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Report No.: SZEM130300094703
Page: 1 of 70

FCC REPORT

Application No:	SZEM1403001327RF
Applicant:	Qingyuan Gadmei Electronics Technology Co., Ltd.
Manufacturer:	Qingyuan Gadmei Electronics Technology Co., Ltd.
Factory:	Qingyuan Gadmei Electronics Technology Co., Ltd.
Product Name:	Tablet PC
Model No.(EUT):	E8-HD
Add Model No.:	E8S, F8, N8, M80E, TL80S, E8-HD Elite, T8003
Trade mark:	GADMEI
FCC ID:	VHH-E8-HDM80E
Standards:	47 CFR Part 15, Subpart C (2013) (Only for the Antenna Requirement, AC Power Line Conducted Emission, Conducted Peak Output Power, Radiated Spurious Emissions and Band Edge (Radiated Emission) tests)
Date of Receipt:	2014-04-02
Date of Test:	2014-04-18 to 2014-04-24
Date of Issue:	2014-05-07

Test Result:	PASS *
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* In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:



Jack Zhang
EMC Laboratory Manager

The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of SGS International Electrical Approvals or testing done by SGS International Electrical Approvals in connection with, distribution or use of the product described in this report must be approved by SGS International Electrical Approvals in writing.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government. All test results in this report can be traceable to National or International Standards.

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2 Test Summary

Test Item	Test Requirement	Test method	Result
Antenna Requirement	47 CFR Part 15, Subpart C Section 15.203/15.247 (c)	KDB558074 D01	PASS
AC Power Line Conducted Emission	47 CFR Part 15, Subpart C Section 15.207	ANSI C63.4-2009+KDB 558074 D01	PASS
Conducted Peak Output Power	47 CFR Part 15, Subpart C Section 15.247 (b)(3)	KDB558074 D01	PASS
Radiated Spurious Emissions	47 CFR Part 15, Subpart C Section 15.205/15.209	KDB558074 D01	PASS
Band Edge (Radiated Emission)	47 CFR Part 15, Subpart C Section 15.205/15.209	KDB558074 D01	PASS

Remark:

Model No.: E8-HD, E8S, F8, N8, M80E, TL80S, E8-HD Elite, T8003

Only the model E8-HD was tested, since the electrical circuit design, layout, components used and internal wiring were identical for all above models. Only different on Model No ,Color, Plastic Enclosure and Optional accessories.

This test report (Ref. No.: SZEM130300094703) is only valid with the original test report (Ref. No.: SZEM130300094701).

Review this report and original report, this report just changing the product name, address of applicant, manufacturer and factory, added a new Battery on the basis of the original product and updated the standard.

Considering to the difference, pre-scan were performed on the sample in this report to find the items which can be influential to the result in the original test report for fully retest.

Therefore in this report Antenna Requirement, AC Power Line Conducted Emission, Conducted Peak Output Power, Radiated Spurious Emissions and Band Edge (Radiated Emission) were fully retested on Model E8-HD and shown the data in this report, other tests please refer to original report SZEM130300094701.

Updated the below standards:

Original report standard	The newest report standard
47 CFR Part 15, Subpart C (2011)	47 CFR Part 15, Subpart C (2013)

Reviewed the updated standard, all the technical requirements for the EUT are identical between the original and the newest standard.

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4 General Information

4.1 Client Information

Applicant:	Qingyuan Gadmei Electronics Technology Co., Ltd.
Address of Applicant:	YinZhan Forest ,QingCheng ,QingYuan ,Guangdong , China
Manufacturer:	Qingyuan Gadmei Electronics Technology Co., Ltd.
Address of Manufacturer:	YinZhan Forest ,QingCheng ,QingYuan ,Guangdong , China
Factory:	Qingyuan Gadmei Electronics Technology Co., Ltd.
Address of Factory:	YinZhan Forest ,QingCheng ,QingYuan ,Guangdong , China

4.2 General Description of EUT

Product Name:	Tablet PC
Model No.:	E8-HD, E8S, F8, N8, M80E, TL80S, E8-HD Elite, T8003
Trade Mark:	GADMEI
Operation Frequency:	IEEE 802.11b/g/n(HT20): 2412MHz to 2462MHz IEEE 802.11n(HT40): 2422MHz to 2452MHz
Channel Numbers:	IEEE 802.11b/g, IEEE 802.11n HT20: 11 Channels IEEE 802.11n HT40: 7 Channels
Channel Separation:	5MHz
Type of Modulation:	IEEE for 802.11b: DSSS(CCK,DQPSK,DBPSK) IEEE for 802.11g : OFDM(64QAM, 16QAM, QPSK, BPSK) IEEE for 802.11n(HT20 and HT40) : OFDM (64QAM, 16QAM, QPSK,BPSK)
Sample Type:	Portable production
EUT Function:	Tablet PC
Test Power Grade:	b=33,g=33,n=33(manufacturer declare)
Test Software of EUT:	Realtek (manufacturer declare)
Antenna Type:	Integral
Antenna Gain:	2.3dBi

Power Supply:	Model:PA010B-05020US Input: AC 100-240V 50/60Hz 0.4A Output: 5V --- 2.0A 3.7V 5000mAh (Li-ion Rechargeable Battery)
Test Voltage:	120V~ 60Hz
USB Cable:	94cm(shielded with two ferrite)
DC Cable:	142cm(unshielded with one ferrite)

Operation Frequency each of channel(802.11b/g/n HT20)							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2412MHz	4	2427MHz	7	2442MHz	10	2457MHz
2	2417MHz	5	2432MHz	8	2447MHz	11	2462MHz
3	2422MHz	6	2437MHz	9	2452MHz		

Operation Frequency each of channel(802.11n HT40)					
Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2422MHz	4	2437MHz	7	2452MHz
2	2427MHz	5	2442MHz		
3	2432MHz	6	2447MHz		

Note:

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

For 802.11b/g/n (HT20):

Channel	Frequency
The Lowest channel	2412MHz
The Middle channel	2437MHz
The Highest channel	2462MHz

For 802.11n (HT40):

Channel	Frequency
The Lowest channel	2422MHz
The Middle channel	2437MHz
The Highest channel	2452MHz



4.3 Test Environment and Mode

Operating Environment:	
Temperature:	24.0 °C
Humidity:	52 % RH
Atmospheric Pressure:	1010 mbar
Test mode:	
Transmitting mode:	The EUT transmitted the continuous modulation test signal at the specific channel(s).

4.4 Description of Support Units

The EUT has been tested independent unit.

4.5 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen Branch E&E Lab,
No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, Guangdong, China.
518057.

Tel: +86 755 2601 2053 Fax: +86 755 2671 0594

No tests were sub-contracted.

4.6 Test Facility

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

- **CNAS (No. CNAS L2929)**

CNAS has accredited SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch EMC Lab to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

- **VCCI**

The 3m Semi-anechoic chamber, Full-anechoic Chamber and Shielded Room (7.5m x 4.0m x 3.0m) of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-2197, G-416, T-1153 and C-2383 respectively.

- **FCC – Registration No.: 556682**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration No.: 556682.

- **Industry Canada (IC)**

Two 3m Semi-anechoic chambers of SGS-CSTC Standards Technical Services Co., Ltd. have been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 4620C-1 & 4620C-2.

4.7 Deviation from Standards

None.

4.8 Abnormalities from Standard Conditions

None.

4.9 Other Information Requested by the Customer

None.

4.10 Equipment List

Conducted Emission					
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Due date (yyyy-mm-dd)
1	Shielding Room	ZhongYu Electron	GB-88	SEL0042	2014-06-10
2	LISN	Rohde & Schwarz	ENV216	SEL0152	2014-10-24
3	LISN	ETS-LINDGREN	3816/2	SEL0021	2014-05-16
4	8 Line ISN	Fischer Custom Communications Inc.	FCC-TLISN-T8-02	SEL0162	2014-11-10
5	4 Line ISN	Fischer Custom Communications Inc.	FCC-TLISN-T4-02	SEL0163	2014-11-10
6	2 Line ISN	Fischer Custom Communications Inc.	FCC-TLISN-T2-02	SEL0164	2014-11-10
7	EMI Test Receiver	Rohde & Schwarz	ESCI	SEL0022	2014-05-16
8	Coaxial Cable	SGS	N/A	SEL0025	2014-05-29
9	DC Power Supply	Zhao Xin	RXN-305D	SEL0117	2014-10-24
10	Humidity/ Temperature Indicator	Shanghai Qixiang	ZJ1-2B	SEL0103	2014-10-24
11	Barometer	Chang Chun	DYM3	SEL0088	2014-05-24



RE in Chamber					
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Due date (yyyy-mm-dd)
1	3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEL0017	2014-06-10
2	EMI Test Receiver	Rohde & Schwarz	ESIB26	SEL0023	2014-05-16
3	EMI Test software	AUDIX	E3	SEL0050	N/A
4	BiConiLog Antenna (26-3000MHz)	ETS-LINDGREN	3142C	SEL0015	2014-10-24
5	Double-ridged horn (1-18GHz)	ETS-LINDGREN	3117	SEL0006	2014-10-24
6	Horn Antenna (18-26GHz)	ETS-LINDGREN	3160	SEL0076	2014-10-24
7	Pre-amplifier (0.1-1300MHz)	Agilent Technologies	8447D	SEL0053	2014-05-16
8	Pre-Amplifier (0.1-26.5GHz)	Compliance Directions Systems Inc.	PAP-0126	SEL0168	2014-10-24
9	Coaxial cable	SGS	N/A	SEL0027	2014-05-29
10	Coaxial cable	SGS	N/A	SEL0189	2014-05-29
11	Coaxial cable	SGS	N/A	SEL0121	2014-05-29
12	Coaxial cable	SGS	N/A	SEL0178	2014-05-29
13	Band filter	Amindeon	82346	SEL0094	2014-05-16
14	Barometer	Chang Chun	DYM3	SEL0088	2014-05-24
15	DC Power Supply	Zhao Xin	RXN-305D	SEL0117	2014-10-24
16	Humidity/ Temperature Indicator	Shanghai Qixiang	ZJ1-2B	SEL0103	2014-10-24
17	Signal Generator (10M-27GHz)	Rohde & Schwarz	SMR27	SEL0067	2014-05-16
18	Signal Generator	Rohde & Schwarz	SMY01	SEL0155	2014-10-24
19	Loop Antenna	Beijing Daze	ZN30401	SEL0203	2014-06-04

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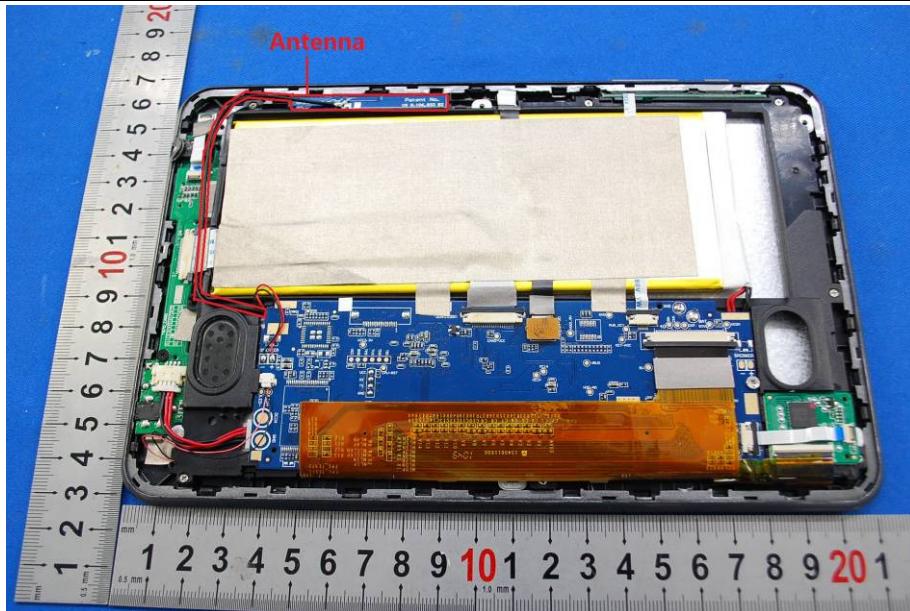


RF connected test					
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Due date (yyyy-mm-dd)
1	DC Power Supply	Zhao Xin	RXN-305D	SEL0117	2014-10-24
2	Humidity/ Temperature Indicator	HYGRO	ZJ1-2B	SEL0033	2014-10-24
3	Spectrum Analyzer	Rohde & Schwarz	FSP	SEL0154	2014-10-24
4	Coaxial cable	SGS	N/A	SEL0178	2014-05-29
5	Coaxial cable	SGS	N/A	SEL0179	2014-05-29
6	Barometer	ChangChun	DYM3	SEL0088	2014-05-24
7	Signal Generator	Rohde & Schwarz	SML03	SEL0068	2014-05-16
8	Band filter	amideon	82346	SEL0094	2014-05-16
9	POWER METER	R & S	NRVS	SEL0144	2014-10-24
10	Attenuator	Beijin feihang taida	TST-2-6dB	SEL0205	2014-05-16
11	Power Divider(splitter)	Agilent Technologies	11636B	SEL0130	2014-10-24

Note: The calibration interval is one year, all the instruments are valid.

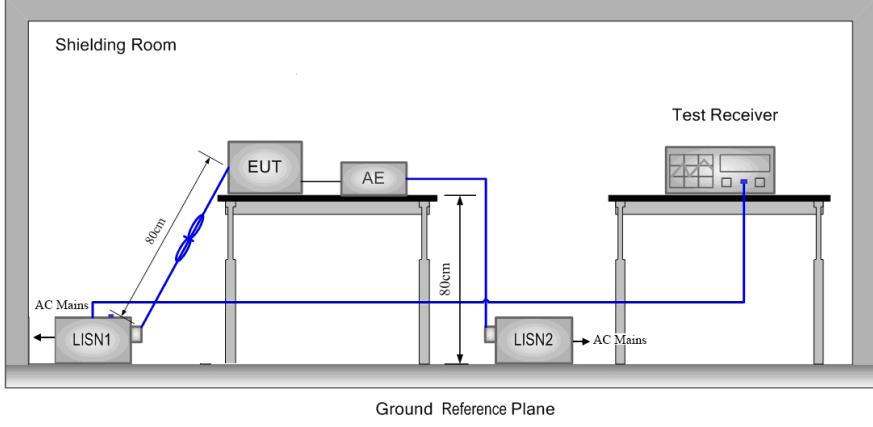
5 Test results and Measurement Data

5.1 Antenna Requirement

Standard requirement:	47 CFR Part 15C Section 15.203 /247(c)
15.203 requirement:	An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.
15.247(b) (4) requirement:	The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (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.
EUT Antenna:	
	The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is 2.3dBi.
	

5.2 Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.207					
Test Method:	ANSI C63.4-2009+KDB 558074 D01					
Test Frequency Range:	150kHz to 30MHz					
Limit:	Frequency range (MHz)		Limit (dBuV)			
			Quasi-peak	Average		
	0.15-0.5	66 to 56*		56 to 46*		
	0.5-5	56		46		
5-30		60		50		
* Decreases with the logarithm of the frequency.						
Test Procedure:	<ol style="list-style-type: none">1) The mains terminal disturbance voltage test was conducted in a shielded room.2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a $50\Omega/50\mu\text{H} + 5\Omega$ linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane,4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10: 2009 on conducted measurement.					

Test Setup:	
Test Mode:	Transmitting mode
Instruments Used:	Refer to section 4.10 for details
Test Results:	Pass

Measurement Data

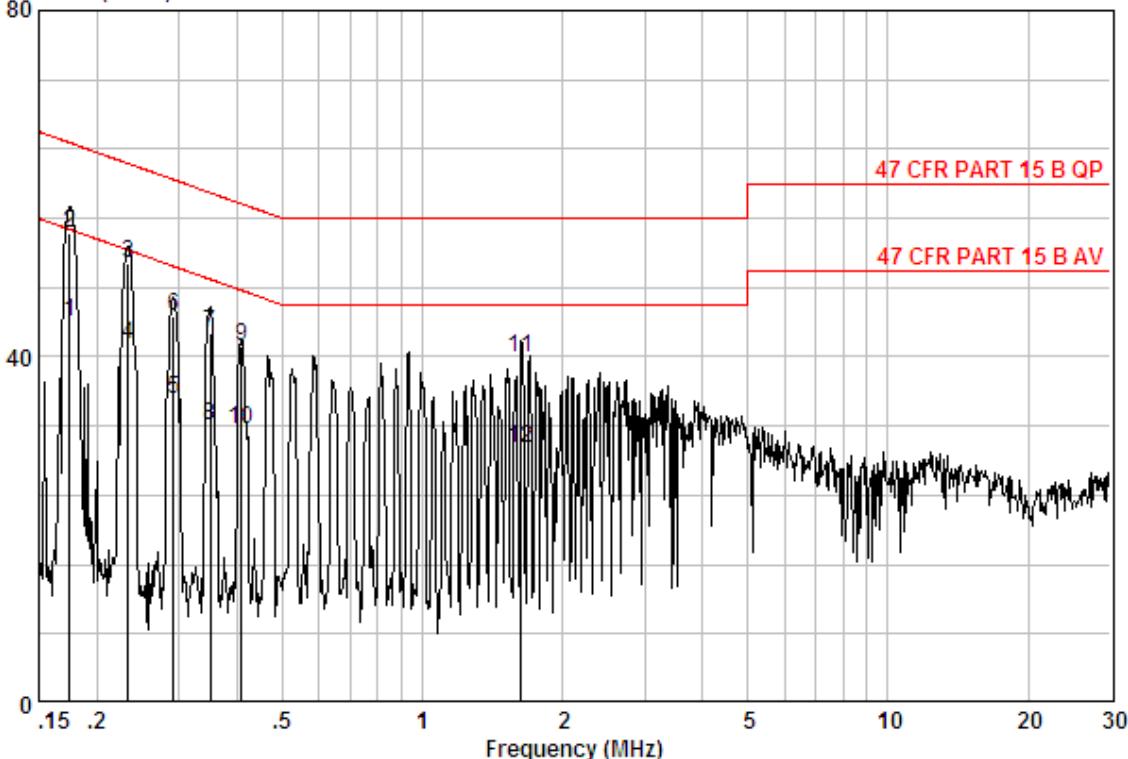
An initial pre-scan was performed on the live and neutral lines with peak detector.

Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.

Live Line:

Data: 281

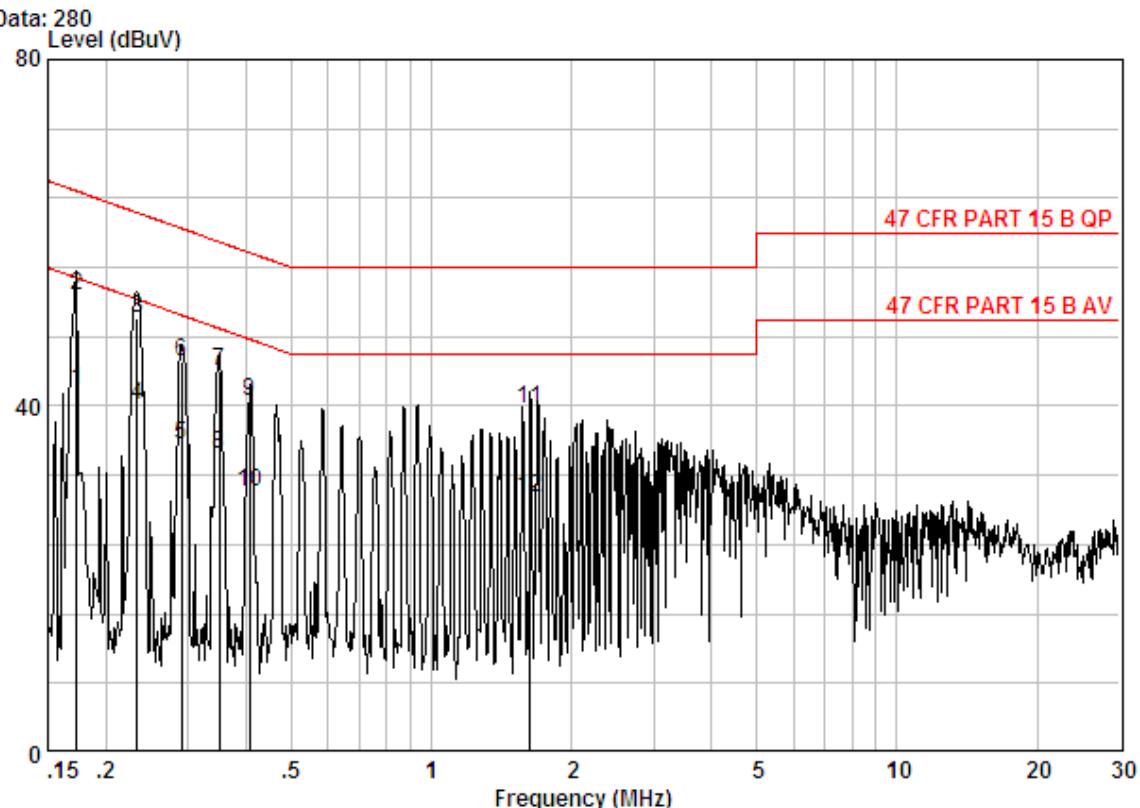
Level (dBuV)



Site : Shielding Room
Condition : 47 CFR PART 15 B QP CE LINE
Job No. : 1327RF
Mode : TX

1 0	0.17491	0.02	9.70	34.28	44.00	54.72	-10.72	Over
								Remark
Freq	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
2 0	0.17491	0.02	9.70	44.53	54.25	64.72	-10.48	QP
3 0	0.23285	0.02	9.70	41.06	50.78	62.35	-11.57	QP
4 0	0.23285	0.02	9.70	31.65	41.37	52.35	-10.98	Average
5	0.29243	0.01	9.70	25.39	35.10	50.46	-15.35	Average
6	0.29243	0.01	9.70	35.06	44.77	60.46	-15.68	QP
7	0.35015	0.01	9.75	32.96	42.72	58.96	-16.23	QP
8	0.35015	0.01	9.75	22.28	32.04	48.96	-16.92	Average
9	0.40831	0.01	9.80	31.29	41.10	57.68	-16.58	QP
10	0.40831	0.01	9.80	21.69	31.50	47.68	-16.18	Average
11	1.628	0.02	9.80	29.98	39.80	56.00	-16.20	QP
12	1.628	0.02	9.80	19.63	29.45	46.00	-16.55	Average

Neutral Line:



Site : Shielding Room
Condition : 47 CFR PART 15 B QP CE NEUTRAL
Job No. : 1327RF
Mode : TX

	Freq	Cable	LISN	Read	Limit	Over	Remark
		MHz	Loss	Factor	Level	Level	
1	0.17307	0.02	9.70	32.24	41.96	54.81	-12.85 Average
2	0.17307	0.02	9.70	42.96	52.68	64.81	-12.13 QP
3	0.23285	0.02	9.70	40.41	50.13	62.35	-12.22 QP
4	0.23285	0.02	9.70	30.34	40.06	52.35	-12.29 Average
5	0.29088	0.01	9.70	25.85	35.56	50.50	-14.94 Average
6	0.29088	0.01	9.70	35.38	45.09	60.50	-15.41 QP
7	0.35015	0.01	9.75	34.20	43.96	58.96	-15.00 QP
8	0.35015	0.01	9.75	24.65	34.41	48.96	-14.55 Average
9	0.40615	0.01	9.80	30.74	40.55	57.73	-17.17 QP
10	0.40615	0.01	9.80	20.28	30.09	47.73	-17.64 Average
11	1.628	0.02	9.80	29.77	39.59	56.00	-16.41 QP
12	1.628	0.02	9.80	19.66	29.48	46.00	-16.52 Average

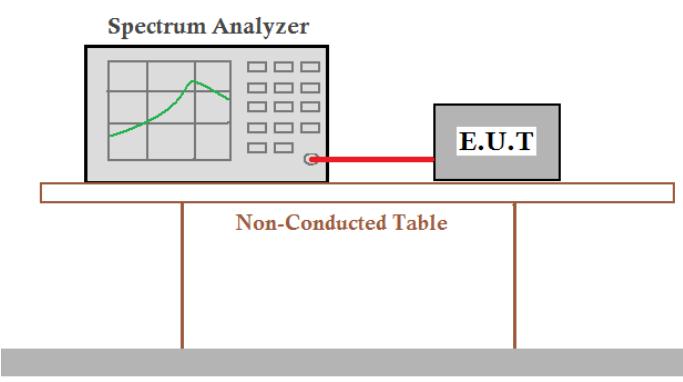
Notes:

1. The following Quasi-Peak and Average measurements were performed on the EUT:
2. Final Test Level = Receiver Reading + LISN Factor + Cable Loss.

