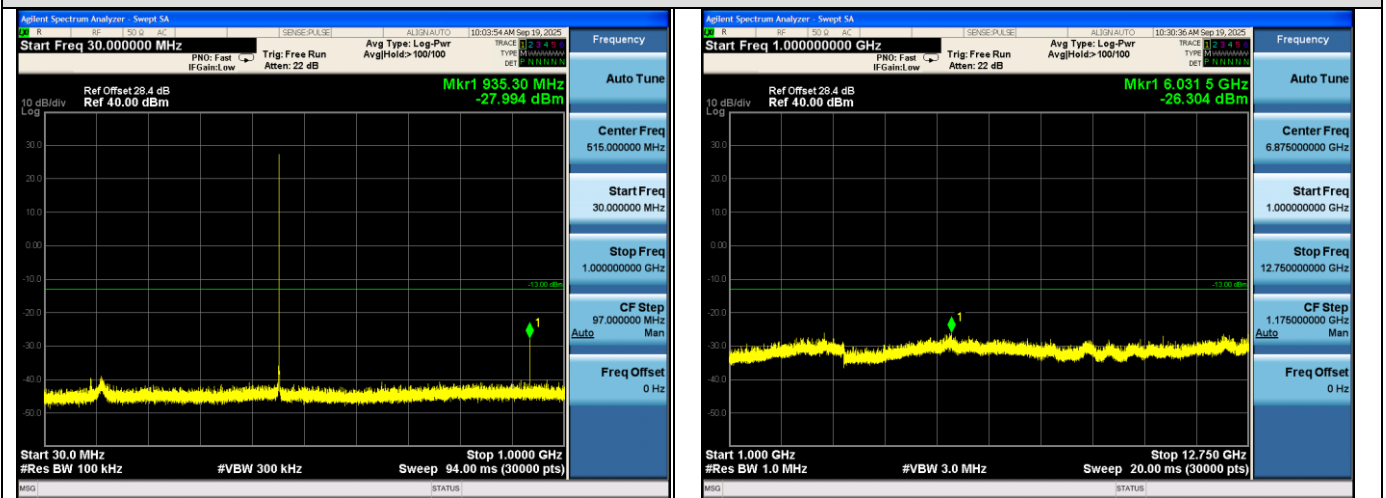
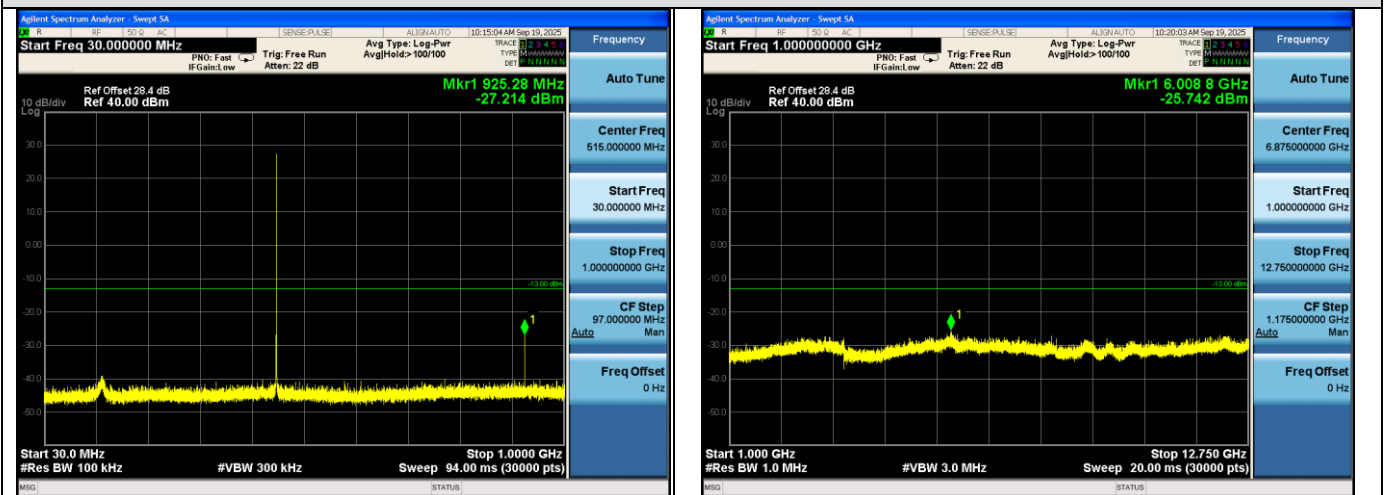


