



Report No.: 20250619-0006

Test Date: 2025-06-19 19:48:09

SI Test Report

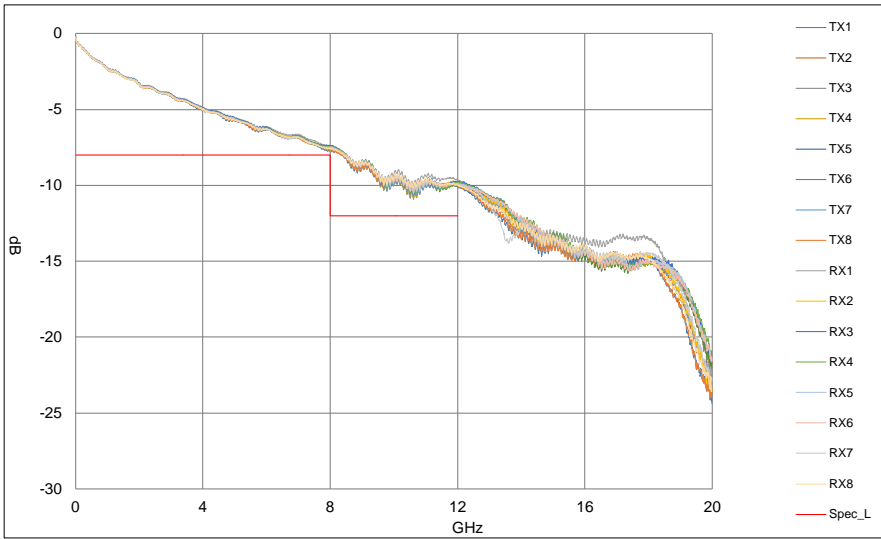
Customer Name	
Product Model NO.	MCIO
Model Description	16P 30AWG 85Ohm 1m Slimline_X8
Test Condition	Equipment: E5071C Keysight 300kHz-20GHz RF Switch: HFMS-72, Matrix Switch DC - 40GHz, 72CH Summary: Sweep 0.01GHz - 20GHz, Step 10MHz, BWID 50KHz, Rise Time 40Ps Text Fixture: SLIMSAS_8X_001 Environment: 24.7°C, 59%RH
Test Specification	PCIE4.0_85ohm_YFL_F
Test Result	PASS
Test Engineer	LG

Test Item:	Parameter	Specification	Test Result	
1).	SDD21	Insertion Loss	0.01 to 8.00 GHz: -8 dB; 8.00 to 12.00 GHz: -12 dB;	OK
2).	SDD11	Differential mode Return Loss	0.01 to 2.00 GHz: -10 dB; 2.00 to 8.00 GHz: -12+[F] dB; 8.00 to 12.00 GHz: -4 dB;	OK
3).	SDD22	Differential mode Return Loss	0.01 to 2.00 GHz: -10 dB; 2.00 to 8.00 GHz: -12+[F] dB; 8.00 to 12.00 GHz: -4 dB;	OK
4).	SCD21	Differential to common-mode conversion loss	0.01 to 12.00 GHz: -20+0.667*[F] dB;	OK
5).	SCC22	Common mode return loss	0.01 to 12.00 GHz: -2 dB;	OK
6).	SCD21-SDD21	Frequency Domain Jitter	0.01 to 12.00 GHz: -10 dB;	OK
7).	TDD11	Differential Impedance	1.00 to 1.40 ns: 97.75 Ohm; 1.40 to 3.00 ns: 93.5 Ohm; 1.00 to 1.40 ns: 72.25 Ohm; 1.40 to 3.00 ns: 76.5 Ohm;	OK
8).	TDD22	Differential Impedance	1.00 to 1.40 ns: 97.75 Ohm; 1.40 to 3.00 ns: 93.5 Ohm; 1.00 to 1.40 ns: 72.25 Ohm; 1.40 to 3.00 ns: 76.5 Ohm;	OK
9).	NEXT	Near end crosstalk	0.01 to 0.12 GHz: -55 dB; 0.12 to 12.00 GHz: -36.5+12.5*Log10([F]/4) dB;	OK
10).	FEXT	Far end crosstalk	0.01 to 0.15 GHz: -57 dB; 0.15 to 12.00 GHz: -36+15*Log10([F]/4) dB;	OK

