

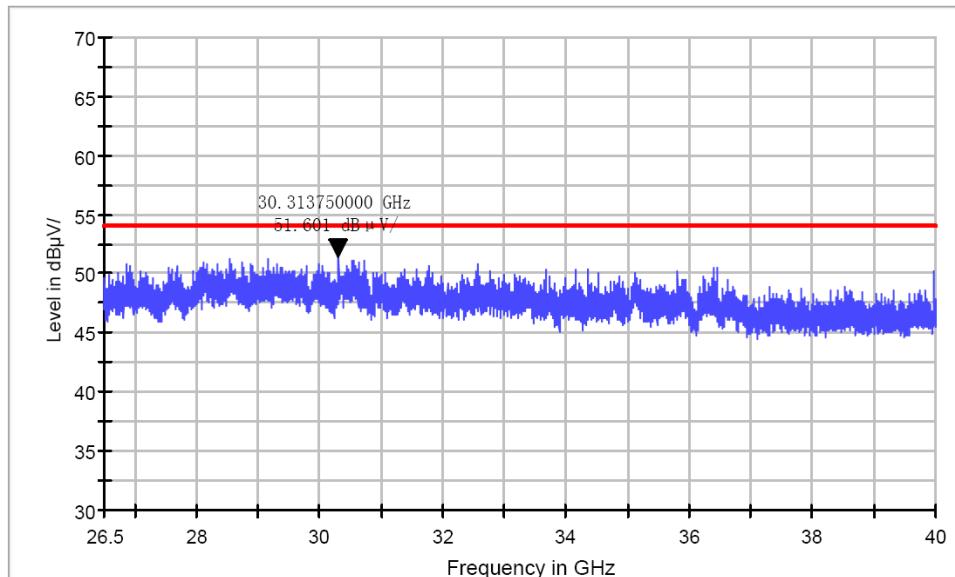
Test mode: 802.11N40,ac TX Frequency: 5755MHz, 5795MHz

The EUT is tested radiation emission at each test mode 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

Common Information

Test Site: SMQ EMC Lab.
Environment Conditions:
Antenna Polarization: Horizontal
Operator Name:
Comment:

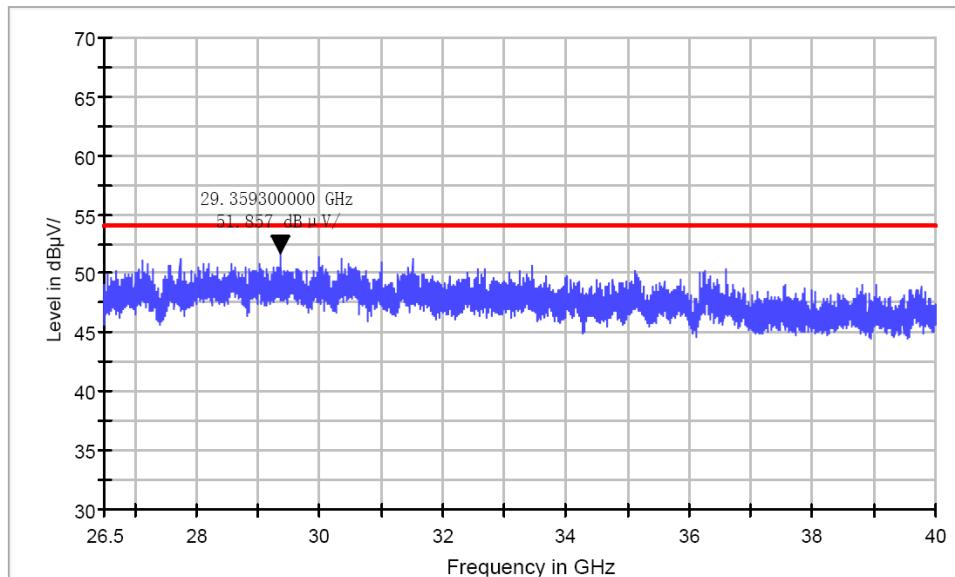
Copy of FCC Electric Field Strength 26.5-40GHz



Common Information

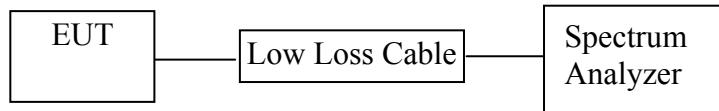
Test Site: SMQ EMC Lab.
Environment Conditions:
Antenna Polarization: Vertical
Operator Name:
Comment:

Copy of FCC Electric Field Strength 26.5-40GHz



11.BAND EDGE COMPLIANCE TEST

11.1.Block Diagram of Test Setup



11.2.The Requirement For Unwanted Emissions in the Restricted Bands

1. For all measurements, follow the requirements in section II.G.3., “General Requirements for Unwanted Emissions Measurements.”
2. At frequencies below 1000 MHz, use the procedure described in section II.G.4., “Procedure for Unwanted Emissions Measurements Below 1000 MHz.”
3. At frequencies above 1000 MHz, measurements performed using the peak and average measurement procedures described in sections II.G.5. and II.G.6, respectively, must satisfy the respective peak and average limits.
If all peak measurements satisfy the average limit, then average measurements are not required.
4. For conducted measurements above 1000 MHz, EIRP shall be computed as specified in section II.G.3.b) and then field strength shall be computed as follows (see KDB Publication 412172):
$$E[\text{dB}\mu\text{V}/\text{m}] = \text{EIRP}[\text{dBm}] - 20 \log(d[\text{meters}]) + 104.77,$$
where E = field strength and d = distance at which field strength limit is specified in the rules;
$$E[\text{dB}\mu\text{V}/\text{m}] = \text{EIRP}[\text{dBm}] + 95.2, \text{ for } d = 3 \text{ meters.}$$

11.3.EUT Configuration on Measurement

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

11.4.Operating Condition of EUT

11.4.1.Setup the EUT and simulator as shown as Section 11.1.

11.4.2.Turn on the power of all equipment.

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

11.5. Test Procedure

Conducted Band Edge:

11.5.1. The transmitter output was connected to the spectrum analyzer via a low loss cable.

11.5.2. Set RBW of spectrum analyzer to 100kHz and VBW to 300kHz.

Radiate Band Edge:

11.5.3. The EUT is placed on a turntable, which is 1.5m above the ground plane and worked at highest radiated power.

11.5.4. The turntable was rotated for 360 degrees to determine the position of maximum emission level.

11.5.5. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emission.

11.5.6. Set the spectrum analyzer in the following setting in order to capture the lower and upper band-edges of the emission:

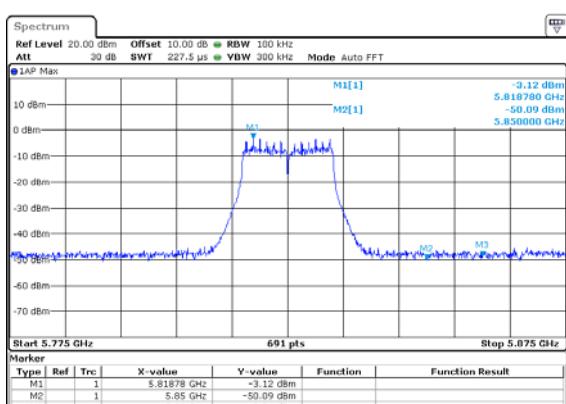
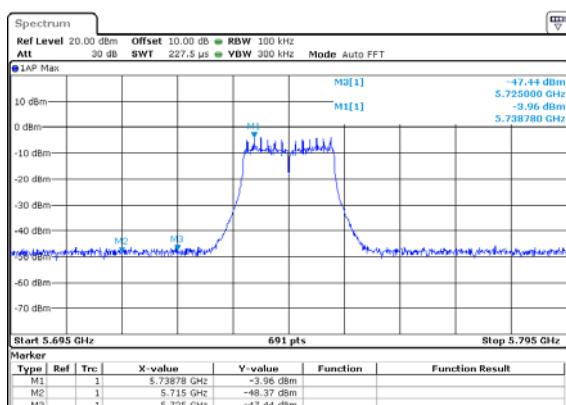
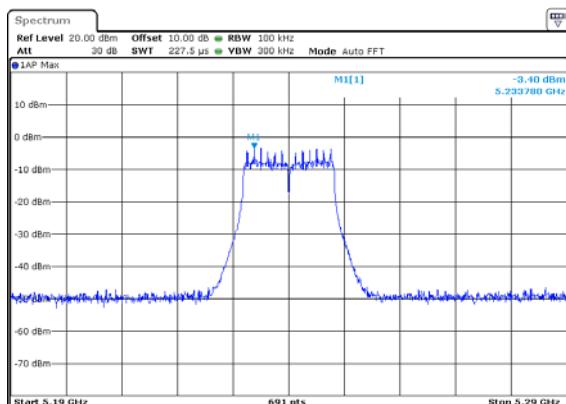
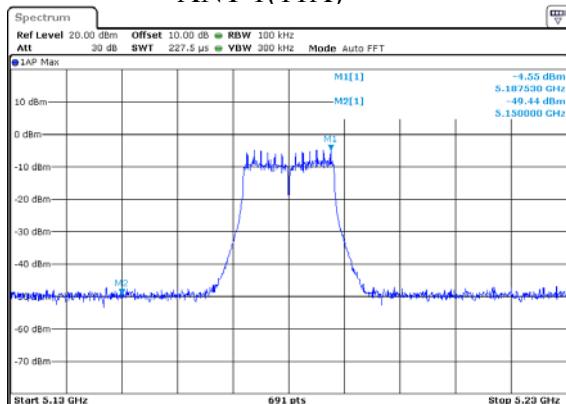
11.5.7. RBW=1MHz, VBW=1MHz

11.5.8. The band edges was measured and recorded.

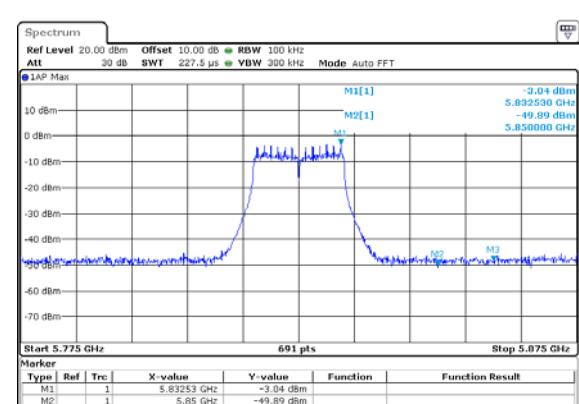
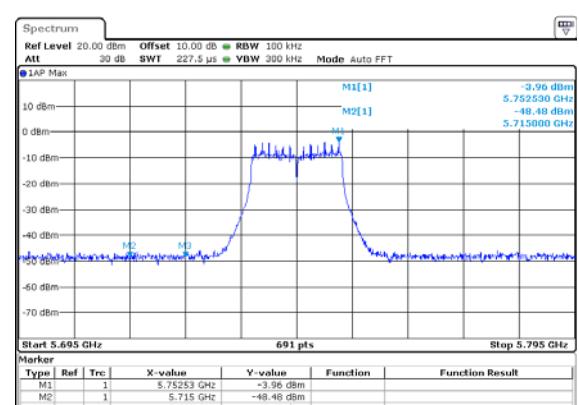
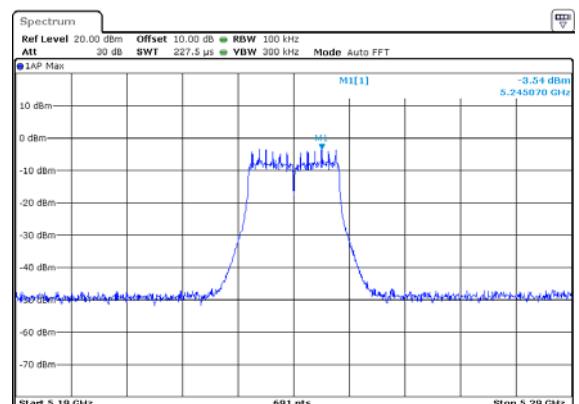
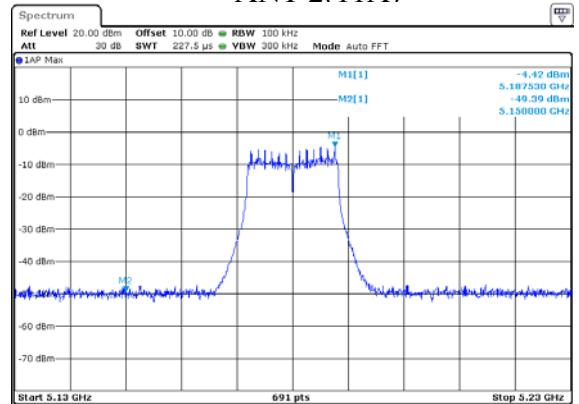
11.6. Test Result