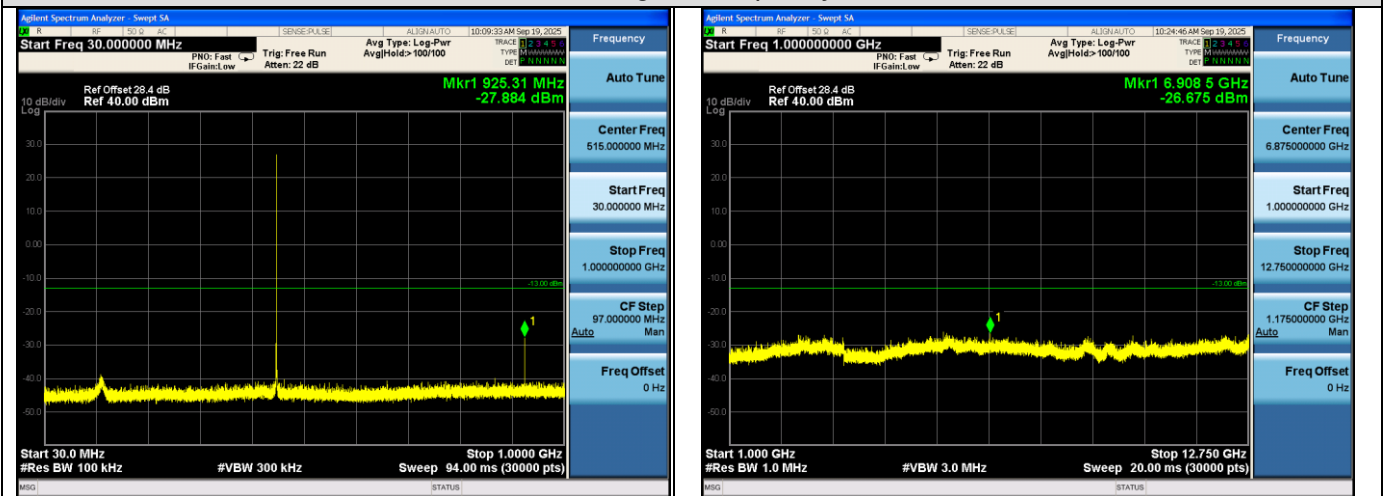
12.5kHz, FM modulation, Assigned Frequency:467.6375MHz, 0.5W



