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Report No.: SZEM120500236501
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FCC REPORT

Application No: SZEM1205002365ET (SGS SZ NO.: SZTY1205000402EM)
Applicant: I-WIT Digital Co., Limited
Product Name: KIDS PAD
Item No.(EUT): i43
FCC ID: O9A-I4320M
Standards: 47 CFR Part 15, Subpart C (2011)
Date of Receipt: 2012-05-09
Date of Test: 2012-05-24 to 2012-05-31
Date of Issue: 2012-07-20

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)	ANSI C63.10 2009	PASS
AC Power Line Conducted Emission	47 CFR Part 15, Subpart C Section 15.207	ANSI C63.10 2009	PASS
Conducted Peak Output Power	47 CFR Part 15, Subpart C Section 15.247 (b)(3)	ANSI C63.10 2009	PASS
6dB Occupied Bandwidth	47 CFR Part 15, Subpart C Section 15.247 (a)(2)	ANSI C63.10 2009	PASS
Power Spectral Density	47 CFR Part 15, Subpart C Section 15.247 (e)	ANSI C63.10 2009	PASS
Band-edge for RF Conducted Emissions	47 CFR Part 15, Subpart C Section 15.247(d)	ANSI C63.10 2009	PASS
RF Conducted Spurious Emissions	47 CFR Part 15, Subpart C Section 15.247(d)	ANSI C63.10 2009	PASS
Radiated Spurious Emissions	47 CFR Part 15, Subpart C Section 15.205/15.209	ANSI C63.10 2009	PASS
Band Edge (Radiated Emission)	47 CFR Part 15, Subpart C Section 15.205/15.209	ANSI C63.10 2009	PASS



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4 General Information

4.1 Client Information

Applicant:	I-WIT Digital Co., Limited
Address of Applicant:	RM303, BUILDING, NAN HAI ECOOL INNOVATION PARK, XINGHUA RD, SHEKOU, NANSHAN DISTRICT, SHENZHEN, P.R.C

4.2 General Description of EUT

Product Name:	KIDS PAD
Item No.:	i43
Request Age Grading:	3-9
Country of Origin:	China
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
Antenna Type:	Integral
Antenna Gain:	0dBi
Power Supply:	PC USB supply AC 120V 60Hz for PC 3.7V 1200 mAh Battery supply
Test Voltage:	PC USB supply AC 120V 60Hz for PC 3.7V 1200 mAh Battery supply



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	
1		2422MHz		4		2437MHz	
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:	25 °C
Humidity:	50 % RH
Atmospheric Pressure:	998 mbar
Test mode:	
Transmitting mode:	Keep the EUT in transmitting mode with all kind of modulation and all kind of data rate.

4.4 Description of Support Units

The EUT has been tested with associated equipment below.

Description	Manufacturer	Model No.
PC	DELL	DCSM
LCD-displaying	DELL	SP2208WFPt
KEYBOARD	DELL	SK-8115
MOUSE	Lenovo	MO28UOL
PC	IBM	8172
LCD-displaying	Lenovo	L1711pC
KEYBOARD	IBM	SK-8115
MOUSE	Lenovo	MO28UOA
Coder	HengTong ELECTRON	HT4000
Printer	Canon	BJC-1000SP

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)**
The 3m Semi-anechoic chamber of SGS-CSTC Standards Technical Services Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 4620C-1.

4.7 Deviation from Standards

None.

4.8 Abnormalities from Standard Conditions

None.

4.9 Other Information Requested by the Customer

None.



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**4.10 Test Instruments List**

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	2013-06-10
2	EMI Test Receiver	Rohde & Schwarz	ESIB26	SEL0023	2013-05-17
3	EMI Test software	AUDIX	E3	SEL0050	N/A
4	Coaxial cable	SGS	N/A	SEL0028	2013-05-29
5	BiConiLog Antenna (26-3000MHz)	ETS-LINDGREN	3142C	SEL0015	2012-10-29
6	Double-ridged horn (1-18GHz)	ETS-LINDGREN	3117	SEL0006	2012-10-29
7	Horn Antenna (18-26GHz)	ETS-LINDGREN	3160	SEL0076	2012-10-29
8	Pre-amplifier (0.1-1300MHz)	Agilent Technologies	8447D	SEL0053	2013-05-17
9	Pre-Amplifier (0.1-26.5GHz)	Compliance Directions Systems Inc.	PAP-0126	SEL0168	2012-10-26
11	Band filter	Amindeon	82346	SEL0094	2013-05-17
12	Active Loop Antenna	Beijing Daze	ZN30900A	SEL0097	2012-10-28

Conducted Emission					
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Due date (yyyy-mm-dd)
1	Shielding Room	ZhongYu Electron	GB-88	SEL0042	2013-06-10
2	LISN	Rohde & Schwarz	ENV216	SEL0152	2012-10-23
3	LISN	ETS-LINDGREN	3816/2	SEL0021	2013-05-17
4	EMI Test Receiver	Rohde & Schwarz	ESCI	SEL0022	2013-05-17
5	Coaxial Cable	SGS	N/A	SEL0024	2013-05-29

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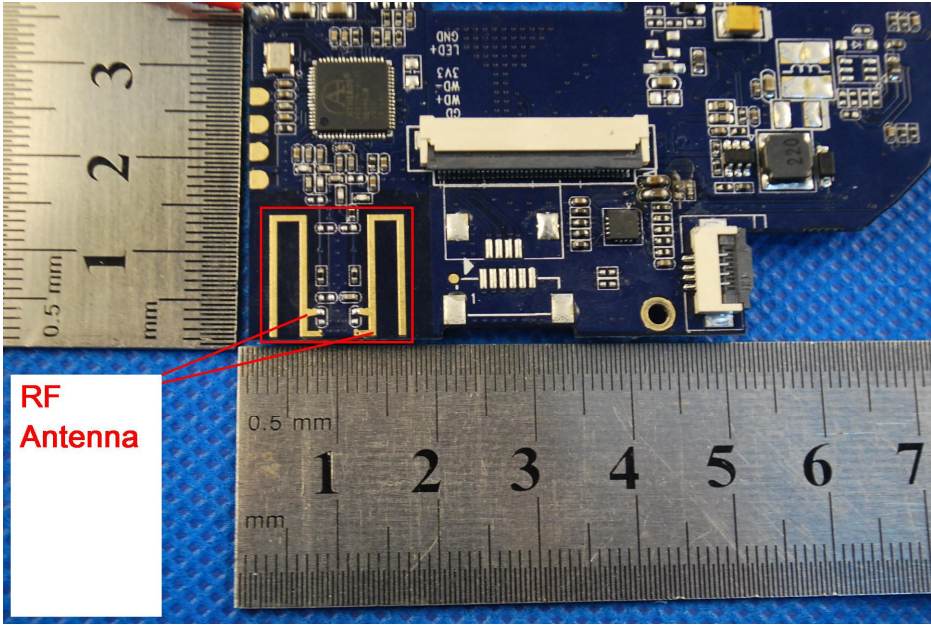


RF conducted					
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Due date (yyyy-mm-dd)
1	Spectrum Analyzer	Rohde & Schwarz	FSP 30	SEL0154	2012-10-23
2	Coaxial cable	SGS	N/A	SEL0028	2013-05-29

General used equipment					
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Due date (yyyy-mm-dd)
1	Humidity/ Temperature Indicator	Shanghai	ZJ1-2B	SEL0102 to SEL0103	2012-10-27
2	Humidity/ Temperature Indicator	Shanghai	ZJ1-2B	SEL0101	2012-10-27
3	Barometer	ChangChun	DYM3	SEL0088	2013-05-17

5 Test results and Measurement Data

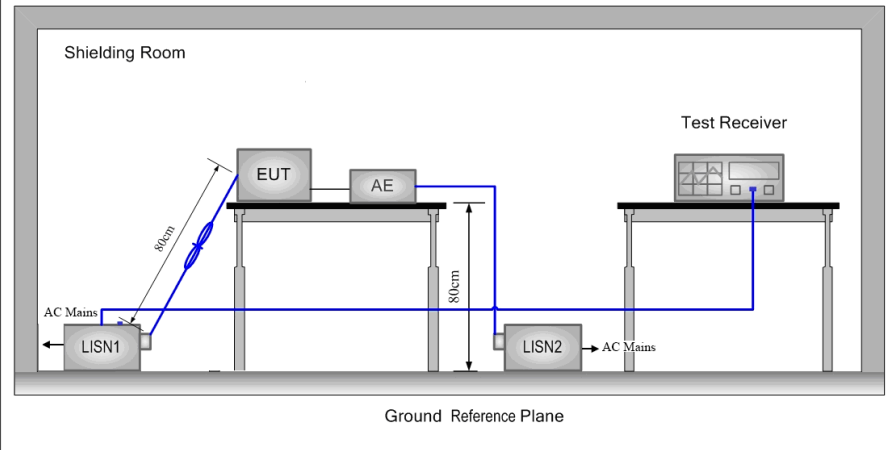
5.1 Antenna Requirement

Standard requirement:	FCC Part15 C Section 15.203 /247(c)
<p>15.203 requirement:</p> <p>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.</p> <p>15.247(b) (4) requirement:</p> <p>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.</p>	
EUT Antenna:	
<p>The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is 0dBi.</p>	
	



5.2 Conducted Emissions

Test Requirement:	FCC Part15 C Section 15.207		
Test Method:	ANSI C63.10: 2009		
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 50Ω/50μH + 5Ω 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

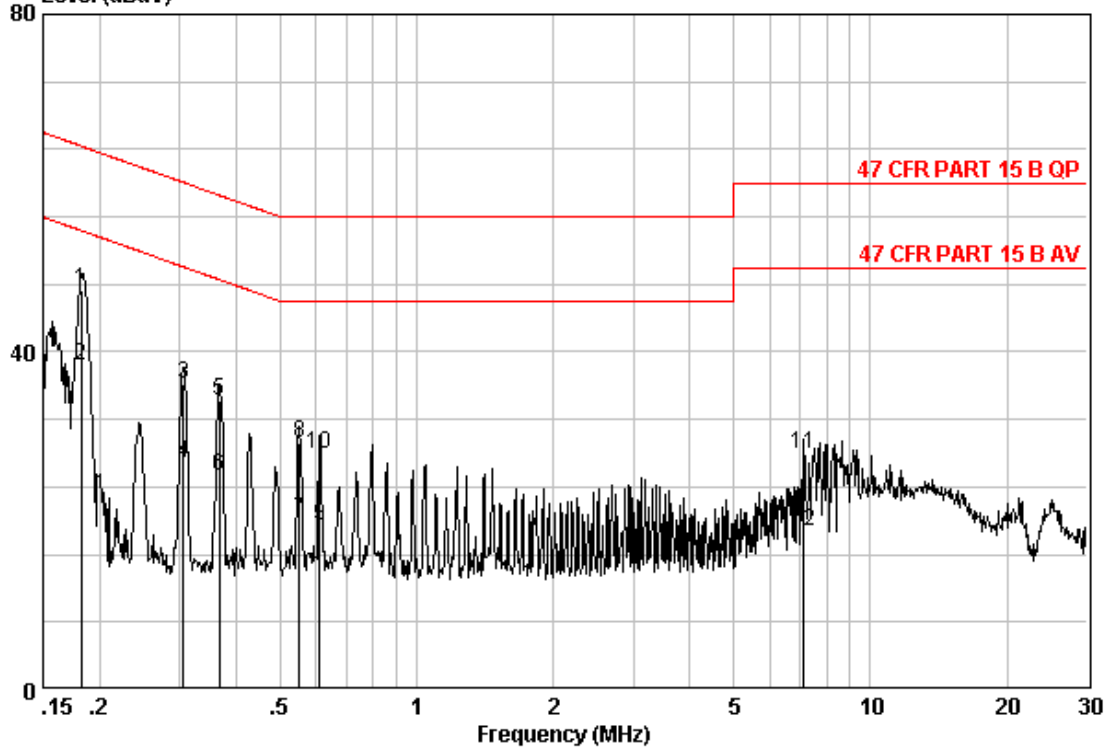
An initial pre-scan was performed on the live and neutral lines with peak detector.

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



Live Line:

Data: 304
Level (dBuV)



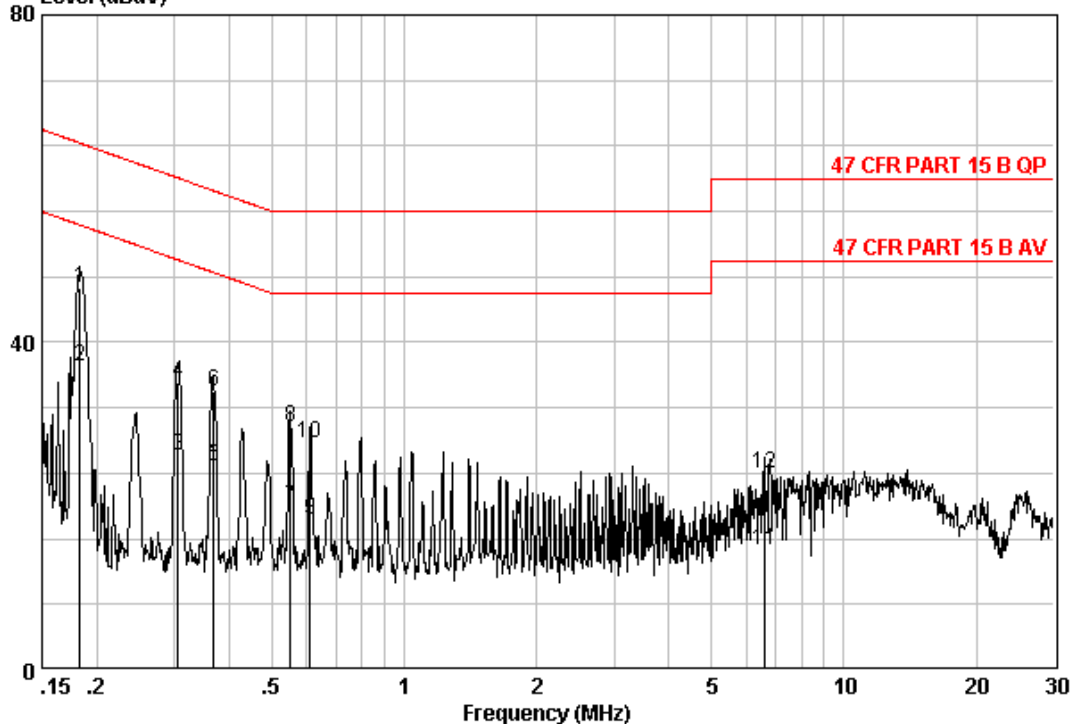
Site : Shielding Room
Condition : FCC PART15B QP CE-20101216 LINE
Job No. : 2365ET
Mode : Transmitting

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.18200	0.04	9.60	37.62	47.26	64.39	-17.13	QP
2 @	0.18200	0.04	9.60	28.62	38.26	54.39	-16.13	Average
3	0.30600	0.05	9.60	26.54	36.19	60.08	-23.89	QP
4	0.30600	0.05	9.60	17.10	26.75	50.08	-23.33	Average
5	0.36700	0.05	9.60	24.49	34.14	58.57	-24.43	QP
6	0.36700	0.05	9.60	15.65	25.31	48.57	-23.26	Average
7	0.55000	0.06	9.63	10.45	20.13	46.00	-25.87	Average
8	0.55000	0.06	9.63	19.55	29.23	56.00	-26.77	QP
9	0.61000	0.06	9.66	9.70	19.42	46.00	-26.58	Average
10	0.61000	0.06	9.66	18.26	27.98	56.00	-28.02	QP
11	7.100	0.20	9.90	17.70	27.79	60.00	-32.21	QP
12	7.100	0.20	9.90	8.60	18.69	50.00	-31.31	Average

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Neutral Line:
Data: 303
Level (dBuV)



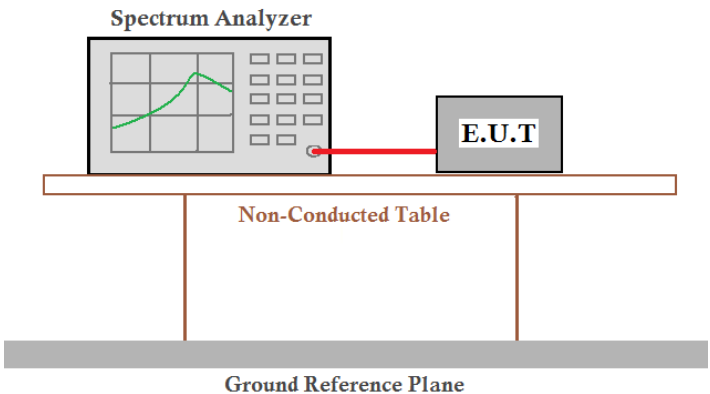
Site : Shielding Room
Condition : FCC PART15B QP CE-20101216 NEUTRAL
Job No. : 2365ET
Mode : Transmitting

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.18300	0.04	9.60	36.94	46.58	64.35	-17.76	QP
2	0.18300	0.04	9.60	27.40	37.04	54.35	-17.31	Average
3	0.30600	0.05	9.60	16.60	26.25	50.08	-23.83	Average
4	0.30600	0.05	9.60	25.40	35.05	60.08	-25.03	QP
5	0.36800	0.05	9.60	15.20	24.85	48.55	-23.69	Average
6	0.36800	0.05	9.60	24.42	34.08	58.55	-24.47	QP
7	0.55000	0.06	9.63	10.10	19.79	46.00	-26.21	Average
8	0.55000	0.06	9.63	19.96	29.65	56.00	-26.35	QP
9	0.61000	0.06	9.66	8.50	18.22	46.00	-27.78	Average
10	0.61000	0.06	9.66	17.87	27.59	56.00	-28.41	QP
11	6.600	0.19	9.80	4.60	14.59	50.00	-35.41	Average
12	6.600	0.19	9.80	13.92	23.91	60.00	-36.09	QP

Notes:

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

5.3 Conducted Peak Output Power

Test Requirement:	FCC Part15 C Section 15.247 (b)(3)
Test Method:	ANSI C63.10 2009
Test Setup:	 <p><i>Remark:</i> Offset the High-Frequency cable loss 1.5dB in the spectrum analyzer.</p>
Test Instruments:	Refer to section 4.10 for details
Exploratory Test Mode:	Transmitting mode
Final Test Mode:	Through Pre-scan, find the 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) ;135Mbps of rate is the worst case of 802.11n(HT40).
Limit:	30dBm
Test Results:	Pass



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Pre-scan under all rate at lowest channel 1								
Mode	802.11b							
Data Rate	1Mbps	2Mbps	5.5Mbps	11Mbps				
Power (dBm)	15.5	15.72	15.85	15.92				
Mode	802.11g							
Data Rate	6Mbps	9Mbps	12Mbps	18Mbps	24Mbps	36Mbps	48Mbps	54Mbps
Power (dBm)	9.86	10	10.08	10.1	10.18	10.25	10.36	10.41
Mode	802.11n(HT20)							
Data Rate	6.5Mbps	13Mbps	19.5Mbps	26Mbps	39Mbps	52Mbps	58.5Mbps	65Mbps
Power (dBm)	10.11	10.27	10.35	10.46	10.58	10.64	10.75	10.87
Mode	802.11n(HT40)							
Data Rate	13.5Mbps	27Mbps	40.5Mbps	54Mbps	81Mbps	108Mbps	121.5Mbps	135Mbps
Power (dBm)	9.95	10	10.04	10.11	10.18	10.24	10.39	10.49

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); 135Mbps of rate is the worst case of 802.11n(HT40).

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**Measurement Data**

802.11b mode			
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result
Lowest	15.92	30.00	Pass
Middle	15.56	30.00	Pass
Highest	15.26	30.00	Pass
802.11g mode			
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result
Lowest	10.41	30.00	Pass
Middle	10.63	30.00	Pass
Highest	10.46	30.00	Pass
802.11n(HT20)mode			
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result
Lowest	10.87	30.00	Pass
Middle	10.81	30.00	Pass
Highest	10.70	30.00	Pass
802.11n(HT40)mode			
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result
Lowest	10.49	30.00	Pass
Middle	10.53	30.00	Pass
Highest	10.35	30.00	Pass

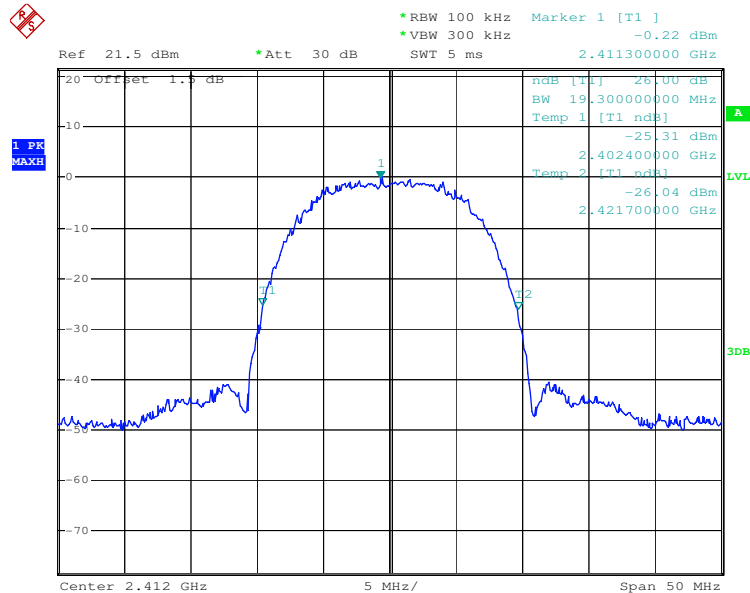


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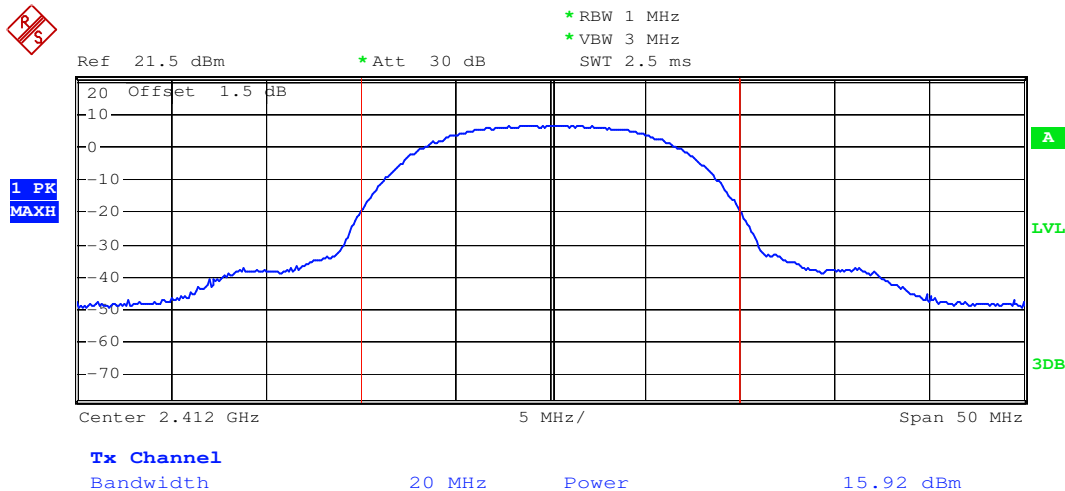


Test plot as follows:

Test mode:	802.11b	Test channel:	Lowest	-26 bandwidth
------------	---------	---------------	--------	---------------



Test mode:	802.11b	Test channel:	Lowest
------------	---------	---------------	--------



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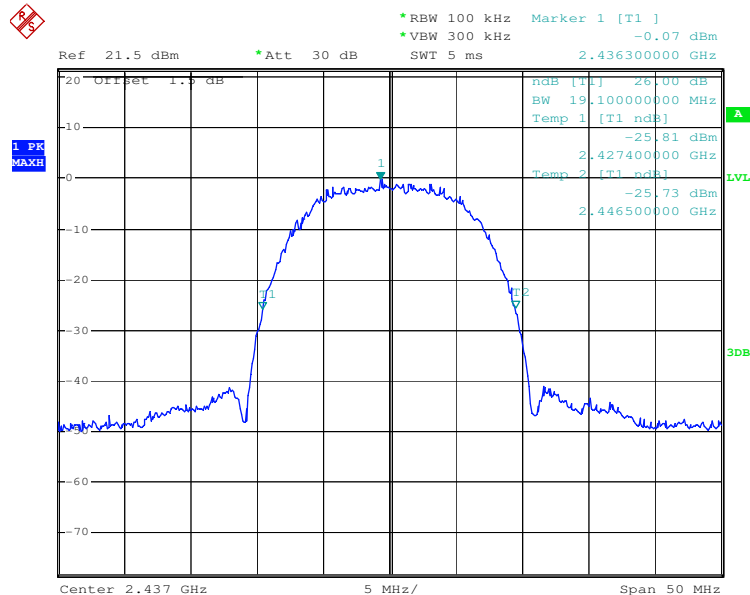


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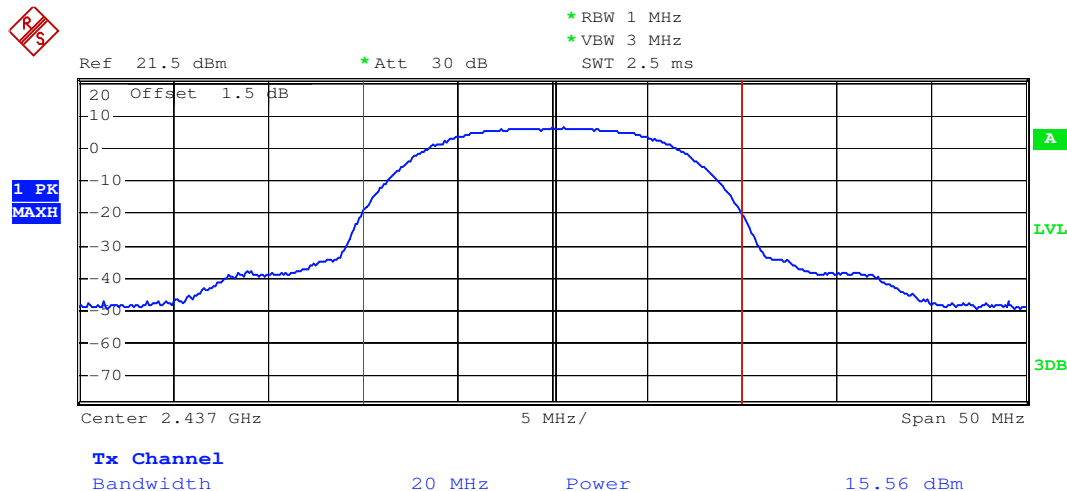
Report No.: SZEM120500236501

Page: 19 of 102

Test mode:	802.11b	Test channel:	Middle	-26 bandwidth
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Test mode:	802.11b	Test channel:	Middle
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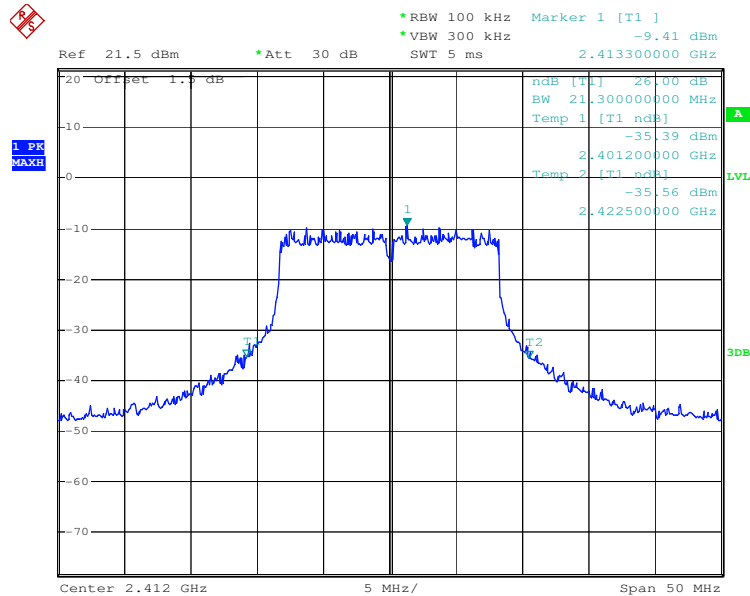


SGS-CSTC Standards Technical Services Ltd.

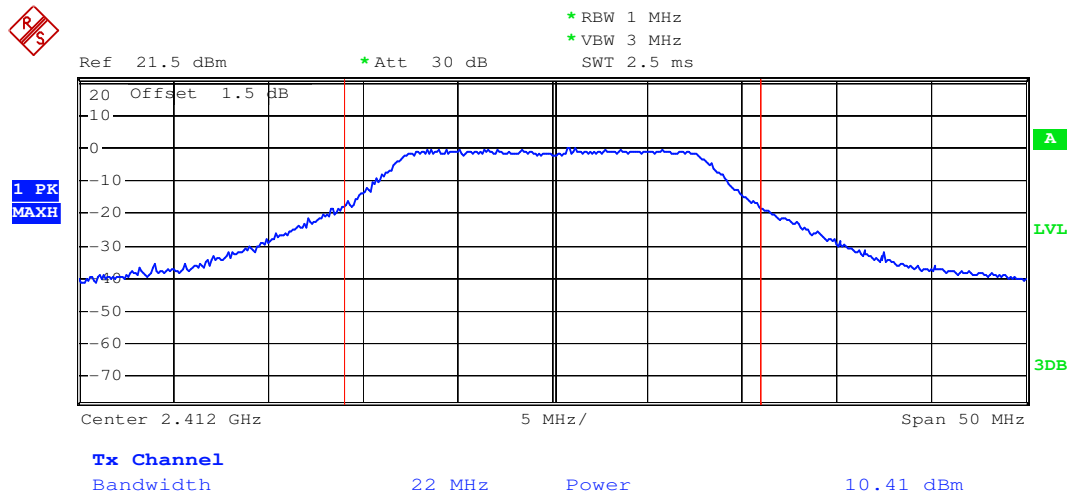
Report No.: SZEM120500236501

Page: 21 of 102

Test mode:	802.11g	Test channel:	Lowest	-26 bandwidth
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Test mode:	802.11g	Test channel:	Lowest
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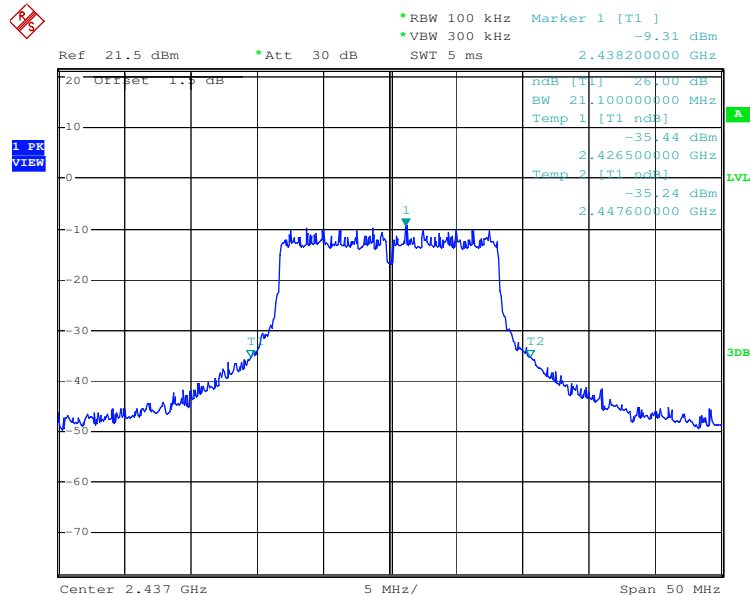


SGS-CSTC Standards Technical Services Ltd.

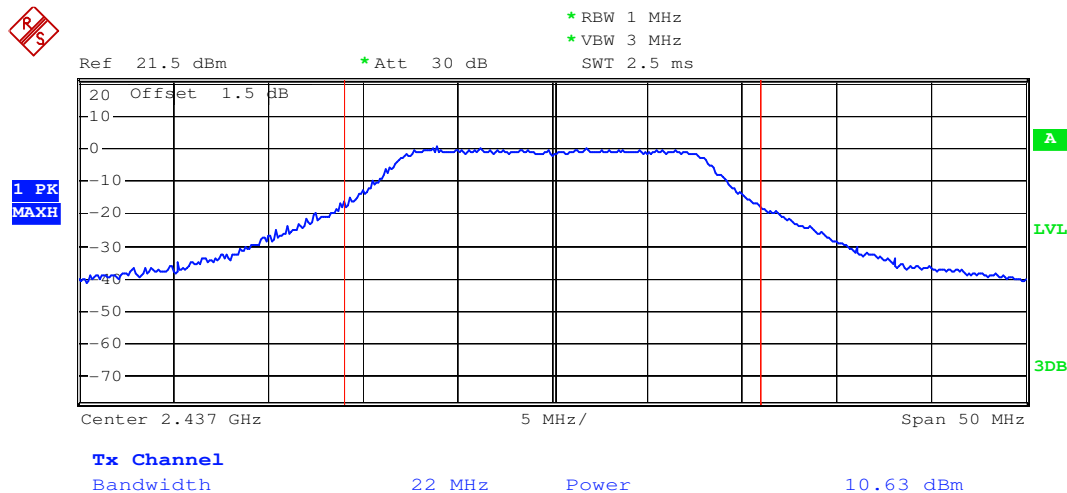
Report No.: SZEM120500236501

Page: 22 of 102

Test mode:	802.11g	Test channel:	Middle	-26 bandwidth
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Test mode:	802.11g	Test channel:	Middle
------------	---------	---------------	--------



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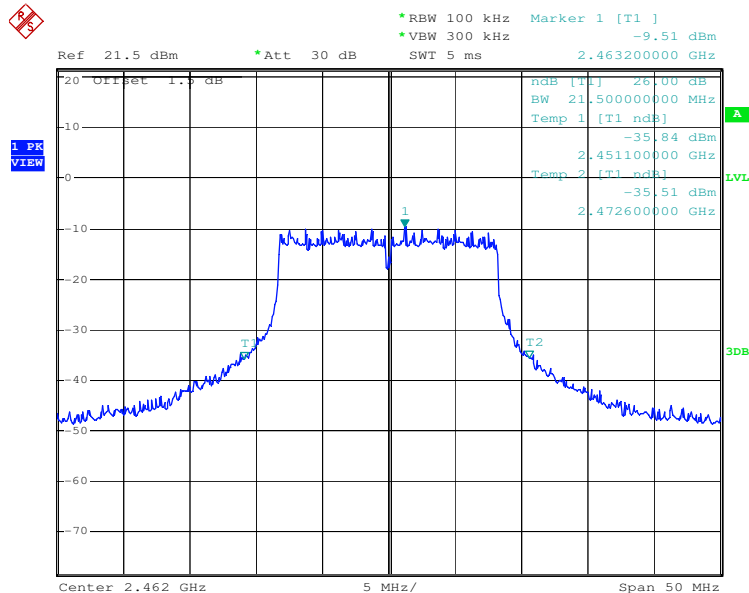


SGS-CSTC Standards Technical Services Ltd.

