

Report No.: SEWM2307000296RG02

Rev.: 01

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# TEST REPORT

**Application No.:** SEWM2307000296RG  
**Applicant:** SUZHOU EAVISION ROBOTIC TECHNOLOGIES CO., LTD  
**Address of Applicant:** Unit 1-A, No.3 Workshop, 28 Xiasheng Road, SIP, Suzhou, China  
**Manufacturer:** SUZHOU EAVISION ROBOTIC TECHNOLOGIES CO., LTD  
**Address of Manufacturer:** Unit 1-A, No.3 Workshop, 28 Xiasheng Road, SIP, Suzhou, China  
**Factory:** SUZHOU EAVISION ROBOTIC TECHNOLOGIES CO., LTD  
**Address of Factory:** Unit 1-A, No.3 Workshop, 28 Xiasheng Road, SIP, Suzhou, China  
**EUT Description:** EA-20XEP Agricultural Spraying Drone  
**Model No.:** EA-20XEP, 3WWDZ-20D  
**Trade Mark:** EAVISION  
**FCC ID:** 2AXLB-EA20XEP  
**Standards:** FCC 47 CFR Part 2, Subpart J  
FCC 47 CFR Part 15, Subpart E  
**Date of Receipt:** 2023/07/31  
**Date of Test:** 2023/08/04 to 2023/08/10  
**Date of Issue:** 2023/09/06

**Test Result :****PASS \***

\* In the configuration tested, the EUT detailed in this report complied with the standards specified above.

Authorized Signature:

Well Wei

Well Wei

Wireless Laboratory Manager



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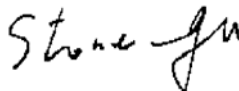
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## 1 Version

Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2023/09/06		Original

Prepared By		 (Ives Cheng) / Test Engineer
Checked By		 (Stone Gu) / Reviewer



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## 2 Test Summary

Test Item	Band <sup>[1]</sup>	FCC rules No.	Test Requirements	Test Result	Result
Antenna Requirement	--	15.203/15.407(a)	--	Clause 4.1	PASS
26dB Emission Bandwidth	Band III	KDB 789033 D02& C	No limit.	Clause 4.5	For Report Purpose
6dB Emission Bandwidth	Band III	15.407(e)	≥ 500 kHz.	Clause 4.6	PASS
99% Occupied Bandwidth	Band III	KDB 789033 D02& D	No limit.	Clause 4.7	For Report Purpose
Duty Cycle	Band III	--	No limit.	Clause 4.3	For Report Purpose
Maximum Conducted Output Power	Band III	15.407(a)(3)	< 1W	Clause 4.4	PASS
Maximum Power Spectral Density	Band III	15.407(a)(3)	<30dBm/500KHz	Clause 4.8	PASS
Radiated Spurious Emissions	Band III	15.407(b) 15.205/15.209	F<1GHz: §15.209 limit (QP) F≥1GHz & out-restricted:(PK) All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge. F≥1GHz & in-restricted: §15.209 limit (AV&PK).	Clause 4.9	PASS
Restricted bands around fundamental frequency	Band III	15.407(b) 15.205/15.209	---	Clause 4.10	PASS
Frequency Stability	Band III	15.407(g)	Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of	N/A	N/A



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			normal operation as specified in the users manual		
Note 1: Band III: 5725-5850MHz					

Remark: There are series models mentioned in this report and they are the similar in electrical and electronic characters. Only the model EA-20XEP was tested since their differences were Model number, trade name and appearance.



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### 3 General Information

#### 3.1 Details of Client

Applicant:	SUZHOU EAVISION ROBOTIC TECHNOLOGIES CO., LTD
Address of Applicant:	Unit 1-A, No.3 Workshop, 28 Xiasheng Road, SIP, Suzhou, China
Manufacturer:	SUZHOU EAVISION ROBOTIC TECHNOLOGIES CO., LTD
Address of Manufacturer:	Unit 1-A, No.3 Workshop, 28 Xiasheng Road, SIP, Suzhou, China

#### 3.2 Test Location

Company:	SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.
Address:	South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone
Post code:	215000
Test engineer:	Ives Cheng, Tizzy Song

#### 3.3 Test Facility

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

• **A2LA (Certificate No. 6336.01)**

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 6336.01.

• **Innovation, Science and Economic Development Canada**

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0120.

IC#: 27594.

• **FCC –Designation Number: CN1312**

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized as an accredited testing laboratory.

Designation Number: CN1312.

Test Firm Registration Number: 717327



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### 3.4 General Description of EUT

EUT Description:	EA-20XEP Agricultural Spraying Drone	
Model No.:	EA-20XEP, 3WWDZ-20D	
Trade Mark:	EAVISION	
Power Supply:	DC 48.75V by Battery Battery model:JM1-20000mAh-48.75V Max Charge Voltage:56.55V Nominal Voltage:48.75V Rated Capacity:20000mAh,975Wh	
WLAN Mode Supported:	802.11a:	20 MHz channel bandwidth
Operation Frequency:	5725MHz to 5850MHz	
Modulation Type:	802.11a:	OFDM (BPSK, QPSK, 16QAM, 64QAM)
Channel Spacing:	20MHz:	802.11a
Antenna Type:	Dipole Antenna	
Antenna Gain:	5725MHz to 5850MHz: 4.91dBi(Ant1); 4.91dBi(Ant2);	
	Note: The antenna gain are derived from the gain information report provided by the manufacturer.	
Smart System:	<input checked="" type="checkbox"/> SISO	802.11a
	<input type="checkbox"/> MIMO	802.11a: Tx & Rx
	<input type="checkbox"/> Diversity	802.11a: Tx & Rx
RF Cable:	2dB	
Remark: As above information is provided and confirmed by the applicant. SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.		



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## Remark:

In FCC 15.31, for each band in which the device can be operated with the device operating at the number of frequencies in each band specified in the following table, and the selected channel to perform the test as below:

Frequency range over which device operates	Number of Measurement Frequencies Required	Location of Measurement Frequency in Band of Operation
1 MHz or less	1	centre
1 MHz to 10 MHz	2	1 near high end, 1 near low end
Greater than 10 MHz	3	1 near high end, 1 near centre

## For UNII Band III:

Mode	Channel	Frequency(MHz)
IEEE 802.11a 20MHz	The Lowest channel	5745
	The Middle channel	5785
	The Highest channel	5825

### 3.5 Test Environment and Mode

Environment Parameter	101.0 kPa Selected Values During Tests	
Relative Humidity	44-46 % RH Ambient	
Value	Temperature(°C)	Voltage(V)
NTNV	22~23	48.75 (Battery)

Remark:  
NV: Normal Voltage  
NT: Normal Temperature

### 3.6 Description of Support Units

The EUT has been tested as an independent unit.

### 3.7 Worst-case configuration and mode

Low data rate was used to test on antenna port conducted tests and radiated spurious emissions since it has the highest maximum power. Following are the worst-case data rates set for test:

Modulation Type	SISO - Data Rate	MIMO - Data Rate
802.11a	6 Mbps	/



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## 4 Test results and Measurement Data

### 4.1 Antenna Requirement

<b>Standard requirement:</b>	47 CFR Part 15 Section 15.203
<p>The antenna is Dipole Antenna and no consideration of replacement.</p> <p>The best case gain of the antenna is 5725MHz to 5850MHz: 4.91dBi(Ant1); 4.91dBi(Ant2);*</p> <p><i>*Note:</i></p> <p><i>The antenna gain are derived from the gain information report provided by the manufacturer.</i></p> <p><i>Remark:</i></p> <p><i>As above information is provided and confirmed by the applicant. SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.</i></p>	



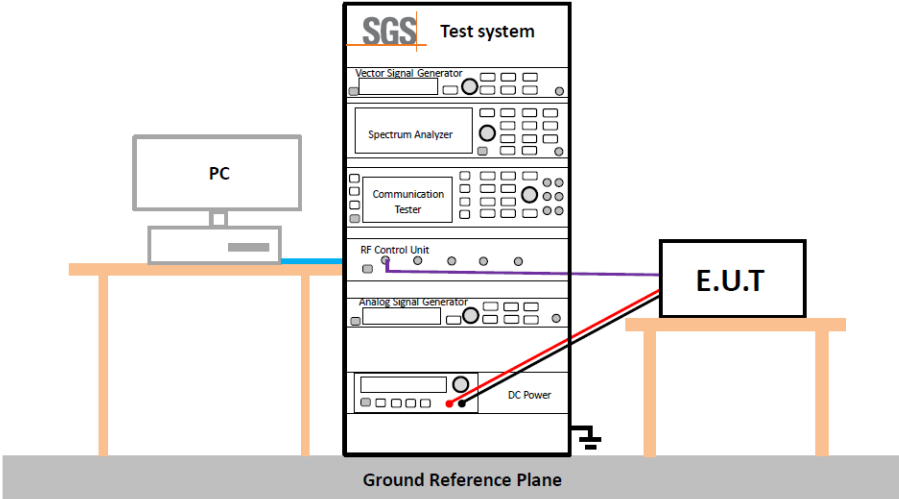
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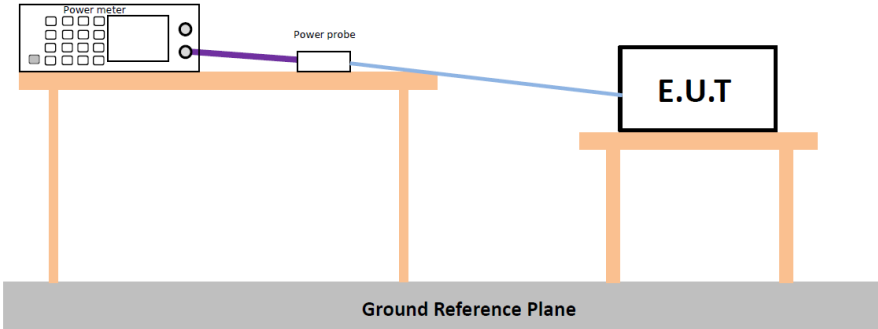
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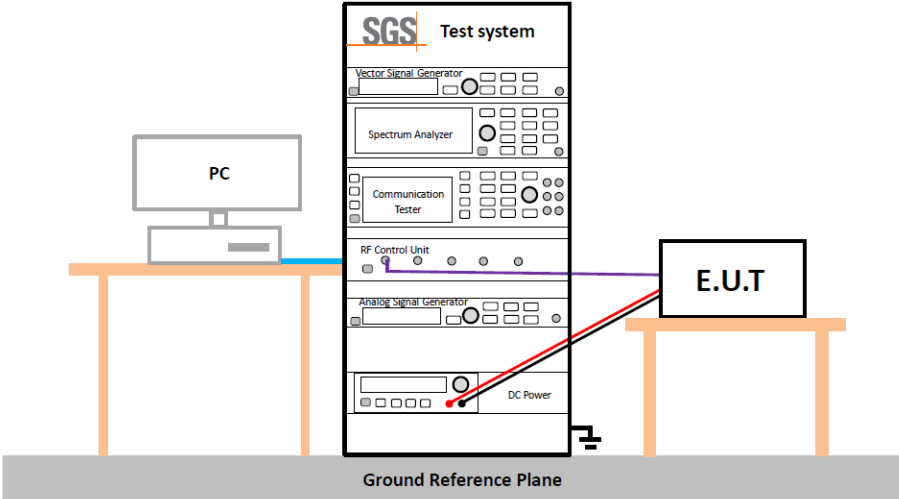
## 4.2 Duty Cycle

Test Requirement:	ANSI C63.10-2013 Section 12.2
Test Method:	ANSI C63.10-2013 Section 12.2
Test Setup:	
Instruments Used:	Refer to section 6 for details
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Refer to section 3.7 for details.
Limit:	No restriction limits
Test Results:	For report purpose
The detailed test data see: <b>Appendix</b>	

