



CFR 47 FCC PART 15 SUBPART E

TEST REPORT

For

CAR MULTIMEDIA

MODEL NUMBER: M3GL06L, M3GL06R

FCC ID: 2AEQT-M3GL06L

REPORT NUMBER: 4790583817-RF-4

ISSUE DATE: March 24, 2023

Prepared for

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Prepared by

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Revision History

Rev.	Issue Date	Revisions	Revised By
V0	March 24, 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 AND 99% OCCUPIED 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	Not Applicable (See Note ***)
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	/	FCC 15.407 (g)	Pass
Antenna Requirement	N/A	FCC 47 CFR Part 15.203 15.407(a)(1) (2),	Pass

^{*}This test report is only published to and used by the applicant, and it is not for evidence purpose in China.

^{**}The measurement result for the sample received is <Pass> according to <CFR 47 FCC PART 15 SUBPART E and ISED RSS-247 ISSUE 2> when <Accuracy Method> decision rule is applied.

^{***} The EUT is an In-Vehicle devices.



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1. ATTESTATION OF TEST RESULTS

Applicant Information

Company Name: Huizhou Desay SV Automotive Co., Ltd.

Address: NO.103, Hechang 5th Road West, Zhongkai National Hi-tech

Industrial Development Zone, Huizhou, Guangdong, P.R. China

Manufacturer Information

Company Name: Huizhou Desay SV Automotive Co., Ltd.

Address: NO.103, Hechang 5th Road West, Zhongkai National Hi-tech

Industrial Development Zone, Huizhou, Guangdong, P.R. China

EUT Information

Dropored By

Operations Manager

EUT Name: CAR MULTIMEDIA Model: M3GL06L, M3GL06R

Model Difference: The difference lies only the touch screen buttons of the front

panel of the host are opposite, and the front panel Layout is

opposite for these two models.

Brand: DESAY SV

Sample Received Date: February 7, 2023

Sample ID: 5766290

Date of Tested: February 15, 2023 to March 24, 2023

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

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гтератец Бу.	Checked by.
Danny Grany	kebo. Theng
Denny Huang	Kebo Zhang
Senior Project Engineer	Senior Project Engineer
Approved By:	
Stephen Luo	
Stephen Guo	



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2. TEST METHODOLOGY

All tests were performed in accordance with the standard ANSI C63.10-2013, CFR 47 FCC Part 2, CFR 47 FCC Part 15, KDB 789033 D02 v02r01, KDB414788 D01 Radiated Test Site v01, KDB 662911 D01 Multiple Transmitter Output v02r01.

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)
Accreditation	UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch.
Certificate	has been registered and fully described in a report filed with ISED.
The Company Number is 21320 and the test lab Conformity Asses	
	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

Note 1:

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.

Note 2:

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.

Note 3:

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:

Uncertainty
3.62 dB
2.2 dB
4.00 dB
5.78 dB (1 GHz ~ 18 GHz)
5.23 dB (18 GHz ~ 26 GHz)
±0.028%
±0.0196%
±0.766 dB
±1.22 dB
±2.76%
±1.328 dB
±0.746 dB (9 kHz ~ 1 GHz)
±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	CAR MULTIMEDIA
Model	M3GL06L, M3GL06R
Model Difference:	The difference lies only the touch screen buttons of the front panel of the host are opposite, and the front panel Layout is opposite for these two models. Pre-scan had been done for both the two models and only the worst case data (M3GL06L) was recorded in the report.
Radio Technology	WLAN (IEEE 802.11a/n HT20/n HT40/ac VHT20/VHT 40/VHT 80)
Operation	UNII-1: 5150 ~ 5250 MHz
Frequency	UNII-3: 5725 ~ 5850 MHz
Modulation	IEEE 802.11a: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11n HT20: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11n HT40: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11ac VHT20: OFDM (256QAM, 64QAM, 16QAM, QPSK, BPSK) IEEE 802.11ac VHT40: OFDM (256QAM, 64QAM, 16QAM, QPSK, BPSK) IEEE 802.11ac VHT80: OFDM (256QAM, 64QAM, 16QAM, QPSK, BPSK)
Ratings	DC 12 V

5.2. CHANNEL LIST

UNII-1		UNII-1		UNII-1	
(For Bandwid	(For Bandwidth=20MHz)		(For Bandwidth=40MHz)		dth=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-3		UNII-3		UNII-3	
(For Bandwid	(For Bandwidth=20MHz)		(For Bandwidth=40MHz)		dth=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 OUTPUT POWER

UNII-1 BAND

IEEE Std. 802.11 Frequency (MHz)		Maximum Average Conducted Power (dBm)	Max Average EIRP (dBm)
а		15.22	16.27
n HT20	5150 ~ 5250	14.91	15.96
n HT40	3130 ~ 3230	15.52	16.57
ac VHT80		14.58	15.63

UNII-3 BAND

IEEE Std. 802.11	Frequency (MHz)	Maximum Average Conducted Power (dBm)
а		15.24
n HT20	5725 ~ 5850	14.54
n HT40	3723 ~ 3830	15.04
ac VHT80		13.46

5.4. TEST CHANNEL CONFIGURATION

UNII-1 Test Channel Configuration					
IEEE Std.	Test Channel Number	Frequency			
802.11a	CH 36(Low Channel), CH 40(MID Channel), CH 48(High Channel)	5180 MHz, 5200 MHz, 5240 MHz			
802.11n HT20	CH 36(Low Channel), CH 40(MID Channel), CH 48(High Channel)	5180 MHz, 5200 MHz, 5240 MHz			
802.11n HT40	CH 38(Low Channel), CH 46(High Channel)	5190 MHz, 5230 MHz			
802.11ac VHT80	CH 42(Low Channel)	5210 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			
802.11n HT20	CH 149(Low Channel), CH 157(MID Channel), CH 165(High Channel)	5745 MHz, 5785 MHz, 5825 MHz			
802.11n HT40	CH 151(Low Channel), CH 159(High Channel)	5755MHz, 5795MHz			
802.11ac VHT80	CH 155(Low Channel)	5775 MHz			



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5.5. THE WORSE CASE POWER SETTING PARAMETER

The Worse Case Power Setting Parameter		
Test Software	adb	

UNII-1

Mode	Rate	Channel	Soft set value
Ivioue	Nate	Charine	ANT 1
		36	20
11a	6M	40	20
		48	20
		36	20
11ac VHT20	MCS0	40	20
		48	20
11ac VHT40	MCSO	38	18
TIAC VHT40	MCS0	46	18
11ac VHT80	MCS0	42	19

UNII-3

	011110		Soft set value
Mode	Rate	Channel	ANT1
		149	20
11a	6M	157	20
		165	20
		149	18
11ac VHT20	MCS0	157	20
		165	20
44 co \/LIT40	MCCO	151	16
11ac VHT40	MCS0	159	17
11ac VHT80	MCS0	155	20

Note: 802.11n HT20 mode and 802.11n HT40 were covered by 802.11ac VHT20.



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5.6. DESCRIPTION OF AVAILABLE ANTENNAS

Antenna No.	Frequency Band	Antenna Type	Maximum Antenna Gain (dBi)
1	5150-5850	PCB	1.049

IEE Std. 802.11	Transmit and Receive Mode	Description
802.11a20	⊠1TX, 1RX	ANT 1 can be used as transmitting/receiving antenna.
802.11n HT20	⊠1TX, 1RX	ANT 1 can be used as transmitting/receiving antenna.
802.11n HT40	⊠1TX, 1RX	ANT 1 can be used as transmitting/receiving antenna.
802.11ac VHT20	⊠1TX, 1RX	ANT 1 can be used as transmitting/receiving antenna.
802.11ac VHT40	⊠1TX, 1RX	ANT 1 can be used as transmitting/receiving antenna.
802.11ac VHT80	⊠1TX, 1RX	ANT 1 can be used as transmitting/receiving antenna.

Note: The value of the antenna gain was declared by customer.

5.7. THE 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 5.6.

Worst case Data Rates declared by the customer:

802.11a 20 mode: 6 Mbps 802.11n HT20 mode: MCS0 802.11n HT40 mode: MCS0 802.11ac VHT20 mode: MCS0 802.11ac VHT40 mode: MCS0 802.11ac VHT80 mode: MCS0

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

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5.8. DESCRIPTION OF TEST SETUP

SUPPORT EQUIPMENT

Item	Equipment	Brand Name	Model Name	Remarks
1	Laptop	Lenovo	XIAOXIN 5000	/
2	UART	/	/	/

I/O CABLES

Cable No	Port	Connector Type	Cable Type	Cable Length(m)	Remarks
1	DC	/	/	1	/

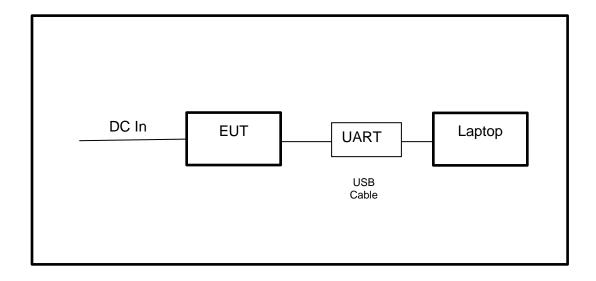
ACCESSORIES

Item	Accessory	Brand Name	Model Name	Description
1	/	/	/	1

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

R&S TS 8997 Test System									
Equipment	ľ	Manufacturer N		Model	No.	Serial No.	Last C	al.	Due. Date
Power sensor, Power M	leter	R&S		OSP1	20	100921	Apr.02,2	2022	Apr.01,2023
Vector Signal Genera	tor	R&S		SMBV1	00A	261637	Oct.17, 2	2022	Oct.16, 2023
Signal Generator		R&S		SMB10)0A	178553	Oct.17, 2	2022	Oct.16, 2023
Signal Analyzer		R&S		FSV4	Ю	101118	Oct.17, 2	2022	Oct.16, 2023
				Softwar	е				
Description		N	/lanuf	acturer		Nam	ne		Version
For R&S TS 8997 Test	Syster	n Roh	nde &	Schwa	Z	EMC	32		10.60.10
Tonsend RF Test System									
Equipment	Manu	facturer	Mod	del No.	S	Serial No. Last C		Cal.	Due. Date
Wideband Radio Communication Tester	R		СМ	IW500		155523 Oct.17,		2022	Oct.16, 2023
Wireless Connectivity Tester	R	:&S	CM	IW270	120	1.0002N75- 102	Sep.28,	2022	Sep.27, 2023
PXA Signal Analyzer	Key	/sight	N9	030A	MY	′55410512	Oct.17,	2022	Oct.16, 2023
MXG Vector Signal Generator	Key	/sight	N5	182B	MY	′56200284	Oct.17,	2022	Oct.16, 2023
MXG Vector Signal Generator	Key	/sight	N5	172B	MY	′56200301	Oct.17,	2022	Oct.16, 2023
DC power supply	Key	eysight E364		642A	MY	′55159130	Oct.17,	2022	Oct.16, 2023
Attenuator	Ag	jilent	8495B 28		2814a12853 Oct.18,		2022	Oct.17, 2023	
				Softwar	е				
Description	N	Manufacturer Name					Version		
Tonsend SRD Test Syst	tem	Tonsend JS1120-3 RF Test System				2	.6.77.0518		



Radiated Emissions Manufacturer Equipment Model No. Serial No. Last Cal. Due Date MXE EMI KESIGHT N9038A MY56400036 Oct.17, 2022 Oct.16, 2023 Receiver Hybrid Loa TDK HLP-3003C 130959 Aug.02, 2021 Aug.01, 2024 Periodic Antenna Preamplifier HP 8447D 2944A09099 Oct.17, 2022 Oct.16, 2023 EMI Measurement R&S ESR26 101377 Oct.17, 2022 Oct.16, 2023 Receiver **TDK** July 20, 2021 July 19, 2024 Horn Antenna HRN-0118 130940 TRS-305-Oct.17, 2022 Preamplifier TDK PA-02-0118 Oct.16, 2023 00067 Schwarzbeck 697 Horn Antenna BBHA9170 July 20, 2021 July 19, 2024 TRS-307-Preamplifier TDK PA-02-2 Oct.17, 2022 Oct.16, 2023 00003 TRS-308-Preamplifier TDK PA-02-3 Oct.17, 2022 Oct.16, 2023 00002 Loop antenna Schwarzbeck 1519B 80000 Dec.14, 2021 Dec.13, 2024 PA-02-001-TRS-302-**TDK** Oct.17, 2022 Preamplifier Oct.16, 2023 3000 00050 ZX60-83LN-Preamplifier Mini-Circuits SUP01202035 Oct.17, 2022 Oct.16, 2023 S+ WHKX10-Wainwright Highpass Filter 5850-6500-4 / / 1800-40SS WRCJV12-5695-5725-Band Reject Wainwright 4 / / Filter 5850-5880-**40SS** WRCJV20-Band Reject 5120-5150-Wainwright 2 / Filter 5350-5380-**60SS** WRCJV20-**Band Reject** 5440-5470-/ Wainwright 1 Filter 5725-5755-**60SS** Software Description Manufacturer Version Name Test Software for Radiated Emissions **EZ-EMC** Ver. UL-3A1 **Farad**



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7. ANTENNA PORT TEST RESULTS

7.1. ON TIME AND DUTY CYCLE

LIMITS

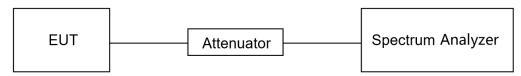
None; for reporting purposes only.

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	25.1 °C	Relative Humidity	51.2%
Atmosphere Pressure	101 kPa	Test Voltage	DC 12 V

TEST RESULTS

Please refer to section "Test Data" - Appendix G



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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 (For FCC) 5470 ~ 5600 (For ISED) 5650 ~ 5725 (For ISED)	
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 (For ISED)	

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 analyzer 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

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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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

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

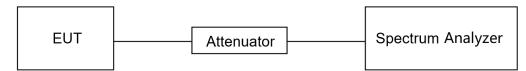
6 dB BW: 16.44 MHz

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	25.1 °C	Relative Humidity	51.2%
Atmosphere Pressure	101 kPa	Test Voltage	DC 12 V

TEST RESULTS

Please refer to section "Test Data" - Appendix A&B&C



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7.3. CONDUCTED OUTPUT POWER

LIMITS

CFR 47 FCC Part15, Subpart E		
Test Item	Limit	Frequency Range (MHz)
Conducted	☐ Outdoor Access Point: 1 W (30 dBm) ☐ Indoor Access Point: 1 W (30 dBm) ☐ Fixed Point-To-Point Access Points: 1 W (30 dBm) ☐ Client Devices: 250 mW (24 dBm)	5150 ~ 5250
I I OWCI I	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-1 (trace averaging with the EUT transmitting at full power throughout each sweep):

- (i) Set span to encompass the entire emission bandwidth (EBW) (or, alternatively, the entire 99% occupied bandwidth) of the signal.
- (ii) Set RBW = 1 MHz.
- (iii) Set VBW ≥ 3 MHz.
- (iv) Number of points in sweep $\ge 2 \times \text{span} / \text{RBW}$. (This ensures that bin-to-bin spacing is $\le \text{RBW}/2$, so that narrowband signals are not lost between frequency bins.)
- (v) Sweep time = auto.
- (vi) Detector = power averaging (rms), if available. Otherwise, use sample detector mode.
- (vii) If transmit duty cycle < 98 %, use a video trigger with the trigger level set to enable triggering only on full power pulses. Transmitter must operate at maximum power control level for the entire duration of every sweep. If the EUT transmits continuously (i.e., with no off intervals) or at duty cycle \geq 98 %, and if each transmission is entirely at the maximum power control level, then the trigger shall be set to "free run."
- (viii) Trace average at least 100 traces in power averaging (rms) mode.
- (ix) Compute power by integrating the spectrum across the EBW (or, alternatively, the entire 99% occupied bandwidth) of the signal using the instrument's band power measurement function with band limits set equal to the EBW (or occupied bandwidth) band edges. If the instrument does not have a band power function, sum the spectrum levels (in power units) at 1 MHz intervals extending across the EBW (or, alternatively, the entire 99% occupied bandwidth) of the spectrum.

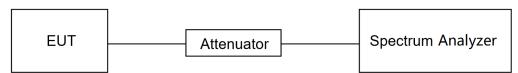


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Method PM (Measurement using an RF average power meter):

- (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 %).

TEST SETUP



TEST ENVIRONMENT

Temperature	25.1 °C	Relative Humidity	51.2%
Atmosphere Pressure	101 kPa	Test Voltage	DC 12 V

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
Delisity	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 analyzer and use the following settings:

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

of Civil 1, Civil 27 talk	
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

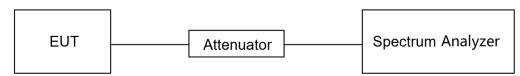


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Allow trace to fully stabilize and Use the peak search function on the instrument to find the peak of the spectrum and record its value.

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	25.1 °C	Relative Humidity	51.2%
Atmosphere Pressure	101 kPa	Test Voltage	DC 12 V

TEST RESULTS

Please refer to section "Test Data" - Appendix E



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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 -30 °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 analyzer 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

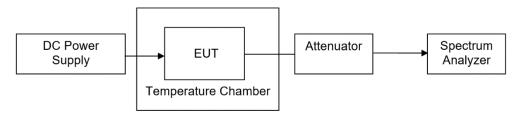
- 4. While maintaining a constant temperature inside the environmental chamber, turn the EUT on and record the operating frequency at startup, and at 2 minutes, 5minutes, and 10 minutes after the EUT is energized.
- 5. Allow the trace to stabilize, find the peak value of the power envelope and record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

TEST ENVIRONMENT

	Normal Test Conditions	Extreme Test Conditions	
Relative Humidity	20 % - 75 %	/	
Atmospheric Pressure	100 kPa ~102 kPa	/	
Temperature	T _N (Normal Temperature):	T _L (Low Temperature): 0 °C	
	25.1 °C	T _H (High Temperature): 40 °C	
Cupply Voltage	V _N (Normal Voltage): DC 12 V	V _L (Low Voltage): DC 10.2 V	
Supply Voltage	V _N (Normal Voltage). DC 12 V	V _H (High Voltage): DC 13.8 V	



TEST SETUP



TEST ENVIRONMENT

Temperature	25.1 °C	Relative Humidity	51.2%
Atmosphere Pressure	101 kPa	Test Voltage	DC 12 V

TEST RESULTS

Please refer to section "Test Data" - Appendix F



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8. RADIATED TEST RESULTS

LIMITS

Refer to CFR 47 FCC §15.205, §15.209 and §15.407 (b). 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	Field Strength Limit	Field Strength Limit (m) at 3 m (dBuV/m) at 3 m				
(MHz)	(uV/m) at 3 m					
		Quasi-Peak				
30 - 88	100	40				
88 - 216	150	43.5				
216 - 960	200	46				
Above 960	500	54				
Abovo 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				

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
¹ 0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	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	(²)
13.36-13.41			

Note: 1 Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz. ²Above 38.6c



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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)						
Frequency Range	EIRP Limit	Field Strength Limit				
(MHz)	EIRF LIIIIIL	(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.



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TEST PROCEDURE

Below 30 MHz

The setting of the spectrum analyzer

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 remeasured. 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 converted to electric field strength levels (as reported in the table) using the free space impedance of 377Ω . 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 analyzer

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.



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Above 1 GHz

The setting of the spectrum analyzer

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.



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For Restricted Bandedge:

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. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.
- 7. Both 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 (9 kHz ~ 30 MHz):

Note:

- 1. Measurement = Reading 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. 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 (30 MHz ~ 1 GHz):

- 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. All modes, channels and antennas have been tested, only the worst data was recorded in the report.

For Radiate Spurious Emission (1 GHz ~ 7 GHz):

- 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.



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For Radiate Spurious Emission (7 GHz ~ 18 GHz):

Note:

- 1. Peak Result = 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 (18 GHz ~ 26 GHz):

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.

