

Appendix E - Input-versus-output signal comparison

Test Data:

Uplink: 806MHz to 824MHz

Occupied Bandwidth				
Channel Spacing (kHz)	Test Channel	Signal Level	Signal Type	99% Occupied Channel Bandwidth (kHz)
6.25kHz (CQPSK)	Middle Channel	Pre-AGC	Input	4.886
			Output	4.888
	Middle Channel	3dB Above AGC	Input	4.884
			Output	4.883
12.5kHz (FM)	Middle Channel	Pre-AGC	Input	9.806
			Output	9.778
	Middle Channel	3dB Above AGC	Input	9.798
			Output	9.772
25kHz (TETRA)	Middle Channel	Pre-AGC	Input	21.011
			Output	20.987
	Middle Channel	3dB Above AGC	Input	20.971
			Output	20.990



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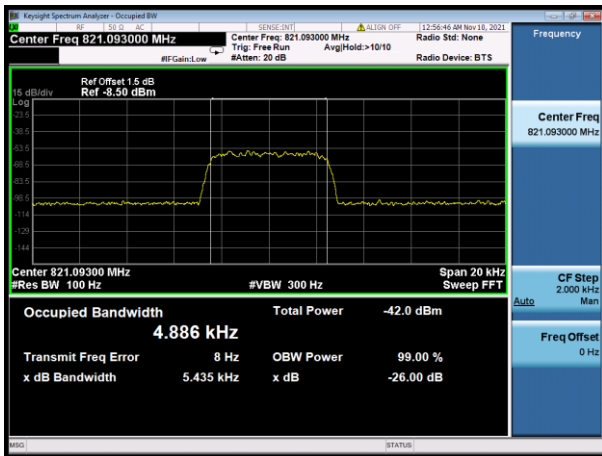
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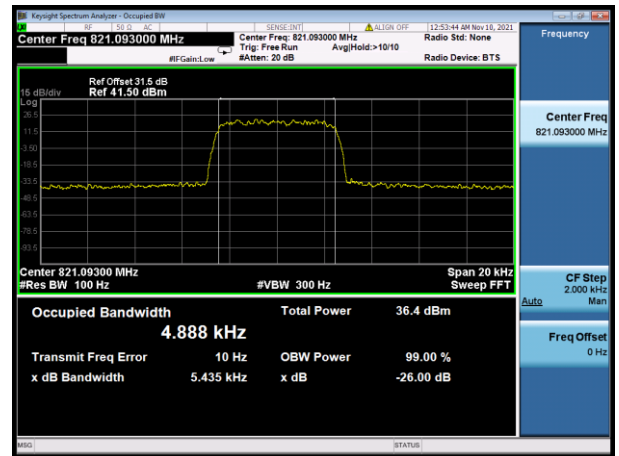
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6.25kHz CQPSK

