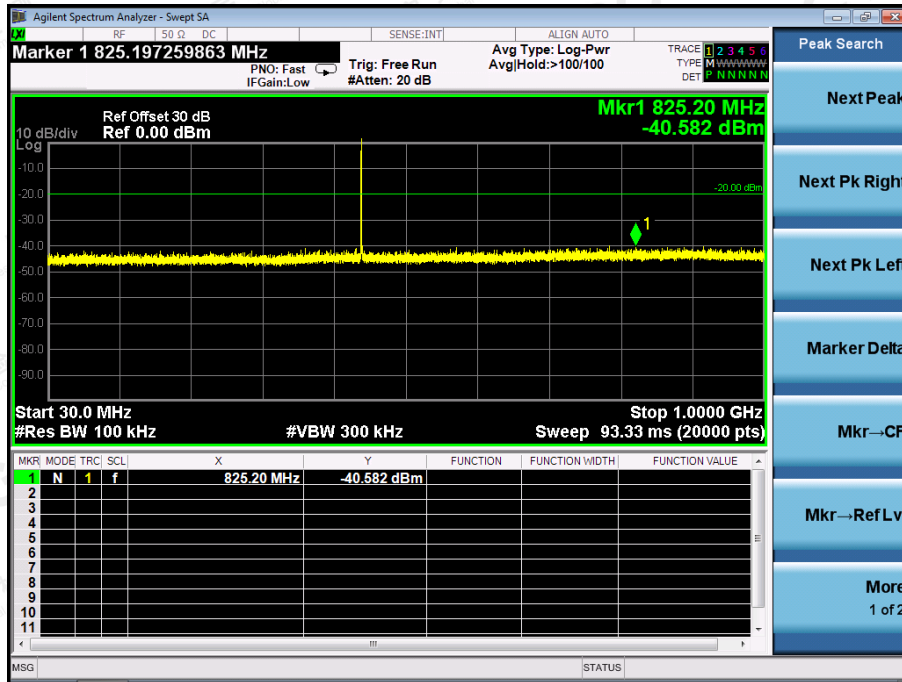
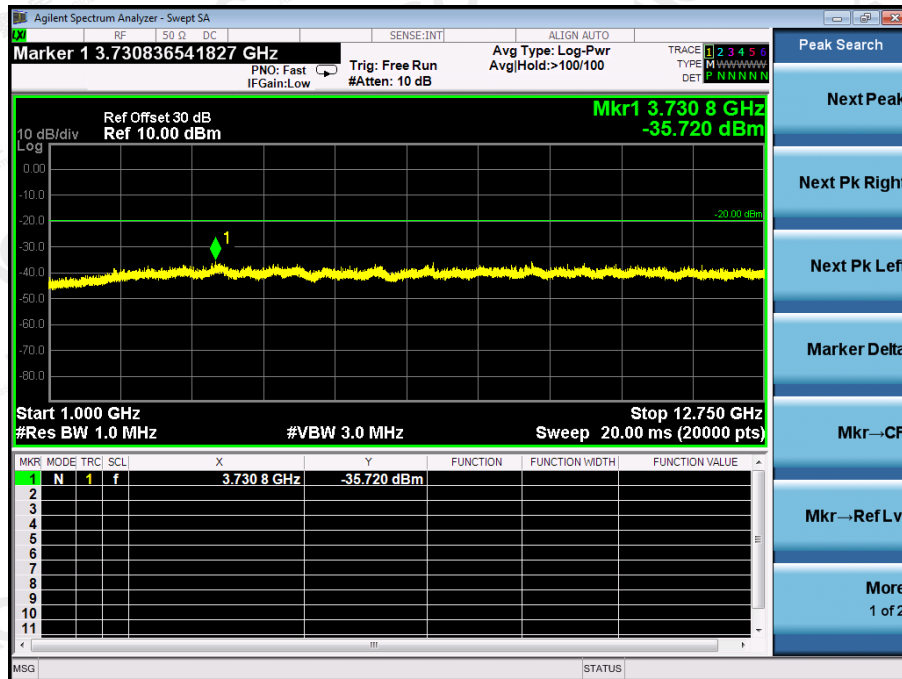


Conducted Spurious Emission (worst) @ 479.975MHz With 12.5 KHz Channel Separation-1W
30MHz-1GHz

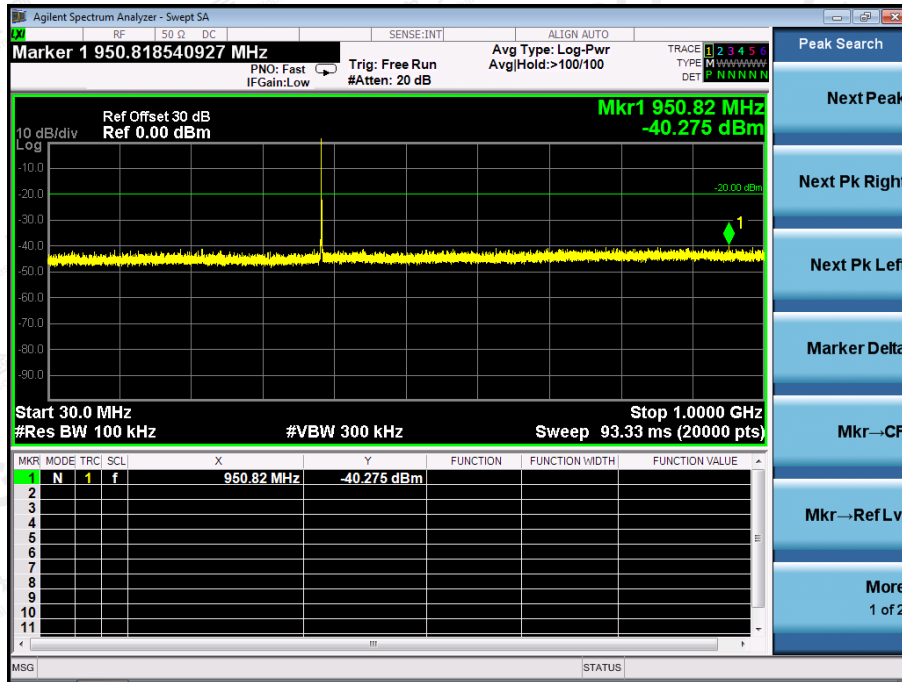


Conduct Spurious Emission (worst) @ 479.975MHz With 12.5 KHz Channel Separation-1W
1GHz-12.75GHz

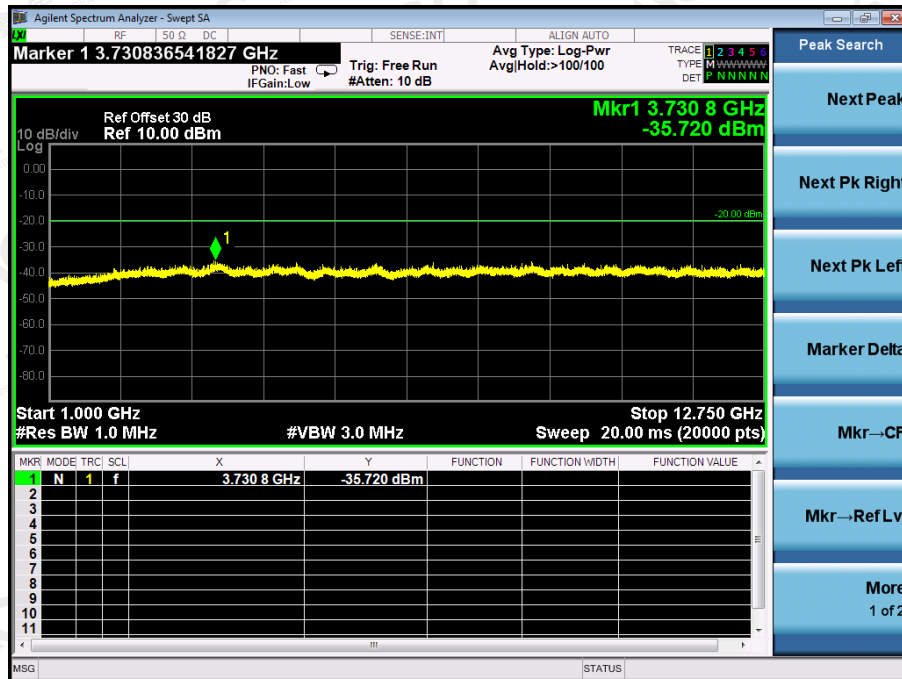


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Conducted Spurious Emission (worst) @ 400.025MHz With 12.5 KHz Channel Separation-5W
30MHz-1GHz

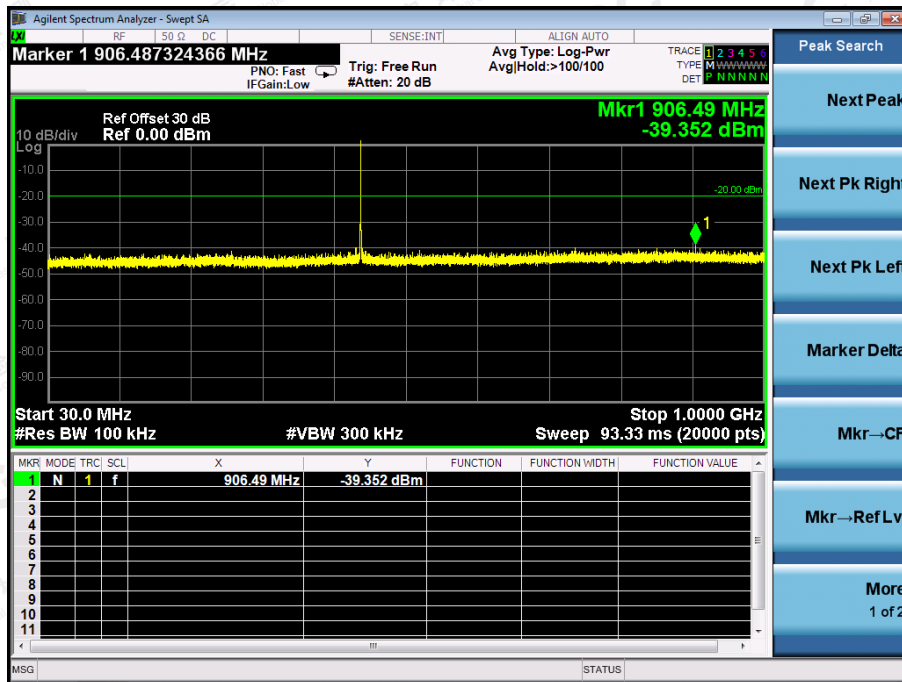


Conduct Spurious Emission (worst) @ 400.025MHz With 12.5 KHz Channel Separation-5W
1GHz-12.75GHz

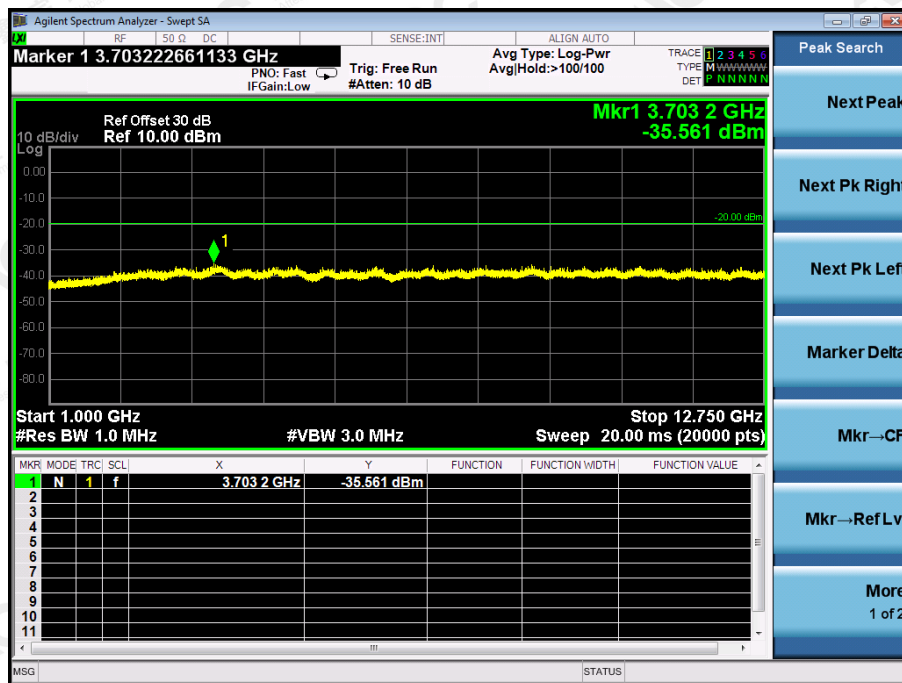


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Conducted Spurious Emission (worst) @ 453.225MHz With 12.5 KHz Channel Separation-5W
30MHz-1GHz

