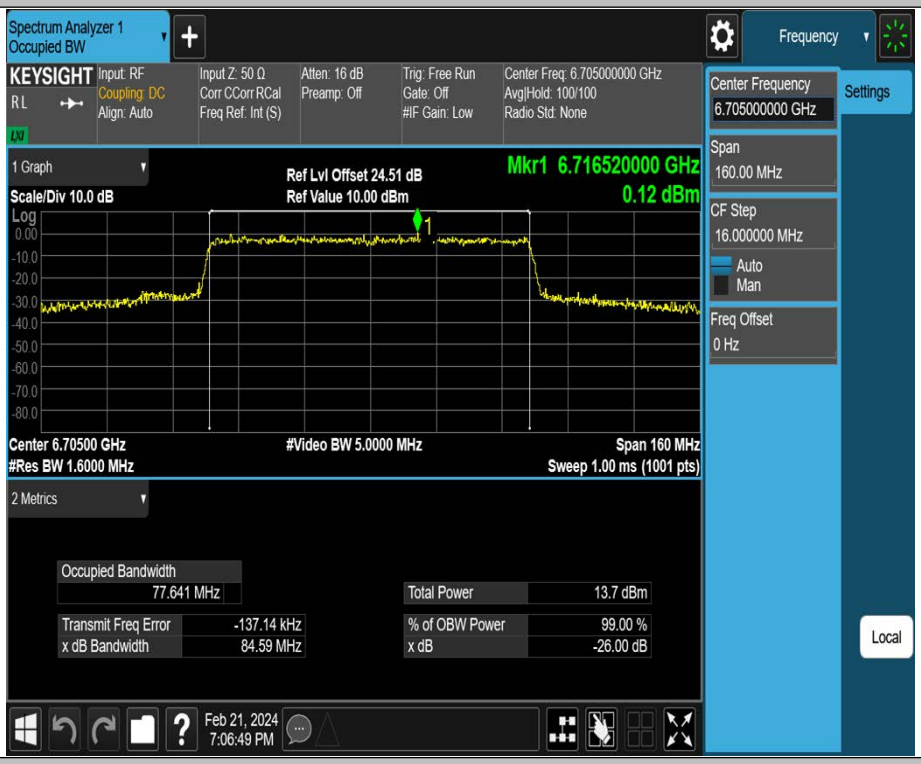
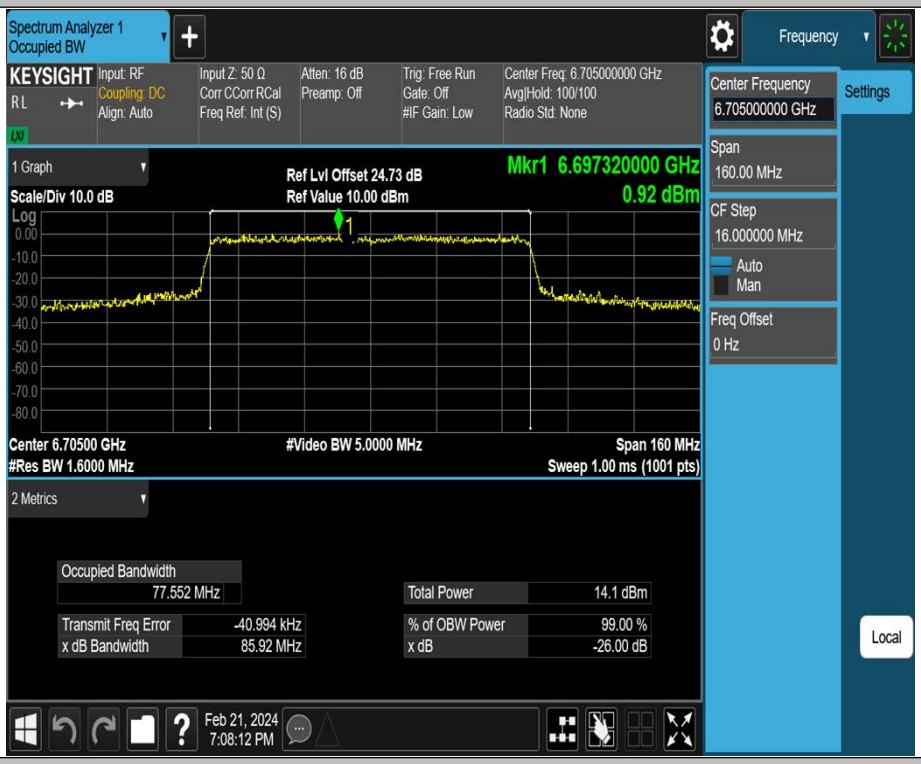
11AX80MIMO_Ant3_6625

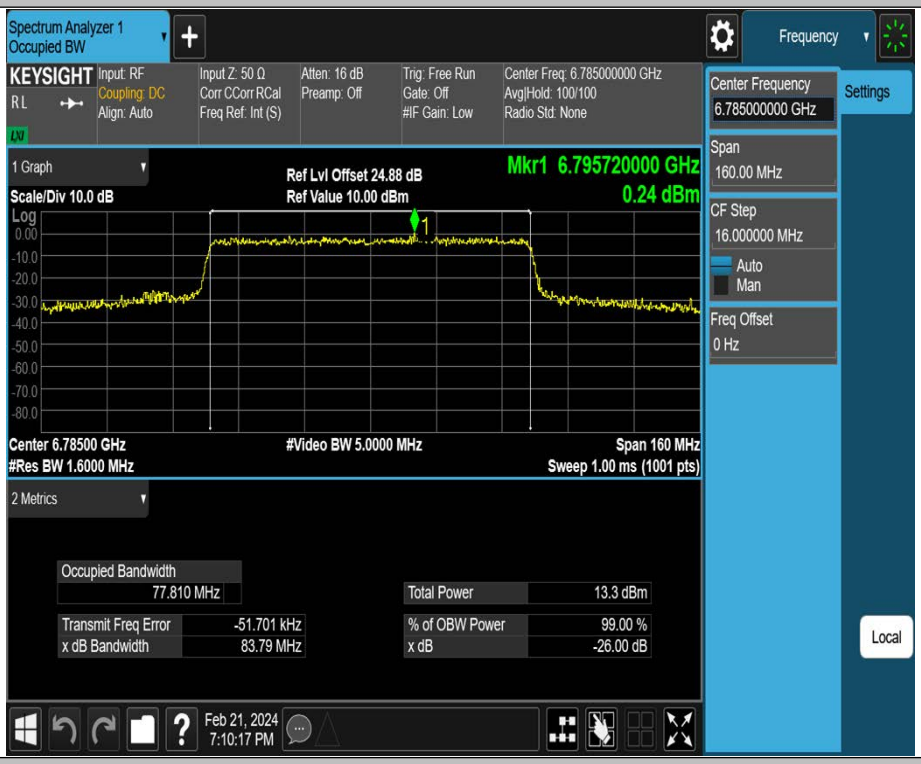
11AX80MIMO_Ant4_6625

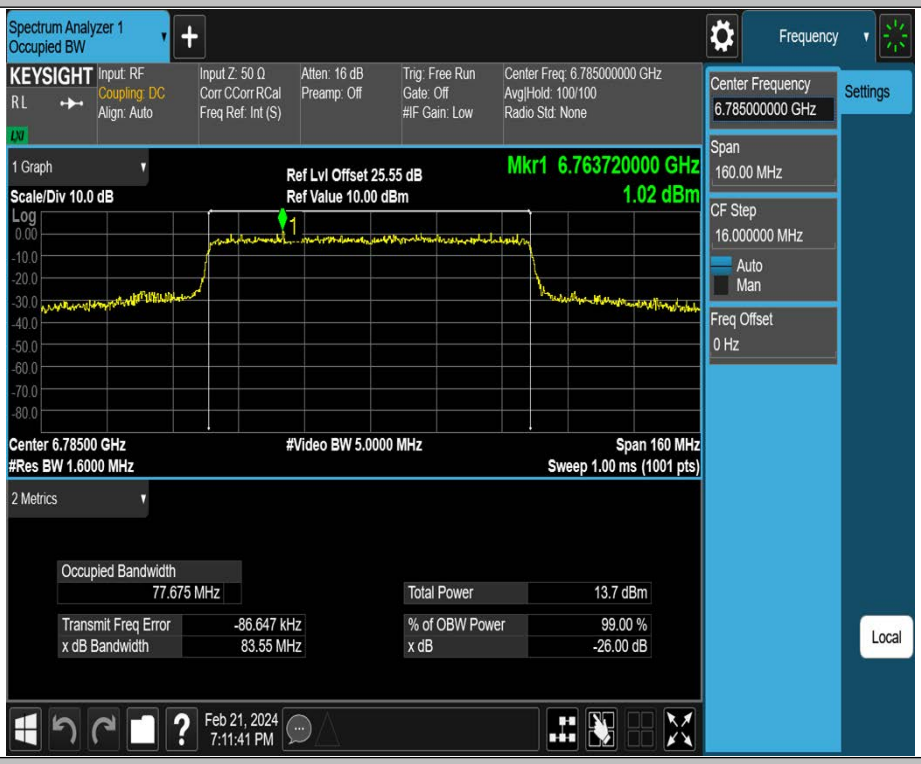

11AX80MIMO_Ant1_6705

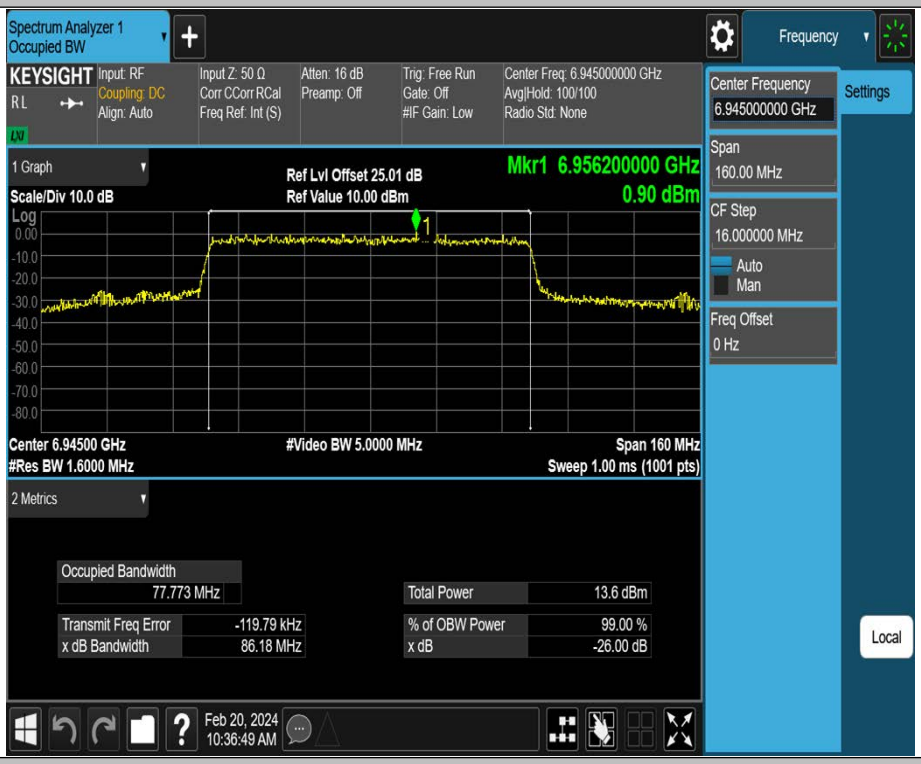


11AX80MIMO_Ant2_6705

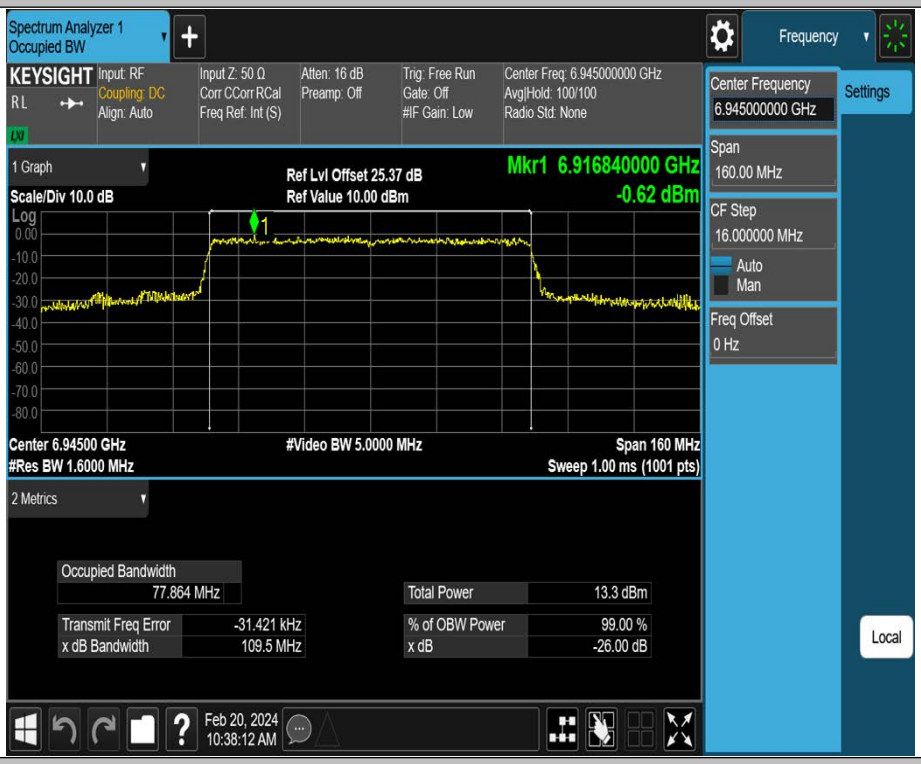
11AX80MIMO_Ant3_6705

11AX80MIMO_Ant4_6705


11AX80MIMO_Ant1_6785

11AX80MIMO_Ant2_6785


11AX80MIMO_Ant3_6785

11AX80MIMO_Ant4_6785


11AX80MIMO_Ant1_6945

11AX80MIMO_Ant2_6945

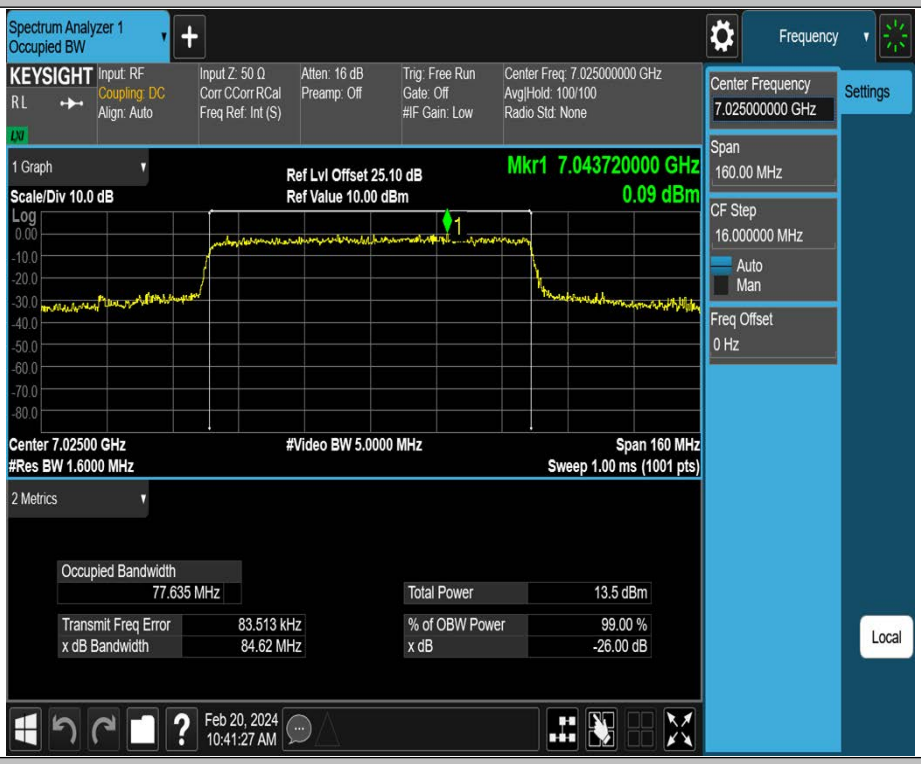
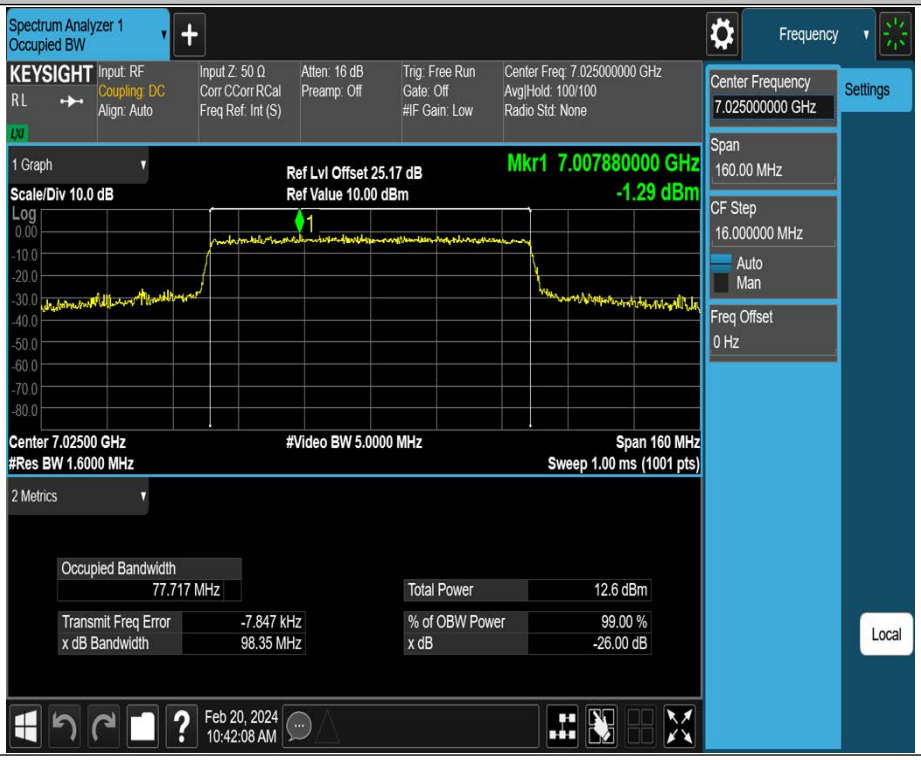

