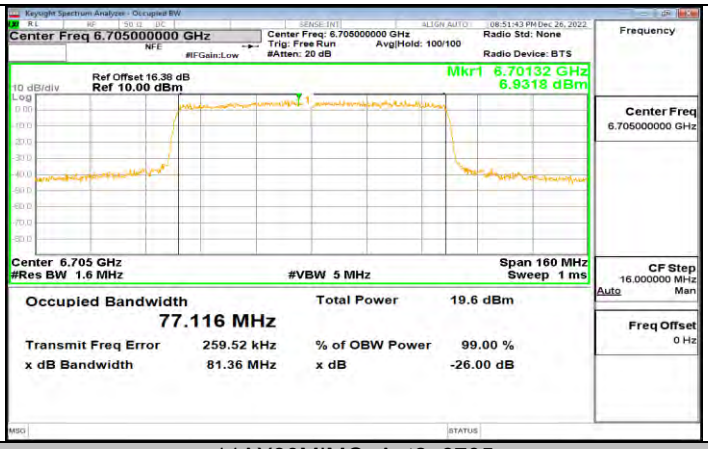

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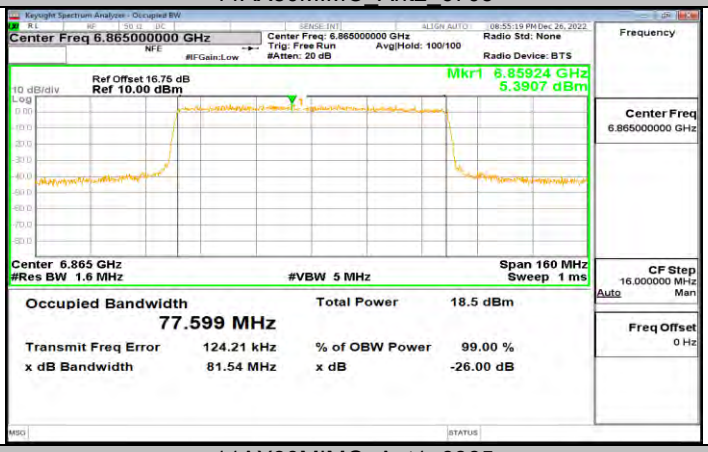

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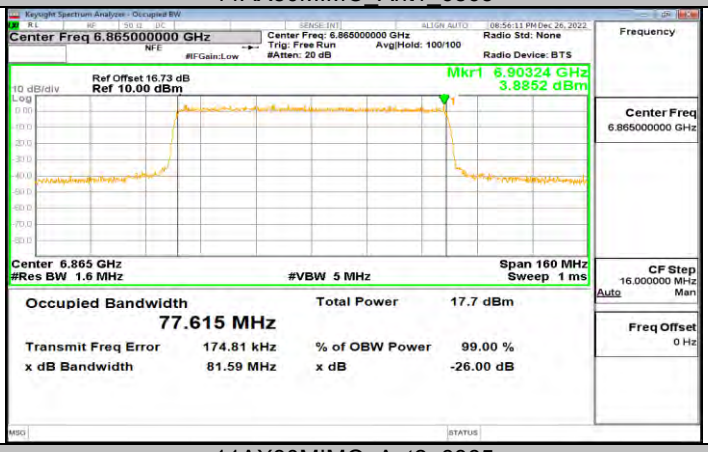

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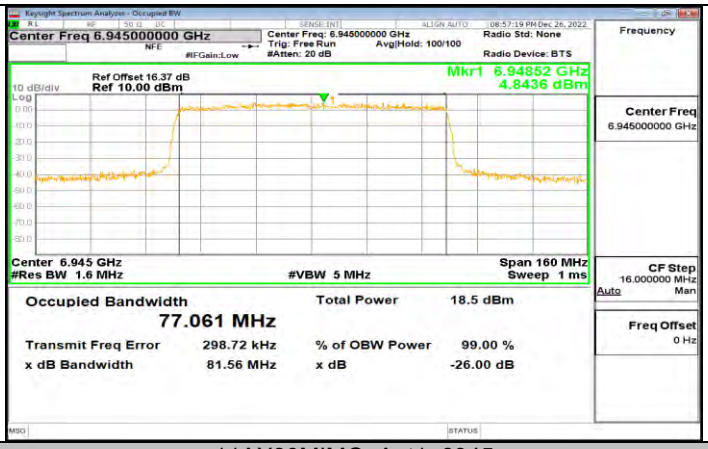

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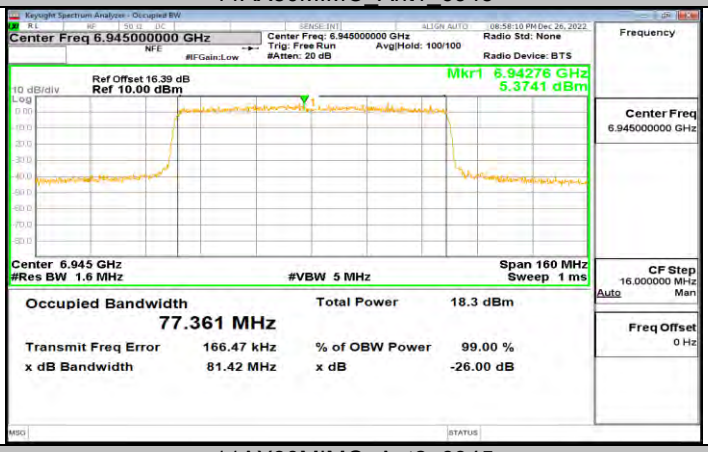

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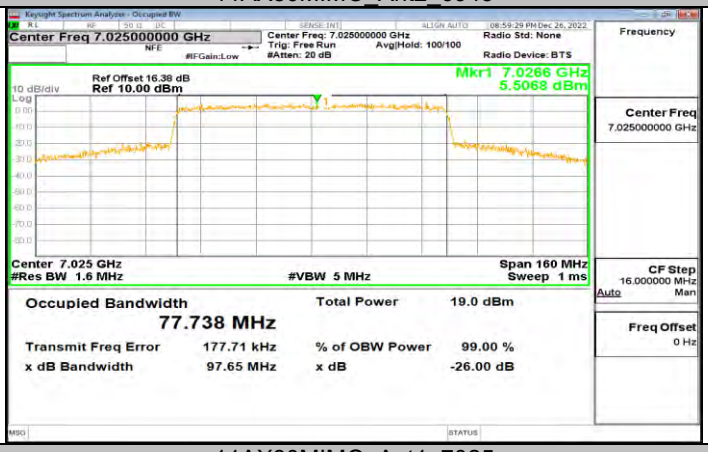

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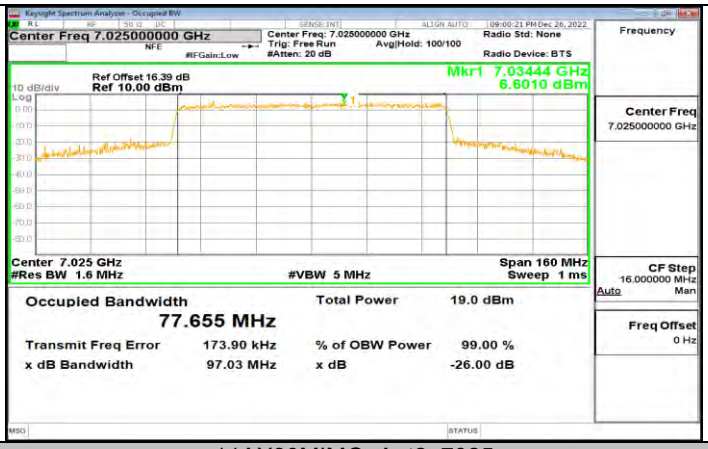

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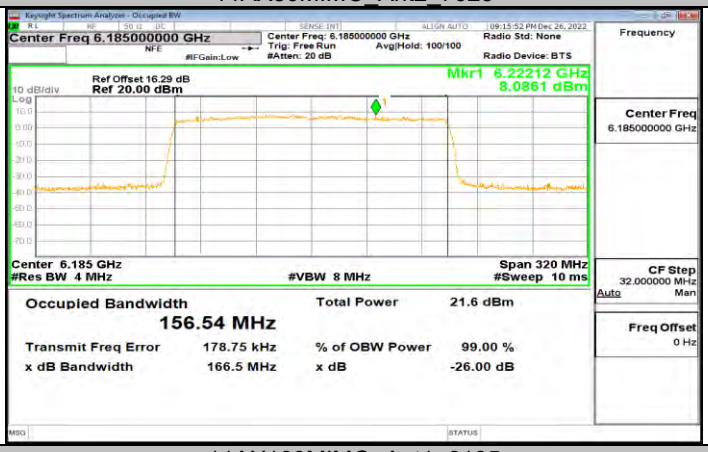

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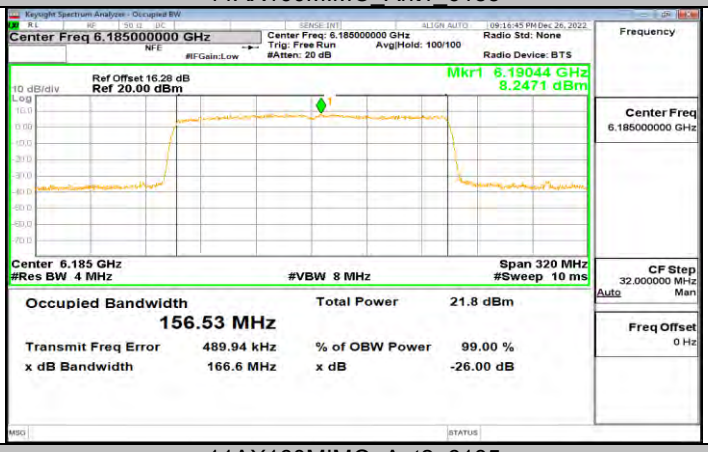

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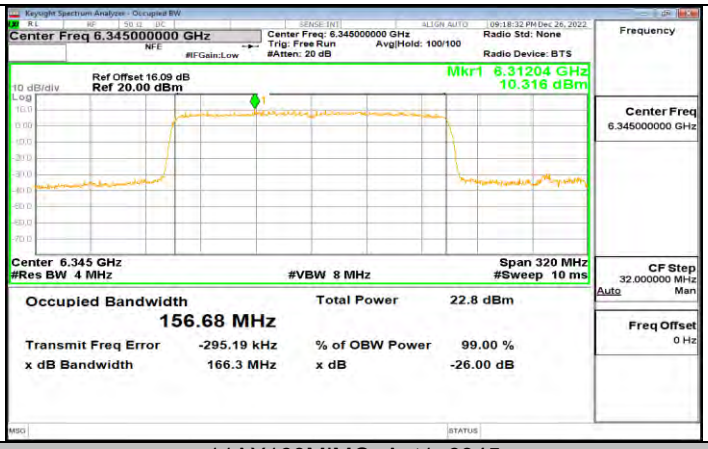

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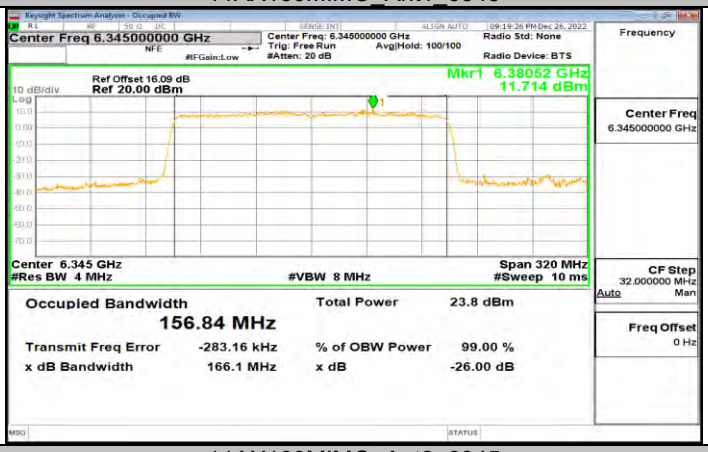