Notes:

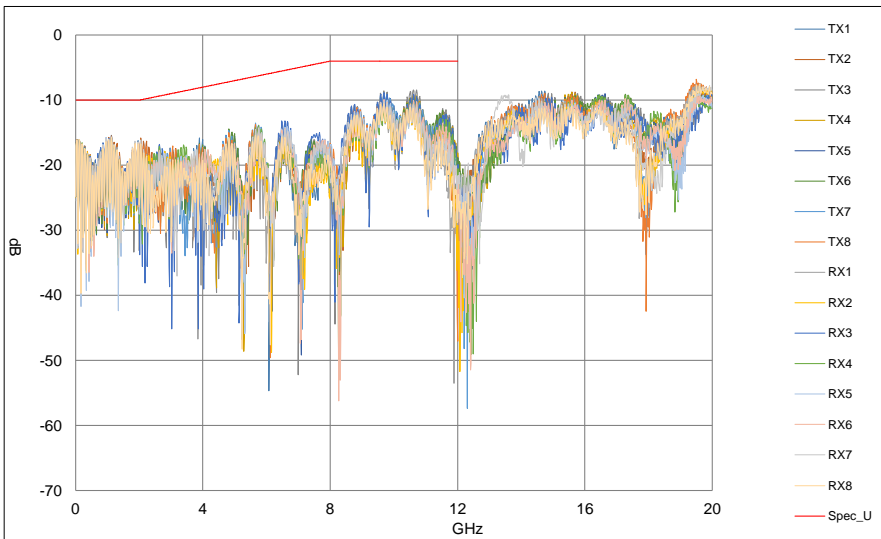
Approved By: Leo.Li

1). SDD21



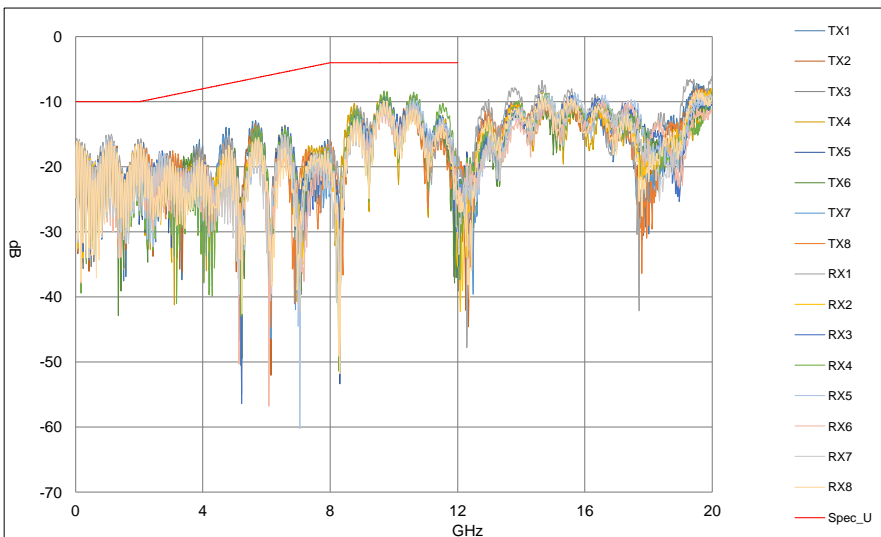
Pair NO.	SDD21 Unit:(dB)				Result
	4G	8G	12G	16G	
TX1	-5.11	-7.76	-10.53	-14.78	OK
TX2	-5.01	-7.55	-10.59	-14.95	OK
TX3	-5.03	-7.51	-10.90	-14.91	OK
TX4	-5.01	-7.58	-10.83	-14.76	OK
TX5	-5.00	-7.48	-10.63	-14.92	OK
TX6	-5.05	-7.56	-10.59	-15.01	OK
TX7	-5.03	-7.58	-10.65	-14.91	OK
TX8	-5.08	-7.75	-10.39	-15.01	OK
RX1	-4.89	-7.44	-10.09	-13.92	OK
RX2	-4.97	-7.49	-10.37	-14.64	OK
RX3	-4.91	-7.40	-10.52	-14.59	OK
RX4	-4.97	-7.47	-10.60	-14.46	OK
RX5	-4.99	-7.58	-10.55	-14.77	OK
RX6	-5.02	-7.55	-10.49	-14.67	OK
RX7	-4.96	-7.52	-10.36	-14.61	OK
RX8	-5.04	-7.58	-10.14	-14.43	OK
Spec	-8.00	-8.00	-12.00		N/A
Worst	-5.11	-7.76	-10.90		OK

