



**SUMMARY TEST DATA
ON
6SFB-100M18G-1MP-MAH**

Customer: _____ Tested By: F. HOYOS / S. PALACIO
 SO No: _____ Temperature: +25°C
 Model No: 6SFB-100M18G-1MP-MAH Date: 9/15/2014
 Serial No: PL15831/1436 Drawing No: 27619661 Rev: B1

TEST ITEM NO:	PARAMETERS	SPECIFIED VALUE	MEASURED VALUE	REMARKS QA/QC
1	Frequency	100 MHz–18.0 GHz	100 MHz-18.0 GHz	
2	Gain	18 dB Typ.	18.9 to 27.5 dB	
3	Isolation J1, J6	100 dB	120 dB Typ	
4	Switching Speed	100 ns	100 ns	
5	J1 Input Frequency (Input from Backplane)	100 MHz-18.0 GHz	100 MHz-18.0 GHz	
6	J1 Input Power Level	-80 dBm to -10dBm	-80 to -10dBm	
7	J6 Input Frequency (Input from Transceiver)	100 MHz-18.0 GHz	100 MHz-18.0 GHz	
8	J6 Input Power Level	-52 dBm to -22dBm	-52 to -22dBm	
9	J3 Output Frequency (LO2 from Backplane)	100 MHz-18.0 GHz	100 MHz-18.0 GHz	
10	J3 Output Power Level	-62 dBm to +8 dBm Typ.	-61 to +10 dBm Typ	
11	Thru Channel Passband Frequency	100 MHz-18 GHz	100 MHz – 18 GHz	
12	Channel 1 Center Frequency	3400 MHz	3400 MHz	
13	Channel 1 (3 dB Bandwidth)	2000 MHz	2000 MHz	
14	Channel 1 Rejection	-40 dBc Typ, -30 dBc Min 100 MHz- 2 GHz, 4.8 GHz– 18 GHz	-50 dBc -33 dBc	
15	Channel 2 Center Frequency	5400 MHz	5400 MHz	



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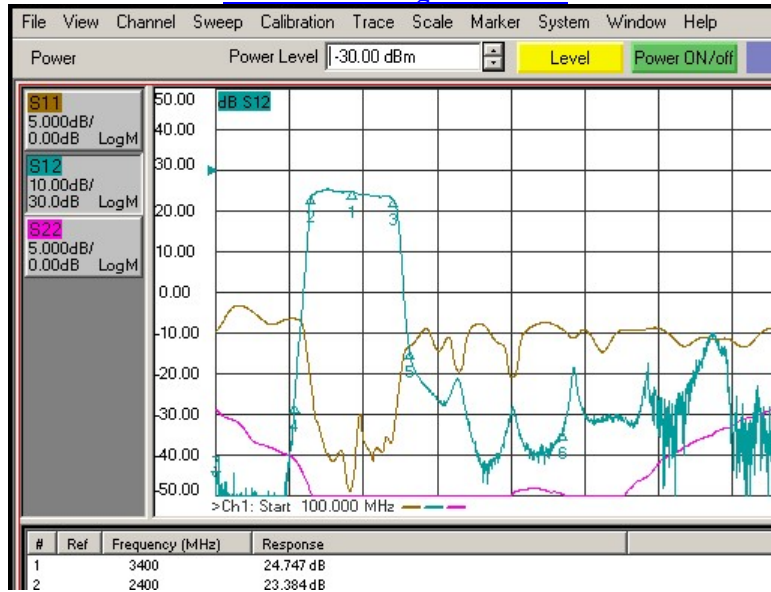
TEST ITEM NO:	PARAMETERS	SPECIFIED VALUE	MEASURED VALUE	REMARKS QA/QC
16	Channel 2 (3 dB Bandwidth)	2000 MHz	2000 MHz	
17	Channel 2 Rejection	-40 dBc Typ, -30 dBc Min 100 MHz - 4 GHz, 6.8 GHz – 18 GHz	-45 dBc -36 dBc	
18	Channel 3 Center Frequency	7400 MHz	7400 MHz	
19	Channel 3 dB Bandwidth	2000 MHz	2000 MHz	
20	Channel 3 Rejection	-40 dBc Typ, -30 dBc Min 100 MHz-6 GHz, 8.8 GHz–18 GHz	-37 dBc -31 dBc	
21	Channel 4 Center Frequency	9400 MHz	9400 MHz	
22	Channel 4 (3 dB Bandwidth)	2000 MHz	2000 MHz	
23	Channel 4 Rejection	-40 dBc Typ, -30 dBc Min 100 MHz-8 GHz, 10.8 GHz–18 GHz	-42 dBc -30 dBc	
24	Channel 5 Center Frequency	11400 MHz	11400 MHz	
25	Channel 5 (3 dB Bandwidth)	2000 MHz	2000 MHz	
26	Channel 5 Rejection	-40 dBc Typ, -30 dBc Min 100 MHz-10 GHz, 12.8 GHz–18 GHz	-43 dBc -32 dBc	
27	Control Logic	3.3 V TTL	3.3 V TTL	
28	Power Supply	+12 V, -12 V, +5 V, +3.3V	+12V@ 165mA +5V@ 307mA +3.3V@ 0mA -12V@ 160mA	

