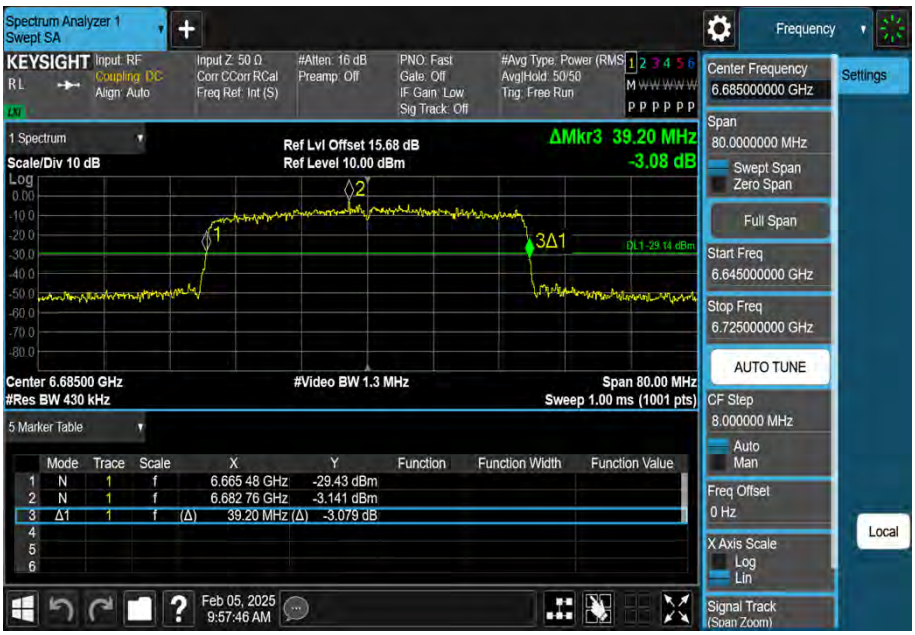
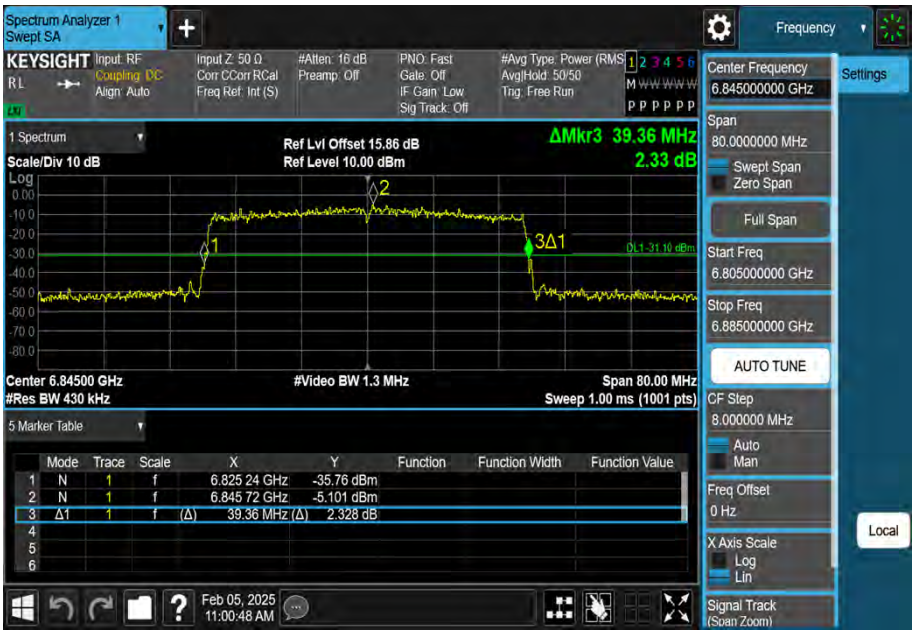
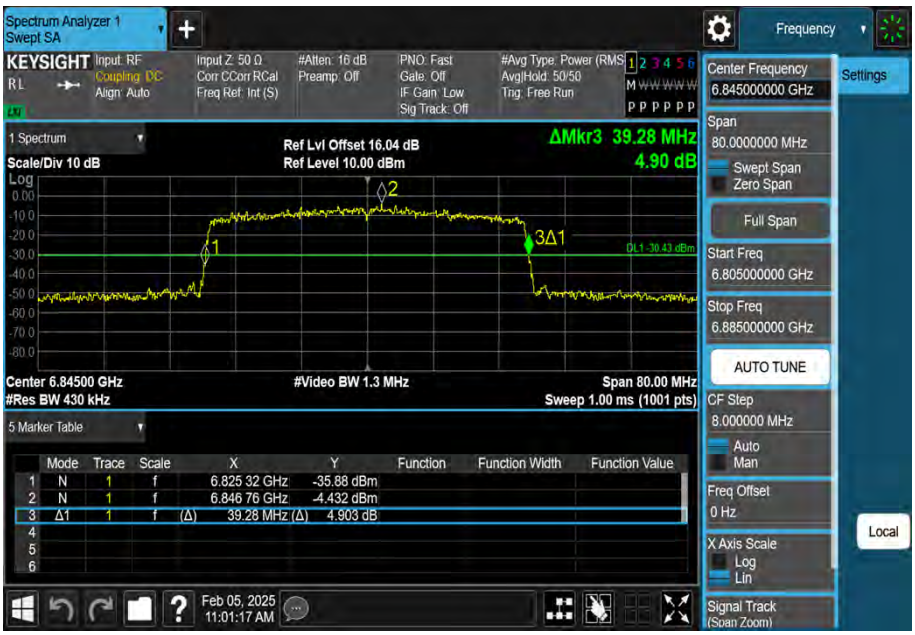
11AX40MIMO-Ant1-6685