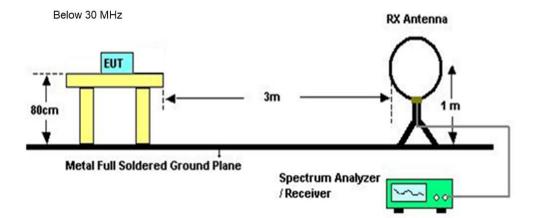
For Radiate Spurious emission (26 GHz ~ 40 GHz):

Note

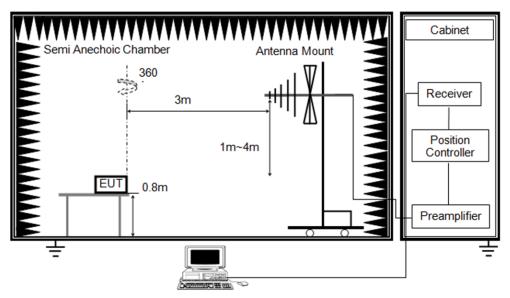
- 1. Measurement = Reading Level + Correct Factor.
- 2. If the peak values are less than the average limit of 54 dBuV/m, the average result is deemed to comply with average limit.
- 3. Peak: Peak detector.
- 4. All modes, channels and antennas have been tested, only the worst data was recorded in the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



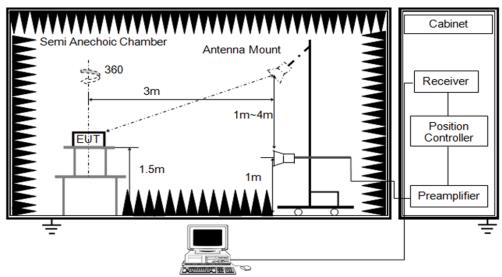
TEST SETUP



Below 1 GHz and above 30 MHz



Above 1 GHz





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TEST ENVIRONMENT

Temperature	25.2 ℃	Relative Humidity	67%
Atmosphere Pressure	101kPa	Test Voltage	

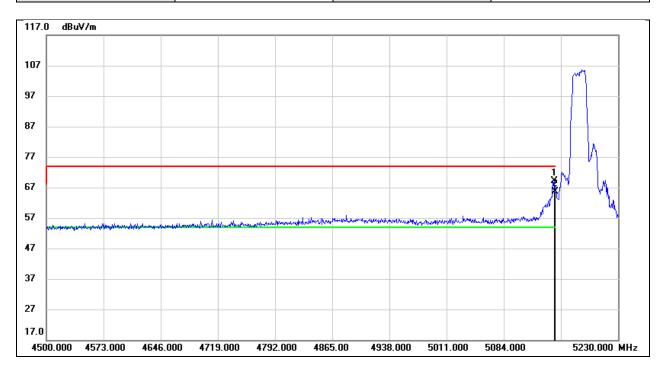
TEST RESULTS



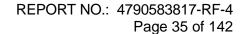
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8.1. RESTRICTED BANDEDGE

Test Mode:	802.11a 20 Peak	Channel:	5180 MHz
Polarity:	Vertical	Test Voltage:	DC 12 V

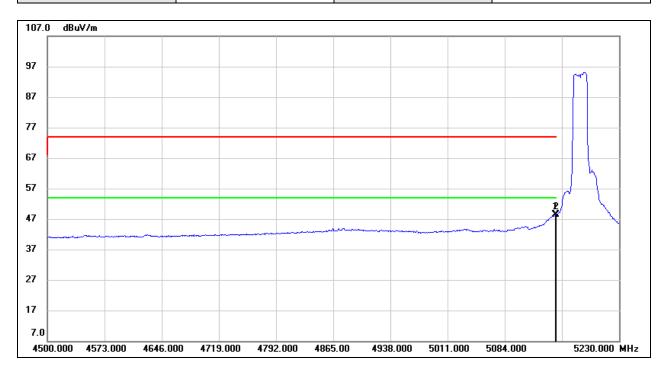


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5148.240	28.82	40.28	69.10	74.00	-4.90	peak
2	5150.000	25.43	40.27	65.70	74.00	-8.30	peak





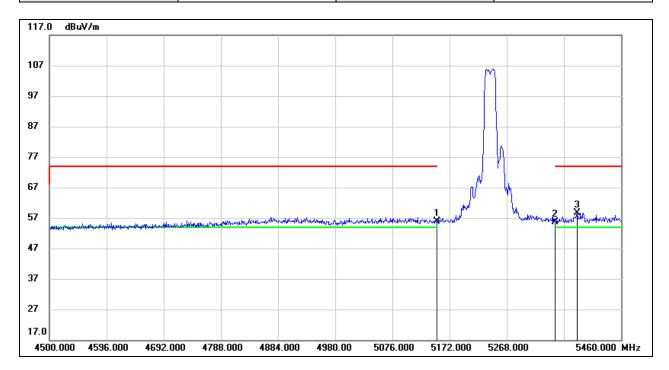
Test Mode: 802.11a 20 Average Channel: 5180 MHz
Polarity: Vertical Test Voltage: DC 12 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5148.240	8.08	40.28	48.36	54.00	-5.64	AVG
2	5150.000	8.12	40.27	48.39	54.00	-5.61	AVG



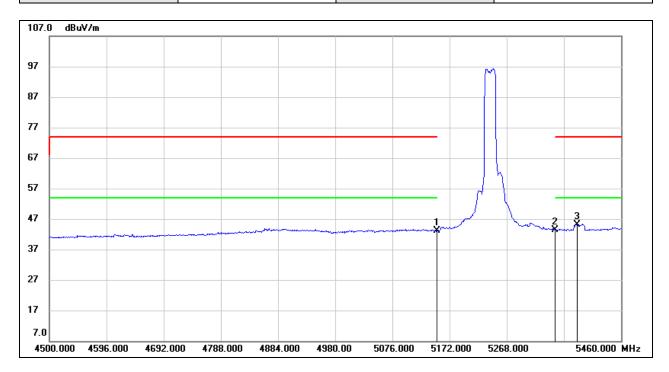
Test Mode:	802.11a 20 Peak	Channel:	5240 MHz
Polarity:	Vertical	Test Voltage:	DC 12 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5150.000	15.54	40.27	55.81	74.00	-18.19	peak
2	5350.000	15.05	40.49	55.54	74.00	-18.46	peak
3	5386.080	18.22	40.53	58.75	74.00	-15.25	peak



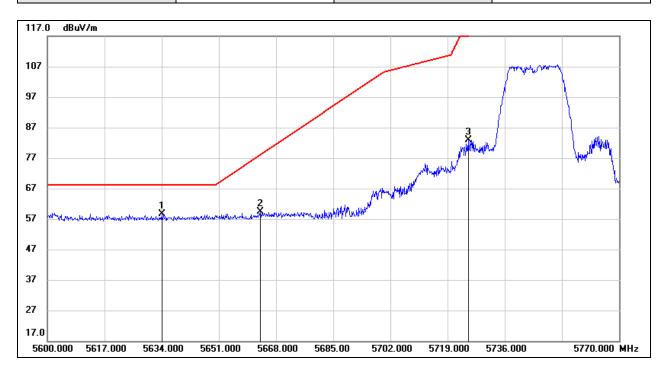
Test Mode:	802.11a 20 Average	Channel:	5240 MHz
Polarity:	Vertical	Test Voltage:	DC 12 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5150.000	2.76	40.27	43.03	54.00	-10.97	AVG
2	5350.000	2.84	40.49	43.33	54.00	-10.67	AVG
3	5386.080	4.53	40.53	45.06	54.00	-8.94	AVG



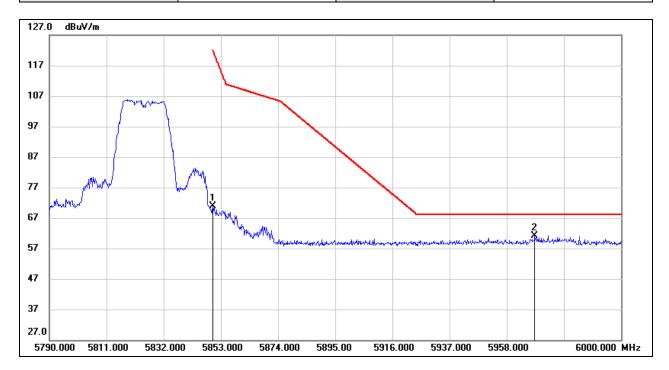
Test Mode:	802.11a 20 Peak	Channel:	5745 MHz
Polarity:	Vertical	Test Voltage:	DC 12 V



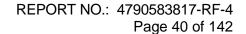
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5634.000	17.68	41.02	58.70	68.20	-9.50	peak
2	5663.410	18.41	41.09	59.50	78.16	-18.66	peak
3	5725.000	41.61	41.27	82.88	122.20	-39.32	peak



Test Mode:	802.11a 20 Peak	Channel:	5825 MHz
Polarity:	Vertical	Test Voltage:	DC 12 V

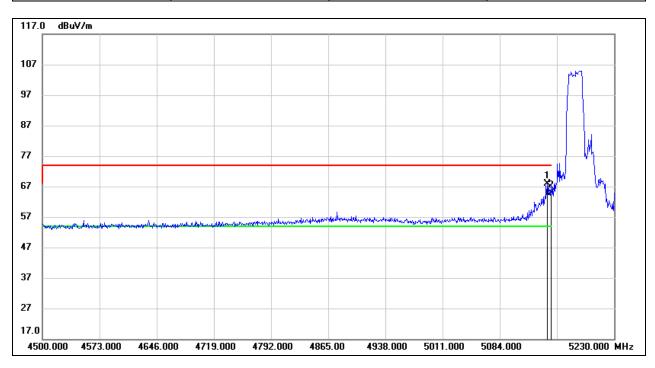


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5850.000	29.31	41.60	70.91	122.20	-51.29	peak
2	5968.290	19.15	41.92	61.07	68.20	-7.13	peak





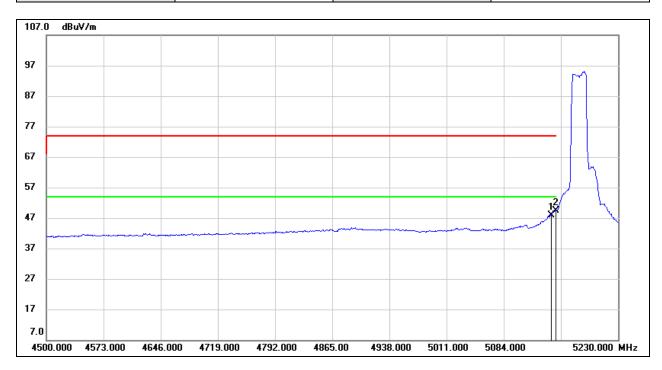
Test Mode: 802.11n HT20 Peak Channel: 5180 MHz
Polarity: Vertical Test Voltage: DC 12 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5144.590	27.70	40.27	67.97	74.00	-6.03	peak
2	5150.000	24.65	40.27	64.92	74.00	-9.08	peak



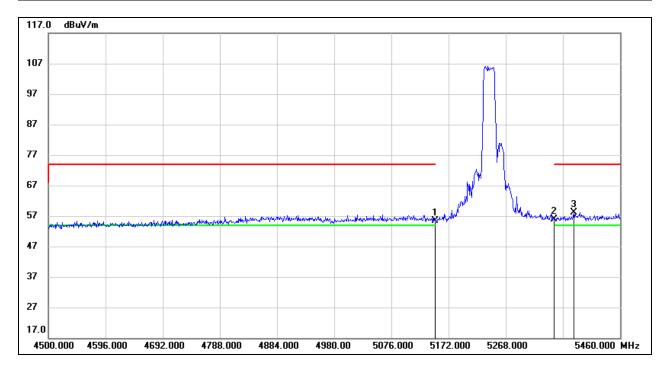
Test Mode:	802.11n HT20 Average	Channel:	5180 MHz
Polarity:	Vertical	Test Voltage:	DC 12 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5144.590	7.71	40.27	47.98	54.00	-6.02	AVG
2	5150.000	9.08	40.27	49.35	54.00	-4.65	AVG



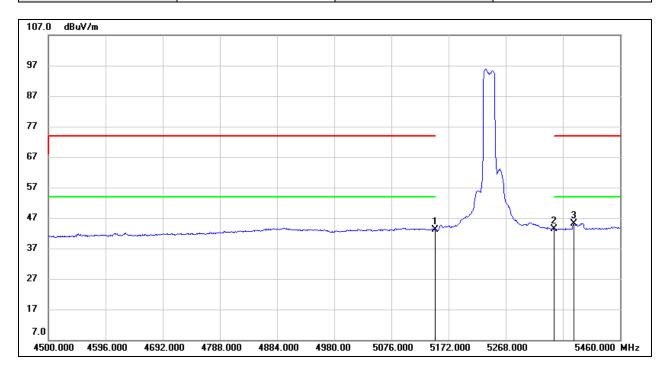
Test Mode:	802.11n HT20 Peak	Channel:	5240 MHz
Polarity:	Vertical	Test Voltage:	DC 12 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5150.000	15.03	40.27	55.30	74.00	-18.70	peak
2	5350.000	15.37	40.49	55.86	74.00	-18.14	peak
3	5382.240	17.53	40.53	58.06	74.00	-15.94	peak



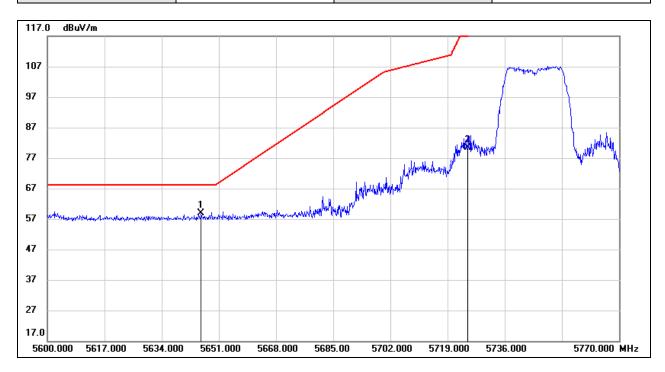
Test Mode:	802.11n HT20 Average	Channel:	5240 MHz
Polarity:	Vertical	Test Voltage:	DC 12 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5150.000	2.91	40.27	43.18	54.00	-10.82	AVG
2	5350.000	2.89	40.49	43.38	54.00	-10.62	AVG
3	5382.240	4.63	40.53	45.16	54.00	-8.84	AVG



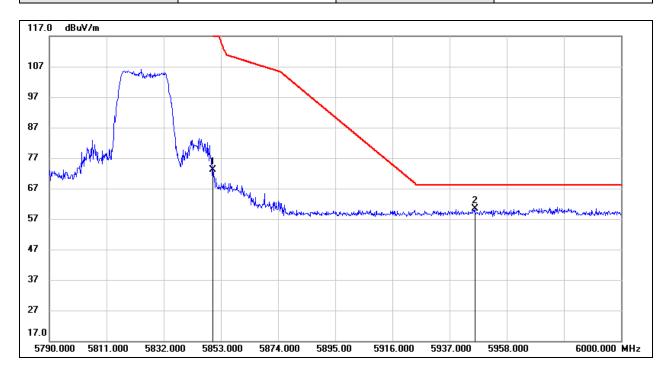
Test Mode:	802.11n HT20 Peak	Channel:	5745 MHz
Polarity:	Vertical	Test Voltage:	DC 12 V



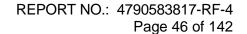
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5645.730	17.75	41.05	58.80	68.20	-9.40	peak
2	5725.000	39.03	41.27	80.30	122.20	-41.90	peak



Test Mode:	802.11n HT20 Peak	Channel:	5825 MHz
Polarity:	Vertical	Test Voltage:	DC 12 V

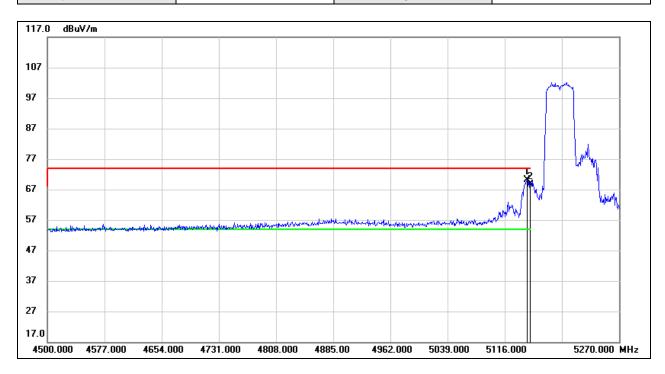


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5850.000	31.44	41.60	73.04	122.20	-49.16	peak
2	5946.240	18.45	41.86	60.31	68.20	-7.89	peak

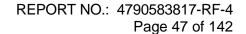




Test Mode: 802.11n HT40 Peak Channel: 5190 MHz
Polarity: Vertical Test Voltage: DC 12 V

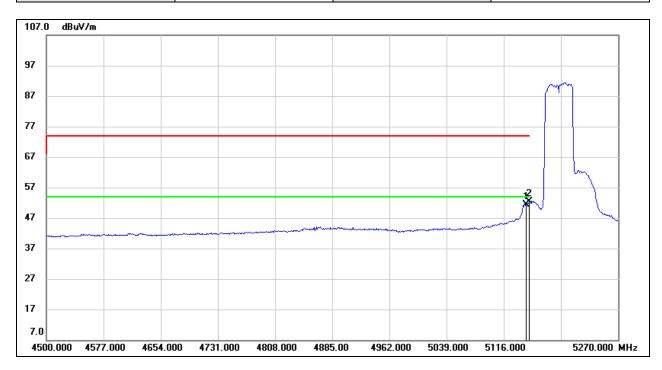


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5146.030	29.81	40.27	70.08	74.00	-3.92	peak
2	5150.000	28.29	40.27	68.56	74.00	-5.44	peak





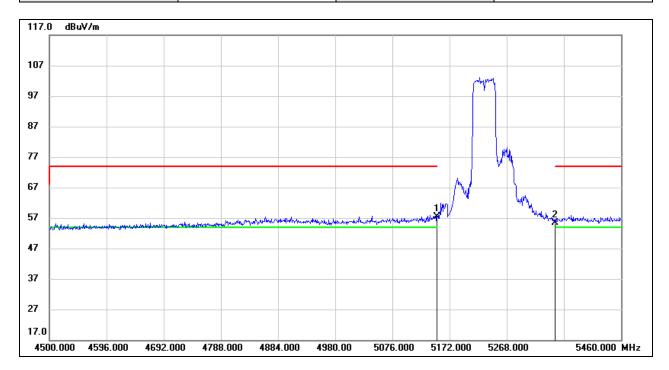
Test Mode: 802.11n HT40 Average Channel: 5190 MHz
Polarity: Vertical Test Voltage: DC 12 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5146.030	11.15	40.27	51.42	54.00	-2.58	AVG
2	5150.000	12.12	40.27	52.39	54.00	-1.61	AVG



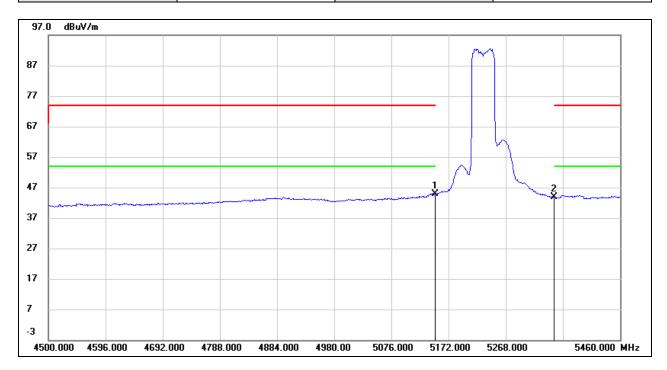
Test Mode:	802.11n HT40 Peak	Channel:	5230 MHz
Polarity:	Vertical	Test Voltage:	DC 12 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5150.000	17.04	40.27	57.31	74.00	-16.69	peak
2	5350.000	14.79	40.49	55.28	74.00	-18.72	peak



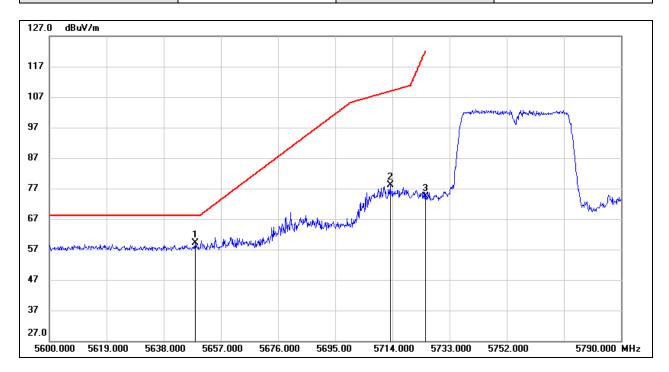
Test Mode:	802.11n HT40 Average	Channel:	5230 MHz
Polarity:	Vertical	Test Voltage:	DC 12 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5150.000	4.50	40.27	44.77	54.00	-9.23	AVG
2	5350.000	3.34	40.49	43.83	54.00	-10.17	AVG



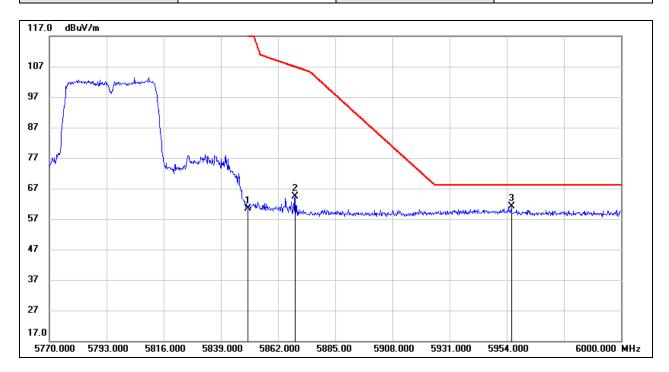
Test Mode:	802.11n HT40 Peak	Channel:	5755 MHz
Polarity:	Vertical	Test Voltage:	DC 12 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5648.450	17.97	41.06	59.03	68.20	-9.17	peak
2	5713.240	36.84	41.23	78.07	108.91	-30.84	peak
3	5725.000	33.11	41.27	74.38	122.20	-47.82	peak



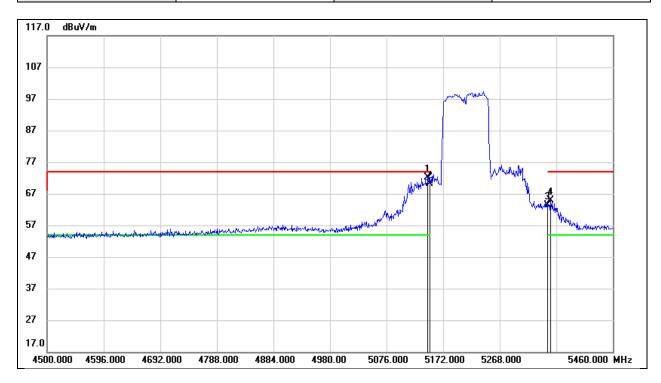
Test Mode:	802.11n HT40 Peak	Channel:	5795 MHz
Polarity:	Vertical	Test Voltage:	DC 12 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5850.000	18.73	41.60	60.33	122.20	-61.87	peak
2	5868.900	22.65	41.65	64.30	106.91	-42.61	peak
3	5955.840	19.34	41.89	61.23	68.20	-6.97	peak