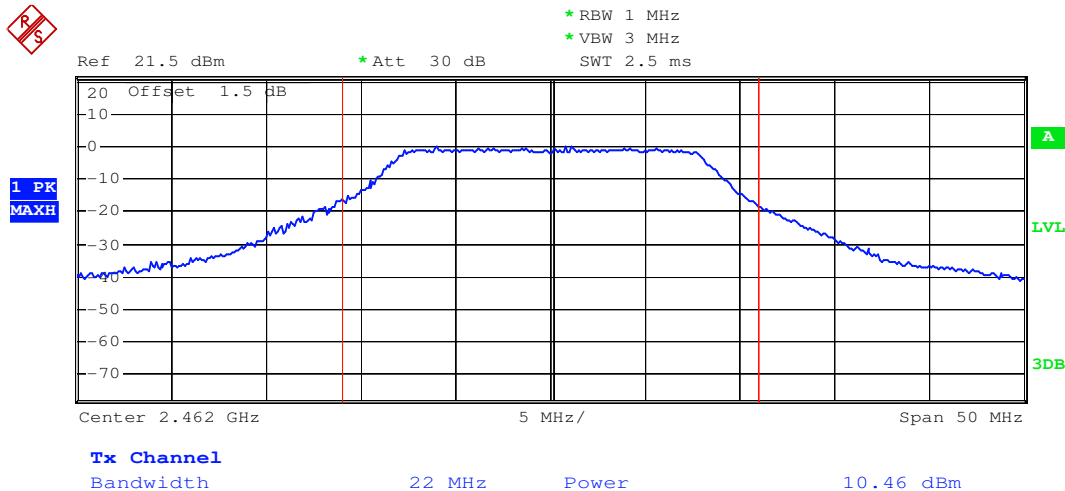
Report No.: SZEM120500236501

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Test mode:	802.11g	Test channel:	Highest	-26 bandwidth
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Test mode:	802.11g	Test channel:	Highest
------------	---------	---------------	---------



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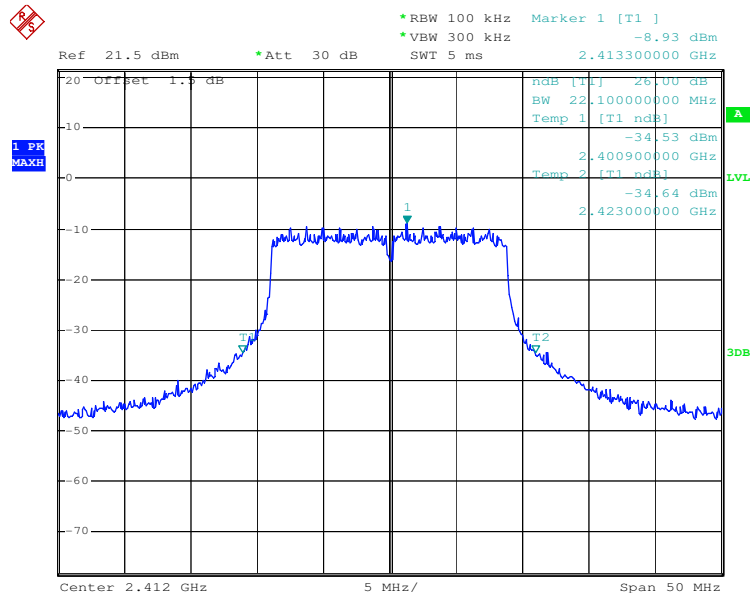


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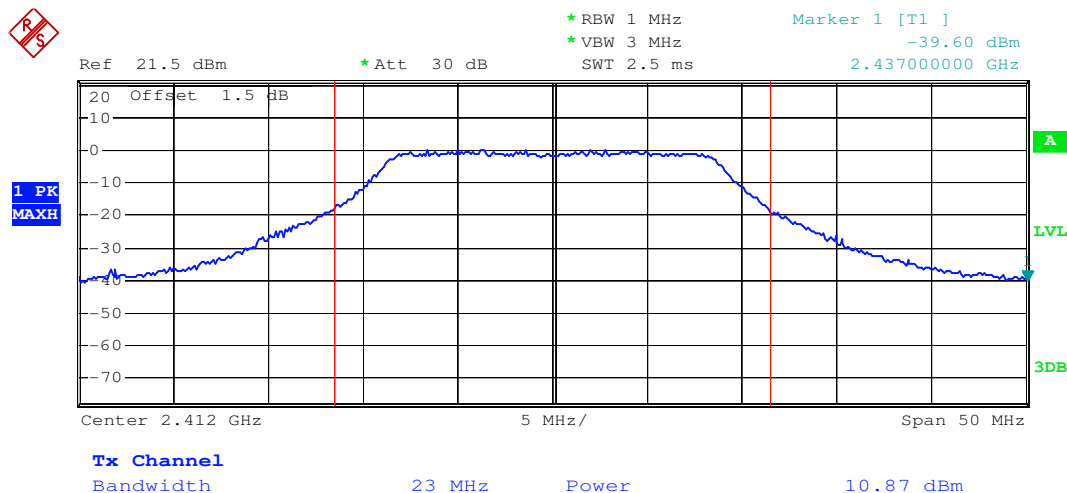
Report No.: SZEM120500236501

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Test mode:	802.11n(HT20)	Test channel:	Lowest	-26 bandwidth
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Test mode:	802.11n(HT20)	Test channel:	Lowest
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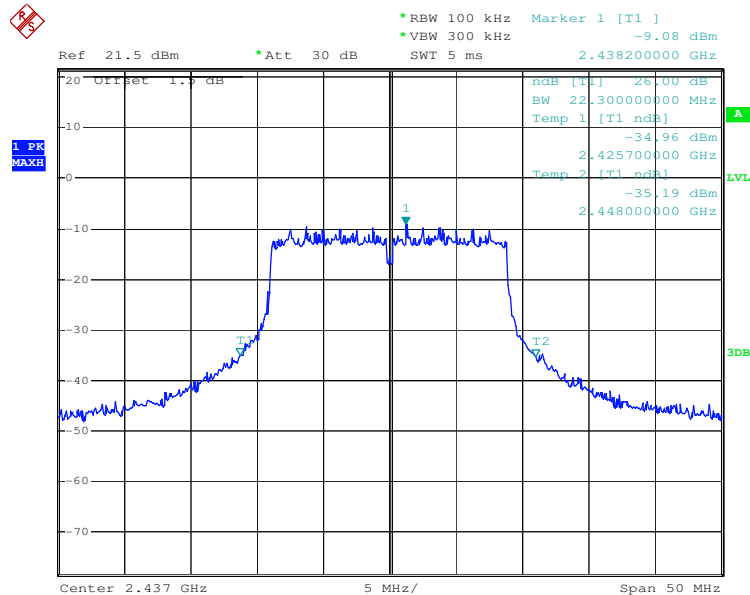


SGS-CSTC Standards Technical Services Ltd.

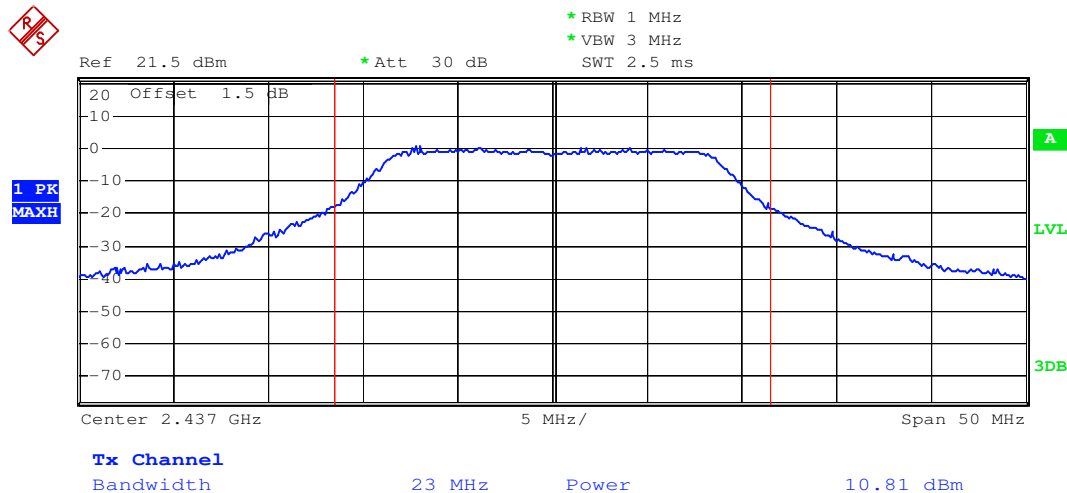
Report No.: SZEM120500236501

Page: 25 of 102

Test mode:	802.11n(HT20)	Test channel:	Middle	-26 bandwidth
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Test mode:	802.11n(HT20)	Test channel:	Middle
------------	---------------	---------------	--------



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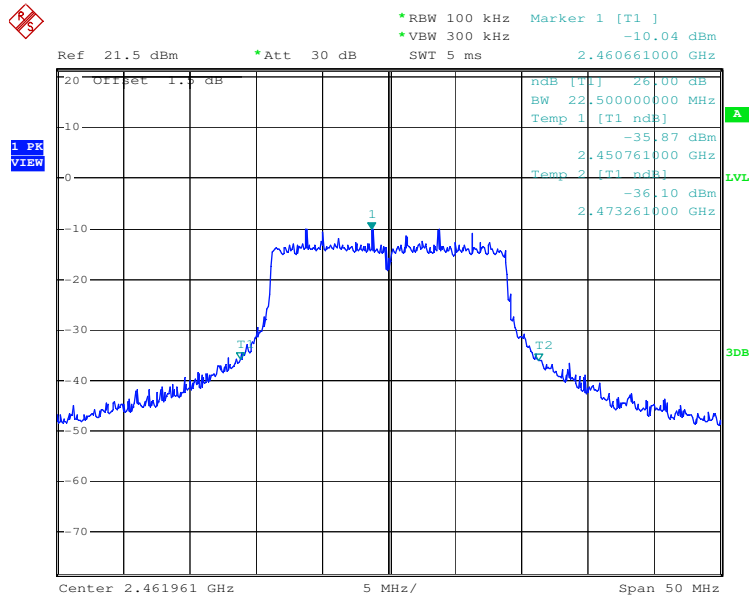


SGS-CSTC Standards Technical Services Ltd.

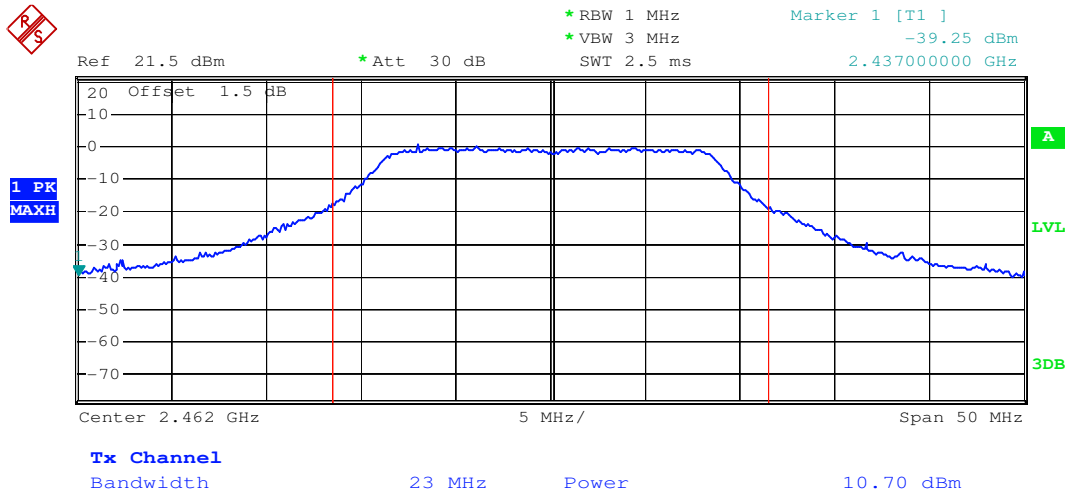
Report No.: SZEM120500236501

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Test mode:	802.11n(HT20)	Test channel:	Highest	-26 bandwidth
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Test mode:	802.11n(HT20)	Test channel:	Highest
------------	---------------	---------------	---------



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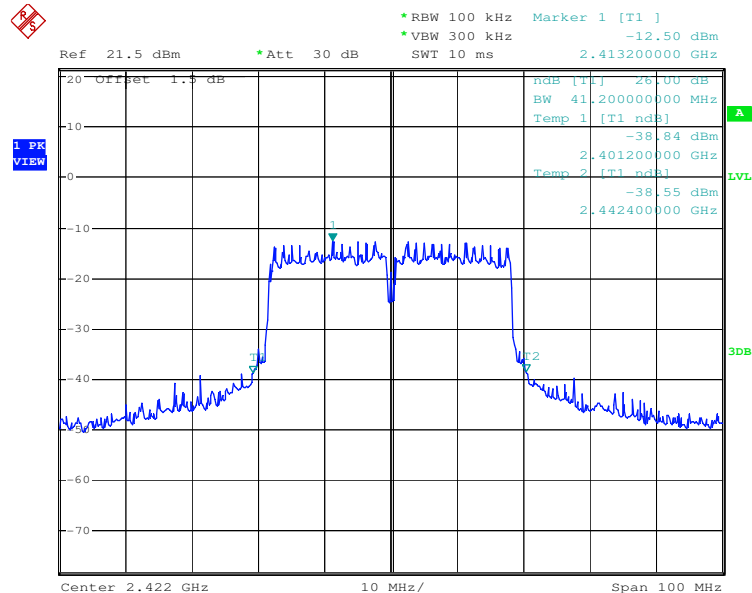


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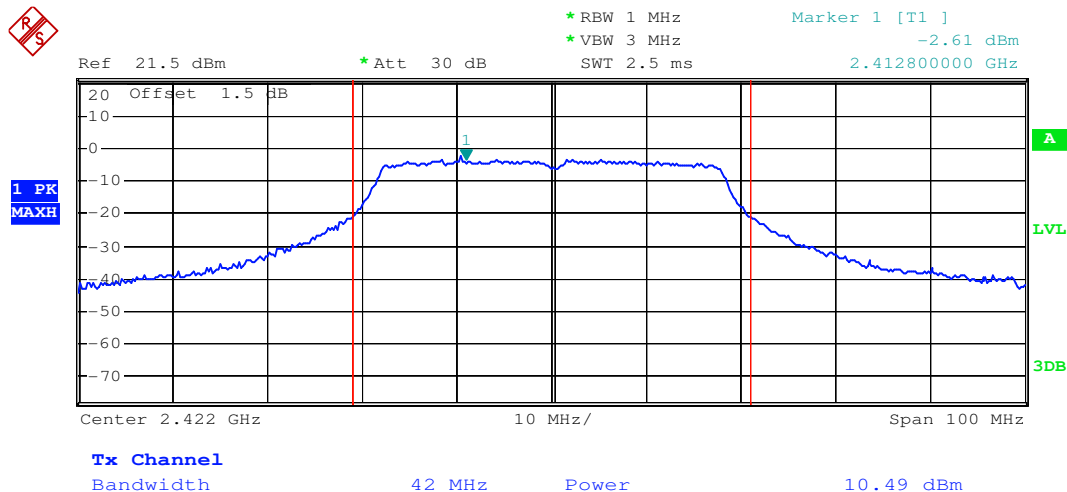
Report No.: SZEM120500236501

Page: 27 of 102

Test mode:	802.11n(HT40)	Test channel:	Lowest	-26 bandwidth
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Test mode:	802.11n(HT40)	Test channel:	Lowest
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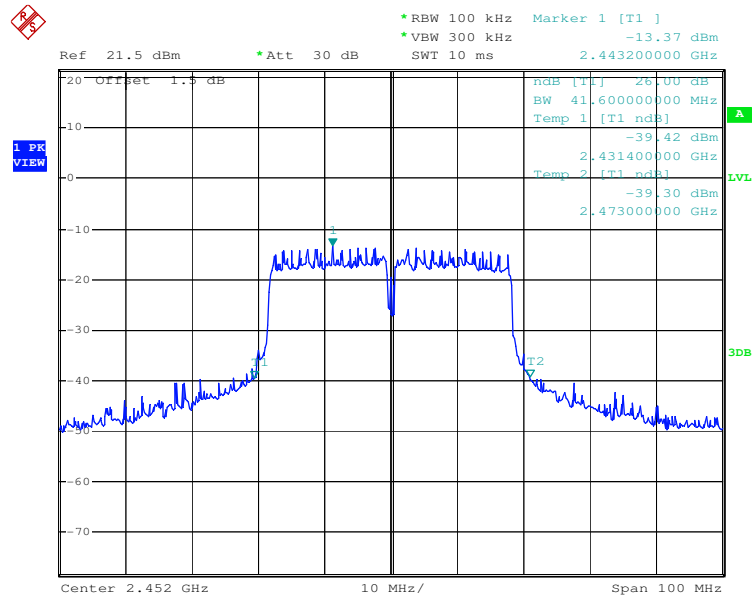


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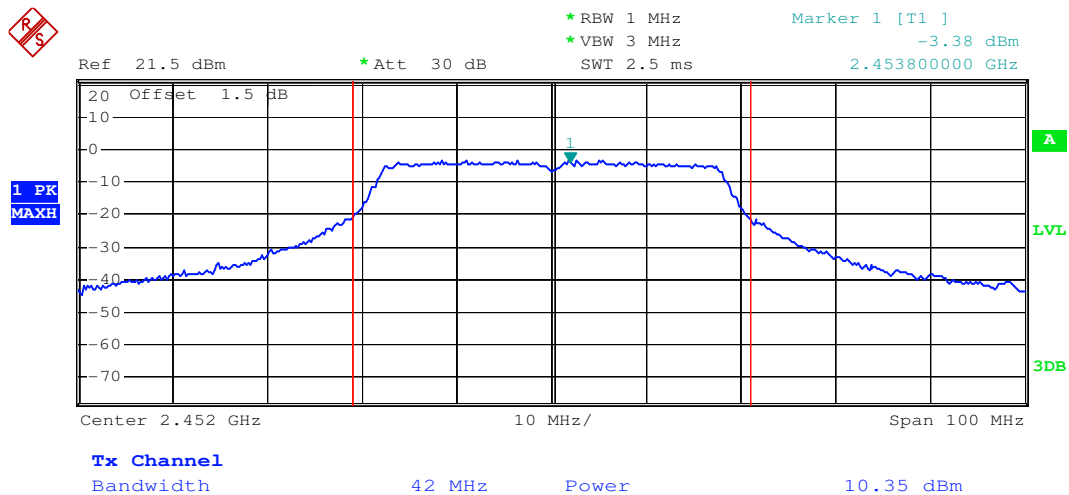
Report No.: SZEM120500236501

Page: 29 of 102

Test mode:	802.11n(HT40)	Test channel:	Highest	-26 bandwidth
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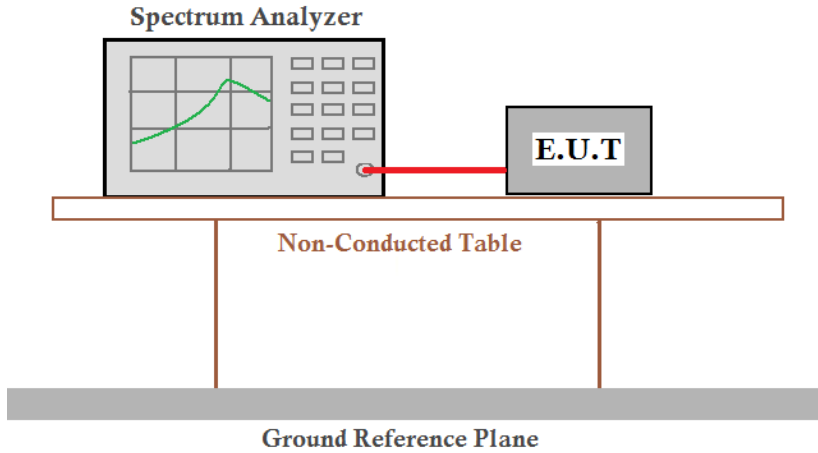


Test mode:	802.11n(HT40)	Test channel:	Highest
------------	---------------	---------------	---------



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5.4 6dB Occupy Bandwidth

Test Requirement:	FCC Part15 C Section 15.247 (a)(2)
Test Method:	ANSI C63.10 2009
Test Setup:	 <p>The diagram illustrates the test setup. A Spectrum Analyzer is connected to an E.U.T (Equipment Under Test) via a red cable. Both the Spectrum Analyzer and the E.U.T are placed on a Non-Conducted Table. The table is supported by two vertical legs. Below the table is a Ground Reference Plane.</p>
Instruments Used:	Refer to section 4.10 for details
Exploratory Test Mode:	Transmitting mode
Final Test Mode:	Through Pre-scan, find the 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);135Mbps of rate is the worst case of 802.11n(HT40).
Limit:	≥ 500 kHz
Test Results:	Pass

**Measurement Data**

802.11b mode			
Test channel	6dB Occupy Bandwidth (MHz)	Limit (kHz)	Result
Lowest	12.10	≥500	Pass
Middle	11.70	≥500	Pass
Highest	11.80	≥500	Pass
802.11g mode			
Test channel	6dB Occupy Bandwidth (MHz)	Limit (kHz)	Result
Lowest	16.80	≥500	Pass
Middle	16.70	≥500	Pass
Highest	16.70	≥500	Pass
802.11n(HT20) mode			
Test channel	6dB Occupy Bandwidth (MHz)	Limit (kHz)	Result
Lowest	18.00	≥500	Pass
Middle	18.00	≥500	Pass
Highest	17.80	≥500	Pass
802.11n(HT40)mode			
Test channel	6dB Occupy Bandwidth (MHz)	Limit (kHz)	Result
Lowest	36.80	≥500	Pass
Middle	36.80	≥500	Pass
Highest	36.80	≥500	Pass



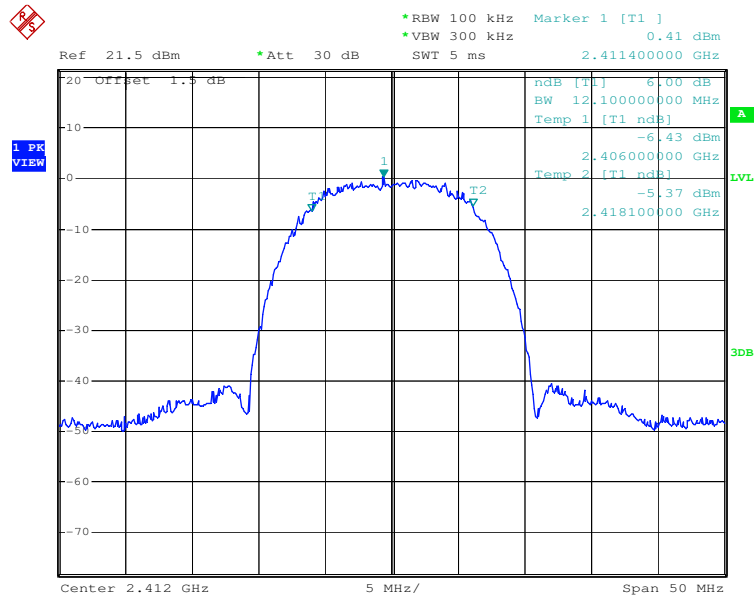
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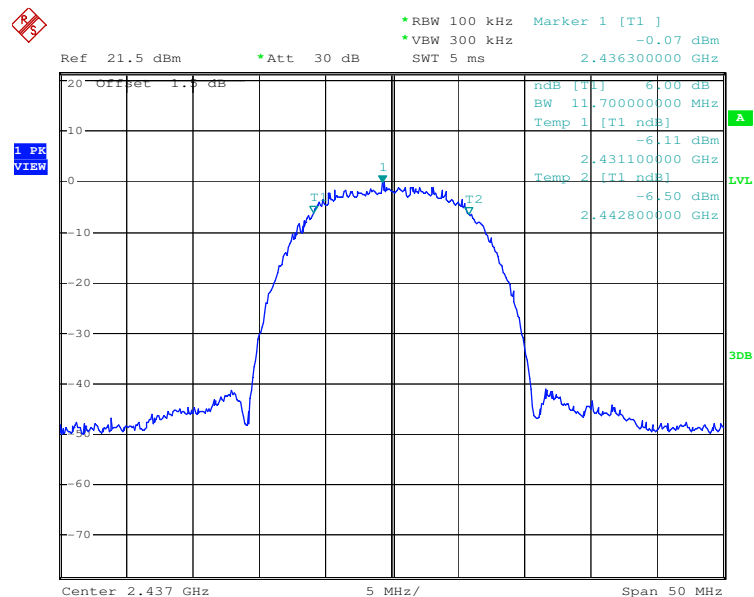
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Test plot as follows:

Test mode:	802.11b	Test channel:	Lowest
------------	---------	---------------	--------



Test mode:	802.11b	Test channel:	Middle
------------	---------	---------------	--------



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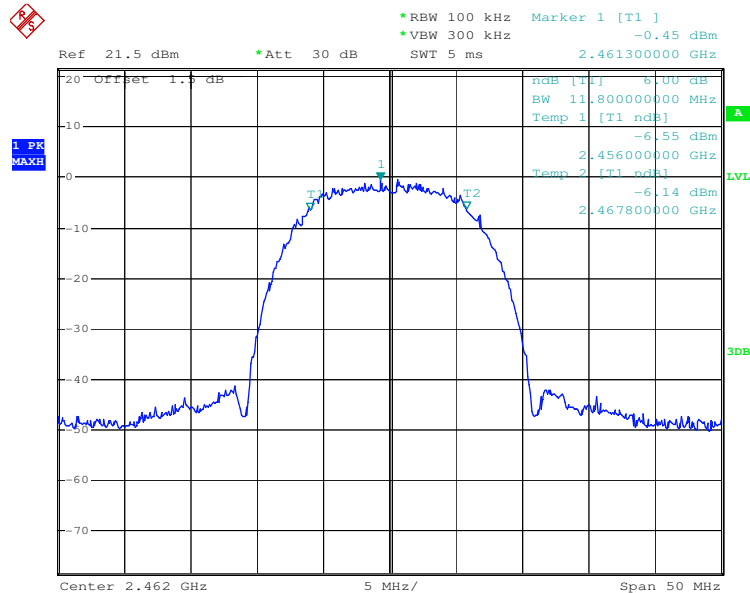


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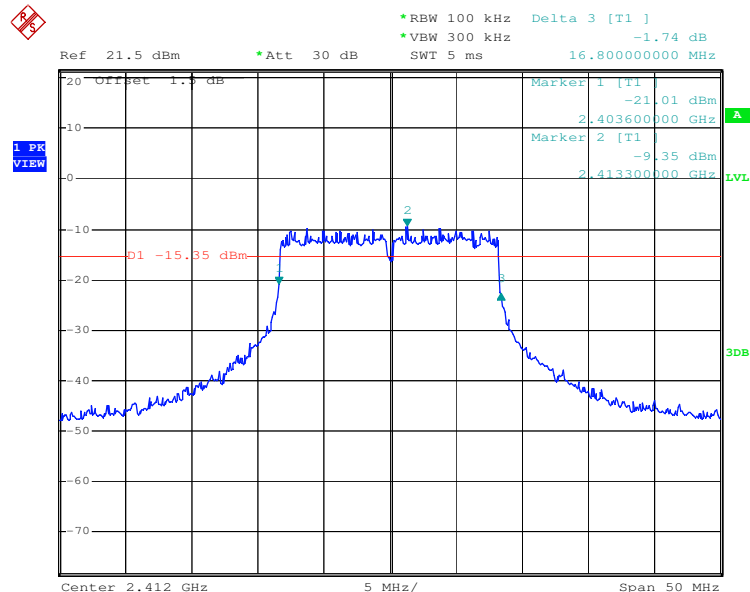
Report No.: SZEM120500236501

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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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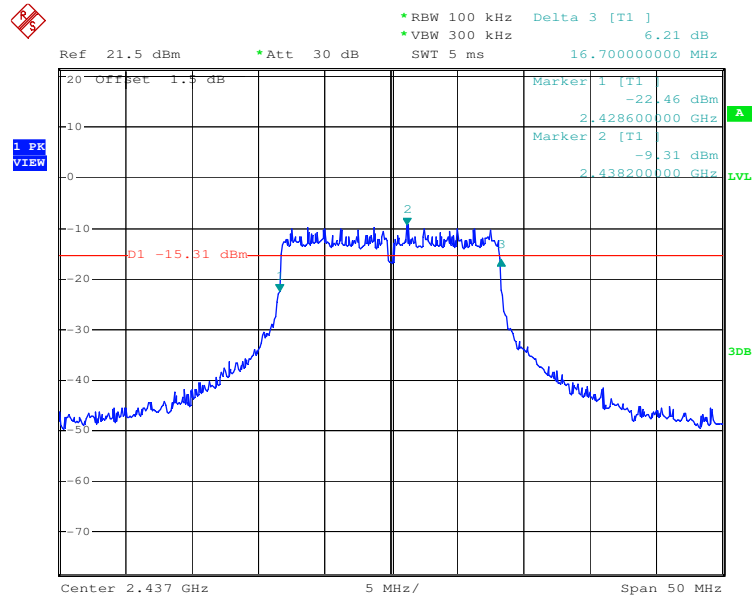


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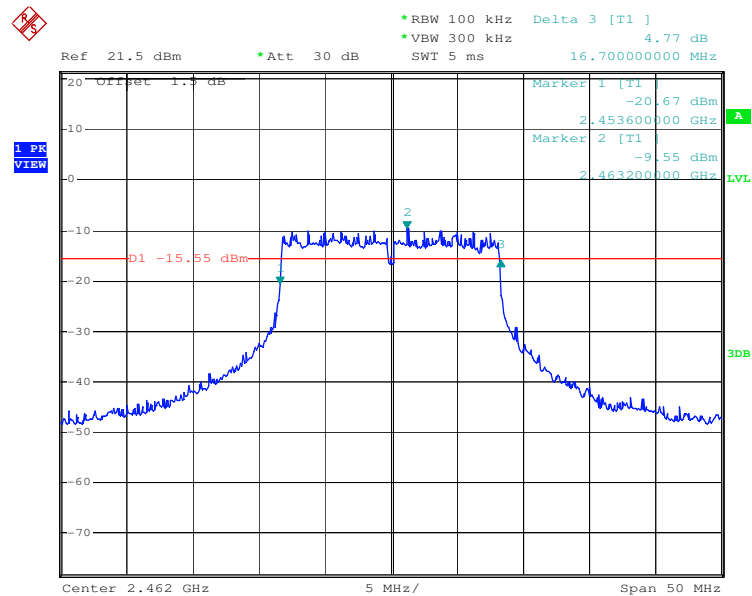
Report No.: SZEM120500236501

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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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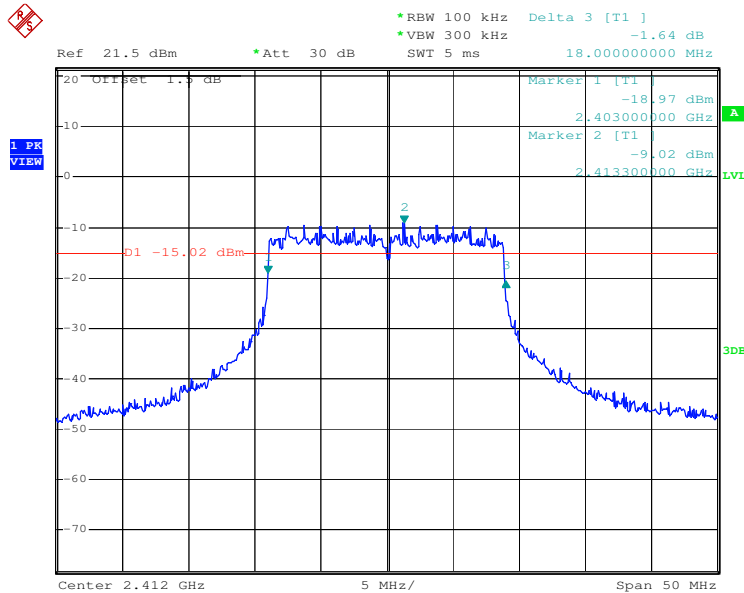


SGS-CSTC Standards Technical Services Ltd.