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5.3 Conducted Peak Output Power

Test Requirement:	47 CFR Part 15C Section 15.247 (b)(3)
Test Method:	KDB558074 D01
Test Setup:	 <p>Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane</p>
Remark:	<i>Offset the High-Frequency cable loss 1.5dB in the spectrum analyzer.</i>
Test Instruments:	Refer to section 4.10 for details
Exploratory Test Mode:	Transmitting mode
Final Test Mode:	Through Pre-scan, 11Mbps of rate is the worst case of 802.11b; 54Mbps of rate is the worst case of 802.11g; 65Mbps of rate is the worst case of 802.11n (HT20); 150Mbps of rate is the worst case of 802.11n (HT40).
Limit:	30dBm
Test Results:	Pass

Pre-scan under all rate at lowest channel 1								
Mode	802.11b							
Data Rate	1Mbps	2Mbps	5.5Mbps	11Mbps				
EIRP(dBm)	13.69	13.95	13.98	14.19				
Mode	802.11g							
Data Rate	6Mbps	9Mbps	12Mbps	18Mbps	24Mbps	36Mbps	48Mbps	54Mbps
EIRP(dBm)	13.40	13.42	13.45	13.49	13.52	13.56	13.60	13.66
Mode	802.11n(HT20)							
Data Rate	6.5Mbps	13Mbps	19.5Mbps	26Mbps	39Mbps	52Mbps	58.5Mbps	65Mbps
EIRP(dBm)	13.05	13.08	13.12	13.15	13.18	13.20	13.25	13.31
Mode	802.11n(HT40)							
Data Rate	15Mbps	30Mbps	45Mbps	60Mbps	90Mbps	120Mbps	135Mbps	150Mbps
EIRP(dBm)	12.98	13.02	13.04	13.11	13.18	13.24	13.28	13.31

Through Pre-scan, 11Mbps of rate is the worst case of 802.11b; 54Mbps of rate is the worst case of 802.11g; 65Mbps of rate is the worst case of 802.11n (HT20); 150Mbps of rate is the worst case of 802.11n (HT40).

Measurement Data

802.11b mode			
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result
Lowest	14.19	30.00	Pass
Middle	14.67	30.00	Pass
Highest	15.10	30.00	Pass

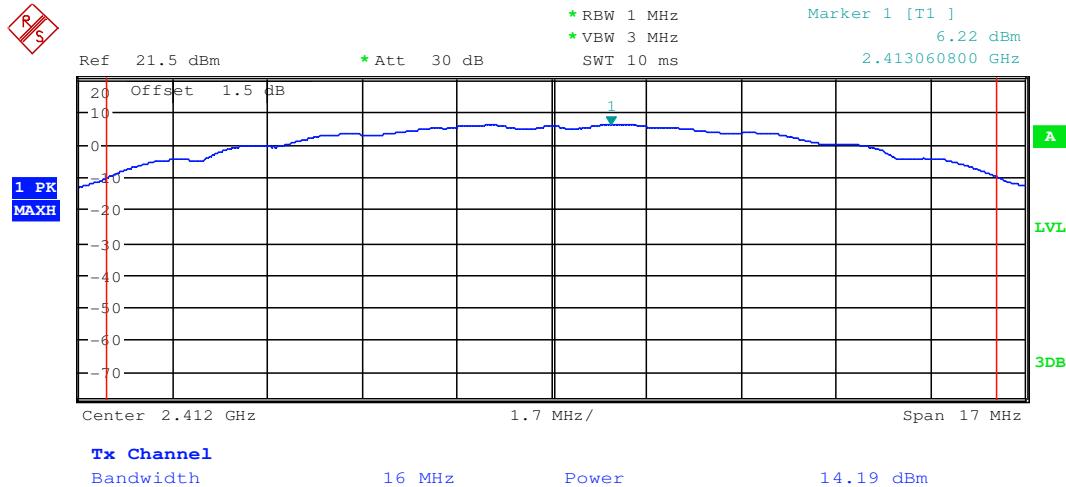
802.11g mode			
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result
Lowest	13.66	30.00	Pass
Middle	14.21	30.00	Pass
Highest	14.60	30.00	Pass

802.11n(HT20)mode			
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result
Lowest	13.31	30.00	Pass
Middle	13.82	30.00	Pass
Highest	14.21	30.00	Pass

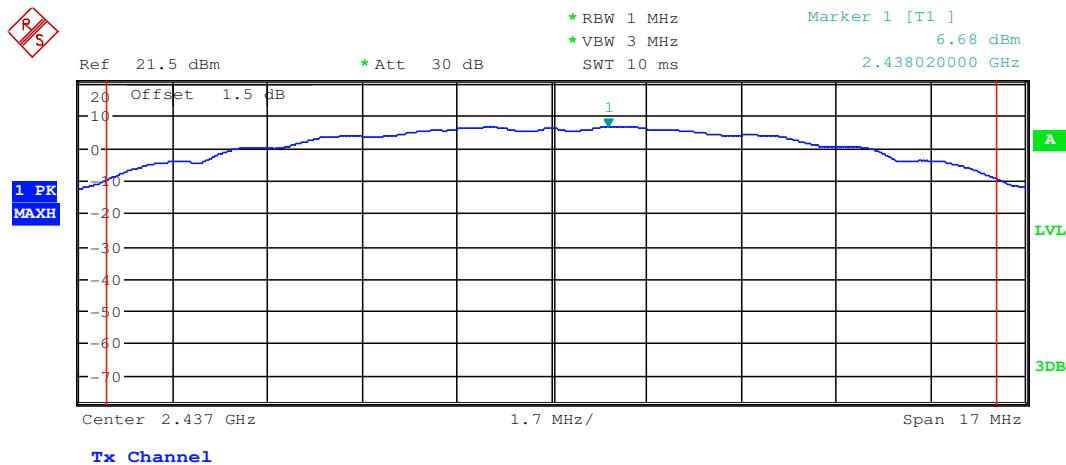
802.11n(HT40)mode			
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result
Lowest	13.31	30.00	Pass
Middle	13.59	30.00	Pass
Highest	13.88	30.00	Pass

Test plot as follows:

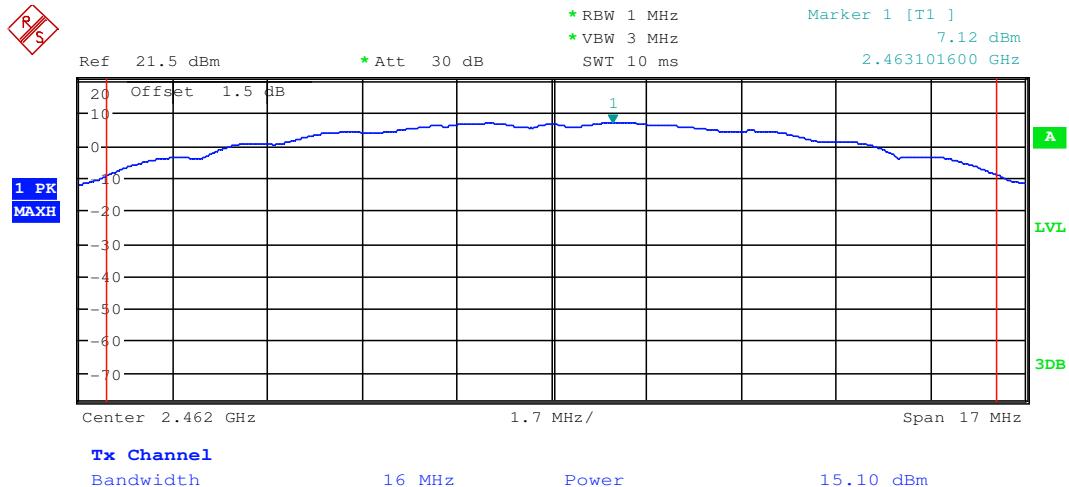
Test mode:	802.11b	Test channel:	Lowest
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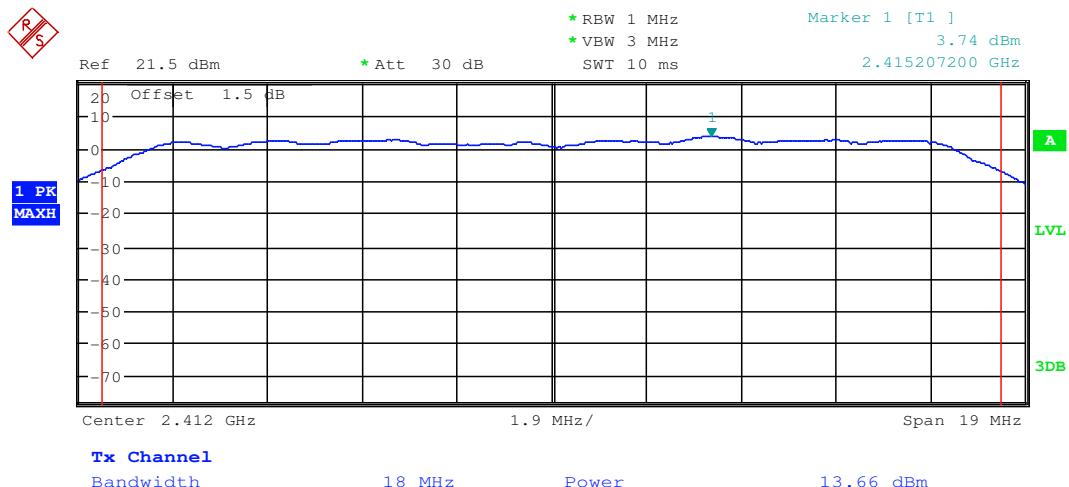
Test mode:	802.11b	Test channel:	Middle
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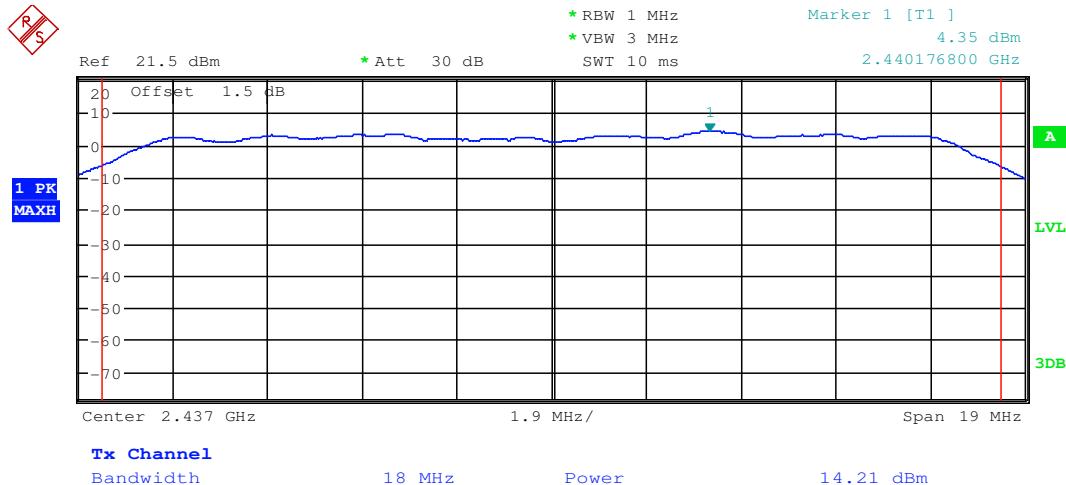
Test mode:	802.11b	Test channel:	Highest
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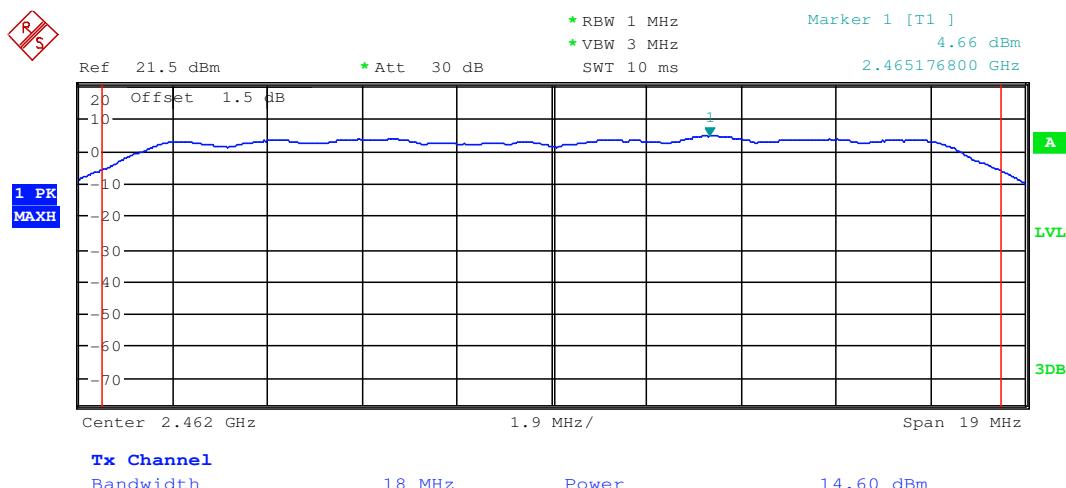
Test mode:	802.11g	Test channel:	Lowest
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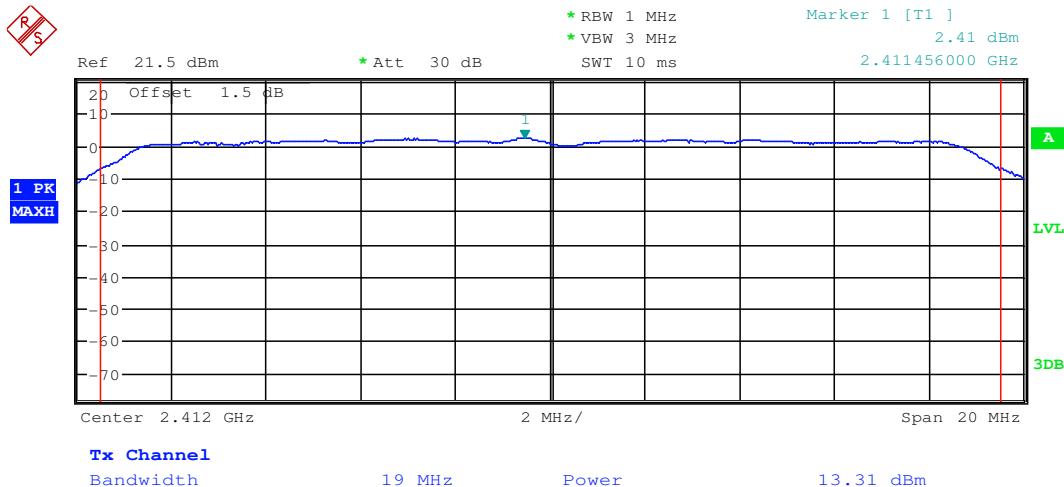
Test mode:	802.11g	Test channel:	Middle
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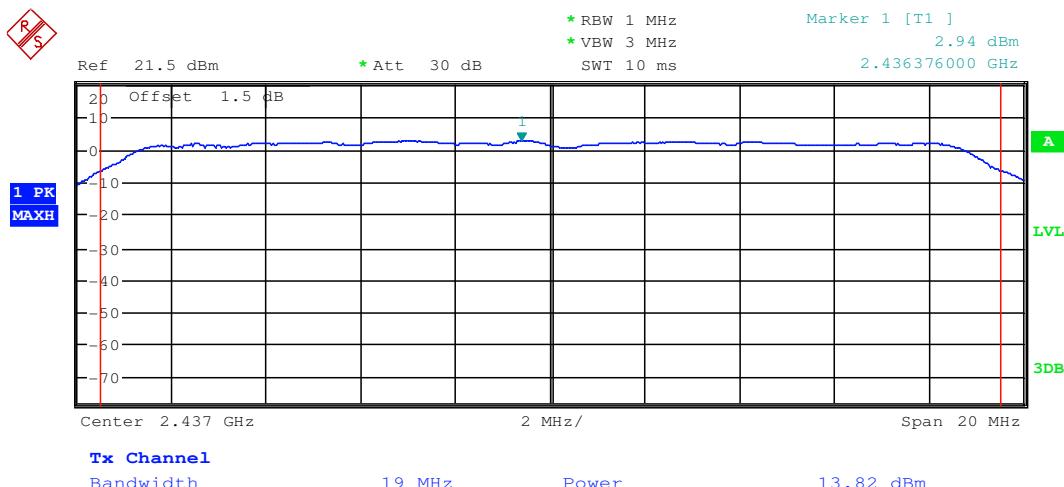
Test mode:	802.11g	Test channel:	Highest
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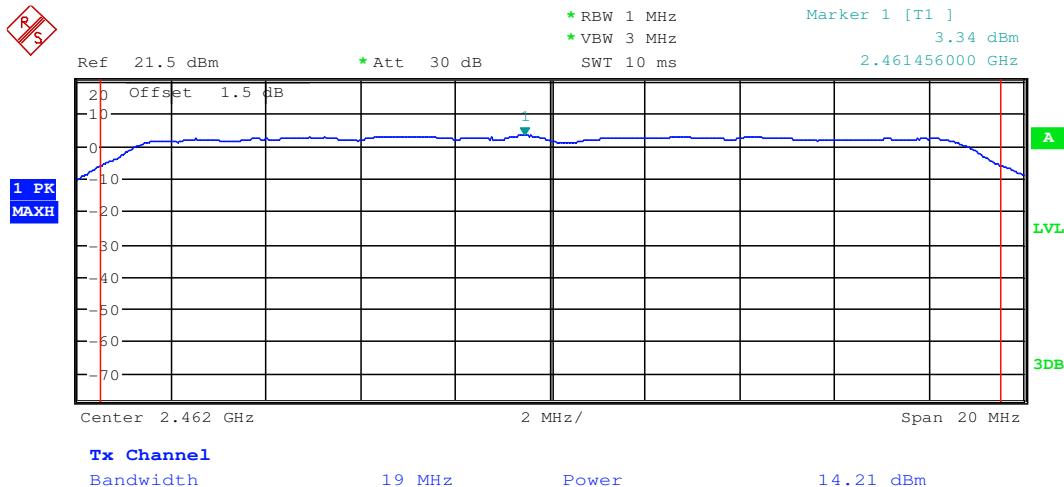
Test mode:	802.11n(HT20)	Test channel:	Lowest
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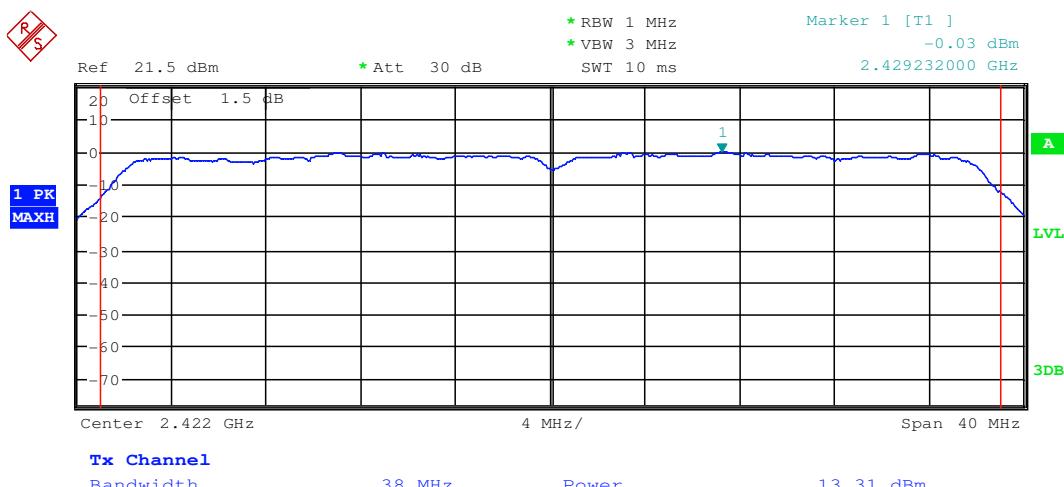
Test mode:	802.11n(HT20)	Test channel:	Middle
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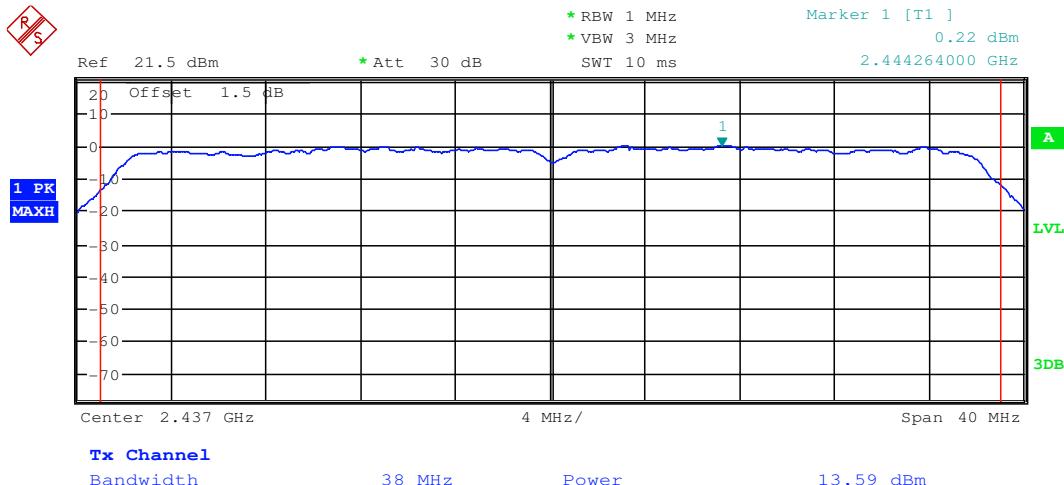
Test mode:	802.11n(HT20)	Test channel:	Highest
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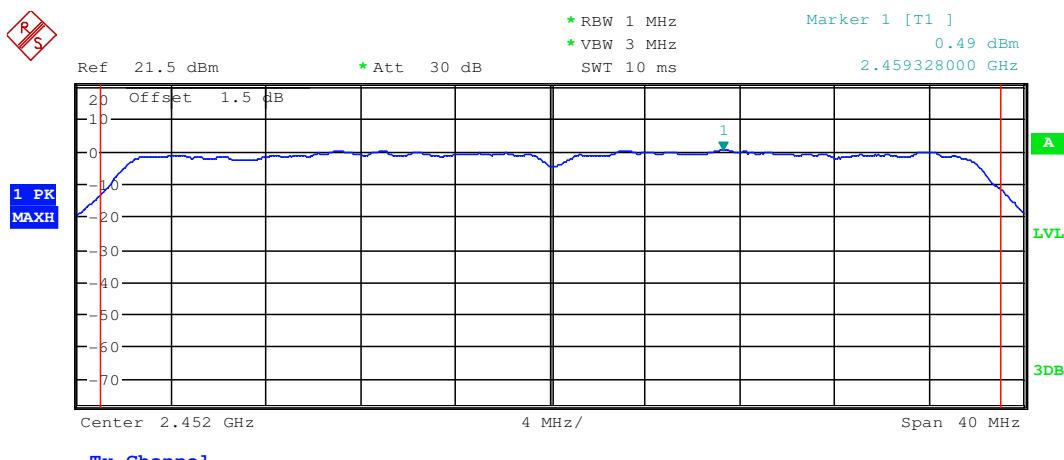
Test mode:	802.11n(HT40)	Test channel:	Lowest
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Test mode:	802.11n(HT40)	Test channel:	Middle
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Test mode:	802.11n(HT40)	Test channel:	Highest
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5.4 Radiated Spurious Emissions

Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205				
Test Method:	KDB558074 D01				
Test Site:	Measurement Distance: 3m (Semi-Anechoic Chamber)				
Receiver Setup:	Frequency	Detector	RBW	VBW	Remark
	0.009MHz-0.090MHz	Peak	10kHz	30kHz	Peak
	0.009MHz-0.090MHz	Average	10kHz	30kHz	Average
	0.090MHz-0.110MHz	Quasi-peak	10kHz	30kHz	Quasi-peak
	0.110MHz-0.490MHz	Peak	10kHz	30kHz	Peak
	0.110MHz-0.490MHz	Average	10kHz	30kHz	Average
	0.490MHz -30MHz	Quasi-peak	10kHz	30kHz	Quasi-peak
	30MHz-1GHz	Quasi-peak	100 kHz	300kHz	Quasi-peak
	Above 1GHz	Peak	1MHz	3MHz	Peak
		Peak	1MHz	10Hz	Average
Limit:	Frequency	Field strength (microvolt/meter)	Limit (dBuV/m)	Remark	Measurement distance (m)
	0.009MHz-0.490MHz	2400/F(kHz)	-	-	300
	0.490MHz-1.705MHz	24000/F(kHz)	-	-	30
	1.705MHz-30MHz	30	-	-	30
	30MHz-88MHz	100	40.0	Quasi-peak	3
	88MHz-216MHz	150	43.5	Quasi-peak	3
	216MHz-960MHz	200	46.0	Quasi-peak	3
	960MHz-1GHz	500	54.0	Quasi-peak	3
	Above 1GHz	500	54.0	Average	3
Note: 15.35(b), Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device.					



