

TEST REPORT

Applicant: Hunan GM innovation technology co.,Ltd

Address of Applicant: No.46 Jiefang East Road,Furong District,Changsha City,Hunan Province,China

Manufacturer/Factory: Hunan GM innovation technology co.,Ltd

Address of Manufacturer/Factory: No.46 Jiefang East Road,Furong District,Changsha City,Hunan Province,China

Equipment Under Test (EUT)

Product Name: Vaxis wireless video system

Model No.: Vaxis Atom 500 SDI TX, Vaxis Atom 600 SDI TX
Vaxis Atom 600 KV TX, Vaxis Atom 600 ZV TX
Vaxis Atom 600 DS SDI TX

Trade Mark: N/A

FCC ID: 2AJOF-ATOM500SDI-TX

Applicable standards: FCC CFR Title 47 Part 15 Subpart E Section 15.407

Date of sample receipt: September 27, 2020

Date of Test: September 27~ October 26, 2020

Date of report issue: October 28, 2020

Test Result : PASS *

* In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:



Robinson Luo

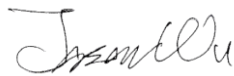
Laboratory Manager

This results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of compiler and approver.

2 Version

Version No.	Date	Description
00	2020-10-28	Original

Prepared By:

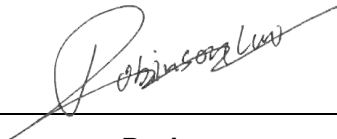


Date:

2020-10-28

Project Engineer

Check By:



Date:

2020-10-28

Reviewer

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4 Test Summary

Test Item	Section in CFR 47	Result
Antenna requirement	15.203	PASS
AC Power Line Conducted Emission	15.207	PASS
Peak Transmit Power	15.407(a)(1)	PASS
Power Spectral Density	15.407(a)(1)	PASS
Undesirable Emission	15.407(b)(6), 15.205/15.209	PASS
Radiated Emission	15.205/15.209	PASS
Band Edge	15.407(b)(1)	PASS
Frequency Stability	15.407(g)	PASS

Remark:

Pass: The EUT complies with the essential requirements in the standard.

4.1 Measurement Uncertainty

Test Item	Frequency Range	Measurement Uncertainty	Notes
Radiated Emission	30MHz-200MHz	3.8039dB	(1)
Radiated Emission	200MHz-1GHz	3.9679dB	(1)
Radiated Emission	1GHz-18GHz	4.29dB	(1)
Radiated Emission	18GHz-40GHz	3.30dB	(1)
AC Power Line Conducted Emission	0.15MHz ~ 30MHz	3.44dB	(1)

Note (1): The measurement uncertainty is for coverage factor of k=2 and a level of confidence of 95%.

5 General Information

5.1 General Description of EUT

Product Name:	Vaxis wireless video system		
Model No.:	Vaxis Atom 500 SDI TX, Vaxis Atom 600 SDI TX Vaxis Atom 600 KV TX, Vaxis Atom 600 ZV TX Vaxis Atom 600 DS SDI TX		
Serial No.:	N/A		
Hardware Version:	HDIP_SDI_TX		
Software Version:	1.1.5S		
Test sample(s) ID:	GTS202010000204-01		
Sample(s) Status:	Engineer sample		
Operation Frequency:	Band	Mode	Frequency Range(MHz)
	U-NII Band I	IEEE 802.11a	5150-5250
		IEEE 802.11n/ac 20MHz	5150-5250
Modulation technology:	OFDM(BPSK/QPSK/16QAM/64QAM)		
	MIMO: 802.11n		
	SISO: 802.11a,802.11n		
Antenna Type:	Integral Antenna		
Antenna gain:	Antenna number: 2 ANTA:2.5dBi ANTB:2.5dBi MIMO technology Directional gain=5.51		
Power supply:	DC 5V(Powered by adapter)		

Channel list for 802.11a/802.11n (HT20)							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
36	5180MHz	40	5200MHz	44	5220MHz	48	5240MHz

5.2 Test mode

Transmitting mode	Keep the EUT in transmitting with modulation..
<i>Remark: During the test, the test voltage was tuned from 85% to 115% of the nominal rated supply voltage, and found that the worst case was under the nominal rated supply condition. So the report just shows that condition's data.</i>	
We have verified the construction and function in typical operation. All the test modes were carried out with the EUT in transmitting operation, which was shown in this test report and defined as follows:	
Pre-scan all kind of data rate in lowest channel, and found the follow list which it was worst case.	
Mode	Data rate
802.11a (SISI mode)	6 Mbps
802.11n(HT20) (SISI mode)	MCS 0
802.11n(HT20) (MIMO mode)	MCS 8

5.3 Test Facility

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

● **FCC —Registration No.: 381383**

Global United Technology Services Co., Ltd., Shenzhen EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in files. Registration 381383.

● **IC —Registration No.: 9079A**

The 3m Semi-anechoic chamber of Global United Technology Services Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 9079A

● **NVLAP (LAB CODE:600179-0)**

Global United Technology Services Co., Ltd., is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP). LAB CODE:600179-0

5.4 Test Location

All tests were performed at:

Global United Technology Services Co., Ltd.

Address: No. 123-128, Tower A, Jinyuan Business Building, No.2, Laodong Industrial Zone, Xixiang Road, sBaoan District, Shenzhen, Guangdong, China 518102

Tel: 0755-27798480

Fax: 0755-27798960

5.5 Description of Support Units and test scenario

1. Notebook

Manufacturer: Lenovo

Model: ThinkPad E15

P/N: SL10W47275

S/N: PF-26227L 20/04

2. LED TV

Manufacturer: Hisense

Model: LED32K300

S/N: N/A

3. Power supply

Manufacturer: VIVO

Model: V18208-CN

Input: 100V-240V 50/60Hz 0.5A

Output: 5V/2A

4.USB Cable

Manufacturer: HUAWEI

Model: AP51

S/N: N/A

5. Describe the test scenario

The transmitter is powered by the USB cable (about one meter long, unshielded, without magnetic ring) of the power adapter, adjust the function keys to select different transmitting frequencies for transmission, and test

5.6 Deviation from Standards

None.

5.7 Abnormalities from Standard Conditions

None.

6 Test Instruments list

Radiated Emission:						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	3m Semi- Anechoic Chamber	ZhongYu Electron	9.2(L)*6.2(W)* 6.4(H)	GTS250	July. 02 2020	July. 01 2025
2	Control Room	ZhongYu Electron	6.2(L)*2.5(W)* 2.4(H)	GTS251	N/A	N/A
3	EMI Test Receiver	Rohde & Schwarz	ESU26	GTS203	June. 25 2020	June. 24 2021
4	BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	GTS214	June. 25 2020	June. 24 2021
5	Double -ridged waveguide horn	SCHWARZBECK MESS-ELEKTRONIK	BBHA 9120 D	GTS208	June. 25 2020	June. 24 2021
6	Horn Antenna	ETS-LINDGREN	3160	GTS217	June. 25 2020	June. 24 2021
7	EMI Test Software	AUDIX	E3	N/A	N/A	N/A
8	Coaxial Cable	GTS	N/A	GTS213	June. 25 2020	June. 24 2021
9	Coaxial Cable	GTS	N/A	GTS211	June. 25 2020	June. 24 2021
10	Coaxial cable	GTS	N/A	GTS210	June. 25 2020	June. 24 2021
11	Coaxial Cable	GTS	N/A	GTS212	June. 25 2020	June. 24 2021
12	Amplifier(100kHz-3GHz)	HP	8347A	GTS204	June. 25 2020	June. 24 2021
13	Amplifier(2GHz-20GHz)	HP	84722A	GTS206	June. 25 2020	June. 24 2021
14	Amplifier (18-26GHz)	Rohde & Schwarz	AFS33-18002 650-30-8P-44	GTS218	June. 25 2020	June. 24 2021
15	Band filter	Amindeon	82346	GTS219	June. 25 2020	June. 24 2021
16	Power Meter	Anritsu	ML2495A	GTS540	June. 25 2020	June. 24 2021
17	Power Sensor	Anritsu	MA2411B	GTS541	June. 25 2020	June. 24 2021
18	Wideband Radio Communication Tester	Rohde & Schwarz	CMW500	GTS575	June. 25 2020	June. 24 2021
19	Splitter	Agilent	11636B	GTS237	June. 25 2020	June. 24 2021
20	Loop Antenna	ZHINAN	ZN30900A	GTS534	June. 25 2020	June. 24 2021
21	Breitband hornantenne	SCHWARZBECK	BBHA 9170	GTS579	Oct. 18 2020	Oct. 17 2021
22	Amplifier	TDK	PA-02-02	GTS574	Oct. 18 2020	Oct. 17 2021
23	Amplifier	TDK	PA-02-03	GTS576	Oct. 18 2020	Oct. 17 2021
24	PSA Series Spectrum Analyzer	Rohde & Schwarz	FSP	GTS578	June. 25 2020	June. 24 2021

Conducted Emission						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	Shielding Room	ZhongYu Electron	7.3(L)x3.1(W)x2.9(H)	GTS252	May.15 2019	May.14 2022
2	EMI Test Receiver	R&S	ESCI 7	GTS552	June. 25 2020	June. 24 2021
3	Coaxial Switch	ANRITSU CORP	MP59B	GTS225	June. 25 2020	June. 24 2021
4	ENV216 2-L-V-NETZNACHB.DE	ROHDE&SCHWARZ	ENV216	GTS226	June. 25 2020	June. 24 2021
5	Coaxial Cable	GTS	N/A	GTS227	N/A	N/A
6	EMI Test Software	AUDIX	E3	N/A	N/A	N/A
7	Thermo meter	KTJ	TA328	GTS233	June. 25 2020	June. 24 2021
8	Absorbing clamp	Elektronik-Feinmechanik	MDS21	GTS229	June. 25 2020	June. 24 2021
9	ISN	SCHWARZBECK	NTFM 8158	GTD565	June. 25 2020	June. 24 2021

RF Conducted Test:						
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	MXA Signal Analyzer	Agilent	N9020A	GTS566	June. 25 2020	June. 24 2021
2	EMI Test Receiver	R&S	ESCI 7	GTS552	June. 25 2020	June. 24 2021
3	Spectrum Analyzer	Agilent	E4440A	GTS533	June. 25 2020	June. 24 2021
4	MXG vector Signal Generator	Agilent	N5182A	GTS567	June. 25 2020	June. 24 2021
5	ESG Analog Signal Generator	Agilent	E4428C	GTS568	June. 25 2020	June. 24 2021
6	USB RF Power Sensor	DARE	RPR3006W	GTS569	June. 25 2020	June. 24 2021
7	RF Switch Box	Shongyi	RFSW3003328	GTS571	June. 25 2020	June. 24 2021
8	Programmable Constant Temp & Humi Test Chamber	WEWON	WHTH-150L-40-880	GTS572	June. 25 2020	June. 24 2021

General used equipment:						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	Humidity/ Temperature Indicator	KTJ	TA328	GTS243	June. 25 2020	June. 24 2021
2	Barometer	ChangChun	DYM3	GTS255	June. 25 2020	June. 24 2021

7 Test results and Measurement Data

7.1 Antenna requirement:

Standard requirement:	FCC Part15 C Section 15.203
<i>15.203 requirement: An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.</i>	
E.U.T Antenna:	
<i>The antennas are integral antenna, the best case gain of the antennas are 2.5dBi, reference to the appendix II for details</i>	

7.2 Conducted Emissions

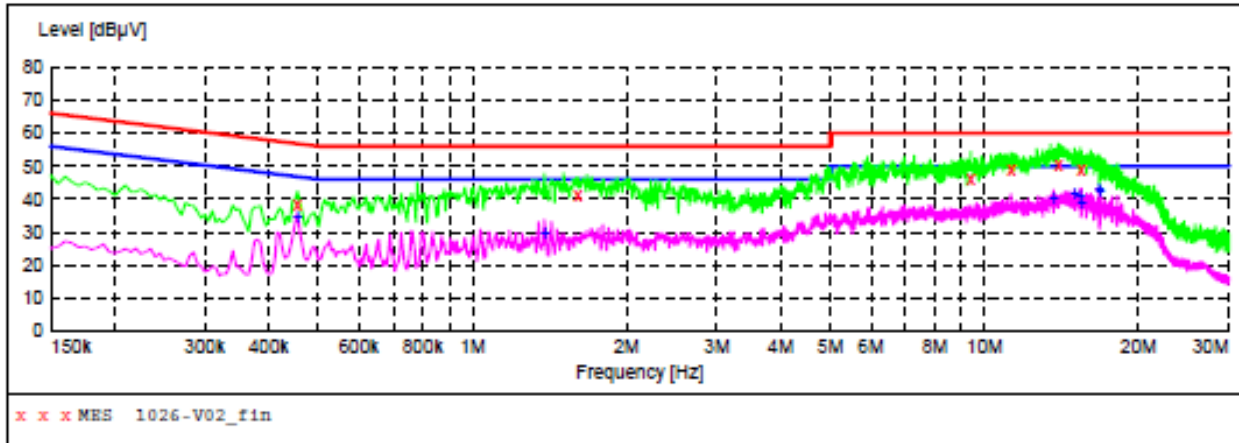
Test Requirement:	FCC Part15 C Section 15.207					
Test Method:	ANSI C63.10:2013					
Test Frequency Range:	150KHz to 30MHz					
Class / Severity:	Class B					
Receiver setup:	RBW=9KHz, VBW=30KHz					
Limit:	Frequency range (MHz)	Limit (dBuV)				
		Quasi-peak	Average			
	0.15-0.5	66 to 56*	56 to 46*			
	0.5-5	56	46			
	5-30	60	50			
* Decreases with the logarithm of the frequency.						
Test procedure	<p>The E.U.T and simulators are connected to the main power through a line impedance stabilization network(L.I.S.N.). The provide a 50ohm/50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refers to the block diagram of the test setup and photographs). Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10:2013 on conducted measurement.</p>					
Test setup:	<p><i>Remark</i> <i>E.U.T: Equipment Under Test</i> <i>LISN: Line Impedance Stabilization Network</i> <i>Test table height=0.8m</i></p>					
Test Instruments:	Refer to section 6 for details					
Test mode:	Refer to section 5.2 for details					
Test environment:	Temp.:	25 °C	Humid.:	52%	Press.:	1012mbar
Test voltage:	AC 120V, 60Hz					
Test results:	Pass					

Remark: Both high and low voltages have been tested to show only the worst low voltage test data.

Measurement data:

Line:

SCAN TABLE: "Voltage (9K-30M)FIN"
 Short Description: 150K-30M Voltage



MEASUREMENT RESULT: "1026-V02_fin"

2020-10-26 22:34

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.455000	38.50	11.0	57	18.3	QP	L1	GND
1.605000	41.20	11.0	56	14.8	QP	L1	GND
9.400000	45.90	11.3	60	14.1	QP	L1	GND
11.260000	48.80	11.3	60	11.2	QP	L1	GND
13.930000	50.30	11.4	60	9.7	QP	L1	GND
15.445000	48.80	11.4	60	11.2	QP	L1	GND

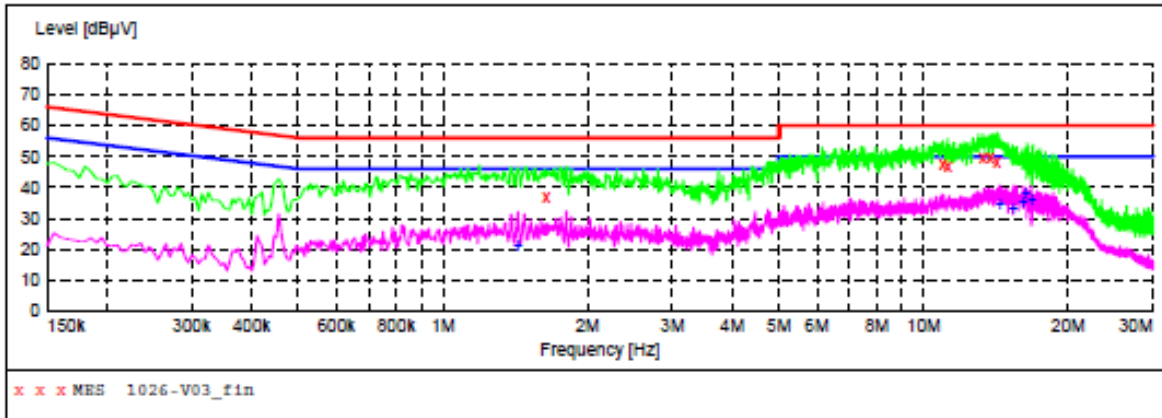
MEASUREMENT RESULT: "1026-V02_fin2"

2020-10-26 22:34

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.455000	34.60	11.0	47	12.2	AV	L1	GND
1.380000	29.60	11.0	46	16.4	AV	L1	GND
13.615000	40.40	11.4	50	9.6	AV	L1	GND
14.995000	42.10	11.4	50	7.9	AV	L1	GND
15.370000	41.50	11.4	50	8.5	AV	L1	GND
15.445000	39.00	11.4	50	11.0	AV	L1	GND
16.750000	43.10	11.4	50	6.9	AV	L1	GND
16.795000	42.40	11.4	50	7.6	AV	L1	GND

Neutral:

SCAN TABLE: "Voltage (9K-30M)FIN"
 Short Description: 150K-30M Voltage



MEASUREMENT RESULT: "1026-V03_fin"

2020-10-26 22:39

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
1.640000	37.20	11.0	56	18.8	QP	N	GND
10.975000	47.50	11.3	60	12.5	QP	N	GND
11.230000	46.70	11.3	60	13.3	QP	N	GND
13.270000	49.60	11.4	60	10.4	QP	N	GND
13.780000	49.80	11.4	60	10.2	QP	N	GND
14.215000	48.60	11.4	60	11.4	QP	N	GND

MEASUREMENT RESULT: "1026-V03_fin2"

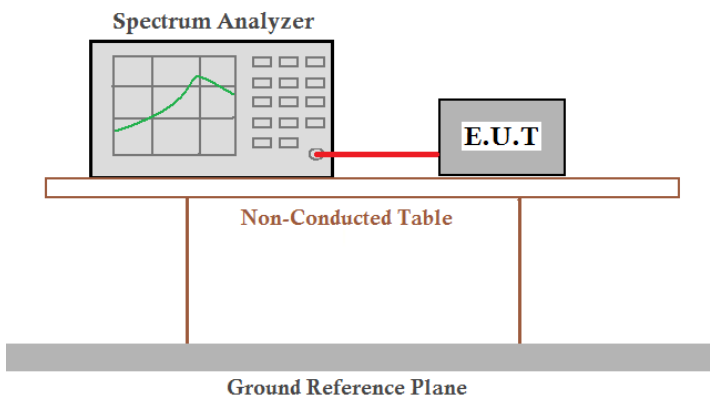
2020-10-26 22:39

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
1.430000	21.80	11.0	46	24.2	AV	N	GND
14.395000	35.20	11.4	50	14.8	AV	N	GND
15.355000	33.60	11.4	50	16.4	AV	N	GND
16.075000	35.40	11.4	50	14.6	AV	N	GND
16.300000	38.30	11.4	50	11.7	AV	N	GND
16.750000	36.60	11.4	50	13.4	AV	N	GND

Notes:

1. An initial pre-scan was performed on the line and neutral lines with peak detector.
2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
3. Final Level = Receiver Read level + LISN Factor + Cable Loss

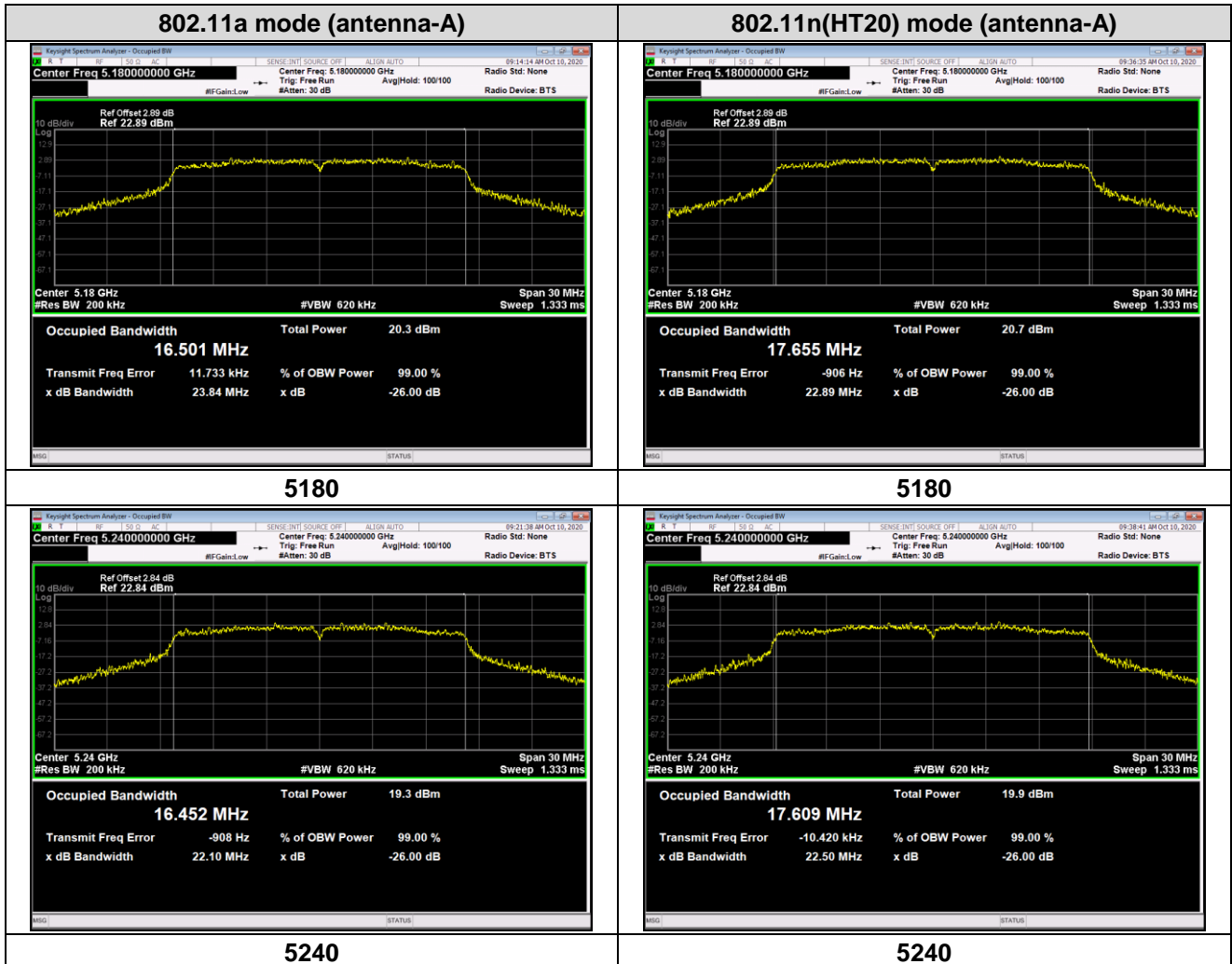
7.3 Emission Bandwidth and 99% Occupied Bandwidth

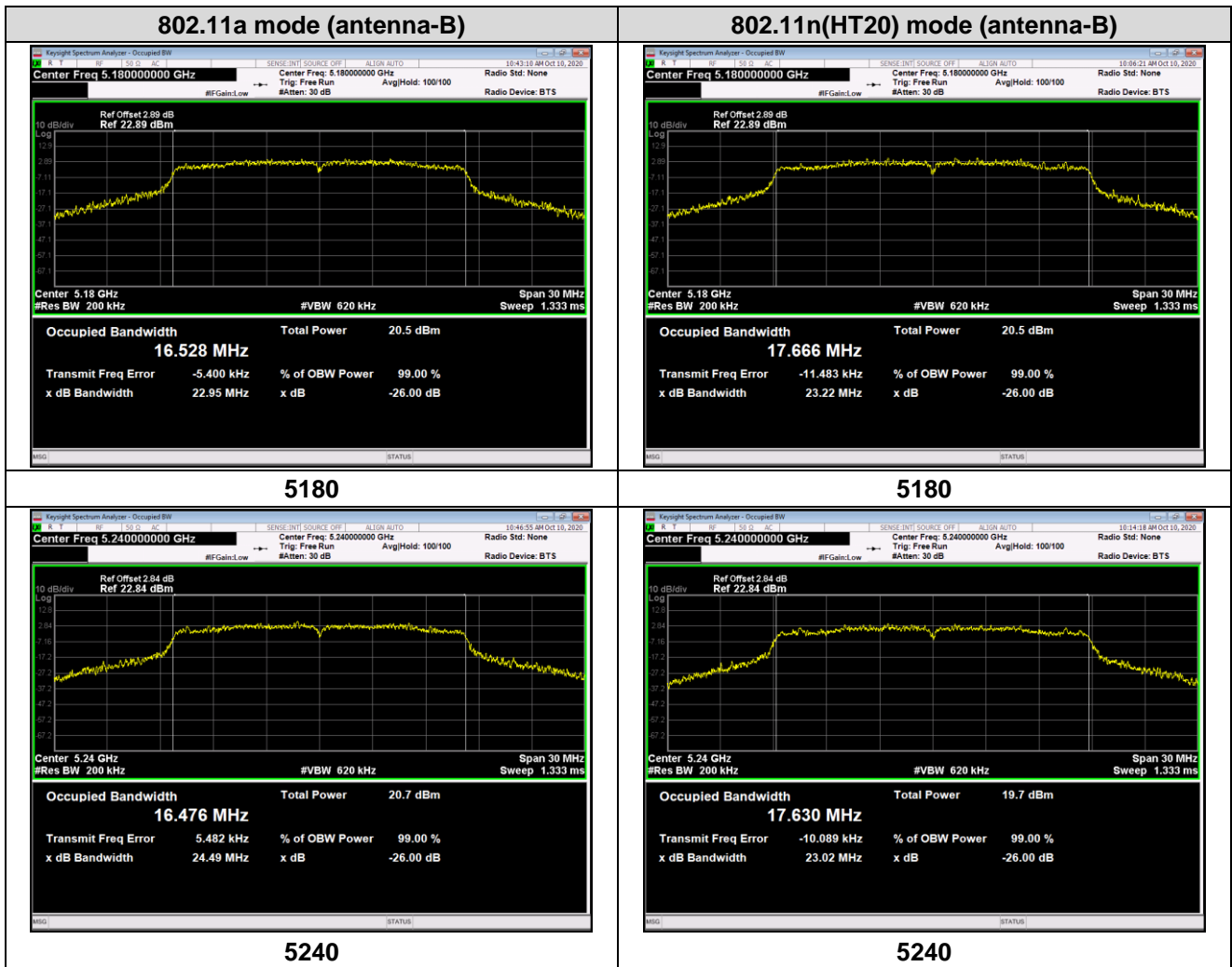
Test Requirement:	FCC Part15 E Section 15.407
Test Method:	KDB 789033 D02 General U-NII Test Procedures New Rules v02r01
Limit:	N/A
Test setup:	 <p>The diagram illustrates the test setup. A Spectrum Analyzer is connected to an E.U.T. (Equipment Under Test) via a red cable. Both are placed on a Non-Conducted Table, which is supported by a Ground Reference Plane.</p>
Test procedure:	According to KDB 789033 D02 General U-NII Test Procedures New Rules v02r01.
Test Instruments:	Refer to section 6 for details
Test mode:	Refer to section 5.2 for details
Test results:	Pass

Measurement Data:

CH. No.	Frequency (MHz)	99% Occupied Bandwidth (MHz)				26dB Occupied Bandwidth (MHz)			
		802.11a		802.11n(HT20)		802.11a		802.11n(HT20)	
		ANT-A	ANT-B	ANT-A	ANT-B	ANT-A	ANT-B	ANT-A	ANT-B
36	5180	16.501	16.528	17.655	17.666	23.84	22.95	22.89	23.22
48	5240	16.452	16.476	17.609	17.630	22.10	24.49	22.50	23.02

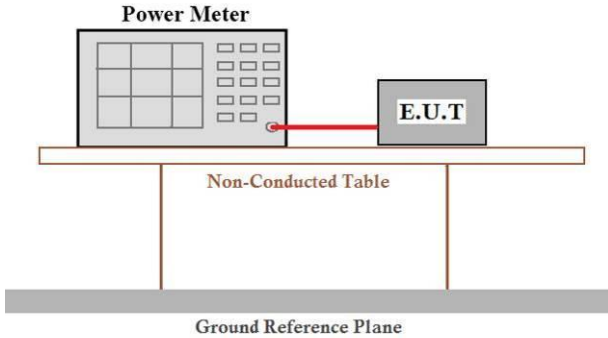
Test plots as followed:





Note: We tested 802.11a/n mode the all data rate and recorded the worst case data for this channel to be 6Mbps for 802.11a mode and MCS0 for 802.11n mode.