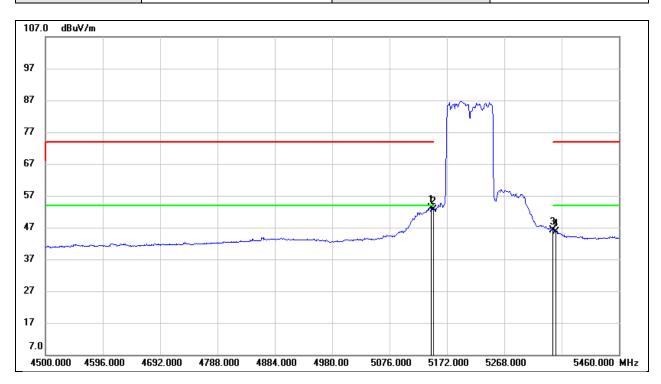
Test Mode:	802.11ac VHT80 Peak	Channel:	5210 MHz
Polarity:	Vertical	Test Voltage:	DC 12 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5146.080	31.93	40.27	72.20	74.00	-1.80	peak
2	5150.000	29.75	40.27	70.02	74.00	-3.98	peak
3	5350.000	22.82	40.49	63.31	74.00	-10.69	peak
4	5354.400	24.46	40.50	64.96	74.00	-9.04	peak



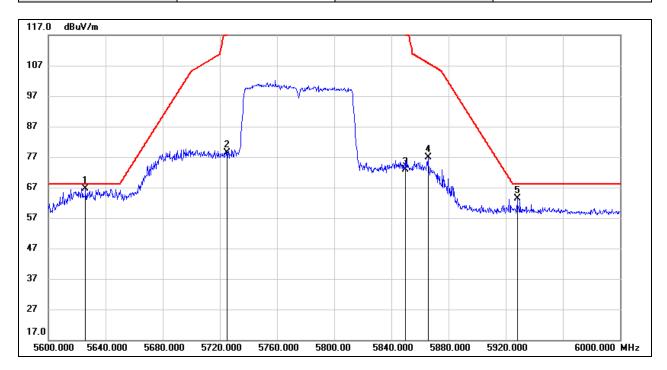
Test Mode:	802.11ac VHT80 Average	Channel:	5210 MHz
Polarity:	Vertical	Test Voltage:	DC 12 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5146.080	12.80	40.27	53.07	54.00	-0.93	AVG
2	5150.000	12.29	40.27	52.56	54.00	-1.44	AVG
3	5350.000	5.52	40.49	46.01	54.00	-7.99	AVG
4	5354.400	5.20	40.50	45.70	54.00	-8.30	AVG



Test Mode:	802.11ac VHT80 Peak	Channel:	5775 MHz
Polarity:	Vertical	Test Voltage:	DC 12 V

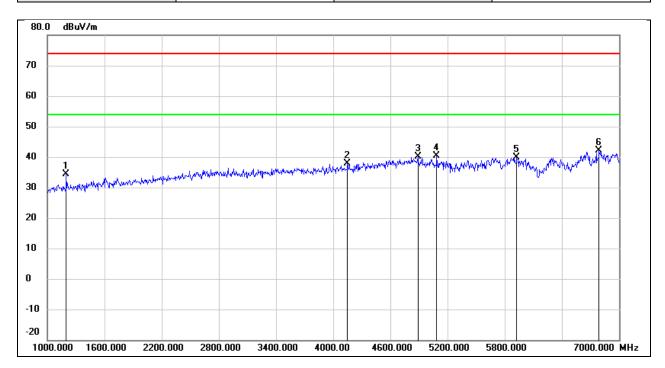


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5626.000	25.60	41.00	66.60	68.20	-1.60	peak
2	5725.000	37.17	41.27	78.44	122.20	-43.76	peak
3	5850.000	31.24	41.60	72.84	122.20	-49.36	peak
4	5865.600	35.29	41.64	76.93	107.83	-30.90	peak
5	5928.000	21.60	41.81	63.41	68.20	-4.79	peak

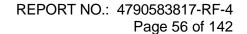
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8.2. SPURIOUS EMISSIONS (1 GHZ ~ 7 GHZ)

Test Mode:	802.11a 20	Channel:	5180 MHz
Polarity:	Horizontal	Test Voltage:	DC 12 V



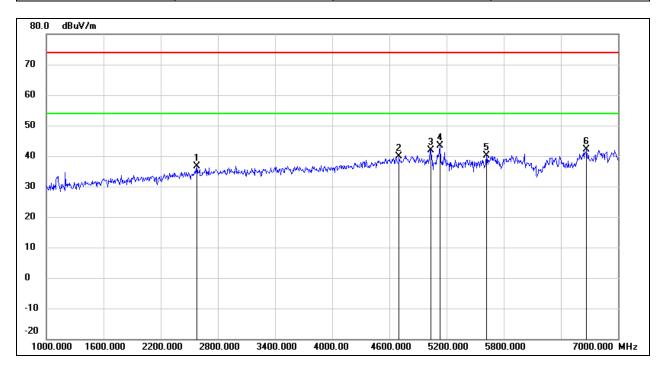
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1198.000	48.39	-14.11	34.28	74.00	-39.72	peak
2	4150.000	41.53	-3.77	37.76	74.00	-36.24	peak
3	4888.000	40.61	-0.60	40.01	74.00	-33.99	peak
4	5086.000	40.37	-0.05	40.32	74.00	-33.68	peak
5	5926.000	38.26	1.64	39.90	74.00	-34.10	peak
6	6790.000	36.97	5.15	42.12	74.00	-31.88	peak



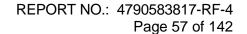


 Test Mode:
 802.11a 20
 Channel:
 5180 MHz

 Polarity:
 Vertical
 Test Voltage:
 DC 12 V



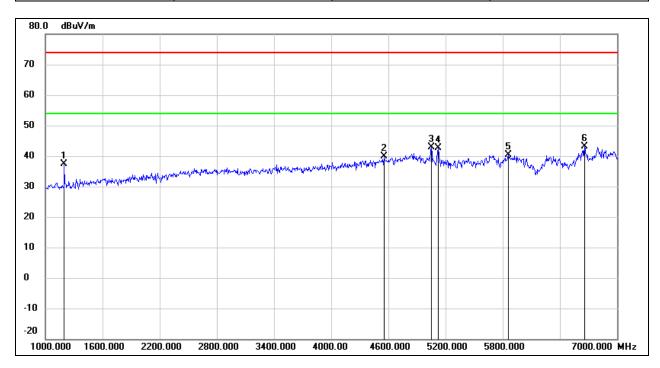
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2578.000	44.87	-8.26	36.61	74.00	-37.39	peak
2	4702.000	41.10	-1.34	39.76	74.00	-34.24	peak
3	5032.000	41.96	-0.12	41.84	74.00	-32.16	peak
4	5134.000	43.50	0.00	43.50	74.00	-30.50	peak
5	5620.000	39.30	0.76	40.06	74.00	-33.94	peak
6	6670.000	37.55	4.57	42.12	74.00	-31.88	peak



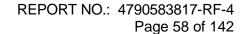


Test Mode: 802.11a 20 Channel: 5200 MHz

Polarity: Horizontal Test Voltage: DC 12 V



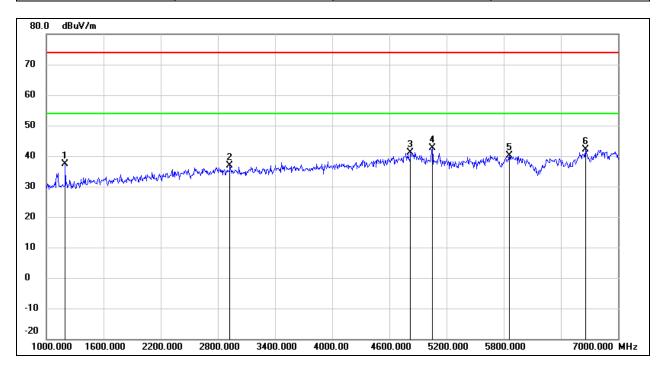
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1198.000	51.58	-14.11	37.47	74.00	-36.53	peak
2	4552.000	41.91	-1.93	39.98	74.00	-34.02	peak
3	5050.000	42.90	-0.09	42.81	74.00	-31.19	peak
4	5122.000	42.54	-0.02	42.52	74.00	-31.48	peak
5	5860.000	38.85	1.45	40.30	74.00	-33.70	peak
6	6658.000	38.69	4.49	43.18	74.00	-30.82	peak





 Test Mode:
 802.11a 20
 Channel:
 5200 MHz

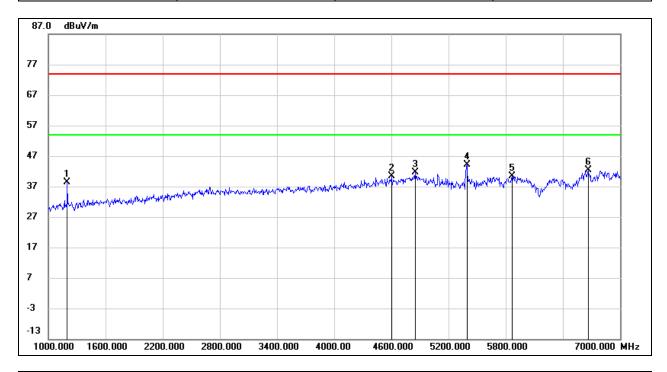
 Polarity:
 Vertical
 Test Voltage:
 DC 12 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1198.000	51.47	-14.11	37.36	74.00	-36.64	peak
2	2926.000	44.13	-7.20	36.93	74.00	-37.07	peak
3	4822.000	42.07	-0.85	41.22	74.00	-32.78	peak
4	5050.000	42.81	-0.09	42.72	74.00	-31.28	peak
5	5860.000	38.69	1.45	40.14	74.00	-33.86	peak
6	6658.000	37.56	4.49	42.05	74.00	-31.95	peak



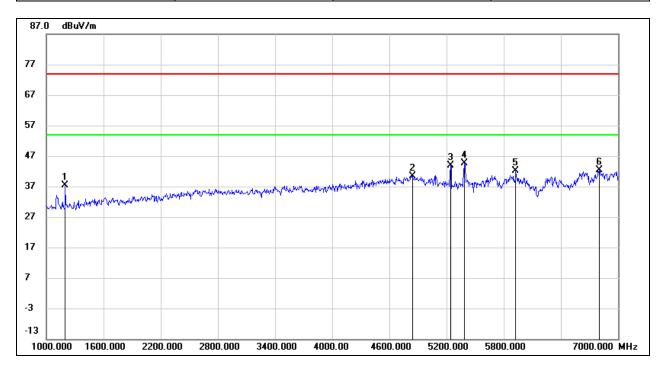
Test Mode:	802.11a 20	Channel:	5240 MHz
Polarity:	Horizontal	Test Voltage:	DC 12 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1198.000	52.39	-14.11	38.28	74.00	-35.72	peak
2	4600.000	42.08	-1.74	40.34	74.00	-33.66	peak
3	4852.000	42.30	-0.74	41.56	74.00	-32.44	peak
4	5392.000	43.88	0.29	44.17	74.00	-29.83	peak
5	5866.000	39.00	1.47	40.47	74.00	-33.53	peak
6	6664.000	37.94	4.54	42.48	74.00	-31.52	peak



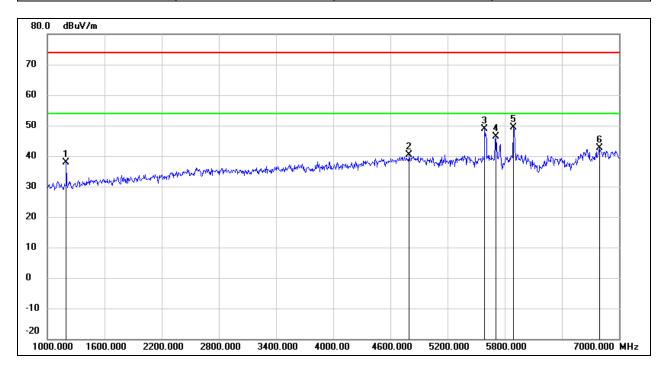
Test Mode:	802.11a 20	Channel:	5240 MHz
Polarity:	Vertical	Test Voltage:	DC 12 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1198.000	51.49	-14.11	37.38	74.00	-36.62	peak
2	4846.000	41.13	-0.77	40.36	74.00	-33.64	peak
3	5242.000	43.80	0.12	43.92	74.00	-30.08	peak
4	5386.000	44.27	0.29	44.56	74.00	-29.44	peak
5	5926.000	40.48	1.64	42.12	74.00	-31.88	peak
6	6802.000	37.20	5.21	42.41	74.00	-31.59	peak



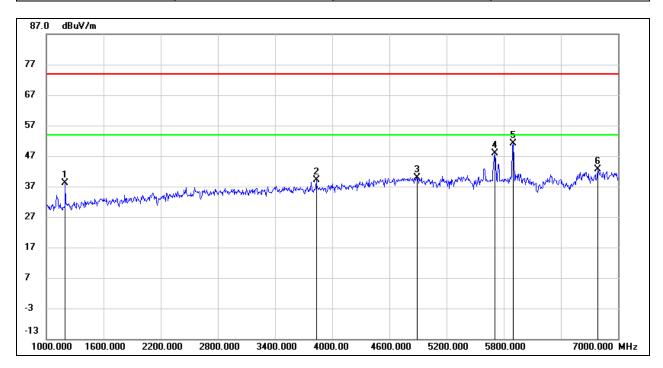
Test Mode:	802.11a 20	Channel:	5745 MHz
Polarity:	Horizontal	Test Voltage:	DC 12 V



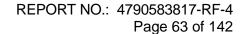
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1198.000	52.04	-14.11	37.93	74.00	-36.07	peak
2	4798.000	41.24	-0.95	40.29	74.00	-33.71	peak
3	5590.000	48.08	0.68	48.76	74.00	-25.24	peak
4	5704.000	45.43	1.00	46.43	74.00	-27.57	peak
5	5890.000	47.88	1.54	49.42	74.00	-24.58	peak
6	6796.000	37.39	5.19	42.58	74.00	-31.42	peak



Test Mode:	802.11a 20	Channel:	5745 MHz
Polarity:	Vertical	Test Voltage:	DC 12 V

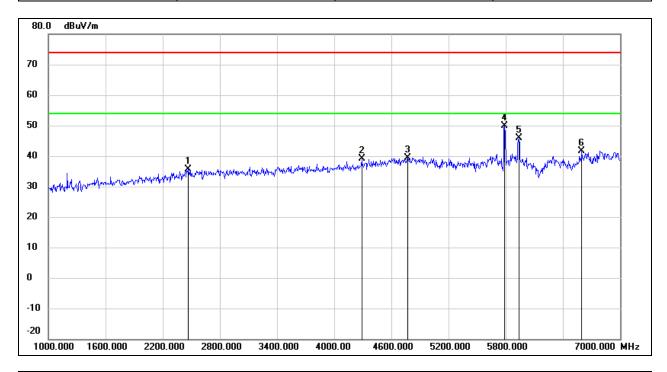


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1198.000	52.34	-14.11	38.23	74.00	-35.77	peak
2	3832.000	44.06	-4.94	39.12	74.00	-34.88	peak
3	4888.000	40.56	-0.60	39.96	74.00	-34.04	peak
4	5710.000	46.79	1.02	47.81	74.00	-26.19	peak
5	5896.000	49.45	1.56	51.01	74.00	-22.99	peak
6	6790.000	37.59	5.15	42.74	74.00	-31.26	peak

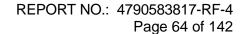




Test Mode:	802.11a 20	Channel:	5785 MHz
Polarity:	Horizontal	Test Voltage:	DC 12 V

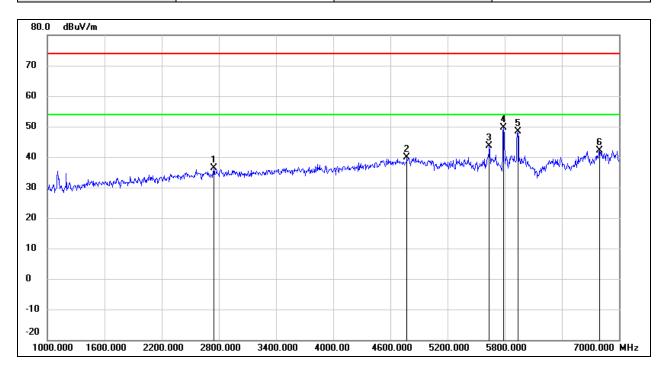


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2464.000	44.39	-8.68	35.71	74.00	-38.29	peak
2	4288.000	42.18	-3.13	39.05	74.00	-34.95	peak
3	4768.000	40.41	-1.07	39.34	74.00	-34.66	peak
4	5788.000	48.72	1.25	49.97	74.00	-24.03	peak
5	5938.000	44.13	1.67	45.80	74.00	-28.20	peak
6	6598.000	37.44	4.21	41.65	74.00	-32.35	peak

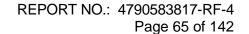




Test Mode: 802.11a 20 Channel: 5785 MHz
Polarity: Vertical Test Voltage: DC 12 V

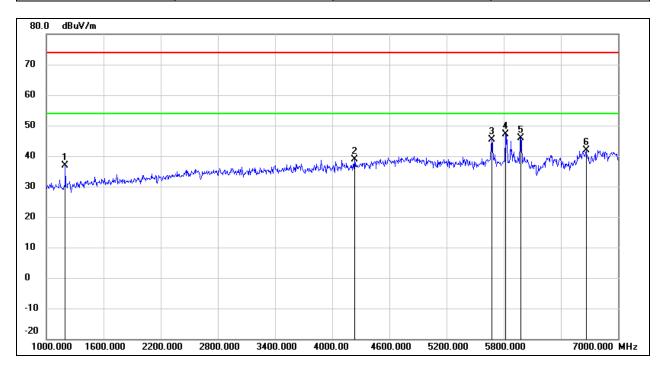


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2746.000	44.11	-7.75	36.36	74.00	-37.64	peak
2	4774.000	40.98	-1.05	39.93	74.00	-34.07	peak
3	5638.000	42.81	0.81	43.62	74.00	-30.38	peak
4	5788.000	48.35	1.25	49.60	74.00	-24.40	peak
5	5938.000	46.63	1.67	48.30	74.00	-25.70	peak
6	6796.000	36.91	5.19	42.10	74.00	-31.90	peak





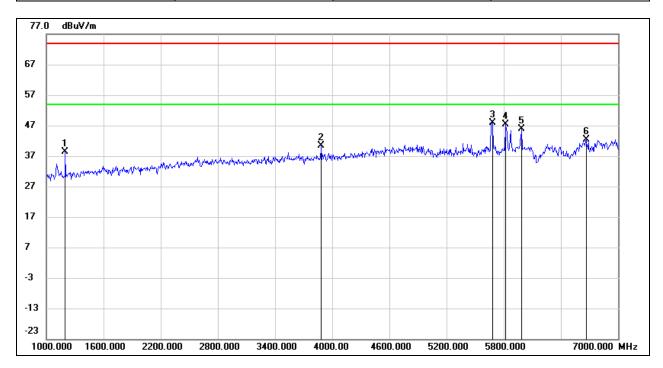
Test Mode: 802.11a 20 Channel: 5825 MHz
Polarity: Horizontal Test Voltage: DC 12 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1198.000	51.05	-14.11	36.94	74.00	-37.06	peak
2	4234.000	42.32	-3.39	38.93	74.00	-35.07	peak
3	5674.000	44.48	0.92	45.40	74.00	-28.60	peak
4	5818.000	45.88	1.33	47.21	74.00	-26.79	peak
5	5980.000	44.19	1.79	45.98	74.00	-28.02	peak
6	6664.000	37.37	4.54	41.91	74.00	-32.09	peak



Test Mode:	802.11a 20	Channel:	5825 MHz
Polarity:	Vertical	Test Voltage:	DC 12 V



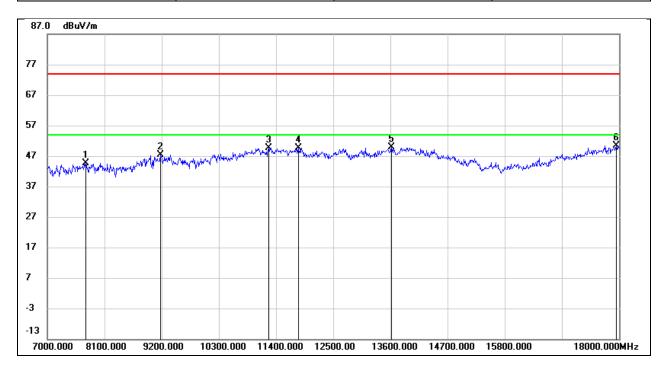
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1198.000	52.52	-14.11	38.41	74.00	-35.59	peak
2	3886.000	45.20	-4.79	40.41	74.00	-33.59	peak
3	5680.000	47.02	0.94	47.96	74.00	-26.04	peak
4	5818.000	46.04	1.33	47.37	74.00	-26.63	peak
5	5986.000	44.16	1.82	45.98	74.00	-28.02	peak
6	6664.000	37.82	4.54	42.36	74.00	-31.64	peak

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8.3. SPURIOUS EMISSIONS (7 GHZ ~ 18 GHZ)

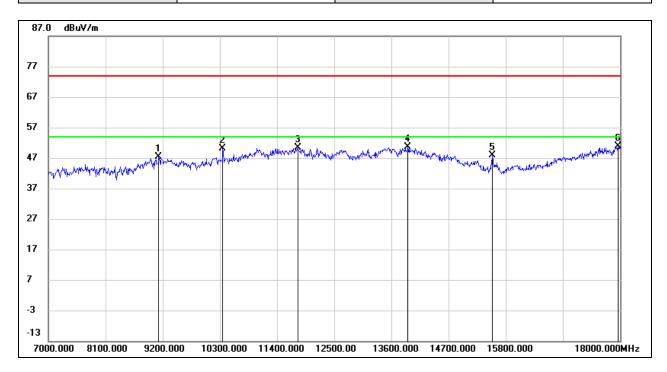
Test Mode:	802.11a 20	Channel:	5180 MHz
Polarity:	Horizontal	Test Voltage:	DC 12 V