11AX80MIMO_Ant3_6945

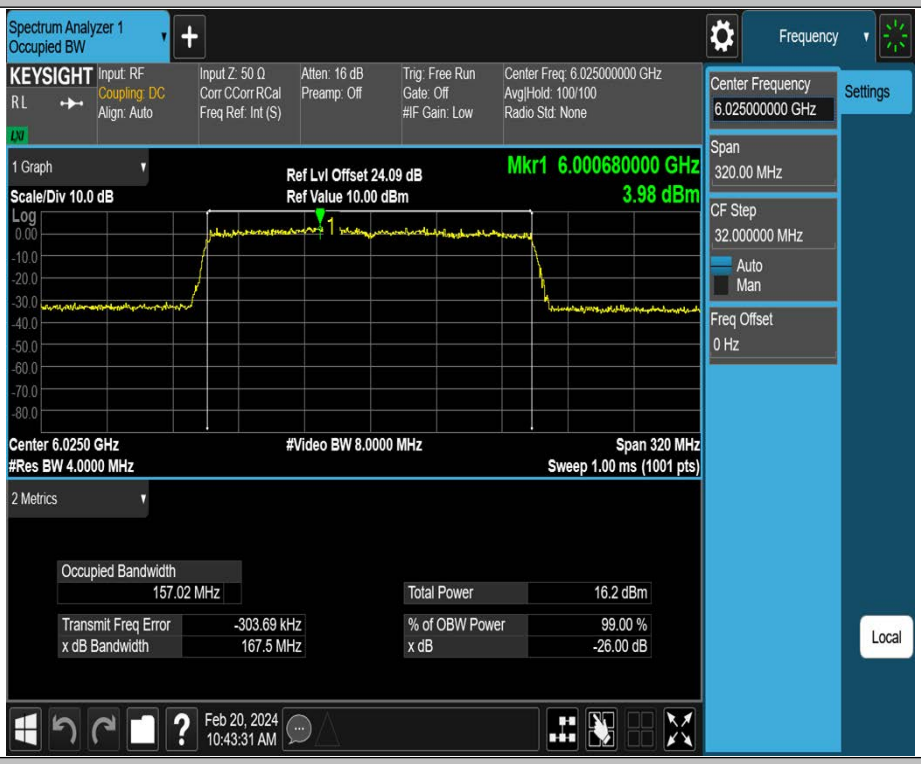


11AX80MIMO_Ant4_6945

11AX80MIMO_Ant1_7025

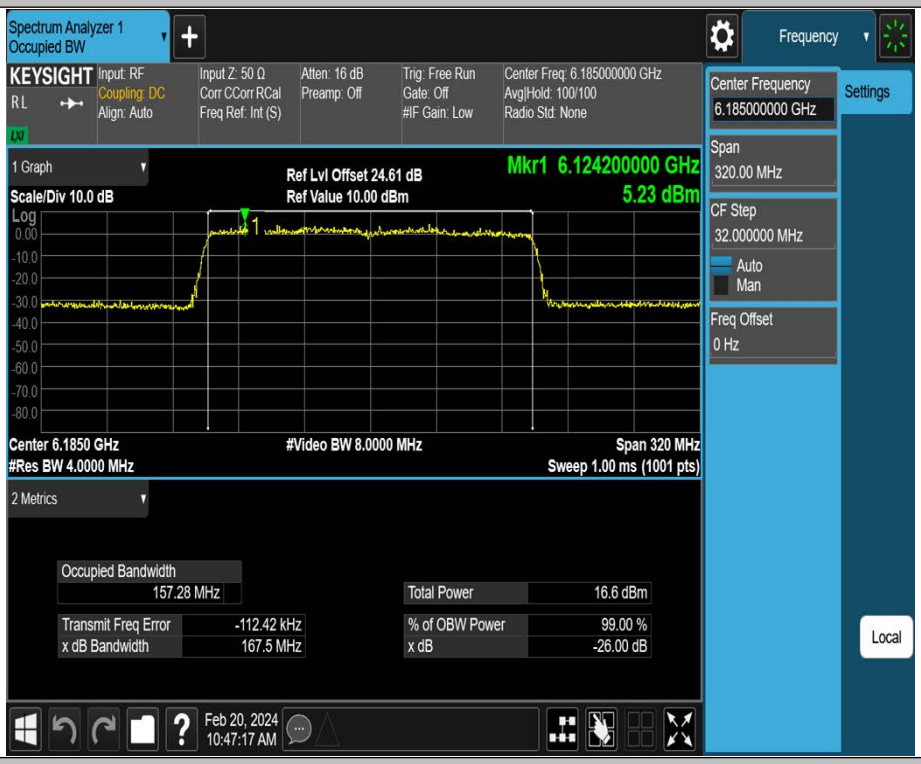
11AX80MIMO_Ant2_7025

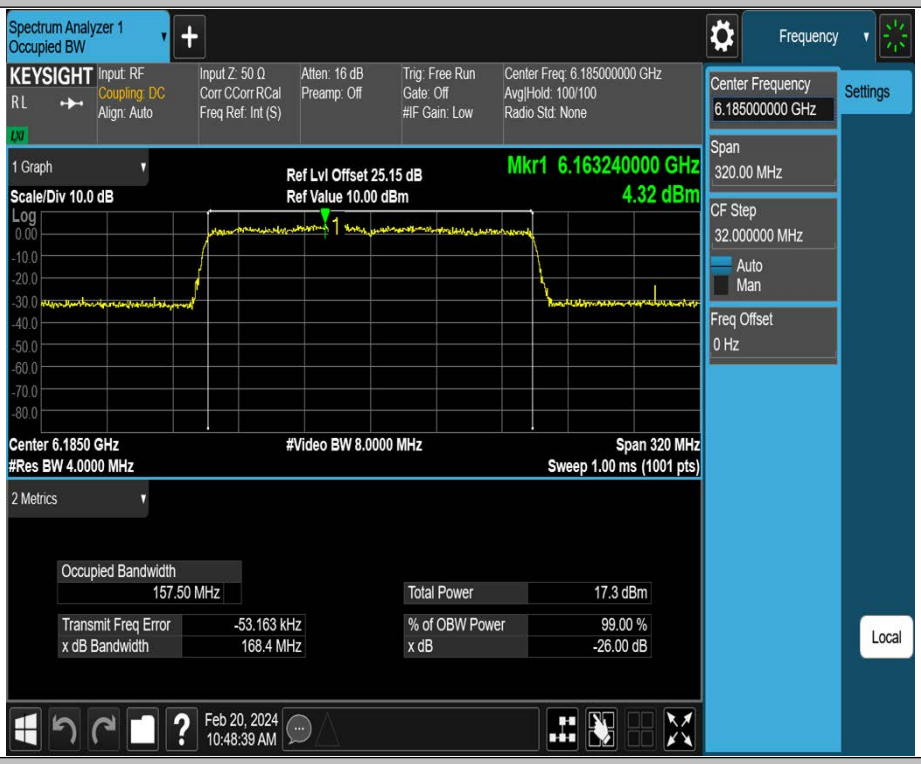
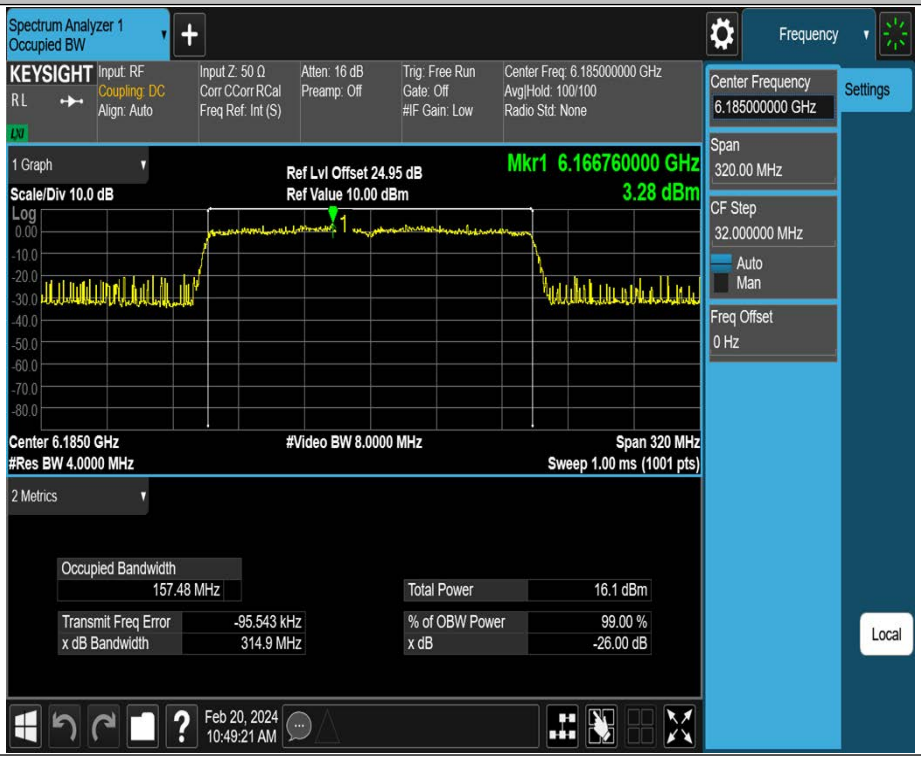

11AX80MIMO_Ant3_7025

11AX80MIMO_Ant4_7025


11AX160MIMO_Ant1_6025

11AX160MIMO_Ant2_6025


11AX160MIMO_Ant3_6025

11AX160MIMO_Ant4_6025


11AX160MIMO_Ant1_6185

11AX160MIMO_Ant2_6185

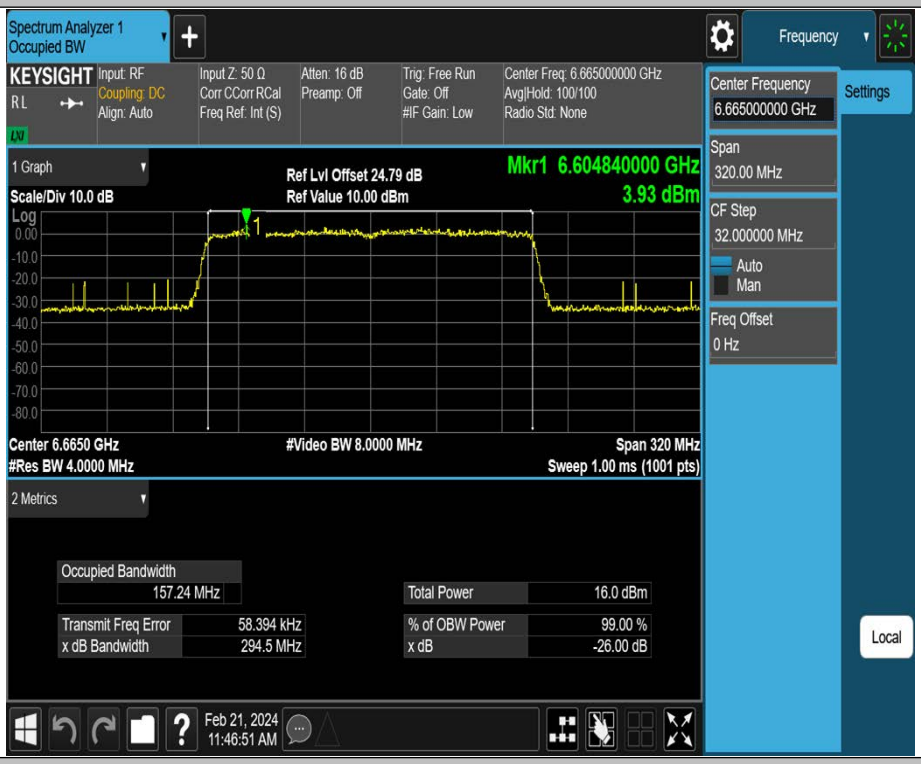

11AX160MIMO_Ant3_6185

11AX160MIMO_Ant4_6185


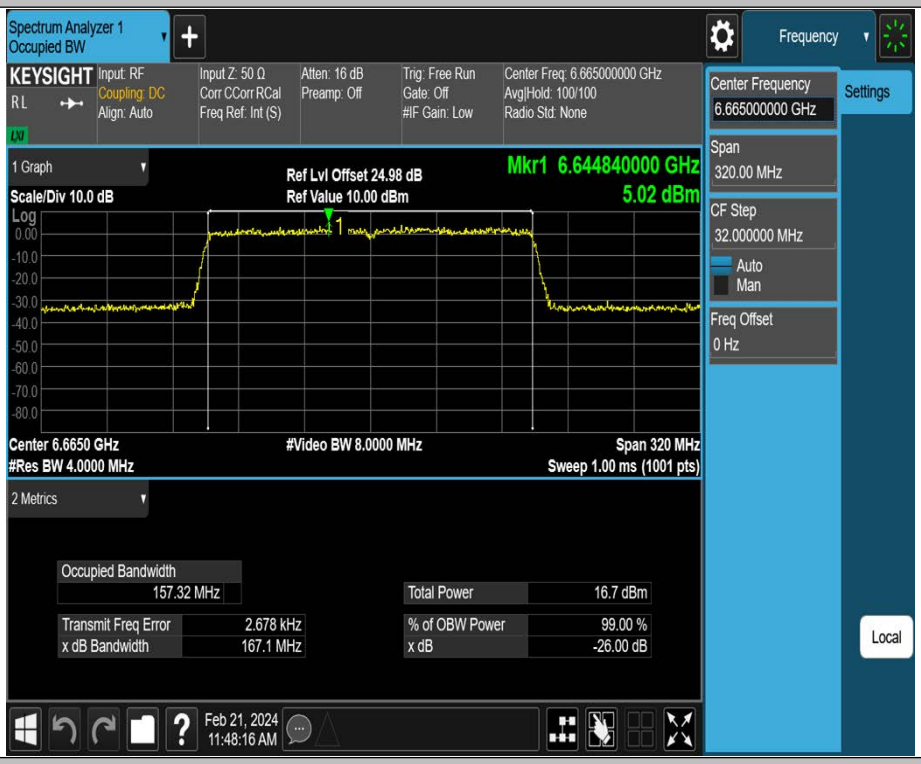
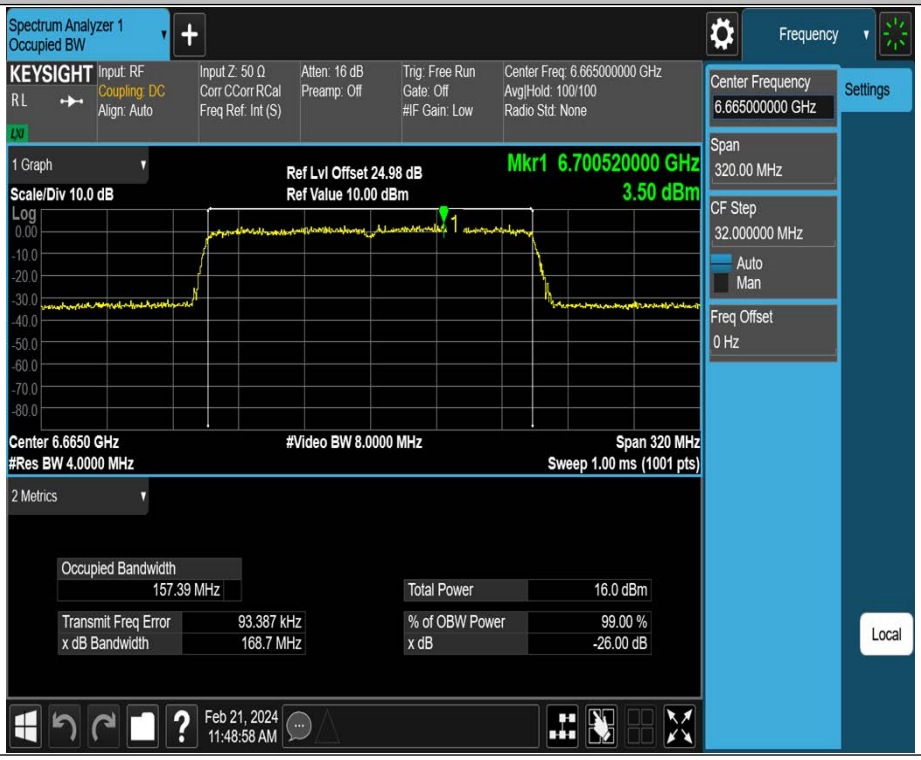
11AX160MIMO_Ant1_6345

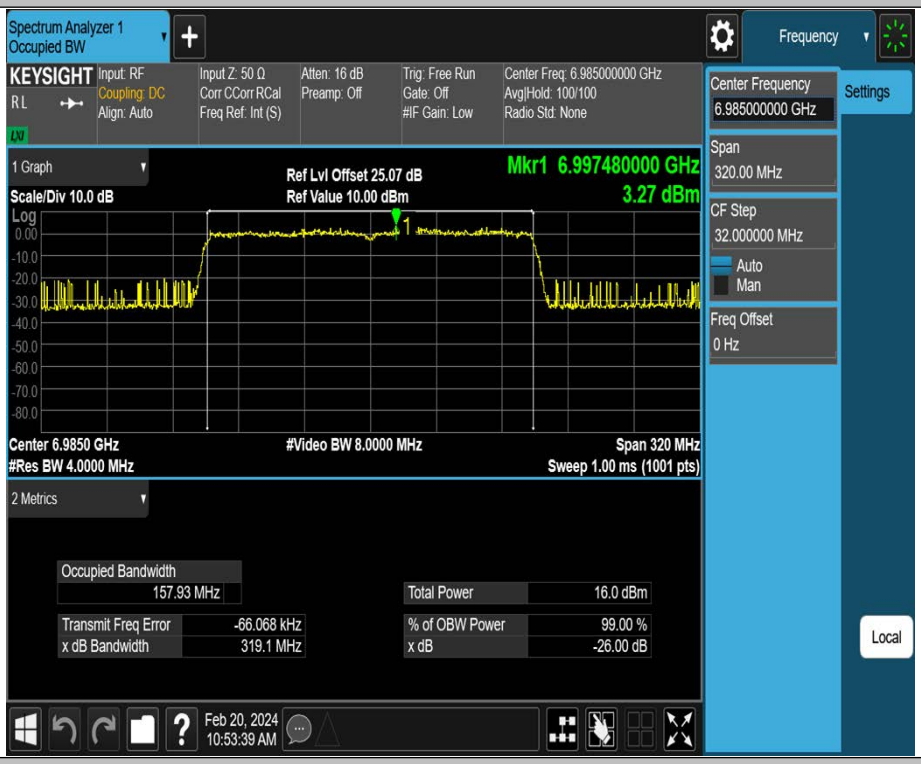
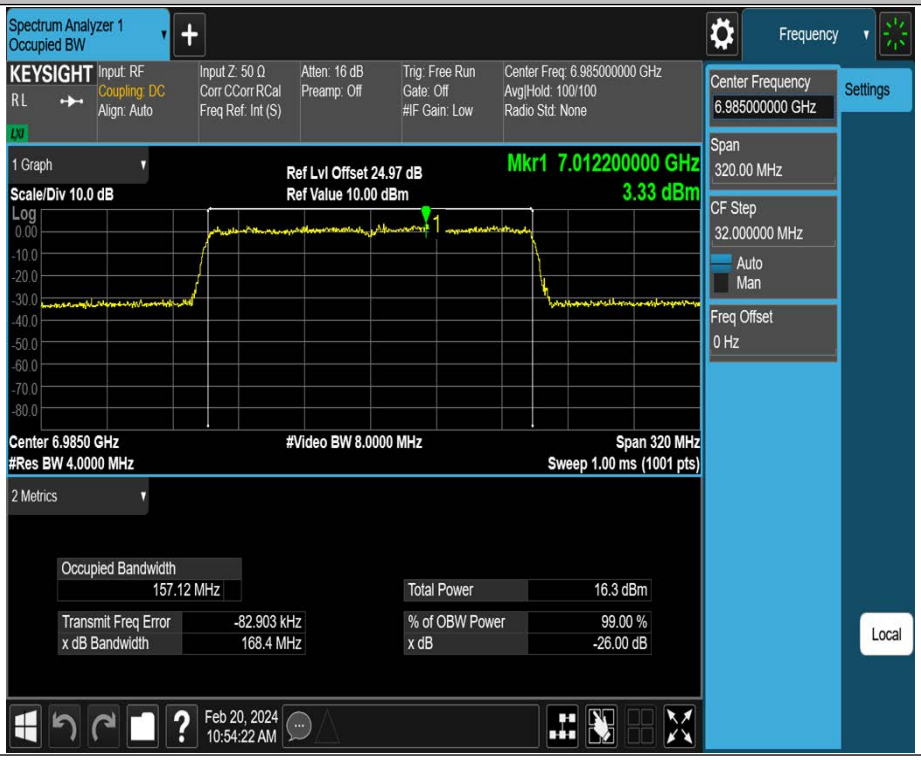
11AX160MIMO_Ant2_6345

