

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	415.0160	Input	4.851
				Output	4.856
		3dB Above AGC	415.0160	Input	4.829
				Output	4.848
	12.5kHz (FM)	Pre-AGC	415.0160	Input	8.285
				Output	8.285
		3dB Above AGC	415.0160	Input	8.264
				Output	8.296
421-430	6.25kHz (CQPSK)	Pre-AGC	427.0155	Input	4.838
				Output	4.848
		3dB Above AGC	427.0155	Input	4.850
				Output	4.817
	12.5kHz (FM)	Pre-AGC	427.0155	Input	8.360
				Output	8.233
		3dB Above AGC	427.0155	Input	8.314
				Output	8.282
450-470	6.25kHz (CQPSK)	Pre-AGC	455.1500	Input	4.848
				Output	4.847
		3dB Above AGC	455.1500	Input	4.850
				Output	4.863
	12.5kHz (FM)	Pre-AGC	455.1500	Input	8.299
				Output	8.314
		3dB Above AGC	455.1500	Input	8.244
				Output	8.316
470-512 (473.866)	6.25kHz (CQPSK)	Pre-AGC	473.8660	Input	4.853
				Output	4.859
		3dB Above AGC	473.8660	Input	4.843
				Output	4.841
	12.5kHz (FM)	Pre-AGC	473.8660	Input	8.275
				Output	8.270
		3dB Above AGC	473.8660	Input	8.271
				Output	8.301



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Occupied Bandwidth					
Frequency Band (MHz)	Channel Spacing (kHz)	Signal Level	Test Frequency F ₀ (MHz)	Signal Type	99% Occupied Channel Bandwidth (kHz)
470-512 (502.000)	6.25kHz (CQPSK)	Pre-AGC	502.0000	Input	4.863
				Output	4.850
		3dB Above AGC	502.0000	Input	4.865
				Output	4.843
	12.5kHz (FM)	Pre-AGC	502.0000	Input	8.316
				Output	8.328
		3dB Above AGC	502.0000	Input	8.183
				Output	8.309



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406.1-420MHz

6.25kHz CQPSK

Pre-AGC_ Input



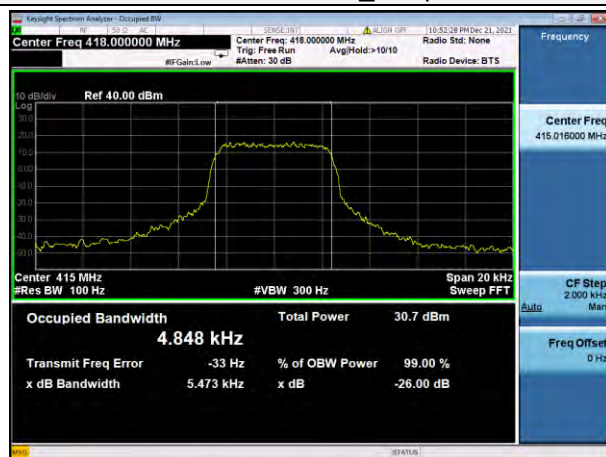
Pre-AGC_ Output



3dB Above Pre-AGC_ Input



3dB Above AGC_ Output



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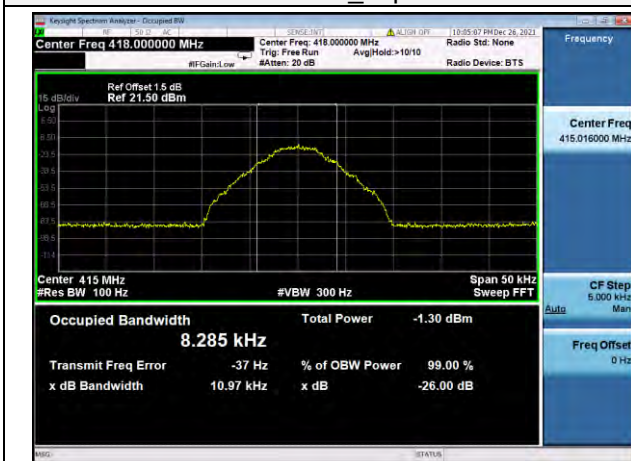
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12.5kHz FM

