FCC 47 CFR PART 15 SUBPART C AND ANSI C63.10:2013 TEST REPORT

For

Computer

Model : POC127 ; POC-127XXXXXXXXXXXXXXXX ; POC127XXXXXXXXXXXXXXXX
(where "X" may be any alphanumeric character , "-" or blank)

Trade Name : ADVANTECH

Issued for

Advantech Co. Ltd.

No.1, Alley 20, Lane 26, Rueiguang Road, Neihu District, Taipei 114, Taiwan, R.O.C.

Issued by

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Issued Date: July 07, 2015

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Revision History

Rev.	Issue Date	Revisions	Effect Page	Revised By
00	07/07/2015	Initial Issue	All Page 174	Michelle Chiu

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1. TEST REPORT CERTIFICATION

Applicant ： Advantech Co. Ltd.
Address ： No.1, Alley 20, Lane 26, Rueiguang Road, Neihu District, Taipei 114, Taiwan, R.O.C.
Equipment Under Test ： Computer
Model ： POC127 ; POC-127XXXXXXXXXXXXXXXX ; POC127XXXXXXXXXXXXXXXX
(where "X" may be any alphanumeric character , "-" or blank)
Trade Name ： ADVANTECH
Tested Date ： May 22 ~ July 07, 2015

APPLICABLE STANDARD	
Standard	**Test Result**
FCC Part 15 Subpart C AND ANSI C63.10:2013	PASS

WE HEREBY CERTIFY THAT: The above equipment has been tested by Compliance Certification Services Inc., and found compliance with the requirements set forth in the technical standards mentioned above. The results of testing in this report apply only to the product/system, which was tested. Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.

Approved by:

Sb. Lu
Sr. Engineer

Reviewed by:

Gundam Lin
Sr. Engineer

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2. EUT DESCRIPTION

Product Name	Computer
Model Number	POC127 ; POC-127XXXXXXXXXXXXXXXX ; POC127XXXXXXXXXXXXXXXX (where “X” may be any alphanumeric character , “-” or blank)
Identify Number	T150522L01
Received Date	May 22, 2015
Frequency Range	IEEE 802.11b/g, 802.11gn HT20 : 2412MHz ~ 2462MHz IEEE 802.11gn HT40 : 2422MHz ~ 2452MHz
Transmit Power	IEEE 802.11b : 19.12 dBm (0.0817 W) IEEE 802.11g : 23.99 dBm (0.2506 W) IEEE 802.11gn HT20 : 27.67 dBm (0.5848 W) IEEE 802.11gn HT40 : 24.29 dBm (0.2685 W)
Channel Spacing	IEEE 802.11b/g, 802.11gn HT20/HT40 : 5MHz
Channel Number	IEEE 802.11b/g, 802.11gn HT20 : 11 Channels IEEE 802.11gn HT40 : 7 Channels
Transmit Data Rate	IEEE 802.11b : up to 11 Mbps IEEE 802.11g : up to 54 Mbps IEEE 802.11gn (HT20,800ns GI) : up to 130 Mbps IEEE 802.11gn (HT20,400ns GI) : up to 144.4 Mbps IEEE 802.11gn (HT40,800ns GI) : up to 270 Mbps IEEE 802.11gn (HT40,400ns GI) : up to 300 Mbps
Type of Modulation	IEEE 802.11b : DSSS (CCK, DQPSK, DBPSK) IEEE 802.11g : OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11gn HT20/40 : OFDM (64QAM, 16QAM, QPSK, BPSK)
Antenna Type	PIFA Antenna × 2 : Antenna 1(Main) / Chain 1, Antenna Gain: -5dBi Antenna 2(Aux) / Chain 2, Antenna Gain : -5dBi
Power Rating	18Vdc, 3.5A
Test Voltage	120Vac, 60Hz
DC Power Cable Type	Non-shielded cable, 1.3m × 1 (Non-detachable), with two ferrite core
I/O Port	IEEE 1394 Port × 1, RJ-45 Port × 1, USB Port × 4, VGA Port × 1, RS232 Port × 2, Audio Port × 3, PS/2 Port × 1, Power Port × 1
Signal Cable	Shielded PS/2 cable, 0.2m × 1 (Detachable)

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Power Adapter :

No.	Manufacturer	Model No.	Power Input	Power Output
1	SINPRO	HPU101-107	100-240Vac, 47-63Hz, 1.2-0.5A	18Vdc, 5.55A max.

The difference of the series model

Model Number	Difference
POC127	1. For marketing purpose only. 2. where "X" may be any alphanumeric character , “ - " or blank
POC-127XXXXXXXXXXXXXXXX	
POC127XXXXXXXXXXXXXXXX	

Remark :

1. *The sample selected for test was engineering sample that approximated to production product and was provided by manufacturer.*
2. *For more details, please refer to the User's manual of the EUT.*
3. *The model POC127 was considered the main model for testing.*
4. *This submittal(s) (test report) is intended for FCC ID: M82-POC127 filing to comply with Section 15.207, 15.209 and 15.247 of the FCC Part 15, Subpart C Rules.*

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3. DESCRIPTION OF TEST MODES

The EUT is an 802.11n transceiver in Computer form factor.
For IEEE 802.11b/g mode (1TX / 1RX) : Ant. 1 (Main) / Chain 1 transmit/receive.
For IEEE 802.11gn HT20/HT40 mode (2TX / 2RX) :
Ant. 1 (Main) / Chain 1 & Ant. 2 (Aux) / Chain 2 transmit/receive.

Conducted Emission / Radiated Emission Test (Below 1 GHz)

1. The following test modes were scanned during the preliminary test:

No.	Pre-Test Mode
1	TX Mode

2. After the preliminary scan, the following test mode was found to produce the highest emission level.

Final Test Mode		
Emission	Radiated Emission	TX Mode
	Conducted Emission	TX Mode

Remark : *Then, the above highest emission mode of the configuration of the EUT and cable was chosen for all final test items.*

Conducted / Radiated Emission Test (Above 1 GHz)

IEEE 802.11b, 802.11g, 802.11gn HT20 mode

The EUT had been tested under operating condition.
There are three channels have been tested as following :

Channel	Frequency (MHz)
Low	2412
Middle	2437
High	2462

IEEE 802.11b mode : 1Mbps data rate (worst case) were chosen for full testing.
IEEE 802.11g mode : 6Mbps data rate (worst case) were chosen for full testing.
IEEE 802.11gn HT20 mode : 13Mbps data rate (worst case) were chosen for full testing.

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IEEE 802.11gn HT40 mode

The EUT had been tested under operating condition.

There are three channels have been tested as following :

Channel	Frequency (MHz)
Low	2422
Middle	2437
High	2452

IEEE 802.11gn HT40 mode : 27Mbps data rate (worst case) were chosen for full testing.

Remark：*The field strength of spurious emission was measured in the following position: EUT stand-up position(Z axis), lie-down position(X, Y axis). The worst emission was found in stand-up position(Z axis) and the worst case was recorded.*

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4. TEST METHODOLOGY

The tests documented in this report were performed in accordance with ANSI C63.10: 2013 and FCC CFR 47, 15.207, 15.209 and 15.247.

5. FACILITIES AND ACCREDITATION

5.1 FACILITIES

All measurement facilities used to collect the measurement data are located at

No.989-1, Wenshan Rd., Shangshan Village,
Qionglin Township, Hsinchu County 30741, Taiwan (R.O.C.)

The sites are constructed in conformance with the requirements of ANSI C63.10:2013 and CISPR 22. All receiving equipment conforms to CISPR 16-1-1, CISPR 16-1-2, CISPR 16-1-3, CISPR 16-1-4, CISPR 16-1-5.

5.2 ACCREDITATIONS

Our laboratories are accredited and approved by the following approval agencies according to ISO/IEC 17025.

Taiwan	TAF

The measuring facility of laboratories has been authorized or registered by the following approval agencies.

Canada	INDUSTRY CANADA
Japan	VCCI
Taiwan	BSMI
USA	FCC MRA

Copies of granted accreditation certificates are available for downloading from our web site, http:///www.ccsrf.com

Remark: *FCC Designation Number TW1027.*

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5.3 MEASUREMENT UNCERTAINTY

The following table is for the measurement uncertainty, which is calculated as per the document CISPR 16-4-2.

PARAMETER	UNCERTAINTY
Semi Anechoic Chamber (966 Chamber_C) / Radiated Emission, 30 to 1000 MHz	+/- 3.97
Semi Anechoic Chamber (966 Chamber_C) / Radiated Emission, 1 to 18GHz	+/- 3.58
Semi Anechoic Chamber (966 Chamber_C) / Radiated Emission, 18 to 26 GHz	+/- 3.59
Semi Anechoic Chamber (966 Chamber_C) / Radiated Emission, 26 to 40 GHz	+/- 3.81
Conducted Emission (Mains Terminals), 9kHz to 30MHz	+/- 2.48

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

Consistent with industry standard (e.g. CISPR 22, clause 11, Measurement Uncertainty) determining compliance with the limits shall be base on the results of the compliance measurement. Consequently the measure emissions being less than the maximum allowed emission result in this be a compliant test or passing test.

The acceptable measurement uncertainty value without requiring revision of the compliance statement is base on conducted and radiated emissions being less than U_{CISPR} which is 3.6dB and 5.2dB respectively. CCS values (called U_{Lab} in CISPR 16-4-2) is less than U_{CISPR} as shown in the table above. Therefore, MU need not be considered for compliance.

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6. SETUP OF EQUIPMENT UNDER TEST

SUPPORT EQUIPMENT

No.	Product	Manufacturer	Model No.	Serial No.
1	Notebook PC	HP	ProBook 4421s	CNF03242PJ

No.	Signal Cable Description
1	Non-shielded RJ-45 cable, 12m × 1
2	Non-shielded AC power cable, 2m × 1

SETUP DIAGRAM FOR TESTS

EUT & peripherals setup diagram is shown in appendix setup photos.

EUT OPERATING CONDITION

1. EUT & peripherals setup diagram is shown in appendix setup photos.
2. TX Mode:
   - ⇨ **Tx Data Rate:** 1Mbps Bandwidth 20 (IEEE 802.11b mode)
     6Mbps Bandwidth 20 (IEEE 802.11g mode)
     13Mbps Bandwidth 20 (IEEE 802.11gn HT20 mode)
     27Mbps Bandwidth 40 (IEEE 802.11gn HT40 mode)
   - ⇨ **Power control**
     IEEE 802.11b Channel Low (2412MHz) Chain 1 Power set 17
     IEEE 802.11b Channel Mid (2437MHz) Chain 1 Power set 17
     IEEE 802.11b Channel High (2462MHz) Chain 1 Power set 17
     IEEE 802.11g Channel Low (2412MHz) Chain 1 Power set 15.5
     IEEE 802.11g Channel Mid (2437MHz) Chain 1 Power set 17
     IEEE 802.11g Channel High (2462MHz) Chain 1 Power set 16
     IEEE 802.11gn HT20 Channel Low (2412MHz) Chain 1/2 Power set 14
     IEEE 802.11gn HT20 Channel Mid (2437MHz) Chain 1/2 Power set 17
     IEEE 802.11gn HT20 Channel High (2462MHz) Chain 1/2 Power set 13.5
     IEEE 802.11gn HT40 Channel Low (2422MHz) Chain 1/2 Power set 11
     IEEE 802.11gn HT40 Channel Mid (2437MHz) Chain 1/2 Power set 14.5
     IEEE 802.11gn HT40 Channel High (2452MHz) Chain 1/2 Power set 10
3. All of the functions are under run.
4. Start test.

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7. FCC PART 15.247 REQUIREMENTS

7.1 6dB BANDWIDTH

LIMITS

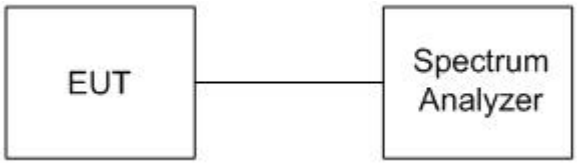
§ 15.247(a) (2) For direct sequence systems, the minimum 6dB bandwidth shall be at least 500kHz.

TEST EQUIPMENT

Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
EXA Signal Analyzer	Agilent	N9010A	MY52220817	03/19/2016

Remark: *Each piece of equipment is scheduled for calibration once a year.*

TEST SETUP



TEST PROCEDURE

1. The transmitter output was connected to a spectrum analyzer.
2. Set RBW = 100 kHz.
3. Set the video bandwidth (VBW) ≥ 3 x RBW.
4. Detector = Peak.
5. Trace mode = max hold.
6. Sweep = auto couple.
7. Allow the trace to stabilize.
8. 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.

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TEST RESULTS

IEEE 802.11b Mode

Channel	Channel Frequency (MHz)	6dB Bandwidth (MHz)	Minimum Limit (kHz)	Pass / Fail
		Chain 1		
Low	2412	10.07	500	PASS
Middle	2437	10.11	500	PASS
High	2462	10.15	500	PASS

IEEE 802.11g Mode

Channel	Channel Frequency (MHz)	6dB Bandwidth (MHz)	Minimum Limit (kHz)	Pass / Fail
		Chain 1		
Low	2412	10.53	500	PASS
Middle	2437	14.43	500	PASS
High	2462	10.32	500	PASS

IEEE 802.11gn HT20 Mode (Two TX)

Channel	Channel Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (kHz)	Pass / Fail
		Chain 1	Chain 2		
Low	2412	17.52	13.85	500	PASS
Middle	2437	17.53	13.82	500	PASS
High	2462	17.53	15.46	500	PASS

IEEE 802.11gn HT40 Mode (Two TX)

Channel	Channel Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (kHz)	Pass / Fail
		Chain 1	Chain 2		
Low	2422	34.41	35.31	500	PASS
Middle	2437	35.08	35.05	500	PASS
High	2452	35.27	35.02	500	PASS

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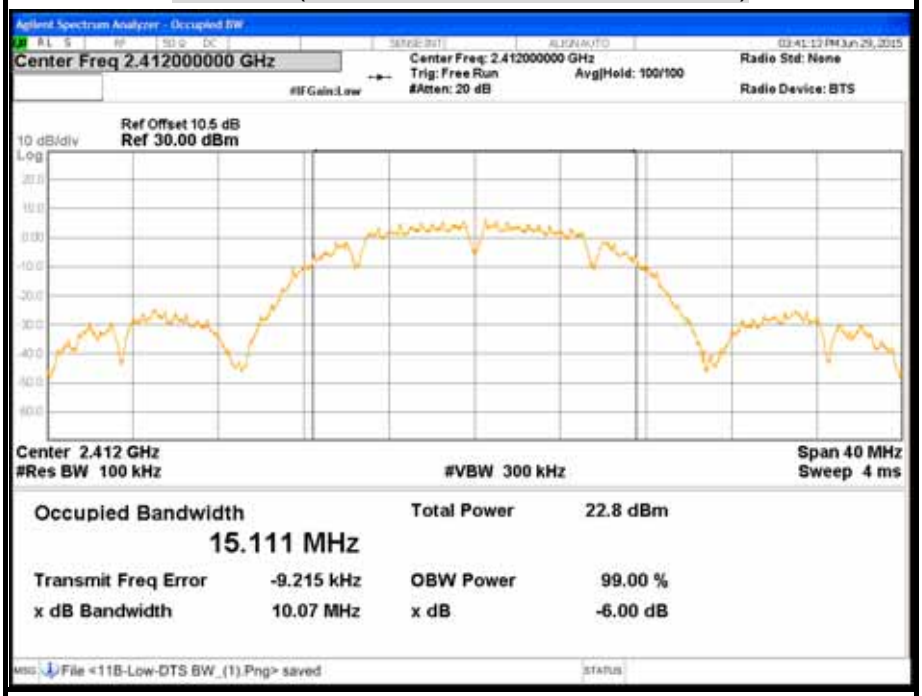
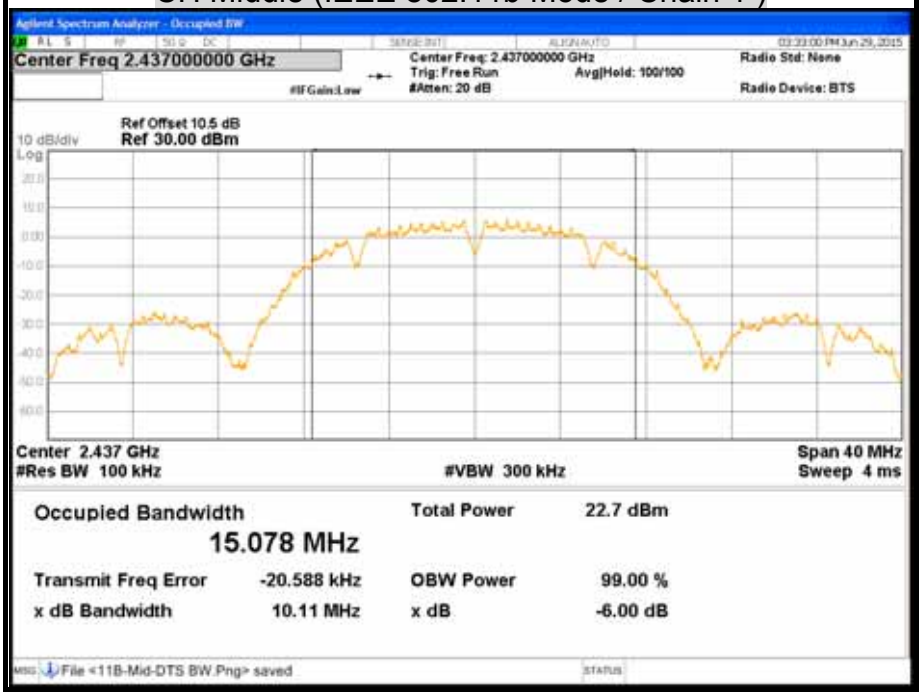
6dB BANDWIDTH

CH Low (IEEE 802.11b Mode / Chain 1)



CH Middle (IEEE 802.11b Mode / Chain 1)



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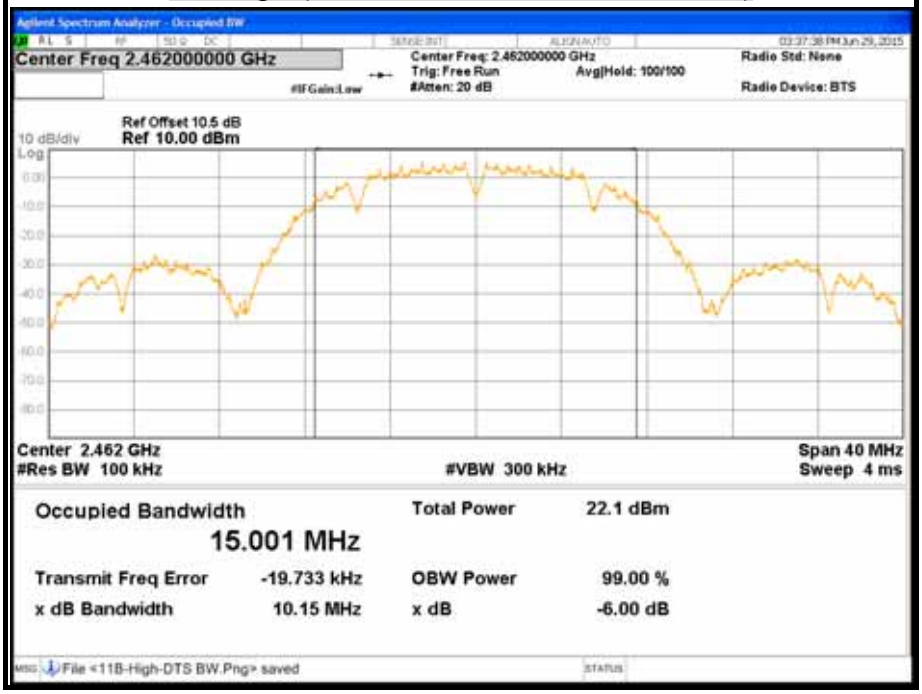
CH High (IEEE 802.11b Mode / Chain 1)



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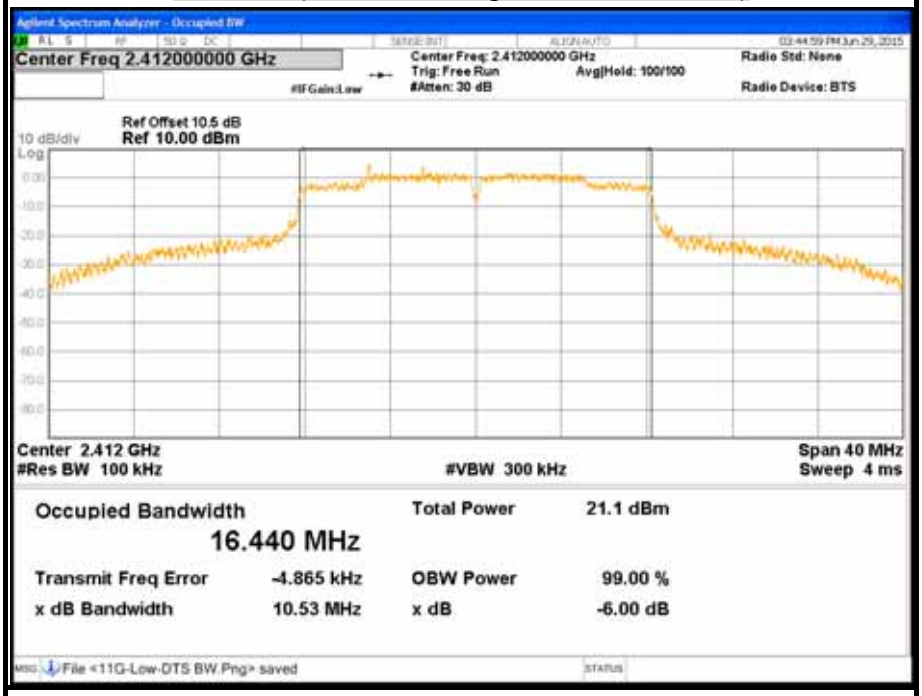
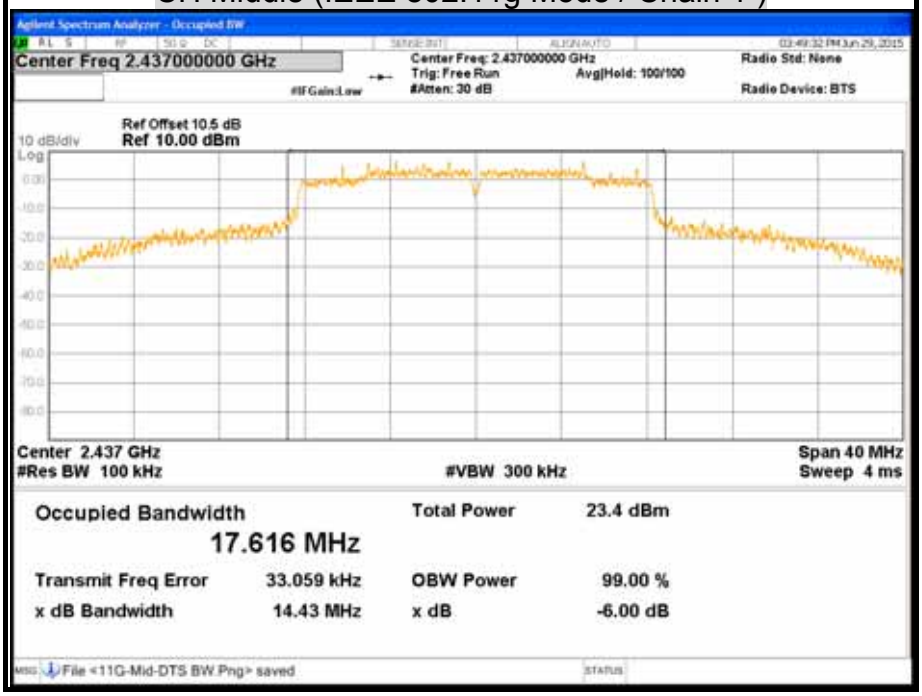
CH Low (IEEE 802.11g Mode / Chain 1)



CH Middle (IEEE 802.11g Mode / Chain 1)



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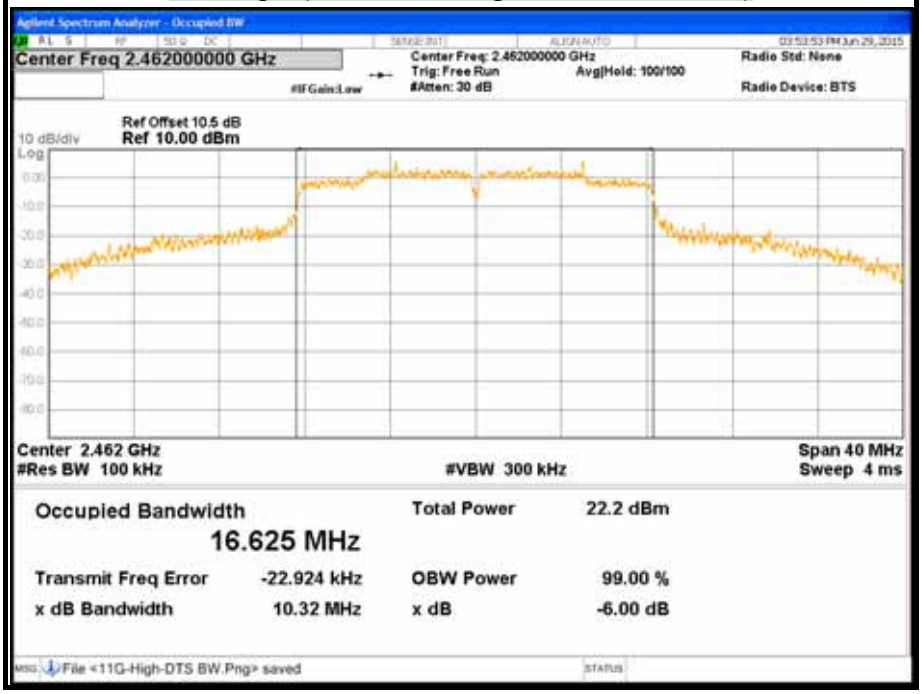
CH High (IEEE 802.11g Mode / Chain 1)



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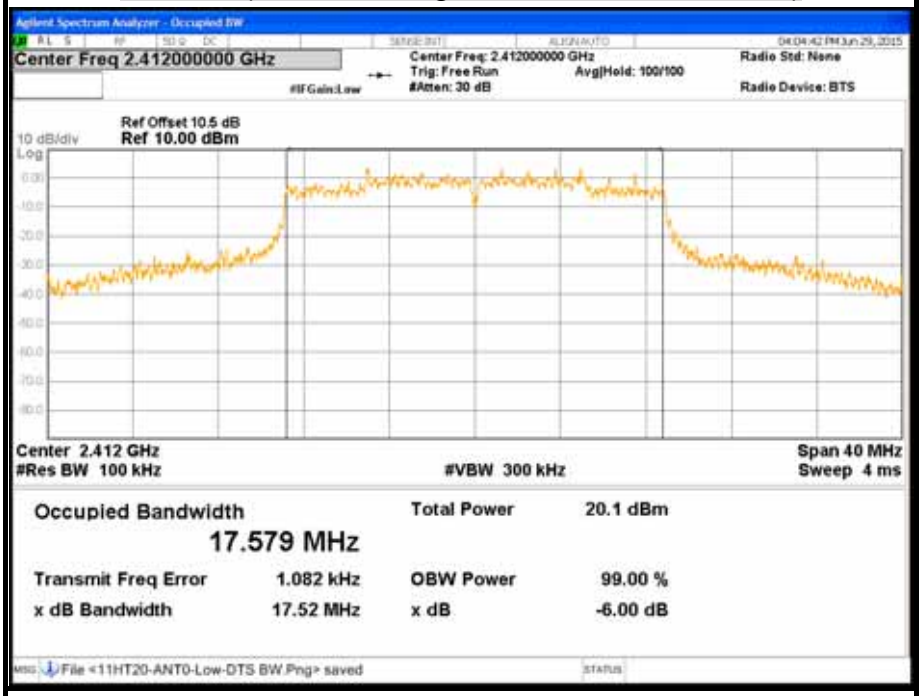
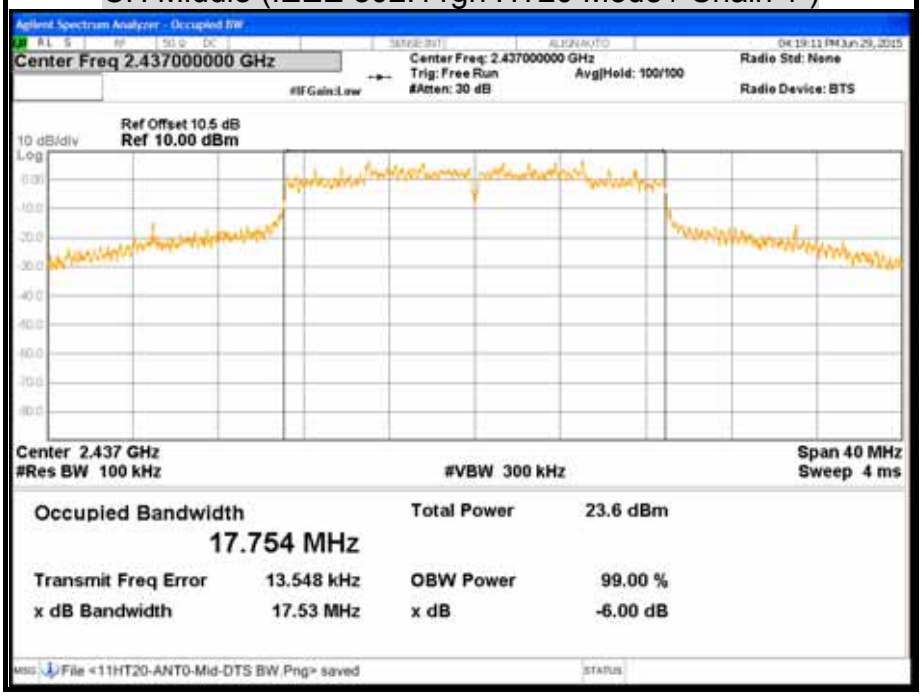
CH Low (IEEE 802.11gn HT20 Mode / Chain 1)



CH Middle (IEEE 802.11gn HT20 Mode / Chain 1)



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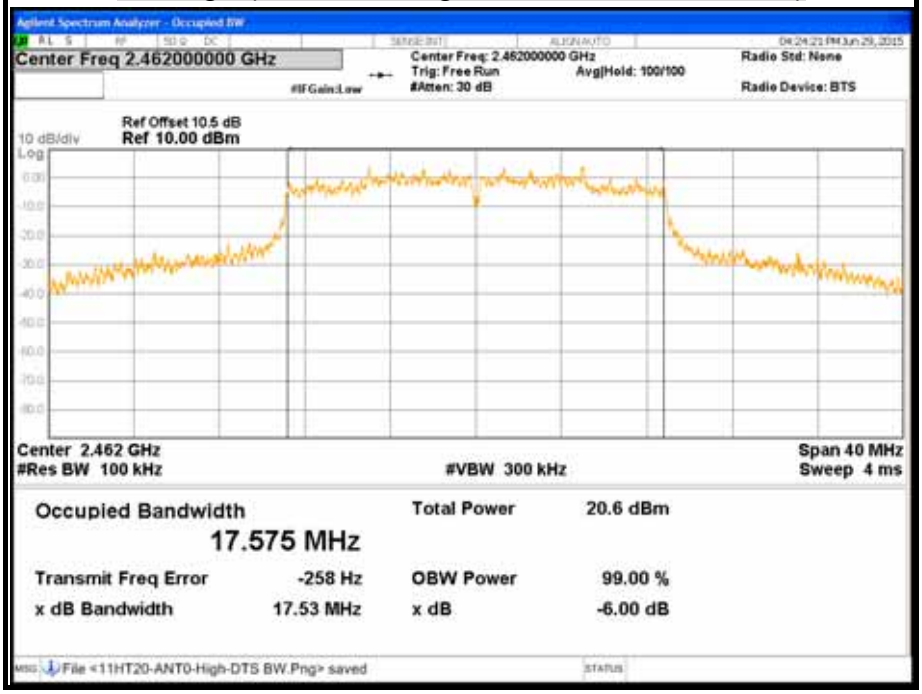
CH High (IEEE 802.11gn HT20 Mode / Chain 1)



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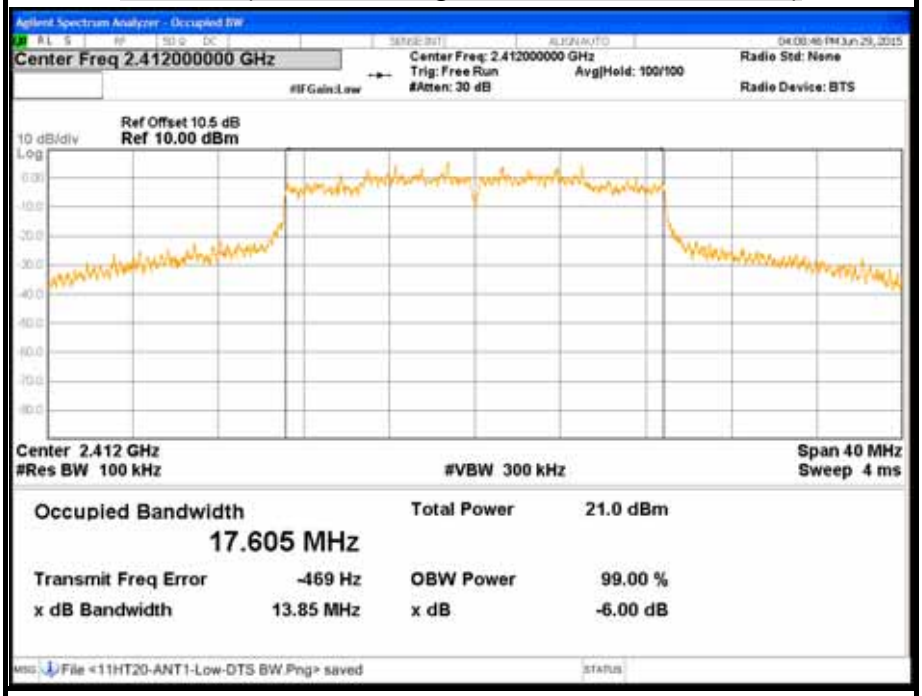
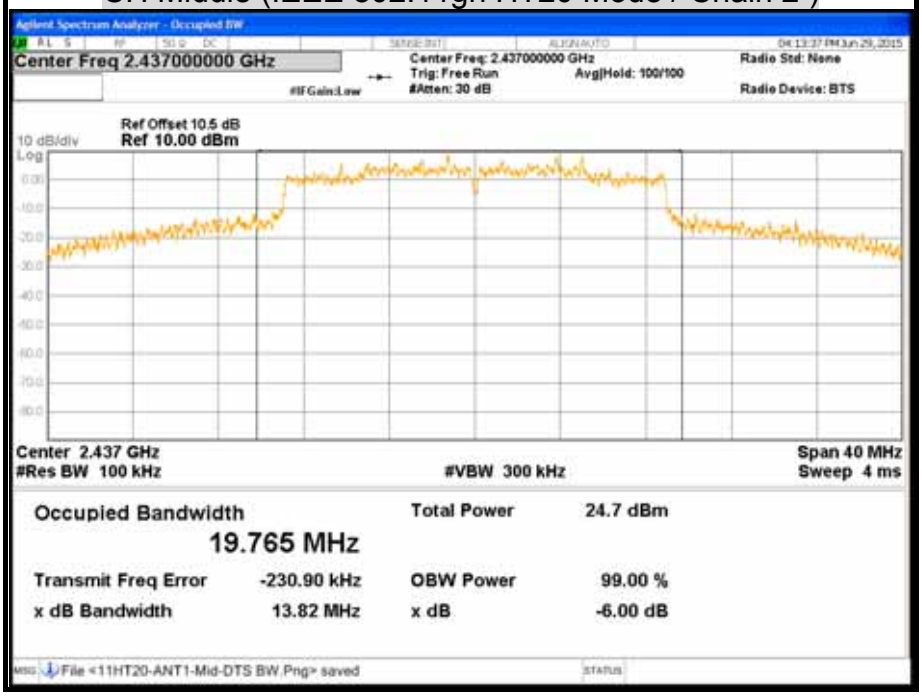
CH Low (IEEE 802.11gn HT20 Mode / Chain 2)



CH Middle (IEEE 802.11gn HT20 Mode / Chain 2)



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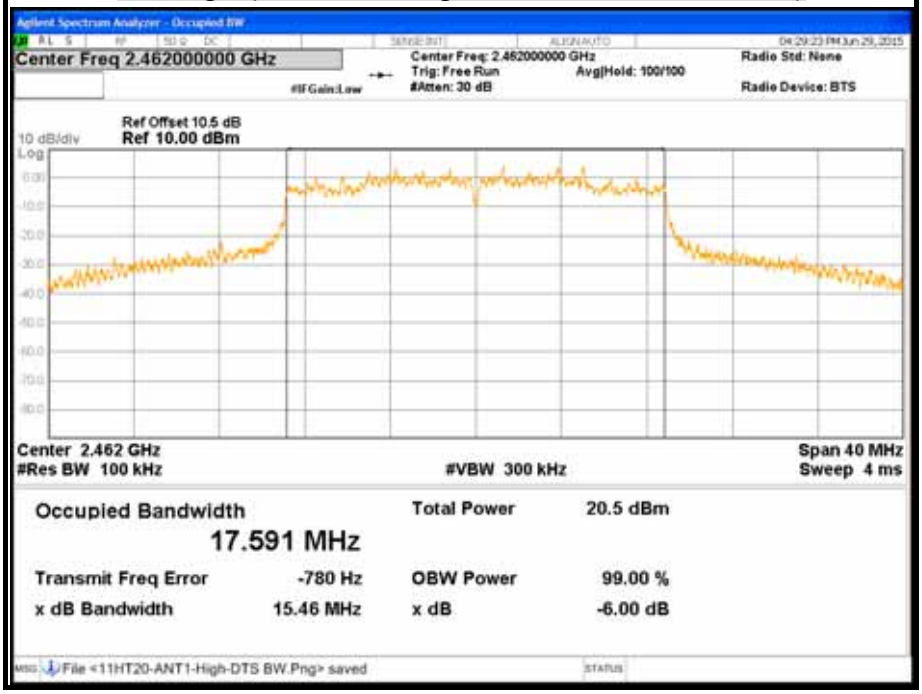
CH High (IEEE 802.11gn HT20 Mode / Chain 2)



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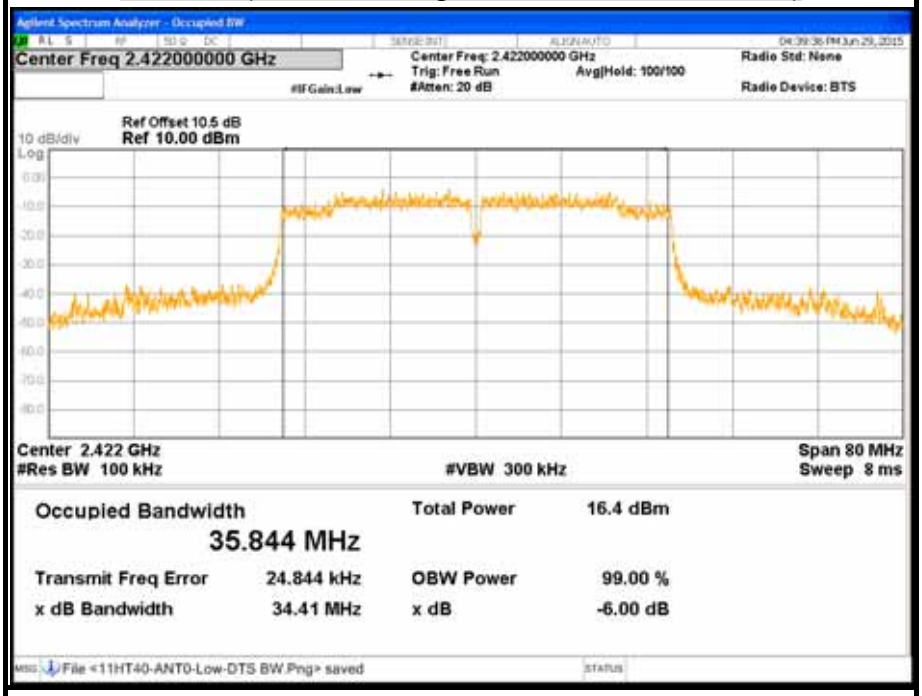
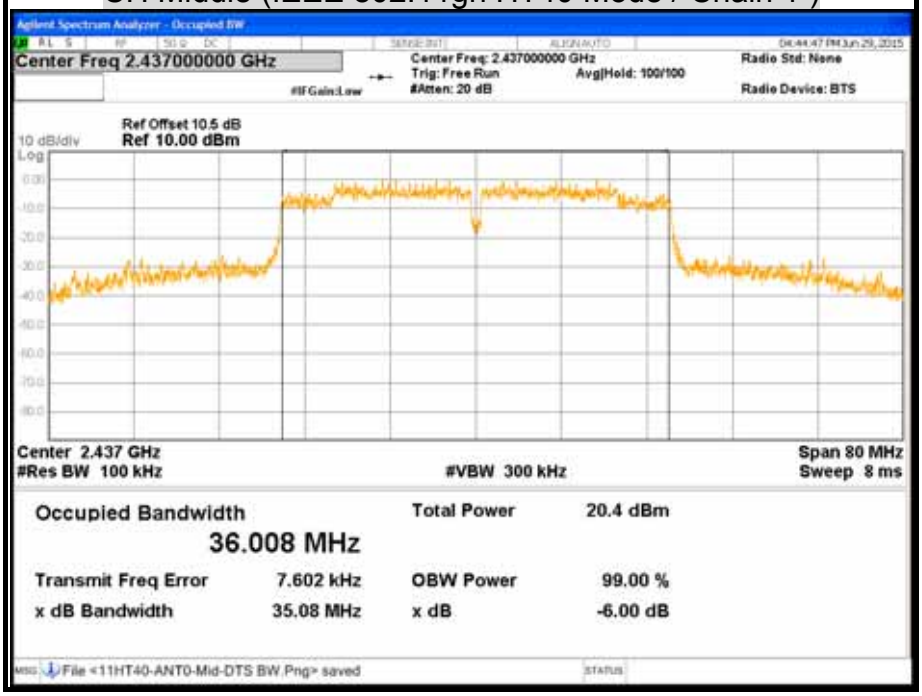
CH Low (IEEE 802.11gn HT40 Mode / Chain 1)



CH Middle (IEEE 802.11gn HT40 Mode / Chain 1)



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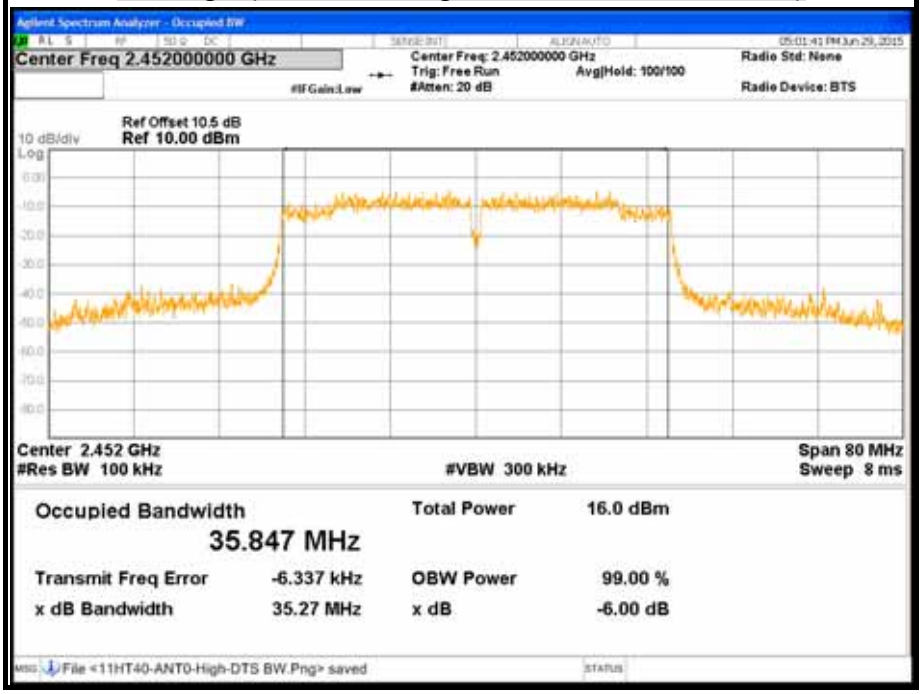
CH High (IEEE 802.11gn HT40 Mode / Chain 1)



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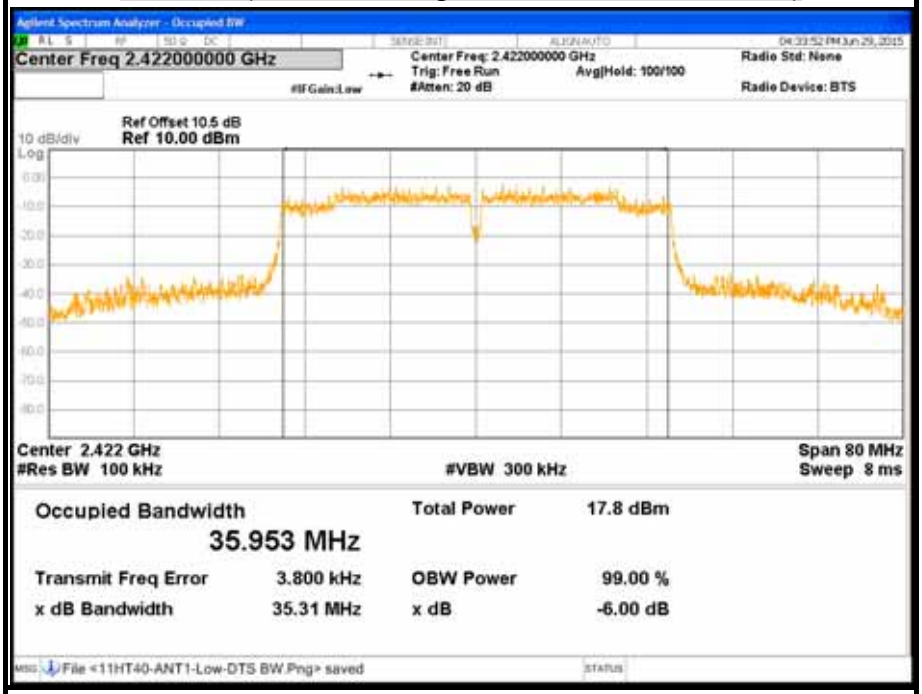
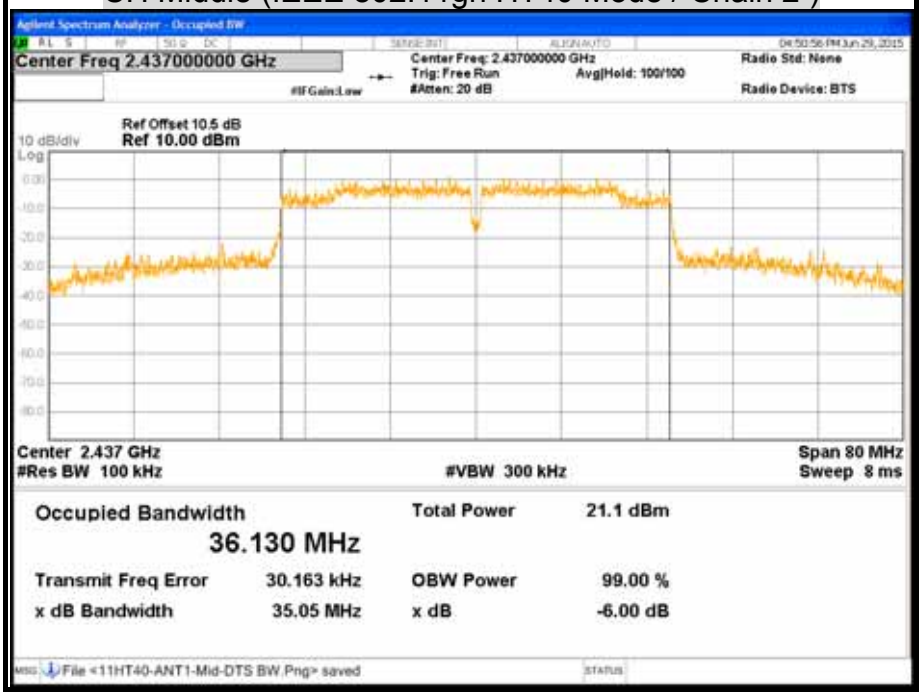
CH Low (IEEE 802.11gn HT40 Mode / Chain 2)



CH Middle (IEEE 802.11gn HT40 Mode / Chain 2)



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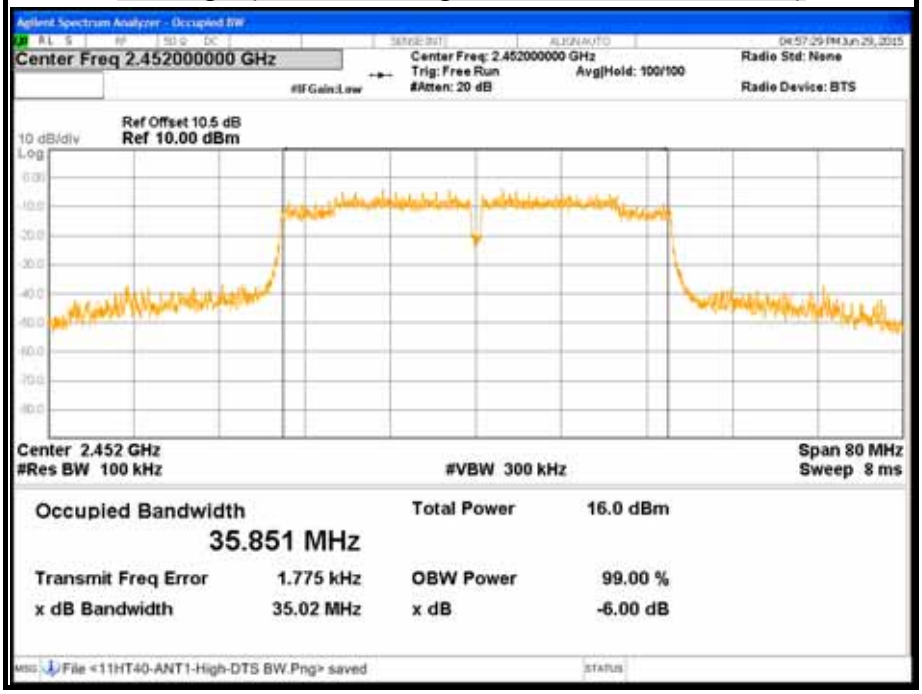
CH High (IEEE 802.11gn HT40 Mode / Chain 2)



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7.2 MAXIMUM PEAK OUTPUT POWER

LIMITS

§ 15.247(b) The maximum peak output power of the intentional radiator shall not exceed the following :

§ 15.247(b) (3) For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands : 1 watt.