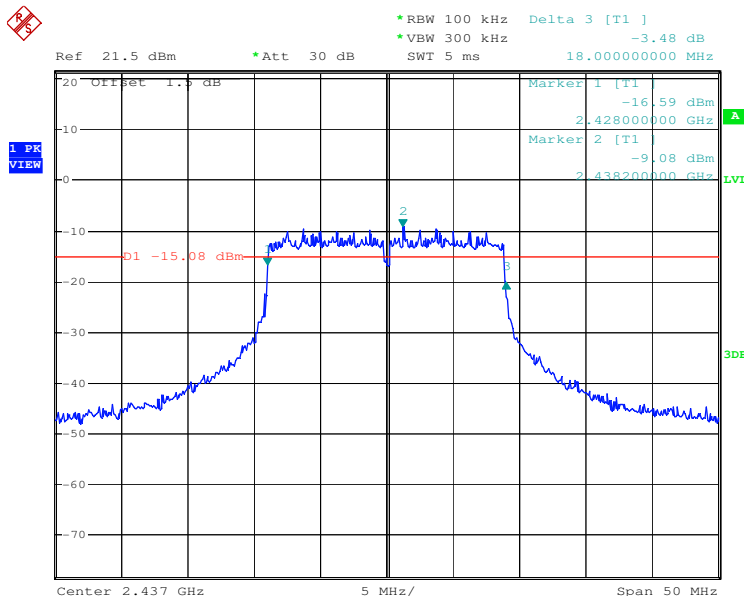
Report No.: SZEM120500236501

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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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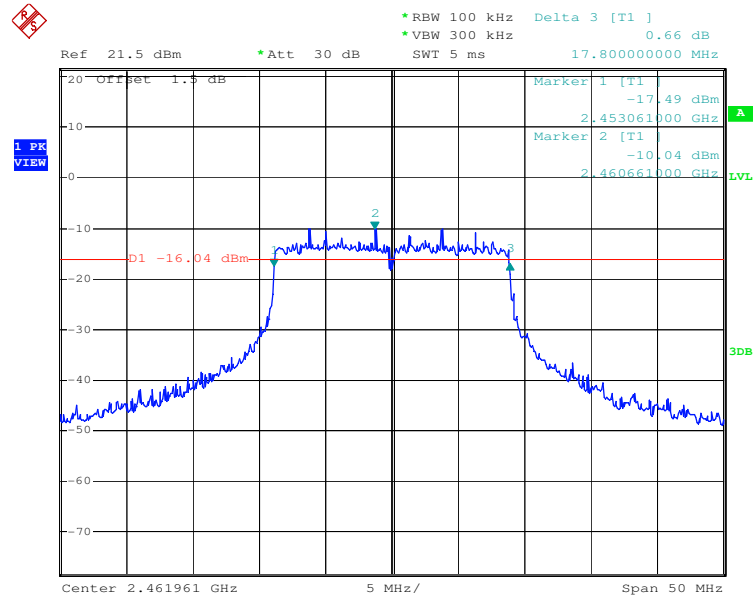


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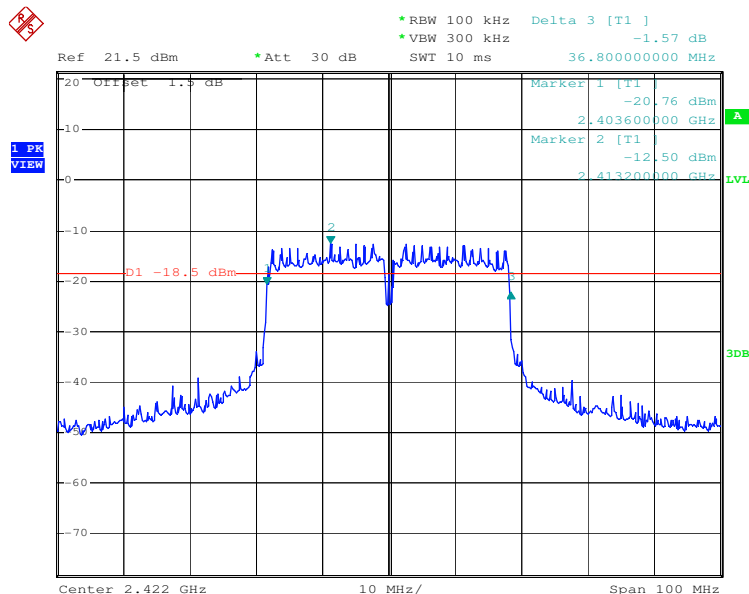
Report No.: SZEM120500236501

Page: 36 of 102

Test mode:	802.11n(HT20)	Test channel:	Highest
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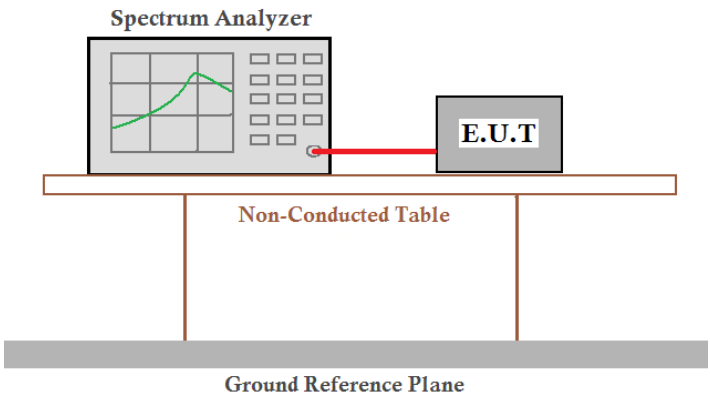


Test mode:	802.11n(HT40)	Test channel:	Lowest
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5.5 Power Spectral Density

Test Requirement:	FCC Part15 C Section 15.247 (e)
Test Method:	ANSI C63.10 2009
Test Setup:	 <p><i>Remark:</i> Offset the High-Frequency cable loss 1.5dB in the spectrum analyzer.</p>
Test Instruments:	Refer to section 4.10 for details
Exploratory Test Mode:	Transmitting mode
Final Test Mode:	Through Pre-scan, find the 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); 135Mbps of rate is the worst case of 802.11n(HT40).
Limit:	≤8.00dBm
Test Results:	Pass

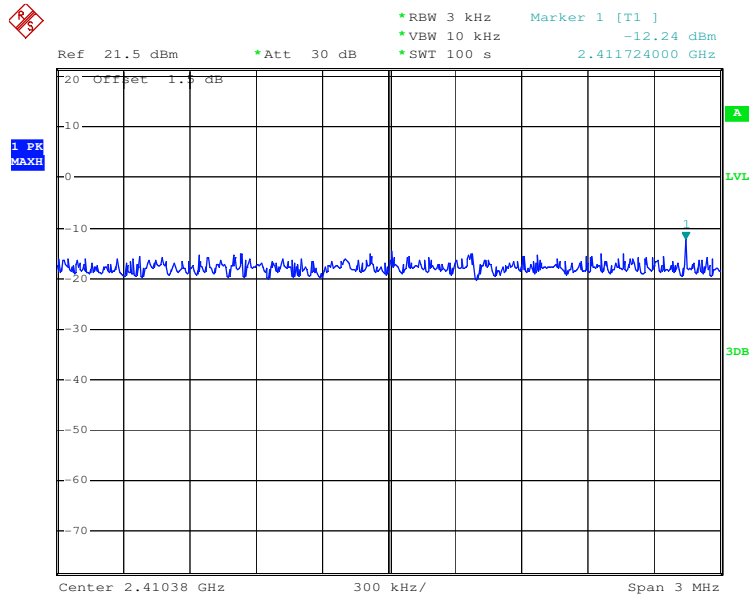
**Measurement Data**

802.11b mode			
Test channel	Power Spectral Density (dBm)	Limit (dBm)	Result
Lowest	-12.24	≤8.00	Pass
Middle	-11.48	≤8.00	Pass
Highest	-11.61	≤8.00	Pass
802.11g mode			
Test channel	Power Spectral Density (dBm)	Limit (dBm)	Result
Lowest	-19.35	≤8.00	Pass
Middle	-19.10	≤8.00	Pass
Highest	-20.09	≤8.00	Pass
802.11n(HT20) mode			
Test channel	Power Spectral Density (dBm)	Limit (dBm)	Result
Lowest	-18.91	≤8.00	Pass
Middle	-19.34	≤8.00	Pass
Highest	-19.90	≤8.00	Pass
802.11n(HT40) mode			
Test channel	Power Spectral Density (dBm)	Limit (dBm)	Result
Lowest	-21.05	≤8.00	Pass
Middle	-20.30	≤8.00	Pass
Highest	-23.52	≤8.00	Pass

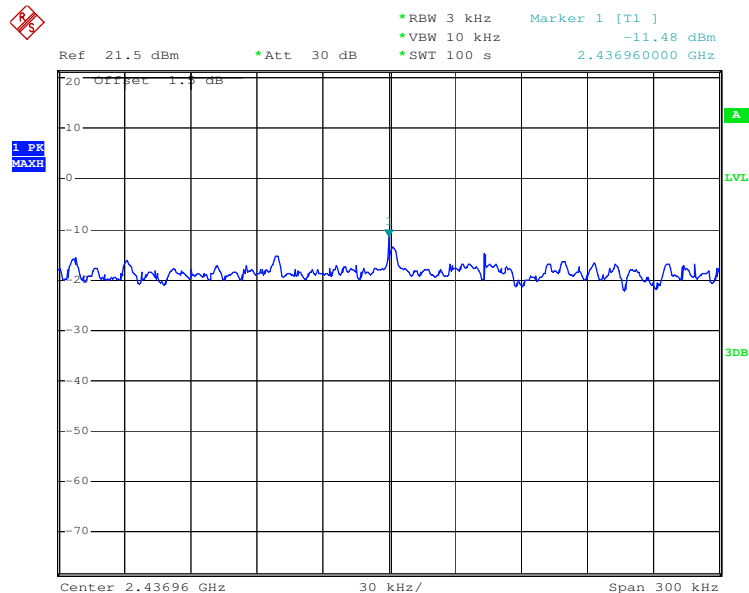


Test plot as follows:

Test mode:	802.11b	Test channel:	Lowest
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Test mode:	802.11b	Test channel:	Middle
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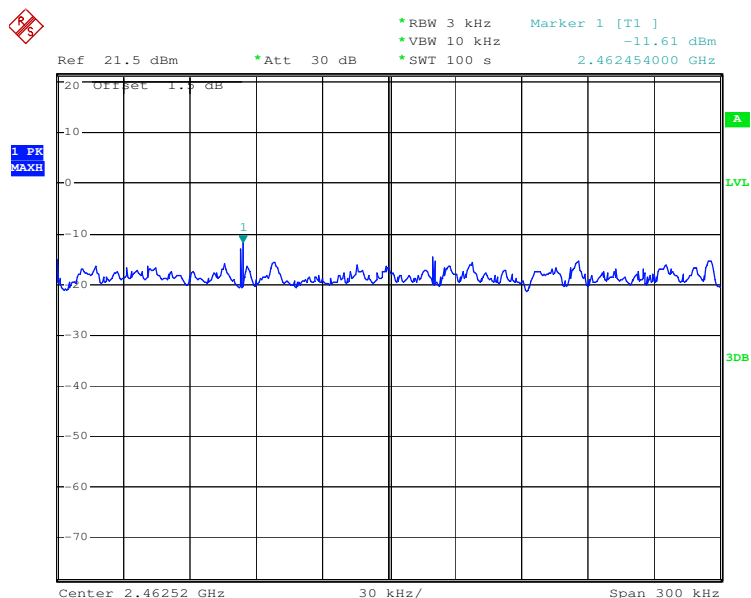


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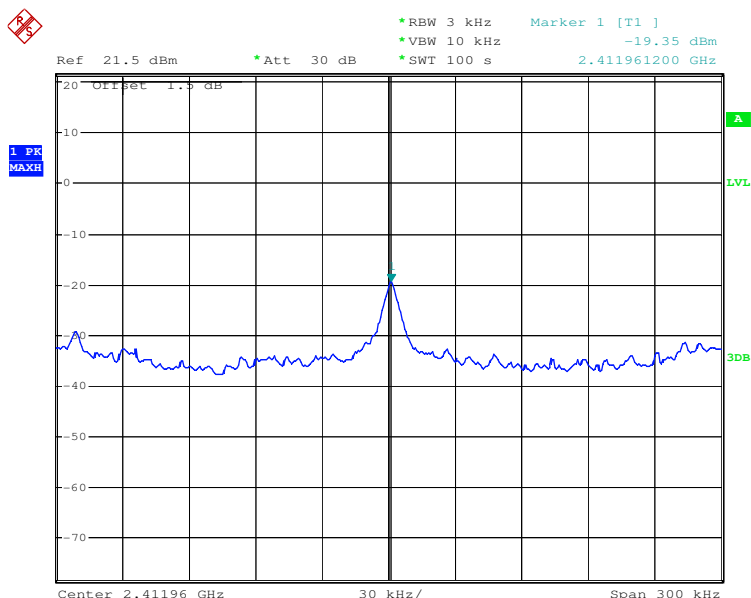
Report No.: SZEM120500236501

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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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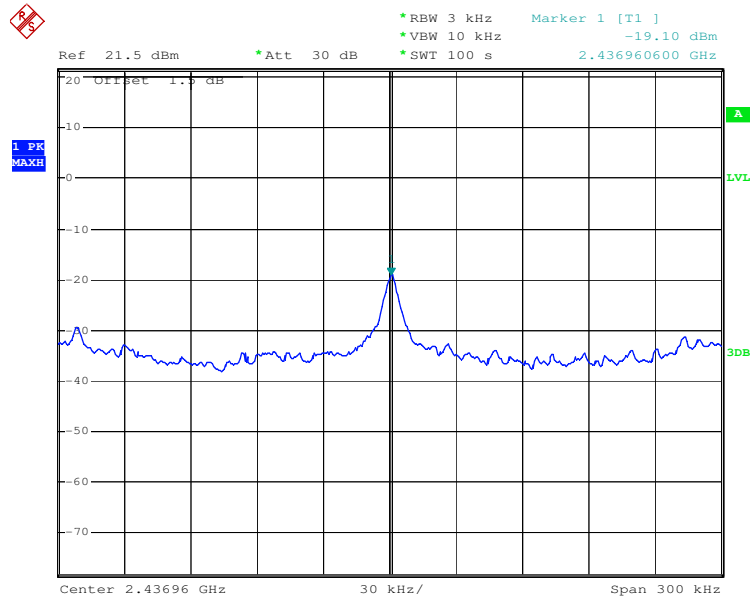


SGS-CSTC Standards Technical Services Ltd.

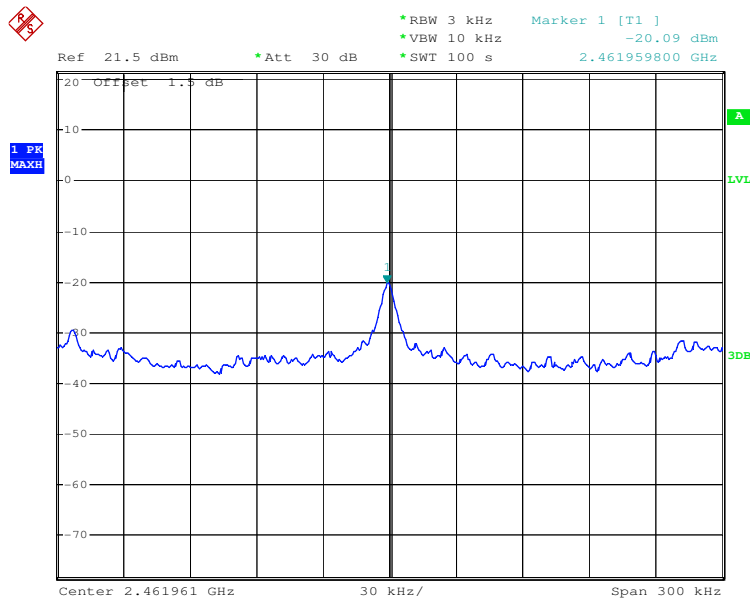
Report No.: SZEM120500236501

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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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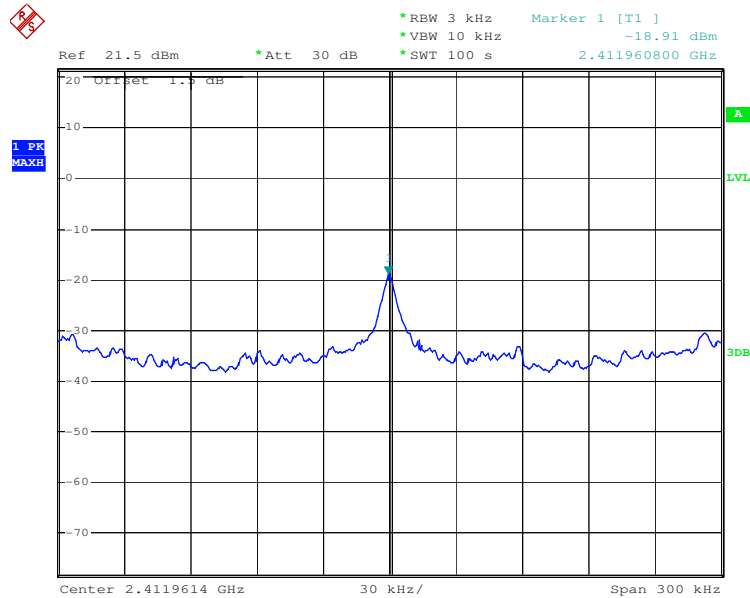


SGS-CSTC Standards Technical Services Ltd.

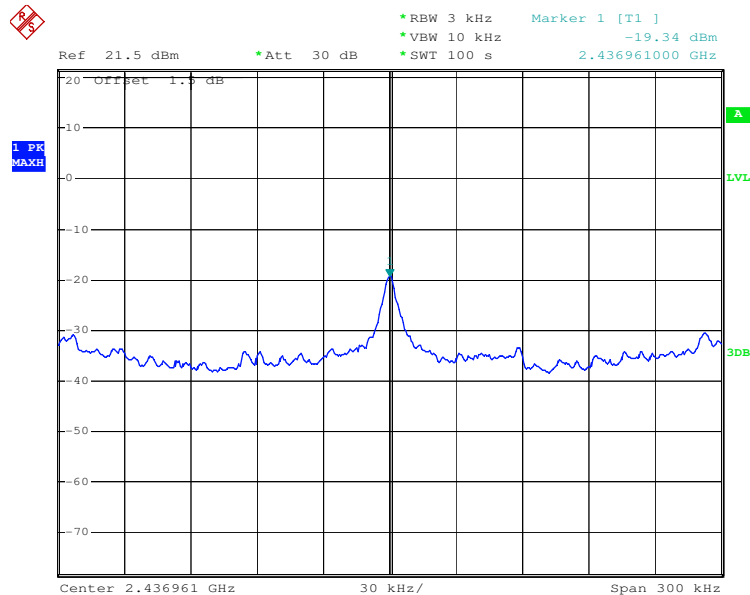
Report No.: SZEM120500236501

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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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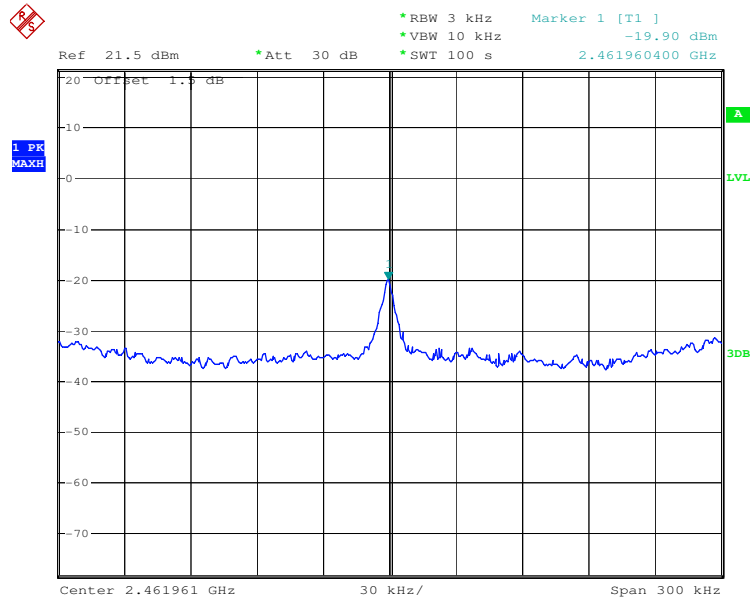


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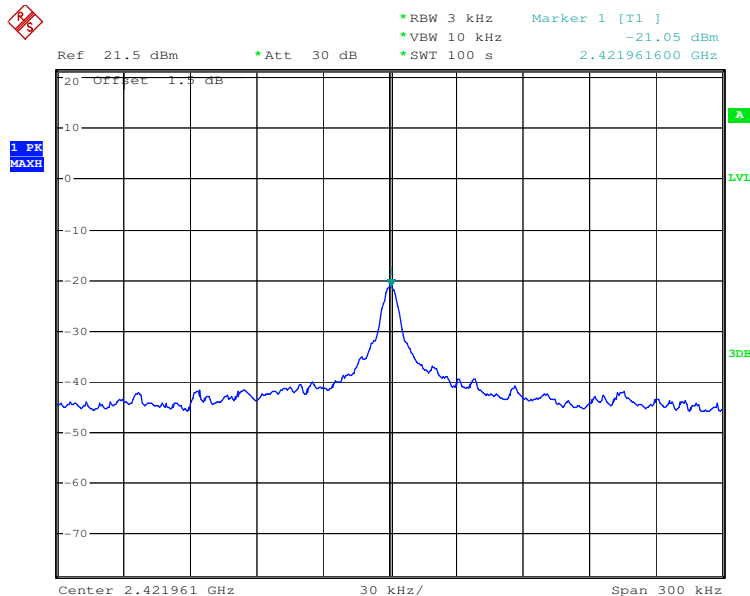
Report No.: SZEM120500236501

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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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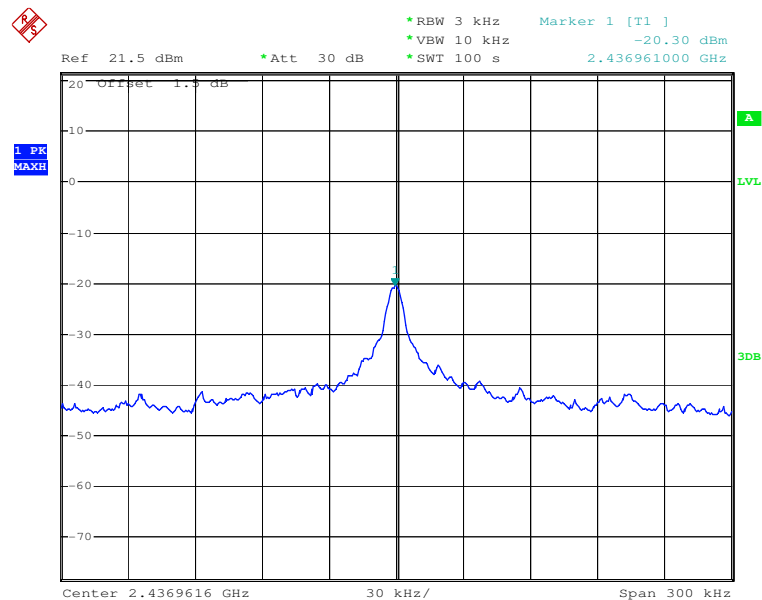


SGS-CSTC Standards Technical Services Ltd.

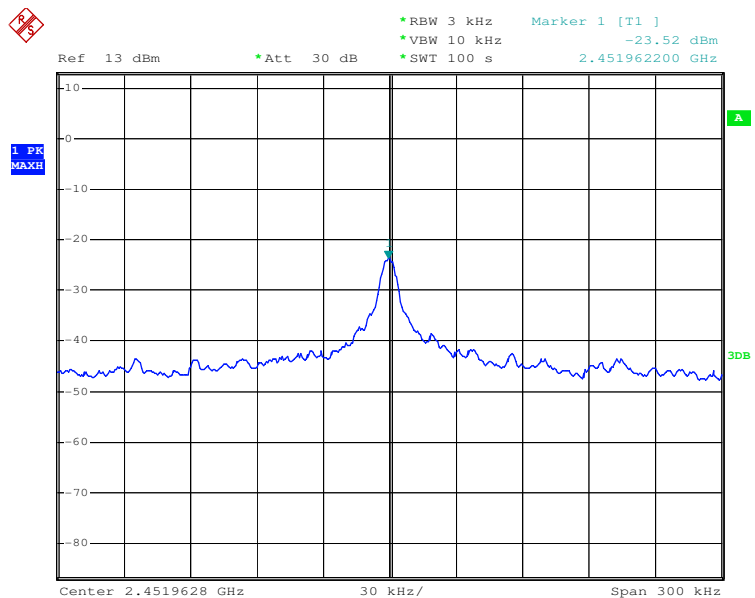
Report No.: SZEM120500236501

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Test mode:	802.11n(HT40)	Test channel:	Middle
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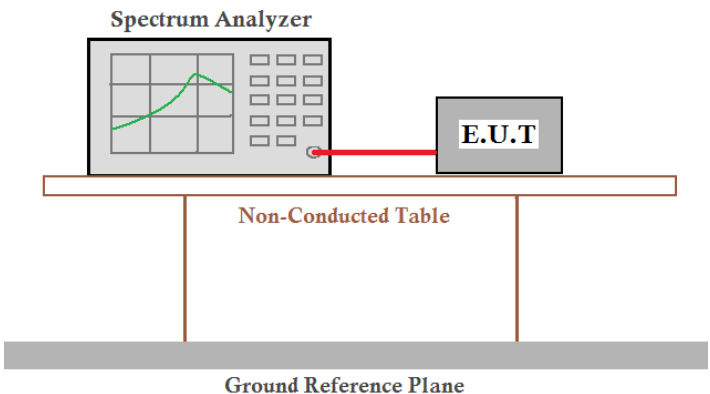


Test mode:	802.11n(HT40)	Test channel:	Highest
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5.6 Band-edge for RF Conducted Emissions

Test Requirement:	FCC Part15 C Section 15.247 (d)
Test Method:	ANSI C63.10 2009
Test Setup:	 <p><i>Remark:</i> Offset the High-Frequency cable loss 1.5dB in the spectrum analyzer.</p>
Exploratory Test Mode:	Transmitting mode
Final Test Mode:	Through Pre-scan, find the 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);135Mbps of rate is the worst case of 802.11n(HT40).
Limit:	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 band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.
Instruments Used:	Refer to section 4.10 for details
Test Results:	Pass



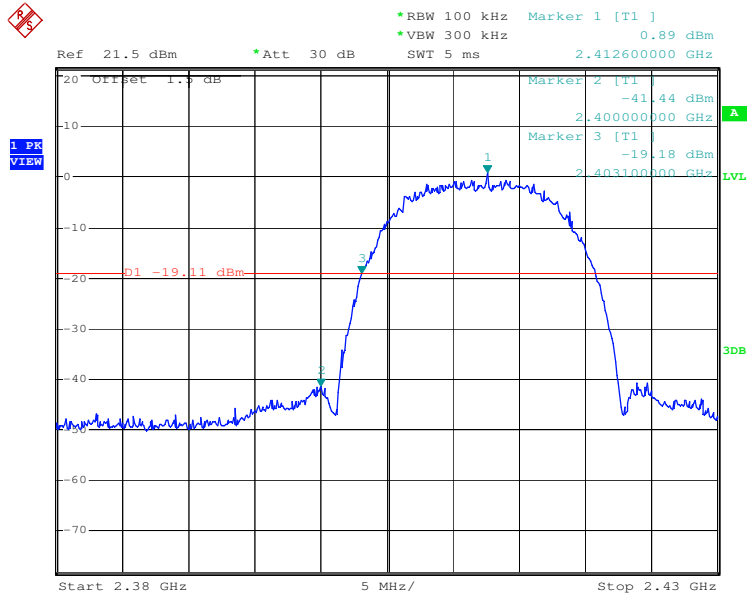
SGS-CSTC Standards Technical Services Ltd.

Report No.: SZEM120500236501

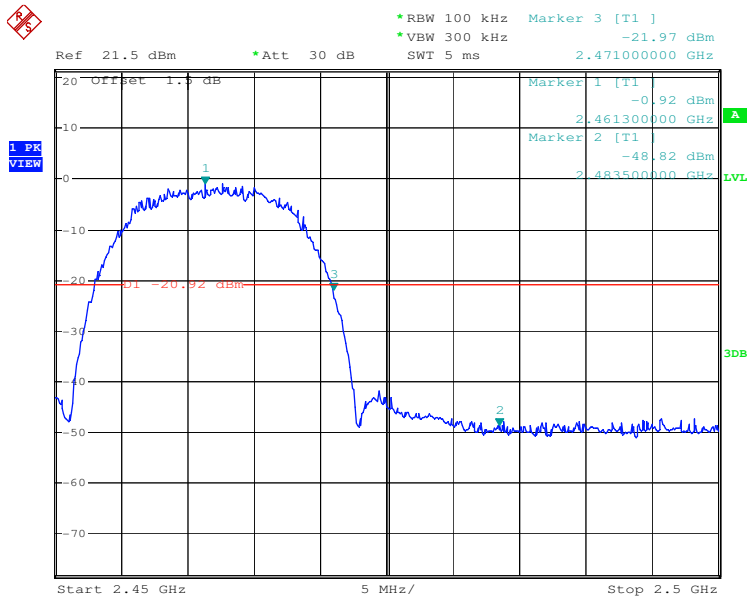
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Test plot as follows:

Test mode:	802.11b	Test channel:	Lowest
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Test mode:	802.11b	Test channel:	Highest
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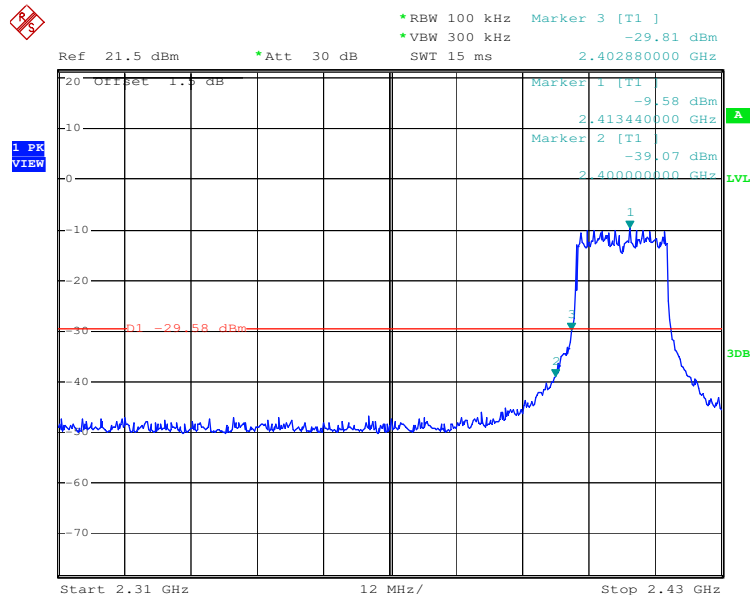


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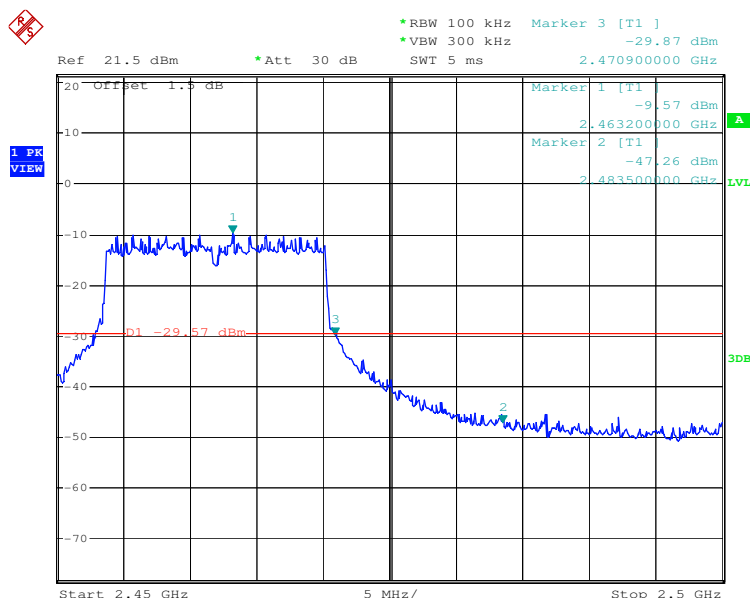
Report No.: SZEM120500236501

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Test mode:	802.11g	Test channel:	Lowest
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Test mode:	802.11g	Test channel:	Highest
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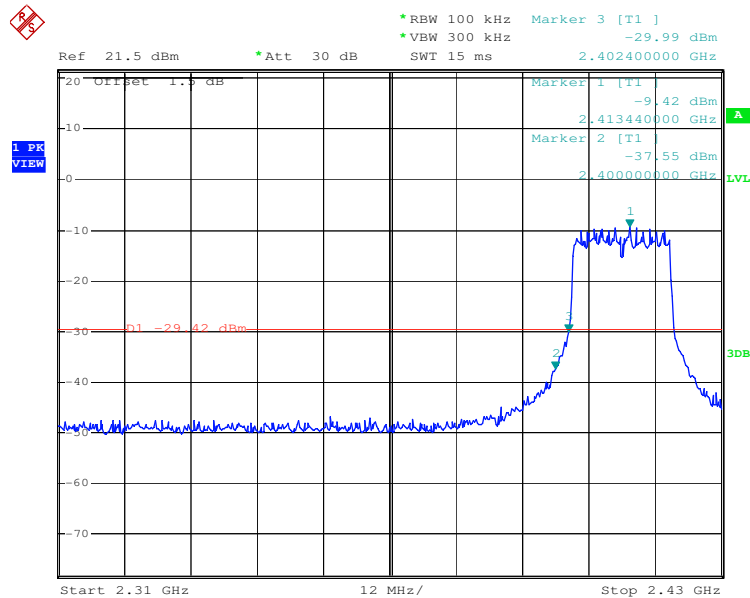


SGS-CSTC Standards Technical Services Ltd.

