherwise the frequency was out of restricted band, only peak detector should be used.
3. Band edge measurement
   (Actual = Reading + Antenna Factor + CL + Duty cycle)
4. Radiated spurious emission measurement
   (Actual = Reading + Antenna Factor + Amp + CL + Duty cycle)
5. If frequency was out of restricted band, the calculation method for peak limit is same as below:

   68.23 dB㎶/m = EIRP – 20 log(d) + 104.77 = -27 – 20 log (3) + 104.77

   *distance: 3 m, *EIRP: -27 dB m/㎒
6. Measurement with wireless charger was performed during actual charging condition.

3. 26 ㏈ bandwidth

3.1. Test setup



3.3. Test procedure

All data rates and modes were investigated for this test. The full data for the worst case data rate are reported in this section.

3.3.1. 26 ㏈ Bandwidth

1. This measurement settings are specified in section C) of KDB 789033_v01r03.
2. Set RBW: approximately 1% of the emission bandwidth.
3. Set the VBW > RBW.
4. Detector = Peak
5. Trace mode = max hold.
6. Measure the maximum width of the emission that is 26 ㏈ down from the peak 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 %

Note: The automatic bandwidth measurement capability of a spectrum analyzer or EMI receiver may be employed if it implements the functionality described above.

According to KDB 644545 D01 v01r02 and 15.215(c), 20 ㏈ bandwidth measurement were investigated to check whether a single emission is within a particular band or not.
In addition, the 20 ㏈ bandwidth plots were reported at the end of this section.

In the result,
- DFS requirements are not applicable in the 5 150 ㎒– 5 250 ㎒
- No emission is within the 5 600 ㎒– 5 650 ㎒ TDWR band

3.4. Test result

Ambient temperature : (24 ± 2) ℃
Relative humidity : 49 % R.H.

3.4.1. 26 dB Bandwidth

Band	Mode	Frequency (㎒)	Ch.	Data Rate	26 dB Bandwidth (㎒)
U-NII 1	11a	5 180	36	6	21.57
		5 220	44	6	21.65
		5 240	48	6	21.78
	11an_HT20	5 180	36	MCS0	22.05
		5 220	44	MCS0	22.16
		5 240	48	MCS0	21.99
	11an_HT40	5 190	38	MCS0	42.96
		5 230	46	MCS0	43.36
	11ac_VHT20	5 180	36	MCS0	21.79
		5 220	44	MCS0	21.59
		5 240	48	MCS0	21.85
	11ac_VHT40	5 190	38	MCS0	42.06
		5 230	46	MCS0	41.81
	11ac_VHT80	5 210	42	MCS0	84.22
U-NII 2A	11a	5 260	52	6	21.29
		5 300	60	6	21.93
		5 320	64	6	21.60
	11an_HT20	5 260	52	MCS0	22.11
		5 300	60	MCS0	21.99
		5 320	64	MCS0	21.98
	11an_HT40	5 270	54	MCS0	42.74
		5 310	62	MCS0	42.14
	11ac_VHT20	5 260	52	MCS0	21.77
		5 300	60	MCS0	21.94
		5 320	64	MCS0	21.88
	11ac_VHT40	5 270	54	MCS0	41.88
		5 310	62	MCS0	42.22
	11ac_VHT80	5 290	58	MCS0	82.53
U-NII 2C	11a	5 500	100	6	21.53
		5 580	116	6	21.80
		5 700	140	6	21.61
	11an_HT20	5 500	100	MCS0	22.08
		5 580	116	MCS0	22.24
		5 700	140	MCS0	22.04
	11an_HT40	5 510	102	MCS0	43.47
		5 550	110	MCS0	42.68
		5 670	134	MCS0	42.70
	11ac_VHT20	5 500	100	MCS0	21.79
		5 580	116	MCS0	21.81
		5 700	140	MCS0	21.89
	11ac_VHT40	5 510	102	MCS0	42.18
		5 550	110	MCS0	41.68
		5 670	134	MCS0	41.74
	11ac_VHT80	5 530	106	MCS0	83.35

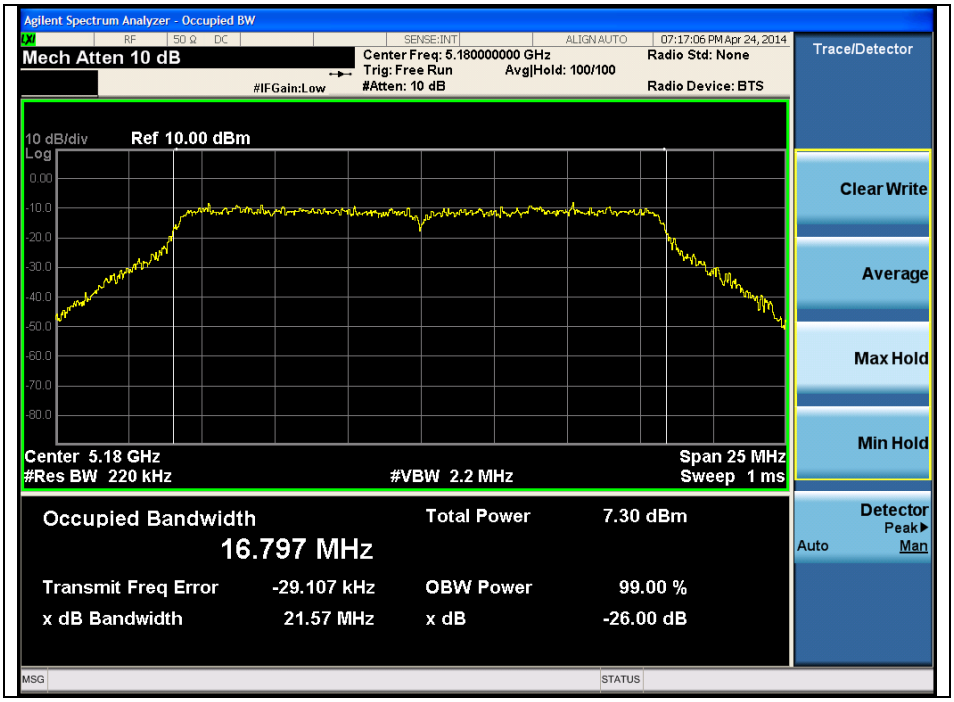
3.4.2. 20 dB Bandwidth

Band	Mode	Frequency (㎒)	Ch.	Data Rate	20 dB Bandwidth (㎒)
U-NII 1	11a	5 240	48	6	19.43
	11an_HT20	5 240	48	MCS0	19.88
	11an_HT40	5 230	46	MCS0	39.47
	11ac_VHT20	5 240	48	MCS0	19.62
	11ac_VHT40	5 230	46	MCS0	38.52
	11ac_VHT80	5 210	42	MCS0	79.05
U-NII 2C	11a	5 580	116	6	19.48
		5 660	132	6	19.51
	11n_HT20	5 580	116	MCS0	19.84
		5 660	132	MCS0	19.87
	11n_HT40	5 550	110	MCS0	38.53
		5 670	134	MCS0	39.02
	11ac_VHT20	5 580	116	MCS0	19.56
		5 660	132	MCS0	19.68
	11ac_VHT40	5 550	110	MCS0	38.67
		5 670	134	MCS0	38.78
	11ac_VHT80	5 530	106	MCS0	79.29

26 dB Bandwidth

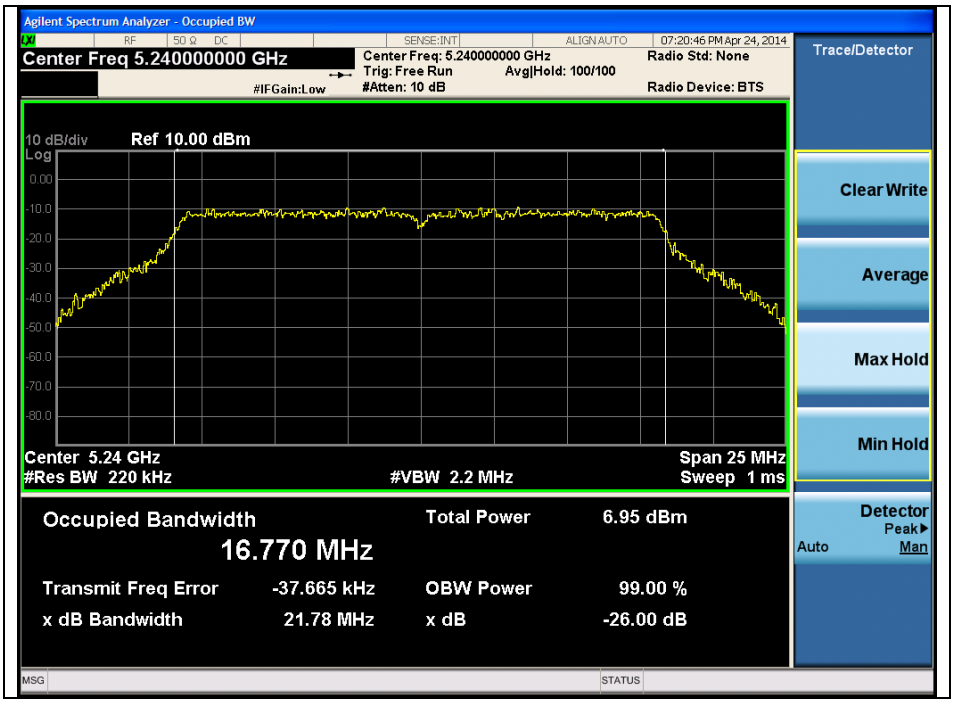
802.11a (Band 1)

Low Channel (5 180 ㎒)



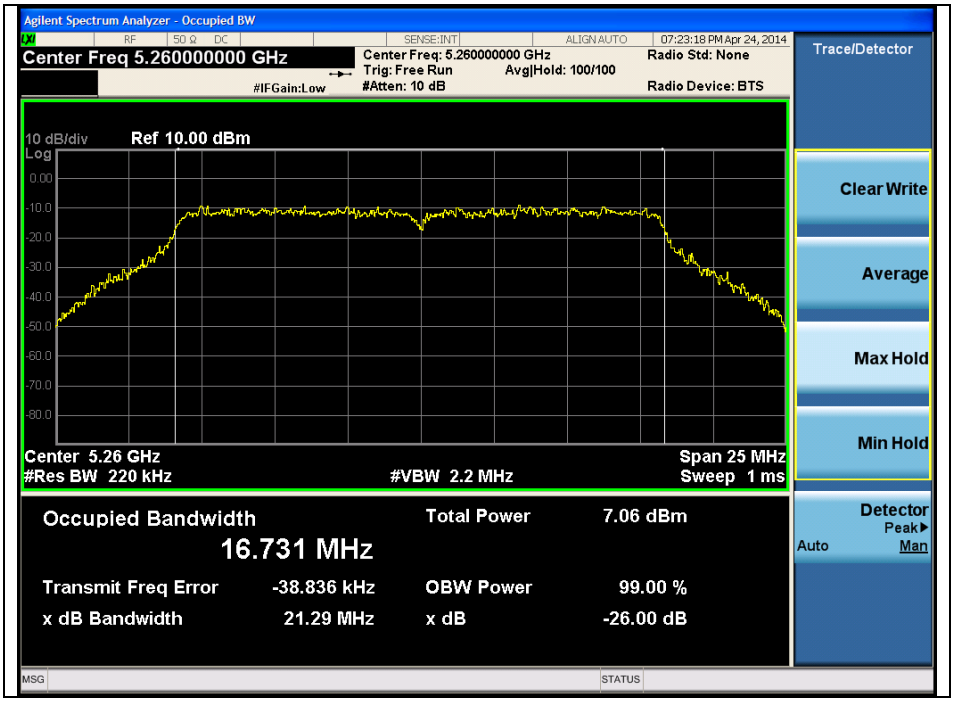
Middle Channel (5 220 ㎒)

High Channel (5 240 ㎒)

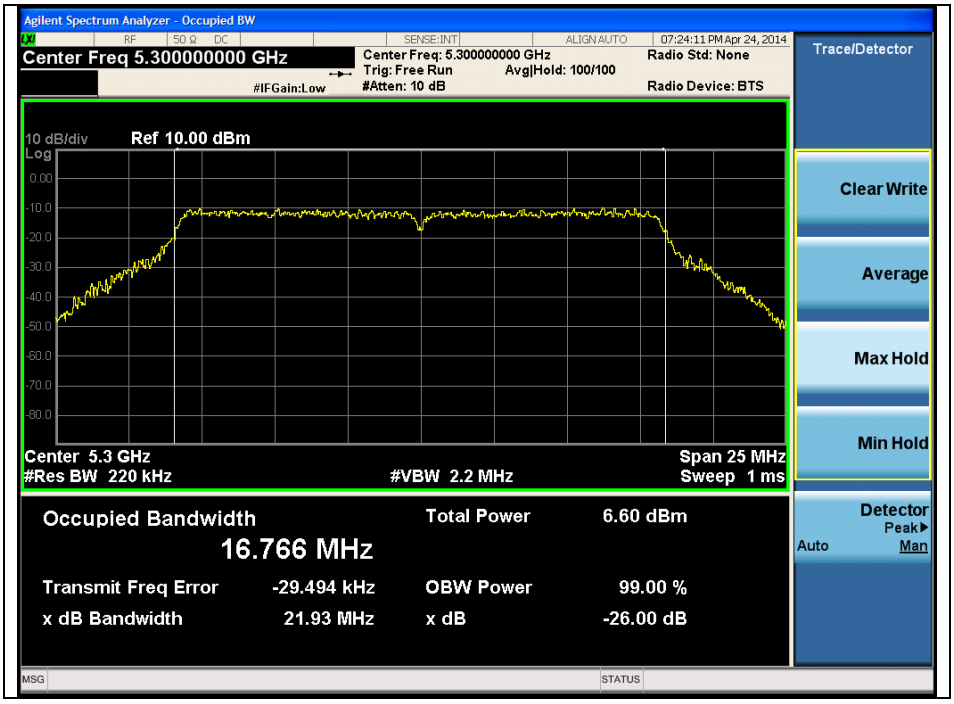


802.11a (Band 2A)

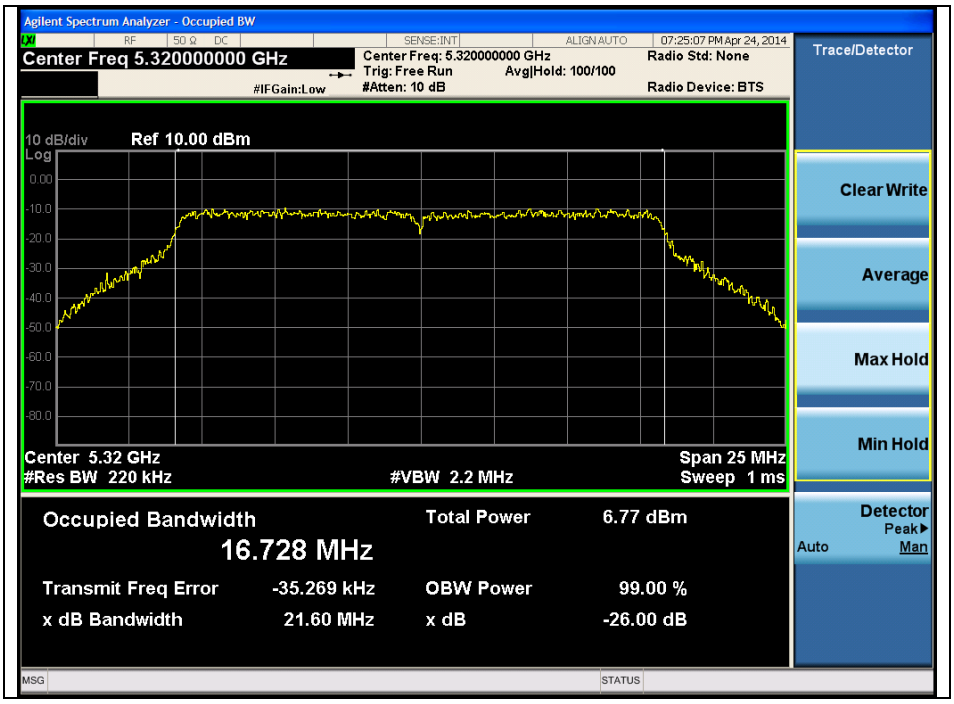
Low Channel (5 260 ㎒)



Middle Channel (5 300 ㎒)

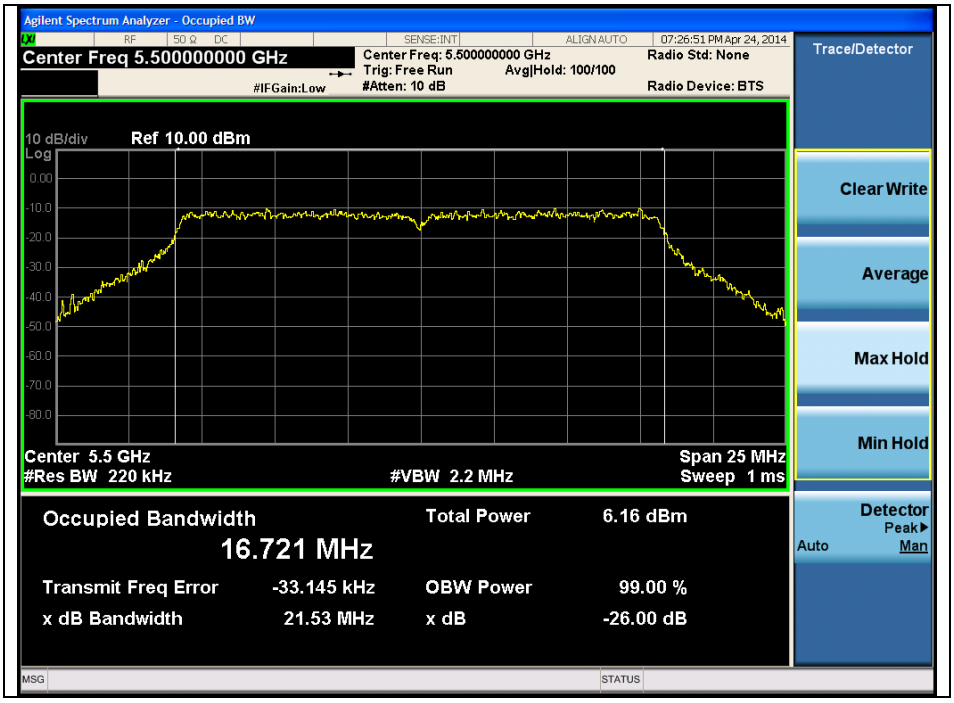


High Channel (5 320 ㎒)

