



FCC - TEST REPORT

Report Number	: 68.950.15.289.01	Date of Issue: <u>October 29, 2015</u>
Model	: Le Max	
Product Type	: TD LTE digital mobile phone	
Applicant	: Lemobile Information Technology (Beijing) Co., Ltd	
Address	: WENHUAYING NORTH (No.1, LINKONG 2nd St), GAOLIYING, SHUNYI DISTRICT, BEIJING, China	
Production Facility	: MAINTEK COMPUTER (SUZHOU) CO LTD	
Address	: NO. 233, JIN FENG ROAD, NEW DISTRICT, SUZHOU, CHINA	
Test Result	: <input checked="" type="checkbox"/> Positive <input type="checkbox"/> Negative	
Total pages including Appendices	: <u>30</u>	

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2 Details about the Test Laboratory

Details about the Test Laboratory

Test Site 1

Company name: TÜV SÜD Certification and Testing (China) Co., Ltd. Shenzhen Branch
Building 12&13, Zhiheng Wisdomland Business Park,
Nantou Checkpoint Road 2, Nanshan District,
Shenzhen City, 518052,
P. R. China

Telephone: 86 755 8828 6998
Fax: 86 755 8828 5299

Test Site 2

Company name: Shenzhen Academy of Metrology and Quality Inspection
National Digital Electronic Product Testing Center
NETC Building, No.4 Tongfa Rd., Xili,
Nanshan, Shenzhen,
China

FCC Registration Number: 97379(open area test site) and
274801(semi anechoic chamber).

Telephone: +86 755 8692 8965
Fax: +86 755 8600 9898-31396

Remark: All test items were performed at Site 2.



3 Description of the Equipment Under Test

Description of the Equipment Under Test

Product:	TD LTE digital mobile phone
Model no.:	Le Max
FCC ID:	2AFWMLEMAX
Brand Name:	Letv
Rating:	DC 3.8V by Li-ion Battery or DC 5.0V/2A by adapter Powered by external power supply: Adaptor Input: 100-240VAC, 50/60Hz; 500mA Adaptor Output: 5.0V, 2A
RF Transmission Frequency:	5.150GHz~5.250GHz; 5.745GHz~5.825GHz
Modulation:	802.11a: BPSK, QPSK, 16QAM, 64QAM, OFDM 802.11n: BPSK, QPSK, 16QAM, 64QAM 802.11ac: BPSK, QPSK, 16QAM, 64QAM, 128QAM, 256QAM
Antenna Type:	PIFA Antenna
Antenna Gain:	-3.1dBi
Description of the EUT:	The Equipment Under Test (EUT) is a Mobile Phone with WIFI function which operated at 5GHz



4 Summary of Test Standards

Test Standards	
FCC Part 15 Subpart E, 10-1-2014 Edition	PART 15 - RADIO FREQUENCY DEVICES Subpart E - Unlicensed National Information Infrastructure Devices
FCC Part 15 Subpart C 10-1-2014 Edition	PART 15 - RADIO FREQUENCY DEVICES Subpart C - Intentional Radiators



5 Summary of Test Results

Technical Requirements				
FCC Part 15 Subpart E, FCC Part 15 Subpart C				
Test Condition	Pages	Test Result		
15.207 Conducted Emission AC Power Port	10	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
15.403(a)(5) Emission bandwidth	14	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
15.407(a)(1) 15.407(a)(3) Maximum Conducted Output Power	30	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
15.407(a)(1) 15.407(a)(3) Peak Power Spectral Density	33	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
15.407(b)(1) 15.407(b)(4) 15.407(b)(6) 15.407(b)(7) 15.209 Unwanted Emissions	46	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Duty Cycle	111	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
15.407(h) Dynamic Frequency Selection (DFS). ^a	---	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

NOTE 1^a: According to 15.407(h) this requirement only applies to transmitters operating in the 5.25–5.35 GHz and 5.47–5.725 GHz bands.

Test Method:

FCC KDB 558074 D01 DTS Meas Guidance v03r02

FCC KDB 662911 D01 Multiple Transmitter Output v02

KDB 789033 D02 General UNII Test Procedures New Rules v01

ANSI C63.10-2013, American National Standard for Testing Unlicensed Wireless Devices



6 General Remarks

Remarks

This submittal(s) (test report) is intended for FCC ID: 2AFWMLEMAX complies with Section FCC Part 15, Subpart E Rules.

SUMMARY:

All tests according to the regulations cited on page 5 were

- Performed

- Not Performed

The Equipment Under Test

- Fulfills the general approval requirements.

- Does not fulfill the general approval requirements.

Sample Received Date: September 6, 2015

Testing Start Date: September 7, 2015

Testing End Date: October 27, 2015

- TÜV SÜD Certification and Testing (China) Co., Ltd. Shenzhen Branch –

Reviewed by:

A handwritten signature in black ink, appearing to read "John Zhi".

John Zhi
EMC Project Manager

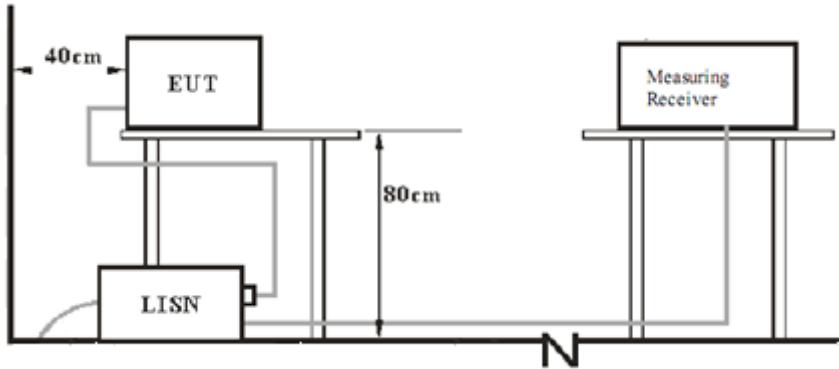
Prepared by:

A handwritten signature in black ink, appearing to read "Alan Xiong".

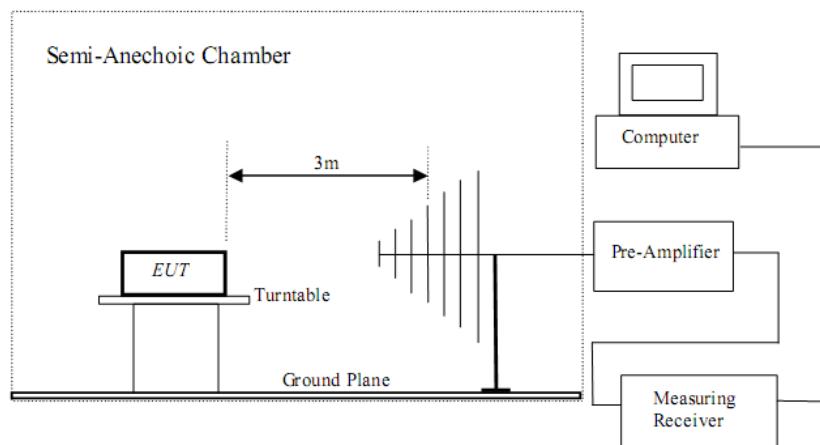
Alan Xiong
EMC Project Engineer

7 Test setups

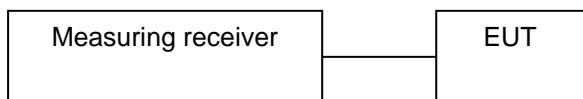
7.1 AC Power Line Conducted Emission test setups



7.2 Radiated test setups



7.3 Conducted RF test setups





8.Technical Requirement

Auxiliary Equipment Used during Test:

DESCRIPTION	MANUFACTURER	MODEL NO.(SHIELD)	S/N(LENGTH)
---	---	---	---

The system was configured to channel 36(5180MHz), 40(5200MHz), and 48(5240MHz) for 802.11a & 802.11n-HT20, Channel 38(5190MHz); 46(5230MHz) for 802.11n-HT40, Channel 42(5210MHz) for 802.11ac VHT80.



9 Technical Requirement

9.1 Conducted Emission

Test Method

1. The EUT was placed on a table, which is 0.8m above ground plane
2. The power line of the EUT is connected to the AC mains through a Artificial Mains Network (A.M.N.).
3. Maximum procedure was performed to ensure EUT compliance
4. A EMI test receiver is used to test the emissions from both sides of AC line

Limit

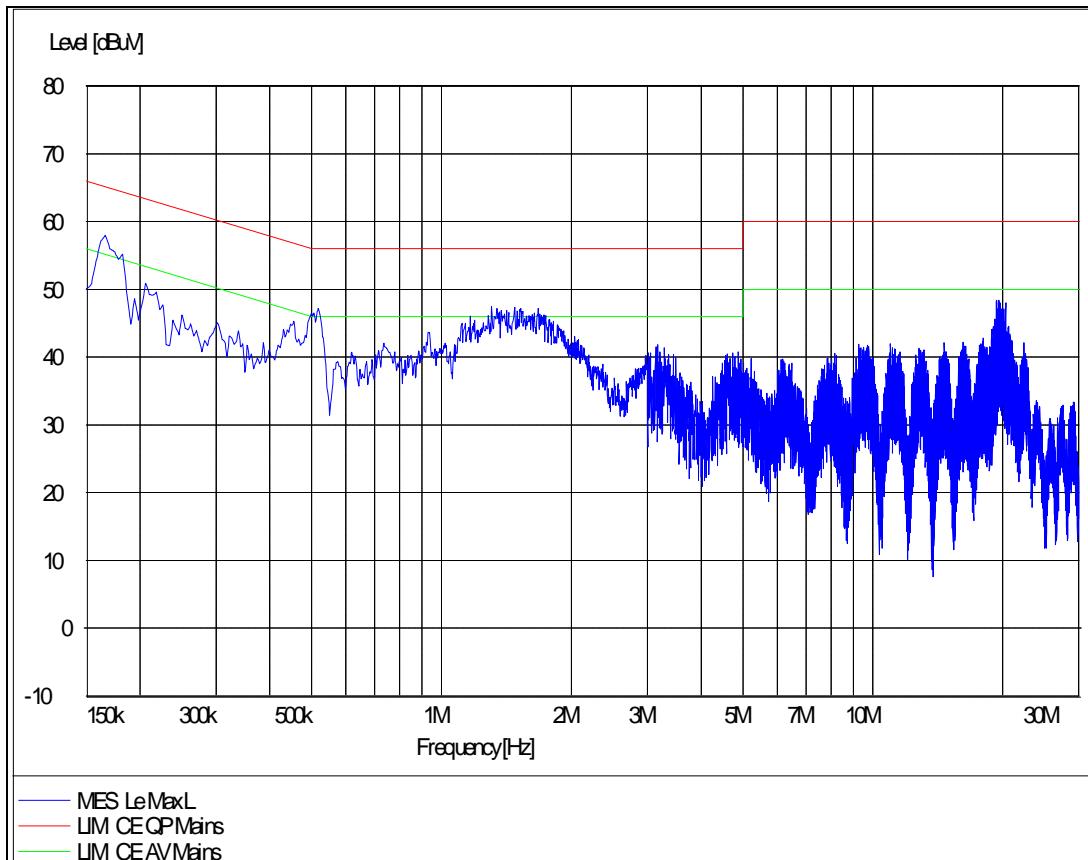
Frequency MHz	QP Limit dB μ V	AV Limit dB μ V
0.150-0.500	66-56*	56-46*
0.500-5	56	46
5-30	60	50

Decreasing linearly with logarithm of the frequency



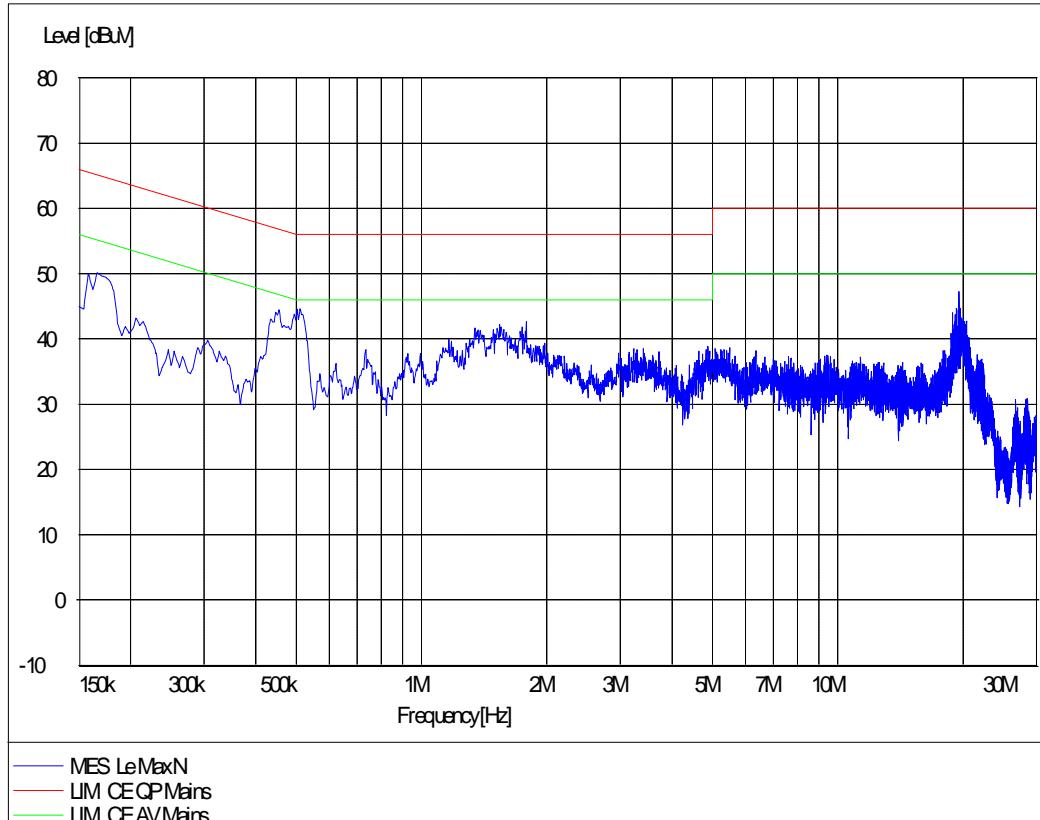
Conducted Emission

Product Type : TD LTE digital mobile phone
M/N : Le Max
Operating Condition : Charging and Transmitting
Test Specification : Line
Comment : AC 120V/60Hz



Conducted Emission

Product Type : TD LTE digital mobile phone
M/N : Le Max
Operating Condition : Charging and Transmitting
Test Specification : Neutral
Comment : AC 120V/60Hz





Conducted Emission

Model No.: Le Max

Test mode: Charging and transmitter

	Frequency (MHz)	Correction Factor (dB)	Quasi-Peak			Average		
			Reading (dB μ V)	Emission Level (dB μ V)	Limits (dB μ V)	Reading (dB μ V)	Emission Level (dB μ V)	Limits (dB μ V)
Line	0.166	9.7	38.5	48.2	65.2	22.3	32.0	55.2
	0.518	9.8	32.4	42.2	56.0	22.9	32.7	46.0
	1.342	9.8	31.6	41.4	56.0	21.0	30.8	46.0
	1.498	9.8	31.7	41.5	56.0	21.4	31.2	46.0
	1.670	9.8	30.9	40.7	56.0	20.6	30.4	46.0
	19.384	9.9	32.4	42.3	60.0	22.8	32.7	50.0
Neutral	0.446	9.7	29.7	39.4	56.9	22.9	32.6	46.9
	0.510	9.8	29.7	39.5	56.0	22.2	32.0	46.0
	1.538	9.8	26.8	36.6	56.0	19.4	29.2	46.0
	19.512	9.9	27.6	37.5	60.0	21.7	31.6	50.0
	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--

REMARKS: 1. Emission level(dBuV)=Read Value(dBuV) + Correction Factor(dB)
2. Correction Factor(dB) =LISN Factor (dB) + Cable Factor (dB)+Limiter Factor(dB)
3. The other emission levels were very low against the limit.



9.2 Emission bandwidth

1、Test Method of 26dB Bandwidth

According to KDB789033 D02

- a) Set RBW = approximately 1% of the emission bandwidth.
- b) Set the VBW > RBW.
- c) Detector = Peak.
- d) Trace mode = max hold.
- e) Measure the maximum width of the emission that is 26 dB down from the maximum of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.

Limit: No limit

2、Test Method of 6dB Bandwidth

According to KDB789033 D02

- a) Set RBW = 100KHz
- b) Set the video bandwidth (VBW) $\geq 3 \times$ RBW
- c) Detector = Peak.
- d) Trace mode = max hold.
- e) Sweep = auto couple.
- f) Allow the trace to stabilize.
- g) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

Limit: $\geq 500\text{KHz}$

3、Test Method of 99% Bandwidth

According to KDB789033 D02

- a) Set center frequency to the nominal EUT channel center frequency
- b) Set span = 1.5 times to 5.0 times the OBW.
- c) Set RBW = 1 % to 5 % of the OBW
- d) Set VBW $\geq 3 \cdot$ RBW
- e) Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Otherwise, peak detection and max hold mode (until the trace stabilizes) shall be used.
- f) Use the 99 % power bandwidth function of the instrument (if available).
- g) If the instrument does not have a 99 % power bandwidth function, the trace data points are recovered and directly summed in power units. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5 % of the total is reached; that frequency is recorded as the lower frequency. The process is repeated until 99.5 % of the total is reached; that frequency is recorded as the upper frequency. The 99% occupied bandwidth is the difference between these two frequencies.

Limit: No limit

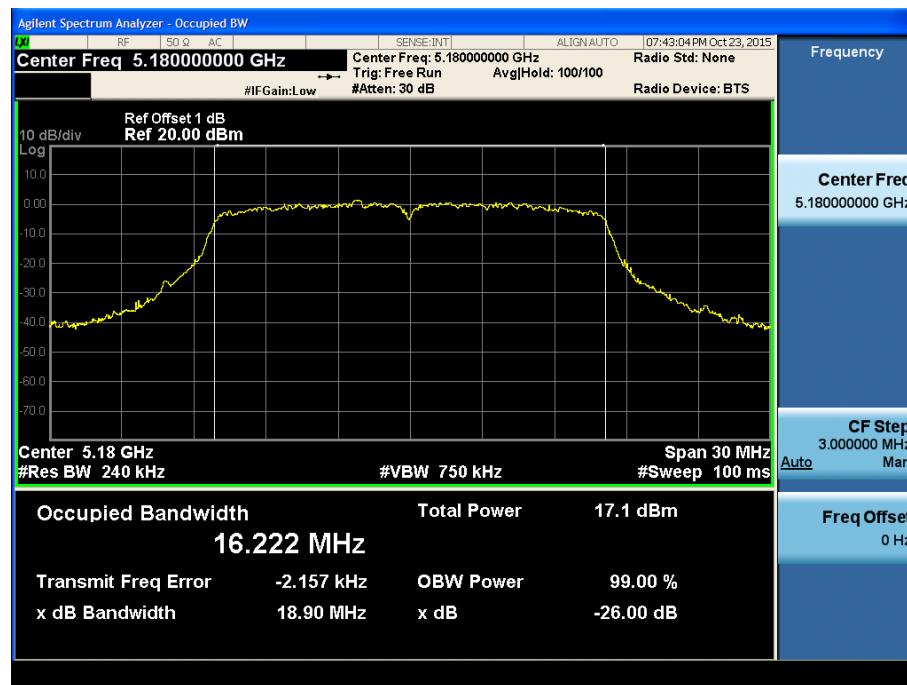


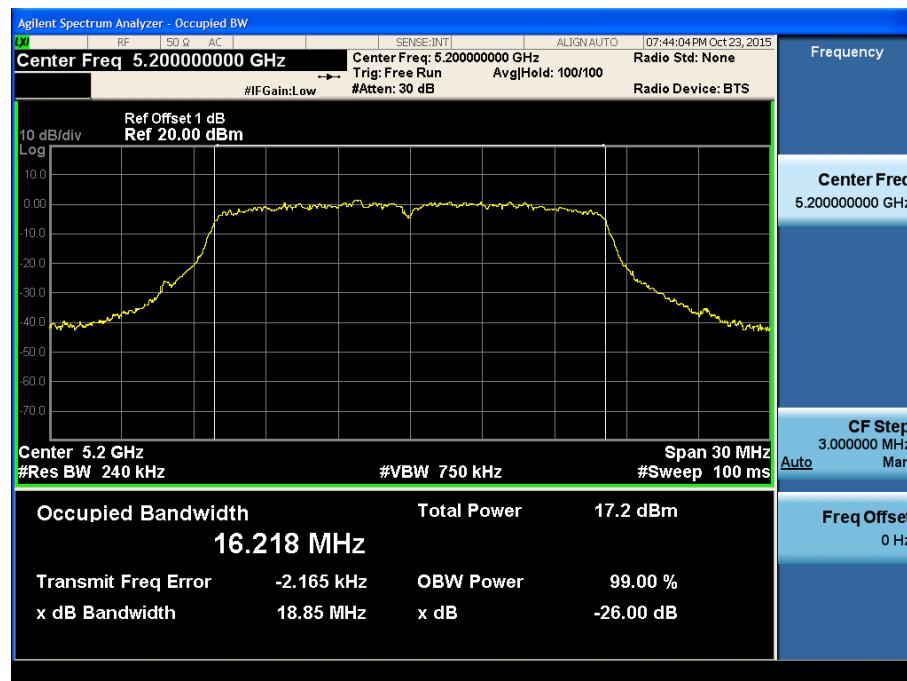
Test result as below table:

For the 5.2G Band

IEEE 802.11a modulation Test Result

Channel	Channel Frequency (MHz)	Measured 99% Bandwidth (MHz)	Measured 26dB Bandwidth (MHz)
Low	5180	16.222	18.90
Mid	5200	16.218	18.85
High	5240	16.208	18.95

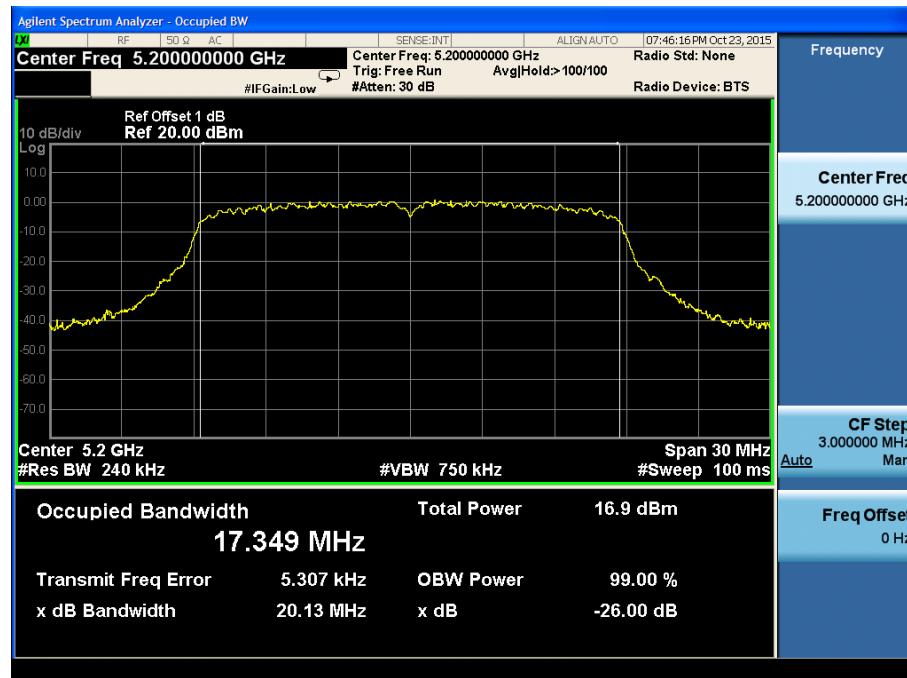
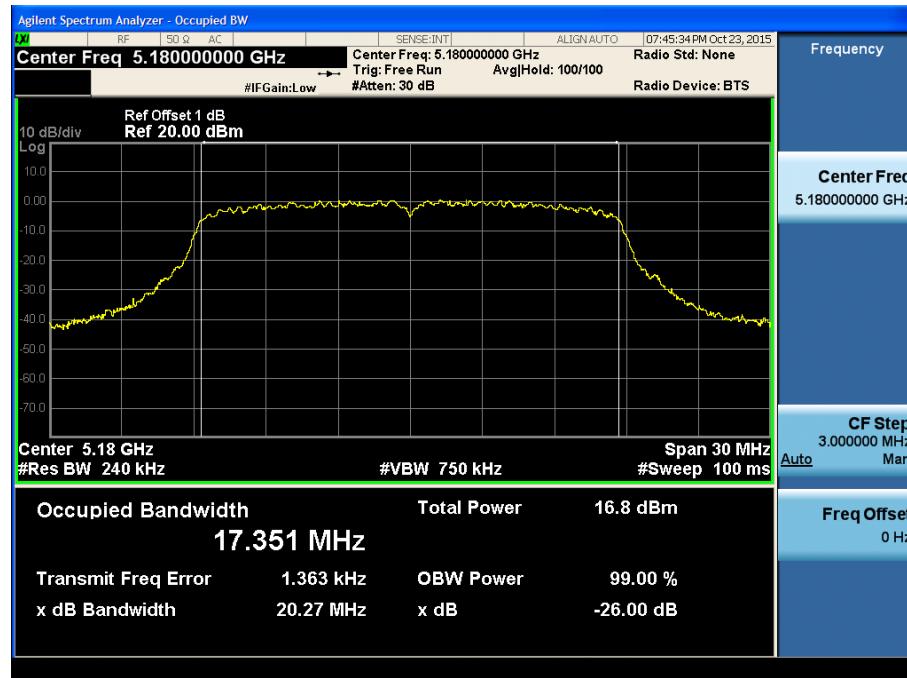






IEEE 802.11n-HT20 modulation Test Result

Channel	Channel Frequency (MHz)	Measured 99% Bandwidth (MHz)	Measured 26dB Bandwidth (MHz)
Low	5180	17.351	20.27
Mid	5200	17.349	20.13
High	5240	17.343	20.06



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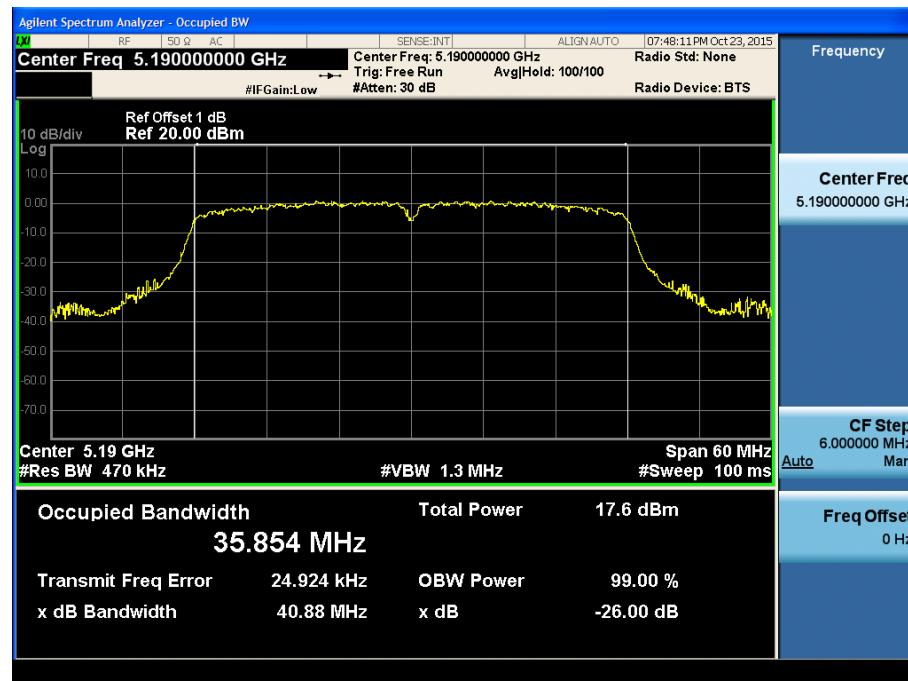
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Fax: +86 755 8828 5299



IEEE 802.11n-HT40 modulation Test Result

Channel	Channel Frequency (MHz)	Measured 99% Bandwidth (MHz)	Measured 26dB Bandwidth (MHz)
Low	5190	35.854	40.88
High	5230	35.837	40.59





IEEE 802.11ac-VHT80 modulation Test Result

Channel	Channel Frequency (MHz)	Measured 99% Bandwidth (MHz)	Measured 26dB Bandwidth (MHz)
Mid	5210	75.070	83.43

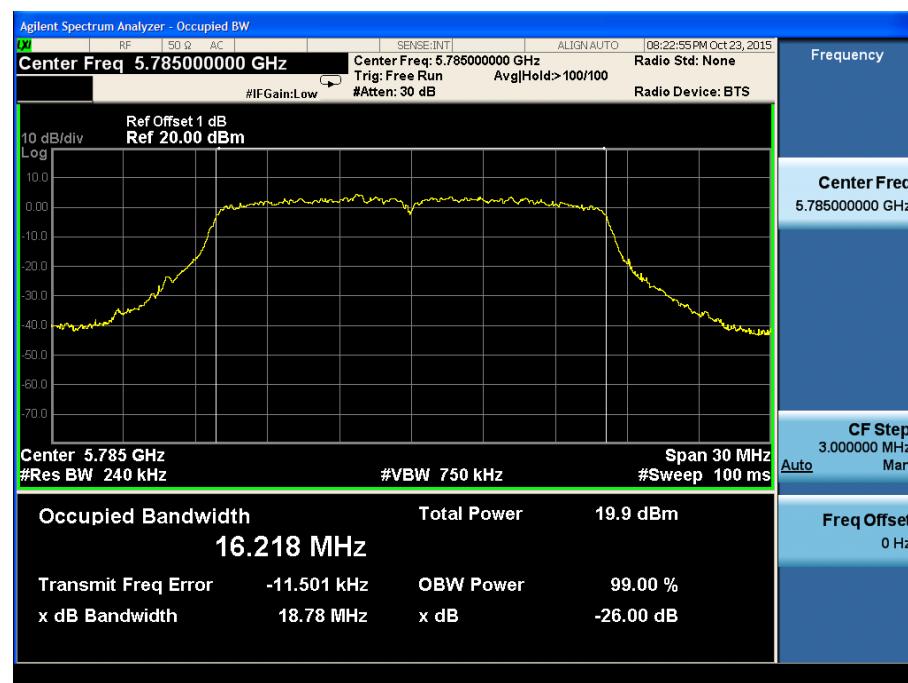
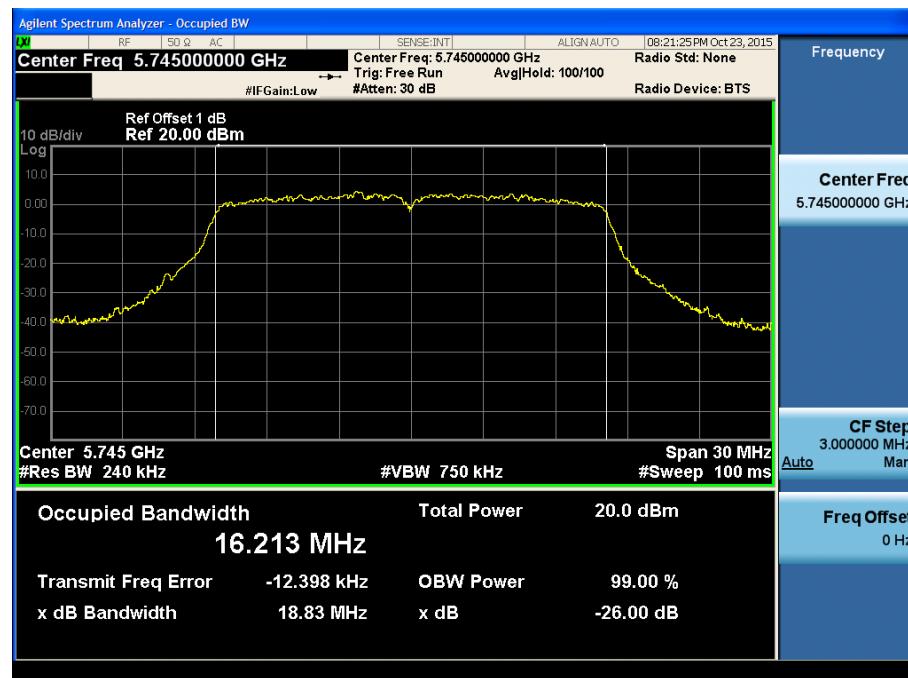




For the 5.8G Band

IEEE 802.11a modulation Test Result

Channel	Channel Frequency (MHz)	Measured 99% Bandwidth (MHz)	Measured 26dB Bandwidth (MHz)
Low	5745	16.213	18.83
Mid	5785	16.218	18.78
High	5825	16.222	18.93



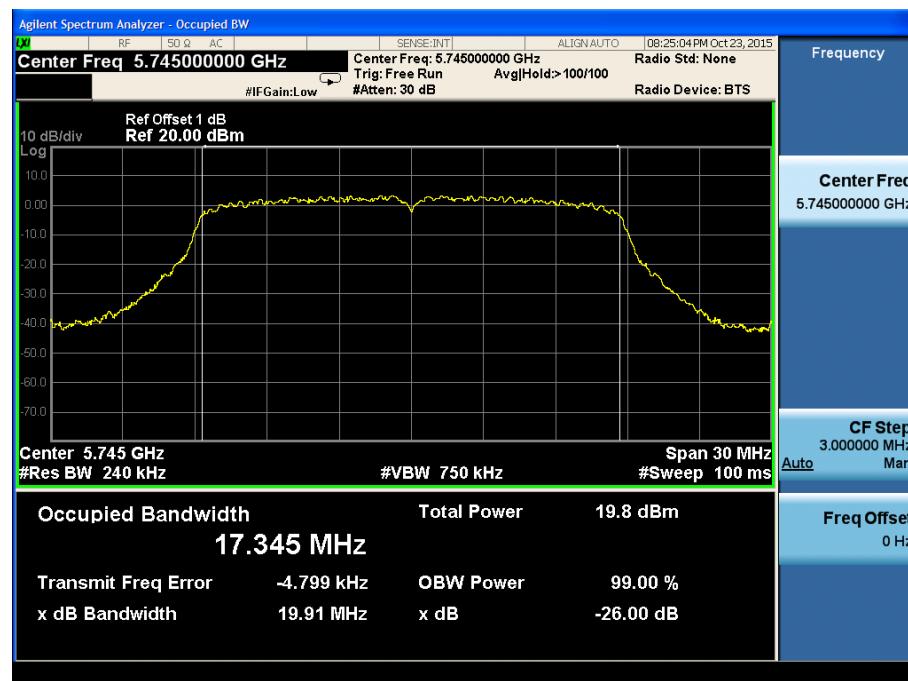
Report Number: 68.950.15.289.01

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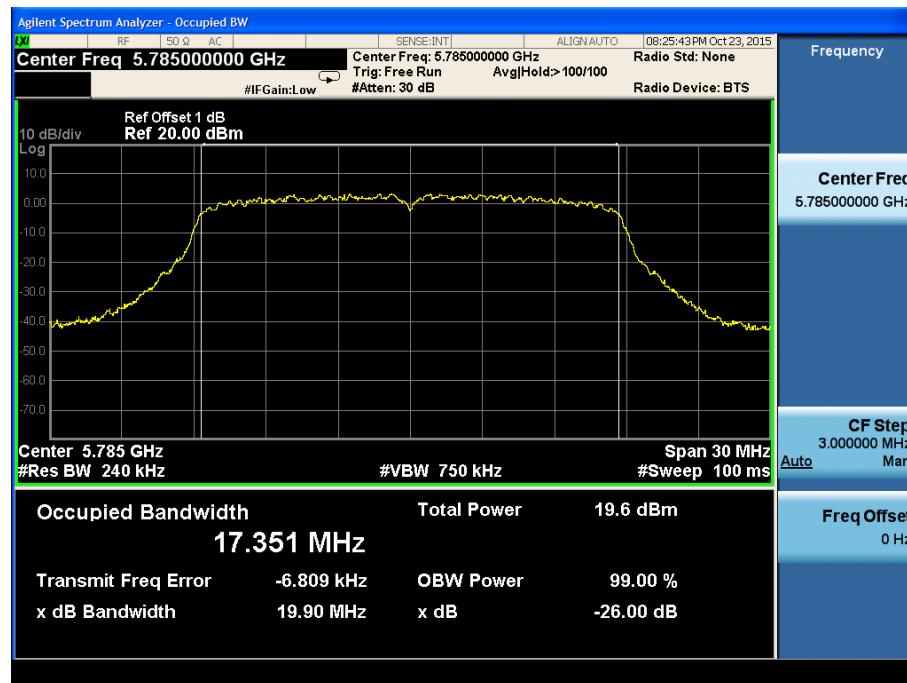
IEEE 802.11n-HT20 modulation Test Result