11AX160MIMO_Ant3_6345

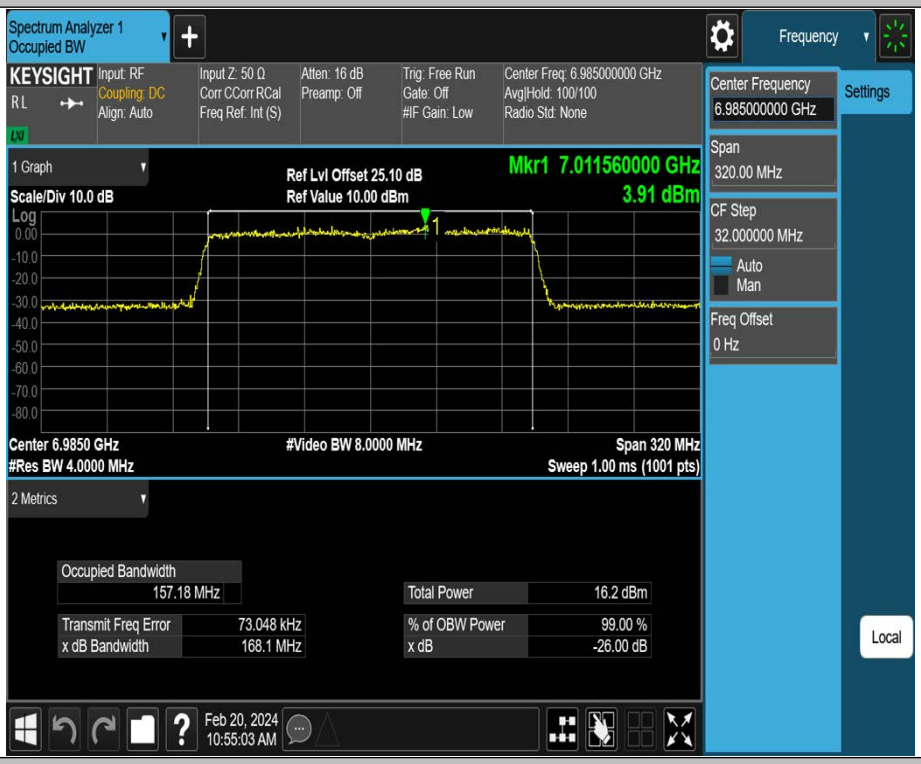
11AX160MIMO_Ant4_6345


11AX160MIMO_Ant1_6665

11AX160MIMO_Ant2_6665


11AX160MIMO_Ant3_6665

11AX160MIMO_Ant4_6665


11AX160MIMO_Ant1_6985

11AX160MIMO_Ant2_6985


11AX160MIMO_Ant3_6985



11AX160MIMO_Ant4_6985

3.2 Transmitter power

3.2.1 Limit

The following limits shall apply to indoor access points devices:

a. the maximum e.i.r.p. spectral density shall not exceed 5dBm/MHz and

b. the maximum e.i.r.p. over the 5925-7125 MHz frequency band shall not exceed 30dBm.

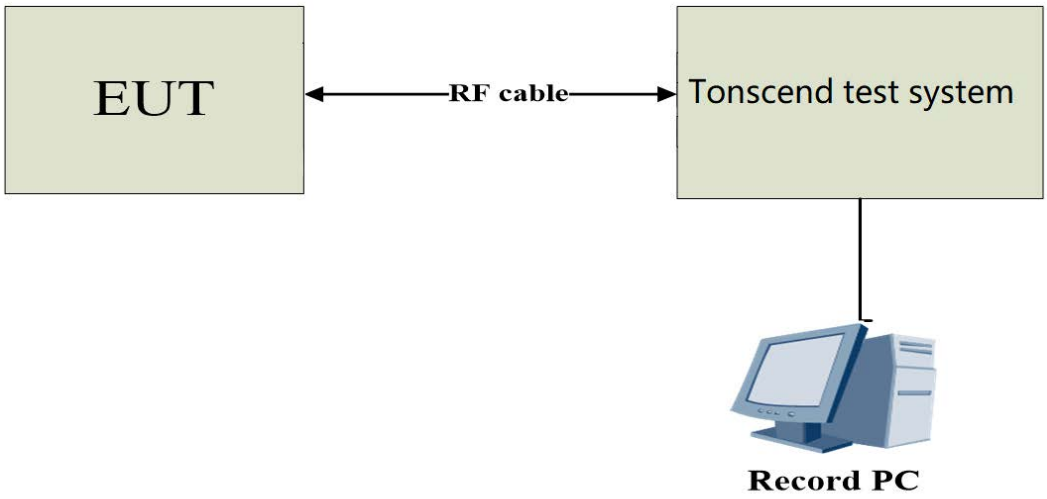
3.2.2 Test Procedure

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.

Test software: accessMTool_REL_3_3_0_2

No beamforming

Test Mode	Frequency(MHz)	Power Setting	Test Mode	Frequency(MHz)	Power Setting
11ax-HE20	5955	41	11ax-HE40	5965	51
	6175	40		6165	50
	6415	40		6405	51
	6435	41		6445	51
	6475	41		6485	51
	6515	40		6525	51
	6535	40		6565	50
	6695	40		6685	50
	6855	40		6845	51
	6875	40		6885	51
	6895	40		6925	51
	6995	40		6965	51
	7095	40		7085	50
	7115	20		--	--
11ax-HE80	5985	63	11ax-HE160	6025	68
	6145	62		6185	67
	6385	63		6345	67
	6465	63		6505	68
	6545	63		6665	68
	6625	63		6825	67
	6705	63		6985	68
	6785	63		--	--
	6865	63		--	--
	6945	63		--	--
	7025	62		--	--
11A	5955	39	11A	6695	39
	6175	39		6855	39
	6415	39		6875	39
	6435	39		6895	39
	6475	39		6995	39
	6515	39		7095	39
	6535	39		7115	20

Beamforming

Test Mode	Frequency(MHz)	Power Setting	Test Mode	Frequency(MHz)	Power Setting
11ax-HE20	5955	34	11ax-HE40	5965	44
	6175	33		6165	43
	6415	33		6405	44
	6435	34		6445	44
	6475	34		6485	44
	6515	33		6525	44
	6535	33		6565	43
	6695	33		6685	43
	6855	33		6845	44
	6875	33		6885	44
	6895	33		6925	44
	6995	33		6965	44
	7095	13		7085	43
11ax-HE80	5985	56	11ax-HE160	6025	61
	6145	55		6185	60
	6385	56		6345	60
	6465	56		6505	61
	6545	56		6665	61
	6625	56		6825	60
	6705	56		6985	61
	6785	56		--	--
	6865	56		--	--
	6945	56		--	--
	7025	55		--	--

3.2.5 Test Result

No beamforming

Test Mode	Antenna	Frequency [MHz]	Max. Conducted Output Power [dBm]	Gain [dBi]	EIRP [dBm]	EIRPLimit [dBm]	Verdict
11A-CDD	Ant1	5955	7.95	4.40	12.35	≤30	PASS
11A-CDD	Ant2	5955	7.46	4.60	12.06	≤30	PASS
11A-CDD	Ant3	5955	7.01	4.90	11.91	≤30	PASS
11A-CDD	Ant4	5955	6.23	4.50	10.73	≤30	PASS
11A-CDD	total	5955	13.23	2.26	15.49	≤30	PASS
11A-CDD	Ant1	6175	7.24	4.40	11.64	≤30	PASS
11A-CDD	Ant2	6175	7.98	4.60	12.58	≤30	PASS
11A-CDD	Ant3	6175	7.35	4.90	12.25	≤30	PASS
11A-CDD	Ant4	6175	6.74	4.50	11.24	≤30	PASS
11A-CDD	total	6175	13.37	2.26	15.63	≤30	PASS
11A-CDD	Ant1	6415	7.62	4.40	12.02	≤30	PASS
11A-CDD	Ant2	6415	7.34	4.60	11.94	≤30	PASS
11A-CDD	Ant3	6415	7.22	4.90	12.12	≤30	PASS
11A-CDD	Ant4	6415	6.84	4.50	11.34	≤30	PASS
11A-CDD	total	6415	13.28	2.26	15.54	≤30	PASS
11A-CDD	Ant1	6435	7.78	4.40	12.18	≤30	PASS
11A-CDD	Ant2	6435	7.71	4.60	12.31	≤30	PASS
11A-CDD	Ant3	6435	6.98	4.90	11.88	≤30	PASS
11A-CDD	Ant4	6435	7.39	4.50	11.89	≤30	PASS
11A-CDD	total	6435	13.50	2.26	15.76	≤30	PASS
11A-CDD	Ant1	6475	7.61	4.40	12.01	≤30	PASS
11A-CDD	Ant2	6475	7.69	4.60	12.29	≤30	PASS
11A-CDD	Ant3	6475	6.58	4.90	11.48	≤30	PASS
11A-CDD	Ant4	6475	7.57	4.50	12.07	≤30	PASS
11A-CDD	total	6475	13.41	2.26	15.67	≤30	PASS
11A-CDD	Ant1	6515	7.79	4.40	12.19	≤30	PASS
11A-CDD	Ant2	6515	7.74	4.60	12.34	≤30	PASS
11A-CDD	Ant3	6515	6.62	4.90	11.52	≤30	PASS
11A-CDD	Ant4	6515	7.70	4.50	12.20	≤30	PASS
11A-CDD	total	6515	13.51	2.26	15.77	≤30	PASS
11A-CDD	Ant1	6535	7.32	4.40	11.72	≤30	PASS
11A-CDD	Ant2	6535	7.89	4.60	12.49	≤30	PASS
11A-CDD	Ant3	6535	6.31	4.90	11.21	≤30	PASS
11A-CDD	Ant4	6535	7.36	4.50	11.86	≤30	PASS
11A-CDD	total	6535	13.28	2.26	15.54	≤30	PASS
11A-CDD	Ant1	6695	7.31	4.40	11.71	≤30	PASS
11A-CDD	Ant2	6695	7.88	4.60	12.48	≤30	PASS
11A-CDD	Ant3	6695	7.70	4.90	12.60	≤30	PASS

11A-CDD	Ant4	6695	6.64	4.50	11.14	≤30	PASS
11A-CDD	total	6695	13.43	2.26	15.69	≤30	PASS
11A-CDD	Ant1	6855	7.21	4.40	11.61	≤30	PASS
11A-CDD	Ant2	6855	7.88	4.60	12.48	≤30	PASS
11A-CDD	Ant3	6855	7.95	4.90	12.85	≤30	PASS
11A-CDD	Ant4	6855	7.24	4.50	11.74	≤30	PASS
11A-CDD	total	6855	13.60	2.26	15.86	≤30	PASS
11A-CDD	Ant1	6895	7.48	4.40	11.88	≤30	PASS
11A-CDD	Ant2	6895	7.35	4.60	11.95	≤30	PASS
11A-CDD	Ant3	6895	7.58	4.90	12.48	≤30	PASS
11A-CDD	Ant4	6895	6.75	4.50	11.25	≤30	PASS
11A-CDD	total	6895	13.32	2.26	15.58	≤30	PASS
11A-CDD	Ant1	6995	7.23	4.40	11.63	≤30	PASS
11A-CDD	Ant2	6995	7.16	4.60	11.76	≤30	PASS
11A-CDD	Ant3	6995	7.25	4.90	12.15	≤30	PASS
11A-CDD	Ant4	6995	6.79	4.50	11.29	≤30	PASS
11A-CDD	total	6995	13.13	2.26	15.39	≤30	PASS
11A-CDD	Ant1	7095	7.84	4.40	12.24	≤30	PASS
11A-CDD	Ant2	7095	8.02	4.60	12.62	≤30	PASS
11A-CDD	Ant3	7095	7.46	4.90	12.36	≤30	PASS
11A-CDD	Ant4	7095	7.12	4.50	11.62	≤30	PASS
11A-CDD	total	7095	13.64	2.26	15.90	≤30	PASS
11A-CDD	Ant1	7115	3.40	4.40	7.80	≤30	PASS
11A-CDD	Ant2	7115	3.76	4.60	8.36	≤30	PASS
11A-CDD	Ant3	7115	3.48	4.90	8.38	≤30	PASS
11A-CDD	Ant4	7115	3.11	4.50	7.61	≤30	PASS
11A-CDD	total	7115	9.46	2.26	11.72	≤30	PASS
11AX20MIMO	Ant1	5955	8.73	4.40	13.13	≤30	PASS
11AX20MIMO	Ant2	5955	8.69	4.60	13.29	≤30	PASS
11AX20MIMO	Ant3	5955	7.87	4.90	12.77	≤30	PASS
11AX20MIMO	Ant4	5955	7.17	4.50	11.67	≤30	PASS
11AX20MIMO	total	5955	14.18	2.26	16.44	≤30	PASS
11AX20MIMO	Ant1	6175	8.53	4.40	12.93	≤30	PASS
11AX20MIMO	Ant2	6175	8.65	4.60	13.25	≤30	PASS
11AX20MIMO	Ant3	6175	8.71	4.90	13.61	≤30	PASS
11AX20MIMO	Ant4	6175	7.59	4.50	12.09	≤30	PASS
11AX20MIMO	total	6175	14.41	2.26	16.67	≤30	PASS
11AX20MIMO	Ant1	6415	9.40	4.40	13.80	≤30	PASS
11AX20MIMO	Ant2	6415	7.18	4.60	11.78	≤30	PASS
11AX20MIMO	Ant3	6415	6.54	4.90	11.44	≤30	PASS
11AX20MIMO	Ant4	6415	6.52	4.50	11.02	≤30	PASS
11AX20MIMO	total	6415	14.08	2.26	16.34	≤30	PASS
11AX20MIMO	Ant1	6435	8.47	4.40	12.87	≤30	PASS

11AX20MIMO	Ant2	6435	7.32	4.60	11.92	≤30	PASS
11AX20MIMO	Ant3	6435	8.41	4.90	13.31	≤30	PASS
11AX20MIMO	Ant4	6435	7.57	4.50	12.07	≤30	PASS
11AX20MIMO	total	6435	13.99	2.26	16.25	≤30	PASS
11AX20MIMO	Ant1	6475	8.41	4.40	12.81	≤30	PASS
11AX20MIMO	Ant2	6475	7.57	4.60	12.17	≤30	PASS
11AX20MIMO	Ant3	6475	8.56	4.90	13.46	≤30	PASS
11AX20MIMO	Ant4	6475	8.21	4.50	12.71	≤30	PASS
11AX20MIMO	total	6475	14.22	2.26	16.48	≤30	PASS
11AX20MIMO	Ant1	6515	8.62	4.40	13.02	≤30	PASS
11AX20MIMO	Ant2	6515	7.73	4.60	12.33	≤30	PASS
11AX20MIMO	Ant3	6515	8.28	4.90	13.18	≤30	PASS
11AX20MIMO	Ant4	6515	7.80	4.50	12.30	≤30	PASS
11AX20MIMO	total	6515	14.14	2.26	16.40	≤30	PASS
11AX20MIMO	Ant1	6535	8.40	4.40	12.8	≤30	PASS
11AX20MIMO	Ant2	6535	7.88	4.60	12.48	≤30	PASS
11AX20MIMO	Ant3	6535	8.69	4.90	13.59	≤30	PASS
11AX20MIMO	Ant4	6535	7.94	4.50	12.44	≤30	PASS
11AX20MIMO	total	6535	14.26	2.26	16.52	≤30	PASS
11AX20MIMO	Ant1	6695	7.87	4.40	12.27	≤30	PASS
11AX20MIMO	Ant2	6695	8.72	4.60	13.32	≤30	PASS
11AX20MIMO	Ant3	6695	8.97	4.90	13.87	≤30	PASS
11AX20MIMO	Ant4	6695	7.42	4.50	11.92	≤30	PASS
11AX20MIMO	total	6695	14.31	2.26	16.57	≤30	PASS
11AX20MIMO	Ant1	6855	8.23	4.40	12.63	≤30	PASS
11AX20MIMO	Ant2	6855	8.24	4.60	12.84	≤30	PASS
11AX20MIMO	Ant3	6855	8.40	4.90	13.3	≤30	PASS
11AX20MIMO	Ant4	6855	7.33	4.50	11.83	≤30	PASS
11AX20MIMO	total	6855	14.09	2.26	16.35	≤30	PASS
11AX20MIMO	Ant1	6895	8.29	4.40	12.69	≤30	PASS
11AX20MIMO	Ant2	6895	8.25	4.60	12.85	≤30	PASS
11AX20MIMO	Ant3	6895	8.24	4.90	13.14	≤30	PASS
11AX20MIMO	Ant4	6895	7.58	4.50	12.08	≤30	PASS
11AX20MIMO	total	6895	14.12	2.26	16.38	≤30	PASS
11AX20MIMO	Ant1	6995	8.47	4.40	12.87	≤30	PASS
11AX20MIMO	Ant2	6995	8.49	4.60	13.09	≤30	PASS
11AX20MIMO	Ant3	6995	8.21	4.90	13.11	≤30	PASS
11AX20MIMO	Ant4	6995	7.50	4.50	12.00	≤30	PASS
11AX20MIMO	total	6995	14.21	2.26	16.47	≤30	PASS
11AX20MIMO	Ant1	7095	8.33	4.40	12.73	≤30	PASS
11AX20MIMO	Ant2	7095	8.05	4.60	12.65	≤30	PASS
11AX20MIMO	Ant3	7095	8.1	4.90	13.00	≤30	PASS
11AX20MIMO	Ant4	7095	7.67	4.50	12.17	≤30	PASS