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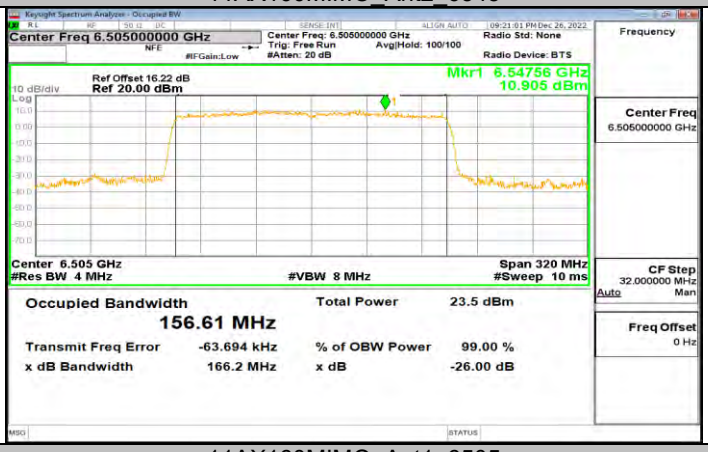

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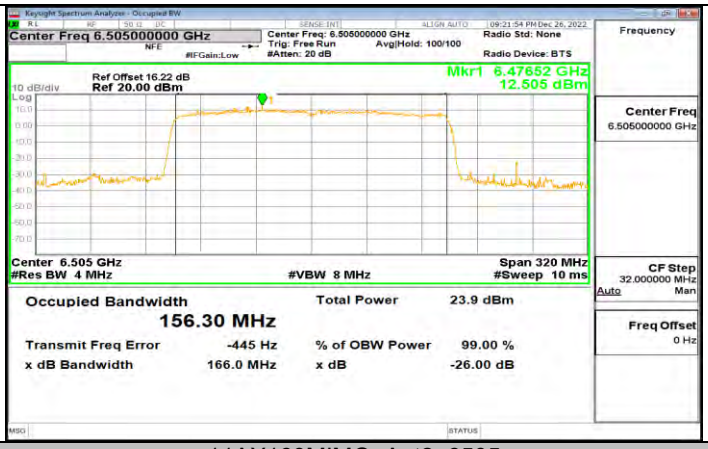

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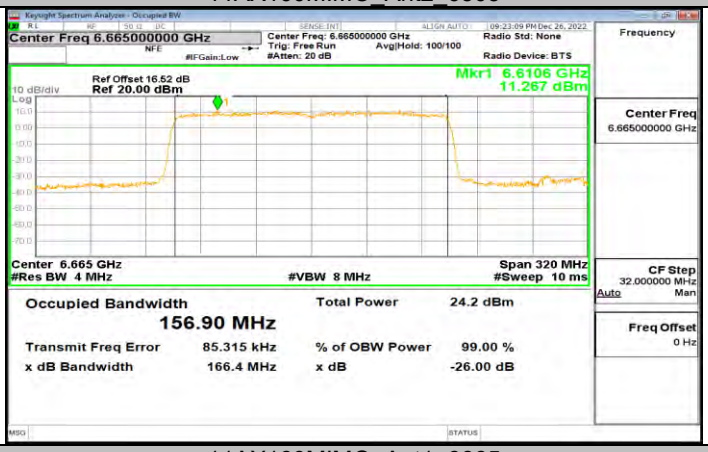

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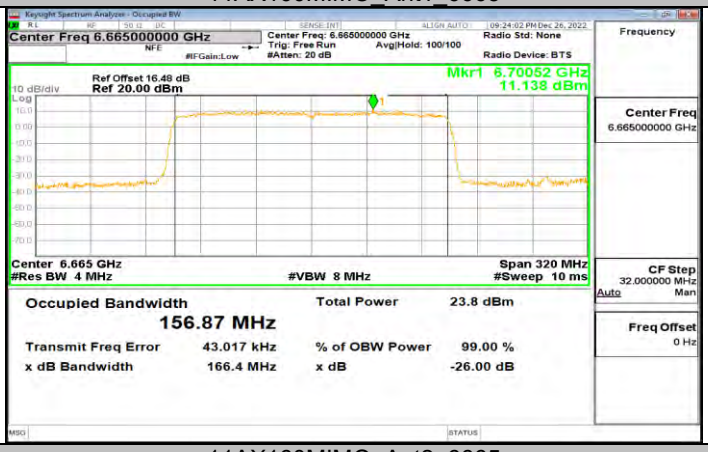

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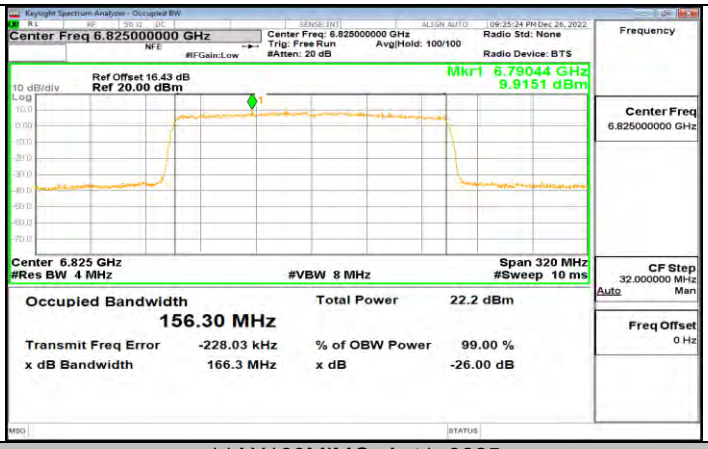

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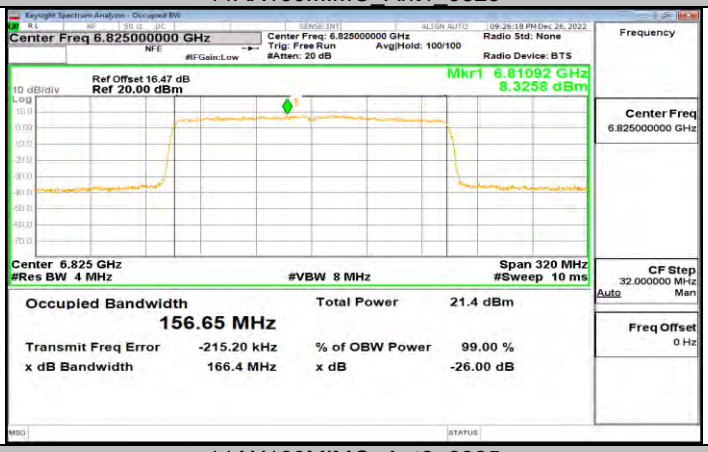

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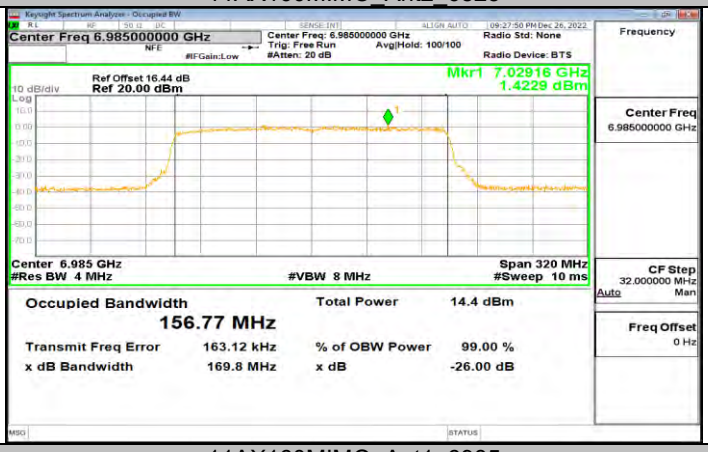

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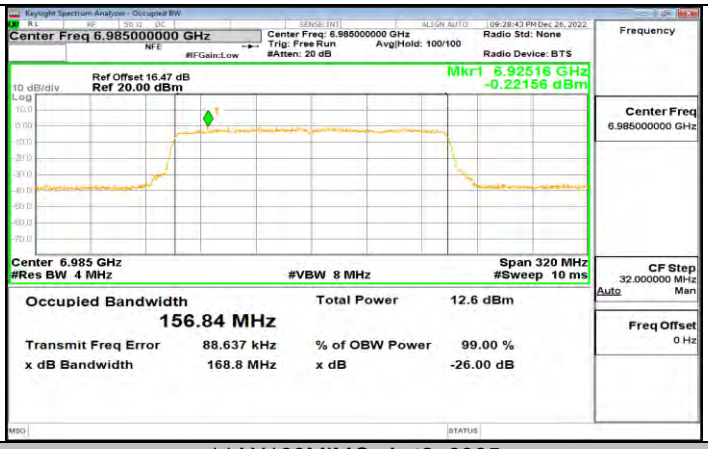

11AX160MIMO_Ant2_6985

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12.3. Appendix B: Duty Cycle

12.3.1. Test Result

Test Mode	On Time (msec)	Period (msec)	Duty Cycle x (Linear)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	1/T Minimum VBW (kHz)	Final setting For VBW (kHz)
11AX20MIMO	0.56	0.62	0.9032	90.32	0.44	1.79	2
11AX40MIMO	0.20	0.26	0.7692	76.92	1.14	5.00	6
11AX80MIMO	0.19	0.24	0.7917	79.17	1.01	5.26	6
11AX160MIMO	0.41	0.47	0.8723	87.23	0.59	2.44	3

Note:
Duty Cycle Correction Factor=10log (1/x).
Where: x is Duty Cycle (Linear)
Where: T is On Time
If that calculated VBW is not available on the analyzer then the next higher value should be used.

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12.3.2. Test Graphs

11AX20MIMO_Ant1_6115

11AX40MIMO_Ant1_6125

11AX80MIMO_Ant1_6225

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11AX160MIMO_Ant1_6185

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12.4. Appendix C: Maximum Average Conducted Output Power

12.4.1. Test Result

Mode	Frequency (MHz)	Conducted Average Output Power (dBm)			EIRP (dBm)	Limit (dBm)
		ANT1	ANT2	Total		
802.11ax HE20	6115	7.49	8.31	10.93	15.94	30
	6275	7.28	8.26	10.81	15.82	30
	6415	7.28	8.03	10.68	15.69	30
	6435	8.32	8.66	11.50	16.51	30
	6475	8.24	8.39	11.33	16.34	30
	6515	7.13	9.48	11.49	16.50	30
	6535	6.49	9.17	11.04	16.05	30
	6715	8.96	8.66	11.82	16.83	30
	6875	7.32	9.14	11.33	16.34	30
	6895	8.00	8.45	11.24	16.25	30
	7015	7.31	8.47	10.94	15.95	30
	7095	8.52	7.66	11.12	16.13	30
802.11ax HE40	6125	11.64	11.61	14.64	19.65	30
	6285	10.78	11.30	14.06	19.07	30
	6405	10.36	11.24	13.83	18.84	30
	6445	10.46	10.83	13.66	18.67	30
	6485	10.73	11.54	14.16	19.17	30
	6525	9.46	11.67	13.71	18.72	30
	6725	11.87	11.01	14.47	19.48	30
	6845	10.91	12.37	14.71	19.72	30
	6885	11.19	11.92	14.58	19.59	30
	7005	10.67	11.87	14.32	19.33	30
	7085	10.86	10.96	13.92	18.93	30
802.11ax HE80	6145	12.96	13.91	16.47	21.48	30
	6225	13.43	15.52	17.61	22.62	30
	6385	13.24	15.06	17.25	22.26	30
	6465	13.09	14.34	16.77	21.78	30
	6545	12.87	15.72	17.54	22.55	30
	6705	14.38	15.06	17.74	22.75	30
	6865	13.04	15.38	17.38	22.39	30
	6945	12.95	14.67	16.90	21.91	30
	7025	13.22	14.76	17.07	22.08	30
802.11ax HE160	6185	15.95	16.98	19.51	24.52	30
	6345	15.18	16.93	19.15	24.16	30
	6505	15.16	16.89	19.12	24.13	30

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	6665	15.94	16.48	19.23	24.24	30
	6825	15.91	17.01	19.51	24.52	30
	6985	15.25	16.81	19.11	24.12	30

Note: 1. Conducted Power=Meas. Level+ Correction Factor
2. The Duty Cycle Factor (refer to section 7.1) had already compensated to the test data.

