

Appendix E - Input-versus-output signal comparison

Test Data:

Occupied Bandwidth					
Frequency Band (MHz)	Channel Spacing (kHz)	Signal Level	Test Frequency F ₀ (MHz)	Signal Type	99% Occupied Channel Bandwidth (kHz)
406.1-420	6.25kHz (CQPSK)	Pre-AGC	416.0100	Input	4.861
				Output	4.858
		3dB Above AGC	416.0100	Input	4.838
				Output	4.840
	12.5kHz (FM)	Pre-AGC	416.0100	Input	8.259
				Output	8.200
		3dB Above AGC	416.0100	Input	8.272
				Output	8.253
421-430	6.25kHz (CQPSK)	Pre-AGC	426.9885	Input	4.860
				Output	4.848
		3dB Above AGC	426.9885	Input	4.849
				Output	4.841
	12.5kHz (FM)	Pre-AGC	426.9885	Input	8.253
				Output	8.253
		3dB Above AGC	426.9885	Input	8.380
				Output	8.402
450-470	6.25kHz (CQPSK)	Pre-AGC	460.0000	Input	4.827
				Output	4.837
		3dB Above AGC	460.0000	Input	4.850
				Output	4.846
	12.5kHz (FM)	Pre-AGC	460.0000	Input	8.321
				Output	8.148
		3dB Above AGC	460.0000	Input	8.182
				Output	8.249
470-512 (470.05)	6.25kHz (CQPSK)	Pre-AGC	472.9900	Input	4.831
				Output	4.854
		3dB Above AGC	472.9900	Input	4.870
				Output	4.836
	12.5kHz (FM)	Pre-AGC	472.9900	Input	8.273
				Output	8.189
		3dB Above AGC	472.9900	Input	8.391
				Output	8.293
470-512 (511.95)	6.25kHz (CQPSK)	Pre-AGC	506.0900	Input	4.860
				Output	4.811
		3dB Above AGC	506.0900	Input	4.848
				Output	4.847



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	12.5kHz (FM)	Pre-AGC	506.0900	Input	8.397
				Output	8.283
		3dB Above AGC	506.0900	Input	8.328
				Output	8.276



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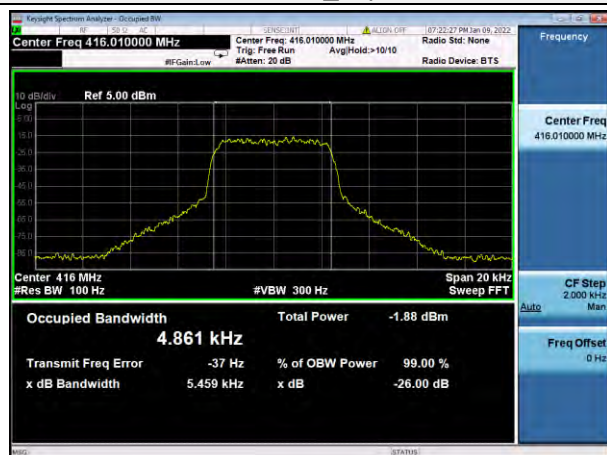
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406.1-420MHz

6.25kHz CQPSK

Pre-AGC_Input



Pre-AGC_Output



3dB Above Pre-AGC_Input



3dB Above AGC_Output



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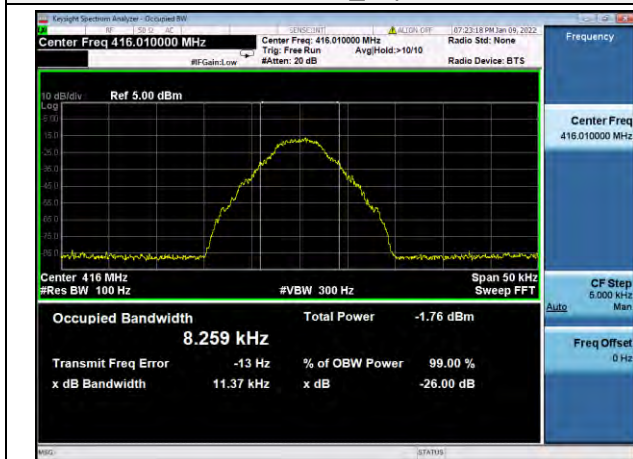
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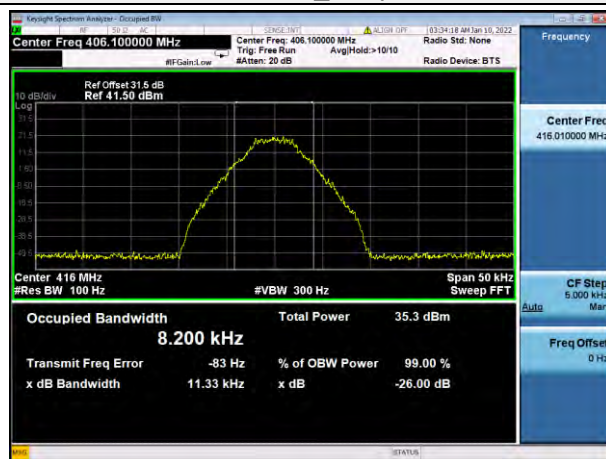
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12.5kHz FM