11AX20MIMO	total	7095	14.07	2.26	16.33	≤30	PASS
11AX20MIMO	Ant1	7115	3.56	4.40	7.96	≤30	PASS
11AX20MIMO	Ant2	7115	3.02	4.60	7.62	≤30	PASS
11AX20MIMO	Ant3	7115	2.84	4.90	7.74	≤30	PASS
11AX20MIMO	Ant4	7115	2.77	4.50	7.27	≤30	PASS
11AX20MIMO	total	7115	9.08	2.26	11.34	≤30	PASS
11AX40MIMO	Ant1	5965	11.74	4.40	16.14	≤30	PASS
11AX40MIMO	Ant2	5965	11.28	4.60	15.88	≤30	PASS
11AX40MIMO	Ant3	5965	11.14	4.90	16.04	≤30	PASS
11AX40MIMO	Ant4	5965	10.02	4.50	14.52	≤30	PASS
11AX40MIMO	total	5965	17.11	2.26	19.37	≤30	PASS
11AX40MIMO	Ant1	6165	10.66	4.40	15.06	≤30	PASS
11AX40MIMO	Ant2	6165	11.21	4.60	15.81	≤30	PASS
11AX40MIMO	Ant3	6165	11.21	4.90	16.11	≤30	PASS
11AX40MIMO	Ant4	6165	10.24	4.50	14.74	≤30	PASS
11AX40MIMO	total	6165	16.87	2.26	19.13	≤30	PASS
11AX40MIMO	Ant1	6405	11.62	4.40	16.02	≤30	PASS
11AX40MIMO	Ant2	6405	10.15	4.60	14.75	≤30	PASS
11AX40MIMO	Ant3	6405	11.27	4.90	16.17	≤30	PASS
11AX40MIMO	Ant4	6405	10.57	4.50	15.07	≤30	PASS
11AX40MIMO	total	6405	16.96	2.26	19.22	≤30	PASS
11AX40MIMO	Ant1	6445	11.11	4.40	15.51	≤30	PASS
11AX40MIMO	Ant2	6445	10.58	4.60	15.18	≤30	PASS
11AX40MIMO	Ant3	6445	11.72	4.90	16.62	≤30	PASS
11AX40MIMO	Ant4	6445	10.83	4.50	15.33	≤30	PASS
11AX40MIMO	total	6445	17.10	2.26	19.36	≤30	PASS
11AX40MIMO	Ant1	6485	10.98	4.40	15.38	≤30	PASS
11AX40MIMO	Ant2	6485	10.99	4.60	15.59	≤30	PASS
11AX40MIMO	Ant3	6485	11.38	4.90	16.28	≤30	PASS
11AX40MIMO	Ant4	6485	10.81	4.50	15.31	≤30	PASS
11AX40MIMO	total	6485	17.07	2.26	19.33	≤30	PASS
11AX40MIMO	Ant1	6525	11.07	4.40	15.47	≤30	PASS
11AX40MIMO	Ant2	6525	10.69	4.60	15.29	≤30	PASS
11AX40MIMO	Ant3	6525	11.26	4.90	16.16	≤30	PASS
11AX40MIMO	Ant4	6525	10.37	4.50	14.87	≤30	PASS
11AX40MIMO	total	6525	16.88	2.26	19.14	≤30	PASS
11AX40MIMO	Ant1	6565	10.87	4.40	15.27	≤30	PASS
11AX40MIMO	Ant2	6565	11.00	4.60	15.60	≤30	PASS
11AX40MIMO	Ant3	6565	11.50	4.90	16.40	≤30	PASS
11AX40MIMO	Ant4	6565	10.80	4.50	15.30	≤30	PASS
11AX40MIMO	total	6565	17.07	2.26	19.33	≤30	PASS
11AX40MIMO	Ant1	6685	10.50	4.40	14.90	≤30	PASS
11AX40MIMO	Ant2	6685	11.05	4.60	15.65	≤30	PASS

11AX40MIMO	Ant3	6685	11.46	4.90	16.36	≤30	PASS
11AX40MIMO	Ant4	6685	10.33	4.50	14.83	≤30	PASS
11AX40MIMO	total	6685	16.88	2.26	19.14	≤30	PASS
11AX40MIMO	Ant1	6845	10.70	4.40	15.10	≤30	PASS
11AX40MIMO	Ant2	6845	11.23	4.60	15.83	≤30	PASS
11AX40MIMO	Ant3	6845	11.33	4.90	16.23	≤30	PASS
11AX40MIMO	Ant4	6845	10.68	4.50	15.18	≤30	PASS
11AX40MIMO	total	6845	17.02	2.26	19.28	≤30	PASS
11AX40MIMO	Ant1	6885	10.69	4.40	15.09	≤30	PASS
11AX40MIMO	Ant2	6885	11.17	4.60	15.77	≤30	PASS
11AX40MIMO	Ant3	6885	11.37	4.90	16.27	≤30	PASS
11AX40MIMO	Ant4	6885	10.86	4.50	15.36	≤30	PASS
11AX40MIMO	total	6885	17.05	2.26	19.31	≤30	PASS
11AX40MIMO	Ant1	6925	10.90	4.40	15.30	≤30	PASS
11AX40MIMO	Ant2	6925	11.27	4.60	15.87	≤30	PASS
11AX40MIMO	Ant3	6925	11.01	4.90	15.91	≤30	PASS
11AX40MIMO	Ant4	6925	10.09	4.50	14.59	≤30	PASS
11AX40MIMO	total	6925	16.86	2.26	19.12	≤30	PASS
11AX40MIMO	Ant1	6965	11.09	4.40	15.49	≤30	PASS
11AX40MIMO	Ant2	6965	11.68	4.60	16.28	≤30	PASS
11AX40MIMO	Ant3	6965	11.15	4.90	16.05	≤30	PASS
11AX40MIMO	Ant4	6965	10.34	4.50	14.84	≤30	PASS
11AX40MIMO	total	6965	17.11	2.26	19.37	≤30	PASS
11AX40MIMO	Ant1	7085	11.05	4.40	15.45	≤30	PASS
11AX40MIMO	Ant2	7085	11.42	4.60	16.02	≤30	PASS
11AX40MIMO	Ant3	7085	11.35	4.90	16.25	≤30	PASS
11AX40MIMO	Ant4	7085	10.26	4.50	14.76	≤30	PASS
11AX40MIMO	total	7085	17.06	2.26	19.32	≤30	PASS
11AX80MIMO	Ant1	5985	14.06	4.40	18.46	≤30	PASS
11AX80MIMO	Ant2	5985	14.05	4.60	18.65	≤30	PASS
11AX80MIMO	Ant3	5985	14.12	4.90	19.02	≤30	PASS
11AX80MIMO	Ant4	5985	13.65	4.50	18.15	≤30	PASS
11AX80MIMO	total	5985	19.99	2.26	22.25	≤30	PASS
11AX80MIMO	Ant1	6145	14.00	4.40	18.40	≤30	PASS
11AX80MIMO	Ant2	6145	13.73	4.60	18.33	≤30	PASS
11AX80MIMO	Ant3	6145	14.32	4.90	19.22	≤30	PASS
11AX80MIMO	Ant4	6145	13.61	4.50	18.11	≤30	PASS
11AX80MIMO	total	6145	19.94	2.26	22.20	≤30	PASS
11AX80MIMO	Ant1	6385	14.15	4.40	18.55	≤30	PASS
11AX80MIMO	Ant2	6385	13.66	4.60	18.26	≤30	PASS
11AX80MIMO	Ant3	6385	14.17	4.90	19.07	≤30	PASS
11AX80MIMO	Ant4	6385	13.69	4.50	18.19	≤30	PASS
11AX80MIMO	total	6385	19.94	2.26	22.20	≤30	PASS

11AX80MIMO	Ant1	6465	14.44	4.40	18.84	≤30	PASS
11AX80MIMO	Ant2	6465	13.59	4.60	18.19	≤30	PASS
11AX80MIMO	Ant3	6465	14.65	4.90	19.55	≤30	PASS
11AX80MIMO	Ant4	6465	14.06	4.50	18.56	≤30	PASS
11AX80MIMO	total	6465	20.22	2.26	22.48	≤30	PASS
11AX80MIMO	Ant1	6545	14.22	4.40	18.62	≤30	PASS
11AX80MIMO	Ant2	6545	13.87	4.60	18.47	≤30	PASS
11AX80MIMO	Ant3	6545	14.54	4.90	19.44	≤30	PASS
11AX80MIMO	Ant4	6545	13.96	4.50	18.46	≤30	PASS
11AX80MIMO	total	6545	20.18	2.26	22.44	≤30	PASS
11AX80MIMO	Ant1	6625	14.29	4.40	18.69	≤30	PASS
11AX80MIMO	Ant2	6625	13.73	4.60	18.33	≤30	PASS
11AX80MIMO	Ant3	6625	14.92	4.90	19.82	≤30	PASS
11AX80MIMO	Ant4	6625	13.56	4.50	18.06	≤30	PASS
11AX80MIMO	total	6625	20.18	2.26	22.44	≤30	PASS
11AX80MIMO	Ant1	6705	13.98	4.40	18.38	≤30	PASS
11AX80MIMO	Ant2	6705	13.94	4.60	18.54	≤30	PASS
11AX80MIMO	Ant3	6705	14.59	4.90	19.49	≤30	PASS
11AX80MIMO	Ant4	6705	.13.68	4.50	18.18	≤30	PASS
11AX80MIMO	total	6705	20.08	2.26	22.34	≤30	PASS
11AX80MIMO	Ant1	6785	13.59	4.40	17.99	≤30	PASS
11AX80MIMO	Ant2	6785	13.99	4.60	18.59	≤30	PASS
11AX80MIMO	Ant3	6785	14.53	4.90	19.43	≤30	PASS
11AX80MIMO	Ant4	6785	13.40	4.50	17.90	≤30	PASS
11AX80MIMO	total	6785	19.92	2.26	22.18	≤30	PASS
11AX80MIMO	Ant1	6865	13.78	4.40	18.18	≤30	PASS
11AX80MIMO	Ant2	6865	14.02	4.60	18.62	≤30	PASS
11AX80MIMO	Ant3	6865	14.47	4.90	19.37	≤30	PASS
11AX80MIMO	Ant4	6865	13.73	4.50	18.23	≤30	PASS
11AX80MIMO	total	6865	20.03	2.26	22.29	≤30	PASS
11AX80MIMO	Ant1	6945	14.22	4.40	18.62	≤30	PASS
11AX80MIMO	Ant2	6945	14.22	4.60	18.82	≤30	PASS
11AX80MIMO	Ant3	6945	14.23	4.90	19.13	≤30	PASS
11AX80MIMO	Ant4	6945	13.50	4.50	18.00	≤30	PASS
11AX80MIMO	total	6945	20.07	2.26	22.33	≤30	PASS
11AX80MIMO	Ant1	7025	14.25	4.40	18.65	≤30	PASS
11AX80MIMO	Ant2	7025	13.92	4.60	18.52	≤30	PASS
11AX80MIMO	Ant3	7025	14.12	4.90	19.02	≤30	PASS
11AX80MIMO	Ant4	7025	13.29	4.50	17.79	≤30	PASS
11AX80MIMO	total	7025	19.93	2.26	22.19	≤30	PASS
11AX160MIMO	Ant1	6025	17.07	4.40	21.47	≤30	PASS
11AX160MIMO	Ant2	6025	16.88	4.60	21.48	≤30	PASS
11AX160MIMO	Ant3	6025	17.13	4.90	22.03	≤30	PASS

11AX160MIMO	Ant4	6025	16.08	4.50	20.58	≤30	PASS
11AX160MIMO	total	6025	22.83	2.26	25.09	≤30	PASS
11AX160MIMO	Ant1	6185	16.74	4.40	21.14	≤30	PASS
11AX160MIMO	Ant2	6185	16.59	4.60	21.19	≤30	PASS
11AX160MIMO	Ant3	6185	16.98	4.90	21.88	≤30	PASS
11AX160MIMO	Ant4	6185	16.30	4.50	20.80	≤30	PASS
11AX160MIMO	total	6185	22.68	2.26	24.94	≤30	PASS
11AX160MIMO	Ant1	6345	16.63	4.40	21.03	≤30	PASS
11AX160MIMO	Ant2	6345	16.78	4.60	21.38	≤30	PASS
11AX160MIMO	Ant3	6345	16.76	4.90	21.66	≤30	PASS
11AX160MIMO	Ant4	6345	16.08	4.50	20.58	≤30	PASS
11AX160MIMO	total	6345	22.59	2.26	24.85	≤30	PASS
11AX160MIMO	Ant1	6505	16.89	4.40	21.29	≤30	PASS
11AX160MIMO	Ant2	6505	16.94	4.60	21.54	≤30	PASS
11AX160MIMO	Ant3	6505	17.04	4.90	21.94	≤30	PASS
11AX160MIMO	Ant4	6505	16.45	4.50	20.95	≤30	PASS
11AX160MIMO	total	6505	22.86	2.26	25.12	≤30	PASS
11AX160MIMO	Ant1	6665	16.83	4.40	21.23	≤30	PASS
11AX160MIMO	Ant2	6665	16.91	4.60	21.51	≤30	PASS
11AX160MIMO	Ant3	6665	17.01	4.90	21.91	≤30	PASS
11AX160MIMO	Ant4	6665	16.37	4.50	20.87	≤30	PASS
11AX160MIMO	total	6665	22.81	2.26	25.07	≤30	PASS
11AX160MIMO	Ant1	6825	16.94	4.40	21.34	≤30	PASS
11AX160MIMO	Ant2	6825	17.05	4.60	21.65	≤30	PASS
11AX160MIMO	Ant3	6825	17.14	4.90	22.04	≤30	PASS
11AX160MIMO	Ant4	6825	16.48	4.50	20.98	≤30	PASS
11AX160MIMO	total	6825	22.93	2.26	25.19	≤30	PASS
11AX160MIMO	Ant1	6985	16.70	4.40	21.10	≤30	PASS
11AX160MIMO	Ant2	6985	17.26	4.60	21.86	≤30	PASS
11AX160MIMO	Ant3	6985	16.94	4.90	21.84	≤30	PASS
11AX160MIMO	Ant4	6985	16.61	4.50	21.11	≤30	PASS
11AX160MIMO	total	6985	22.91	2.26	25.17	≤30	PASS

Note: The duty cycle factor is compensated in the average conducted output power.

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[($10^{G1\ phi\ /20}$ + $10^{G2\ phi\ /20}$ + … + $10^{GN\ phi\ /20}$) / NANT+($10^{G1\ theta\ /20}$ + $10^{G2\ theta\ /20}$ + … + $10^{GN\ theta\ /20}$)^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 = 2.26dBi

Beamforming

Test Mode	Antenna	Frequency [MHz]	Max. Conducted Output Power [dBm]	Gain [dBi]	EIRP [dBm]	EIRPLimit [dBm]	Verdict
11AX20MIMO	Ant1	5955	7.21	4.40	11.61	≤30	PASS
11AX20MIMO	Ant2	5955	7.03	4.60	11.63	≤30	PASS
11AX20MIMO	Ant3	5955	6.35	4.90	11.25	≤30	PASS
11AX20MIMO	Ant4	5955	6.04	4.50	10.54	≤30	PASS
11AX20MIMO	total	5955	12.70	3.76	16.46	≤30	PASS
11AX20MIMO	Ant1	6175	6.99	4.40	11.39	≤30	PASS
11AX20MIMO	Ant2	6175	7.11	4.60	11.71	≤30	PASS
11AX20MIMO	Ant3	6175	7.17	4.90	12.07	≤30	PASS
11AX20MIMO	Ant4	6175	6.05	4.50	10.55	≤30	PASS
11AX20MIMO	total	6175	12.87	3.76	16.63	≤30	PASS
11AX20MIMO	Ant1	6415	7.14	4.40	11.54	≤30	PASS
11AX20MIMO	Ant2	6415	6.44	4.60	11.04	≤30	PASS
11AX20MIMO	Ant3	6415	6.11	4.90	11.01	≤30	PASS
11AX20MIMO	Ant4	6415	5.97	4.50	10.47	≤30	PASS
11AX20MIMO	total	6415	12.46	3.76	16.19	≤30	PASS
11AX20MIMO	Ant1	6435	6.92	4.40	11.32	≤30	PASS
11AX20MIMO	Ant2	6435	5.77	4.60	10.37	≤30	PASS
11AX20MIMO	Ant3	6435	6.86	4.90	11.76	≤30	PASS
11AX20MIMO	Ant4	6435	6.02	4.50	10.52	≤30	PASS
11AX20MIMO	total	6435	12.44	3.76	16.20	≤30	PASS
11AX20MIMO	Ant1	6475	6.85	4.40	11.25	≤30	PASS
11AX20MIMO	Ant2	6475	6.01	4.60	10.61	≤30	PASS
11AX20MIMO	Ant3	6475	7.00	4.90	11.9	≤30	PASS
11AX20MIMO	Ant4	6475	6.65	4.50	11.15	≤30	PASS
11AX20MIMO	total	6475	12.66	3.76	16.42	≤30	PASS
11AX20MIMO	Ant1	6515	7.10	4.40	11.50	≤30	PASS
11AX20MIMO	Ant2	6515	6.21	4.60	10.81	≤30	PASS
11AX20MIMO	Ant3	6515	6.76	4.90	11.66	≤30	PASS
11AX20MIMO	Ant4	6515	6.28	4.50	10.78	≤30	PASS
11AX20MIMO	total	6515	12.62	3.76	16.38	≤30	PASS
11AX20MIMO	Ant1	6535	6.82	4.40	11.22	≤30	PASS
11AX20MIMO	Ant2	6535	6.30	4.60	10.90	≤30	PASS
11AX20MIMO	Ant3	6535	7.11	4.90	12.01	≤30	PASS
11AX20MIMO	Ant4	6535	6.36	4.50	10.86	≤30	PASS
11AX20MIMO	total	6535	12.68	3.76	16.44	≤30	PASS
11AX20MIMO	Ant1	6695	6.28	4.40	10.68	≤30	PASS
11AX20MIMO	Ant2	6695	7.13	4.60	11.73	≤30	PASS
11AX20MIMO	Ant3	6695	7.38	4.90	12.28	≤30	PASS
11AX20MIMO	Ant4	6695	5.83	4.50	10.33	≤30	PASS

