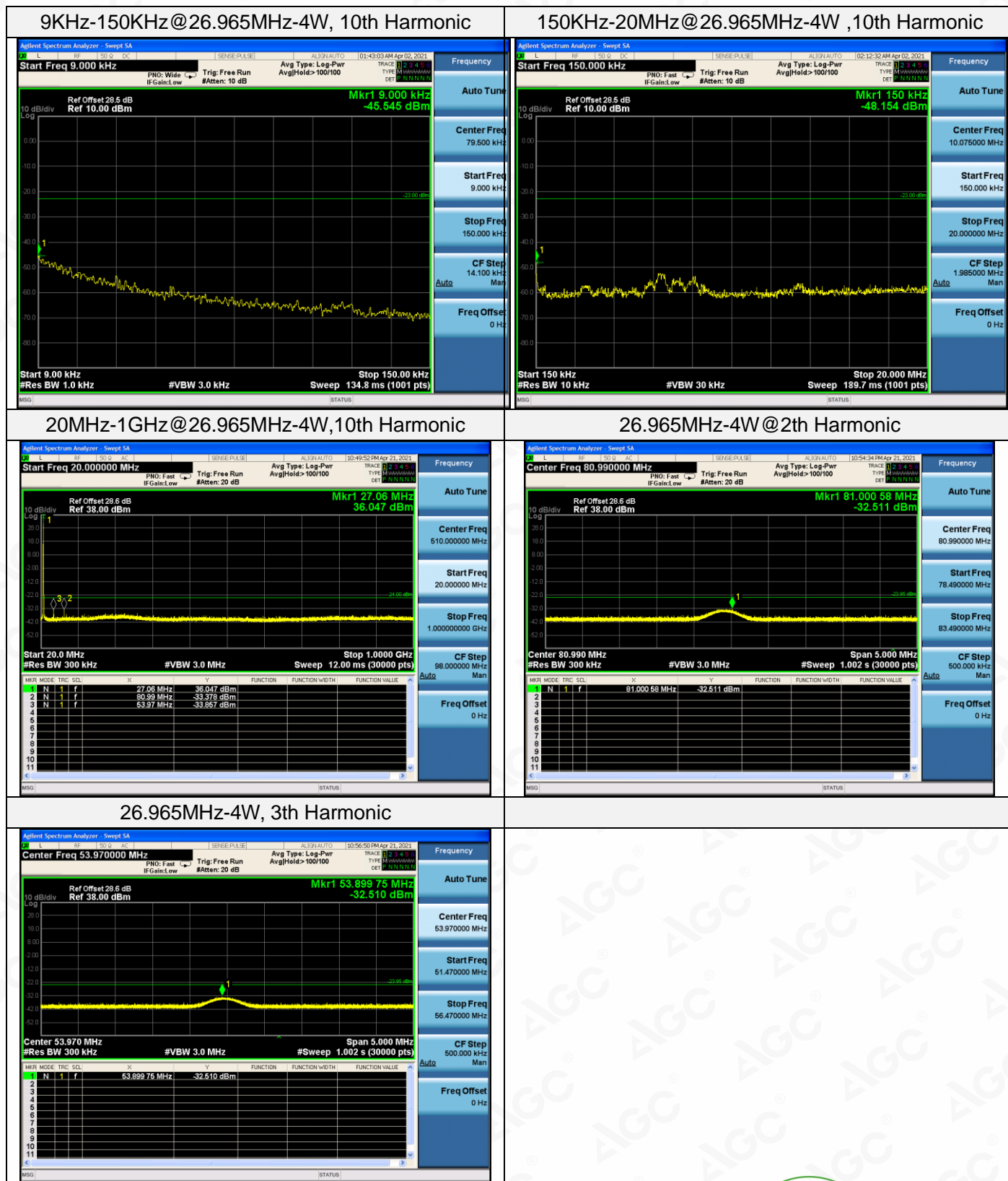


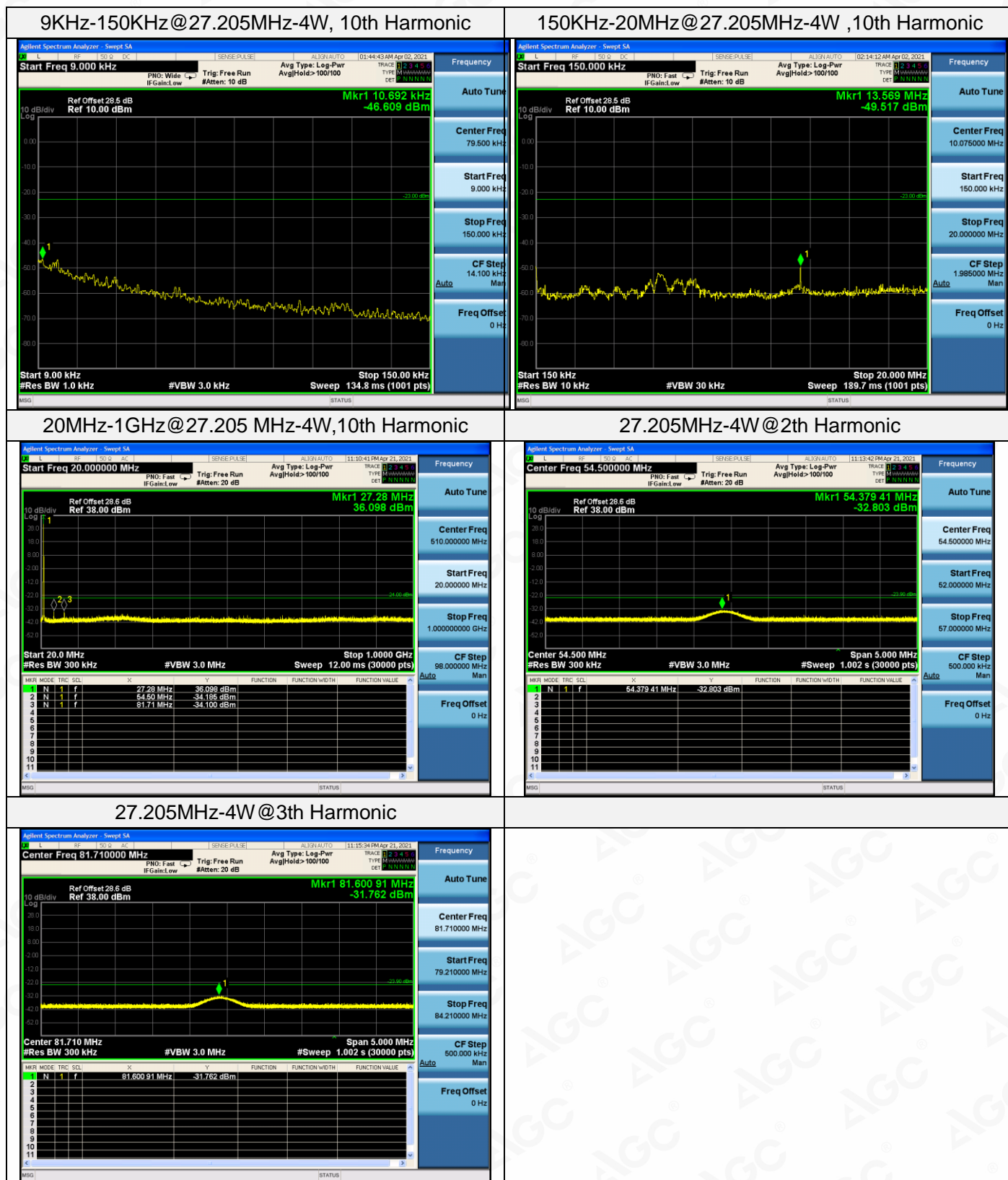
9.4 MEASUREMENT RESULTS



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