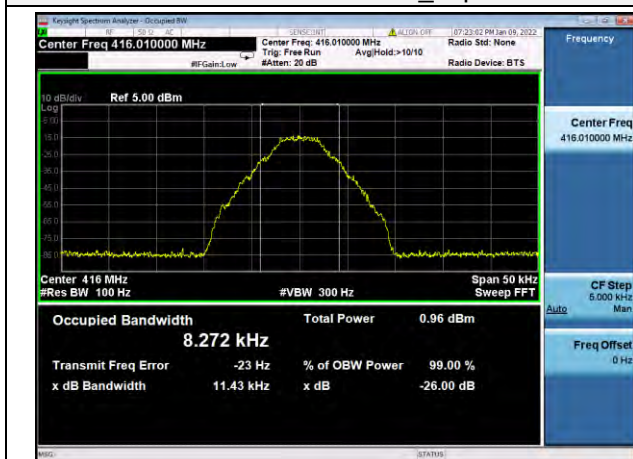
Pre-AGC_ Input



Pre-AGC_ Output



3dB Above Pre-AGC_ Input



3dB Above AGC_ Output



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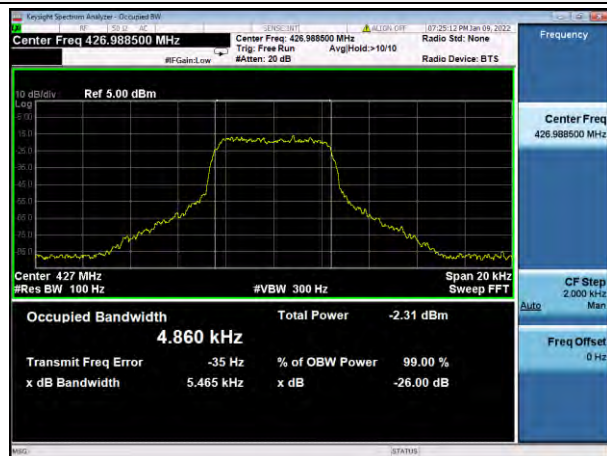
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421-430MHz

6.25kHz CQPSK

Pre-AGC_Input



Pre-AGC_Output



3dB Above Pre-AGC_Input



3dB Above AGC_Output



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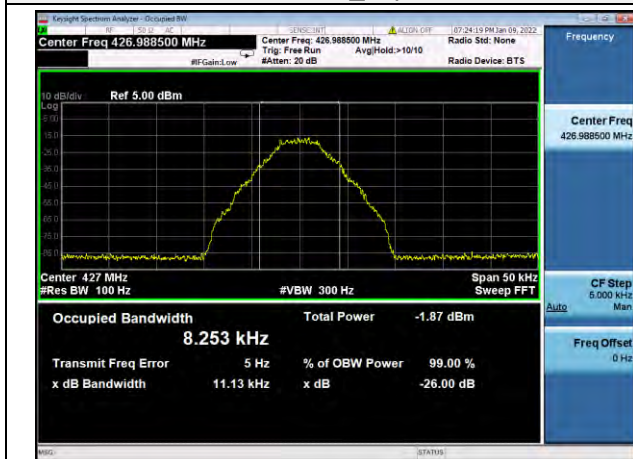
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12.5kHz FM