7.4 Peak Transmit Power

Test Requirement:	FCC Part15 E Section 15.407									
Test Method:	KDB 789033 D02 General U-NII Test Procedures New Rules v02r01									
Limit:	<table border="1"> <thead> <tr> <th>Frequency band (MHz)</th> <th>Limit</th> </tr> </thead> <tbody> <tr> <td rowspan="2">5150-5250</td> <td>≤1W(30dBm) for master device</td> </tr> <tr> <td>≤250mW(23.98dBm) for client device</td> </tr> <tr> <td>5250-5350</td> <td>≤250mW(23.98dBm) for client device or 11dBm+10logB*</td> </tr> <tr> <td>5470-5725</td> <td>≤250mW(23.98dBm) for client device or 11dBm+10logB*</td> </tr> </tbody> </table>	Frequency band (MHz)	Limit	5150-5250	≤1W(30dBm) for master device	≤250mW(23.98dBm) for client device	5250-5350	≤250mW(23.98dBm) for client device or 11dBm+10logB*	5470-5725	≤250mW(23.98dBm) for client device or 11dBm+10logB*
	Frequency band (MHz)	Limit								
	5150-5250	≤1W(30dBm) for master device								
		≤250mW(23.98dBm) for client device								
	5250-5350	≤250mW(23.98dBm) for client device or 11dBm+10logB*								
5470-5725	≤250mW(23.98dBm) for client device or 11dBm+10logB*									
Remark: *Where B is the 26dB emission bandwidth in MHz. The maximum conducted output power must be measured over any interval of continuous transmission using instrumentation calibrated in terms of an rms-equivalent voltage.										
Test setup:	 <p>The diagram shows a Power Meter and an E.U.T. connected by a red cable. They are placed on a table labeled 'Non-Conducted Table'. Below the table is a 'Ground Reference Plane'.</p>									
Test procedure:	<p>Measurement using an RF average power meter</p> <ul style="list-style-type: none"> (i) Measurements may be performed using a wideband RF power meter with a thermocouple detector or equivalent if all of the conditions listed below are satisfied <ul style="list-style-type: none"> 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 section 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 percent). 									
Test Instruments:	Refer to section 6 for details									
Test mode:	Refer to section 5.2 for details									
Test results:	Pass									

Measurement Data

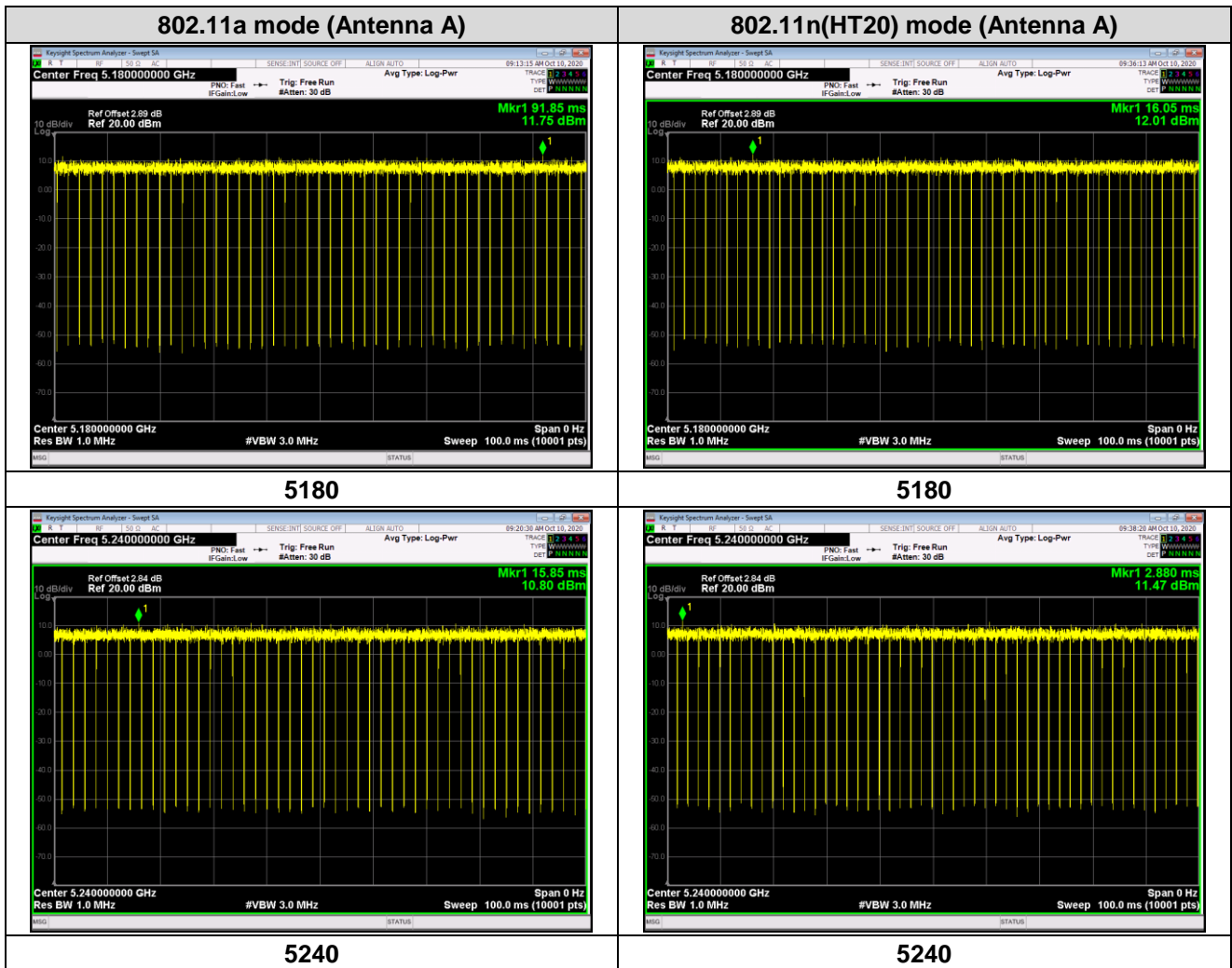
Modulation	Frequency (MHz)	Duty cycle		Duty Factor	
		ANTENNA-A	ANTENNA-B	ANTENNA-A	ANTENNA-B
802.11a	5180	96.21%	96.16%	0.17	0.17
	5240	96.23%	96.2%	0.17	0.17
802.11n(HT20)	5180	96.27%	96.25%	0.17	0.17
	5240	96.27%	96.25%	0.17	0.17

802.11a mode										
CH No.	Frequency (MHz)	Measured Power (dBm)			Duty Factor	Output Power (dBm)			Limit (dBm)	Result
		ANT A	ANT B	ANT A+B		ANT A	ANT B	ANT A+B		
36	5180	14.48	14.75	--	0.17	14.65	14.92	--	23.98	Pass
48	5240	13.51	14.82	--	0.17	13.68	14.99	--		
802.11n(HT20) mode										
CH No.	Frequency (MHz)	Measured Power (dBm)			Duty Factor	Output Power (dBm)			Limit (dBm)	Result
		ANT A	ANT B	ANT A+B		ANT A	ANT B	ANT A+B		
36	5180	14.95	14.77	18.11	0.17	15.12	14.94	18.28	23.98	Pass
48	5240	14.05	13.98	18.19	0.17	14.22	14.15	18.36		

Note: Output Power = Measured Power + Duty Factor

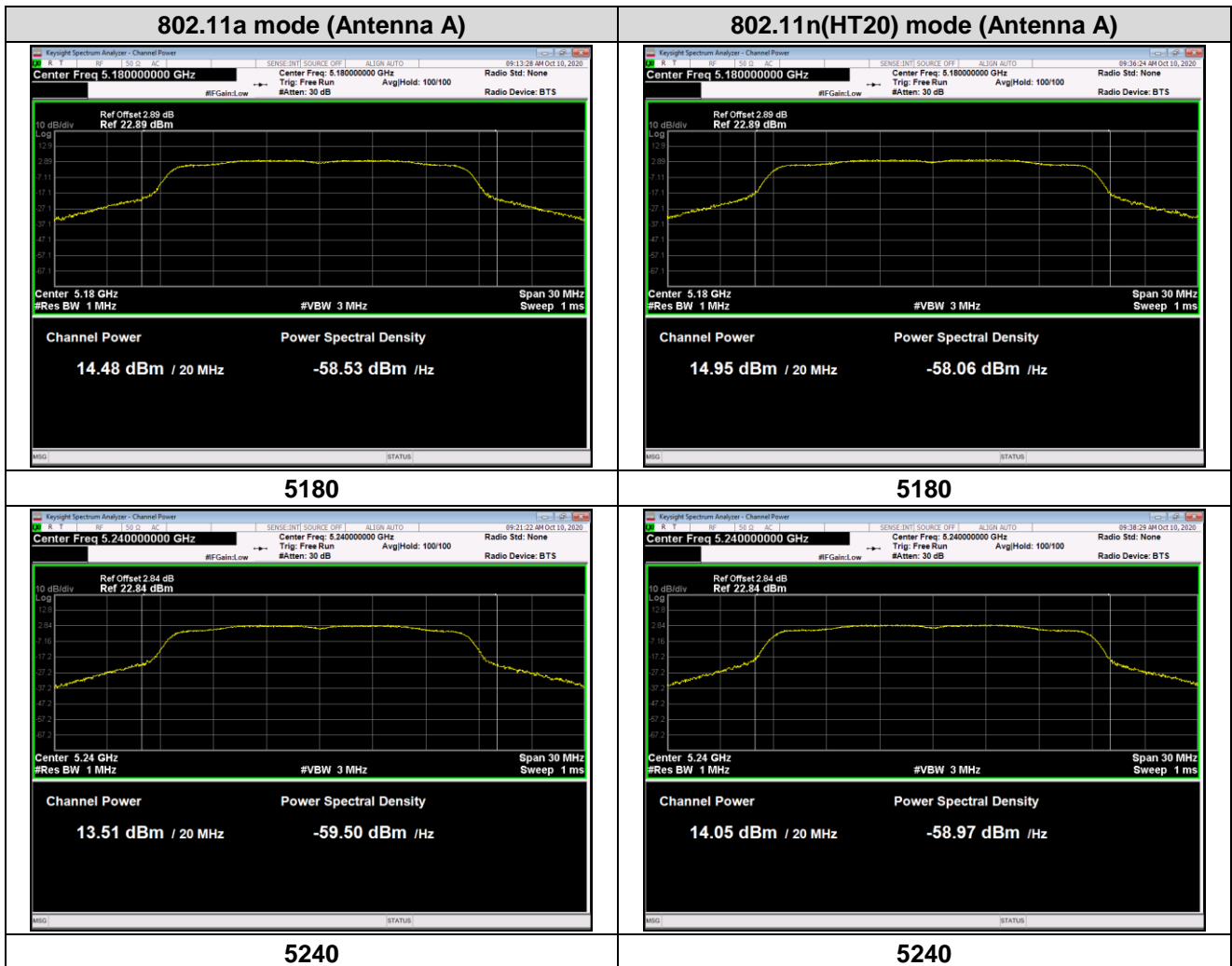
Duty Factor = 10 log (1/Duty Cycle)

Test plots as followed:





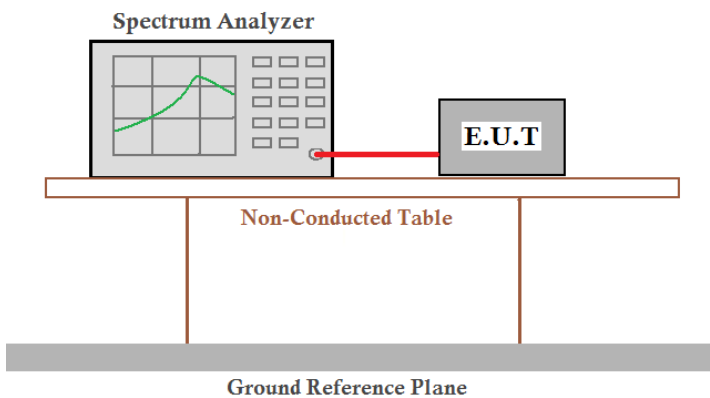
Note: We tested 802.11a/n mode the all data rate and recorded the worst case data for this channel to be 6Mbps for 802.11a mode and MCS0 for 802.11n mode.





Note: We tested 802.11a/n mode the all data rate and recorded the worst case data for this channel to be 6Mbps for 802.11a mode and MCS0 for 802.11n mode.

7.5 Power Spectral Density

Test Requirement:	FCC Part15 E Section 15.407									
Test Method:	KDB 789033 D02 General U-NII Test Procedures New Rules v02r01									
Limit:	<table border="1"> <thead> <tr> <th>Frequency band (MHz)</th> <th>Limit</th> </tr> </thead> <tbody> <tr> <td rowspan="2">5150-5250</td> <td>≤17dBm in 1MHz for master device</td> </tr> <tr> <td>≤11dBm in 1MHz for client device</td> </tr> <tr> <td>5250-5350</td> <td>≤11dBm in 1MHz for client device</td> </tr> <tr> <td>5470-5725</td> <td>≤11dBm in 1MHz for client device</td> </tr> </tbody> </table>	Frequency band (MHz)	Limit	5150-5250	≤17dBm in 1MHz for master device	≤11dBm in 1MHz for client device	5250-5350	≤11dBm in 1MHz for client device	5470-5725	≤11dBm in 1MHz for client device
	Frequency band (MHz)	Limit								
	5150-5250	≤17dBm in 1MHz for master device								
		≤11dBm in 1MHz for client device								
	5250-5350	≤11dBm in 1MHz for client device								
5470-5725	≤11dBm in 1MHz for client device									
Remark: The maximum power spectral density is measured as a conducted emission by direct connection of a calibrated test instrument to the equipment under test.										
Test setup:	 <p>The diagram illustrates the test setup. A Spectrum Analyzer is connected to an E.U.T. (Equipment Under Test) via a red cable. Both the Spectrum Analyzer and the E.U.T. are placed on a Non-Conducted Table. The table is supported by two vertical legs. Below the table is a Ground Reference Plane.</p>									
Test procedure:	<ol style="list-style-type: none"> 1) Create an average power spectrum for the EUT operating mode being tested by following the instructions in section E)2) for measuring maximum conducted output power using a spectrum analyzer or EMI receiver: select the appropriate test method (SA-1, SA-2, SA-3, or alternatives to each) and apply it up to, but not including, the step labeled, "Compute power...". 2) Use the peak search function on the instrument to find the peak of the spectrum. 3) Make the following adjustments to the peak value of the spectrum, if applicable: <ol style="list-style-type: none"> a) If Method SA-2 or SA-2 Alternative was used, add $10 \log(1/x)$, where x is the duty cycle, to the peak of the spectrum. b) If Method SA-3 Alternative was used and the linear mode was used in step E)2)g)(viii), add 1 dB to the final result to compensate for the difference between linear averaging and power averaging. 4) The result is the PSD. 									
Test Instruments:	Refer to section 6 for details									
Test mode:	Refer to section 5.2 for details									
Test results:	Pass									

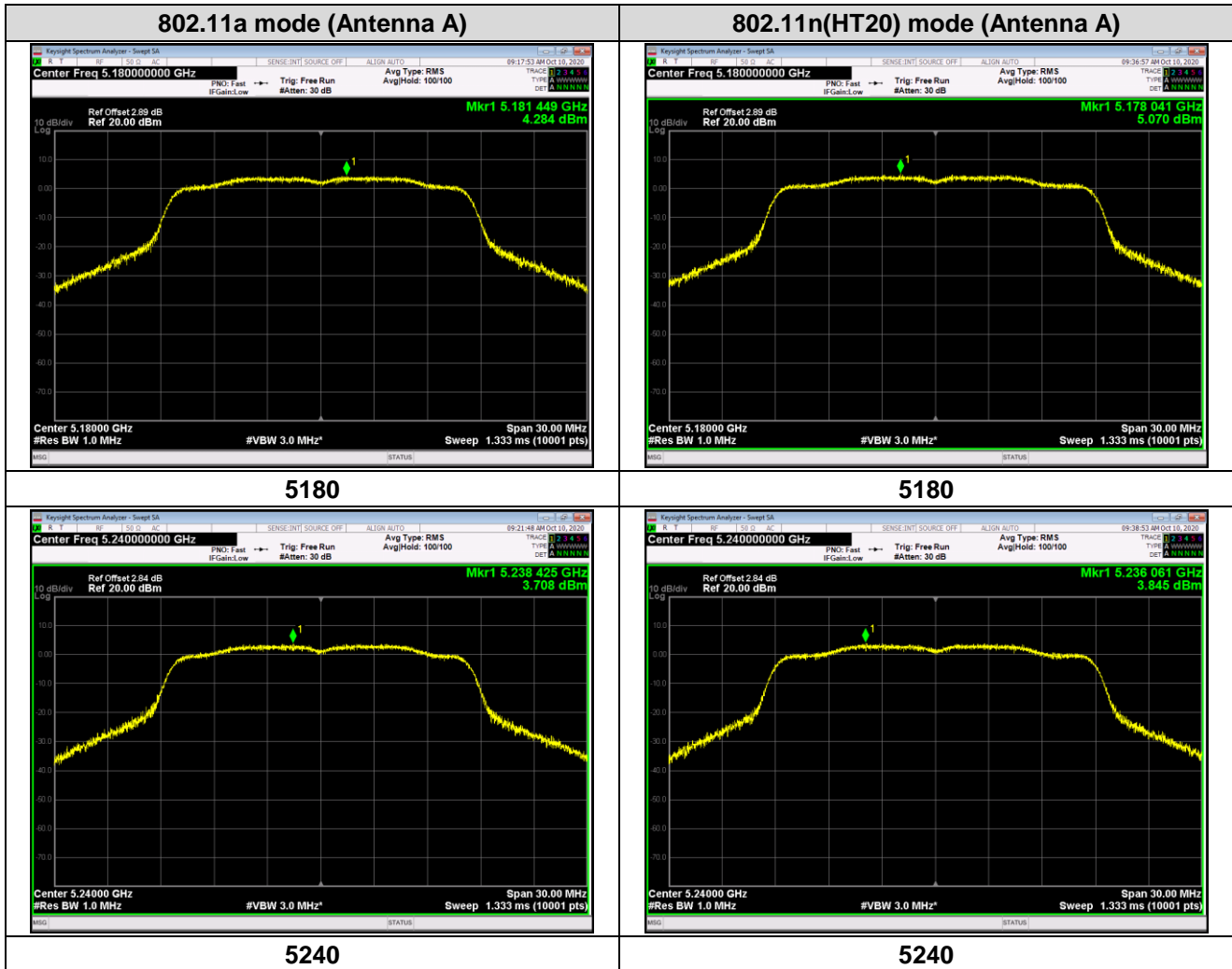
Measurement Data

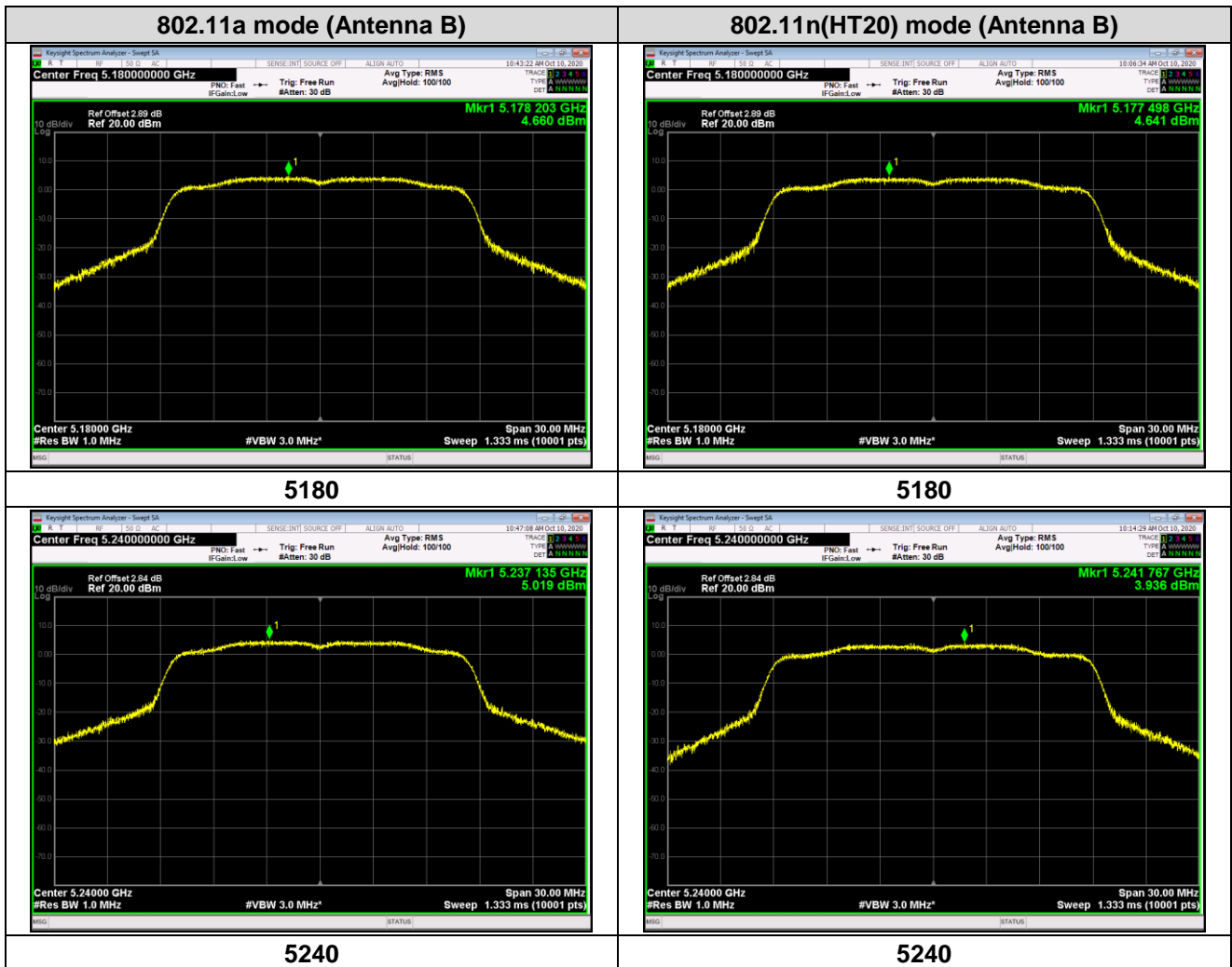
Modulation	Frequency (MHz)	Duty cycle		Duty Factor	
		ANTENNA-A	ANTENNA-B	ANTENNA-A	ANTENNA-B
802.11a	5180	96.21%	96.16%	0.17	0.17
	5240	96.23%	96.2%	0.17	0.17
802.11n(HT20)	5180	96.26%	96.25%	0.17	0.17
	5240	96.27%	96.25%	0.17	0.17

802.11a mode										
CH No.	Frequency (MHz)	Measured PSD (dBm/MHz)			Duty Factor	Total PSD Power(dBm/MHz)			Limit (dBm/MHz)	Result
		ANT A	ANT B	ANT A+B		ANT A	ANT B	ANT A+B		
36	5180	4.284	4.660	--	0.17	4.454	4.830	--	11	Pass
48	5240	3.708	5.019	--	0.17	3.878	5.189	--	11	Pass
802.11n(HT20) mode										
CH No.	Frequency (MHz)	Measured PSD (dBm/MHz)			Duty Factor	Total PSD Power(dBm/MHz)			Limit (dBm/MHz)	Result
		ANT A	ANT B	ANT A+B		ANT A	ANT B	ANT A+B		
36	5180	5.070	4.641	7.864	0.17	5.24	4.811	8.034	11	Pass
48	5240	3.845	3.936	8.025	0.17	4.015	4.106	8.195	11	Pass

Note: Output Power = Measured Power + Duty Factor
 Duty Factor = 10 log (1/Duty Cycle)

Test plots as followed:

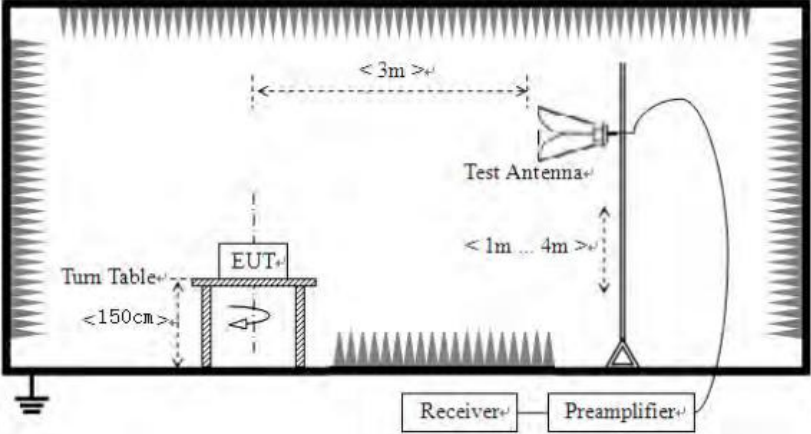




Note: We tested 802.11a/n mode the all data rate and recorded the worst case data for this channel to be 6Mbps for 802.11a mode and MCS0 for 802.11n mode.