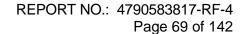
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	7737.000	38.04	6.66	44.70	74.00	-29.30	peak
2	9178.000	36.90	10.45	47.35	74.00	-26.65	peak
3	11257.000	33.75	15.78	49.53	74.00	-24.47	peak
4	11829.000	32.29	17.38	49.67	74.00	-24.33	peak
5	13622.000	28.89	20.95	49.84	74.00	-24.16	peak
6	17945.000	24.63	25.75	50.38	74.00	-23.62	peak



Test Mode:	802.11a 20	Channel:	5180 MHz
Polarity:	Vertical	Test Voltage:	DC 12 V



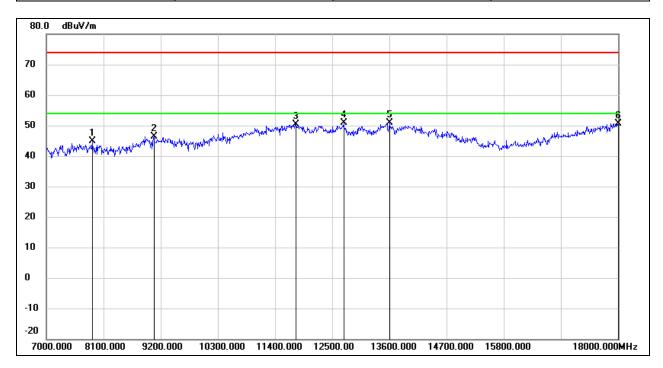
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	9123.000	36.84	10.42	47.26	74.00	-26.74	peak
2	10355.000	37.49	12.52	50.01	74.00	-23.99	peak
3	11796.000	33.16	17.32	50.48	74.00	-23.52	peak
4	13919.000	29.05	21.68	50.73	74.00	-23.27	peak
5	15547.000	31.11	16.73	47.84	74.00	-26.16	peak
6	17967.000	24.89	25.89	50.78	74.00	-23.22	peak





Test Mode: 802.11a 20 Channel: 5200 MHz

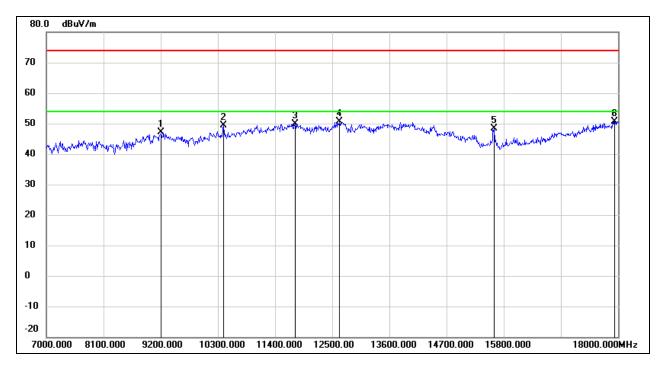
Polarity: Horizontal Test Voltage: DC 12 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	7880.000	38.34	6.54	44.88	74.00	-29.12	peak
2	9068.000	35.94	10.39	46.33	74.00	-27.67	peak
3	11796.000	33.17	17.32	50.49	74.00	-23.51	peak
4	12720.000	32.74	18.09	50.83	74.00	-23.17	peak
5	13600.000	29.93	20.89	50.82	74.00	-23.18	peak
6	18000.000	24.62	26.12	50.74	74.00	-23.26	peak



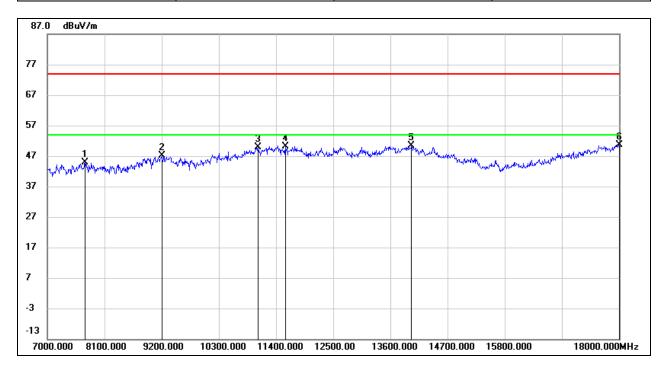
Test Mode:	802.11a 20	Channel:	5200 MHz
Polarity:	Vertical	Test Voltage:	DC 12 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	9211.000	36.62	10.47	47.09	74.00	-26.91	peak
2	10410.000	36.85	12.62	49.47	74.00	-24.53	peak
3	11785.000	32.59	17.30	49.89	74.00	-24.11	peak
4	12643.000	32.73	18.01	50.74	74.00	-23.26	peak
5	15613.000	31.51	16.76	48.27	74.00	-25.73	peak
6	17934.000	25.01	25.67	50.68	74.00	-23.32	peak



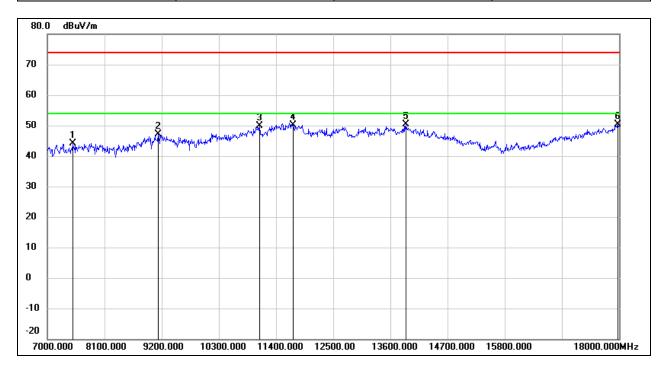
Test Mode:	802.11a 20	Channel:	5240 MHz
Polarity:	Horizontal	Test Voltage:	DC 12 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	7726.000	38.29	6.68	44.97	74.00	-29.03	peak
2	9200.000	36.58	10.46	47.04	74.00	-26.96	peak
3	11048.000	35.05	14.91	49.96	74.00	-24.04	peak
4	11576.000	33.32	16.91	50.23	74.00	-23.77	peak
5	14007.000	28.63	21.85	50.48	74.00	-23.52	peak
6	18000.000	24.43	26.12	50.55	74.00	-23.45	peak



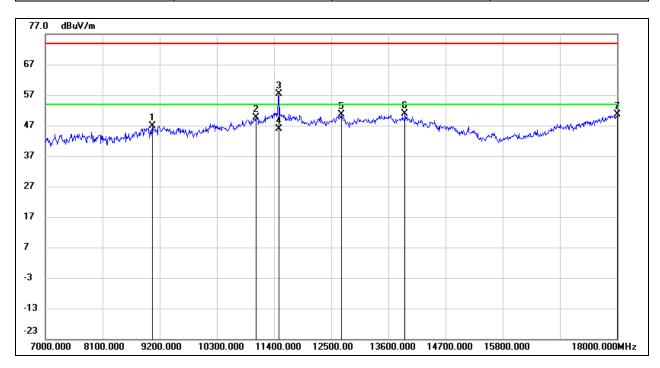
Test Mode:	802.11a 20	Channel:	5240 MHz
Polarity:	Vertical	Test Voltage:	DC 12 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	7484.000	37.30	6.87	44.17	74.00	-29.83	peak
2	9134.000	36.74	10.41	47.15	74.00	-26.85	peak
3	11081.000	34.73	15.05	49.78	74.00	-24.22	peak
4	11730.000	33.01	17.19	50.20	74.00	-23.80	peak
5	13897.000	28.76	21.62	50.38	74.00	-23.62	peak
6	17978.000	24.35	25.97	50.32	74.00	-23.68	peak



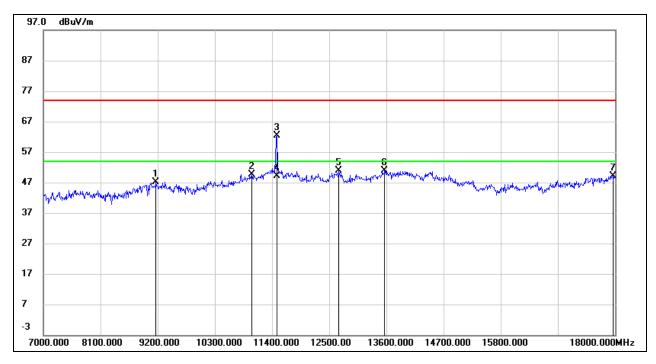
Test Mode:	802.11a 20	Channel:	5745 MHz
Polarity:	Horizontal	Test Voltage:	DC 12 V



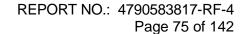
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	9057.000	36.52	10.38	46.90	74.00	-27.10	peak
2	11048.000	34.83	14.91	49.74	74.00	-24.26	peak
3	11488.000	40.67	16.72	57.39	74.00	-16.61	peak
4	11488.000	29.17	16.72	45.89	54.00	-8.11	AVG
5	12698.000	32.65	18.08	50.73	74.00	-23.27	peak
6	13919.000	29.27	21.68	50.95	74.00	-23.05	peak
7	18000.000	24.48	26.12	50.60	74.00	-23.40	peak



Test Mode:	802.11a 20	Channel:	5745 MHz
Polarity:	Vertical	Test Voltage:	DC 12 V

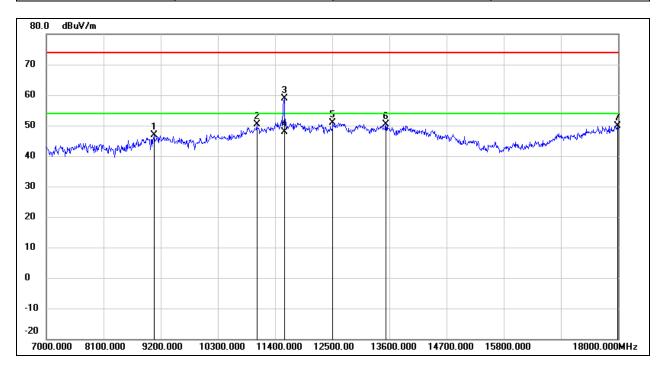


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	9167.000	36.74	10.45	47.19	74.00	-26.81	peak
2	11004.000	34.86	14.74	49.60	74.00	-24.40	peak
3	11488.000	45.62	16.72	62.34	74.00	-11.66	peak
4	11488.000	32.48	16.72	49.20	54.00	-4.80	AVG
5	12687.000	32.93	18.05	50.98	74.00	-23.02	peak
6	13567.000	30.09	20.80	50.89	74.00	-23.11	peak
7	17956.000	23.43	25.82	49.25	74.00	-24.75	peak





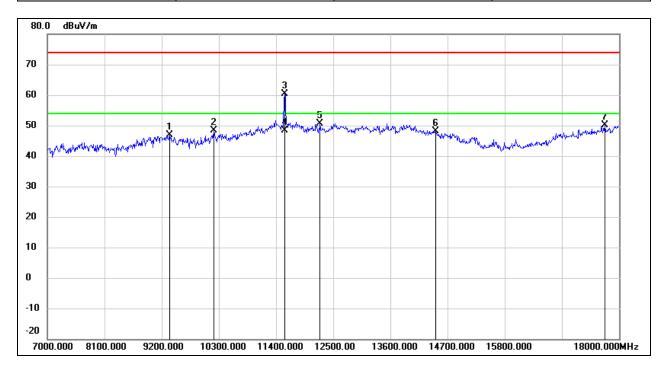
Test Mode:	802.11a 20	Channel:	5785 MHz
Polarity:	Horizontal	Test Voltage:	DC 12 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	9079.000	36.42	10.39	46.81	74.00	-27.19	peak
2	11048.000	35.37	14.91	50.28	74.00	-23.72	peak
3	11576.000	42.08	16.91	58.99	74.00	-15.01	peak
4	11576.000	30.86	16.91	47.77	54.00	-6.23	AVG
5	12511.000	33.15	17.84	50.99	74.00	-23.01	peak
6	13534.000	29.77	20.73	50.50	74.00	-23.50	peak
7	17989.000	23.89	26.04	49.93	74.00	-24.07	peak



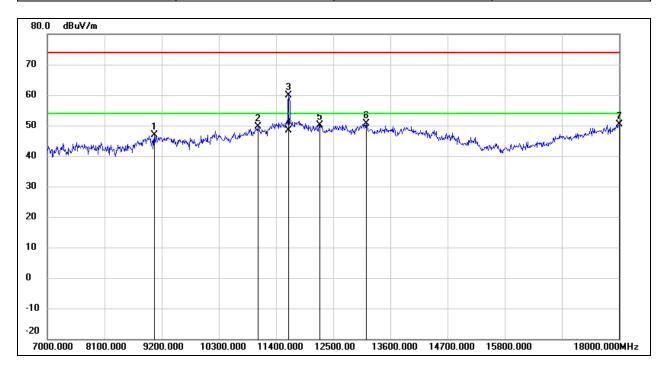
Test Mode:	802.11a 20	Channel:	5785 MHz
Polarity:	Vertical	Test Voltage:	DC 12 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	9354.000	36.35	10.56	46.91	74.00	-27.09	peak
2	10201.000	36.26	12.19	48.45	74.00	-25.55	peak
3	11565.000	43.43	16.89	60.32	74.00	-13.68	peak
4	11565.000	31.38	16.89	48.27	54.00	-5.73	AVG
5	12247.000	32.89	17.77	50.66	74.00	-23.34	peak
6	14469.000	28.19	19.91	48.10	74.00	-25.90	peak
7	17725.000	25.91	24.24	50.15	74.00	-23.85	peak



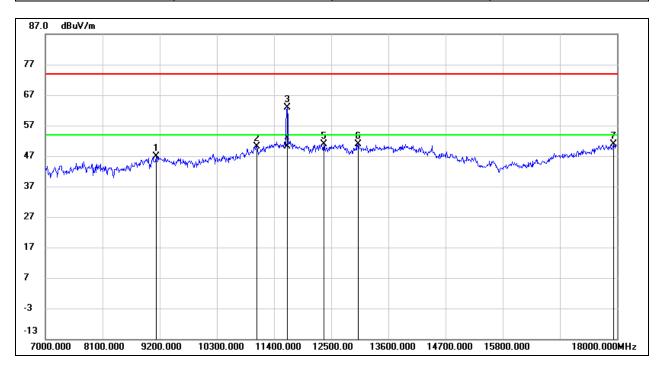
Test Mode:	802.11a 20	Channel:	5825 MHz
Polarity:	Horizontal	Test Voltage:	DC 12 V



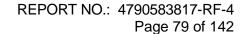
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	9057.000	36.46	10.38	46.84	74.00	-27.16	peak
2	11048.000	34.65	14.91	49.56	74.00	-24.44	peak
3	11642.000	42.97	17.03	60.00	74.00	-14.00	peak
4	11642.000	31.30	17.03	48.33	54.00	-5.67	AVG
5	12236.000	32.49	17.76	50.25	74.00	-23.75	peak
6	13138.000	31.62	19.05	50.67	74.00	-23.33	peak
7	18000.000	24.24	26.12	50.36	74.00	-23.64	peak



Test Mode:	802.11a 20	Channel:	5825 MHz
Polarity:	Vertical	Test Voltage:	DC 12 V

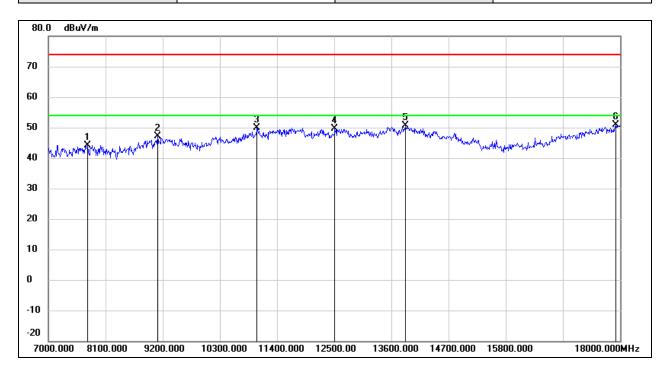


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	9134.000	36.57	10.41	46.98	74.00	-27.02	peak
2	11070.000	35.19	15.01	50.20	74.00	-23.80	peak
3	11653.000	45.75	17.05	62.80	74.00	-11.20	peak
4	11653.000	33.18	17.05	50.23	54.00	-3.77	AVG
5	12357.000	32.97	17.79	50.76	74.00	-23.24	peak
6	13017.000	32.27	18.53	50.80	74.00	-23.20	peak
7	17934.000	25.17	25.67	50.84	74.00	-23.16	peak

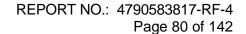




Test Mode:	802.11n HT20	Channel:	5180 MHz
Polarity:	Horizontal	Test Voltage:	DC 12 V

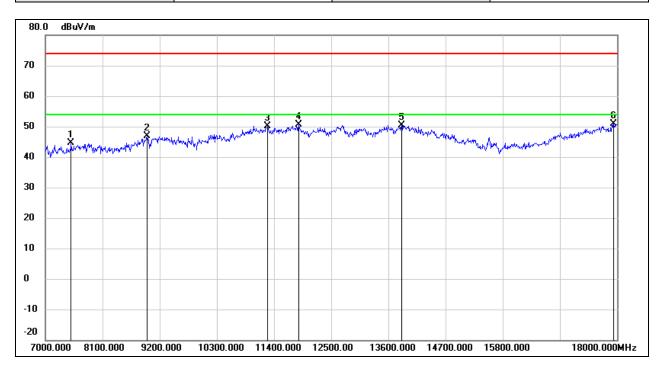


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	7759.000	37.56	6.64	44.20	74.00	-29.80	peak
2	9101.000	36.63	10.40	47.03	74.00	-26.97	peak
3	11015.000	35.21	14.79	50.00	74.00	-24.00	peak
4	12511.000	31.81	17.84	49.65	74.00	-24.35	peak
5	13875.000	29.09	21.57	50.66	74.00	-23.34	peak
6	17923.000	25.27	25.60	50.87	74.00	-23.13	peak





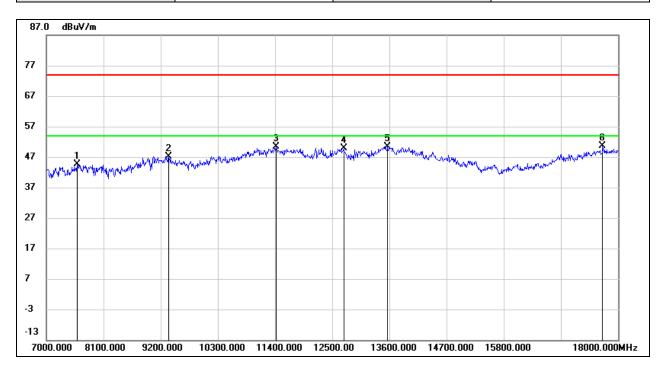
Test Mode:	802.11n HT20	Channel:	5180 MHz
Polarity:	Vertical	Test Voltage:	DC 12 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	7495.000	37.67	6.87	44.54	74.00	-29.46	peak
2	8958.000	36.86	10.05	46.91	74.00	-27.09	peak
3	11268.000	34.37	15.83	50.20	74.00	-23.80	peak
4	11873.000	33.10	17.46	50.56	74.00	-23.44	peak
5	13853.000	28.84	21.52	50.36	74.00	-23.64	peak
6	17934.000	25.18	25.67	50.85	74.00	-23.15	peak



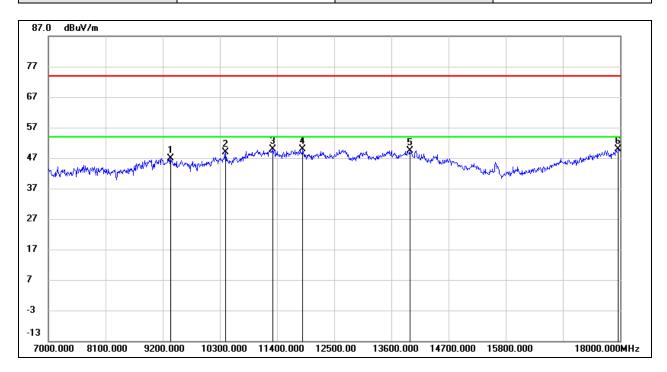
Test Mode:	802.11n HT20	Channel:	5200 MHz
Polarity:	Horizontal	Test Voltage:	DC 12 V



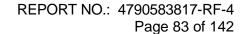
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	7594.000	37.76	6.79	44.55	74.00	-29.45	peak
2	9354.000	36.65	10.56	47.21	74.00	-26.79	peak
3	11422.000	33.99	16.46	50.45	74.00	-23.55	peak
4	12720.000	31.81	18.09	49.90	74.00	-24.10	peak
5	13567.000	29.59	20.80	50.39	74.00	-23.61	peak
6	17703.000	26.60	24.09	50.69	74.00	-23.31	peak



Test Mode:	802.11n HT20	Channel:	5200 MHz
Polarity:	Vertical	Test Voltage:	DC 12 V

