

10. RADIATED SPURIOUS EMISSION TEST

10.1. Block Diagram of Test Setup

10.1.1. Block diagram of connection between the EUT and peripherals

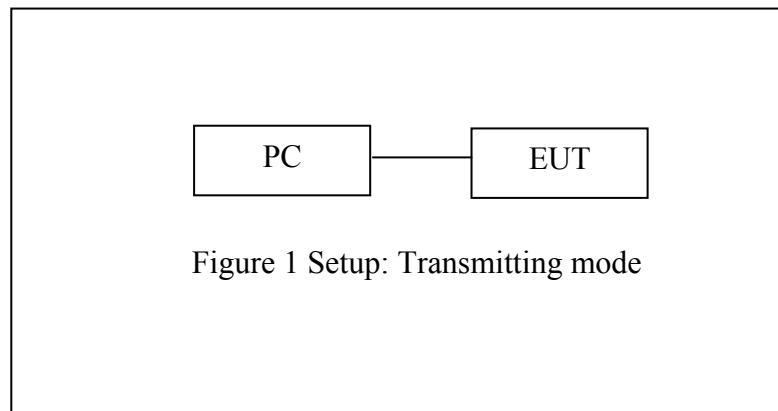
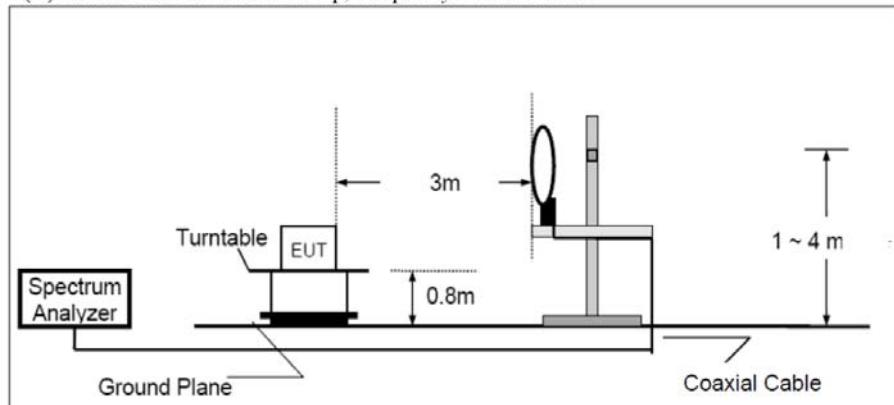


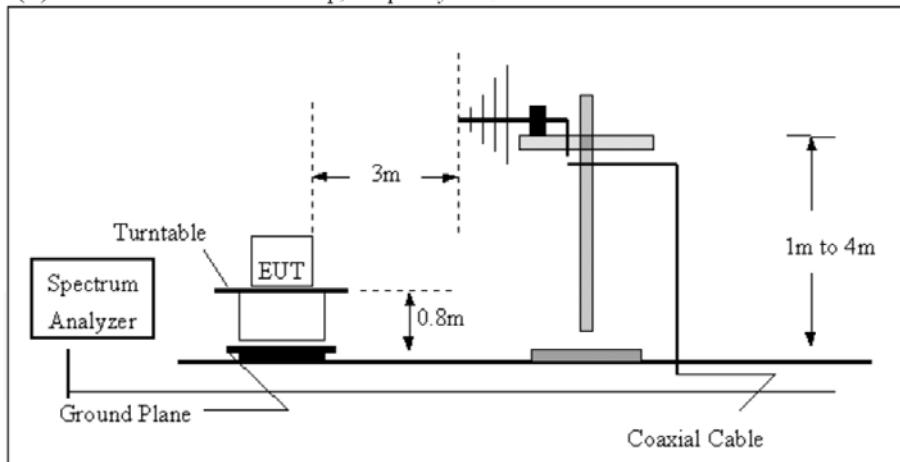
Figure 1 Setup: Transmitting mode

10.1.2. Semi-Anechoic Chamber Test Setup Diagram

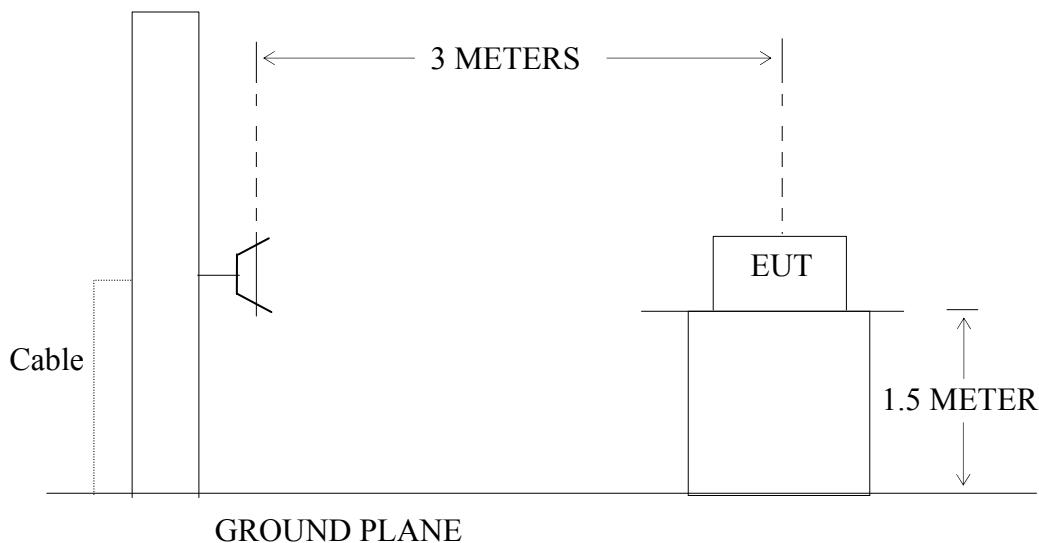
(A) Radiated Emission Test Set-Up, Frequency below 30MHz



(B) Radiated Emission Test Set-Up, Frequency 30-1000MHz



(C) Radiated Emission Test Set-Up, Frequency above 1GHz



10.2. Restricted bands of operation

10.2.1. FCC Part 15.205 Restricted bands of operation

(a) Except as shown in paragraph (d) of this section, Only spurious emissions are permitted in any of the frequency bands listed below:

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

¹Until February 1, 1999, this restricted band shall be 0.490-0.510

²Above 38.6

(b) Except as provided in paragraphs (d) and (e), the field strength of emission appearing within these frequency bands shall not exceed the limits shown in Section 15.209. At frequencies equal to or less than 1000MHz, Compliance with the limits in Section 15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasi-peak detector. Above 1000MHz, compliance with the emission limits in Section 15.209 shall be demonstrated

based on the average value of the measured emissions. The provisions in Section 15.35 apply to these measurements.

10.3. Configuration of EUT on Measurement

The equipment are installed on Radiated Emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

10.4. The Limit For Section 15.407

Section 15.247(d): For transmitters operating in the 5.15–5.25 GHz band: all emissions out-side of the 5.15–5.35 GHz band shall not exceed an EIRP of –27dBm/MHz.
For transmitters operating in the 5.725–5.825 GHz band: all emissions within the frequency range from the band edge to 10 MHz above or below the band edge shall not exceed an EIRP of –17dBm/MHz; for frequencies 10 MHz or greater above or below the band edge, emissions shall not exceed an EIRP of –27dBm/MHz.

10.5. Operating Condition of EUT

10.5.1. Setup the EUT and simulator as shown as Section 10.1.

10.5.2. Turn on the power of all equipment.

10.5.3. Let the EUT work in TX modes measure it. The transmit frequency are 5150-5250 and 5725-5825MHz.

10.6. Test Procedure

The EUT and its simulators are placed on a turntable, which is 0.8 meter high above ground(Below 1GHz). The EUT and its simulators are placed on a turntable, which is 1.5 meter high above ground(Above 1GHz). The turntable can rotate 360 degrees to determine the position of the maximum emission level. EUT is set 3.0 meters away from the receiving antenna, which is mounted on an antenna tower. The antenna can be moved up and down between 1.0 meter and 4 meters to find out the maximum emission level. Broadband antenna (calibrated bi-log antenna) is used as receiving antenna. Both horizontal and vertical polarizations of the antenna are set on measurement. In order to find the maximum emission levels, all of the EUT location must be manipulated according to ANSI C63.10:2013 on radiated emission measurement. The EUT was tested in 3 orthogonal planes.

The frequency range from 9KHz to 40000MHz is checked.

Result = Reading + Corrected Factor

Where Corrected Factor = Antenna Factor + Cable Loss – Amplifier Gain

During the radiated emission test, the spectrum analyzer was set with the following

configurations:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for peak measurement with peak detector at frequency above 1GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average measurement with peak detection at frequency above 1GHz.
4. All modes of operation were investigated and the worst-case emissions are reported.

10.7. The Field Strength of Radiation Emission Measurement Results

Note: 1. Emissions attenuated more than 20 dB below the permissible value are not reported.

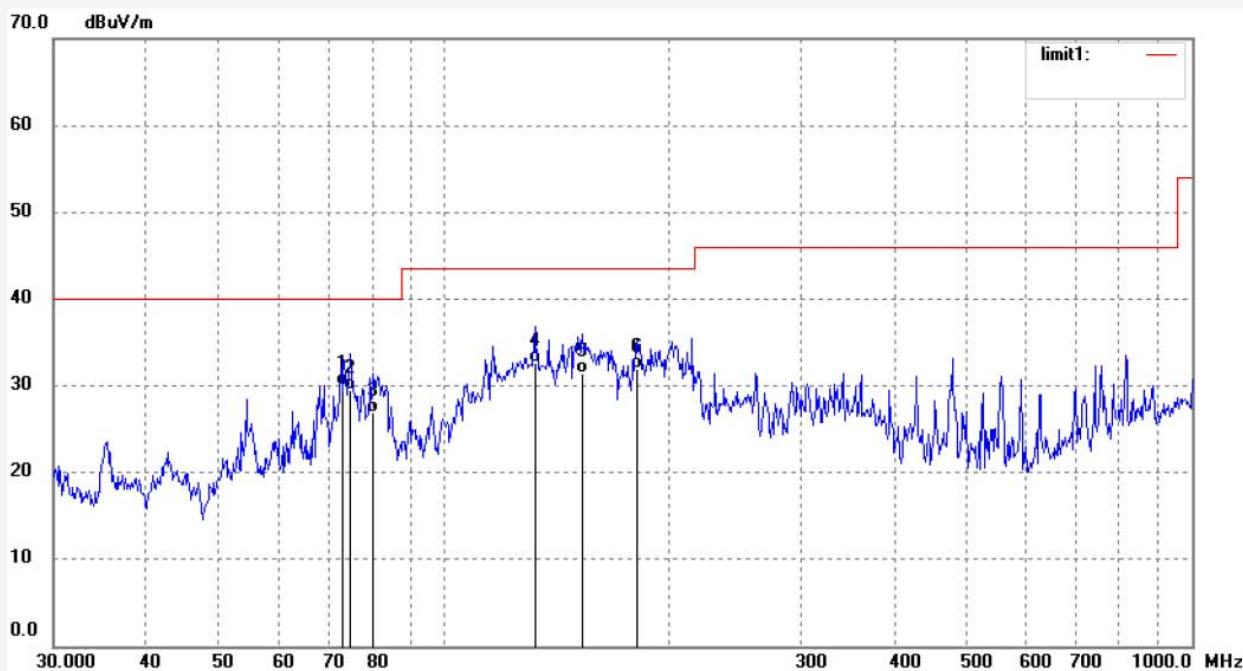
2. *: Denotes restricted band of operation.
3. The fundamental radiated emissions were reduced by Band Reject Filter in the attached plots.
4. The EUT is tested radiation emission at each test mode (802.11a/ac/n) in three axes. Besides, We have tested the single antenna transmit mode and the dual antenna emission mode. The worst emissions are reflected in the following plots.
6. The average measurement was not performed when peak measured data under the limit of average detection.

Below 1G

Job No.: frank2018 #113
 Standard: FCC Class B 3M Radiated
 Test item: Radiation Test
 Temp.(C)/Hum.(%) 25 C / 55 %
 EUT: Wifi module
 Mode: TX Channel 36-AC 20MHz(MIMO)
 Model: M632USA1
 Manufacturer: Xiamen Prima Technology Inc.