11AX20MIMO	total	6695	12.72	3.76	16.48	≤30	PASS
11AX20MIMO	Ant1	6855	6.69	4.40	11.09	≤30	PASS
11AX20MIMO	Ant2	6855	6.70	4.60	11.30	≤30	PASS
11AX20MIMO	Ant3	6855	6.86	4.90	11.76	≤30	PASS
11AX20MIMO	Ant4	6855	5.79	4.50	10.29	≤30	PASS
11AX20MIMO	total	6855	12.55	3.76	16.31	≤30	PASS
11AX20MIMO	Ant1	6895	6.72	4.40	11.12	≤30	PASS
11AX20MIMO	Ant2	6895	6.68	4.60	11.28	≤30	PASS
11AX20MIMO	Ant3	6895	6.67	4.90	11.57	≤30	PASS
11AX20MIMO	Ant4	6895	6.01	4.50	10.51	≤30	PASS
11AX20MIMO	total	6895	12.55	3.76	16.31	≤30	PASS
11AX20MIMO	Ant1	6995	6.92	4.40	11.32	≤30	PASS
11AX20MIMO	Ant2	6995	6.94	4.60	11.54	≤30	PASS
11AX20MIMO	Ant3	6995	6.66	4.90	11.56	≤30	PASS
11AX20MIMO	Ant4	6995	5.95	4.50	10.45	≤30	PASS
11AX20MIMO	total	6995	12.66	3.76	16.42	≤30	PASS
11AX20MIMO	Ant1	7095	6.80	4.40	11.20	≤30	PASS
11AX20MIMO	Ant2	7095	6.52	4.60	11.12	≤30	PASS
11AX20MIMO	Ant3	7095	6.57	4.90	11.47	≤30	PASS
11AX20MIMO	Ant4	7095	6.14	4.50	10.64	≤30	PASS
11AX20MIMO	total	7095	12.54	3.76	16.30	≤30	PASS
11AX20MIMO	Ant1	7115	2.05	4.40	6.45	≤30	PASS
11AX20MIMO	Ant2	7115	1.51	4.60	6.11	≤30	PASS
11AX20MIMO	Ant3	7115	1.33	4.90	6.23	≤30	PASS
11AX20MIMO	Ant4	7115	1.26	4.50	5.76	≤30	PASS
11AX20MIMO	total	7115	7.57	3.76	11.33	≤30	PASS
11AX40MIMO	Ant1	5965	10.18	4.40	14.58	≤30	PASS
11AX40MIMO	Ant2	5965	9.72	4.60	14.32	≤30	PASS
11AX40MIMO	Ant3	5965	9.58	4.90	14.48	≤30	PASS
11AX40MIMO	Ant4	5965	8.46	4.50	12.96	≤30	PASS
11AX40MIMO	total	5965	15.55	3.76	19.31	≤30	PASS
11AX40MIMO	Ant1	6165	9.14	4.40	13.54	≤30	PASS
11AX40MIMO	Ant2	6165	9.69	4.60	14.29	≤30	PASS
11AX40MIMO	Ant3	6165	9.66	4.90	14.56	≤30	PASS
11AX40MIMO	Ant4	6165	8.72	4.50	13.22	≤30	PASS
11AX40MIMO	total	6165	15.34	3.76	19.10	≤30	PASS
11AX40MIMO	Ant1	6405	10.08	4.40	14.48	≤30	PASS
11AX40MIMO	Ant2	6405	8.61	4.60	13.21	≤30	PASS
11AX40MIMO	Ant3	6405	9.73	4.90	14.63	≤30	PASS
11AX40MIMO	Ant4	6405	9.03	4.50	13.53	≤30	PASS
11AX40MIMO	total	6405	15.42	3.76	19.18	≤30	PASS
11AX40MIMO	Ant1	6445	9.52	4.40	13.92	≤30	PASS
11AX40MIMO	Ant2	6445	8.99	4.60	13.59	≤30	PASS

11AX40MIMO	Ant3	6445	10.13	4.90	15.03	≤30	PASS
11AX40MIMO	Ant4	6445	9.24	4.50	13.74	≤30	PASS
11AX40MIMO	total	6445	15.51	3.76	19.27	≤30	PASS
11AX40MIMO	Ant1	6485	9.40	4.40	13.80	≤30	PASS
11AX40MIMO	Ant2	6485	9.41	4.60	14.01	≤30	PASS
11AX40MIMO	Ant3	6485	9.80	4.90	14.70	≤30	PASS
11AX40MIMO	Ant4	6485	9.23	4.50	13.73	≤30	PASS
11AX40MIMO	total	6485	15.49	3.76	19.25	≤30	PASS
11AX40MIMO	Ant1	6525	9.52	4.40	13.92	≤30	PASS
11AX40MIMO	Ant2	6525	9.14	4.60	13.74	≤30	PASS
11AX40MIMO	Ant3	6525	9.71	4.90	14.61	≤30	PASS
11AX40MIMO	Ant4	6525	8.82	4.50	13.32	≤30	PASS
11AX40MIMO	total	6525	15.33	3.76	19.09	≤30	PASS
11AX40MIMO	Ant1	6565	9.29	4.40	13.69	≤30	PASS
11AX40MIMO	Ant2	6565	9.42	4.60	14.02	≤30	PASS
11AX40MIMO	Ant3	6565	9.92	4.90	14.82	≤30	PASS
11AX40MIMO	Ant4	6565	9.22	4.50	13.72	≤30	PASS
11AX40MIMO	total	6565	15.49	3.76	19.25	≤30	PASS
11AX40MIMO	Ant1	6685	8.96	4.40	13.36	≤30	PASS
11AX40MIMO	Ant2	6685	9.51	4.60	14.11	≤30	PASS
11AX40MIMO	Ant3	6685	9.92	4.90	14.82	≤30	PASS
11AX40MIMO	Ant4	6685	8.79	4.50	13.29	≤30	PASS
11AX40MIMO	total	6685	15.34	3.76	19.10	≤30	PASS
11AX40MIMO	Ant1	6845	9.18	4.40	13.58	≤30	PASS
11AX40MIMO	Ant2	6845	9.71	4.60	14.31	≤30	PASS
11AX40MIMO	Ant3	6845	9.81	4.90	14.71	≤30	PASS
11AX40MIMO	Ant4	6845	9.16	4.50	13.66	≤30	PASS
11AX40MIMO	total	6845	15.50	3.76	19.26	≤30	PASS
11AX40MIMO	Ant1	6885	9.12	4.40	13.52	≤30	PASS
11AX40MIMO	Ant2	6885	9.60	4.60	14.20	≤30	PASS
11AX40MIMO	Ant3	6885	9.80	4.90	14.70	≤30	PASS
11AX40MIMO	Ant4	6885	9.29	4.50	13.79	≤30	PASS
11AX40MIMO	total	6885	15.48	3.76	19.24	≤30	PASS
11AX40MIMO	Ant1	6925	9.36	4.40	13.76	≤30	PASS
11AX40MIMO	Ant2	6925	9.73	4.60	14.33	≤30	PASS
11AX40MIMO	Ant3	6925	9.47	4.90	14.37	≤30	PASS
11AX40MIMO	Ant4	6925	8.55	4.50	13.05	≤30	PASS
11AX40MIMO	total	6925	15.32	3.76	19.08	≤30	PASS
11AX40MIMO	Ant1	6965	9.57	4.40	13.97	≤30	PASS
11AX40MIMO	Ant2	6965	10.16	4.60	14.76	≤30	PASS
11AX40MIMO	Ant3	6965	9.63	4.90	14.53	≤30	PASS
11AX40MIMO	Ant4	6965	8.82	4.50	13.32	≤30	PASS
11AX40MIMO	total	6965	15.59	3.76	19.35	≤30	PASS

11AX40MIMO	Ant1	7085	9.51	4.40	13.91	≤30	PASS
11AX40MIMO	Ant2	7085	9.88	4.60	14.48	≤30	PASS
11AX40MIMO	Ant3	7085	9.81	4.90	14.71	≤30	PASS
11AX40MIMO	Ant4	7085	8.72	4.50	13.22	≤30	PASS
11AX40MIMO	total	7085	15.52	3.76	19.28	≤30	PASS
11AX80MIMO	Ant1	5985	12.50	4.40	16.90	≤30	PASS
11AX80MIMO	Ant2	5985	12.49	4.60	17.09	≤30	PASS
11AX80MIMO	Ant3	5985	12.56	4.90	17.46	≤30	PASS
11AX80MIMO	Ant4	5985	12.09	4.50	16.59	≤30	PASS
11AX80MIMO	total	5985	18.43	3.76	22.19	≤30	PASS
11AX80MIMO	Ant1	6145	12.45	4.40	16.85	≤30	PASS
11AX80MIMO	Ant2	6145	12.18	4.60	16.78	≤30	PASS
11AX80MIMO	Ant3	6145	12.77	4.90	17.67	≤30	PASS
11AX80MIMO	Ant4	6145	12.06	4.50	16.56	≤30	PASS
11AX80MIMO	total	6145	18.39	3.76	22.15	≤30	PASS
11AX80MIMO	Ant1	6385	12.56	4.40	16.96	≤30	PASS
11AX80MIMO	Ant2	6385	12.07	4.60	16.67	≤30	PASS
11AX80MIMO	Ant3	6385	12.58	4.90	17.48	≤30	PASS
11AX80MIMO	Ant4	6385	12.10	4.50	16.60	≤30	PASS
11AX80MIMO	total	6385	18.35	3.76	22.11	≤30	PASS
11AX80MIMO	Ant1	6465	12.89	4.40	17.29	≤30	PASS
11AX80MIMO	Ant2	6465	12.04	4.60	16.64	≤30	PASS
11AX80MIMO	Ant3	6465	13.10	4.90	18.00	≤30	PASS
11AX80MIMO	Ant4	6465	12.51	4.50	17.01	≤30	PASS
11AX80MIMO	total	6465	18.67	3.76	22.43	≤30	PASS
11AX80MIMO	Ant1	6545	12.71	4.40	17.11	≤30	PASS
11AX80MIMO	Ant2	6545	12.36	4.60	16.96	≤30	PASS
11AX80MIMO	Ant3	6545	13.03	4.90	17.93	≤30	PASS
11AX80MIMO	Ant4	6545	12.45	4.50	16.95	≤30	PASS
11AX80MIMO	total	6545	18.67	3.76	22.43	≤30	PASS
11AX80MIMO	Ant1	6625	12.72	4.40	17.12	≤30	PASS
11AX80MIMO	Ant2	6625	12.16	4.60	16.76	≤30	PASS
11AX80MIMO	Ant3	6625	13.35	4.90	18.25	≤30	PASS
11AX80MIMO	Ant4	6625	11.99	4.50	16.49	≤30	PASS
11AX80MIMO	total	6625	18.61	3.76	22.37	≤30	PASS
11AX80MIMO	Ant1	6705	12.40	4.40	16.80	≤30	PASS
11AX80MIMO	Ant2	6705	12.36	4.60	16.96	≤30	PASS
11AX80MIMO	Ant3	6705	13.01	4.90	17.91	≤30	PASS
11AX80MIMO	Ant4	6705	12.10	4.50	16.60	≤30	PASS
11AX80MIMO	total	6705	18.50	3.76	22.26	≤30	PASS
11AX80MIMO	Ant1	6785	12.03	4.40	16.43	≤30	PASS
11AX80MIMO	Ant2	6785	12.43	4.60	17.03	≤30	PASS
11AX80MIMO	Ant3	6785	12.97	4.90	17.87	≤30	PASS

11AX80MIMO	Ant4	6785	11.84	4.50	16.34	≤30	PASS
11AX80MIMO	total	6785	18.36	3.76	22.12	≤30	PASS
11AX80MIMO	Ant1	6865	12.24	4.40	16.64	≤30	PASS
11AX80MIMO	Ant2	6865	12.48	4.60	17.08	≤30	PASS
11AX80MIMO	Ant3	6865	12.93	4.90	17.83	≤30	PASS
11AX80MIMO	Ant4	6865	12.19	4.50	16.69	≤30	PASS
11AX80MIMO	total	6865	18.49	3.76	22.25	≤30	PASS
11AX80MIMO	Ant1	6945	12.63	4.40	17.03	≤30	PASS
11AX80MIMO	Ant2	6945	12.57	4.60	17.17	≤30	PASS
11AX80MIMO	Ant3	6945	12.64	4.90	17.54	≤30	PASS
11AX80MIMO	Ant4	6945	11.91	4.50	16.41	≤30	PASS
11AX80MIMO	total	6945	18.47	3.76	22.23	≤30	PASS
11AX80MIMO	Ant1	7025	12.74	4.40	17.14	≤30	PASS
11AX80MIMO	Ant2	7025	12.41	4.60	17.01	≤30	PASS
11AX80MIMO	Ant3	7025	12.61	4.90	17.51	≤30	PASS
11AX80MIMO	Ant4	7025	11.78	4.50	16.28	≤30	PASS
11AX80MIMO	total	7025	18.42	3.76	22.18	≤30	PASS
11AX160MIMO	Ant1	6025	15.52	4.40	19.92	≤30	PASS
11AX160MIMO	Ant2	6025	15.33	4.60	19.93	≤30	PASS
11AX160MIMO	Ant3	6025	15.58	4.90	20.48	≤30	PASS
11AX160MIMO	Ant4	6025	14.53	4.50	19.03	≤30	PASS
11AX160MIMO	total	6025	21.28	3.76	25.04	≤30	PASS
11AX160MIMO	Ant1	6185	15.16	4.40	19.56	≤30	PASS
11AX160MIMO	Ant2	6185	15.01	4.60	19.61	≤30	PASS
11AX160MIMO	Ant3	6185	15.40	4.90	20.30	≤30	PASS
11AX160MIMO	Ant4	6185	14.72	4.50	19.22	≤30	PASS
11AX160MIMO	total	6185	21.10	3.76	24.86	≤30	PASS
11AX160MIMO	Ant1	6345	15.06	4.40	19.46	≤30	PASS
11AX160MIMO	Ant2	6345	15.21	4.60	19.81	≤30	PASS
11AX160MIMO	Ant3	6345	15.19	4.90	20.09	≤30	PASS
11AX160MIMO	Ant4	6345	14.51	4.50	19.01	≤30	PASS
11AX160MIMO	total	6345	21.02	3.76	24.78	≤30	PASS
11AX160MIMO	Ant1	6505	15.33	4.40	19.73	≤30	PASS
11AX160MIMO	Ant2	6505	15.38	4.60	19.98	≤30	PASS
11AX160MIMO	Ant3	6505	15.48	4.90	20.38	≤30	PASS
11AX160MIMO	Ant4	6505	14.89	4.50	19.39	≤30	PASS
11AX160MIMO	total	6505	21.30	3.76	25.06	≤30	PASS
11AX160MIMO	Ant1	6665	15.31	4.40	19.71	≤30	PASS
11AX160MIMO	Ant2	6665	15.39	4.60	19.99	≤30	PASS
11AX160MIMO	Ant3	6665	15.49	4.90	20.39	≤30	PASS
11AX160MIMO	Ant4	6665	14.85	4.50	19.35	≤30	PASS
11AX160MIMO	total	6665	21.29	3.76	25.05	≤30	PASS
11AX160MIMO	Ant1	6825	15.38	4.40	19.78	≤30	PASS

11AX160MIMO	Ant2	6825	15.49	4.60	20.09	≤30	PASS
11AX160MIMO	Ant3	6825	15.58	4.90	20.48	≤30	PASS
11AX160MIMO	Ant4	6825	14.85	4.50	19.35	≤30	PASS
11AX160MIMO	total	6825	21.35	3.76	25.11	≤30	PASS
11AX160MIMO	Ant1	6985	15.18	4.40	19.58	≤30	PASS
11AX160MIMO	Ant2	6985	15.74	4.60	20.34	≤30	PASS
11AX160MIMO	Ant3	6985	15.42	4.90	20.32	≤30	PASS
11AX160MIMO	Ant4	6985	15.09	4.50	19.59	≤30	PASS
11AX160MIMO	total	6985	21.39	3.76	25.15	≤30	PASS

Note: The duty cycle factor is compensated in the average conducted output power.

Correlated chains directional gain=2.26+1.5=3.76dBi

3.3 Power Spectral Density Measurement

3.3.1 Limit

The following limits shall apply to standard client devices:

a. the maximum e.i.r.p. spectral density shall not exceed 5dBm/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)

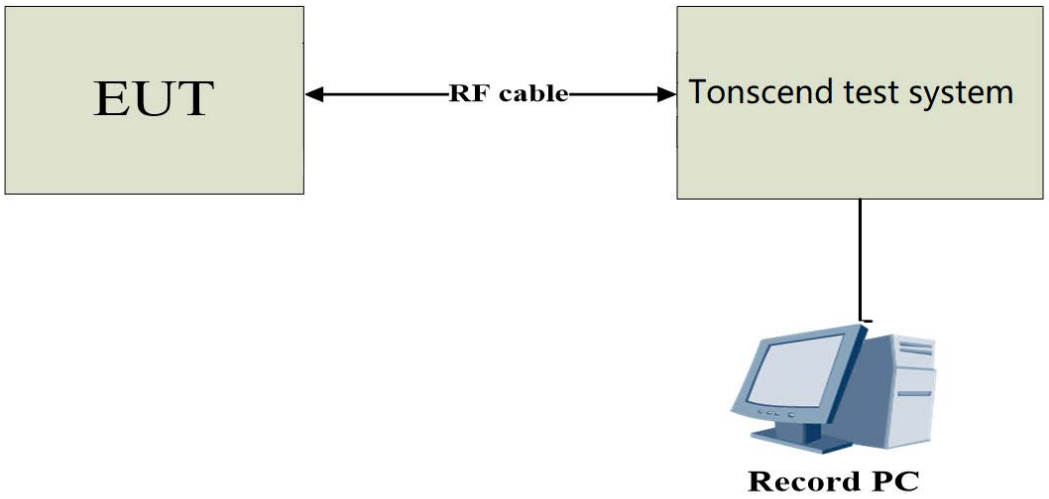
7. Sweep time = auto

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

Test Mode	Antenna	Channel	The conducted power spectral density [dBm/MHz]	Gain [dBi]	The maximum e.i.r.p. spectral density [dBm/MHz]	Limit [dBm/MHz]	Verdict
11A-CDD	Ant1	5955	-2.90	4.40	1.50	≤5.00	PASS
	Ant2	5955	-3.72	4.60	0.88	≤5.00	PASS
	Ant3	5955	-3.96	4.90	0.94	≤5.00	PASS
	Ant4	5955	-4.86	4.50	-0.36	≤5.00	PASS
	total	5955	2.22	2.26	4.48	≤5.00	PASS
	Ant1	6175	-3.99	4.40	0.41	≤5.00	PASS
	Ant2	6175	-2.91	4.60	1.69	≤5.00	PASS
	Ant3	6175	-3.91	4.90	0.99	≤5.00	PASS
	Ant4	6175	-4.23	4.50	0.27	≤5.00	PASS
	total	6175	2.29	2.26	4.55	≤5.00	PASS
	Ant1	6415	-2.50	4.40	1.90	≤5.00	PASS
	Ant2	6415	-4.16	4.60	0.44	≤5.00	PASS
	Ant3	6415	-4.87	4.90	0.03	≤5.00	PASS
	Ant4	6415	-5.15	4.50	-0.65	≤5.00	PASS
	total	6415	1.98	2.26	4.24	≤5.00	PASS
	Ant1	6435	-3.27	4.40	1.13	≤5.00	PASS
	Ant2	6435	-3.48	4.60	1.12	≤5.00	PASS
	Ant3	6435	-4.38	4.90	0.52	≤5.00	PASS
	Ant4	6435	-3.68	4.50	0.82	≤5.00	PASS
	total	6435	2.34	2.26	4.60	≤5.00	PASS
	Ant1	6475	-3.50	4.40	0.90	≤5.00	PASS
	Ant2	6475	-3.49	4.60	1.11	≤5.00	PASS
	Ant3	6475	-4.35	4.90	0.55	≤5.00	PASS
	Ant4	6475	-3.57	4.50	0.93	≤5.00	PASS
	total	6475	2.31	2.26	4.57	≤5.00	PASS
	Ant1	6515	-3.63	4.40	0.77	≤5.00	PASS
	Ant2	6515	-2.56	4.60	2.04	≤5.00	PASS
	Ant3	6515	-4.14	4.90	0.76	≤5.00	PASS
	Ant4	6515	-3.36	4.50	1.14	≤5.00	PASS
	total	6515	2.64	2.26	4.90	≤5.00	PASS
	Ant1	6535	-3.60	4.40	0.80	≤5.00	PASS
	Ant2	6535	-3.03	4.60	1.57	≤5.00	PASS
	Ant3	6535	-4.70	4.90	0.20	≤5.00	PASS
	Ant4	6535	-3.77	4.50	0.73	≤5.00	PASS
	total	6535	2.29	2.26	4.55	≤5.00	PASS
	Ant1	6695	-3.84	4.40	0.56	≤5.00	PASS
	Ant2	6695	-2.93	4.60	1.67	≤5.00	PASS
	Ant3	6695	-3.43	4.90	1.47	≤5.00	PASS

