



ACCURATE TECHNOLOGY CO., LTD.

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.: STAR2015 #1912

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Household air conditioner overseas usb wifi module

Mode: TX Channel 1 (802.11n)

Model: MK-QTWIFI-03

Manufacturer: Rayson

Polarization: Horizontal

Power Source: DC 5V

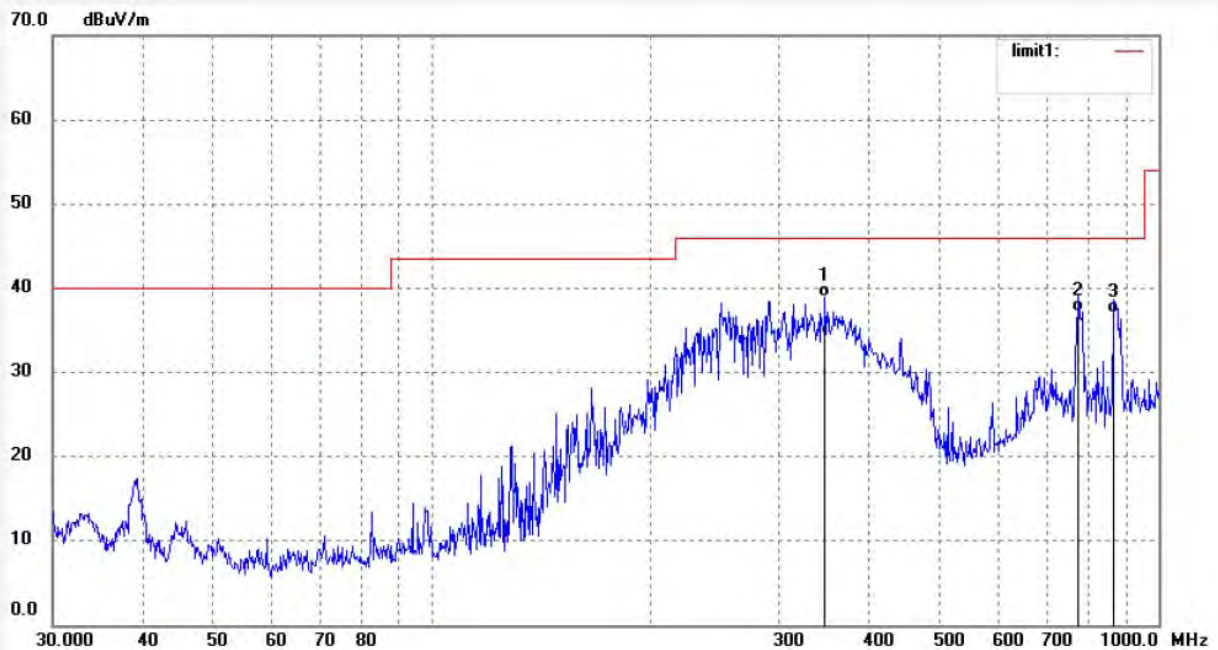
Date: 15/10/26/

Time: 8/59/50

Engineer Signature: star

Distance: 3m

Note: Report No.:ATE20152120



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	347.2921	53.58	-14.72	38.86	46.00	-7.14	QP			
2	776.4849	43.50	-6.30	37.20	46.00	-8.80	QP			
3	868.8858	41.68	-4.72	36.96	46.00	-9.04	QP			



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Site: 1# Chamber

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Job No.: STAR2015 #1913

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Household air conditioner overseas usb wifi moudule

Mode: TX Channel 1 (802.11n)

Model: MK-QTWIFI-03

Manufacturer: Rayson

Polarization: Vertical

Power Source: DC 5V

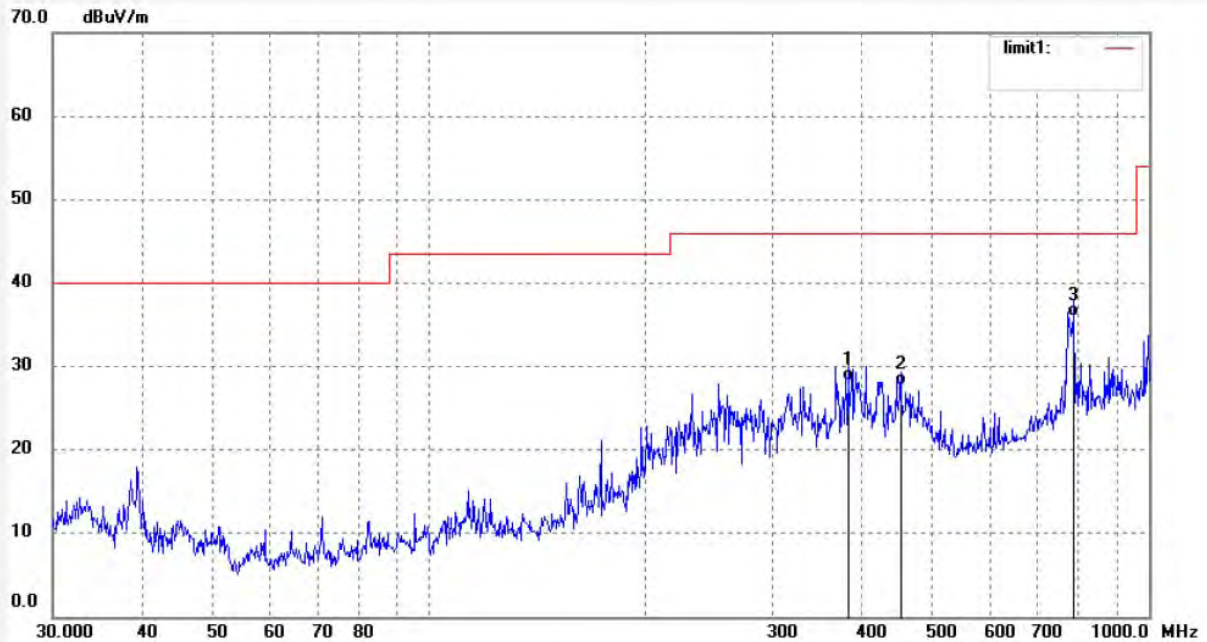
Date: 15/10/26/

Time: 9/01/27

Engineer Signature: star

Distance: 3m

Note: Report No.:ATE20152120



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	381.8519	42.35	-14.14	28.21	46.00	-17.79	QP			
2	452.0013	40.78	-12.96	27.82	46.00	-18.18	QP			
3	787.4749	42.00	-6.10	35.90	46.00	-10.10	QP			

Job No.: STAR2015 #1914

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Household air conditioner overseas usb wifi moudule

Mode: TX Channel 6 (802.11n)

Model: MK-QTWIFI-03

Manufacturer: Rayson

Polarization: Vertical

Power Source: DC 5V

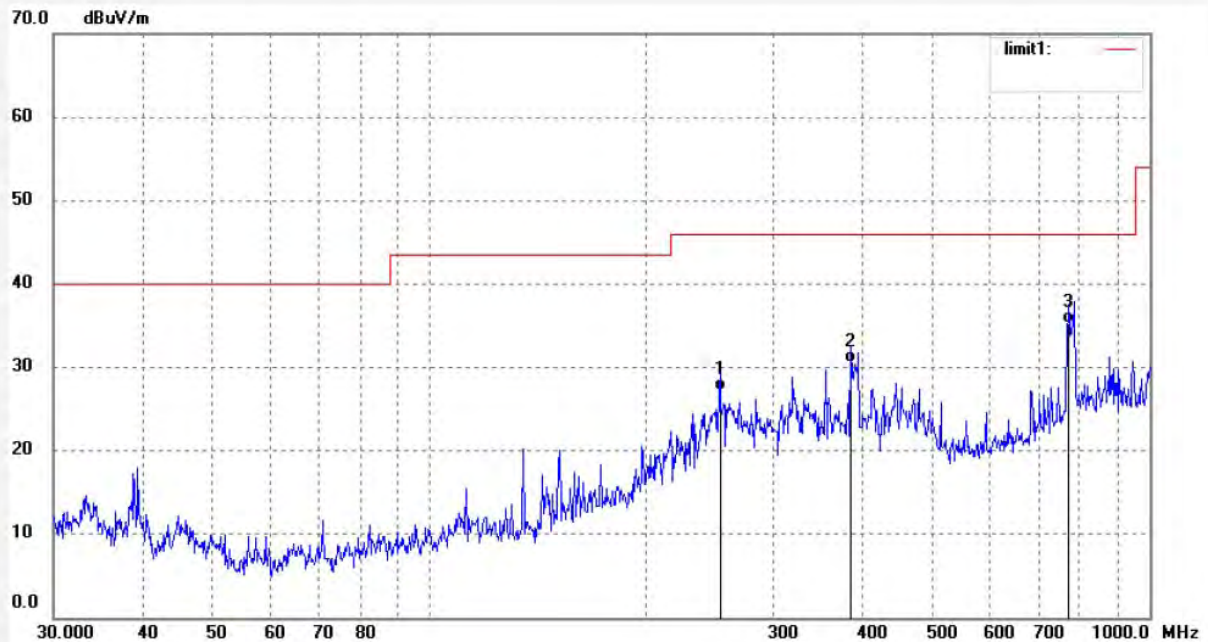
Date: 15/10/26/

Time: 9/02/03

Engineer Signature: star

Distance: 3m

Note: Report No.:ATE20152120



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	253.1401	45.28	-18.00	27.28	46.00	-18.72	QP			
2	384.5446	44.70	-14.13	30.57	46.00	-15.43	QP			
3	771.0475	41.65	-6.39	35.26	46.00	-10.74	QP			



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Site: 1# Chamber
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Job No.: STAR2015 #1915

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Household air conditioner overseas usb wifi moudule

Mode: TX Channel 6 (802.11n)

Model: MK-QTWIFI-03

Manufacturer: Rayson

Polarization: Horizontal

Power Source: DC 5V

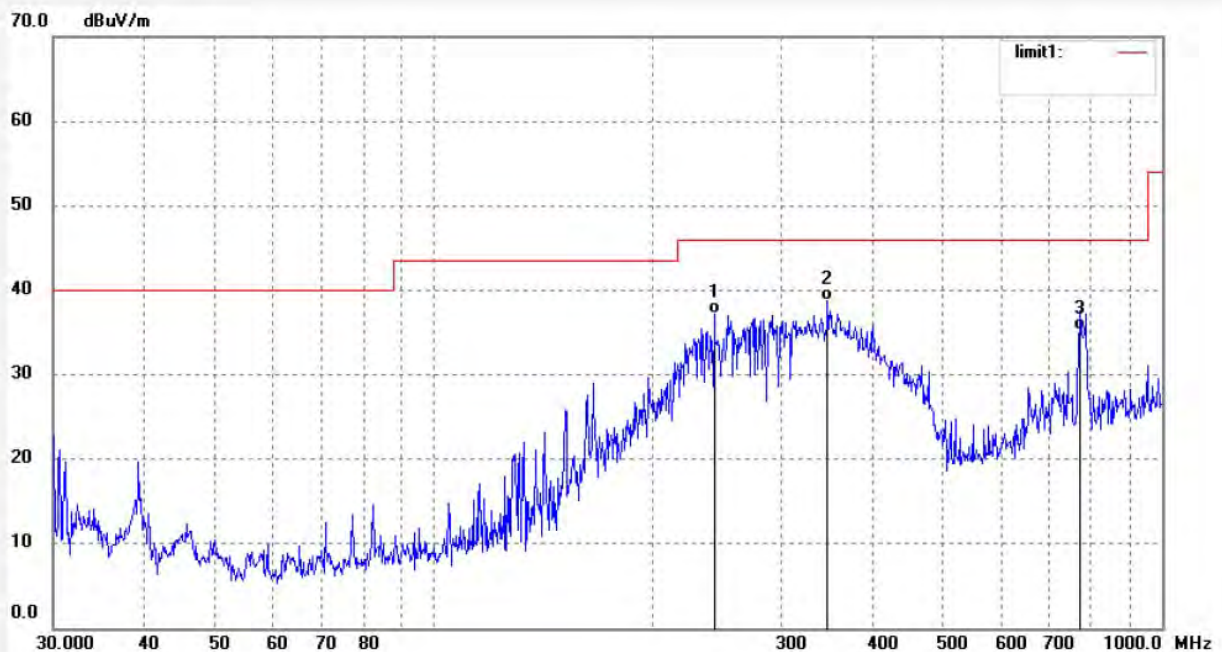
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Time: 9/02/57

Engineer Signature: star

Distance: 3m

Note: Report No.:ATE20152120



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	242.6888	55.41	-18.23	37.18	46.00	-8.82	QP			
2	347.2921	53.56	-14.72	38.84	46.00	-7.16	QP			
3	771.0475	41.59	-6.39	35.20	46.00	-10.80	QP			



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Site: 1# Chamber
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Job No.: STAR2015 #1916

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Household air conditioner overseas usb wifi moudule

Mode: TX Channel 11 (802.11n)

Model: MK-QTWIFI-03

Manufacturer: Rayson

Polarization: Horizontal

Power Source: DC 5V

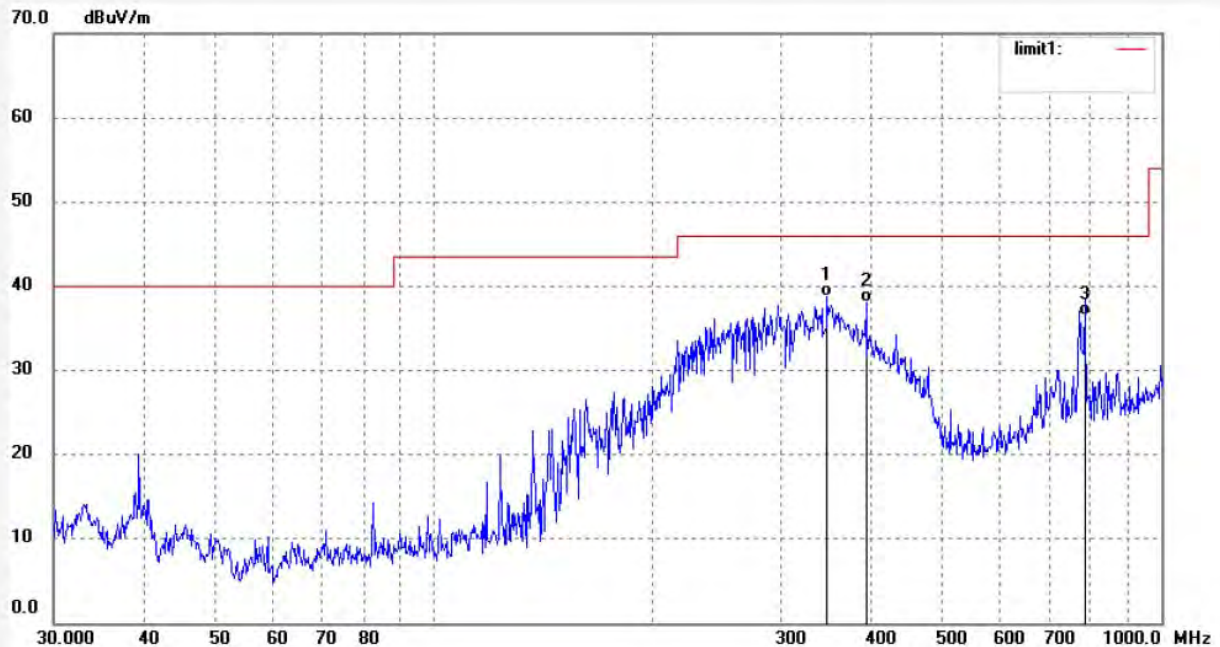
Date: 15/10/26/

Time: 9/03/40

Engineer Signature: star

Distance: 3m

Note: Report No.:ATE20152120



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	347.2921	53.44	-14.72	38.72	46.00	-7.28	QP			
2	392.7375	52.12	-14.05	38.07	46.00	-7.93	QP			
3	784.7128	42.67	-6.15	36.52	46.00	-9.48	QP			