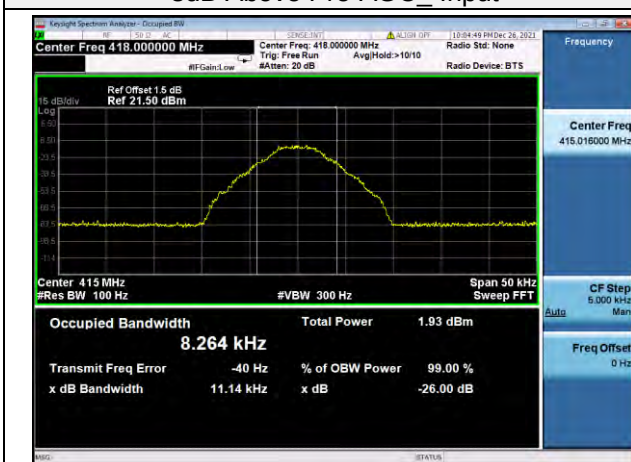
Pre-AGC_ Input



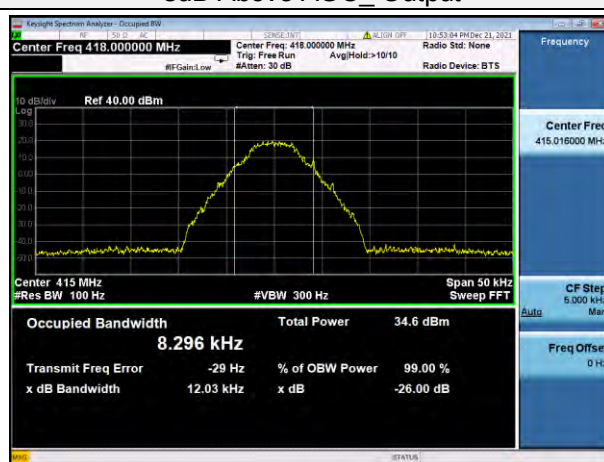
Pre-AGC_ Output



3dB Above Pre-AGC_ Input



3dB Above AGC_ Output



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421-430MHz

6.25kHz CQPSK

Pre-AGC_Input



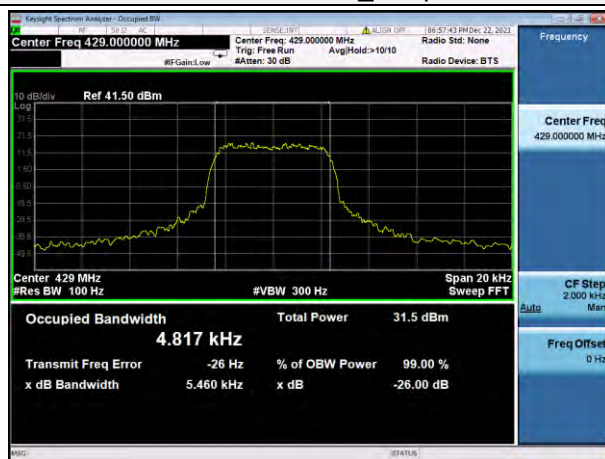
Pre-AGC_Output



3dB Above Pre-AGC_Input



3dB Above AGC_Output



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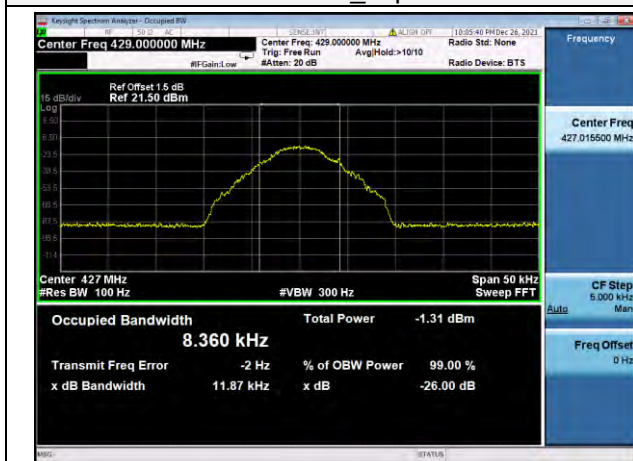
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12.5kHz FM