25kHz, FM modulation, Assigned Frequency:462.6375MHz, 0.5W

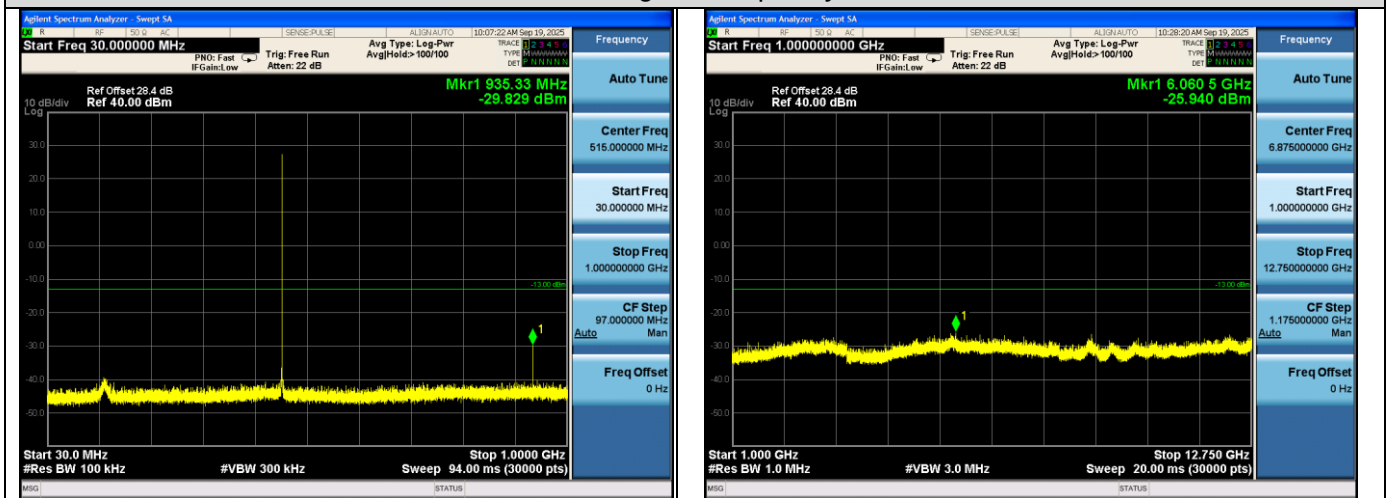


25kHz, FM modulation, Assigned Frequency:462.6500MHz, 0.5W

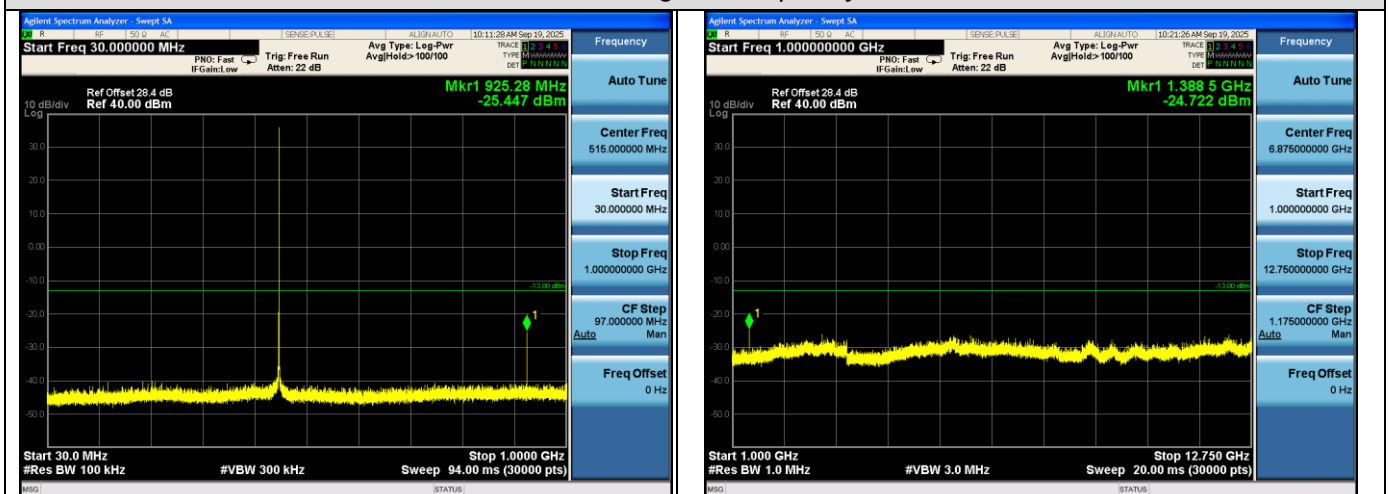


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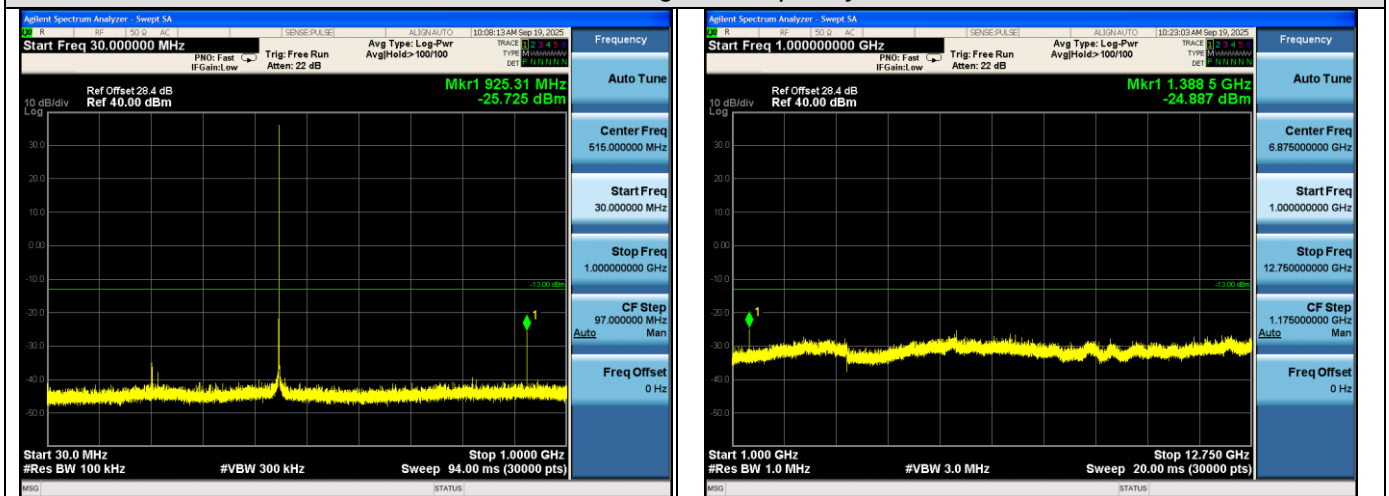
25kHz, FM modulation, Assigned Frequency:467.6500MHz, 0.5W