11AX40MIMO-Ant2-6685



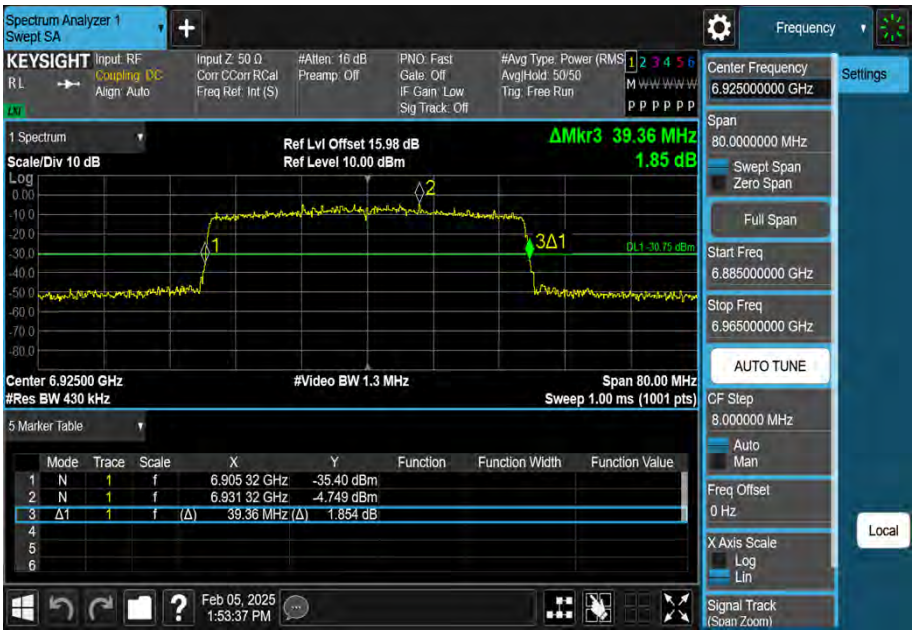
11AX40MIMO-Ant1-6845



11AX40MIMO-Ant2-6845

11AX40MIMO-Ant1-6885

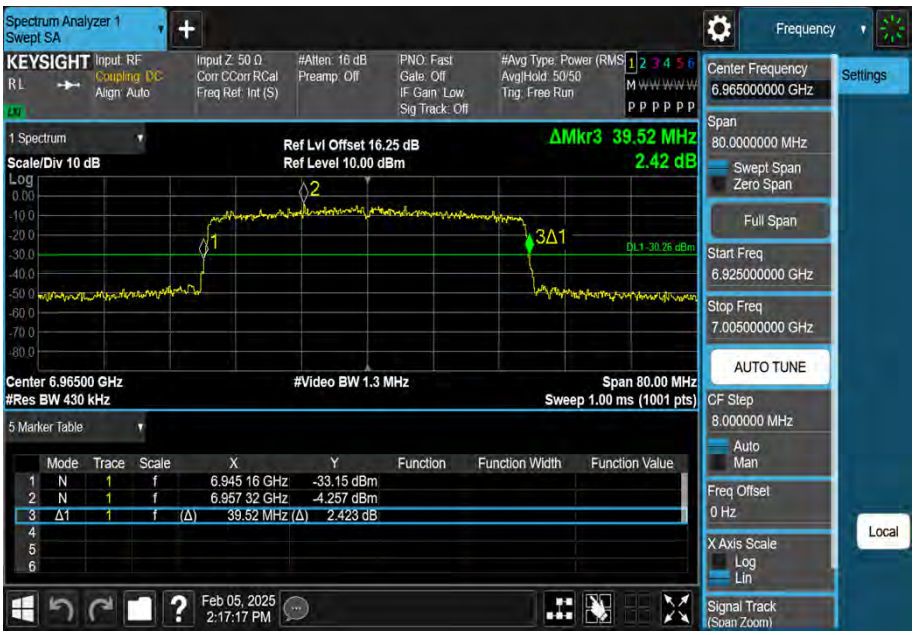
11AX40MIMO-Ant2-6885



11AX40MIMO-Ant1-6925

11AX40MIMO-Ant2-6925

11AX40MIMO-Ant1-6965



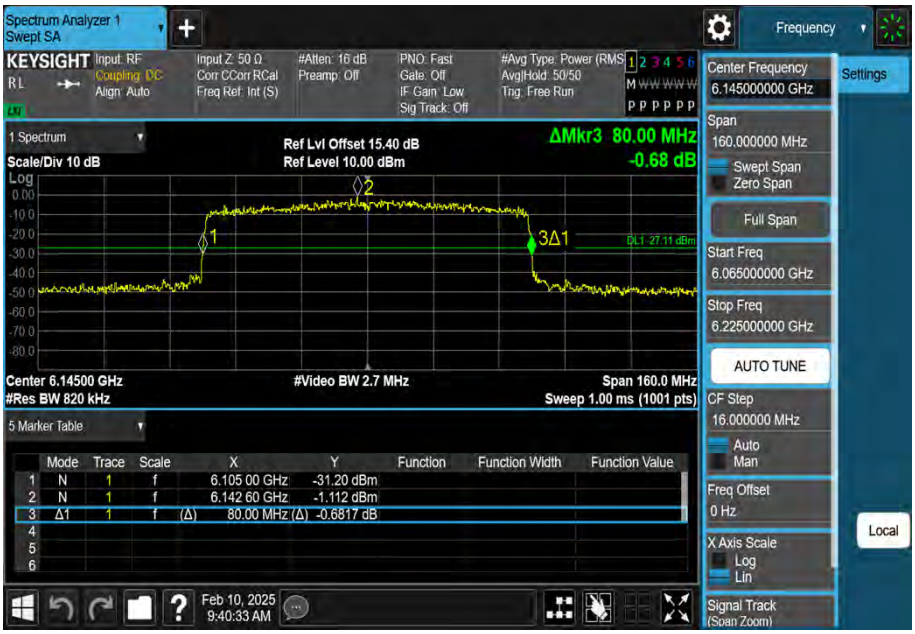
11AX40MIMO-Ant2-6965

11AX40MIMO-Ant1-7085

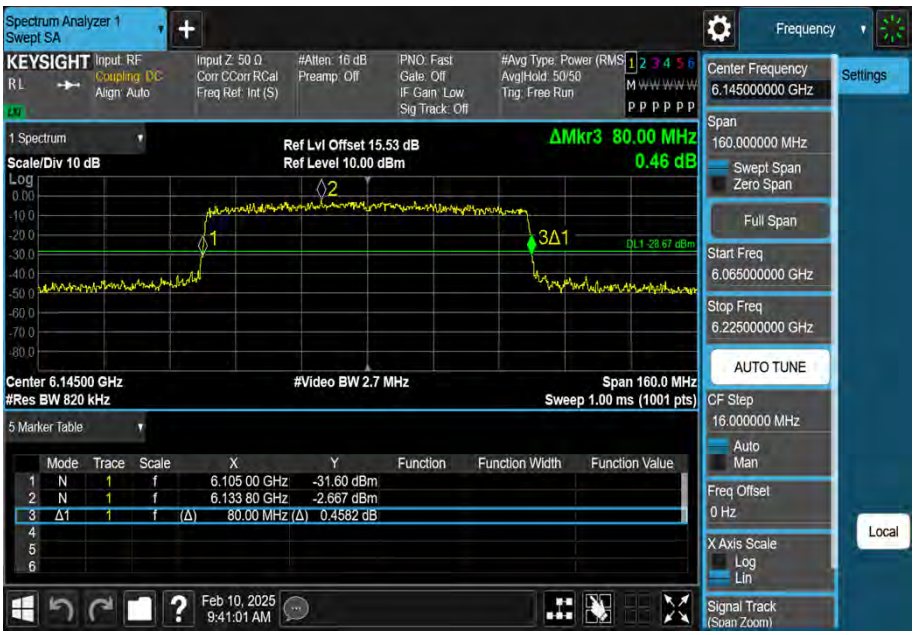
11AX40MIMO-Ant2-7085

11AX80MIMO-Ant1-5985

11AX80MIMO-Ant2-5985



11AX80MIMO-Ant1-6145



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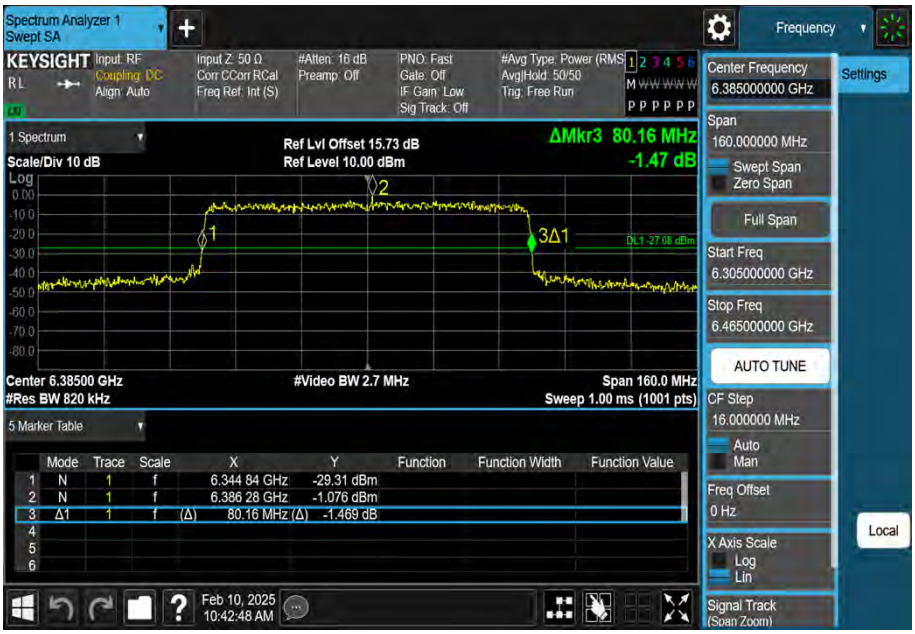
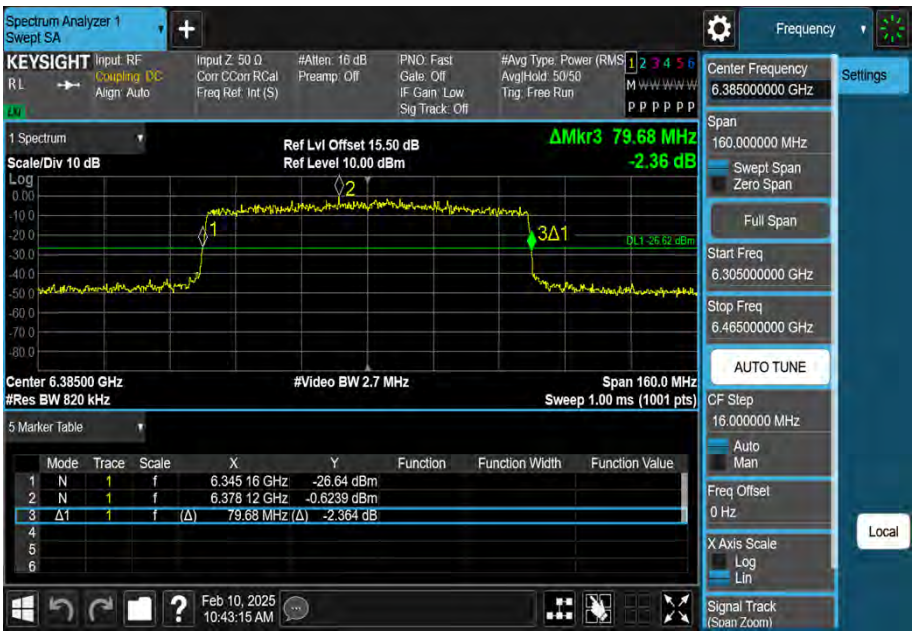
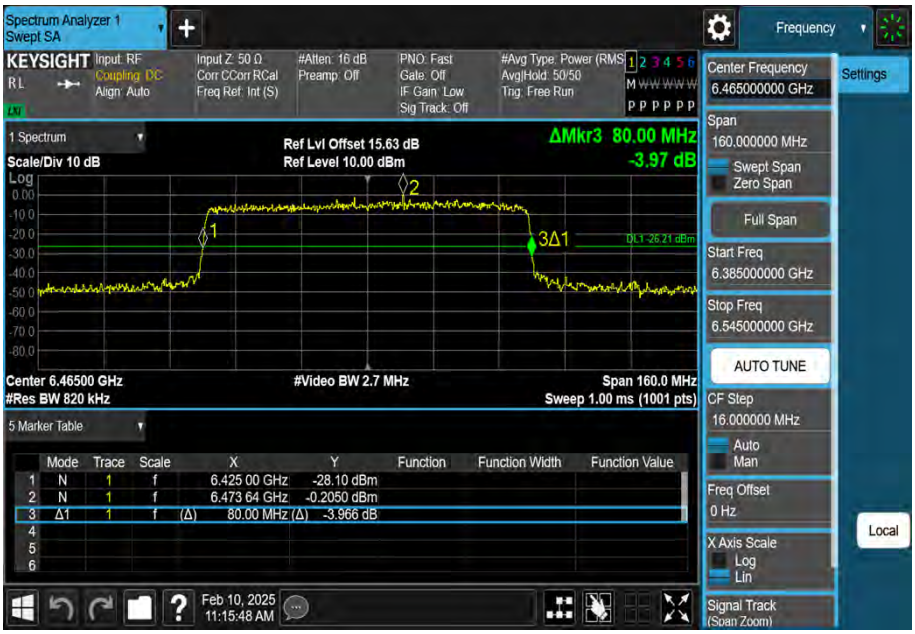


11AX80MIMO-Ant1-6385

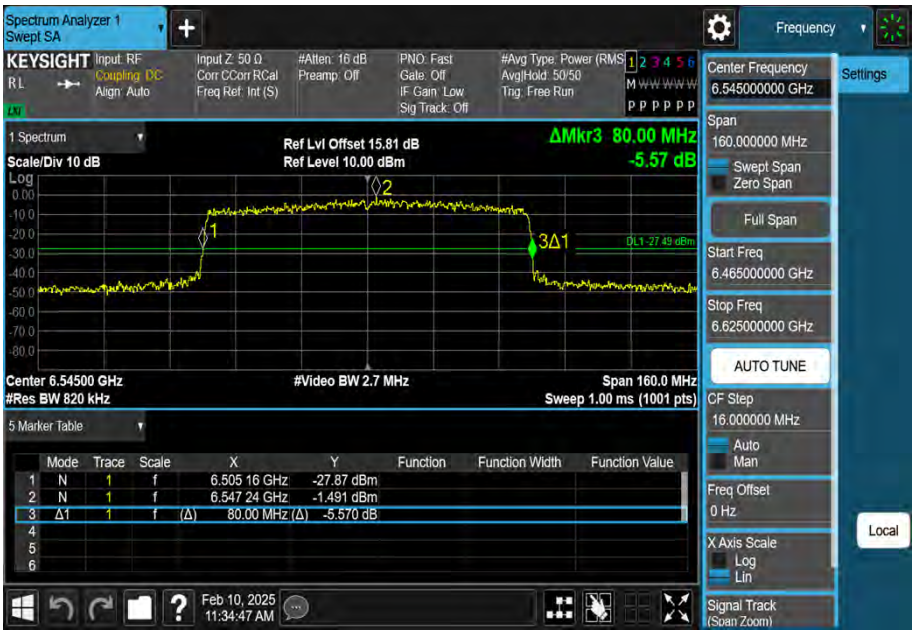


11AX80MIMO-Ant2-6385



11AX80MIMO-Ant1-6465

11AX80MIMO-Ant2-6465



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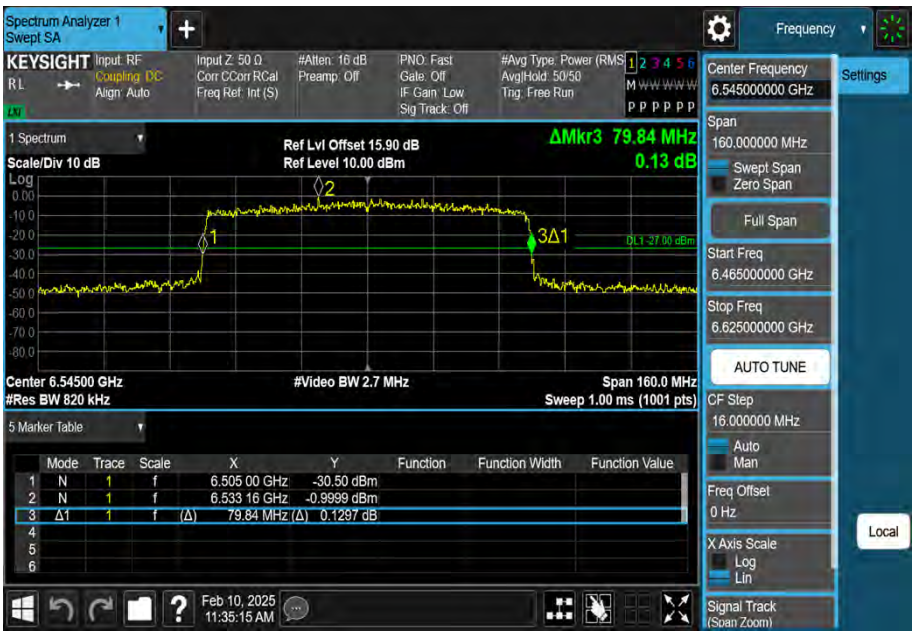
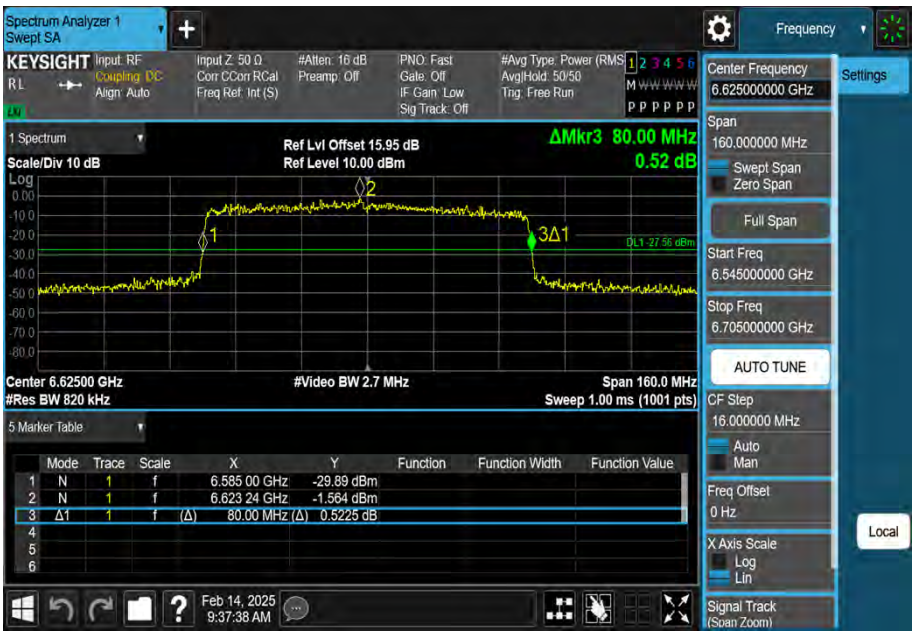