Test Setup:	
	<p>Figure 1. Below 30MHz</p>
	<p>Figure 2. 30MHz to 1GHz</p>
	<p>Figure 3. Above 1 GHz</p>

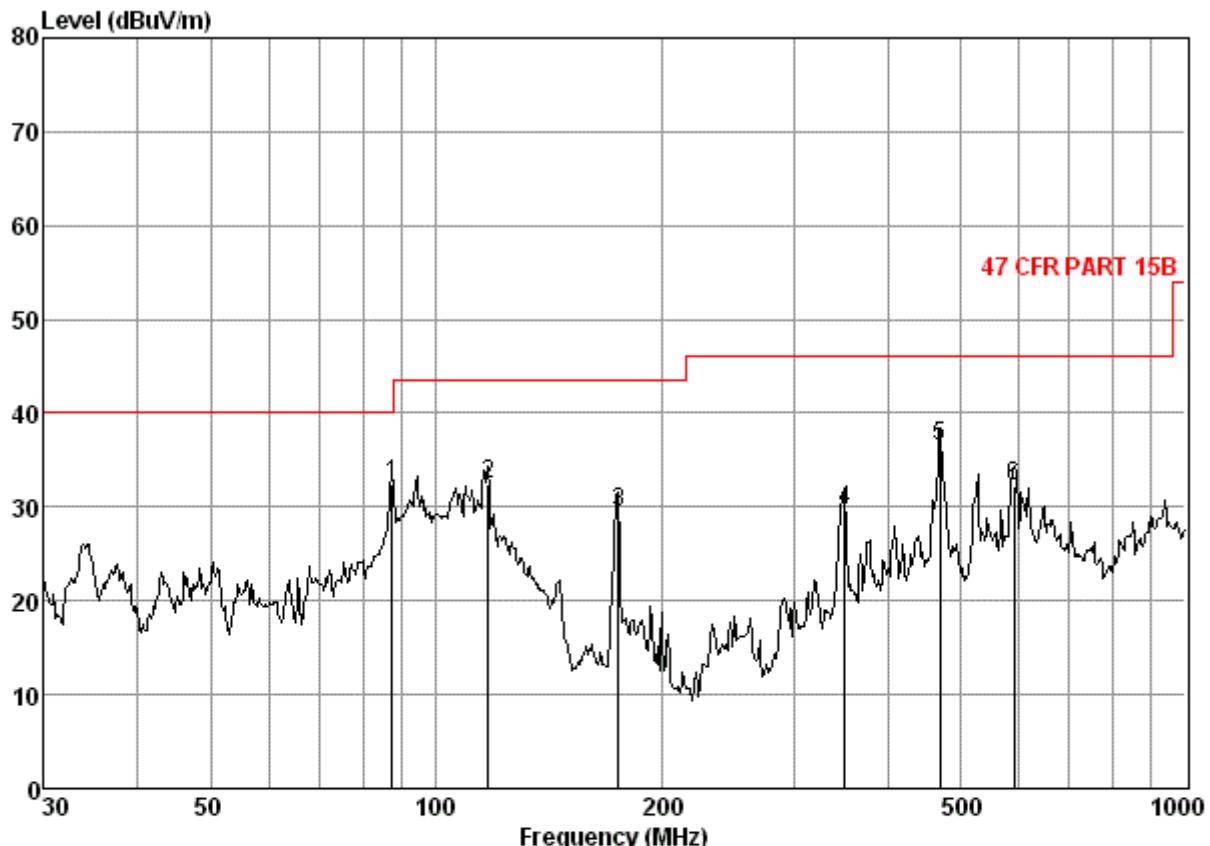
Test Procedure:

- The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- 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(for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- If the emission level of the EUT in peak mode was 10dB 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 10dB

	<p>margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.</p> <p>g. Test the EUT in the lowest channel ,the middle channel ,the Highest channel</p> <p>h. The radiation measurements are performed in X, Y, Z axis positioning. And found the X axis positioning which it is worse case, Only the test worst case mode is recorded in the report.</p> <p>i. Repeat above procedures until all frequencies measured was complete.</p>
Exploratory Test Mode:	Transmitting mode
Final Test Mode:	Through Pre-scan, 11Mbps of rate is the worst case of 802.11b; 54Mbps of rate is the worst case of 802.11g; 65Mbps of rate is the worst case of 802.11n (HT20); 150Mbps of rate is the worst case of 802.11n (HT40).
Instruments Used:	Refer to section 4.10 for details
Test Results:	Pass

5.4.1 Radiated emission below 1GHz

30MHz~1GHz (QP)		
Test mode:	Transmitting	Vertical



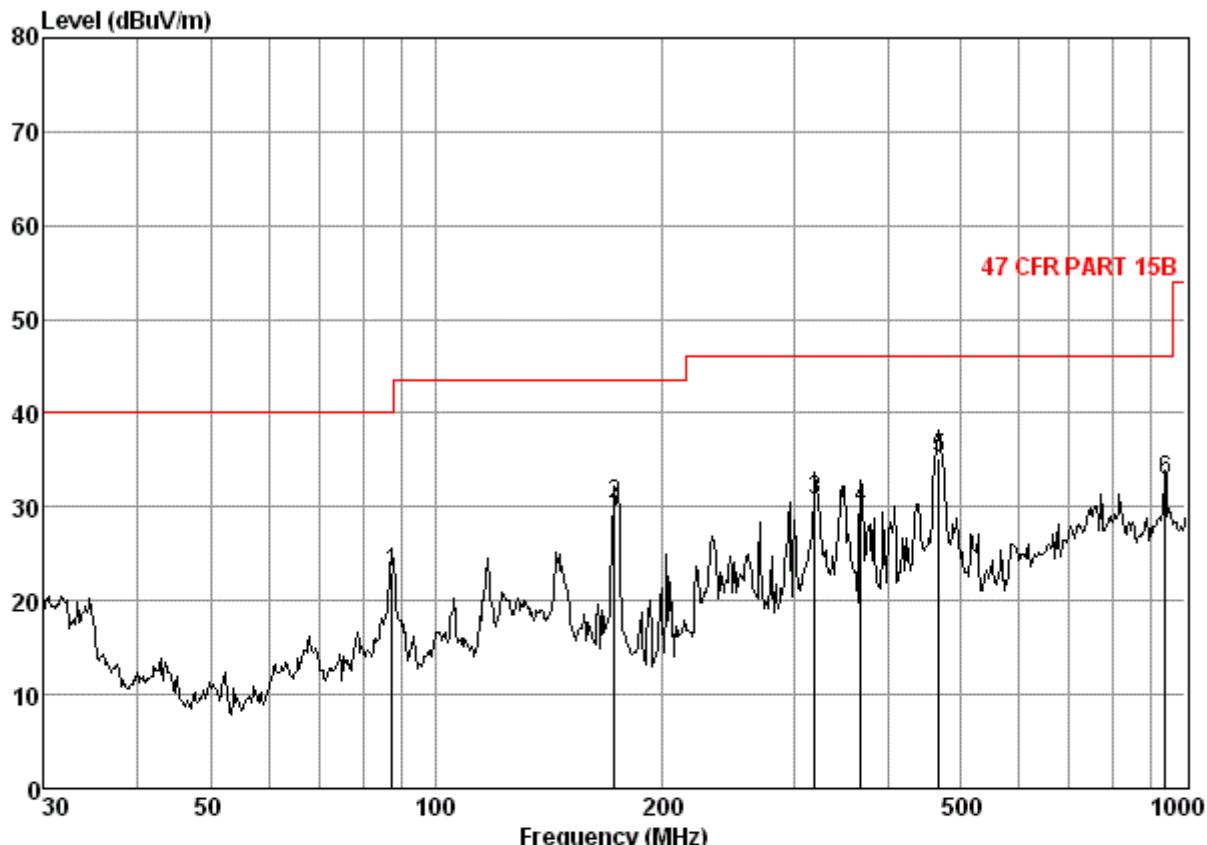
Condition: 47 CFR PART 15B 3m 3142C VERTICAL

Job No. : 1327RF

Mode : TX

Freq	Cable		Antenna	Preamp	Read	Limit	Over	Limit
	Loss	Factor	Factor	Level	Level	Line	Line	
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	87.42	1.10	5.99	27.22	52.48	32.35	40.00	-7.65
2	117.36	1.25	7.59	27.09	50.62	32.37	43.50	-11.13
3	175.04	1.36	7.90	26.79	47.03	29.50	43.50	-14.00
4	350.48	2.06	10.66	26.79	43.80	29.73	46.00	-16.27
5	470.52	2.49	13.23	27.56	48.25	36.41	46.00	-9.59
6	590.97	2.69	15.50	27.55	41.62	32.26	46.00	-13.74

Test mode:	Transmitting	Horizontal
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Condition: 47 CFR PART 15B 3m 3142C HORIZONTAL

Job No. : 1327RF

Mode : TX

	Freq	Cable Loss	Antenna Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	87.42	1.10	5.99	27.22	43.26	23.13	40.00	-16.87
2	173.21	1.36	8.31	26.80	47.40	30.27	43.50	-13.23
3	319.94	1.97	9.80	26.56	45.51	30.72	46.00	-15.28
4	368.11	2.11	11.17	26.93	43.57	29.92	46.00	-16.08
5	468.88	2.49	13.20	27.54	47.08	35.23	46.00	-10.77
6	938.83	3.64	20.60	26.58	35.24	32.90	46.00	-13.10

5.4.2 Transmitter emission above 1GHz

Test mode:	802.11b		Test channel:		Lowest		Remark:		Peak
Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	
1468.696	3.88	28.07	39.34	46.01	38.62	74	-35.38	Vertical	
3561.636	5.85	33.28	40.72	47.15	45.56	74	-28.44	Vertical	
4824.000	7.45	34.68	41.64	51.28	51.77	74	-22.23	Vertical	
7236.000	8.76	35.90	39.85	46.50	51.31	74	-22.69	Vertical	
9648.000	9.69	37.36	37.76	44.10	53.39	74	-20.61	Vertical	
11545.040	10.95	38.43	38.09	42.43	53.72	74	-20.28	Vertical	
1450.122	3.86	28.01	39.33	45.04	37.58	74	-36.42	Horizontal	
3367.661	5.57	33.26	40.58	46.59	44.84	74	-29.16	Horizontal	
4824.000	7.45	34.68	41.64	47.26	47.75	74	-26.25	Horizontal	
7236.000	8.76	35.90	39.85	46.98	51.79	74	-22.21	Horizontal	
9648.000	9.69	37.36	37.76	44.22	53.51	74	-20.49	Horizontal	
12055.600	11.31	38.95	38.30	41.17	53.13	74	-20.87	Horizontal	

Test mode:	802.11b		Test channel:		Middle		Remark:		Peak
Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	
1483.727	3.88	28.07	39.34	45.21	37.82	74	-36.18	Vertical	
3489.840	5.75	33.21	40.66	46.38	44.68	74	-29.32	Vertical	
4874.000	7.48	34.59	41.68	47.29	47.68	74	-26.32	Vertical	
7311.000	8.85	35.92	39.79	47.39	52.37	74	-21.63	Vertical	
9748.000	9.74	37.46	37.68	43.65	53.17	74	-20.83	Vertical	
11722.720	11.08	38.62	38.16	42.01	53.55	74	-20.45	Vertical	
1510.402	3.91	28.22	39.36	44.37	37.14	74	-36.86	Horizontal	
3616.451	5.93	33.34	40.76	46.91	45.42	74	-28.58	Horizontal	
4874.000	7.48	34.59	41.68	46.17	46.56	74	-27.44	Horizontal	
7311.000	8.85	35.92	39.79	45.95	50.93	74	-23.07	Horizontal	
9748.000	9.74	37.46	37.68	43.51	53.03	74	-20.97	Horizontal	
11692.920	11.07	38.59	38.15	42.43	53.94	74	-20.06	Horizontal	

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Test mode:		802.11b		Test channel:		Highest		Remark:		Peak
Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)		Polarization	
1413.674	3.83	27.94	39.32	44.70	37.15	74	-36.85		Vertical	
3359.099	5.57	33.26	40.56	46.28	44.55	74	-29.45		Vertical	
4924.000	7.51	34.51	41.72	46.50	46.80	74	-27.20		Vertical	
7386.000	8.94	35.96	39.72	46.36	51.54	74	-22.46		Vertical	
9848.000	9.78	37.54	37.58	42.95	52.69	74	-21.31		Vertical	
11782.550	11.13	38.68	38.19	42.11	53.73	74	-20.27		Vertical	
1597.401	3.99	28.84	39.39	44.75	38.19	74	-35.81		Horizontal	
3634.910	5.95	33.37	40.77	46.91	45.46	74	-28.54		Horizontal	
4924.000	7.51	34.51	41.72	47.88	48.18	74	-25.82		Horizontal	
7386.000	8.94	35.96	39.72	46.05	51.23	74	-22.77		Horizontal	
9848.000	9.78	37.54	37.58	43.56	53.30	74	-20.70		Horizontal	
11603.960	11.00	38.50	38.11	42.55	53.94	74	-20.06		Horizontal	

Test mode:		802.11g		Test channel:		Lowest		Remark:		Peak
Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)		Polarization	
1360.714	3.78	27.85	39.29	44.74	37.08	74	-36.92		Vertical	
3570.714	5.85	33.28	40.72	46.36	44.77	74	-29.23		Vertical	
4824.000	7.45	34.68	41.64	47.53	48.02	74	-25.98		Vertical	
7236.000	8.76	35.90	39.85	47.44	52.25	74	-21.75		Vertical	
9648.000	9.69	37.36	37.76	44.49	53.78	74	-20.22		Vertical	
11663.190	11.04	38.56	38.13	42.29	53.76	74	-20.24		Vertical	
1446.435	3.84	28.01	39.33	44.40	36.92	74	-37.08		Horizontal	
3376.244	5.60	33.25	40.58	45.94	44.21	74	-29.79		Horizontal	
4824.000	7.45	34.68	41.64	47.32	47.81	74	-26.19		Horizontal	
7236.000	8.76	35.90	39.85	48.32	53.13	74	-20.87		Horizontal	
9648.000	9.69	37.36	37.76	44.39	53.68	74	-20.32		Horizontal	
12588.750	11.52	39.44	38.52	40.75	53.19	74	-20.81		Horizontal	



Test mode:		802.11g		Test channel:		Middle		Remark:		Peak
Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization		
1702.361	4.08	29.58	39.44	44.69	38.91	74	-35.09	Vertical		
3543.550	5.83	33.26	40.70	46.38	44.77	74	-29.23	Vertical		
4874.000	7.48	34.59	41.68	48.13	48.52	74	-25.48	Vertical		
7311.000	8.85	35.92	39.79	47.63	52.61	74	-21.39	Vertical		
9748.000	9.74	37.46	37.68	44.17	53.69	74	-20.31	Vertical		
11872.880	11.20	38.78	38.22	41.46	53.22	74	-20.78	Vertical		
1420.890	3.83	27.98	39.32	46.56	39.05	74	-34.95	Horizontal		
3299.775	5.47	33.28	40.52	46.98	45.21	74	-28.79	Horizontal		
4874.000	7.48	34.59	41.68	47.53	47.92	74	-26.08	Horizontal		
7311.000	8.85	35.92	39.79	46.50	51.48	74	-22.52	Horizontal		
9748.000	9.74	37.46	37.68	43.60	53.12	74	-20.88	Horizontal		
11574.460	10.98	38.47	38.10	42.50	53.85	74	-20.15	Horizontal		

Test mode:		802.11g		Test channel:		Highest		Remark:		Peak
Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization		
1402.920	3.81	27.94	39.31	46.22	38.66	74	-35.34	Vertical		
3333.545	5.52	33.27	40.55	46.76	45.00	74	-29.00	Vertical		
4924.000	7.51	34.51	41.72	47.33	47.63	74	-26.37	Vertical		
7386.000	8.94	35.96	39.72	45.31	50.49	74	-23.51	Vertical		
9848.000	9.78	37.54	37.58	43.32	53.06	74	-20.94	Vertical		
10999.950	10.56	38.50	37.86	42.15	53.35	74	-20.65	Vertical		
1360.714	3.78	27.85	39.29	45.17	37.51	74	-36.49	Horizontal		
3192.366	5.32	33.32	40.44	46.76	44.96	74	-29.04	Horizontal		
4924.000	7.51	34.51	41.72	46.81	47.11	74	-26.89	Horizontal		
7386.000	8.94	35.96	39.72	45.12	50.30	74	-23.70	Horizontal		
9848.000	9.78	37.54	37.58	43.38	53.12	74	-20.88	Horizontal		
11515.680	10.94	38.42	38.07	42.17	53.46	74	-20.54	Horizontal		



Test mode:		802.11n (HT20)		Test channel:		Lowest	Remark:		Peak
Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	
1476.193	3.88	28.07	39.34	44.32	36.93	74	-37.07	Vertical	
3933.367	6.38	33.74	40.98	46.64	45.78	74	-28.22	Vertical	
4824.000	7.45	34.68	41.64	49.02	49.51	74	-24.49	Vertical	
7236.000	8.76	35.90	39.85	47.91	52.72	74	-21.28	Vertical	
9648.000	9.69	37.36	37.76	44.19	53.48	74	-20.52	Vertical	
11752.600	11.11	38.66	38.17	41.63	53.23	74	-20.77	Vertical	
1446.435	3.84	28.01	39.33	44.75	37.27	74	-36.73	Horizontal	
3489.840	5.75	33.21	40.66	45.69	43.99	74	-30.01	Horizontal	
4824.000	7.45	34.68	41.64	47.39	47.88	74	-26.12	Horizontal	
7236.000	8.76	35.90	39.85	46.27	51.08	74	-22.92	Horizontal	
9648.000	9.69	37.36	37.76	43.86	53.15	74	-20.85	Horizontal	
11399.030	10.85	38.42	38.02	42.39	53.64	74	-20.36	Horizontal	

Test mode:		802.11n (HT20)		Test channel:		Middle	Remark:		Peak
Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	
1613.749	4.00	28.96	39.40	45.02	38.58	74	-35.42	Vertical	
3776.385	6.16	33.53	40.87	46.76	45.58	74	-28.42	Vertical	
4874.000	7.48	34.59	41.68	46.49	46.88	74	-27.12	Vertical	
7311.000	8.85	35.92	39.79	45.26	50.24	74	-23.76	Vertical	
9748.000	9.74	37.46	37.68	43.69	53.21	74	-20.79	Vertical	
11812.580	11.15	38.71	38.20	42.14	53.80	74	-20.20	Vertical	
1613.749	4.00	28.96	39.40	44.42	37.98	74	-36.02	Horizontal	
3681.469	6.03	33.43	40.80	46.37	45.03	74	-28.97	Horizontal	
4874.000	7.48	34.59	41.68	45.36	45.75	74	-28.25	Horizontal	
7311.000	8.85	35.92	39.79	45.26	50.24	74	-23.76	Horizontal	
9748.000	9.74	37.46	37.68	43.14	52.66	74	-21.34	Horizontal	
11399.030	10.85	38.42	38.02	42.22	53.47	74	-20.53	Horizontal	



Test mode:		802.11n (HT20)		Test channel:	Highest		Remark:		Peak
Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	
1435.431	3.84	28.01	39.33	44.95	37.47	74	-36.53	Vertical	
3472.118	5.73	33.21	40.65	45.87	44.16	74	-29.84	Vertical	
4924.000	7.51	34.51	41.72	47.32	47.62	74	-26.38	Vertical	
7386.000	8.94	35.96	39.72	46.54	51.72	74	-22.28	Vertical	
9848.000	9.78	37.54	37.58	42.43	52.17	74	-21.83	Vertical	
11428.080	10.87	38.42	38.04	42.63	53.88	74	-20.12	Vertical	
1498.912	3.89	28.10	39.35	44.67	37.31	74	-36.69	Horizontal	
3128.013	5.24	33.35	40.40	46.45	44.64	74	-29.36	Horizontal	
4924.000	7.51	34.51	41.72	46.45	46.75	74	-27.25	Horizontal	
7386.000	8.94	35.96	39.72	44.81	49.99	74	-24.01	Horizontal	
9848.000	9.78	37.54	37.58	42.70	52.44	74	-21.56	Horizontal	
10805.680	10.42	38.42	37.78	42.17	53.23	74	-20.77	Horizontal	

Test mode:		802.11n (HT40)		Test channel:	Lowest		Remark:		Peak
Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	
1461.238	3.86	28.04	39.33	44.30	36.87	74	-37.13	Vertical	
3325.070	5.52	33.27	40.54	45.43	43.68	74	-30.32	Vertical	
4884.000	7.48	34.59	41.68	47.02	47.41	74	-26.59	Vertical	
7326.000	8.87	35.93	39.77	46.07	51.10	74	-22.90	Vertical	
9768.000	9.75	37.48	37.66	43.84	53.41	74	-20.59	Vertical	
11722.720	11.08	38.62	38.16	42.37	53.91	74	-20.09	Vertical	
1495.101	3.89	28.10	39.35	43.79	36.43	74	-37.57	Horizontal	
3283.018	5.45	33.29	40.51	45.88	44.11	74	-29.89	Horizontal	
4884.000	7.48	34.59	41.68	45.99	46.38	74	-27.62	Horizontal	
7326.000	8.87	35.93	39.77	44.77	49.80	74	-24.20	Horizontal	
9768.000	9.75	37.48	37.66	43.97	53.54	74	-20.46	Horizontal	
11370.050	10.84	38.43	38.02	42.09	53.34	74	-20.66	Horizontal	

Test mode:		802.11n (HT40)		Test channel:		Middle	Remark:		Peak
Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	
1468.696	3.88	28.07	39.34	45.33	37.94	74	-36.06	Vertical	
3249.760	5.42	33.30	40.48	47.51	45.75	74	-28.25	Vertical	
4874.000	7.48	34.59	41.68	47.15	47.54	74	-26.46	Vertical	
7311.000	8.85	35.92	39.79	46.72	51.70	74	-22.30	Vertical	
9748.000	9.74	37.46	37.68	44.42	53.94	74	-20.06	Vertical	
11633.540	11.02	38.54	38.13	41.91	53.34	74	-20.66	Vertical	
1518.111	3.91	28.22	39.36	44.03	36.80	74	-37.20	Horizontal	
3168.080	5.30	33.33	40.42	46.07	44.28	74	-29.72	Horizontal	
4874.000	7.48	34.59	41.68	46.80	47.19	74	-26.81	Horizontal	
7311.000	8.85	35.92	39.79	45.43	50.41	74	-23.59	Horizontal	
9748.000	9.74	37.46	37.68	42.14	51.66	74	-22.34	Horizontal	
11963.890	11.26	38.87	38.26	41.46	53.33	74	-20.67	Horizontal	

Test mode:		802.11n (HT40)		Test channel:		Highest	Remark:		Peak
Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	
1613.749	4.00	28.96	39.40	44.68	38.24	74	-35.76	Vertical	
3384.850	5.60	33.25	40.59	45.85	44.11	74	-29.89	Vertical	
4904.000	7.49	34.54	41.70	46.48	46.81	74	-27.19	Vertical	
7356.000	8.92	35.94	39.74	45.23	50.35	74	-23.65	Vertical	
9808.000	9.76	37.51	37.61	42.92	52.58	74	-21.42	Vertical	
10944.090	10.52	38.48	37.84	42.46	53.62	74	-20.38	Vertical	
1529.749	3.92	28.35	39.37	44.96	37.86	74	-36.14	Horizontal	
3249.760	5.42	33.30	40.48	47.00	45.24	74	-28.76	Horizontal	
4904.000	7.49	34.54	41.70	47.29	47.62	74	-26.38	Horizontal	
7356.000	8.92	35.94	39.74	47.69	52.81	74	-21.19	Horizontal	
9808.000	9.76	37.51	37.61	43.70	53.36	74	-20.64	Horizontal	
11933.470	11.24	38.83	38.24	41.44	53.27	74	-20.73	Horizontal	

Remark:

- 1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:
Final Test Level = Receiver Reading + Antenna Factor + Cable Factor – Preamplifier Factor
- 2) The disturbance above 13GHz and below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.
- 3) As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. So, only the peak measurements were shown in the report.

