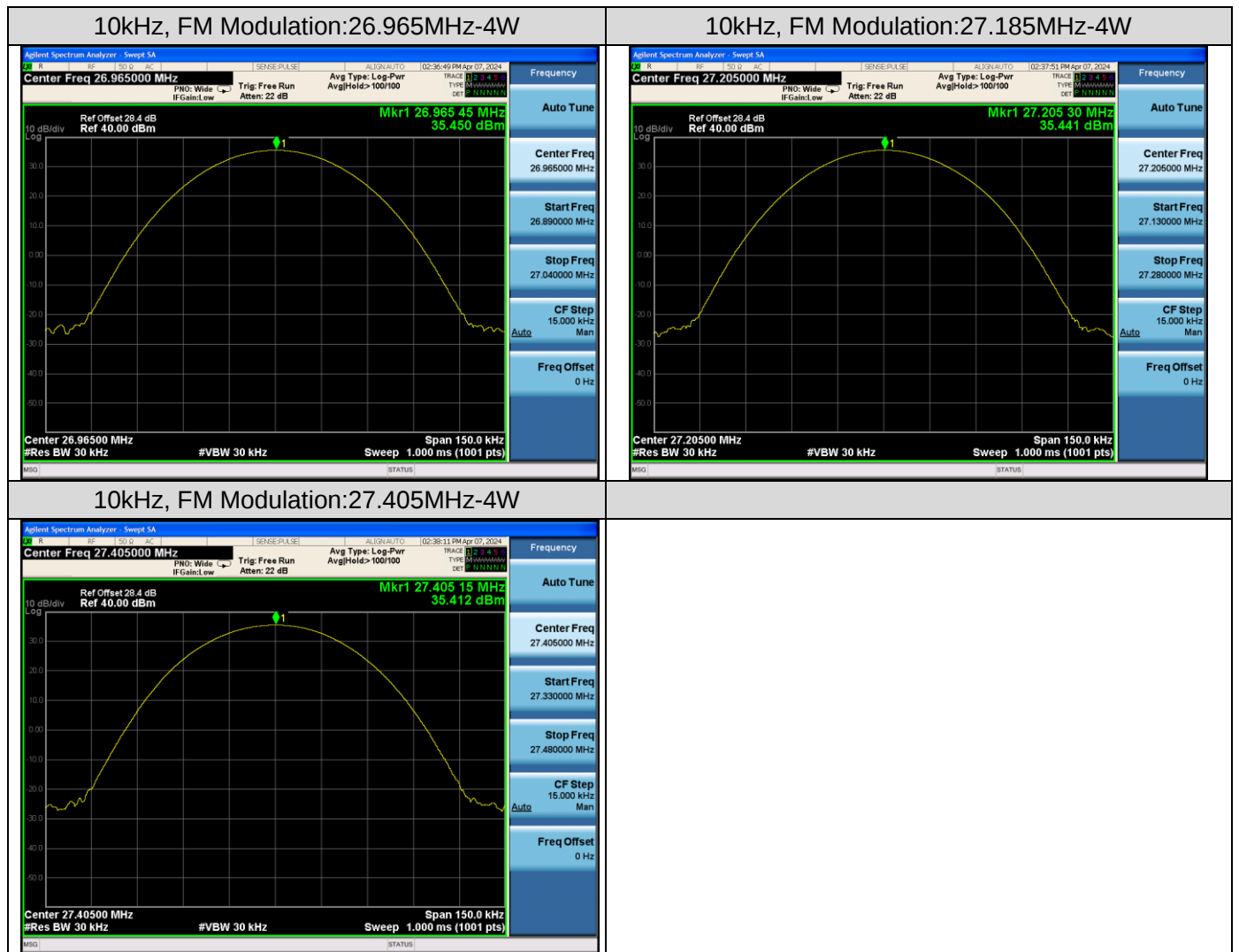


Conducted Power Measurement Results			
Mode	Channel Separation	Test Channel	Measurement Result (dBm)
CBRS TX	10 kHz	26.965 MHz	35.45
		27.205 MHz	35.44
		27.405 MHz	35.41

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.

- a) When emission type A3E is transmitted with voice modulation, the modulation percentage must be at least 85%, but not more than 100%.
- b) 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%.
- c) When emission type F3E is transmitted the peak frequency deviation shall not exceed ± 2 kHz.