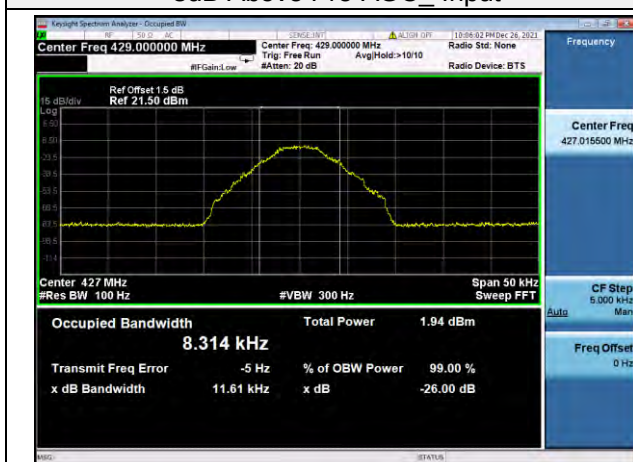
Pre-AGC_Input



Pre-AGC_Output



3dB Above Pre-AGC_Input



3dB Above AGC_Output



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450-470MHz

6.25kHz CQPSK

Pre-AGC_Input



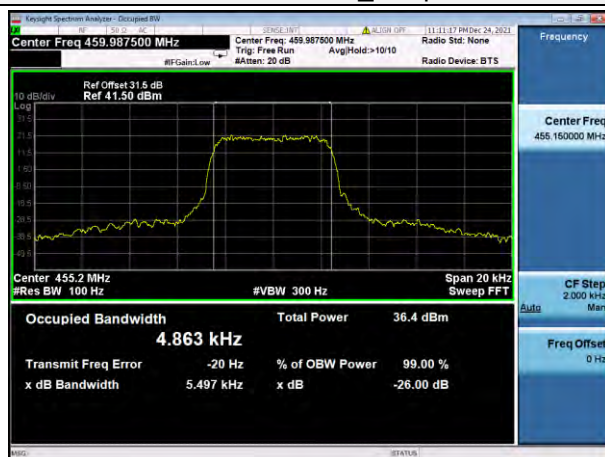
Pre-AGC_Output



3dB Above Pre-AGC_Input



3dB Above AGC_Output



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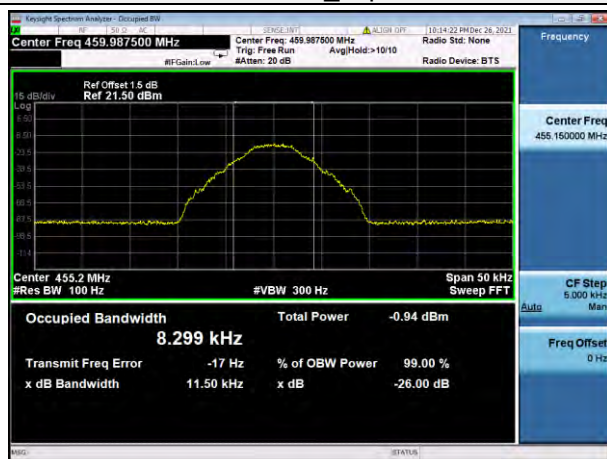
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12.5kHz FM

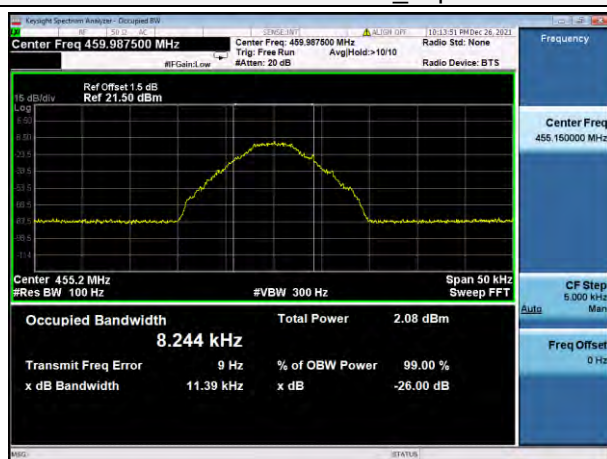
Pre-AGC_Input



Pre-AGC_Output



3dB Above Pre-AGC_Input



3dB Above AGC_Output



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470-512MHz_(473.866MHz)

6.25kHz CQPSK

Pre-AGC_Input



Pre-AGC_Output



3dB Above Pre-AGC_Input



3dB Above AGC_Output



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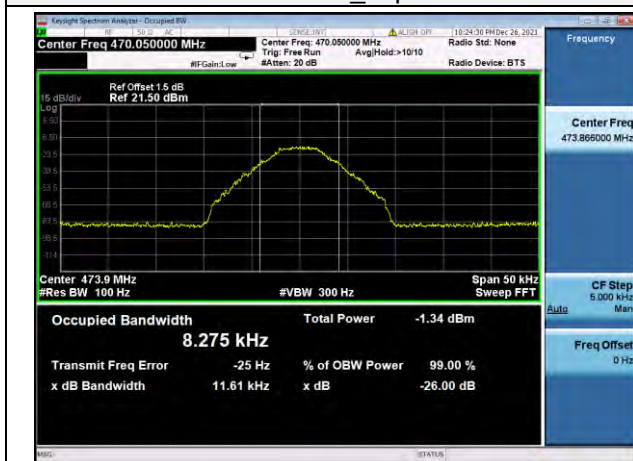
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12.5kHz FM