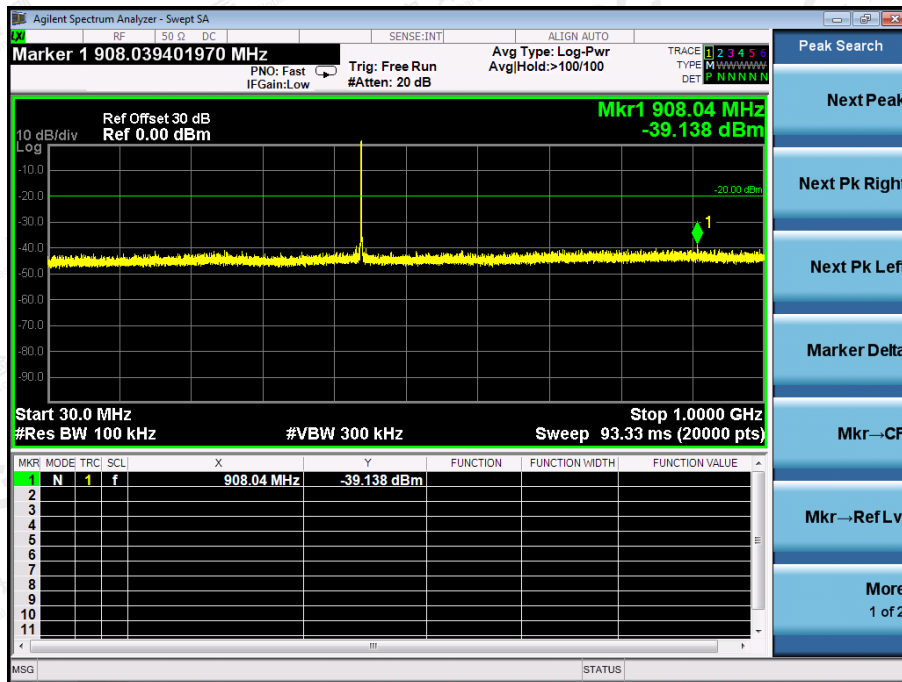


Conduct Spurious Emission (worst) @ 453.225MHz With 12.5 KHz Channel Separation-5W
1GHz-12.75GHz

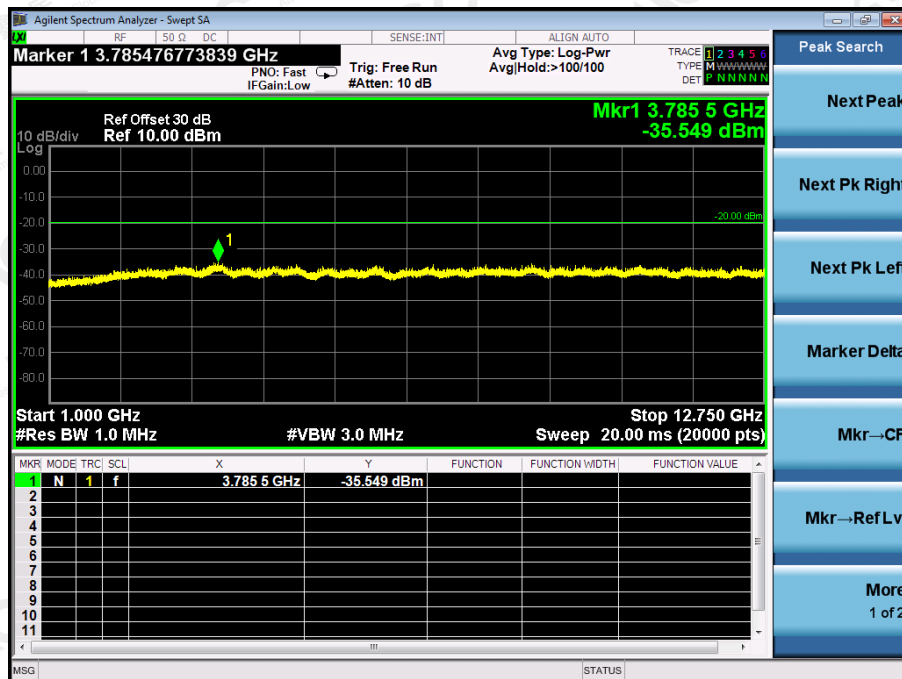


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Conducted Spurious Emission (worst) @ 479.975MHz With 12.5 KHz Channel Separation-5W
30MHz-1GHz



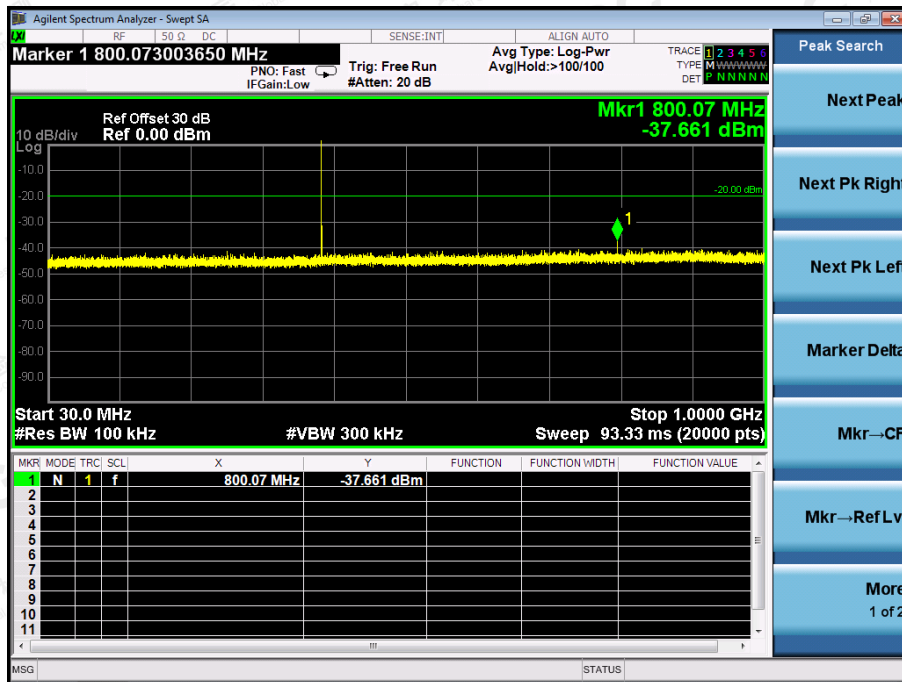
Conduct Spurious Emission (worst) @ 479.975MHz With 12.5 KHz Channel Separation-5W
1GHz-12.75GHz



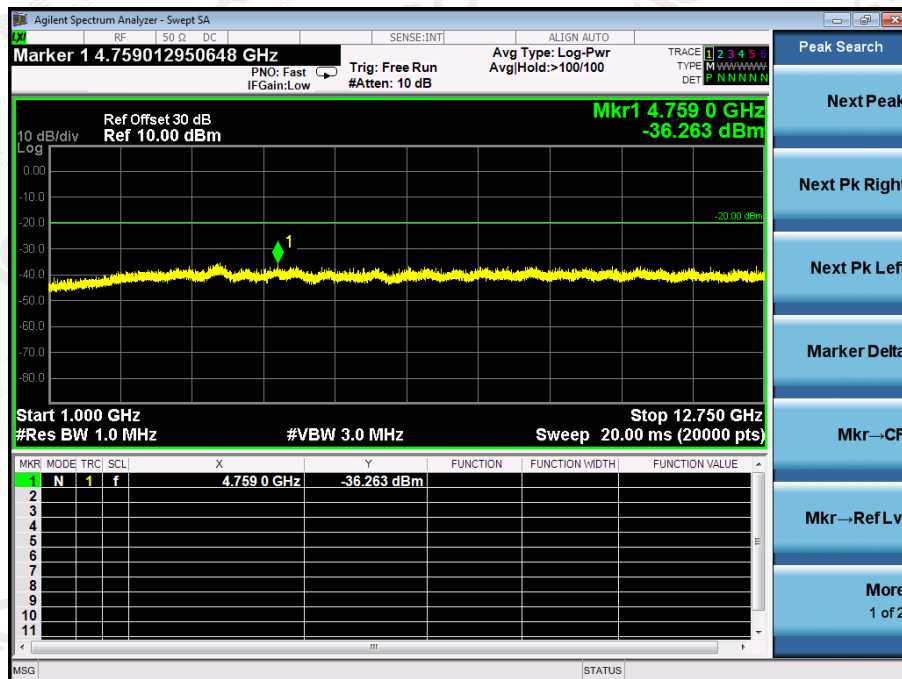
Note: All the test frequencies was tested, but only the worst data be recorded in this part.

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Conducted Spurious Emission (worst) @ 400.025MHz With 25 KHz Channel Separation-1W
30MHz-1GHz

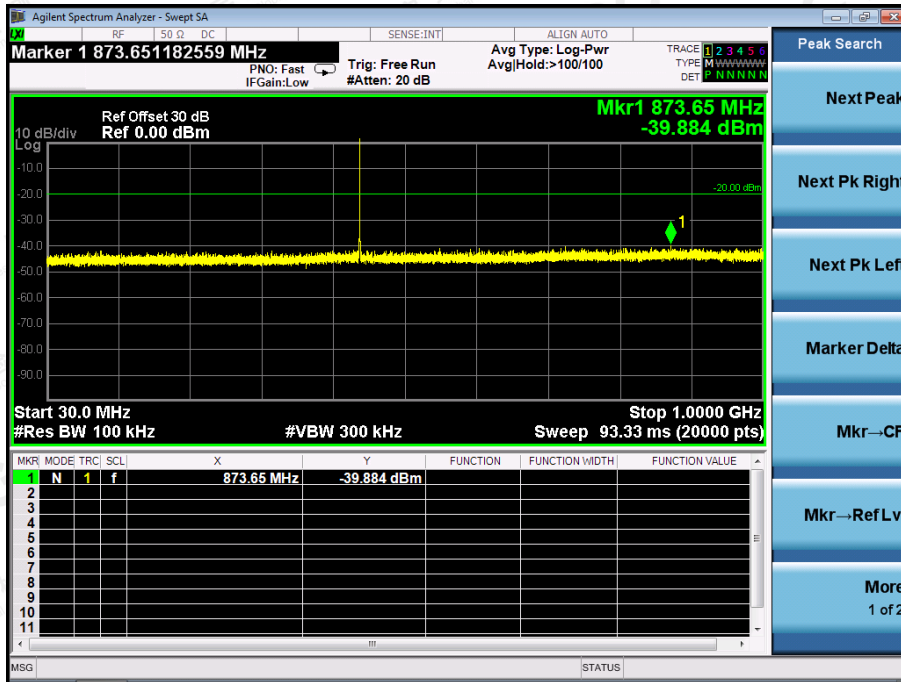


Conduct Spurious Emission (worst) @ 400.025MHz With 25 KHz Channel Separation-1W
1GHz-12.75GHz

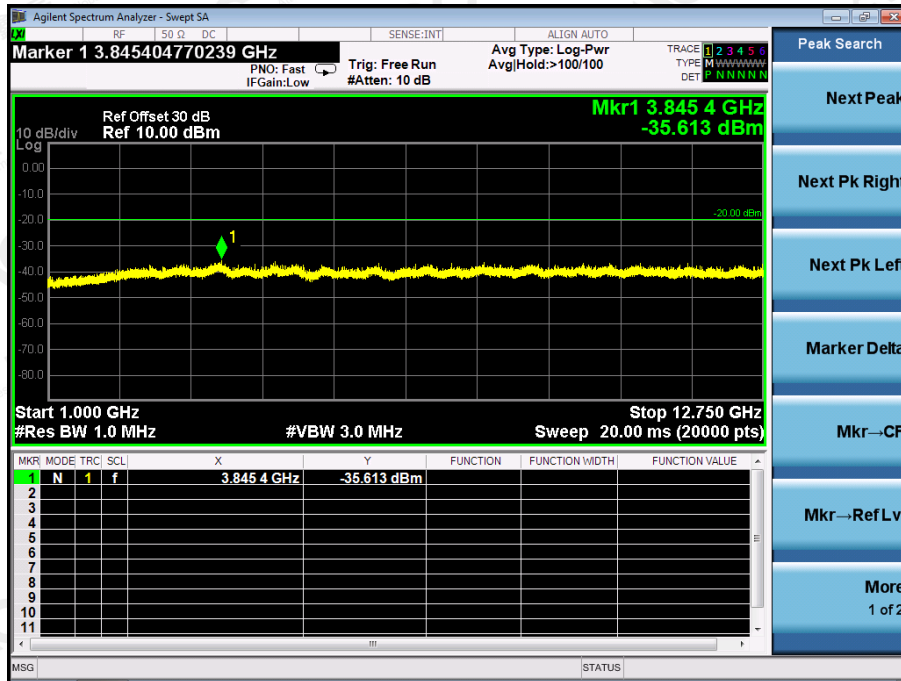


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Conducted Spurious Emission (worst) @ 453.225MHz With 25 KHz Channel Separation-1W
30MHz-1GHz