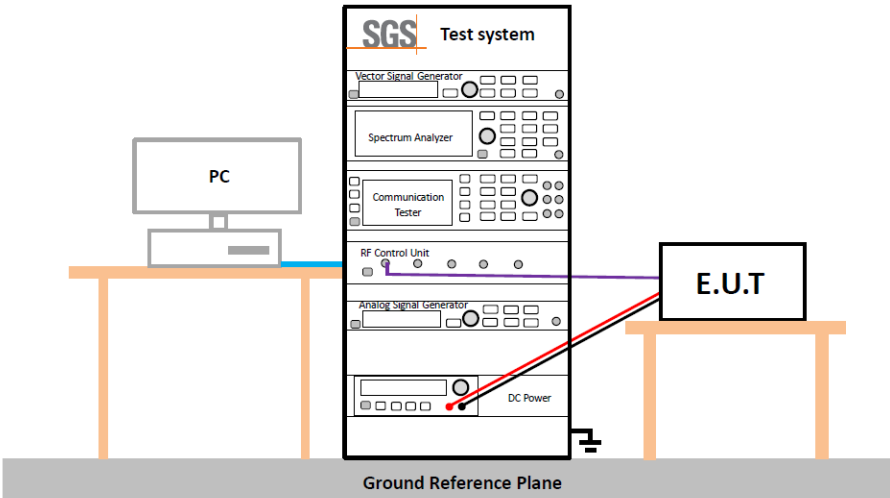
### 4.3 Conducted Output Power

Test Requirement:	47 CFR Part 15 Section 15.407(a)	
Test Method:	ANSI C63.10-2013 Section 12.3.3.2	
Test Setup:	<div><p>* Test with power meter (Detector function: Average) Method PM-G is measurement using a gated RF average power meter. Measurements may be performed using a wideband gated RF power meter provided that the gate parameters are adjusted such that the power is measured only when the EUT is transmitting at its maximum power control level. Because the measurement is made only during the ON time of the transmitter, no duty cycle correction factor is required.</p></div>	
Test Instruments:	Refer to section 6 for details.	
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates	
Final Test Mode:	Refer to section 3.7 for details.	
Limit:	Frequency Band	Limit
	5725-5850MHz	Not exceed 1W(30dBm)
Test Results:	Pass	
The detailed test data see: <b>Appendix</b>		

## 4.4 26dB Emission Bandwidth

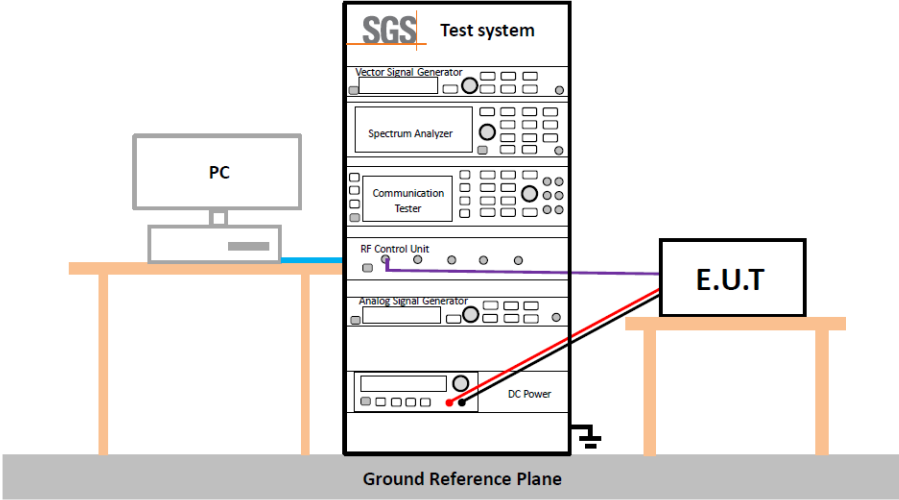
Test Requirement:	KDB 789033 D02& C
Test Method:	ANSI C63.10-2013 Section 12.4.1
Test Setup:	
Instruments Used:	Refer to section 6 for details.
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Refer to section 3.7 for details.
Limit:	No restriction limits
Test Results:	For Report Purpose
The detailed test data see: <b>Appendix</b>	

## 4.5 6dB Emission Bandwidth

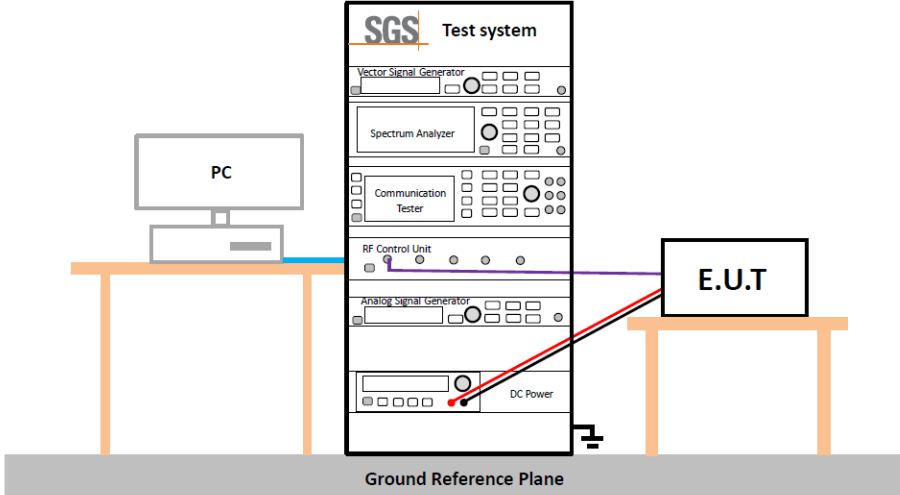
Test Requirement:	47 CFR Part 15 Section 15.407(e)	
Test Method:	ANSI C63.10-2013 Section 12.4.1	
Test Setup:		
Test Instruments:	Refer to section 6 for details.	
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates	
Final Test Mode:	Refer to section 3.7 for details.	
Limit:	Frequency Band	Limit
	5725-5850MHz	At lease 500kHz
Test Results:	Pass	
The detailed test data see: <b>Appendix</b>		



## 4.6 99% Occupied Bandwidth

Test Requirement:	KDB 789033 D02§ D
Test Method:	ANSI C63.10-2013 Section 12.4.2
Test Setup:	
Instruments Used:	Refer to section 6 for details.
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Refer to section 3.7 for details.
Limit:	No restriction limits
Test Results:	For Report Purpose
The detailed test data see: <b>Appendix</b>	

## 4.7 Power Spectral Density

Test Requirement:	47 CFR Part 15 Section 15.407(a)	
Test Method:	ANSI C63.10-2013 Section 12.5 KDB 789033 D02 v02r01, Section F.	
Test Setup:		
Instruments Used:	Refer to section 6 for details.	
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates	
Final Test Mode:	Refer to section 3.7 for details.	
Limit:	Frequency Band	Limit
	5725-5850MHz	The power spectral density less than <30dBm/500KHz
Test Results:	Pass	
The detailed test data see: <b>Appendix</b>		

### 4.8 Radiated Spurious Emissions

Test Requirement:	47 CFR Part 15 Section 15.205/15.209/15.407(b)
Test Method:	ANSI C63.10-2013 Section 6.4 / 6.5 / 6.6
Test Site:	Measurement Distance: 3m or 10m (Semi-Anechoic Chamber)
Test frequency:	9kHz ~ 40GHz(or 10 Harmonic)

#### Test Setup:

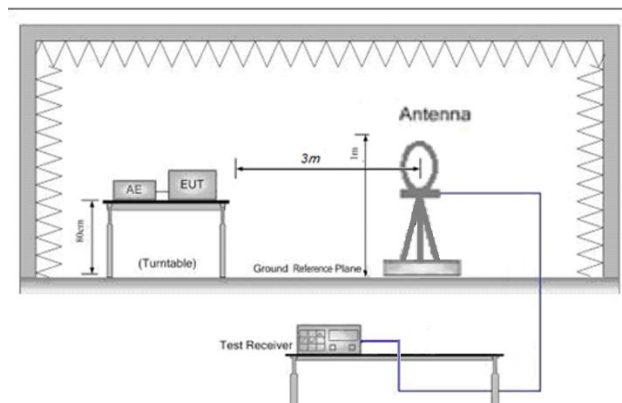


Figure 1. 9kHz to 30MHz

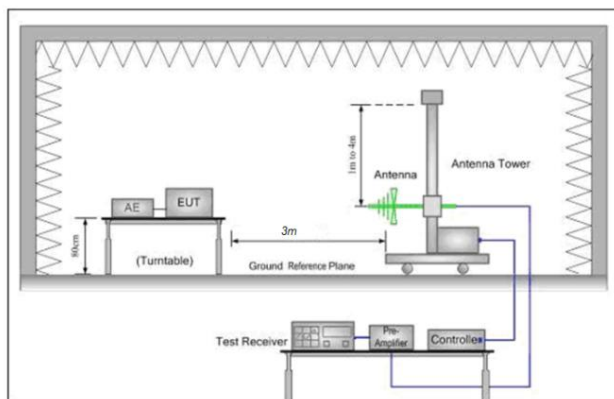


Figure 1. 30MHz to 1GHz

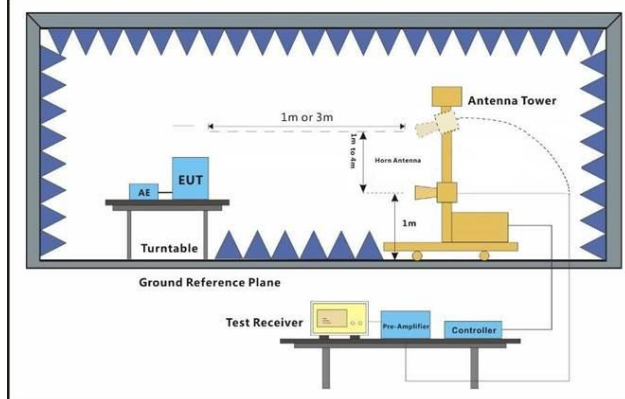


Figure 2. Above 1 GHz

#### Test Procedure:

- For below 1GHz test, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- For above 1GHz test, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation. (Distance from antenna to EUT is 1m for measurements >18GHz).
- The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

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	<p>e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.</p> <p>f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</p> <p>g. Test the EUT in the outermost channels.</p> <p>h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is worse case.</p> <p>i. Repeat above procedures until all frequencies measured was complete.</p> <p>j. The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported</p> <p>k. The disturbance above 18GHz was very low, and the harmonics were the highest point could be found when testing, so only the harmonics had been displayed.</p> <p>l. At a measurement distance of 1 meter the limit line was increased by <math>20 \cdot \text{LOG}(3/1) = 9.54 \text{ dB}</math>.</p>
Test Configuration:	<p>Measurements below 30MHz</p> <ul style="list-style-type: none"> <li>• RBW = 10 kHz</li> <li>• VBW = 30 kHz</li> <li>• Detector = Peak &amp; Average &amp; Quasi-peak</li> <li>• Trace mode = max hold</li> </ul> <p>Measurements Below 1000MHz</p> <ul style="list-style-type: none"> <li>• RBW = 120 kHz</li> <li>• VBW = 300 kHz</li> <li>• Detector = Quasi-peak</li> <li>• Trace mode = max hold</li> </ul> <p>Peak Measurements Above 1000 MHz</p> <ul style="list-style-type: none"> <li>• RBW = 1 MHz</li> <li>• VBW <math>\geq 3 \text{ MHz}</math></li> <li>• Detector = Peak</li> <li>• Sweep time = auto</li> <li>• Trace mode = max hold</li> </ul> <p>Average Measurements Above 1000MHz</p> <ul style="list-style-type: none"> <li>• RBW = 1 MHz</li> <li>• VBW = 10Hz, when duty cycle is no less than 98 percent.</li> <li>• VBW <math>\geq 1/T</math>, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.</li> </ul>
Exploratory Test Mode:	<p>Transmitting with all kind of modulations, data rates.</p> <p>Charge + Transmitting mode.</p>
Final Test Mode:	<p>Refer to section 3.7 for details.</p> <p>For below 1GHz part, through pre-scan all channels, but only the worst case is recorded in the report.</p>
Instruments Used:	<p>Refer to section 6 for details.</p>



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Test Results:	Pass
The detailed test data see: <b>Appendix</b>	



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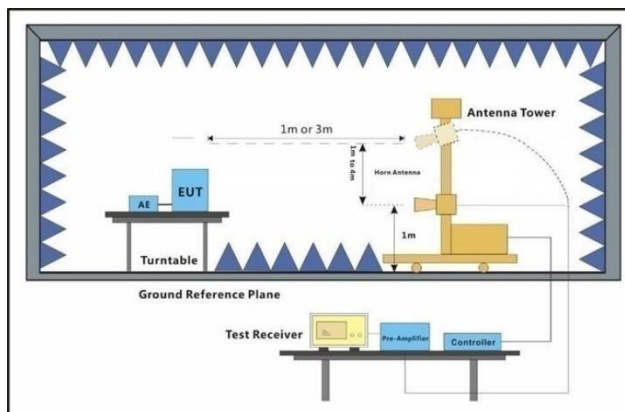
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### 4.9 Restricted bands around fundamental frequency

Test Requirement:	47 CFR Part 15 Section 15.205/15.209/15.407(b)		
Test Method:	ANSI C63.10-2013 Section 12.7		
Test Site:	Measurement Distance: 3m (Semi-Anechoic Chamber)		
Limit:	Frequency	Limit (dBuV/m)	Remark
	30MHz-88MHz	40.0	Quasi-peak
	88MHz-216MHz	43.5	Quasi-peak
	216MHz-960MHz	46.0	Quasi-peak
	960MHz-1GHz	54.0	Quasi-peak
	Above 1GHz	54.0	Average Value
		74.0	Peak Value

#### Test Setup:



#### Test Procedure:

- The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- Place a marker at the end of the restricted band closest to the transmit frequency to show compliance. Also measure any emissions in the restricted bands. Save the spectrum analyzer plot. Repeat for each power and modulation for lowest and highest channel
- Test the EUT in the outermost channels.

