

Report No.: KSCR211100025501

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# TEST REPORT

 Application No.:
 KSCR2111000255AT

 FCC ID:
 2ADTD-DS2DE3AS6

 IC:
 20199-DS2DE3AS6

Applicant: Hangzhou Hikvision Digital Technology Co., Ltd

Address of Applicant: No.555 Qianmo Road, Binjiang District, Hangzhou 310052, China

Manufacturer: Hangzhou Hikvision Digital Technology Co.,Ltd

Address of Manufacturer: No.555 Qianmo Road, Binjiang District, Hangzhou 310052, China

**Factory:** 1.Hangzhou Hikvision Technology Co., Ltd. 2.Hangzhou Hikvision Electronics Co., Ltd.

3. Chongging Hikvision technology Co., Ltd.

Address of Factory: 1.No.700, Dongliu Road, Binjiang District, Hangzhou Ctiy, Zhejiang, 310052,

China

2.No.299, Qiushi Road, Tonglu Economic Development Zone, Tonglu

County, Hangzhou, Zhejiang, 310052, China

3.No. 118, Haikang Road, Area C, Jianqiao Industrial Park, Dadukou

District, Chongqing, 401325, China

**Equipment Under Test (EUT):** 

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EUT Name: MINI PTZ CAMERA

Model No.: DS-2DE3A404IW-DE/W S6, DS-2DE3A404IW-DE/WUHK,

DS-2DE3A404IW-DE/WCKV,DS-2DE3A404IW-DE/WUVS,DS-

2DE3A404IW-DE/WKVO,DS-2DE3A404IW-DE/WHUN¤

Please refer to section 2 of this report which indicates which model was

actually tested and which were electrically identical.

Trade mark: HIKVISION

Standard(s): 47 CFR Part 15, Subpart C 15.247

RSS-247 Issue 2, February 2017

RSS-Gen Issue 5 Amendment 2 (February 2021)

**Date of Receipt:** 2021-11-19

**Date of Test:** 2021-11-22 to 2021-12-22

**Date of Issue:** 2021-12-22

Test Result: Pass\*



Frie fin



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<sup>\*</sup> In the configuration tested, the EUT complied with the standards specified above.



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Revision Record							
Version Description Date Remark							
00	Original	2021-12-22	/				

Authorized for issue by:			
	Damon zhou		
	Damon Zhou / Project Engineer		
	Enie fri		
	Eric Lin / Reviewer	_	



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# 2 Test Summary

Radio Spectrum Technical Requirement							
Item	FCC Requirement	IC Requirement	Method	Result			
Antenna Requirement	47 CFR Part 15, Subpart C 15.203 & 15.247(c)	RSS-Gen Clause 6.8	N/A	Customer Declaration			

Radio Spectrum Matter Part								
Item	FCC Requirement	IC Requirement	Method	Result				
Conducted Emissions at AC Power Line (150kHz-30MHz)	47 CFR Part 15, Subpart C 15.207	RSS-Gen Clause 8.8	ANSI C63.10 (2013) Section 6.2	Pass				
Minimum 6dB Bandwidth	47 CFR Part 15, Subpart C 15.247a(2)	RSS-247 Clause 5.2(a)	ANSI C63.10 (2013) Section 11.8.1	Pass				
Conducted Average Output Power	47 CFR Part 15, Subpart C 15.247(b)(3)	RSS-247 Clause 5.4(d)	ANSI C63.10 (2013) Section 11.9.2	Pass				
Power Spectrum Density	47 CFR Part 15, Subpart C 15.247(e)	RSS-247 Clause 5.2(b)	ANSI C63.10 (2013) Section 11.10.3	Pass				
Conducted Band Edges Measurement	47 CFR Part 15, Subpart C 15.247(d)	RSS-247 Clause 5.5	ANSI C63.10 (2013) Section 11.13.3.2	Pass				
Conducted Spurious Emissions	47 CFR Part 15, Subpart C 15.247(d)	RSS-247 Clause 5.5	ANSI C63.10 (2013) Section 11.11	Pass				
Radiated Emissions which fall in the restricted bands	47 CFR Part 15, Subpart C 15.209 & 15.247(d)	RSS-247 Section 3.3 & RSS-Gen Section 8.9	ANSI C63.10 (2013) Section 6.10.5	Pass				
Radiated Spurious Emissions	47 CFR Part 15, Subpart C 15.209 & 15.247(d)	RSS-247 Section 3.3 & RSS-Gen Section 8.9	ANSI C63.10 (2013) Section 6.4,6.5,6.6	Pass				
99% Bandwidth	-	RSS-Gen Section 6.7	ANSI C63.10 Section 6.9.3	Pass				

#### **Declaration of EUT Family Grouping:**

Note: There are series models mentioned in this report, and they are the similar in electrical and electronic characters. Only the model DS-2DE3A404IW-DE/W S6 was tested since their differences were the model number and appearance.



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# 4 General Information

# 4.1 Details of E.U.T.

Power supply: DC 12V by adapter or 42.5-57V,0.6A by PoE(802.3at)

Adapter Model: KPL-040F-VI INPUT:100-240V,50/60Hz,1.7A OUTPUT:12.0V,3.33A,40.0W

Test voltage: AC 120V/60Hz Serial Number: G66114537

Firmware Version: V5.7.2 build 210826

Antenna Gain: Antenna 1:2.95dBi (Provided by manufacturer)

Antenna 2:5.20dBi (Provided by manufacturer)

Directional gain:7.16dBi

Antenna Type: Antenna 1: FPC Antenna,

Antenna 2: FPC Antenna

Channel Spacing: 5MHz

Modulation Type: 802.11b: DSSS (CCK, DQPSK, DBPSK)

802.11g/n: OFDM (64QAM, 16QAM, QPSK, BPSK)

Number of Channels: 802.11b/g/n(HT20):11

802.11n(HT40):7

Operation Frequency: 802.11b/g/n(HT20): 2412MHz to 2462MHz

36

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802.11n(HT40): 2422MHz to 2452MHz

# 4.2 Power level setting using in test:

Channal	802.11b		802.11g		802.11n(HT20)	
Channel	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2
1	24	26	36	38	36	38
6	24	26	36	38	36	38
11	24	26	36	38	36	38
Channal	802.11	n(HT40)				
Channel	Ant 1	Ant 2				
3	34	36				

# 4.3 Description of Support Units

34

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<u> </u>	· -		
Description	Manufacturer	Model No.	Serial No.
Laptop	Lenovo	ThinkPad X100e	/
SecureCRT	VanDyke	V 6.2.0	/
Serial port adapter plate	/	Test Plate 3	/
POE Adapter	N/A	N/A	N/A



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# 4.4 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Radio Frequency	8.4 x 10 <sup>-8</sup>
2	Timeout	2s
3	Duty Cycle	0.37%
4	Occupied Bandwidth	3%
5	RF Conducted Power	0.6dB
6	RF Power Density	2.9dB
7	Conducted Spurious Emissions	0.75dB
0	DE Dodieted Dower	5.2dB (Below 1GHz)
8	RF Radiated Power	5.9dB (Above 1GHz)
		4.2dB (Below 30MHz)
0	Dadiated Courieus Emission Test	4.5dB (30MHz-1GHz)
9	Radiated Spurious Emission Test	5.1dB (1GHz-18GHz)
		5.4dB (Above 18GHz)
10	Temperature Test	1°C
11	Humidity Test	3%
12	Supply Voltages	1.5%
13	Time	3%

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



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#### 4.5 Test Location

All tests were performed at:

Compliance Certification Services (Kunshan) Inc.

No.10 Weiye Rd, Innovation park, Eco&Tec, Development Zone, Kunshan City, Jiangsu, China.

Tel: +86 512 5735 5888 Fax: +86 512 5737 0818

No tests were sub-contracted.

## 4.6 Test Facility

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

#### • CNAS (No. CNAS L4354)

CNAS has accredited Compliance Certification Services (Kunshan) Inc. to ISO/IEC 17025:2017 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.

#### A2LA (Certificate No. 2541.01)

Compliance Certification Services (Kunshan) Inc. is accredited by the American Association for Laboratory Accreditation (A2LA). Certificate No. 2541.01.

#### • FCC (Designation Number: CN1172)

Compliance Certification Services Inc. has been recognized as an accredited testing laboratory.

Designation Number: CN1172.

# • ISED (CAB identifier: CN0072)

Compliance Certification Services (Kunshan) Inc. has been recognized by Innovation, Science and Economic Development Canada (ISED) as an accredited testing laboratory.

Company Number: 2324E

#### VCCI (Member No.: 1938)

The 3m and 10m Semi-anechoic chamber and Shielded Room of Compliance Certification Services (Kunshan) Inc. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-20134, R-11600, C-11707, T-11499, G-10216 respectively.

#### 4.7 Deviation from Standards

None

# 4.8 Abnormalities from Standard Conditions

None



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# 5 Equipment List

Item	Equipment	Manufacturer	Model	Serial Number	Cal Date	Cal. Due Date
Con	ducted Emission at Mains Terminals (150	kHz-30MHz)		•		
1	EMI Test Receive	R&S	ESCI	100781	02/01/2021	01/31/2022
2	LISN	R&S	ENV216	101604	10/12/2021	10/11/2022
3	LISN	Schwarzbeck	NNLK 8129	8129-143	10/12/2021	10/11/2022
4	Pulse Limiter	R&S	ESH3-Z2	100609	02/01/2021	01/31/2022
5	CE test Cable	Thermax	/	14	10/16/2021	10/15/2022
6	Test Software	Farad	EZ-EMC	CCS-03A1	N.C.R	N.C.R
RF (	Conducted Test					
1	Spectrum Analyzer	Agilent	E4446A	MY44020154	04/16/2021	04/15/2022
2	Spectrum Analyzer	Keysight	N9020A	MY55370209	10/11/2021	10/10/2022
3	Spectrum Analyzer	Keysight	N9010A	MY56480443	02/01/2021	01/31/2022
4	Signal Generator	Agilent	N5182A	MY50142015	08/27/2021	08/26/2022
5	Radio Communication Test Station	Anritsu	MT8000A	6262012849	N/A	N/A
6	Radio Communication Analyzer	Anritsu	MT8821C	6201692222	N/A	N/A
7	Universal Radio Communication Tester	R&S	CMW500	159275	10/12/2021	10/11/2022
8	Universal Radio Communication Tester	R&S	CMW500	167239	04/16/2021	04/15/2022
9	Power Meter	Anritsu	ML2495A	1445010	04/15/2021	04/14/2022
10	Switcher	CCSRF	FY562	KUS2001M001 -3	10/12/2021	10/11/2022
11	AC Power Source	EXTECH	6605	1570106	N.C.R	N.C.R
12	DC Power Supply	Aglient	E3632A	MY50340053	N.C.R	N.C.R
13	6dB Attenuator	Mini-Circuits	NAT-6-2W	15542-1	N.C.R	N.C.R
14	Power Divider	AISI	IOWOPE2068	PE2068	N.C.R	N.C.R
15	Filter	MICRO-TRONICS	BRM50701	5	N.C.R	N.C.R
16	Conducted test cable	/	RF01-RF04	/	04/15/2021	04/14/2022
17	Software	BST	TST-PASS	N/A	N/A	N/A
18	Temp. / Humidity Chamber	TERCHY	MHK-120AK	X30109	04/15/2021	04/14/2022
19	Thermometer	Anymetre	TH603	CCS007	10/14/2021	10/13/2022
RF R	adiated Test					
1	Spectrum Analyzer	R&S	FSV40	101493	10/11/2021	10/10/2022
2	Signal Generator	Agilent	E8257C	MY43321570	10/18/2021	10/17/2022
3	Loop Antenna	Schwarzbeck	HXYZ9170	9170-108	02/22/2021	02/21/2022
4	Bilog Antenna	TESEQ	CBL 6112D	35403	06/21/2021	06/20/2023
5	Bilog Antenna	SCHWARZBECK	VULB9160	9160-3342	04/13/2021	04/12/2023
6	Horn-antenna(1-18GHz)	Schwarzbeck	BBHA9120D	267	10/26/2020	10/25/2022
7	Horn-antenna(1-18GHz)	ETS-LINDGREN	3117	00143290	02/22/2021	02/21/2023
8	Horn Antenna(18-40GHz)	Schwarzbeck	BBHA9170	BBHA9170171	02/22/2021	02/21/2022
9	Pre-Amplifier(30MHz~18GHz)	LNA	/	/	04/15/2021	04/14/2022
10	Amplifier(18~40GHz)	COM-POWER	PAM-840A	461332	10/18/2021	10/17/2022
11	Low Pass Filter	MICRO-TRONICS	VLFX-950	RV142900829	N.C.R	N.C.R
12	High Pass Filter	Mini-Circuits	VHF-1200	15542	N.C.R	N.C.R
13	Filter (5450MHz~5770 MHz)	MICRO-TRONICS	BRC50704-01	2	N.C.R	N.C.R
14	Filter (5690 MHz~5930 MHz)	MICRO-TRONICS	BRC50705-01	4	N.C.R	N.C.R



