

Digital:  
Date + voice:

Conducted Power Measurement Results-2W		
Channel Separation	Channel	Measurement Result (dBm)
		For 33dBm(2W)
12.5 KHz	Bottom(400.025MHz)	32.40
	Middle(453.225MHz)	<b>32.47</b>
	Middle(454.025MHz)	32.45
	Top (469.975MHz )	32.43

Radiated Power Measurement Results-2W		
Channel Separation	Channel	Measurement Result (dBm)
		For 33dBm(2W)
12.5 KHz	Bottom(400.025MHz)	<b>32.36</b>
	Middle(453.225MHz)	32.32
	Middle(454.025MHz)	32.29
	Top (469.975MHz )	32.35

**Date transmission mode:**

Conducted Power Measurement Results-2W		
Channel Separation	Channel	Measurement Result (dBm)
		For 33dBm(2W)
12.5 KHz	Bottom(400.025MHz)	32.31
	Middle(453.225MHz)	32.29
	Middle(454.025MHz)	32.26
	Top (469.975MHz )	<b>32.35</b>



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Tel: +86-755 2523 4088

E-mail: agc@agc-cert.com

Service Hotline:400 089 2118

Radiated Power Measurement Results-2W		
Channel Separation	Channel	Measurement Result (dBm)
		For 33dBm(2W)
12.5 KHz	Bottom(400.025MHz)	32.26
	Middle(453.225MHz)	32.24
	Middle(454.025MHz)	32.20
	Top (469.975MHz )	<b>32.31</b>

Date + voice:

Conducted Power Measurement Results-0.5W		
Channel Separation	Channel	Measurement Result (dBm)
		For 26.99dBm(0.5W)
12.5 KHz	Bottom(400.025MHz)	26.68
	Middle(453.225MHz)	<b>26.77</b>
	Middle(454.025MHz)	26.65
	Top (469.975MHz )	26.72

Radiated Power Measurement Results-0.5W		
Channel Separation	Channel	Measurement Result (dBm)
		For 26.99dBm(0.5W)
12.5 KHz	Bottom(400.025MHz)	26.55
	Middle(453.225MHz)	26.63
	Middle(454.025MHz)	26.59
	Top (469.975MHz )	<b>26.65</b>



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Date transmission mode:

Conducted Power Measurement Results-0.5W		
Channel Separation	Channel	Measurement Result (dBm)
		For 26.99dBm(0.5W)
12.5 KHz	Bottom(400.025MHz)	26.61
	Middle(453.225MHz)	<b>26.69</b>
	Middle(454.025MHz)	26.62
	Top (469.975MHz )	26.68

Radiated Power Measurement Results-0.5W		
Channel Separation	Channel	Measurement Result (dBm)
		For 26.99dBm(0.5W)
12.5 KHz	Bottom(400.025MHz)	26.51
	Middle(453.225MHz)	26.54
	Middle(454.025MHz)	<b>26.57</b>
	Top (469.975MHz )	26.55



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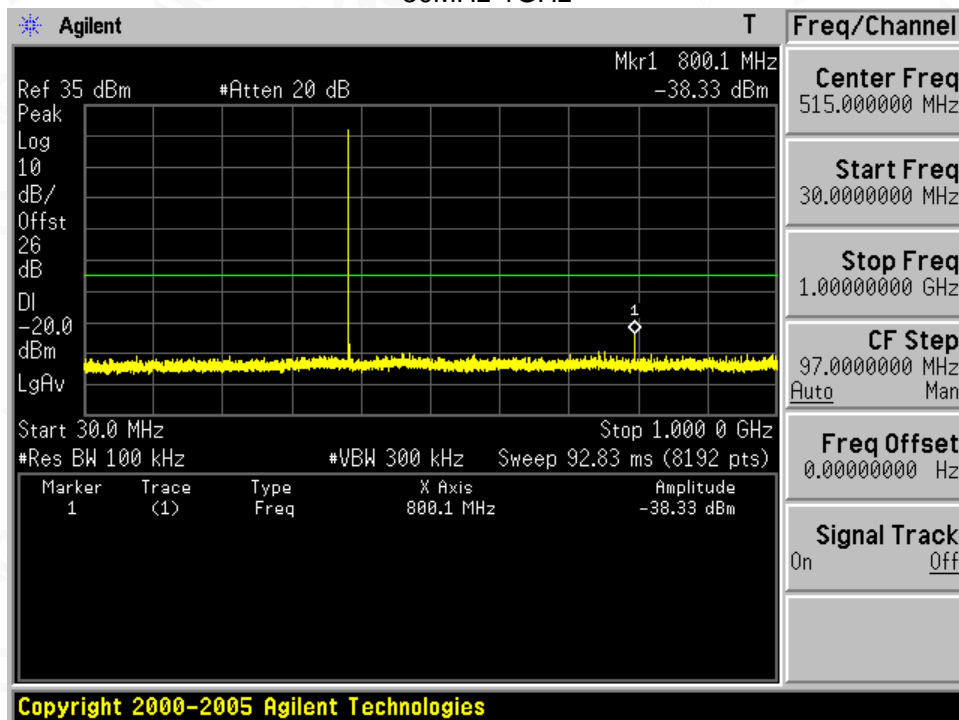
Service Hotline:400 089 2118

## 10.5 CONDUCT SPURIOUS PLOT

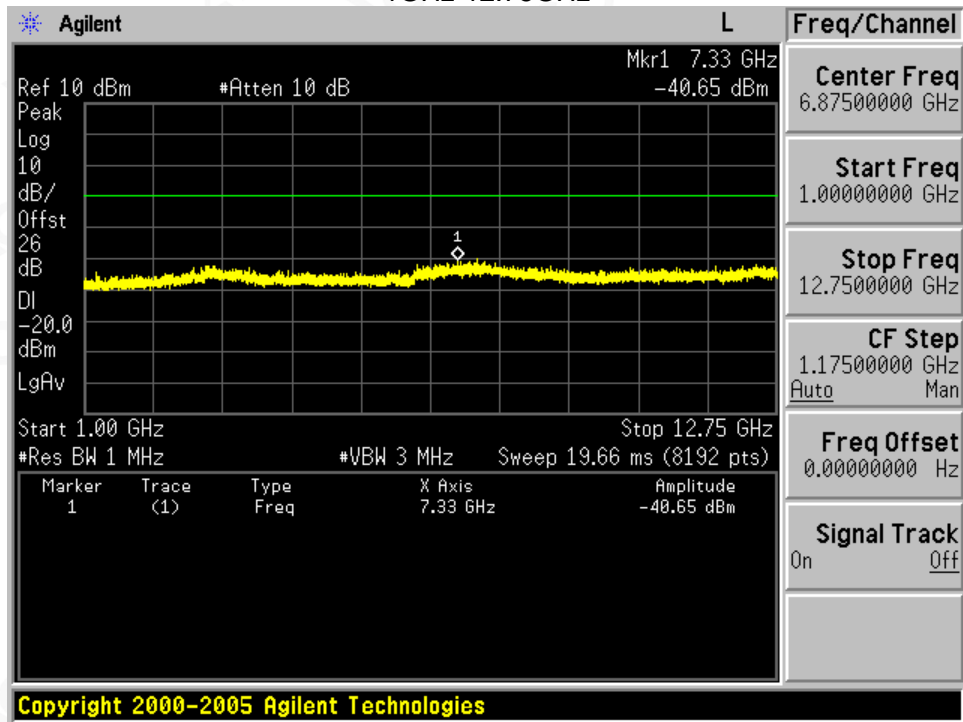
UHF:

Analog:

**Conducted Spurious Emission (worst) @ 400.025MHz With 12.5 KHz Channel Separation-0.5W**  
30MHz-1GHz



**Conduct Spurious Emission (worst) @ 400.025MHz With 12.5 KHz Channel Separation-0.5W**  
1GHz-12.75GHz



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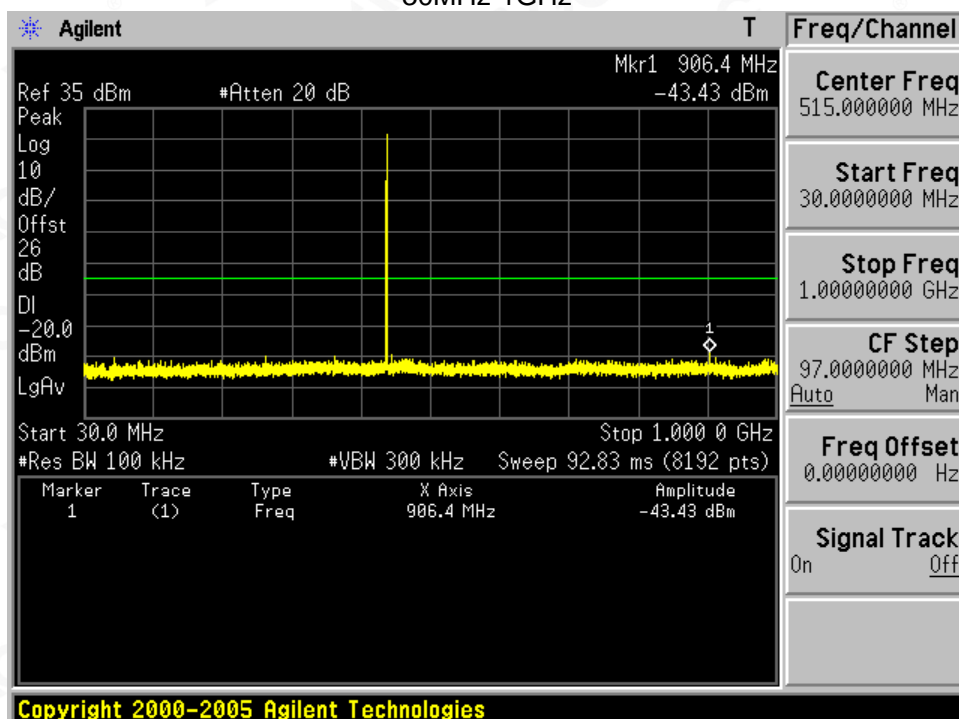
Add: 2/F., Building 2, No.1-4, Chaxi Sanwei Technial Industrial Park, Gushu, Xixiang, Bao'an District, Shenzhen, Guangdong, China

Tel: +86-755 2523 4088

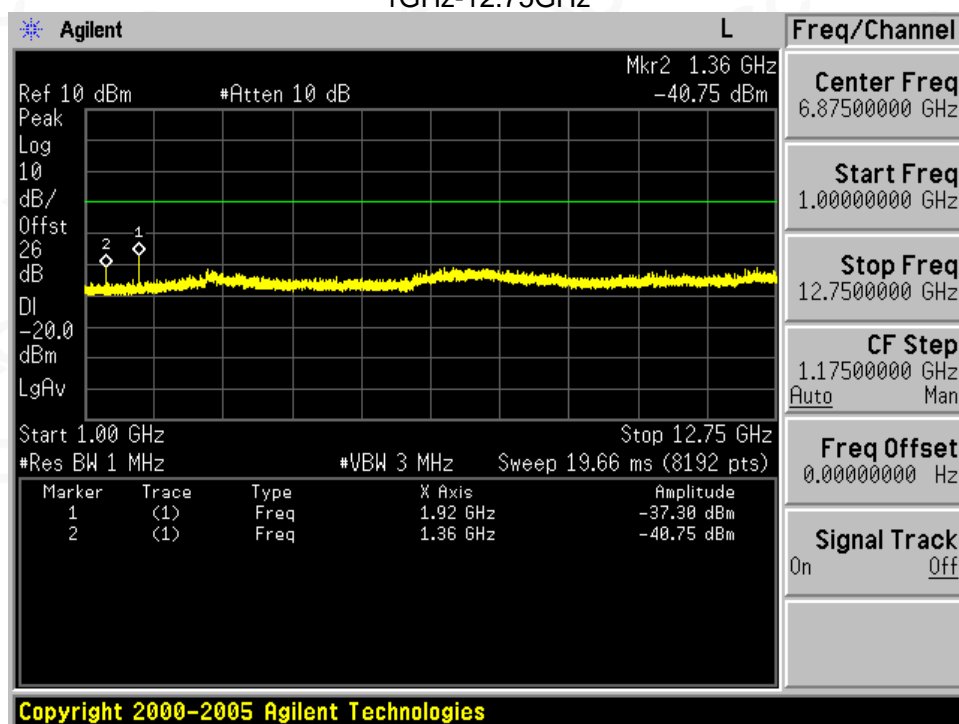
E-mail: agc@agc-cert.com

Service Hotline:400 089 2118

**Conducted Spurious Emission (worst) @ 453.225MHz With 12.5 KHz Channel Separation-0.5W**  
30MHz-1GHz



**Conduct Spurious Emission (worst) @ 453.225MHz With 12.5 KHz Channel Separation-0.5W**  
1GHz-12.75GHz

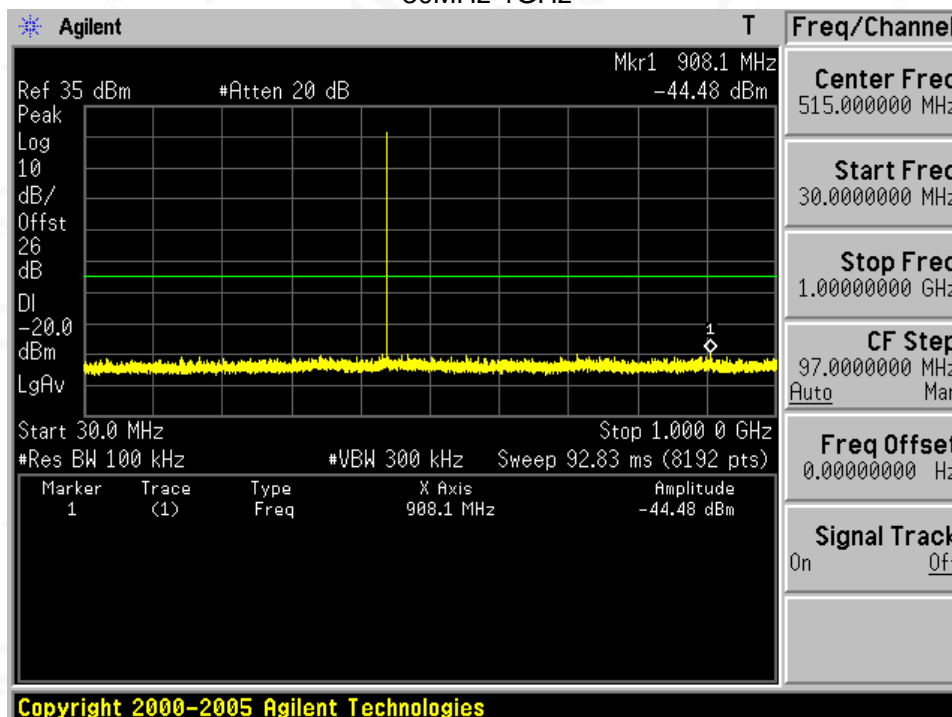


Attestation of Global Compliance(Shenzhen)Co.,Ltd.

