



## CFR 47 FCC PART 15 SUBPART E ISED RSS-247 ISSUE 2

#### **TEST REPORT**

For

**Dual Band Mesh Router, AX3000 Dual Band Mesh Router** 

MODEL NUMBER: NM3098B, NM3098

REPORT NUMBER: 4790899498.2-RF-2

ISSUE DATE: August 10, 2023

FCC ID: 2AW68-NM3098

Prepared for

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**Revision History** 

Rev.	Issue Date	Revisions	Revised By
V0	August 10, 2023	Initial Issue	



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**Summary of Test Results** 

Test Item Clause		Limit/Requirement	Result
ON TIME AND DUTY CYCLE	ANSI C63.10-2013, Clause 12.2	None; for reporting purposes only.	Pass
6dB AND 26dB EMISSION BANDWIDTH	KDB 789033 D02 v02r01 Section C.1	FCC Part 15.407 (a)/(e),	Pass
CONDUCTED OUTPUT POWER	KDB 789033 D02 v02r01 Section E.3.a (Method PM)	FCC 15.407 (a)	Pass
POWER SPECTRAL DENSITY	KDB 789033 D02 v02r01 Section F	FCC 15.407 (a)	Pass
AC Power Line Conducted Emission	ANSI C63.10-2013, Clause 6.2.	FCC 15.207	Pass
Radiated Emissions and Band Edge Measurement	KDB 789033 D02 v02r01 Section G.3, G.4, G.5, and G.6	FCC 15.407 (b) FCC 15.209 FCC 15.205	Pass
FREQUENCY STABILITY	ANSI C63.10-2013, Clause 6.8	FCC 15.407 (g)	Pass
Antenna Requirement	N/A	FCC 47 CFR Part 15.203/ 15.407(a)(1) (2),	Pass

#### Note:

<sup>1.</sup> N/A: In this whole report not applicable.

<sup>\*</sup>This test report is only published to and used by the applicant, and it is not for evidence purpose in China.

<sup>\*</sup>The measurement result for the sample received is <Pass> according to <CFR 47 FCC PART 15 SUBPART E > when <Accuracy Method> decision rule is applied.



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#### 1. ATTESTATION OF TEST RESULTS

**Applicant Information** 

Company Name: Shenzhen SDMC Technology Co.,Ltd.

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3rd Road, Dalang Community, Xin'an Street, Bao'an District,

Shenzhen

**Manufacturer Information** 

Company Name: Shenzhen SDMC Technology Co.,Ltd.

Address: Room 1022, Floor 10, Building A, Customs Building, No. 2, Xin'an

3rd Road, Dalang Community, Xin'an Street, Bao'an District,

Shenzhen

**EUT Information** 

**EUT Name**: Dual Band Mesh Router, AX3000 Dual Band Mesh Router

Model: NM3098B Serial Model: NM3098 Brand: **SDMC** 

Sample Received Date: June 26, 2023

Sample Status: Normal Sample ID: 6220436

Date of Tested: July 1, 2023 to August 10, 2023

APPLICABLE STANDARDS				
STANDARD TEST RESULTS				
CFR 47 FCC PART 15 SUBPART E	Pass			

Prepared By: kebo. zhanz	Checked By: Danny Guany
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**Operations Manager** 



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#### 2. TEST METHODOLOGY

All tests were performed in accordance with the standard CFR 47 FCC PART 15 SUBPART E, KDB 558074 D01 15.247 Meas Guidance v05r02, KDB 414788 D01 Radiated Test Site v01r01, KDB 662911 D01 Multiple Transmitter Output v02r01, CFR 47 FCC Part 2 and ANSI C63.10-2013.

## 3. FACILITIES AND ACCREDITATION

	A2LA (Certificate No.: 4102.01)  UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been assessed and proved to be in compliance with A2LA.  FCC (FCC Designation No.: CN1187)  UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. Has been recognized to perform compliance testing on equipment subject to the Commission's Declaration of Conformity (DoC) and Certification rules ISED (Company No.: 21320)  UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch.
Accreditation Certificate	FCC (FCC Designation No.: CN1187)  UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. Has been recognized to perform compliance testing on equipment subject to the Commission's Declaration of Conformity (DoC) and Certification rules ISED (Company No.: 21320)  UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been registered and fully described in a report filed with ISED.  The Company Number is 21320 and the test lab Conformity Assessment Body Identifier (CABID) is CN0046.
	VCCI (Registration No.: G-20019, R-20004, C-20012 and T-20011)  UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been assessed and proved to be in compliance with VCCI, the Membership No. is 3793.  Facility Name: Chamber D, the VCCI registration No. is G-20019 and R-20004  Shielding Room B, the VCCI registration No. is C-20012 and T-20011

#### Note1:

All tests measurement facilities use to collect the measurement data are located at Building 10, Innovation Technology Park, No. 1, Li Bin Road, Song Shan Lake Hi-Tech Development Zone Dongguan, 523808, People's Republic of China.

#### Note2:

The test anechoic chamber in UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch had been calibrated and compared to the open field sites and the test anechoic chamber is shown to be equivalent to or worst case from the open field site.

#### Note3:

For below 30 MHz, lab had performed measurements at test anechoic chamber and comparing to measurements obtained on an open field site. And these measurements below 30 MHz had been correlated to measurements performed on an OFS.



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## 4. CALIBRATION AND UNCERTAINTY

## 4.1. MEASURING INSTRUMENT CALIBRATION

The measuring equipment utilized to perform the tests documented in this report has been calibrated in accordance with the manufacturer's recommendations and is traceable to recognized national standards.

#### 4.2. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

Test Item	Uncertainty
Conduction emission	3.62 dB
Radiated Emission (Included Fundamental Emission) (9 kHz ~ 30 MHz)	2.2 dB
Radiated Emission (Included Fundamental Emission) (30 MHz ~ 1 GHz)	4.00 dB
	5.78 dB (1 GHz ~ 18 GHz)
Radiated Emission (Included Fundamental Emission) (1 GHz to 40 GHz)	5.23 dB (18 GHz ~ 26 GHz)
(	5.37 dB (26 GHz ~ 40 GHz)
Duty Cycle	±0.028%
Emission Bandwidth and 99% Occupied Bandwidth	±0.0196%
Maximum Conducted Output Power	±0.766 dB
Maximum Power Spectral Density Level	±1.22 dB
Frequency Stability	±2.76%
Conducted Band-edge Compliance	±1.328 dB
Conducted Unwanted Emissions In Non-restricted	±0.746 dB (9 kHz ~ 1 GHz)
Frequency Bands	±1.328dB (1 GHz ~ 26 GHz)

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



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# 5. EQUIPMENT UNDER TEST

## **5.1. DESCRIPTION OF EUT**

EUT Name:	Dual Band Mesh Router, AX3000 Dual Band Mesh Router
Model:	NM3098B
Serial Model:	NM3098
Model Difference:	NM3098B, NM3098 have the same technical construction including circuit diagram, PCB Layout, components and component layout, all electrical construction, and mechanical construction. The difference lies only the model number and NM3098B has three Gigabit Ethernet ports, NM3098 has only two Gigabit Ethernet ports and the network transformer in position T3 is removed.  All these changes do not degrade the unwanted emissions of the certified product.
Remark:	NM3098B and NM3098 both models have been considered and only the worst case model NM3098B data is recorded.
Frequency Range:	5180 MHz to 5240 MHz(U-NII-1) 5260 MHz to 5320 MHz(U-NII-2A) 5500 MHz to 5720 MHz(U-NII-2C) 5745 MHz to 5825 MHz(U-NII-3)
DFS Operational mode:	Master
Type of Modulation:	IEEE 802.11a: OFDM(64QAM, 16QAM, QPSK, BPSK) IEEE 802.11n: OFDM(64QAM, 16QAM, QPSK, BPSK) IEEE 802.11ac: OFDM(256QAM, 64QAM, 16QAM, QPSK, BPSK) IEEE 802.11ax: OFDMA (1024QAM, 256QAM, 64QAM, 16QAM, QPSK, BPSK)
Radio Technology:	IEEE802.11a/n HT20/n HT40/ ac VHT20/ac VHT40/ac VHT80/ac VHT160/ ax HE20/ax HE40/ax HE80/ax HE160
Normal Test Voltage:	AC 120 V, 60 Hz



# **5.2. CHANNEL LIST**

UNII-1 (For Bandwidth=20MHz)		UNII-1		UNII-1	
(FOI Dandwid	i(n=20101⊓2)	(For Bandwidth=40MHz)		(For Bandwidth=80MHz)	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
36	5180	38	5190	42	5210
40	5200	46	5230		
44	5220				
48	5240				

UNII-2A		UNII-2A		UNII-2A	
(For Bandwidth=20MHz)		(For Bandwidth=40MHz)		(For Bandwidth=80MHz)	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
52	5260	54	5270	58	5290
56	5280	62	5310		
60	5300				
64	5320				

UNII-2C		UNII-2C		UNII-2C	
(For Bandwidth=20MHz)		(For Bandwidth=40MHz)		(For Bandwidth=80MHz)	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
100	5500	102	5510	106	5530
104	5520	110	5550	122	5610
108	5540	118	5590	138	5690
112	5560	126	5630		
116	5580	134	5670		
120	5600	142	5710		
124	5620				
128	5640				
132	5660				
136	5680				
140	5700				
144	5720				

UNII-3 (For Bandwidth=20MHz)		UNII-3 (For Bandwidth=40MHz)		UNII-3 (For Bandwidth=80MHz)	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
149	5745	151	5755	155	5775
153	5765	159	5795		
157	5785				
161	5805				
165	5825				



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## **5.3. MAXIMUM POWER**

IEEE Std. 802.11	Frequency (MHz)	Maximum Average Conducted Power (dBm)
a		19.85
n HT20		20.96
n HT40		21.25
ac VHT80		21.06
ac VHT160	5180 ~ 5825	15.82
ax HE20		21.10
ax HE40		20.96
ax HE80		21.37
ax HE160		16.19



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## **5.4. TEST CHANNEL CONFIGURATION**

UNII-1 Test Channel Configuration				
IEEE Std.	Frequency			
802.11a	CH 36(Low Channel), CH 40(MID Channel), CH 48(High Channel)	5180 MHz, 5200 MHz, 5240 MHz		
802.11ax HE20	CH 36(Low Channel), CH 40(MID Channel), CH 48(High Channel)	5180 MHz, 5200 MHz, 5240 MHz		
802.11ax HE40	CH 38(Low Channel), CH 46(High Channel)	5190 MHz, 5230 MHz		
802.11ax HE80	CH 42(Low Channel)	5210 MHz		

UNII-2C Test Channel Configuration				
IEEE Std.	IEEE Std. Test Channel Number Frequency			
802.11a	CH 100(Low Channel), CH 116(MID Channel), CH 140(High Channel)	5500 MHz, 5580 MHz, 5700 MHz		
802.11ax HE20	CH 100(Low Channel), CH 116(MID Channel), CH 140(High Channel)	5500 MHz, 5580 MHz, 5700 MHz		
802.11ax HE40	CH 102(Low Channel), CH 110(MID Channel), CH 134(High Channel)	5510 MHz, 5550 MHz, 5670 MHz		
802.11ax HE80	CH 102(Low Channel), CH 122(High Channel)	5530 MHz, 5610 MHz		
802.11ax HE160	CH 114(Low Channel)	5570 MHz		





UNII-3 Test Channel Configuration				
IEEE Std. Test Channel Number Frequency				
802.11a	CH 149(Low Channel), CH 157(MID Channel), CH 165(High Channel)	5745 MHz, 5785 MHz, 5825 MHz		
802.11ax HE20	CH 149(Low Channel), CH 157(MID Channel), CH 165(High Channel)	5745 MHz, 5785 MHz, 5825 MHz		
802.11ax HE40	CH 151(Low Channel), CH 159(High Channel)	5755MHz, 5795MHz		
802.11ax HE80	CH 155(Low Channel)	5775 MHz		

Straddle Test Channel Configuration				
IEEE Std.	Test Channel Number	Frequency		
802.11a	CH 144	5720 MHz		
802.11ax HE20	CH 144	5720 MHz		
802.11ax HE40	CH 142	5710 MHz		
802.11ax HE80	CH 138	5690 MHz		
802.11ax HE160	CH 50	5250 MHz		





## 5.5. THE WORSE CASE POWER SETTING PARAMETER

The Worse Case Power Setting Parameter		
Test Software QA tool		

Mode	Freq(MHz)	Tx power level(dBm) (ANT0&ANT0)
	5180	18
	5200	18
	5240	18
	5260	18
	5280	18
	5320	18
000 44 -	5500	18
802.11a	5580	18
	5700	18
	5720-2C	18
	5720-3	18
	5745	18
	5785	18
	5825	18
	5180	18
	5200	18
	5240	18
	5260	17
	5280	17
	5320	17
	5500	17
802.11n 20M	5580	17
	5700	17
	5720-2C	17
	5720-3	17
	5745	18
	5785	18
	5825	18
	5190	18
	5230	18
	5270	18
802.11n 40M	5310	18
	5510	18
	5550	18
	5670	18



	5710-2C	18
	5710-3	18
	5755	18
	5795	18
	5210	18
	5290	18
	5530	18
802.11ac 80M	5610	18
	5690-2C	18
	5690-3	18
	5775	18
	5250-1	18
802.11ac 160M	5250-2	18
	5570	16
	5180	18
	5200	18
	5240	18
	5260	17
	5280	17
	5320	17
	5500	17
802.11ax 20M	5580	17
	5700	17
	5720-2C	17
	5720-3	17
	5745	18
	5785	18
	5825	18
	5190	18
	5230	18
	5270	18
	5310	18
000 44 4014	5510	18
802.11ax 40M	5550	18
	5670	18
	5710-2C	18
	5710-3	18
	5755	18
	5795	18
	5210	18
802.11ax 80M	5290	18
	5530	18





	5610	18
	5690-2C	18
	5690-3	18
	5775	18
	5250-1	18
802.11ax 160M	5250-2	18
	5570	17



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#### **5.6. WORSE CASE CONFIGURATIONS**

The EUT was tested in the following configuration(s):

Controlled in test mode using a software application on the EUT supplied by customer. The application was used to enable a continuous transmission and to select the mode, test channels, bandwidth, data rates as required.

Test channels referring to section 5.4.

Maximum power setting referring to section 5.5.

Worst case Data Rates declared by the customer:

802.11a 20 CDD mode: 6 Mbps 802.11n HT20 CDD mode: MCS0 802.11n HT40 CDD mode: MCS0 802.11ac VHT20 CDD mode: MCS0 802.11ac VHT40 CDD mode: MCS0 802.11ac VHT80 CDD mode: MCS0 802.11ac VHT160 CDD mode: MCS0 802.11ax HE20 CDD mode: MCS0 802.11ax HE40 CDD mode: MCS0 802.11ax HE40 CDD mode: MCS0 802.11ax HE80 CDD mode: MCS0

802.11a only support SISO mode.

All modes support TX beamforming mode except 802.11a 20.

802.11n HT20/HT40/ac VHT20/VHT40/VHT80/ax HE20/HE40/HE80 support SISO and MIMO mode.

802.11a SISO mode, Antenna 0 and Antenna 1 has the same power setting, so only Antenna 0 worst case test data were recorded in the report.

802.11n/ac/ax SISO mode and MIMO mode have the same power setting, so only the worst case power mode(MIMO) will be record in the report.

802.11ac VHT20 and VHT40 mode are different from 802.11nHT20 and HT40 only in control messages, so for these 4 modes, only 802.11n HT20 and 802.11n HT40 worst case power modes radiated emission test data are recorded in the report.

The EUT has three antenna, ANT 0 and ANT 1 can be used as transmitting/receiving antenna for both 2.4G and 5G band, ANT 2 only can used as receiving antenna for 5G band.

The measured additional path loss was included in any path loss calculations for all RF cable used during tested.

Radiated emissions tests were performed with the MIMO modes. These were found to be the worst modulation scheme with regards to emissions after preliminary investigations and, as this mode emits the highest conducted output power level, it was deemed to be the worst case.

The EUT support Cyclic Shift Diversity(CDD), Space Time Coding(STBC), Spartial Division Multiplexing(SDM) modes and TX Beamforming. They use the same conducted power per chain in any given mode, so we only chose the worst case mode CDD for final testing.



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The EUT not support partial Rus and channel puncturing mode.

The EUT Simultaneous Transmission combination as below:

NO	Combination
1	5G Wi-Fi + 2.4GHz Wi-Fi

Note: The emission of the simultaneous operation has been evaluated and no non-compliance was found. Only the worst-case data record in this report.



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## 5.7. DESCRIPTION OF AVAILABLE ANTENNAS

Antenna No.	Frequency Band	Antenna Type	Max Antenna Gain (dBi)
0	5150-5850	PCB	4.2
1	5150-5850	PCB	3.71
2	5150-5850	PCB	5.67

The EUT support Cyclic Shift Diversity(CDD) mode.

MIMO output power port and MIMO PSD port summing were performed in accordance with KDB 662911 D01. For the CDD results the Directional Gain was calculated in accordance with the following mothed.

For output power measurements:

Directional gain= GANT + Array Gain = 4.2 dBi

G<sub>ANT</sub>: equal to the gain of the antenna having the highest gain

Array Gain = 0 dB (i.e., no array gain) for N<sub>ANT</sub> ≤ 4

For power spectral density (PSD) measurements:

Directional gain= Gant + Array Gain = 7.21 dBi

Array Gain = 10 log(N<sub>ANT</sub>/N<sub>SS</sub>) dB. N<sub>ANT</sub> : number of transmit antennas

Nss: number of spatial streams, The worst case directional gain will occur when Nss = 1

The EUT also support TX Beamforming mode.

Directional gain = Gant + 10 log(Nant/Nss)=7.21 dBi

IEE Std. 802.11	Transmit and Receive Mode	Description
802.11a	≥ 2TX, 3RX	
802.11n HT20		
802.11n HT40	⊠2TX, 3RX	
802.11ac VHT20	∑2TX, 3RX	
802.11ac VHT40	∑2TX, 3RX	
802.11ac VHT80	⊠2TX, 3RX	ANT 0 and ANT 1 can be used as transmitting/receiving antenna. ANT 2 only can be used as receiving antenna.
802.11ac VHT160	⊠2TX, 3RX	antenna. 7001 2 only our be used as receiving antenna.
802.11ax HE20	⊠2TX, 3RX	
802.11ax HE40	⊠2TX, 3RX	
802.11ax HE80	⊠2TX, 3RX	
802.11ax HE160	⊠2TX, 3RX	

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## **5.8. SUPPORT UNITS FOR SYSTEM TEST**

### SUPPORT EQUIPMENT

Item	Equipment	Brand Name	Model Name	Remarks
1	Laptop	ThinkPad	X230i	1
2	RJ45 Dummy Load	1	1	1
3	RJ45 Dummy Load	1	1	1

#### **I/O CABLES**

Cable No	Port	Connector Type	Cable Type	Cable Length(m)	Remarks
1	LAN1	RJ45	Unshielded	1.0 m	1
2	LAN2	RJ45	Unshielded	0.1 m	1
3	LAN3	RJ45	Unshielded	0.1 m	/

### **ACCESSORIES**

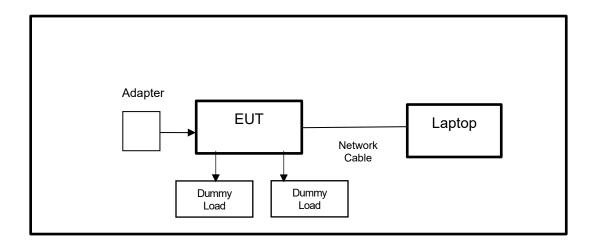
Item	Accessory	Brand Name	Model Name	Description
1	Adapter	SUNUN	SA12BV- 120100U	Input: AC 100-240 V, 50 / 60 Hz, 0.4 A Output: DC 12.0 V, 1 A
2	Adapter	FRECOM	F12L33- 120100SPAU	Input: AC 100-240Vac, 50/60Hz, 0.3A. Output: 12.0Vdc, 1.0A

Note: Both adapters have been considered and only the worst model (SA12BV-120100U) was recorded.

#### **TEST SETUP**

The EUT can work in engineering mode with a software through a laptop.

## **SETUP DIAGRAM FOR TESTS**





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## 6. MEASURING EQUIPMENT AND SOFTWARE USED

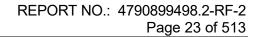
		R8	S TS	8997 Te	st Sy	/stem			
Equipment		Manufac	turer	Model I	No.	Serial No.	Last C	al.	Due. Date
Power sensor, Power M	eter	R&9	3	OSP1	20	100921	Mar.31,2	2023	Mar.30,2024
Vector Signal Generat	or	R&S	3	SMBV1	00A	261637	Oct.17, 2	2022	Oct.16, 2023
Signal Generator		R&S	3	SMB10	00A	178553	Oct.17, 2	2022	Oct.16, 2023
Signal Analyzer		R&S	3	FSV4	.0	101118	Oct.17, 2	2022	Oct.16, 2023
				Software	е				
Description			Manu	facturer		Nam	ie		Version
For R&S TS 8997 Test S	Syster	m Ro	hde 8	& Schwar	Z	EMC	32		10.60.10
		То	nsen	d RF Tes	st Sy	stem			
Equipment	Manı	ufacturer	Мо	del No.	5	Serial No.	Last C	Cal.	Due. Date
Wideband Radio Communication Tester	F	R&S	CM	1W500		155523	Oct.17,	2022	Oct.16, 2023
Wireless Connectivity Tester	F	R&S	CM	1W270	120	1.0002N75- 102	Sep.28,	2022	Sep.27, 2023
PXA Signal Analyzer	Ke	ysight	N9	9030A	M١	755410512	Oct.17,	2022	Oct.16, 2023
MXG Vector Signal Generator	Ke	ysight	N5	5182B	M	756200284	Oct.17,	2022	Oct.16, 2023
MXG Vector Signal Generator	Ke	eysight	N5	5172B	MY	/56200301	Oct.17,	2022	Oct.16, 2023
DC power supply	Ke	ysight	E3	3642A	M١	755159130	Oct.17,	2022	Oct.16, 2023
Temperature & Humidity Chamber	SAN	NMOOD SG-8		80-CC-2		2088	Oct.17,	2022	Oct.16, 2023
Attenuator	A	glient 849		495B	28	314a12853	Oct.18,	2022	Oct.17, 2023
RF Control Unit	Tor	nscend JS0806		0806-2	231	B80620666	April 18,	,2023	April 17,2024
Software									
Description		Manufac	turer	Name				Version	
Tonsend SRD Test System Tonsend			nd	JS1	120-	3 RF Test S	ystem		V3.2.22





	Conducted Emissions						
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due Date		
EMI Test Receiver	R&S	ESR3	101961	Oct.17, 2022	Oct.16, 2023		
Two-Line V- Network	R&S	ENV216	101983	Oct.17, 2022	Oct.16, 2023		
Artificial Mains Networks	Schwarzbeck	NSLK 8126	8126465	Oct.17, 2022	Oct.16, 2023		
Software							
Description			Manufacturer	Name	Version		
Test Software for Conducted Emissions			Farad	EZ-EMC	Ver. UL-3A1		

	Radiated Emissions						
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due Date		
MXE EMI Receiver	KESIGHT	N9038A	MY56400036	Oct.17, 2022	Oct.16, 2023		
Hybrid Log Periodic Antenna	TDK	HLP-3003C	130959	Aug.02, 2021	Aug.01, 2024		
Preamplifier	HP	8447D	2944A09099	Oct.17, 2022	Oct.16, 2023		
EMI Measurement Receiver	R&S	ESR26	101377	Oct.17, 2022	Oct.16, 2023		
Horn Antenna	TDK	HRN-0118	130940	July 20, 2021	July 19, 2024		
Preamplifier	TDK	PA-02-0118	TRS-305-00067	Oct.17, 2022	Oct.16, 2023		
Horn Antenna	Schwarzbeck	BBHA9170	697	July 20, 2021	July 19, 2024		
Preamplifier	TDK	PA-02-2	TRS-307-00003	Oct.17, 2022	Oct.16, 2023		
Preamplifier	TDK	PA-02-3	TRS-308-00002	Oct.17, 2022	Oct.16, 2023		
Loop antenna	Schwarzbeck	1519B	00008	Dec.14, 2021	Dec.13, 2024		
Preamplifier	TDK	PA-02-001- 3000	TRS-302-00050	Oct.17, 2022	Oct.16, 2023		
Preamplifier	Mini-Circuits	ZX60-83LN-S+	SUP01202035	Oct.17, 2022	Oct.16, 2023		
High Pass Filter	Wi	WHKX10- 2700-3000- 18000-40SS	23	Dec.01,2022	Nov.30,2023		
Highpass Filter	Wainwright	WHKX10- 5850-6500- 1800-40SS	4	Dec.01,2022	Nov.30,2023		
Band Reject Filter	Wainwright	WRCJV12- 5695-5725- 5850-5880- 40SS	4	Dec.01,2022	Nov.30,2023		
Band Reject Filter	Wainwright	WRCJV20- 5120-5150- 5350-5380- 60SS	2	Dec.01,2022	Nov.30,2023		
Band Reject Filter	Wainwright	WRCJV20- 5440-5470-	1	Dec.01,2022	Nov.30,2023		





		5725-5755-			
		60SS			
		WRCJV8-			
Band Reject Filter	Wainwright	2350-2400-	4	Dec.01,2022	Nov.30,2023
Dand Neject Filter	vvairiwrigitt	2483.5-	7	Dec.01,2022	1404.30,2023
		2533.5-40SS			
		WRCD5-1879-			
Band Reject Filter	Wainwright	1879.85-	1	Dec.01,2022	Nov.30,2023
Dana Roject i ilici	vvairivvrigiti	1880.15-1881-	- '	DC0.01,2022	1404.00,2020
		40SS			
		WHJ10-882-			
Notch Filter	Wainwright	980-7000-	1	Dec.01,2022	Nov.30,2023
		40SS			
Software					
Description			Manufacturer	Name	Version
Test Software for Radiated Emissions			Farad	EZ-EMC	Ver. UL-3A1

Other Instrument					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due Date
Temperature humidity probe	OMEGA	ITHX-SD-5	18470007	Oct.22, 2022	Oct.21, 2023
Barometer	Yiyi	Baro	N/A	Oct.24, 2022	Oct.23, 2023
Attenuator	Agilent	8495B	2814a12853	Oct.18, 2022	Oct.17, 2023



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## 7. ANTENNA PORT TEST RESULTS

## 7.1. ON TIME AND DUTY CYCLE

#### **LIMITS**

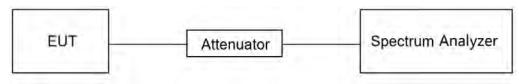
None; for reporting purposes only.