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15	Filter (5150 MHz~5350 MHz)	MICRO-TRONICS	BRC50703-01	2	N.C.R	N.C.R
16	Filter (885 MHz~915 MHz)	MICRO-TRONICS	BRM14698	1	N.C.R	N.C.R
17	Filter (815 MHz~860 MHz)	MICRO-TRONICS	BRM14697	1	N.C.R	N.C.R
18	Filter (1745 MHz $\sim$ 1910 MHz)	MICRO-TRONICS	BRM14700	1	N.C.R	N.C.R
19	Filter (1922 MHz $\sim$ 1977 MHz)	MICRO-TRONICS	BRM50715	1	N.C.R	N.C.R
20	Filter (2550 MHz)	MICRO-TRONICS	HPM13362	5	N.C.R	N.C.R
21	Filter (1532 MHz $\sim$ 1845 MHz)	MICRO-TRONICS	BRM50713	1	N.C.R	N.C.R
22	Filter (2.4GHz)	MICRO-TRONICS	BRM50701	5	N.C.R	N.C.R
23	RE test cable	/	RE01-RE04	/	04/15/2021	04/14/2022
24	Software	Faratronic	EZ_EMC-v 3A1	N/A	N/A	N/A



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# 6 Radio Spectrum Technical Requirement

# 6.1 Antenna Requirement

# 6.1.1 Test Requirement:

47 CFR Part 15, Subpart C 15.203 & 15.247(b)(4)

#### 6.1.2 Conclusion

# Standard 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 1 and antenna 2 is FPC antenna, and all no consideration of replacement. The best case gain of the antenna 1 is 2.95dBi and antenna 2 is 5.20dBi.

Antenna location: Refer to Appendix (External Photos).



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# 7 Radio Spectrum Matter Test Results

# 7.1 Conducted Emissions at AC Power Line (150kHz-30MHz)

Test Requirement 47 CFR Part 15, Subpart C 15.207 Test Method: ANSI C63.10 (2013) Section 6.2

Limit:

Francisco of amission/MU=)	Conducted limit(dBμV)				
Frequency of emission(MHz)	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	he frequency.				



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#### 7.1.1 E.U.T. Operation

**Operating Environment:** 

Temperature: 22 °C Humidity: 50 % RH Atmospheric Pressure: 1002 mbar

Pretest these modes to find the worst case:

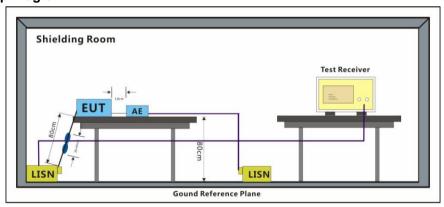
a:TX mode\_Powered by DC 12V via adapter and keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40). Only the data of worst case is recorded in the report.

b:TX mode\_Powered by DC 48V via PoE and keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40). Only the data of worst case is recorded in the report.

The worst case for final test:

a:TX mode\_Powered by DC 12V via adapter and keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40). Only the data of worst case is recorded in the report.

#### 7.1.2 Test Setup Diagram





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#### 7.1.3 Measurement Procedure and Data

- 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  $50 \text{ohm}/50 \mu\text{H} + 5 \text{ohm}$  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 on conducted measurement.

Remark 1: LISN=Read Level+ Cable Loss+ LISN Factor

Remark 2: This test item be test using two power supply (AC 120V for adapter & AC 120V for POE) and only record the worst data of DC 12V by adapter in the report.



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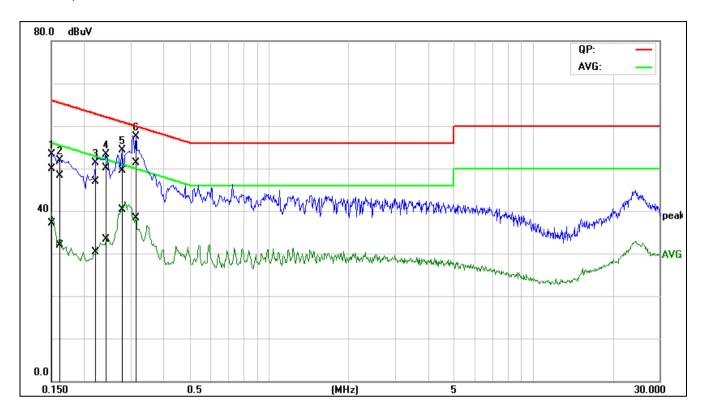
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Mode:a; Line:Live Line



No.	Frequency	QuasiPeak reading	Average reading	Correction factor	QuasiPeak result	Average result	QuasiPeak limit	Average limit	QuasiPeak margin	Average margin	Remark
	(MHz)	(dBuV)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dBuV)	(dBuV)	(dB)	(dB)	
1	0.1509	30.53	17.64	19.46	49.99	37.10	65.95	55.95	-15.96	-18.85	Pass
2	0.1629	28.90	12.39	19.46	48.36	31.85	65.31	55.31	-16.95	-23.46	Pass
3	0.2172	27.50	10.83	19.46	46.96	30.29	62.93	52.93	-15.97	-22.64	Pass
4	0.2440	30.67	13.75	19.47	50.14	33.22	61.96	51.96	-11.82	-18.74	Pass
5	0.2779	30.04	20.79	19.47	49.51	40.26	60.88	50.88	-11.37	-10.62	Pass
6	0.3095	31.93	18.74	19.47	51.40	38.21	59.98	49.98	-8.58	-11.77	Pass



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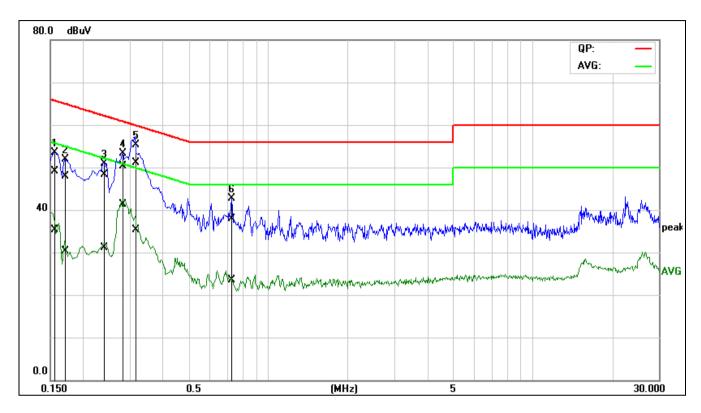
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Mode:a; Line:Neutral Line



No.	Frequency	QuasiPeak	Average	Correction	QuasiPeak	Average	QuasiPeak	Average	QuasiPeak	Average	Remark
		reading	reading	factor	result	result	limit	limit	margin	margin	
	(MHz)	(dBuV)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dBuV)	(dBuV)	(dB)	(dB)	
1	0.1537	29.72	15.85	19.42	49.14	35.27	65.80	55.80	-16.66	-20.53	Pass
2	0.1715	28.48	10.83	19.42	47.90	30.25	64.89	54.89	-16.99	-24.64	Pass
3	0.2404	28.80	11.75	19.44	48.24	31.19	62.08	52.08	-13.84	-20.89	Pass
4	0.2794	30.93	21.77	19.45	50.38	41.22	60.83	50.83	-10.45	-9.61	Pass
5	0.3176	31.69	15.87	19.46	51.15	35.33	59.77	49.77	-8.62	-14.44	Pass
6	0.7296	18.41	3.99	19.52	37.93	23.51	56.00	46.00	-18.07	-22.49	Pass



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## 7.2 Minimum 6dB Bandwidth

Test Requirement 47 CFR Part 15, Subpart C 15.247a(2)
Test Method: ANSI C63.10 (2013) Section 11.8.1

Limit: ≥500 kHz

#### 7.2.1 E.U.T. Operation

Operating Environment:

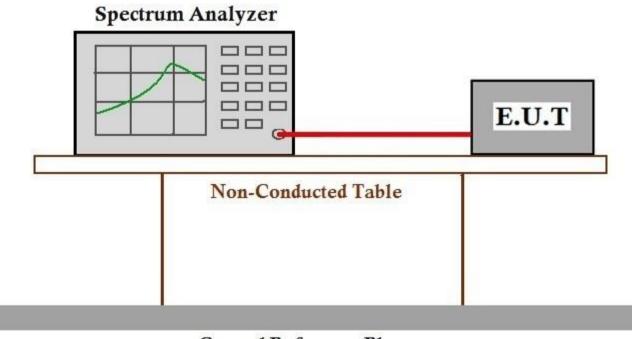
Temperature: 24 °C Humidity: 50 % RH Atmospheric Pressure: 1010 mbar

Test mode a:TX mode\_Powered by DC 12V via adapter and keep the EUT in continuously

transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40). Only the data of worst case is recorded in the

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#### 7.2.2 Test Setup Diagram



# Ground Reference Plane

#### 7.2.3 Measurement Procedure and Data

The detailed test data see: Appendix A for KSCR211100025501



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# 7.3 Conducted Average Output Power

Test Requirement 47 CFR Part 15, Subpart C 15.247(b)(3)
Test Method: ANSI C63.10 (2013) Section 11.9.2

Limit:

Frequency range(MHz)	Output power of the intentional radiator(watt)					
	1 for ≥50 hopping channels					
902-928	0.25 for 25≤ hopping channels <50					
	1 for digital modulation					
	1 for ≥75 non-overlapping hopping channels					
2400-2483.5	0.125 for all other frequency hopping systems					
	1 for digital modulation					
5725-5850	1 for frequency hopping systems and digital modulation					

Remark: For 802.11n MIMO mode, the directional antenna gain is 7.16dBi, the limit of output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi, so the limit for 2400-2483.5MHz is 28.84dBm.



