



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

Customer: _____	Tested By: S. PALACIO
SO No: _____	Temperature: +25°C
Model No: 6SFB-HF-CC-100M18G-MAH-RX-TX	Date: 9/29/2017
Serial No: PL21681/1739	Drawing No: 27629580 Rev: A1

TEST ITEM NO:	PARAMETERS	SPECIFIED VALUE	MEASURED VALUE	REMARKS QA/QC
1	J1 Input Frequency (RX Input)	100MHz-18.0GHz	100MHz-18.0GHz MIN.	
2	J1 Input Power Level	-62dBm to +8dBm Typical	-62dBm to +8dBm MIN.	
3	J5 Input Frequency (TX Input)	100MHz-18.0GHz	100MHz-18.0GHz MIN.	
4	J5 Input Power Level	-15dBm to -20dBm Typical	-15dBm to -20dBm MIN.	
5	J2 Output Frequency (RX Output)	100MHz-18.0GHz	100MHz-18.0GHz MIN.	
6	J2 Output Power Level	-62dBm to +8dBm Typical	-62dBm to +8dBm MIN.	
7	J6 Output Frequency (TX Output)	100MHz-18.0GHz	100MHz-18.0GHz MIN.	
8	J6 Output Power Level	-15dBm to -20dBm Typical	-15dBm to -20dBm MIN.	
9	J1 RX Path Gain	0dB Typical	+9.5dB to +6.5dB see plots	
10	J5 TX Path Gain	0dB Typical	+9.65dB to +6.25dB see plots	
11	VSWR Over 90% Passband	2 : 1 Maximum	2.79:1 MAX.	To be improved at final Integration
12	Switching Speed	100ns Typical	100 ns TYP. see plots	
13	RX Thru Channel Passband	100MHz-18.0GHz	100MHz-18.0GHz MIN.	
14	RX Channel 1 Cutoff Frequency	2400MHz	2400MHz see plots	
15	RX Channel 1 3dB Bandwidth	100MHz-2400MHz	100MHz-2400MHz MIN.	
16	RX Channel 1 Rejection	-40dBc Typical, -30dBc Minimum 2.8GHz-18GHz	-49.06dBc	



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17	RX Channel 2 Center Frequency	13400MHz	13400MHz	
18	RX Channel 2 3dB Bandwidth	2000MHz	2000MHz MIN.	
19	RX Channel 2 Rejection	-40dBc Typical, -30dBc Minimum 100MHz-12GHz,	-59.83dBc	
		-40dBc Typical, -30dBc Minimum 14.8GHz-18GHz	-35.74dBc	
20	RX Channel 3 Center Frequency	15400MHz	15400MHz	
21	RX Channel 3 3dB Bandwidth	2000MHz	2000MHz MIN.	
22	RX Channel 3 Rejection	-40dBc Typical, -30dBc Minimum 100MHz-14GHz,	-45.17dBc	
		-40dBc Typical, -30dBc Minimum 16.8GHz-18GHz	-34.96dBc	
23	RX Channel 4 Center Frequency	17200MHz	17200MHz	
24	RX Channel 4 3dB Bandwidth	1600MHz	1600MHz MIN.	
25	RX Channel 4 Rejection	-40dBc Typical, -30dBc Minimum 100MHz-16GHz,	-46.2dBc	
		-40dBc Typical, -30dBc Minimum 18.4GHz-20GHz	-40.94dBc	
26	TX Thru Channel Passband	100MHz-18.0GHz	100MHz-18.0GHz MIN.	
27	TX Channel 1 Cutoff Frequency	2400MHz	2400MHz	
28	TX Channel 1 3dB Bandwidth	100MHz-2400MHz	100MHz-2400MHz MIN.	
29	TX Channel 1 Rejection	-40dBc Typical, -30dBc Minimum 2.8GHz-18GHz	-49.02dBc	
30	TX Channel 2 Center Frequency	13400MHz	13400MHz	



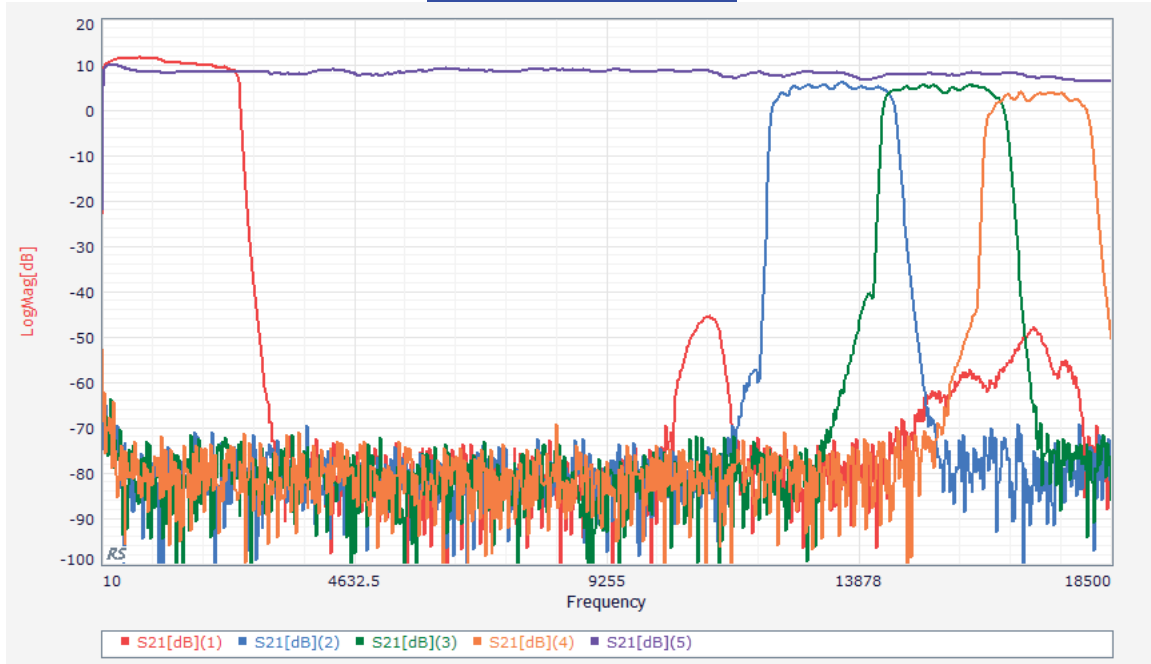
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30	TX Channel 2 3dB Bandwidth	2000MHz	2000MHz MIN.	
32	TX Channel 2 Rejection	-40dBc Typical, -30dBc Minimum 100MHz-12GHz,	-67.59dBc	
		-40dBc Typical, -30dBc Minimum 14.8GHz-18GHz	-41.1dBc	
33	TX Channel 3 Center Frequency	15400MHz	15400MHz	
34	TX Channel 3 3dB Bandwidth	2000MHz	2000MHz MIN.	
35	TX Channel 3 Rejection	-40dBc Typical, -30dBc Minimum 100MHz-14GHz,	-44.19dBc	
		-40dBc Typical, -30dBc Minimum 16.8GHz-18GHz	-46.45dBc	
36	TX Channel 4 Center Frequency	17200MHz	17200MHz	
37	TX Channel 4 3dB Bandwidth	1600MHz	1600MHz MIN.	
38	TX Channel 4 Rejection	-40dBc Typical, -30dBc Minimum 100MHz-16GHz,	-41.3dBc	
		-40dBc Typical, -30dBc Minimum 18.4GHz-20GHz	-34.38dBc	
39	Control Logic	TTL '0': 0V to 0.8V TTL '1': 2V to 5V	TTL '0': 0V to 0.8V TTL '1': 2V to 5V	
40	Power Supplies	+12V @ 300mA Max (200 mA typ.) +5V @ 150mA Max (85 mA typ.) -12V @ 200mA Max (120 mA typ.)	+12V@167mA +5V@62mA -12V@84mA	