11AX80MIMO-Ant2-6545

11AX80MIMO-Ant1-6625



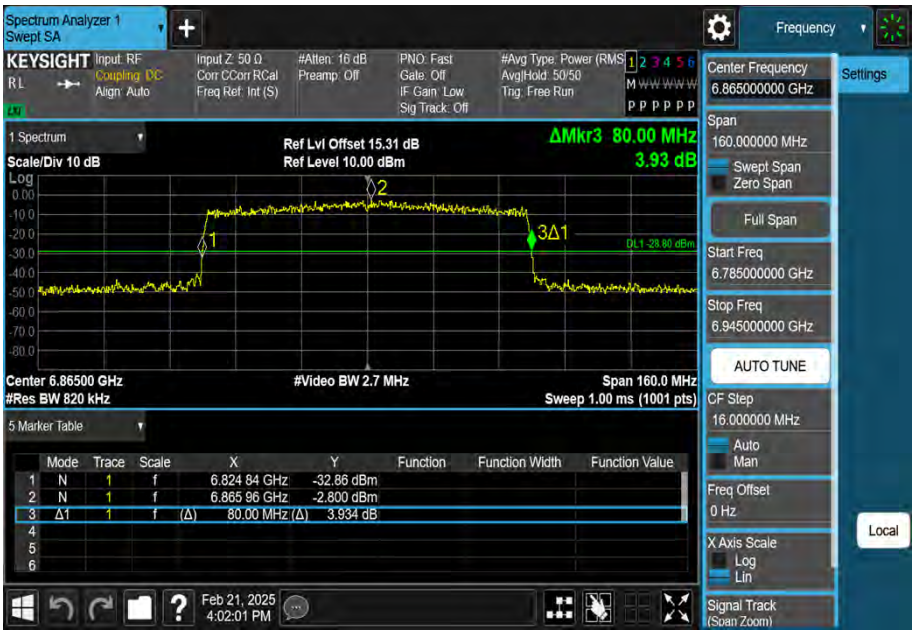
11AX80MIMO-Ant2-6625

11AX80MIMO-Ant1-6705

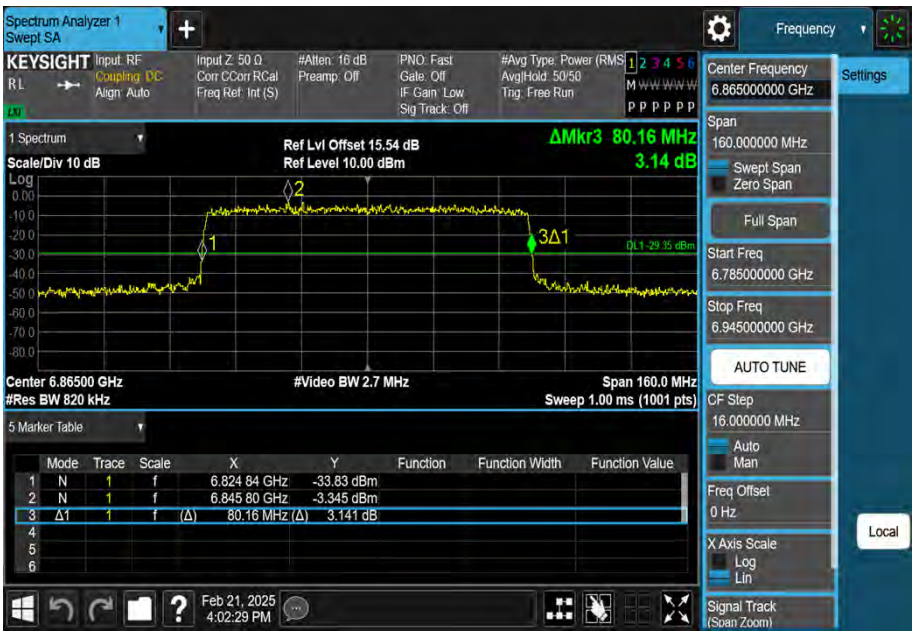
11AX80MIMO-Ant2-6705

11AX80MIMO-Ant1-6785

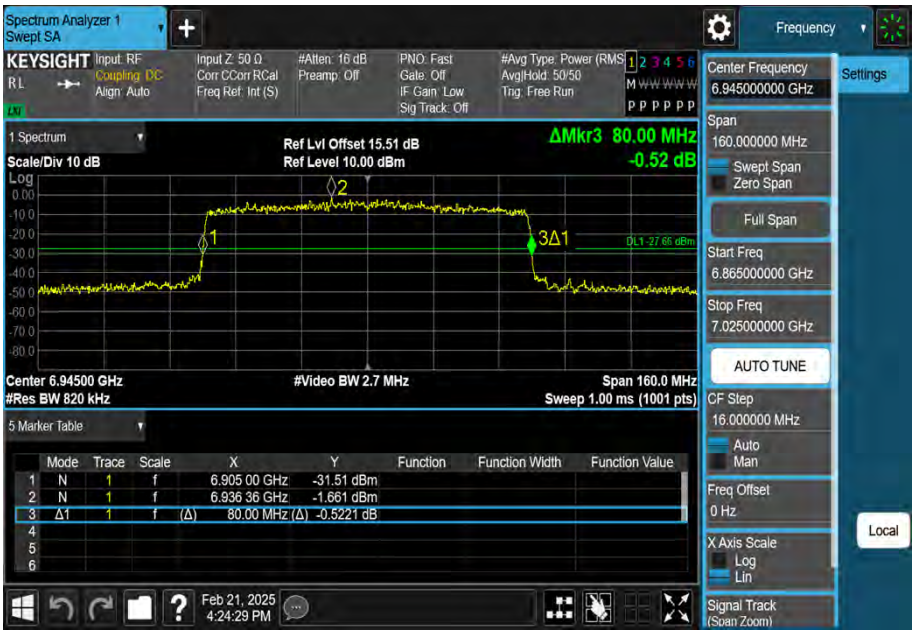
11AX80MIMO-Ant2-6785



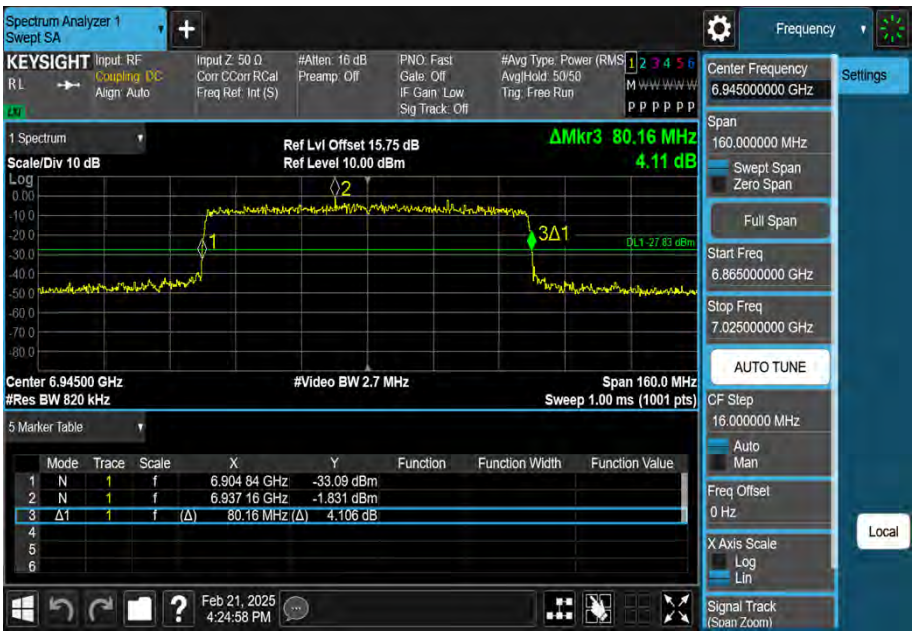
11AX80MIMO-Ant1-6865



11AX80MIMO-Ant2-6865



11AX80MIMO-Ant1-6945



11AX80MIMO-Ant2-6945

11AX80MIMO-Ant1-7025

11AX80MIMO-Ant2-7025

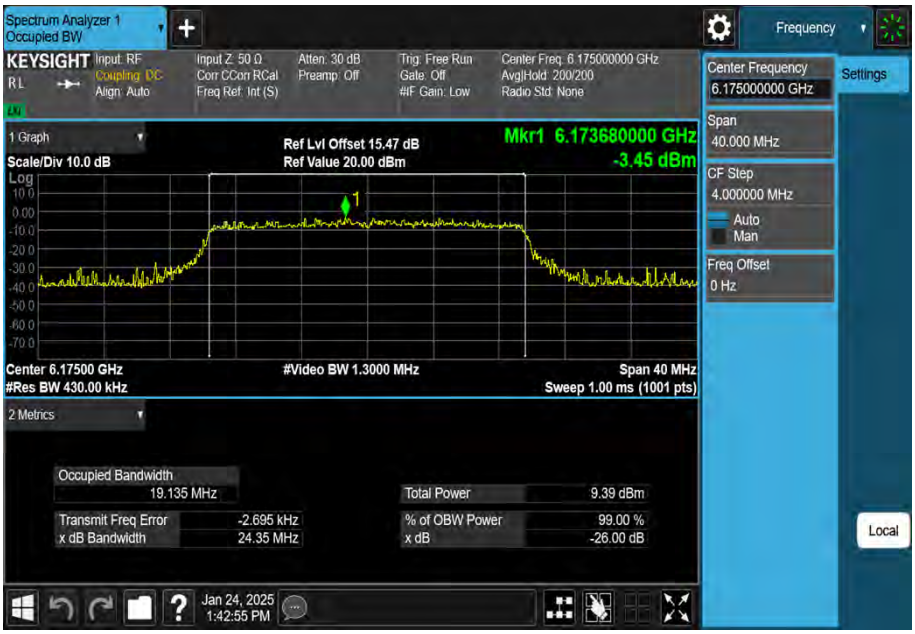
Occupied channel bandwidth

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11AX20MIMO	Ant1	5955	19.242	5945.3471	5964.5891	≤320	PASS
11AX20MIMO	Ant2	5955	19.358	5945.4001	5964.7581	≤320	PASS
11AX20MIMO	Ant1	6175	19.135	6165.4298	6184.5648	≤320	PASS
11AX20MIMO	Ant2	6175	19.184	6165.3679	6184.5519	≤320	PASS
11AX20MIMO	Ant1	6415	19.130	6405.3636	6424.4936	≤320	PASS
11AX20MIMO	Ant2	6415	19.113	6405.4068	6424.5198	≤320	PASS
11AX20MIMO	Ant1	6435	19.159	6425.3114	6444.4704	≤320	PASS
11AX20MIMO	Ant2	6435	19.154	6425.3932	6444.5472	≤320	PASS
11AX20MIMO	Ant1	6475	19.126	6465.4458	6484.5718	≤320	PASS
11AX20MIMO	Ant2	6475	19.161	6465.4311	6484.5921	≤320	PASS
11AX20MIMO	Ant1	6515	19.096	6505.4371	6524.5331	≤320	PASS
11AX20MIMO	Ant2	6515	19.137	6505.4459	6524.5829	≤320	PASS
11AX20MIMO	Ant1	6535	19.122	6525.4730	6544.5950	≤320	PASS
11AX20MIMO	Ant2	6535	19.079	6525.4375	6544.5165	≤320	PASS
11AX20MIMO	Ant1	6695	19.124	6685.3977	6704.5217	≤320	PASS
11AX20MIMO	Ant2	6695	19.096	6685.4458	6704.5418	≤320	PASS
11AX20MIMO	Ant1	6855	19.083	6845.3977	6864.4807	≤320	PASS
11AX20MIMO	Ant2	6855	19.105	6845.4390	6864.5440	≤320	PASS
11AX20MIMO	Ant1	6875	19.215	6865.4473	6884.6623	≤320	PASS
11AX20MIMO	Ant2	6875	19.163	6865.3765	6884.5395	≤320	PASS
11AX20MIMO	Ant1	6895	19.267	6885.3202	6904.5872	≤320	PASS
11AX20MIMO	Ant2	6895	19.228	6885.3312	6904.5592	≤320	PASS
11AX20MIMO	Ant1	6995	19.120	6985.3375	7004.4575	≤320	PASS
11AX20MIMO	Ant2	6995	19.146	6985.3962	7004.5422	≤320	PASS
11AX20MIMO	Ant1	7115	19.154	7105.4043	7124.5583	≤320	PASS
11AX20MIMO	Ant2	7115	19.135	7105.3821	7124.5171	≤320	PASS
11AX40MIMO	Ant1	5965	37.630	5946.2285	5983.8585	≤320	PASS
11AX40MIMO	Ant2	5965	37.540	5946.3274	5983.8674	≤320	PASS
11AX40MIMO	Ant1	6165	37.578	6146.2934	6183.8714	≤320	PASS
11AX40MIMO	Ant2	6165	37.489	6146.2106	6183.6996	≤320	PASS
11AX40MIMO	Ant1	6405	37.244	6386.4197	6423.6637	≤320	PASS
11AX40MIMO	Ant2	6405	37.550	6386.1559	6423.7059	≤320	PASS
11AX40MIMO	Ant1	6445	37.752	6426.1654	6463.9174	≤320	PASS
11AX40MIMO	Ant2	6445	37.450	6426.2472	6463.6972	≤320	PASS
11AX40MIMO	Ant1	6485	37.371	6466.2625	6503.6335	≤320	PASS
11AX40MIMO	Ant2	6485	37.506	6466.2219	6503.7279	≤320	PASS
11AX40MIMO	Ant1	6525	37.656	6506.2670	6543.9230	≤320	PASS
11AX40MIMO	Ant2	6525	37.573	6506.1645	6543.7375	≤320	PASS
11AX40MIMO	Ant1	6565	37.528	6546.2139	6583.7419	≤320	PASS
11AX40MIMO	Ant2	6565	37.407	6546.2163	6583.6233	≤320	PASS