7.6 Band Edge

Test Requirement:	FCC Part15 E Section 15.407 and 5.205				
Test Method:	ANSI C63.10:2013				
Test site:	Measurement Distance: 3m (Semi-Anechoic Chamber)				
Receiver setup:	Frequency	Detector	RBW	VBW	Remark
	30MHz-1GHz	Quasi-peak	100KHz	300KHz	Quasi-peak Value
	Above 1GHz	Peak	1MHz	3MHz	Peak Value
		AV	1MHz	3MHz	Average Value
Limit:	Frequency	Limit (dBuV/m @3m)		Remark	
	30MHz-88MHz	40.0		Quasi-peak Value	
	88MHz-216MHz	43.5		Quasi-peak Value	
	216MHz-960MHz	46.0		Quasi-peak Value	
	960MHz-1GHz	54.0		Quasi-peak Value	
	Above 1GHz	54.0		Average Value	
		68.2		Peak Value	
<p>Undesirable emission limits:</p> <p>(1) For transmitters operating in the 5.15-5.25 GHz band: all emissions outside of the 5.15-5.35 GHz band shall not exceed an EIRP of -27 dBm/MHz.</p> <p>(2) For transmitters operating in the 5.25-5.35 GHz band: all emissions outside of the 5.15-5.35 GHz band shall not exceed an EIRP of -27 dBm/MHz. Devices operating in the 5.25-5.35 GHz band that generate emissions in the 5.15-5.25 GHz band must meet all applicable technical requirements for operation in the 5.15-5.25 GHz band (including indoor use) or alternatively meet an out-of-band emission EIRP limit of -27 dBm/MHz in the 5.15-5.25 GHz band.</p> <p>(3) For transmitters operating in the 5.47-5.725 GHz band: all emissions outside of the 5.47-5.725 GHz band shall not exceed an EIRP of -27 dBm/MHz.</p>					
Test Procedure:	<p>a. The EUT was placed on the top of a rotating table 1.5 m above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.</p> <p>b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.</p> <p>c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.</p> <p>d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.</p> <p>e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</p> <p>f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not</p>				

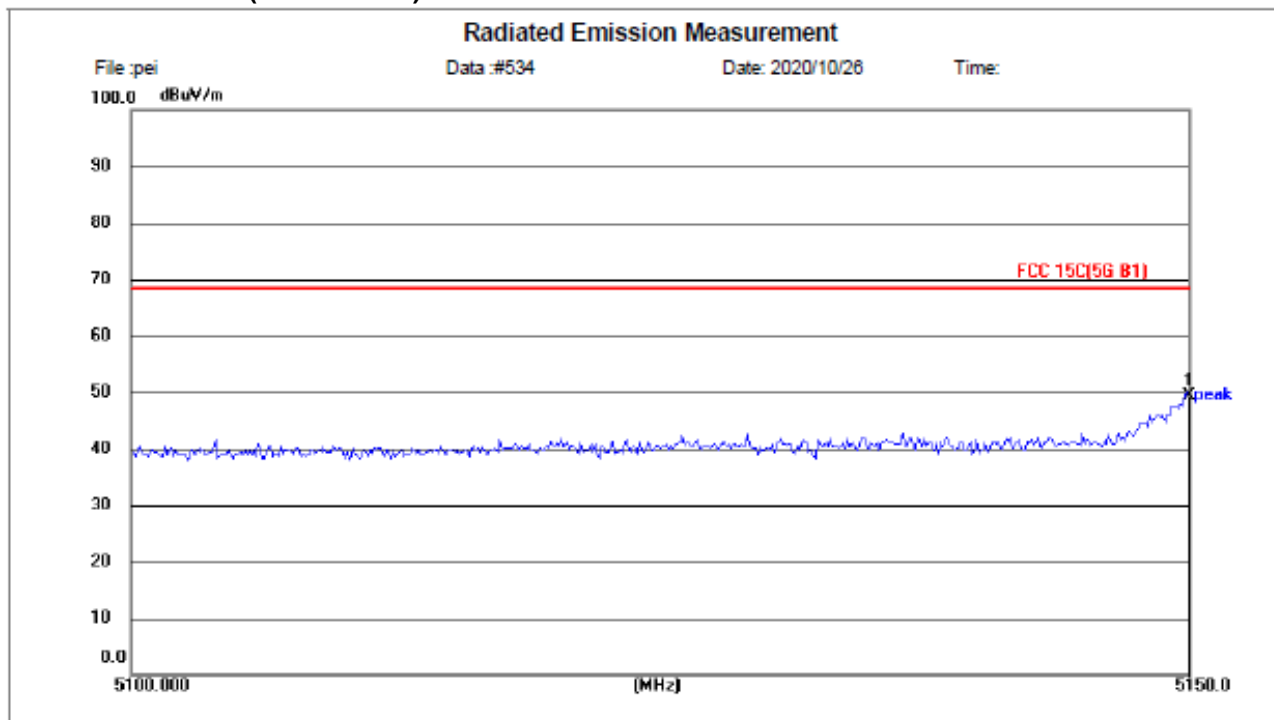
	<p>have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.</p>
<p>Test setup:</p>	<p>For radiated emissions above 1GHz</p> 
<p>Test Instruments:</p>	<p>Refer to section 6 for details</p>
<p>Test mode:</p>	<p>Refer to section 5.2 for details</p>
<p>Test results:</p>	<p>Pass</p>

Remarks:

1. Only the worst case Main Antenna test data.
2. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor
3. The emission levels of other frequencies are very lower than the limit and not show in test report.
4. The pre-test were performed on lowest, middle and highest frequencies, only the worst case's (lowest and highest frequencies) data was showed.
5. According to KDB 789033 D02 v02r01 section G) 1) (d), for For measurements above 1000 MHz @ 3m distance, the limit of field strength is computed as follows:
 $E[dBuV/m] = EIRP[dBm] + 95.2;$
 For example, if $EIRP = -27dBm$
 $E[dBuV/m] = -27 + 95.2 = 68.2dBuV/m.$

Radiated Band Edge Result

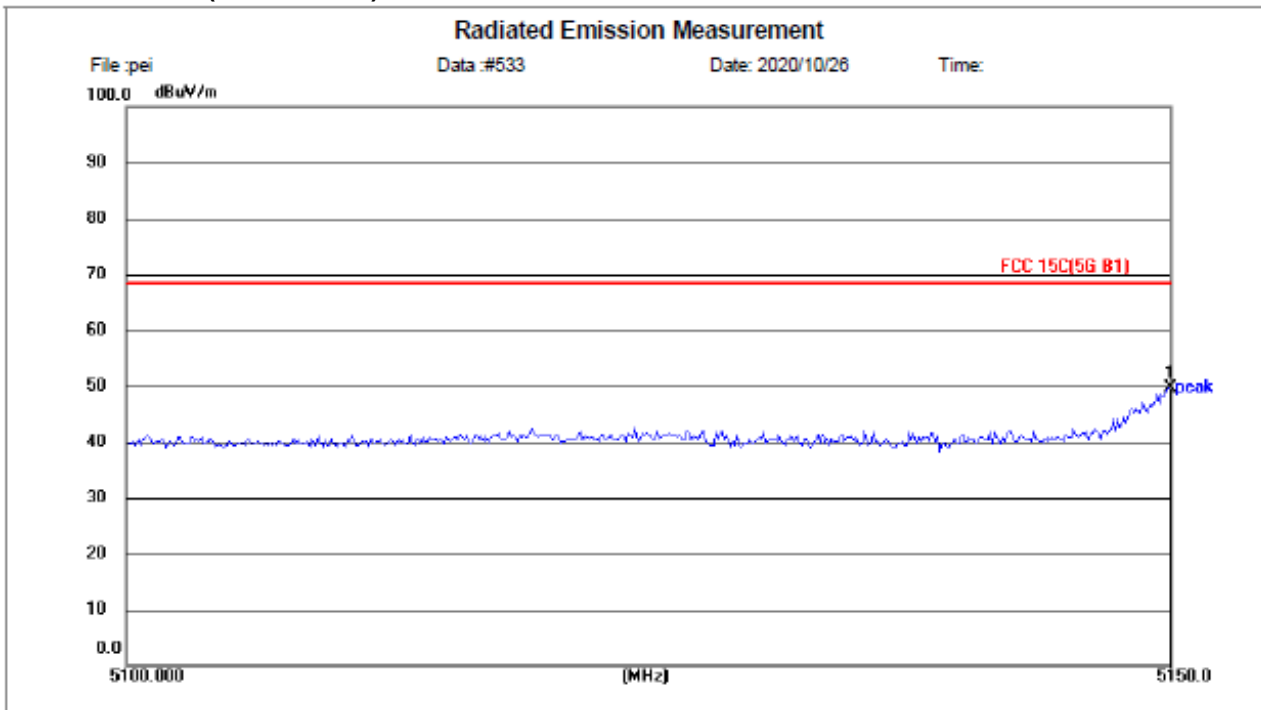
Horizontal: 802.11a (TX 5180MHz)



Site 966 Chamber Polarization: *Horizontal* Temperature: 26(C)
 Limit: FCC 15C(5G B1) Power: DC 5V Humidity: 54 %
 EUT: Vaxis wireless video system Distance: 3m
 M/N: Vaxis Atom 500 SDI TX
 Mode: 802.11a (TX 5180MHz)
 Note: Hunan GM innovation technology Co.,Ltd
 Transmitter

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1 *	5150.000	53.42	-3.99	49.43	68.23	18.80	peak			P	

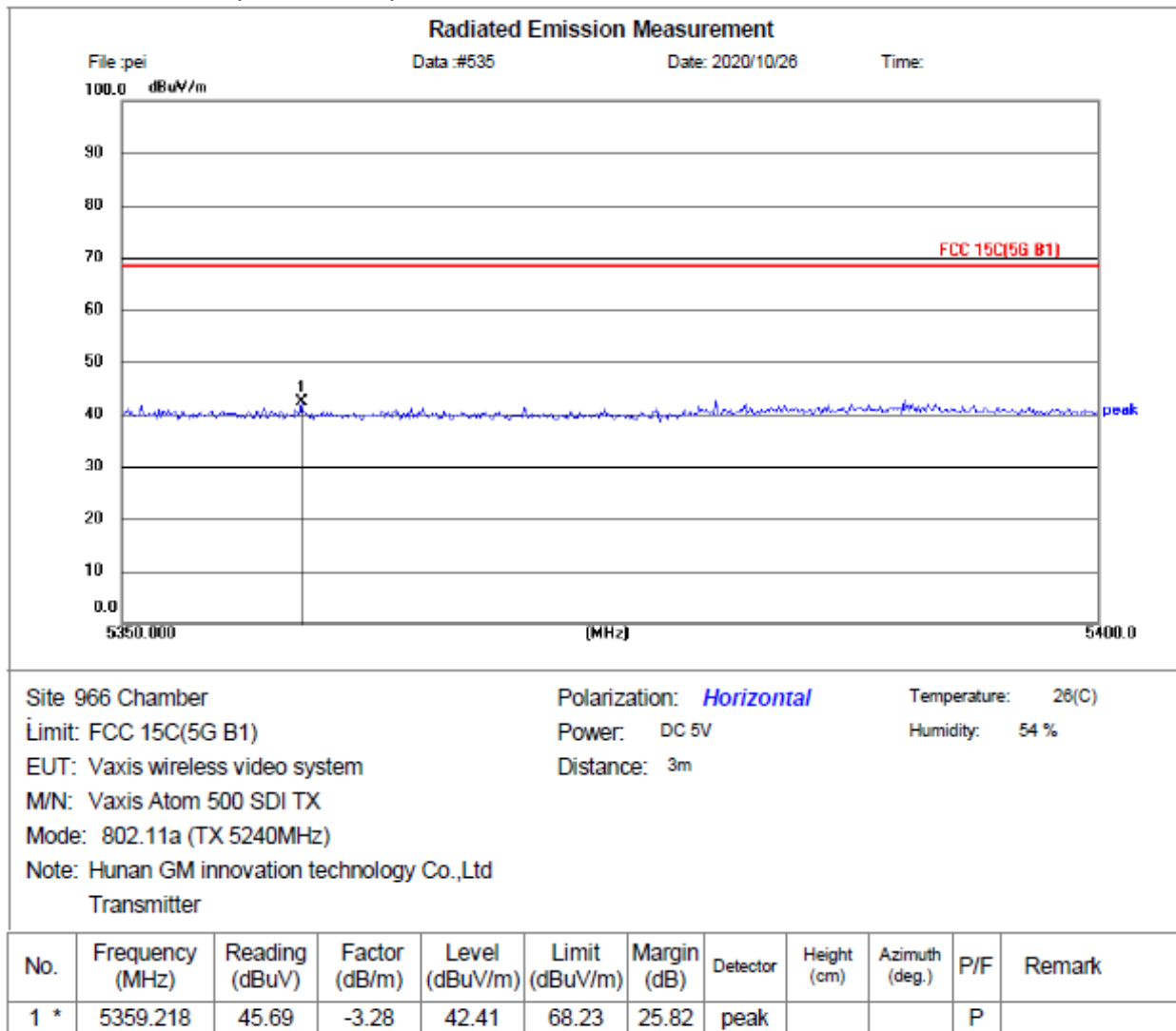
Vertical: 802.11a (TX 5180MHz)



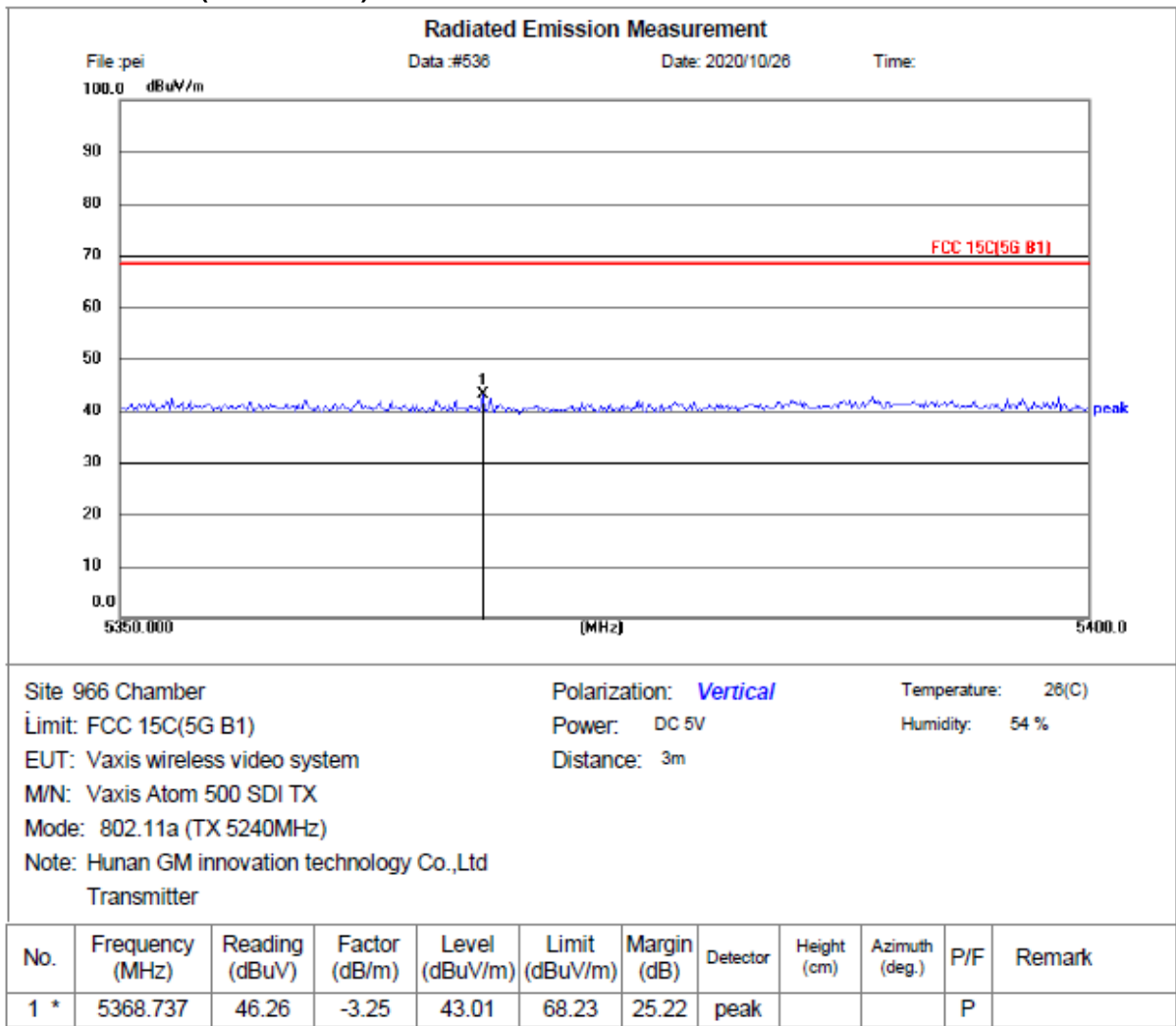
Site 966 Chamber	Polarization: <i>Vertical</i>	Temperature: 26(C)
Limit: FCC 15C(5G B1)	Power: DC 5V	Humidity: 54 %
EUT: Vaxis wireless video system	Distance: 3m	
M/N: Vaxis Atom 500 SDI TX		
Mode: 802.11a (TX 5180MHz)		
Note: Hunan GM innovation technology Co.,Ltd		
Transmitter		

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1 *	5150.000	53.56	-3.99	49.57	68.23	18.66	peak			P	

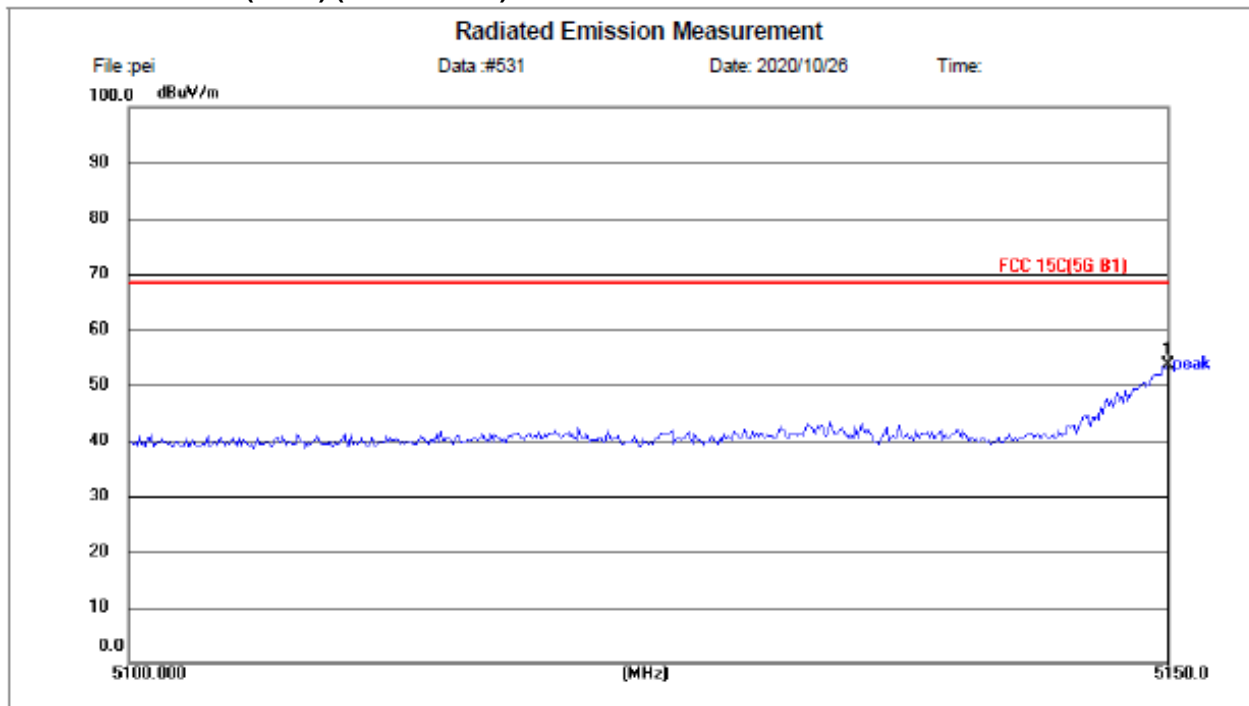
Horizontal: 802.11a (TX 5240MHz)



Vertical: 802.11a (TX 5240MHz)



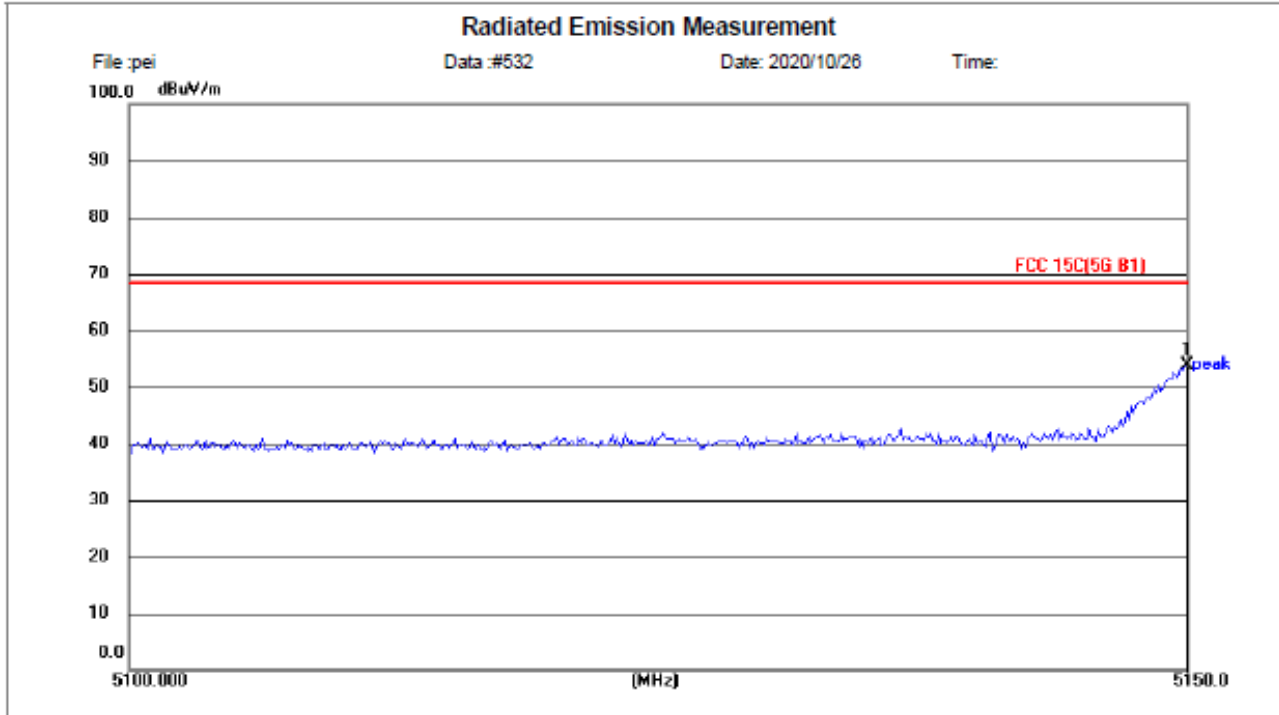
Horizontal: 802.11n (HT20) (TX 5180MHz)



Site 966 Chamber	Polarization: <i>Horizontal</i>	Temperature: 26(C)
Limit: FCC 15C(5G B1)	Power: DC 5V	Humidity: 54 %
EUT: Vaxis wireless video system	Distance: 3m	
M/N: Vaxis Atom 500 SDI TX		
Mode: 802.11n (TX 5180MHz)		
Note: Hunan GM innovation technology Co.,Ltd		
Transmitter		

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1 *	5150.000	57.65	-3.99	53.66	68.23	14.57	peak			P	

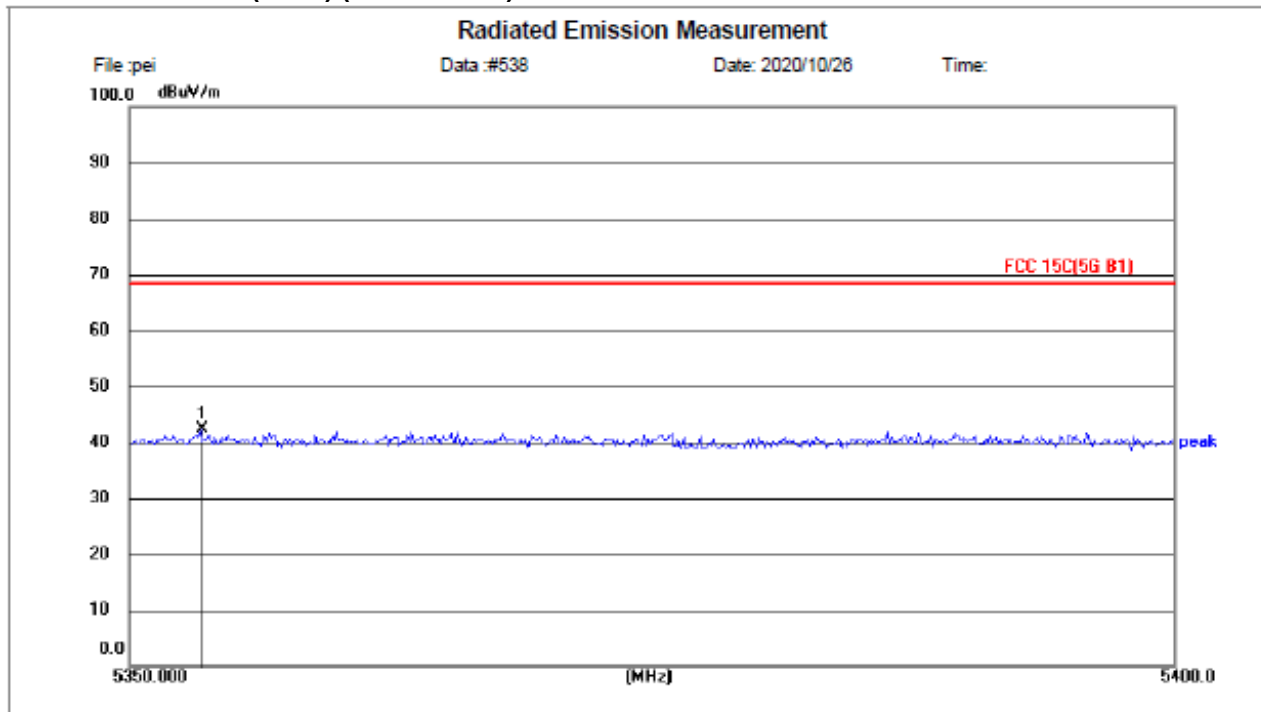
Vertical: 802.11n (HT20) (TX 5180MHz)



Site 966 Chamber	Polarization: <i>Vertical</i>	Temperature: 28(C)
Limit: FCC 15C(5G B1)	Power: DC 5V	Humidity: 54 %
EUT: Vaxis wireless video system	Distance: 3m	
M/N: Vaxis Atom 500 SDI TX		
Mode: 802.11n (TX 5180MHz)		
Note: Hunan GM innovation technology Co.,Ltd		
Transmitter		

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1 *	5150.000	57.90	-3.99	53.91	68.23	14.32	peak			P	