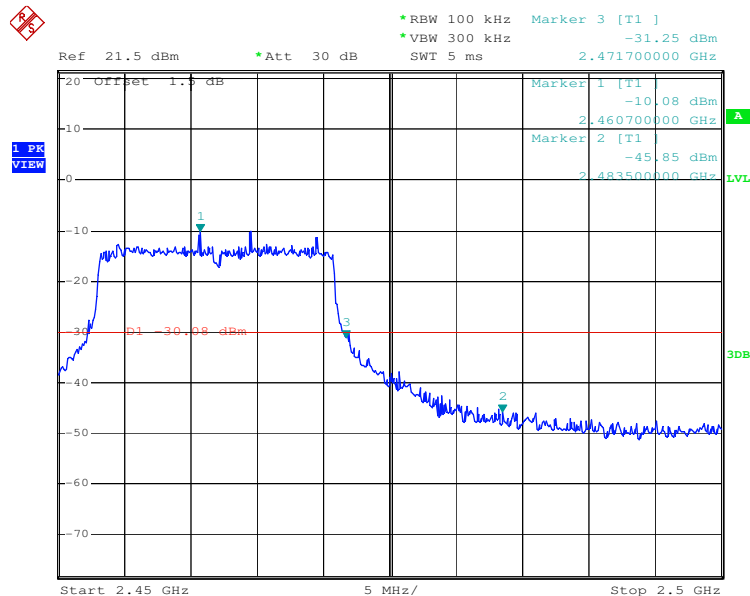
Report No.: SZEM120500236501

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Test mode:	802.11n(HT20)	Test channel:	Lowest
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Test mode:	802.11n(HT20)	Test channel:	Highest
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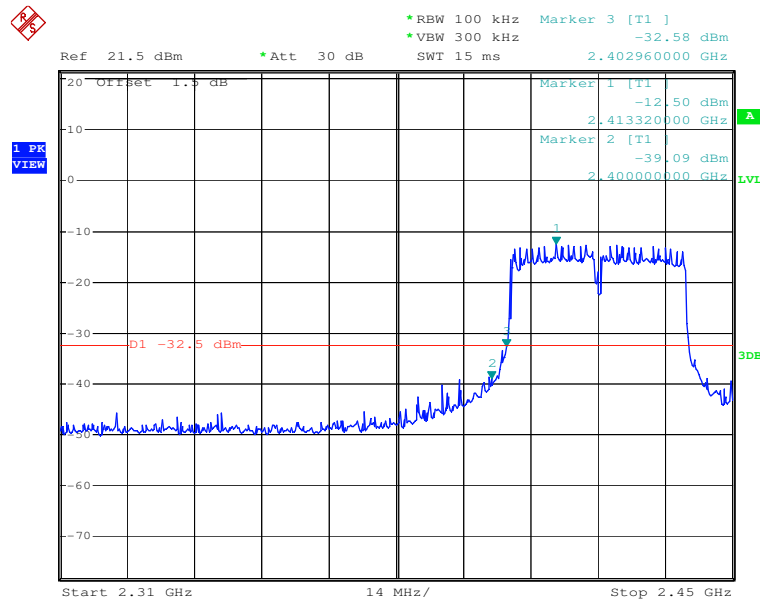


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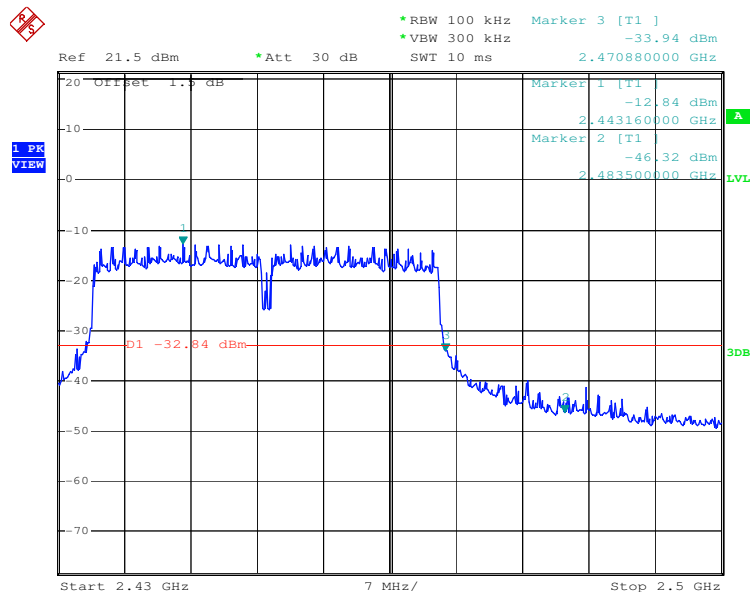
Report No.: SZEM120500236501

Page: 50 of 102

Test mode:	802.11n(HT40)	Test channel:	Lowest
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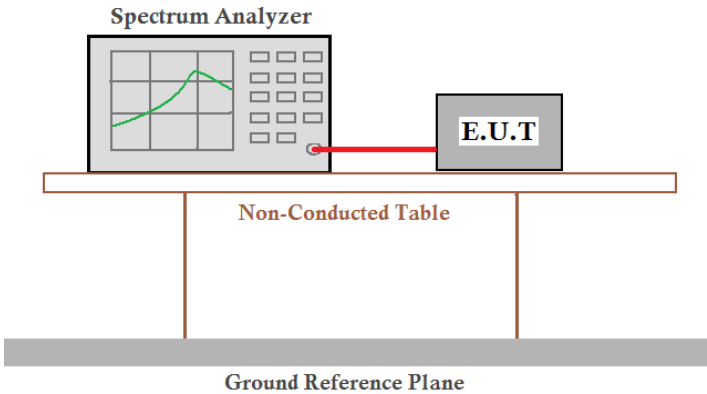


Test mode:	802.11n(HT40)	Test channel:	Highest
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5.7 RF Conducted Spurious Emissions

Test Requirement:	FCC Part15 C Section 15.247 (d)
Test Method:	ANSI C63.10 2009
Test Setup:	 <p><i>Remark:</i> Offset the High-Frequency cable loss 1.5dB in the spectrum analyzer.</p>
Exploratory Test Mode:	Transmitting mode
Final Test Mode:	Through Pre-scan, find the 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);135Mbps of rate is the worst case of 802.11n(HT40).
Limit:	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 band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.
Instruments Used:	Refer to section 4.10 for details
Test Results:	Pass



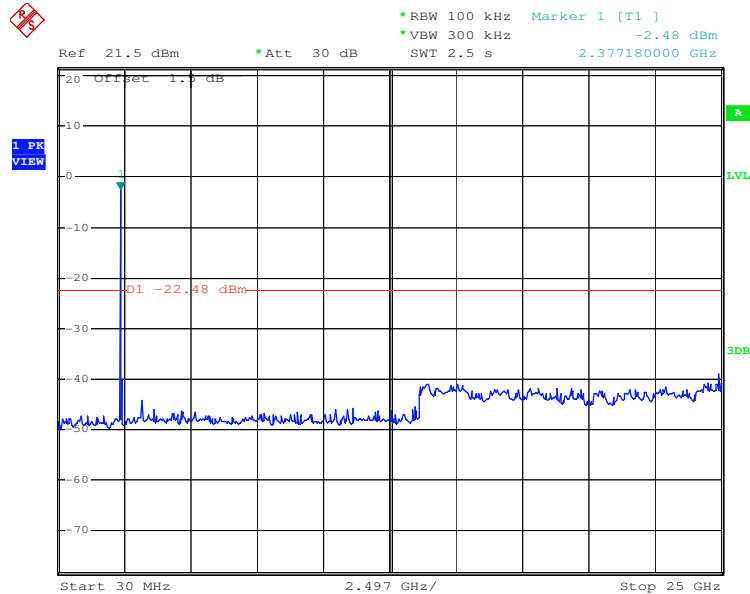
SGS-CSTC Standards Technical Services Ltd.

Report No.: SZEM120500236501

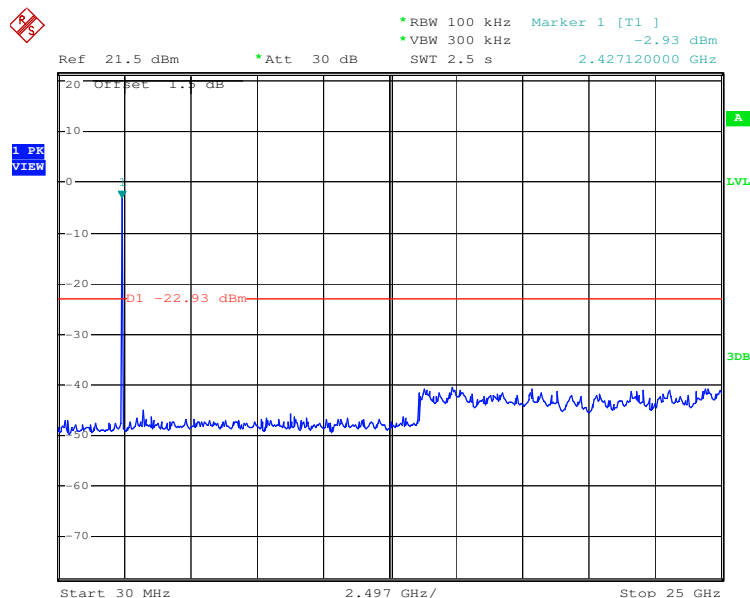
Page: 52 of 102

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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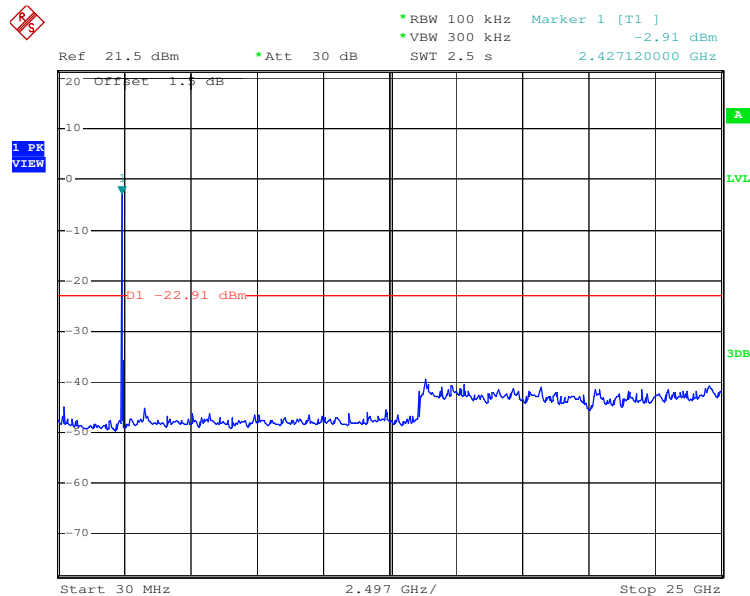


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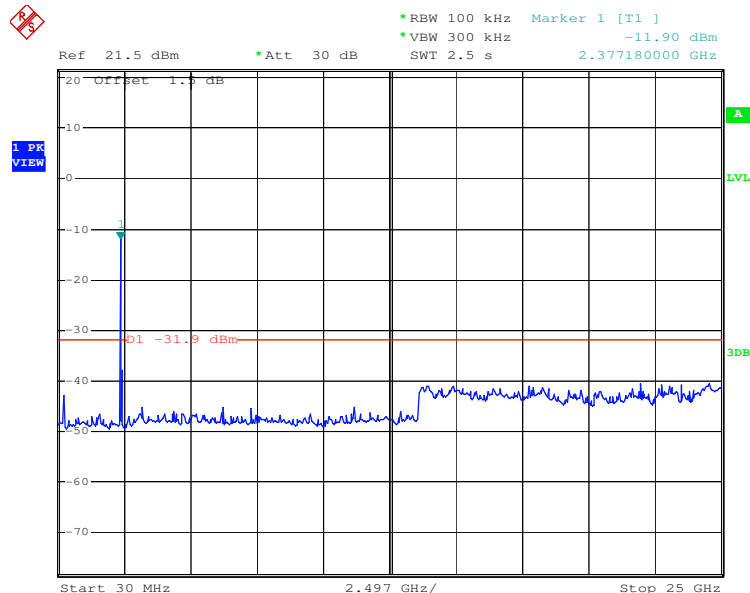
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Test mode:	802.11b	Test channel:	Highest
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Test mode:	802.11g	Test channel:	Lowest
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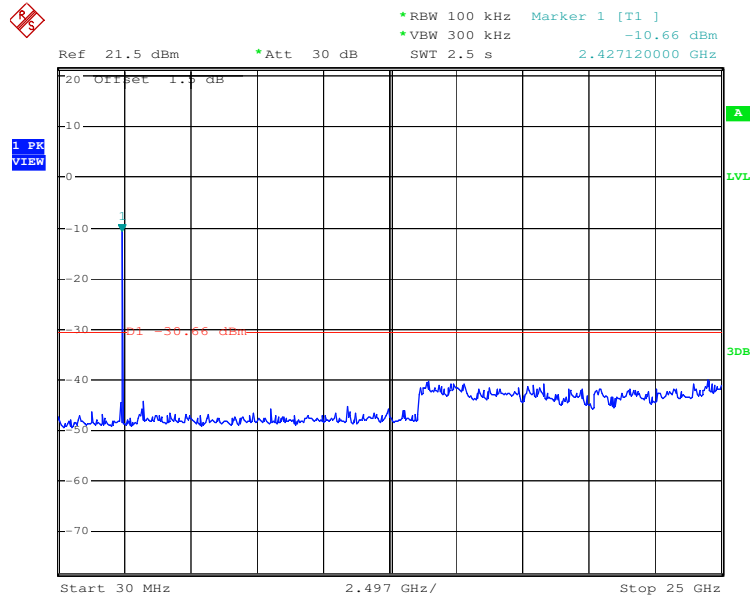


SGS-CSTC Standards Technical Services Ltd.

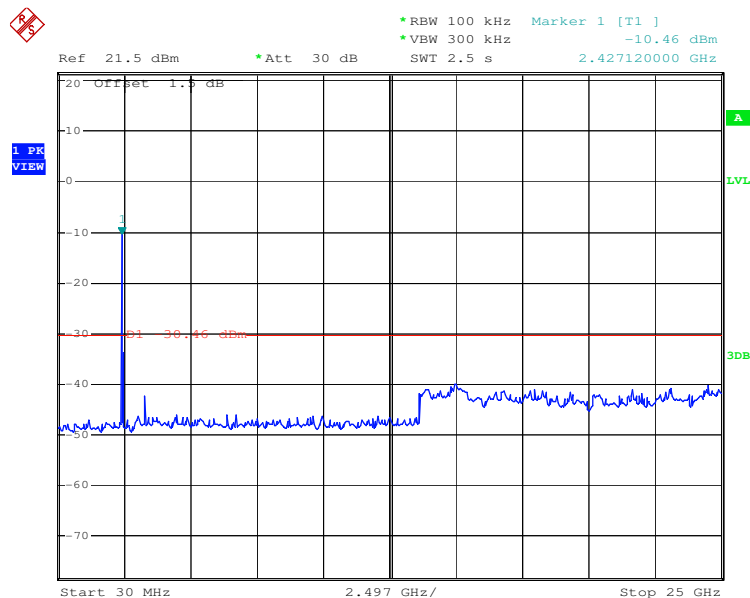
Report No.: SZEM120500236501

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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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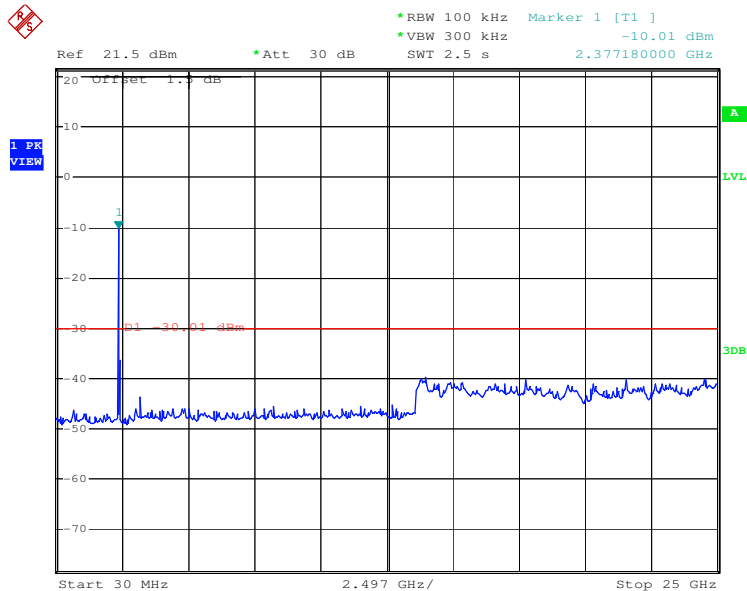


SGS-CSTC Standards Technical Services Ltd.

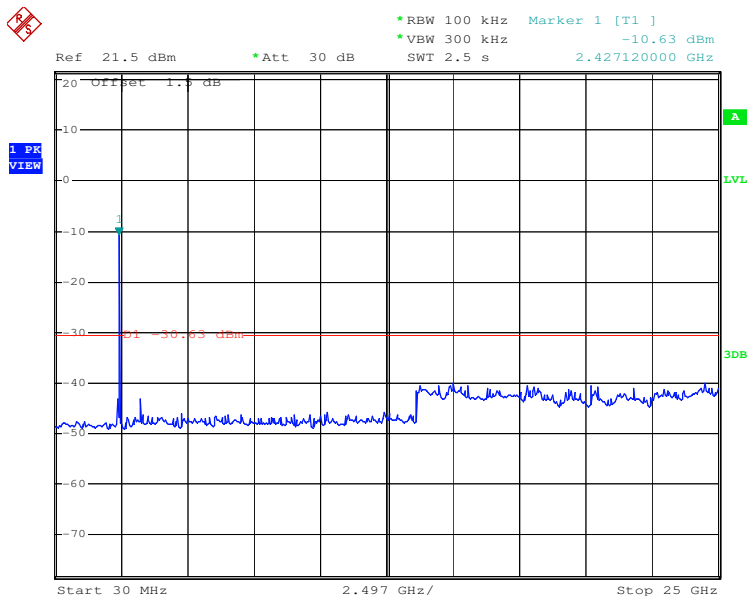
Report No.: SZEM120500236501

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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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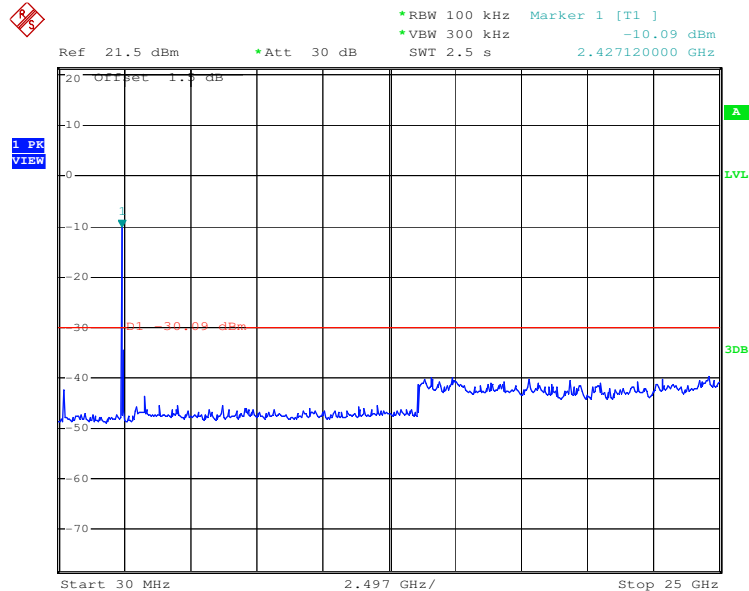


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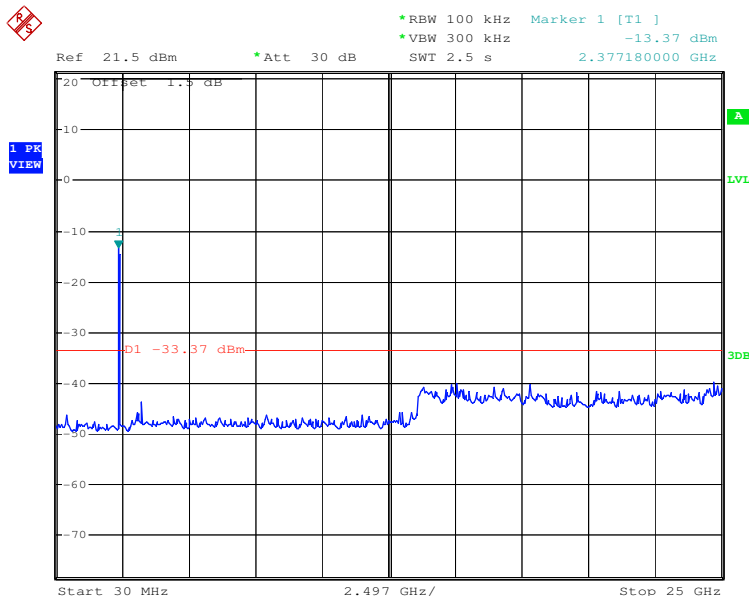
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Test mode:	802.11n(HT20)	Test channel:	Highest
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Test mode:	802.11n(HT40)	Test channel:	Lowest
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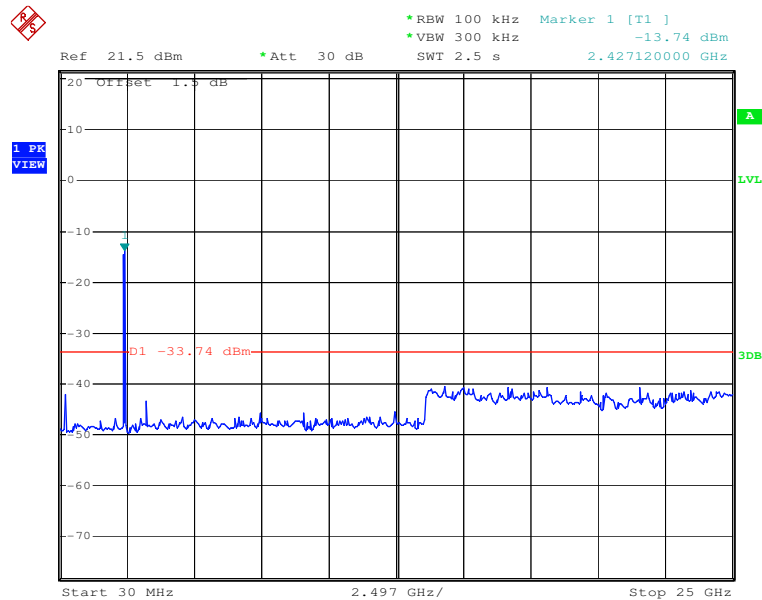


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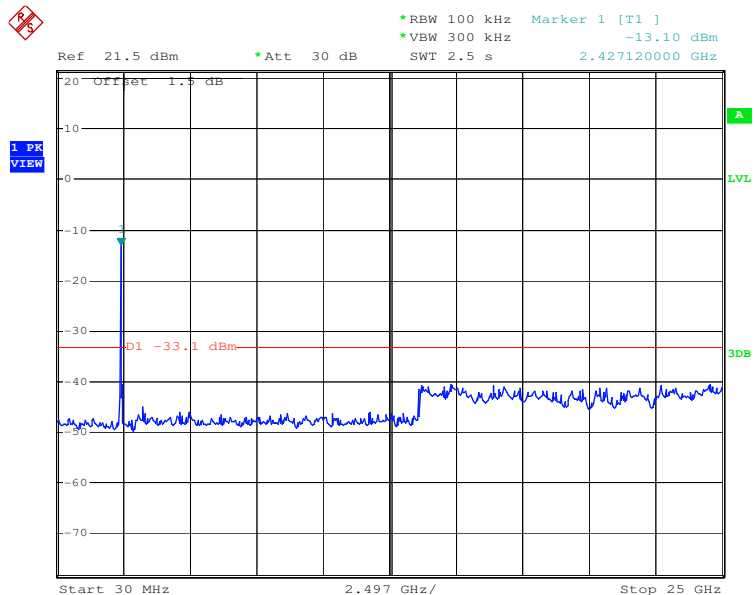
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Test mode:	802.11n(HT40)	Test channel:	Middle
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Test mode:	802.11n(HT40)	Test channel:	Highest
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5.8 Radiated Spurious Emissions

Test Requirement:	FCC Part15 C Section 15.209 and 15.205				
Test Method:	ANSI C63.10 2009				
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.				

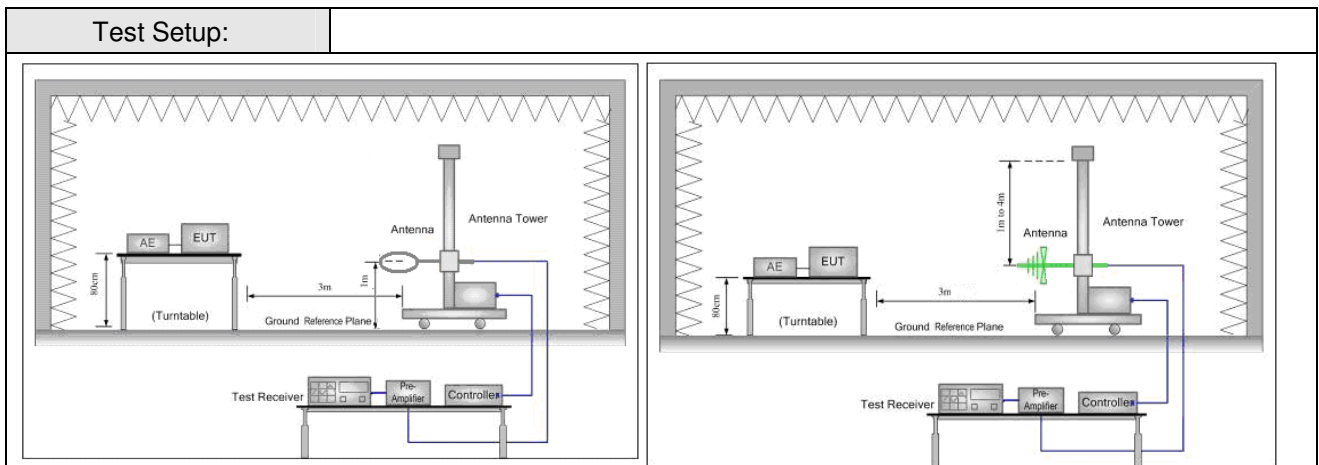


Figure 1. Below 30MHz

Figure 2. 30MHz to 1GHz

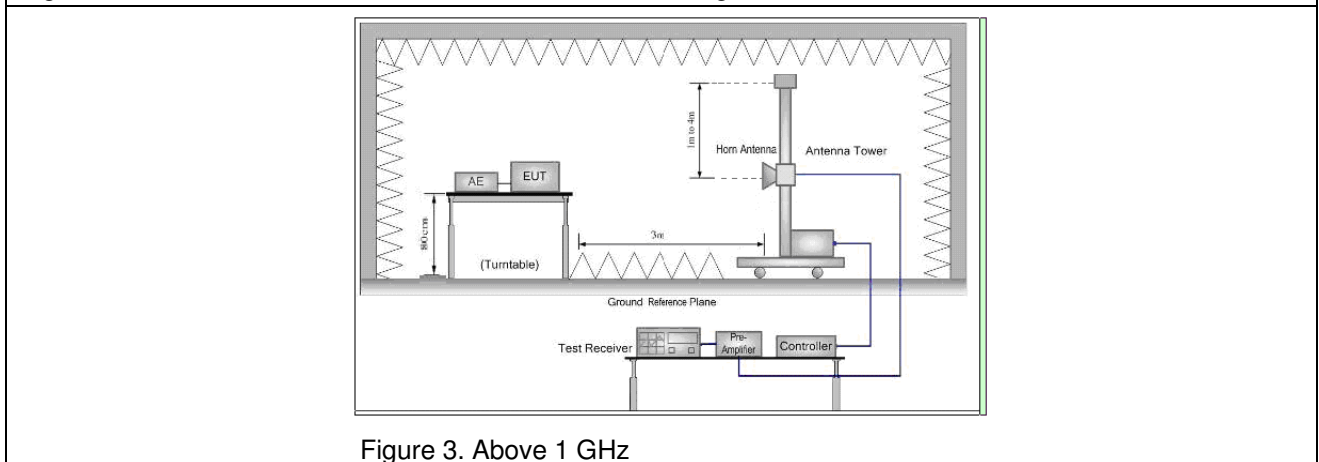


Figure 3. Above 1 GHz

<p>Test Procedure:</p>	<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 (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. e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. f. 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
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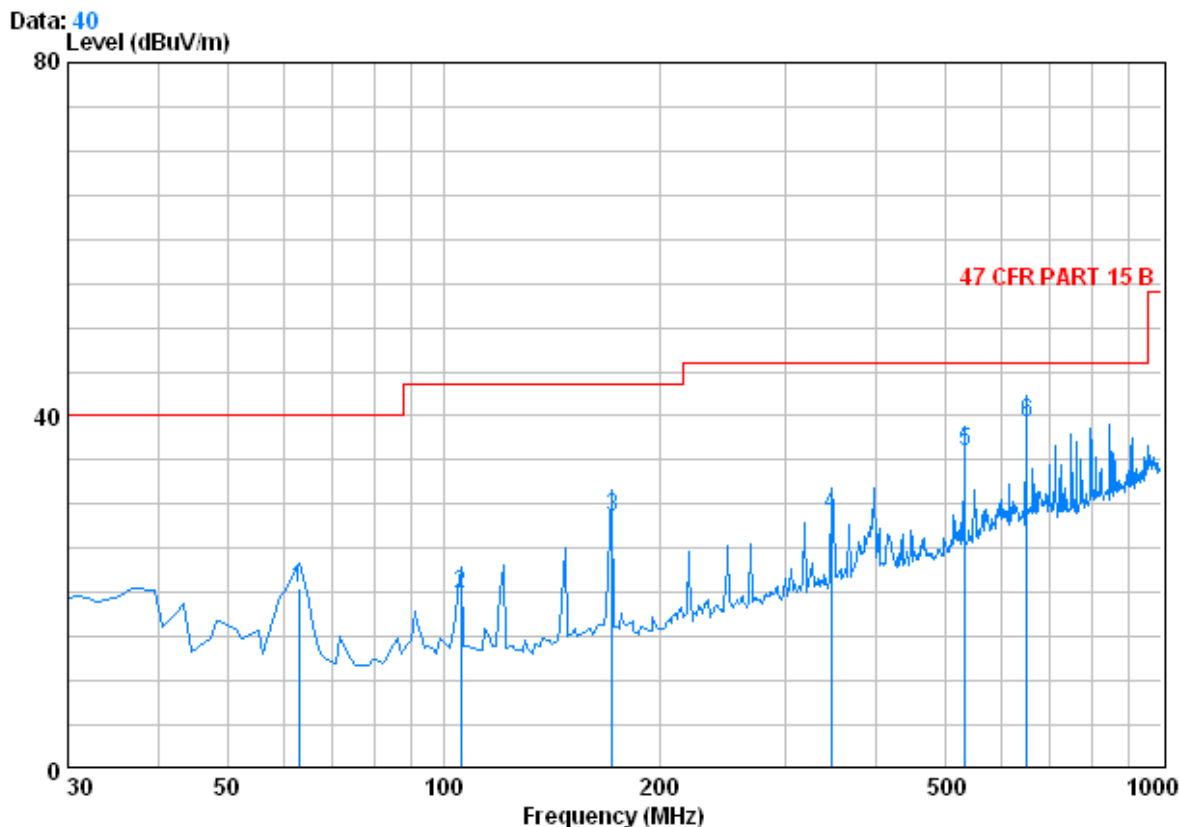
	<p>margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.</p> <p>g. Test the EUT in the lowest channel ,the middle channel ,the Highest channel</p> <p>h. The radiation measurements are performed in X, Y, Z axis positioning. And found 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, find the 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);135Mbps of rate is the worst case of 802.11n(HT40).
Instruments Used:	Refer to section 4.10 for details
Test Results:	Pass

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5.8.1 Radiated emission below 1GHz

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



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

Job No. : 2365ET

test mode : Transmitting

	Freq	Cable Loss	Antenna Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	62.980	0.80	7.11	27.26	39.75	20.40	40.00	-19.60
2	105.660	1.22	8.81	27.16	36.95	19.82	43.50	-23.68
3	171.620	1.36	9.55	26.81	44.51	28.61	43.50	-14.89
4	347.190	2.05	15.34	26.77	38.14	28.77	46.00	-17.23
5	532.460	2.63	18.62	27.65	42.30	35.91	46.00	-10.09
6 @	648.860	2.80	20.60	27.47	43.37	39.31	46.00	-6.69

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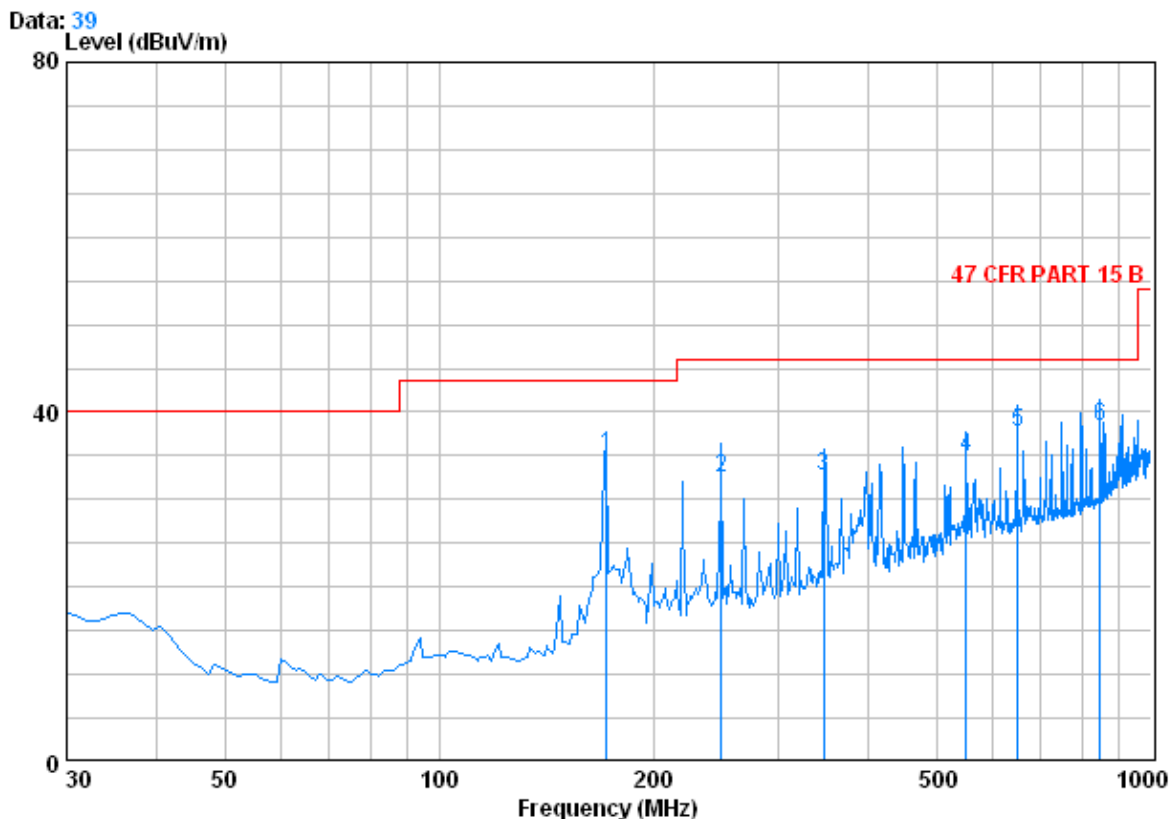