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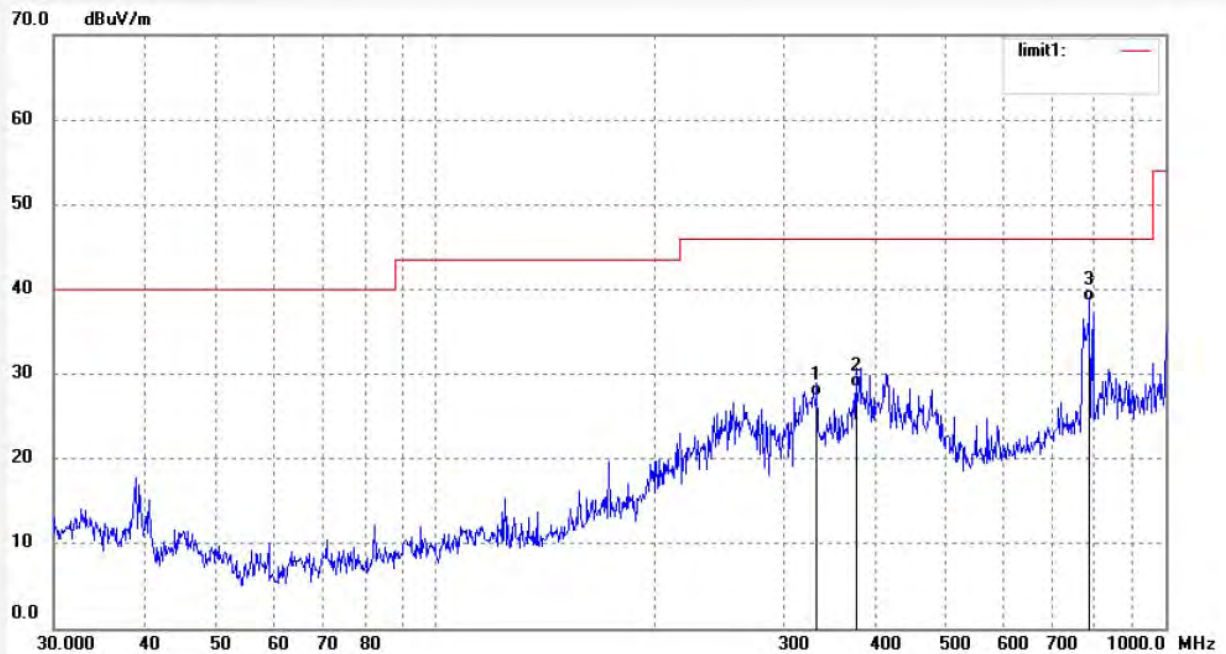
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Site: 1# Chamber
Tel:+86-0755-26503290
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Job No.: STAR2015 #1917
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 25 C / 55 %
EUT: Household air conditioner overseas usb wifi moudule
Mode: TX Channel 11 (802.11n)
Model: MK-QTWIFI-03
Manufacturer: Rayson

Polarization: Vertical
Power Source: DC 5V
Date: 15/10/26/
Time: 9/04/30
Engineer Signature: star
Distance: 3m

Note: Report No.:ATE20152120



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	332.9534	42.67	-15.22	27.45	46.00	-18.55	QP			
2	376.5227	42.55	-14.18	28.37	46.00	-17.63	QP			
3	787.4749	44.69	-6.10	38.59	46.00	-7.41	QP			

Job No.: STAR2015 #1918

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Household air conditioner overseas usb wifi moudule

Mode: TX Channel 3 (802.11n)40MHz

Model: MK-QTWIFI-03

Manufacturer: Rayson

Polarization: Vertical

Power Source: DC 5V

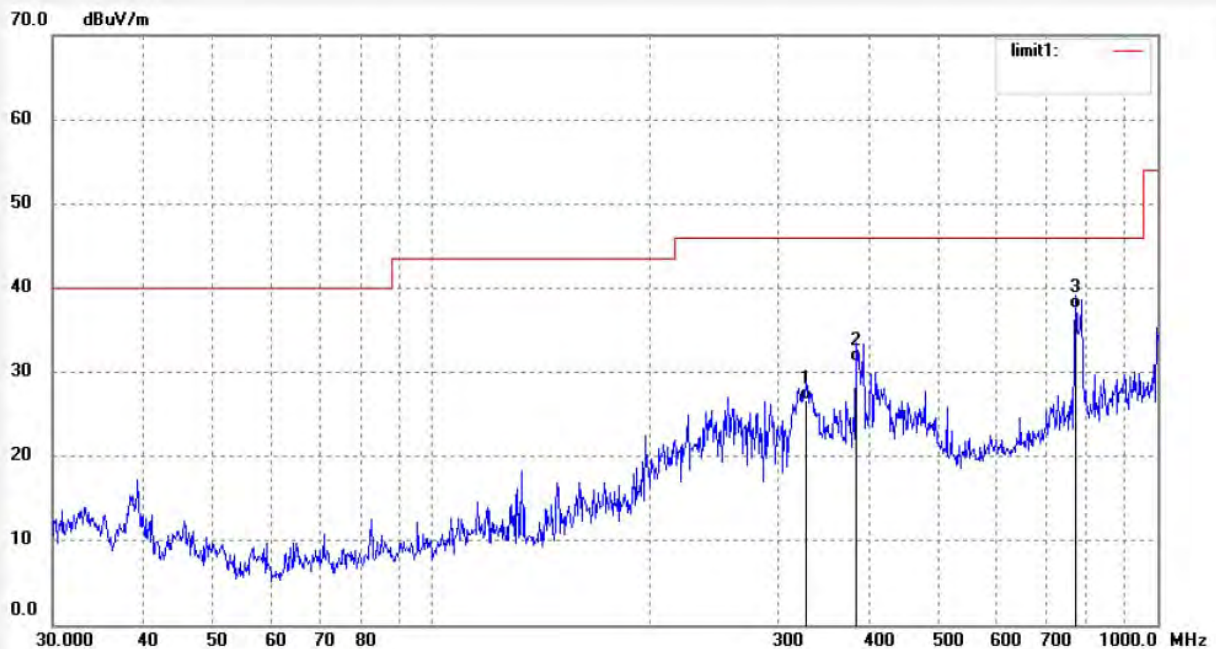
Date: 15/10/26/

Time: 9/05/20

Engineer Signature: star

Distance: 3m

Note: Report No.:ATE20152120



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	328.3068	42.20	-15.46	26.74	46.00	-19.26	QP			
2	384.5446	45.30	-14.13	31.17	46.00	-14.83	QP			
3	771.0475	43.97	-6.39	37.58	46.00	-8.42	QP			



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Job No.: STAR2015 #1919

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Household air conditioner overseas usb wifi moudule

Mode: TX Channel 3 (802.11n)40MHz

Model: MK-QTWIFI-03

Manufacturer: Rayson

Polarization: Horizontal

Power Source: DC 5V

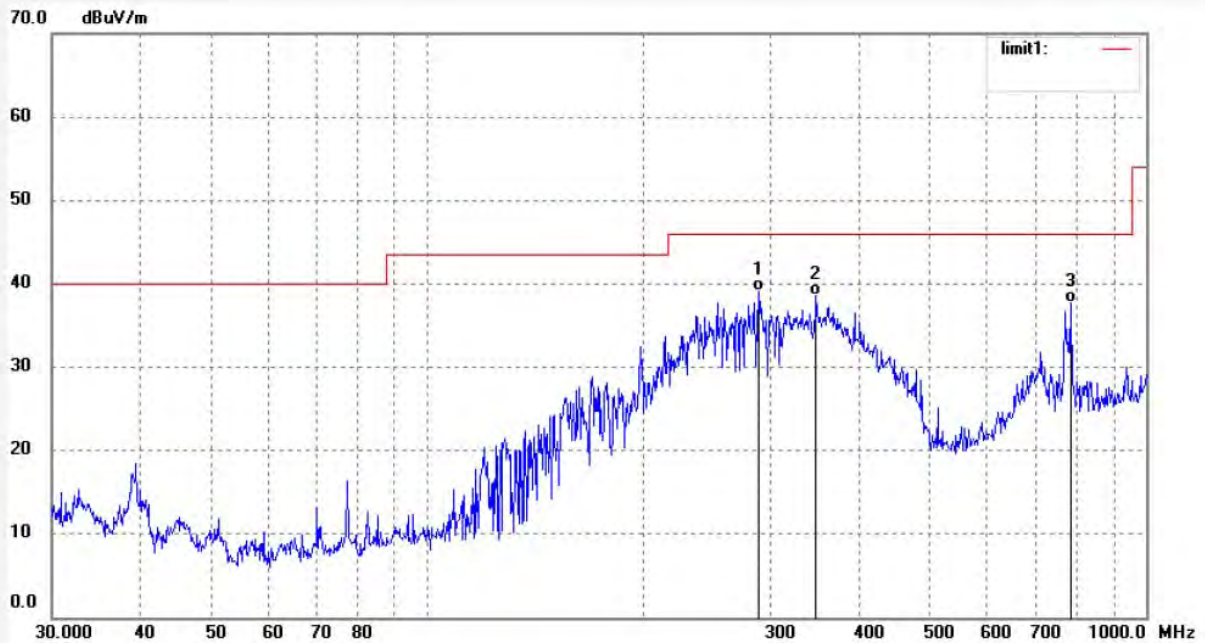
Date: 15/10/26/

Time: 9/08/12

Engineer Signature: star

Distance: 3m

Note: Report No.:ATE20152120



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	289.2986	55.64	-16.52	39.12	46.00	-6.88	QP			
2	347.2921	53.36	-14.72	38.64	46.00	-7.36	QP			
3	787.4749	43.84	-6.10	37.74	46.00	-8.26	QP			



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Job No.: STAR2015 #1920

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Household air conditioner overseas usb wifi moudule

Mode: TX Channel 6 (802.11n)40MHz

Model: MK-QTWIFI-03

Manufacturer: Rayson

Polarization: Horizontal

Power Source: DC 5V

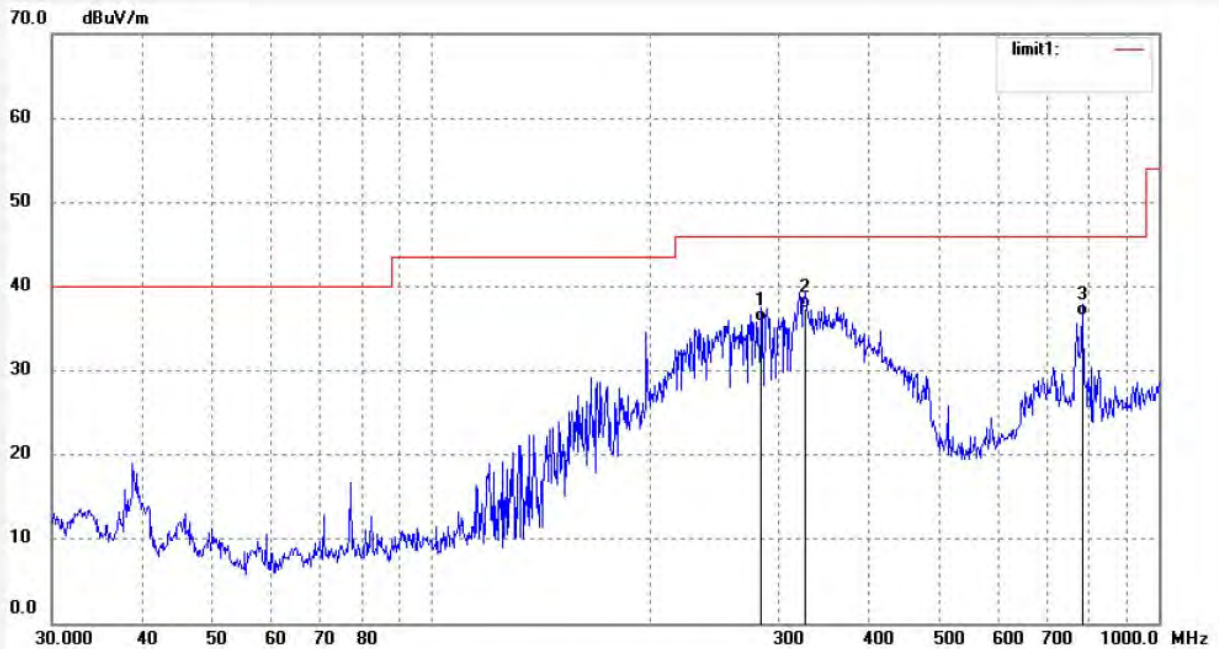
Date: 15/10/26/

Time: 9/10/05

Engineer Signature: star

Distance: 3m

Note: Report No.:ATE20152120



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	284.2606	52.34	-16.60	35.74	46.00	-10.26	QP			
2	326.0079	52.90	-15.55	37.35	46.00	-8.65	QP			
3	784.7128	42.66	-6.15	36.51	46.00	-9.49	QP			



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Job No.: STAR2015 #1921

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Household air conditioner overseas usb wifi moudule

Mode: TX Channel 6 (802.11n)40MHz

Model: MK-QTWIFI-03

Manufacturer: Rayson

Polarization: Vertical

Power Source: DC 5V

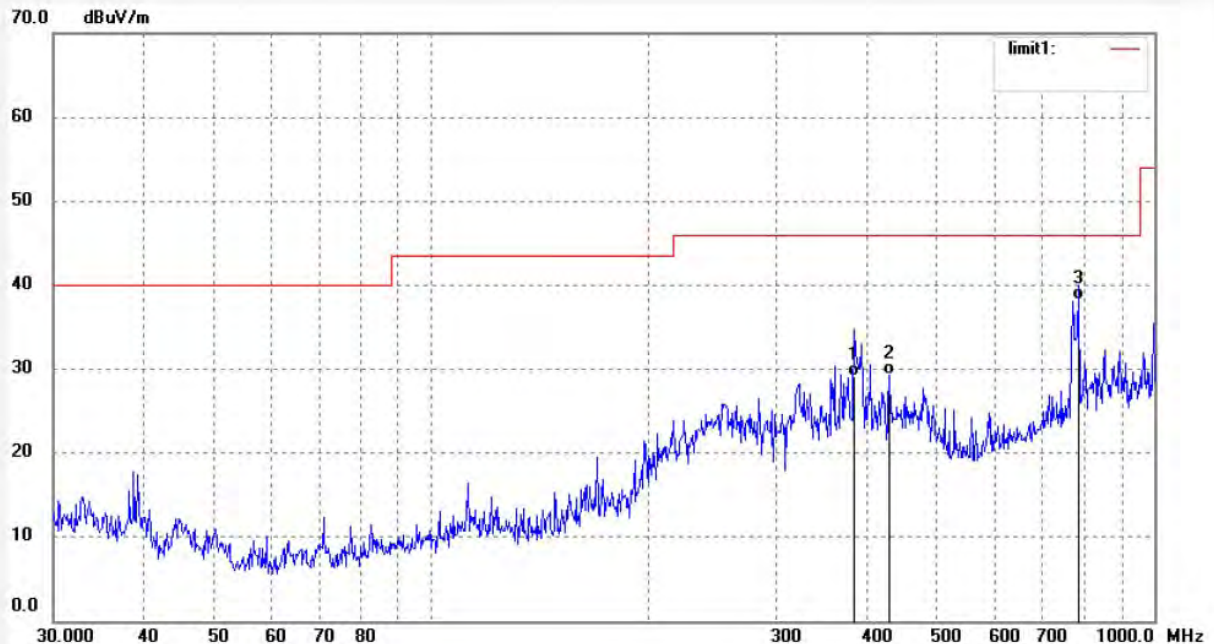
Date: 15/10/26/

Time: 9/11/07

Engineer Signature: star

Distance: 3m

Note: Report No.:ATE20152120



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	384.5446	43.25	-14.13	29.12	46.00	-16.88	QP			
2	430.3052	42.76	-13.51	29.25	46.00	-16.75	QP			
3	784.7128	44.38	-6.15	38.23	46.00	-7.77	QP			

Job No.: STAR2015 #1922

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Household air conditioner overseas usb wifi moudule

Mode: TX Channel 9 (802.11n)40MHz

Model: MK-QTWIFI-03

Manufacturer: Rayson

Polarization: Vertical

Power Source: DC 5V

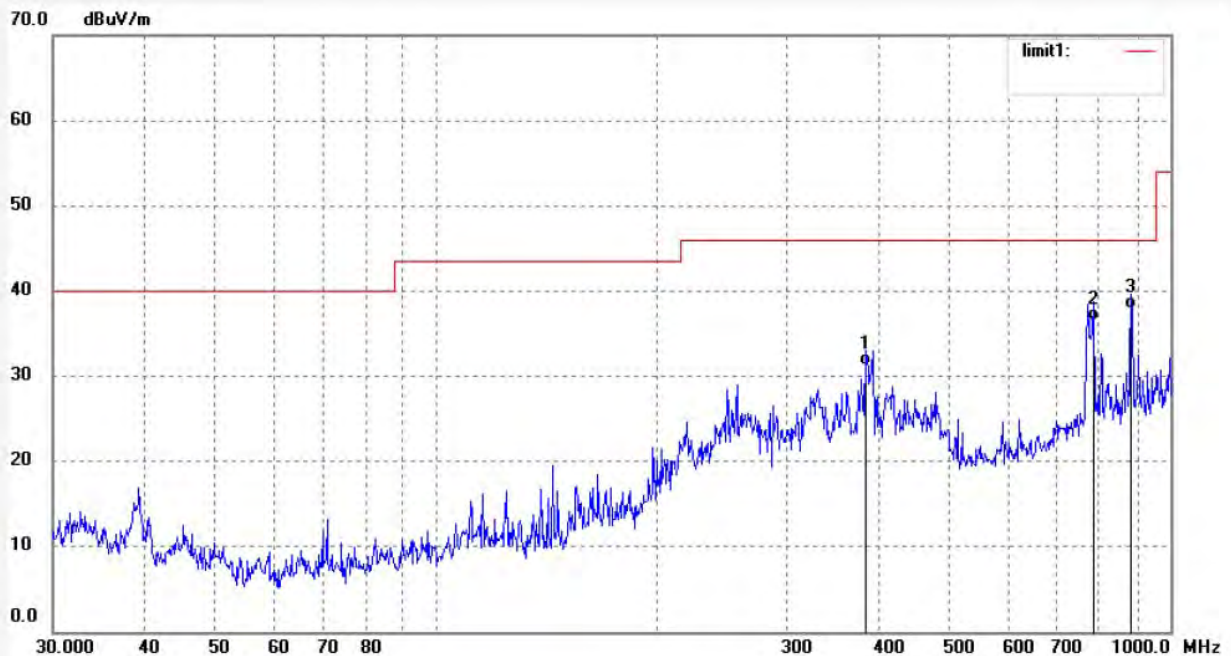
Date: 15/10/26/

Time: 9/11/57

Engineer Signature: star

Distance: 3m

Note: Report No.:ATE20152120



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	384.5447	45.39	-14.13	31.26	46.00	-14.74	QP			
2	784.7129	42.71	-6.15	36.56	46.00	-9.44	QP			
3	884.2853	42.38	-4.44	37.94	46.00	-8.06	QP			