5.5 Band Edge (Radiated Emission)

Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205		
Test Method:	KDB558074 D01		
Test Site:	Measurement Distance: 3m (Semi-Anechoic Chamber)		
Limit:	Frequency	Limit (dBuV/m @3m)	Remark
	30MHz-88MHz	40.0	Quasi-peak Value
	88MHz-216MHz	43.5	Quasi-peak Value
	216MHz-960MHz	46.0	Quasi-peak Value
	960MHz-1GHz	54.0	Quasi-peak Value
	Above 1GHz	54.0	Average Value
		74.0	Peak Value
Test Setup:			

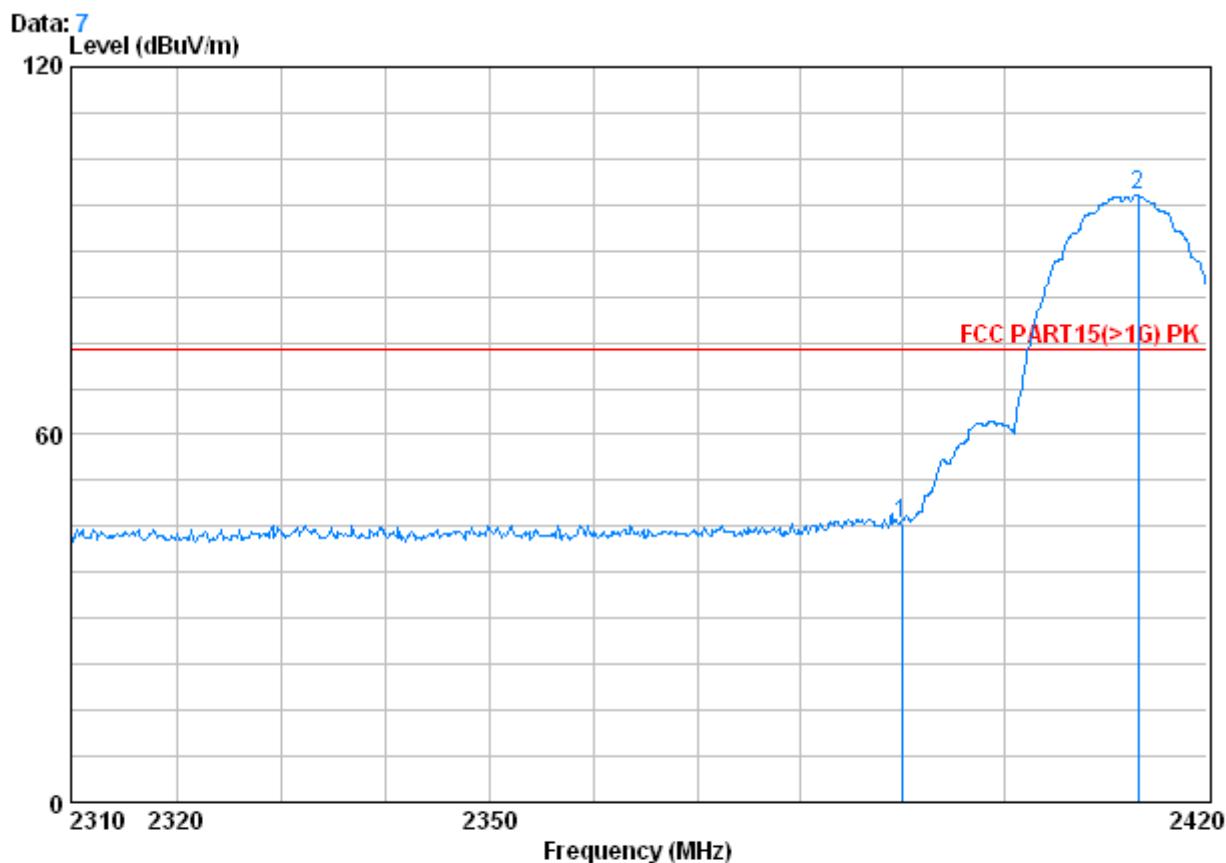
Figure 1. 30MHz to 1GHz

Figure 2. Above 1 GHz

Test Procedure:	<ol style="list-style-type: none">a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.d. 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 rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.f. Place a marker at the end of the restricted band closest to the transmit frequency to show compliance. Also measure any emissions in the restricted bands. Save the spectrum analyzer plot. Repeat for each power and modulation for lowest and highest channelg. Test the EUT in the lowest channel , the Highest channelh. The radiation measurements are performed in X, Y, Z axis positioning. And found the X axis positioning which it is worse case, only the test worst case mode is recorded in the report.i. Repeat above procedures until all frequencies measured was complete.
Exploratory Test Mode:	Transmitting mode
Final Test Mode:	Through Pre-scan, 11Mbps of rate is the worst case of 802.11b; 54Mbps of rate is the worst case of 802.11g; 65Mbps of rate is the worst case of 802.11n (HT20); 150Mbps of rate is the worst case of 802.11n (HT40).
Instruments Used:	Refer to section 4.10 for details
Test Results:	Pass

Test plot as follows:

Worse case mode:	802.11b	Test channel:	Lowest	Remark:	Peak	Vertical
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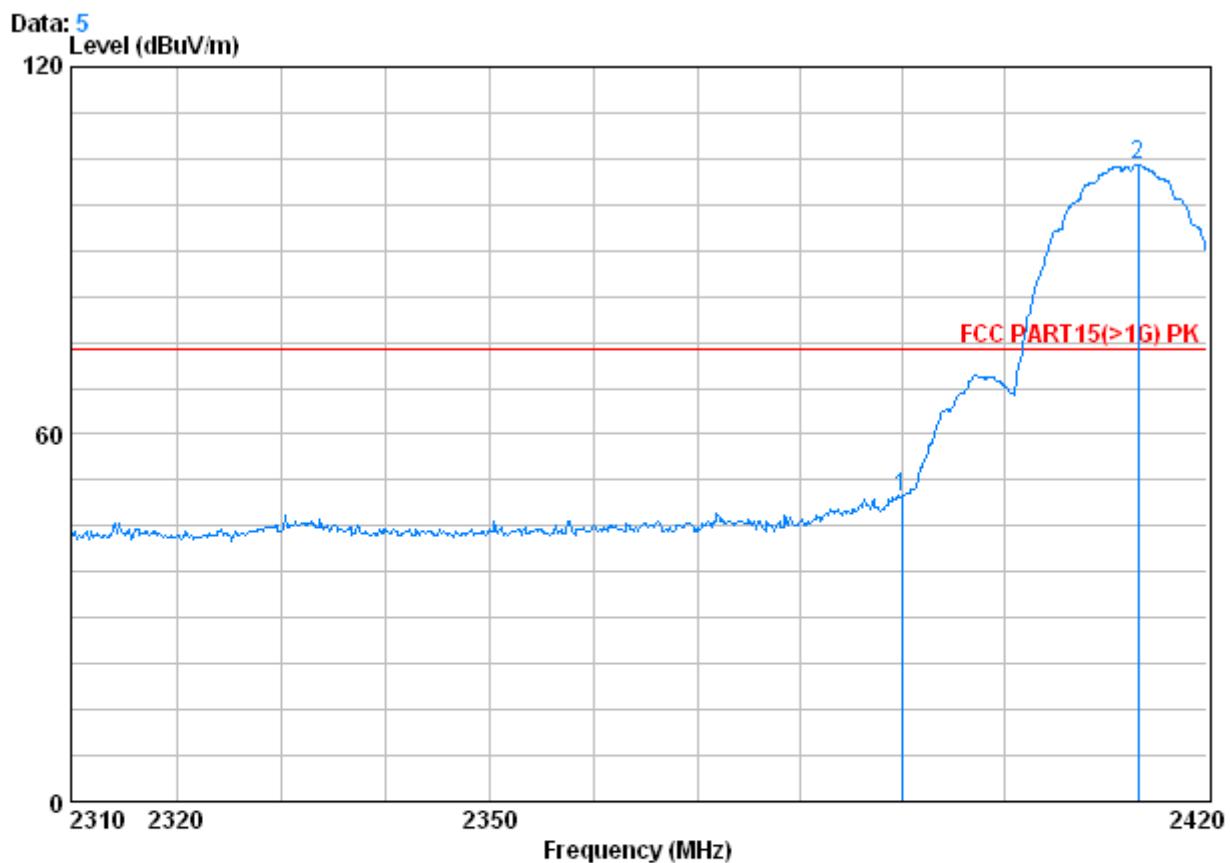
Condition : FCC PART15(>1G) PK 3m VERTICAL

Job No. : 1327RF

Mode : 2412 B

	Freq	Cable		Antenna	Preamp	Read	Limit	Over
		Loss	Factor	Factor	Level	Level		
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2390.000	2.98	32.51	39.85	49.77	45.42	74.00	-28.58
2 X	2413.180	2.99	32.54	39.86	103.32	98.99	74.00	24.99

Worse case mode:	802.11b	Test channel:	Lowest	Remark:	Peak	Horizontal
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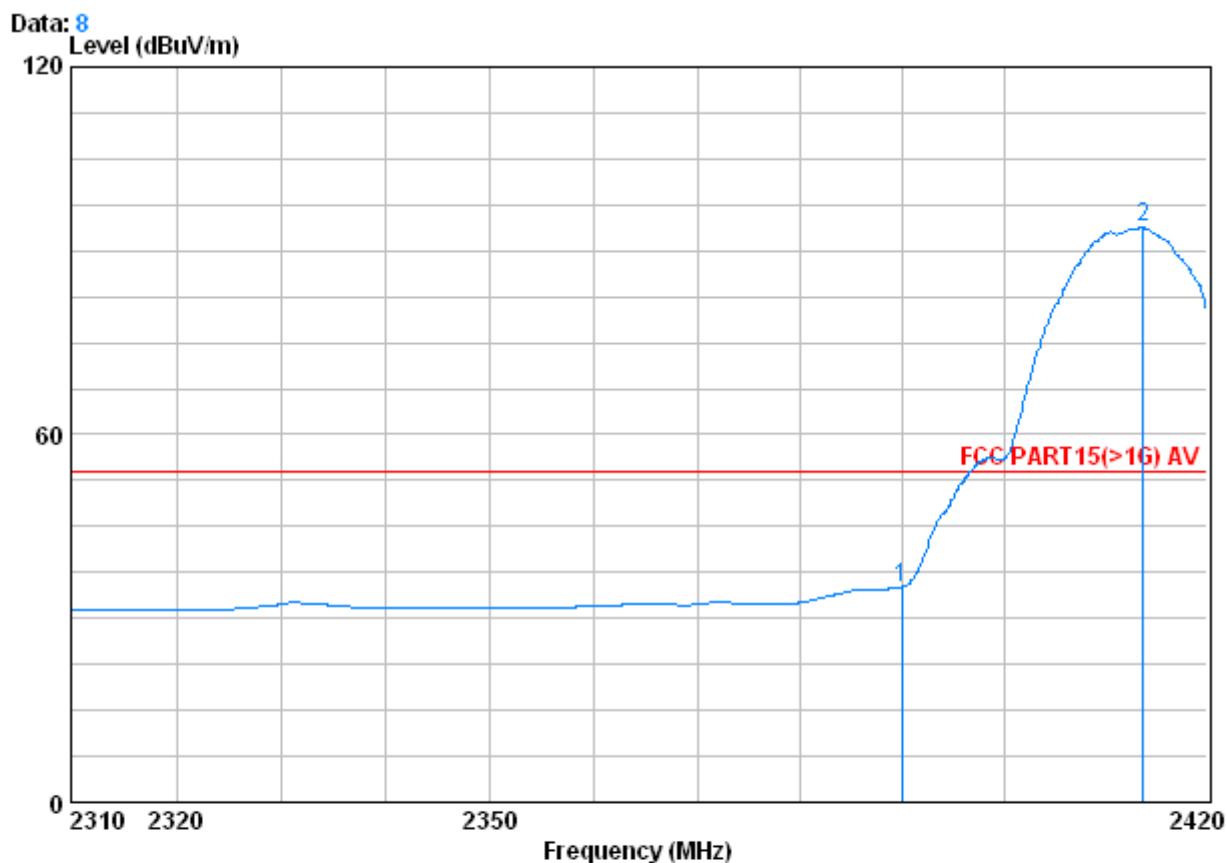
Condition : FCC PART15(>1G) PK 3m HORIZONTAL

Job No. : 1327RF

Mode : 2412 B

Freq	Cable		Antenna	Preamp	Read	Limit	Over	
	Loss	Factor	Factor	Level	Level			
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2390.000	2.98	32.51	39.85	54.18	49.82	74.00	-24.18
2 X	2413.180	2.99	32.54	39.86	108.33	104.00	74.00	30.00

Worse case mode:	802.11b	Test channel:	Lowest	Remark:	Average	Vertical
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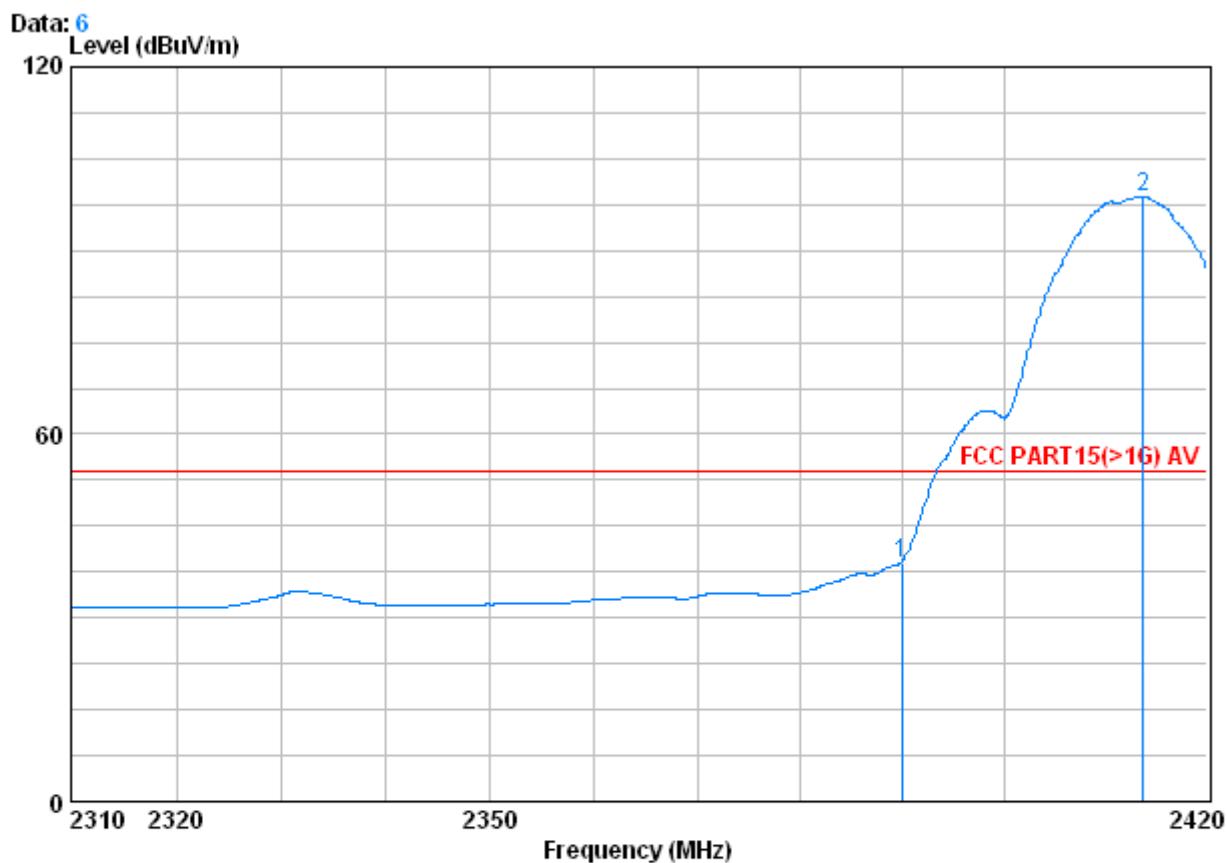
Condition : FCC PART15(>1G) AV 3m VERTICAL

Job No. : 1327RF

Mode : 2412 B

Freq	Cable		Antenna	Preamp	Read	Limit	Over	
	Loss	Factor	Factor	Level	Level			
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2390.000	2.98	32.51	39.85	39.36	35.01	54.00	-18.99
2	2413.730	2.99	32.54	39.86	98.05	93.73	54.00	39.73

Worse case mode:	802.11b	Test channel:	Lowest	Remark:	Average	Horizontal
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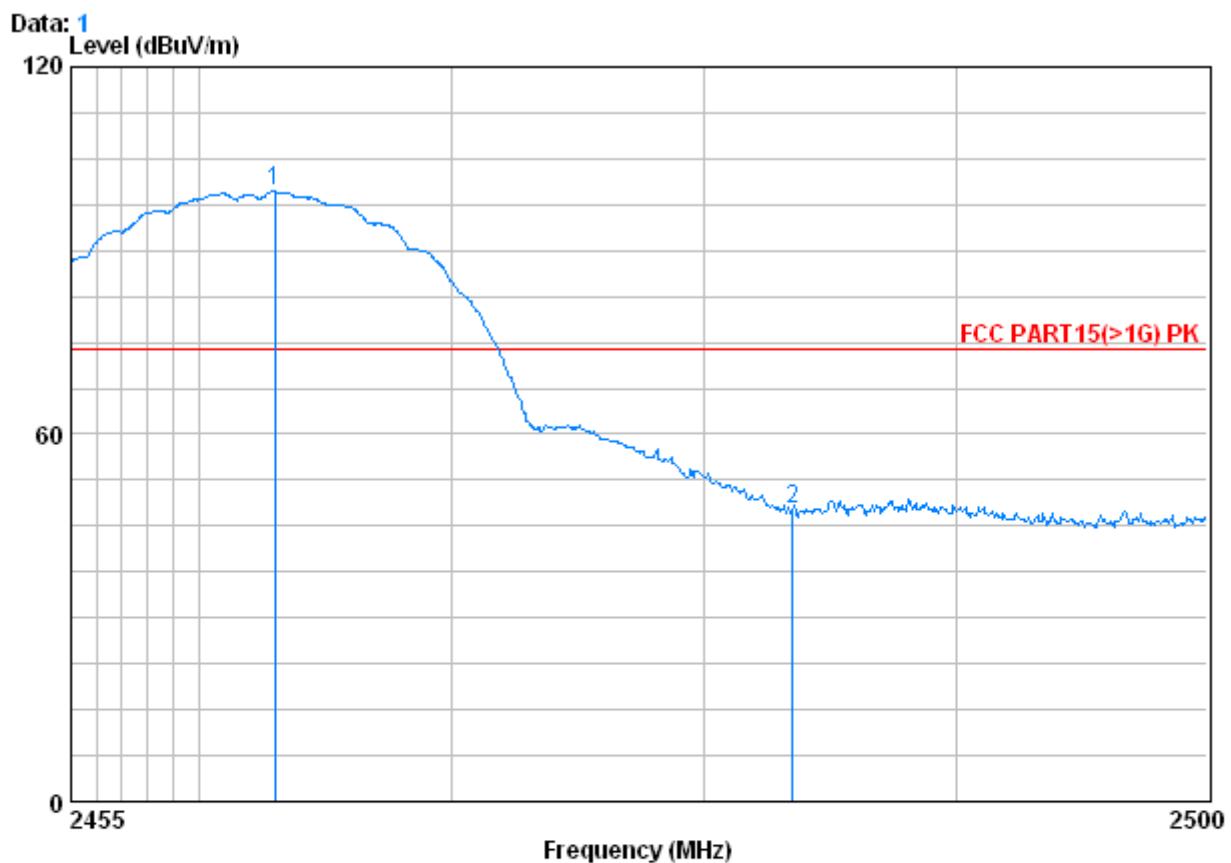
Condition : FCC PART15(>1G) AV 3m HORIZONTAL

Job No. : 1327RF

Mode : 2412 B

	Freq	Cable Loss	Antenna Factor	Preamp Factor	Read Level	Limit Level	Line Limit	Over Limit	
	MHz	dB	dB/m		dB	dBuV	dBuV/m	dBuV/m	dB
1	2390.000	2.98	32.51	39.85	43.32	38.96	54.00	-15.04	
2	2413.730	2.99	32.54	39.86	103.06	98.73	54.00	44.73	

Worse case mode:	802.11b	Test channel:	Highest	Remark:	Peak	Vertical
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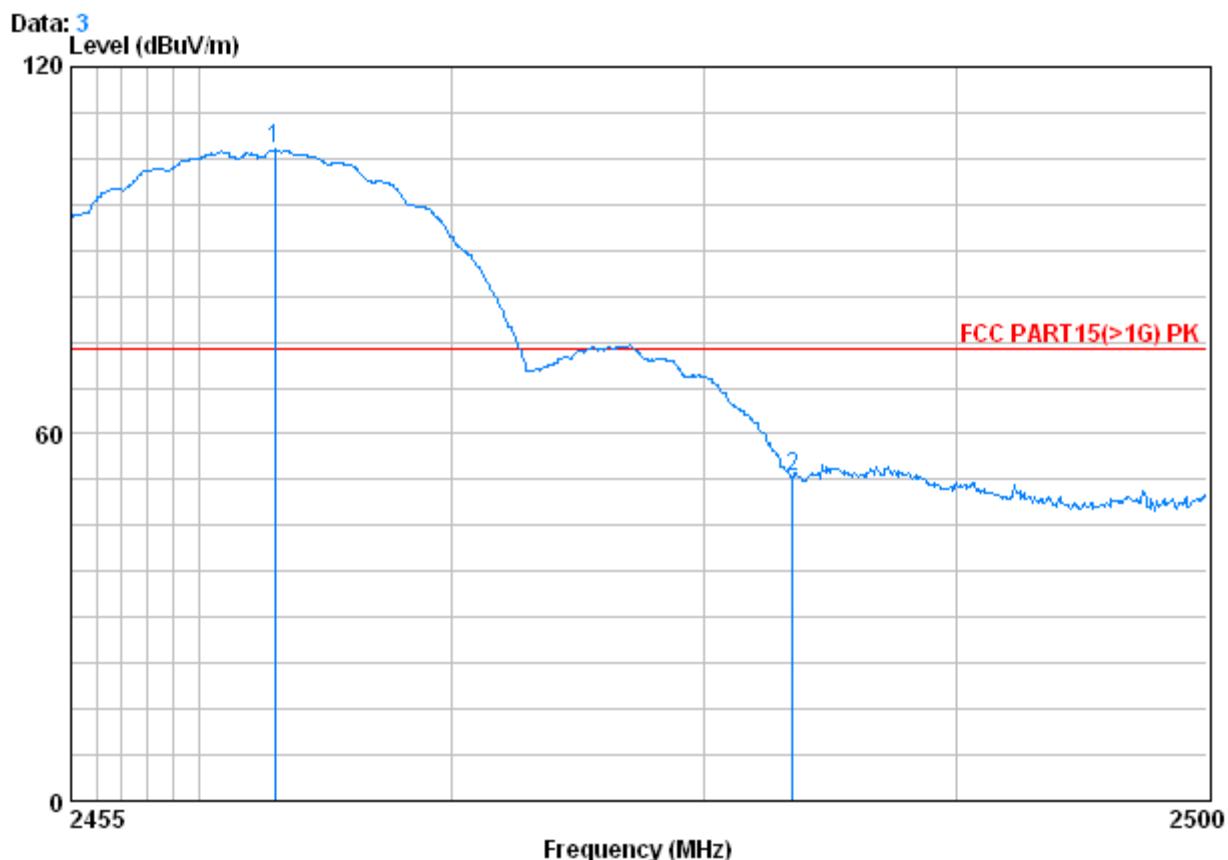
Condition : FCC PART15(>1G) PK 3m VERTICAL

Job No. : 1327RF

Mode : 2462 B

	Freq	Cable		Antenna	Preamp	Read	Limit	Over
		Loss	Factor	Factor	Level	Level		
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 X	2463.010	3.02	32.64	39.91	103.91	99.66	74.00	25.66
2	2483.500	3.03	32.67	39.92	52.03	47.81	74.00	-26.19