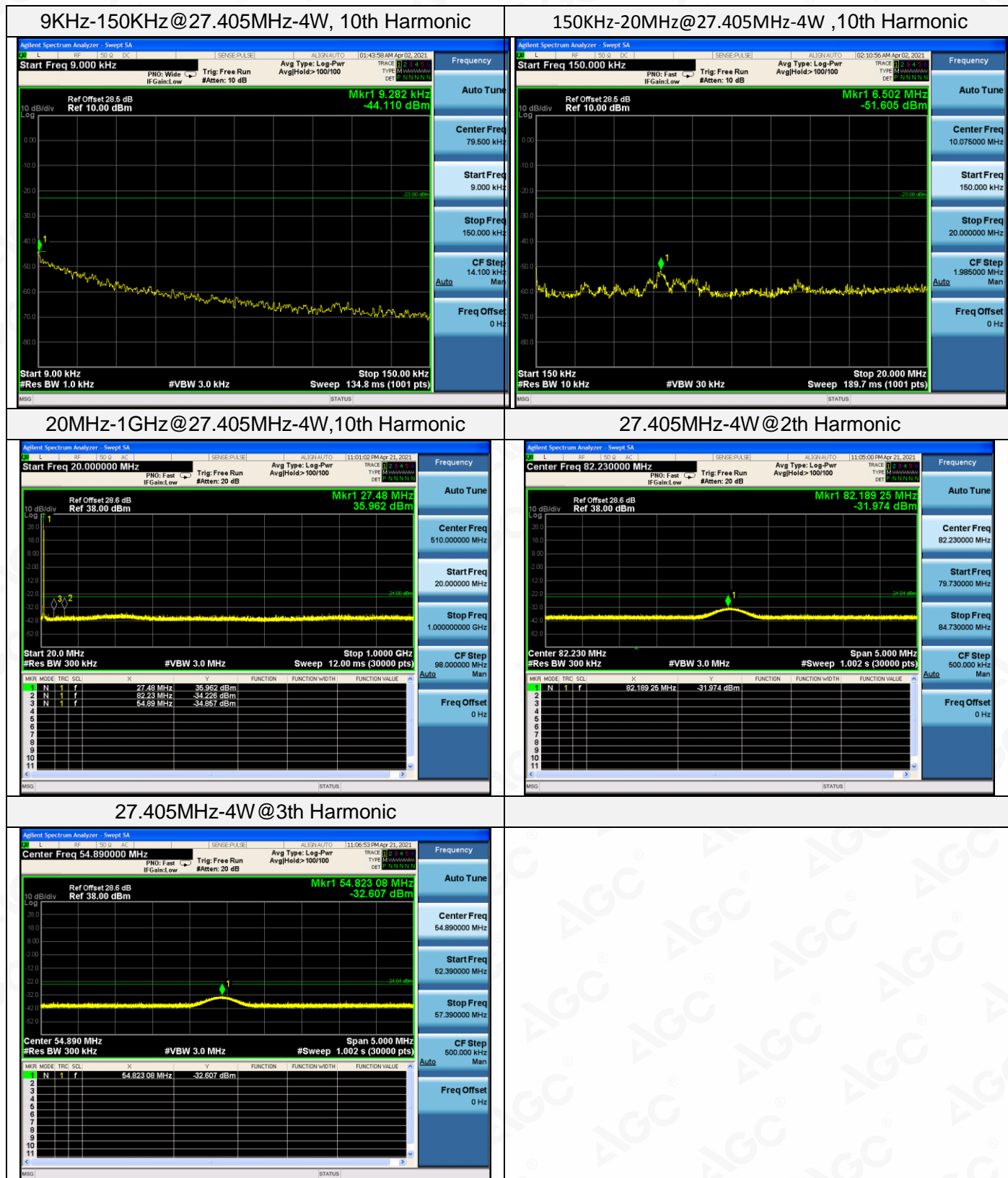




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10. MAXIMUM TRANSMITTER POWER

10.1 PROVISIONS APPLICABLE

FCC Part 95.967, FCC Part 2.1046(a)

Each CBRS transmitter type must be designed such that the transmitter power can not exceed the following limits:

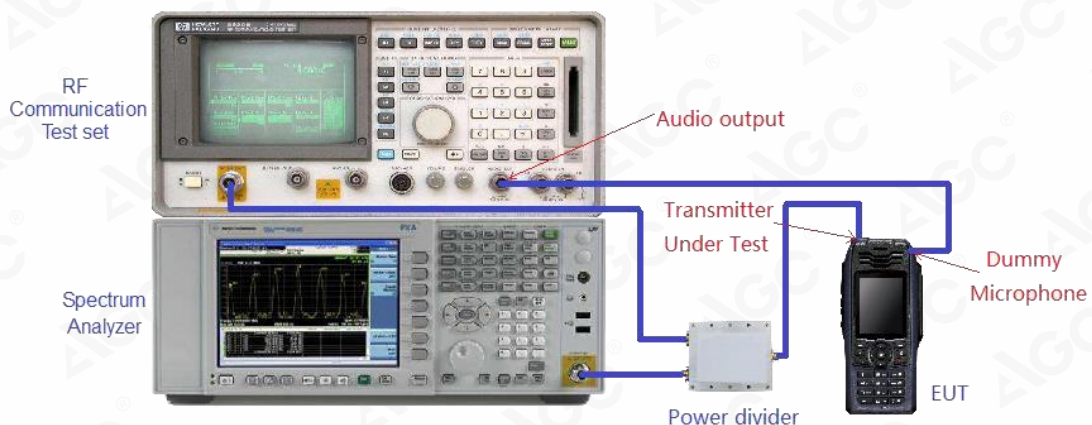
- (a) When transmitting amplitude modulated (AM) voice signals, the mean carrier power must not exceed 4 Watts.
- (b) When transmitting single sideband (SSB) voice signals, the peak envelope power must not exceed 12 Watts.

10.2 MEASUREMENT METHOD

Conducted RF Output Power:

1. The RF output of the transmitter was connected to the input of the spectrum analyzer through sufficient attenuation.
2. The DUT was connected to a Spectrum Analyzer (SA) via a 30dB attenuator connected to the DUT's antenna port. The SA was configured as above using the Automatic 6dB Cursor Bandwidth measurement. The output power of the DUT was set to the manufacturer's highest output power setting at the Low, Mid and High frequency channels as permitted by the device. The DUT was set to transmit at its maximum Duty Cycle.
3. Spectrum set as follow:
Centre frequency = fundamental frequency, Span=150kHz , RBW=30KHz, VBW=30KHz ;
Sweep = auto, Detector function = peak, Trace = max hold

10.3 MEASUREMENT SETUP



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10.4 MEASUREMENT RESULTS

Conducted Power Measurement Results			
Mode	Channel Separation	Test Channel	Measurement Result (dBm)
CBRS TX	10 kHz	26.965 MHz	35.996
		27.205 MHz	36.001
		27.405 MHz	36.012

Test plot as follows:



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11. MODULATION CHARACTERISTICS

11.1 PROVISIONS APPLICABLE

FCC Part 95.975, FCC Part 2.1047(b)

Each CBRS transmitter type must be designed such that the modulation characteristics are in compliance with the rules in this section.

When emission type A3E is transmitted with voice modulation, the modulation percentage must be at least 85%, but not more than 100%.

When emission type A3E is transmitted by a CBRS transmitter having a transmitter output power of more than 2.5 W, the transmitter must contain a circuit that automatically prevents the modulation percentage from exceeding 100%.

11.2 MEASUREMENT METHOD

(A) Audio frequency response

Connect the equipment as illustrated.

Adjust to deliver 50% modulation at the audio frequency that produces the maximum modulation level

Record the modulation input level (mV) and use this level as 0dB for plotting modulation limiting.

Vary the modulating frequency from 100Hz to 10000Hz and record the input levels necessary to maintain a constant 50% modulation.

Graph the audio level in dB relative to the 0dB reference level as a function of the modulating frequency. Record audio frequency where it is impossible to perform the measurement.

(B) Modulation limiting

Connect the equipment as illustrated.

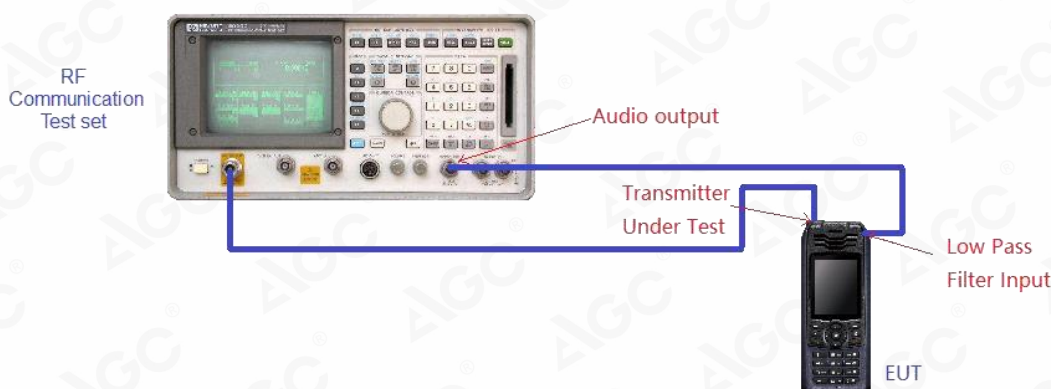
Adjust to deliver 50% modulation at the audio frequency that produces the maximum modulation level

Record the modulation input level (mV) and use this level as 0dB for plotting modulation limiting.