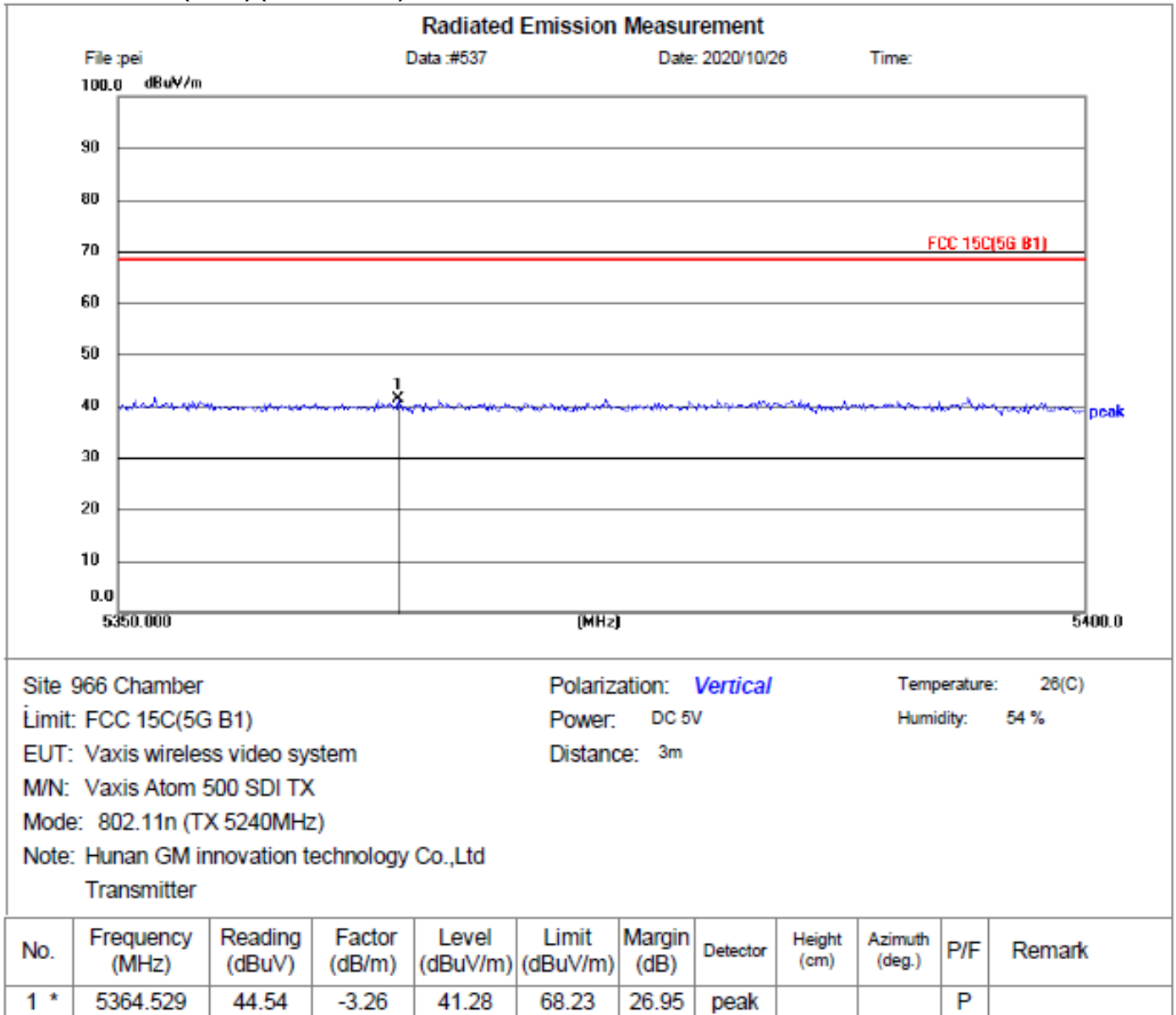
Horizontal: 802.11n (HT20) (TX 5240MHz)



Site 966 Chamber	Polarization: <i>Horizontal</i>	Temperature: 26(C)
Limit: FCC 15C(5G B1)	Power: DC 5V	Humidity: 54 %
EUT: Vaxis wireless video system	Distance: 3m	
M/N: Vaxis Atom 500 SDI TX		
Mode: 802.11n (TX 5240MHz)		
Note: Hunan GM innovation technology Co.,Ltd		
Transmitter		

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1 *	5353.407	45.59	-3.29	42.30	68.23	25.93	peak			P	

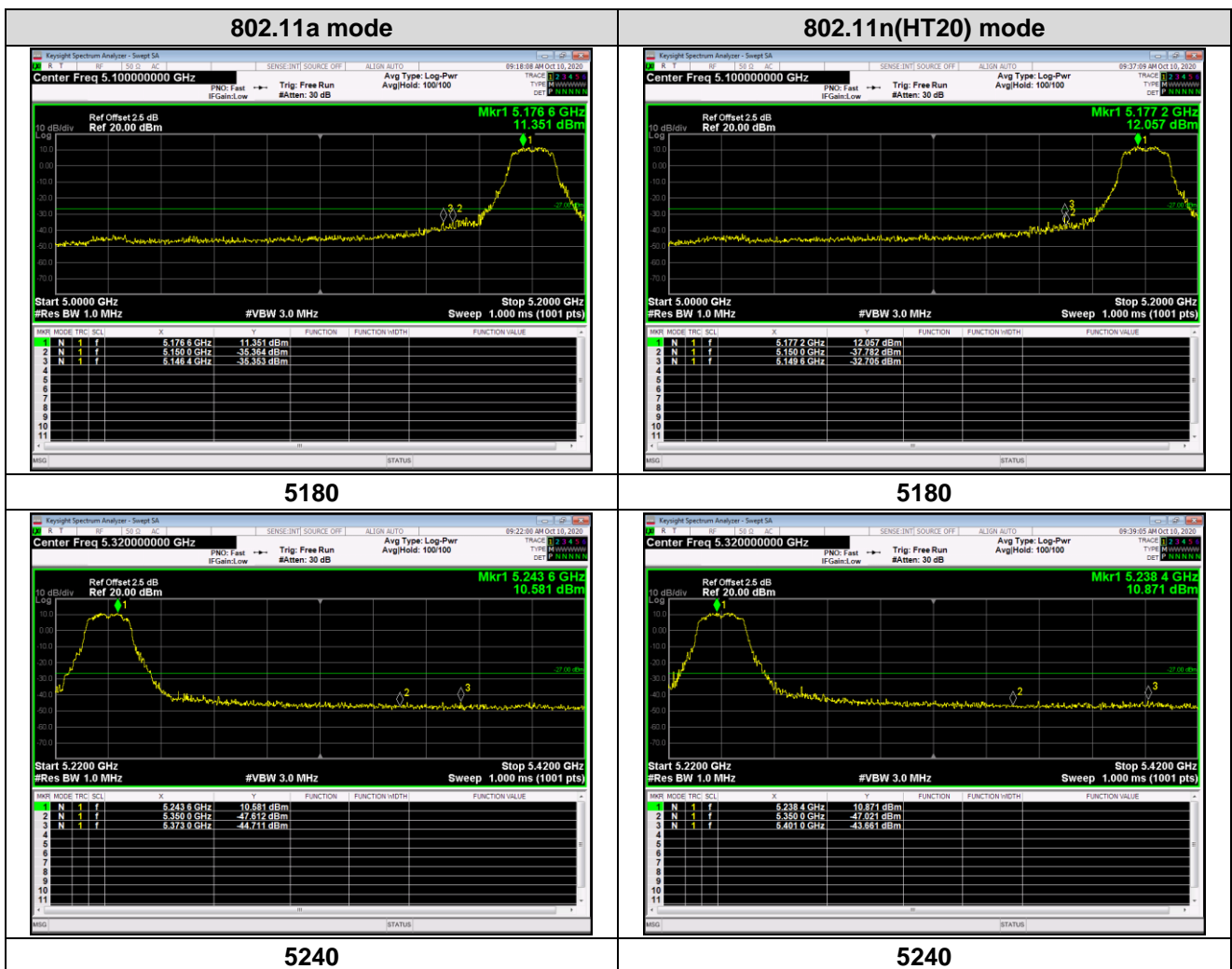
Vertical: 802.11n (HT20) (TX 5240MHz)



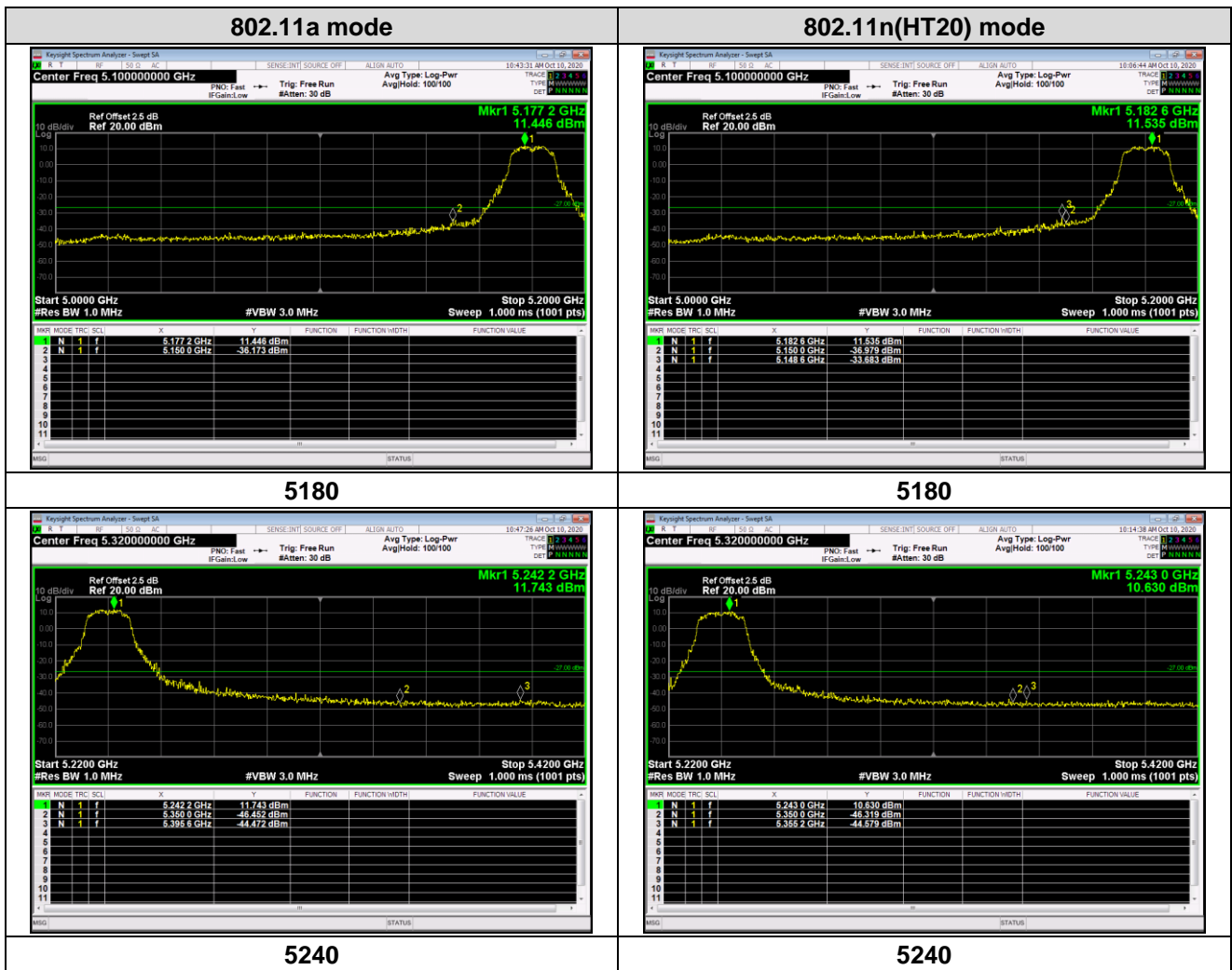
Note: We tested 802.11a/n mode the all data rate and recorded the worst case data for this channel to be 6Mbps for 802.11a mode and MCS0 for 802.11n mode.

Conducted Band Edge Result

Antenna A



Antenna B

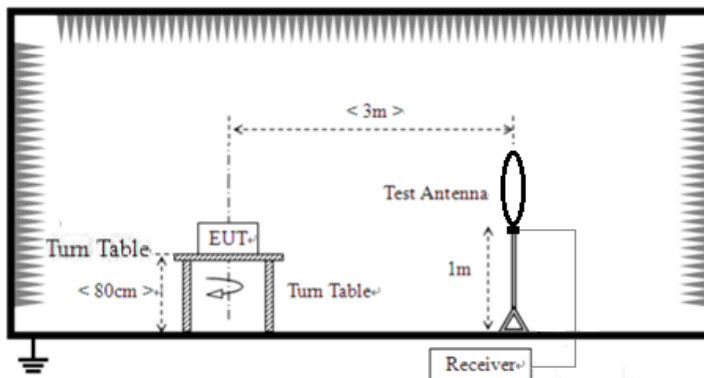


Note: We tested 802.11a/n mode the all data rate and recorded the worst case data for this channel to be 6Mbps for 802.11a mode and MCS0 for 802.11n mode.

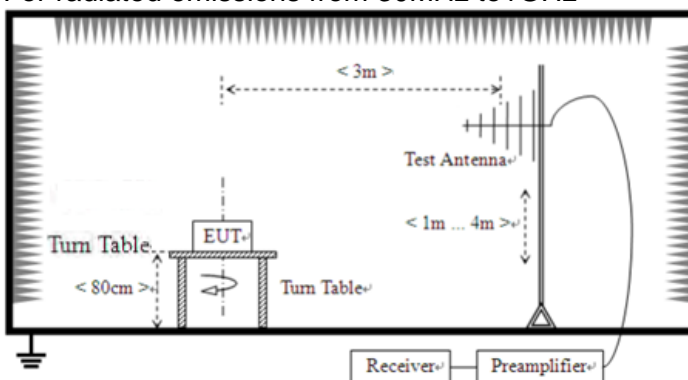
7.7 Radiated Emission

Test Requirement:	FCC Part15 C Section 15.209 and 15.205				
Test Method:	ANSI C63.10:2013				
Test Frequency Range:	9kHz to 40GHz				
Test site:	Measurement Distance: 3m (Semi-Anechoic Chamber)				
Receiver setup:	Frequency	Detector	RBW	VBW	Value
	9kHz-150KHz	Quasi-peak	200Hz	1kHz	Quasi-peak Value
	150kHz-30MHz	Quasi-peak	9kHz	30kHz	Quasi-peak Value
	30MHz-1GHz	Quasi-peak	100KHz	300KHz	Quasi-peak Value
	Above 1GHz	Peak	1MHz	3MHz	Peak Value
AV		1MHz	3MHz	Average Value	
Limit:	Frequency	Limit (uV/m)	Value	Measurement Distance	
	0.009MHz-0.490MHz	2400/F(KHz)	QP	300m	
	0.490MHz-1.705MHz	24000/F(KHz)	QP	300m	
	1.705MHz-30MHz	30	QP	30m	
	30MHz-88MHz	100	QP	3m	
	88MHz-216MHz	150	QP		
	216MHz-960MHz	200	QP		
	960MHz-1GHz	500	QP		
	Above 1GHz	500	Average		
		5000	Peak		
Test Procedure:	<p>Substitution method was performed to determine the actual ERP emission levels of the EUT.</p> <p>The following test procedure as below:</p> <p>1>.Below 1GHz test procedure:</p> <ol style="list-style-type: none"> The EUT was placed on the top of a rotating table (0.8m for below 1GHz and 1.5 meters for above 1GHz) above the ground at a 3 meter camber. 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 				

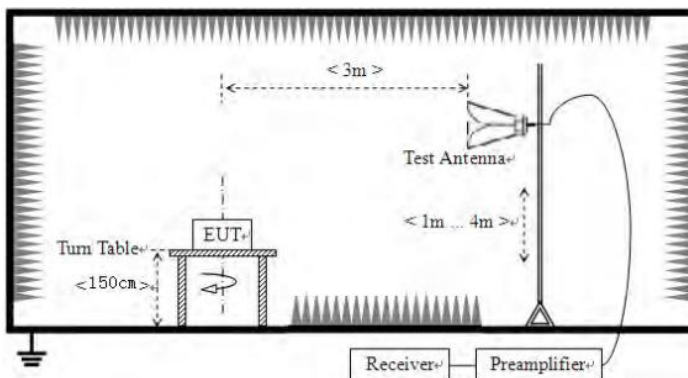
	<p>meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.</p> <ol style="list-style-type: none"> 5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. 6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet. <p>2>.Above 1GHz test procedure:</p> <ol style="list-style-type: none"> 1. On the test site as test setup graph above,the EUT shall be placed at the 0.8m support on the turntable and in the position closest to normal use as declared by the provider. 2. The test antenna shall be oriented initially for vertical polarization and shall be chosen to correspond to the frequency of the transmitter.The output of the test antenna shall be connected to the measuring receiver. 3. The transmitter shall be switched on, if possible, without modulation and the measuring receiver shall be tuned to the frequency of the transmitter under test. 4. The test antenna shall be raised and lowered from 1m to 4m until a maximum signal level is detected by the measuring receiver. Then the turntable should be rotated through 360° in the horizontal plane, until the maximum signal level is detected by the measuring receiver. 5. Repeat step 4 for test frequency with the test antenna polarized horizontally. 6. Remove the transmitter and replace it with a substitution antenna 7. Feed the substitution antenna at the transmitter end with a signal generator connected to the antenna by means of a nonradiating cable. With the antennas at both ends vertically polarized, and with the signal generator tuned to a particular test frequency, raise and lower the test antenna to obtain a maximum reading at the spectrum analyzer. Adjust the level of the signal generator output until the previously recorded maximum reading for this set of conditions is obtained. This should be done carefully repeating the adjustment of the test antenna and generator output. 8. Repeat step 7 with both antennas horizontally polarized for each test frequency. 9. Calculate power in dBm into a reference ideal half-wave dipole antenna by reducing the readings obtained in steps 7 and 8 by the power loss in the cable between the generator and the antenna, and further corrected for the gain of the substitution antenna used relative to an ideal half-wave dipole antenna by the following formula: $\text{EIRP(dBm)} = \text{Pg(dBm)} - \text{cable loss (dB)} + \text{antenna gain (dBi)}$ where: Pg is the generator output power into the substitution antenna.
Test setup:	For radiated emissions from 9kHz to 30MHz



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



Test Instruments:	Refer to section 6 for details					
Test mode:	Refer to section 5.2 for details					
Test environment:	Temp.:	26 °C	Humid.:	54%	Press.:	1012mbar
Test voltage:	DC 5V					
Test results:	Pass					

Remarks:

1. Only the worst case Main Antenna test data.
2. Pre-scan all kind of the place mode (X-axis, Y-axis, Z-axis), and found the Y-axis which it is worse case.

Please refer to following plots of the worst case

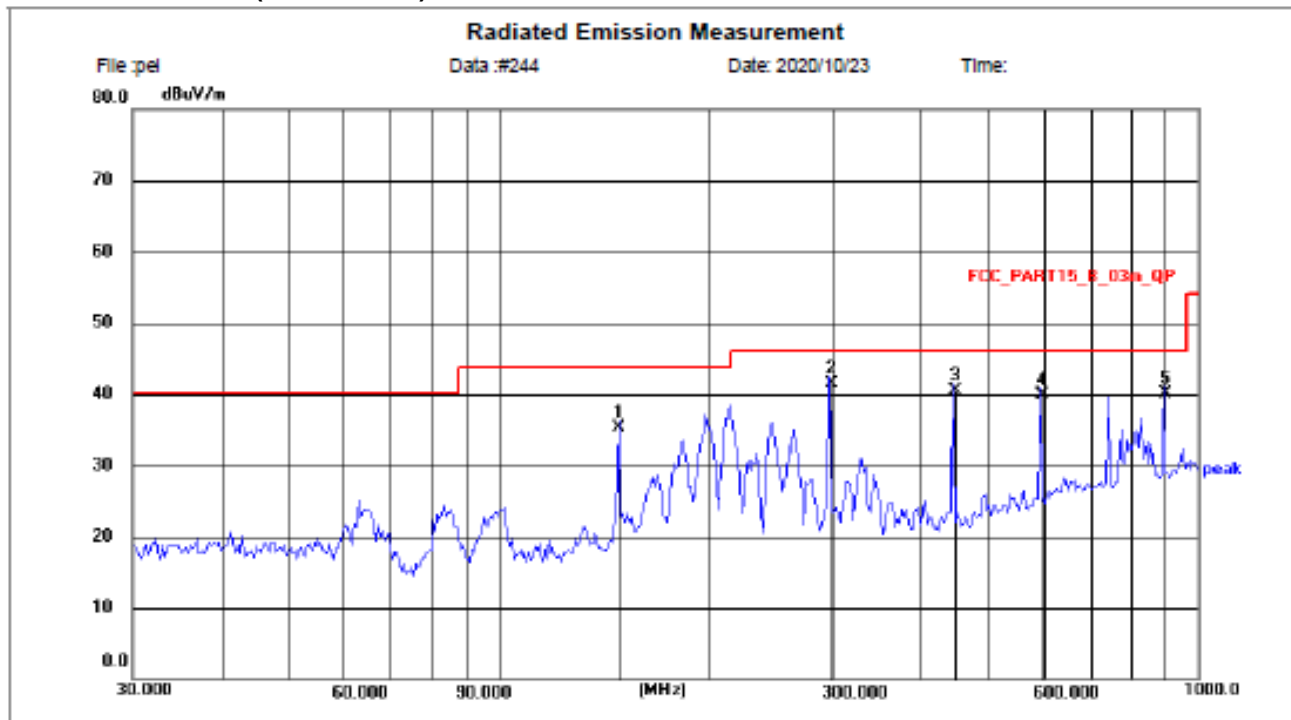
Note: We tested 802.11a/n mode the all data rate and recorded the worst case data for this channel to be 6Mbps for 802.11a mode and MCS0 for 802.11n mode.

9 kHz ~ 30 MHz

The low frequency, which started from 9 kHz to 30 MHz, was pre-scanned and the result which was 20 dB lower than the limit line per 15.31(o) was not reported.

30MHz~ 1GHz

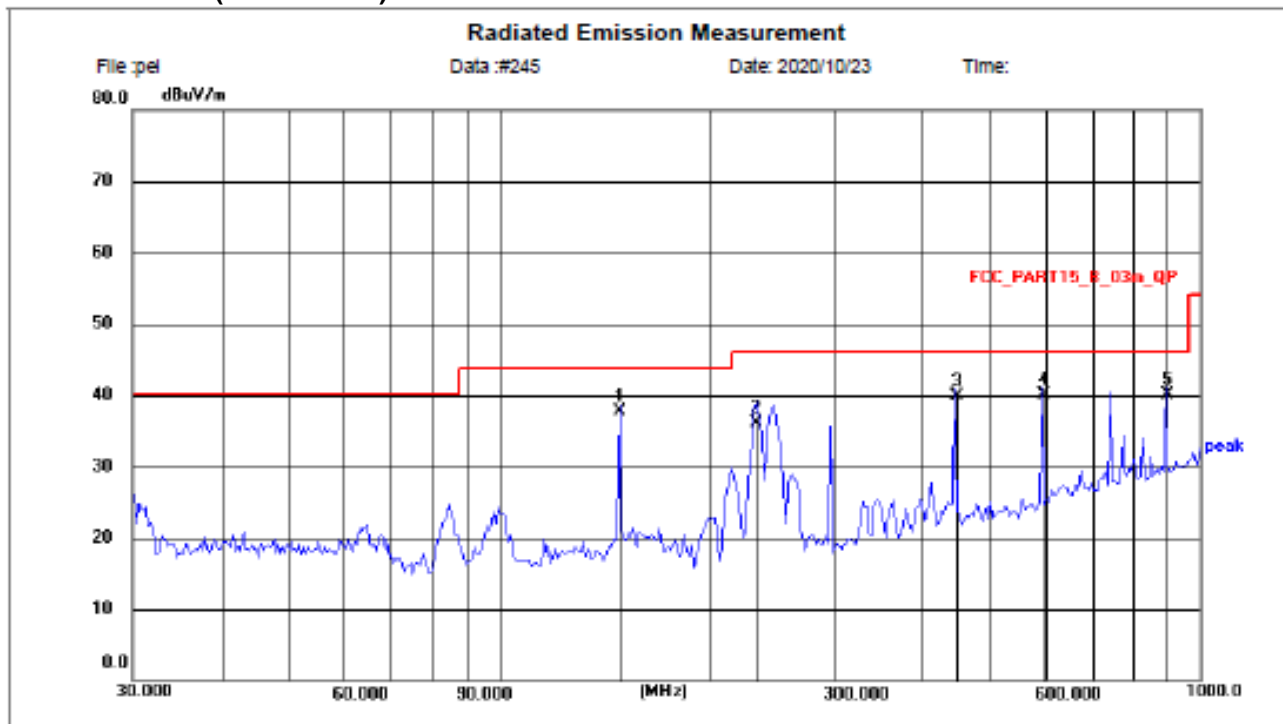
Horizontal: 802.11a (TX 5180MHz)



Site: 966 Chamber Polarization: *Horizontal* Temperature: 26(C)
 Limit: FCC_PART15_B_03m_QP Power: DC 5V Humidity: 54 %
 EUT: Vaxis wireless video system Distance: 3m
 M/N: Vaxis Atom 500 SDI TX
 Mode: 802.11a (TX 5180MHz)
 Note: Hunan GM innovation technology Co.,Ltd
 Transmitter

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	148.4410	19.70	15.66	35.36	43.50	8.14	QP	100	256	P	
2 *	297.2241	26.84	14.69	41.53	46.00	4.47	QP	114	328	P	
3	446.4141	22.45	17.96	40.41	46.00	5.59	QP	115	257	P	
4	595.1329	19.57	20.42	39.99	46.00	6.01	QP	152	306	P	
5	893.8567	16.06	23.99	40.05	46.00	5.95	QP	100	52	P	

Vertical: 802.11a (TX 5180MHz)



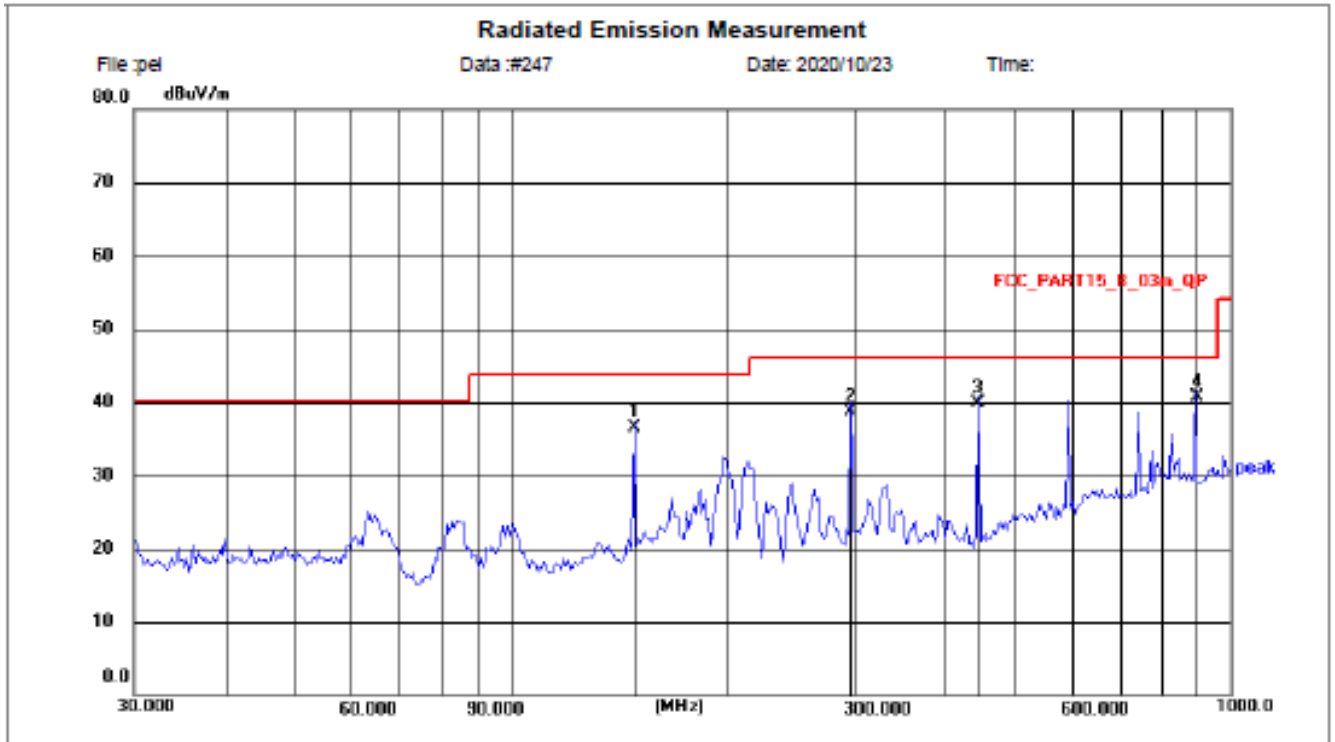
Site: 966 Chamber
 Limit: FCC_PART15_B_03m_QP
 EUT: Vaxis wireless video system
 M/N: Vaxis Atom 500 SDI TX
 Mode: 802.11a (TX 5180MHz)
 Note: Hunan GM innovation technology Co.,Ltd
 Transmitter