PASS

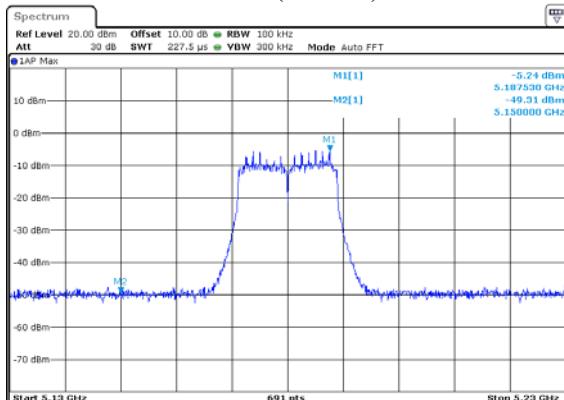
ANT 1(11A)



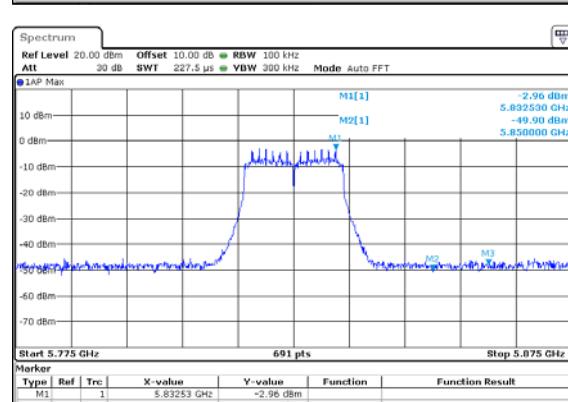
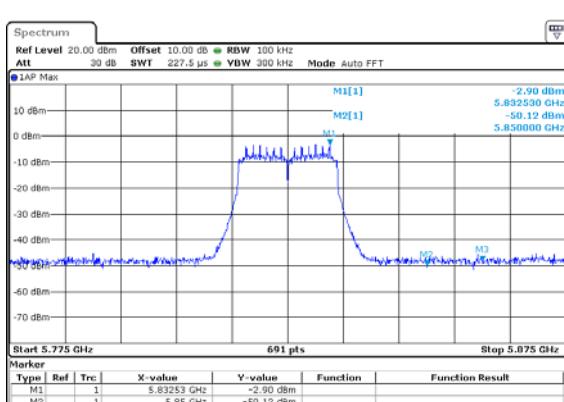
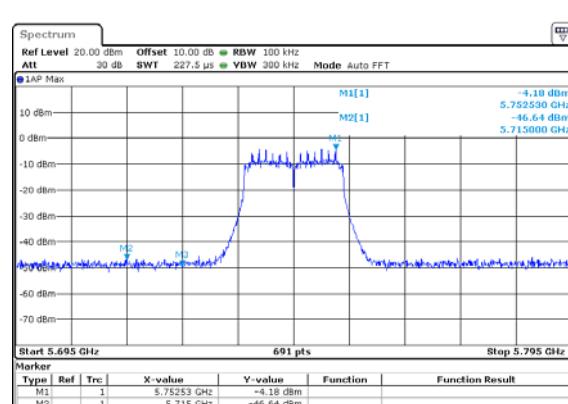
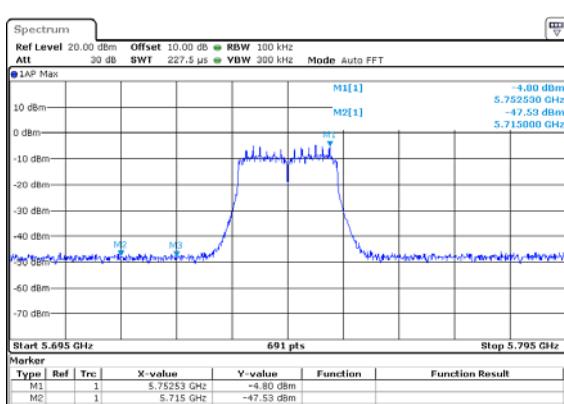
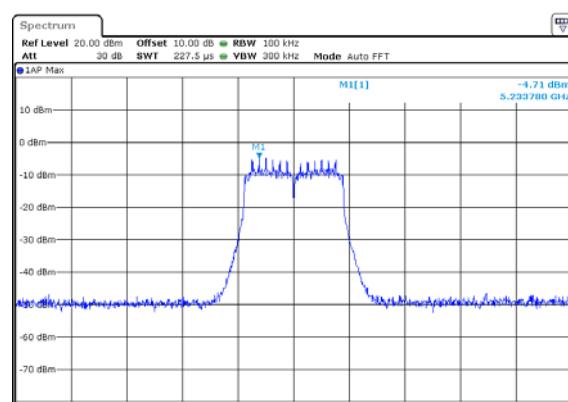
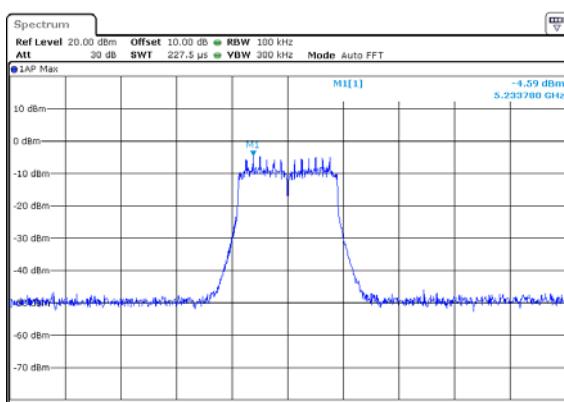
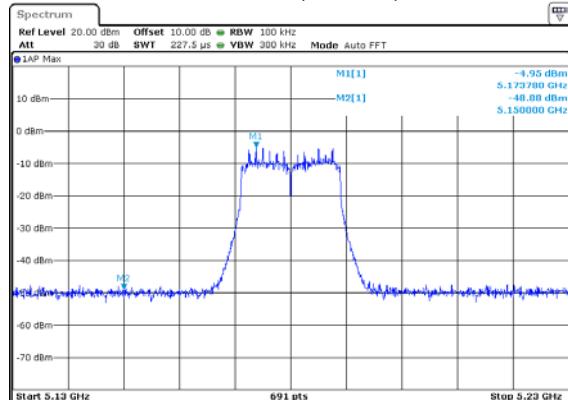
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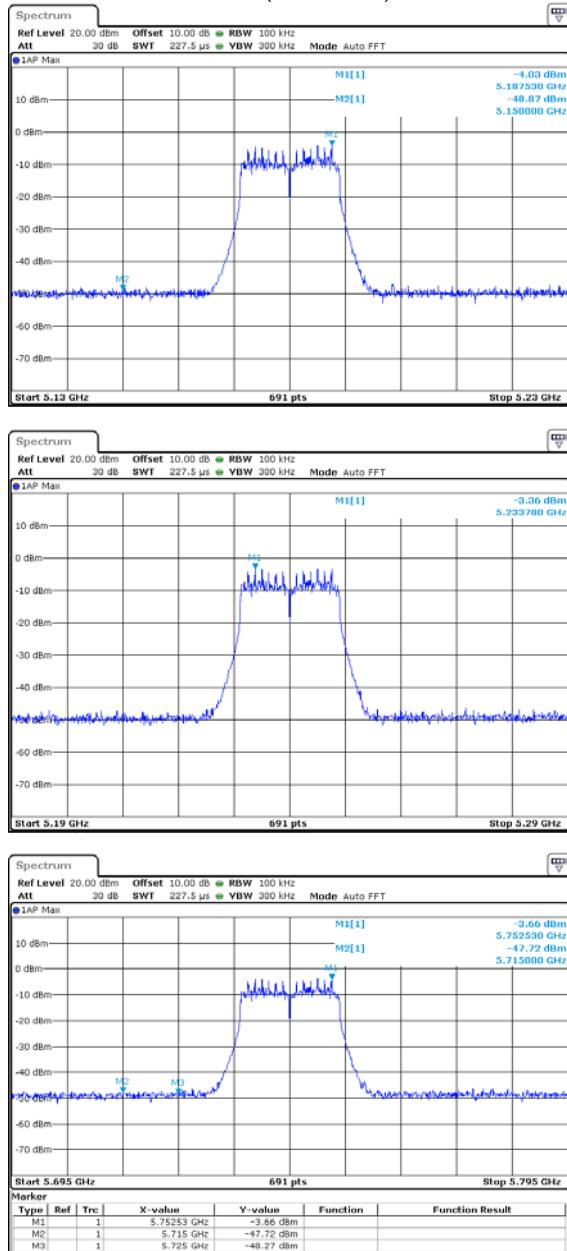
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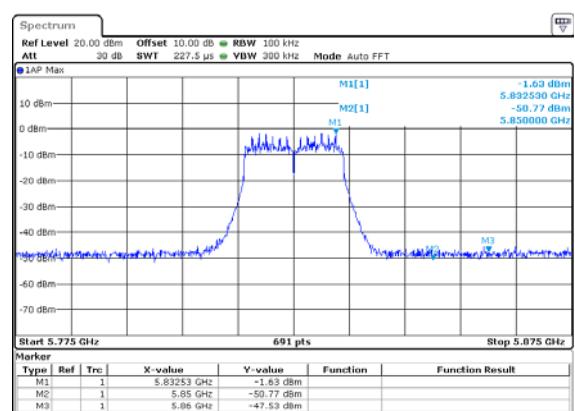
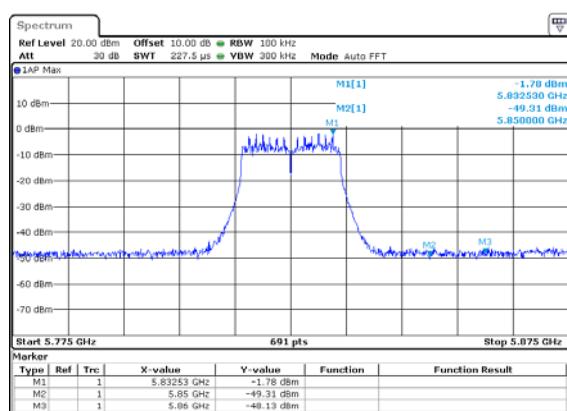
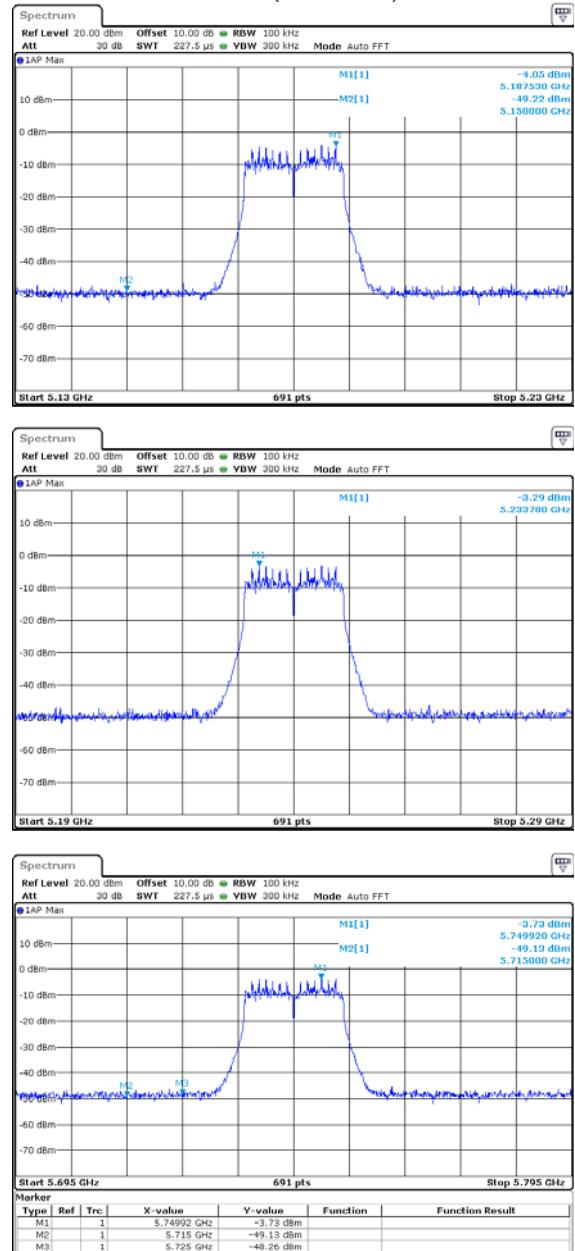
ANT 2(11N20)