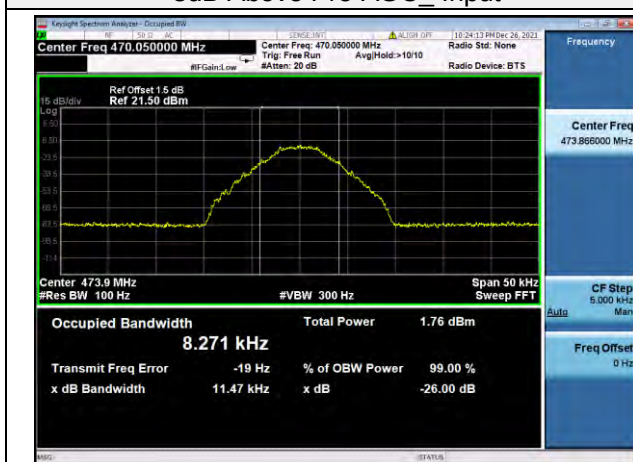
Pre-AGC_Input



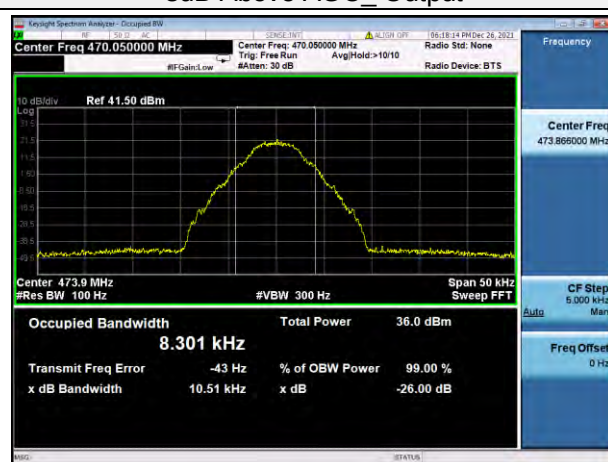
Pre-AGC_Output



3dB Above Pre-AGC_Input



3dB Above AGC_Output



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470-512MHz_(502.000MHz)

6.25kHz CQPSK

Pre-AGC_Input



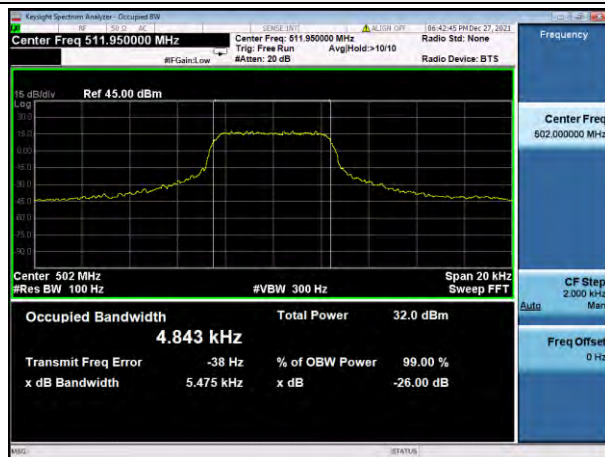
Pre-AGC_Output



3dB Above Pre-AGC_Input



3dB Above AGC_Output



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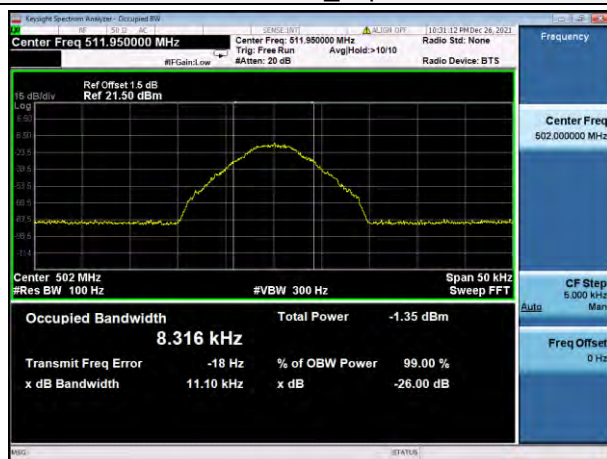
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12.5kHz FM

