

BRF MMIC Innovator

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[Classification] Application Note

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[Measuring Instruments]

- NA_Agilent 8753ES

- SA_Agilent E4404B

- SG_Agilent 4438C

- SG_IFR 3416

Wide Band Medium Power Amp BT013

Application Note



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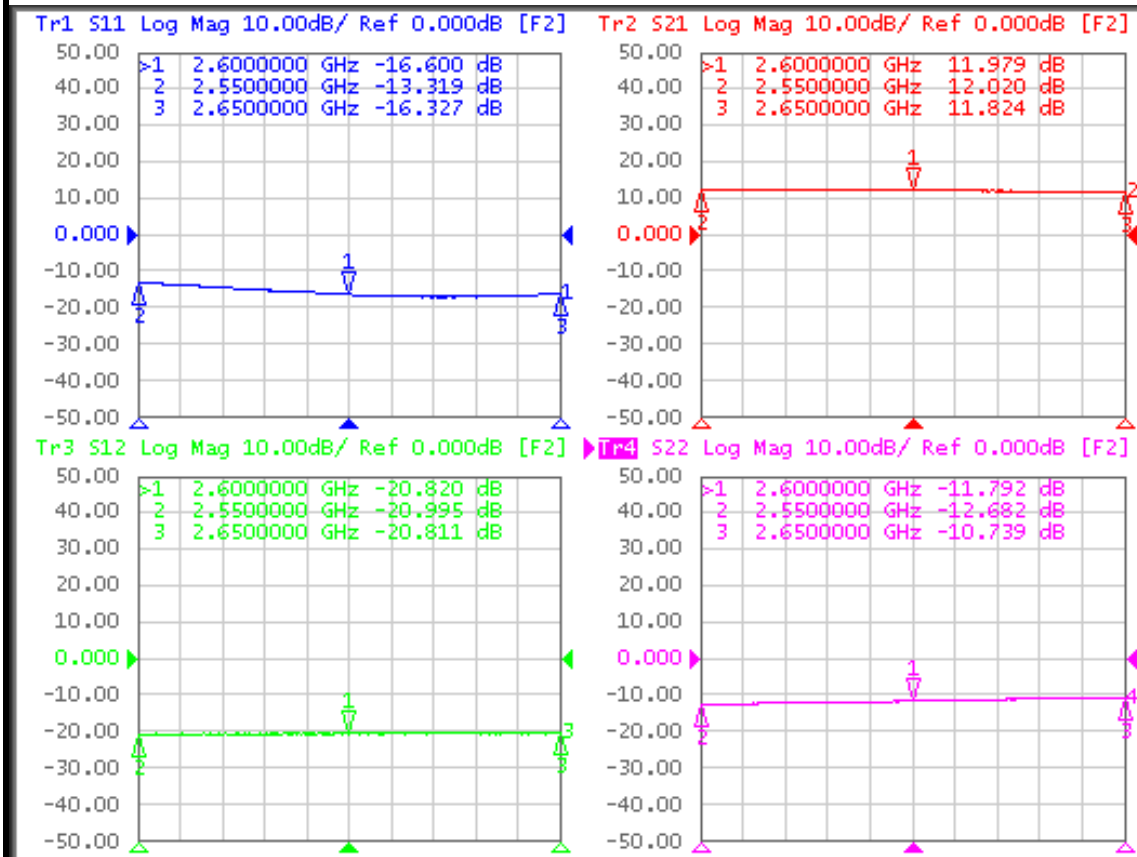
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1.1 BT013_2600MHz Test Result

SN	Freq [MHz]	Vcc [V]	Icc [mA]	Gain [dB]	OIP3 [dBm] ⁽¹⁾	P1dB [dBm]	IRL [dB]	ORL [dB]	NF [dB]
-	2600	5	140	12	40.5	26.3	-16.6	-11.8	6.8