Polarization: Horizontal
 Power Source: DC 3.3V
 Date: 2018/01/23
 Time: 17:31:52
 Engineer Signature:
 Distance: 3m

Note: Report NO.:ATE20172554

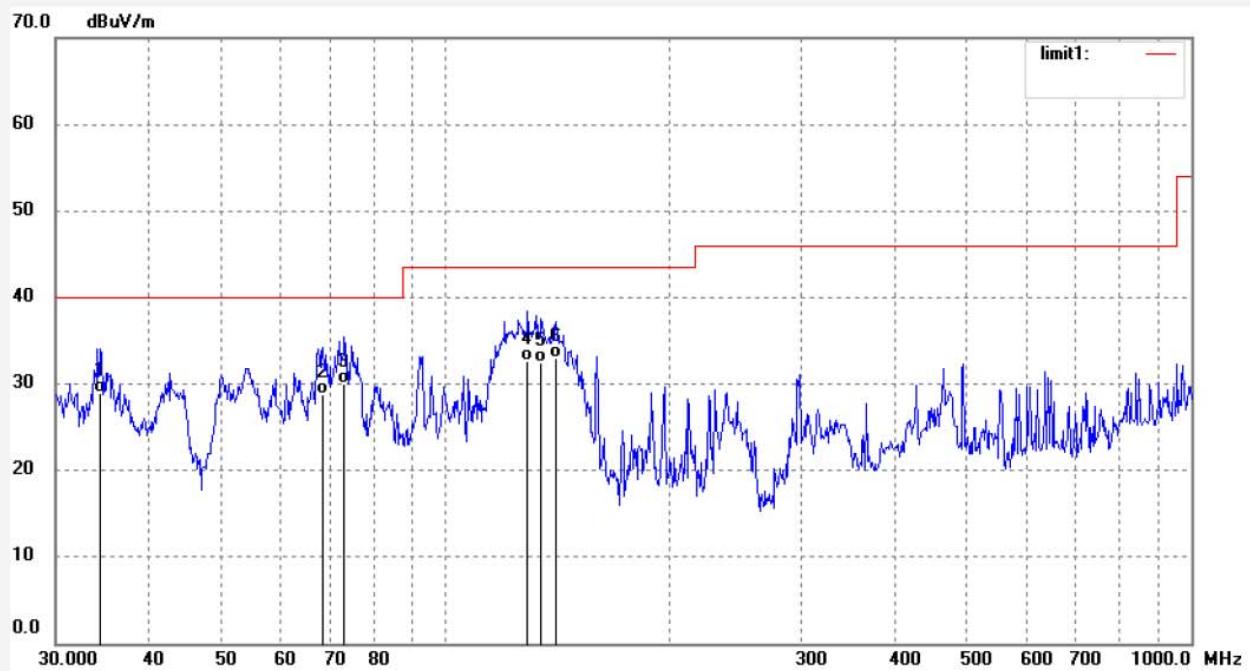


No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	73.2330	57.68	-27.63	30.05	40.00	-9.95	QP	200	94	
2	74.7934	57.10	-27.69	29.41	40.00	-10.59	QP	200	347	
3	80.2382	54.31	-27.40	26.91	40.00	-13.09	QP	200	182	
4	132.1489	60.38	-27.77	32.61	43.50	-10.89	QP	200	254	
5	153.1627	59.18	-27.77	31.41	43.50	-12.09	QP	200	116	
6	180.6639	57.93	-25.97	31.96	43.50	-11.54	QP	200	130	

Job No.: frank2018 #114
 Standard: FCC Class B 3M Radiated
 Test item: Radiation Test
 Temp.(C)/Hum.(%) 25 C / 55 %
 EUT: Wifi module
 Mode: TX Channel 36-AC 20MHz(MIMO)
 Model: M632USA1
 Manufacturer: Xiamen Prima Technology Inc.

Polarization: Vertical
 Power Source: DC 3.3V
 Date: 2018/01/23
 Time: 17:36:54
 Engineer Signature:
 Distance: 3m

Note: Report NO.:ATE20172554

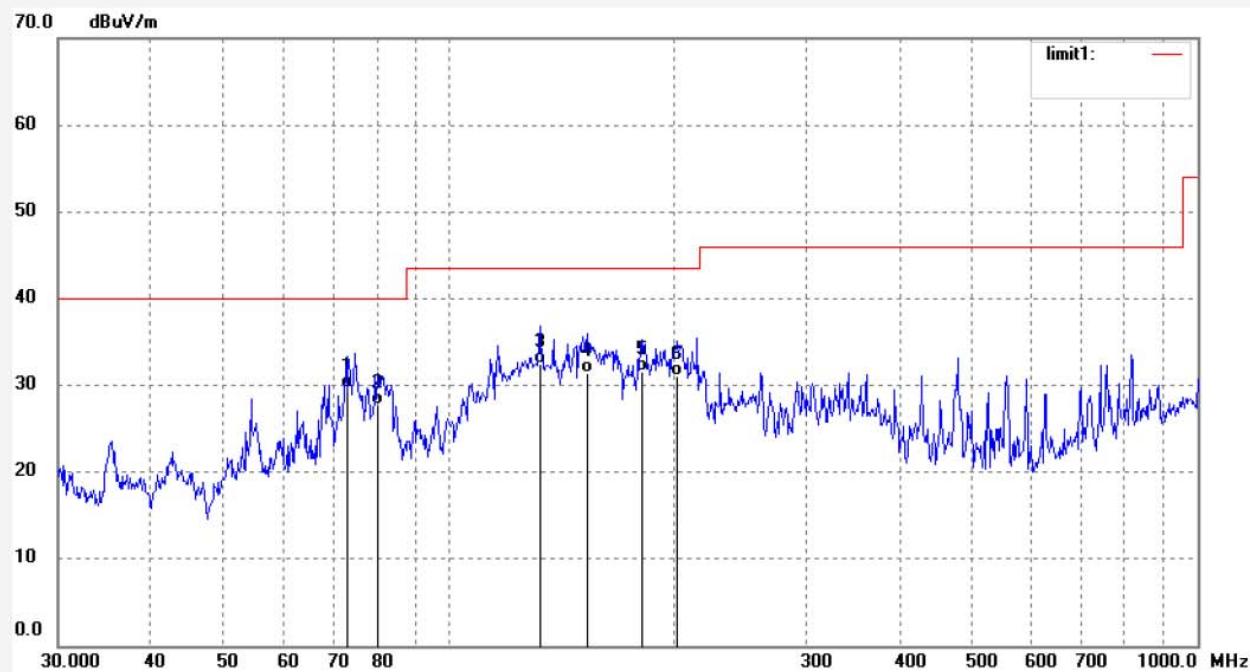


No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	34.4059	50.31	-21.30	29.01	40.00	-10.99	QP	100	25	
2	68.5036	56.18	-27.42	28.76	40.00	-11.24	QP	100	187	
3	73.2330	57.65	-27.63	30.02	40.00	-9.98	QP	100	89	
4	128.9385	60.28	-27.69	32.59	43.50	-10.91	QP	100	251	
5	134.4910	60.31	-27.83	32.48	43.50	-11.02	QP	100	144	
6	140.7767	60.98	-27.96	33.02	43.50	-10.48	QP	100	139	

Job No.: frank2018 #115
 Standard: FCC Class B 3M Radiated
 Test item: Radiation Test
 Temp.(C)/Hum.(%) 25 C / 55 %
 EUT: Wifi module
 Mode: TX Channel 48-AC 20MHz(MIMO)
 Model: M632USA1
 Manufacturer: Xiamen Prima Technology Inc.

Polarization: Horizontal
 Power Source: DC 3.3V
 Date: 2018/01/23
 Time: 17:31:52
 Engineer Signature:
 Distance: 3m

Note: Report NO.:ATE20172554



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	72.7202	57.31	-27.60	29.71	40.00	-10.29	QP	200	325	
2	80.2382	55.12	-27.40	27.72	40.00	-12.28	QP	200	148	
3	132.1489	60.31	-27.77	32.54	43.50	-10.96	QP	200	90	
4	153.1627	59.24	-27.77	31.47	43.50	-12.03	QP	200	192	
5	180.6639	57.60	-25.97	31.63	43.50	-11.87	QP	200	181	
6	201.4539	55.35	-24.30	31.05	43.50	-12.45	QP	200	31	

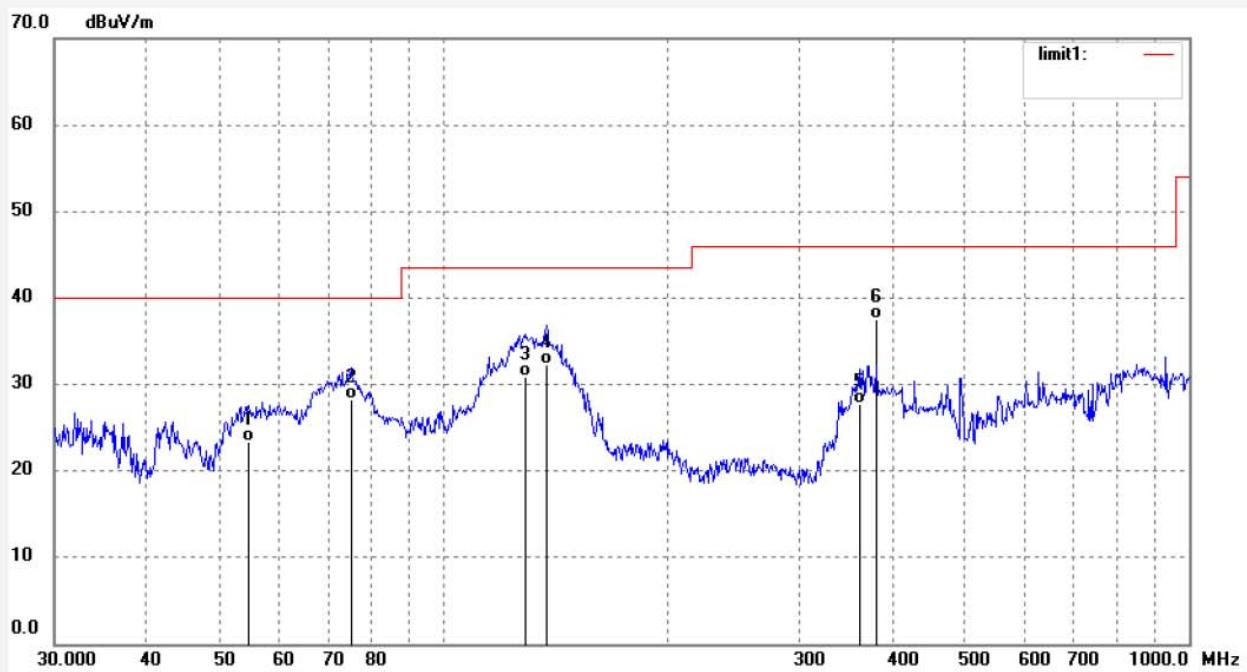


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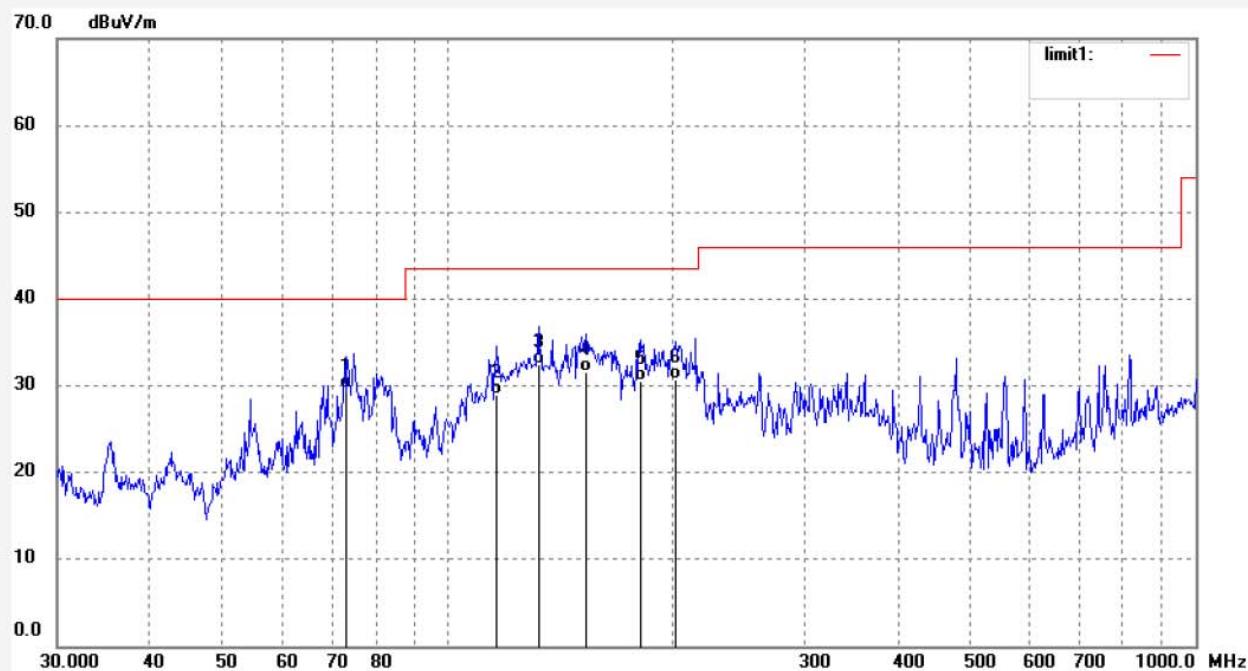
Job No.:	frank2018 #116	Polarization:	Vertical
Standard:	FCC Class B 3M Radiated	Power Source:	DC 3.3V
Test item:	Radiation Test	Date:	2018/01/23
Temp.(C)/Hum.(%)	25 C / 55 %	Time:	17:29:25
EUT:	Wifi module	Engineer Signature:	
Mode:	TX Channel 48-AC 20MHz(MIMO)	Distance:	3m
Model:	M632USA1		
Manufacturer:	Xiamen Prima Technology Inc.		
Note:	Report NO.:ATE20172554		



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	54.7085	50.38	-26.96	23.42	40.00	-16.58	QP	100	251	
2	75.0566	56.01	-27.70	28.31	40.00	-11.69	QP	100	295	
3	128.4858	58.64	-27.67	30.97	43.50	-12.53	QP	100	264	
4	137.3565	60.23	-27.89	32.34	43.50	-11.16	QP	100	187	
5	360.9775	46.70	-18.90	27.80	46.00	-18.20	QP	100	310	
6	380.5126	56.15	-18.61	37.54	46.00	-8.46	QP	100	55	

Job No.: frank2018 #118 Polarization: Horizontal
 Standard: FCC Class B 3M Radiated Power Source: DC 3.3V
 Test item: Radiation Test Date: 2018/01/23
 Temp.(C)/Hum.(%) 25 C / 55 % Time: 17:31:52
 EUT: Wifi module Engineer Signature:
 Mode: TX Channel 149-AC 20MHz(MIMO) Distance: 3m
 Model: M632USA1
 Manufacturer: Xiamen Prima Technology Inc.