Polarization: **Vertical**
 Power: DC 5V
 Distance: 3m

Temperature: 26(C)
 Humidity: 54 %

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1 *	148.4410	22.11	15.66	37.77	43.50	5.73	QP	125	250	P	
2	232.5318	23.08	13.05	36.13	46.00	9.87	QP	144	285	P	
3	446.4141	22.04	17.96	40.00	46.00	6.00	QP	148	255	P	
4	595.1329	19.63	20.42	40.05	46.00	5.95	QP	100	258	P	
5	893.8567	18.12	23.99	40.11	46.00	5.89	QP	100	157	P	

Horizontal: 802.11a (TX 5240MHz)



Site: 966 Chamber Polarization: *Horizontal* Temperature: 26(C)

Limit: FCC_PART15_B_03m_QP Power: DC 5V Humidity: 54 %

EUT: Vaxis wireless video system Distance: 3m

M/N: Vaxis Atom 500 SDI TX

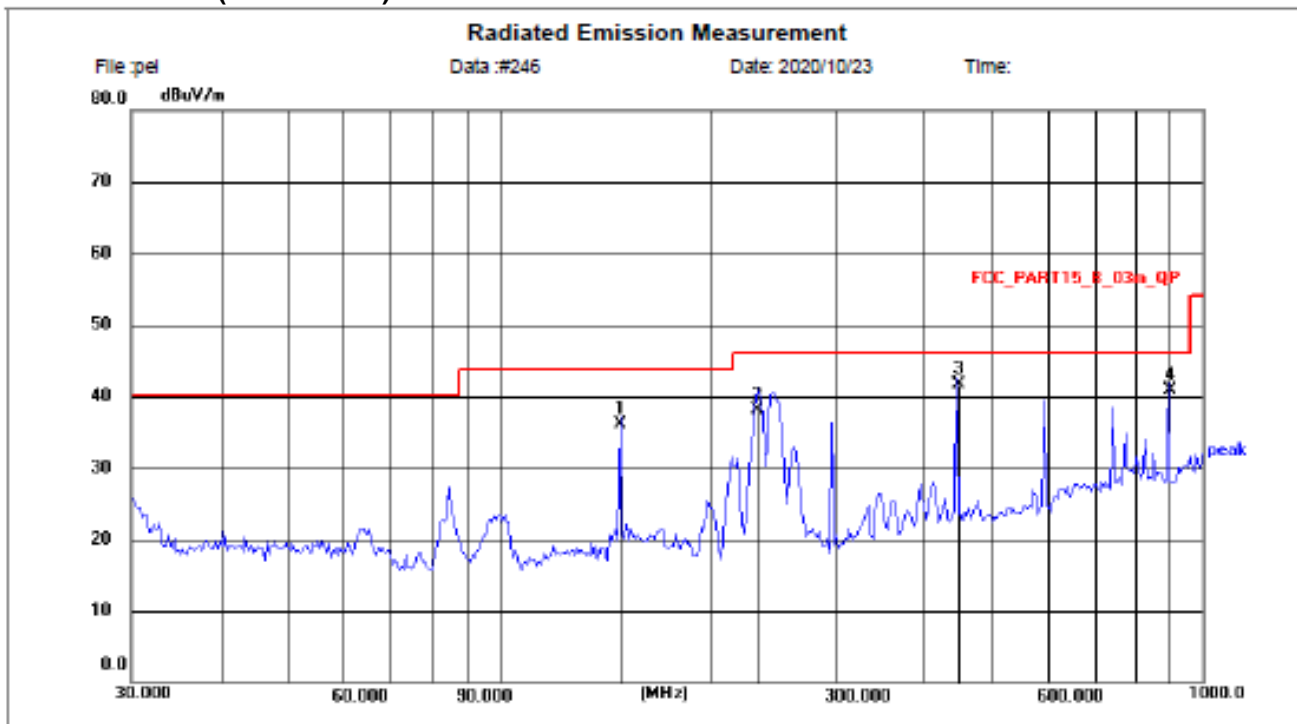
Mode: 802.11a (TX 5240MHz)

Note: Hunan GM innovation technology Co.,Ltd

Transmitter

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	148.4410	20.82	15.66	36.48	43.50	7.02	QP	120	24	P	
2	297.2238	24.00	14.69	38.69	46.00	7.31	QP	135	247	P	
3	446.4139	22.01	17.96	39.97	46.00	6.03	QP	148	15	P	
4 *	893.8565	16.76	23.99	40.75	46.00	5.25	QP	152	153	P	

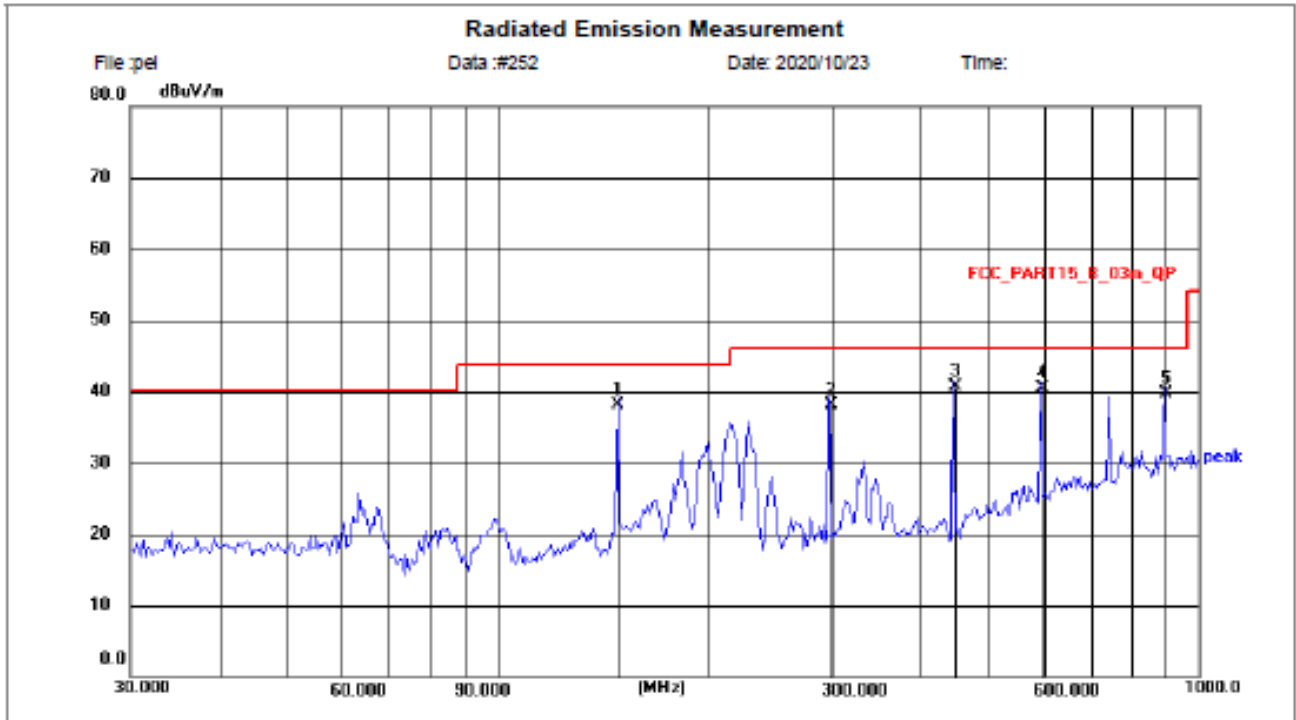
Vertical: 802.11a (TX 5240MHz)



Site: 966 Chamber	Polarization: Vertical	Temperature: 26(C)
Limit: FCC_PART15_B_03m_QP	Power: DC 5V	Humidity: 54 %
EUT: Vaxis wireless video system	Distance: 3m	
M/N: Vaxis Atom 500 SDI TX		
Mode: 802.11a (TX 5240MHz)		
Note: Hunan GM innovation technology Co.,Ltd		
Transmitter		

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	148.4410	20.51	15.66	36.17	43.50	7.33	QP	150	325	P	
2	232.5318	24.97	13.05	38.02	46.00	7.98	QP	157	305	P	
3 *	446.4140	23.70	17.96	41.66	46.00	4.34	QP	124	38	P	
4	893.8568	18.95	23.99	40.94	46.00	5.06	QP	120	185	P	

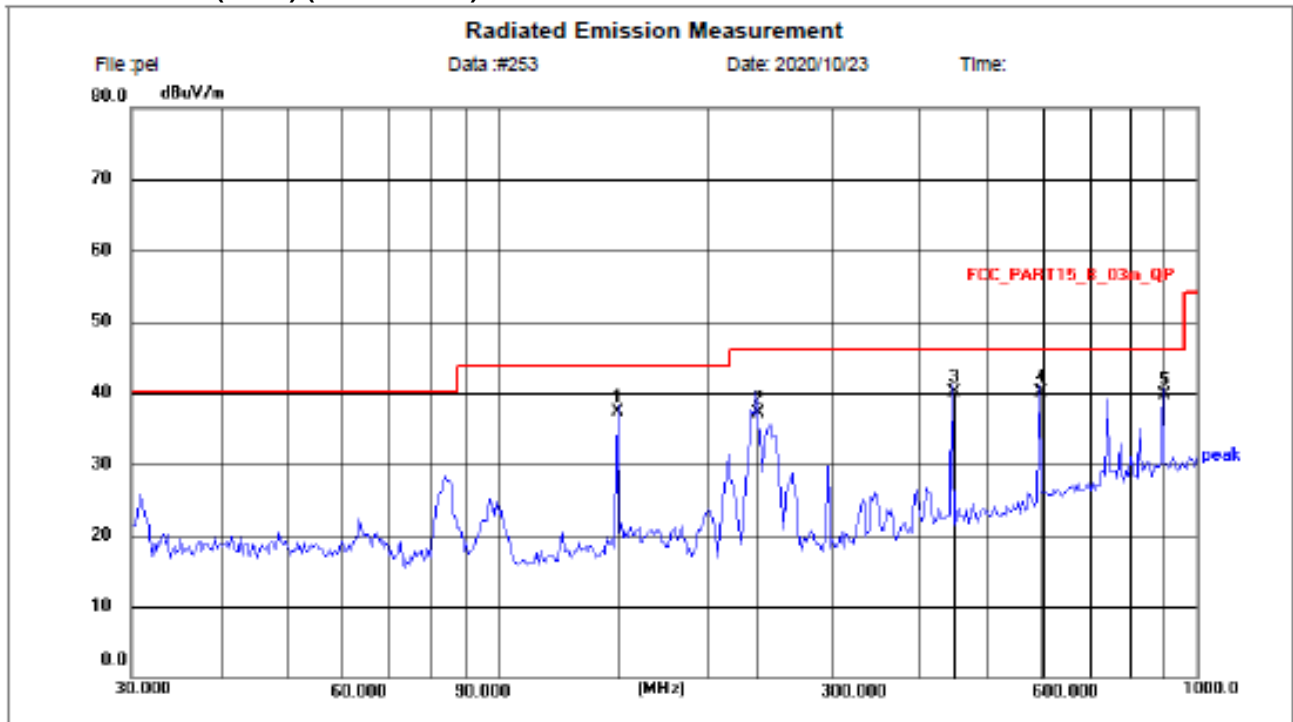
Horizontal: 802.11n (HT20) (TX 5180MHz)



Site 966 Chamber Polarization: *Horizontal* Temperature: 26(C)
 Limit: FCC_PART15_B_03m_QP Power: DC 5V Humidity: 54 %
 EUT: Vaxis wireless video system Distance: 3m
 M/N: Vaxis Atom 500 SDI TX
 Mode: 802.11n (TX 5180MHz)
 Note: Hunan GM innovation technology Co.,Ltd
 Transmitter

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	148.4410	22.40	15.66	38.06	43.50	5.44	QP	165	28	P	
2	297.2240	23.40	14.69	38.09	46.00	7.91	QP	110	285	P	
3 *	446.4140	22.65	17.96	40.61	46.00	5.39	QP	115	247	P	
4	595.1327	20.07	20.42	40.49	46.00	5.51	QP	132	95	P	
5	893.8566	15.78	23.99	39.77	46.00	6.23	QP	168	88	P	

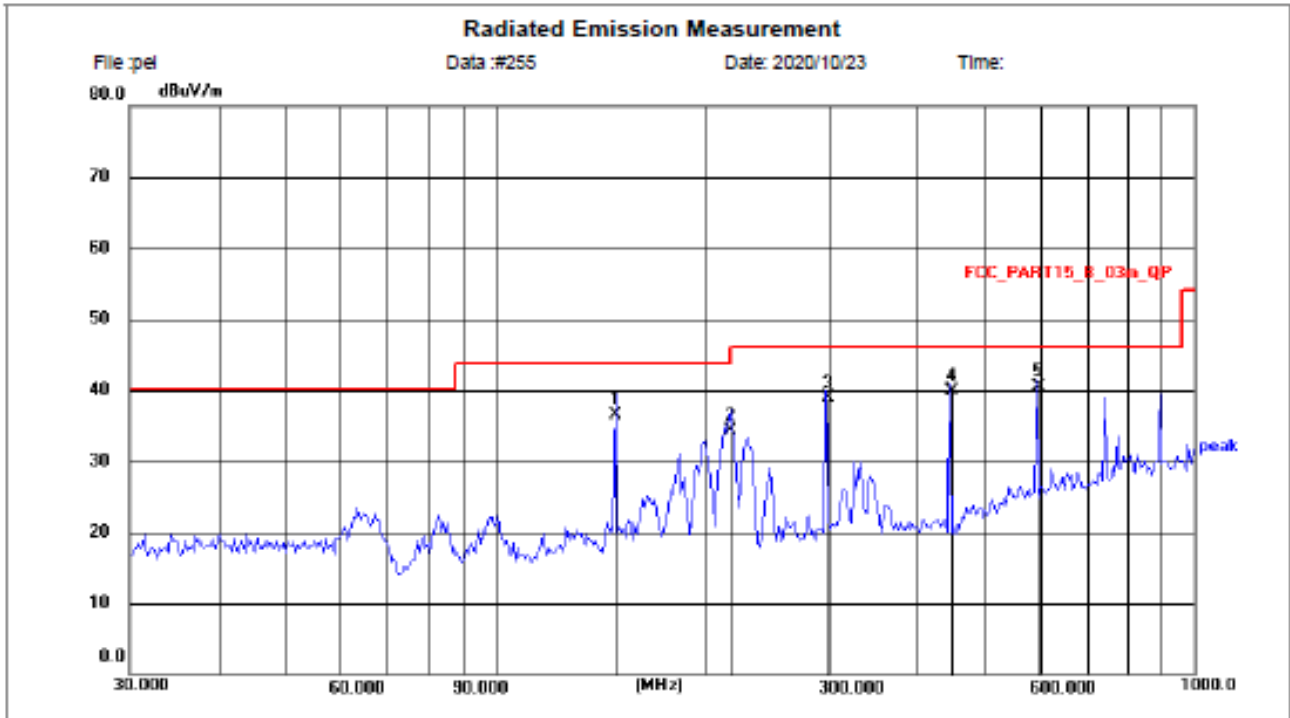
Vertical: 802.11n (HT20) (TX 5180MHz)



Site: 966 Chamber	Polarization: Vertical	Temperature: 26(C)
Limit: FCC_PART15_B_03m_QP	Power: DC 5V	Humidity: 54 %
EUT: Vaxis wireless video system	Distance: 3m	
M/N: Vaxis Atom 500 SDI TX		
Mode: 802.11n (TX 5180MHz)		
Note: Hunan GM innovation technology Co.,Ltd		
Transmitter		

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	148.4410	21.64	15.66	37.30	43.50	6.20	QP	128	174	P	
2	234.1684	24.05	13.11	37.16	46.00	8.84	QP	141	280	P	
3	446.4141	22.17	17.96	40.13	46.00	5.87	QP	115	27	P	
4 *	595.1329	19.75	20.42	40.17	46.00	5.83	QP	152	195	P	
5	893.8567	15.74	23.99	39.73	46.00	6.27	QP	147	152	P	

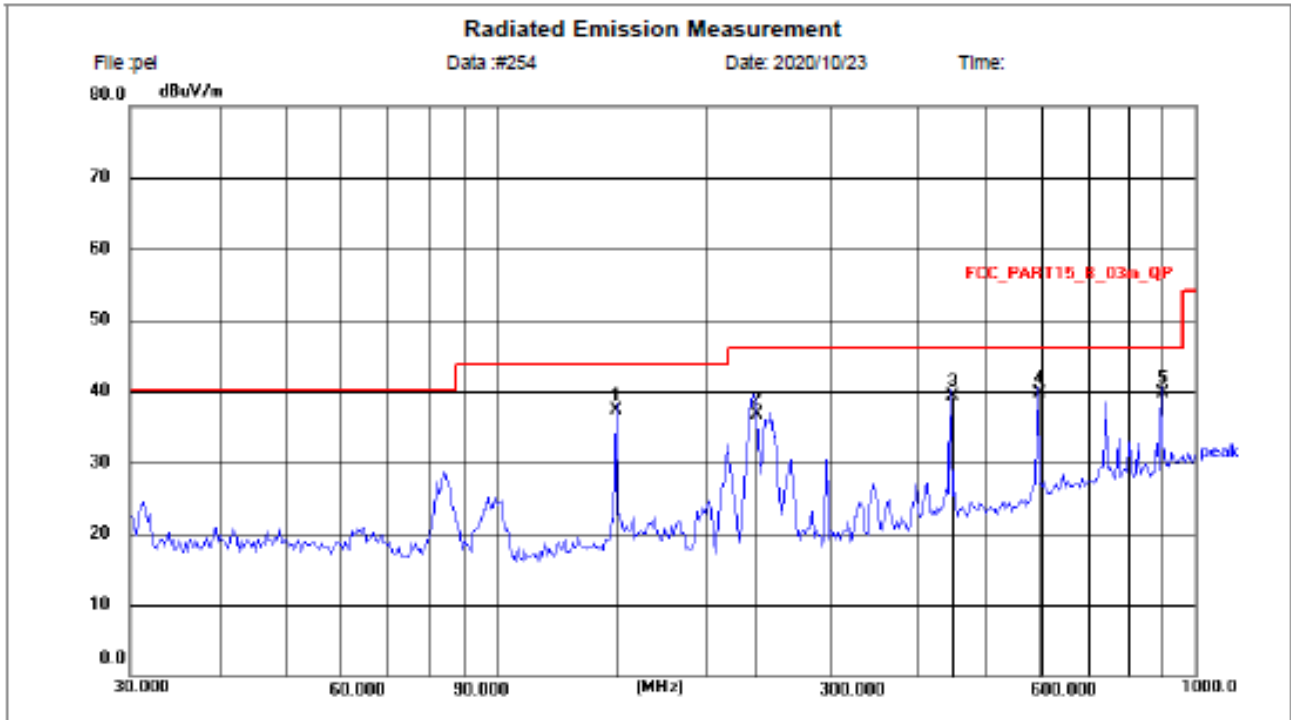
Horizontal: 802.11n (HT20) (TX 5240MHz)



Site 966 Chamber Polarization: *Horizontal* Temperature: 26(C)
 Limit: FCC_PART15_B_03m_QP Power: DC 5V Humidity: 54 %
 EUT: Vaxis wireless video system Distance: 3m
 M/N: Vaxis Atom 500 SDI TX
 Mode: 802.11n (TX 5240MHz)
 Note: Hunan GM innovation technology Co.,Ltd
 Transmitter

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	148.4410	20.85	15.66	36.51	43.50	6.99	QP	154	256	P	
2	216.7828	21.95	12.41	34.36	46.00	11.64	QP	100	258	P	
3	297.2240	24.14	14.69	38.83	46.00	7.17	QP	125	84	P	
4	446.4140	21.97	17.96	39.93	46.00	6.07	QP	132	158	P	
5 *	595.1327	20.00	20.42	40.42	46.00	5.58	QP	147	325	P	

Vertical: 802.11n (HT20) (TX 5240MHz)

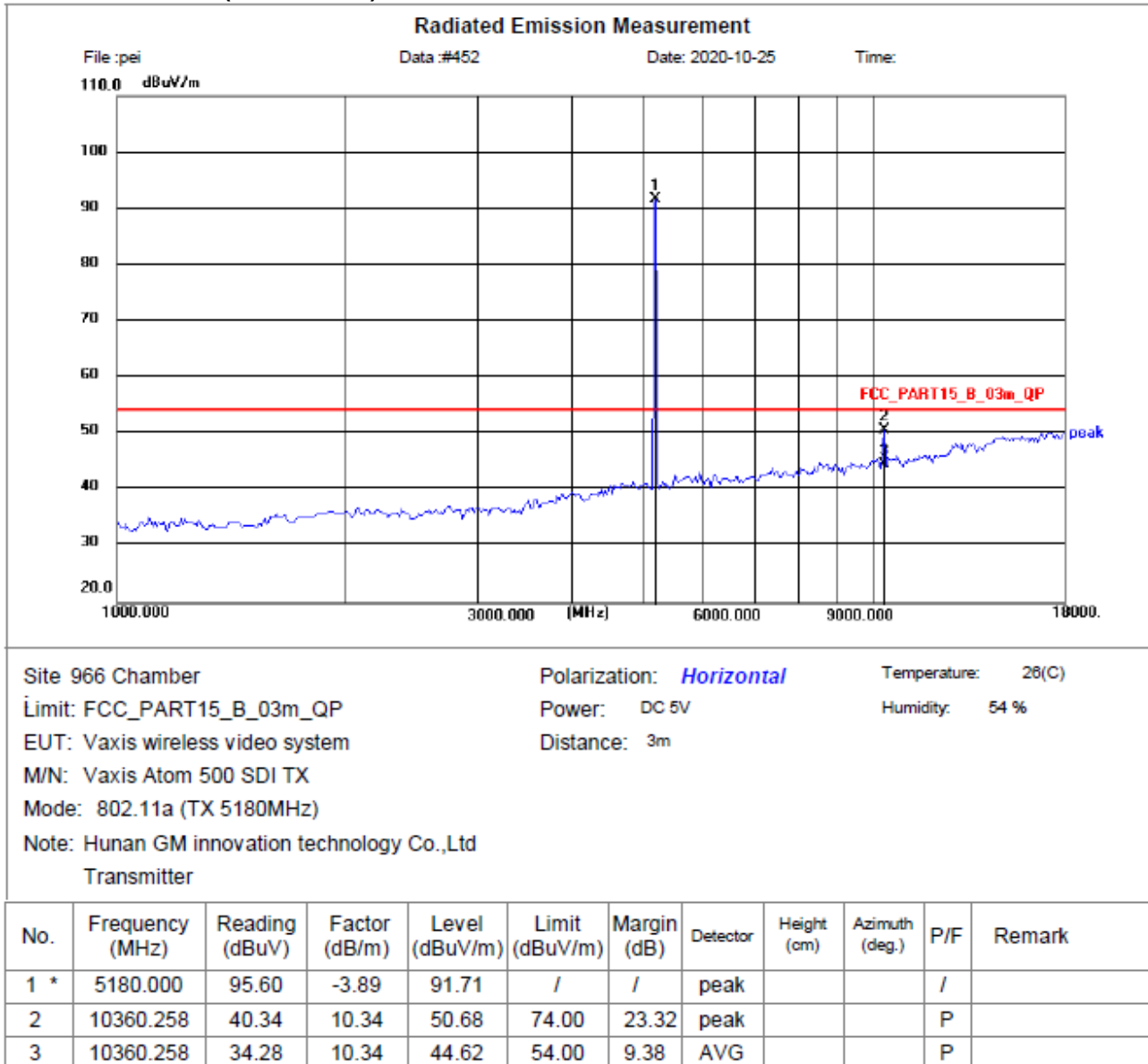


Site: 966 Chamber Polarization: *Vertical* Temperature: 26(C)
 Limit: FCC_PART15_B_03m_QP Power: DC 5V Humidity: 54 %
 EUT: Vaxis wireless video system Distance: 3m
 M/N: Vaxis Atom 500 SDI TX
 Mode: 802.11n (TX 5240MHz)
 Note: Hunan GM innovation technology Co.,Ltd
 Transmitter

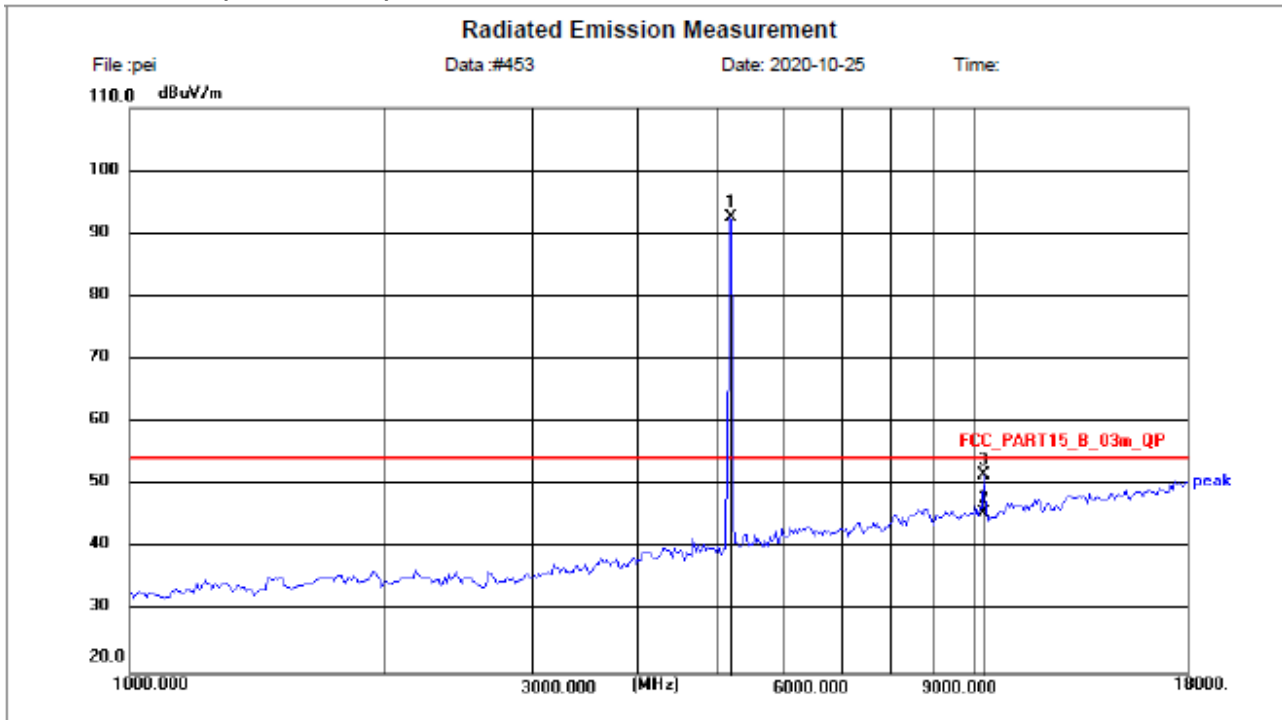
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1 *	148.4410	21.74	15.66	37.40	43.50	6.10	QP	158	325	P	
2	234.1683	23.53	13.11	36.64	46.00	9.36	QP	110	28	P	
3	446.4140	21.25	17.96	39.21	46.00	6.79	QP	115	165	P	
4	595.1327	19.20	20.42	39.62	46.00	6.38	QP	128	245	P	
5	893.8566	15.80	23.99	39.79	46.00	6.21	QP	175	259	P	

1GHz~ 18GHz

Horizontal: 802.11a (TX 5180MHz)



Vertical: 802.11a (TX 5180MHz)