	Ant4	6695	-4.54	4.50	-0.04	≤5.00	PASS
	total	6695	2.38	2.26	4.64	≤5.00	PASS
	Ant1	6855	-3.82	4.40	0.58	≤5.00	PASS
	Ant2	6855	-2.80	4.60	1.80	≤5.00	PASS
	Ant3	6855	-3.09	4.90	1.81	≤5.00	PASS
	Ant4	6855	-3.89	4.50	0.61	≤5.00	PASS
	total	6855	2.65	2.26	4.91	≤5.00	PASS
	Ant1	6895	-3.29	4.40	1.11	≤5.00	PASS
	Ant2	6895	-3.29	4.60	1.31	≤5.00	PASS
	Ant3	6895	-2.93	4.90	1.97	≤5.00	PASS
	Ant4	6895	-3.96	4.50	0.54	≤5.00	PASS
	total	6895	2.67	2.26	4.93	≤5.00	PASS
	Ant1	6995	-3.14	4.40	1.26	≤5.00	PASS
	Ant2	6995	-3.35	4.60	1.25	≤5.00	PASS
	Ant3	6995	-3.00	4.90	1.90	≤5.00	PASS
	Ant4	6995	-4.47	4.50	0.03	≤5.00	PASS
	total	6995	2.57	2.26	4.83	≤5.00	PASS
	Ant1	7095	-2.78	4.40	1.62	≤5.00	PASS
	Ant2	7095	-2.98	4.60	1.62	≤5.00	PASS
	Ant3	7095	-3.54	4.90	1.36	≤5.00	PASS
	Ant4	7095	-3.99	4.50	0.51	≤5.00	PASS
	total	7095	2.72	2.26	4.98	≤5.00	PASS
	Ant1	7115	-6.84	4.40	-2.44	≤5.00	PASS
	Ant2	7115	-7.11	4.60	-2.51	≤5.00	PASS
	Ant3	7115	-6.90	4.90	-2.00	≤5.00	PASS
	Ant4	7115	-7.85	4.50	-3.35	≤5.00	PASS
	total	7115	-1.14	2.26	1.12	≤5.00	PASS
11AX20MIMO	Ant1	5955	-2.91	4.40	1.49	≤5.00	PASS
	Ant2	5955	-3.01	4.60	1.59	≤5.00	PASS
	Ant3	5955	-3.46	4.90	1.44	≤5.00	PASS
	Ant4	5955	-4.44	4.50	0.06	≤5.00	PASS
	total	5955	2.61	2.26	4.87	≤5.00	PASS
	Ant1	6175	-3.14	4.40	1.26	≤5.00	PASS
	Ant2	6175	-3.24	4.60	1.36	≤5.00	PASS
	Ant3	6175	-3.22	4.90	1.68	≤5.00	PASS
	Ant4	6175	-4.23	4.50	0.27	≤5.00	PASS
	total	6175	2.59	2.26	4.85	≤5.00	PASS
	Ant1	6415	-2.00	4.40	2.40	≤5.00	PASS
	Ant2	6415	-4.18	4.60	0.42	≤5.00	PASS
	Ant3	6415	-3.03	4.90	1.87	≤5.00	PASS
	Ant4	6415	-4.92	4.50	-0.42	≤5.00	PASS
	total	6415	2.63	2.26	4.89	≤5.00	PASS
	Ant1	6435	-3.10	4.40	1.30	≤5.00	PASS

	Ant2	6435	-4.14	4.60	0.46	≤5.00	PASS
	Ant3	6435	-3.05	4.90	1.85	≤5.00	PASS
	Ant4	6435	-3.87	4.50	0.63	≤5.00	PASS
	total	6435	2.51	2.26	4.77	≤5.00	PASS
	Ant1	6475	-3.22	4.40	1.18	≤5.00	PASS
	Ant2	6475	-4.06	4.60	0.54	≤5.00	PASS
	Ant3	6475	-3.02	4.90	1.88	≤5.00	PASS
	Ant4	6475	-3.21	4.50	1.29	≤5.00	PASS
	total	6475	2.66	2.26	4.92	≤5.00	PASS
	Ant1	6515	-3.09	4.40	1.31	≤5.00	PASS
	Ant2	6515	-3.37	4.60	1.23	≤5.00	PASS
	Ant3	6515	-3.06	4.90	1.84	≤5.00	PASS
	Ant4	6515	-3.90	4.50	0.60	≤5.00	PASS
	total	6515	2.68	2.26	4.94	≤5.00	PASS
	Ant1	6535	-3.31	4.40	1.09	≤5.00	PASS
	Ant2	6535	-3.86	4.60	0.74	≤5.00	PASS
	Ant3	6535	-2.92	4.90	1.98	≤5.00	PASS
	Ant4	6535	-3.80	4.50	0.70	≤5.00	PASS
	total	6535	2.57	2.26	4.83	≤5.00	PASS
	Ant1	6695	-3.66	4.40	0.74	≤5.00	PASS
	Ant2	6695	-3.03	4.60	1.57	≤5.00	PASS
	Ant3	6695	-2.70	4.90	2.20	≤5.00	PASS
	Ant4	6695	-4.41	4.50	0.09	≤5.00	PASS
	total	6695	2.62	2.26	4.88	≤5.00	PASS
	Ant1	6855	-3.54	4.40	0.86	≤5.00	PASS
	Ant2	6855	-3.68	4.60	0.92	≤5.00	PASS
	Ant3	6855	-3.40	4.90	1.50	≤5.00	PASS
	Ant4	6855	-4.42	4.50	0.08	≤5.00	PASS
	total	6855	2.28	2.26	4.54	≤5.00	PASS
	Ant1	6895	-3.19	4.40	1.21	≤5.00	PASS
	Ant2	6895	-3.20	4.60	1.40	≤5.00	PASS
	Ant3	6895	-3.36	4.90	1.54	≤5.00	PASS
	Ant4	6895	-3.79	4.50	0.71	≤5.00	PASS
	total	6895	2.64	2.26	4.90	≤5.00	PASS
	Ant1	6995	-3.18	4.40	1.22	≤5.00	PASS
	Ant2	6995	-3.10	4.60	1.50	≤5.00	PASS
	Ant3	6995	-3.49	4.90	1.41	≤5.00	PASS
	Ant4	6995	-3.94	4.50	0.56	≤5.00	PASS
	total	6995	2.61	2.26	4.87	≤5.00	PASS
	Ant1	7095	-3.32	4.40	1.08	≤5.00	PASS
	Ant2	7095	-3.46	4.60	1.14	≤5.00	PASS
	Ant3	7095	-2.95	4.90	1.95	≤5.00	PASS
	Ant4	7095	-3.78	4.50	0.72	≤5.00	PASS

	total	7095	2.65	2.26	4.91	≤5.00	PASS
	Ant1	7115	-8.75	4.40	-4.35	≤5.00	PASS
	Ant2	7115	-8.63	4.60	-4.03	≤5.00	PASS
	Ant3	7115	-9.67	4.90	-4.77	≤5.00	PASS
	Ant4	7115	-9.60	4.50	-5.10	≤5.00	PASS
	total	7115	-3.12	2.26	-0.86	≤5.00	PASS
11AX40MIMO	Ant1	5965	-2.66	4.40	1.74	≤5.00	PASS
	Ant2	5965	-3.28	4.60	1.32	≤5.00	PASS
	Ant3	5965	-3.18	4.90	1.72	≤5.00	PASS
	Ant4	5965	-4.22	4.50	0.28	≤5.00	PASS
	total	5965	2.72	2.26	4.98	≤5.00	PASS
	Ant1	6165	-3.52	4.40	0.88	≤5.00	PASS
	Ant2	6165	-3.18	4.60	1.42	≤5.00	PASS
	Ant3	6165	-3.20	4.90	1.70	≤5.00	PASS
	Ant4	6165	-4.04	4.50	0.46	≤5.00	PASS
	total	6165	2.55	2.26	4.81	≤5.00	PASS
	Ant1	6405	-2.48	4.40	1.92	≤5.00	PASS
	Ant2	6405	-4.62	4.60	-0.02	≤5.00	PASS
	Ant3	6405	-3.12	4.90	1.78	≤5.00	PASS
	Ant4	6405	-4.11	4.50	0.39	≤5.00	PASS
	total	6405	2.52	2.26	4.78	≤5.00	PASS
	Ant1	6445	-3.30	4.40	1.10	≤5.00	PASS
	Ant2	6445	-3.74	4.60	0.86	≤5.00	PASS
	Ant3	6445	-2.92	4.90	1.98	≤5.00	PASS
	Ant4	6445	-3.63	4.50	0.87	≤5.00	PASS
	total	6445	2.63	2.26	4.89	≤5.00	PASS
	Ant1	6485	-3.61	4.40	0.79	≤5.00	PASS
	Ant2	6485	-3.53	4.60	1.07	≤5.00	PASS
	Ant3	6485	-2.84	4.90	2.06	≤5.00	PASS
	Ant4	6485	-3.66	4.50	0.84	≤5.00	PASS
	total	6485	2.62	2.26	4.88	≤5.00	PASS
	Ant1	6565	-3.76	4.40	0.64	≤5.00	PASS
	Ant2	6565	-3.39	4.60	1.21	≤5.00	PASS
	Ant3	6565	-2.97	4.90	1.93	≤5.00	PASS
	Ant4	6565	-3.54	4.50	0.96	≤5.00	PASS
	total	6565	2.62	2.26	4.88	≤5.00	PASS
	Ant1	6685	-3.99	4.40	0.41	≤5.00	PASS
	Ant2	6685	-3.00	4.60	1.60	≤5.00	PASS
	Ant3	6685	-3.06	4.90	1.84	≤5.00	PASS
	Ant4	6685	-4.23	4.50	0.27	≤5.00	PASS
	total	6685	2.48	2.26	4.74	≤5.00	PASS
	Ant1	6845	-3.77	4.40	0.63	≤5.00	PASS
	Ant2	6845	-3.26	4.60	1.34	≤5.00	PASS

	Ant3	6845	-3.16	4.90	1.74	≤5.00	PASS
	Ant4	6845	-3.90	4.50	0.60	≤5.00	PASS
	total	6845	2.51	2.26	4.77	≤5.00	PASS
	Ant1	6925	-3.48	4.40	0.92	≤5.00	PASS
	Ant2	6925	-3.18	4.60	1.42	≤5.00	PASS
	Ant3	6925	-3.55	4.90	1.35	≤5.00	PASS
	Ant4	6925	-4.48	4.50	0.02	≤5.00	PASS
	total	6925	2.37	2.26	4.63	≤5.00	PASS
	Ant1	6965	-3.51	4.40	0.89	≤5.00	PASS
	Ant2	6965	-2.98	4.60	1.62	≤5.00	PASS
	Ant3	6965	-3.26	4.90	1.64	≤5.00	PASS
	Ant4	6965	-4.20	4.50	0.30	≤5.00	PASS
	total	6965	2.56	2.26	4.82	≤5.00	PASS
	Ant1	7085	-3.25	4.40	1.15	≤5.00	PASS
	Ant2	7085	-3.01	4.60	1.59	≤5.00	PASS
	Ant3	7085	-3.07	4.90	1.83	≤5.00	PASS
	Ant4	7085	-4.20	4.50	0.30	≤5.00	PASS
	total	7085	2.66	2.26	4.92	≤5.00	PASS
11AX80MIMO	Ant1	5985	-3.63	4.40	0.77	≤5.00	PASS
	Ant2	5985	-3.66	4.60	0.94	≤5.00	PASS
	Ant3	5985	-3.56	4.90	1.34	≤5.00	PASS
	Ant4	5985	-3.84	4.50	0.66	≤5.00	PASS
	total	5985	2.35	2.26	4.61	≤5.00	PASS
	Ant1	6145	-3.40	4.40	1.00	≤5.00	PASS
	Ant2	6145	-3.63	4.60	0.97	≤5.00	PASS
	Ant3	6145	-3.06	4.90	1.84	≤5.00	PASS
	Ant4	6145	-3.78	4.50	0.72	≤5.00	PASS
	total	6145	2.56	2.26	4.82	≤5.00	PASS
	Ant1	6385	-2.90	4.40	1.50	≤5.00	PASS
	Ant2	6385	-4.50	4.60	0.10	≤5.00	PASS
	Ant3	6385	-3.19	4.90	1.71	≤5.00	PASS
	Ant4	6385	-4.10	4.50	0.40	≤5.00	PASS
	total	6385	2.40	2.26	4.66	≤5.00	PASS
	Ant1	6465	-2.78	4.40	1.62	≤5.00	PASS
	Ant2	6465	-5.11	4.60	-0.51	≤5.00	PASS
	Ant3	6465	-2.89	4.90	2.01	≤5.00	PASS
	Ant4	6465	-3.41	4.50	1.09	≤5.00	PASS
	total	6465	2.57	2.26	4.83	≤5.00	PASS
	Ant1	6625	-3.43	4.40	0.97	≤5.00	PASS
	Ant2	6625	-3.84	4.60	0.76	≤5.00	PASS
	Ant3	6625	-2.28	4.90	2.62	≤5.00	PASS
	Ant4	6625	-3.94	4.50	0.56	≤5.00	PASS
	total	6625	2.70	2.26	4.96	≤5.00	PASS

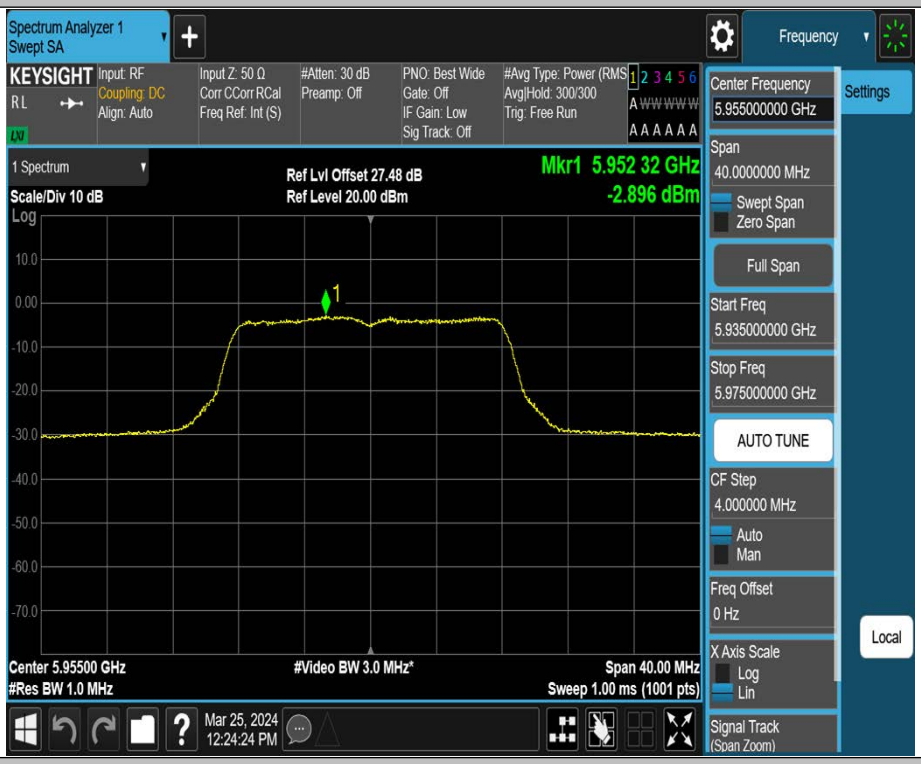
	Ant1	6705	-3.44	4.40	0.96	≤5.00	PASS
	Ant2	6705	-3.66	4.60	0.94	≤5.00	PASS
	Ant3	6705	-3.02	4.90	1.88	≤5.00	PASS
	Ant4	6705	-3.84	4.50	0.66	≤5.00	PASS
	total	6705	2.54	2.26	4.80	≤5.00	PASS
	Ant1	6785	-3.64	4.40	0.76	≤5.00	PASS
	Ant2	6785	-3.63	4.60	0.97	≤5.00	PASS
	Ant3	6785	-2.82	4.90	2.08	≤5.00	PASS
	Ant4	6785	-3.88	4.50	0.62	≤5.00	PASS
	total	6785	2.55	2.26	4.81	≤5.00	PASS
	Ant1	6945	-3.34	4.40	1.06	≤5.00	PASS
	Ant2	6945	-3.16	4.60	1.44	≤5.00	PASS
	Ant3	6945	-3.27	4.90	1.63	≤5.00	PASS
	Ant4	6945	-4.14	4.50	0.36	≤5.00	PASS
	total	6945	2.56	2.26	4.82	≤5.00	PASS
	Ant1	7025	-3.03	4.40	1.37	≤5.00	PASS
	Ant2	7025	-3.60	4.60	1.00	≤5.00	PASS
	Ant3	7025	-3.42	4.90	1.48	≤5.00	PASS
	Ant4	7025	-4.07	4.50	0.43	≤5.00	PASS
	total	7025	2.51	2.26	4.77	≤5.00	PASS
11AX160MIMO	Ant1	6025	-2.82	4.40	1.58	≤5.00	PASS
	Ant2	6025	-3.17	4.60	1.43	≤5.00	PASS
	Ant3	6025	-3.15	4.90	1.75	≤5.00	PASS
	Ant4	6025	-4.31	4.50	0.19	≤5.00	PASS
	total	6025	2.69	2.26	4.95	≤5.00	PASS
	Ant1	6185	-3.57	4.40	0.83	≤5.00	PASS
	Ant2	6185	-3.47	4.60	1.13	≤5.00	PASS
	Ant3	6185	-3.12	4.90	1.78	≤5.00	PASS
	Ant4	6185	-3.60	4.50	0.90	≤5.00	PASS
	total	6185	2.58	2.26	4.84	≤5.00	PASS
	Ant1	6345	-3.56	4.40	0.84	≤5.00	PASS
	Ant2	6345	-3.21	4.60	1.39	≤5.00	PASS
	Ant3	6345	-3.65	4.90	1.25	≤5.00	PASS
	Ant4	6345	-4.17	4.50	0.33	≤5.00	PASS
	total	6345	2.39	2.26	4.65	≤5.00	PASS
	Ant1	6665	-3.43	4.40	0.97	≤5.00	PASS
	Ant2	6665	-3.22	4.60	1.38	≤5.00	PASS
	Ant3	6665	-3.10	4.90	1.80	≤5.00	PASS
	Ant4	6665	-3.81	4.50	0.69	≤5.00	PASS
	total	6665	2.64	2.26	4.90	≤5.00	PASS
	Ant1	6985	-3.59	4.40	0.81	≤5.00	PASS
	Ant2	6985	-3.09	4.60	1.51	≤5.00	PASS
	Ant3	6985	-3.15	4.90	1.75	≤5.00	PASS

	Ant4	6985	-3.45	4.50	1.05	≤5.00	PASS
	total	6985	2.71	2.26	4.97	≤5.00	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[($10^{G1\ phi\ /20}$ + $10^{G2\ phi\ /20}$ + … + $10^{GN\ phi\ /20}$) / NANT+($10^{G1\ theta\ /20}$ + $10^{G2\ theta\ /20}$ + … + $10^{GN\ theta\ /20}$)^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 = 2.26dBi

Beamforming e.i.r.p. less than no beamforming e.i.r.p., so only no beamforming e.i.r.p spectral density was recorded.