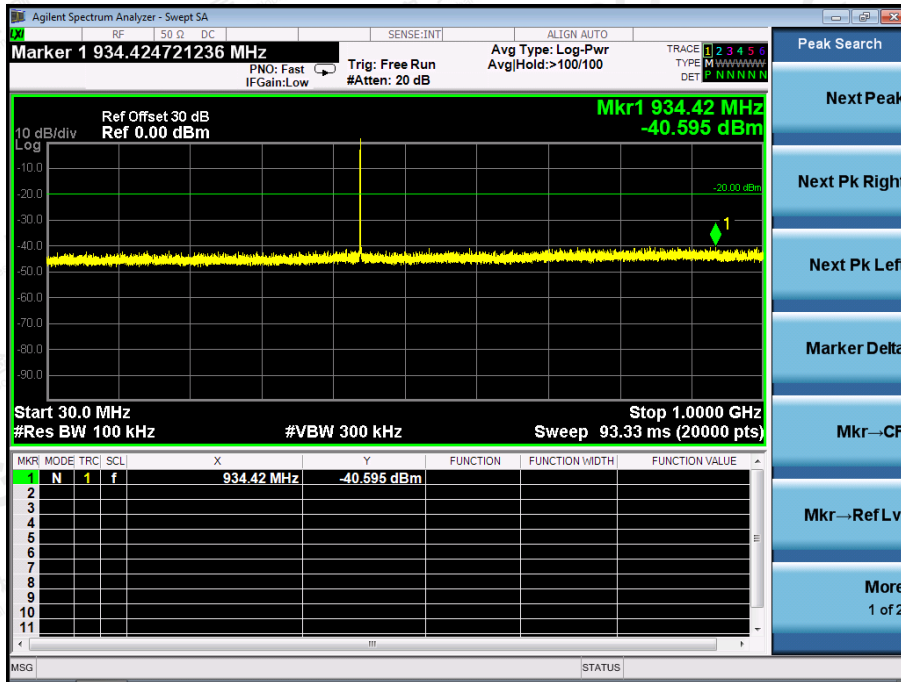


Conduct Spurious Emission (worst) @ 453.225MHz With 25 KHz Channel Separation-1W
1GHz-12.75GHz

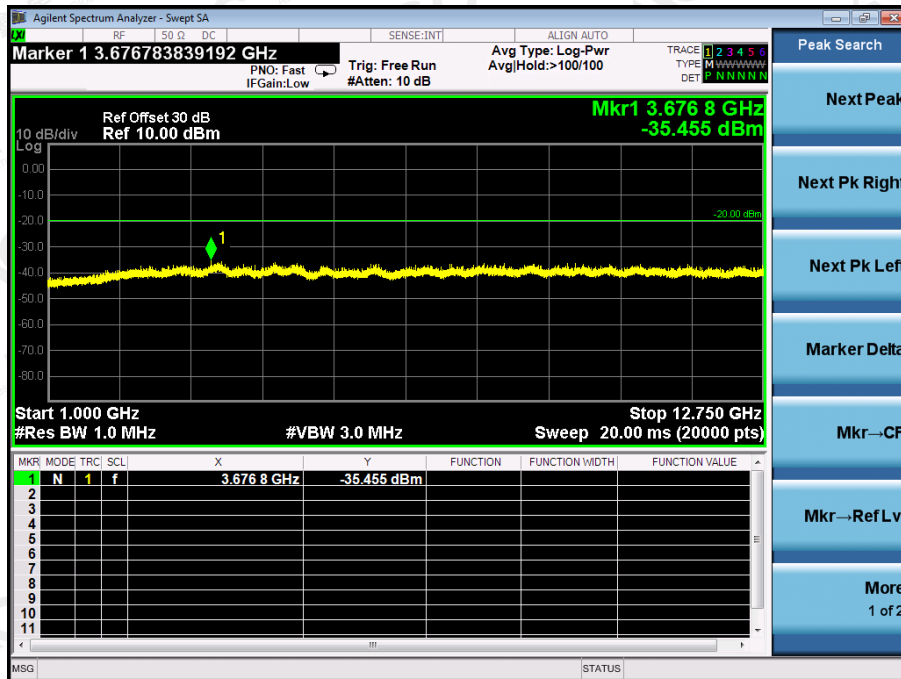


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Conducted Spurious Emission (worst) @ 479.975MHz With 25 KHz Channel Separation-1W
30MHz-1GHz

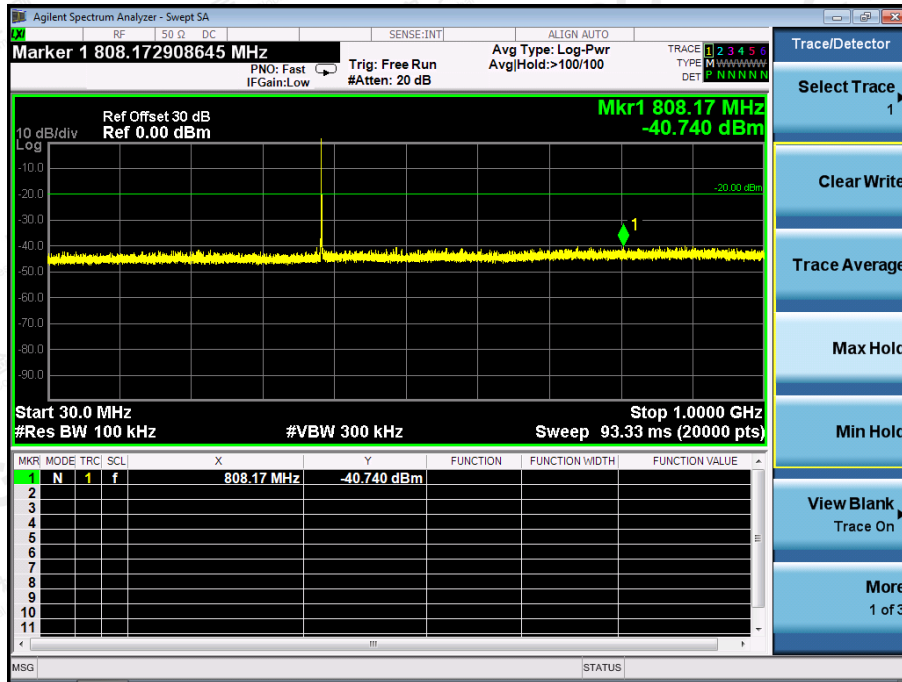


Conduct Spurious Emission (worst) @ 479.975MHz With 25 KHz Channel Separation-1W
1GHz-12.75GHz

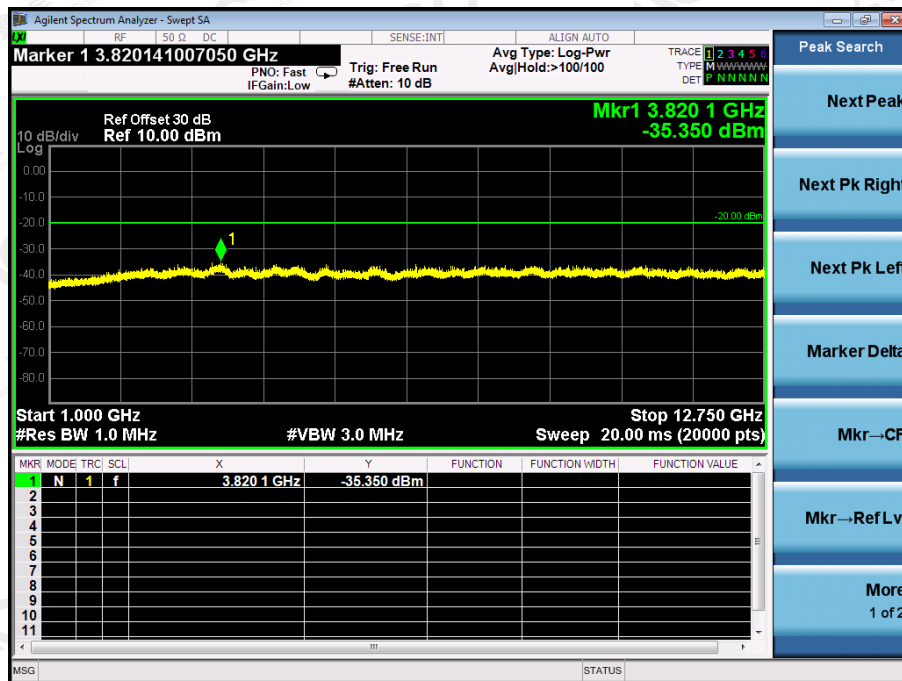


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Conducted Spurious Emission (worst) @ 400.025MHz With 25 KHz Channel Separation-5W
30MHz-1GHz

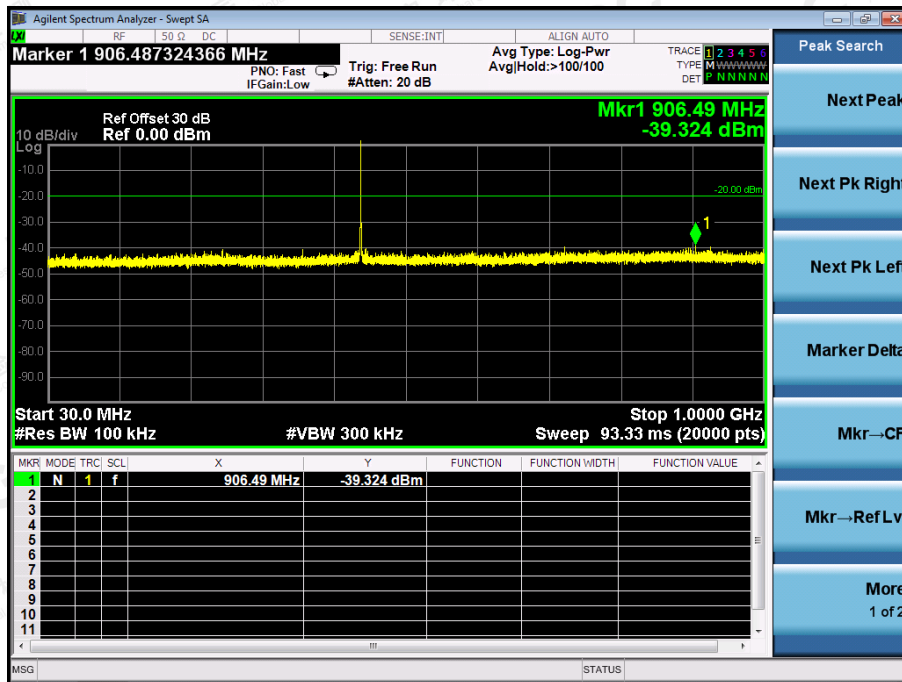


Conduct Spurious Emission (worst) @ 400.025MHz With 25 KHz Channel Separation-5W
1GHz-12.75GHz