#### **TEST PROCEDURE**

Refer to KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 section II.B.

The zero-span mode on a spectrum analyzer or EMI receiver, if the response time and spacing between bins on the sweep are sufficient to permit accurate measurements of the on and off times of the transmitted signal. Set the center frequency of the instrument to the center frequency of the transmission. Set RBW ≥ EBW if possible; otherwise, set RBW to the largest available value. Set VBW ≥ RBW. Set detector = peak or average. The zero-span measurement method shall not be used unless both RBW and VBW are > 50/T, where T is defined in II.B.1.a), and the number of sweep points across duration T exceeds 100. (For example, if VBW and/or RBW are limited to 3 MHz, then the zero-span method of measuring duty cycle shall not be used if T ≤ 16.7 microseconds.)

### **TEST SETUP**



#### **TEST ENVIRONMENT**

Temperature	26.4°C	Relative Humidity	51.7%
Atmosphere Pressure	101kPa	Test Voltage	AC 120 V 60 Hz

### **TEST DATE / ENGINEER**

	Test Date	July 12, 2023	Test By	Johnson Liu
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#### **TEST RESULTS**

Please refer to section "Test Data" - Appendix E.



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7.2.6DB AND 26DB EMISSION BANDWIDTH AND 99% OCCUPIED BANDWIDTH

#### **LIMITS**

CFR 47 FCC Part15, Subpart E					
Test Item	Limit	Frequency Range (MHz)			
26 dB Emission Bandwidth	For reporting purposes only.	5150 ~ 5250			
26 dB Emission Bandwidth	For reporting purposes only.	5250 ~ 5350			
26 dB Emission Bandwidth	For reporting purposes only.	5470 ~ 5725			
6 dB Emission Bandwidth	The minimum 6 dB emission bandwidth shall be 500 kHz.	5725 ~ 5850			
99 % Occupied Bandwidth	For reporting purposes only.	5150 ~ 5825			

#### **TEST PROCEDURE**

Refer to KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 section II.C1. for 26 dB Emission Bandwidth; section II.C2. for 6 dB Emission Bandwidth; section II.D. for 99 % Occupied Bandwidth.

Connect the EUT to the spectrum analyser and use the following settings:

Center Frequency	The center frequency of the channel under test	
Detector	Peak	
RBW	For 6 dB Emission Bandwidth: RBW=100 kHz For 26 dB Emission bandwidth: approximately 1 % of the EBW. For 99 % Occupied Bandwidth: approximately 1 % ~ 5 % of the OBW.	
VBW	For 6 dB Bandwidth: ≥ 3*RBW For 26 dB Bandwidth: >3*RBW For 99 % Bandwidth: >3*RBW	
Trace	Max hold	
Sweep	Auto couple	

a) Use the 99 % power bandwidth function of the instrument, allow the trace to stabilize and report the measured bandwidth.

#### Calculation for 99 % Bandwidth of UNII-2C and UNII-3 Straddle Channel:

For Example: Fundamental Frequency: 5720 MHz

99 % OBW: 21.00 MHz

Turning Frequency: 5725 MHz

99 % Bandwidth of UNII-2C Band Portion = (5725-(5720-(21.00/2)) = 15.50 MHz

99 % Bandwidth of UNII-3 Band Portion = (5720+(21.00/2)-5725) = 5.50 MHz

### Calculation for 26 dB Bandwidth of UNII-2C Straddle Channel:

For Example: Fundamental frequency: 5720 MHz

26 dB BW: 20.00 MHz FL: 5710.16 MHz FH: 5730.16 MHz

b) Allow the trace to stabilize and measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6/26 dB relative to the maximum level measured in the fundamental emission.



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Turning Frequency: 5725 MHz

26 dB Bandwidth of UNII-2C Band Portion = 5725-5710.16=14.84 MHz

## Calculation for 6dB Bandwidth of UNII-3 Straddle Channel:

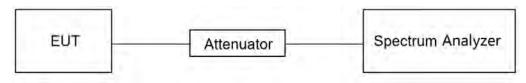
For Example: Fundamental frequency: 5720 MHz

6 dB BW: 16.44 MHz FL: 5711.76 MHz FH: 5728.2 MHz

Turning Frequency: 5725 MHz

6 dB Bandwidth of UNII-3 band Portion = 5728.2-5725=3.2 MHz

### **TEST SETUP**



## **TEST ENVIRONMENT**

Temperature	26.4°C	Relative Humidity	51.7%
Atmosphere Pressure	101kPa	Test Voltage	AC 120 V 60 Hz

### **TEST DATE / ENGINEER**

Toot Data	July 12, 2023	Toet By	Johnson Liu
l est Date	July 12, 2023	I est by	Johnson Liu

### **TEST RESULTS**

Please refer to section "Test Data" - Appendix A1&A2&A3.



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## 7.3. CONDUCTED OUTPUT POWER

#### **LIMITS**

CFR 47 FCC Part15, Subpart E		
Test Item	Limit	Frequency Range (MHz)
Conducted	<ul> <li>☐ Outdoor Access Point: 1 W (30 dBm)</li> <li>☑ Indoor Access Point: 1 W (30 dBm)</li> <li>☐ Fixed Point-To-Point Access Points: 1 W (30 dBm)</li> <li>☐ Client Devices: 250 mW (24 dBm)</li> </ul>	5150 ~ 5250
Output Power	Shall not exceed the lesser of 250 mW (24dBm) or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in megahertz.	5250 ~ 5350 5470 ~ 5725
	Shall not exceed 1 Watt (30 dBm).	5725 ~ 5850

#### Note:

The above limits are based upon the maximum antenna gain does not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, the maximum conducted output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

#### **TEST PROCEDURE**

Refer to KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 section II.E.

## Method SA-2 (trace averaging across ON and OFF times of the EUT transmissions, followed by duty cycle correction.):

- (a) Measure the duty cycle D of the transmitter output signal.
- (b) Set span to encompass the entire 26 dB EBW or 99% OBW of the signal.
- (c) Set RBW = 1 MHz.
- (d) Set VBW ≥ 3 MHz.
- (e) Number of points in sweep ≥ [2 × span / RBW]. (This gives bin-to-bin spacing ≤ RBW / 2, so that narrowband signals are not lost between frequency bins.)
- (f) Sweep time = auto.
- (g) Detector = RMS (i.e., power averaging), if available. Otherwise, use sample detector mode.
- (h) Do not use sweep triggering. Allow the sweep to "free run."
- (i) Trace average at least 100 traces in power averaging (rms) mode; however, the number of traces to be averaged shall be increased above 100 as needed such that the average accurately represents the true average over the ON and OFF periods of the transmitter.
- j) Compute power by integrating the spectrum across the 26 dB EBW or 99% OBW of the signal using the instrument's band power measurement function with band limits set equal to the EBW or OBW band edges. If the instrument does not have a band power function, then sum the spectrum levels (in power units) at 1 MHz intervals extending across the 26 dB EBW or 99% OBW of the spectrum.
- k) Add [10 log (1 / D)], where D is the duty cycle, to the measured power to compute the average power during the actual transmission times (because the measurement represents an average over both the ON and OFF times of the transmission). For example, add [10 log (1 / 0.25)] = 6 dB if the duty cycle is 25%.

### Method PM (Measurement using an RF average power meter):

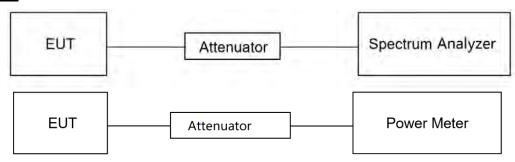
- (i) Measurements may be performed using a wideband RF power meter with a thermocouple detector or equivalent if all of the following conditions are satisfied:
- a. The EUT is configured to transmit continuously or to transmit with a constant duty cycle.



- b. At all times when the EUT is transmitting, it must be transmitting at its maximum power control level.
- c. The integration period of the power meter exceeds the repetition period of the transmitted signal by at least a factor of five.
- (ii) If the transmitter does not transmit continuously, measure the duty cycle, x, of the transmitter output signal as described in II.B.
- (iii) Measure the average power of the transmitter. This measurement is an average over both the on and off periods of the transmitter.
- (iv) Adjust the measurement in dBm by adding 10 log (1/x) where x is the duty cycle (e.g., 10 log (1/0.25) if the duty cycle is 25 %).

Note: Method SA-2 was used for straddle channel output power test, and Method PM was used for testing rest channels

### **TEST SETUP**



### **TEST ENVIRONMENT**

Temperature	26.4°C	Relative Humidity	51.7%
Atmosphere Pressure	101kPa	Test Voltage	AC 120 V 60 Hz

### **TEST DATE / ENGINEER**

Test Date	July 12, 2023	Test Ry	Johnson Liu
1 est Date	July 12, 2023	1 est by	JOHNSON LIU

#### **TEST RESULTS**

Please refer to section "Test Data" - Appendix D



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### 7.4. POWER SPECTRAL DENSITY

#### **LIMITS**

CFR 47 FCC Part15, Subpart E		
Test Item	Limit	Frequency Range (MHz)
Power Spectral Density	☐ Outdoor Access Point: 17 dBm/MHz ☐ Indoor Access Point: 17 dBm/MHz ☐ Fixed Point-To-Point Access Points: 17 dBm/MHz ☐ Client Devices: 11 dBm/MHz	5150 ~ 5250
Bonoky	11 dBm/MHz	5250 ~ 5350 5470 ~ 5725
	30 dBm/500kHz	5725 ~ 5850

#### Note:

The above limits are based upon the maximum antenna gain does not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

### **TEST PROCEDURE**

Refer to KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 section II.F.

Connect the EUT to the spectrum analyser and use the following settings:

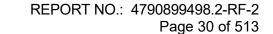
### For U-NII-1, U-NII-2A and U-NII-2C band:

Center Frequency	The center frequency of the channel under test
Detector	RMS
RBW	1 MHz
VBW	≥3 × RBW
Span	Encompass the entire emissions bandwidth (EBW) of the signal
Trace	Max hold
Sweep time	Auto

## For U-NII-3:

Center Frequency	The center frequency of the channel under test	
Detector	RMS	
RBW	500 kHz	
VBW	≥3 × RBW	
Span	Encompass the entire emissions bandwidth (EBW) of the signal	
Trace	Max hold	
Sweep time	Auto	

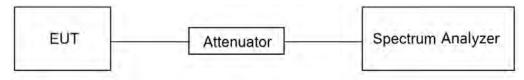
Allow trace to fully stabilize and Use the peak search function on the instrument to find the peak of the spectrum and record its value.





Add 10 log (1/x), where x is the duty cycle, to the peak of the spectrum, the result is the Maximum PSD over 1 MHz / 500 kHz reference bandwidth.

### **TEST SETUP**



### **TEST ENVIRONMENT**

Temperature	26.4°C	Relative Humidity	51.7%
Atmosphere Pressure	101kPa	Test Voltage	AC 120 V 60 Hz

### **TEST DATE / ENGINEER**

Test Date	July 12, 2023	Test By	Johnson Liu

### **TEST RESULTS**

Please refer to section "Test Data" - Appendix C



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### 7.5. FREQUENCY STABILITY

#### LIMITS

The frequency of the carrier signal shall be maintained within band of operation.

### **TEST PROCEDURE**

- 1. The EUT was placed inside an environmental chamber as the temperature in the chamber was varied between 0 °C ~ 40 °C (declared by customer).
- 2. The temperature was incremented by 10 °C intervals and the unit allowed to stabilize at each temperature before each measurement. The center frequency of the transmitting channel was evaluated at each temperature and the frequency deviation from the channel's center frequency was recorded.
- 3. The primary supply voltage is varied from 85 % to 115 % of the nominal value for non hand-carried battery and AC powered equipment. For hand-carried, battery-powered equipment, primary supply voltage is reduced to the battery operating end point which shall be specified by the manufacturer.

Connect the EUT to the spectrum analyser and use the following settings:

Center Frequency	The center frequency of the channel under test
Detector	Peak
RBW	10 kHz
VBW	≥3 × RBW
Span	Encompass the entire emissions bandwidth (EBW) of the signal
Trace	Max hold
Sweep time	Auto

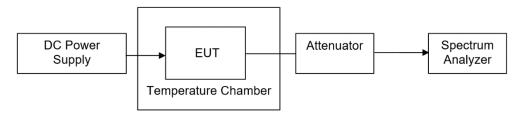
- 4. While maintaining a constant temperature inside the environmental chamber, turn the EUT on and record the operating frequency at startup, and at 2 minutes, 5 minutes, and 10 minutes after the EUT is energized.
- 5. Allow the trace to stabilize, find the peak value of the power envelope and record the frequency, then calculated the frequency drift.

### **TEST ENVIRONMENT**

	Normal Test Conditions	Extreme Test Conditions	
Relative Humidity	20 % - 75 %	1	
Atmospheric Pressure	100 kPa ∼102 kPa	1	
Temperature	T <sub>N</sub> (Normal Temperature):	T <sub>L</sub> (Low Temperature): 0 °C	
remperature	25.1 °C	T <sub>H</sub> (High Temperature): 40 °C	
Cupply Voltage	\/\(\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	V <sub>L</sub> (Low Voltage): AC 102V	
Supply Voltage	V <sub>N</sub> (Normal Voltage): AC 120 V	V <sub>H</sub> (High Voltage): AC 138 V	



### **TEST SETUP**



### **TEST ENVIRONMENT**

Temperature	26.4°C	Relative Humidity	51.7%
Atmosphere Pressure	101kPa	Test Voltage	AC 120 V 60 Hz

#### **TEST DATE / ENGINEER**

Test Date	July 12, 2023	Test By	Johnson Liu

### **TEST RESULTS**

Please refer to section "Test Data" - Appendix D

## 8. RADIATED TEST RESULTS

#### **LIMITS**

Refer to CFR 47 FCC §15.205, §15.209 and §15.407 (b).

Refer to ISED RSS-GEN Clause 8.9, Clause 8.10 and ISED RSS-247 6.2.

Radiation Disturbance Test Limit for FCC (Class B) (9 kHz ~ 1 GHz)

Emissions radiated outside of the specified frequency bands above 30 MHz			
Frequency Range (MHz)	Field Strength Limit (uV/m) at 3 m	Field Stren (dBuV/m)	
(1011 12)	(uv/iii) at 3 iii	Quasi-l	
30 - 88	100	40	
88 - 216	150	43.	5
216 - 960	200	46	
Above 960	500	54	
Above 1000	500	Peak	Average
Above 1000	500	74	54

FCC Emissions radiated outside of the specified frequency bands below 30 MHz			
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	

## ISED General field strength limits at frequencies below 30 MHz

Table 6 – General field strength limits at frequencies below 30 MHz		
Frequency	Magnetic field strength (H-Field) (μA/m)	Measurement distance (m)
9 - 490 kHz <sup>Note 1</sup>	6.37/F (F in kHz)	300
490 - 1705 kHz	63.7/F (F in kHz)	30
1.705 - 30 MHz	0.08	30

**Note 1:** The emission limits for the ranges 9-90 kHz and 110-490 kHz are based on measurements employing a linear average detector.

ISED Restricted bands refer to ISED RSS-GEN Clause 8.10



MHz	MHz	GHz
0.090 - 0.110	149.9 - 150.05	9.0 - 9.2
0.495 - 0.505	158.52475 - 158.52525	9.3 - 9.5
2.1735 - 2.1905	156.7 - 156.9	10.6 - 12.7
3.020 - 3.028	182.0125 - 187.17	13.25 - 13.4
4.125 - 4.128	167.72 - 173.2	14.47 - 14.5
4.17725 - 4.17775	240 – 285	15.35 - 16.2
4.20725 - 4.20775	322 - 335.4	17.7 - 21.4
5.677 - 5.683	399.9 - 410	22.01 - 23.12
8.215 - 6.218	608 - 614	23.6 - 24.0
3.26775 - 6.26825	960 - 1427	31.2 - 31.8
8.31175 - 6.31225	1435 - 1626.5	36.43 - 36.5
8.291 - 8.294	1645.5 - 1646.5	Above 38.6
8.382 - 8.388	1660 - 1710	
8.37625 - 8.38675	1718.8 - 1722.2	
8.41425 - 8.41475	2200 - 2300	
12.29 - 12.293	2310 - 2390	
12.51975 - 12.52025	2483.5 - 2500	
12.57675 - 12.57725	2655 - 2900	
13.36 - 13.41	3260 - 3267	
16.42 - 16.423	3332 - 3339	
16.69475 - 16.69525	3345.8 - 3358	
16.80425 - 16.80475	3500 - 4400	
25.5 - 25.67	4500 - 5150	
37.5 - 38.25	5350 - 5460	
73 - 74.6	7250 - 7750	
74.8 - 75.2	8025 - 8500	
108 – 138		

## FCC Restricted bands of operation refer to FCC §15.205 (a):

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
<sup>1</sup> 0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	( <sup>2</sup> )
13.36-13.41			

Note: <sup>1</sup>Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.

<sup>2</sup>Above 38.6c

Limits of unwanted/undesirable emission out of the restricted bands refer to CFR 47 FCC §15.407 (b) and ISED RSS-247 6.2.

## LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1GHz)



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Frequency Range	FIDD Limit	Field Strength Limit	
(MHz)	EIRP Limit	(dBuV/m) at 3 m	
5150~5250 MHz			
5250~5350 MHz	PK: -27 (dBm/MHz)	PK:68.2(dBµV/m)	
5470~5725 MHz			
	PK: -27 (dBm/MHz) *1	PK: 68.2(dBµV/m) *1	
5725~5850 MHz	PK: 10 (dBm/MHz) *2	PK: 105.2 (dBµV/m) *2	
	PK: 15.6 (dBm/MHz) *3	PK: 110.8(dBµV/m) *3	
	PK: 27 (dBm/MHz) *4	PK: 122.2 (dBµV/m) *4	

#### Note:

- \*1 beyond 75 MHz or more above of the band edge.
- \*2 below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above.
- \*3 below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above.
- \*4 from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

#### **TEST PROCEDURE**

Below 30 MHz

The setting of the spectrum analyser

RBW	200 Hz (From 9 kHz to 0.15 MHz)/ 9 kHz (From 0.15 MHz to 30 MHz)
VBW	200 Hz (From 9 kHz to 0.15 MHz)/ 9 kHz (From 0.15 MHz to 30 MHz)
Sweep	Auto

- 1. The testing follows the guidelines in ANSI C63.10-2013 clause 6.4.
- 2. The EUT was arranged to its worst case and then turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level. Both Horizontal, Face-on and Face-off polarizations of the antenna are set to make the measurement.
- 3. The EUT was placed on a turntable with 80 cm above ground.
- 4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a 1 m height antenna tower.
- 5. The radiated emission limits are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz Radiated emission limits in these three bands are based on measurements employing an average detector.
- 6. For measurement below 1 GHz, the initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak and average detector mode re-measured. If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak and average detector and reported.
- 7. Although these tests were performed other than open field site, adequate comparison measurements were confirmed against 30m open field site. Therefore sufficient tests were made to demonstrate that the alternative site produces results that correlate with the ones of tests made in an open field site based on KDB 414788.
- 8. The limits in CFR 47, Part 15, Subpart C, paragraph 15.209 (a), are identical to those in RSS-GEN Section 8.9, Table 6, since the measurements are performed in terms of magnetic field strength and



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converted to electric field strength levels (as reported in the table) using the free space impedance of  $377\Omega$ . For example, the measurement frequency X KHz resulted in a level of Y dBuV/m, which is equivalent to Y-51.5 = Z dBuA/m, which has the same margin, W dB, to the corresponding RSS-GEN Table 6 limit as it has to be 15.209(a) limit.



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Below 1 GHz and above 30 MHz

The setting of the spectrum analyser

RBW	120 kHz
VBW	300 kHz
Sweep	Auto
Detector	Peak/QP
Trace	Max hold

- 1. The testing follows the guidelines in ANSI C63.10-2013 clause 6.5.
- 2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- 3. The EUT was placed on a turntable with 80 cm above ground.
- 4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
- 5. For measurement below 1 GHz, the initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured. If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.



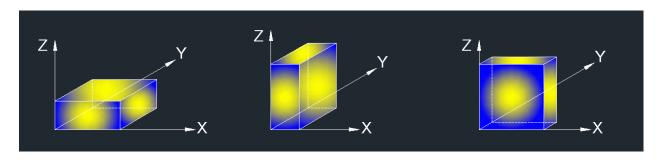
### Above 1 GHz

The setting of the spectrum analyser

RBW	1 MHz
VBW	PEAK: 3 MHz AVG: see note 6
Sweep	Auto
Detector	Peak
Trace	Max hold

- 1. The testing follows the guidelines in KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 section II.G.3 ~ II.G.6.
- 2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- 3. The EUT was placed on a turntable with 1.5 m above ground.
- 4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
- 5. For measurement above 1 GHz, the emission measurement will be measured by the peak detector. This peak level, once corrected, must comply with the limit specified in Section 15.209.
- 6. For measurements above 1 GHz the resolution bandwidth is set to 1 MHz, then the video bandwidth is set to 3 MHz for peak measurements and 1 MHz resolution bandwidth with 1/T video bandwidth with peak detector for average measurements. For the Duty Cycle please refer to clause 7.1.ON TIME AND DUTY CYCLE.

X axis, Y axis, Z axis positions:



Note 1: For all radiated test, EUT in each of three orthogonal axis emissions had been tested, but only the worst case (X axis) data recorded in the report.

Note 2: The EUT was fully exercised with external accessories during the test. In the case of multiple accessory external ports, an external accessory shall be connected to one of each type of port.

### For Band edge:

Note:

1. Measurement = Reading Level + Correct Factor.



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- 2. If the Peak values are less than the Average limit of 54 dBuV/m, the Average result is deemed to comply with Average limit.
- 3. Peak: Peak detector.
- 4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
- 5. For the transmitting duration, please refer to clause 7.1.
- 6. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.
- 7. Horizontal and Vertical have been tested, only the worst data was recorded in the report.
- 8. All modes, channels and antennas have been tested, only the worst data was recorded in the report.

# For Radiate Spurious emission 1GHz-7GHz:

#### Note:

- 1. Measurement = Reading Level + Correct Factor.
- 2. If the Peak values are less than the Average limit of 54 dBuV/m, the Average result is deemed to comply with Average limit.
- 3. Peak: Peak detector.
- 4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
- 5. For the transmitting duration, please refer to clause 7.1.
- 6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band reject filter losses.
- 7. Proper operation of the transmitter prior to adding the filter to the measurement chain.
- 8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.
- 9. All modes, channels and antennas have been tested, only the worst data was recorded in the report.

### For Radiate Spurious emission 7GHz-18GHz:

#### Note:

- 1. Measurement = Reading Level + Correct Factor.
- 2. If the Peak values are less than the Average limit of 54 dBuV/m, the Average result is deemed to comply with Average limit.
- 3. Peak: Peak detector.
- 4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
- 5. For the transmitting duration, please refer to clause 7.1.
- 6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
- 7. Proper operation of the transmitter prior to adding the filter to the measurement chain.
- 8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.
- 9. All modes, channels and antennas have been tested, only the worst data was recorded in the report.



For Radiate Spurious emission 9kHz-30MHz:

#### Note:

- 1. Measurement = Reading Level + Correct Factor (dBuA/m= dBuV/m- 20Log10[120π] = dBuV/m- 51.5).
- 2. If the Peak values are less than the QP limit, the QP result is deemed to comply with QP limit.
- 3. All 3 polarizations (Horizontal, Face-on and Face-off) of the loop antenna had been tested, but only the worst data recorded in the report.
- 4. All modes, channels and antennas have been tested, only the worst data was recorded in the report.

For Radiate Spurious emission 18GHz-26GHz:

#### Note:

- 1. Measurement = Reading Level + Correct Factor.
- 2. If the Peak values are less than the Average limit of 54 dBuV/m, the Average result is deemed to comply with Average limit.
- 3. Peak: Peak detector.
- 4. All modes, channels and antennas have been tested, only the worst data was recorded in the report.

For Radiate Spurious emission 26GHz-40GHz:

# Note:

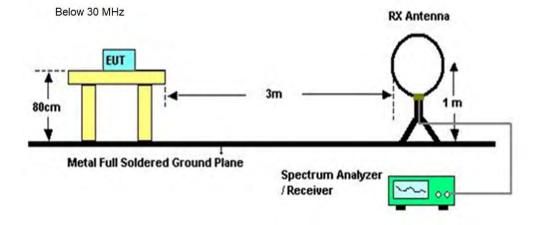
- 1. Measurement = Reading Level + Correct Factor.
- 2. If the Peak values are less than the Average limit of 54 dBuV/m, the Average result is deemed to comply with Average limit.
- 3. Peak: Peak detector.
- 4. All modes, channels and antennas have been tested, only the worst data was recorded in the report.