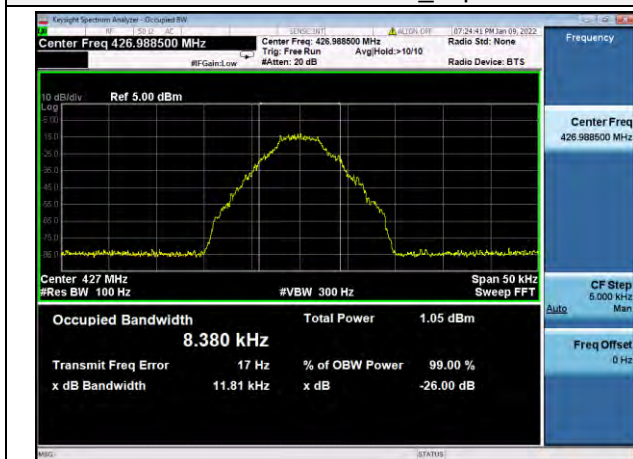
Pre-AGC_ Input



Pre-AGC_ Output



3dB Above Pre-AGC_ Input



3dB Above AGC_ Output



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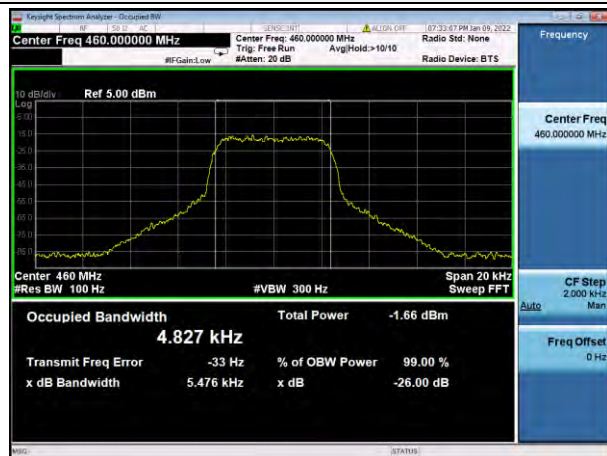
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450-470MHz

6.25kHz CQPSK

Pre-AGC_Input



Pre-AGC_Output



3dB Above Pre-AGC_Input



3dB Above AGC_Output



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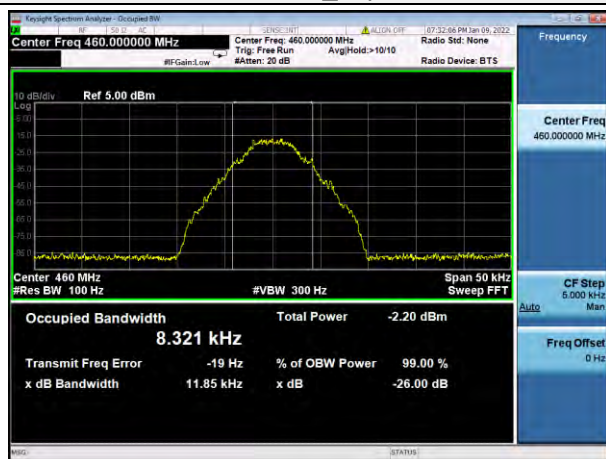
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12.5kHz FM

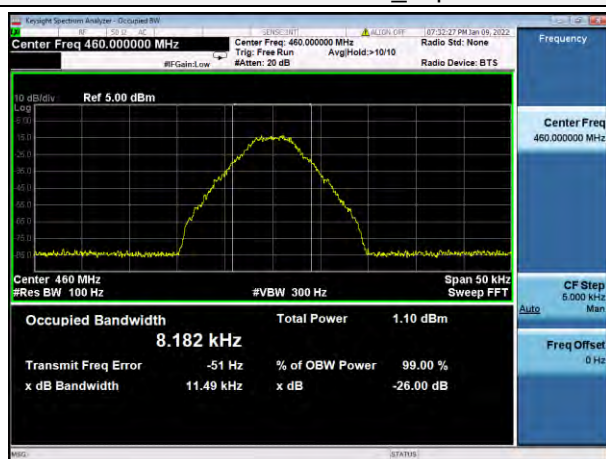
Pre-AGC_ Input



Pre-AGC_ Output



3dB Above Pre-AGC_ Input



3dB Above AGC_ Output



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470-512MHz_(470.05MHz)

6.25kHz CQPSK

Pre-AGC_Input



Pre-AGC_Output



3dB Above Pre-AGC_Input



3dB Above AGC_Output



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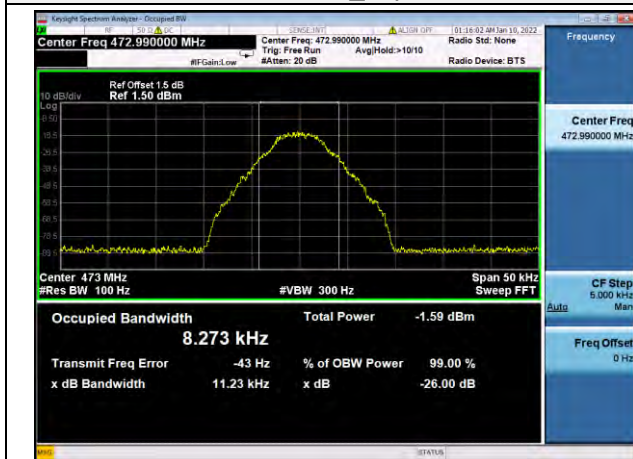
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12.5kHz FM