QA/QC Approval: _____ Date: _____



**SUMMARY TEST DATA
ON
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**Channel 1
Broad Band – High Gain Path**



Broad Band – Loss Path





**SUMMARY TEST DATA
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**Channel 1
Narrow Band – High Gain Path**



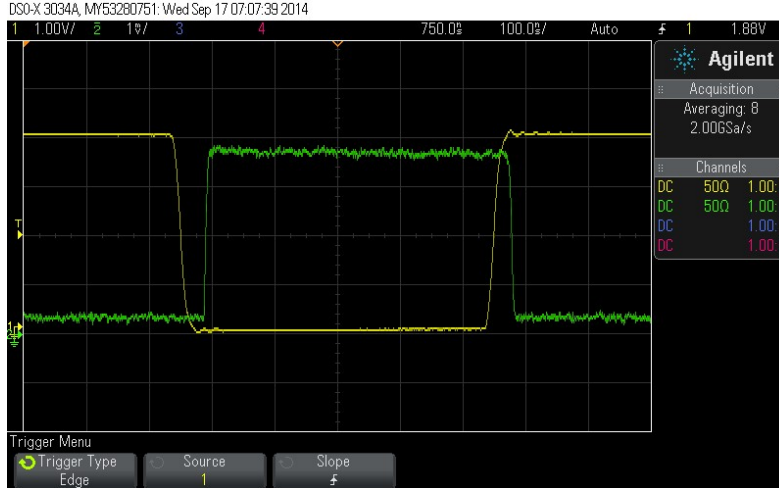
Narrow Band – Loss Path





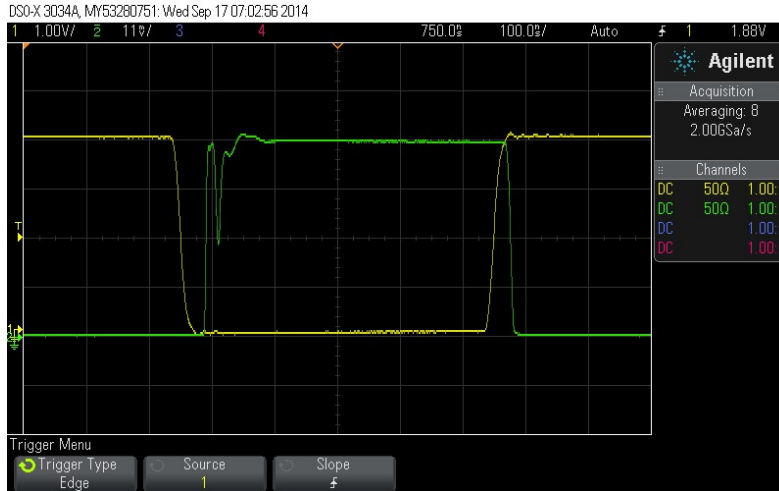
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Channel 1
Switching Speed – High Gain Path



Yellow Trace: TTL Signal / Green Trace: RF Signal

Switching Speed – Loss Path

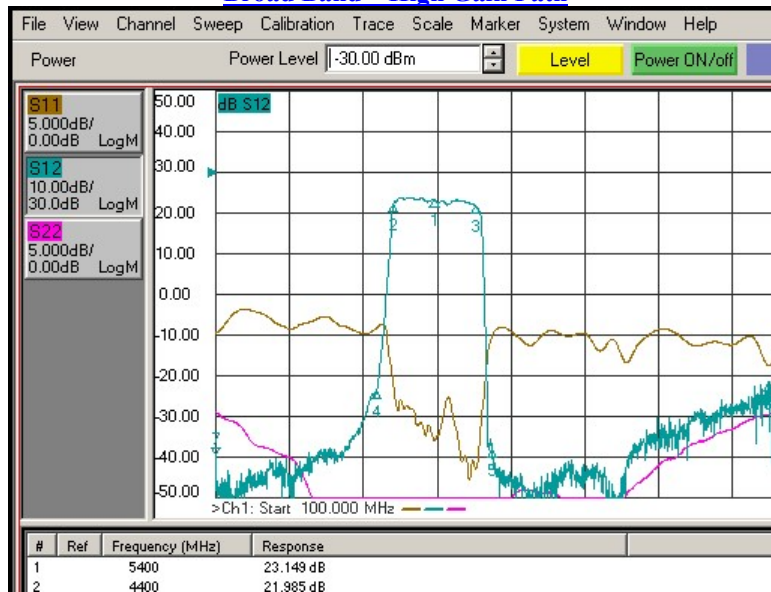


Yellow Trace: TTL Signal / Green Trace: RF Signal



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Channel 2
Broad Band – High Gain Path