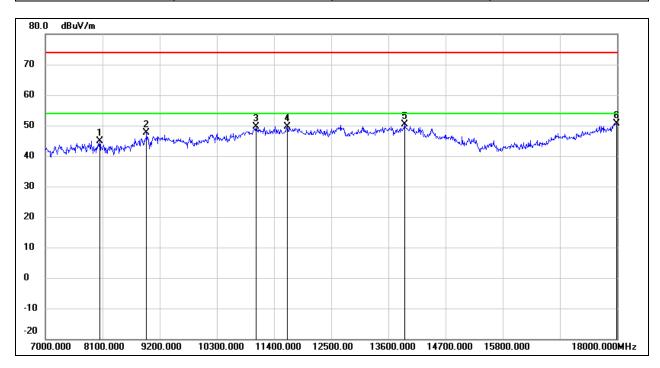


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	9354.000	36.22	10.56	46.78	74.00	-27.22	peak
2	10410.000	36.35	12.62	48.97	74.00	-25.03	peak
3	11323.000	33.71	16.05	49.76	74.00	-24.24	peak
4	11895.000	32.31	17.51	49.82	74.00	-24.18	peak
5	13952.000	27.67	21.76	49.43	74.00	-24.57	peak
6	17967.000	24.01	25.89	49.90	74.00	-24.10	peak





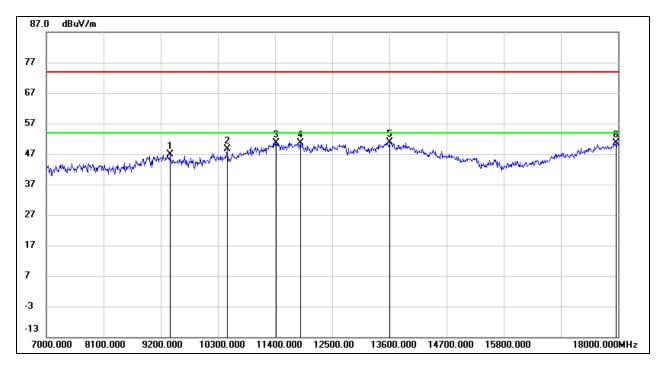
Test Mode: 802.11n HT20 Channel: 5240 MHz
Polarity: Horizontal Test Voltage: DC 12 V



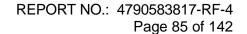
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	8045.000	38.50	6.47	44.97	74.00	-29.03	peak
2	8947.000	37.61	9.98	47.59	74.00	-26.41	peak
3	11048.000	34.64	14.91	49.55	74.00	-24.45	peak
4	11653.000	32.60	17.05	49.65	74.00	-24.35	peak
5	13908.000	28.64	21.66	50.30	74.00	-23.70	peak
6	17989.000	24.62	26.04	50.66	74.00	-23.34	peak



Test Mode:	802.11n HT20	Channel:	5240 MHz
Polarity:	Vertical	Test Voltage:	DC 12 V



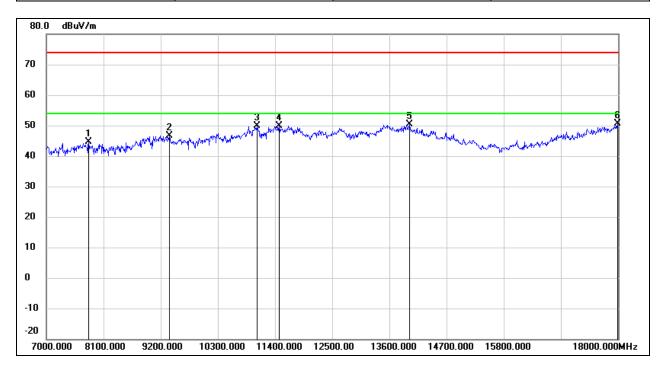
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	9376.000	36.26	10.58	46.84	74.00	-27.16	peak
2	10476.000	35.97	12.77	48.74	74.00	-25.26	peak
3	11422.000	34.21	16.46	50.67	74.00	-23.33	peak
4	11884.000	33.22	17.48	50.70	74.00	-23.30	peak
5	13611.000	29.95	20.92	50.87	74.00	-23.13	peak
6	17956.000	24.72	25.82	50.54	74.00	-23.46	peak



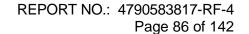


Test Mode: 802.11n HT20 Channel: 5745 MHz

Polarity: Horizontal Test Voltage: DC 12 V

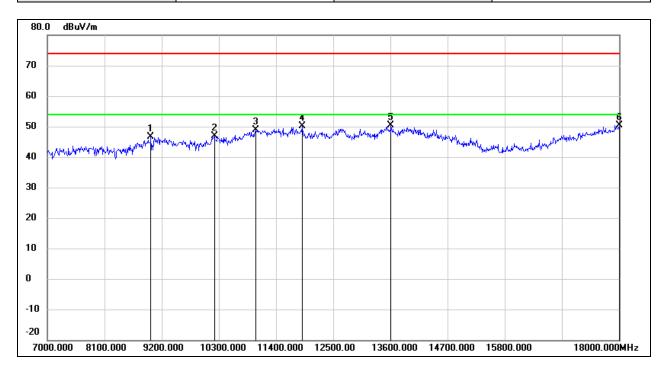


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	7814.000	37.99	6.60	44.59	74.00	-29.41	peak
2	9365.000	36.11	10.57	46.68	74.00	-27.32	peak
3	11048.000	34.96	14.91	49.87	74.00	-24.13	peak
4	11477.000	33.21	16.67	49.88	74.00	-24.12	peak
5	13985.000	28.47	21.85	50.32	74.00	-23.68	peak
6	17989.000	24.64	26.04	50.68	74.00	-23.32	peak





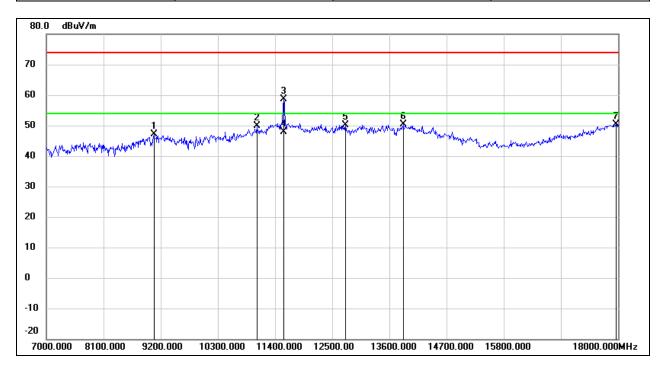
Test Mode: 802.11n HT20 Channel: 5745 MHz
Polarity: Vertical Test Voltage: DC 12 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	8991.000	36.28	10.28	46.56	74.00	-27.44	peak
2	10212.000	34.57	12.21	46.78	74.00	-27.22	peak
3	11015.000	34.17	14.79	48.96	74.00	-25.04	peak
4	11906.000	32.66	17.52	50.18	74.00	-23.82	peak
5	13611.000	29.41	20.92	50.33	74.00	-23.67	peak
6	18000.000	24.23	26.12	50.35	74.00	-23.65	peak



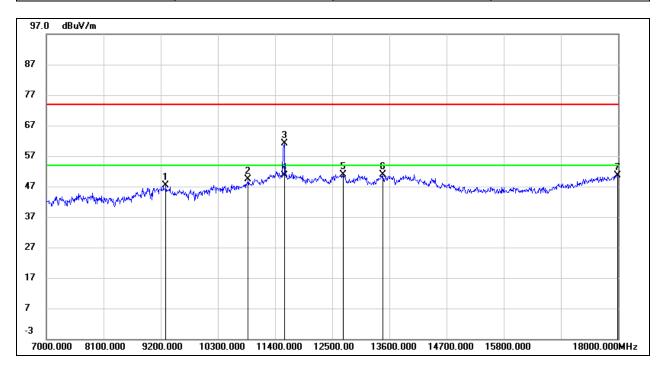
Test Mode:	802.11n HT20	Channel:	5785 MHz
Polarity:	Horizontal	Test Voltage:	DC 12 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	9068.000	36.67	10.39	47.06	74.00	-26.94	peak
2	11048.000	34.92	14.91	49.83	74.00	-24.17	peak
3	11565.000	41.72	16.89	58.61	74.00	-15.39	peak
4	11565.000	30.92	16.89	47.81	54.00	-6.19	AVG
5	12753.000	32.06	18.14	50.20	74.00	-23.80	peak
6	13864.000	28.73	21.53	50.26	74.00	-23.74	peak
7	17956.000	24.62	25.82	50.44	74.00	-23.56	peak



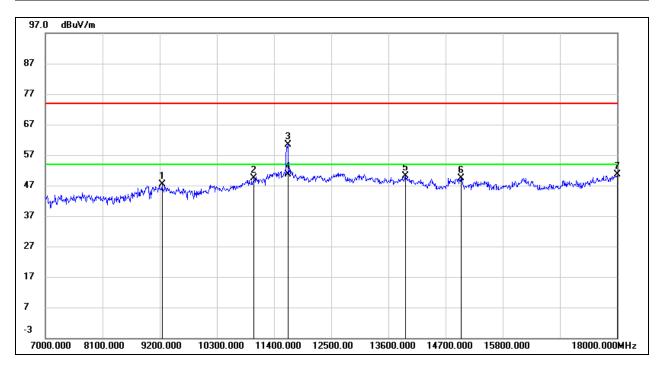
Test Mode:	802.11n HT20	Channel:	5785 MHz
Polarity:	Vertical	Test Voltage:	DC 12 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	9299.000	36.78	10.53	47.31	74.00	-26.69	peak
2	10883.000	35.15	14.27	49.42	74.00	-24.58	peak
3	11576.000	44.20	16.91	61.11	74.00	-12.89	peak
4	11576.000	33.81	16.91	50.72	54.00	-3.28	AVG
5	12709.000	32.82	18.09	50.91	74.00	-23.09	peak
6	13468.000	30.41	20.50	50.91	74.00	-23.09	peak
7	17989.000	24.69	26.04	50.73	74.00	-23.27	peak



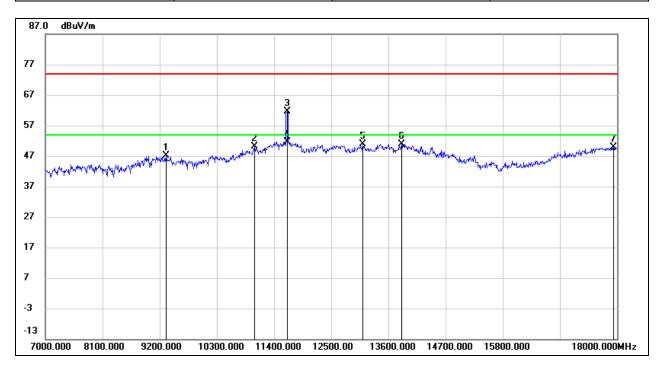
Test Mode:	802.11n HT20	Channel:	5825 MHz
Polarity:	Horizontal	Test Voltage:	DC 12 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	9244.000	36.81	10.49	47.30	74.00	-26.70	peak
2	11015.000	34.54	14.79	49.33	74.00	-24.67	peak
3	11664.000	43.18	17.08	60.26	74.00	-13.74	peak
4	11664.000	33.55	17.08	50.63	54.00	-3.37	AVG
5	13930.000	28.51	21.71	50.22	74.00	-23.78	peak
6	14997.000	31.80	17.68	49.48	74.00	-24.52	peak
7	18000.000	24.60	26.12	50.72	74.00	-23.28	peak



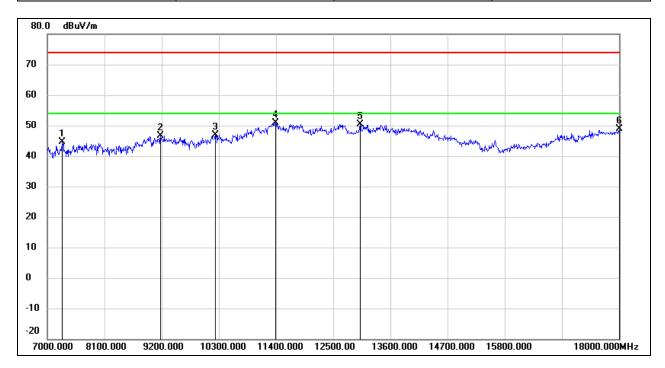
Test Mode:	802.11n HT20	Channel:	5825 MHz
Polarity:	Vertical	Test Voltage:	DC 12 V



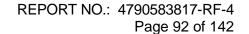
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	9321.000	36.72	10.53	47.25	74.00	-26.75	peak
2	11026.000	35.20	14.82	50.02	74.00	-23.98	peak
3	11653.000	44.65	17.05	61.70	74.00	-12.30	peak
4	11653.000	34.57	17.05	51.62	54.00	-2.38	AVG
5	13105.000	32.03	18.91	50.94	74.00	-23.06	peak
6	13853.000	29.47	21.52	50.99	74.00	-23.01	peak
7	17934.000	24.24	25.67	49.91	74.00	-24.09	peak



Test Mode:	802.11n HT40	Channel:	5190 MHz
Polarity:	Horizontal	Test Voltage:	DC 12 V

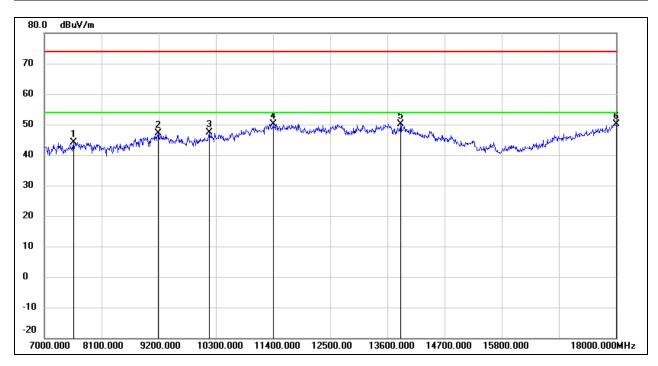


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	7286.000	37.59	6.94	44.53	74.00	-29.47	peak
2	9178.000	36.21	10.45	46.66	74.00	-27.34	peak
3	10234.000	34.65	12.26	46.91	74.00	-27.09	peak
4	11389.000	34.63	16.31	50.94	74.00	-23.06	peak
5	13017.000	31.74	18.53	50.27	74.00	-23.73	peak
6	18000.000	22.80	26.12	48.92	74.00	-25.08	peak

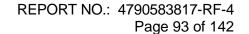




Test Mode:	802.11n HT40	Channel:	5190 MHz
Polarity:	Vertical	Test Voltage:	DC 12 V

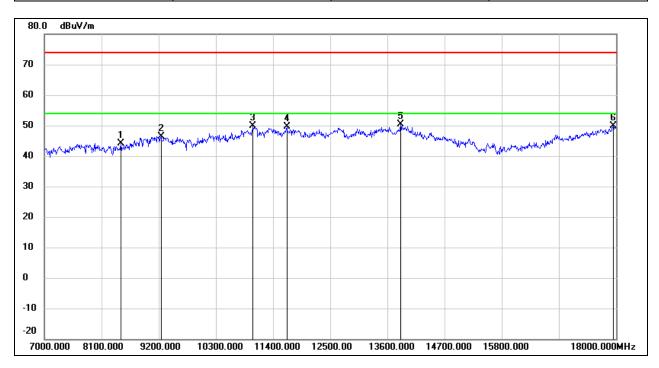


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	7561.000	37.33	6.82	44.15	74.00	-29.85	peak
2	9189.000	36.62	10.46	47.08	74.00	-26.92	peak
3	10179.000	35.19	12.14	47.33	74.00	-26.67	peak
4	11400.000	33.76	16.36	50.12	74.00	-23.88	peak
5	13853.000	28.65	21.52	50.17	74.00	-23.83	peak
6	18000.000	24.12	26.12	50.24	74.00	-23.76	peak

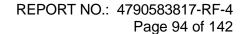




Test Mode:	802.11n HT40	Channel:	5230 MHz
Polarity:	Horizontal	Test Voltage:	DC 12 V

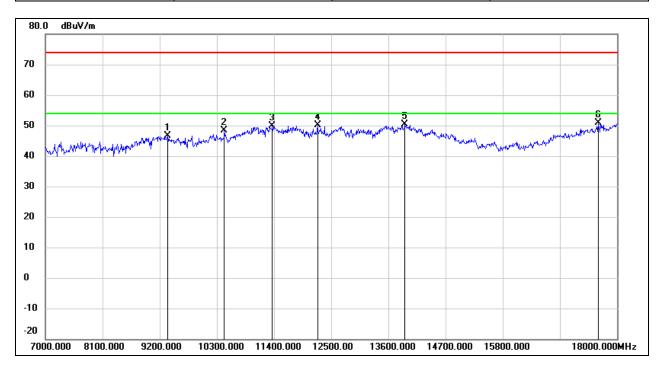


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	8474.000	37.21	6.86	44.07	74.00	-29.93	peak
2	9244.000	35.88	10.49	46.37	74.00	-27.63	peak
3	11015.000	35.18	14.79	49.97	74.00	-24.03	peak
4	11664.000	32.49	17.08	49.57	74.00	-24.43	peak
5	13853.000	28.91	21.52	50.43	74.00	-23.57	peak
6	17945.000	24.22	25.75	49.97	74.00	-24.03	peak





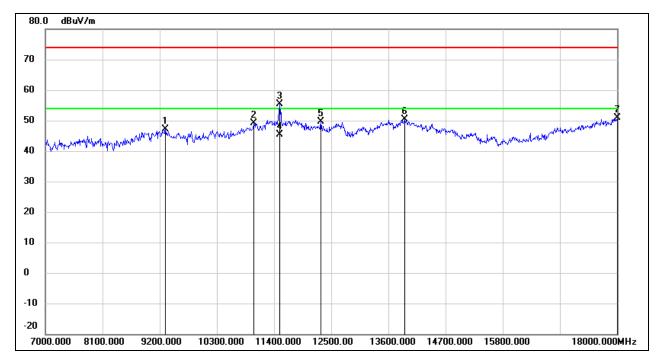
Test Mode: 802.11n HT40 Channel: 5230 MHz
Polarity: Vertical Test Voltage: DC 12 V



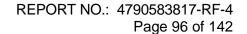
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	9354.000	36.09	10.56	46.65	74.00	-27.35	peak
2	10443.000	35.63	12.70	48.33	74.00	-25.67	peak
3	11367.000	33.64	16.22	49.86	74.00	-24.14	peak
4	12236.000	32.40	17.76	50.16	74.00	-23.84	peak
5	13919.000	28.66	21.68	50.34	74.00	-23.66	peak
6	17637.000	27.26	23.64	50.90	74.00	-23.10	peak



Test Mode:	802.11n HT40	Channel:	5755 MHz
Polarity:	Horizontal	Test Voltage:	DC 12 V

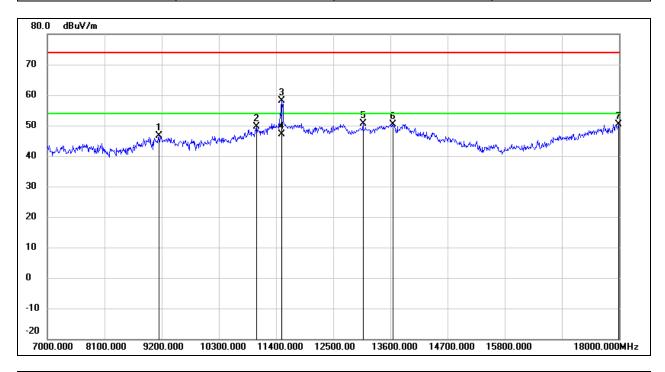


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	9310.000	36.68	10.54	47.22	74.00	-26.78	peak
2	11015.000	34.34	14.79	49.13	74.00	-24.87	peak
3	11510.000	38.54	16.79	55.33	74.00	-18.67	peak
4	11510.000	28.59	16.79	45.38	54.00	-8.62	AVG
5	12302.000	31.90	17.78	49.68	74.00	-24.32	peak
6	13908.000	28.64	21.66	50.30	74.00	-23.70	peak
7	18000.000	24.86	26.12	50.98	74.00	-23.02	peak





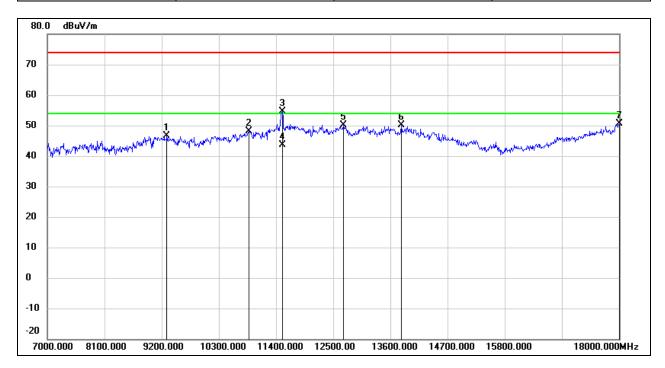
Test Mode: 802.11n HT40 Channel: 5755 MHz
Polarity: Vertical Test Voltage: DC 12 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	9145.000	36.20	10.43	46.63	74.00	-27.37	peak
2	11026.000	34.73	14.82	49.55	74.00	-24.45	peak
3	11510.000	41.44	16.79	58.23	74.00	-15.77	peak
4	11510.000	30.32	16.79	47.11	54.00	-6.89	AVG
5	13072.000	31.81	18.77	50.58	74.00	-23.42	peak
6	13655.000	29.41	21.03	50.44	74.00	-23.56	peak
7	17989.000	24.36	26.04	50.40	74.00	-23.60	peak



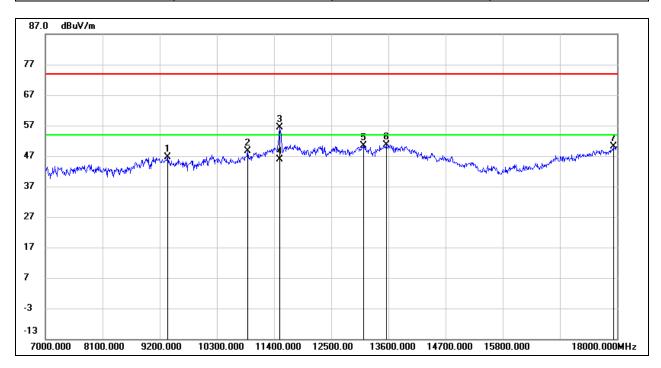
Test Mode:	802.11n HT40	Channel:	5795 MHz
Polarity:	Horizontal	Test Voltage:	DC 12 V