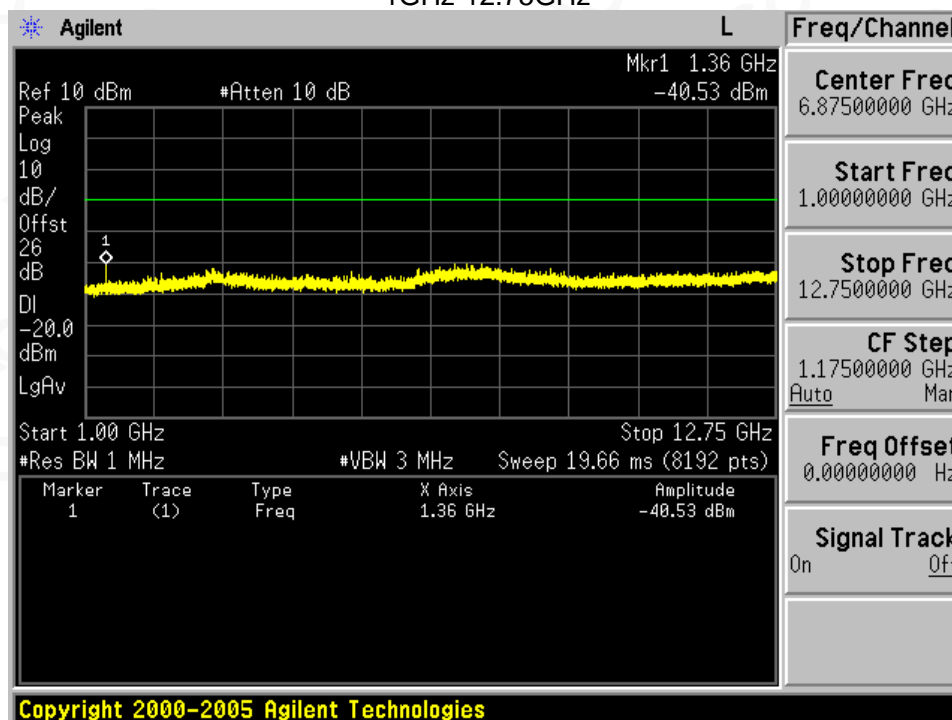
Add: 2/F., Building 2, No.1-4, Chaxi Sanwei Technial Industrial Park, Gushu,  
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**Conducted Spurious Emission (worst) @ 454.025MHz With 12.5 KHz Channel Separation-0.5W**  
30MHz-1GHz



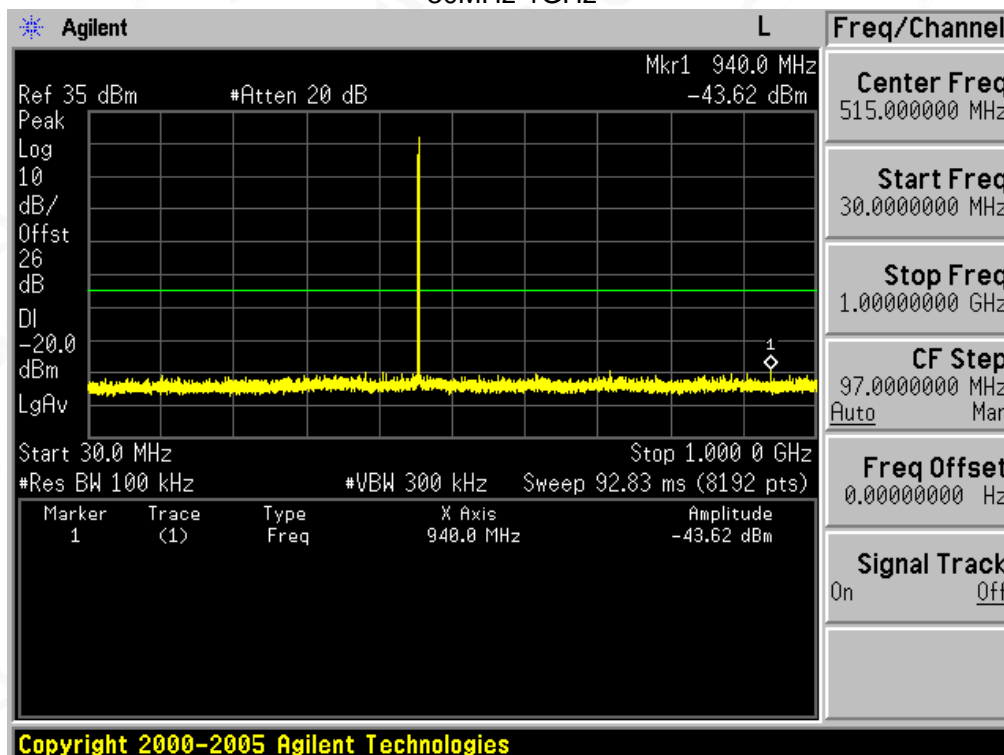
**Conduct Spurious Emission (worst) @ 454.025MHz With 12.5 KHz Channel Separation-0.5W**  
1GHz-12.75GHz



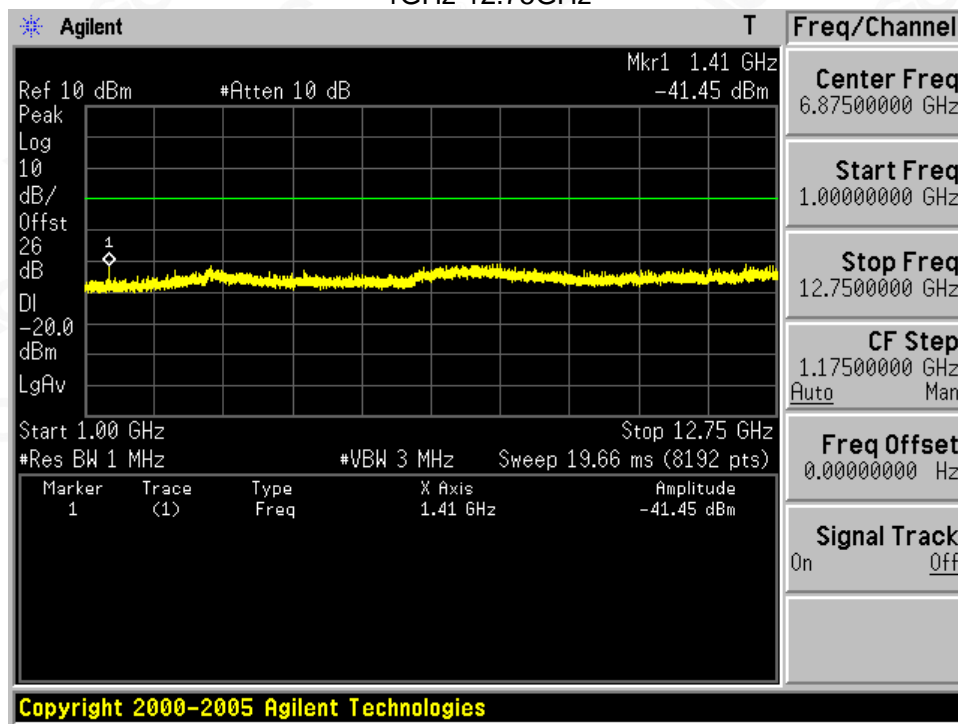
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**Conducted Spurious Emission (worst) @ 469.975MHz With 12.5 KHz Channel Separation-0.5W**  
30MHz-1GHz



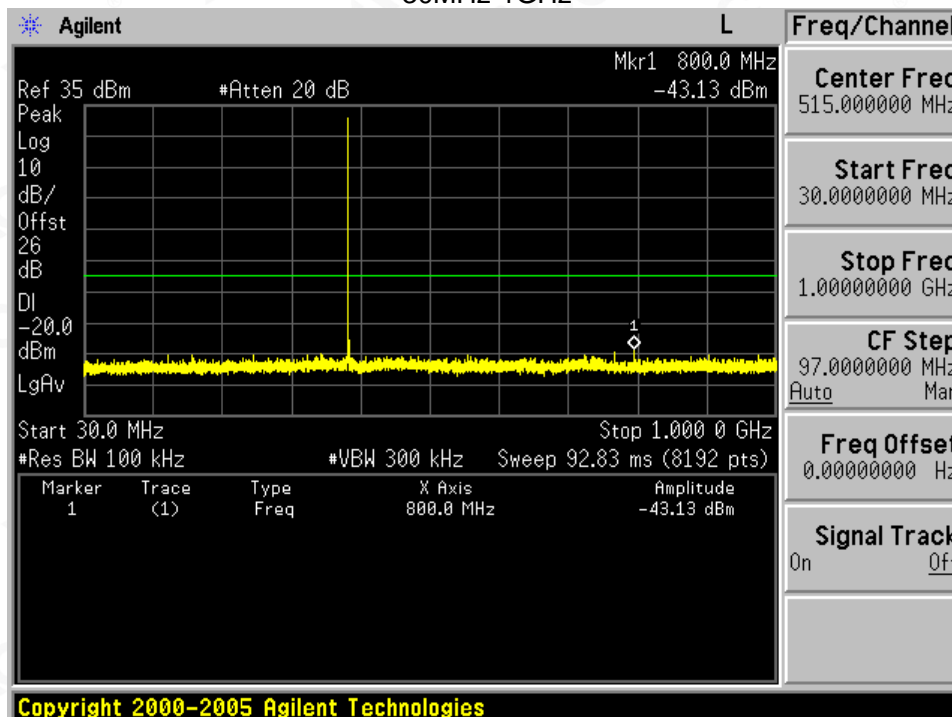
**Conduct Spurious Emission (worst) @ 469.975MHz With 12.5 KHz Channel Separation-0.5W**  
1GHz-12.75GHz



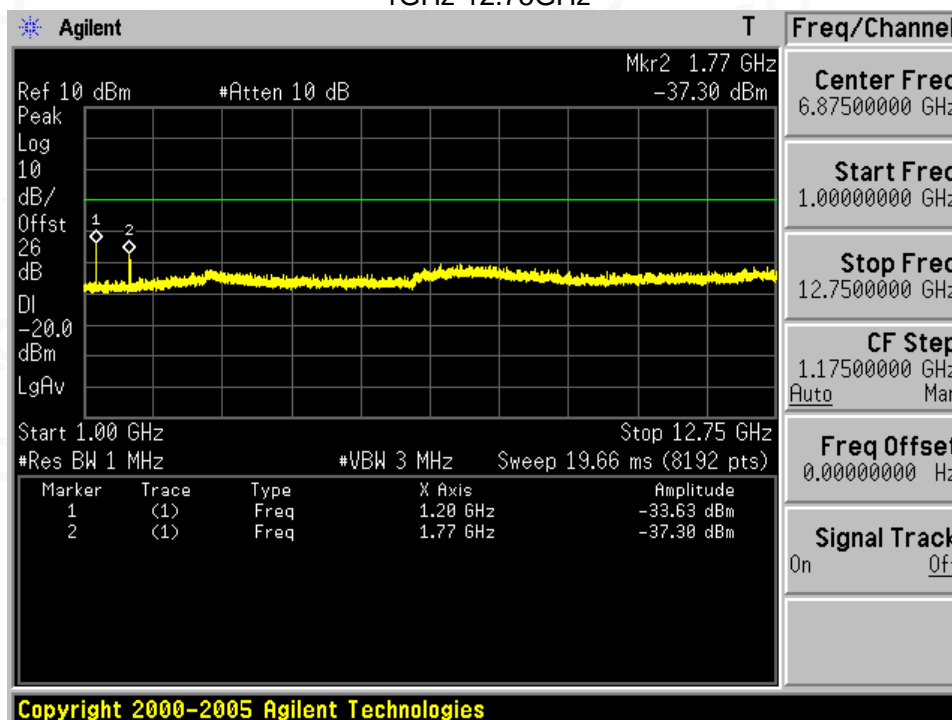
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**Conducted Spurious Emission (worst) @ 400.025MHz With 12.5 KHz Channel Separation-2W**  
30MHz-1GHz