2). SDD11



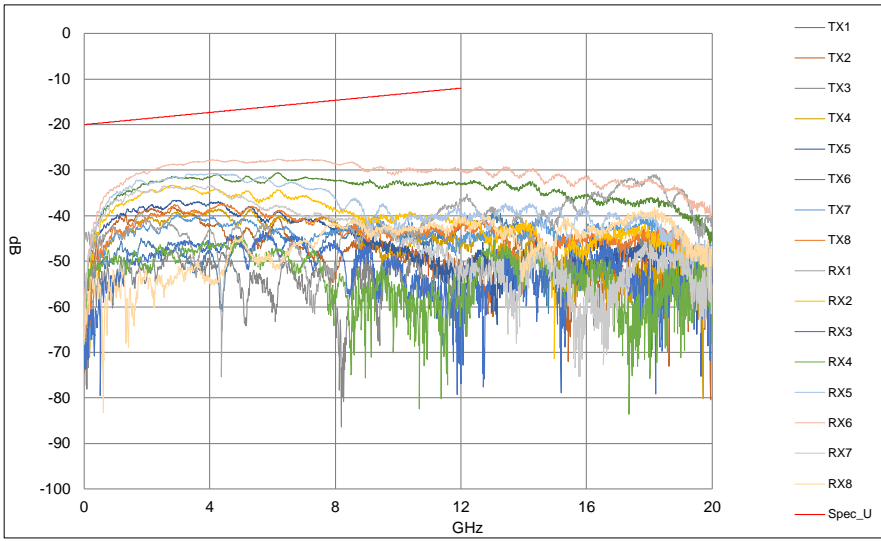
Pair NO.	SDD11 Unit:(dB)				Result
	8G	16G	20G	24G	
TX1	-14.47	-8.61	-7.60	-7.60	OK
TX2	-15.47	-8.76	-8.31	-8.31	OK
TX3	-13.77	-8.41	-8.23	-8.23	OK
TX4	-14.08	-8.77	-8.77	-8.77	OK
TX5	-14.44	-9.14	-9.04	-9.04	OK
TX6	-14.44	-9.30	-8.86	-8.86	OK
TX7	-13.50	-9.08	-7.59	-7.59	OK
TX8	-13.74	-8.98	-6.80	-6.80	OK
RX1	-15.36	-9.58	-7.44	-7.44	OK
RX2	-15.76	-9.69	-8.20	-8.20	OK
RX3	-13.17	-8.85	-8.40	-8.40	OK
RX4	-13.89	-9.67	-9.20	-9.20	OK
RX5	-14.11	-9.98	-9.03	-9.03	OK
RX6	-14.41	-9.93	-9.35	-9.35	OK
RX7	-14.28	-9.14	-7.76	-7.76	OK
RX8	-15.43	-10.53	-7.54	-7.54	OK
Spec	-4.00				N/A
Worst	-13.17				OK