11AX40MIMO	Ant1	6685	37.433	6666.2533	6703.6863	≤320	PASS
11AX40MIMO	Ant2	6685	37.461	6666.2965	6703.7575	≤320	PASS
11AX40MIMO	Ant1	6845	37.644	6826.1347	6863.7787	≤320	PASS
11AX40MIMO	Ant2	6845	37.441	6826.2249	6863.6659	≤320	PASS
11AX40MIMO	Ant1	6885	37.514	6866.3551	6903.8691	≤320	PASS
11AX40MIMO	Ant2	6885	37.558	6866.1629	6903.7209	≤320	PASS
11AX40MIMO	Ant1	6925	37.603	6906.2202	6943.8232	≤320	PASS
11AX40MIMO	Ant2	6925	37.395	6906.2009	6943.5959	≤320	PASS
11AX40MIMO	Ant1	6965	37.530	6946.2856	6983.8156	≤320	PASS
11AX40MIMO	Ant2	6965	37.649	6946.1685	6983.8175	≤320	PASS
11AX40MIMO	Ant1	7085	37.643	7066.0966	7103.7396	≤320	PASS
11AX40MIMO	Ant2	7085	37.546	7066.1628	7103.7088	≤320	PASS
11AX80MIMO	Ant1	5985	76.758	5946.5920	6023.3500	≤320	PASS
11AX80MIMO	Ant2	5985	76.521	5946.6792	6023.2002	≤320	PASS
11AX80MIMO	Ant1	6145	76.873	6106.5944	6183.4674	≤320	PASS
11AX80MIMO	Ant2	6145	76.678	6106.6778	6183.3558	≤320	PASS
11AX80MIMO	Ant1	6385	77.419	6346.2016	6423.6206	≤320	PASS
11AX80MIMO	Ant2	6385	76.861	6346.5242	6423.3852	≤320	PASS
11AX80MIMO	Ant1	6465	77.166	6426.4256	6503.5916	≤320	PASS
11AX80MIMO	Ant2	6465	76.798	6426.6034	6503.4014	≤320	PASS
11AX80MIMO	Ant1	6545	76.758	6506.6311	6583.3891	≤320	PASS
11AX80MIMO	Ant2	6545	77.147	6506.4325	6583.5795	≤320	PASS
11AX80MIMO	Ant1	6625	76.929	6586.3462	6663.2752	≤320	PASS
11AX80MIMO	Ant2	6625	77.161	6586.1724	6663.3334	≤320	PASS
11AX80MIMO	Ant1	6705	76.352	6666.7520	6743.1040	≤320	PASS
11AX80MIMO	Ant2	6705	76.859	6666.5053	6743.3643	≤320	PASS
11AX80MIMO	Ant1	6785	76.885	6746.5268	6823.4118	≤320	PASS
11AX80MIMO	Ant2	6785	77.169	6746.3398	6823.5088	≤320	PASS
11AX80MIMO	Ant1	6865	76.816	6826.6171	6903.4331	≤320	PASS
11AX80MIMO	Ant2	6865	77.300	6826.3005	6903.6005	≤320	PASS
11AX80MIMO	Ant1	6945	76.882	6906.4705	6983.3525	≤320	PASS
11AX80MIMO	Ant2	6945	77.297	6906.2617	6983.5587	≤320	PASS
11AX80MIMO	Ant1	7025	76.733	6986.5692	7063.3022	≤320	PASS
11AX80MIMO	Ant2	7025	77.145	6986.2995	7063.4445	≤320	PASS