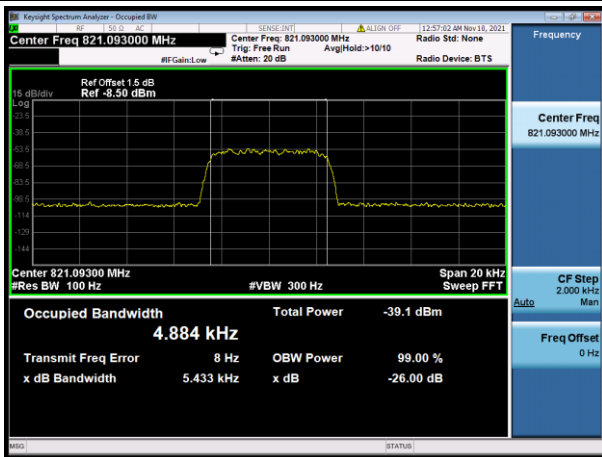
Pre-AGC_ Input



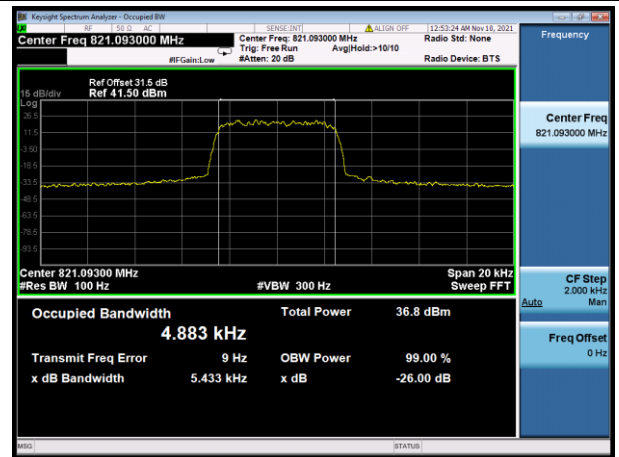
Pre-AGC_ Output



3dB Above Pre-AGC_ Input



3dB Above AGC_ Output



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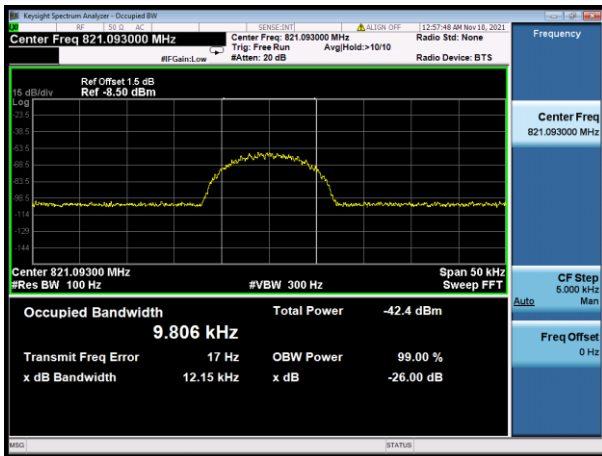
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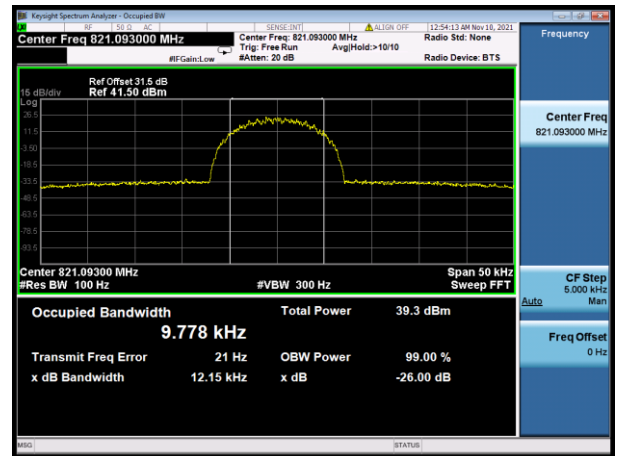
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12.5kHz FM