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#### 7.3.1 E.U.T. Operation

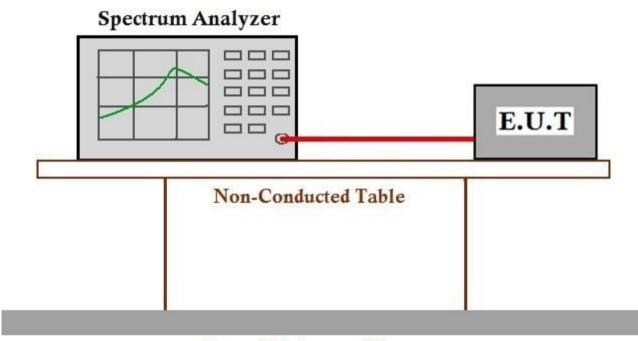
**Operating Environment:** 

Temperature: 24 °C Humidity: 50 % RH Atmospheric Pressure: 1010 mbar

Test mode a:TX mode\_Powered by DC 12V via adapter and keep the EUT in continuously

transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40). Only the data of worst case is recorded in the

# 7.3.2 Test Setup Diagram



# Ground Reference Plane

#### 7.3.3 Measurement Procedure and Data

The detailed test data see: Appendix A for KSCR211100025501



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# 7.4 Power Spectrum Density

Test Requirement 47 CFR Part 15, Subpart C 15.247(e)
Test Method: ANSI C63.10 (2013) Section 11.10.2

Limit: ≤8dBm in any 3 kHz band during any time interval of continuous

transmission

Remark: For 802.11n MIMO mode, the directional antenna gain is 7.16dBi, the limit of power spectrum density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi, so the limit is 6.84dBm/3KHz.

## 7.4.1 E.U.T. Operation

Operating Environment:

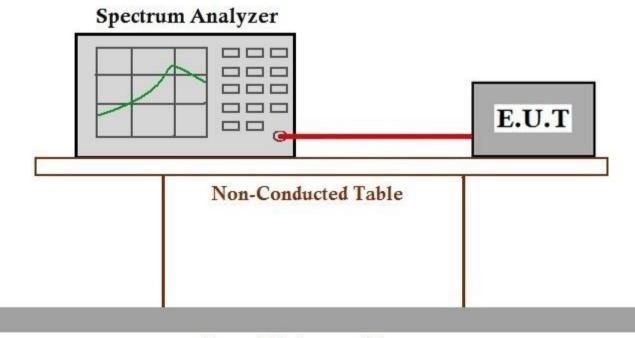
Temperature: 24 °C Humidity: 50 % RH Atmospheric Pressure: 1010 mbar

Test mode a:TX mode\_Powered by DC 12V via adapter and keep the EUT in continuously

transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40). Only the data of worst case is recorded in the

report.

#### 7.4.2 Test Setup Diagram



# Ground Reference Plane

#### 7.4.3 Measurement Procedure and Data

The detailed test data see: Appendix A for KSCR211100025501



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# 7.5 Conducted Band Edges Measurement

Test Requirement 47 CFR Part 15, Subpart C 15.247(d)
Test Method: ANSI C63.10 (2013) Section 11.13.3.2

Limit:

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated 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, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in

§15.209(a) (see §15.205(c)



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# 7.5.1 E.U.T. Operation

**Operating Environment:** 

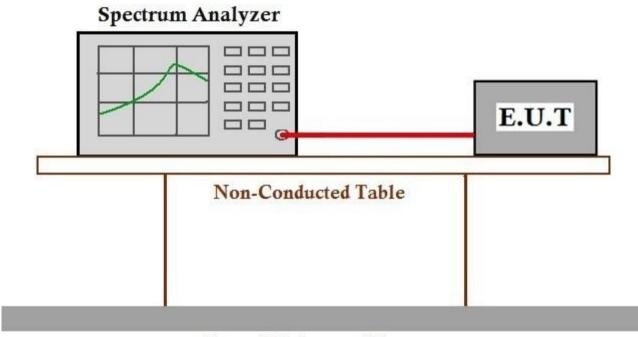
Temperature: 24 °C Humidity: 50 % RH Atmospheric Pressure: 1010 mbar

Test mode a:TX mode\_Powered by DC 12V via adapter and keep the EUT in continuously

transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40). Only the data of worst case is recorded in the

report.

# 7.5.2 Test Setup Diagram



# Ground Reference Plane

#### 7.5.3 Measurement Procedure and Data

The detailed test data see: Appendix A for KSCR211100025501



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# 7.6 Conducted Spurious Emissions

Test Requirement 47 CFR Part 15, Subpart C 15.247(d)
Test Method: ANSI C63.10 (2013) Section 11.11

Limit:

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated 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, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in

§15.209(a) (see §15.205(c)



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# 7.6.1 E.U.T. Operation

Operating Environment:

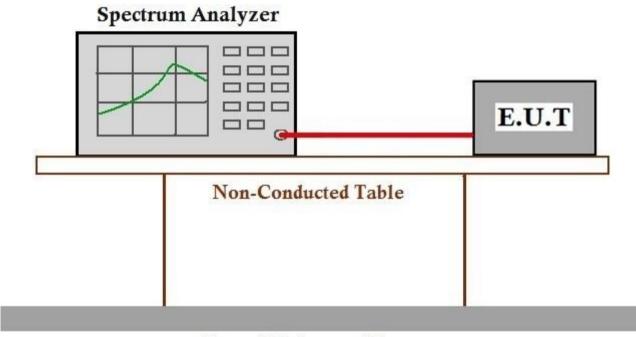
Temperature: 24 °C Humidity: 50 % RH Atmospheric Pressure: 1010 mbar

Test mode a:TX mode\_Powered by DC 12V via adapter and keep the EUT in continuously

transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40). Only the data of worst case is recorded in the

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#### 7.6.2 Test Setup Diagram



# Ground Reference Plane

#### 7.6.3 Measurement Procedure and Data

The detailed test data see: Appendix A for KSCR211100025501



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# 7.7 Radiated Emissions which fall in the restricted bands

Test Requirement 47 CFR Part 15, Subpart C 15.209 & 15.247(d)

Test Method: ANSI C63.10 (2013) Section 6.10.5

Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, 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.



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#### 7.7.1 E.U.T. Operation

Operating Environment:

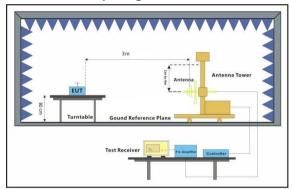
Temperature: 24 °C Humidity: 50 % RH Atmospheric Pressure: 1010 mbar

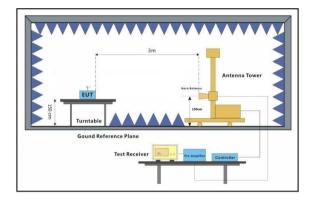
Test mode a:TX mode\_Powered by DC 12V via adapter and keep the EUT in continuously

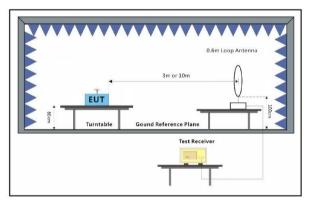
transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40). Only the data of worst case is recorded in the

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#### 7.7.2 Test Setup Diagram









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#### 7.7.3 Measurement Procedure and Data

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d. 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.
- e. 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.
- f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- g. 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 margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- h. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- i. Repeat above procedures until all frequencies measured was complete.
- Remark 1: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
- Remark 2: 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. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.
- Remark 3: This test item was investigated while operating in SISO and MIMO mode, however, it was determined that SISO antenna 1 operation for b/g modulation and MIMO antenna operation for n modulation produced the worst emissions. So the emissions produced from other operation are not recorded in report.

Remark 4: This test item be test using two power supply (AC 120V for adapter & AC 120V for POE) and only record the worst data of DC 12V by adapter in the report.



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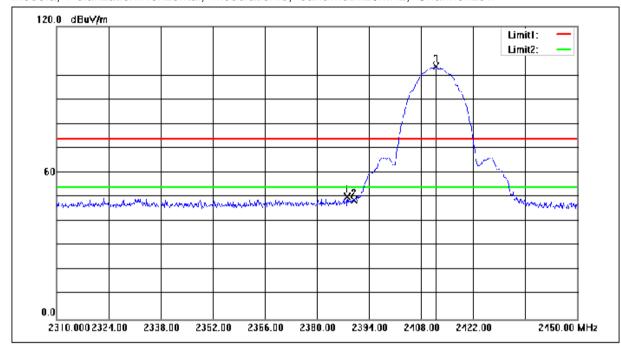
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#### Mode:a; Polarization:Horizontal; Modulation:b; bandwidth:20MHz; Channel:Low



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2388.120	64.16	-14.01	50.15	74.00	-23.85	peak
2	2390.000	62.89	-14.01	48.88	74.00	-25.12	peak
3	2412.060	117.54	-13.94	103.60	74.00	29.60	peak



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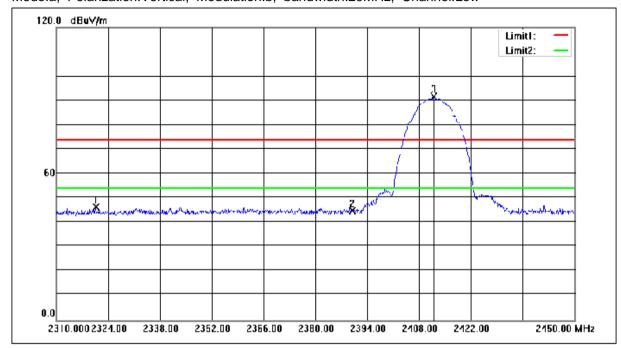
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# Mode:a; Polarization:Vertical; Modulation:b; bandwidth:20MHz; Channel:Low



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark	
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)		
1	2320.640	60.66	-14.22	46.44	74.00	-27.56	peak	
2	2390.000	58.91	-14.01	44.90	74.00	-29.10	peak	
3	2412.060	105.57	-13.94	91.63	74.00	17.63	peak	



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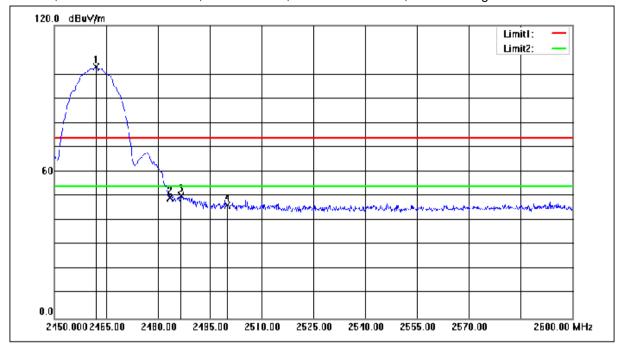
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## Mode:a; Polarization:Horizontal; Modulation:b; bandwidth:20MHz; Channel:High



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2462.000	116.72	-13.78	102.94	74.00	28.94	peak
2	2483.500	62.98	-13.71	49.27	74.00	-24.73	peak
3	2486.750	63.95	-13.70	50.25	74.00	-23.75	peak
4	2500.000	60.00	-13.64	46.36	74.00	-27.64	peak