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	<p>h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the X axis positioning which it is worse case.</p> <p>i. Repeat above procedures until all frequencies measured was complete.</p>
Test Configuration:	<p>Measurements Below 1000MHz</p> <ul style="list-style-type: none"> <li>• RBW = 120 kHz</li> <li>• VBW = 300 kHz</li> <li>• Detector = Quasi-peak</li> <li>• Trace mode = max hold</li> </ul> <p>Peak Measurements Above 1000 MHz</p> <ul style="list-style-type: none"> <li>• RBW = 1 MHz</li> <li>• VBW <math>\geq</math> 3 MHz</li> <li>• Detector = Peak</li> <li>• Sweep time = auto</li> <li>• Trace mode = max hold</li> </ul> <p>Average Measurements Above 1000MHz</p> <ul style="list-style-type: none"> <li>• RBW = 1 MHz</li> <li>• VBW = 10Hz, when duty cycle is no less than 98 percent.</li> <li>• VBW <math>\geq</math> 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.</li> </ul>
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates. Charge + Transmitting mode.
Final Test Mode:	Refer to section 3.7 for details.
Instruments Used:	Refer to section 6 for details.
Test Results:	Pass
The detailed test data see: <b>Appendix</b>	



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## 5 Measurement Uncertainty (95% confidence levels, k=2)

No.	Item	Measurement Uncertainty
1	Total RF power, conducted	$\pm 0.54\text{dB}$
2	RF power density, conducted	$\pm 1.03\text{dB}$
3	Spurious emissions, conducted	$\pm 0.54\text{dB}$
4	Radio Frequency	$\pm 1.0\%$
5	Duty Cycle	$\pm 0.37\%$
6	Occupied Bandwidth	$\pm 1.0\%$
7	Radiated Emission	$\pm 3.13\text{dB}$ (9k to 30MHz)
		$\pm 4.88\text{dB}$ (30M to 1GHz)
		$\pm 4.75\text{dB}$ (1GHz to 18GHz)
		$\pm 4.77\text{dB}$ (Above 18GHz)

Remark:

The  $U_{\text{lab}}$  (lab Uncertainty) is less than  $U_{\text{CISPR/ETSI}}$  (CISPR/ETSI Uncertainty), so the test results

- compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;
- non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.



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## 6 Equipment List

RF Test Equipment					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy/mm/dd)	Cal.Due date (yyyy/mm/dd)
Shielding Room	Brilliant-emc	N/A	SUWI-04-01-06	2021/05/08	2024/05/07
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-07	2023/02/06	2024/02/05
Measurement Software	Tonscend	JS1120-3 Test System V 3.3.20	SUWI-02-09-09	NCR	NCR
Signal Analyzer	ROHDE& SCHWARZ	FSW43	SUWI-01-02-04	2023/05/11	2024/05/10
Temperature Chamber	ESPEC	SU-242	SUWI-01-13-01	2023/02/06	2024/02/05
DC Power Supply	HYELEC	HY3005B	SUWI-01-18-01	2023/02/06	2024/02/05
Power meter	Anritsu	ML2495A	SUWI-01-31-01	2022/11/23	2023/11/22
Pulse power sensor	Anritsu	MA2411B	SUWI-01-32-01	2022/11/23	2023/11/22



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RSE Test System					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy/mm/dd)	Cal.Due date (yyyy/mm/dd)
Semi-Anechoic Chamber	Brilliant-emc	N/A	SUWI-04-02-02	2021/11/25	2024/11/24
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-13	2023/02/07	2024/02/06
Signal Analyzer	ROHDE&SCHWARZ	FSW43	SUWI-01-02-04	2023/05/11	2024/05/10
Signal Analyzer	KEYSIGHT	N9020A	SUWI-01-02-06	2022/11/23	2023/11/22
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2023/02/08	2024/02/07
Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	VULB 9168	SUWI-01-11-04	2021/12/05	2023/12/04
Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	BBHA 9120D	SUWI-01-11-05	2021/12/05	2023/12/04
Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	BBHA 9170	SUWI-01-11-03	2023/05/12	2024/05/11
Active Loop Antenna	SCHWRZBECK MESS-ELEKTRONIK	FMZB 1519B	SUWI-01-21-01	2023/05/13	2024/05/12
Amplifier	Tonscend	TAP9K3G32	SUWI-01-14-06	2022/11/23	2023/11/22
Amplifier	Tonscend	TAP01018050	SUWI-01-14-04	2022/11/23	2023/11/22
Amplifier	Tonscend	TAP30M7G30	SUWI-01-14-05	2022/11/23	2023/11/22
Measurement Software	Tonscend	JS32-RE V4.0.0.0	SUWI-02-09-04	NCR	NCR



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## 7 Photographs - Setup Photos

Refer to Appendix A.2 WLAN Setup Photos.



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# Appendix



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## Emission Bandwidth Test Result

TestMode	Antenna	Frequency[MHz]	26dB EBW [MHz]	FL[MHz]	FH[MHz]	Verdict
11a	Ant1	5745	19.120	5735.200	5754.320	For Report Purpose
11a	Ant2	5745	18.440	5735.840	5754.280	
11a	Ant1	5785	18.360	5775.800	5794.160	
11a	Ant2	5785	18.640	5775.560	5794.200	
11a	Ant1	5825	18.760	5815.640	5834.400	
11a	Ant2	5825	20.200	5815.760	5835.960	



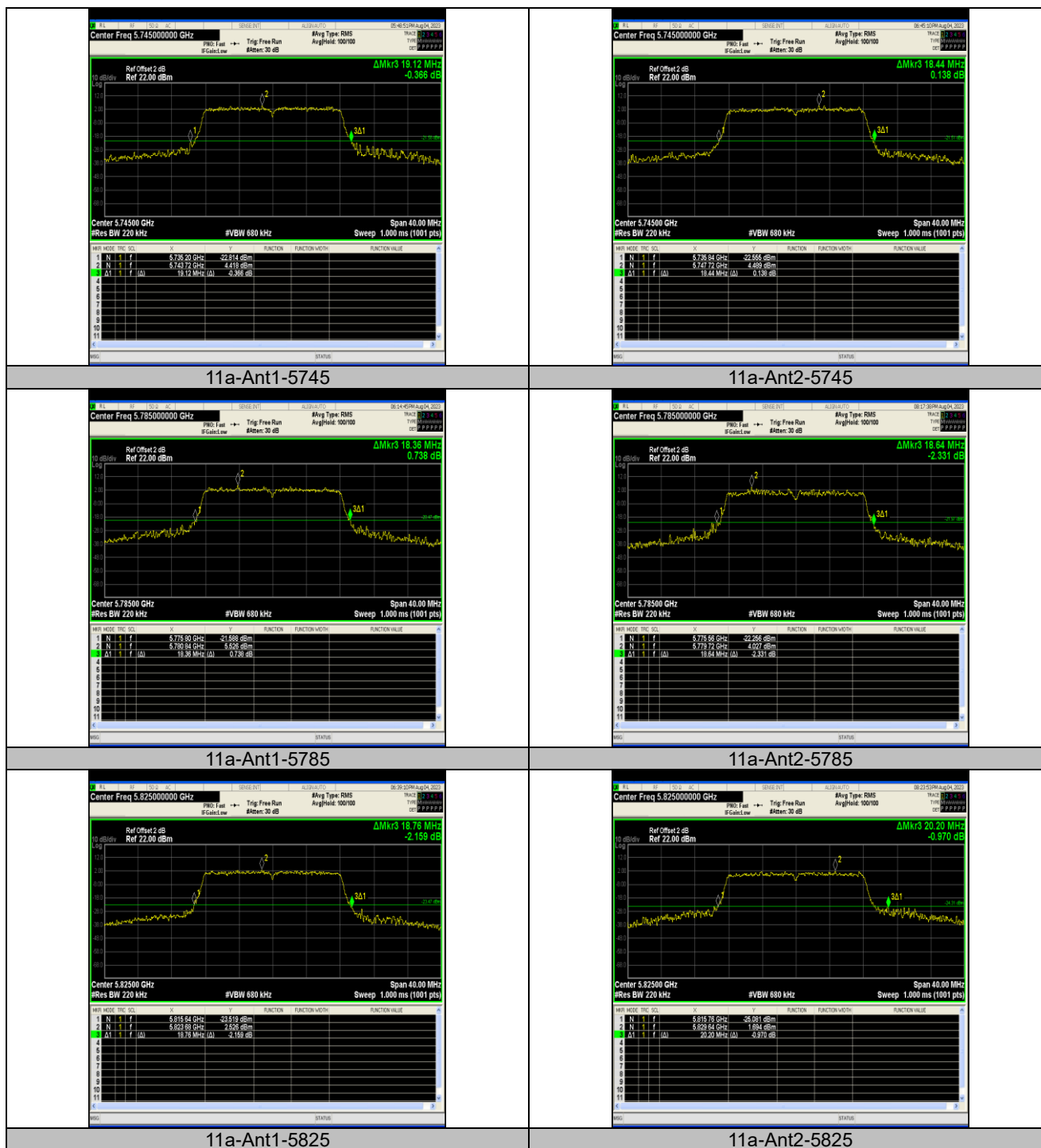
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### Test Graphs



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## Occupied channel bandwidth Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Verdict
11a	Ant1	5745	16.527	5736.7150	5753.2420	For Report Purpose
11a	Ant2	5745	16.531	5736.7298	5753.2608	
11a	Ant1	5785	16.506	5776.6978	5793.2038	
11a	Ant2	5785	16.550	5776.6804	5793.2304	
11a	Ant1	5825	16.505	5816.7085	5833.2135	
11a	Ant2	5825	16.578	5816.7113	5833.2893	



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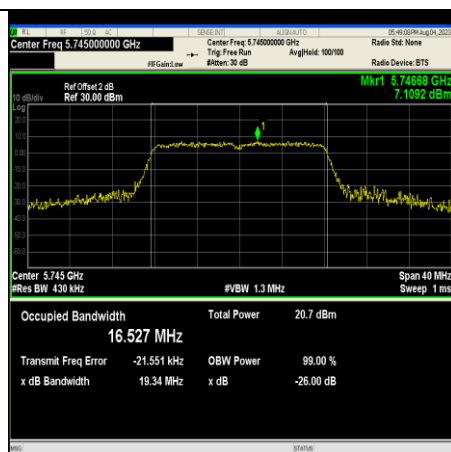
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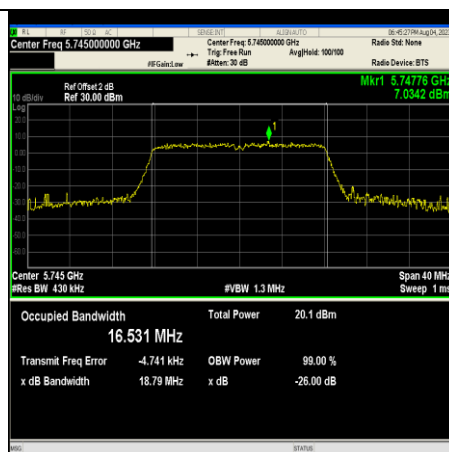
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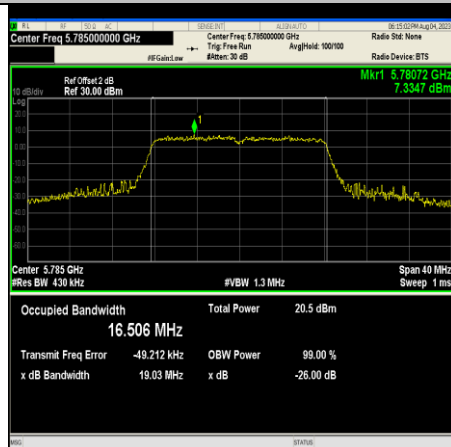
## Test Graphs