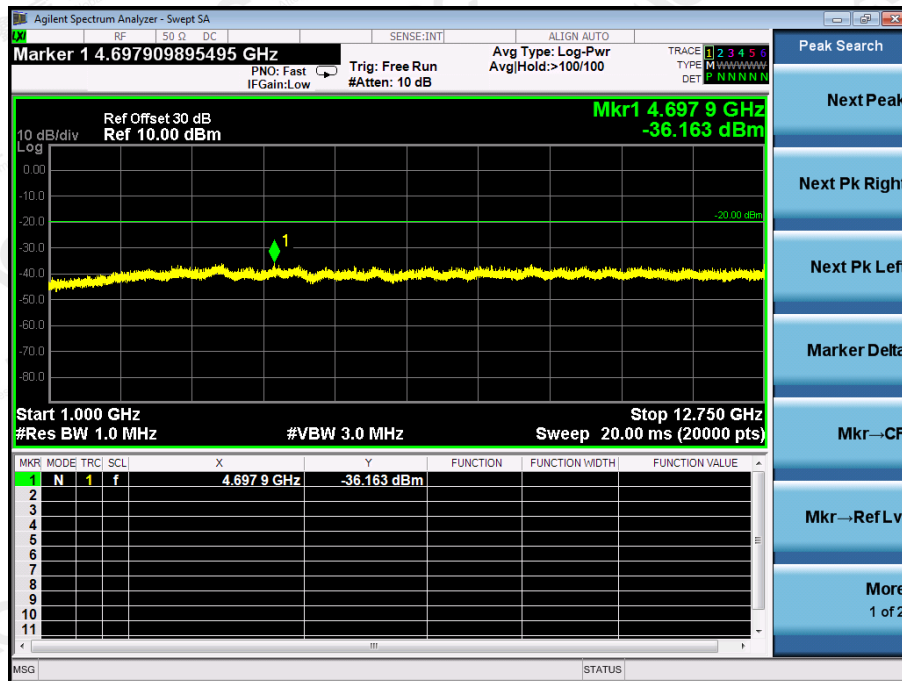


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Conducted Spurious Emission (worst) @ 453.225MHz With 25 KHz Channel Separation-5W
30MHz-1GHz

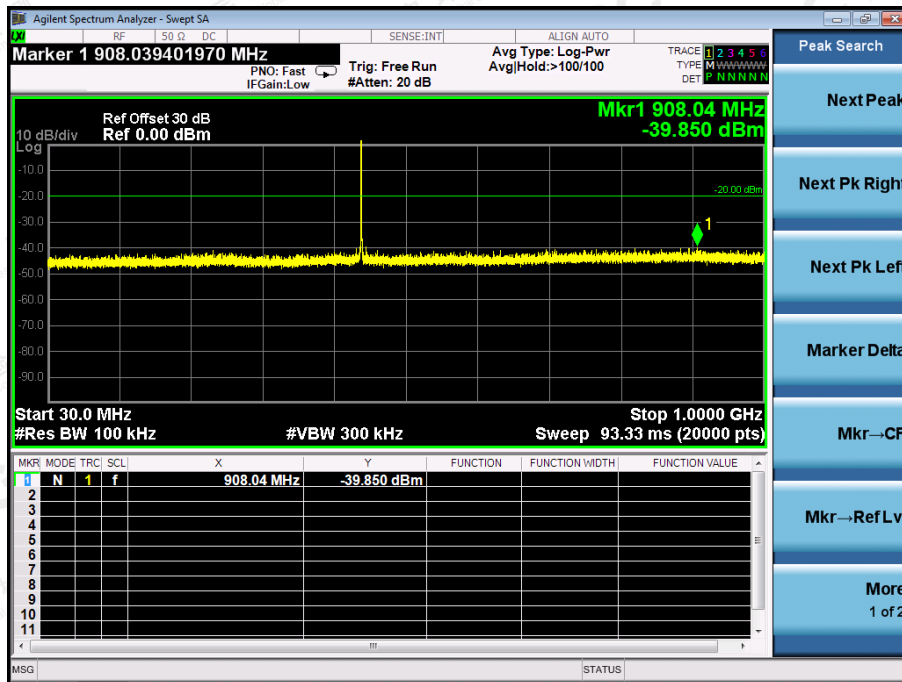


Conduct Spurious Emission (worst) @ 453.225MHz With 25 KHz Channel Separation-5W
1GHz-12.75GHz

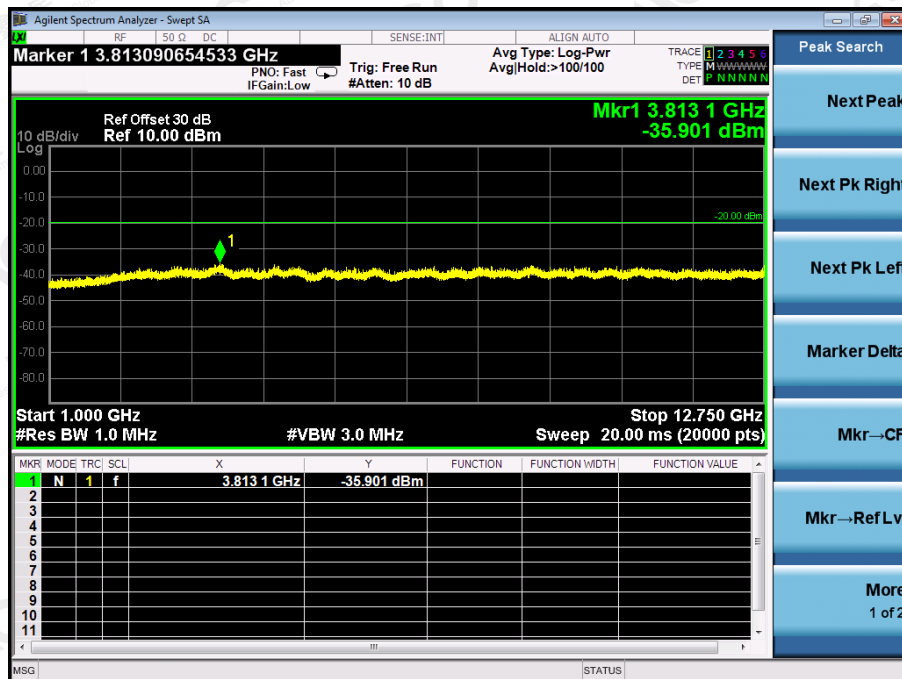


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Conducted Spurious Emission (worst) @ 479.975MHz With 25 KHz Channel Separation-5W
30MHz-1GHz



Conduct Spurious Emission (worst) @ 479.975MHz With 25 KHz Channel Separation-5W
1GHz-12.75GHz

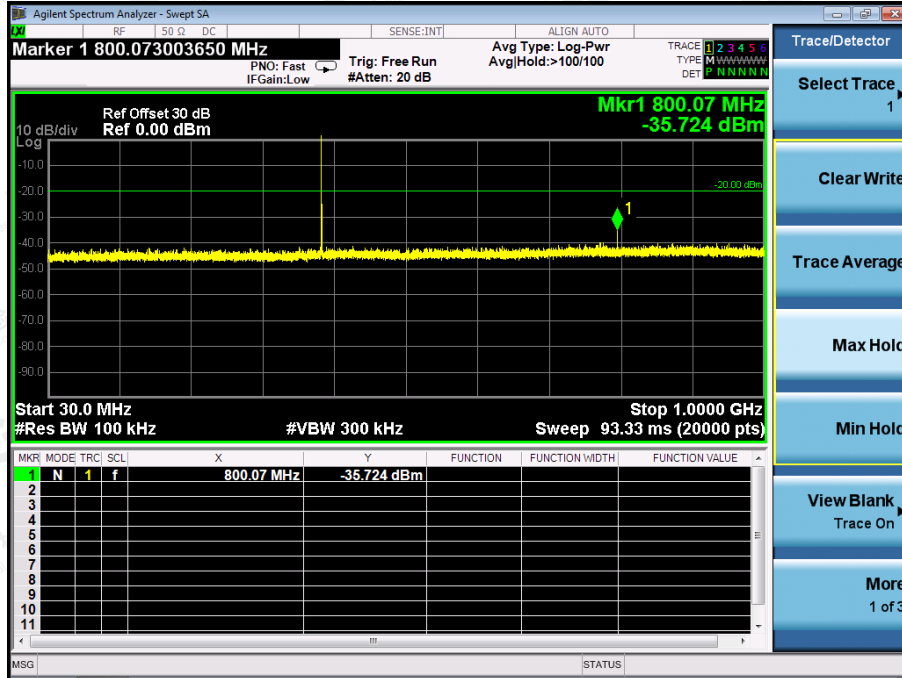


Note: All the test frequencies was tested, but only the worst data be recorded in this part.

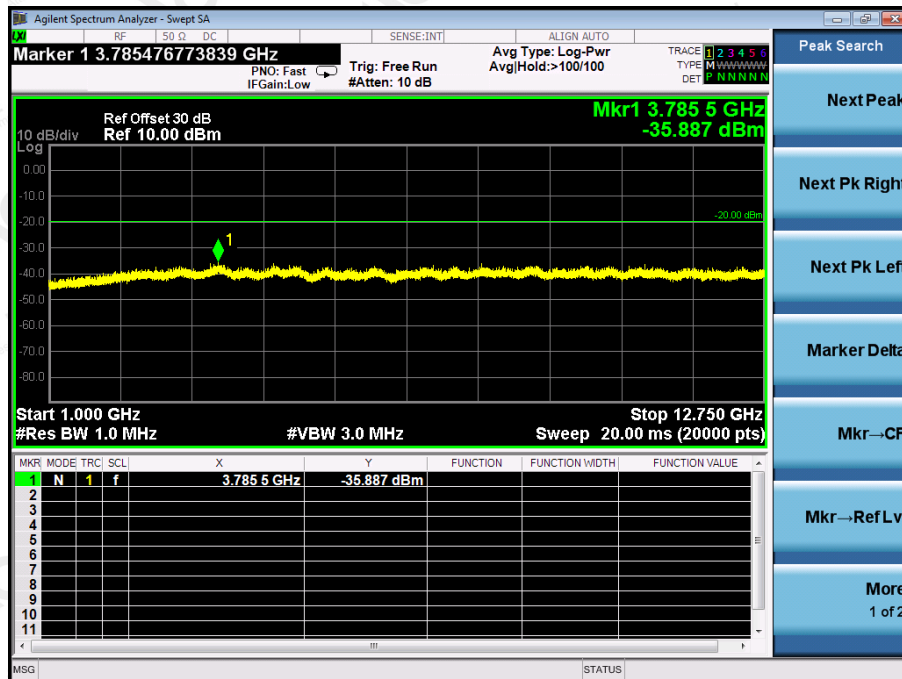
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Digital:

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

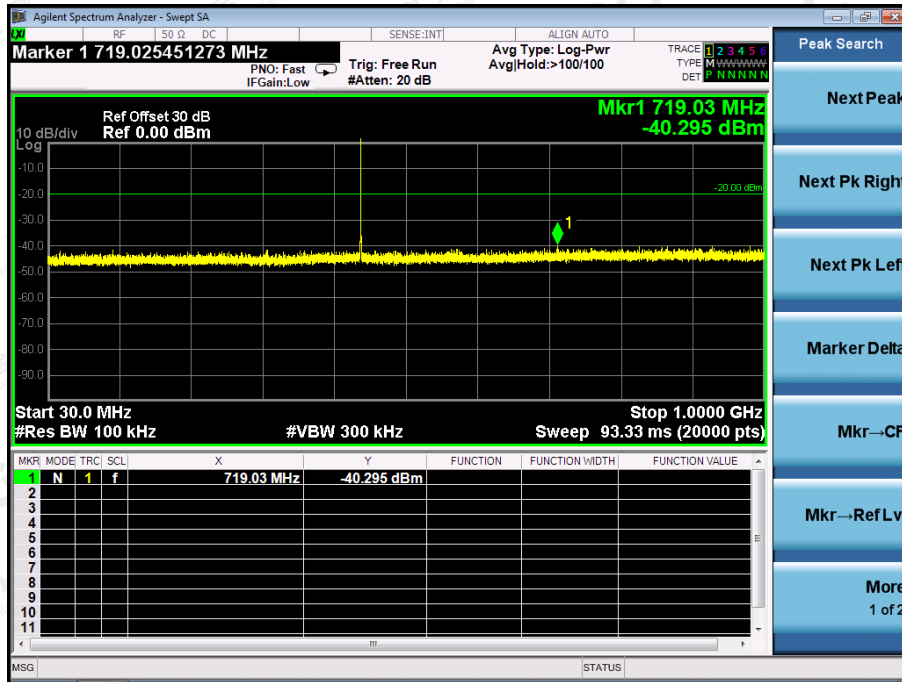


Conduct Spurious Emission (worst) @ 400.025MHz With 12.5 KHz Channel Separation-1W
1GHz-12.75GHz