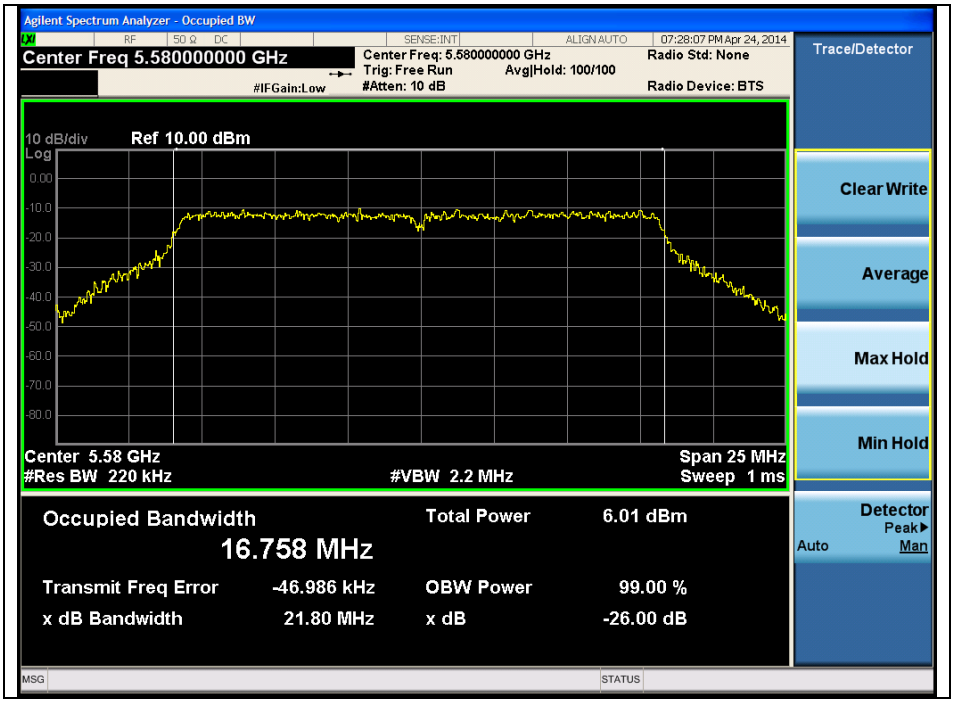


802.11a (Band 2C)

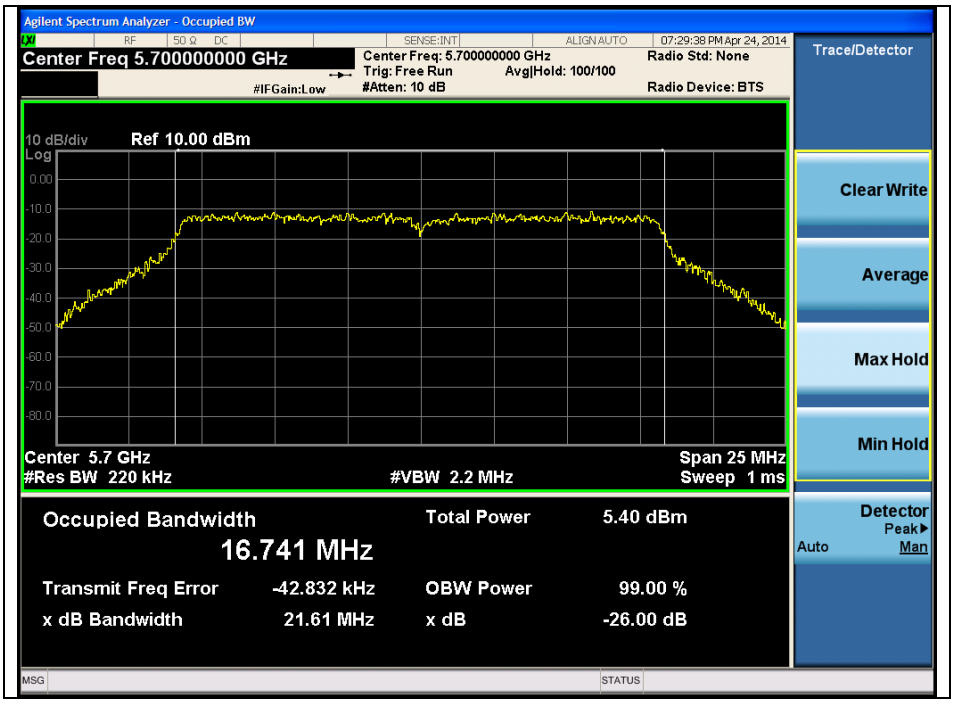
Low Channel (5 500 ㎒)



Middle Channel (5 580 ㎒)

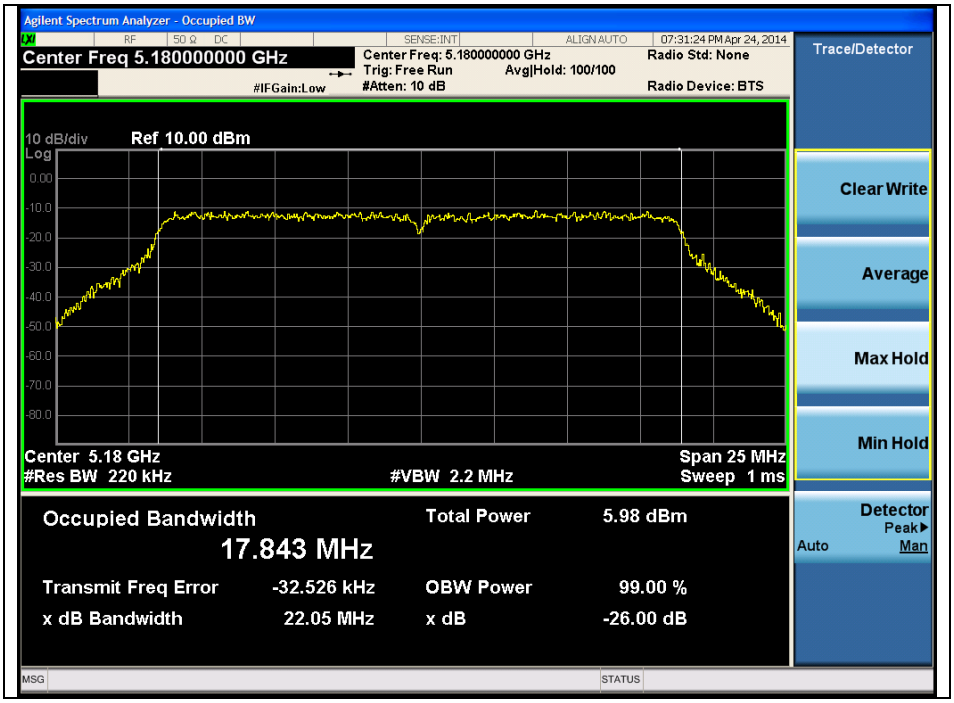


High Channel (5 700 ㎒)

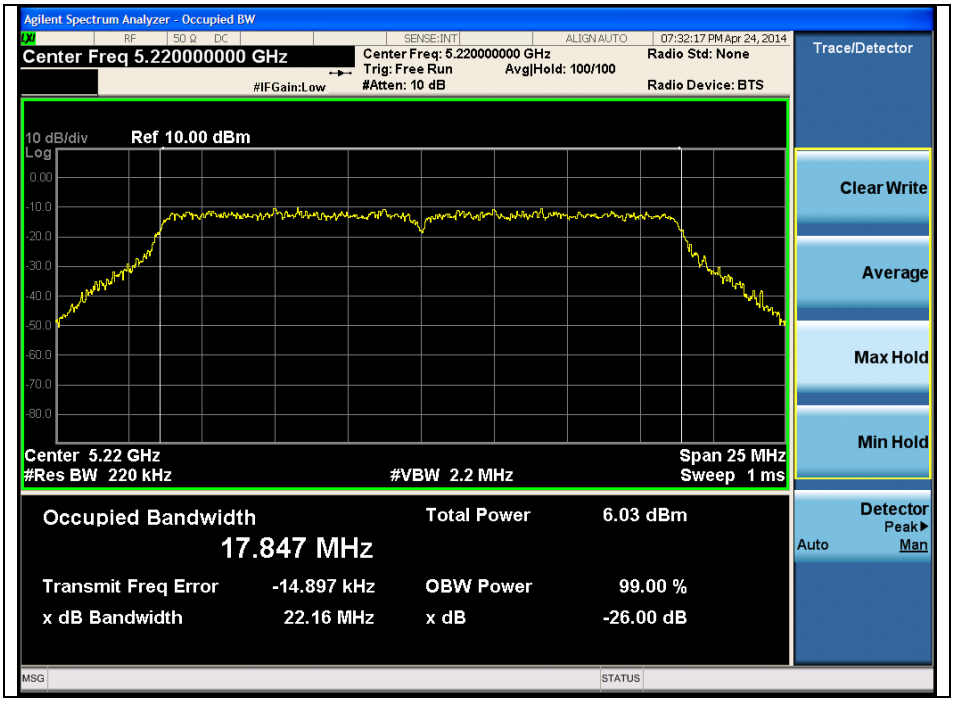


802.11n_HT20 (Band 1)

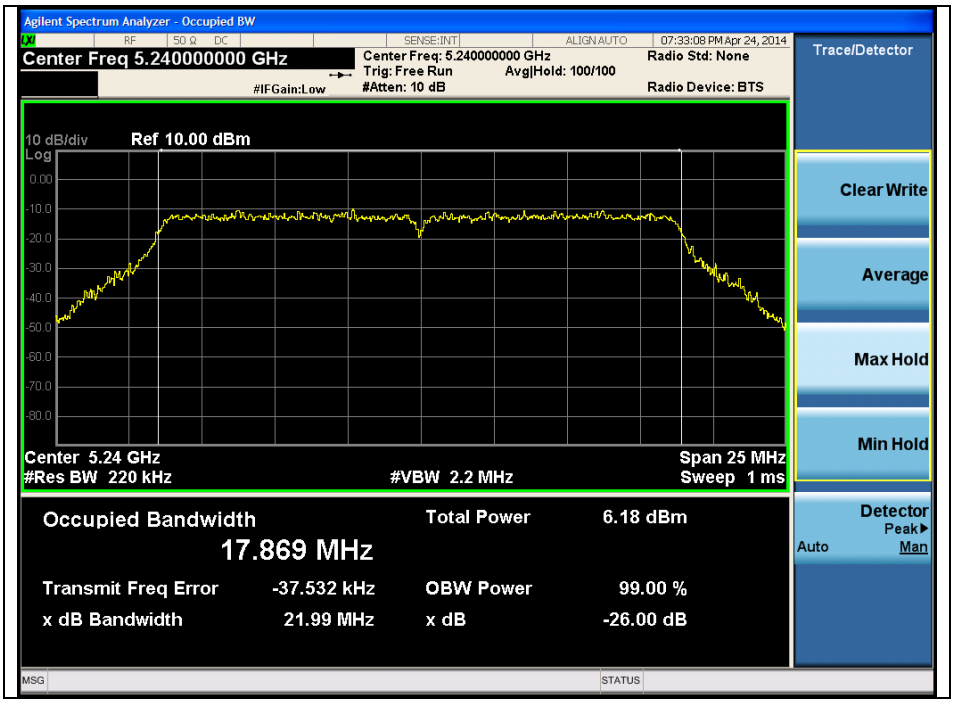
Low Channel (5 180 ㎒)



Middle Channel (5 220 ㎒)

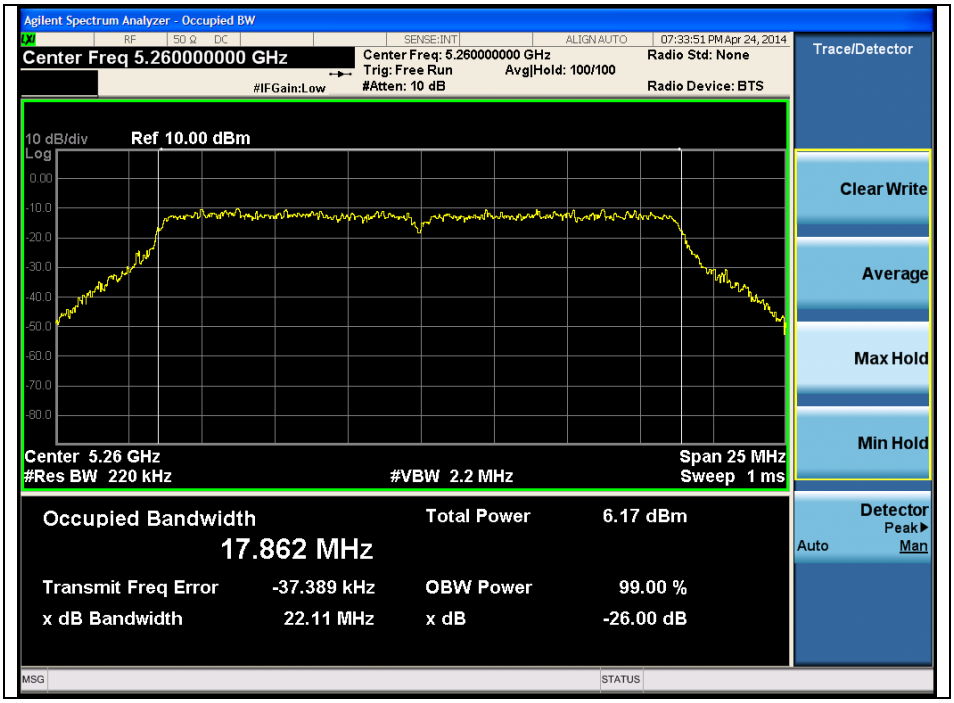


High Channel (5 240 ㎒)

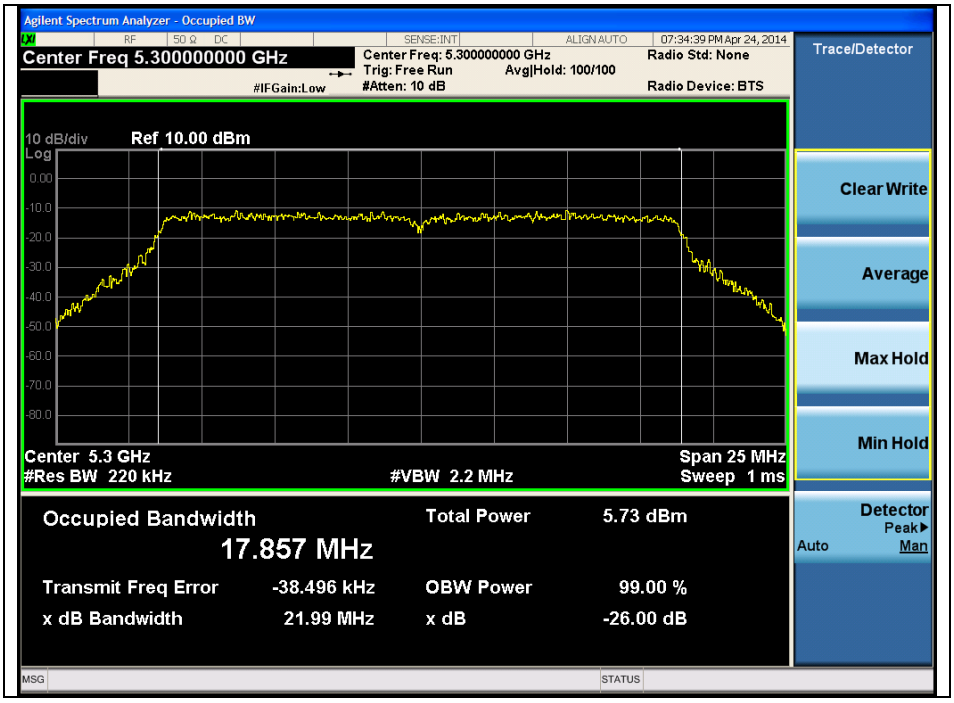


802.11n_HT20 (Band 2A)

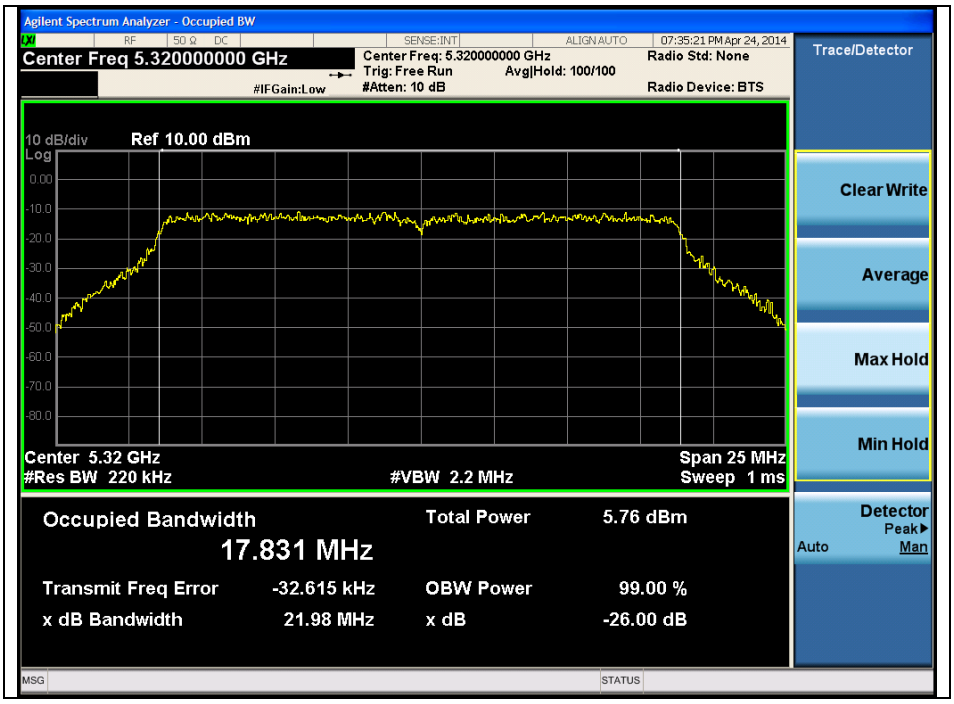
Low Channel (5 260 ㎒)



Middle Channel (5 300 ㎒)

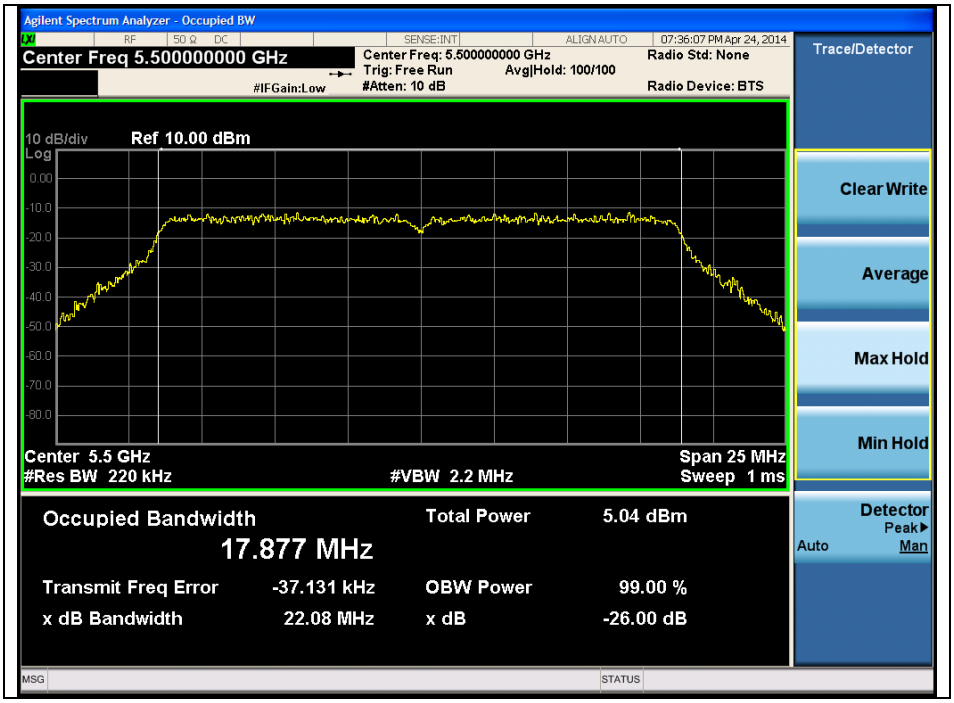


High Channel (5 320 ㎒)