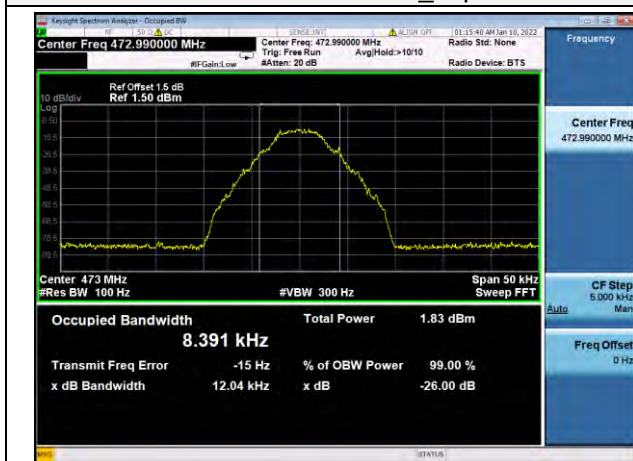
Pre-AGC_ Input



Pre-AGC_ Output



3dB Above Pre-AGC_ Input



3dB Above AGC_ Output



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470-512MHz_(511.95MHz)

6.25kHz CQPSK

Pre-AGC_Input



Pre-AGC_Output



3dB Above Pre-AGC_Input



3dB Above AGC_Output



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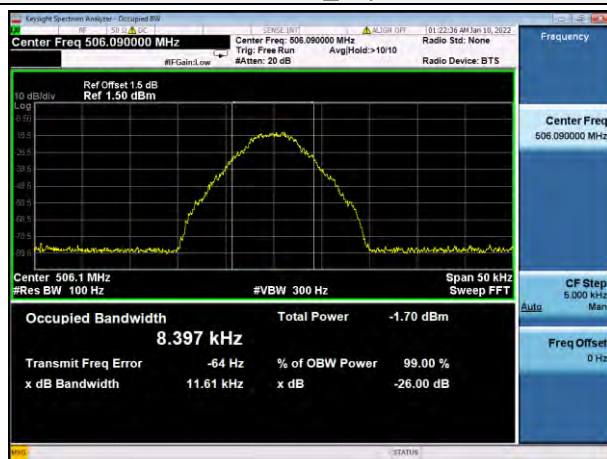
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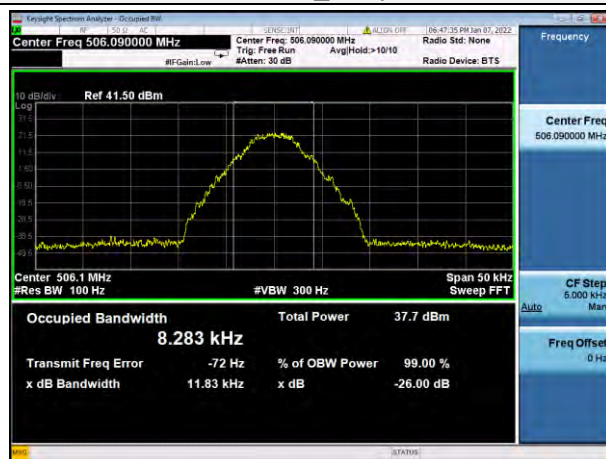
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12.5kHz FM

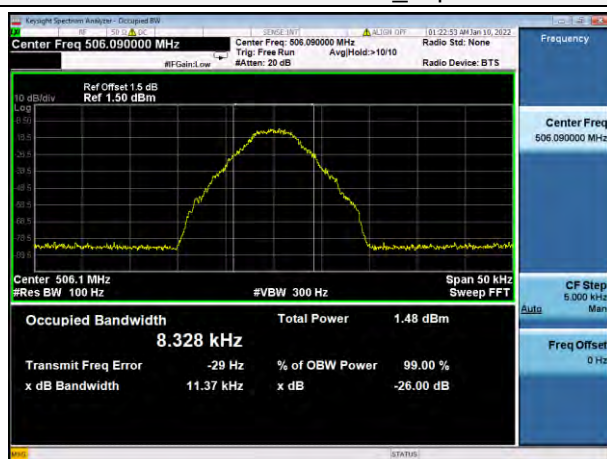
Pre-AGC_ Input



Pre-AGC_ Output



3dB Above Pre-AGC_ Input



3dB Above AGC_ Output



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Emission MASK					
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406.1-420 (Mask C)	6.25kHz (CQPSK)	Pre-AGC	413.05 / 425.50 / 460.00 / 470.05 / 511.95	Input	Pass
421-430 (Mask E)		3dB Above AGC		Output	Pass
450-470 (Mask E)				Input	Pass
470-512 (Mask E)				Output	Pass
406.1-420 (Mask C)	12.5kHz (FM)	Pre-AGC		Input	Pass
421-430 (Mask D)		3dB Above AGC		Output	Pass
450-470 (Mask D)				Input	Pass
470-512 (Mask D)				Output	Pass

Remark: The Total Power Ref is the same value as the unmodulated carrier output power (P).