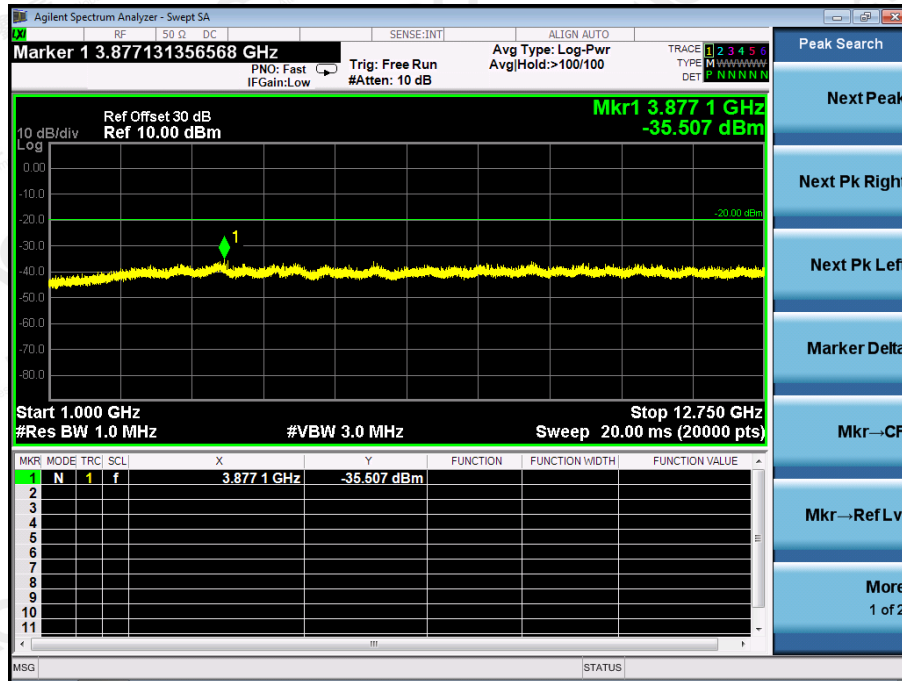


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Conducted Spurious Emission (worst) @ 453.225MHz With 12.5 KHz Channel Separation-1W
30MHz-1GHz

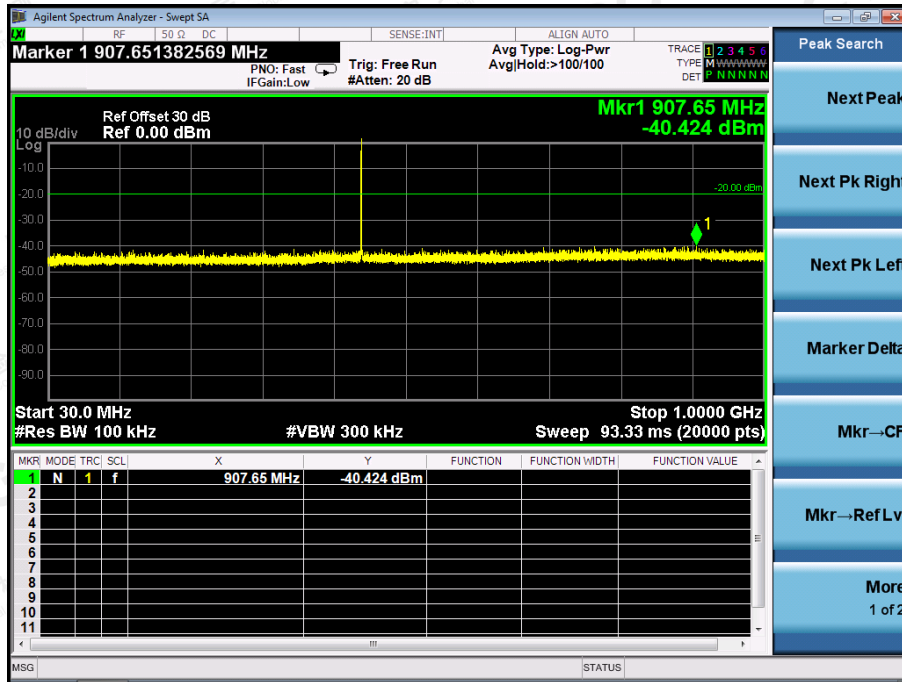


Conduct Spurious Emission (worst) @ 453.225MHz With 12.5 KHz Channel Separation-1W
1GHz-12.75GHz

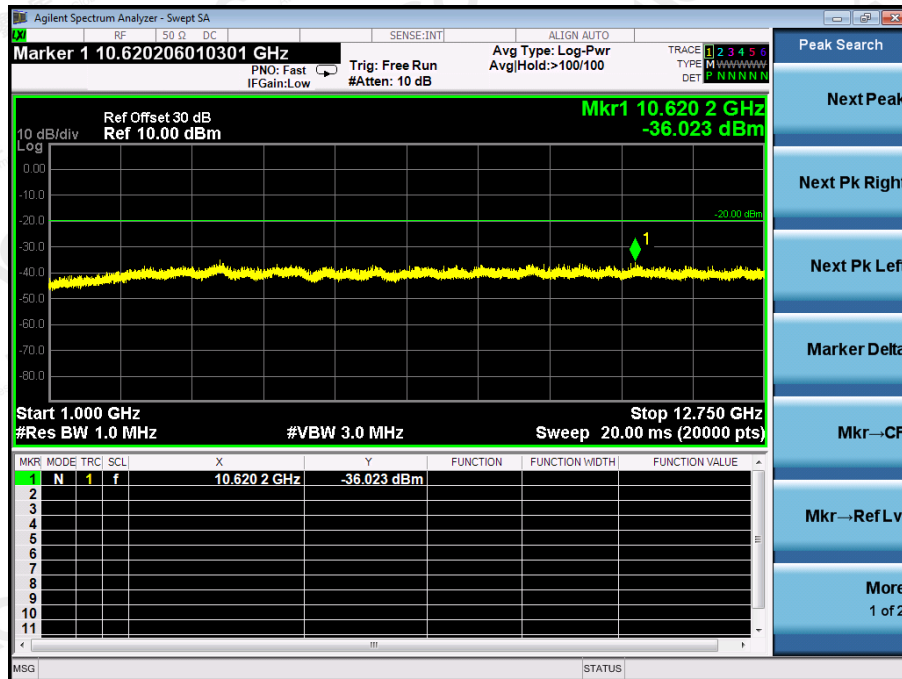


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Conducted Spurious Emission (worst) @ 479.975MHz With 12.5 KHz Channel Separation-1W
30MHz-1GHz

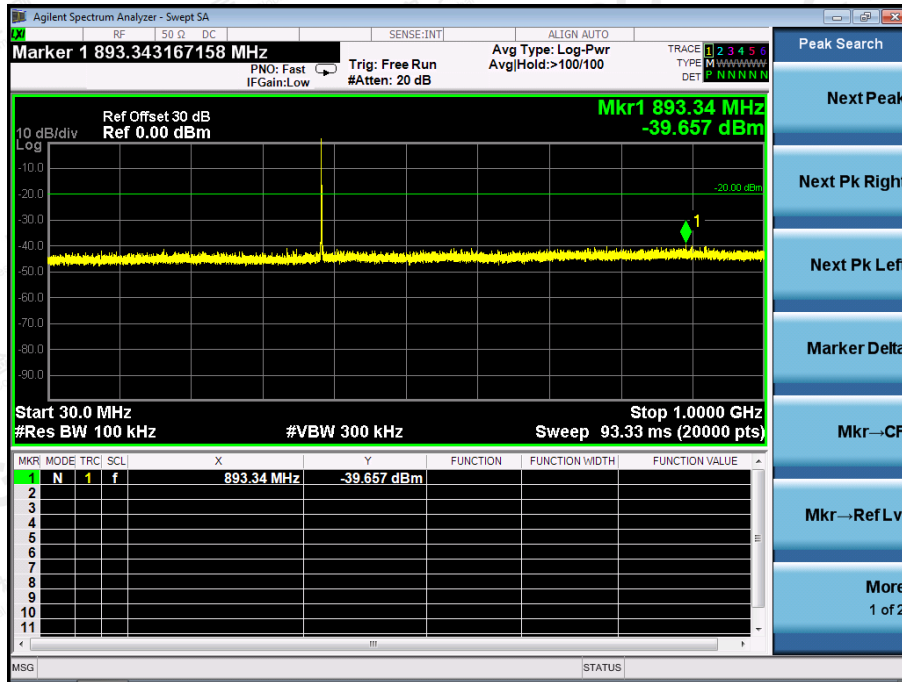


Conduct Spurious Emission (worst) @ 479.975MHz With 12.5 KHz Channel Separation-1W
1GHz-12.75GHz

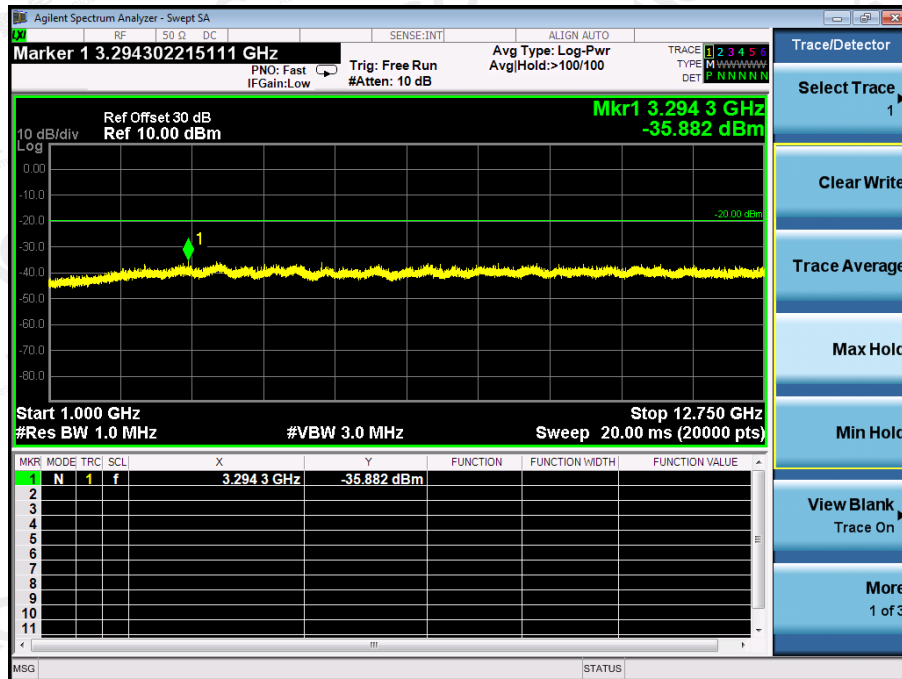


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Conducted Spurious Emission (worst) @ 400.025MHz MHz With 12.5 KHz Channel Separation-5W
30MHz-1GHz

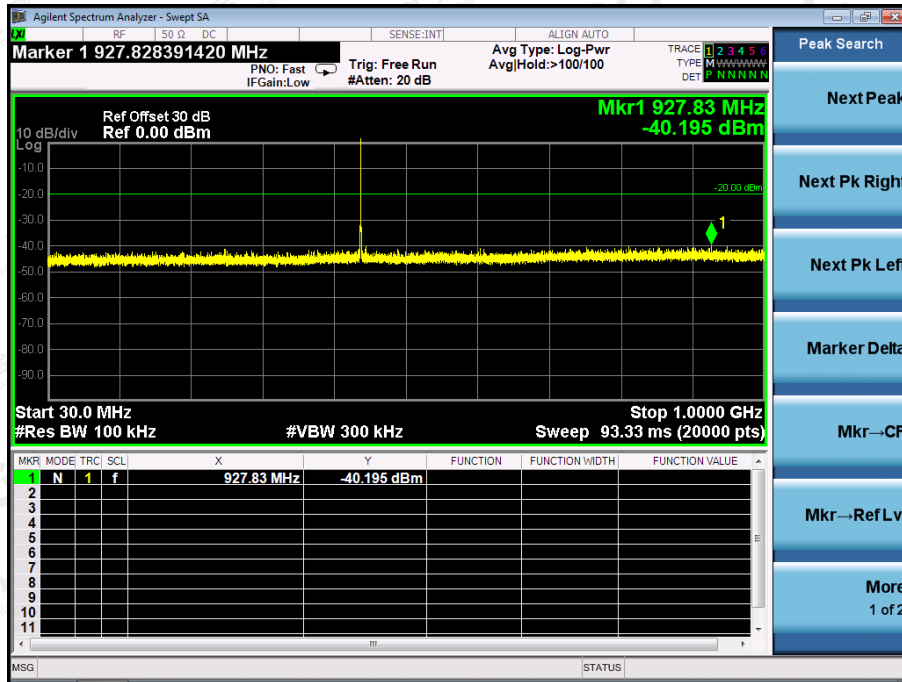


Conduct Spurious Emission (worst) @ 400.025MHz MHz With 12.5 KHz Channel Separation-5W
1GHz-12.75GHz