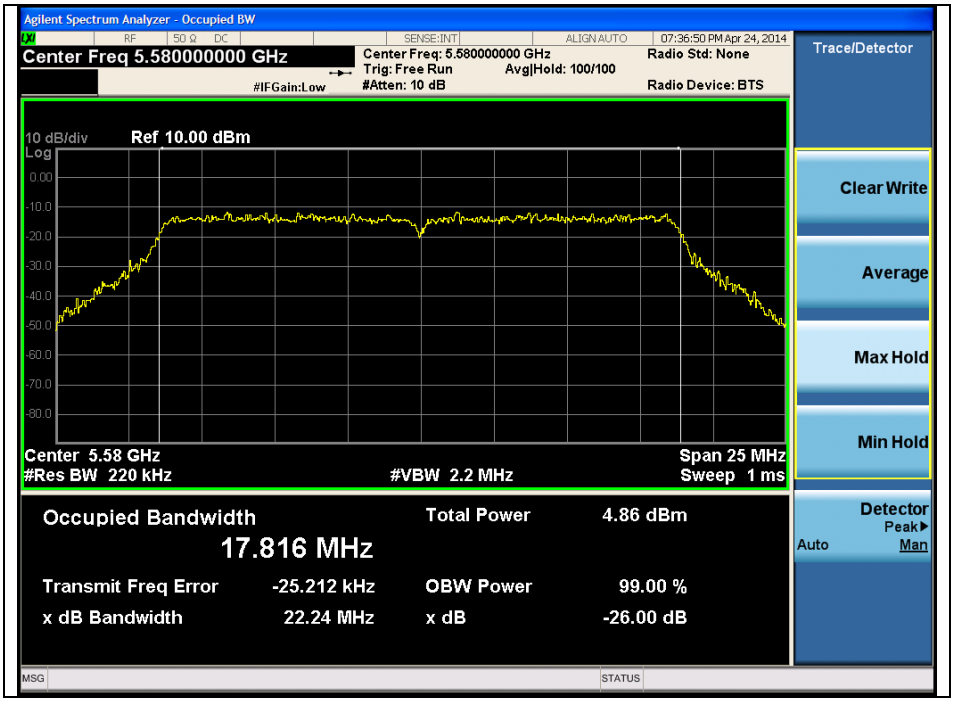


802.11n_HT20 (Band 2C)

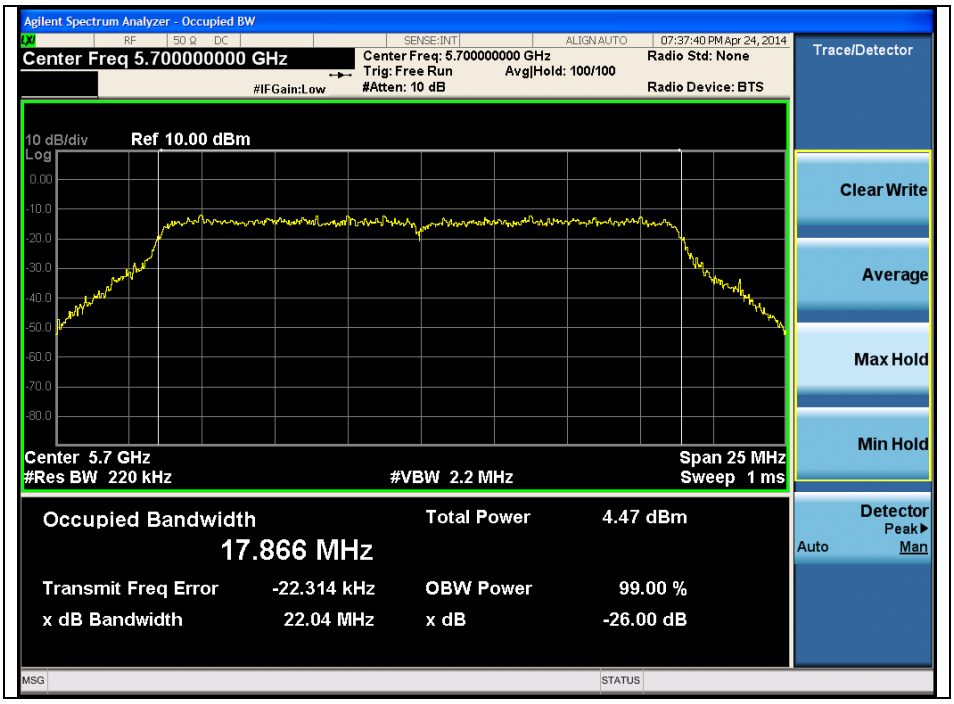
Low Channel (5 500 ㎒)



Middle Channel (5 580 ㎒)

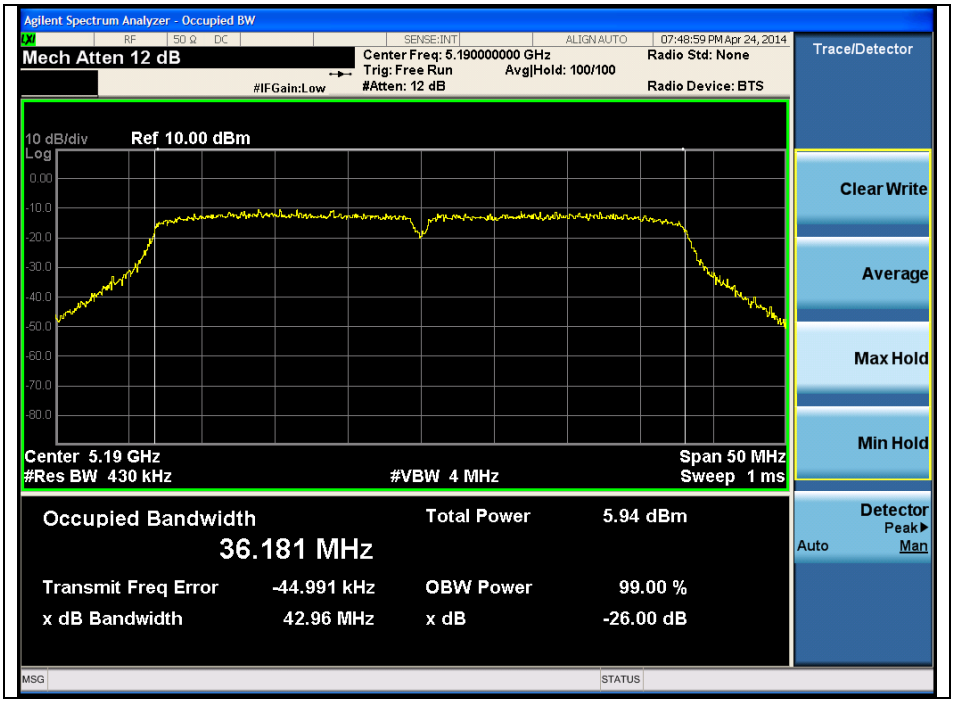


High Channel (5 700 ㎒)

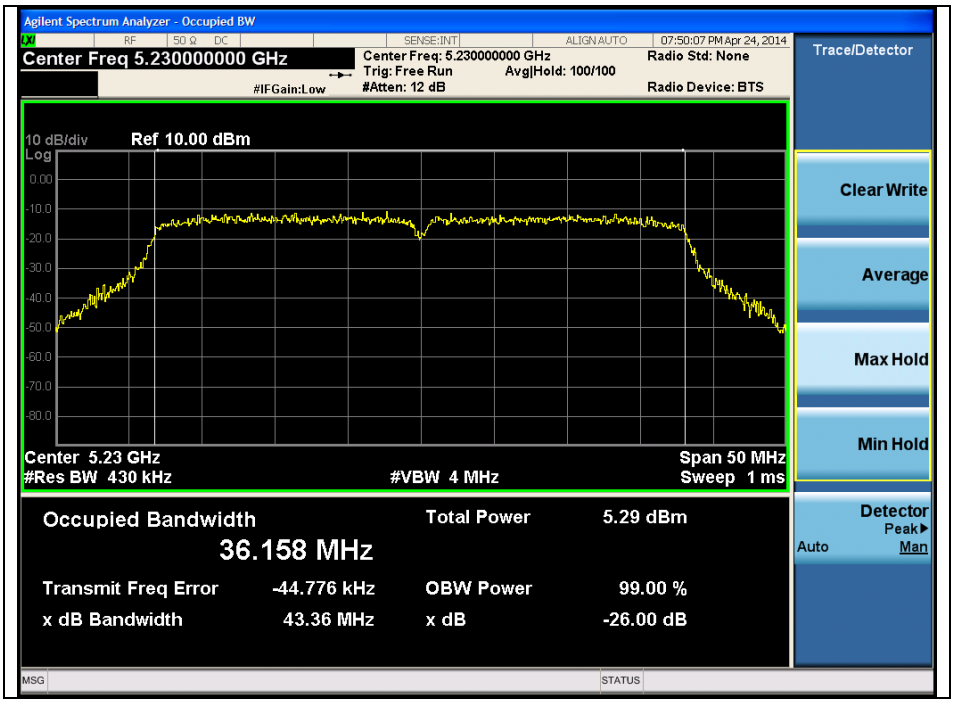


802.11n_HT40 (Band 1)

Low Channel (5 190 ㎒)

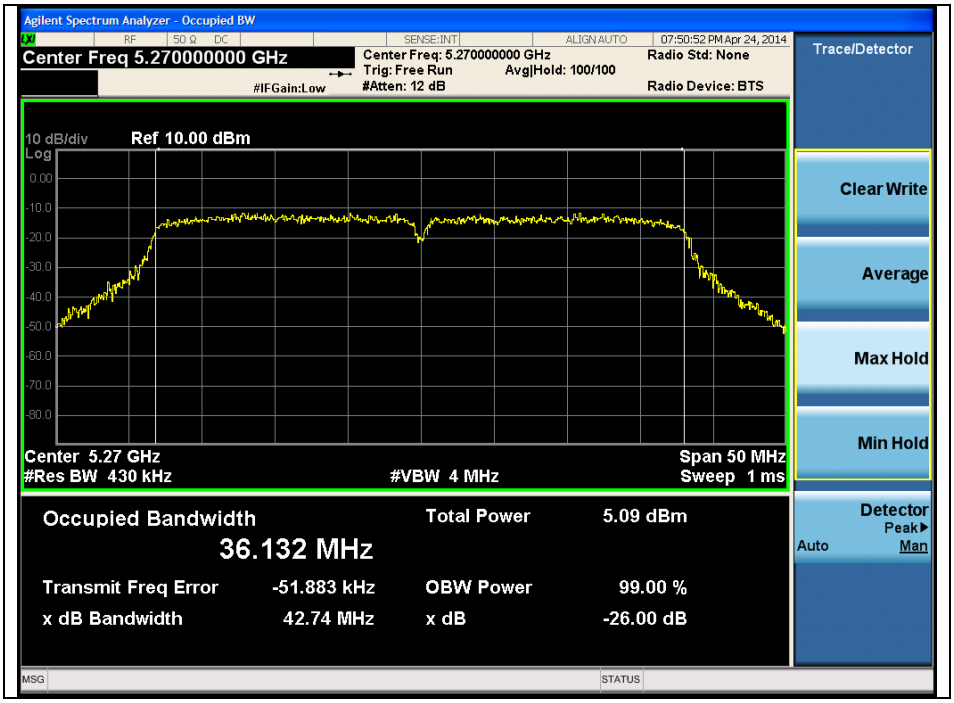


High Channel (5 230 ㎒)

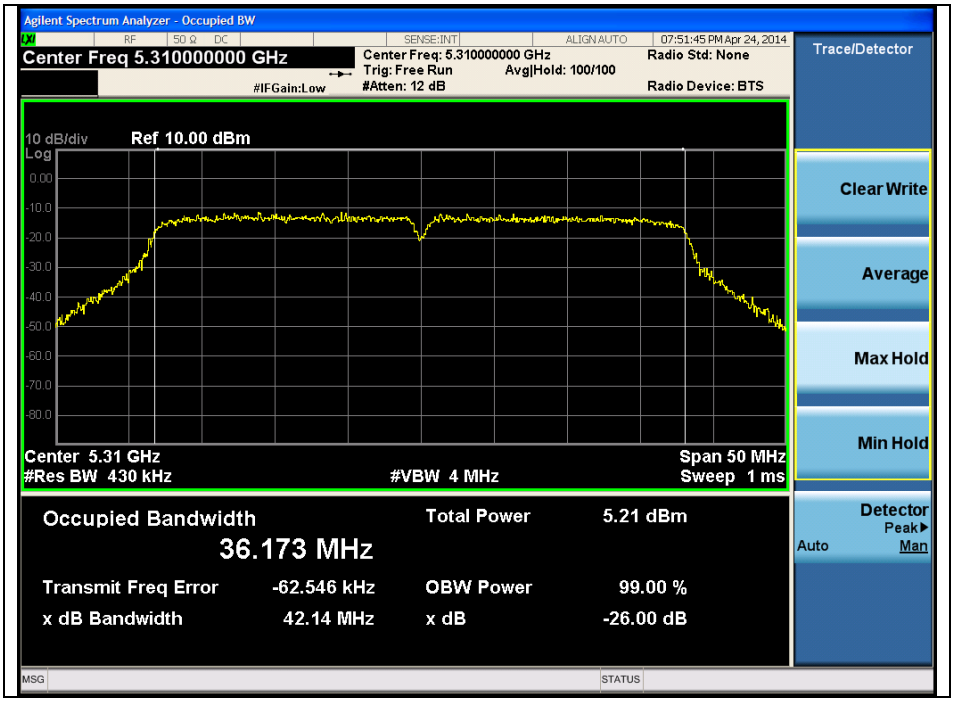


802.11n_HT40 (Band 2A)

Low Channel (5 270 ㎒)

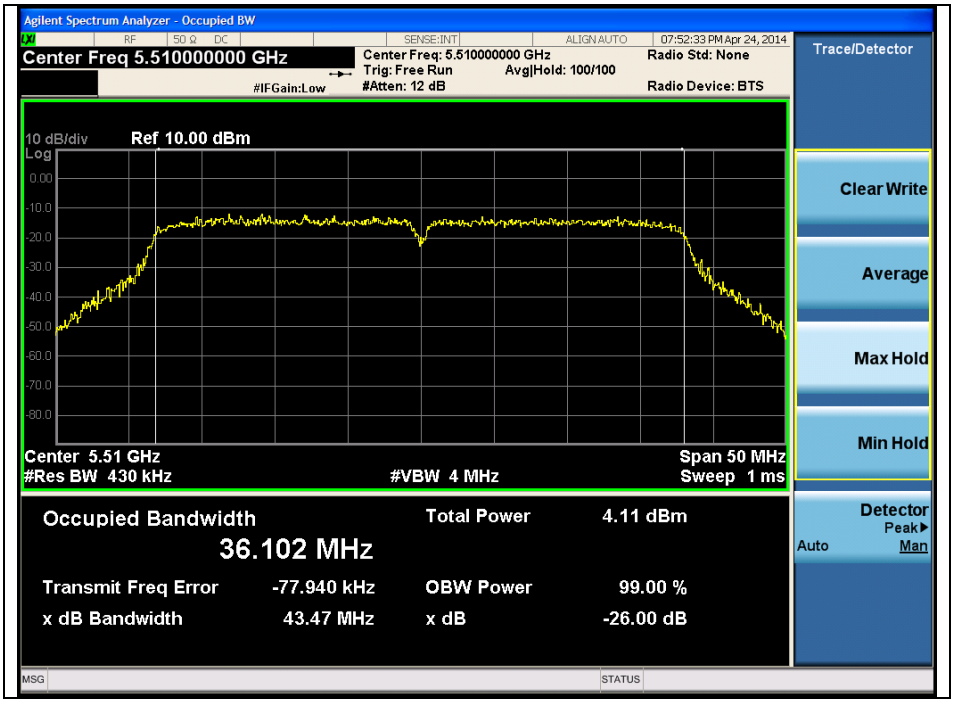


High Channel (5 310 ㎒)



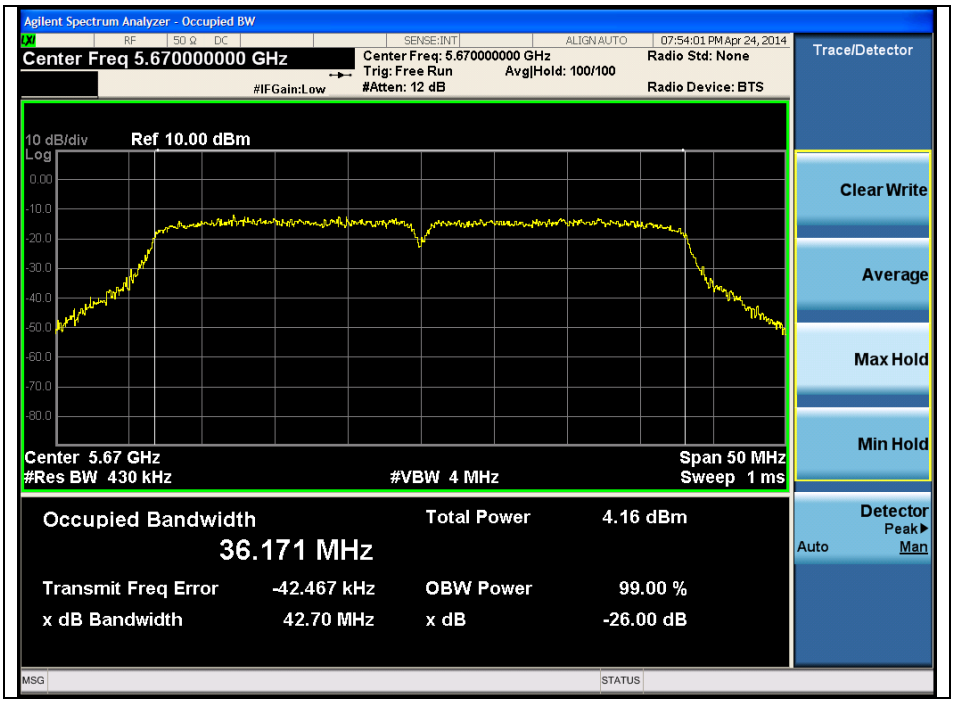
802.11n_HT40 (Band 2C)

Low Channel (5 510 ㎒)