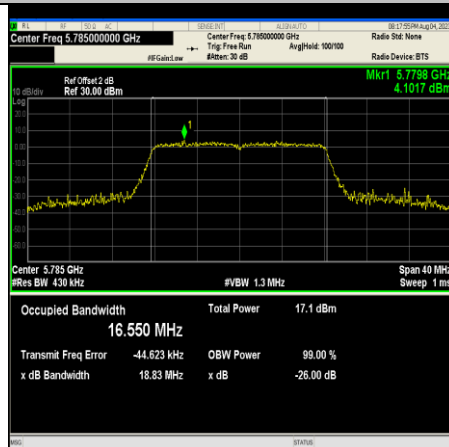
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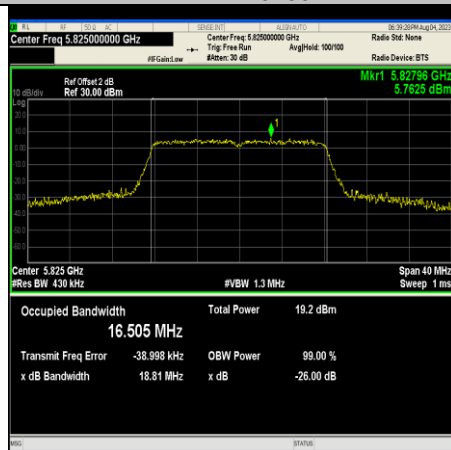
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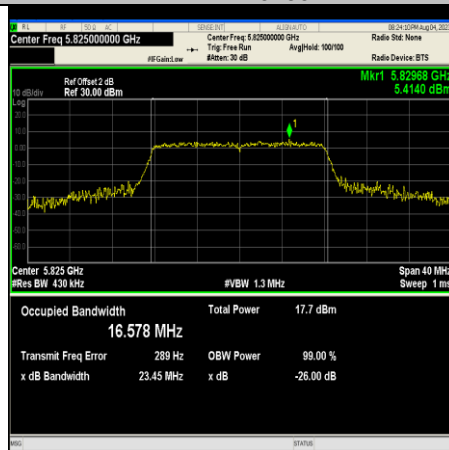
11a-Ant1-5785



11a-Ant2-5785



11a-Ant1-5825



11a-Ant2-5825



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**6dB emission bandwidth  
Test Result B4**

TestMode	Antenna	Frequency[MHz]	6dB EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11a	Ant1	5745	16.400	5736.760	5753.160	≥0.5	PASS
11a	Ant2	5745	16.400	5736.760	5753.160	≥0.5	PASS
11a	Ant1	5785	16.400	5776.760	5793.160	≥0.5	PASS
11a	Ant2	5785	16.520	5776.720	5793.240	≥0.5	PASS
11a	Ant1	5825	16.400	5816.760	5833.160	≥0.5	PASS
11a	Ant2	5825	16.400	5816.760	5833.160	≥0.5	PASS



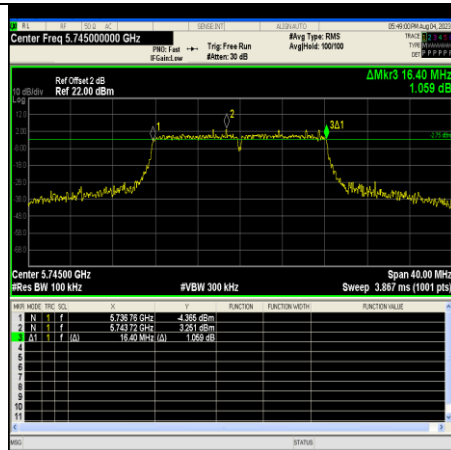
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### Test Graphs B4



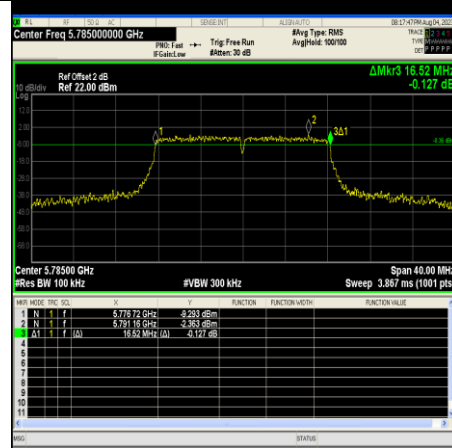
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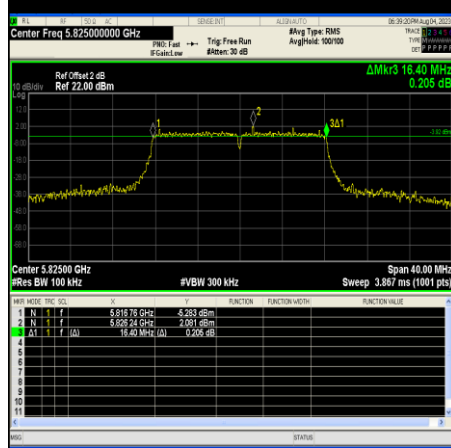
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11a-Ant1-5785



11a-Ant2-5785



11a-Ant1-5825



11a-Ant2-5825



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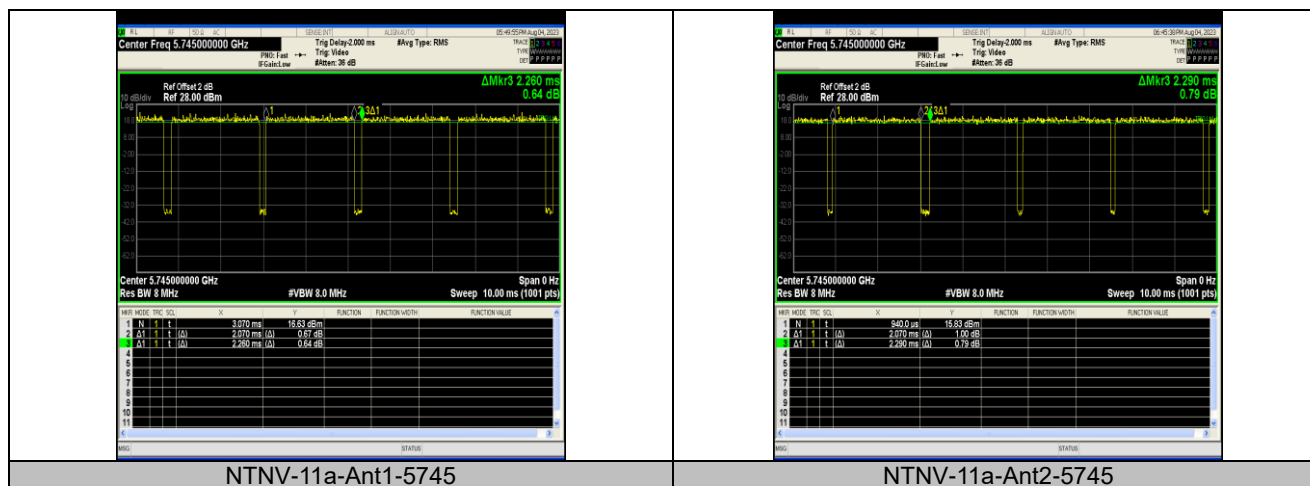
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## Duty Cycle Test Result

TestMode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]
11a	Ant1	5745	2.07	2.26	91.59
11a	Ant2	5745	2.07	2.29	90.39

## Test Graphs



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## Maximum conducted output power Test Result Channel Power

TestMode	Antenna	Frequency[MHz]	Result [dBm]	Limit [dBm]	Verdict
11a	Ant1	5745	14.76	≤30.00	PASS
11a	Ant2	5745	14.32	≤30.00	PASS
11a	Ant1	5785	14.75	≤30.00	PASS
11a	Ant2	5785	14.92	≤30.00	PASS
11a	Ant1	5825	14.06	≤30.00	PASS
11a	Ant2	5825	14.07	≤30.00	PASS



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## Maximum power spectral density Test Result

TestMode	Antenna	Frequency[MHz]	Result	Limit	Verdict
11a	Ant1	5745	0.83	≤30.00	PASS
11a	Ant2	5745	0.46	≤30.00	PASS
11a	Ant1	5785	1.04	≤30.00	PASS
11a	Ant2	5785	0.58	≤30.00	PASS
11a	Ant1	5825	-0.28	≤30.00	PASS
11a	Ant2	5825	-0.1	≤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.



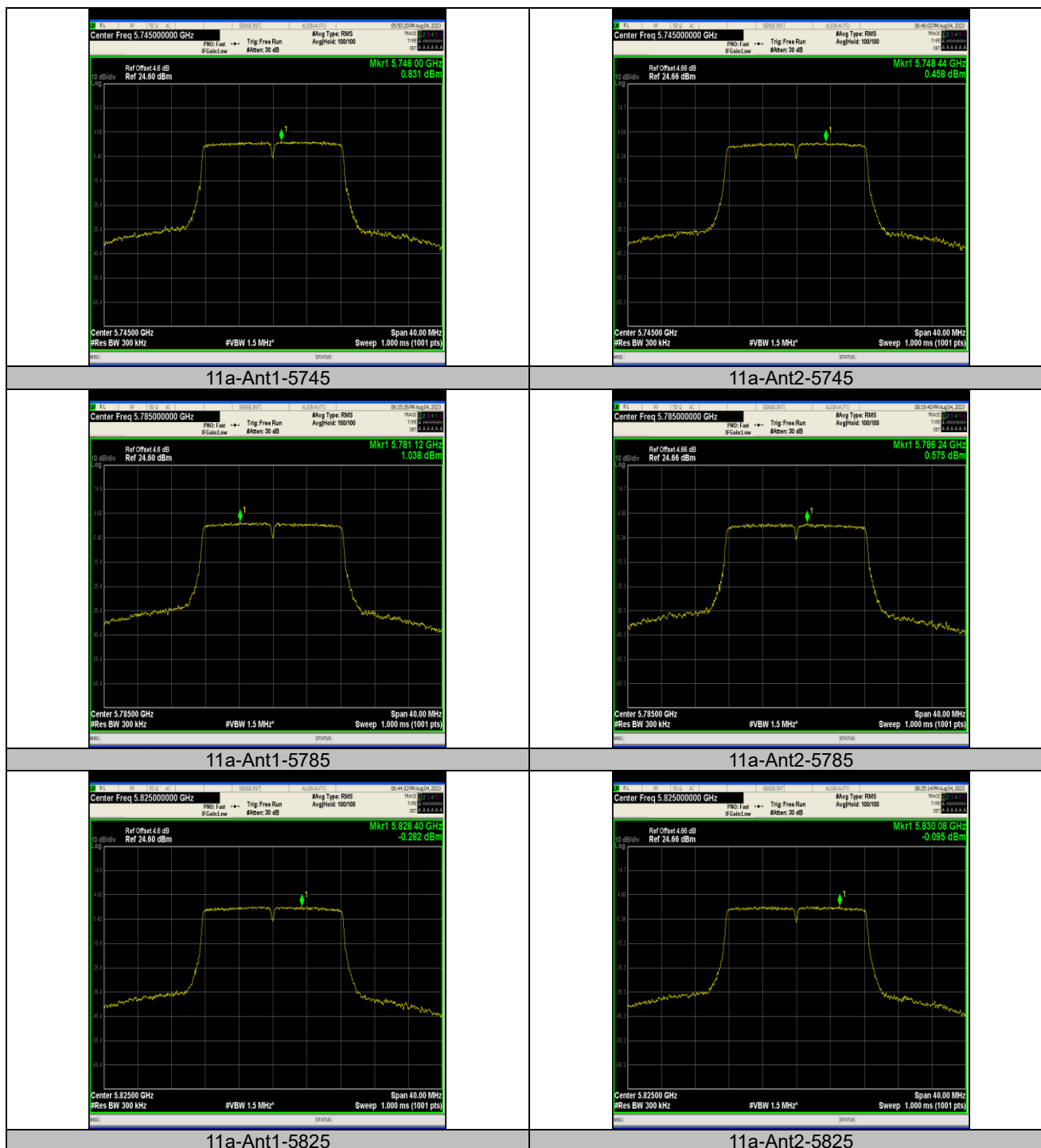
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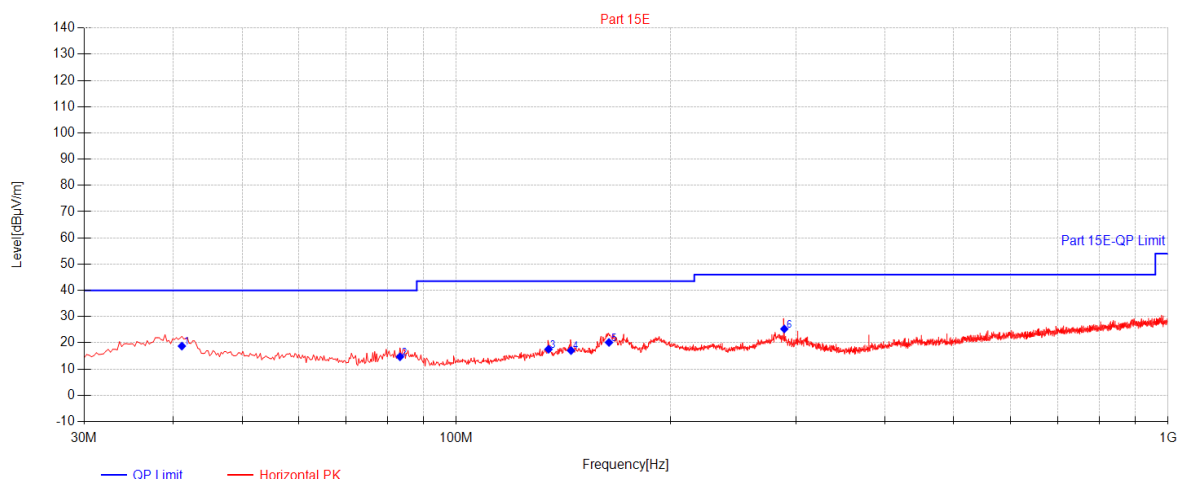
### Test Graphs