For Radiate Spurious emission 30MHz-1GHz:

#### Note:

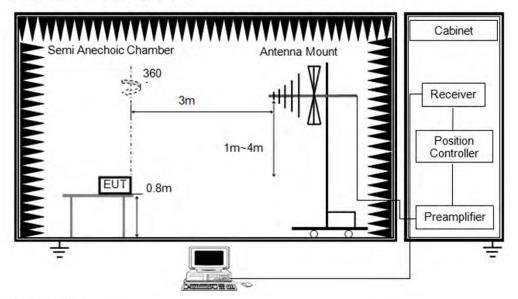
- 1. Result Level = Read Level + Correct Factor.
- 2. If the Peak values are less than the QP limit, the QP result is deemed to comply with QP limit.
- 3. Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto.
- 4. All modes, channels and antennas have been tested, only the worst data was recorded in the report.

#### **TEST SETUP**

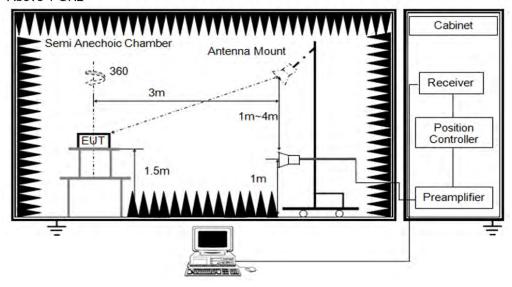




Below 1 GHz and above 30 MHz



Above 1 GHz



# **TEST ENVIRONMENT**

Temperature	25.3°C	Relative Humidity	63%
Atmosphere Pressure	101kPa	Test Voltage	AC120V_60Hz

# **TEST DATE / ENGINEER**

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Hest Date	IAUUUSI 4. ZUZS	Hest By	IRex Huang
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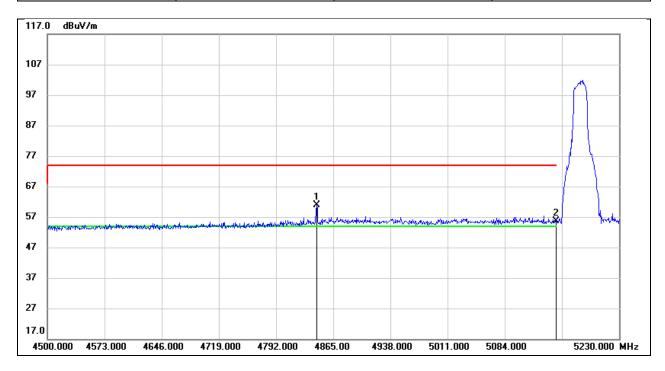
# **TEST RESULTS**





# 8.1. RESTRICTED BANDEDGE

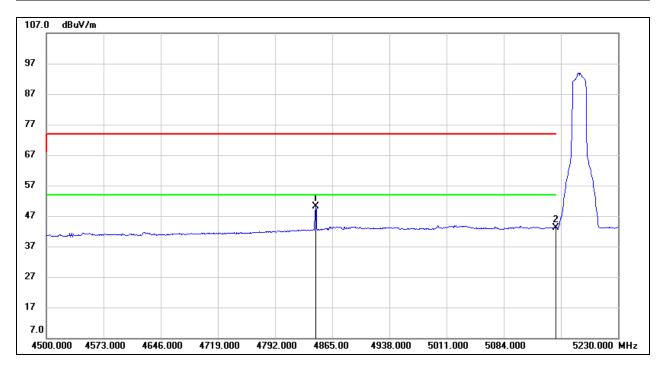
Test Mode:	802.11a 20 PK	Frequency(MHz):	5180
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4843.830	21.42	39.52	60.94	74.00	-13.06	peak
2	5150.000	15.26	40.27	55.53	74.00	-18.47	peak



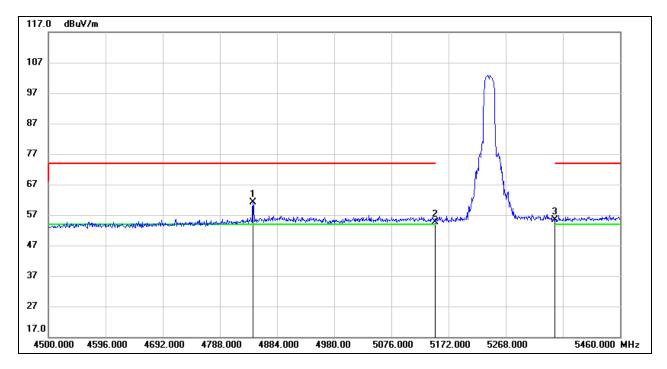
Test Mode:	802.11a 20 AV	Frequency(MHz):	5180
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4843.830	10.50	39.52	50.02	54.00	-3.98	AVG
2	5150.000	2.94	40.27	43.21	54.00	-10.79	AVG



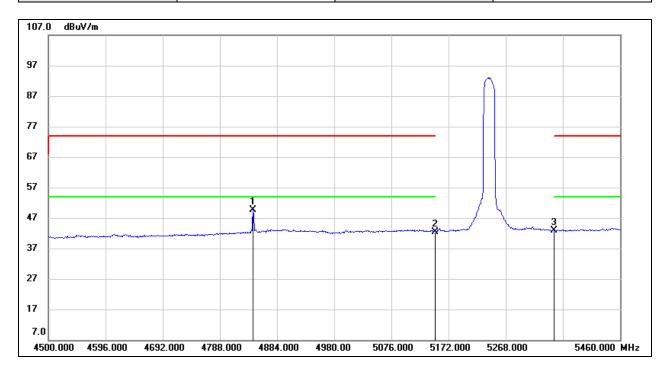
Test Mode:	802.11a 20 PK	Frequency(MHz):	5240
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4843.680	21.51	39.52	61.03	74.00	-12.97	peak
2	5150.000	14.39	40.27	54.66	74.00	-19.34	peak
3	5350.000	14.99	40.49	55.48	74.00	-18.52	peak



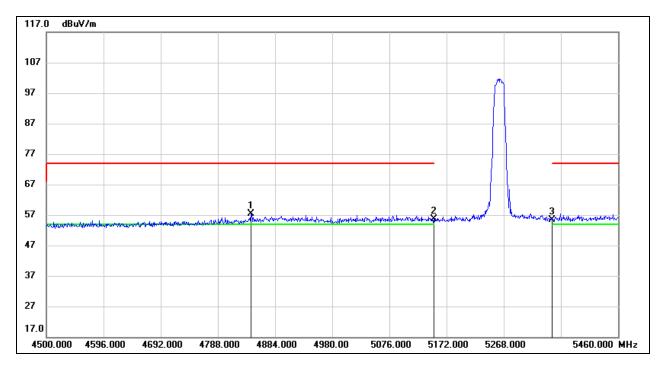
Test Mode:	802.11a 20 AV	Frequency(MHz):	5240
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4843.680	10.21	39.52	49.73	54.00	-4.27	AVG
2	5150.000	2.13	40.27	42.40	54.00	-11.60	AVG
3	5350.000	2.40	40.49	42.89	54.00	-11.11	AVG



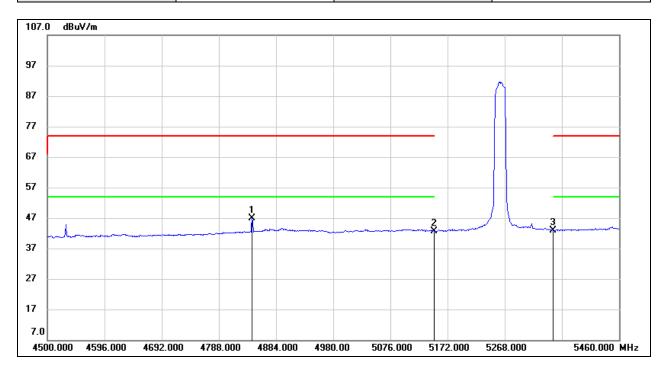
Test Mode:	802.11a 20 PK	Frequency(MHz):	5260
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4843.680	17.89	39.52	57.41	74.00	-16.59	peak
2	5150.000	15.42	40.27	55.69	74.00	-18.31	peak
3	5350.000	14.82	40.49	55.31	74.00	-18.69	peak



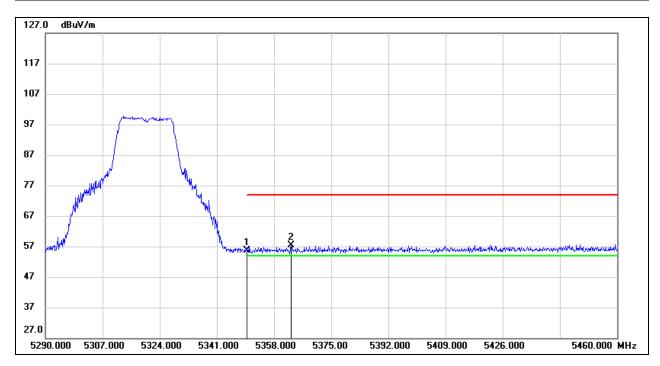
Test Mode:	802.11a 20 AV	Frequency(MHz):	5260
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4843.680	7.43	39.52	46.95	54.00	-7.05	AVG
2	5150.000	2.29	40.27	42.56	54.00	-11.44	AVG
3	5350.000	2.41	40.49	42.90	54.00	-11.10	AVG



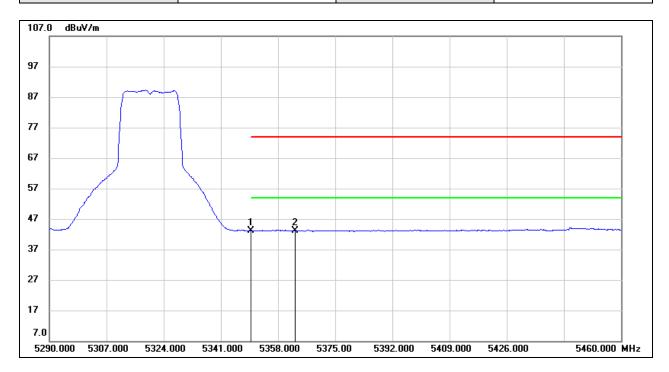
Test Mode:	802.11a 20 PK	Frequency(MHz):	5320
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5350.000	15.21	40.49	55.70	74.00	-18.30	peak
2	5363.100	16.88	40.51	57.39	74.00	-16.61	peak



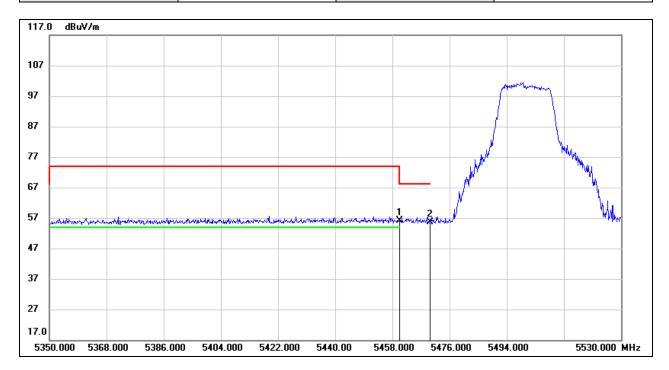
Test Mode:	802.11a 20 AV	Frequency(MHz):	5320
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5350.000	2.60	40.49	43.09	54.00	-10.91	AVG
2	5363.100	2.63	40.51	43.14	54.00	-10.86	AVG



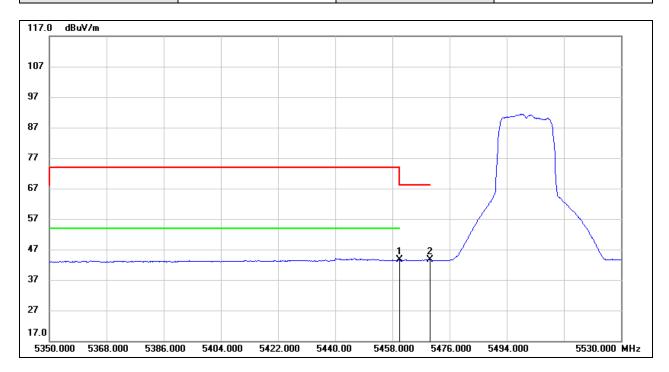
Test Mode:	802.11a 20 PK	Frequency(MHz):	5500
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5460.000	15.45	40.62	56.07	74.00	-17.93	peak
2	5470.000	15.03	40.63	55.66	68.20	-12.54	peak



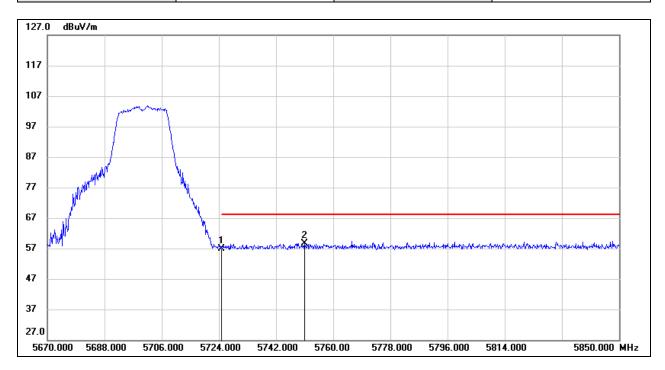
Test Mode:	802.11a 20 AV	Frequency(MHz):	5500
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5460.000	2.91	40.62	43.53	54.00	-10.47	AVG
2	5470.000	2.91	40.63	43.54	1	/	/



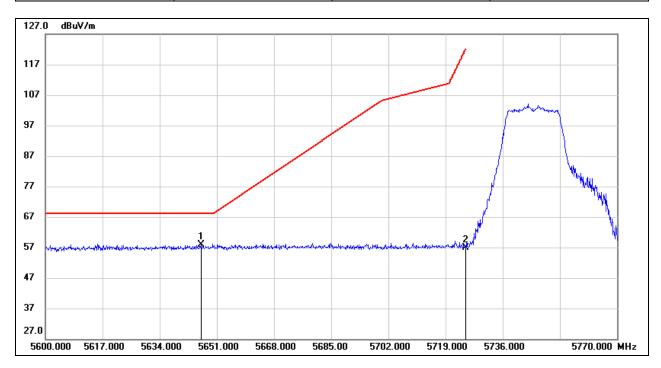
Test Mode:	802.11a 20 PK	Frequency(MHz):	5700
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5725.000	15.53	41.27	56.80	68.20	-11.40	peak
2	5751.000	17.40	41.33	58.73	68.20	-9.47	peak



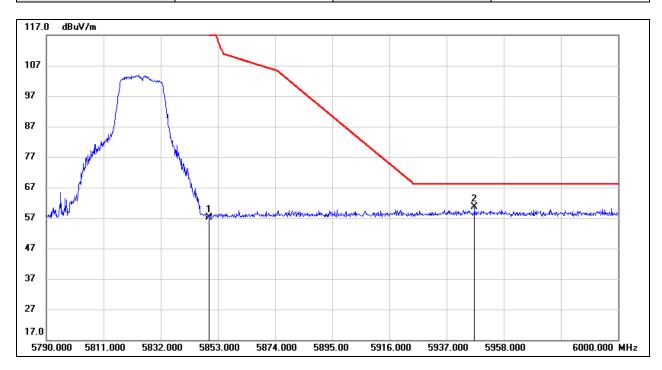
Test Mode:	802.11a 20 PK	Frequency(MHz):	5745
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5646.240	16.70	41.06	57.76	68.20	-10.44	peak
2	5725.000	15.52	41.27	56.79	122.20	-65.41	peak



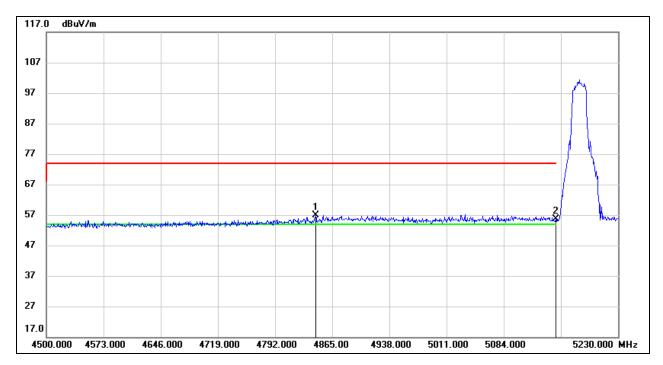
Test Mode:	802.11a 20 PK	Frequency(MHz):	5825
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5850.000	15.59	41.60	57.19	122.20	-65.01	peak
2	5947.290	18.65	41.86	60.51	68.20	-7.69	peak



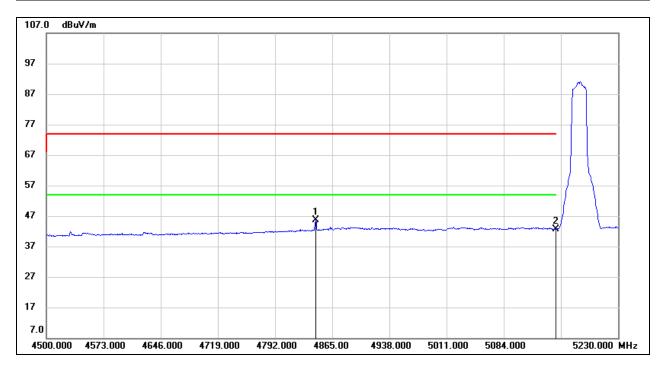
Test Mode:	802.11n HT20 PK	Frequency(MHz):	5180
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4843.830	17.27	39.52	56.79	74.00	-17.21	peak
2	5150.000	15.42	40.27	55.69	74.00	-18.31	peak



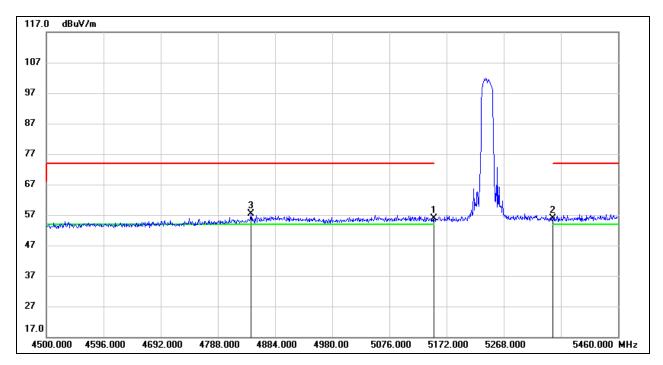
Test Mode:	802.11n HT20 AV	Frequency(MHz):	5180
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4843.830	6.01	39.52	45.53	54.00	-8.47	AVG
2	5150.000	2.35	40.27	42.62	54.00	-11.38	AVG



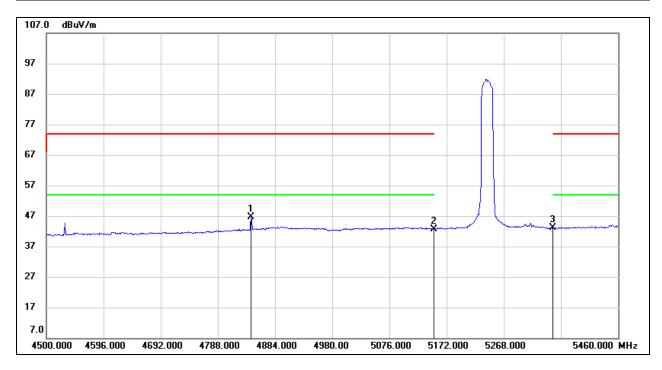
Test Mode:	802.11n HT20 PK	Frequency(MHz):	5240
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5150.000	15.52	40.27	55.79	74.00	-18.21	peak
2	5350.000	15.51	40.49	56.00	74.00	-18.00	peak
3	4843.680	17.78	39.52	57.30	74.00	-16.70	peak



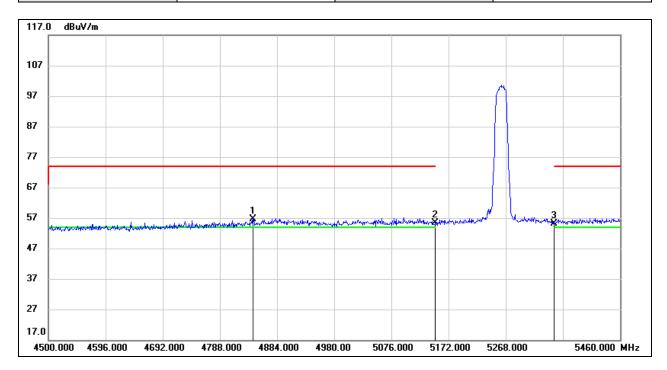
Test Mode:	802.11n HT20 AV	Frequency(MHz):	5240
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4843.680	7.20	39.52	46.72	54.00	-7.28	AVG
2	5150.000	2.45	40.27	42.72	54.00	-11.28	AVG
3	5350.000	2.64	40.49	43.13	54.00	-10.87	AVG



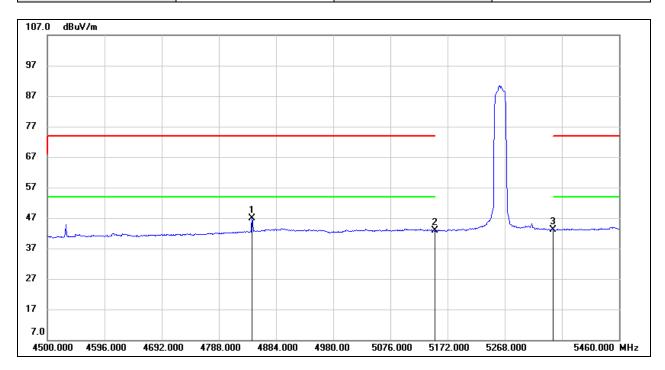
Test Mode:	802.11n HT20 PK	Frequency(MHz):	5260
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4843.680	17.10	39.52	56.62	74.00	-17.38	peak
2	5150.000	15.07	40.27	55.34	74.00	-18.66	peak
3	5350.000	14.56	40.49	55.05	74.00	-18.95	peak



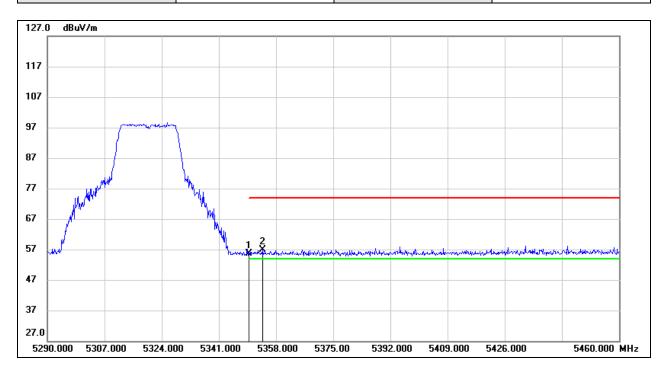
Test Mode:	802.11n HT20 AV	Frequency(MHz):	5260
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4843.680	7.41	39.52	46.93	54.00	-7.07	AVG
2	5150.000	2.56	40.27	42.83	54.00	-11.17	AVG
3	5350.000	2.54	40.49	43.03	54.00	-10.97	AVG



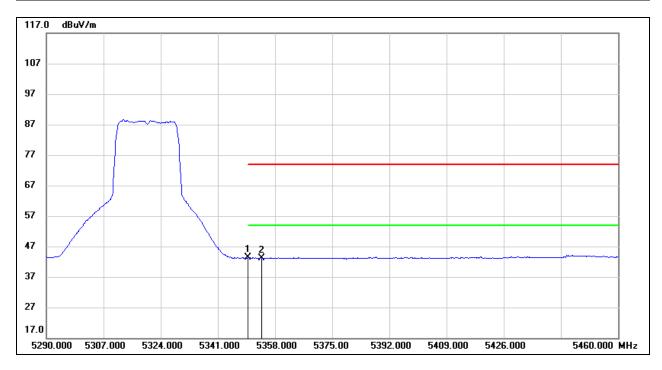
Test Mode:	802.11n HT20 PK	Frequency(MHz):	5320
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5350.000	15.14	40.49	55.63	74.00	-18.37	peak
2	5354.090	16.32	40.50	56.82	74.00	-17.18	peak



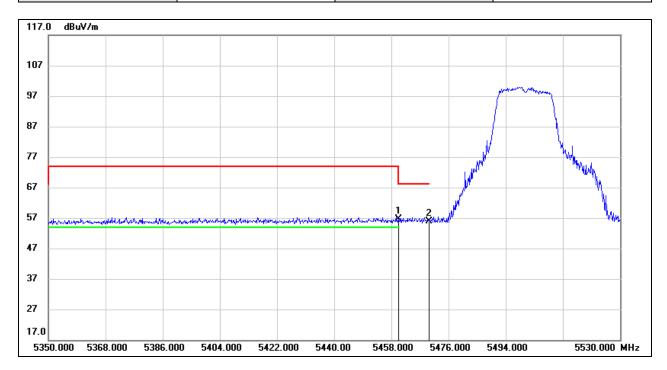
Test Mode:	802.11n HT20 AV	Frequency(MHz):	5320
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5350.000	2.79	40.49	43.28	54.00	-10.72	AVG
2	5354.090	2.66	40.50	43.16	54.00	-10.84	AVG