§ 15.247(b) (4) Except as shown in paragraphs (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used the peak output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1) or (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

§ KDB 662911 : For power measurements on IEEE 802.11 devices

Array Gain = 0 dB (i.e., no array gain) for $N_{ANT} \leq 4$;

Array Gain = 0 dB (i.e., no array gain) for channel widths ≥ 40 MHz for any N_{ANT} ;

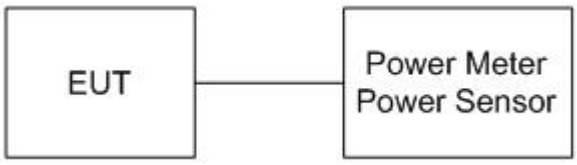
Array Gain = 5 log(N_{ANT}/N_{SS}) dB or 3 dB, whichever is less for 20-MHz channel widths with $N_{ANT} \geq 5$.

TEST EQUIPMENT

Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
Power Meter	Anritsu	ML2495A	1149001	12/11/2015
Power Sensor	Anritsu	MA2411B	1126148	12/11/2015

Remark: *Each piece of equipment is scheduled for calibration once a year.*

TEST SETUP



TEST PROCEDURE

The transmitter output is connected to the power meter. The power meter is set to the peak power detection.

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TEST RESULTS

IEEE 802.11b Mode

Channel	Channel Frequency (MHz)	Peak Power Chain 1		Peak Power Limit		Pass / Fail
		(dBm)	(W)	(dBm)	(W)	
Low	2412	18.94	0.0783	30	1	PASS
Middle	2437	19.12	0.0817	30	1	PASS
High	2462	18.63	0.0729	30	1	PASS

Remark:

1. *At finial test to get the worst-case emission at 1Mbps.*
2. *The cable assembly insertion loss of 10.5 dB (including 10 dB pad and 0.5 dB cable) was Entered as an offset in the power meter to allow for direct reading of power.*

IEEE 802.11g Mode

Channel	Channel Frequency (MHz)	Peak Power Chain 1		Peak Power Limit		Pass / Fail
		(dBm)	(W)	(dBm)	(W)	
Low	2412	21.58	0.1439	30	1	PASS
Middle	2437	23.99	0.2506	30	1	PASS
High	2462	23.09	0.2037	30	1	PASS

Remark:

1. *At finial test to get the worst-case emission at 6Mbps.*
2. *The cable assembly insertion loss of 10.5 dB (including 10 dB pad and 0.5 dB cable) was Entered as an offset in the power meter to allow for direct reading of power.*

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IEEE 802.11gn HT20 Mode (Two TX)

Channel	Channel Frequency (MHz)	Peak Power (dBm)		Peak Power Total		Peak Power Limit		Pass / Fail
		Chain 1	Chain 2	(dBm)	(W)	(dBm)	(W)	
Low	2412	20.59	21.42	24.04	0.2535	30	1	PASS
Middle	2437	24.13	25.14	27.67	0.5848	30	1	PASS
High	2462	20.84	21.15	24.01	0.2518	30	1	PASS

Remark:

1. *At finial test to get the worst-case emission at 13Mbps.*
2. *The cable assembly insertion loss of 10.5 dB (including 10 dB pad and 0.5 dB cable) was Entered as an offset in the power meter to allow for direct reading of power.*
3. *Array gain = 0 dB for $N_{ANT} \leq 4$, power limit do not reduce.*
4. *Total peak power = Chain 1 + Chain 2.*

IEEE 802.11gn HT40 Mode (Two TX)

Channel	Channel Frequency (MHz)	Peak Power (dBm)		Peak Power Total		Peak Power Limit		Pass / Fail
		Chain 1	Chain 2	(dBm)	(W)	(dBm)	(W)	
Low	2422	16.93	17.94	20.47	0.1114	30	1	PASS
Middle	2437	20.66	21.83	24.29	0.2685	30	1	PASS
High	2452	16.71	16.57	19.65	0.0923	30	1	PASS

Remark:

1. *At finial test to get the worst-case emission at 27Mbps.*
2. *The cable assembly insertion loss of 10.5 dB (including 10 dB pad and 0.5 dB cable) was Entered as an offset in the power meter to allow for direct reading of power.*
3. *Array gain = 0 dB for $N_{ANT} \leq 4$, power limit do not reduce.*
4. *Total peak power = Chain 1 + Chain 2.*

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7.3 AVERAGE POWER

LIMITS

None; for reporting purposes only.

TEST EQUIPMENT

Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
Power Meter	ANRITSU	ML2495A	1149001	12/11/2015
Power Sensor	ANRITSU	MA2411B	1126148	12/11/2015

Remark: *Each piece of equipment is scheduled for calibration once a year.*

TEST SETUP

TEST PROCEDURE

The transmitter output is connected to the power meter. The power meter is set to the average power detection.

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TEST RESULTS

IEEE 802.11b Mode

Channel	Channel Frequency (MHz)	Average Power (dBm)
		Chain 1
Low	2412	16.83
Middle	2437	16.84
High	2462	16.52

Remark:
1. At finial test to get the worst-case emission at 1Mbps.
2. The cable assembly insertion loss of 10.5 dB (including 10 dB pad and 0.5 dB cable) was Entered as an offset in the power meter to allow for direct reading of power.

IEEE 802.11g Mode

Channel	Channel Frequency (MHz)	Average Power (dBm)
		Chain 1
Low	2412	15.01
Middle	2437	17.48
High	2462	16.13

Remark:
1. At finial test to get the worst-case emission at 6Mbps.
2. The cable assembly insertion loss of 10.5 dB (including 10 dB pad and 0.5 dB cable) was Entered as an offset in the power meter to allow for direct reading of power.

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IEEE 802.11gn HT20 Mode (Two TX)

Channel	Channel Frequency (MHz)	Average Power (dBm)	
		Chain 1	Chain 2
Low	2412	13.49	14.21
Middle	2437	16.92	17.89
High	2462	13.93	13.96

Remark:

1. *At finial test to get the worst-case emission at 13Mbps.*
2. *The cable assembly insertion loss of 10.5 dB (including 10 dB pad and 0.5 dB cable) was Entered as an offset in the power meter to allow for direct reading of power.*

IEEE 802.11gn HT40 Mode (Two TX)

Channel	Channel Frequency (MHz)	Average Power (dBm)	
		Chain 1	Chain 2
Low	2422	10.07	10.56
Middle	2437	13.53	14.26
High	2452	8.84	9.14

Remark:

1. *At finial test to get the worst-case emission at 27Mbps.*
2. *The cable assembly insertion loss of 10.5 dB (including 10 dB pad and 0.5 dB cable) was Entered as an offset in the power meter to allow for direct reading of power.*

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7.4 POWER SPECTRAL DENSITY

LIMITS

§ 15.247(e) For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

TEST EQUIPMENT

Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
EXA Signal Analyzer	Agilent	N9010A	MY52220817	03/19/2016

Remark: *Each piece of equipment is scheduled for calibration once a year.*

TEST SETUP

TEST PROCEDURE

1. The transmitter output was connected to the spectrum analyzer.
2. Set analyzer center frequency to DTS channel center frequency.
3. Set the span to 1.5 times the DTS channel bandwidth.
4. Set the RBW to: 3 kHz ≤ RBW ≤ 100 kHz.
5. Set the VBW ≥ 3 x RBW.
6. Detector = peak.
7. Sweep time = auto couple.
8. Trace mode = max hold.
9. Allow trace to fully stabilize.
10. Use the peak marker function to determine the maximum amplitude level within the RBW.
11. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

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TEST RESULTS

IEEE 802.11b Mode

Channel	Channel Frequency (MHz)	Final RF Power Level in 3KHz BW (dBm)	Minimum Limit (dBm)	Pass / Fail
		Chain 1		
Low	2412	-2.52	8	PASS
Middle	2437	-3.81	8	PASS
High	2462	-2.97	8	PASS

Remark:

1. *At finial test to get the worst-case emission at 1Mbps.*
2. *The cable assembly insertion loss of 10.5 dB (including 10 dB pad and 10.5 dB cable) was Entered as an offset in the spectrum analyzer to allow for direct reading of power.*

IEEE 802.11g Mode

Channel	Channel Frequency (MHz)	Final RF Power Level in 3KHz BW (dBm)	Minimum Limit (dBm)	Pass / Fail
		Chain 1		
Low	2412	-5.02	8	PASS
Middle	2437	-2.97	8	PASS
High	2462	-4.31	8	PASS

Remark:

1. *At finial test to get the worst-case emission at 6Mbps.*
2. *The cable assembly insertion loss of 10.5 dB (including 10 dB pad and 0.5 dB cable) was Entered as an offset in the spectrum analyzer to allow for direct reading of power.*

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IEEE 802.11gn HT20 Mode (Two TX)

Channel	Channel Frequency (MHz)	Final RF Power Level in 3KHz BW (dBm)		PSD Total (dBm)	Minimum Limit (dBm)	Pass / Fail
		Chain 1	Chain 2			
Low	2412	-6.66	-5.04	-2.77	8	PASS
Middle	2437	-2.09	-1.29	1.34	8	PASS
High	2462	-5.38	-5.20	-2.28	8	PASS

Remark:

1. *At finial test to get the worst-case emission at 13Mbps.*
2. *The cable assembly insertion loss of 10.5dB (including 10 dB pad and 0.5 dB cable) was Entered as an offset in the spectrum analyzer to allow for direct reading of power.*
3. *The Directional gain = -1.99dBi which is less than 6dBi, the limit should be 8dBm.*
4. *Total power spectral density = Chain 1 + Chain 2*

.

IEEE 802.11gn HT40 Mode (Two TX)

Channel	Channel Frequency (MHz)	Final RF Power Level in 3KHz BW (dBm)		PSD Total (dBm)	Minimum Limit (dBm)	Pass / Fail
		Chain 1	Chain 2			
Low	2422	-12.69	-11.69	-9.15	8	PASS
Middle	2437	-8.59	-7.29	-4.88	8	PASS
High	2452	-13.11	-13.47	-10.28	8	PASS

Remark:

1. *At finial test to get the worst-case emission at 27Mbps.*
2. *The cable assembly insertion loss of 10.5dB (including 10 dB pad and 0.5 dB cable) was Entered as an offset in the spectrum analyzer to allow for direct reading of power.*
3. *The Directional gain = -1.99dBi which is less than 6dBi, the limit should be 8dBm.*
4. *Total power spectral density = Chain 1 + Chain 2*

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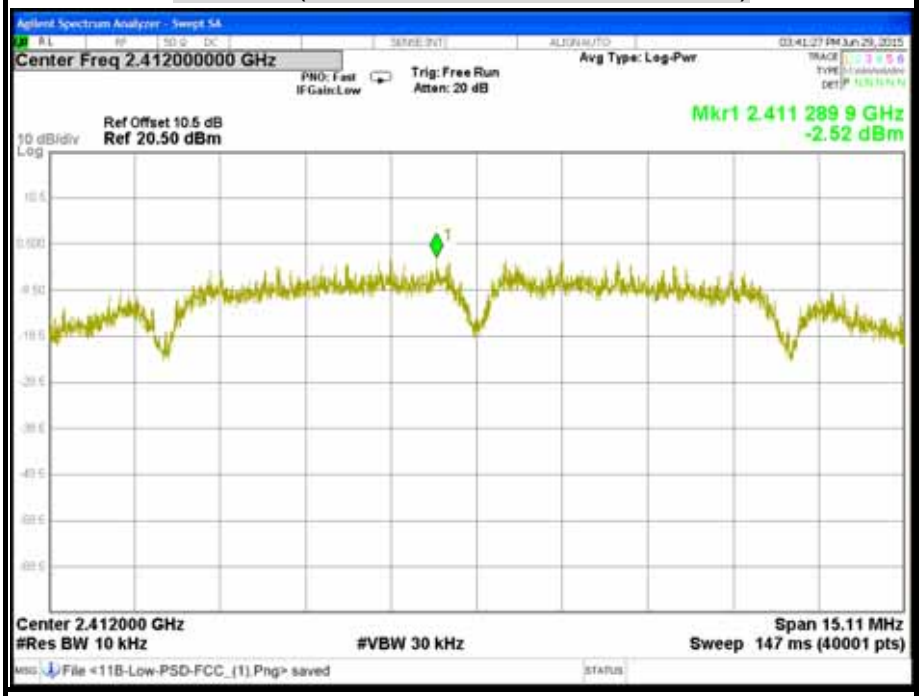
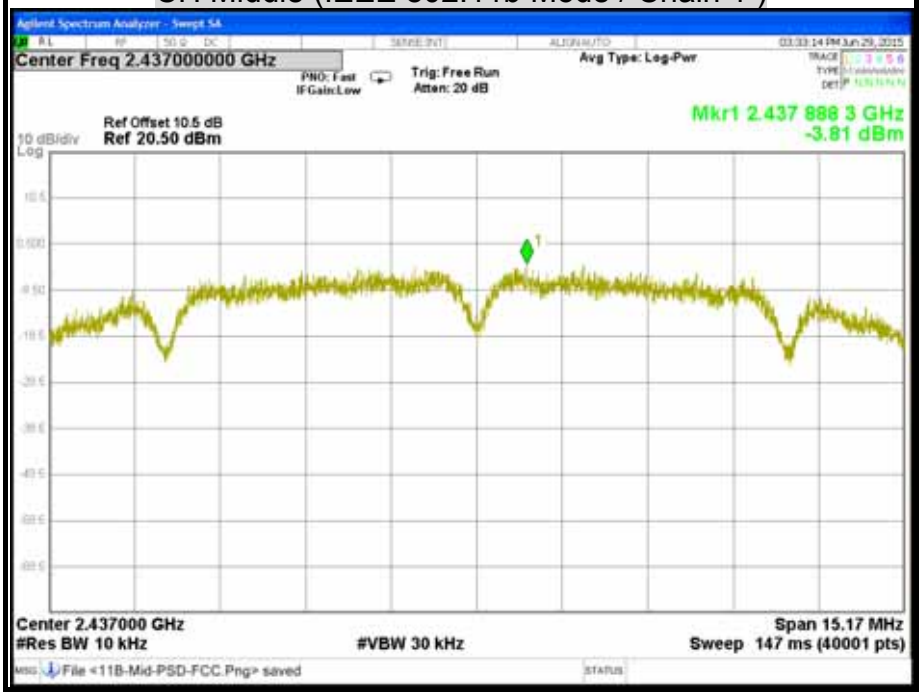
POWER SPECTRAL DENSITY

CH Low (IEEE 802.11b Mode / Chain 1)



CH Middle (IEEE 802.11b Mode / Chain 1)



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CH High (IEEE 802.11b Mode / Chain 1)

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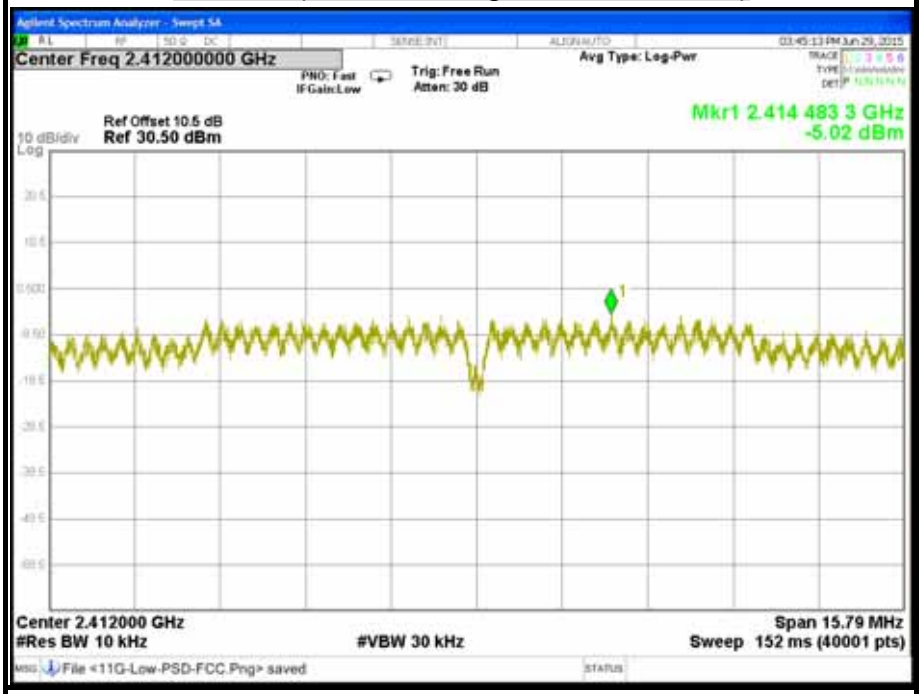
CH Low (IEEE 802.11g Mode / Chain 1)



CH Middle (IEEE 802.11g Mode / Chain 1)

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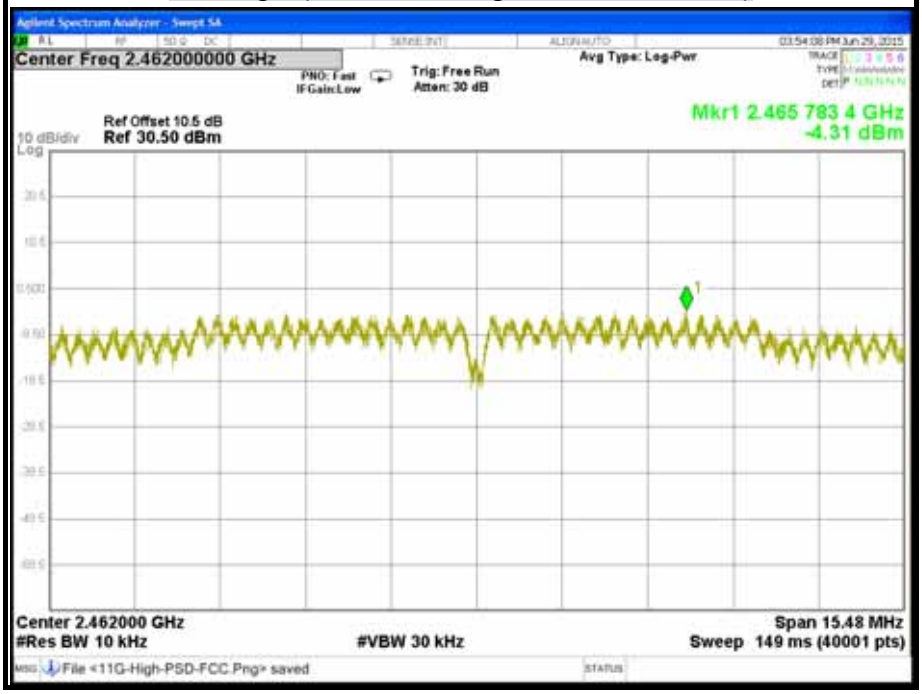
CH High (IEEE 802.11g Mode / Chain 1)



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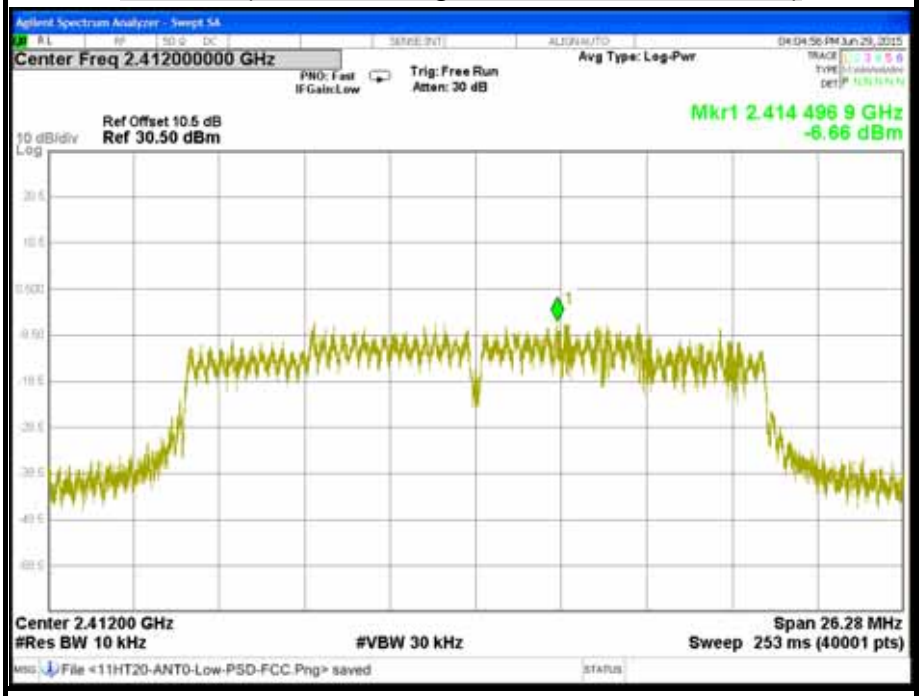
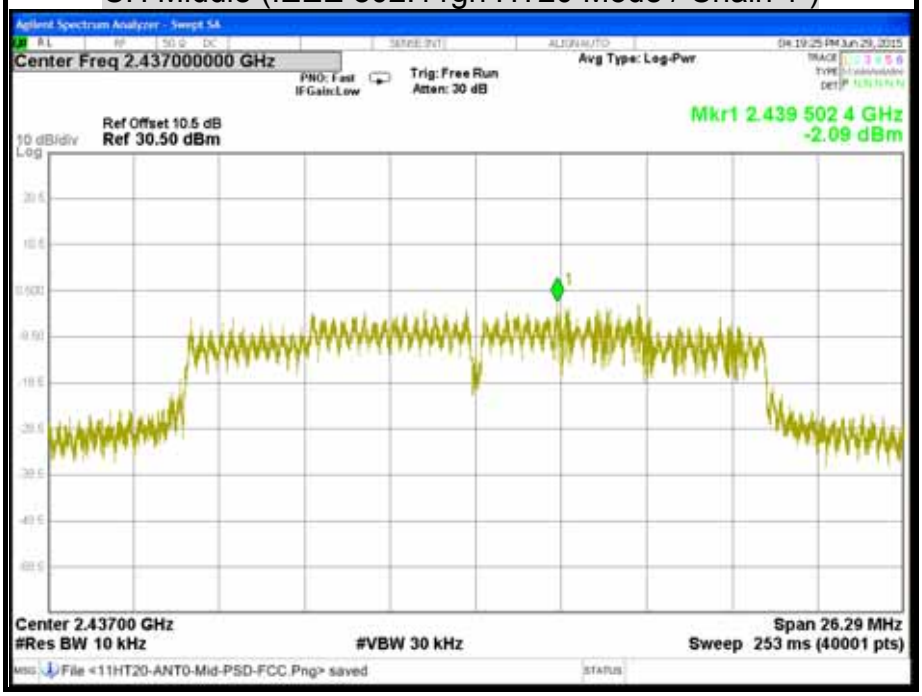
CH Low (IEEE 802.11gn HT20 Mode / Chain 1)



CH Middle (IEEE 802.11gn HT20 Mode / Chain 1)



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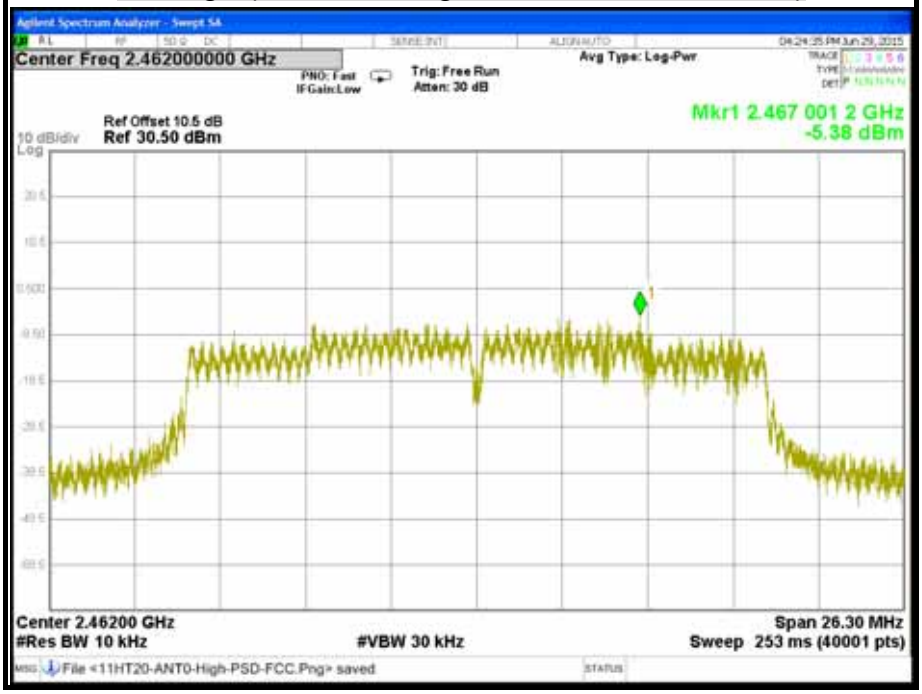
CH High (IEEE 802.11gn HT20 Mode / Chain 1)



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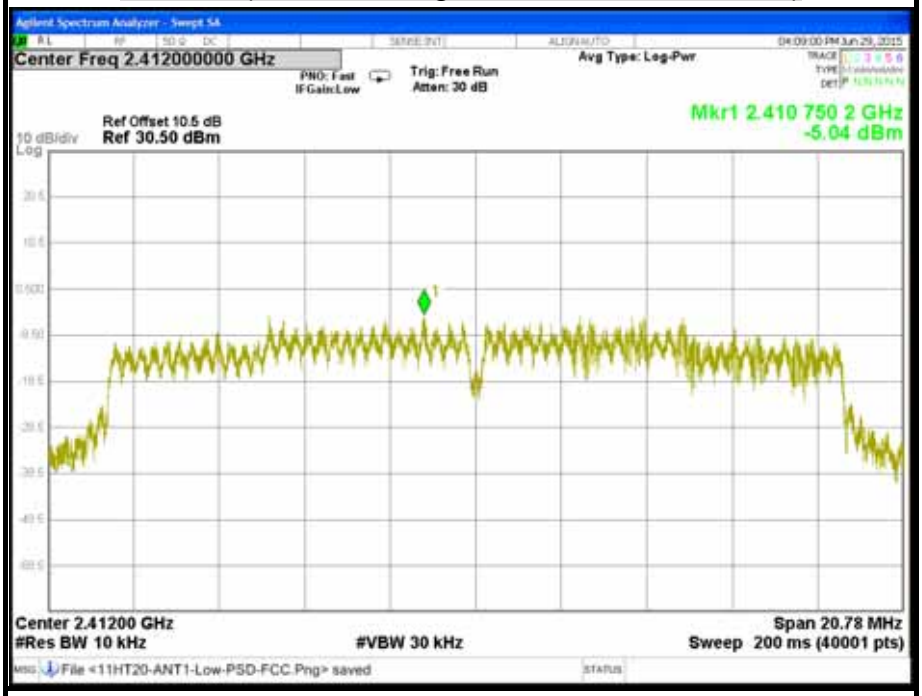
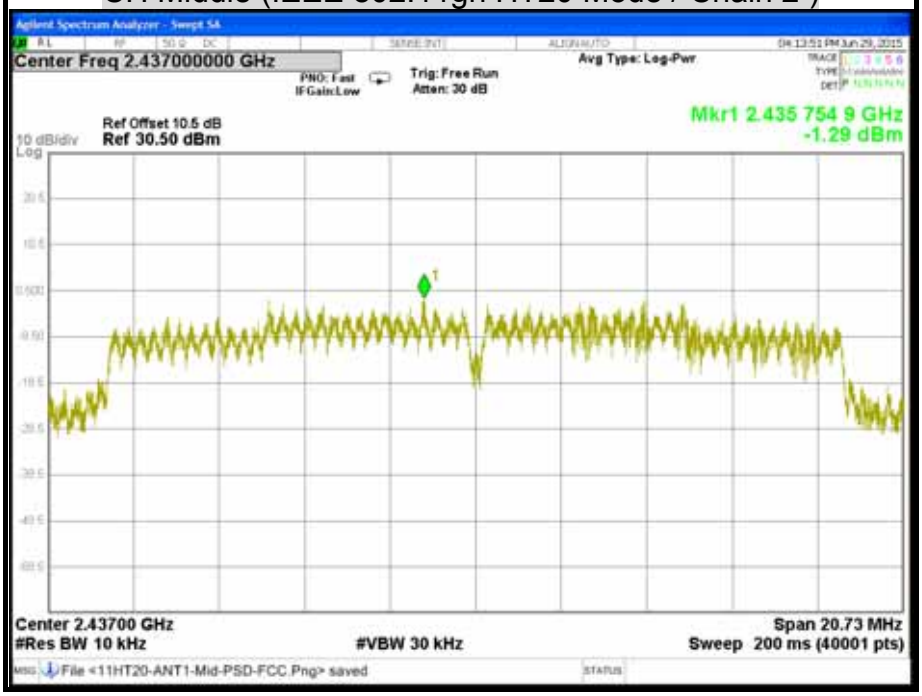
CH Low (IEEE 802.11gn HT20 Mode / Chain 2)



CH Middle (IEEE 802.11gn HT20 Mode / Chain 2)



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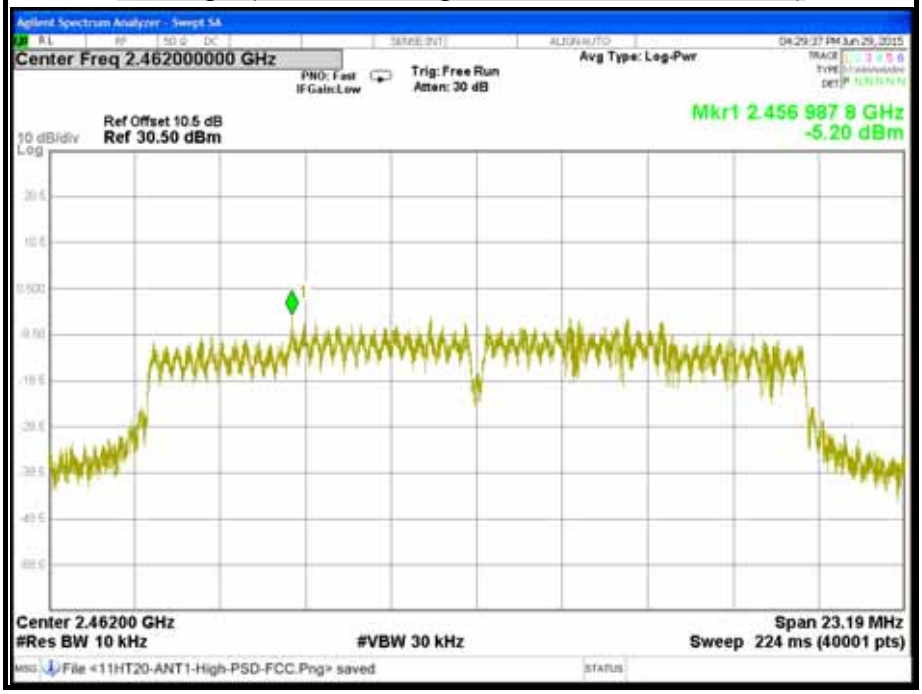
CH High (IEEE 802.11gn HT20 Mode / Chain 2)



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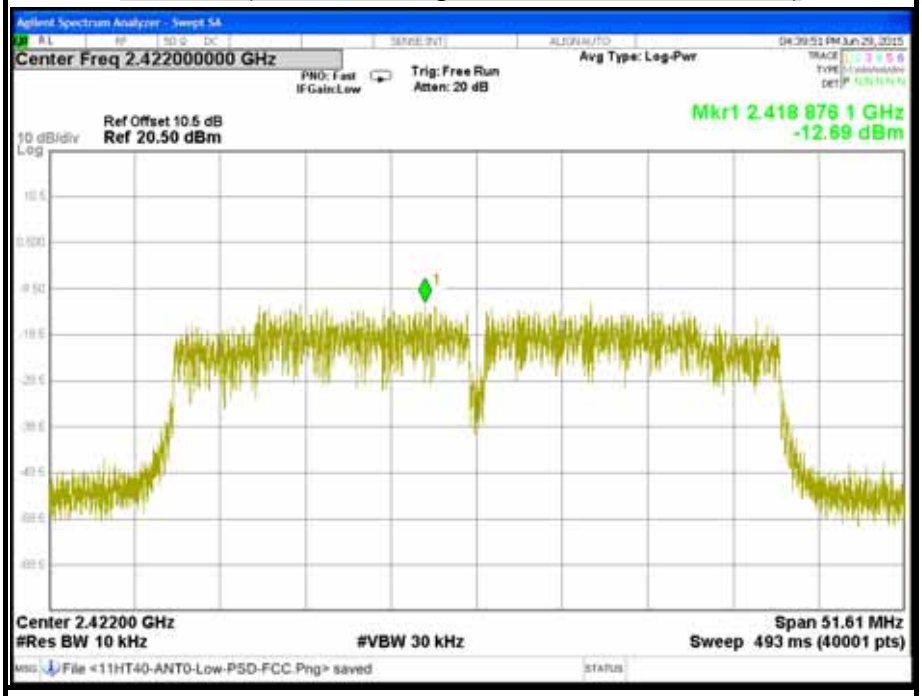
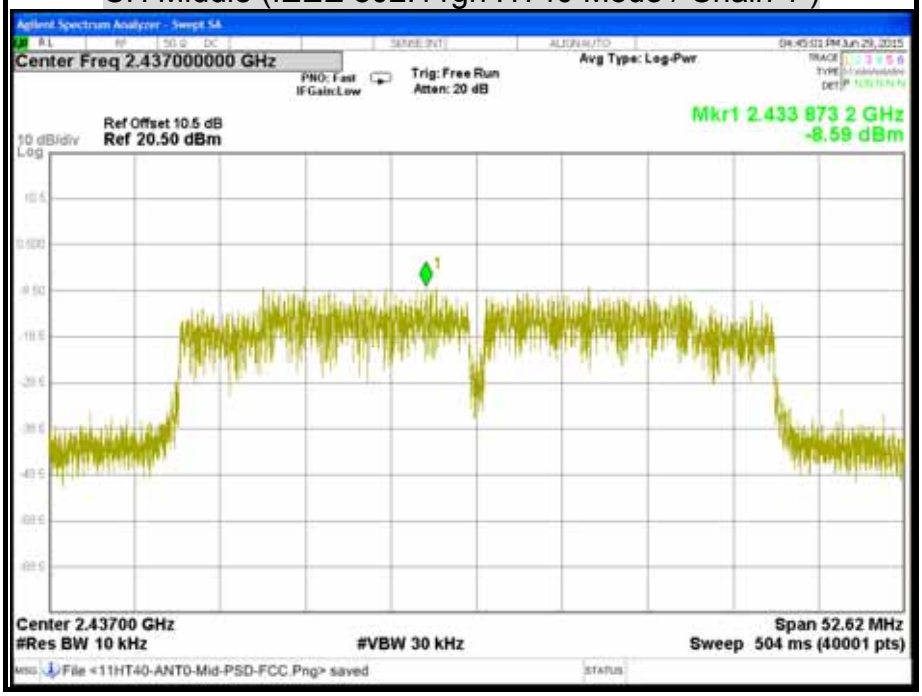
CH Low (IEEE 802.11gn HT40 Mode / Chain 1)



CH Middle (IEEE 802.11gn HT40 Mode / Chain 1)



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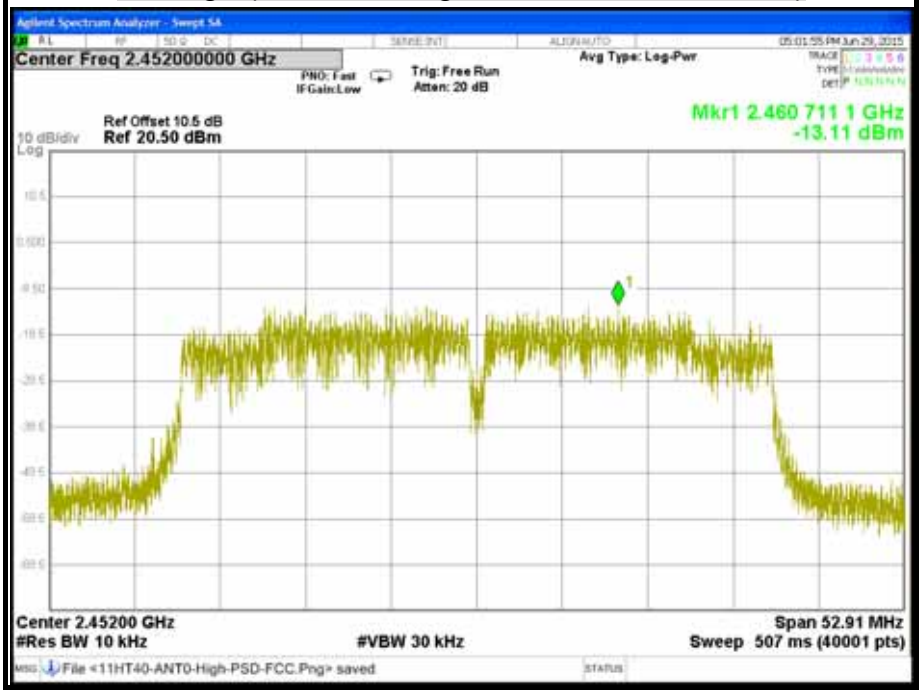
CH High (IEEE 802.11gn HT40 Mode / Chain 1)



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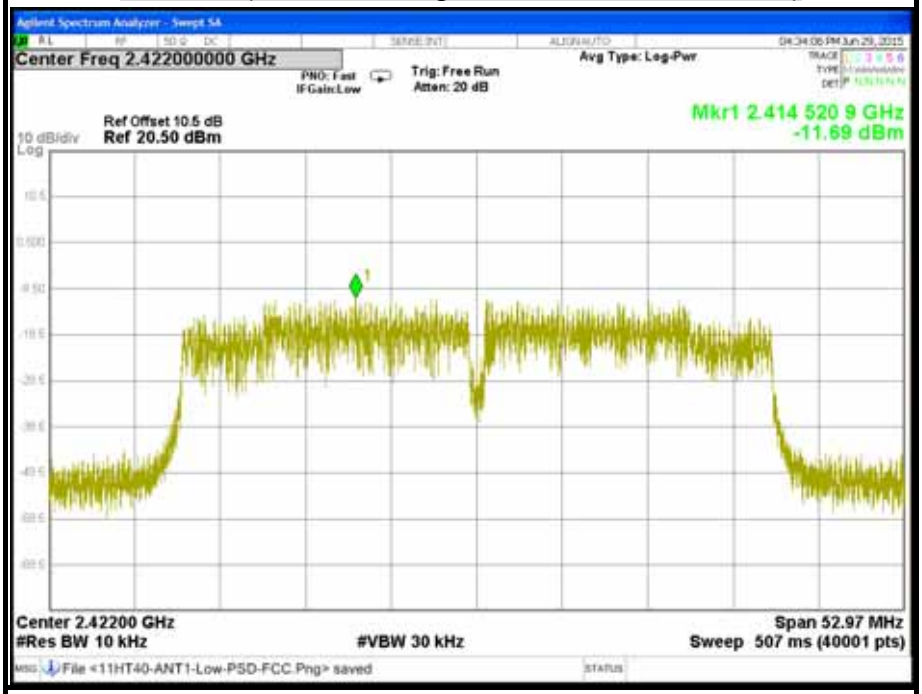
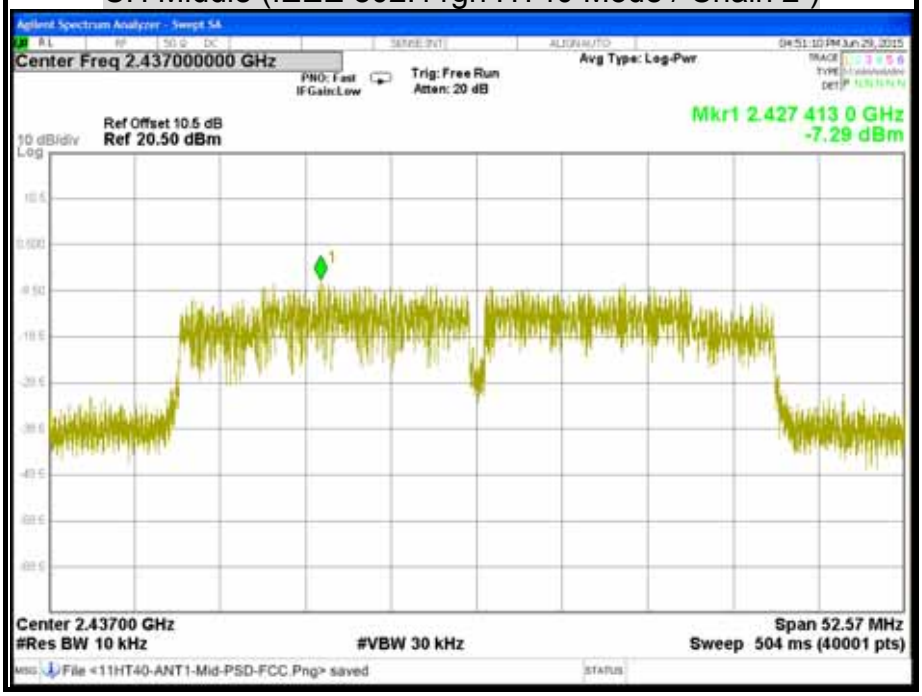
CH Low (IEEE 802.11gn HT40 Mode / Chain 2)



CH Middle (IEEE 802.11gn HT40 Mode / Chain 2)



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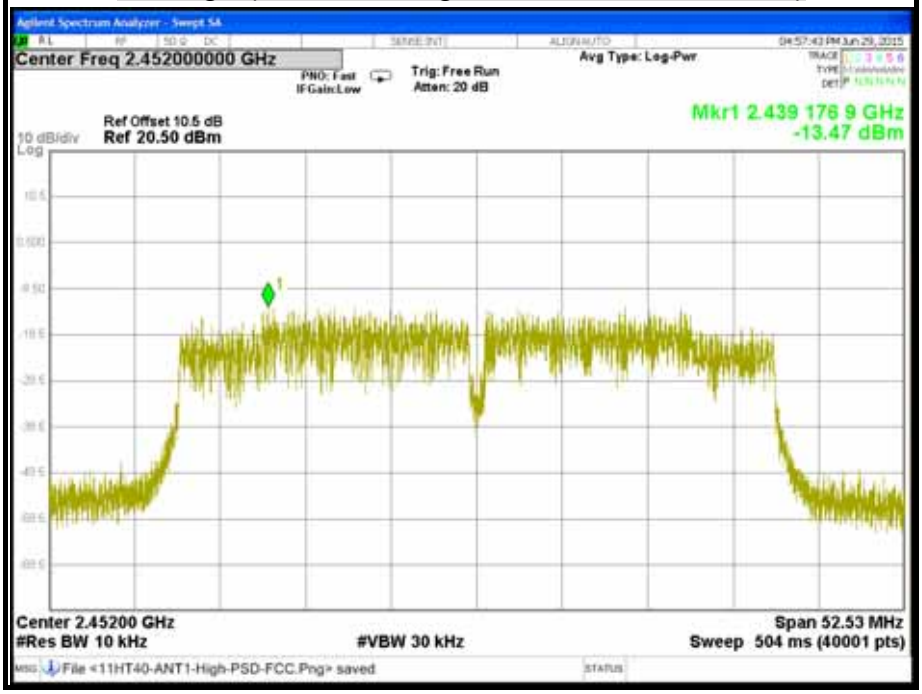
CH High (IEEE 802.11gn HT40 Mode / Chain 2)



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7.5 CONDUCTED SPURIOUS EMISSION

LIMITS

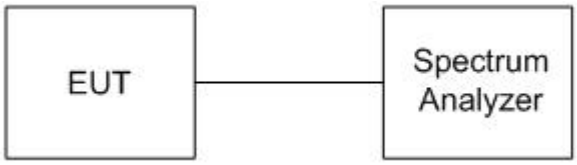
§ 15.247(d) In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the and that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. Attenuation below the general limits specified in § 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a) (see § 15.205(c)).

TEST EQUIPMENT

Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
EXA Signal Analyzer	Agilent	N9010A	MY52220817	03/19/2016

Remark: *Each piece of equipment is scheduled for calibration once a year.*

TEST SETUP



TEST PROCEDURE

The transmitter output is connected to a spectrum analyzer. The resolution bandwidth is set to 100 kHz. The video bandwidth is set to 300 kHz.

The spectrum from 30 MHz to 26.5 GHz is investigated with the transmitter set to the lowest, middle, and highest channels in the 2.4 GHz band.