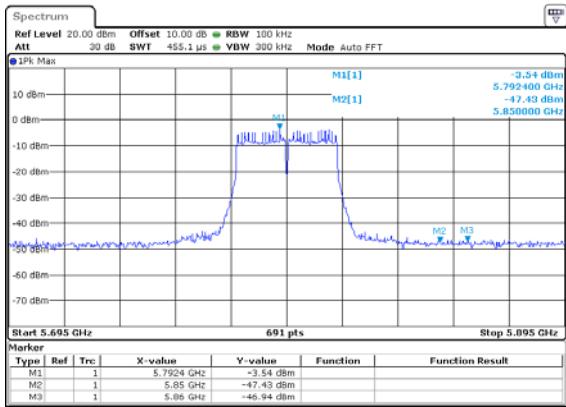
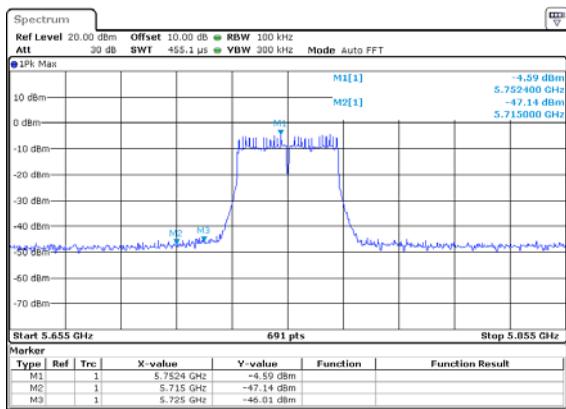
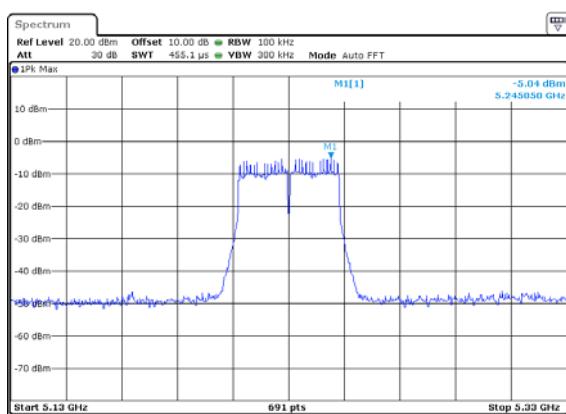
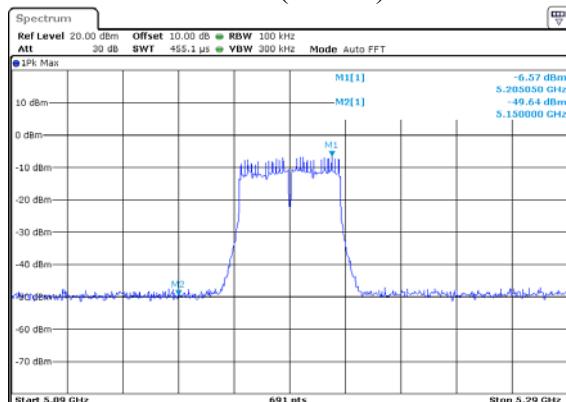
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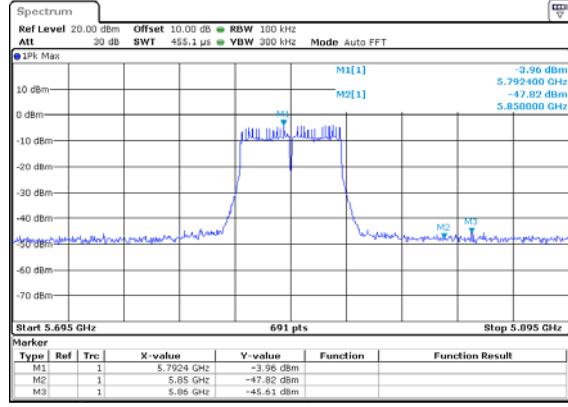
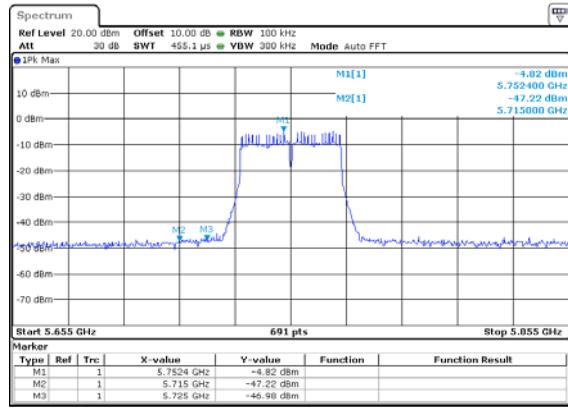
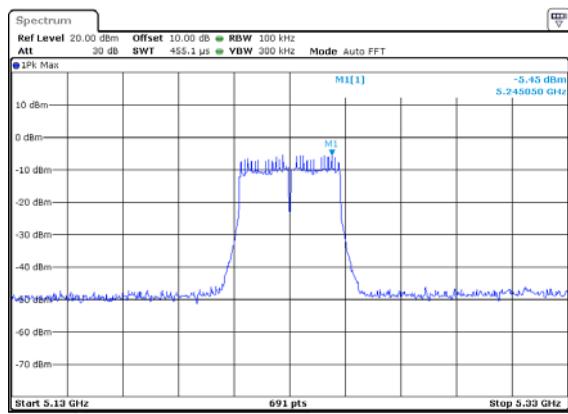
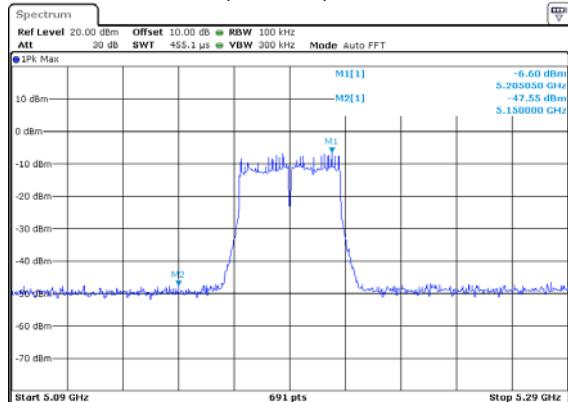
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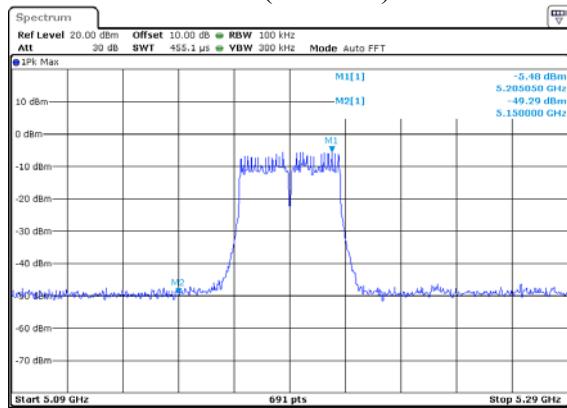
ANT 1(11N40)



