



**SUMMARY TEST DATA
ON
6SFB-CC-100M18G-MAH-RX-TX**

Customer: _____ SO No: <u>SO14-309</u> Model No: <u>6SFB-CC-100M18G-MAH-RX-TX</u> Serial No: <u>PL17205</u>	Tested By: <u>B. Wakenight / F. Hoyos / S. Palacio</u> Temperature: <u>+25°C</u> Date: <u>5/12/15</u> Drawing No: <u>27624332</u> Rev: <u>A1</u>
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TEST ITEM NO:	PARAMETERS	SPECIFIED VALUE	MEASURED VALUE	REMARKS QA/QC
1	J1 Input Frequency (RF RX Input)	100MHz-18.0GHz	100MHz-18.0GHz See Plot	
2	J1 Input Power Level	-80dBm to -10dBm Typical	-80dBm to -10dBm	
3	J5 Input Frequency (RF TX Input)	100MHz-18.0GHz	100MHz-18.0GHz See Plot	
4	J5 Input Power Level	-20dBm to -15dBm Typical	-20dBm to -15dBm	
5	J7 Input Frequency (RF BIT RX Input)	100MHz-18.0GHz	100MHz-18.0GHz See Plot	
6	J7 Input Power Level	-20dBm to -15dBm Typical	-20dBm to -15dBm	
7	J2 Output Frequency (RF RX Output)	100MHz-18.0GHz	100MHz-18.0GHz See Plot	
8	J2 Output Power Level	-62dBm to +8dBm Typical	65dBm to +15dBm	
9	J6 Output Frequency (RF TX Output)	100MHz-18.0GHz	100MHz-18.0GHz See Plot	
10	J6 Output Power Level	0dBm to +10dBm Typical	+2dBm to +12dB	
11	J1 RX Path Gain	18dB Typical	14dB to 27dB	
12	J7 RX BIT Path Insertion Loss	10dB Typical	5dB to 14dB	
13	(J1 to J2) to (J7 to J2) RX Isolation	100dB Typical	117.68dB See Plot	
14	J5 TX Path Gain	32dB Typical	30dB to 40dB	
15	VSWR Over 90% Passband	2 : 1 Maximum	2.0:1 See Plots	



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16	Switching Speed	100ns Typical	75.0ns See Plots	
17	Thru Channel Passband	100MHz-18.0GHz	100MHz-18.0GHz See Plots	
18	Channel 1 Center Frequency	3400MHz	3400MHz	
19	Channel 1 3dB Bandwidth	2000MHz	2000MHz	
20	Channel 1 Rejection	-40dBc Typical, -30dBc Minimum 100MHz-2.0GHz,	-56.41dBc See Plot	
		-40dBc Typical, -30dBc Minimum 4.8GHz-18.0GHz	-51.99dBc See Plot	
21	Channel 1 TX Rejection	-40dBc Typical, -30dBc Minimum 100MHz-2.0GHz,	-54.51dBc See Plot	
		-40dBc Typical, -30dBc Minimum 4.8GHz-18.0GHz	-54.63dBc See Plot	
22	Channel 2 Center Frequency	5400MHz	5400MHz	
23	Channel 2 3dB Bandwidth	2000MHz	2000MHz	
24	Channel 2 RX Rejection	-40dBc Typical, -30dBc Minimum 100MHz-4.0GHz,	-50.20dBc See Plot	
		-40dBc Typical, -30dBc Minimum 6.8GHz-18.0GHz	-38.21dBc See Plot	
25	Channel 2 TX Rejection	-40dBc Typical, -30dBc Minimum 100MHz-4.0GHz,	-66.58dBc See Plot	
		-40dBc Typical, -30dBc Minimum 6.8GHz-18.0GHz	-38.01dBc See Plot	
26	Channel 3 Center Frequency	7400MHz	7400MHz	
27	Channel 3 3dB Bandwidth	2000MHz	2000MHz	
28	Channel 3 RX Rejection	-40dBc Typical, -30dBc Minimum 100MHz-6.0GHz,	-66.39dBc See Plot	
		-40dBc Typical,	-35.67dBc See Plot	



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		-30dBc Minimum 8.8GHz-18.0GHz		
29	Channel 3 TX Rejection	-40dBc Typical, -30dBc Minimum 100MHz-6.0GHz, -40dBc Typical, -30dBc Minimum 8.8GHz-18.0GHz	-61.82dBc See Plot -35.80dBc See Plot	
30	Channel 4 Center Frequency	9400MHz	9400MHz	
31	Channel 4 3dB Bandwidth	2000MHz	2000MHz	
32	Channel 4 RX Rejection	-40dBc Typical, -30dBc Minimum 100MHz-8.0GHz, -40dBc Typical, -30dBc Minimum 10.8GHz-18.0GHz	-44.84dBc See Plot -39.34dBc See Plot	
33	Channel 4 TX Rejection	-40dBc Typical, -30dBc Minimum 100MHz-8.0GHz, -40dBc Typical, -30dBc Minimum 10.8GHz-18.0GHz	-56.00dBc See Plot -37.06dBc See Plot	
34	Channel 5 Center Frequency	11400MHz	11400MHz	
35	Channel 5 3dB Bandwidth	2000MHz	2000MHz	
36	Channel 5 RX Rejection	-40dBc Typical, -30dBc Minimum 100MHz-10.0GHz, -40dBc Typical, -30dBc Minimum 12.8GHz-18.0GHz	-49.19dBc See Plot -36.17Bc See Plot	
37	Channel 5 TX Rejection	-40dBc Typical, -30dBc Minimum 100MHz-10.0GHz, -40dBc Typical, -30dBc Minimum 12.8GHz-18.0GHz	-54.53dBc See Plot -39.07dBc See Plot	
38	Control Logic	TTL '0': 0V to 0.8V TTL '1': 2V to 5V	Pass	



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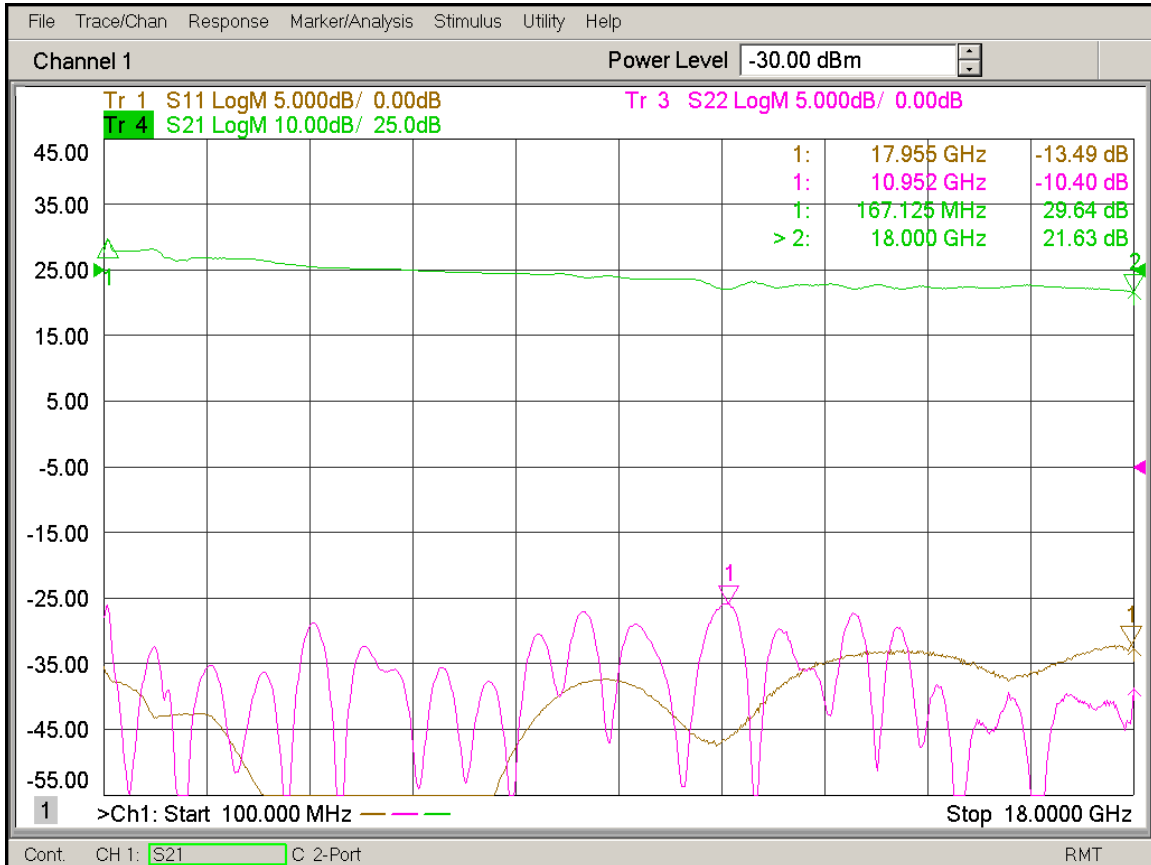
39	Power Supplies	+12V @ 600mA Max +5V @ 550mA Max +3.3V @ 0A -12V @ 300mA Max	+12V @ 471mA +5V @ 115mA +3.3V @ 0mA -12V @ 132mA	
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QA/QC Approval: _____ Date: _____



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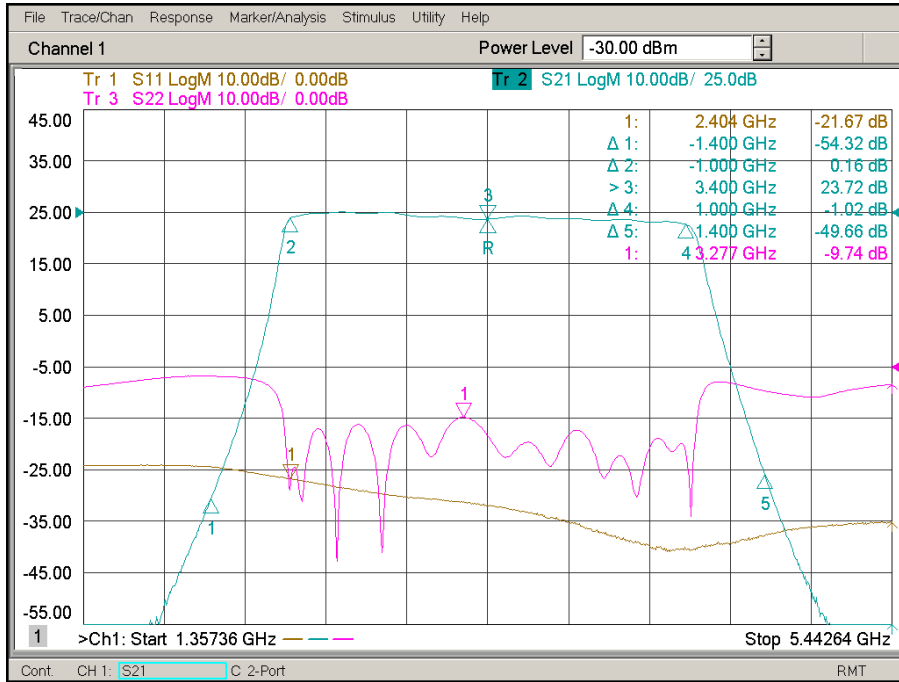
RX Thru Path (J1 RX IN)



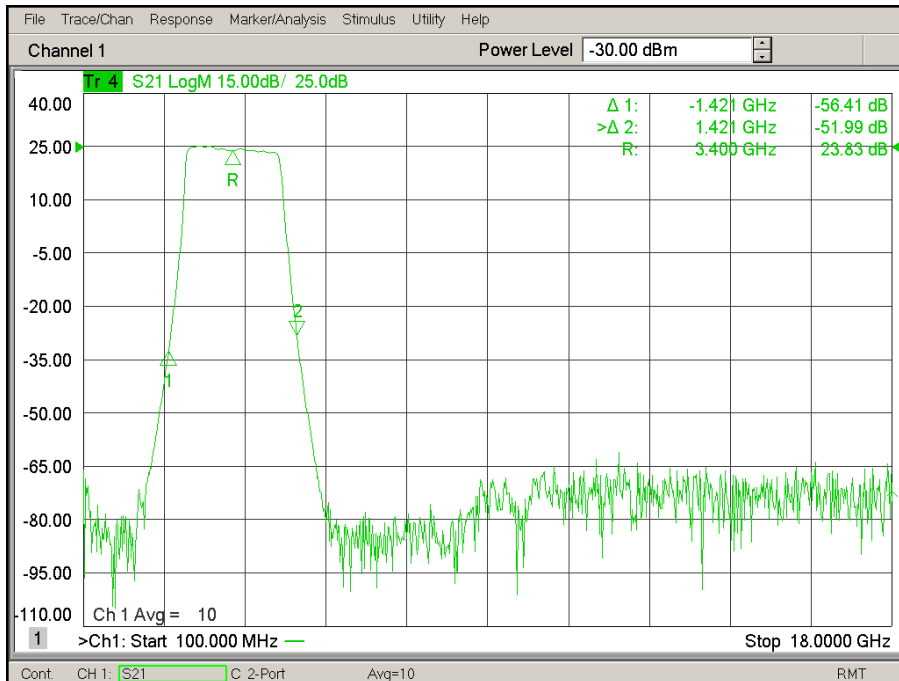


**SUMMARY TEST DATA
ON
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RX Ch1 Path Narrow Band (J1 RX IN)



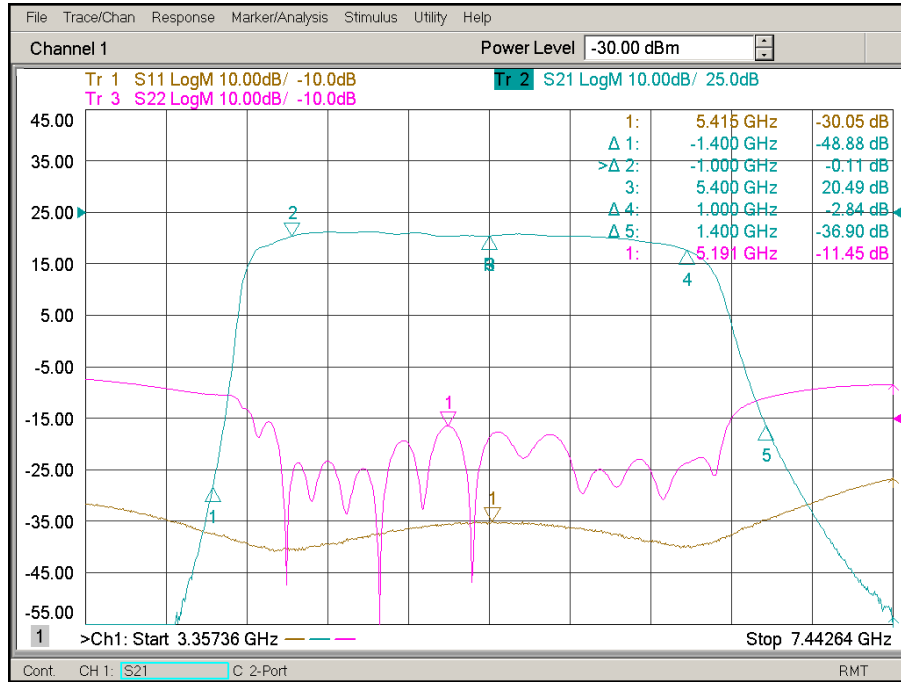
RX Ch1 Path Broadband (J1 RX IN)