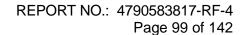
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	9299.000	36.19	10.53	46.72	74.00	-27.28	peak
2	10883.000	33.75	14.27	48.02	74.00	-25.98	peak
3	11521.000	37.91	16.82	54.73	74.00	-19.27	peak
4	11521.000	26.89	16.82	43.71	54.00	-10.29	AVG
5	12698.000	31.97	18.08	50.05	74.00	-23.95	peak
6	13809.000	28.65	21.41	50.06	74.00	-23.94	peak
7	18000.000	24.58	26.12	50.70	74.00	-23.30	peak



Test Mode:	802.11n HT40	Channel:	5795 MHz
Polarity:	Vertical	Test Voltage:	DC 12 V

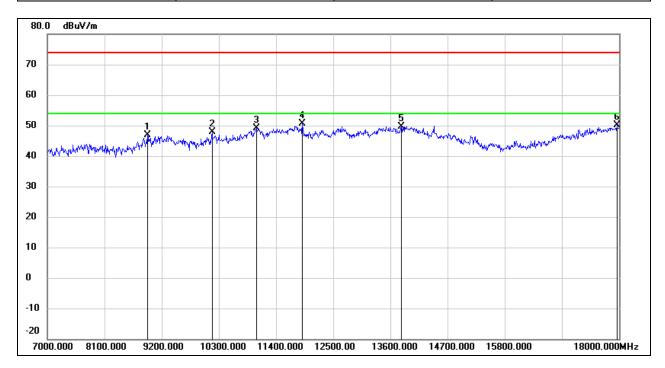


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	9354.000	36.01	10.56	46.57	74.00	-27.43	peak
2	10894.000	34.24	14.32	48.56	74.00	-25.44	peak
3	11510.000	39.67	16.79	56.46	74.00	-17.54	peak
4	11510.000	29.12	16.79	45.91	54.00	-8.09	AVG
5	13116.000	31.46	18.96	50.42	74.00	-23.58	peak
6	13556.000	29.87	20.78	50.65	74.00	-23.35	peak
7	17934.000	24.48	25.67	50.15	74.00	-23.85	peak

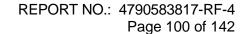




Test Mode:	802.11ac VHT80	Channel:	5210 MHz
Polarity:	Horizontal	Test Voltage:	DC 12 V

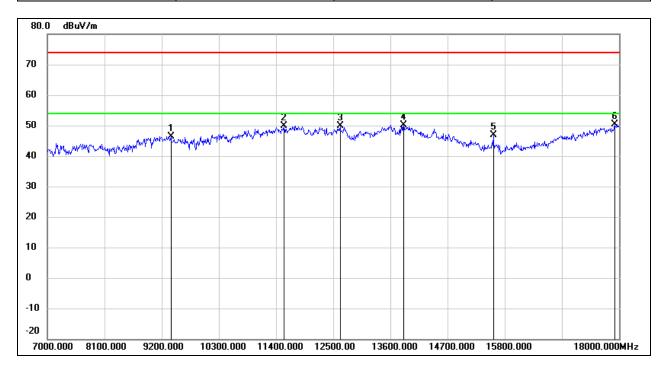


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	8925.000	36.94	9.82	46.76	74.00	-27.24	peak
2	10168.000	35.68	12.13	47.81	74.00	-26.19	peak
3	11026.000	34.32	14.82	49.14	74.00	-24.86	peak
4	11906.000	33.03	17.52	50.55	74.00	-23.45	peak
5	13809.000	28.20	21.41	49.61	74.00	-24.39	peak
6	17956.000	24.40	25.82	50.22	74.00	-23.78	peak

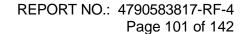




Test Mode:	802.11ac VHT80	Channel:	5210 MHz
Polarity:	Vertical	Test Voltage:	DC 12 V

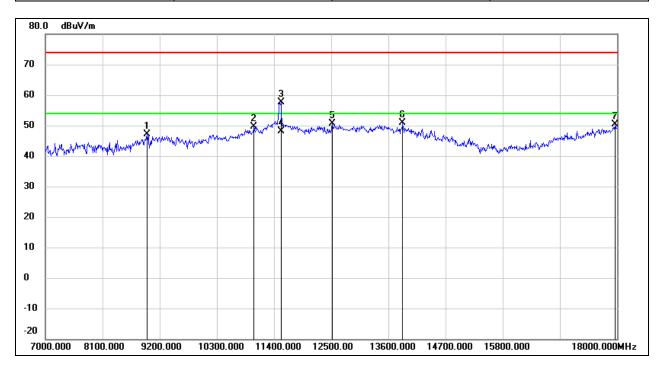


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	9376.000	35.80	10.58	46.38	74.00	-27.62	peak
2	11554.000	32.98	16.87	49.85	74.00	-24.15	peak
3	12632.000	31.79	17.99	49.78	74.00	-24.22	peak
4	13853.000	28.54	21.52	50.06	74.00	-23.94	peak
5	15580.000	30.08	16.75	46.83	74.00	-27.17	peak
6	17912.000	24.90	25.52	50.42	74.00	-23.58	peak

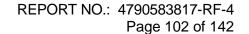




Test Mode:	802.11ac VHT80	Channel:	5775 MHz
Polarity:	Horizontal	Test Voltage:	DC 12 V

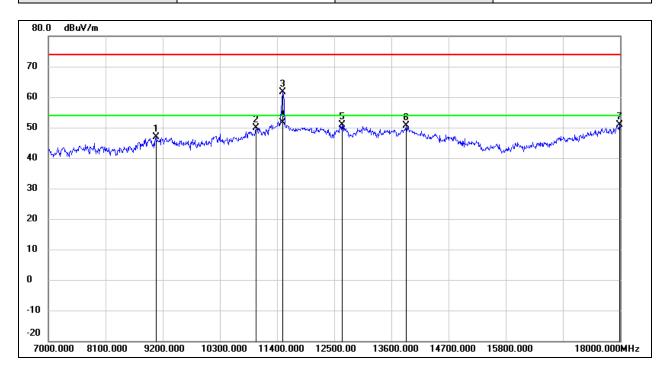


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	8958.000	37.11	10.05	47.16	74.00	-26.84	peak
2	11015.000	34.74	14.79	49.53	74.00	-24.47	peak
3	11532.000	40.91	16.83	57.74	74.00	-16.26	peak
4	11532.000	31.19	16.83	48.02	54.00	-5.98	AVG
5	12522.000	32.70	17.86	50.56	74.00	-23.44	peak
6	13875.000	29.30	21.57	50.87	74.00	-23.13	peak
7	17967.000	24.52	25.89	50.41	74.00	-23.59	peak





Test Mode:	802.11ac VHT80	Channel:	5775 MHz
Polarity:	Vertical	Test Voltage:	DC 12 V

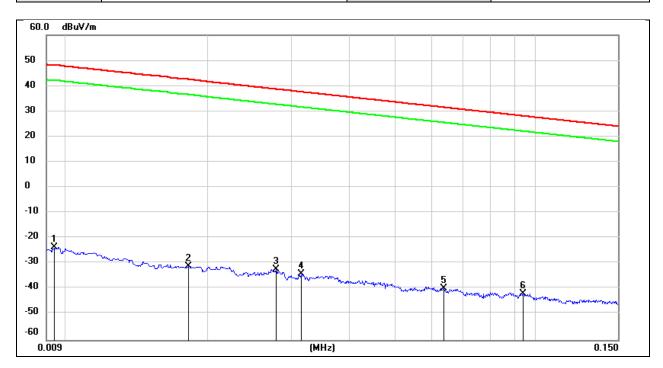


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	9068.000	36.43	10.39	46.82	74.00	-27.18	peak
2	10993.000	35.28	14.70	49.98	74.00	-24.02	peak
3	11510.000	44.88	16.79	61.67	74.00	-12.33	peak
4	11510.000	34.73	16.79	51.52	54.00	-2.48	AVG
5	12654.000	32.78	18.01	50.79	74.00	-23.21	peak
6	13886.000	29.06	21.60	50.66	74.00	-23.34	peak
7	17989.000	24.92	26.04	50.96	74.00	-23.04	peak

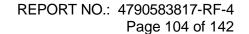
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8.4. SPURIOUS EMISSIONS (9 KHZ ~ 30 MHZ)

Test Mode:	802.11n HT40	Channel:	5230 MHz
Polarity:	Loop Antenna Face On To The EUT	Test Voltage	DC 12 V

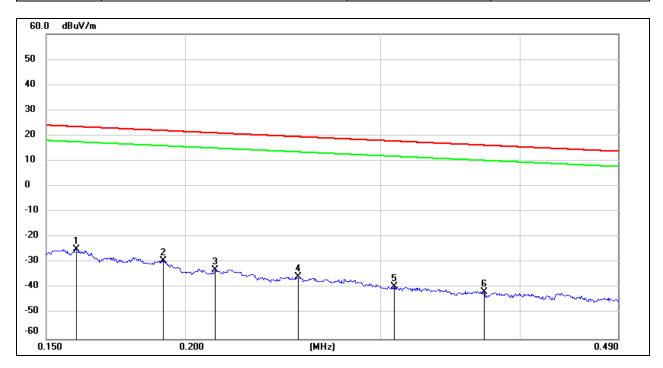


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	0.0094	77.66	-101.35	-23.69	48.05	-71.74	peak
2	0.0181	70.35	-101.36	-31.01	42.45	-73.46	peak
3	0.0279	69.17	-101.38	-32.21	38.69	-70.90	peak
4	0.0316	67.24	-101.40	-34.16	37.61	-71.77	peak
5	0.0636	61.81	-101.54	-39.73	31.53	-71.26	peak
6	0.0942	59.92	-101.75	-41.83	28.12	-69.95	peak

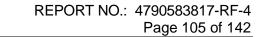




Test Mode:	802.11n HT40	Channel:	5230 MHz
Polarity:	Loop Antenna Face On To The EUT	Test Voltage	DC 12 V

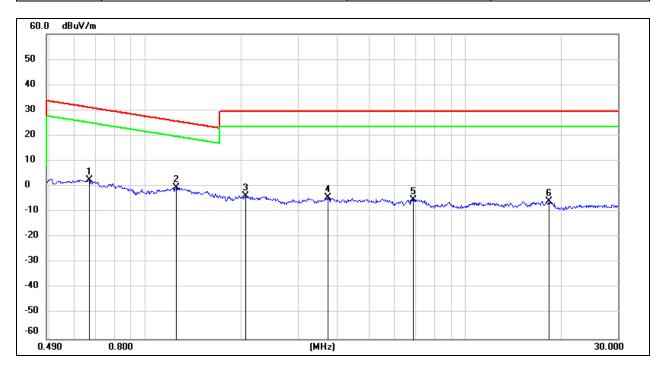


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	0.1595	76.86	-101.65	-24.79	23.55	-48.34	peak
2	0.1912	72.47	-101.70	-29.23	21.97	-51.20	peak
3	0.2127	68.95	-101.74	-32.79	21.04	-53.83	peak
4	0.2530	66.14	-101.80	-35.66	19.54	-55.20	peak
5	0.3084	62.45	-101.86	-39.41	17.82	-57.23	peak
6	0.3714	60.28	-101.93	-41.65	16.20	-57.85	peak





Test Mode:	802.11n HT40	Channel:	5230 MHz
Polarity:	Loop Antenna Face On To The EUT	Test Voltage	DC 12 V



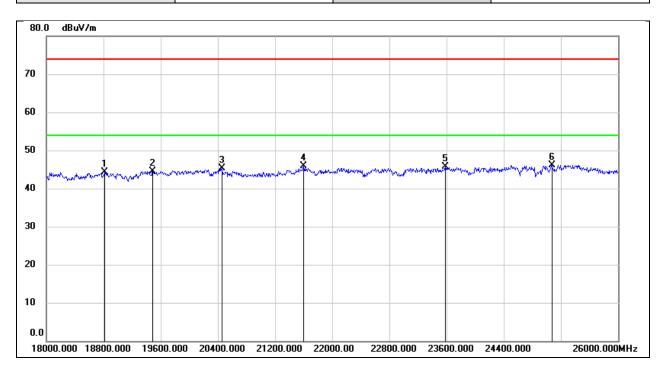
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	0.6671	64.75	-62.10	2.65	31.12	-28.47	peak
2	1.2459	61.75	-62.16	-0.41	25.70	-26.11	peak
3	2.0539	58.20	-61.81	-3.61	29.54	-33.15	peak
4	3.7100	57.20	-61.41	-4.21	29.54	-33.75	peak
5	6.8936	56.09	-61.22	-5.13	29.54	-34.67	peak
6	18.2545	54.93	-60.90	-5.97	29.54	-35.51	peak



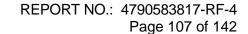
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8.5. SPURIOUS EMISSIONS (18 GHZ ~ 26 GHZ)

Test Mode:	802.11n HT40	Channel:	5230 MHz
Polarity:	Horizontal	Test Voltage:	DC 12 V

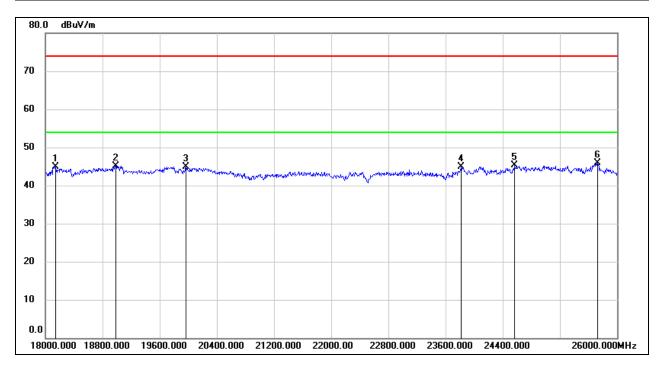


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	18816.000	49.71	-5.38	44.33	74.00	-29.67	peak
2	19488.000	50.05	-5.56	44.49	74.00	-29.51	peak
3	20456.000	50.63	-5.39	45.24	74.00	-28.76	peak
4	21600.000	50.52	-4.54	45.98	74.00	-28.02	peak
5	23584.000	48.92	-3.15	45.77	74.00	-28.23	peak
6	25072.000	48.17	-1.97	46.20	74.00	-27.80	peak





Test Mode:	802.11n HT40	Channel:	5230 MHz
Polarity:	Vertical	Test Voltage:	DC 12 V



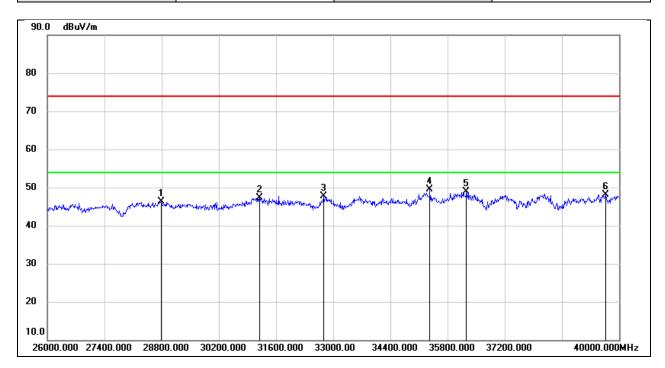
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	18144.000	50.38	-5.48	44.90	74.00	-29.10	peak
2	18984.000	50.29	-5.23	45.06	74.00	-28.94	peak
3	19968.000	50.36	-5.42	44.94	74.00	-29.06	peak
4	23816.000	47.95	-3.08	44.87	74.00	-29.13	peak
5	24568.000	47.60	-2.33	45.27	74.00	-28.73	peak
6	25728.000	46.61	-0.72	45.89	74.00	-28.11	peak



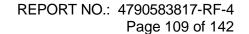
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8.6. SPURIOUS EMISSIONS (26 GHZ ~ 40 GHZ)

Test Mode:	802.11n HT40	Channel:	5230 MHz
Polarity:	Horizontal	Test Voltage:	DC 12 V

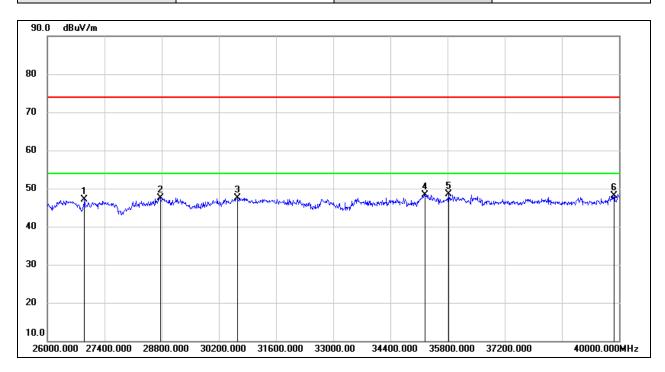


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	28786.000	46.99	-0.64	46.35	74.00	-27.65	peak
2	31194.000	48.04	-0.80	47.24	74.00	-26.76	peak
3	32762.000	48.95	-1.21	47.74	74.00	-26.26	peak
4	35366.000	46.90	2.59	49.49	74.00	-24.51	peak
5	36262.000	45.60	3.28	48.88	74.00	-25.12	peak
6	39678.000	43.27	4.87	48.14	74.00	-25.86	peak





Test Mode:	802.11n HT40	Channel:	5230 MHz
Polarity:	Vertical	Test Voltage:	DC 12 V

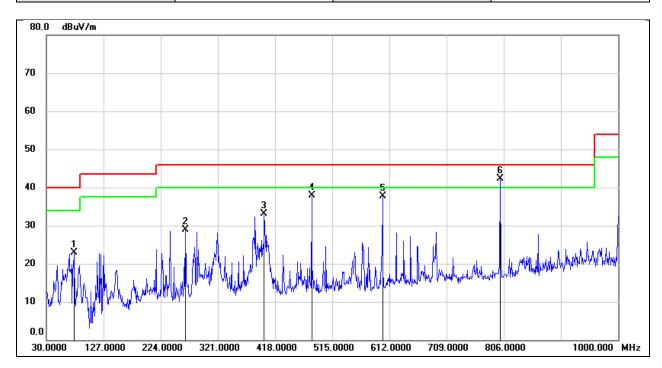


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	26910.000	51.14	-4.11	47.03	74.00	-26.97	peak
2	28772.000	48.16	-0.59	47.57	74.00	-26.43	peak
3	30648.000	48.65	-1.07	47.58	74.00	-26.42	peak
4	35254.000	45.62	2.65	48.27	74.00	-25.73	peak
5	35828.000	44.75	3.67	48.42	74.00	-25.58	peak
6	39874.000	43.15	4.98	48.13	74.00	-25.87	peak

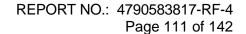
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8.7. SPURIOUS EMISSIONS (30 MHZ ~ 1 GHZ)

Test Mode:	802.11n HT40	Channel:	5230 MHz
Polarity:	Horizontal	Test Voltage:	DC 12 V

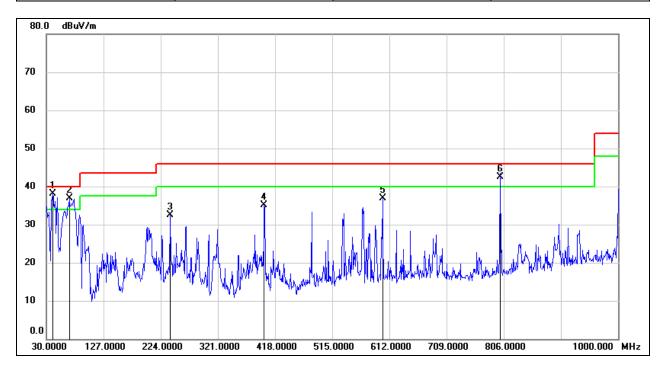


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	76.5600	44.01	-21.07	22.94	40.00	-17.06	QP
2	265.7100	46.97	-18.09	28.88	46.00	-17.12	QP
3	399.5700	46.50	-13.37	33.13	46.00	-12.87	QP
4	480.0800	49.67	-11.79	37.88	46.00	-8.12	QP
5	600.3600	47.27	-9.54	37.73	46.00	-8.27	QP
6	800.1800	49.67	-7.33	42.34	46.00	-3.66	QP





Test Mode:	802.11n HT40	Channel:	5230 MHz
Polarity:	Vertical	Test Voltage:	DC 12 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	40.6699	58.21	-20.05	38.16	40.00	-1.84	QP
2	68.8000	57.43	-20.56	36.87	40.00	-3.13	QP
3	239.5200	51.70	-19.16	32.54	46.00	-13.46	QP
4	399.5700	48.39	-13.37	35.02	46.00	-10.98	QP
5	600.3600	46.50	-9.54	36.96	46.00	-9.04	QP
6	800.1800	49.91	-7.33	42.58	46.00	-3.42	QP



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9. ANTENNA REQUIREMENT

REQUIREMENT

Please refer to FCC part 15.203

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

Please refer to FCC part 15.247(b)(4)