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12.4.1. Appendix D: Maximum Power Spectral Density

12.4.2. Test Result

Mode	Frequency (MHz)	PSD (dBm/MHz)			EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)
		ANT1	ANT2	Total		
802.11ax HE20	6115	-4.43	-3.71	-1.04	3.97	5
	6275	-4.28	-3.65	-0.94	4.07	5
	6415	-4.50	-3.70	-1.07	3.94	5
	6435	-3.57	-3.36	-0.45	4.56	5
	6475	-3.64	-3.52	-0.57	4.44	5
	6515	-4.40	-2.32	-0.23	4.78	5
	6535	-5.35	-2.84	-0.91	4.10	5
	6715	-3.03	-3.28	-0.14	4.87	5
	6875	-4.41	-2.66	-0.44	4.57	5
	6895	-3.57	-3.08	-0.31	4.70	5
	7015	-4.18	-3.19	-0.65	4.36	5
	7095	-3.13	-4.31	-0.67	4.34	5
802.11ax HE40	6125	-3.19	-3.66	-0.41	4.60	5
	6285	-3.82	-3.24	-0.51	4.50	5
	6405	-4.18	-3.20	-0.65	4.36	5
	6445	-3.96	-4.01	-0.97	4.04	5
	6485	-3.27	-2.89	-0.07	4.94	5
	6525	-5.39	-2.99	-1.02	3.99	5
	6725	-3.08	-3.95	-0.48	4.53	5
	6845	-4.03	-2.43	-0.15	4.86	5
	6885	-3.57	-3.07	-0.30	4.71	5
	7005	-3.89	-2.82	-0.31	4.70	5
	7085	-3.85	-4.13	-0.98	4.03	5
802.11ax HE80	6145	-4.60	-3.52	-1.02	3.99	5
	6225	-4.51	-2.25	-0.22	4.79	5
	6385	-4.49	-2.59	-0.43	4.58	5
	6465	-4.42	-3.72	-1.05	3.96	5
	6545	-5.75	-2.17	-0.30	4.71	5
	6705	-3.37	-2.92	-0.13	4.88	5
	6865	-4.81	-2.50	-0.49	4.52	5
	6945	-4.52	-2.99	-0.68	4.33	5
	7025	-4.25	-2.60	-0.34	4.67	5
802.11ax HE160	6185	-3.62	-3.04	-0.31	4.70	5
	6345	-4.91	-2.71	-0.66	4.35	5
	6505	-4.18	-2.92	-0.49	4.52	5
	6665	-4.43	-3.68	-1.03	3.98	5

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	6825	-4.32	-2.92	-0.55	4.46	5
	6985	-4.80	-3.22	-0.93	4.08	5

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

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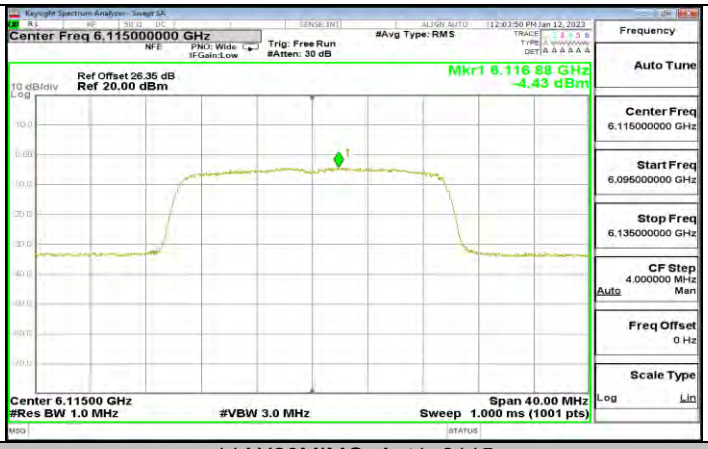
12.4.3. Test Graphs



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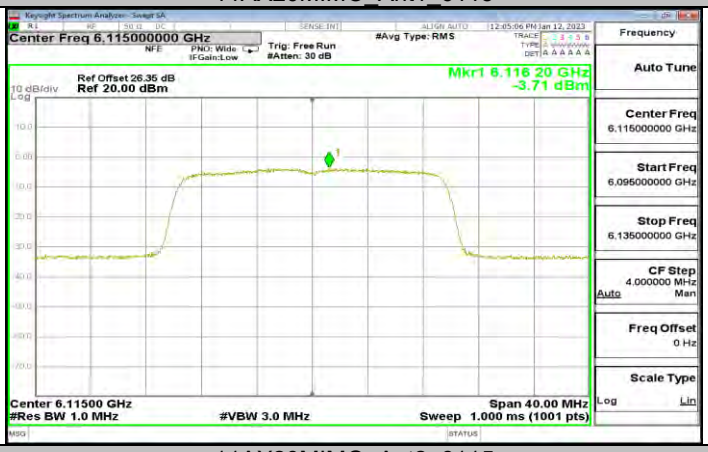

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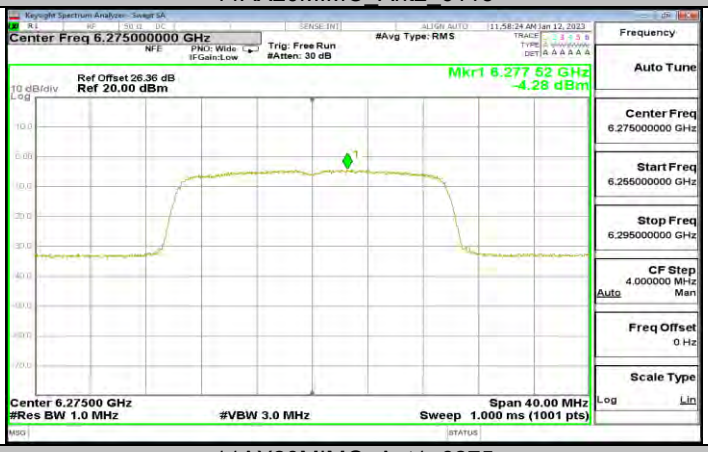

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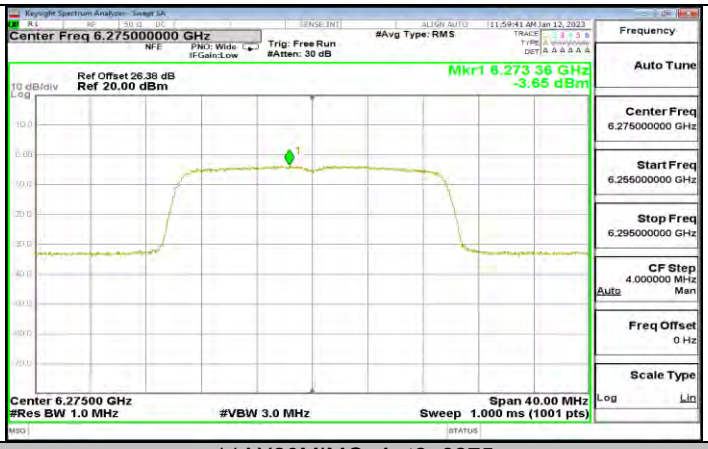

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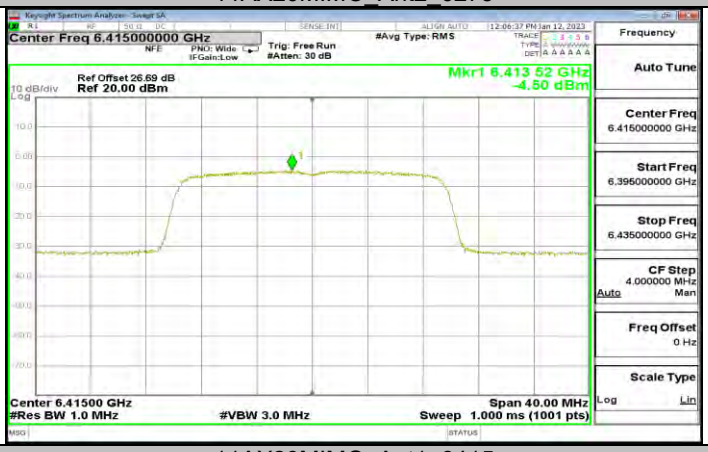

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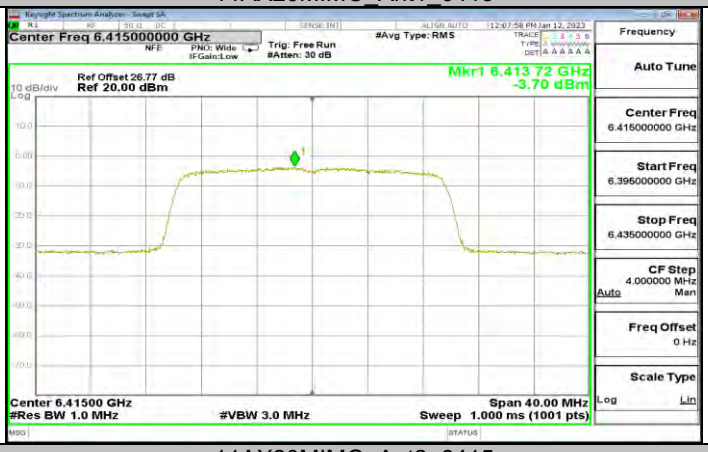

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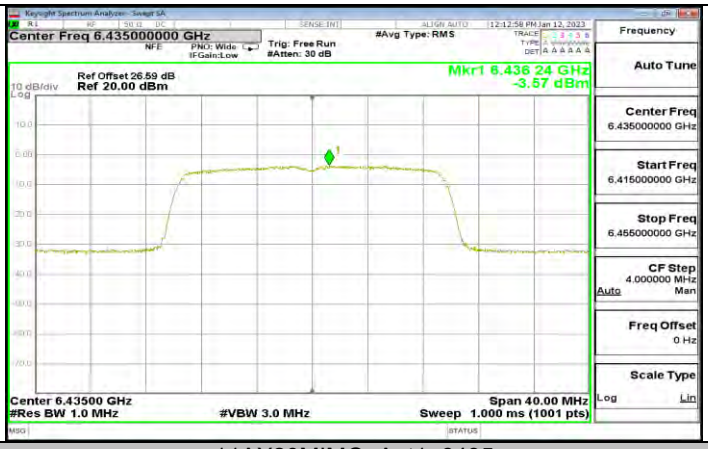

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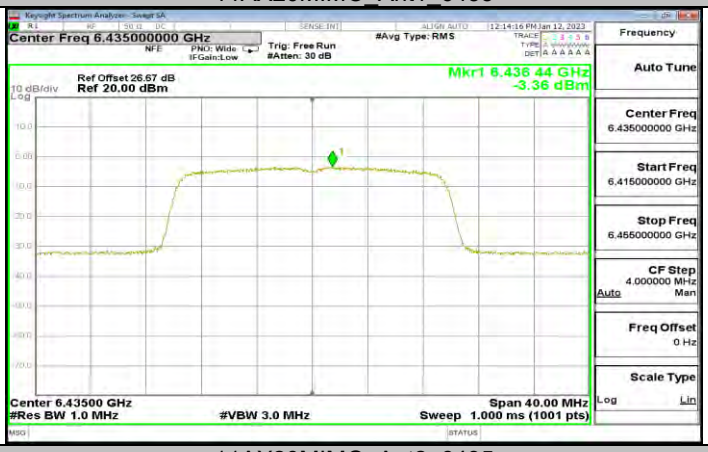