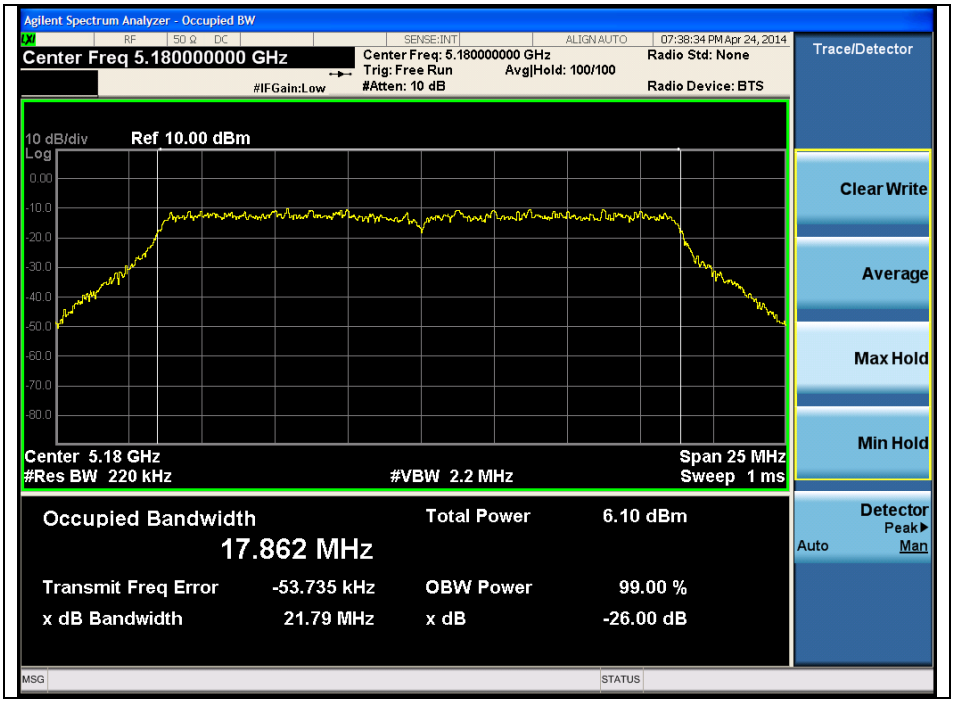
Low Channel (5 550 ㎒)

High Channel (5 670 ㎒)

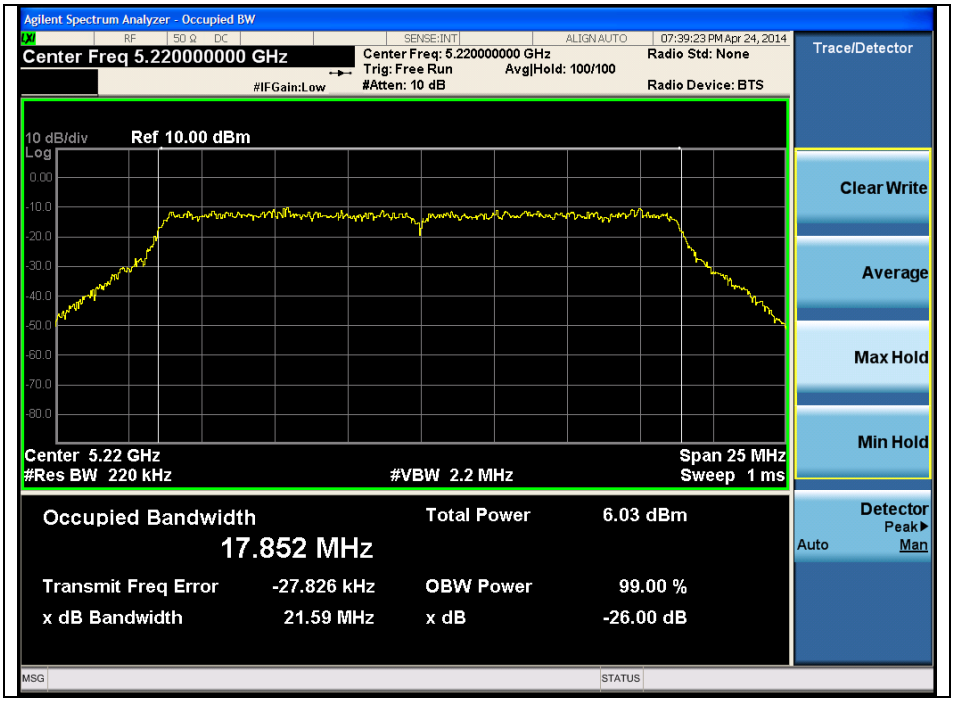


802.11ac_VHT20 (Band 1)

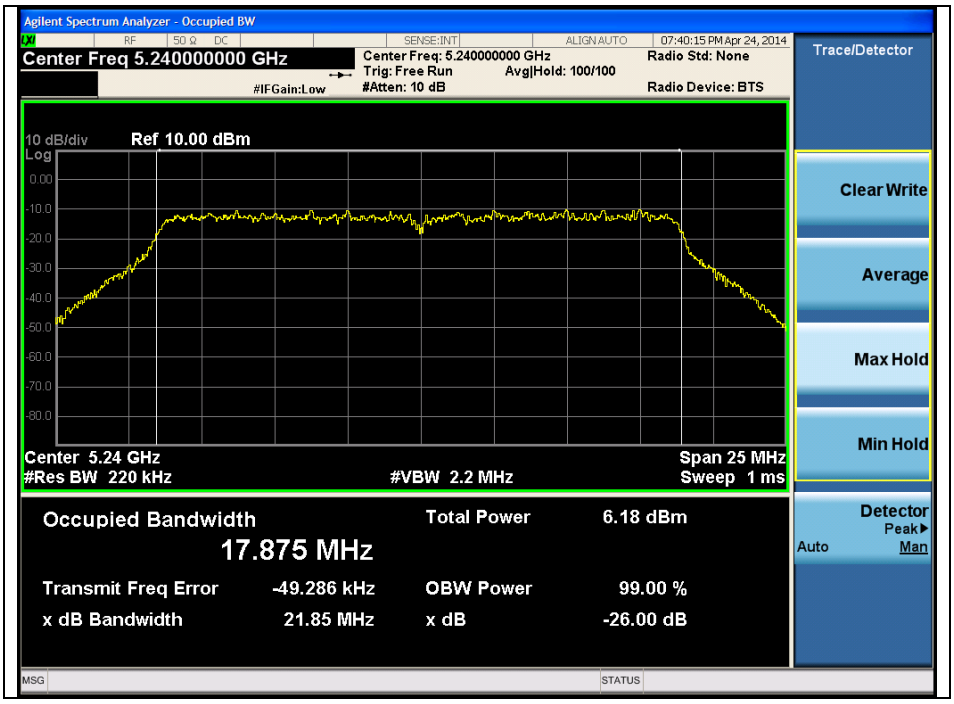
Low Channel (5 180 ㎒)



Middle Channel (5 220 ㎒)

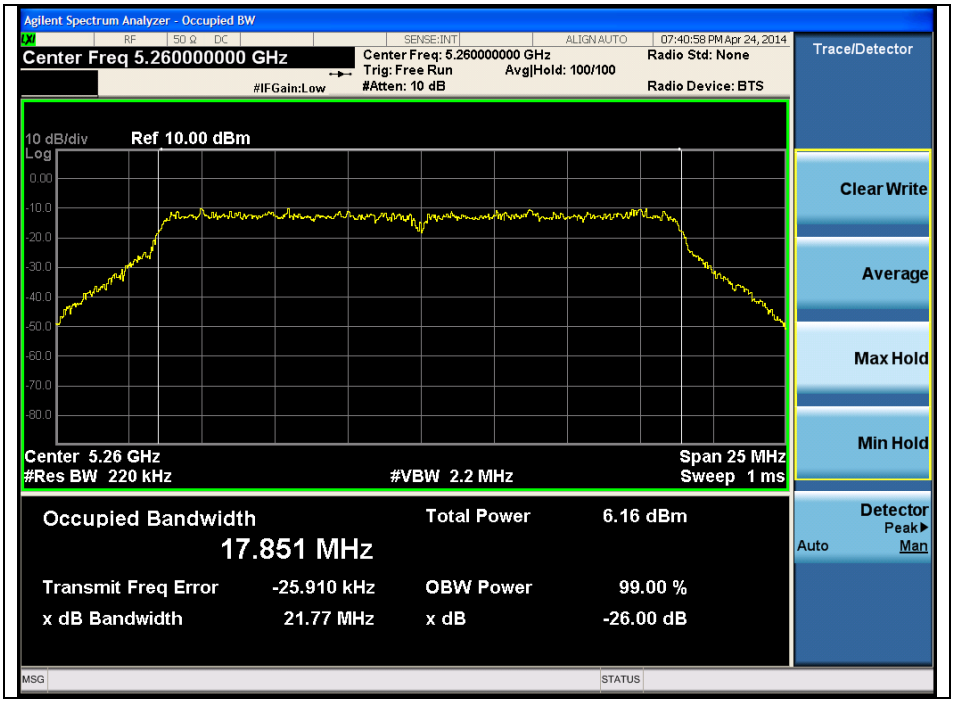


High Channel (5 240 ㎒)

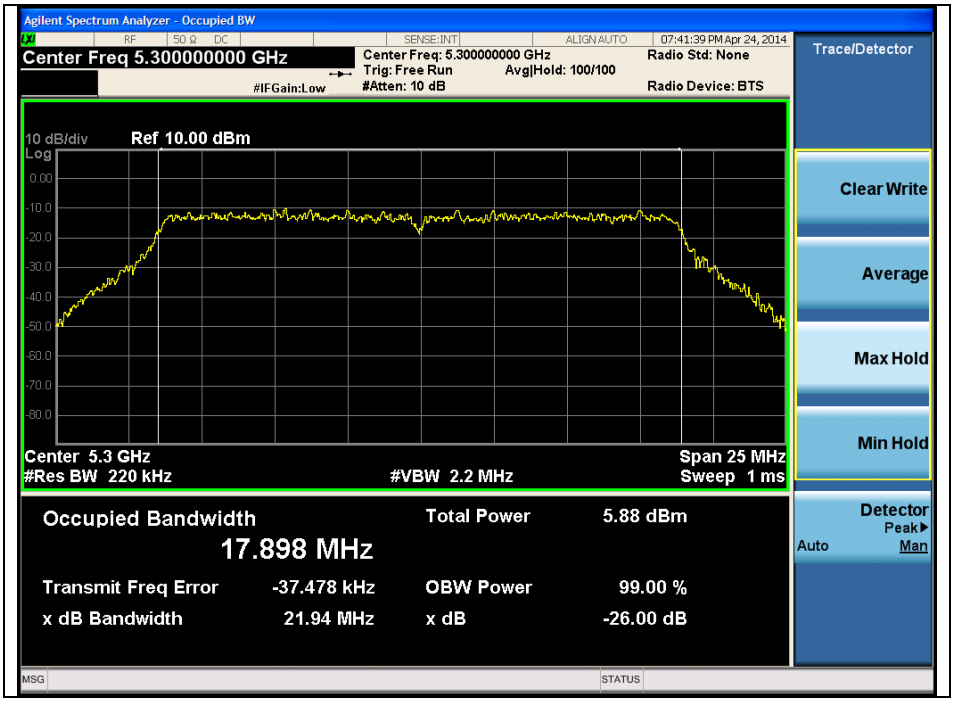


802. 11ac_VHT20 (Band 2A)

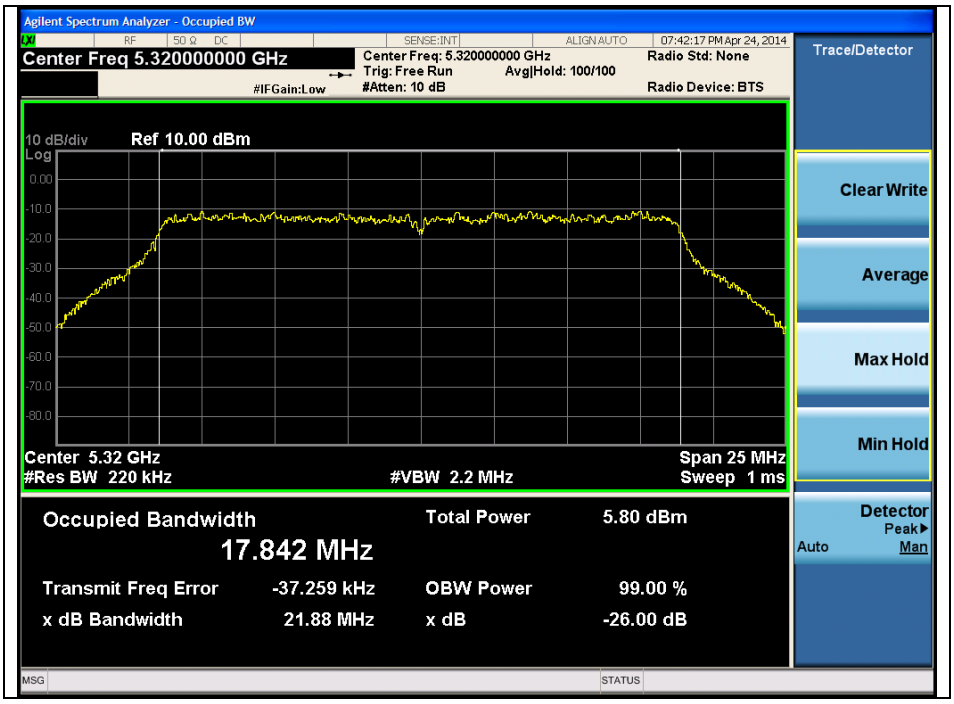
Low Channel (5 260 ㎒)



Middle Channel (5 300 ㎒)

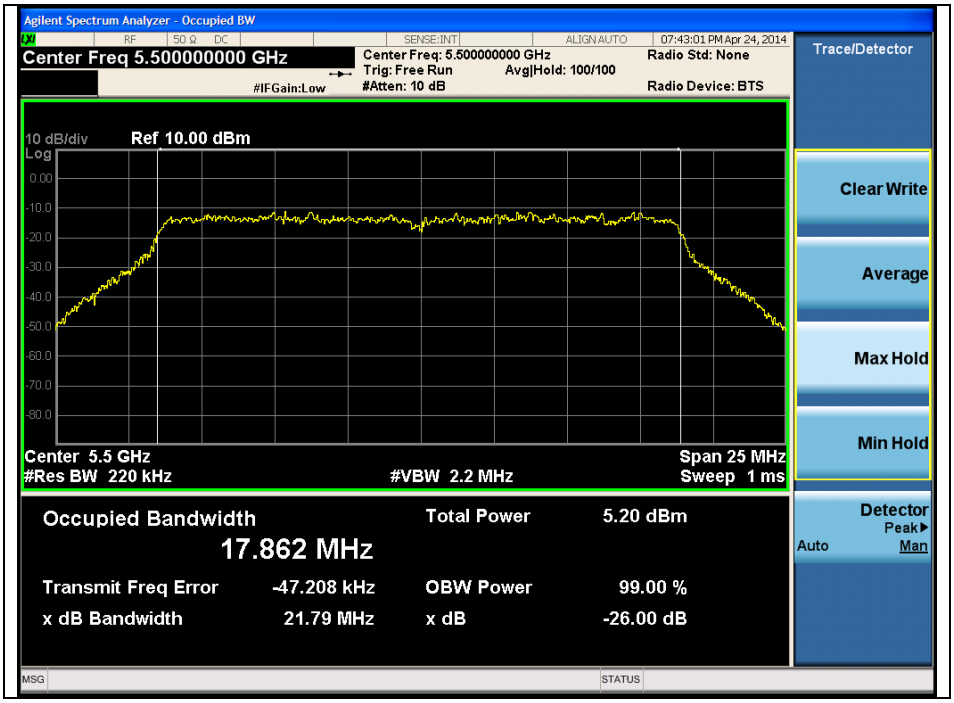


High Channel (5 320 ㎒)

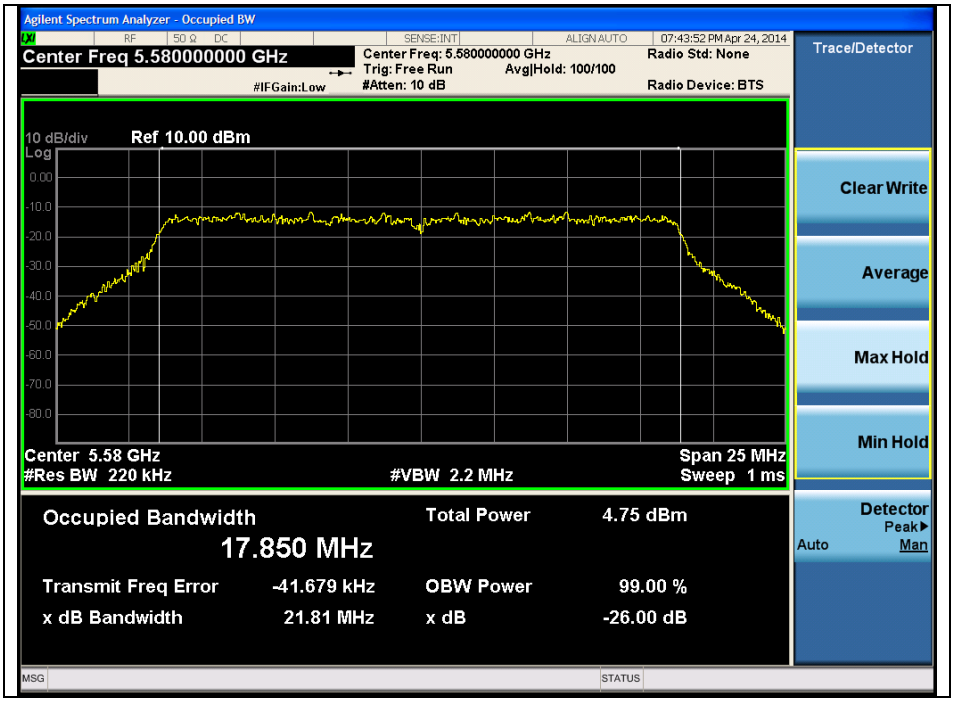


802. 11ac_VHT20 (Band 2C)

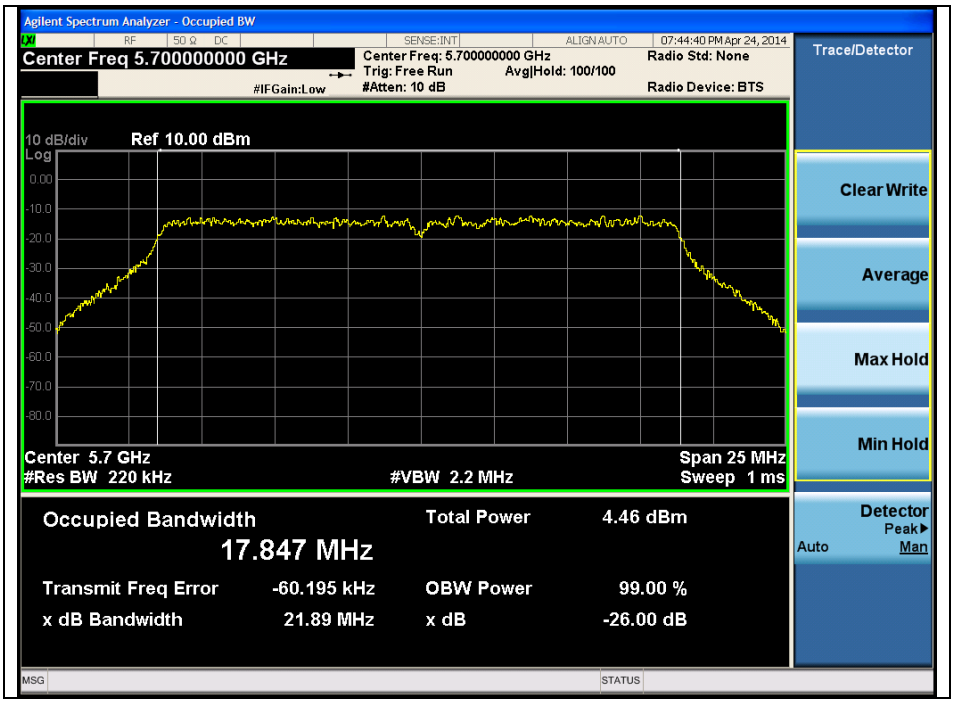
Low Channel (5 500 ㎒)