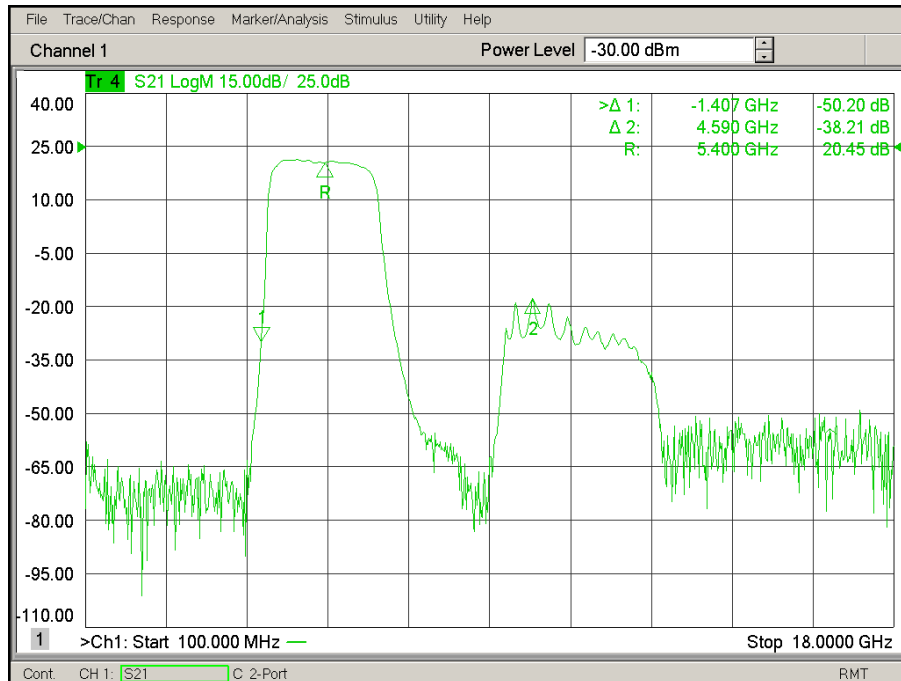


**SUMMARY TEST DATA
ON
6SFB-CC-100M18G-MAH-RX-TX**

RX Ch2 Path Narrow Band (J1 RX IN)



RX Ch2 Path Broadband (J1 RX IN)



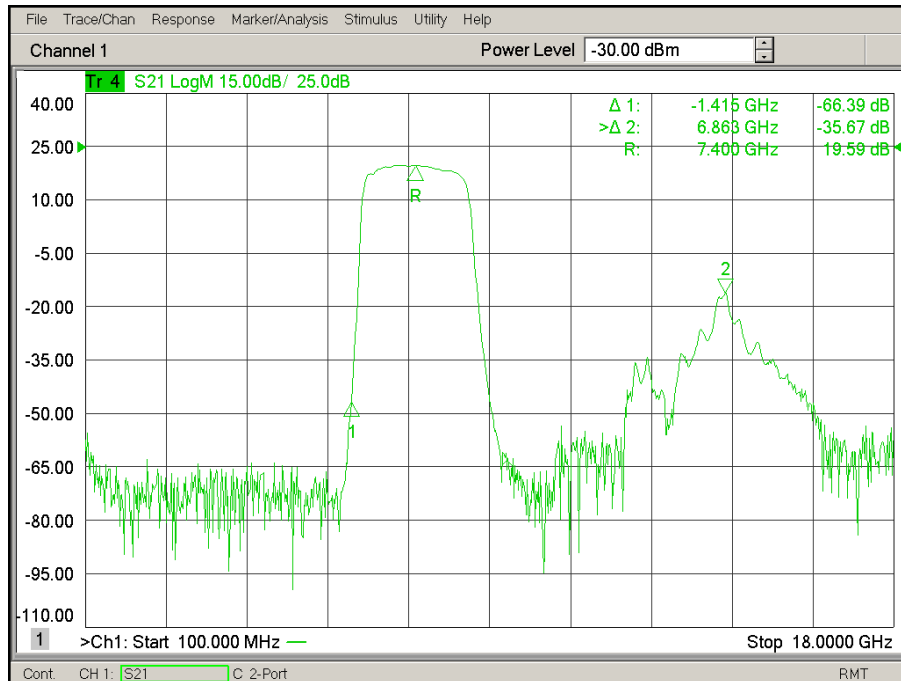


SUMMARY TEST DATA ON 6SFB-CC-100M18G-MAH-RX-TX

RX Ch3 Path Narrow Band (J1 RX IN)



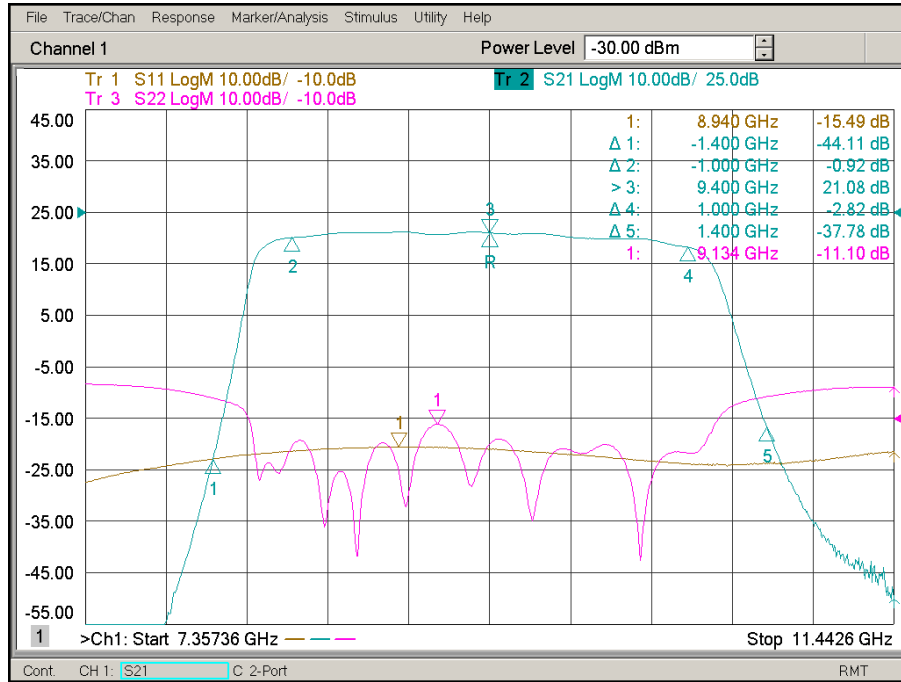
RX Ch3 Path Broadband (J1 RX IN)



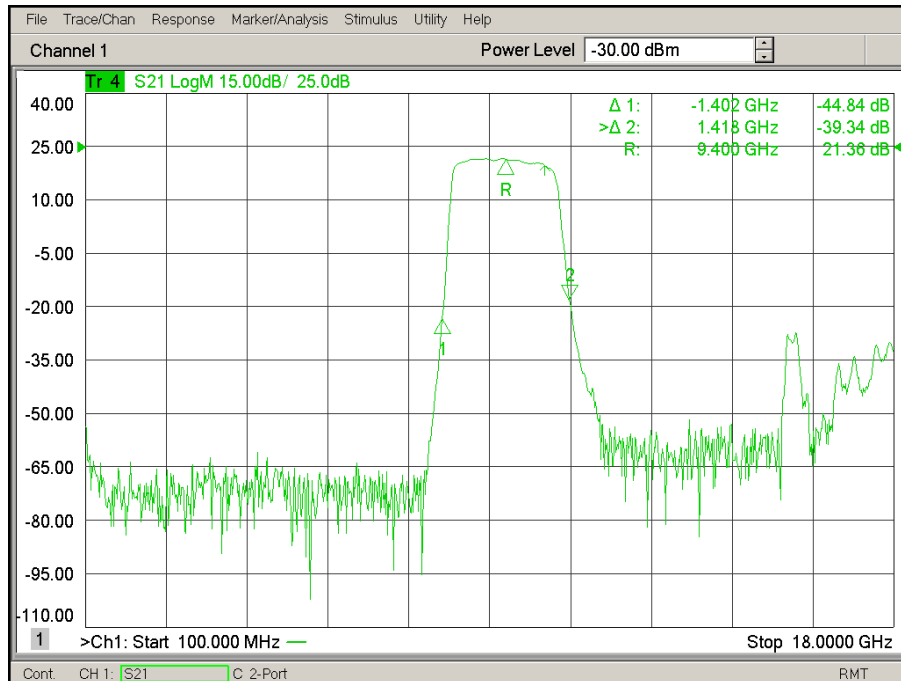


SUMMARY TEST DATA ON 6SFB-CC-100M18G-MAH-RX-TX

RX Ch4 Path Narrow Band (J1 RX IN)



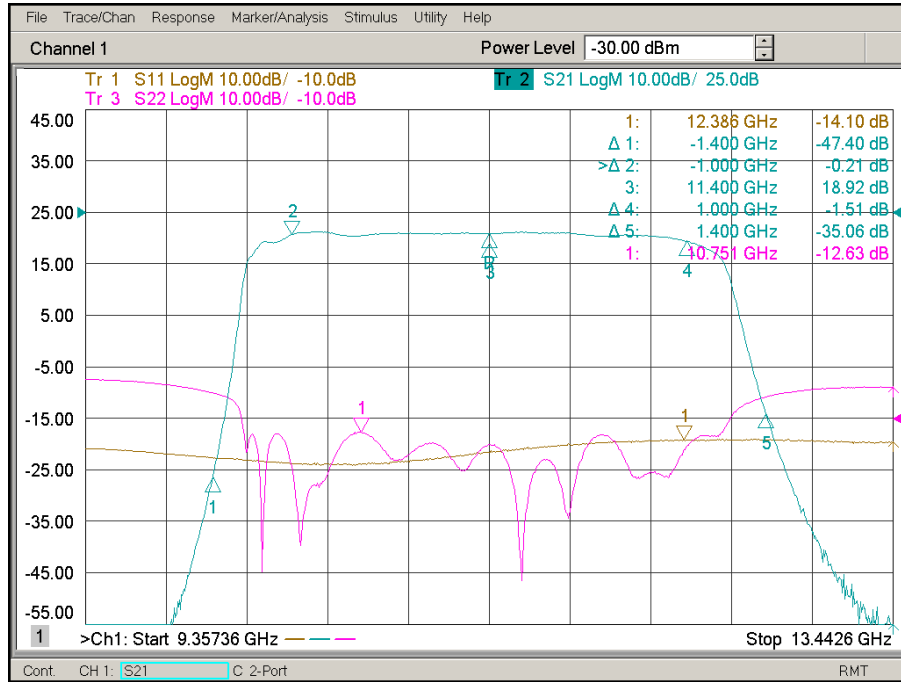
RX Ch4 Path Broadband (J1 RX IN)



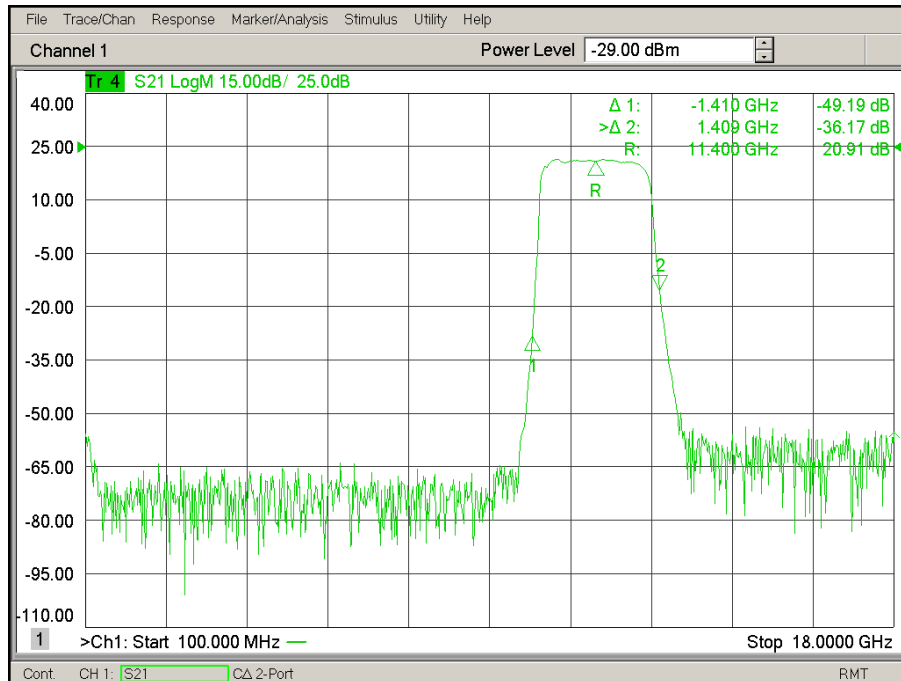


SUMMARY TEST DATA ON 6SFB-CC-100M18G-MAH-RX-TX

RX Ch5 Path Narrow Band (J1 RX IN)



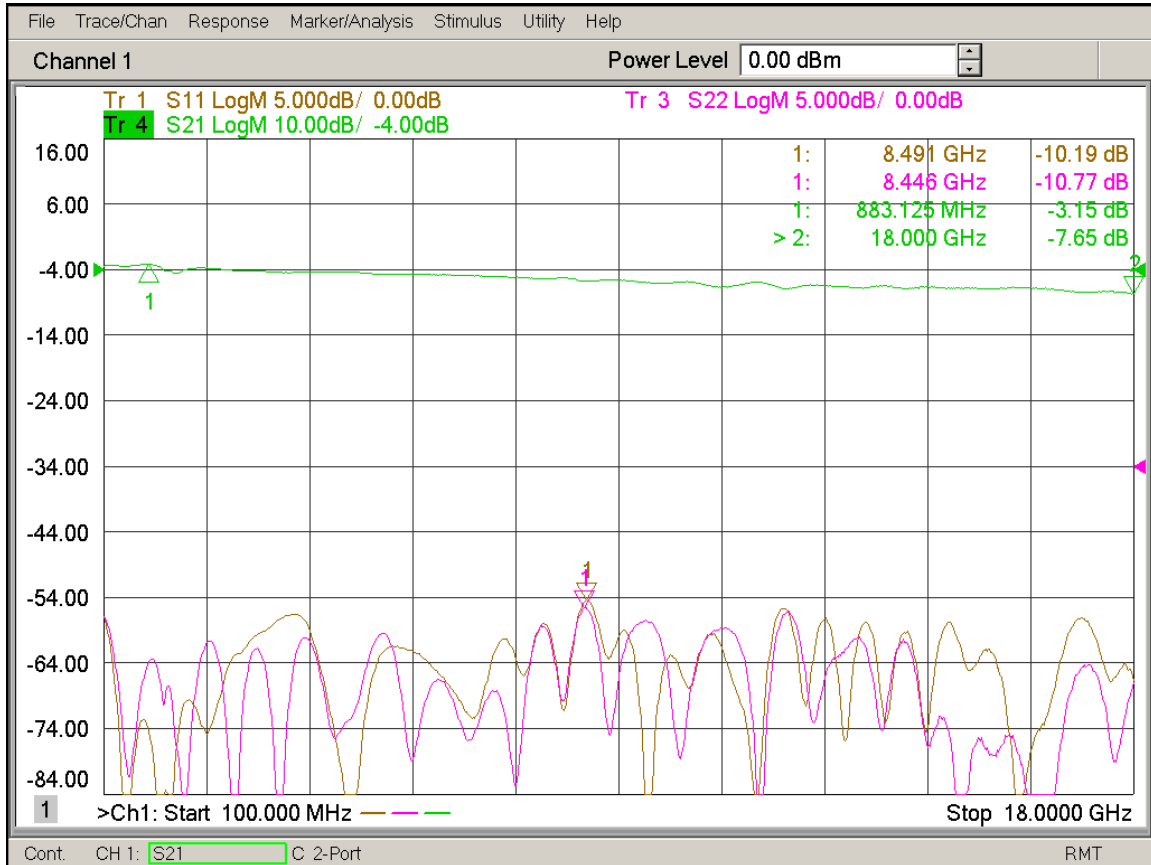
RX Ch5 Path Broadband (J1 RX IN)