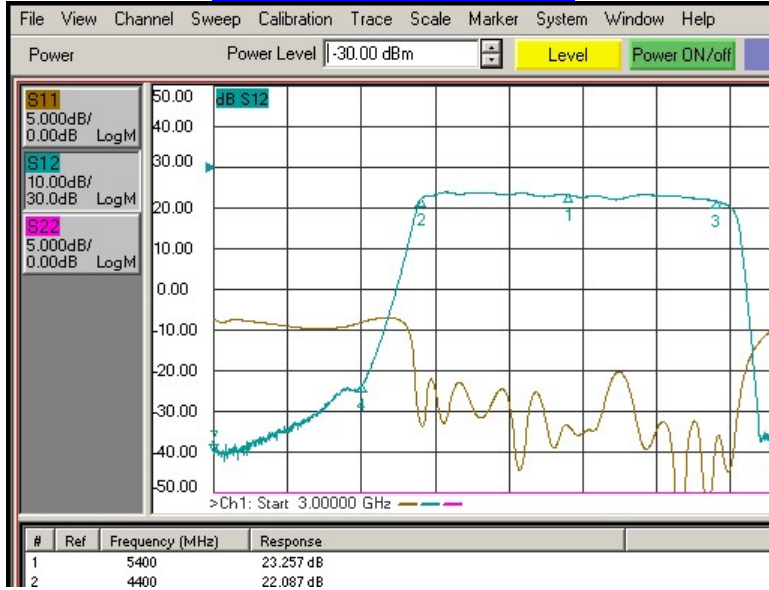
Broad Band – Loss Path





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Channel 2
Narrow Band – High Gain Path



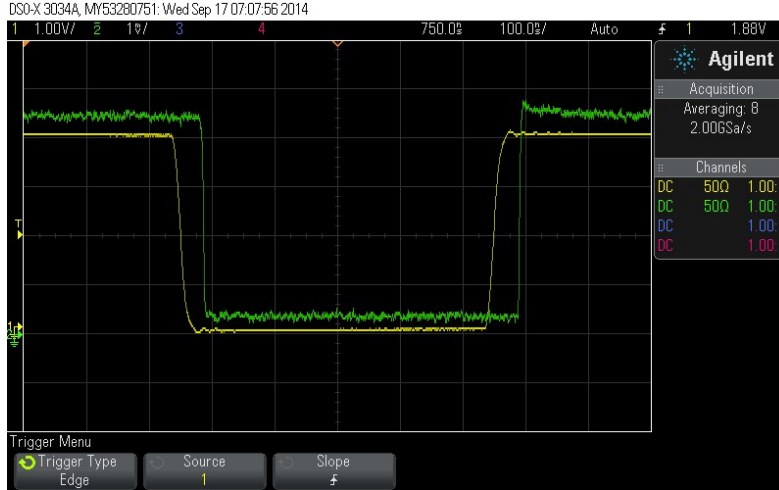
Narrow Band – Loss Path





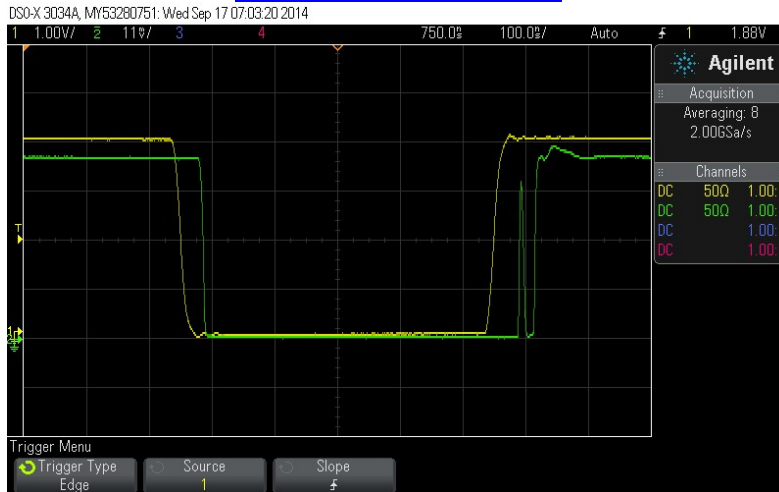
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Channel 2
Switching Speed – High Gain Path