3). SDD22

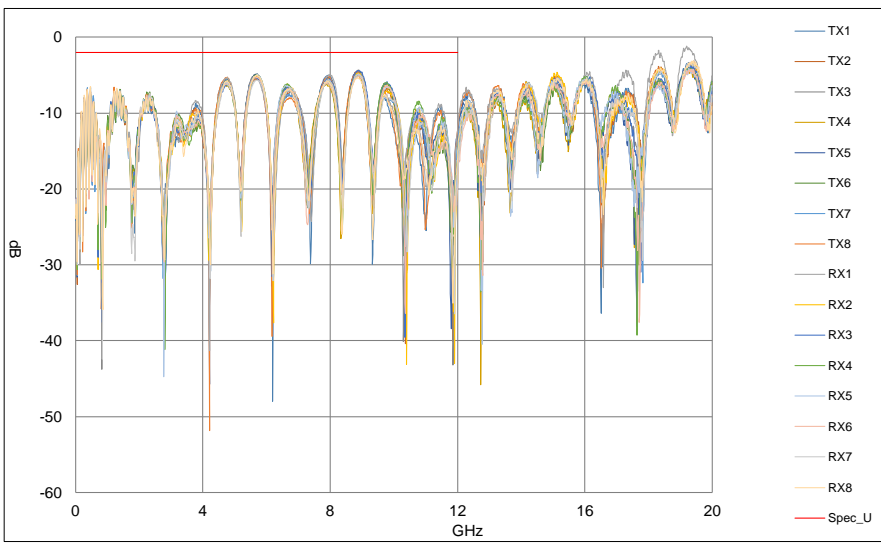


Pair NO.	SDD22 Unit:(dB)				Result
	8G	16G	20G	24G	
TX1	-12.85	-8.27	-7.24	-7.24	OK
TX2	-13.33	-9.19	-7.78	-7.78	OK
TX3	-13.56	-9.07	-8.13	-8.13	OK
TX4	-13.68	-8.55	-7.96	-7.96	OK
TX5	-14.13	-9.00	-8.81	-8.81	OK
TX6	-15.10	-9.67	-9.48	-9.48	OK
TX7	-14.10	-9.39	-8.52	-8.52	OK
TX8	-13.63	-9.34	-7.97	-7.97	OK
RX1	-13.96	-6.73	-5.90	-5.90	OK
RX2	-14.86	-8.54	-8.15	-8.15	OK
RX3	-13.90	-8.76	-8.76	-8.76	OK
RX4	-13.72	-8.32	-8.32	-8.32	OK
RX5	-15.34	-8.71	-8.71	-8.71	OK
RX6	-15.48	-9.89	-9.74	-9.74	OK
RX7	-15.00	-9.35	-8.62	-8.62	OK
RX8	-15.44	-8.87	-8.21	-8.21	OK
Spec	-4.00				N/A
Worst	-12.85				OK