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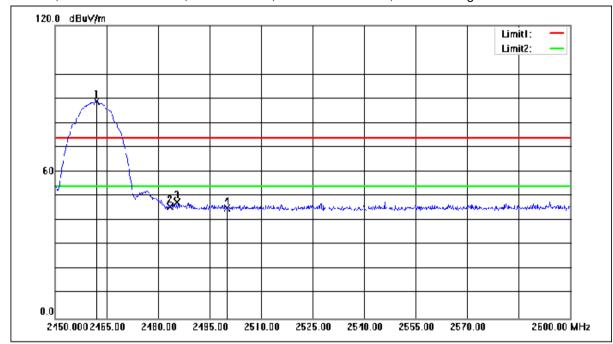
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## Mode:a; Polarization: Vertical; Modulation:b; bandwidth: 20MHz; Channel: High



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2462.000	102.70	-13.78	88.92	74.00	14.92	peak
2	2483.500	59.48	-13.71	45.77	74.00	-28.23	peak
3	2485.400	61.29	-13.70	47.59	74.00	-26.41	peak
4	2500.000	58.66	-13.64	45.02	74.00	-28.98	peak



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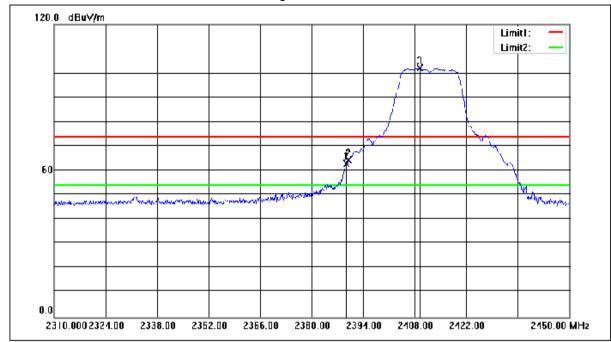
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#### Mode:a; Polarization:Horizontal; Modulation:g; bandwidth:20MHz; Channel:Low



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2389.380	76.82	-14.01	62.81	74.00	-11.19	peak
2	2390.000	78.36	-14.01	64.35	74.00	-9.65	peak
3	2409.400	116.04	-13.95	102.09	74.00	28.09	peak



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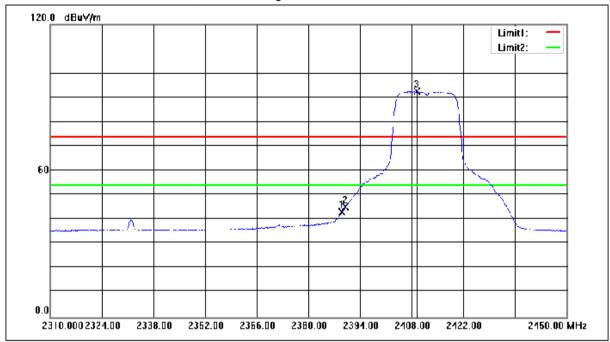
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#### Mode:a; Polarization:Horizontal; Modulation:g; bandwidth:20MHz; Channel:Low



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2389.100	57.18	-14.01	43.17	54.00	-10.83	AVG
2	2390.000	59.22	-14.01	45.21	54.00	-8.79	AVG
3	2409.400	106.54	-13.95	92.59	54.00	38.59	AVG



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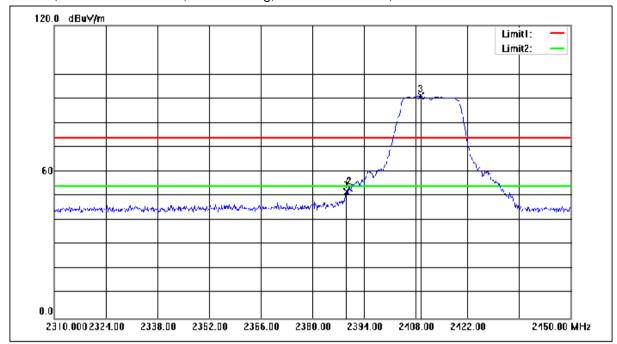
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## Mode:a; Polarization:Vertical; Modulation:g; bandwidth:20MHz; Channel:Low



	No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
		(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
	1	2389.240	65.67	-14.01	51.66	74.00	-22.34	peak
1	2	2390.000	67.13	-14.01	53.12	74.00	-20.88	peak
	3	2409.400	104.98	-13.95	91.03	74.00	17.03	peak



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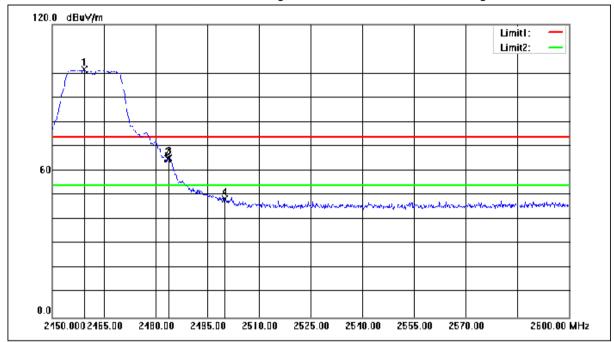
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#### Mode:a; Polarization:Horizontal; Modulation:g; bandwidth:20MHz; Channel:High



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2459.300	115.18	-13.78	101.40	74.00	27.40	peak
2	2483.500	78.56	-13.71	64.85	74.00	-9.15	peak
3	2483.900	78.92	-13.70	65.22	74.00	-8.78	peak
4	2500.000	62.14	-13.64	48.50	74.00	-25.50	peak



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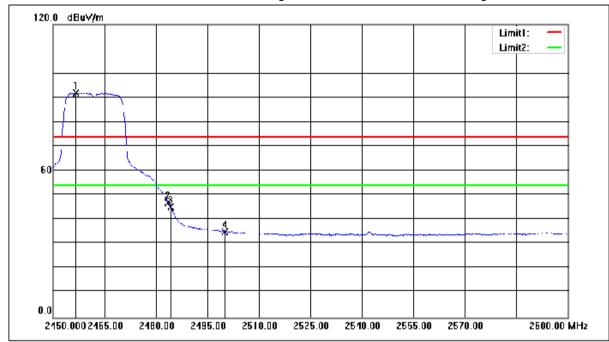
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#### Mode:a; Polarization:Horizontal; Modulation:g; bandwidth:20MHz; Channel:High



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2456.750	105.67	-13.79	91.88	54.00	37.88	AVG
2	2483.500	60.57	-13.71	46.86	54.00	-7.14	AVG
3	2484.350	58.73	-13.70	45.03	54.00	-8.97	AVG
4	2500.000	48.51	-13.64	34.87	54.00	-19.13	AVG



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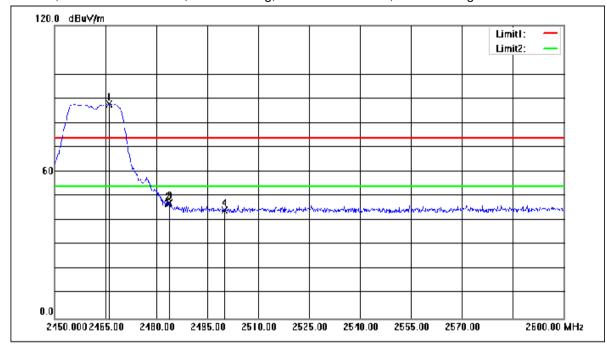
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## Mode:a; Polarization:Vertical; Modulation:g; bandwidth:20MHz; Channel:High



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2466.050	101.62	-13.76	87.86	74.00	13.86	peak
2	2483.500	60.53	-13.71	46.82	74.00	-27.18	peak
3	2483.900	60.83	-13.70	47.13	74.00	-26.87	peak
4	2500.000	58.02	-13.64	44.38	74.00	-29.62	peak



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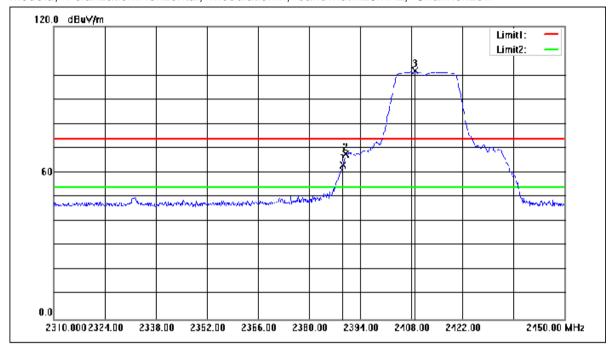
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### Mode:a; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:Low



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2389.240	77.24	-14.01	63.23	74.00	-10.77	peak
2	2390.000	81.55	-14.01	67.54	74.00	-6.46	peak
3	2408.980	115.69	-13.95	101.74	74.00	27.74	peak



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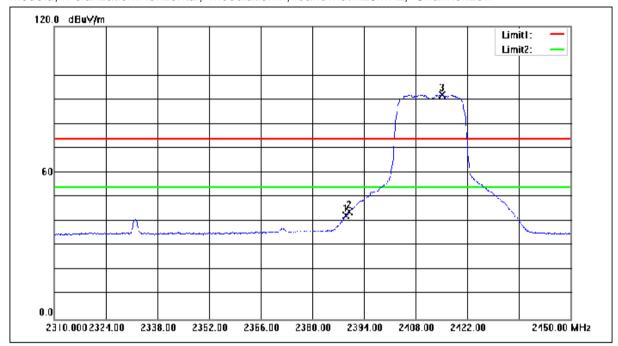
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### Mode:a; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:Low



	No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
		(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
Γ	1	2389.100	56.32	-14.01	42.31	54.00	-11.69	AVG
	2	2390.000	58.02	-14.01	44.01	54.00	-9.99	AVG
Γ	3	2415.140	105.87	-13.93	91.94	54.00	37.94	AVG



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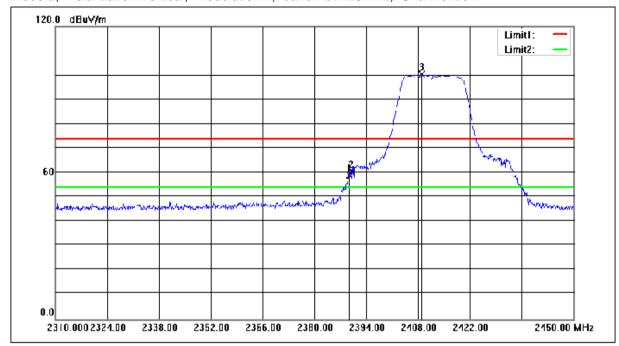
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### Mode:a; Polarization:Vertical; Modulation:n; bandwidth:20MHz; Channel:Low



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark	
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)		
1	2389.380	73.01	-14.01	59.00	74.00	-15.00	peak	
2	2390.000	74.39	-14.01	60.38	74.00	-13.62	peak	
3	2408.980	114.36	-13.95	100.41	74.00	26.41	peak	



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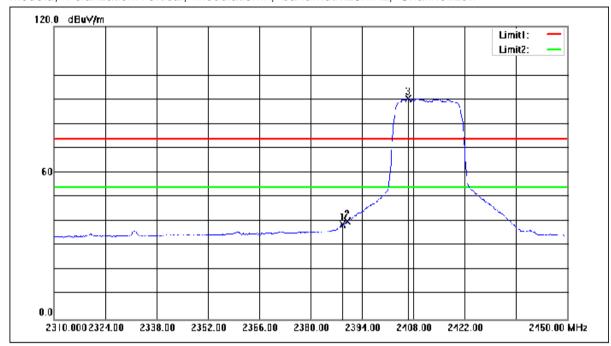
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### Mode:a; Polarization:Vertical; Modulation:n; bandwidth:20MHz; Channel:Low