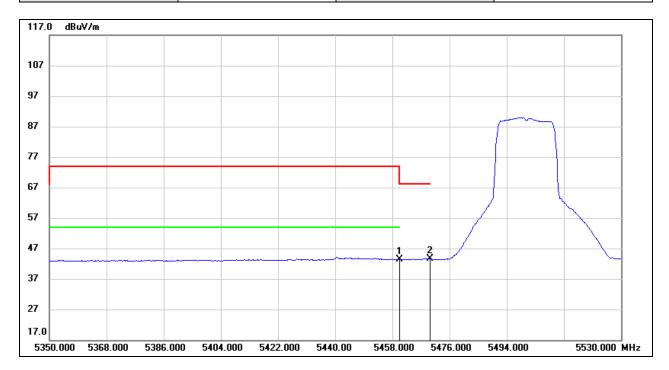
Test Mode:	802.11n HT20 PK	Frequency(MHz):	5500
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5460.000	15.91	40.62	56.53	74.00	-17.47	peak
2	5470.000	15.23	40.63	55.86	68.20	-12.34	peak



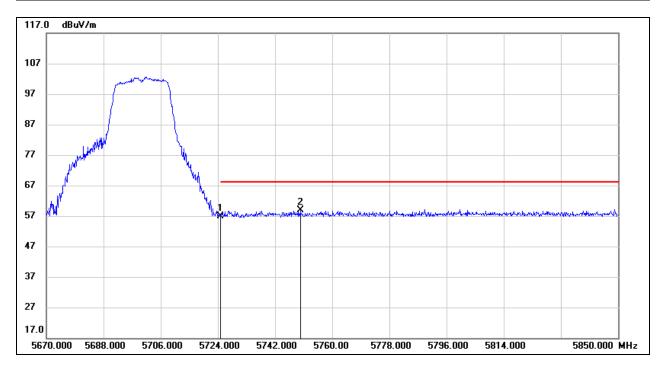
Test Mode:	802.11n HT20 AV	Frequency(MHz):	5500
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5460.000	2.81	40.62	43.43	54.00	-10.57	AVG
2	5470.000	2.96	40.63	43.59	/	/	



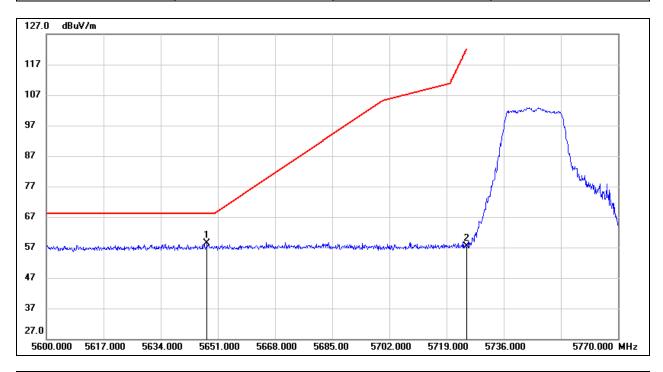
Test Mode:	802.11n HT20 PK	Frequency(MHz):	5700
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5725.000	15.53	41.27	56.80	68.20	-11.40	peak
2	5749.920	17.64	41.33	58.97	68.20	-9.23	peak



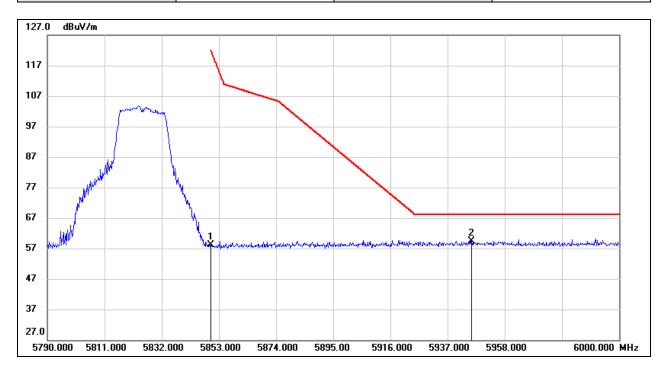
Test Mode:	802.11n HT20 PK	Frequency(MHz):	5745
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5647.770	17.40	41.06	58.46	68.20	-9.74	peak
2	5725.000	16.14	41.27	57.41	122.20	-64.79	peak



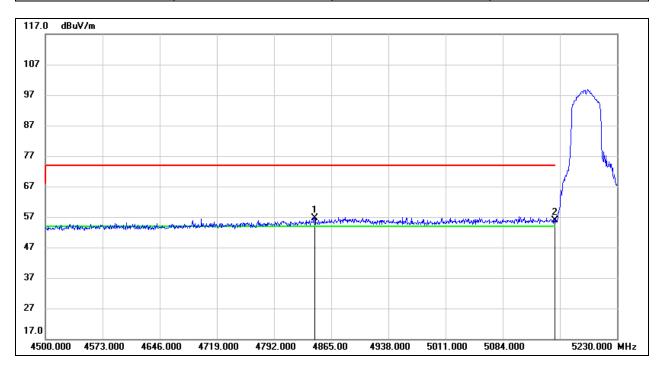
Test Mode:	802.11n HT20 PK	Frequency(MHz):	5825
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5850.000	16.49	41.60	58.09	122.20	-64.11	peak
2	5945.820	17.64	41.86	59.50	68.20	-8.70	peak



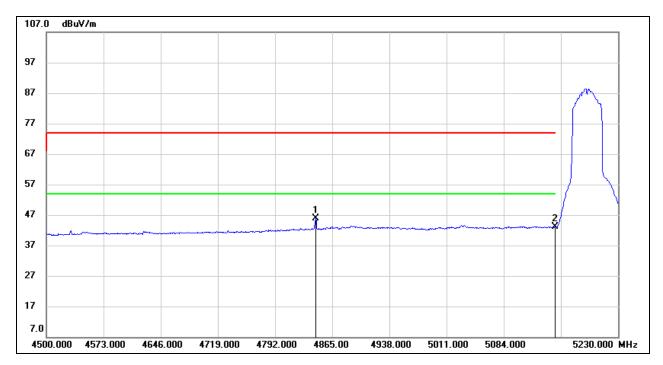
Test Mode:	802.11n HT40 PK	Frequency(MHz):	5190
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4843.830	17.17	39.52	56.69	74.00	-17.31	peak
2	5150.000	15.61	40.27	55.88	74.00	-18.12	peak



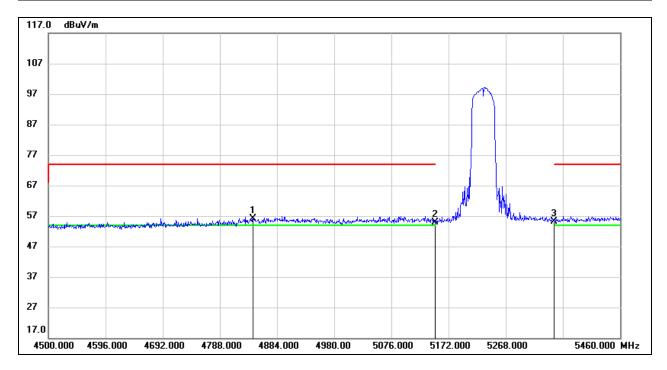
Test Mode:	802.11n HT40 AV	Frequency(MHz):	5190
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4843.830	6.48	39.52	46.00	54.00	-8.00	AVG
2	5150.000	2.74	40.27	43.01	54.00	-10.99	AVG



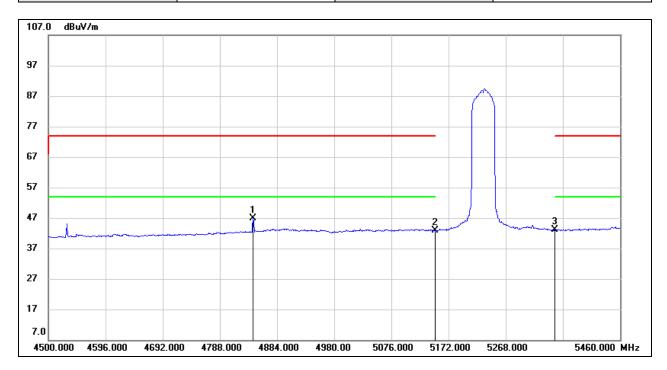
Test Mode:	802.11n HT40 PK	Frequency(MHz):	5230
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4843.680	16.71	39.52	56.23	74.00	-17.77	peak
2	5150.000	14.65	40.27	54.92	74.00	-19.08	peak
3	5350.000	14.66	40.49	55.15	74.00	-18.85	peak



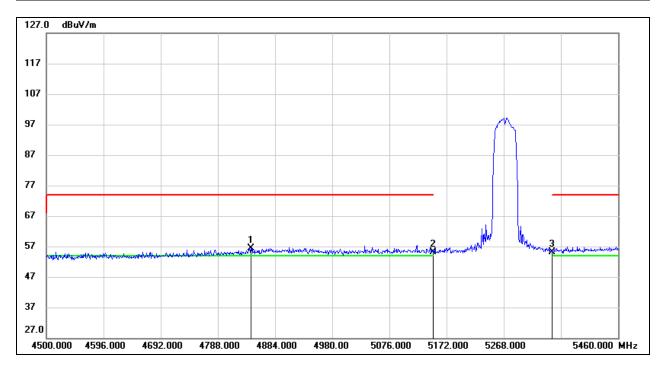
Test Mode:	802.11n HT40 AV	Frequency(MHz):	5230
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4843.680	7.41	39.52	46.93	54.00	-7.07	AVG
2	5150.000	2.57	40.27	42.84	54.00	-11.16	AVG
3	5350.000	2.53	40.49	43.02	54.00	-10.98	AVG



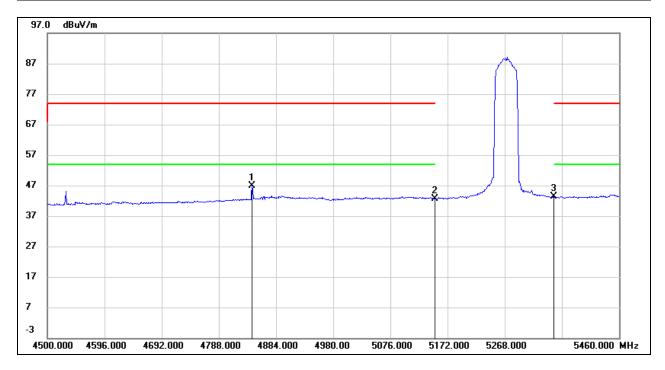
Test Mode:	802.11n HT40 PK	Frequency(MHz):	5270
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4843.680	16.88	39.52	56.40	74.00	-17.60	peak
2	5150.000	14.88	40.27	55.15	74.00	-18.85	peak
3	5350.000	14.67	40.49	55.16	74.00	-18.84	peak



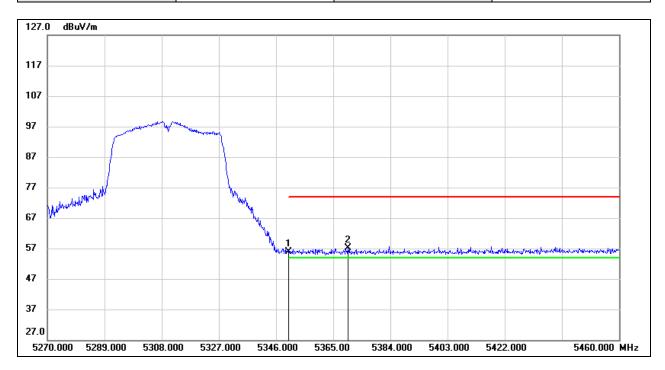
Test Mode:	802.11n HT40 AV	Frequency(MHz):	5270
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4843.680	7.41	39.52	46.93	54.00	-7.07	AVG
2	5150.000	2.46	40.27	42.73	54.00	-11.27	AVG
3	5350.000	3.01	40.49	43.50	54.00	-10.50	AVG



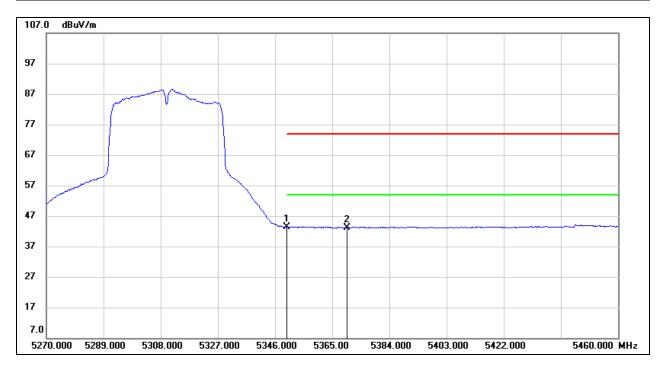
Test Mode:	802.11n HT40 PK	Frequency(MHz):	5310
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5350.000	15.42	40.49	55.91	74.00	-18.09	peak
2	5369.940	16.64	40.52	57.16	74.00	-16.84	peak



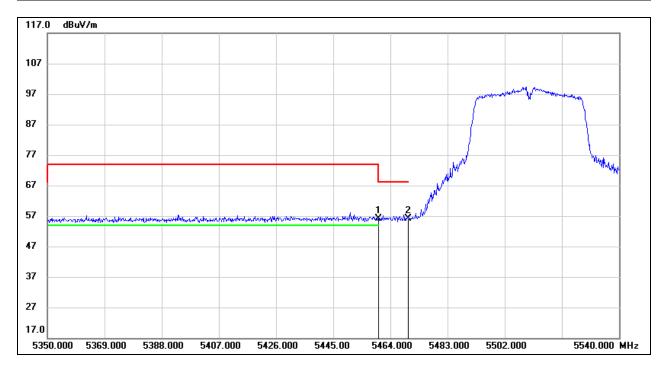
Test Mode:	802.11n HT40 AV	Frequency(MHz):	5310
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5350.000	2.83	40.49	43.32	54.00	-10.68	AVG
2	5369.940	2.72	40.52	43.24	54.00	-10.76	AVG



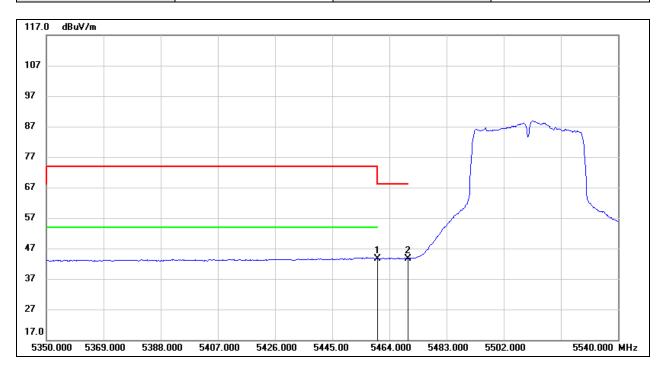
Test Mode:	802.11n HT40 PK	Frequency(MHz):	5510
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5460.000	15.49	40.62	56.11	74.00	-17.89	peak
2	5470.000	15.54	40.63	56.17	1	/	1



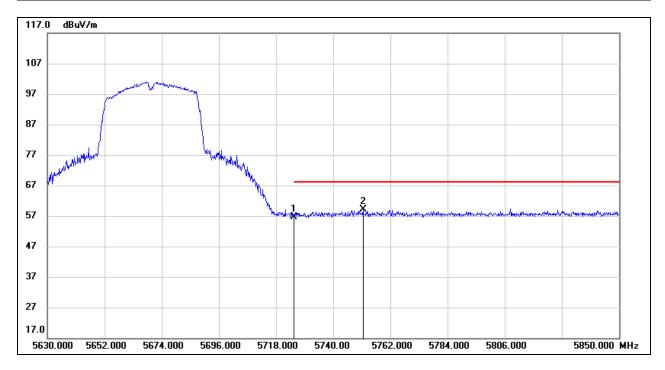
Test Mode:	802.11n HT40 AV	Frequency(MHz):	5510
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5460.000	3.11	40.62	43.73	54.00	-10.27	AVG
2	5470.000	3.01	40.63	43.64	/	/	/



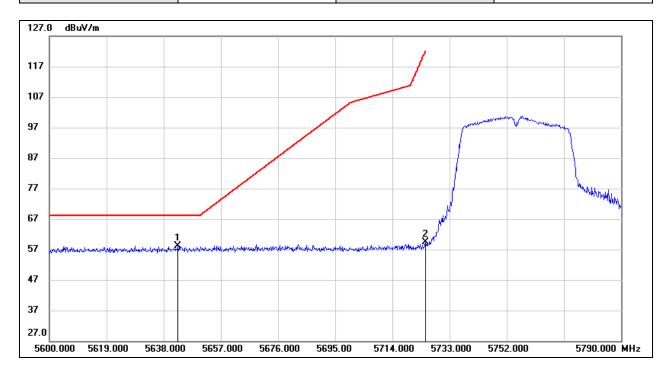
Test Mode:	802.11n HT40 PK	Frequency(MHz):	5670
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5725.000	15.35	41.27	56.62	68.20	-11.58	peak
2	5751.440	17.69	41.33	59.02	68.20	-9.18	peak



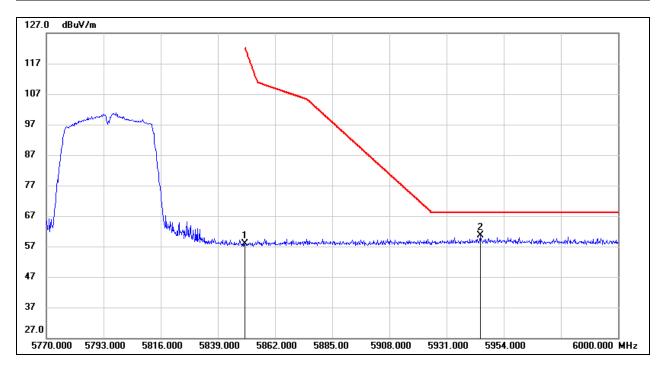
Test Mode:	802.11n HT40 PK	Frequency(MHz):	5755
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5642.750	17.00	41.04	58.04	68.20	-10.16	peak
2	5725.000	18.06	41.27	59.33	122.20	-62.87	peak



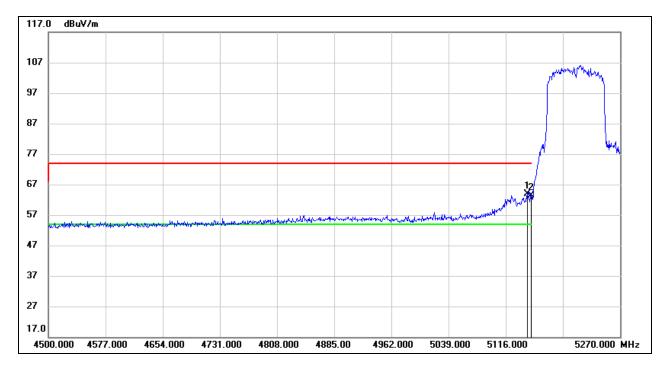
Test Mode:	802.11n HT40 PK	Frequency(MHz):	5795
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5850.000	16.16	41.60	57.76	122.20	-64.44	peak
2	5944.570	18.77	41.85	60.62	68.20	-7.58	peak



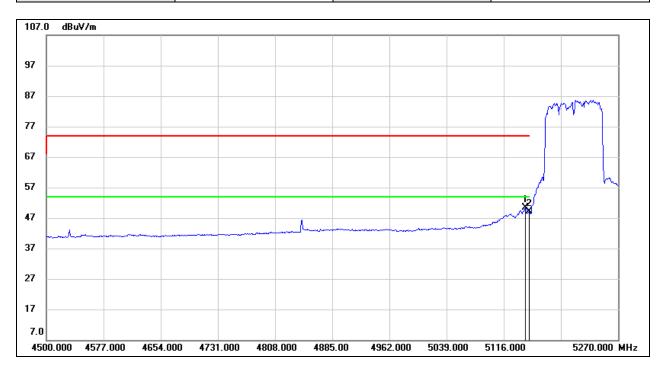
Test Mode:	802.11ac VHT80 PK	Frequency(MHz):	5210
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5145.260	23.49	40.27	63.76	74.00	-10.24	peak
2	5150.000	23.09	40.27	63.36	74.00	-10.64	peak



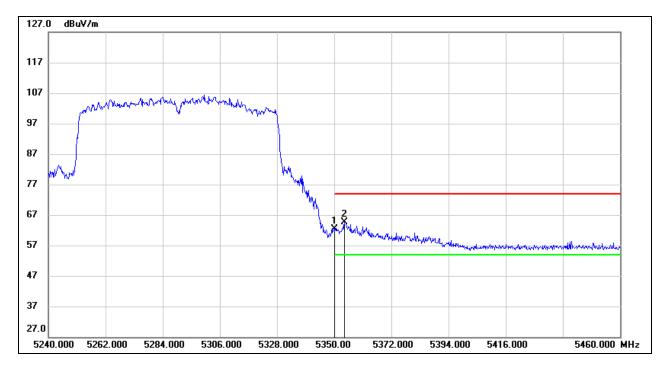
Test Mode:	802.11ac VHT80 AV	Frequency(MHz):	5210
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5145.260	10.13	40.27	50.40	54.00	-3.60	AVG
2	5150.000	8.94	40.27	49.21	54.00	-4.79	AVG



Test Mode:	802.11ac VHT80 PK	Frequency(MHz):	5290
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5350.000	21.85	40.49	62.34	74.00	-11.66	peak
2	5353.960	24.08	40.50	64.58	74.00	-9.42	peak



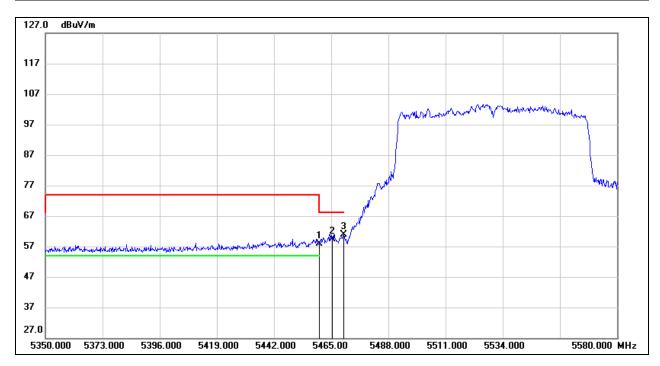
Test Mode:	802.11ac VHT80 AV	Frequency(MHz):	5290
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5350.000	8.69	40.49	49.18	54.00	-4.82	AVG
2	5353.960	9.83	40.50	50.33	54.00	-3.67	AVG



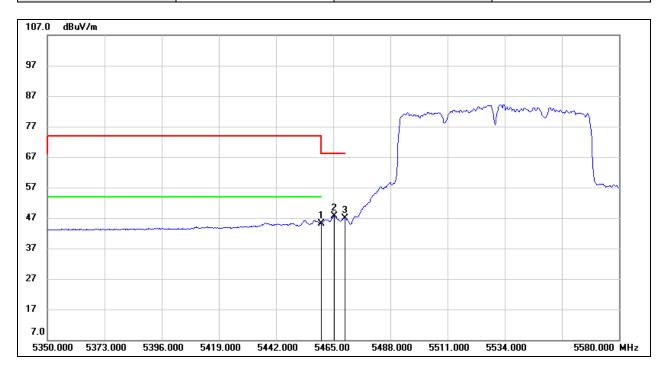
Test Mode:	802.11ac VHT80 PK	Frequency(MHz):	5530
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5460.000	17.16	40.62	57.78	74.00	-16.22	peak
2	5465.460	18.87	40.62	59.49	68.20	-8.71	peak
3	5470.000	20.13	40.63	60.76	68.20	-7.44	peak



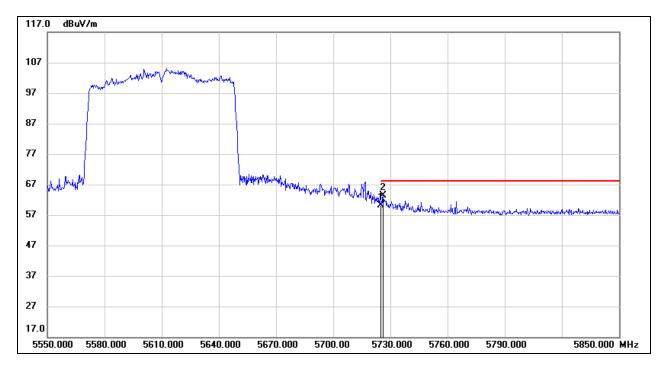
Test Mode:	802.11ac VHT80 AV	Frequency(MHz):	5530
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5460.000	4.56	40.62	45.18	54.00	-8.82	AVG
2	5465.460	6.92	40.62	47.54	/	/	1
3	5470.000	6.33	40.63	46.96	/	/	1



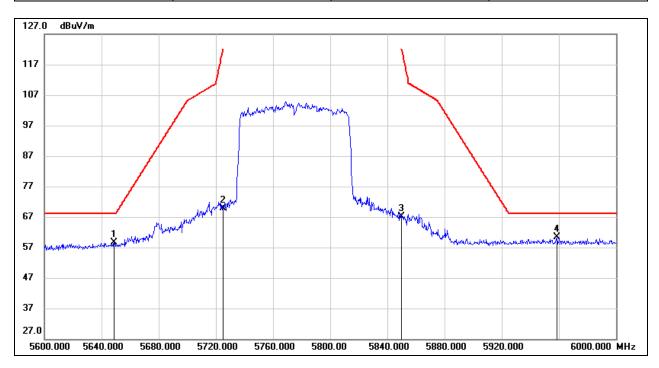
Test Mode:	802.11ac VHT80 PK	Frequency(MHz):	5610
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5725.000	18.85	41.27	60.12	68.20	-8.08	peak
2	5726.100	22.07	41.27	63.34	68.20	-4.86	peak