## Radiated Spurious Emissions

## Radiated emission below 1GHz

## Worst case Mode: 802.11a\_Channel 165



## Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	41.155	41.02	-36.25	13.97	18.74	40.00	21.26	162	141	Horizontal
2	83.35	41.23	-35.90	9.34	14.67	40.00	25.33	135	293	Horizontal
3	134.76	40.01	-35.60	13.13	17.55	43.50	25.95	145	121	Horizontal
4	144.945	38.77	-35.39	13.67	17.04	43.50	26.46	185	132	Horizontal
5	163.86	41.16	-35.25	14.24	20.15	43.50	23.35	126	360	Horizontal
6	288.99	46.85	-34.10	12.53	25.28	46.00	20.72	199	273	Horizontal



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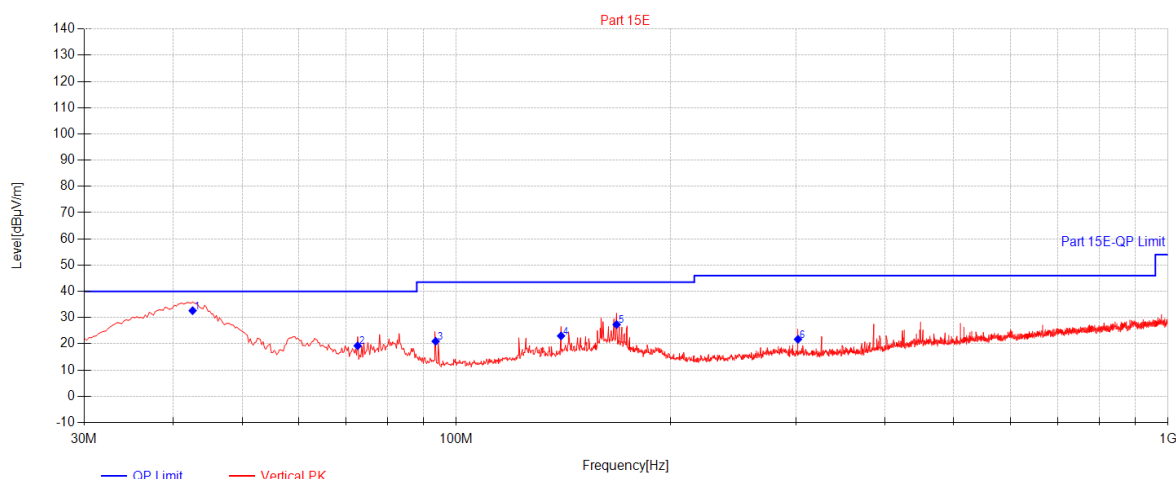
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## Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	42.61	55.02	-36.24	13.85	32.63	40.00	7.37	125	183	Vertical
2	72.68	45.11	-36.28	10.41	19.24	40.00	20.76	186	305	Vertical
3	93.535	47.44	-36.19	9.69	20.94	43.50	22.56	142	255	Vertical
4	140.3375	45.03	-35.54	13.52	23.01	43.50	20.49	153	213	Vertical
5	167.9825	48.16	-35.18	14.36	27.34	43.50	16.16	219	325	Vertical
6	302.085	43.20	-34.32	12.84	21.73	46.00	24.27	178	133	Vertical

## Remark:

- The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier gain. The basic equation with a sample calculation is as follows:  
Value = Reading(dBμV) + AF(dB/m) + Factor(dB):  
AF = Antenna Factor(dB/m)  
Factor = Cable Factor(dB) - Preamplifier gain(dB)  
Margin = Limit(dBμV/m) – Value(dBμV/m)
- All channels have been tested, but only the worst case data displayed in this report.



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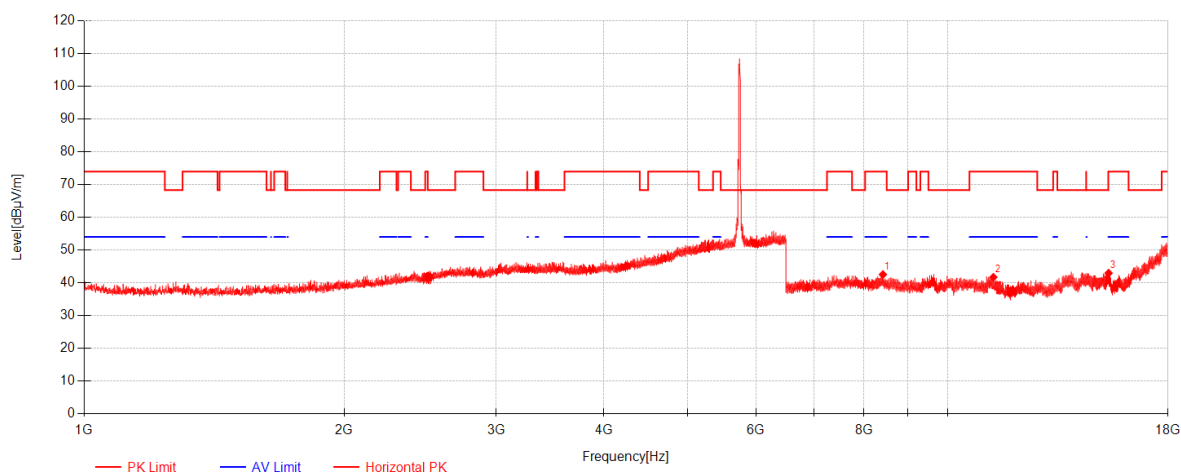
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## Transmitter emission Above 1GHz

## 802.11a\_Channel 149 ANT1



## Data List

NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	8414.2708	47.36	36.59	-41.43	42.52	74.00	31.48	248	115	Horizontal
2	11296.9375	40.17	38.73	-37.21	41.69	74.00	32.31	175	336	Horizontal
3	15360.75	36.41	40.54	-34.01	42.95	74.00	31.05	156	312	Horizontal



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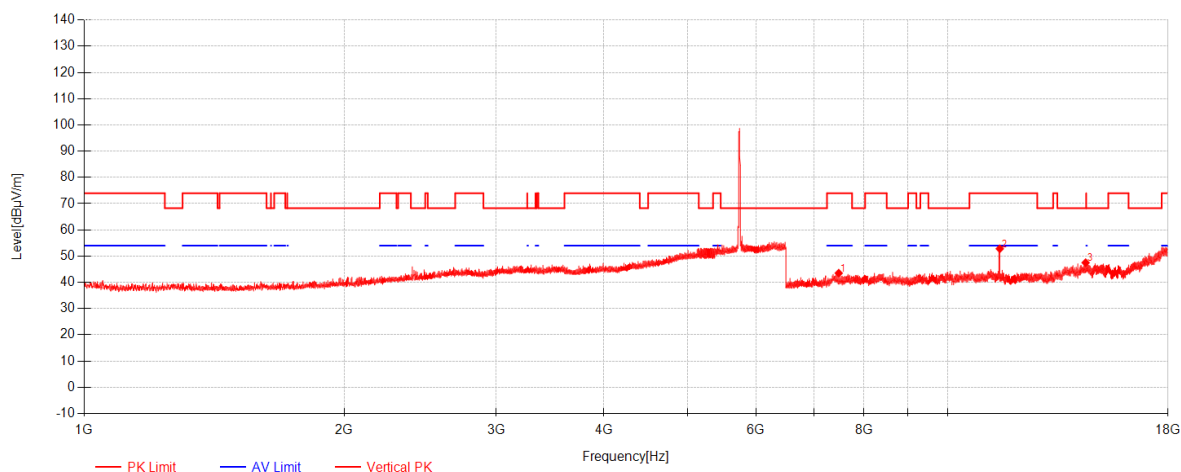


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## 802.11a\_Channel 149 ANT1



Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7479.8958	50.04	36.54	-43.09	43.49	74.00	30.51	175	336	Vertical
2	11491.4792	50.65	38.75	-36.60	52.80	74.00	21.20	142	163	Vertical
3	14448.4167	41.07	41.08	-34.67	47.48	68.30	20.82	168	163	Vertical



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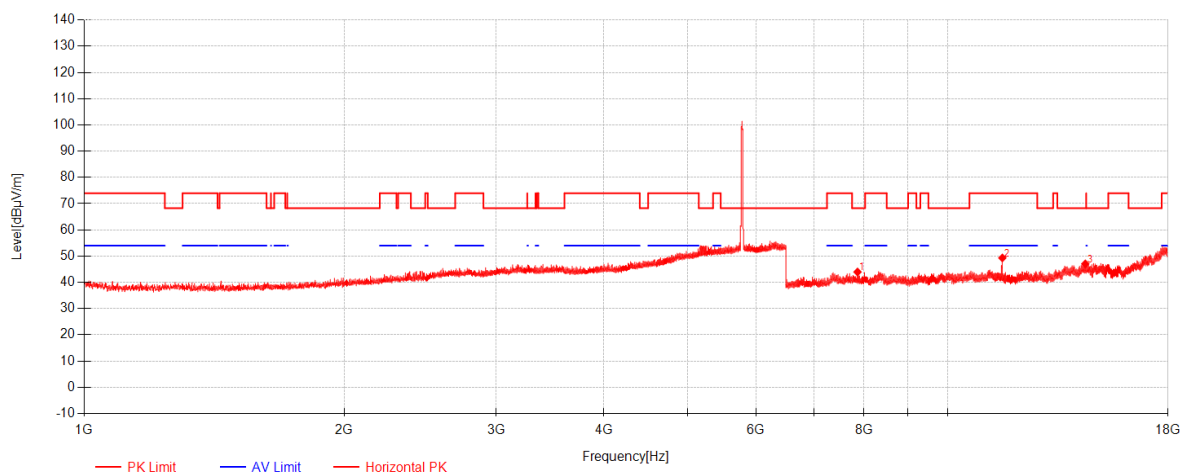
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## 802.11a\_Channel 157 ANT1



Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7864.6667	49.89	36.75	-42.68	43.95	68.30	24.35	244	164	Horizontal
2	11571.9792	47.40	38.76	-36.85	49.31	74.00	24.69	189	188	Horizontal
3	14435.4792	40.74	41.07	-34.78	47.04	68.30	21.26	176	164	Horizontal