Worse case mode:	802.11b	Test channel:	Highest	Remark:	Peak	Horizontal
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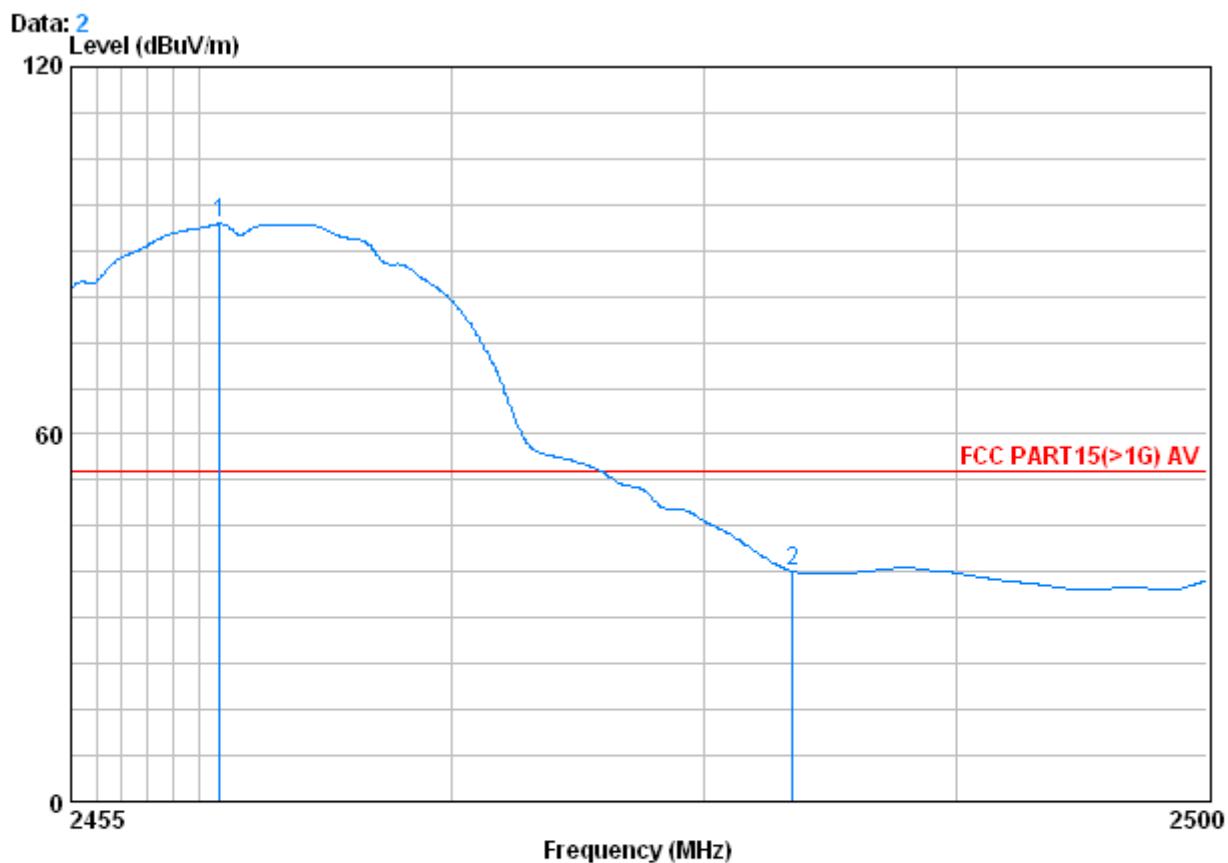
Condition : FCC PART15(>1G) PK 3m HORIZONTAL

Job No. : 1327RF

Mode : 2462 B

Freq	Cable Loss	Antenna Factor	Preamp Factor	Read	Limit Line	Over Limit
				Level		
	MHz	dB	dB/m	dB	dBuV	dBuV/m
1	2463.010	3.02	32.64	39.91	110.69	106.44
2	2483.500	3.03	32.67	39.92	57.13	52.91
					74.00	32.44
					74.00	-21.09

Worse case mode:	802.11b	Test channel:	Highest	Remark:	Average	Vertical
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Condition : FCC PART15(>1G) AV 3m VERTICAL

Job No. : 1327RF

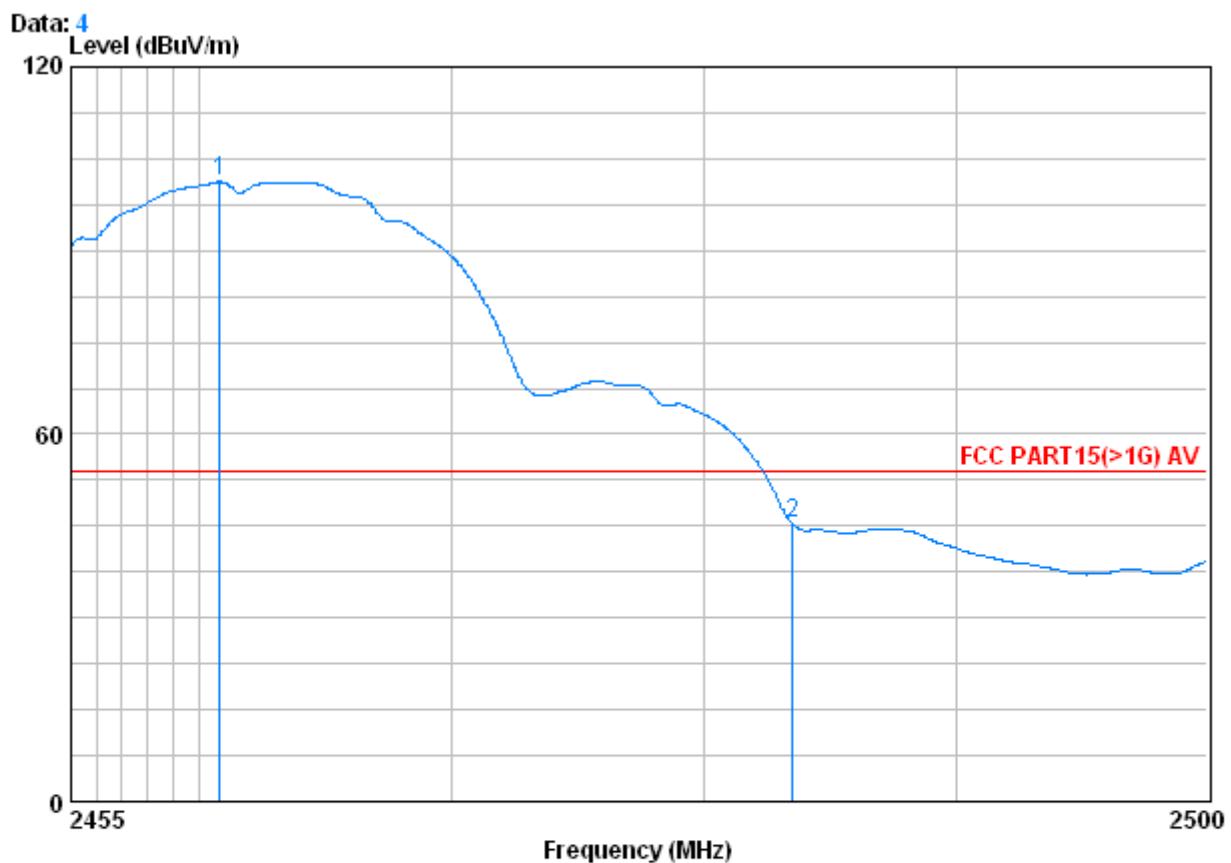
Mode : 2462 B

Freq	Cable		Antenna	Preamp	Read	Limit	Over	
	MHz	dB	Loss Factor	Factor	Level	Level	Line	Limit
1	2460.850	3.02	32.64	39.91	98.63	94.39	54.00	40.39
2	2483.500	3.03	32.67	39.92	41.85	37.63	54.00	-16.37



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Worse case mode:	802.11b	Test channel:	Highest	Remark:	Average	Horizontal
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Condition : FCC PART15(>1G) AV 3m HORIZONTAL

Job No. : 1327RF

Mode : 2462 B

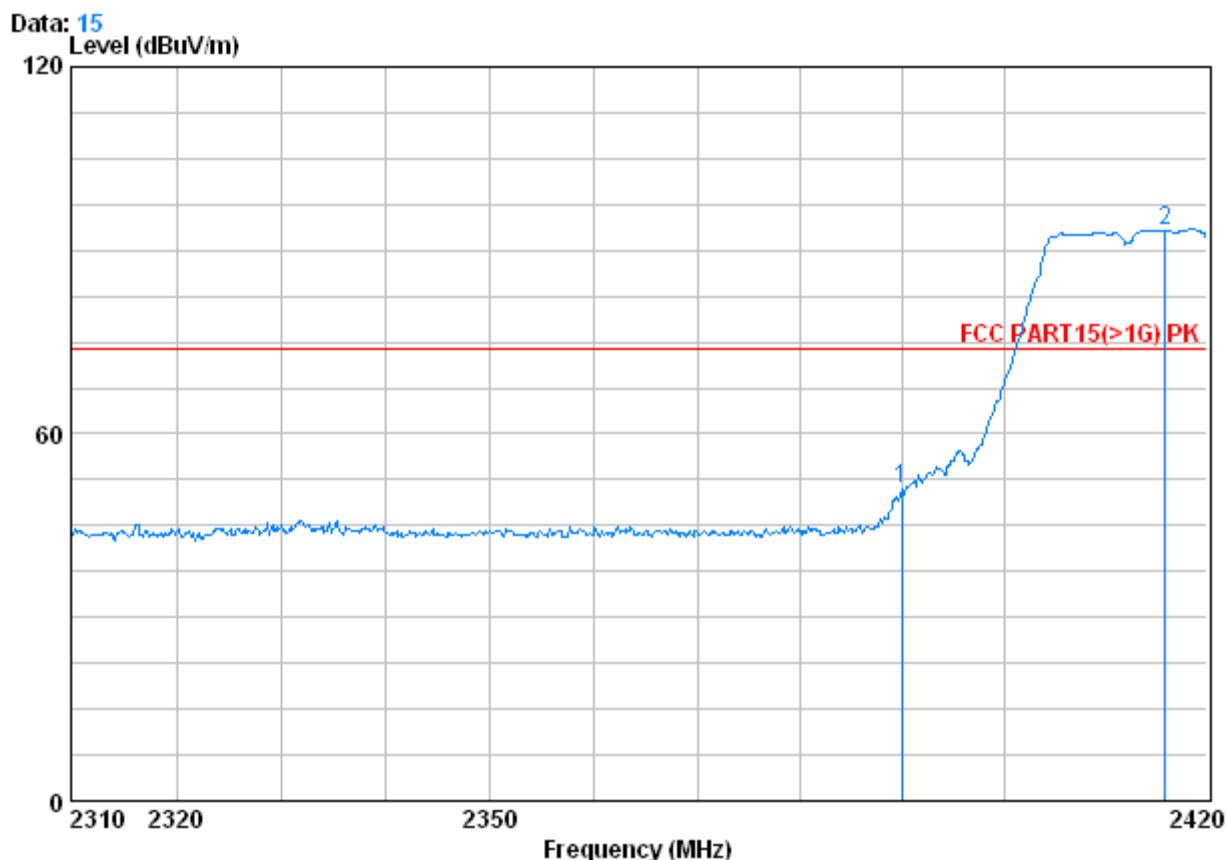
Freq	Cable Loss	Antenna Factor	Preamp Factor	Read	Limit Line	Over Limit
				Level		
1 0	2460.850	3.02	32.64	39.91	105.50	101.25
2	2483.500	3.03	32.67	39.92	49.65	45.43

MHz dB dB/m dB dBuV dBuV/m dBuV/m dB

2460.850 3.02 32.64 39.91 105.50 101.25 54.00 47.25

2483.500 3.03 32.67 39.92 49.65 45.43 54.00 -8.57

Worse case mode:	802.11g	Test channel:	Lowest	Remark:	Peak	Vertical
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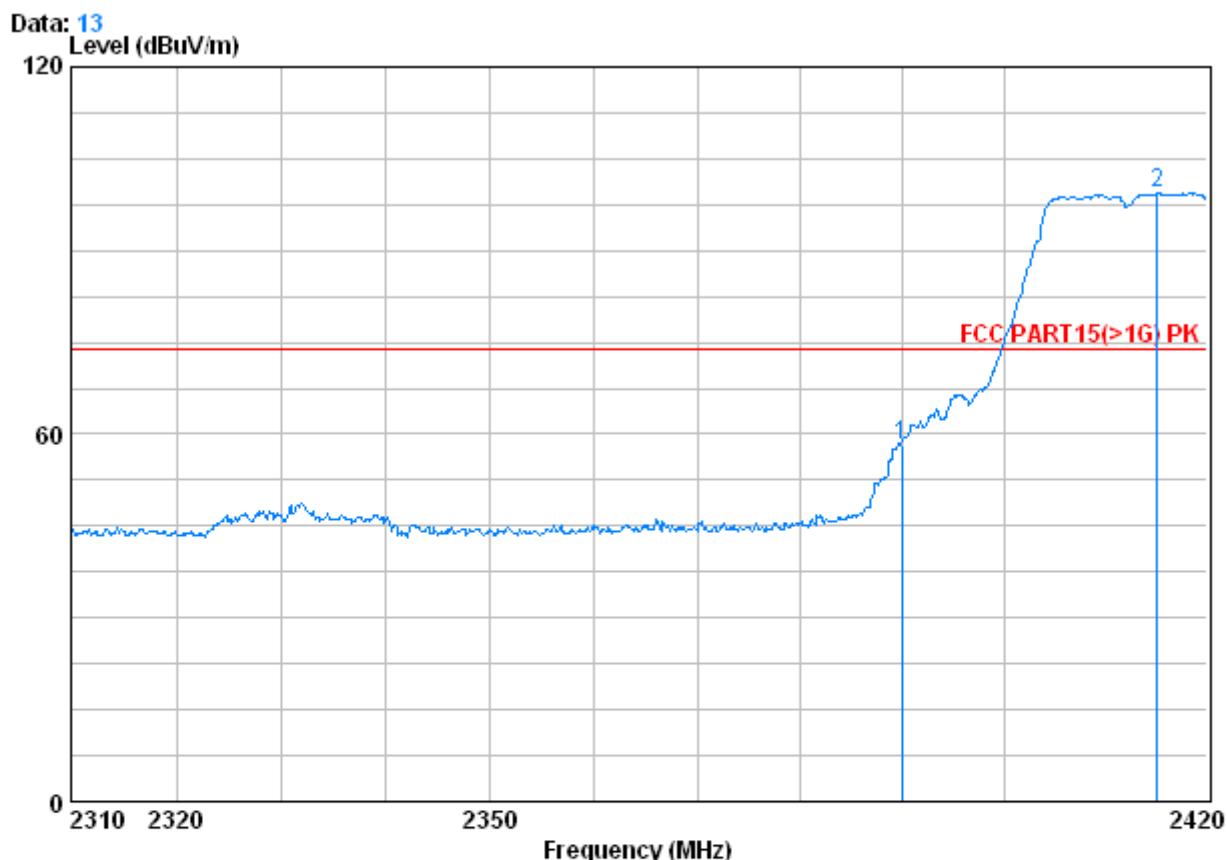
Condition : FCC PART15(>1G) PK 3m VERTICAL

Job No. : 1327RF

Mode : 2412 G

Freq	Cable			Antenna	Preamp	Read	Limit	Over	
	Loss	Factor	Factor			Level			
	MHz	dB	dB/m		dB	dBuV	dBuV/m	dBuV/m	dB
1	2390.000	2.98	32.51	39.85	55.38	51.03	74.00	-22.97	
2 X	2415.930	2.99	32.54	39.88	97.60	93.26	74.00	19.26	

Worse case mode:	802.11g	Test channel:	Lowest	Remark:	Peak	Horizontal
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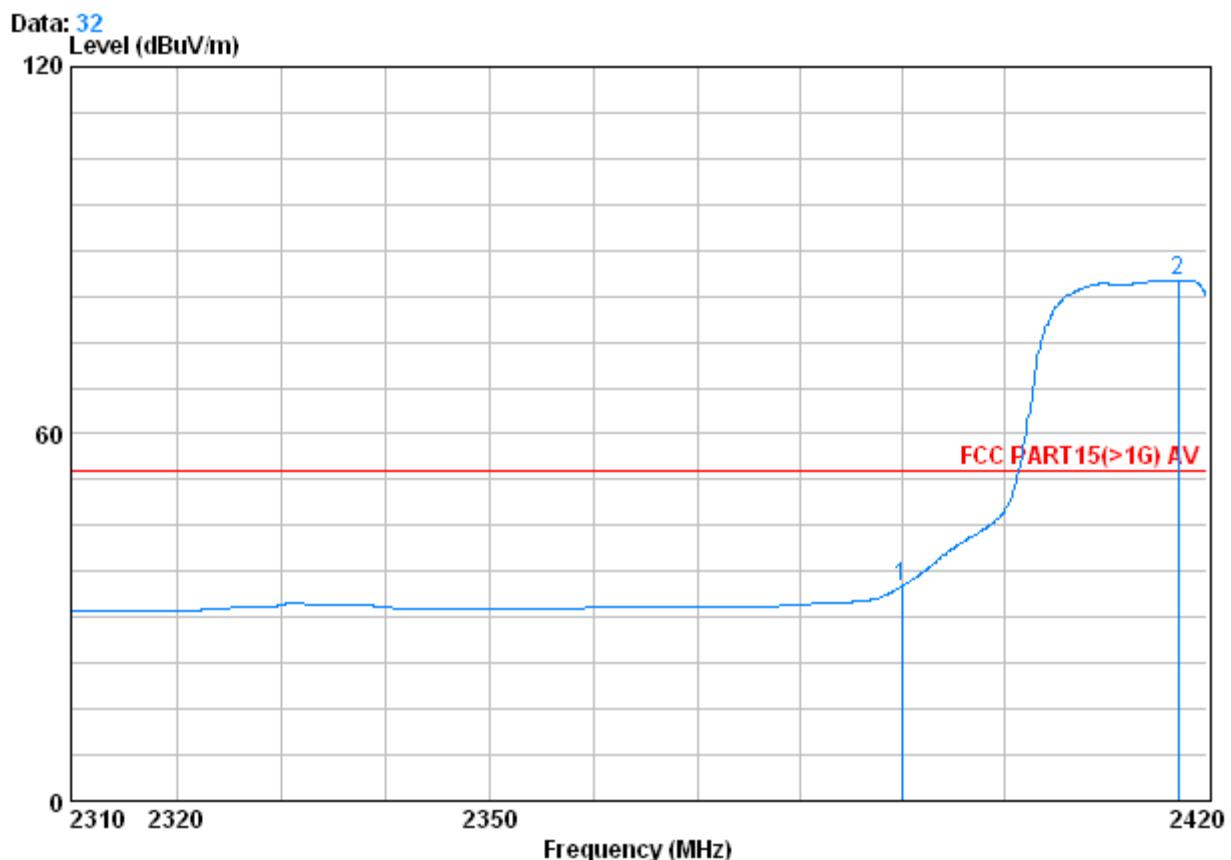
Condition : FCC PART15(>1G) PK 3m HORIZONTAL

Job No. : 1327RF

Mode : 2412 G

Freq	Cable		Antenna	Preamp	Read	Limit	Over	
	Loss	Factor	Factor	Level	Level			
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2390.000	2.98	32.51	39.85	62.62	58.26	74.00	-15.74
2 X	2415.050	2.99	32.54	39.86	103.70	99.37	74.00	25.37

Worse case mode:	802.11g	Test channel:	Lowest	Remark:	Average	Vertical
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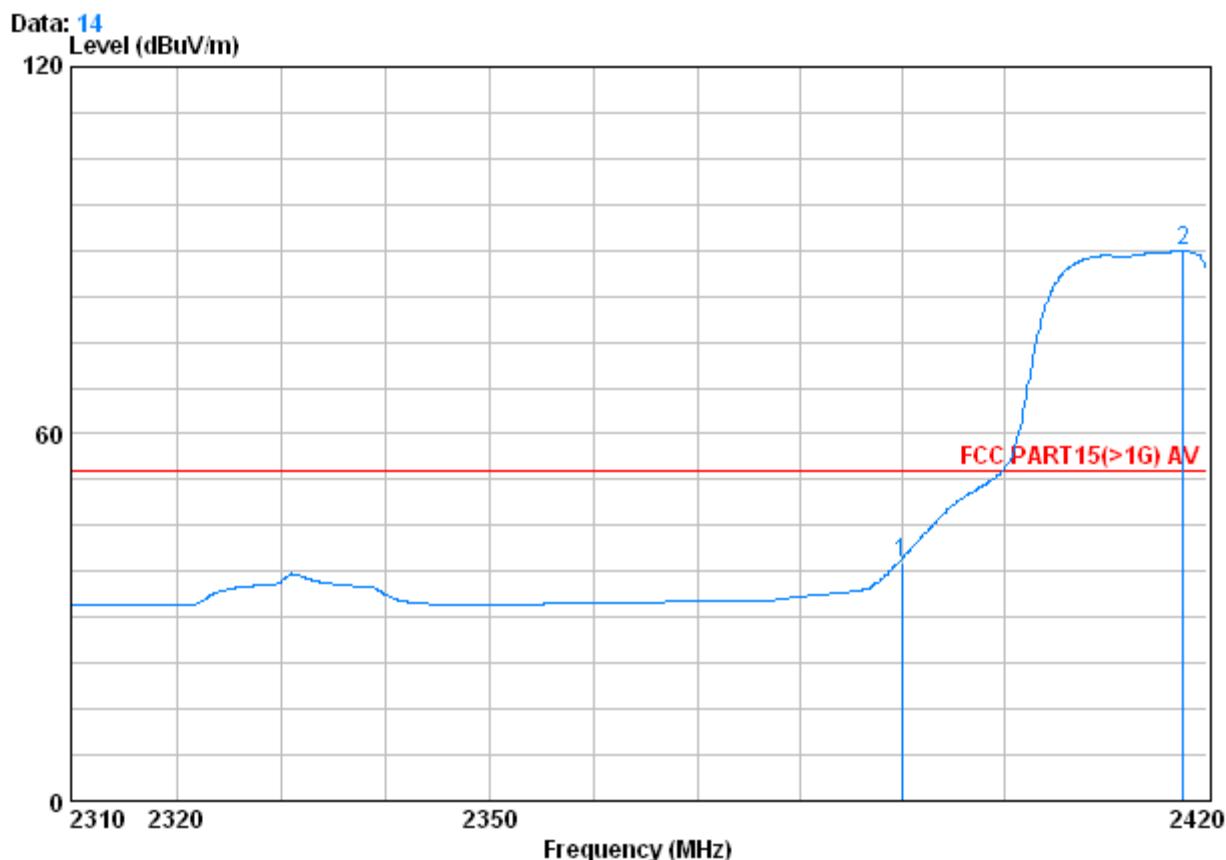
Condition : FCC PART15(>1G) AV 3m VERTICAL

Job No. : 1327RF

Mode : 2412 G

	Freq	Cable Loss	Antenna Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit
	MHz	dB	dB/m		dBuV	dBuV/m	dBuV/m	dB
1	2390.000	2.98	32.51	39.85	39.49	35.14	54.00	-18.86
2	2417.140	2.99	32.54	39.88	89.44	85.10	54.00	31.10

Worse case mode:	802.11g	Test channel:	Lowest	Remark:	Average	Horizontal
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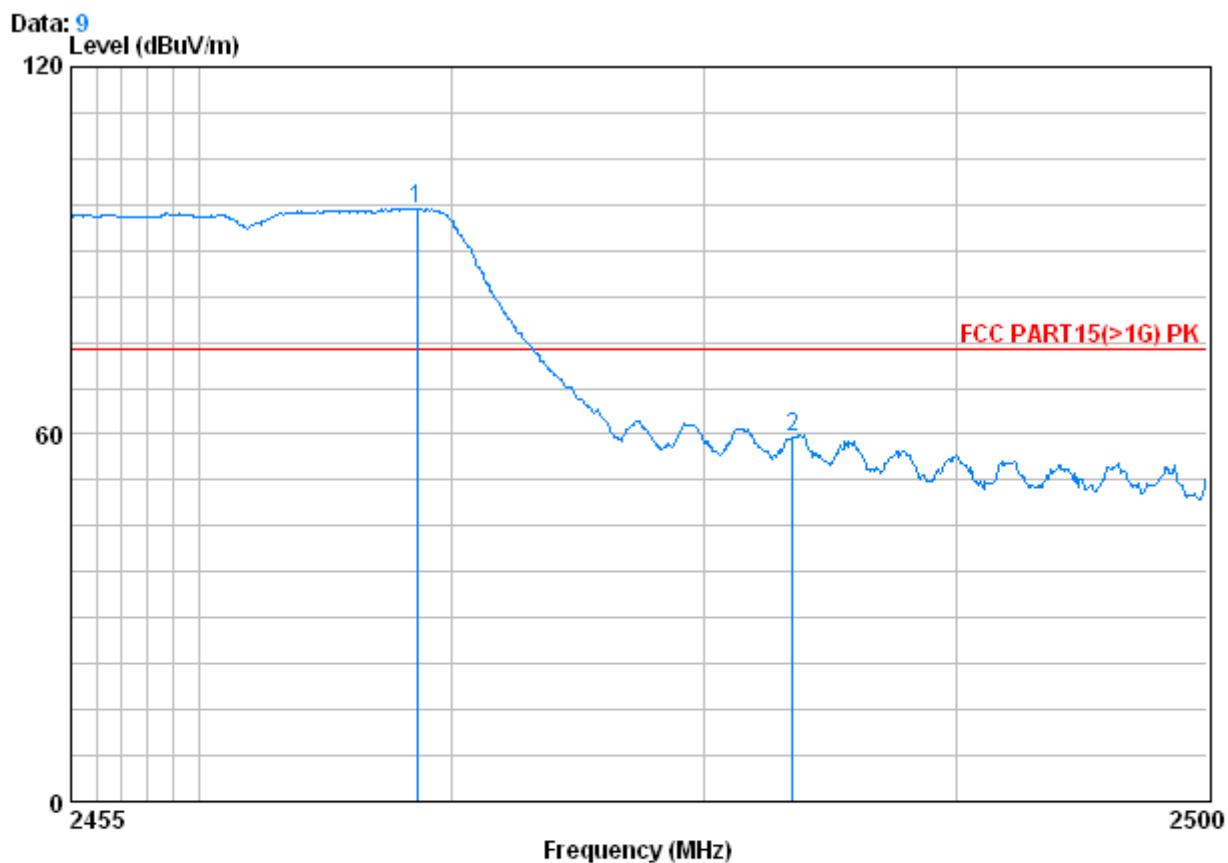
Condition : FCC PART15(>1G) AV 3m HORIZONTAL