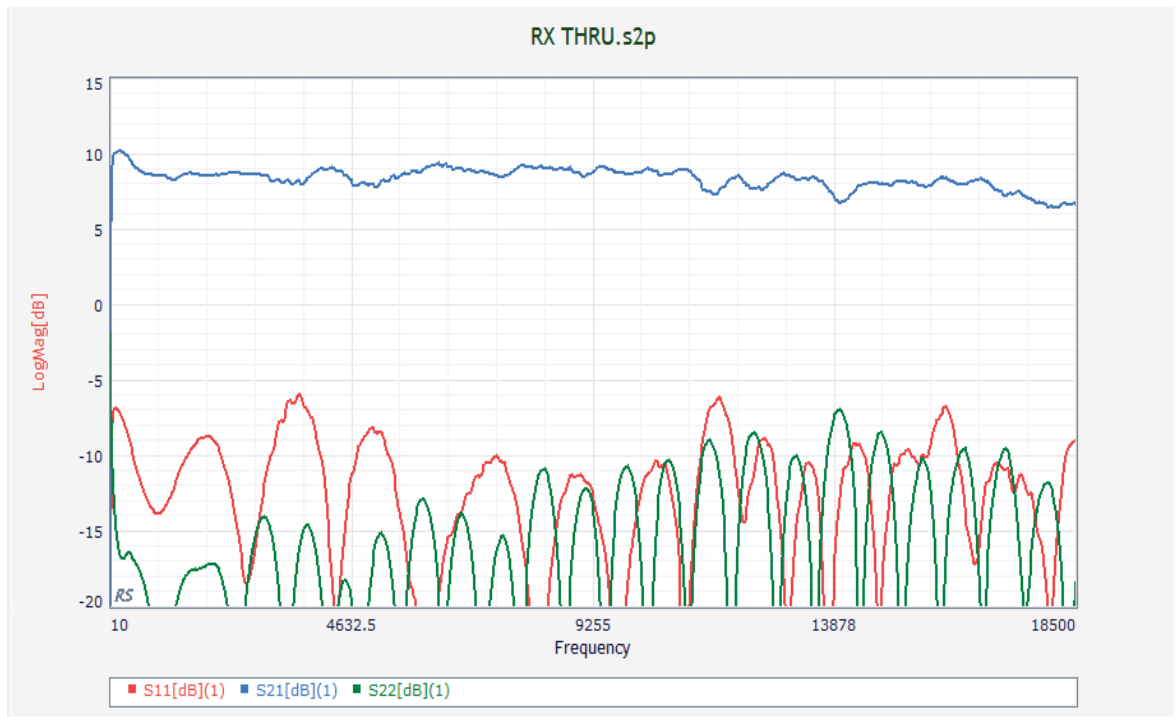


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ALL RX Paths (J1 RX IN)



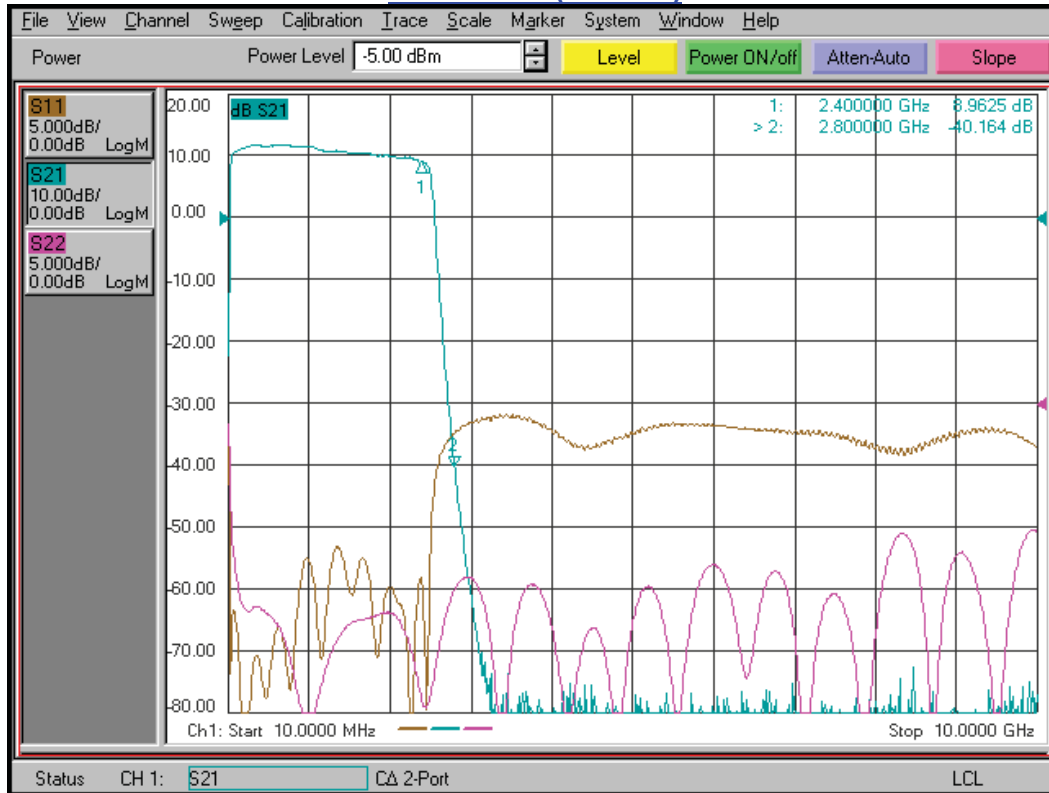
RX Thru Path (J1 RX IN)



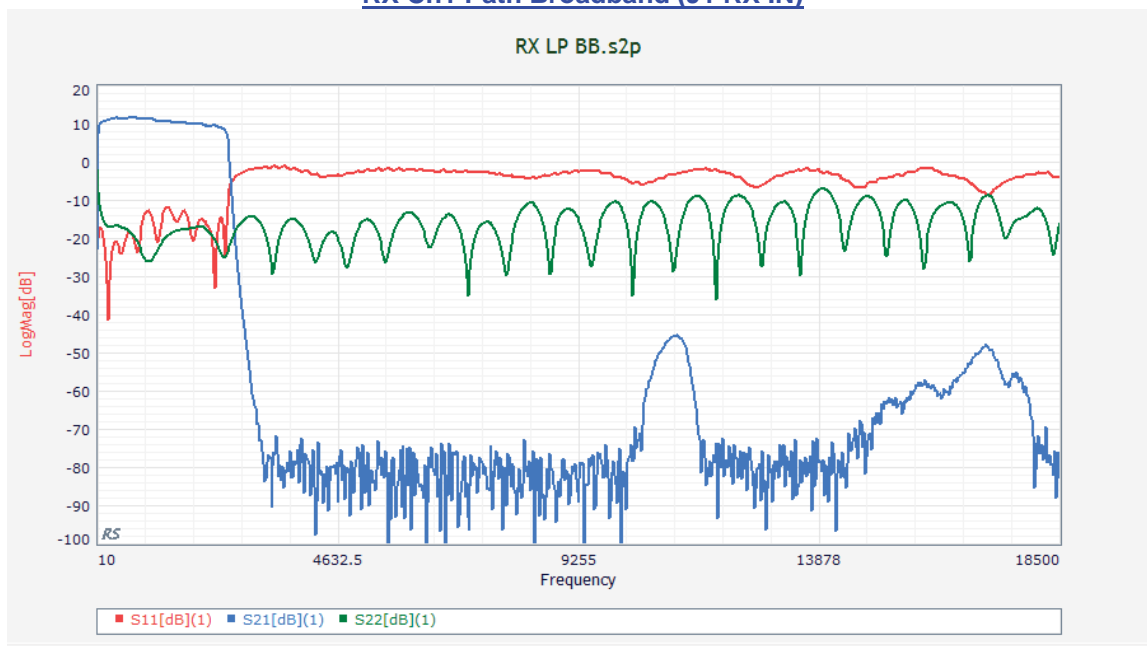


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RX Ch1 Path (J1 RX IN)