Yellow Trace: TTL Signal / Green Trace: RF Signal

Switching Speed – Loss Path

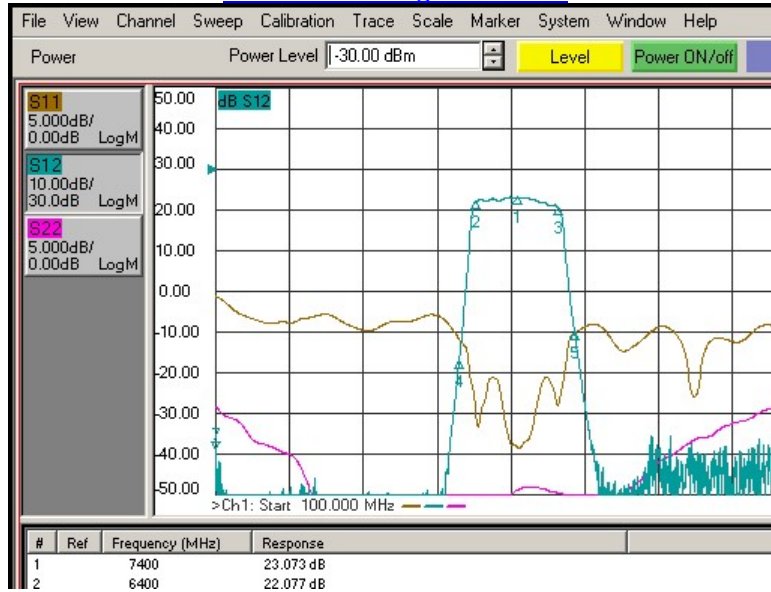


Yellow Trace: TTL Signal / Green Trace: RF Signal

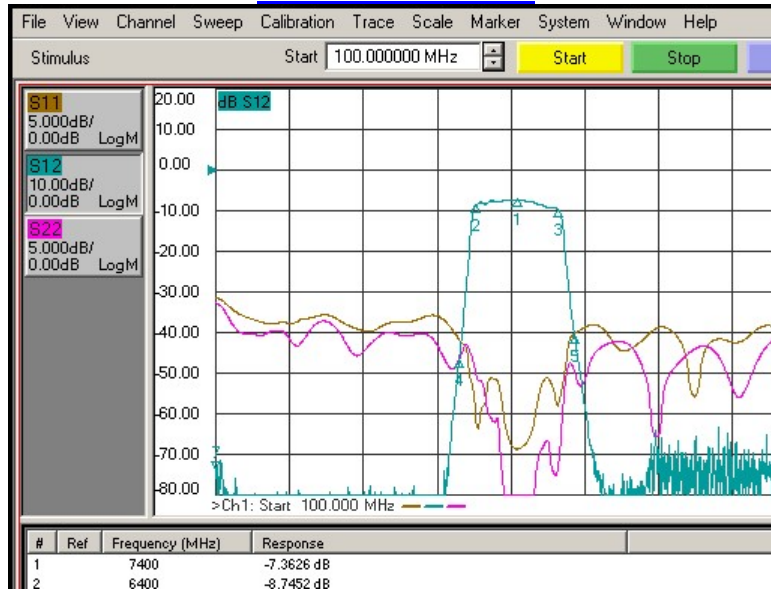


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**Channel 3
Broad Band – High Gain Path**



Broad Band – Loss Path





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Channel 3
Narrow Band – High Gain Path