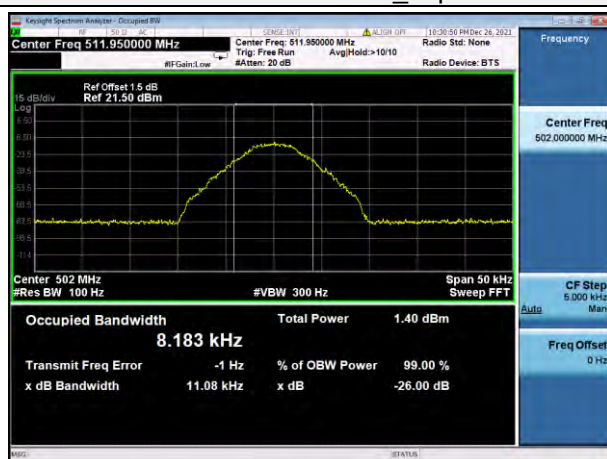
Pre-AGC_Input



Pre-AGC_Output



3dB Above Pre-AGC_Input



3dB Above AGC_Output



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Emission MASK					
Frequency Band (MHz)	Channel Spacing (kHz)	Signal Level	Test Frequency F ₀ (MHz)	Signal Type	Result
406.1-420 (Mask C)	6.25kHz (CQPSK)	Pre-AGC	415.0160/ 427.0155 / 455.1500 / 473.8660 / 502.0000	Input	Pass
421-430 (Mask E)		3dB Above AGC		Output	Pass
450-470 (Mask E)				Input	Pass
470-512 (Mask E)		Pre-AGC		Output	Pass
406.1-420 (Mask C)	12.5kHz (FM)			Pre-AGC	Input
421-430 (Mask D)		Output			Pass
450-470 (Mask D)		3dB Above AGC		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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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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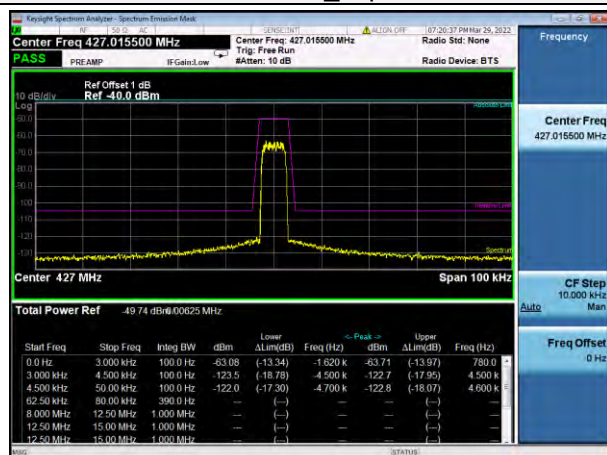
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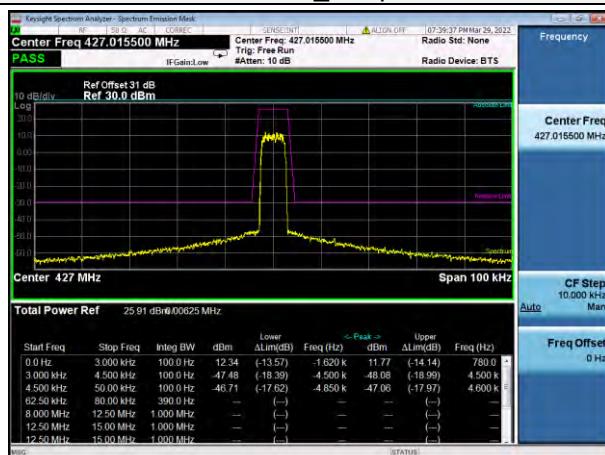
421-430MHz