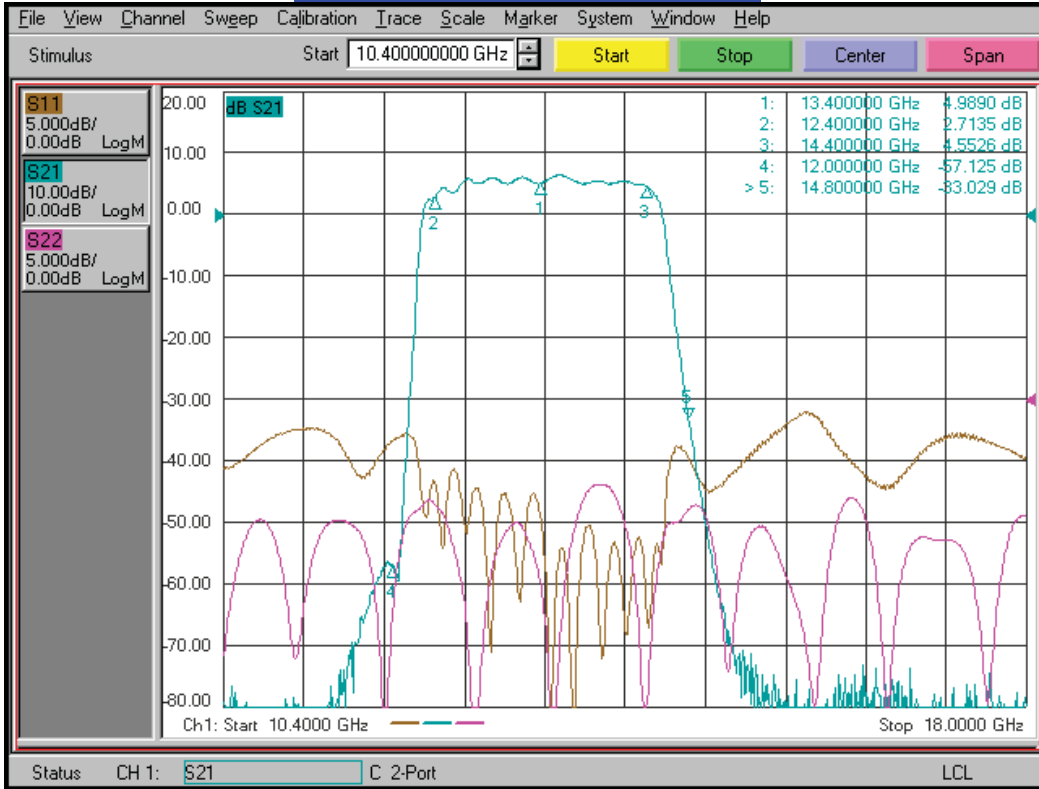
RX Ch1 Path Broadband (J1 RX IN)



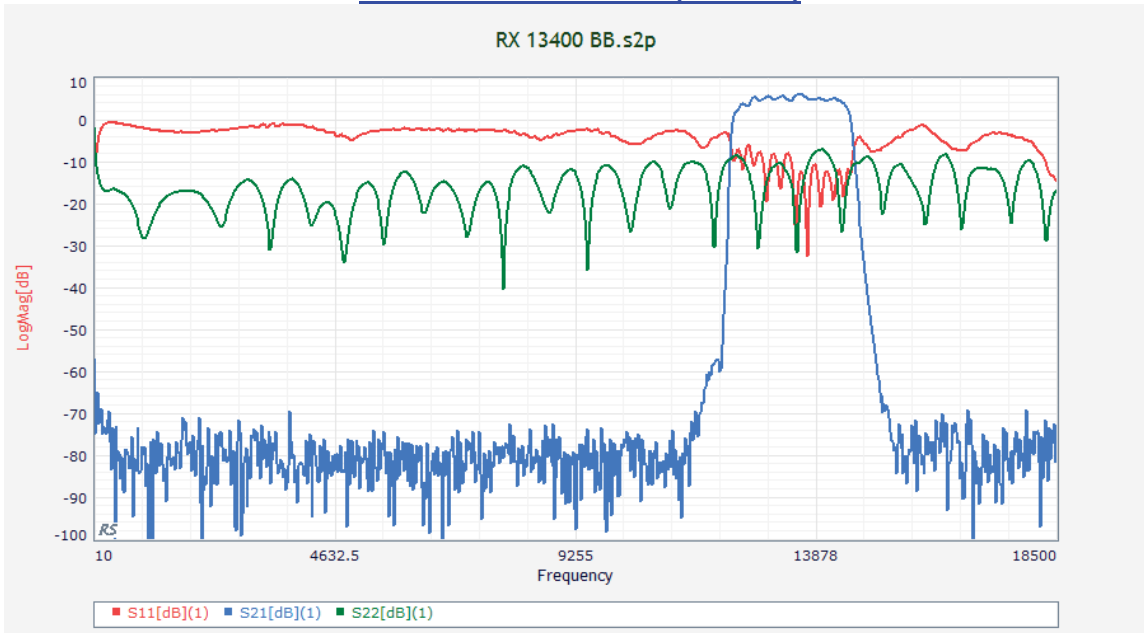


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RX Ch2 Path Narrow Band (J1 RX IN)