Note: Report NO.:ATE20172554



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	73.2330	57.31	-27.63	29.68	40.00	-10.32	QP	200	169	
2	116.0391	56.26	-27.37	28.89	43.50	-14.61	QP	200	103	
3	132.1489	60.28	-27.77	32.51	43.50	-10.99	QP	200	328	
4	153.1627	59.39	-27.77	31.62	43.50	-11.88	QP	200	196	
5	180.6639	56.48	-25.97	30.51	43.50	-12.99	QP	200	84	
6	201.4539	55.10	-24.30	30.80	43.50	-12.70	QP	200	254	



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Job No.: frank2018 #117

Polarization: Vertical

Standard: FCC Class B 3M Radiated

Power Source: DC 3.3V

Test item: Radiation Test

Date: 2018/01/23

Temp.(C)/Hum.(%) 25 C / 55 %

Time: 17:29:25

EUT: Wifi module

Engineer Signature:

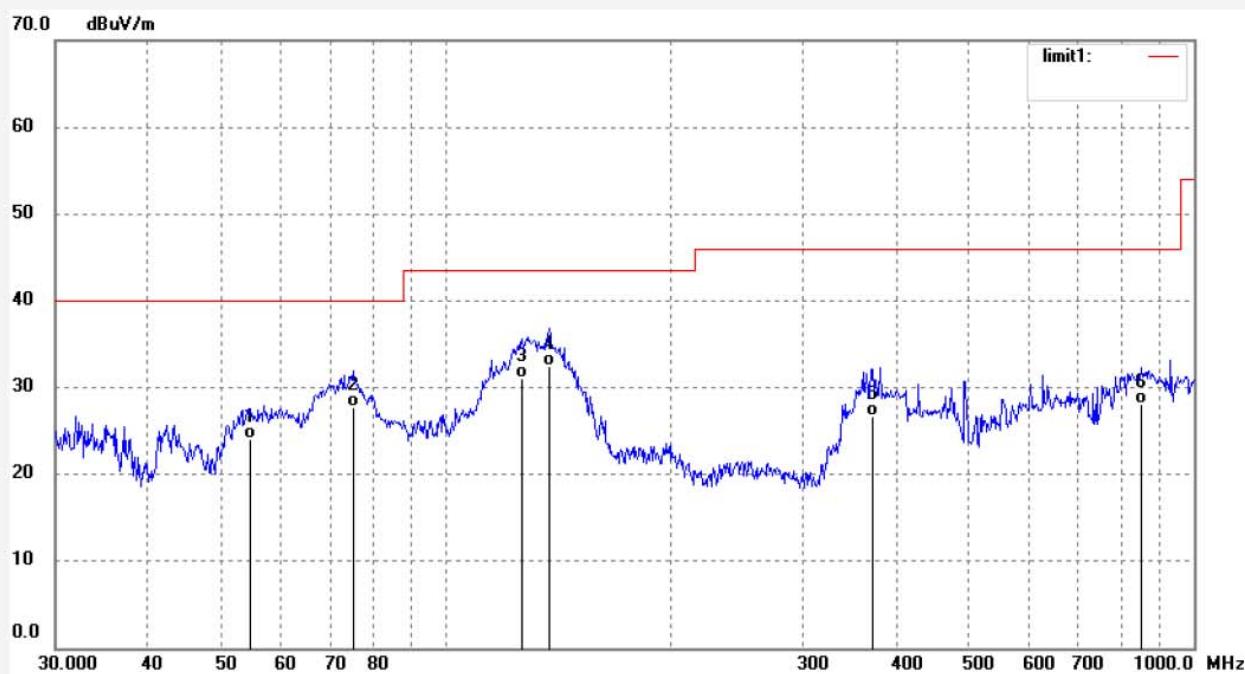
Mode: TX Channel 149-AC 20MHz(MIMO)

Distance: 3m

Model: M632USA1

Manufacturer: Xiamen Prima Technology Inc.

Note: Report NO.:ATE20172554



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	54.7085	50.97	-26.96	24.01	40.00	-15.99	QP	100	256	
2	75.0566	55.39	-27.70	27.69	40.00	-12.31	QP	100	320	
3	126.2485	58.64	-27.62	31.02	43.50	-12.48	QP	100	93	
4	137.3565	60.37	-27.89	32.48	43.50	-11.02	QP	100	181	
5	372.5747	45.36	-18.74	26.62	46.00	-19.38	QP	100	51	
6	850.7603	36.05	-8.01	28.04	46.00	-17.96	QP	100	310	

Job No.: frank2018 #109

Polarization: Horizontal

Standard: FCC Class B 3M Radiated

Power Source: DC 3.3V

Test item: Radiation Test

Date: 2018/01/23

Temp.(C)/Hum.(%) 25 C / 55 %

Time: 17:35:47

EUT: Wifi module

Engineer Signature:

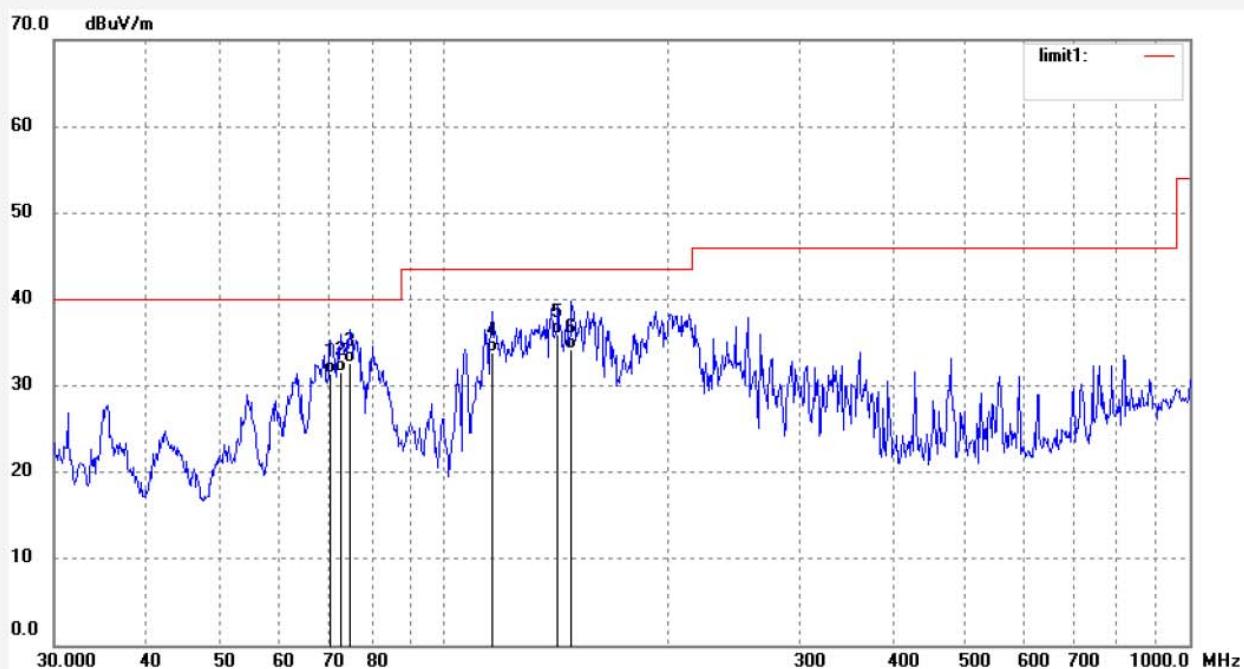
Mode: TX Channel 165-AC 20MHz(MIMO)

Distance: 3m

Model: M632USA1

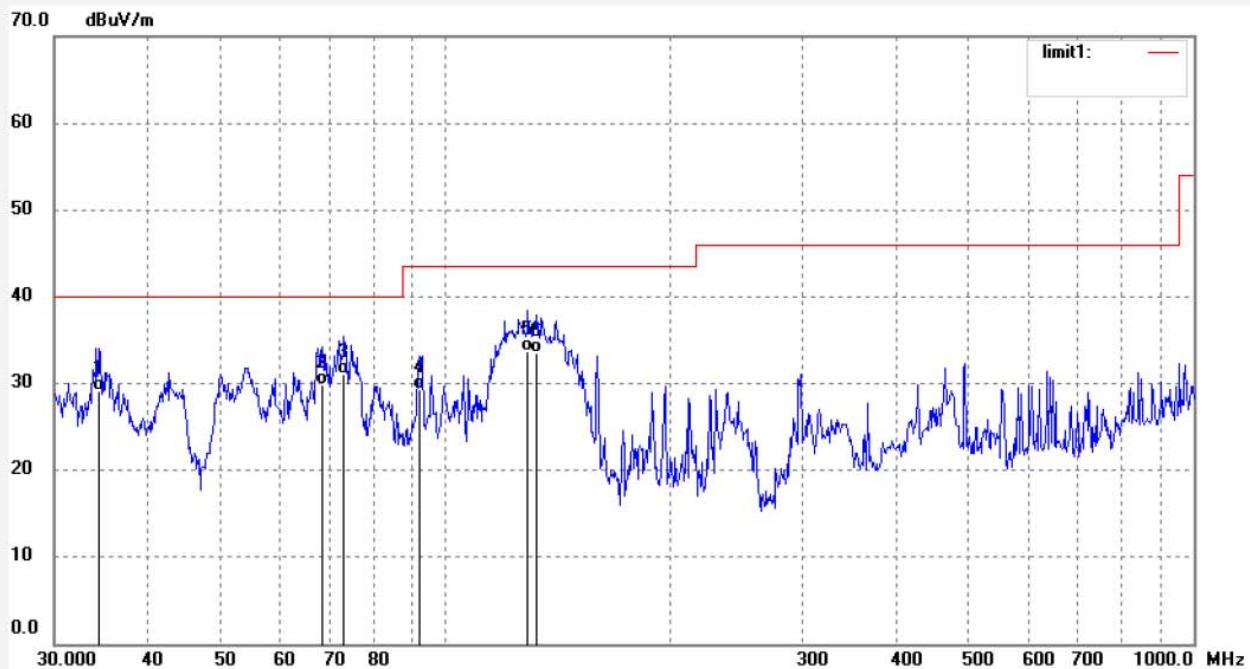
Manufacturer: Xiamen Prima Technology Inc.

Note: Report NO.:ATE20172554



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	70.4566	58.91	-27.50	31.41	40.00	-8.59	QP	200	235	
2	72.7202	59.25	-27.60	31.65	40.00	-8.35	QP	200	196	
3	74.7934	60.37	-27.69	32.68	40.00	-7.32	QP	200	184	
4	116.0391	61.26	-27.37	33.89	43.50	-9.61	QP	200	81	
5	142.2684	63.91	-27.99	35.92	43.50	-7.58	QP	200	102	
6	148.3951	62.32	-28.05	34.27	43.50	-9.23	QP	200	159	

Job No.: frank2018 #110 Polarization: Vertical
 Standard: FCC Class B 3M Radiated Power Source: DC 3.3V
 Test item: Radiation Test Date: 2018/01/23
 Temp.(C)/Hum.(%) 25 C / 55 % Time: 17:36:54
 EUT: Wifi module Engineer Signature:
 Mode: TX Channel 165-AC 20MHz(MIMO) Distance: 3m
 Model: M632USA1
 Manufacturer: Xiamen Prima Technology Inc.
 Note: Report NO.:ATE20172554



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	34.4059	50.38	-21.30	29.08	40.00	-10.92	QP	100	301	
2	68.5037	57.31	-27.42	29.89	40.00	-10.11	QP	100	265	
3	73.2330	58.61	-27.63	30.98	40.00	-9.02	QP	100	158	
4	92.3461	56.66	-27.42	29.24	43.50	-14.26	QP	100	294	
5	128.9385	61.37	-27.69	33.68	43.50	-9.82	QP	100	215	
6	132.1489	61.28	-27.77	33.51	43.50	-9.99	QP	100	103	

Above 1G

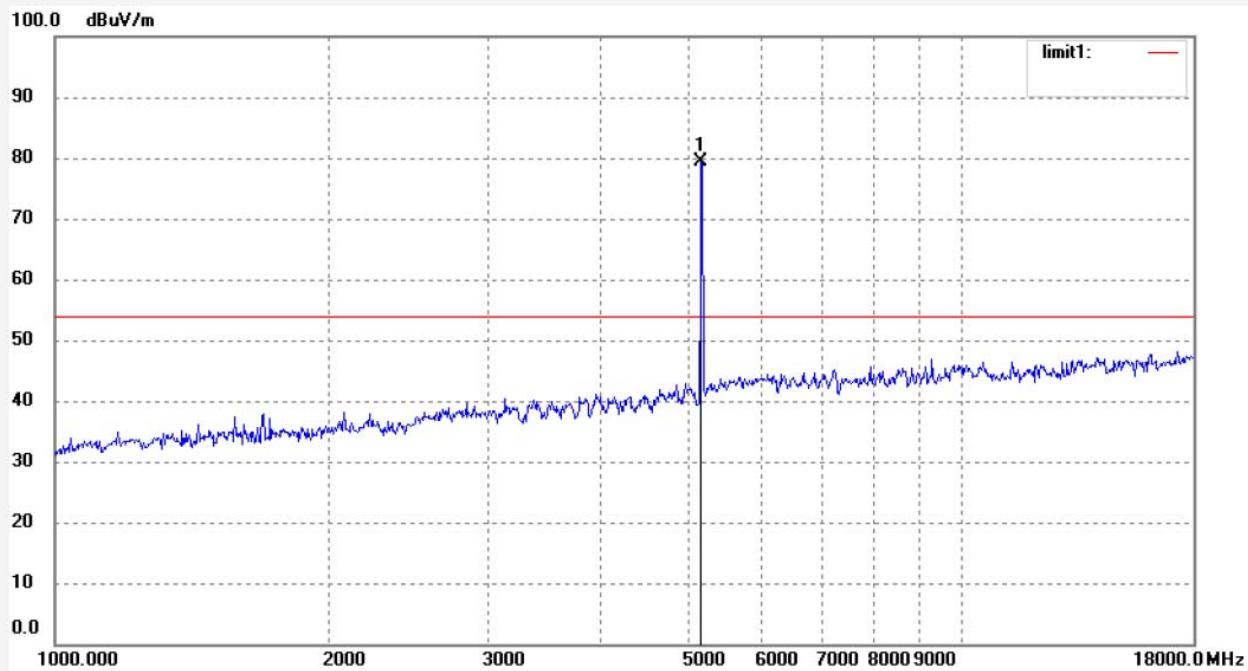


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Job No.: STAR2017 #910 Polarization: Horizontal
 Standard: FCC Class B 3M Radiated Power Source: DC 3.3V
 Test item: Radiation Test Date: 2018/01/23
 Temp.(C)/Hum.(%) 25 C / 55 % Time: 17/43/29
 EUT: WiFi module Engineer Signature: star
 Mode: TX Channel 36-A Distance: 3m
 Model: M632USA1
 Manufacturer: Xiamen Prima Technology Inc.