**Conduct Spurious Emission (worst) @ 400.025MHz With 12.5 KHz Channel Separation-2W**  
1GHz-12.75GHz

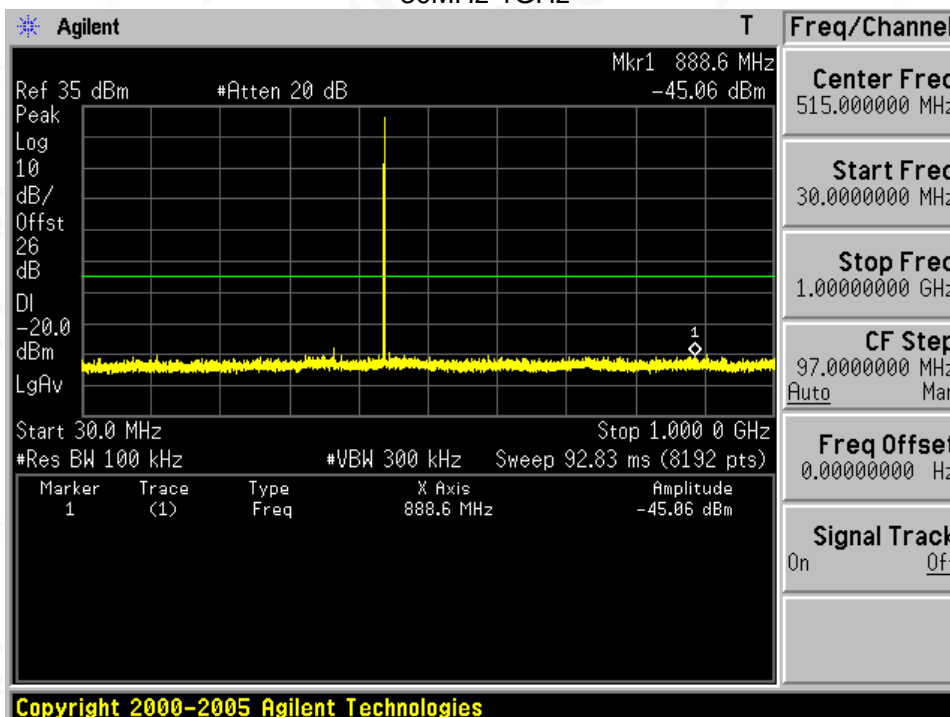


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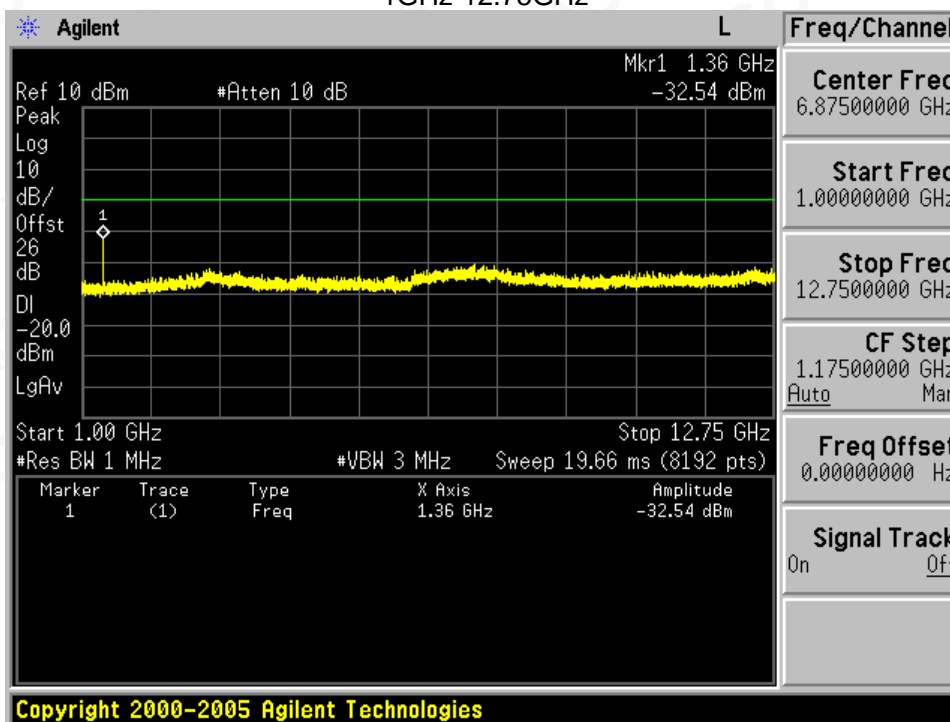
Add: 2/F., Building 2, No.1-4, Chaxi Sanwei Technial Industrial Park, Gushu,  
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**Conducted Spurious Emission (worst) @ 453.225MHz With 12.5 KHz Channel Separation-2W**  
30MHz-1GHz



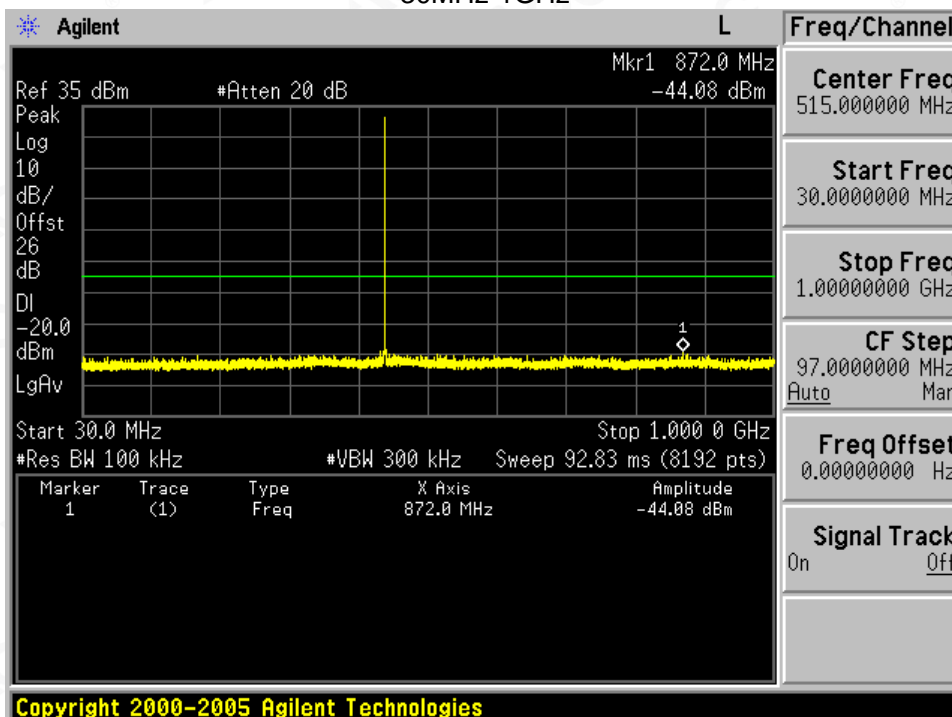
**Conduct Spurious Emission (worst) @ 453.225MHz With 12.5 KHz Channel Separation-2W**  
1GHz-12.75GHz



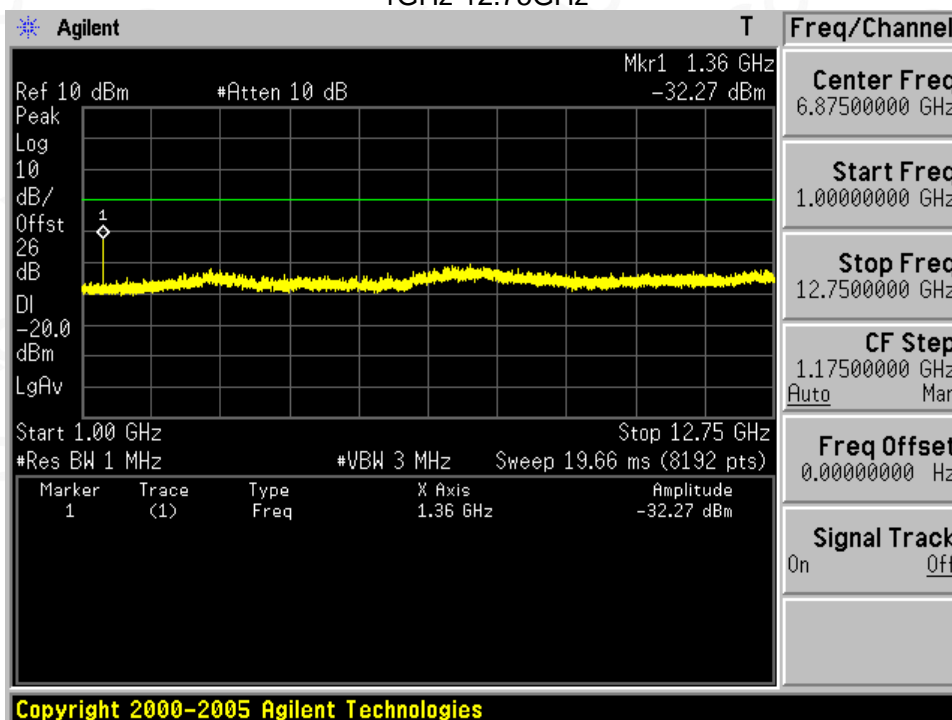
Attestation of Global Compliance(Shenzhen)Co.,Ltd.

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**Conducted Spurious Emission (worst) @ 454.025MHz With 12.5 KHz Channel Separation-2W**  
30MHz-1GHz



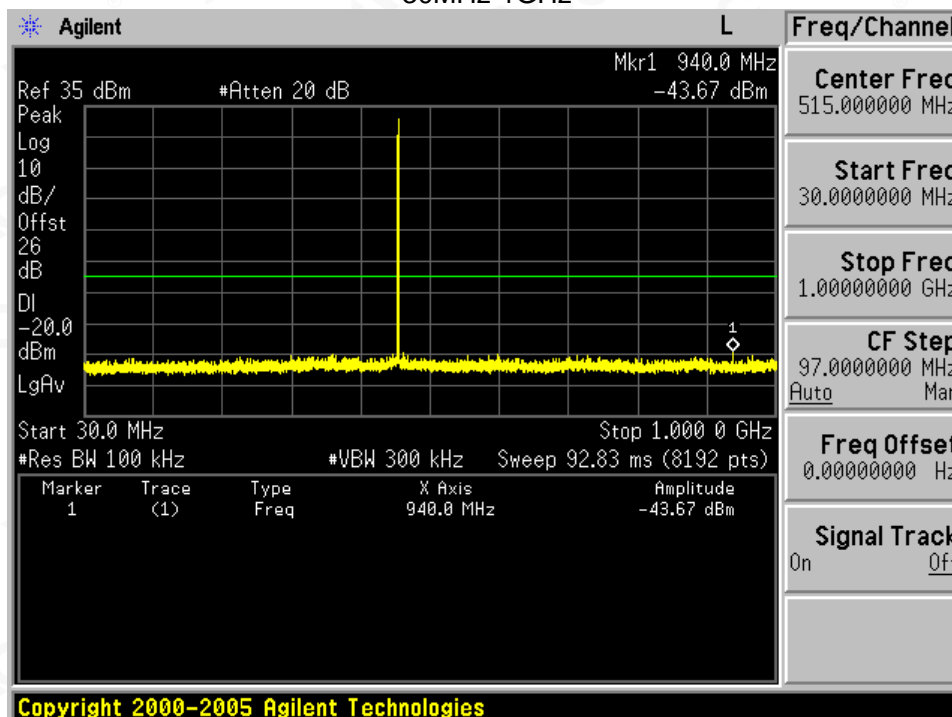
**Conduct Spurious Emission (worst) @ 454.025MHz With 12.5 KHz Channel Separation-2W**  
1GHz-12.75GHz



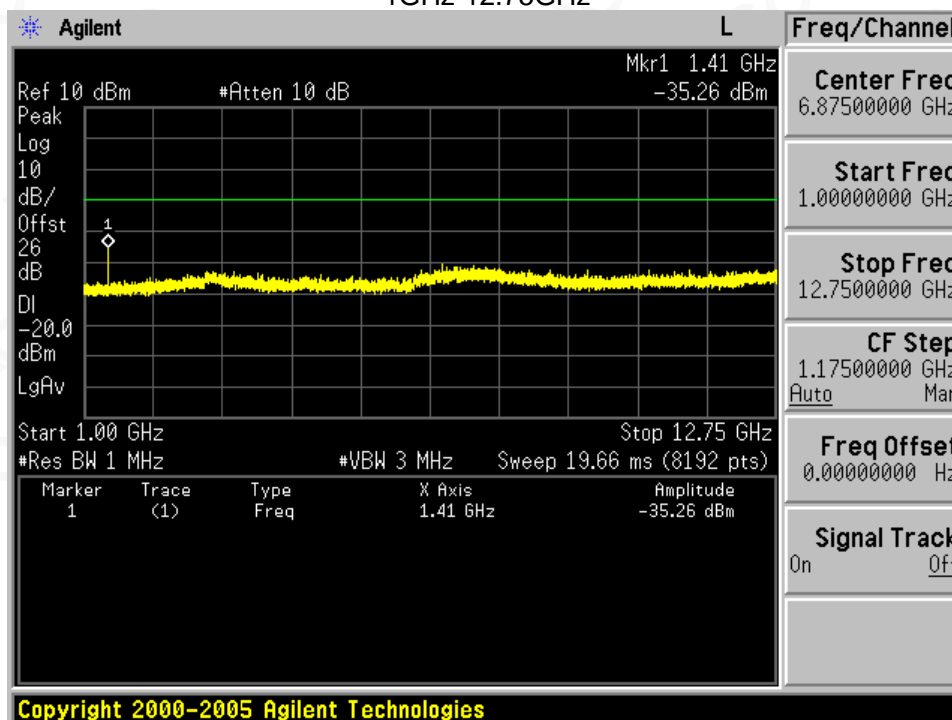
Attestation of Global Compliance(Shenzhen)Co.,Ltd.

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**Conducted Spurious Emission (worst) @ 469.975MHz With 12.5 KHz Channel Separation-2W**  
30MHz-1GHz



**Conduct Spurious Emission (worst) @ 469.975MHz With 12.5 KHz Channel Separation-2W**  
1GHz-12.75GHz



Note: All the test frequencies was tested, but only the worst data be recorded in this part.

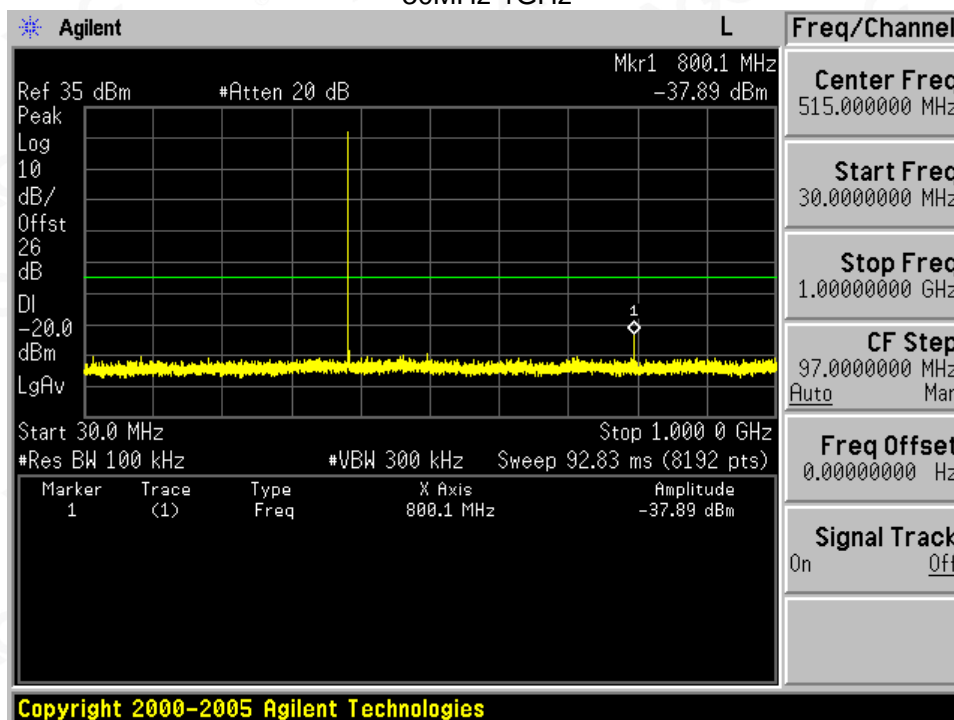


Attestation of Global Compliance(Shenzhen)Co.,Ltd.