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Site: 1# Chamber
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Job No.: STAR2015 #1923

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Household air conditioner overseas usb wifi moudule

Mode: TX Channel 9 (802.11n)40MHz

Model: MK-QTWIFI-03

Manufacturer: Rayson

Polarization: Horizontal

Power Source: DC 5V

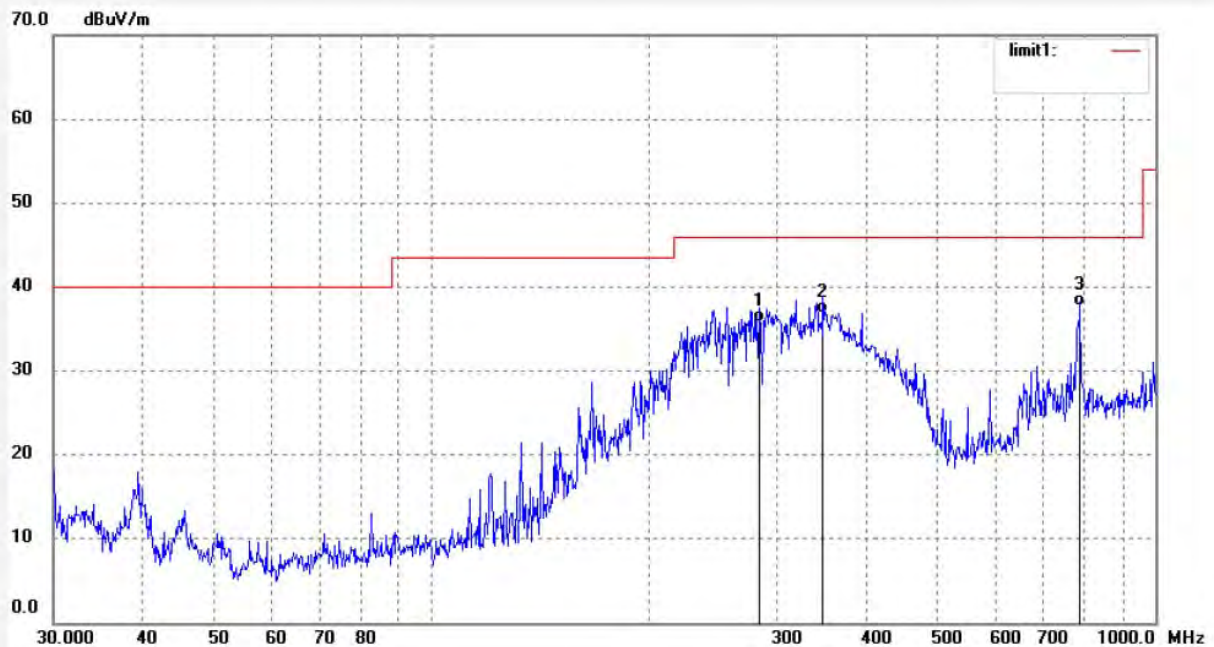
Date: 15/10/26/

Time: 9/12/41

Engineer Signature: star

Distance: 3m

Note: Report No.:ATE20152120



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	283.2636	52.37	-16.63	35.74	46.00	-10.26	QP			
2	347.2921	51.55	-14.72	36.83	46.00	-9.17	QP			
3	787.4749	43.76	-6.10	37.66	46.00	-8.34	QP			

Above 1G



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Site: 1# Chamber

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Job No.: STAR2015 #1876

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Household air conditioner overseas usb wifi moudule

Mode: TX Channel 1 (802.11b)

Model: MK-QTWIFI-03

Manufacturer: Rayson

Polarization: Vertical

Power Source: DC 5V

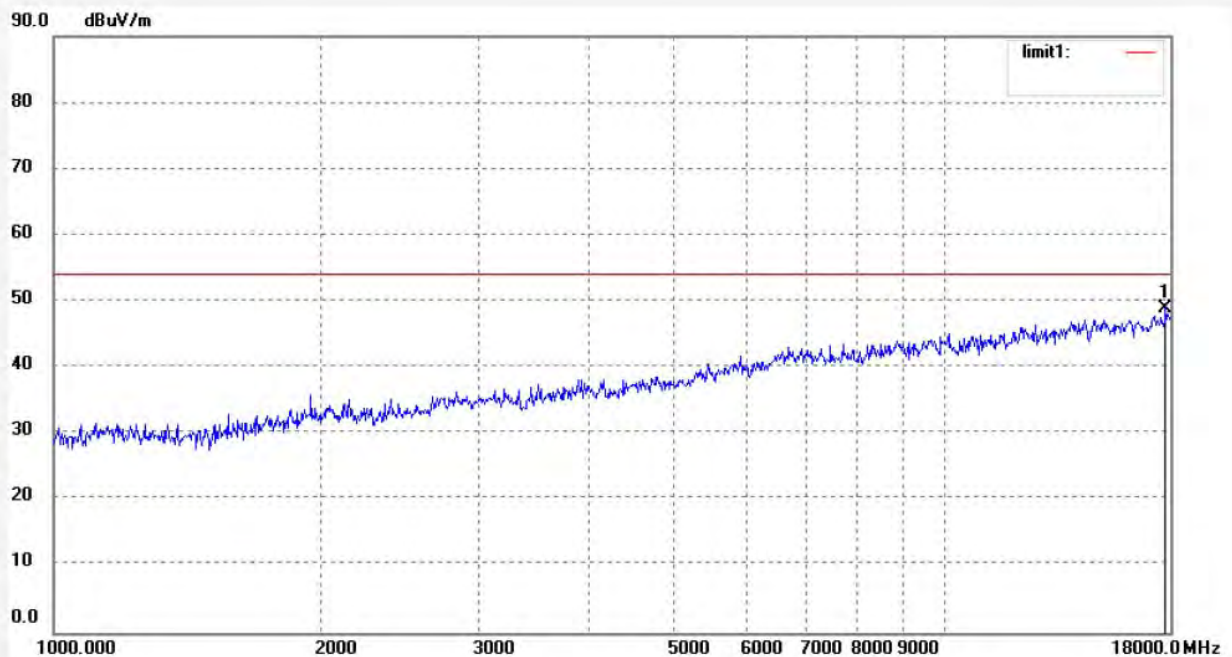
Date: 15/10/23/

Time: 16/14/50

Engineer Signature: star

Distance: 3m

Note: Report No.:ATE20152120



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	17791.642	30.38	18.53	48.91	54.00	-5.09	peak			



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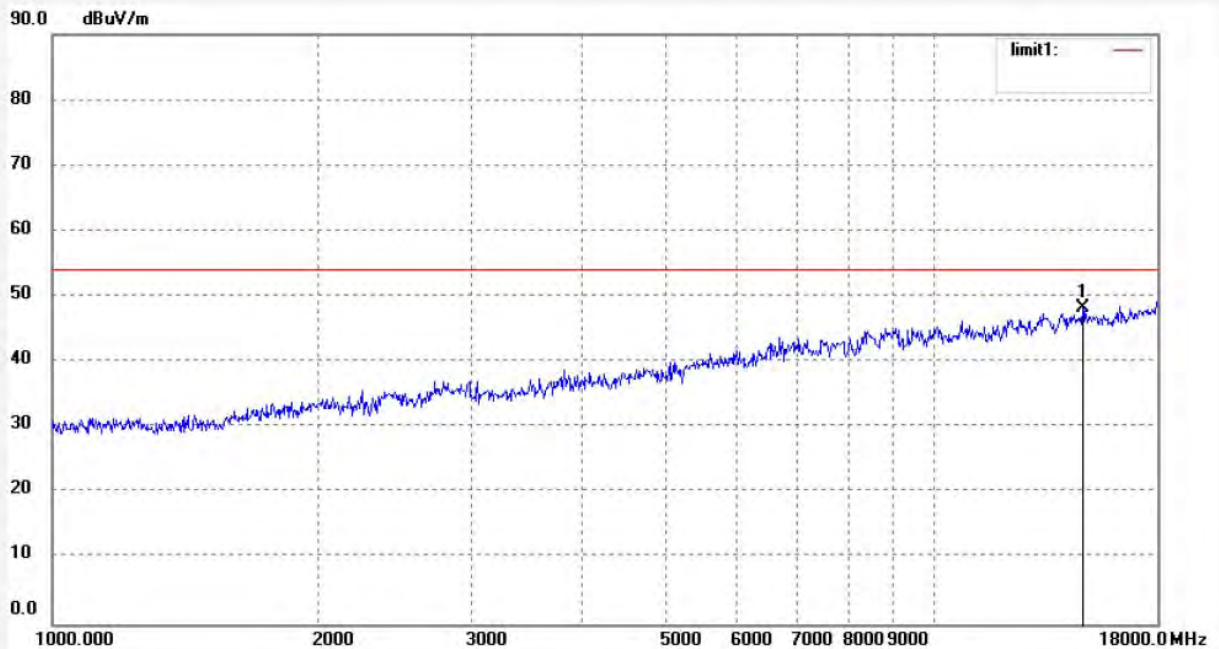
F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
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Site: 1# Chamber
Tel:+86-0755-26503290
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Job No.: STAR2015 #1877
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 25 C / 55 %
EUT: Household air conditioner overseas usb wifi moudule
Mode: TX Channel 1 (802.11b)
Model: MK-QTWIFI-03
Manufacturer: Rayson

Polarization: Horizontal
Power Source: DC 5V
Date: 15/10/23/
Time: 16/15/26
Engineer Signature: star
Distance: 3m

Note: Report No.:ATE20152120



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	14810.727	34.52	13.69	48.21	54.00	-5.79	peak			



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Site: 1# Chamber
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Job No.: STAR2015 #1878

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Household air conditioner overseas usb wifi module

Mode: TX Channel 6 (802.11b)

Model: MK-QTWIFI-03

Manufacturer: Rayson

Polarization: Horizontal

Power Source: DC 5V

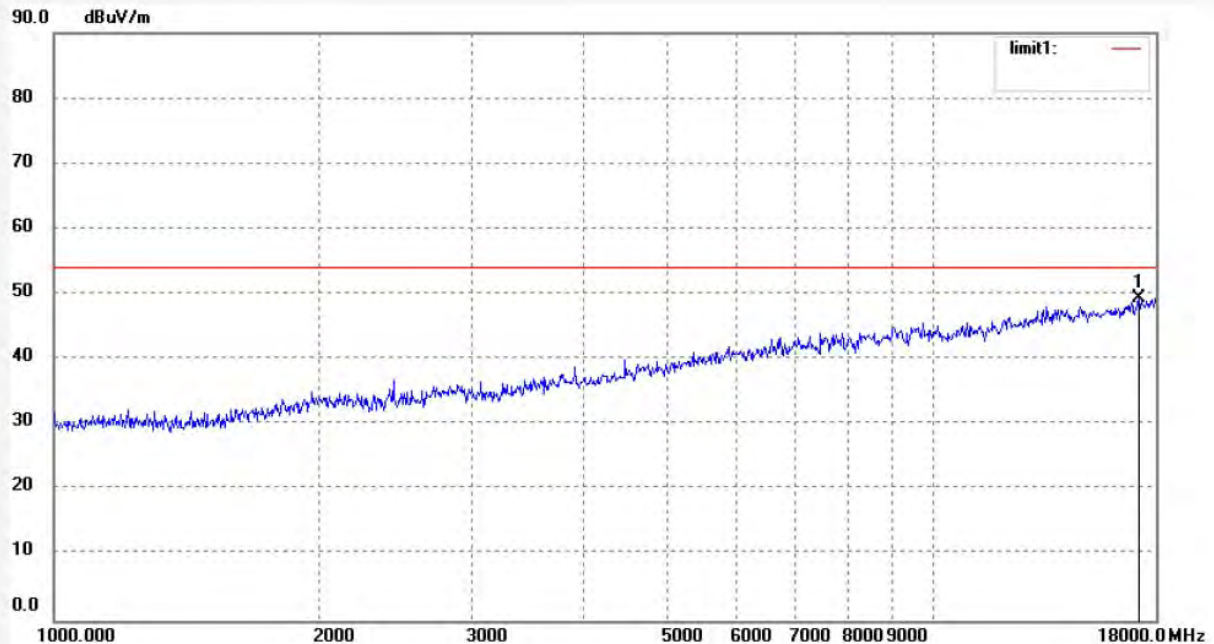
Date: 15/10/23/

Time: 16/16/07

Engineer Signature: star

Distance: 3m

Note: Report No.:ATE20152120



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	17231.008	33.39	15.91	49.30	54.00	-4.70	peak			



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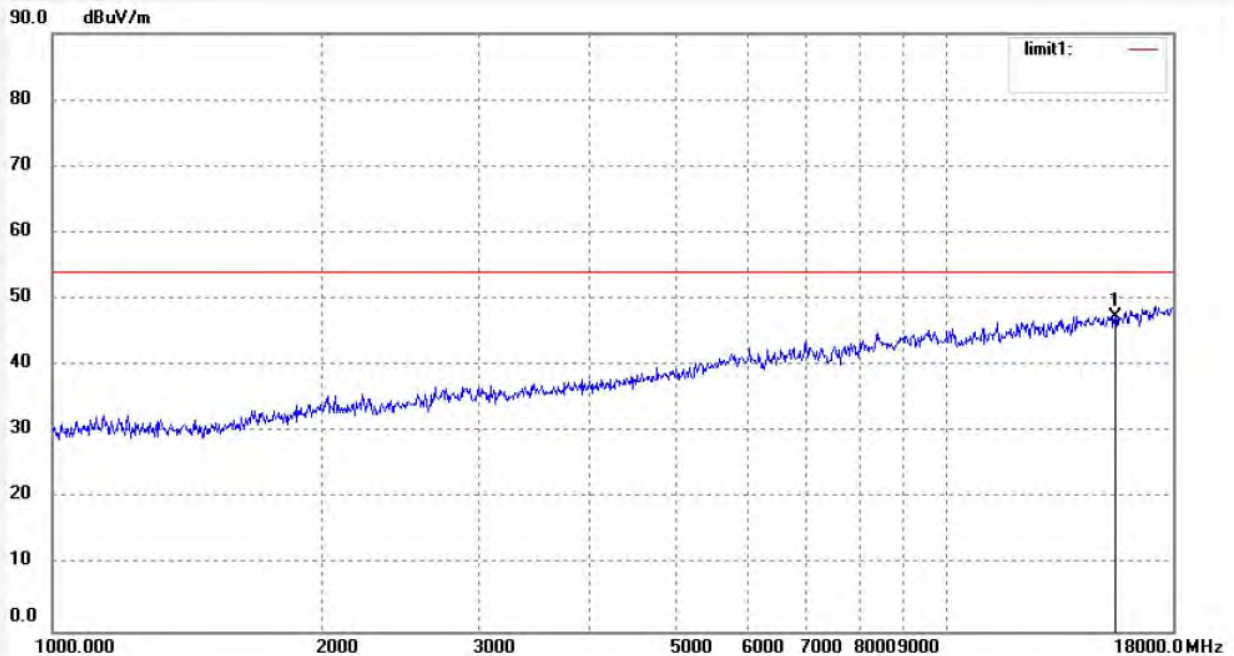
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Site: 1# Chamber
Tel:+86-0755-26503290
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Job No.: STAR2015 #1879
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 25 C / 55 %
EUT: Household air conditioner overseas usb wifi moudule
Mode: TX Channel 6 (802.11b)
Model: MK-QTWIFI-03
Manufacturer: Rayson

Polarization: Vertical
Power Source: DC 5V
Date: 15/10/23/
Time: 16/16/54
Engineer Signature: star
Distance: 3m

Note: Report No.:ATE20152120



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	15516.806	34.85	12.61	47.46	54.00	-6.54	peak			



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

Job No.: STAR2015 #1880

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Household air conditioner overseas usb wifi moudule

Mode: TX Channel 11 (802.11b)