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2388.680	52.72	-14.01	38.71	54.00	-15.29	AVG
2	2390.000	54.00	-14.01	39.99	54.00	-14.01	AVG
3	2406.600	104.31	-13.95	90.36	54.00	36.36	AVG



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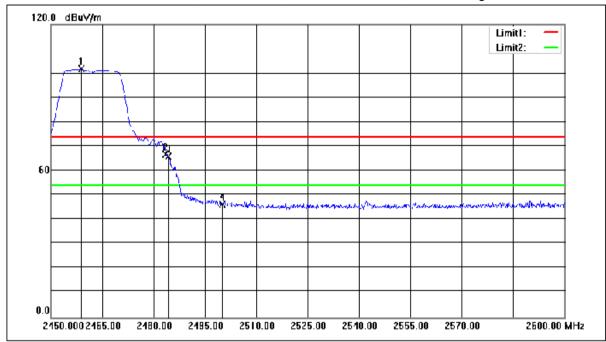
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### Mode:a; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:High



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2458.850	115.69	-13.79	101.90	74.00	27.90	peak
2	2483.500	80.52	-13.71	66.81	74.00	-7.19	peak
3	2484.350	79.52	-13.70	65.82	74.00	-8.18	peak
4	2500.000	59.84	-13.64	46.20	74.00	-27.80	peak



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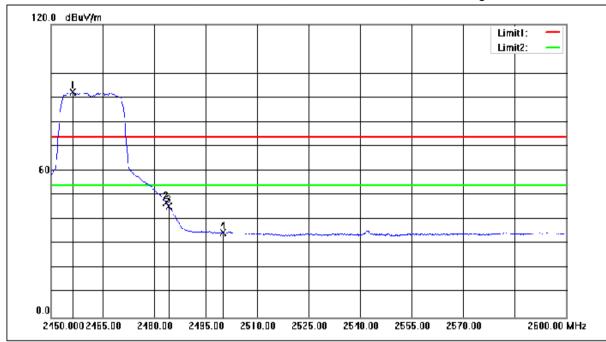
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### Mode:a; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:High



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2456.300	106.02	-13.79	92.23	54.00	38.23	AVG
2	2483.500	60.69	-13.71	46.98	54.00	-7.02	AVG
3	2484.350	59.10	-13.70	45.40	54.00	-8.60	AVG
4	2500.000	48.23	-13.64	34.59	54.00	-19.41	AVG



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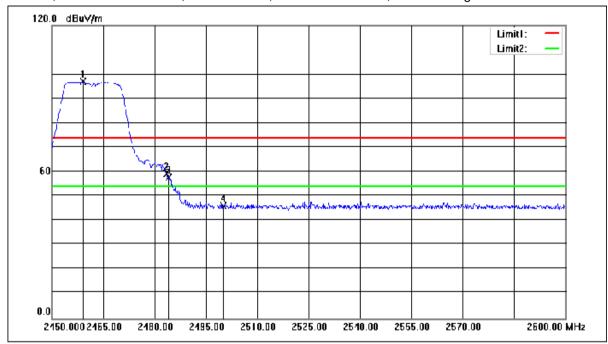
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### Mode:a; Polarization:Vertical; Modulation:n; bandwidth:20MHz; Channel:High



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2459.000	110.84	-13.79	97.05	74.00	23.05	peak
2	2483.500	72.83	-13.71	59.12	74.00	-14.88	peak
3	2484.050	71.60	-13.70	57.90	74.00	-16.10	peak
4	2500.000	59.60	-13.64	45.96	74.00	-28.04	peak



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### Mode:a; Polarization: Vertical; Modulation:n; bandwidth: 20MHz; Channel: High



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2456.300	101.26	-13.79	87.47	54.00	33.47	AVG
2	2483.500	52.67	-13.71	38.96	54.00	-15.04	AVG
3	2484.500	51.89	-13.70	38.19	54.00	-15.81	AVG
4	2500.000	47.40	-13.64	33.76	54.00	-20.24	AVG



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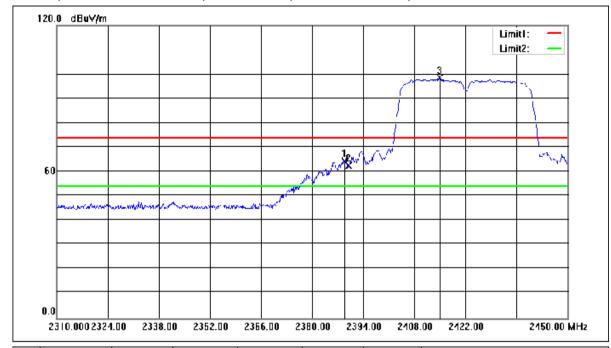
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### Mode:a; Polarization:Horizontal; Modulation:n; bandwidth:40MHz; Channel:Low



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2388.820	78.41	-14.01	64.40	74.00	-9.60	peak
2	2390.000	76.65	-14.01	62.64	74.00	-11.36	peak
3	2415.000	112.55	-13.93	98.62	74.00	24.62	peak



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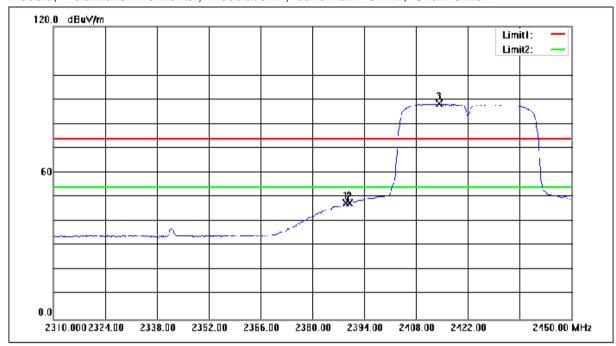
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### Mode:a; Polarization:Horizontal; Modulation:n; bandwidth:40MHz; Channel:Low



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2389.100	61.62	-14.01	47.61	54.00	-6.39	AVG
2	2390.000	61.57	-14.01	47.56	54.00	-6.44	AVG
3	2414.300	102.16	-13.93	88.23	54.00	34.23	AVG



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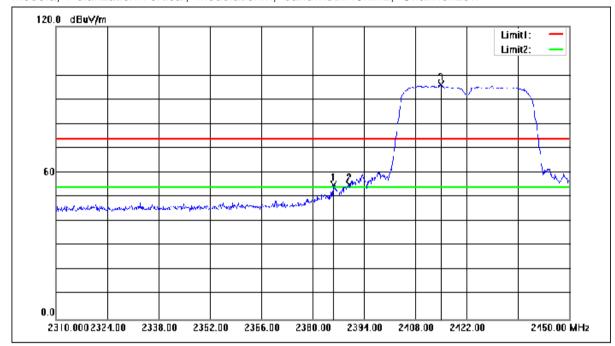
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### Mode:a; Polarization:Vertical; Modulation:n; bandwidth:40MHz; Channel:Low



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2385.600	69.03	-14.03	55.00	74.00	-19.00	peak
2	2390.000	69.03	-14.01	55.02	74.00	-18.98	peak
3	2415.000	110.13	-13.93	96.20	74.00	22.20	peak



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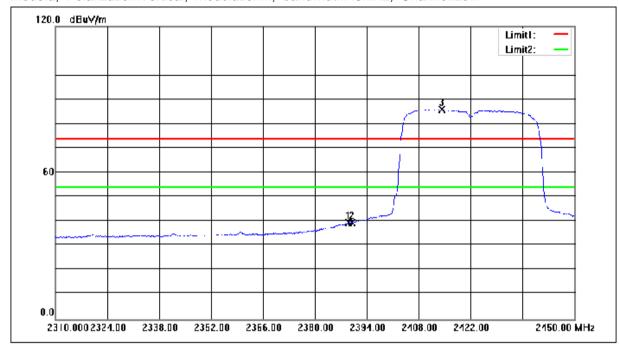
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### Mode:a; Polarization:Vertical; Modulation:n; bandwidth:40MHz; Channel:Low



	No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
		(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
	1	2388.960	53.55	-14.01	39.54	54.00	-14.46	AVG
ĺ	2	2390.000	53.61	-14.01	39.60	54.00	-14.40	AVG
	3	2414.160	99.86	-13.94	85.92	54.00	31.92	AVG



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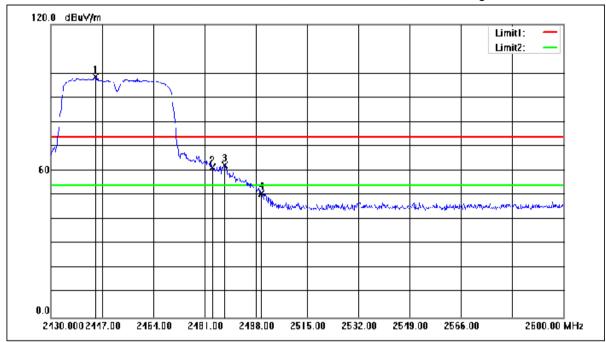
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### Mode:a; Polarization:Horizontal; Modulation:n; bandwidth:40MHz; Channel:High



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2444.790	112.28	-13.83	98.45	74.00	24.45	peak
2	2483.500	74.99	-13.71	61.28	74.00	-12.72	peak
3	2487.630	76.03	-13.70	62.33	74.00	-11.67	peak
4	2500.000	64.37	-13.64	50.73	74.00	-23.27	peak



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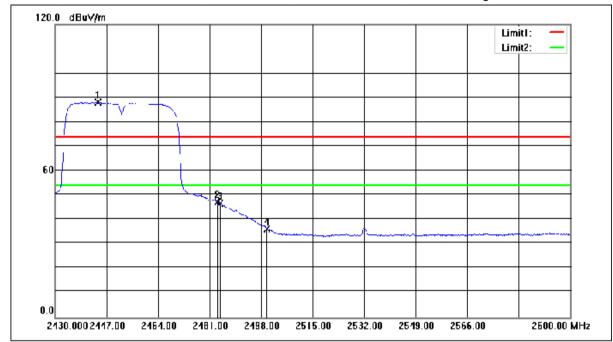
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### Mode:a; Polarization:Horizontal; Modulation:n; bandwidth:40MHz; Channel:High



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2444.110	101.97	-13.83	88.14	54.00	34.14	AVG
2	2483.500	61.11	-13.71	47.40	54.00	-6.60	AVG
3	2484.570	60.47	-13.70	46.77	54.00	-7.23	AVG
4	2500.000	49.83	-13.64	36.19	54.00	-17.81	AVG



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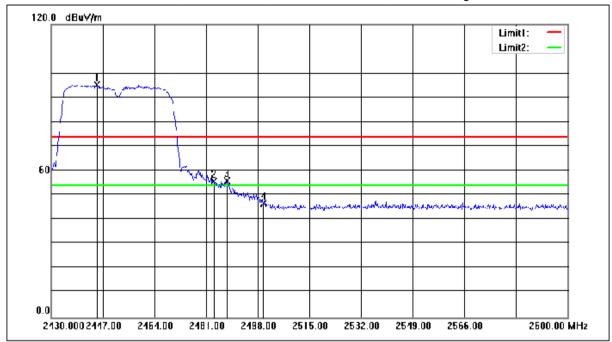
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#### Mode:a; Polarization:Vertical; Modulation:n; bandwidth:40MHz; Channel:High