Note: Report NO.:ATE20172554



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	5180.041	77.33	2.06	79.39			peak	200	300	



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Job No.: STAR2017 #911

Polarization: Vertical

Standard: FCC Class B 3M Radiated

Power Source: DC 3.3V

Test item: Radiation Test

Date: 2018/01/23

Temp.(C)/Hum.(%) 25 C / 55 %

Time: 17/45/16

EUT: WiFi module

Engineer Signature: star

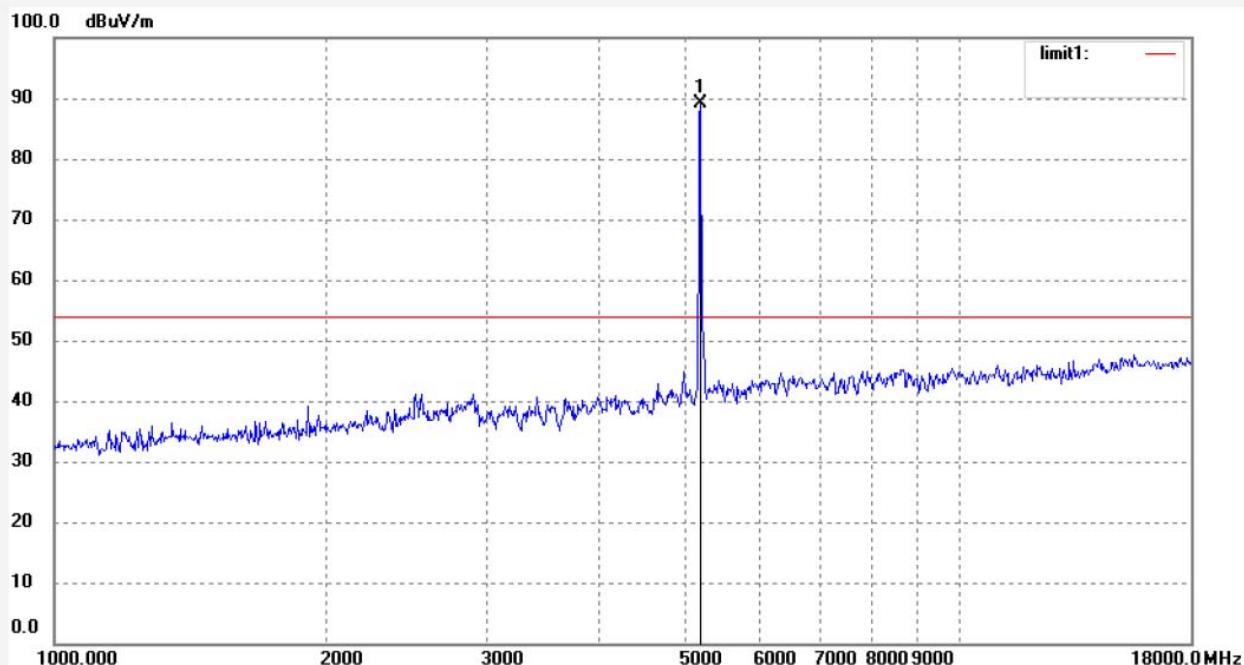
Mode: TX Channel 36-A

Distance: 3m

Model: M632USA1

Manufacturer: Xiamen Prima Technology Inc.

Note: Report NO.:ATE20172554



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	5180.093	87.16	2.07	89.23			peak	150	245	



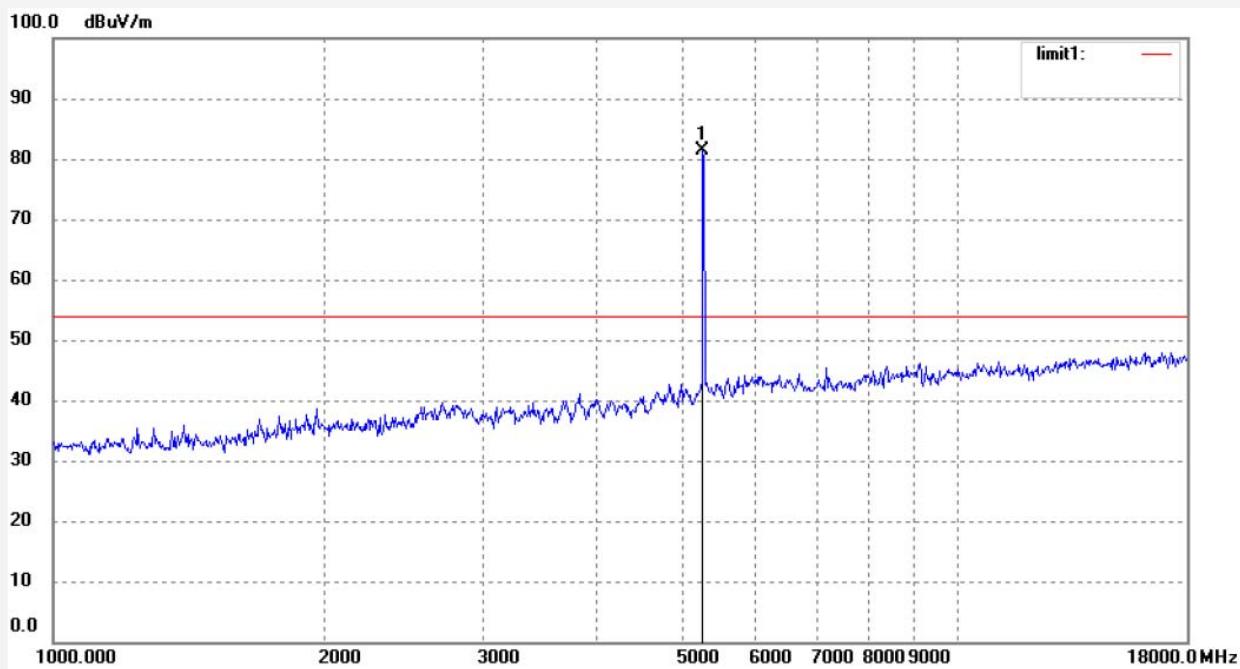
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Job No.: STAR2017 #913
 Standard: FCC Class B 3M Radiated
 Test item: Radiation Test
 Temp.(C)/Hum.(%) 25 C / 55 %
 EUT: WiFi module
 Mode: TX Channel 48-A
 Model: M632USA1
 Manufacturer: Xiamen Prima Technology Inc.

Polarization: Horizontal
 Power Source: DC 3.3V
 Date: 2018/01/23
 Time: 17/50/03
 Engineer Signature: star
 Distance: 3m

Note: Report NO.:ATE20172554



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	5240.142	79.28	2.15	81.43			peak	200	148	



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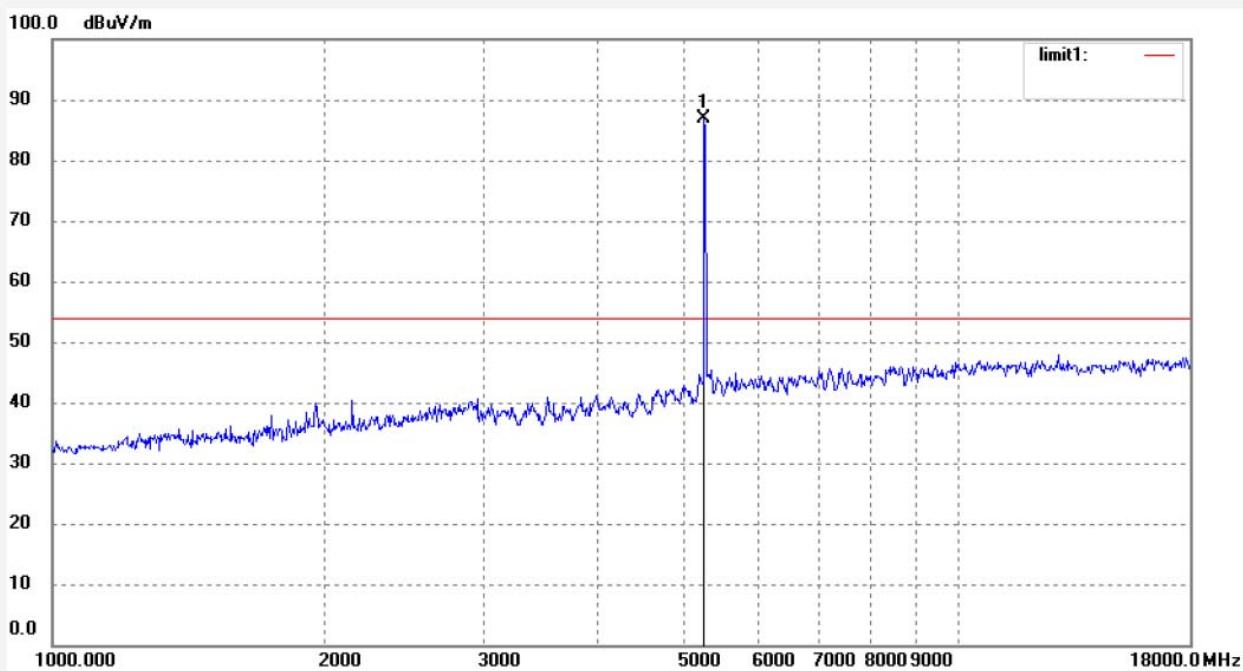
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Job No.: STAR2017 #912
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 25 C / 55 %
EUT: WiFi module
Mode: TX Channel 48-A
Model: M632USA1
Manufacturer: Xiamen Prima Technology Inc.

Polarization: Vertical
Power Source: DC 3.3V
Date: 2018/01/23
Time: 17/48/02
Engineer Signature: star
Distance: 3m

Note: Report NO.:ATE20172554



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	5240.142	84.66	2.15	86.81			peak	150	191	



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Job No.: STAR2017 #914

Polarization: Horizontal

Standard: FCC Class B 3M Radiated

Power Source: DC 3.3V

Test item: Radiation Test

Date: 2018/01/23

Temp.(C)/Hum.(%) 25 C / 55 %

Time: 17/52/41

EUT: WiFi module

Engineer Signature: star

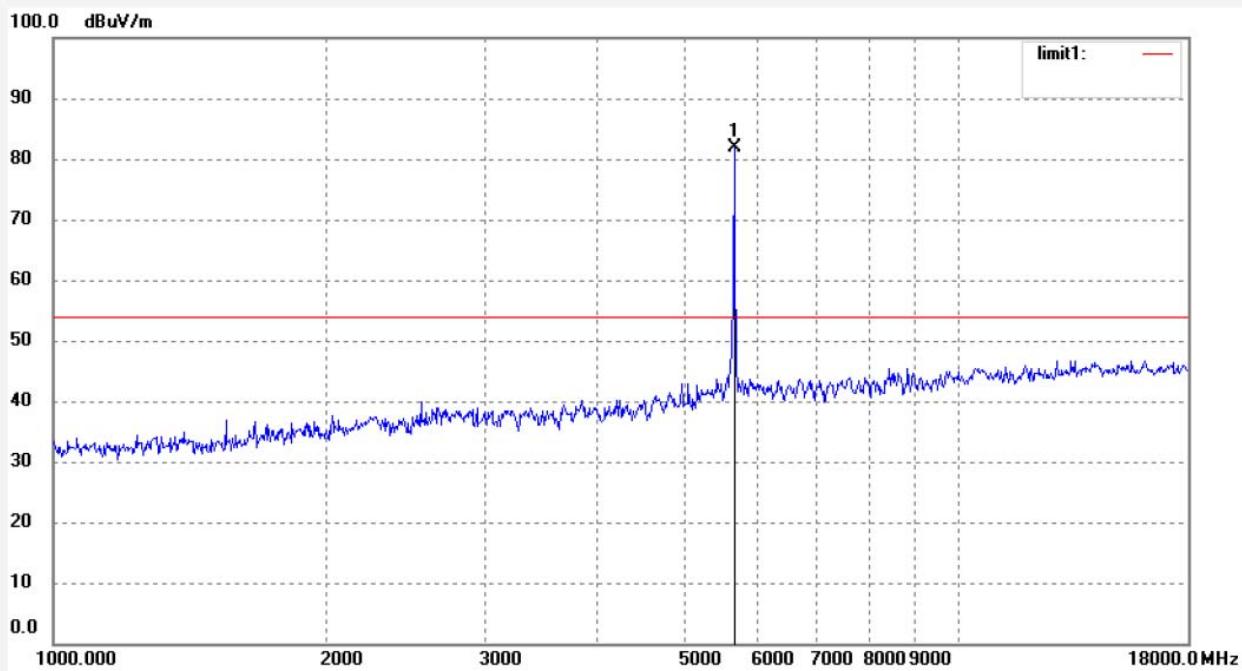
Mode: TX Channel 149-A

Distance: 3m

Model: M632USA1

Manufacturer: Xiamen Prima Technology Inc.