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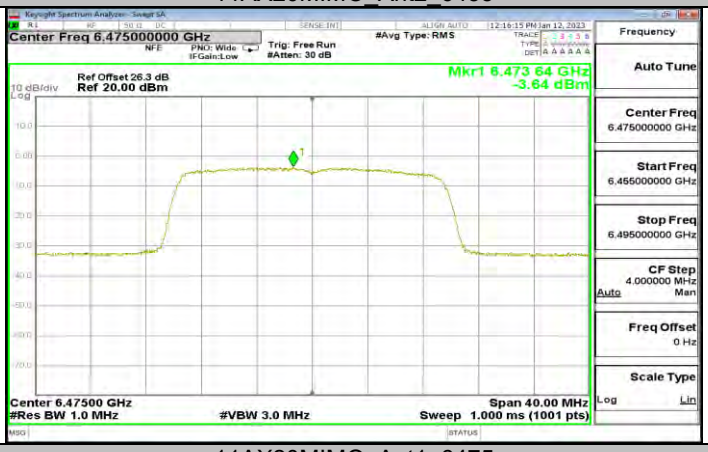

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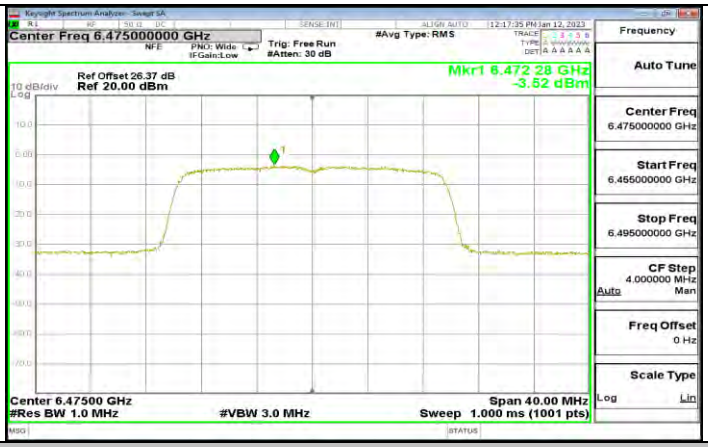

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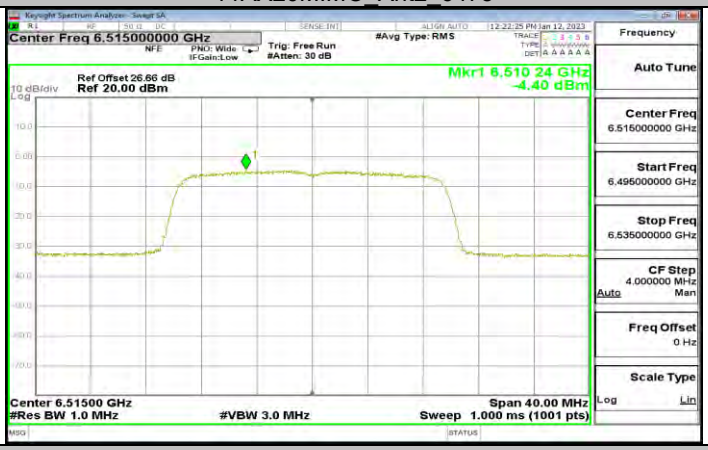

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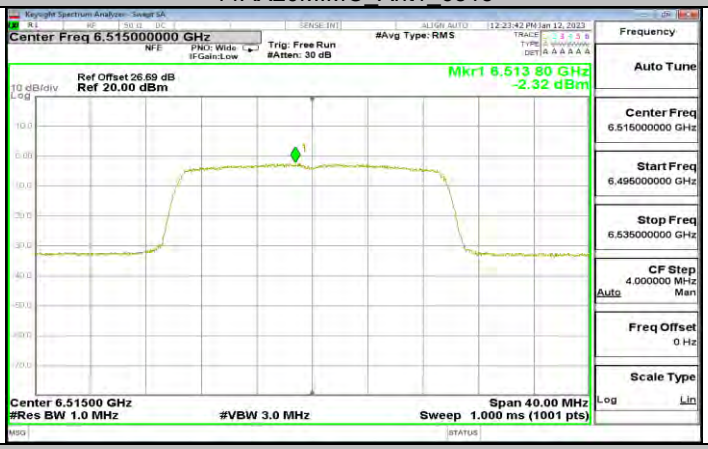

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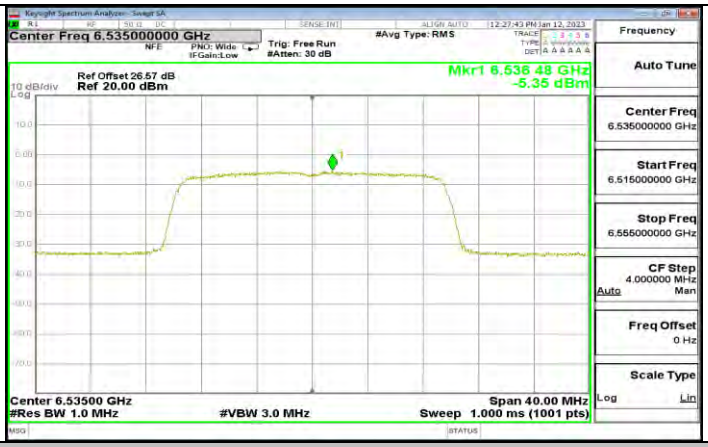

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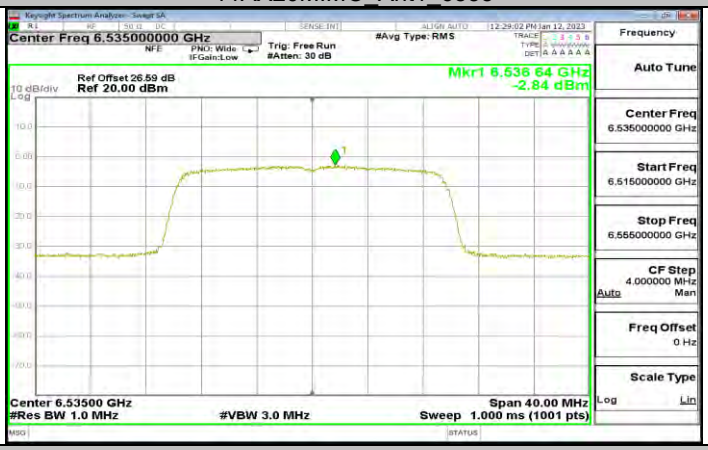

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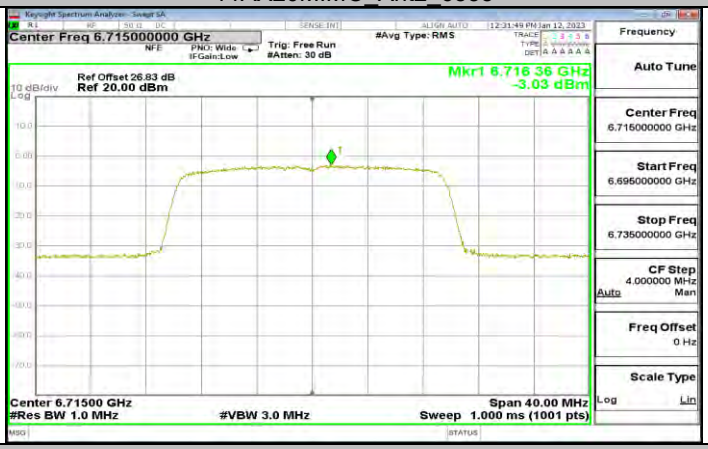

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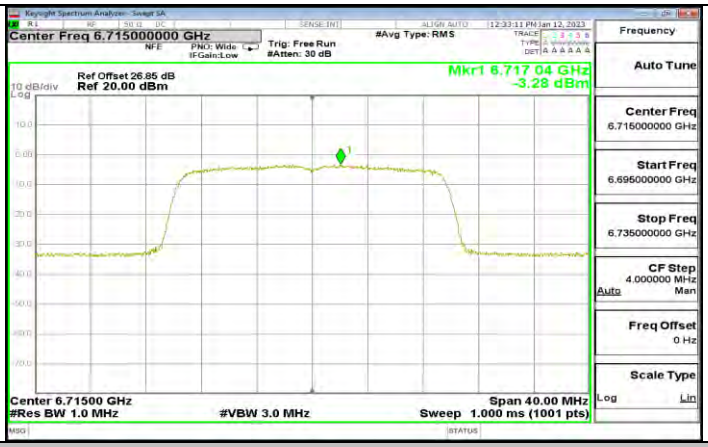

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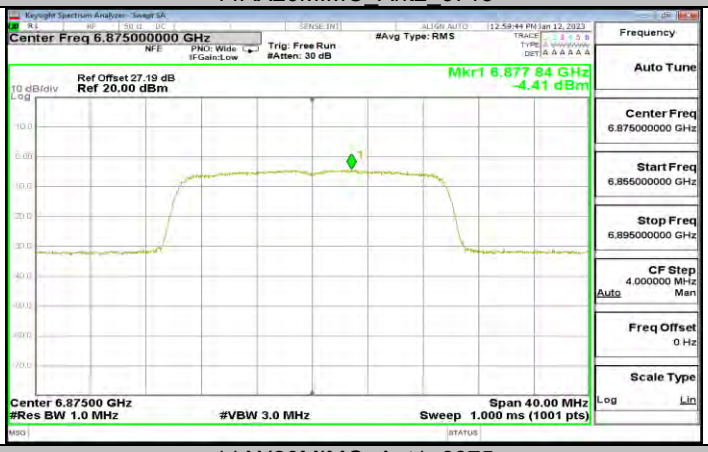

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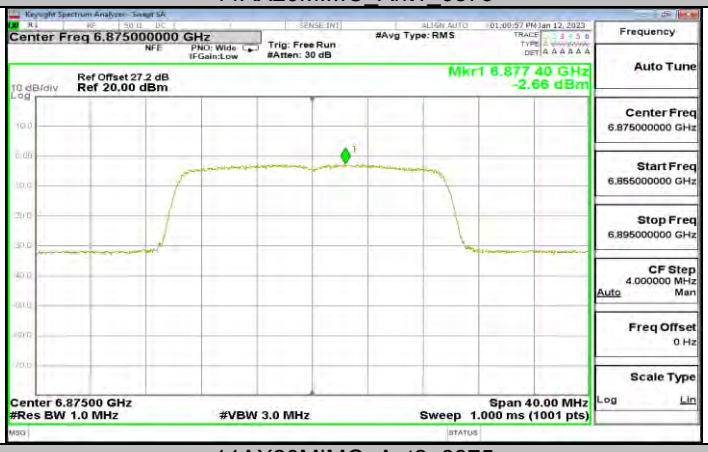

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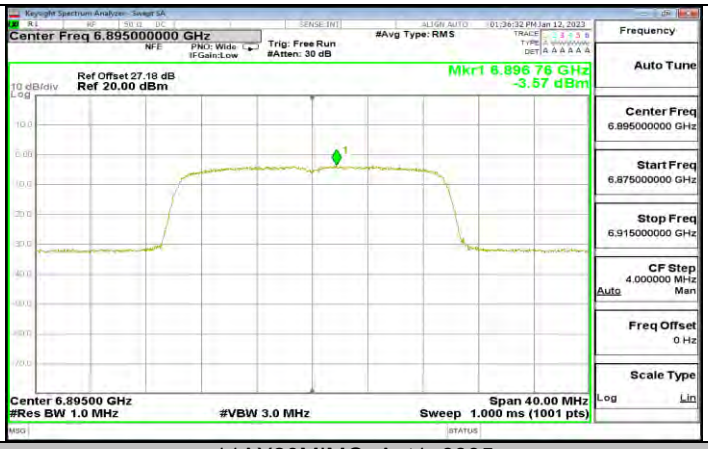