Site 966 Chamber Polarization: **Vertical** Temperature: 26(C)

Limit: FCC_PART15_B_03m_QP Power: DC 5V Humidity: 54 %

EUT: Vaxis wireless video system Distance: 3m

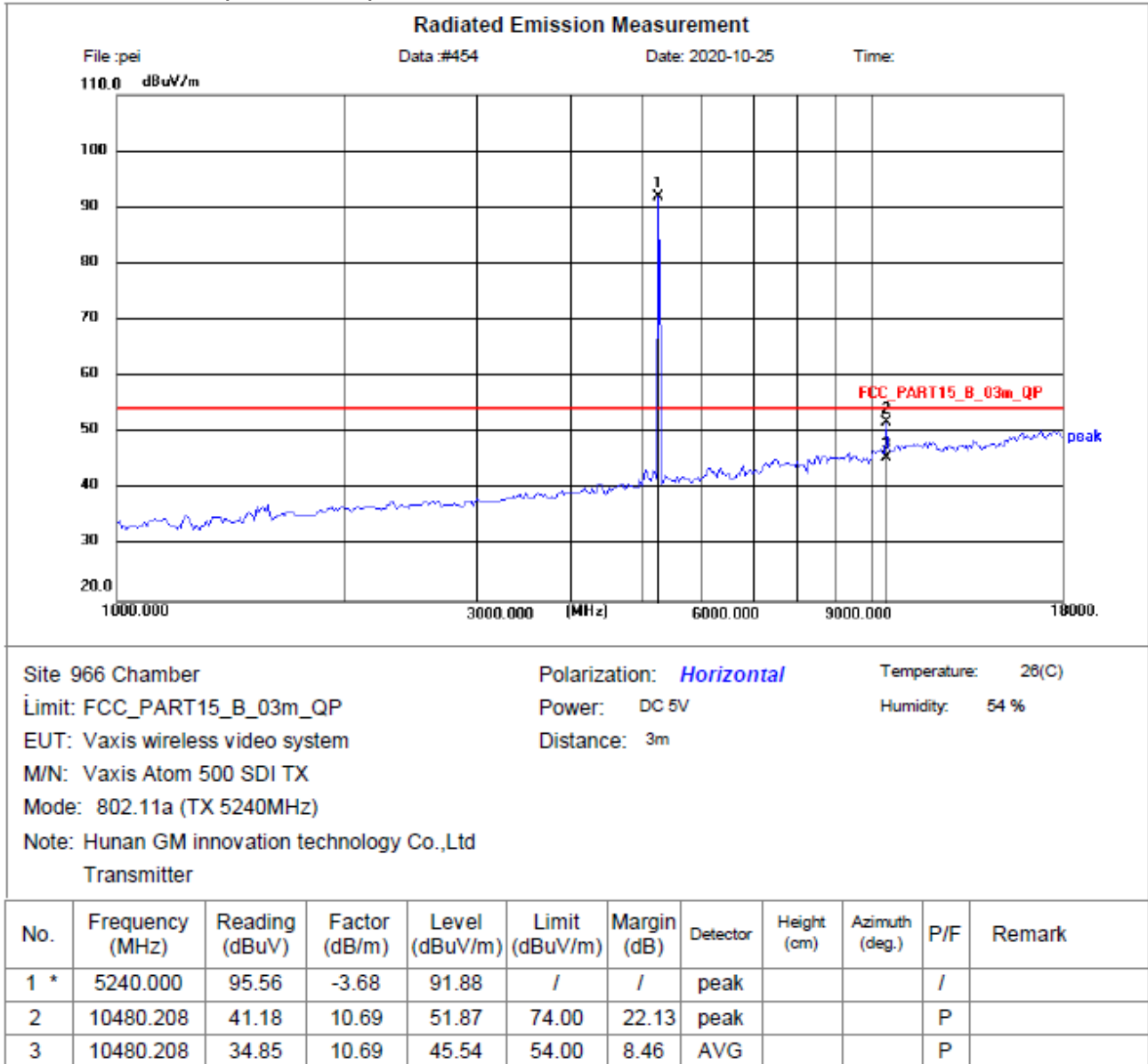
M/N: Vaxis Atom 500 SDI TX

Mode: 802.11a (TX 5180MHz)

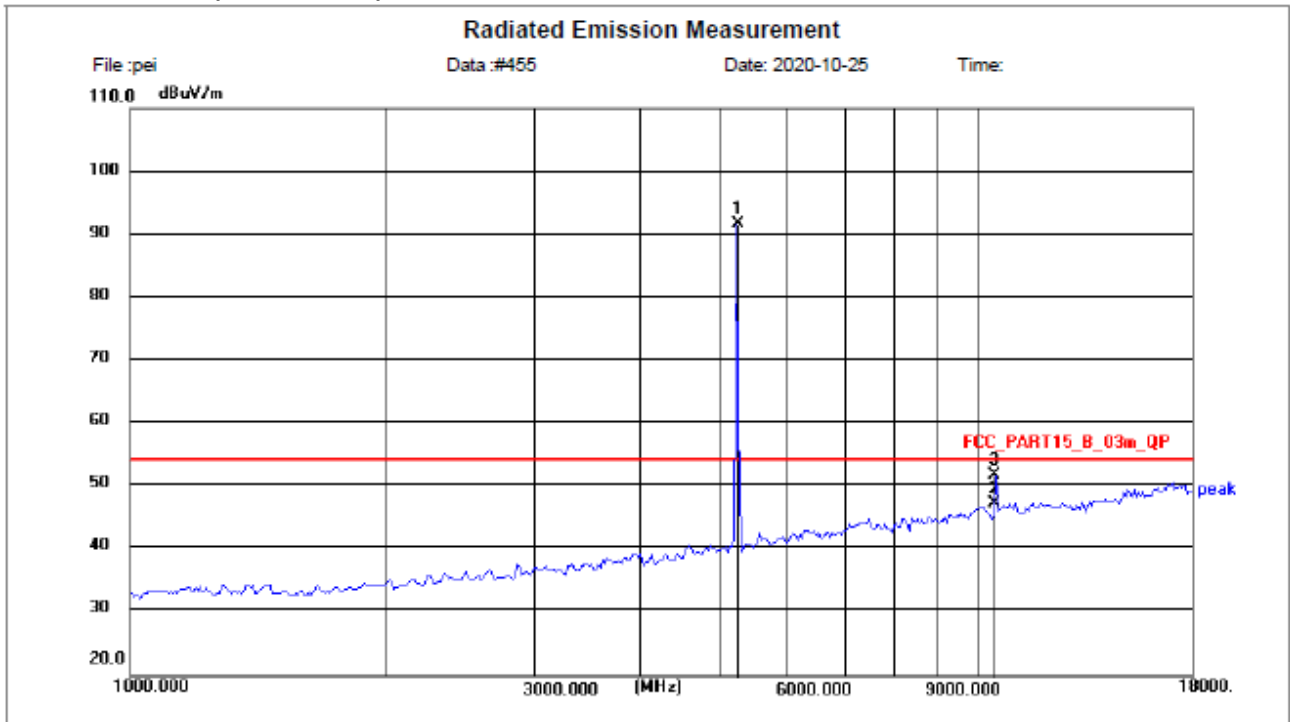
Note: Hunan GM innovation technology Co.,Ltd
Transmitter

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1 *	5180.000	96.49	-3.89	92.60	/	/	peak			/	
2	10360.252	41.26	10.34	51.60	54.00	22.40	peak			P	
3	10360.252	35.13	10.34	45.47	54.00	8.53	AVG			P	

Horizontal: 802.11a (TX 5240MHz)



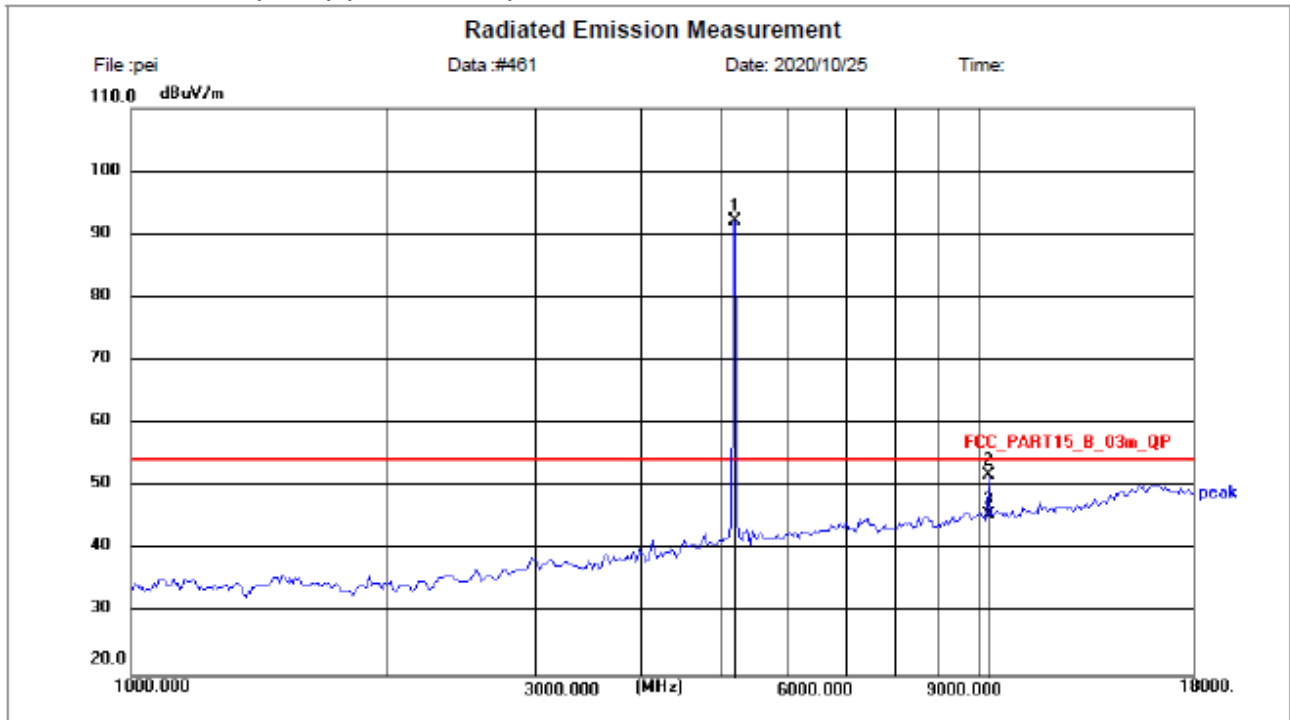
Vertical: 802.11a (TX 5240MHz)



Site: 966 Chamber	Polarization: Vertical	Temperature: 26(C)
Limit: FCC_PART15_B_03m_QP	Power: DC 5V	Humidity: 54 %
EUT: Vaxis wireless video system	Distance: 3m	
M/N: Vaxis Atom 500 SDI TX		
Mode: 802.11a (TX 5240MHz)		
Note: Hunan GM innovation technology Co.,Ltd		
Transmitter		

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1 *	5240.000	95.43	-3.68	91.75	/	/	peak			/	
2	10480.227	36.70	10.69	47.39	74.00	26.61	peak			P	
3	10480.227	41.04	10.69	51.73	54.00	2.27	AVG			P	

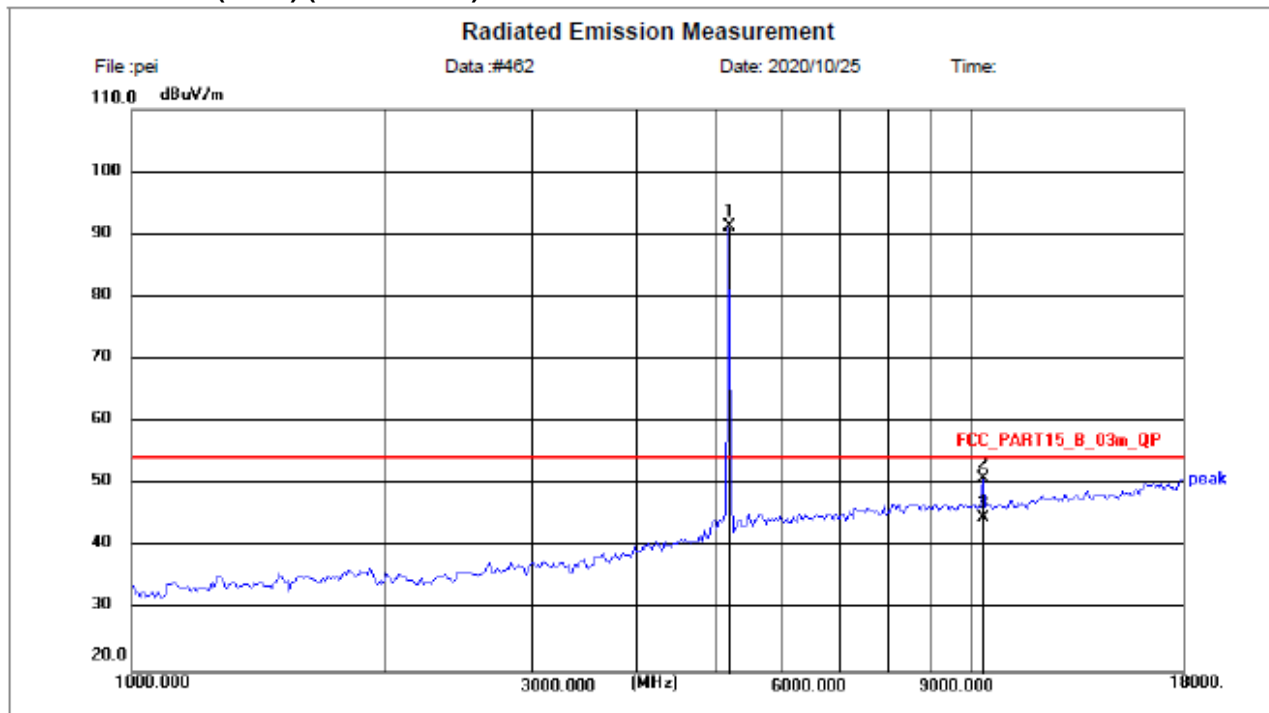
Horizontal: 802.11n (HT20) (TX 5180MHz)



Site 966 Chamber Polarization: *Horizontal* Temperature: 26(C)
 Limit: FCC_PART15_B_03m_QP Power: DC 5V Humidity: 54 %
 EUT: Vaxis wireless video system Distance: 3m
 M/N: Vaxis Atom 500 SDI TX
 Mode: 802.11n (TX 5180MHz)
 Note: Hunan GM innovation technology Co.,Ltd
 Transmitter

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1 *	5180.000	95.90	-3.89	92.01	/	/	peak			/	
2	10360.231	41.44	10.34	51.78	74.00	22.22	peak			P	
3	10360.231	35.19	10.34	45.53	54.00	8.47	AVG			P	

Vertical: 802.11n (HT20) (TX 5180MHz)



Site 966 Chamber Polarization: **Vertical** Temperature: 26(C)

Limit: FCC_PART15_B_03m_QP Power: DC 5V Humidity: 54 %

EUT: Vaxis wireless video system Distance: 3m

M/N: Vaxis Atom 500 SDI TX

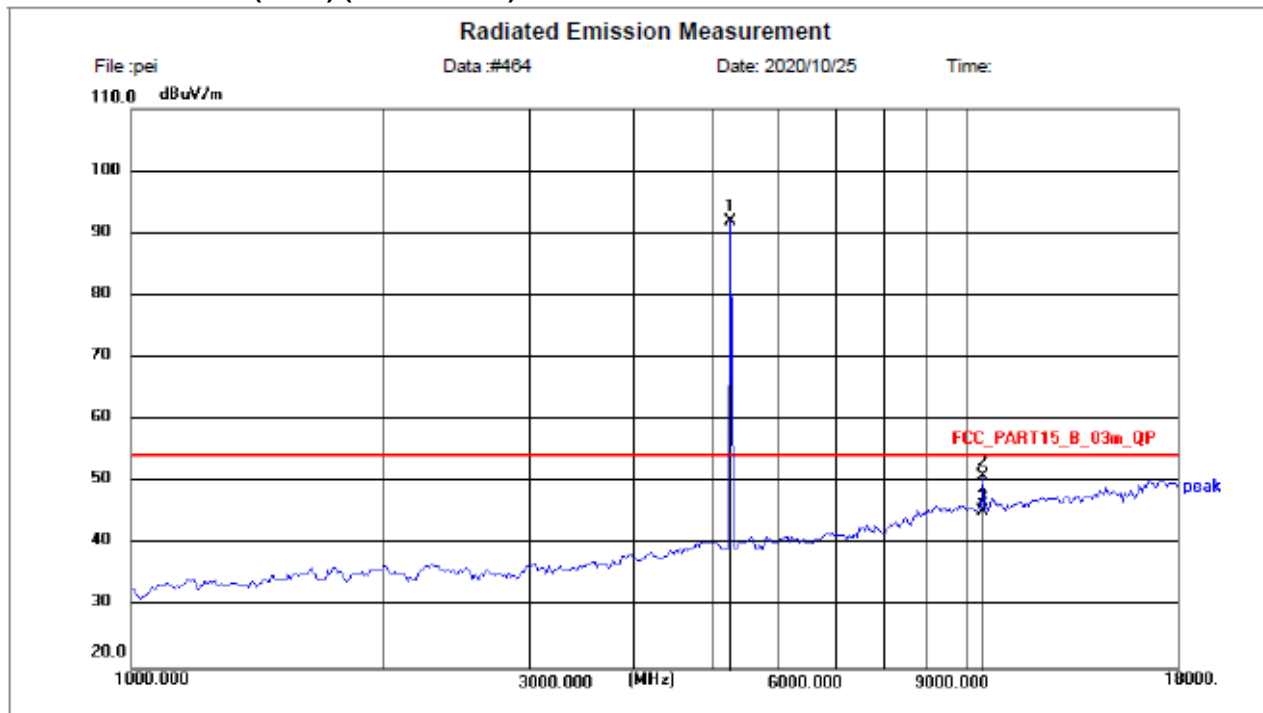
Mode: 802.11n (TX 5180MHz)

Note: Hunan GM innovation technology Co.,Ltd

Transmitter

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1 *	5180.000	95.24	-3.97	91.27	/	/	peak			/	
2	10360.226	40.66	10.34	51.00	74.00	23.00	peak			P	
3	10360.226	34.37	10.34	44.71	54.00	9.29	AVG			P	

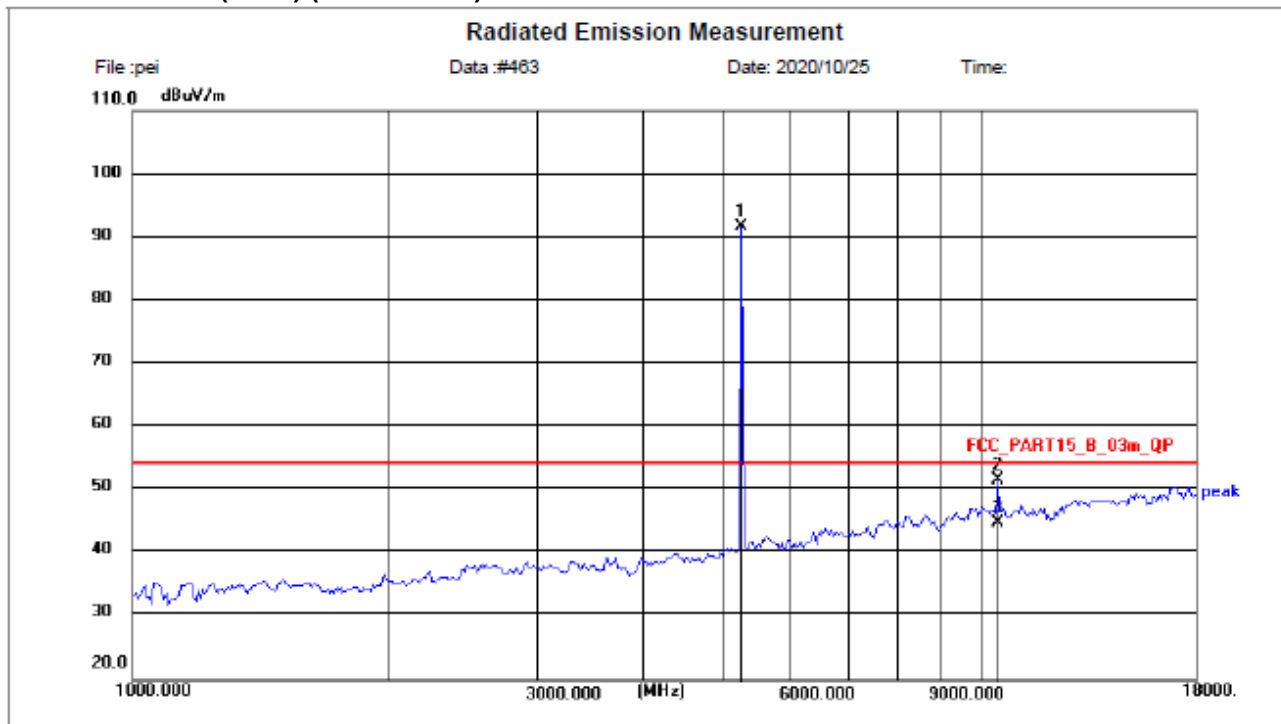
Horizontal: 802.11n (HT20) (TX 5240MHz)



Site 966 Chamber	Polarization: <i>Horizontal</i>	Temperature: 26(C)
Limit: FCC_PART15_B_03m_QP	Power: DC 5V	Humidity: 54 %
EUT: Vaxis wireless video system	Distance: 3m	
M/N: Vaxis Atom 500 SDI TX		
Mode: 802.11n (TX 5240MHz)		
Note: Hunan GM innovation technology Co.,Ltd		
Transmitter		

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1 *	5240.000	95.60	-3.68	91.92	/	/	peak			/	
2	10480.214	40.35	10.69	51.04	74.00	22.96	peak			P	
3	10480.214	34.54	10.77	45.31	54.00	8.69	AVG			P	

Vertical: 802.11n (HT20) (TX 5240MHz)

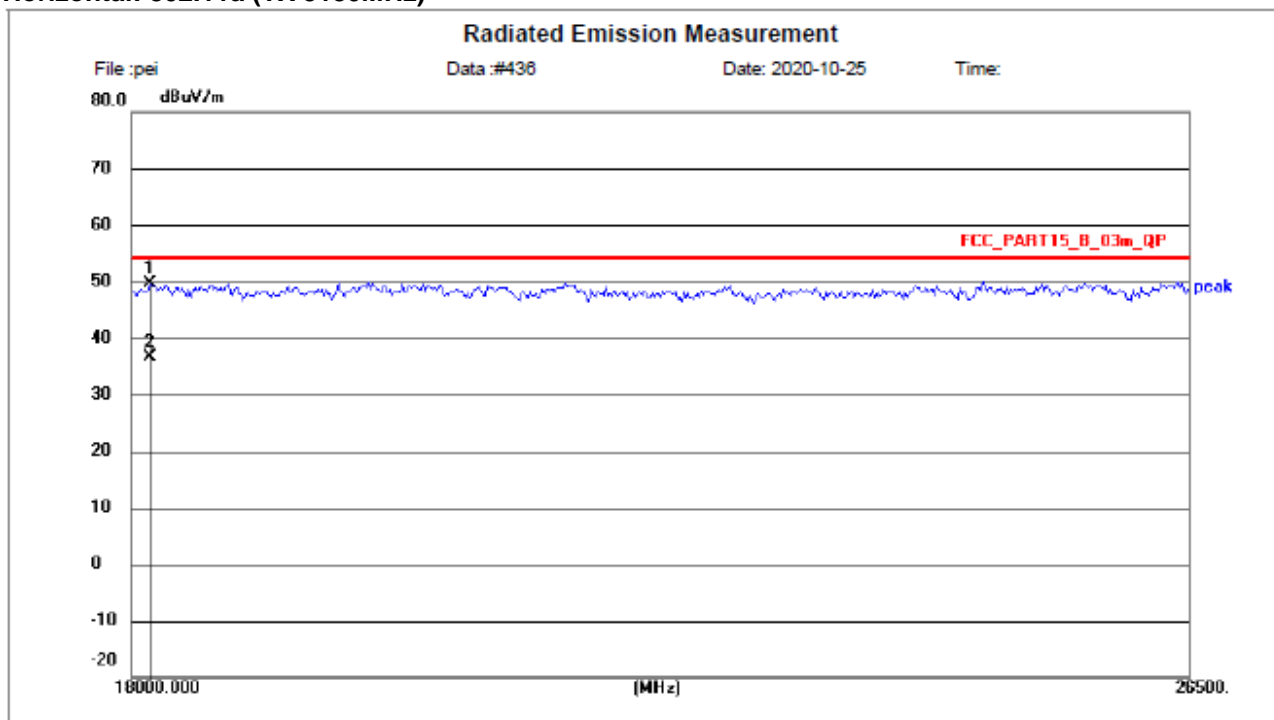


Site 966 Chamber	Polarization: <i>Vertical</i>	Temperature: 28(C)
Limit: FCC_PART15_B_03m_QP	Power: DC 5V	Humidity: 54 %
EUT: Vaxis wireless video system	Distance: 3m	
M/N: Vaxis Atom 500 SDI TX		
Mode: 802.11n (TX 5240MHz)		
Note: Hunan GM innovation technology Co.,Ltd		
Transmitter		

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1 *	5240.000	95.45	-3.68	91.77	/	/	peak			/	
2	10480.188	40.82	10.69	51.51	74.00	22.49	peak			P	
3	10480.188	34.18	10.69	44.87	54.00	9.13	AVG			P	

18GHz~ 26.5GHz

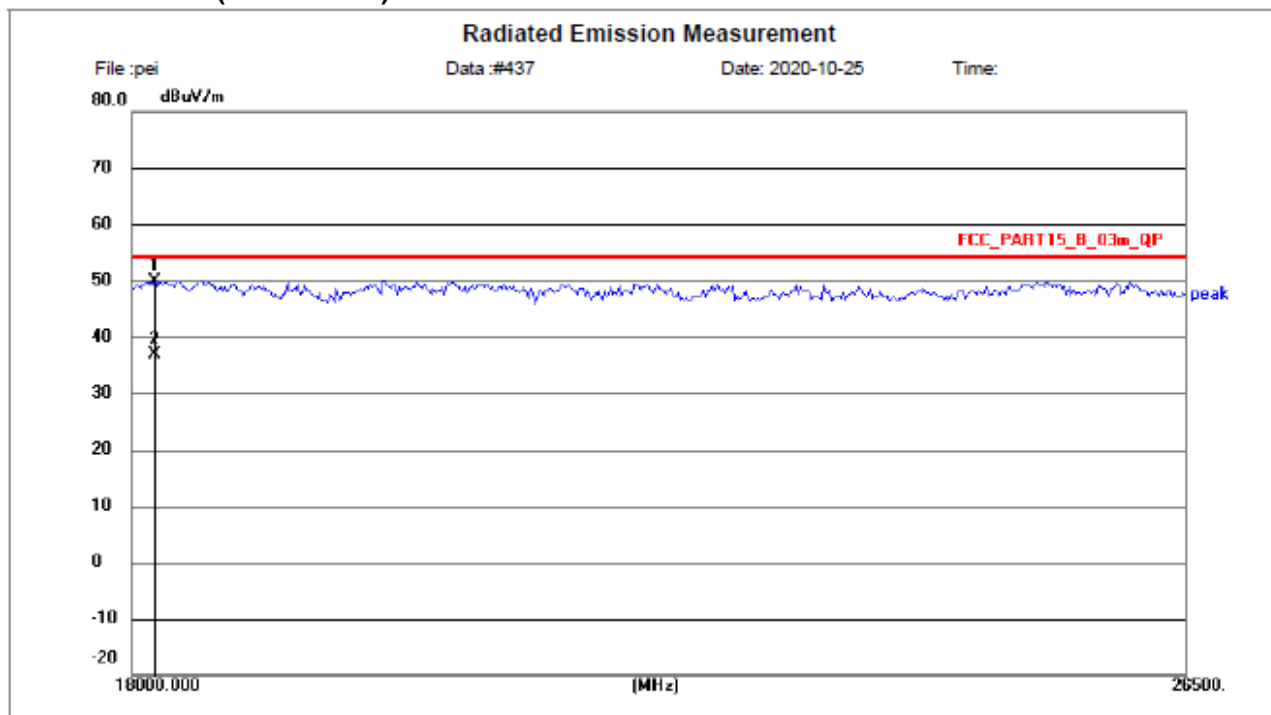
Horizontal: 802.11a (TX 5180MHz)