Note: Report NO.:ATE20172554



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	5745.024	79.17	2.68	81.85			peak	200	76	

Job No.: STAR2017 #915

Polarization: Vertical

Standard: FCC Class B 3M Radiated

Power Source: DC 3.3V

Test item: Radiation Test

Date: 2018/01/23

Temp.(C)/Hum.(%) 25 C / 55 %

Time: 17/54/02

EUT: WiFi module

Engineer Signature: star

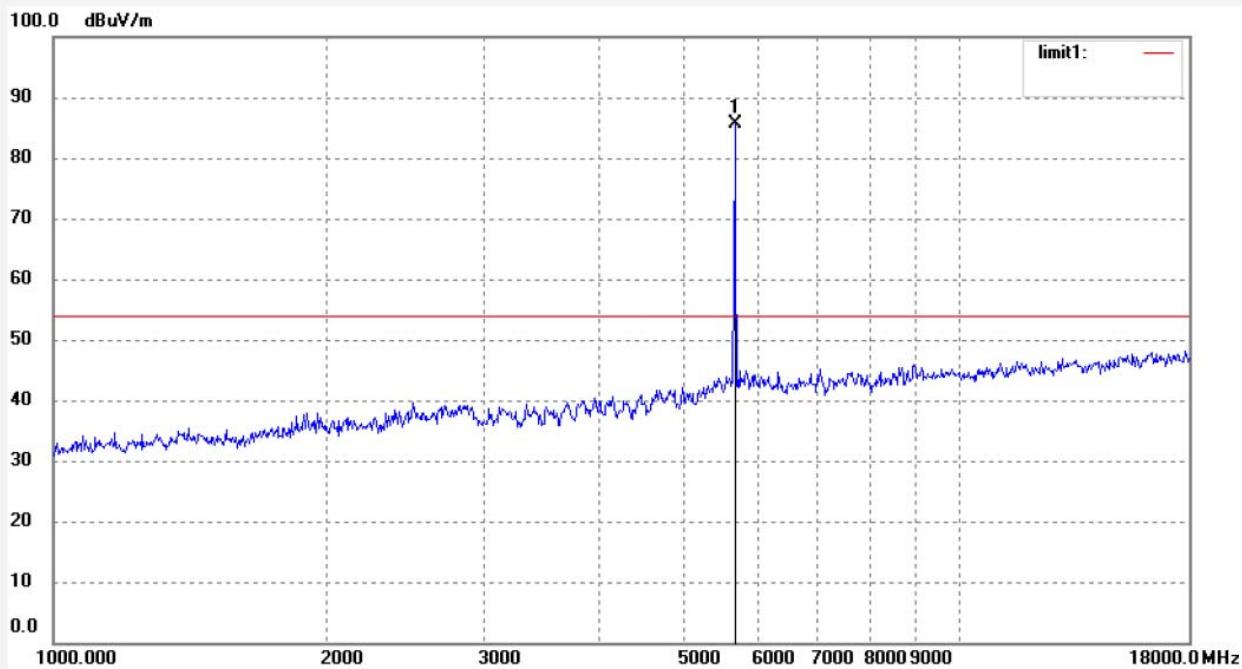
Mode: TX Channel 149-A

Distance: 3m

Model: M632USA1

Manufacturer: Xiamen Prima Technology Inc.

Note: Report NO.:ATE20172554



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	5745.024	82.94	2.68	85.62			peak	150	112	

Job No.: STAR2017 #917

Polarization: Horizontal

Standard: FCC Class B 3M Radiated

Power Source: DC 3.3V

Test item: Radiation Test

Date: 2018/01/23

Temp.(C)/Hum.(%) 25 C / 55 %

Time: 17/57/41

EUT: WiFi module

Engineer Signature: star

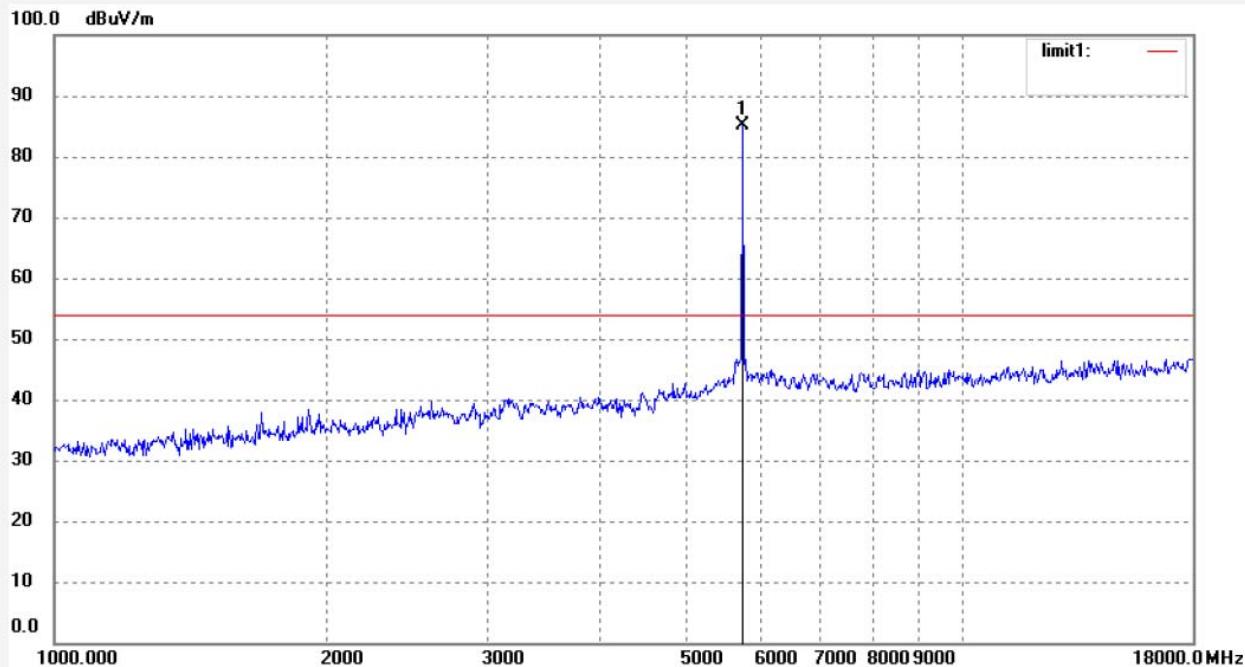
Mode: TX Channel 165-A

Distance: 3m

Model: M632USA1

Manufacturer: Xiamen Prima Technology Inc.

Note: Report NO.:ATE20172554



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	5825.015	82.42	2.79	85.21			peak	200	65	



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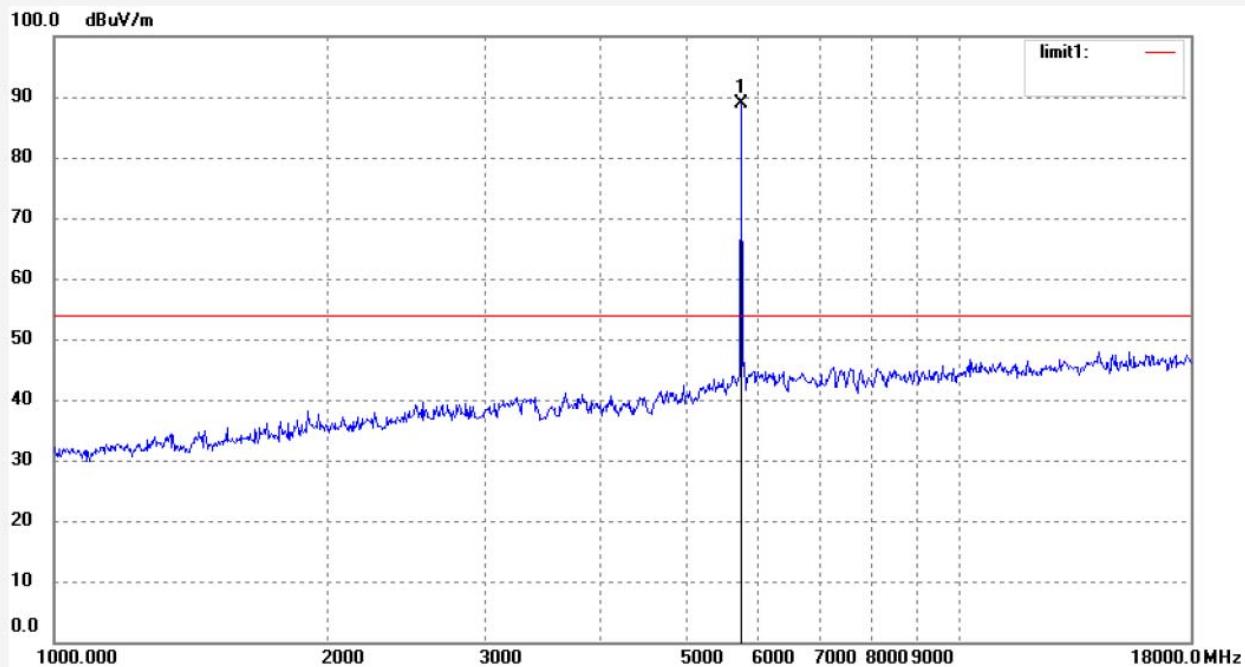
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Site: 1# Chamber
Tel:+86-0755-26503290
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Job No.: STAR2017 #916
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 25 C / 55 %
EUT: WiFi module
Mode: TX Channel 165-A
Model: M632USA1
Manufacturer: Xiamen Prima Technology Inc.

Polarization: Vertical
Power Source: DC 3.3V
Date: 2018/01/23
Time: 17:55:54
Engineer Signature: star
Distance: 3m

Note: Report NO.:ATE20172554



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	5825.200	86.14	2.76	88.90			peak	150	345	



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Job No.: STAR2017 #918

Polarization: Horizontal

Standard: FCC Class B 3M Radiated

Power Source: DC 3.3V

Test item: Radiation Test

Date: 2018/01/23

Temp.(C)/Hum.(%) 25 C / 55 %

Time: 18/10/07

EUT: WiFi module

Engineer Signature: star

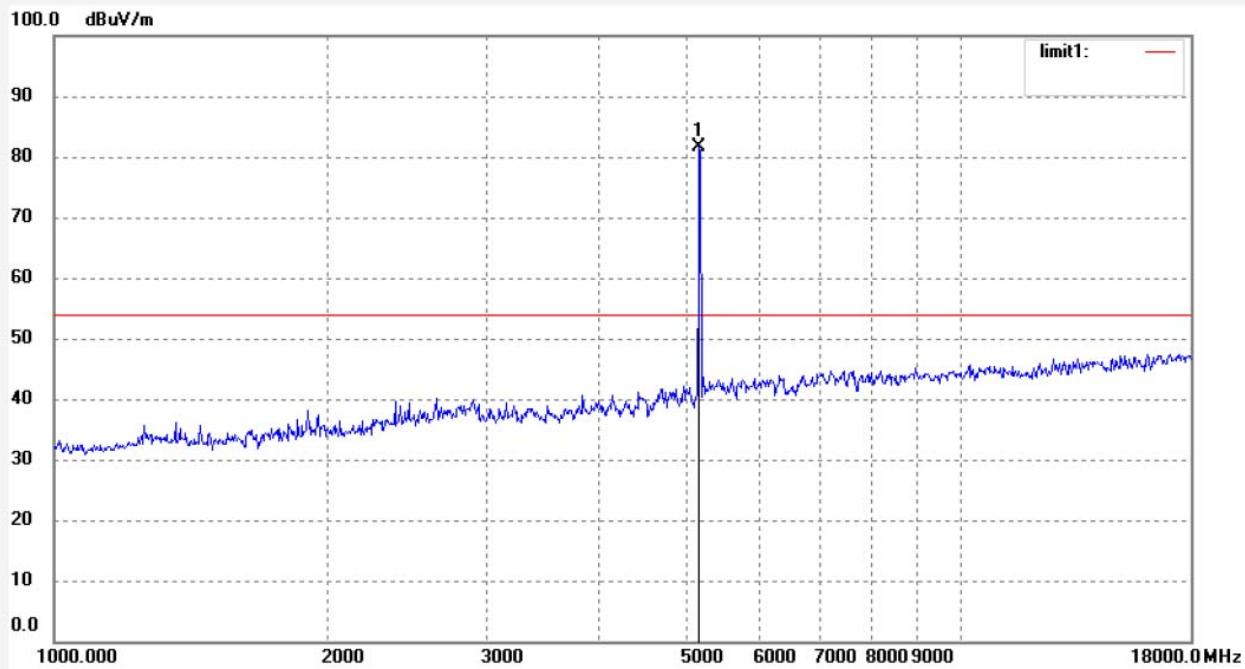
Mode: TX Channel 36-N 20MHz

Distance: 3m

Model: M632USA1

Manufacturer: Xiamen Prima Technology Inc.

Note: Report NO.:ATE20172554



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	5180.041	79.52	2.06	81.58			peak	200	175	



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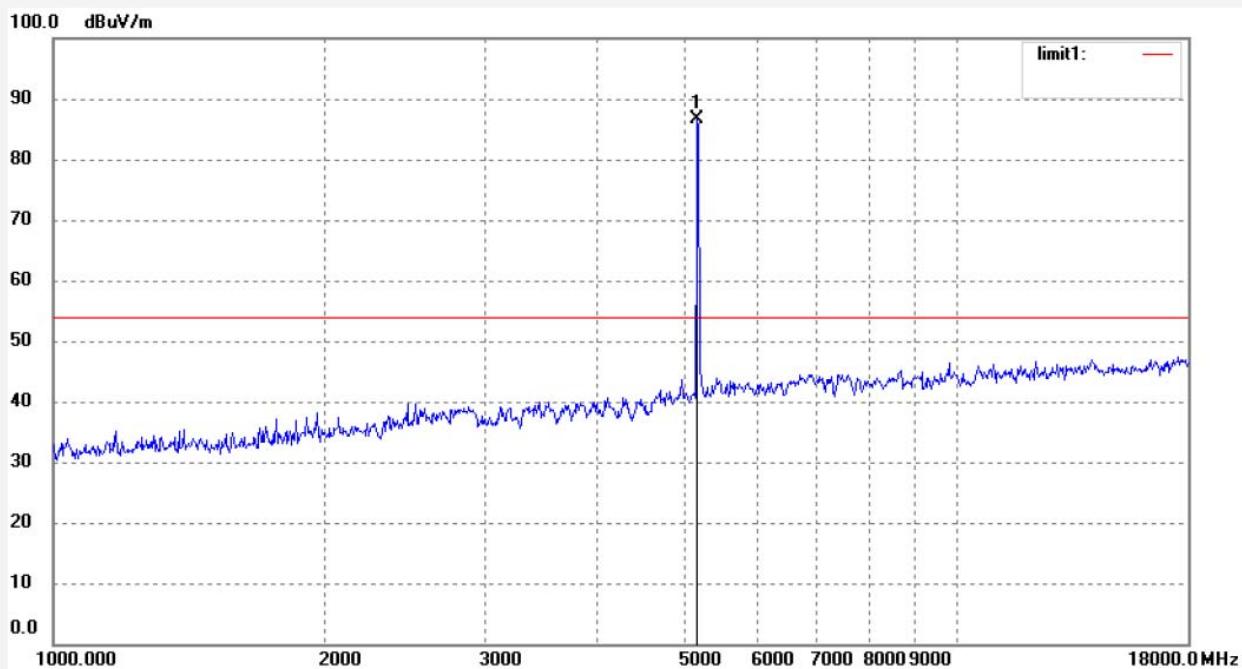
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Site: 1# Chamber
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Job No.: STAR2017 #919
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 25 C / 55 %
EUT: WiFi module
Mode: TX Channel 36-N 20MHz
Model: M632USA1
Manufacturer: Xiamen Prima Technology Inc.