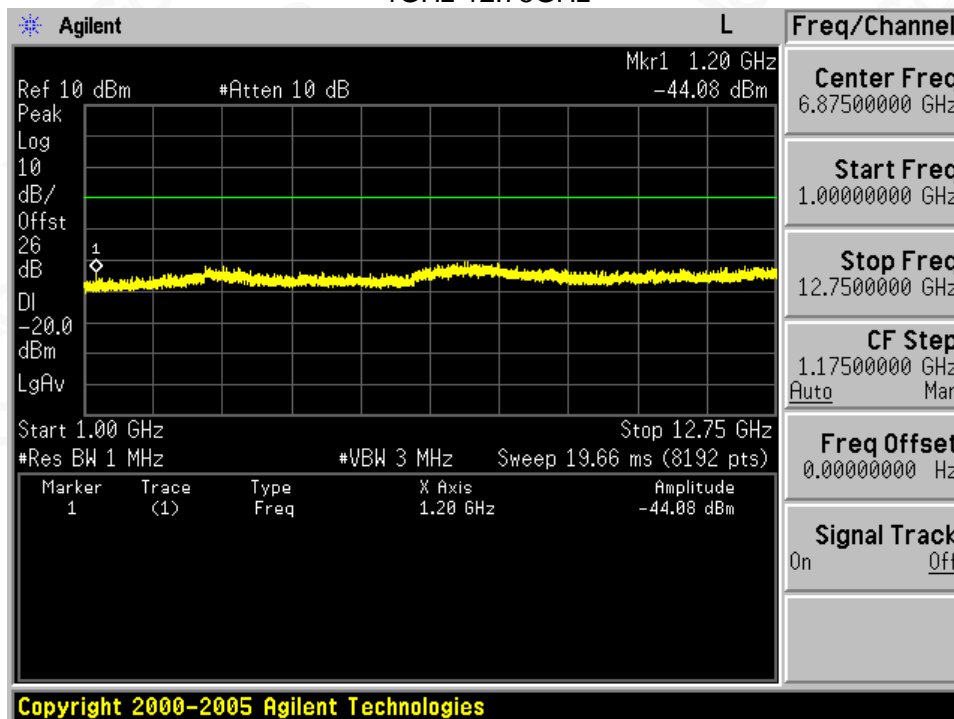
Add: 2/F., Building 2, No.1-4, Chaxi Sanwei Technial Industrial Park, Gushu,  
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**Digital:**

**Conducted Spurious Emission (worst) @400.025MHz With 12.5 KHz Channel Separation-0.5W**  
30MHz-1GHz



**Conduct Spurious Emission (worst) @ 400.025MHz With 12.5 KHz Channel Separation-0.5W**  
1GHz-12.75GHz



Attestation of Global Compliance(Shenzhen)Co.,Ltd.

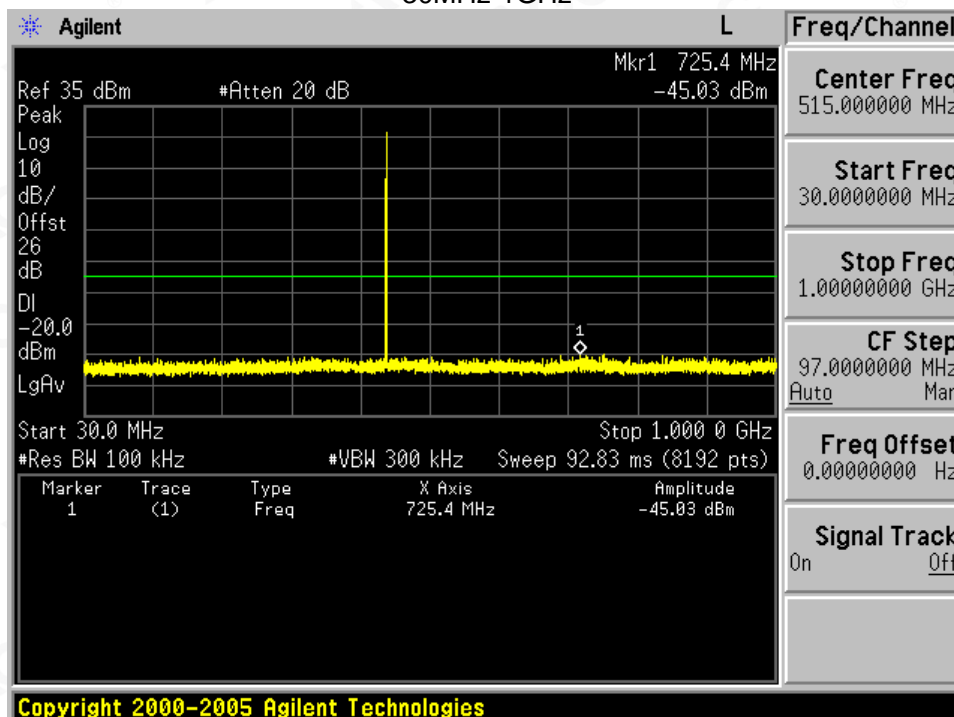
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Tel: +86-755 2523 4088

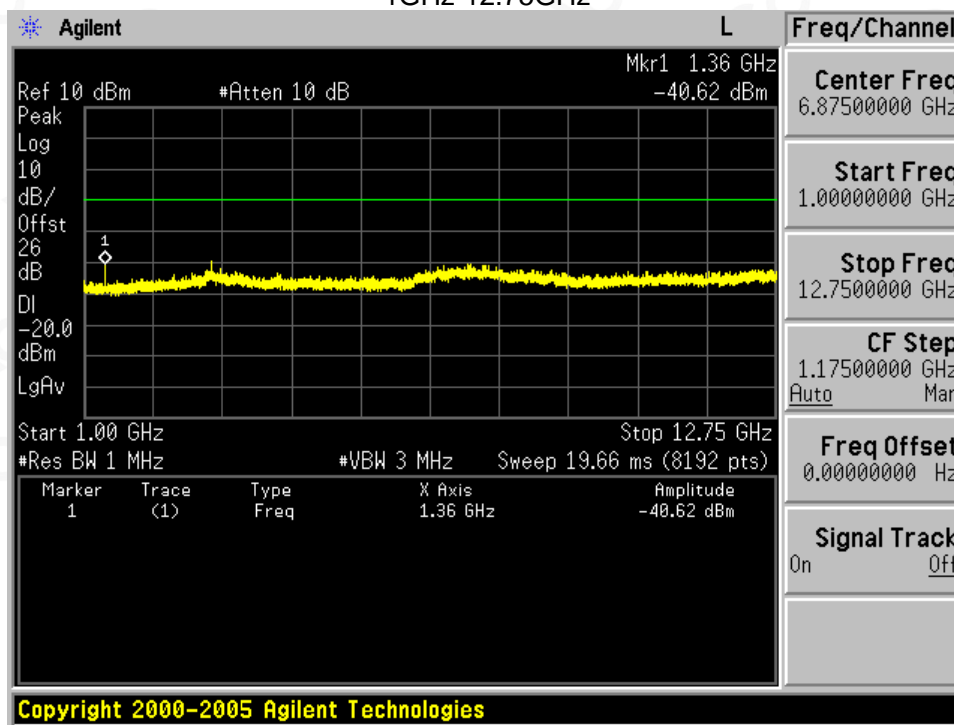
E-mail: agc@agc-cert.com

Service Hotline:400 089 2118

**Conducted Spurious Emission (worst) @ 453.225MHz With 12.5 KHz Channel Separation-0.5W**  
30MHz-1GHz



**Conduct Spurious Emission (worst) @ 453.225MHz With 12.5 KHz Channel Separation-0.5W**  
1GHz-12.75GHz

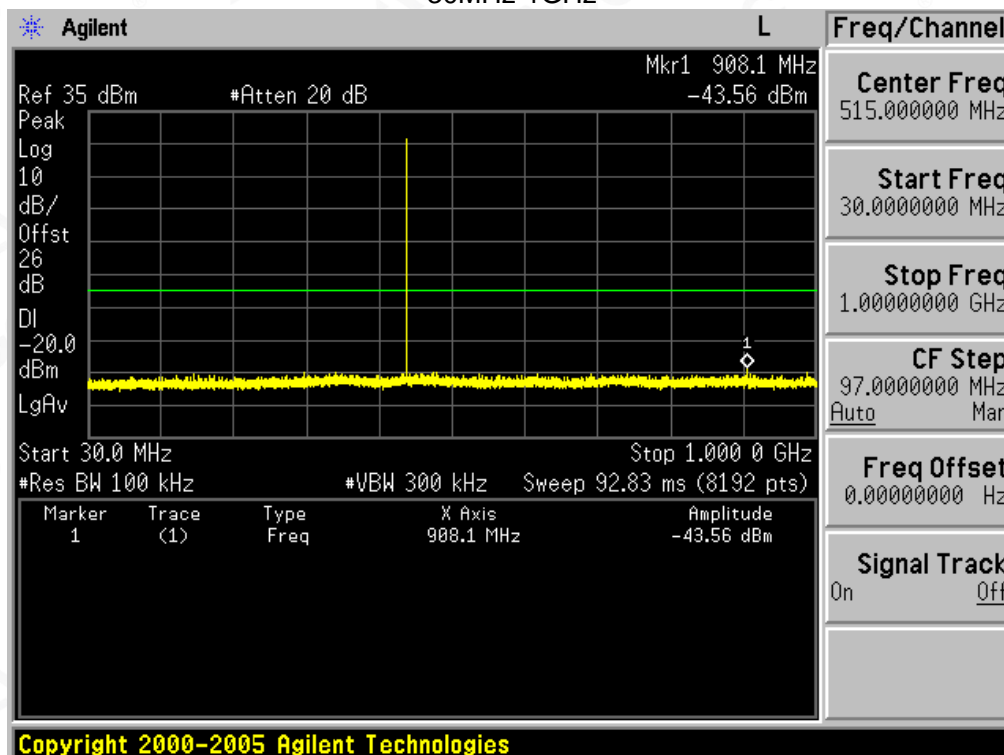


Attestation of Global Compliance(Shenzhen)Co.,Ltd.

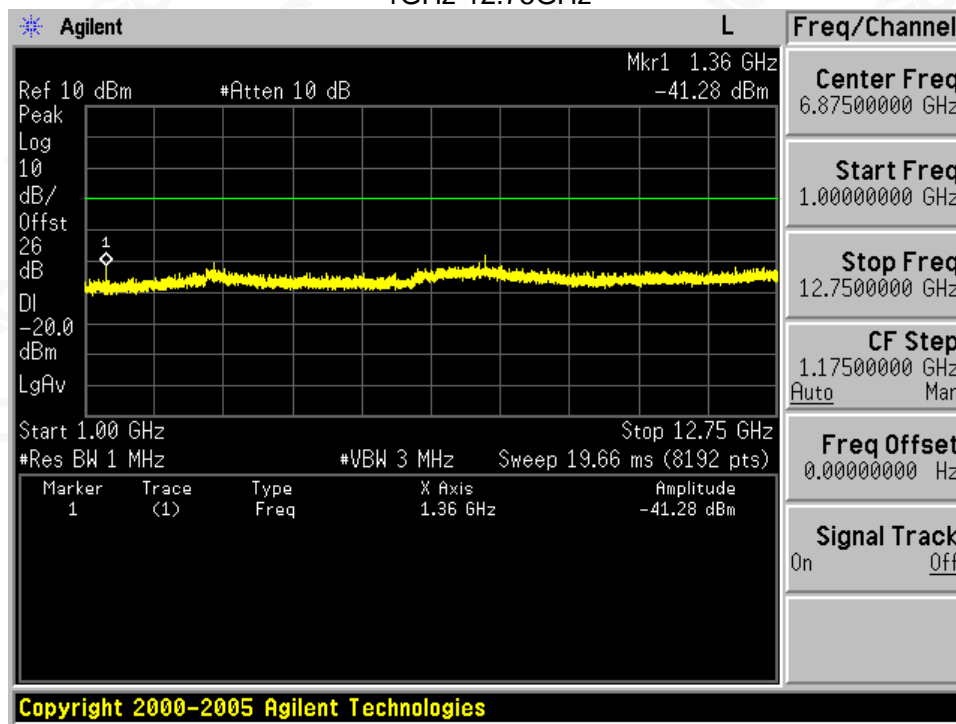
Add: 2/F., Building 2, No.1-4, Chaxi Sanwei Technial Industrial Park, Gushu,  
Xixiang, Bao'an District, Shenzhen, Guangdong, China  
Tel: +86-755 2523 4088 E-mail: agc@agc-cert.com Service Hotline:400 089 2118



**Conducted Spurious Emission (worst) @ 454.025MHz With 12.5 KHz Channel Separation-0.5W**  
30MHz-1GHz



**Conduct Spurious Emission (worst) @ 454.025MHz With 12.5 KHz Channel Separation-0.5W**  
1GHz-12.75GHz



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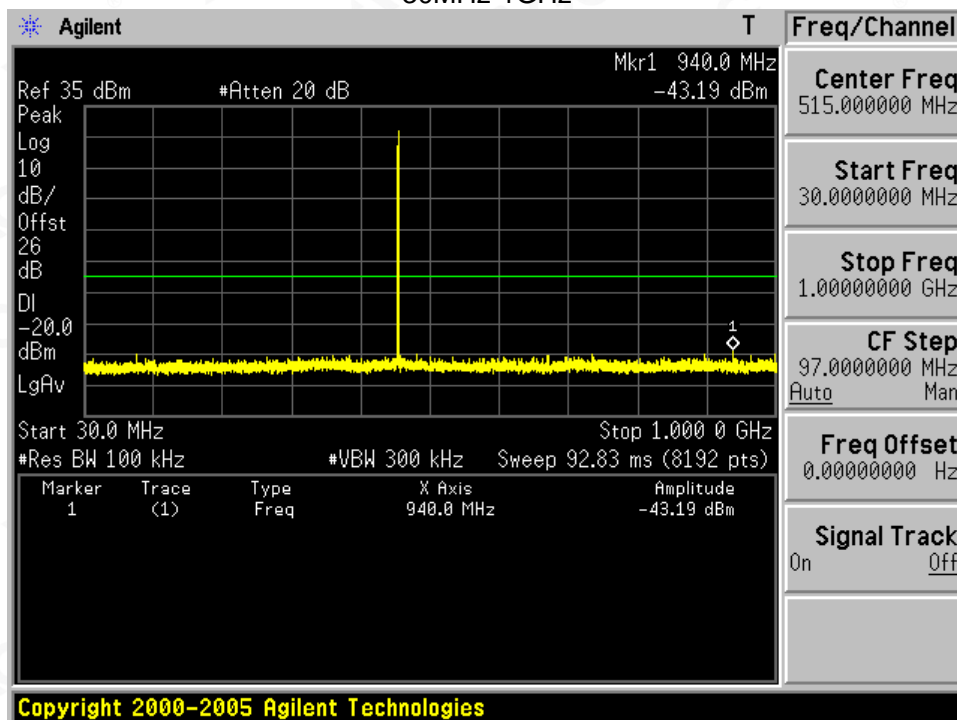
Add: 2/F., Building 2, No.1-4, Chaxi Sanwei Technial Industrial Park, Gushu,  
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Tel: +86-755 2523 4088