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2445.130	109.19	-13.83	95.36	74.00	21.36	peak
2	2483.500	69.38	-13.71	55.67	74.00	-18.33	peak
3	2487.800	69.52	-13.69	55.83	74.00	-18.17	peak
4	2500.000	60.36	-13.64	46.72	74.00	-27.28	peak



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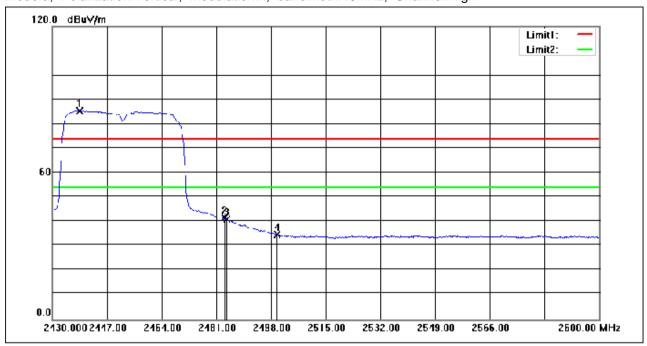
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Mode:a; Polarization: Vertical; Modulation:n; bandwidth: 40MHz; Channel: High



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2438.500	99.26	-13.86	85.40	54.00	31.40	AVG
2	2483.500	55.19	-13.71	41.48	54.00	-12.52	AVG
3	2484.230	54.71	-13.70	41.01	54.00	-12.99	AVG
4	2500.000	48.25	-13.64	34.61	54.00	-19.39	AVG



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# 7.8 Radiated Spurious Emissions

Test Requirement 47 CFR Part 15, Subpart C 15.209 & 15.247(d)

Test Method: ANSI C63.10 (2013) Section 6.4,6.5,6.6

Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, 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.



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#### 7.8.1 E.U.T. Operation

Operating Environment:

Temperature: 24 °C Humidity: 50 % RH Atmospheric Pressure: 1010 mbar

Pretest these modes to find the worst case:

a:TX mode\_Powered by DC 12V via adapter and keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40). Only the data of worst case is recorded in the report.

b:TX mode\_Powered by DC 48V via PoE and keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40). Only the data of worst case is recorded in the report.

The worst case for final test:

a:TX mode\_Powered by DC 12V via adapter and keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40). Only the data of worst case is recorded in the report.



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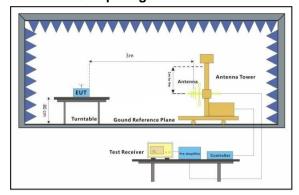
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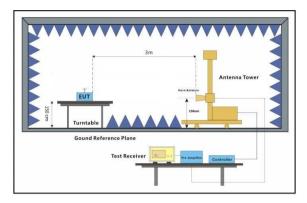


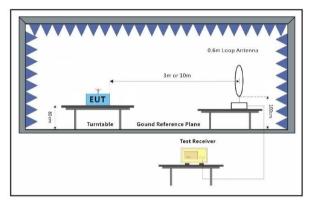
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#### 7.8.2 Test Setup Diagram









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#### 7.8.3 Measurement Procedure and Data

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d. 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.
- e. 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.
- f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- g. 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 margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- h. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- i. Repeat above procedures until all frequencies measured was complete.

#### Remark:

- 1) For emission below 1GHz, through pre-scan found the worst case is the lowest channel. Only the worst case is recorded in the report.
- 2) 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

- 3) Scan from 9kHz to 25GHz, the disturbance above 18GHz and below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
- 4) 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. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.
- 5) This test item was investigated while operating in SISO and MIMO mode, however, it was determined that SISO antenna 1 operation for b/g modulation and MIMO antenna operation for n modulation produced the worst emissions. So the emissions produced from other operation are not recorded in report.



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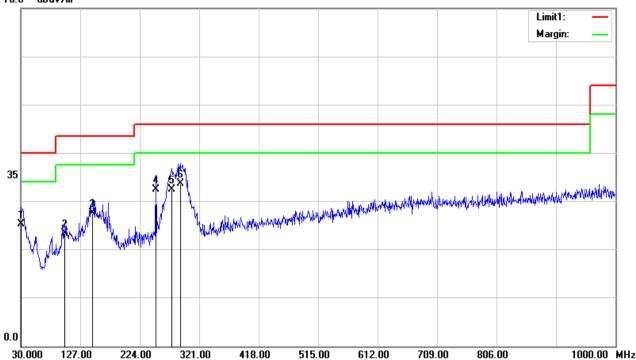


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30MHz-1GHz Horizontal

70.0 dBuV/m



No.	Frequency	Reading	Correct	Result	Limit	Margin	Height	Degree	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(deg.)	
1	30.9700	-0.02	25.38	25.36	40.00	-14.64	100	5	QP
2	101.7800	4.88	18.57	23.45	43.50	-20.05	100	9	QP
3	147.3700	7.57	20.05	27.62	43.50	-15.88	100	24	QP
4	250.1900	13.20	19.32	32.52	46.00	-13.48	100	20	QP
5	276.3800	12.40	20.01	32.41	46.00	-13.59	100	42	QP
6	289.9600	13.28	20.36	33.64	46.00	-12.36	100	13	QP



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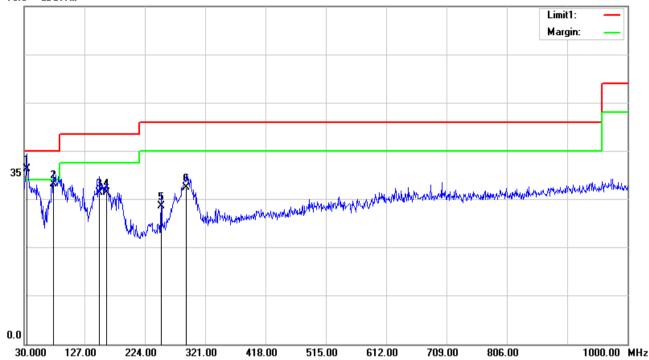


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#### Vertical





No.	Frequency	Reading	Correct	Result	Limit	Margin	Height	Degree	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(deg.)	
1	33.8800	12.53	23.72	36.25	40.00	-3.75	100	119	QP
2	76.5600	18.32	14.92	33.24	40.00	-6.76	114	360	QP
3	151.2500	11.38	20.04	31.42	43.50	-12.08	100	293	QP
4	161.9200	12.21	19.21	31.42	43.50	-12.08	100	144	QP
5	250.1900	9.32	19.32	28.64	46.00	-17.36	100	64	QP
6	290.9300	12.03	20.38	32.41	46.00	-13.59	100	280	QP



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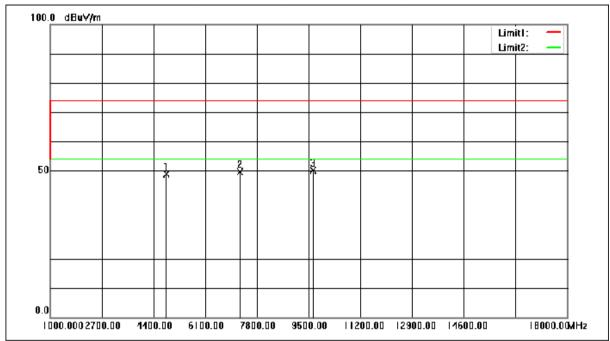


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#### Above 1GHz

Mode:a; Polarization:Horizontal; Modulation:b; bandwidth:20MHz; Channel:Low



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4824.000	57.70	-8.78	48.92	74.00	-25.08	peak
2	7236.000	55.60	-5.86	49.74	74.00	-24.26	peak
3	9648.000	51.56	-1.31	50.25	74.00	-23.75	peak



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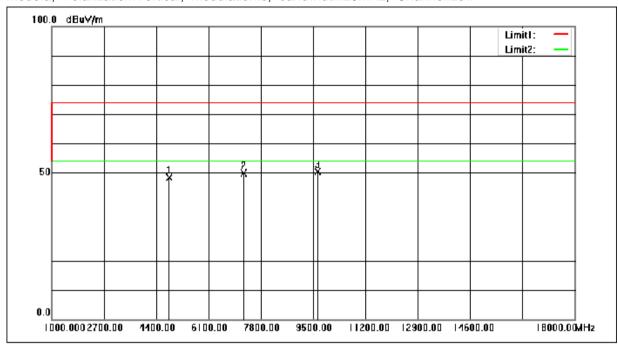
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Mode:a; Polarization:Vertical; Modulation:b; bandwidth:20MHz; Channel:Low



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4824.000	57.20	-8.78	48.42	74.00	-25.58	peak
2	7236.000	55.72	-5.86	49.86	74.00	-24.14	peak
3	9648.000	51.75	-1.31	50.44	74.00	-23.56	peak



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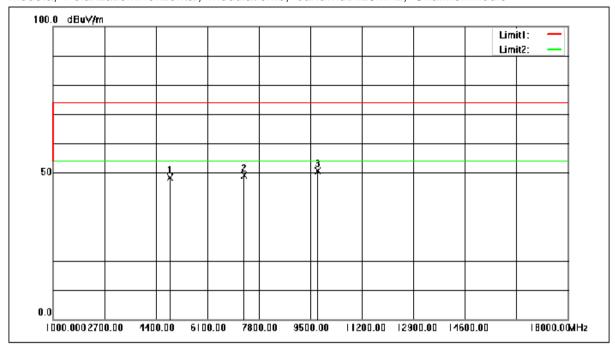
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### Mode:a; Polarization:Horizontal; Modulation:b; bandwidth:20MHz; Channel:middle



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4874.000	56.97	-8.61	48.36	74.00	-25.64	peak
2	7311.000	54.94	-5.78	49.16	74.00	-24.84	peak
3	9748.000	51.97	-1.43	50.54	74.00	-23.46	peak



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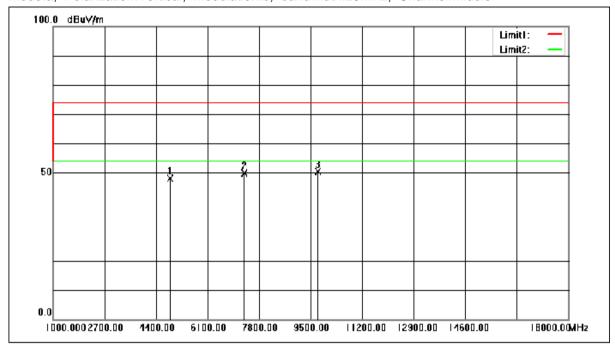
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### Mode:a; Polarization: Vertical; Modulation:b; bandwidth: 20MHz; Channel: middle



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4874.000	56.82	-8.61	48.21	74.00	-25.79	peak
2	7311.000	55.71	-5.78	49.93	74.00	-24.07	peak
3	9748.000	51.84	-1.43	50.41	74.00	-23.59	peak