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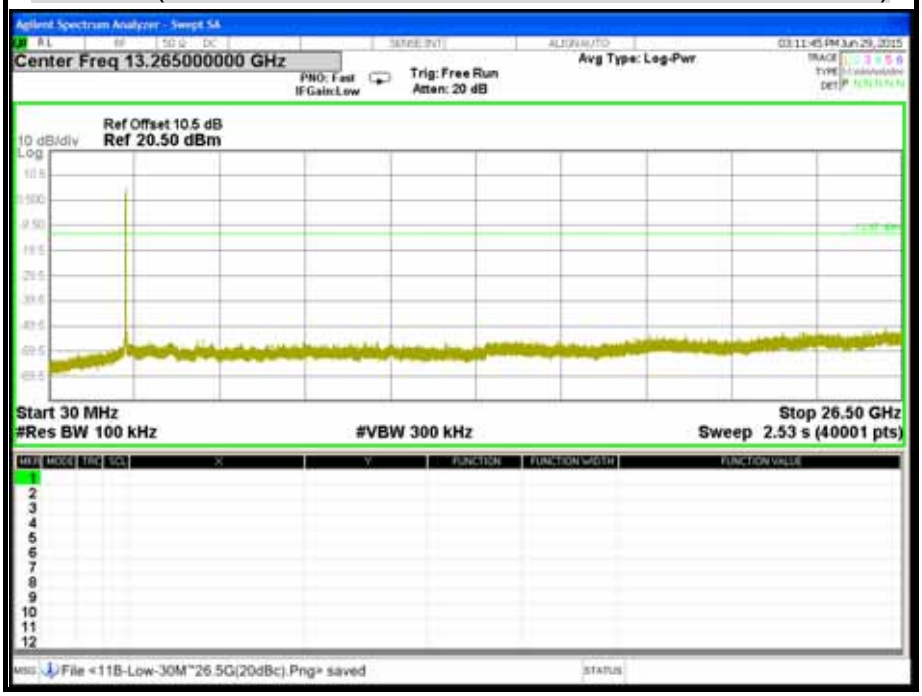
TEST RESULTS

OUT-OF-BAND SPURIOUS EMISSIONS-CONDUCTED MEASUREMENT

CH Low (2.38GHz ~ 2.5GHz / IEEE 802.11b Mode / Chain 1)

CH Low (30MHz ~ 26.5GHz / IEEE 802.11b Mode / Chain 1)



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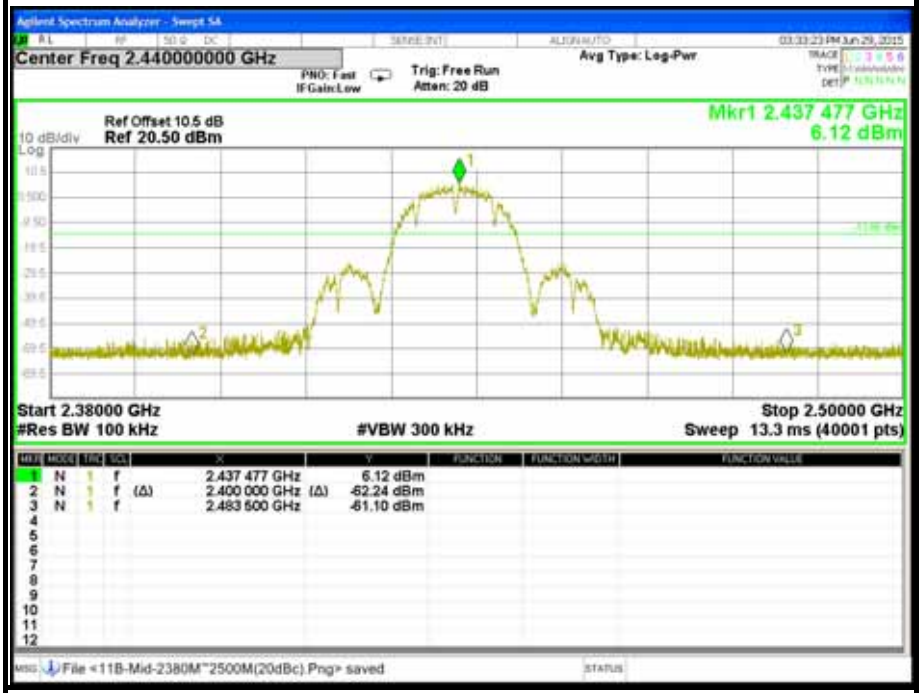
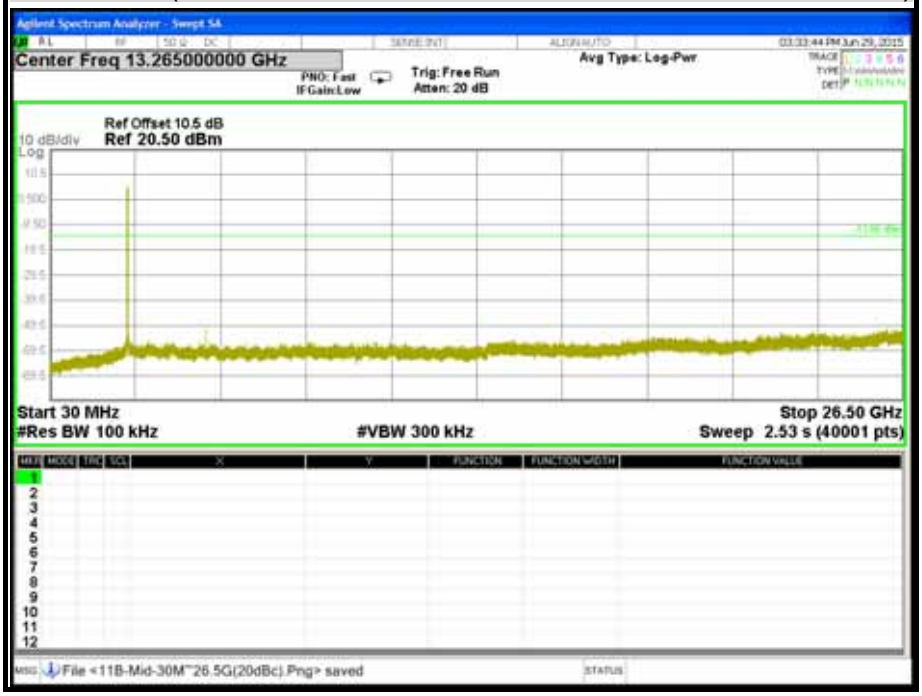
CH Middle (2.38GHz ~ 2.5GHz / IEEE 802.11b Mode / Chain 1)



CH Middle (30MHz ~ 26.5GHz / IEEE 802.11b Mode / Chain 1)



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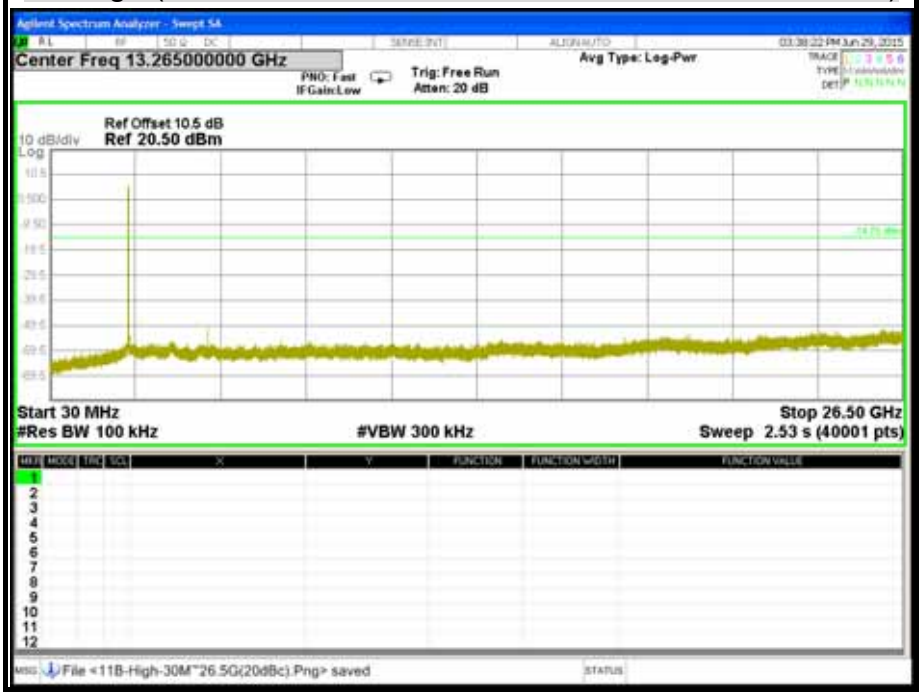
CH High (2.38GHz ~ 2.5GHz / IEEE 802.11b Mode / Chain 1)

CH High (30MHz ~ 26.5GHz / IEEE 802.11b Mode / Chain 1)



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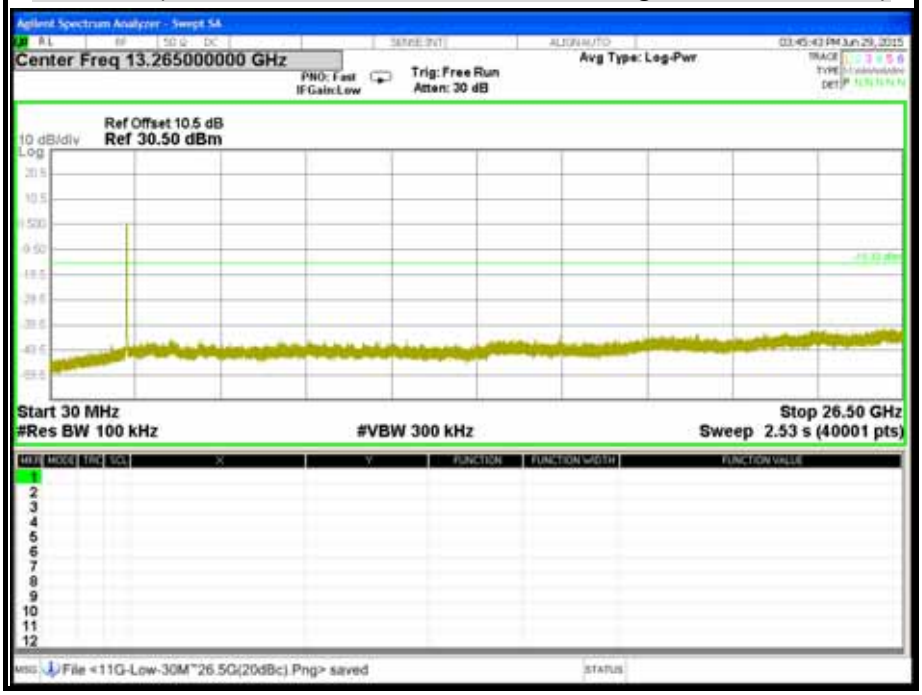
CH Low (2.38GHz ~ 2.5GHz / IEEE 802.11g Mode / Chain 1)

CH Low (30MHz ~ 26.5GHz / IEEE 802.11g Mode / Chain 1)



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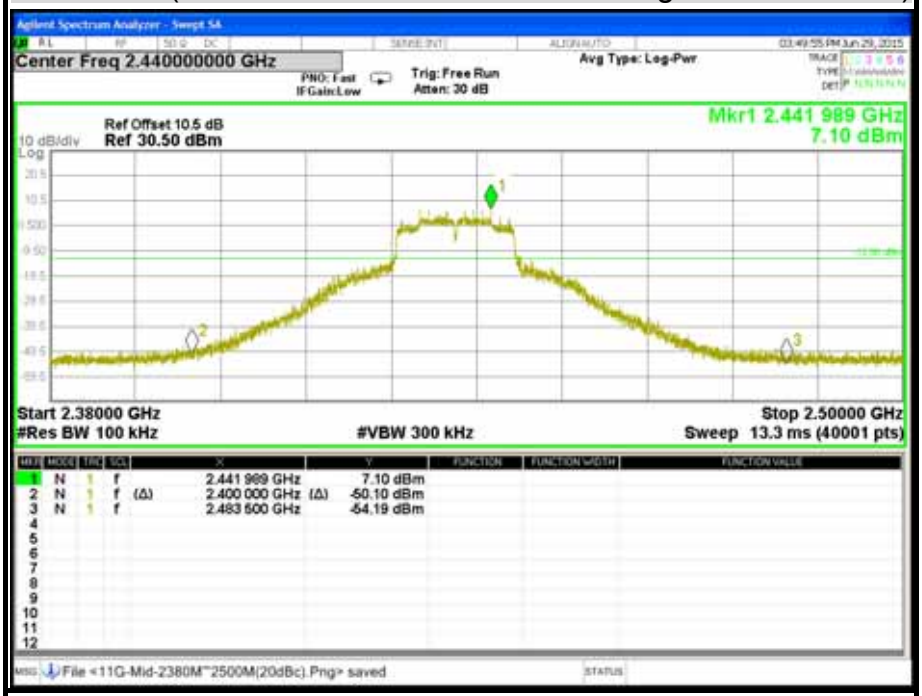
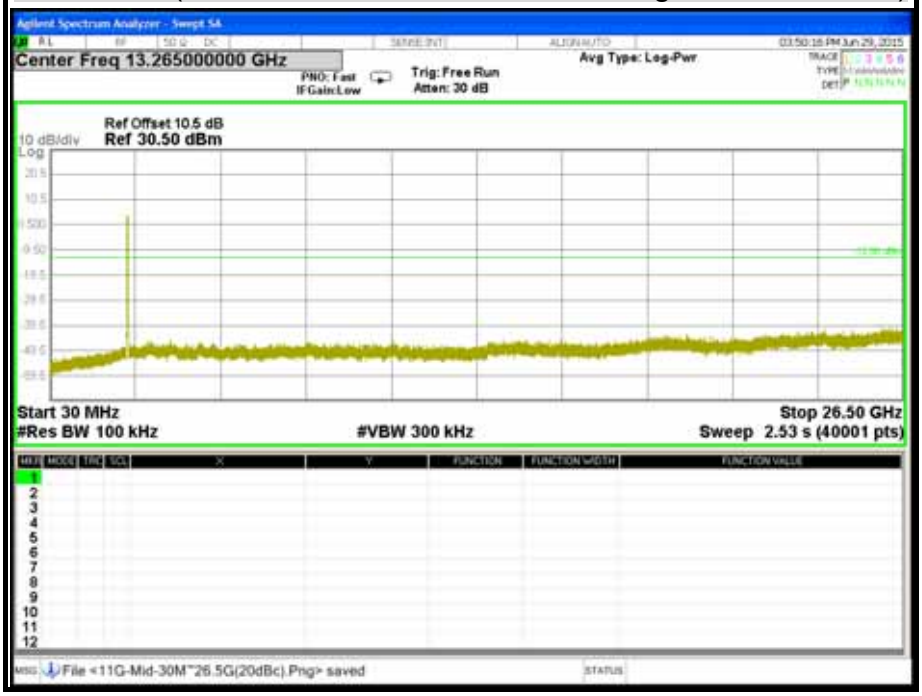
CH Middle (2.38GHz ~ 2.5GHz / IEEE 802.11g Mode / Chain 1)



CH Middle (30MHz ~ 26.5GHz / IEEE 802.11g Mode / Chain 1)



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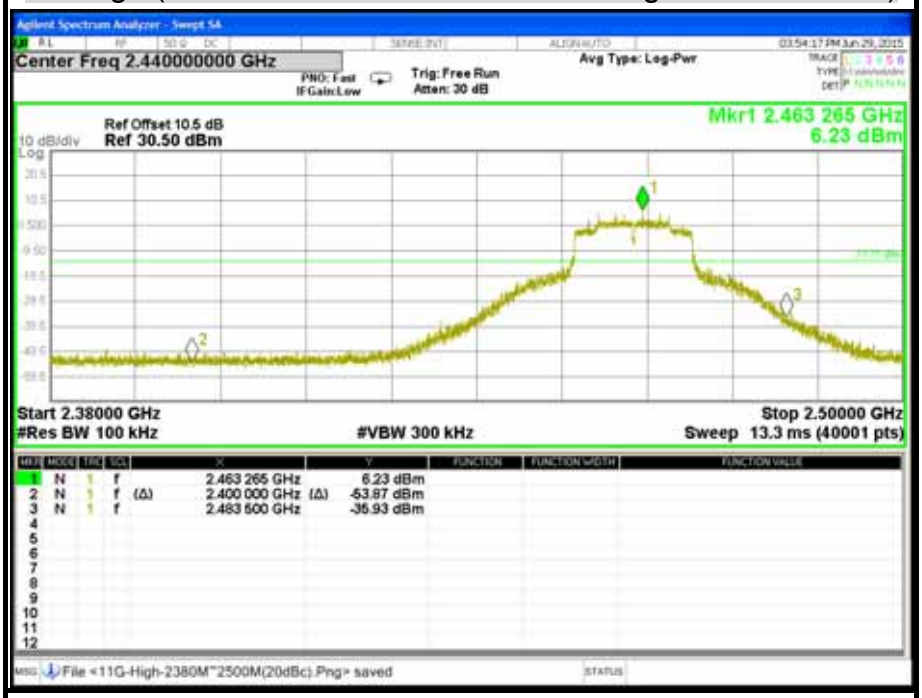
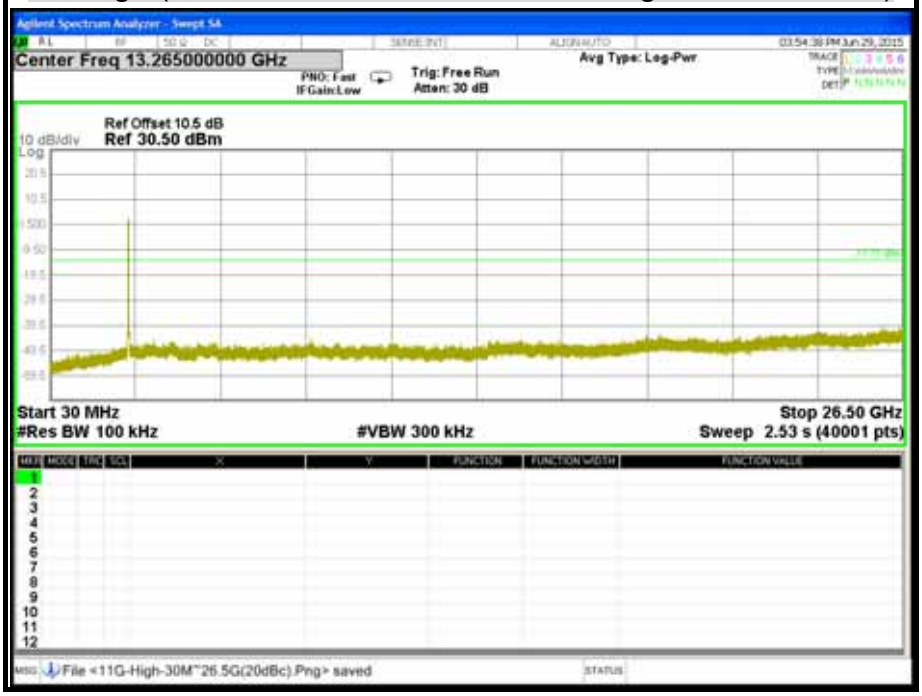
CH High (2.38GHz ~ 2.5GHz / IEEE 802.11g Mode / Chain 1)



CH High (30MHz ~ 26.5GHz / IEEE 802.11g Mode / Chain 1)



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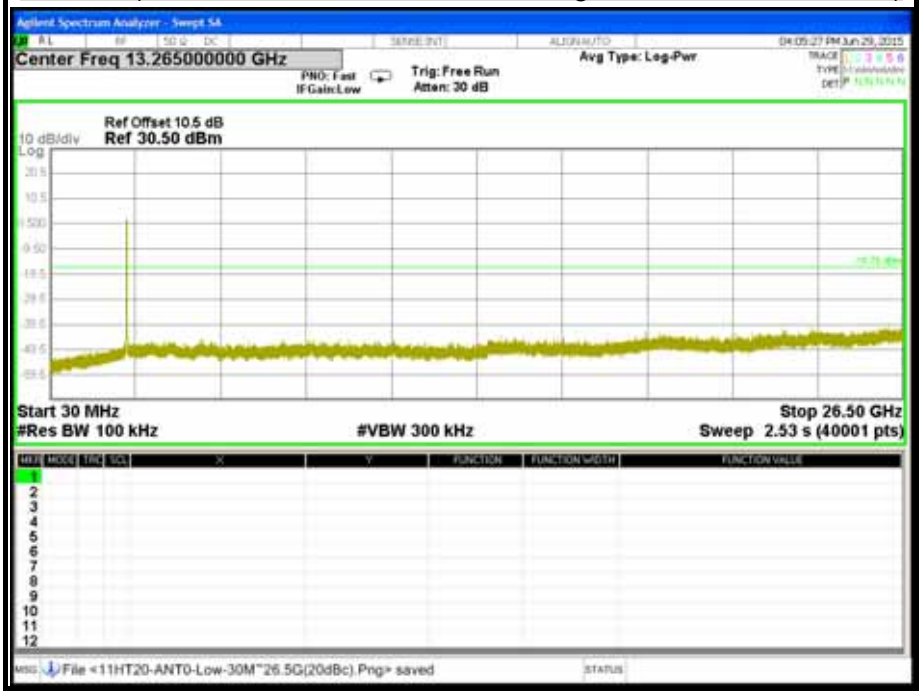
CH Low (2.38GHz ~ 2.5GHz / IEEE 802.11gn HT20 Mode / Chain 1)

CH Low (30MHz ~ 26.5GHz / IEEE 802.11gn HT20 Mode / Chain 1)



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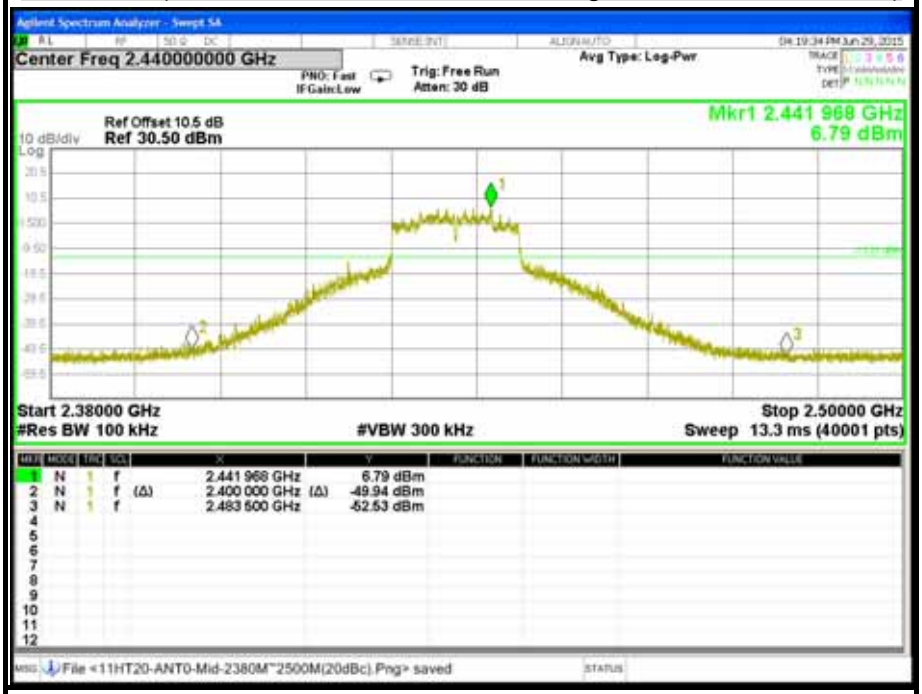
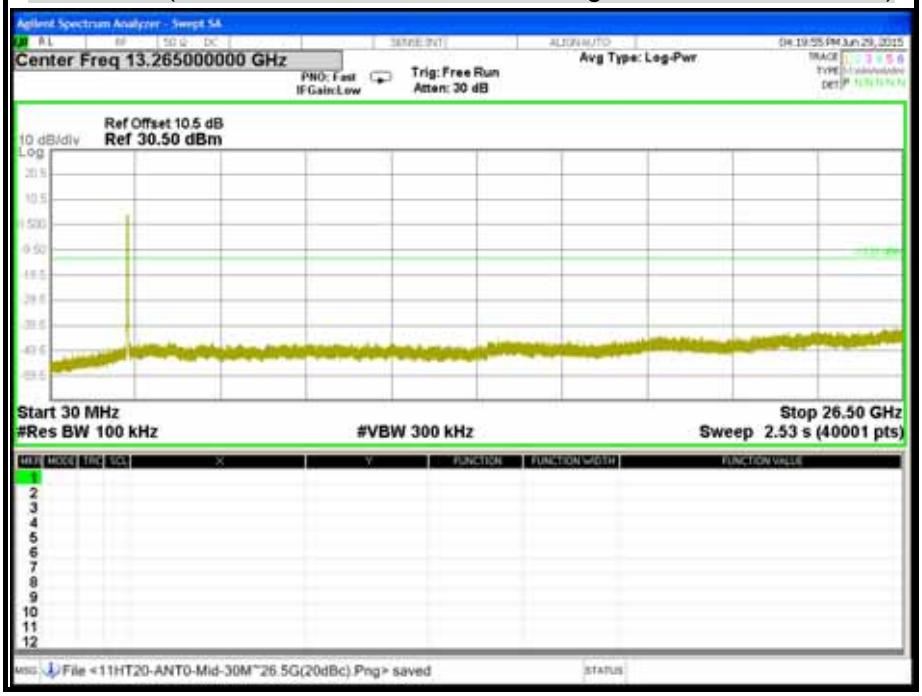
CH Middle (2.38GHz ~ 2.5GHz / IEEE 802.11gn HT20 Mode / Chain 1)



CH Middle (30MHz ~ 26.5GHz / IEEE 802.11gn HT20 Mode/ Chain 1)



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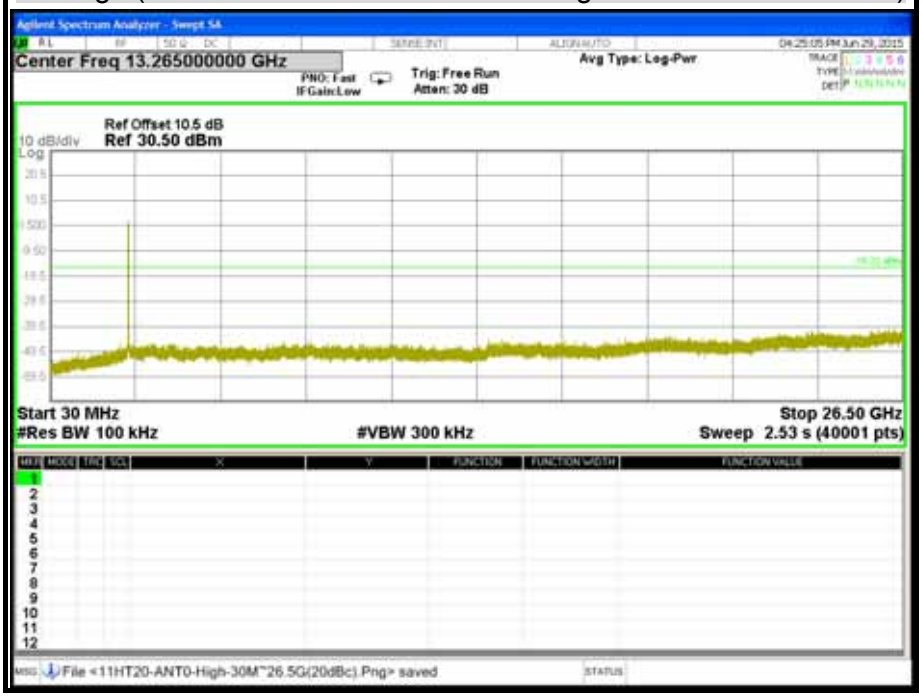
CH High (2.38GHz ~ 2.5GHz / IEEE 802.11gn HT20 Mode / Chain 1)

CH High (30MHz ~ 26.5GHz / IEEE 802.11gn HT20 Mode / Chain 1)



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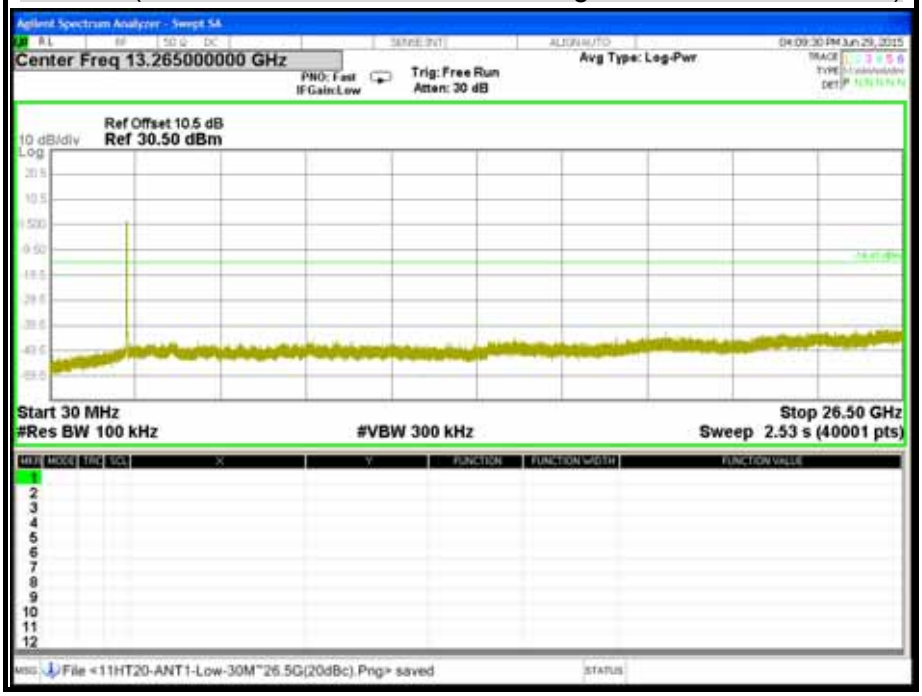
CH Low (2.38GHz ~ 2.5GHz / IEEE 802.11gn HT20 Mode / Chain 2)

CH Low (30MHz ~ 26.5GHz / IEEE 802.11gn HT20 Mode / Chain 2)



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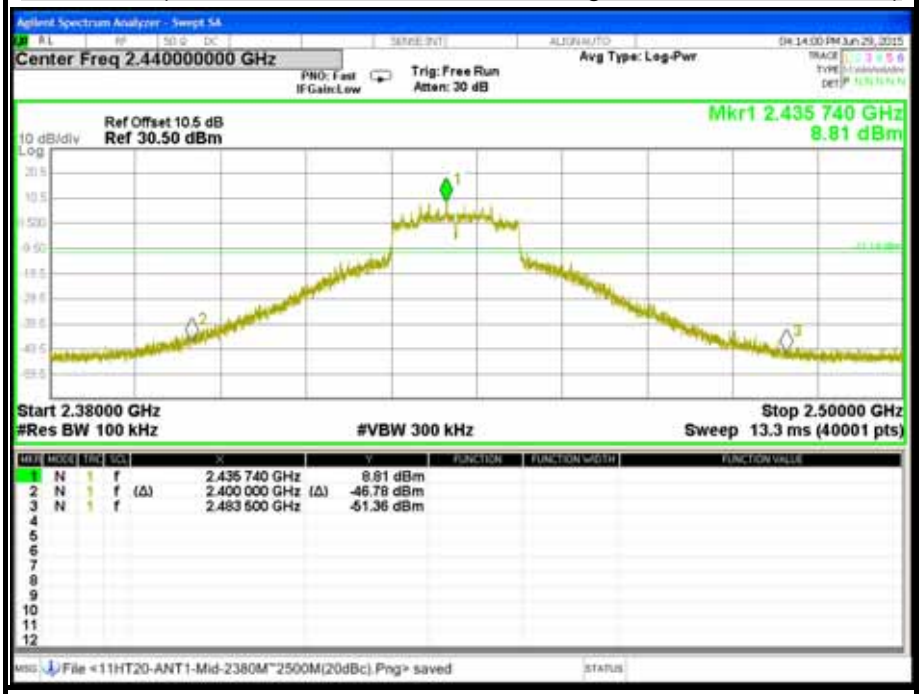
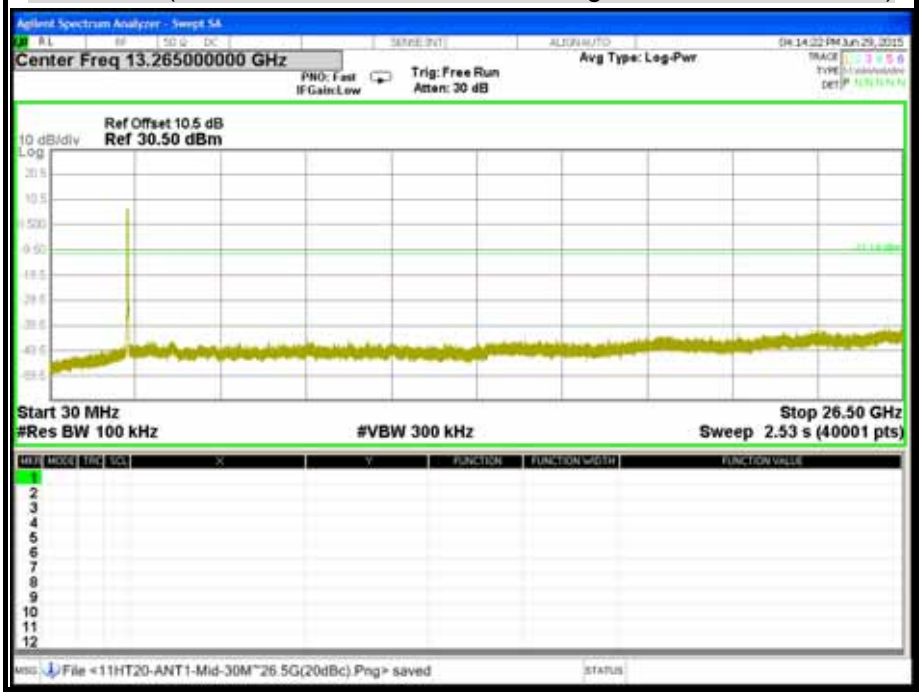
CH Middle (2.38GHz ~ 2.5GHz / IEEE 802.11gn HT20 Mode / Chain 2)



CH Middle (30MHz ~ 26.5GHz / IEEE 802.11gn HT20 Mode/ Chain 2)



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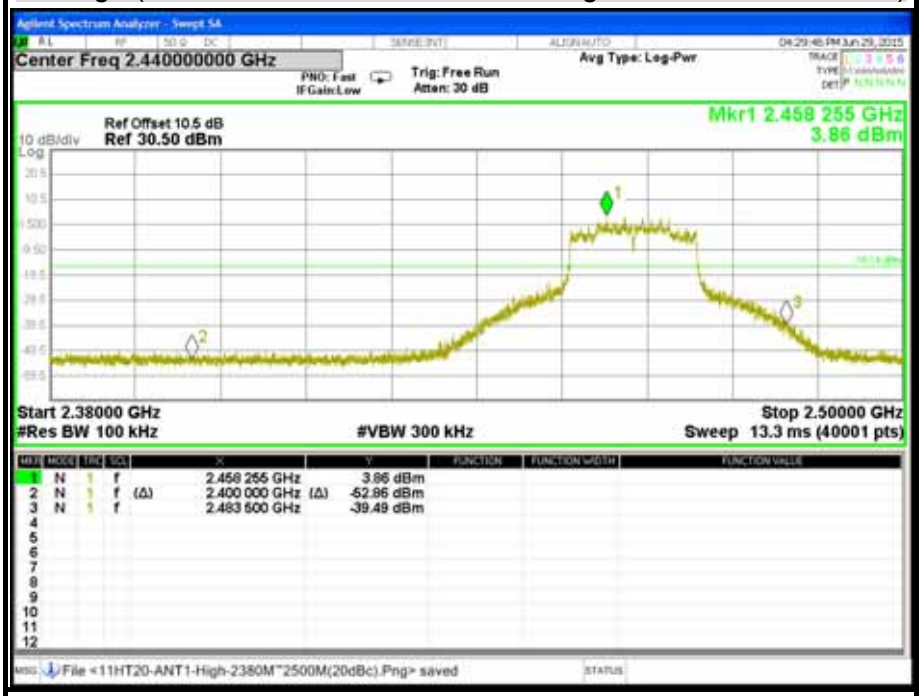
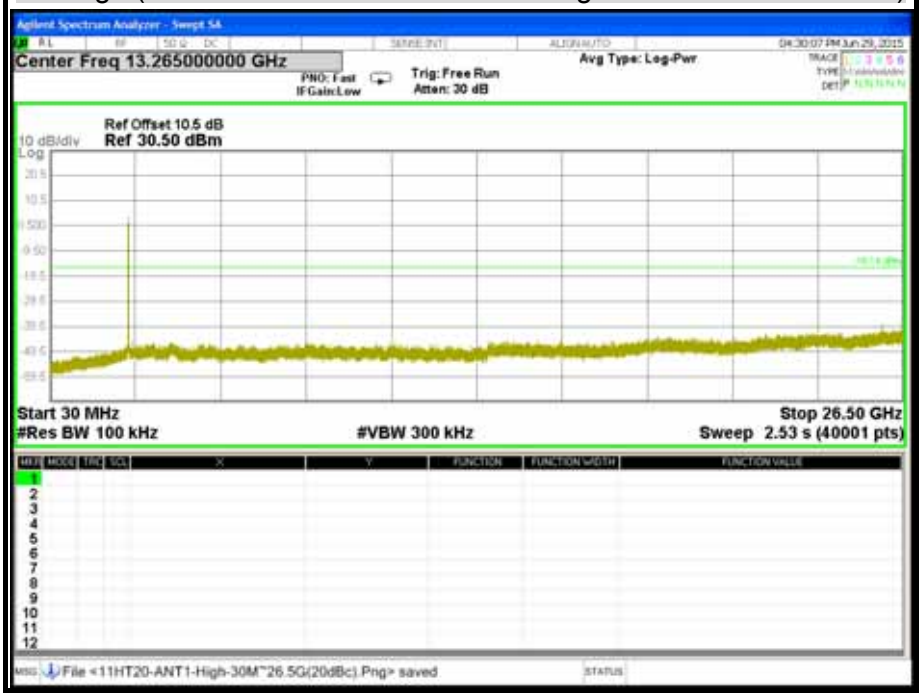
CH High (2.38GHz ~ 2.5GHz / IEEE 802.11gn HT20 Mode / Chain 2)



CH High (30MHz ~ 26.5GHz / IEEE 802.11gn HT20 Mode / Chain 2)



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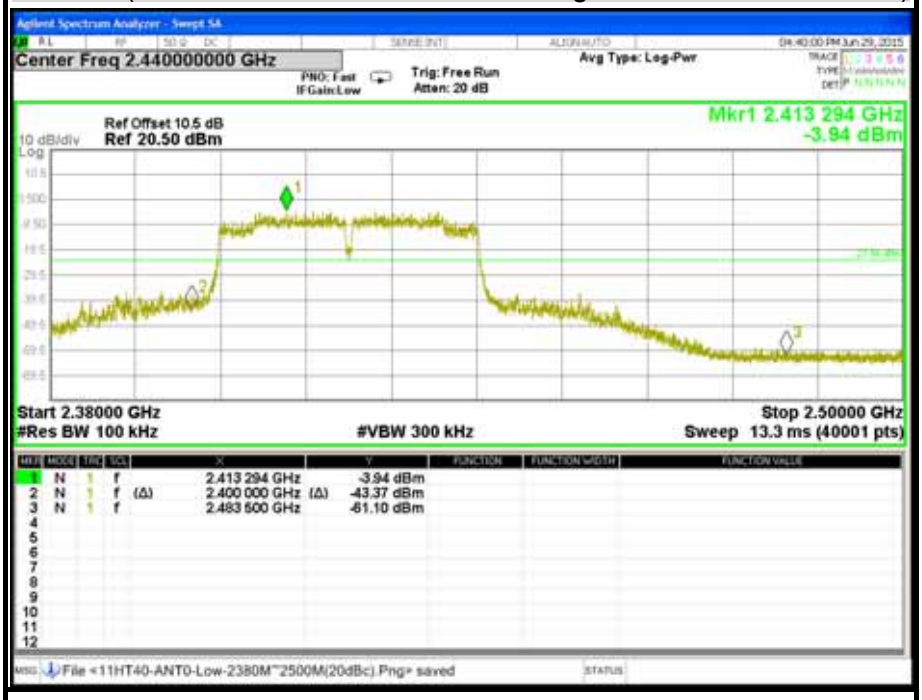
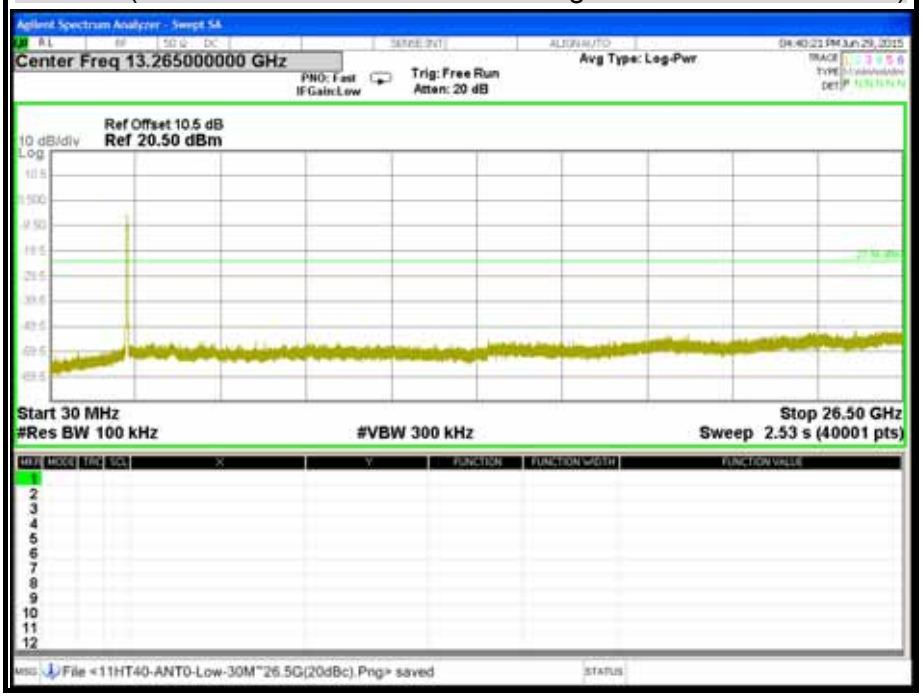
CH Low (2.38GHz ~ 2.5GHz / IEEE 802.11gn HT40 Mode / Chain 1)



CH Low (30MHz ~ 26.5GHz / IEEE 802.11gn HT40 Mode / Chain 1)



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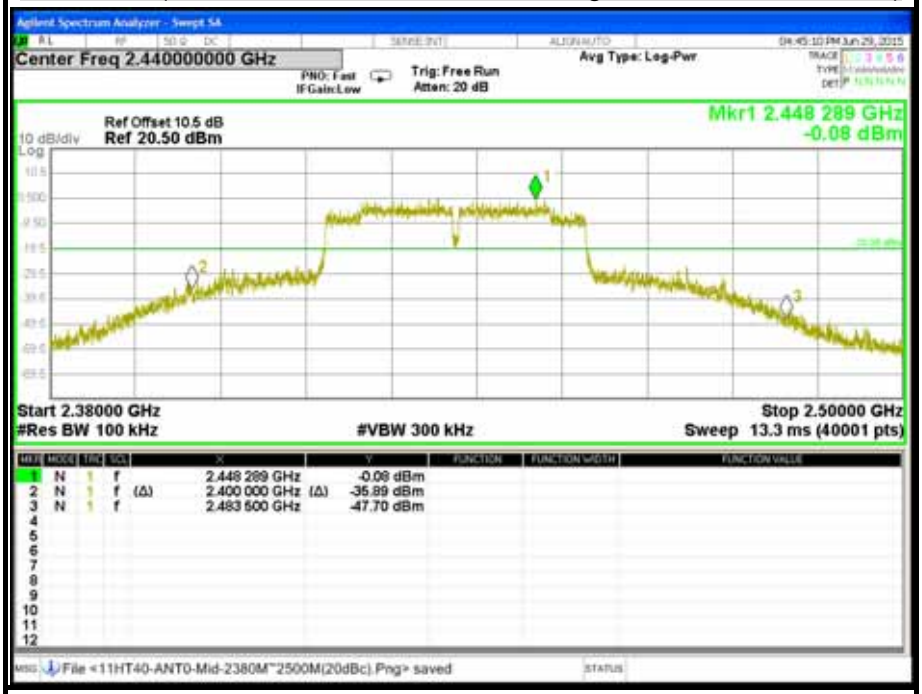
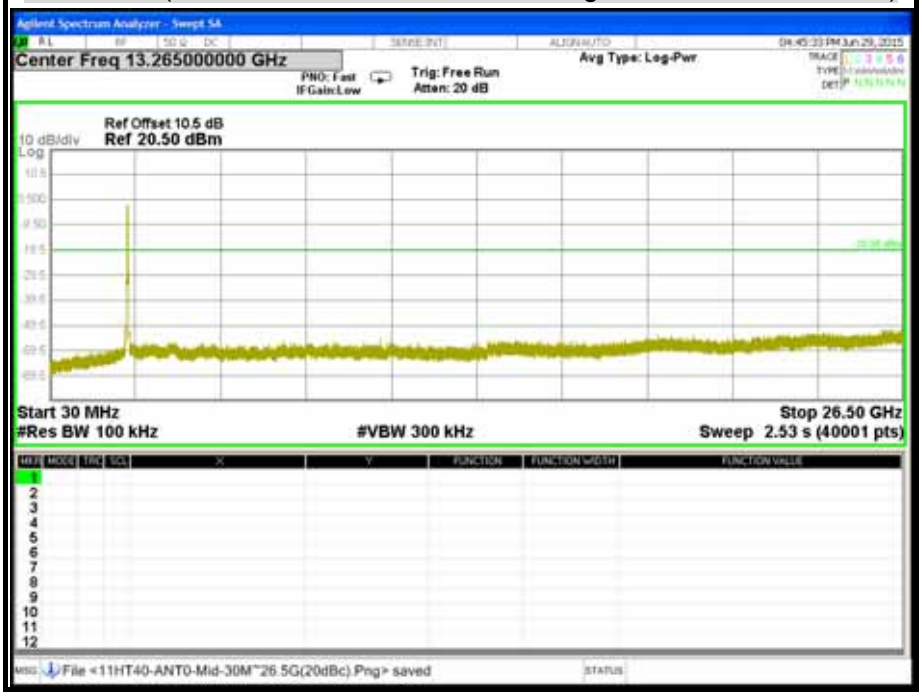
CH Middle (2.38MHz ~ 2.5GHz / IEEE 802.11gn HT40 Mode / Chain 1)



CH Middle (30MHz ~ 26.5GHz / IEEE 802.11gn HT40 Mode / Chain 1)



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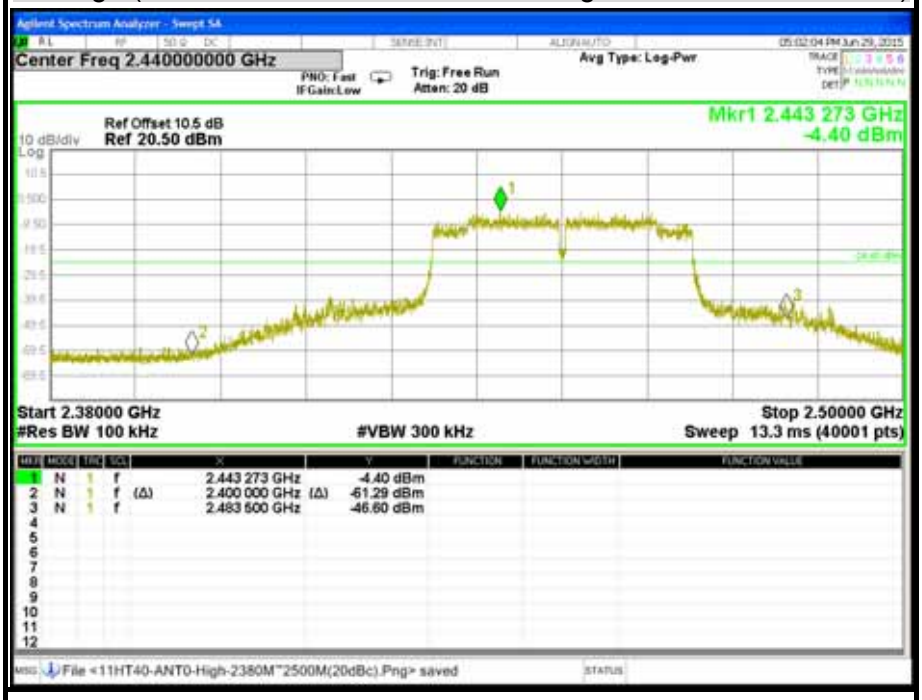
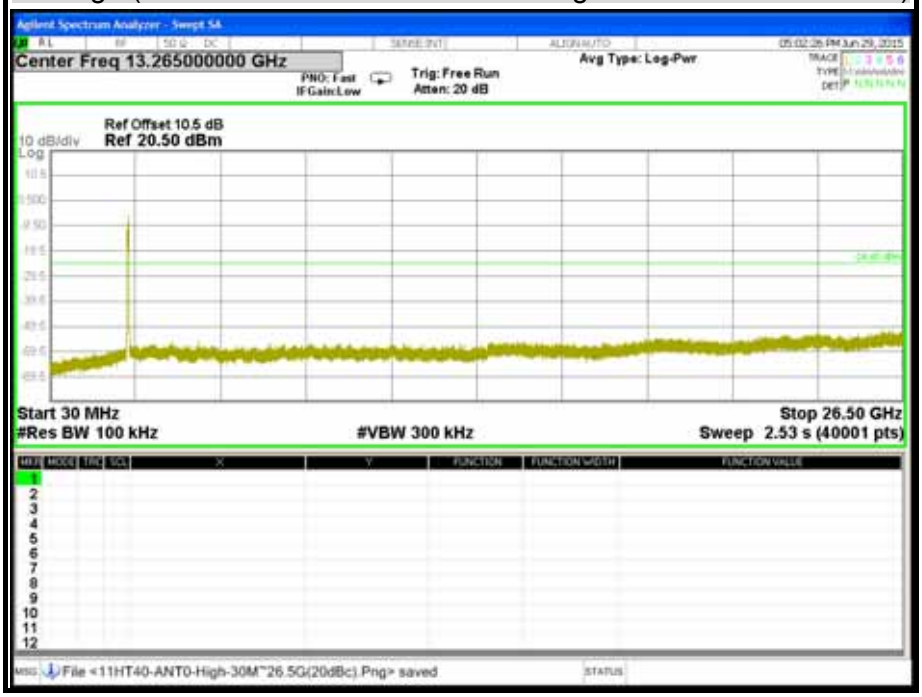
CH High (2.38GHz ~ 2.5GHz / IEEE 802.11gn HT40 Mode / Chain 1)



CH High (30MHz ~ 26.5GHz / IEEE 802.11gn HT40 Mode / Chain 1)



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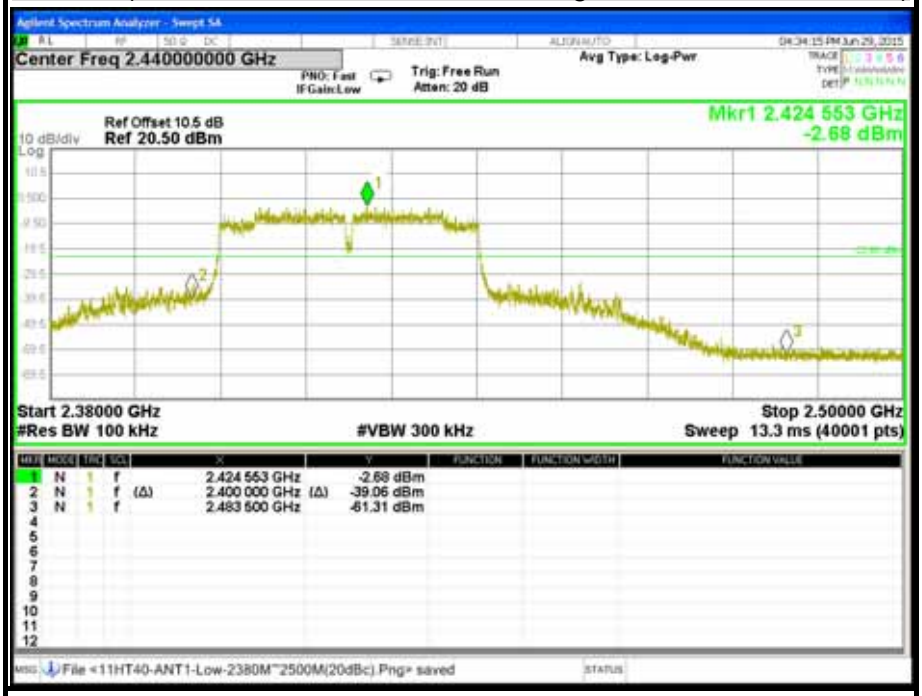
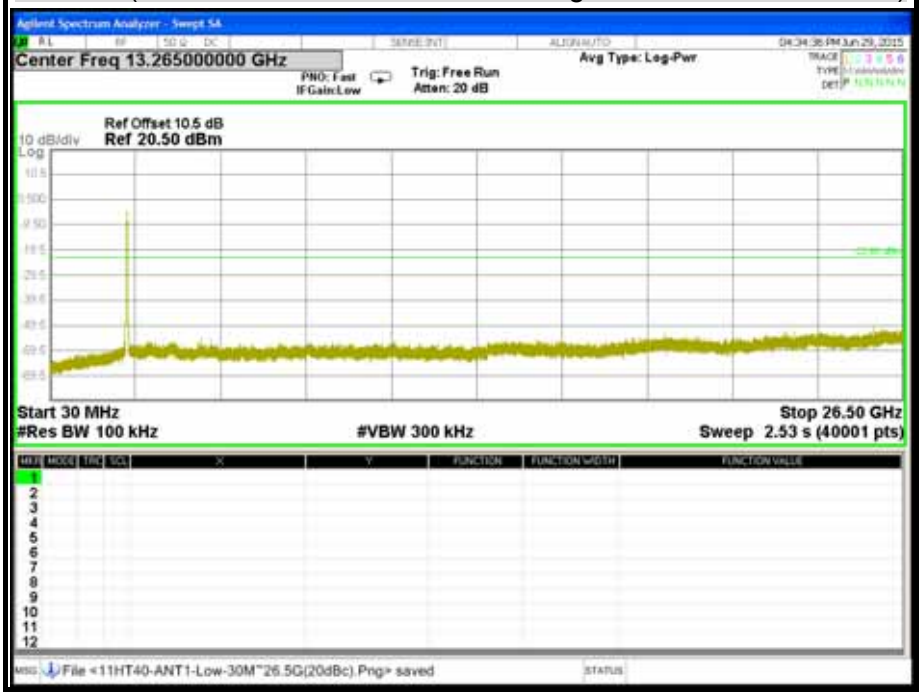
CH Low (2.38GHz ~ 2.5GHz / IEEE 802.11gn HT40 Mode / Chain 2)



CH Low (30MHz ~ 26.5GHz / IEEE 802.11gn HT40 Mode / Chain 2)



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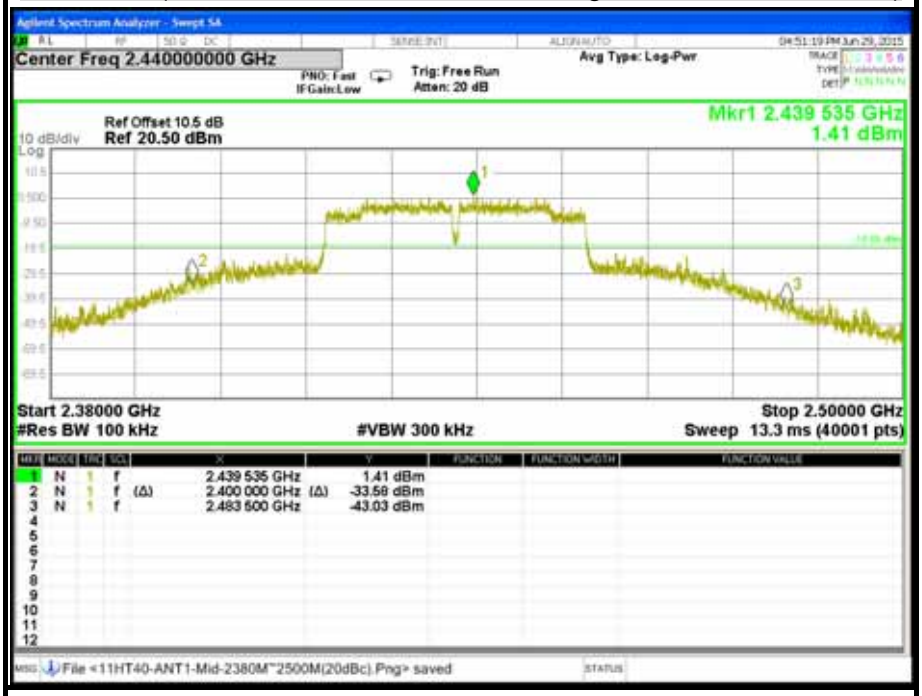
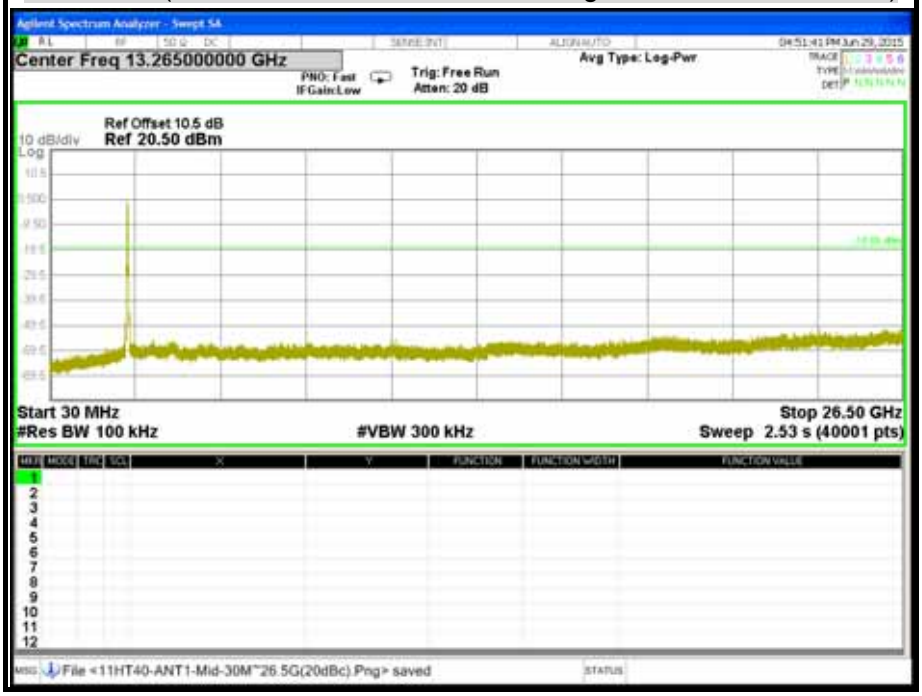
CH Middle (2.38MHz ~ 2.5GHz / IEEE 802.11gn HT40 Mode / Chain 2)



CH Middle (30MHz ~ 26.5GHz / IEEE 802.11gn HT40 Mode / Chain 2)



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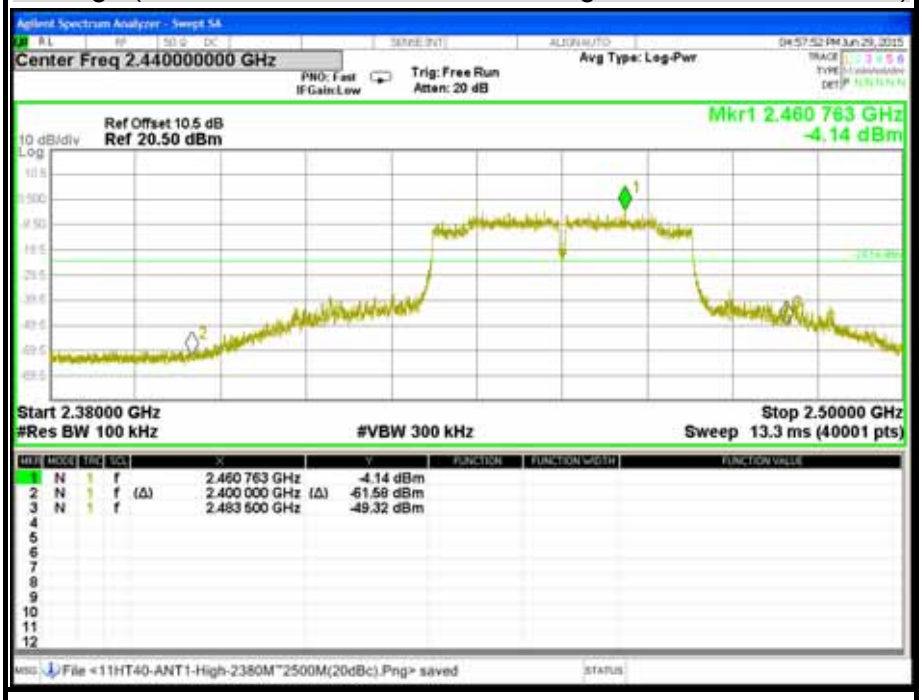
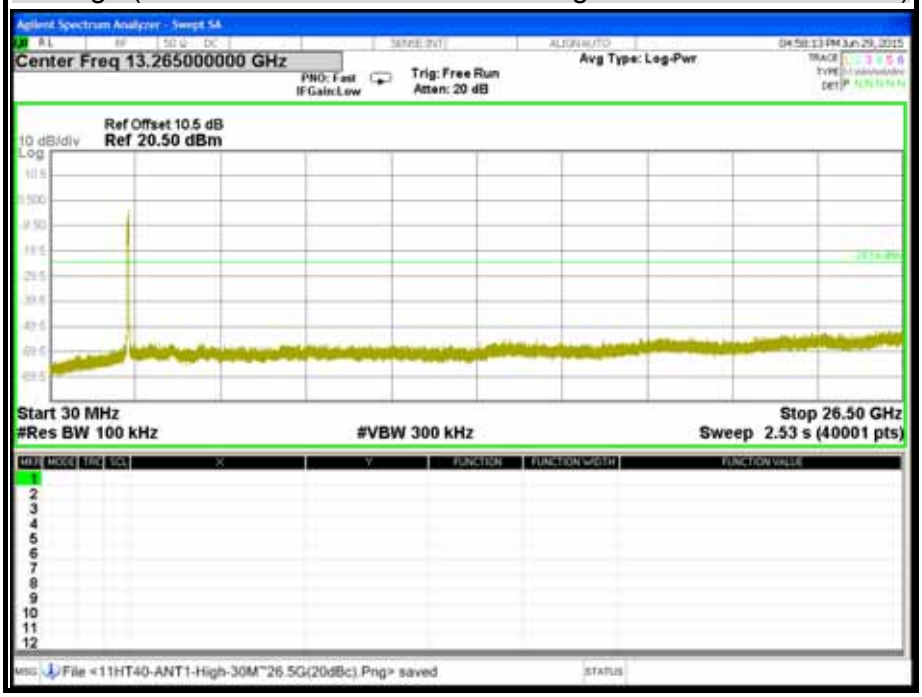
CH High (2.38GHz ~ 2.5GHz / IEEE 802.11gn HT40 Mode / Chain 2)



CH High (30MHz ~ 26.5GHz / IEEE 802.11gn HT40 Mode / Chain 2)



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7.6 RADIATED EMISSION

LIMITS

(1) According to § 15.205 (a) Except as shown in paragraph (d) of this section, only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
[1]0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 -1710	10.6 -12.7
6.26775 - 6.26825	108 -121.94	1718.8 - 1722.2	13.25 -13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 – 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 -16.2
8.362 - 8.366	156.52475 - 156.52525	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.7 - 156.9	2655 - 2900	22.01 - 23.12
8.41425 - 8.41475	162.0125 - 167.17	3260 - 3267	23.6 - 24.0
12.29 - 12.293	167.72 - 173.2	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	240 - 285	3345.8 - 3338	36.43 - 36.5
12.57675 - 12.57725	322 -335.4	3600 - 4400	([2])
13.36 - 13.41			

Remark:
1. *[1] Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.*
2. *[2] Above 38.6*

(2) According to § 15.205 (b) Except as provided in paragraphs (d) and (e), the field strength of emissions appearing within these frequency bands shall not exceed the limits shown is Section 15.209. At frequencies equal to or less than 1000 MHz, compliance with the limits in Section 15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasi-peak detector. Above 1000 MHz, compliance with the emission limits in Section 15.209 shall be demonstrated based on the average value of the measured emissions. The provisions in Section 15.35 apply to these measurements.