Channel	Channel Frequency (MHz)	Measured 99% Bandwidth (MHz)	Measured 26dB Bandwidth (MHz)
Low	5745	17.345	19.91
Mid	5785	17.351	19.90
High	5825	17.357	19.92



Report Number: 68.950.15.289.01

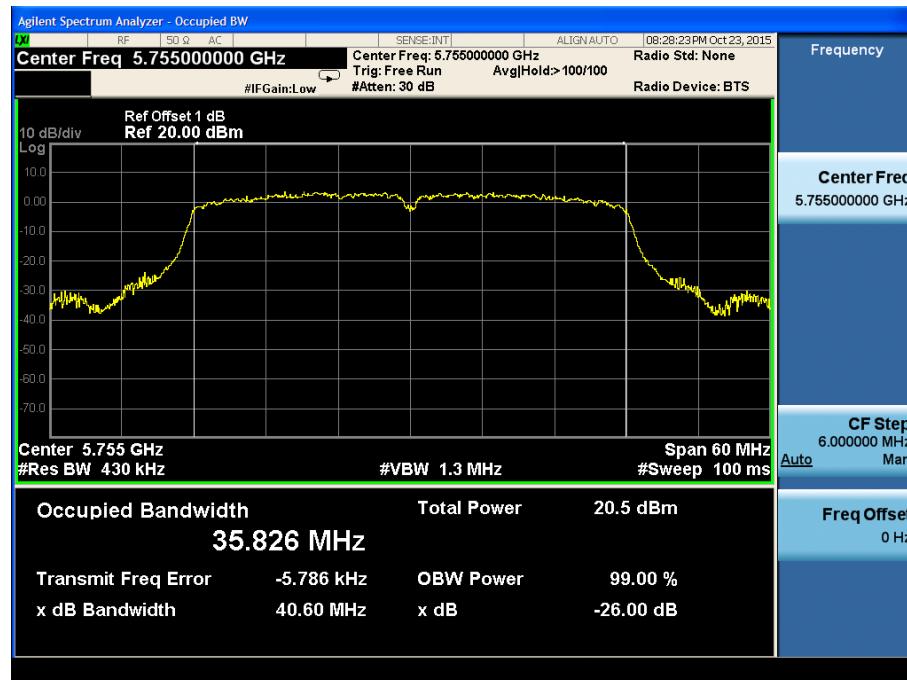
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IEEE 802.11n-HT40 modulation Test Result

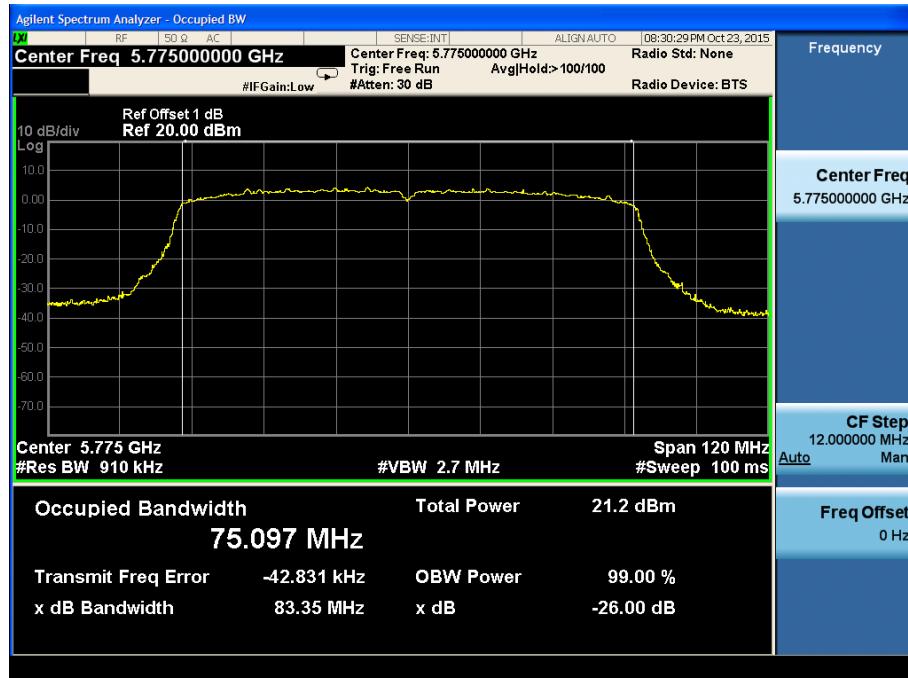
Channel	Channel Frequency (MHz)	Measured 99% Bandwidth (MHz)	Measured 26dB Bandwidth (MHz)
Low	5755	35.826	40.60
High	5795	35.840	40.73





IEEE 802.11ac-VHT80 modulation Test Result

Channel	Channel Frequency (MHz)	Measured 99% Bandwidth (MHz)	Measured 26dB Bandwidth (MHz)
Mid	5775	75.097	83.35

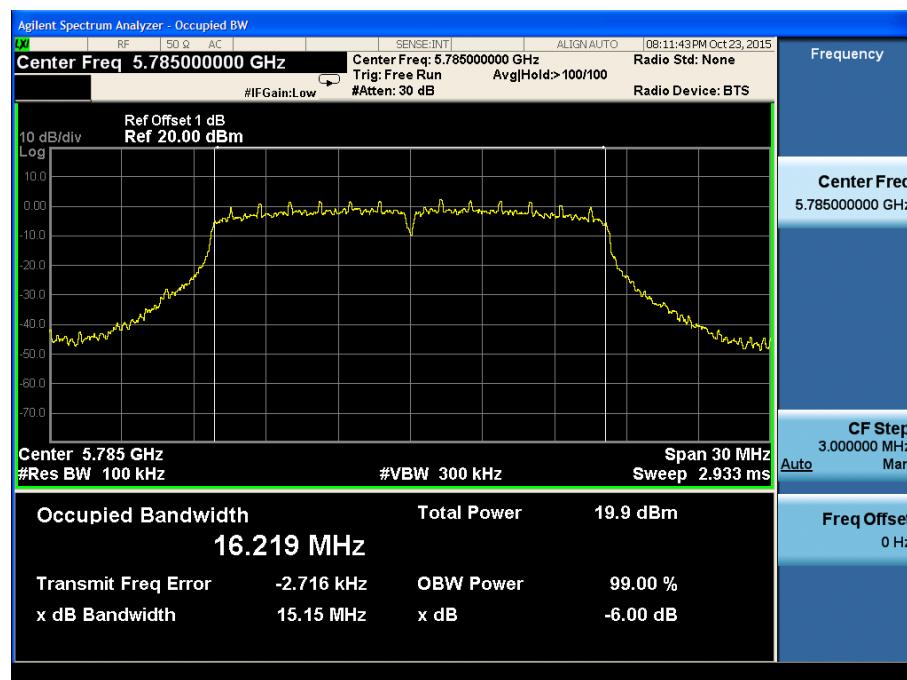




For the 5.8G Band

IEEE 802.11a modulation Test Result

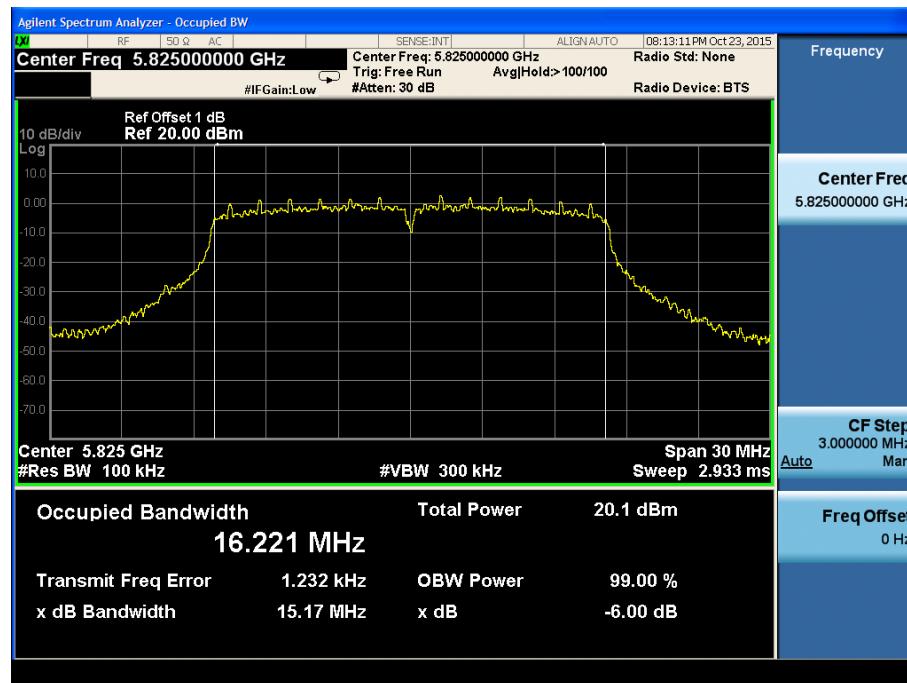
Channel	Channel Frequency (MHz)	Measured 6dB Bandwidth (MHz)	Limit (MHz)	Results
Low	5745	15.55	0.5	Pass
Mid	5785	15.15	0.5	Pass
High	5825	15.17	0.5	Pass



Report Number: 68.950.15.289.01

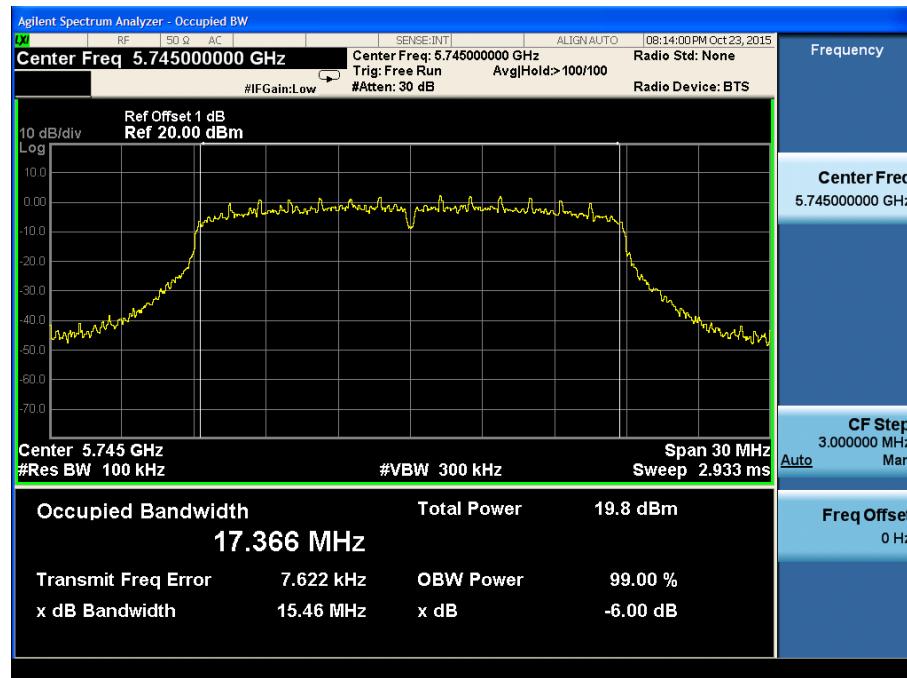
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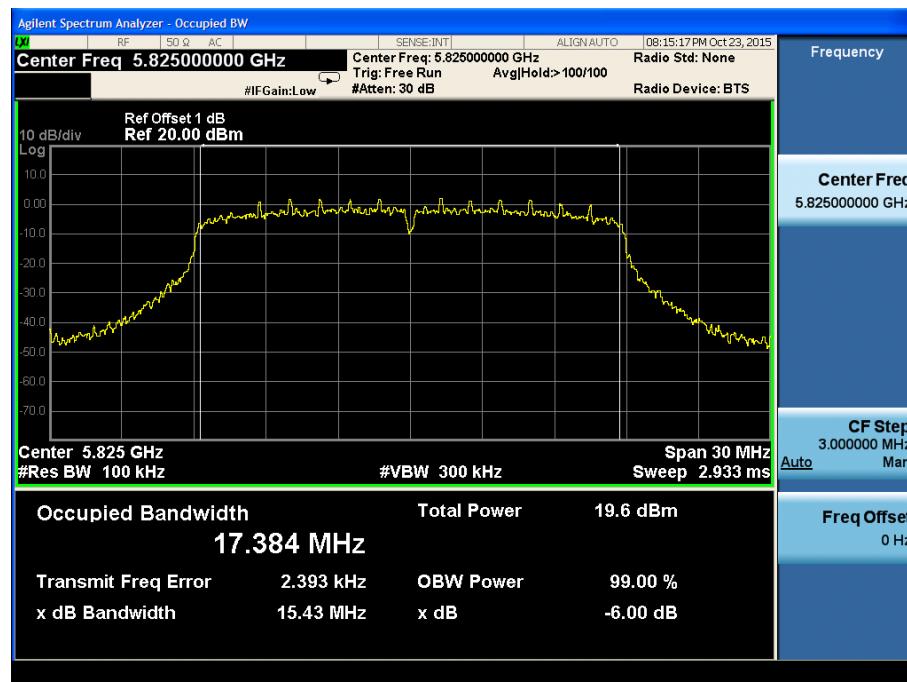
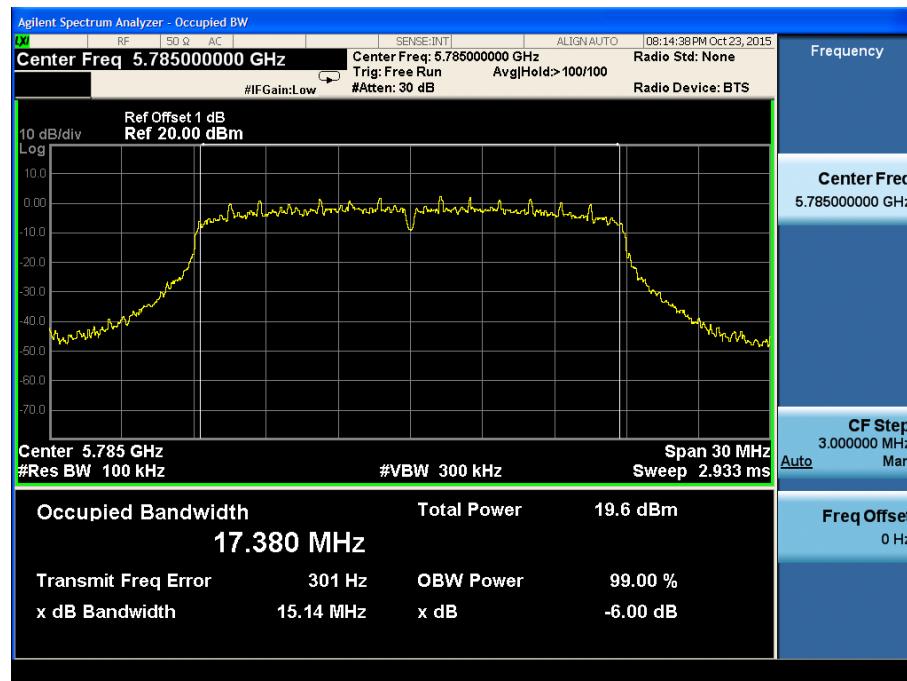
IEEE 802.11n-HT20 modulation Test Result

Channel	Channel Frequency (MHz)	Measured 6dB Bandwidth (MHz)	Limit (MHz)	Results
Low	5745	15.46	0.5	Pass
Mid	5785	15.14	0.5	Pass
High	5825	15.43	0.5	Pass



Report Number: 68.950.15.289.01

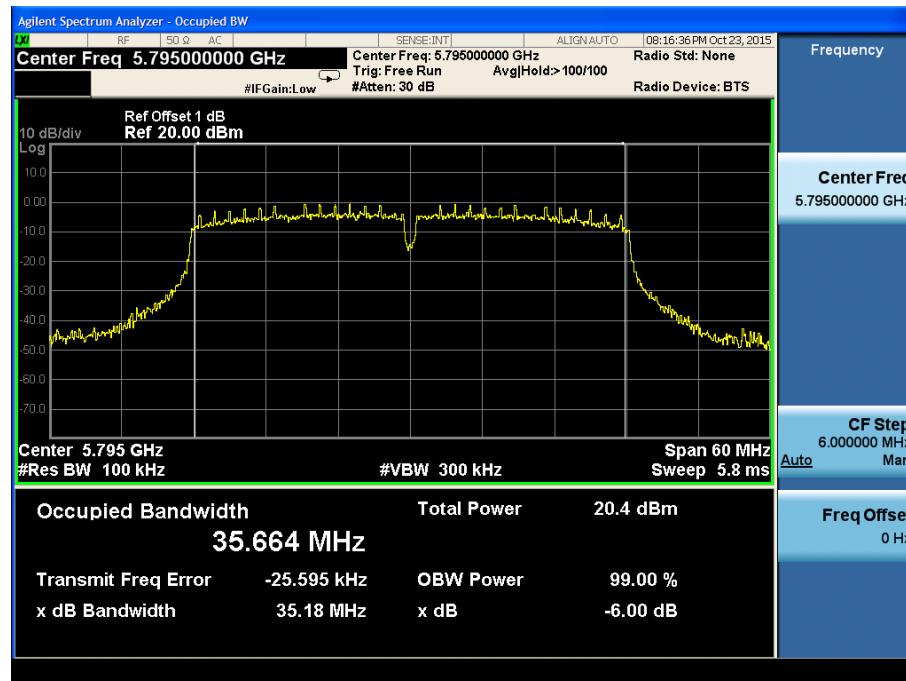
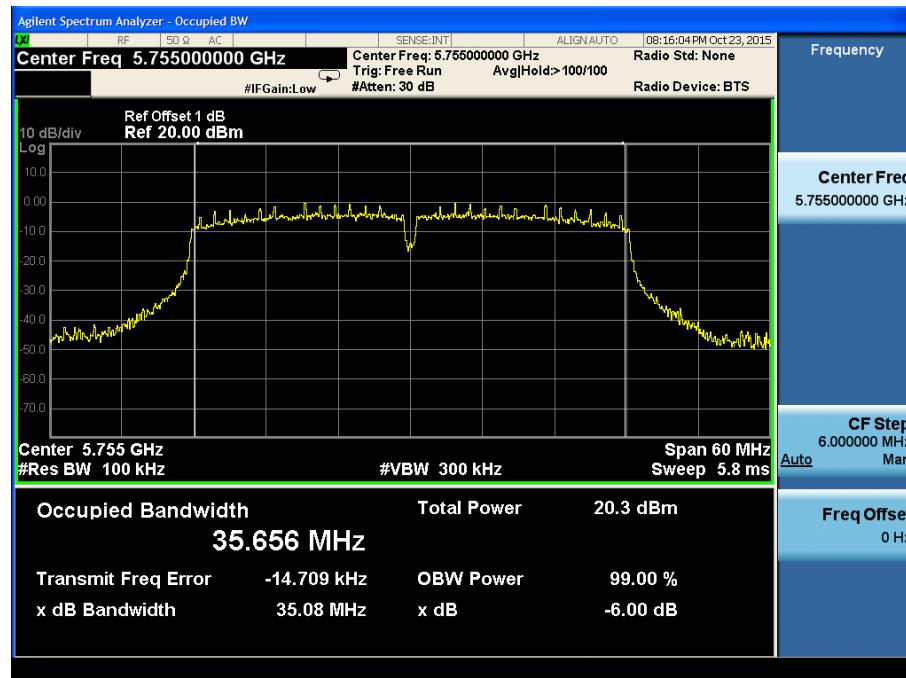
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IEEE 802.11n-HT40 modulation Test Result

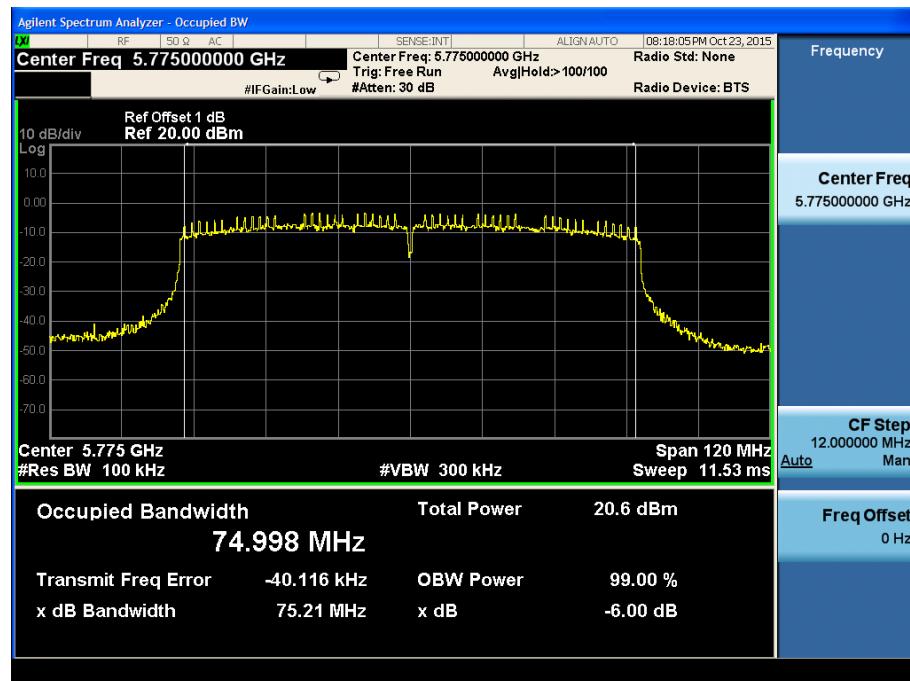
Channel	Channel Frequency (MHz)	Measured 6dB Bandwidth (MHz)	Limit (MHz)	Results
Low	5755	35.08	0.5	Pass
High	5795	35.18	0.5	Pass





IEEE 802.11ac-VHT80 modulation Test Result

Channel	Channel Frequency (MHz)	Measured 6dB Bandwidth (MHz)	Limit (MHz)	Results
Mid	5775	75.21	0.5	Pass





9.3 Maximum conducted output power

Test Method

According to KDB789033 D02

Limits: The maximum conducted output power over the frequency band of operation shall not exceed 250mW for the 5.2GHz Band and 1W for 5.8GHz Band, provided the maximum antenna gain does not exceed 6dBi.

Test result as below table

For the 5.2GHz Band

IEEE 802.11a modulation Test Result

Duty Cycle CF(dB)	0.24	Included in Calculations of Corr'd Power & PSD
-------------------	------	--

Channel	Frequency (MHz)	Average Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)
Low	5180	12.40	12.64	24.00
Mid	5200	12.39	12.63	24.00
High	5240	12.58	12.82	24.00

IEEE 802.11n-HT20 modulation Test Result

Duty Cycle CF(dB)	0.21	Included in Calculations of Corr'd Power & PSD
-------------------	------	--

Channel	Frequency (MHz)	Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)
Low	5180	12.15	12.36	24.00
Mid	5200	12.16	12.37	24.00
High	5240	12.35	12.56	24.00

IEEE 802.11n-HT40 modulation Test Result

Duty Cycle CF(dB)	0.42	Included in Calculations of Corr'd Power & PSD
-------------------	------	--

Channel	Frequency (MHz)	Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)
Low	5190	12.56	12.98	24.00
High	5230	12.75	13.17	24.00



IEEE 802.11ac-VHT80 modulation Test Result

Duty Cycle CF(dB)	0.82	Included in Calculations of Corr'd Power & PSD
-------------------	------	--

Channel	Frequency (MHz)	Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)
Mid	5210	12.08	12.90	24.00

For the 5.8GHz Band

IEEE 802.11a modulation Test Result

Duty Cycle CF(dB)	0.24	Included in Calculations of Corr'd Power & PSD
-------------------	------	--

Channel	Frequency (MHz)	Average Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)
Low	5745	12.73	12.97	30.00
Mid	5785	12.78	13.02	30.00
High	5825	12.95	13.19	30.00

IEEE 802.11n-HT20 modulation Test Result

Duty Cycle CF(dB)	0.21	Included in Calculations of Corr'd Power & PSD
-------------------	------	--

Channel	Frequency (MHz)	Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)
Low	5745	12.46	12.67	30.00
Mid	5785	12.54	12.75	30.00
High	5825	12.70	12.91	30.00

IEEE 802.11n-HT40 modulation Test Result

Duty Cycle CF(dB)	0.42	Included in Calculations of Corr'd Power & PSD
-------------------	------	--

Channel	Frequency (MHz)	Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)
Low	5755	12.80	13.22	30.00
High	5795	13.14	13.56	30.00



IEEE 802.11ac-VHT80 modulation Test Result

Duty Cycle CF(dB)	0.82	Included in Calculations of Corr'd Power & PSD
-------------------	------	--

Channel	Frequency (MHz)	Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)
Mid	5775	12.25	13.07	30.00



9.4 Maximum power spectral density

Test Method

According to KDB789033 D02

For devices operating in the bands 5.15-5.25 GHz, 5.25-5.35 GHz, and 5.47-5.725 GHz, the above procedures make use of 1 MHz RBW to satisfy directly the 1 MHz reference bandwidth specified in § 15.407(a)(5). For devices operating in the band 5.725-5.85 GHz, the rules specify a measurement bandwidth of 500 kHz. Many spectrum analyzers do not have 500 kHz RBW, thus a narrower RBW may need to be used. The rules permit the use of a RBWs less than 1 MHz, or bandwidth" to show the total power over the specified measurement bandwidth (i.e., 1 MHz, or 500 kHz). If measurements are performed using a reduced resolution bandwidth (< 1 MHz, or < 500 kHz) and integrated over 1 MHz, or 500 KHz bandwidth, the following adjustments to the procedures apply:

- a) Set RBW $\geq 1/T$, where T is defined in section II.B.I.a).
- b) Set VBW ≥ 3 RBW.
- c) If measurement bandwidth of Maximum PSD is specified in 500 kHz, add $10\log(500\text{kHz}/\text{RBW})$ to the measured result, whereas RBW (< 500 KHz) is the reduced resolution bandwidth of the spectrum analyzer set during measurement.
- d) If measurement bandwidth of Maximum PSD is specified in 1 MHz, add $10\log(1\text{MHz}/\text{RBW})$ to the measured result, whereas RBW (< 1 MHz) is the reduced resolution bandwidth of spectrum analyzer set during measurement.
- e) Care must be taken to ensure that the measurements are performed during a period of continuous transmission or are corrected upward for duty cycle.

Note: As a practical matter, it is recommended to use reduced RBW of 100 KHz for the sections 5.c) and 5.d) above, since RBW=100 KHZ is available on nearly all spectrum analyzers.

Limit: The maximum power spectral density shall not exceed 11dBm for the 5.2GHz Band and 30dBm for the 5.8GHz Band in any 1 megahertz band.

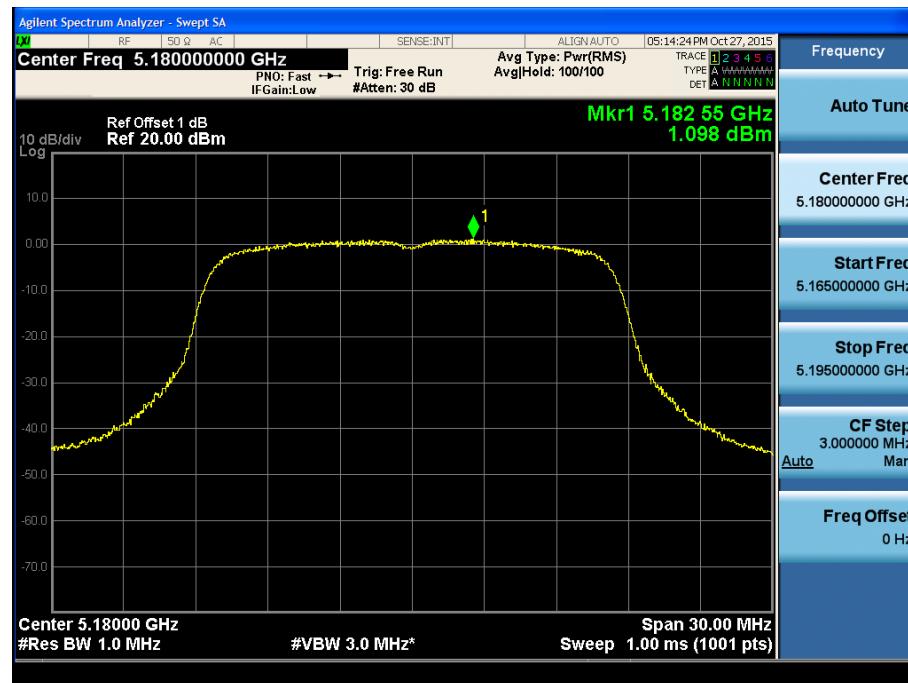


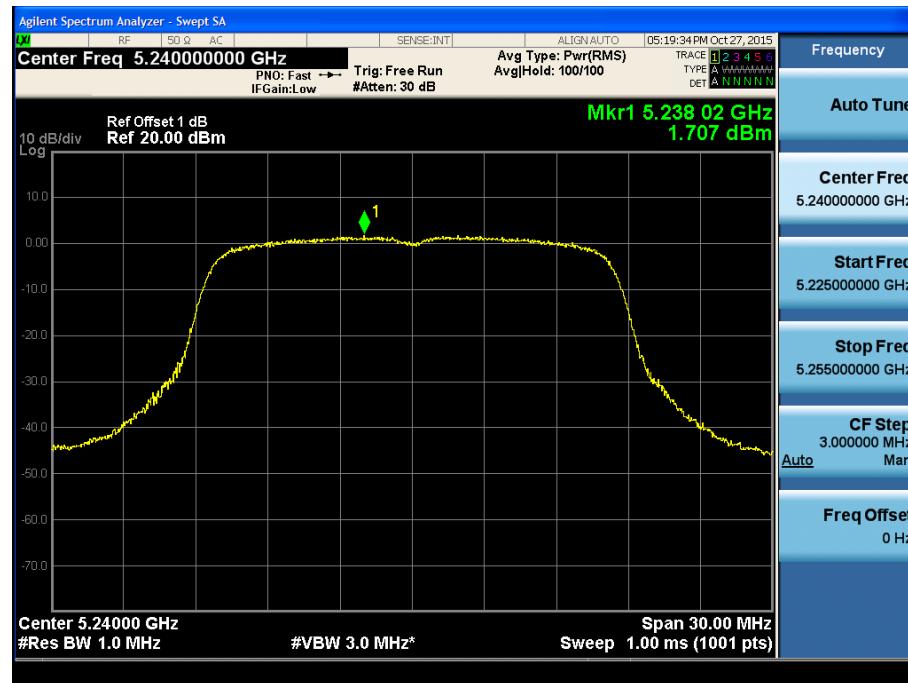
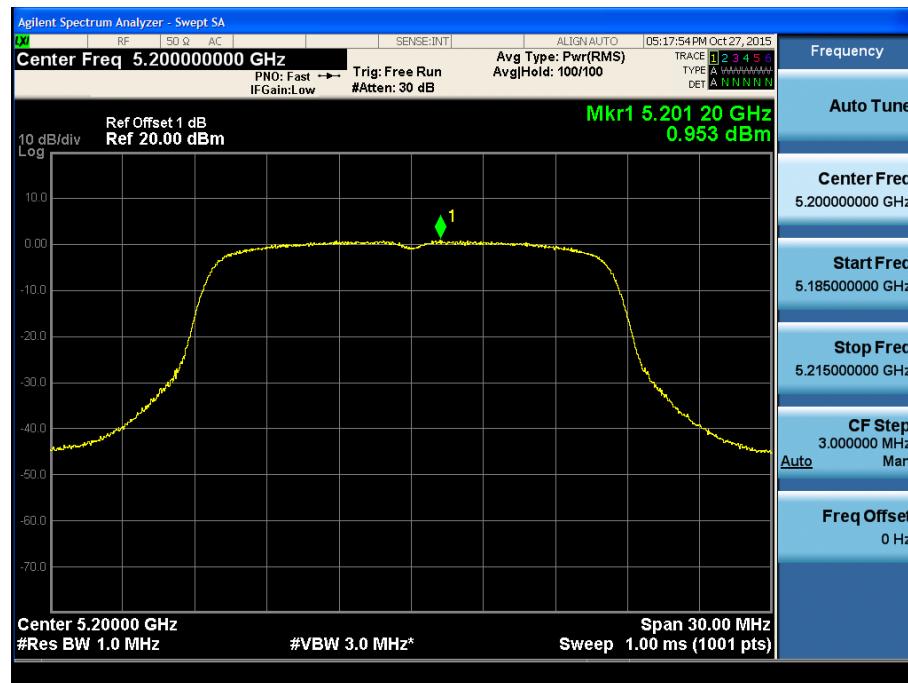
For the 5.2GHz Band

IEEE 802.11a modulation Test Result

Duty Cycle CF(dB)	0.24	Included in Calculations of Corr'd Power & PSD
-------------------	------	--

Channel	Frequency (MHz)	Meas PSD (dBm)	Total Corr'd PSD (dBm)	PSD Limit (dBm)
Low	5180	1.098	1.338	11.00
Mid	5200	0.953	1.193	11.00
High	5240	1.707	1.947	11.00