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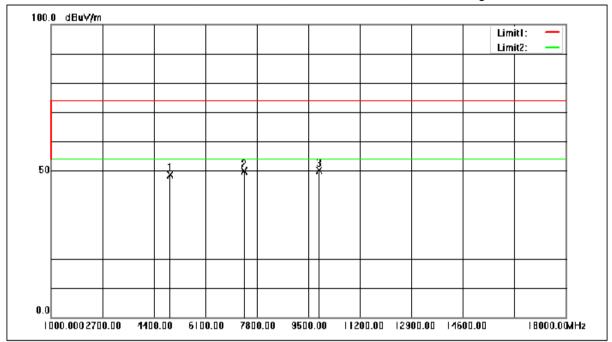
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### Mode:a; Polarization:Horizontal; Modulation:b; bandwidth:20MHz; Channel:High



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4924.000	57.16	-8.44	48.72	74.00	-25.28	peak
2	7386.000	55.57	-5.69	49.88	74.00	-24.12	peak
3	9848.000	51.48	-1.27	50.21	74.00	-23.79	peak



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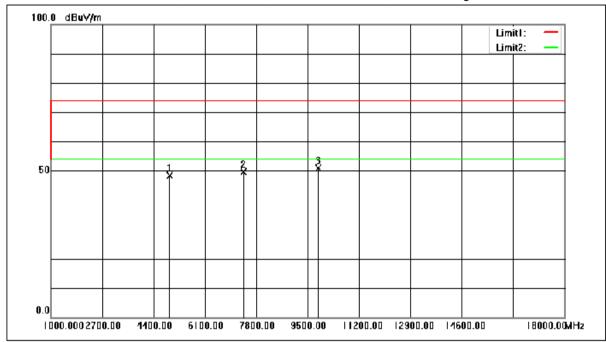
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Mode:a; Polarization:Vertical; Modulation:b; bandwidth:20MHz; Channel:High



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4924.000	56.79	-8.44	48.35	74.00	-25.65	peak
2	7386.000	55.23	-5.69	49.54	74.00	-24.46	peak
3	9848.000	52.13	-1.27	50.86	74.00	-23.14	peak



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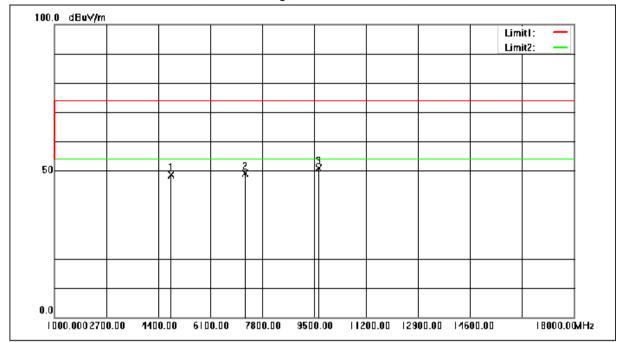
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#### Mode:a; Polarization:Horizontal; Modulation:g; bandwidth:20MHz; Channel:Low



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4824.000	57.41	-8.78	48.63	74.00	-25.37	peak
2	7236.000	54.97	-5.86	49.11	74.00	-24.89	peak
3	9648.000	52.18	-1.31	50.87	74.00	-23.13	peak



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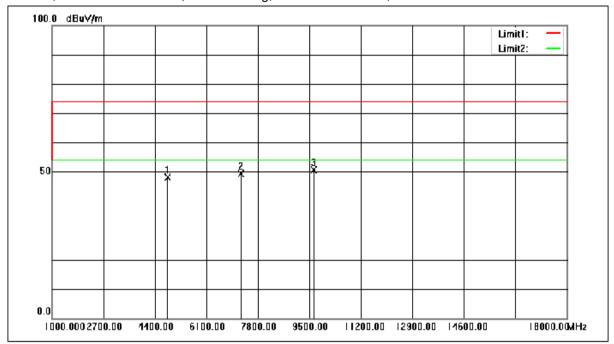
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### Mode:a; Polarization:Vertical; Modulation:g; bandwidth:20MHz; Channel:Low



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4824.000	56.82	-8.78	48.04	74.00	-25.96	peak
2	7236.000	55.21	-5.86	49.35	74.00	-24.65	peak
3	9648.000	51.83	-1.31	50.52	74.00	-23.48	peak



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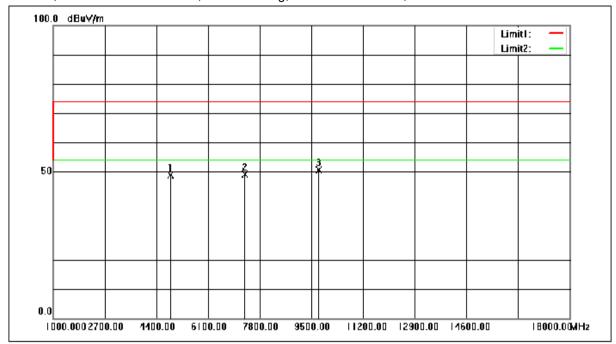
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### Mode:a; Polarization:Horizontal; Modulation:g; bandwidth:20MHz; Channel:middle



No.	Frequency		Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4874.000	57.46	-8.61	48.85	74.00	-25.15	peak
2	7311.000	54.88	-5.78	49.10	74.00	-24.90	peak
3	9748.000	52.00	-1.43	50.57	74.00	-23.43	peak



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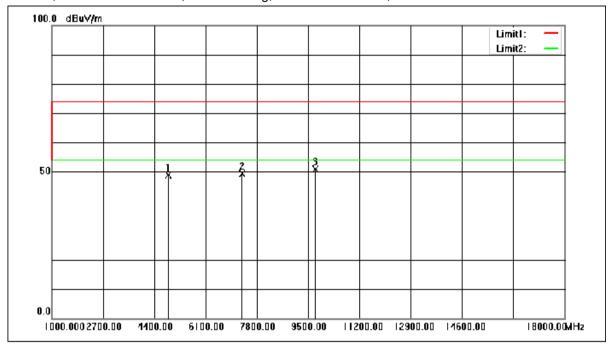
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### Mode:a; Polarization:Vertical; Modulation:g; bandwidth:20MHz; Channel:middle



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4874.000	57.55	-8.61	48.94	74.00	-25.06	peak
2	7311.000	55.12	-5.78	49.34	74.00	-24.66	peak
3	9748.000	52.24	-1.43	50.81	74.00	-23.19	peak



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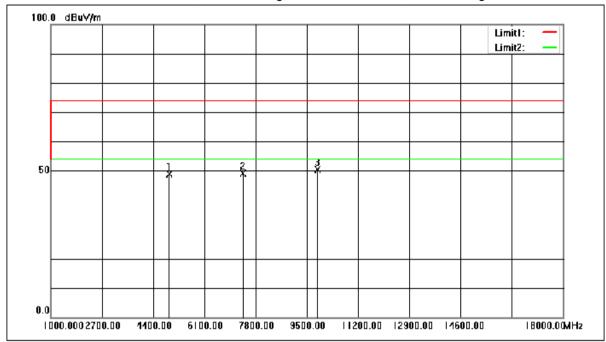
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### Mode:a; Polarization:Horizontal; Modulation:g; bandwidth:20MHz; Channel:High



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4924.000	57.26	-8.44	48.82	74.00	-25.18	peak
2	7386.000	54.90	-5.69	49.21	74.00	-24.79	peak
3	9848.000	51.57	-1.27	50.30	74.00	-23.70	peak



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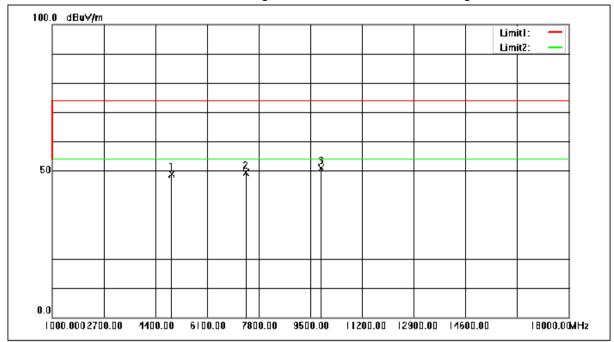
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#### Mode:a; Polarization:Vertical; Modulation:g; bandwidth:20MHz; Channel:High



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4924.000	57.22	-8.44	48.78	74.00	-25.22	peak
2	7386.000	55.10	-5.69	49.41	74.00	-24.59	peak
3	9848.000	52.13	-1.27	50.86	74.00	-23.14	peak



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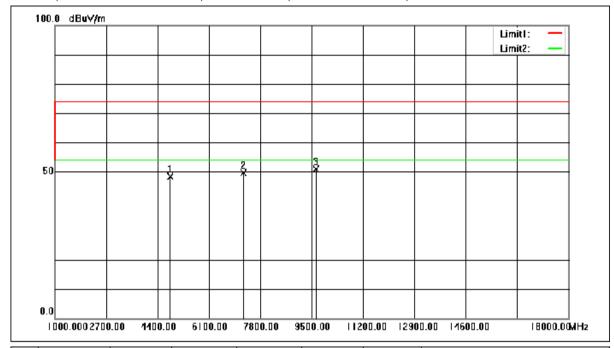
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### Mode:a; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:Low



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4824.000	57.16	-8.78	48.38	74.00	-25.62	peak
2	7236.000	55.59	-5.86	49.73	74.00	-24.27	peak
3	9648.000	52.23	-1.31	50.92	74.00	-23.08	peak



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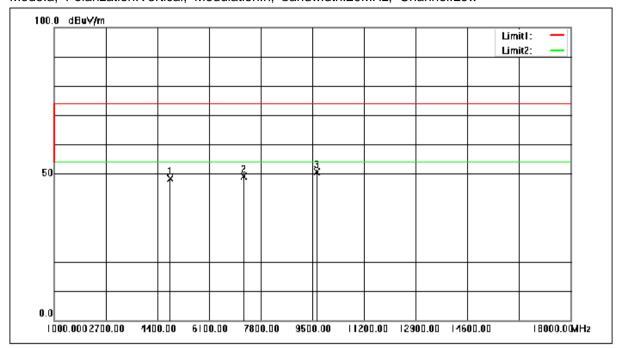
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## Mode:a; Polarization:Vertical; Modulation:n; bandwidth:20MHz; Channel:Low



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4824.000	57.15	-8.78	48.37	74.00	-25.63	peak
2	7236.000	54.91	-5.86	49.05	74.00	-24.95	peak
3	9648.000	51.95	-1.31	50.64	74.00	-23.36	peak



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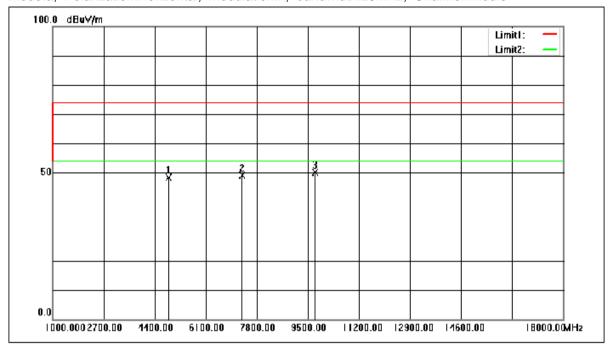
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#### Mode:a; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:middle



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4874.000	56.94	-8.61	48.33	74.00	-25.67	peak
2	7311.000	55.02	-5.78	49.24	74.00	-24.76	peak
3	9748.000	51.46	-1.43	50.03	74.00	-23.97	peak