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

Remark: ***Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this Section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this Part, e.g., Sections 15.231 and 15.241.*

(4) According to § 15.209 (b) In the emission table above, the tighter limit applies at the band edges.

TEST EQUIPMENT

Radiated Emission / 966Chamber_C

Name of Equipment	Manufacture	Model	Serial Number	Calibration Due
Spectrum Analyzer	Agilent	E4446A	MY45280064	03/26/2016
EMI Test Receiver	ROHDE & SCHWARZ	ESCI	101387	10/05/2015
Bi-log Antenna	TESEQ	CBL 6112D	35404	02/24/2016
Double-Ridged Waveguide Horn	ETS-LINDGREN	3117	00078732	07/23/2015
Horn Antenna	COM-POWER	AH-840	03077	12/17/2015
Pre-Amplifier	EMCI	EMC001625	980243	04/12/2016
Pre-Amplifier	COM-POWER	PAM-118A	551043	04/12/2016
Notch Filters Band Reject	Micro-Tronics	BRM50702-01	009	N.C.R
LOOP Antenna	EMCO	6502	8905-2356	09/23/2015

Remark: *1. Each piece of equipment is scheduled for calibration once a year.*
2. N.C.R = No Calibration Request.

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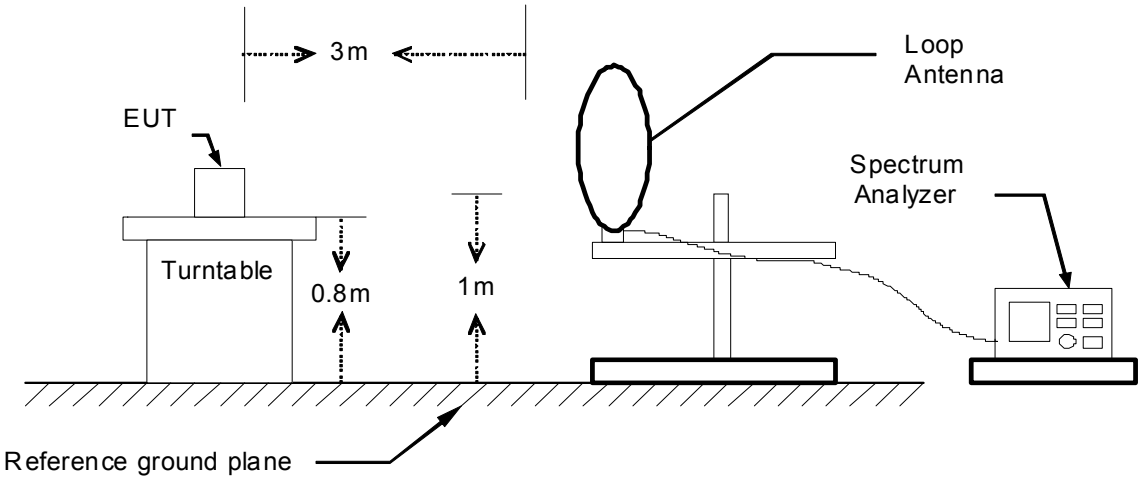
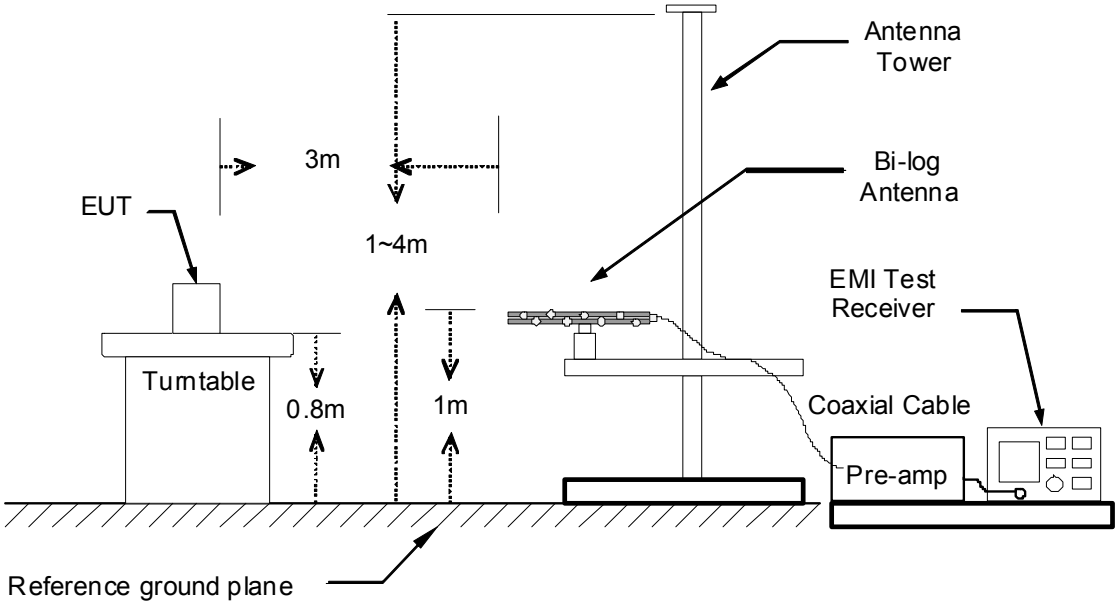
TEST SETUP

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

9kHz ~ 30MHz



30MHz ~ 1GHz



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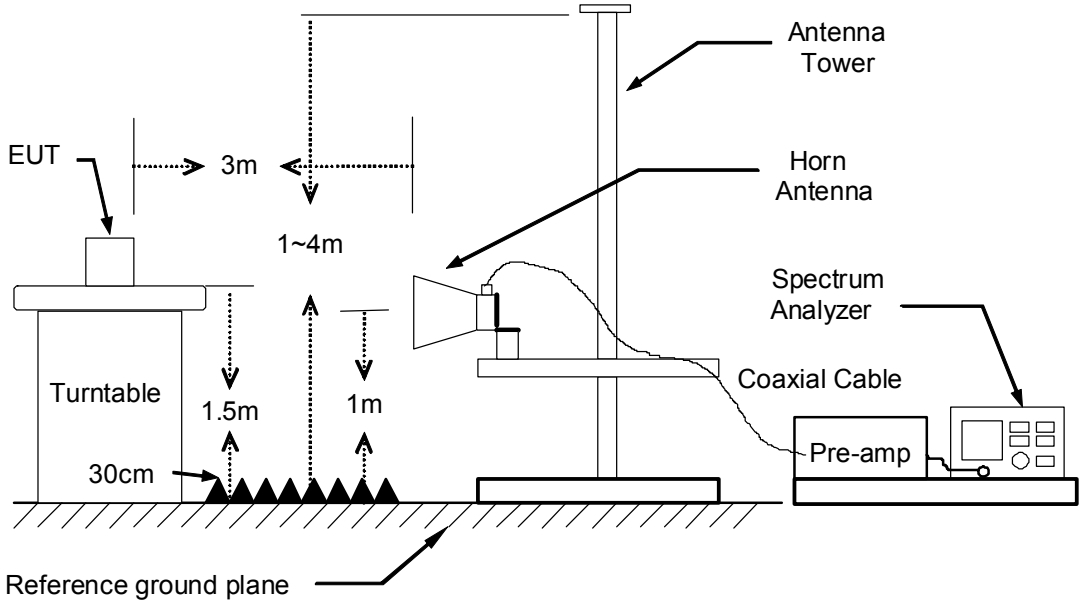
The diagram below shows the test setup that is utilized to make the measurements for emission above 1GHz.



TEST PROCEDURE

1. The EUT was placed on the top of a rotating table 0.8 and 1.5 meters above the ground. The table was rotated 360 degrees to determine the position of the highest radiation.
2. While measuring the radiated emission below 1GHz, the EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. While measuring the radiated emission above 1GHz, the EUT was set 3 meters away from the interference-receiving antenna.
3. The antenna is a broadband 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 polarization 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 dB 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 dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

Remark：

1. *The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 KHz for Peak detection (PK) and Quasi-peak detection (QP) at frequency below 1GHz.*
2. *The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1 MHz for Peak detection and frequency above 1GHz.*
3. *The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 10 Hz for Average detection (AV) at frequency above 1GHz.*

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TEST RESULTS

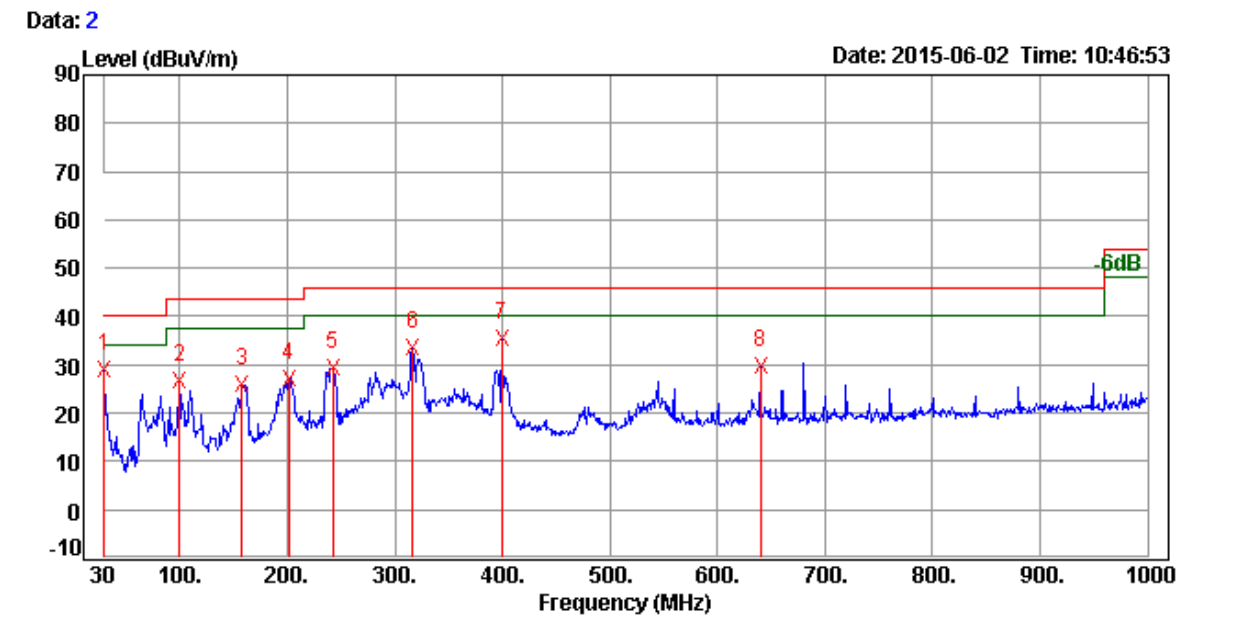
Below 1 GHz (9kHz ~ 30MHz)

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

Below 1 GHz (30MHz ~ 1GHz)

Product Name	Computer	Test By	Waternil Guan
Test Model	POC127	Test Date	2015/06/02
Test Mode	TX Mode	Temp. & Humidity	26°C, 52%

966 Chamber_C at 3Meter / Horizontal



Trace:

Freq. MHz	Reading dBuV	C.F. dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Azimuth deg	Height cm	Remark
30.00	40.05	-11.11	28.94	40.00	-11.06	172	300	Peak
99.84	46.75	-19.96	26.79	43.50	-16.71	114	300	Peak
158.04	46.17	-20.11	26.06	43.50	-17.44	24	200	Peak
201.69	47.48	-20.32	27.16	43.50	-16.34	63	100	Peak
242.43	47.53	-18.08	29.45	46.00	-16.55	186	100	Peak
316.15	49.30	-15.91	33.39	46.00	-12.61	355	100	Peak
399.57	48.78	-13.45	35.33	46.00	-10.67	323	200	Peak
640.13	39.77	-10.07	29.70	46.00	-16.30	65	100	Peak

Remark:

1. *Quasi-peak test would be performed if the peak result were greater than the quasi-peak limit.*
2. *Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB) – PreAmp.Gain (dB)*
3. *Result (dBuV/m) = Reading (dBuV) + Correction Factor (dB/m)*
4. *Margin (dB) = Remark result (dBuV/m) - Quasi-peak limit (dBuV/m)*

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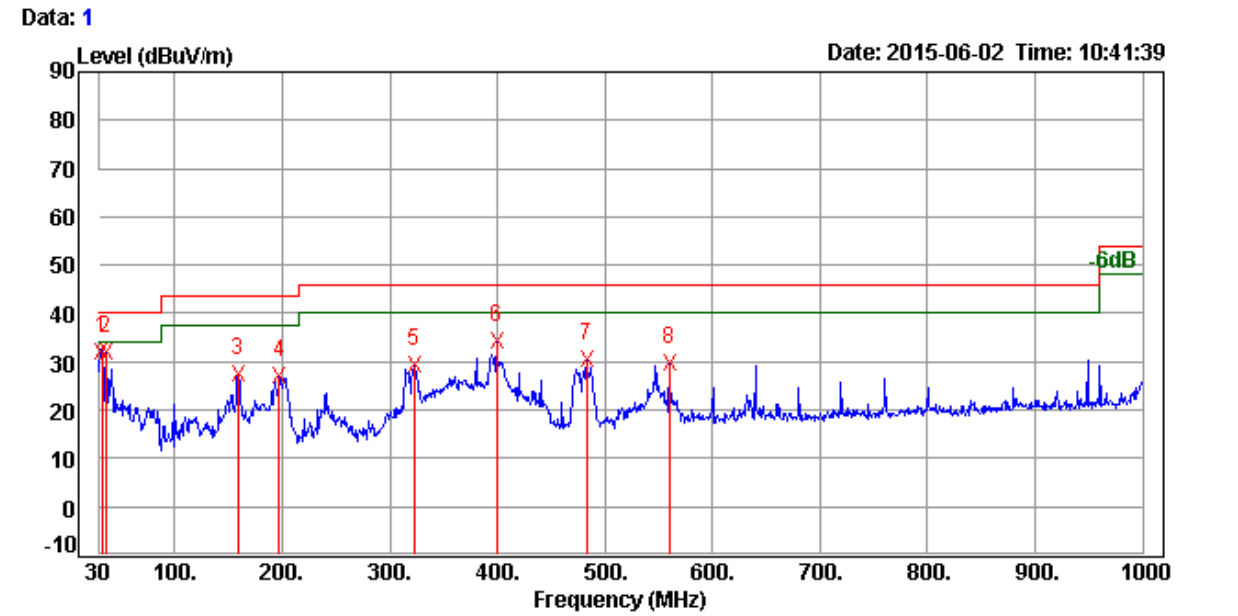
Product Name	Computer	Test By	Waternil Guan
Test Model	POC127	Test Date	2015/06/02
Test Mode	TX Mode	Temp. & Humidity	26°C, 52%

966 Chamber_C at 3Meter / Vertical



Trace:

Freq. MHz	Reading dBuV	C.F. dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Azimuth deg	Height cm	Remark
31.94	44.39	-12.25	32.14	40.00	-7.86	173	100	Peak
35.82	46.41	-14.54	31.87	40.00	-8.13	241	100	Peak
159.01	47.65	-20.15	27.50	43.50	-16.00	148	100	Peak
196.84	47.54	-20.64	26.90	43.50	-16.60	249	100	Peak
322.94	45.02	-15.70	29.32	46.00	-16.68	36	200	Peak
399.57	47.68	-13.45	34.23	46.00	-11.77	1	100	Peak
482.99	42.67	-12.20	30.47	46.00	-15.53	57	100	Peak
559.62	40.72	-11.01	29.71	46.00	-16.29	336	100	Peak

Remark:

1. *Quasi-peak test would be performed if the peak result were greater than the quasi-peak limit.*
2. *Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB) – PreAmp.Gain (dB)*
3. *Result (dBuV/m) = Reading (dBuV) + Correction Factor (dB/m)*
4. *Margin (dB) = Remark result (dBuV/m) - Quasi-peak limit (dBuV/m)*

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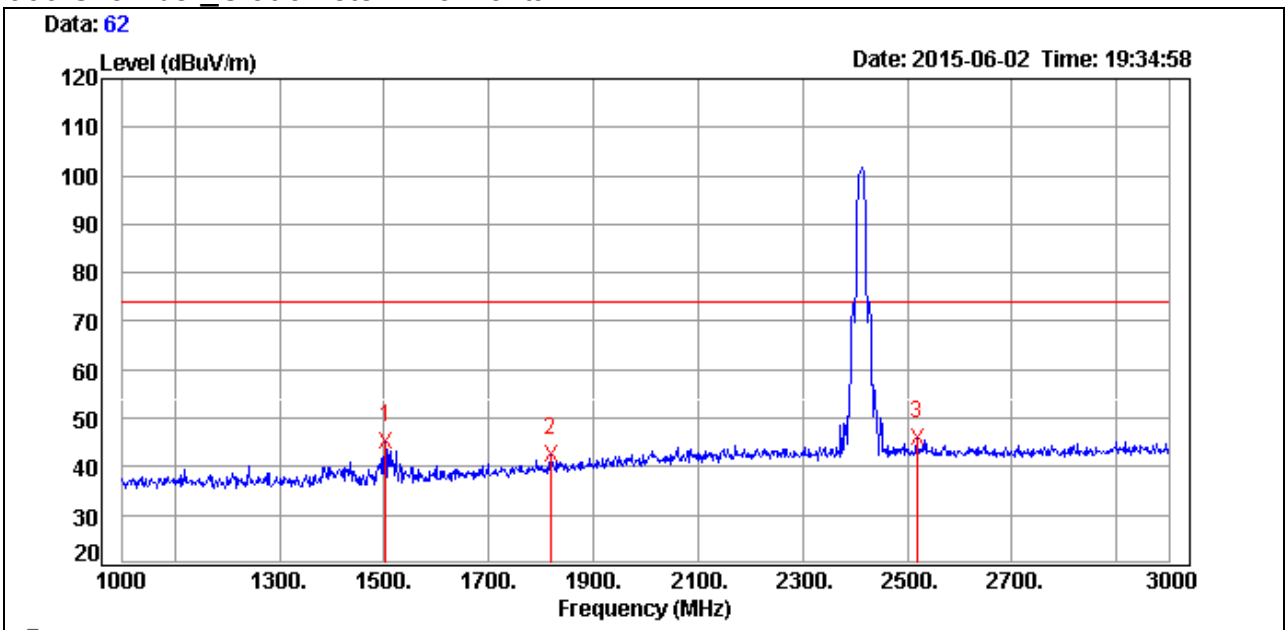
Above 1 GHz

Product Name	Computer	Test By	Waternil Guan
Test Model	POC127	Test Date	2015/06/02
Test Mode	IEEE 802.11b TX / CH Low	Temp. & Humidity	26°C, 52%

966 Chamber_C at 3Meter / Horizontal



Trace:

Freq. MHz	Reading dBuV	C.F. dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Azimuth deg	Height cm	Remark
1502.00	46.23	-0.97	45.26	74.00	-28.74	59	150	Peak
1818.00	40.69	1.77	42.46	74.00	-31.54	281	150	Peak
2518.00	41.53	4.37	45.90	74.00	-28.10	331	200	Peak

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Average test would be performed if the peak result were greater than the average limit.*
3. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
4. *Result = Reading + Correction Factor*
   Margin = Result – Limit
   Remark Peak = Result(PK) – Limit(PK)
   Remark AVG = Result(AV) – Limit(AV)

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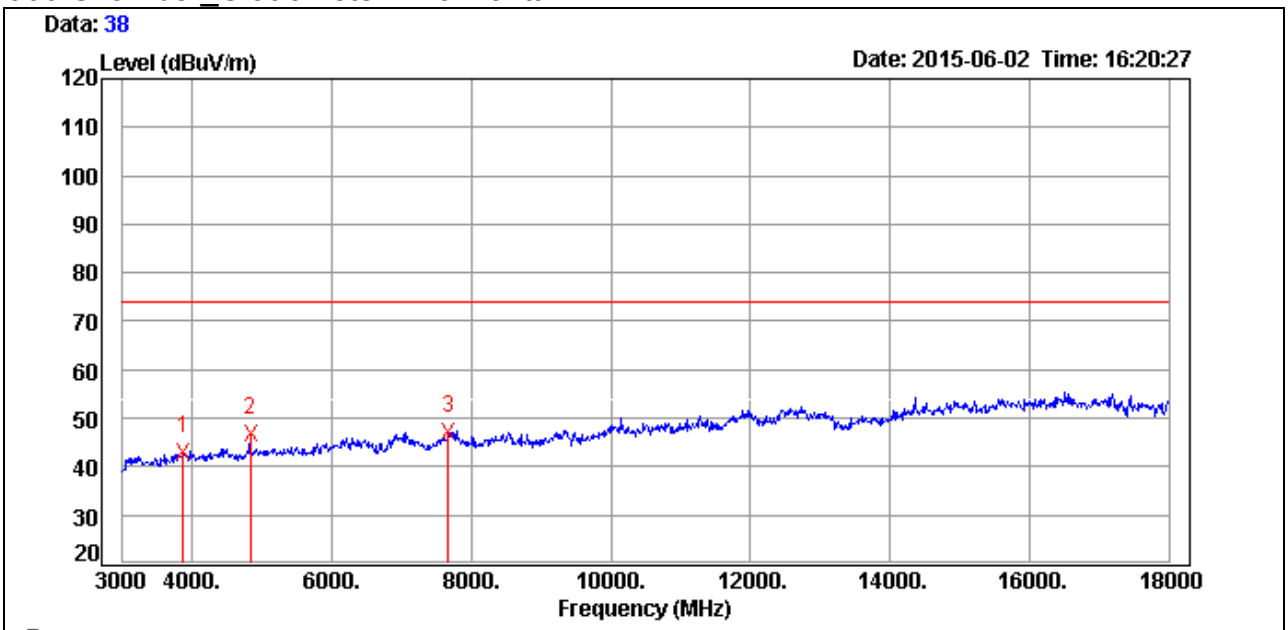
Product Name	Computer	Test By	Waternil Guan
Test Model	POC127	Test Date	2015/06/02
Test Mode	IEEE 802.11b TX / CH Low	Temp. & Humidity	26°C, 52%

966 Chamber_C at 3Meter / Horizontal



Trace:

Freq. MHz	Reading dBuV	C.F. dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Azimuth deg	Height cm	Remark
3870.00	45.75	-2.66	43.09	74.00	-30.91	86	300	Peak
4830.00	47.37	-0.52	46.85	74.00	-27.15	360	200	Peak
7665.00	44.33	3.04	47.37	74.00	-26.63	93	400	Peak

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Average test would be performed if the peak result were greater than the average limit.*
3. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
4. *Result = Reading + Correction Factor*
   Margin = Result – Limit
   Remark Peak = Result(PK) – Limit(PK)
   Remark AVG = Result(AV) – Limit(AV)
5. *There is no emission in 18GHz ~ 26.5GHz.*

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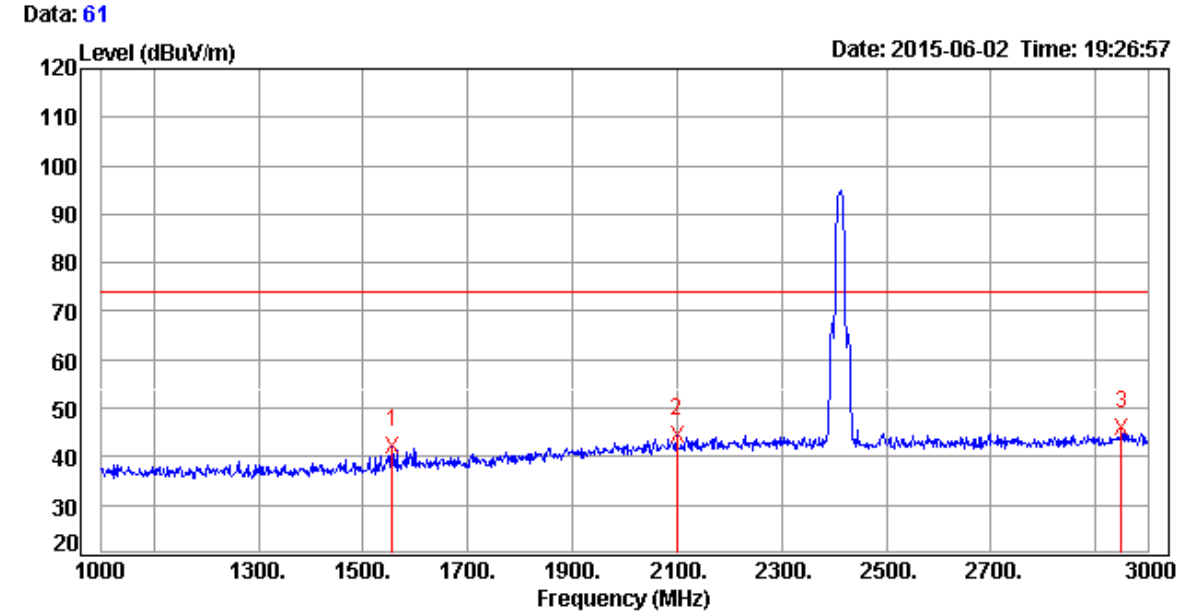
Product Name	Computer	Test By	Waternil Guan
Test Model	POC127	Test Date	2015/06/02
Test Mode	IEEE 802.11b TX / CH Low	Temp. & Humidity	26°C, 52%

966 Chamber_C at 3Meter / Vertical



Trace:

Freq. MHz	Reading dBuV	C.F. dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Azimuth deg	Height cm	Remark
1556.00	42.72	-0.50	42.22	74.00	-31.78	189	150	Peak
2100.00	40.80	3.54	44.34	74.00	-29.66	325	200	Peak
2950.00	40.69	5.46	46.15	74.00	-27.85	2	100	Peak

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Average test would be performed if the peak result were greater than the average limit.*
3. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
4. *Result = Reading + Correction Factor*
   Margin = Result – Limit
   Remark Peak = Result(PK) – Limit(PK)
   Remark AVG = Result(AV) – Limit(AV)

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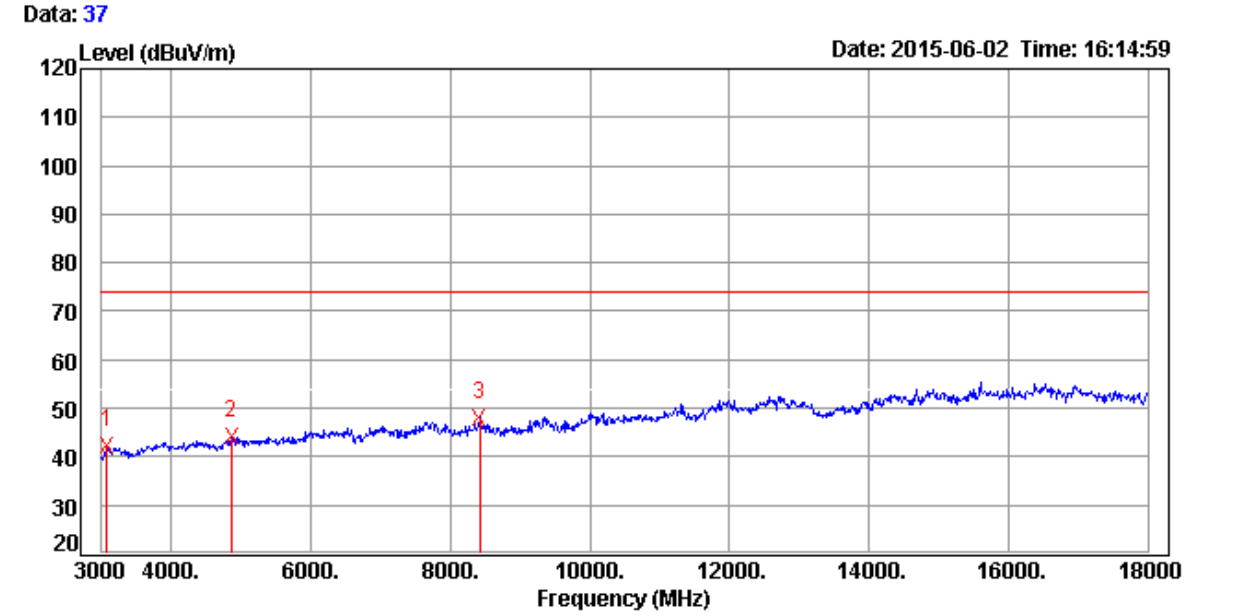
Product Name	Computer	Test By	Waternil Guan
Test Model	POC127	Test Date	2015/06/02
Test Mode	IEEE 802.11b TX / CH Low	Temp. & Humidity	26°C, 52%

966 Chamber_C at 3Meter / Vertical



Trace:

Freq. MHz	Reading dBuV	C.F. dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Azimuth deg	Height cm	Remark
3075.00	45.79	-3.36	42.43	74.00	-31.57	346	300	Peak
4860.00	44.49	-0.45	44.04	74.00	-29.96	18	300	Peak
8415.00	44.30	3.70	48.00	74.00	-26.00	229	100	Peak

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Average test would be performed if the peak result were greater than the average limit.*
3. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
4. *Result = Reading + Correction Factor*
   Margin = Result – Limit
   Remark Peak = Result(PK) – Limit(PK)
   Remark AVG = Result(AV) – Limit(AV)
5. *There is no emission in 18GHz ~ 26.5GHz.*

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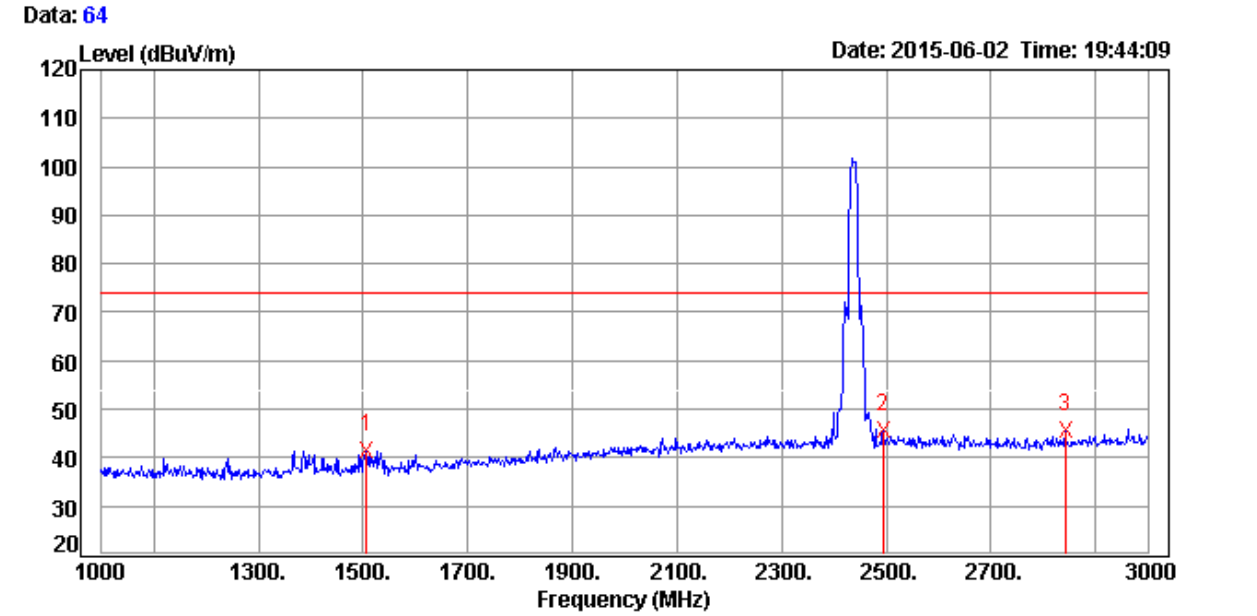
Product Name	Computer	Test By	Waternil Guan
Test Model	POC127	Test Date	2015/06/02
Test Mode	IEEE 802.11b TX / CH Middle	Temp. & Humidity	26°C, 52%

966 Chamber_C at 3Meter / Horizontal



Trace:

Freq. MHz	Reading dBuV	C.F. dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Azimuth deg	Height cm	Remark
1506.00	42.41	-0.94	41.47	74.00	-32.53	2	150	Peak
2494.00	41.24	4.31	45.55	74.00	-28.45	360	200	Peak
2842.00	40.37	5.19	45.56	74.00	-28.44	70	100	Peak

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Average test would be performed if the peak result were greater than the average limit.*
3. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
4. *Result = Reading + Correction Factor*
   Margin = Result – Limit
   Remark Peak = Result(PK) – Limit(PK)
   Remark AVG = Result(AV) – Limit(AV)

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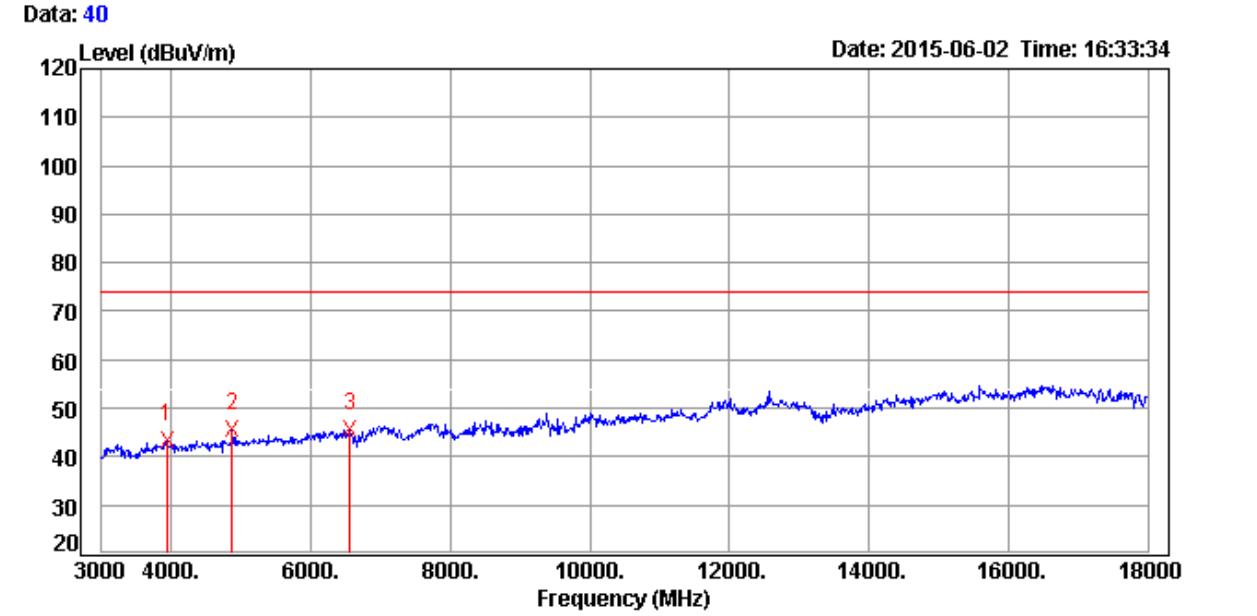
Product Name	Computer	Test By	Waternil Guan
Test Model	POC127	Test Date	2015/06/02
Test Mode	IEEE 802.11b TX / CH Middle	Temp. & Humidity	26°C, 52%

966 Chamber_C at 3Meter / Horizontal



Trace:

Freq. MHz	Reading dBuV	C.F. dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Azimuth deg	Height cm	Remark
3930.00	45.81	-2.57	43.24	74.00	-30.76	310	300	Peak
4875.00	46.02	-0.41	45.61	74.00	-28.39	28	300	Peak
6555.00	42.75	2.74	45.49	74.00	-28.51	215	100	Peak

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Average test would be performed if the peak result were greater than the average limit.*
3. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
4. *Result = Reading + Correction Factor*
   Margin = Result – Limit
   Remark Peak = Result(PK) – Limit(PK)
   Remark AVG = Result(AV) – Limit(AV)
5. *There is no emission in 18GHz ~ 26.5GHz.*

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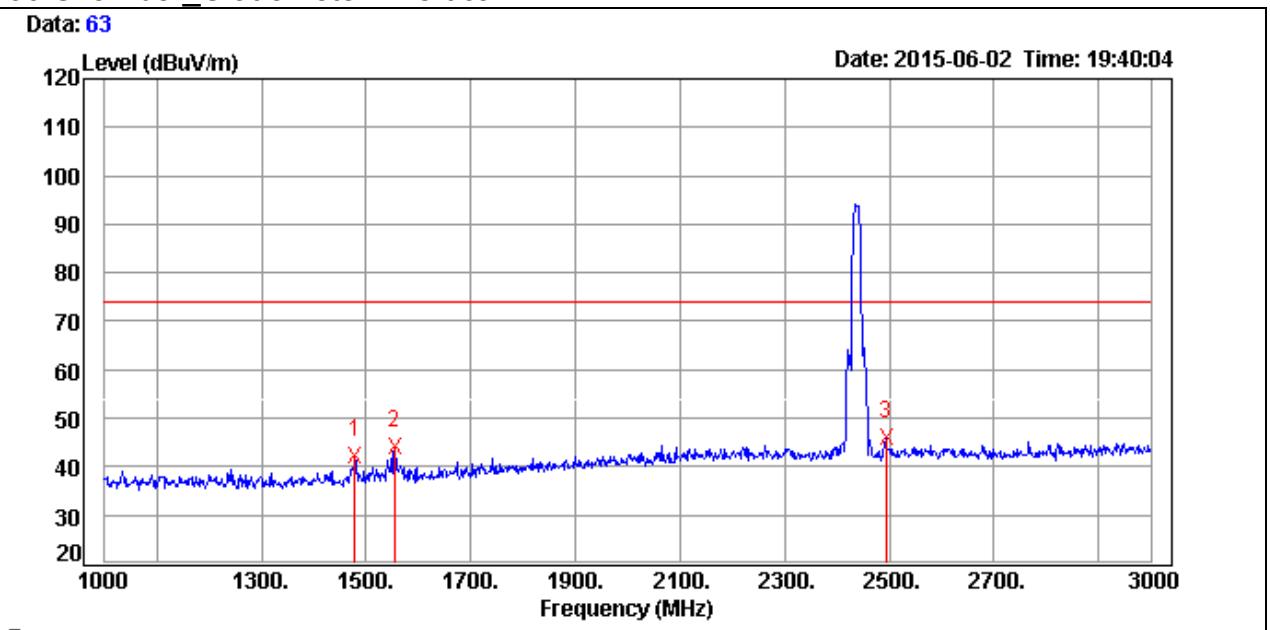
Product Name	Computer	Test By	Waternil Guan
Test Model	POC127	Test Date	2015/06/02
Test Mode	IEEE 802.11b TX / CH Middle	Temp. & Humidity	26°C, 52%

966 Chamber_C at 3Meter / Vertical



Trace:

Freq. MHz	Reading dBuV	C.F. dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Azimuth deg	Height cm	Remark
1478.00	43.27	-0.99	42.28	74.00	-31.72	194	150	Peak
1554.00	44.74	-0.52	44.22	74.00	-29.78	188	150	Peak
2494.00	41.55	4.31	45.86	74.00	-28.14	2	200	Peak

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Average test would be performed if the peak result were greater than the average limit.*
3. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
4. *Result = Reading + Correction Factor*
   Margin = Result – Limit
   Remark Peak = Result(PK) – Limit(PK)
   Remark AVG = Result(AV) – Limit(AV)

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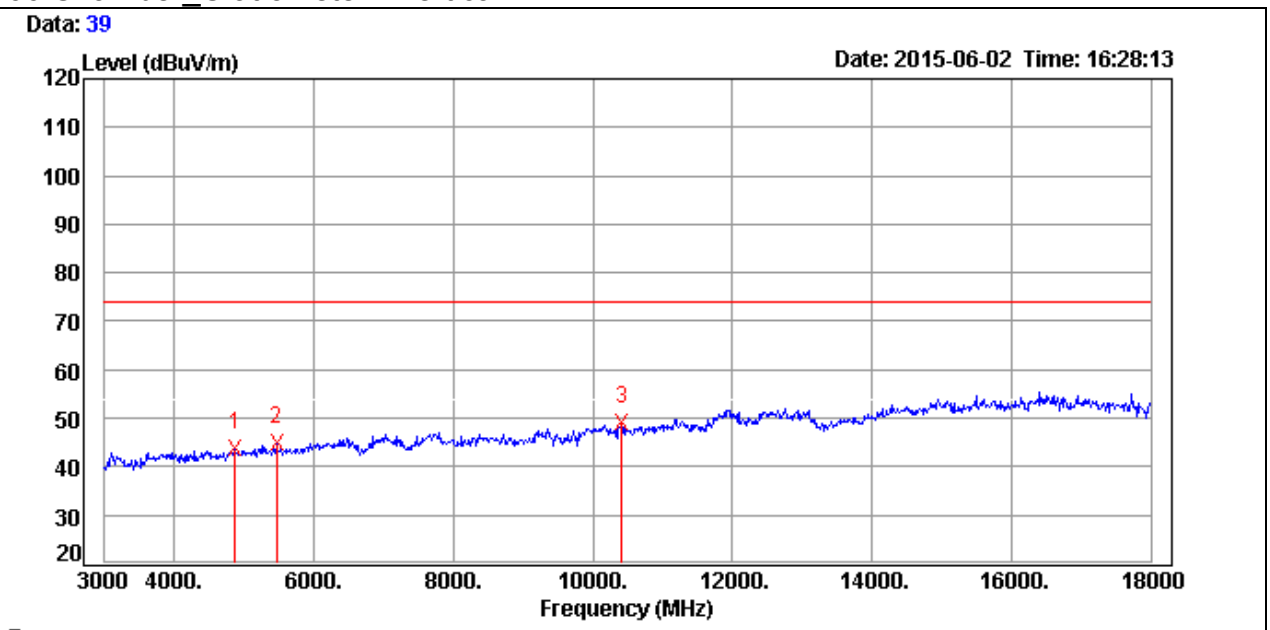
Product Name	Computer	Test By	Waternil Guan
Test Model	POC127	Test Date	2015/06/02
Test Mode	IEEE 802.11b TX / CH Middle	Temp. & Humidity	26°C, 52%

966 Chamber_C at 3Meter / Vertical



Trace:

Freq. MHz	Reading dBuV	C.F. dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Azimuth deg	Height cm	Remark
4875.00	44.00	-0.41	43.59	74.00	-30.41	57	300	Peak
5460.00	44.15	0.70	44.85	74.00	-29.15	30	100	Peak
10410.00	43.50	5.64	49.14	74.00	-24.86	79	300	Peak

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Average test would be performed if the peak result were greater than the average limit.*
3. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
4. *Result = Reading + Correction Factor*
   Margin = Result – Limit
   Remark Peak = Result(PK) – Limit(PK)
   Remark AVG = Result(AV) – Limit(AV)
5. *There is no emission in 18GHz ~ 26.5GHz.*

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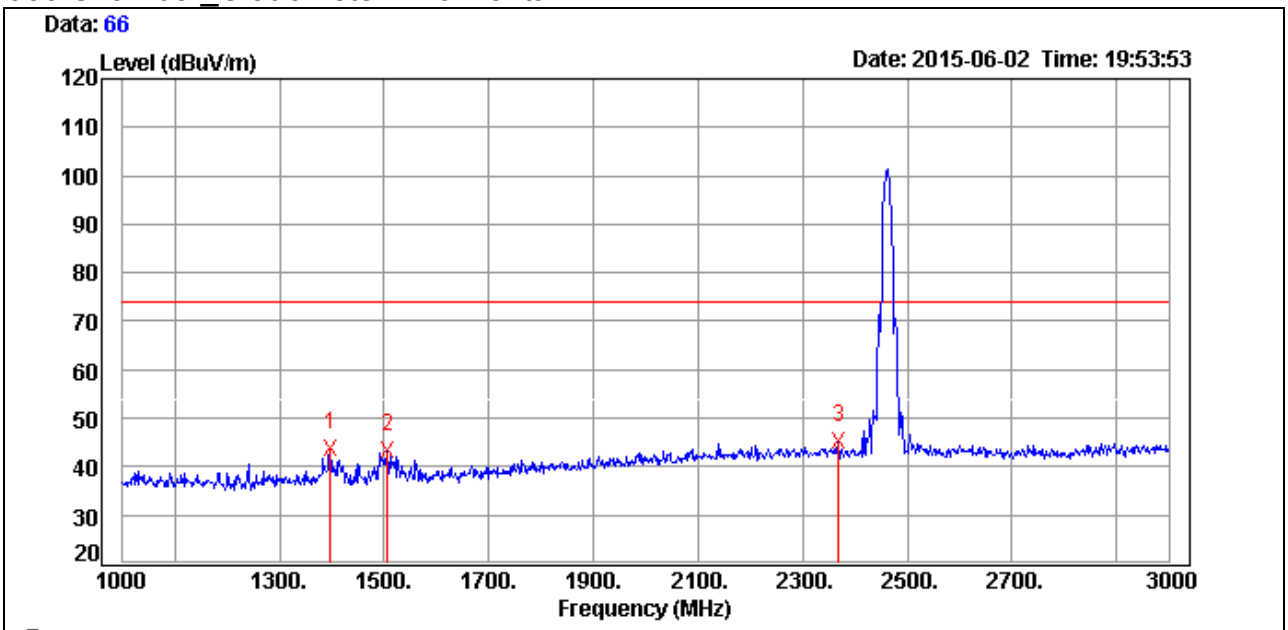
Product Name	Computer	Test By	Waternil Guan
Test Model	POC127	Test Date	2015/06/02
Test Mode	IEEE 802.11b TX / CH High	Temp. & Humidity	26°C, 52%