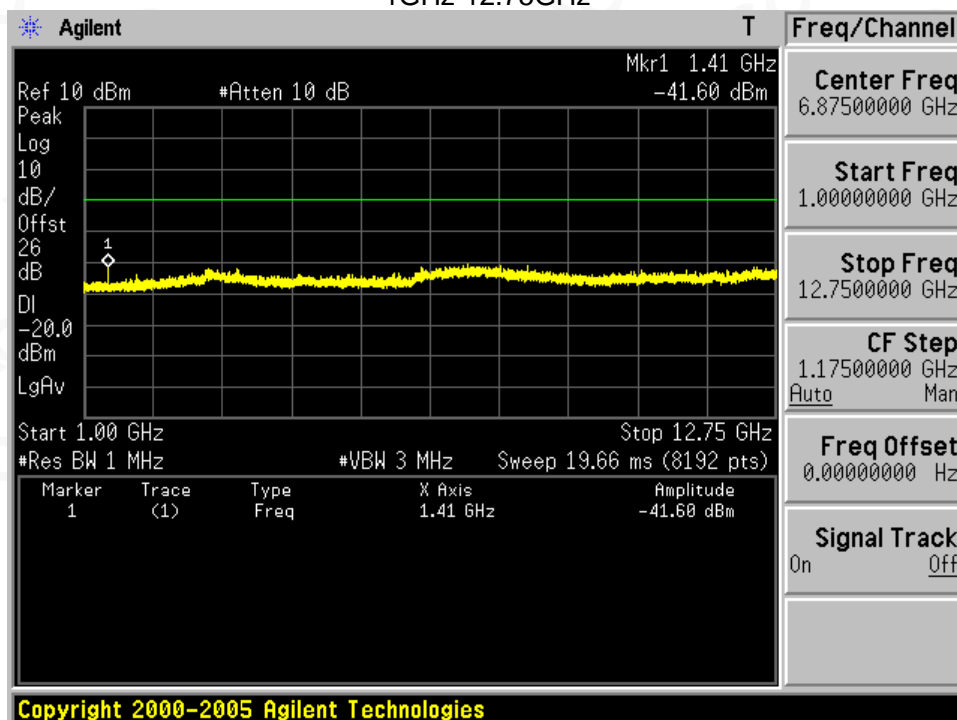
E-mail: agc@agc-cert.com

Service Hotline:400 089 2118

**Conducted Spurious Emission (worst) @ 469.975 MHz With 12.5 KHz Channel Separation-0.5W**  
30MHz-1GHz



**Conduct Spurious Emission (worst) @ 469.975 MHz With 12.5 KHz Channel Separation-0.5W**  
1GHz-12.75GHz



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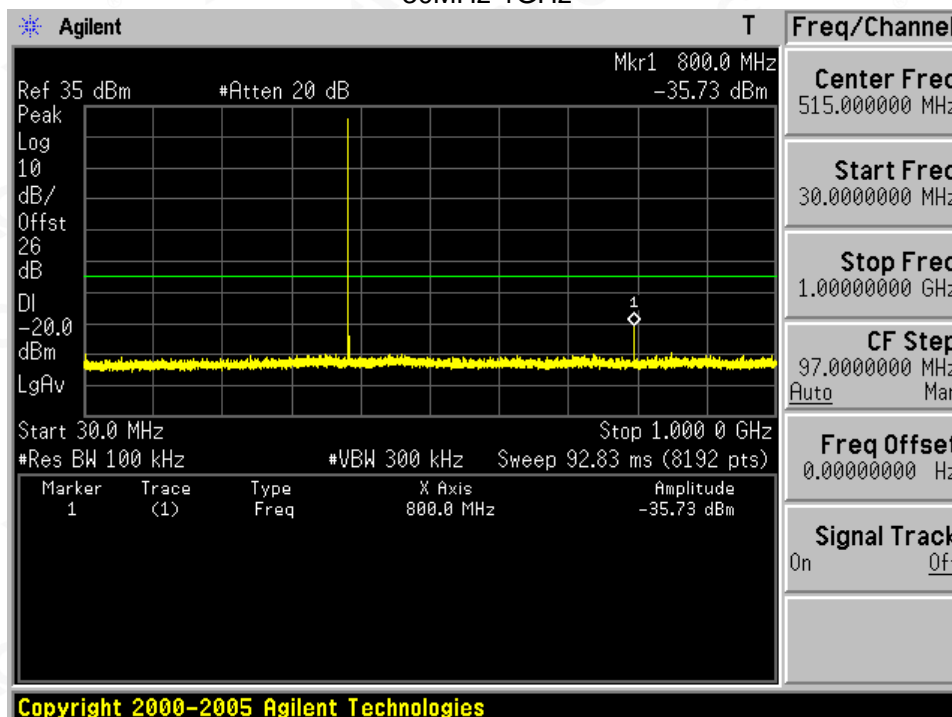
Add: 2/F., Building 2, No.1-4, Chaxi Sanwei Technial Industrial Park, Gushu,  
Xixiang, Bao'an District, Shenzhen, Guangdong, China

Tel: +86-755 2523 4088

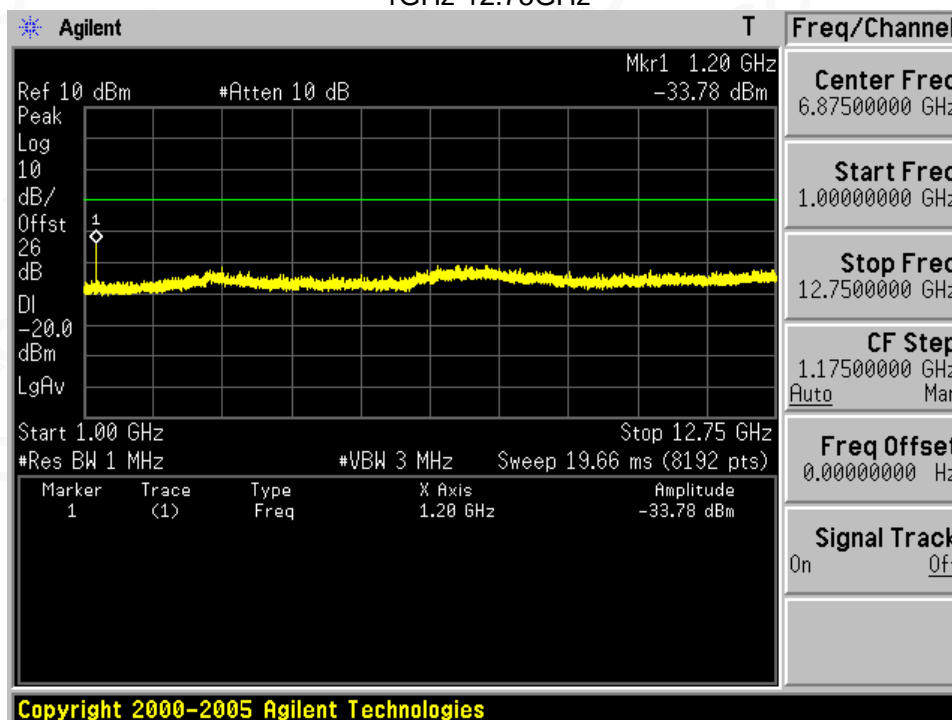
E-mail: agc@agc-cert.com

Service Hotline:400 089 2118

**Conducted Spurious Emission (worst) @ 400.025MHz MHz With 12.5 KHz Channel Separation-2W**  
30MHz-1GHz



**Conduct Spurious Emission (worst) @ 400.025MHz MHz With 12.5 KHz Channel Separation-2W**  
1GHz-12.75GHz



Attestation of Global Compliance(Shenzhen)Co.,Ltd.

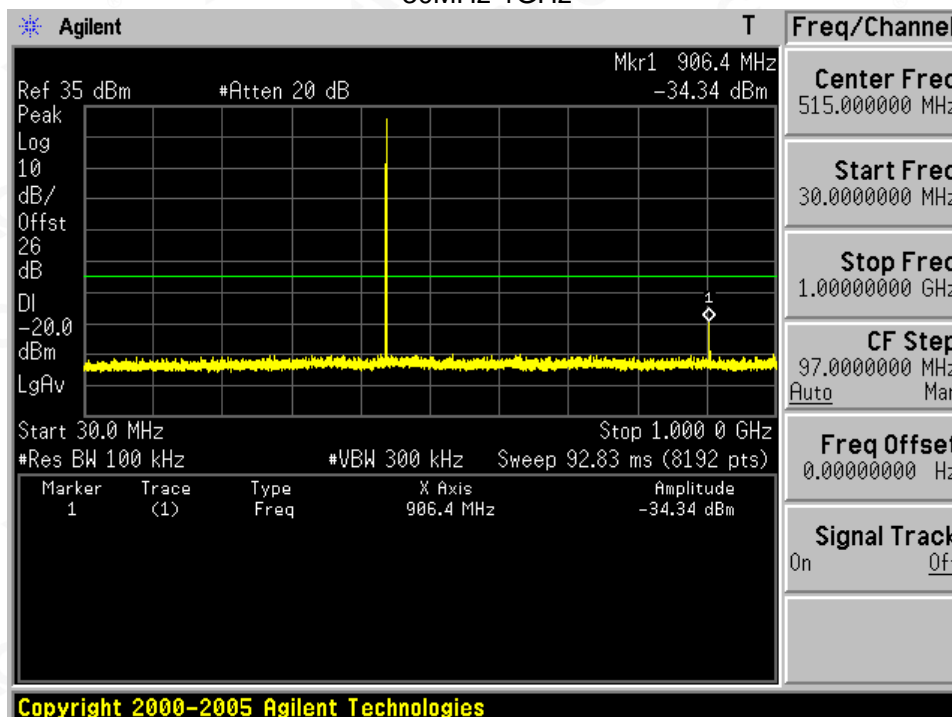
Add: 2/F., Building 2, No.1-4, Chaxi Sanwei Technial Industrial Park, Gushu,  
Xixiang, Bao'an District, Shenzhen, Guangdong, China

Tel: +86-755 2523 4088

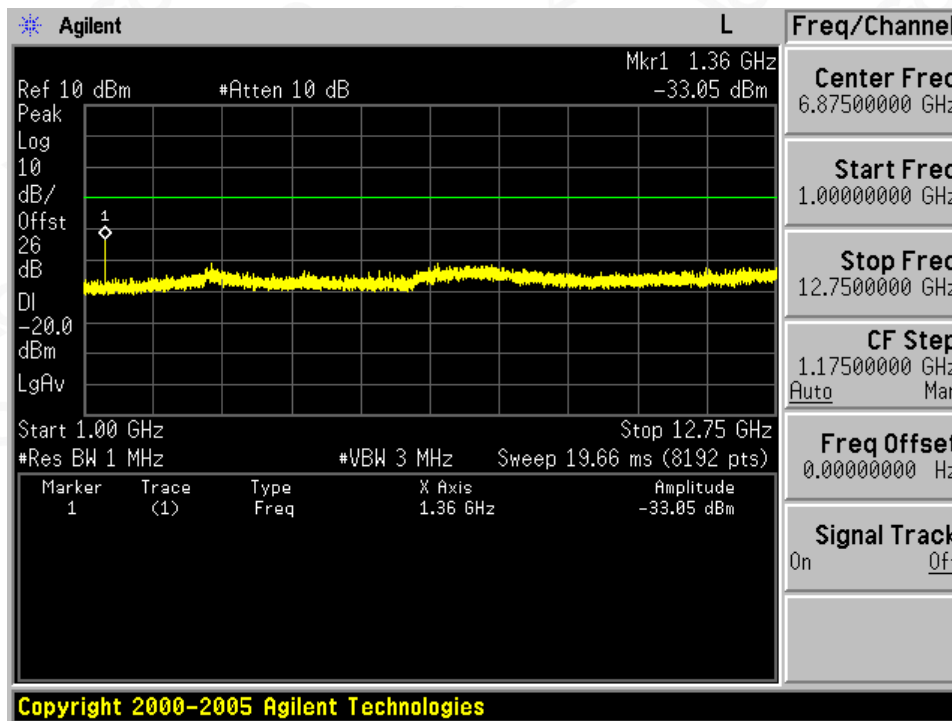
E-mail: agc@agc-cert.com

Service Hotline:400 089 2118

**Conducted Spurious Emission (worst) @ 453.225MHz With 12.5 KHz Channel Separation-2W**  
30MHz-1GHz



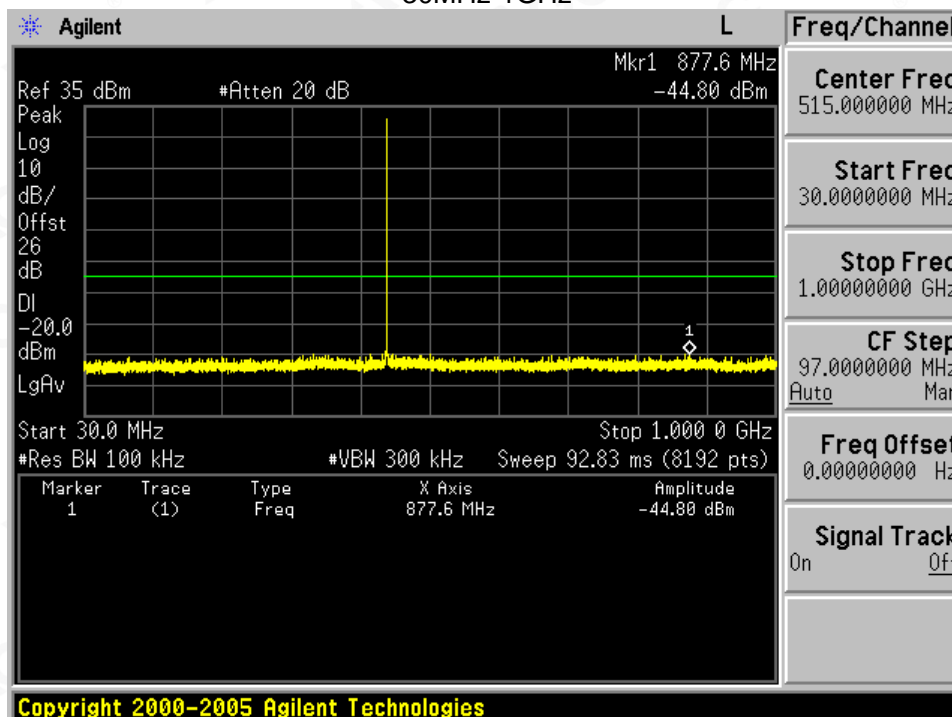
**Conduct Spurious Emission (worst) @ 453.225MHz With 12.5 KHz Channel Separation-2W**  
1GHz-12.75GHz