The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

DESCRIPTION

Pass



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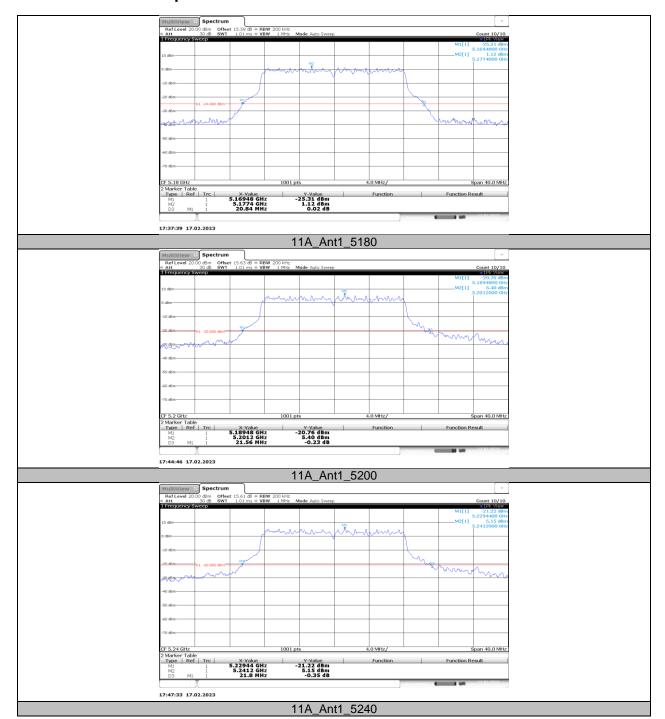
10. TEST DATA

10.1. APPENDIX A: EMISSION BANDWIDTH 10.1.1. Test Result

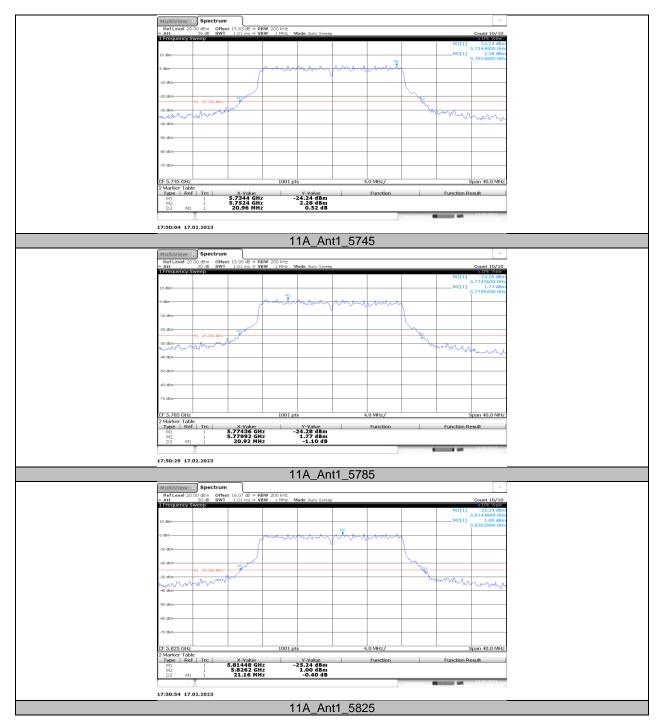
Test Mode	Antenna	Channel	26db EBW [MHz]	FL[MHz]	FH[MHz]	Verdict
		5180	20.84	5169.48	5190.32	PASS
		5200	21.56	5189.48	5211.04	PASS
11A	Ant1	5240	21.80	5229.44	5251.24	PASS
HA	Anti	5745	20.96	5734.40	5755.36	PASS
		5785	20.92	5774.36	5795.28	PASS
		5825	21.16	5814.48	5835.64	PASS
	Antd	5180	21.76	5169.12	5190.88	PASS
		5200	21.48	5189.20	5210.68	PASS
11N20SISO		5240	21.48	5229.12	5250.60	PASS
1111203130	Ant1	5745	21.84	5733.96	5755.80	PASS
		5785	21.56	5774.00	5795.56	PASS
		5825	21.48	5814.24	5835.72	PASS
		5190	40.40	5169.76	5210.16	PASS
11N40SISO	A n+1	5230	40.72	5209.52	5250.24	PASS
1111403130	Ant1	5755	40.56	5734.60	5775.16	PASS
		5795	40.80	5774.36	5815.16	PASS
11AC80SISO	Ant1	5210	82.40	5168.56	5250.96	PASS
11AC00313U	Ant1	5775	82.40	5733.40	5815.80	PASS



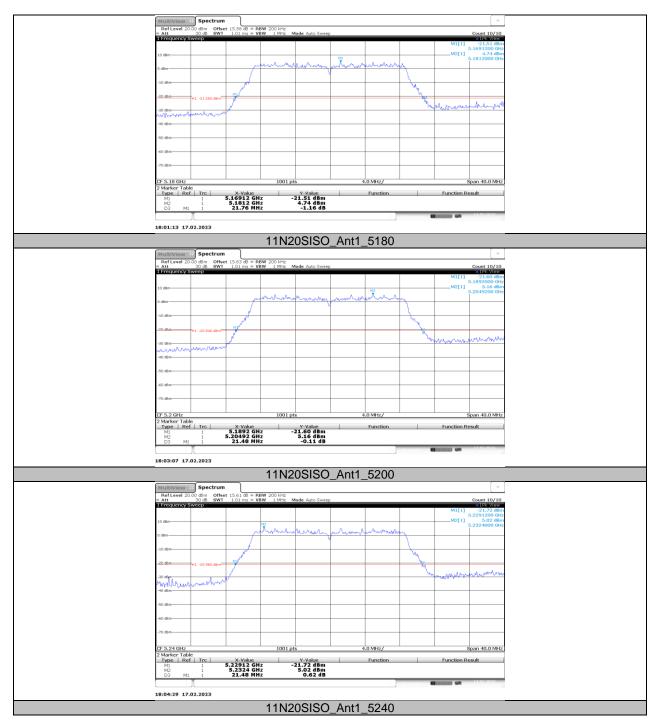
10.1.2. Test Graphs



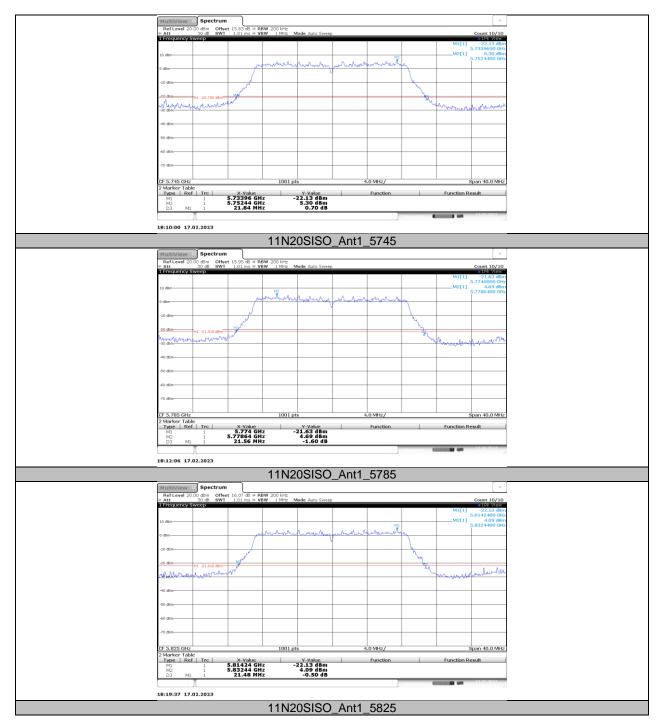




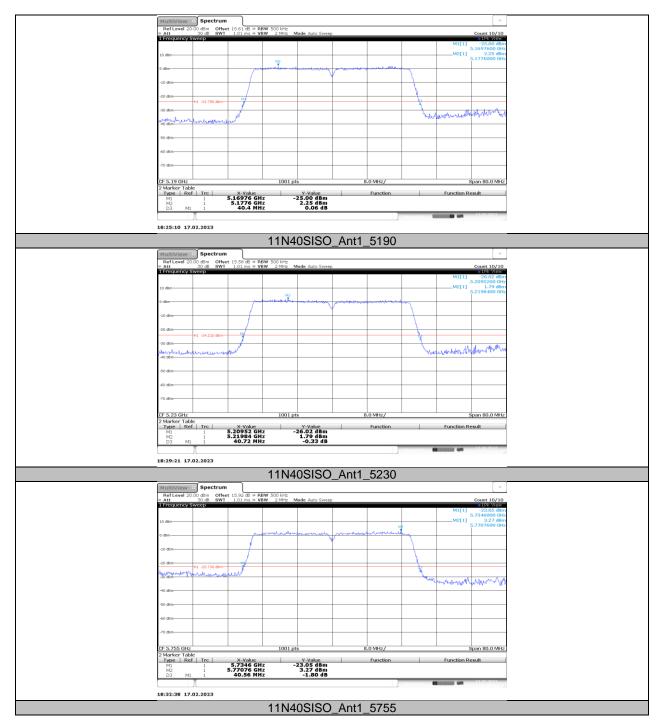




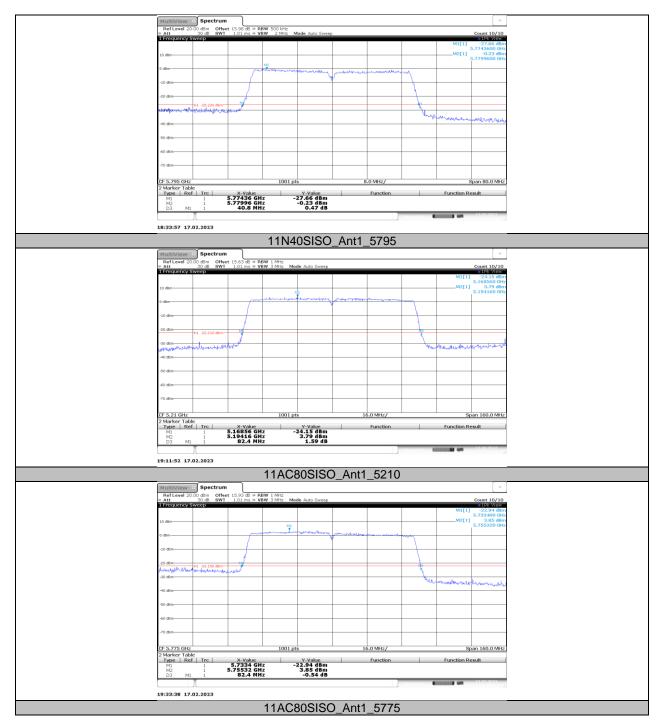














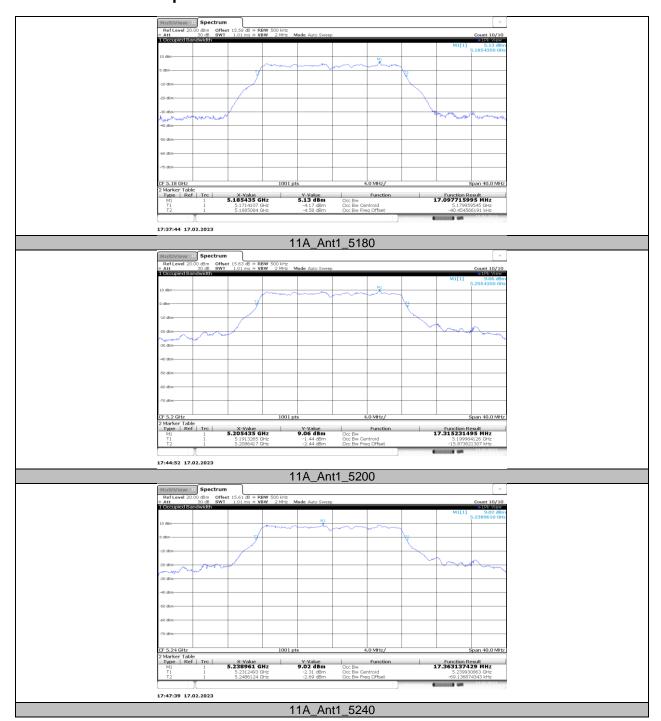
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10.2. APPENDIX B: OCCUPIED CHANNEL BANDWIDTH 10.2.1. Test Result

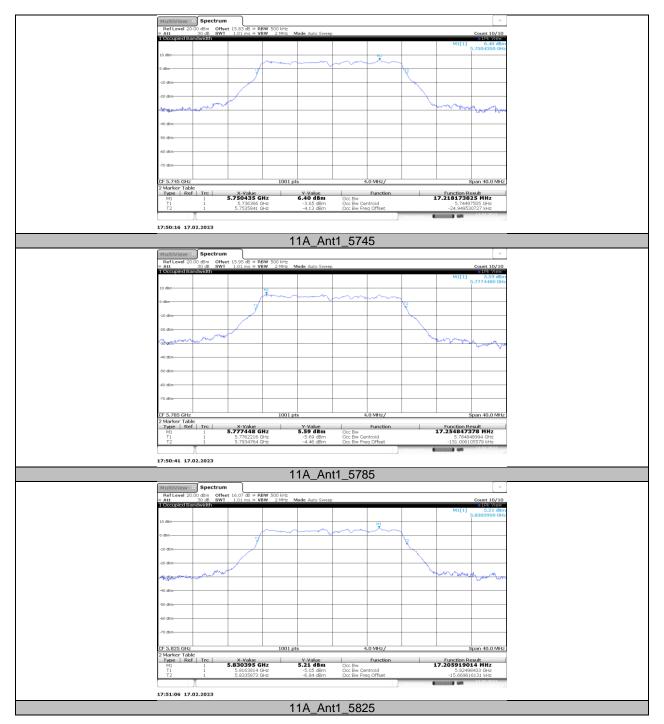
Test Mode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Verdict
		5180	17.098	5171.4107	5188.5084	PASS
		5200	17.315	5191.3265	5208.6417	PASS
11A	A mtd	5240	17.363	5231.2493	5248.6124	PASS
HA	Ant1	5745	17.218	5736.3660	5753.5841	PASS
		5785	17.255	5776.2216	5793.4764	PASS
		5825	17.206	5816.3814	5833.5873	PASS
	Ant1	5180	18.831	5170.5080	5189.3387	PASS
		5200	18.814	5190.5308	5209.3444	PASS
11N20SISO		5240	18.858	5230.4667	5249.3245	PASS
1111203130		5745	18.976	5735.4165	5754.3930	PASS
		5785	19.01	5775.2911	5794.3011	PASS
		5825	18.984	5815.4677	5834.4520	PASS
		5190	37.159	5171.4662	5208.6252	PASS
11N40SISO	Ant1	5230	36.835	5211.4115	5248.2468	PASS
1111403130	Ant1	5755	36.826	5736.4273	5773.2532	PASS
		5795	37.008	5776.2635	5813.2710	PASS
11AC80SISO	Ant1	5210	76.314	5171.6699	5247.9842	PASS
TACOUSISU	Ant1	5775	76.306	5736.4774	5812.7832	PASS



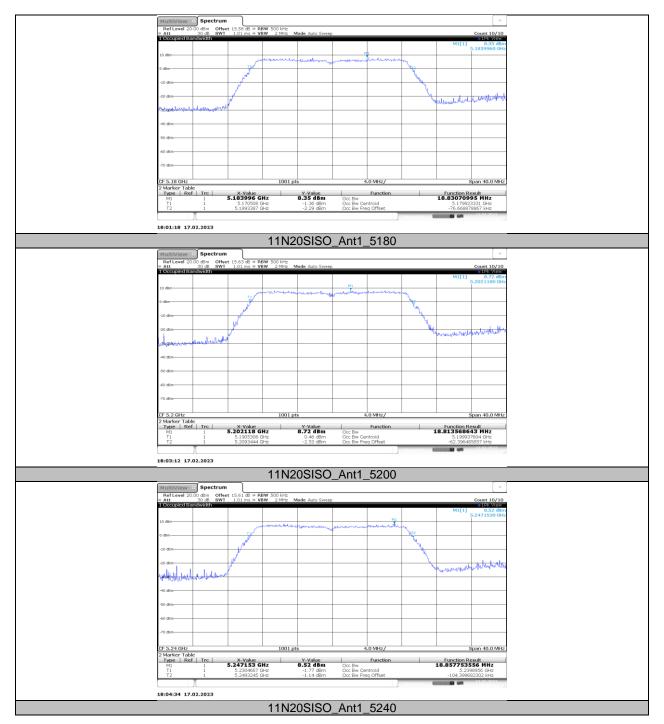
10.2.2. Test Graphs



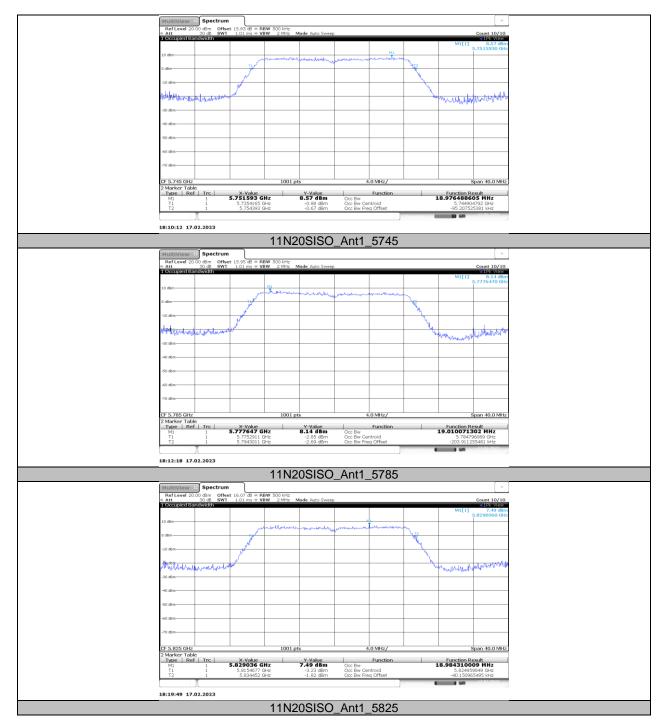




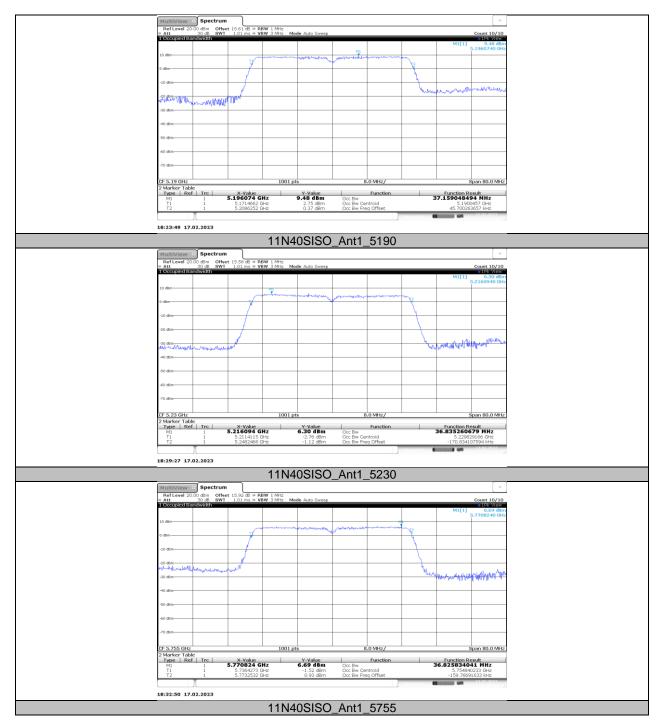




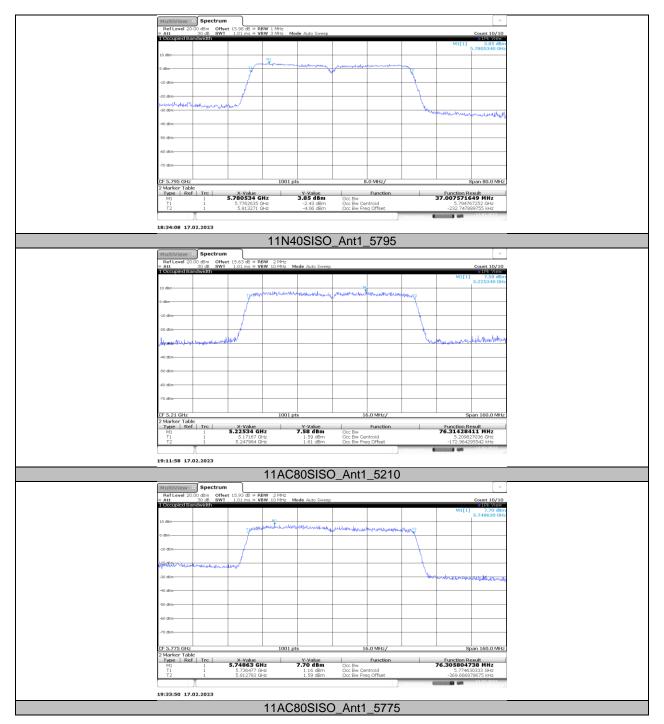














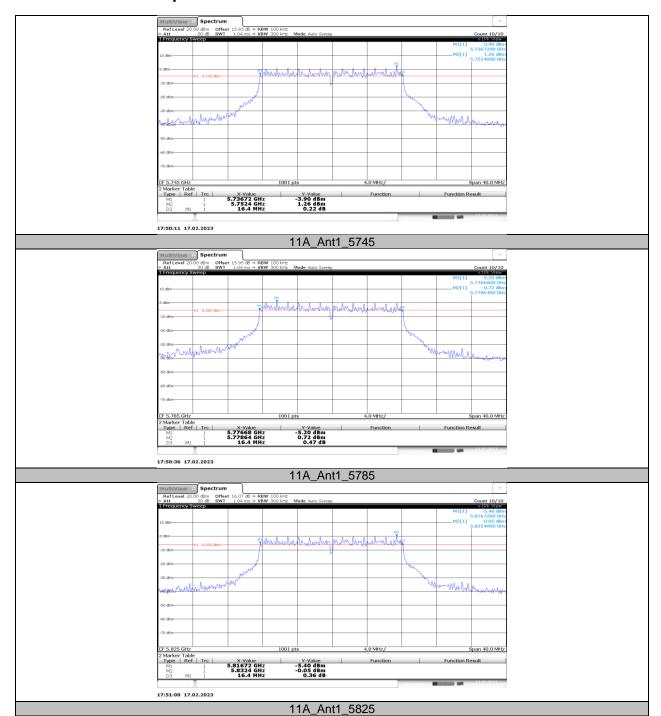
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10.3. APPENDIX C: MIN EMISSION BANDWIDTH 10.3.1. Test Result