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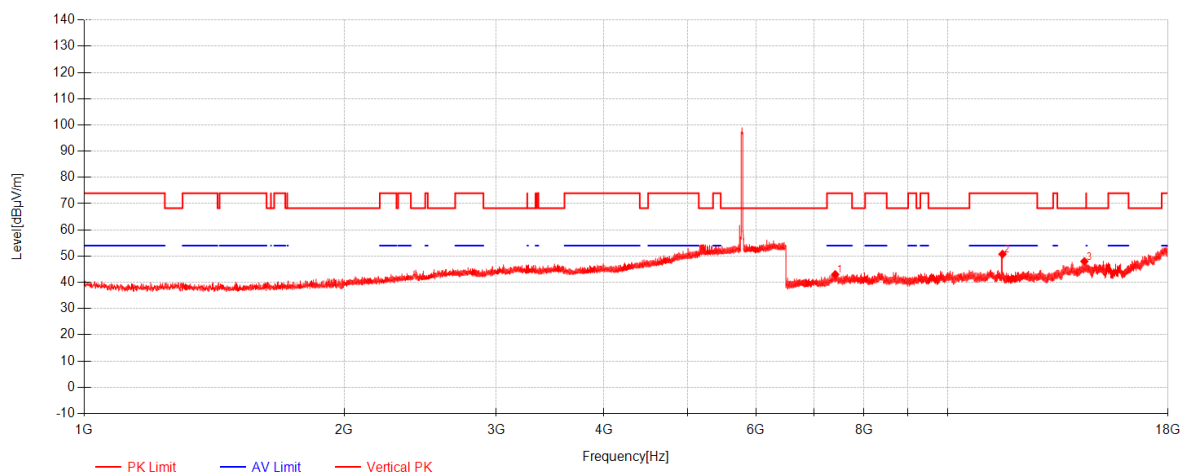
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## 802.11a\_Channel 157 ANT1



Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7409.9375	49.49	36.35	-42.83	43.01	74.00	30.99	255	306	Vertical
2	11574.8542	48.85	38.76	-36.86	50.75	74.00	23.25	140	236	Vertical
3	14400.9792	41.98	41.06	-35.07	47.97	68.30	20.33	163	306	Vertical



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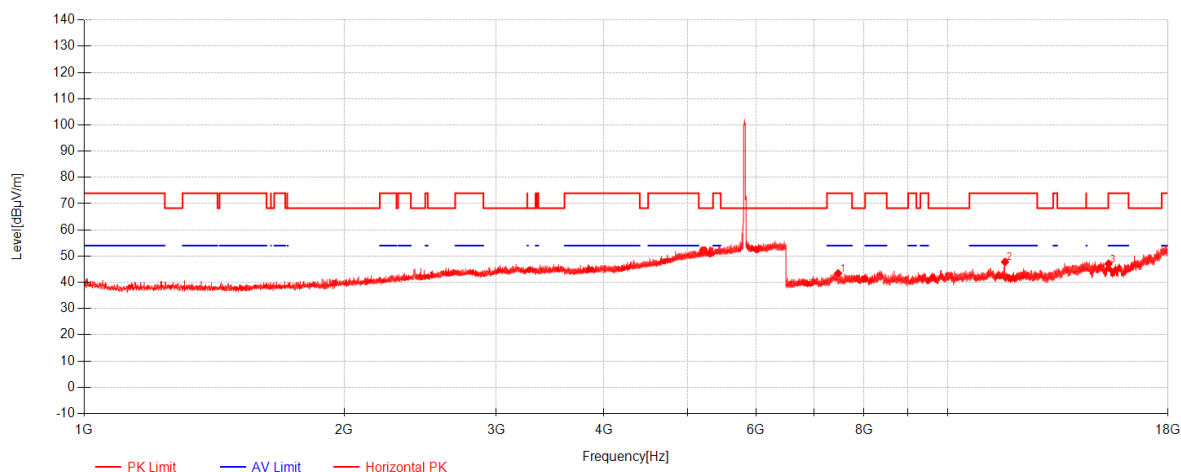
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## 802.11a\_Channel 165 ANT1



Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7467.4375	49.96	36.51	-43.05	43.42	74.00	30.58	155	213	Horizontal
2	11654.3958	45.52	38.77	-36.50	47.79	74.00	26.21	146	115	Horizontal
3	15359.3125	40.55	40.55	-34.00	47.09	74.00	26.91	172	40	Horizontal



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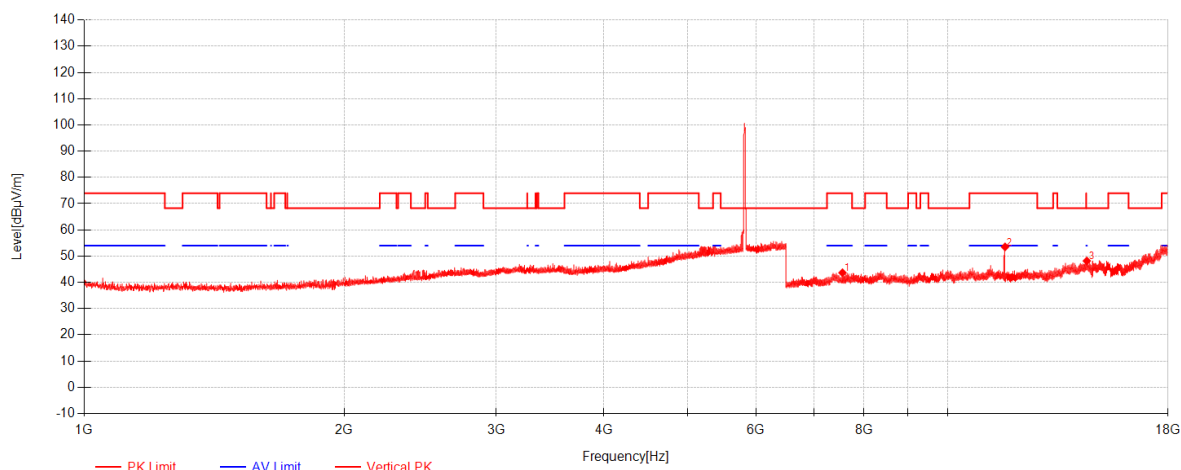
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## 802.11a\_Channel 165 ANT1



Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7554.6458	49.97	36.62	-42.94	43.66	74.00	30.34	211	263	Vertical
2	11655.3542	51.23	38.77	-36.49	53.51	74.00	20.49	142	187	Vertical
3	14493.9375	41.34	41.10	-34.28	48.16	74.00	25.84	136	336	Vertical



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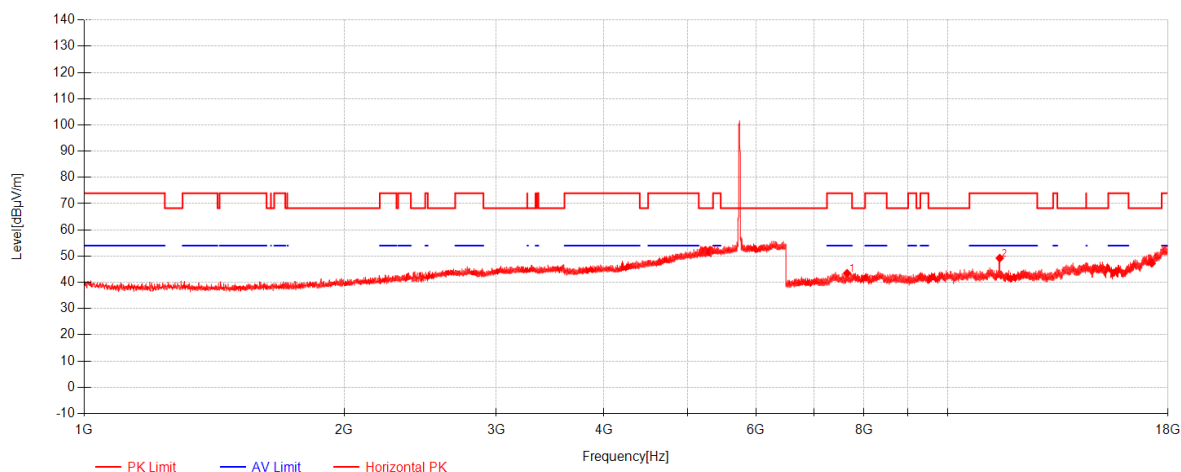


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## 802.11a\_Channel 149 ANT2



Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7647.6042	49.62	36.66	-42.84	43.44	74.00	30.56	213	70	Horizontal
2	11491	47.07	38.75	-36.60	49.22	74.00	24.78	145	190	Horizontal
3	17235.0000	38.85	43.36	-34.96	47.25	68.30	21.05	162	190	Horizontal



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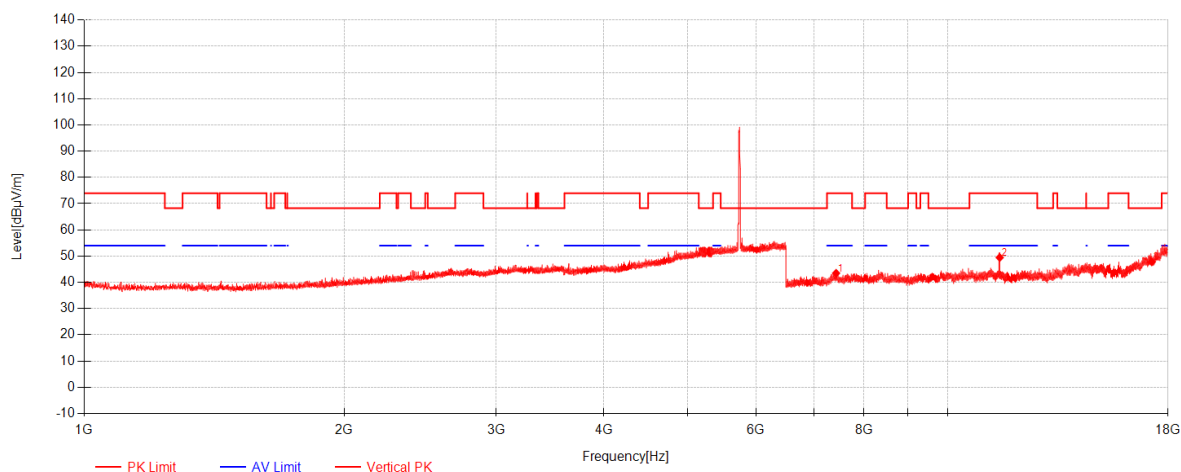
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## 802.11a\_Channel 149 ANT2



Data List										
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1	7427.6667	49.99	36.40	-42.90	43.49	74.00	30.51	145	0	Vertical
2	11490.0000	47.31	38.75	-36.61	49.45	74.00	24.55	169	166	Vertical
3	17235.0000	39.37	43.36	-34.96	47.77	68.30	20.53	192	190	Vertical



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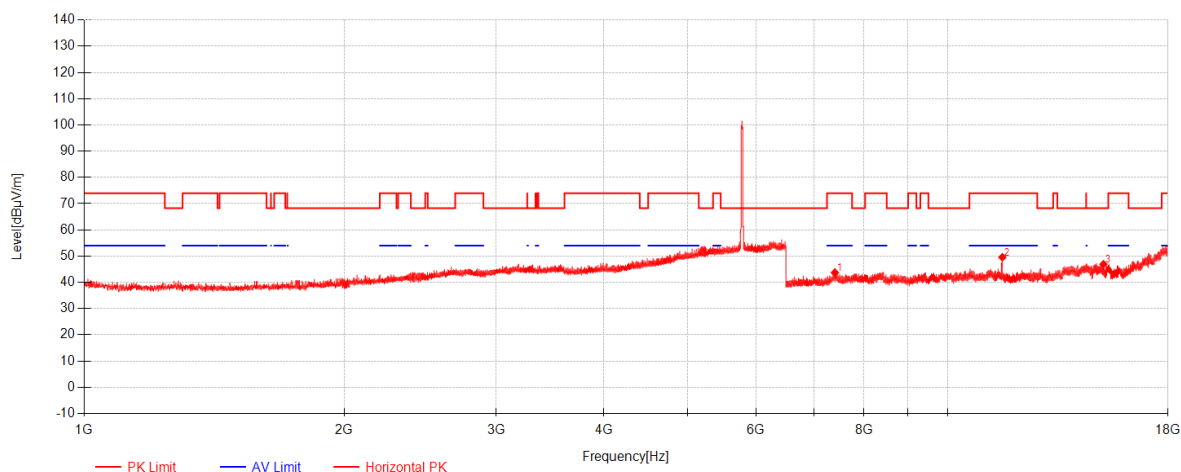
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## 802.11a\_Channel 157 ANT2



Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7403.2292	50.17	36.33	-42.80	43.70	74.00	30.30	244	216	Horizontal
2	11572.4583	47.65	38.76	-36.85	49.56	74.00	24.44	145	164	Horizontal
3	15151.8333	40.03	40.98	-34.11	46.90	68.30	21.40	189	0	Horizontal