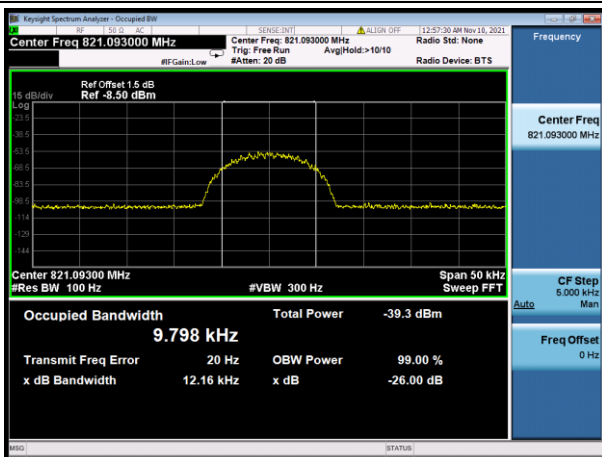
Pre-AGC_ Input



Pre-AGC_ Output



3dB Above Pre-AGC_ Input



3dB Above AGC_ Output

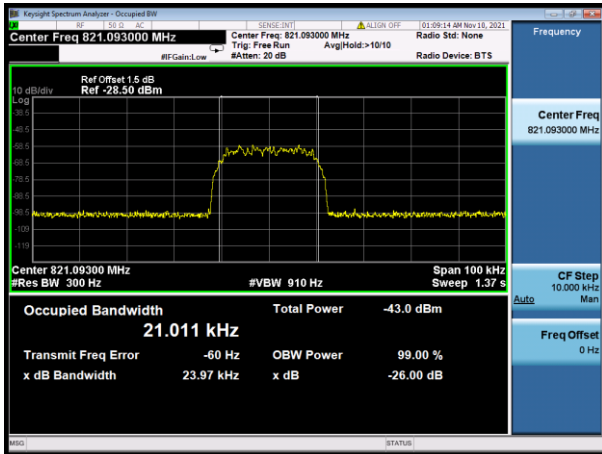


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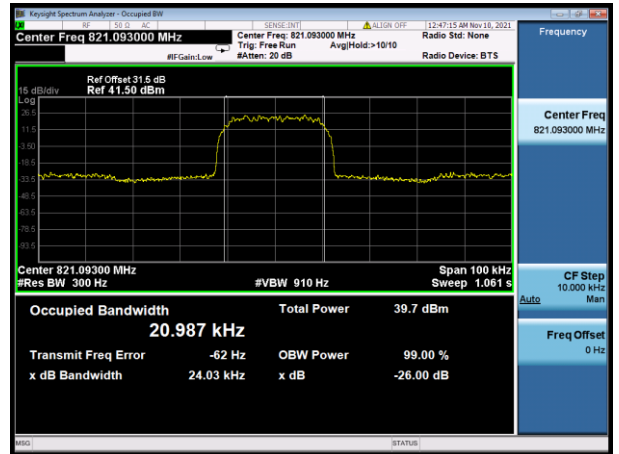
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25kHz TETRA

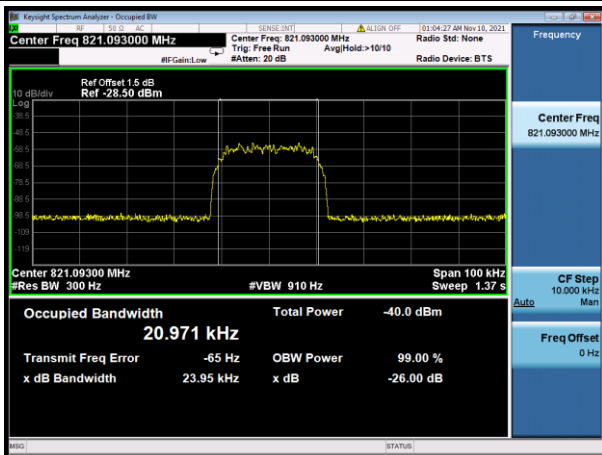
Pre-AGC_ Input



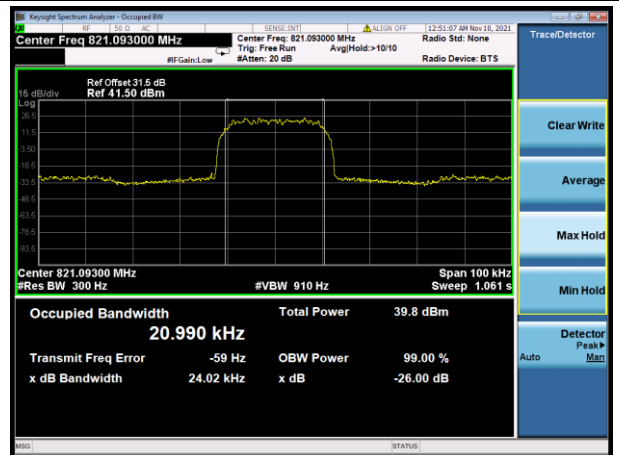
Pre-AGC_ Output



3dB Above Pre-AGC_ Input



3dB Above AGC_ Output



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Emission masks				
Channel Spacing (kHz)	Test Frequency F ₀ (MHz)	Signal Level	Signal Type	Result
6.25kHz (CQPSK) 806~809MHz (MASK H)	807.500*	Pre-AGC	Input	Pass
			Output	Pass
		3dB Above AGC	Input	Pass
			Output	Pass
12.5kHz (FM) 806~809MHz (MASK H) 809~824MHz (MASK D)	821.093	Pre-AGC	Input	Pass
			Output	Pass
		3dB Above AGC	Input	Pass
			Output	Pass
25kHz (TETRA) 809~824MHz (MASK G)	821.093	Pre-AGC	Input	Pass
			Output	Pass
		3dB Above AGC	Input	Pass
			Output	Pass

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

Remark*: For those frequencies fall within the range of 806-809mhz, we only select the middle channel for testing.