11.2 Measurement Method_(Am)

(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 Method_(Fm)

(C) Modulation limiting

- (1). Configure the EUT as shown in figure 1, adjust the audio input for 60% of rated system deviation at 1kHz using this level as a reference (0dB) and vary the input level from -20 to +20dB. Record the frequency deviation obtained as a function of the input level.
- (2). Repeat step 1 with input frequency changing to 300, 1000, 1500 and 3000Hz in sequence.

(D) Audio frequency response

- (1). Configure the EUT as shown in figure 1.
- (2). Adjust the audio input for 20% of rated system deviation at 1 kHz using this level as a reference (0 dB).
- (3). Vary the Audio frequency from 100 Hz to 10 kHz and record the frequency deviation.
- (4). Audio Frequency Response = $20\log_{10}$ (Deviation of test frequency/Deviation of 1 kHz reference).

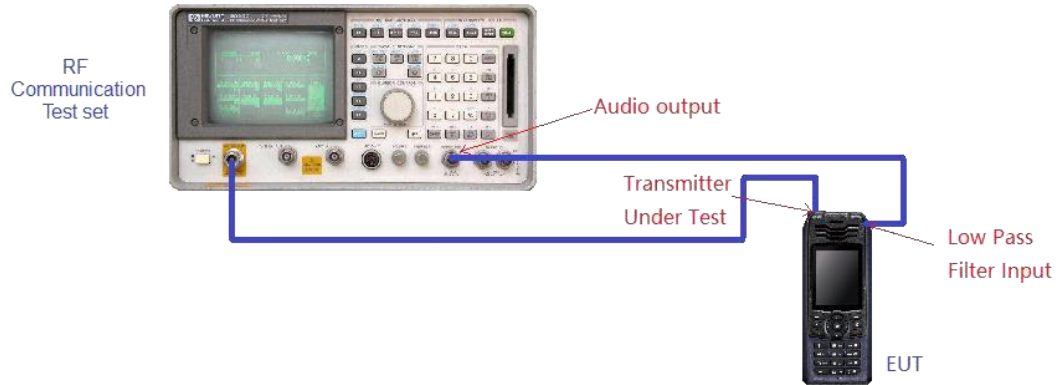
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11.4 Measurement Setup

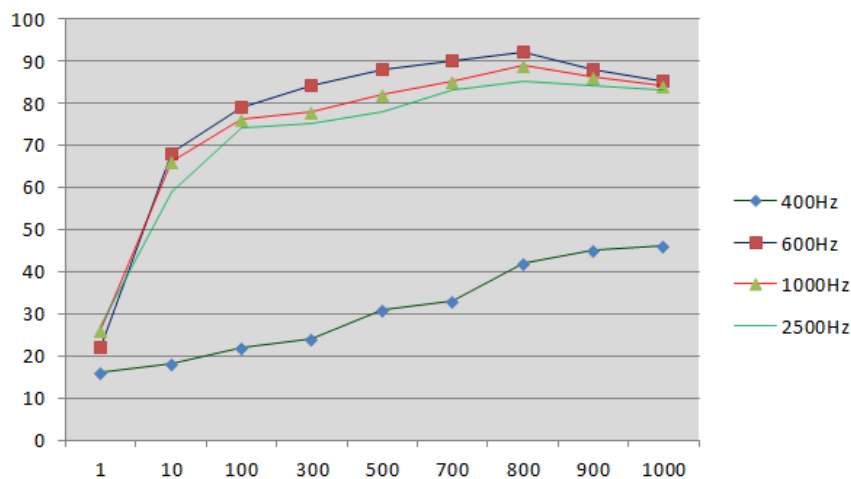


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11.5 Measurement Results

(A). Modulation Limit:

10kHz, AM modulation, Assigned Frequency:27.405MHz				
Modulation Level (mV)	Peak Freq. Deviation At 300 Hz (%)	Peak Freq. Deviation At 600 Hz (%)	Peak Freq. Deviation At 1000 Hz (%)	Peak Freq. Deviation At 2500 Hz (%)
1	16	22	26	27
10	18	68	66	59
100	22	79	76	74
300	24	84	78	75
500	31	88	82	78
700	33	90	85	83
800	42	92	89	85
900	45	88	86	84
1000	46	85	84	83