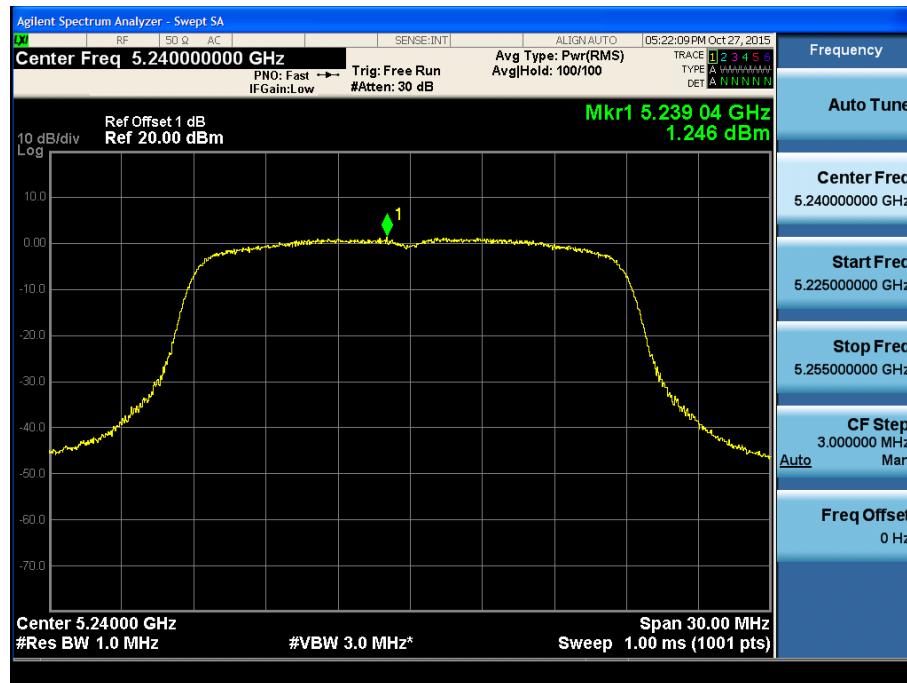
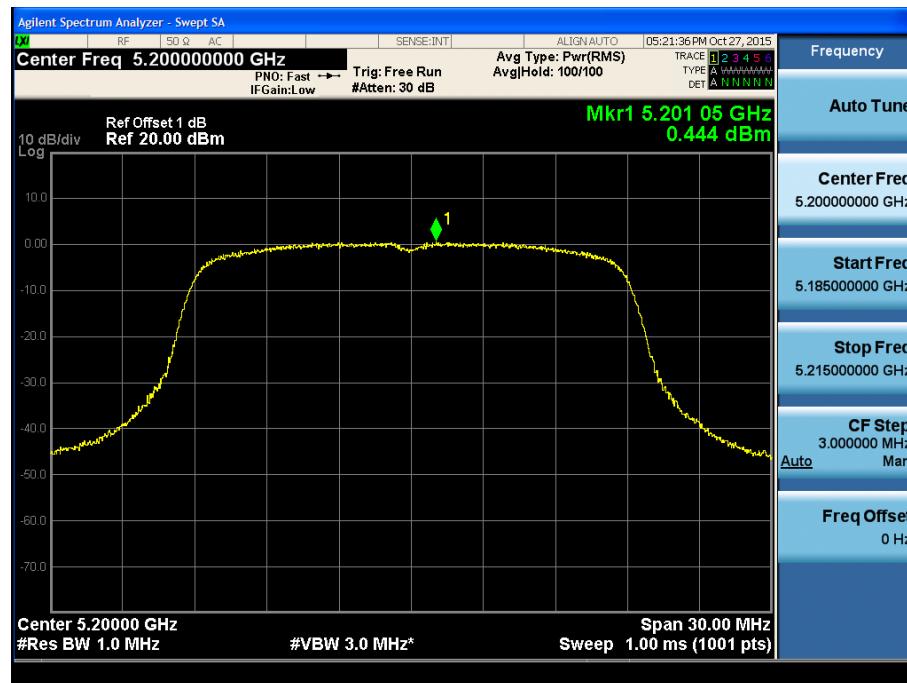


IEEE 802.11n-HT20 modulation Test Result

Duty Cycle CF(dB)	0.21	Included in Calculations of Corr'd Power & PSD
-------------------	------	--

Channel	Frequency (MHz)	Meas PSD (dBm)	Total Corr'd PSD (dBm)	PSD Limit (dBm)
Low	5180	0.441	0.651	11.00
Mid	5200	0.444	0.654	11.00
High	5240	1.246	1.456	11.00



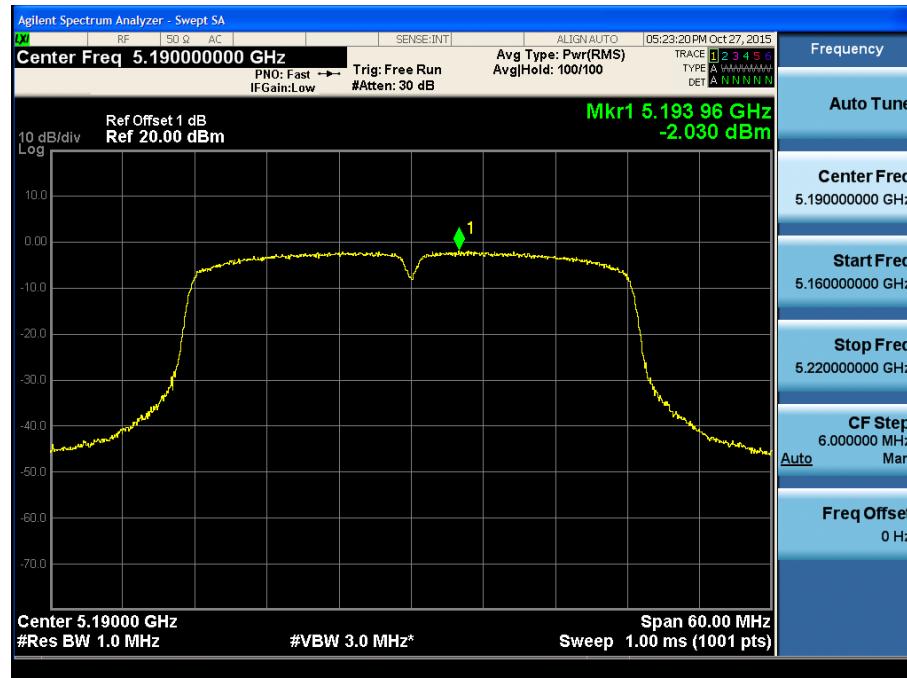


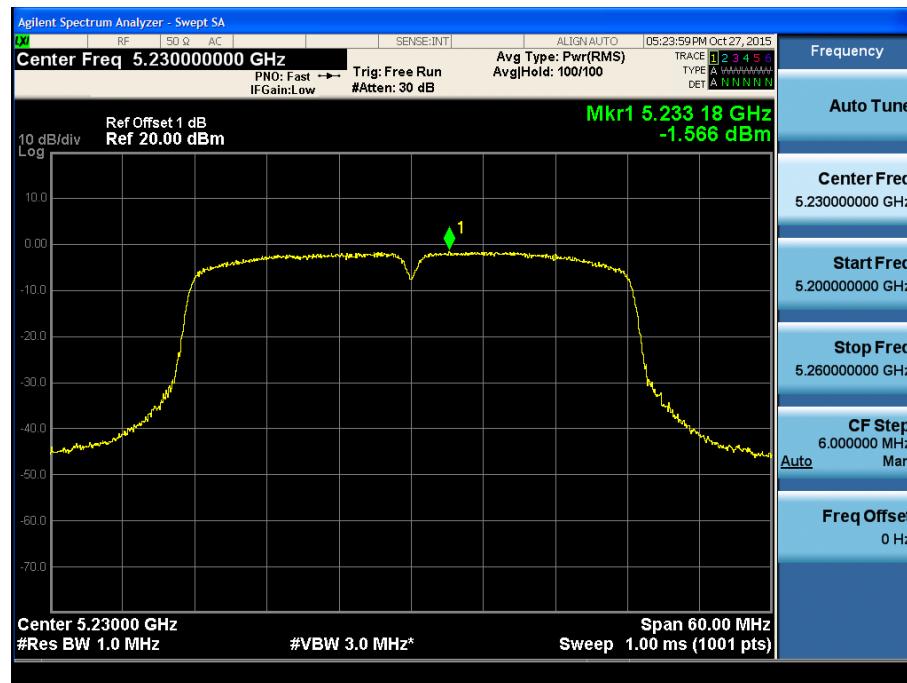


IEEE 802.11n-HT40 modulation Test Result

Duty Cycle CF(dB)	0.42	Included in Calculations of Corr'd Power & PSD
-------------------	------	--

Channel	Frequency (MHz)	Meas PSD (dBm)	Total Corr'd PSD (dBm)	PSD Limit (dBm)
Low	5190	-2.030	-1.610	11.00
High	5230	-1.566	-1.146	11.00





IEEE 802.11ac-VHT80 modulation Test Result

Duty Cycle CF(dB)	0.82	Included in Calculations of Corr'd Power & PSD
-------------------	------	--

Channel	Frequency (MHz)	Meas PSD (dBm)	Total Corr'd PSD (dBm)	PSD Limit (dBm)
Mid	5210	-5.104	-4.284	11.00



Report Number: 68.950.15.289.01

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Fax: +86 755 8828 5299

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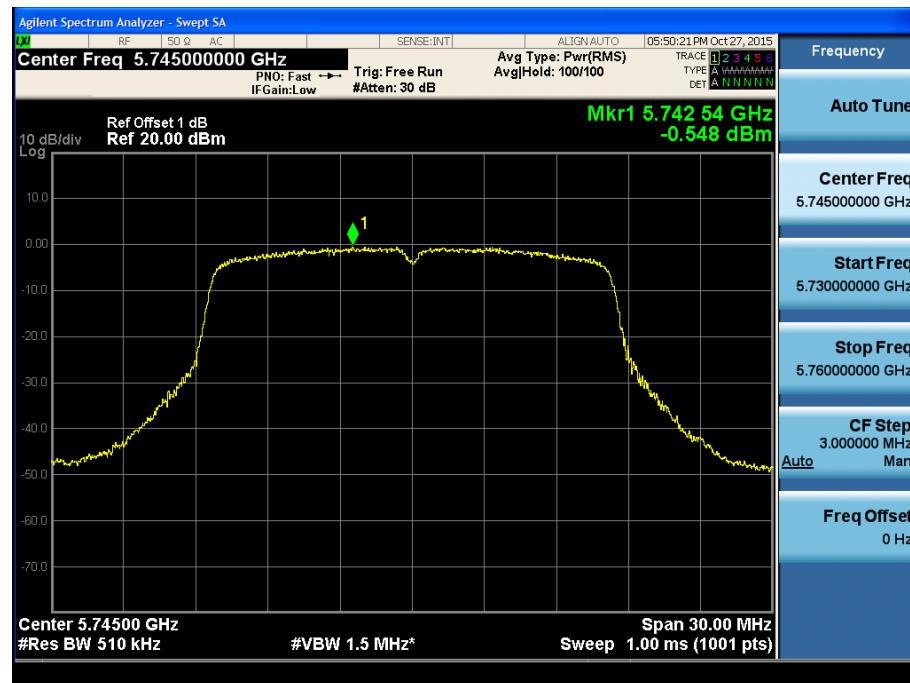


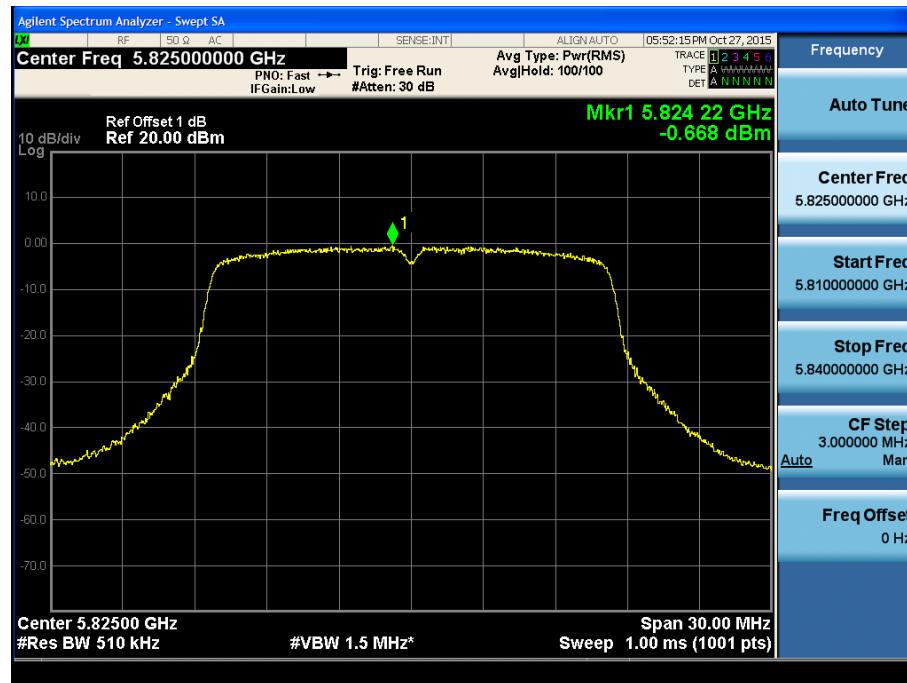
For the 5.8GHz Band

IEEE 802.11a modulation Test Result

Duty Cycle CF(dB)	0.24	Included in Calculations of Corr'd Power & PSD
-------------------	------	--

Channel	Frequency (MHz)	Meas PSD (dBm)	Total Corr'd PSD (dBm)	PSD Limit (dBm)
Low	5745	-0.548	-0.308	30.00
Mid	5785	-0.713	-0.473	30.00
High	5825	-0.668	-0.428	30.00



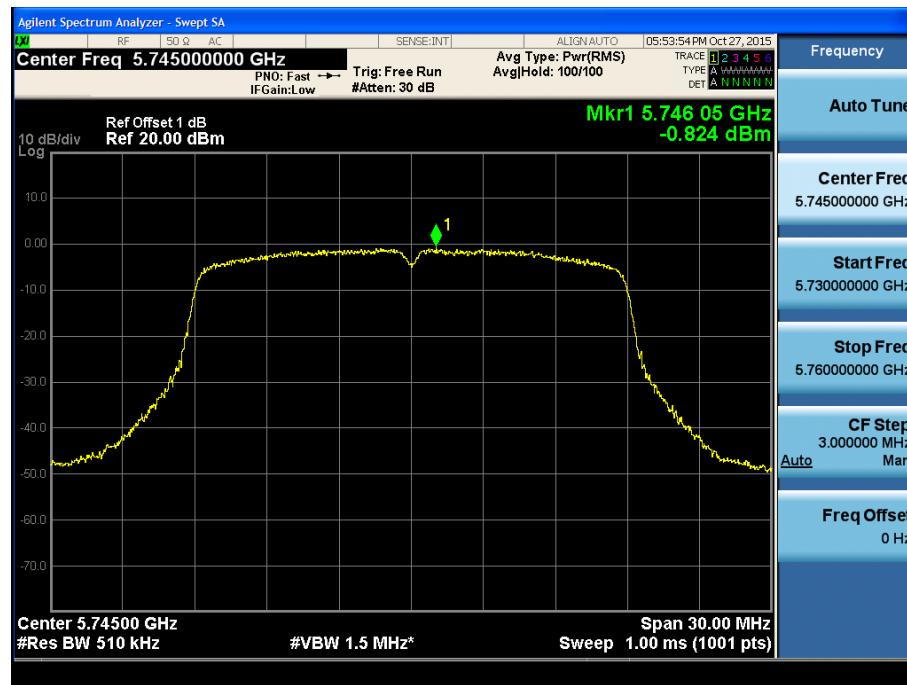


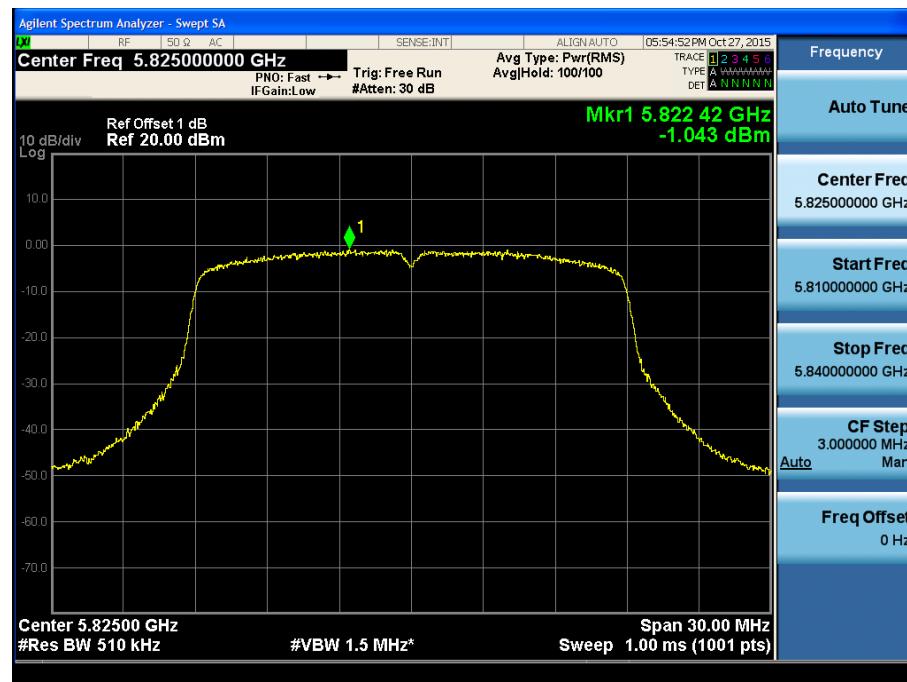
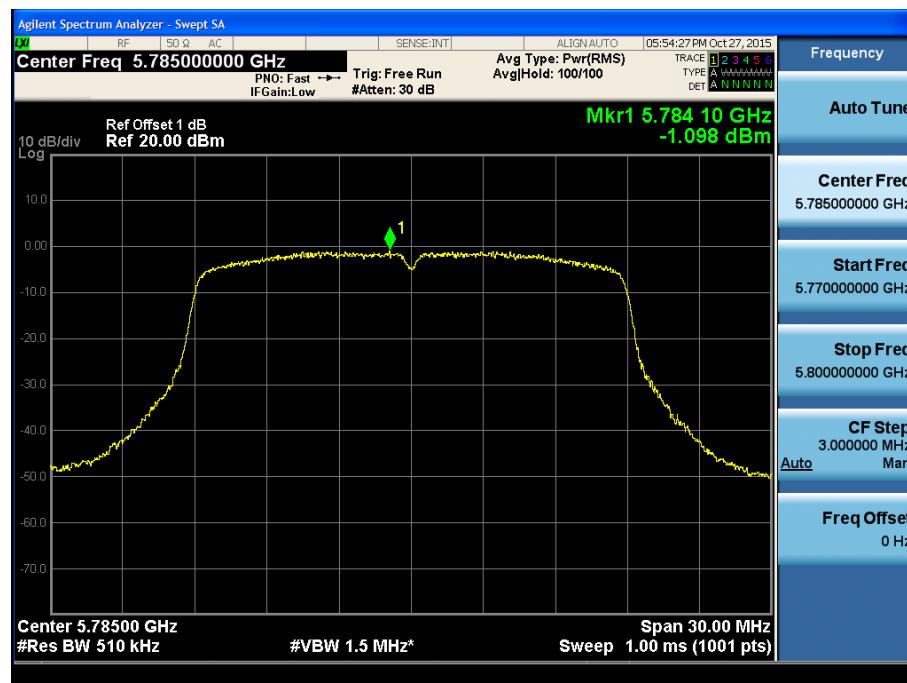


IEEE 802.11n-HT20 modulation Test Result

Duty Cycle CF(dB)	0.21	Included in Calculations of Corr'd Power & PSD
-------------------	------	--

Channel	Frequency (MHz)	Meas PSD (dBm)	Total Corr'd PSD (dBm)	PSD Limit (dBm)
Low	5745	-0.824	-0.614	30.00
Mid	5785	-1.098	-0.888	30.00
High	5825	-1.043	-0.833	30.00



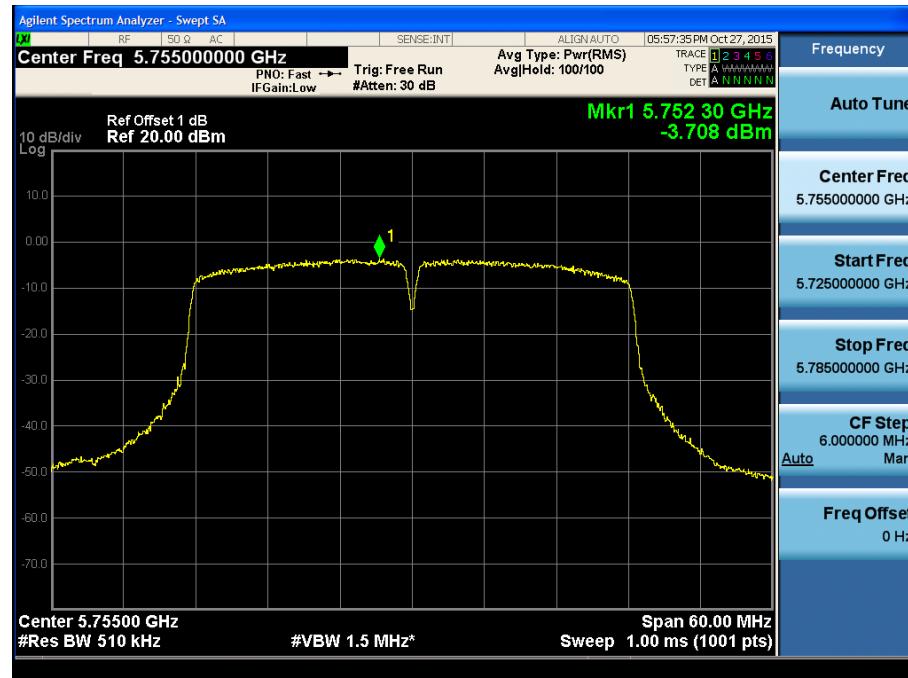




IEEE 802.11n-HT40 modulation Test Result

Duty Cycle CF(dB)	0.42	Included in Calculations of Corr'd Power & PSD
-------------------	------	--

Channel	Frequency (MHz)	Meas PSD (dBm)	Total Corr'd PSD (dBm)	PSD Limit (dBm)
Low	5755	-3.708	-3.288	30.00
High	5795	-3.625	-3.205	30.00

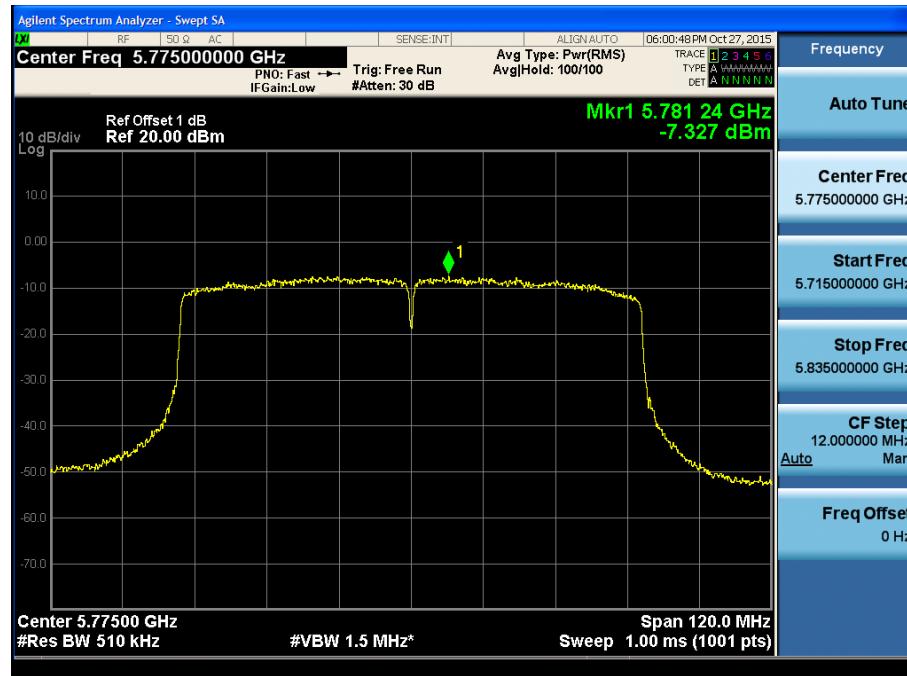




IEEE 802.11ac-VHT80 modulation Test Result

Duty Cycle CF(dB)	0.82	Included in Calculations of Corr'd Power & PSD
-------------------	------	--

Channel	Frequency (MHz)	Meas PSD (dBm)	Total Corr'd PSD (dBm)	PSD Limit (dBm)
Mid	5775	-7.327	-6.507	30.00



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Fax: +86 755 8828 5299



9.5 Unwanted emissions

Test Method

According to KBD789033 D02

Limits:

For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

For transmitters operating in the 5.725-5.85 GHz band: All emissions within the frequency range from the band edge to 10 MHz above or below the band edge shall not exceed an e.i.r.p. of -17 dBm/MHz; for frequencies 10 MHz or greater above or below the band edge, emissions shall not exceed an e.i.r.p. of -27 dBm/MHz.

Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in §15.209. Further, any U-NII devices using an AC power line are required to comply also with the conducted limits set forth in §15.207.

The provisions of §15.205 apply to intentional radiators operating under this section.



Transmitting spurious emission test result as below:

9KHz-30MHz

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line per 15.31(o) was not reported.

Radiated Emission Test Data 9kHz-30MHz

Frequency MHz	Cable Loss(dB)	Antenna Factor(dB)	Readings(d B μ V/m)	Level(dB μ V/m)	Polarity(H/V)	Turntable Angle(deg)	Antenna Height(m)	Limits(dB μ V/m)	Margin(dB)
--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--

30MHz-1GHz

Worst case is shown below for 30MHz-1GHz only.

The emissions don't show in following result tables are more than 20dB below the limits.

Radiated Emission Test Data 30MHz-1GHz

Frequency MHz	Cable Loss(dB)	Antenna Factor(dB)	Readings(d B μ V/m)	Level(dB μ V/m)	Polarity (H/V)	Turntable Angle(deg)	Antenna Height(m)	Limits(dB μ V/m)	Margin(dB)
74.709	1.0	8.7	12.4	22.1	V	17	2.0	40.0	17.9
179.679	1.6	9.0	13.0	23.6	V	351	2.0	43.5	19.9
187.454	1.5	9.7	13.6	24.8	V	23	2.0	43.5	18.7
201.062	1.6	10.6	11.7	23.9	V	345	2.0	43.5	19.6
251.603	1.9	12.1	10.5	24.5	V	50	2.0	46.0	21.5
290.48	2.0	12.7	10.7	25.4	V	294	2.0	46.0	20.6
31.943	0.6	12.3	16.9	29.8	H	45	3.0	40.0	10.2
37.775	0.7	12.3	18.1	31.1	H	336	2.0	40.0	8.9
72.765	1.0	8.7	13.9	23.6	H	16	2.0	40.0	16.4
78.597	1.0	7.8	15.6	24.4	H	249	2.0	40.0	15.6
154.408	1.4	8.3	20.4	30.1	H	71	1.0	43.5	13.4
171.903	1.5	9.0	17.2	27.7	H	341	1.0	43.5	15.8



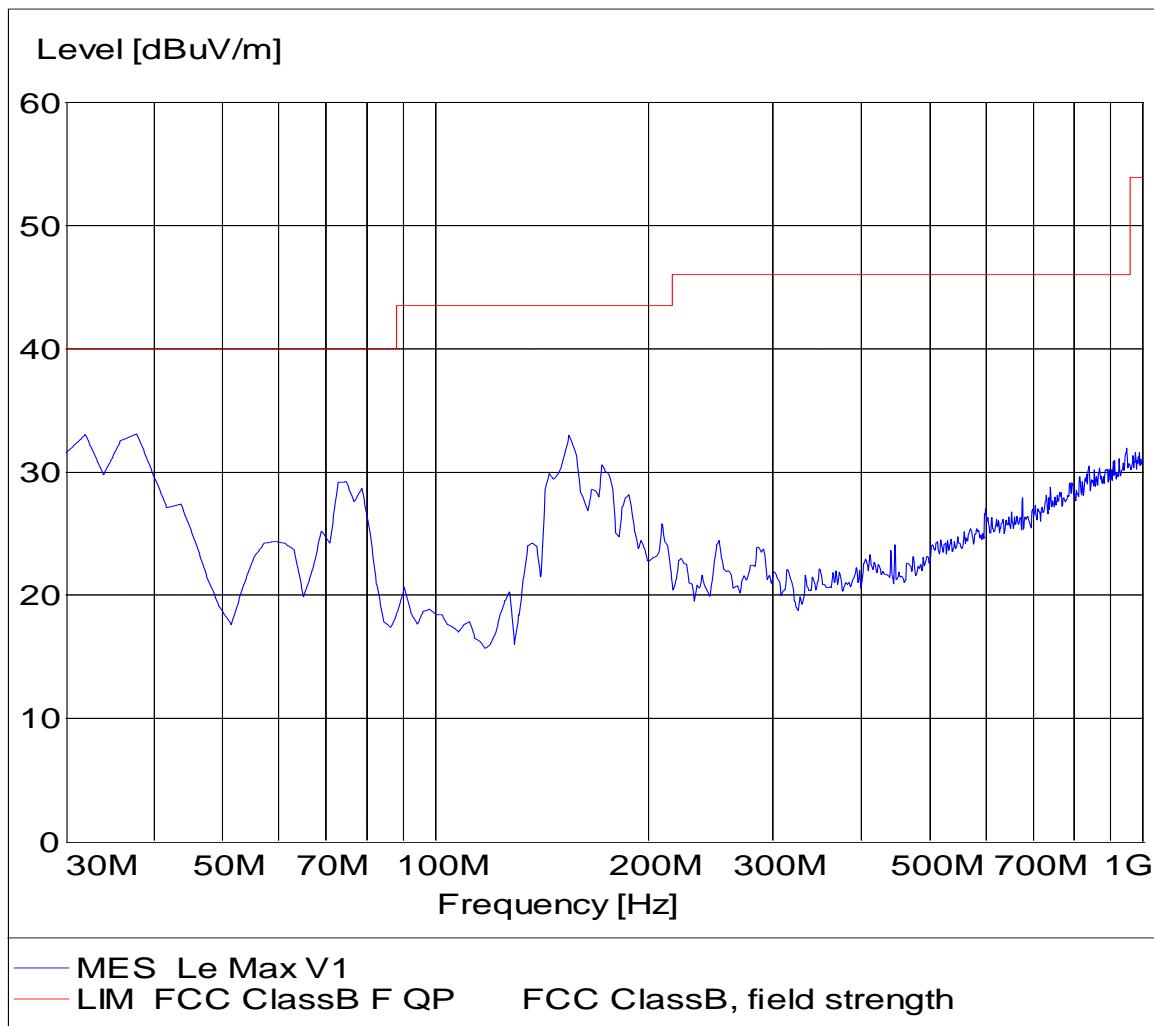
Radiated Emission

EUT Information

EUT Model Name: Le Max
Operation mode: Charging and transmitter
Test Voltage:
Comment:

Common Information

Test Site: SMQ EMC Lab.
Environment Conditions:
Antenna Polarization: Vertical
Operator Name:
Comment:



Radiated Emission

Report Number: 68.950.15.289.01

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Fax: +86 755 8828 5299

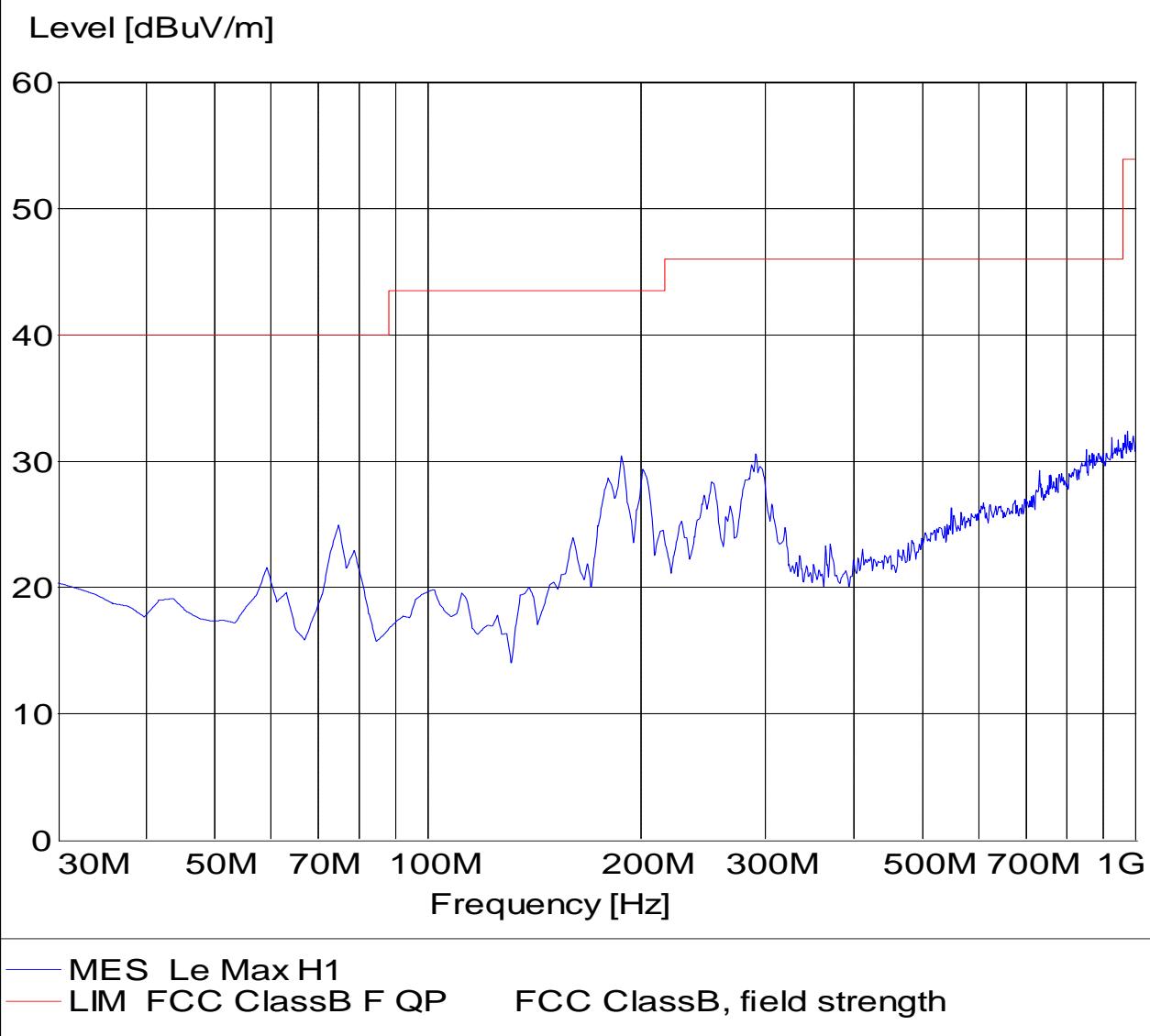


EUT Information

EUT Model Name: Le Max
Operation mode: Charging and transmitter
Test Voltage:
Comment:

Common Information

Test Site: SMQ EMC Lab.
Environment Conditions:
Antenna Polarization: Horizontal
Operator Name:
Comment:



For 5.2G Band



1-18G

802.11a

CH36

Radiated Emission

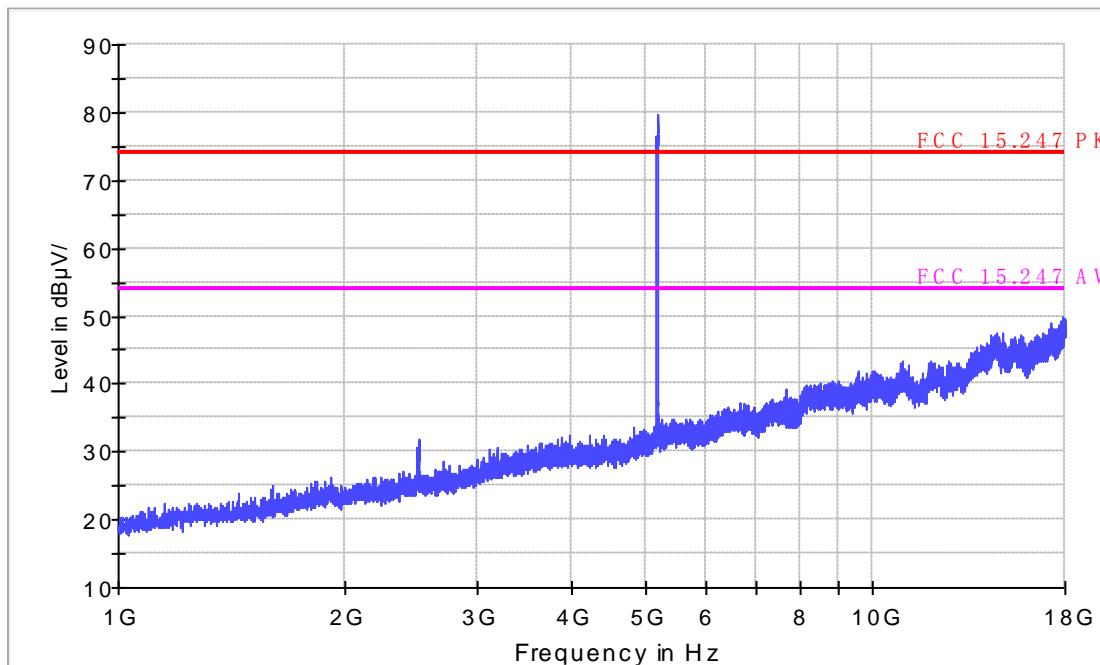
EUT Information

EUT Model Name: Le Max
Operation mode: Wifi 11a CH36
Test Voltage:
Comment:

Common Information

Test Site: SMQ EMC Lab.
Environment Conditions:
Antenna Polarization: Horizontal
Operator Name:
Comment:

FCC Electric Field Strength 1-18GHz operate on 5GHz





Radiated Emission

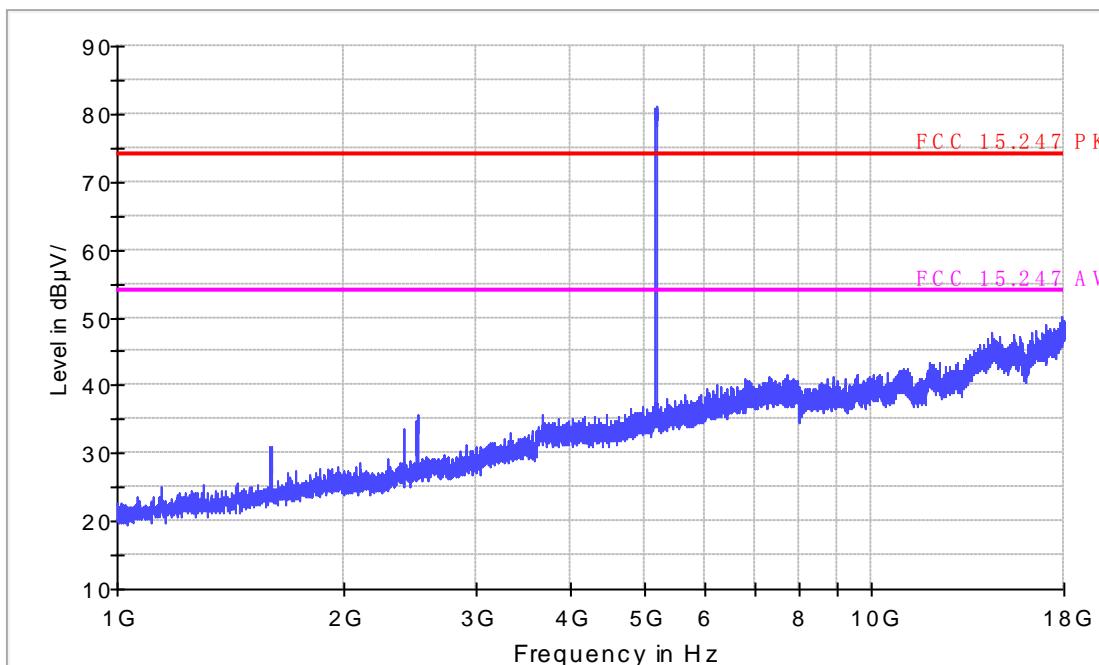
EUT Information

EUT Model Name: Le Max
Operation mode: Wifi 11a CH36
Test Voltage:
Comment:

Common Information

Test Site: SMQ EMC Lab.
Environment Conditions:
Antenna Polarization: Vertical
Operator Name:
Comment:

FCC Electric Field Strength 1-18GHz operate on 5GHz





1-18G

802.11a

CH40

Radiated Emission

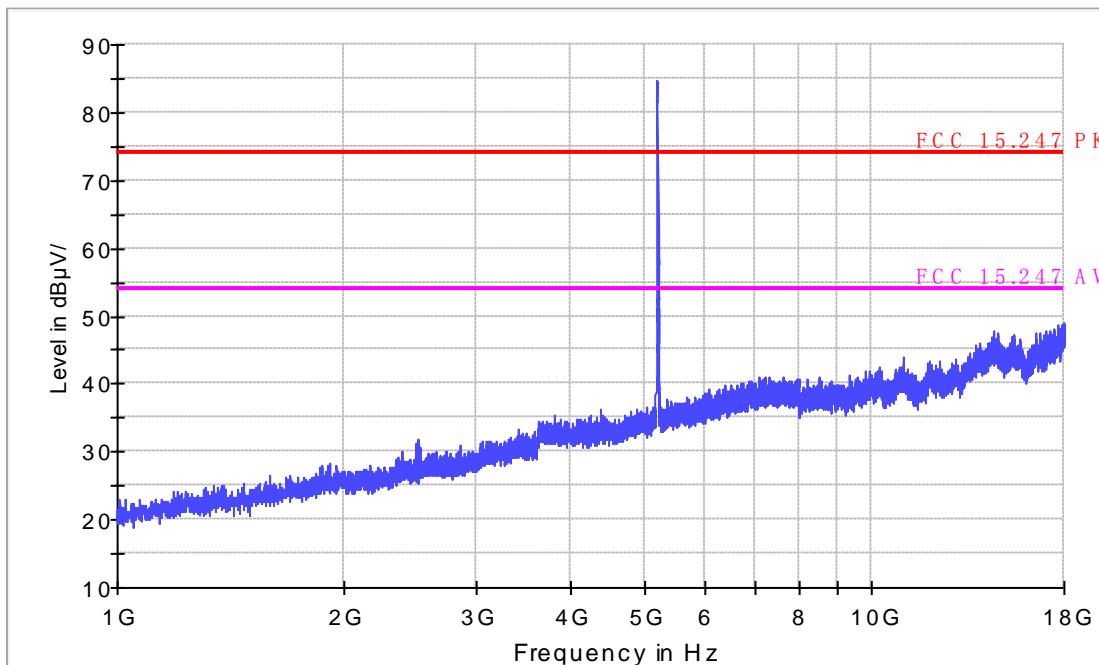
EUT Information

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Operation mode: Wifi 11a CH40
Test Voltage:
Comment:

Common Information

Test Site: SMQ EMC Lab.
Environment Conditions:
Antenna Polarization: Horizontal
Operator Name:
Comment:

FCC Electric Field Strength 1-18GHz operate on 5GHz





Radiated Emission

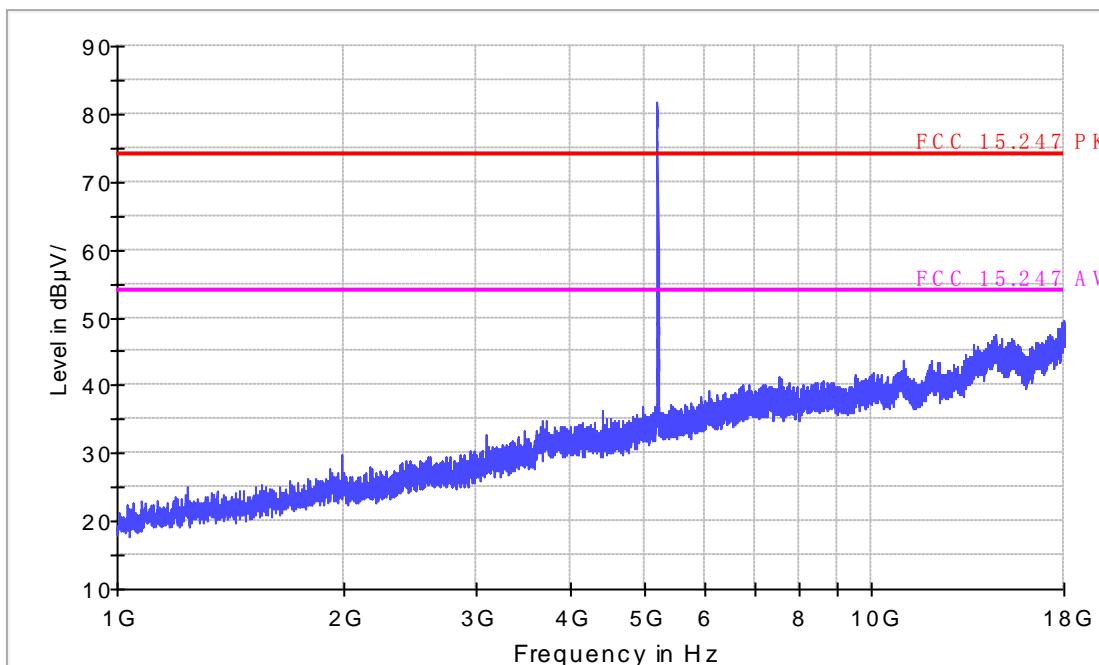
EUT Information

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Operation mode: Wifi 11a CH40
Test Voltage:
Comment:

Common Information

Test Site: SMQ EMC Lab.
Environment Conditions:
Antenna Polarization: Vertical
Operator Name:
Comment:

FCC Electric Field Strength 1-18GHz operate on 5GHz





1-18G

802.11a

CH48

Radiated Emission

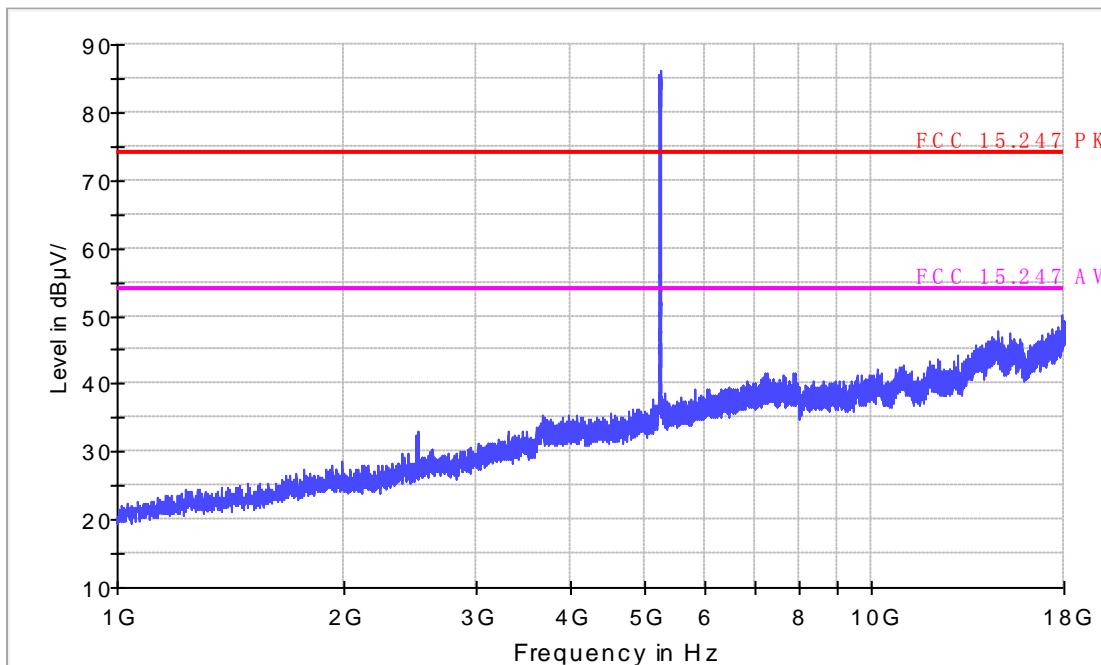
EUT Information

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Operation mode: Wifi 11a CH48
Test Voltage:
Comment:

Common Information

Test Site: SMQ EMC Lab.
Environment Conditions:
Antenna Polarization: Horizontal
Operator Name:
Comment:

FCC Electric Field Strength 1-18GHz operate on 5GHz





Radiated Emission

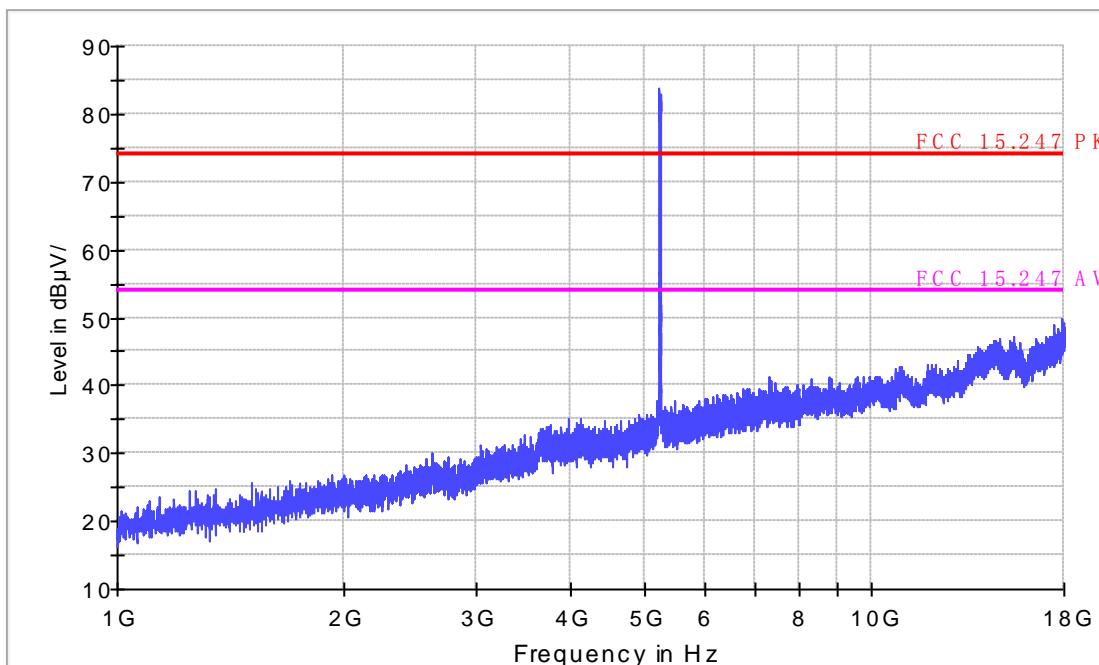
EUT Information

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Operation mode: Wifi 11a CH48
Test Voltage:
Comment:

Common Information

Test Site: SMQ EMC Lab.
Environment Conditions:
Antenna Polarization: Vertical
Operator Name:
Comment:

FCC Electric Field Strength 1-18GHz operate on 5GHz





1-18G

802.11n HT20

CH36

Radiated Emission

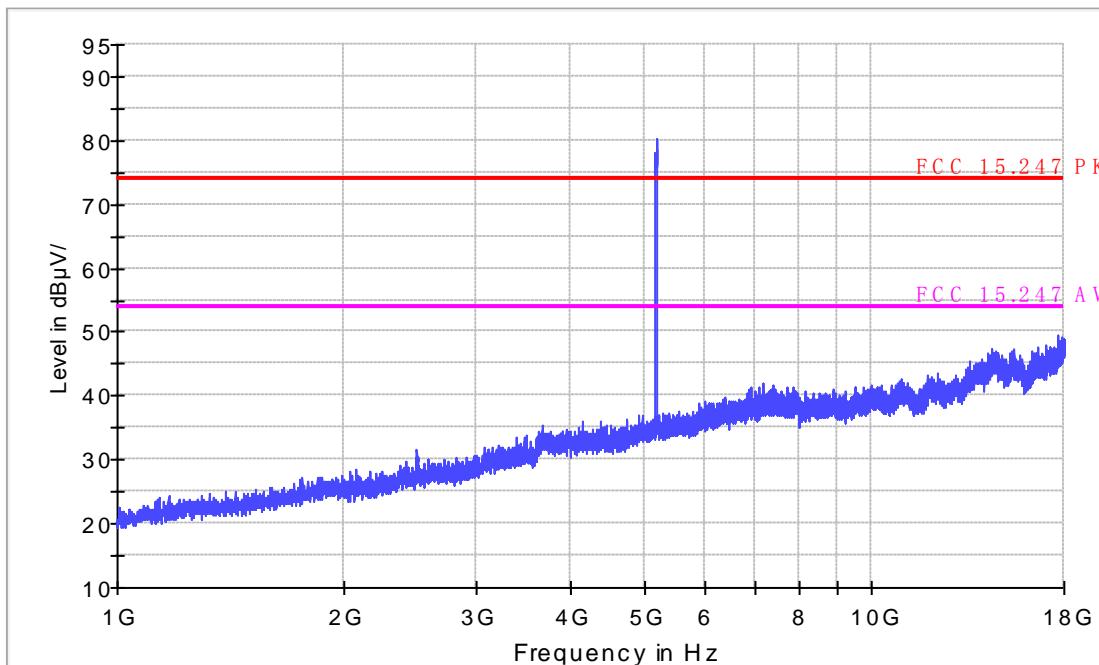
EUT Information

EUT Model Name: Le Max
Operation mode: Wifi 11n HT20 CH36
Test Voltage:
Comment:

Common Information

Test Site: SMQ EMC Lab.
Environment Conditions:
Antenna Polarization: Horizontal
Operator Name:
Comment:

FCC Electric Field Strength 1-18 GHz operate on 5 GHz





Radiated Emission

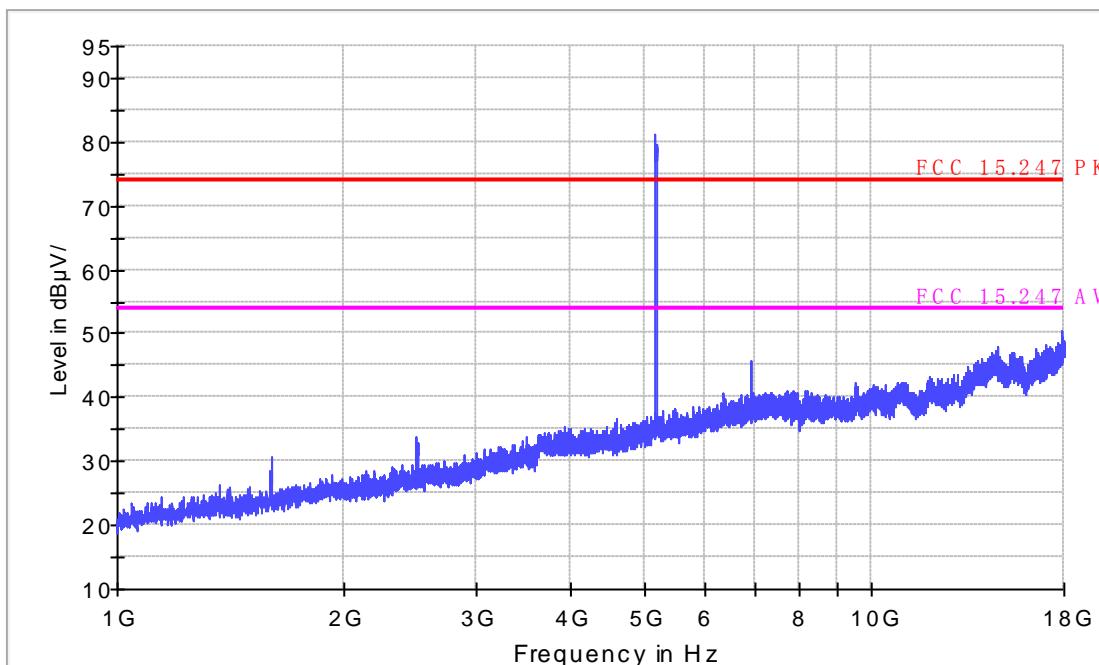
EUT Information

EUT Model Name: Le Max
Operation mode: Wifi 11n HT20 CH36
Test Voltage:
Comment:

Common Information

Test Site: SMQ EMC Lab.
Environment Conditions:
Antenna Polarization: Vertical
Operator Name:
Comment:

FCC Electric Field Strength 1-18GHz operate on 5GHz





1-18G

802.11n HT20

CH40

Radiated Emission

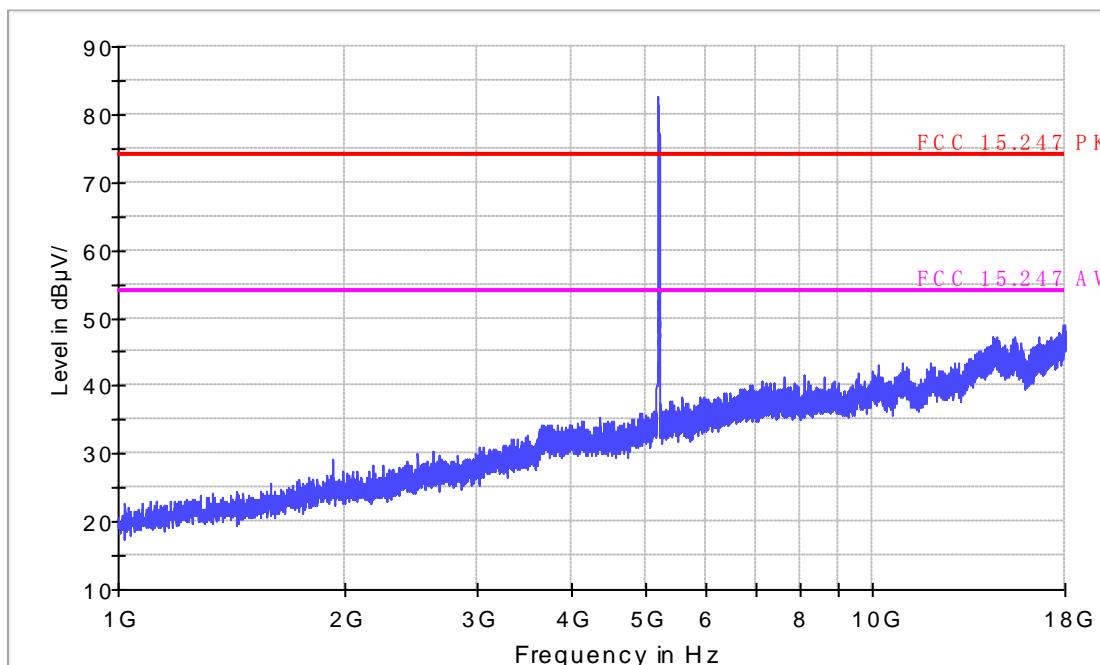
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Operation mode: Wifi 11n HT20 CH40
Test Voltage:
Comment:

Common Information

Test Site: SMQ EMC Lab.
Environment Conditions:
Antenna Polarization: Horizontal
Operator Name:
Comment:

FCC Electric Field Strength 1-18GHz operate on 5GHz





Radiated Emission

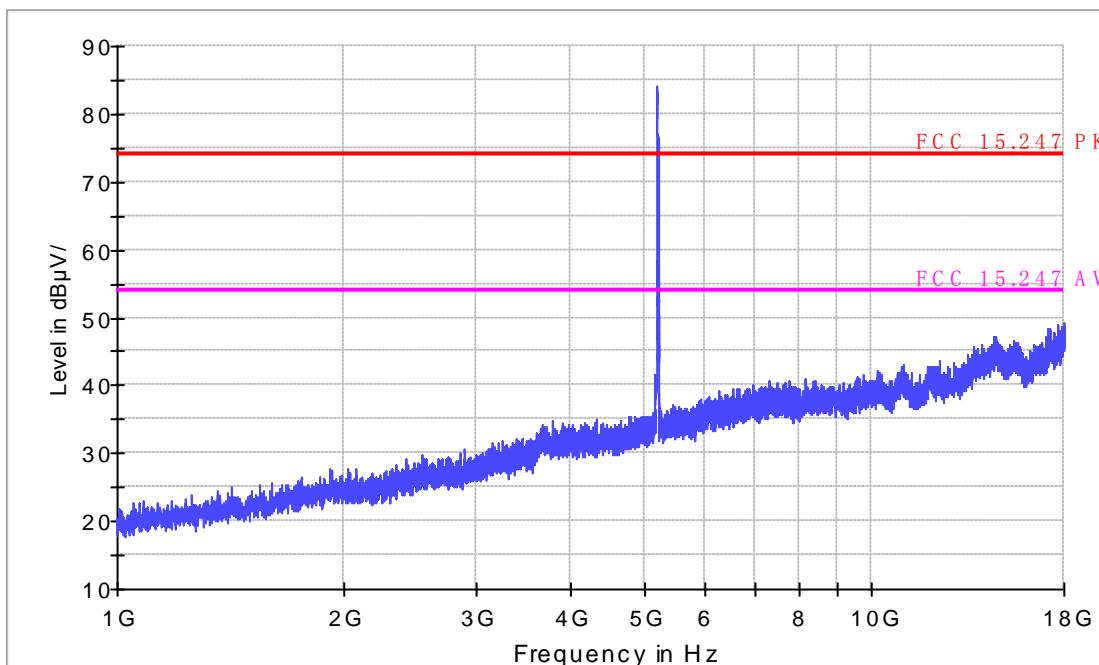
EUT Information

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Operation mode: Wifi 11n HT20 CH40
Test Voltage:
Comment:

Common Information

Test Site: SMQ EMC Lab.
Environment Conditions:
Antenna Polarization: Vertical
Operator Name:
Comment:

FCC Electric Field Strength 1-18GHz operate on 5GHz





1-18G

802.11n HT20

CH48

Radiated Emission

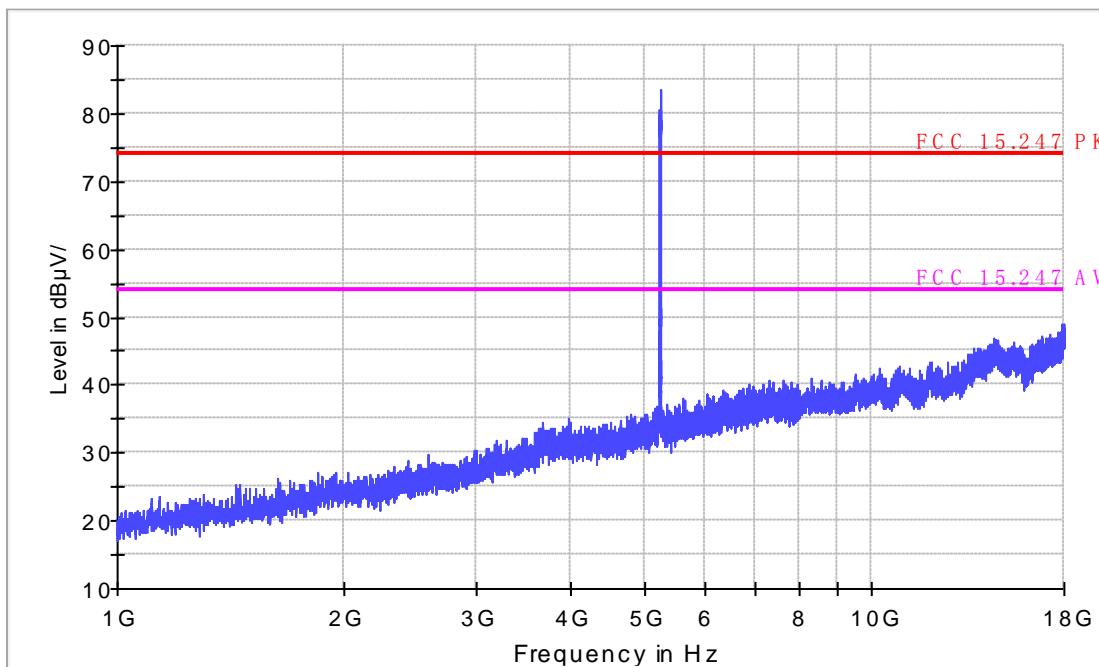
EUT Information

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Operation mode: Wifi 11n HT20 CH48
Test Voltage:
Comment:

Common Information

Test Site: SMQ EMC Lab.
Environment Conditions:
Antenna Polarization: Horizontal
Operator Name:
Comment:

FCC Electric Field Strength 1-18GHz operate on 5GHz





Radiated Emission

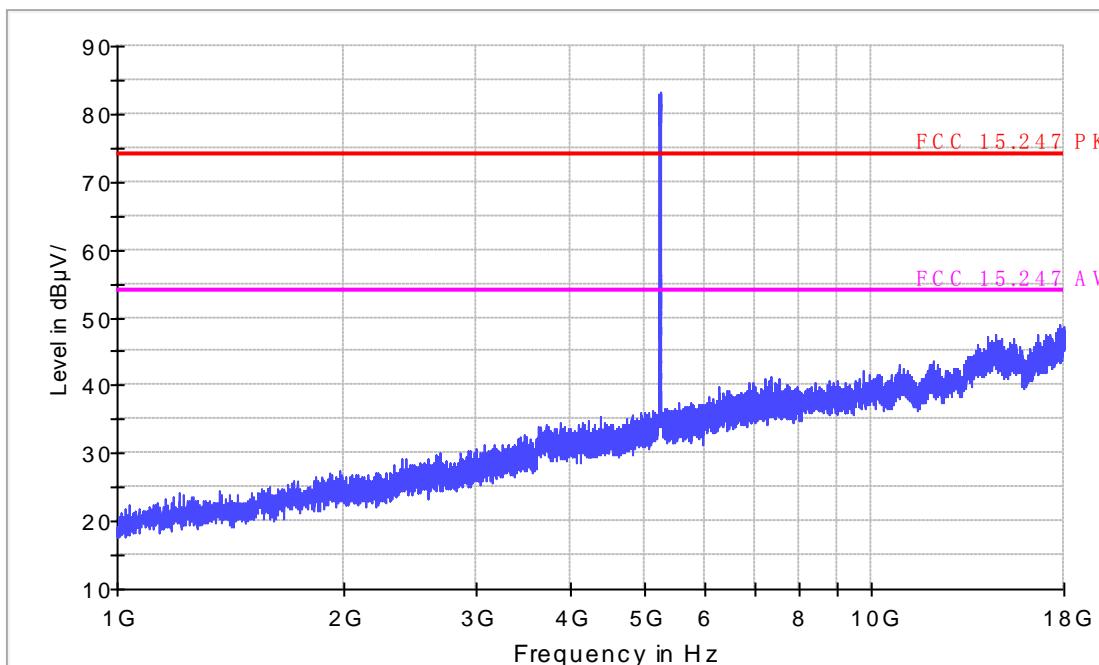
EUT Information

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Operation mode: Wifi 11n HT20 CH48
Test Voltage:
Comment:

Common Information

Test Site: SMQ EMC Lab.
Environment Conditions:
Antenna Polarization: Vertical
Operator Name:
Comment:

FCC Electric Field Strength 1-18GHz operate on 5GHz





1-18G

802.11n-HT40

CH38

Radiated Emission

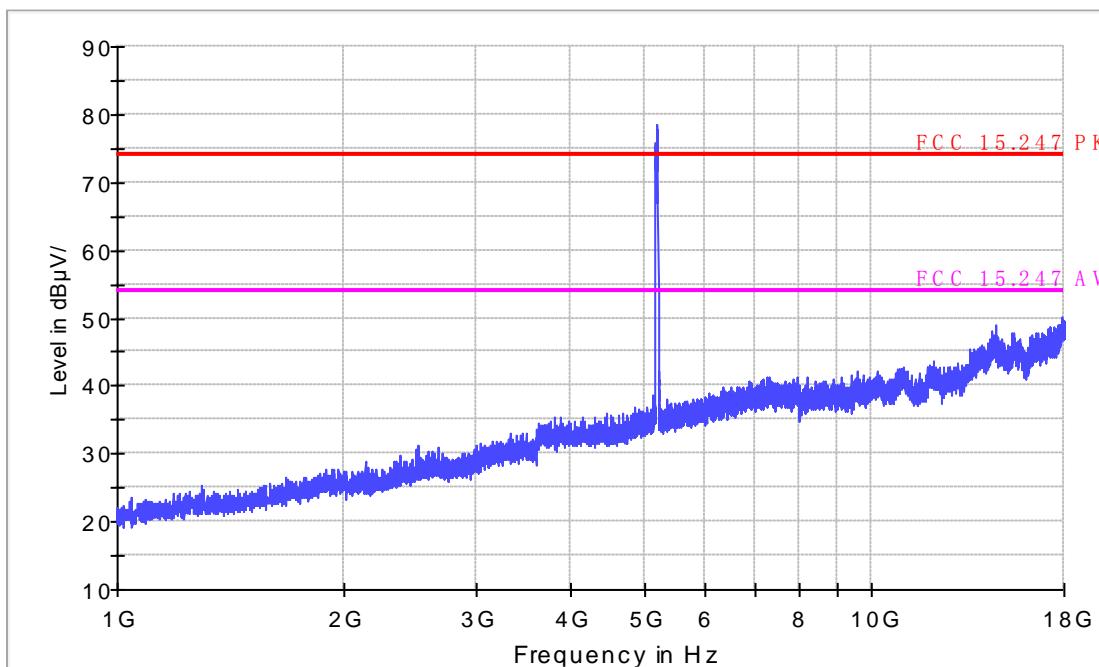
EUT Information

EUT Model Name: Le Max
Operation mode: Wifi 11n HT40 CH38
Test Voltage:
Comment:

Common Information

Test Site: SMQ EMC Lab.
Environment Conditions:
Antenna Polarization: Horizontal
Operator Name:
Comment:

FCC Electric Field Strength 1-18GHz operate on 5GHz





Radiated Emission

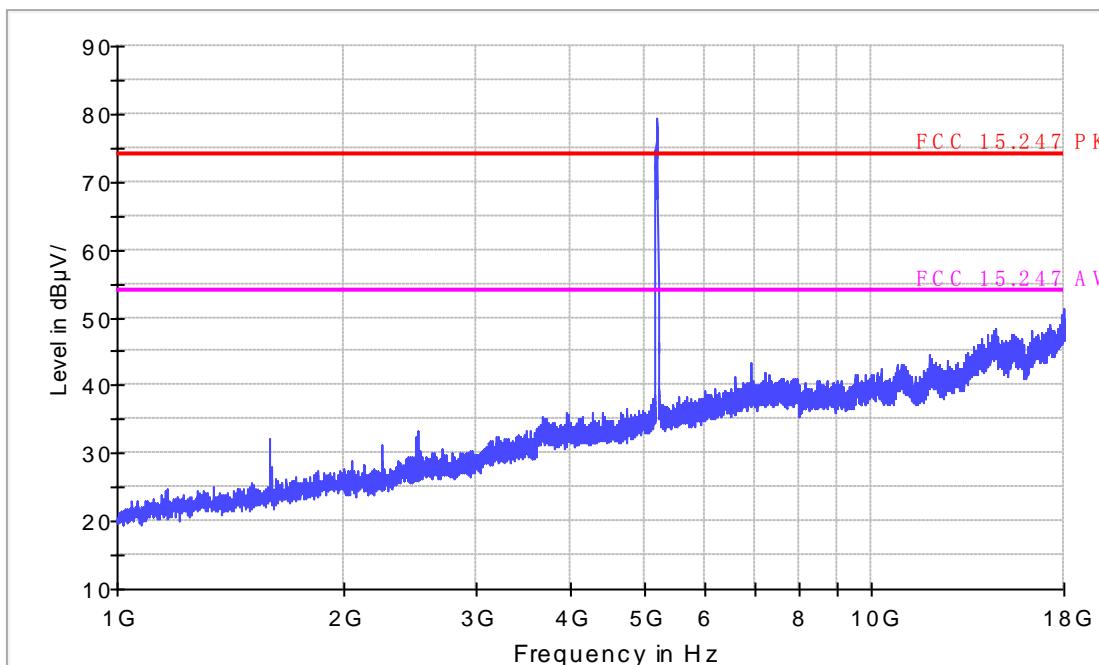
EUT Information

EUT Model Name: Le Max
Operation mode: Wifi 11n HT40 CH38
Test Voltage:
Comment:

Common Information

Test Site: SMQ EMC Lab.
Environment Conditions:
Antenna Polarization: Vertical
Operator Name:
Comment:

FCC Electric Field Strength 1-18GHz operate on 5GHz





1-18G

802.11n-HT40

CH46

Radiated Emission

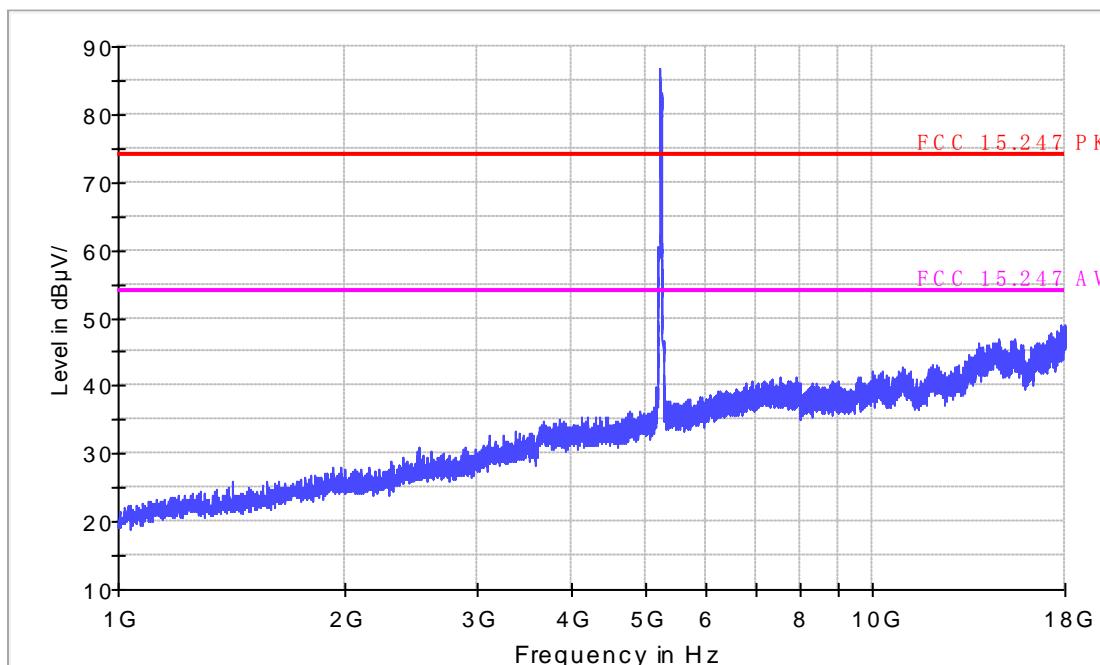
EUT Information

EUT Model Name: Le Max
Operation mode: Wifi 11n HT40 CH46
Test Voltage:
Comment:

Common Information

Test Site: SMQ EMC Lab.
Environment Conditions:
Antenna Polarization: Horizontal
Operator Name:
Comment:

FCC Electric Field Strength 1-18GHz operate on 5GHz





Radiated Emission

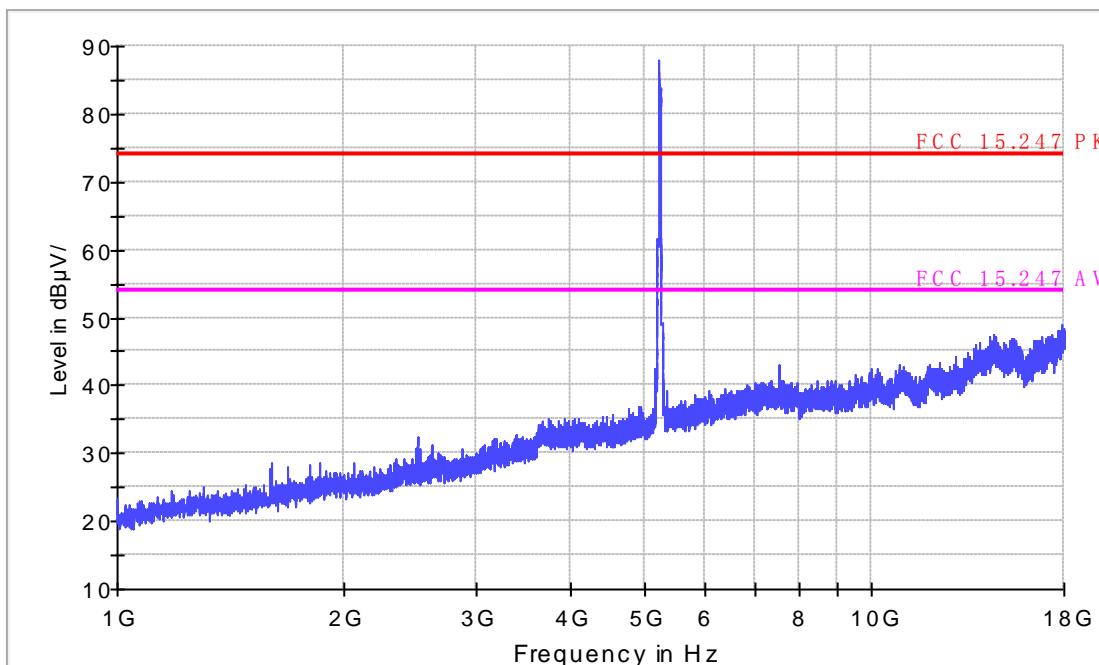
EUT Information

EUT Model Name: Le Max
Operation mode: Wifi 11n HT40 CH46
Test Voltage:
Comment:

Common Information

Test Site: SMQ EMC Lab.
Environment Conditions:
Antenna Polarization: Vertical
Operator Name:
Comment:

FCC Electric Field Strength 1-18GHz operate on 5GHz





1-18G
802.11ac VTH80
CH42

Radiated Emission

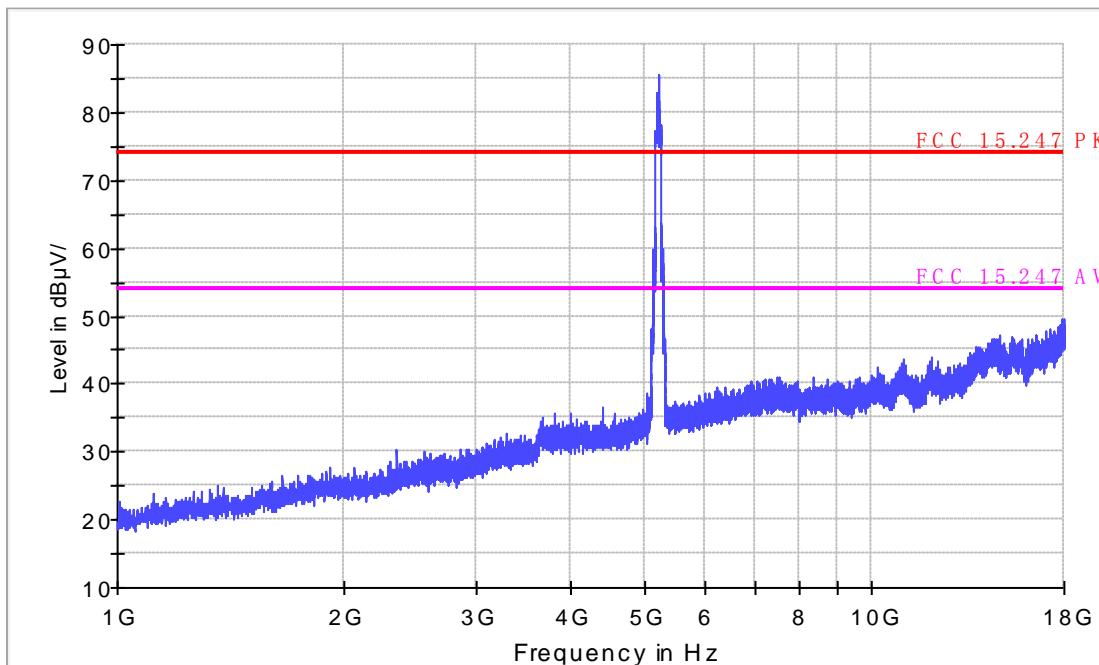
EUT Information

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Operation mode: Wifi 11ac VTH80 CH42
Test Voltage:
Comment:

Common Information

Test Site: SMQ EMC Lab.
Environment Conditions:
Antenna Polarization: Horizontal
Operator Name:
Comment:

FCC Electric Field Strength 1-18GHz operate on 5GHz





Radiated Emission

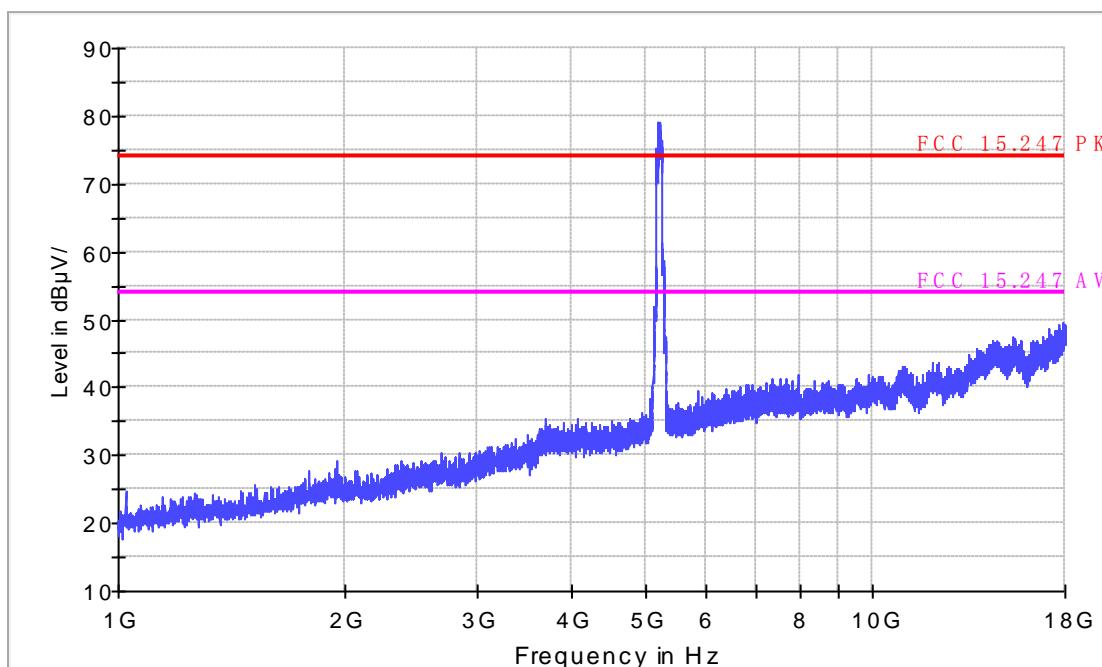
EUT Information

EUT Model Name: Le Max
Operation mode: Wifi 11ac VTH80 CH42
Test Voltage:
Comment:

Common Information

Test Site: SMQ EMC Lab.
Environment Conditions:
Antenna Polarization: Vertical
Operator Name:
Comment:

FCC Electric Field Strength 1-18GHz operate on 5GHz





For 5.8G Band

1-18G

802.11a

CH149

Radiated Emission

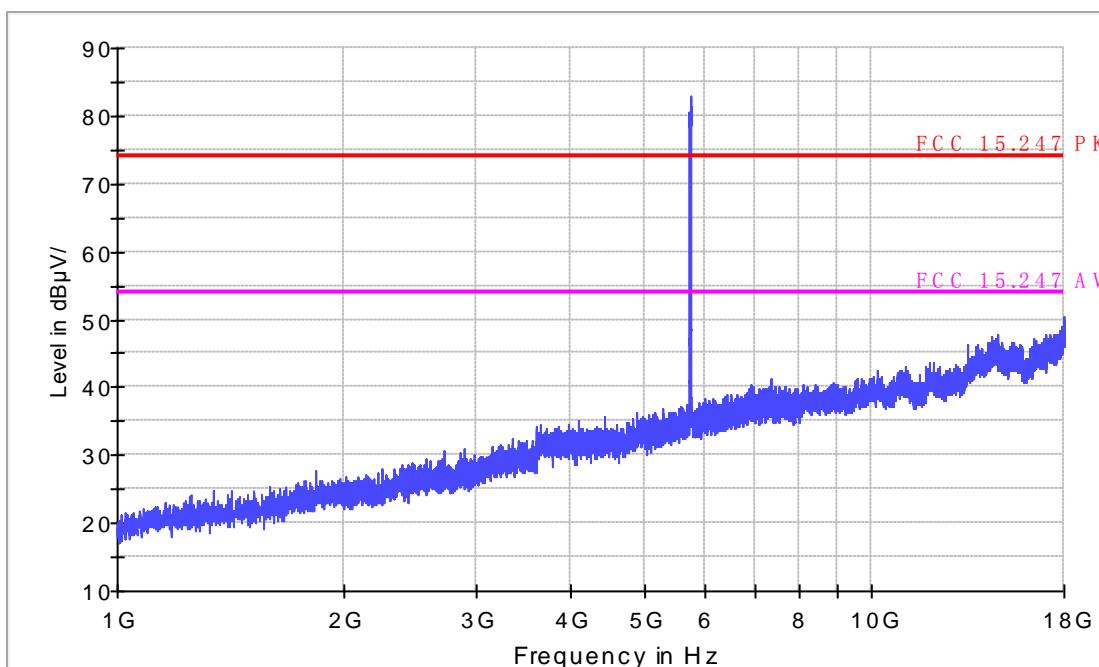
EUT Information

EUT Model Name: Le Max
Operation mode: Wifi 11a CH149
Test Voltage:
Comment:

Common Information

Test Site: SMQ EMC Lab.
Environment Conditions:
Antenna Polarization: Horizontal
Operator Name:
Comment:

FCC Electric Field Strength 1-18GHz operate on 5GHz





Radiated Emission

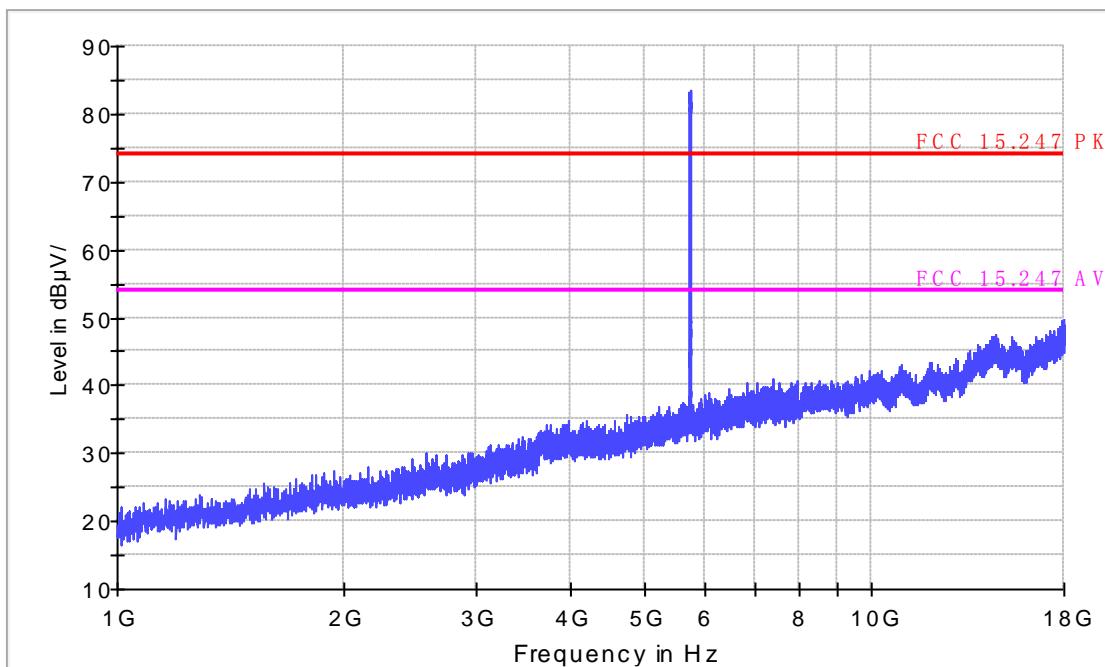
EUT Information

EUT Model Name: Le Max
Operation mode: Wifi 11a CH149
Test Voltage:
Comment:

Common Information

Test Site: SMQ EMC Lab.
Environment Conditions:
Antenna Polarization: Vertical
Operator Name:
Comment:

FCC Electric Field Strength 1-18GHz operate on 5GHz





1-18G

802.11a

CH157

Radiated Emission

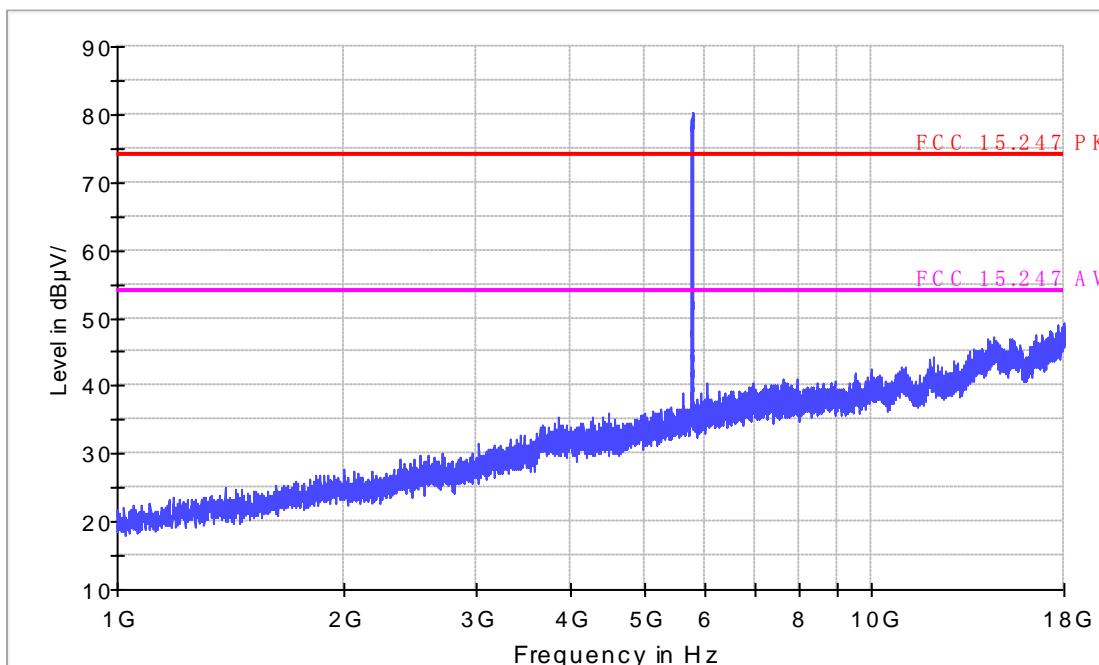
EUT Information

EUT Model Name: Le Max
Operation mode: Wifi 11a CH157
Test Voltage:
Comment:

Common Information

Test Site: SMQ EMC Lab.
Environment Conditions:
Antenna Polarization: Horizontal
Operator Name:
Comment:

FCC Electric Field Strength 1-18GHz operate on 5GHz





Radiated Emission

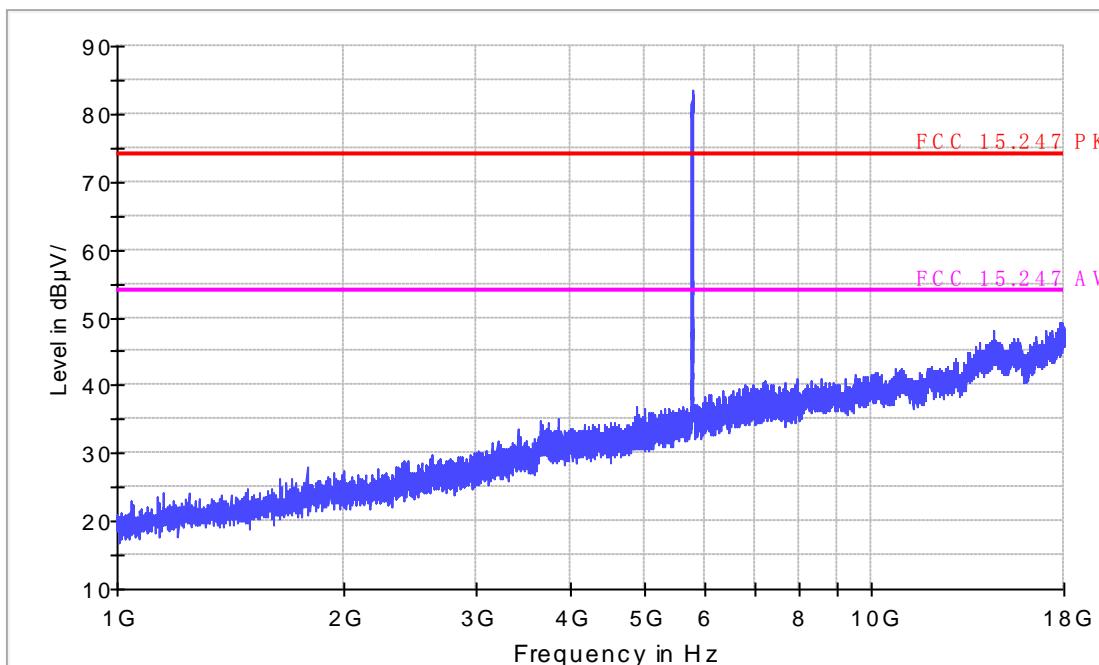
EUT Information

EUT Model Name: Le Max
Operation mode: Wifi 11a CH157
Test Voltage:
Comment:

Common Information

Test Site: SMQ EMC Lab.
Environment Conditions:
Antenna Polarization: Vertical
Operator Name:
Comment:

FCC Electric Field Strength 1-18GHz operate on 5GHz





1-18G

802.11a

CH165

Radiated Emission

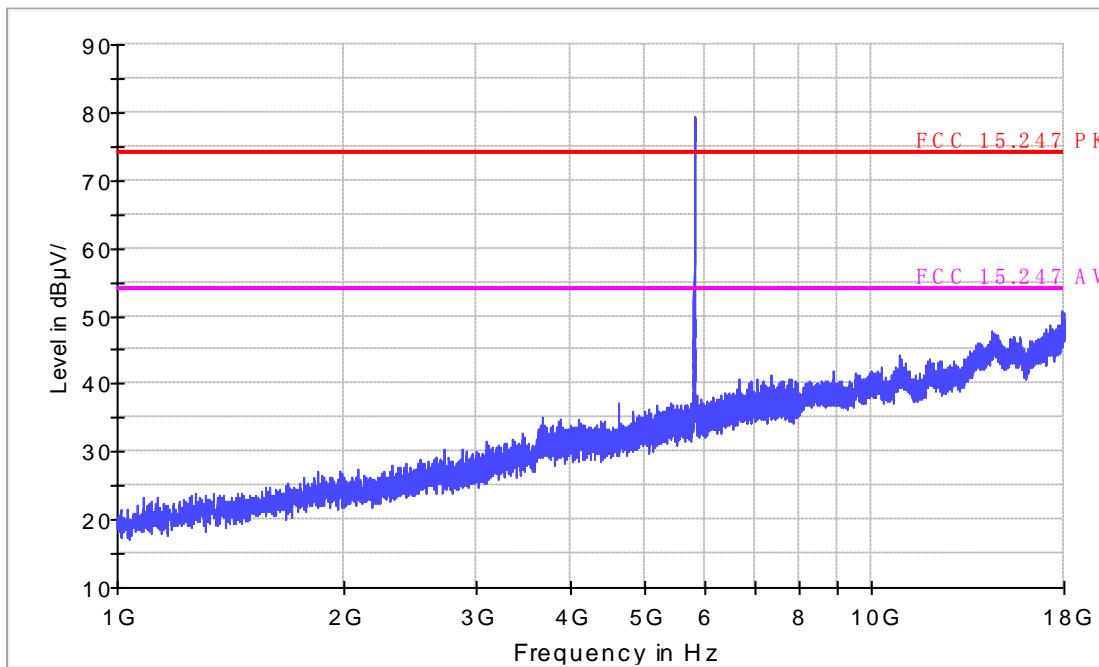
EUT Information

EUT Model Name: Le Max
Operation mode: Wifi 11a CH165
Test Voltage:
Comment:

Common Information

Test Site: SMQ EMC Lab.
Environment Conditions:
Antenna Polarization: Horizontal
Operator Name:
Comment:

FCC Electric Field Strength 1-18GHz operate on 5GHz





Radiated Emission

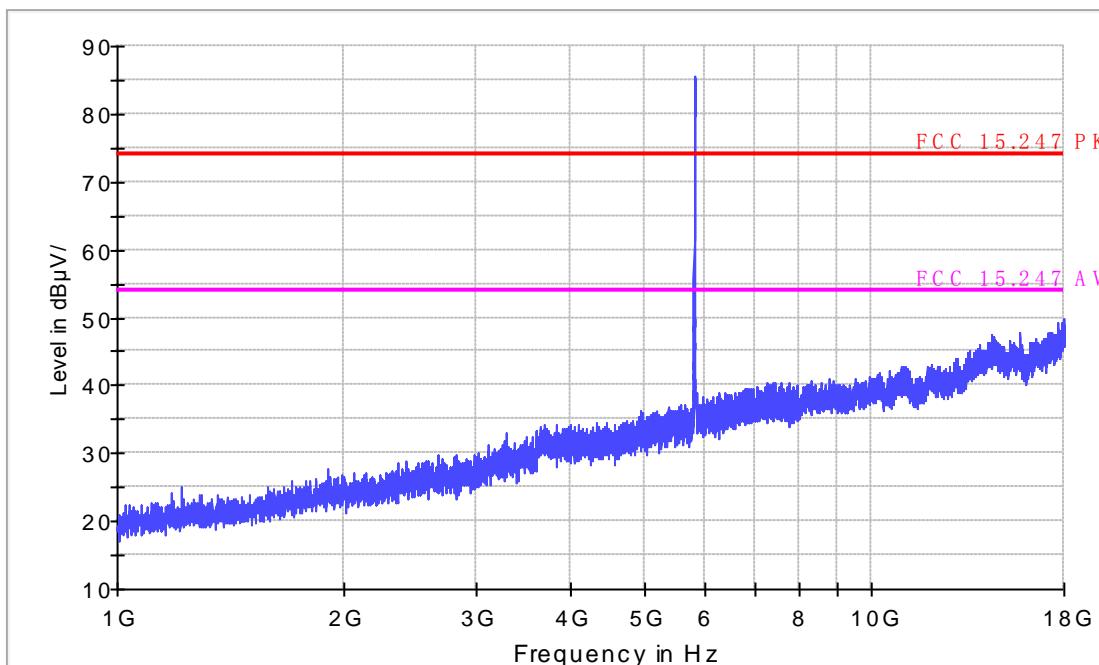
EUT Information

EUT Model Name: Le Max
Operation mode: Wifi 11a CH165
Test Voltage:
Comment:

Common Information

Test Site: SMQ EMC Lab.
Environment Conditions:
Antenna Polarization: Vertical
Operator Name:
Comment:

FCC Electric Field Strength 1-18GHz operate on 5GHz





1-18G

802.11n HT20

CH149

Radiated Emission

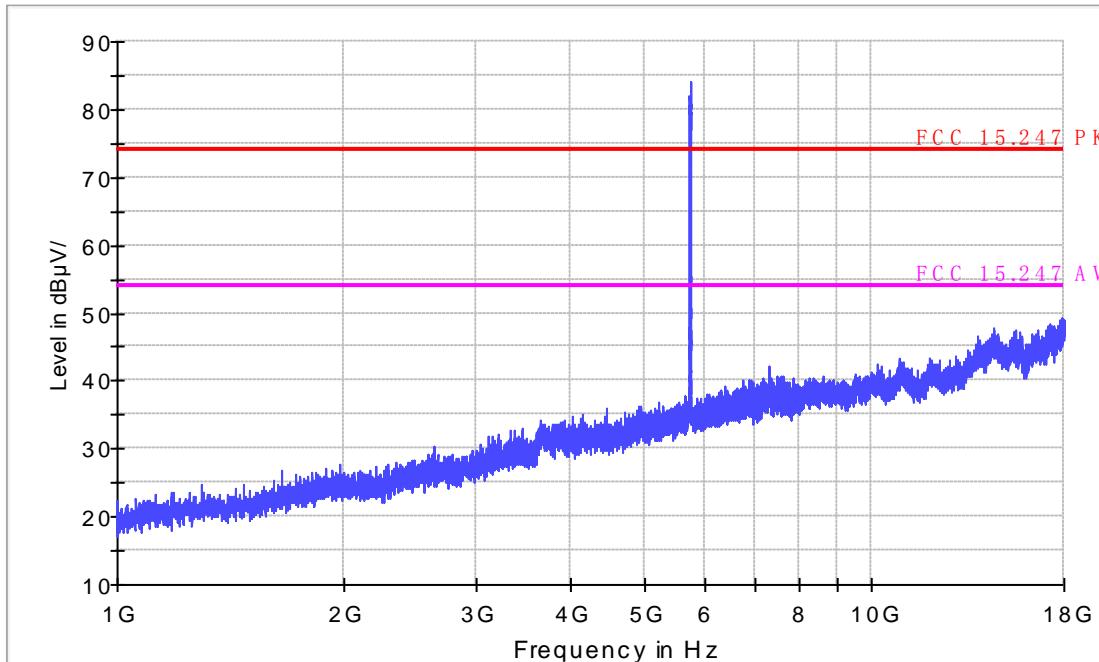
EUT Information

EUT Model Name: Le Max
Operation mode: Wifi 11n HT20 CH149
Test Voltage:
Comment:

Common Information

Test Site: SMQ EMC Lab.
Environment Conditions:
Antenna Polarization: Horizontal
Operator Name:
Comment:

FCC Electric Field Strength 1-18 GHz operate on 5 GHz





Radiated Emission

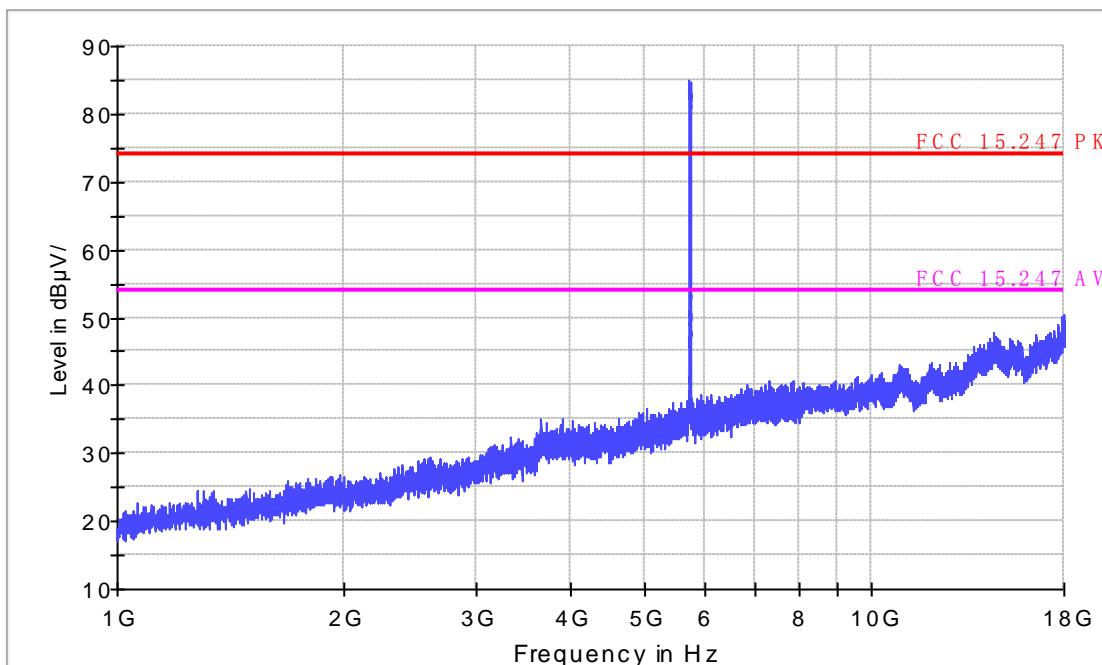
EUT Information

EUT Model Name: Le Max
Operation mode: Wifi 11n HT20 CH149
Test Voltage:
Comment:

Common Information

Test Site: SMQ EMC Lab.
Environment Conditions:
Antenna Polarization: Vertical
Operator Name:
Comment:

FCC Electric Field Strength 1-18GHz operate on 5GHz





1-18G

802.11n HT20

CH157

Radiated Emission

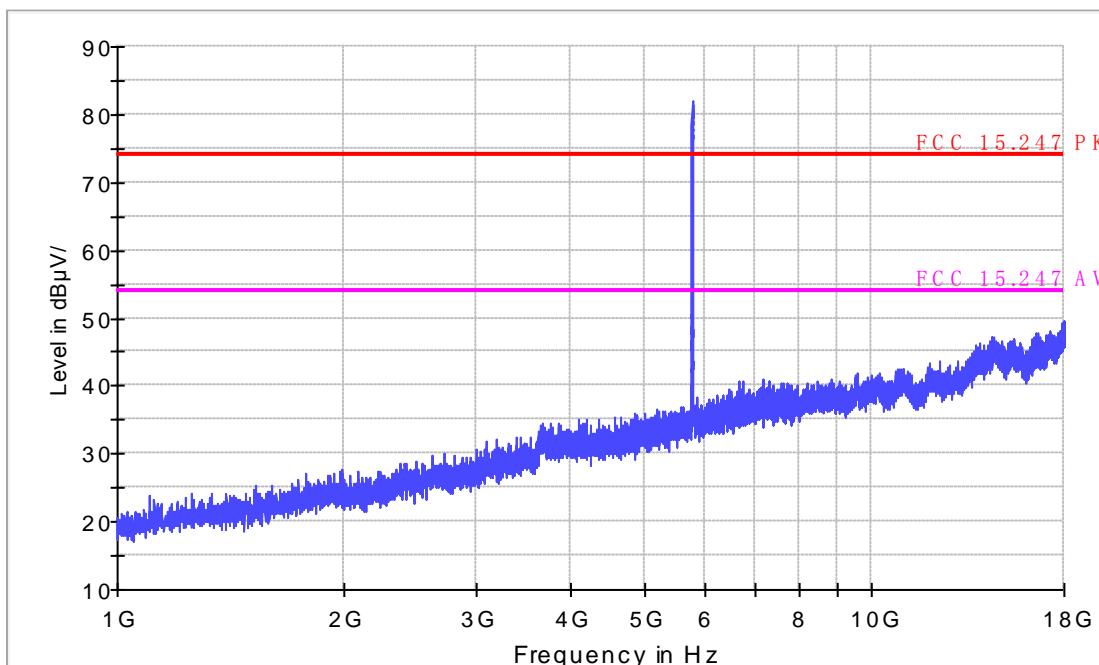
EUT Information

EUT Model Name: Le Max
Operation mode: Wifi 11n HT20 CH157
Test Voltage:
Comment:

Common Information

Test Site: SMQ EMC Lab.
Environment Conditions:
Antenna Polarization: Horizontal
Operator Name:
Comment:

FCC Electric Field Strength 1-18GHz operate on 5GHz





Radiated Emission

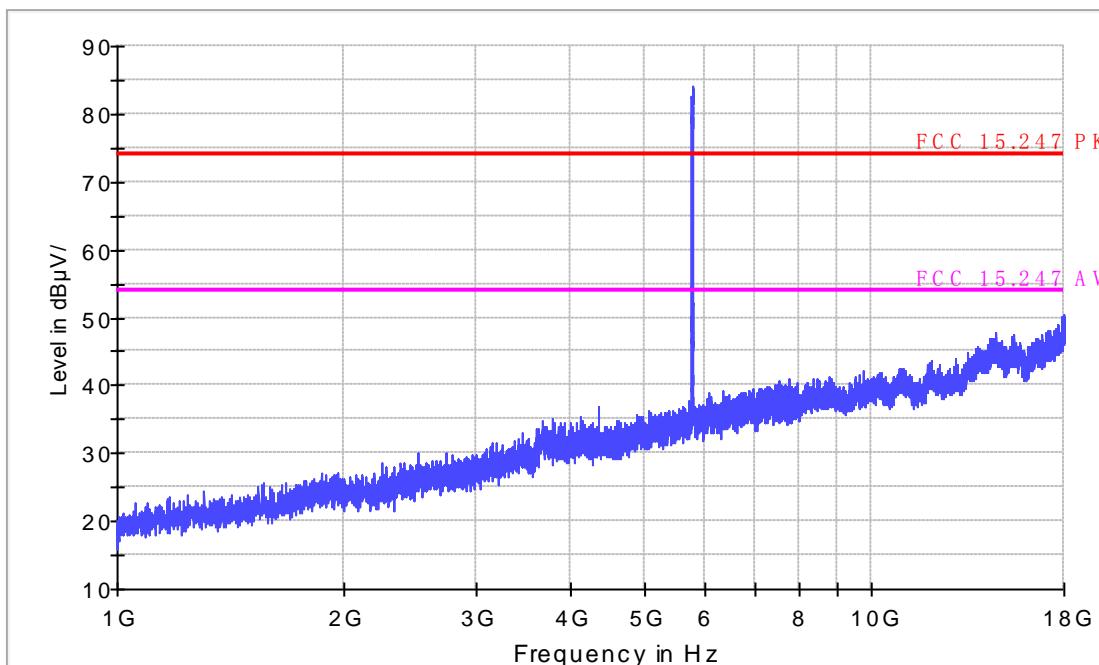
EUT Information

EUT Model Name: Le Max
Operation mode: Wifi 11n HT20 CH157
Test Voltage:
Comment:

Common Information

Test Site: SMQ EMC Lab.
Environment Conditions:
Antenna Polarization: Vertical
Operator Name:
Comment:

FCC Electric Field Strength 1-18GHz operate on 5GHz





1-18G

802.11n HT20

CH165

Radiated Emission

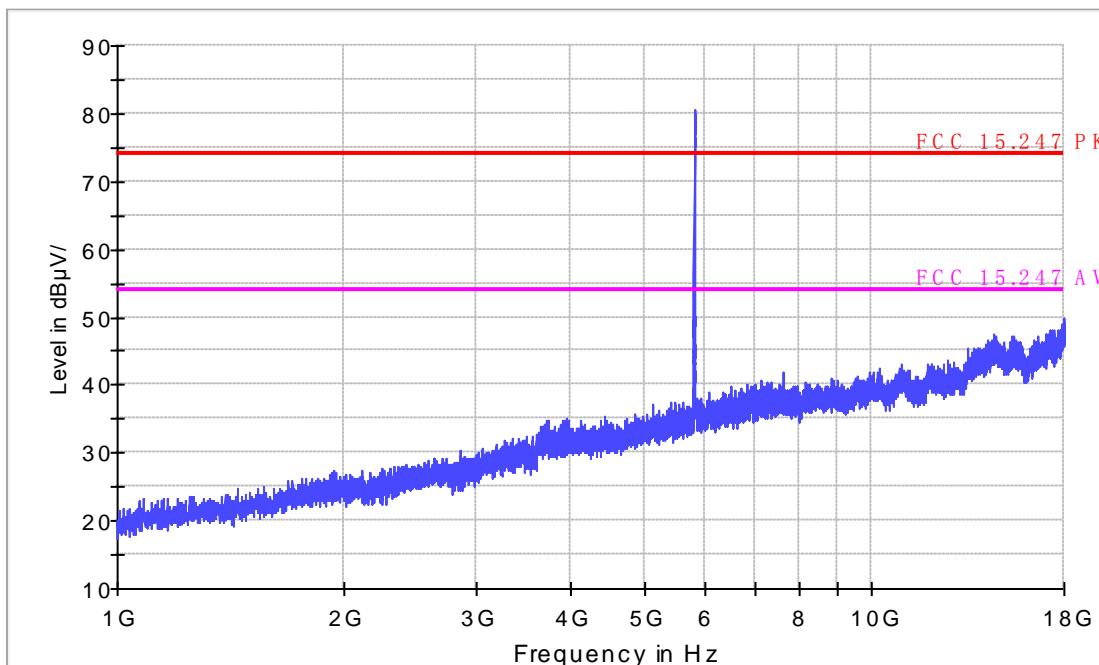
EUT Information

EUT Model Name: Le Max
Operation mode: Wifi 11n HT20 CH165
Test Voltage:
Comment:

Common Information

Test Site: SMQ EMC Lab.
Environment Conditions:
Antenna Polarization: Horizontal
Operator Name:
Comment:

FCC Electric Field Strength 1-18GHz operate on 5GHz





Radiated Emission

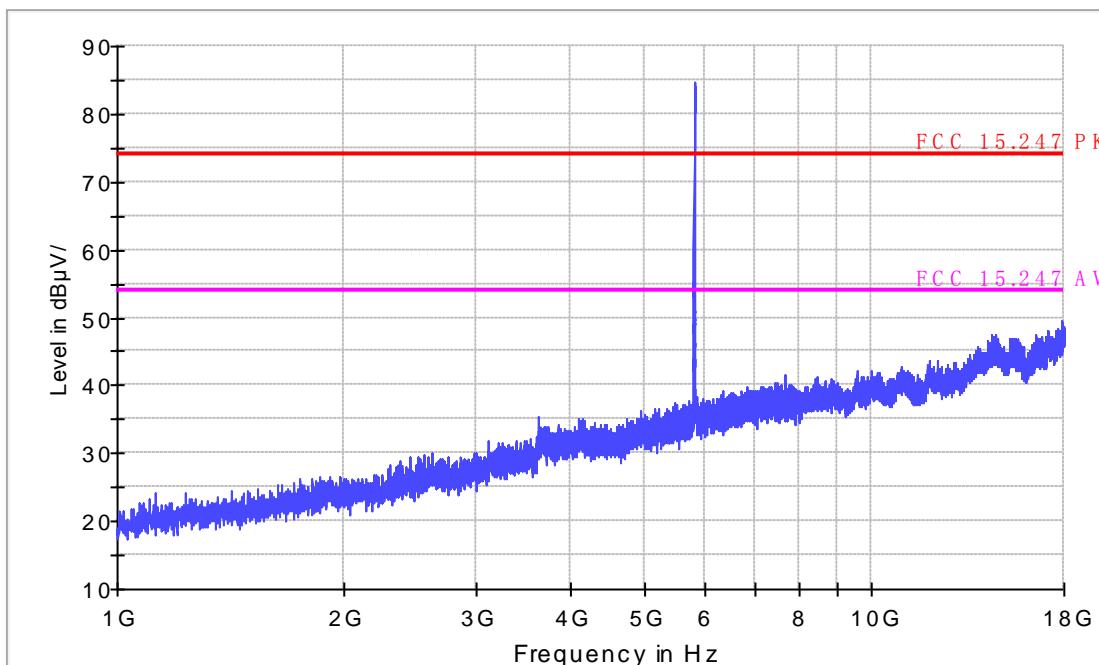
EUT Information

EUT Model Name: Le Max
Operation mode: Wifi 11n HT20 CH165
Test Voltage:
Comment:

Common Information

Test Site: SMQ EMC Lab.
Environment Conditions:
Antenna Polarization: Vertical
Operator Name:
Comment:

FCC Electric Field Strength 1-18GHz operate on 5GHz





1-18G

802.11n-HT40

CH155

Radiated Emission

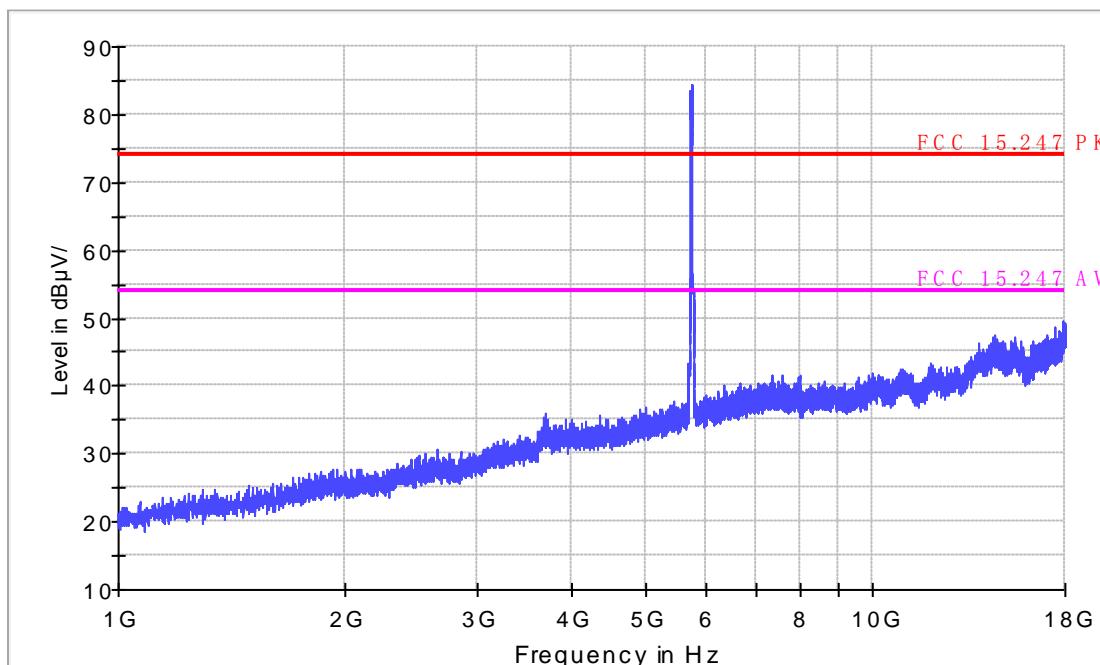
EUT Information

EUT Model Name: Le Max
Operation mode: Wifi 11n HT40 CH155
Test Voltage:
Comment:

Common Information

Test Site: SMQ EMC Lab.
Environment Conditions:
Antenna Polarization: Horizontal
Operator Name:
Comment:

FCC Electric Field Strength 1-18GHz operate on 5GHz





Radiated Emission

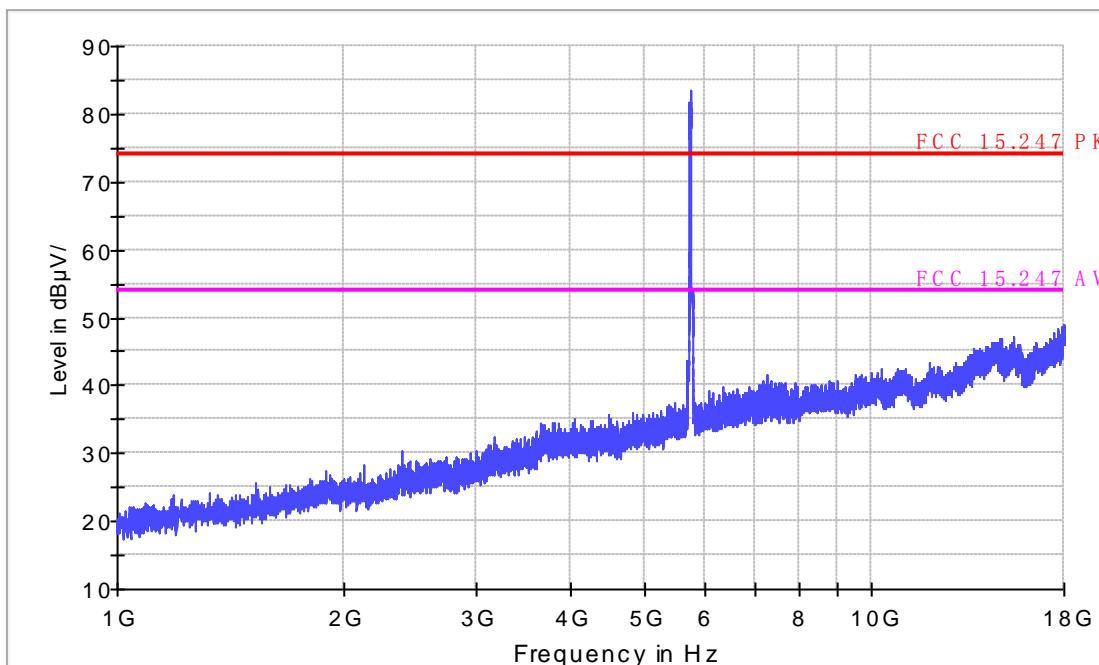
EUT Information

EUT Model Name: Le Max
Operation mode: Wifi 11n HT40 CH155
Test Voltage:
Comment:

Common Information

Test Site: SMQ EMC Lab.
Environment Conditions:
Antenna Polarization: Vertical
Operator Name:
Comment:

FCC Electric Field Strength 1-18GHz operate on 5GHz





1-18G

802.11n-HT40

CH159

Radiated Emission

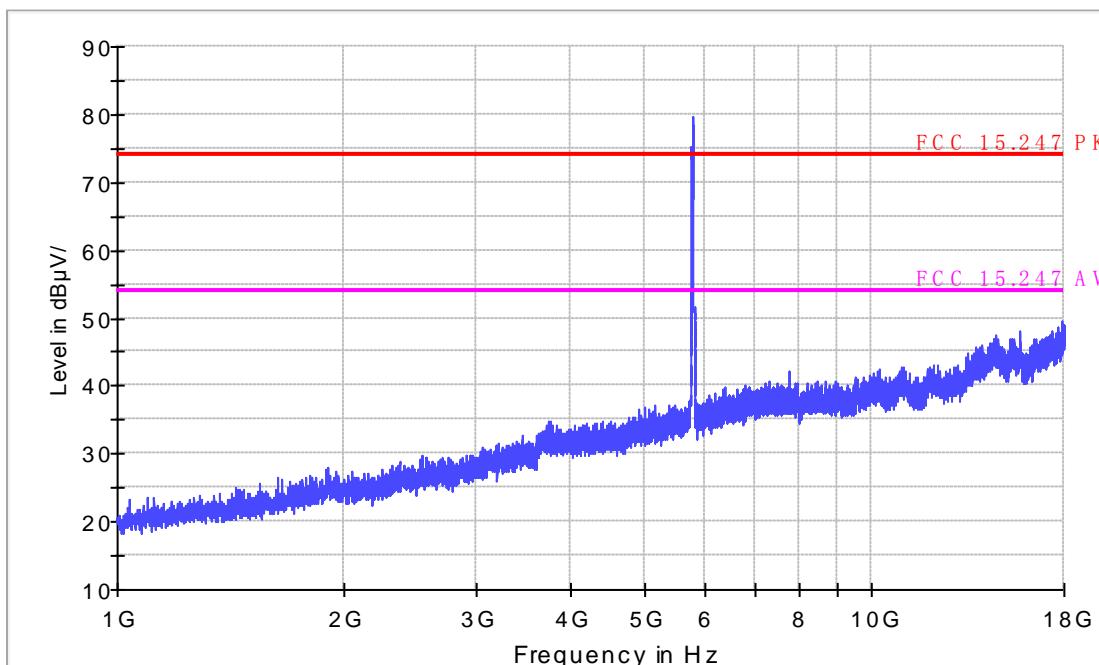
EUT Information

EUT Model Name: Le Max
Operation mode: Wifi 11n HT40 CH159
Test Voltage:
Comment:

Common Information

Test Site: SMQ EMC Lab.
Environment Conditions:
Antenna Polarization: Horizontal
Operator Name:
Comment:

FCC Electric Field Strength 1-18GHz operate on 5GHz





Radiated Emission

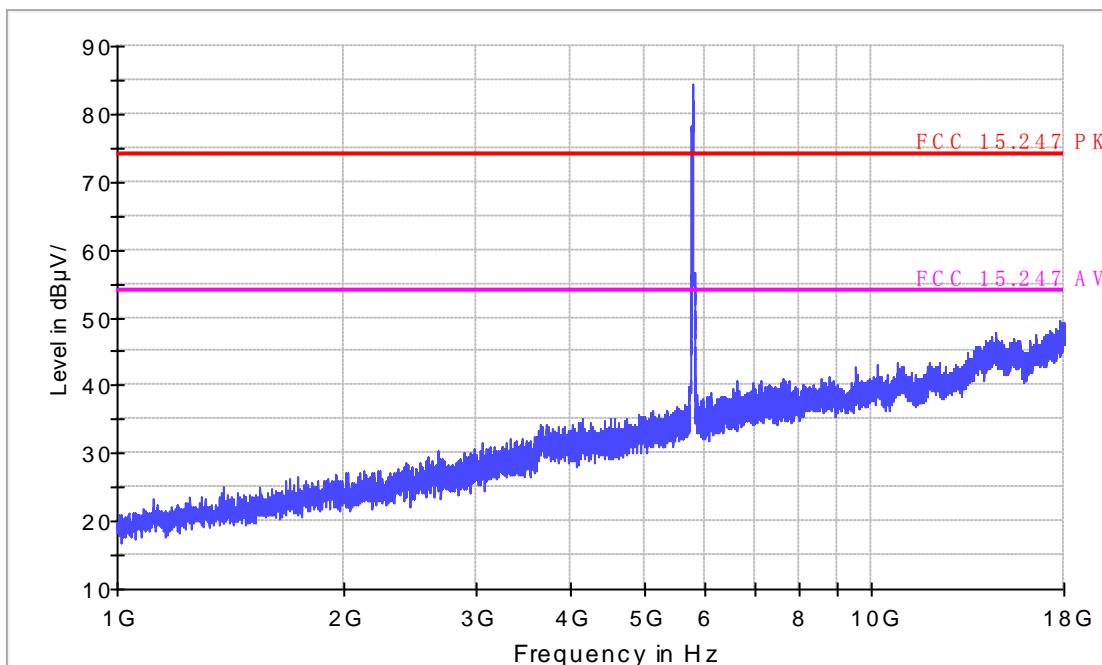
EUT Information

EUT Model Name: Le Max
Operation mode: Wifi 11n HT40 CH159
Test Voltage:
Comment:

Common Information

Test Site: SMQ EMC Lab.
Environment Conditions:
Antenna Polarization: Vertical
Operator Name:
Comment:

FCC Electric Field Strength 1-18GHz operate on 5GHz





1-18G
802.11ac VTH80
CH155

Radiated Emission

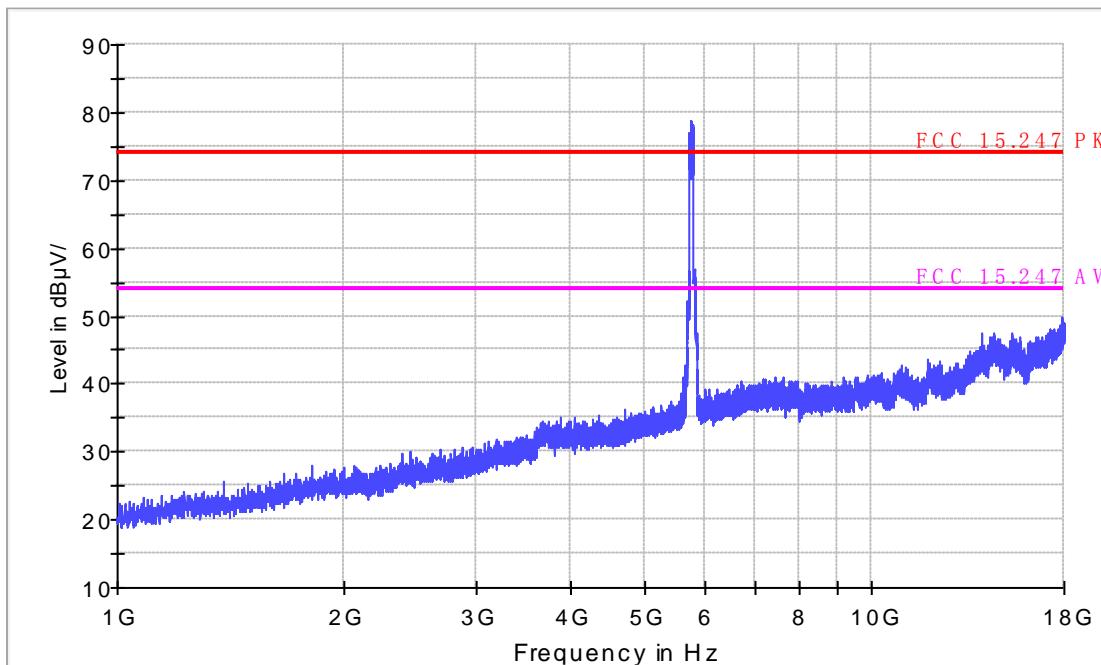
EUT Information

EUT Model Name: Le Max
Operation mode: Wifi 11ac VTH80 CH155
Test Voltage:
Comment:

Common Information

Test Site: SMQ EMC Lab.
Environment Conditions:
Antenna Polarization: Horizontal
Operator Name:
Comment:

FCC Electric Field Strength 1-18GHz operate on 5GHz





Radiated Emission

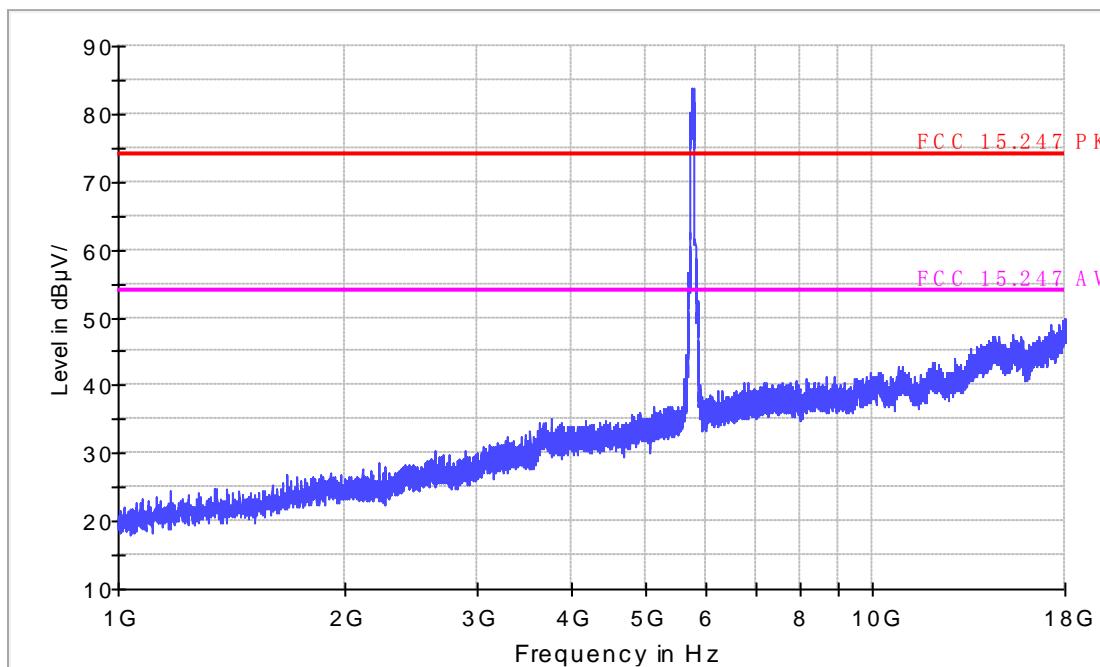
EUT Information

EUT Model Name: Le Max
Operation mode: Wifi 11ac VTH80 CH155
Test Voltage:
Comment:

Common Information

Test Site: SMQ EMC Lab.
Environment Conditions:
Antenna Polarization: Vertical
Operator Name:
Comment:

FCC Electric Field Strength 1-18GHz operate on 5GHz



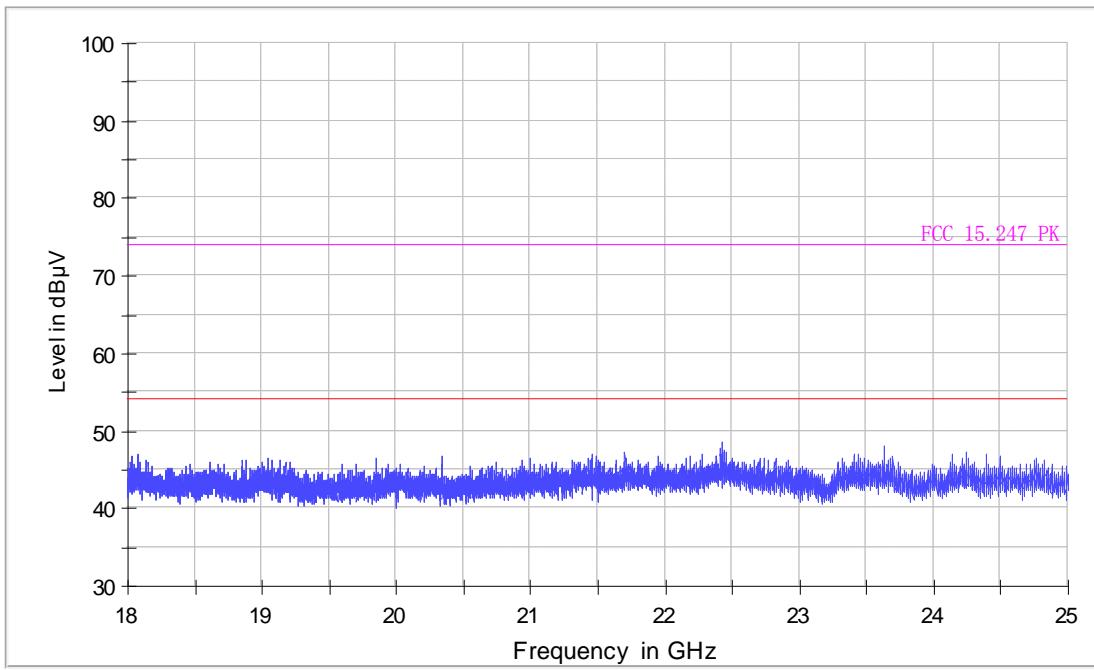


18-26.5GHz

No Peak found in pre-scan, only worst case result is listed in this report.

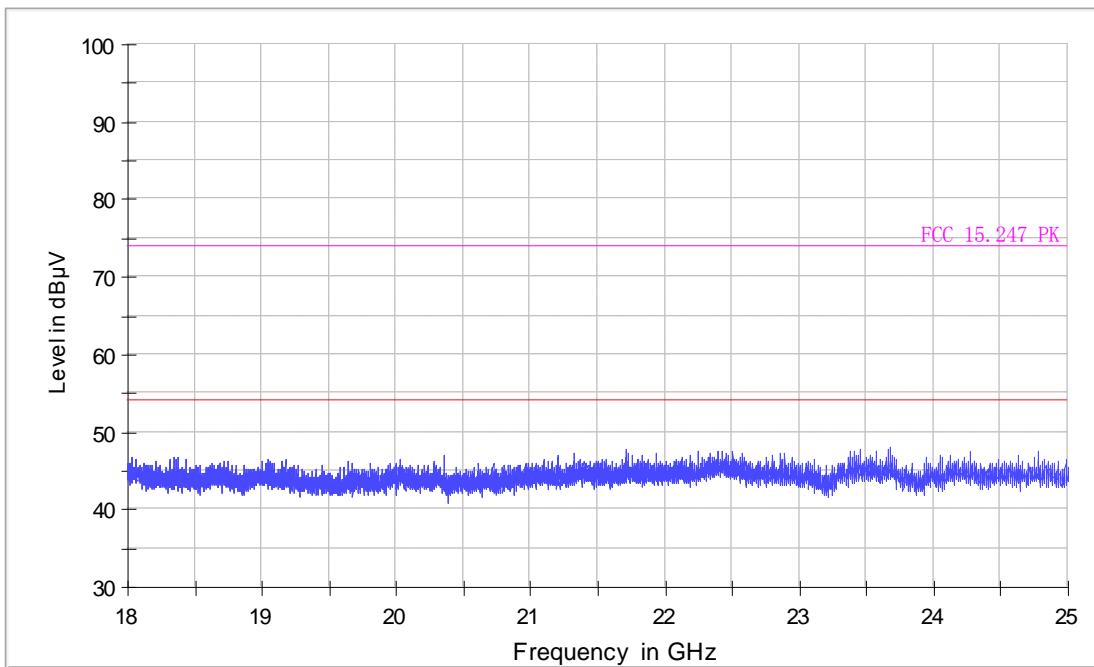
Horizontal

FCC Electric Field Strength 18-26.5GHz



Vertical

FCC Electric Field Strength 18-26.5GHz





For 5.2G Band edge

802.11a

CH36

Radiated Bandedge

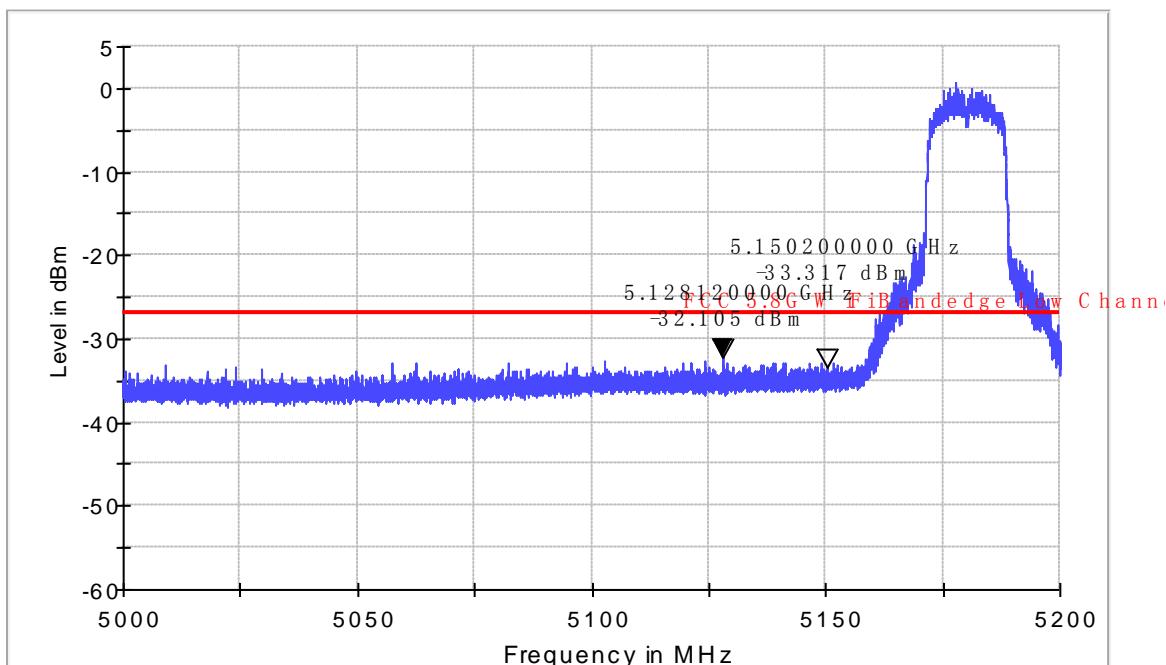
EUT Information

EUT Model Name: Le Max
Operation mode: Wifi 11a CH36
Test Voltage:
Comment:

Common Information

Test Site: SMQ EMC Lab.
Environment Conditions:
Antenna Polarization: Horizontal
Operator Name:
Comment:

FCC WiFi 5.8GHz Bandedge-PK





Radiated Bandedge

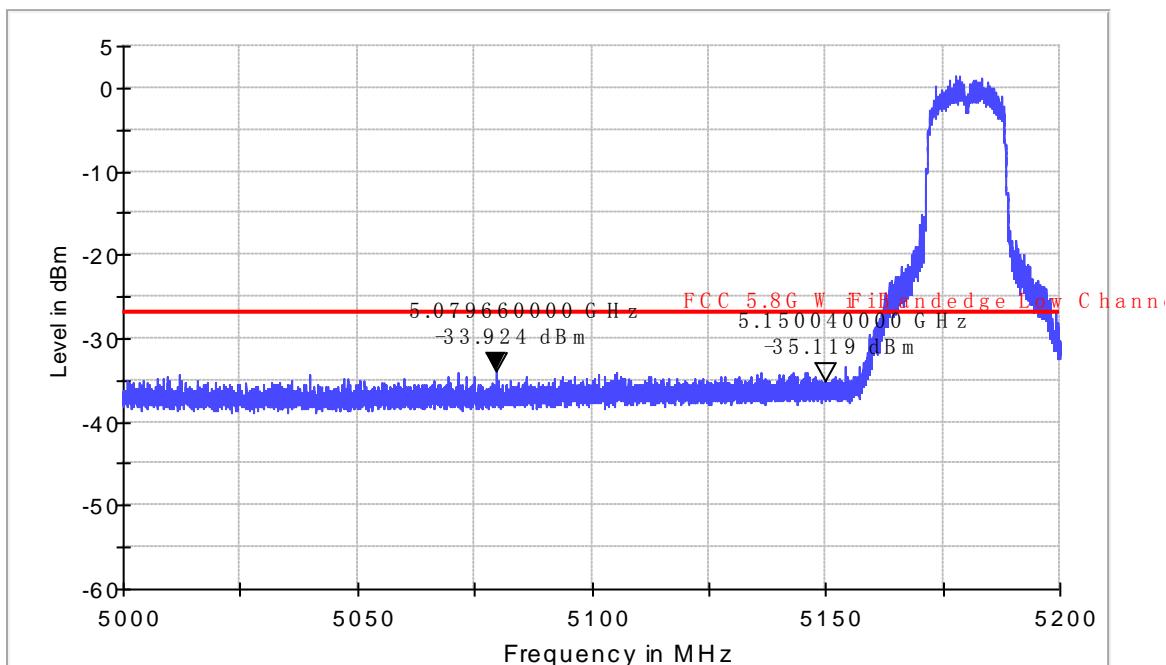
EUT Information

EUT Model Name: Le Max
Operation mode: Wifi 11a CH36
Test Voltage:
Comment:

Common Information

Test Site: SMQ EMC Lab.
Environment Conditions:
Antenna Polarization: Vertical
Operator Name:
Comment:

FCC WiFi 5.8GHz Bandedge-PK





802.11n HT20

CH36

Radiated Bandedge

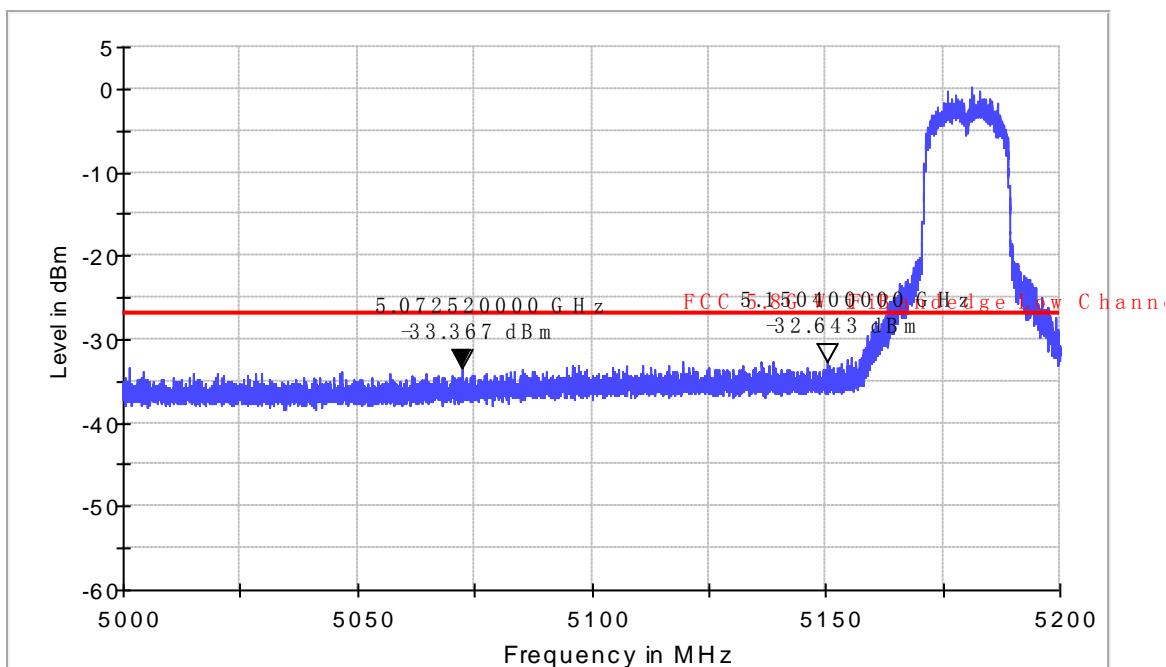
EUT Information

EUT Model Name: Le Max
Operation mode: Wifi 11n HT20 CH36
Test Voltage:
Comment:

Common Information

Test Site: SMQ EMC Lab.
Environment Conditions:
Antenna Polarization: Horizontal
Operator Name:
Comment:

FCC WiFi 5.8GHz Bandedge-PK





Radiated Bandedge

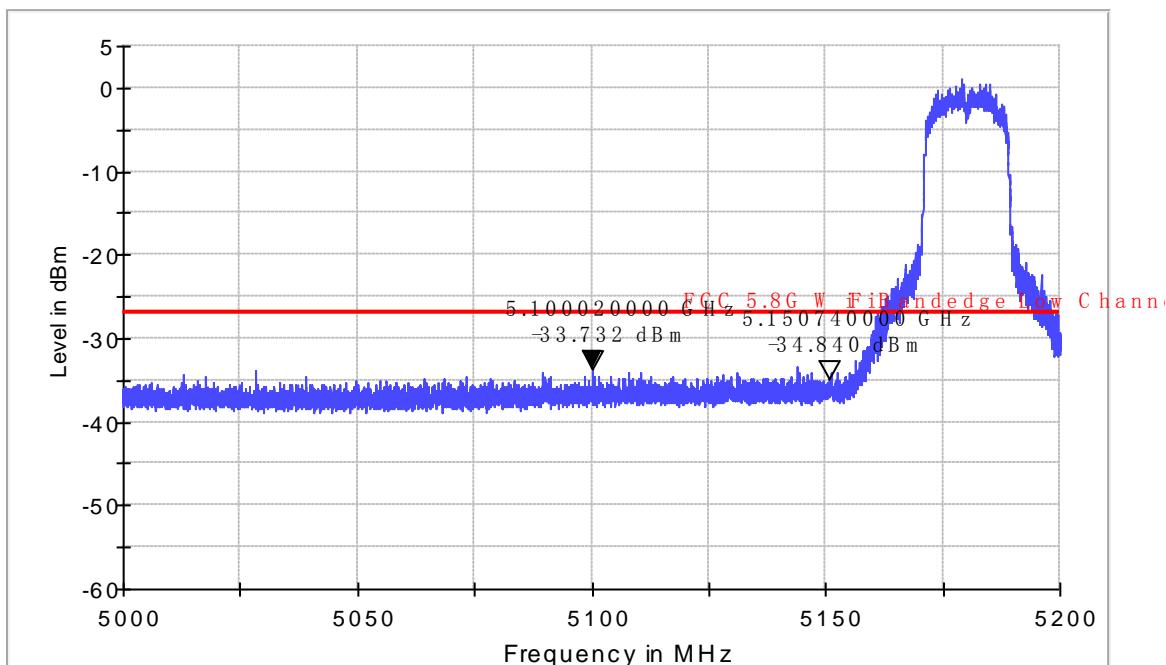
EUT Information

EUT Model Name: Le Max
Operation mode: Wifi 11n HT20 CH36
Test Voltage:
Comment:

Common Information

Test Site: SMQ EMC Lab.
Environment Conditions:
Antenna Polarization: Vertical
Operator Name:
Comment:

FCC WiFi 5.8GHz Bandedge-PK





802.11n-HT40

CH38

Radiated Bandedge

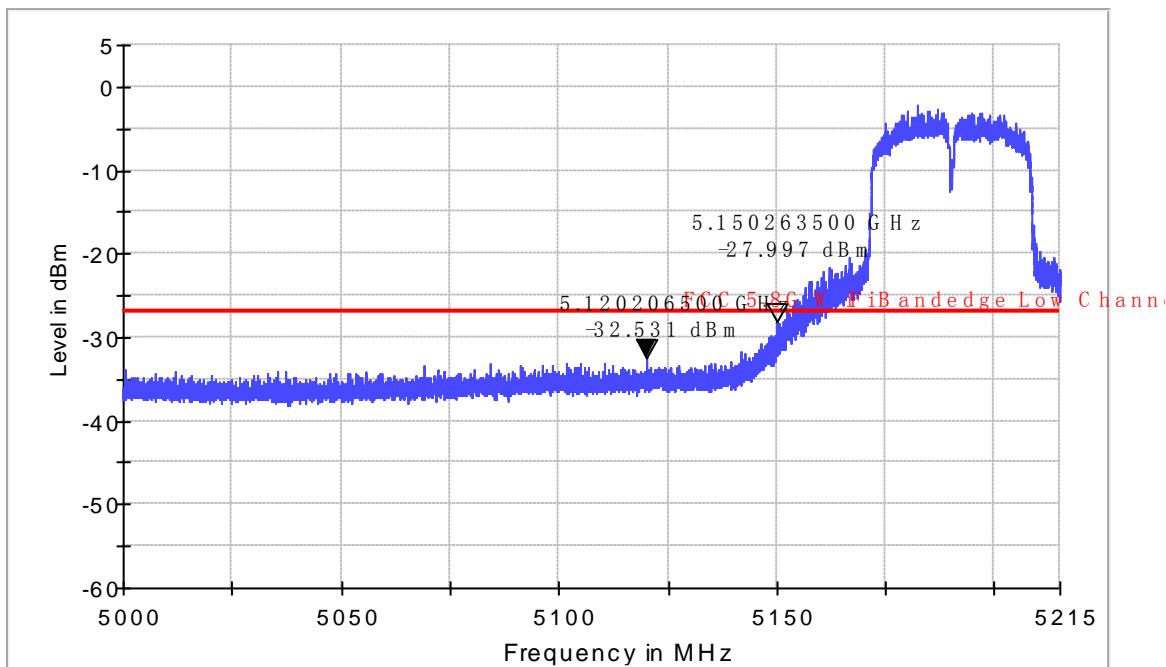
EUT Information

EUT Model Name: Le Max
Operation mode: Wifi 11n HT40 CH38
Test Voltage:
Comment:

Common Information

Test Site: SMQ EMC Lab.
Environment Conditions:
Antenna Polarization: Horizontal
Operator Name:
Comment:

FCC WiFi 5.8GHz Bandedge-PK





Radiated Bandedge

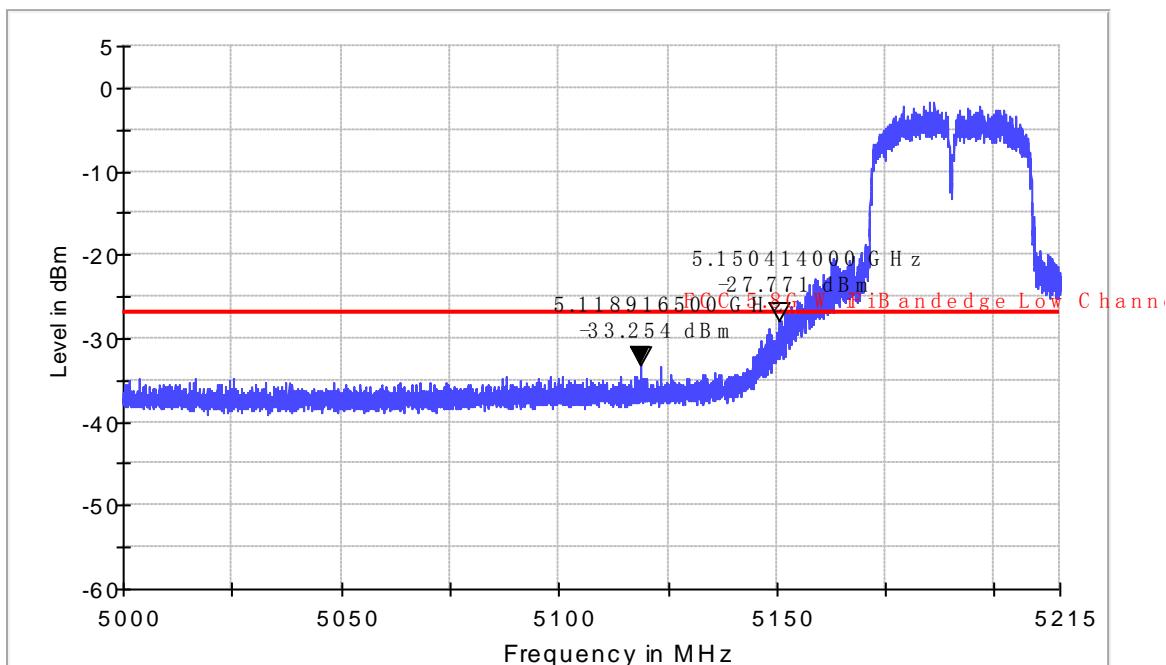
EUT Information

EUT Model Name: Le Max
Operation mode: Wifi 11n HT40 CH38
Test Voltage:
Comment:

Common Information

Test Site: SMQ EMC Lab.
Environment Conditions:
Antenna Polarization: Vertical
Operator Name:
Comment:

FCC WiFi 5.8GHz Bandedge-PK



802.11ac VHT80

Report Number: 68.950.15.289.01

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Fax: +86 755 8828 5299



CH42

Radiated Bandedge

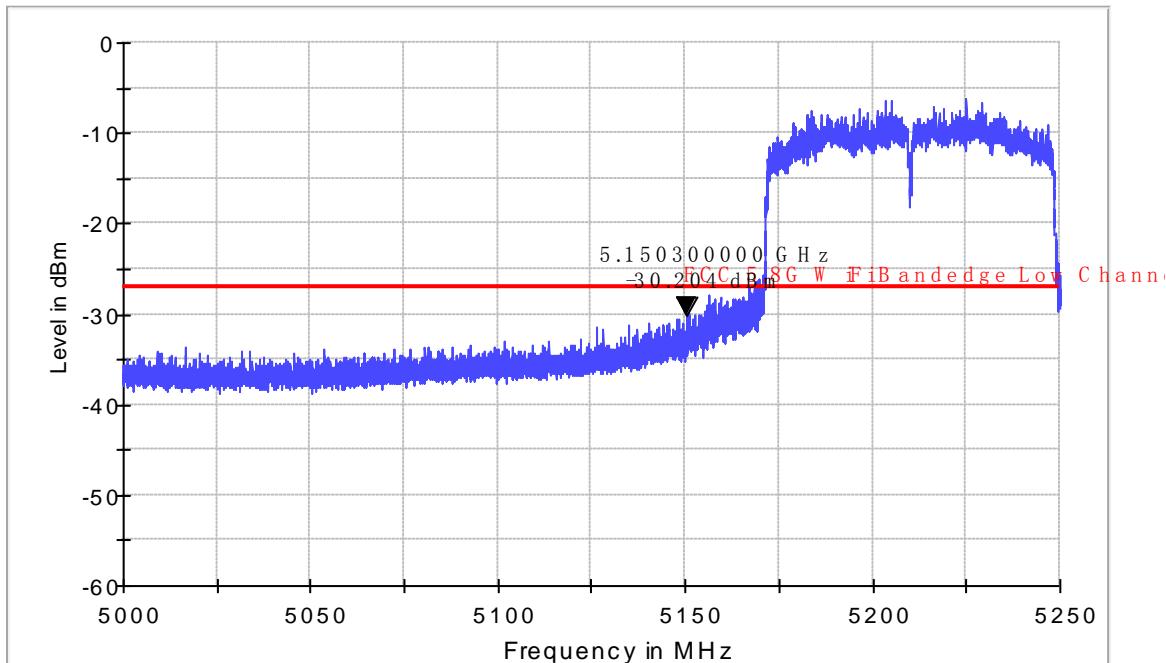
EUT Information

EUT Model Name: Le Max
Operation mode: Wifi 11ac VHT80 CH42
Test Voltage:
Comment:

Common Information

Test Site: SMQ EMC Lab.
Environment Conditions:
Antenna Polarization: Horizontal
Operator Name:
Comment:

FCC WiFi 5.8GHz Bandedge-PK





Radiated Bandedge

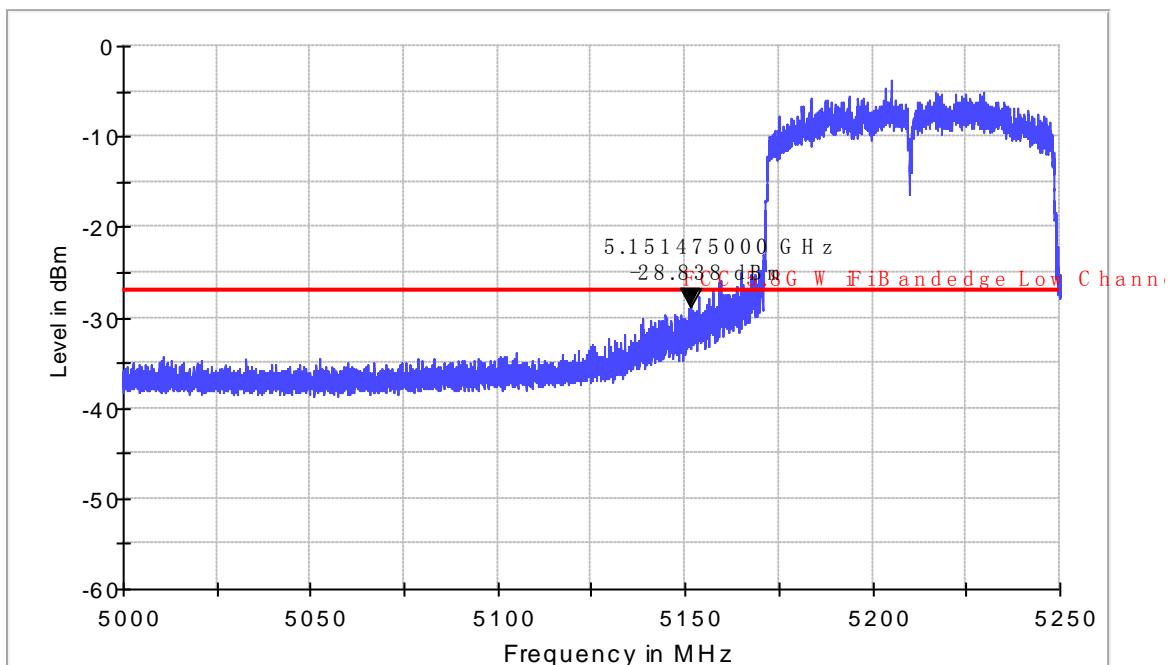
EUT Information

EUT Model Name: Le Max
Operation mode: Wifi 11ac VHT80 CH42
Test Voltage:
Comment:

Common Information

Test Site: SMQ EMC Lab.
Environment Conditions:
Antenna Polarization: Vertical
Operator Name:
Comment:

FCC WiFi 5.8GHz Bandedge-PK





For 5.8G Band edge

802.11a

CH149

Radiated Bandedge

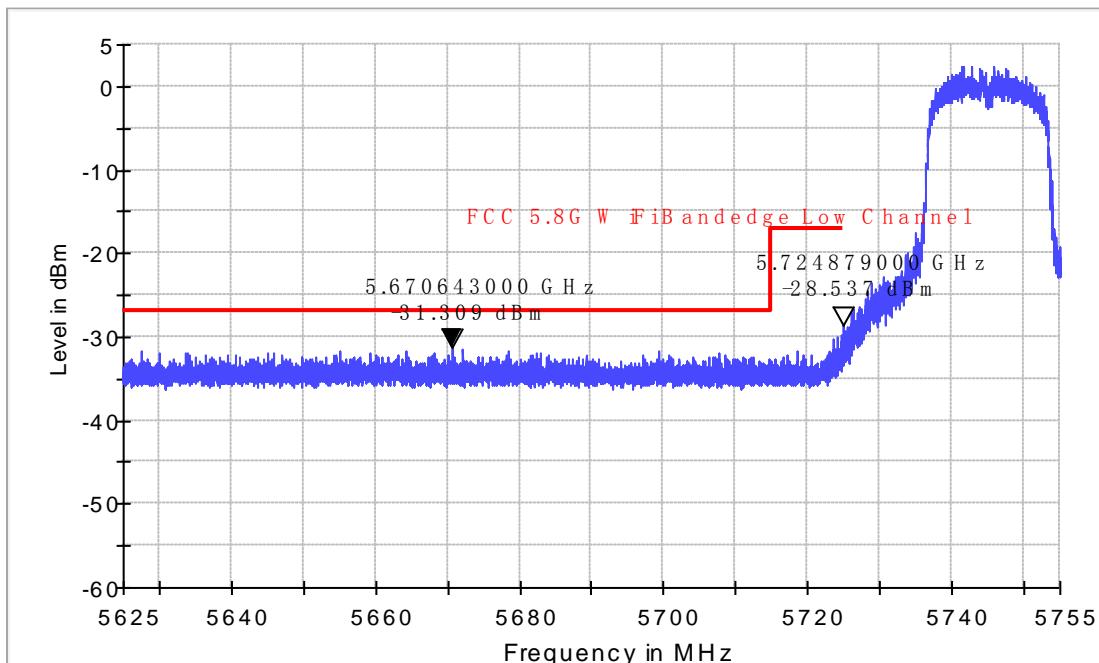
EUT Information

EUT Model Name: Le Max
Operation mode: Wifi 11a CH149
Test Voltage:
Comment:

Common Information

Test Site: SMQ EMC Lab.
Environment Conditions:
Antenna Polarization: Horizontal
Operator Name:
Comment:

FCC WiFi 5.8GHz Bandedge-PK





Radiated Bandedge

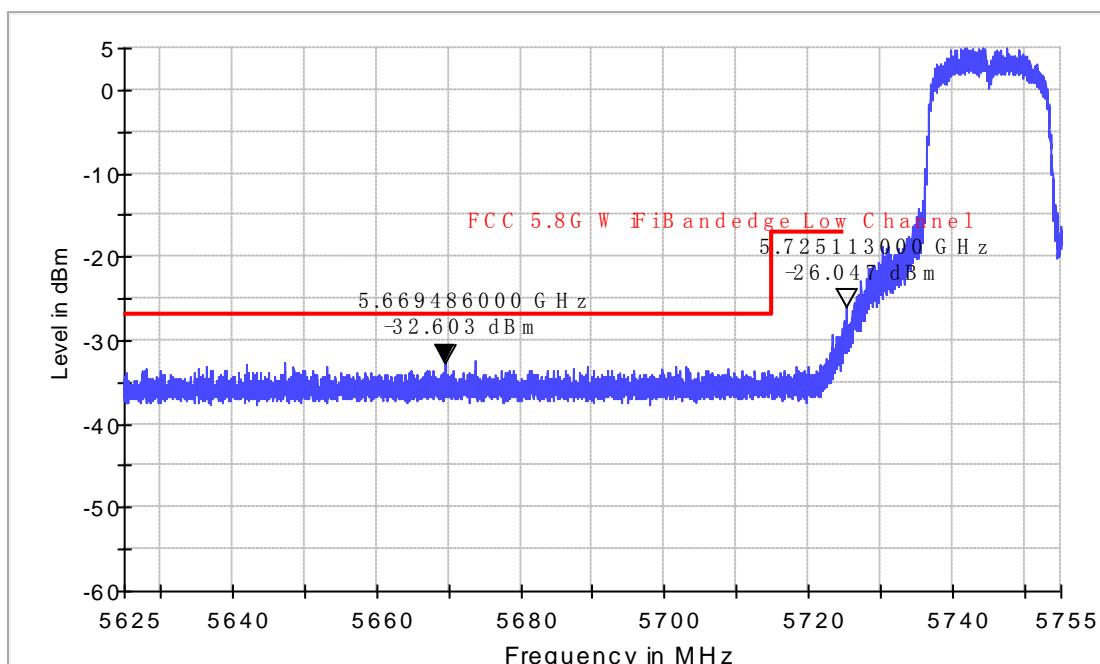
EUT Information

EUT Model Name: Le Max
Operation mode: Wifi 11a CH149
Test Voltage:
Comment:

Common Information

Test Site: SMQ EMC Lab.
Environment Conditions:
Antenna Polarization: Vertical
Operator Name:
Comment:

FCC WiFi 5.8GHz Bandedge-PK



802.11n HT20

Report Number: 68.950.15.289.01

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Fax: +86 755 8828 5299

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CH149

Radiated Bandedge

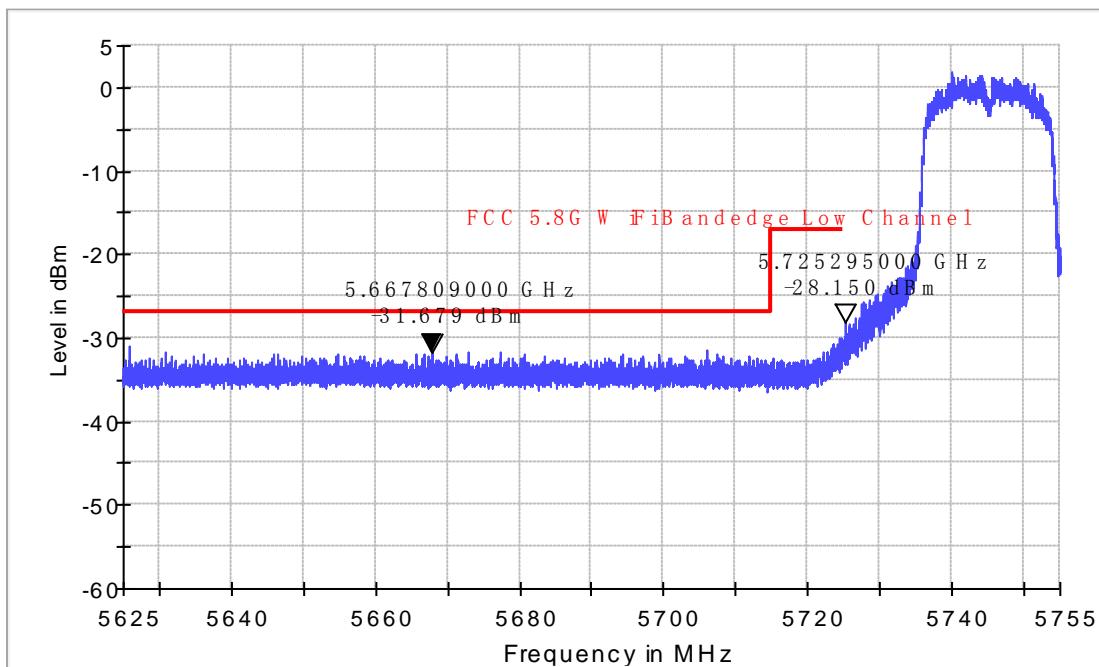
EUT Information

EUT Model Name: Le Max
Operation mode: Wifi 11n HT20 CH149
Test Voltage:
Comment:

Common Information

Test Site: SMQ EMC Lab.
Environment Conditions:
Antenna Polarization: Horizontal
Operator Name:
Comment:

FCC WiFi 5.8GHz Bandedge-PK





Radiated Bandedge

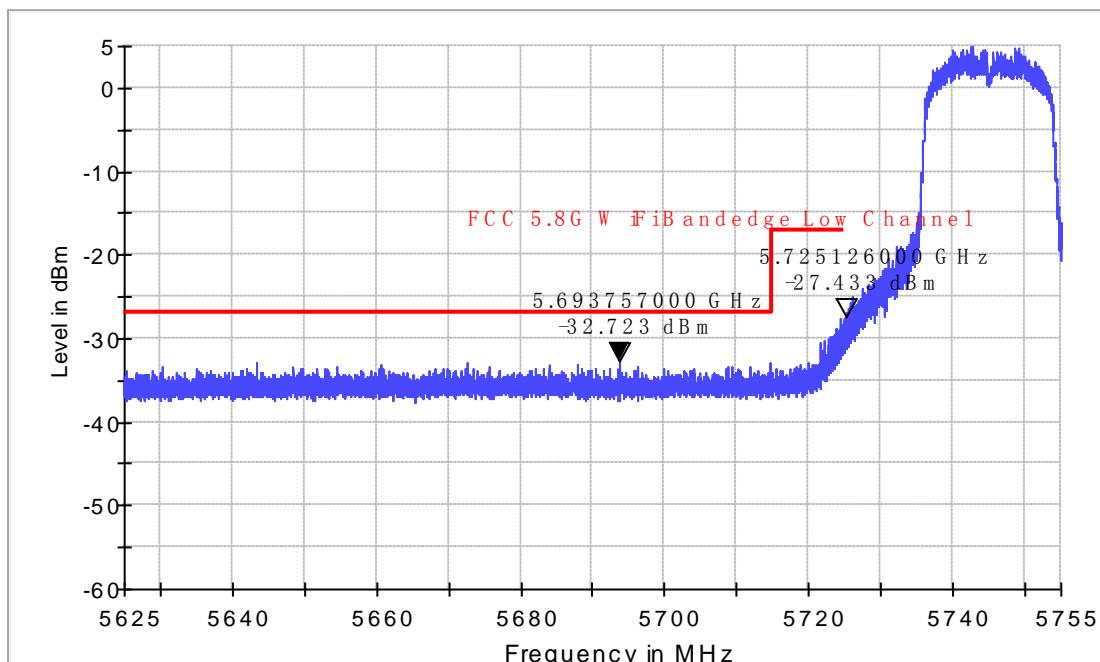
EUT Information

EUT Model Name: Le Max
Operation mode: Wifi 11n HT20 CH149
Test Voltage:
Comment:

Common Information

Test Site: SMQ EMC Lab.
Environment Conditions:
Antenna Polarization: Vertical
Operator Name:
Comment:

FCC WiFi 5.8GHz Bandedge-PK





802.11n-HT40

CH151

Radiated Bandedge

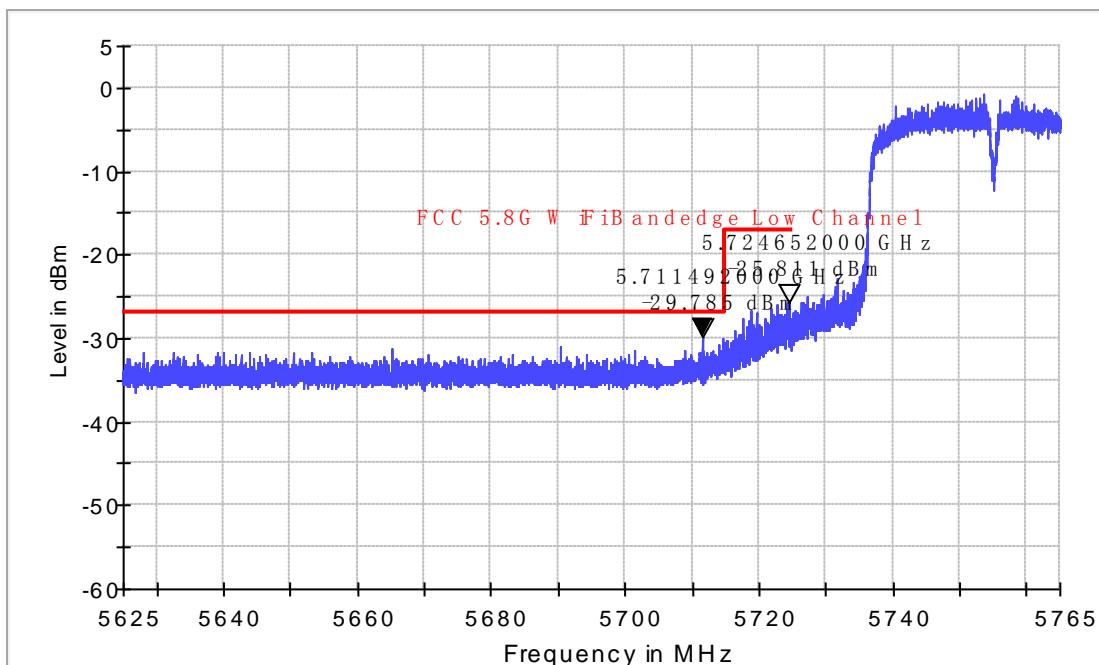
EUT Information

EUT Model Name: Le Max
Operation mode: Wifi 11n HT40 CH151
Test Voltage:
Comment:

Common Information

Test Site: SMQ EMC Lab.
Environment Conditions:
Antenna Polarization: Horizontal
Operator Name:
Comment:

FCC WiFi 5.8GHz Bandedge-PK





Radiated Bandedge

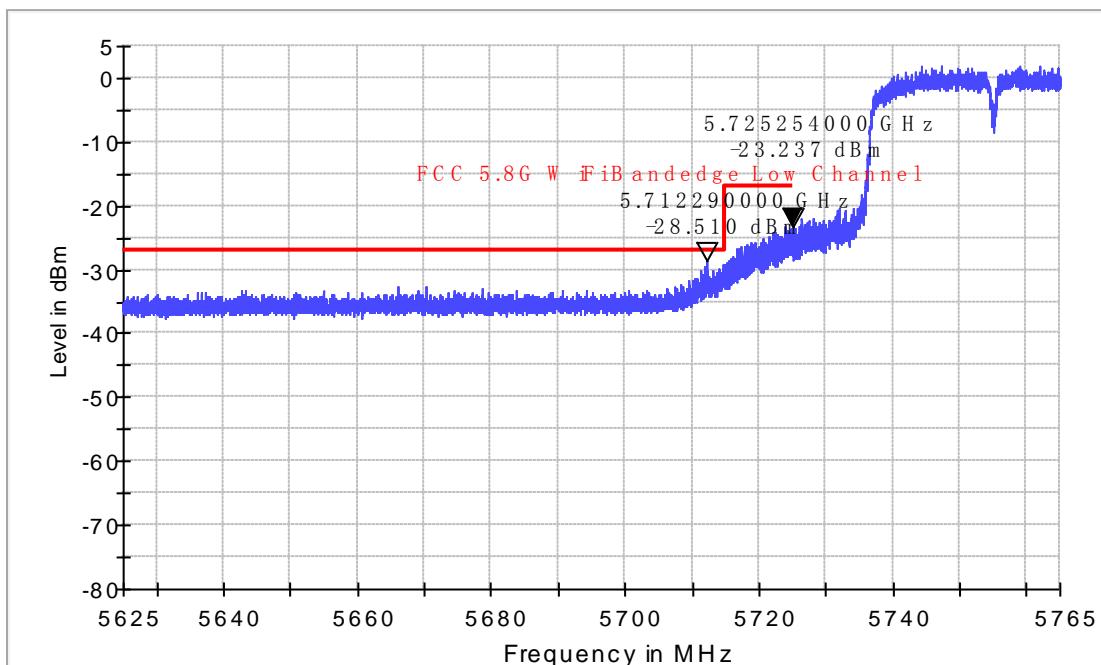
EUT Information

EUT Model Name: Le Max
Operation mode: Wifi 11n HT40 CH151
Test Voltage:
Comment:

Common Information

Test Site: SMQ EMC Lab.
Environment Conditions:
Antenna Polarization: Vertical
Operator Name:
Comment:

FCC WiFi 5.8GHz Bandedge-PK



802.11ac-VHT80

Report Number: 68.950.15.289.01

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Fax: +86 755 8828 5299



CH155

Radiated Bandedge

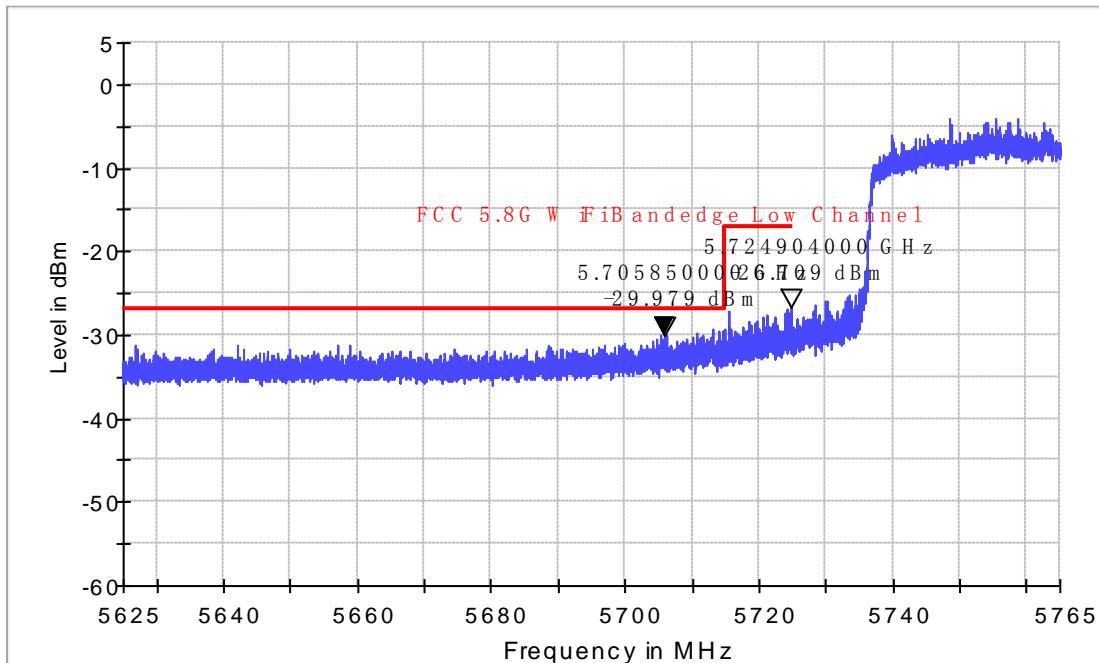
EUT Information

EUT Model Name: Le Max
Operation mode: Wifi 11ac VHT80 CH155
Test Voltage:
Comment:

Common Information

Test Site: SMQ EMC Lab.
Environment Conditions:
Antenna Polarization: Horizontal
Operator Name:
Comment:

FCC WiFi 5.8GHz Bandedge-PK





Radiated Bandedge

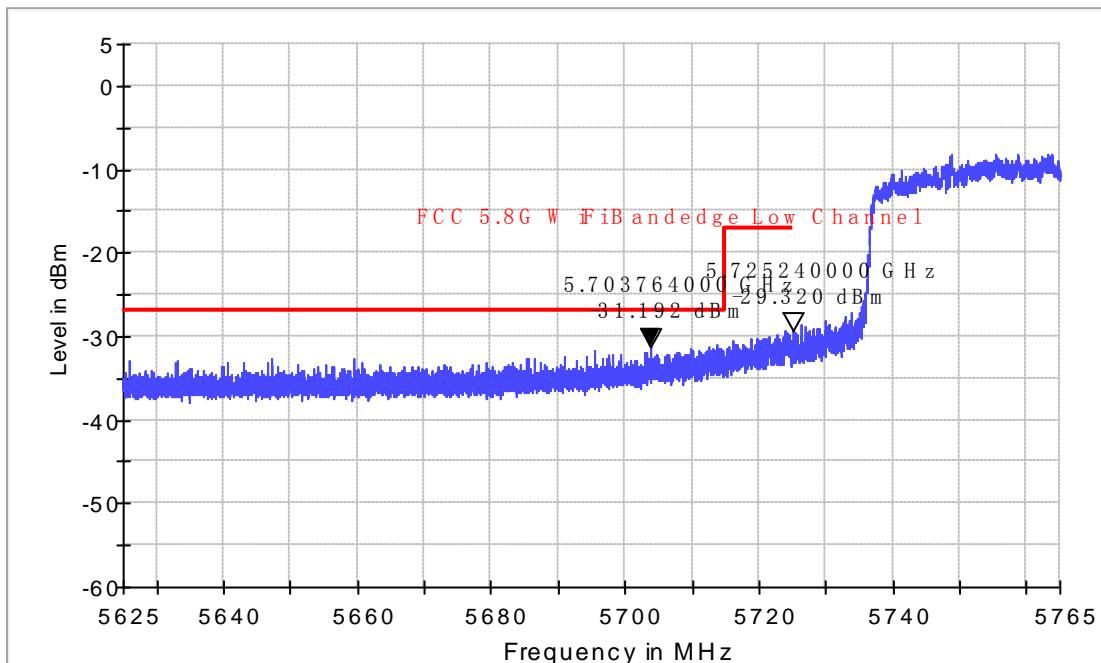
EUT Information

EUT Model Name: Le Max
Operation mode: Wifi 11ac VHT80 CH155
Test Voltage:
Comment:

Common Information

Test Site: SMQ EMC Lab.
Environment Conditions:
Antenna Polarization: Vertical
Operator Name:
Comment:

FCC WiFi 5.8GHz Bandedge-PK



For 5.8G Band edge

Report Number: 68.950.15.289.01

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Fax: +86 755 8828 5299



802.11a

CH165

Radiated Bandedge

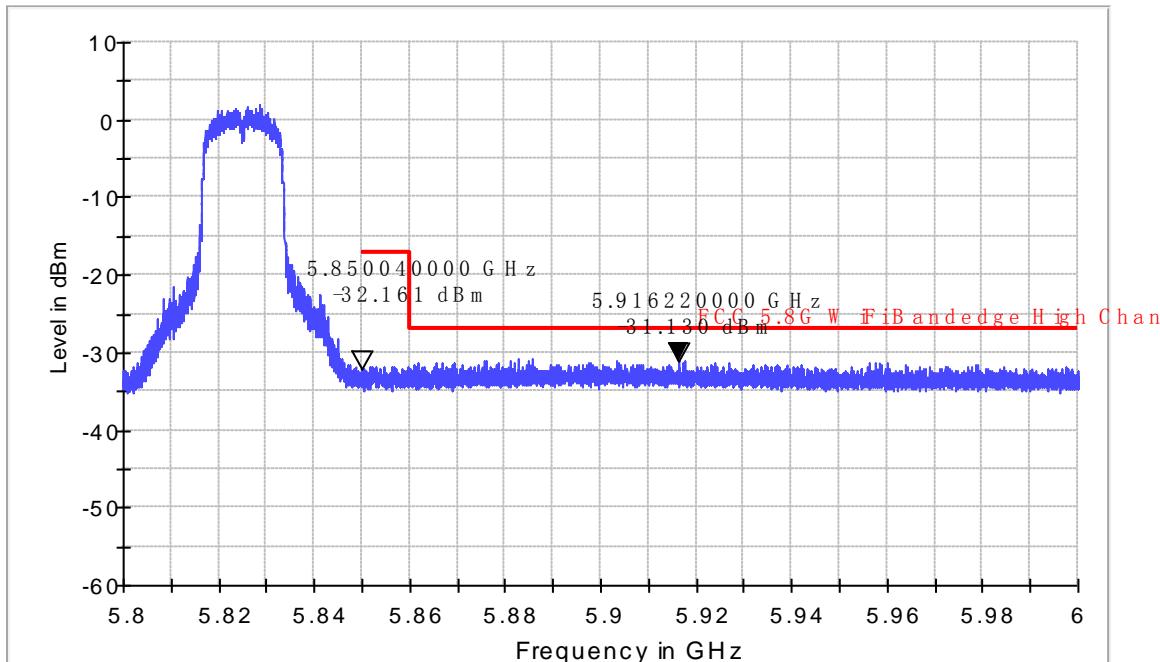
EUT Information

EUT Model Name: Le Max
Operation mode: Wifi 11a CH165
Test Voltage:
Comment:

Common Information

Test Site: SMQ EMC Lab.
Environment Conditions:
Antenna Polarization: Horizontal
Operator Name:
Comment:

FCC WiFi 5.8GHz Bandedge-PK





Radiated Bandedge

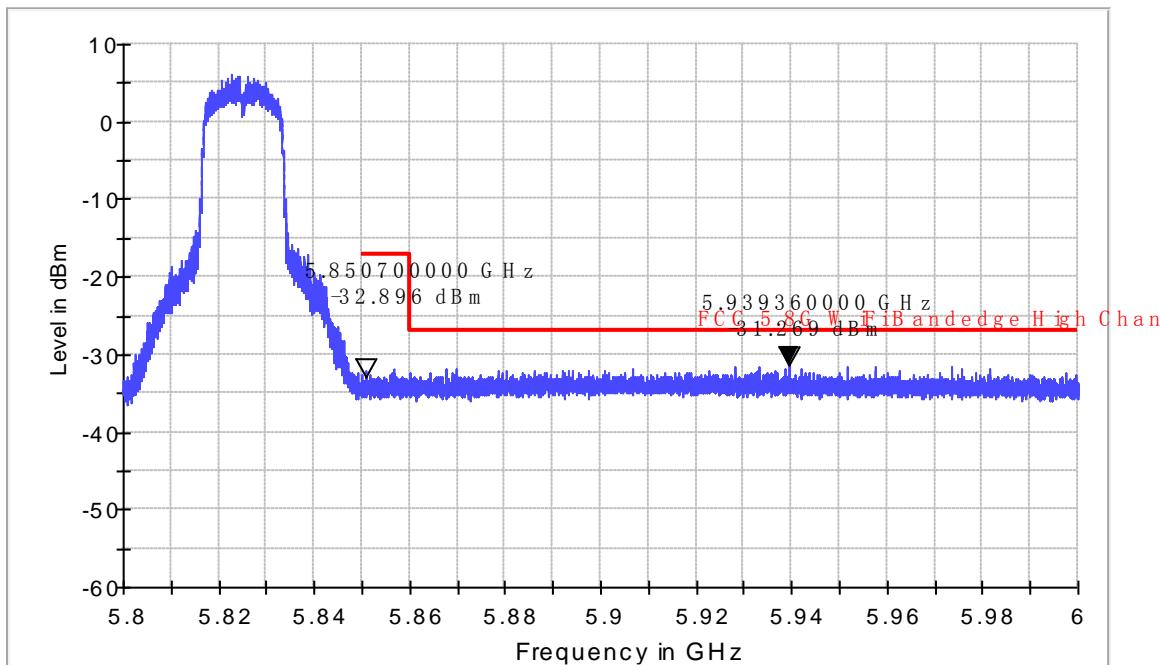
EUT Information

EUT Model Name: Le Max
Operation mode: Wifi 11a CH165
Test Voltage:
Comment:

Common Information

Test Site: SMQ EMC Lab.
Environment Conditions:
Antenna Polarization: Vertical
Operator Name:
Comment:

FCC WiFi 5.8GHz Bandedge-PK





Band edge
802.11n HT20
CH165

Radiated Bandedge

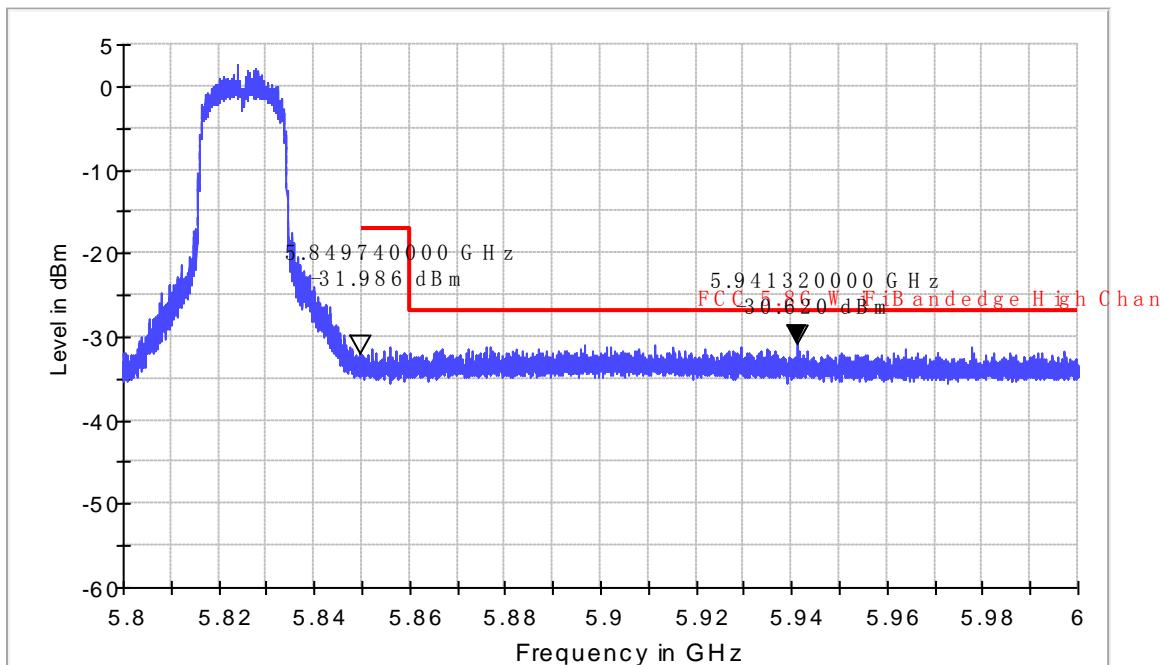
EUT Information

EUT Model Name: Le Max
Operation mode: Wifi 11n HT20 CH165
Test Voltage:
Comment:

Common Information

Test Site: SMQ EMC Lab.
Environment Conditions:
Antenna Polarization: Horizontal
Operator Name:
Comment:

FCC WiFi 5.8GHz Bandedge-PK





Radiated Bandedge

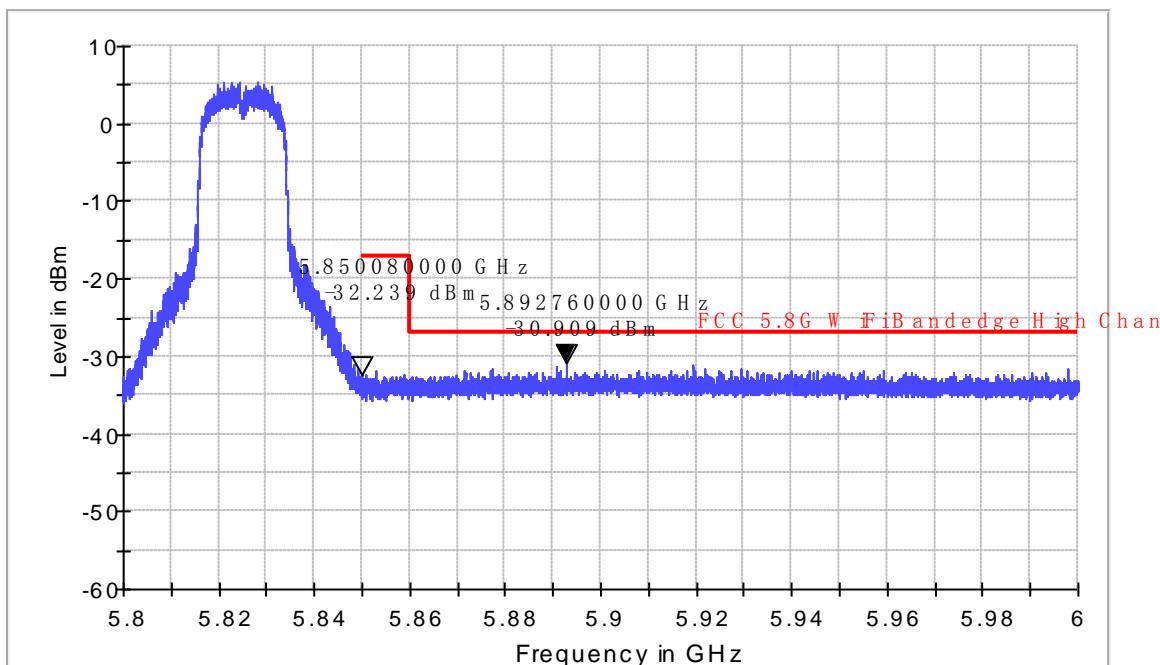
EUT Information

EUT Model Name: Le Max
Operation mode: Wifi 11n HT20 CH165
Test Voltage:
Comment:

Common Information

Test Site: SMQ EMC Lab.
Environment Conditions:
Antenna Polarization: Vertical
Operator Name:
Comment:

FCC WiFi 5.8GHz Bandedge-PK





Band edge
802.11n HT40
CH159

Radiated Bandedge

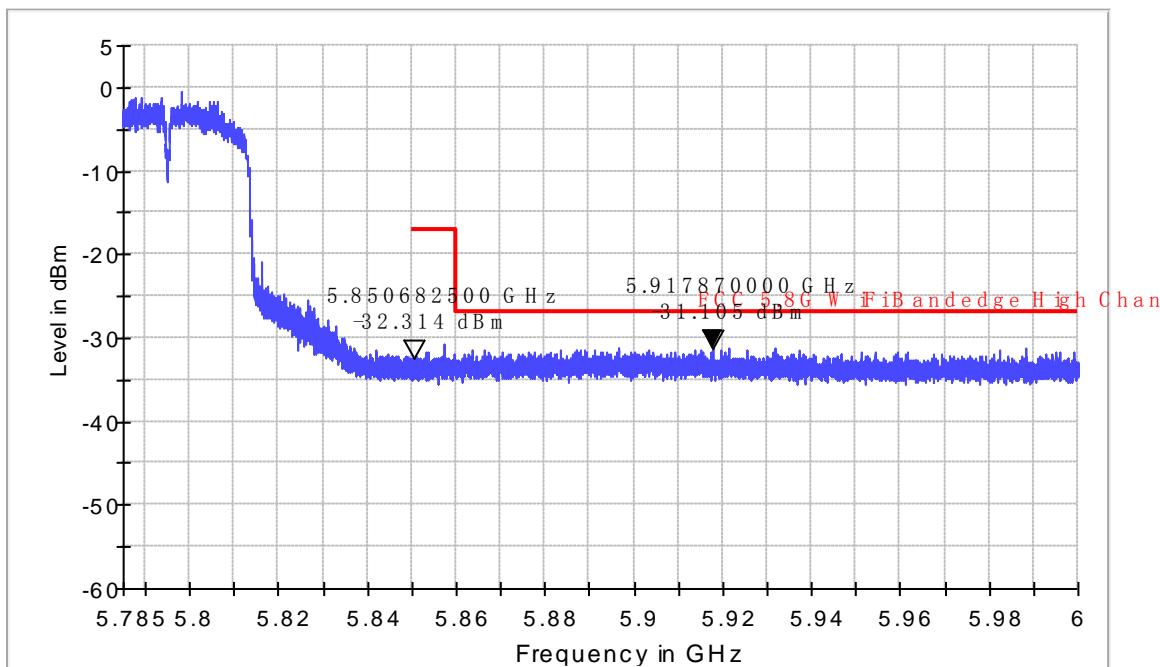
EUT Information

EUT Model Name: Le Max
Operation mode: Wifi 11n HT40 CH159
Test Voltage:
Comment:

Common Information

Test Site: SMQ EMC Lab.
Environment Conditions:
Antenna Polarization: Horizontal
Operator Name:
Comment:

FCC WiFi 5.8GHz Bandedge-PK





Radiated Bandedge

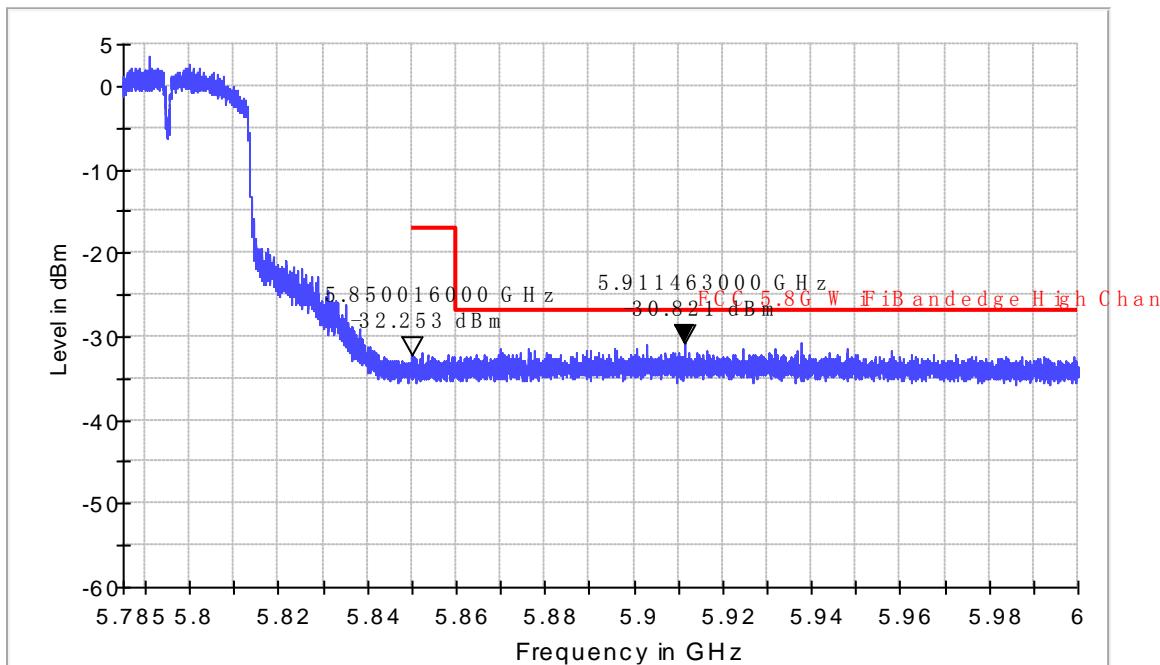
EUT Information

EUT Model Name: Le Max
Operation mode: Wifi 11n HT40 CH159
Test Voltage:
Comment:

Common Information

Test Site: SMQ EMC Lab.
Environment Conditions:
Antenna Polarization: Vertical
Operator Name:
Comment:

FCC WiFi 5.8GHz Bandedge-PK





Band edge
802.11ac VHT80
CH155

Radiated Bandedge

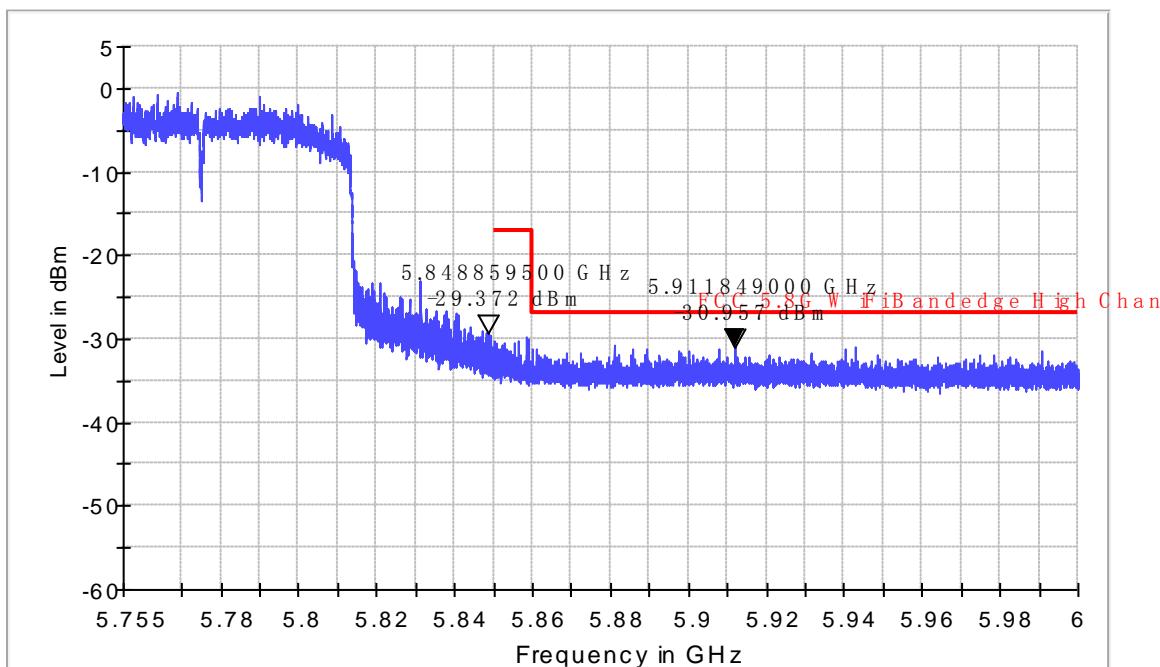
EUT Information

EUT Model Name: Le Max
Operation mode: Wifi 11 ac VHT80 CH155
Test Voltage:
Comment:

Common Information

Test Site: SMQ EMC Lab.
Environment Conditions:
Antenna Polarization: Horizontal
Operator Name:
Comment:

FCC WiFi 5.8GHz Bandedge-PK





Radiated Bandedge

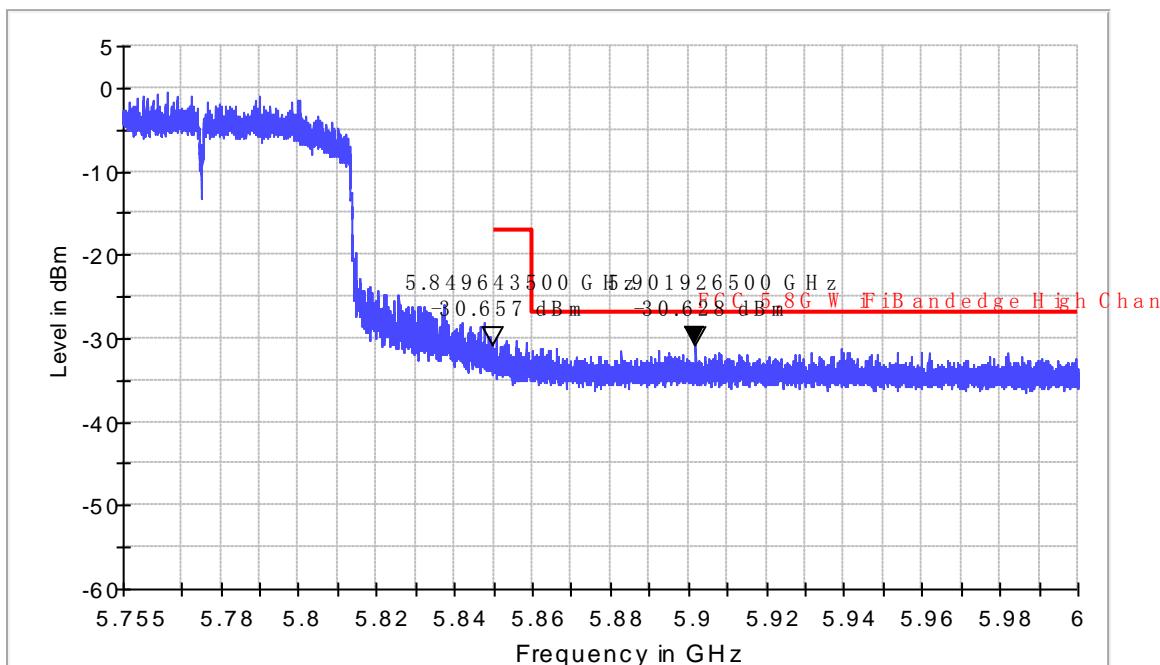
EUT Information

EUT Model Name: Le Max
Operation mode: Wifi 11 ac VHT80 CH155
Test Voltage:
Comment:

Common Information

Test Site: SMQ EMC Lab.
Environment Conditions:
Antenna Polarization: Vertical
Operator Name:
Comment:

FCC WiFi 5.8GHz Bandedge-PK



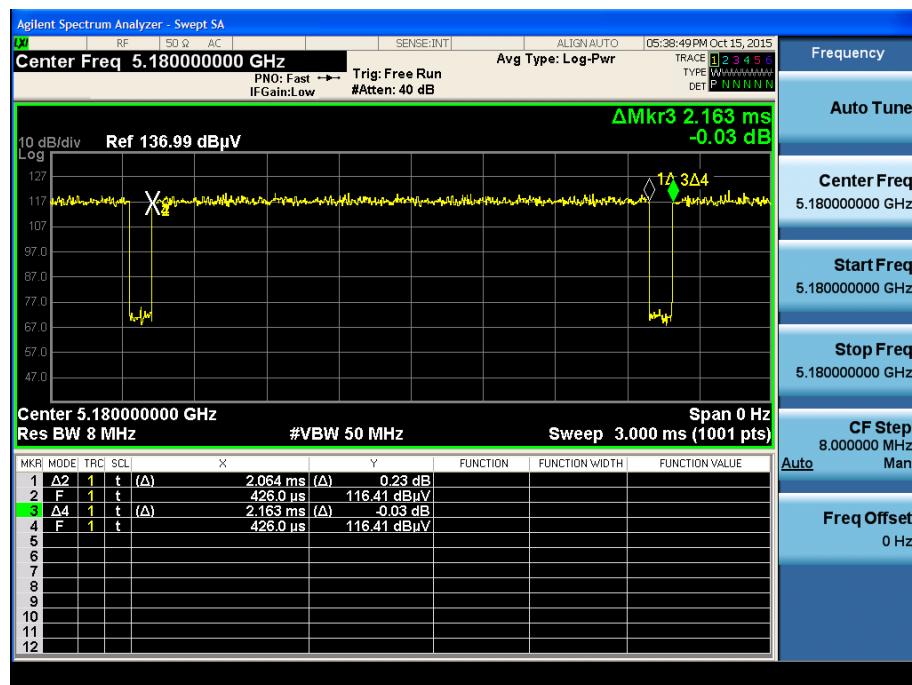


9.6 Duty Cycle

Test Data:

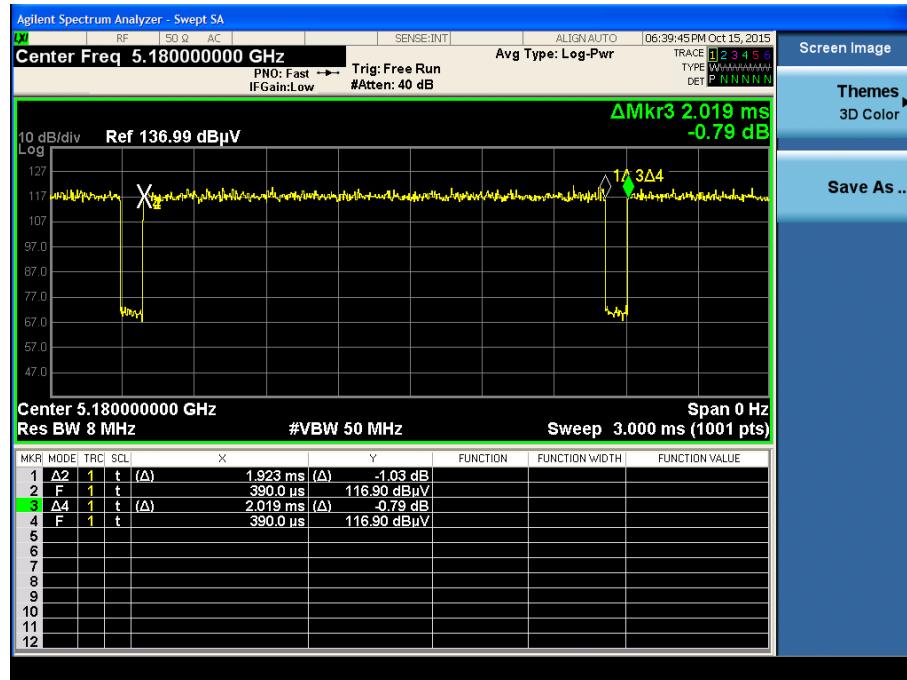
Mode	ON Time (msec)	Period (msec)	Duty Cycle (linear)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)
802.11a	2.046	2.163	0.946	94.60	0.24
802.11n HT20	1.923	2.019	0.952	95.24	0.21
802.11n HT40	0.948	1.046	0.906	90.63	0.42
802.11ac VHT80	0.464	0.561	0.827	82.71	0.82

802.11a

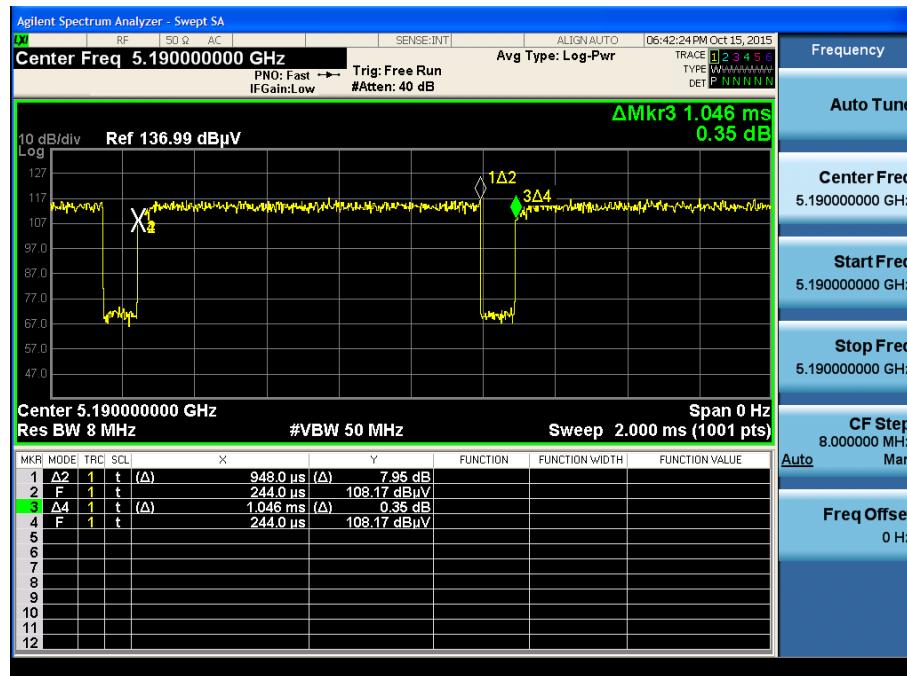




802.11n HT20

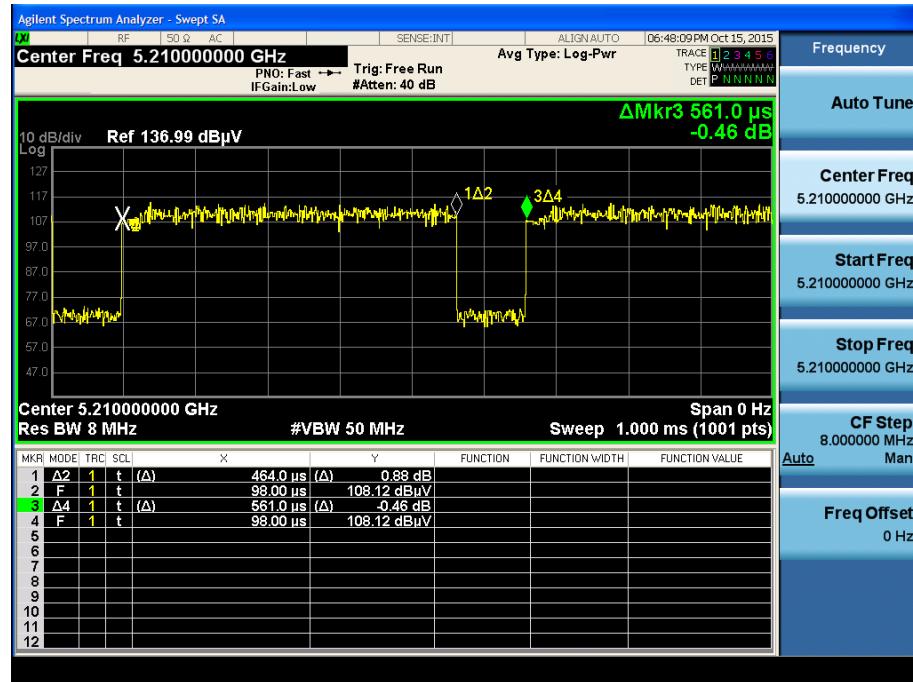


802.11n HT40





802.11ac VHT80



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10 Test Equipment List

List of Test Instruments

No.	Equipment	Manufacturer	Model No.	Last Cal.	Cal. Interval
SB2603	EMI Test Receiver	Rohde & Schwarz	ESCS30	Dec.19, 2014	1 Year
SB3321	AMN	Rohde & Schwarz	ESH2-Z5	Jan.18, 2015	1 Year
SB2604	AMN	Rohde & Schwarz	ESH3-Z5	Nov.18, 2015	1 Year
----	Radiated Emissions Cable set	HUBER+SUHN ER	---	Jan.19, 2015	1 Year
SB8501/09	EMI Test Receiver	Rohde & Schwarz	ESU40	Mar.19, 2015	1 Year
SB8501/04	Bilog Antenna	Schwarzbeck	VULB9163	Mar.19, 2015	1 Year
SB3435	Horn Antenna	Rohde & Schwarz	HF906	Jan.19, 2015	1 Year
SB5392/02	Horn Antenna	Amplifier Research	AT4560	May.15,2015	1 Year
SB3450/01	3m Semi-anechoic chamber	Albatross Projects	9X6X6	Oct.09, 2014	2 Years
SB3345	Loop Antenna	Schwarzbeck	FMZB1516	Jan.20, 2015	2 Years
SB3437	Power meter	Rohde & Schwarz	NRVD	Jul.03, 2015	1 Year
SB3437/01	Power sensor	Rohde & Schwarz	URV5-Z2	Jul.03, 2015	1 Year
SB9721/02	Signal Analyzer	Agilent	N9020A	Jan.05, 2015	1 Year
----	Radiated Emissions Cable set	HUBER+SUHN ER	---	Jan.19, 2015	1 Year
---	Radiated Emissions Cable set	HUBER+SUHN ER	---	Jan.19, 2015	1 Year
SB8501/17	Preamplifier	Rohde & Schwarz	SCU-18	Mar.27, 2015	1 Year
SB8501/16	Preamplifier	Rohde & Schwarz	SCU-26	Mar.27, 2015	1 Year
SB9059	Preamplifier	Rohde & Schwarz	SCU-40	May.12,2015	1 Year



11 System Measurement Uncertainty

For a 95% confidence level, the measurement expanded uncertainties for defined systems, in accordance with the recommendations of ISO 17025 were:

Items	Extended Uncertainty
Uncertainty for Conducted Emission 150kHz-30MHz	3.50dB
Uncertainty for Radiated Emission in 3m chamber 30MHz-1000MHz	4.5dB
Uncertainty for Radiated Emission in 3m chamber 1000MHz-26500MHz	4.6dB
Uncertainty for Conducted RF test	Power level test involved: 2.04dB Frequency test involved: 1.1×10^{-7}