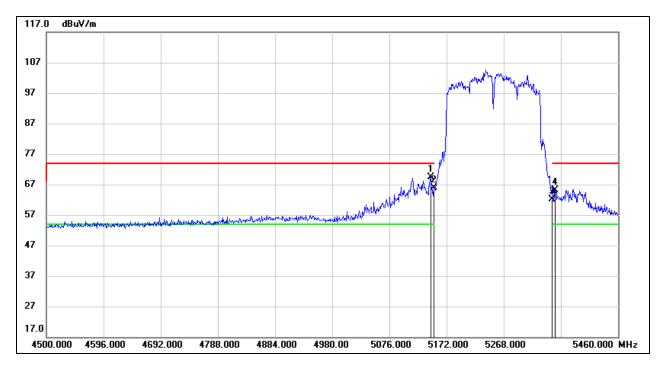
Test Mode:	802.11ac VHT80 PK	Frequency(MHz):	5775
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5648.800	17.55	41.06	58.61	68.20	-9.59	peak
2	5725.000	28.68	41.27	69.95	122.20	-52.25	peak
3	5850.000	25.62	41.60	67.22	122.20	-54.98	peak
4	5958.800	18.44	41.89	60.33	68.20	-7.87	peak



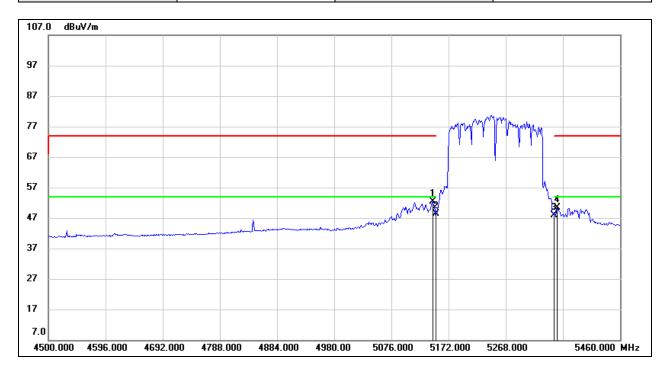
Test Mode:	802.11ac VHT160 PK	Frequency(MHz):	5250
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5145.120	29.17	40.27	69.44	74.00	-4.56	peak
2	5150.000	25.62	40.27	65.89	74.00	-8.11	peak
3	5350.000	21.61	40.49	62.10	74.00	-11.90	peak
4	5354.400	24.61	40.50	65.11	74.00	-8.89	peak



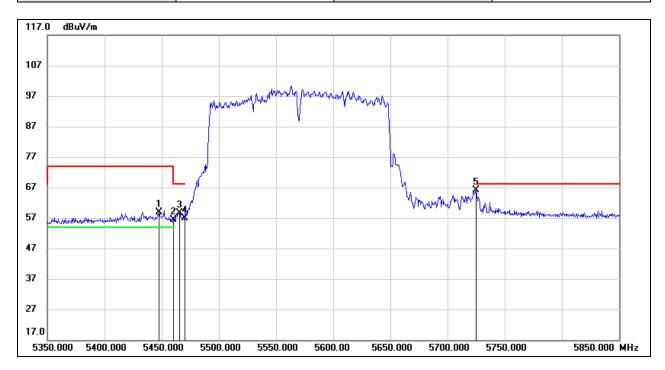
Test Mode:	802.11ac VHT160 AV	Frequency(MHz):	5250
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5145.120	12.16	40.27	52.43	54.00	-1.57	AVG
2	5150.000	8.12	40.27	48.39	54.00	-5.61	AVG
3	5350.000	7.42	40.49	47.91	54.00	-6.09	AVG
4	5354.400	9.79	40.50	50.29	54.00	-3.71	AVG



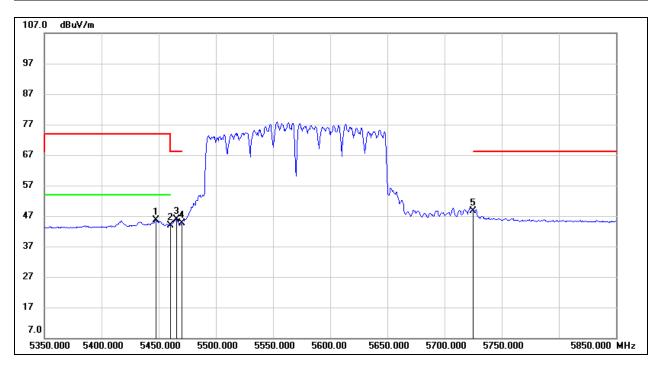
Test Mode:	802.11ac VHT160 PK	Frequency(MHz):	5570
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5447.500	18.39	40.61	59.00	74.00	-15.00	peak
2	5460.000	15.68	40.62	56.30	74.00	-17.70	peak
3	5465.500	18.10	40.62	58.72	68.20	-9.48	peak
4	5470.000	16.32	40.63	56.95	68.20	-11.25	peak
5	5725.000	24.89	41.27	66.16	68.20	-2.04	peak



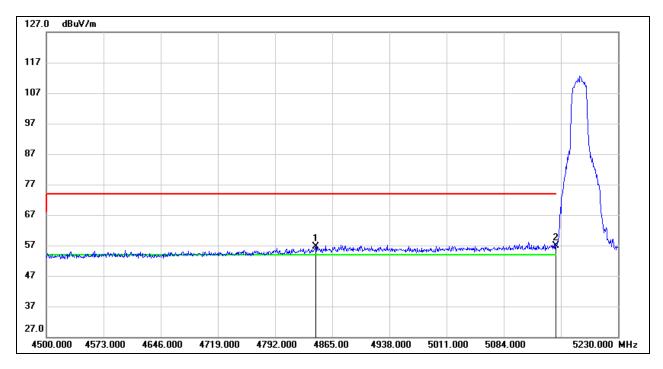
Test Mode:	802.11ac VHT160 AV	Frequency(MHz):	5570
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5447.500	5.11	40.61	45.72	54.00	-8.28	AVG
2	5460.000	3.27	40.62	43.89	/	/	1
3	5465.500	5.31	40.62	45.93	/	/	1
4	5470.000	4.01	40.63	44.64	/	/	1
5	5725.000	7.47	41.27	48.74	68.20	-19.46	AVG



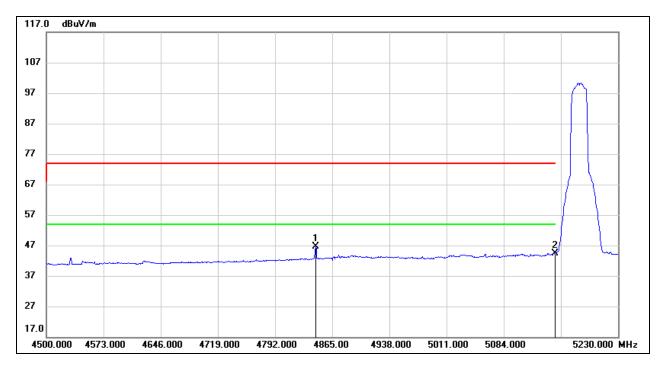
Test Mode:	802.11ax HE20 PK	Frequency(MHz):	5180
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4843.830	17.08	39.52	56.60	74.00	-17.40	peak
2	5150.000	16.73	40.27	57.00	74.00	-17.00	peak



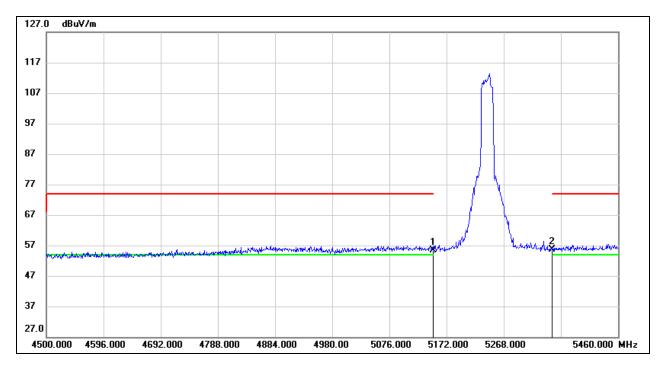
Test Mode:	802.11ax HE20 AV	Frequency(MHz):	5180
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4843.830	7.13	39.52	46.65	54.00	-7.35	AVG
2	5150.000	4.08	40.27	44.35	54.00	-9.65	AVG



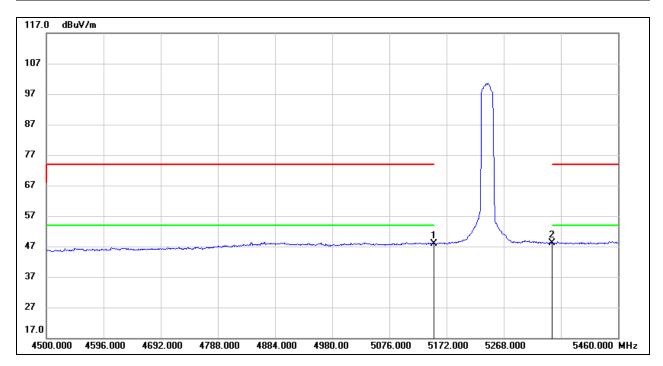
Test Mode:	802.11ax HE20 PK	Frequency(MHz):	5240
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5150.000	15.12	40.27	55.39	74.00	-18.61	peak
2	5350.000	15.14	40.49	55.63	74.00	-18.37	peak



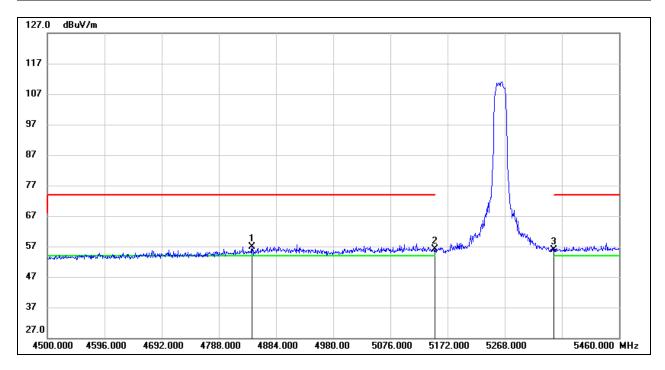
Test Mode:	802.11ax HE20 AV	Frequency(MHz):	5240
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5150.000	7.63	40.27	47.90	54.00	-6.10	AVG
2	5350.000	7.61	40.49	48.10	54.00	-5.90	AVG



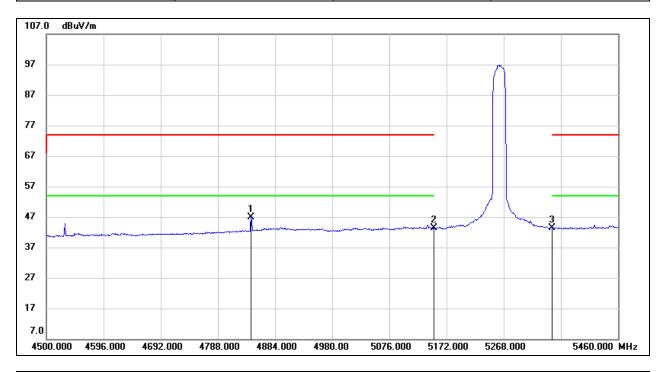
Test Mode:	802.11ax HE20 PK	Frequency(MHz):	5260
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4843.680	17.44	39.52	56.96	74.00	-17.04	peak
2	5150.000	15.76	40.27	56.03	74.00	-17.97	peak
3	5350.000	15.41	40.49	55.90	74.00	-18.10	peak



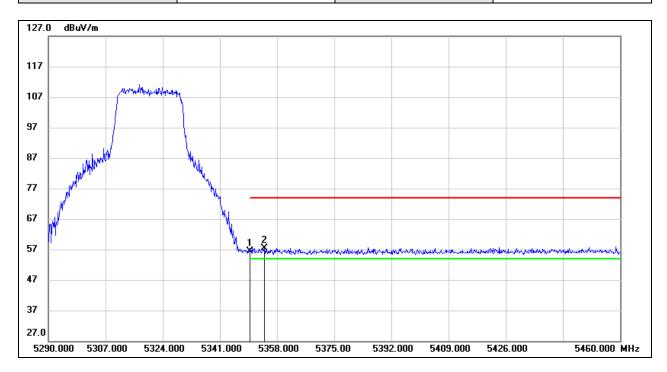
Test Mode:	802.11ax HE20 AV	Frequency(MHz):	5260
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4843.680	7.48	39.52	47.00	54.00	-7.00	AVG
2	5150.000	3.04	40.27	43.31	54.00	-10.69	AVG
3	5350.000	2.96	40.49	43.45	54.00	-10.55	AVG



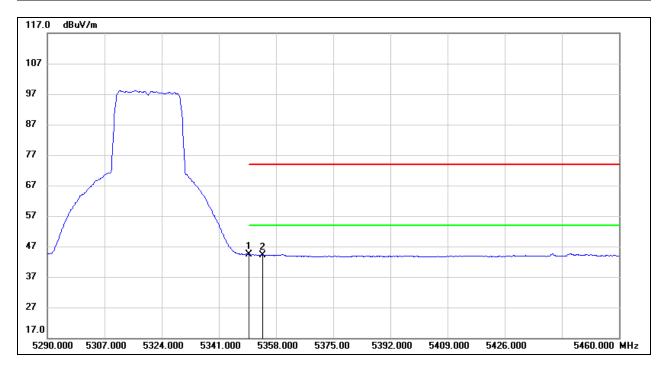
Test Mode:	802.11ax HE20 PK	Frequency(MHz):	5320
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5350.000	15.96	40.49	56.45	74.00	-17.55	peak
2	5354.260	16.80	40.50	57.30	74.00	-16.70	peak



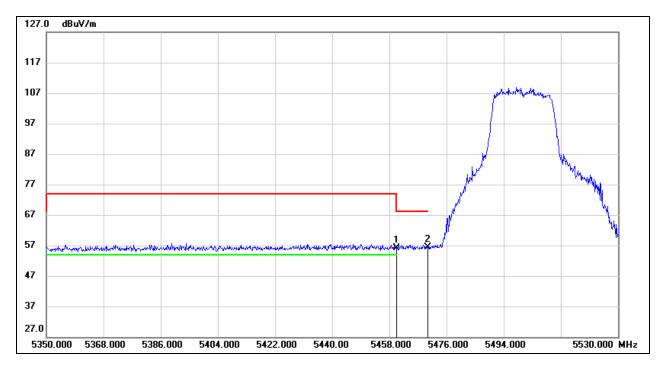
Test Mode:	802.11ax HE20 AV	Frequency(MHz):	5320
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5350.000	3.87	40.49	44.36	54.00	-9.64	AVG
2	5354.260	3.52	40.50	44.02	54.00	-9.98	AVG



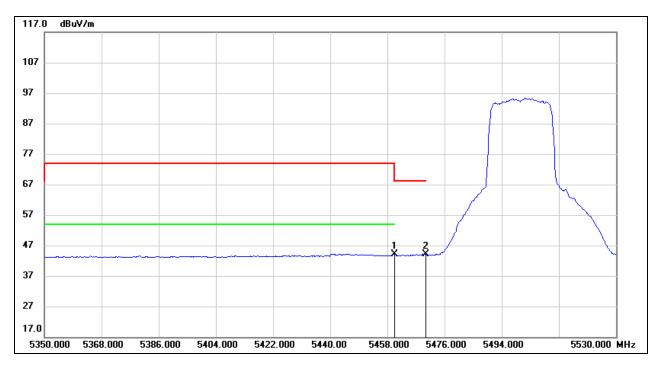
Test Mode:	802.11ax HE20 PK	Frequency(MHz):	5500
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5460.000	15.54	40.62	56.16	74.00	-17.84	peak
2	5470.000	15.85	40.63	56.48	68.20	-11.72	peak



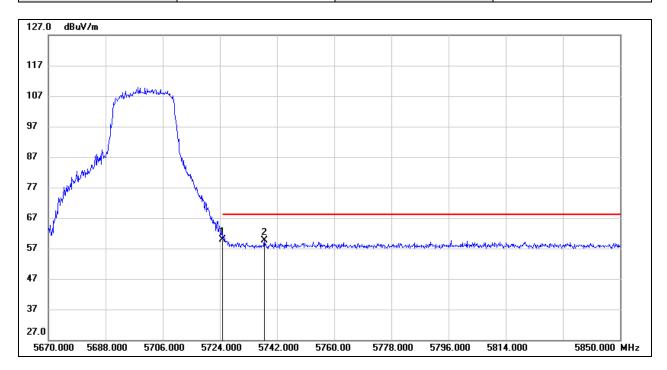
Test Mode:	802.11ax HE20 AV	Frequency(MHz):	5500
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5460.000	3.59	40.62	44.21	54.00	-9.79	AVG
2	5470.000	3.48	40.63	44.11	1	/	1



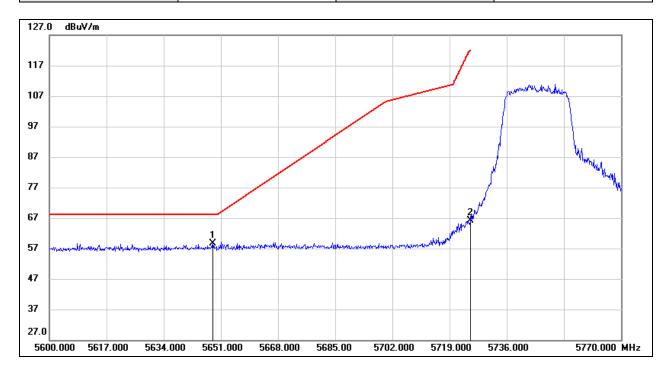
Test Mode:	802.11ax HE20 PK	Frequency(MHz):	5700
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5725.000	18.63	41.27	59.90	68.20	-8.30	peak
2	5738.040	18.38	41.30	59.68	68.20	-8.52	peak



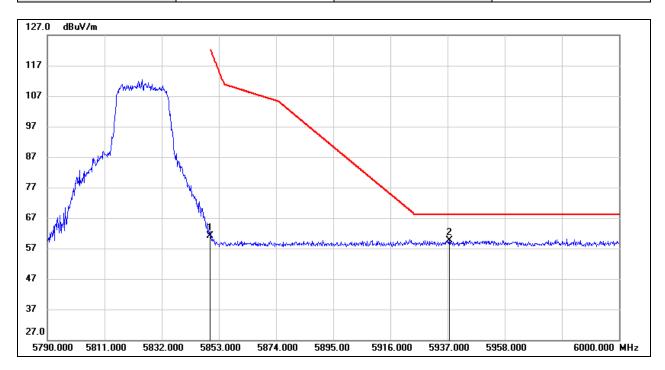
Test Mode:	802.11ax HE20 PK	Frequency(MHz):	5745
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5648.620	17.54	41.06	58.60	68.20	-9.60	peak
2	5725.000	24.74	41.27	66.01	122.20	-56.19	peak



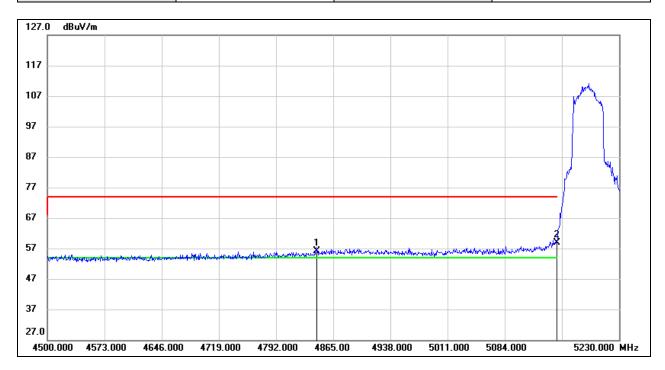
Test Mode:	802.11ax HE20 PK	Frequency(MHz):	5825
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



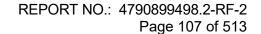
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5850.000	19.51	41.60	61.11	122.20	-61.09	peak
2	5937.630	17.79	41.84	59.63	68.20	-8.57	peak



Test Mode:	802.11ax HE40 PK	Frequency(MHz):	5190
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz

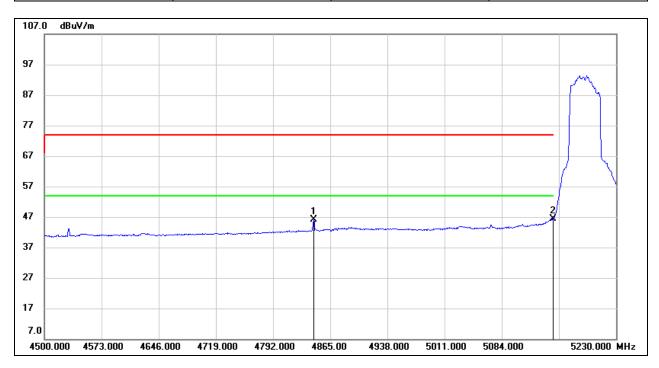


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4843.830	16.72	39.52	56.24	74.00	-17.76	peak
2	5150.000	18.60	40.27	58.87	74.00	-15.13	peak





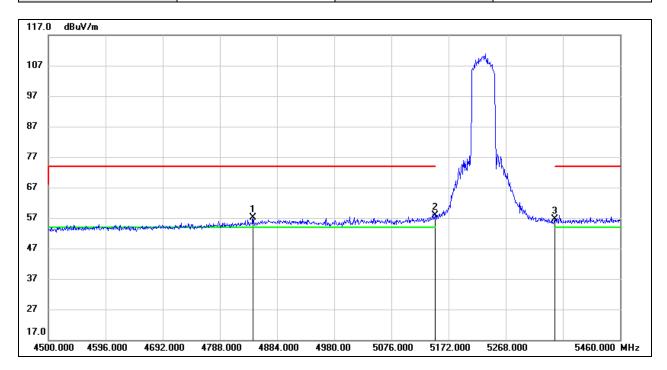
Test Mode:	802.11ax HE40 AV	Frequency(MHz):	5190
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4843.830	6.69	39.52	46.21	54.00	-7.79	AVG
2	5150.000	6.07	40.27	46.34	54.00	-7.66	AVG



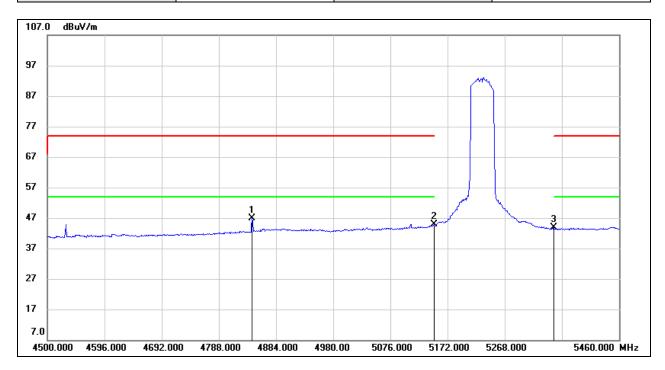
Test Mode:	802.11ax HE40 PK	Frequency(MHz):	5230
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4843.680	17.58	39.52	57.10	74.00	-16.90	peak
2	5150.000	17.69	40.27	57.96	74.00	-16.04	peak
3	5350.000	16.10	40.49	56.59	74.00	-17.41	peak



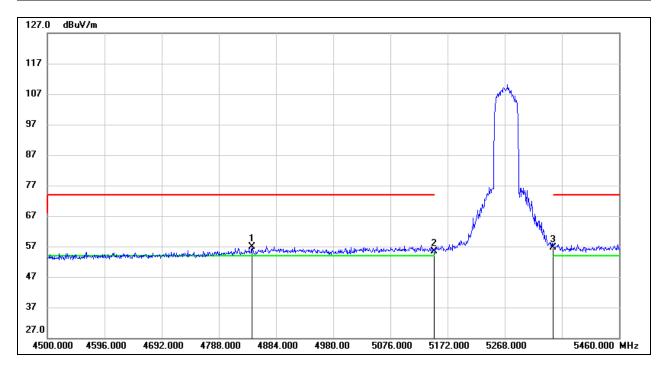
Test Mode:	802.11ax HE40 AV	Frequency(MHz):	5230
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4843.680	7.24	39.52	46.76	54.00	-7.24	AVG
2	5150.000	4.51	40.27	44.78	54.00	-9.22	AVG
3	5350.000	3.36	40.49	43.85	54.00	-10.15	AVG



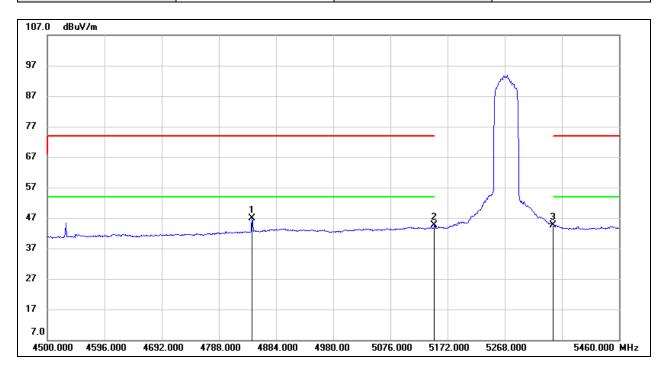
Test Mode:	802.11ax HE40 PK	Frequency(MHz):	5270
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4843.680	17.25	39.52	56.77	74.00	-17.23	peak
2	5150.000	15.22	40.27	55.49	74.00	-18.51	peak
3	5350.000	16.04	40.49	56.53	74.00	-17.47	peak