Model: MK-QTWIFI-03

Manufacturer: Rayson

Polarization: Vertical

Power Source: DC 5V

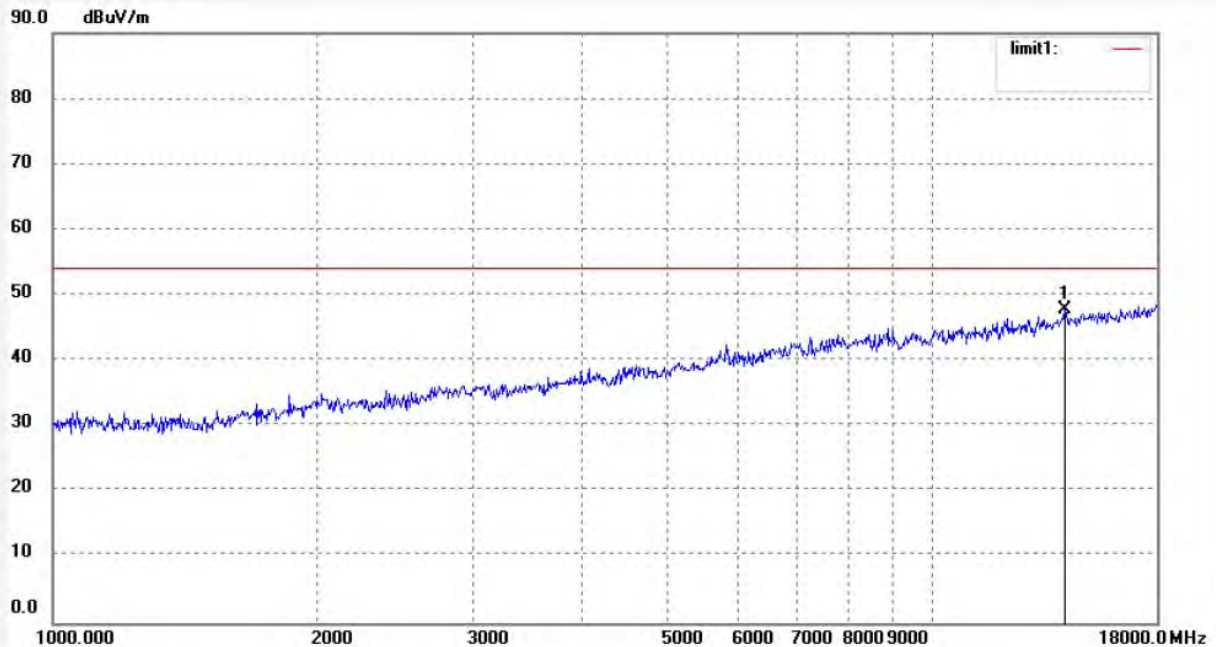
Date: 15/10/23/

Time: 16/17/33

Engineer Signature: star

Distance: 3m

Note: Report No.:ATE20152120



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	14136.778	35.44	12.41	47.85	54.00	-6.15	peak			



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Job No.: STAR2015 #1881

Polarization: Horizontal

Standard: FCC Class B 3M Radiated

Power Source: DC 5V

Test item: Radiation Test

Date: 15/10/23/

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

Time: 16/18/14

EUT: Household air conditioner overseas usb wifi moudule

Engineer Signature: star

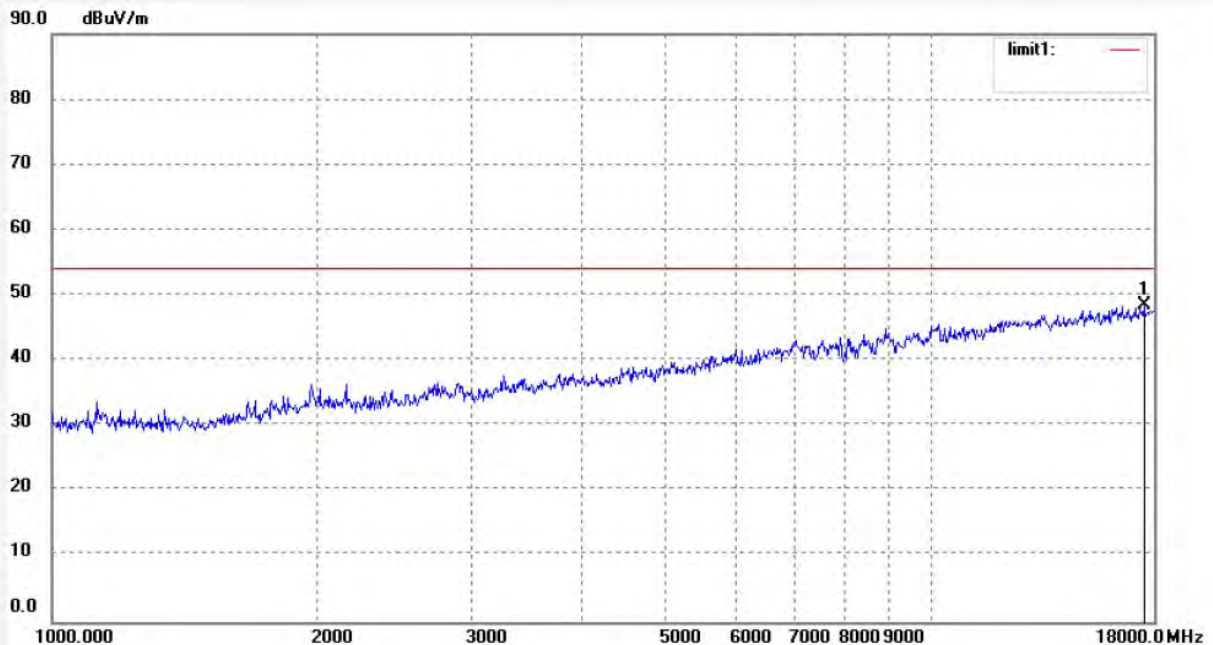
Mode: TX Channel 11 (802.11b)

Distance: 3m

Model: MK-QTWIFI-03

Manufacturer: Rayson

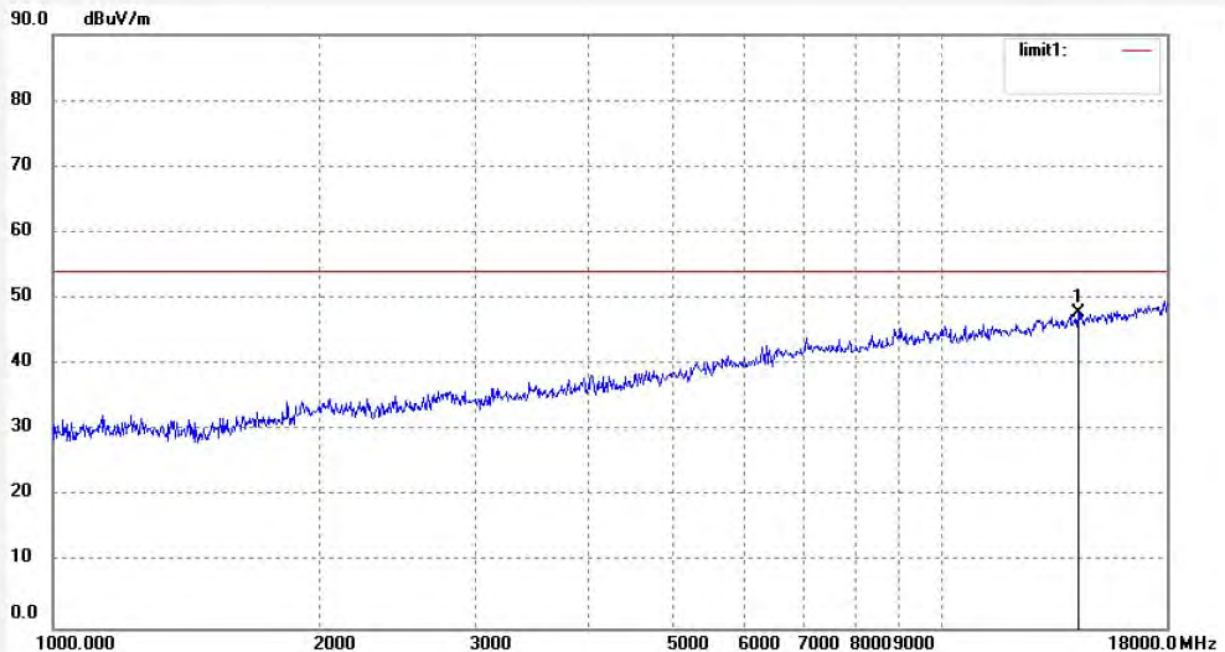
Note: Report No.:ATE20152120



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	17534.582	31.17	17.23	48.40	54.00	-5.60	peak			

Job No.: STAR2015 #1882	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 5V
Test item: Radiation Test	Date: 15/10/23/
Temp.(C)/Hum.(%) 25 C / 55 %	Time: 16/25/43
EUT: Household air conditioner overseas usb wifi moudule	Engineer Signature: star
Mode: TX Channel 1 (802.11g)	Distance: 3m
Model: MK-QTWIFI-03	
Manufacturer: Rayson	

Note: Report No.:ATE20152120



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	14302.334	34.55	13.28	47.83	54.00	-6.17	peak			



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Job No.: STAR2015 #1883

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Household air conditioner overseas usb wifi moudule

Mode: TX Channel 1 (802.11g)

Model: MK-QTWIFI-03

Manufacturer: Rayson

Polarization: Vertical

Power Source: DC 5V

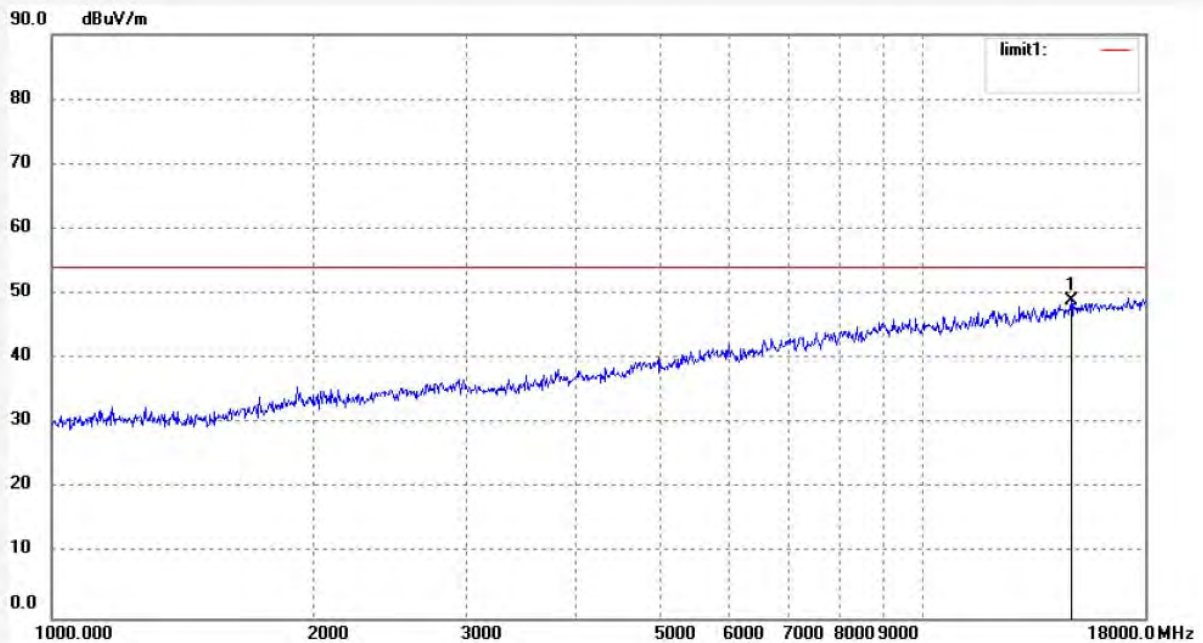
Date: 15/10/23/

Time: 16/26/38

Engineer Signature: star

Distance: 3m

Note: Report No.:ATE20152120



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	14810.727	35.32	13.69	49.01	54.00	-4.99	peak			

Job No.: STAR2015 #1884

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Household air conditioner overseas usb wifi moudule

Mode: TX Channel 6 (802.11g)

Model: MK-QTWIFI-03

Manufacturer: Rayson

Polarization: Vertical

Power Source: DC 5V

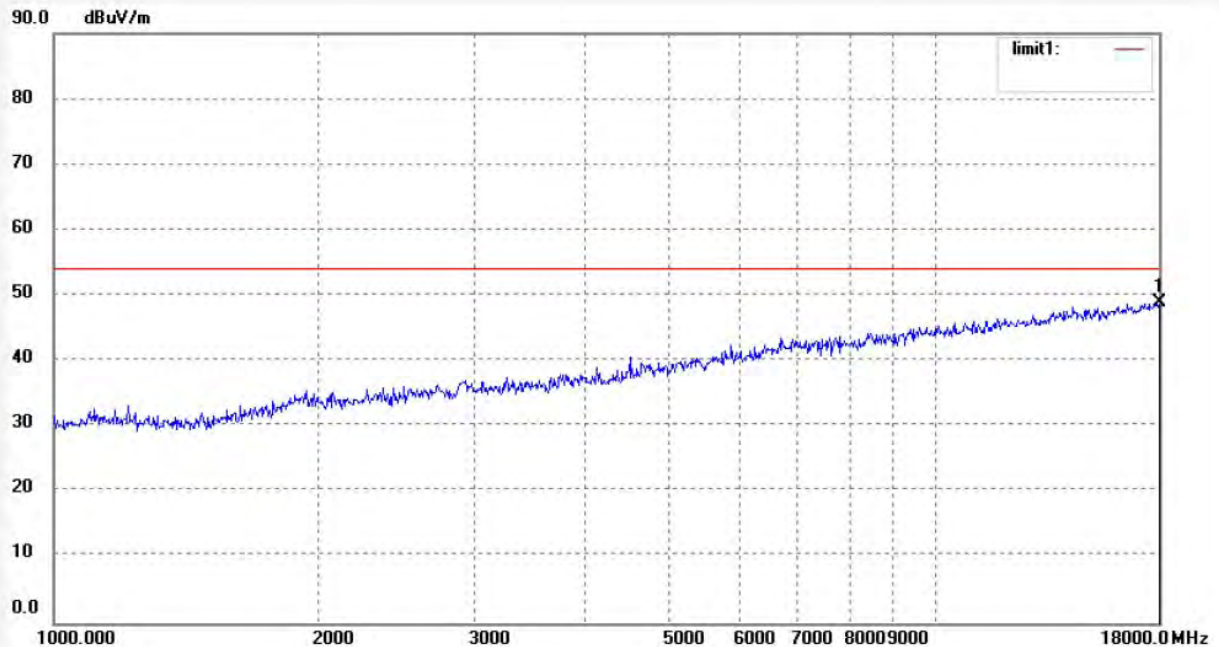
Date: 15/10/23/

Time: 16/27/43

Engineer Signature: star

Distance: 3m

Note: Report No.:ATE20152120



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	18000.000	29.33	19.58	48.91	54.00	-5.09	peak			



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Job No.: STAR2015 #1885

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Household air conditioner overseas usb wifi moudule

Mode: TX Channel 6 (802.11g)

Model: MK-QTWIFI-03

Manufacturer: Rayson

Polarization: Horizontal

Power Source: DC 5V

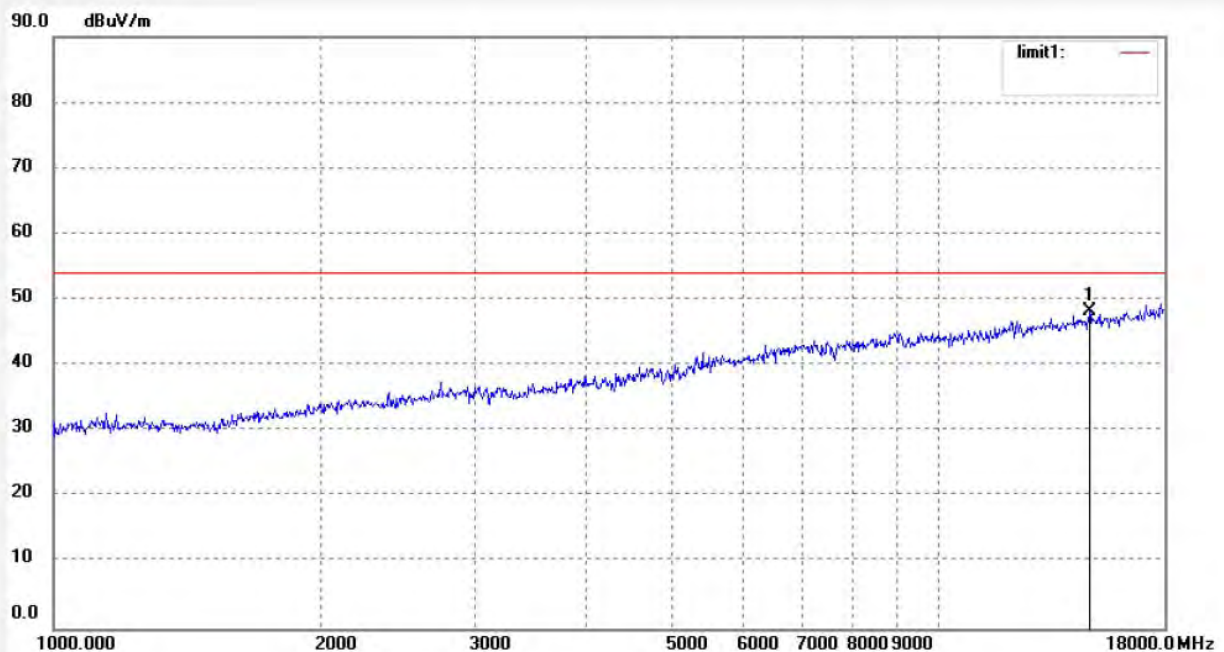
Date: 15/10/23/

Time: 16/28/54

Engineer Signature: star

Distance: 3m

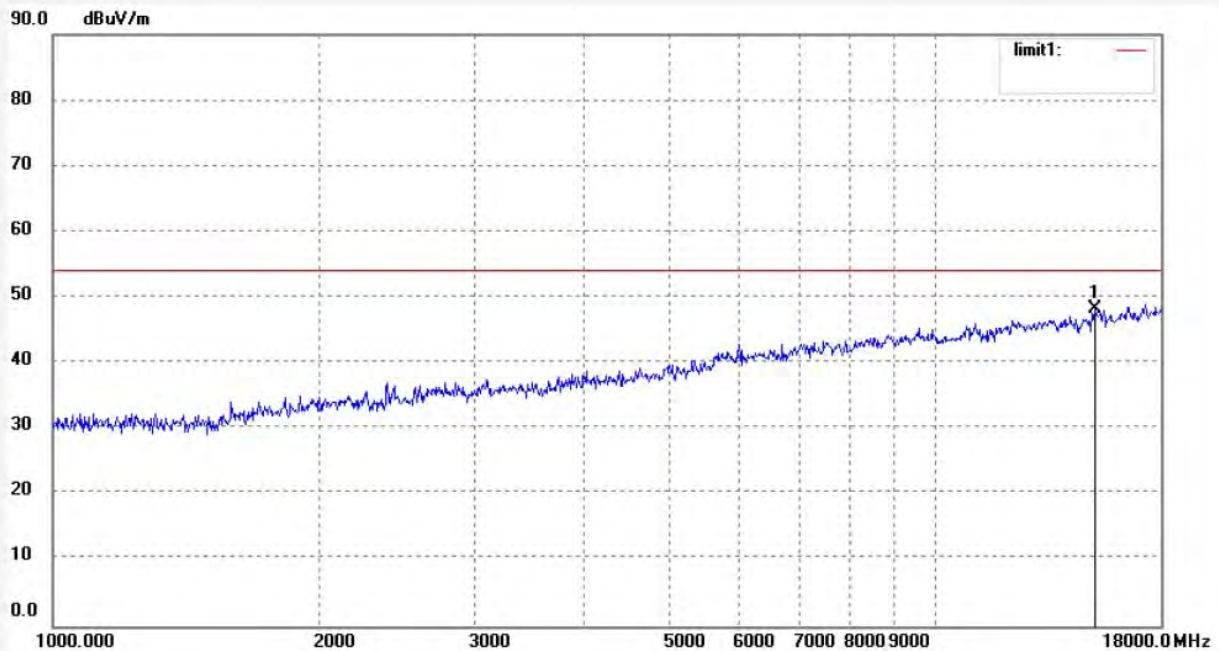
Note: Report No.:ATE20152120



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	14810.727	34.55	13.69	48.24	54.00	-5.76	peak			