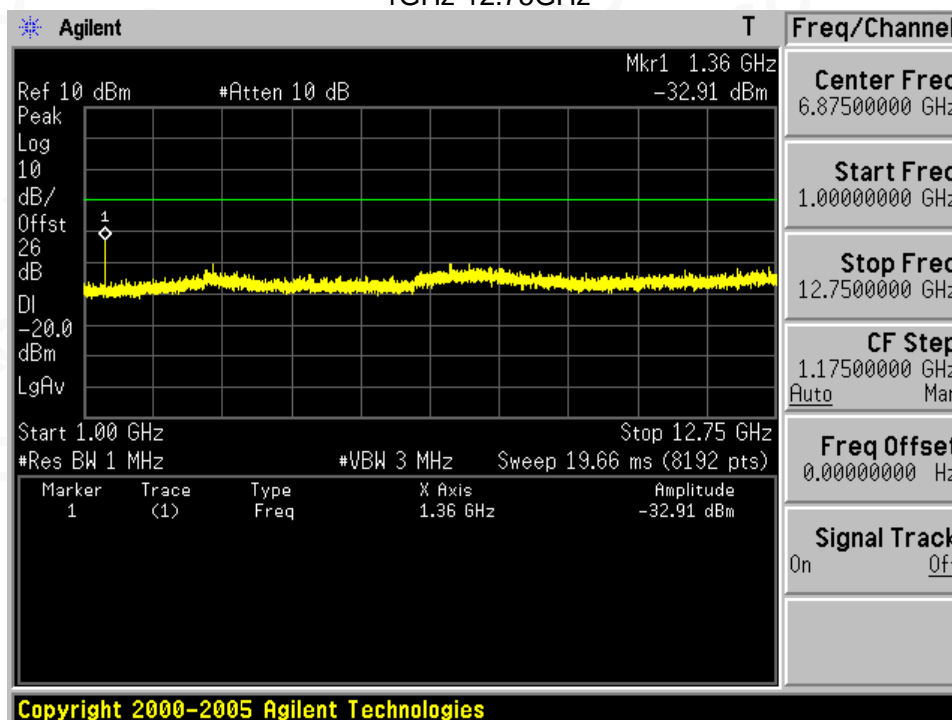
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**Conducted Spurious Emission (worst) @ 454.025MHz With 12.5 KHz Channel Separation-2W**  
30MHz-1GHz



**Conduct Spurious Emission (worst) @ 454.025MHz With 12.5 KHz Channel Separation-2W**  
1GHz-12.75GHz

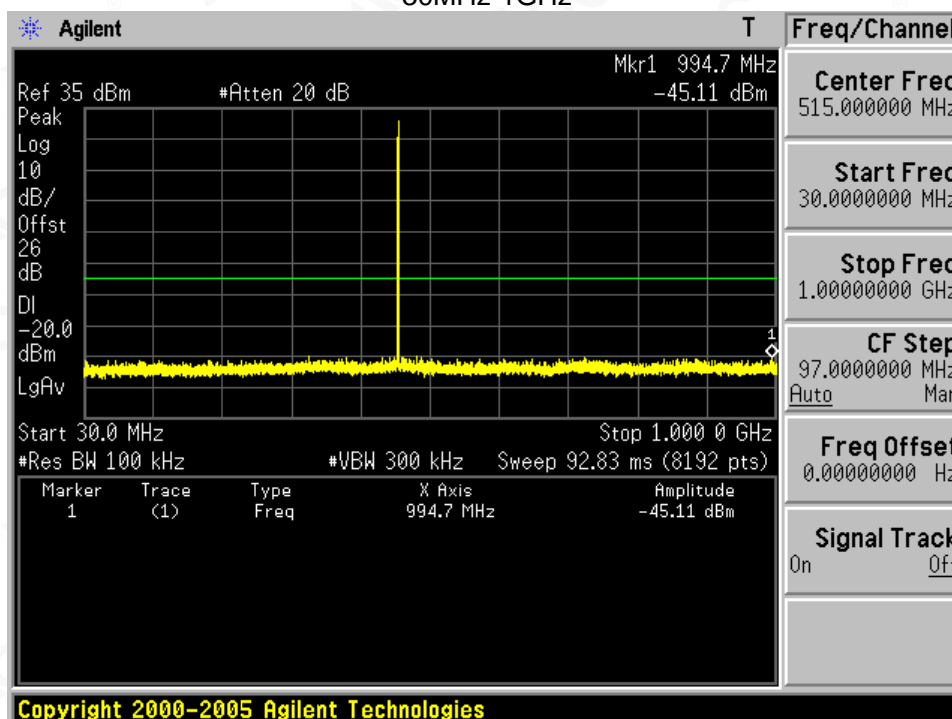


Attestation of Global Compliance(Shenzhen)Co.,Ltd.

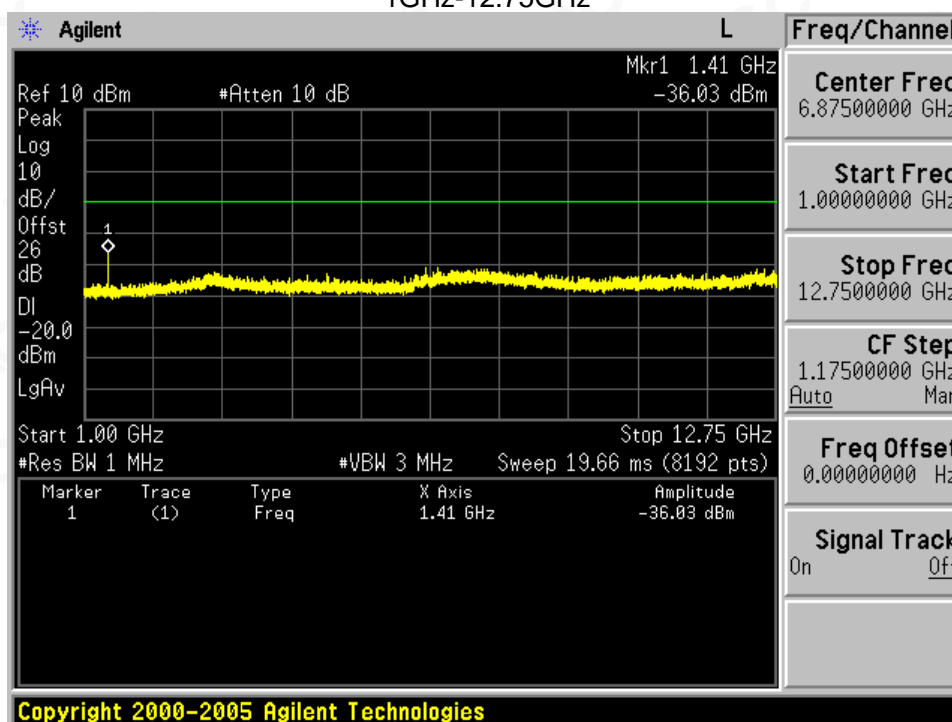
Add: 2/F., Building 2, No.1-4, Chaxi Sanwei Technial Industrial Park, Gushu,  
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**Conducted Spurious Emission (worst) @ 469.975MHz With 12.5 KHz Channel Separation-2W**  
30MHz-1GHz



**Conduct Spurious Emission (worst) @ 469.975MHz With 12.5 KHz Channel Separation2W**  
1GHz-12.75GHz



Note: All the test frequencies was tested, but only the worst data be recorded in this part.



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## 11. TRANSMITTER FREQUENCY BEHAVIOR

### 11.1 PROVISIONS APPLICABLE

FCC §90.214

Time intervals <sup>1, 2</sup>	Maximum frequency difference <sup>3</sup>	All equipment	
		150 to 174 MHz	421 to 512 MHz
Transient Frequency Behavior for Equipment Designed to Operate on 25 kHz Channels			
t <sub>1</sub> <sup>4</sup> .....	± 25.0 kHz	5.0 ms	10.0 ms
t <sub>2</sub> .....	± 12.5 kHz	20.0 ms	25.0 ms
t <sub>3</sub> <sup>4</sup> .....	± 25.0 kHz	5.0 ms	10.0 ms
Transient Frequency Behavior for Equipment Designed to Operate on 12.5 kHz Channels			
t <sub>1</sub> <sup>4</sup> .....	± 12.5 kHz	5.0 ms	10.0 ms
t <sub>2</sub> .....	± 6.25 kHz	20.0 ms	25.0 ms
t <sub>3</sub> <sup>4</sup> .....	± 12.5 kHz	5.0 ms	10.0 ms
Transient Frequency Behavior for Equipment Designed to Operate on 6.25 kHz Channels			
t <sub>1</sub> <sup>4</sup> .....	± 6.25 kHz	5.0 ms	10.0 ms
t <sub>2</sub> .....	± 3.125 kHz	20.0 ms	25.0 ms
t <sub>3</sub> <sup>4</sup> .....	± 6.25 kHz	5.0 ms	10.0 ms

<sup>1</sup>  $t_{off}$  is the instant when a 1 kHz test signal is completely suppressed, including any capture time due to phasing.

$t_1$  is the time period immediately following  $t_{off}$ .

$t_2$  is the time period immediately following  $t_1$ .

$t_3$  is the time period from the instant when the transmitter is turned off until  $t_{off}$ .

$t_{off}$  is the instant when the 1 kHz test signal starts to rise.

<sup>2</sup> During the time from the end of  $t_2$  to the beginning of  $t_3$ , the frequency difference must not exceed the limits specified in §90.213.

<sup>3</sup> Difference between the actual transmitter frequency and the assigned transmitter frequency.

<sup>4</sup> If the transmitter carrier output power rating is 6 watts or less, the frequency difference during this time period may exceed the maximum frequency difference for this time period.

### 11.2 TEST METHOD

TIA/EIA-603 2.2.19.3



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### 11.3 DESCRIBE LIMIT LINE OF RANSMITTER FREQUENCY BEHAVIOR

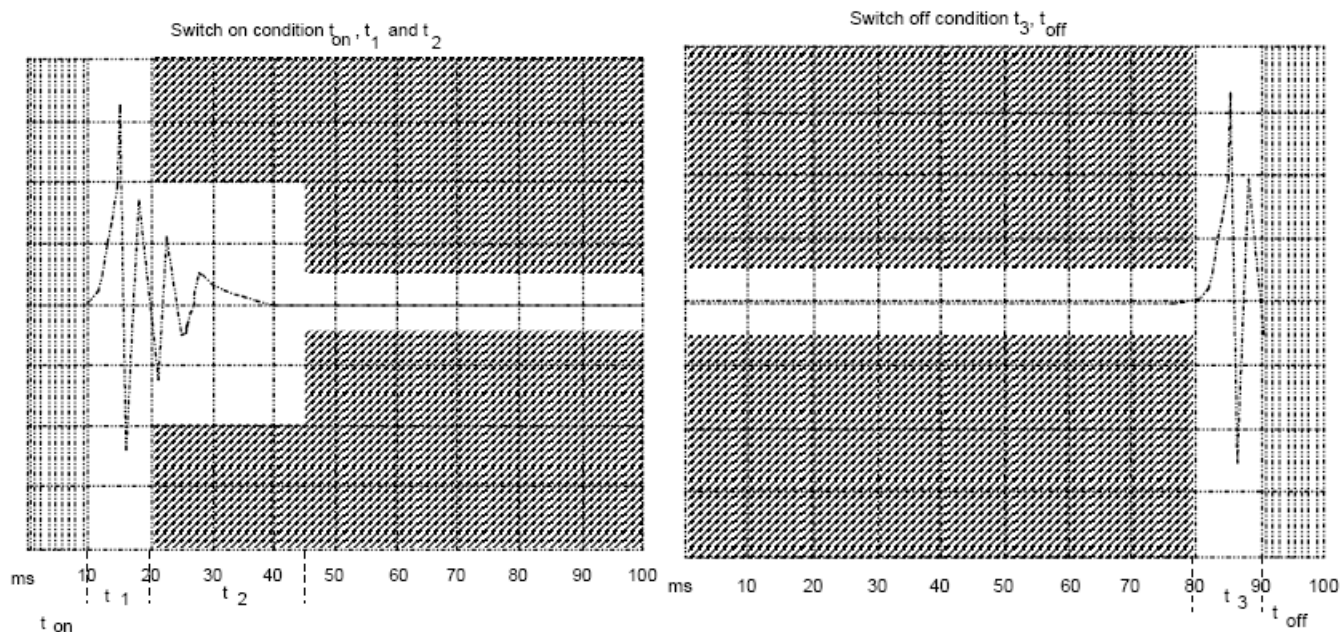
**ton:** The switch-on instant  $t_{on}$  of a transmitter is defined by the condition when the output power, measured at the antenna terminal, exceeds 0,1 % of the full output power (-30 dBc).

**t1:** period of time starting at  $t_{on}$  and finishing according to above 11.1

**t2:** period of time starting at the end of  $t_1$  and finishing according to above 11.1

**toff:** switch-off instant defined by the condition when the output power falls below 0,1 % of the full output power (-30 dBc).