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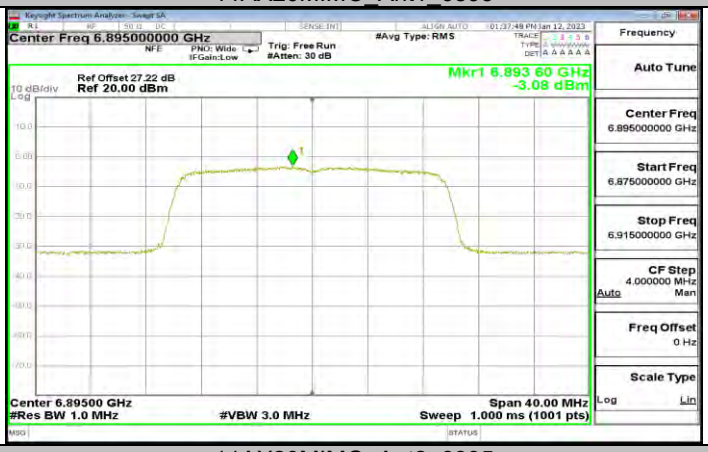

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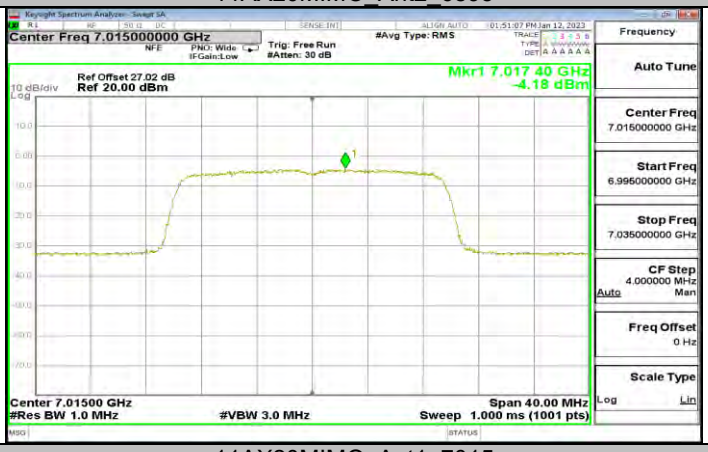

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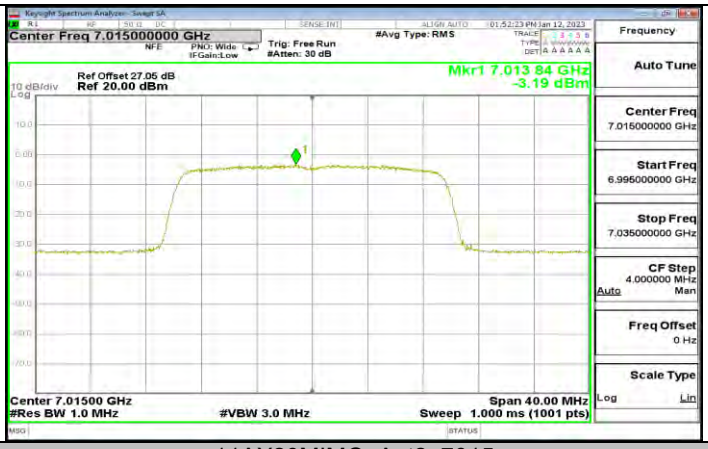

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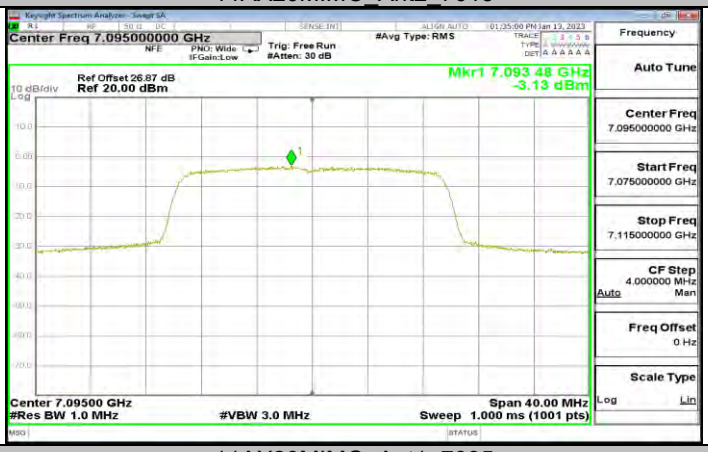

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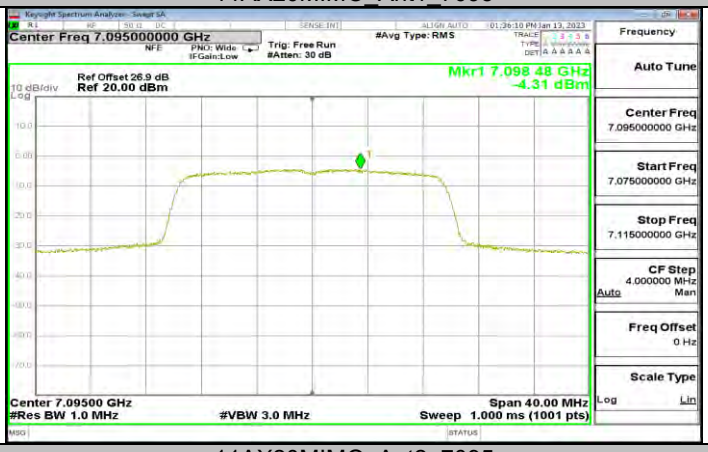

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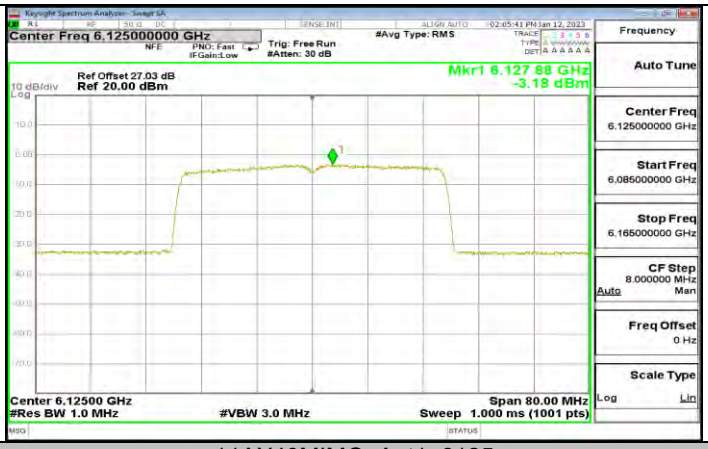

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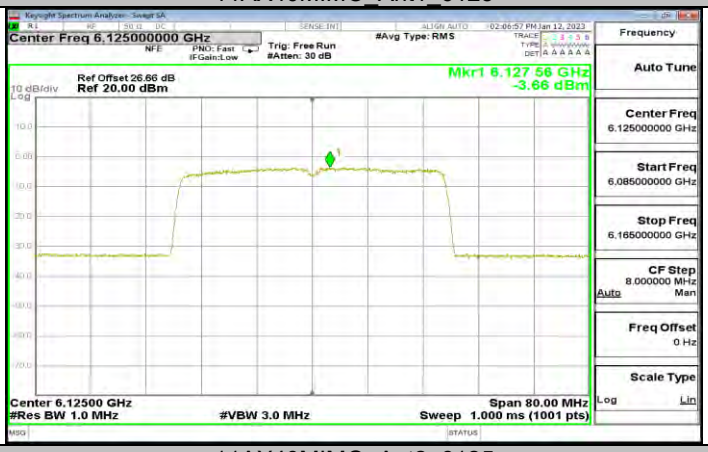

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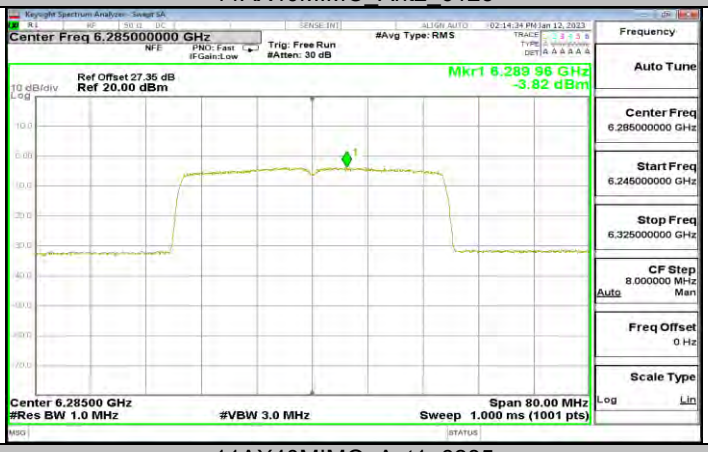

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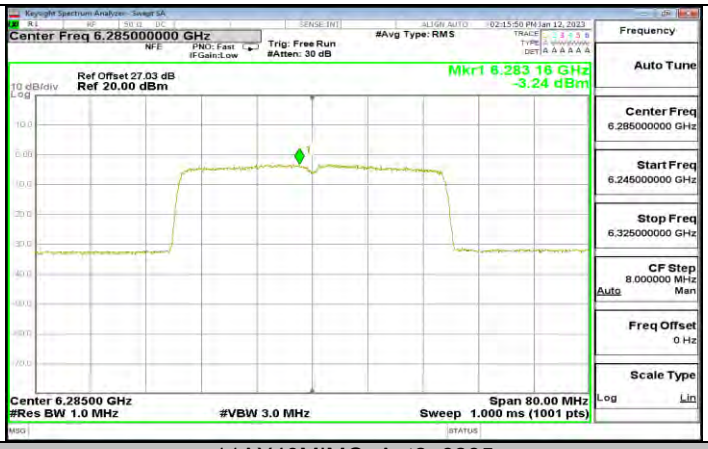

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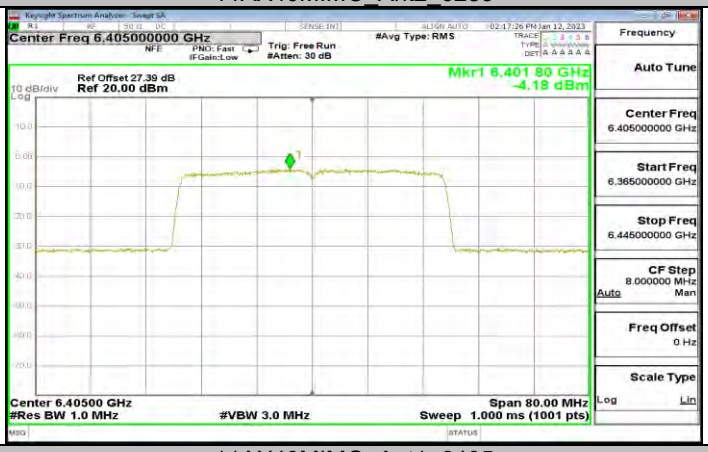

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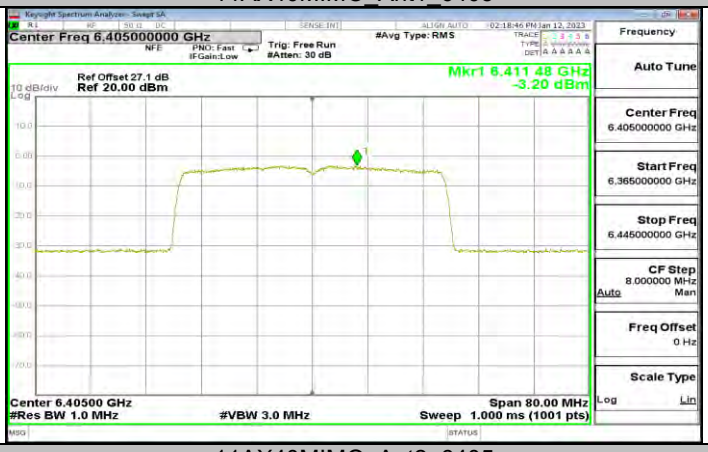