12.5kHz, FM modulation, Assigned Frequency:462.6375MHz, 4W

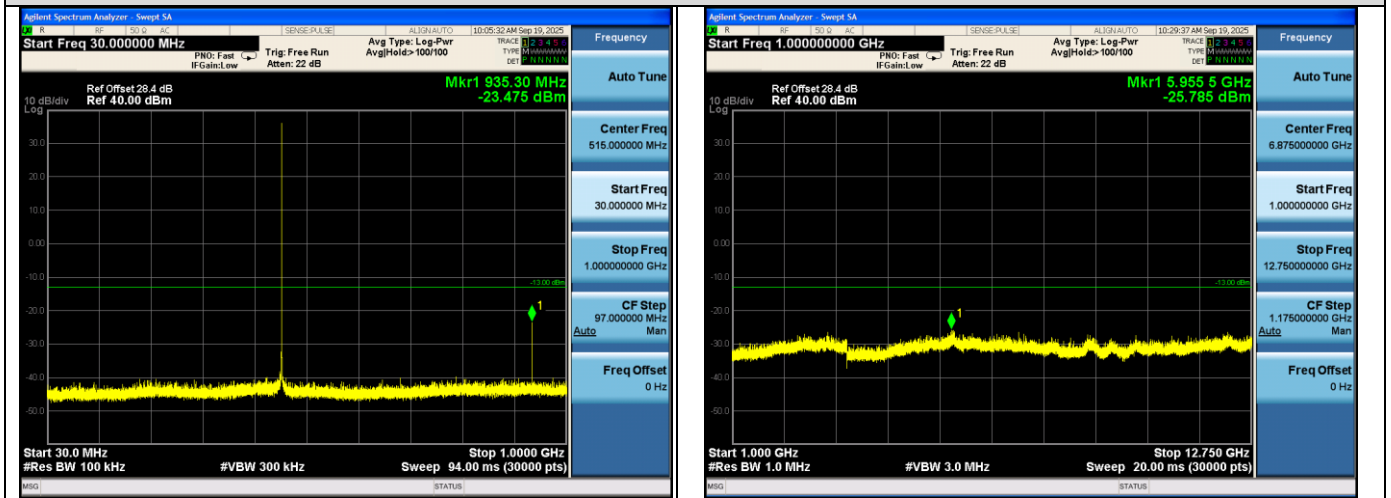


12.5kHz, FM modulation, Assigned Frequency:462.6500MHz, 4W