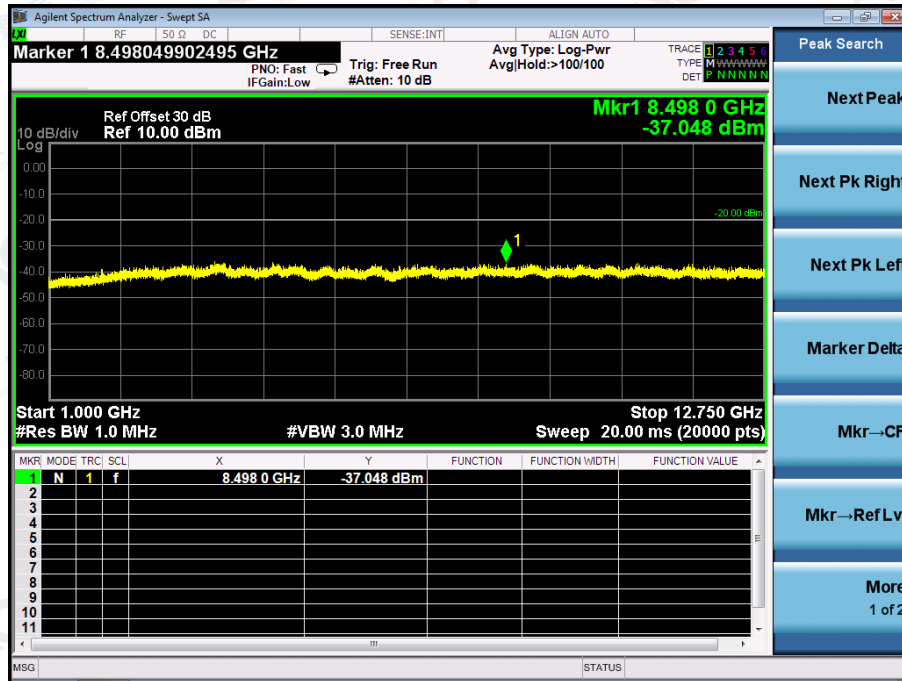


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Conducted Spurious Emission (worst) @ 453.225MHz With 12.5 KHz Channel Separation-5W
30MHz-1GHz

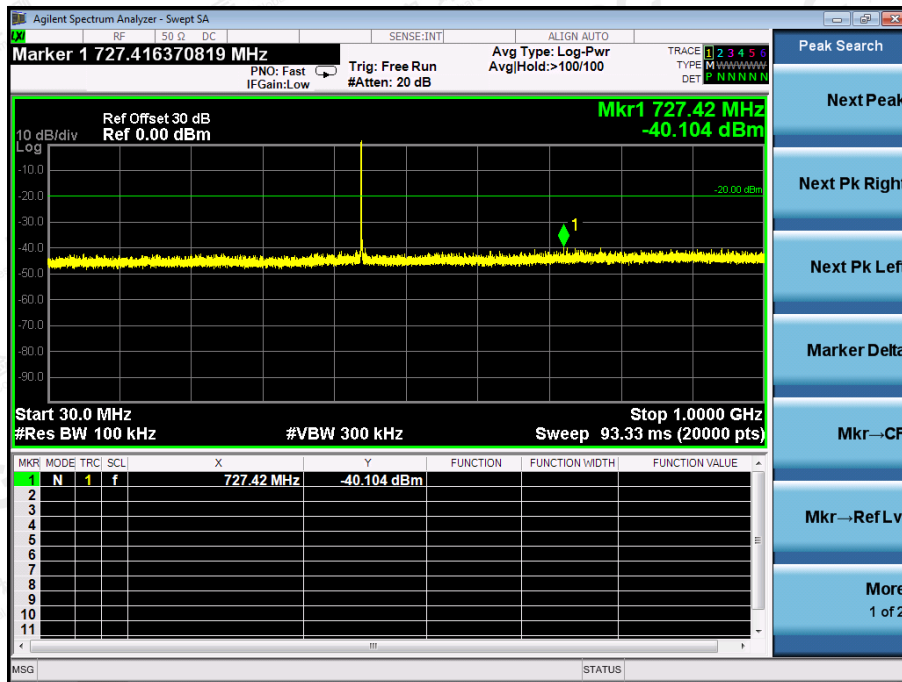


Conduct Spurious Emission (worst) @ 453.225MHz With 12.5 KHz Channel Separation-5W
1GHz-12.75GHz

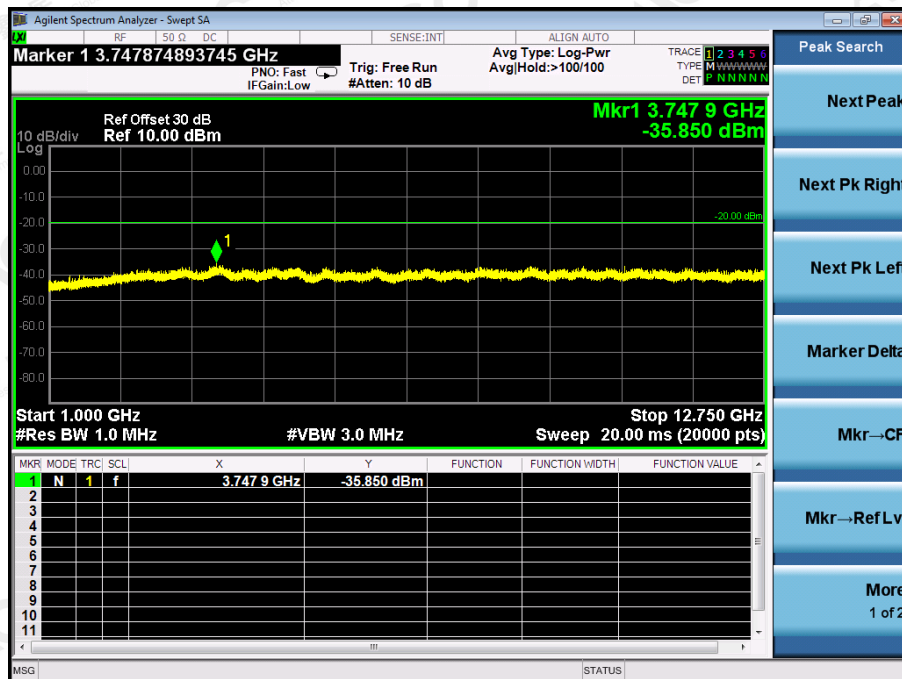


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Conducted Spurious Emission (worst) @ 479.975MHz With 12.5 KHz Channel Separation-5W
30MHz-1GHz



Conduct Spurious Emission (worst) @ 479.975MHz With 12.5 KHz Channel Separation-5W
1GHz-12.75GHz



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

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10. TRANSMITTER FREQUENCY BEHAVIOR

10.1 PROVISIONS APPLICABLE

FCC §90.214

Time intervals ^{1, 2}	Maximum frequency difference ³	All equipment	
		150 to 174 MHz	421 to 512 MHz
Transient Frequency Behavior for Equipment Designed to Operate on 25 kHz Channels			
t_1^+	± 25.0 kHz	5.0 ms	10.0 ms
t_2	± 12.5 kHz	20.0 ms	25.0 ms
t_3^+	± 25.0 kHz	5.0 ms	10.0 ms
Transient Frequency Behavior for Equipment Designed to Operate on 12.5 kHz Channels			
t_1^+	± 12.5 kHz	5.0 ms	10.0 ms
t_2	± 6.25 kHz	20.0 ms	25.0 ms
t_3^+	± 12.5 kHz	5.0 ms	10.0 ms
Transient Frequency Behavior for Equipment Designed to Operate on 6.25 kHz Channels			
t_1^+	± 6.25 kHz	5.0 ms	10.0 ms
t_2	± 3.125 kHz	20.0 ms	25.0 ms
t_3^+	± 6.25 kHz	5.0 ms	10.0 ms

¹ t_{on} 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_{on} .

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.

² 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.

³ Difference between the actual transmitter frequency and the assigned transmitter frequency.

⁴ 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.

10.2 TEST METHOD

TIA/EIA-603 2.2.19.3

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10.3 DESCRIBE LIMIT LINE OF TRANSMITTER FREQUENCY BEHAVIOR

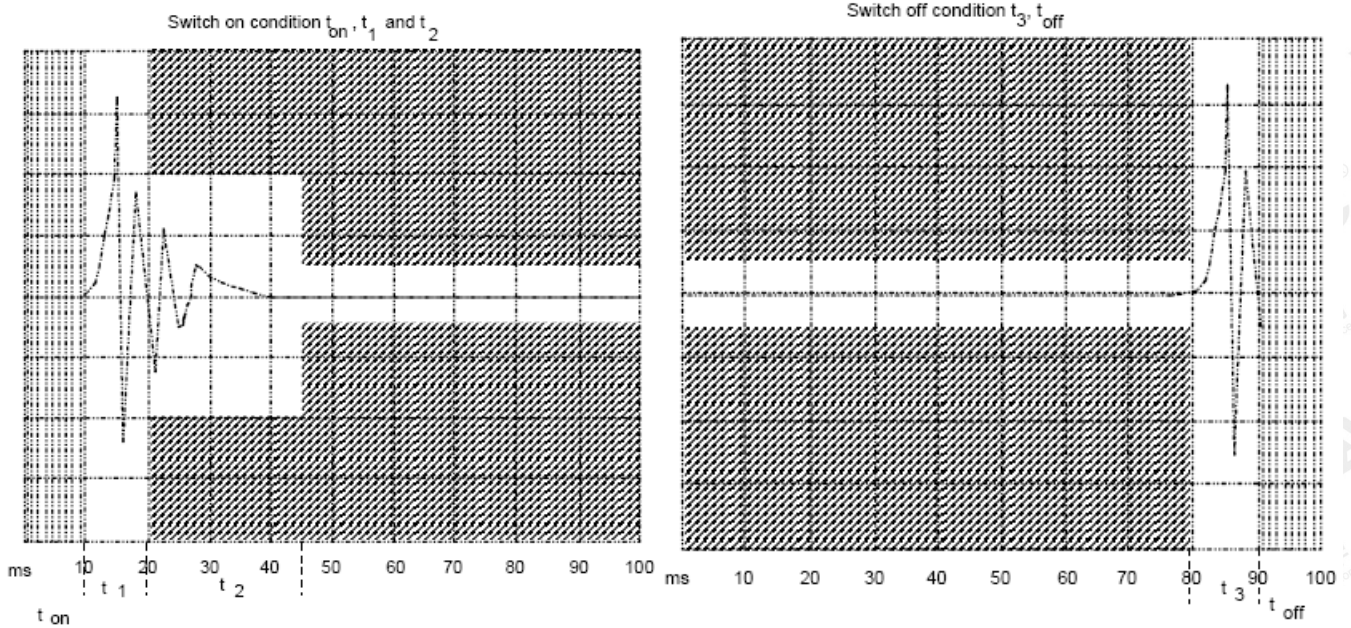
ton: The switch-on instant t_{on} of a transmitter is defined by the condition when the output power, measured at the antenna terminal, exceeds 0,1 % of the full output power (-30 dBc).