6.25kHz CQPSK _ Mask E

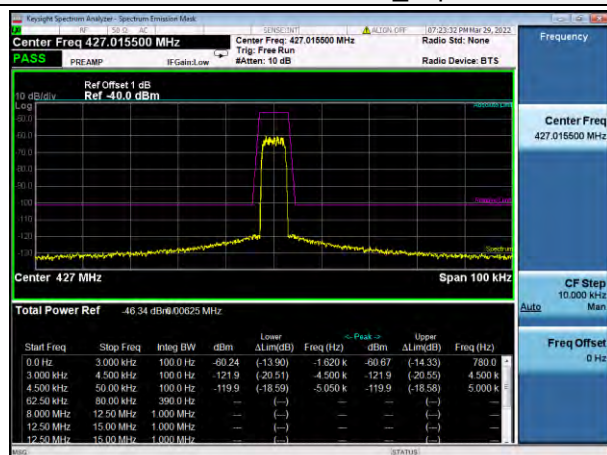
Pre-AGC_ Input



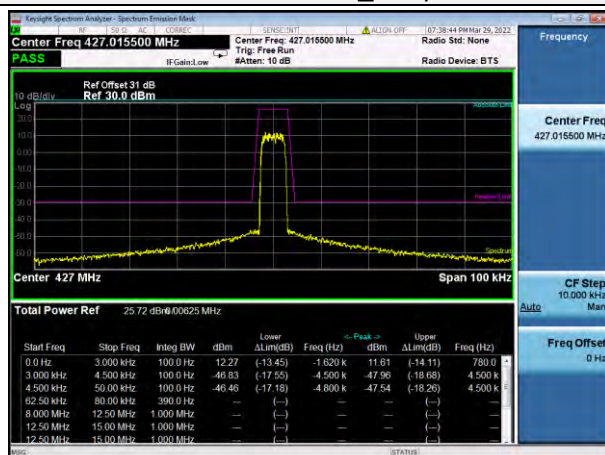
Pre-AGC_ Output



3dB Above Pre-AGC_ Input



3dB Above AGC_ Output



12.5kHz FM _ Mask D

Pre-AGC_ Input



Pre-AGC_ Output



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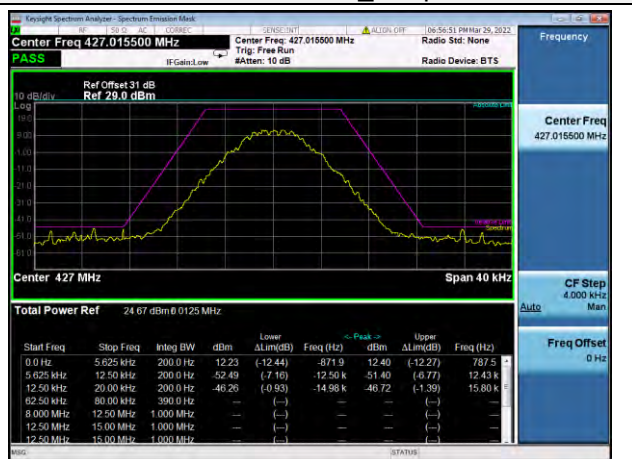
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3dB Above Pre-AGC_ Input



3dB Above AGC_ Output



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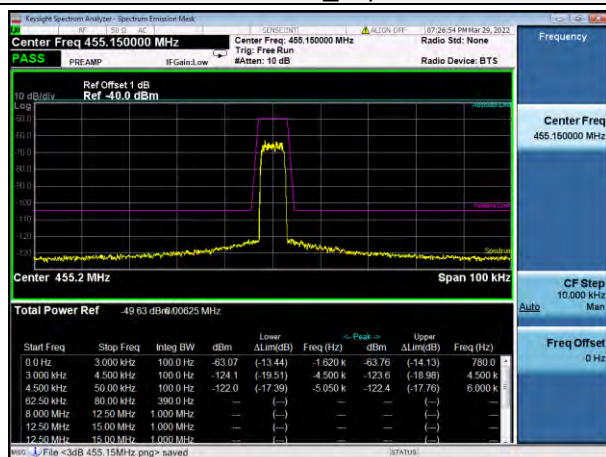
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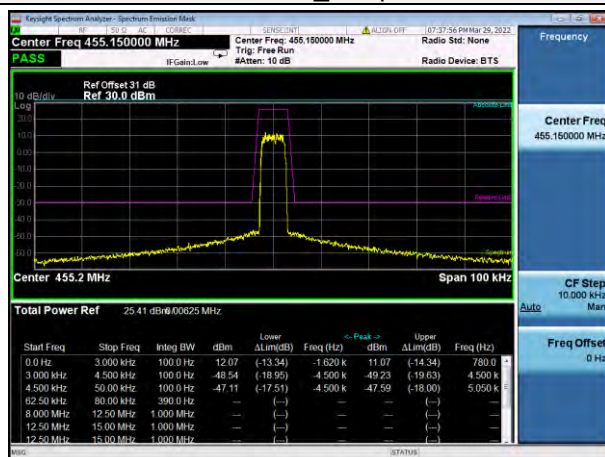
450-470MHz