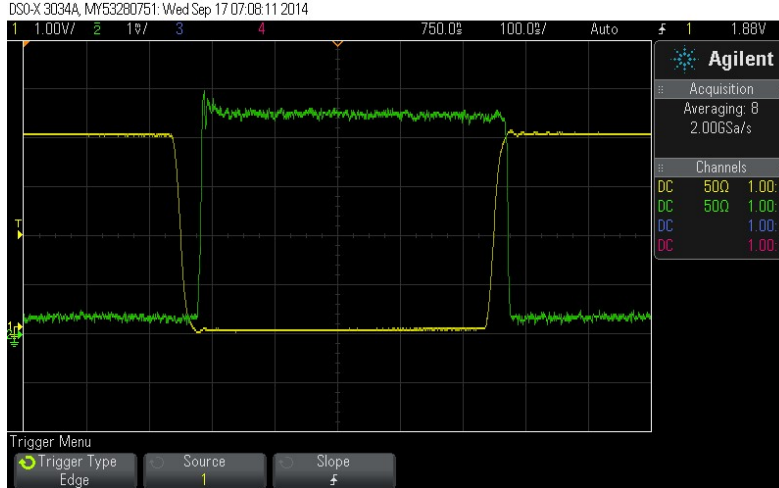
Narrow Band – Loss Path





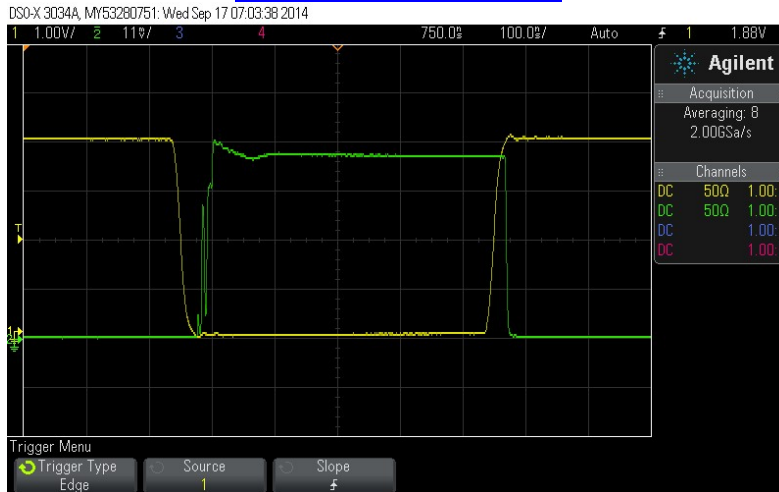
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**Channel 3
Switching Speed – High Gain Path**



Yellow Trace: TTL Signal / Green Trace: RF Signal

Switching Speed – Loss Path



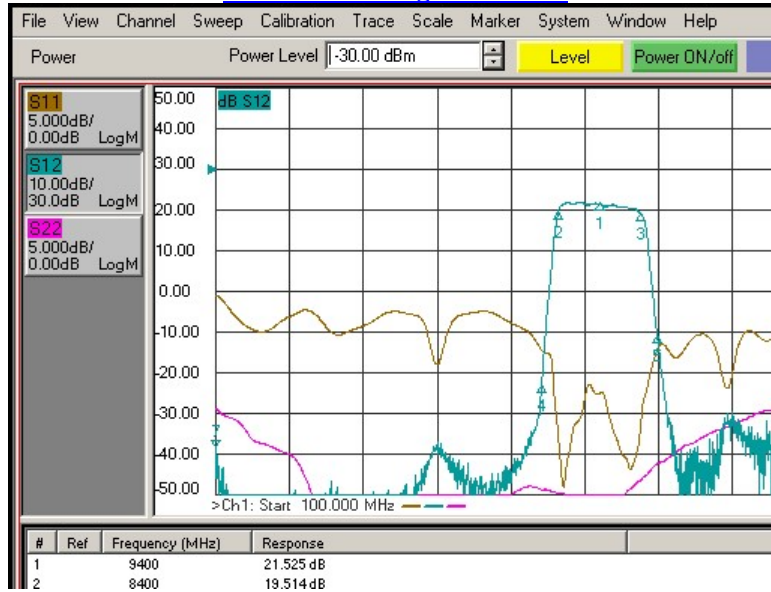
Yellow Trace: TTL Signal / Green Trace: RF Signal



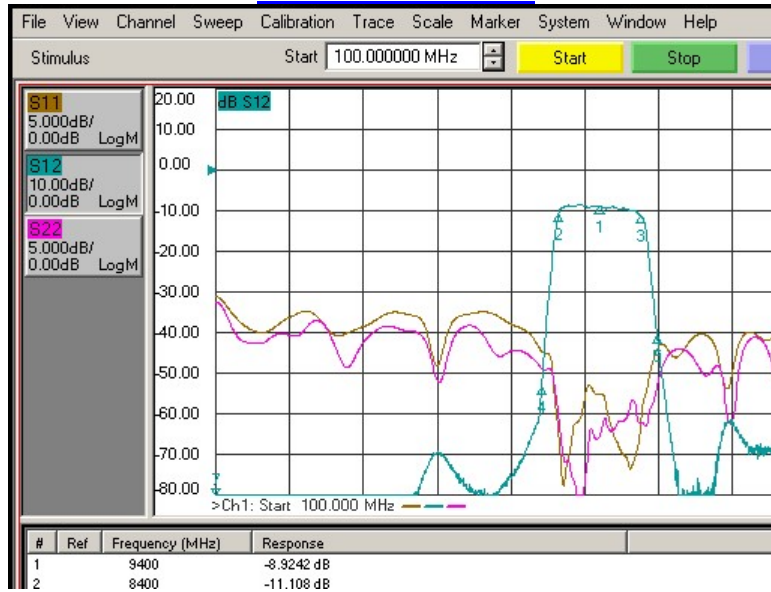
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Channel 4