966 Chamber_C at 3Meter / Horizontal



Trace:

Freq. MHz	Reading dBuV	C.F. dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Azimuth deg	Height cm	Remark
1398.00	44.78	-0.97	43.81	74.00	-30.19	360	200	Peak
1506.00	44.26	-0.94	43.32	74.00	-30.68	54	200	Peak
2368.00	41.04	4.06	45.10	74.00	-28.90	360	100	Peak

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Average test would be performed if the peak result were greater than the average limit.*
3. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
4. *Result = Reading + Correction Factor*
   Margin = Result – Limit
   Remark Peak = Result(PK) – Limit(PK)
   Remark AVG = Result(AV) – Limit(AV)

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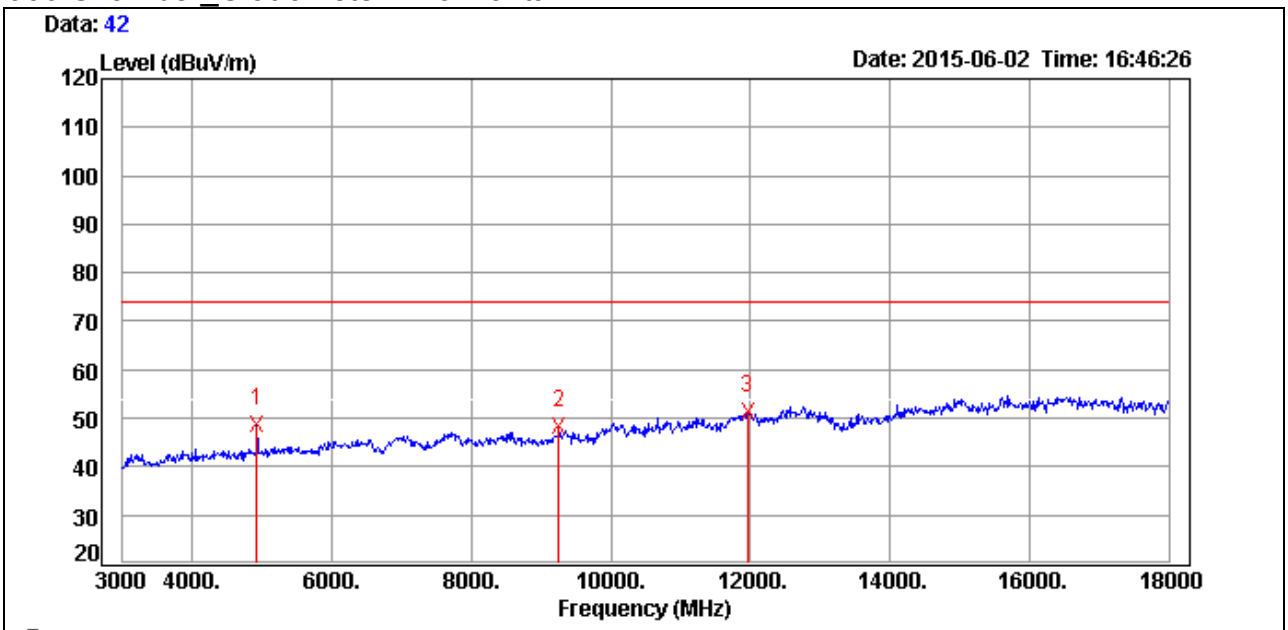
Product Name	Computer	Test By	Waternil Guan
Test Model	POC127	Test Date	2015/06/02
Test Mode	IEEE 802.11b TX / CH High	Temp. & Humidity	26°C, 52%

966 Chamber_C at 3Meter / Horizontal



Trace:

Freq. MHz	Reading dBuV	C.F. dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Azimuth deg	Height cm	Remark
4920.00	48.83	-0.31	48.52	74.00	-25.48	27	250	Peak
9255.00	44.39	4.08	48.47	74.00	-25.53	119	250	Peak
11955.00	43.37	8.13	51.50	74.00	-22.50	350	200	Peak

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Average test would be performed if the peak result were greater than the average limit.*
3. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
4. *Result = Reading + Correction Factor*
   Margin = Result – Limit
   Remark Peak = Result(PK) – Limit(PK)
   Remark AVG = Result(AV) – Limit(AV)
5. *There is no emission in 18GHz ~ 26.5GHz.*

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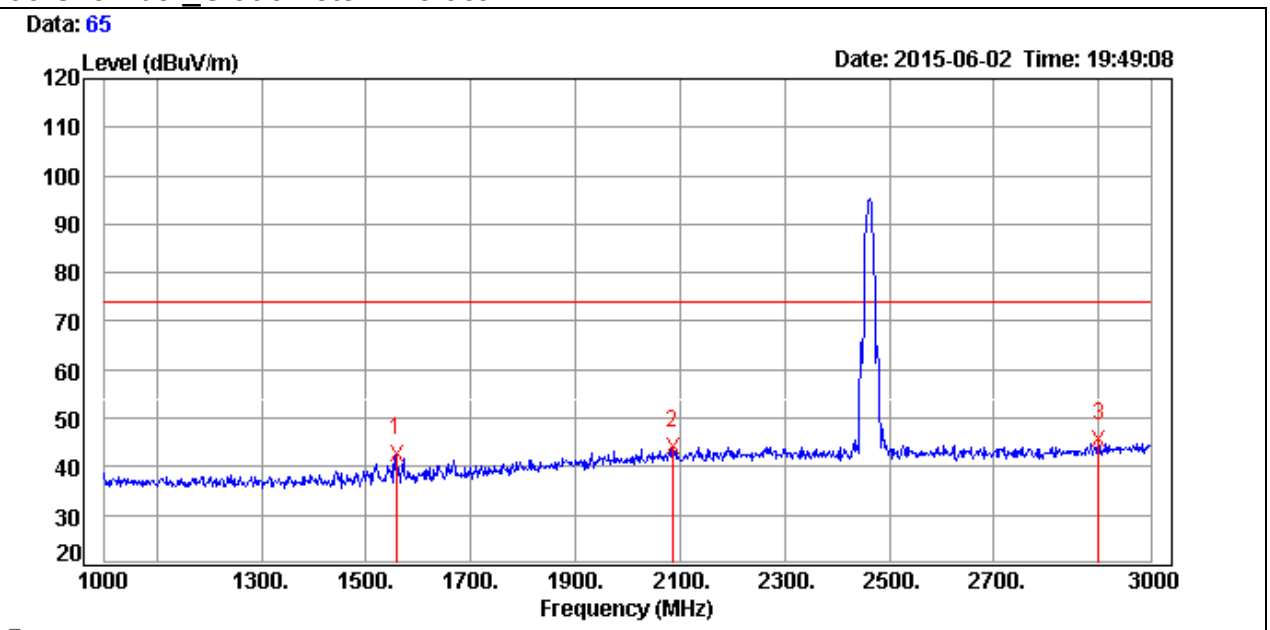
Product Name	Computer	Test By	Waternil Guan
Test Model	POC127	Test Date	2015/06/02
Test Mode	IEEE 802.11b TX / CH High	Temp. & Humidity	26°C, 52%

966 Chamber_C at 3Meter / Vertical



Trace:

Freq. MHz	Reading dBuV	C.F. dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Azimuth deg	Height cm	Remark
1558.00	42.96	-0.49	42.47	74.00	-31.53	173	150	Peak
2086.00	40.77	3.52	44.29	74.00	-29.71	36	100	Peak
2900.00	40.48	5.34	45.82	74.00	-28.18	134	100	Peak

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Average test would be performed if the peak result were greater than the average limit.*
3. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
4. *Result = Reading + Correction Factor*
   Margin = Result – Limit
   Remark Peak = Result(PK) – Limit(PK)
   Remark AVG = Result(AV) – Limit(AV)

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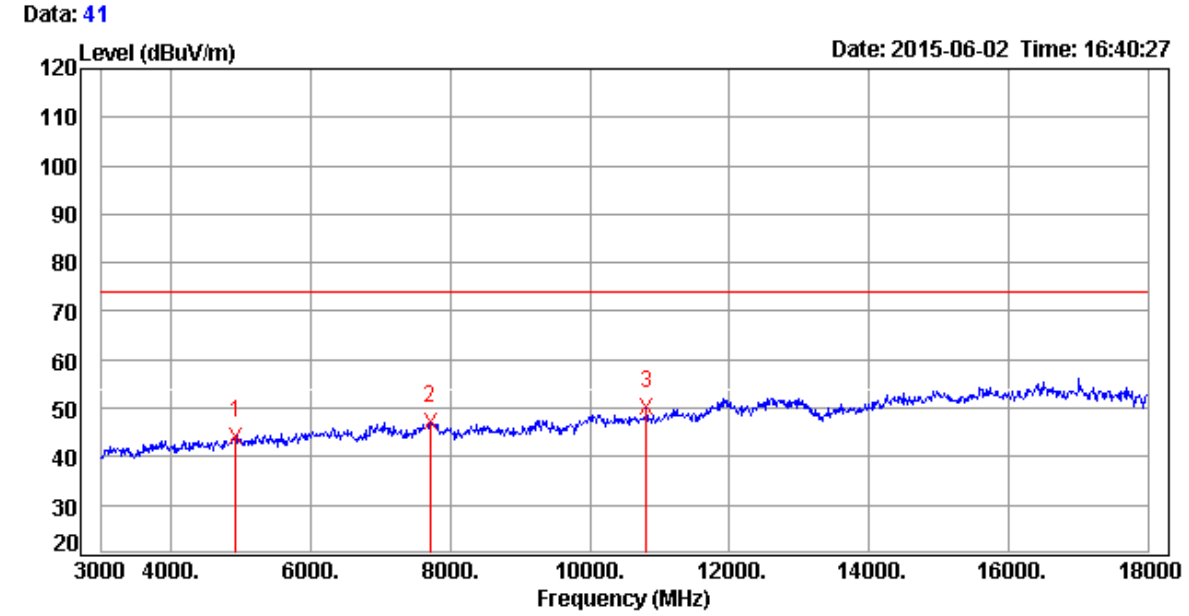
Product Name	Computer	Test By	Waternil Guan
Test Model	POC127	Test Date	2015/06/02
Test Mode	IEEE 802.11b TX / CH High	Temp. & Humidity	26°C, 52%

966 Chamber_C at 3Meter / Vertical



Trace:

Freq. MHz	Reading dBuV	C.F. dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Azimuth deg	Height cm	Remark
4920.00	44.54	-0.31	44.23	74.00	-29.77	311	100	Peak
7710.00	44.06	3.08	47.14	74.00	-26.86	160	250	Peak
10815.00	43.77	6.40	50.17	74.00	-23.83	104	300	Peak

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Average test would be performed if the peak result were greater than the average limit.*
3. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
4. *Result = Reading + Correction Factor*
   Margin = Result – Limit
   Remark Peak = Result(PK) – Limit(PK)
   Remark AVG = Result(AV) – Limit(AV)
5. *There is no emission in 18GHz ~ 26.5GHz.*

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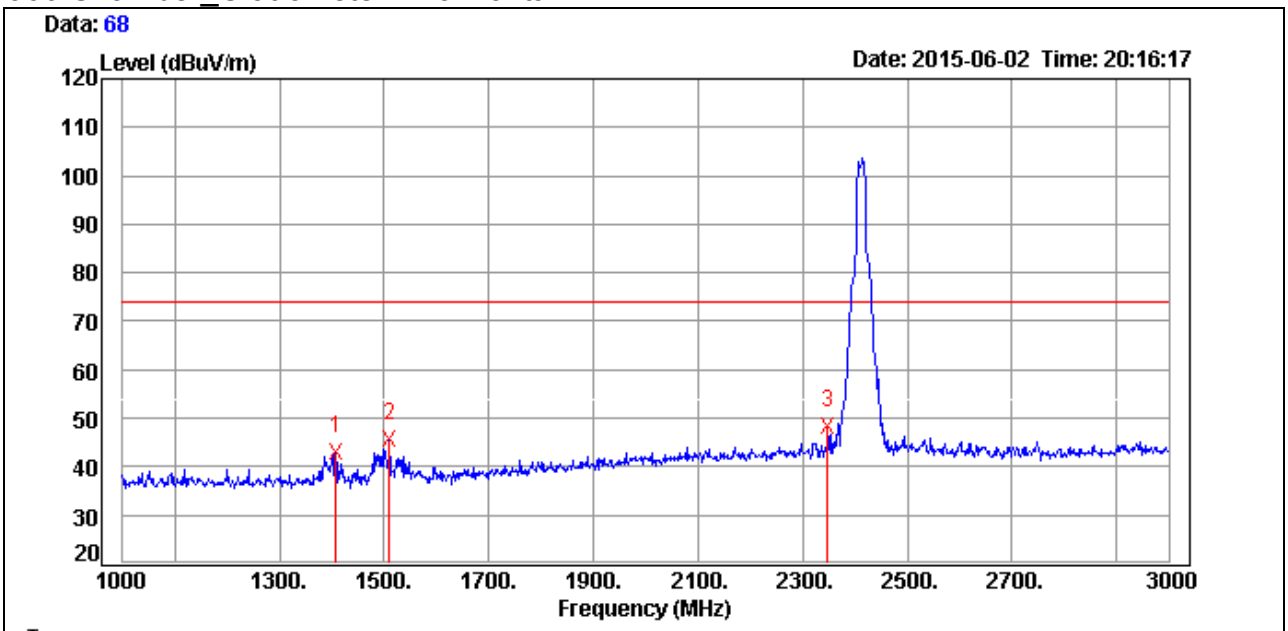
Product Name	Computer	Test By	Waternil Guan
Test Model	POC127	Test Date	2015/06/02
Test Mode	IEEE 802.11g TX / CH Low	Temp. & Humidity	26°C, 52%

966 Chamber_C at 3Meter / Horizontal



Trace:

Freq. MHz	Reading dBuV	C.F. dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Azimuth deg	Height cm	Remark
1408.00	43.82	-0.98	42.84	74.00	-31.16	48	150	Peak
1510.00	46.54	-0.90	45.64	74.00	-28.36	5	150	Peak
2348.00	44.37	4.03	48.40	74.00	-25.60	1	150	Peak

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Average test would be performed if the peak result were greater than the average limit.*
3. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
4. *Result = Reading + Correction Factor*
   Margin = Result – Limit
   Remark Peak = Result(PK) – Limit(PK)
   Remark AVG = Result(AV) – Limit(AV)

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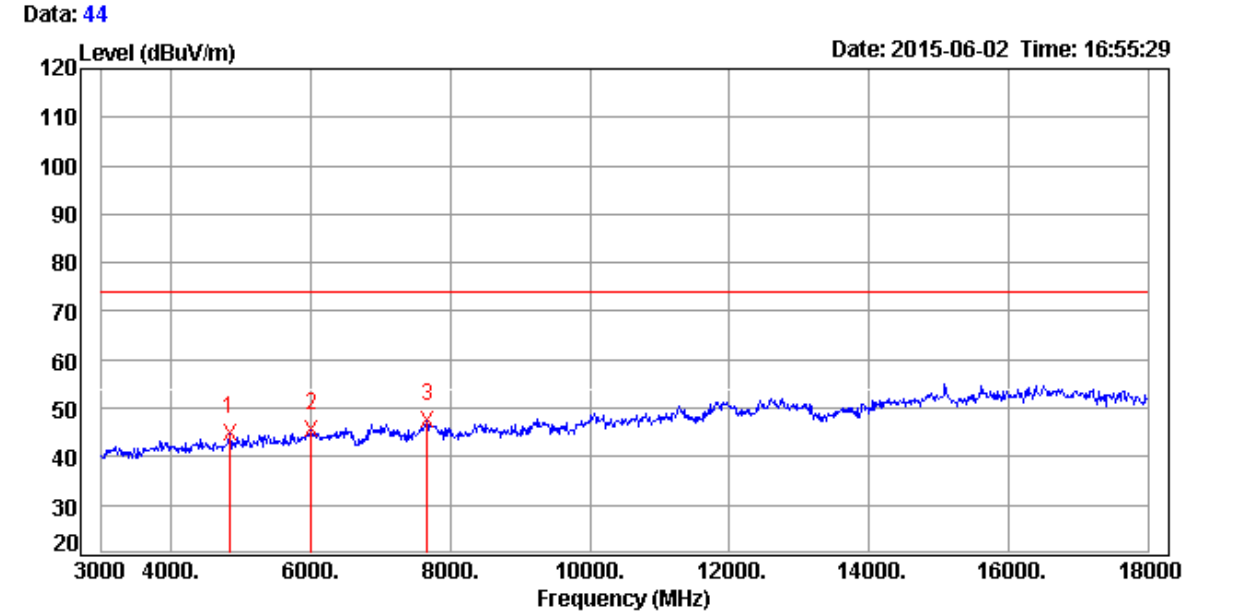
Product Name	Computer	Test By	Waternil Guan
Test Model	POC127	Test Date	2015/06/02
Test Mode	IEEE 802.11g TX / CH Low	Temp. & Humidity	26°C, 52%

966 Chamber_C at 3Meter / Horizontal



Trace:

Freq. MHz	Reading dBuV	C.F. dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Azimuth deg	Height cm	Remark
4830.00	45.27	-0.52	44.75	74.00	-29.25	70	150	Peak
6000.00	43.56	2.01	45.57	74.00	-28.43	180	200	Peak
7665.00	44.44	3.04	47.48	74.00	-26.52	149	100	Peak

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Average test would be performed if the peak result were greater than the average limit.*
3. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
4. *Result = Reading + Correction Factor*
   Margin = Result – Limit
   Remark Peak = Result(PK) – Limit(PK)
   Remark AVG = Result(AV) – Limit(AV)
5. *There is no emission in 18GHz ~ 26.5GHz.*

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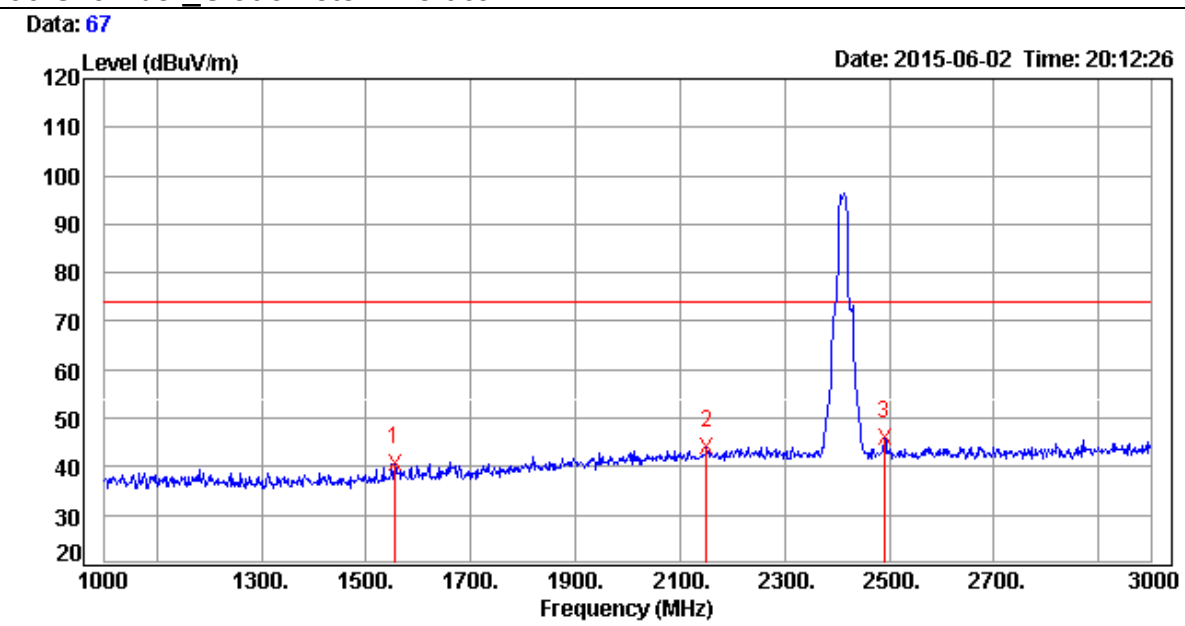
Product Name	Computer	Test By	Waternil Guan
Test Model	POC127	Test Date	2015/06/02
Test Mode	IEEE 802.11g TX / CH Low	Temp. & Humidity	26°C, 52%

966 Chamber_C at 3Meter / Vertical



Trace:

Freq. MHz	Reading dBuV	C.F. dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Azimuth deg	Height cm	Remark
1554.00	41.20	-0.52	40.68	74.00	-33.32	174	150	Peak
2150.00	40.48	3.64	44.12	74.00	-29.88	324	150	Peak
2490.00	41.67	4.30	45.97	74.00	-28.03	186	150	Peak

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Average test would be performed if the peak result were greater than the average limit.*
3. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
4. *Result = Reading + Correction Factor*
   Margin = Result – Limit
   Remark Peak = Result(PK) – Limit(PK)
   Remark AVG = Result(AV) – Limit(AV)

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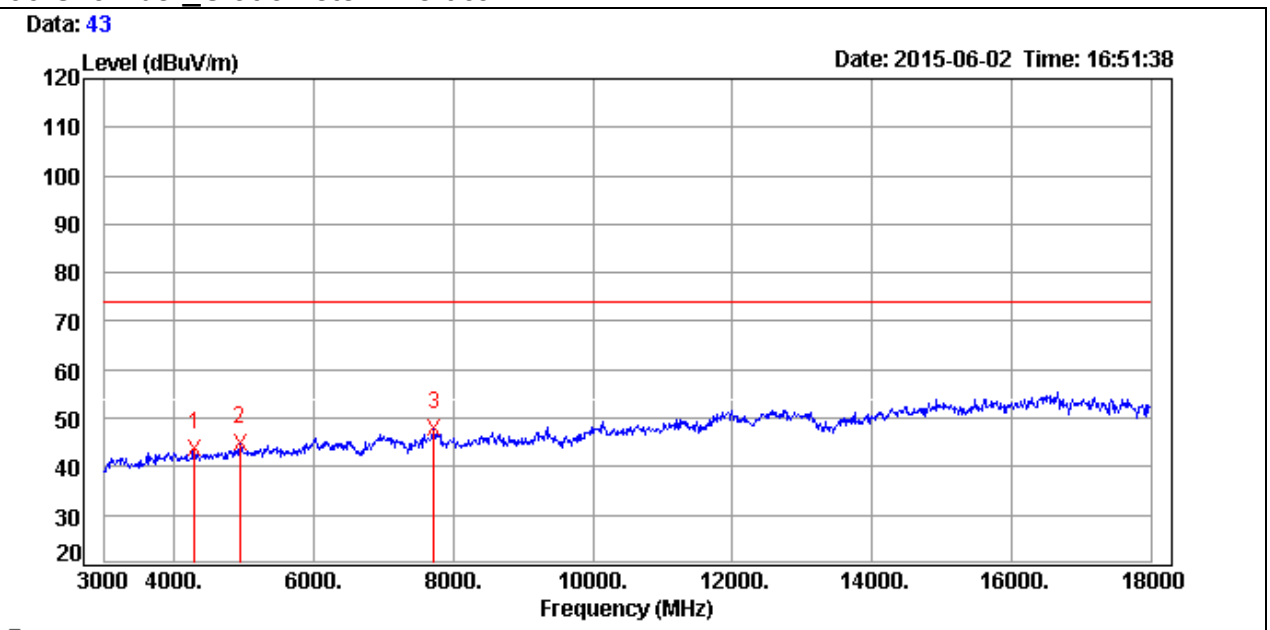
Product Name	Computer	Test By	Waternil Guan
Test Model	POC127	Test Date	2015/06/02
Test Mode	IEEE 802.11g TX / CH Low	Temp. & Humidity	26°C, 52%

966 Chamber_C at 3Meter / Vertical



Trace:

Freq. MHz	Reading dBuV	C.F. dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Azimuth deg	Height cm	Remark
4290.00	45.68	-1.79	43.89	74.00	-30.11	12	150	Peak
4935.00	45.12	-0.27	44.85	74.00	-29.15	310	100	Peak
7725.00	44.75	3.09	47.84	74.00	-26.16	1	100	Peak

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Average test would be performed if the peak result were greater than the average limit.*
3. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
4. *Result = Reading + Correction Factor*
   Margin = Result – Limit
   Remark Peak = Result(PK) – Limit(PK)
   Remark AVG = Result(AV) – Limit(AV)
5. *There is no emission in 18GHz ~ 26.5GHz.*

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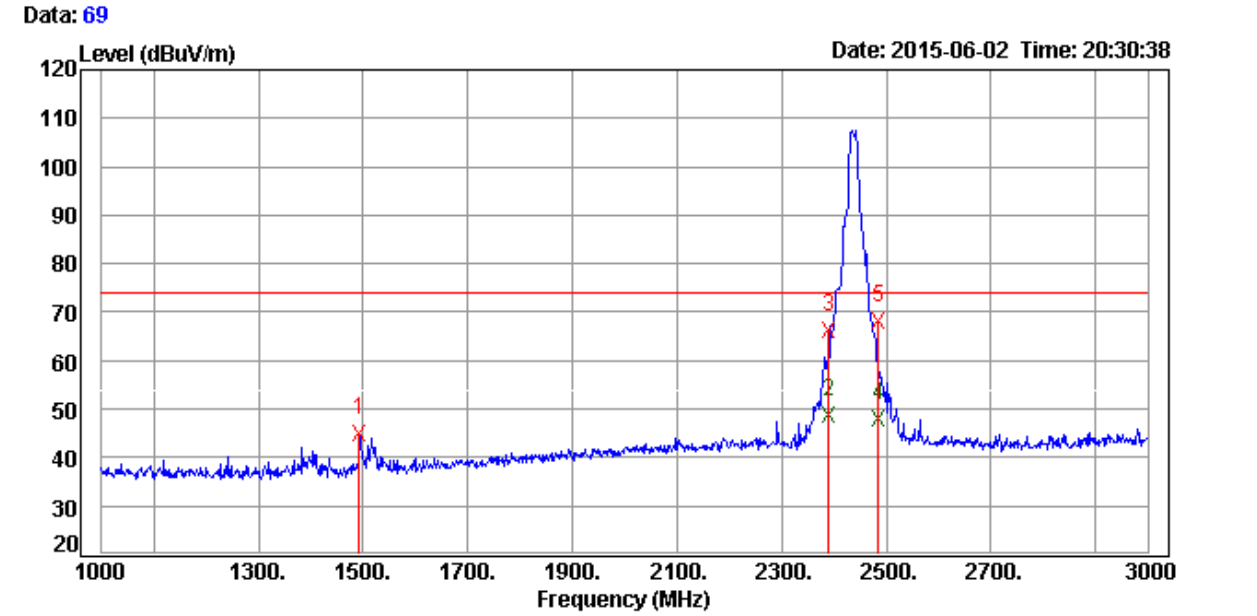
Product Name	Computer	Test By	Waternil Guan
Test Model	POC127	Test Date	2015/06/02
Test Mode	IEEE 802.11g TX / CH Middle	Temp. & Humidity	26°C, 52%

966 Chamber_C at 3Meter / Horizontal



Trace:

Freq. MHz	Reading dBuV	C.F. dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Azimuth deg	Height cm	Remark
1492.00	45.94	-0.99	44.95	74.00	-29.05	360	150	Peak
2390.00	44.73	4.11	48.84	54.00	-5.16	337	156	Average
2390.00	62.18	4.11	66.29	74.00	-7.71	337	156	Peak
2484.00	43.83	4.29	48.12	54.00	-5.88	8	185	Average
2484.00	63.81	4.29	68.10	74.00	-5.90	8	185	Peak

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Average test would be performed if the peak result were greater than the average limit.*
3. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
4. *Result = Reading + Correction Factor*
   Margin = Result – Limit
   Remark Peak = Result(PK) – Limit(PK)
   Remark AVG = Result(AV) – Limit(AV)

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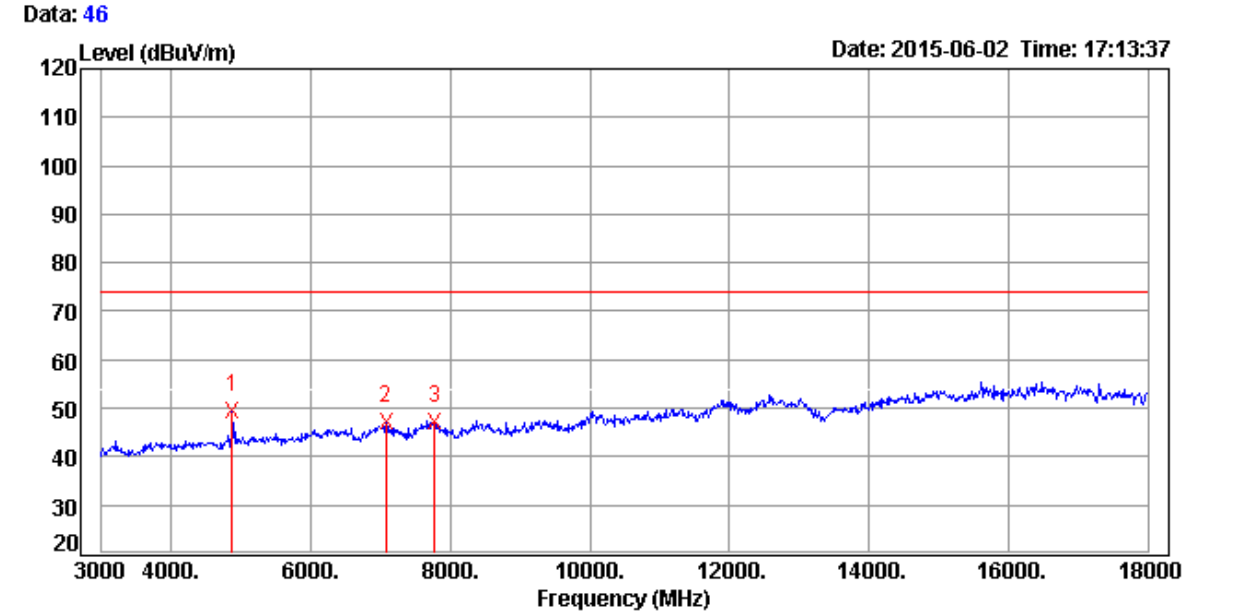
Product Name	Computer	Test By	Waternil Guan
Test Model	POC127	Test Date	2015/06/02
Test Mode	IEEE 802.11g TX / CH Middle	Temp. & Humidity	26°C, 52%

966 Chamber_C at 3Meter / Horizontal



Trace:

Freq. MHz	Reading dBuV	C.F. dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Azimuth deg	Height cm	Remark
4875.00	49.71	-0.41	49.30	74.00	-24.70	341	150	Peak
7080.00	44.31	2.73	47.04	74.00	-26.96	165	200	Peak
7770.00	44.13	3.12	47.25	74.00	-26.75	311	150	Peak

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Average test would be performed if the peak result were greater than the average limit.*
3. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
4. *Result = Reading + Correction Factor*
   Margin = Result – Limit
   Remark Peak = Result(PK) – Limit(PK)
   Remark AVG = Result(AV) – Limit(AV)
5. *There is no emission in 18GHz ~ 26.5GHz.*

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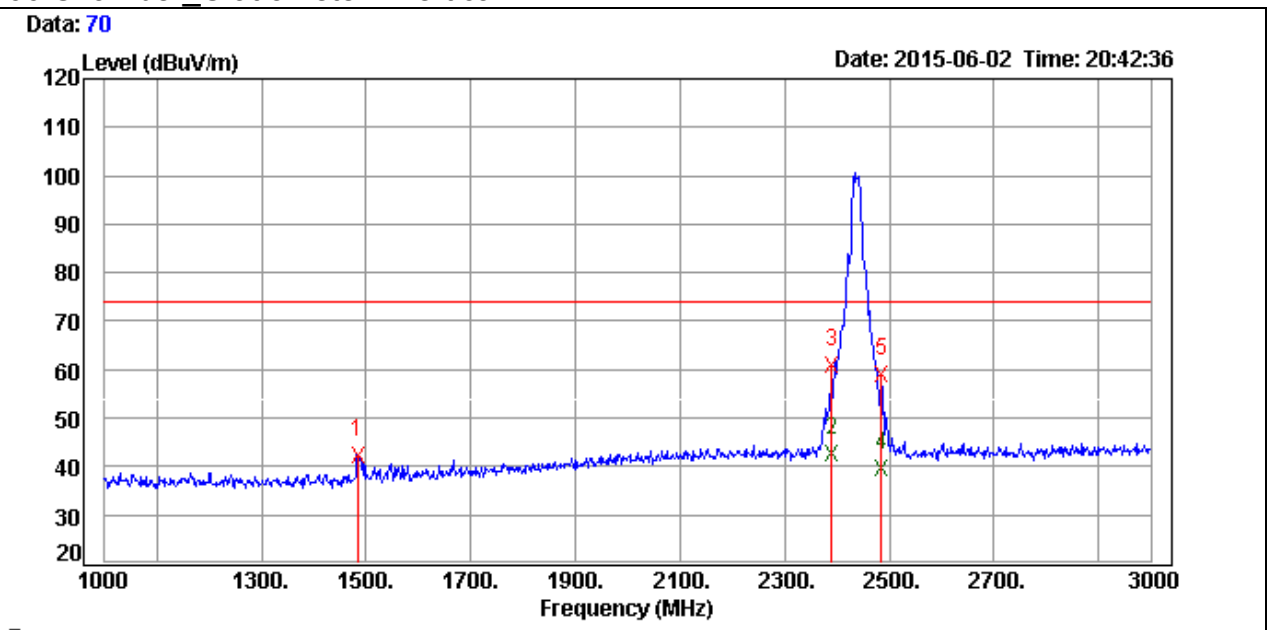
Product Name	Computer	Test By	Waternil Guan
Test Model	POC127	Test Date	2015/06/02
Test Mode	IEEE 802.11g TX / CH Middle	Temp. & Humidity	26°C, 52%

966 Chamber_C at 3Meter / Vertical



Trace:

Freq. MHz	Reading dBuV	C.F. dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Azimuth deg	Height cm	Remark
1484.00	43.25	-0.99	42.26	74.00	-31.74	210	150	Peak
2390.00	38.59	4.11	42.70	54.00	-11.30	27	100	Average
2390.00	56.78	4.11	60.89	74.00	-13.11	27	100	Peak
2484.00	35.35	4.29	39.64	54.00	-14.36	33	103	Average
2484.00	54.86	4.29	59.15	74.00	-14.85	33	103	Peak

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Average test would be performed if the peak result were greater than the average limit.*
3. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
4. *Result = Reading + Correction Factor*
   Margin = Result – Limit
   Remark Peak = Result(PK) – Limit(PK)
   Remark AVG = Result(AV) – Limit(AV)

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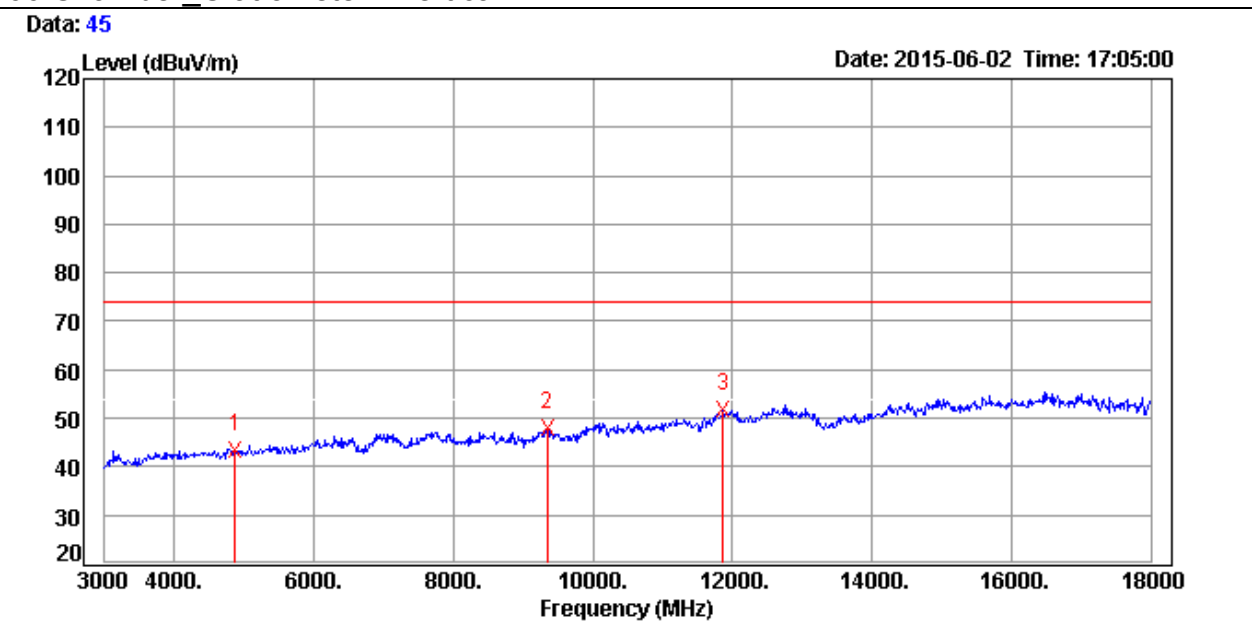
Product Name	Computer	Test By	Waternil Guan
Test Model	POC127	Test Date	2015/06/02
Test Mode	IEEE 802.11g TX / CH Middle	Temp. & Humidity	26°C, 52%

966 Chamber_C at 3Meter / Vertical



Trace:

Freq. MHz	Reading dBuV	C.F. dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Azimuth deg	Height cm	Remark
4875.00	43.95	-0.41	43.54	74.00	-30.46	48	300	Peak
9345.00	43.99	4.10	48.09	74.00	-25.91	50	400	Peak
11865.00	43.67	7.90	51.57	74.00	-22.43	57	200	Peak

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Average test would be performed if the peak result were greater than the average limit.*
3. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
4. *Result = Reading + Correction Factor*
   Margin = Result – Limit
   Remark Peak = Result(PK) – Limit(PK)
   Remark AVG = Result(AV) – Limit(AV)
5. *There is no emission in 18GHz ~ 26.5GHz.*

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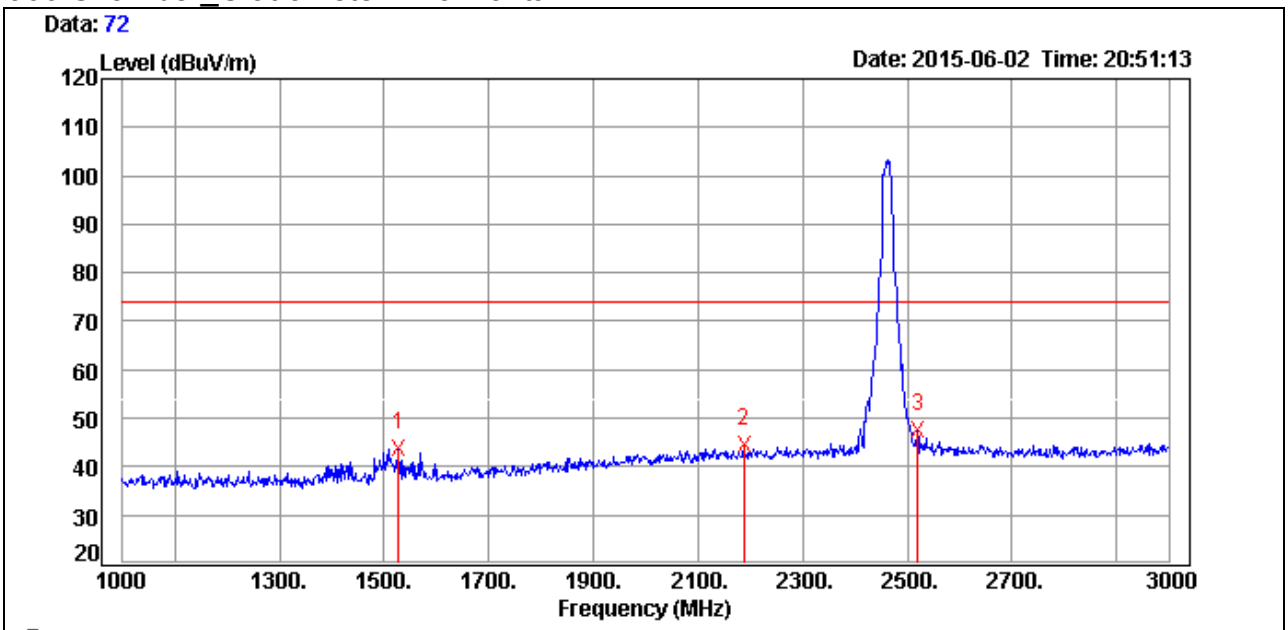
Product Name	Computer	Test By	Waternil Guan
Test Model	POC127	Test Date	2015/06/02
Test Mode	IEEE 802.11g TX / CH High	Temp. & Humidity	26°C, 52%

966 Chamber_C at 3Meter / Horizontal



Trace:

Freq. MHz	Reading dBuV	C.F. dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Azimuth deg	Height cm	Remark
1528.00	44.51	-0.75	43.76	74.00	-30.24	0	200	Peak
2188.00	40.87	3.71	44.58	74.00	-29.42	65	200	Peak
2520.00	43.10	4.37	47.47	74.00	-26.53	325	200	Peak

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Average test would be performed if the peak result were greater than the average limit.*
3. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
4. *Result = Reading + Correction Factor*
   Margin = Result – Limit
   Remark Peak = Result(PK) – Limit(PK)
   Remark AVG = Result(AV) – Limit(AV)

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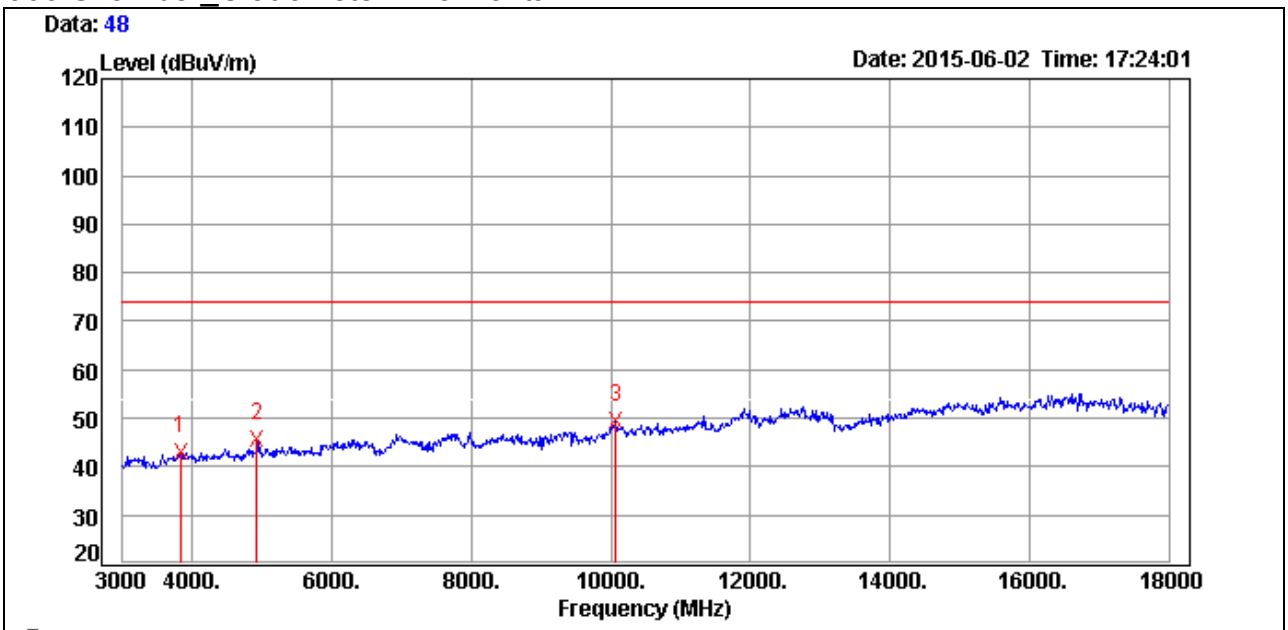
Product Name	Computer	Test By	Waternil Guan
Test Model	POC127	Test Date	2015/06/02
Test Mode	IEEE 802.11g TX / CH High	Temp. & Humidity	26°C, 52%

966 Chamber_C at 3Meter / Horizontal



Trace:

Freq. MHz	Reading dBuV	C.F. dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Azimuth deg	Height cm	Remark
3825.00	45.83	-2.73	43.10	74.00	-30.90	51	150	Peak
4920.00	46.06	-0.31	45.75	74.00	-28.25	21	200	Peak
10065.00	44.17	5.12	49.29	74.00	-24.71	232	200	Peak

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Average test would be performed if the peak result were greater than the average limit.*
3. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
4. *Result = Reading + Correction Factor*
   Margin = Result – Limit
   Remark Peak = Result(PK) – Limit(PK)
   Remark AVG = Result(AV) – Limit(AV)
5. *There is no emission in 18GHz ~ 26.5GHz.*

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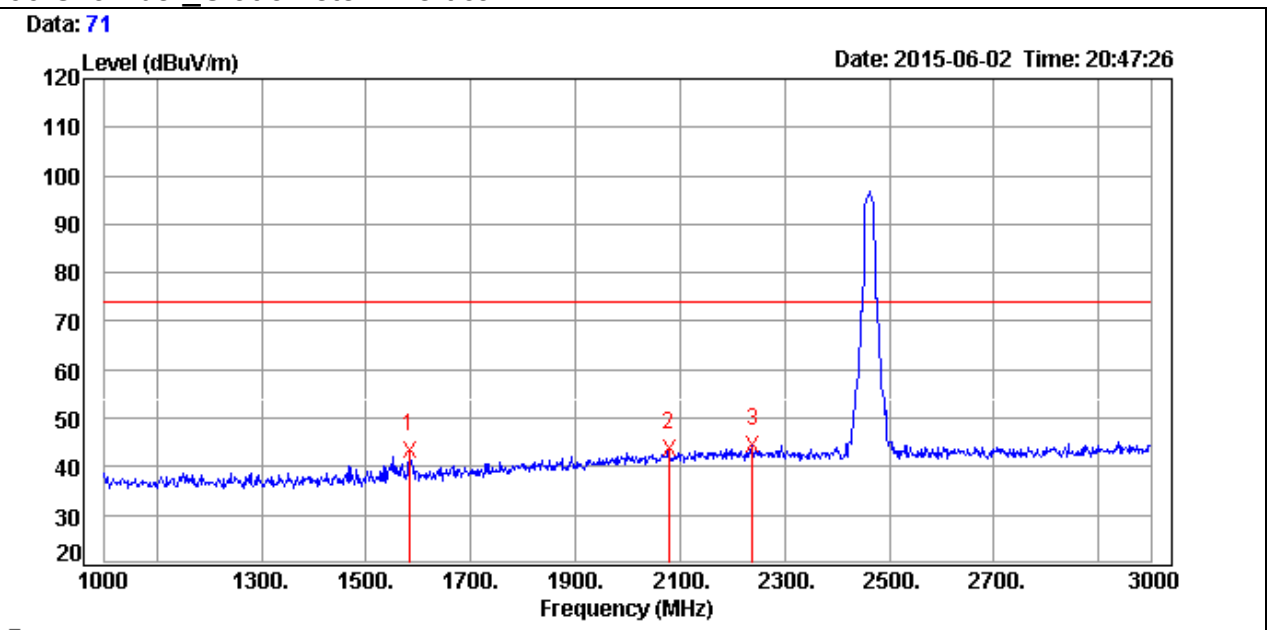
Product Name	Computer	Test By	Waternil Guan
Test Model	POC127	Test Date	2015/06/02
Test Mode	IEEE 802.11g TX / CH High	Temp. & Humidity	26°C, 52%

966 Chamber_C at 3Meter / Vertical



Trace:

Freq. MHz	Reading dBuV	C.F. dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Azimuth deg	Height cm	Remark
1582.00	43.69	-0.28	43.41	74.00	-30.59	184	150	Peak
2078.00	40.34	3.50	43.84	74.00	-30.16	276	100	Peak
2238.00	40.54	3.81	44.35	74.00	-29.65	7	200	Peak

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Average test would be performed if the peak result were greater than the average limit.*
3. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
4. *Result = Reading + Correction Factor*
   Margin = Result – Limit
   Remark Peak = Result(PK) – Limit(PK)
   Remark AVG = Result(AV) – Limit(AV)

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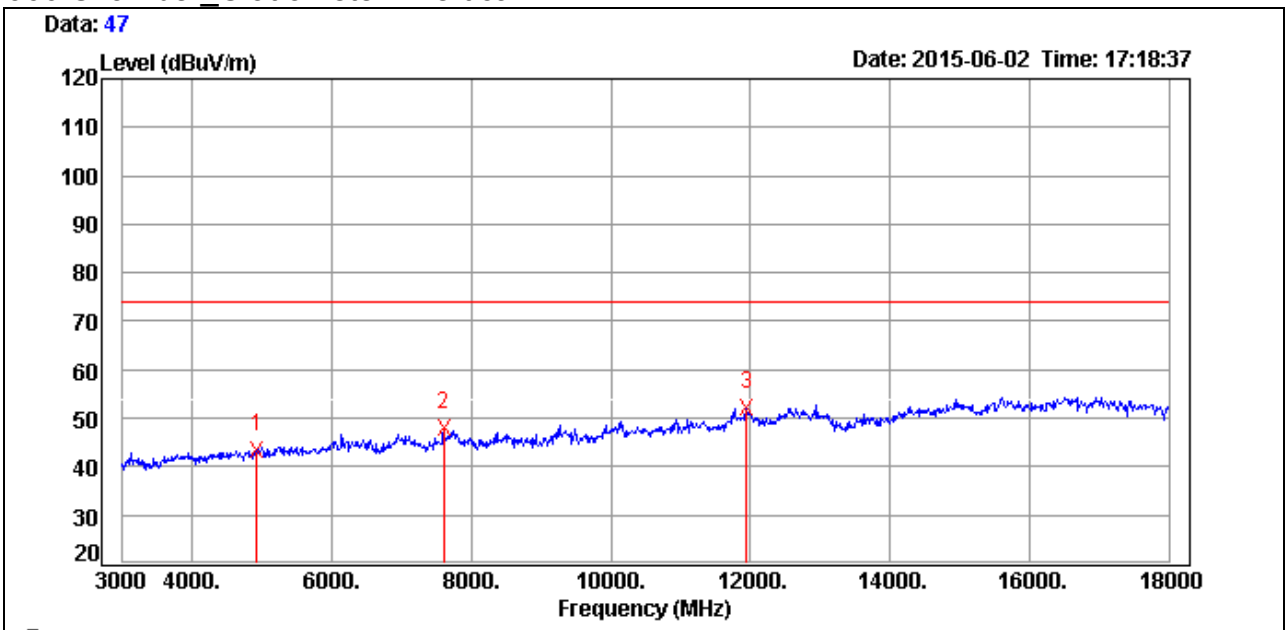
Product Name	Computer	Test By	Waternil Guan
Test Model	POC127	Test Date	2015/06/02
Test Mode	IEEE 802.11g TX / CH High	Temp. & Humidity	26°C, 52%