Increment the audio signal level to 40dB above the reference level. Record the modulation level (%).

Repeat the measurements using a 400Hz and a 2500Hz sinusoidal audio signal, record the modulation level (%), perform for both positive and negative modulation.

11.3 MEASUREMENT SETUP



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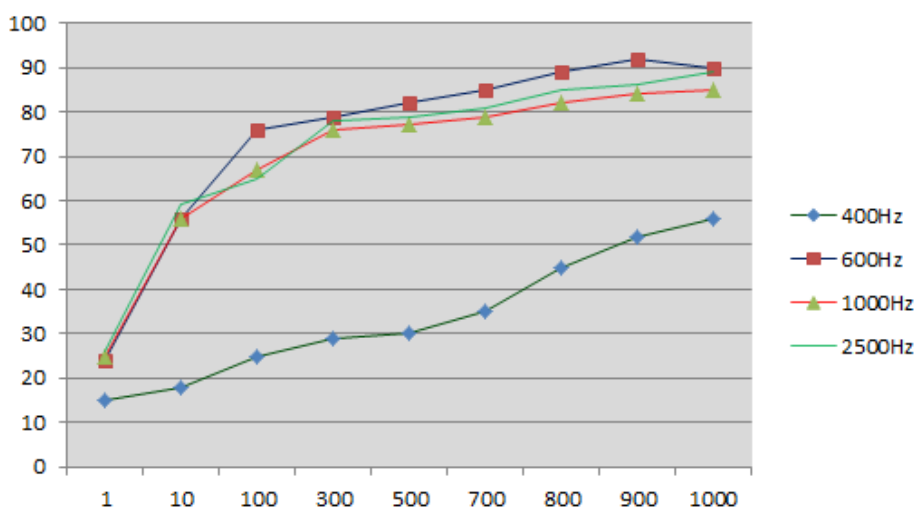
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11.4 MEASUREMENT RESULTS

(A). MODULATION LIMIT:

10kHz, AM modulation, Assigned Frequency:27.405MHz-4W				
Modulation Level (mV)	Peak Freq. Deviation At 400 Hz (%)	Peak Freq. Deviation At 600 Hz (%)	Peak Freq. Deviation At 1000 Hz (%)	Peak Freq. Deviation At 2500 Hz (%)
1	15	24	25	26
10	18	56	56	59
100	25	76	67	65
300	29	79	76	78
500	30	82	77	79
700	35	85	79	81
800	45	89	82	85
900	52	92	84	86
1000	56	90	85	89



Note:

1. All the modes had been tested, but only the worst data recorded in the report
2. The equipment circuit comes with circuit control that automatically prevents the modulation limit from exceeding 100%.

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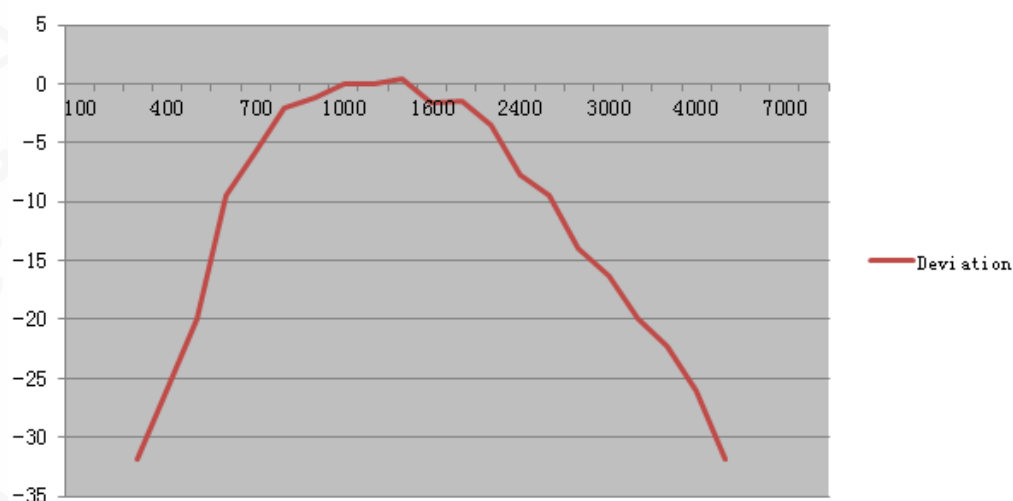
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(B). AUDIO FREQUENCY RESPONSE:

10kHz, AM modulation, Assigned Frequency:27.405MHz-4W			
Frequency (Hz)	modulation level (mV)	Deviation (kHz)	Audio Frequency Response(dB)
100		--	--
200		--	--
300	14.20	0.01	-31.82
400	8.50	0.02	-25.80
500	7.50	0.08	-20.00
600	6.25	0.13	-9.54
700	5.80	0.41	-5.81
800	5.40	0.31	-1.99
900	5.30	0.34	-1.19
1000	5.20	0.39	0.00
1200	5.20	0.39	0.00
1400	5.40	0.41	0.43
1600	5.75	0.66	-1.67
1800	6.80	0.33	-1.45
2000	7.25	0.26	-3.52
2400	7.60	0.33	-7.69
2500	7.90	0.13	-9.54
2800	8.50	0.16	-13.98
3000	8.62	0.06	-16.26
3200	8.80	0.08	-20.00
3600	9.10	0.03	-22.28
4000	9.70	0.04	-26.02
6000	11.26	0.01	-31.82
7500	--	--	--
9000	--	--	--
10000	--	--	--

**Audio Frequency Response@50%MI
10 KHz Channel Separations**



Note:1.All the modes had been tested, but only the worst data recorded in the report.

2. 50% MI Could not be achieved above 7500 Hz.