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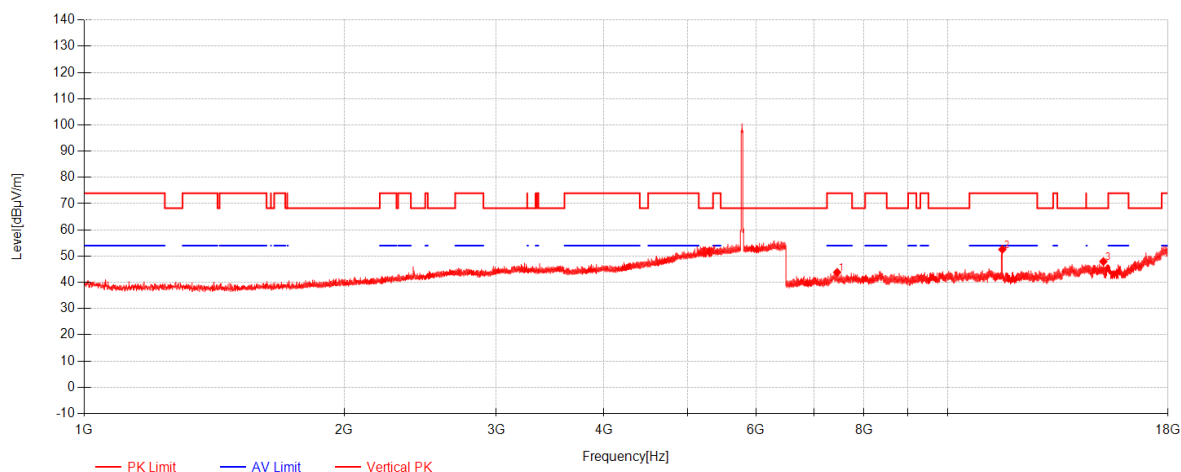
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## 802.11a\_Channel 157 ANT2



Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7448.2708	50.34	36.46	-42.97	43.82	74.00	30.18	244	142	Vertical
2	11571.5	50.65	38.76	-36.85	52.56	74.00	21.44	125	142	Vertical
3	15149.9167	41.08	40.99	-34.12	47.94	68.30	20.36	175	288	Vertical



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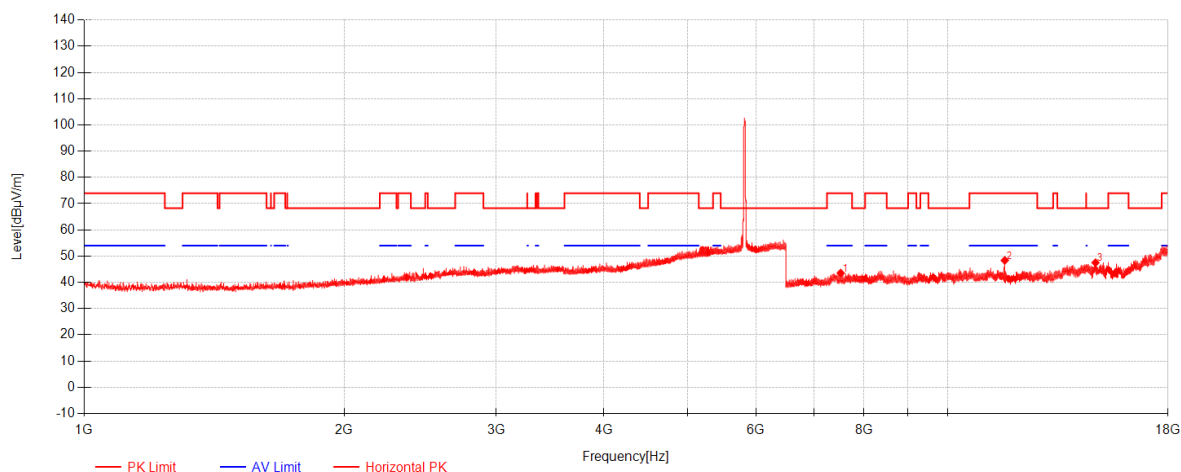
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## 802.11a\_Channel 165 ANT2



Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7518.7083	50.01	36.61	-43.09	43.53	74.00	30.47	241	336	Horizontal
2	11647.2083	46.16	38.76	-36.56	48.36	74.00	25.64	123	190	Horizontal
3	14834.1458	41.31	41.23	-35.04	47.50	68.30	20.80	196	287	Horizontal



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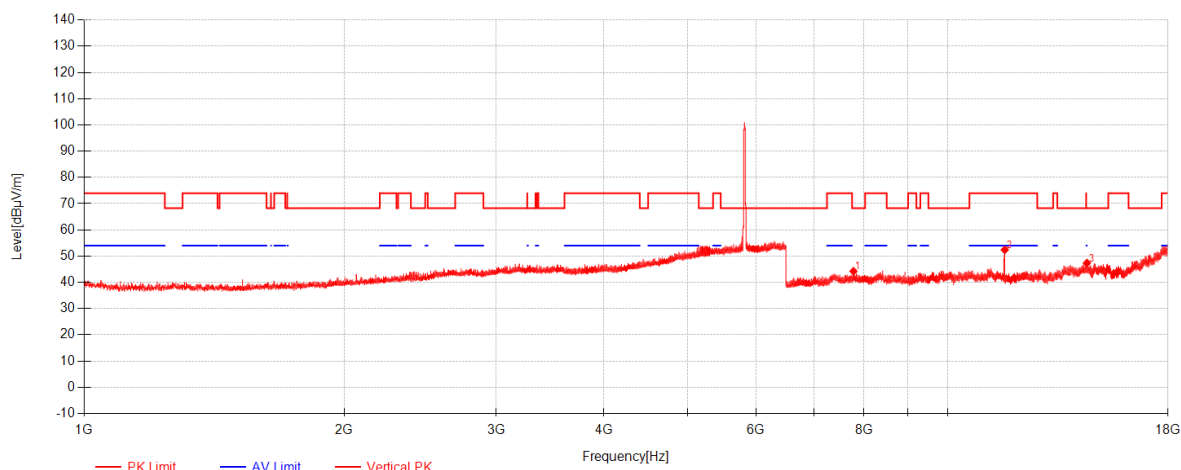


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## 802.11a\_Channel 165 ANT2



## Data List

NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7778.8958	50.19	36.71	-42.66	44.24	68.30	24.06	175	191	Vertical
2	11644.8125	50.20	38.76	-36.58	52.38	74.00	21.62	169	191	Vertical
3	14499.2083	40.50	41.10	-34.24	47.36	74.00	26.64	148	70	Vertical

## Remark:

- 1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier gain. The basic equation with a sample calculation is as follows:  
Level = Reading(dBμV) + AF(dB/m) + Factor(dB):  
AF = Antenna Factor(dB/m)  
Factor = Cable Factor(dB) - Preamplifier gain(dB)  
Margin = Limit(dBμV/m) – Level(dBμV/m)
- 2) All channels have been tested, but only the worst case data displayed in this report.
- 3) Both peak and average measured complies with the limit line, so test result is "PASS"



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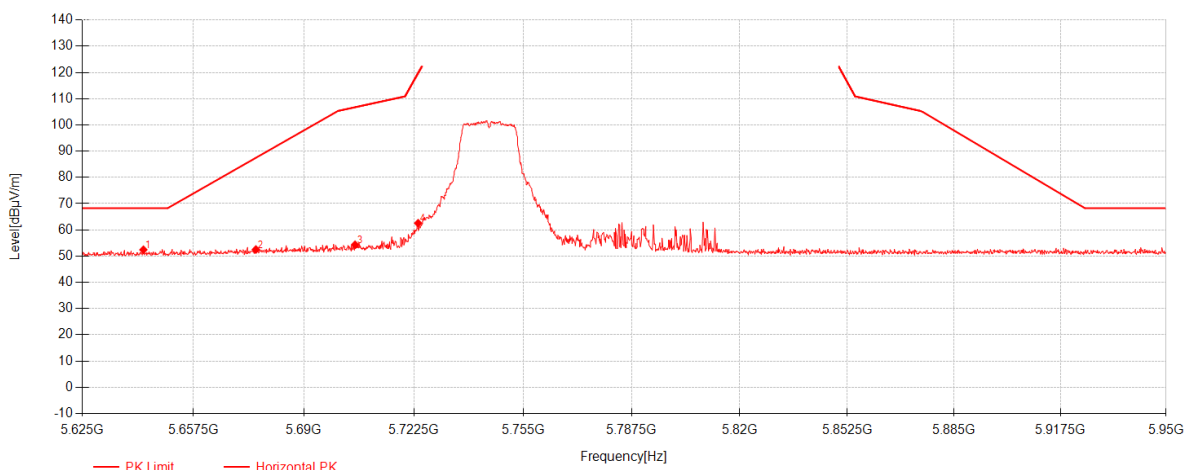
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## Restricted bands around fundamental frequency

## 802.11a\_Channel 149 ANT1



## Data List

NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5642.875	38.52	32.63	-18.72	52.42	68.30	15.88	222	198	Horizontal
2	5675.8625	38.60	32.64	-18.73	52.51	87.48	34.97	222	198	Horizontal
3	5705.1125	40.44	32.64	-18.75	54.34	106.73	52.39	222	198	Horizontal
4	5723.8	48.70	32.64	-18.80	62.54	119.56	57.02	222	198	Horizontal



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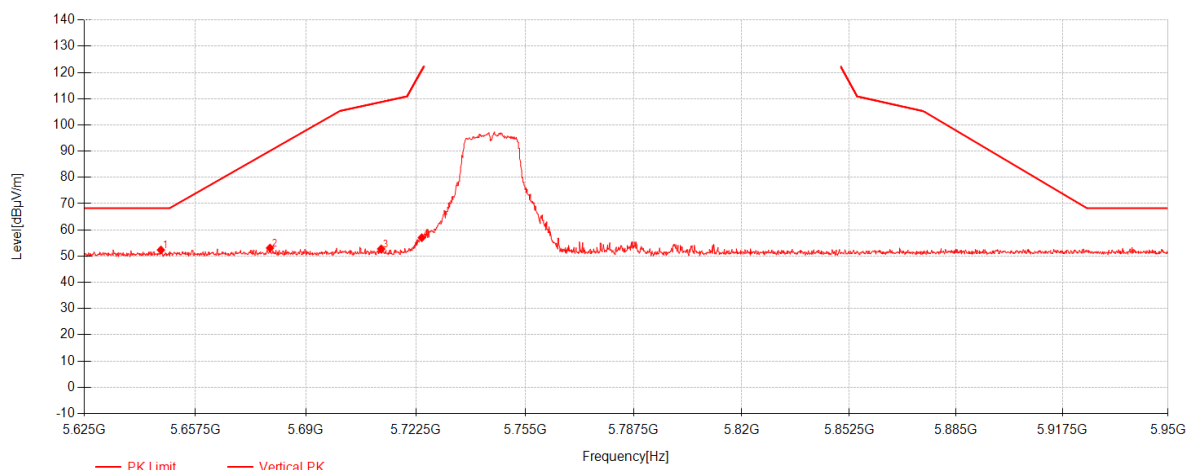
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## 802.11a\_Channel 149 ANT1



Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5647.425	38.44	32.63	-18.72	52.34	68.30	15.96	159	76	Vertical
2	5679.4375	39.17	32.64	-18.73	53.08	90.12	37.04	159	76	Vertical
3	5712.2625	38.86	32.64	-18.77	52.74	108.74	56.00	159	76	Vertical
4	5724.2875	43.19	32.64	-18.80	57.03	120.68	63.65	159	76	Vertical



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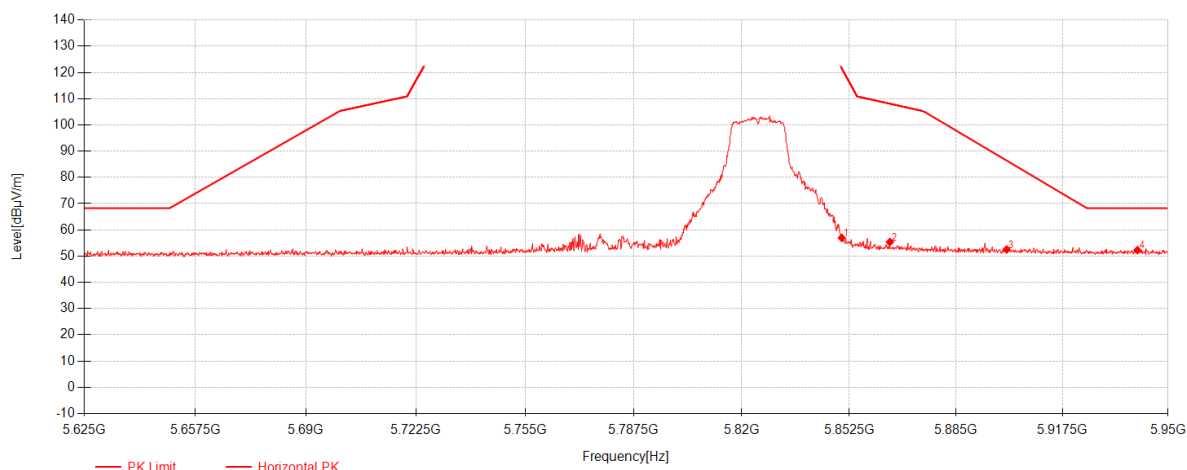
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## 802.11a\_Channel 165 ANT1