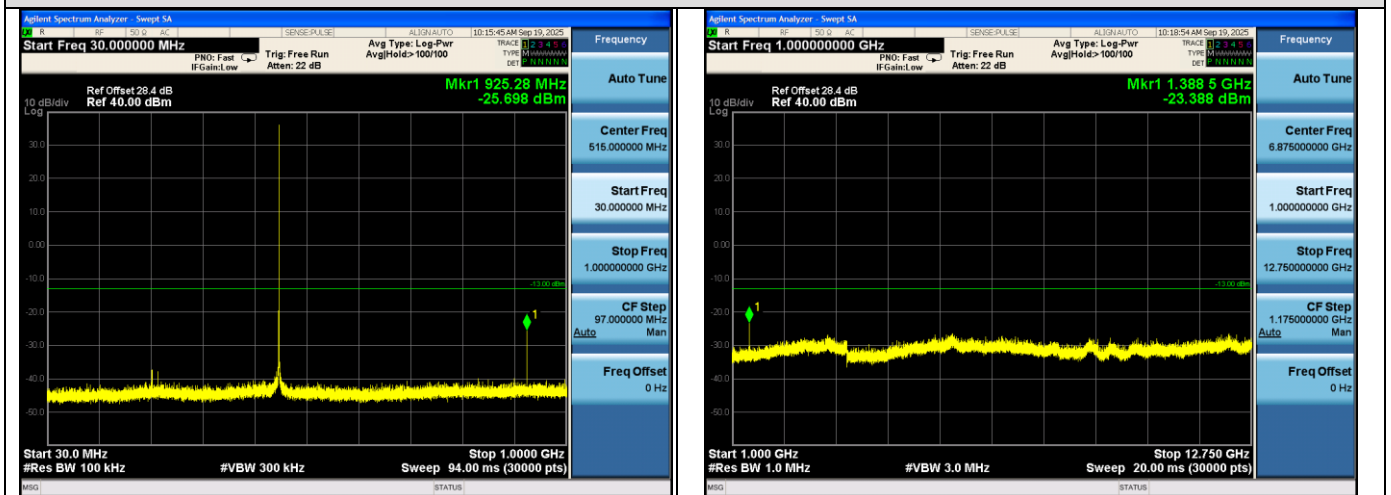


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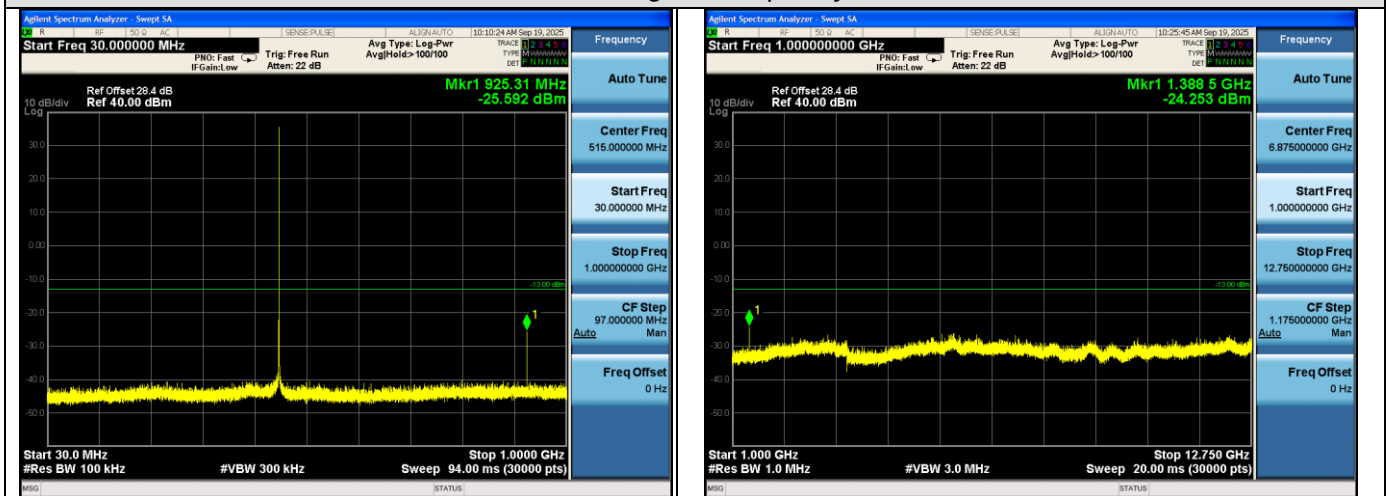
12.5kHz, FM modulation, Assigned Frequency:467.6500MHz, 4W