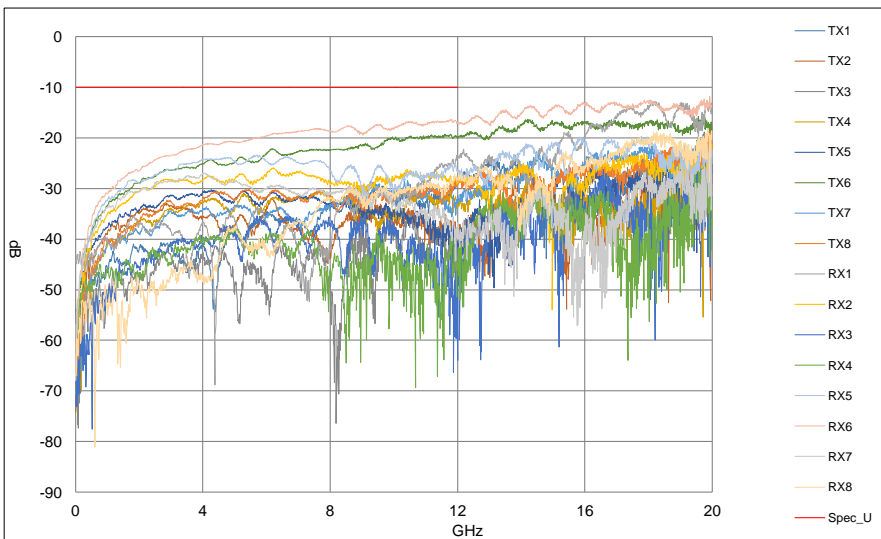
4). SCD21



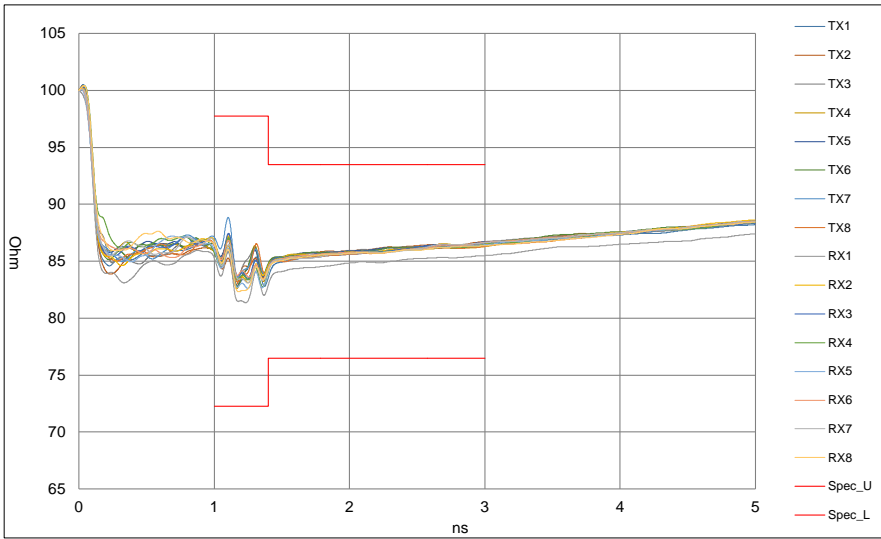
5). SCC22



6). SCD21-SDD21

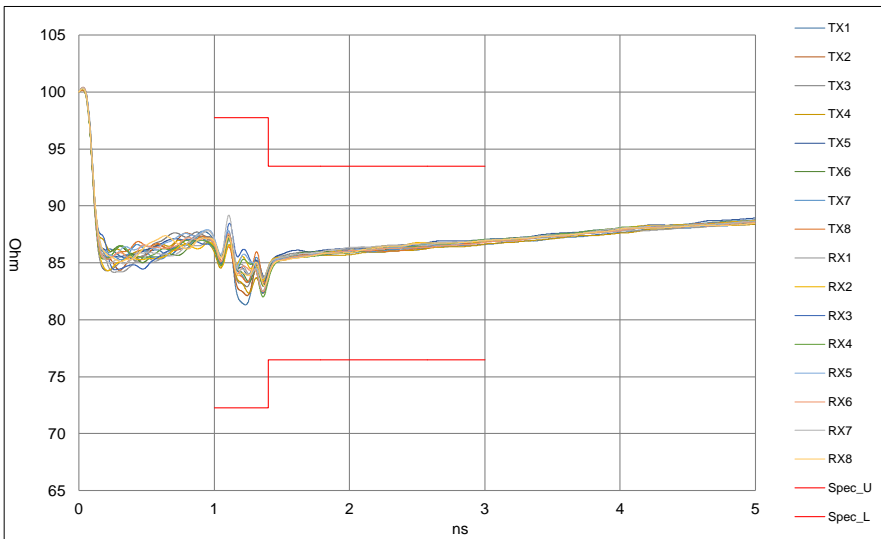


7). TDD11



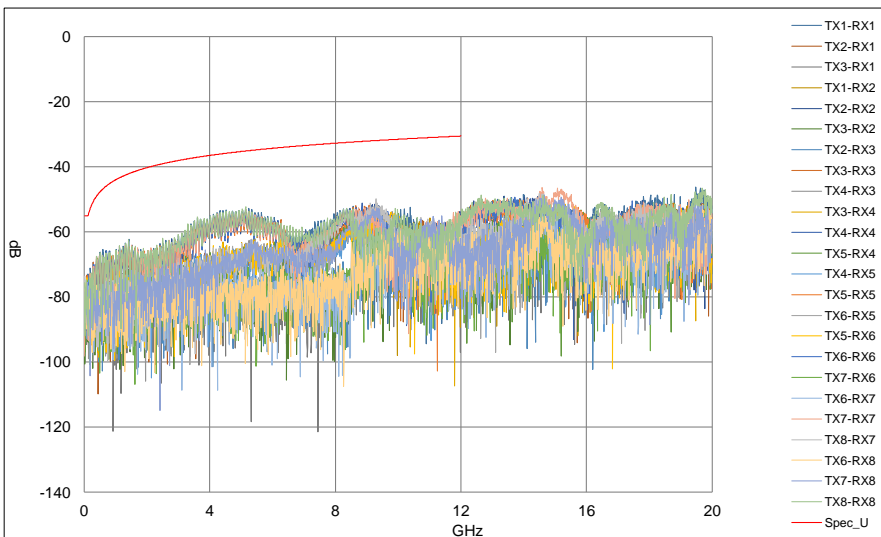
Pair NO.	Mating Area		Cable Area		Result
	MAX	MIN	MAX	MIN	
TX1	85.87	82.75	86.46	83.61	OK
TX2	85.90	82.90	86.69	84.65	OK
TX3	87.41	83.36	86.70	84.38	OK
TX4	86.38	82.61	86.30	84.22	OK
TX5	86.98	82.79	86.71	84.68	OK
TX6	86.92	82.77	86.52	84.83	OK
TX7	88.87	83.56	86.39	84.52	OK
TX8	87.07	83.16	86.31	84.41	OK
RX1	85.87	81.36	85.50	82.94	OK
RX2	87.22	83.12	86.55	84.67	OK
RX3	87.45	83.35	86.61	84.46	OK
RX4	87.06	82.74	86.46	84.15	OK
RX5	86.15	82.60	86.44	84.17	OK
RX6	86.85	83.42	86.66	84.46	OK
RX7	86.67	83.09	86.63	84.41	OK