Job No.: STAR2015 #1886	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 5V
Test item: Radiation Test	Date: 15/10/23/
Temp.(C)/Hum.(%) 25 C / 55 %	Time: 17/12/21
EUT: Household air conditioner overseas usb wifi moudule	Engineer Signature: star
Mode: TX Channel 11 (802.11g)	Distance: 3m
Model: MK-QTWIFI-03	
Manufacturer: Rayson	

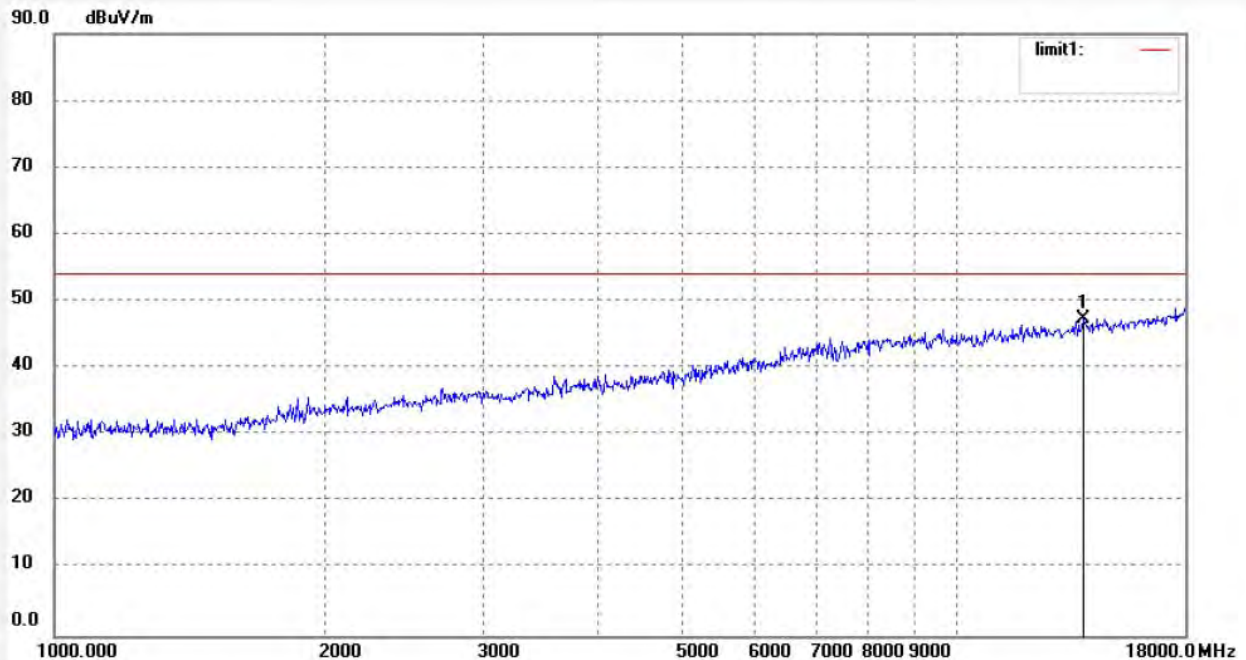
Note: Report No.:ATE20152120



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	15159.656	35.11	13.06	48.17	54.00	-5.83	peak			

Job No.: STAR2015 #1887	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 5V
Test item: Radiation Test	Date: 15/10/23/
Temp.(C)/Hum.(%) 25 C / 55 %	Time: 17/13/07
EUT: Household air conditioner overseas usb wifi moudule	Engineer Signature: star
Mode: TX Channel 11 (802.11g)	Distance: 3m
Model: MK-QTWIFI-03	
Manufacturer: Rayson	

Note: Report No.:ATE20152120



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	13851.652	36.10	11.30	47.40	54.00	-6.60	peak			

Job No.: STAR2015 #1888

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Household air conditioner overseas usb wifi moudule

Mode: TX Channel 1 (802.11n)

Model: MK-QTWIFI-03

Manufacturer: Rayson

Polarization: Horizontal

Power Source: DC 5V

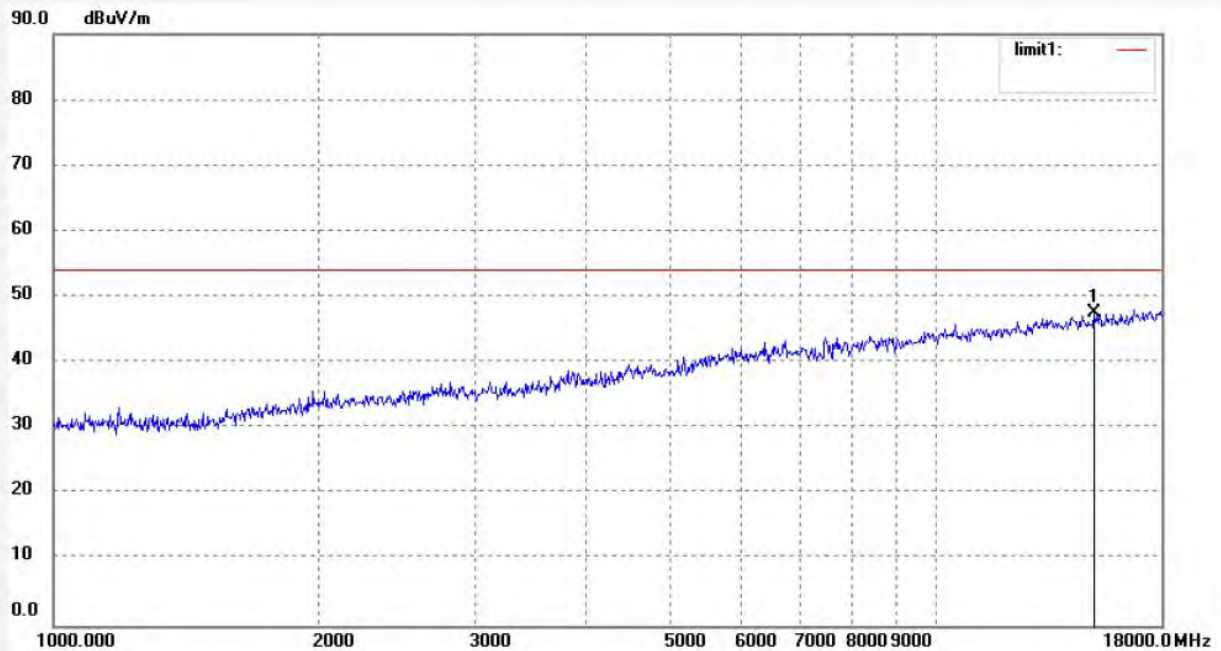
Date: 15/10/23/

Time: 17/13/57

Engineer Signature: star

Distance: 3m

Note: Report No.:ATE20152120



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	15115.594	34.36	13.13	47.49	54.00	-6.51	peak			



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Job No.: STAR2015 #1889

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Household air conditioner overseas usb wifi module

Mode: TX Channel 1 (802.11n)

Model: MK-QTWIFI-03

Manufacturer: Rayson

Polarization: Vertical

Power Source: DC 5V

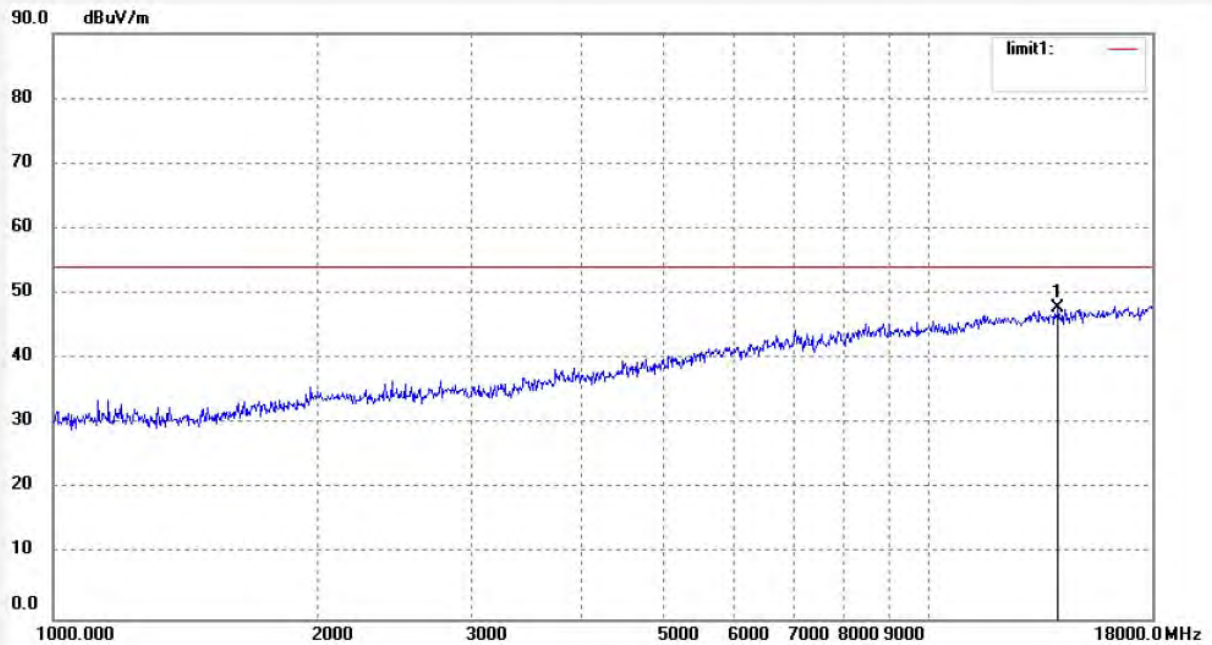
Date: 15/10/23/

Time: 17/14/47

Engineer Signature: star

Distance: 3m

Note: Report No.:ATE20152120



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	14054.720	35.87	11.97	47.84	54.00	-6.16	peak			



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Job No.: STAR2015 #1890

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Household air conditioner overseas usb wifi module

Mode: TX Channel 6 (802.11n)

Model: MK-QTWIFI-03

Manufacturer: Rayson

Polarization: Vertical

Power Source: DC 5V

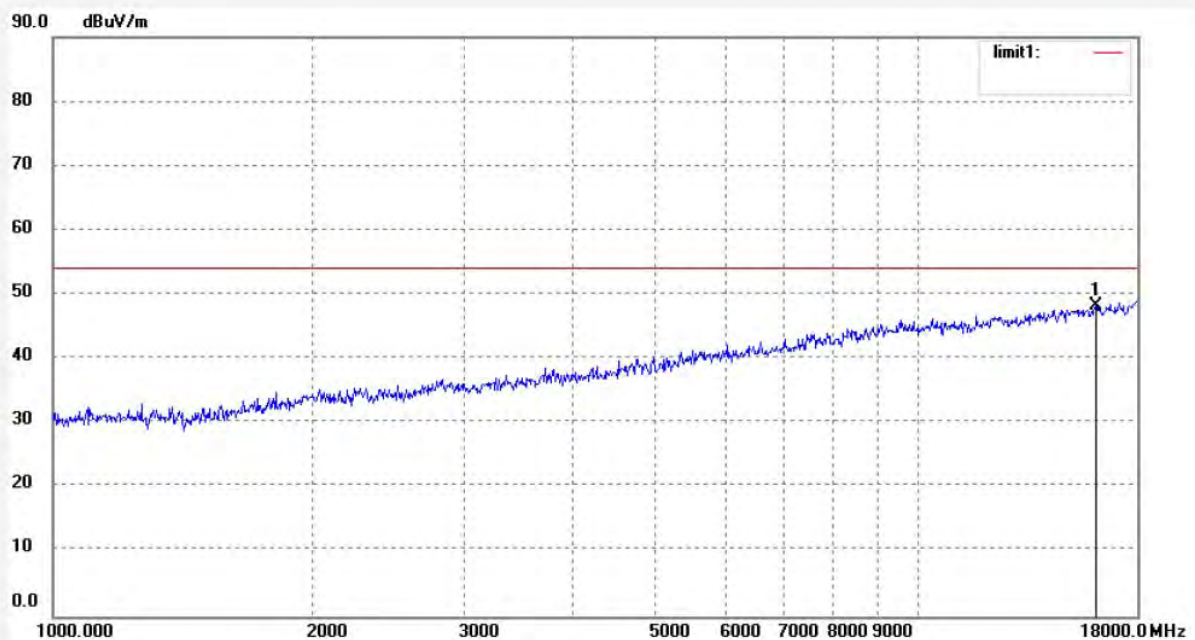
Date: 15/10/23/

Time: 17/15/39

Engineer Signature: star

Distance: 3m

Note: Report No.:ATE20152120



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	16115.207	35.37	12.92	48.29	54.00	-5.71	peak			



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Job No.: STAR2015 #1891

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Household air conditioner overseas usb wifi moudule

Mode: TX Channel 6 (802.11n)

Model: MK-QTWIFI-03

Manufacturer: Rayson

Polarization: Horizontal

Power Source: DC 5V

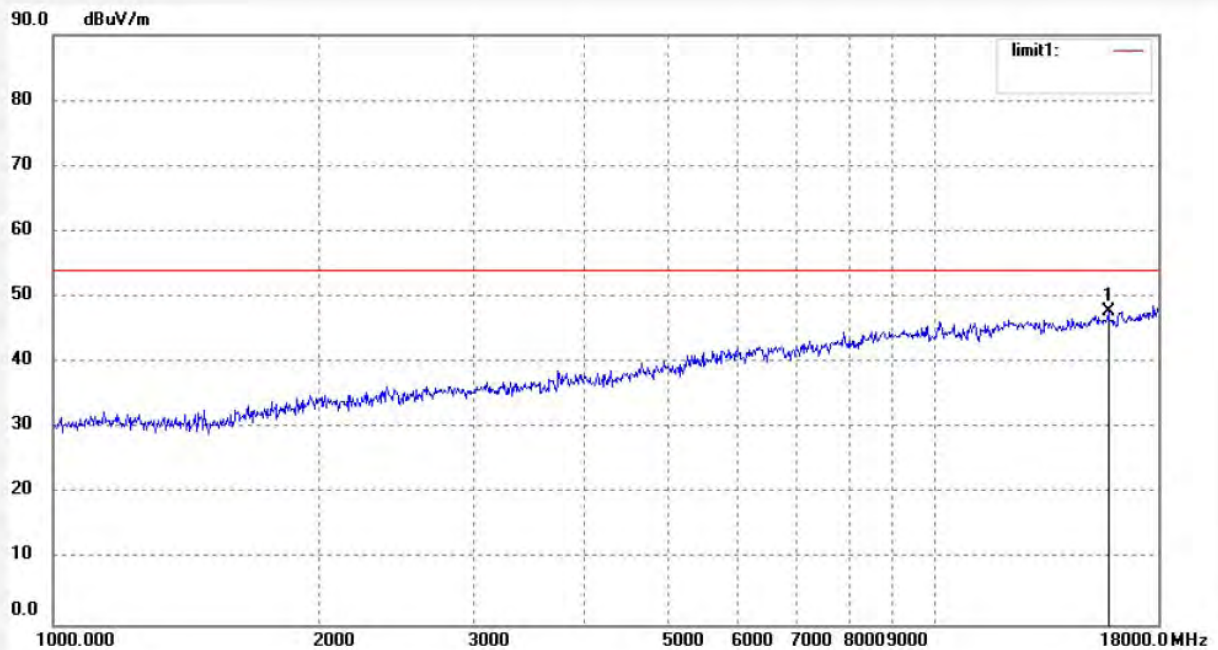
Date: 15/10/23/

Time: 17/16/25

Engineer Signature: star

Distance: 3m

Note: Report No.:ATE20152120



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	15790.179	35.10	12.72	47.82	54.00	-6.18	peak			