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Test mode:	Transmitting	Horizontal
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Condition : 47 CFR PART 15 B 3m 3142C HORIZONTAL

Job No. : 2365ET

test mode : Transmitting

	Freq	Cable Loss	Antenna Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	171.620	1.36	9.55	26.81	50.96	35.05	43.50	-8.45
2	249.220	1.67	12.27	26.54	44.98	32.38	46.00	-13.62
3	347.190	2.05	15.34	26.77	42.11	32.73	46.00	-13.27
4	548.950	2.65	18.87	27.62	40.88	34.78	46.00	-11.22
5	648.860	2.80	20.60	27.47	41.82	37.75	46.00	-8.25
6	847.710	3.40	22.40	27.02	39.64	38.42	46.00	-7.58

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5.8.2 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		
1479.955	3.88	28.07	39.34	47.47	40.08	74	-33.92	Vertical		
3561.636	5.85	33.28	40.72	48.18	46.59	74	-27.41	Vertical		
4821.757	7.45	34.68	41.64	54.11	54.60	74	-20.40	Vertical		
6478.053	8.14	36.26	40.51	48.43	52.32	74	-21.68	Vertical		
8615.126	9.51	36.29	38.65	45.26	52.41	74	-21.59	Vertical		
11486.410	10.91	38.40	38.06	42.74	53.99	74	-20.01	Vertical		
1621.985	4.00	29.09	39.41	45.46	39.14	74	-34.86	Horizontal		
3700.260	6.05	33.45	40.81	47.70	46.39	74	-27.61	Horizontal		
4821.757	7.45	34.68	41.64	52.79	53.28	74	-20.72	Horizontal		
7338.621	8.90	35.94	39.75	48.19	53.28	74	-20.72	Horizontal		
9370.083	9.65	37.03	37.99	43.54	52.23	74	-21.77	Horizontal		
11428.080	10.87	38.42	38.04	42.62	53.87	74	-20.13	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		
1541.476	3.94	28.47	39.37	45.38	38.42	74	-35.58	Vertical		
4871.103	7.48	34.59	41.68	53.19	53.58	74	-20.42	Vertical		
6956.627	8.41	35.85	40.08	48.04	52.22	74	-21.78	Vertical		
7860.737	9.29	36.00	39.31	47.83	53.81	74	-20.19	Vertical		
10480.590	10.19	38.28	37.65	41.45	52.27	74	-21.73	Vertical		
12334.980	11.42	39.24	38.42	41.30	53.54	74	-20.46	Vertical		
1795.839	4.16	30.32	39.48	46.50	41.50	74	-32.50	Horizontal		
4871.103	7.48	34.59	41.68	52.38	52.77	74	-21.23	Horizontal		
5806.408	7.89	35.4	41.09	51.60	53.80	74	-20.20	Horizontal		
7489.599	9.08	36.00	39.62	48.35	53.81	74	-20.19	Horizontal		
10480.590	10.19	38.28	37.65	42.61	53.43	74	-20.57	Horizontal		
12055.600	11.31	38.95	38.30	41.58	53.54	74	-20.46	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	
1569.189	3.96	28.59	39.38	46.14	39.31	74	-34.69	Vertical	
4920.955	7.50	34.51	41.71	51.71	52.01	74	-21.99	Vertical	
6032.401	7.99	35.74	40.89	48.58	51.42	74	-22.58	Vertical	
7357.326	8.92	35.94	39.74	48.75	53.87	74	-20.13	Vertical	
9960.375	9.83	37.67	37.48	42.61	52.63	74	-21.37	Vertical	
11027.980	10.59	38.49	37.88	42.50	53.70	74	-20.30	Vertical	
1814.218	4.18	30.44	39.49	46.42	41.55	74	-32.45	Horizontal	
4920.955	7.50	34.51	41.71	50.32	50.62	74	-23.38	Horizontal	
5865.832	7.92	35.48	41.04	48.66	51.02	74	-22.98	Horizontal	
7394.878	8.96	35.96	39.71	47.09	52.30	74	-21.70	Horizontal	
9538.543	9.67	37.23	37.86	43.57	52.61	74	-21.39	Horizontal	
11486.410	10.91	38.40	38.06	41.94	53.19	74	-20.81	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	
1605.554	3.99	28.96	39.40	45.95	39.50	74	-34.50	Vertical	
3662.775	5.98	33.41	40.79	47.47	46.07	74	-27.93	Vertical	
4821.757	7.45	34.68	41.64	53.41	53.90	74	-20.10	Vertical	
7338.621	8.90	35.94	39.75	47.21	52.30	74	-21.70	Vertical	
9636.161	9.68	37.34	37.76	43.14	52.40	74	-21.60	Vertical	
11140.850	10.67	38.47	37.92	42.75	53.97	74	-20.03	Vertical	
1693.716	4.07	29.58	39.44	46.35	40.56	74	-33.44	Horizontal	
4821.757	7.45	34.68	41.64	51.15	51.64	74	-22.36	Horizontal	
6428.771	8.12	36.20	40.55	48.68	52.45	74	-21.55	Horizontal	
7941.185	9.31	36.00	39.24	45.95	52.02	74	-21.98	Horizontal	
9441.913	9.66	37.14	37.94	43.54	52.40	74	-21.60	Horizontal	
10480.590	10.19	38.28	37.65	43.08	53.90	74	-20.10	Horizontal	

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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			
1746.251	4.11	29.95	39.46	46.38	40.98	74	-33.02	Vertical			
4871.103	7.48	34.59	41.68	50.24	50.63	74	-23.37	Vertical			
6363.645	8.10	36.14	40.61	48.45	52.08	74	-21.92	Vertical			
7489.599	9.08	36.00	39.62	47.56	53.02	74	-20.98	Vertical			
10062.310	9.89	37.78	37.47	42.18	52.38	74	-21.62	Vertical			
11963.890	11.26	38.87	38.26	41.52	53.39	74	-20.61	Vertical			
1837.456	4.19	30.57	39.50	46.30	41.56	74	-32.44	Horizontal			
4871.103	7.48	34.59	41.68	49.72	50.11	74	-23.89	Horizontal			
6428.771	8.12	36.20	40.55	48.41	52.18	74	-21.82	Horizontal			
7394.878	8.96	35.96	39.71	48.00	53.21	74	-20.79	Horizontal			
9441.913	9.66	37.14	37.94	44.03	52.89	74	-21.11	Horizontal			
11486.410	10.91	38.40	38.06	42.17	53.42	74	-20.58	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			
1561.221	3.96	28.59	39.38	46.89	40.06	74	-33.94	Vertical			
4065.707	6.55	33.99	41.08	47.16	46.62	74	-27.38	Vertical			
5865.832	7.92	35.48	41.04	47.64	50.00	74	-24.00	Vertical			
6974.358	8.43	35.83	40.08	48.09	52.27	74	-21.73	Vertical			
9562.854	9.67	37.27	37.83	43.04	52.15	74	-21.85	Vertical			
11722.720	11.08	38.62	38.16	41.93	53.47	74	-20.53	Vertical			
1777.646	4.15	30.20	39.47	46.46	41.34	74	-32.66	Horizontal			
3176.155	5.30	33.33	40.44	47.25	45.44	74	-28.56	Horizontal			
4582.422	7.18	35.06	41.47	47.92	48.69	74	-25.31	Horizontal			
6363.645	8.10	36.14	40.61	47.87	51.50	74	-22.50	Horizontal			
8104.559	9.36	36.04	39.10	46.08	52.38	74	-21.62	Horizontal			
11112.52	10.64	38.48	37.91	42.63	53.84	74	-20.16	Horizontal			

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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		
1626.120	4.00	29.09	39.41	48.04	41.72	74	-32.28	Vertical		
4821.757	7.45	34.68	41.64	52.77	53.26	74	-20.74	Vertical		
6544.350	8.16	36.27	40.45	48.62	52.60	74	-21.40	Vertical		
8022.456	9.34	36.01	39.16	47.05	53.24	74	-20.76	Vertical		
10374.42	10.11	38.14	37.60	42.58	53.23	74	-20.77	Vertical		
12055.600	11.31	38.95	38.30	42.03	53.99	74	-20.01	Vertical		
1706.700	4.08	29.70	39.44	46.33	40.67	74	-33.33	Horizontal		
3903.444	6.33	33.70	40.97	47.91	46.97	74	-27.03	Horizontal		
4821.757	7.45	34.68	41.64	50.48	50.97	74	-23.03	Horizontal		
7338.621	8.90	35.94	39.75	48.05	53.14	74	-20.86	Horizontal		
10165.290	9.97	37.90	37.51	42.18	52.54	74	-21.46	Horizontal		
12334.980	11.42	39.24	38.42	40.90	53.14	74	-20.86	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		
1561.221	3.96	28.59	39.38	47.48	40.65	74	-33.35	Vertical		
3973.622	6.43	33.78	41.02	47.47	46.66	74	-27.34	Vertical		
4871.103	7.48	34.59	41.68	49.96	50.35	74	-23.65	Vertical		
6628.177	8.19	36.18	40.38	48.70	52.69	74	-21.31	Vertical		
8042.903	9.34	36.01	39.15	47.65	53.85	74	-20.15	Vertical		
10480.590	10.19	38.28	37.65	43.05	53.87	74	-20.13	Vertical		
1655.354	4.04	29.33	39.42	50.00	43.95	74	-30.05	Horizontal		
3625.669	5.93	33.34	40.76	48.12	46.63	74	-27.37	Horizontal		
4883.519	7.48	34.59	41.68	49.70	50.09	74	-23.91	Horizontal		
7547.013	9.14	36.00	39.57	47.99	53.56	74	-20.44	Horizontal		
9960.375	9.83	37.67	37.48	43.90	53.92	74	-20.08	Horizontal		
11633.540	11.02	38.54	38.13	41.89	53.32	74	-20.68	Horizontal		

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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	
1782.177	4.15	30.20	39.47	46.66	41.54	74	-32.46	Vertical	
4410.750	6.96	34.97	41.35	47.32	47.90	74	-26.10	Vertical	
5806.408	7.89	35.40	41.09	48.32	50.52	74	-23.48	Vertical	
8022.456	9.34	36.01	39.16	47.08	53.27	74	-20.73	Vertical	
9538.543	9.67	37.23	37.86	43.59	52.63	74	-20.37	Vertical	
11112.520	10.64	38.48	37.91	42.16	53.37	74	-20.63	Vertical	
1746.251	4.11	29.95	39.46	45.82	40.42	74	-33.58	Horizontal	
3700.260	6.05	33.45	40.81	47.35	46.04	74	-27.96	Horizontal	
5674.896	7.83	35.18	41.20	47.84	49.65	74	-24.35	Horizontal	
6611.326	8.18	36.20	40.40	48.03	52.01	74	-21.99	Horizontal	
8042.903	9.34	36.01	39.15	47.79	53.99	74	-20.01	Horizontal	
12429.540	11.46	39.33	38.46	41.29	53.62	74	-20.38	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	
1655.354	4.04	29.33	39.42	46.24	40.19	74	-33.81	Vertical	
3933.367	6.38	33.74	40.98	46.78	45.92	74	-28.08	Vertical	
5732.974	7.86	35.26	41.15	47.93	49.90	74	-24.10	Vertical	
7624.250	9.22	36.00	39.51	47.76	53.47	74	-20.53	Vertical	
10165.290	9.97	37.90	37.51	42.65	53.01	74	-20.99	Vertical	
10999.950	10.56	38.50	37.86	42.66	53.86	74	-20.14	Vertical	
1392.247	3.80	27.91	39.31	47.79	40.19	74	-33.81	Horizontal	
4834.046	7.46	34.65	41.65	49.97	50.43	74	-23.57	Horizontal	
6478.053	8.14	36.26	40.51	48.43	52.32	74	-21.68	Horizontal	
8462.975	9.47	36.19	38.78	46.92	53.80	74	-20.20	Horizontal	
9370.083	9.65	37.03	37.99	43.84	52.53	74	-21.47	Horizontal	
11486.410	10.91	38.40	38.06	42.09	53.34	74	-20.66	Horizontal	



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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		
1525.860	3.92	28.35	39.37	46.37	39.27	74	-34.73	Vertical		
3662.775	5.98	33.41	40.79	47.28	45.88	74	-28.12	Vertical		
4883.519	7.48	34.59	41.68	48.28	48.67	74	-25.33	Vertical		
5910.798	7.93	35.56	41.01	48.59	51.07	74	-22.93	Vertical		
8042.903	9.34	36.01	39.15	47.03	53.23	74	-20.77	Vertical		
10453.950	10.17	38.24	37.64	42.25	53.02	74	-20.98	Vertical		
1711.050	4.08	29.70	39.44	46.68	41.02	74	-32.98	Horizontal		
3552.582	5.83	33.26	40.70	47.54	45.93	74	-28.07	Horizontal		
5284.497	7.67	34.68	41.55	48.17	48.97	74	-25.03	Horizontal		
7027.823	8.49	35.81	40.03	48.74	53.01	74	-20.99	Horizontal		
9346.262	9.65	37.01	38.03	44.38	53.01	74	-20.99	Horizontal		
11486.410	10.91	38.40	38.06	41.77	53.02	74	-20.98	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		
1323.141	3.75	27.79	39.28	48.61	40.87	74	-33.13	Vertical		
3672.110	6.00	33.41	40.80	47.74	46.35	74	-27.65	Vertical		
5230.963	7.65	34.63	41.58	48.82	49.52	74	-24.48	Vertical		
7566.249	9.17	36.00	39.56	47.61	53.22	74	-20.78	Vertical		
9346.262	9.65	37.01	38.03	44.13	52.76	74	-21.24	Vertical		
11963.890	11.26	38.87	38.26	41.40	53.27	74	-20.73	Vertical		
1406.496	3.81	27.94	39.31	47.41	39.85	74	-34.15	Horizontal		
3120.061	5.22	33.35	40.40	48.84	47.01	74	-26.99	Horizontal		
4594.102	7.18	35.06	41.47	47.96	48.73	74	-25.27	Horizontal		
6172.197	8.03	35.90	40.78	47.73	50.88	74	-23.12	Horizontal		
8527.851	9.49	36.23	38.73	46.20	53.19	74	-20.81	Horizontal		
11112.520	10.64	38.48	37.91	44.35	53.56	74	-20.44	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.

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5.9 Band Edge (Radiated Emission)

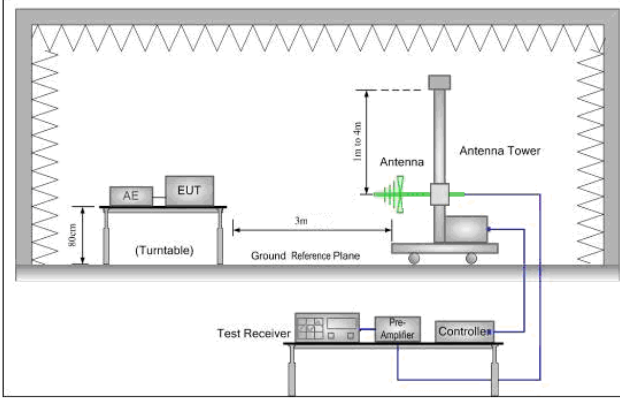
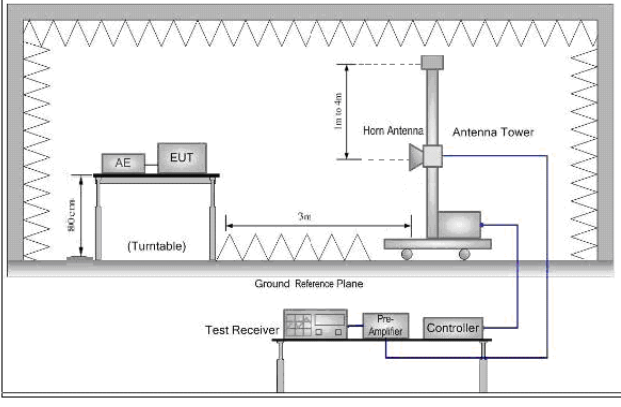
Test Requirement:	FCC Part15 C Section 15.209 and 15.205		
Test Method:	ANSI C63.10 2009		
Test Site:	Measurement Distance: 3m (Semi-Anechoic Chamber)		
Limit:	Frequency	Limit (dBuV/m @3m)	Remark
	30MHz-88MHz	40.0	Quasi-peak Value
	88MHz-216MHz	43.5	Quasi-peak Value
	216MHz-960MHz	46.0	Quasi-peak Value
	960MHz-1GHz	54.0	Quasi-peak Value
	Above 1GHz	54.0	Average Value
		74.0	Peak Value
Test Setup:	<div style="display: flex; justify-content: space-around;">   </div>		

Figure 1. 30MHz to 1GHz

Figure 2. Above 1 GHz



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Test Procedure:	<ul 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. Repeat above procedures until all frequencies measured was complete.
Exploratory Test Mode:	Transmitting mode
Final Test Mode:	Through Pre-scan, find the 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);135Mbps of rate is the worst case of 802.11n(HT40).
Instruments Used:	Refer to section 4.10 for details
Test Results:	Pass

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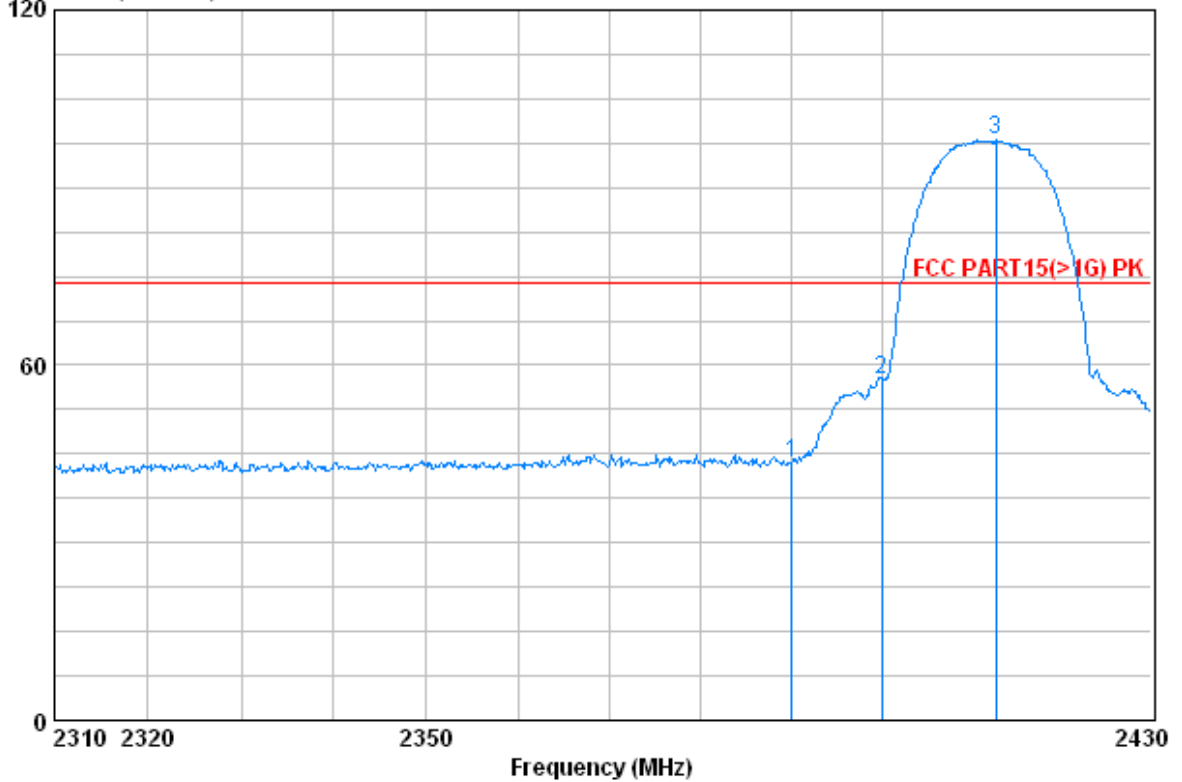
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Test plot as follows:

Worse case mode:		Test channel:	Lowest	Remark:	Peak	Vertical
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Data: 18

Level (dBuV/m)



Condition : FCC PART15(>1G) PK 3m VERTICAL
Job No. : 2365RF
Mode : 802.11b 2412MHz

	Freq	CableAntenna Loss	Antenna Factor	Preamplifier Factor	Read Level	Level	Limit	Over
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2390.000	2.98	32.51	39.85	48.00	43.64	74.00	-30.36
2	2400.000	2.98	32.51	39.86	62.00	57.63	74.00	-16.37
3 @	2412.600	2.99	32.54	39.86	102.33	98.00	74.00	24.00

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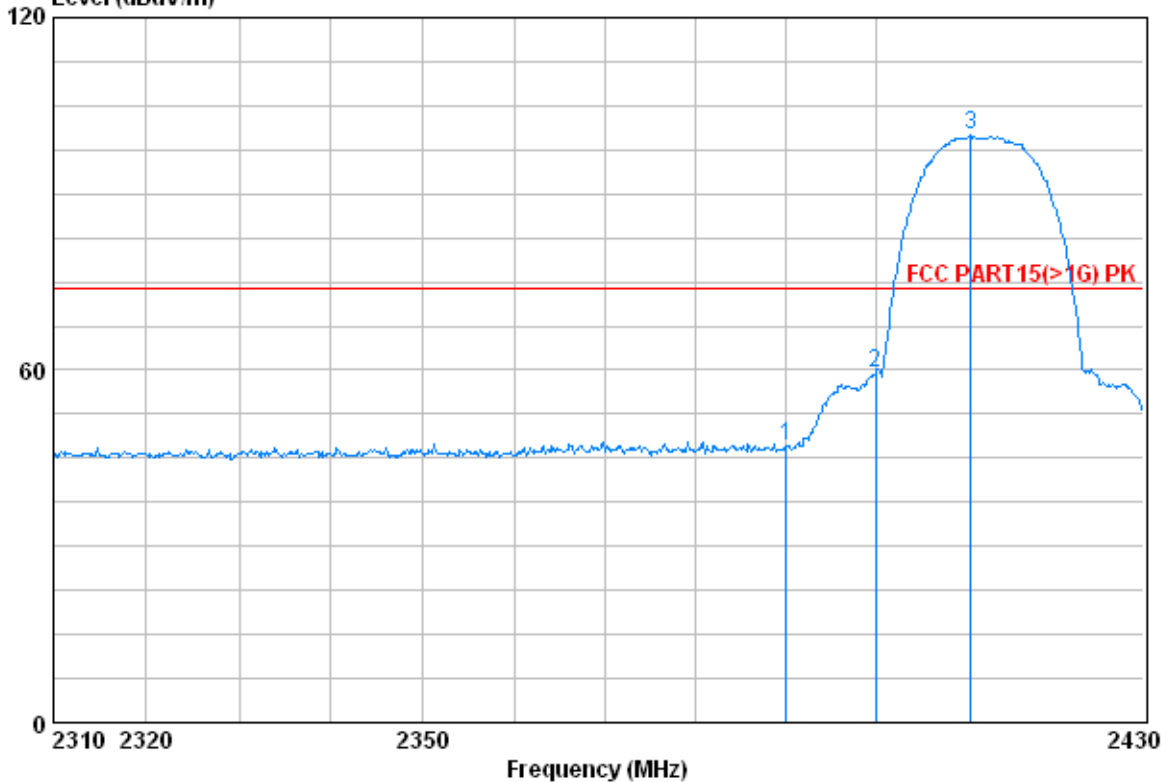
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Test mode:	802.11b	Test channel:	Lowest	Remark:	Peak	Horizontal
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Data: 15
Level (dBuV/m)



Condition : FCC PART15(>1G) PK 3m HORIZONTAL

Job No. : 2365RF

Mode : 802.11b 2412MHz

	Freq	Cable Loss	Antenna Factor	Preamplifier Factor	Read Level	Level	Limit Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2390.000	2.98	32.51	39.85	51.37	47.01	74.00	-26.99
2	2400.000	2.98	32.51	39.86	63.72	59.35	74.00	-14.65
3 @	2410.560	2.99	32.54	39.86	104.23	99.91	74.00	25.91

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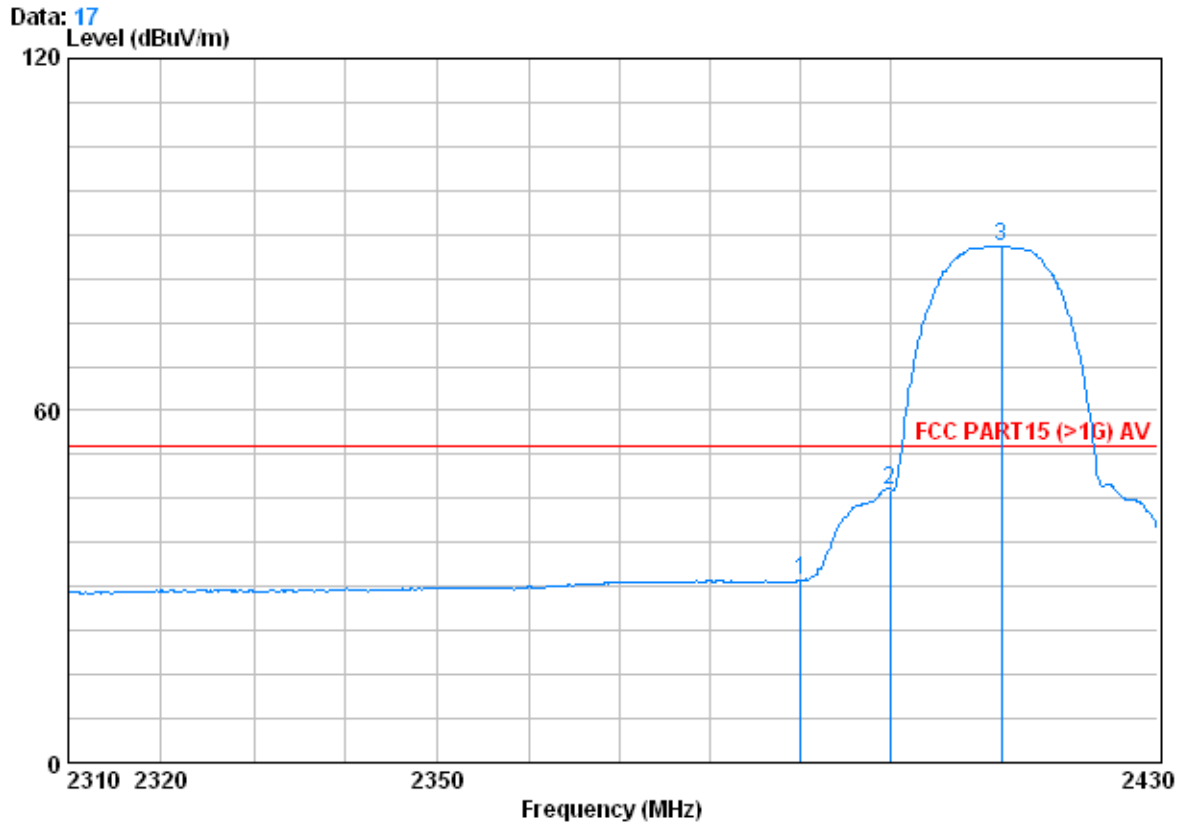


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Test mode:	802.11b	Test channel:	Lowest	Remark:	Average	Vertical
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Condition : FCC PART15 (>1G) AV 3m VERTICAL
Job No. : 2365RF
Mode : 802.11b 2412MHz

		CableAntenna		Preamp	Read		Limit	Over
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2390.000	2.98	32.51	39.85	35.30	30.94	54.00	-23.06
2	2400.000	2.98	32.51	39.86	50.90	46.54	54.00	-7.46
3 0	2412.480	2.99	32.54	39.86	92.39	88.06	54.00	34.06

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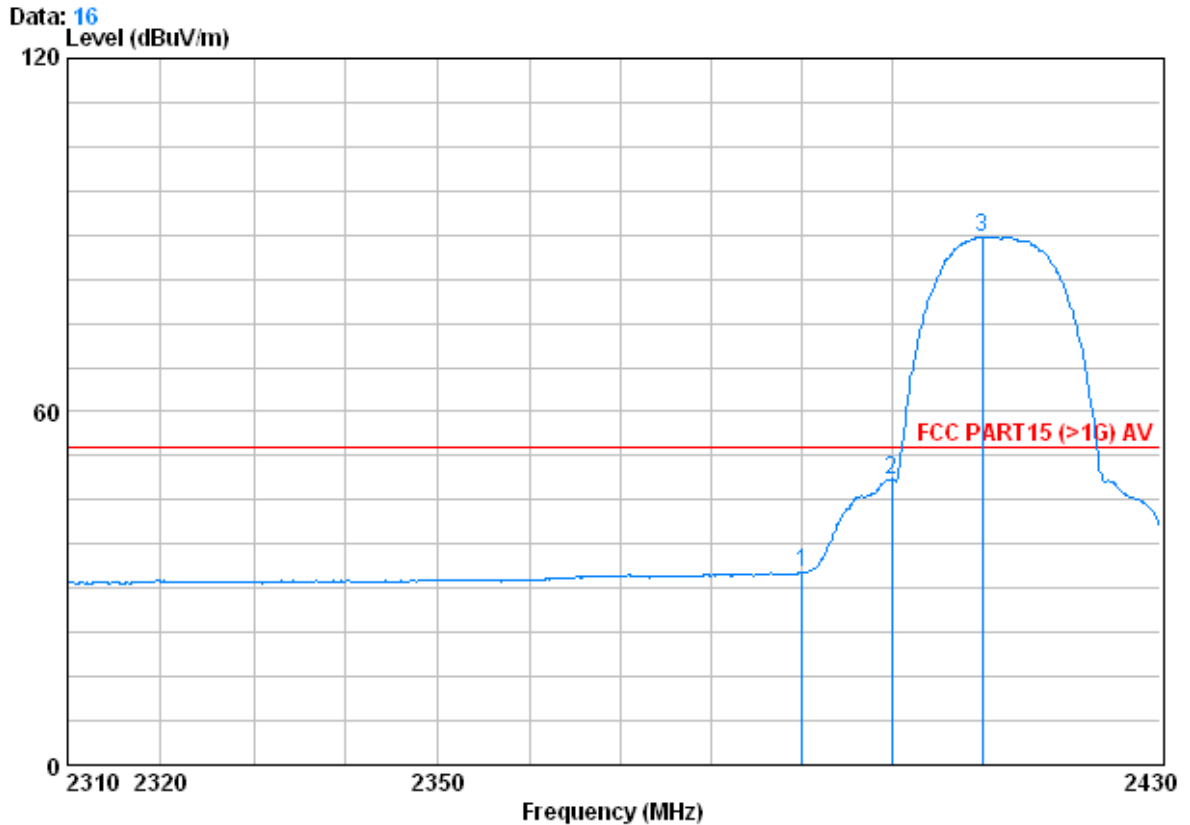


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Test mode:	802.11b	Test channel:	Lowest	Remark:	Average	Horizontal
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Condition : FCC PART15 (>1G) AV 3m HORIZONTAL

Job No. : 2365RF

Mode : 802.11b 2412MHz

	Freq	Cable Loss	Antenna Factor	Preamp Factor	Read Level	Level	Limit	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2390.000	2.98	32.51	39.85	36.91	32.56	54.00	-21.44
2	2400.000	2.98	32.51	39.86	52.70	48.33	54.00	-5.67
3	2410.080	2.99	32.54	39.86	93.93	89.60	54.00	35.60