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6SFB-CC-100M18G-MAH-RX-TX**

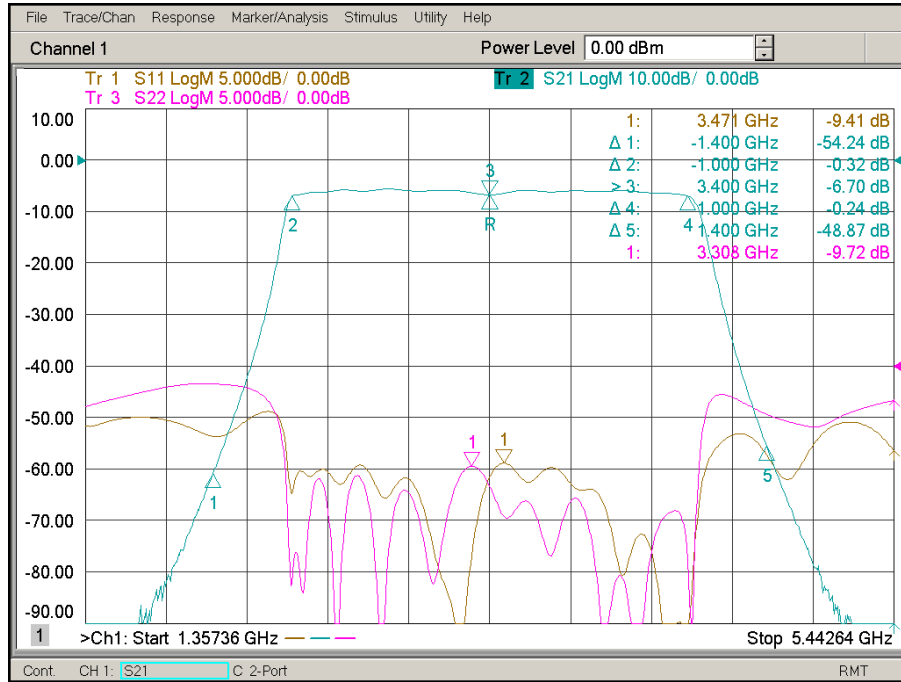
RX Thru Path (J2 RX BIT IN)



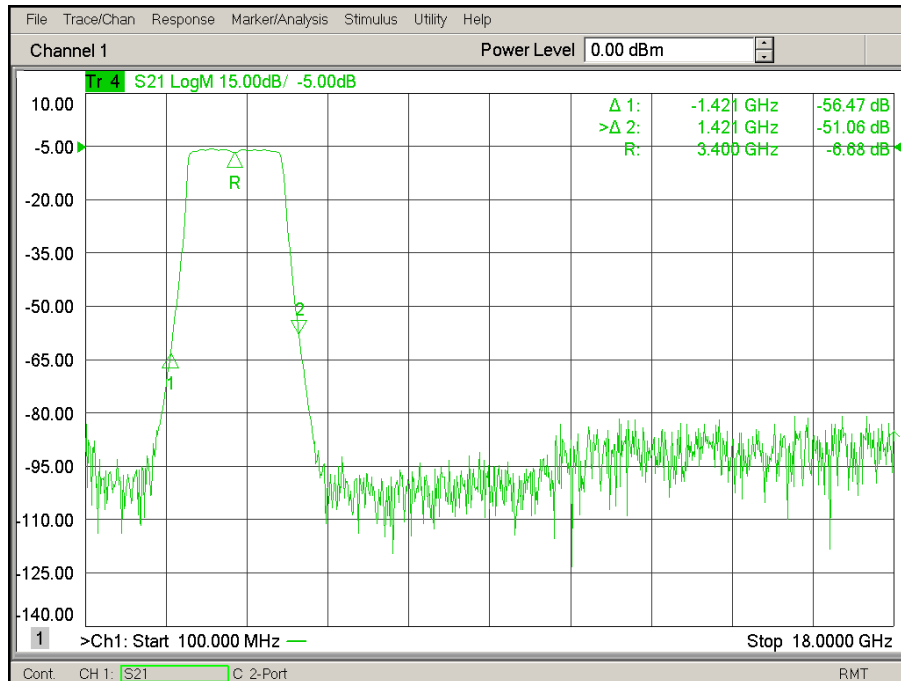


SUMMARY TEST DATA ON 6SFB-CC-100M18G-MAH-RX-TX

RX Ch1 Path Narrow Band (J2 RX BIT IN)



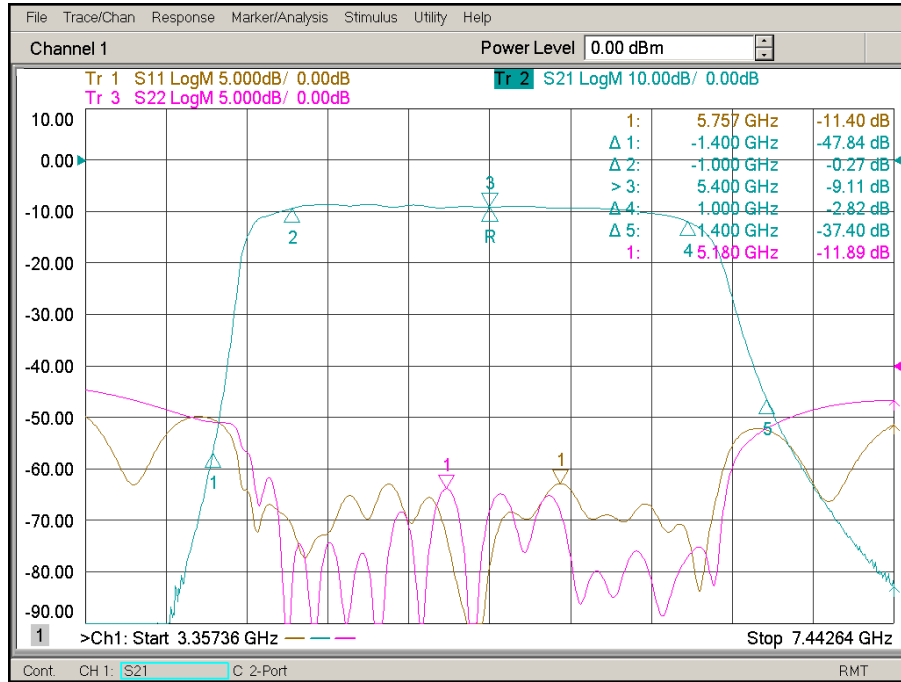
RX Ch1 Path Broadband (J2 RX BIT IN)



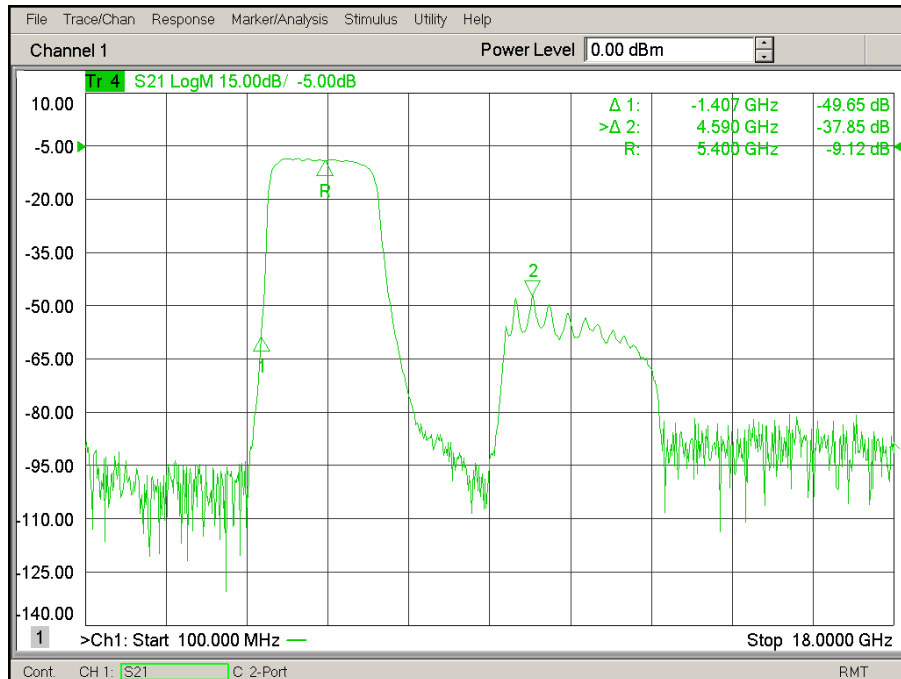


**SUMMARY TEST DATA
ON
6SFB-CC-100M18G-MAH-RX-TX**

RX Ch2 Path Narrow Band (J2 RX BIT IN)



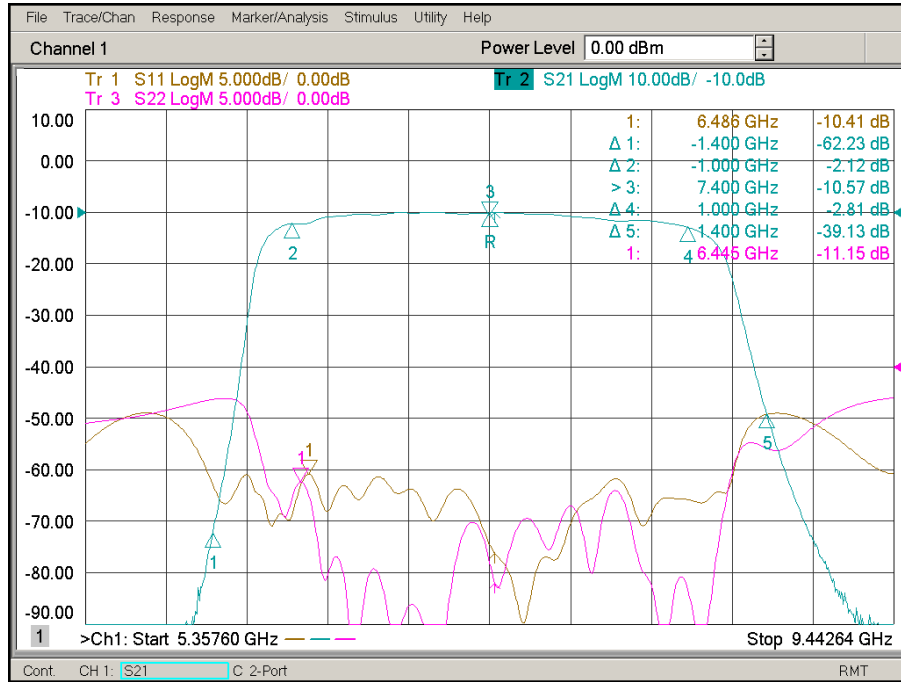
RX Ch2 Path Broadband (J2 RX BIT IN)



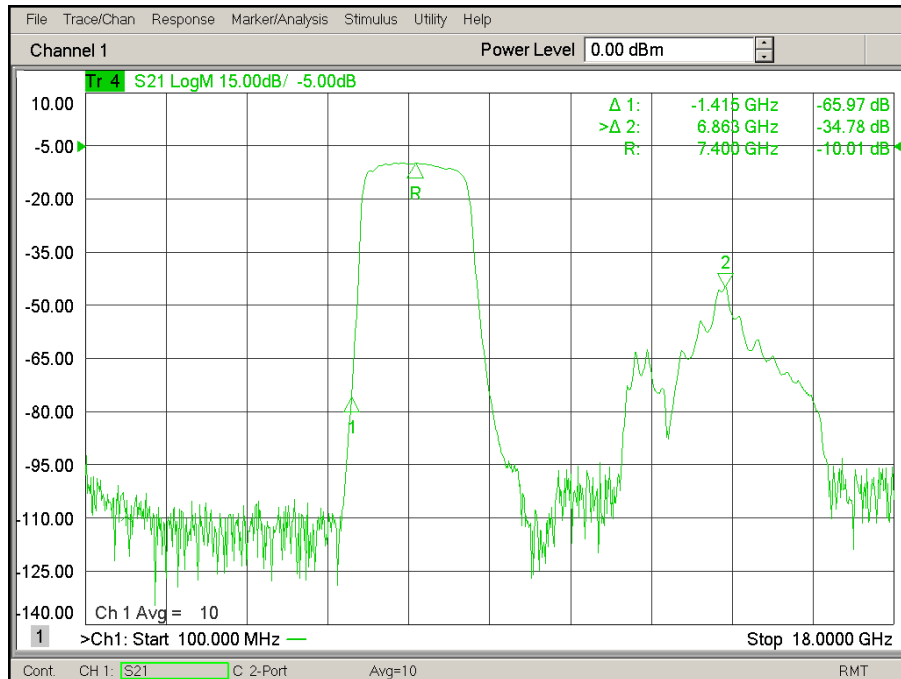


**SUMMARY TEST DATA
ON
6SFB-CC-100M18G-MAH-RX-TX**

RX Ch3 Path Narrow Band (J2 RX BIT IN)



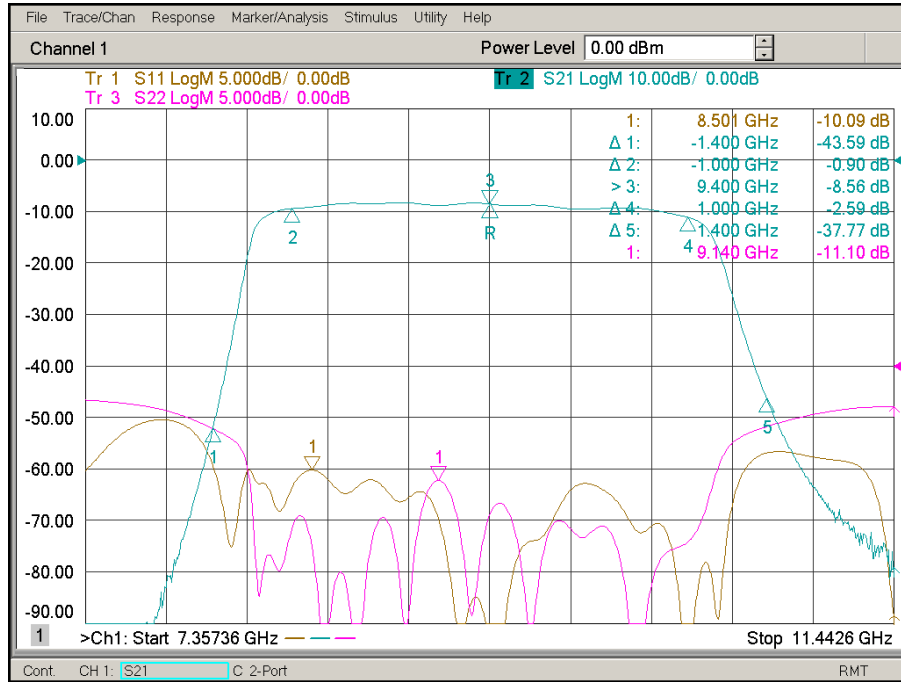
RX Ch3 Path Broadband (J2 RX BIT IN)



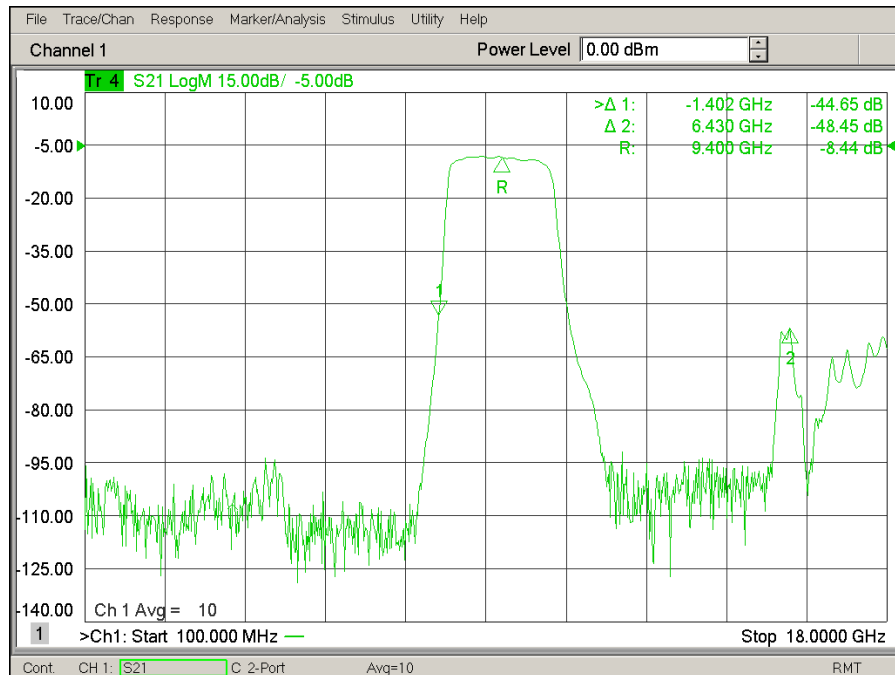


**SUMMARY TEST DATA
ON
6SFB-CC-100M18G-MAH-RX-TX**

RX Ch4 Path Narrow Band (J2 RX BIT IN)