6.25kHz CQPSK _ Mask E

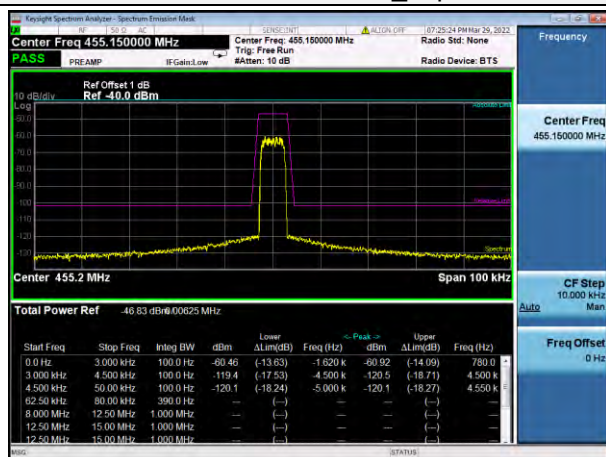
Pre-AGC_ Input



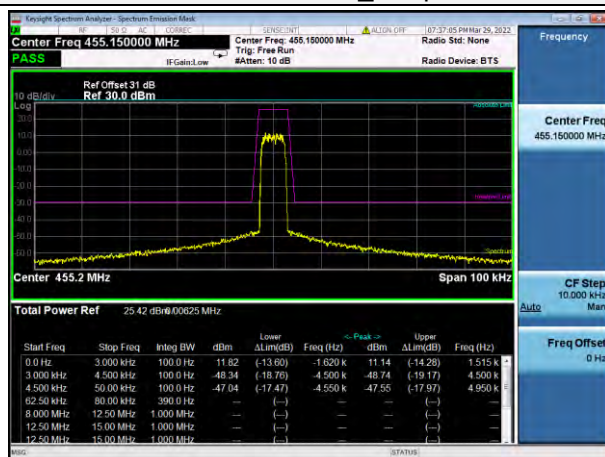
Pre-AGC_ Output



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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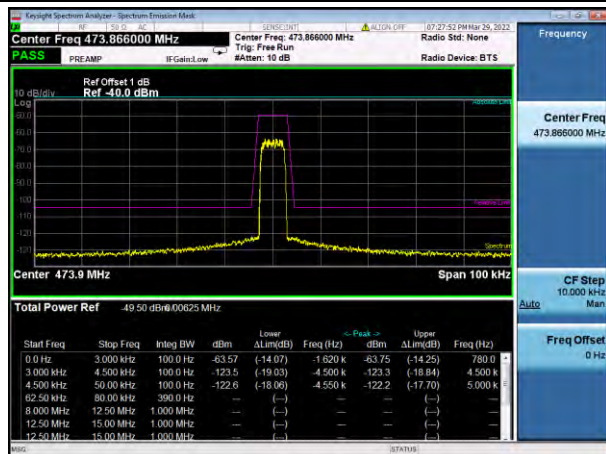
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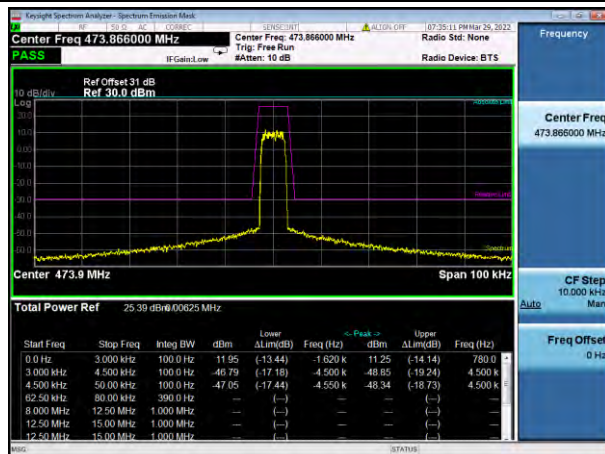
470-512MHz_(470.05MHz)