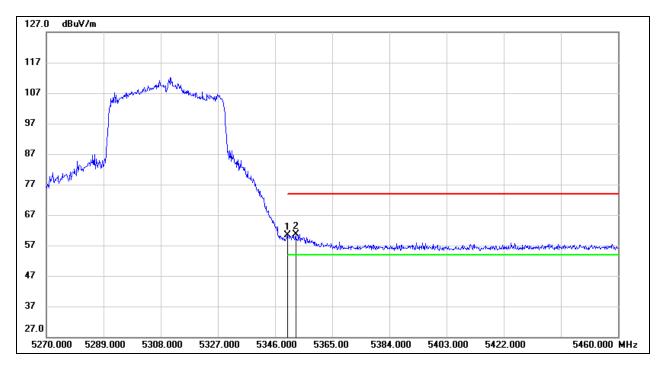
Test Mode:	802.11ax HE40 AV	Frequency(MHz):	5270
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4843.680	7.39	39.52	46.91	54.00	-7.09	AVG
2	5150.000	4.26	40.27	44.53	54.00	-9.47	AVG
3	5350.000	4.19	40.49	44.68	54.00	-9.32	AVG



Test Mode:	802.11ax HE40 PK	Frequency(MHz):	5310
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5350.000	19.92	40.49	60.41	74.00	-13.59	peak
2	5352.840	20.23	40.50	60.73	74.00	-13.27	peak



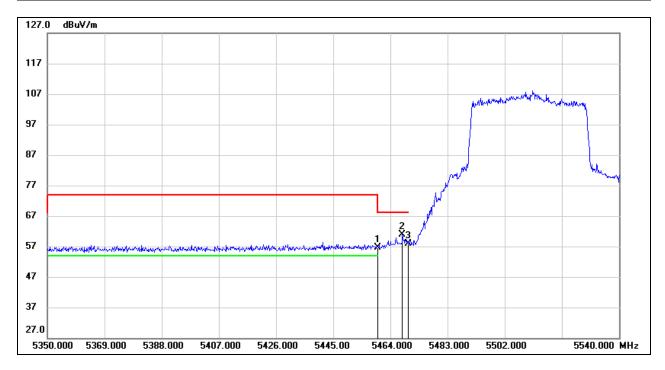
Test Mode:	802.11ax HE40 AV	Frequency(MHz):	5310
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5350.000	6.53	40.49	47.02	54.00	-6.98	AVG
2	5352.840	5.91	40.50	46.41	54.00	-7.59	AVG



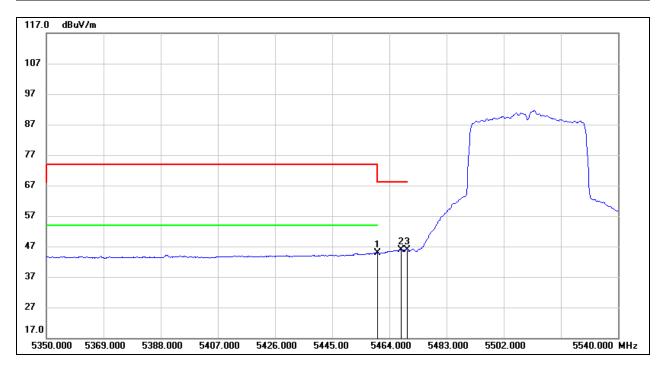
Test Mode:	802.11ax HE40 PK	Frequency(MHz):	5510
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5460.000	16.13	40.62	56.75	74.00	-17.25	peak
2	5467.990	20.26	40.63	60.89	68.20	-7.31	peak
3	5470.000	17.23	40.63	57.86	68.20	-10.34	peak



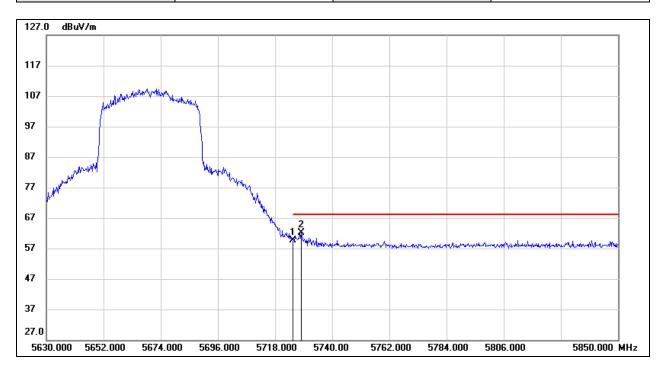
Test Mode:	802.11ax HE40 AV	Frequency(MHz):	5510
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5460.000	4.23	40.62	44.85	54.00	-9.15	AVG
2	5467.990	5.19	40.63	45.82	/	/	1
3	5470.000	5.37	40.63	46.00	/	/	1



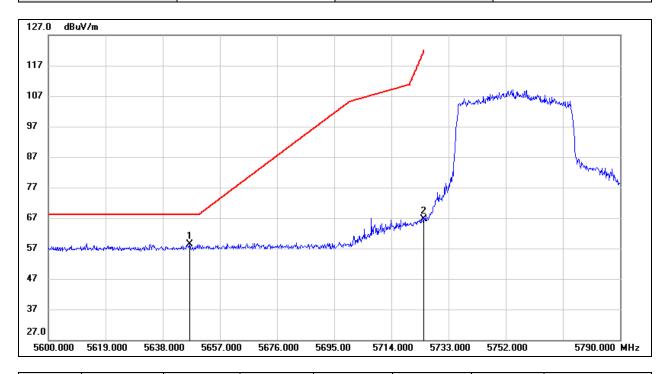
Test Mode:	802.11ax HE40 PK	Frequency(MHz):	5670
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5725.000	18.32	41.27	59.59	68.20	-8.61	peak
2	5728.120	20.81	41.27	62.08	68.20	-6.12	peak



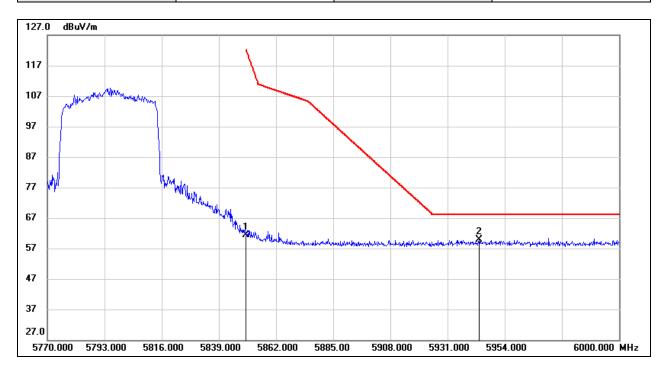
Test Mode:	802.11ax HE40 PK	Frequency(MHz):	5755
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5646.930	17.29	41.06	58.35	68.20	-9.85	peak
2	5725.000	25.40	41.27	66.67	122.20	-55.53	peak



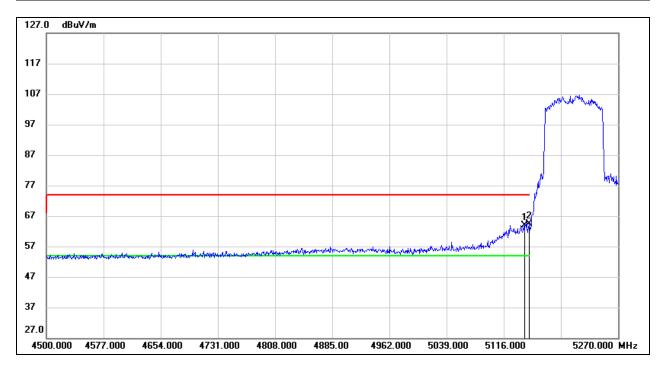
Test Mode:	802.11ax HE40 PK	Frequency(MHz):	5795
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5850.000	19.69	41.60	61.29	122.20	-60.91	peak
2	5943.650	18.01	41.85	59.86	68.20	-8.34	peak



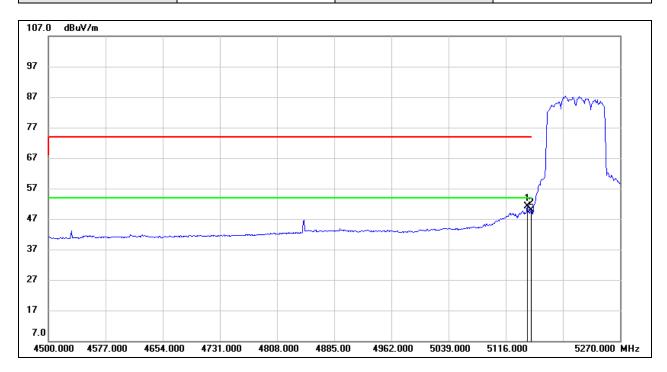
Test Mode:	802.11ax HE80 PK	Frequency(MHz):	5210
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5145.260	23.51	40.27	63.78	74.00	-10.22	peak
2	5150.000	24.01	40.27	64.28	74.00	-9.72	peak



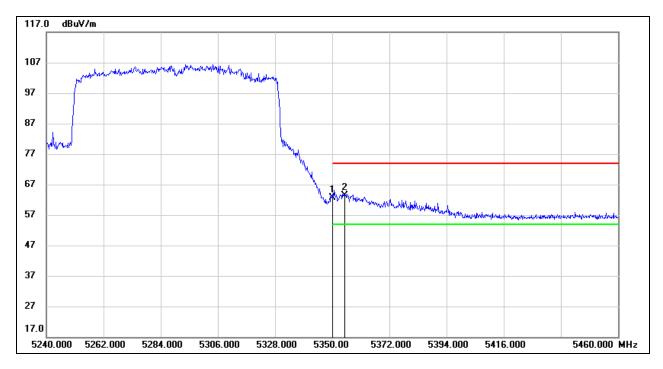
Test Mode:	802.11ax HE80 AV	Frequency(MHz):	5210
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5145.260	10.82	40.27	51.09	54.00	-2.91	AVG
2	5150.000	9.54	40.27	49.81	54.00	-4.19	AVG



Test Mode:	802.11ax HE80 PK	Frequency(MHz):	5290
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5350.000	22.25	40.49	62.74	74.00	-11.26	peak
2	5354.840	22.95	40.50	63.45	74.00	-10.55	peak



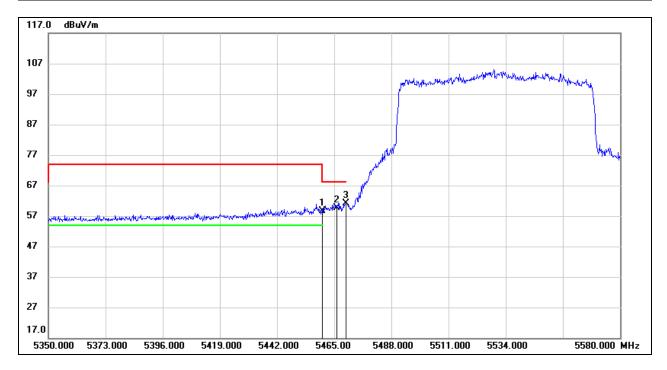
Test Mode:	802.11ax HE80 AV	Frequency(MHz):	5290
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5350.000	9.12	40.49	49.61	54.00	-4.39	AVG
2	5354.840	10.01	40.50	50.51	54.00	-3.49	AVG



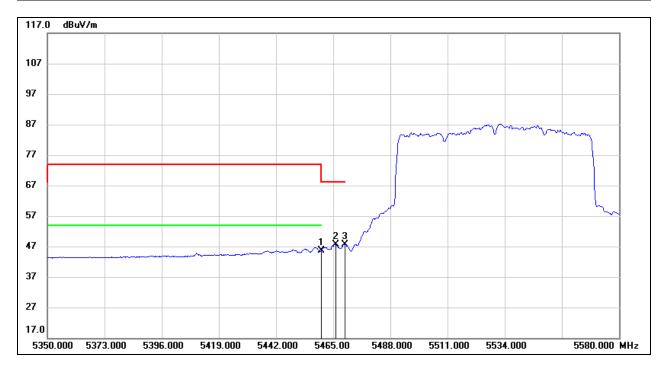
Test Mode:	802.11ax HE80 PK	Frequency(MHz):	5530
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5460.000	17.90	40.62	58.52	74.00	-15.48	peak
2	5465.920	19.10	40.62	59.72	68.20	-8.48	peak
3	5470.000	20.38	40.63	61.01	68.20	-7.19	peak



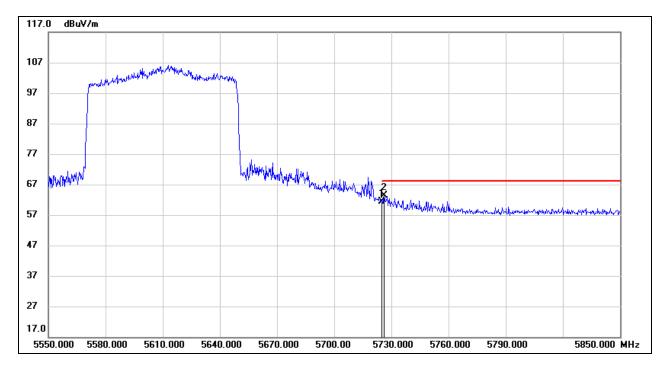
Test Mode:	802.11ax HE80 AV	Frequency(MHz):	5530
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5460.000	4.89	40.62	45.51	54.00	-8.49	AVG
2	5465.920	7.03	40.62	47.65	/	/	1
3	5470.000	6.98	40.63	47.61	/	/	1



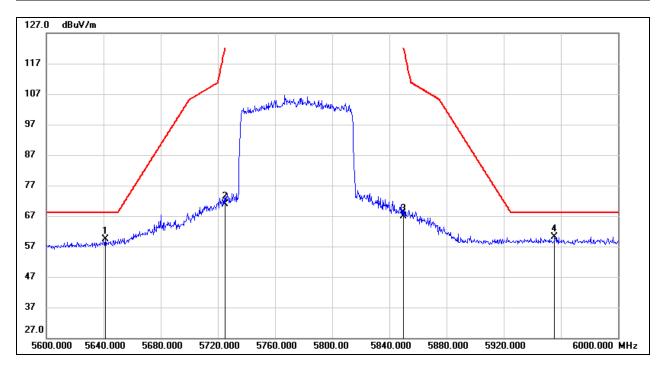
Test Mode:	802.11ax HE80 PK	Frequency(MHz):	5610
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5725.000	20.14	41.27	61.41	68.20	-6.79	peak
2	5726.100	22.04	41.27	63.31	68.20	-4.89	peak



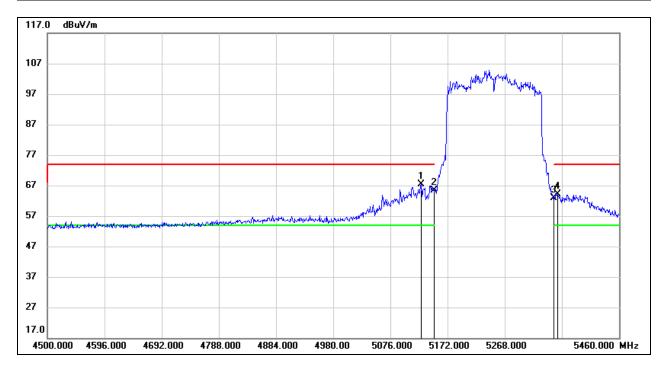
Test Mode:	802.11ax HE80 PK	Frequency(MHz):	5775
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5641.200	18.43	41.04	59.47	68.20	-8.73	peak
2	5725.000	29.52	41.27	70.79	122.20	-51.41	peak
3	5850.000	25.40	41.60	67.00	122.20	-55.20	peak
4	5955.600	18.18	41.89	60.07	68.20	-8.13	peak



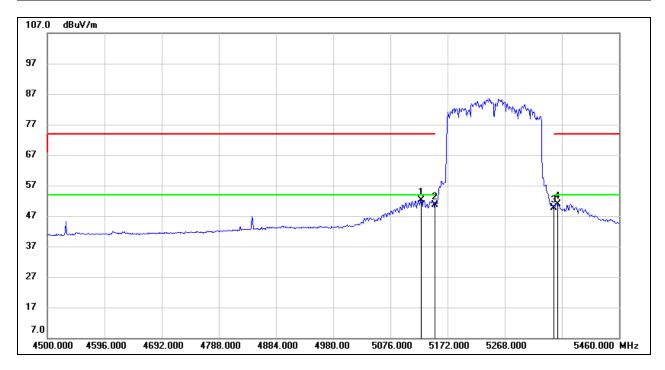
Test Mode:	802.11ax HE160 PK	Frequency(MHz):	5250
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5127.840	27.05	40.25	67.30	74.00	-6.70	peak
2	5150.000	25.00	40.27	65.27	74.00	-8.73	peak
3	5350.000	22.33	40.49	62.82	74.00	-11.18	peak
4	5356.320	23.72	40.50	64.22	74.00	-9.78	peak



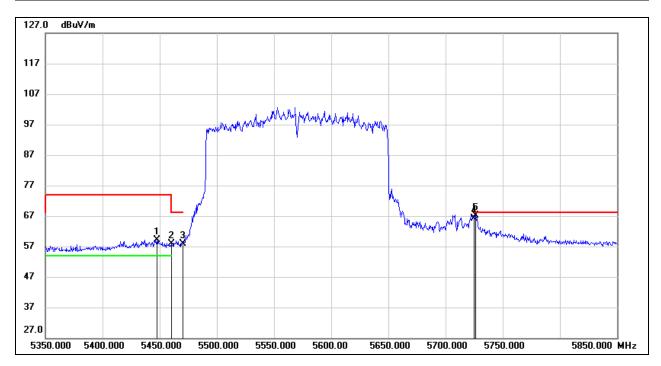
Test Mode:	802.11ax HE160 AV	Frequency(MHz):	5250
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5127.840	11.99	40.25	52.24	54.00	-1.76	AVG
2	5150.000	10.30	40.27	50.57	54.00	-3.43	AVG
3	5350.000	9.08	40.49	49.57	54.00	-4.43	AVG
4	5356.320	10.46	40.50	50.96	54.00	-3.04	AVG



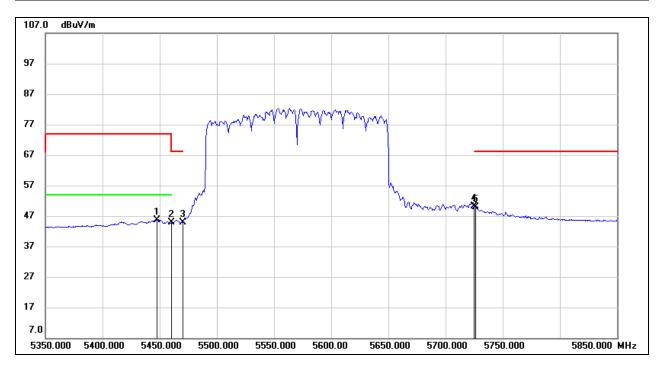
Test Mode:	802.11ax HE160 PK	Frequency(MHz):	5570
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5447.500	18.46	40.61	59.07	74.00	-14.93	peak
2	5460.000	17.18	40.62	57.80	74.00	-16.20	peak
3	5470.000	17.14	40.63	57.77	68.20	-10.43	peak
4	5725.000	24.95	41.27	66.22	68.20	-1.98	peak
5	5726.500	25.88	41.27	67.15	68.20	-1.05	peak



Test Mode:	802.11ax HE160 AV	Frequency(MHz):	5570
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



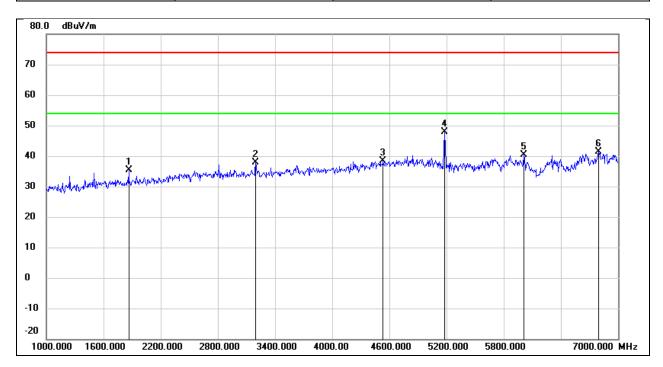
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5447.500	5.09	40.61	45.70	54.00	-8.30	AVG
2	5460.000	4.27	40.62	44.89	/	/	/
3	5470.000	4.36	40.63	44.99	/	/	1
4	5725.000	8.97	41.27	50.24	68.20	-17.96	AVG
5	5726.500	8.70	41.27	49.97	68.20	-18.23	AVG



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## 8.2. SPURIOUS EMISSIONS(1 GHZ~7 GHZ)

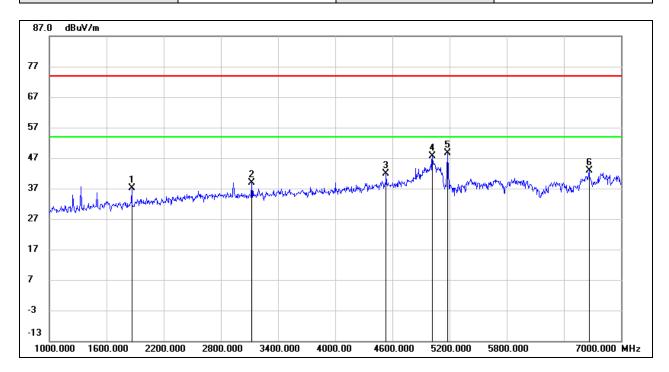
Test Mode:	802.11a 20	Frequency(MHz):	5180
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1864.000	46.86	-11.51	35.35	74.00	-38.65	peak
2	3196.000	44.41	-6.54	37.87	74.00	-36.13	peak
3	4534.000	40.39	-2.01	38.38	74.00	-35.62	peak
4	5176.000	47.75	0.05	47.80	74.00	-26.20	peak
5	6010.000	38.40	1.89	40.29	74.00	-33.71	peak
6	6796.000	36.24	5.19	41.43	74.00	-32.57	peak



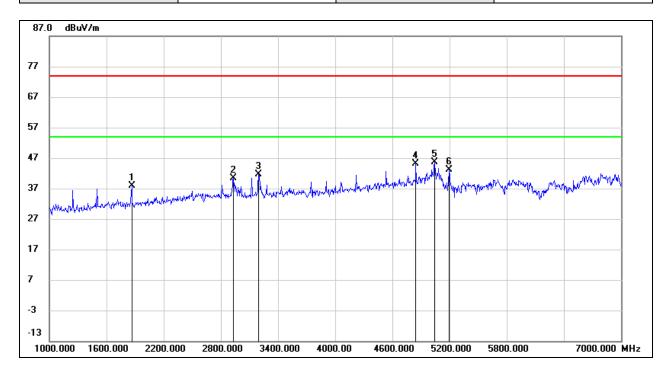
Test Mode:	802.11a 20	Frequency(MHz):	5180
Polarity:	Vertical	Test Voltage:	AC 120V_60Hz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1864.000	48.59	-11.51	37.08	74.00	-36.92	peak
2	3124.000	45.60	-6.70	38.90	74.00	-35.10	peak
3	4534.000	43.96	-2.01	41.95	74.00	-32.05	peak
4	5020.000	47.77	-0.13	47.64	74.00	-26.36	peak
5	5176.000	48.64	0.05	48.69	74.00	-25.31	peak
6	6664.000	38.28	4.54	42.82	74.00	-31.18	peak



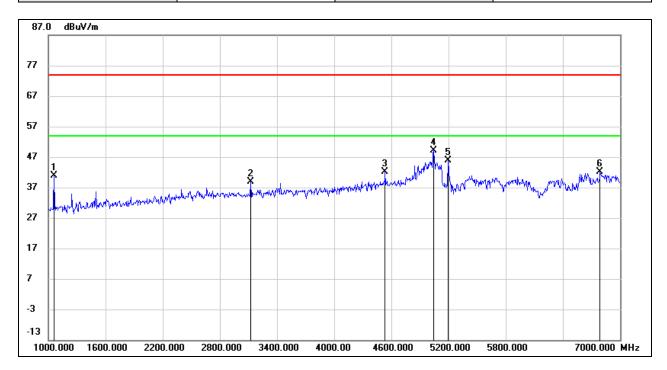
Test Mode:	802.11a 20	Frequency(MHz):	5200
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1864.000	49.28	-11.51	37.77	74.00	-36.23	peak
2	2932.000	47.66	-7.19	40.47	74.00	-33.53	peak
3	3196.000	48.14	-6.54	41.60	74.00	-32.40	peak
4	4846.000	46.00	-0.77	45.23	74.00	-28.77	peak
5	5044.000	45.75	-0.10	45.65	74.00	-28.35	peak
6	5194.000	43.11	0.07	43.18	74.00	-30.82	peak