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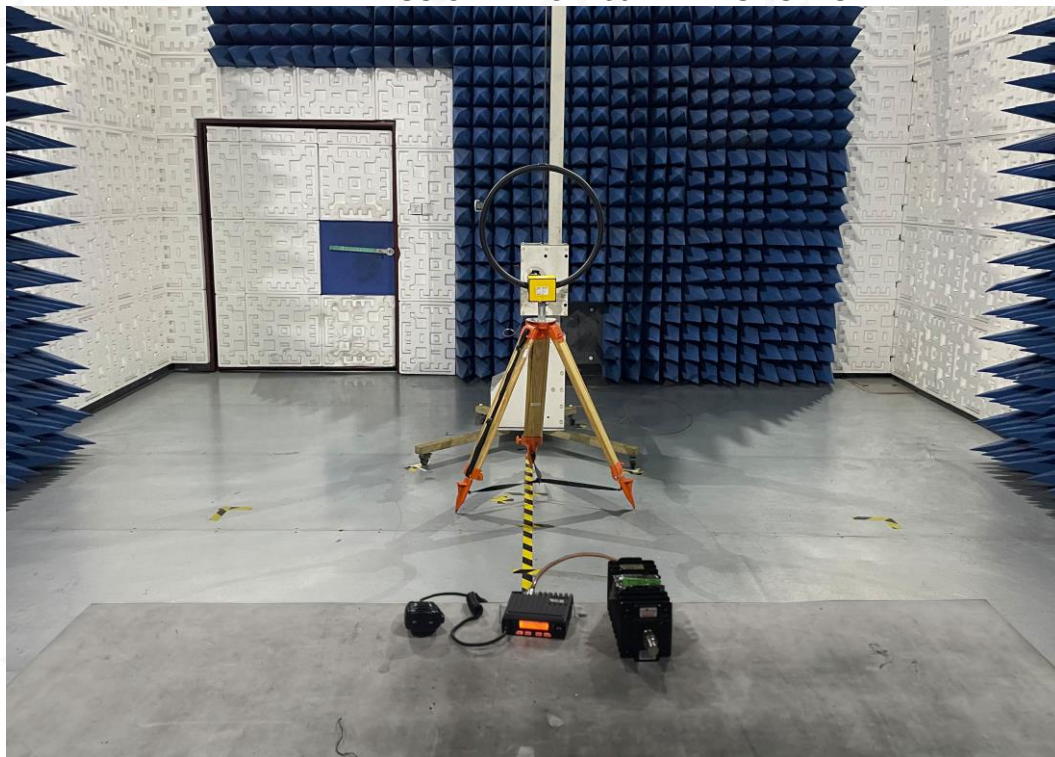
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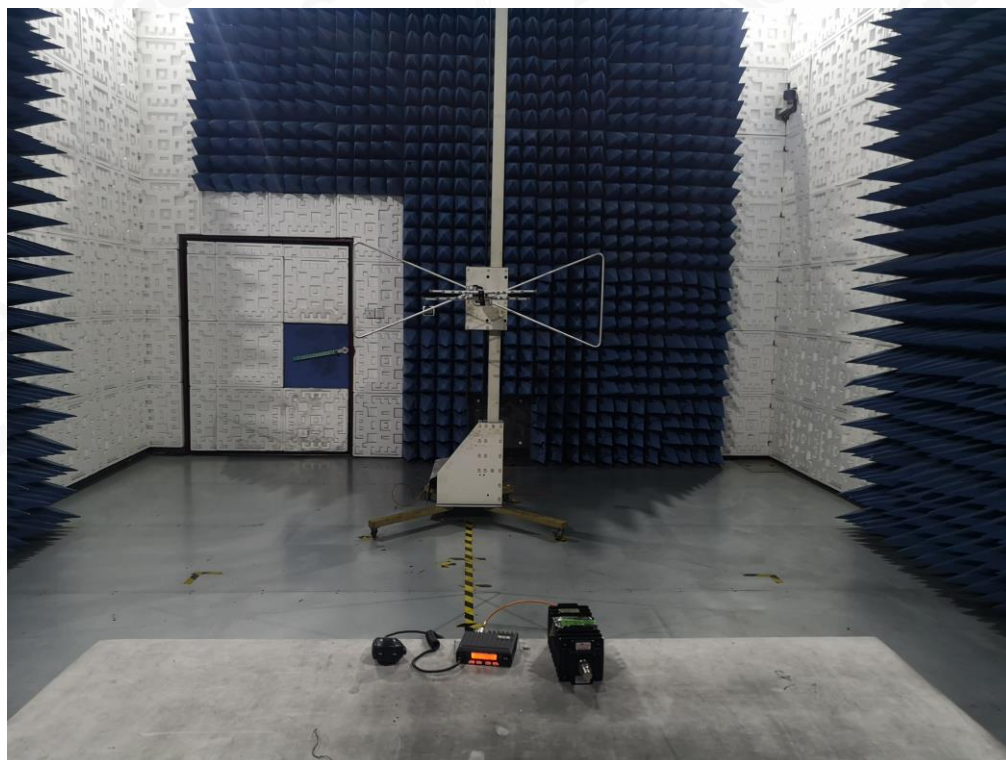


APPENDIX I: PHOTOGRAPHS OF TEST SETUP

RADIATED EMISSION BELOW 30MHz TEST SETUP



RADIATED EMISSION 30MHz-1GHz TEST SETUP



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APPENDIX II: PHOTOGRAPHS OF TEST EUT

Refer to the Report No.: AGC01284210303AP01

----END OF REPORT----

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2. Any report issued by Company as a result of this application for testing services (the “Report”) shall be issued in confidence to the Clients and the Report will be strictly treated as such by the Company. It may not be reproduced either in its entirety or in part and it may not be used for advertising or other unauthorized purposes without the written consent of the Company. The Clients to whom the Report is issued may, however, show or send it, or a certified copy thereof prepared by the Company to its customer, supplier or other persons directly concerned. The Company will not, without the consent of the Clients, enter into any discussion or correspondence with any third party concerning the contents of the Report, unless required by the relevant governmental authorities, laws or court orders.
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. The non-CMA report issued by AGC is only permitted to be used by the client as internal reference use and shall not be used for public demonstration purpose.
5. 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.
6. 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.
7. 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.
8. 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.
9. 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.
10. 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.

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