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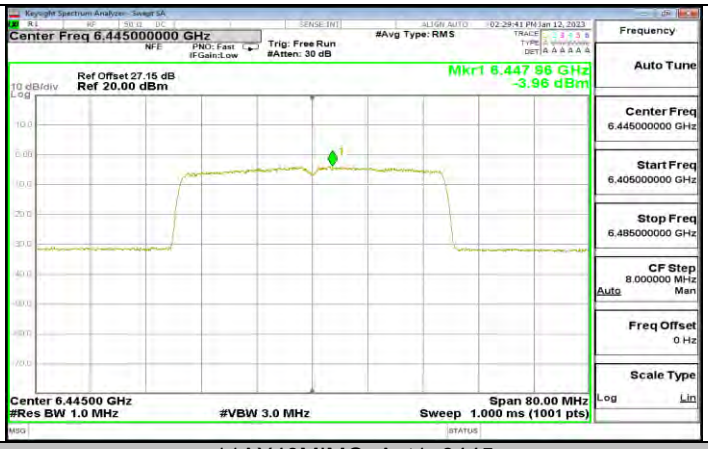

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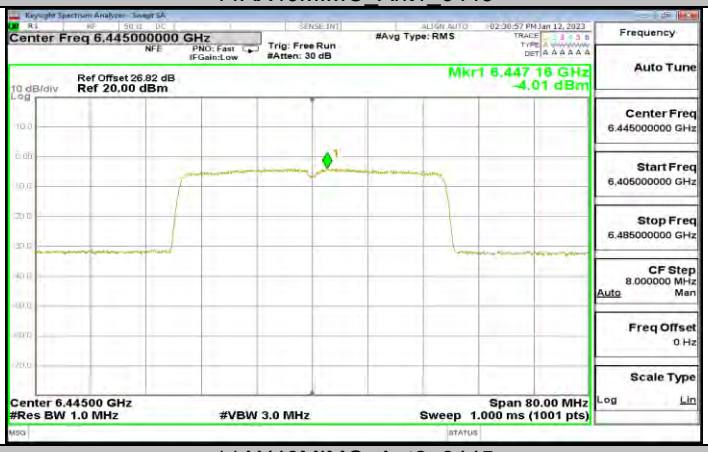

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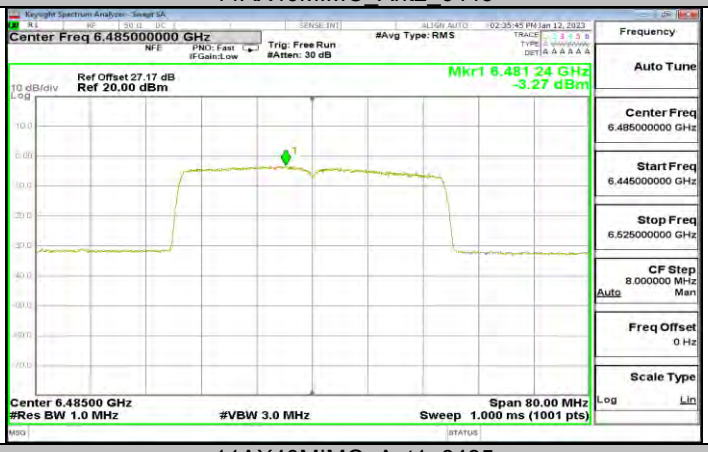

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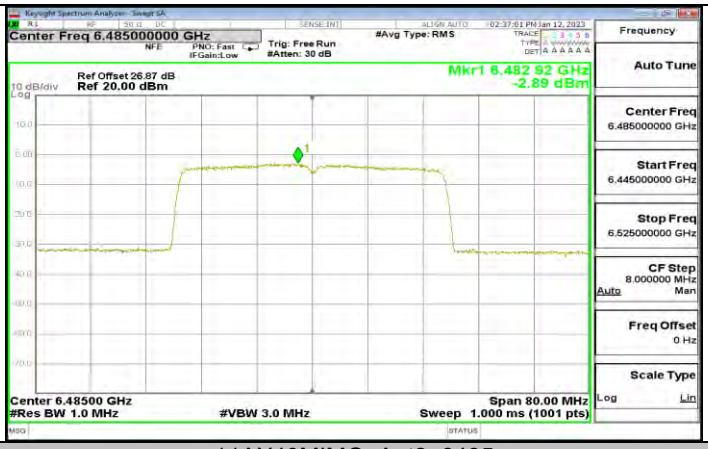

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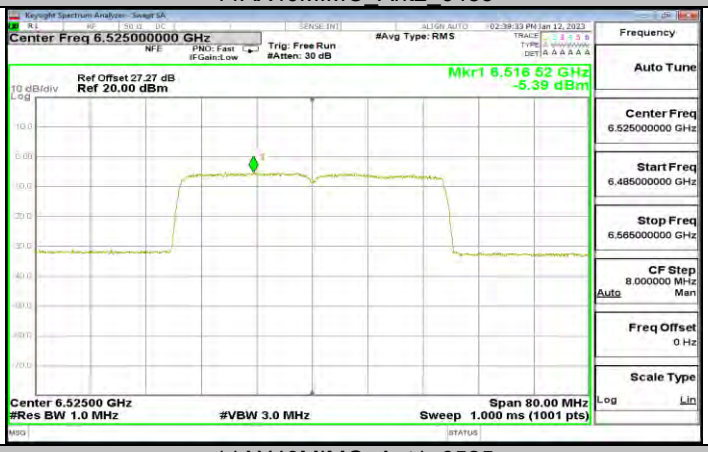

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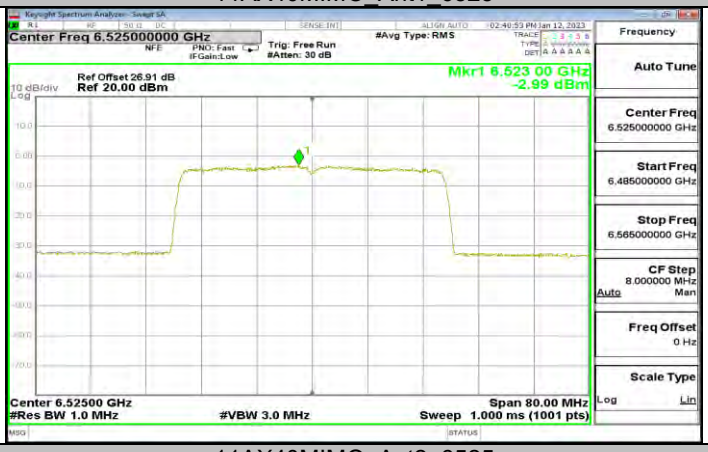

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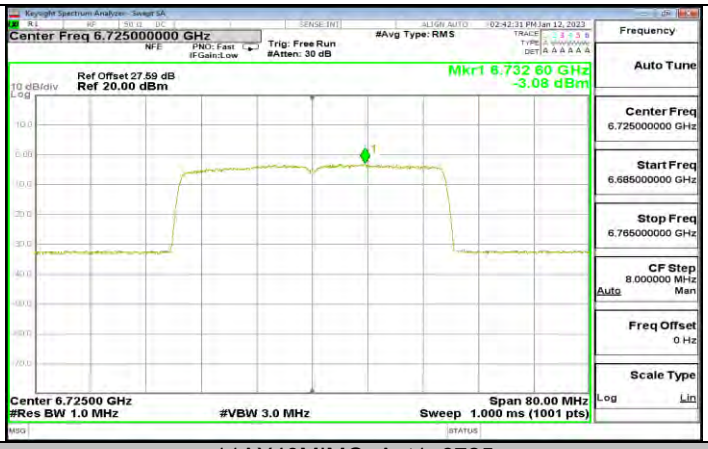

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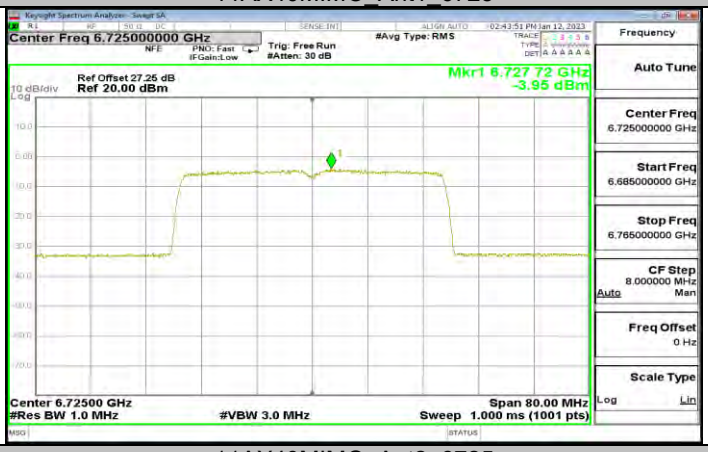

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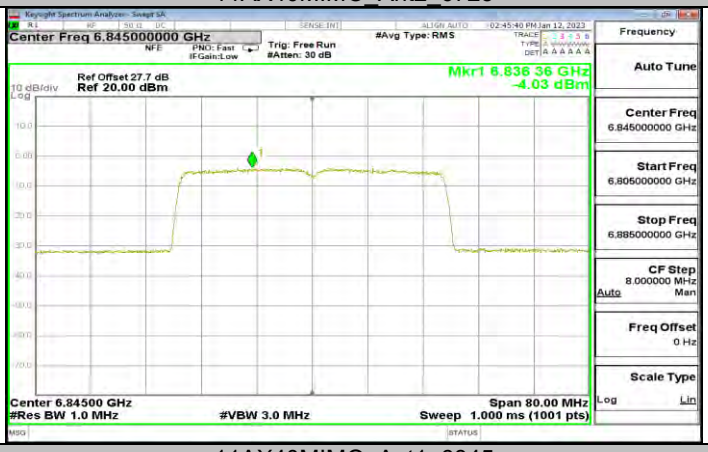

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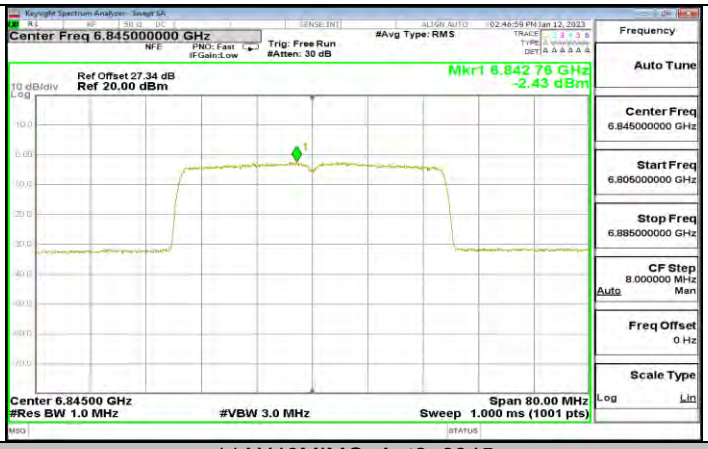