Broad Band – High Gain Path



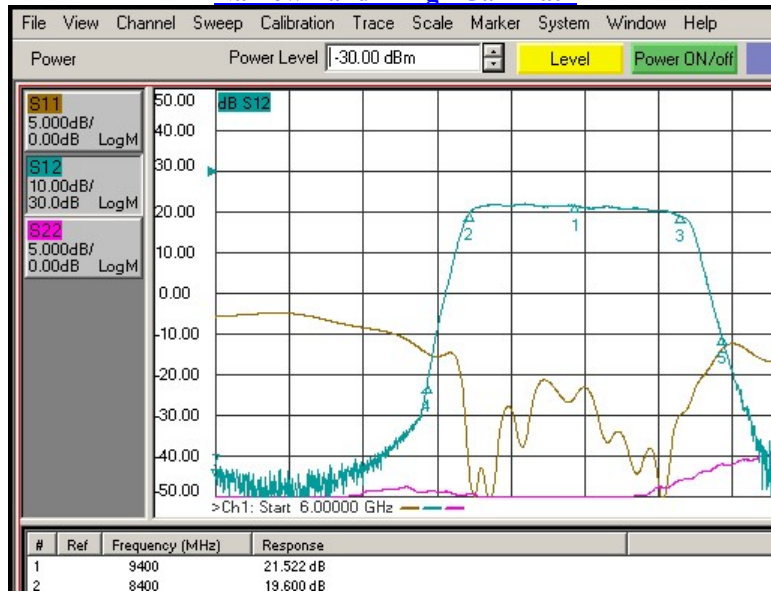
Broad Band – Loss Path





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Channel 4
Narrow Band – High Gain Path



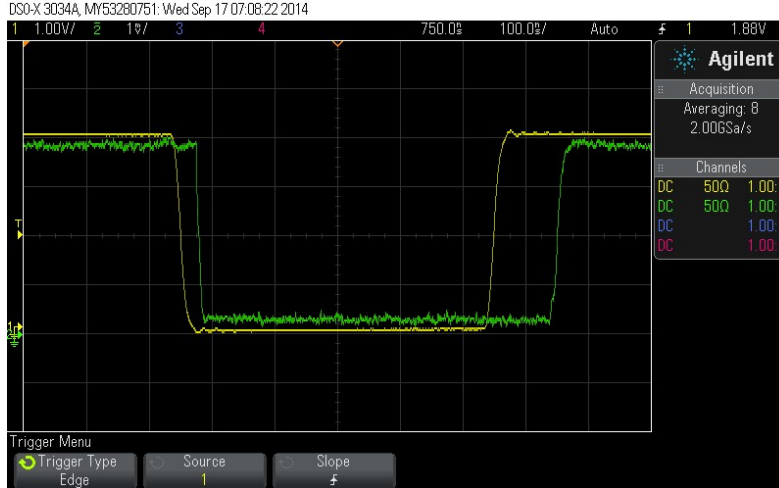
Narrow Band – Loss Path





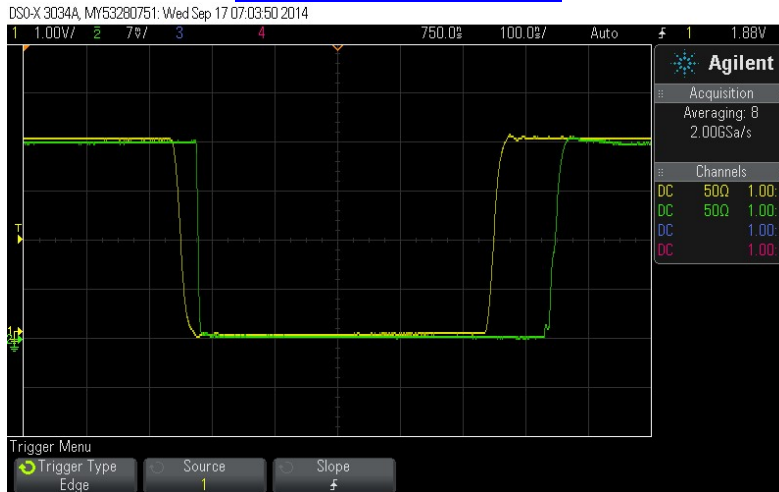
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**Channel 4
Switching Speed – High Gain Path**



Yellow Trace: TTL Signal / Green Trace: RF Signal

Switching Speed – Loss Path



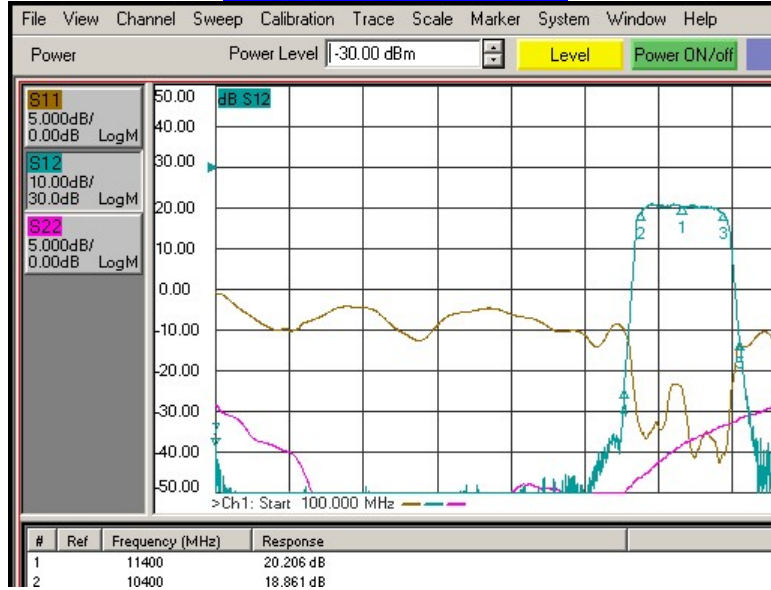
Yellow Trace: TTL Signal / Green Trace: RF Signal