11AX20MIMO-Ant1-5955-PASS

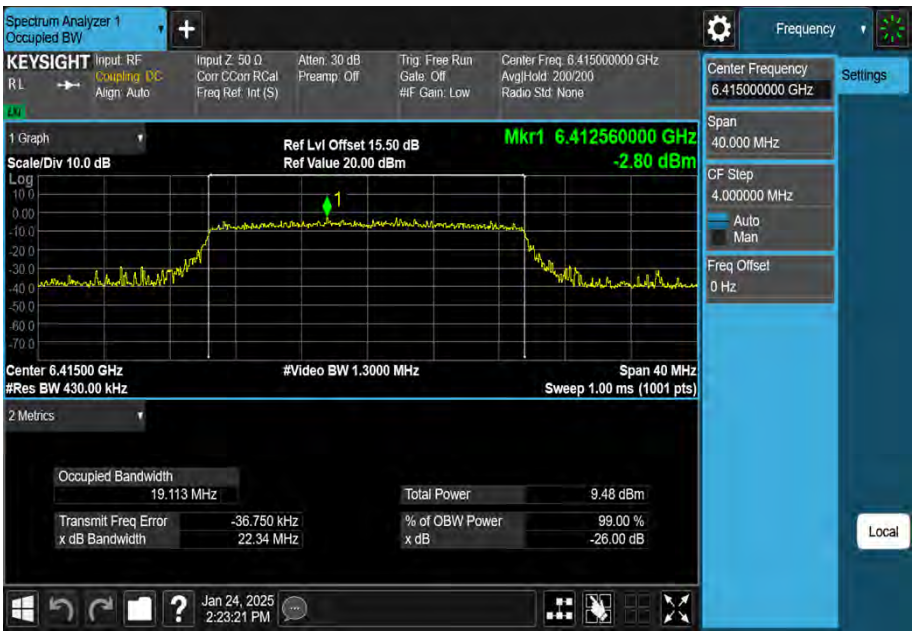
11AX20MIMO-Ant2-5955-PASS



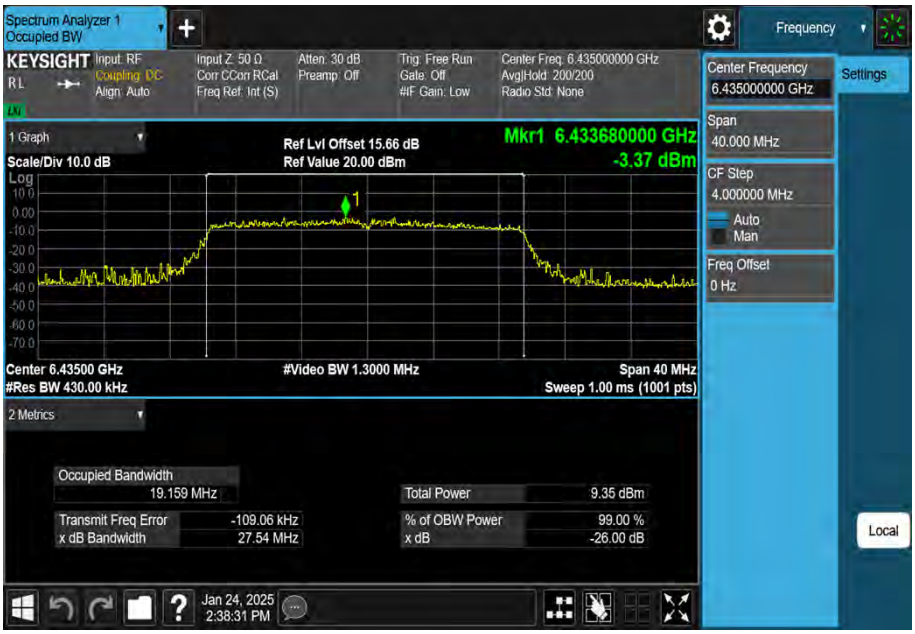
11AX20MIMO-Ant1-6175-PASS

11AX20MIMO-Ant2-6175-PASS

11AX20MIMO-Ant1-6415-PASS



11AX20MIMO-Ant2-6415-PASS



11AX20MIMO-Ant1-6435-PASS

11AX20MIMO-Ant2-6435-PASS

11AX20MIMO-Ant1-6475-PASS

11AX20MIMO-Ant2-6475-PASS

11AX20MIMO-Ant1-6515-PASS

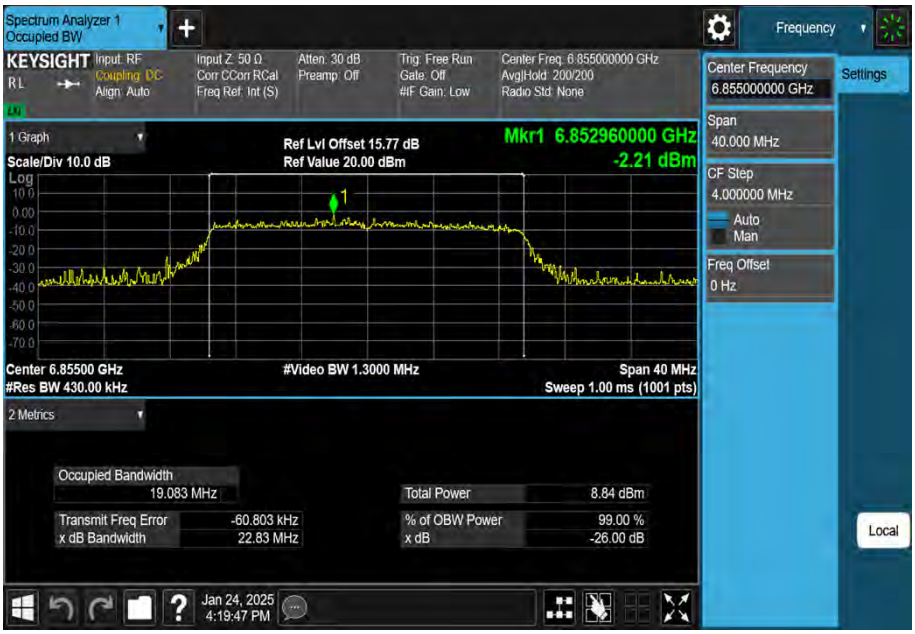
11AX20MIMO-Ant2-6515-PASS

11AX20MIMO-Ant1-6535-PASS

11AX20MIMO-Ant2-6535-PASS

11AX20MIMO-Ant1-6695-PASS

11AX20MIMO-Ant2-6695-PASS



11AX20MIMO-Ant1-6855-PASS

11AX20MIMO-Ant2-6855-PASS

11AX20MIMO-Ant1-6875-PASS

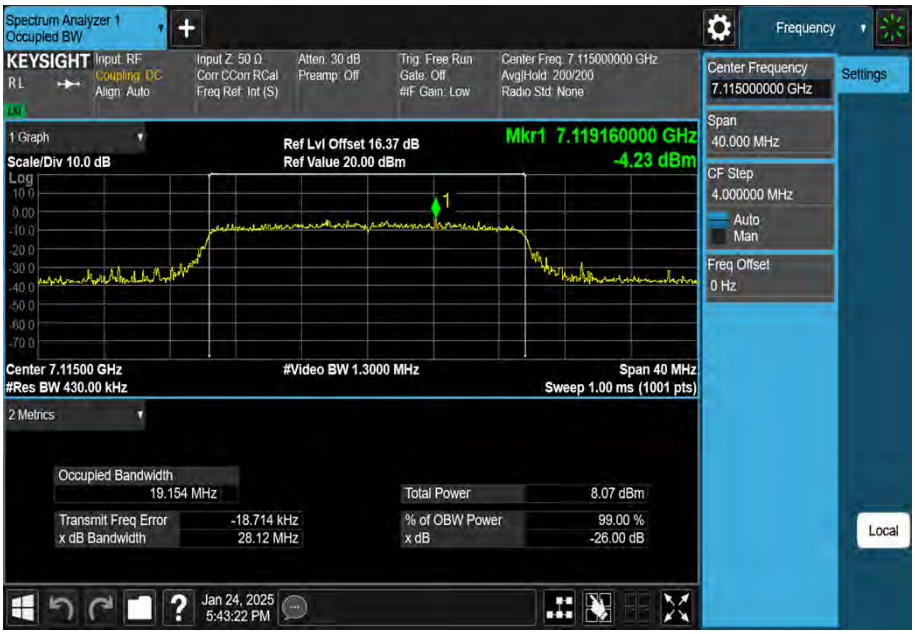
11AX20MIMO-Ant2-6875-PASS

11AX20MIMO-Ant1-6895-PASS

11AX20MIMO-Ant2-6895-PASS

11AX20MIMO-Ant1-6995-PASS

11AX20MIMO-Ant2-6995-PASS



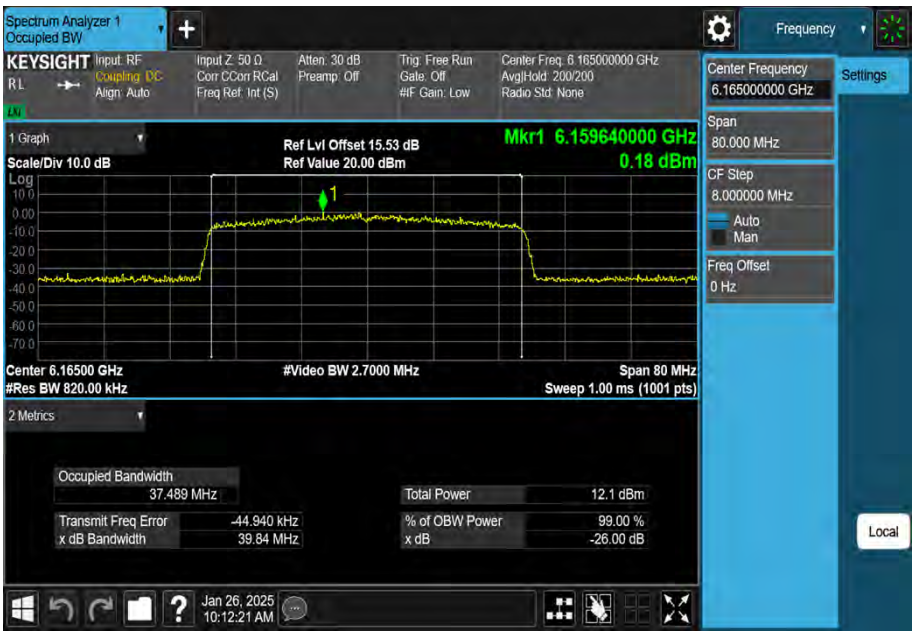
11AX20MIMO-Ant1-7115-PASS

11AX20MIMO-Ant2-7115-PASS

11AX40MIMO-Ant1-5965-PASS

11AX40MIMO-Ant2-5965-PASS

11AX40MIMO-Ant1-6165-PASS



11AX40MIMO-Ant2-6165-PASS

11AX40MIMO-Ant1-6405-PASS

11AX40MIMO-Ant2-6405-PASS

11AX40MIMO-Ant1-6445-PASS

11AX40MIMO-Ant2-6445-PASS

11AX40MIMO-Ant1-6485-PASS

11AX40MIMO-Ant2-6485-PASS

11AX40MIMO-Ant1-6525-PASS

11AX40MIMO-Ant2-6525-PASS

11AX40MIMO-Ant1-6565-PASS

11AX40MIMO-Ant2-6565-PASS

11AX40MIMO-Ant1-6685-PASS

11AX40MIMO-Ant2-6685-PASS

11AX40MIMO-Ant1-6845-PASS

11AX40MIMO-Ant2-6845-PASS

11AX40MIMO-Ant1-6885-PASS

11AX40MIMO-Ant2-6885-PASS

11AX40MIMO-Ant1-6925-PASS

11AX40MIMO-Ant2-6925-PASS

11AX40MIMO-Ant1-6965-PASS

11AX40MIMO-Ant2-6965-PASS

11AX40MIMO-Ant1-7085-PASS

11AX40MIMO-Ant2-7085-PASS

11AX80MIMO-Ant1-5985-PASS

11AX80MIMO-Ant2-5985-PASS

11AX80MIMO-Ant1-6145-PASS

11AX80MIMO-Ant2-6145-PASS

11AX80MIMO-Ant1-6385-PASS

11AX80MIMO-Ant2-6385-PASS

11AX80MIMO-Ant1-6465-PASS

11AX80MIMO-Ant2-6465-PASS

11AX80MIMO-Ant1-6545-PASS

11AX80MIMO-Ant2-6545-PASS

11AX80MIMO-Ant1-6625-PASS

11AX80MIMO-Ant2-6625-PASS

11AX80MIMO-Ant1-6705-PASS

11AX80MIMO-Ant2-6705-PASS

11AX80MIMO-Ant1-6785-PASS

11AX80MIMO-Ant2-6785-PASS

11AX80MIMO-Ant1-6865-PASS

11AX80MIMO-Ant2-6865-PASS

11AX80MIMO-Ant1-6945-PASS

11AX80MIMO-Ant2-6945-PASS

11AX80MIMO-Ant1-7025-PASS

11AX80MIMO-Ant2-7025-PASS

3.2 Transmitter power

3.2.1 Limit

The following limits shall apply to low-power client devices:

a. the maximum e.i.r.p. spectral density shall not exceed -1dBm/MHz and

b. the maximum e.i.r.p. over the 5925-7125 MHz frequency band shall not exceed 24dBm.

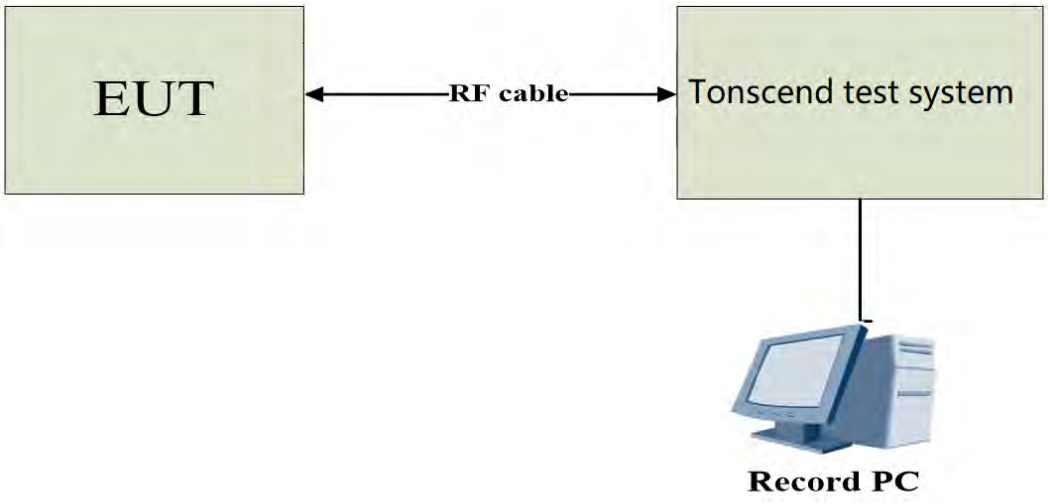
3.2.2 Test Procedure

Test Method	
●Conducted Measurement	○Radiated Measurement
Test Channels	
●Lowest, Middle and Highest Channel	○ Lowest and Highest Channel
Environmental conditions	
●Normal	○Normal and Extreme
Note:●:Test ○:No Test	

a) The EUT was directly connected to the Tonscent test system.

b) Test was performed in accordance with method of FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.

3.2.3 Test Setup



3.2.4 Table of Parameters of Text Software Setting

During testing channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product.

Power Level Setting defined by Manufacturer					
QATool_Dbg.exe					
Test Mode	Frequency(MHz)	Power Setting	Test Mode	Frequency(MHz)	Power Setting
11ax-HE20	5955	1	11ax-HE40	5965	3
	6175	1		6165	3
	6415	1		6405	3
	6435	1		6445	3
	6475	1		6485	3
	6515	1		6525	4
	6535	0		6565	3
	6695	0		6685	3
	6855	2		6845	3
	6875	1		6885	3
	6895	1		6925	3
	6995	1		6965	4
	7115	2		7085	4
11ax-HE80	5985	7	--	--	--
	6145	7		--	--
	6385	7		--	--
	6465	7		--	--
	6545	7		--	--
	6625	7		--	--
	6705	7		--	--
	6785	7		--	--
	6865	7		--	--
	6945	7		--	--
	7025	7		--	--

3.2.5 Test Result

Test Mode	Antenna	Frequency [MHz]	Result [dBm]	Gain [dBi]	EIRP [dBm]	EIRP Limit [dBm]	Verdict
11AX20MIMO	Ant1	5955	-2.59	4.65	2.07	≤24.00	PASS
11AX20MIMO	Ant2	5955	-2.34	4.54	2.20	≤24.00	PASS
11AX20MIMO	total	5955	0.55	7.61	8.16	≤24.00	PASS
11AX20MIMO	Ant2	6175	-2.06	4.54	2.48	≤24.00	PASS
11AX20MIMO	total	6175	1.09	7.61	8.70	≤24.00	PASS
11AX20MIMO	Ant1	6175	-1.79	4.65	2.86	≤24.00	PASS
11AX20MIMO	Ant1	6415	-1.85	4.65	2.80	≤24.00	PASS
11AX20MIMO	Ant2	6415	-2.41	4.54	2.13	≤24.00	PASS
11AX20MIMO	total	6415	0.89	7.61	8.50	≤24.00	PASS
11AX20MIMO	Ant1	6435	-1.64	4.65	3.01	≤24.00	PASS
11AX20MIMO	Ant2	6435	-2.60	4.54	1.94	≤24.00	PASS
11AX20MIMO	total	6435	0.92	7.61	8.53	≤24.00	PASS
11AX20MIMO	Ant1	6475	-2.01	4.65	2.64	≤24.00	PASS
11AX20MIMO	Ant2	6475	-2.90	4.54	1.64	≤24.00	PASS
11AX20MIMO	total	6475	0.58	7.61	8.19	≤24.00	PASS
11AX20MIMO	Ant1	6515	-1.69	4.65	2.96	≤24.00	PASS
11AX20MIMO	Ant2	6515	-2.34	4.54	2.20	≤24.00	PASS
11AX20MIMO	total	6515	1.01	7.61	8.62	≤24.00	PASS
11AX20MIMO	Ant1	6535	-2.13	4.65	2.52	≤24.00	PASS
11AX20MIMO	Ant2	6535	-2.68	4.54	1.86	≤24.00	PASS
11AX20MIMO	total	6535	0.61	7.61	8.22	≤24.00	PASS
11AX20MIMO	Ant1	6695	-0.44	4.65	4.21	≤24.00	PASS
11AX20MIMO	Ant2	6695	-1.16	4.54	3.38	≤24.00	PASS
11AX20MIMO	total	6695	2.23	7.61	9.84	≤24.00	PASS
11AX20MIMO	Ant1	6855	-2.11	4.65	2.54	≤24.00	PASS
11AX20MIMO	Ant2	6855	-3.18	4.54	1.36	≤24.00	PASS
11AX20MIMO	total	6855	0.40	7.61	8.01	≤24.00	PASS
11AX20MIMO	Ant1	6875	-2.02	4.65	2.63	≤24.00	PASS
11AX20MIMO	Ant2	6875	-2.92	4.54	1.62	≤24.00	PASS
11AX20MIMO	total	6875	0.56	7.61	8.17	≤24.00	PASS
11AX20MIMO	Ant1	6895	-2.00	4.65	2.65	≤24.00	PASS
11AX20MIMO	Ant2	6895	-2.61	4.54	1.93	≤24.00	PASS
11AX20MIMO	total	6895	0.72	7.61	8.33	≤24.00	PASS
11AX20MIMO	Ant1	6995	-2.92	4.65	1.73	≤24.00	PASS
11AX20MIMO	Ant2	6995	-2.28	4.54	2.26	≤24.00	PASS
11AX20MIMO	total	6995	0.42	7.61	8.03	≤24.00	PASS
11AX20MIMO	Ant1	7115	-2.66	4.65	1.99	≤24.00	PASS
11AX20MIMO	Ant2	7115	-2.77	4.54	1.77	≤24.00	PASS