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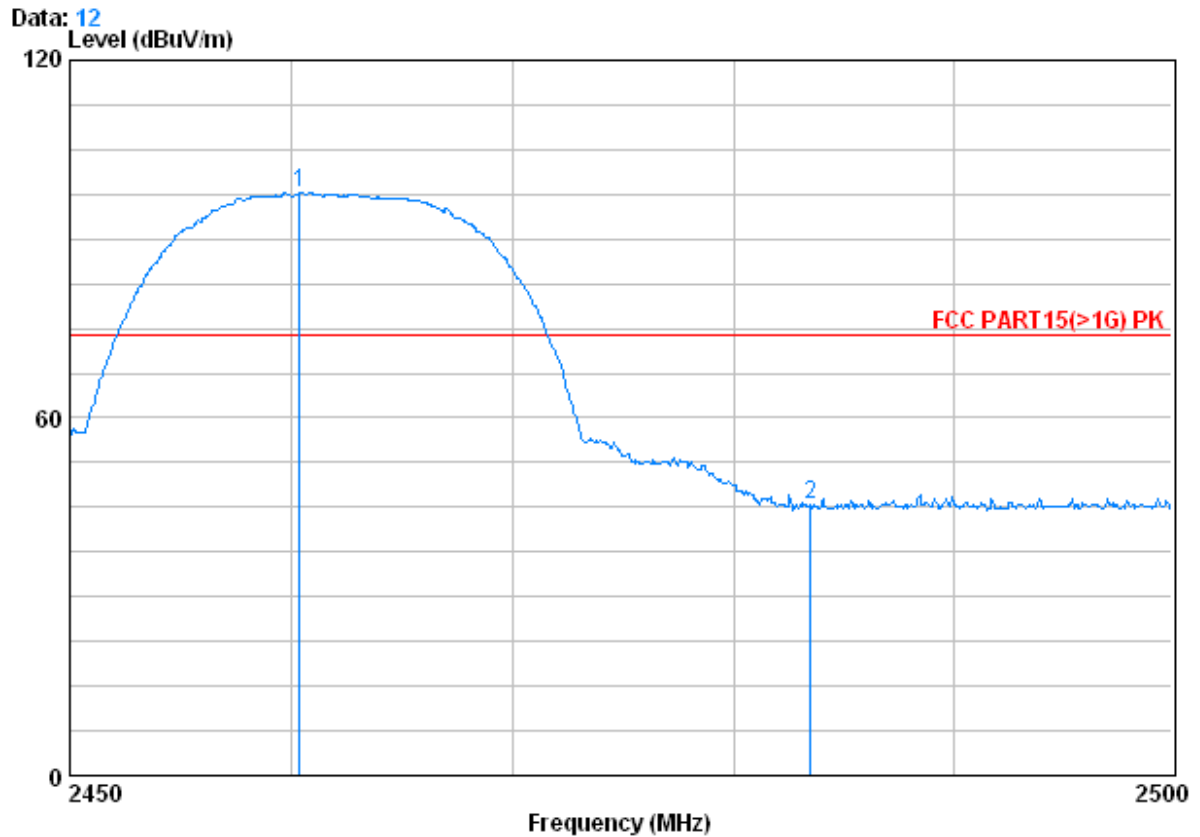


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Test mode:	802.11b	Test channel:	Highest	Remark:	Peak	Vertical
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Condition : FCC PART15(>1G) PK 3m VERTICAL
Job No. : 2365RF
Mode : 802.11b 2462MHz

	Freq	Cable	Antenna	Preamp	Read		Limit	Over
	MHz	Loss	Factor	Factor	Level	Level	Line	Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2460.350	3.02	32.64	39.91	101.97	97.72	74.00	23.72
2	2483.500	3.03	32.67	39.92	49.51	45.29	74.00	-28.71

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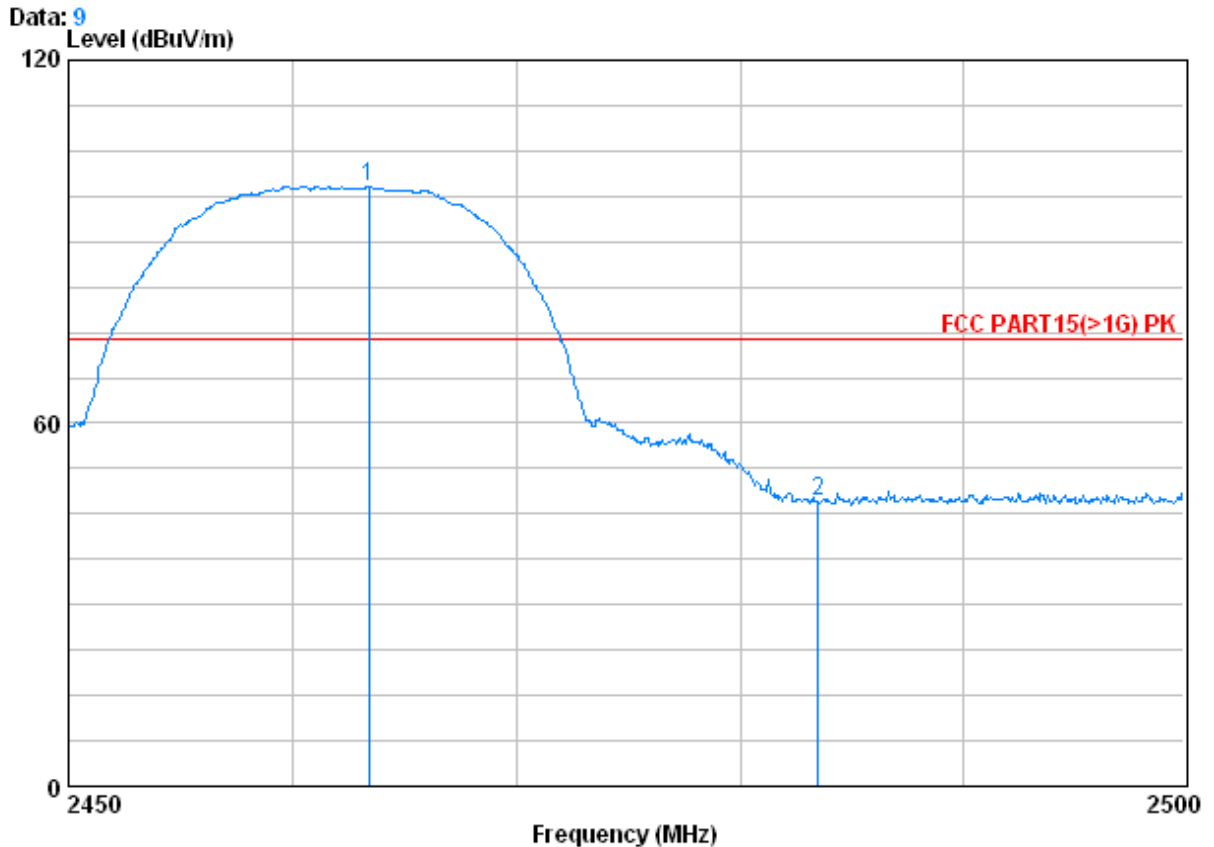


SGS-CSTC Standards Technical Services Ltd.

Report No.: SZEM120500236501

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

Job No. : 2365RF

Mode : 802.11b 2462MHz

	Freq	Cable	Antenna	Preamp	Read	Limit	Over
		Loss	Factor	Factor	Level	Line	Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dB
1 @	2463.350	3.02	32.64	39.91	103.44	99.19	74.00 25.19
2	2483.500	3.03	32.67	39.92	51.38	47.16	74.00 -26.84

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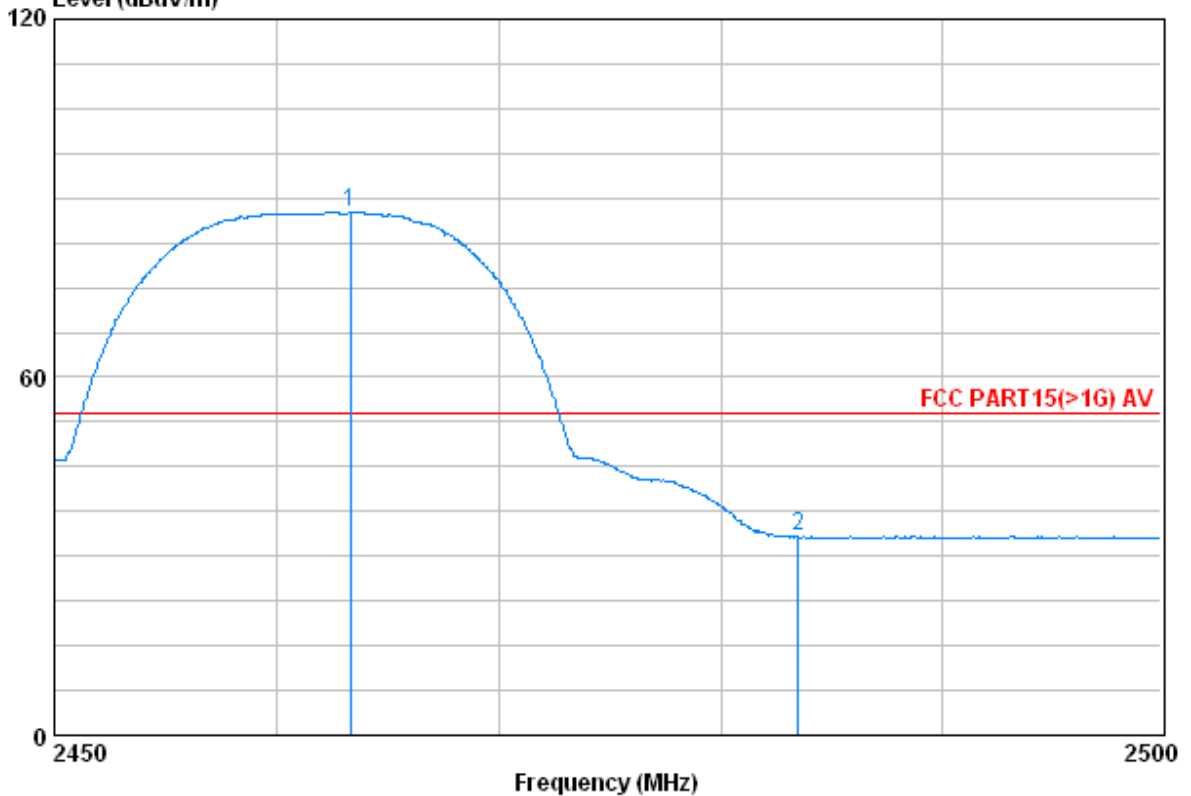
SGS-CSTC Standards Technical Services Ltd.

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Test mode:	802.11b	Test channel:	Highest	Remark:	Average	Vertical
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Data: 11
Level (dBuV/m)



Condition : FCC PART15(>1G) AV 3m VERTICAL
Job No. : 2365RF
Mode : 802.11b 2462MHz

	Freq	Cable Loss	Antenna Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2463.300	3.02	32.64	39.91	91.82	87.57	54.00	33.57
2	2483.500	3.03	32.67	39.92	37.52	33.30	54.00	-20.70



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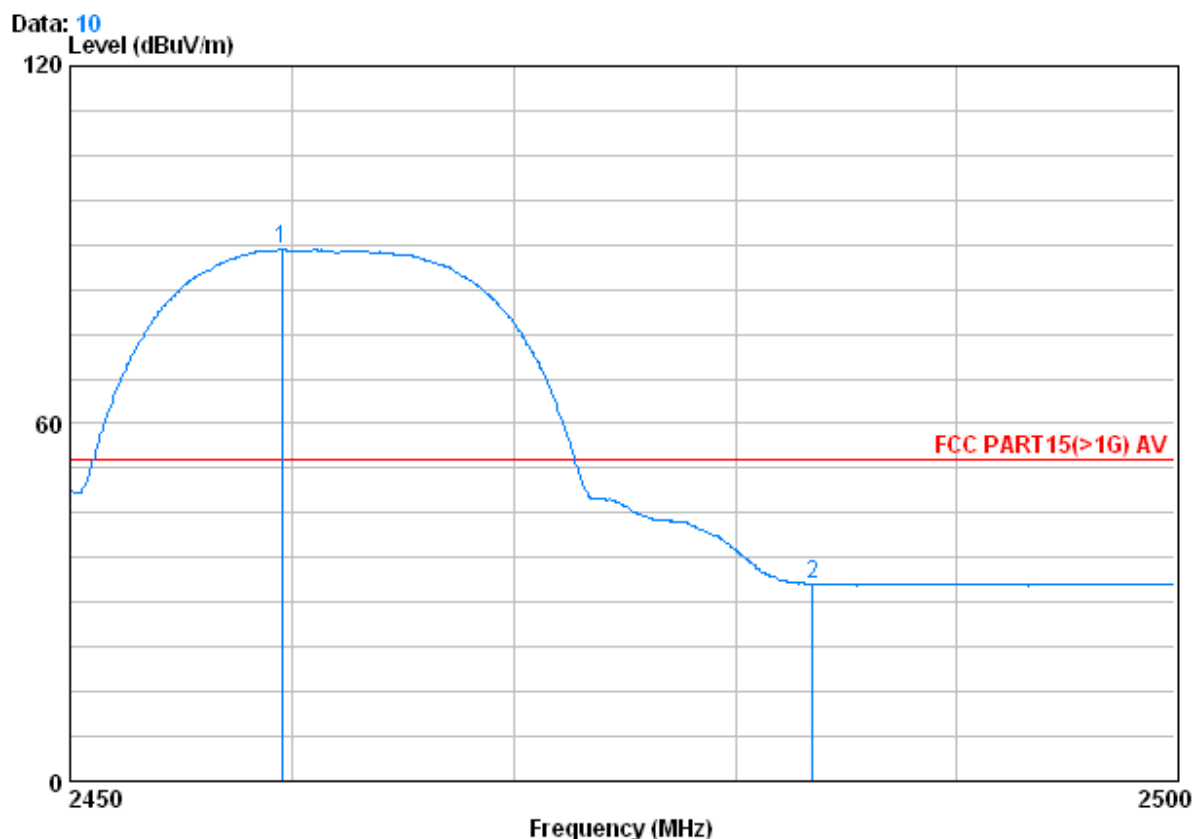


SGS-CSTC Standards Technical Services Ltd.

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

Job No. : 2365RF

Mode : 802.11b 2462MHz

	Freq	Cable Loss	Antenna Factor	Preamplifier Factor	Read Level	Level	Limit Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2459.500	3.02	32.64	39.91	93.43	89.19	54.00	35.19
2	2483.500	3.03	32.67	39.92	37.36	33.14	54.00	-20.86

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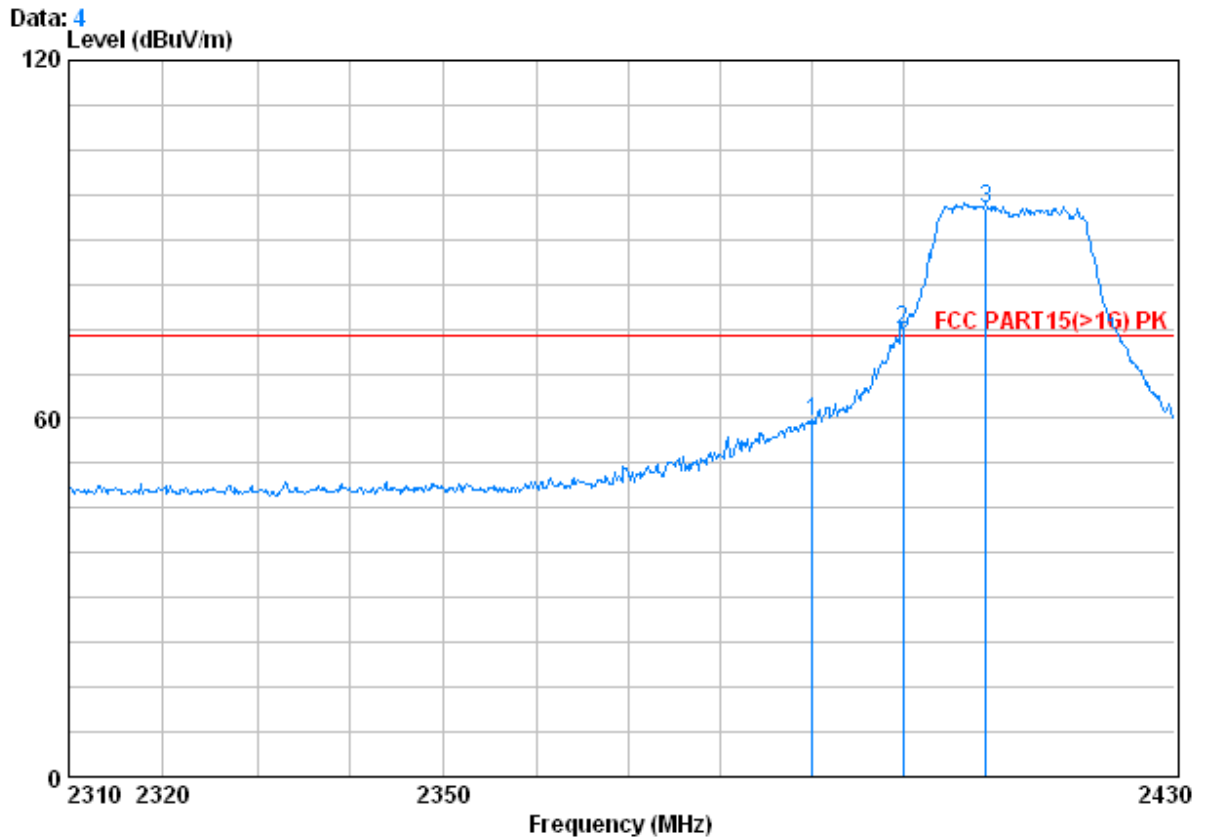


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Test mode:	802.11g	Test channel:	Lowest	Remark:	Peak	Vertical
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Condition : FCC PART15(>1G) PK 3m VERTICAL
Job No. : 2365RF
Mode : 802.11g 2412MHz

		CableAntenna Preamp			Read		Limit	Over
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2390.000	2.98	32.51	39.85	63.94	59.59	74.00	-14.41
2 X	2400.000	2.98	32.51	39.86	79.34	74.97	74.00	0.97
3 X	2409.120	2.99	32.54	39.86	99.56	95.23	74.00	21.23

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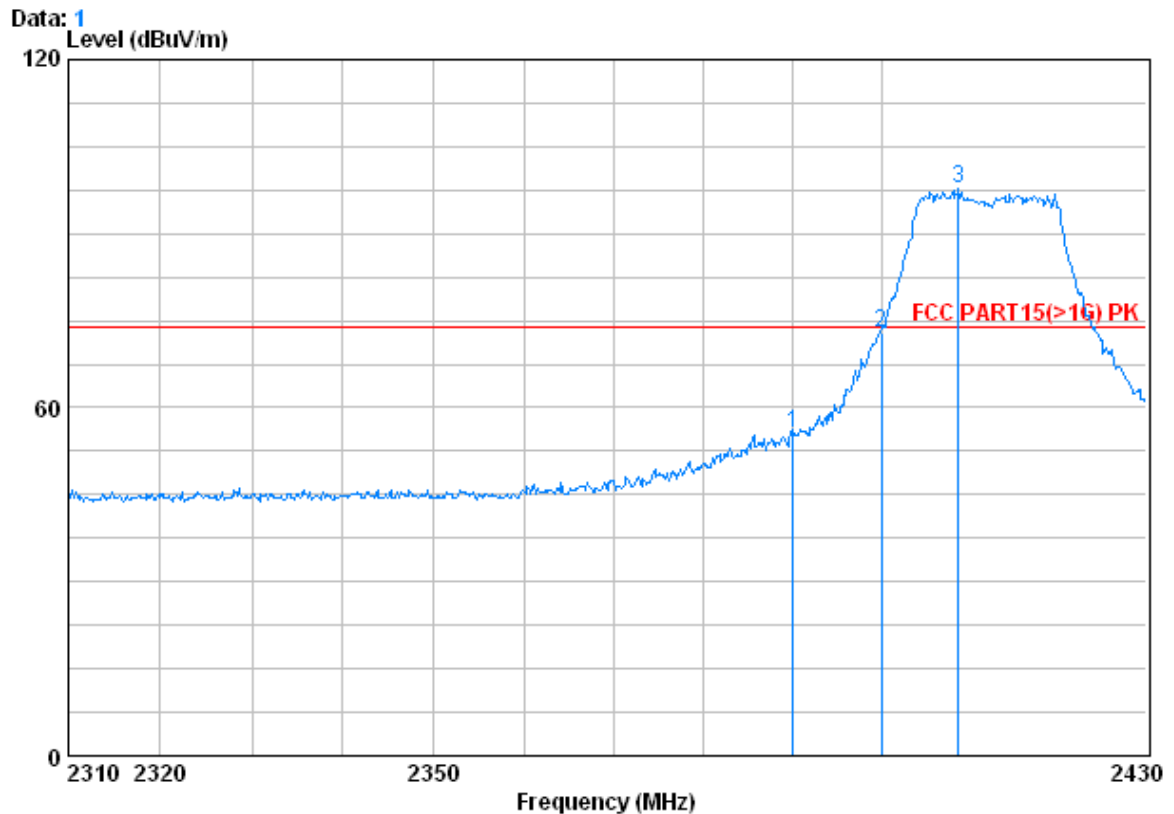


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Test mode:	802.11g	Test channel:	Lowest	Remark:	Peak	Horizontal
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Condition : FCC PART15(>1G) PK 3m HORIZONTAL

Job No. : 2365RF

Mode : 802.11g 2412MHz

	Freq	Cable	Antenna	Preamp	Read	Limit	Over
		Loss	Factor	Factor	Level	Line	Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dB
1	2390.000	2.98	32.51	39.85	59.93	74.00	-18.43
2	2400.000	2.98	32.51	39.86	77.31	74.00	-1.05
3 @	2408.640	2.99	32.54	39.86	101.95	74.00	23.63

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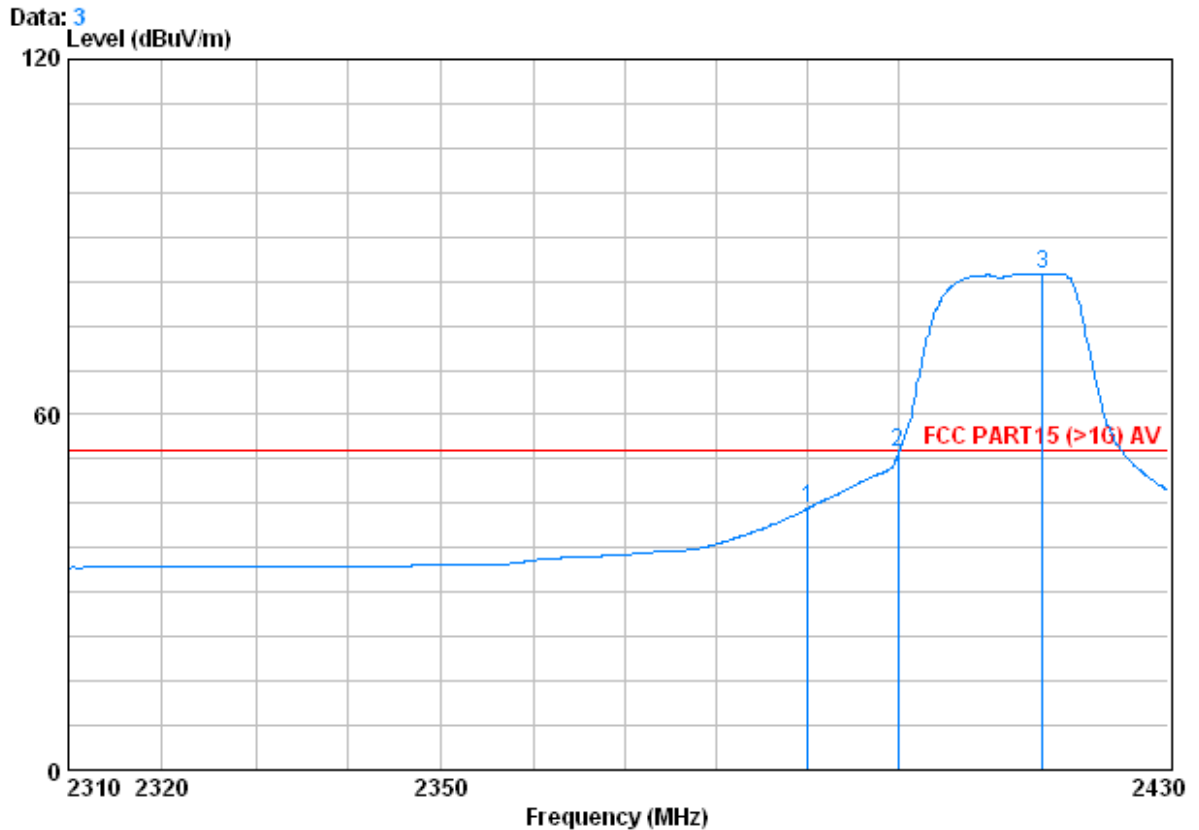


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Test mode:	802.11g	Test channel:	Lowest	Remark:	Average	Vertical
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Condition : FCC PART15 (>1G) AV 3m VERTICAL

Job No. : 2365RF

Mode : 802.11g 2412MHz

	Freq	Cable Loss	Antenna Factor	Preamplifier	Read Level	Level	Limit Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2390.000	2.98	32.51	39.85	48.65	44.30	54.00	-9.70
2	2400.000	2.98	32.51	39.86	57.95	53.58	54.00	-0.42
3	2415.960	2.99	32.54	39.88	88.21	83.87	54.00	29.87

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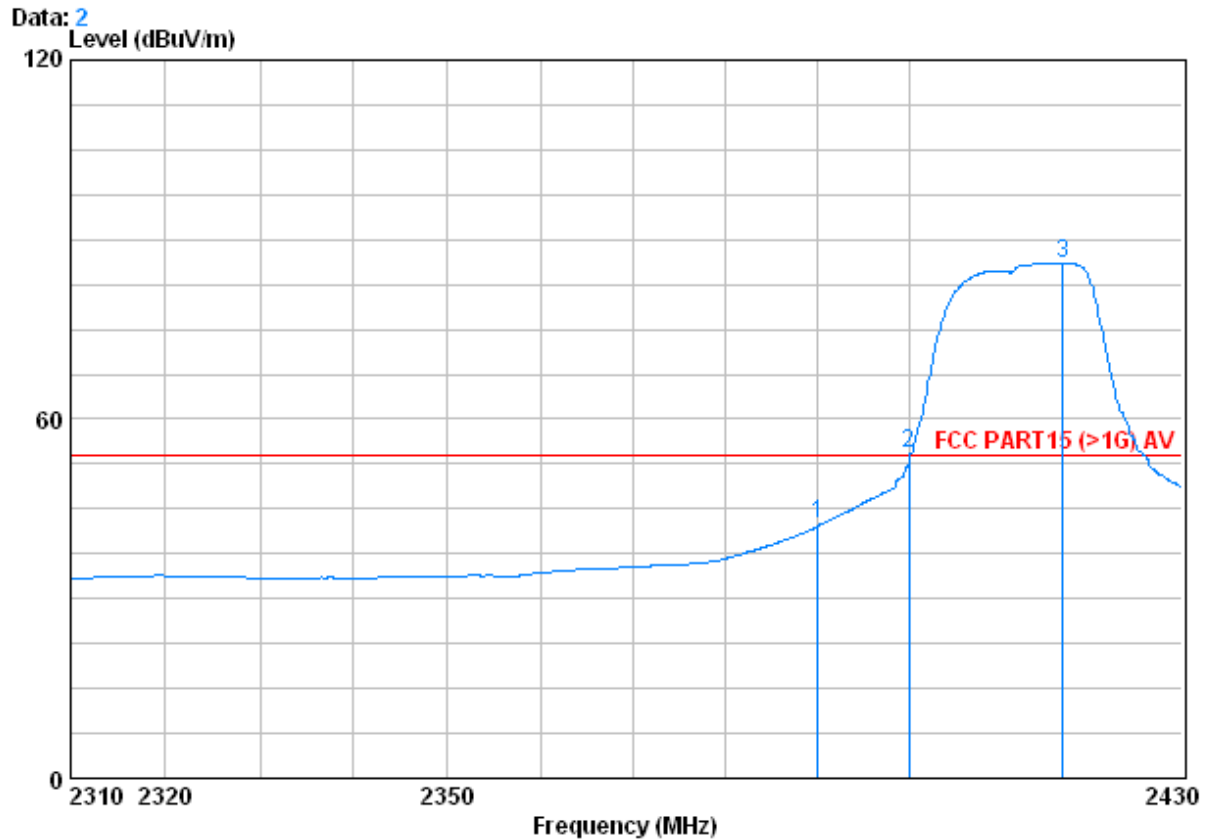


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Test mode:	802.11g	Test channel:	Lowest	Remark:	Average	Horizontal
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Condition : FCC PART15 (>1G) AV 3m HORIZONTAL

Job No. : 2365RF

Mode : 802.11g 2412MHz

		Cable	Antenna	Preamp	Read		Limit	Over
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2390.000	2.98	32.51	39.85	46.70	42.35	54.00	-11.65
2 X	2400.000	2.98	32.51	39.86	58.75	54.38	54.00	0.38
3 @	2416.800	2.99	32.54	39.88	90.25	85.91	54.00	31.91

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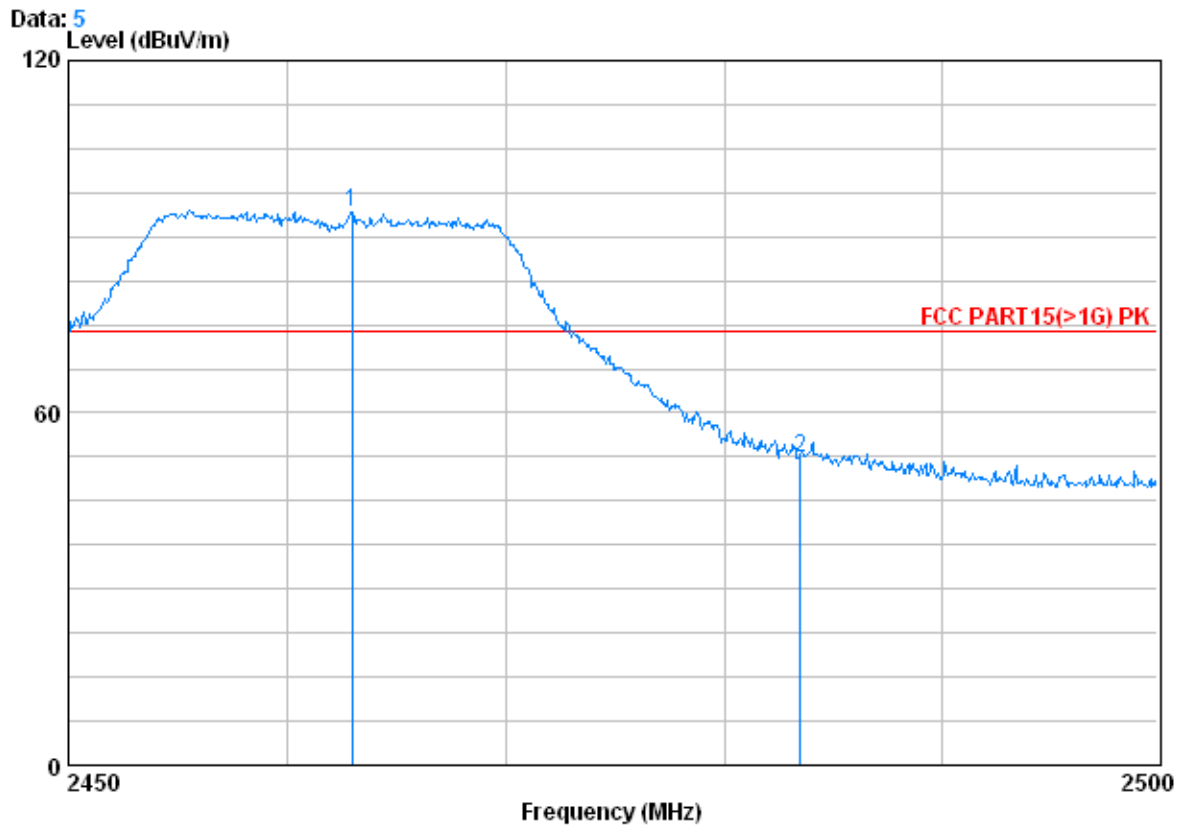


SGS-CSTC Standards Technical Services Ltd.