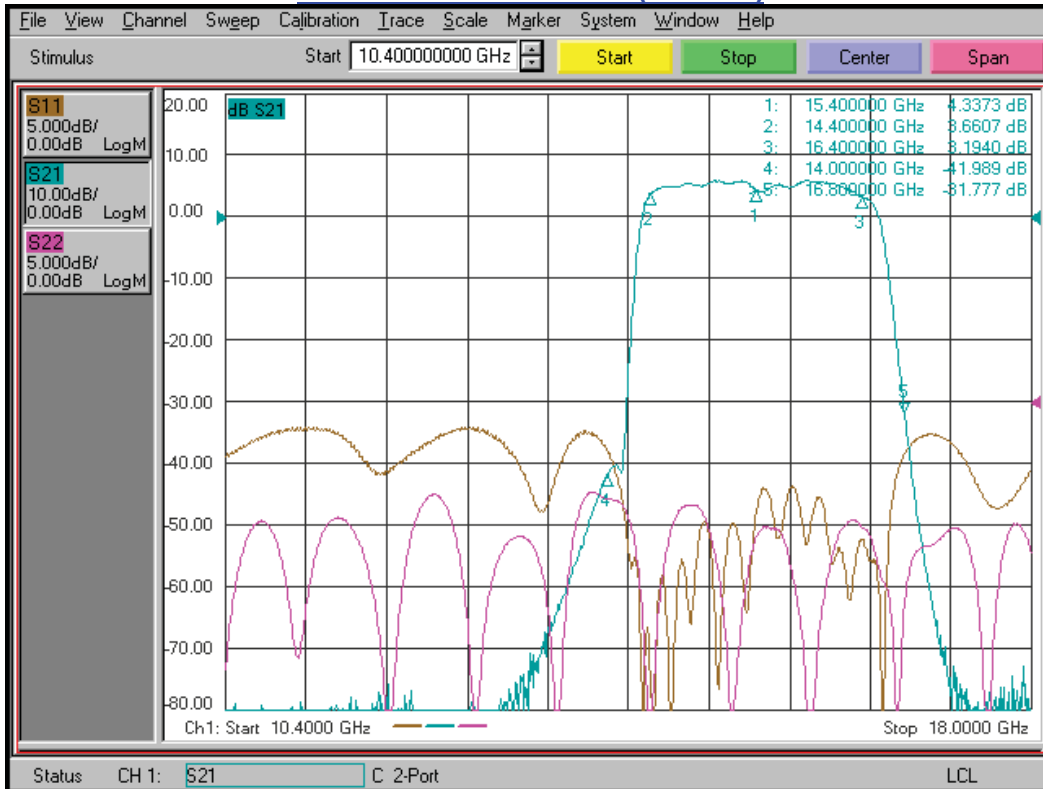
RX Ch2 Path Broadband (J1 RX IN)



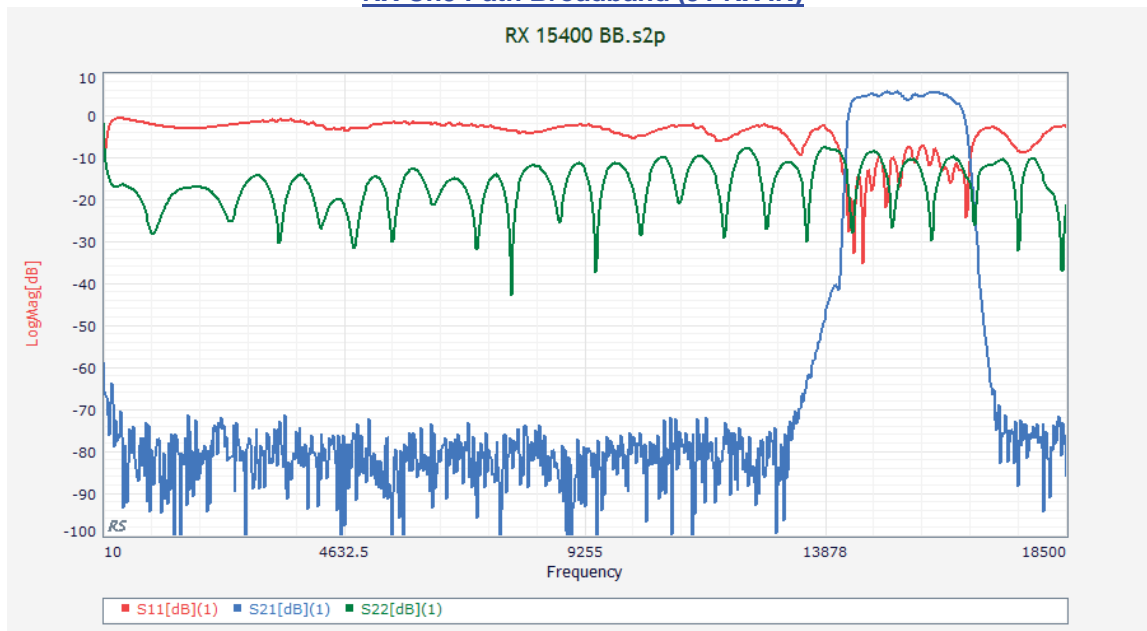


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RX Ch3 Path Narrow Band (J1 RX IN)



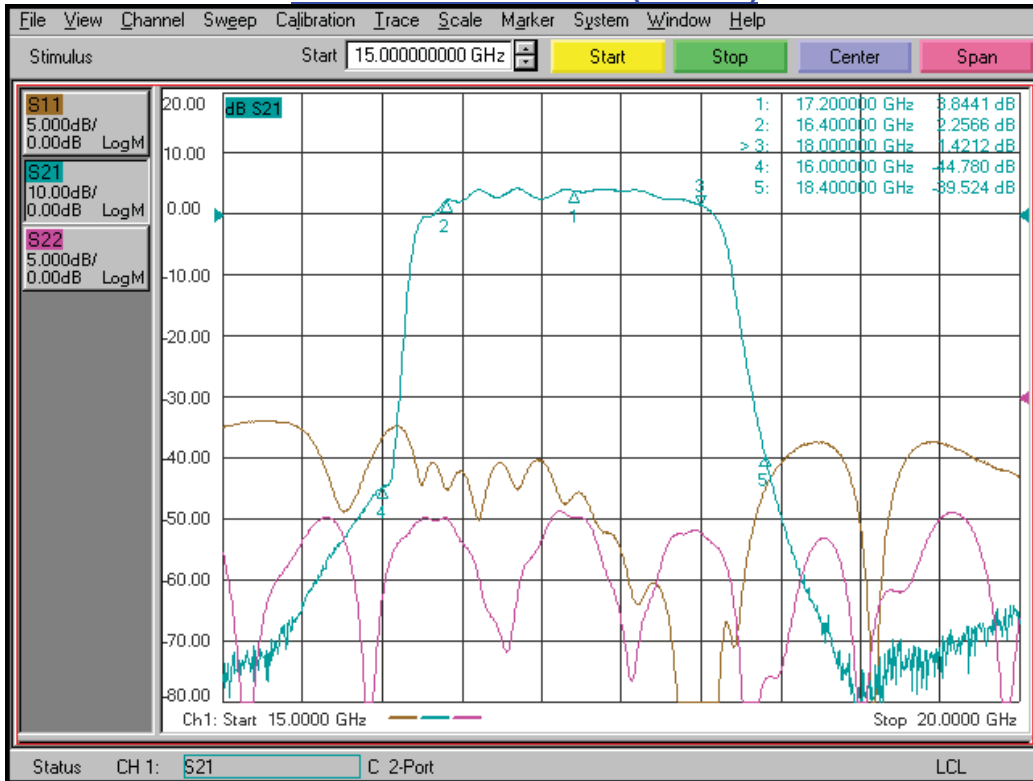
RX Ch3 Path Broadband (J1 RX IN)