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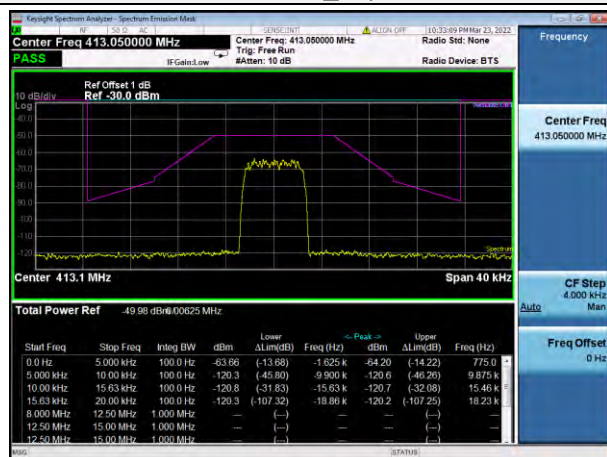
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406.1-420MHz

6.25kHz CQPSK _ Mask C

Pre-AGC_ Input



Pre-AGC_ Output



3dB Above Pre-AGC_ Input



3dB Above AGC_ Output



12.5kHz FM _ Mask C

Pre-AGC_ Input



Pre-AGC_ Output



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3dB Above Pre-AGC_ Input



3dB Above AGC_ Output



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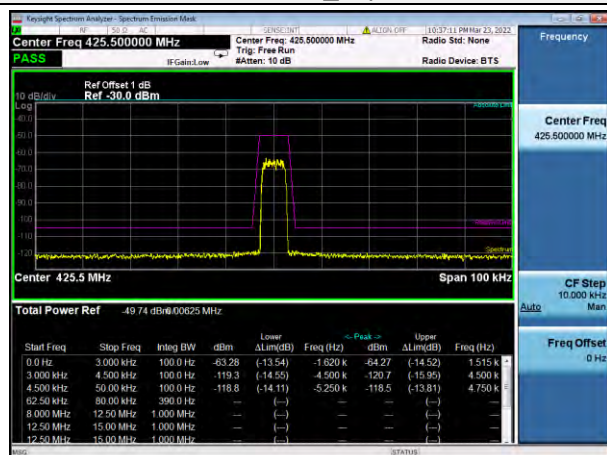
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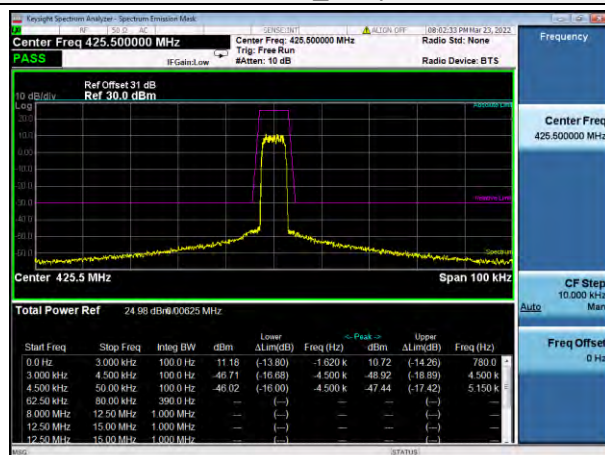
421-430MHz