Middle Channel (5 580 ㎒)

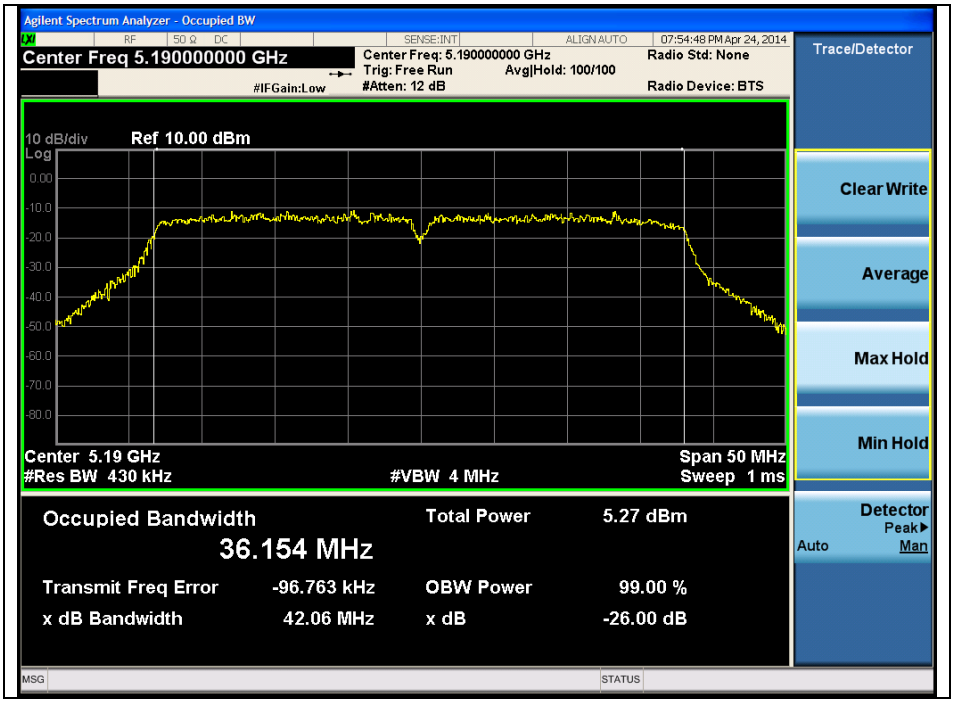


High Channel (5 700 ㎒)

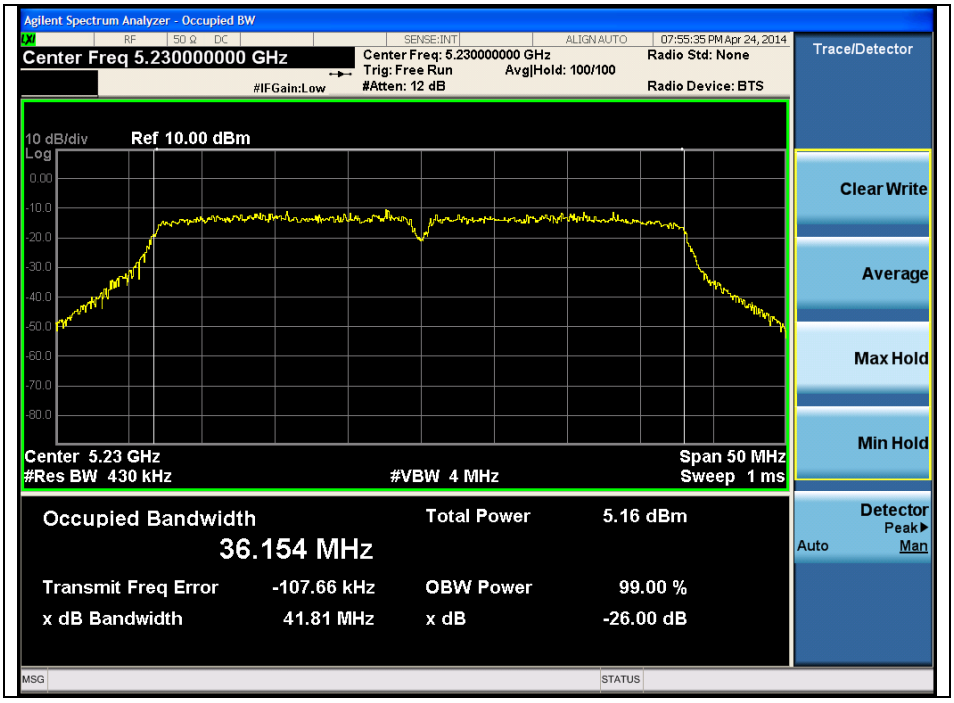


802.11ac_VHT40 (Band 1)

Low Channel (5 190 ㎒)

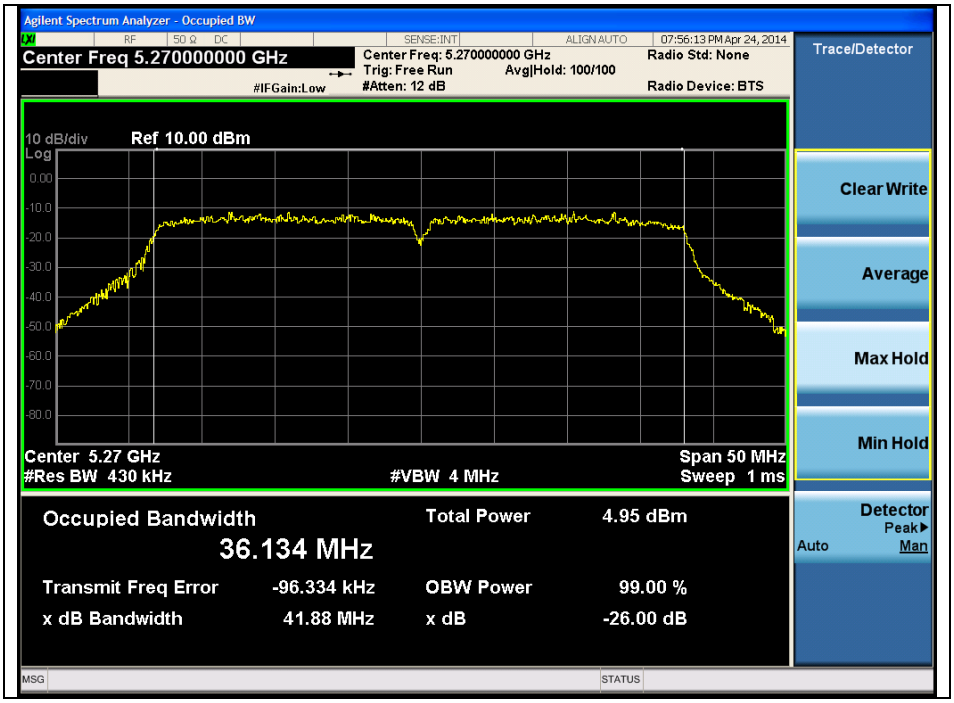


High Channel (5 230 ㎒)

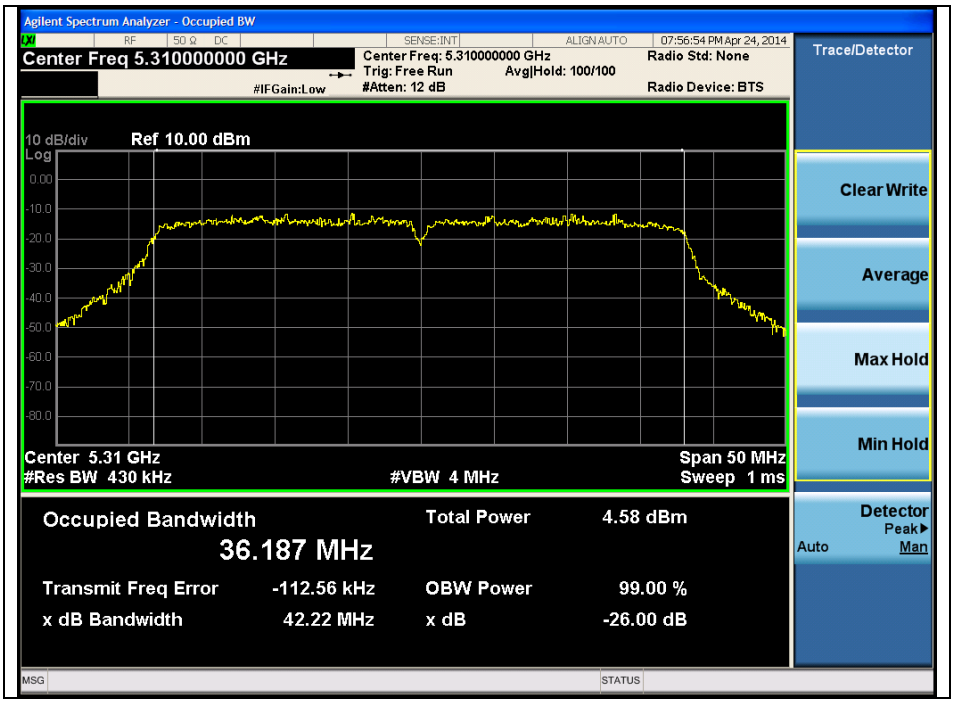


802. 11ac_VHT40 (Band 2A)

Low Channel (5 270 ㎒)

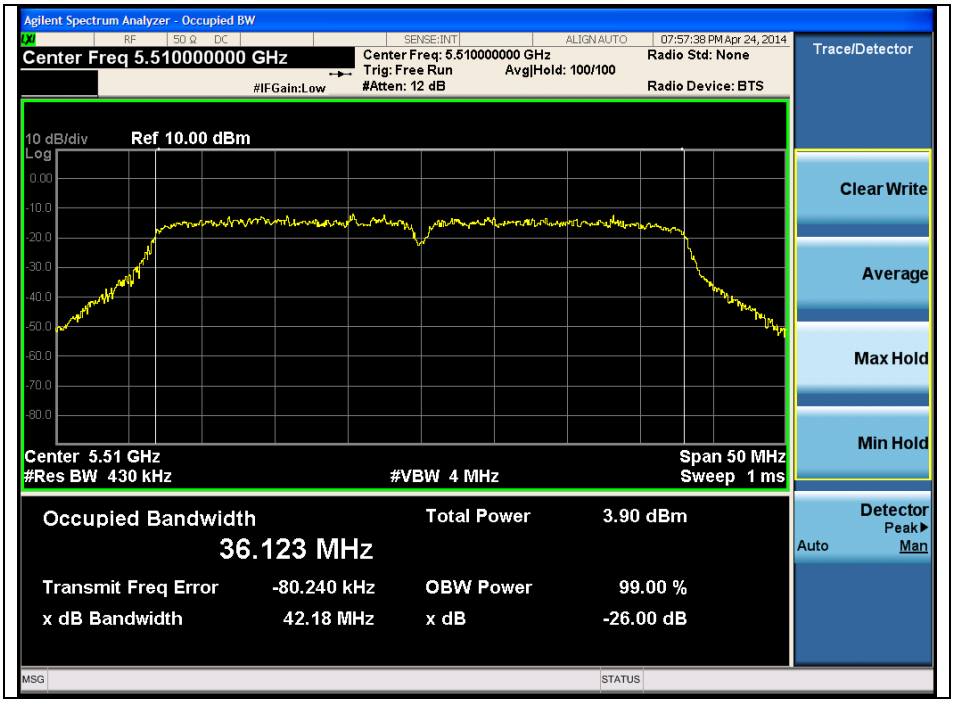


High Channel (5 310 ㎒)

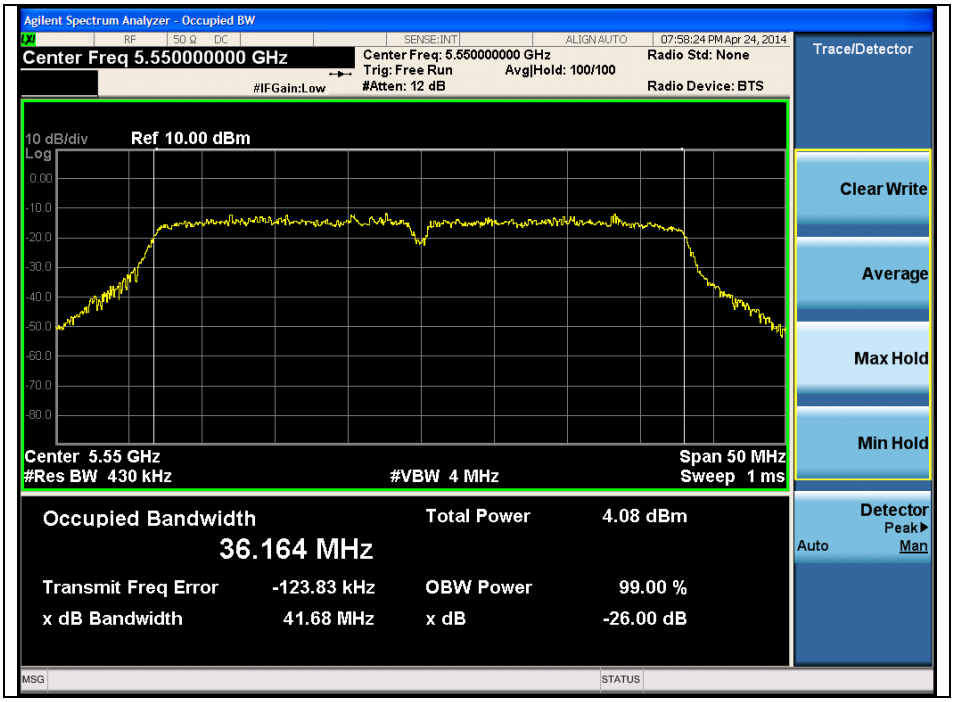


802. 11ac_VHT40 (Band 2C)

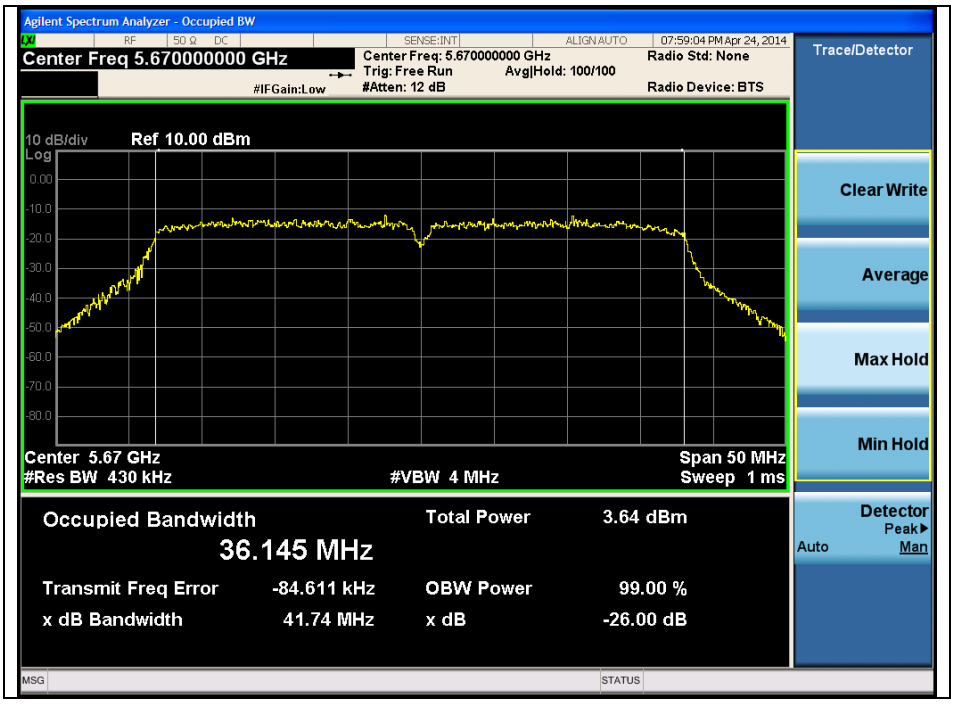
Low Channel (5 510 ㎒)



Low Channel (5 550 ㎒)



High Channel (5 670 ㎒)



802.11ac_VHT80 (Band 1)

Middle Channel (5 210 ㎒)

802. 11ac_VHT80 (Band 2A)

Middle Channel (5 290 ㎒)

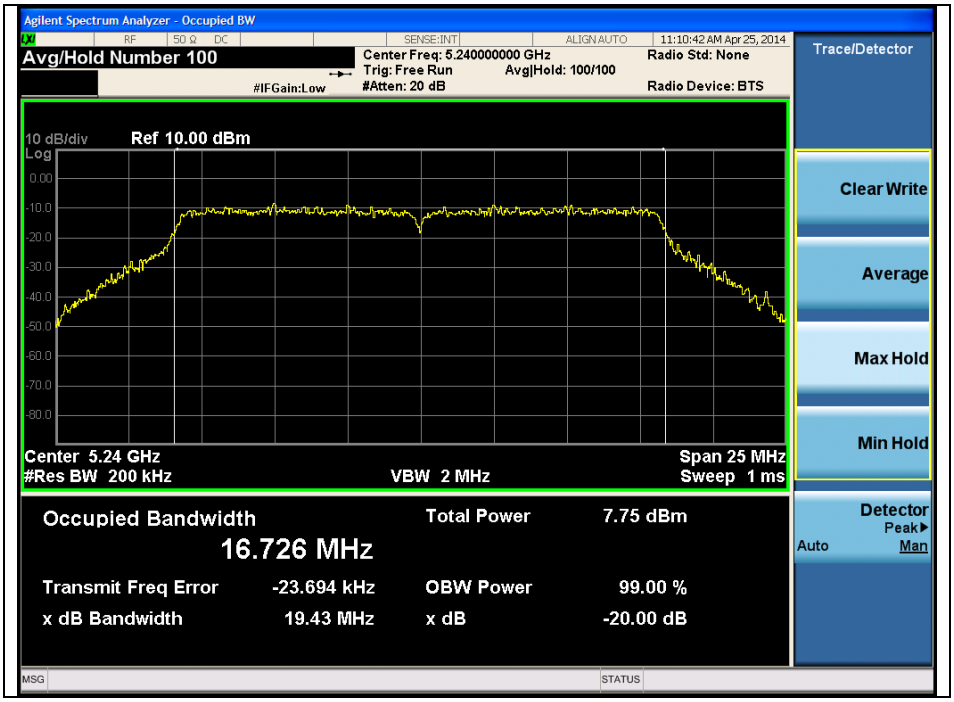
802. 11ac_VHT80 (Band 2C)

Middle Channel (5 530 ㎒)