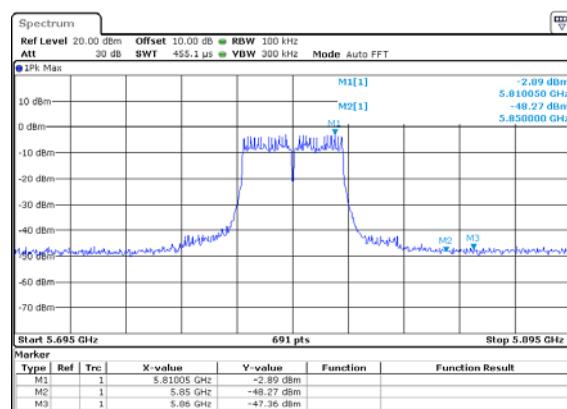
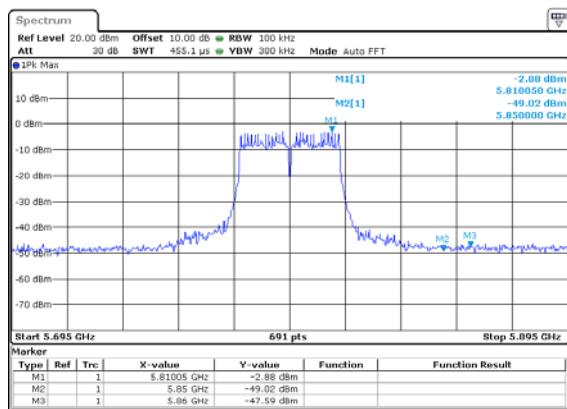
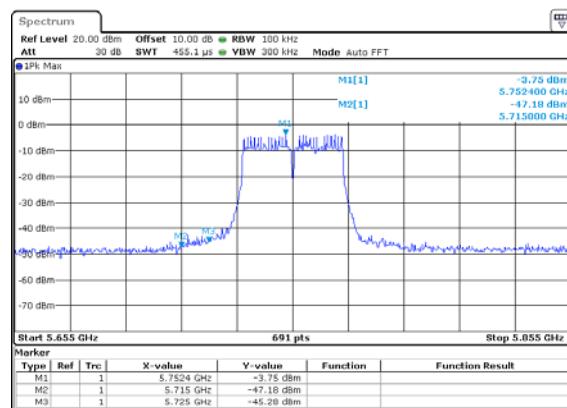
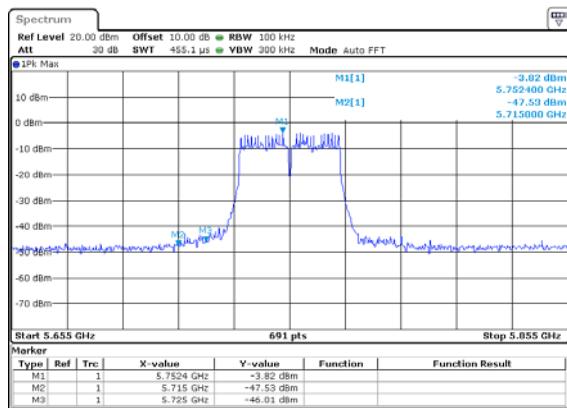
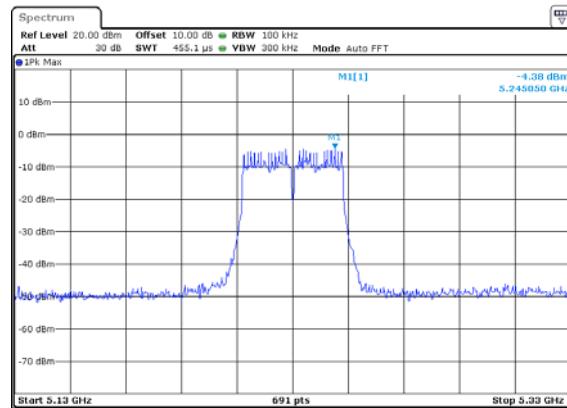
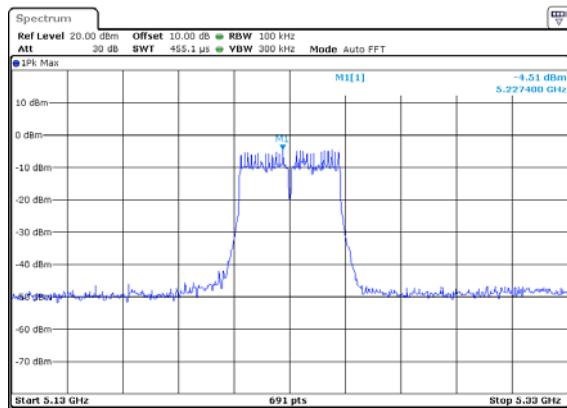
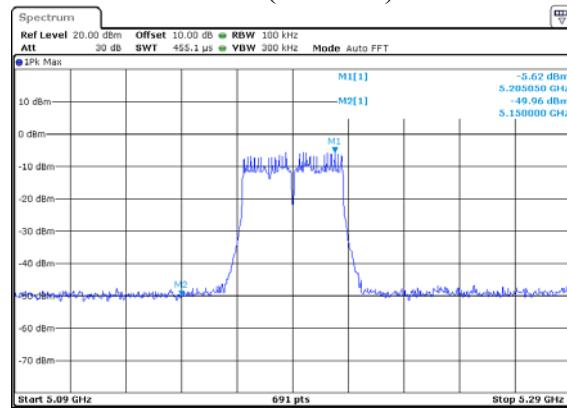
ANT 2(11N40)



ANT 1(11AC40)



ANT 2(11AC40)



Radiated Band Edge Result

Note:

1. Emissions attenuated more than 20 dB below the permissible value are not reported.
2. The field strength is calculated by adding the antenna factor, high pass filter loss(if used) and cable loss, and subtracting the amplifier gain(if any)from the measured reading. The basic equation calculation is as follows:

$$\text{Result} = \text{Reading} + \text{Corrected Factor}$$

3. Display the measurement of peak values.

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.

5. The average measurement was not performed when peak measured data under the limit of average detection.

Test mode: 802.11a TX Frequency: 5180MHz, 5240MHz, 5745MHz, 5825MHz

The EUT is tested Radiated Band Edge at each test mode 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



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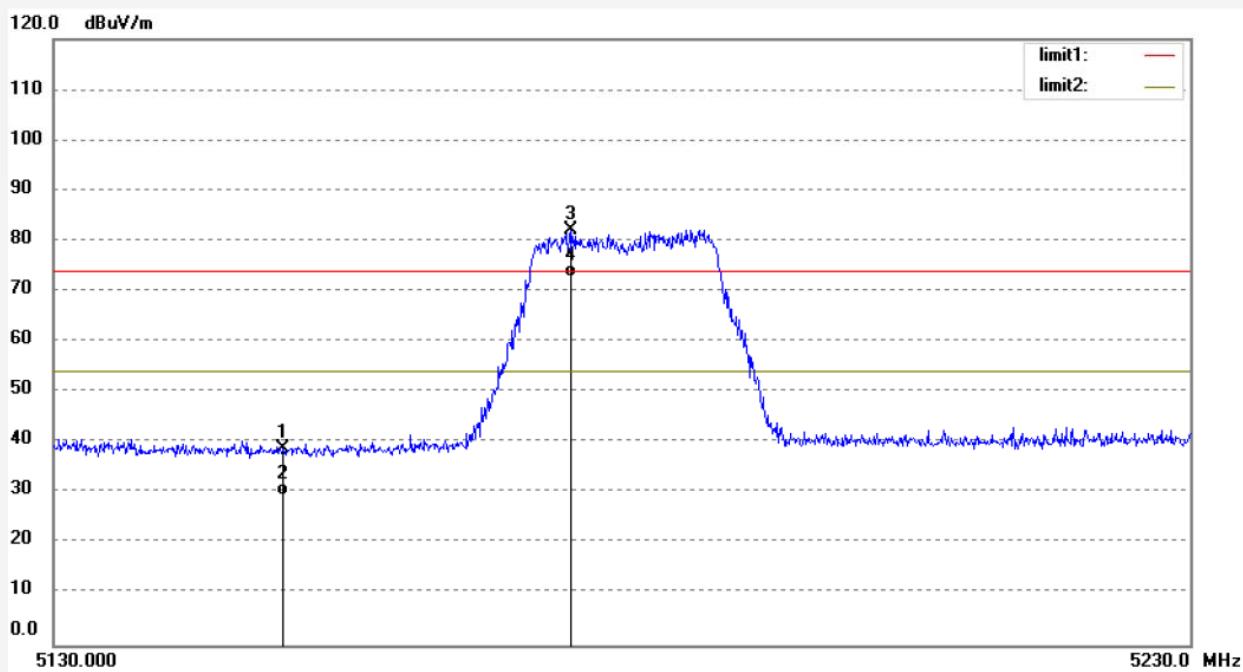
F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 1# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.:	star2017 #990	Polarization:	Horizontal
Standard:	FCC PK	Power Source:	DC 3.3V
Test item:	Radiation Test	Date:	2018/01/23
Temp.(C)/Hum.(%)	25 C / 55 %	Time:	8/50/23
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	5150.000	36.74	2.04	38.78	74.00	-35.22	peak	200	179	
2	5150.000	27.64	2.04	29.68	54.00	-24.32	AVG	200	168	
3	5175.252	80.08	2.07	82.15			peak	200	162	
4	5175.252	70.69	2.07	72.76			AVG	200	158	



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Site: 1# Chamber
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Fax:+86-0755-26503396

Job No.: star2017 #991

Polarization: Vertical

Standard: FCC PK

Power Source: DC 3.3V

Test item: Radiation Test

Date: 2018/01/23

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

Time: 8/53/35

EUT: WiFi module

Engineer Signature: star

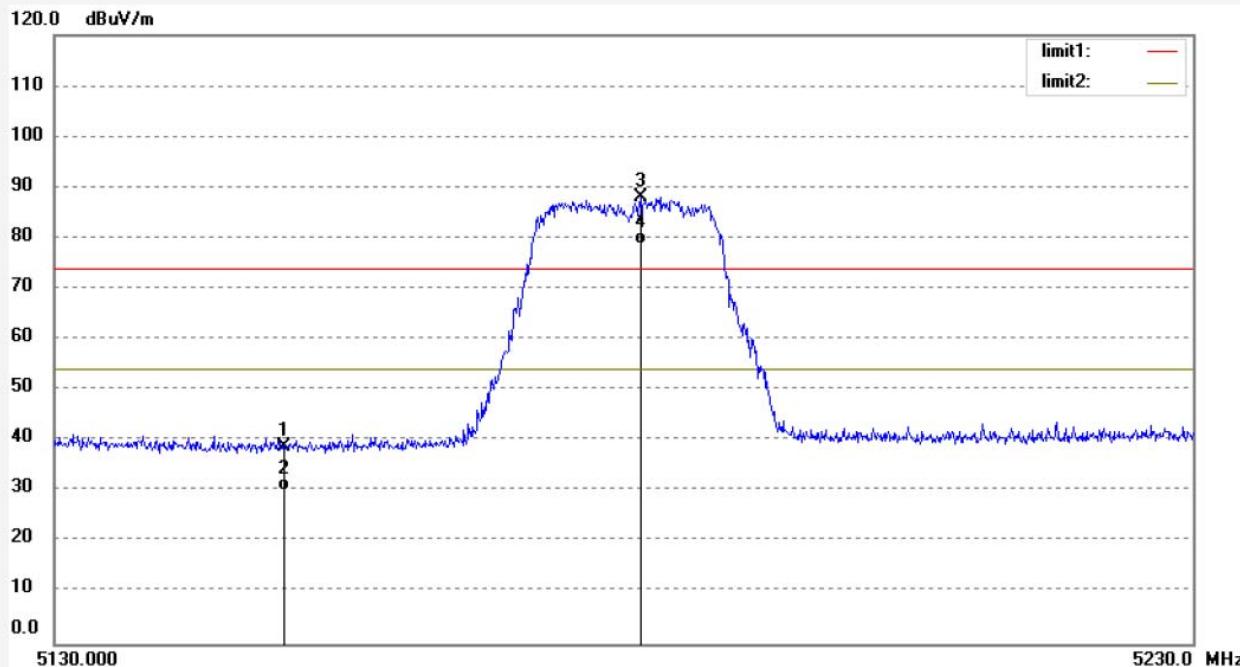
Mode: TX Channel 36-A

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	5150.000	36.72	2.04	38.76	74.00	-35.24	peak	150	222	
2	5150.000	28.00	2.04	30.04	54.00	-23.96	AVG	150	241	
3	5181.262	85.94	2.07	88.01			peak	150	287	
4	5181.262	76.59	2.07	78.66			AVG	150	198	



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Site: 1# Chamber
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Fax:+86-0755-26503396