**t3:** period of time that finishing at  $t_{off}$  and starting according to above 11.1



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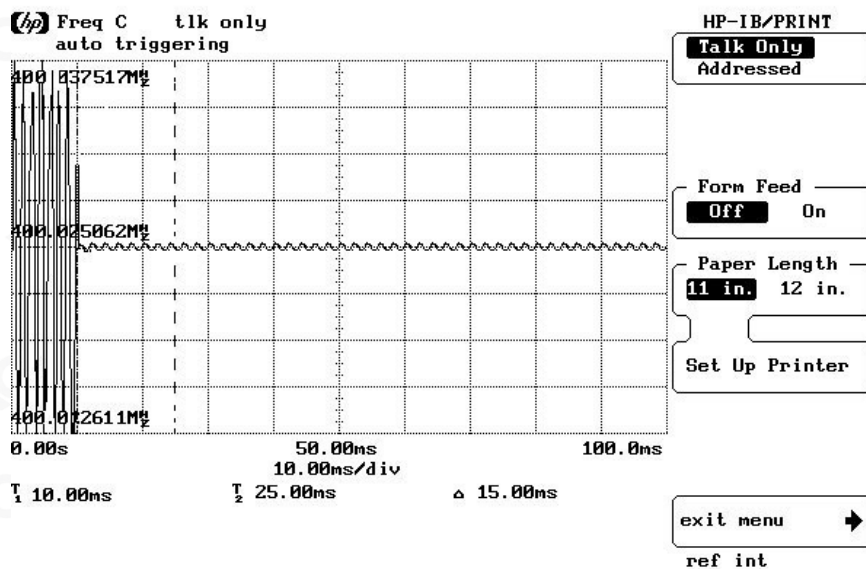
Service Hotline:400 089 2118



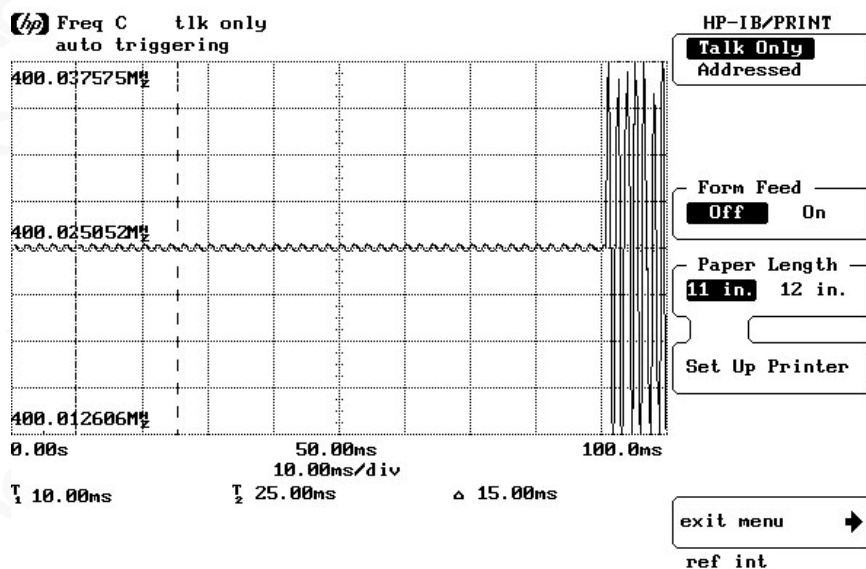
## 11.4 MEASURE RESULT

UHF:

Transmitter Frequency Behavior @ 12.5 KHz Channel Separation--Off to On



Transmitter Frequency Behavior @ 12.5 KHz Channel Separation--On to Off



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## 12. AUDIO LOW PASS FILTER RESPONSE

### 12.1.TEST LIMITS

**2.1047(a):** Voice modulated communication equipment. A curve or equivalent data showing the frequency response of the audio modulating circuit over a range of 100 to 5000 Hz shall be submitted. For equipment required to have an audio low-pass filter, a curve showing the frequency response of the filter or of all circuitry installed between the modulation limiter and the modulated stage shall be submitted.

**90.242(b)(8):** Recommended audio filter attenuation characteristics are given below:

Audio band	Minimum Attenuation Rel. to 1 KHz Attenuation
3 –20 KHz	$60 \log_{10}(f/3)$ dB where f is in KHz
20 – 30 KHz	50dB

### 12.2. METHOD OF MEASUREMENTS

The rated audio input signal was applied to the input of the audio low-pass filter (or of all modulation stages) using an audio oscillator, this input signal level and its corresponding output signal were then measured and recorded using the FFT Digital Spectrum Analyzer. Tests were repeated at different audio signal frequencies from 0 to 50 KHz.



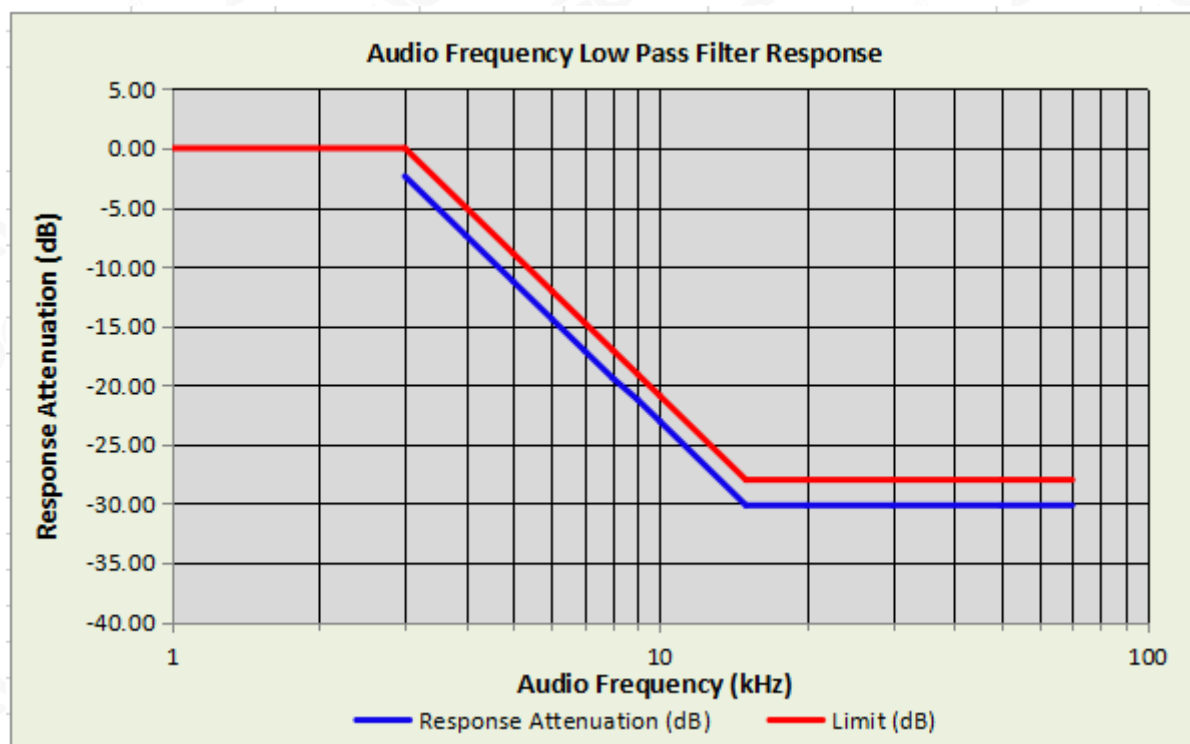


### 12.3.MEASURE RESULT

Analog:

12.5 KHZ CHANNEL SPACING, F3E, FREQUENCY OF ALL MODULATION STATES (TEST RESULT FOR UHF)-2W

Audio Frequency (kHz)	Response Attenuation (dB)	Limit (dB)
1	0	/
3	-2.37	0.00
4	-7.37	-5.00
5	-11.24	-8.87
6	-14.41	-12.04
7	-17.09	-14.72
8	-19.41	-17.04
9	-21.23	-19.08
10	-23.07	-20.92
15	-30.15	-28.00
20	-30.15	-28.00
30	-30.15	-28.00
50	-30.15	-28.00
70	-30.15	-28.00



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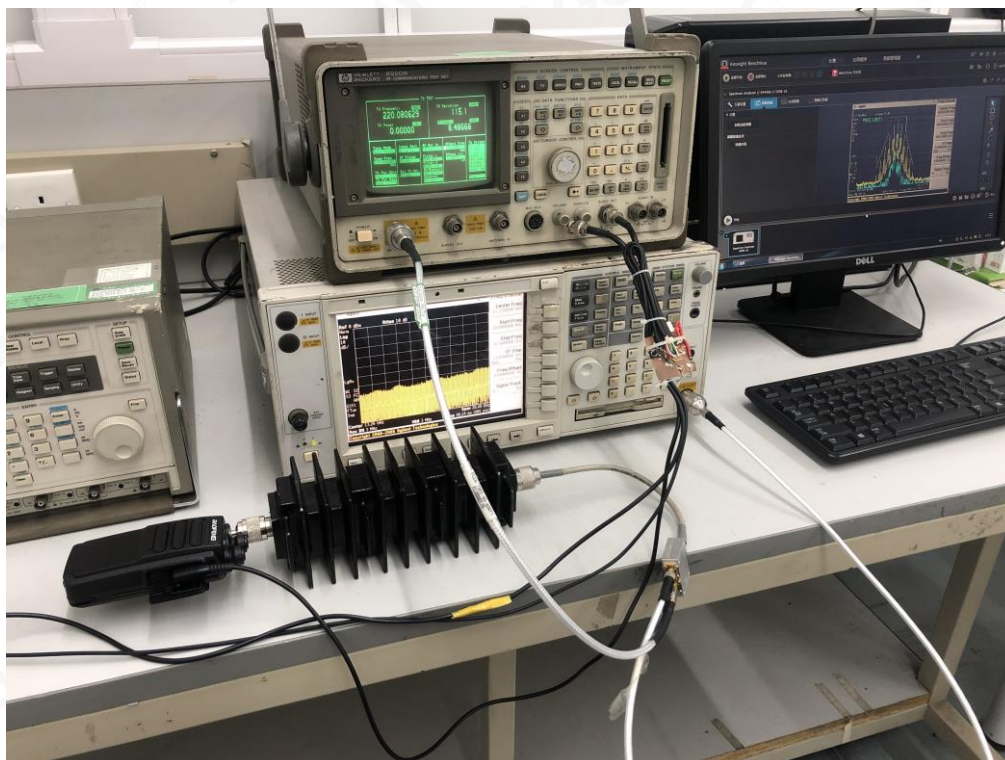
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## APPENDIX I: PHOTOGRAPHS OF SETUP RADIATED EMISSION TEST SETUP