966 Chamber_C at 3Meter / Vertical



Trace:

Freq. MHz	Reading dBuV	C.F. dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Azimuth deg	Height cm	Remark
4920.00	43.68	-0.31	43.37	74.00	-30.63	155	150	Peak
7605.00	44.99	3.00	47.99	74.00	-26.01	192	200	Peak
11940.00	43.97	8.09	52.06	74.00	-21.94	117	200	Peak

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Average test would be performed if the peak result were greater than the average limit.*
3. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
4. *Result = Reading + Correction Factor*
   Margin = Result – Limit
   Remark Peak = Result(PK) – Limit(PK)
   Remark AVG = Result(AV) – Limit(AV)
5. *There is no emission in 18GHz ~ 26.5GHz*

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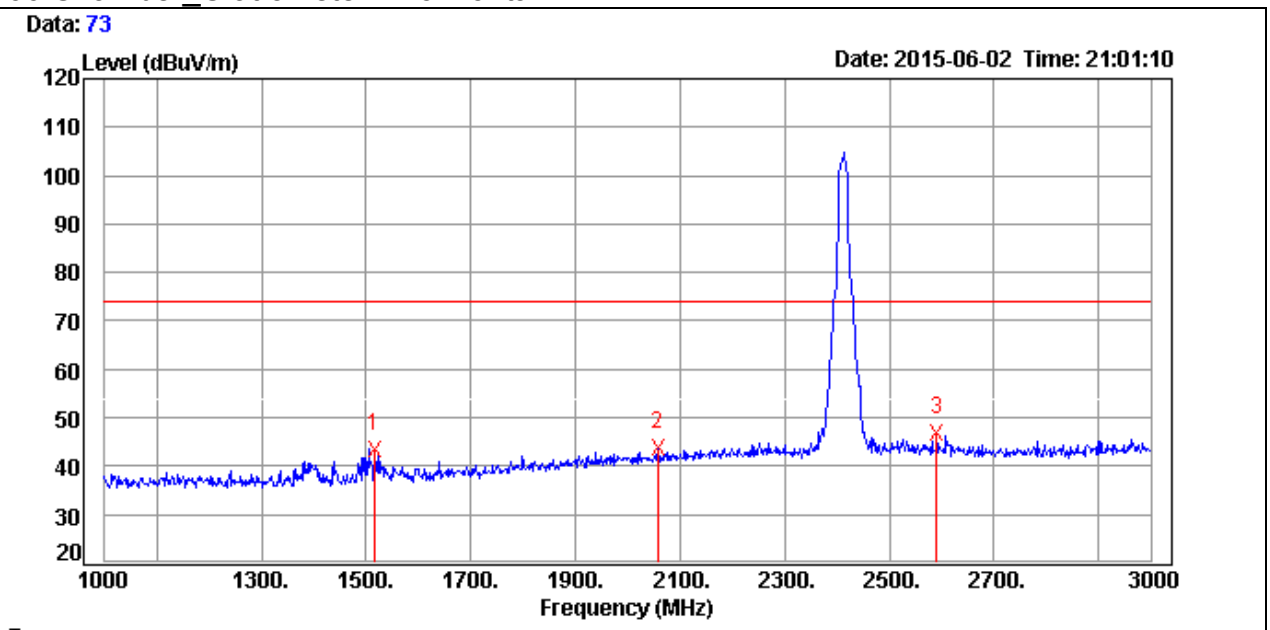
Product Name	Computer	Test By	Waternil Guan
Test Model	POC127	Test Date	2015/06/02
Test Mode	IEEE 802.11gn HT20 TX / CH Low	Temp. & Humidity	26°C, 52%

966 Chamber_C at 3Meter / Horizontal



Trace:

Freq. MHz	Reading dBuV	C.F. dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Azimuth deg	Height cm	Remark
1516.00	44.37	-0.85	43.52	74.00	-30.48	333	200	Peak
2058.00	40.12	3.46	43.58	74.00	-30.42	172	200	Peak
2590.00	42.39	4.55	46.94	74.00	-27.06	51	150	Peak

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Average test would be performed if the peak result were greater than the average limit.*
3. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
4. *Result = Reading + Correction Factor*
   Margin = Result – Limit
   Remark Peak = Result(PK) – Limit(PK)
   Remark AVG = Result(AV) – Limit(AV)

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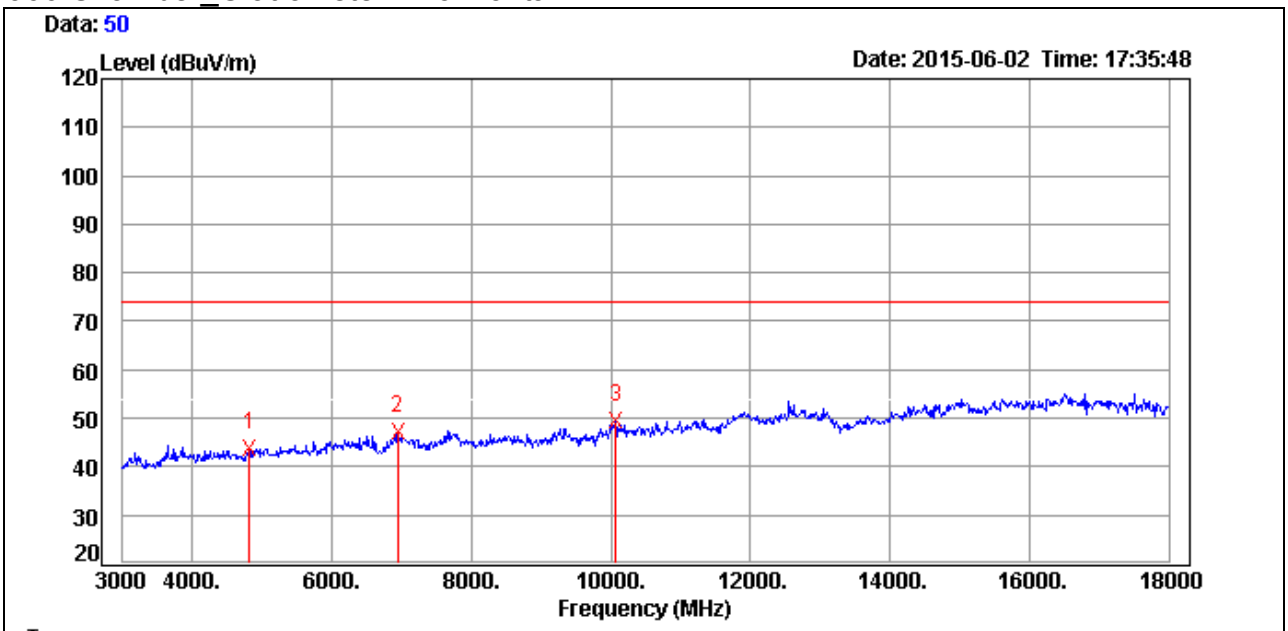
Product Name	Computer	Test By	Waternil Guan
Test Model	POC127	Test Date	2015/06/02
Test Mode	IEEE 802.11gn HT20 TX / CH Low	Temp. & Humidity	26°C, 52%

966 Chamber_C at 3Meter / Horizontal



Trace:

Freq. MHz	Reading dBuV	C.F. dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Azimuth deg	Height cm	Remark
4815.00	44.33	-0.55	43.78	74.00	-30.22	21	100	Peak
6945.00	44.64	2.70	47.34	74.00	-26.66	345	150	Peak
10065.00	44.22	5.12	49.34	74.00	-24.66	127	200	Peak

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Average test would be performed if the peak result were greater than the average limit.*
3. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
4. *Result = Reading + Correction Factor*
   Margin = Result – Limit
   Remark Peak = Result(PK) – Limit(PK)
   Remark AVG = Result(AV) – Limit(AV)
5. *There is no emission in 18GHz ~ 26.5GHz.*

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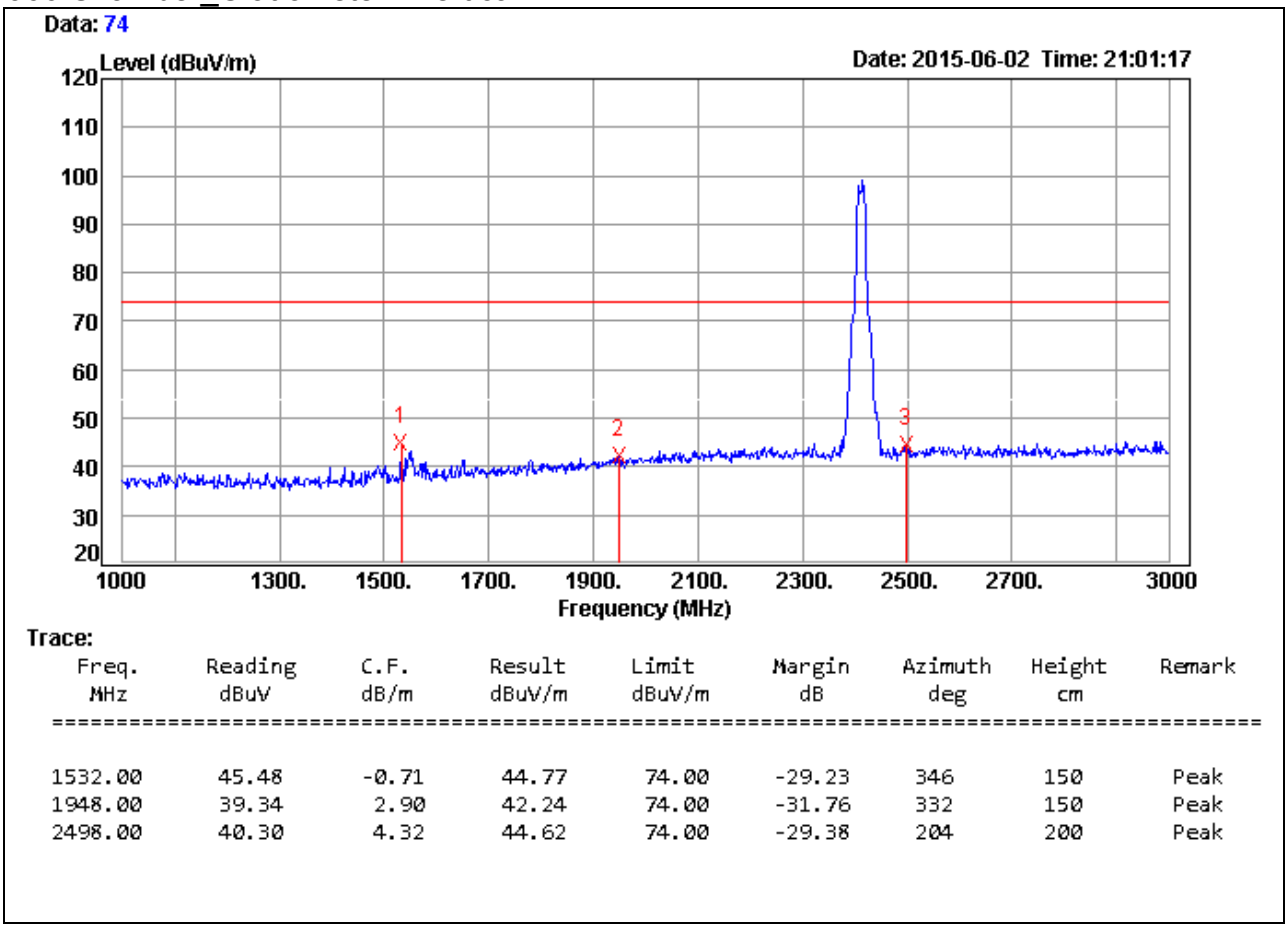
Product Name	Computer	Test By	Waternil Guan
Test Model	POC127	Test Date	2015/06/02
Test Mode	IEEE 802.11gn HT20 TX / CH Low	Temp. & Humidity	26°C, 52%

966 Chamber_C at 3Meter / Vertical



Trace:

Freq. MHz	Reading dBuV	C.F. dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Azimuth deg	Height cm	Remark
1532.00	45.48	-0.71	44.77	74.00	-29.23	346	150	Peak
1948.00	39.34	2.90	42.24	74.00	-31.76	332	150	Peak
2498.00	40.30	4.32	44.62	74.00	-29.38	204	200	Peak

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Average test would be performed if the peak result were greater than the average limit.*
3. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
4. *Result = Reading + Correction Factor*
   Margin = Result – Limit
   Remark Peak = Result(PK) – Limit(PK)
   Remark AVG = Result(AV) – Limit(AV)

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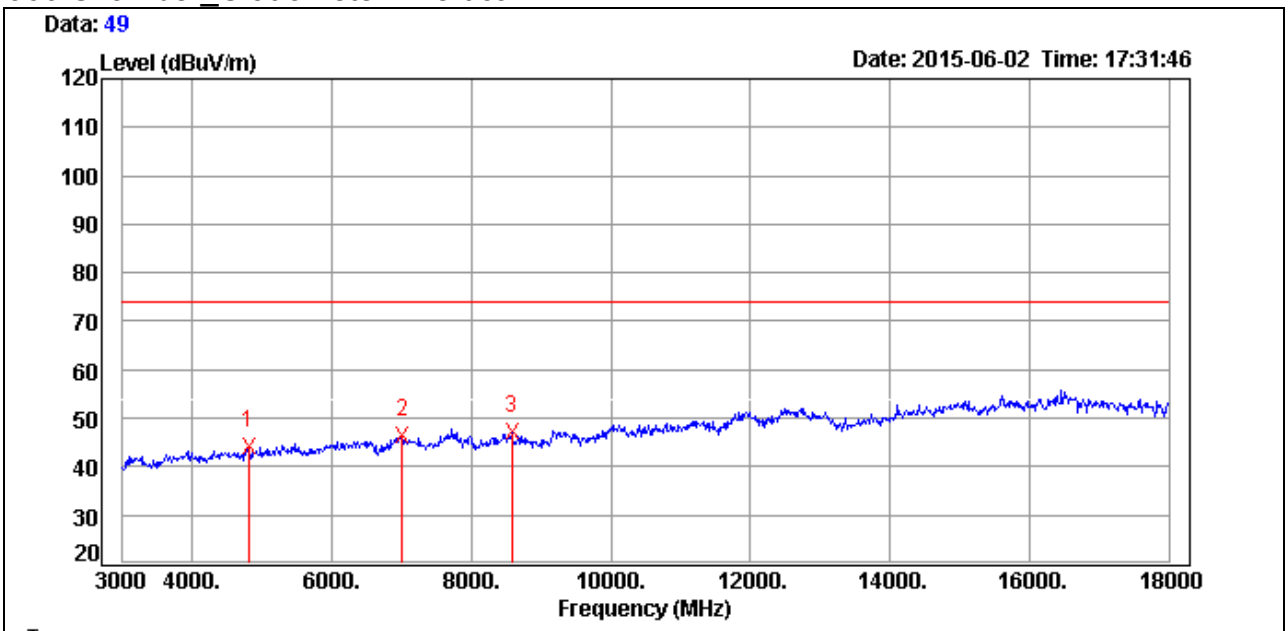
Product Name	Computer	Test By	Waternil Guan
Test Model	POC127	Test Date	2015/06/02
Test Mode	IEEE 802.11gn HT20 TX / CH Low	Temp. & Humidity	26°C, 52%

966 Chamber_C at 3Meter / Vertical



Trace:

Freq. MHz	Reading dBuV	C.F. dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Azimuth deg	Height cm	Remark
4800.00	44.75	-0.59	44.16	74.00	-29.84	54	100	Peak
7005.00	43.74	2.69	46.43	74.00	-27.57	229	200	Peak
8580.00	43.27	3.82	47.09	74.00	-26.91	77	200	Peak

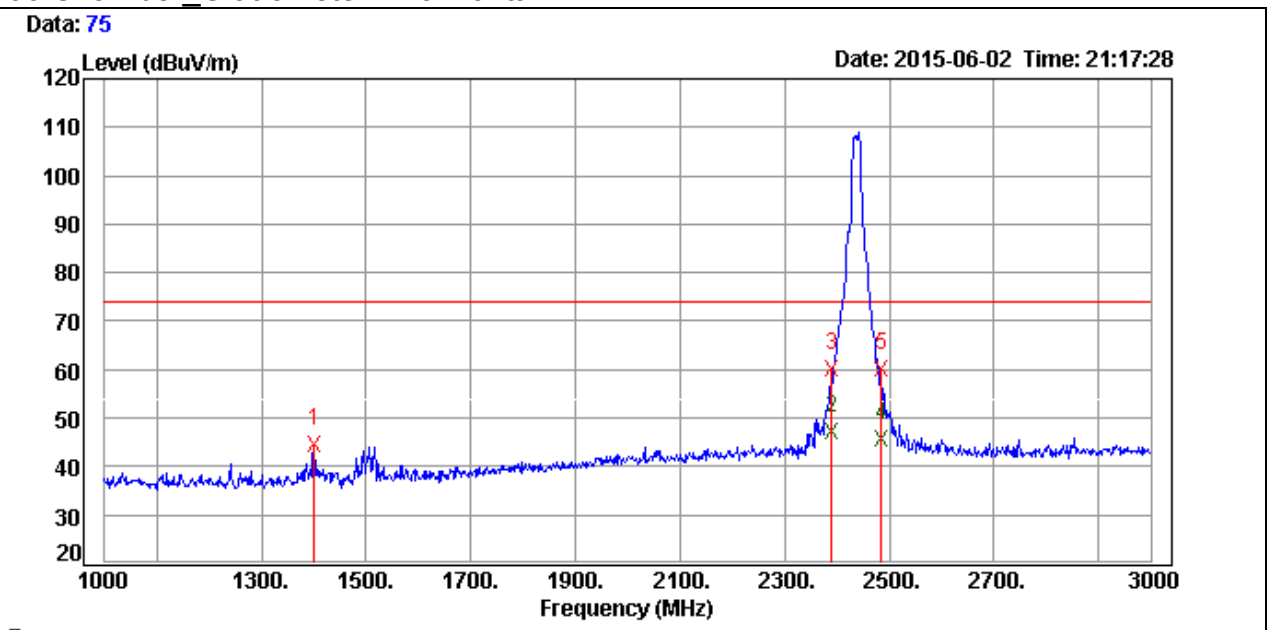
Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Average test would be performed if the peak result were greater than the average limit.*
3. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
4. *Result = Reading + Correction Factor*
   Margin = Result – Limit
   Remark Peak = Result(PK) – Limit(PK)
   Remark AVG = Result(AV) – Limit(AV)
5. *There is no emission in 18GHz ~ 26.5GHz.*

This report shall not be reproduced, except in full, without the written approval of Compliance Certification Services Inc.

Product Name	Computer	Test By	Waternil Guan
Test Model	POC127	Test Date	2015/06/02
Test Mode	IEEE 802.11gn HT20 TX / CH Middle	Temp. & Humidity	26°C, 52%

966 Chamber_C at 3Meter / Horizontal



Trace:

Freq. MHz	Reading dBuV	C.F. dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Azimuth deg	Height cm	Remark
1400.00	45.56	-0.97	44.59	74.00	-29.41	359	150	Peak
2390.00	43.20	4.11	47.31	54.00	-6.69	360	196	Average
2390.00	56.13	4.11	60.24	74.00	-13.76	360	196	Peak
2484.00	41.46	4.29	45.75	54.00	-8.25	340	167	Average
2484.00	55.95	4.29	60.24	74.00	-13.76	340	167	Peak

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Average test would be performed if the peak result were greater than the average limit.*
3. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
4. *Result = Reading + Correction Factor*
   Margin = Result – Limit
   Remark Peak = Result(PK) – Limit(PK)
   Remark AVG = Result(AV) – Limit(AV)

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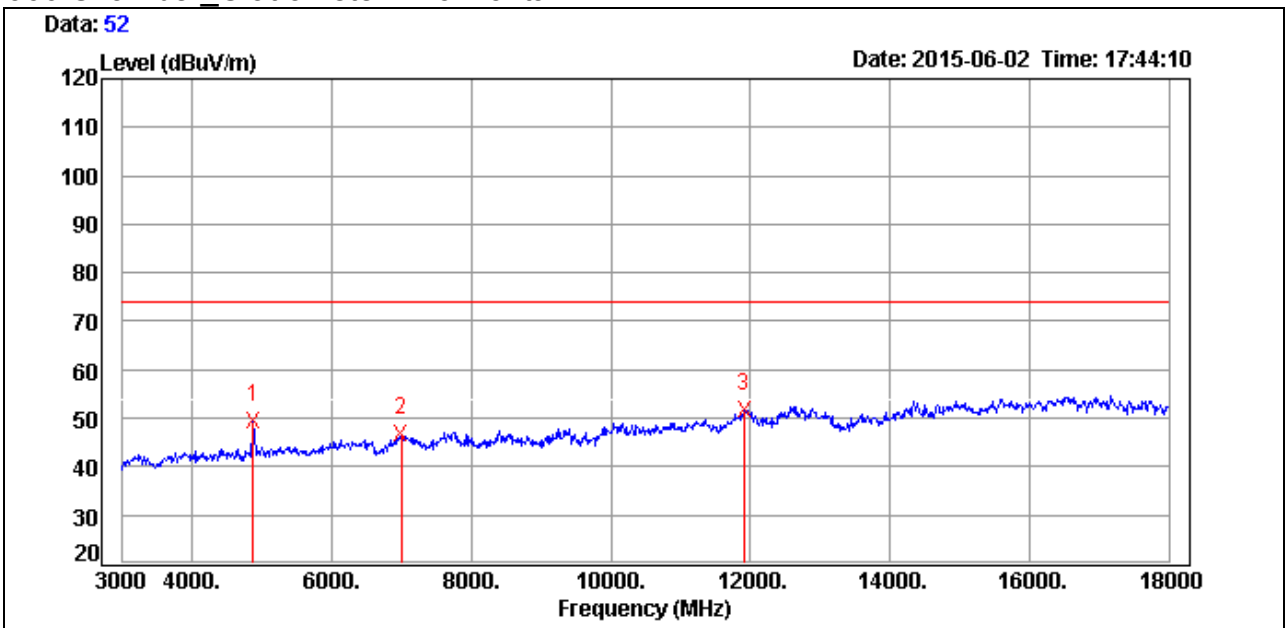
Product Name	Computer	Test By	Waternil Guan
Test Model	POC127	Test Date	2015/06/02
Test Mode	IEEE 802.11gn HT20 TX / CH Middle	Temp. & Humidity	26°C, 52%

966 Chamber_C at 3Meter / Horizontal



Trace:

Freq. MHz	Reading dBuV	C.F. dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Azimuth deg	Height cm	Remark
4875.00	49.80	-0.41	49.39	74.00	-24.61	329	150	Peak
6990.00	44.03	2.69	46.72	74.00	-27.28	39	100	Peak
11910.00	43.66	8.01	51.67	74.00	-22.33	149	150	Peak

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Average test would be performed if the peak result were greater than the average limit.*
3. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
4. *Result = Reading + Correction Factor*
   Margin = Result – Limit
   Remark Peak = Result(PK) – Limit(PK)
   Remark AVG = Result(AV) – Limit(AV)
5. *There is no emission in 18GHz ~ 26.5GHz.*

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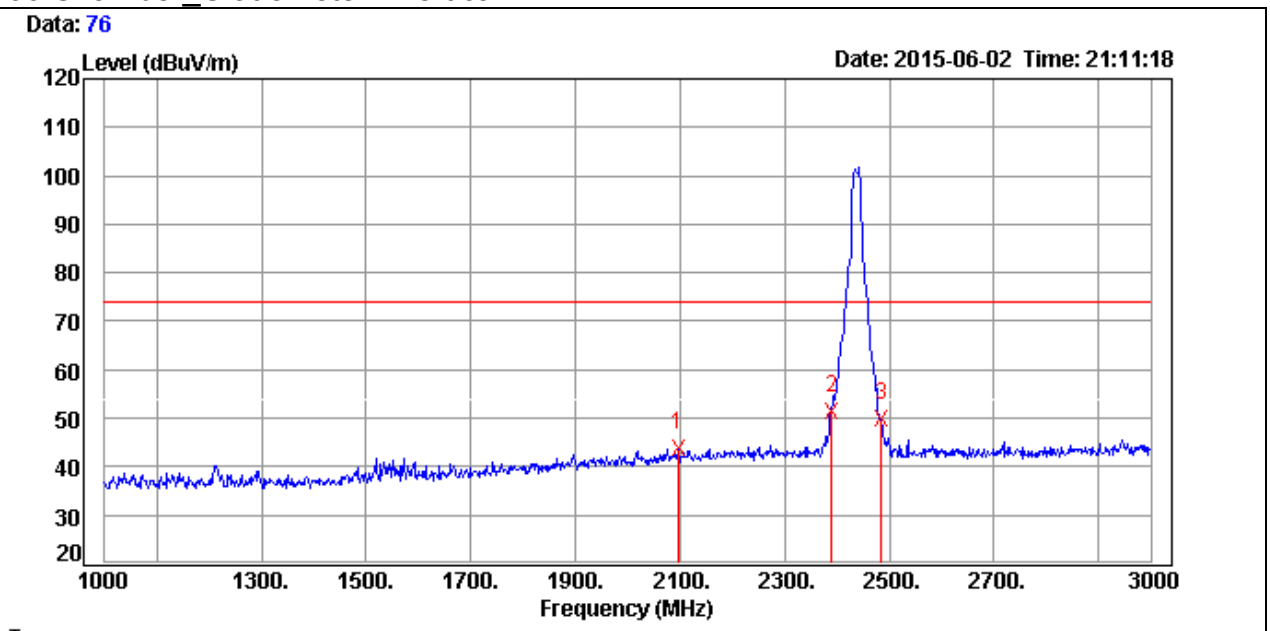
Product Name	Computer	Test By	Waternil Guan
Test Model	POC127	Test Date	2015/06/02
Test Mode	IEEE 802.11gn HT20 TX / CH Middle	Temp. & Humidity	26°C, 52%

966 Chamber_C at 3Meter / Vertical



Trace:

Freq. MHz	Reading dBuV	C.F. dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Azimuth deg	Height cm	Remark
2096.00	40.07	3.54	43.61	74.00	-30.39	46	200	Peak
2390.00	47.36	4.11	51.47	74.00	-22.53	28	100	Peak
2484.00	45.39	4.29	49.68	74.00	-24.32	2	200	Peak

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Average test would be performed if the peak result were greater than the average limit.*
3. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
4. *Result = Reading + Correction Factor*
   Margin = Result – Limit
   Remark Peak = Result(PK) – Limit(PK)
   Remark AVG = Result(AV) – Limit(AV)

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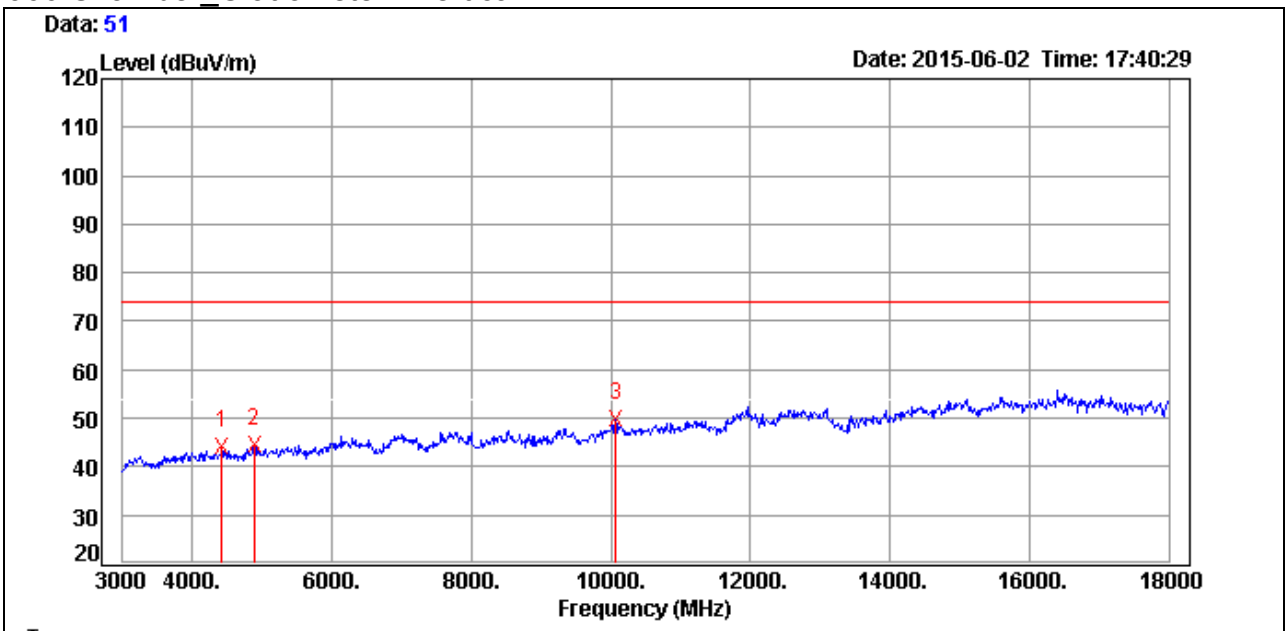
Product Name	Computer	Test By	Waternil Guan
Test Model	POC127	Test Date	2015/06/02
Test Mode	IEEE 802.11gn HT20 TX / CH Middle	Temp. & Humidity	26°C, 52%

966 Chamber_C at 3Meter / Vertical



Trace:

Freq. MHz	Reading dBuV	C.F. dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Azimuth deg	Height cm	Remark
4425.00	45.64	-1.47	44.17	74.00	-29.83	314	200	Peak
4890.00	44.99	-0.38	44.61	74.00	-29.39	195	200	Peak
10065.00	44.62	5.12	49.74	74.00	-24.26	237	100	Peak

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Average test would be performed if the peak result were greater than the average limit.*
3. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
4. *Result = Reading + Correction Factor*
   Margin = Result – Limit
   Remark Peak = Result(PK) – Limit(PK)
   Remark AVG = Result(AV) – Limit(AV)
5. *There is no emission in 18GHz ~ 26.5GHz.*

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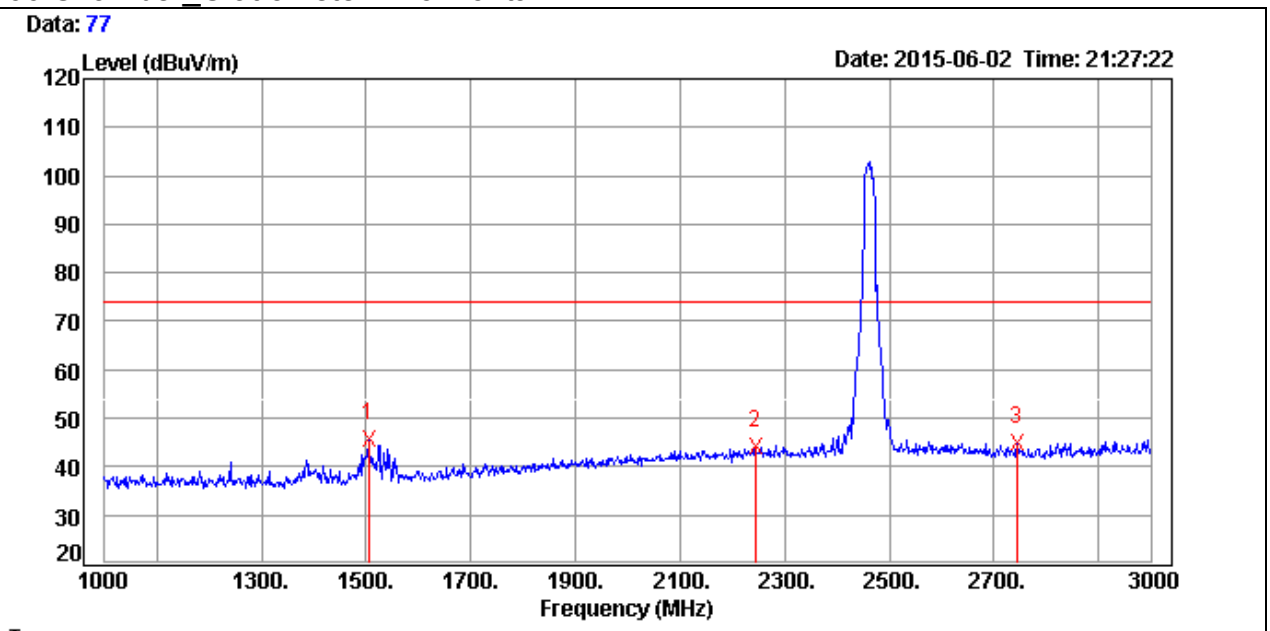
Product Name	Computer	Test By	Waternil Guan
Test Model	POC127	Test Date	2015/06/02
Test Mode	IEEE 802.11gn HT20 TX / CH High	Temp. & Humidity	26°C, 52%

966 Chamber_C at 3Meter / Horizontal



Trace:

Freq. MHz	Reading dBuV	C.F. dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Azimuth deg	Height cm	Remark
1504.00	46.51	-0.96	45.55	74.00	-28.45	16	200	Peak
2244.00	40.42	3.82	44.24	74.00	-29.76	21	100	Peak
2744.00	39.91	4.94	44.85	74.00	-29.15	40	100	Peak

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Average test would be performed if the peak result were greater than the average limit.*
3. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
4. *Result = Reading + Correction Factor*
   Margin = Result – Limit
   Remark Peak = Result(PK) – Limit(PK)
   Remark AVG = Result(AV) – Limit(AV)

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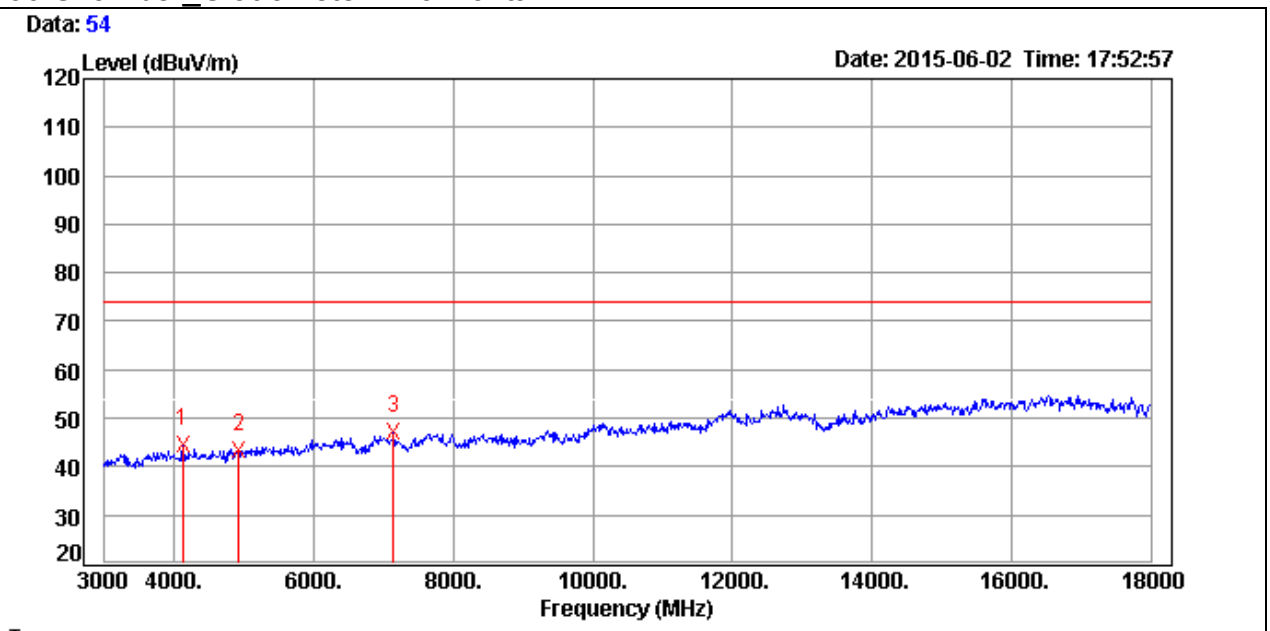
Product Name	Computer	Test By	Waternil Guan
Test Model	POC127	Test Date	2015/06/02
Test Mode	IEEE 802.11gn HT20 TX / CH High	Temp. & Humidity	26°C, 52%

966 Chamber_C at 3Meter / Horizontal



Trace:

Freq. MHz	Reading dBuV	C.F. dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Azimuth deg	Height cm	Remark
4125.00	46.57	-2.17	44.40	74.00	-29.60	344	200	Peak
4920.00	43.82	-0.31	43.51	74.00	-30.49	292	200	Peak
7140.00	44.29	2.75	47.04	74.00	-26.96	155	150	Peak

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Average test would be performed if the peak result were greater than the average limit.*
3. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
4. *Result = Reading + Correction Factor*
   Margin = Result – Limit
   Remark Peak = Result(PK) – Limit(PK)
   Remark AVG = Result(AV) – Limit(AV)
5. *There is no emission in 18GHz ~ 26.5GHz.*

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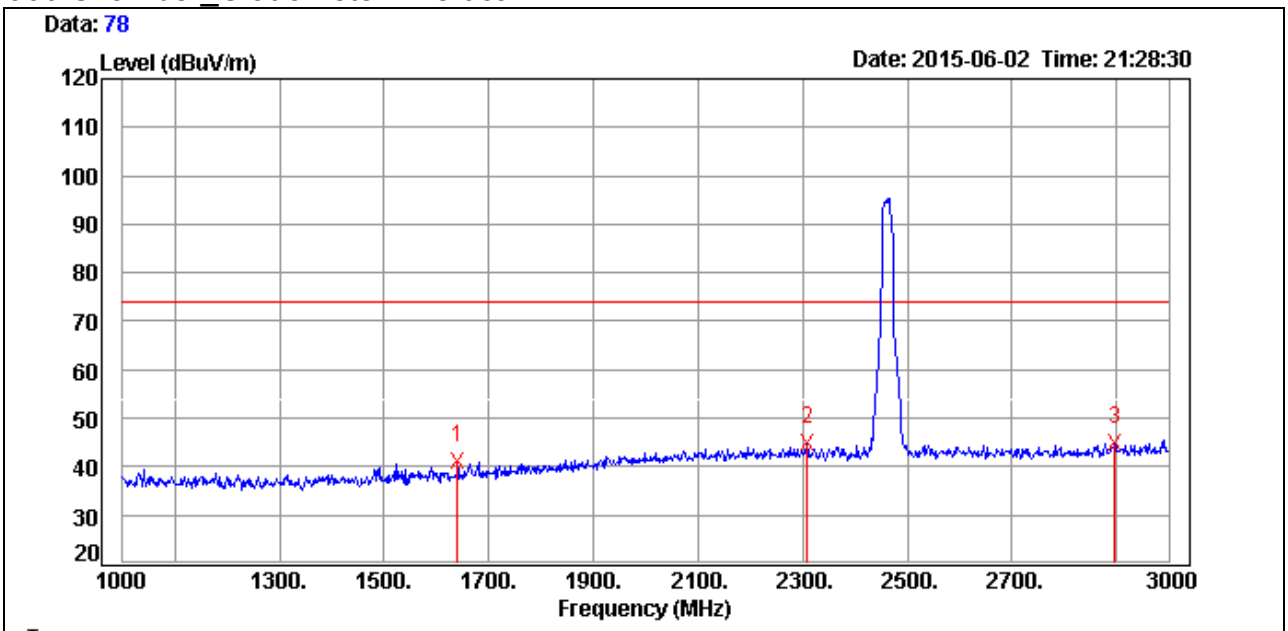
Product Name	Computer	Test By	Waternil Guan
Test Model	POC127	Test Date	2015/06/02
Test Mode	IEEE 802.11gn HT20 TX / CH High	Temp. & Humidity	26°C, 52%

966 Chamber_C at 3Meter / Vertical



Trace:

Freq. MHz	Reading dBuV	C.F. dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Azimuth deg	Height cm	Remark
1640.00	41.00	0.23	41.23	74.00	-32.77	14	200	Peak
2308.00	40.84	3.95	44.79	74.00	-29.21	71	100	Peak
2896.00	39.42	5.33	44.75	74.00	-29.25	232	200	Peak

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Average test would be performed if the peak result were greater than the average limit.*
3. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
4. *Result = Reading + Correction Factor*
   Margin = Result – Limit
   Remark Peak = Result(PK) – Limit(PK)
   Remark AVG = Result(AV) – Limit(AV)

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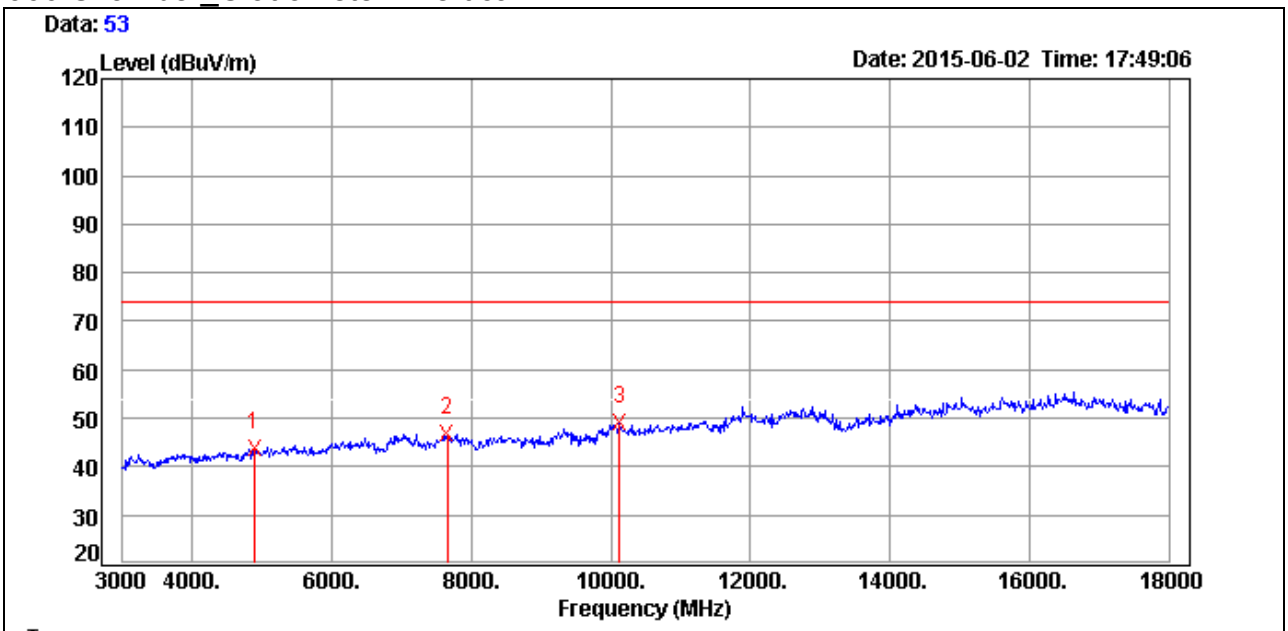
Product Name	Computer	Test By	Waternil Guan
Test Model	POC127	Test Date	2015/06/02
Test Mode	IEEE 802.11gn HT20 TX / CH High	Temp. & Humidity	26°C, 52%

966 Chamber_C at 3Meter / Vertical



Trace:

Freq. MHz	Reading dBuV	C.F. dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Azimuth deg	Height cm	Remark
4890.00	44.19	-0.38	43.81	74.00	-30.19	155	100	Peak
7650.00	43.69	3.03	46.72	74.00	-27.28	190	100	Peak
10125.00	43.74	5.21	48.95	74.00	-25.05	355	150	Peak

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Average test would be performed if the peak result were greater than the average limit.*
3. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
4. *Result = Reading + Correction Factor*
   Margin = Result – Limit
   Remark Peak = Result(PK) – Limit(PK)
   Remark AVG = Result(AV) – Limit(AV)
5. *There is no emission in 18GHz ~ 26.5GHz*

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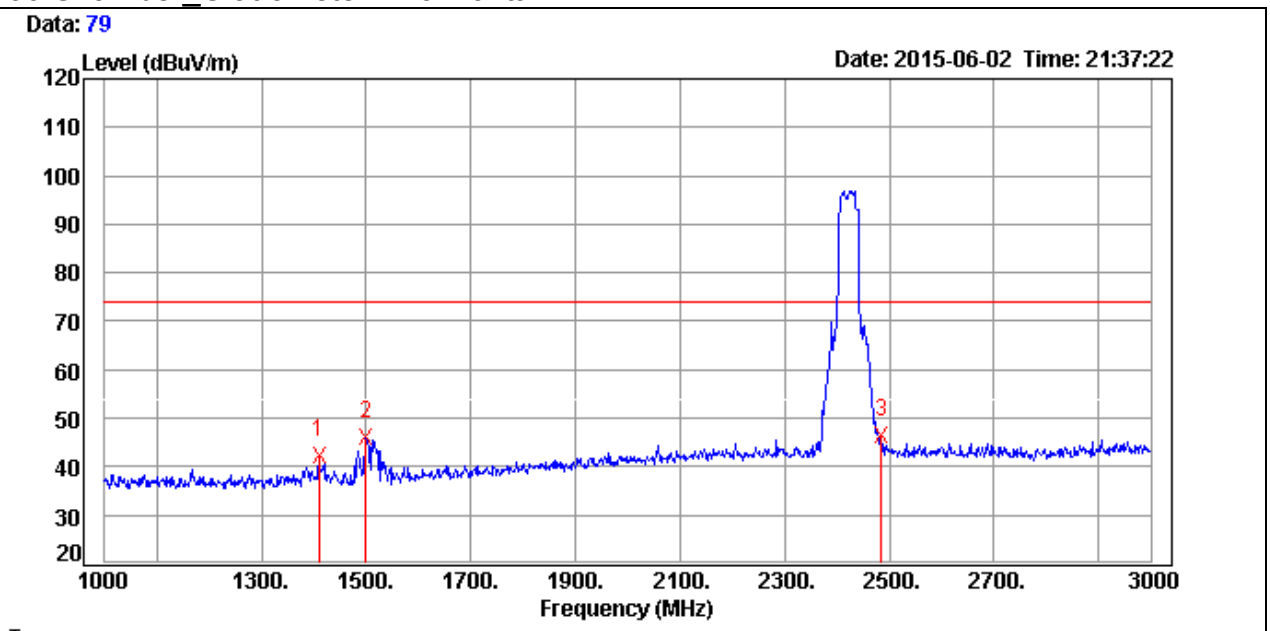
Product Name	Computer	Test By	Waternil Guan
Test Model	POC127	Test Date	2015/06/02
Test Mode	IEEE 802.11gn HT40 TX / CH Low	Temp. & Humidity	26°C, 52%

966 Chamber_C at 3Meter / Horizontal



Trace:

Freq. MHz	Reading dBuV	C.F. dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Azimuth deg	Height cm	Remark
1410.00	43.26	-0.98	42.28	74.00	-31.72	359	200	Peak
1500.00	46.94	-0.99	45.95	74.00	-28.05	2	150	Peak
2484.00	42.14	4.29	46.43	74.00	-27.57	34	150	Peak

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Average test would be performed if the peak result were greater than the average limit.*
3. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
4. *Result = Reading + Correction Factor*
   Margin = Result – Limit
   Remark Peak = Result(PK) – Limit(PK)
   Remark AVG = Result(AV) – Limit(AV)

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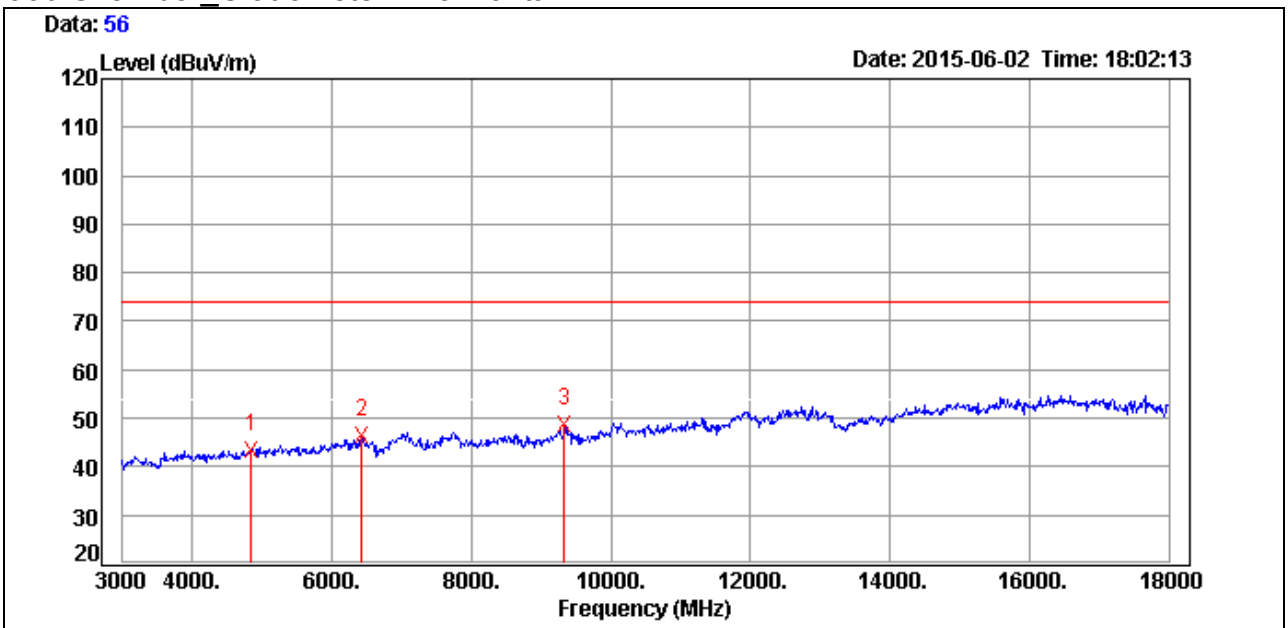
Product Name	Computer	Test By	Waternil Guan
Test Model	POC127	Test Date	2015/06/02
Test Mode	IEEE 802.11gn HT40 TX / CH Low	Temp. & Humidity	26°C, 52%

966 Chamber_C at 3Meter / Horizontal



Trace:

Freq. MHz	Reading dBuV	C.F. dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Azimuth deg	Height cm	Remark
4845.00	44.00	-0.48	43.52	74.00	-30.48	0	200	Peak
6435.00	43.85	2.65	46.50	74.00	-27.50	288	150	Peak
9330.00	44.62	4.10	48.72	74.00	-25.28	141	150	Peak