11AX20MIMO	total	7115	0.30	7.61	7.91	≤24.00	PASS
11AX40MIMO	Ant1	5965	0.27	4.65	4.92	≤24.00	PASS
11AX40MIMO	Ant2	5965	0.88	4.54	5.42	≤24.00	PASS
11AX40MIMO	total	5965	3.60	7.61	11.21	≤24.00	PASS
11AX40MIMO	Ant1	6165	-0.57	4.65	4.08	≤24.00	PASS
11AX40MIMO	Ant2	6165	-0.14	4.54	4.40	≤24.00	PASS
11AX40MIMO	total	6165	2.66	7.61	10.27	≤24.00	PASS
11AX40MIMO	Ant1	6405	-0.25	4.65	4.40	≤24.00	PASS
11AX40MIMO	Ant2	6405	-0.48	4.54	4.06	≤24.00	PASS
11AX40MIMO	total	6405	2.65	7.61	10.26	≤24.00	PASS
11AX40MIMO	Ant1	6445	-0.89	4.65	3.76	≤24.00	PASS
11AX40MIMO	Ant2	6445	-0.25	4.54	4.29	≤24.00	PASS
11AX40MIMO	total	6445	2.45	7.61	10.06	≤24.00	PASS
11AX40MIMO	Ant1	6485	-1.06	4.65	3.59	≤24.00	PASS
11AX40MIMO	Ant2	6485	-0.34	4.54	4.20	≤24.00	PASS
11AX40MIMO	total	6485	2.33	7.61	9.94	≤24.00	PASS
11AX40MIMO	Ant1	6525	1.20	4.65	5.85	≤24.00	PASS
11AX40MIMO	Ant2	6525	1.38	4.54	5.92	≤24.00	PASS
11AX40MIMO	total	6525	4.30	7.61	11.91	≤24.00	PASS
11AX40MIMO	Ant1	6565	0.31	4.65	4.96	≤24.00	PASS
11AX40MIMO	Ant2	6565	0.21	4.54	4.75	≤24.00	PASS
11AX40MIMO	total	6565	3.27	7.61	10.88	≤24.00	PASS
11AX40MIMO	Ant1	6685	-0.10	4.65	4.55	≤24.00	PASS
11AX40MIMO	Ant2	6685	-0.35	4.54	4.19	≤24.00	PASS
11AX40MIMO	total	6685	2.79	7.61	10.40	≤24.00	PASS
11AX40MIMO	Ant1	6845	-0.98	4.65	3.67	≤24.00	PASS
11AX40MIMO	Ant2	6845	-0.77	4.54	3.77	≤24.00	PASS
11AX40MIMO	total	6845	2.14	7.61	9.75	≤24.00	PASS
11AX40MIMO	Ant1	6885	-1.02	4.65	3.63	≤24.00	PASS
11AX40MIMO	Ant2	6885	-0.82	4.54	3.72	≤24.00	PASS
11AX40MIMO	total	6885	2.09	7.61	9.70	≤24.00	PASS
11AX40MIMO	Ant1	6925	-0.14	4.65	4.51	≤24.00	PASS
11AX40MIMO	Ant2	6925	-0.68	4.54	3.86	≤24.00	PASS
11AX40MIMO	total	6925	2.61	7.61	10.22	≤24.00	PASS
11AX40MIMO	Ant1	6965	0.33	4.65	4.98	≤24.00	PASS
11AX40MIMO	Ant2	6965	0.67	4.54	5.21	≤24.00	PASS
11AX40MIMO	total	6965	3.51	7.61	11.12	≤24.00	PASS
11AX40MIMO	Ant1	7085	-0.85	4.65	3.80	≤24.00	PASS
11AX40MIMO	Ant2	7085	0.05	4.54	4.59	≤24.00	PASS
11AX40MIMO	total	7085	2.63	7.61	10.24	≤24.00	PASS
11AX80MIMO	Ant1	5985	2.84	4.65	7.49	≤24.00	PASS
11AX80MIMO	Ant2	5985	3.72	4.54	8.26	≤24.00	PASS
11AX80MIMO	total	5985	6.31	7.61	13.92	≤24.00	PASS

11AX80MIMO	Ant1	6145	3.41	4.65	8.06	≤24.00	PASS
11AX80MIMO	Ant2	6145	3.89	4.54	8.43	≤24.00	PASS
11AX80MIMO	total	6145	6.67	7.61	14.28	≤24.00	PASS
11AX80MIMO	Ant1	6385	3.55	4.65	8.20	≤24.00	PASS
11AX80MIMO	Ant2	6385	3.55	4.54	8.09	≤24.00	PASS
11AX80MIMO	total	6385	6.56	7.61	14.17	≤24.00	PASS
11AX80MIMO	Ant1	6465	3.47	4.65	8.12	≤24.00	PASS
11AX80MIMO	Ant2	6465	3.06	4.54	7.60	≤24.00	PASS
11AX80MIMO	total	6465	6.28	7.61	13.89	≤24.00	PASS
11AX80MIMO	Ant1	6545	3.86	4.65	8.51	≤24.00	PASS
11AX80MIMO	Ant2	6545	3.88	4.54	8.42	≤24.00	PASS
11AX80MIMO	total	6545	6.88	7.61	14.49	≤24.00	PASS
11AX80MIMO	Ant1	6625	4.15	4.65	8.80	≤24.00	PASS
11AX80MIMO	Ant2	6625	3.81	4.54	8.35	≤24.00	PASS
11AX80MIMO	total	6625	6.99	7.61	14.60	≤24.00	PASS
11AX80MIMO	Ant1	6705	3.79	4.65	8.44	≤24.00	PASS
11AX80MIMO	Ant2	6705	3.77	4.54	8.31	≤24.00	PASS
11AX80MIMO	total	6705	6.79	7.61	14.40	≤24.00	PASS
11AX80MIMO	Ant1	6785	3.16	4.65	7.81	≤24.00	PASS
11AX80MIMO	Ant2	6785	2.99	4.54	7.53	≤24.00	PASS
11AX80MIMO	total	6785	6.09	7.61	13.70	≤24.00	PASS
11AX80MIMO	Ant1	6865	3.01	4.65	7.66	≤24.00	PASS
11AX80MIMO	Ant2	6865	3.05	4.54	7.59	≤24.00	PASS
11AX80MIMO	total	6865	6.04	7.61	13.65	≤24.00	PASS
11AX80MIMO	Ant1	6945	3.72	4.65	8.37	≤24.00	PASS
11AX80MIMO	Ant2	6945	3.90	4.54	8.44	≤24.00	PASS
11AX80MIMO	total	6945	6.82	7.61	14.43	≤24.00	PASS
11AX80MIMO	Ant1	7025	2.83	4.65	7.48	≤24.00	PASS
11AX80MIMO	Ant2	7025	3.49	4.54	8.03	≤24.00	PASS
11AX80MIMO	total	7025	6.18	7.61	13.79	≤24.00	PASS

Note：The Duty Cycle Factor is compensated in the graph.

Unequal antenna gains, with equal transmit powers. For antenna gains given by G_1, G_2, …, G_N dBi If transmit signals are correlated, then Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + \ldots + 10^{GN/20})^2 / N_{ANT}$] dBi [Note the “20”s in the denominator of each exponent and the square of the sum of terms; the object is to combine the signal levels coherently.]
Directional gain = 10log[$(10^{4.65/20} + 10^{4.54/20})^2/N_{ANT}$] dBi=7.61

3.3 Power Spectral Density Measurement

3.3.1 Limit

The following limits shall apply to low-power client devices:

a. the maximum e.i.r.p. spectral density shall not exceed -1dBm/MHz.

3.3.2 Test Procedure

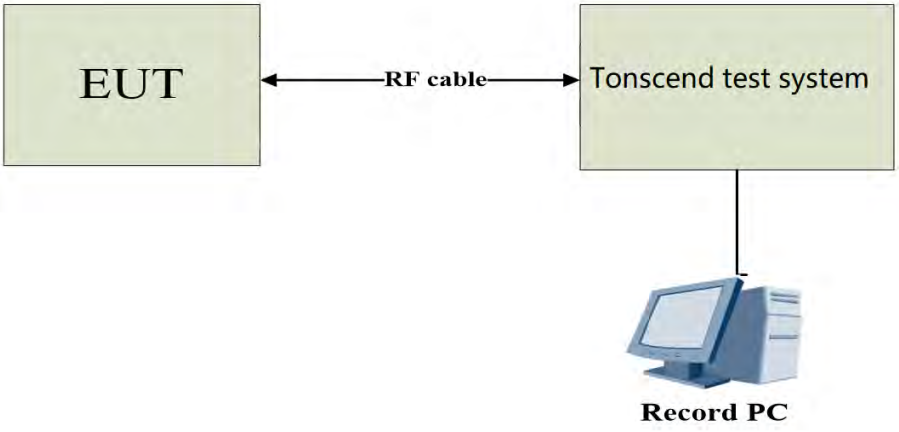
Test Method	
●Conducted Measurement	○Radiated Measurement
Test Channels	
●Lowest, Middle and Highest Channel	○ Lowest and Highest Channel
Environmental conditions	
●Normal	○Normal and Extreme
Note:●:Test ○:No Test	

The EUT was directly connected to the tonscend test system

3.3.3 Test Setting

1. Analyzer was set to the center frequency of the UNII channel under investigation
2. Span was set to encompass the entire 26dB EBW of the signal.
3. RBW = 1MHz
4. VBW = 3MHz
5. Number of sweep points ≥2 ×(span /RBW)
6. Detector = power averaging (Average)
7. Sweep time = auto
8. Trigger = free run
9. Use the peak search function on the instrument to find the peak of the spectrum and record its value.
10. Add 10*log(1/x), where x is the duty cycle, to the measured power in order to compute the average power during the actual transmission times (because the measurement represents an average over both the on and off times of the transmission). For example, add 10*log(1/0.25) = 6 dB if the duty cycle is 25 percent

3.3.4 Test Setup



3.3.5 Result

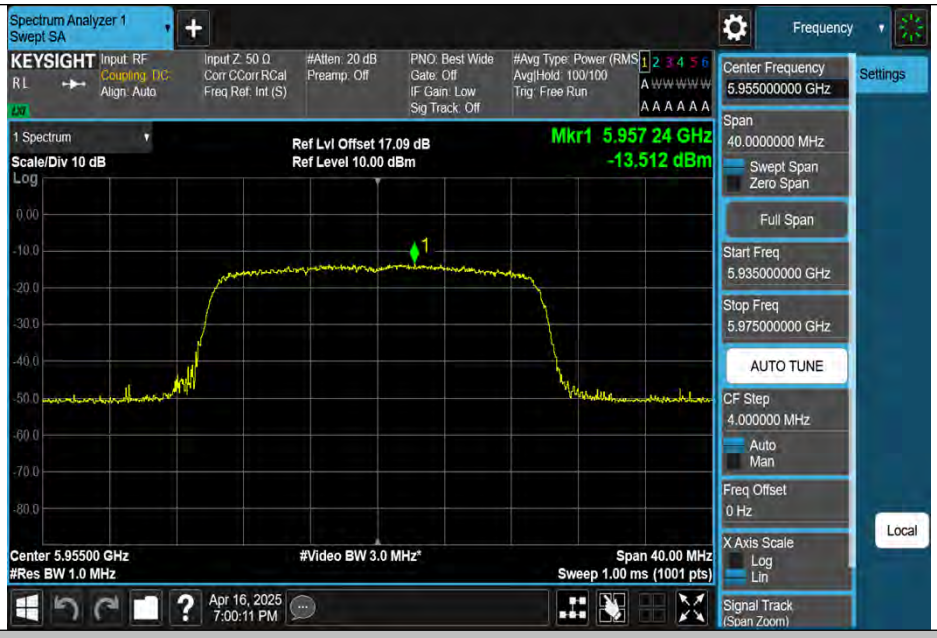
TestMode	Antenna	Frequency [MHz]	Result [dBm/MHz]	Gain [dBi]	EIRP PSD (dBm/MHz)	Limit [dBm/MHz]	Verdict
11AX20MIMO	Ant1	5955	-13.51	4.65	-8.86	≤-1.00	PASS
11AX20MIMO	Ant2	5955	-13.26	4.54	-8.72	≤-1.00	PASS
11AX20MIMO	total	5955	-10.37	7.61	-2.76	≤-1.00	PASS
11AX20MIMO	Ant1	6175	-13.23	4.65	-8.58	≤-1.00	PASS
11AX20MIMO	Ant2	6175	-12.64	4.54	-8.1	≤-1.00	PASS
11AX20MIMO	total	6175	-9.91	7.61	-2.3	≤-1.00	PASS
11AX20MIMO	Ant1	6415	-12.33	4.65	-7.68	≤-1.00	PASS
11AX20MIMO	Ant2	6415	-13.15	4.54	-8.61	≤-1.00	PASS
11AX20MIMO	total	6415	-9.71	7.61	-2.1	≤-1.00	PASS
11AX20MIMO	Ant1	6435	-13.27	4.65	-8.62	≤-1.00	PASS
11AX20MIMO	Ant2	6435	-13.54	4.54	-9.00	≤-1.00	PASS
11AX20MIMO	total	6435	-10.39	7.61	-2.78	≤-1.00	PASS
11AX20MIMO	Ant1	6475	-12.79	4.65	-8.14	≤-1.00	PASS
11AX20MIMO	Ant2	6475	-13.53	4.54	-8.99	≤-1.00	PASS
11AX20MIMO	total	6475	-10.13	7.61	-2.52	≤-1.00	PASS
11AX20MIMO	Ant1	6515	-12.62	4.65	-7.97	≤-1.00	PASS
11AX20MIMO	Ant2	6515	-12.87	4.54	-8.33	≤-1.00	PASS
11AX20MIMO	total	6515	-9.73	7.61	-2.12	≤-1.00	PASS
11AX20MIMO	Ant1	6535	-12.24	4.65	-7.59	≤-1.00	PASS
11AX20MIMO	Ant2	6535	-12.68	4.54	-8.14	≤-1.00	PASS
11AX20MIMO	total	6535	-9.44	7.61	-1.83	≤-1.00	PASS
11AX20MIMO	Ant1	6695	-11.58	4.65	-6.93	≤-1.00	PASS
11AX20MIMO	Ant2	6695	-11.79	4.54	-7.25	≤-1.00	PASS
11AX20MIMO	total	6695	-8.67	7.61	-1.06	≤-1.00	PASS
11AX20MIMO	Ant2	6855	-13.25	4.65	-8.6	≤-1.00	PASS
11AX20MIMO	total	6855	-10.03	4.54	-5.49	≤-1.00	PASS
11AX20MIMO	Ant1	6855	-12.84	7.61	-5.23	≤-1.00	PASS
11AX20MIMO	Ant1	6875	-13.06	4.65	-8.41	≤-1.00	PASS
11AX20MIMO	Ant2	6875	-13.93	4.54	-9.39	≤-1.00	PASS
11AX20MIMO	total	6875	-10.46	7.61	-2.85	≤-1.00	PASS
11AX20MIMO	Ant1	6895	-13.22	4.65	-8.57	≤-1.00	PASS
11AX20MIMO	Ant2	6895	-12.86	4.54	-8.32	≤-1.00	PASS
11AX20MIMO	total	6895	-10.03	7.61	-2.42	≤-1.00	PASS
11AX20MIMO	Ant1	6995	-13.78	4.65	-9.13	≤-1.00	PASS
11AX20MIMO	Ant2	6995	-12.53	4.54	-7.99	≤-1.00	PASS
11AX20MIMO	total	6995	-10.10	7.61	-2.49	≤-1.00	PASS
11AX20MIMO	Ant1	7115	-12.58	4.65	-7.93	≤-1.00	PASS
11AX20MIMO	Ant2	7115	-13.65	4.54	-9.11	≤-1.00	PASS
11AX20MIMO	total	7115	-10.07	7.61	-2.46	≤-1.00	PASS