Job No. : 1327RF

Mode : 2412 G

	Freq	Cable Loss	Antenna Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit
	MHz	dB	dB/m		dBuV	dBuV/m	dBuV/m	dB
1	2390.000	2.98	32.51	39.85	43.42	39.07	54.00	-14.93
2	2417.690	2.99	32.54	39.88	94.13	89.78	54.00	35.78

Worse case mode:	802.11g	Test channel:	Highest	Remark:	Peak	Vertical
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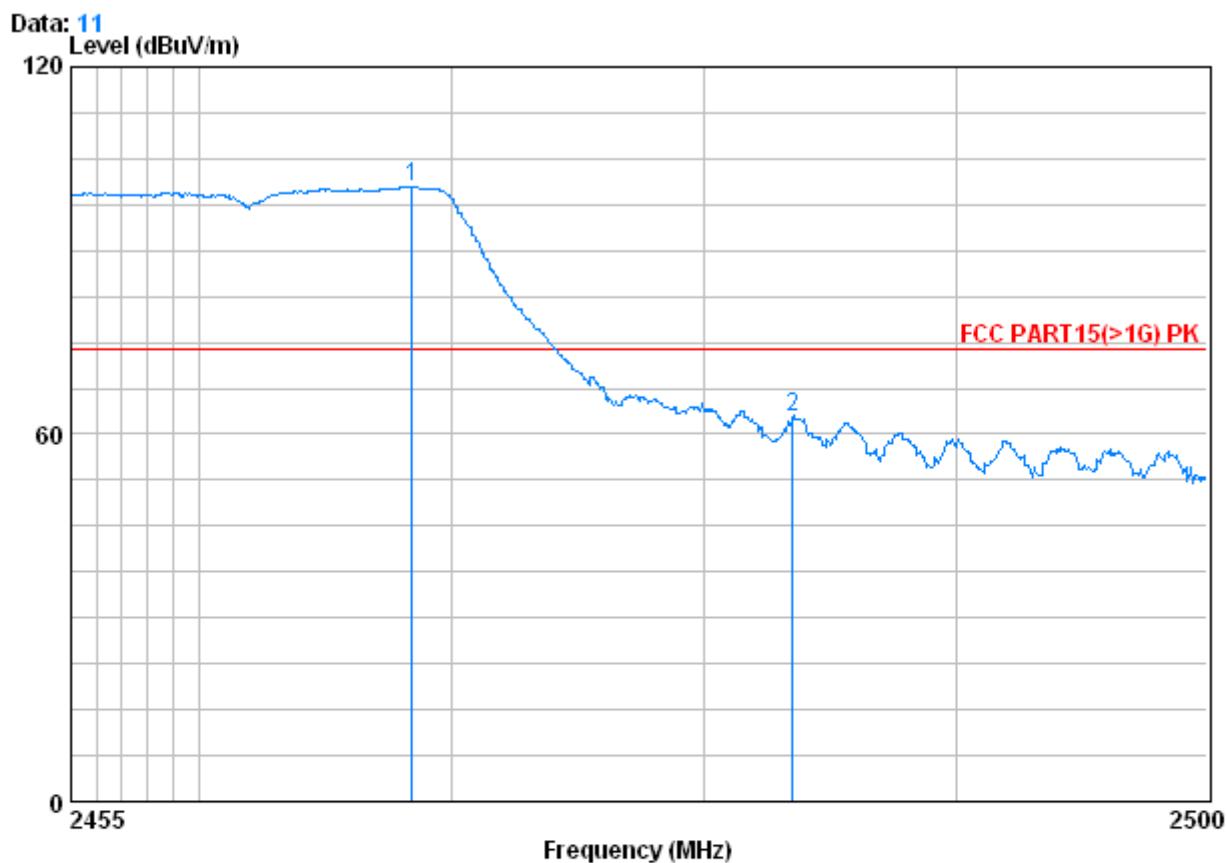
Condition : FCC PART15(>1G) PK 3m VERTICAL

Job No. : 1327RF

Mode : 2462 G

Freq	Cable		Antenna	Preamp	Read	Limit	Over	
	Loss	Factor	Factor	Level	Level			
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 X	2468.635	3.02	32.64	39.91	101.11	96.86	74.00	22.86
2	2483.500	3.03	32.67	39.92	63.65	59.43	74.00	-14.57

Worse case mode:	802.11g	Test channel:	Highest	Remark:	Peak	Horizontal
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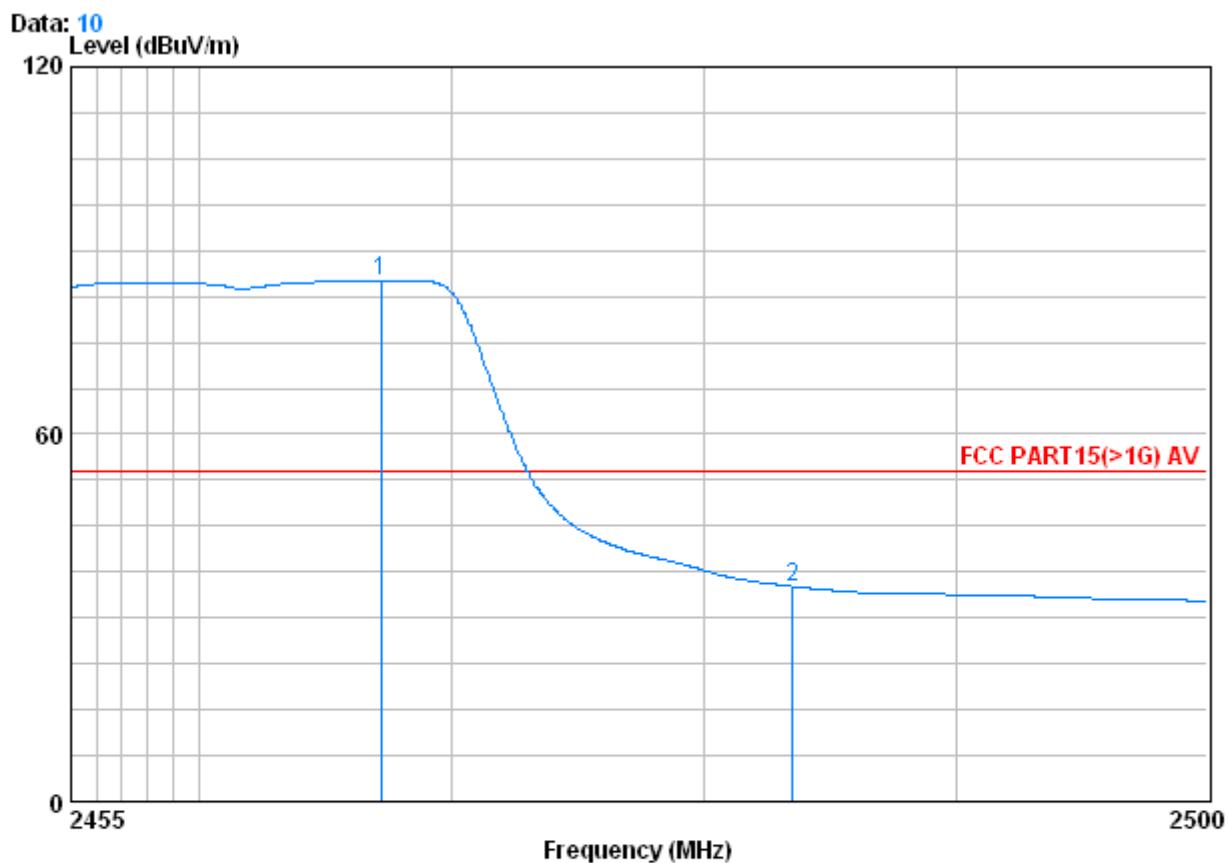
Condition : FCC PART15(>1G) PK 3m HORIZONTAL

Job No. : 1327RF

Mode : 2462 G

Freq	Cable		Antenna	Preamp	Read	Limit	Line	Over
	MHz	dB	Loss Factor	Factor	Level			
1 X	2468.410	3.02	32.64	39.91	104.56	100.31	74.00	26.31
2	2483.500	3.03	32.67	39.92	66.85	62.63	74.00	-11.37

Worse case mode:	802.11g	Test channel:	Highest	Remark:	Average	Vertical
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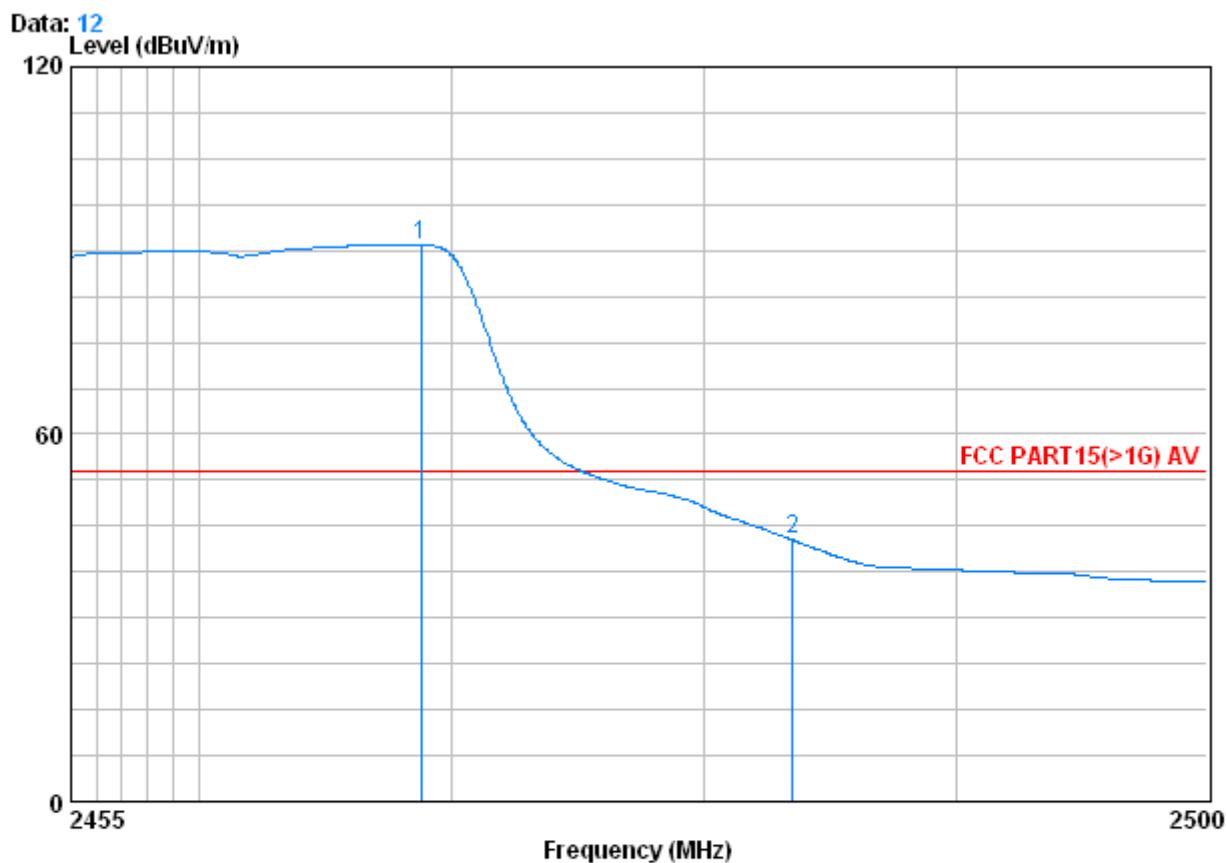
Condition : FCC PART15(>1G) AV 3m VERTICAL

Job No. : 1327RF

Mode : 2462 G

Freq	Cable		Antenna	Preamp	Read	Limit	Line	Over
	Loss	Factor	Factor	Level	Level			
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2467.195	3.02	32.64	39.91	89.40	85.15	54.00	31.15
2	2483.500	3.03	32.67	39.92	39.34	35.12	54.00	-18.88

Worse case mode:	802.11g	Test channel:	Highest	Remark:	Average	Horizontal
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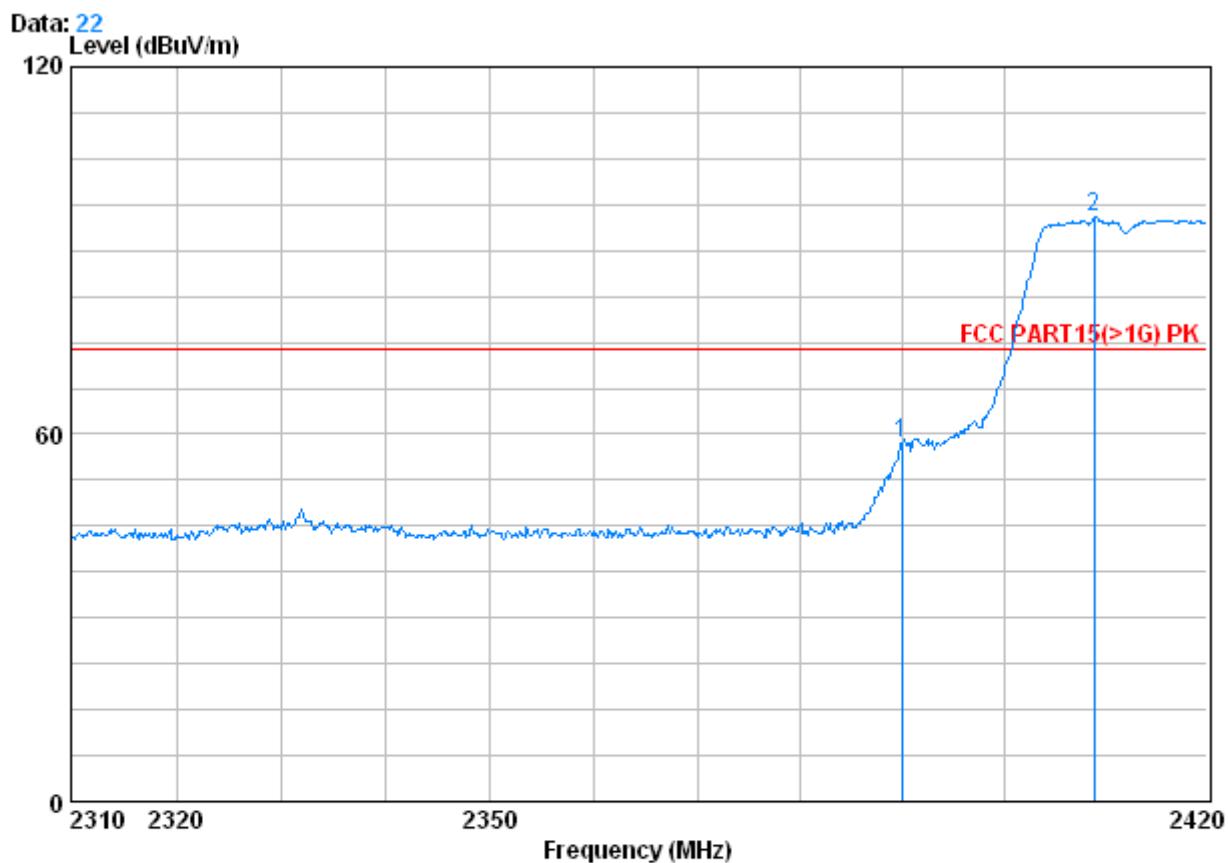
Condition : FCC PART15(>1G) AV 3m HORIZONTAL

Job No. : 1327RF

Mode : 2462 G

Freq	Cable			Antenna	Preamp	Read	Limit	Over
	MHz	dB	dB/m	Factor	Factor	Level		
1	2468.770	3.02	32.64	39.91	95.24	91.00	54.00	37.00
2	2483.500	3.03	32.67	39.92	46.96	42.74	54.00	-11.26

Worse case mode:	802.11n(HT20)	Test channel:	Lowest	Remark:	Peak	Vertical
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Condition : FCC PART15(>1G) PK 3m VERTICAL

Job No. : 1327RF

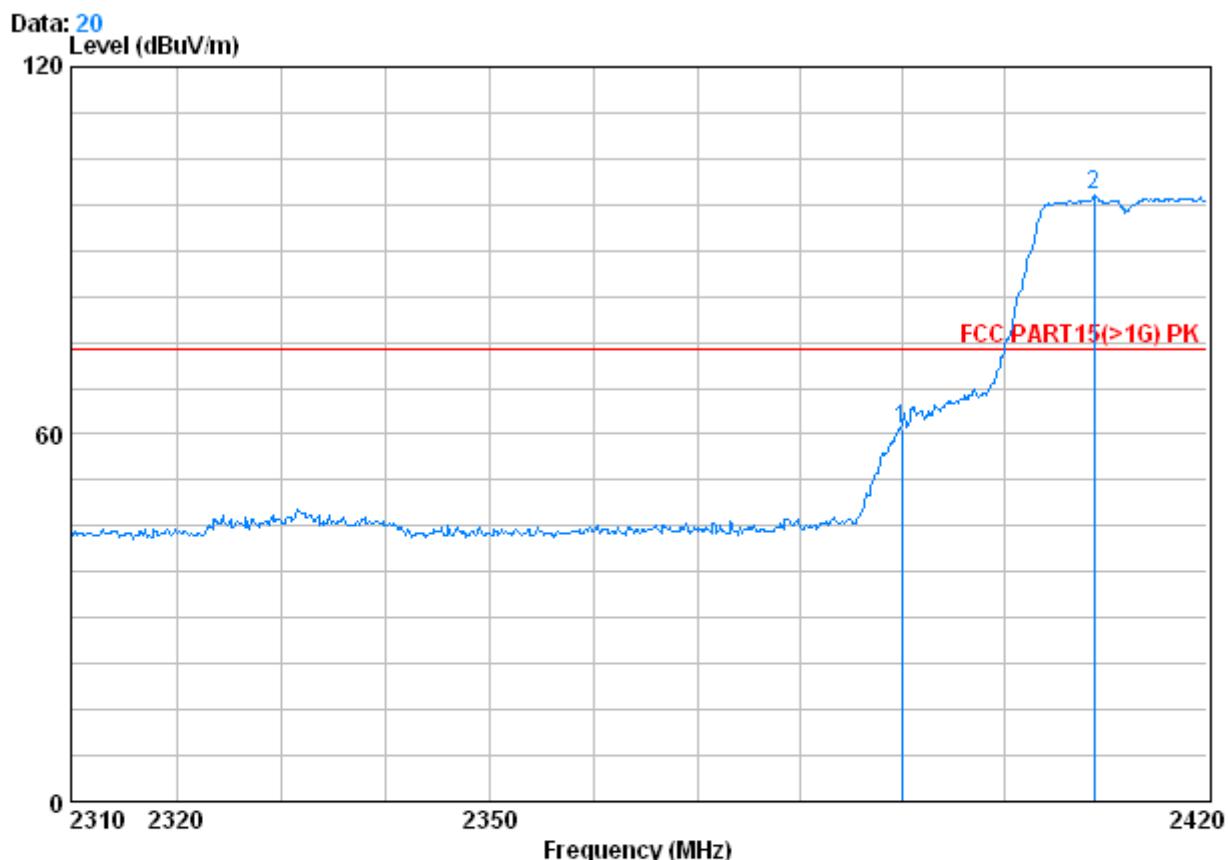
Mode : 2412 N

	Freq	Cable		Antenna	Preamp	Read	Limit	Over
		Loss	Factor	Factor	Level	Level		
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2390.000	2.98	32.51	39.85	62.91	58.56	74.00	-15.44
2 X	2408.890	2.99	32.54	39.86	99.82	95.49	74.00	21.49



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Worse case mode:	802.11n(HT20)	Test channel:	Lowest	Remark:	Peak	Horizontal
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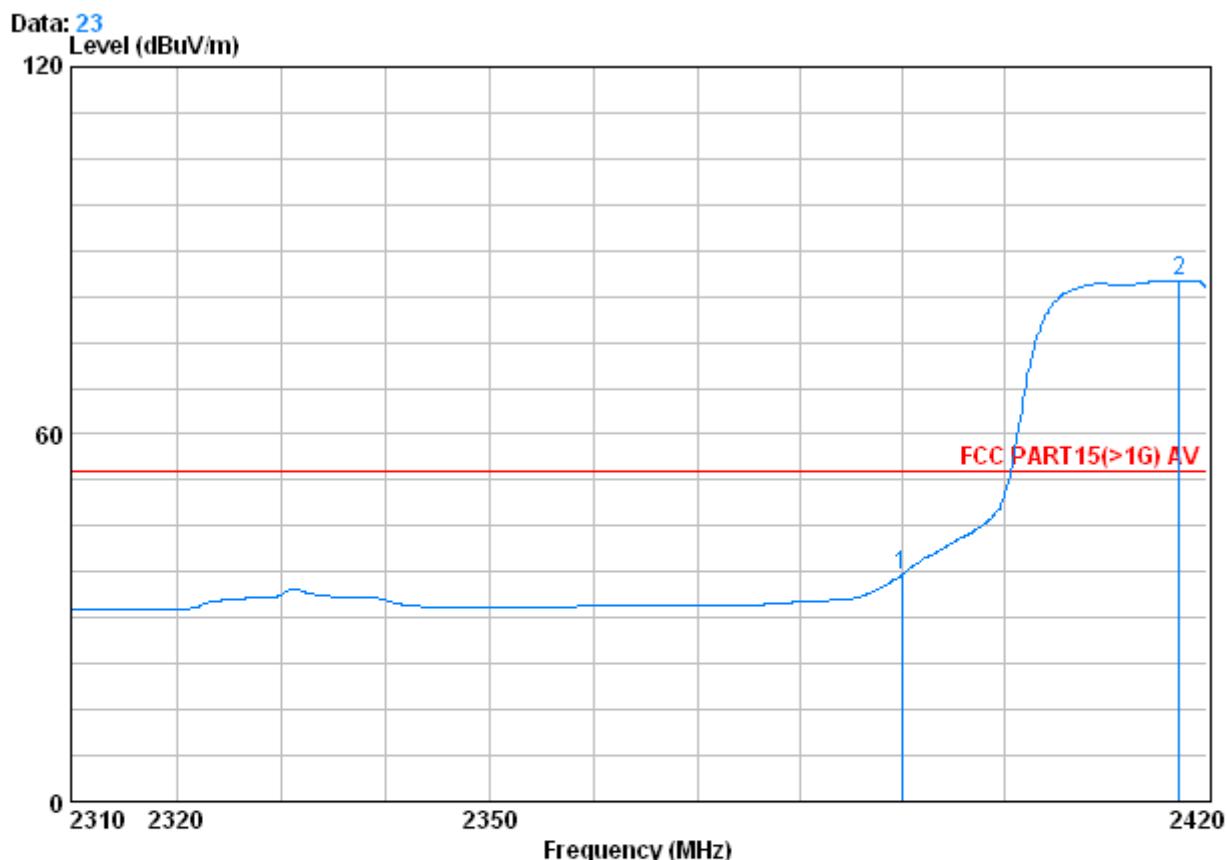
Condition : FCC PART15(>1G) PK 3m HORIZONTAL

Job No. : 1327RF

Mode : 2412 N

Freq	Cable		Antenna	Preamp	Read	Limit	Over	
	Loss	Factor	Factor	Level	Level			
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2390.000	2.98	32.51	39.85	65.06	60.70	74.00	-13.30
2 X	2408.890	2.99	32.54	39.86	103.38	99.05	74.00	25.05