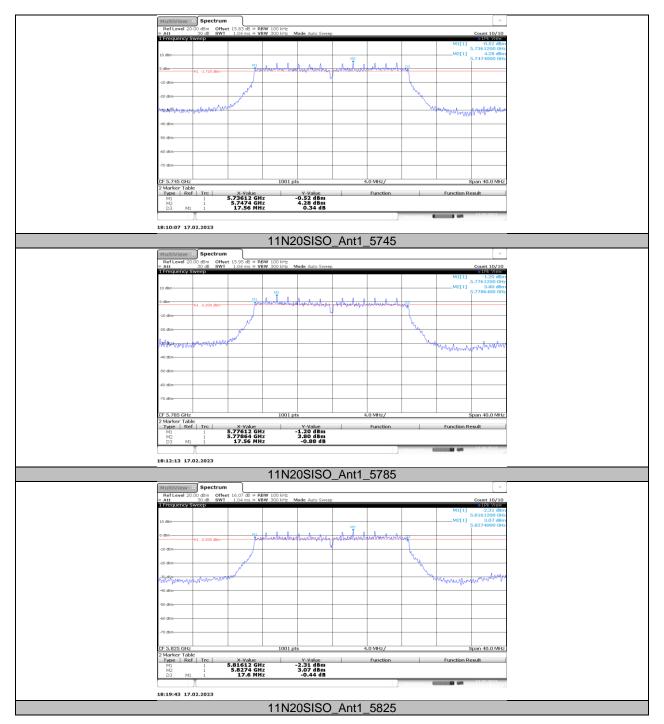
Test Mode	Antenna	Channel	6db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
		5745	16.40	5736.72	5753.12	0.5	PASS
11A	Ant1	5785	16.40	5776.68	5793.08	0.5	PASS
		5825	16.40	5816.72	5833.12	0.5	PASS
	Ant1	5745	17.56	5736.12	5753.68	0.5	PASS
11N20SISO		5785	17.56	5776.12	5793.68	0.5	PASS
		5825	17.60	5816.12	5833.72	0.5	PASS
11N40SISO	Ant1	5755	36.32	5736.76	5773.08	0.5	PASS
1111403130	Anti	5795	35.76	5776.76	5812.52	0.5	PASS
11AC80SISO	Ant1	5775	75.20	5737.24	5812.44	0.5	PASS



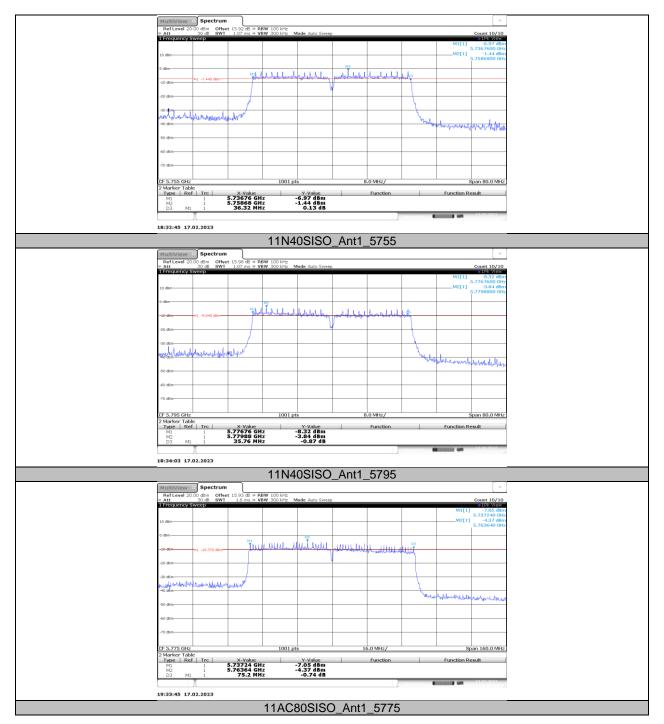
10.3.2. Test Graphs













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10.4. APPENDIX D: MAXIMUM OUTPUT POWER 10.4.1. Test Result

Test Mode	Antenna	Channel	Power [dBm]	FCC Limit [dBm]	Verdict
		5180	14.75	≤23.98	PASS
		5200	15.22	≤23.98	PASS
11A	Ant1	5240	15.15	≤23.98	PASS
IIA	Anti	5745	15.24	≤30.00	PASS
		5785	14.32	≤30.00	PASS
		5825	13.84	≤30.00	PASS
	Ant1	5180	14.91	≤23.98	PASS
		5200	14.63	≤23.98	PASS
11N20SISO		5240	14.63	≤23.98	PASS
1111/203130		5745	14.54	≤30.00	PASS
		5785	13.53	≤30.00	PASS
		5825	13.73	≤30.00	PASS
		5190	15.17	≤23.98	PASS
11N40SISO	Ant1	5230	15.52	≤23.98	PASS
1111405150	Anti	5755	15.04	≤30.00	PASS
		5795	14.82	≤30.00	PASS
1110000100	Ant1	5210	14.58	≤23.98	PASS
11AC80SISO	Ant1	5775	13.46	≤30.00	PASS

Note: 1. Conducted Power=Meas. Level+ Correction Factor

^{2.} The Duty Cycle Factor (refer to section 7.1) had already compensated to the test data.



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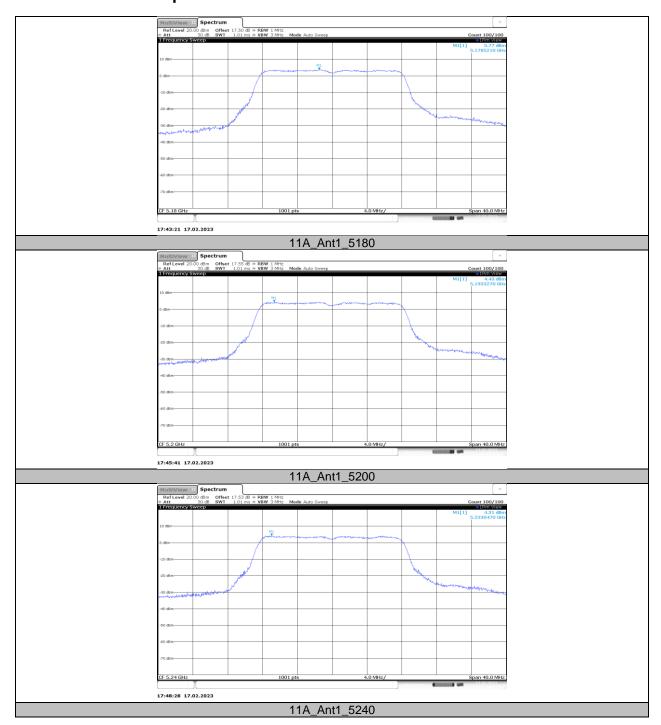
10.5. APPENDIX E: MAXIMUM POWER SPECTRAL DENSITY 10.5.1. Test Result

Test Mode	Antenna	Channel	Power [dBm/MHz]	Limit [dBm/MHz]	Verdict
		5180	3.77	≤11.00	PASS
		5200	4.43	≤11.00	PASS
44.0	A 44	5240	4.31	≤11.00	PASS
11A	Ant1	5745	1.54	≤30.00	PASS
		5785	1.11	≤30.00	PASS
		5825	0.39	≤30.00	PASS
	Ant1	5180	4.21	≤11.00	PASS
		5200	4.61	≤11.00	PASS
11N20SISO		5240	4.61	≤11.00	PASS
1111/205150		5745	1.47	≤30.00	PASS
		5785	0.67	≤30.00	PASS
		5825	0.62	≤30.00	PASS
		5190	1.67	≤11.00	PASS
1111100100	Λ m+1	5230	2.21	≤11.00	PASS
11N40SISO	Ant1	5755	-2.14	≤30.00	PASS
	Ī	5795	-1.52	≤30.00	PASS
111000000	A n.+1	5210	-2.49	≤11.00	PASS
11AC80SISO	Ant1	5775	-5.18	≤30.00	PASS

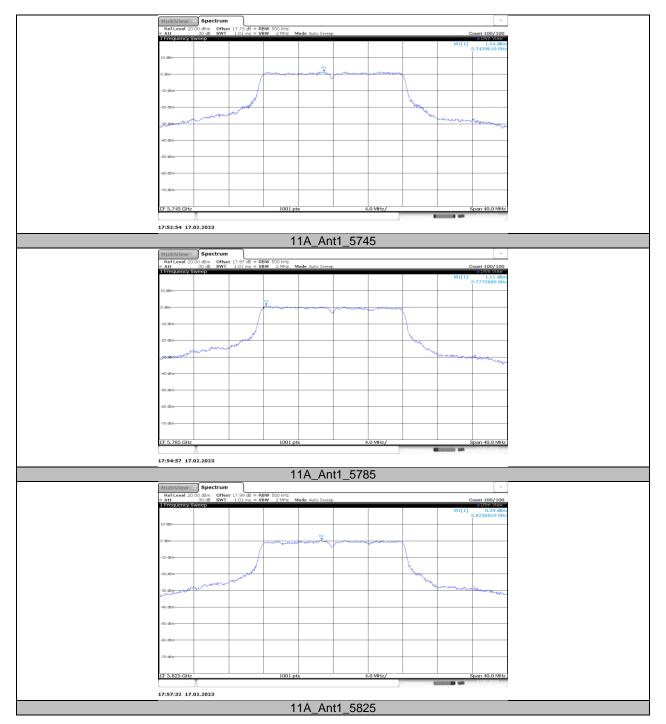
Note: 1.The Result and Limit Unit is dBm/500 kHz in the band 5.725–5.85 GHz. 2.The Duty Cycle Factor and RBW Factor is compensated in the graph.



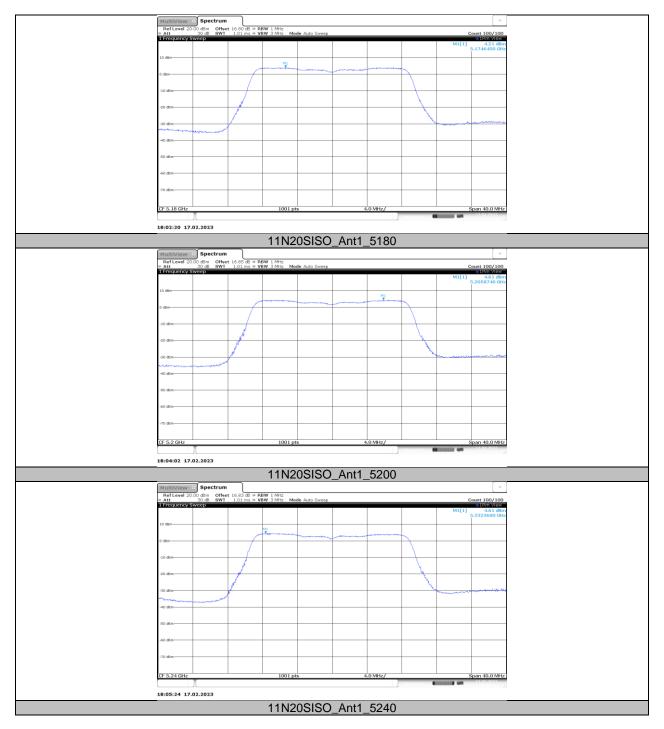
10.5.2. Test Graphs



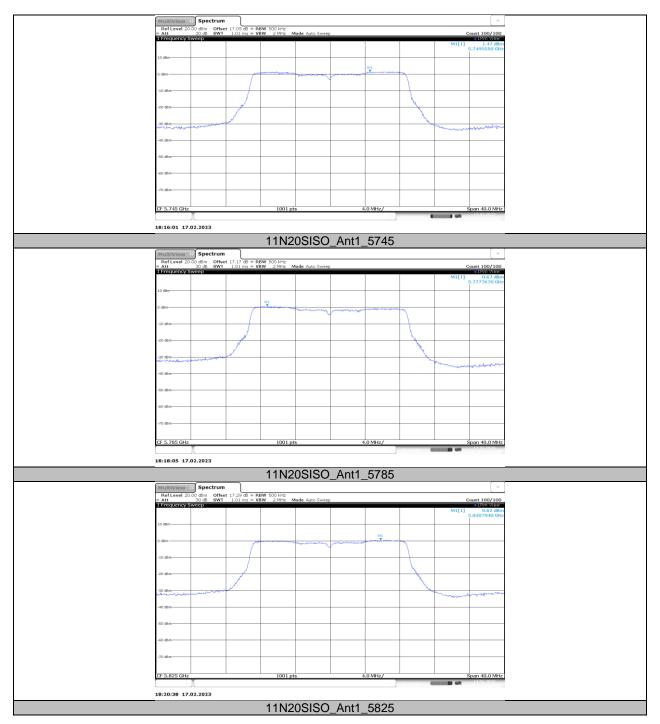




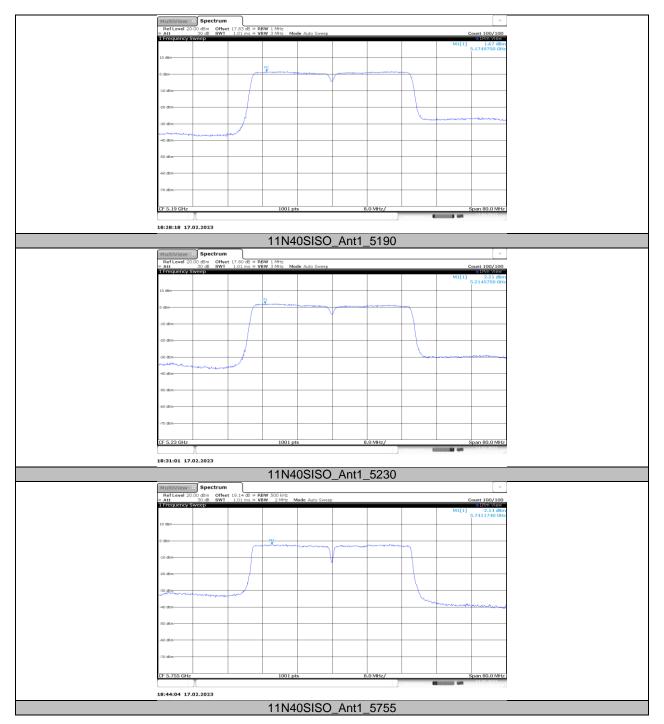




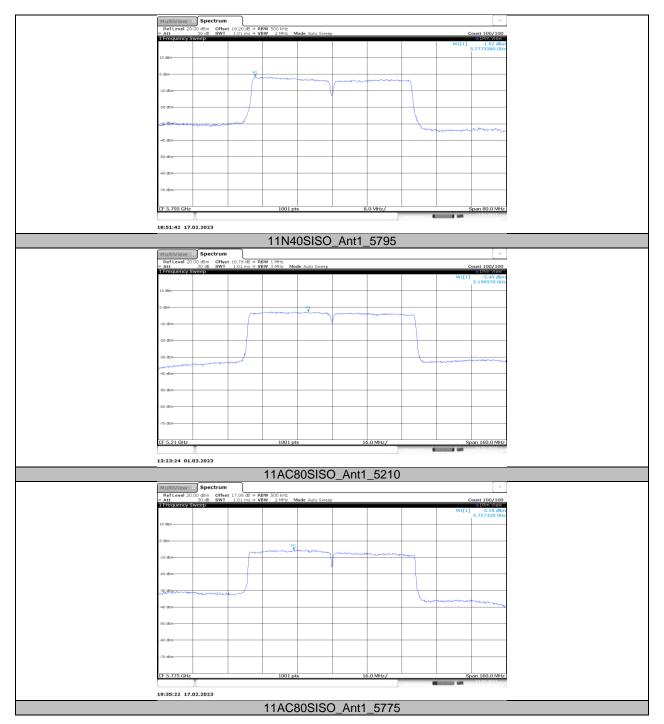












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10.6. APPENDIX F: FREQUENCY STABILITY 10.6.1. Test Result

	Frequency Error vs. Voltage									
	802.11a 20: 5200MHz									
	0 Minute			2 Min	ute	5 Min	5 Minute		10 Minute	
Temp.	Volt.	Freq.Error (MHz)	Tolerance (ppm)	Freq.Error (MHz)	Tolerance (ppm)	Freq.Error (MHz)	Tolerance (ppm)	Freq.Error (MHz)	Tolerance (ppm)	
TN	VL	5199.9915	-1.64	5199.9911	-1.71	5200.0134	2.57	5200.0190	3.66	
TN	VN	5200.0144	2.77	5199.9876	-2.38	5200.0175	3.37	5199.9795	-3.94	
TN	VH	5199.9788	-4.08	5200.0003	0.07	5199.9921	-1.52	5200.0110	2.12	

Frequency Error vs. Temperature

802.11a 20: 5200MHz

Temp.	Volt.	0 Minute		2 Minute		5 Minute		10 Minute		
		Freq.Error (MHz)	Tolerance (ppm)	Freq.Error (MHz)	Tolerance (ppm)	Freq.Error (MHz)	Tolerance (ppm)	Freq.Error (MHz)	Tolerance (ppm)	
65	VN	5199.9871	-2.48	5200.0230	4.42	5200.0131	2.53	5199.9973	-0.52	
60	VN	5199.9851	-2.87	5200.0083	1.59	5200.0199	3.83	5200.0097	1.87	
50	VN	5200.0222	4.27	5200.0095	1.83	5199.9991	-0.18	5199.9969	-0.60	
40	VN	5200.0117	2.25	5199.9771	-4.40	5200.0227	4.36	5200.0133	2.57	
30	VN	5200.0189	3.63	5200.0104	1.99	5199.9861	-2.68	5200.0079	1.52	
20	VN	5200.0150	2.89	5200.0019	0.36	5199.9924	-1.46	5200.0019	0.36	
10	VN	5200.0217	4.17	5199.9894	-2.04	5199.9895	-2.01	5199.9940	-1.15	
0	VN	5200.0038	0.73	5200.0187	3.59	5200.0004	0.08	5199.9955	-0.86	
-10	VN	5200.0139	2.67	5199.9781	-4.22	5199.9862	-2.66	5200.0047	0.90	
-20	VN	5200.0218	4.19	5199.9851	-2.87	5200.0165	3.18	5200.0049	0.94	
-30	VN	5199.9990	-0.19	5199.9981	-0.37	5199.9897	-1.97	5199.9882	-2.27	

Note:

- 1. All modes have been tested, only the worst data record in the report.
- 2. For the detail Test Conditions, please refer to section 7.5.



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10.7. APPENDIX G: DUTY CYCLE 10.7.1. Test Result

Test Mode	On Time (msec)	Period (msec)	Duty Cycle x (Linear)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	1/T Minimum VBW (kHz)	Final setting For VBW (kHz)
11A	0.18	0.28	0.6429	64.29	1.92	5.56	6
11N20SISO	1.32	1.75	0.7543	75.43	1.22	0.76	1
11N40SISO	0.66	0.76	0.8684	86.84	0.61	1.52	2
11AC80SISO	0.67	1.02	0.6569	65.69	1.83	1.49	2

Note:

Duty Cycle Correction Factor=10log (1/x).

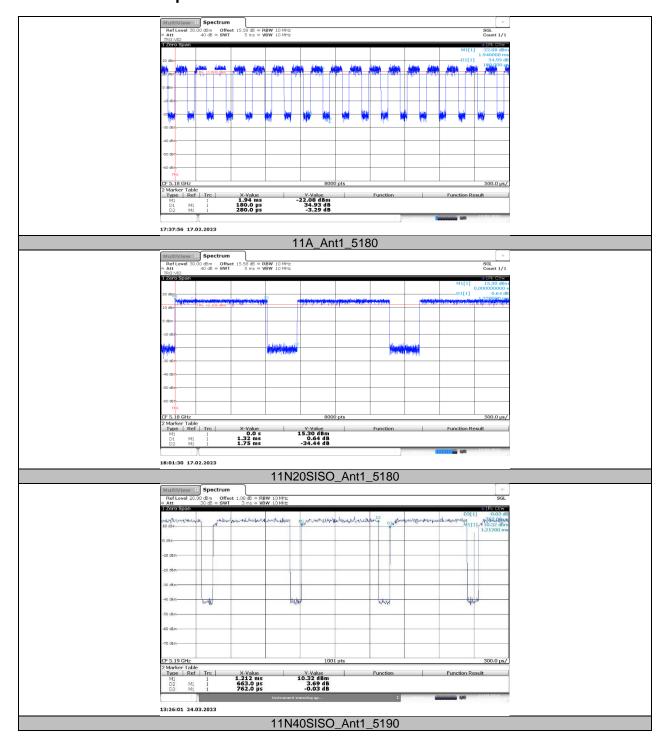
Where: x is Duty Cycle (Linear)

Where: T is On Time

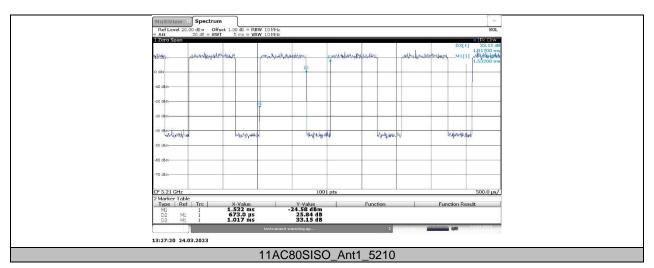
If that calculated VBW is not available on the analyzer then the next higher value should be used.



10.7.2. Test Graphs







END OF REPORT