6.25kHz CQPSK _ Mask E

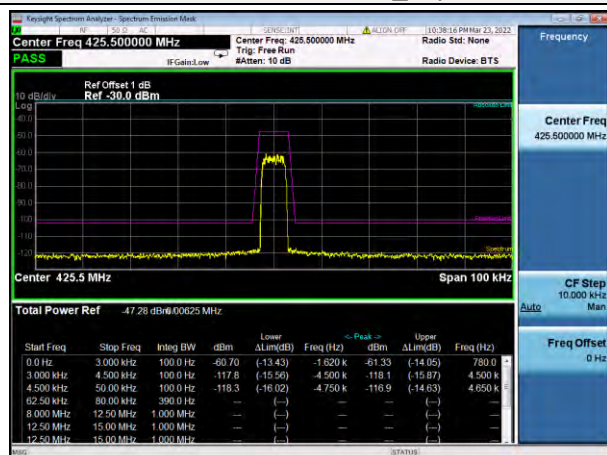
Pre-AGC_ Input



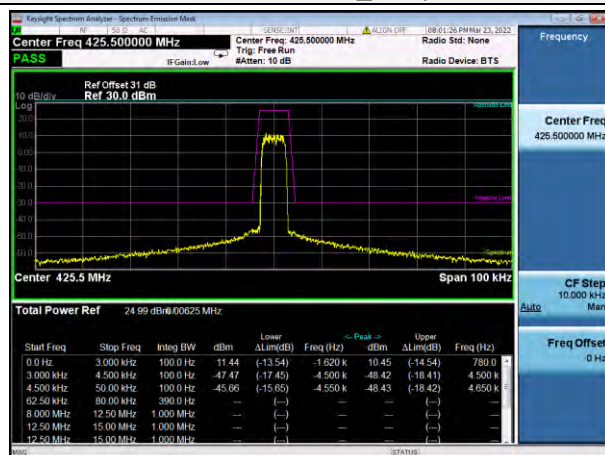
Pre-AGC_ Output



3dB Above Pre-AGC_ Input



3dB Above AGC_ Output

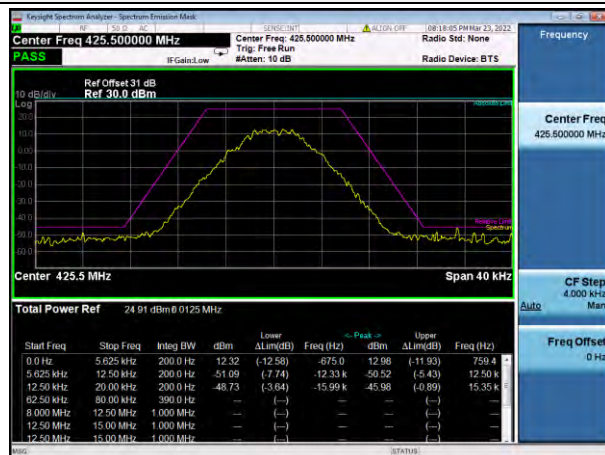


12.5kHz FM _ Mask D

Pre-AGC_ Input



Pre-AGC_ Output



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3dB Above Pre-AGC_ Input



3dB Above AGC_ Output



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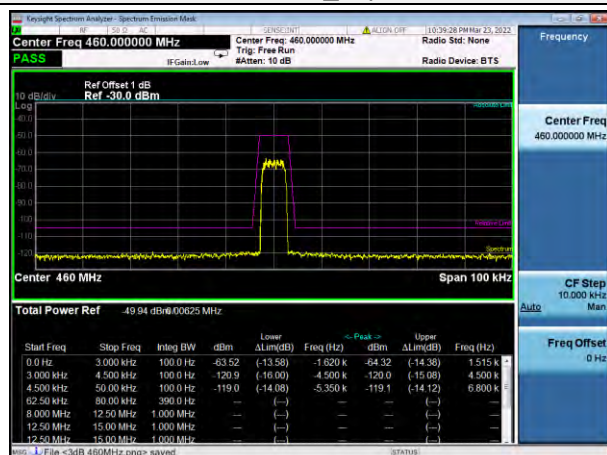
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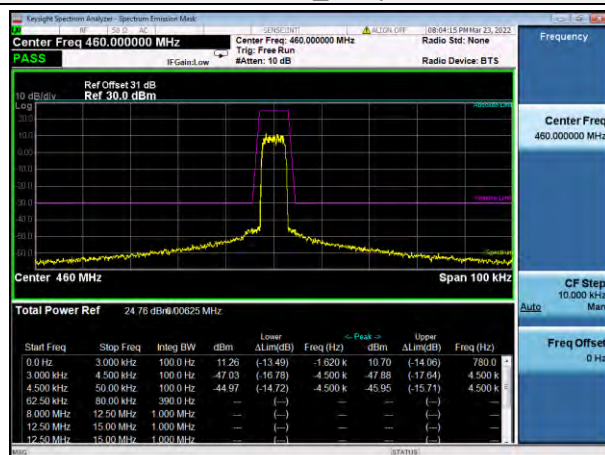
450-470MHz