11AX40MIMO	Ant1	5965	-13.66	4.65	-9.01	≤-1.00	PASS
11AX40MIMO	Ant2	5965	-12.30	4.54	-7.76	≤-1.00	PASS
11AX40MIMO	total	5965	-9.92	7.61	-2.31	≤-1.00	PASS
11AX40MIMO	Ant1	6165	-13.56	4.65	-8.91	≤-1.00	PASS
11AX40MIMO	Ant2	6165	-13.23	4.54	-8.69	≤-1.00	PASS
11AX40MIMO	total	6165	-10.38	7.61	-2.77	≤-1.00	PASS
11AX40MIMO	Ant2	6405	-13.42	4.65	-8.77	≤-1.00	PASS
11AX40MIMO	total	6405	-10.48	4.54	-5.94	≤-1.00	PASS
11AX40MIMO	Ant1	6405	-13.57	7.61	-5.96	≤-1.00	PASS
11AX40MIMO	Ant1	6445	-13.19	4.65	-8.54	≤-1.00	PASS
11AX40MIMO	Ant2	6445	-13.95	4.54	-9.41	≤-1.00	PASS
11AX40MIMO	total	6445	-10.54	7.61	-2.93	≤-1.00	PASS
11AX40MIMO	Ant1	6485	-14.06	4.65	-9.41	≤-1.00	PASS
11AX40MIMO	Ant2	6485	-13.18	4.54	-8.64	≤-1.00	PASS
11AX40MIMO	total	6485	-10.59	7.61	-2.98	≤-1.00	PASS
11AX40MIMO	Ant1	6525	-12.25	4.65	-7.6	≤-1.00	PASS
11AX40MIMO	Ant2	6525	-11.79	4.54	-7.25	≤-1.00	PASS
11AX40MIMO	total	6525	-9.00	7.61	-1.39	≤-1.00	PASS
11AX40MIMO	Ant1	6565	-12.32	4.65	-7.67	≤-1.00	PASS
11AX40MIMO	Ant2	6565	-12.16	4.54	-7.62	≤-1.00	PASS
11AX40MIMO	total	6565	-9.23	7.61	-1.62	≤-1.00	PASS
11AX40MIMO	Ant1	6685	-12.72	4.65	-8.07	≤-1.00	PASS
11AX40MIMO	Ant2	6685	-12.77	4.54	-8.23	≤-1.00	PASS
11AX40MIMO	total	6685	-9.73	7.61	-2.12	≤-1.00	PASS
11AX40MIMO	Ant1	6845	-13.52	4.65	-8.87	≤-1.00	PASS
11AX40MIMO	Ant2	6845	-13.68	4.54	-9.14	≤-1.00	PASS
11AX40MIMO	total	6845	-10.59	7.61	-2.98	≤-1.00	PASS
11AX40MIMO	Ant1	6885	-13.25	4.65	-8.6	≤-1.00	PASS
11AX40MIMO	Ant2	6885	-13.47	4.54	-8.93	≤-1.00	PASS
11AX40MIMO	total	6885	-10.35	7.61	-2.74	≤-1.00	PASS
11AX40MIMO	Ant1	6925	-13.52	4.65	-8.87	≤-1.00	PASS
11AX40MIMO	Ant2	6925	-13.23	4.54	-8.69	≤-1.00	PASS
11AX40MIMO	total	6925	-10.36	7.61	-2.75	≤-1.00	PASS
11AX40MIMO	Ant1	6965	-12.27	4.65	-7.62	≤-1.00	PASS
11AX40MIMO	Ant2	6965	-12.65	4.54	-8.11	≤-1.00	PASS
11AX40MIMO	total	6965	-9.45	7.61	-1.84	≤-1.00	PASS
11AX40MIMO	Ant1	7085	-14.57	4.65	-9.92	≤-1.00	PASS
11AX40MIMO	Ant2	7085	-12.48	4.54	-7.94	≤-1.00	PASS
11AX40MIMO	total	7085	-10.39	7.61	-2.78	≤-1.00	PASS
11AX80MIMO	Ant2	5985	-11.65	4.65	-7	≤-1.00	PASS
11AX80MIMO	total	5985	-9.42	4.54	-4.88	≤-1.00	PASS
11AX80MIMO	Ant1	5985	-13.38	7.61	-5.77	≤-1.00	PASS
11AX80MIMO	Ant1	6145	-13.31	4.65	-8.66	≤-1.00	PASS

11AX80MIMO	Ant2	6145	-11.45	4.54	-6.91	≤-1.00	PASS
11AX80MIMO	total	6145	-9.27	7.61	-1.66	≤-1.00	PASS
11AX80MIMO	Ant1	6385	-12.20	4.65	-7.55	≤-1.00	PASS
11AX80MIMO	Ant2	6385	-11.41	4.54	-6.87	≤-1.00	PASS
11AX80MIMO	total	6385	-8.78	7.61	-1.17	≤-1.00	PASS
11AX80MIMO	Ant1	6465	-12.36	4.65	-7.71	≤-1.00	PASS
11AX80MIMO	Ant2	6465	-13.16	4.54	-8.62	≤-1.00	PASS
11AX80MIMO	total	6465	-9.73	7.61	-2.12	≤-1.00	PASS
11AX80MIMO	Ant1	6545	-12.30	4.65	-7.65	≤-1.00	PASS
11AX80MIMO	Ant2	6545	-11.19	4.54	-6.65	≤-1.00	PASS
11AX80MIMO	total	6545	-8.70	7.61	-1.09	≤-1.00	PASS
11AX80MIMO	Ant2	6625	-11.78	4.65	-7.13	≤-1.00	PASS
11AX80MIMO	total	6625	-8.70	4.54	-4.16	≤-1.00	PASS
11AX80MIMO	Ant1	6625	-11.64	7.61	-4.03	≤-1.00	PASS
11AX80MIMO	Ant1	6705	-11.50	4.65	-6.85	≤-1.00	PASS
11AX80MIMO	Ant2	6705	-12.09	4.54	-7.55	≤-1.00	PASS
11AX80MIMO	total	6705	-8.77	7.61	-1.16	≤-1.00	PASS
11AX80MIMO	Ant1	6785	-12.56	4.65	-7.91	≤-1.00	PASS
11AX80MIMO	Ant2	6785	-13.40	4.54	-8.86	≤-1.00	PASS
11AX80MIMO	total	6785	-9.95	7.61	-2.34	≤-1.00	PASS
11AX80MIMO	Ant1	6865	-13.86	4.65	-9.21	≤-1.00	PASS
11AX80MIMO	Ant2	6865	-12.85	4.54	-8.31	≤-1.00	PASS
11AX80MIMO	total	6865	-10.32	7.61	-2.71	≤-1.00	PASS
11AX80MIMO	Ant1	6945	-12.57	4.65	-7.92	≤-1.00	PASS
11AX80MIMO	Ant2	6945	-12.18	4.54	-7.64	≤-1.00	PASS
11AX80MIMO	total	6945	-9.36	7.61	-1.75	≤-1.00	PASS
11AX80MIMO	Ant1	7025	-12.43	4.65	-7.78	≤-1.00	PASS
11AX80MIMO	Ant2	7025	-13.56	4.54	-9.02	≤-1.00	PASS
11AX80MIMO	total	7025	-9.95	7.61	-2.34	≤-1.00	PASS

Note：1.The Duty Cycle Factor and RBW Factor is compensated in the graph.