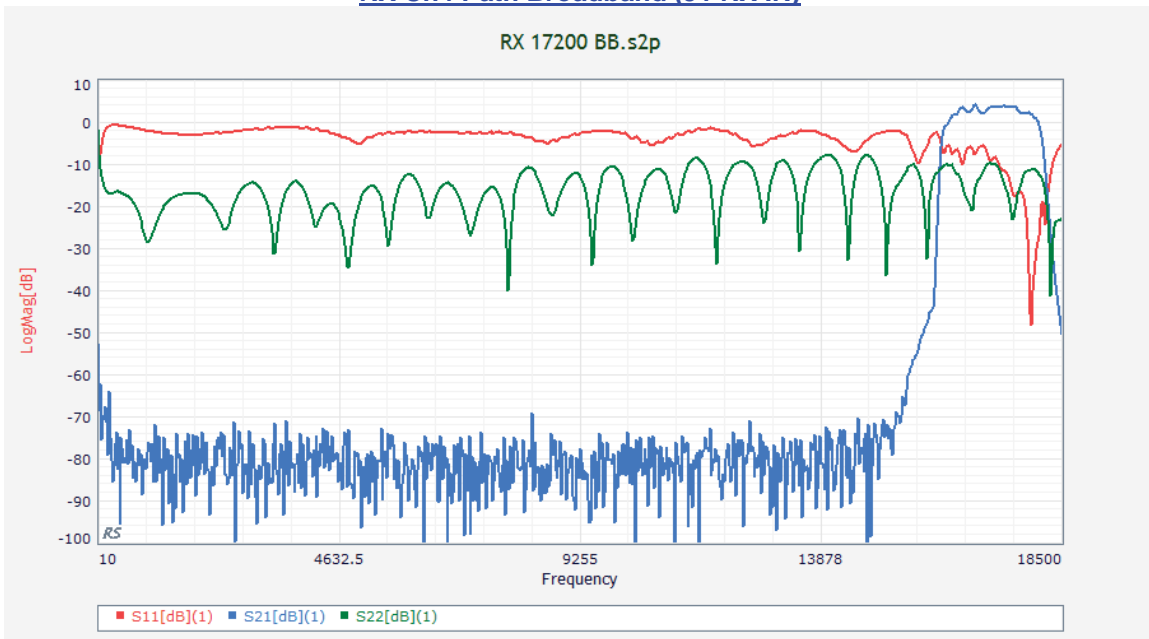


**SUMMARY TEST DATA
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RX Ch4 Path Narrow Band (J1 RX IN)



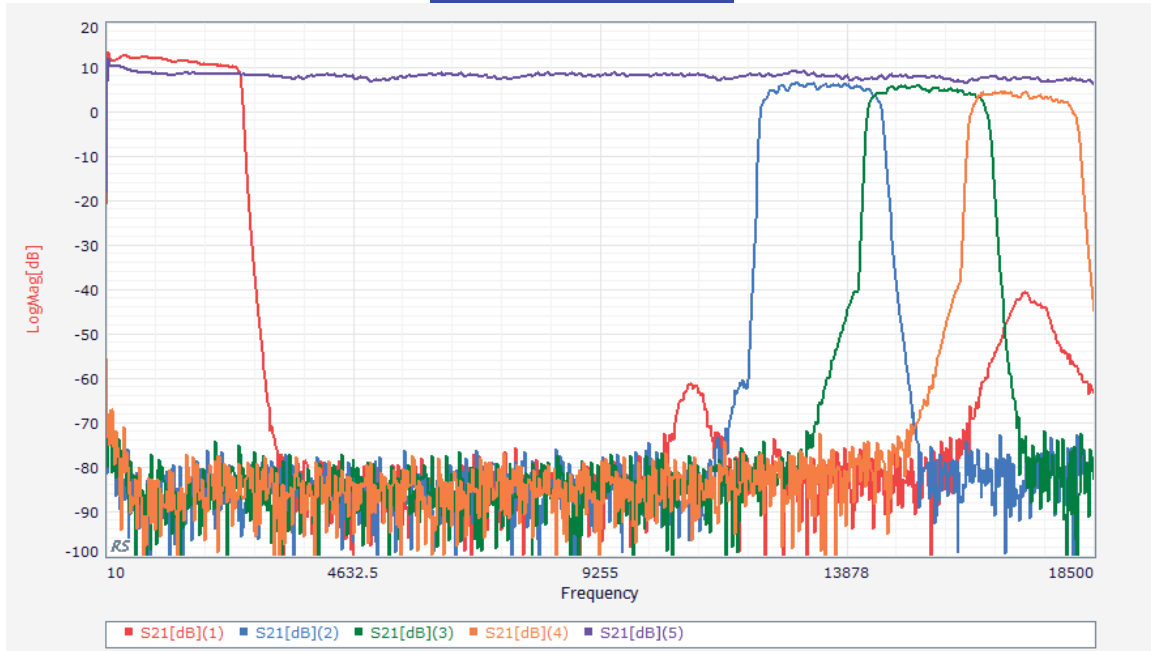
RX Ch4 Path Broadband (J1 RX IN)