Site 966 Chamber	Polarization: <i>Horizontal</i>	Temperature: 28(C)
Limit: FCC_PART15_B_03m_QP	Power: DC 5V	Humidity: 54 %
EUT: Vaxis wireless video system	Distance: 3m	
M/N: Vaxis Atom 500 SDI TX		
Mode: 802.11a (TX 5180MHz)		
Note: Hunan GM innovation technology Co.,Ltd		
Transmitter		

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1 *	18136.272	42.28	7.28	49.56	54.00	4.44	peak			P	
2	18136.272	29.29	7.28	36.57	54.00	17.43	AVG			P	

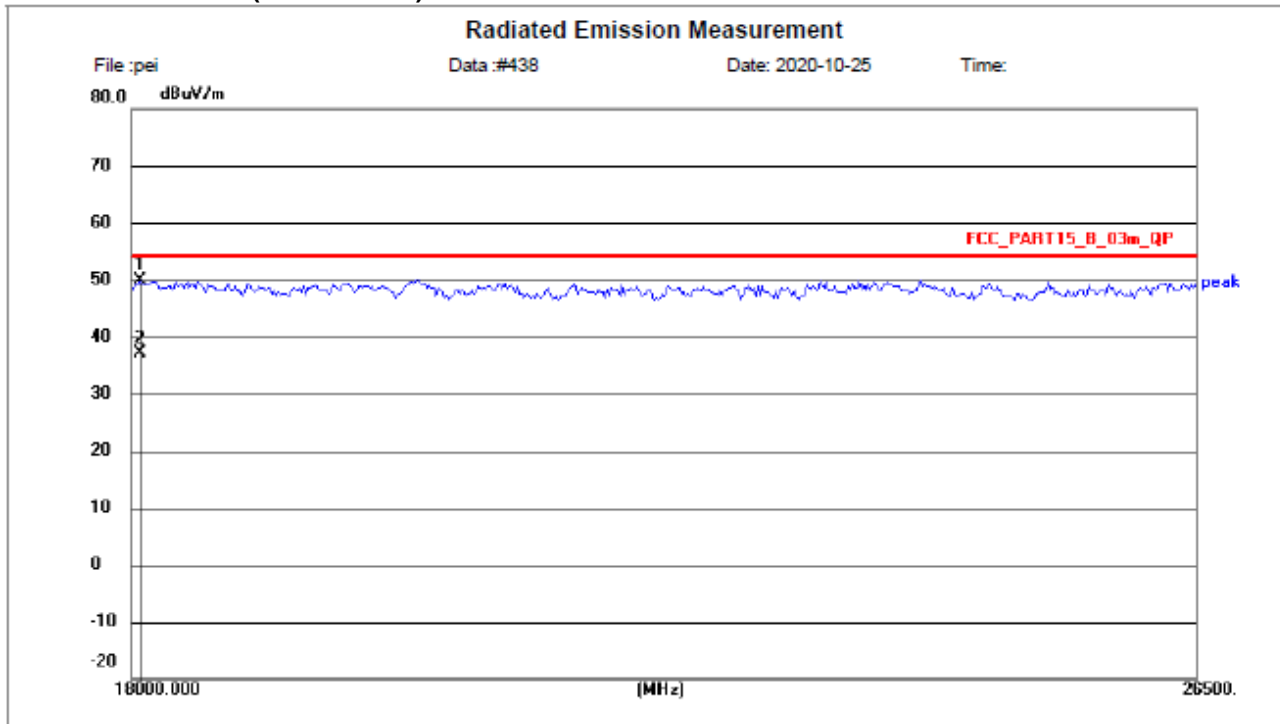
Vertical: 802.11a (TX 5180MHz)



Site 966 Chamber	Polarization: <i>Vertical</i>	Temperature: 26(C)
Limit: FCC_PART15_B_03m_QP	Power: DC 5V	Humidity: 54 %
EUT: Vaxis wireless video system	Distance: 3m	
M/N: Vaxis Atom 500 SDI TX		
Mode: 802.11a (TX 5180MHz)		
Note: Hunan GM innovation technology Co.,Ltd		
Transmitter		

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1 *	18154.125	42.58	7.35	49.93	54.00	4.07	peak			P	
2	18154.125	29.44	7.35	36.79	54.00	17.21	AVG			P	

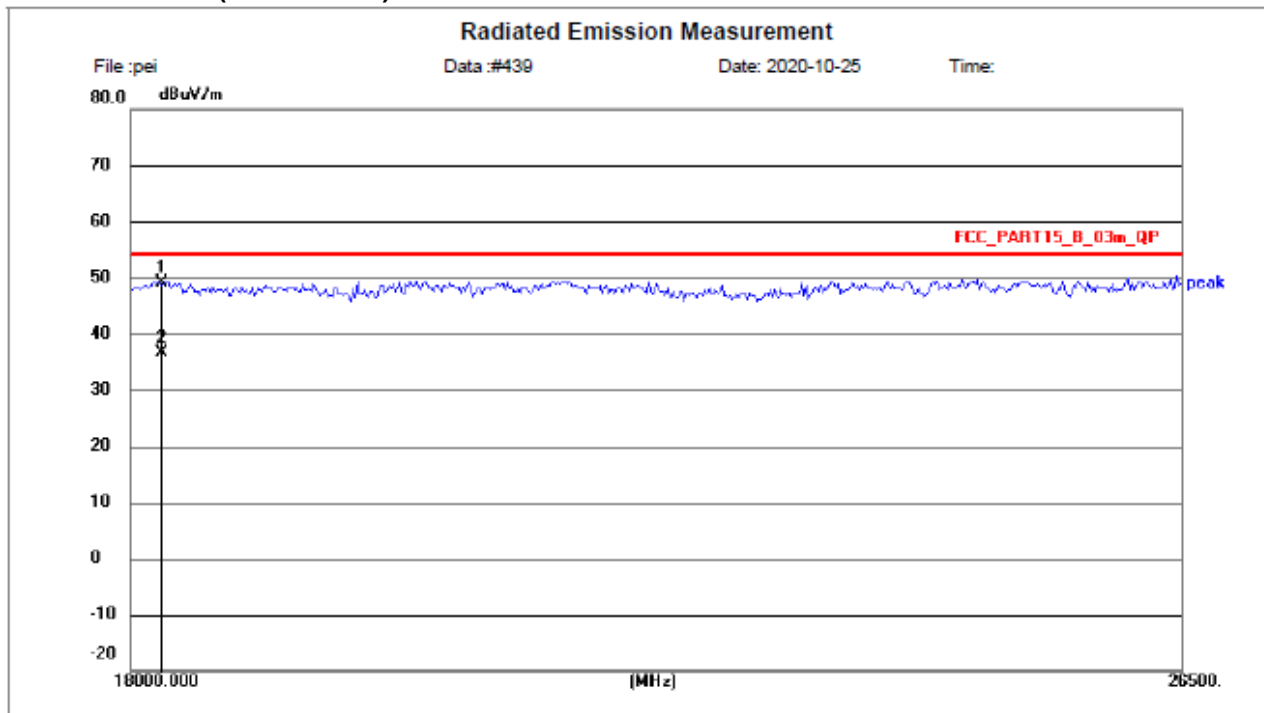
Horizontal: 802.11a (TX 5240MHz)



Site 966 Chamber	Polarization: <i>Horizontal</i>	Temperature: 28(C)
Limit: FCC_PART15_B_03m_QP	Power: DC 5V	Humidity: 54 %
EUT: Vaxis wireless video system	Distance: 3m	
M/N: Vaxis Atom 500 SDI TX		
Mode: 802.11a (TX 5240MHz)		
Note: Hunan GM innovation technology Co.,Ltd		
Transmitter		

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1 *	18068.136	42.80	7.05	49.85	54.00	4.15	peak			P	
2	18068.136	29.98	7.05	37.03	54.00	16.97	AVG			P	

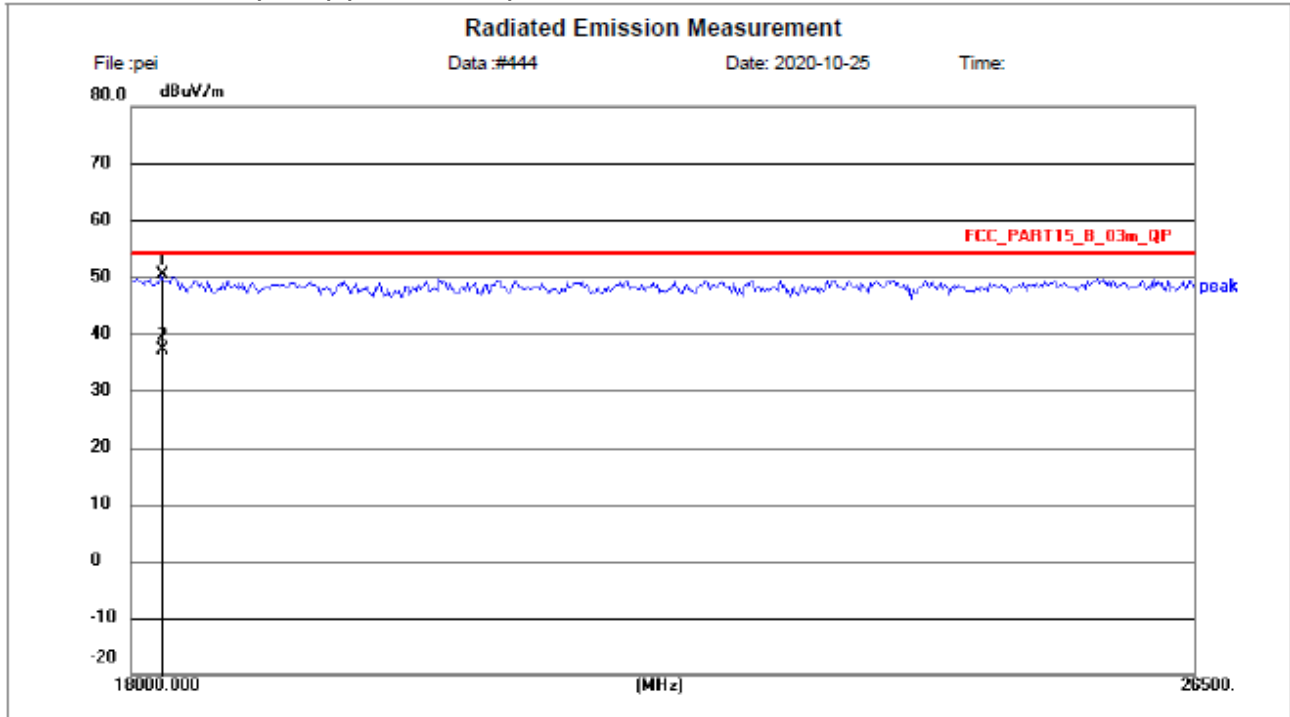
Vertical: 802.11a (TX 5240MHz)



Site 966 Chamber	Polarization: <i>Vertical</i>	Temperature: 26(C)
Limit: FCC_PART15_B_03m_QP	Power: DC 5V	Humidity: 54 %
EUT: Vaxis wireless video system	Distance: 3m	
M/N: Vaxis Atom 500 SDI TX		
Mode: 802.11a (TX 5240MHz)		
Note: Hunan GM innovation technology Co.,Ltd		
Transmitter		

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1 *	18204.409	41.70	7.53	49.23	54.00	4.77	peak			P	
2	18204.409	29.08	7.53	36.61	54.00	17.39	AVG			P	

Horizontal: 802.11n (HT20) (TX 5180MHz)



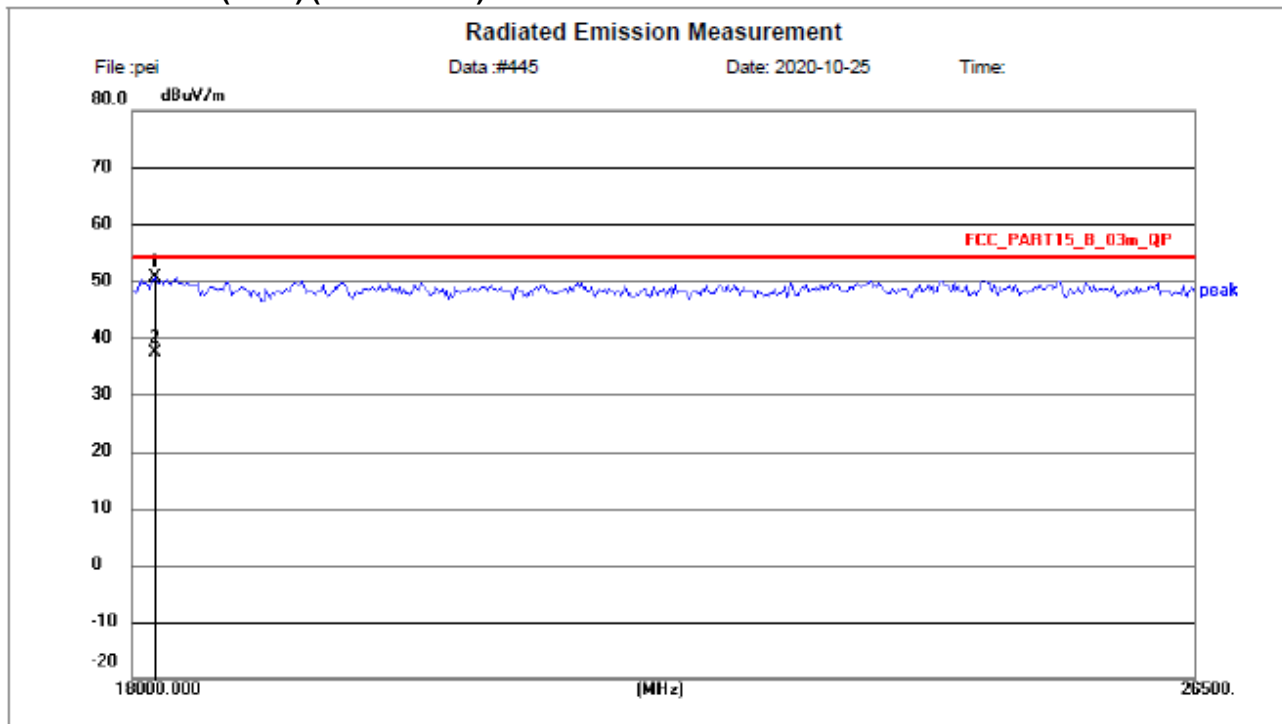
Site 966 Chamber
 Limit: FCC_PART15_B_03m_QP
 EUT: Vaxis wireless video system
 M/N: Vaxis Atom 500 SDI TX
 Mode: 802.11n (TX 5180MHz)
 Note: Hunan GM innovation technology Co.,Ltd
 Transmitter

Polarization: *Horizontal*
 Power: DC 5V
 Distance: 3m

Temperature: 26(C)
 Humidity: 54 %

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1 *	18204.409	42.79	7.53	50.32	54.00	3.68	peak			P	
2	18204.409	29.62	7.53	37.15	54.00	16.85	AVG			P	

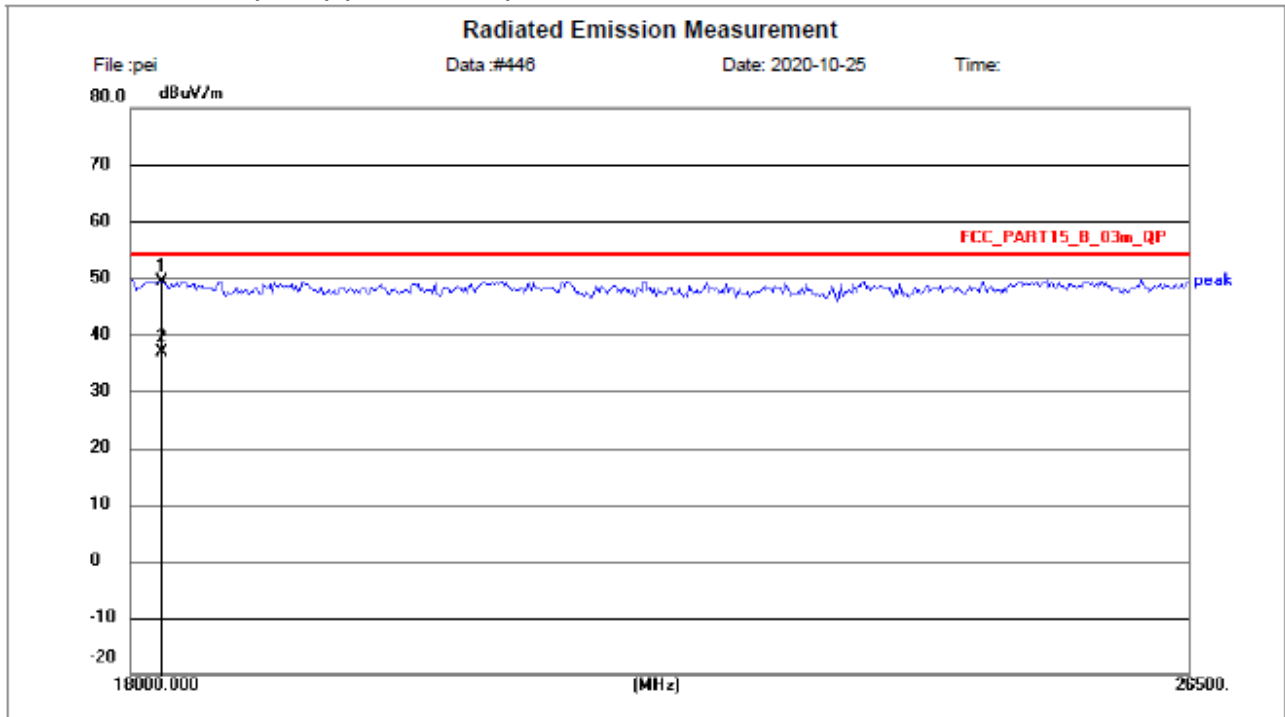
Vertical: 802.11n (HT20) (TX 5180MHz)



Site 966 Chamber	Polarization: <i>Vertical</i>	Temperature: 26(C)
Limit: FCC_PART15_B_03m_QP	Power: DC 5V	Humidity: 54 %
EUT: Vaxis wireless video system	Distance: 3m	
M/N: Vaxis Atom 500 SDI TX		
Mode: 802.11n (TX 5180MHz)		
Note: Hunan GM innovation technology Co.,Ltd		
Transmitter		

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1 *	18154.125	43.38	7.35	50.73	54.00	3.27	peak			P	
2	18154.125	30.14	7.35	37.49	54.00	16.51	AVG			P	

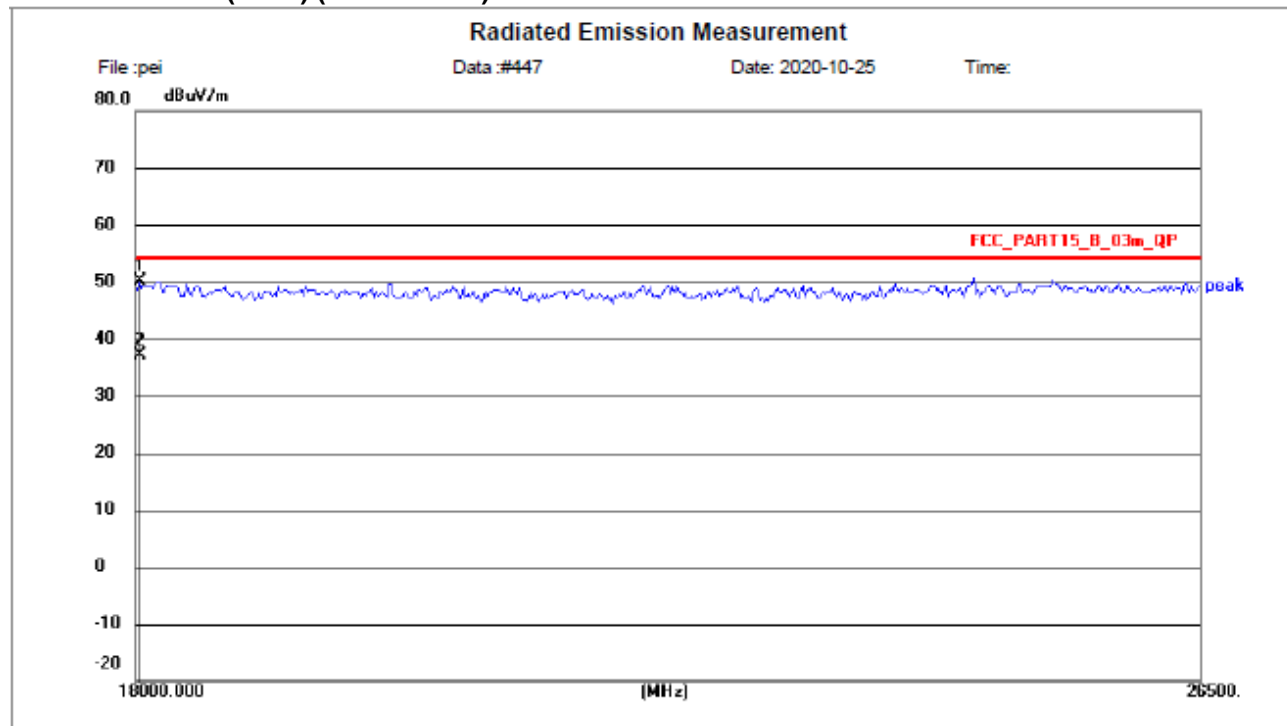
Horizontal: 802.11n (HT20) (TX 5240MHz)



Site: 966 Chamber	Polarization: <i>Horizontal</i>	Temperature: 28(C)
Limit: FCC_PART15_B_03m_QP	Power: DC 5V	Humidity: 54 %
EUT: Vaxis wireless video system	Distance: 3m	
M/N: Vaxis Atom 500 SDI TX		
Mode: 802.11n (TX 5240MHz)		
Note: Hunan GM innovation technology Co.,Ltd Transmitter		

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1 *	18204.409	41.89	7.53	49.42	54.00	4.58	peak			P	
2	18204.409	29.39	7.53	36.92	54.00	17.08	AVG			P	

Vertical: 802.11n (HT20) (TX 5240MHz)



Site 966 Chamber	Polarization: <i>Vertical</i>	Temperature: 28(C)
Limit: FCC_PART15_B_03m_QP	Power: DC 5V	Humidity: 54 %
EUT: Vaxis wireless video system	Distance: 3m	
M/N: Vaxis Atom 500 SDI TX		
Mode: 802.11n (TX 5240MHz)		
Note: Hunan GM innovation technology Co.,Ltd		
Transmitter		

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1 *	18034.068	43.29	6.92	50.21	54.00	3.79	peak			P	
2	18034.068	30.23	6.92	37.15	54.00	16.85	AVG			P	

26.5GHz~ 40GHz

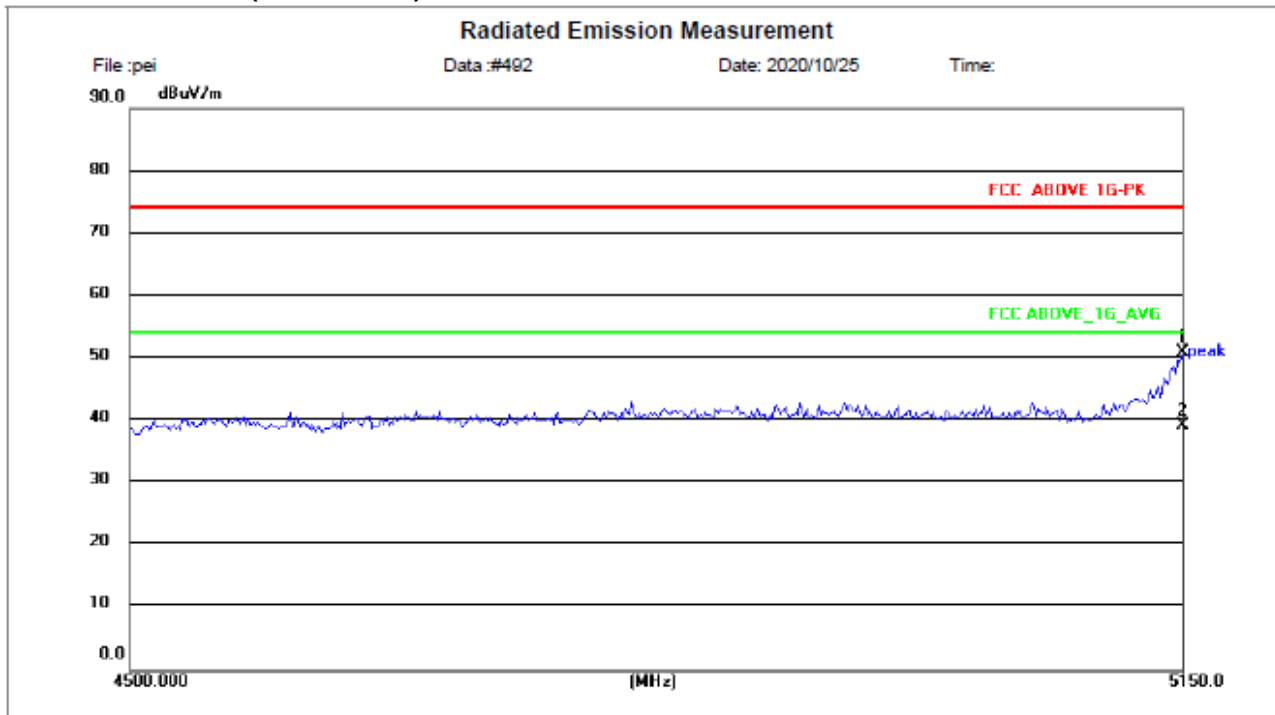
The test trace is same as the ambient noise (the test frequency range: 26.5GHz~40GHz), therefore no data appear in the report.

Notes:

1. Level = Read Level + Antenna Factor+ Cable loss- Preamp Factor.
2. This limit applies for using average detector, if the test result on peak is lower than average limit, then average measurement needn't be performed.