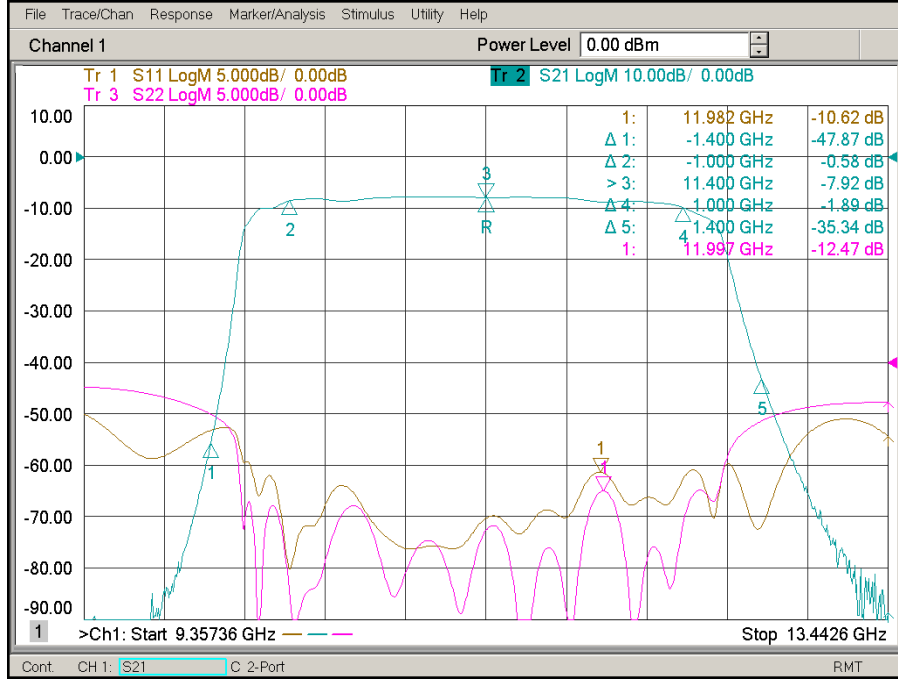
RX Ch4 Path Broadband (J2 RX BIT IN)



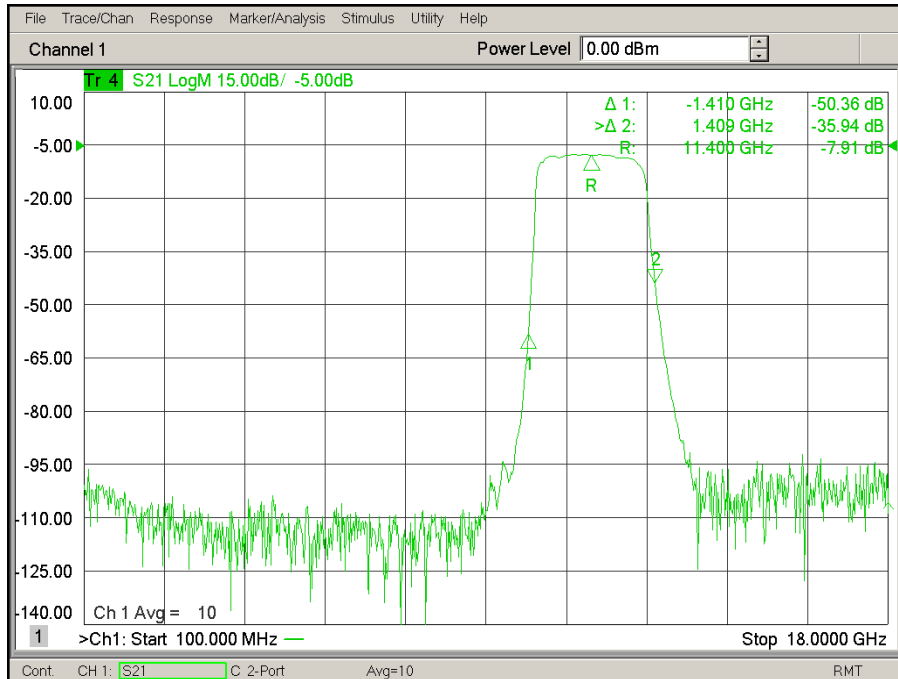


**SUMMARY TEST DATA
ON
6SFB-CC-100M18G-MAH-RX-TX**

RX Ch5 Path Narrow Band (J2 RX BIT IN)



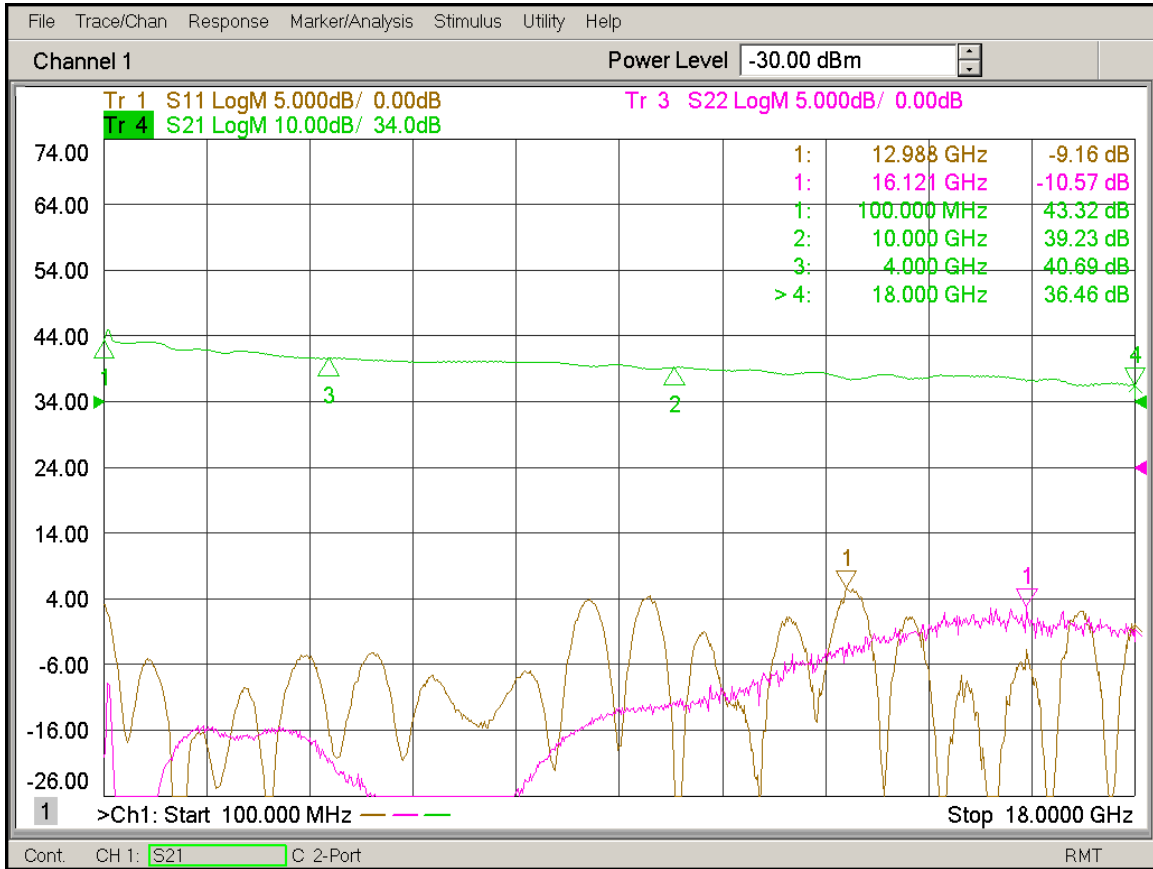
RX Ch5 Path Broadband (J2 RX BIT IN)





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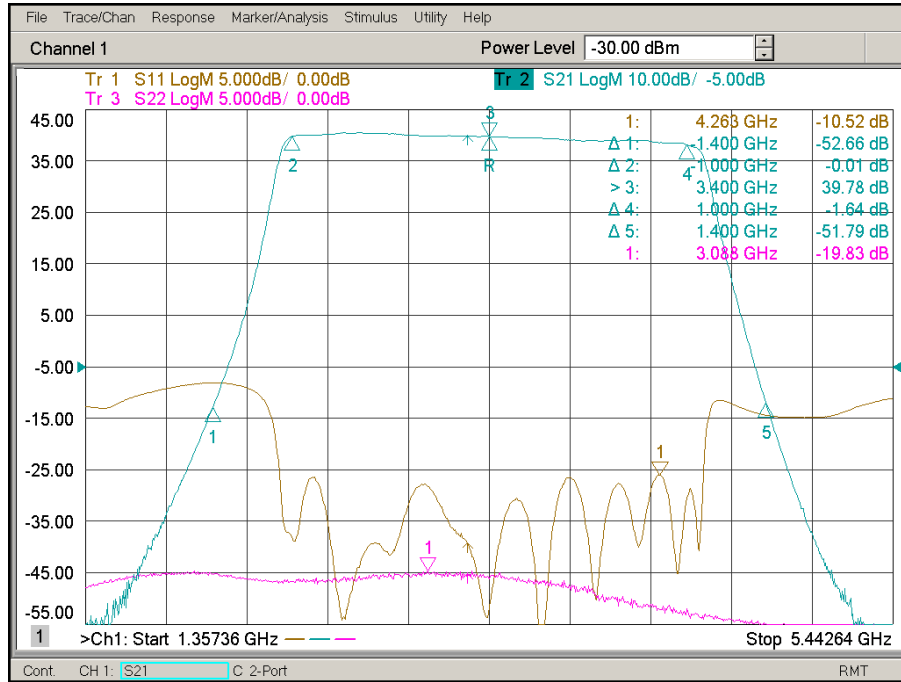
TX Thru Path