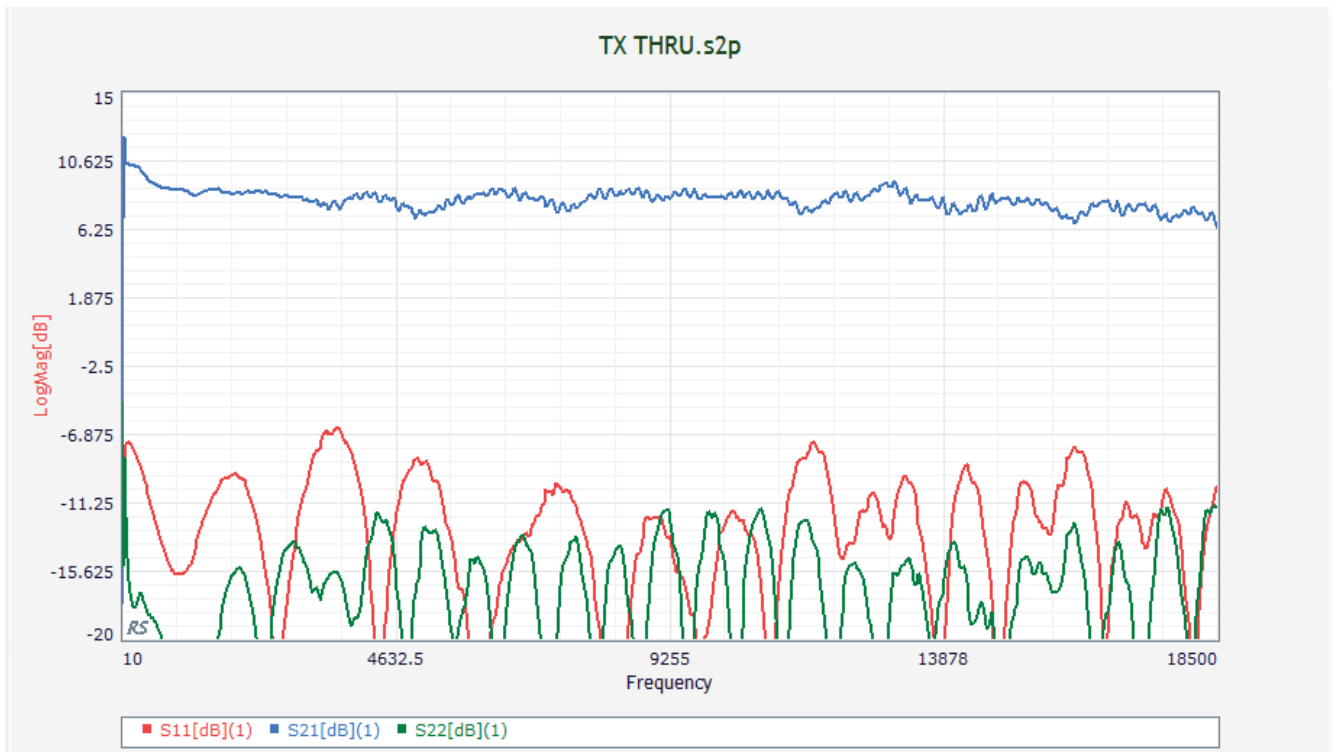


**SUMMARY TEST DATA
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ALL TX Paths (J5 TX IN)



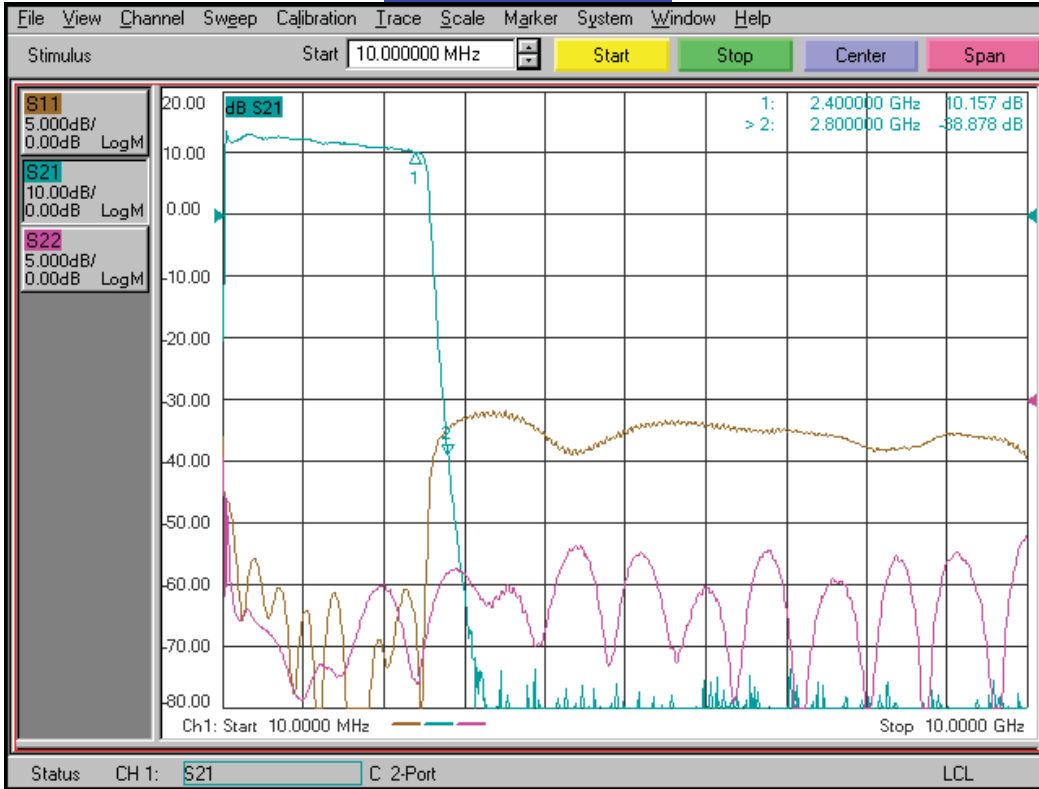
TX Thru Path (J5 TX IN)



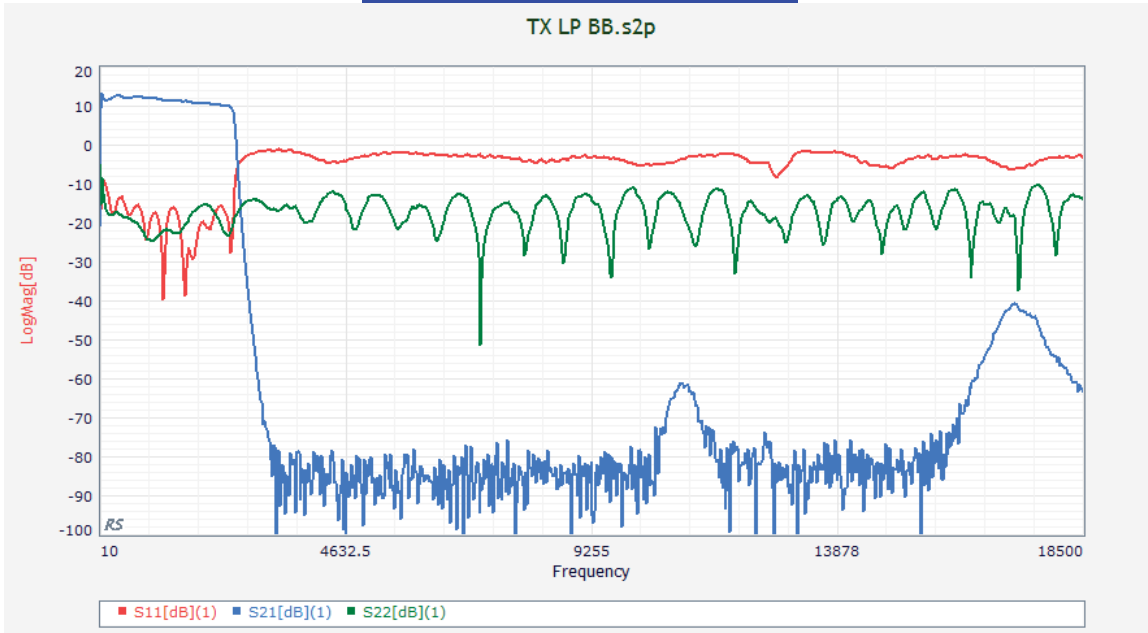


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TX Ch1 Path (J5 TX IN)



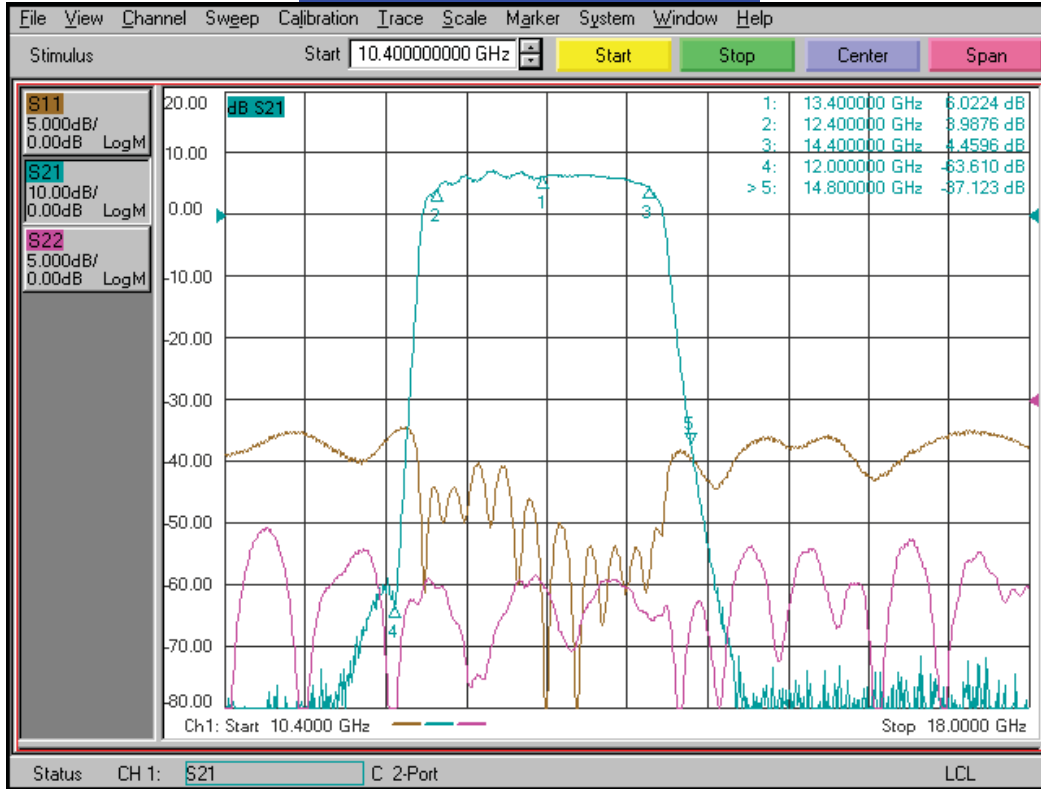
TX Ch1 Path Broadband (J5 TX IN)