11A-CDD_Ant1_5955

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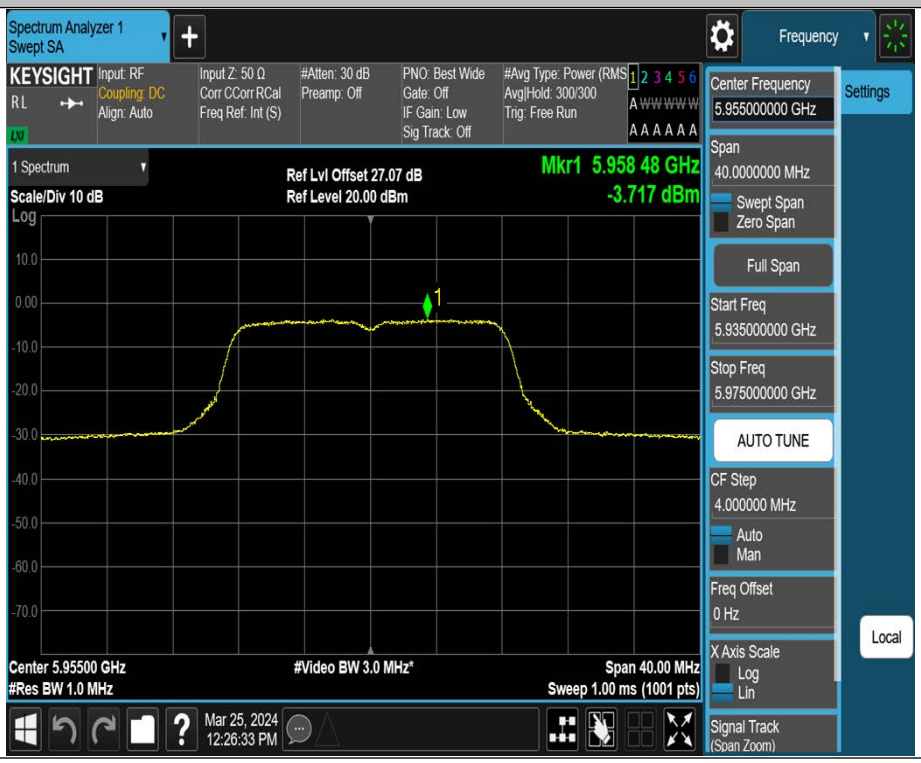

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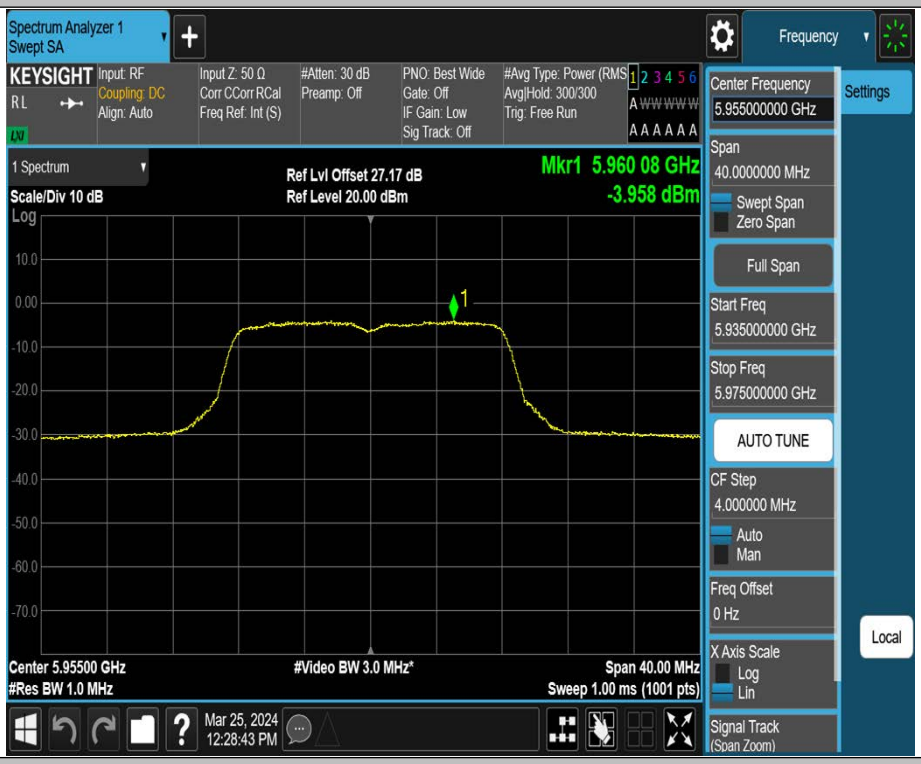
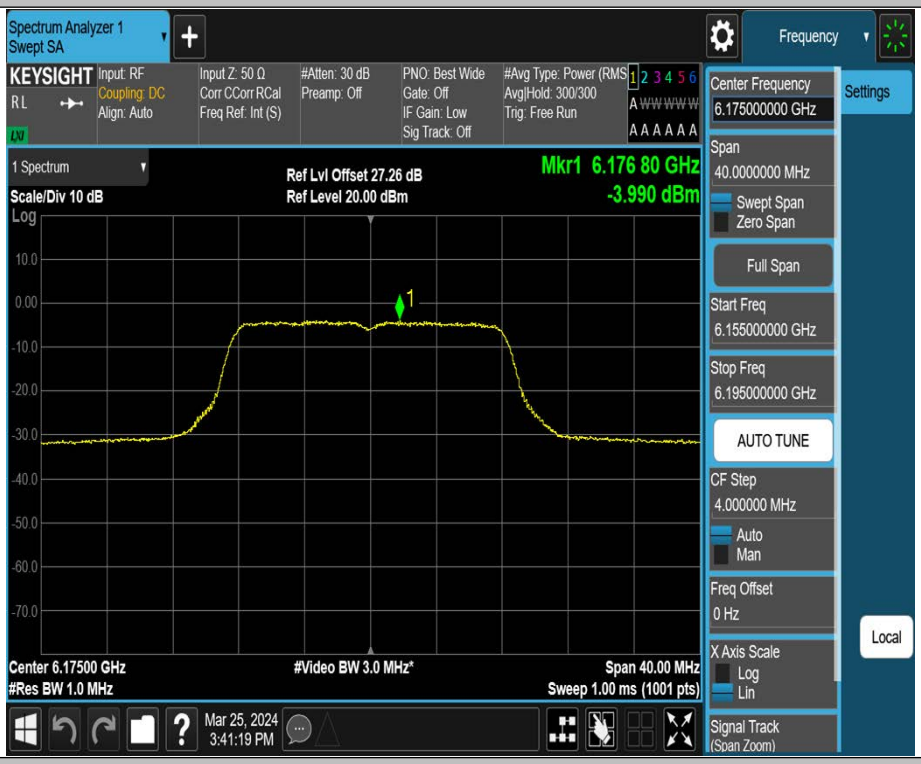

11A-CDD_Ant4_5955


11A-CDD_Ant1_6175

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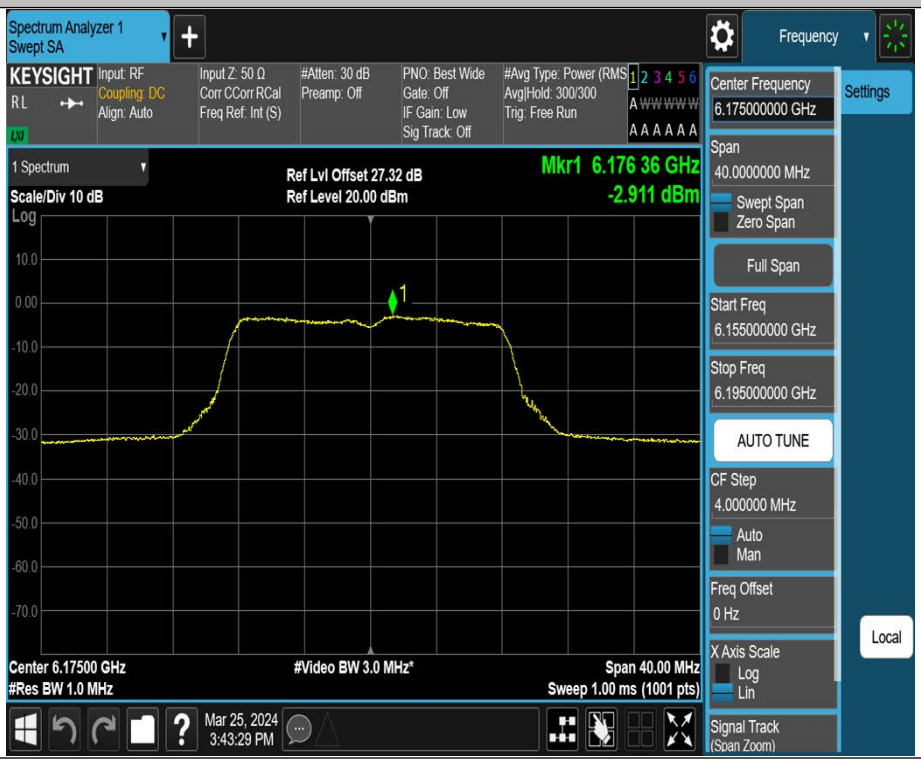

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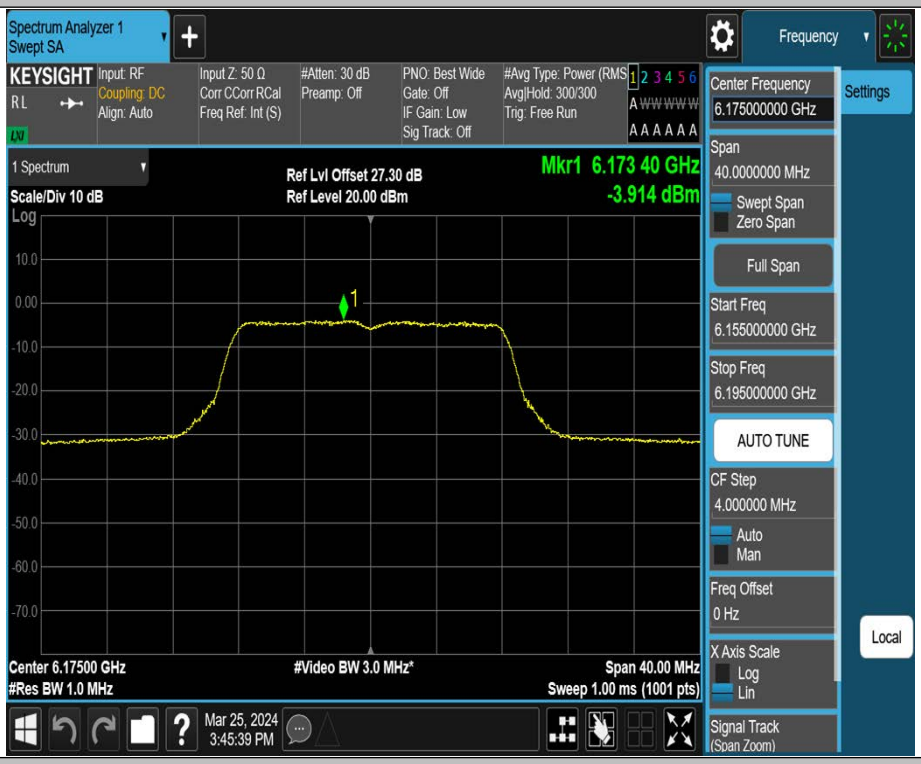
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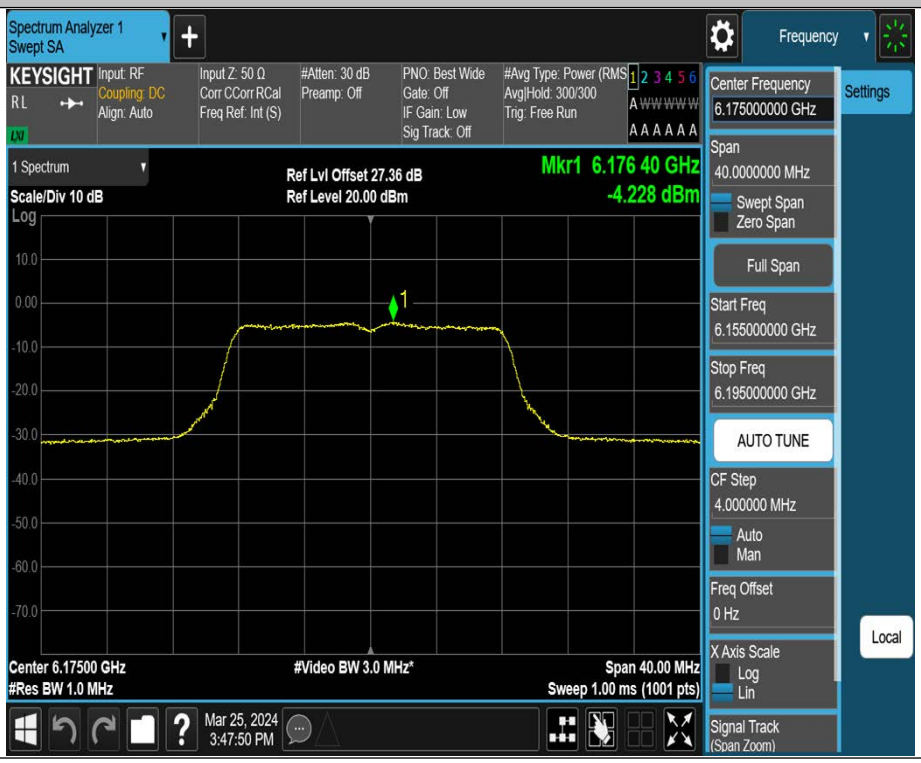

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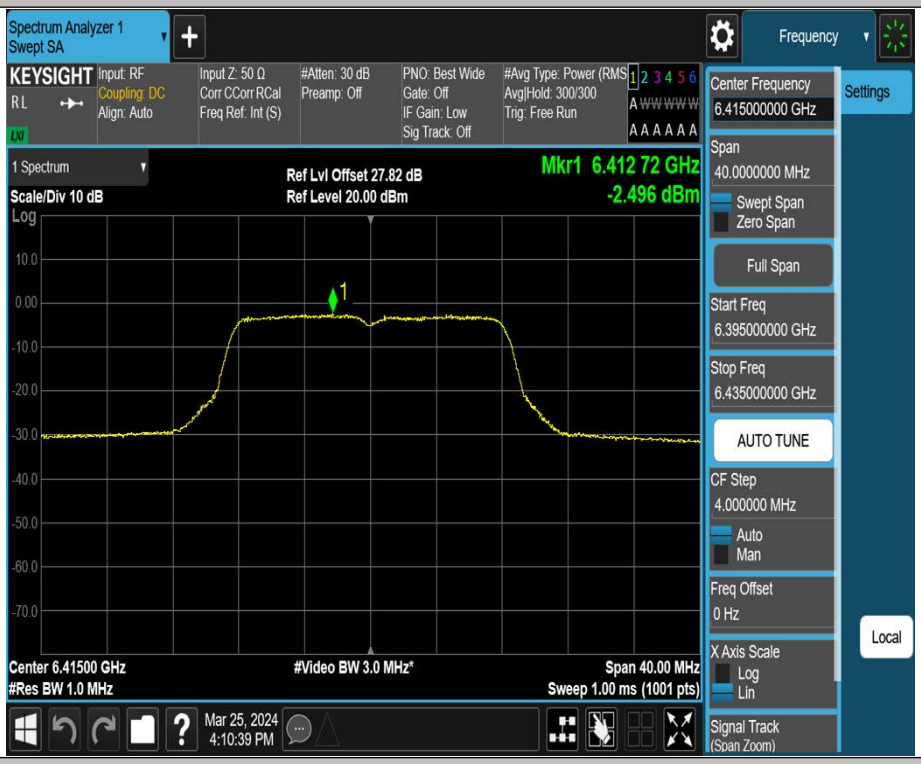
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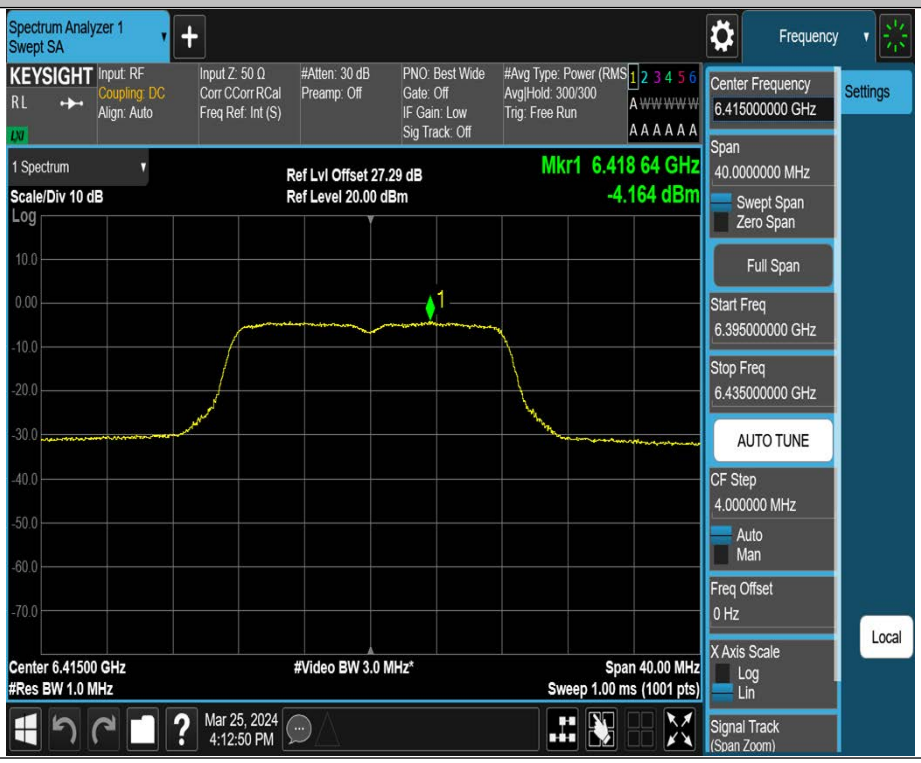