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

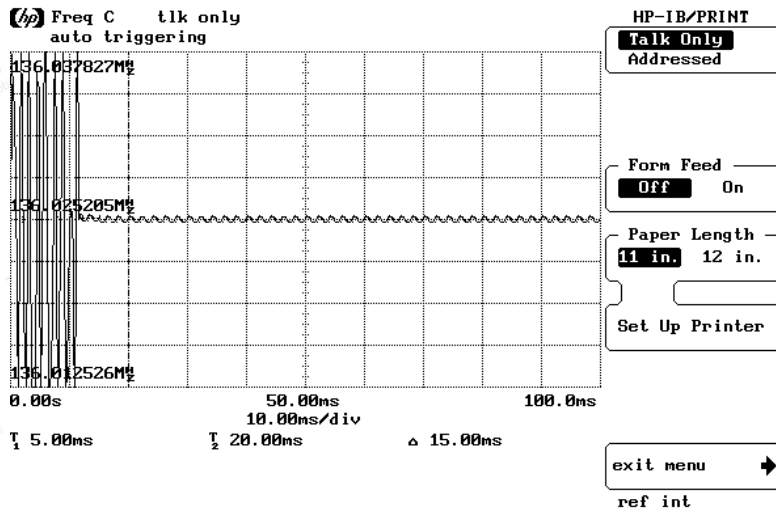


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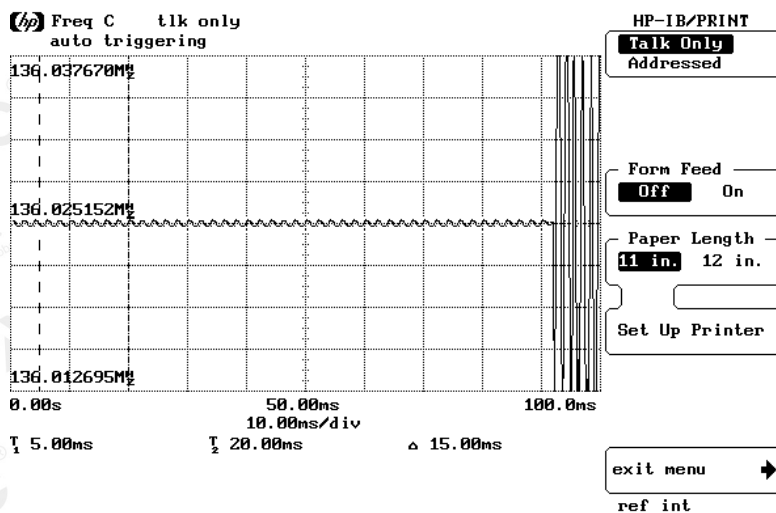
10.4 MEASURE RESULT

VHF:

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



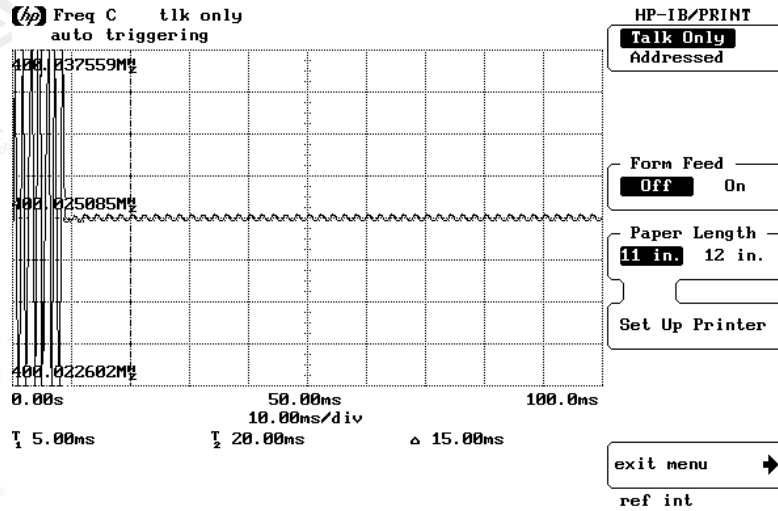
Transmitter Frequency Behavior @ 12.5 KHz Channel Separation--On to Off



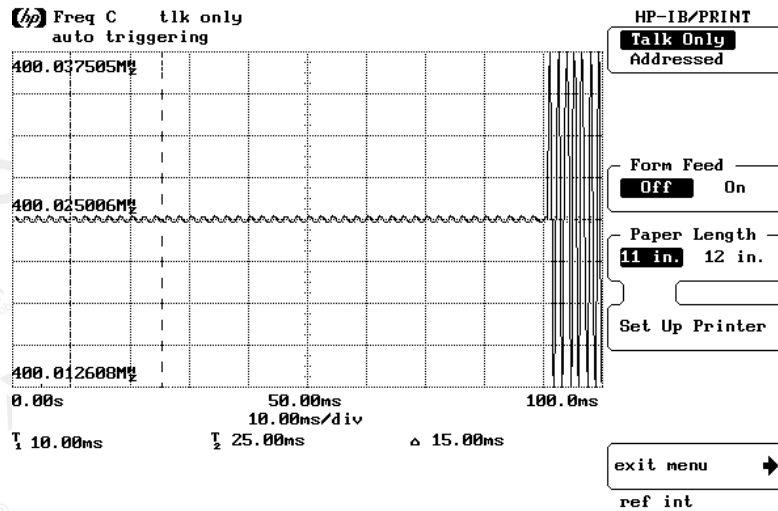
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UHF:

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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11. AUDIO LOW PASS FILTER RESPONSE

11.1 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

11.2. 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.

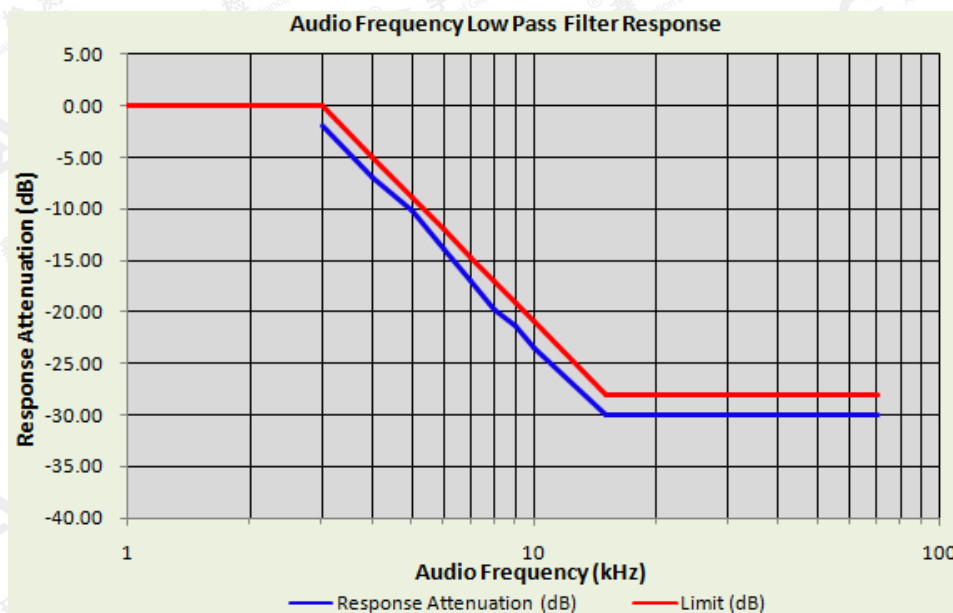
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11.3 TEST DATA

Analog:

12.5 KHZ CHANNEL SPACING, F3E, FREQUENCY OF ALL MODULATION STATES (TEST RESULT FOR UHF)-5W

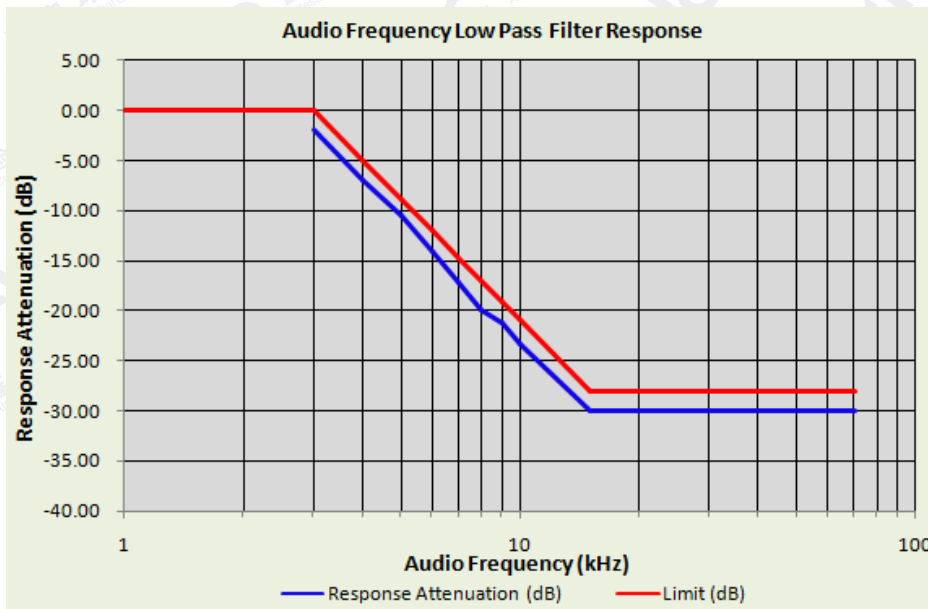
Audio Frequency (kHz)	Response Attenuation (dB)	Limit (dB)
1	0	/
3	-1.96	0.00
4	-6.95	-5.00
5	-10.16	-8.87
6	-13.95	-12.04
7	-16.95	-14.72
8	-19.85	-17.04
9	-21.32	-19.08
10	-23.52	-20.92
15	-30.00	-28.00
20	-30.00	-28.00
30	-30.00	-28.00
50	-30.00	-28.00
70	-30.00	-28.00



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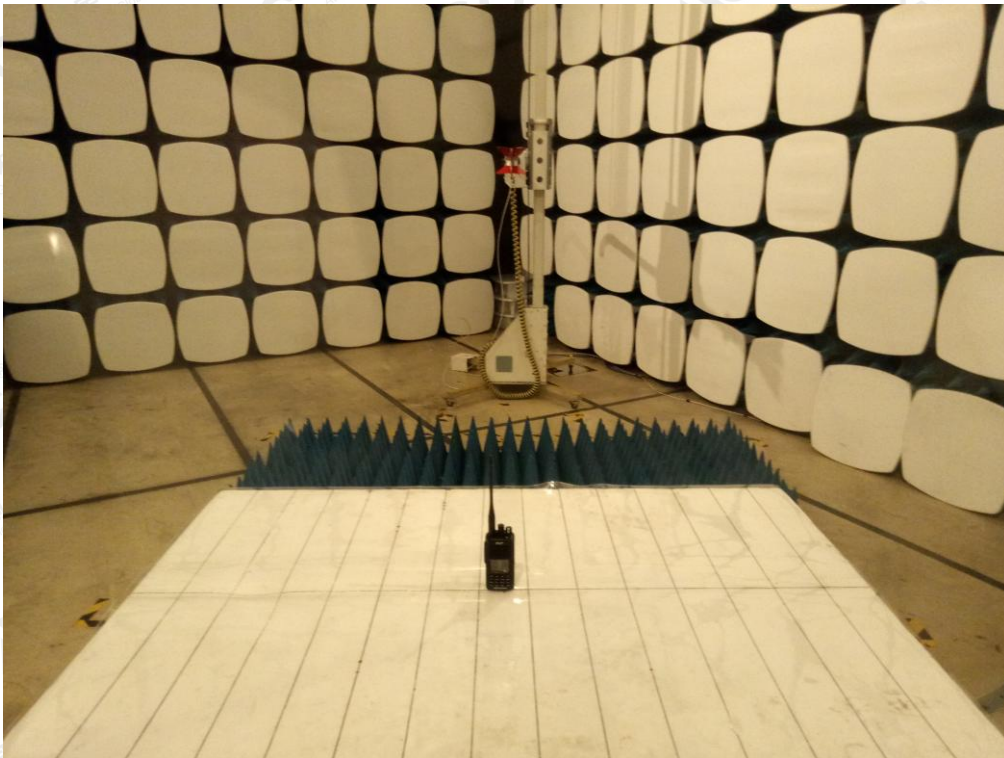
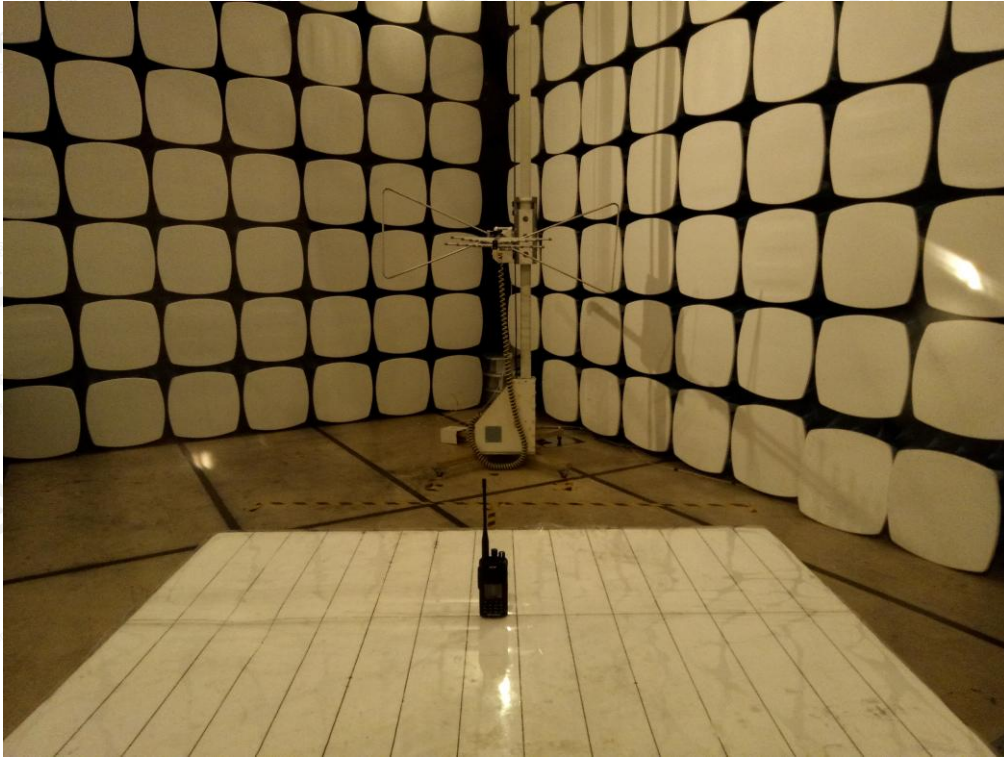
12.5KHZ CHANNEL SPACING, F3E, FREQUENCY OF ALL MODULATION STATES (TEST RESULT FOR VHF)-5W