20 dB Bandwidth

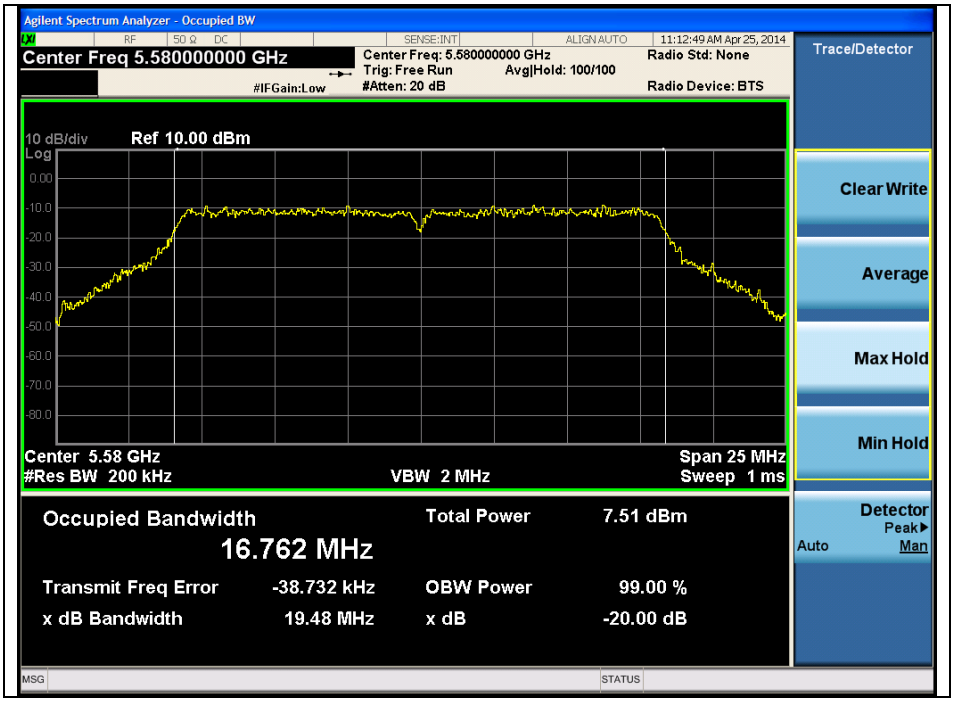
802.11a (Band 1)

Channel (5 240 ㎒)



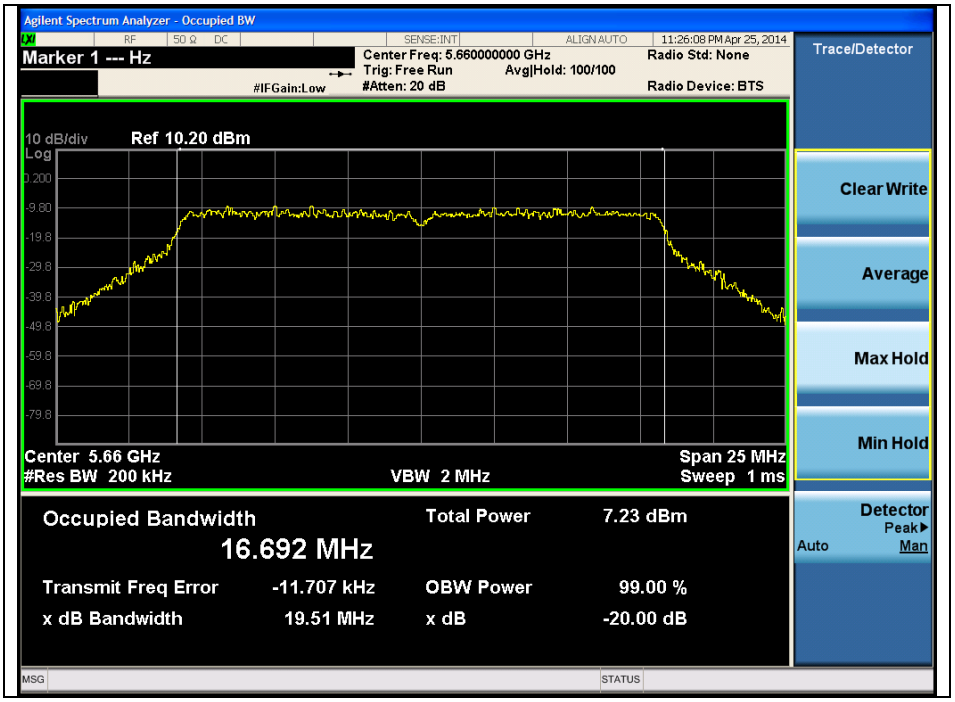
802.11a (Band 2A)

Channel (5 580 ㎒)



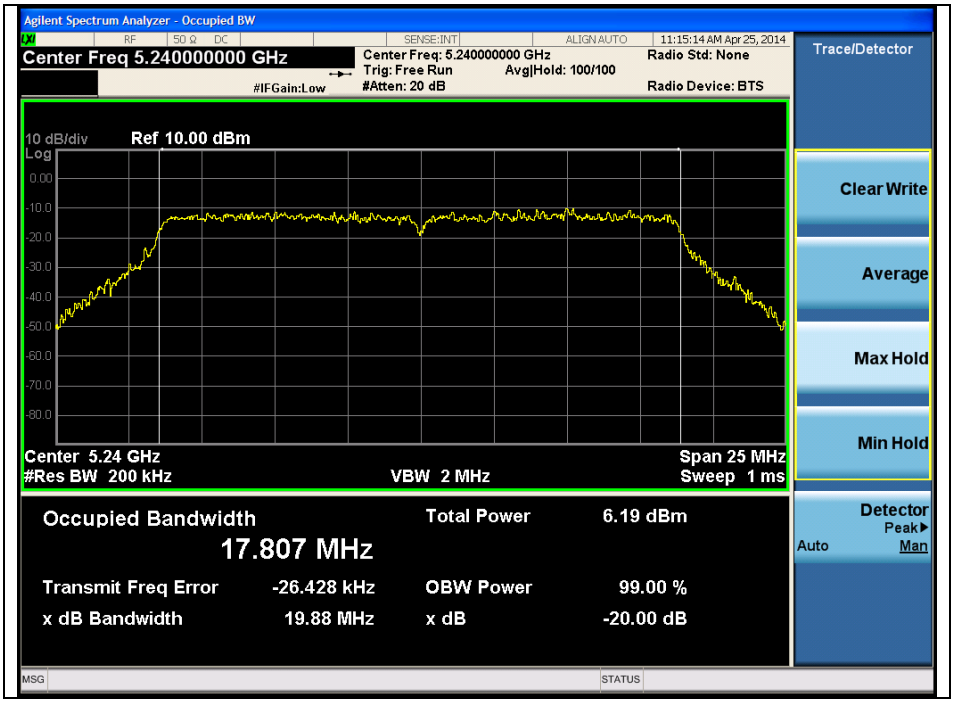
802.11a (Band 2C)

Channel (5 660 ㎒)



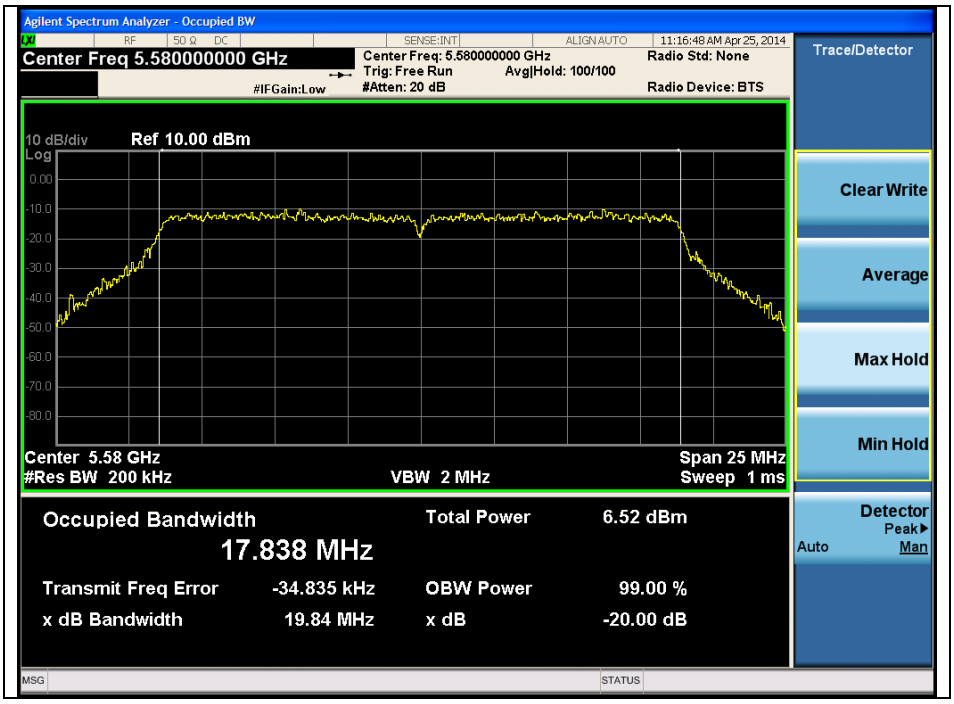
802.11n_HT20 (Band 1)

Channel (5 240 ㎒)



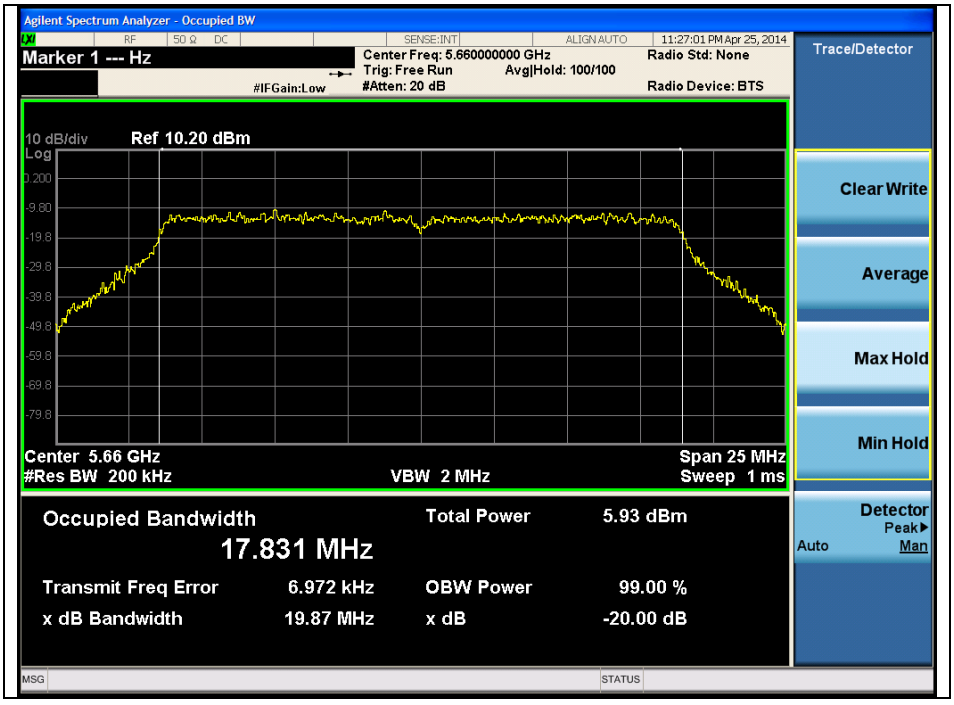
802.11n_HT20 (Band 2A)

Channel (5 580 ㎒)



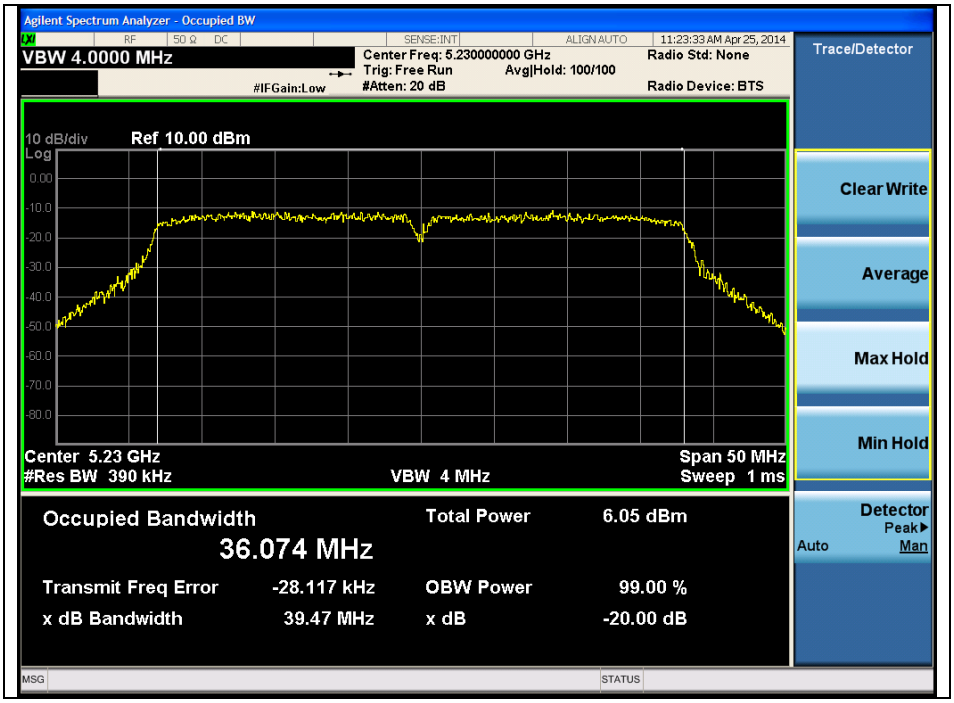
802.11n_HT20 (Band 2C)

Channel (5 660 ㎒)



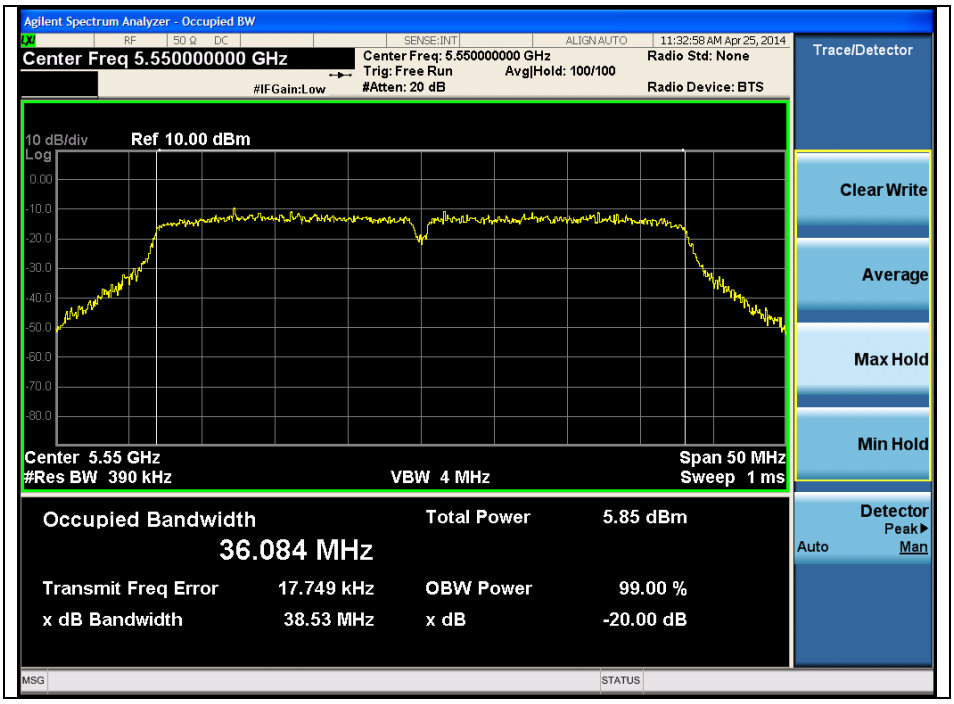
802.11n_HT40 (Band 1)

Channel (5 230 ㎒)



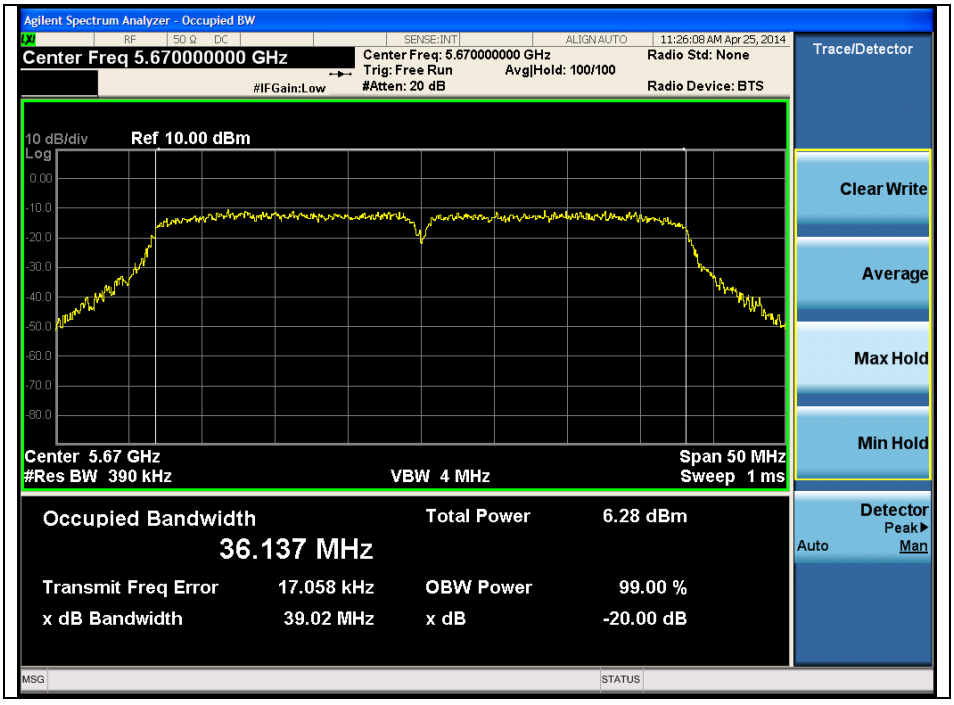
802.11n_HT40 (Band 2A)

Channel (5 550 ㎒)



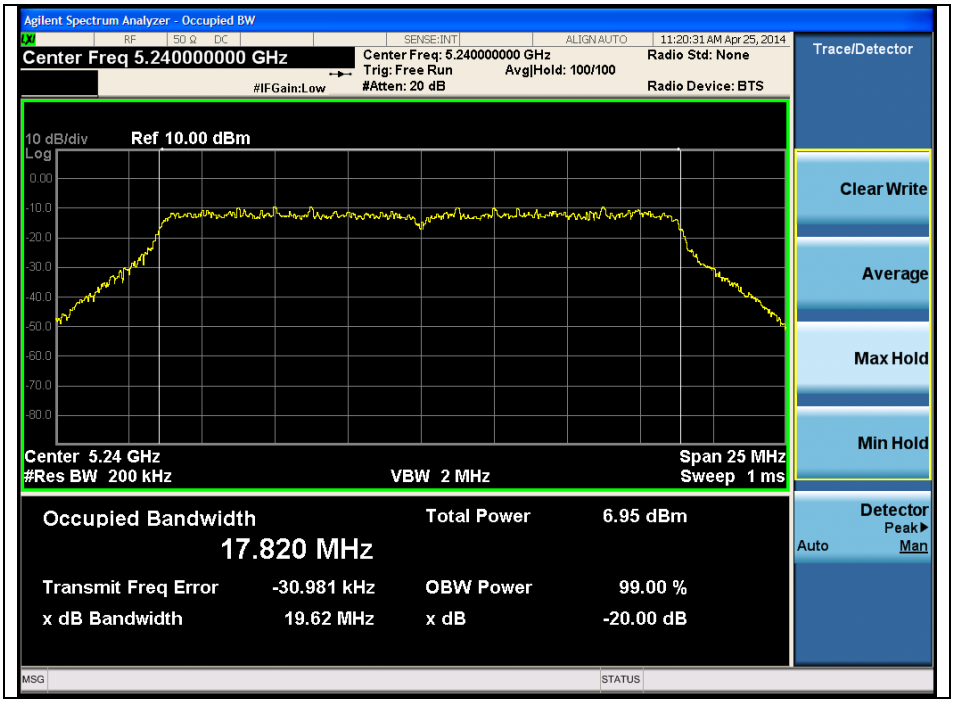
802.11n_HT40 (Band 2C)