Polarization: Vertical
Power Source: DC 3.3V
Date: 2018/01/23
Time: 18/11/27
Engineer Signature: star
Distance: 3m

Note: Report NO.:ATE20172554

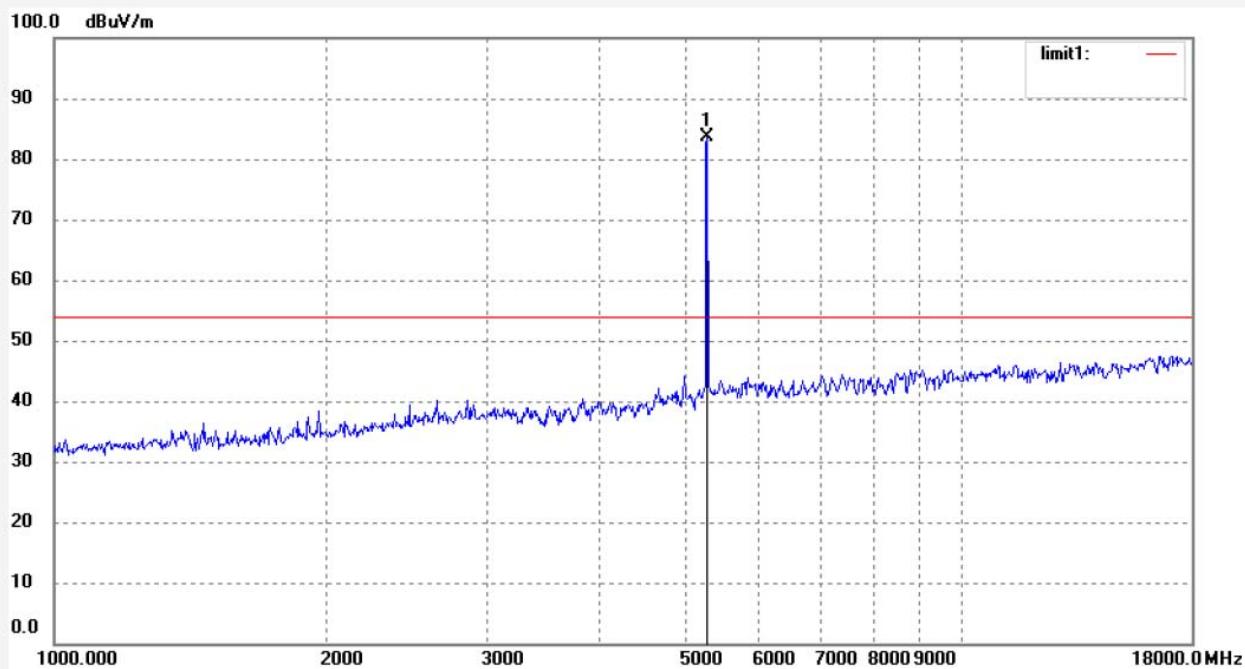


No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	5180.041	84.63	2.06	86.69			peak	150	239	

Job No.: STAR2017 #921
 Standard: FCC Class B 3M Radiated
 Test item: Radiation Test
 Temp.(C)/Hum.(%) 25 C / 55 %
 EUT: WiFi module
 Mode: TX Channel 48-N 20MHz
 Model: M632USA1
 Manufacturer: Xiamen Prima Technology Inc.

Polarization: Horizontal
 Power Source: DC 3.3V
 Date: 2018/01/23
 Time: 18/14/48
 Engineer Signature: star
 Distance: 3m

Note: Report NO.:ATE20172554



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	5240.115	81.36	2.17	83.53			peak	200	135	



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Job No.: STAR2017 #920

Polarization: Vertical

Standard: FCC Class B 3M Radiated

Power Source: DC 3.3V

Test item: Radiation Test

Date: 2018/01/23

Temp.(C)/Hum.(%) 25 C / 55 %

Time: 18/13/34

EUT: WiFi module

Engineer Signature: star

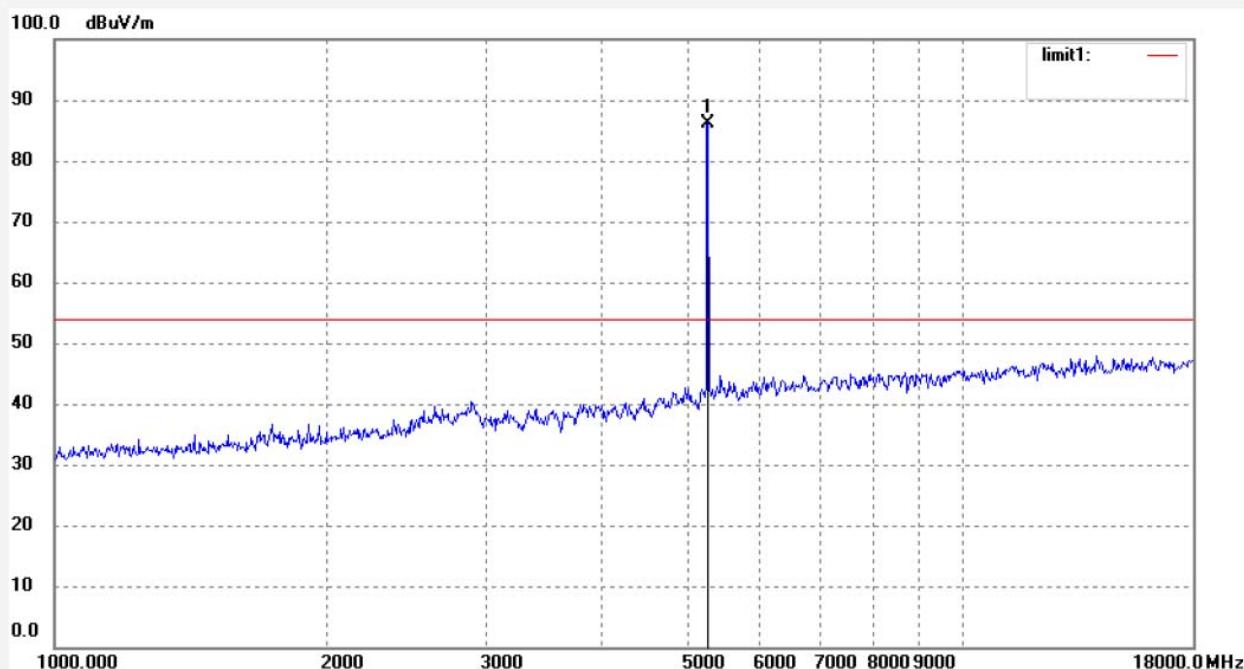
Mode: TX Channel 48-N 20MHz

Distance: 3m

Model: M632USA1

Manufacturer: Xiamen Prima Technology Inc.

Note: Report NO.:ATE20172554



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	5240.115	84.08	2.17	86.25			peak	200	166	



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Job No.: STAR2017 #922

Polarization: Horizontal

Standard: FCC Class B 3M Radiated

Power Source: DC 3.3V

Test item: Radiation Test

Date: 2018/01/23

Temp.(C)/Hum.(%) 25 C / 55 %

Time: 18/16/46

EUT: WiFi module

Engineer Signature: star

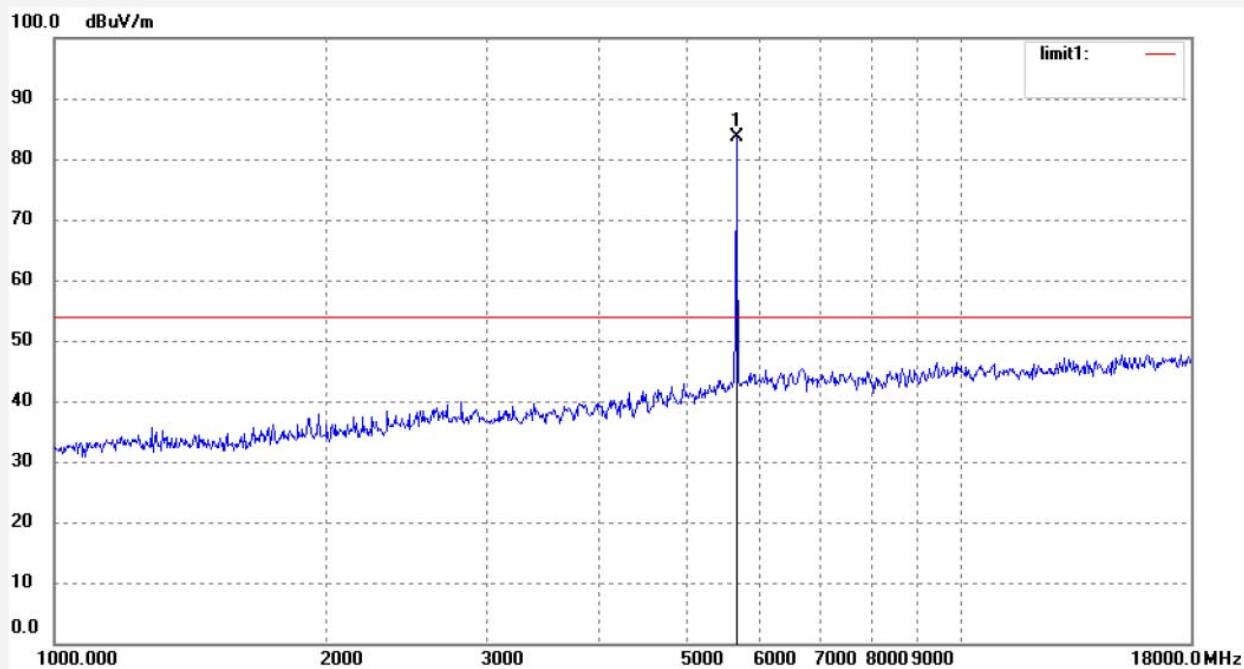
Mode: TX Channel 149-N 20MHz

Distance: 3m

Model: M632USA1

Manufacturer: Xiamen Prima Technology Inc.

Note: Report NO.:ATE20172554

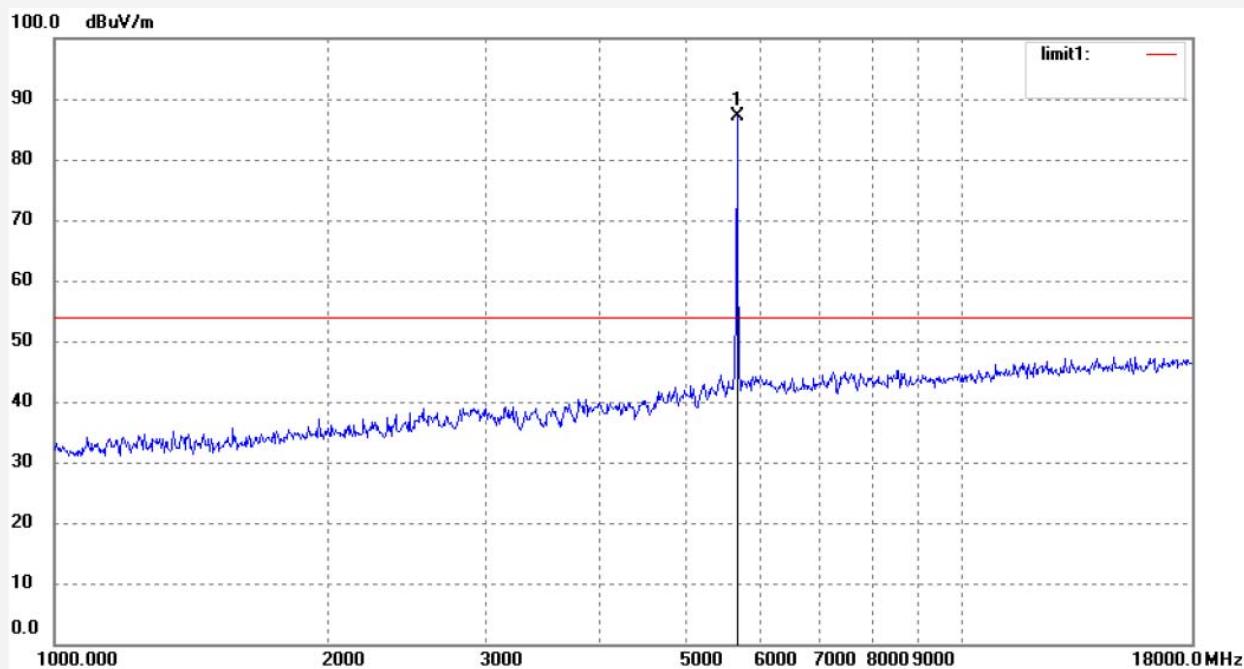


No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	5745.124	81.05	2.68	83.73			peak	200	255	

Job No.: STAR2017 #923
 Standard: FCC Class B 3M Radiated
 Test item: Radiation Test
 Temp.(C)/Hum.(%) 25 C / 55 %
 EUT: WiFi module
 Mode: TX Channel 149-N 20MHz
 Model: M632USA1
 Manufacturer: Xiamen Prima Technology Inc.