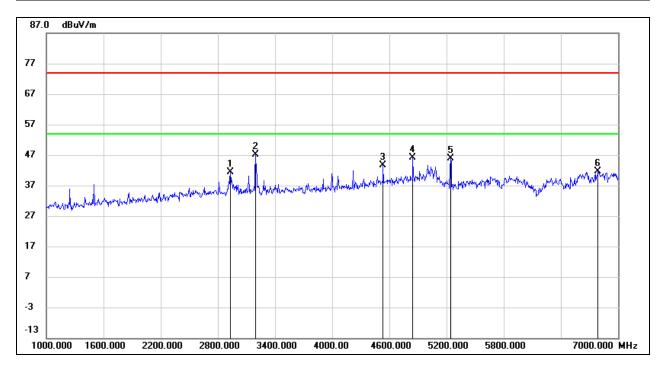
Test Mode:	802.11a 20	Frequency(MHz):	5200
Polarity:	Vertical	Test Voltage:	AC 120V_60Hz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1060.000	55.73	-14.76	40.97	74.00	-33.03	peak
2	3124.000	45.47	-6.70	38.77	74.00	-35.23	peak
3	4534.000	44.12	-2.01	42.11	74.00	-31.89	peak
4	5044.000	49.25	-0.10	49.15	74.00	-24.85	peak
5	5194.000	45.76	0.07	45.83	74.00	-28.17	peak
6	6790.000	36.90	5.15	42.05	74.00	-31.95	peak



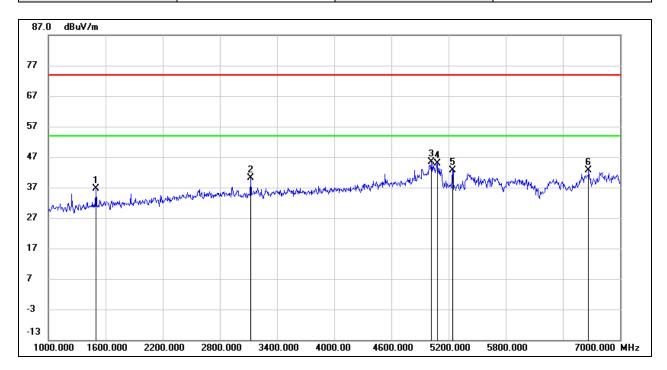
Test Mode:	802.11a 20	Frequency(MHz):	5240
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2932.000	48.68	-7.19	41.49	74.00	-32.51	peak
2	3196.000	53.61	-6.54	47.07	74.00	-26.93	peak
3	4534.000	45.65	-2.01	43.64	74.00	-30.36	peak
4	4846.000	46.93	-0.77	46.16	74.00	-27.84	peak
5	5242.000	45.73	0.12	45.85	74.00	-28.15	peak
6	6790.000	36.49	5.15	41.64	74.00	-32.36	peak



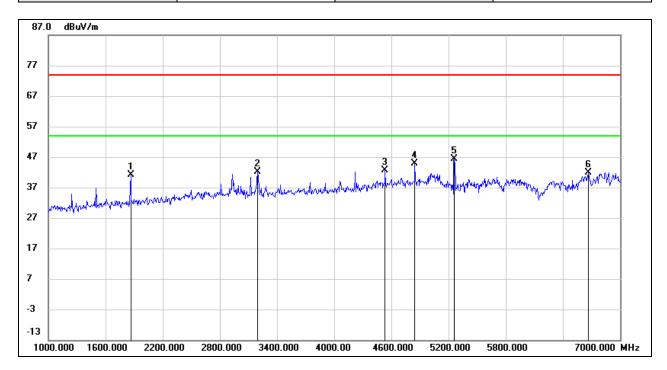
Test Mode:	802.11a 20	Frequency(MHz):	5240
Polarity:	Vertical	Test Voltage:	AC 120V_60Hz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1498.000	49.28	-12.72	36.56	74.00	-37.44	peak
2	3124.000	46.72	-6.70	40.02	74.00	-33.98	peak
3	5020.000	45.55	-0.13	45.42	74.00	-28.58	peak
4	5086.000	45.01	-0.05	44.96	74.00	-29.04	peak
5	5242.000	42.57	0.12	42.69	74.00	-31.31	peak
6	6670.000	37.97	4.57	42.54	74.00	-31.46	peak



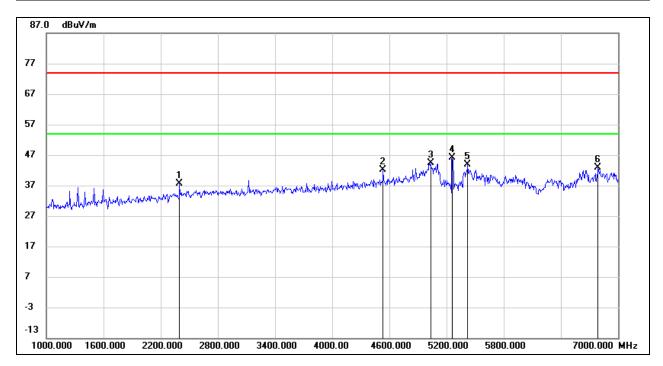
Test Mode:	802.11a 20	Frequency(MHz):	5260
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1864.000	52.55	-11.51	41.04	74.00	-32.96	peak
2	3196.000	48.64	-6.54	42.10	74.00	-31.90	peak
3	4534.000	44.58	-2.01	42.57	74.00	-31.43	peak
4	4846.000	45.64	-0.77	44.87	74.00	-29.13	peak
5	5260.000	46.12	0.15	46.27	74.00	-27.73	peak
6	6670.000	37.41	4.57	41.98	74.00	-32.02	peak



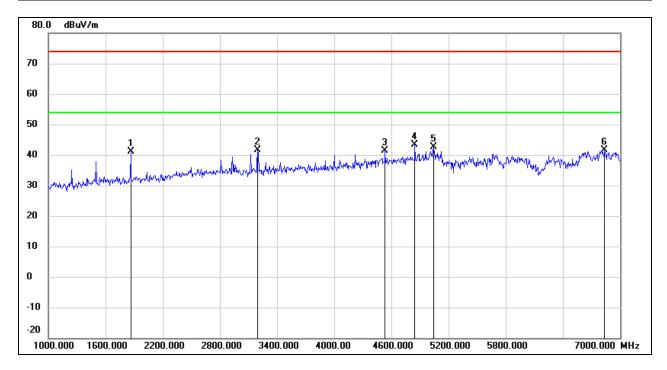
Test Mode:	802.11a 20	Frequency(MHz):	5260
Polarity:	Vertical	Test Voltage:	AC 120V_60Hz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2398.000	46.64	-9.02	37.62	74.00	-36.38	peak
2	4534.000	44.22	-2.01	42.21	74.00	-31.79	peak
3	5032.000	44.39	-0.12	44.27	74.00	-29.73	peak
4	5260.000	45.94	0.15	46.09	74.00	-27.91	peak
5	5422.000	43.47	0.32	43.79	74.00	-30.21	peak
6	6790.000	37.62	5.15	42.77	74.00	-31.23	peak



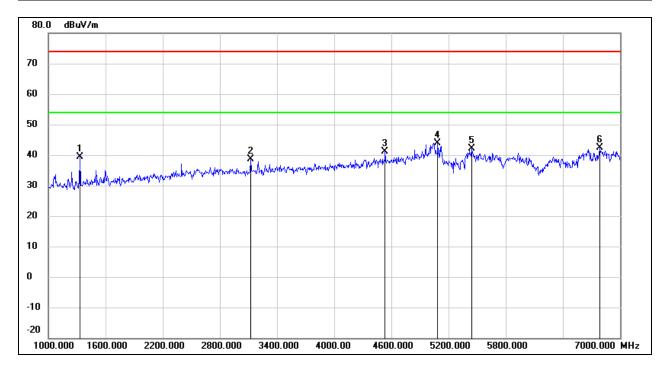
Test Mode:	802.11a 20	Frequency(MHz):	5280
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1864.000	52.58	-11.51	41.07	74.00	-32.93	peak
2	3196.000	48.05	-6.54	41.51	74.00	-32.49	peak
3	4534.000	43.27	-2.01	41.26	74.00	-32.74	peak
4	4846.000	44.24	-0.77	43.47	74.00	-30.53	peak
5	5044.000	42.63	-0.10	42.53	74.00	-31.47	peak
6	6838.000	36.19	5.40	41.59	74.00	-32.41	peak



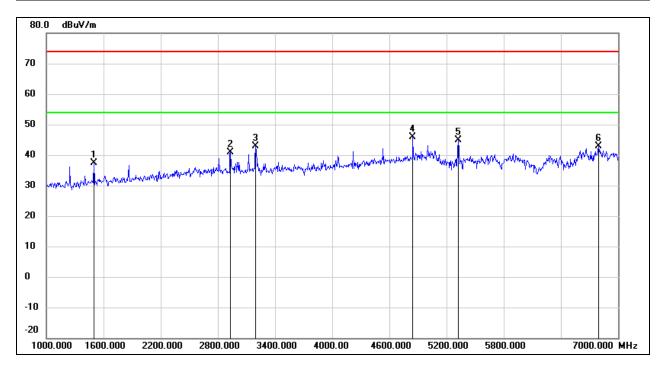
Test Mode:	802.11a 20	Frequency(MHz):	5280
Polarity:	Vertical	Test Voltage:	AC 120V_60Hz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1330.000	52.91	-13.50	39.41	74.00	-34.59	peak
2	3124.000	45.27	-6.70	38.57	74.00	-35.43	peak
3	4534.000	43.17	-2.01	41.16	74.00	-32.84	peak
4	5086.000	43.92	-0.05	43.87	74.00	-30.13	peak
5	5440.000	41.68	0.35	42.03	74.00	-31.97	peak
6	6790.000	37.14	5.15	42.29	74.00	-31.71	peak



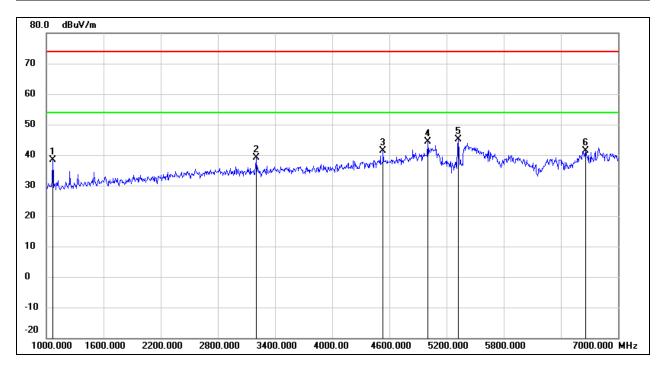
Test Mode:	802.11a 20	Frequency(MHz):	5320
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1498.000	50.16	-12.72	37.44	74.00	-36.56	peak
2	2932.000	48.03	-7.19	40.84	74.00	-33.16	peak
3	3196.000	49.34	-6.54	42.80	74.00	-31.20	peak
4	4846.000	46.55	-0.77	45.78	74.00	-28.22	peak
5	5320.000	44.78	0.21	44.99	74.00	-29.01	peak
6	6796.000	37.65	5.19	42.84	74.00	-31.16	peak



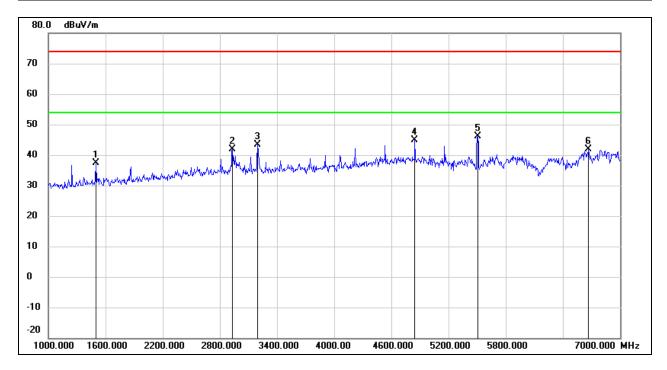
Test Mode:	802.11a 20	Frequency(MHz):	5320
Polarity:	Vertical	Test Voltage:	AC 120V_60Hz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1066.000	53.08	-14.73	38.35	74.00	-35.65	peak
2	3202.000	45.71	-6.53	39.18	74.00	-34.82	peak
3	4534.000	43.39	-2.01	41.38	74.00	-32.62	peak
4	5002.000	44.49	-0.15	44.34	74.00	-29.66	peak
5	5326.000	45.01	0.22	45.23	74.00	-28.77	peak
6	6658.000	36.92	4.49	41.41	74.00	-32.59	peak



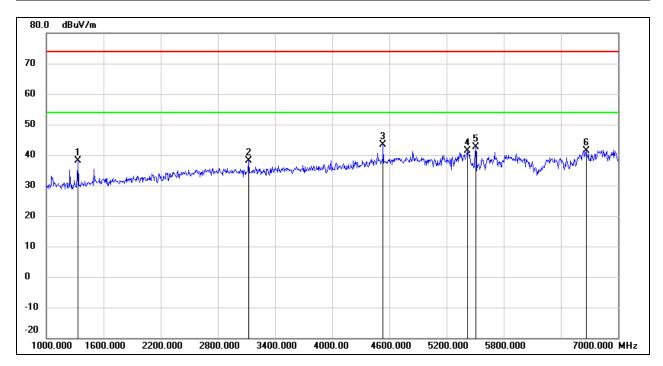
Test Mode:	802.11a 20	Frequency(MHz):	5500
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1498.000	50.02	-12.72	37.30	74.00	-36.70	peak
2	2932.000	49.03	-7.19	41.84	74.00	-32.16	peak
3	3196.000	50.03	-6.54	43.49	74.00	-30.51	peak
4	4846.000	45.75	-0.77	44.98	74.00	-29.02	peak
5	5506.000	45.79	0.44	46.23	74.00	-27.77	peak
6	6670.000	37.40	4.57	41.97	74.00	-32.03	peak



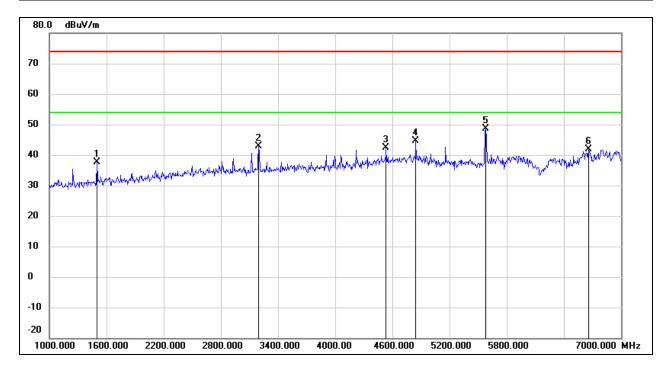
Test Mode:	802.11a 20	Frequency(MHz):	5500
Polarity:	Vertical	Test Voltage:	AC 120V_60Hz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1330.000	51.74	-13.50	38.24	74.00	-35.76	peak
2	3124.000	44.89	-6.70	38.19	74.00	-35.81	peak
3	4534.000	45.48	-2.01	43.47	74.00	-30.53	peak
4	5422.000	41.15	0.32	41.47	74.00	-32.53	peak
5	5506.000	42.26	0.44	42.70	74.00	-31.30	peak
6	6664.000	36.93	4.54	41.47	74.00	-32.53	peak



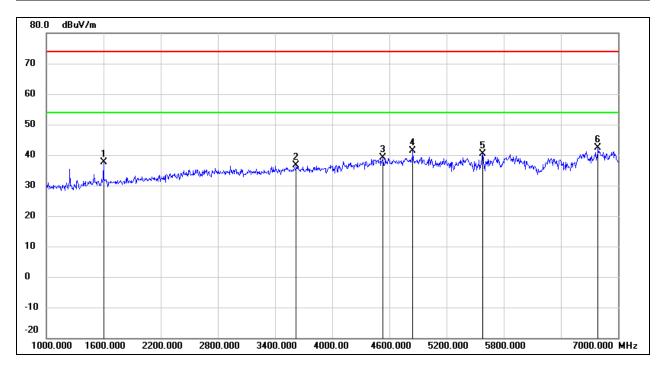
Test Mode:	802.11a 20	Frequency(MHz):	5580
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1498.000	50.45	-12.72	37.73	74.00	-36.27	peak
2	3196.000	49.37	-6.54	42.83	74.00	-31.17	peak
3	4534.000	44.39	-2.01	42.38	74.00	-31.62	peak
4	4846.000	45.35	-0.77	44.58	74.00	-29.42	peak
5	5578.000	47.88	0.65	48.53	74.00	-25.47	peak
6	6658.000	37.35	4.49	41.84	74.00	-32.16	peak



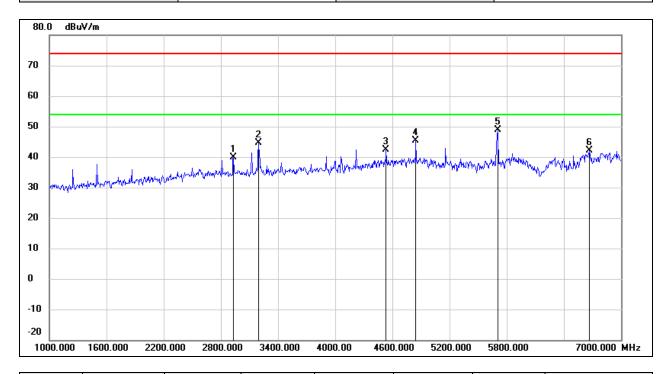
Test Mode:	802.11a 20	Frequency(MHz):	5580
Polarity:	Vertical	Test Voltage:	AC 120V_60Hz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1600.000	49.94	-12.38	37.56	74.00	-36.44	peak
2	3622.000	42.08	-5.52	36.56	74.00	-37.44	peak
3	4534.000	41.05	-2.01	39.04	74.00	-34.96	peak
4	4846.000	42.27	-0.77	41.50	74.00	-32.50	peak
5	5578.000	39.75	0.65	40.40	74.00	-33.60	peak
6	6790.000	37.27	5.15	42.42	74.00	-31.58	peak



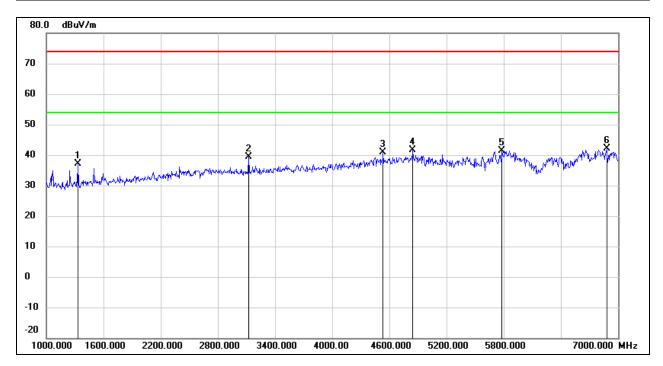
Test Mode:	802.11a 20	Frequency(MHz):	5700
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2932.000	46.97	-7.19	39.78	74.00	-34.22	peak
2	3196.000	51.15	-6.54	44.61	74.00	-29.39	peak
3	4534.000	44.45	-2.01	42.44	74.00	-31.56	peak
4	4846.000	46.06	-0.77	45.29	74.00	-28.71	peak
5	5704.000	47.97	1.00	48.97	74.00	-25.03	peak
6	6670.000	37.64	4.57	42.21	74.00	-31.79	peak



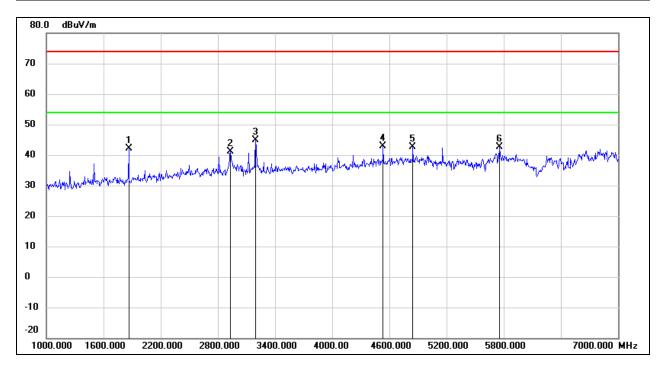
Test Mode:	802.11a 20	Frequency(MHz):	5700
Polarity:	Vertical	Test Voltage:	AC 120V_60Hz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1330.000	50.74	-13.50	37.24	74.00	-36.76	peak
2	3124.000	45.97	-6.70	39.27	74.00	-34.73	peak
3	4534.000	43.00	-2.01	40.99	74.00	-33.01	peak
4	4846.000	42.30	-0.77	41.53	74.00	-32.47	peak
5	5782.000	40.14	1.23	41.37	74.00	-32.63	peak
6	6880.000	36.43	5.60	42.03	74.00	-31.97	peak



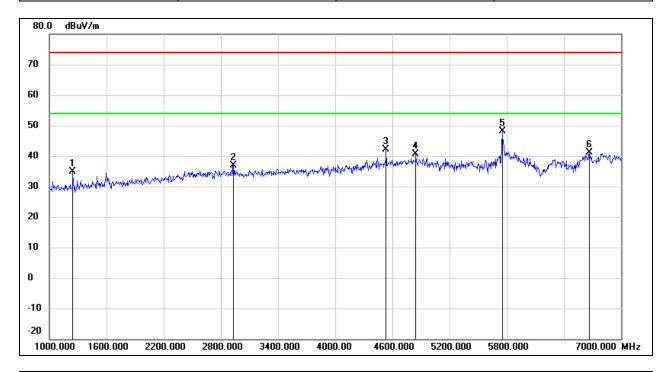
Test Mode:	802.11a 20	Frequency(MHz):	5720
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1864.000	53.57	-11.51	42.06	74.00	-31.94	peak
2	2932.000	48.26	-7.19	41.07	74.00	-32.93	peak
3	3196.000	51.45	-6.54	44.91	74.00	-29.09	peak
4	4534.000	44.82	-2.01	42.81	74.00	-31.19	peak
5	4846.000	43.43	-0.77	42.66	74.00	-31.34	peak
6	5758.000	41.56	1.16	42.72	74.00	-31.28	peak



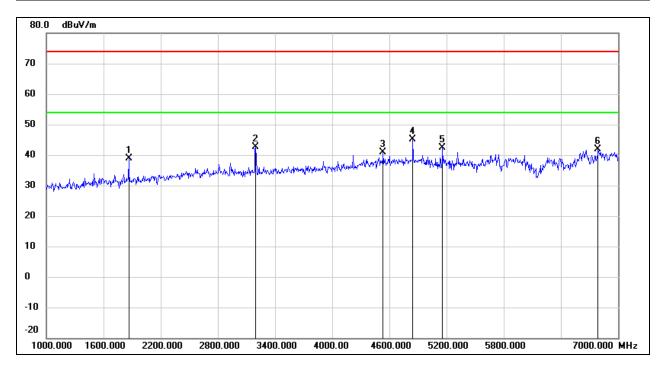
Test Mode:	802.11a 20	Frequency(MHz):	5720
Polarity:	Vertical	Test Voltage:	AC 120V_60Hz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1246.000	48.84	-13.88	34.96	74.00	-39.04	peak
2	2932.000	44.05	-7.19	36.86	74.00	-37.14	peak
3	4534.000	44.24	-2.01	42.23	74.00	-31.77	peak
4	4846.000	41.35	-0.77	40.58	74.00	-33.42	peak
5	5752.000	47.04	1.14	48.18	74.00	-25.82	peak
6	6664.000	36.67	4.54	41.21	74.00	-32.79	peak



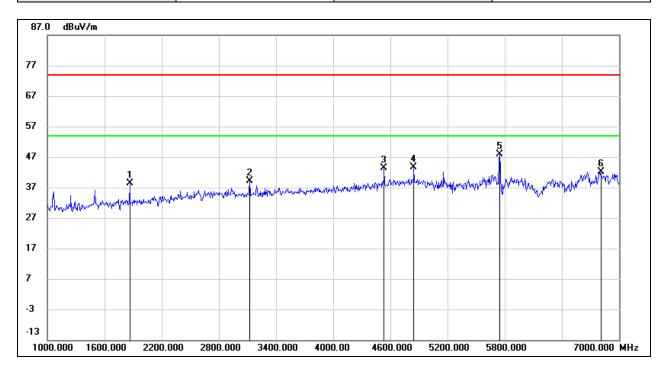
Test Mode:	802.11a 20	Frequency(MHz):	5745
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1864.000	50.35	-11.51	38.84	74.00	-35.16	peak
2	3196.000	49.20	-6.54	42.66	74.00	-31.34	peak
3	4534.000	42.85	-2.01	40.84	74.00	-33.16	peak
4	4846.000	45.80	-0.77	45.03	74.00	-28.97	peak
5	5158.000	42.27	0.04	42.31	74.00	-31.69	peak
6	6790.000	36.71	5.15	41.86	74.00	-32.14	peak



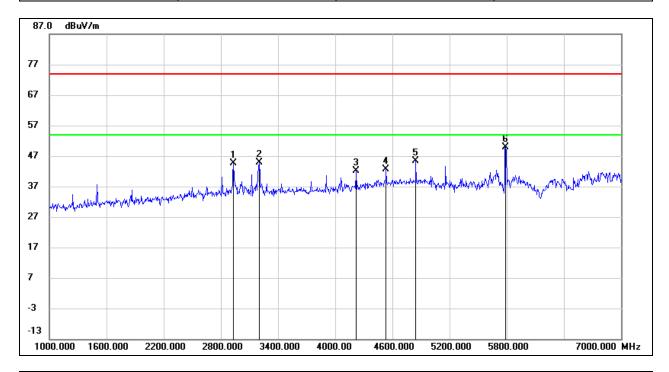
Test Mode:	802.11a 20	Frequency(MHz):	5745
Polarity:	Vertical	Test Voltage:	AC 120V_60Hz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1864.000	49.77	-11.51	38.26	74.00	-35.74	peak
2	3124.000	45.83	-6.70	39.13	74.00	-34.87	peak
3	4534.000	45.45	-2.01	43.44	74.00	-30.56	peak
4	4846.000	44.32	-0.77	43.55	74.00	-30.45	peak
5	5746.000	46.69	1.12	47.81	74.00	-26.19	peak
6	6808.000	36.85	5.24	42.09	74.00	-31.91	peak