Channel (5 670 ㎒)



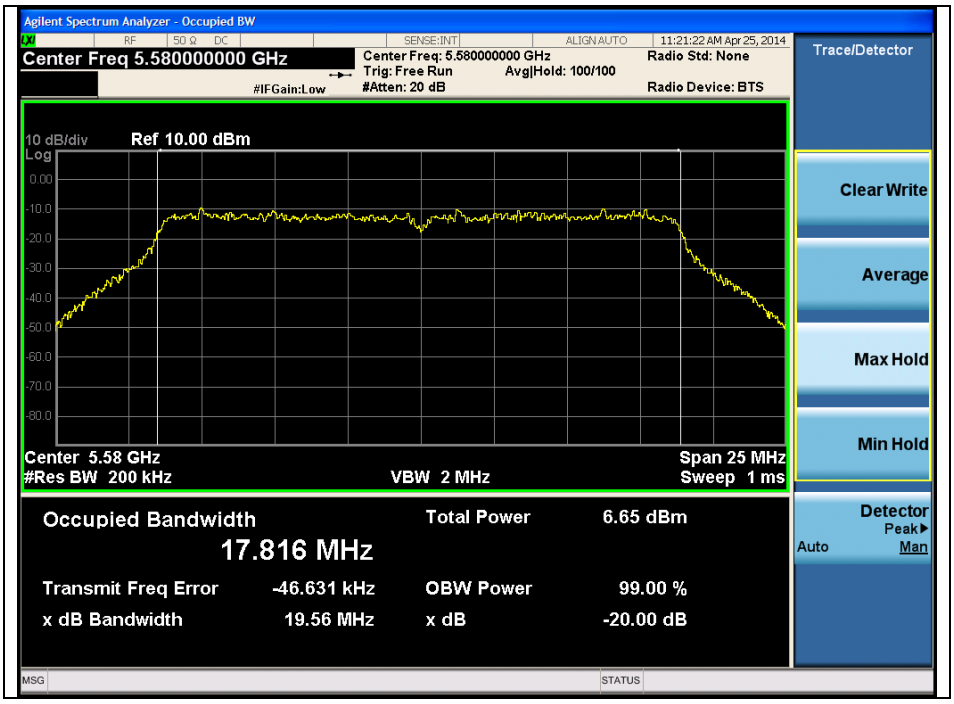
802.11ac_VHT20 (Band 1)

Channel (5 240 ㎒)



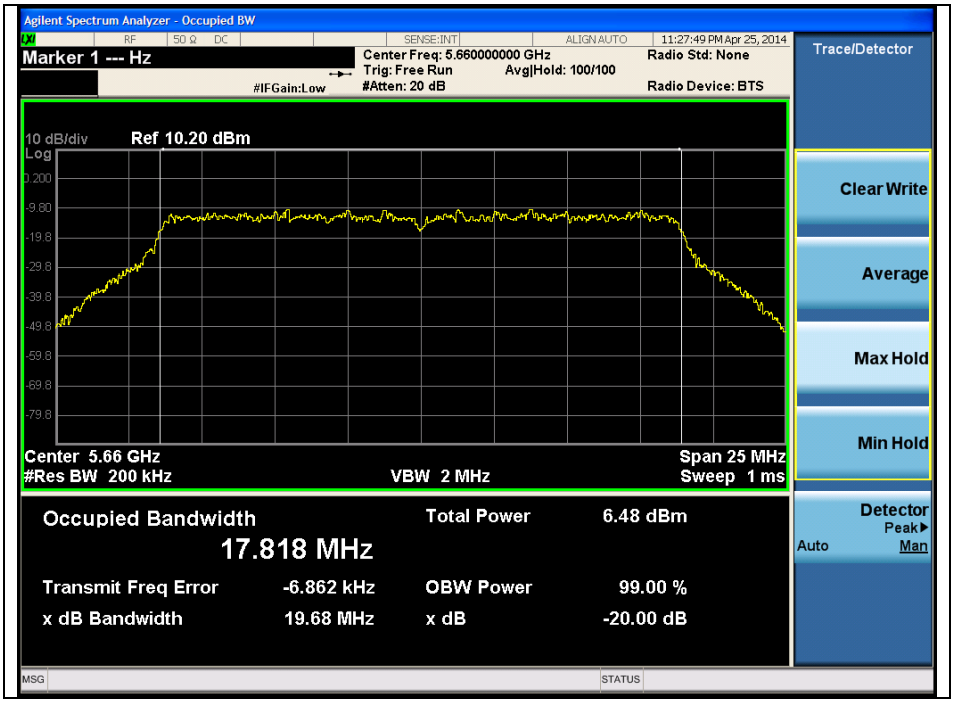
802.11ac_VHT20 (Band 2A)

Channel (5 580 ㎒)



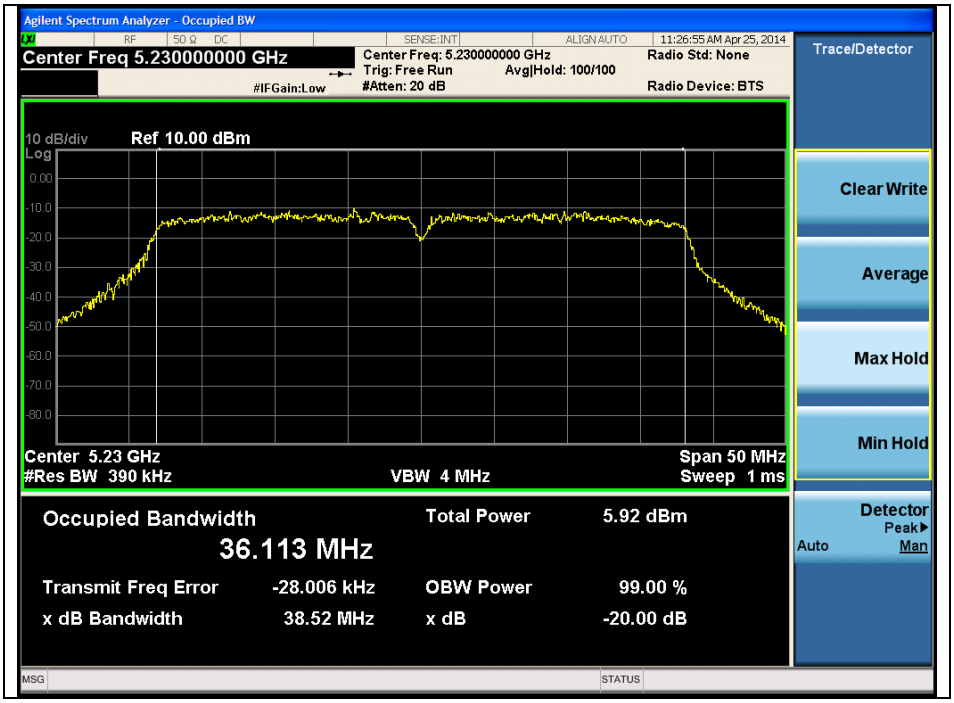
802.11ac_VHT20 (Band 2C)

Channel (5 660 ㎒)



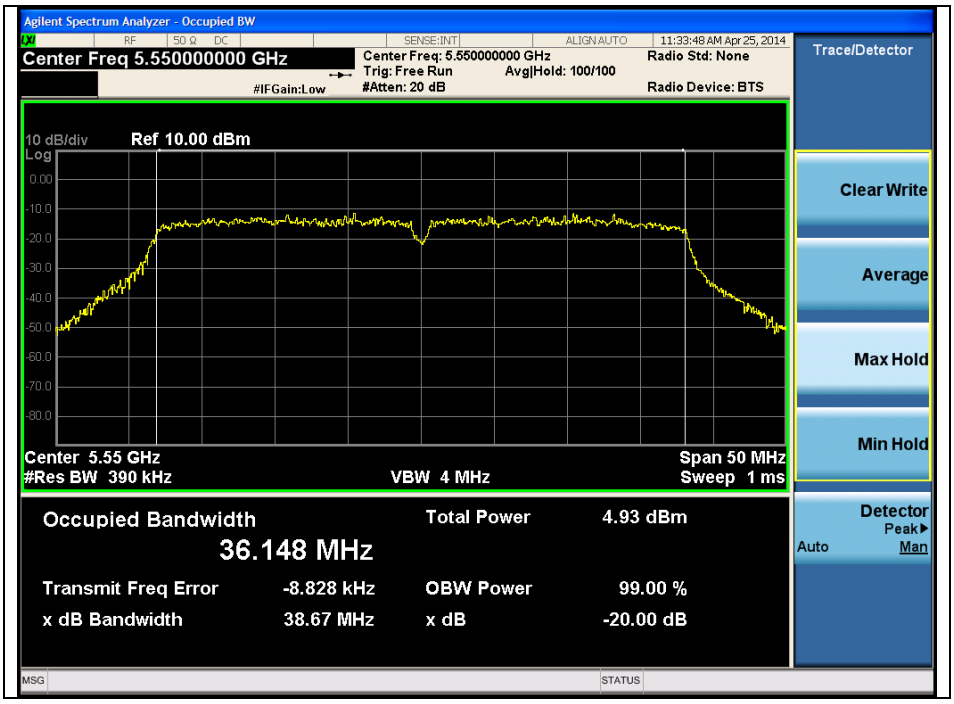
802.11ac_VHT40 (Band 1)

Channel (5 230 ㎒)



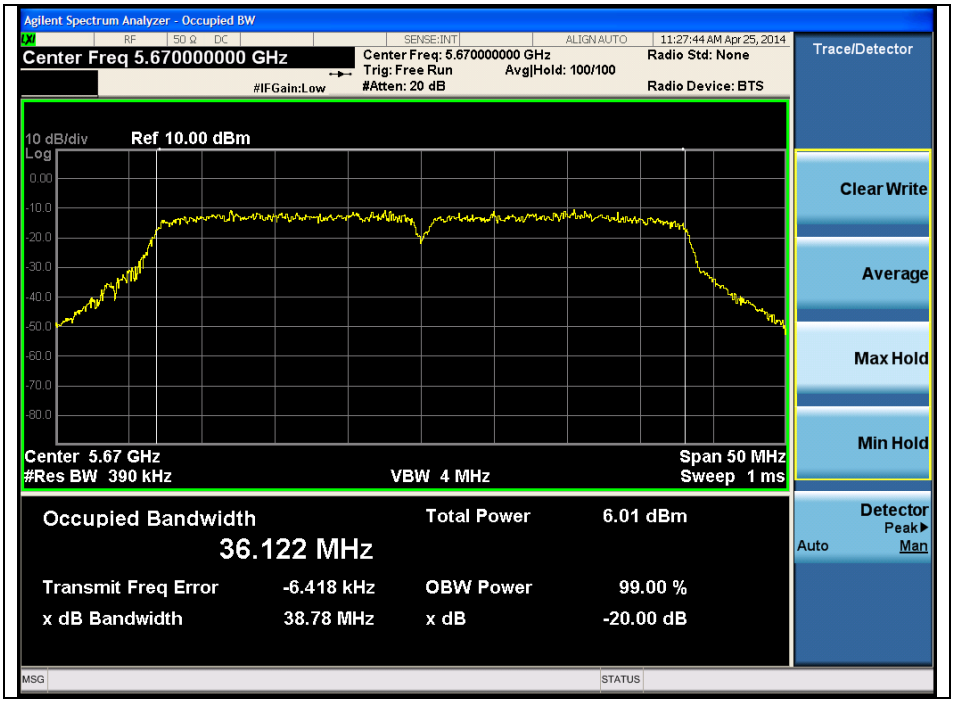
802.11ac_VHT40 (Band 2A)

Channel (5 550 ㎒)



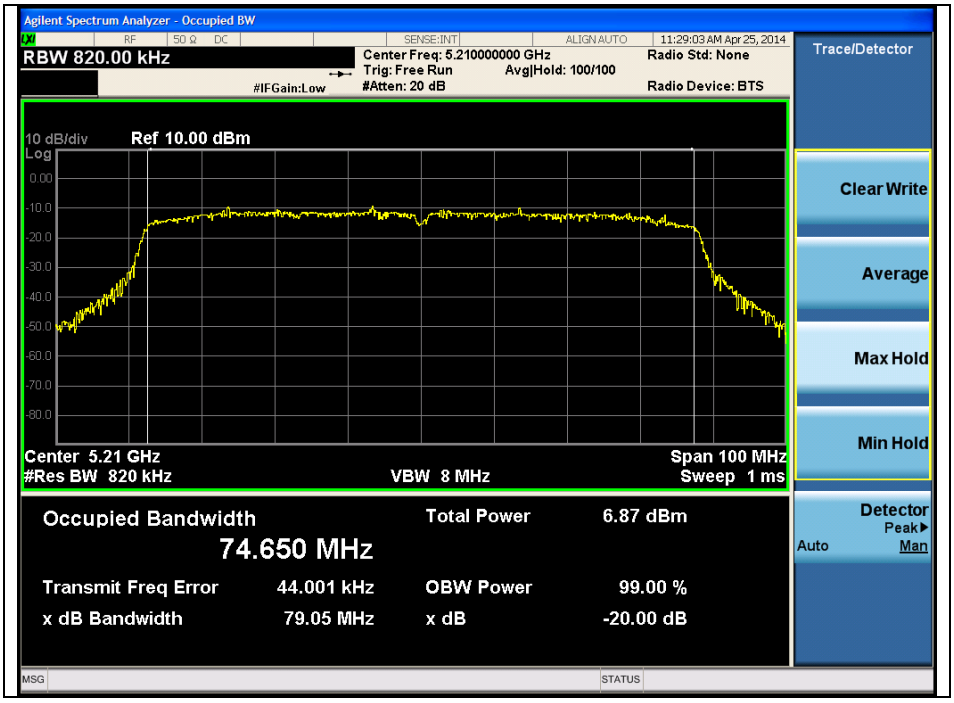
802.11ac_VHT40 (Band 2C)

Channel (5 670 ㎒)



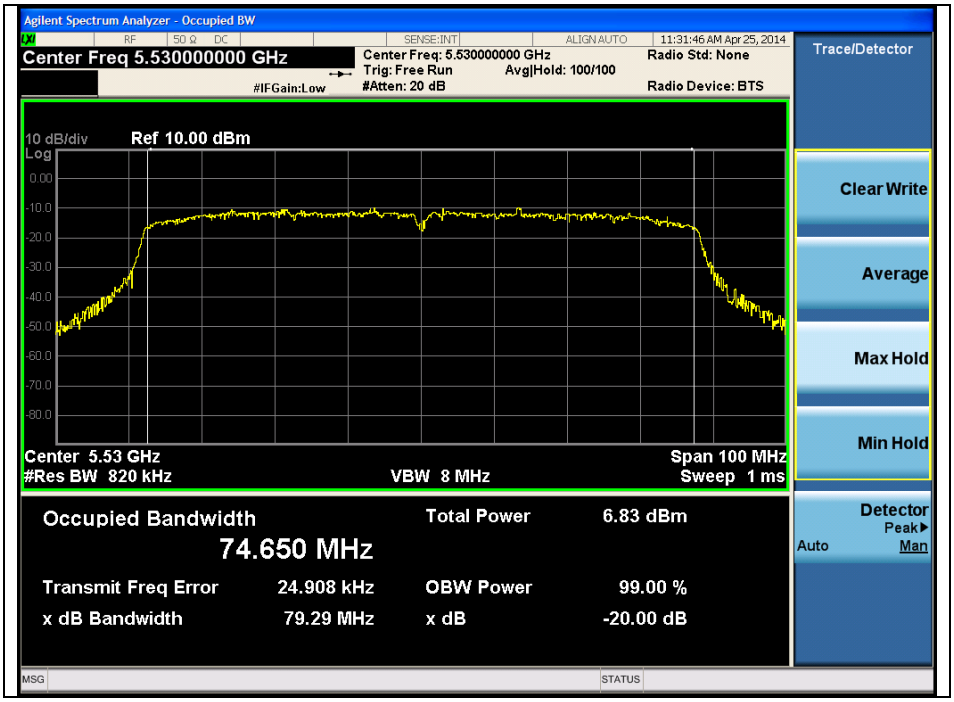
802.11ac_VHT80 (Band 1)

Channel (5 210 ㎒)



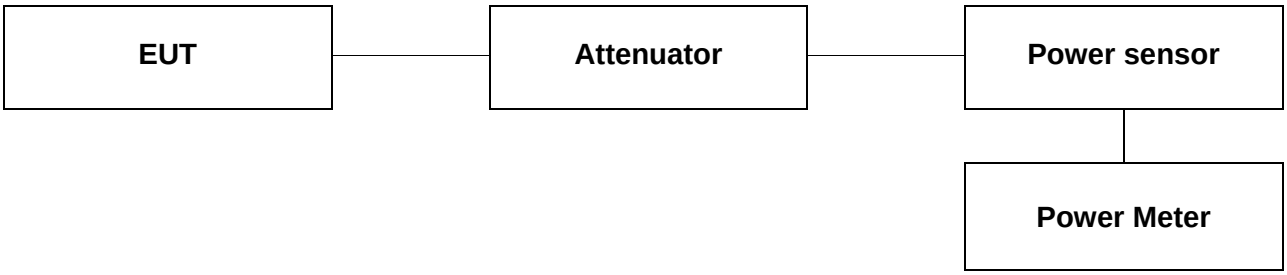
802.11ac_VHT80 (Band 2A)

Channel (5 530 ㎒)



4. Output power

4.1. Test setup



4.2. Limit

4.2.1. FCC 15.407

(a)(1)

For the 5.15-5.25 ㎓ band, the maximum conducted output power over the frequency band of operation shall not exceed the lesser of 50 ㎽ or 4 ㏈m + 10 log B, where B is the 26-㏈ emission bandwidth in ㎒. If transmitting antennas of directional gain greater than 6 ㏈i are used, both the peak transmit power and the peak power spectral density shall be reduced by the amount in ㏈ that the directional gain of the antenna exceeds 6 ㏈i.

(a)(2)

For the 5.25–5.35 ㎓ and 5.47–5.725 ㎓ bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 ㎽ or 11 ㏈m + 10 log B, where B is the 26 ㏈ emission bandwidth in megahertz. In addition, the peak power spectral density shall not exceed 11 ㏈m in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 ㏈i are used, both the maximum conducted output power and the peak power spectral density shall be reduced by the amount in ㏈ that the directional gain of the antenna exceeds 6 ㏈i.

4.3. Test procedure

1. This measurement settings are specified in clause 3) a) of section E of KDB 789033_v01r03.
2. Measurements may be performed using a wideband RF power meter with a thermocouple detector or equivalent if all of the conditions listed below are satisfied.
- The EUT is configured to transmit continuously or to transmit with a consistent duty cycle.
-At all times when the EUT is transmitting, it must be transmitting at its maximum power control level.
-The integration period of the power meter exceeds the repetition period of the transmitted signal by at least a factor of five.
3. If the transmitter does not transmit continuously, measure the duty cycle, x, of the transmitter output signal as described in section B).
4. Measure the average power of the transmitter. This measurement is an average over both the on and off periods of the transmitter.
5. Adjust the measurement in ㏈m by adding 10 log (1/x) where x is the duty cycle (e.g., 10 log(1/0.25) if the duty cycle is 25 percent).