Polarization: Vertical
 Power Source: DC 3.3V
 Date: 2018/01/23
 Time: 18/18/28
 Engineer Signature: star
 Distance: 3m

Note: Report NO.:ATE20172554



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	5745.024	84.34	2.68	87.02			peak	150	312	



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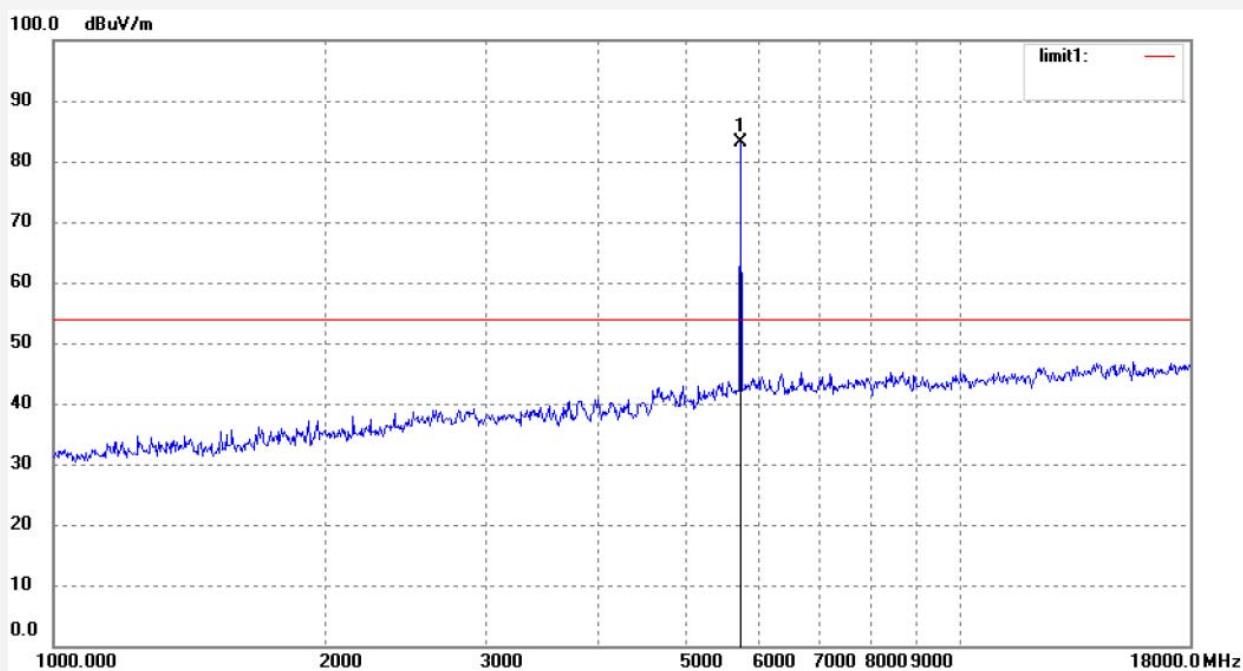
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Job No.: STAR2017 #925
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 25 C / 55 %
EUT: WiFi module
Mode: TX Channel 165-N 20MHz
Model: M632USA1
Manufacturer: Xiamen Prima Technology Inc.

Polarization: Horizontal
Power Source: DC 3.3V
Date: 2018/01/23
Time: 18/21/38
Engineer Signature: star
Distance: 3m

Note: Report NO.:ATE20172554



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	5825.200	80.29	2.76	83.05			peak	200	109	



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Job No.: STAR2017 #924

Polarization: Vertical

Standard: FCC Class B 3M Radiated

Power Source: DC 3.3V

Test item: Radiation Test

Date: 2018/01/23

Temp.(C)/Hum.(%) 25 C / 55 %

Time: 18/20/20

EUT: WiFi module

Engineer Signature: star

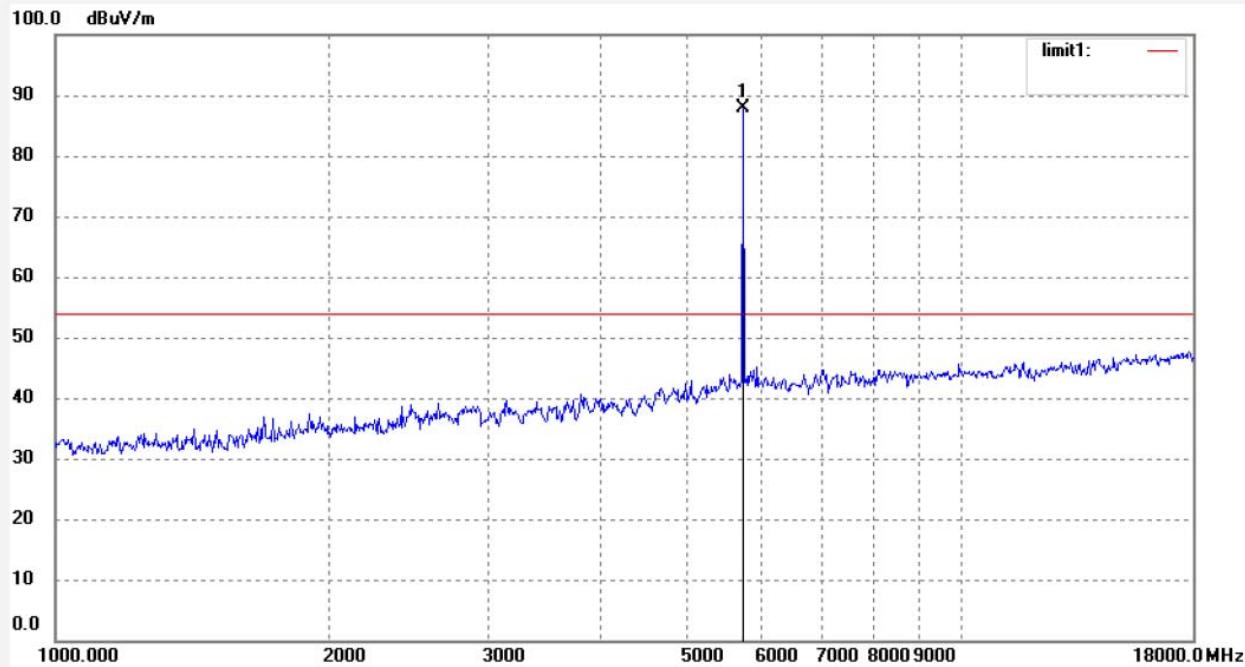
Mode: TX Channel 165-N 20MHz

Distance: 3m

Model: M632USA1

Manufacturer: Xiamen Prima Technology Inc.

Note: Report NO.:ATE20172554

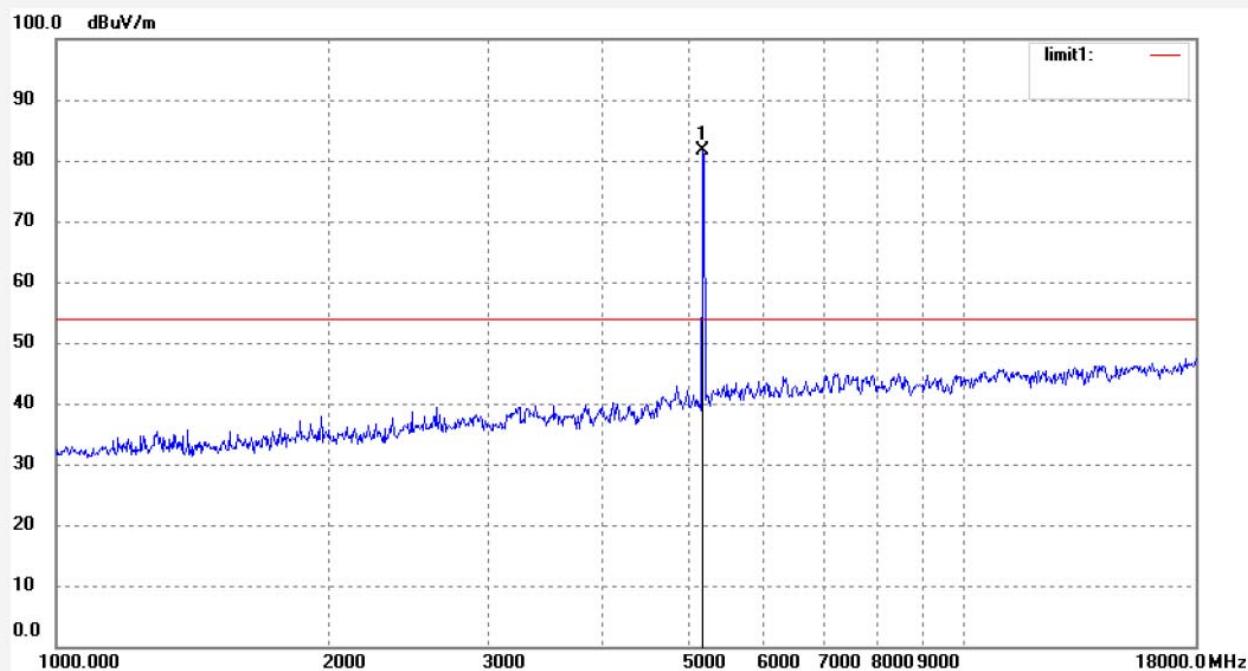


No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	5825.200	85.06	2.76	87.82			peak	150	72	

Job No.: STAR2017 #926
 Standard: FCC Class B 3M Radiated
 Test item: Radiation Test
 Temp.(C)/Hum.(%) 25 C / 55 %
 EUT: WiFi module
 Mode: TX Channel 36-AC 20MHz
 Model: M632USA1
 Manufacturer: Xiamen Prima Technology Inc.

Polarization: Horizontal
 Power Source: DC 3.3V
 Date: 2018/01/23
 Time: 18/31/23
 Engineer Signature: star
 Distance: 3m

Note: Report NO.:ATE20172554



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	5180.041	79.67	2.06	81.73			peak	200	102	



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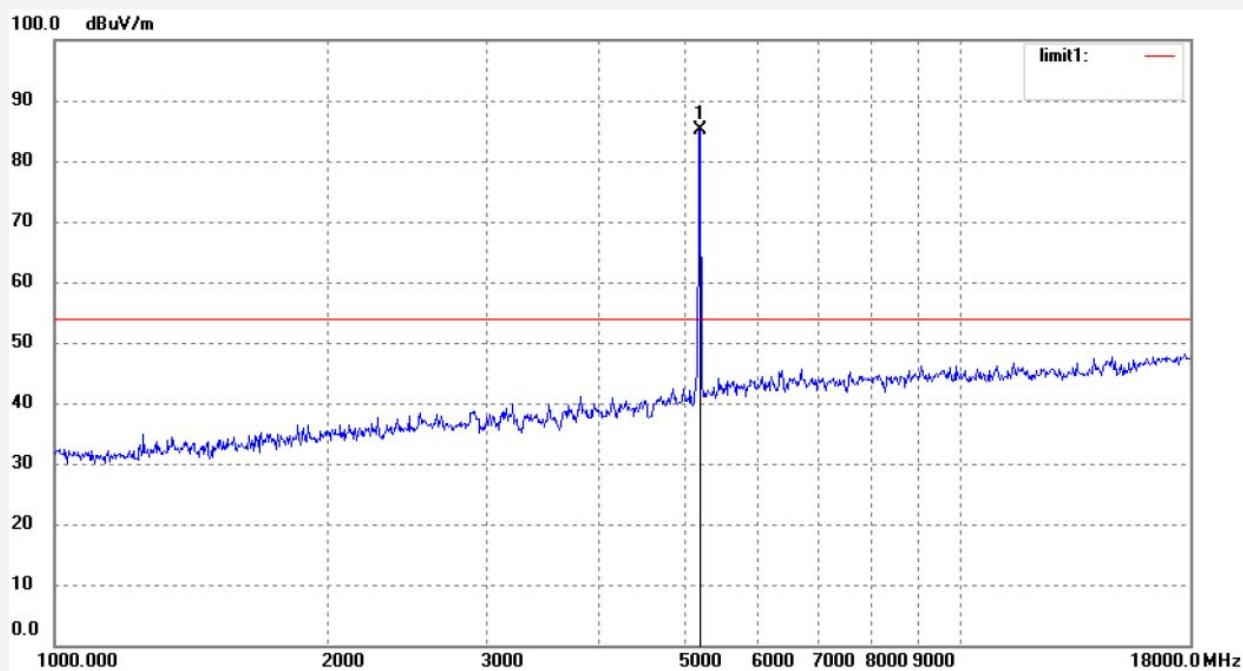
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Job No.: STAR2017 #927
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 25 C / 55 %
EUT: WiFi module
Mode: TX Channel 36-AC 20MHz
Model: M632USA1
Manufacturer: Xiamen Prima Technology Inc.

Polarization: Vertical
Power Source: DC 3.3V
Date: 2018/01/23
Time: 18/32/43
Engineer Signature: star
Distance: 3m

Note: Report NO.:ATE20172554



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	5180.093	83.13	2.07	85.20			peak	150	328	



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Job No.: STAR2017 #929

Polarization: Horizontal

Standard: FCC Class B 3M Radiated

Power Source: DC 3.3V

Test item: Radiation Test

Date: 2018/01/23

Temp.(C)/Hum.(%) 25 C / 55 %

Time: 18/36/24

EUT: WiFi module

Engineer Signature: star

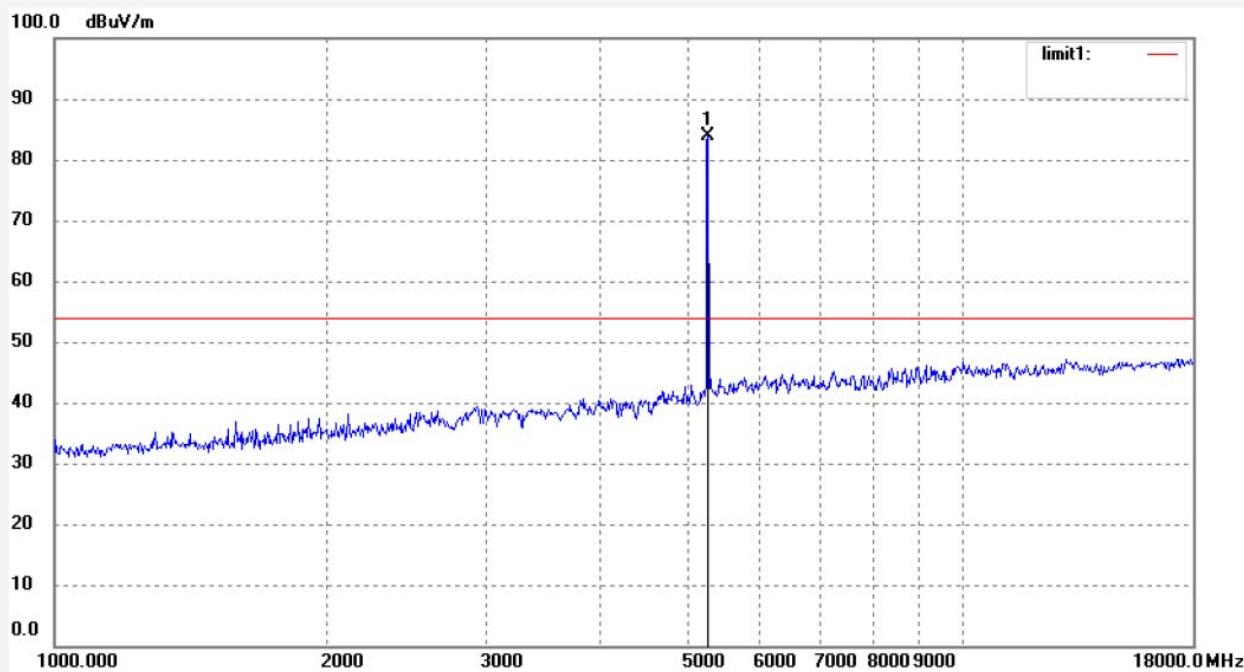
Mode: TX Channel 48-AC 20MHz

Distance: 3m

Model: M632USA1

Manufacturer: Xiamen Prima Technology Inc.