RX8	86.48	82.32	86.36	84.30	OK
Spec	97.75	72.25	93.50	76.50	N/A
Worst	88.87	81.36	86.71	82.94	OK

8). TDD22



Pair NO.	Mating Area		Cable Area		Result
	MAX	MIN	MAX	MIN	
TX1	87.23	81.31	86.62	84.45	OK
TX2	87.53	82.12	86.93	84.57	OK
TX3	87.80	82.91	86.89	84.47	OK
TX4	87.29	82.33	86.64	83.66	OK
TX5	87.19	83.11	87.02	84.33	OK
TX6	87.43	82.96	86.90	84.13	OK
TX7	87.09	83.26	86.85	84.57	OK
TX8	86.81	83.22	86.90	83.89	OK
RX1	87.03	83.67	86.92	84.56	OK
RX2	86.58	83.45	86.91	84.69	OK
RX3	88.49	82.35	87.02	83.82	OK
RX4	87.12	82.01	87.05	83.47	OK
RX5	87.85	82.53	86.94	83.98	OK
RX6	87.53	82.46	86.79	83.92	OK
RX7	89.18	83.61	87.00	84.65	OK
RX8	87.31	82.99	86.94	83.79	OK
Spec	97.75	72.25	93.50	76.50	N/A
Worst	89.18	81.31	87.05	83.47	OK

9). NEXT



10). FEXT