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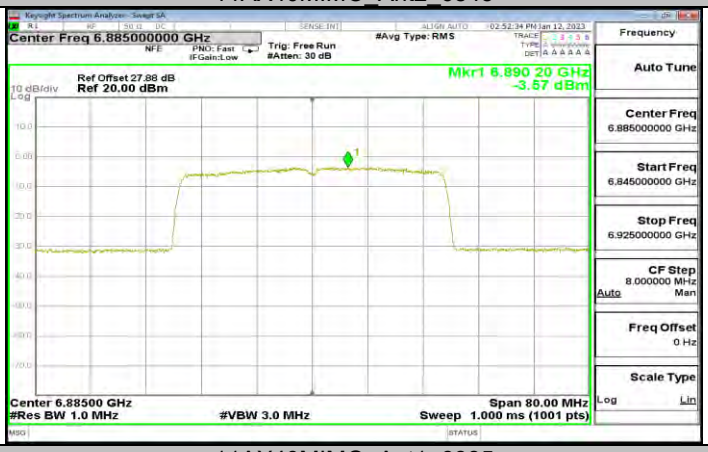

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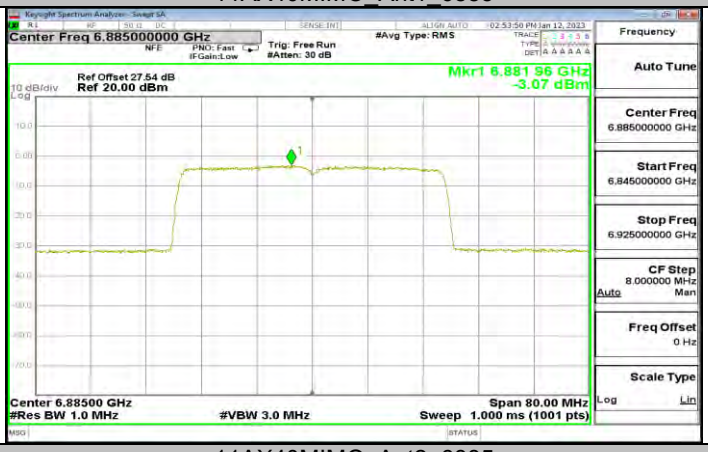

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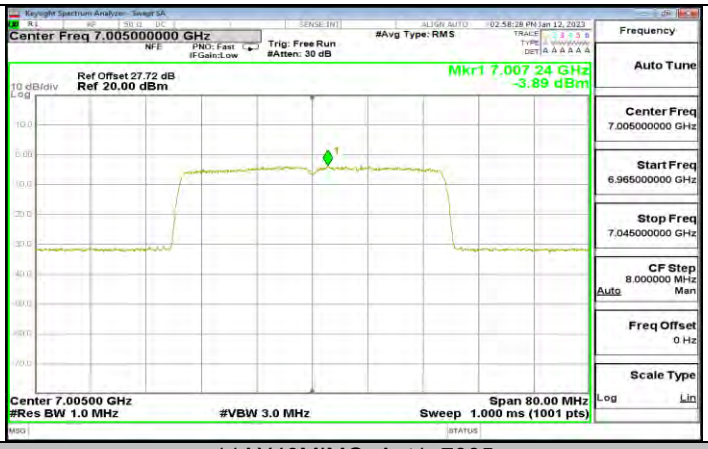

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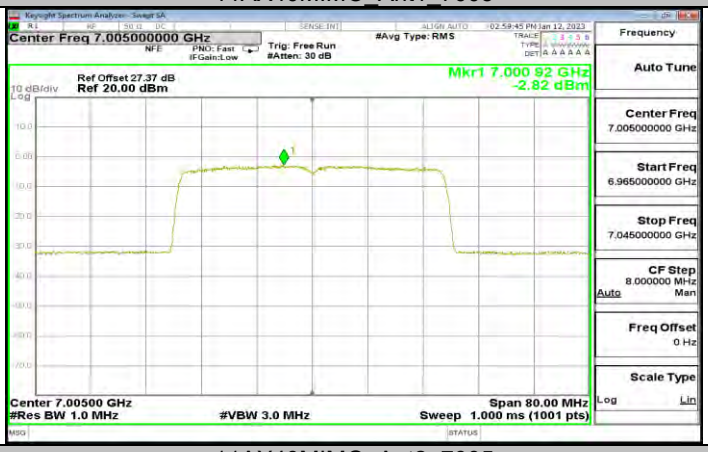

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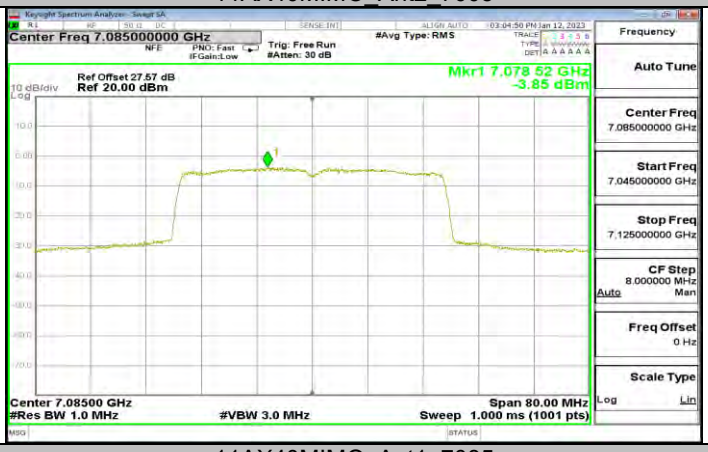

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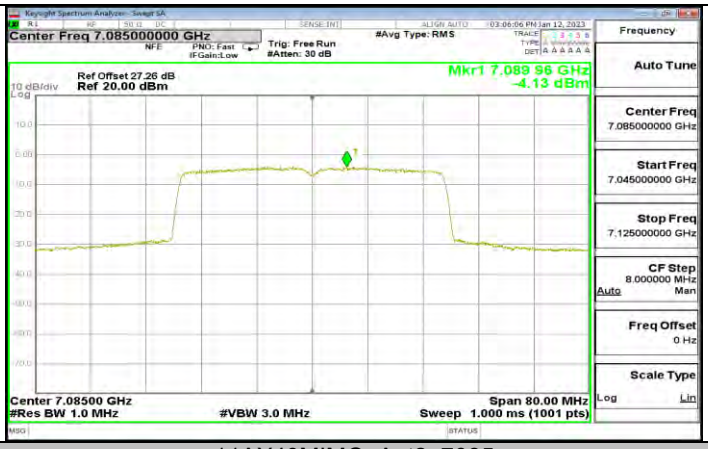

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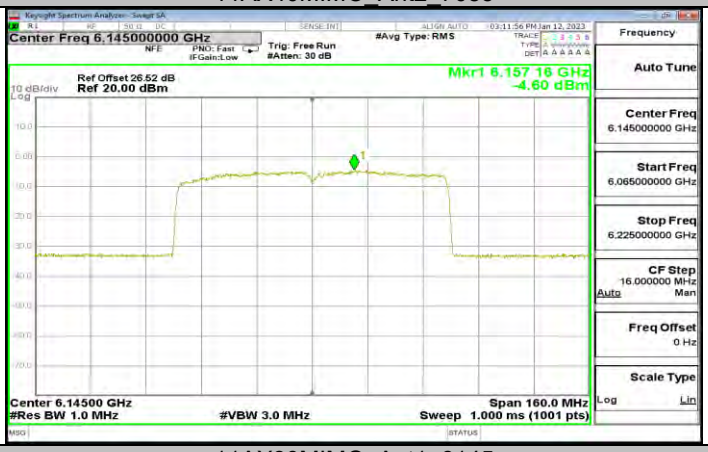

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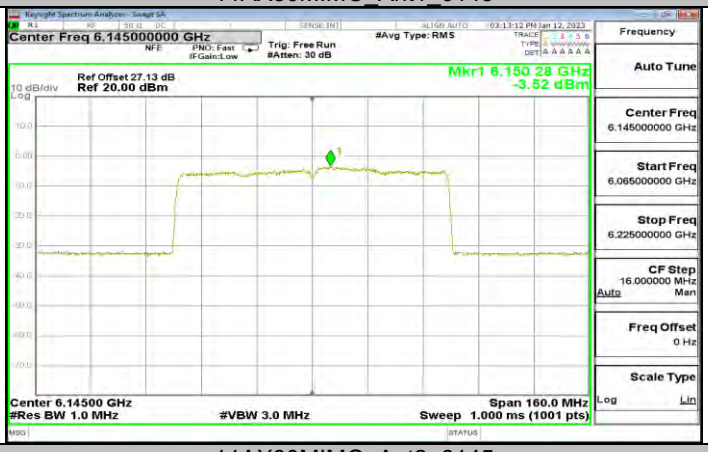

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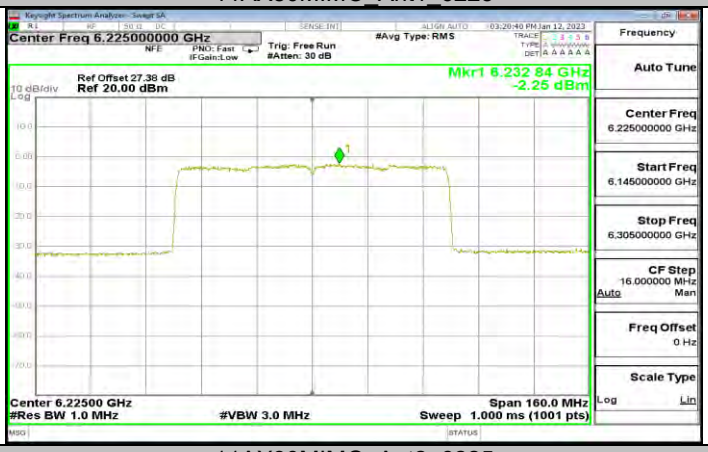

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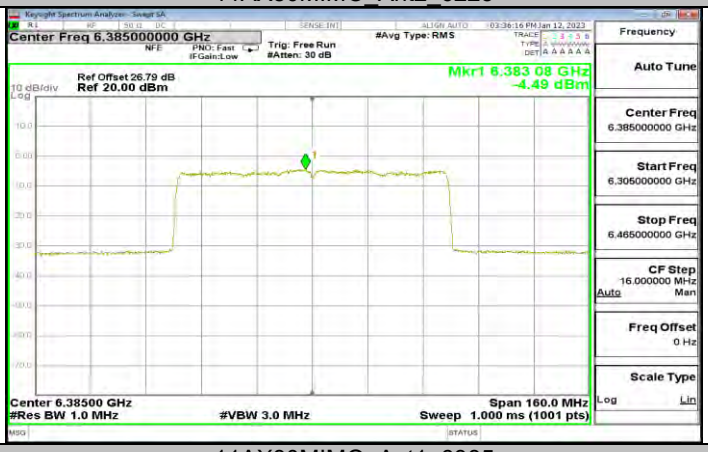

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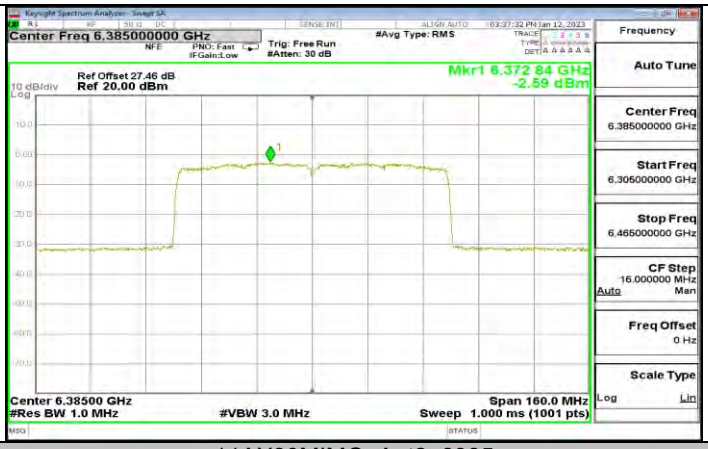