**SUMMARY TEST DATA
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Channel 5

Broad Band – High Gain Path



Broad Band – Loss Path



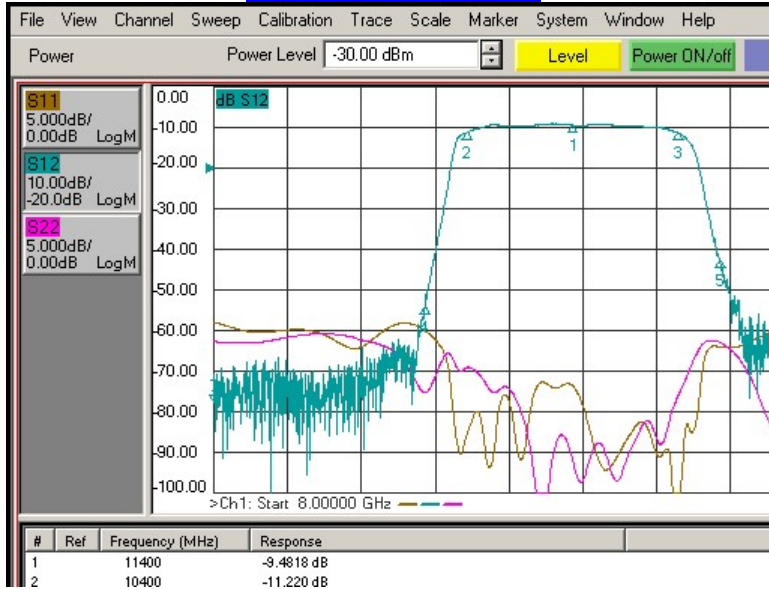


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**Channel 5
Narrow Band – High Gain Path**



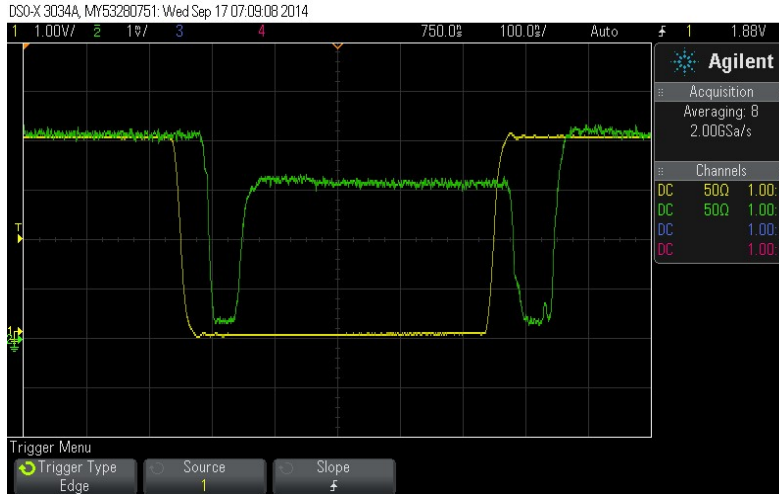
Narrow Band – Loss Path





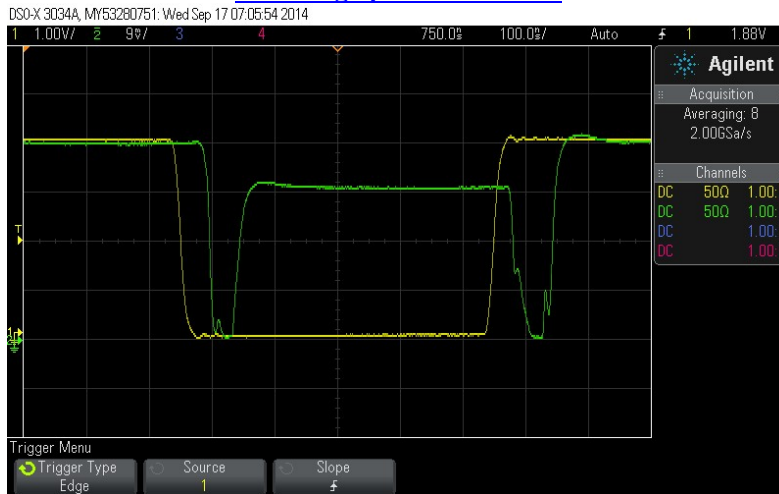
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**Channel 5
Switching Speed – High Gain Path**