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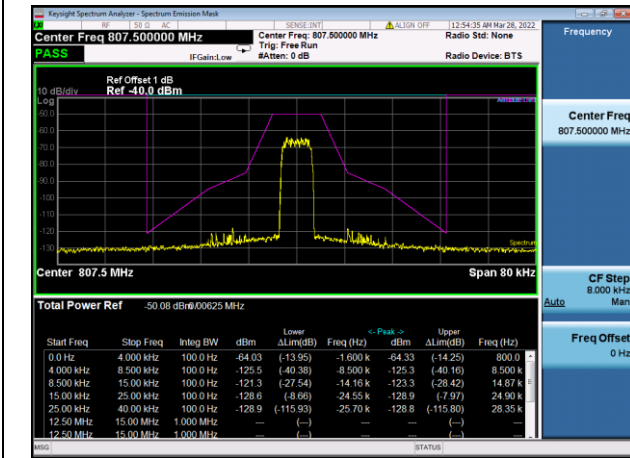
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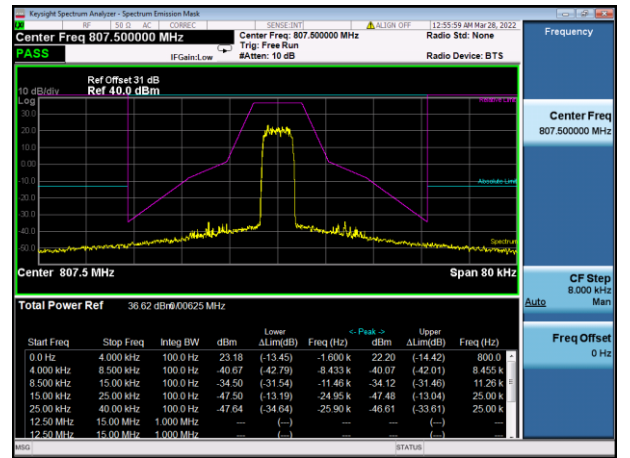
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6.25kHz CQPSK _ Mask H