## Data List

NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5850.225	43.16	32.67	-18.88	56.95	121.79	64.84	203	85	Horizontal
2	5864.85	41.55	32.67	-18.84	55.38	108.14	52.76	203	85	Horizontal
3	5900.4375	38.60	32.68	-18.74	52.54	86.44	33.90	203	85	Horizontal
4	5940.575	38.41	32.69	-18.83	52.27	68.30	16.03	203	85	Horizontal



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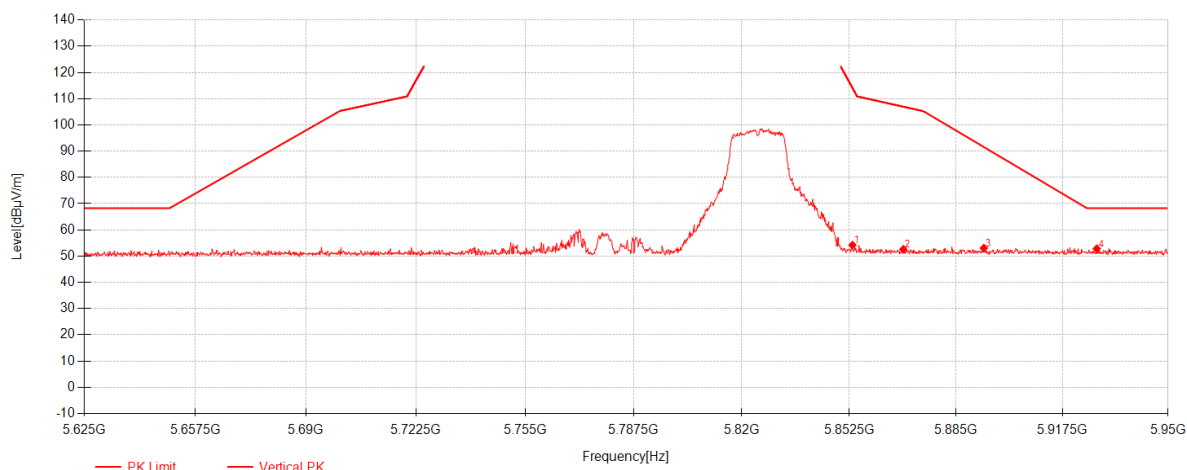
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## 802.11a\_Channel 165 ANT1



## Data List

NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5853.475	40.40	32.67	-18.87	54.20	114.38	60.18	219	190	Vertical
2	5868.9125	38.74	32.67	-18.83	52.58	107.00	54.42	219	190	Vertical
3	5893.45	39.14	32.68	-18.76	53.06	91.61	38.55	219	190	Vertical
4	5928.0625	38.93	32.69	-18.80	52.82	68.30	15.48	219	190	Vertical



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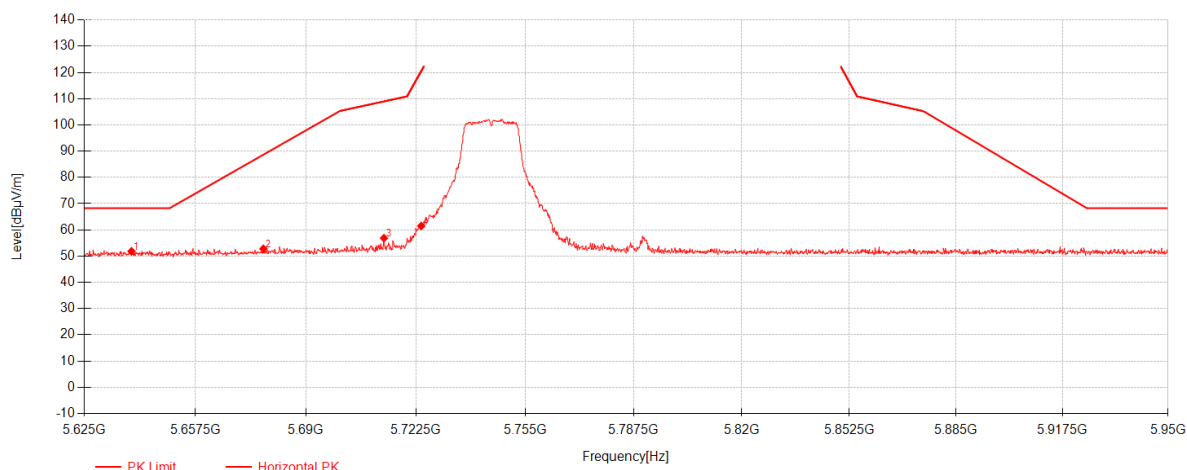


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## 802.11a\_Channel 149 ANT2



## Data List

NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5638.8125	37.93	32.63	-18.72	51.83	68.30	16.47	152	322	Horizontal
2	5677.4875	38.88	32.64	-18.73	52.79	88.68	35.89	152	322	Horizontal
3	5713.075	42.99	32.64	-18.77	56.86	108.96	52.10	152	322	Horizontal
4	5724.125	47.63	32.64	-18.80	61.47	120.31	58.84	152	322	Horizontal



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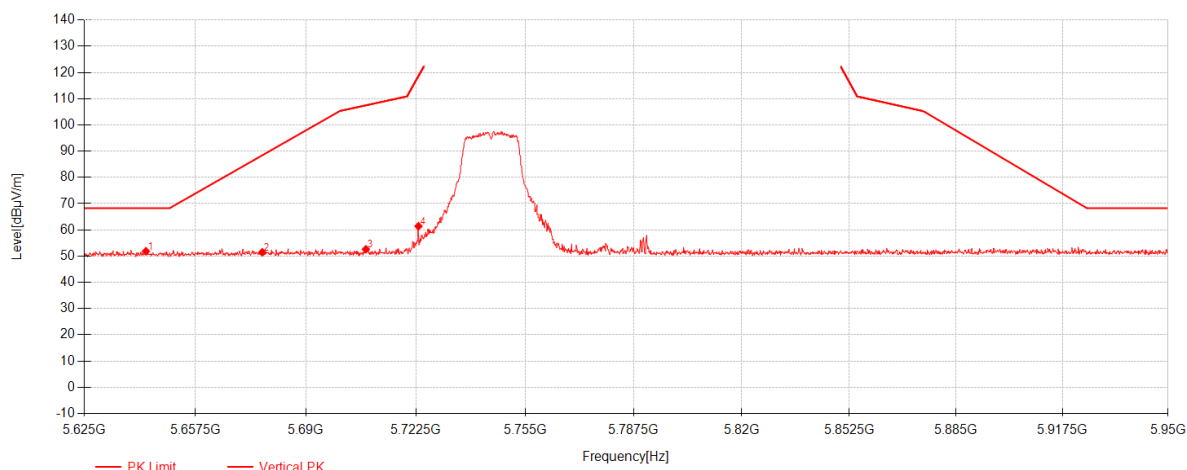
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## Data List

NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5643.0375	37.95	32.63	-18.72	51.85	68.30	16.45	186	182	Vertical
2	5677.1625	37.56	32.64	-18.73	51.47	88.44	36.97	186	182	Vertical
3	5707.7125	38.72	32.64	-18.75	52.61	107.46	54.85	186	182	Vertical
4	5723.3125	47.57	32.64	-18.80	61.41	118.45	57.04	186	182	Vertical



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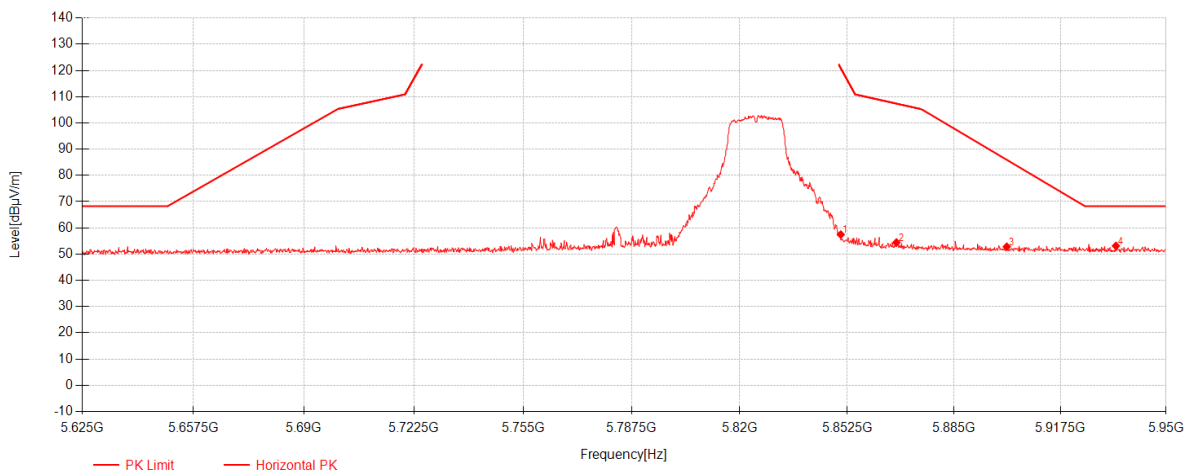
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## 802.11a\_Channel 165 ANT2



## Data List

NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5850.55	43.67	32.67	-18.88	57.46	121.05	63.59	166	123	Horizontal
2	5867.45	40.59	32.67	-18.83	54.43	107.41	52.98	166	123	Horizontal
3	5901.0875	38.86	32.68	-18.74	52.80	85.96	33.16	166	123	Horizontal
4	5934.5625	39.26	32.69	-18.81	53.13	68.30	15.17	166	123	Horizontal



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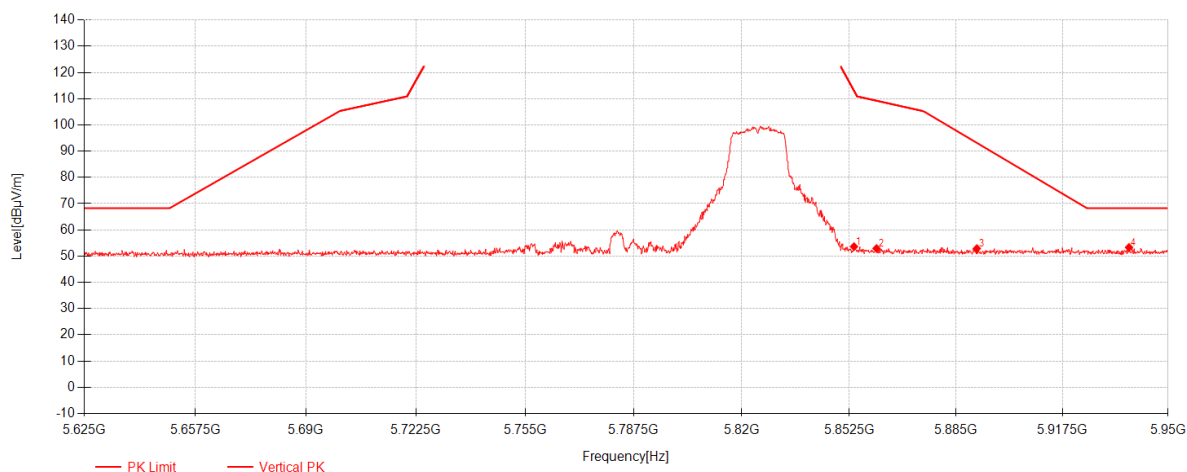
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## 802.11a\_Channel 165 ANT2



## Data List

NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5853.9625	39.83	32.67	-18.87	53.63	113.26	59.63	142	286	Vertical
2	5860.7875	39.10	32.67	-18.85	52.92	109.28	56.36	142	286	Vertical
3	5891.3375	38.99	32.68	-18.77	52.90	93.18	40.28	142	286	Vertical
4	5937.975	39.46	32.69	-18.82	53.33	68.30	14.97	142	286	Vertical

## Remark:

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

Level = Reading(dBμV) + AF(dB/m) + Factor(dB):

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier gain(dB)

Margin = Limit(dBμV/m) – Level(dBμV/m)

- 2) Both peak and average measured complies with the limit line, so test result is "PASS"

---End of Report---



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