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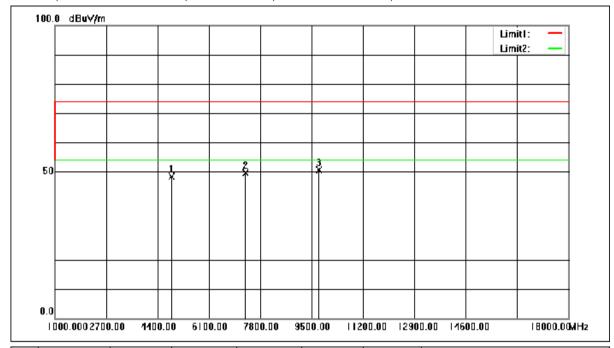
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#### Mode:a; Polarization: Vertical; Modulation:n; bandwidth: 20MHz; Channel: middle



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4874.000	56.92	-8.61	48.31	74.00	-25.69	peak
2	7311.000	55.31	-5.78	49.53	74.00	-24.47	peak
3	9748.000	52.04	-1.43	50.61	74.00	-23.39	peak



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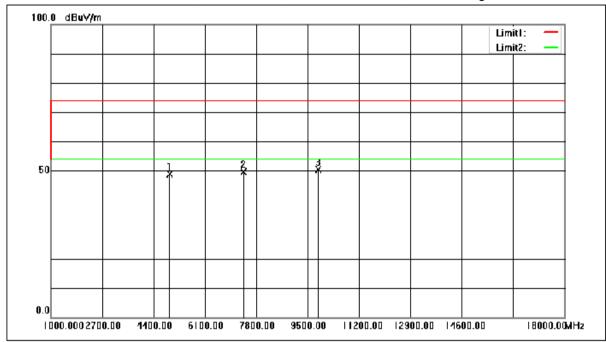
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#### Mode:a; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:High



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4924.000	57.25	-8.44	48.81	74.00	-25.19	peak
2	7386.000	55.38	-5.69	49.69	74.00	-24.31	peak
3	9848.000	51.74	-1.27	50.47	74.00	-23.53	peak



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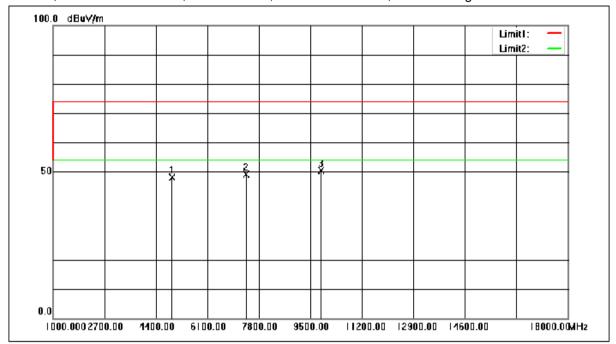
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#### Mode:a; Polarization:Vertical; Modulation:n; bandwidth:20MHz; Channel:High



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4924.000	56.67	-8.44	48.23	74.00	-25.77	peak
2	7386.000	54.76	-5.69	49.07	74.00	-24.93	peak
3	9848.000	51.53	-1.27	50.26	74.00	-23.74	peak



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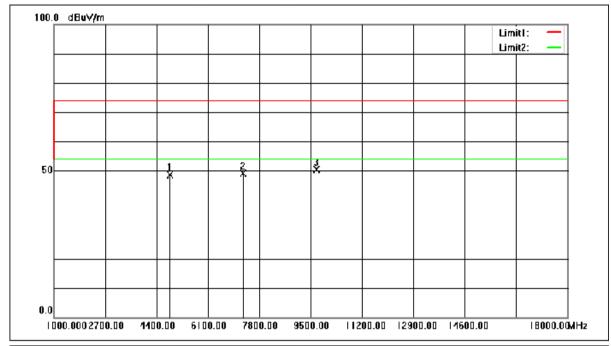
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#### Mode:a; Polarization:Horizontal; Modulation:n; bandwidth:40MHz; Channel:Low



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4844.000	57.27	-8.71	48.56	74.00	-25.44	peak
2	7266.000	55.06	-5.83	49.23	74.00	-24.77	peak
3	9688.000	51.70	-1.36	50.34	74.00	-23.66	peak



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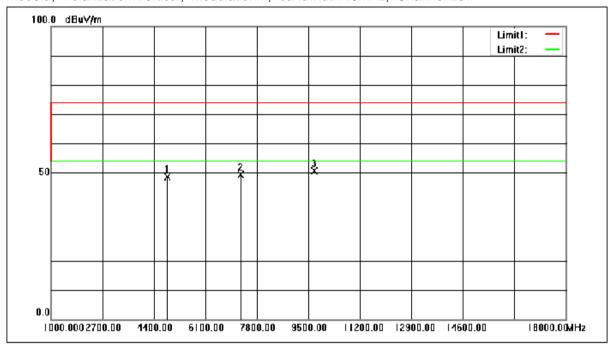
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Mode:a; Polarization:Vertical; Modulation:n; bandwidth:40MHz; Channel:Low



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4844.000	57.29	-8.71	48.58	74.00	-25.42	peak
2	7266.000	55.25	-5.83	49.42	74.00	-24.58	peak
3	9688.000	51.89	-1.36	50.53	74.00	-23.47	peak



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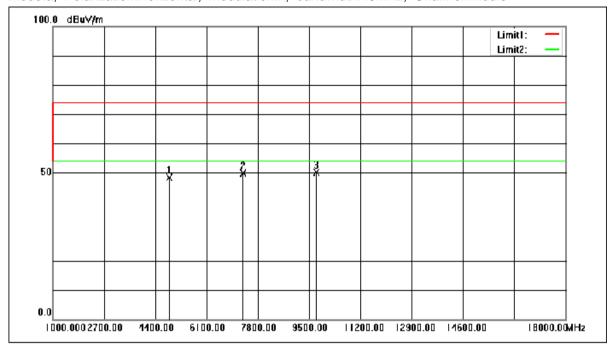
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#### Mode:a; Polarization:Horizontal; Modulation:n; bandwidth:40MHz; Channel:middle



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4874.000	56.98	-8.61	48.37	74.00	-25.63	peak
2	7311.000	55.68	-5.78	49.90	74.00	-24.10	peak
3	9748.000	51.52	-1.43	50.09	74.00	-23.91	peak



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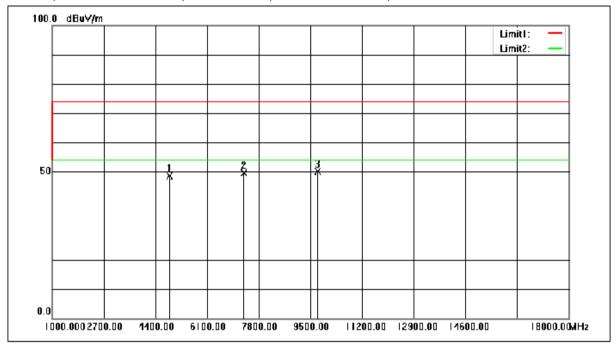
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#### Mode:a; Polarization:Vertical; Modulation:n; bandwidth:40MHz; Channel:middle



No.	Frequency		Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4874.000	57.16	-8.61	48.55	74.00	-25.45	peak
2	7311.000	55.35	-5.78	49.57	74.00	-24.43	peak
3	9748.000	51.61	-1.43	50.18	74.00	-23.82	peak



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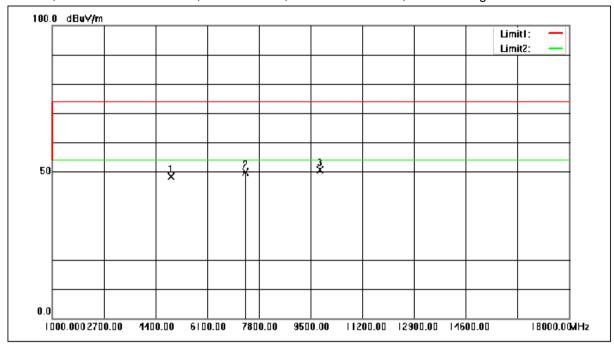
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#### Mode:a; Polarization:Horizontal; Modulation:n; bandwidth:40MHz; Channel:High



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4904.000	56.90	-8.51	48.39	74.00	-25.61	peak
2	7356.000	55.62	-5.73	49.89	74.00	-24.11	peak
3	9808.000	51.98	-1.47	50.51	74.00	-23.49	peak



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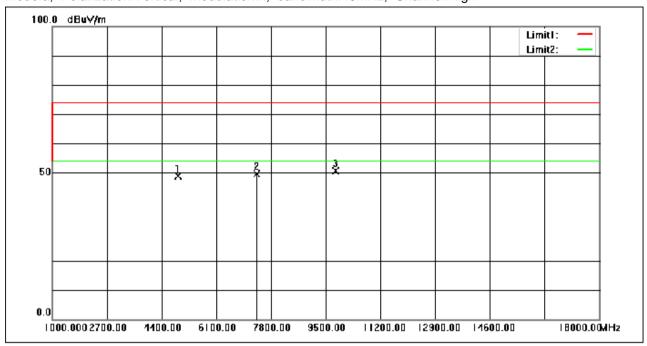
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Mode:a; Polarization:Vertical; Modulation:n; bandwidth:40MHz; Channel:High



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4904.000	57.33	-8.51	48.82	74.00	-25.18	peak
2	7356.000	55.34	-5.73	49.61	74.00	-24.39	peak
3	9808.000	52.05	-1.47	50.58	74.00	-23.42	peak



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# 7.9 99% Bandwidth

Test Requirement RSS-Gen Section 6.7
Test Method: ANSI C63.10 Section 6.9.3

## 7.9.1 E.U.T. Operation

Operating Environment:

Temperature: 24 °C Humidity: 50 % RH Atmospheric Pressure: 1010 mbar

Pretest these modes to find the worst case:

a:TX mode\_Powered by DC 12V via adapter and keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40). Only the data of worst case is recorded in the report.

b:TX mode\_Powered by DC 48V via PoE and keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40). Only the data of worst case is recorded in the report

The worst case for final test:

a:TX mode\_Powered by DC 12V via adapter and keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40). Only the data of worst case is recorded in the report.



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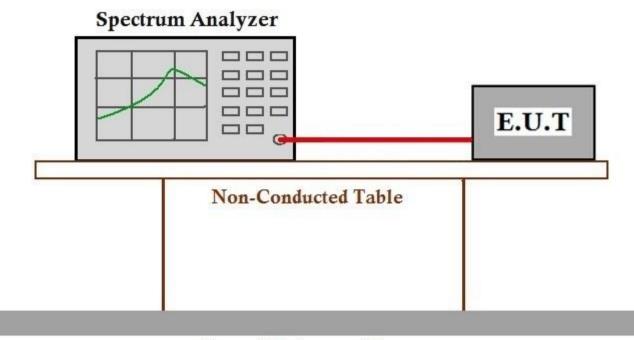
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#### 7.9.2 Test Setup Diagram



# Ground Reference Plane

#### 7.9.3 Measurement Procedure and Data

The detailed test data see: Appendix A for KSCR211100025501



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# 8 Test Setup Photographs

Refer to the < Test Setup photos-FCC>.

# 9 EUT Constructional Details

Refer to the < External Photos > & < Internal Photos >.

- End of the Report -



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