6.25kHz CQPSK _ Mask E

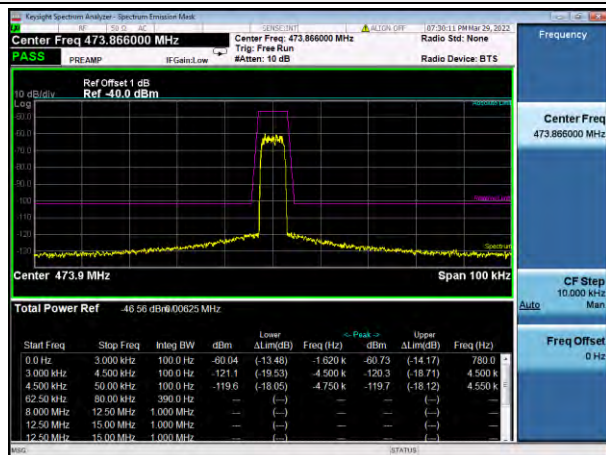
Pre-AGC_ Input



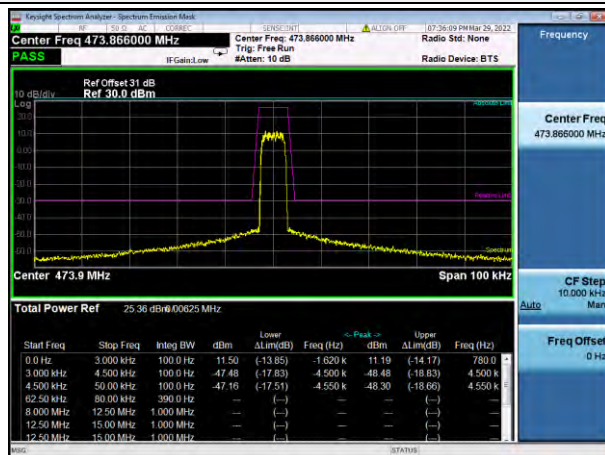
Pre-AGC_ Output



3dB Above Pre-AGC_ Input



3dB Above AGC_ Output

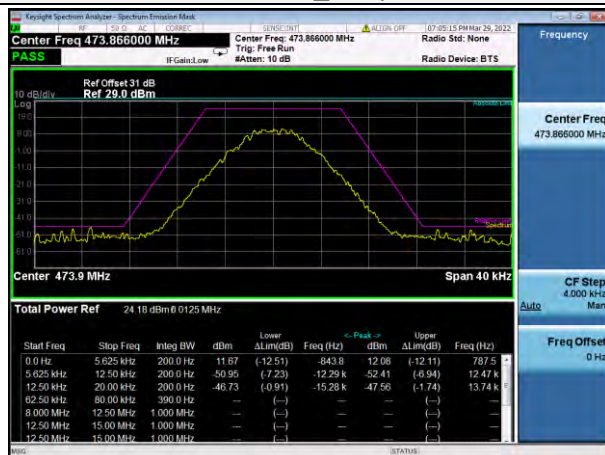


12.5kHz FM _ Mask D

Pre-AGC_ Input



Pre-AGC_ Output



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3dB Above Pre-AGC_ Input



3dB Above AGC_ Output



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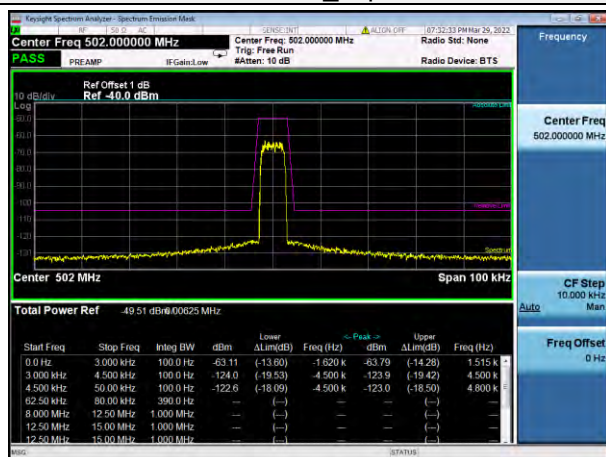
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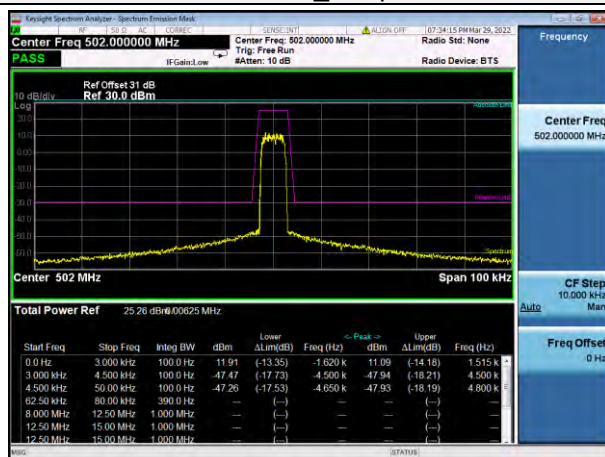
470-512MHz_(511.95MHz)

6.25kHz CQPSK _ Mask E

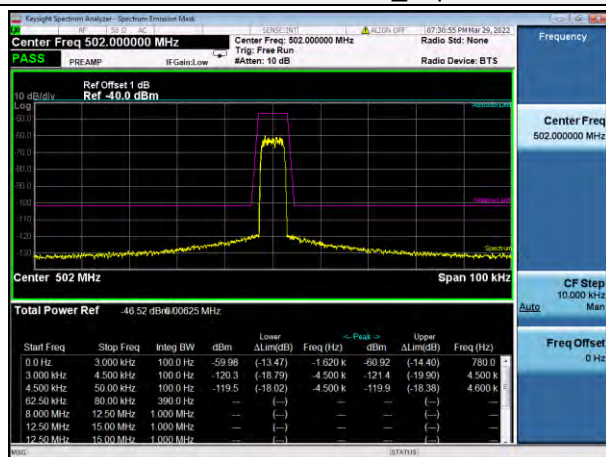
Pre-AGC_ Input



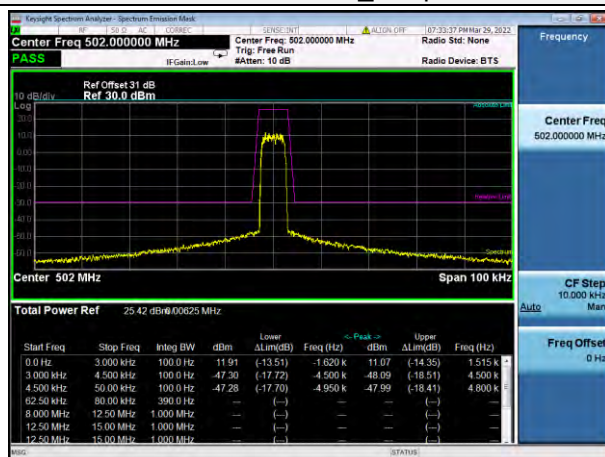
Pre-AGC_ Output



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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