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

Job No. : 2365RF

Mode : 802.11g 2462MHz

		Cable	Antenna	Preamp	Read		Limit	Over
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 X	2462.950	3.02	32.64	39.91	98.48	94.24	74.00	20.24
2	2483.500	3.03	32.67	39.92	56.58	52.36	74.00	-21.64

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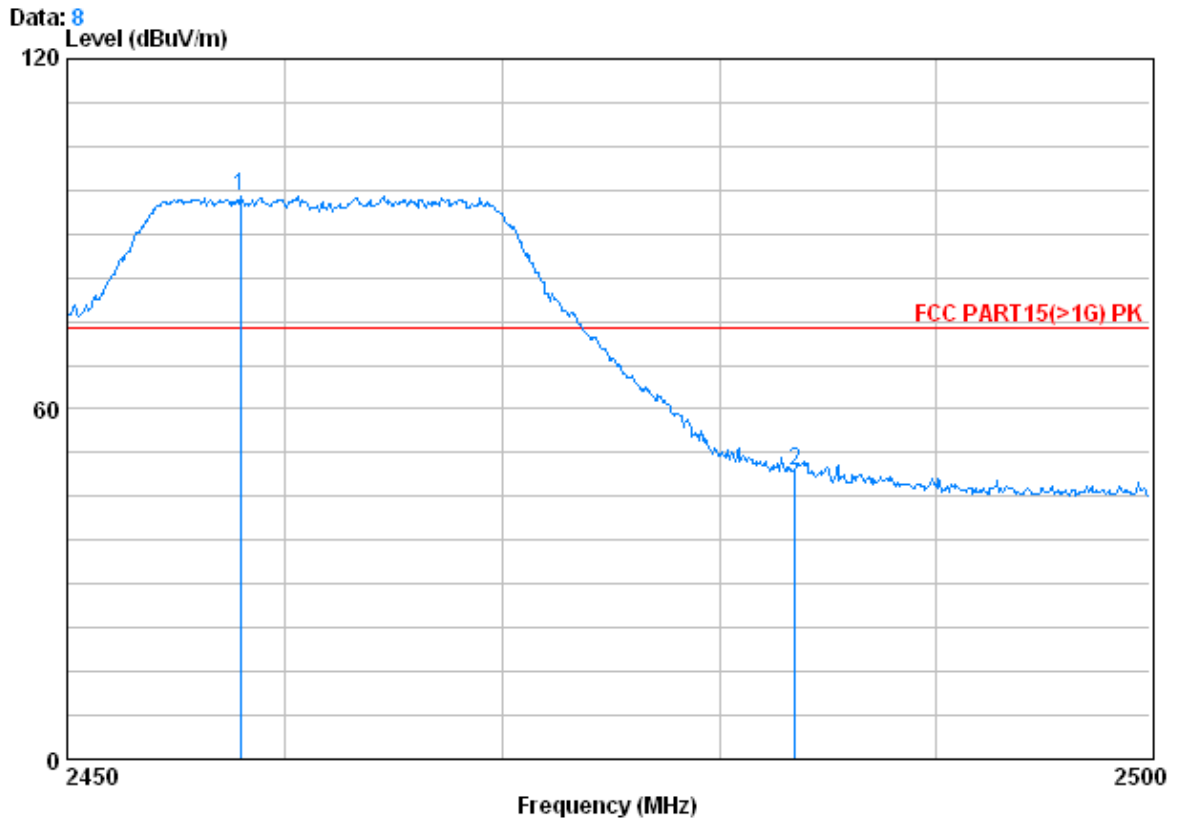


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Test mode:	802.11g	Test channel:	Highest	Remark:	Peak	Horizontal
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Condition : FCC PART15(>1G) PK 3m HORIZONTAL

Job No. : 2365RF

Mode : 802.11g 2462MHz

	Freq	Cable Loss	Antenna Factor	Preamplifier Factor	Read Level	Limit Level	Limit Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2457.950	3.02	32.64	39.91	100.77	96.53	74.00	22.53
2	2483.500	3.03	32.67	39.92	53.72	49.50	74.00	-24.50

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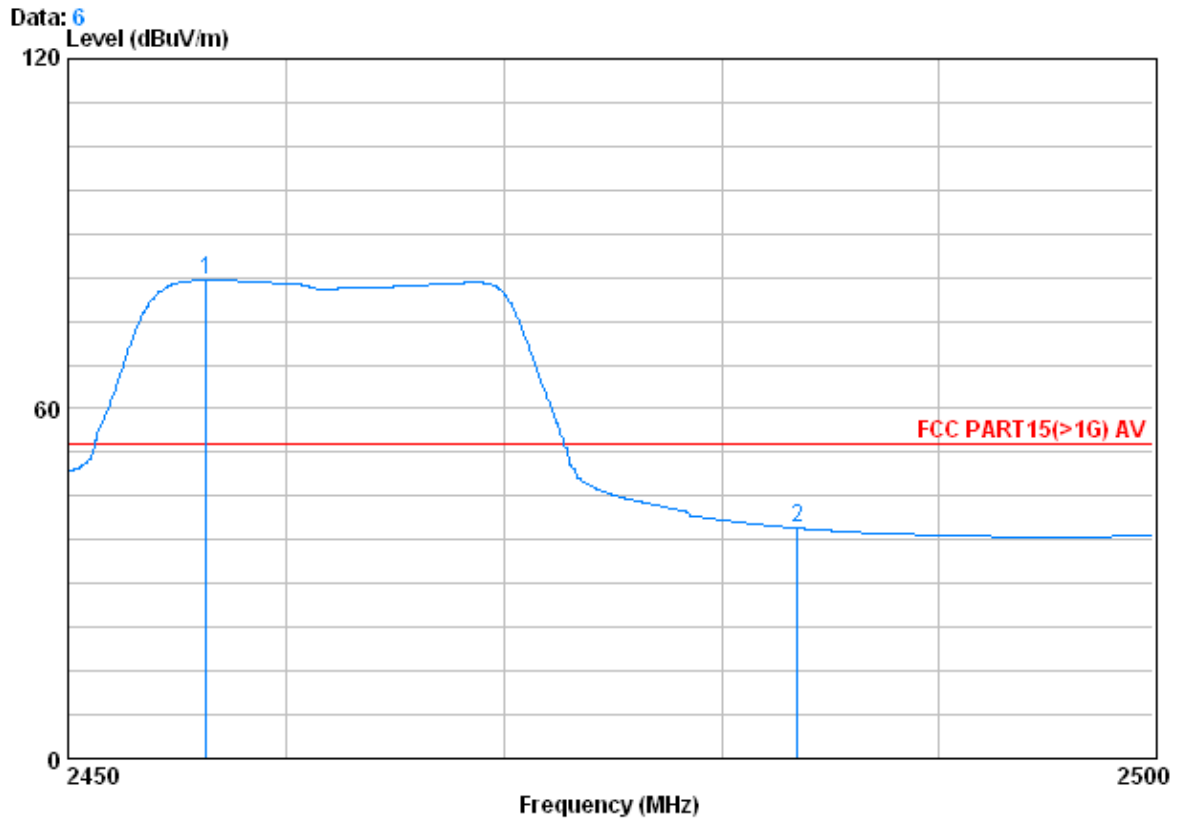


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Test mode:	802.11g	Test channel:	Highest	Remark:	Average	Vertical
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Condition : FCC PART15(>1G) AV 3m VERTICAL

Job No. : 2365RF

Mode : 802.11g 2462MHz

	Freq	Cable&Antenna Loss	Antenna Factor	Preamplifier Factor	Read Level	Limit Line	Over Limit
	MHz	dB	dB/m	dB	dBuV dBuV/m	dBuV/m	dB
1	2456.300	3.01	32.64	39.91	86.31 82.05	54.00	28.05
2	2483.500	3.03	32.67	39.92	43.75 39.53	54.00	-14.47

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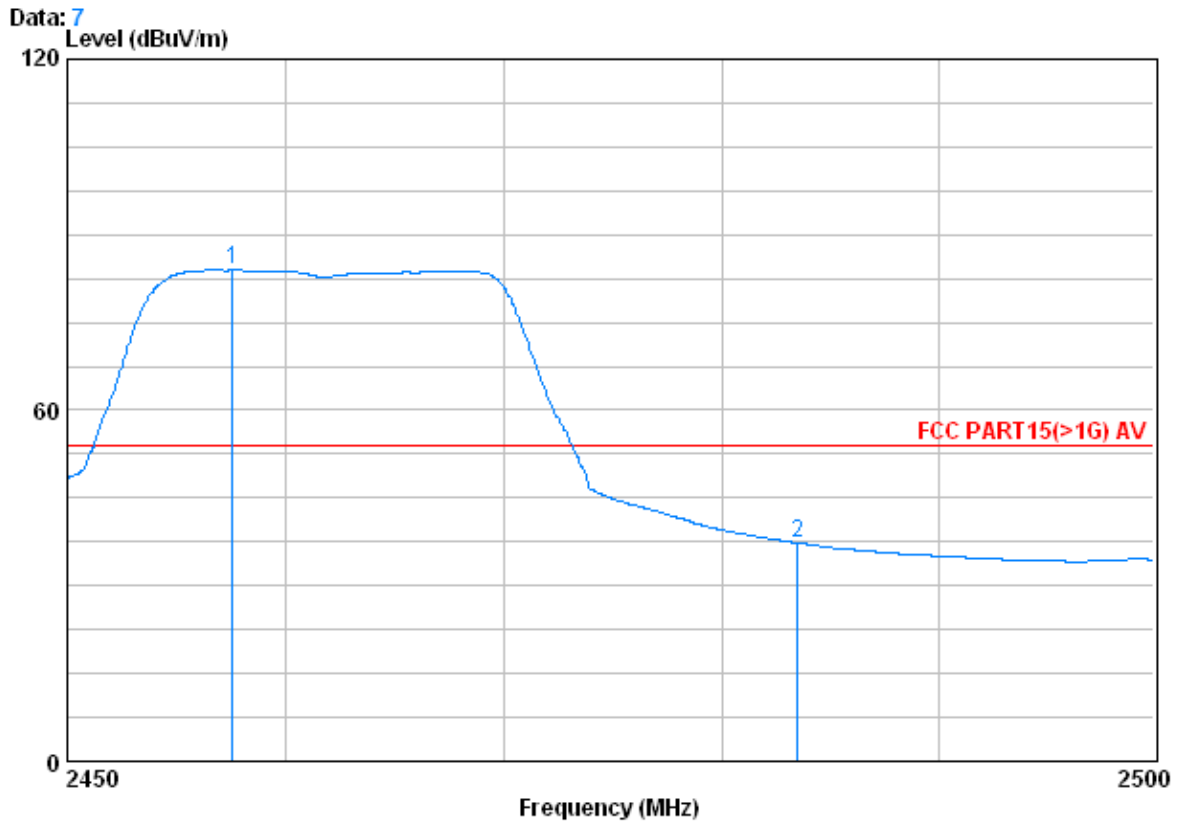


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Report No.: SZEM120500236501

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

Job No. : 2365RF

Mode : 802.11g 2462MHz

	Freq	Cable Loss	Antenna Factor	Preamplifier Factor	Read Level	Limit Level	Limit Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 @	2457.550	3.02	32.64	39.91	88.14	83.90	54.00	29.90
2	2483.500	3.03	32.67	39.92	41.52	37.30	54.00	-16.70

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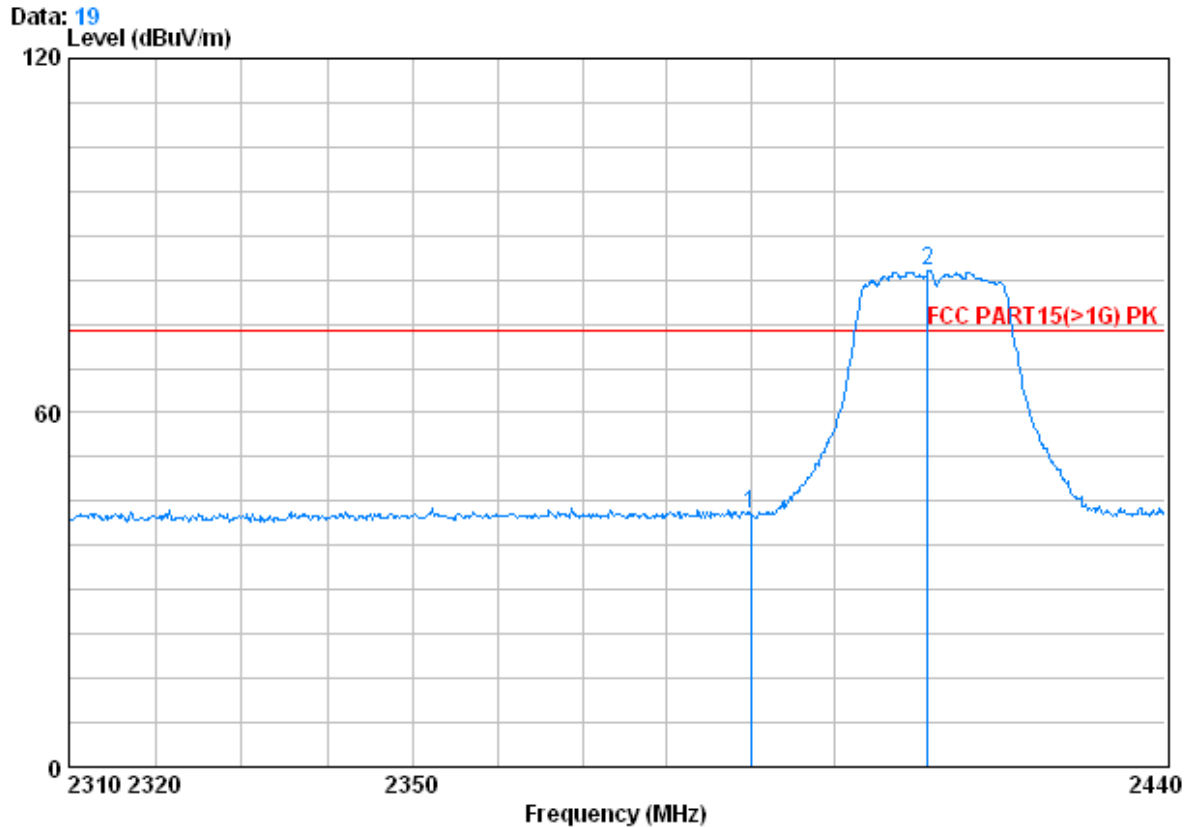


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Test mode:	802.11n(HT20)	Test channel:	Lowest	Remark:	Peak	Vertical
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Condition : FCC PART15(>1G) PK 3m VERTICAL

Job No. : 2561IT

Mode : n HT20 2412MHz

	Freq	Cable	Antenna	Preamp	Read	Limit	Over
		Loss	Factor	Factor	Level	Line	Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dB
1	2390.000	2.98	32.51	39.85	47.14	42.79	74.00 -31.21
2 @	2411.270	2.99	32.54	39.86	88.30	83.97	74.00 9.97



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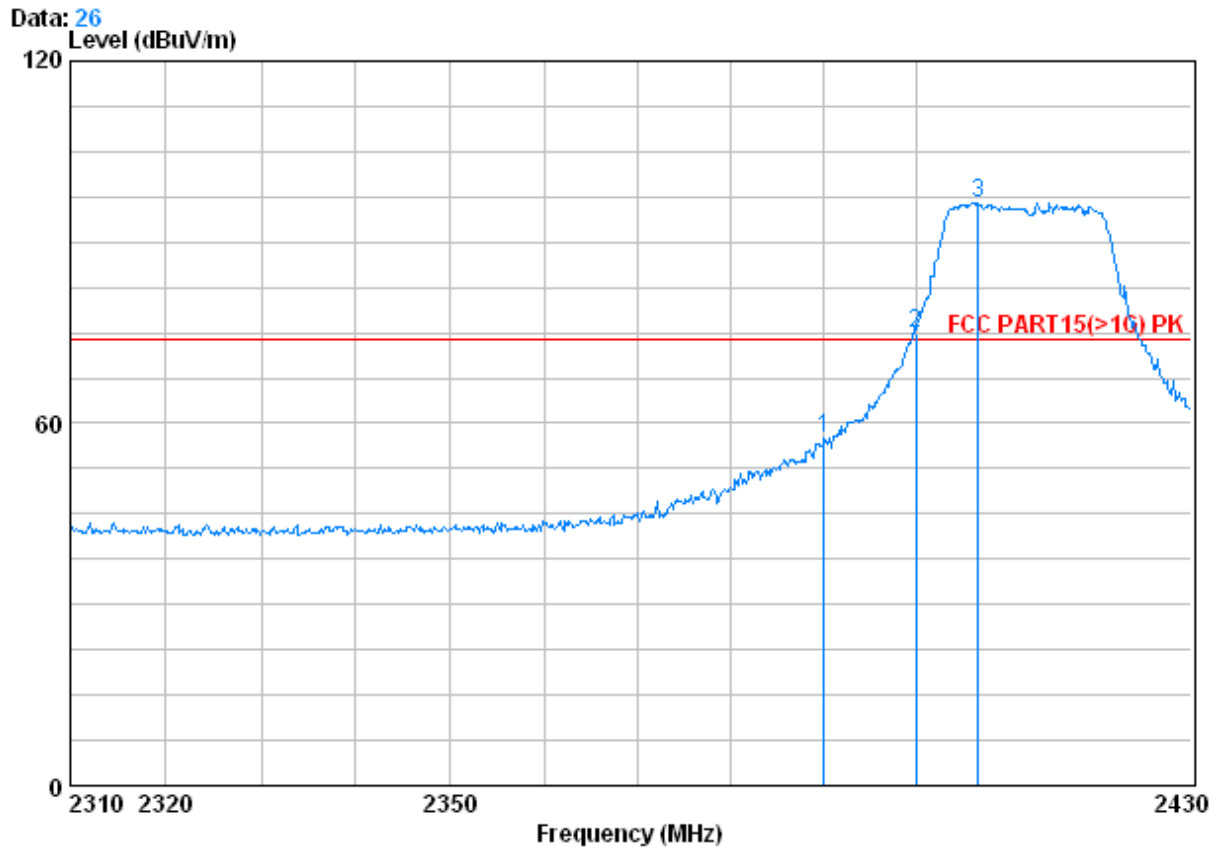


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Test mode:	802.11n(HT20)	Test channel:	Lowest	Remark:	Peak	Horizontal
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Condition : FCC PART15(>1G) PK 3m HORIZONTAL

Job No. : 2365RF

Mode : 802.11n HT20 2412MHz

		CableAntenna Preamp			Read		Limit	Over
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2390.000	2.98	32.51	39.85	61.79	57.43	74.00	-16.57
2 X	2400.000	2.98	32.51	39.86	79.25	74.88	74.00	0.88
3 @	2406.720	2.99	32.54	39.86	100.95	96.62	74.00	22.62

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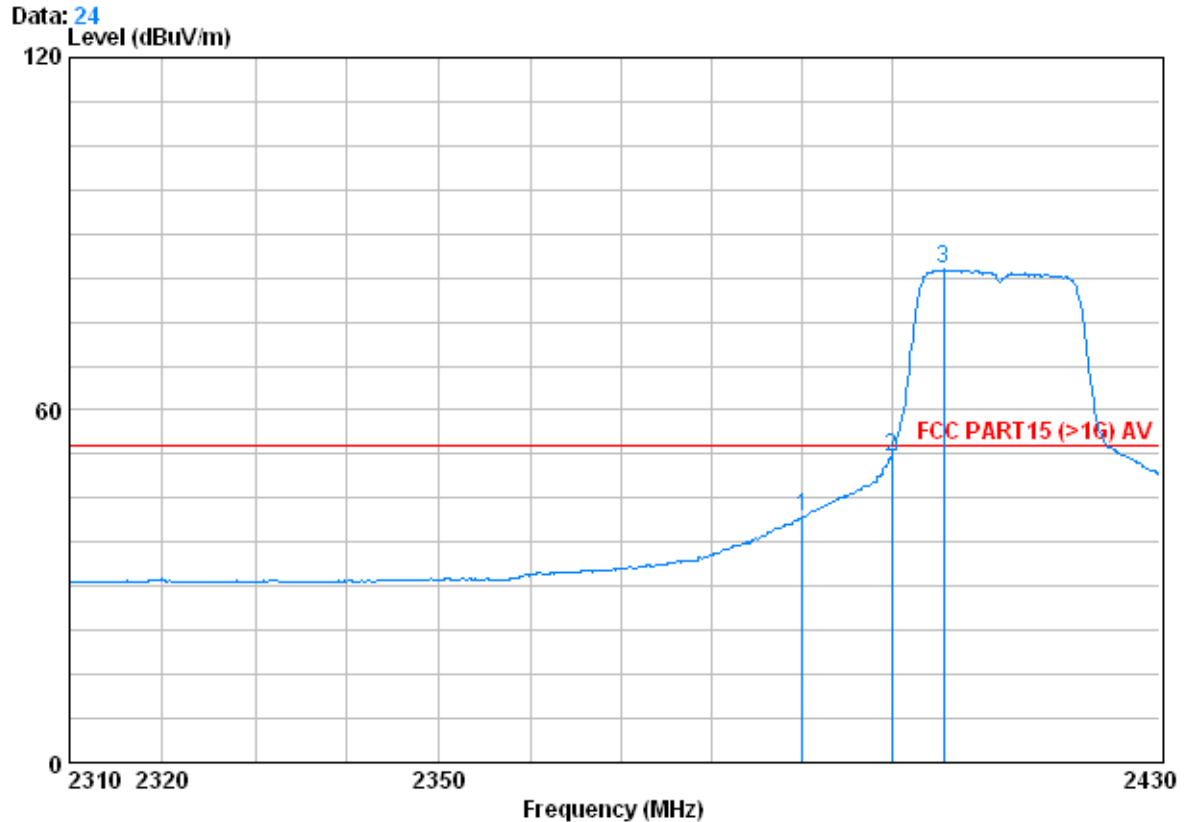


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Test mode:	802.11n(HT20)	Test channel:	Lowest	Remark:	Average	Vertical
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Condition : FCC PART15 (>1G) AV 3m VERTICAL

Job No. : 2365RF

Mode : 802.11n HT20 2412MHz

	Freq	Cable Loss	Antenna Factor	Preamplifier Factor	Read Level	Level	Limit Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2390.000	2.98	32.51	39.85	46.19	41.84	54.00	-12.16
2	2400.000	2.98	32.51	39.86	56.24	51.87	54.00	-2.13
3 @	2405.760	2.99	32.54	39.86	88.24	83.91	54.00	29.91

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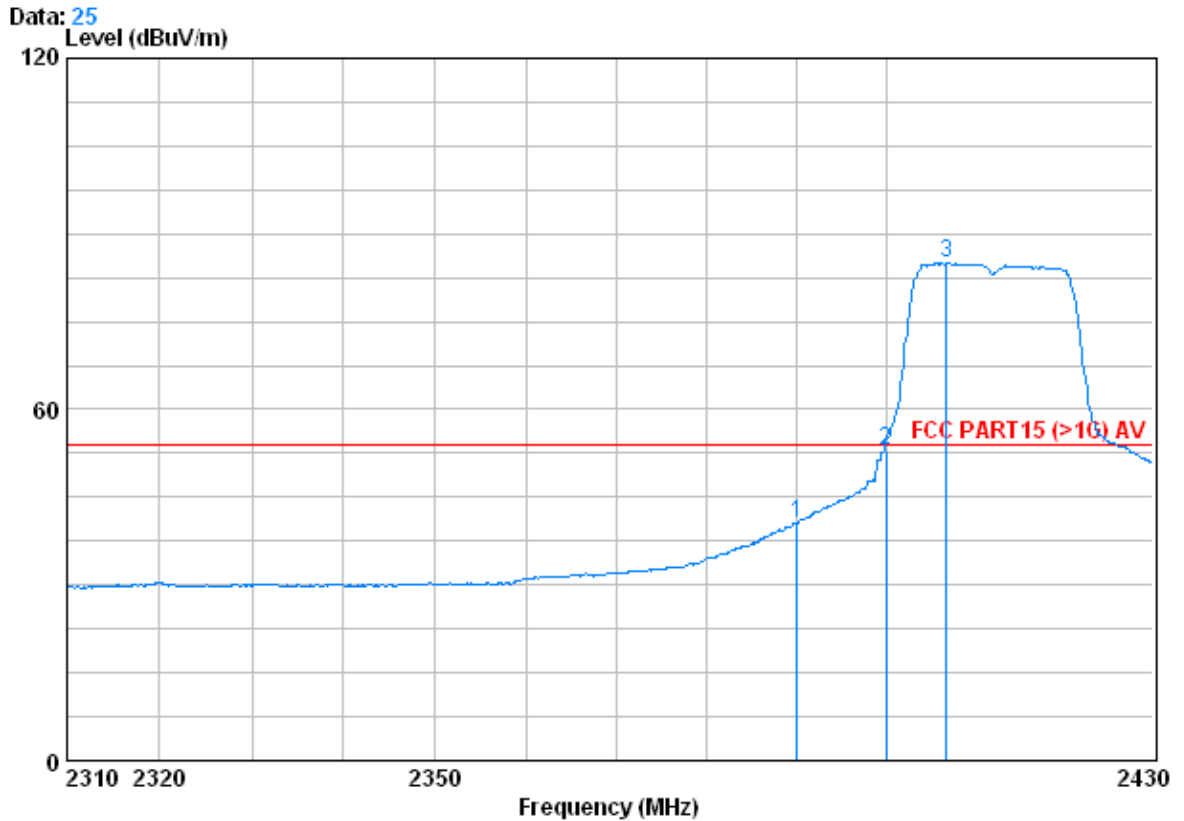


SGS-CSTC Standards Technical Services Ltd.

Report No.: SZEM120500236501

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

Job No. : 2365RF

Mode : 802.11n HT20 2412MHz

	Freq	Cable Loss	Antenna Factor	Preamp Factor	Read Level	Level	Limit	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2390.000	2.98	32.51	39.85	44.86	40.50	54.00	-13.50
2	2400.000	2.98	32.51	39.86	57.30	52.93	54.00	-1.07
3 @	2406.720	2.99	32.54	39.86	89.30	84.97	54.00	30.97

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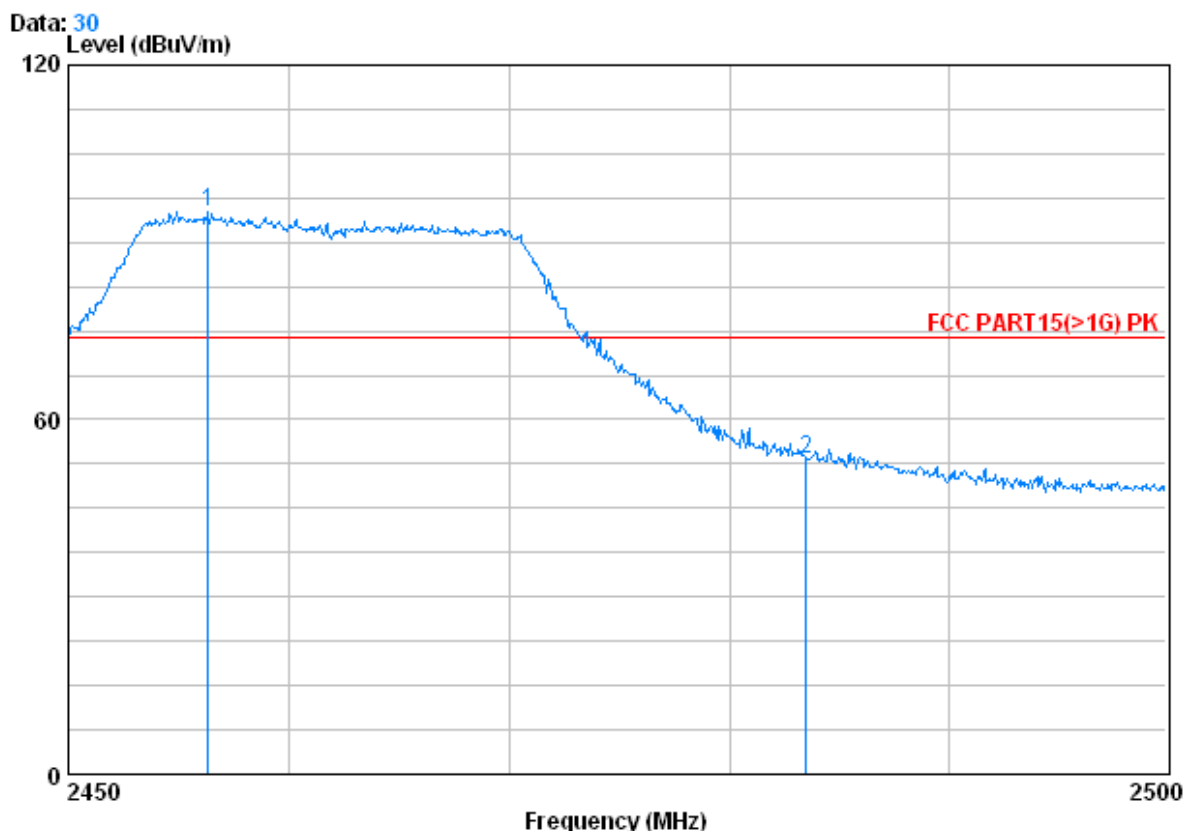


SGS-CSTC Standards Technical Services Ltd.

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Test mode:	802.11n(HT20)	Test channel:	Highest	Remark:	Peak	Vertical
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Condition : FCC PART15(>1G) PK 3m VERTICAL
Job No. : 2365RF
Mode : 802.11n HT20 2462MHz

	Freq	Cable&Antenna Loss	Antenna Factor	Preamplifier Factor	Read Level	Level	Limit	Over
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 X	2456.300	3.01	32.64	39.91	99.56	95.30	74.00	21.30
2	2483.500	3.03	32.67	39.92	57.45	53.23	74.00	-20.77

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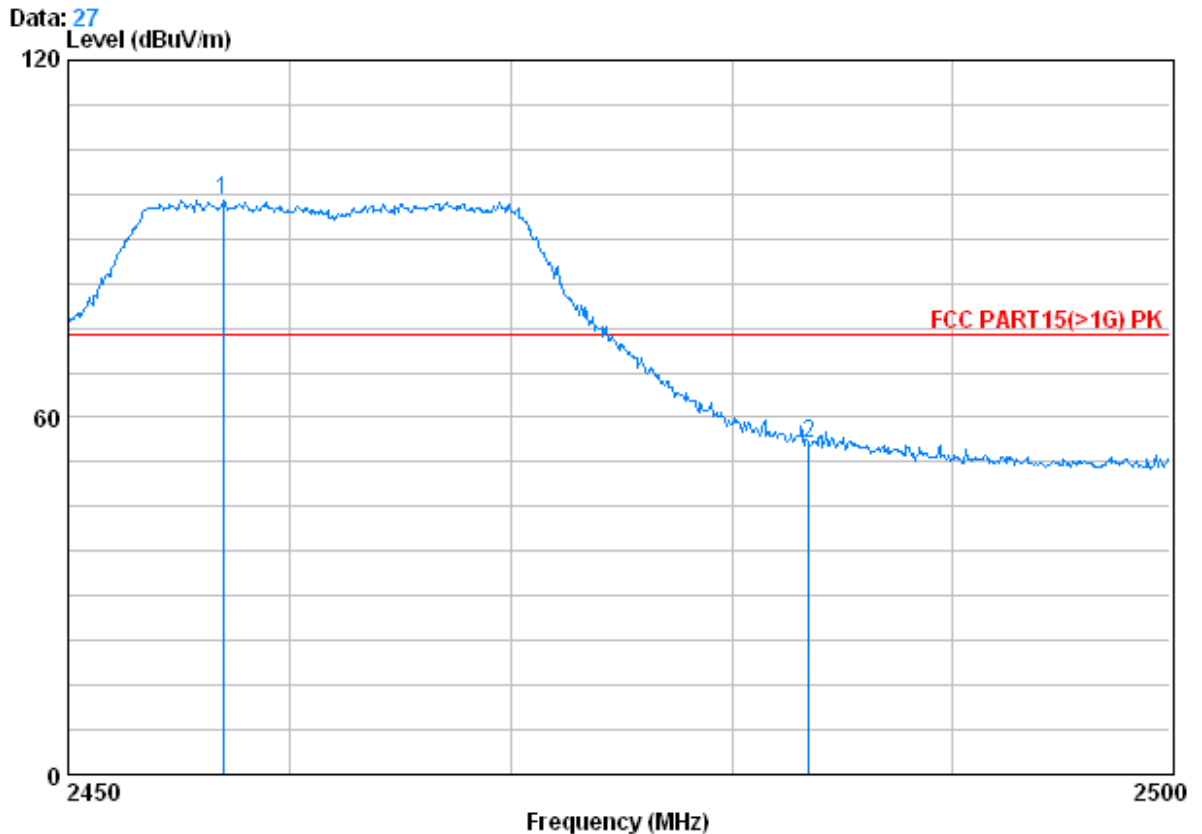


SGS-CSTC Standards Technical Services Ltd.