Note:

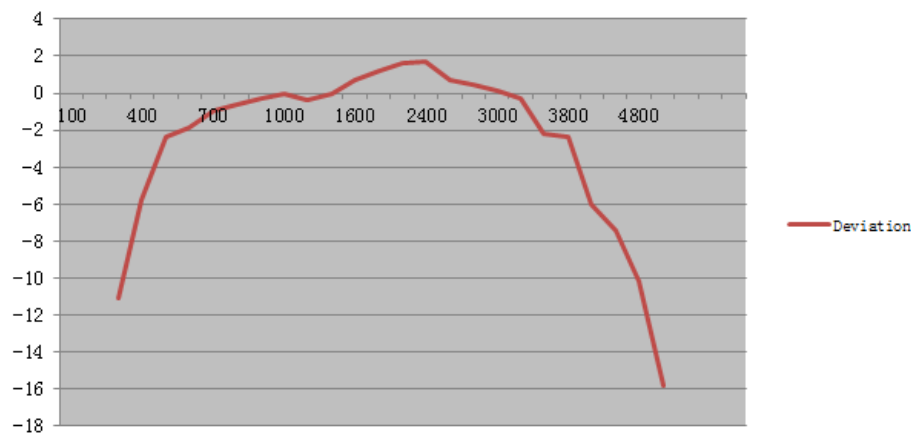
1. All the modes had been tested, but only the worst data recorded in the report
2. The equipment circuit comes with circuit control that automatically prevents the modulation limit from exceeding 100%.

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(B). Audio Frequency Response:

10kHz, AM modulation, Assigned Frequency:27.405MHz			
Frequency (Hz)	modulation level (mV)	Deviation (kHz)	Audio Frequency Response(dB)
100		--	--
200		--	--
300	19.14	0.19	-11.08
400	13.46	0.35	-5.77
500	12.02	0.52	-2.33
600	8.94	0.55	-1.84
700	7.14	0.61	-0.94
800	7.23	0.63	-0.66
900	6.42	0.66	-0.26
1000	6.39	0.68	0.00
1200	6.74	0.65	-0.39
1400	6.52	0.68	0.00
1600	5.44	0.74	0.73
1800	5.37	0.78	1.19
2000	5.41	0.82	1.63
2400	5.19	0.83	1.73
2500	5.23	0.74	0.73
2800	5.21	0.72	0.50
3000	6.41	0.69	0.13
3200	7.36	0.66	-0.26
3600	8.41	0.53	-2.16
3800	9.69	0.52	-2.33
4000	10.74	0.34	-6.02
4200	11.05	0.29	-7.40
4800	14.10	0.21	-10.21
5200	19.33	0.11	-15.82
6000	--	--	--

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



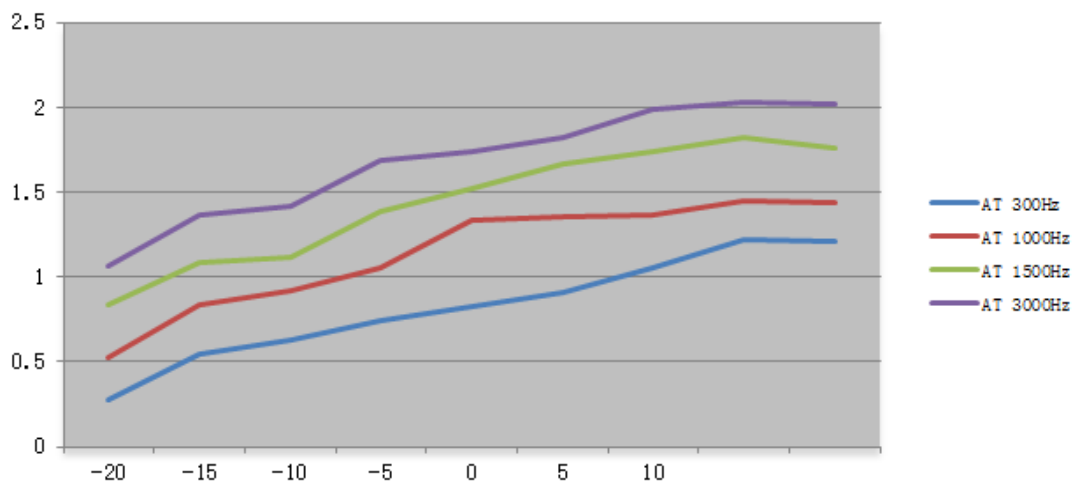
Note:1.All the modes had been tested, but only the worst data recorded in the report.