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Average test would be performed if the peak result were greater than the average limit.*
3. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
4. *Result = Reading + Correction Factor*
   Margin = Result – Limit
   Remark Peak = Result(PK) – Limit(PK)
   Remark AVG = Result(AV) – Limit(AV)
5. *There is no emission in 18GHz ~ 26.5GHz.*

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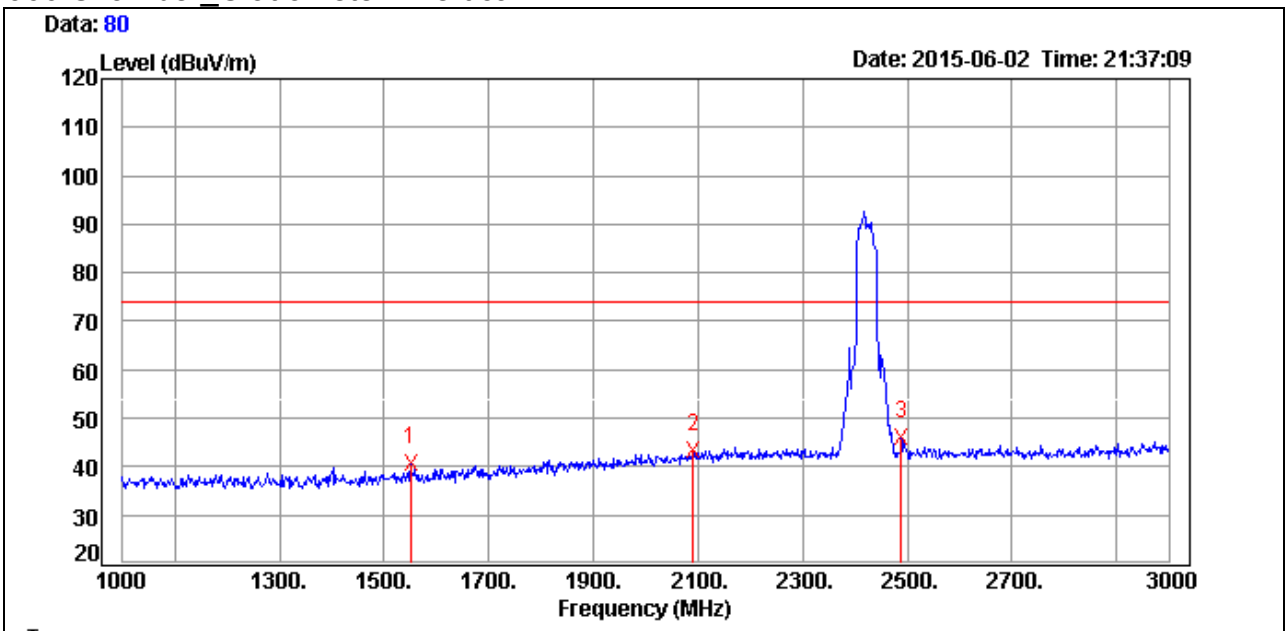
Product Name	Computer	Test By	Waternil Guan
Test Model	POC127	Test Date	2015/06/02
Test Mode	IEEE 802.11gn HT40 TX / CH Low	Temp. & Humidity	26°C, 52%

966 Chamber_C at 3Meter / Vertical



Trace:

Freq. MHz	Reading dBuV	C.F. dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Azimuth deg	Height cm	Remark
1550.00	41.09	-0.56	40.53	74.00	-33.47	127	150	Peak
2090.00	39.90	3.52	43.42	74.00	-30.58	125	100	Peak
2488.00	41.62	4.30	45.92	74.00	-28.08	360	200	Peak

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Average test would be performed if the peak result were greater than the average limit.*
3. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
4. *Result = Reading + Correction Factor*
   Margin = Result – Limit
   Remark Peak = Result(PK) – Limit(PK)
   Remark AVG = Result(AV) – Limit(AV)

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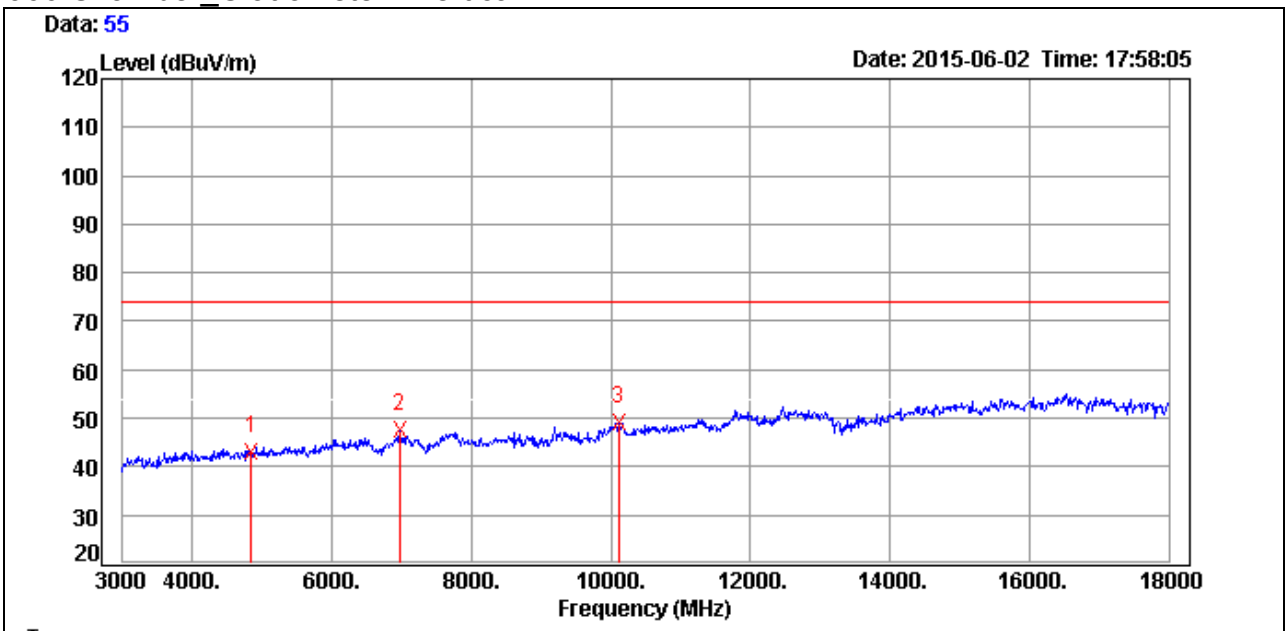
Product Name	Computer	Test By	Waternil Guan
Test Model	POC127	Test Date	2015/06/02
Test Mode	IEEE 802.11gn HT40 TX / CH Low	Temp. & Humidity	26°C, 52%

966 Chamber_C at 3Meter / Vertical



Trace:

Freq. MHz	Reading dBuV	C.F. dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Azimuth deg	Height cm	Remark
4845.00	43.51	-0.48	43.03	74.00	-30.97	123	150	Peak
6975.00	44.72	2.69	47.41	74.00	-26.59	22	200	Peak
10110.00	43.88	5.19	49.07	74.00	-24.93	179	150	Peak

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Average test would be performed if the peak result were greater than the average limit.*
3. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
4. *Result = Reading + Correction Factor*
   Margin = Result – Limit
   Remark Peak = Result(PK) – Limit(PK)
   Remark AVG = Result(AV) – Limit(AV)
5. *There is no emission in 18GHz ~ 26.5GHz.*

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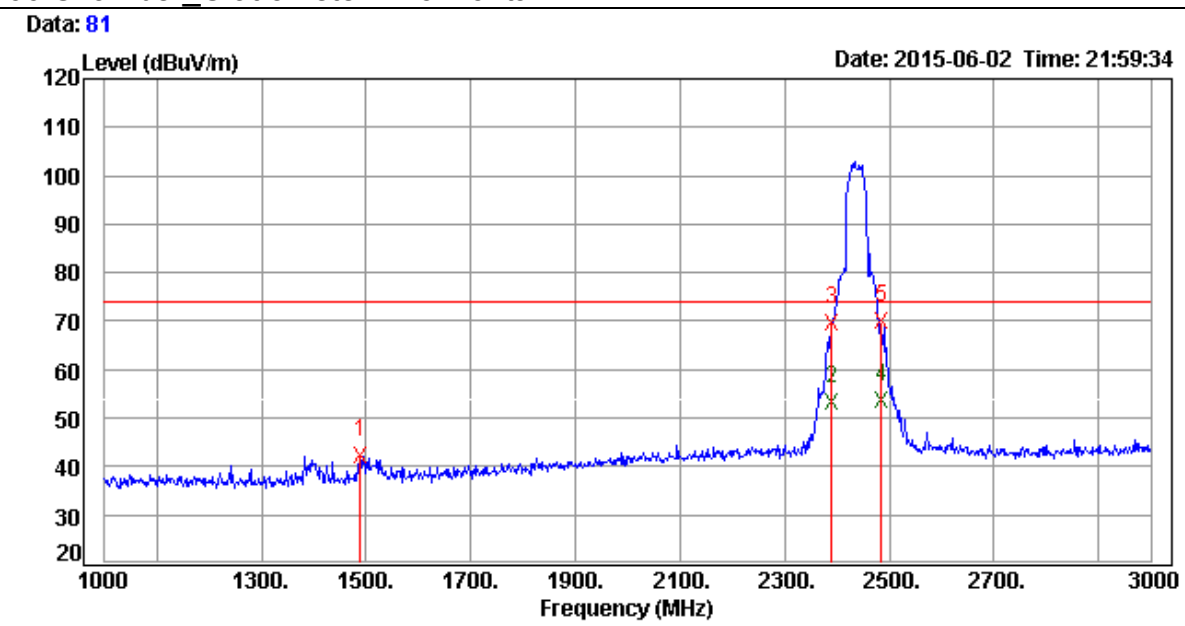
Product Name	Computer	Test By	Waternil Guan
Test Model	POC127	Test Date	2015/06/02
Test Mode	IEEE 802.11gn HT40 TX / CH Middle	Temp. & Humidity	26°C, 52%

966 Chamber_C at 3Meter / Horizontal



Trace:

Freq. MHz	Reading dBuV	C.F. dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Azimuth deg	Height cm	Remark
1488.00	43.28	-0.99	42.29	74.00	-31.71	12	200	Peak
2390.00	49.00	4.11	53.11	54.00	-0.89	51	100	Average
2390.00	65.56	4.11	69.67	74.00	-4.33	51	100	Peak
2484.00	49.20	4.29	53.49	54.00	-0.51	0	160	Average
2484.00	65.67	4.29	69.96	74.00	-4.04	0	160	Peak

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Average test would be performed if the peak result were greater than the average limit.*
3. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
4. *Result = Reading + Correction Factor*
   Margin = Result – Limit
   Remark Peak = Result(PK) – Limit(PK)
   Remark AVG = Result(AV) – Limit(AV)

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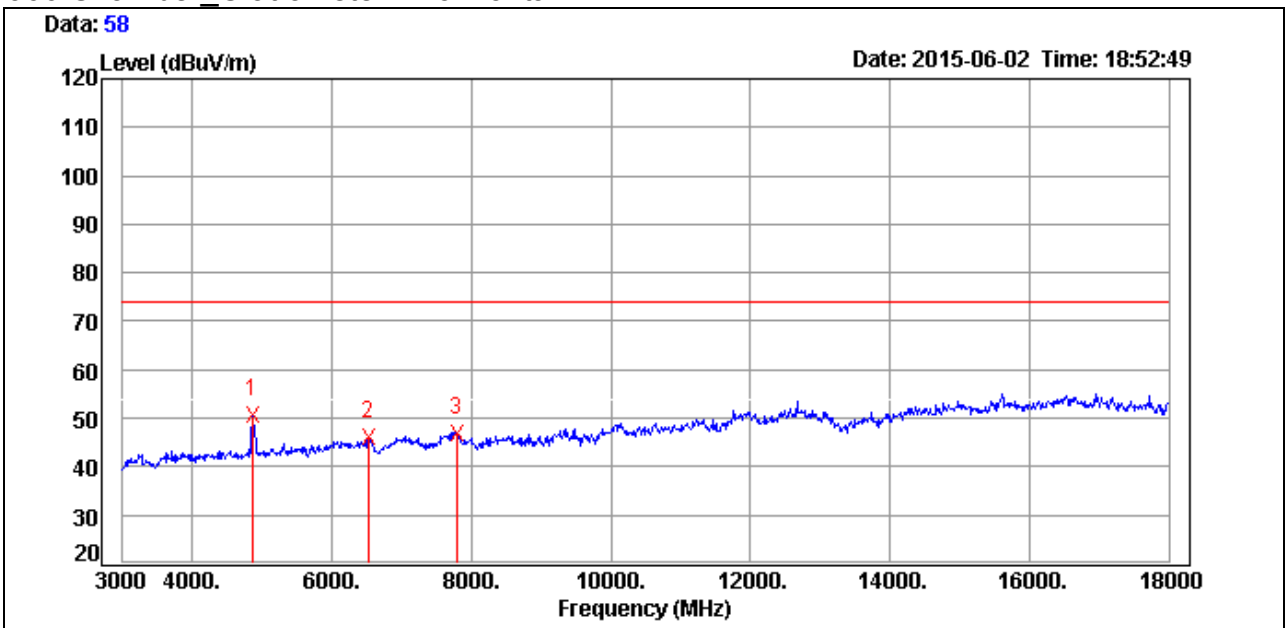
Product Name	Computer	Test By	Waternil Guan
Test Model	POC127	Test Date	2015/06/02
Test Mode	IEEE 802.11gn HT40 TX / CH Middle	Temp. & Humidity	26°C, 52%

966 Chamber_C at 3Meter / Horizontal



Trace:

Freq. MHz	Reading dBuV	C.F. dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Azimuth deg	Height cm	Remark
4860.00	51.01	-0.45	50.56	74.00	-23.44	360	150	Peak
6525.00	43.45	2.75	46.20	74.00	-27.80	182	100	Peak
7785.00	43.84	3.13	46.97	74.00	-27.03	286	100	Peak

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Average test would be performed if the peak result were greater than the average limit.*
3. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
4. *Result = Reading + Correction Factor*
   Margin = Result – Limit
   Remark Peak = Result(PK) – Limit(PK)
   Remark AVG = Result(AV) – Limit(AV)
5. *There is no emission in 18GHz ~ 26.5GHz.*

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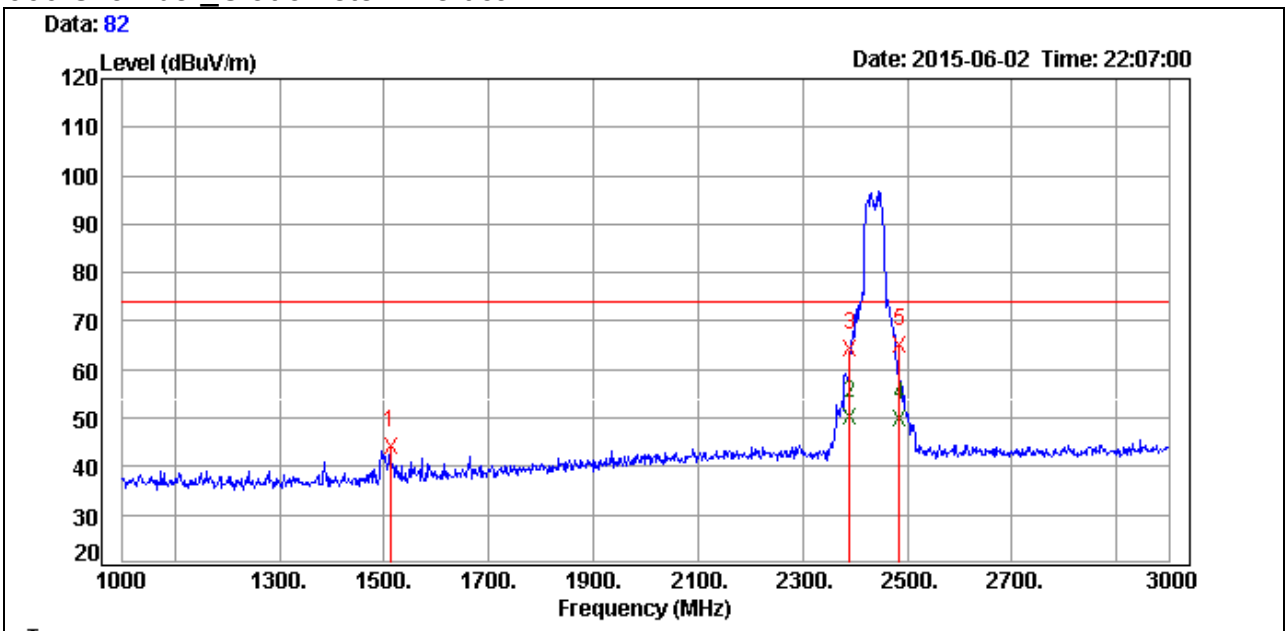
Product Name	Computer	Test By	Waternil Guan
Test Model	POC127	Test Date	2015/06/02
Test Mode	IEEE 802.11gn HT40 TX / CH Middle	Temp. & Humidity	26°C, 52%

966 Chamber_C at 3Meter / Vertical



Trace:

Freq. MHz	Reading dBuV	C.F. dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Azimuth deg	Height cm	Remark
1512.00	45.13	-0.89	44.24	74.00	-29.76	180	150	Peak
2390.00	46.00	4.11	50.11	54.00	-3.89	12	191	Average
2390.00	60.15	4.11	64.26	74.00	-9.74	12	191	Peak
2484.00	45.44	4.29	49.73	54.00	-4.27	8	220	Average
2484.00	60.95	4.29	65.24	74.00	-8.76	8	220	Peak

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Average test would be performed if the peak result were greater than the average limit.*
3. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
4. *Result = Reading + Correction Factor*
   Margin = Result – Limit
   Remark Peak = Result(PK) – Limit(PK)
   Remark AVG = Result(AV) – Limit(AV)

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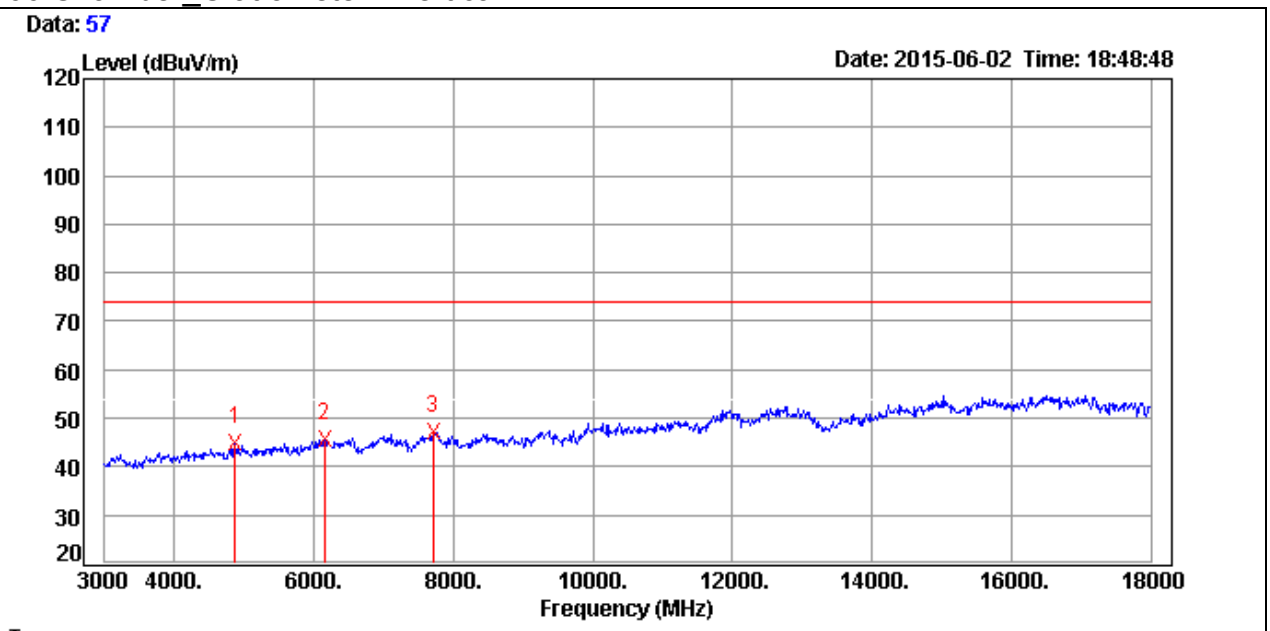
Product Name	Computer	Test By	Waternil Guan
Test Model	POC127	Test Date	2015/06/02
Test Mode	IEEE 802.11gn HT40 TX / CH Middle	Temp. & Humidity	26°C, 52%

966 Chamber_C at 3Meter / Vertical



Trace:

Freq. MHz	Reading dBuV	C.F. dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Azimuth deg	Height cm	Remark
4875.00	45.16	-0.41	44.75	74.00	-29.25	306	150	Peak
6150.00	43.35	2.23	45.58	74.00	-28.42	154	100	Peak
7710.00	44.25	3.08	47.33	74.00	-26.67	169	200	Peak

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Average test would be performed if the peak result were greater than the average limit.*
3. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
4. *Result = Reading + Correction Factor*
   Margin = Result – Limit
   Remark Peak = Result(PK) – Limit(PK)
   Remark AVG = Result(AV) – Limit(AV)
5. *There is no emission in 18GHz ~ 26.5GHz.*

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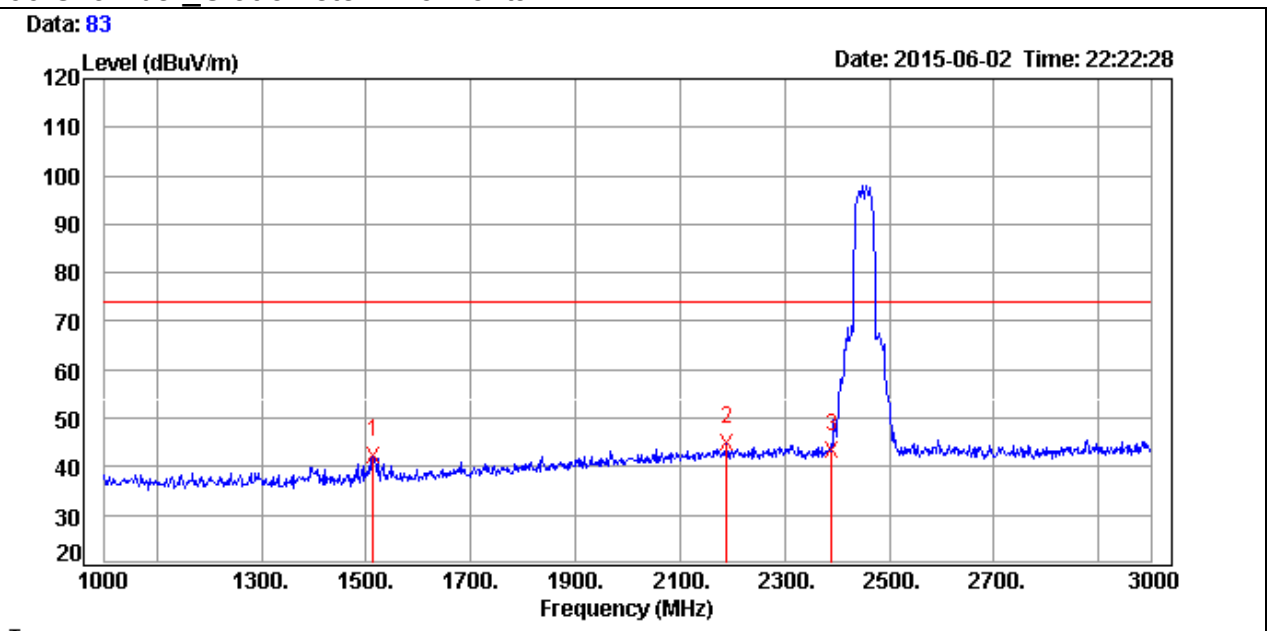
Product Name	Computer	Test By	Waternil Guan
Test Model	POC127	Test Date	2015/06/02
Test Mode	IEEE 802.11gn HT40 TX / CH High	Temp. & Humidity	26°C, 52%

966 Chamber_C at 3Meter / Horizontal



Trace:

Freq. MHz	Reading dBuV	C.F. dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Azimuth deg	Height cm	Remark
1514.00	43.01	-0.87	42.14	74.00	-31.86	356	100	Peak
2190.00	41.03	3.72	44.75	74.00	-29.25	353	200	Peak
2390.00	39.24	4.11	43.35	74.00	-30.65	5	200	Peak

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Average test would be performed if the peak result were greater than the average limit.*
3. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
4. *Result = Reading + Correction Factor*
   Margin = Result – Limit
   Remark Peak = Result(PK) – Limit(PK)
   Remark AVG = Result(AV) – Limit(AV)

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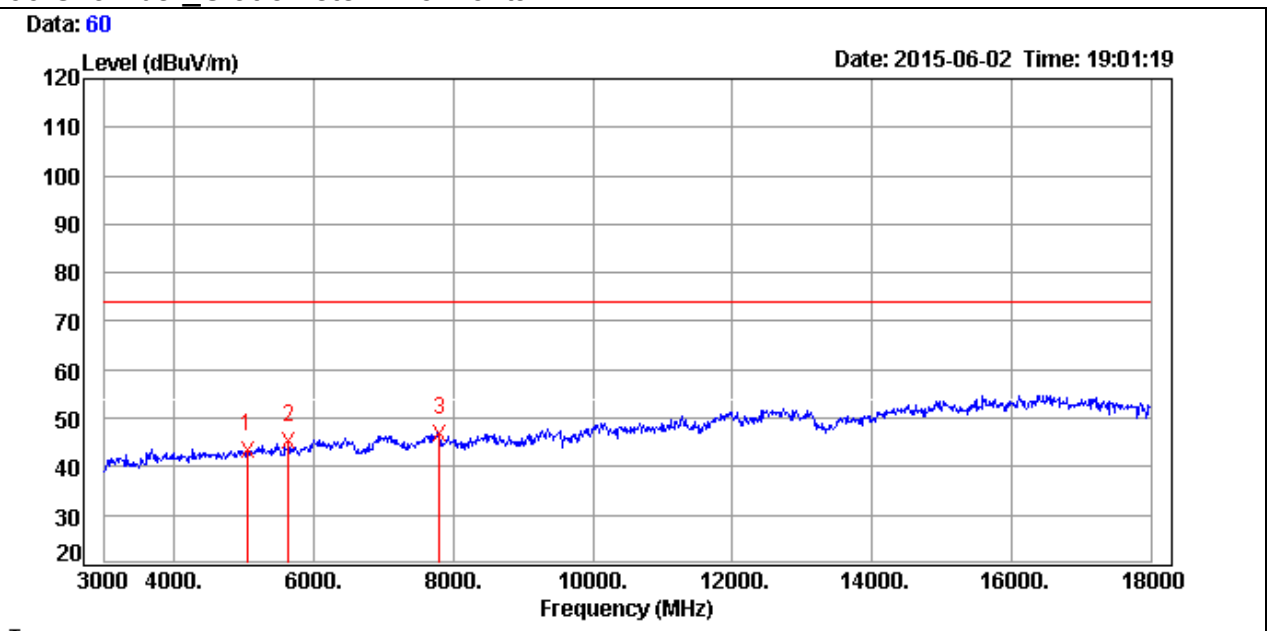
Product Name	Computer	Test By	Waternil Guan
Test Model	POC127	Test Date	2015/06/02
Test Mode	IEEE 802.11gn HT40 TX / CH High	Temp. & Humidity	26°C, 52%

966 Chamber_C at 3Meter / Horizontal



Trace:

Freq. MHz	Reading dBuV	C.F. dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Azimuth deg	Height cm	Remark
5040.00	43.45	-0.05	43.40	74.00	-30.60	53	200	Peak
5640.00	44.27	1.12	45.39	74.00	-28.61	191	200	Peak
7800.00	43.74	3.14	46.88	74.00	-27.12	198	150	Peak

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Average test would be performed if the peak result were greater than the average limit.*
3. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
4. *Result = Reading + Correction Factor*
   Margin = Result – Limit
   Remark Peak = Result(PK) – Limit(PK)
   Remark AVG = Result(AV) – Limit(AV)
5. *There is no emission in 18GHz ~ 26.5GHz.*

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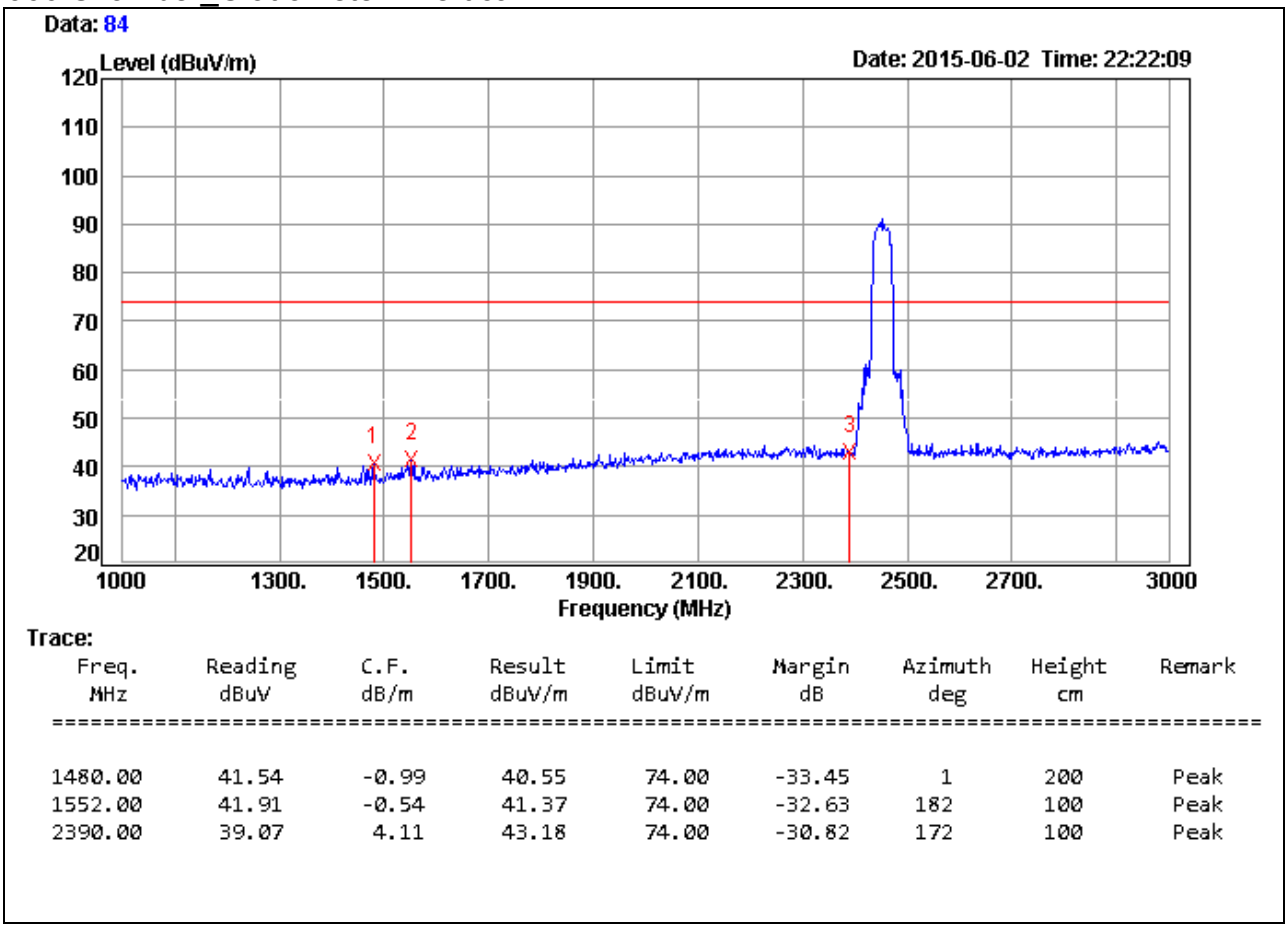
Product Name	Computer	Test By	Waternil Guan
Test Model	POC127	Test Date	2015/06/02
Test Mode	IEEE 802.11gn HT40 TX / CH High	Temp. & Humidity	26°C, 52%

966 Chamber_C at 3Meter / Vertical



Trace:

Freq. MHz	Reading dBuV	C.F. dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Azimuth deg	Height cm	Remark
1480.00	41.54	-0.99	40.55	74.00	-33.45	1	200	Peak
1552.00	41.91	-0.54	41.37	74.00	-32.63	182	100	Peak
2390.00	39.07	4.11	43.18	74.00	-30.82	172	100	Peak

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Average test would be performed if the peak result were greater than the average limit.*
3. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
4. *Result = Reading + Correction Factor*
   Margin = Result – Limit
   Remark Peak = Result(PK) – Limit(PK)
   Remark AVG = Result(AV) – Limit(AV)

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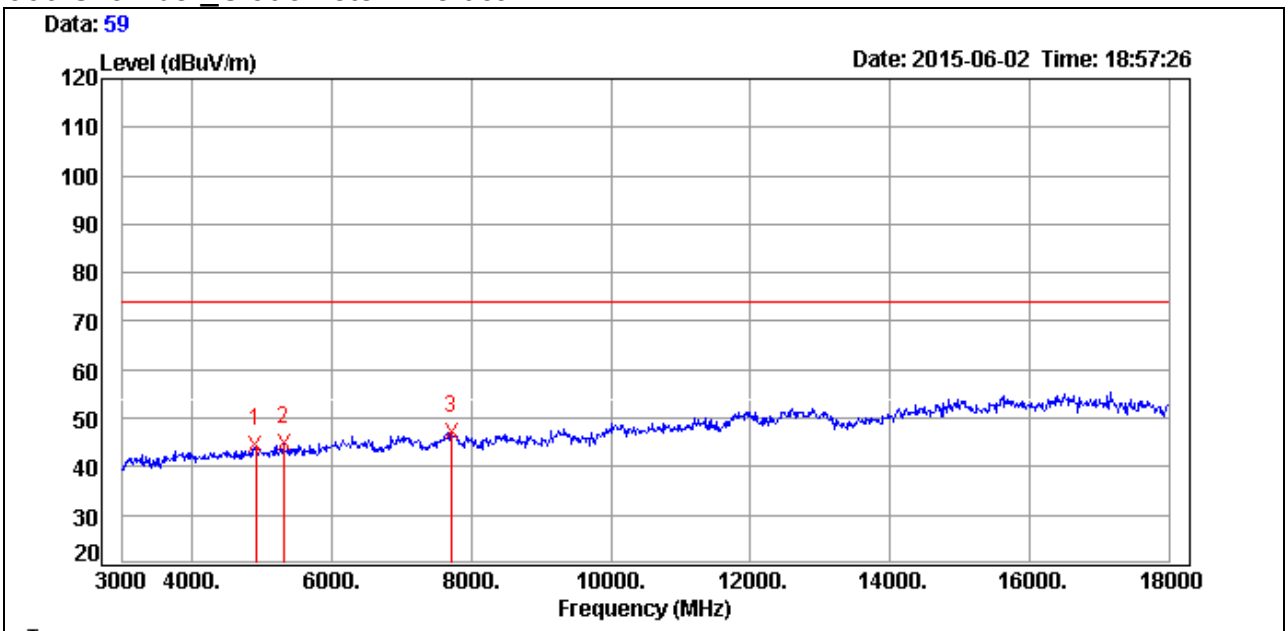
Product Name	Computer	Test By	Waternil Guan
Test Model	POC127	Test Date	2015/06/02
Test Mode	IEEE 802.11gn HT40 TX / CH High	Temp. & Humidity	26°C, 52%

966 Chamber_C at 3Meter / Vertical



Trace:

Freq. MHz	Reading dBuV	C.F. dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Azimuth deg	Height cm	Remark
4905.00	44.70	-0.34	44.36	74.00	-29.64	224	100	Peak
5310.00	44.37	0.43	44.80	74.00	-29.20	350	100	Peak
7710.00	44.20	3.08	47.28	74.00	-26.72	21	200	Peak

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Average test would be performed if the peak result were greater than the average limit.*
3. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
4. *Result = Reading + Correction Factor*
   Margin = Result – Limit
   Remark Peak = Result(PK) – Limit(PK)
   Remark AVG = Result(AV) – Limit(AV)
5. *There is no emission in 18GHz ~ 26.5GHz*

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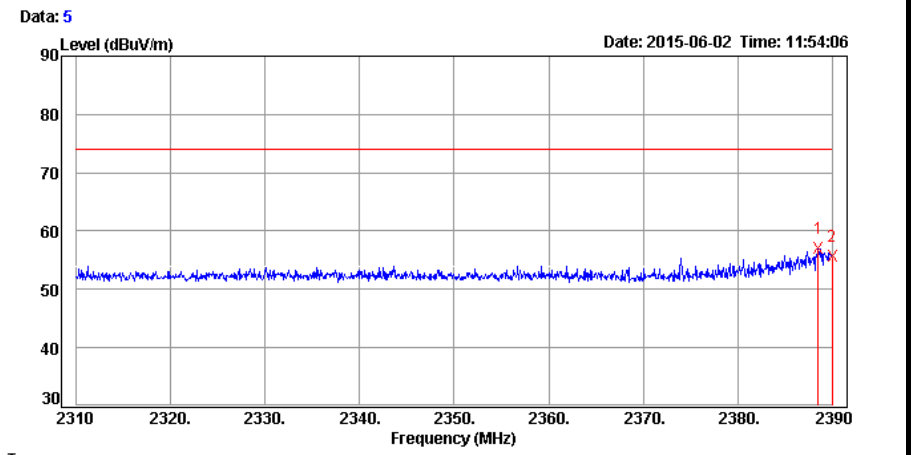
Restricted Band Edges

Detector Mode : Peak **Polarity : Horizontal**

CH Low (IEEE 802.11b Mode)

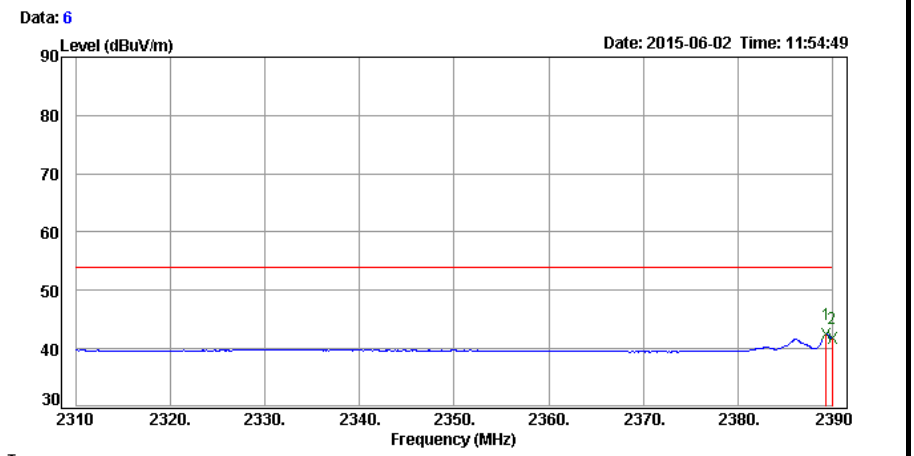


Trace:

Freq. MHz	Reading dBuV	C.F. dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Azimuth deg	Height cm	Remark
2388.56	52.86	4.10	56.96	74.00	-17.04			Peak
2390.00	51.53	4.11	55.64	74.00	-18.36			Peak

Detector Mode : Average **Polarity : Horizontal**

CH Low (IEEE 802.11b Mode)



Trace:

Freq. MHz	Reading dBuV	C.F. dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Azimuth deg	Height cm	Remark
2389.36	38.36	4.11	42.47	54.00	-11.53			Average
2390.00	37.70	4.11	41.81	54.00	-12.19			Average

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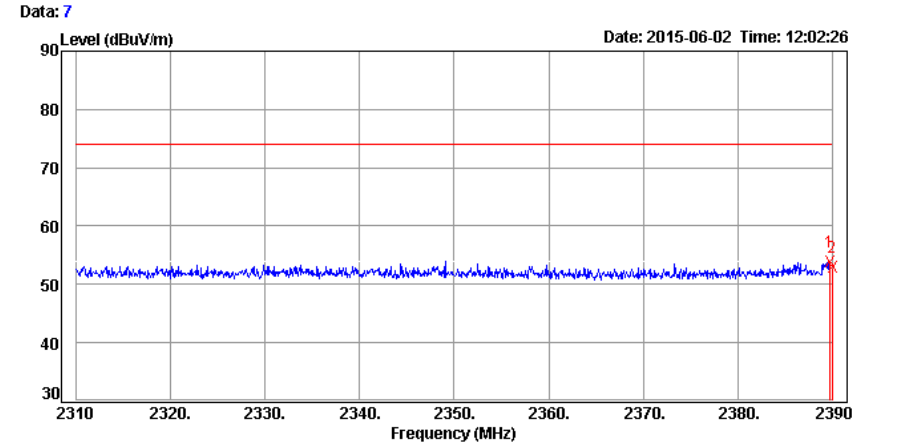
Detector Mode : Peak **Polarity : Vertical**

CH Low (IEEE 802.11b Mode)

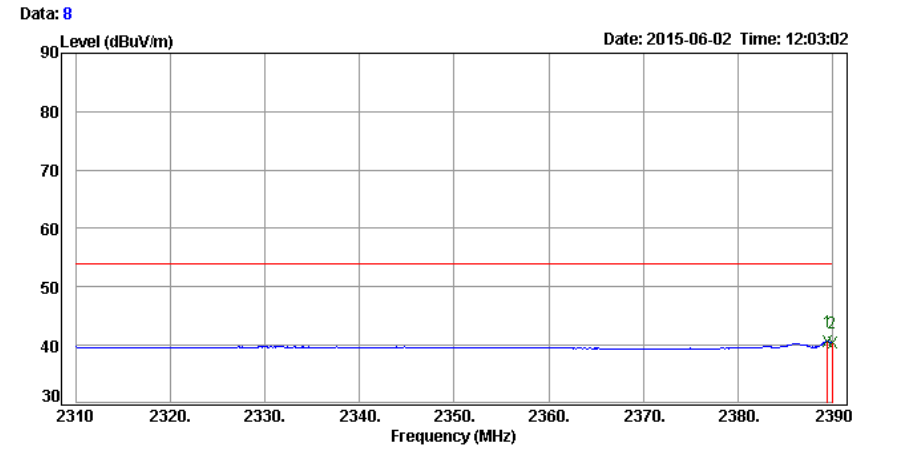


Trace:

Freq. MHz	Reading dBuV	C.F. dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Azimuth deg	Height cm	Remark
2389.76	49.83	4.11	53.94	74.00	-20.06			Peak
2390.00	48.75	4.11	52.86	74.00	-21.14			Peak

Detector Mode : Average **Polarity : Vertical**

CH Low (IEEE 802.11b Mode)



Trace:

Freq. MHz	Reading dBuV	C.F. dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Azimuth deg	Height cm	Remark
2389.52	36.54	4.11	40.65	54.00	-13.35			Average
2390.00	36.27	4.11	40.38	54.00	-13.62			Average

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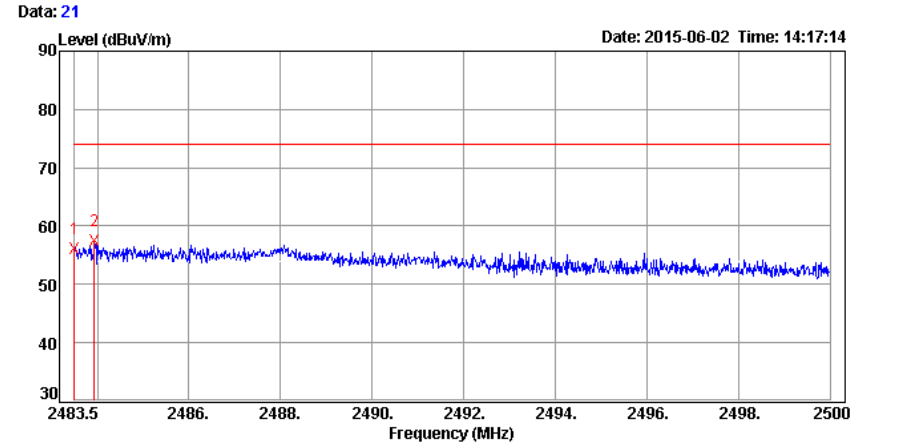
Detector Mode : Peak **Polarity : Horizontal**

CH High (IEEE 802.11b Mode)

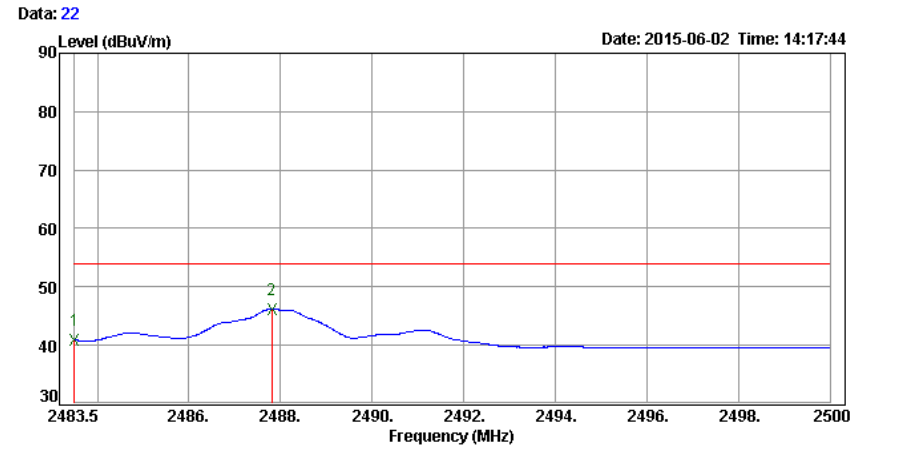


Trace:

Freq. MHz	Reading dBuV	C.F. dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Azimuth deg	Height cm	Remark
2483.50	51.91	4.29	56.20	74.00	-17.80			Peak
2483.93	53.27	4.29	57.56	74.00	-16.44			Peak

Detector Mode : Average **Polarity : Horizontal**

CH High (IEEE 802.11b Mode)



Trace:

Freq. MHz	Reading dBuV	C.F. dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Azimuth deg	Height cm	Remark
2483.50	36.61	4.29	40.90	54.00	-13.10			Average
2487.81	41.90	4.30	46.20	54.00	-7.80			Average

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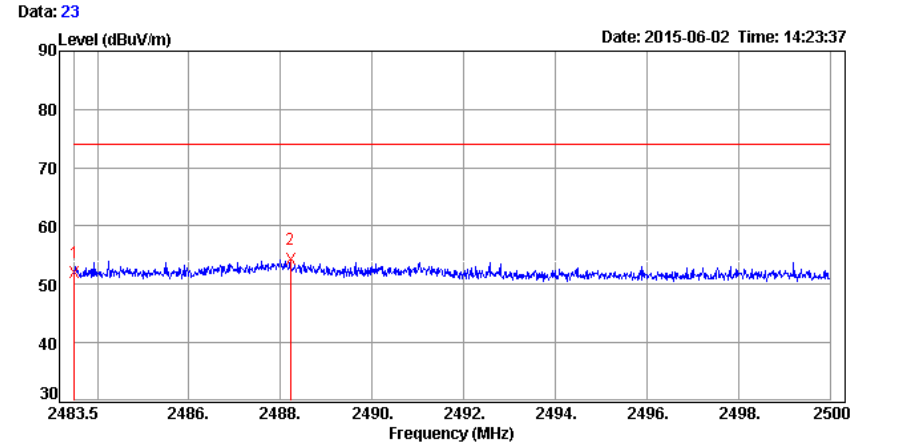
Detector Mode : Peak **Polarity : Vertical**

CH High (IEEE 802.11b Mode)

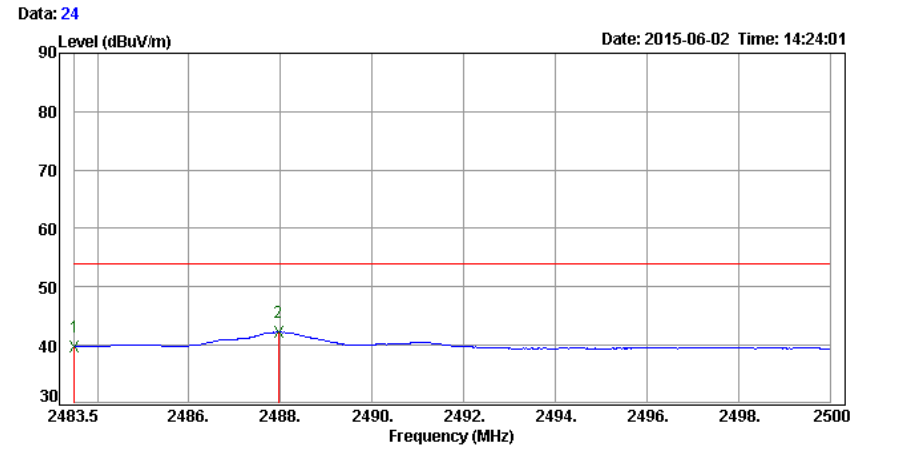


Trace:

Freq. MHz	Reading dBuV	C.F. dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Azimuth deg	Height cm	Remark
2483.50	47.63	4.29	51.92	74.00	-22.08			Peak
2488.22	50.03	4.30	54.33	74.00	-19.67			Peak

Detector Mode : Average **Polarity : Vertical**

CH High (IEEE 802.11b Mode)



Trace:

Freq. MHz	Reading dBuV	C.F. dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Azimuth deg	Height cm	Remark
2483.50	35.44	4.29	39.73	54.00	-14.27			Average
2487.96	37.95	4.30	42.25	54.00	-11.75			Average

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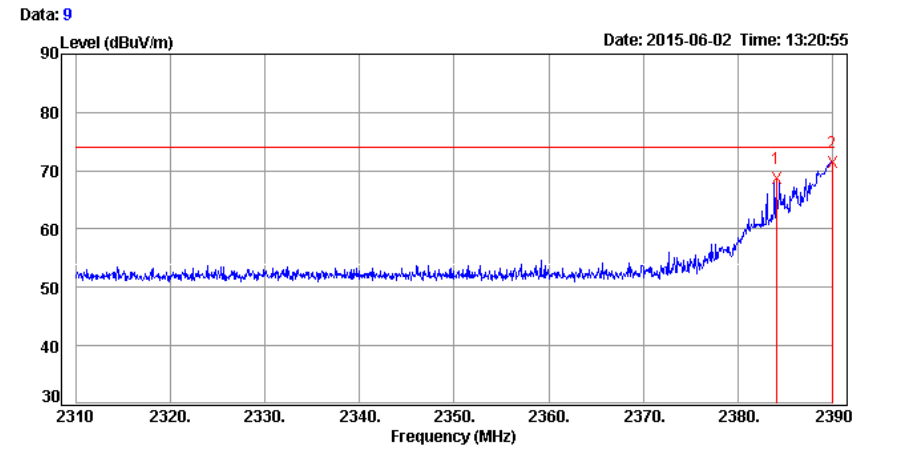
Detector Mode : Peak **Polarity : Horizontal**

CH Low (IEEE 802.11g Mode)