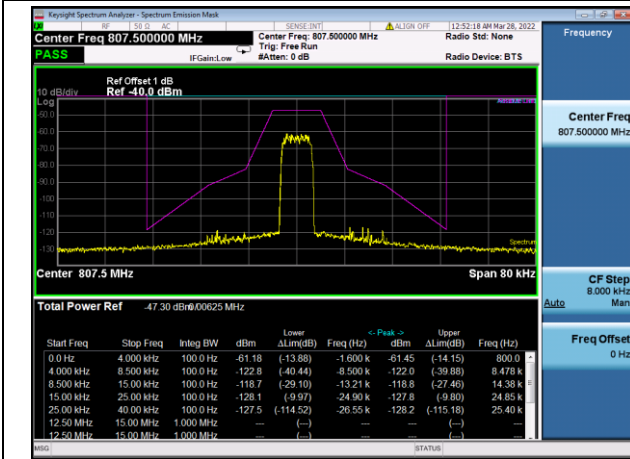
Pre-AGC_ Input



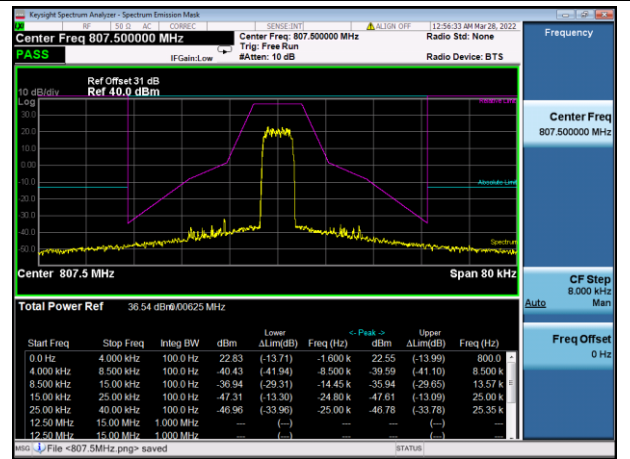
Pre-AGC_ Output



3dB Above Pre-AGC_ Input



3dB Above AGC_ Output



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12.5kHz FM _ Mask D

Pre-AGC_ Input



Pre-AGC_ Output



3dB Above Pre-AGC_ Input



3dB Above AGC_ Output

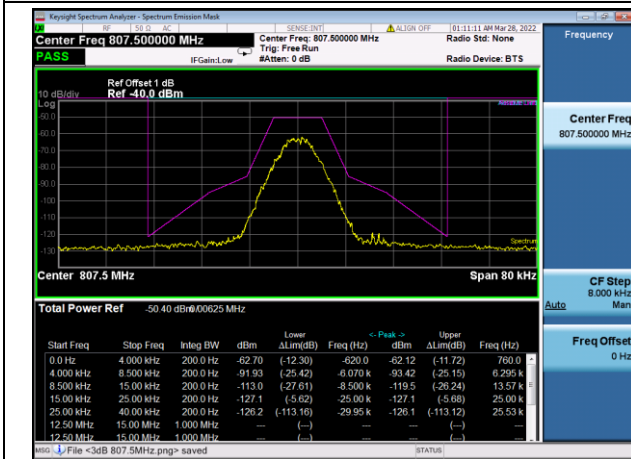


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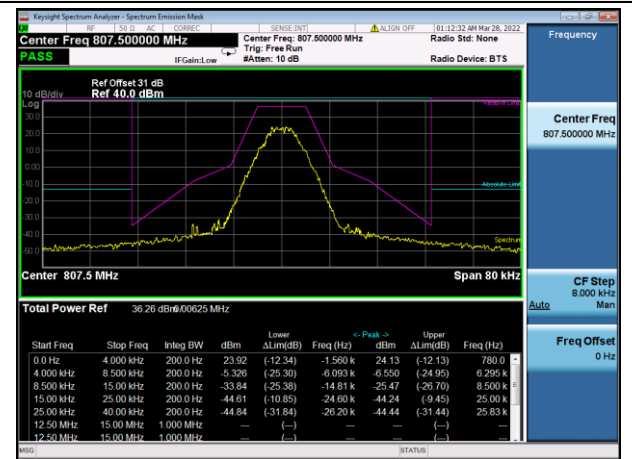
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12.5kHz FM _ Mask H