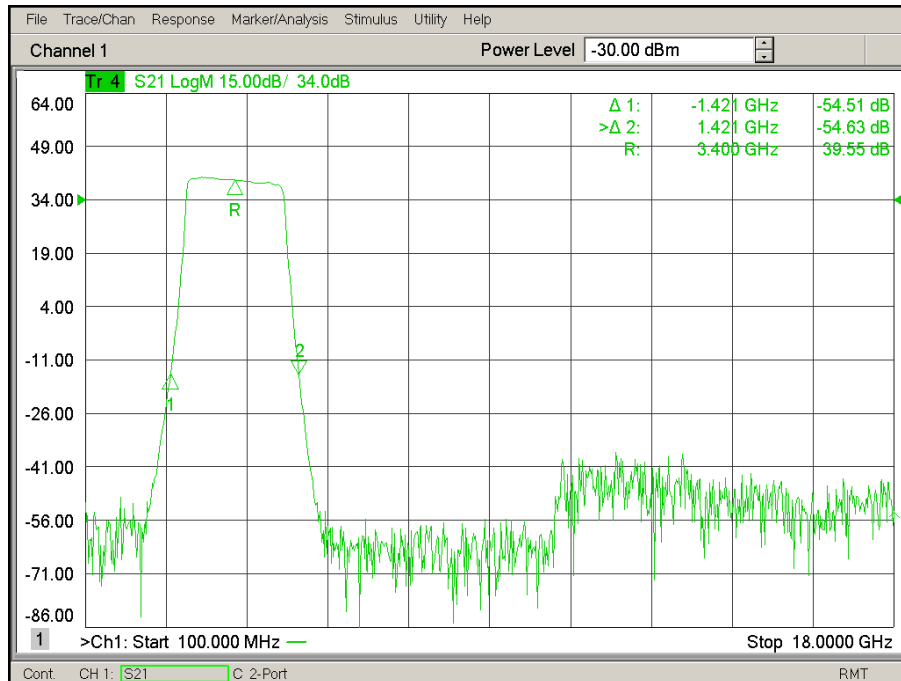


SUMMARY TEST DATA ON 6SFB-CC-100M18G-MAH-RX-TX

TX Ch1 Path Narrow Band



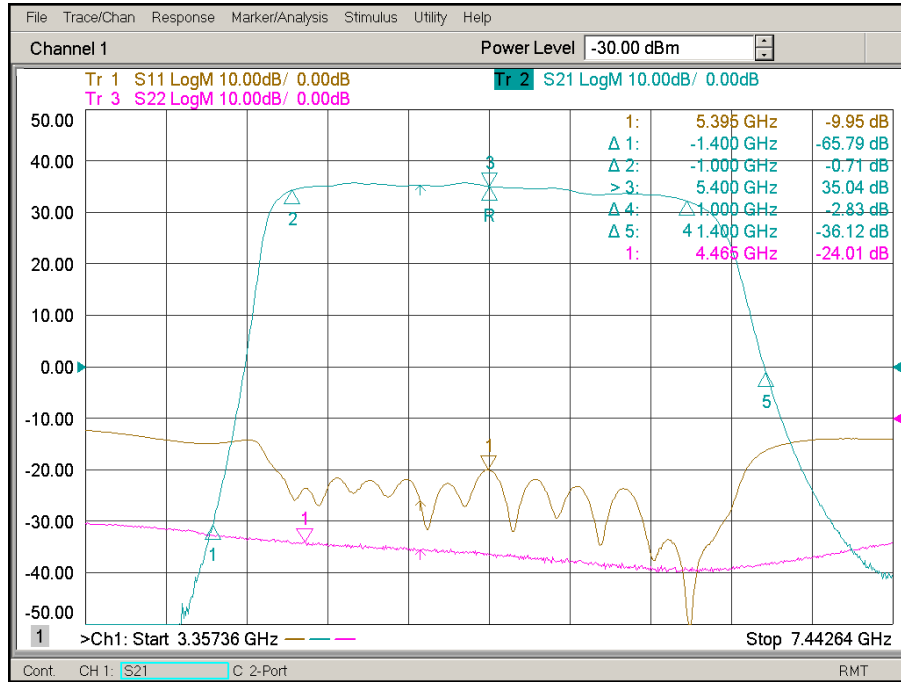
TX Ch1 Path Broadband



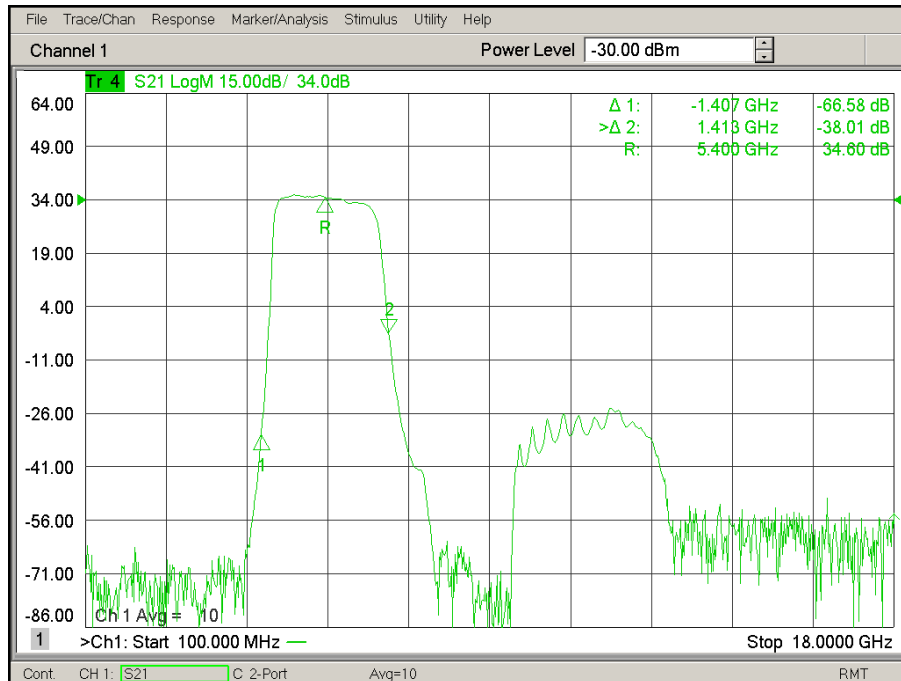


SUMMARY TEST DATA ON 6SFB-CC-100M18G-MAH-RX-TX

TX Ch2 Path Narrow Band



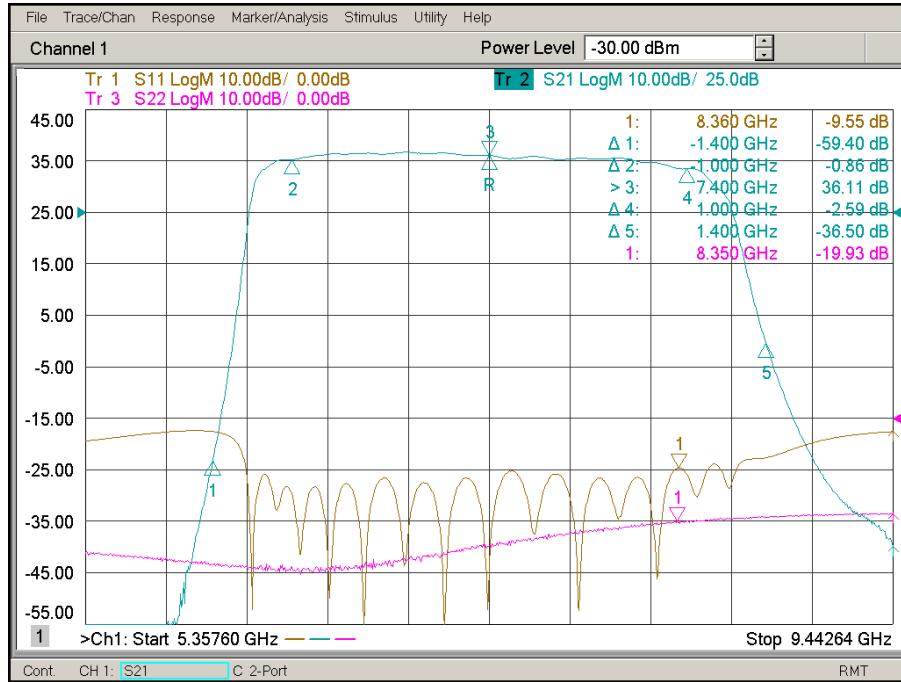
TX Ch2 Path Broadband



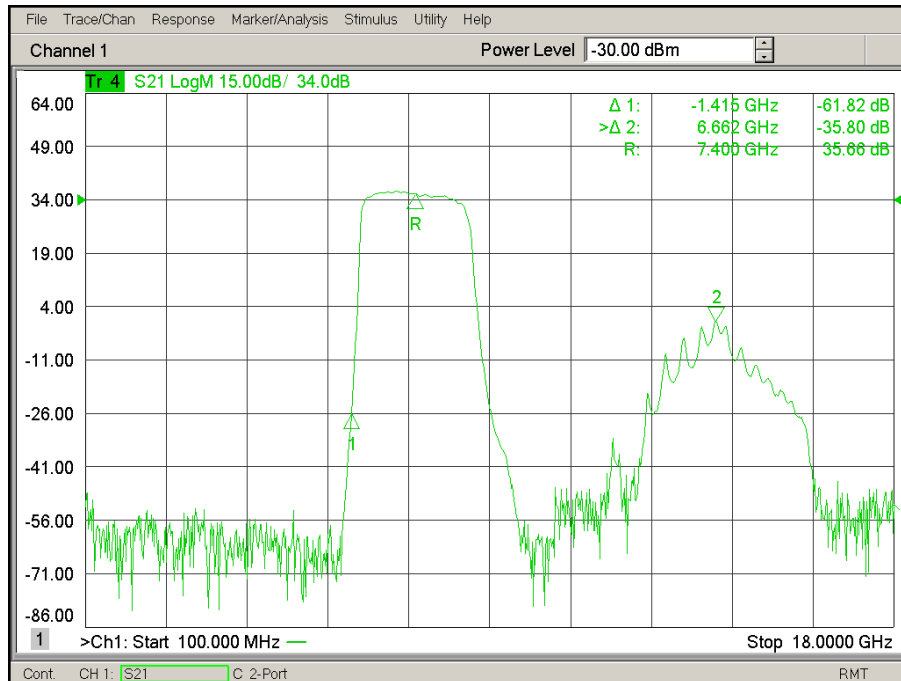


SUMMARY TEST DATA ON 6SFB-CC-100M18G-MAH-RX-TX

TX Ch3 Path Narrow Band



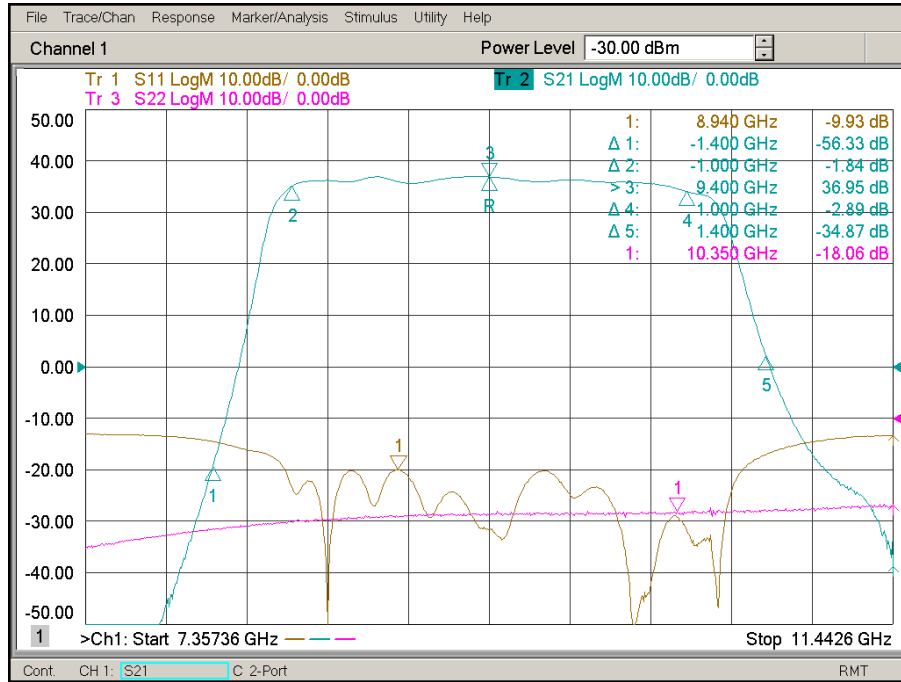
TX Ch3 Path Broadband



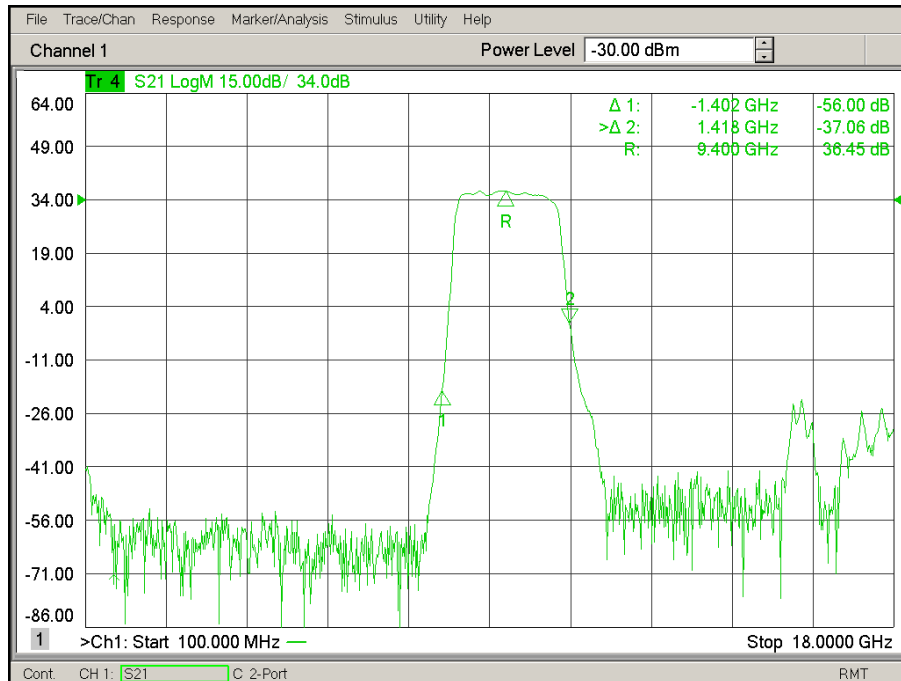


SUMMARY TEST DATA ON 6SFB-CC-100M18G-MAH-RX-TX

TX Ch4 Path Narrow Band



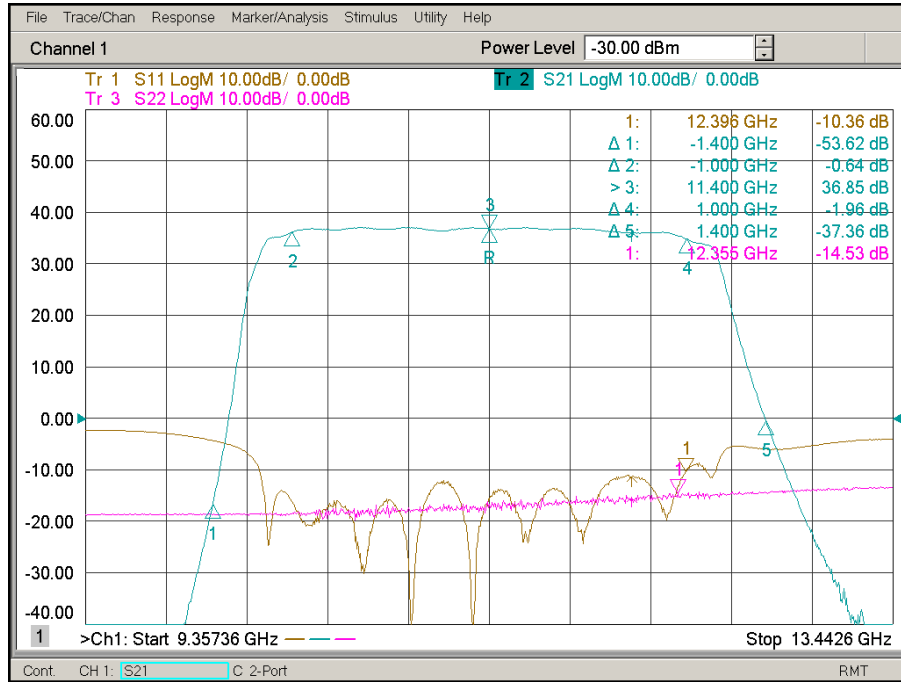
TX Ch4 Path Broadband



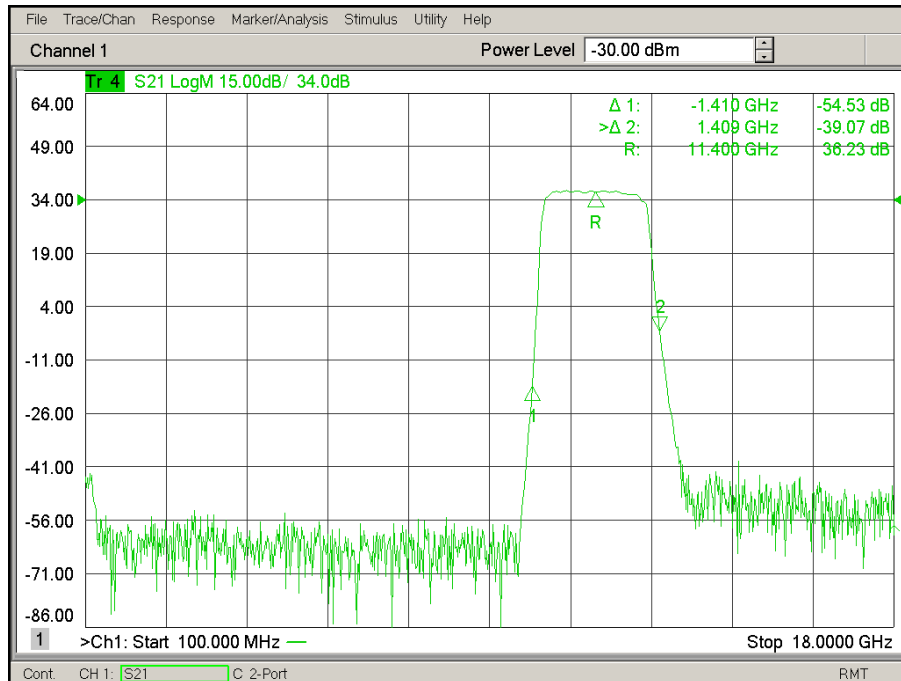


SUMMARY TEST DATA ON 6SFB-CC-100M18G-MAH-RX-TX

TX Ch5 Path Narrow Band



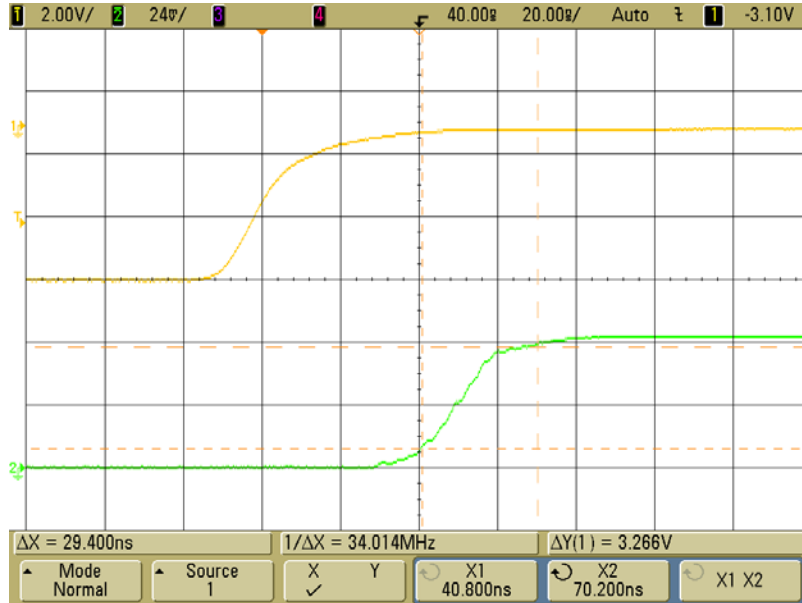
TX Ch5 Path Broadband





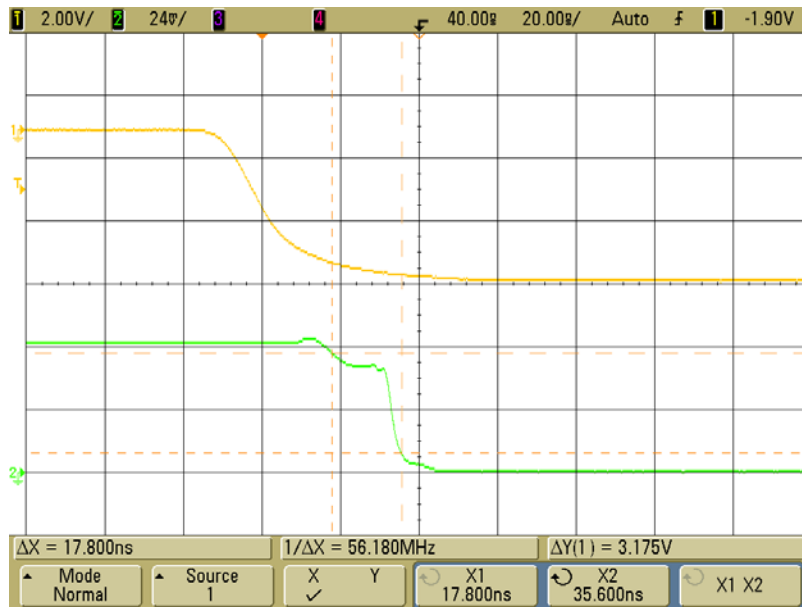
**SUMMARY TEST DATA
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6SFB-CC-100M18G-MAH-RX-TX**