Job No.: star2017 #993

Polarization: Horizontal

Standard: FCC PK

Power Source: DC 3.3V

Test item: Radiation Test

Date: 2018/01/23

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

Time: 8/56/54

EUT: WiFi module

Engineer Signature: star

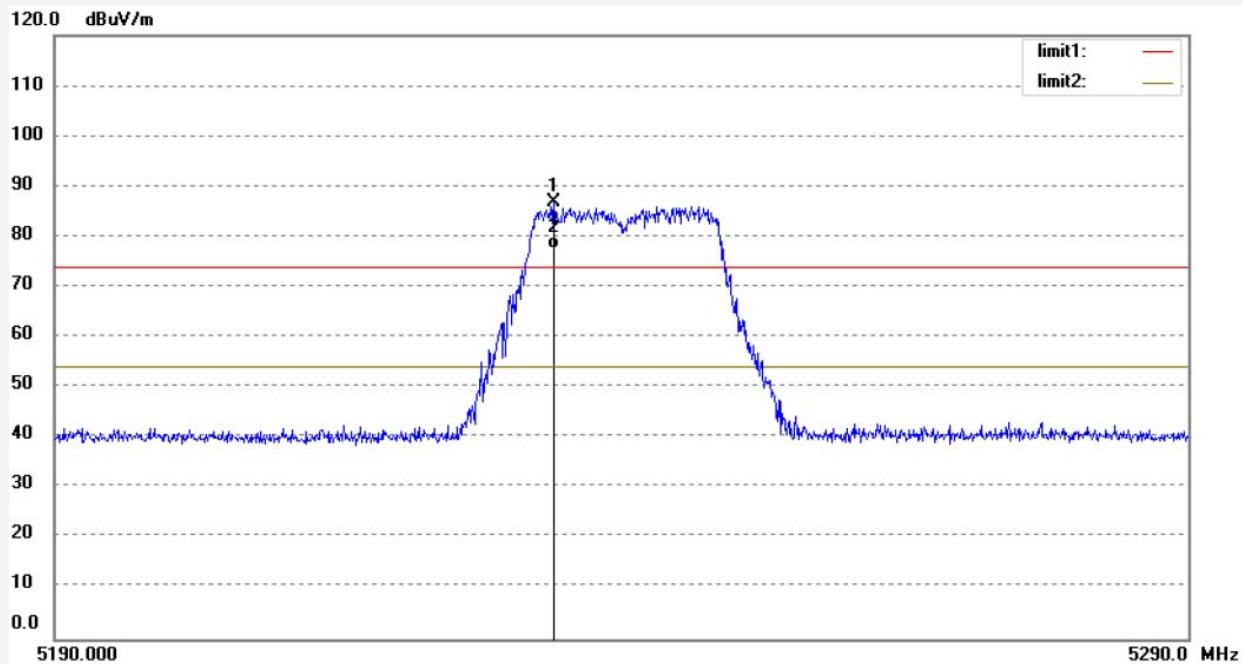
Mode: TX Channel 48-A

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	5233.853	84.64	2.14	86.78			peak	200	171	
2	5233.853	75.56	2.14	77.70			AVG	200	197	



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Site: 1# Chamber
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Fax:+86-0755-26503396

Job No.: star2017 #992

Polarization: Vertical

Standard: FCC PK

Power Source: DC 3.3V

Test item: Radiation Test

Date: 2018/01/23

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

Time: 8/56/07

EUT: WiFi module

Engineer Signature: star

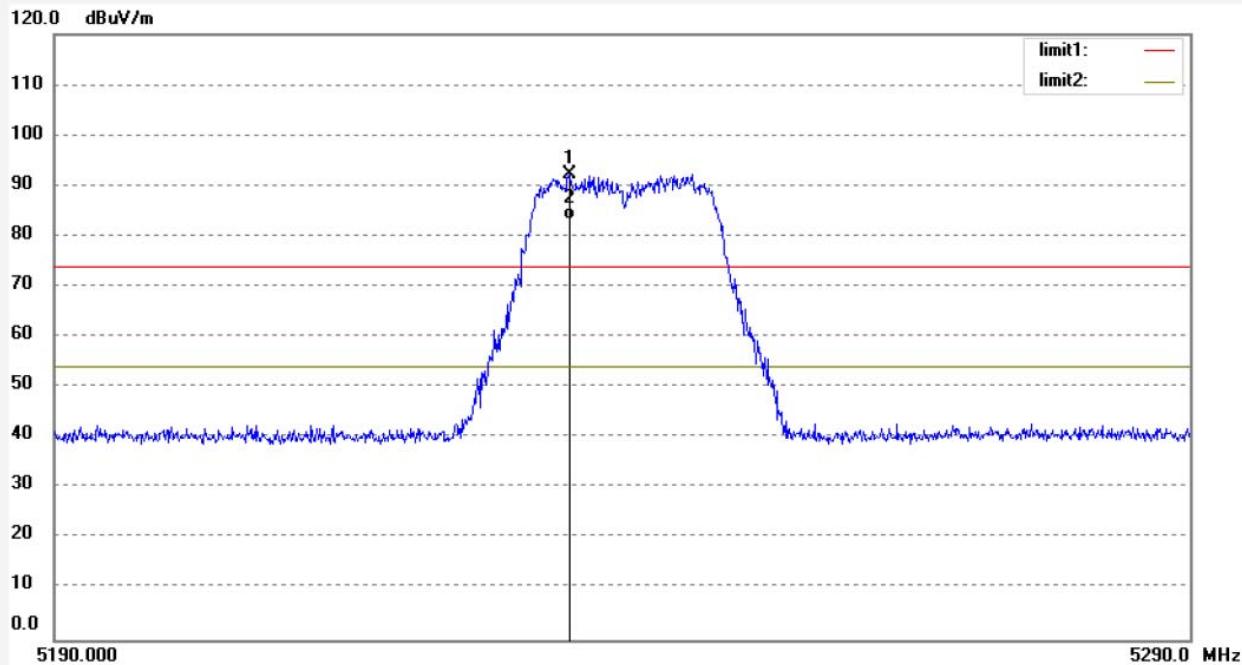
Mode: TX Channel 48-A

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	5235.154	90.20	2.14	92.34			peak	150	74	
2	5235.154	81.17	2.14	83.31			Avg	150	125	



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Site: 1# Chamber
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Fax:+86-0755-26503396

Job No.: star2017 #994

Polarization: Horizontal

Standard: FCC PK

Power Source: DC 3.3V

Test item: Radiation Test

Date: 2018/01/23

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

Time: 8/58/53

EUT: WiFi module

Engineer Signature: star

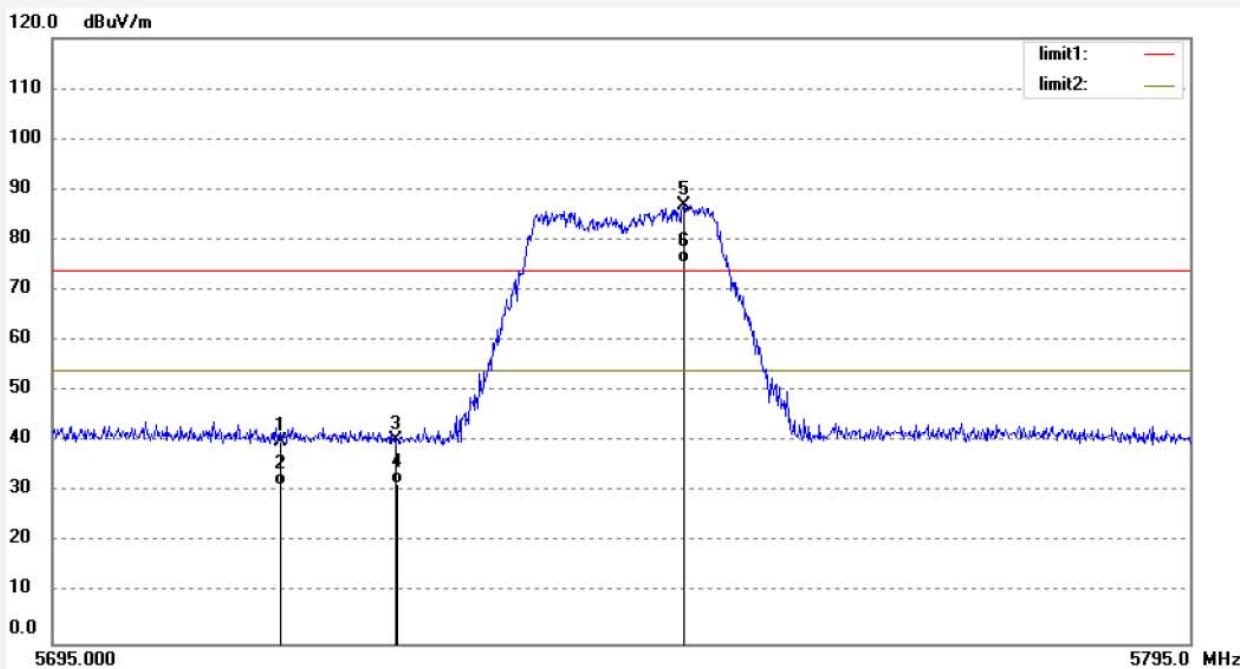
Mode: TX Channel 149-A

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	5715.000	37.42	2.74	40.16	74.00	-33.84	peak	200	241	
2	5715.000	28.57	2.74	31.31	54.00	-22.69	AVG	200	234	
3	5725.000	37.71	2.75	40.46	74.00	-33.54	peak	200	198	
4	5725.000	29.05	2.75	31.80	54.00	-22.20	AVG	200	98	
5	5750.296	83.98	2.79	86.77			peak	200	167	
6	5750.296	72.69	2.79	75.48			AVG	200	177	

Job No.: star2017 #995

Polarization: Vertical

Standard: FCC PK

Power Source: DC 3.3V

Test item: Radiation Test

Date: 2018/01/23

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

Time: 8/59/38

EUT: WiFi module

Engineer Signature: star

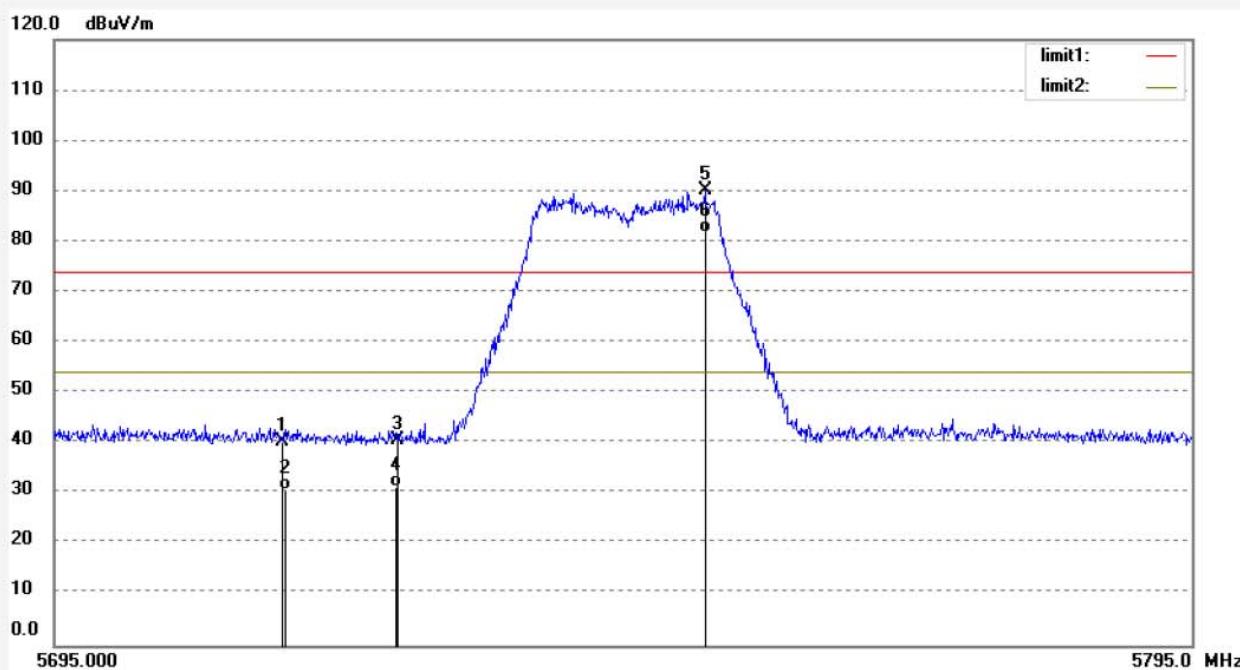
Mode: TX Channel 149-A

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	5715.000	37.71	2.74	40.45	74.00	-33.55	peak	150	158	
2	5715.000	28.14	2.74	30.88	54.00	-23.12	AVG	150	167	
3	5725.000	37.90	2.75	40.65	74.00	-33.35	peak	150	180	
4	5725.000	28.63	2.75	31.38	54.00	-22.62	AVG	150	162	
5	5752.001	87.27	2.79	90.06			peak	150	164	
6	5752.001	78.95	2.79	81.74			AVG	150	78	