Audio Frequency (kHz)	Response Attenuation (dB)	Limit (dB)
1	0	/
3	-1.85	0.00
4	-6.89	-5.00
5	-10.59	-8.87
6	-14.05	-12.04
7	-17.16	-14.72
8	-19.99	-17.04
9	-21.25	-19.08
10	-23.42	-20.92
15	-30.00	-28.00
20	-30.00	-28.00
30	-30.00	-28.00
50	-30.00	-28.00
70	-30.00	-28.00



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APPENDIX I: PHOTOGRAPHS OF SETUP
RADIATED EMISSION TEST SETUP



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APPENDIX II: EXTERNAL VIEW OF EUT
TOTAL VIEW OF EUT



TOP VIEW OF EUT



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BOTTOM VIEW OF EUT



FRONT VIEW OF EUT



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BACK VIEW OF EUT



LEFT VIEW OF EUT



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RIGHT VIEW OF EUT



OPEN VIEW-1 OF EUT

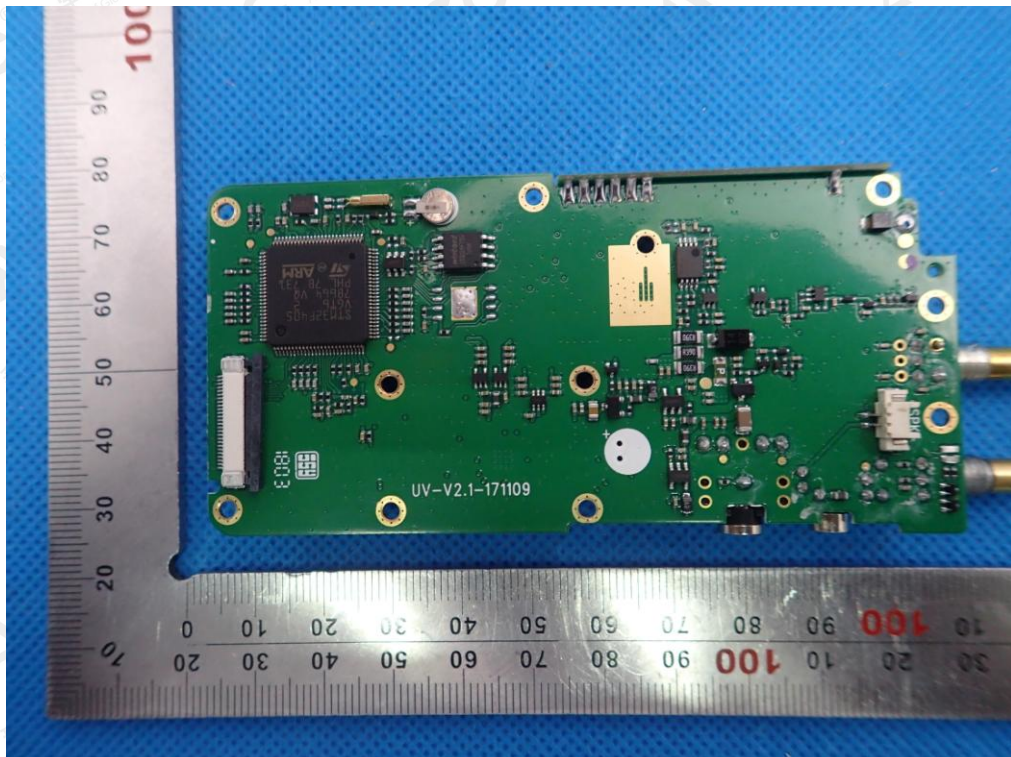


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OPEN VIEW-2 OF EUT

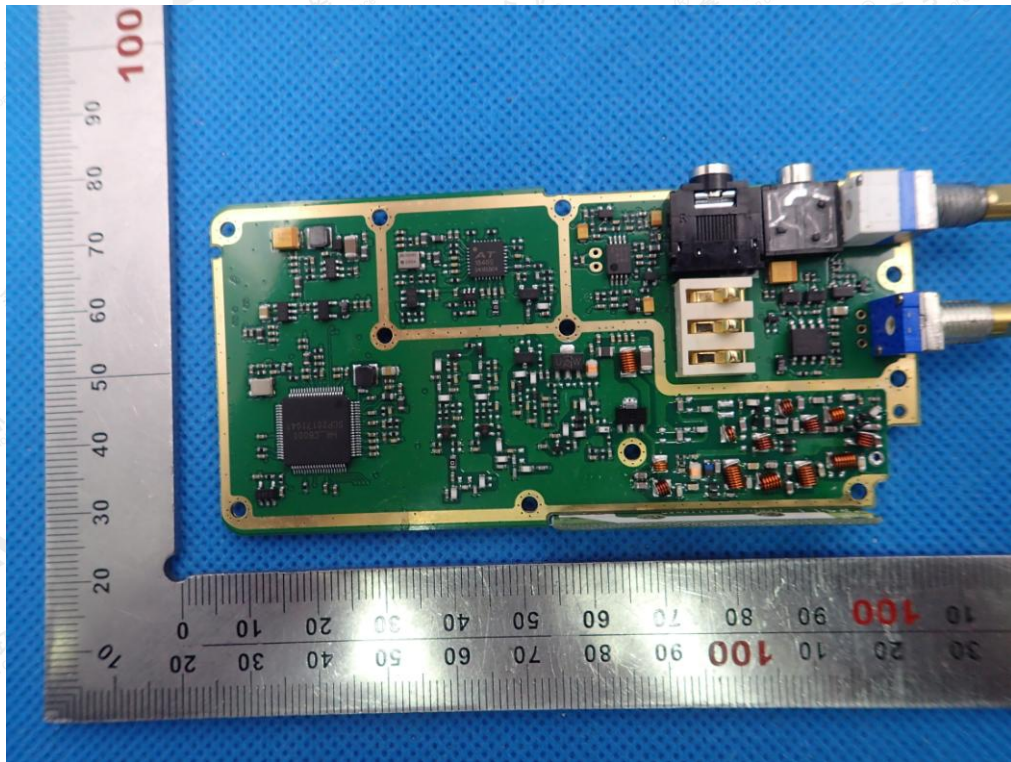


INTERNAL VIEW-1 OF EUT

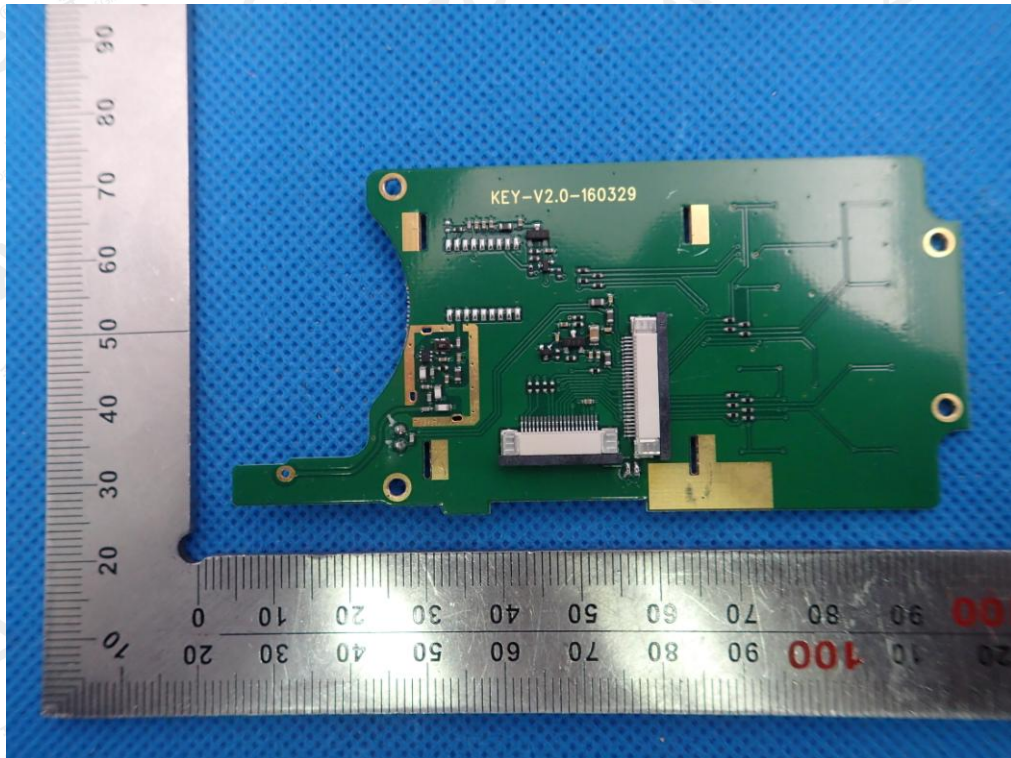


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INTERNAL VIEW-2 OF EUT

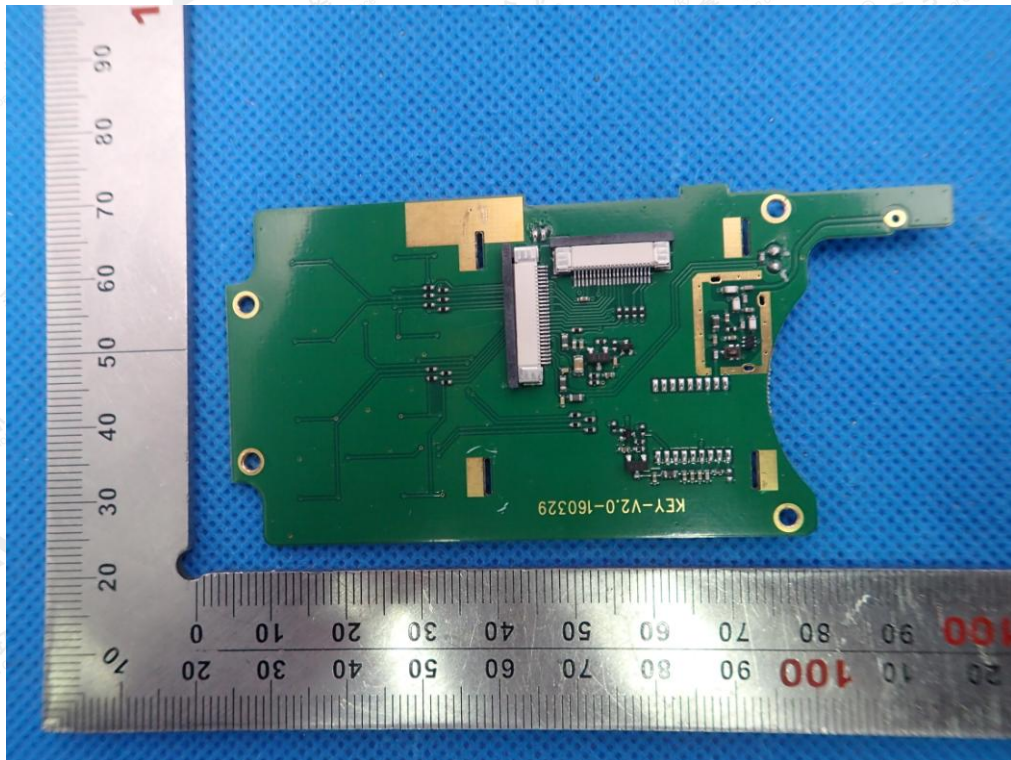


INTERNAL VIEW-3 OF EUT



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INTERNAL VIEW-4 OF EUT



-----END OF REPORT-----

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