Switching Speed RX Channel 1 ON



Yellow Trace TTL Input Signal
Green Trace RF Output of Detector

Switching Speed RX Channel 1 OFF

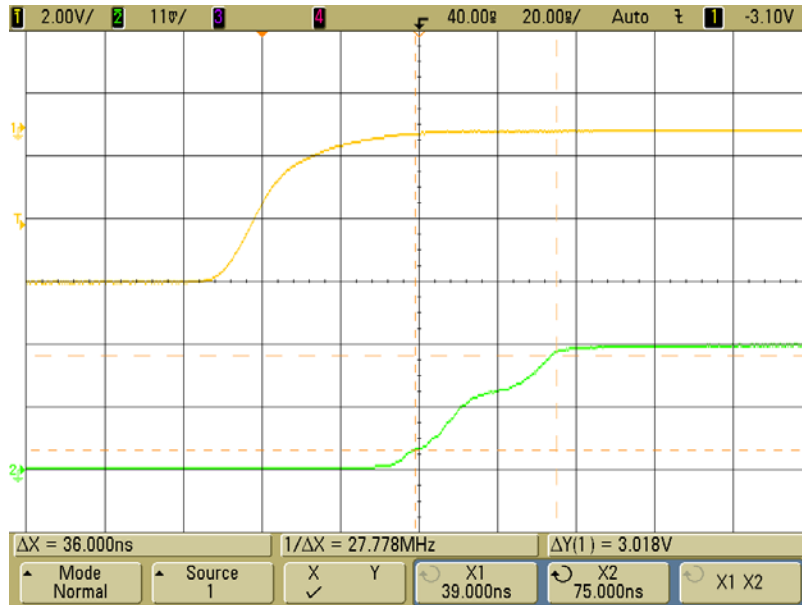


Yellow Trace TTL Input Signal
Green Trace RF Output of Detector



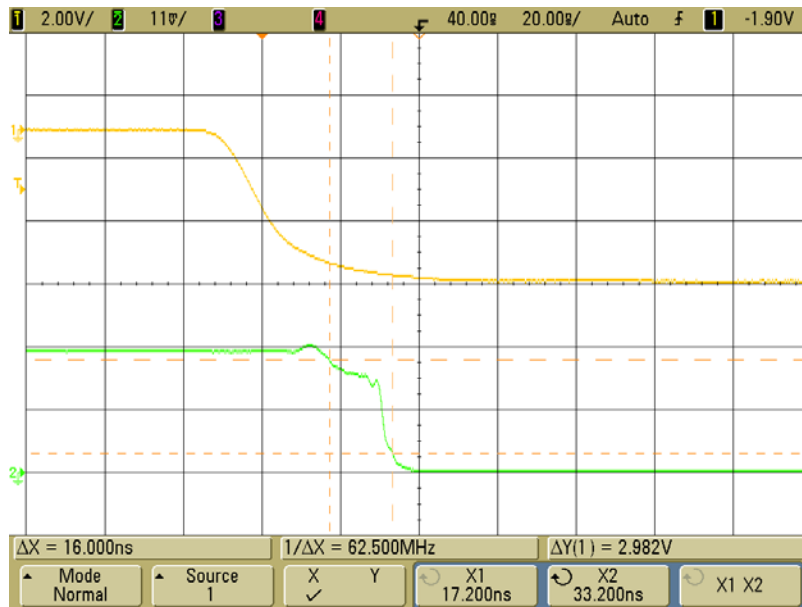
**SUMMARY TEST DATA
ON
6SFB-CC-100M18G-MAH-RX-TX**

Switching Speed RX Channel 2 ON



Yellow Trace TTL Input Signal
Green Trace RF Output of Detector

Switching Speed RX Channel 2 OFF

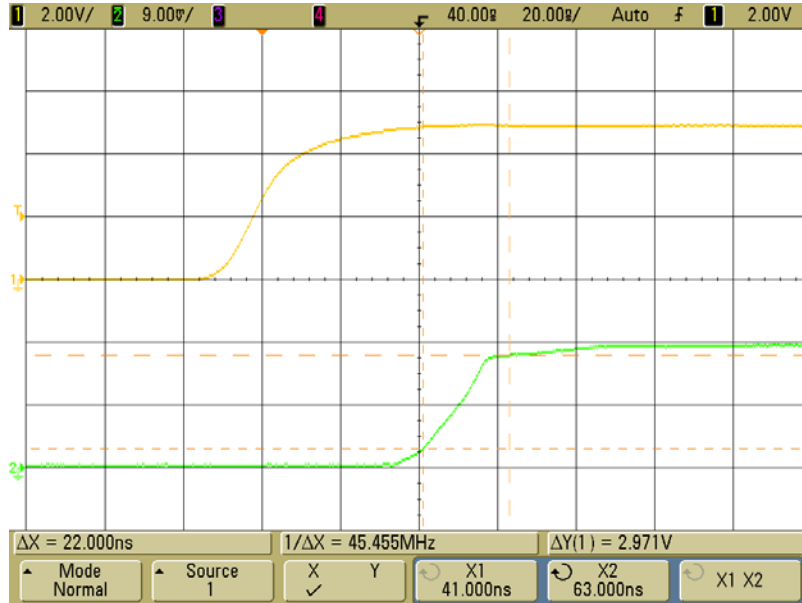


Yellow Trace TTL Input Signal
Green Trace RF Output of Detector



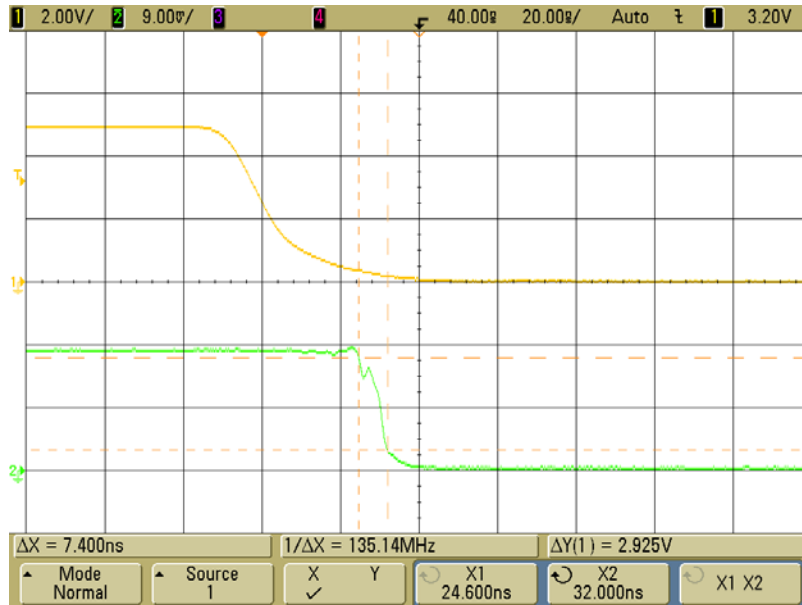
**SUMMARY TEST DATA
ON
6SFB-CC-100M18G-MAH-RX-TX**

Switching Speed RX Channel 3 ON



Yellow Trace TTL Input Signal
Green Trace RF Output of Detector

Switching Speed RX Channel 3 OFF

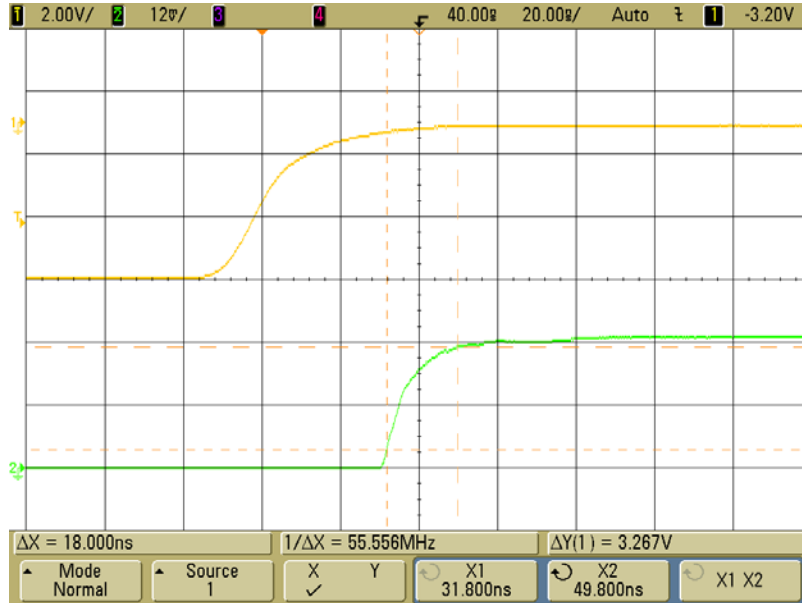


Yellow Trace TTL Input Signal
Green Trace RF Output of Detector



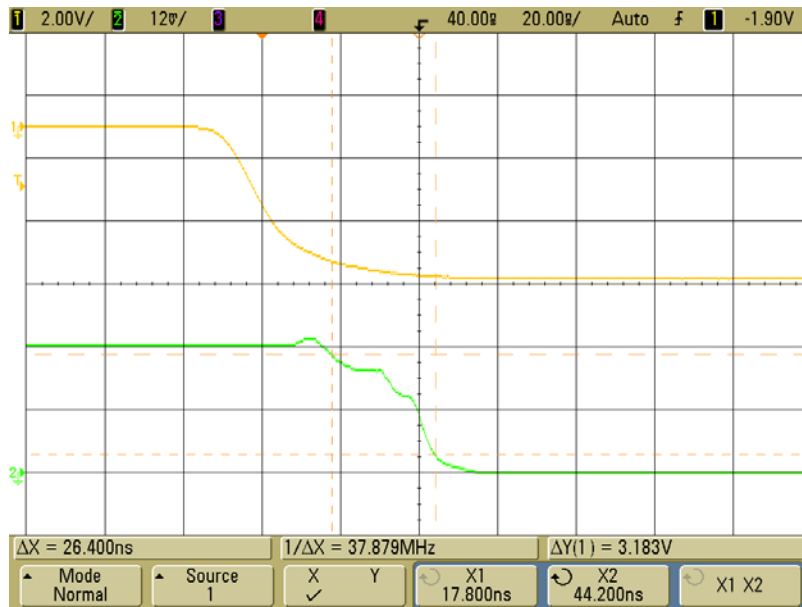
**SUMMARY TEST DATA
ON
6SFB-CC-100M18G-MAH-RX-TX**

Switching Speed RX Channel 4 ON



Yellow Trace TTL Input Signal
Green Trace RF Output of Detector

Switching Speed RX Channel 4 OFF

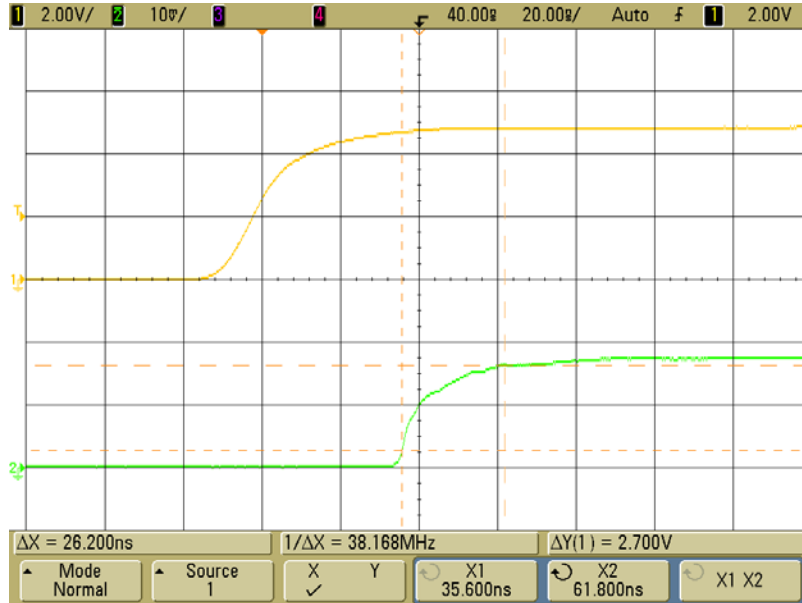


Yellow Trace TTL Input Signal
Green Trace RF Output of Detector



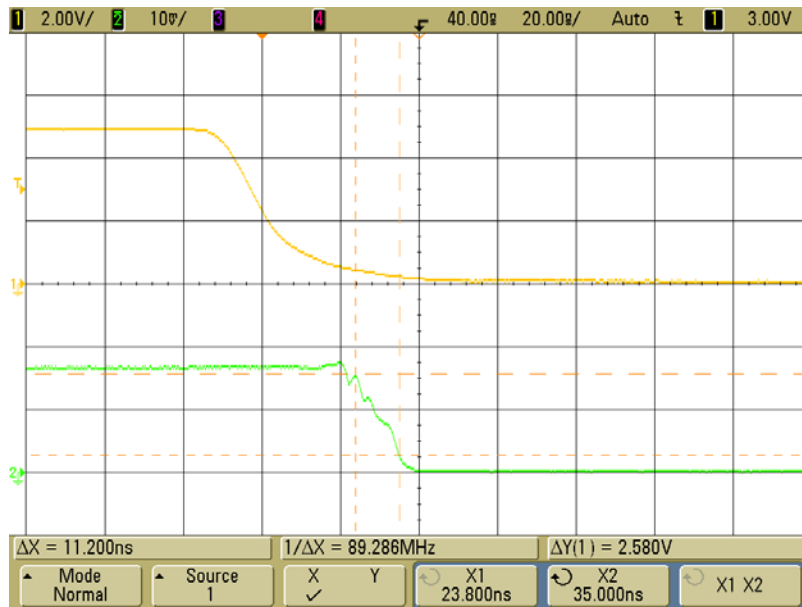
**SUMMARY TEST DATA
ON
6SFB-CC-100M18G-MAH-RX-TX**

Switching Speed RX Channel 5 ON



Yellow Trace TTL Input Signal
Green Trace RF Output of Detector

Switching Speed RX Channel 5 OFF

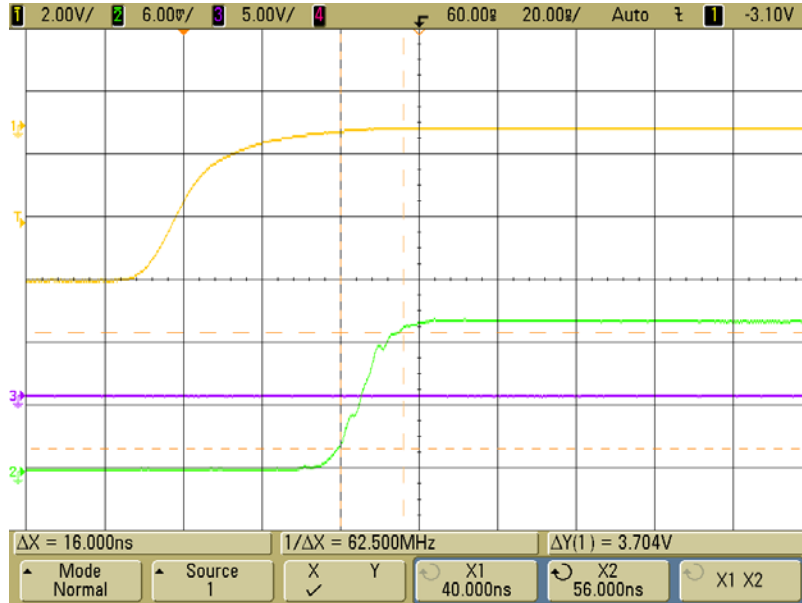


Yellow Trace TTL Input Signal
Green Trace RF Output of Detector



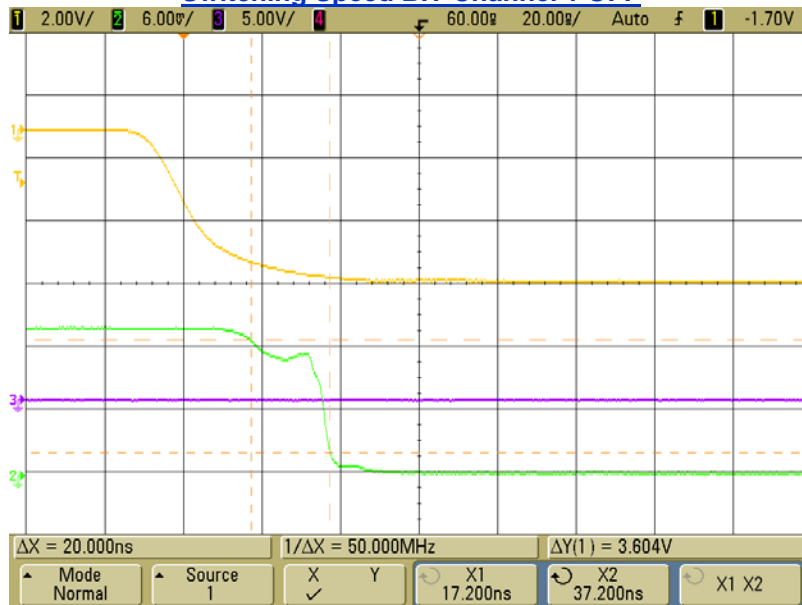
**SUMMARY TEST DATA
ON
6SFB-CC-100M18G-MAH-RX-TX**