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Site: 1# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: star2017 #997

Polarization: Horizontal

Standard: FCC PK

Power Source: DC 3.3V

Test item: Radiation Test

Date: 2018/01/23

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

Time: 9/02/50

EUT: WiFi module

Engineer Signature: star

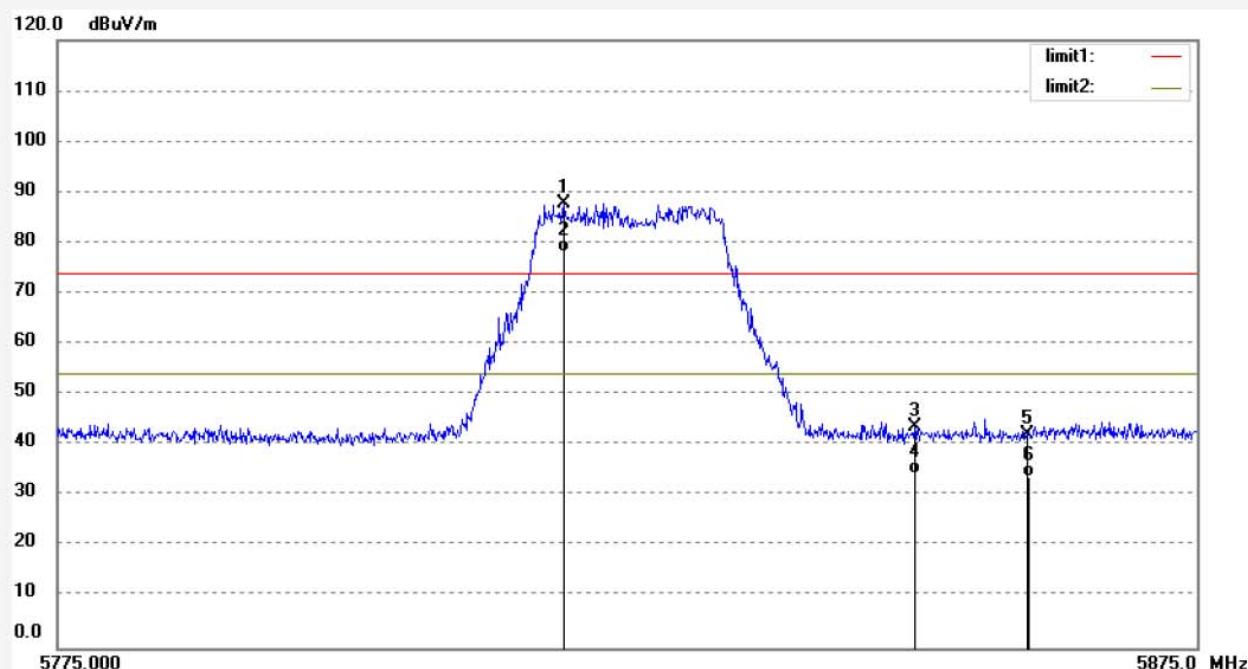
Mode: TX Channel 165-A

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	5819.277	84.99	2.89	87.88			peak	200	49	
2	5819.277	75.36	2.89	78.25			AVG	200	355	
3	5850.000	40.72	2.93	43.65	74.00	-30.35	peak	200	254	
4	5850.000	31.27	2.93	34.20	54.00	-19.80	AVG	200	135	
5	5860.000	39.19	2.95	42.14	74.00	-31.86	peak	200	114	
6	5860.000	30.88	2.95	33.83	54.00	-20.17	AVG	200	68	

Job No.: star2017 #996

Polarization: Vertical

Standard: FCC PK

Power Source: DC 3.3V

Test item: Radiation Test

Date: 2018/01/23

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

Time: 9/01/50

EUT: WiFi module

Engineer Signature: star

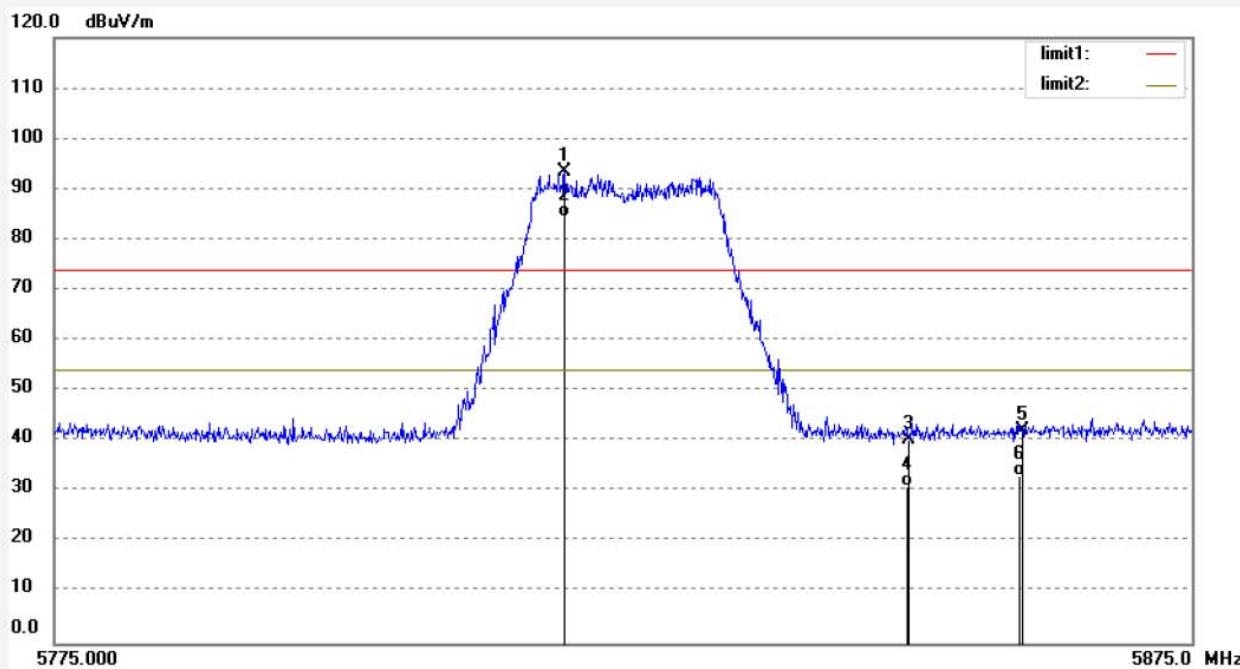
Mode: TX Channel 165-A

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	5819.677	90.56	2.89	93.45			peak	150	97	
2	5819.677	81.65	2.89	84.54			Avg	150	137	
3	5850.000	37.36	2.93	40.29	74.00	-33.71	peak	150	127	
4	5850.000	28.14	2.93	31.07	54.00	-22.93	Avg	150	119	
5	5860.000	39.28	2.95	42.23	74.00	-31.77	peak	150	108	
6	5860.000	30.29	2.95	33.24	54.00	-20.76	Avg	150	97	

Test mode: 802.11n20

TX Frequency: 5180MHz, 5240MHz, 5745MHz, 5825MHz

The EUT is tested Radiated Band Edge at each test mode 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



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Job No.: star2017 #998

Polarization: Horizontal

Standard: FCC PK

Power Source: DC 3.3V

Test item: Radiation Test

Date: 2018/01/23

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

Time: 9/05/40

EUT: WiFi module

Engineer Signature: star

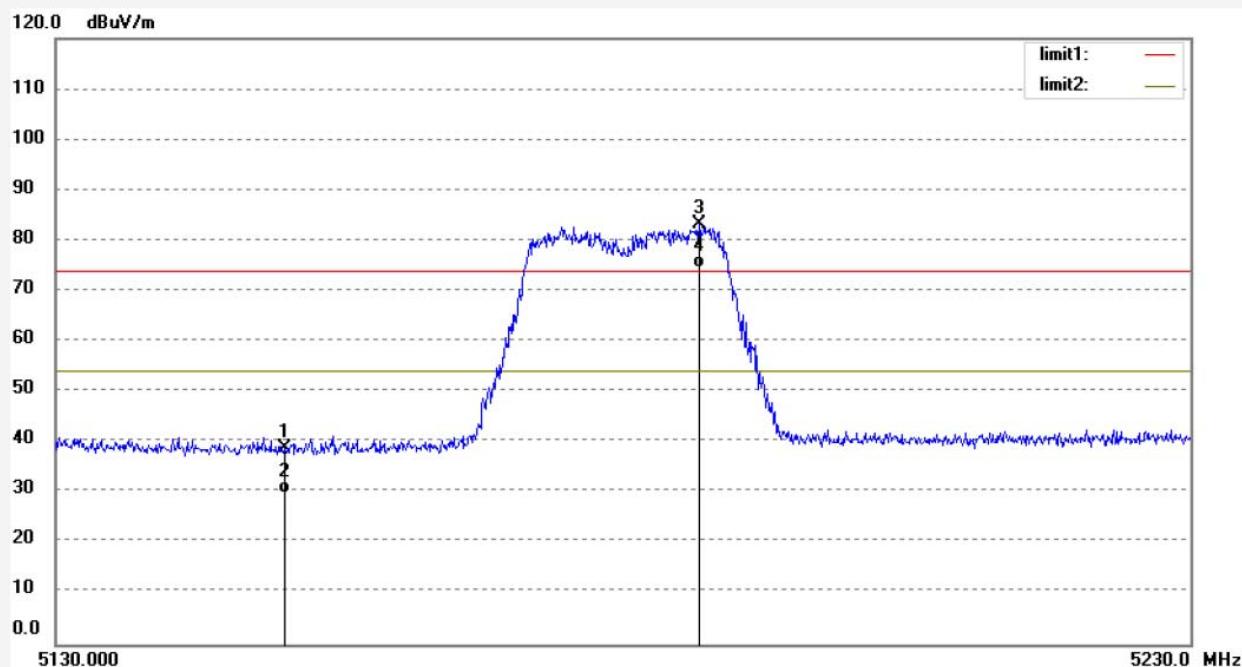
Mode: TX Channel 36-N 20MHz

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	5150.000	36.69	2.04	38.73	74.00	-35.27	peak	200	69	
2	5150.000	27.69	2.04	29.73	54.00	-24.27	AVG	200	256	
3	5186.476	81.24	2.08	83.32			peak	200	47	
4	5186.476	72.36	2.08	74.44			AVG	200	177	