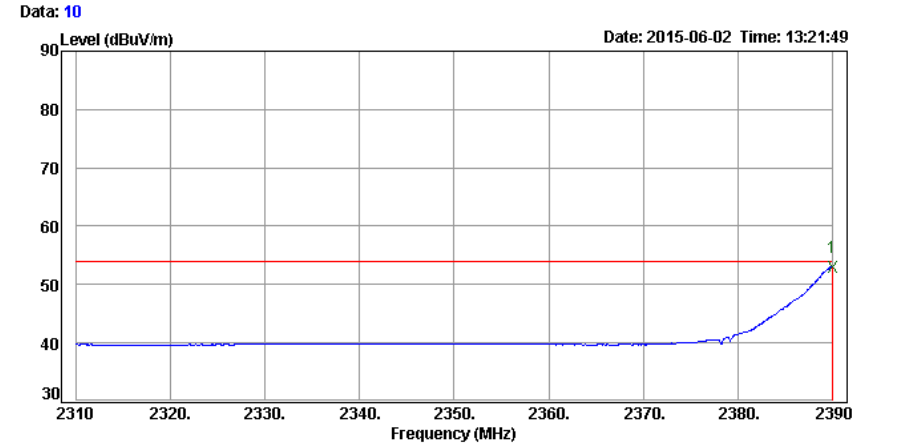


Trace:

Freq. MHz	Reading dBuV	C.F. dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Azimuth deg	Height cm	Remark
2384.08	64.62	4.10	68.72	74.00	-5.28			Peak
2390.00	67.36	4.11	71.47	74.00	-2.53			Peak

Detector Mode : Average **Polarity : Horizontal**

CH Low (IEEE 802.11g Mode)



Trace:

Freq. MHz	Reading dBuV	C.F. dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Azimuth deg	Height cm	Remark
2390.00	48.93	4.11	53.04	54.00	-0.96			Average

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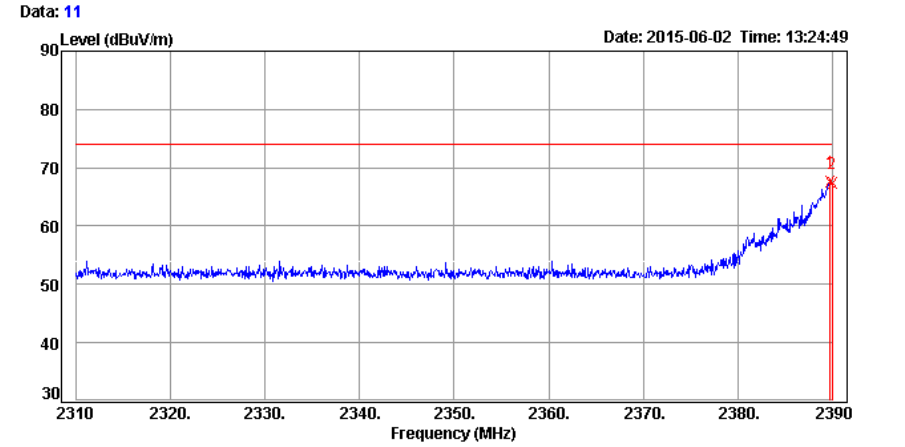
Detector Mode : Peak **Polarity : Vertical**

CH Low (IEEE 802.11g Mode)

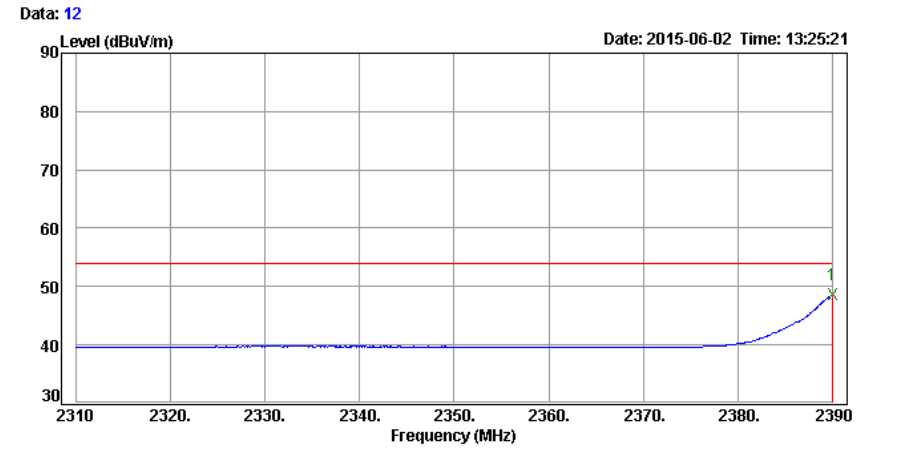


Trace:

Freq. MHz	Reading dBuV	C.F. dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Azimuth deg	Height cm	Remark
2389.84	63.43	4.11	67.54	74.00	-6.46			Peak
2390.00	63.29	4.11	67.40	74.00	-6.60			Peak

Detector Mode : Average **Polarity : Vertical**

CH Low (IEEE 802.11g Mode)



Trace:

Freq. MHz	Reading dBuV	C.F. dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Azimuth deg	Height cm	Remark
2390.00	44.42	4.11	48.53	54.00	-5.47			Average

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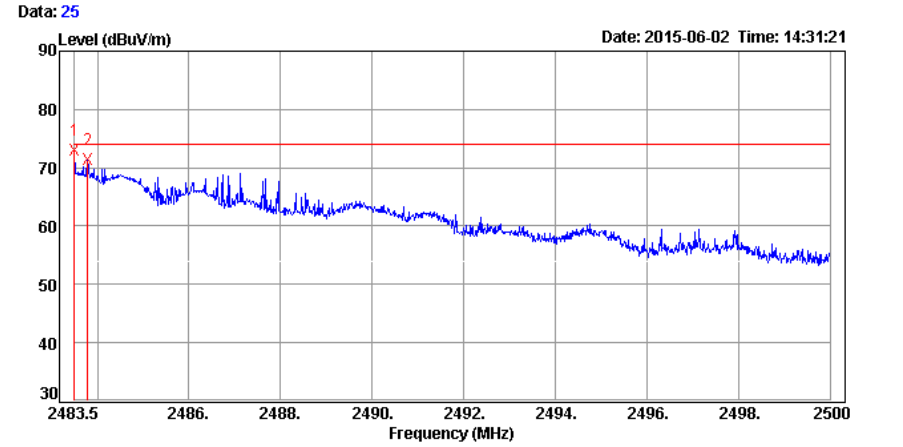
Detector Mode : Peak **Polarity : Horizontal**

CH High (IEEE 802.11g Mode)

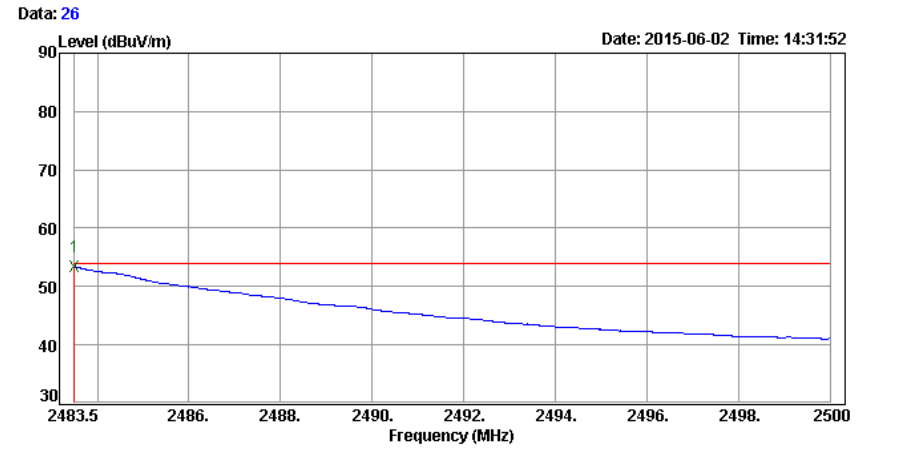


Trace:

Freq. MHz	Reading dBuV	C.F. dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Azimuth deg	Height cm	Remark
2483.50	68.79	4.29	73.08	74.00	-0.92			Peak
2483.78	67.05	4.29	71.34	74.00	-2.66			Peak

Detector Mode : Average **Polarity : Horizontal**

CH High (IEEE 802.11g Mode)



Trace:

Freq. MHz	Reading dBuV	C.F. dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Azimuth deg	Height cm	Remark
2483.50	49.17	4.29	53.46	54.00	-0.54			Average

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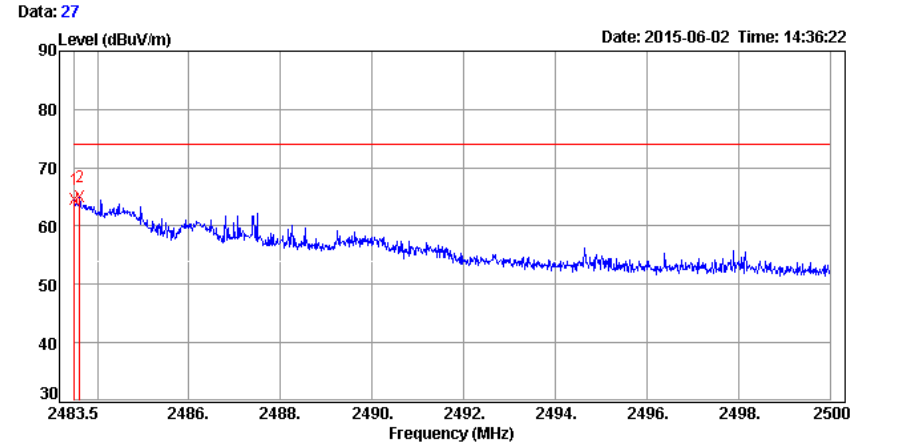
Detector Mode : Peak **Polarity : Vertical**

CH High (IEEE 802.11g Mode)

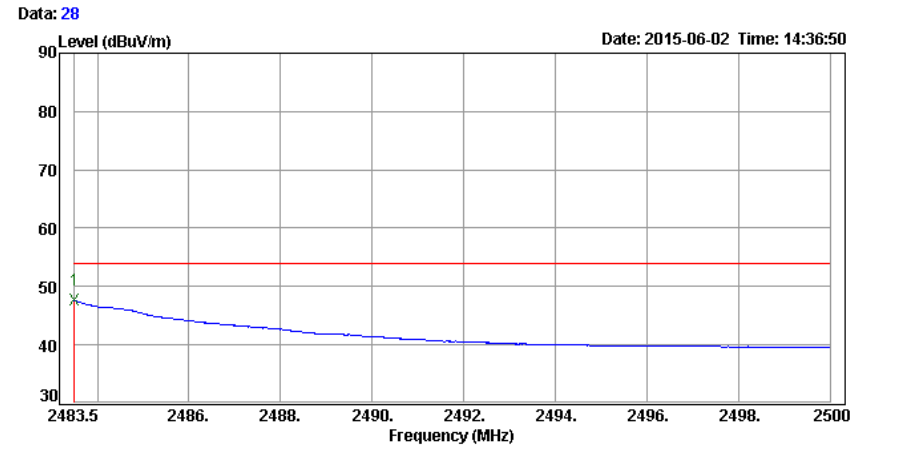


Trace:

Freq. MHz	Reading dBuV	C.F. dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Azimuth deg	Height cm	Remark
2483.50	60.27	4.29	64.56	74.00	-9.44			Peak
2483.62	60.72	4.29	65.01	74.00	-8.99			Peak

Detector Mode : Average **Polarity : Vertical**

CH High (IEEE 802.11g Mode)



Trace:

Freq. MHz	Reading dBuV	C.F. dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Azimuth deg	Height cm	Remark
2483.50	43.30	4.29	47.59	54.00	-6.41			Average

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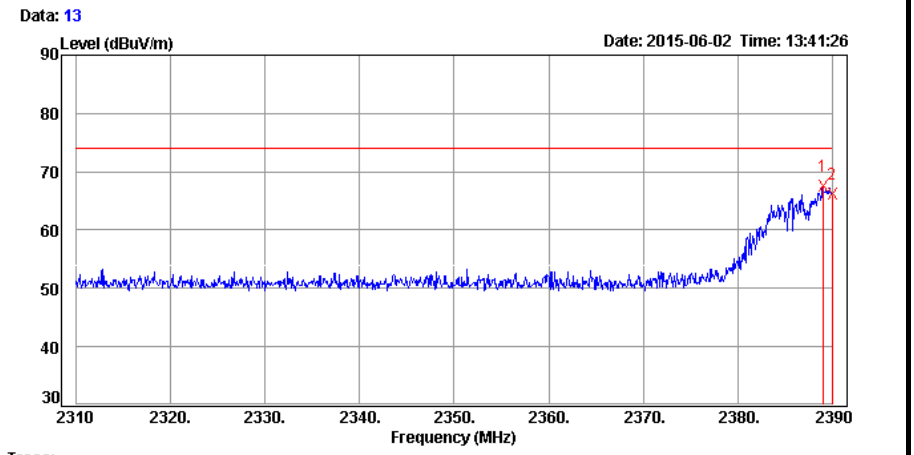
Detector Mode : Peak **Polarity : Horizontal**

CH Low (IEEE 802.11gn HT20 Mode)

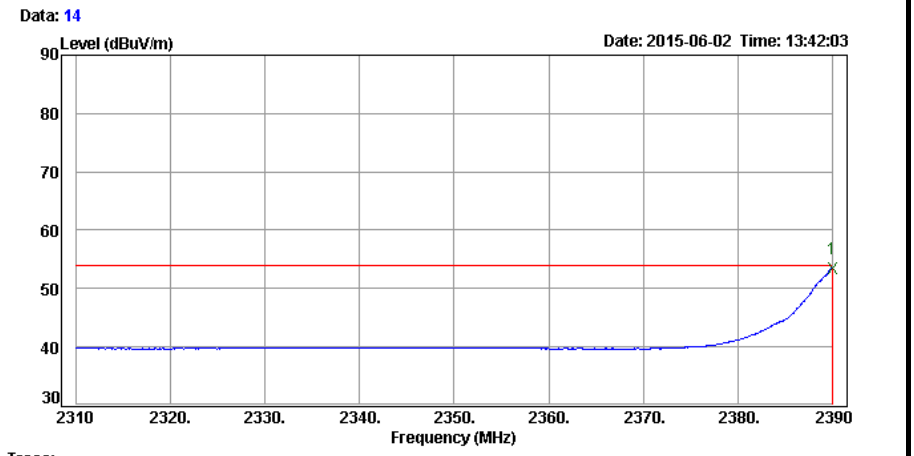


Trace:

Freq. MHz	Reading dBuV	C.F. dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Azimuth deg	Height cm	Remark
2389.04	63.52	4.10	67.62	74.00	-6.38			Peak
2390.00	62.02	4.11	66.13	74.00	-7.87			Peak

Detector Mode : Average **Polarity : Horizontal**

CH Low (IEEE 802.11gn HT20 Mode)



Trace:

Freq. MHz	Reading dBuV	C.F. dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Azimuth deg	Height cm	Remark
2390.00	49.31	4.11	53.42	54.00	-0.58			Average

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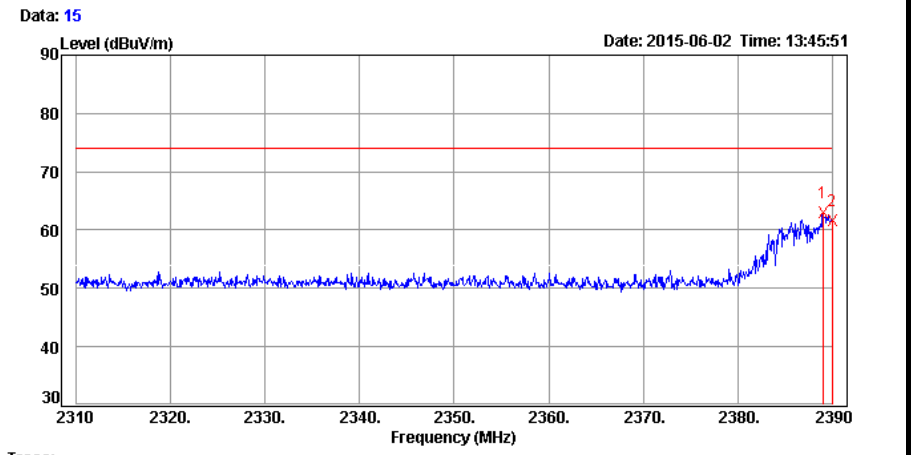
Detector Mode : Peak **Polarity : Vertical**

CH Low (IEEE 802.11gn HT20 Mode)

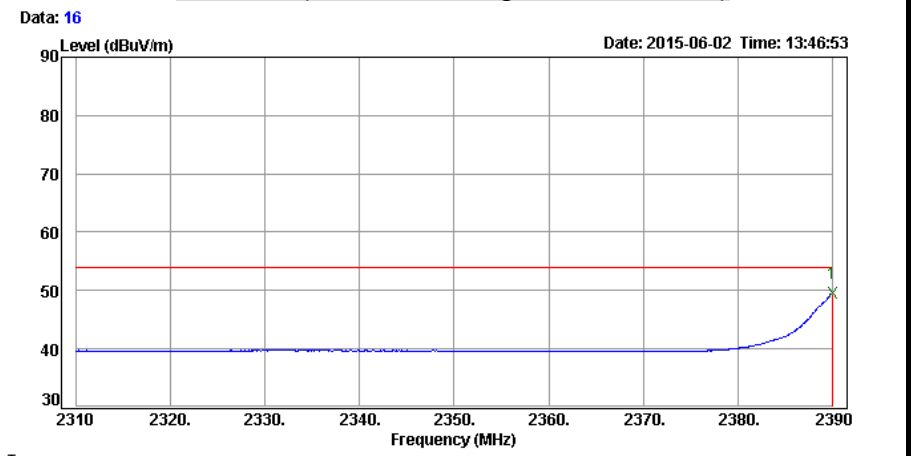


Trace:

Freq. MHz	Reading dBuV	C.F. dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Azimuth deg	Height cm	Remark
2389.04	58.95	4.10	63.05	74.00	-10.95			Peak
2390.00	57.53	4.11	61.64	74.00	-12.36			Peak

Detector Mode : Average **Polarity : Vertical**

CH Low (IEEE 802.11gn HT20 Mode)



Trace:

Freq. MHz	Reading dBuV	C.F. dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Azimuth deg	Height cm	Remark
2390.00	45.29	4.11	49.40	54.00	-4.60			Average

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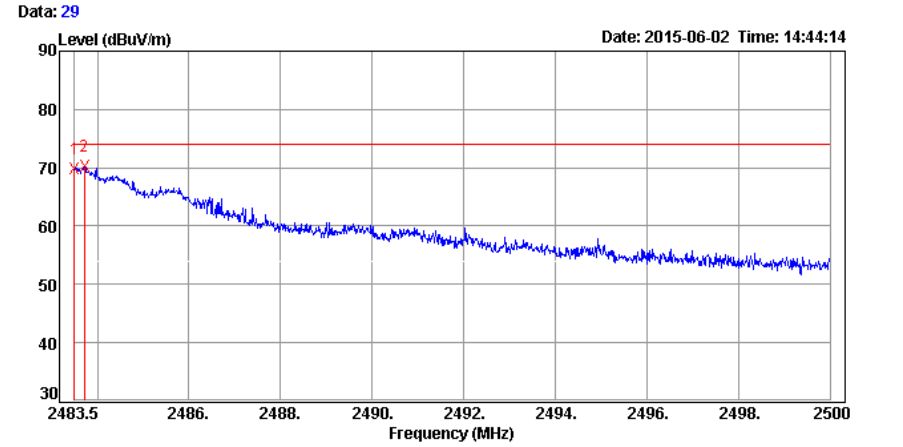
Detector Mode : Peak **Polarity : Horizontal**

CH High (IEEE 802.11gn HT20 Mode)

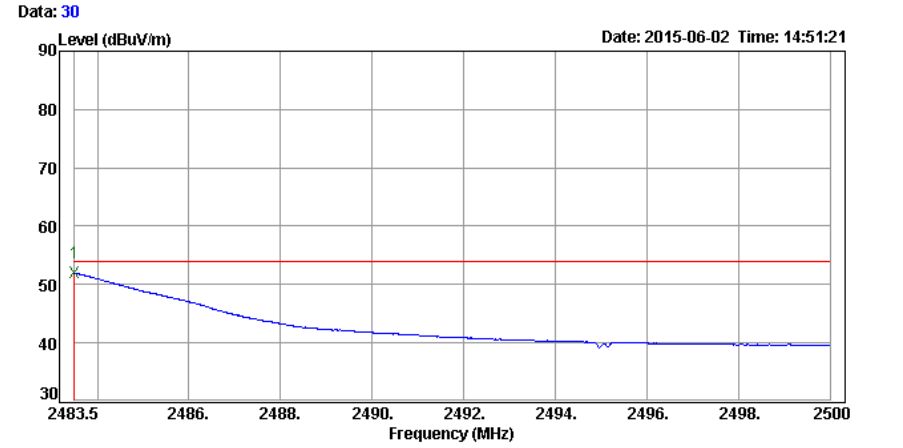


Trace:

Freq. MHz	Reading dBuV	C.F. dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Azimuth deg	Height cm	Remark
2483.50	65.47	4.29	69.76	74.00	-4.24			Peak
2483.72	65.90	4.29	70.19	74.00	-3.81			Peak

Detector Mode : Average **Polarity : Horizontal**

CH High (IEEE 802.11gn HT20 Mode)



Trace:

Freq. MHz	Reading dBuV	C.F. dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Azimuth deg	Height cm	Remark
2483.50	47.65	4.29	51.94	54.00	-2.06			Average

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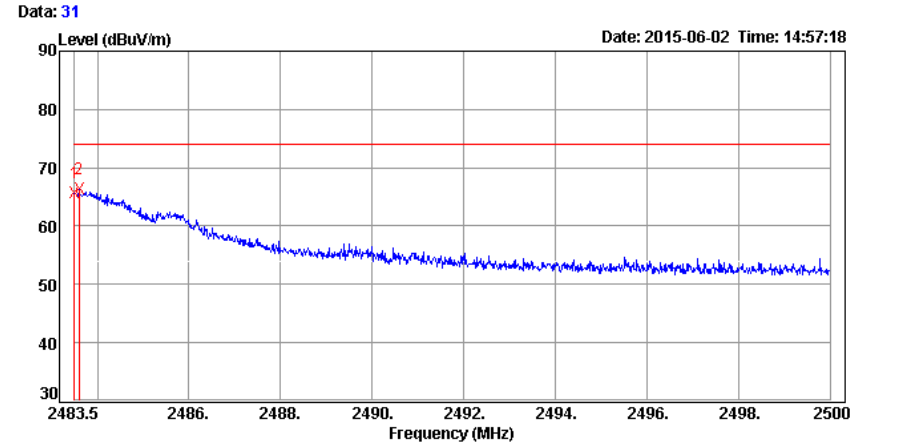
Detector Mode : Peak **Polarity : Vertical**

CH High (IEEE 802.11gn HT20 Mode)

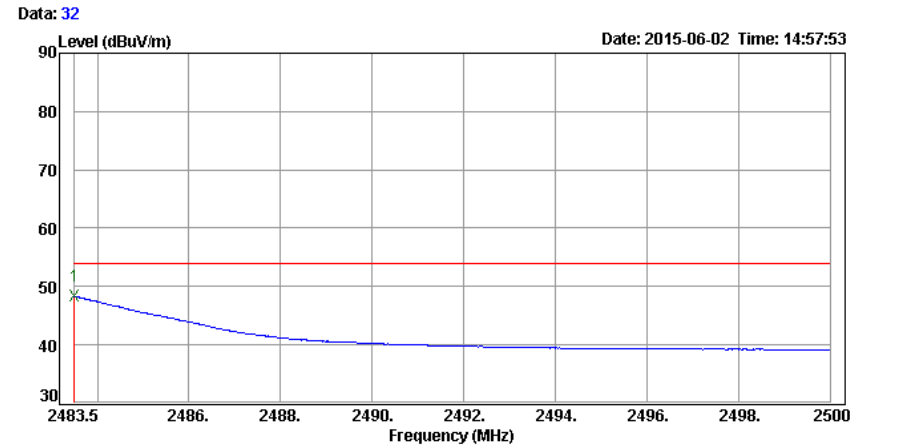


Trace:

Freq. MHz	Reading dBuV	C.F. dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Azimuth deg	Height cm	Remark
2483.50	61.35	4.29	65.64	74.00	-8.36			Peak
2483.60	61.99	4.29	66.28	74.00	-7.72			Peak

Detector Mode : Average **Polarity : Vertical**

CH High (IEEE 802.11gn HT20 Mode)



Trace:

Freq. MHz	Reading dBuV	C.F. dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Azimuth deg	Height cm	Remark
2483.50	44.04	4.29	48.33	54.00	-5.67			Average

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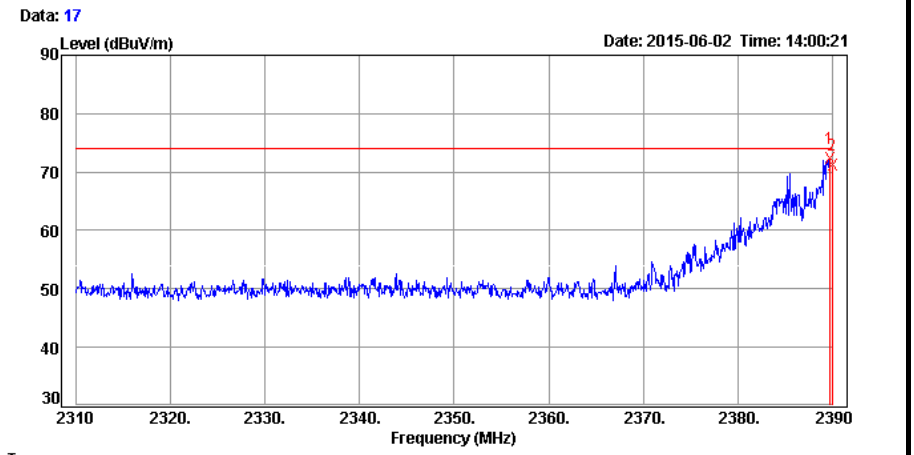
Detector Mode : Peak **Polarity : Horizontal**

CH Low (IEEE 802.11gn HT40 Mode)

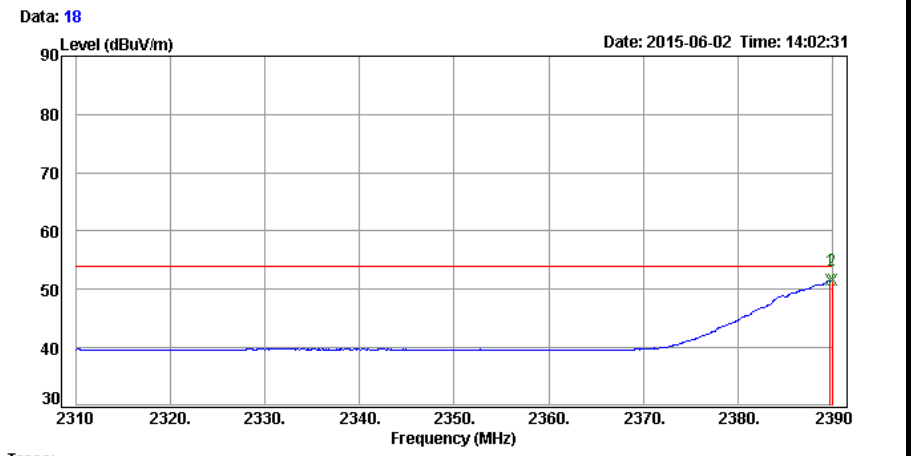


Trace:

Freq. MHz	Reading dBuV	C.F. dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Azimuth deg	Height cm	Remark
2389.76	68.26	4.11	72.37	74.00	-1.63			Peak
2390.00	67.05	4.11	71.16	74.00	-2.84			Peak

Detector Mode : Average **Polarity : Horizontal**

CH Low (IEEE 802.11gn HT40 Mode)



Trace:

Freq. MHz	Reading dBuV	C.F. dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Azimuth deg	Height cm	Remark
2389.84	47.43	4.11	51.54	54.00	-2.46			Average
2390.00	47.42	4.11	51.53	54.00	-2.47			Average

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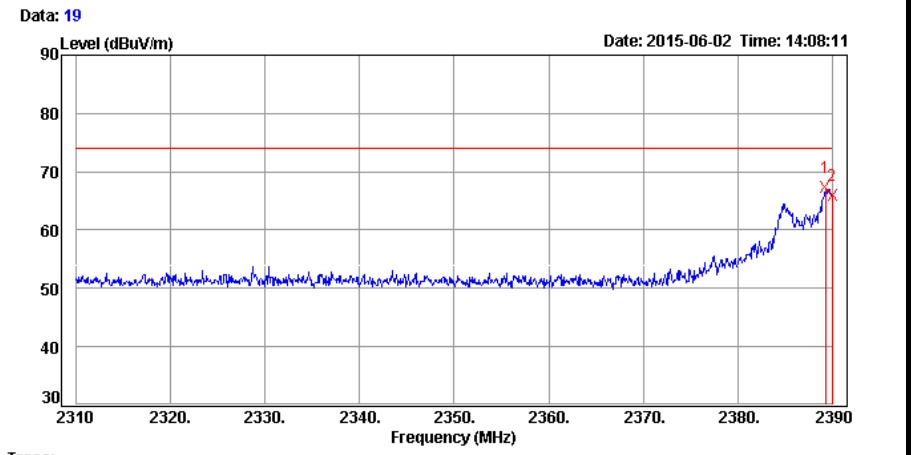
Detector Mode : Peak **Polarity : Vertical**

CH Low (IEEE 802.11gn HT40 Mode)

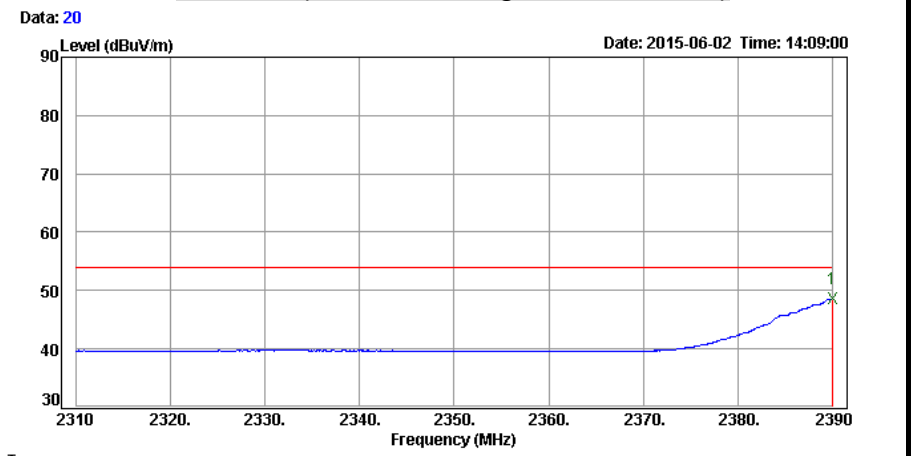


Trace:

Freq. MHz	Reading dBuV	C.F. dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Azimuth deg	Height cm	Remark
2389.28	63.08	4.11	67.19	74.00	-6.81			Peak
2390.00	61.84	4.11	65.95	74.00	-8.05			Peak

Detector Mode : Average **Polarity : Vertical**

CH Low (IEEE 802.11gn HT40 Mode)



Trace:

Freq. MHz	Reading dBuV	C.F. dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Azimuth deg	Height cm	Remark
2390.00	44.41	4.11	48.52	54.00	-5.48			Average

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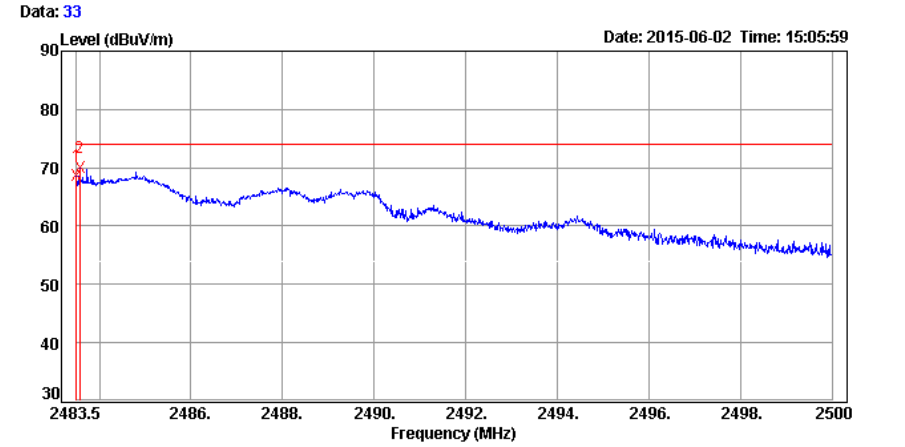
Detector Mode : Peak **Polarity : Horizontal**

CH High (IEEE 802.11gn HT40 Mode)

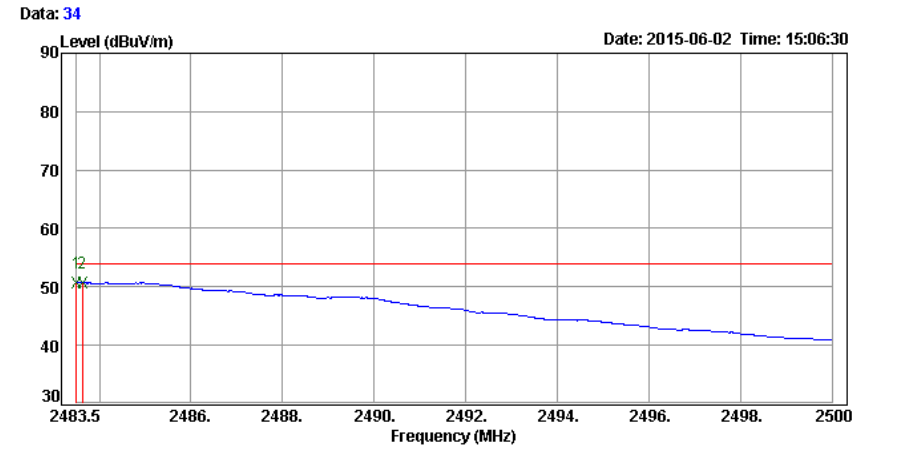


Trace:

Freq. MHz	Reading dBuV	C.F. dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Azimuth deg	Height cm	Remark
2483.50	64.31	4.29	68.60	74.00	-5.40			Peak
2483.57	65.70	4.29	69.99	74.00	-4.01			Peak

Detector Mode : Average **Polarity : Horizontal**

CH High (IEEE 802.11gn HT40 Mode)



Trace:

Freq. MHz	Reading dBuV	C.F. dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Azimuth deg	Height cm	Remark
2483.50	46.43	4.29	50.72	54.00	-3.28			Average
2483.63	46.44	4.29	50.73	54.00	-3.27			Average

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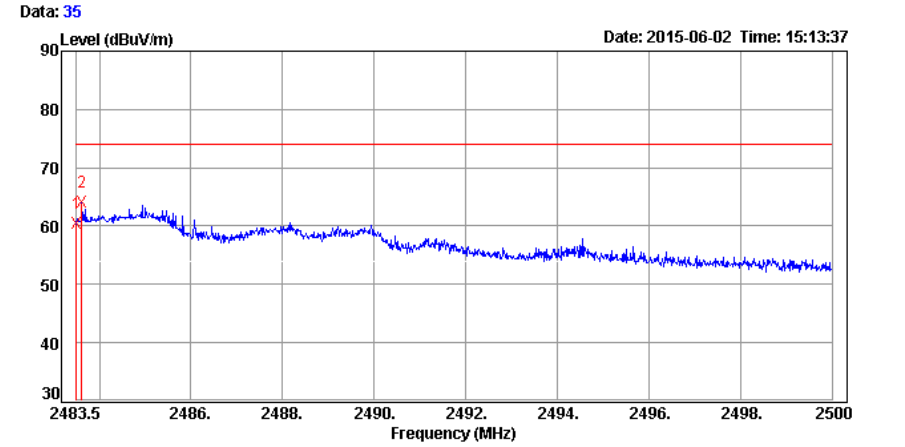
Detector Mode : Peak **Polarity : Vertical**

CH High (IEEE 802.11gn HT40 Mode)

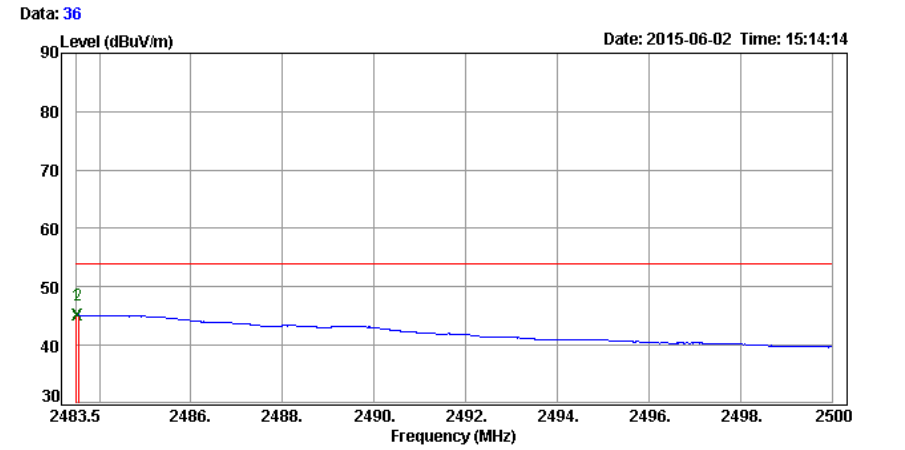


Trace:

Freq. MHz	Reading dBuV	C.F. dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Azimuth deg	Height cm	Remark
2483.50	56.13	4.29	60.42	74.00	-13.58			Peak
2483.62	59.80	4.29	64.09	74.00	-9.91			Peak

Detector Mode : Average **Polarity : Vertical**

CH High (IEEE 802.11gn HT40 Mode)



Trace:

Freq. MHz	Reading dBuV	C.F. dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Azimuth deg	Height cm	Remark
2483.50	40.85	4.29	45.14	54.00	-8.86			Average
2483.53	40.89	4.29	45.18	54.00	-8.82			Average

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7.7 CONDUCTED EMISSION

LIMITS

§ 15.207 (a) Except as shown in paragraph (b) and (c) this section, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table, as measured using a 50 μH/50 ohms line impedance stabilization network (LISN). Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower limit applies at the boundary between the frequency ranges.

Frequency Range (MHz)	Conducted Limit (dBμv)	
	Quasi-peak	Average
0.15 - 0.50	66 to 56	56 to 46
0.50 - 5.00	56	46
5.00 - 30.0	60	50

TEST EQUIPMENT

Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
L.I.S.N	SCHWARZBECK	NSLK 8127	8127465	08/06/2015
L.I.S.N	SCHWARZBECK	NSLK 8127	8127473	03/09/2016
EMI Test Receiver	ROHDE & SCHWARZ	ESHS 30	838550/003	11/02/2015
Pulse Limiter	ROHDE & SCHWARZ	ESH3-Z2	100111	06/28/2016

Remark: *Each piece of equipment is scheduled for calibration once a year.*

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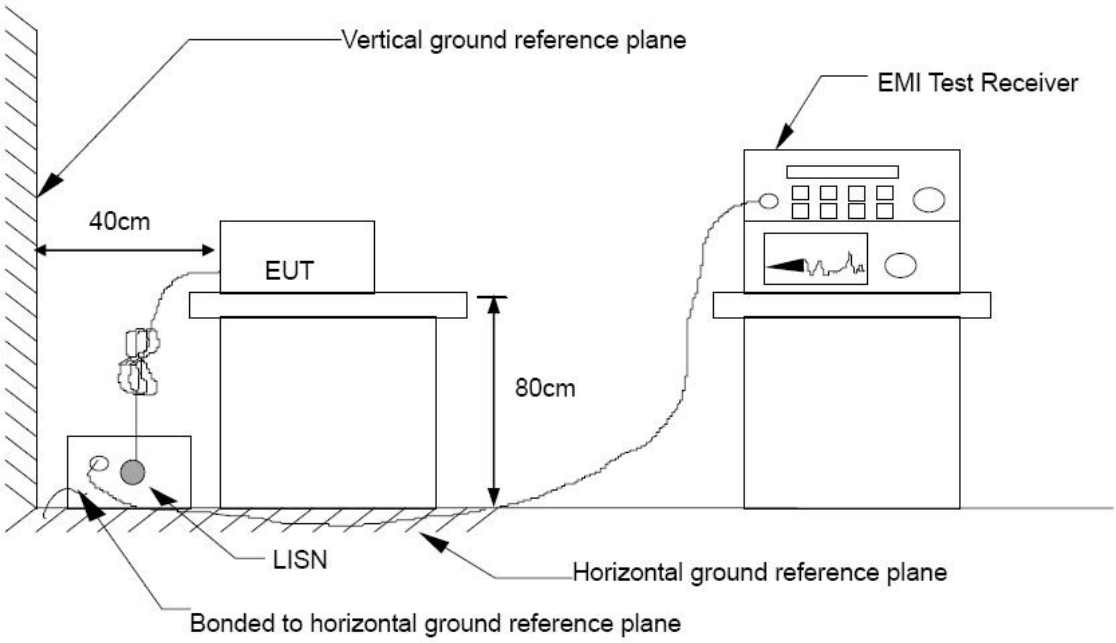
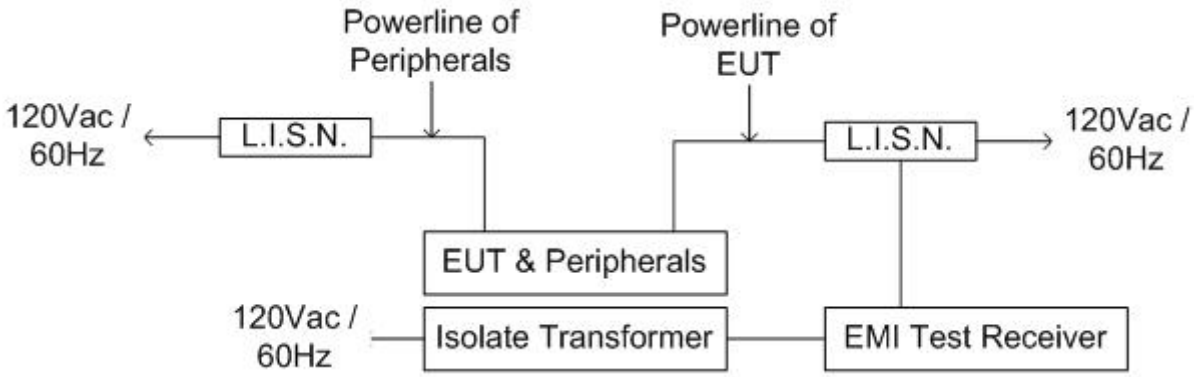
TEST SETUP





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TEST PROCEDURE

The basic test procedure was in accordance with ANSI C63.10:2013.

The test procedure is performed in a 4m × 3m × 2.4m (L×W×H) shielded room.

The EUT along with its peripherals were placed on a 1.0m (W) × 1.5m (L) and 0.8m in height wooden table and the EUT was adjusted to maintain a 0.4 meter space from a vertical reference plane.

The EUT was connected to power mains through a line impedance stabilization network (LISN) which provides 50 ohm coupling impedance for measuring instrument and the chassis ground was bounded to the horizontal ground plane of shielded room. All peripherals were connected to the second LISN and the chassis ground also bounded to the horizontal ground plane of shielded room.

The EUT was located so that the distance between the boundary of the EUT and the closest surface of the LISN is 0.8 m. Where a mains flexible cord was provided by the manufacturer shall be 1 m long, or if in excess of 1 m, the excess cable was folded back and forth as far as possible so as to form a bundle not exceeding 0.4 m in length.

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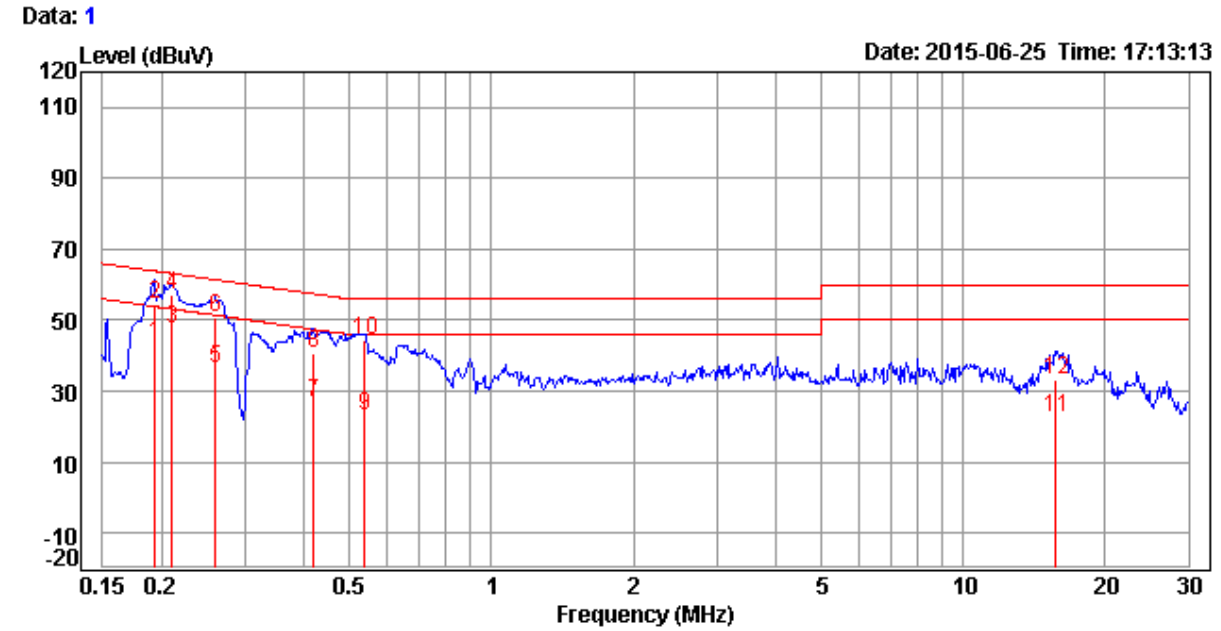
TEST RESULTS

Product Name	Computer	Test By	Crystal Wu
Test Model	POC127	Test Date	2015/06/25
Test Mode	TX Mode	Temp. & Humidity	21.8°C, 64%

LINE



Trace:

Freq. MHz	Reading dBuV Q.P.	Reading dBuV AV.	C.F. dB	Result dBuV Q.P.	Result dBuV AV.	Limit dBuV Q.P.	Limit dBuV AV.	Margin dB Q.P.	Margin dB AV.
0.193	44.84	33.60	9.89	54.73	43.49	63.92	53.92	-9.19	-10.43
0.210	47.34	37.54	9.89	57.23	47.43	63.20	53.20	-5.97	-5.77
0.260	41.00	26.46	9.90	50.90	36.36	61.42	51.42	-10.52	-15.06
0.419	30.71	16.99	9.93	40.64	26.92	57.46	47.46	-16.82	-20.54
0.537	34.25	13.14	9.94	44.19	23.08	56.00	46.00	-11.81	-22.92
15.635	22.64	12.22	10.59	33.23	22.81	60.00	50.00	-26.77	-27.19

Remark:

1. Correction Factor = Insertion loss + Cable loss
2. Result level = Reading Value + Correction factor
3. Margin value = Result level – Limit value

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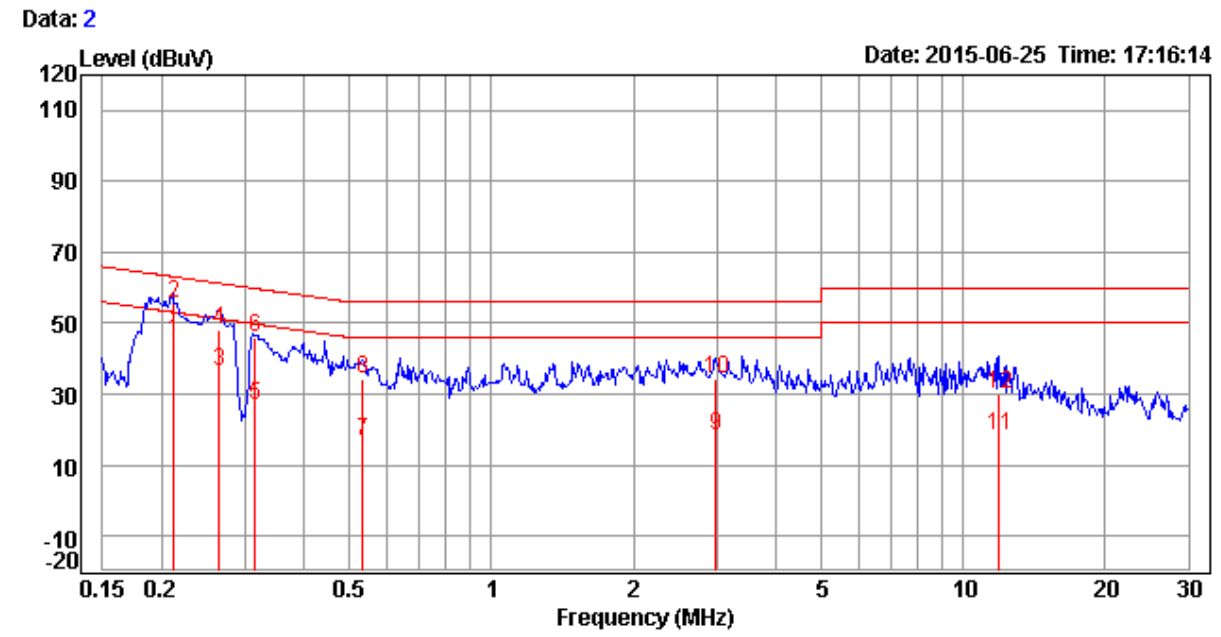
Product Name	Computer	Test By	Crystal Wu
Test Model	POC127	Test Date	2015/06/25
Test Mode	TX Mode	Temp. & Humidity	21.8°C, 64%

NEUTRAL



Trace:

Freq. MHz	Reading dBuV Q.P.	Reading dBuV AV.	C.F. dB	Result dBuV Q.P.	Result dBuV AV.	Limit dBuV Q.P.	Limit dBuV AV.	Margin dB Q.P.	Margin dB AV.
0.212	45.66	35.13	9.91	55.57	45.04	63.15	53.15	-7.58	-8.11
0.264	38.44	26.24	9.92	48.36	36.16	61.29	51.29	-12.93	-15.13
0.314	35.97	16.67	9.93	45.90	26.60	59.87	49.87	-13.97	-23.27
0.532	24.27	7.02	9.96	34.23	16.98	56.00	46.00	-21.77	-29.02
2.978	24.38	8.34	10.08	34.46	18.42	56.00	46.00	-21.54	-27.58
11.933	19.79	7.98	10.34	30.13	18.32	60.00	50.00	-29.87	-31.68

Remark:

1. *Correction Factor = Insertion loss + Cable loss*
2. *Result level = Reading Value + Correction factor*
3. *Margin value = Result level – Limit value*

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