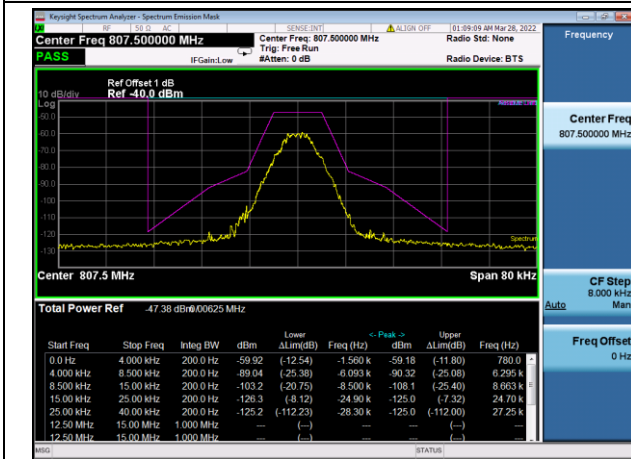
Pre-AGC_ Input



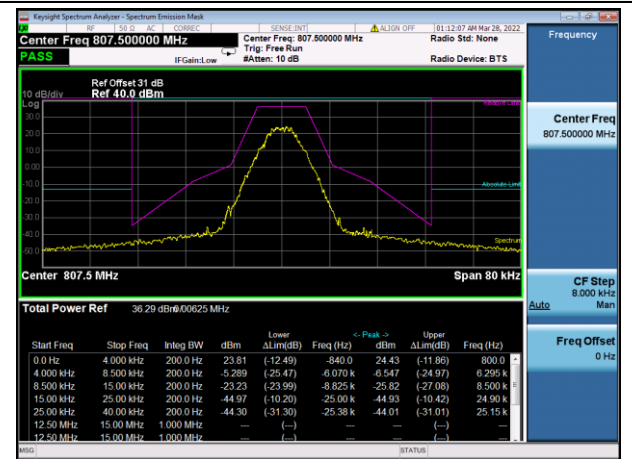
Pre-AGC_ Output



3dB Above Pre-AGC_ Input



3dB Above AGC_ Output

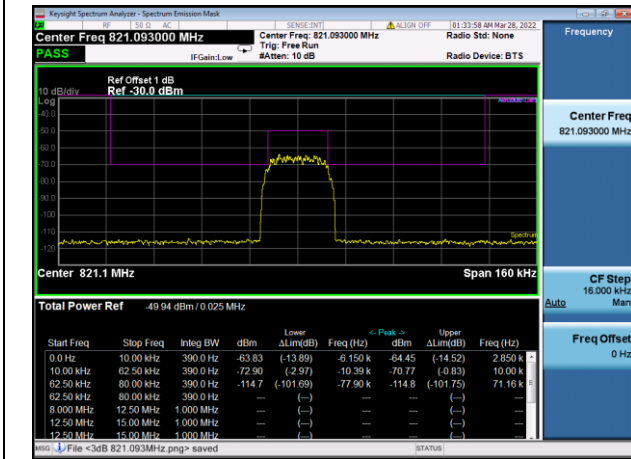


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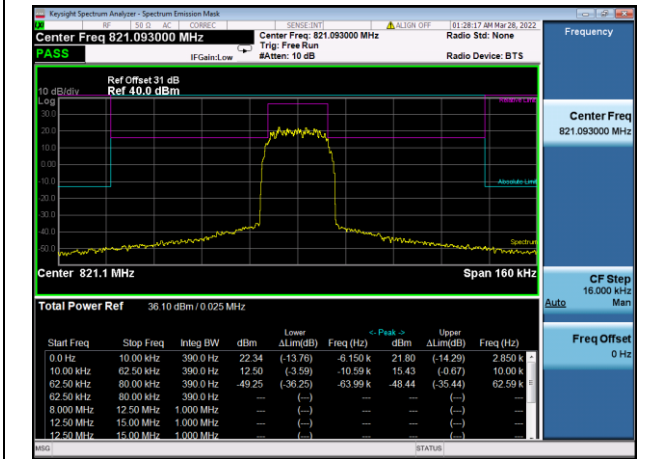
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25kHz TETRA _ Mask G