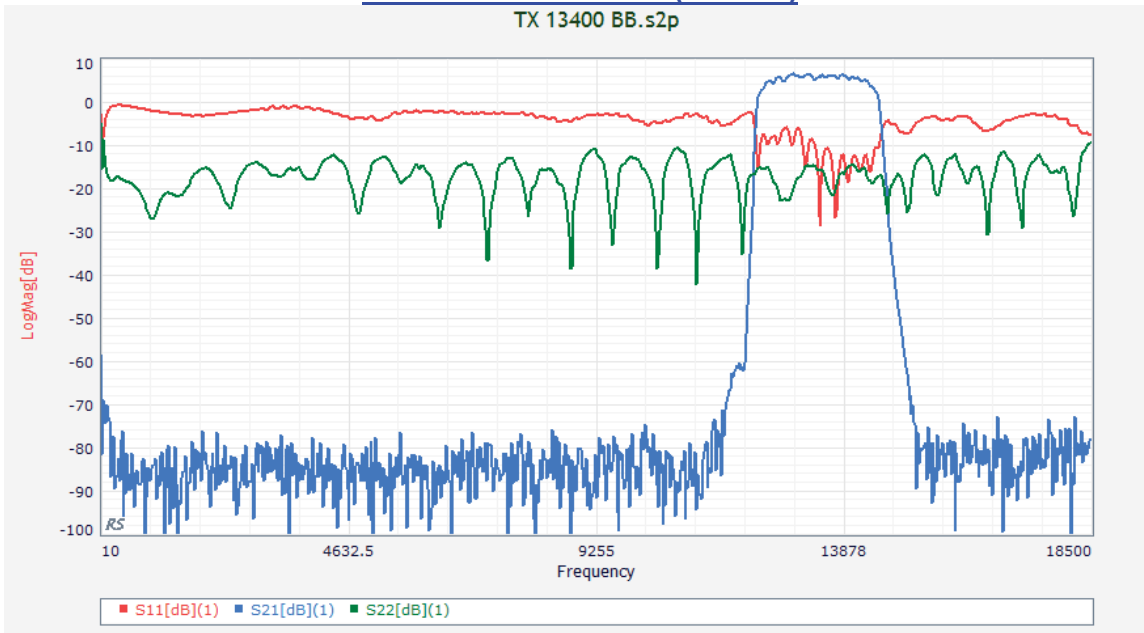
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TX Ch2 Path Narrow Band (J5 TX IN)



TX Ch2 Path Broadband (J5 TX IN)

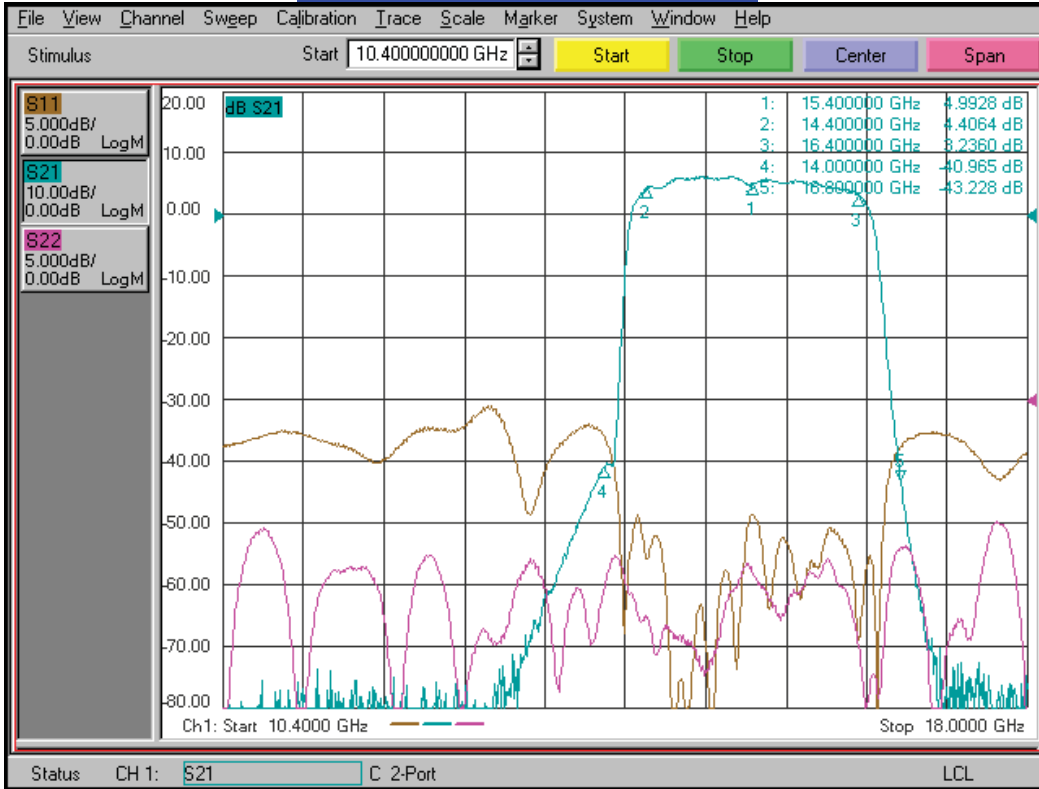
TX 13400 BB.s2p



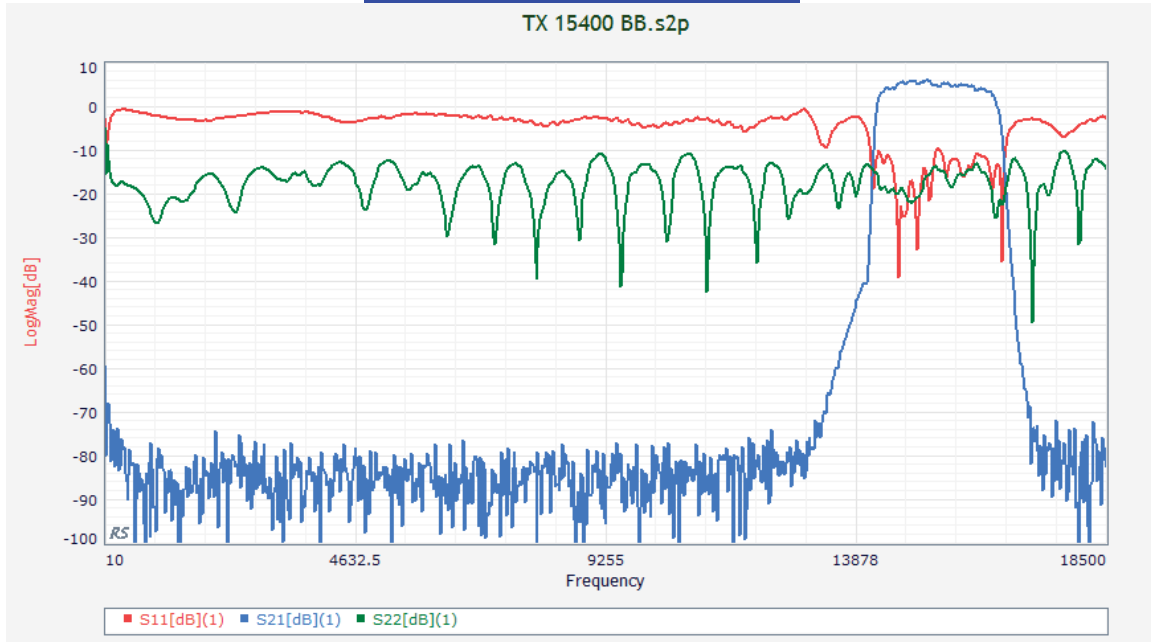


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TX Ch3 Path Narrow Band (J5 TX IN)