Worse case mode:	802.11n(HT20)	Test channel:	Lowest	Remark:	Average	Vertical
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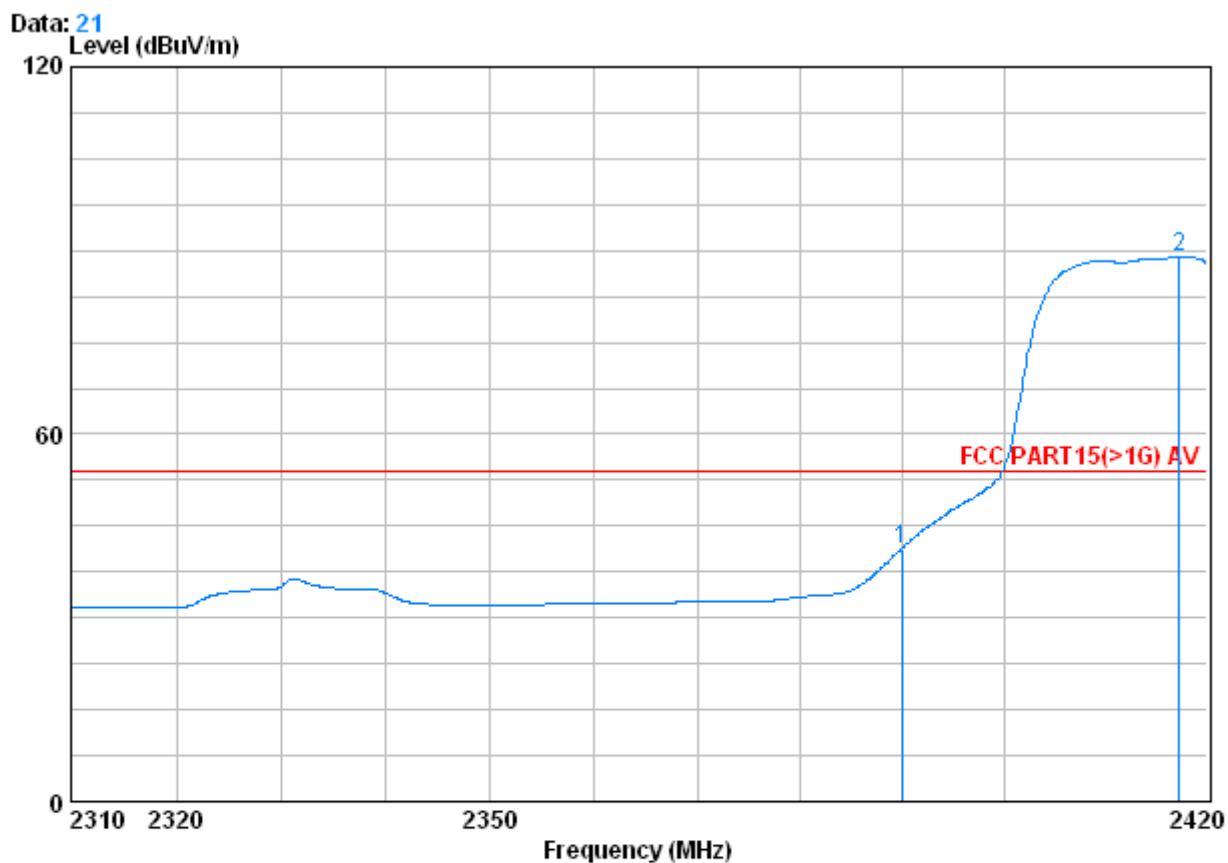
Condition : FCC PART15(>1G) AV 3m VERTICAL

Job No. : 1327RF

Mode : 2412 N

Freq	Cable			Antenna	Preamp	Read	Limit	Over
	Loss	Factor	Factor	Level	Level	Line		
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2390.000	2.98	32.51	39.85	41.21	36.86	54.00	-17.14
2 X	2417.250	2.99	32.54	39.88	89.38	85.04	54.00	31.04

Worse case mode:	802.11n(HT20)	Test channel:	Lowest	Remark:	Average	Horizontal
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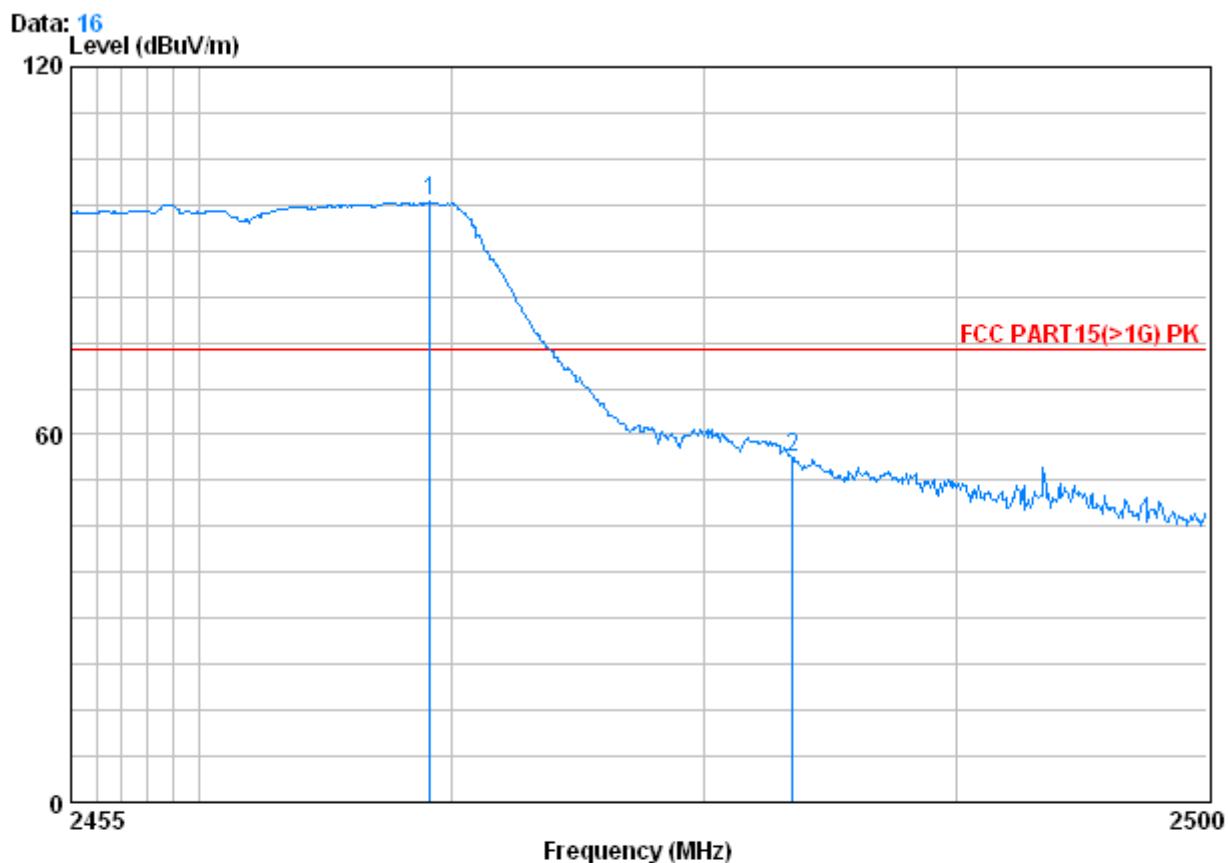
Condition : FCC PART15(>1G) AV 3m HORIZONTAL

Job No. : 1327RF

Mode : 2412 N

	Freq	Cable		Antenna	Preamp	Read	Limit	Over
		Loss	Factor	Factor	Level	Level		
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2390.000	2.98	32.51	39.85	45.45	41.09	54.00	-12.91
2	2417.250	2.99	32.54	39.88	93.26	88.92	54.00	34.92

Worse case mode:	802.11n(HT20)	Test channel:	Highest	Remark:	Peak	Vertical
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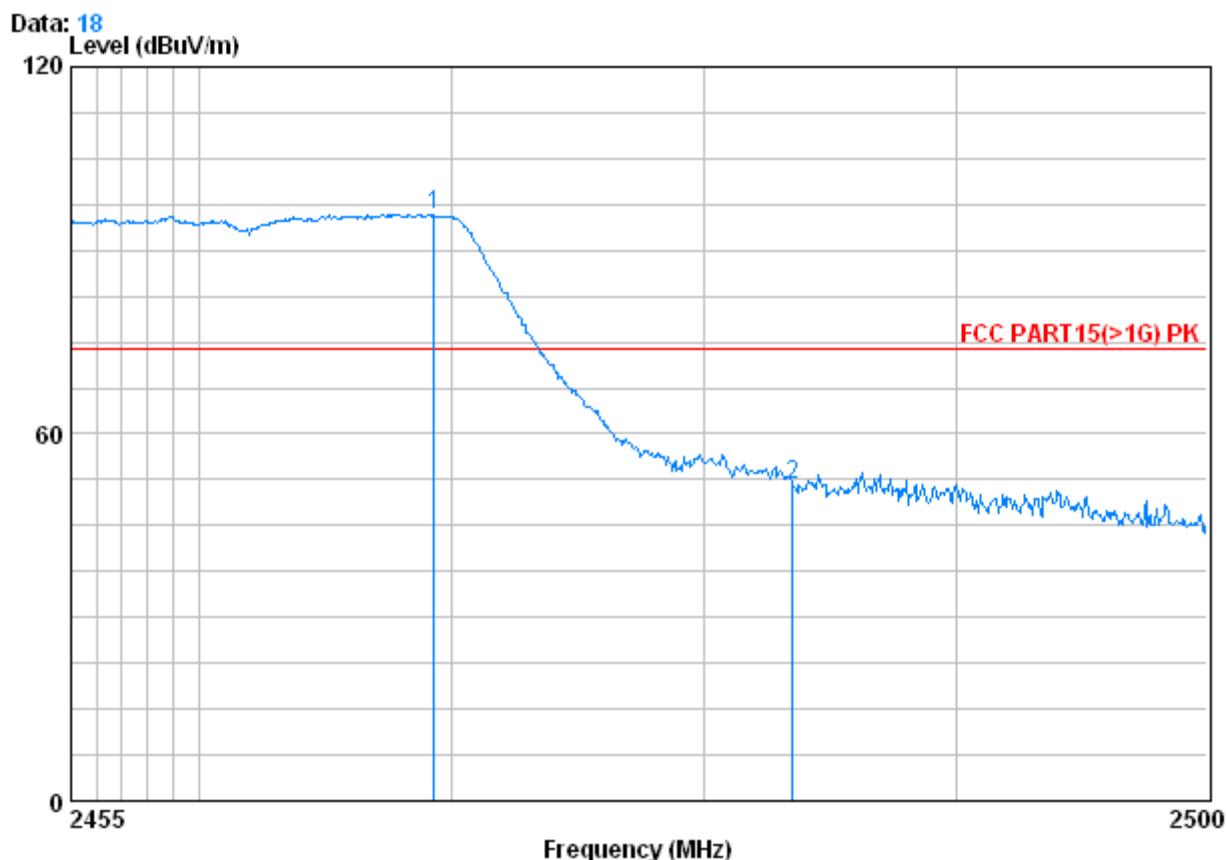
Condition : FCC PART15(>1G) PK 3m VERTICAL

Job No. : 1327RF

Mode : 2462 N

Freq	Cable		Antenna	Preamp	Read	Limit	Line	Over
	MHz	dB	Loss Factor	Factor	Level			
1 X	2469.130	3.02	32.64	39.91	102.20	97.96	74.00	23.96
2	2483.500	3.03	32.67	39.92	60.48	56.26	74.00	-17.74

Worse case mode:	802.11n(HT20)	Test channel:	Highest	Remark:	Peak	Horizontal
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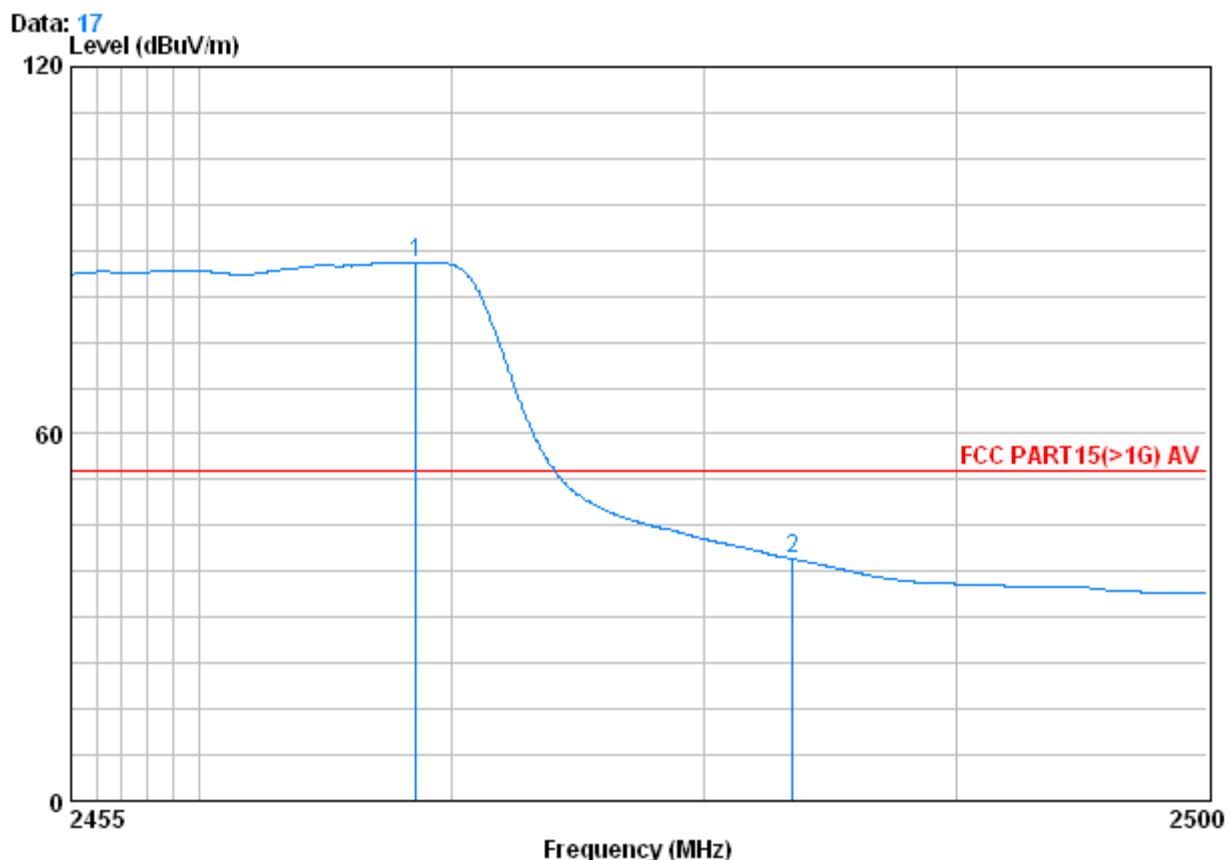
Condition : FCC PART15(>1G) PK 3m HORIZONTAL

Job No. : 1327RF

Mode : 2462 N

Freq	Cable			Antenna	Preamp	Read	Limit	Over
	Loss	Factor	Factor	Level	Level	Line		
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 X	2469.310	3.02	32.64	39.91	100.16	95.91	74.00	21.91
2	2483.500	3.03	32.67	39.92	56.03	51.81	74.00	-22.19

Worse case mode:	802.11n(HT20)	Test channel:	Highest	Remark:	Average	Vertical
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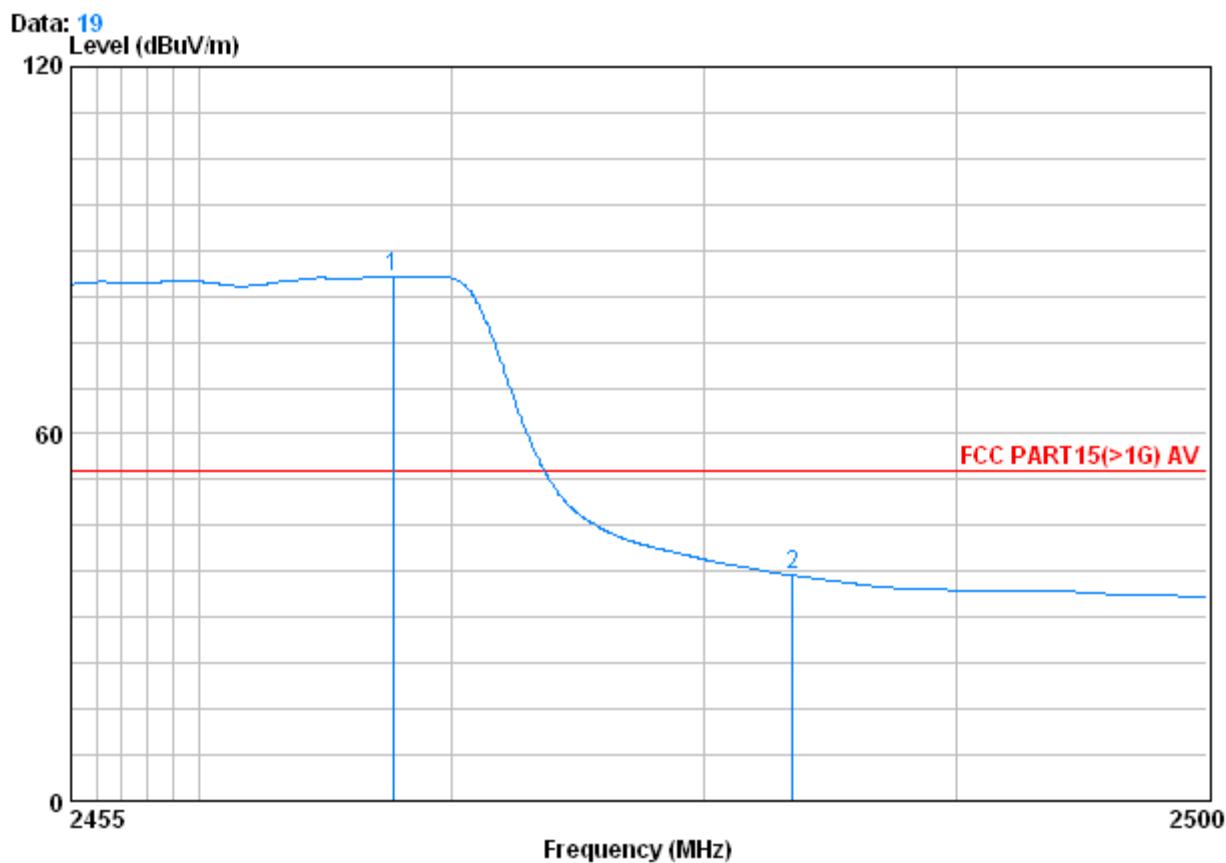
Condition : FCC PART15(>1G) AV 3m VERTICAL

Job No. : 1327RF

Mode : 2462 N

Freq	Cable			Antenna	Preamp	Read	Limit	Over
	Loss	Factor	Factor	Level	Level	Line		
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2468.590	3.02	32.64	39.91	92.23	87.99	54.00	33.99
2	2483.500	3.03	32.67	39.92	43.79	39.57	54.00	-14.43

Worse case mode:	802.11n(HT20)	Test channel:	Highest	Remark:	Average	Horizontal
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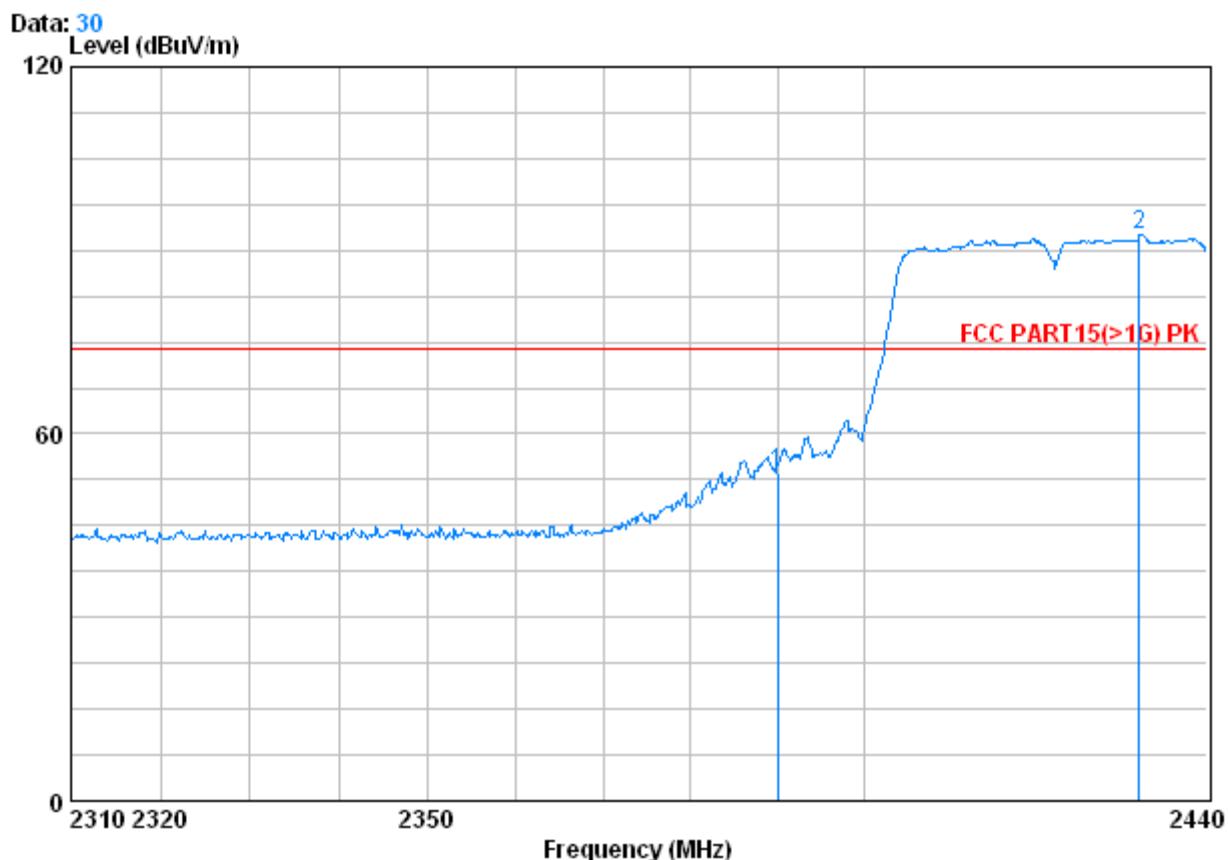
Condition : FCC PART15(>1G) AV 3m HORIZONTAL

Job No. : 1327RF

Mode : 2462 N

	Freq	Cable			Antenna	Preamp	Read	Limit	Over
		Loss	Factor	Factor	Level	Level	Line		
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m		dB
1	2467.690	3.02	32.64	39.91	90.08	85.83	54.00	31.83	
2	2483.500	3.03	32.67	39.92	41.11	36.89	54.00	-17.11	

Worse case mode:	802.11n(HT40)	Test channel:	Lowest	Remark:	Peak	Vertical
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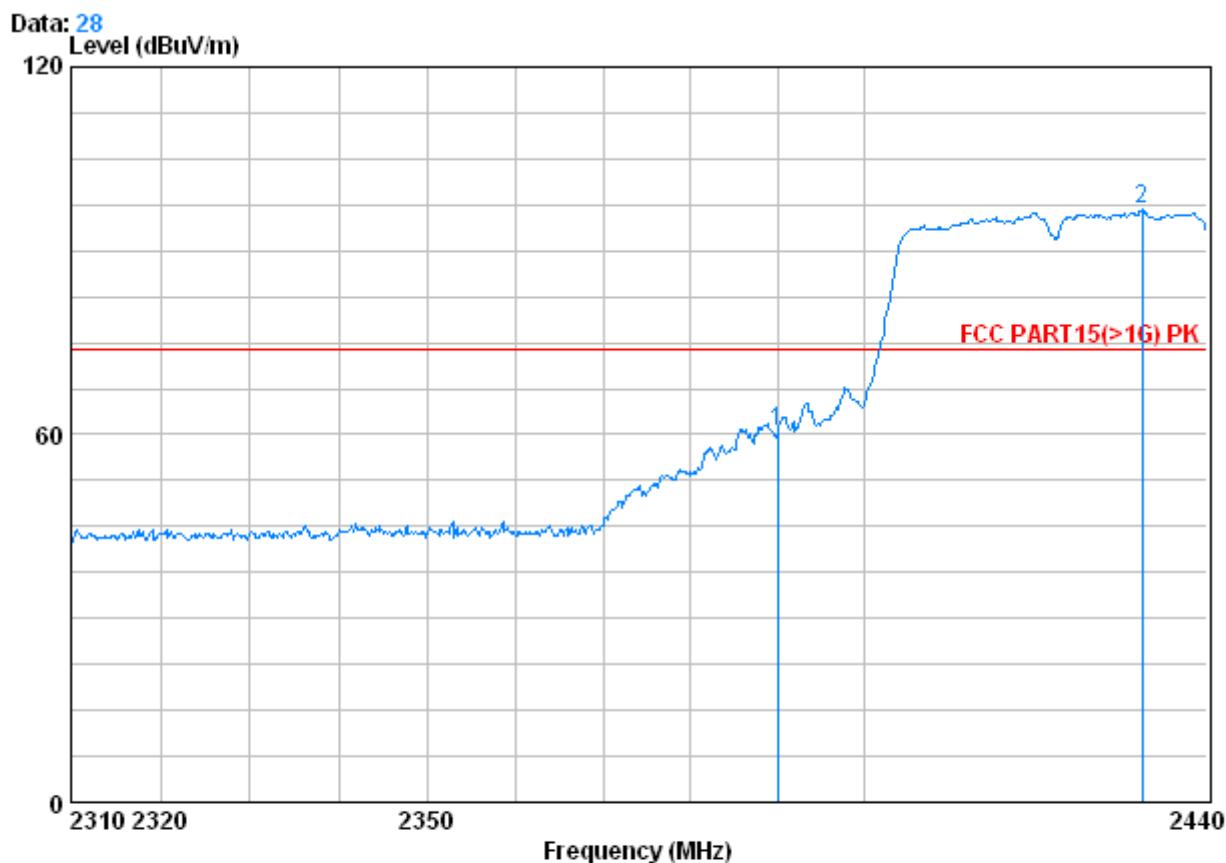
Condition : FCC PART15(>1G) PK 3m VERTICAL