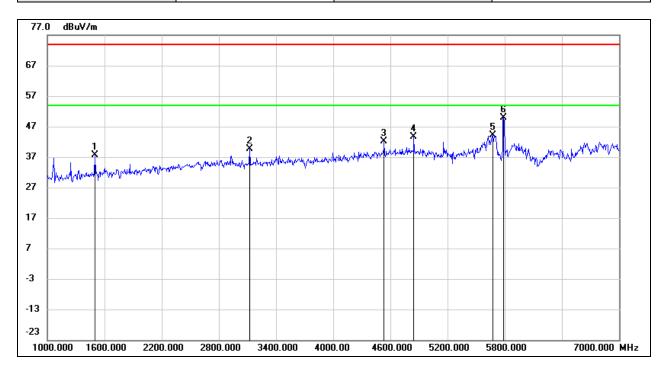
Test Mode:	802.11a 20	Frequency(MHz):	5785
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2932.000	51.75	-7.19	44.56	74.00	-29.44	peak
2	3202.000	51.30	-6.53	44.77	74.00	-29.23	peak
3	4222.000	45.47	-3.44	42.03	74.00	-31.97	peak
4	4534.000	44.69	-2.01	42.68	74.00	-31.32	peak
5	4846.000	46.27	-0.77	45.50	74.00	-28.50	peak
6	5788.000	48.61	1.25	49.86	74.00	-24.14	peak



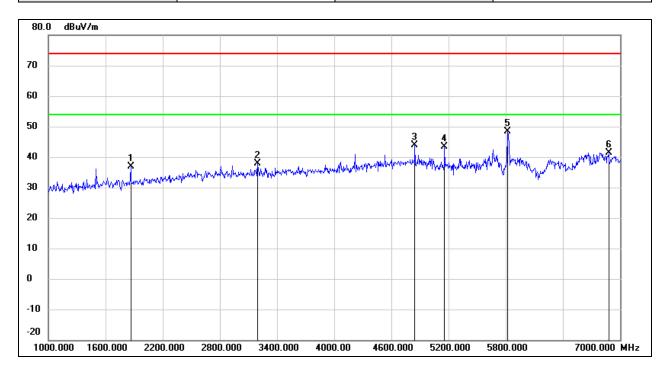
Test Mode:	802.11a 20	Frequency(MHz):	5785
Polarity:	Vertical	Test Voltage:	AC 120V_60Hz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1498.000	50.40	-12.72	37.68	74.00	-36.32	peak
2	3124.000	46.24	-6.70	39.54	74.00	-34.46	peak
3	4534.000	44.09	-2.01	42.08	74.00	-31.92	peak
4	4846.000	44.51	-0.77	43.74	74.00	-30.26	peak
5	5674.000	43.13	0.92	44.05	74.00	-29.95	peak
6	5788.000	48.73	1.25	49.98	74.00	-24.02	peak



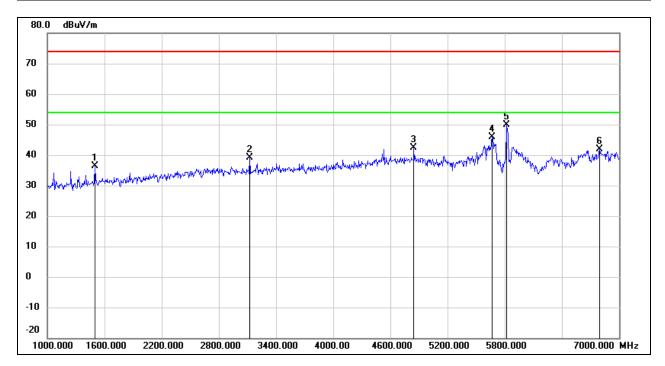
Test Mode:	802.11a 20	Frequency(MHz):	5825
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1864.000	48.30	-11.51	36.79	74.00	-37.21	peak
2	3196.000	44.50	-6.54	37.96	74.00	-36.04	peak
3	4846.000	44.77	-0.77	44.00	74.00	-30.00	peak
4	5158.000	43.25	0.04	43.29	74.00	-30.71	peak
5	5818.000	47.12	1.33	48.45	74.00	-25.55	peak
6	6880.000	35.86	5.60	41.46	74.00	-32.54	peak



Test Mode:	802.11a 20	Frequency(MHz):	5825
Polarity:	Vertical	Test Voltage:	AC 120V_60Hz



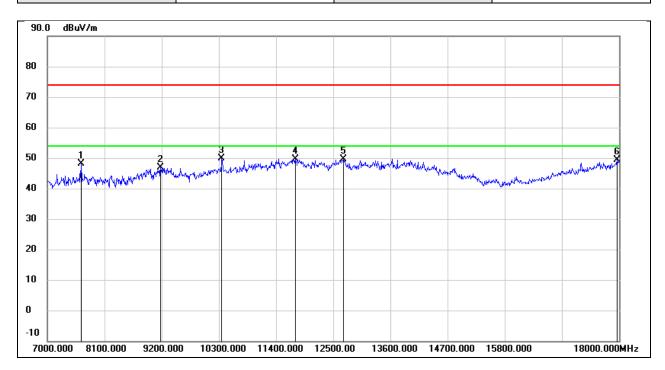
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1498.000	49.07	-12.72	36.35	74.00	-37.65	peak
2	3124.000	45.95	-6.70	39.25	74.00	-34.75	peak
3	4846.000	43.09	-0.77	42.32	74.00	-31.68	peak
4	5668.000	44.97	0.91	45.88	74.00	-28.12	peak
5	5818.000	48.50	1.33	49.83	74.00	-24.17	peak
6	6796.000	36.70	5.19	41.89	74.00	-32.11	peak



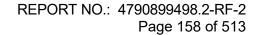
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## 8.3. SPURIOUS EMISSIONS(7 GHZ~18 GHZ)

Test Mode:	802.11a 20	Frequency(MHz):	5180
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz

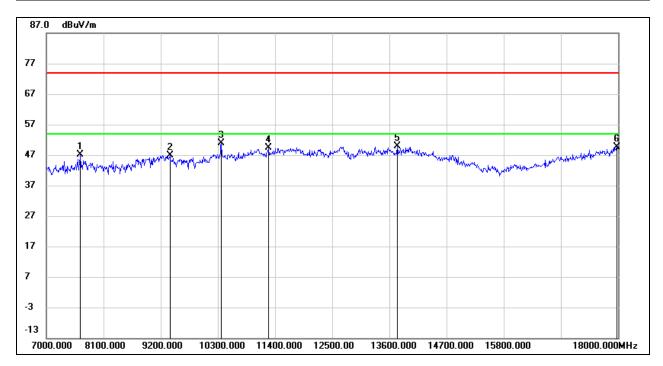


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	7649.000	41.29	6.74	48.03	74.00	-25.97	peak
2	9178.000	36.41	10.45	46.86	74.00	-27.14	peak
3	10355.000	37.32	12.52	49.84	74.00	-24.16	peak
4	11774.000	32.44	17.28	49.72	74.00	-24.28	peak
5	12698.000	31.67	18.08	49.75	74.00	-24.25	peak
6	17956.000	23.52	25.82	49.34	74.00	-24.66	peak





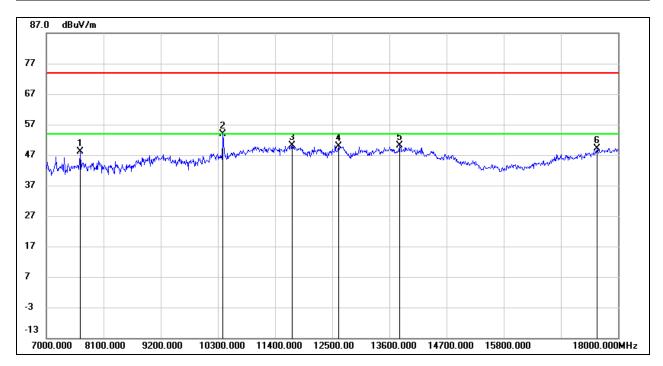
Test Mode:	802.11a 20	Frequency(MHz):	5180
Polarity:	Vertical	Test Voltage:	AC 120V_60Hz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	7649.000	40.48	6.74	47.22	74.00	-26.78	peak
2	9376.000	36.41	10.58	46.99	74.00	-27.01	peak
3	10366.000	38.37	12.54	50.91	74.00	-23.09	peak
4	11268.000	33.55	15.83	49.38	74.00	-24.62	peak
5	13754.000	28.50	21.27	49.77	74.00	-24.23	peak
6	17978.000	23.62	25.97	49.59	74.00	-24.41	peak



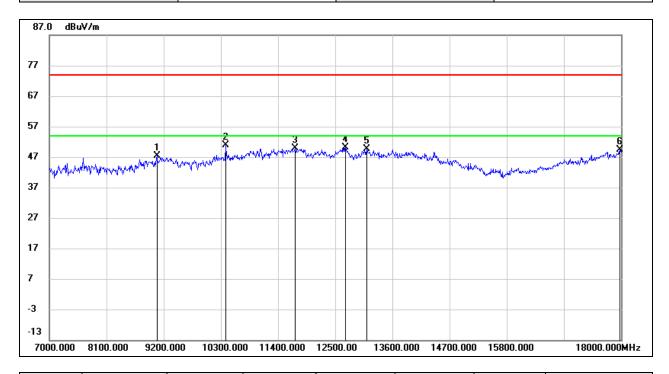
Test Mode:	802.11a 20	Frequency(MHz):	5200
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	7649.000	41.42	6.74	48.16	74.00	-25.84	peak
2	10399.000	41.28	12.61	53.89	74.00	-20.11	peak
3	11730.000	32.87	17.19	50.06	74.00	-23.94	peak
4	12621.000	31.85	17.98	49.83	74.00	-24.17	peak
5	13798.000	28.80	21.38	50.18	74.00	-23.82	peak
6	17593.000	25.90	23.34	49.24	74.00	-24.76	peak



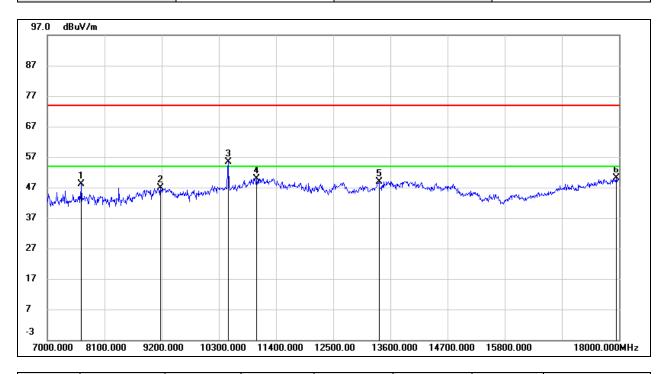
Test Mode:	802.11a 20	Frequency(MHz):	5200
Polarity:	Vertical	Test Voltage:	AC 120V_60Hz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	9068.000	36.91	10.39	47.30	74.00	-26.70	peak
2	10388.000	38.24	12.59	50.83	74.00	-23.17	peak
3	11730.000	32.58	17.19	49.77	74.00	-24.23	peak
4	12698.000	32.03	18.08	50.11	74.00	-23.89	peak
5	13105.000	30.68	18.91	49.59	74.00	-24.41	peak
6	17978.000	23.31	25.97	49.28	74.00	-24.72	peak



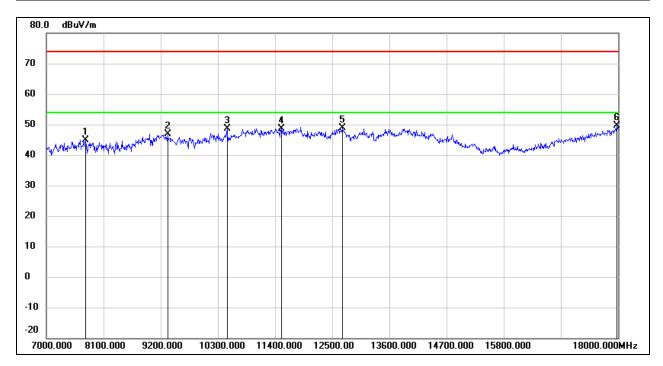
Test Mode:	802.11a 20	Frequency(MHz):	5240
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	7649.000	41.35	6.74	48.09	74.00	-25.91	peak
2	9178.000	36.45	10.45	46.90	74.00	-27.10	peak
3	10476.000	42.49	12.77	55.26	74.00	-18.74	peak
4	11026.000	35.09	14.82	49.91	74.00	-24.09	peak
5	13380.000	28.83	20.12	48.95	74.00	-25.05	peak
6	17945.000	24.42	25.75	50.17	74.00	-23.83	peak



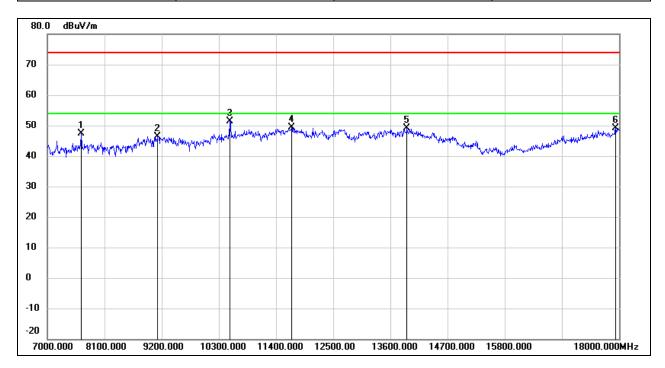
Test Mode:	802.11a 20	Frequency(MHz):	5240
Polarity:	Vertical	Test Voltage:	AC 120V_60Hz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	7759.000	38.25	6.64	44.89	74.00	-29.11	peak
2	9332.000	36.34	10.54	46.88	74.00	-27.12	peak
3	10476.000	35.89	12.77	48.66	74.00	-25.34	peak
4	11521.000	31.88	16.82	48.70	74.00	-25.30	peak
5	12698.000	30.88	18.08	48.96	74.00	-25.04	peak
6	17978.000	23.76	25.97	49.73	74.00	-24.27	peak



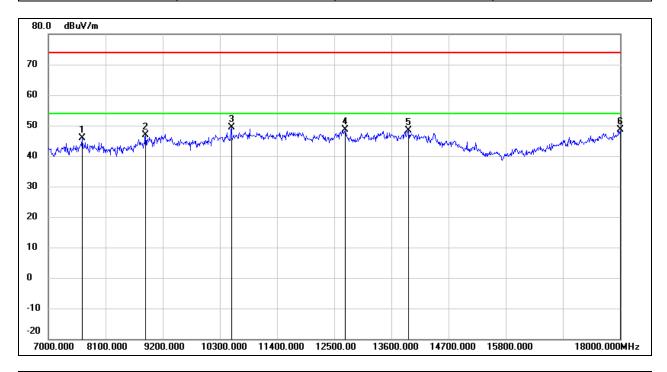
Test Mode:	802.11a 20	Frequency(MHz):	5260
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	7649.000	40.55	6.74	47.29	74.00	-26.71	peak
2	9123.000	35.90	10.42	46.32	74.00	-27.68	peak
3	10509.000	38.55	12.85	51.40	74.00	-22.60	peak
4	11697.000	32.14	17.13	49.27	74.00	-24.73	peak
5	13919.000	27.45	21.68	49.13	74.00	-24.87	peak
6	17934.000	23.44	25.67	49.11	74.00	-24.89	peak



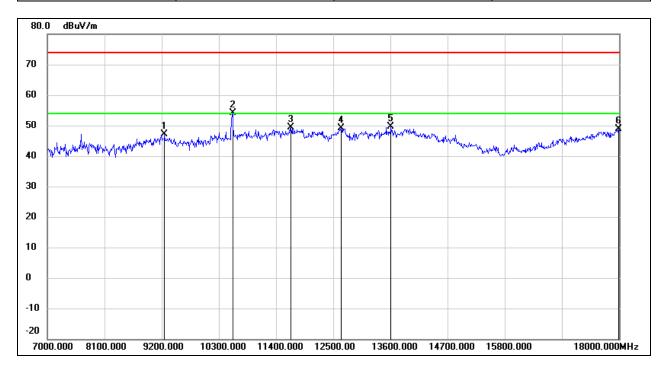
Test Mode:	802.11a 20	Frequency(MHz):	5260
Polarity:	Vertical	Test Voltage:	AC 120V_60Hz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	7649.000	39.26	6.74	46.00	74.00	-28.00	peak
2	8870.000	37.37	9.44	46.81	74.00	-27.19	peak
3	10520.000	36.39	12.90	49.29	74.00	-24.71	peak
4	12709.000	30.45	18.09	48.54	74.00	-25.46	peak
5	13930.000	26.67	21.71	48.38	74.00	-25.62	peak
6	18000.000	22.62	26.12	48.74	74.00	-25.26	peak



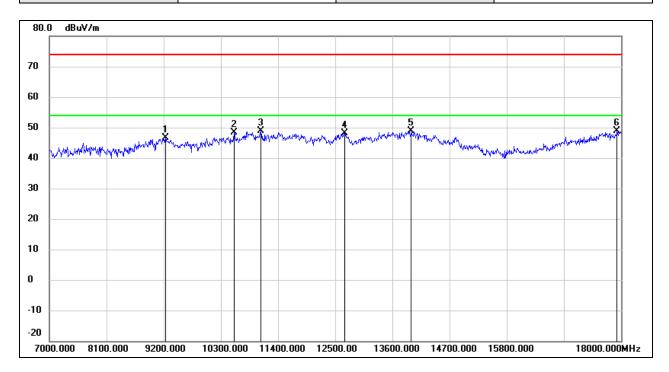
Test Mode:	802.11a 20	Frequency(MHz):	5280
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	9255.000	36.72	10.50	47.22	74.00	-26.78	peak
2	10564.000	41.00	13.06	54.06	74.00	-19.94	peak
3	11686.000	32.29	17.12	49.41	74.00	-24.59	peak
4	12654.000	31.12	18.01	49.13	74.00	-24.87	peak
5	13611.000	28.60	20.92	49.52	74.00	-24.48	peak
6	17989.000	22.74	26.04	48.78	74.00	-25.22	peak



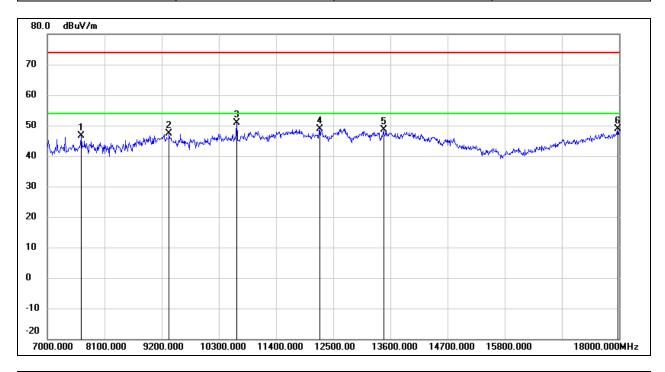
Test Mode:	802.11a 20	Frequency(MHz):	5280
Polarity:	Vertical	Test Voltage:	AC 120V_60Hz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	9233.000	36.18	10.48	46.66	74.00	-27.34	peak
2	10553.000	35.44	13.02	48.46	74.00	-25.54	peak
3	11070.000	33.91	15.01	48.92	74.00	-25.08	peak
4	12676.000	30.18	18.05	48.23	74.00	-25.77	peak
5	13963.000	27.03	21.78	48.81	74.00	-25.19	peak
6	17923.000	23.25	25.60	48.85	74.00	-25.15	peak



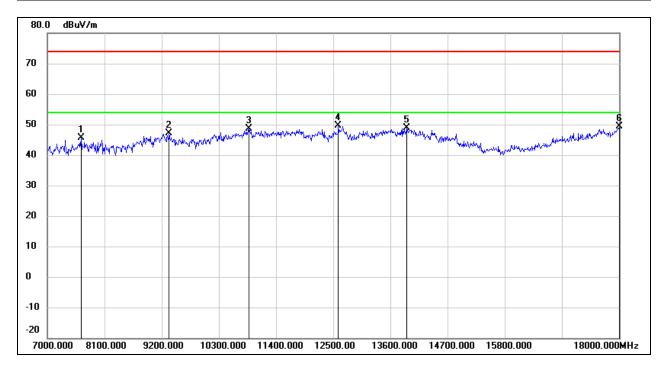
Test Mode:	802.11a 20	Frequency(MHz):	5320
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	7649.000	39.93	6.74	46.67	74.00	-27.33	peak
2	9343.000	36.90	10.55	47.45	74.00	-26.55	peak
3	10641.000	37.47	13.36	50.83	74.00	-23.17	peak
4	12236.000	31.07	17.76	48.83	74.00	-25.17	peak
5	13468.000	28.12	20.50	48.62	74.00	-25.38	peak
6	17978.000	22.81	25.97	48.78	74.00	-25.22	peak



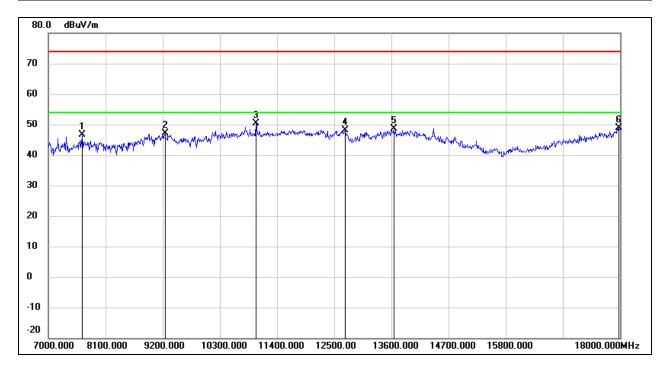
Test Mode:	802.11a 20	Frequency(MHz):	5320
Polarity:	Vertical	Test Voltage:	AC 120V_60Hz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	7649.000	38.87	6.74	45.61	74.00	-28.39	peak
2	9343.000	36.56	10.55	47.11	74.00	-26.89	peak
3	10872.000	34.33	14.23	48.56	74.00	-25.44	peak
4	12599.000	31.71	17.95	49.66	74.00	-24.34	peak
5	13919.000	27.08	21.68	48.76	74.00	-25.24	peak
6	18000.000	23.35	26.12	49.47	74.00	-24.53	peak



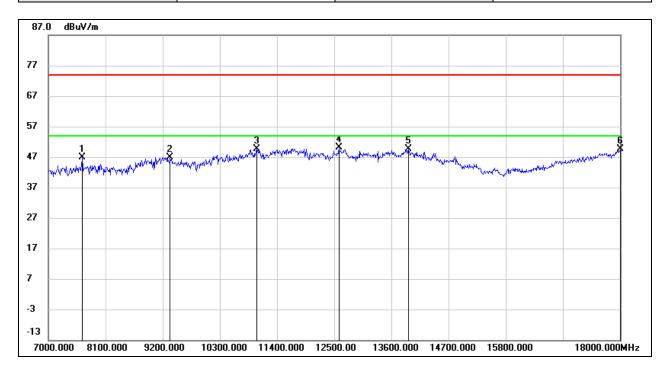
Test Mode:	802.11a 20	Frequency(MHz):	5500
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	7649.000	39.84	6.74	46.58	74.00	-27.42	peak
2	9244.000	36.52	10.49	47.01	74.00	-26.99	peak
3	10993.000	35.78	14.70	50.48	74.00	-23.52	peak
4	12709.000	30.09	18.09	48.18	74.00	-25.82	peak
5	13644.000	27.61	20.99	48.60	74.00	-25.40	peak
6	17978.000	22.98	25.97	48.95	74.00	-25.05	peak



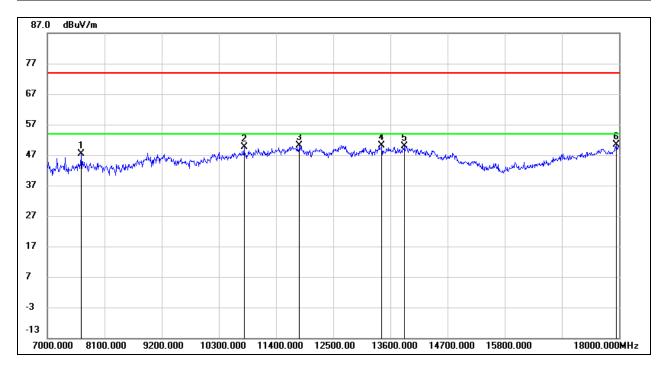
Test Mode:	802.11a 20	Frequency(MHz):	5500
Polarity:	Vertical	Test Voltage:	AC 120V_60Hz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	7649.000	40.10	6.74	46.84	74.00	-27.16	peak
2	9343.000	36.45	10.55	47.00	74.00	-27.00	peak
3	11004.000	35.00	14.74	49.74	74.00	-24.26	peak
4	12588.000	32.09	17.94	50.03	74.00	-23.97	peak
5	13930.000	27.91	21.71	49.62	74.00	-24.38	peak
6	18000.000	23.44	26.12	49.56	74.00	-24.44	peak



Test Mode:	802.11a 20	Frequency(MHz):	5580
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	7649.000	40.63	6.74	47.37	74.00	-26.63	peak
2	10784.000	35.79	13.91	49.70	74.00	-24.30	peak
3	11851.000	32.62	17.43	50.05	74.00	-23.95	peak
4	13435.000	29.66	20.35	50.01	74.00	-23.99	peak
5	13875.000	28.42	21.57	49.99	74.00	-24.01	peak
6	17945.000	24.68	25.75	50.43	74.00	-23.57	peak