25kHz, FM modulation, Assigned Frequency:462.6375MHz, 4W

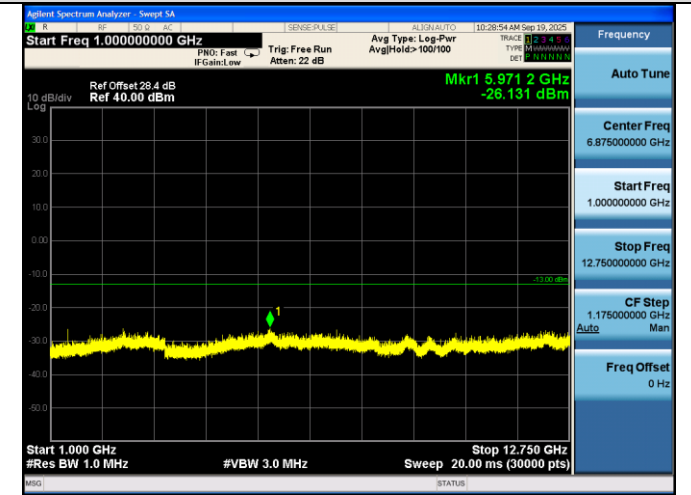
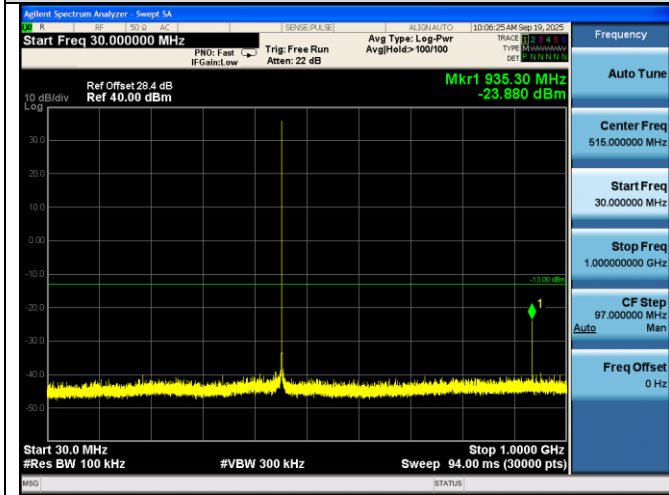


25kHz, FM modulation, Assigned Frequency:462.6500MHz, 4W



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25kHz, FM modulation, Assigned Frequency:467.6500MHz, 4W



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Attestation of Global Compliance(Shenzhen)Co., Ltd  
Attestation of Global Compliance(Shenzhen)Std & Tech Co., Ltd  
Tel: +86-755 2523 4088 E-mail: agc@agccert.com Web: <http://www.agccert.com/>

## 12. Audio Low Pass Filter Response

### 12.1 Provisions Applicable

§95.1775 GMRS modulation requirements

Audio filter. Each GMRS transmitter type must include audio frequency low pass filtering, unless it complies with the applicable paragraphs of §95.1779 (without filtering).

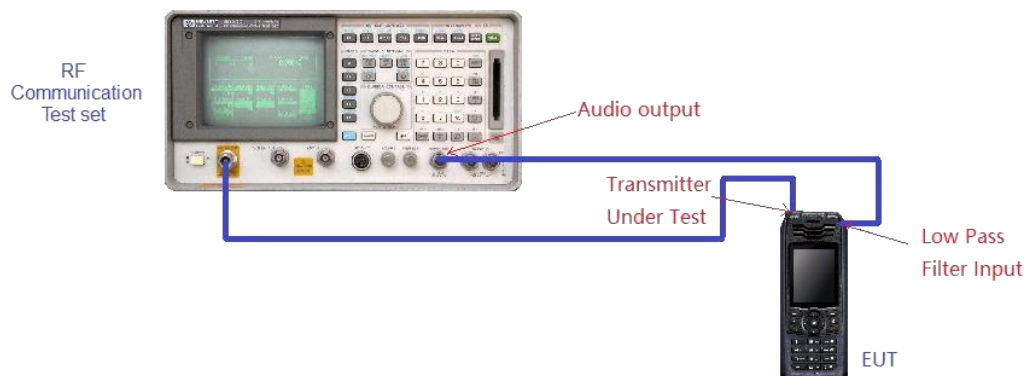
The filter must be between the modulation limiter and the modulated stage of the transmitter.