Job No.: STAR2015 #1892

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Household air conditioner overseas usb wifi moudule

Mode: TX Channel 11 (802.11n)

Model: MK-QTWIFI-03

Manufacturer: Rayson

Polarization: Horizontal

Power Source: DC 5V

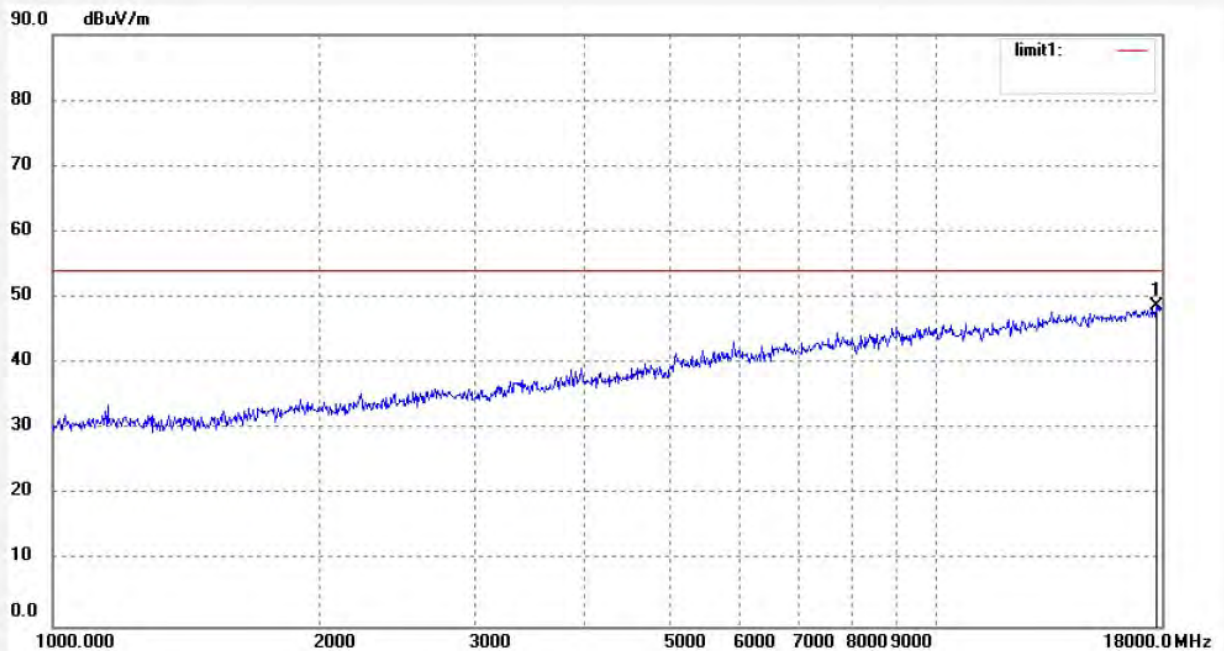
Date: 15/10/23/

Time: 17/17/32

Engineer Signature: star

Distance: 3m

Note: Report No.:ATE20152120



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	17791.642	30.17	18.53	48.70	54.00	-5.30	peak			

Job No.: STAR2015 #1893

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Household air conditioner overseas usb wifi moudule

Mode: TX Channel 11 (802.11n)

Model: MK-QTWIFI-03

Manufacturer: Rayson

Polarization: Vertical

Power Source: DC 5V

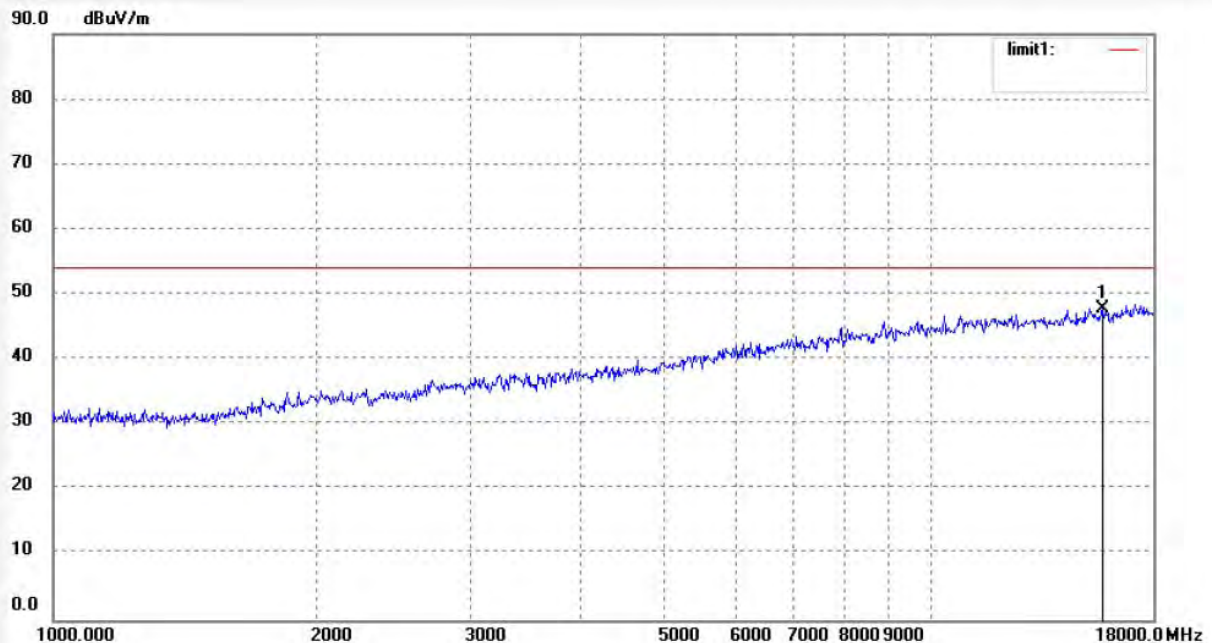
Date: 15/10/23/

Time: 17/18/47

Engineer Signature: star

Distance: 3m

Note: Report No.:ATE20152120



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	15744.284	35.15	12.70	47.85	54.00	-6.15	peak			



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Job No.: STAR2015 #1894

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Household air conditioner overseas usb wifi moudule

Mode: TX Channel 3 (802.11n)40MHz

Model: MK-QTWIFI-03

Manufacturer: Rayson

Polarization: Vertical

Power Source: DC 5V

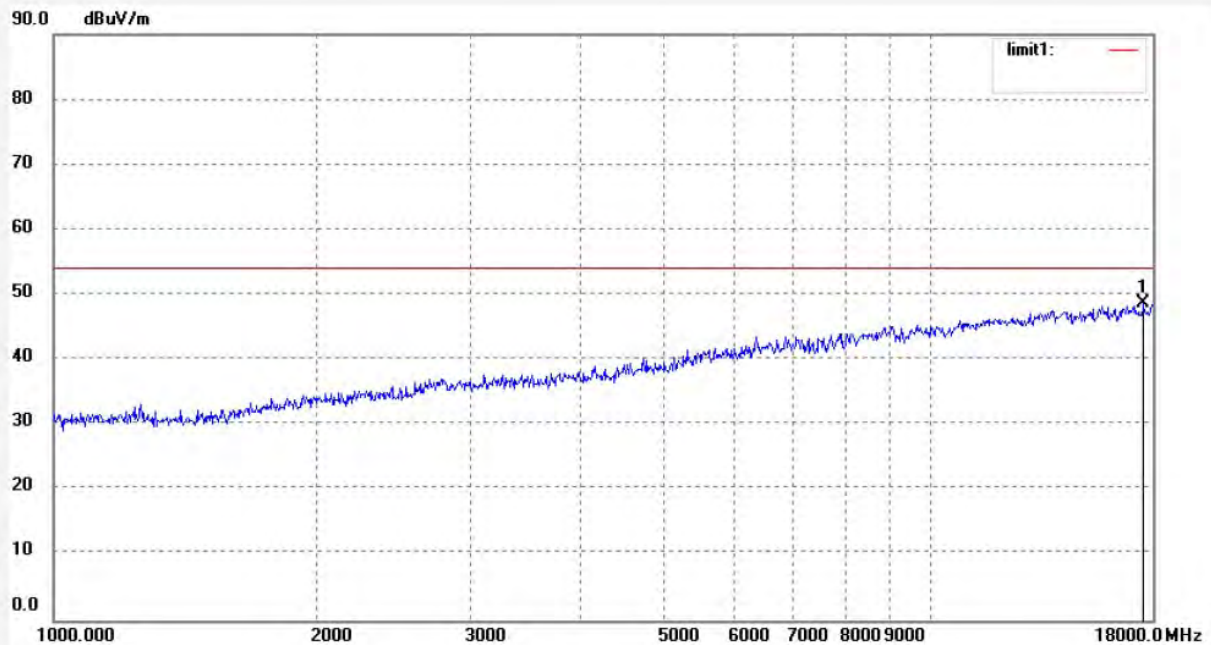
Date: 15/10/23/

Time: 17/19/55

Engineer Signature: star

Distance: 3m

Note: Report No.:ATE20152120



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	17585.695	31.26	17.49	48.75	54.00	-5.25	peak			



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Job No.: STAR2015 #1895

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Household air conditioner overseas usb wifi moudule

Mode: TX Channel 3 (802.11n)40MHz

Model: MK-QTWIFI-03

Manufacturer: Rayson

Polarization: Horizontal

Power Source: DC 5V

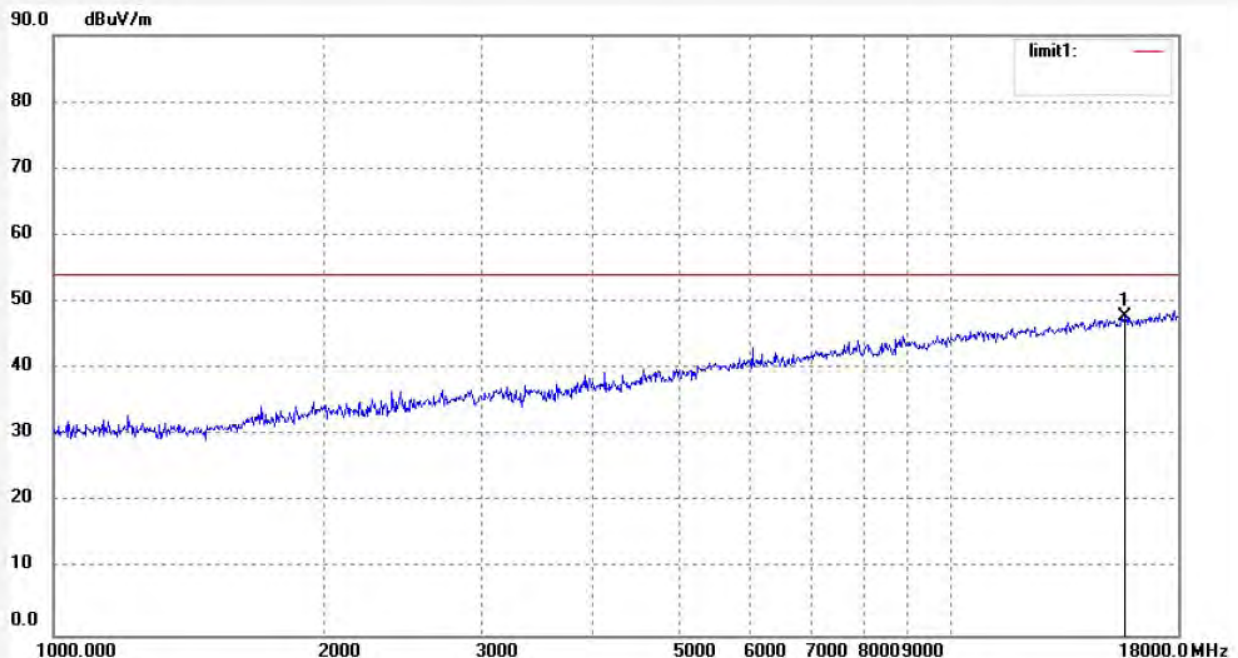
Date: 15/10/23/

Time: 17/20/46

Engineer Signature: star

Distance: 3m

Note: Report No.:ATE20152120



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	15698.523	35.06	12.68	47.74	54.00	-6.26	peak			



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Job No.: STAR2015 #1896

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Household air conditioner overseas usb wifi moudule

Mode: TX Channel 6 (802.11n)40MHz

Model: MK-QTWIFI-03

Manufacturer: Rayson

Polarization: Horizontal

Power Source: DC 5V

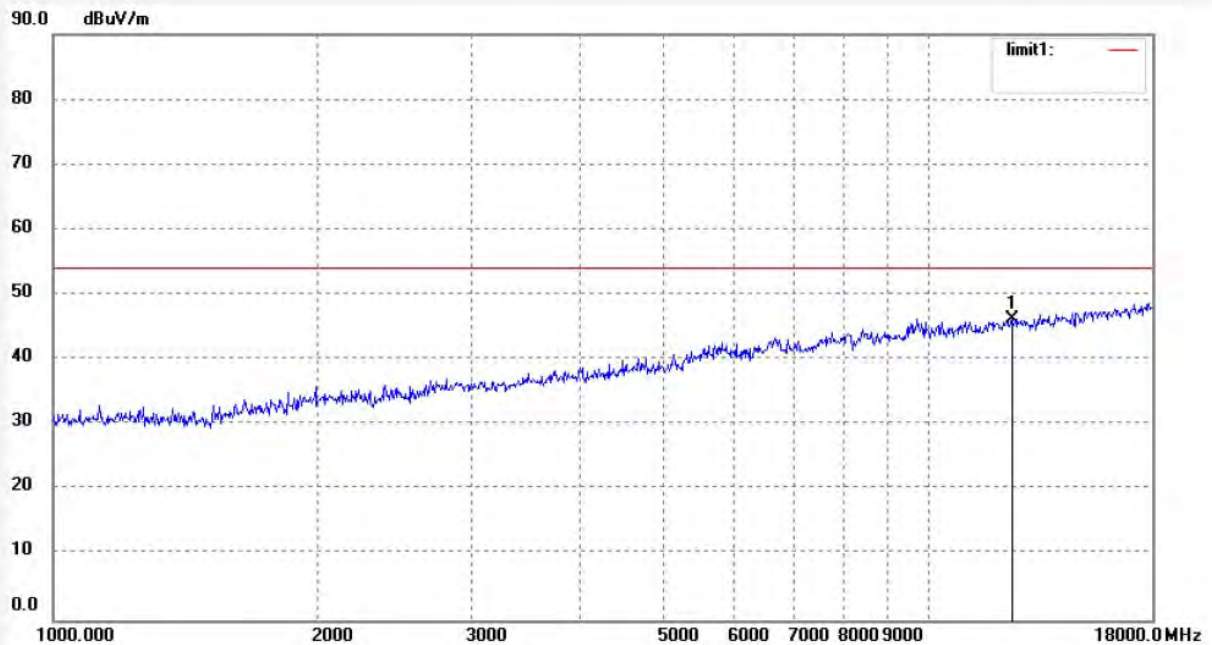
Date: 15/10/23/

Time: 17/21/59

Engineer Signature: star

Distance: 3m

Note: Report No.:ATE20152120



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	12437.385	38.20	8.06	46.26	54.00	-7.74	peak			



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Job No.: STAR2015 #1897

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Household air conditioner overseas usb wifi moudule

Mode: TX Channel 6 (802.11n)40MHz

Model: MK-QTWIFI-03

Manufacturer: Rayson

Polarization: Vertical

Power Source: DC 5V

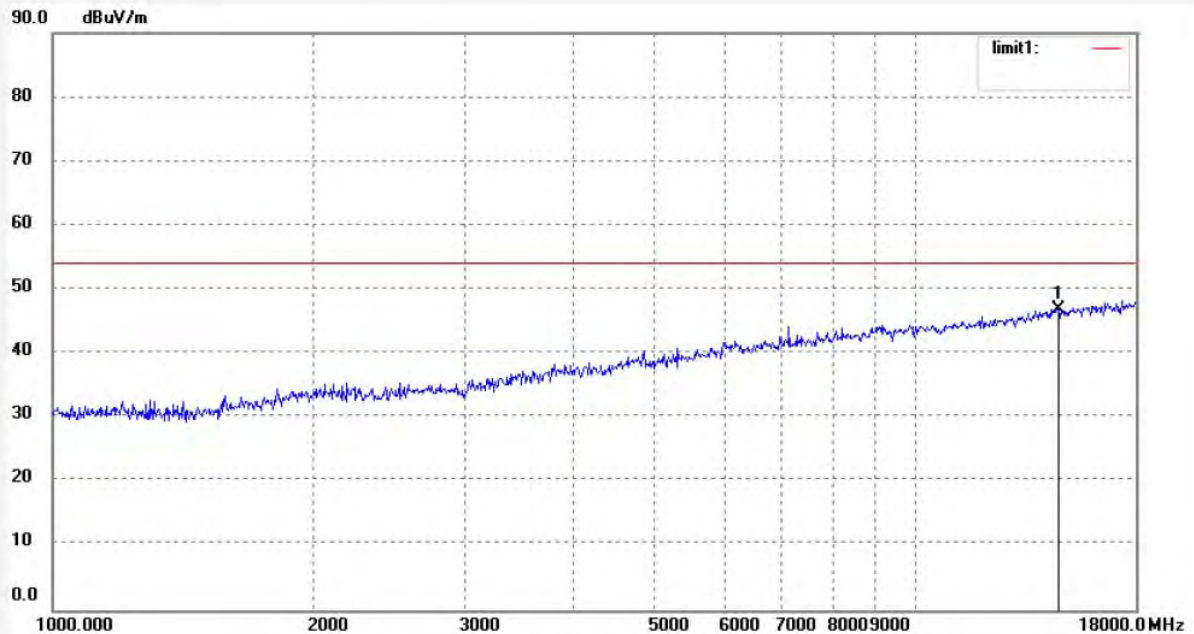
Date: 15/10/23/

Time: 17/22/50

Engineer Signature: star

Distance: 3m

Note: Report No.:ATE20152120



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	14639.286	32.96	14.04	47.00	54.00	-7.00	peak			