Switching Speed BIT Channel 1 ON



Yellow Trace TTL Input Signal
Green Trace RF Output of Detector

Switching Speed BIT Channel 1 OFF

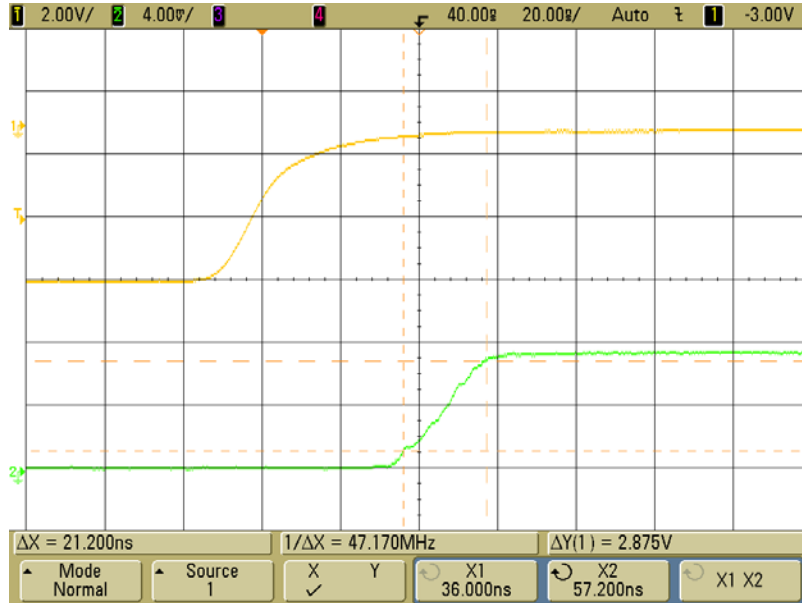


Yellow Trace TTL Input Signal
Green Trace RF Output of Detector



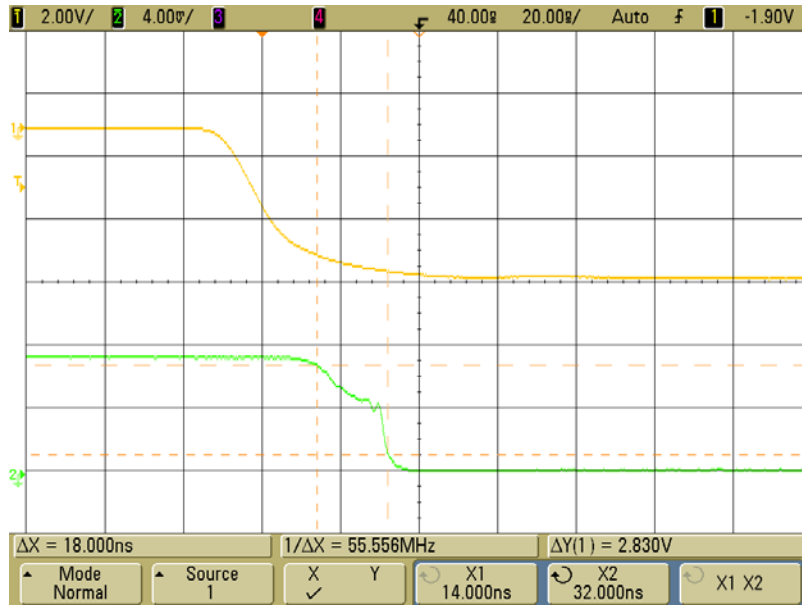
**SUMMARY TEST DATA
ON
6SFB-CC-100M18G-MAH-RX-TX**

Switching Speed BIT Channel 2 ON



Yellow Trace TTL Input Signal
Green Trace RF Output of Detector

Switching Speed BIT Channel 2 OFF

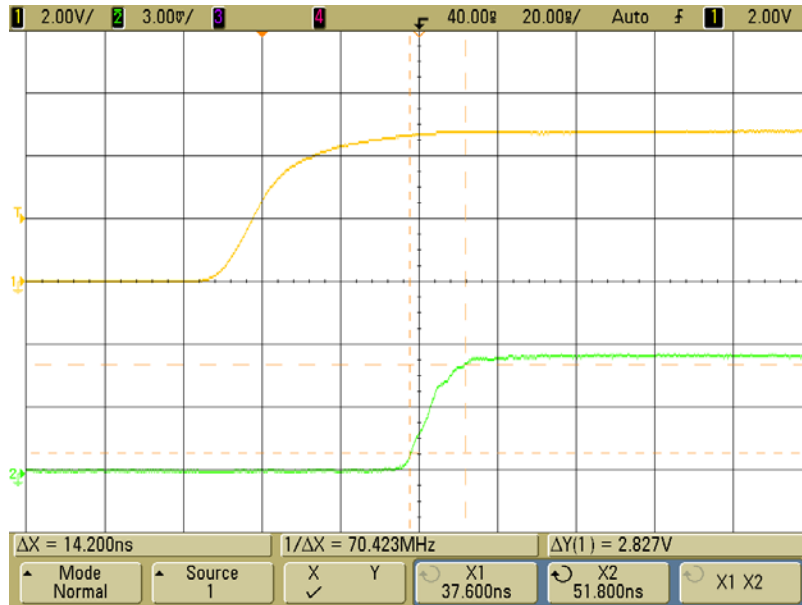


Yellow Trace TTL Input Signal
Green Trace RF Output of Detector



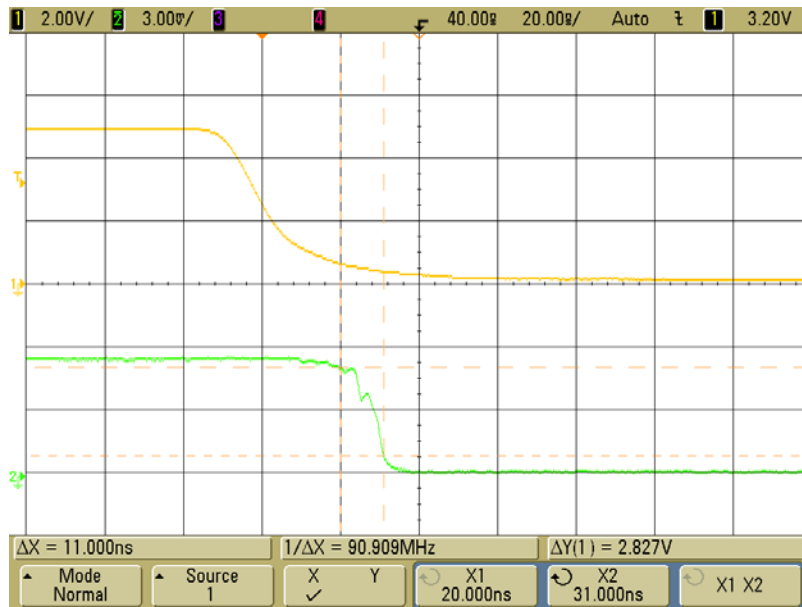
**SUMMARY TEST DATA
ON
6SFB-CC-100M18G-MAH-RX-TX**

Switching Speed BIT Channel 3 ON



Yellow Trace TTL Input Signal
Green Trace RF Output of Detector

Switching Speed BIT Channel 3 OFF

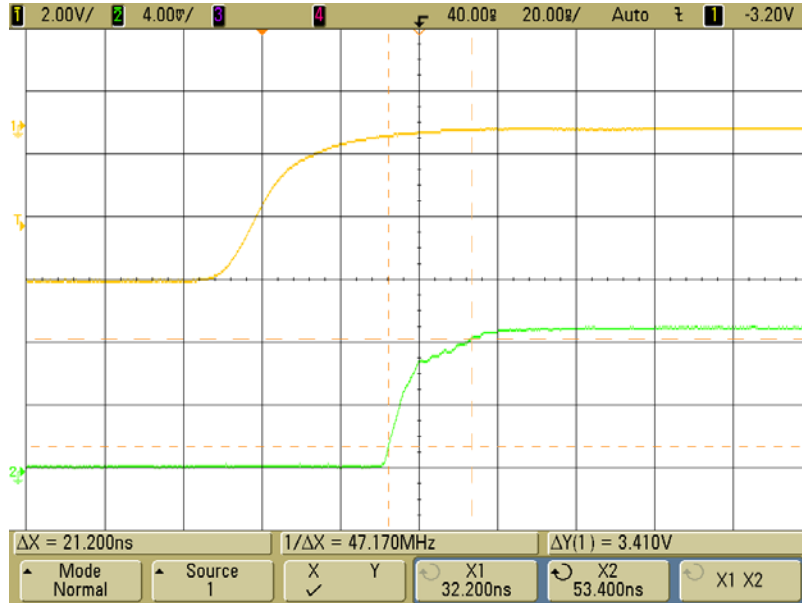


Yellow Trace TTL Input Signal
Green Trace RF Output of Detector



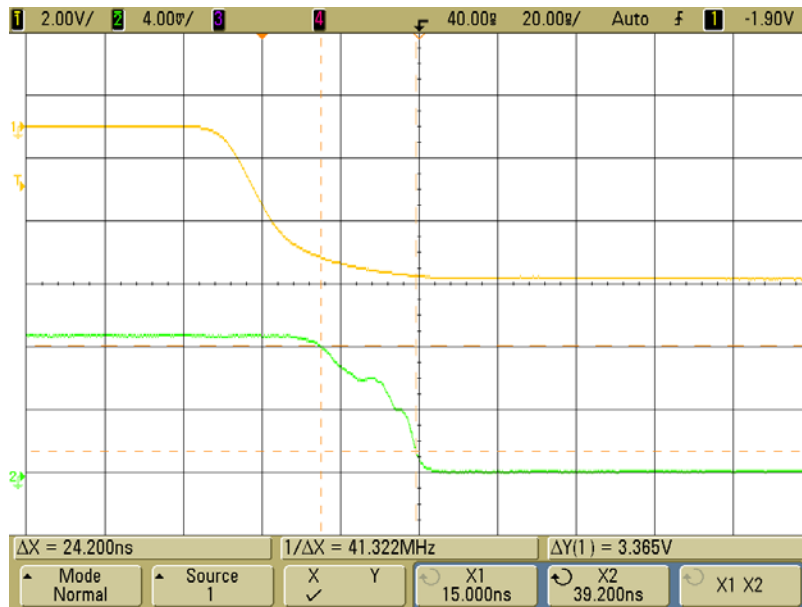
**SUMMARY TEST DATA
ON
6SFB-CC-100M18G-MAH-RX-TX**

Switching Speed BIT Channel 4 ON



Yellow Trace TTL Input Signal
Green Trace RF Output of Detector

Switching Speed BIT Channel 4 OFF

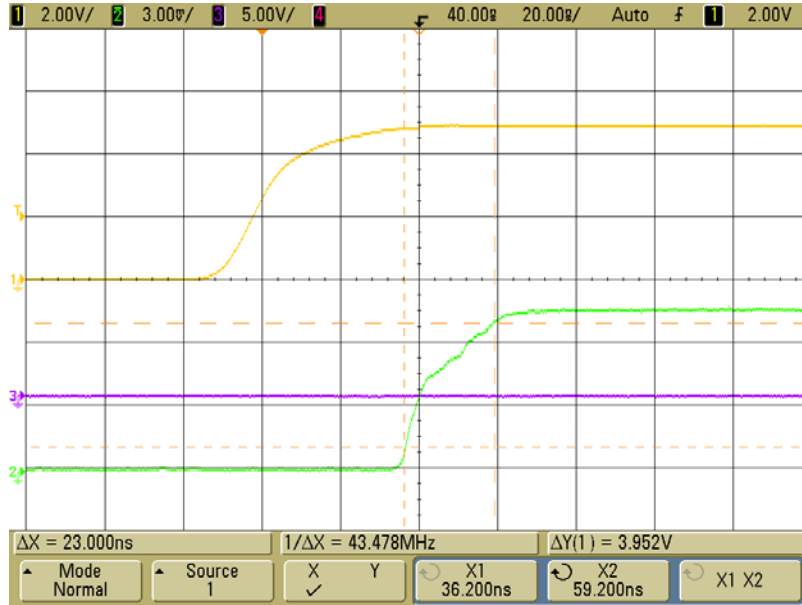


Yellow Trace TTL Input Signal
Green Trace RF Output of Detector



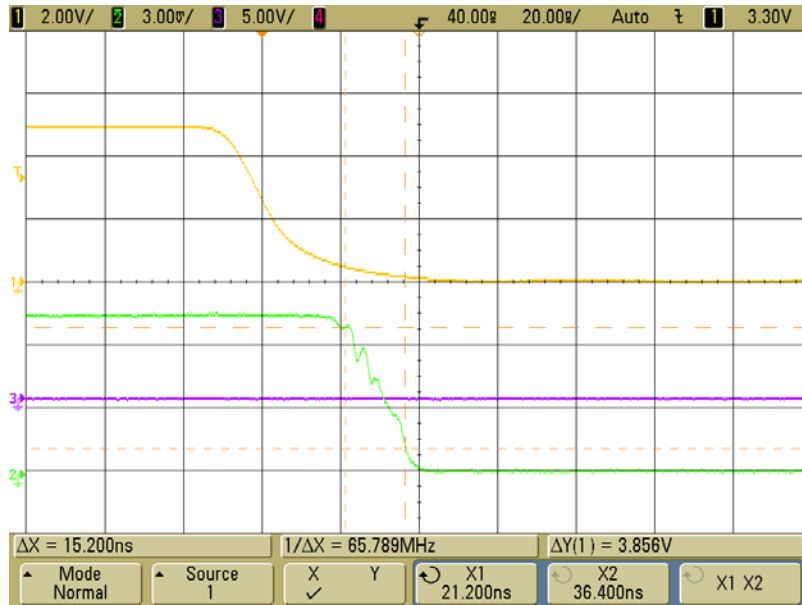
**SUMMARY TEST DATA
ON
6SFB-CC-100M18G-MAH-RX-TX**