At any frequency ( $f$  in kHz) between 3 and 20 kHz, the filter must have an attenuation of at least  $60 \log(f/3)$  dB more than the attenuation at 1 kHz. Above 20 kHz, it must have an attenuation of at least 50 dB more than the attenuation at 1 kHz

### 12.2 Measurement Procedure

1. The DUT transmitter output port was connected to Modulation Analyzer.
2. Path loss for the measurement included.
3. Press 23.1SPCL on modulation analyzer to enable the external LO from Siggen.
4. Set the Siggen frequency to  $F_c + 1.5\text{MHz}$ , RF output level to 0dBm without modulation.
5. Transmit the radio and set the audio analyzer to 1 kHz audio frequency and 60% of the maximum deviation.
6. Up the amplitude by 20dB.
7. On DSA, get the reference point to 0dB.
8. Vary the frequency on audio analyzer from 3 kHz to 30 kHz, record the audio tone from DSA.

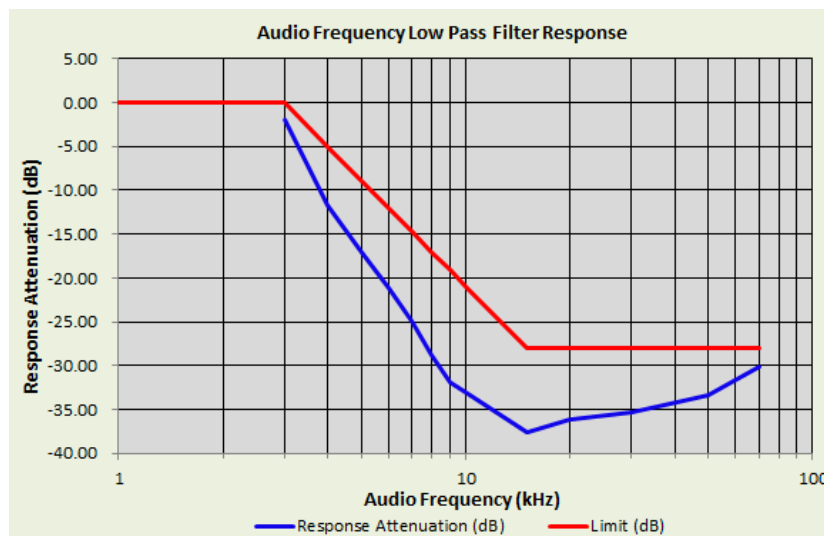
### 12.3 Measurement Setup



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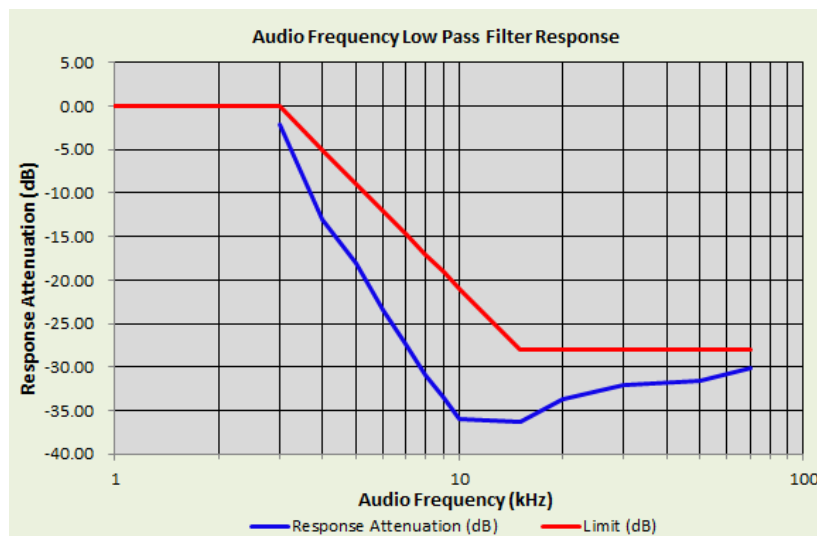
## 12.4 Measurement Result