### CONDUCTED TEST SETUP



## APPENDIX II PHOTOGRAPHS OF EUT

TOTAL VIEW OF EUT



TOP VIEW OF EUT





BOTTOM VIEW OF EUT

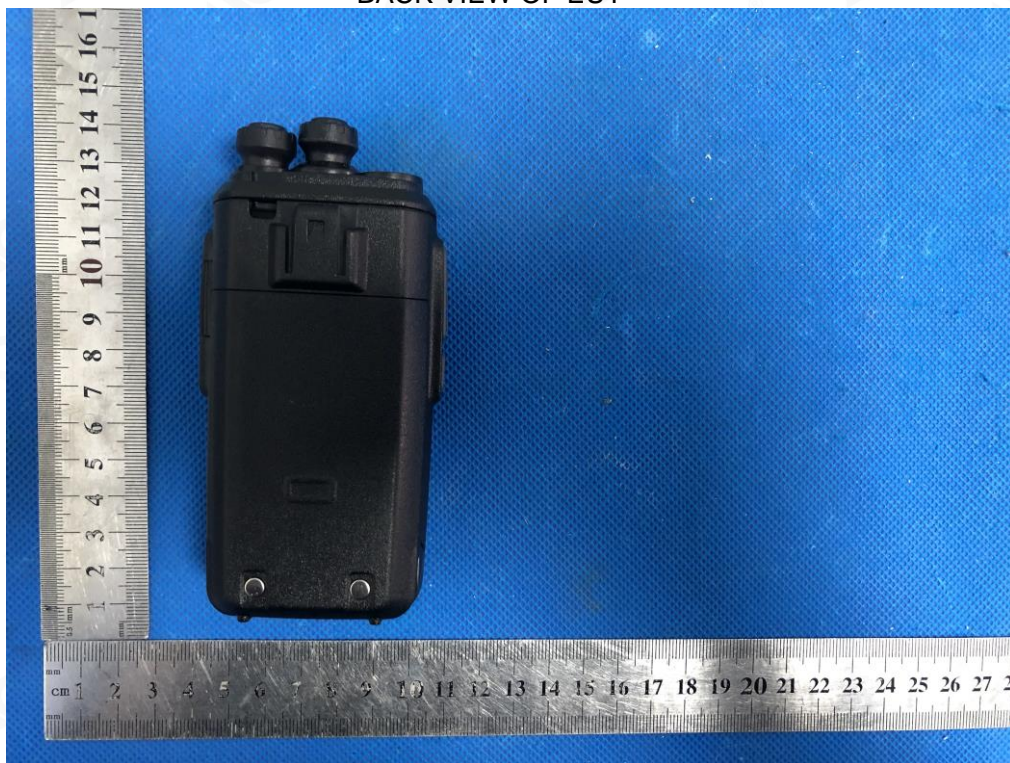


FRONT VIEW OF EUT





BACK VIEW OF EUT



LEFT VIEW OF EUT





RIGHT VIEW OF EUT



OPEN VIEW-1 OF EUT

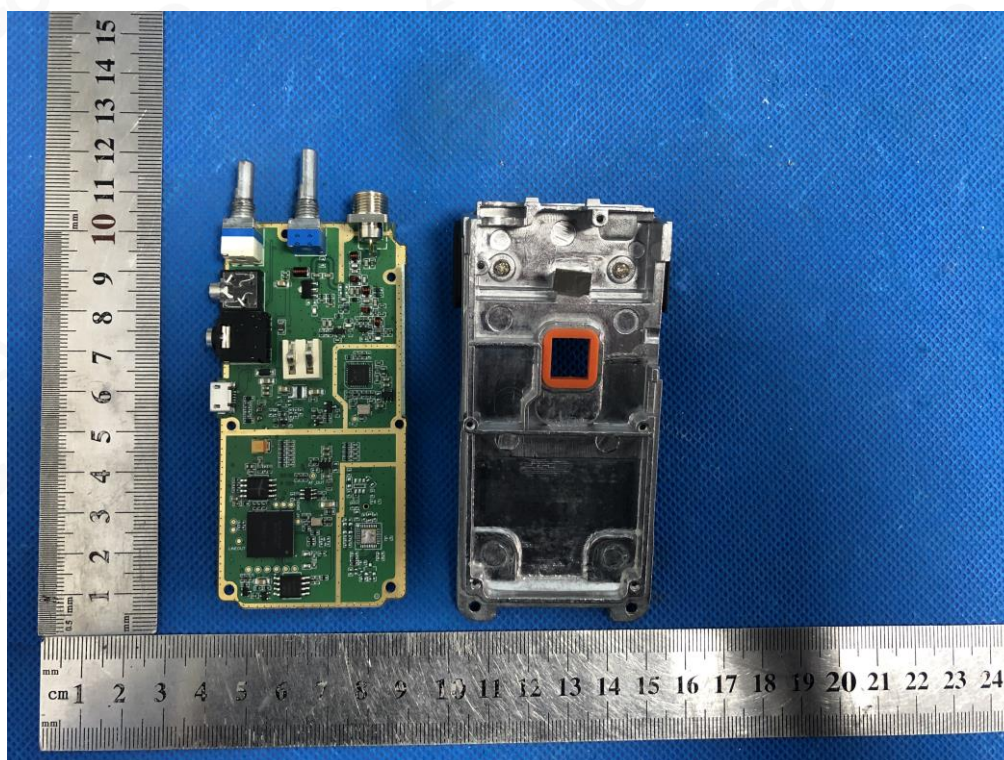




OPEN VIEW-2 OF EUT

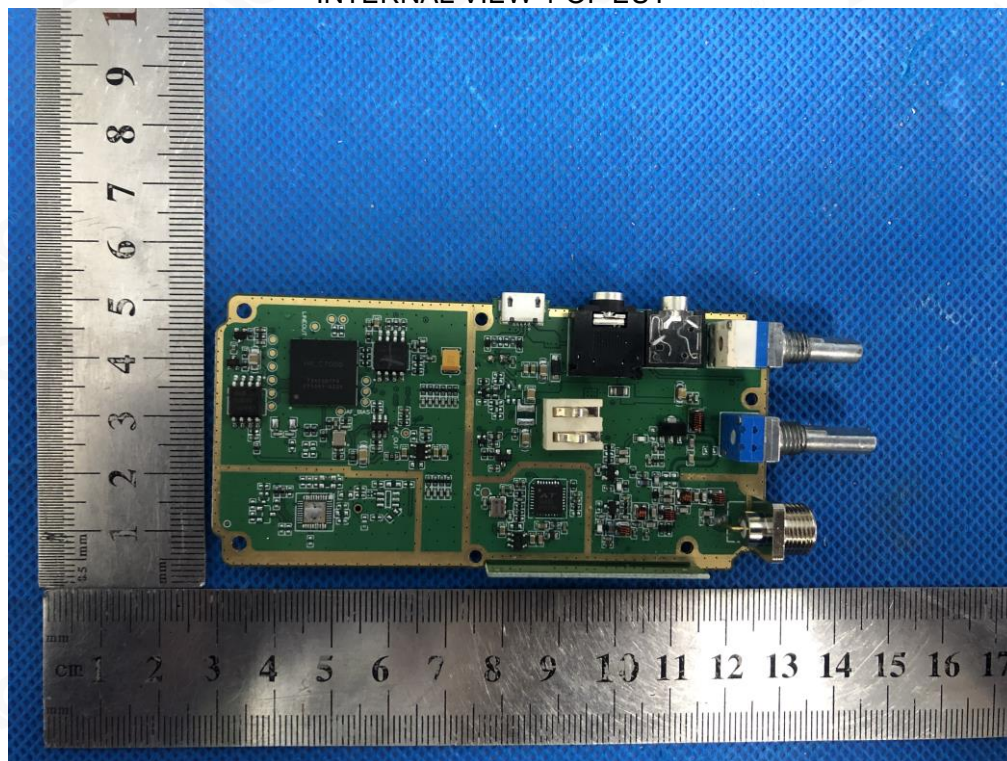


OPEN VIEW-3 OF EUT

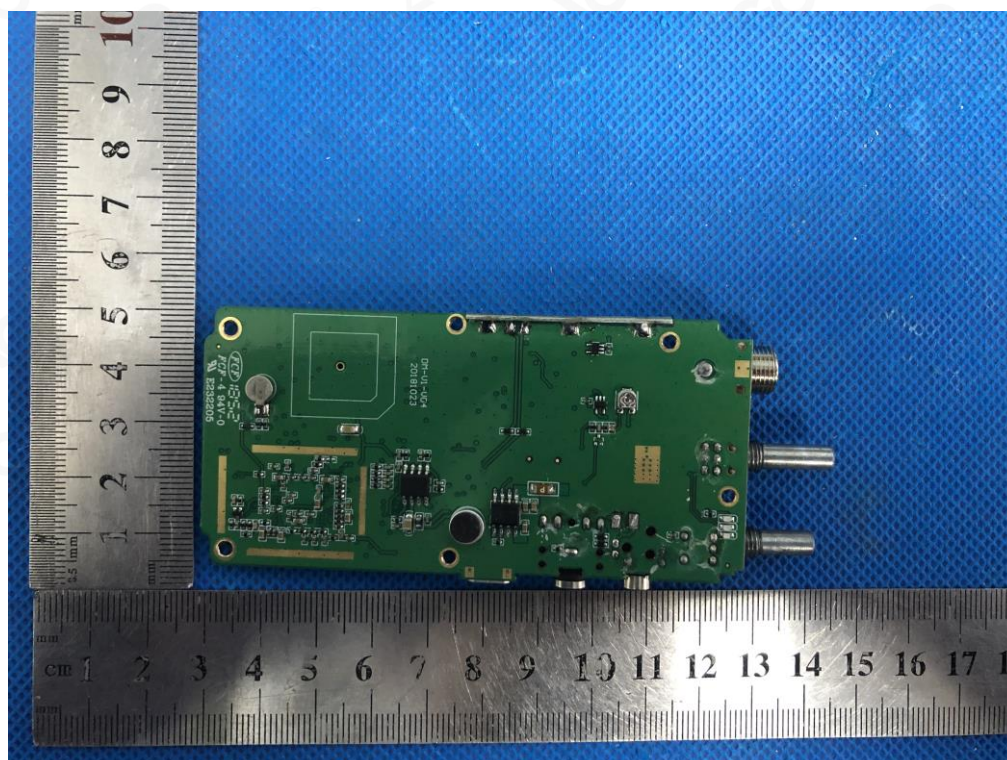




INTERNAL VIEW-1 OF EUT

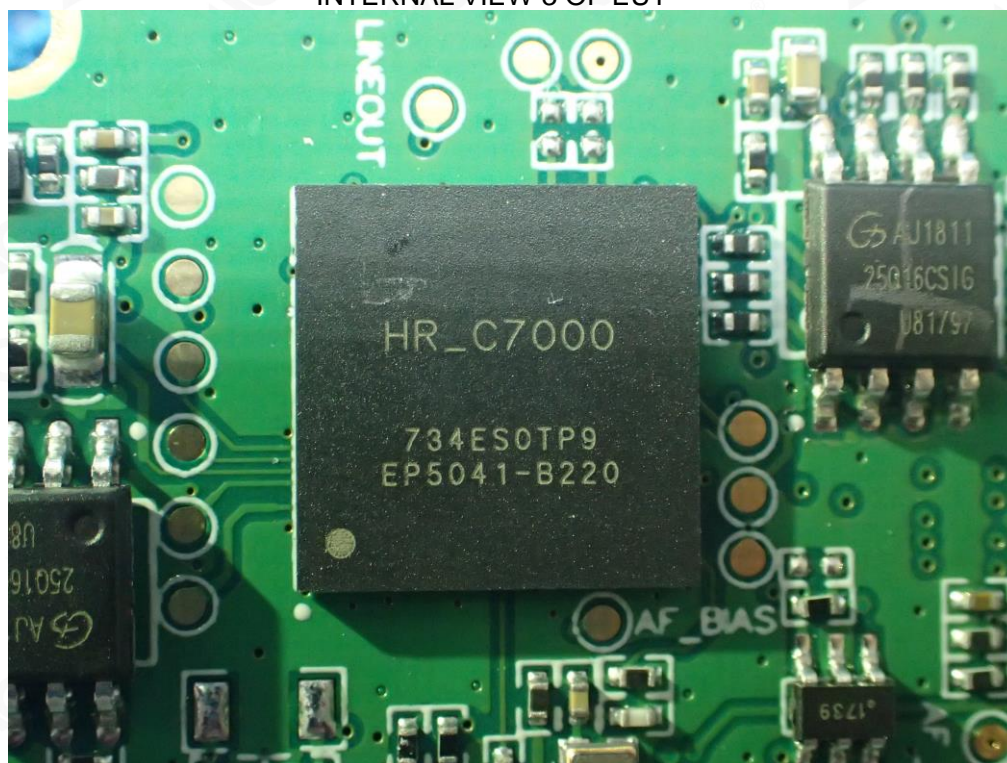


INTERNAL VIEW-2 OF EUT

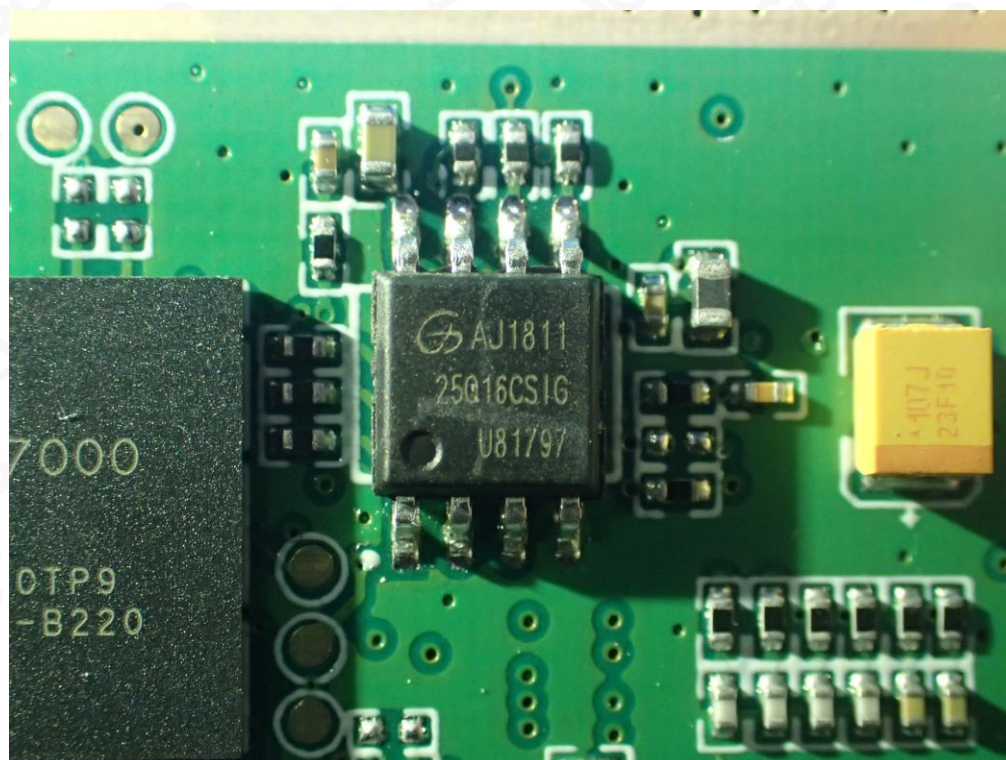




INTERNAL VIEW-3 OF EUT

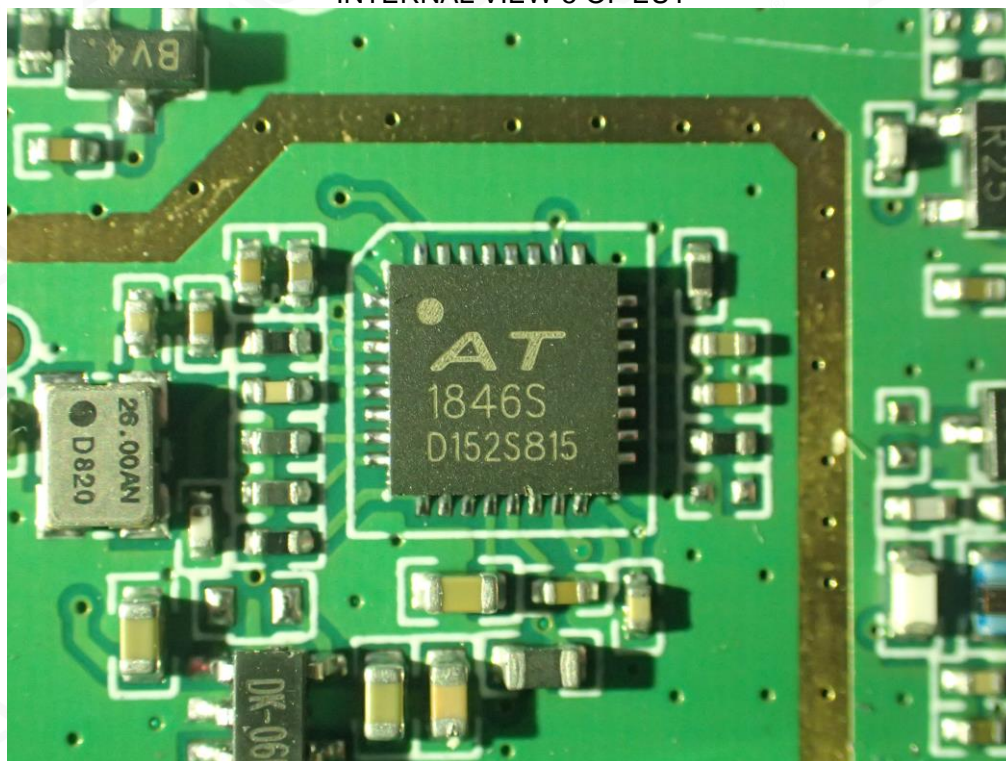


INTERNAL VIEW-4 OF EUT





INTERNAL VIEW-5 OF EUT



INTERNAL VIEW-6 OF EUT



----END OF REPORT----