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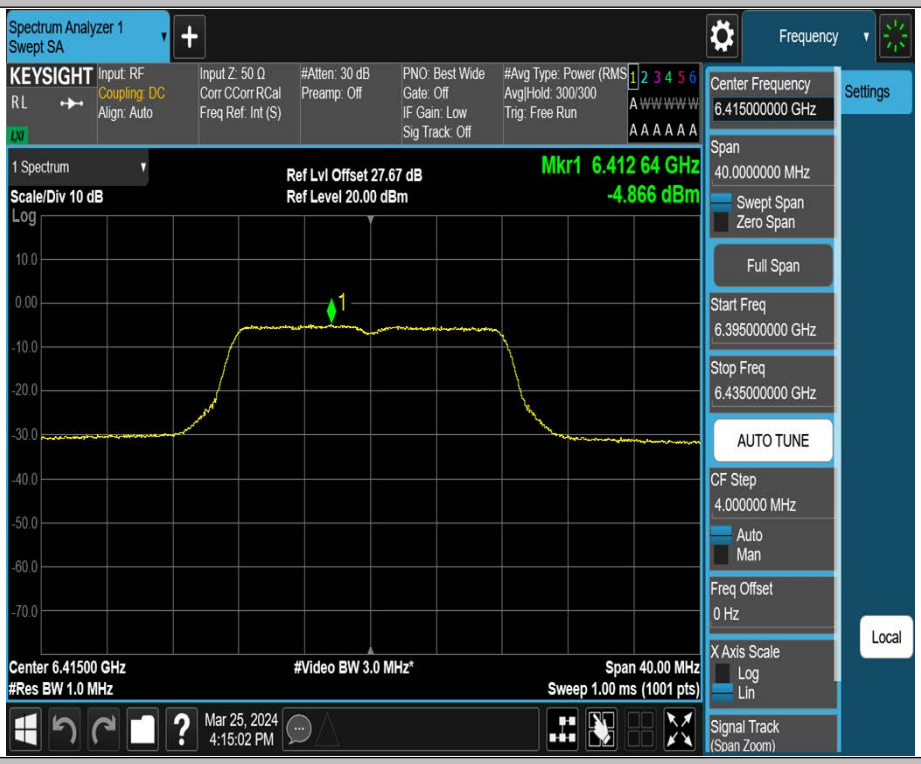
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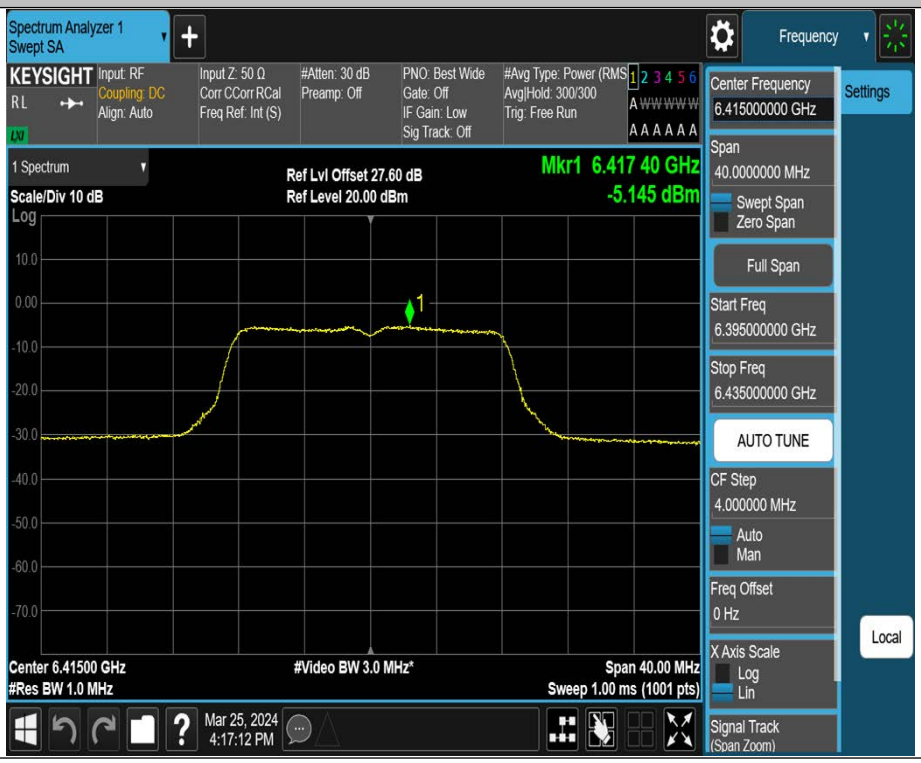

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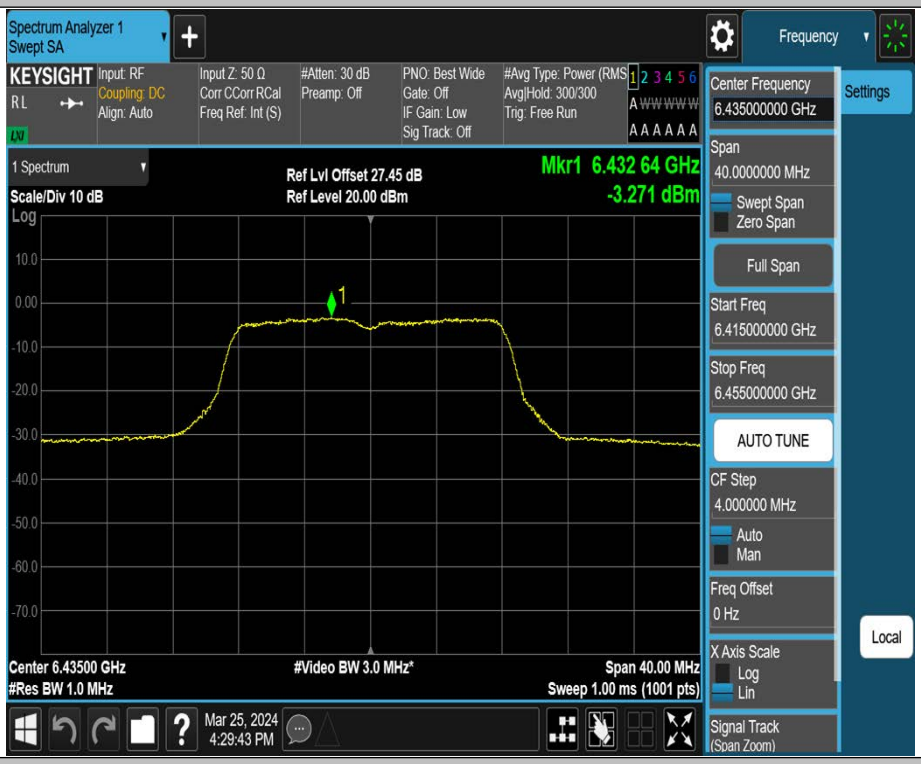

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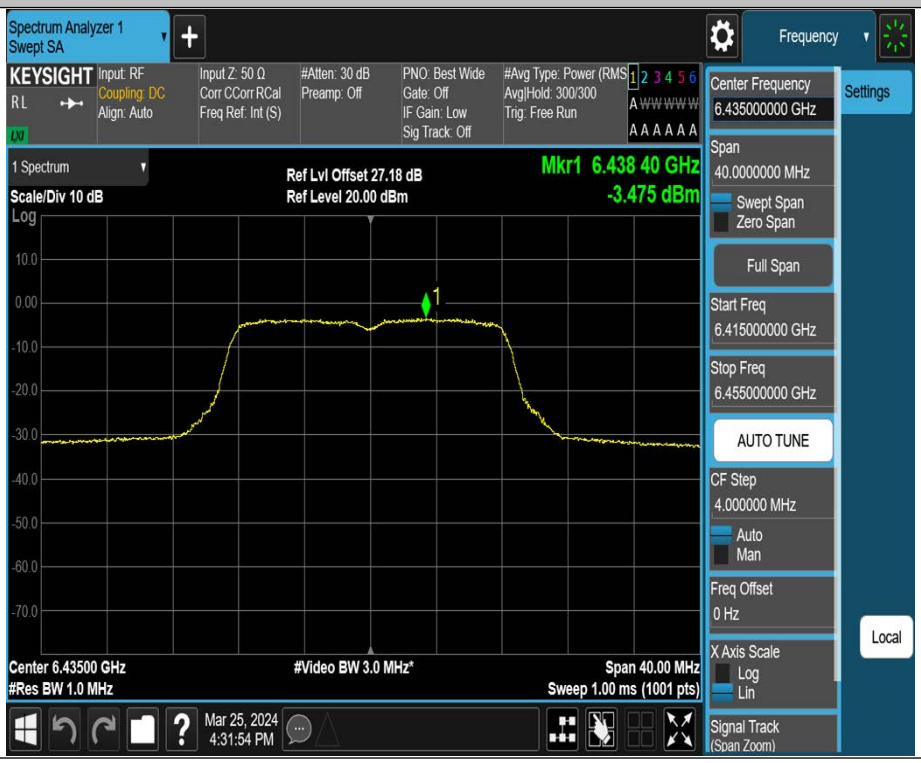

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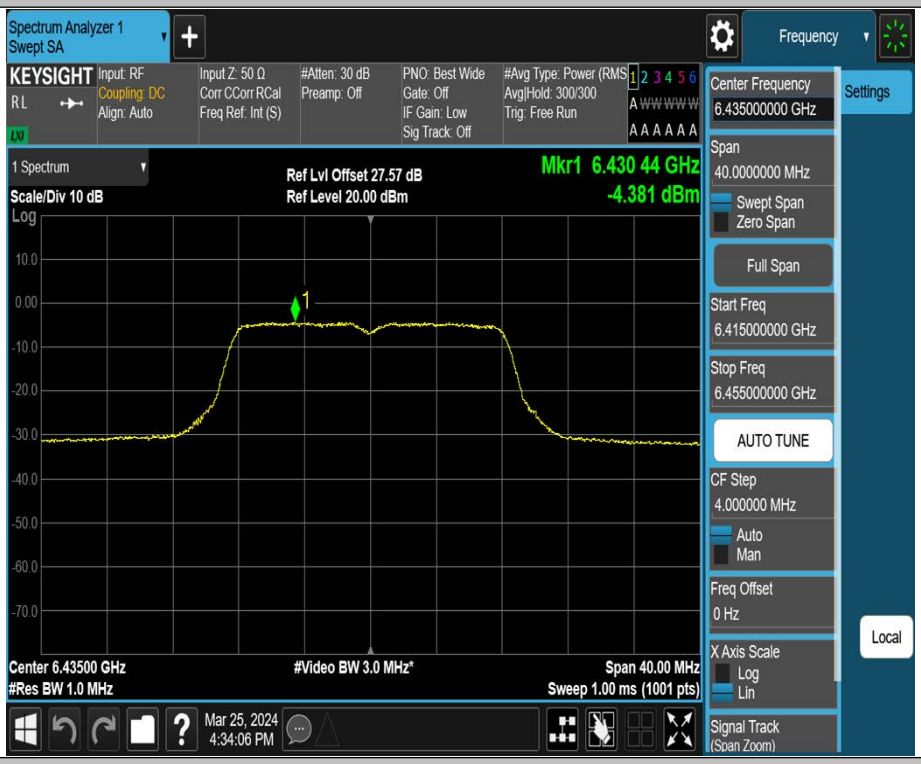

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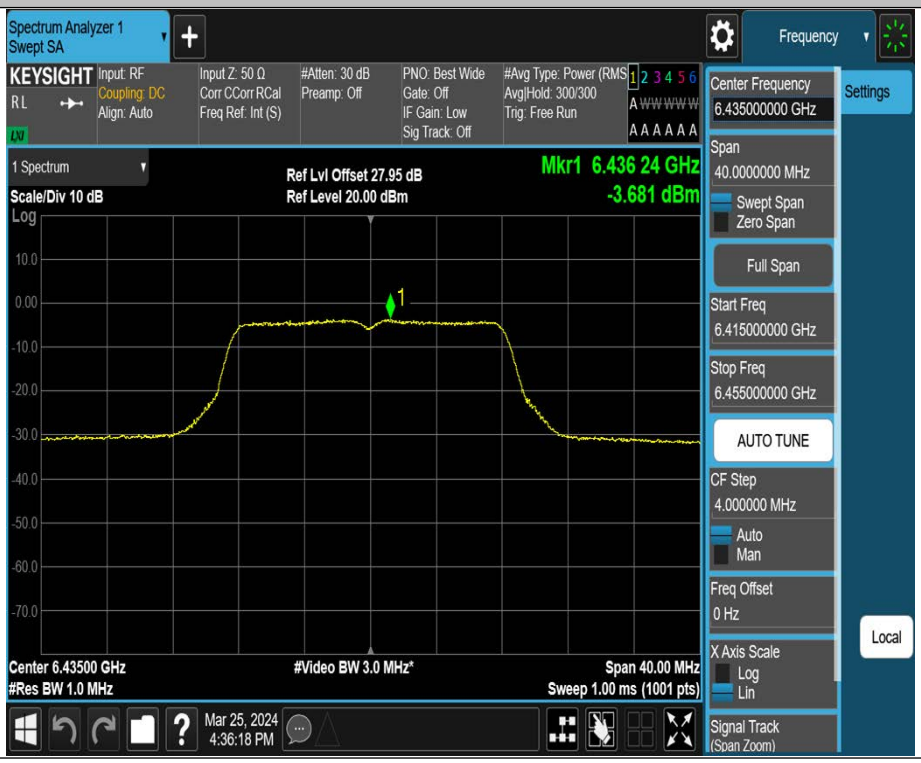

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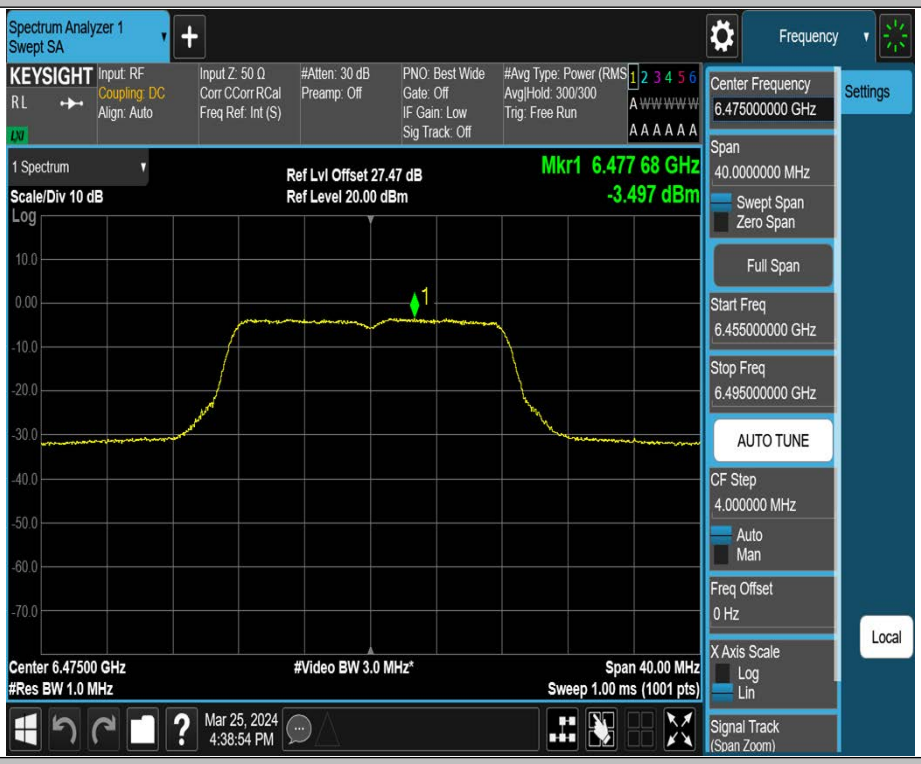
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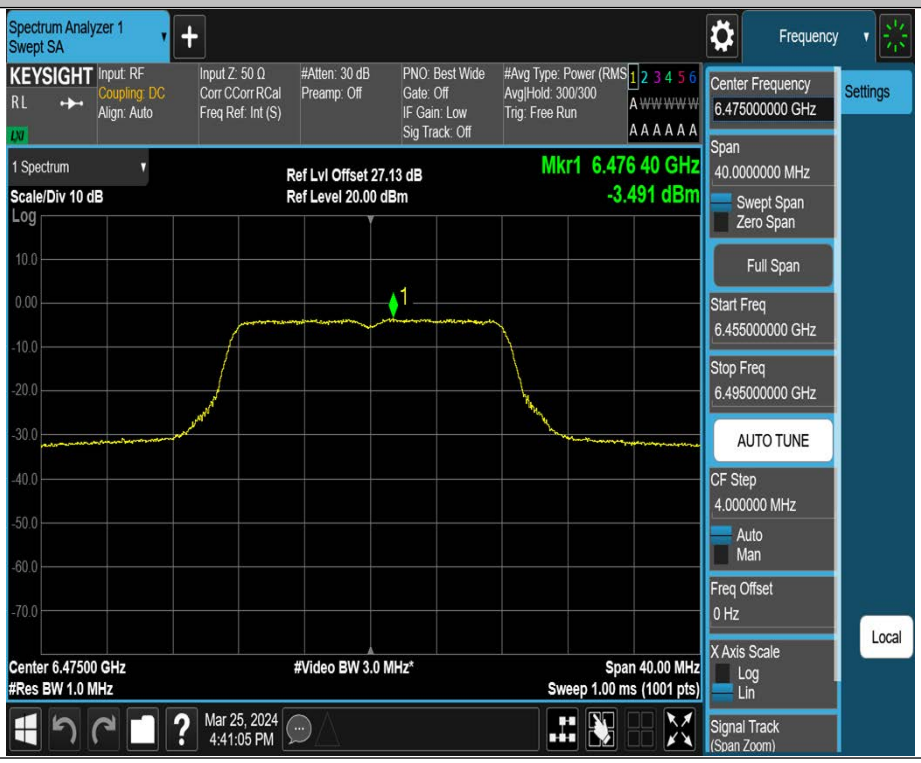

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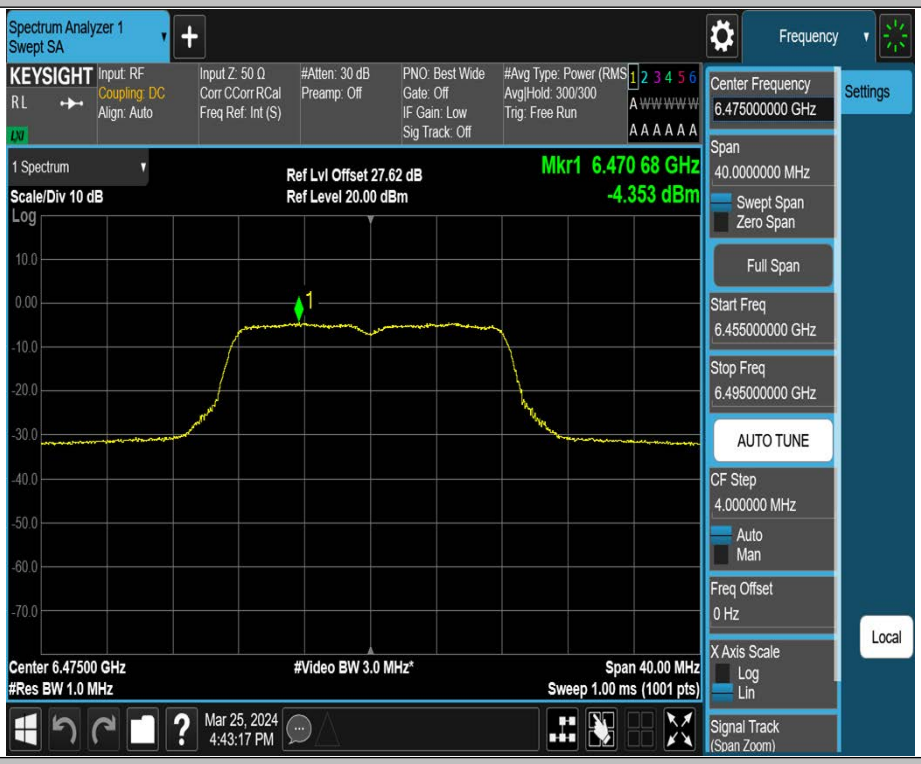

11A-CDD_Ant4_6475