Job No. : 1327RF

Mode : 2422

	Freq	Cable			Antenna	Preamp	Read	Limit	Over
		Loss	Factor	Factor	Level	Level	Line		
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m		dB
1	2390.000	2.98	32.51	39.85	58.08	53.73	74.00	-20.27	
2 X	2432.070	3.00	32.58	39.88	96.94	92.64	74.00	18.64	

Worse case mode:	802.11n(HT40)	Test channel:	Lowest	Remark:	Peak	Horizontal
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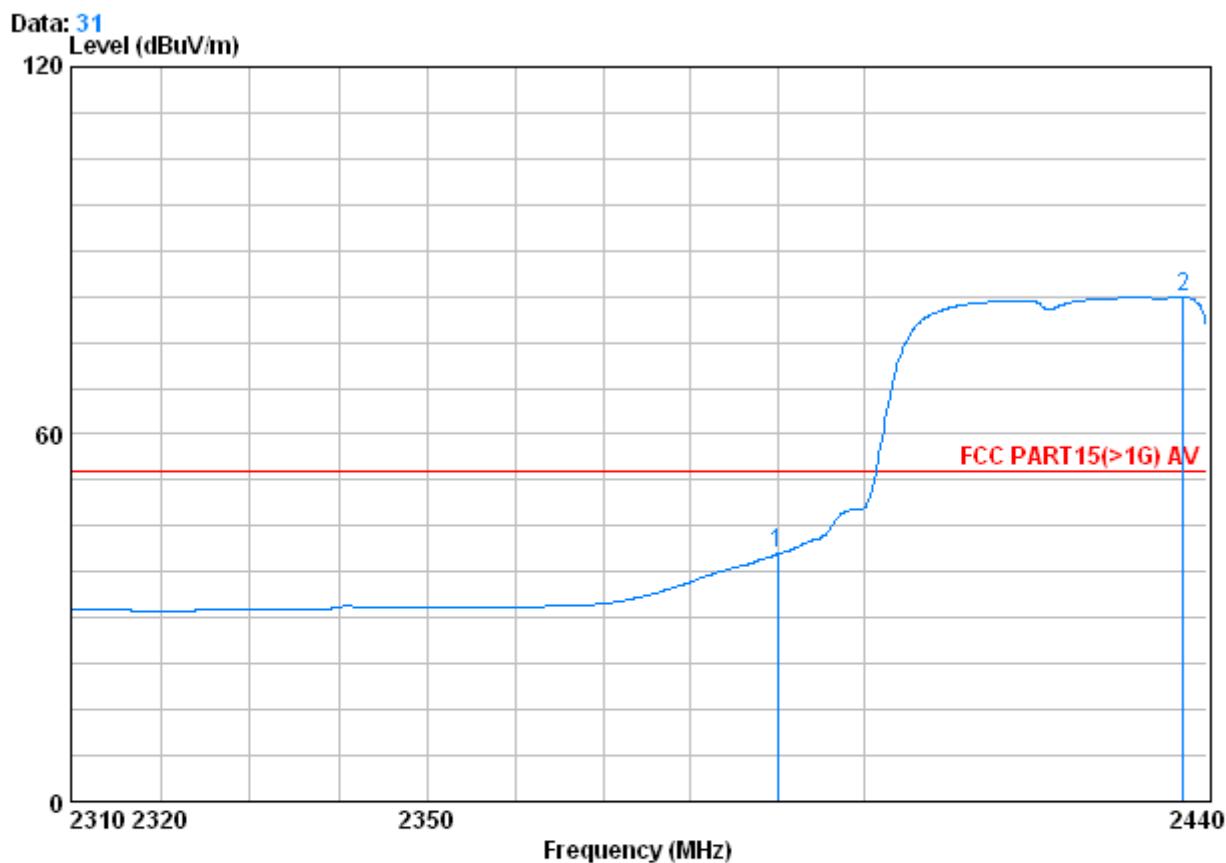
Condition : FCC PART15(>1G) PK 3m HORIZONTAL

Job No. : 1327RF

Mode : 2422

	Freq	Cable Loss	Antenna Factor	Preamp Factor	Read Level	Limit Level	Line Limit	Over Limit
	MHz	dB	dB/m		dBuV	dBuV/m	dBuV/m	dB
1	2390.000	2.98	32.51	39.85	64.99	60.63	74.00	-13.37
2 X	2432.460	3.00	32.58	39.88	100.98	96.68	74.00	22.68

Worse case mode:	802.11n(HT40)	Test channel:	Lowest	Remark:	Average	Vertical
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Condition : FCC PART15(>1G) AV 3m VERTICAL

Job No. : 1327RF

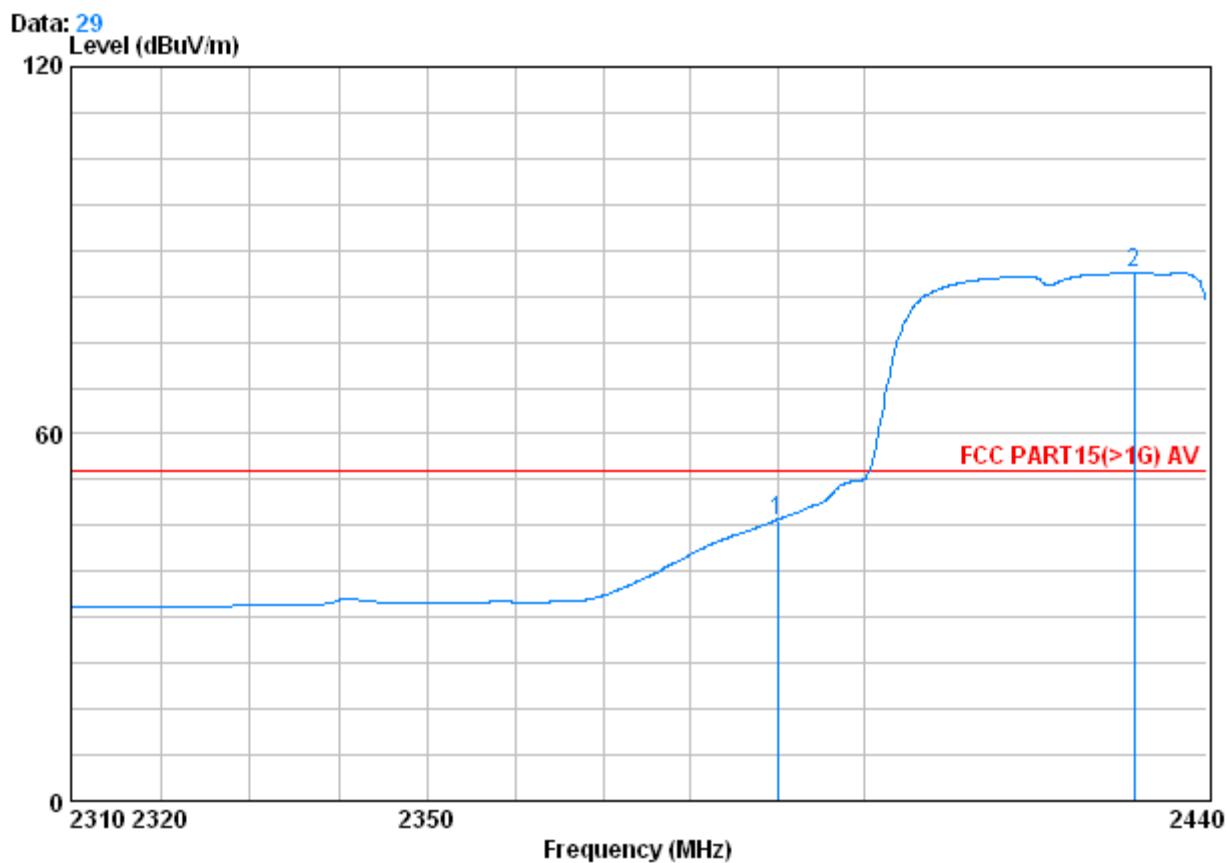
Mode : 2422

	Freq	Cable	Antenna	Preamp	Read	Limit	Over	
		Loss	Factor	Factor	Level			
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2390.000	2.98	32.51	39.85	44.76	40.40	54.00	-13.60
2 X	2437.270	3.00	32.61	39.89	86.66	82.38	54.00	28.38



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Worse case mode:	802.11n(HT40)	Test channel:	Lowest	Remark:	Average	Horizontal
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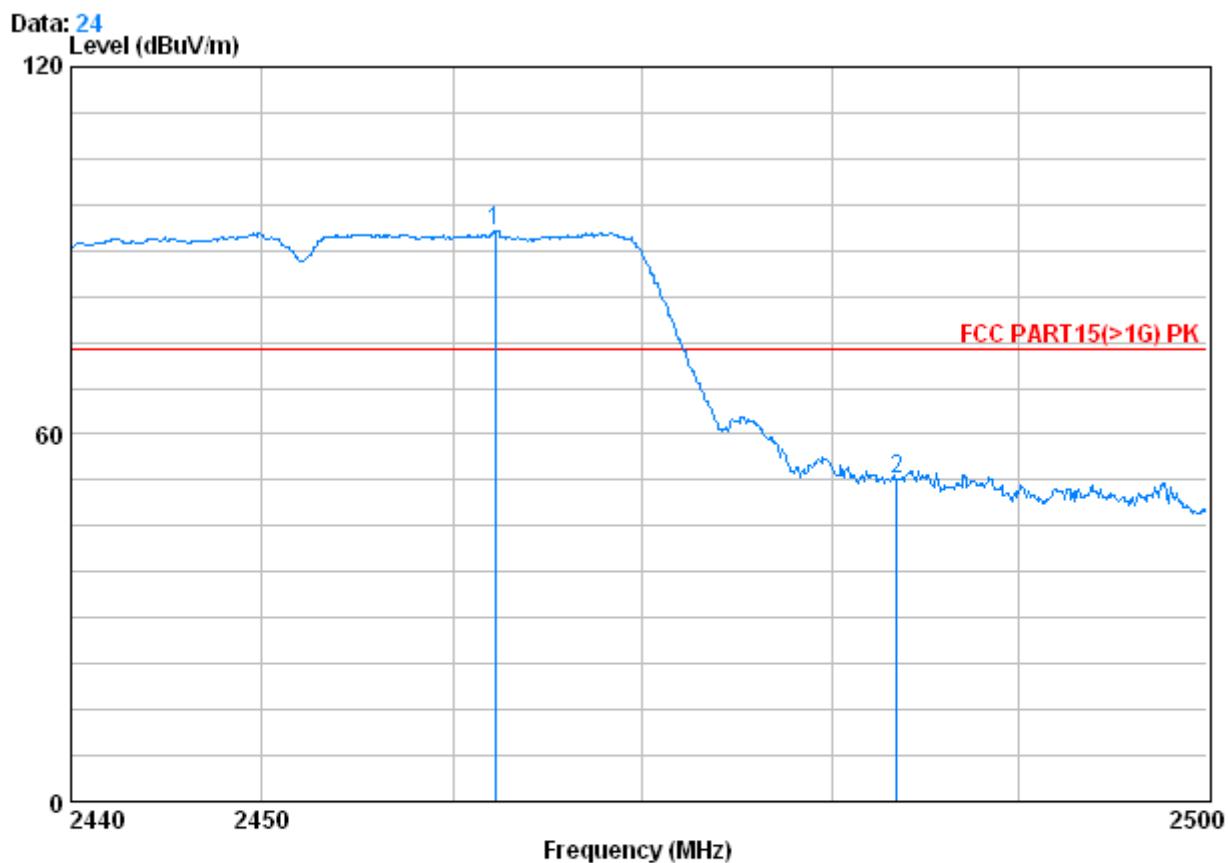
Condition : FCC PART15(>1G) AV 3m HORIZONTAL

Job No. : 1327RF

Mode : 2422

	Freq	Cable			Antenna	Preamp	Read	Limit	Over
		Loss	Factor	Factor	Level	Level	Line		
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m		dB
1	2390.000	2.98	32.51	39.85	50.17	45.81	54.00	-8.19	
2	2431.420	3.00	32.58	39.88	90.64	86.33	54.00	32.33	

Worse case mode:	802.11n(HT40)	Test channel:	Highest	Remark:	Peak	Vertical
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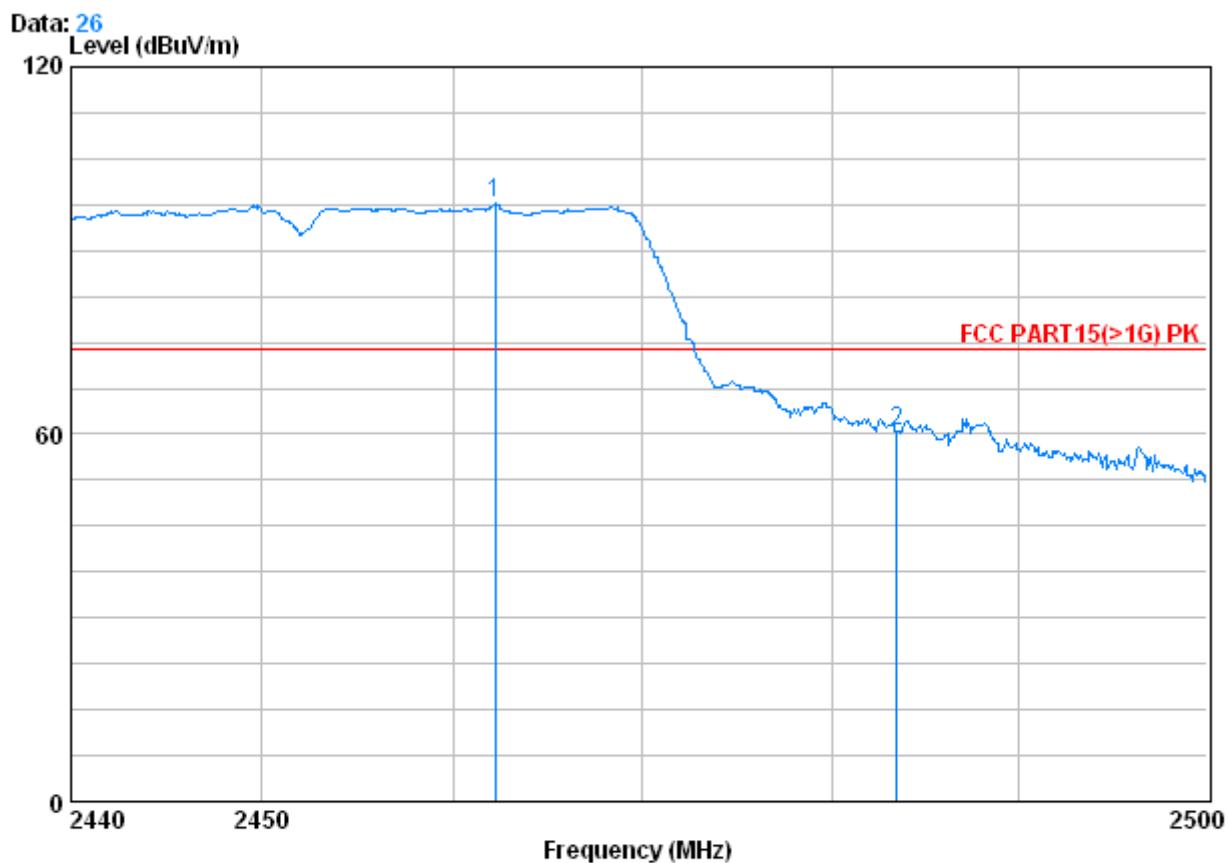
Condition : FCC PART15(>1G) PK 3m VERTICAL

Job No. : 1327RF

Mode : 2452

Freq	Cable		Antenna	Preamp	Read	Limit	Over	
	Loss	Factor	Factor	Level	Level			
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 X	2462.260	3.02	32.64	39.91	97.58	93.33	74.00	19.33
2	2483.500	3.03	32.67	39.92	56.90	52.68	74.00	-21.32

Worse case mode:	802.11n(HT40)	Test channel:	Highest	Remark:	Peak	Horizontal
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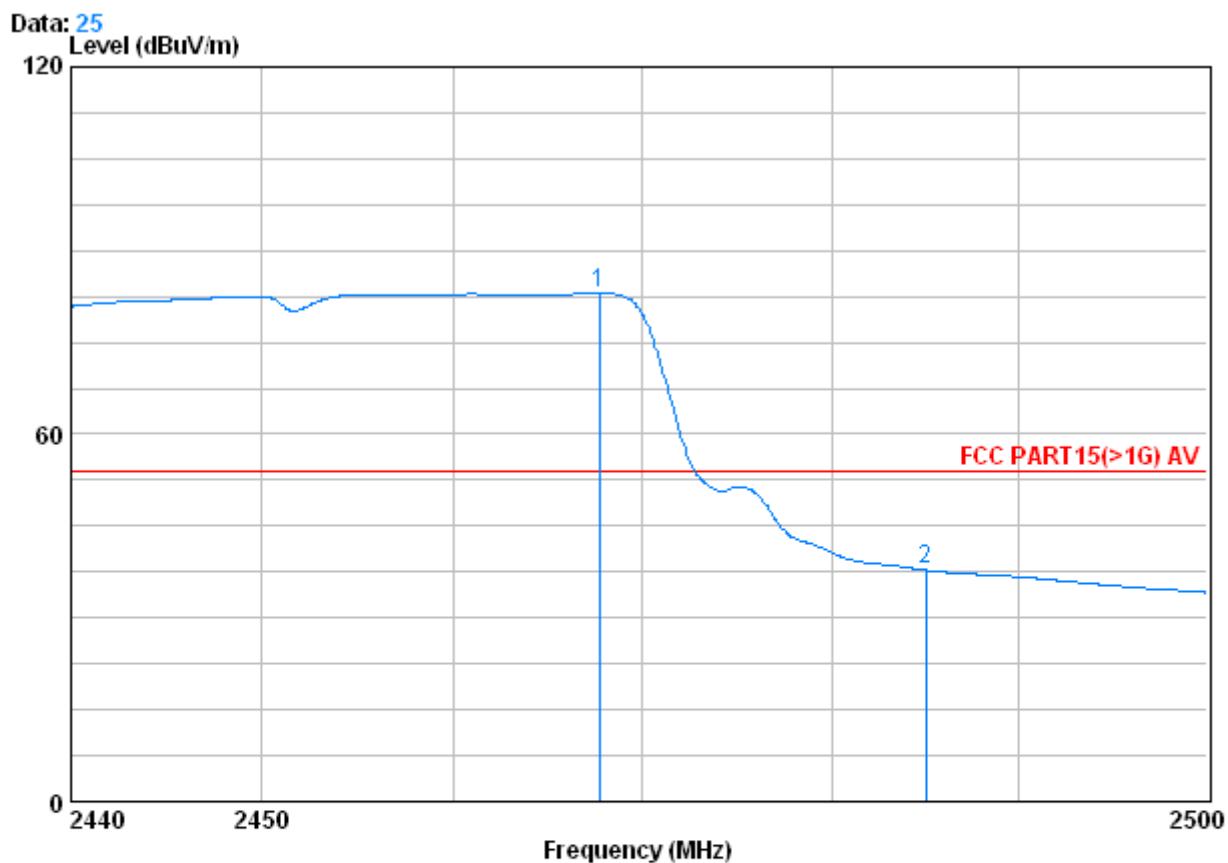
Condition : FCC PART15(>1G) PK 3m HORIZONTAL

Job No. : 1327RF

Mode : 2452

Freq	Cable		Antenna	Preamp	Read	Limit	Over	
	Loss	Factor	Factor	Level	Level			
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 X	2462.260	3.02	32.64	39.91	101.88	97.63	74.00	23.63
2	2483.500	3.03	32.67	39.92	64.66	60.44	74.00	-13.56

Worse case mode:	802.11n(HT40)	Test channel:	Highest	Remark:	Average	Vertical
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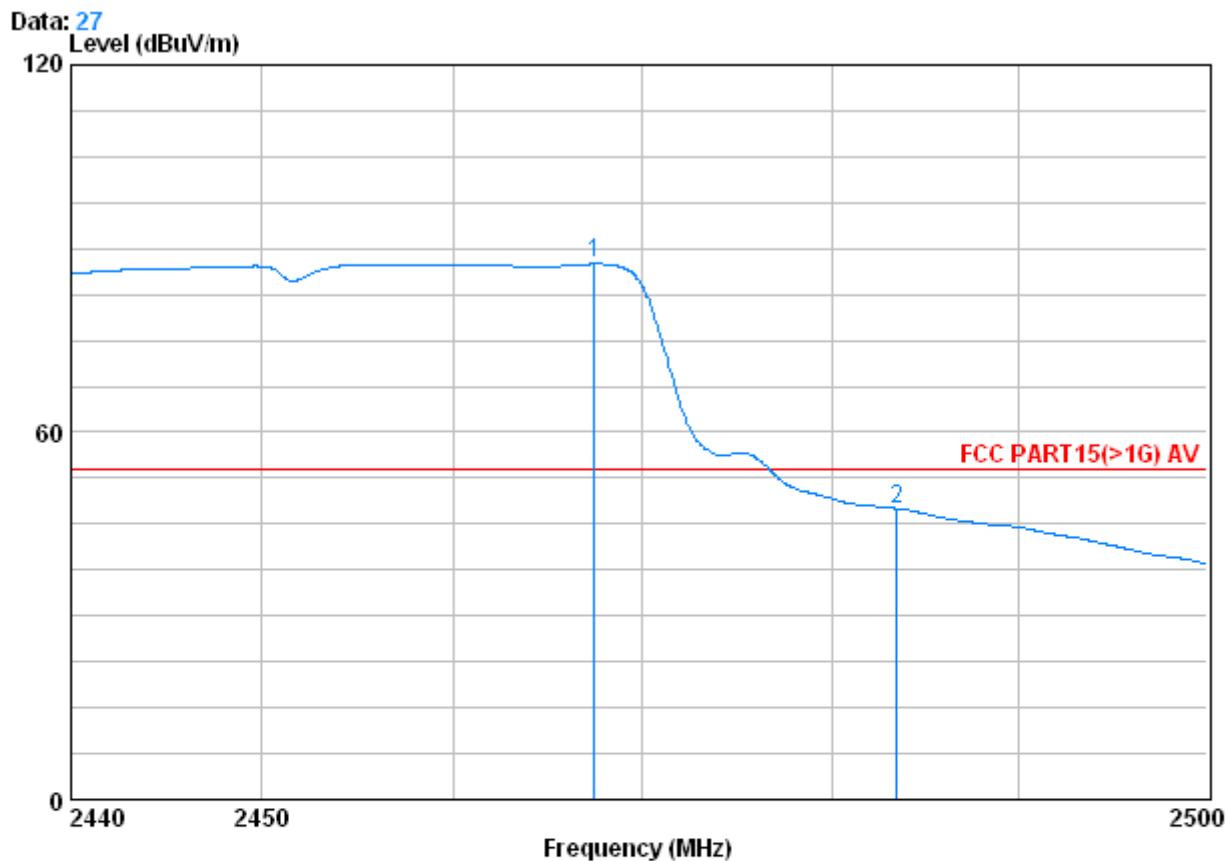
Condition : FCC PART15(>1G) AV 3m VERTICAL

Job No. : 1327RF

Mode : 2452

Freq	Cable			Antenna	Preamp	Read	Limit	Over
	MHz	dB	dB/m	Factor	Factor	Level		
1 X	2467.720	3.02	32.64	39.91	87.35	83.10	54.00	29.10
2	2485.000	3.03	32.67	39.92	42.03	37.81	54.00	-16.19

Worse case mode:	802.11n(HT40)	Test channel:	Highest	Remark:	Average	Horizontal
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Condition : FCC PART15(>1G) AV 3m HORIZONTAL

Job No. : 1327RF

Mode : 2452

Freq	Cable		Antenna	Preamp	Read	Limit	Over	
	Loss	Factor	Factor	Level	Level			
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2467.480	3.02	32.64	39.91	91.74	87.49	54.00	33.49
2	2483.500	3.03	32.67	39.92	51.76	47.54	54.00	-6.46

Note:

The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level = Receiver Reading + Antenna Factor + Cable Factor - Preamplifier Factor