6.25kHz CQPSK _ Mask E

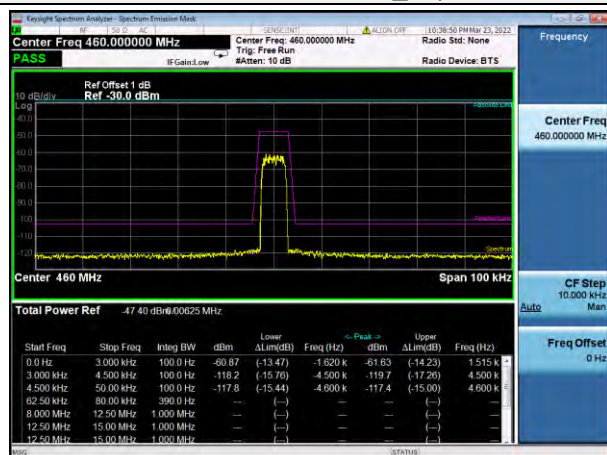
Pre-AGC_ Input



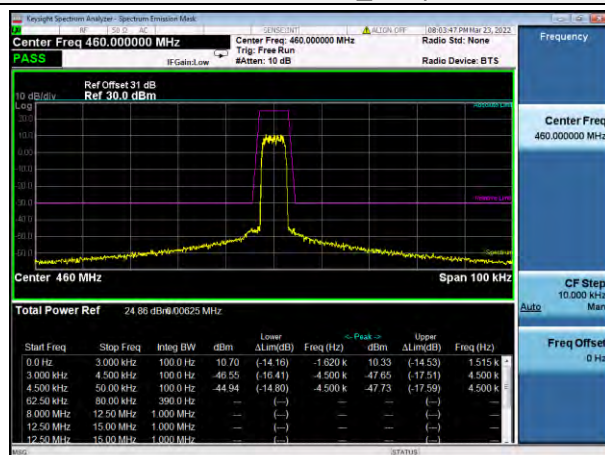
Pre-AGC_ Output



3dB Above Pre-AGC_ Input



3dB Above AGC_ Output

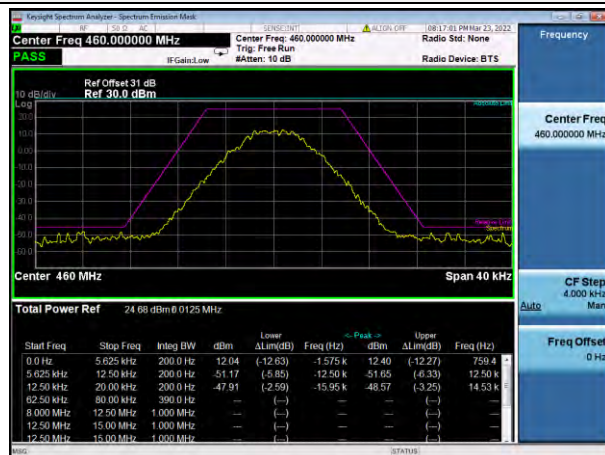


12.5kHz FM _ Mask D

Pre-AGC_ Input



Pre-AGC_ Output



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3dB Above Pre-AGC_ Input



3dB Above AGC_ Output



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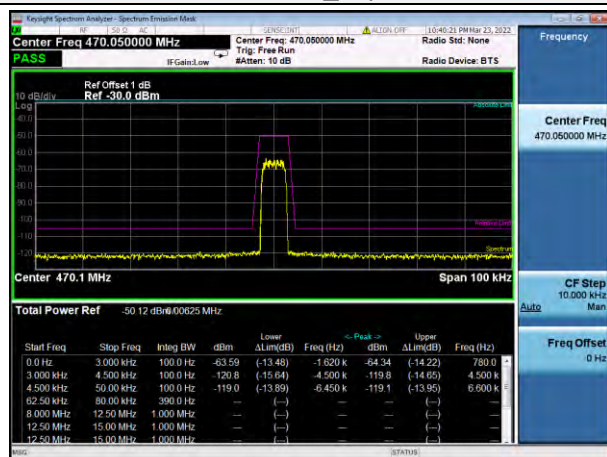
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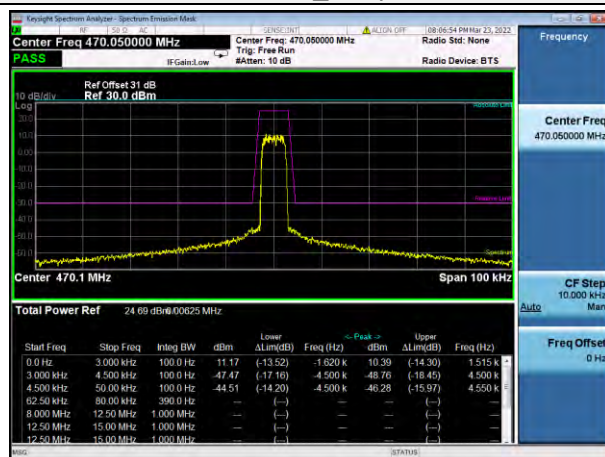
470-512MHz_(470.05MHz)