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

Job No. : 2365RF

Mode : 802.11n HT20 2462MHz

		Cable	Antenna	Preamp	Read		Limit	Over
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2456.950	3.01	32.64	39.91	100.85	96.60	74.00	22.60
2	2483.500	3.03	32.67	39.92	59.90	55.68	74.00	-18.32

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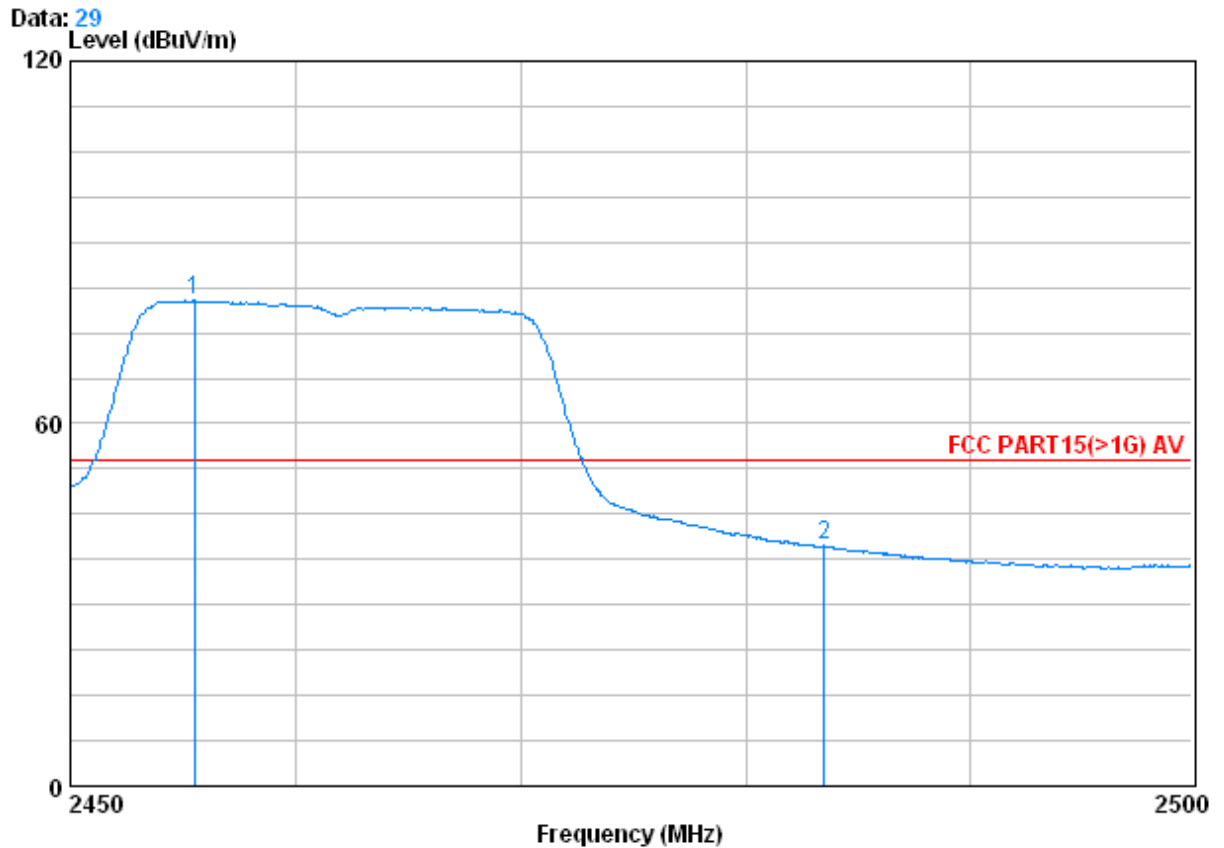


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Test mode:	802.11n(HT20)	Test channel:	Highest	Remark:	Average	Vertical
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Condition : FCC PART15(>1G) AV 3m VERTICAL

Job No. : 2365RF

Mode : 802.11n HT20 2462MHz

	Freq	Cable	Antenna	Preamp	Read	Limit	Over
		Loss	Factor	Factor	Level	Line	Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dB
1	2455.500	3.01	32.64	39.91	84.57	80.31	54.00 26.31
2	2483.500	3.03	32.67	39.92	43.96	39.74	54.00 -14.26

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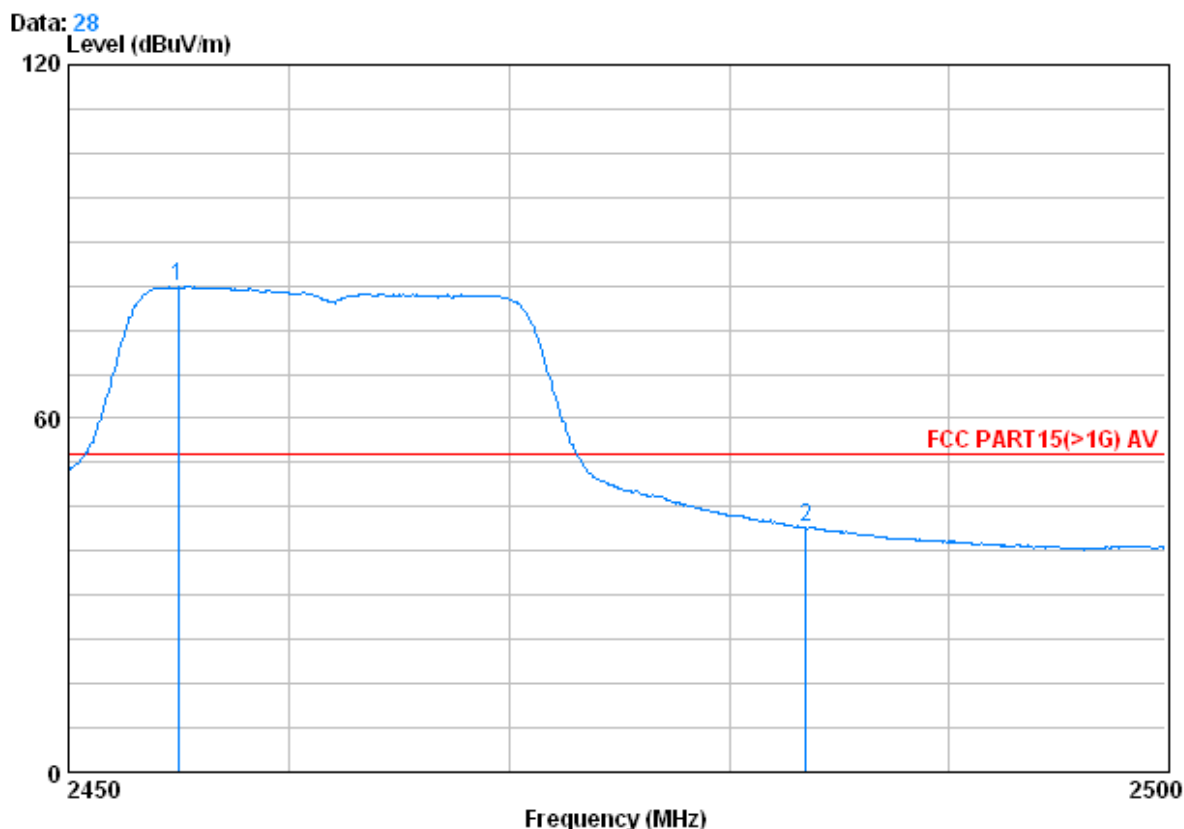


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Test mode:	802.11n(HT20)	Test channel:	Highest	Remark:	Average	Horizontal
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Condition : FCC PART15(>1G) AV 3m HORIZONTAL

Job No. : 2365RF

Mode : 802.11n HT20 2462MHz

	Freq	Cable	Antenna	Preamp	Read	Limit	Over
		Loss	Factor	Factor	Level	Line	Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dB
1 @	2454.950	3.01	32.64	39.91	86.66	82.40	54.00 28.40
2	2483.500	3.03	32.67	39.92	45.70	41.48	54.00 -12.52

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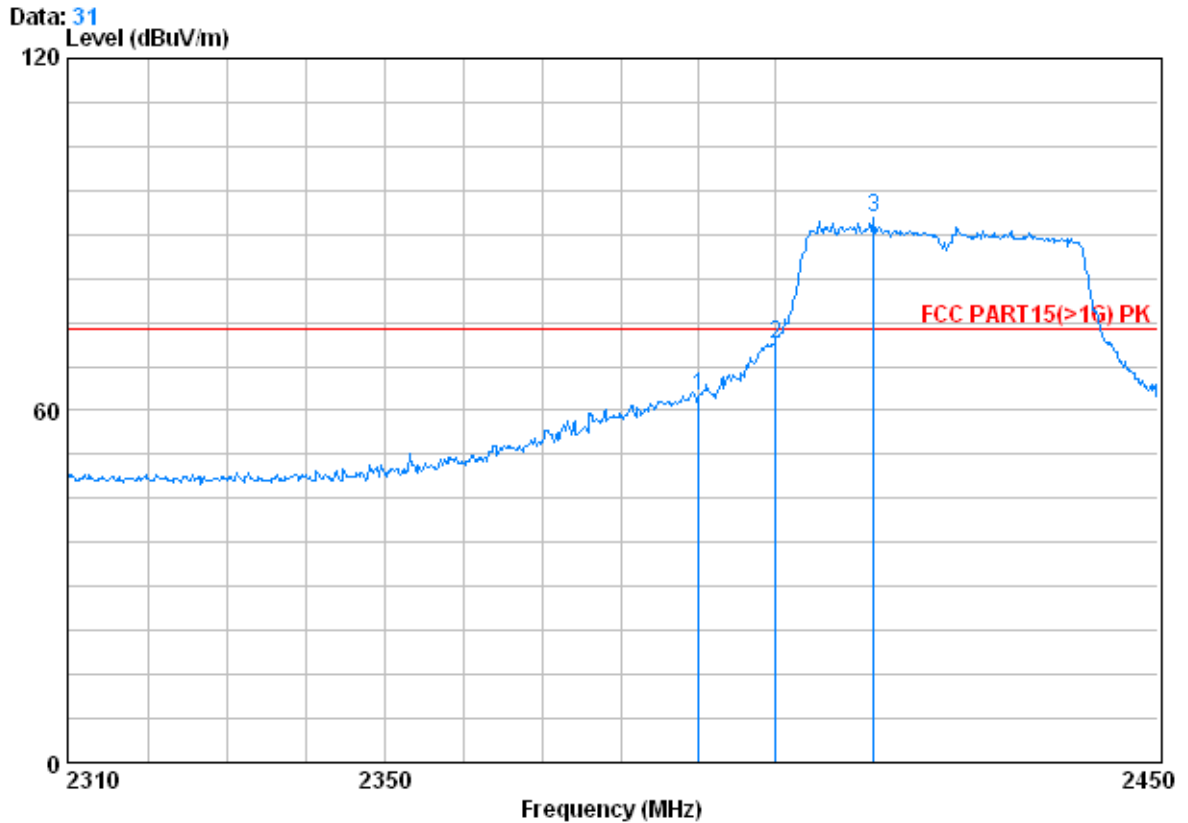


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Test mode:	802.11n(HT40)	Test channel:	Lowest	Remark:	Peak	Vertical
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Condition : FCC PART15(>1G) PK 3m VERTICAL

Job No. : 2365ET

Mode : 802.11n HT40 2422MHz

	Freq	Cable Loss	Antenna Factor	Preamp Factor	Read Level	Level	Limit	Over
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2390.000	2.98	32.51	39.85	66.89	62.53	74.00	-11.47
2	2400.000	2.98	32.51	39.86	75.53	71.16	74.00	-2.84
3	2412.760	2.99	32.54	39.86	97.11	92.78	74.00	18.78

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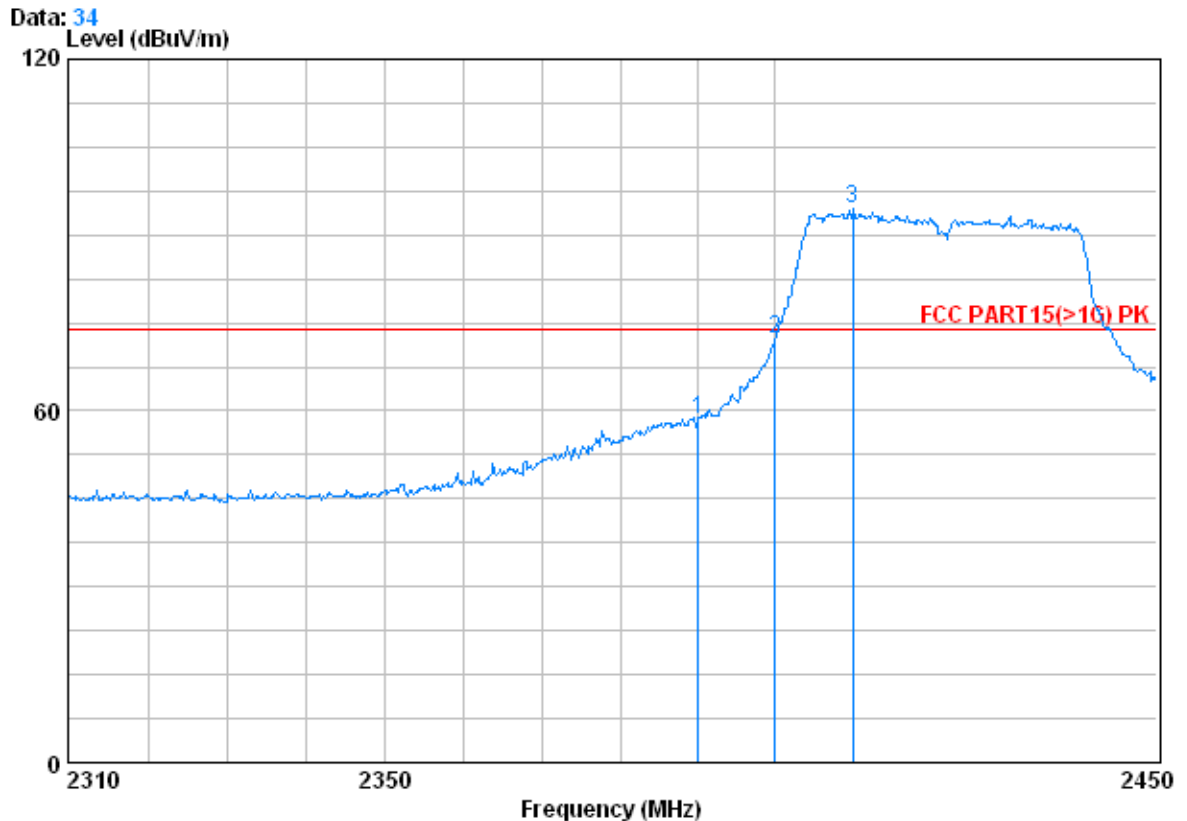


SGS-CSTC Standards Technical Services Ltd.

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

Job No. : 2365ET

Mode : 802.11n HT40 2422MHz

	Freq	Cable	Antenna	Preamp	Read	Limit	Over
		Loss	Factor	Factor	Level	Line	Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dB
1	2390.000	2.98	32.51	39.85	63.02	58.66	74.00 -15.34
2	2400.000	2.98	32.51	39.86	76.55	72.19	74.00 -1.81
3 0	2410.100	2.99	32.54	39.86	98.87	94.54	74.00 20.54

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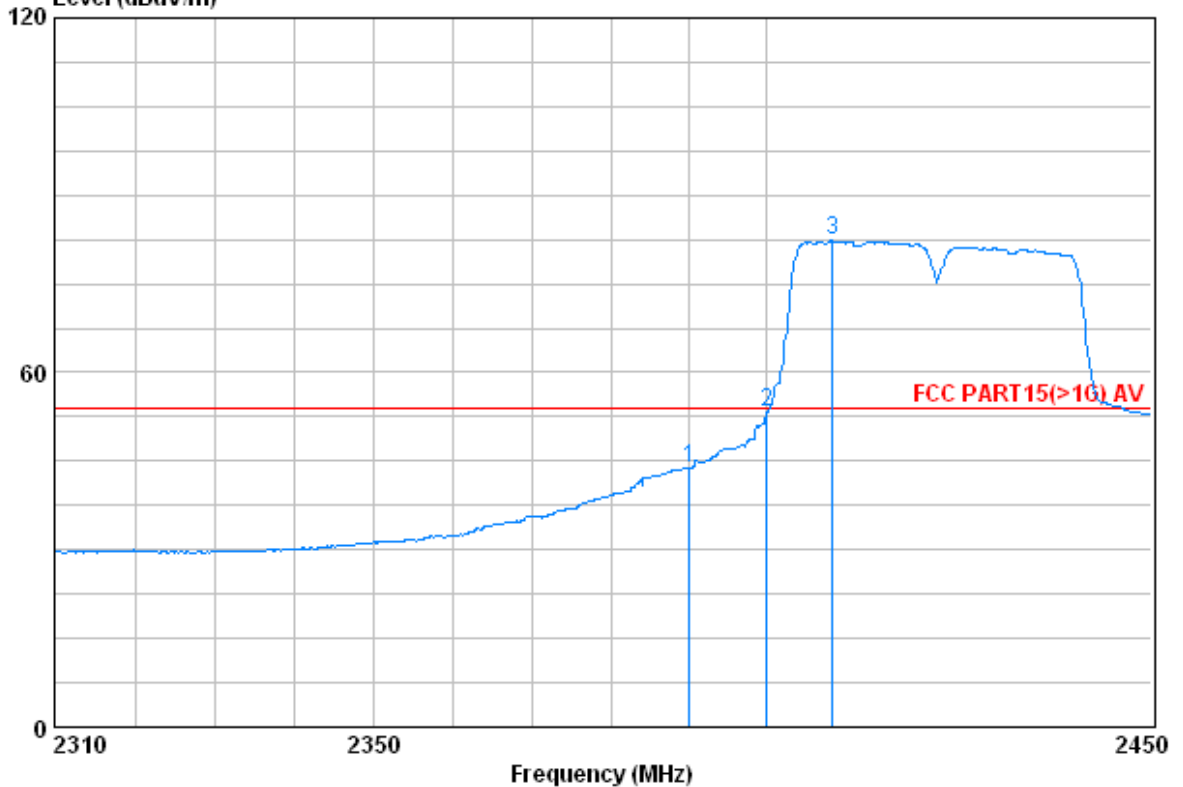
SGS-CSTC Standards Technical Services Ltd.

Report No.: SZEM120500236501

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Test mode:	802.11n(HT40)	Test channel:	Lowest	Remark:	Average	Vertical
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Data: 32
Level (dBuV/m)



Condition : FCC PART15(>1G) AV 3m VERTICAL

Job No. : 2365ET

Mode : 802.11n HT40 2422MHz

	Freq	Cable	Antenna	Preamp	Read	Limit	Over
		Loss	Factor	Factor	Level	Line	Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dB
1	2390.000	2.98	32.51	39.85	48.06	43.71	54.00 -10.29
2	2400.000	2.98	32.51	39.86	57.56	53.20	54.00 -0.80
3	2408.420	2.99	32.54	39.86	86.62	82.29	54.00 28.29



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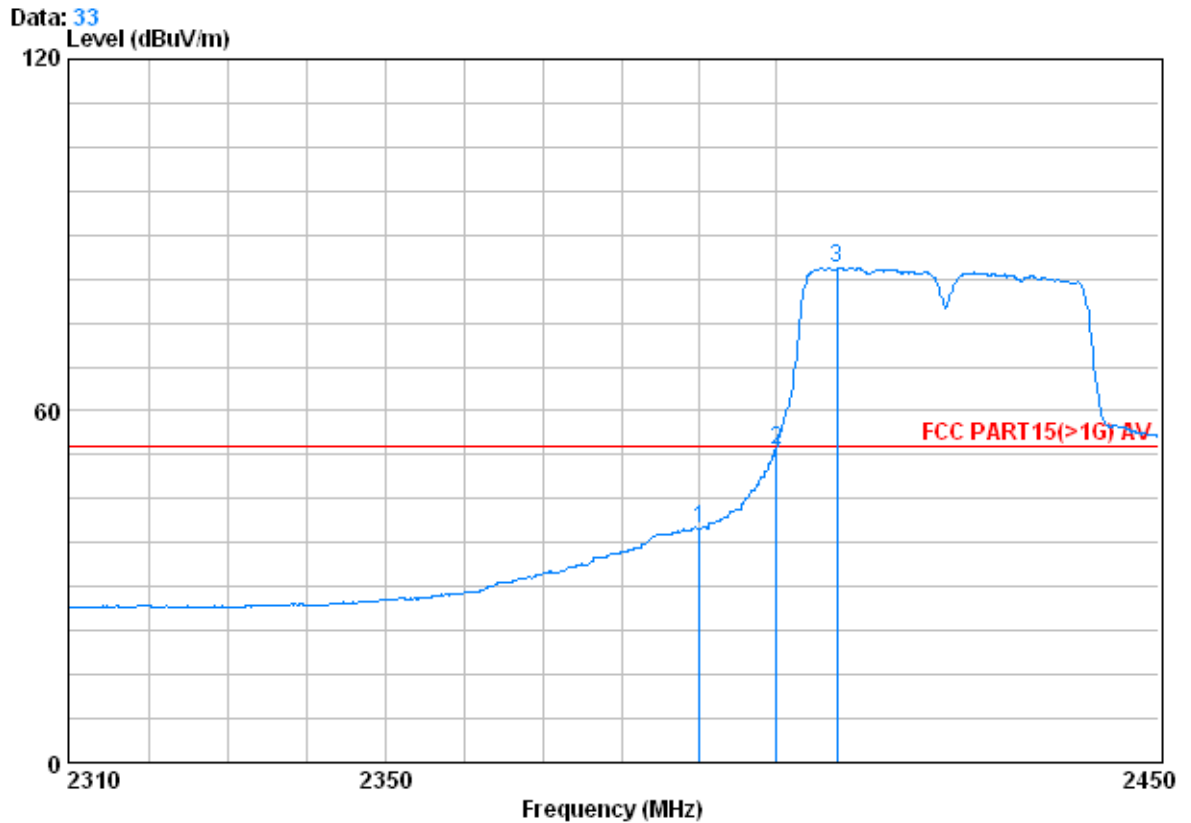


SGS-CSTC Standards Technical Services Ltd.

Report No.: SZEM120500236501

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

Job No. : 2365ET

Mode : 802.11n HT40 2422MHz

	Freq	Cable	Antenna	Preamp	Read	Limit	Over
		Loss	Factor	Factor	Level	Line	Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dB
1	2390.000	2.98	32.51	39.85	44.30	39.94	54.00 -14.06
2	2400.000	2.98	32.51	39.86	57.64	53.28	54.00 -0.72
3 @	2407.860	2.99	32.54	39.86	88.77	84.44	54.00 30.44

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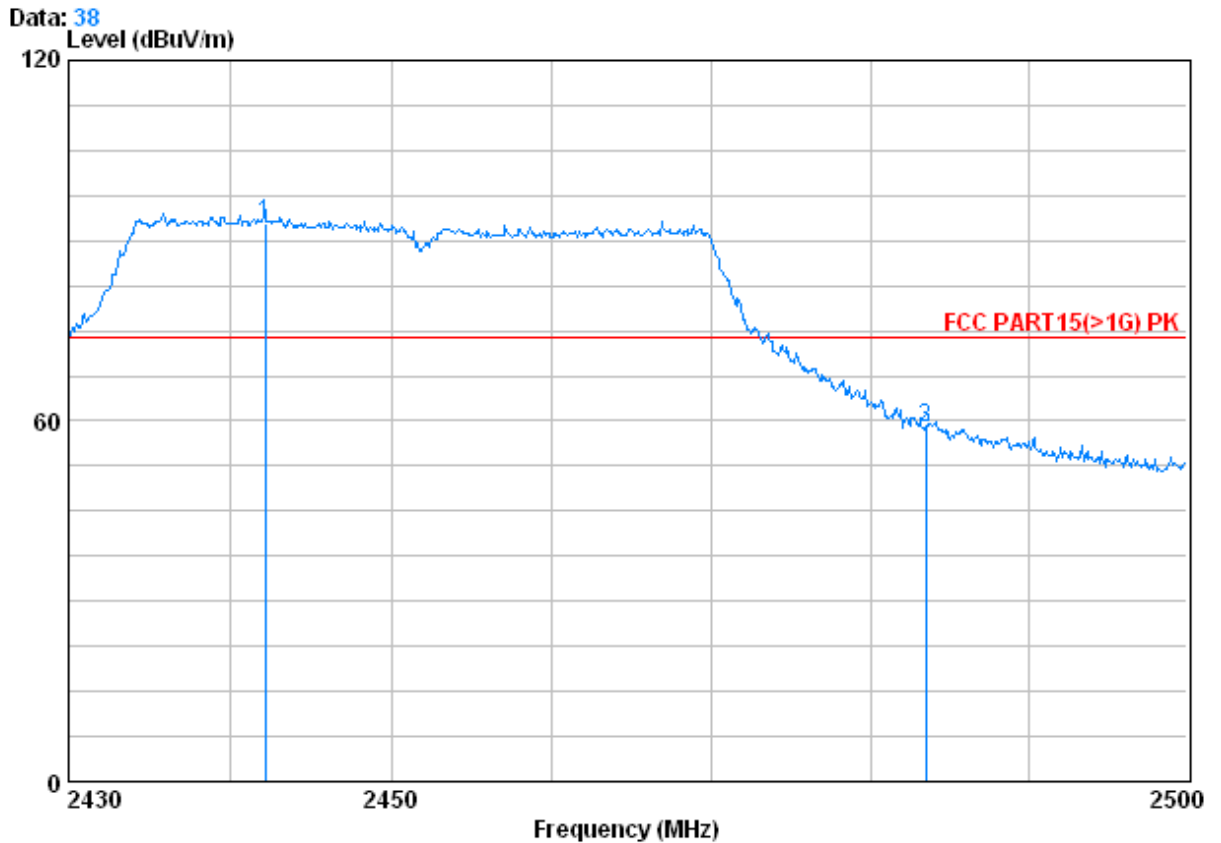


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Test mode:	802.11n(HT40)	Test channel:	Highest	Remark:	Peak	Vertical
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Condition : FCC PART15(>1G) PK 3m VERTICAL
Job No. : 2366ET
Mode : 802.11n HT40 2452MHz

		Cable&Antenna		Preampl	Read		Limit	Over
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 @	2442.180	3.01	32.61	39.89	97.27	93.00	74.00	19.00
2	2483.480	3.03	32.67	39.92	63.18	58.96	74.00	-15.04
3	2483.500	3.03	32.67	39.92	63.18	58.96	74.00	-15.04

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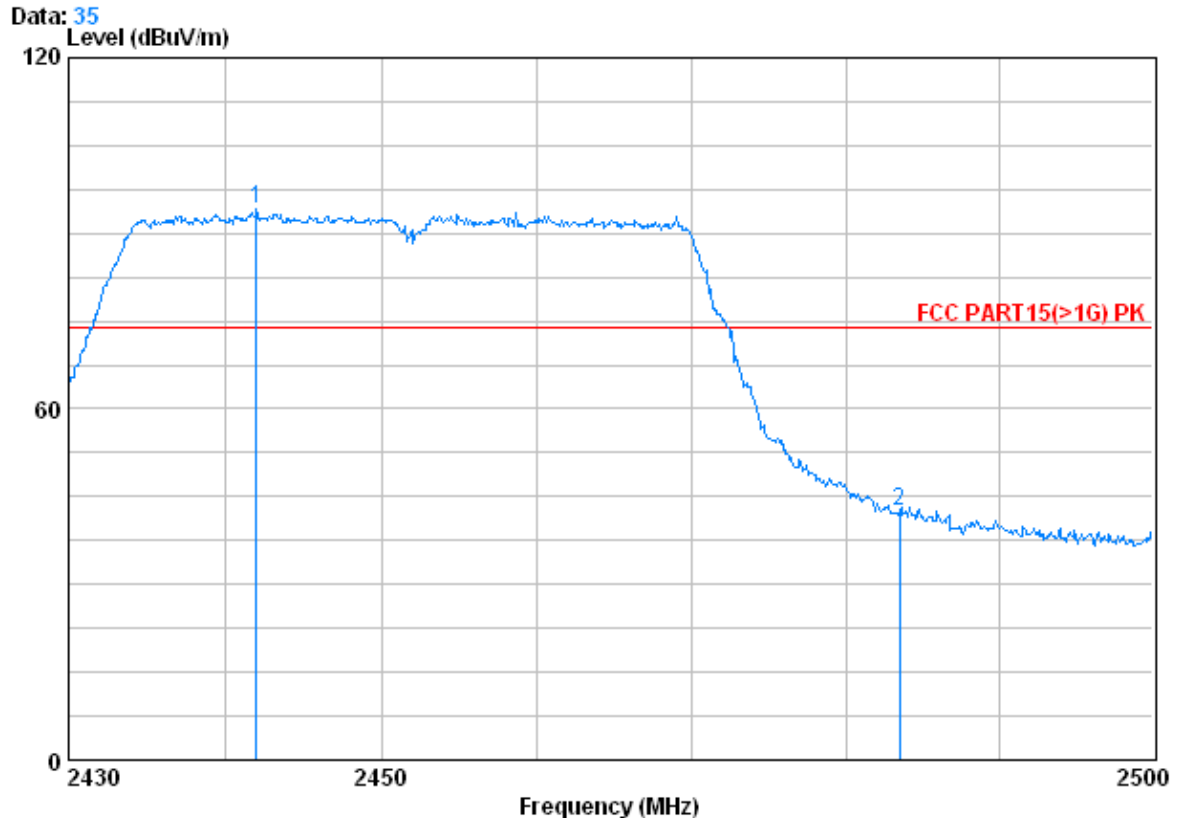


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Test mode:	802.11n(HT40)	Test channel:	Highest	Remark:	Peak	Horizontal
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Condition : FCC PART15(>1G) PK 3m HORIZONTAL

Job No. : 2365ET

Mode : 802.11n HT40 2452MHz

	Freq	Cable Loss	Antenna Factor	Preamp Factor	Read Level	Level	Limit	Over
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2441.970	3.01	32.61	39.89	98.52	94.25	74.00	20.25
2	2483.500	3.03	32.67	39.92	46.82	42.60	74.00	-31.40

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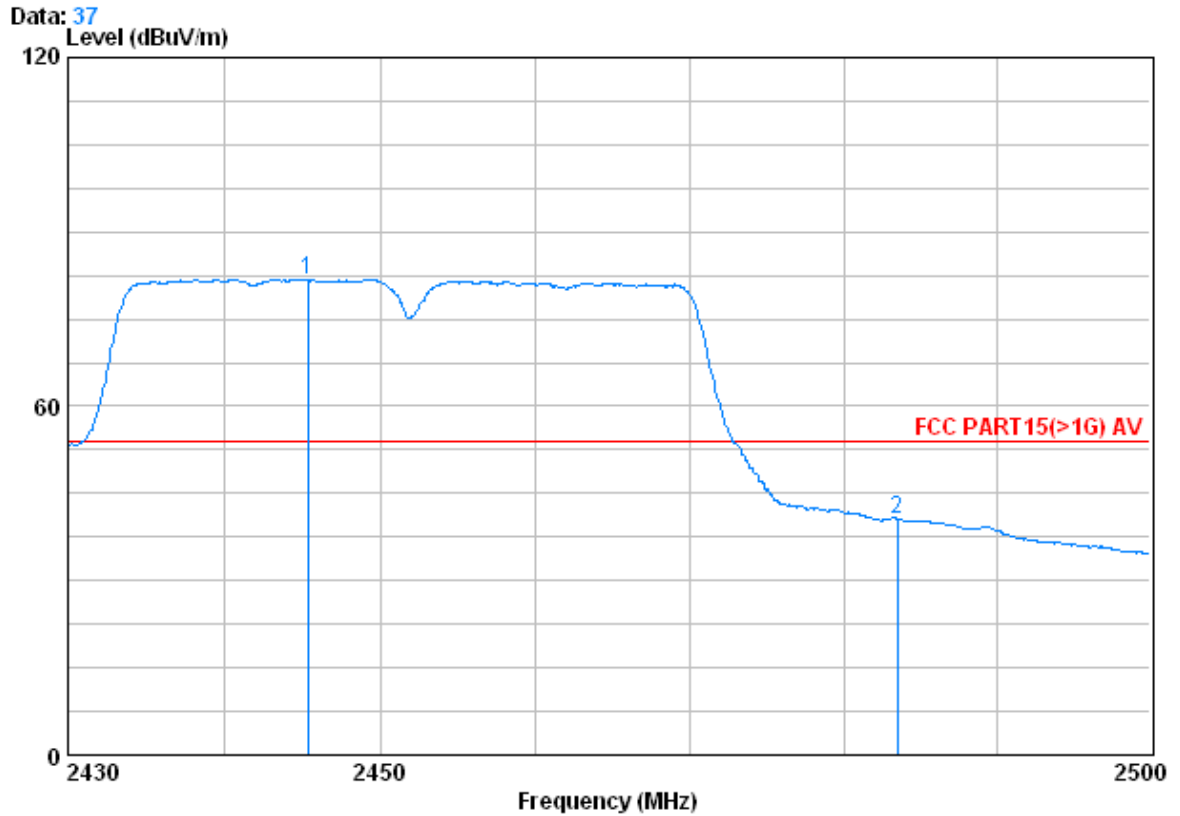


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Test mode:	802.11n(HT40)	Test channel:	Highest	Remark:	Average	Vertical
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Condition : FCC PART15(>1G) AV 3m VERTICAL

Job No. : 2366ET

Mode : 802.11n HT40 2452MHz

	Freq	Cable Loss	Antenna Factor	Preamplifier Factor	Read Level	Limit Level	Limit Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 @	2445.330	3.01	32.61	39.89	86.18	81.90	54.00	27.90
2	2483.500	3.03	32.67	39.92	44.87	40.65	54.00	-13.35

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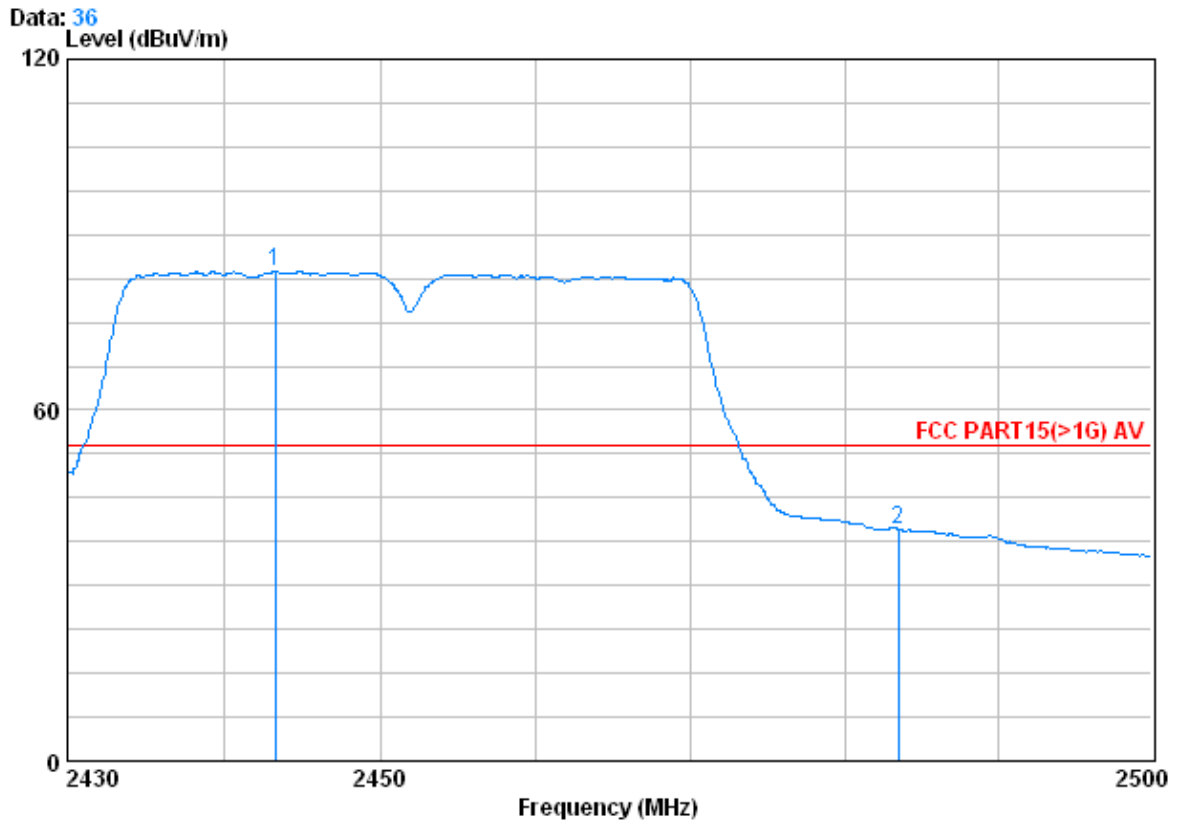


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Test mode:	802.11n(HT40)	Test channel:	Highest	Remark:	Average	Horizontal
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Condition : FCC PART15(>1G) AV 3m HORIZONTAL
Job No. : 2365ET
Mode : 802.11n HT40 2452MHz

	Freq	Cable Loss	Antenna Factor	Preamplifier Factor	Read Level	Limit Level	Limit Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2443.300	3.01	32.61	39.89	87.92	83.64	54.00	29.64
2	2483.500	3.03	32.67	39.92	43.87	39.65	54.00	-14.35

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

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