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Job No.: star2017 #999

Polarization: Vertical

Standard: FCC PK

Power Source: DC 3.3V

Test item: Radiation Test

Date: 2018/01/23

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

Time: 9/06/28

EUT: WiFi module

Engineer Signature: star

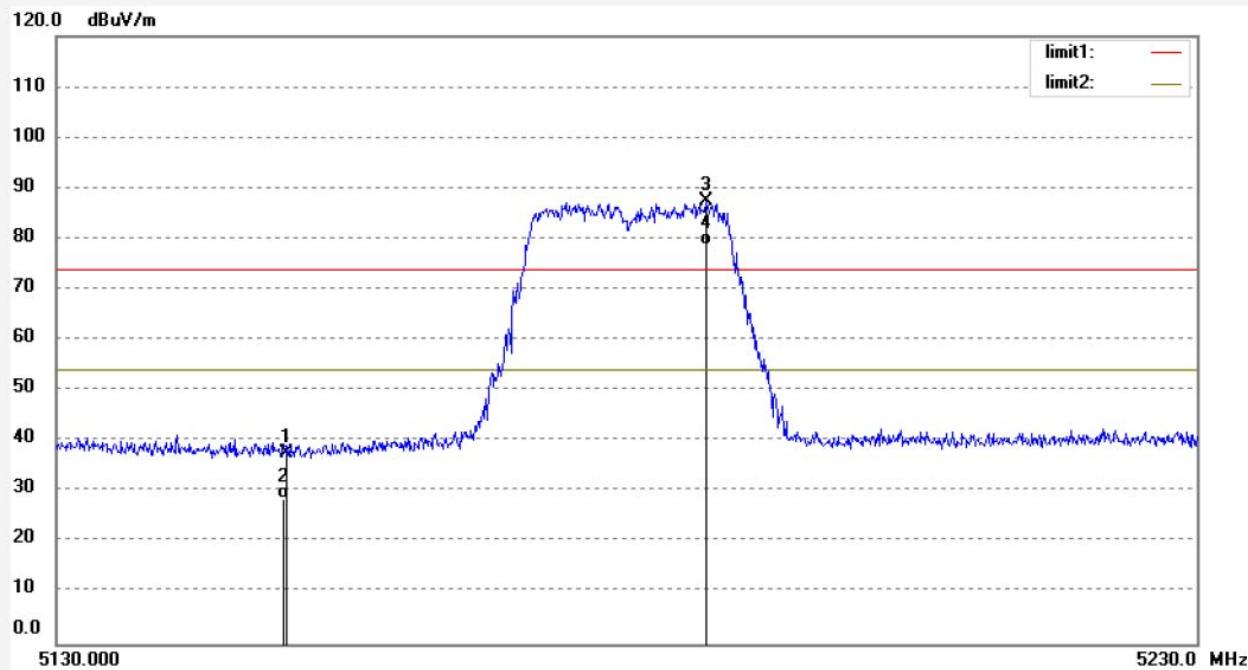
Mode: TX Channel 36-N 20MHz

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	5150.000	35.72	2.04	37.76	74.00	-36.24	peak	150	87	
2	5150.000	26.74	2.04	28.78	54.00	-25.22	AVG	150	141	
3	5186.777	85.25	2.08	87.33			peak	150	166	
4	5186.777	76.53	2.08	78.61			AVG	150	158	



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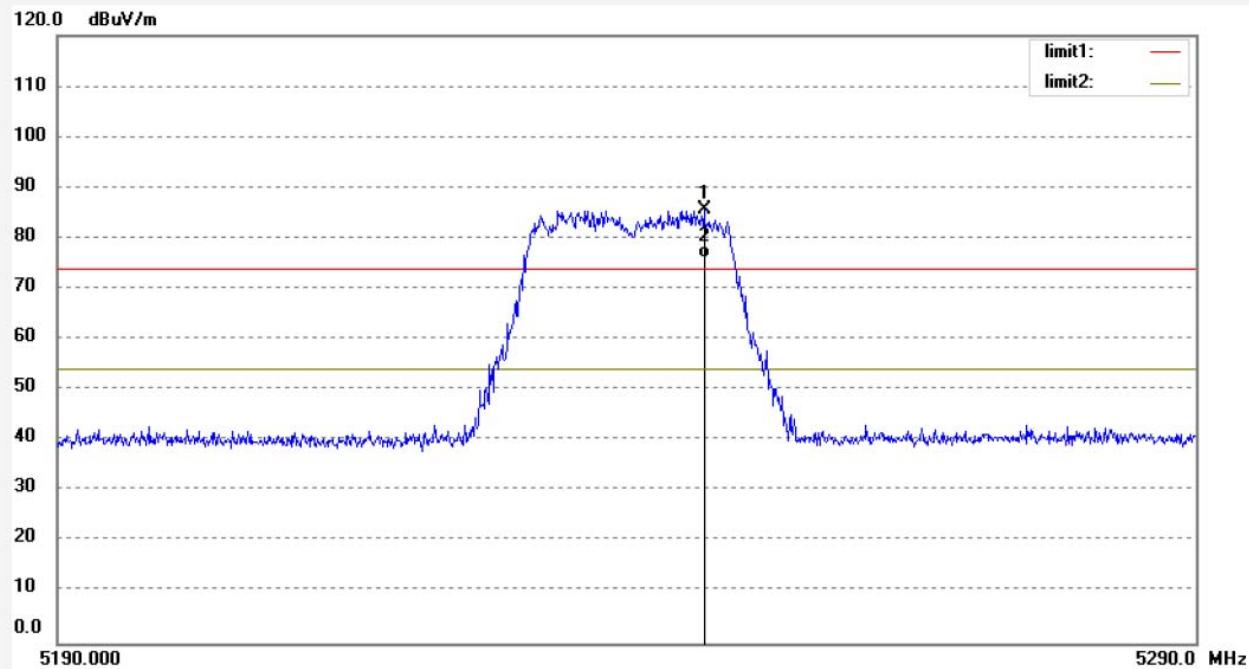
F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
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Site: 1# Chamber
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Job No.: star2017 #1001
Standard: FCC PK
Test item: Radiation Test
Temp.(C)/Hum.(%) 25 C / 55 %
EUT: WiFi module
Mode: TX Channel 48-N 20MHz
Model: M632USA1
Manufacturer: Xiamen Prima Technology Inc.

Polarization: Horizontal
Power Source: DC 3.3V
Date: 2018/01/23
Time: 9/08/45
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	5246.579	83.59	2.16	85.75			peak	200	46	
2	5246.579	73.90	2.16	76.06			AVG	200	29	



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Job No.: star2017 #1000

Polarization: Vertical

Standard: FCC PK

Power Source: DC 3.3V

Test item: Radiation Test

Date: 2018/01/23

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

Time: 9/08/03

EUT: WiFi module

Engineer Signature: star

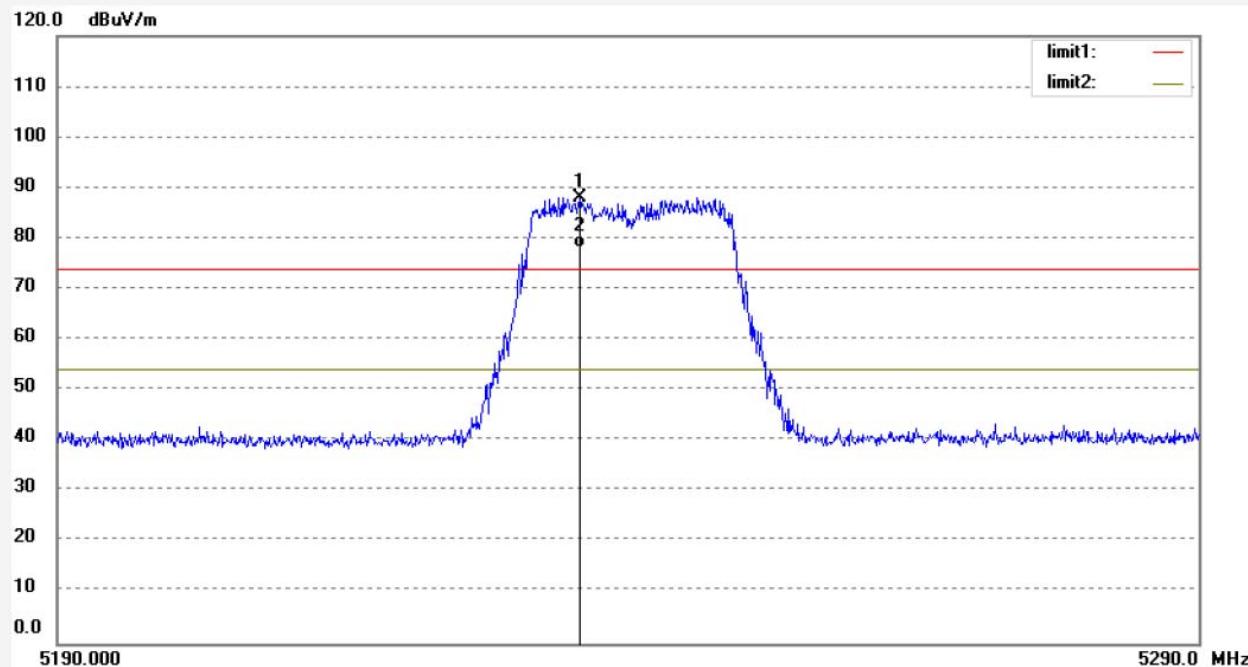
Mode: TX Channel 48-N 20MHz

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	5235.555	85.87	2.14	88.01			peak	150	132	
2	5235.555	76.11	2.14	78.25			AVG	150	98	



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Job No.: star2017 #1002

Polarization: Horizontal

Standard: FCC PK

Power Source: DC 3.3V

Test item: Radiation Test

Date: 2018/01/23

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

Time: 9/09/52

EUT: WiFi module

Engineer Signature: star

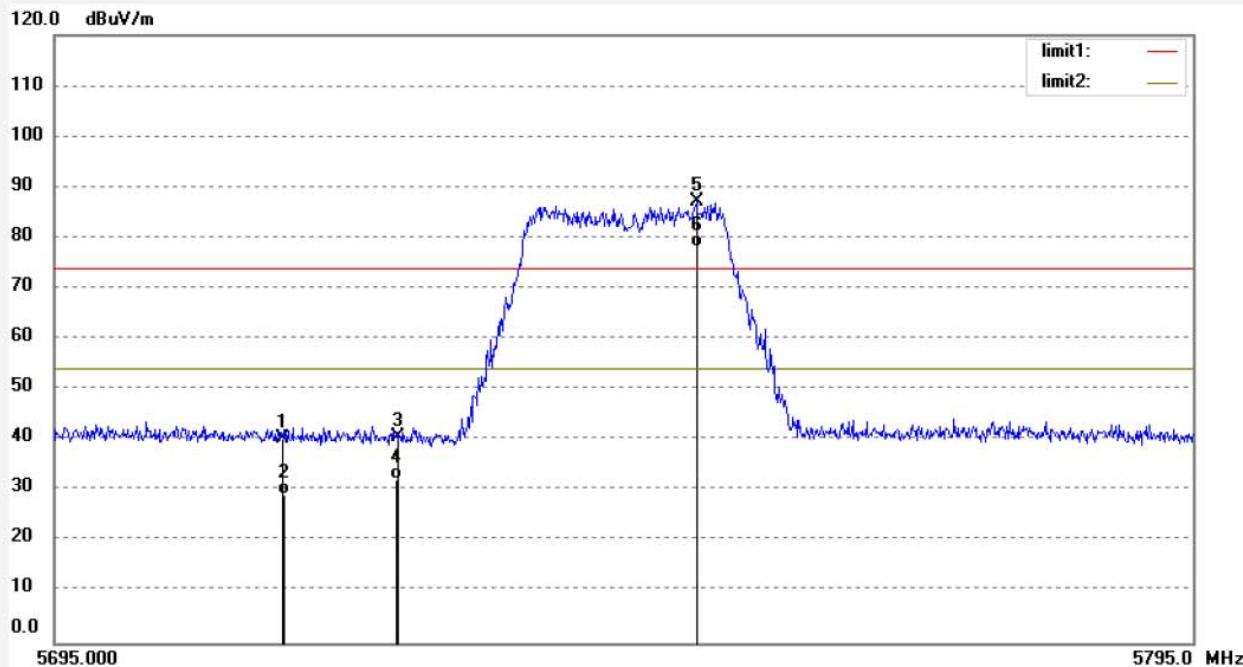
Mode: TX Channel 149-N 20MHz

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	5715.000	37.63	2.74	40.37	74.00	-33.63	peak	200	179	
2	5715.000	26.47	2.74	29.21	54.00	-24.79	AVG	200	266	
3	5725.000	38.01	2.75	40.76	74.00	-33.24	peak	200	264	
4	5725.000	29.53	2.75	32.28	54.00	-21.72	AVG	200	198	
5	5751.199	84.23	2.79	87.02			peak	200	287	
6	5751.199	75.28	2.79	78.07			AVG	200	345	