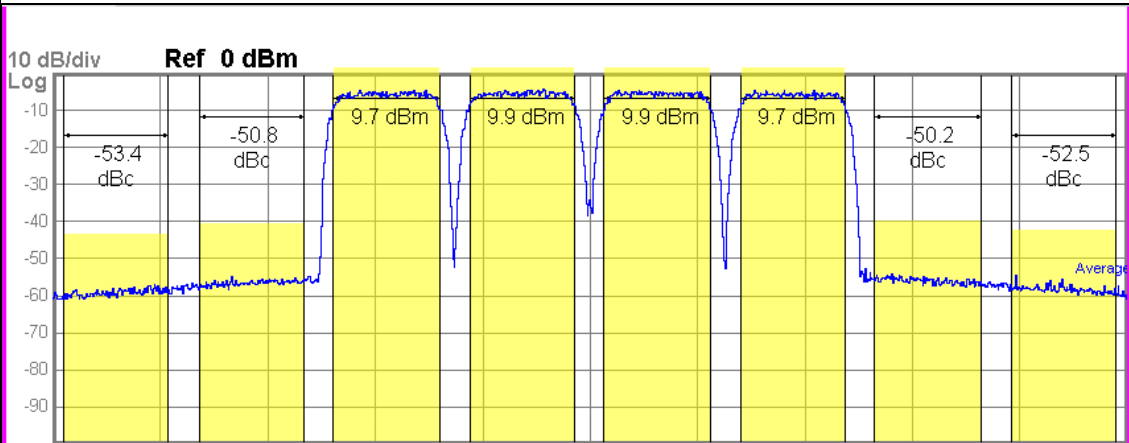
(1) OIP3_tested @Pout=13dBm/tone 1MHz offset



1-1. WCDMA 4FA_ ACLR Test Result

Out Power : 15.85 dBm

WCDMA 4FA : 2600 -50dBc



Center 2.6 GHz #Res BW 100 kHz #VBW 300 kHz Span 39.68 MHz #Sweep 29 ms

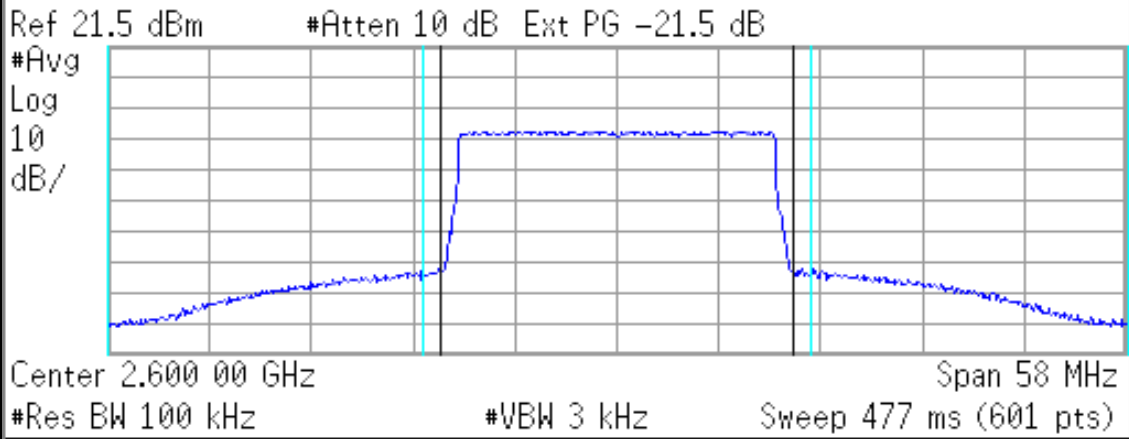
Total Carrier Power 15.850 dBm/ 15.36 MHz ACP-IBW

Carrier Power	Filter	Offset Freq	Integ BW	Lower		Upper		Filter
				dBc	dBm	dBc	dBm	
1 9.714 dBm / 3.840 MHz	ON	5.000 MHz	3.840 MHz	-50.83	-40.90	-50.20	-40.27	ON
2 9.922 dBm / 3.840 MHz	OFF	10.00 MHz	3.840 MHz	-53.36	-43.43	-52.49	-42.56	ON
3 9.933 dBm / 3.840 MHz	OFF							
4 9.732 dBm / 3.840 MHz	OFF							

1-2. LTE_20MHz_ACLR Test Result

Out Power : 15.61 dBm

LTE_FDD_20MHz_TM 3p1_100 : 2600 -50dBc



RMS Results		Freq Offset	Ref BW	dBc	Lower dBm	dBc	Upper dBm
Carrier Power	20.00 MHz	18.00 MHz	-50.33	-34.73	-50.04	-34.43	
15.61 dBm /	20.0000 MHz						