Spurious Emission in restricted band:

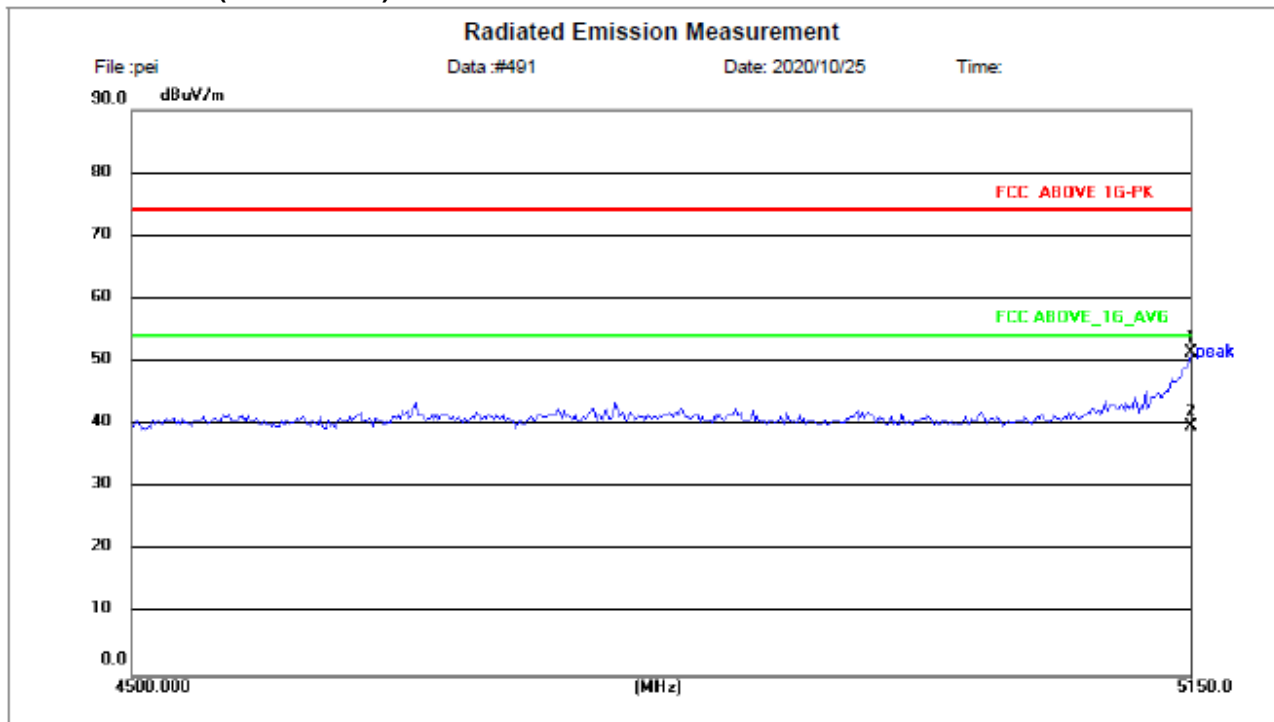
Horizontal: 802.11a (TX 5180MHz)



Site 966 Chamber	Polarization: <i>Horizontal</i>	Temperature: 26(C)
Limit: FCC ABOVE 1G-PK	Power: DC 5V	Humidity: 54 %
EUT: Vaxis wireless video system	Distance: 3m	
M/N: Vaxis Atom 500 SDI TX		
Mode: 802.11a (TX 5180MHz)		
Note: Hunan GM innovation technology Co.,Ltd		
Transmitter		

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	5150.000	54.91	-3.99	50.92	74.00	23.08	peak			P	
2 *	5150.000	43.15	-3.99	39.16	54.00	14.84	AVG			P	

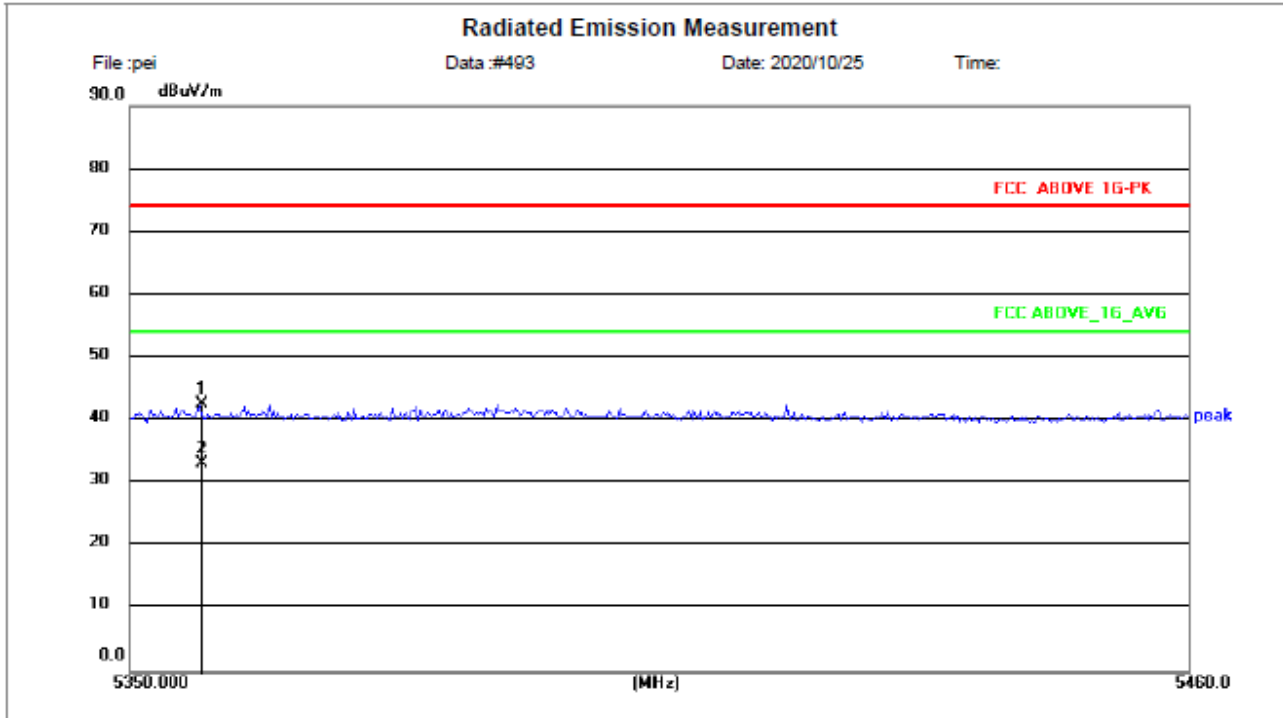
Vertical: 802.11a (TX 5180MHz)



Site 966 Chamber	Polarization: <i>Vertical</i>	Temperature: 28(C)
Limit: FCC ABOVE 1G-PK	Power: DC 5V	Humidity: 54 %
EUT: Vaxis wireless video system	Distance: 3m	
M/N: Vaxis Atom 500 SDI TX		
Mode: 802.11a (TX 5180MHz)		
Note: Hunan GM innovation technology Co.,Ltd		
Transmitter		

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	5150.000	55.48	-3.99	51.49	74.00	22.51	peak			P	
2 *	5150.000	43.63	-3.99	39.64	54.00	14.36	AVG			P	

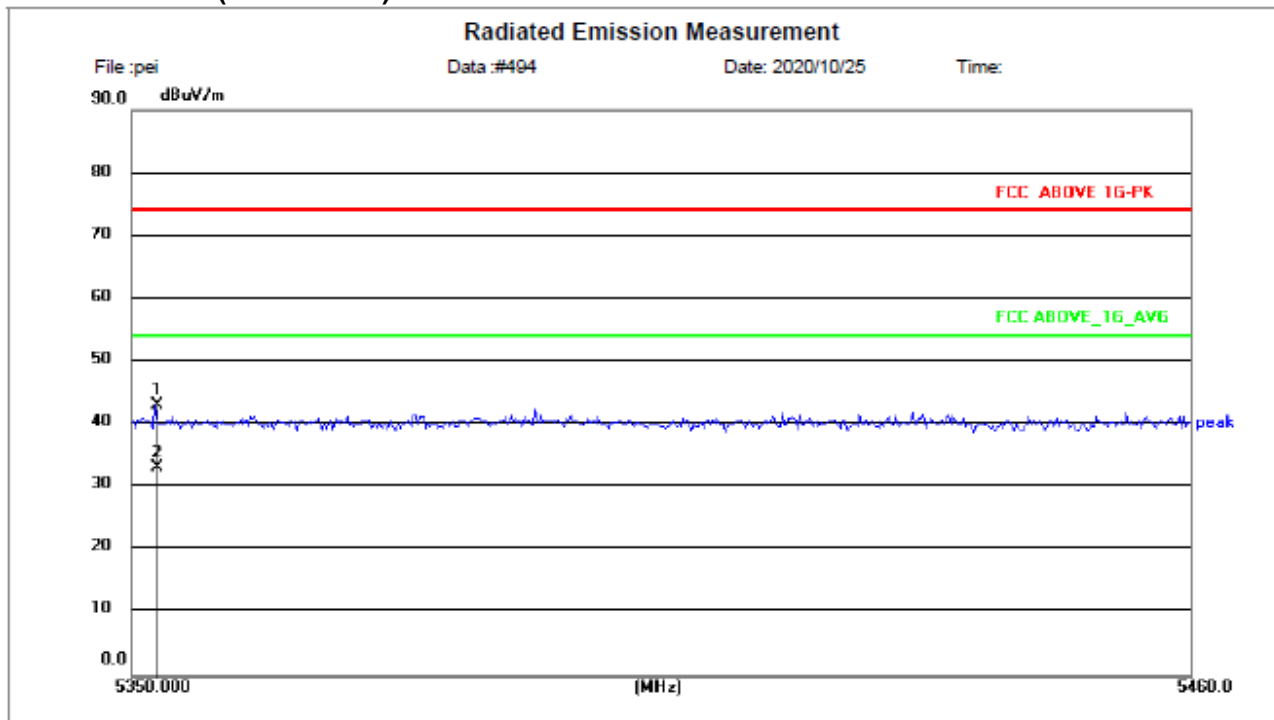
Horizontal: 802.11a (TX 5240MHz)



Site 966 Chamber	Polarization: <i>Horizontal</i>	Temperature: 28(C)
Limit: FCC ABOVE 1G-PK	Power: DC 5V	Humidity: 54 %
EUT: Vaxis wireless video system	Distance: 3m	
M/N: Vaxis Atom 500 SDI TX		
Mode: 802.11a (TX 5240MHz)		
Note: Hunan GM innovation technology Co.,Ltd		
Transmitter		

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	5357.275	45.90	-3.29	42.61	74.00	31.39	peak			P	
2 *	5357.275	36.58	-3.29	33.29	54.00	20.71	AVG			P	

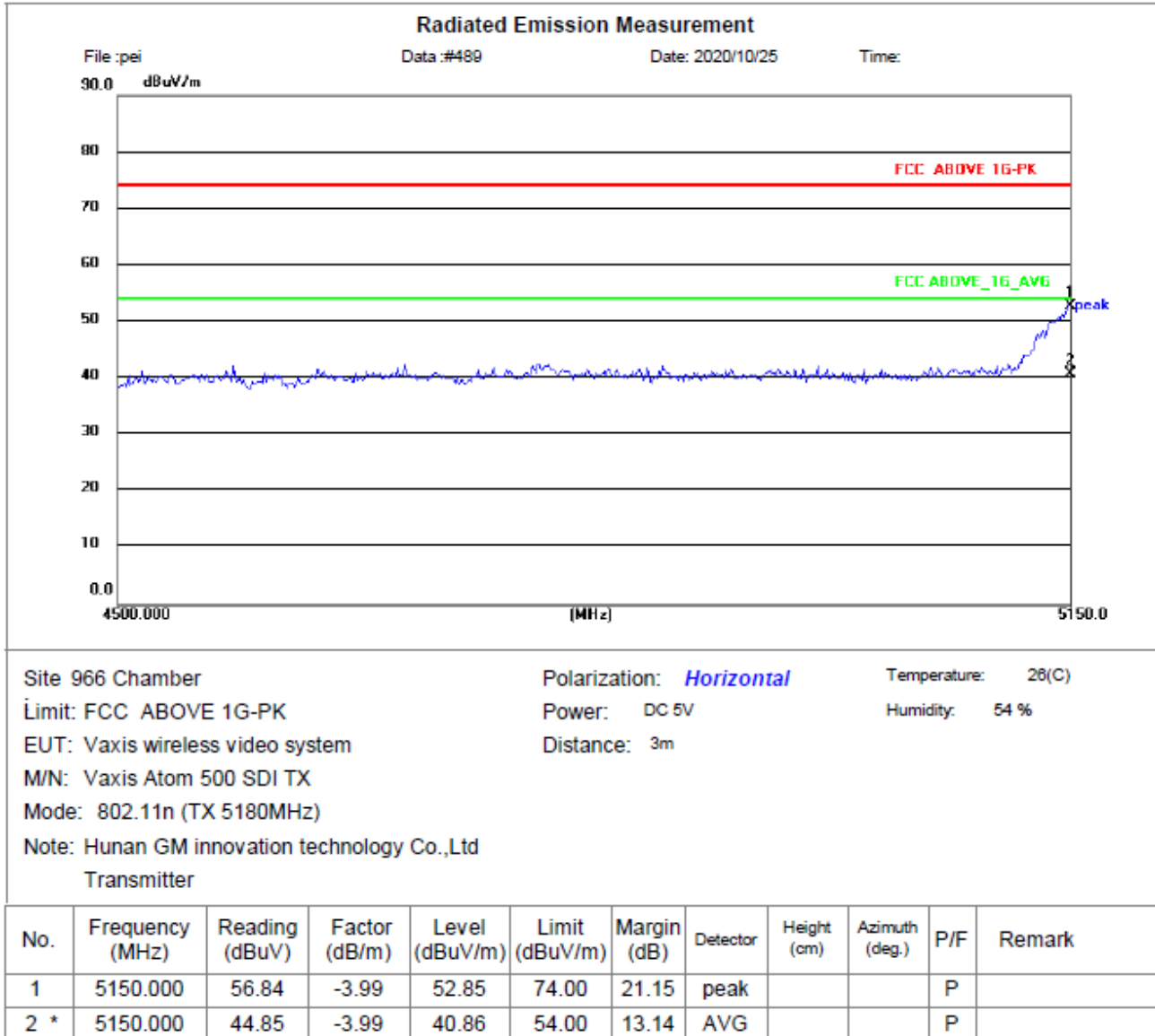
Vertical: 802.11a (TX 5240MHz)



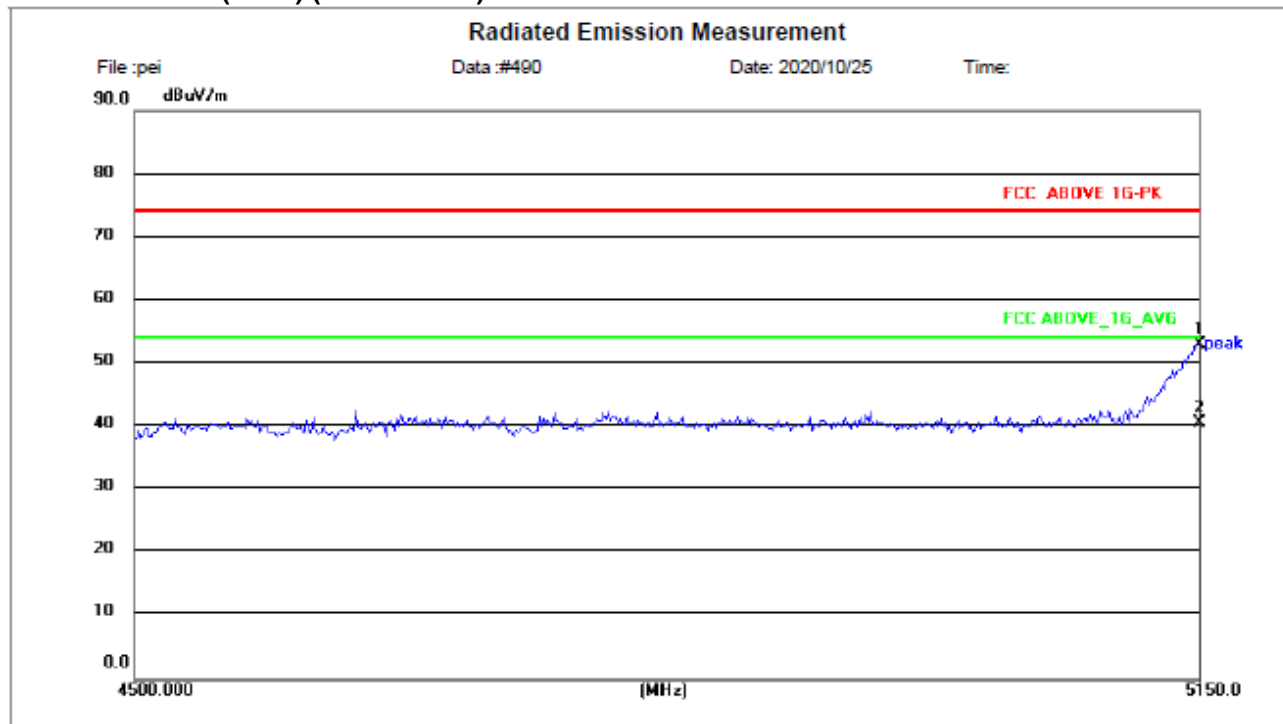
Site 966 Chamber	Polarization: <i>Vertical</i>	Temperature: 28(C)
Limit: FCC ABOVE 1G-PK	Power: DC 5V	Humidity: 54 %
EUT: Vaxis wireless video system	Distance: 3m	
M/N: Vaxis Atom 500 SDI TX		
Mode: 802.11a (TX 5240MHz)		
Note: Hunan GM innovation technology Co.,Ltd		
Transmitter		

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	5352.425	46.36	-3.30	43.06	74.00	30.94	peak			P	
2 *	5352.425	36.58	-3.30	33.28	54.00	20.72	AVG			P	

Horizontal: 802.11n (HT20) (TX 5180MHz)



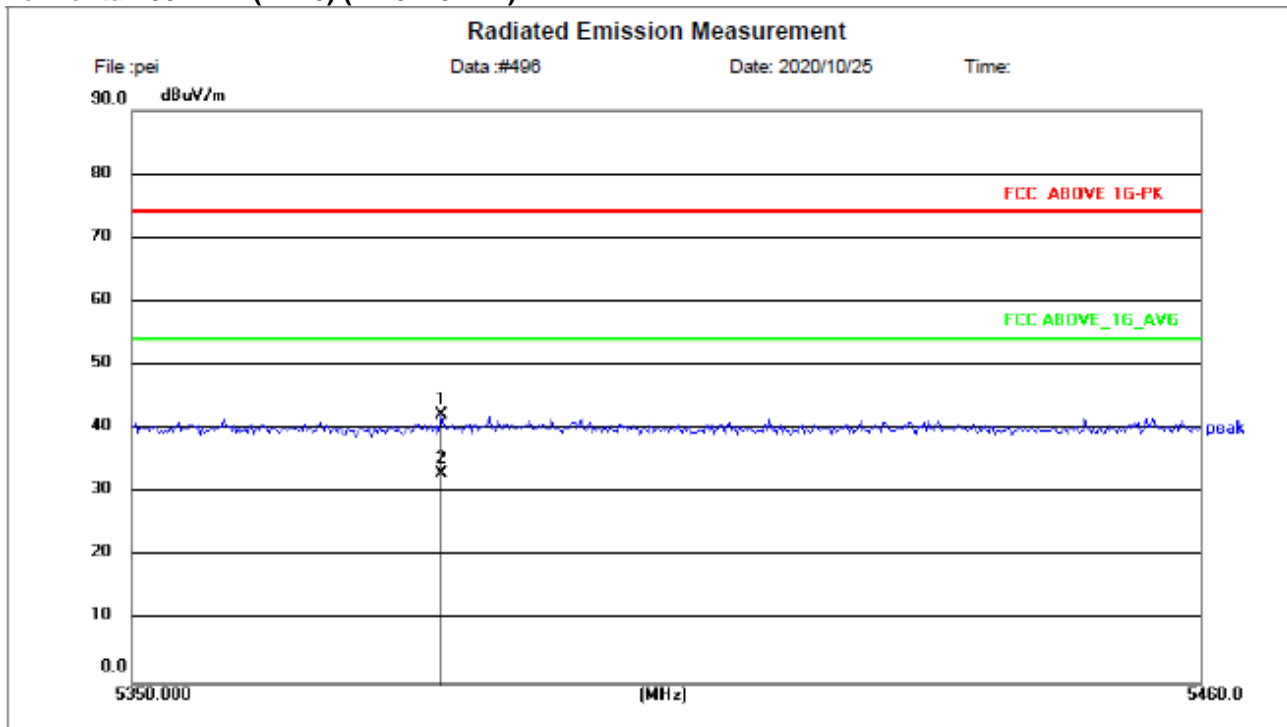
Vertical: 802.11n (HT20) (TX 5180MHz)



Site 966 Chamber	Polarization: <i>Vertical</i>	Temperature: 28(C)
Limit: FCC ABOVE 1G-PK	Power: DC 5V	Humidity: 54 %
EUT: Vaxis wireless video system	Distance: 3m	
M/N: Vaxis Atom 500 SDI TX		
Mode: 802.11n (TX 5180MHz)		
Note: Hunan GM innovation technology Co.,Ltd		
Transmitter		

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	5150.000	56.98	-3.99	52.99	74.00	21.01	peak			P	
2 *	5150.000	44.63	-3.99	40.64	54.00	13.36	AVG			P	

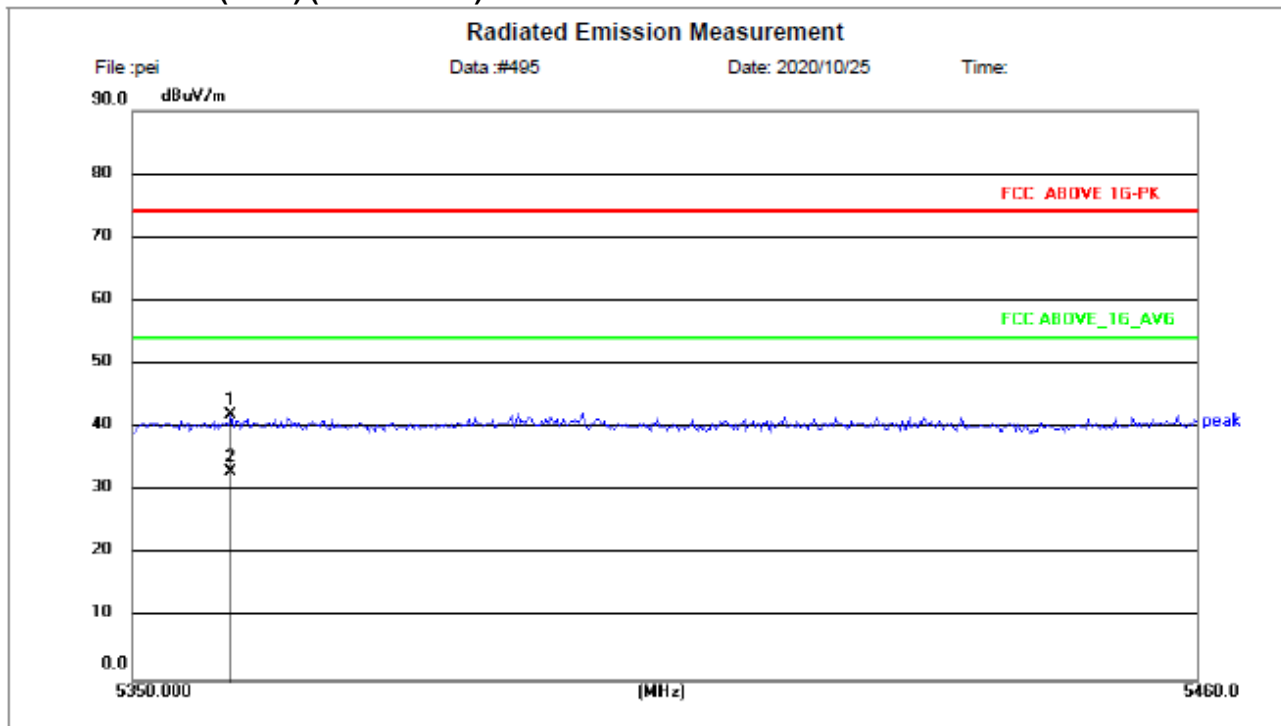
Horizontal: 802.11n (HT20) (TX 5240MHz)



Site 966 Chamber	Polarization: <i>Horizontal</i>	Temperature: 26(C)
Limit: FCC ABOVE 1G-PK	Power: DC 5V	Humidity: 54 %
EUT: Vaxis wireless video system	Distance: 3m	
M/N: Vaxis Atom 500 SDI TX		
Mode: 802.11n (TX 5240MHz)		
Note: Hunan GM innovation technology Co.,Ltd		
Transmitter		

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	5381.743	45.44	-3.21	42.23	74.00	31.77	peak			P	
2 *	5381.743	36.13	-3.21	32.92	54.00	21.08	AVG			P	

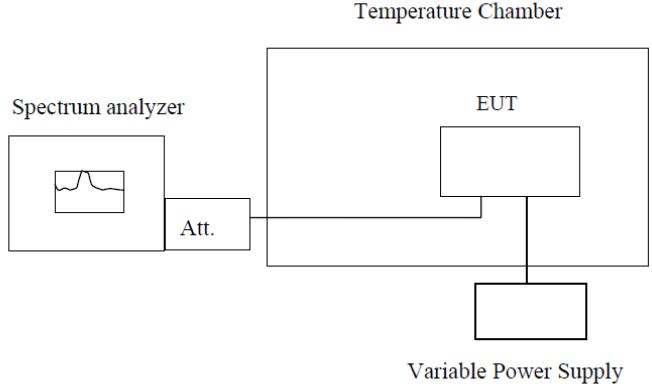
Vertical: 802.11n (HT20) (TX 5240MHz)



Site 966 Chamber	Polarization: <i>Vertical</i>	Temperature: 28(C)
Limit: FCC ABOVE 1G-PK	Power: DC 5V	Humidity: 54 %
EUT: Vaxis wireless video system	Distance: 3m	
M/N: Vaxis Atom 500 SDI TX		
Mode: 802.11n (TX 5240MHz)		
Note: Hunan GM innovation technology Co.,Ltd		
Transmitter		

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	5360.140	45.16	-3.28	41.88	74.00	32.12	peak			P	
2 *	5360.140	36.20	-3.28	32.92	54.00	21.08	AVG			P	

7.8 Frequency stability

Test Requirement:	FCC Part15 C Section 15.407(g)
Test Method:	ANSI C63.10:2013, FCC Part 2.1055
Limit:	Manufactures 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 normal operation as specified
Test Procedure:	The EUT was setup to ANSI C63.4, 2003; tested to 2.1055 for compliance to FCC Part 15.407(g) requirements.
Test setup:	 <p style="text-align: center;">Note : Measurement setup for testing on Antenna connector</p>
Test Instruments:	Refer to section 6 for details
Test mode:	Refer to section 5.2 for details
Test results:	Pass

Remark: Set the EUT transmits at un-modulation mode to test frequency stability.

Frequencies Stability test result: 5180MHz

Test Conditions	Measured Frequency(MHz) 5180
V nor(V)	5179.9995
V max(V)	5180.0024
V min(V)	5180.0030
Max. Deviation Frequency	0.0030
Max. Frequency Error (ppm)	0.6

Frequency Error vs. Temperature:

Test Conditions (°C)	Measured Frequency(MHz) 5180
-5	5180.0014
5	5180.0022
15	5180.0038
25	5180.0042
35	5180.0028
45	5180.0051
50	5180.0068
Max. Deviation Frequency	0.0068
Max. Frequency Error (ppm)	1.31

Frequencies Stability test result: 5240MHz

Test Conditions	Measured Frequency(MHz) 5240
V nor(V)	5240.0058
V max(V)	5240.0047
V min(V)	5240.0069
Max. Deviation Frequency	0.0069
Max. Frequency Error (ppm)	1.32

Frequency Error vs. Temperature:

Test Conditions (°C)	Measured Frequency(MHz) 5240
-5	5240.0047
5	5240.0039
15	5240.0011
25	5240.0070
35	5240.0034
45	5240.0014
50	5240.0092
Max. Deviation Frequency	0.0092
Max. Frequency Error (ppm)	1.31

8 Test Setup Photo

Reference to the **appendix I** for details.

9 EUT Constructional Details

Reference to the **appendix II** for details.

---END---