| 12.5kHz, FM modulation, Assigned Frequency:462.6500MHz-4W |                           |            |
|-----------------------------------------------------------|---------------------------|------------|
| Audio Frequency (kHz)                                     | Response Attenuation (dB) | Limit (dB) |
| 1                                                         | 0                         | /          |
| 3                                                         | -1.92                     | 0.00       |
| 4                                                         | -11.74                    | -5.00      |
| 5                                                         | -17.12                    | -8.87      |
| 6                                                         | -21.16                    | -12.04     |
| 7                                                         | -24.88                    | -14.72     |
| 8                                                         | -28.81                    | -17.04     |
| 9                                                         | -31.90                    | -19.08     |
| 10                                                        | -33.08                    | -20.92     |
| 15                                                        | -37.63                    | -28.00     |
| 20                                                        | -36.15                    | -28.00     |
| 30                                                        | -35.36                    | -28.00     |
| 50                                                        | -33.33                    | -28.00     |
| 70                                                        | -30.15                    | -28.00     |



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| 25kHz, FM modulation, Assigned Frequency:462.6500MHz-4W |                           |            |
|---------------------------------------------------------|---------------------------|------------|
| Audio Frequency (kHz)                                   | Response Attenuation (dB) | Limit (dB) |
| 1                                                       | 0                         | /          |
| 3                                                       | -2.03                     | 0.00       |
| 4                                                       | -12.99                    | -5.00      |
| 5                                                       | -18.06                    | -8.87      |
| 6                                                       | -23.40                    | -12.04     |
| 7                                                       | -27.30                    | -14.72     |
| 8                                                       | -30.97                    | -17.04     |
| 9                                                       | -33.59                    | -19.08     |
| 10                                                      | -36.04                    | -20.92     |
| 15                                                      | -36.36                    | -28.00     |
| 20                                                      | -33.69                    | -28.00     |
| 30                                                      | -32.15                    | -28.00     |
| 50                                                      | -31.52                    | -28.00     |
| 70                                                      | -30.15                    | -28.00     |



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

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### **Appendix I: Photographs of Test Setup**

Refer to the Report No.: AGC00319250905AP01

### **Appendix II: Photographs of Test EUT**

Refer to the Report No.: AGC00319250905AP02

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3. The Company shall not be called or be liable to be called to give evidence or testimony on the Report in a court of law without its prior written consent, unless required by the relevant governmental authorities, laws or court orders.
4. In the event of the improper use of the report as determined by the Company, the Company reserves the right to withdraw it, and to adopt any other additional remedies which may be appropriate.
5. Samples submitted for testing are accepted on the understanding that the Report issued cannot form the basis of, or be the instrument for, any legal action against the Company.
6. The Company will not be liable for or accept responsibility for any loss or damage however arising from the use of information contained in any of its Reports or in any communication whatsoever about its said tests or investigations.
7. Clients wishing to use the Report in court proceedings or arbitration shall inform the Company to that effect prior to submitting the sample for testing.
8. The Company is not responsible for recalling the electronic version of the original report when any revision is made to them. The Client assumes the responsibility to providing the revised version to any interested party who uses them.
9. Subject to the variable length of retention time for test data and report stored hereinto as otherwise specifically required by individual accreditation authorities, the Company will only keep the supporting test data and information of the test report for a period of six years. The data and information will be disposed of after the aforementioned retention period has elapsed. Under no circumstances shall we provide any data and information which has been disposed of after retention period. Under no circumstances shall we be liable for damage of any kind, including (but not limited to) compensatory damages, lost profits, lost data, or any form of special, incidental, indirect, consequential or punitive damages of any kind, whether based on breach of contract of warranty, tort (including negligence), product liability or otherwise, even if we are informed in advance of the possibility of such damages.

-----End of Report-----

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