4.4. Test result

Ambient temperature : (24 ± 2) ℃
Relative humidity : 49 % R.H.

- 11a

Band	Power	Frequency (㎒)	Conducted Power (㏈m)							
			Data Rate [Mbps]							
			6	9	12	18	24	36	48	54
U-NII 1	Mea. average	5 180	11.12	11.03	10.96	10.83	10.66	10.23	10.00	9.90
	Result		11.34	11.39	11.42	11.49	11.47	11.31	11.37	11.39
	Mea. average	5 220	11.26	11.08	11.00	10.86	10.71	10.34	10.09	9.97
	Result		11.48	11.44	11.46	11.52	11.52	11.42	11.46	11.46
	Mea. average	5 240	11.08	11.00	10.93	10.81	10.61	10.26	10.01	9.80
	Result		11.30	11.36	11.39	11.47	11.42	11.34	11.38	11.29
U-NII 2A	Mea. average	5 260	11.10	11.03	10.96	10.82	10.57	10.21	9.98	9.89
	Result		11.32	11.39	11.42	11.48	11.38	11.29	11.35	11.38
	Mea. average	5 300	10.85	10.76	10.66	10.49	10.18	9.88	9.58	9.47
	Result		11.07	11.12	11.12	11.15	10.99	10.96	10.95	10.96
	Mea. average	5 320	10.81	10.71	10.60	10.44	10.26	10.00	9.73	9.53
	Result		11.03	11.07	11.06	11.10	11.07	11.08	11.10	11.02
U-NII 2C	Mea. average	5 500	10.42	10.28	10.21	9.92	9.75	9.33	9.07	8.96
	Result		10.64	10.64	10.67	10.58	10.56	10.41	10.44	10.45
	Mea. average	5 580	10.08	9.90	9.82	9.67	9.50	9.24	8.98	8.88
	Result		10.30	10.26	10.28	10.33	10.31	10.32	10.35	10.37
	Mea. average	5 700	10.34	10.23	10.13	9.98	9.80	9.53	9.26	9.16
	Result		10.56	10.59	10.59	10.64	10.61	10.61	10.63	10.65

Band	Conducted Power Limit (㏈m)					
	Frequency (㎒)	Fixed Limit (㏈m)	26 dB BW (㎒)	4+10LogB (㏈m)	Antenna gain (㏈i)	Limit (㏈)
U-NII 1	5 180	17	21.57	17.34	-1.58	17
	5 220	17	21.65	17.35	-1.58	17
	5 240	17	21.57	17.34	-1.58	17
Band	**Frequency (㎒)**	**Fixed Limit (㏈m)**	**26 dB BW (㎒)**	**11+10LogB (㏈m)**	**Antenna gain (㏈i)**	**Limit (㏈)**
U-NII 2A	5 260	24	21.29	24.28	-1.58	24
	5 300	24	21.93	24.41	-1.58	24
	5 320	24	21.60	24.34	-1.58	24
U-NII 2C	5 500	24	21.53	24.33	-0.13	24
	5 580	24	21.80	24.38	-0.13	24
	5 700	24	21.29	24.28	-0.13	24

Mode	Duty cycle							
	Data Rate [Mbps]							
11a	6	9	12	18	24	36	48	54
Duty Cycle (%)	95	92	90	86	83	78	73	71
Correction factor (㏈)	0.22	0.36	0.46	0.66	0.81	1.08	1.37	1.49

Remark:
1. Result (㏈m) = Average (㏈m) + Correction factor (㏈)
2. Duty cycle (%) = (Tx on time / Tx on + off time) x 100
3. Correction factor (㏈) = 10 log (1/duty cycle (㎳))

- 11an_HT20

Band	Power	Frequency (㎒)	Conducted Power (㏈m)							
			Data Rate [MCS]							
			0	1	2	3	4	5	6	7
U-NII 1	Mea. average	5 180	10.15	10.00	9.76	9.53	9.33	8.90	8.78	8.66
	Result		10.42	10.46	10.47	10.45	10.47	10.51	10.52	10.53
	Mea. average	5 220	10.26	9.95	9.74	9.48	9.20	8.95	8.84	8.77
	Result		10.53	10.41	10.45	10.40	10.34	10.56	10.58	10.64
	Mea. average	5 240	10.13	9.93	9.76	9.55	9.46	8.85	8.69	8.59
	Result		10.40	10.39	10.47	10.47	10.60	10.46	10.43	10.46
U-NII 2A	Mea. average	5 260	10.15	9.92	9.74	9.53	9.07	8.83	8.75	8.65
	Result		10.42	10.38	10.45	10.45	10.21	10.44	10.49	10.52
	Mea. average	5 300	9.81	9.55	9.38	9.21	8.91	8.66	8.53	8.44
	Result		10.08	10.01	10.09	10.13	10.05	10.27	10.27	10.31
	Mea. average	5 320	9.98	9.74	9.48	9.21	8.95	8.73	8.63	8.51
	Result		10.25	10.20	10.19	10.13	10.09	10.34	10.37	10.38
U-NII 2C	Mea. average	5 500	9.27	8.98	8.73	8.55	8.27	8.03	7.94	7.81
	Result		9.54	9.44	9.44	9.47	9.41	9.64	9.68	9.68
	Mea. average	5 580	9.12	8.92	8.73	8.55	8.27	8.00	7.91	7.79
	Result		9.39	9.38	9.44	9.47	9.41	9.61	9.65	9.66
	Mea. average	5 700	9.36	8.92	8.79	8.61	8.32	8.06	7.95	7.84
	Result		9.63	9.38	9.50	9.53	9.46	9.67	9.69	9.71

Band	Conducted Power Limit (㏈m)					
	Frequency (㎒)	Fixed Limit (㏈m)	26 dB BW (㎒)	4+10LogB (㏈m)	Antenna gain (㏈i)	Limit (㏈)
U-NII 1	5 180	17	22.05	17.43	-1.58	17
	5 220	17	22.16	17.46	-1.58	17
	5 240	17	21.99	17.42	-1.58	17
Band	**Frequency (㎒)**	**Fixed Limit (㏈m)**	**26 dB BW (㎒)**	**11+10LogB (㏈m)**	**Antenna gain (㏈i)**	**Limit (㏈)**
U-NII 2A	5 260	24	22.11	24.45	-1.58	24
	5 300	24	21.99	24.42	-1.58	24
	5 320	24	21.98	24.42	-1.58	24
U-NII 2C	5 500	24	22.08	24.44	-0.13	24
	5 580	24	22.24	24.47	-0.13	24
	5 700	24	22.04	24.43	-0.13	24

Mode	Duty cycle							
	Data Rate [MCS]							
11an_HT20	0	1	2	3	4	5	6	7
Duty Cycle (%)	94	90	85	81	77	69	67	65
Correction factor (㏈)	0.27	0.46	0.71	0.92	1.14	1.61	1.74	1.87

Remark:

1. Result (㏈m) = Average (㏈m) + Correction factor (㏈)
2. Duty cycle (%) = (Tx on time / Tx on + off time) x 100
3. Correction factor (㏈) = 10 log (1/duty cycle (㎳))

- 11an_HT40

Band	Power	Frequency (㎒)	Conducted Power (㏈ m)							
			Data Rate [MCS]							
			0	1	2	3	4	5	6	7
U-NII 1	Mea. average	5 190	9.39	9.03	8.64	8.38	7.92	7.44	7.23	7.05
	Result		9.90	9.95	9.83	9.99	10.07	10.12	9.83	10.06
	Mea. average	5 230	9.40	8.95	8.75	8.25	7.83	7.43	7.28	7.18
	Result		9.91	9.87	9.94	9.86	9.98	10.11	9.88	10.19
U-NII 2A	Mea. average	5 270	9.30	8.92	8.59	8.20	7.68	7.29	7.13	7.03
	Result		9.81	9.84	9.78	9.81	9.83	9.97	9.73	10.04
	Mea. average	5 310	9.15	8.77	8.37	8.05	7.51	7.96	6.96	6.87
	Result		9.66	9.69	9.56	9.66	9.66	10.64	9.56	9.88
U-NII 2C	Mea. average	5 510	8.53	8.23	7.91	7.36	6.95	6.54	6.40	6.29
	Result		9.04	9.15	9.10	8.97	9.10	9.22	9.00	9.30
	Mea. average	5 550	8.57	8.28	7.99	7.66	7.23	6.61	6.41	6.31
	Result		9.08	9.20	9.18	9.27	9.38	9.29	9.01	9.32
	Mea. average	5 670	8.61	8.27	7.78	7.43	6.99	6.59	6.44	6.34
	Result		9.12	9.19	8.97	9.04	9.14	9.27	9.04	9.35

Band	Conducted Power Limit (㏈ m)					
	Frequency (㎒)	Fixed Limit (㏈ m)	26 dB BW (㎒)	4+10LogB (㏈ m)	Antenna gain (㏈ i)	Limit (㏈)
U-NII 1	5 190	17	42.96	20.33	-1.58	17
	5 230	17	43.36	20.37	-1.58	17
Band	**Frequency (㎒)**	**Fixed Limit (㏈ m)**	**26 dB BW (㎒)**	**11+10LogB (㏈ m)**	**Antenna gain (㏈ i)**	**Limit (㏈)**
U-NII 2A	5 270	24	42.74	27.31	-1.58	24
	5 310	24	42.14	27.25	-1.58	24
U-NII 2C	5 510	24	43.47	27.38	-0.13	24
	5 550	24	42.68	27.30	-0.13	24
	5 670	24	42.70	27.30	-0.13	24

Mode	Duty cycle							
	Data Rate [MCS]							
11an_HT40	0	1	2	3	4	5	6	7
Duty Cycle (%)	89	81	76	69	61	54	55	50
Correction factor (㏈)	0.51	0.92	1.19	1.61	2.15	2.68	2.60	3.01

Remark:

1. Result (㏈ m) = Average (㏈ m) + Correction factor (㏈)
2. Duty cycle (%) = (Tx on time / Tx on + off time) x 100
3. Correction factor (㏈) = 10 log (1/duty cycle (㎳))

- 11ac_VHT20

Band	Power	Frequency (㎒)	Conducted Power (㏈m)								
			Data Rate [MCS]								
			0	1	2	3	4	5	6	7	8
U-NII 1	Mea. average	5 180	10.24	9.77	9.60	9.21	8.69	8.45	8.24	8.12	7.83
	Result		10.70	10.63	10.68	10.70	10.49	10.82	10.61	10.56	10.84
	Mea. average	5 220	10.08	9.83	9.57	9.08	8.68	8.40	8.25	8.12	7.86
	Result		10.54	10.69	10.65	10.57	10.48	10.77	10.62	10.56	10.87
	Mea. average	5 240	10.07	9.72	9.35	9.06	8.67	8.47	8.26	8.17	7.88
	Result		10.53	10.58	10.43	10.55	10.47	10.84	10.63	10.61	10.89
U-NII 2A	Mea. average	5 260	10.06	9.65	9.38	9.13	8.60	8.40	8.19	8.04	7.70
	Result		10.52	10.51	10.46	10.62	10.40	10.77	10.56	10.48	10.71
	Mea. average	5 300	9.77	9.44	9.17	8.74	8.26	8.09	7.90	7.79	7.54
	Result		10.23	10.30	10.25	10.23	10.06	10.46	10.27	10.23	10.55
	Mea. average	5 320	9.82	9.49	9.25	8.93	8.46	8.21	7.95	7.89	7.53
	Result		10.28	10.35	10.33	10.42	10.26	10.58	10.32	10.33	10.54
U-NII 2C	Mea. average	5 500	9.15	8.82	8.54	8.26	7.66	7.47	7.29	7.17	6.92
	Result		9.61	9.68	9.62	9.75	9.46	9.84	9.66	9.61	9.93
	Mea. average	5 580	9.09	8.73	8.45	8.19	7.78	7.51	7.28	7.16	6.88
	Result		9.55	9.59	9.53	9.68	9.58	9.88	9.65	9.60	9.89
	Mea. average	5 700	9.18	8.75	8.49	8.20	7.82	7.62	7.46	7.11	6.87
	Result		9.64	9.61	9.57	9.69	9.62	9.99	9.83	9.55	9.88

Band	Conducted Power Limit (㏈m)					
	Frequency (㎒)	Fixed Limit (㏈m)	26 dB BW (㎒)	4+10LogB (㏈m)	Antenna gain (㏈i)	Limit (㏈)
U-NII 1	5 180	17	21.79	17.38	-1.58	17
	5 220	17	21.59	17.34	-1.58	17
	5 240	17	21.85	17.39	-1.58	17
Band	**Frequency (㎒)**	**Fixed Limit (㏈m)**	**26 dB BW (㎒)**	**11+10LogB (㏈m)**	**Antenna gain (㏈i)**	**Limit (㏈)**
U-NII 2A	5 260	24	21.77	24.38	-1.58	24
	5 300	24	21.94	24.41	-1.58	24
	5 320	24	21.88	24.40	-1.58	24
U-NII 2C	5 500	24	21.79	24.38	-0.13	24
	5 580	24	21.81	24.39	-0.13	24
	5 700	24	21.89	24.40	-0.13	24

Mode	Duty cycle								
	Data Rate [MCS]								
11ac_VHT20	0	1	2	3	4	5	6	7	8
Duty Cycle (%)	90	82	78	71	66	58	58	57	50
Correction factor (㏈)	0.46	0.86	1.08	1.49	1.80	2.37	2.37	2.44	3.01

Remark:

1. Result (㏈m) = Average (㏈m) + Correction factor (㏈)
2. Duty cycle (%) = (Tx on time / Tx on + off time) x 100
3. Correction factor (㏈) = 10 log (1/duty cycle (㎳))

- 11ac_VHT40

Band	Power	Frequency (㎒)	Conducted Power (㏈m)									
			Data Rate [MCS]									
			0	1	2	3	4	5	6	7	8	9
U-NII 1	Mea. average	5 190	8.91	8.42	8.00	7.48	6.95	6.69	6.49	6.37	6.18	6.17
	Result		9.77	9.79	9.80	9.56	9.55	9.70	9.77	9.65	9.75	9.74
	Mea. average	5 230	8.79	8.31	8.07	7.62	7.15	6.81	6.67	6.52	6.35	6.30
	Result		9.65	9.68	9.87	9.70	9.75	9.82	9.95	9.80	9.92	9.87
U-NII 2A	Mea. average	5 270	8.80	8.28	7.83	7.35	6.98	6.60	6.51	6.34	6.16	6.03
	Result		9.66	9.65	9.63	9.43	9.58	9.61	9.79	9.62	9.73	9.60
	Mea. average	5 310	8.59	8.10	7.72	7.23	6.69	6.41	6.28	6.07	5.94	5.83
	Result		9.45	9.47	9.52	9.31	9.29	9.42	9.56	9.35	9.51	9.40
U-NII 2C	Mea. average	5 510	7.93	7.42	7.01	6.42	6.19	5.71	5.57	5.68	5.30	5.27
	Result		8.79	8.79	8.81	8.50	8.79	8.72	8.85	8.96	8.87	8.84
	Mea. average	5 550	8.03	7.69	7.23	6.66	6.04	5.76	5.61	5.68	5.55	5.35
	Result		8.89	9.06	9.03	8.74	8.64	8.77	8.89	8.96	9.12	8.92
	Mea. average	5 670	7.80	7.45	7.07	6.66	6.25	6.95	5.62	5.36	5.25	5.00
	Result		8.66	8.82	8.87	8.74	8.85	8.96	8.90	8.64	8.82	8.57

Band	Conducted Power Limit (㏈m)					
	Frequency (㎒)	Fixed Limit (㏈m)	26 dB BW (㎒)	4+10LogB (㏈m)	Antenna gain (㏈i)	Limit (㏈)
U-NII 1	5 190	17	42.06	20.24	-1.58	17
	5 230	17	41.81	20.21	-1.58	17
Band	**Frequency (㎒)**	**Fixed Limit (㏈m)**	**26 dB BW (㎒)**	**11+10LogB (㏈m)**	**Antenna gain (㏈i)**	**Limit (㏈)**
U-NII 2A	5 270	24	41.88	27.22	-1.58	24
	5 310	24	42.22	27.26	-1.58	24
U-NII 2C	5 510	24	42.18	27.25	-0.13	24
	5 550	24	41.68	27.20	-0.13	24
	5 670	24	41.74	27.21	-0.13	24

Mode	Duty cycle									
	Data Rate [MCS]									
11ac_VHT40	0	1	2	3	4	5	6	7	8	9
Duty Cycle (%)	82	73	66	62	55	50	47	47	44	44
Correction factor (㏈)	0.86	1.37	1.80	2.08	2.60	3.01	3.28	3.28	3.57	3.57

Remark:

1. Result (㏈m) = Average (㏈m) + Correction factor (㏈)
2. Duty cycle (%) = (Tx on time / Tx on + off time) x 100
3. Correction factor (㏈) = 10 log (1/duty cycle (㎳))

- 11ac_VHT80

Band	Power	Frequency (㎒)	Conducted Power (㏈m)									
			Data Rate [MCS]									
			0	1	2	3	4	5	6	7	8	9
U-NII 1	Mea. Average	5 210	8.56	7.71	7.20	6.87	6.45	6.17	5.98	6.02	5.91	5.30
	Result		10.05	10.23	10.04	10.15	10.02	10.04	10.18	10.22	10.11	10.39
U-NII 2A	Mea. Average	5 290	8.30	7.47	7.02	6.62	6.16	6.92	5.82	5.76	5.63	5.25
	Result		9.79	9.99	9.86	9.90	9.73	9.79	10.02	9.96	9.83	10.34
U-NII 2C	Mea. Average	5 530	7.87	7.09	6.65	6.22	5.81	5.43	5.45	5.31	5.20	4.96
	Result		9.36	9.61	9.49	9.50	9.38	9.30	9.65	9.51	9.40	10.05

Band	Conducted Power Limit (㏈m)					
	Frequency (㎒)	Fixed Limit (㏈m)	26 dB BW (㎒)	4+10LogB (㏈m)	Antenna gain (㏈i)	Limit (㏈)
U-NII 1	5 210	17	84.22	23.25	-1.58	17
Band	**Frequency (㎒)**	**Fixed Limit (㏈m)**	**26 dB BW (㎒)**	**11+10LogB (㏈m)**	**Antenna gain (㏈i)**	**Limit (㏈)**
U-NII 2A	5 290	24	82.53	30.17	-1.58	24
U-NII 2C	5 530	24	83.35	30.21	-0.13	24

Mode	Duty cycle									
	Data Rate [MCS]									
11ac_VHT80	0	1	2	3	4	5	6	7	8	9
Duty Cycle (%)	71	56	52	47	44	41	38	38	38	31
Correction factor (dB)	1.49	2.52	2.84	3.28	3.57	3.87	4.20	4.20	4.20	5.09

Remark:
1. Result (㏈m) = Average (㏈m) + Correction factor (㏈)
2. Duty cycle (%) = (Tx on time / Tx on + off time) x 100
3. Correction factor (㏈) = 10 log (1/duty cycle (㎳))