Note: Report NO.:ATE20172554



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	5240.015	81.67	2.17	83.84			peak	200	166	



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Job No.: STAR2017 #928

Polarization: Vertical

Standard: FCC Class B 3M Radiated

Power Source: DC 3.3V

Test item: Radiation Test

Date: 2018/01/23

Temp.(C)/Hum.(%) 25 C / 55 %

Time: 18/34/55

EUT: WiFi module

Engineer Signature: star

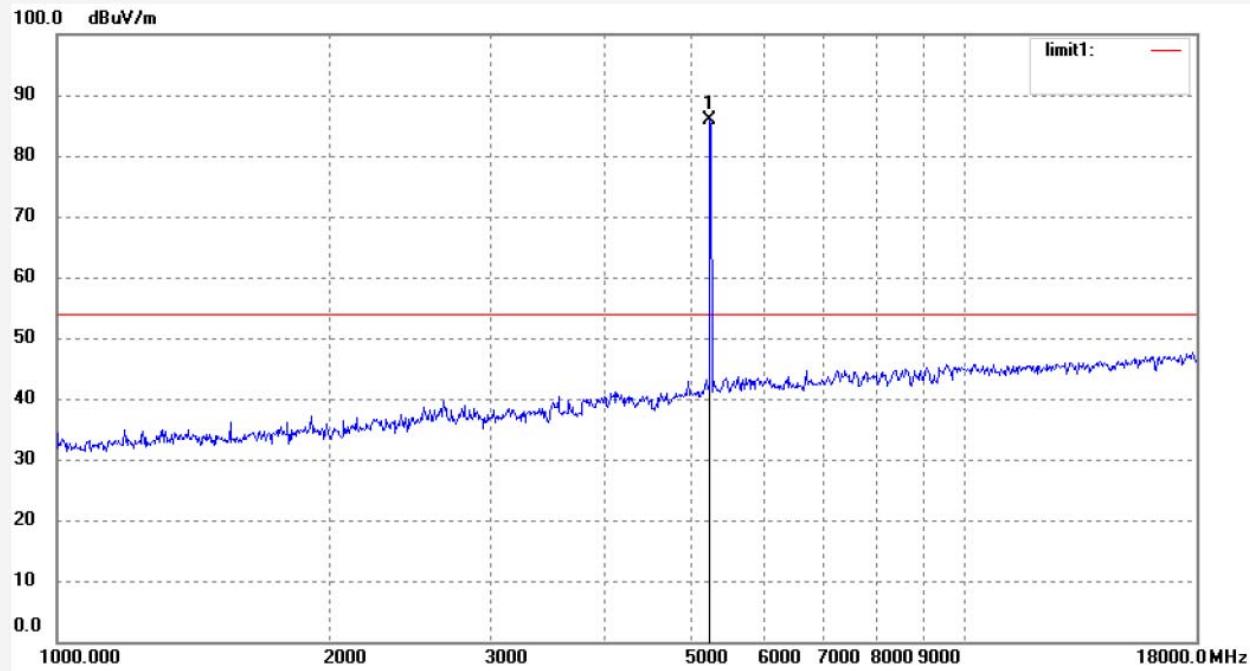
Mode: TX Channel 48-AC 20MHz

Distance: 3m

Model: M632USA1

Manufacturer: Xiamen Prima Technology Inc.

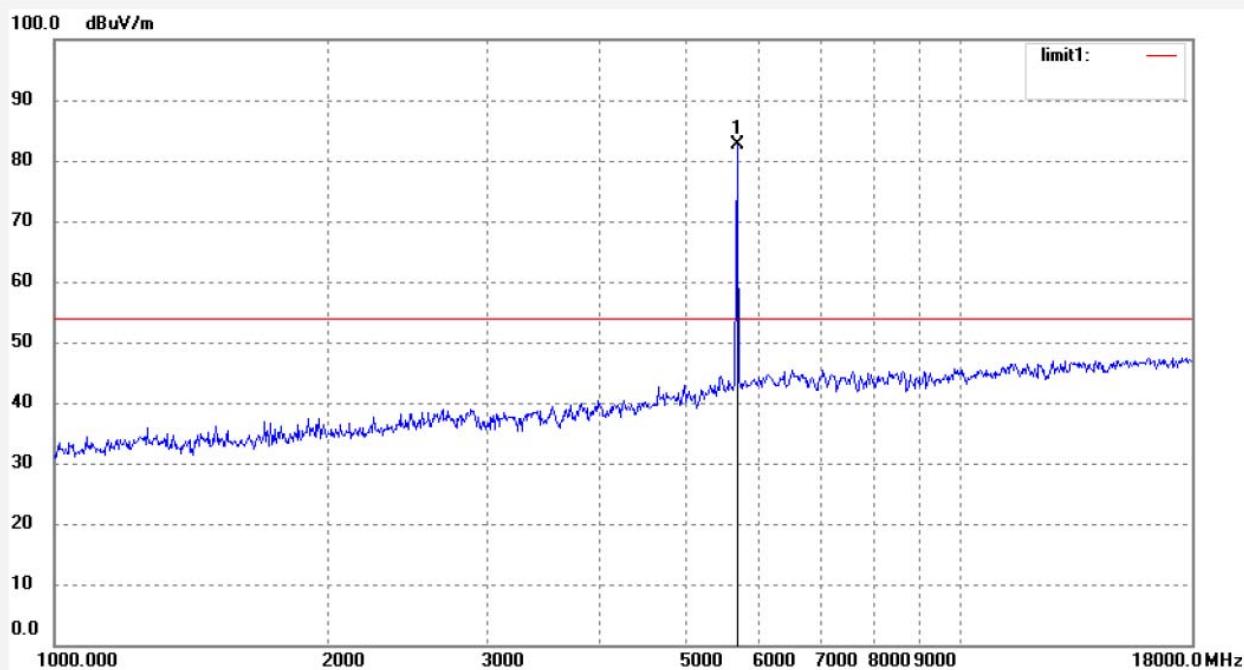
Note: Report NO.:ATE20172554



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	5240.042	83.76	2.15	85.91			peak	150	64	

Job No.: STAR2017 #930 Polarization: Horizontal
 Standard: FCC Class B 3M Radiated Power Source: DC 3.3V
 Test item: Radiation Test Date: 2018/01/23
 Temp.(C)/Hum.(%) 25 C / 55 % Time: 18/38/22
 EUT: WiFi module Engineer Signature: star
 Mode: TX Channel 149-AC 20MHz Distance: 3m
 Model: M632USA1
 Manufacturer: Xiamen Prima Technology Inc.

Note: Report NO.:ATE20172554



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	5745.024	80.01	2.68	82.69			peak	200	163	



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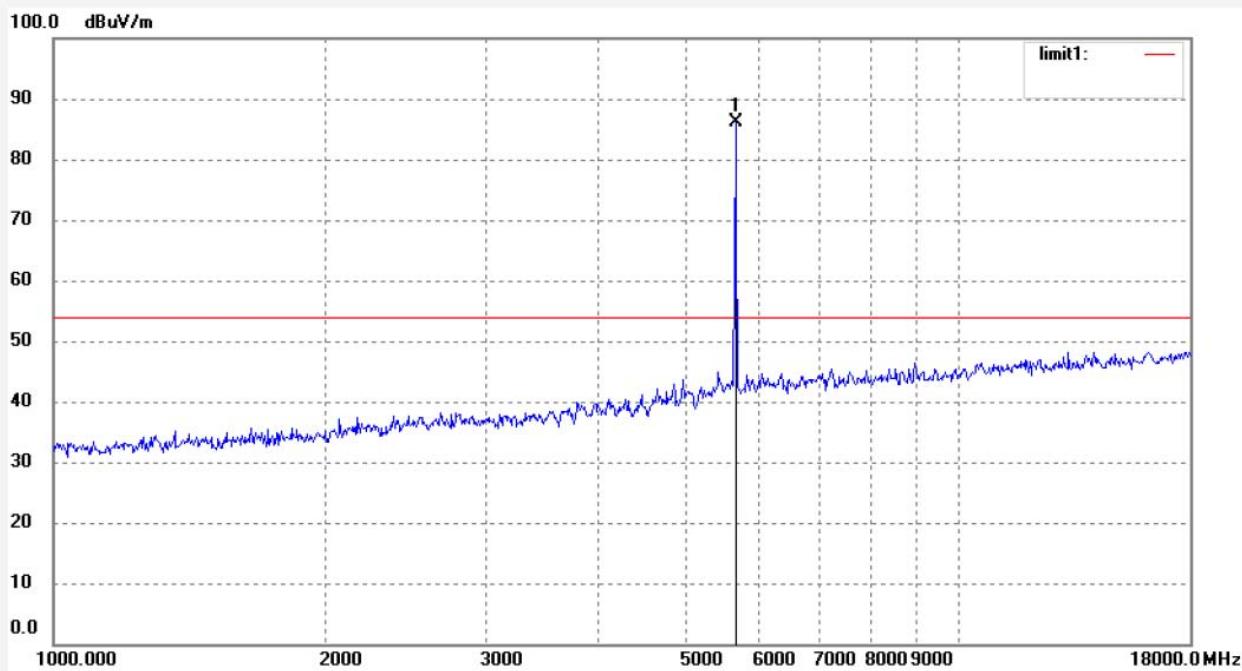
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Job No.: STAR2017 #931
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp. (C)/Hum.(%) 25 C / 55 %
EUT: WiFi module
Mode: TX Channel 149-AC 20MHz
Model: M632USA1
Manufacturer: Xiamen Prima Technology Inc.

Polarization: Vertical
Power Source: DC 3.3V
Date: 2018/01/23
Time: 18/40/01
Engineer Signature: star
Distance: 3m

Note: Report NO.:ATE20172554



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	5745.024	83.35	2.68	86.03			peak	150	209	



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Job No.: STAR2017 #932

Polarization: Vertical

Standard: FCC Class B 3M Radiated

Power Source: DC 3.3V

Test item: Radiation Test

Date: 2018/01/23

Temp.(C)/Hum.(%) 25 C / 55 %

Time: 18/42/19

EUT: WiFi module

Engineer Signature: star

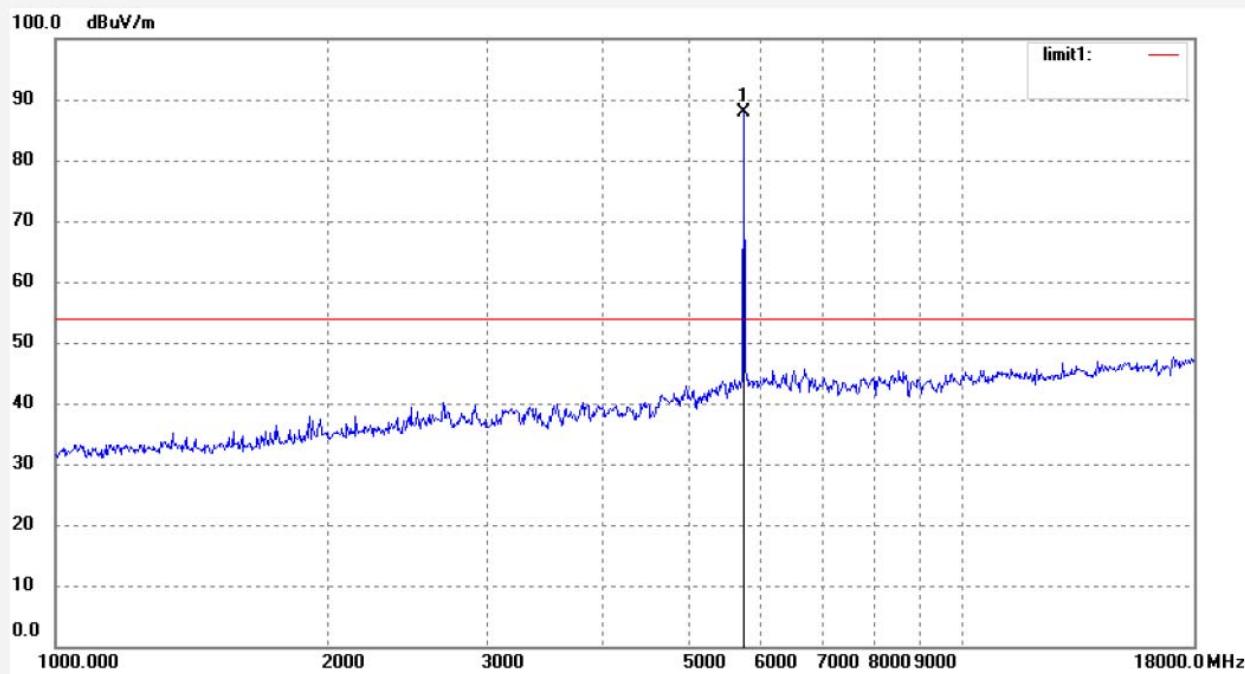
Mode: TX Channel 165-AC 20MHz

Distance: 3m

Model: M632USA1

Manufacturer: Xiamen Prima Technology Inc.

Note: Report NO.:ATE20172554



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	5825.015	85.10	2.79	87.89			peak	150	226	