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Job No.: STAR2015 #1898

Polarization: Vertical

Standard: FCC Class B 3M Radiated

Power Source: DC 5V

Test item: Radiation Test

Date: 15/10/23/

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

Time: 17/23/56

EUT: Household air conditioner overseas usb wifi module

Engineer Signature: star

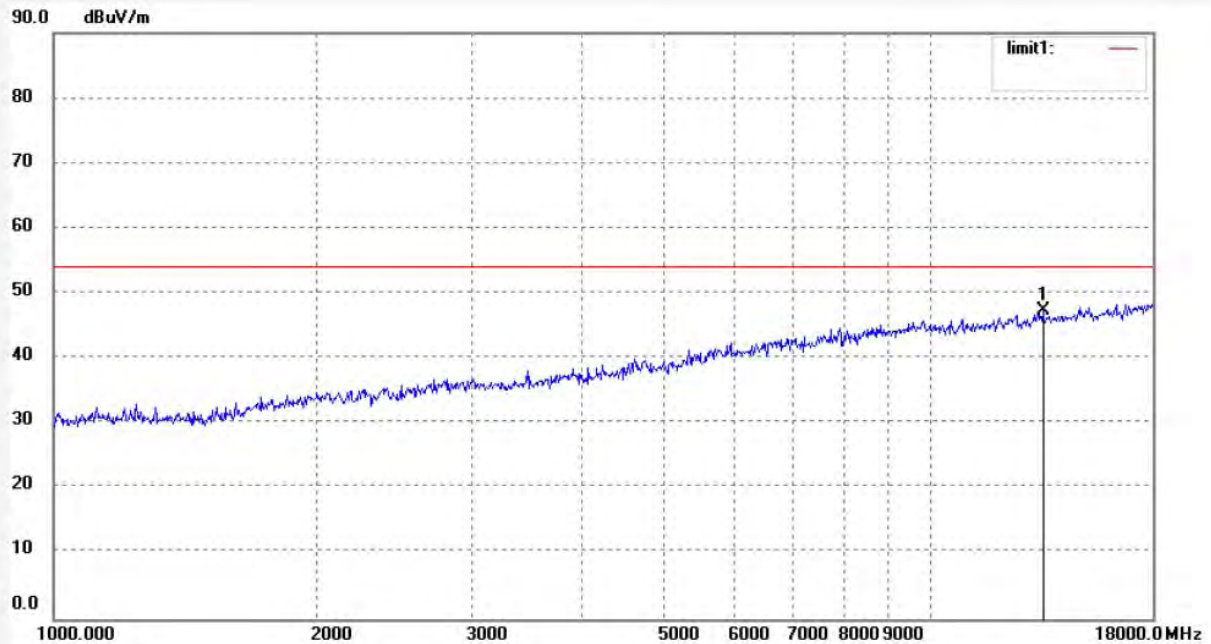
Mode: TX Channel 9 (802.11n)40MHz

Distance: 3m

Model: MK-QTWIFI-03

Manufacturer: Rayson

Note: Report No.:ATE20152120



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	13493.496	37.00	10.39	47.39	54.00	-6.61	peak			



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Job No.: STAR2015 #1899

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Household air conditioner overseas usb wifi module

Mode: TX Channel 9 (802.11n)40MHz

Model: MK-QTWIFI-03

Manufacturer: Rayson

Polarization: Horizontal

Power Source: DC 5V

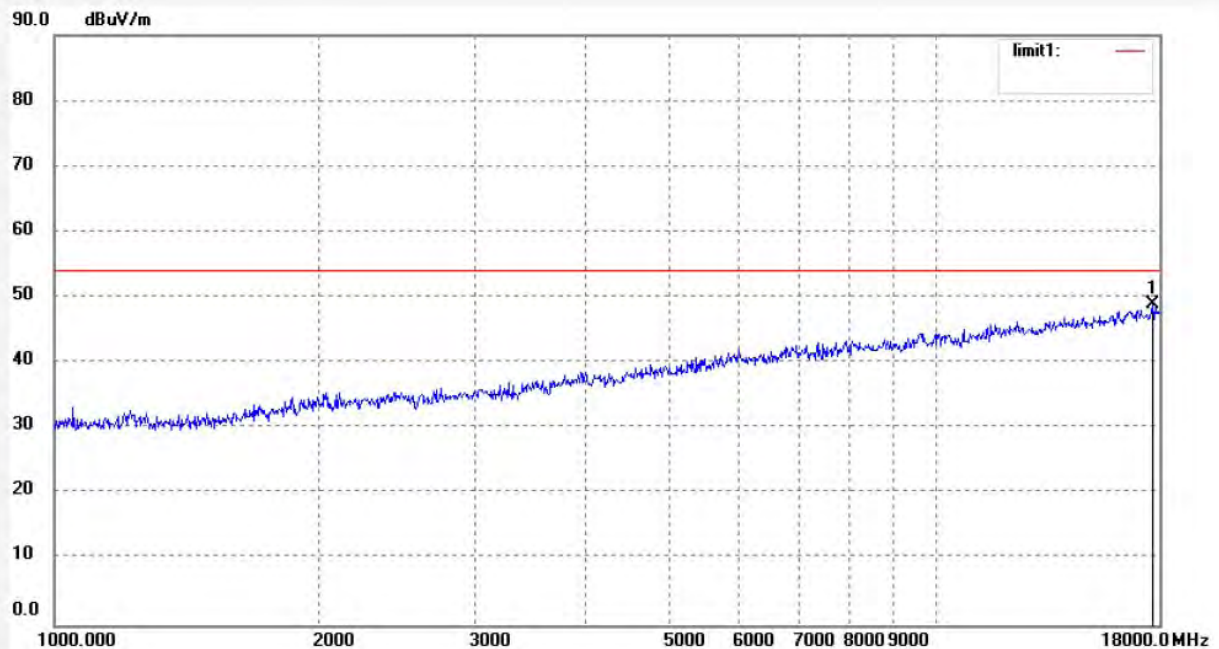
Date: 15/10/23/

Time: 17/24/53

Engineer Signature: star

Distance: 3m

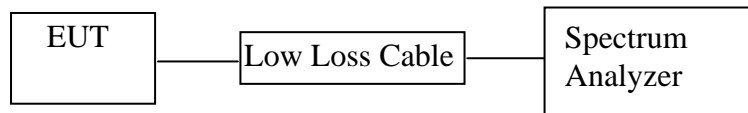
Note: Report No.:ATE20152120



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	17688.369	30.85	18.01	48.86	54.00	-5.14	peak			

11.CONDUCTED SPURIOUS EMISSION COMPLIANCE TEST

11.1.Block Diagram of Test Setup



11.2.The Requirement For Section 15.247(d)

Section 15.247(d): In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a).

11.3.EUT Configuration on Measurement

The equipment is 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 2412-2462 and 2422-2452MHz. We select 2412MHz, 2437MHz, 2462MHz and 2422MHz, 2437MHz, 2452MHz TX frequency to transmit.

11.5. Test Procedure

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.

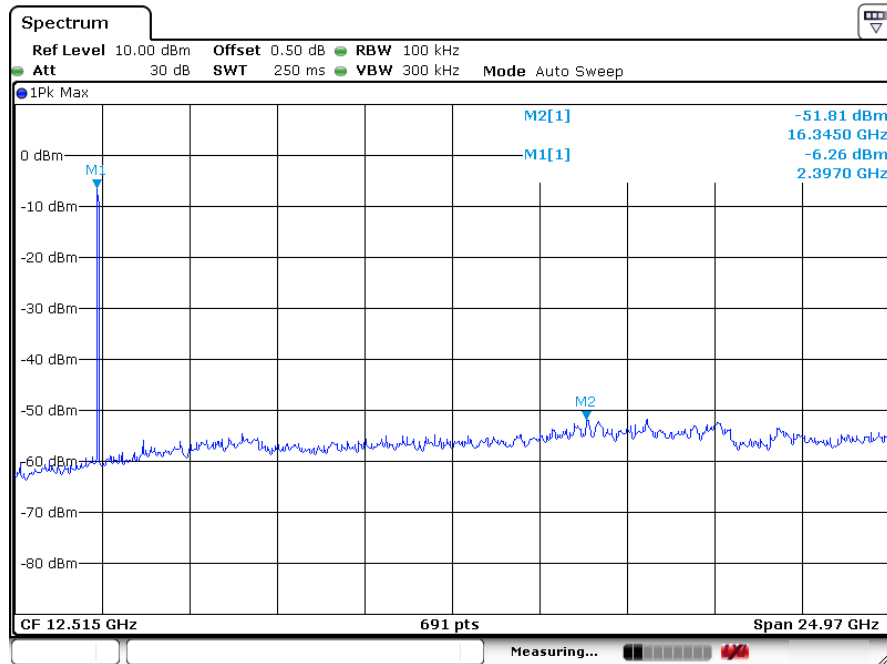
11.5.3. The Conducted Spurious Emission was measured and recorded.

11.6. Test Result

Pass.

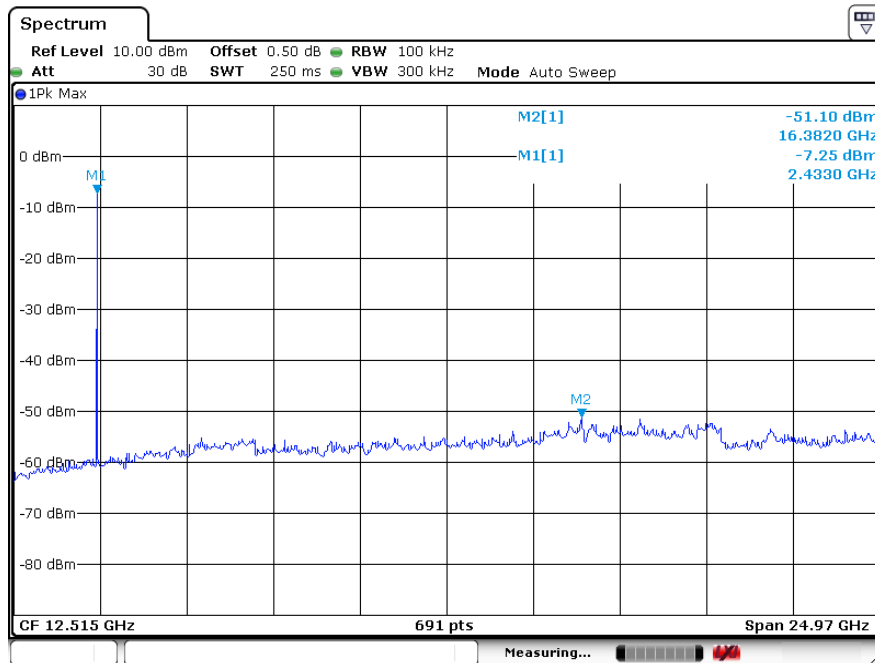
The spectrum analyzer plots are attached as below.