Test graph

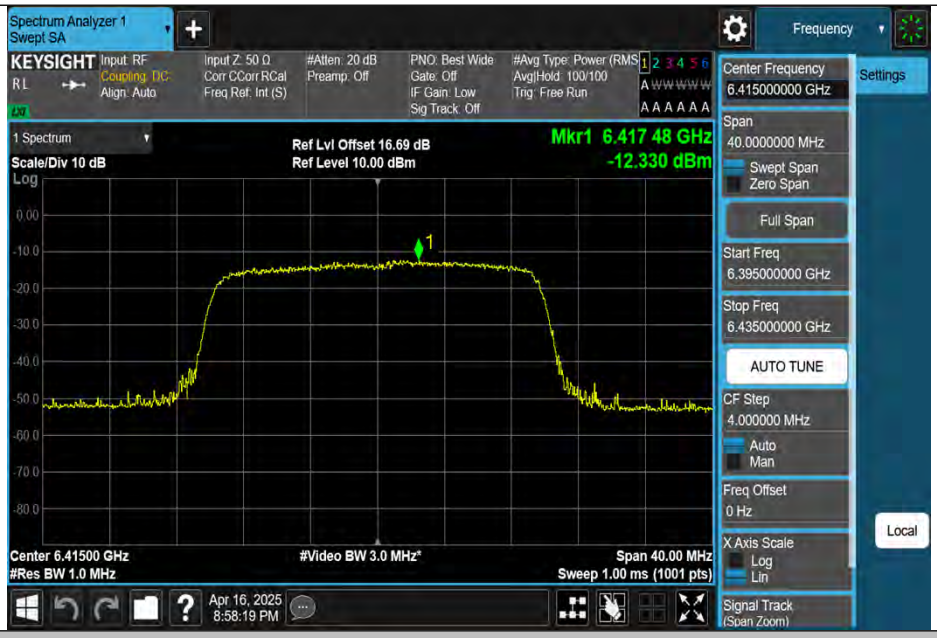


11AX20MIMO-Ant1-5955-PASS

11AX20MIMO-Ant2-5955-PASS

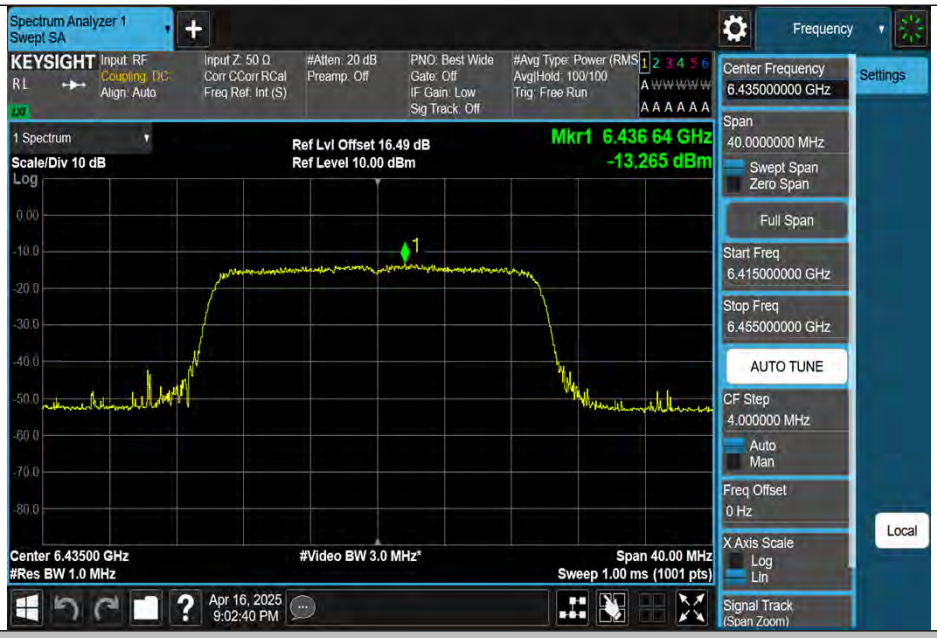
11AX20MIMO-Ant1-6175-PASS

11AX20MIMO-Ant2-6175-PASS



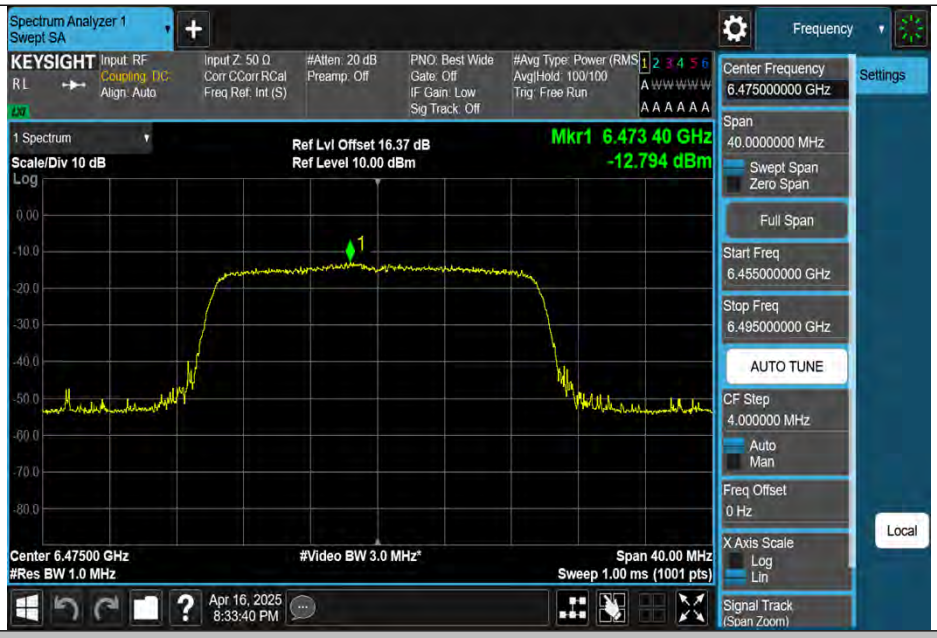
11AX20MIMO-Ant1-6415-PASS

11AX20MIMO-Ant2-6415-PASS



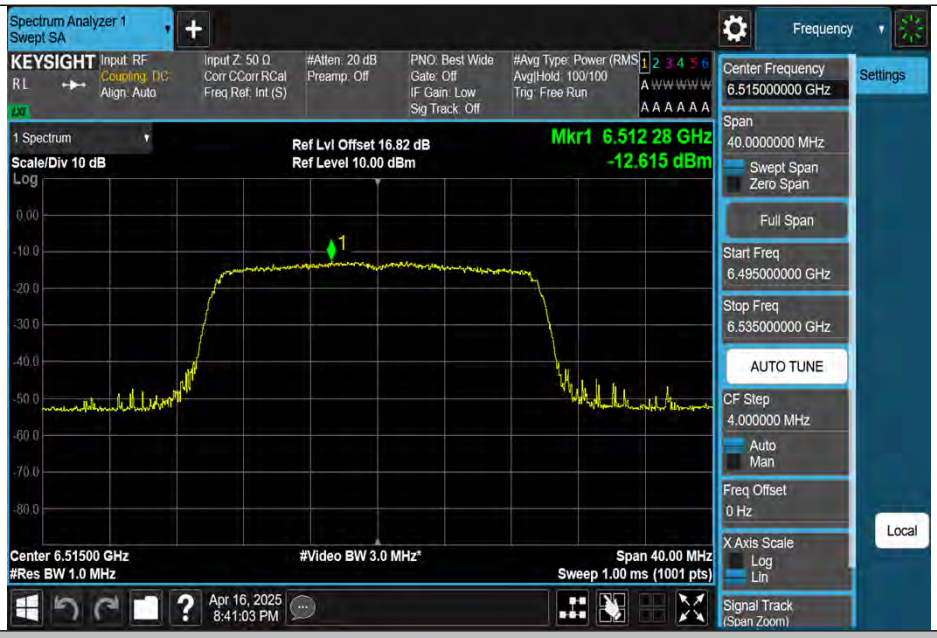
11AX20MIMO-Ant1-6435-PASS

11AX20MIMO-Ant2-6435-PASS



11AX20MIMO-Ant1-6475-PASS

11AX20MIMO-Ant2-6475-PASS



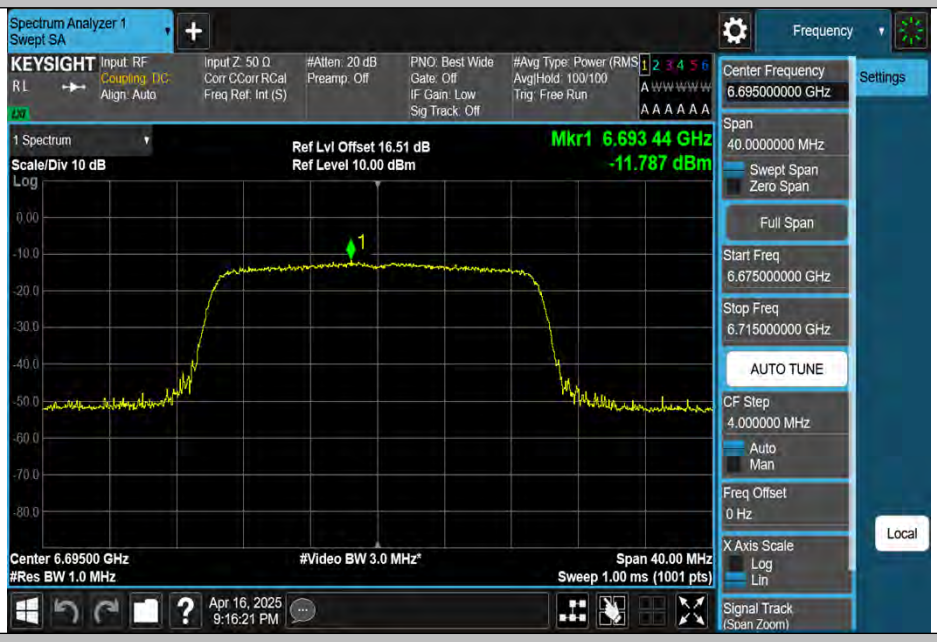
11AX20MIMO-Ant1-6515-PASS

11AX20MIMO-Ant2-6515-PASS

11AX20MIMO-Ant1-6535-PASS

11AX20MIMO-Ant2-6535-PASS

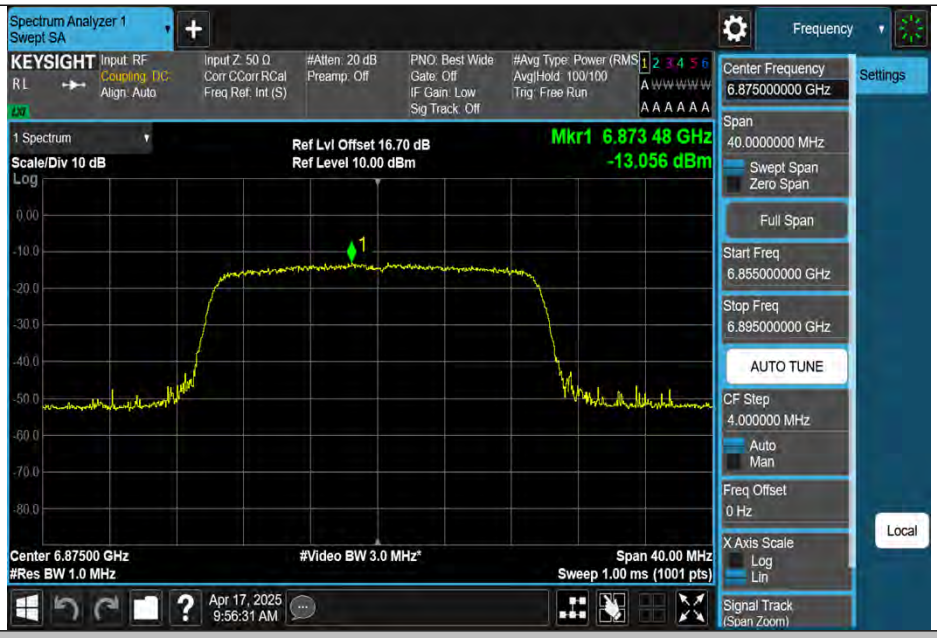
11AX20MIMO-Ant1-6695-PASS



11AX20MIMO-Ant2-6695-PASS

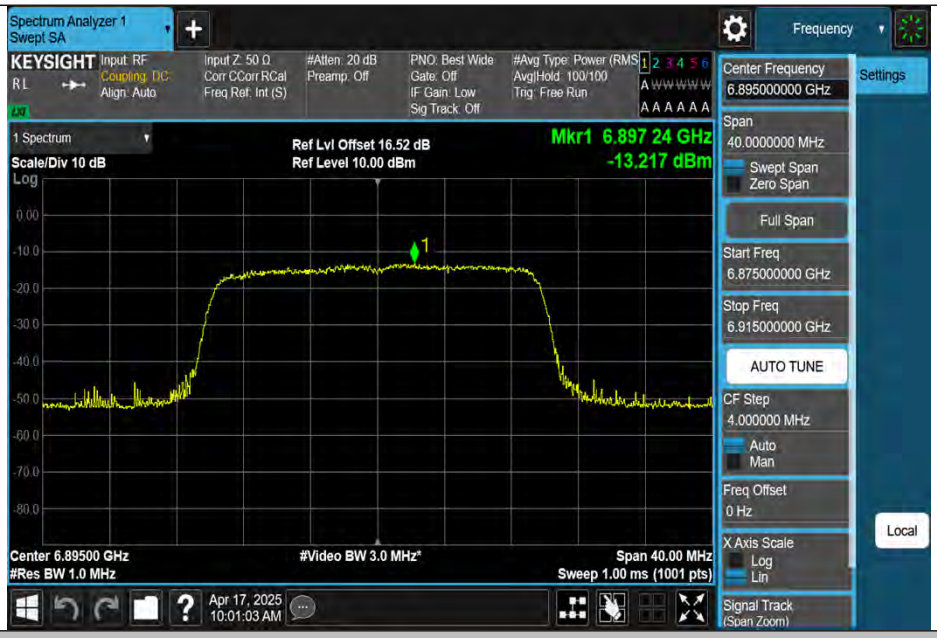
11AX20MIMO-Ant2-6855-PASS

11AX20MIMO-Ant1-6855-PASS



11AX20MIMO-Ant1-6875-PASS

11AX20MIMO-Ant2-6875-PASS



11AX20MIMO-Ant1-6895-PASS

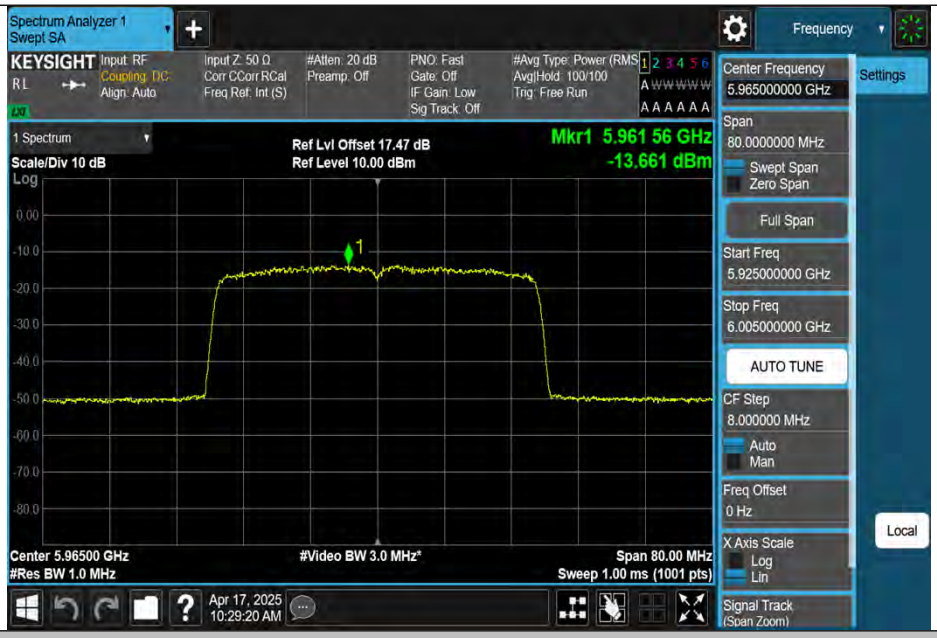
11AX20MIMO-Ant2-6895-PASS

11AX20MIMO-Ant1-6995-PASS

11AX20MIMO-Ant2-6995-PASS

11AX20MIMO-Ant1-7115-PASS

11AX20MIMO-Ant2-7115-PASS



11AX40MIMO-Ant1-5965-PASS

11AX40MIMO-Ant2-5965-PASS

11AX40MIMO-Ant1-6165-PASS

11AX40MIMO-Ant2-6165-PASS