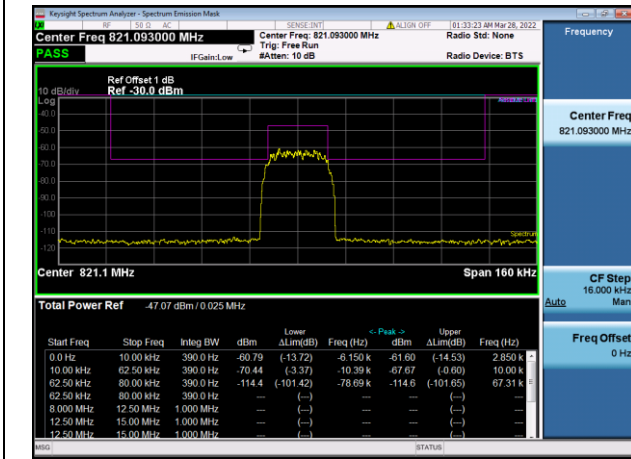
Pre-AGC_ Input



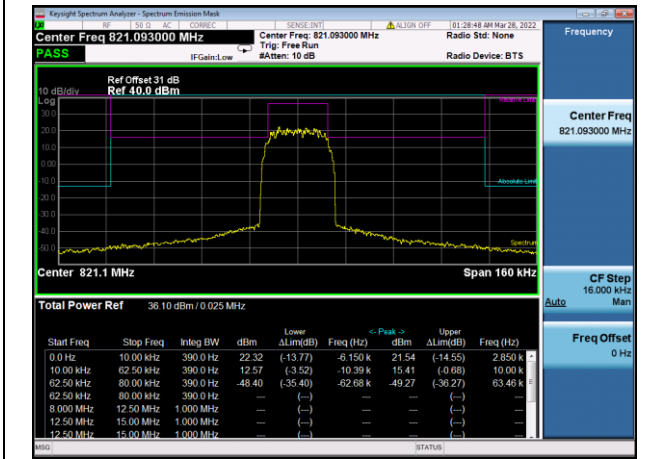
Pre-AGC_ Output



3dB Above Pre-AGC_ Input



3dB Above AGC_ Output

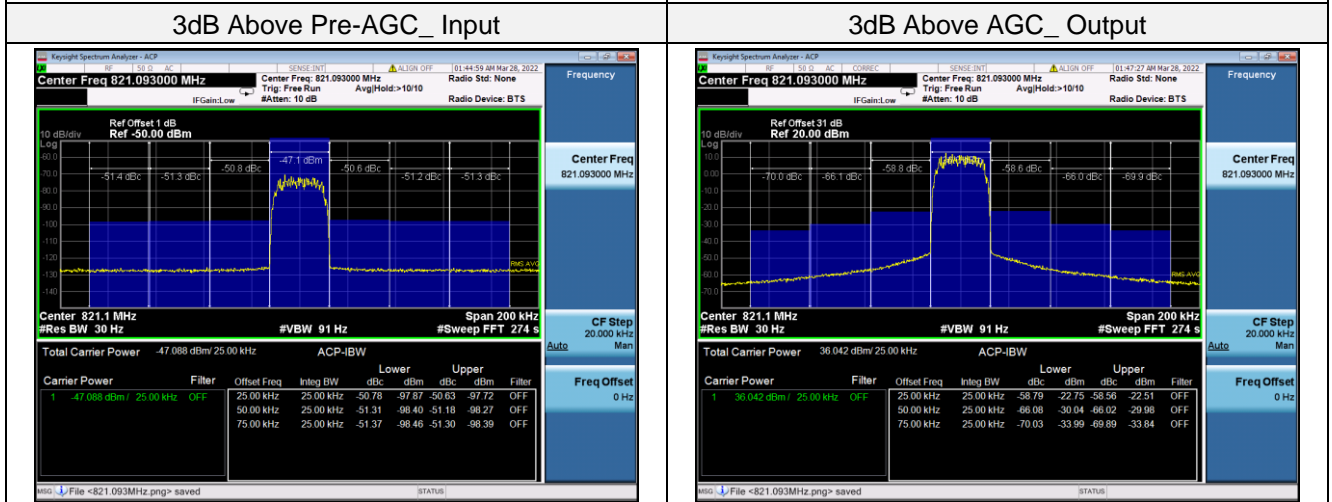
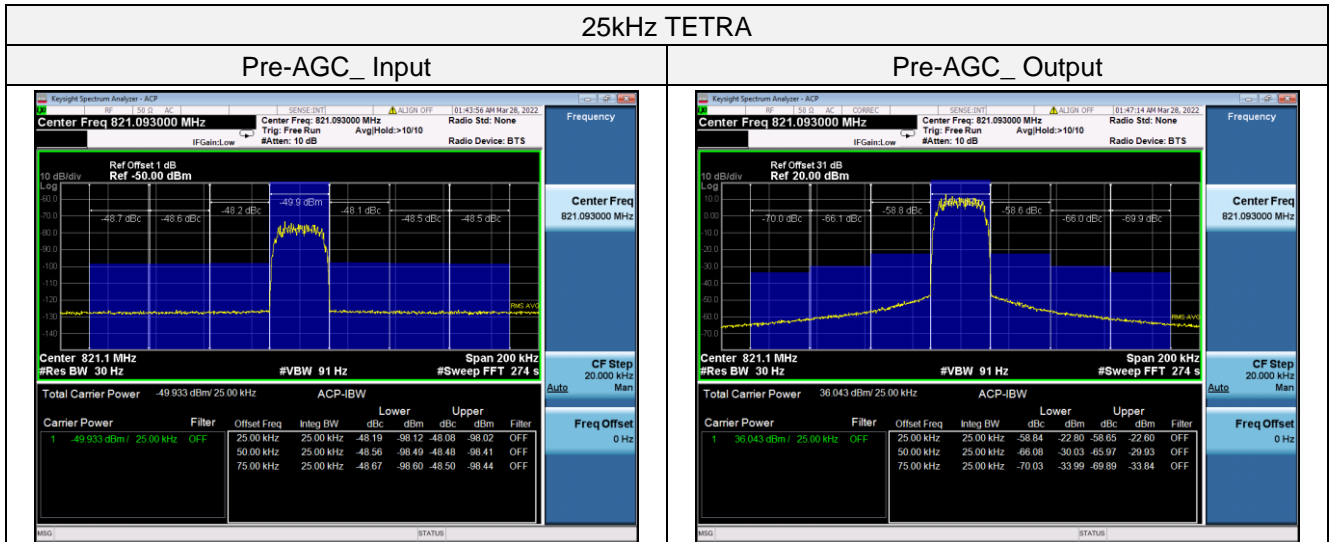


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Adjacent Channel Power				
Channel Spacing (kHz)	Test Frequency F ₀ (MHz)	Signal Level	Signal Type	Result
25kHz (TETRA) 809~824MHz	821.093	Pre-AGC	Input	Pass
			Output	Pass
		3dB Above AGC	Input	Pass
			Output	Pass



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