2. 50% MI Could not be achieved above 5200 Hz.

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(C). Modulation Limit:

10kHz, FM modulation, Assigned Frequency:27.405MHz				
Modulation Level (dB)	Peak Freq. Deviation At 300 Hz (kHz)	Peak Freq. Deviation At 1000 Hz (kHz)	Peak Freq. Deviation At 1500 Hz (kHz)	Peak Freq. Deviation At 3000 Hz (kHz)
-20	0.28	0.52	0.83	1.06
-15	0.54	0.83	1.08	1.36
-10	0.63	0.92	1.12	1.42
-5	0.74	1.05	1.38	1.69
0	0.82	1.33	1.52	1.74
+5	0.91	1.35	1.66	1.82
+10	1.05	1.36	1.74	1.99
+15	1.22	1.45	1.82	2.03
+20	1.21	1.44	1.76	2.02



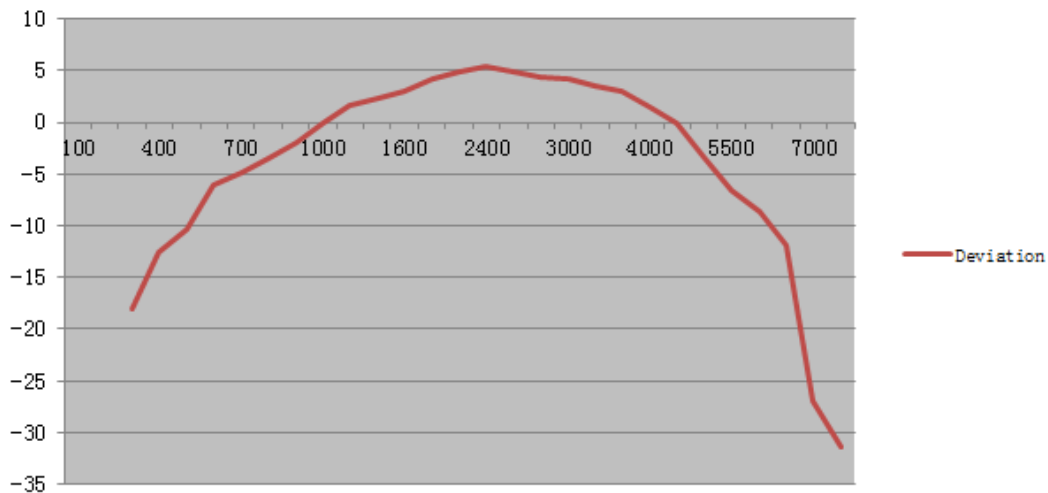
Note: All the modes had been tested, but only the worst data recorded in the report

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(D). Audio Frequency Response:

10kHz, Analog modulation, Assigned Frequency:27.405MHz		
Frequency (Hz)	Deviation (kHz)	Audio Frequency Response(dB)
100	--	--
200	--	--
300	0.14	-17.98
400	0.26	-12.61
500	0.34	-10.28
600	0.55	-6.10
700	0.63	-4.92
800	0.74	-3.52
900	0.89	-1.92
1000	1.11	0.00
1200	1.35	1.70
1400	1.46	2.38
1600	1.58	3.07
1800	1.81	4.25
2000	1.94	4.85
2400	2.05	5.33
2500	1.96	4.94
2800	1.84	4.39
3000	1.79	4.15
3200	1.66	3.50
3600	1.58	3.07
4000	1.32	1.51
4500	1.11	0.00
5000	0.74	-3.52
5500	0.52	-6.59
6000	0.41	-8.65
6500	0.28	-11.96
7000	0.05	-26.93
7500	0.03	-31.36

10 KHz Channel Separations



Note: All the modes had been tested, but only the worst data recorded in the report. The report is issued by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

Appendix I: Photographs of Test Setup

Refer to the Report No.: AGC13459240402AP01

Appendix II: Photographs of Test EUT

Refer to the Report No.: AGC13459240402AP02

----END OF REPORT----

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