Switching Speed BIT Channel 5 ON



Yellow Trace TTL Input Signal
Green Trace RF Output of Detector

Switching Speed BIT Channel 5 OFF

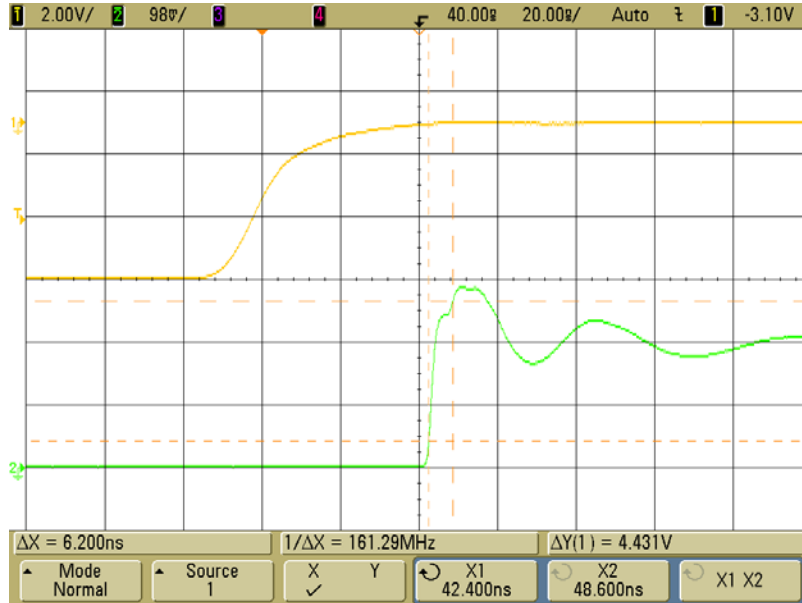


Yellow Trace TTL Input Signal
Green Trace RF Output of Detector



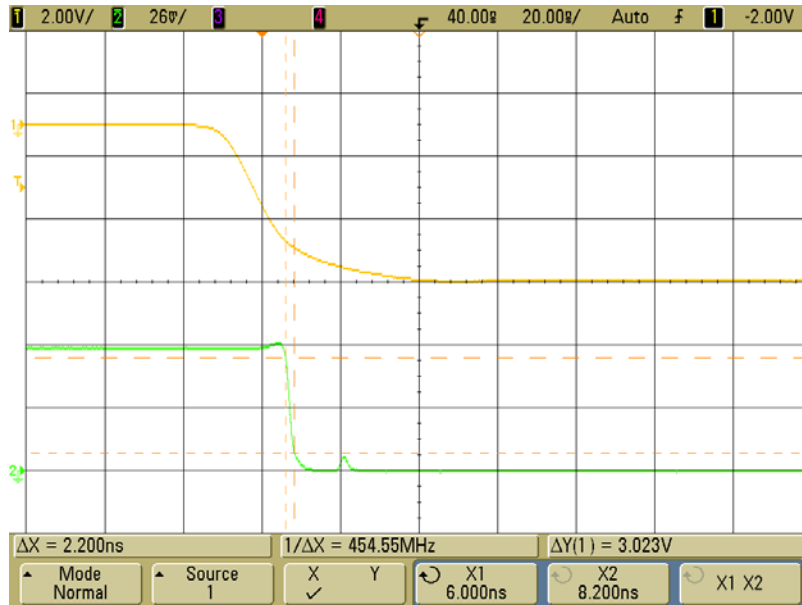
**SUMMARY TEST DATA
ON
6SFB-CC-100M18G-MAH-RX-TX**

Switching Speed TX Channel 1 ON



Yellow Trace TTL Input Signal
Green Trace RF Output of Detector

Switching Speed TX Channel 1 OFF

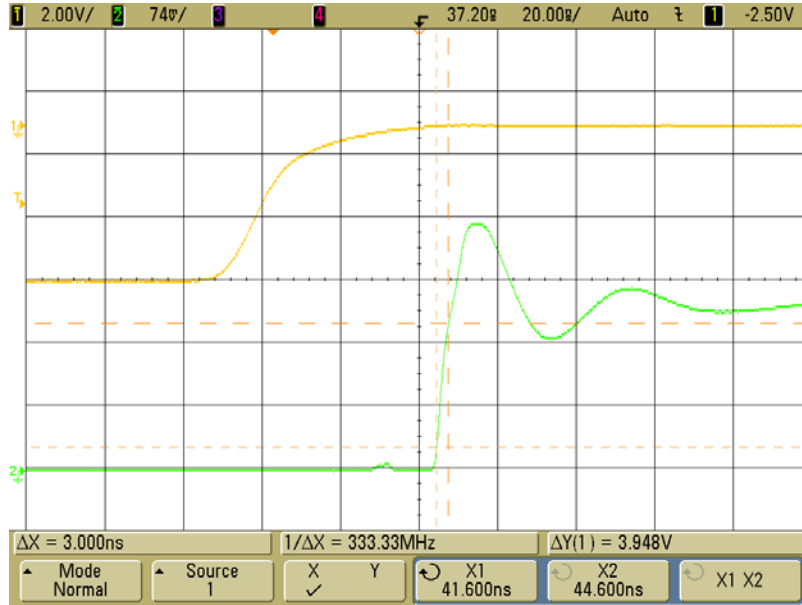


Yellow Trace TTL Input Signal
Green Trace RF Output of Detector



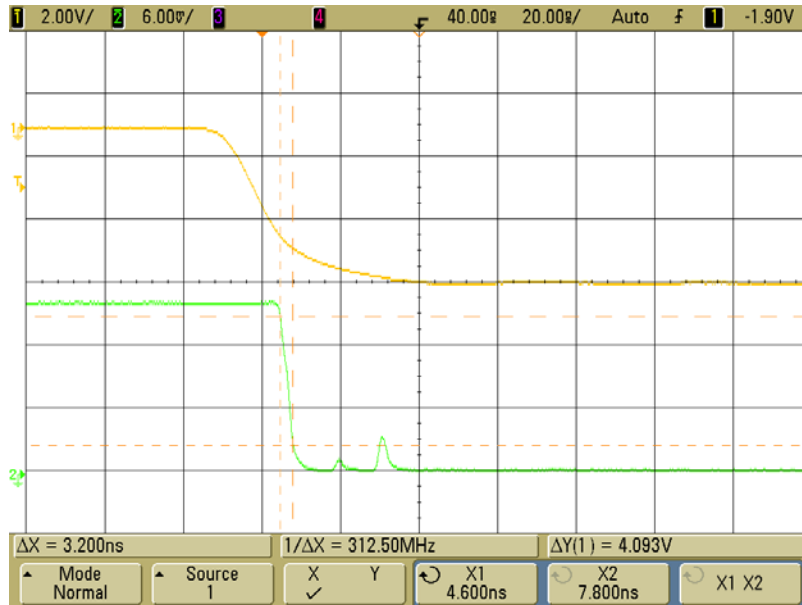
**SUMMARY TEST DATA
ON
6SFB-CC-100M18G-MAH-RX-TX**

Switching Speed TX Channel 2 ON



Yellow Trace TTL Input Signal
Green Trace RF Output of Detector

Switching Speed TX Channel 2 OFF

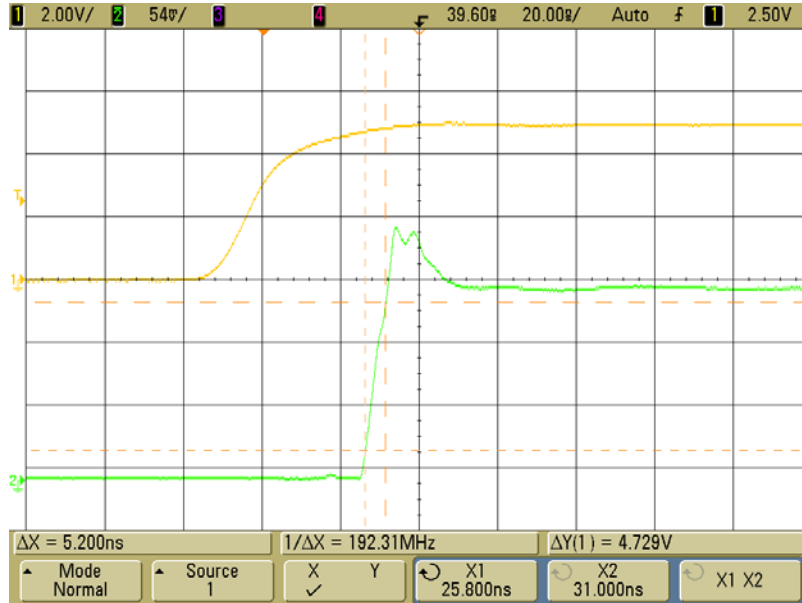


Yellow Trace TTL Input Signal
Green Trace RF Output of Detector



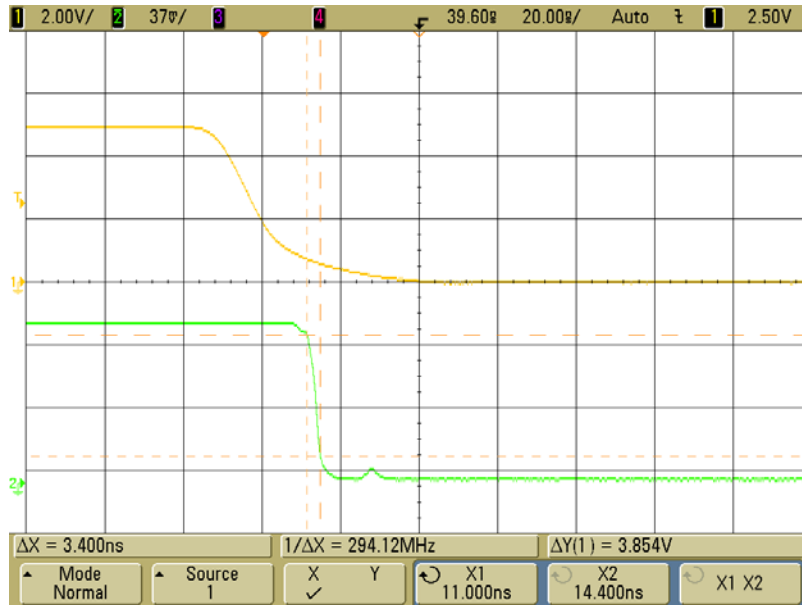
**SUMMARY TEST DATA
ON
6SFB-CC-100M18G-MAH-RX-TX**

Switching Speed TX Channel 3 ON



Yellow Trace TTL Input Signal
Green Trace RF Output of Detector

Switching Speed TX Channel 3 OFF

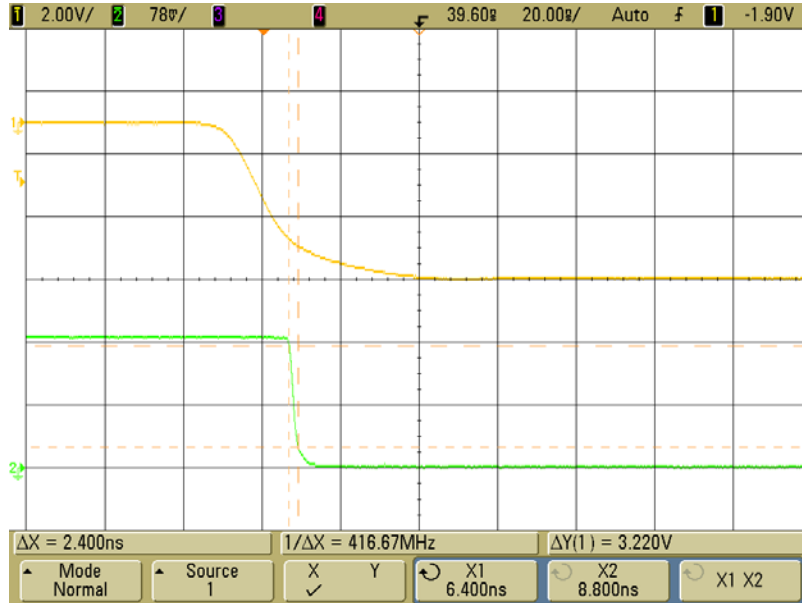


Yellow Trace TTL Input Signal
Green Trace RF Output of Detector



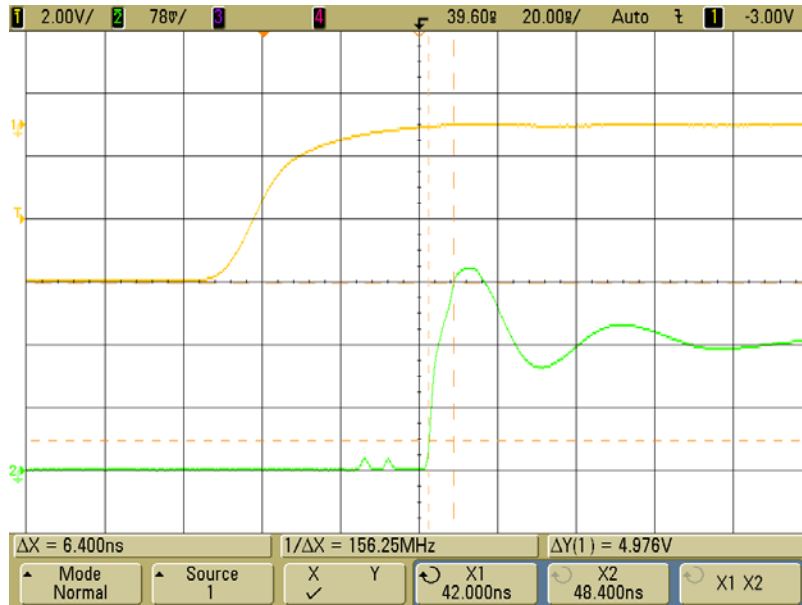
**SUMMARY TEST DATA
ON
6SFB-CC-100M18G-MAH-RX-TX**

Switching Speed TX Channel 4 ON



Yellow Trace TTL Input Signal
Green Trace RF Output of Detector

Switching Speed TX Channel 4 OFF

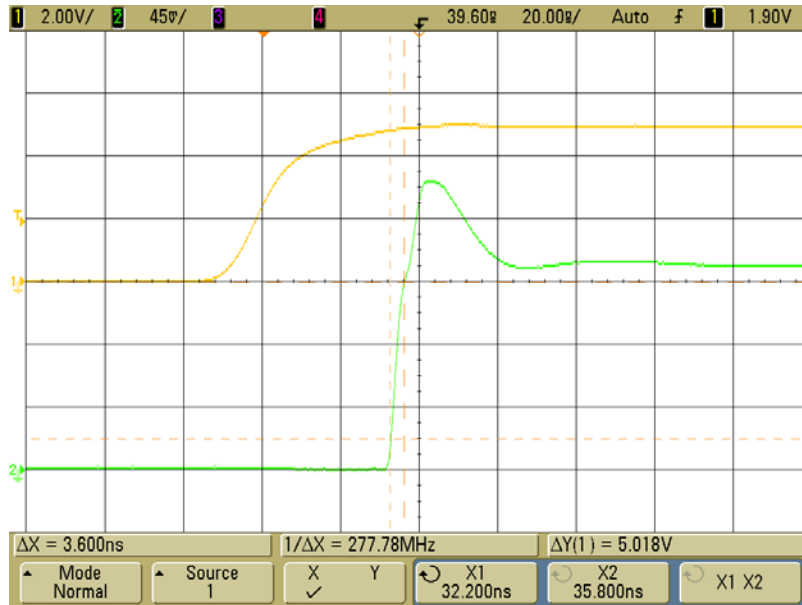


Yellow Trace TTL Input Signal
Green Trace RF Output of Detector



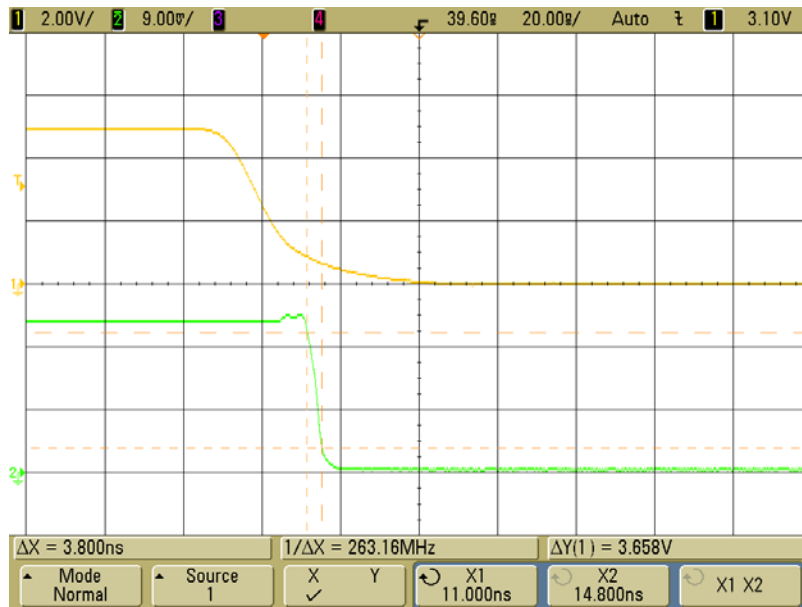
**SUMMARY TEST DATA
ON
6SFB-CC-100M18G-MAH-RX-TX**

Switching Speed TX Channel 5 ON



Yellow Trace TTL Input Signal
Green Trace RF Output of Detector

Switching Speed TX Channel 5 OFF



Yellow Trace TTL Input Signal
Green Trace RF Output of Detector



**SUMMARY TEST DATA
ON
6SFB-CC-100M18G-MAH-RX-TX**

Isolation BIT Port (J7) to RX Port (J1)