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Job No.: star2017 #1003

Polarization: Vertical

Standard: FCC PK

Power Source: DC 3.3V

Test item: Radiation Test

Date: 2018/01/23

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

Time: 9/10/45

EUT: WiFi module

Engineer Signature: star

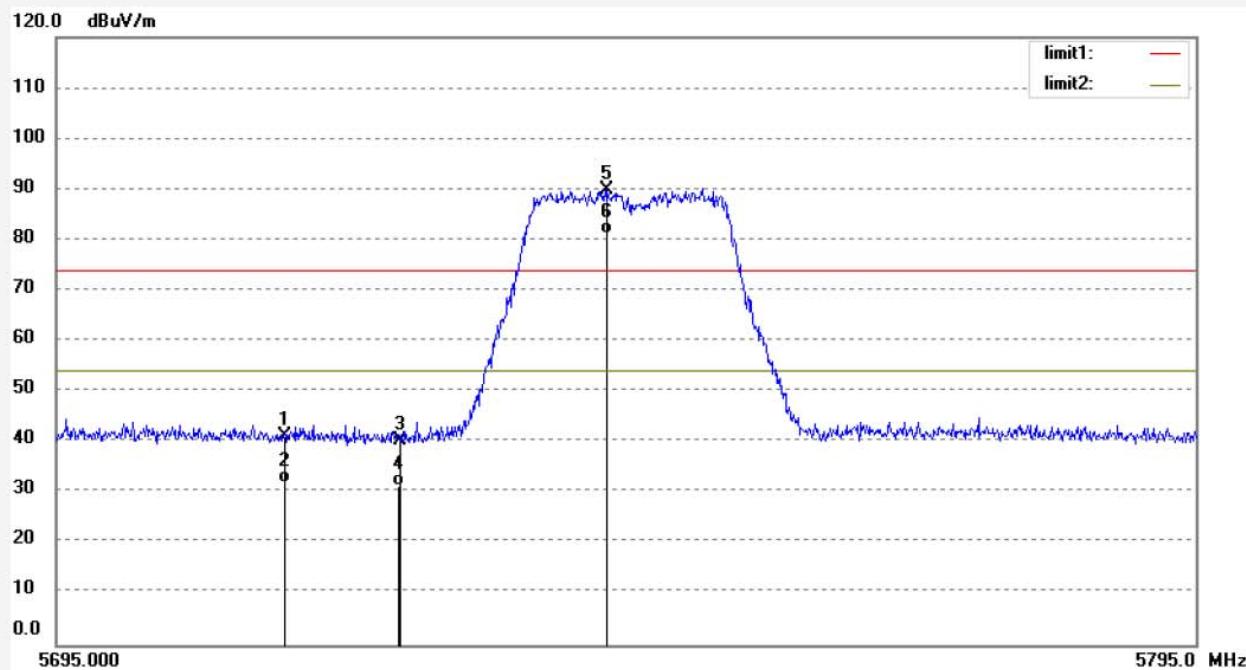
Mode: TX Channel 149-N 20MHz

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	5715.000	38.62	2.74	41.36	74.00	-32.64	peak	150	249	
2	5715.000	29.31	2.74	32.05	54.00	-21.95	AVG	150	162	
3	5725.000	37.63	2.75	40.38	74.00	-33.62	peak	150	177	
4	5725.000	28.56	2.75	31.31	54.00	-22.69	AVG	150	107	
5	5743.180	87.16	2.78	89.94			peak	150	97	
6	5743.180	78.44	2.78	81.22			AVG	150	47	



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Job No.: star2017 #1005

Polarization: Horizontal

Standard: FCC PK

Power Source: DC 3.3V

Test item: Radiation Test

Date: 2018/01/23

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

Time: 9/14/42

EUT: WiFi module

Engineer Signature: star

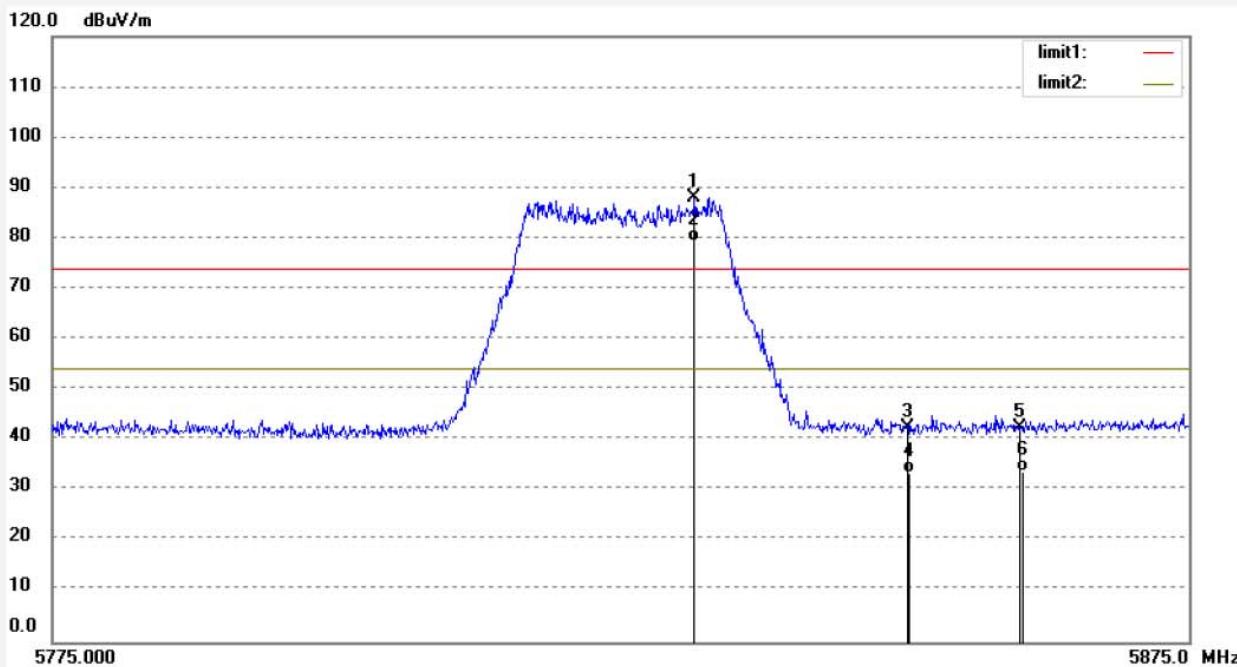
Mode: TX Channel 165-N 20MHz

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	5831.302	85.28	2.90	88.18			peak	200	187	
2	5831.302	76.58	2.90	79.48			AVG	200	304	
3	5850.000	39.44	2.93	42.37	74.00	-31.63	peak	200	247	
4	5850.000	30.57	2.93	33.50	54.00	-20.50	AVG	200	216	
5	5860.000	39.38	2.95	42.33	74.00	-31.67	peak	200	248	
6	5860.000	30.69	2.95	33.64	54.00	-20.36	AVG	200	117	



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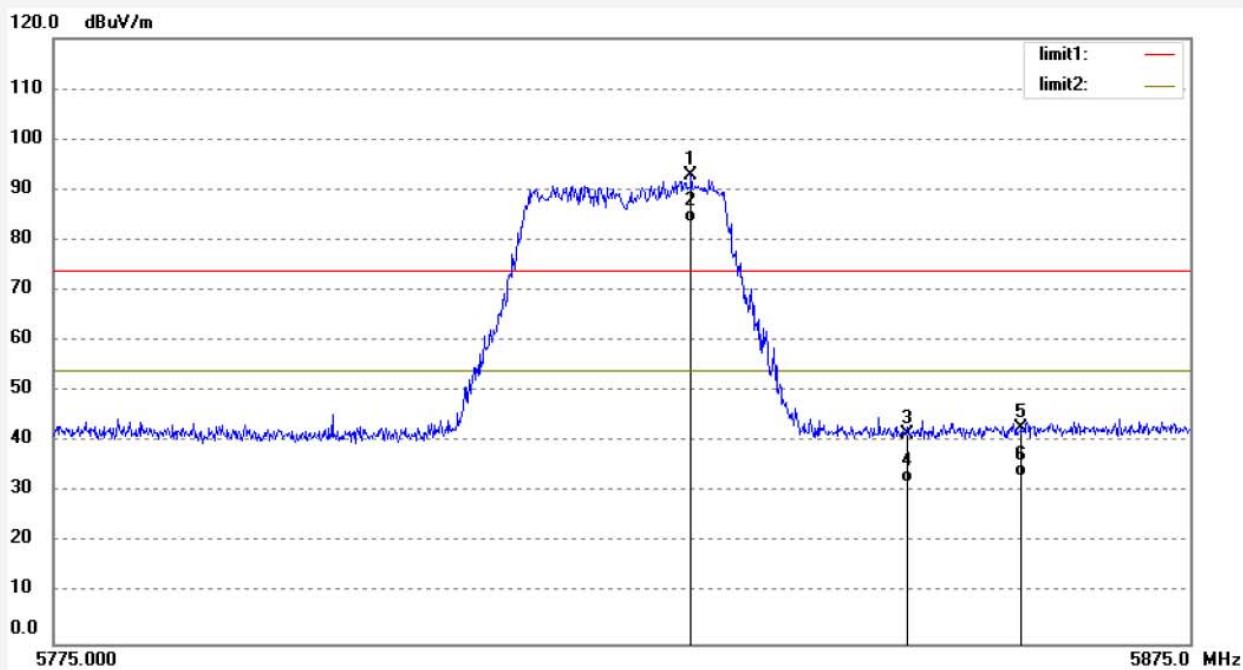
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Job No.: star2017 #1004
Standard: FCC PK
Test item: Radiation Test
Temp.(C)/Hum.(%) 25 C / 55 %
EUT: WiFi module
Mode: TX Channel 165-N 20MHz
Model: M632USA1
Manufacturer: Xiamen Prima Technology Inc.

Polarization: Vertical
Power Source: DC 3.3V
Date: 2018/01/23
Time: 9/13/08
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	5830.901	89.96	2.90	92.86			peak	150	335	
2	5830.901	80.57	2.90	83.47			AVG	150	247	
3	5850.000	38.70	2.93	41.63	74.00	-32.37	peak	150	188	
4	5850.000	29.00	2.93	31.93	54.00	-22.07	AVG	150	126	
5	5860.000	39.82	2.95	42.77	74.00	-31.23	peak	150	124	
6	5860.000	30.17	2.95	33.12	54.00	-20.88	AVG	150	77	