Yellow Trace: TTL Signal / Green Trace: RF Signal

Switching Speed – Loss Path

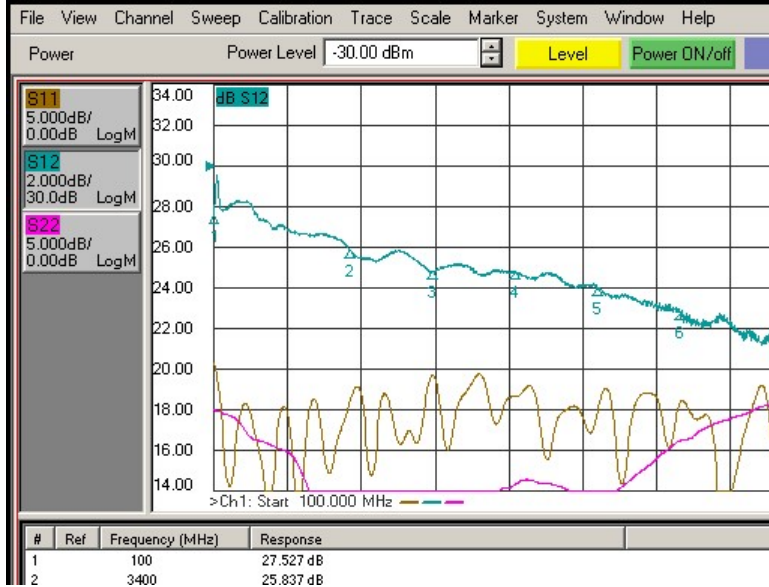


Yellow Trace: TTL Signal / Green Trace: RF Signal



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Thru Channel – High Gain Path



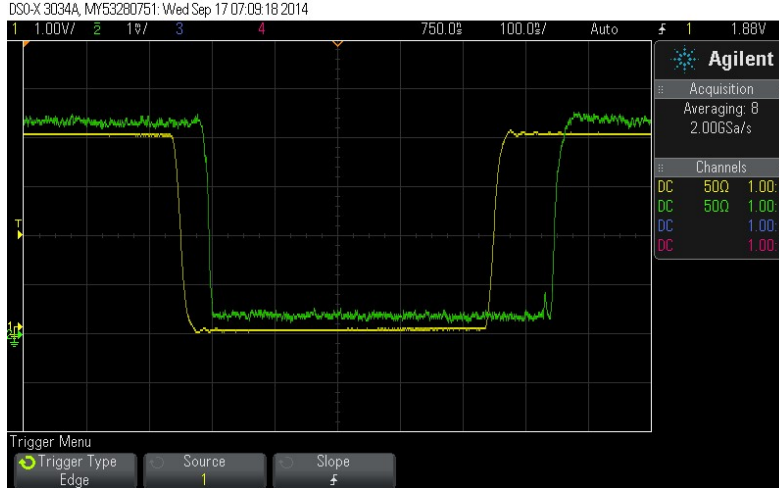
Thru Channel – Loss Path





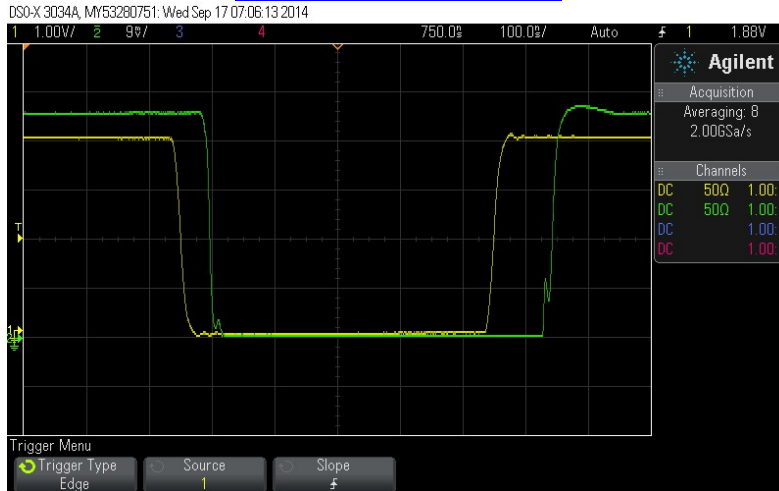
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**Thru Channel
Switching Speed – High Gain Path**



Yellow Trace: TTL Signal / Green Trace: RF Signal

Switching Speed – Loss Path



Yellow Trace: TTL Signal / Green Trace: RF Signal



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Input Switch Isolation