6.25kHz CQPSK _ Mask E

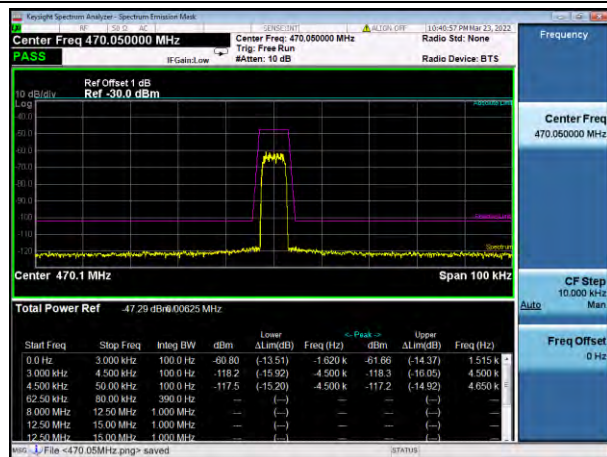
Pre-AGC_ Input



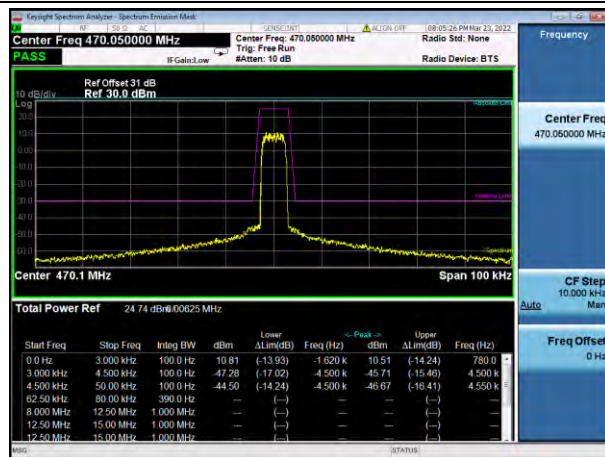
Pre-AGC_ Output



3dB Above Pre-AGC_ Input



3dB Above AGC_ Output



12.5kHz FM _ Mask D

Pre-AGC_ Input



Pre-AGC_ Output



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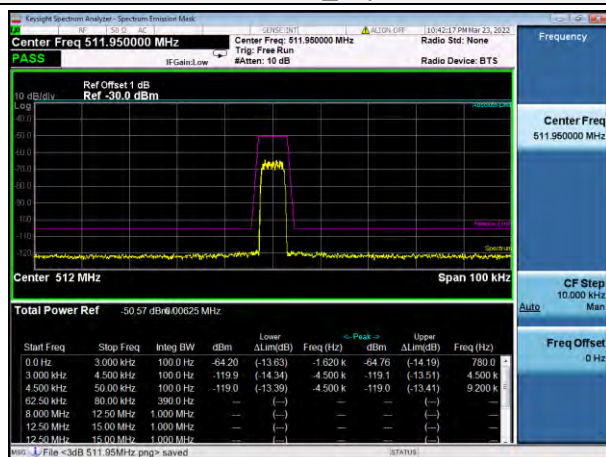
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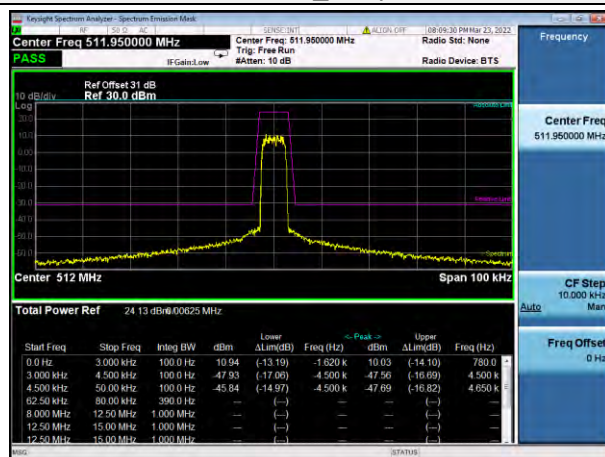
470-512MHz_(511.95MHz)

6.25kHz CQPSK _ Mask E

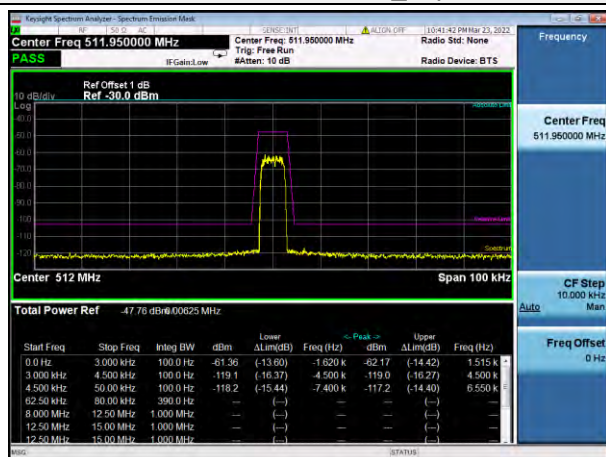
Pre-AGC_ Input



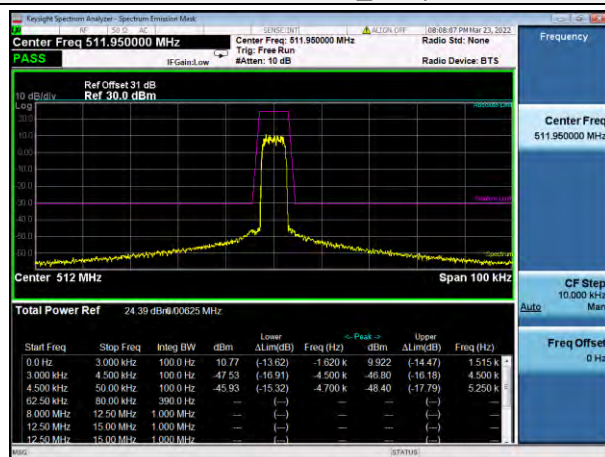
Pre-AGC_ Output



3dB Above Pre-AGC_ Input



3dB Above AGC_ Output



12.5kHz FM _ Mask D

Pre-AGC_ Input



Pre-AGC_ Output



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3dB Above Pre-AGC_ Input



3dB Above AGC_ Output



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