TX 802.11b Channel Low 2412MHz



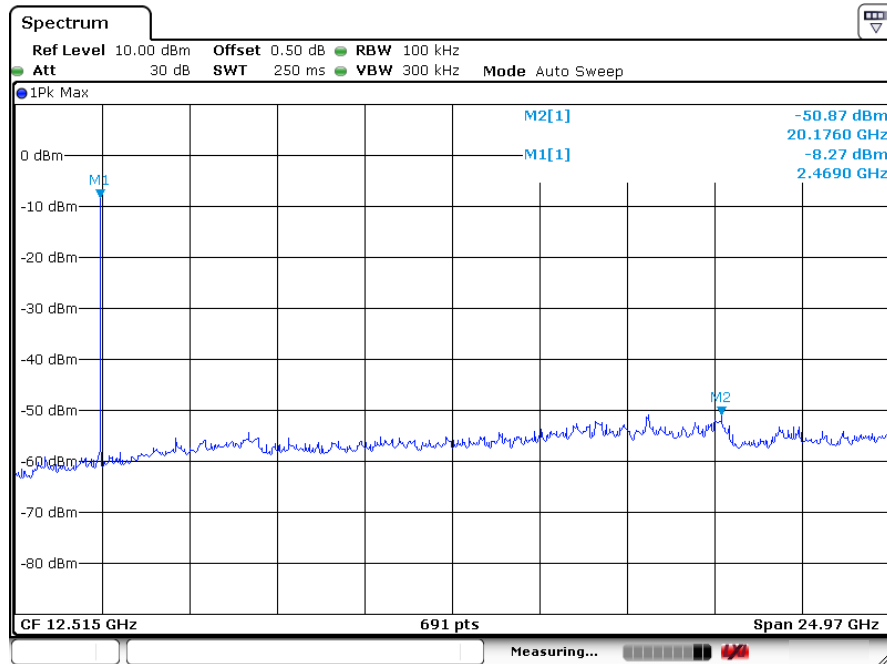
Date: 22.Oct.2015 10:48:13

TX 802.11b Channel Middle 2437MHz



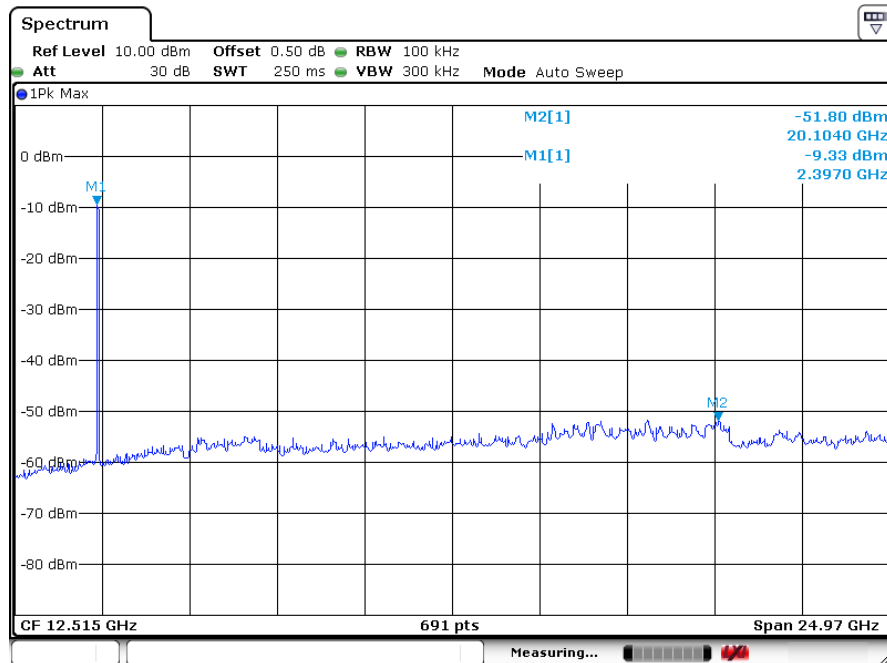
Date: 22.Oct.2015 10:47:00

TX 802.11b Channel High 2462MHz



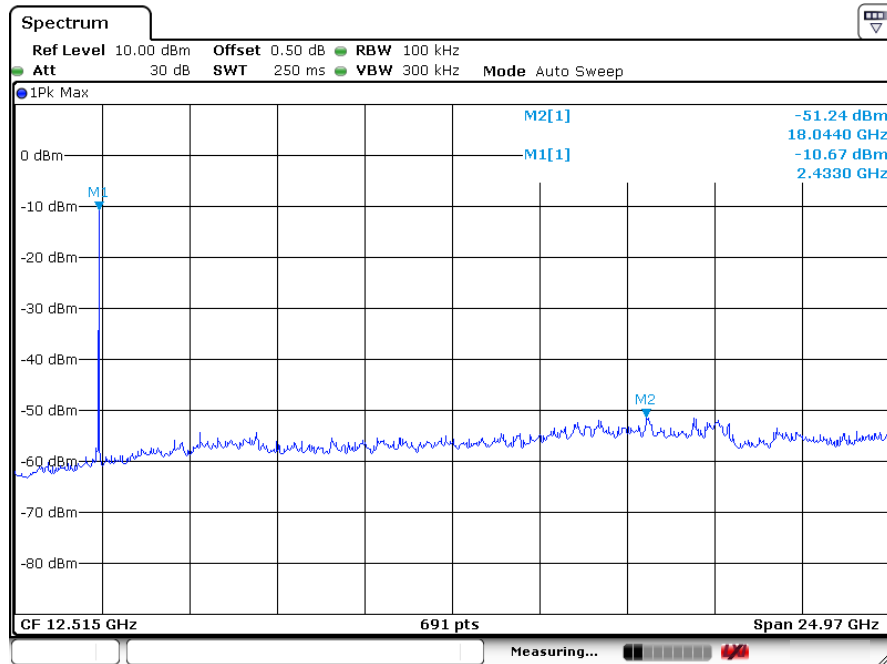
Date: 22.Oct.2015 10:49:12

TX 802.11g Channel Low 2412MHz



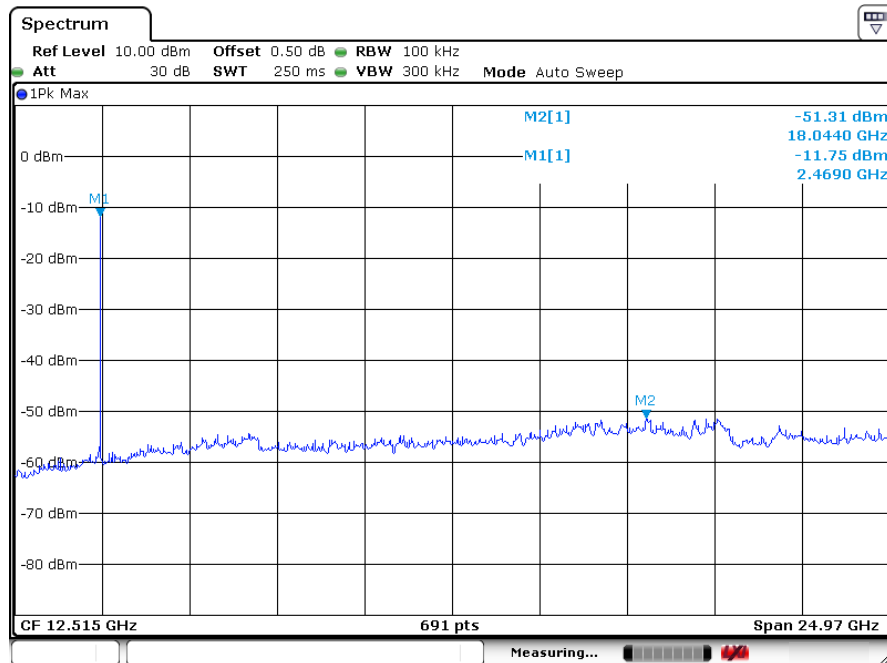
Date: 22.Oct.2015 10:55:30

TX 802.11g Channel Middle 2437MHz



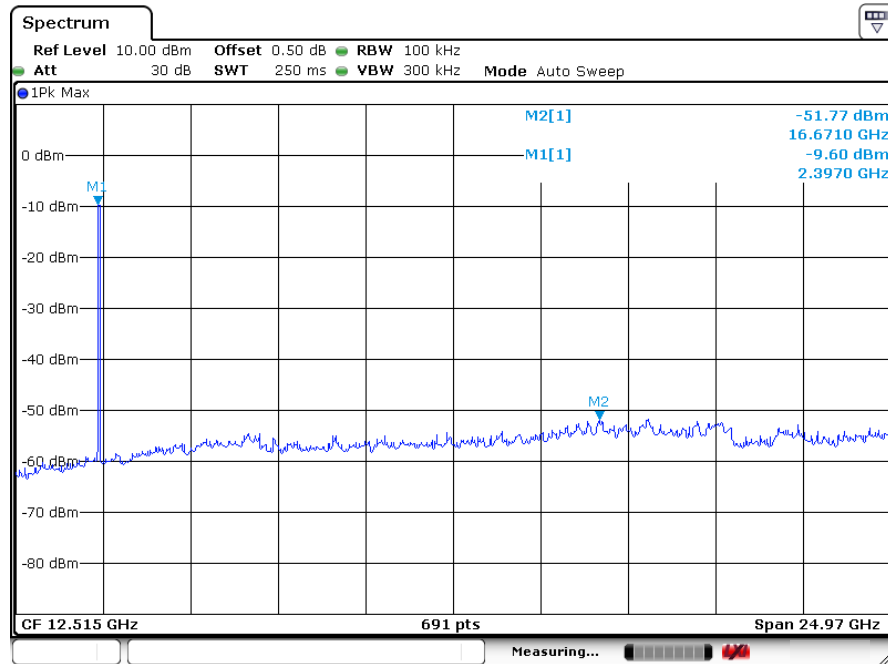
Date: 22.Oct.2015 10:53:11

TX 802.11g Channel High 2462MHz



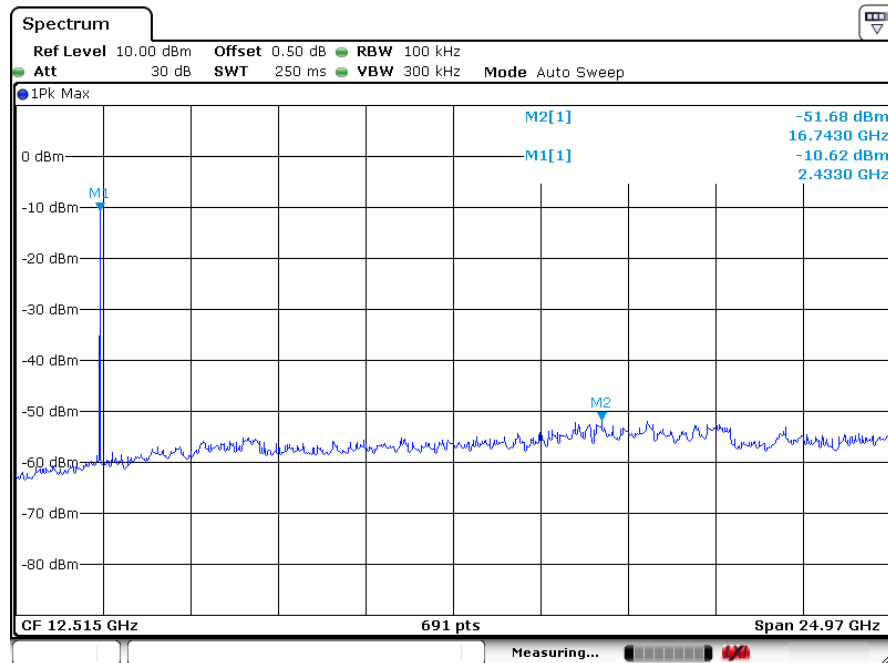
Date: 22.Oct.2015 10:52:12

TX 802.11n Channel Low 2412MHz (20MHz)



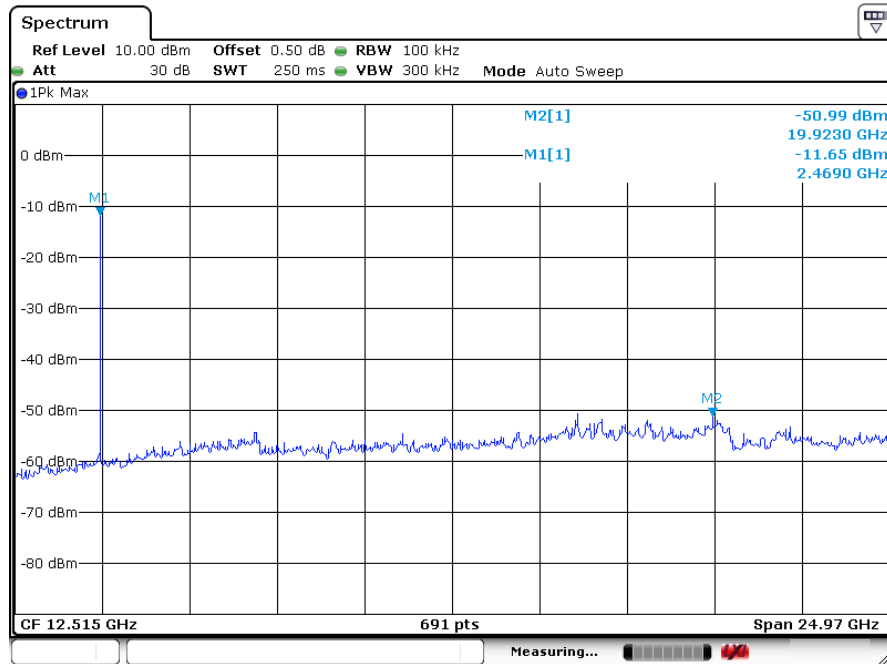
Date: 22.Oct.2015 10:56:43

TX 802.11n Channel Middle 2437MHz (20MHz)



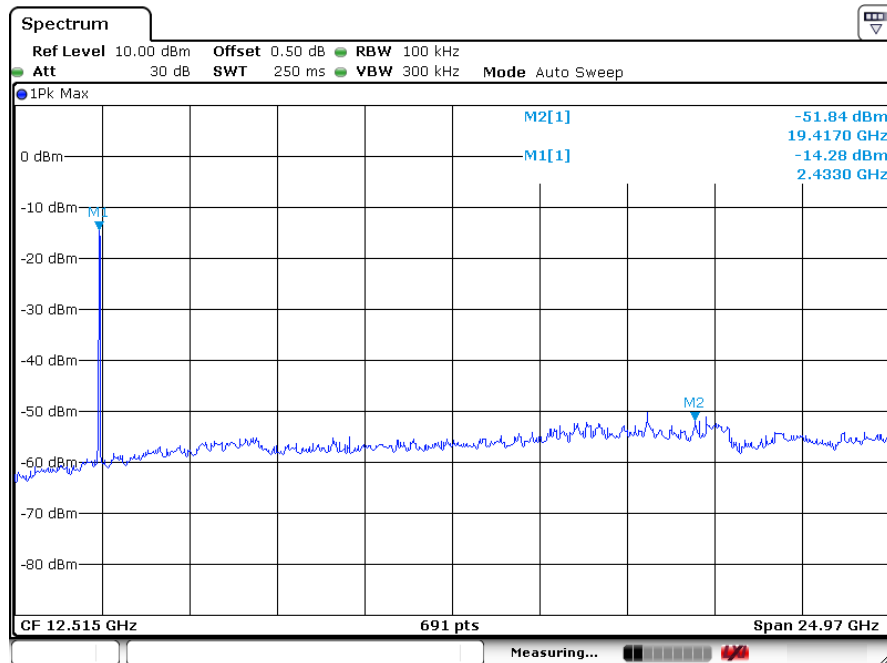
Date: 22.Oct.2015 10:57:29

TX 802.11n Channel High 2462MHz (20MHz)



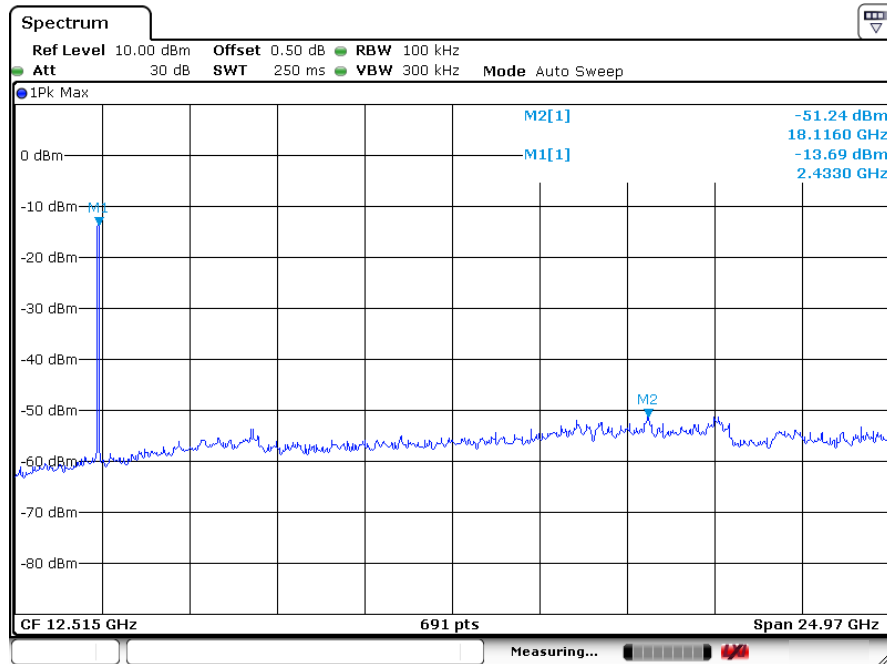
Date: 22.Oct.2015 10:59:15

TX 802.11n Channel Low 2422MHz (40MHz)



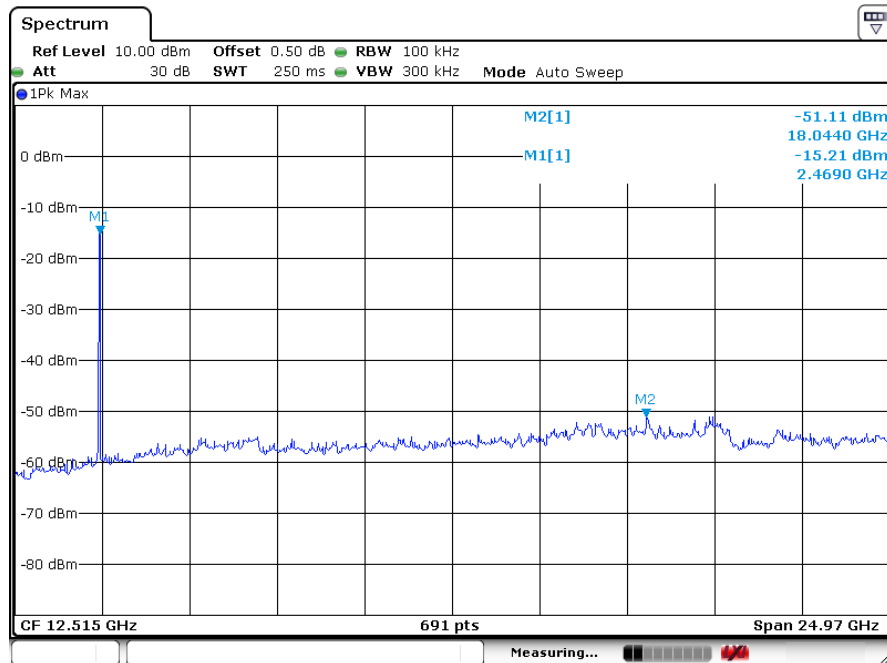
Date: 22.Oct.2015 11:02:38

TX 802.11n Channel Middle 2437MHz (40MHz)



Date: 22.Oct.2015 11:00:27

TX 802.11n Channel High 2452MHz (40MHz)



Date: 22.Oct.2015 11:03:35

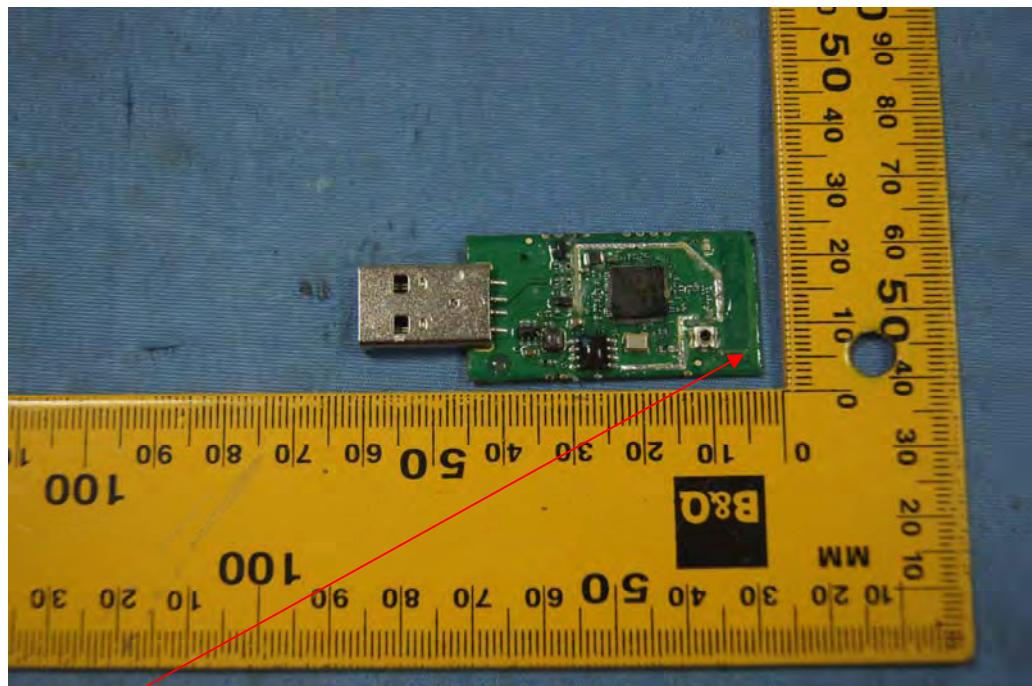
12.ANTENNA REQUIREMENT

12.1.The Requirement

According to Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

12.2.Antenna Construction

Device is equipped with permanent attached antenna, which isn't displaced by other antenna. The Antenna gain of EUT is 3.0dBi. Therefore, the equipment complies with the antenna requirement of Section 15.203.



Antenna