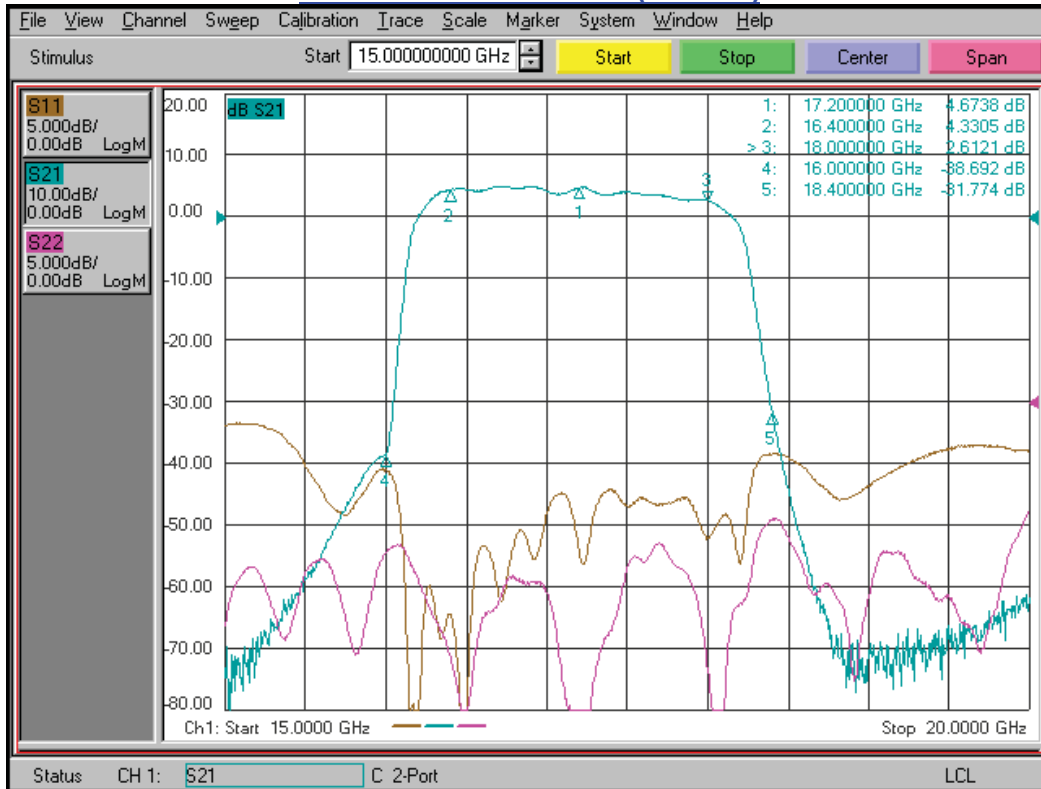
TX Ch3 Path Broadband (J5 TX IN)





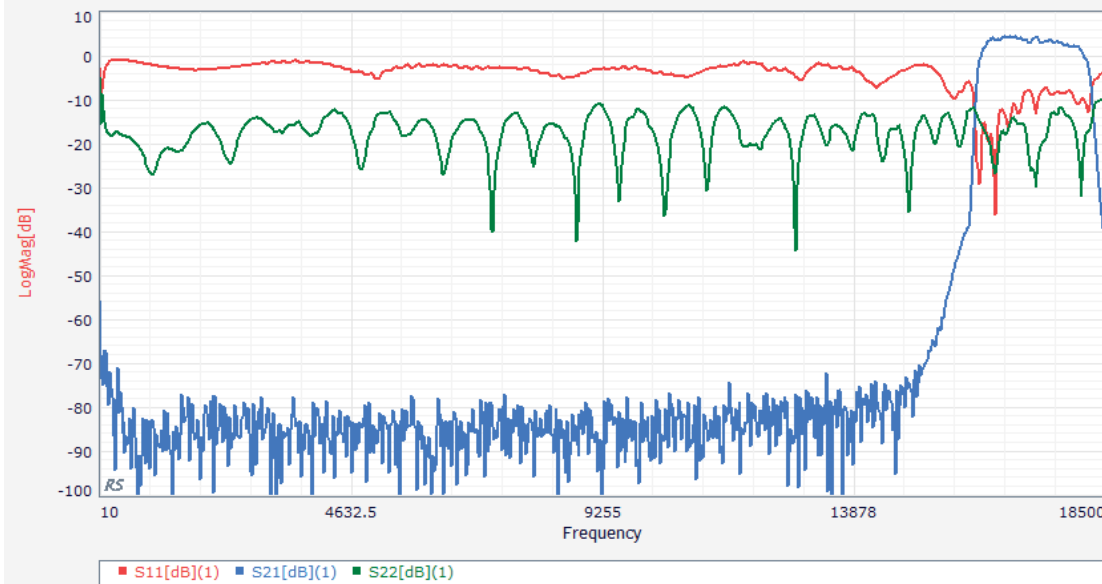
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TX Ch4 Path Narrow Band (J5 TX IN)



TX Ch4 Path Broadband (J5 TX IN)

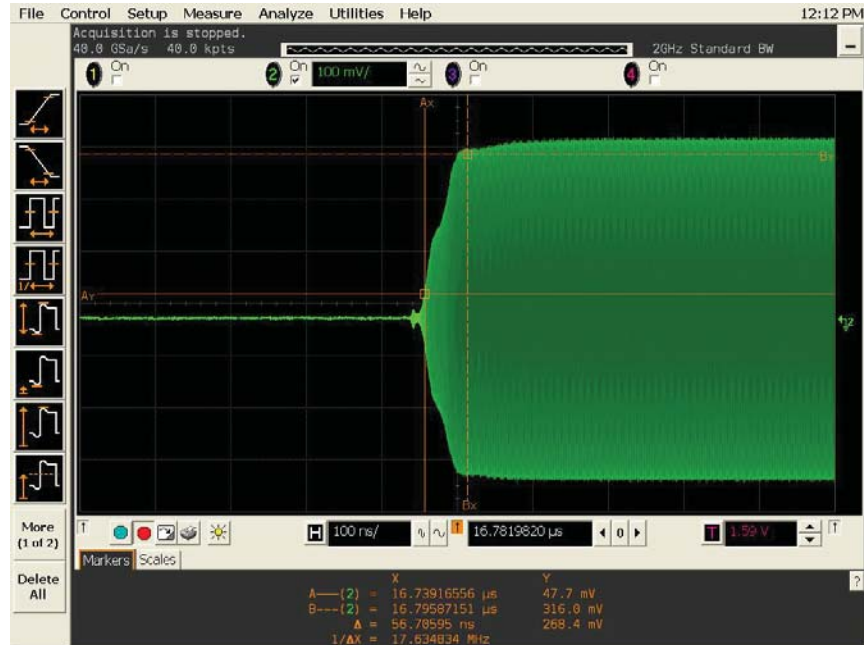
TX 17200 BB.s2p





**SUMMARY TEST DATA
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Switching Speed TX/RX ON TYP.



Switching Speed TX/RX OFF TYP.