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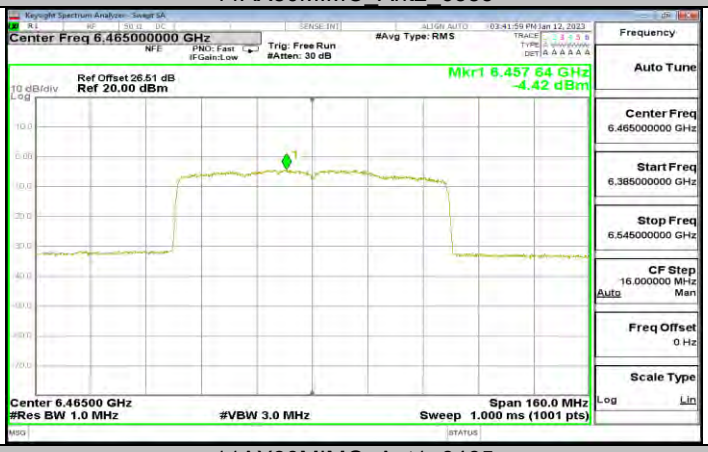

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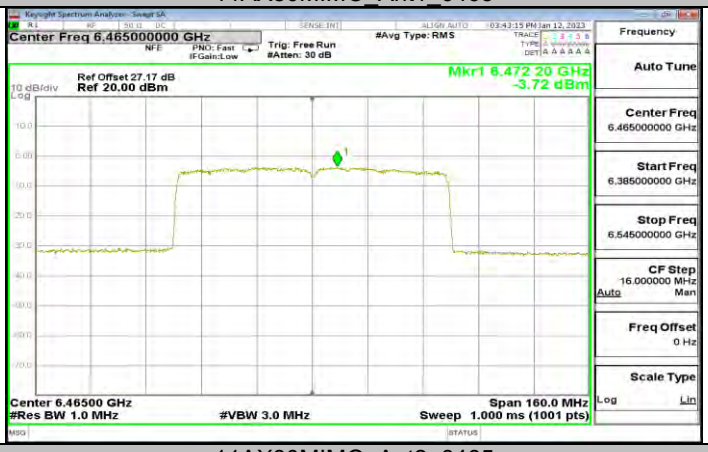

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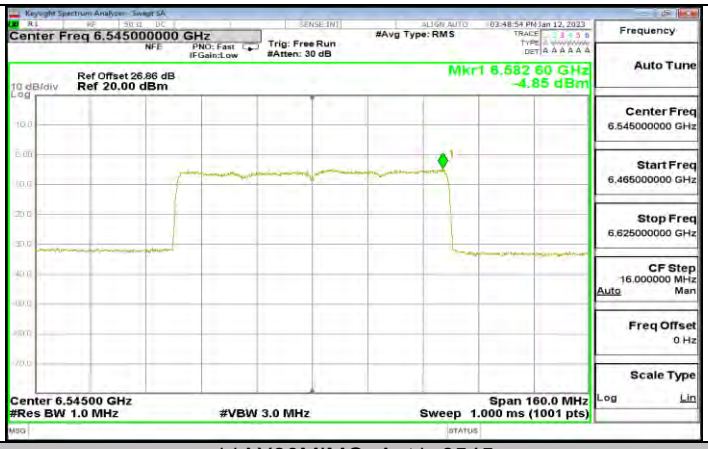

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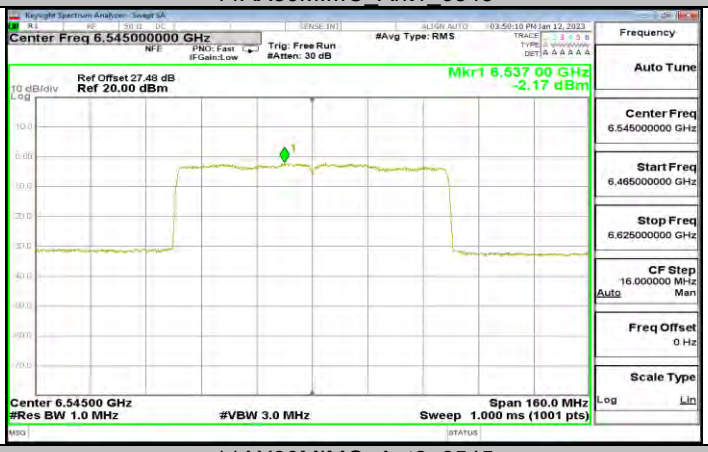

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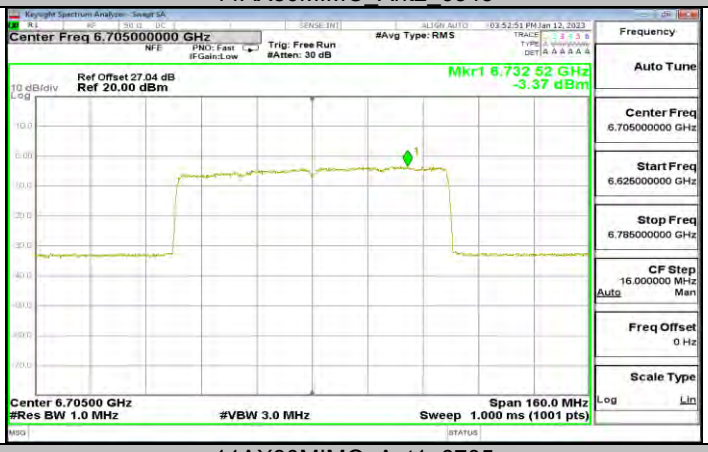

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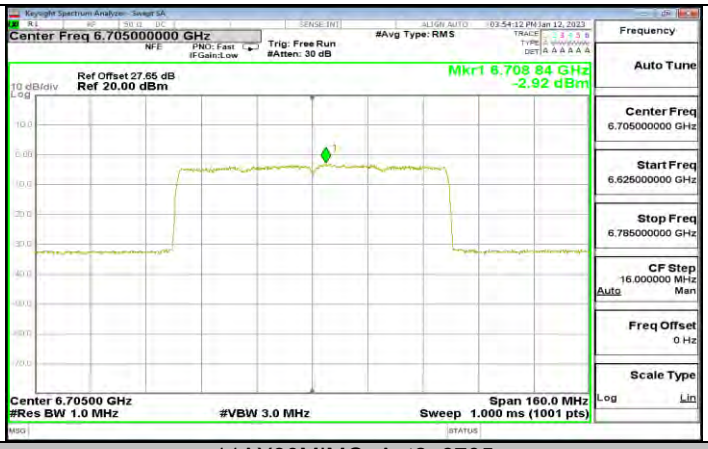

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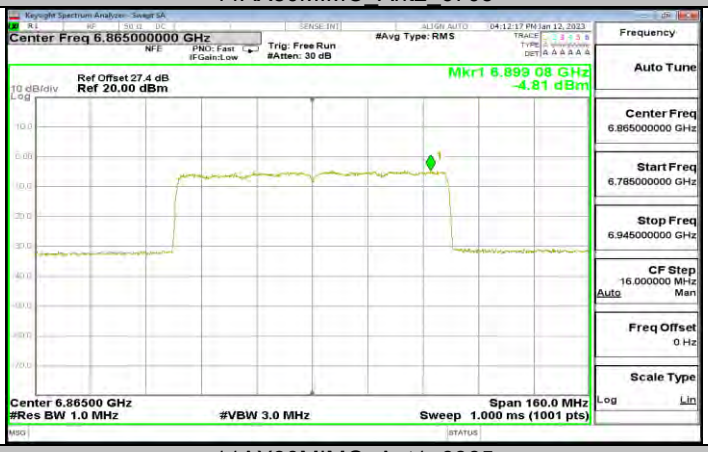

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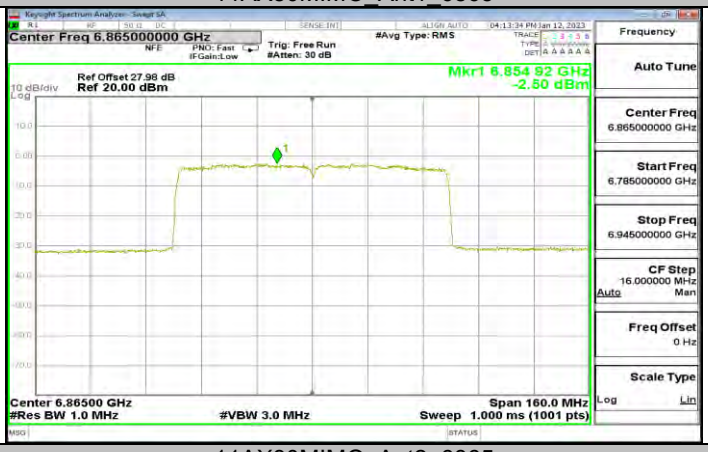

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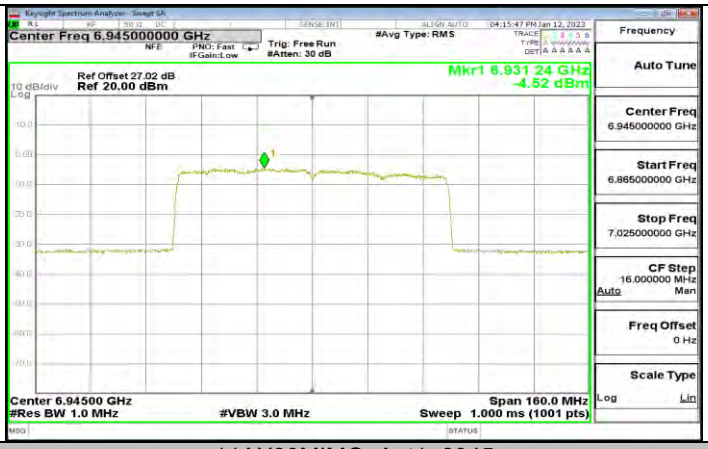

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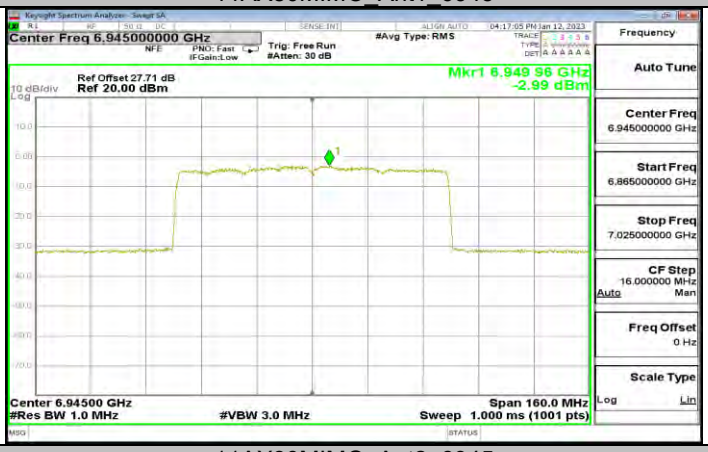

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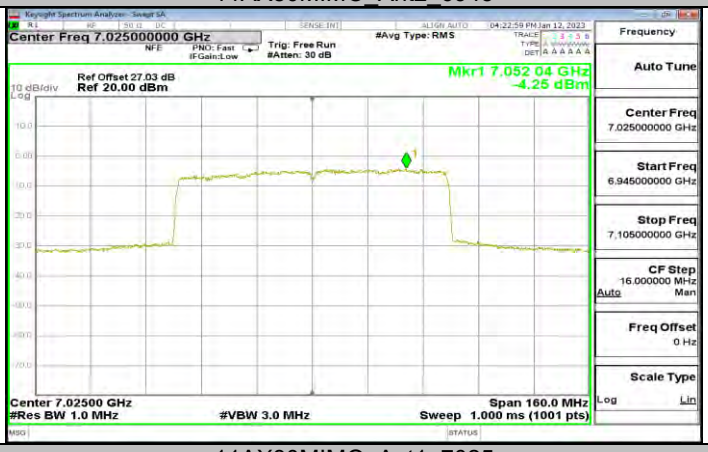

11AX80MIMO_Ant1_7025

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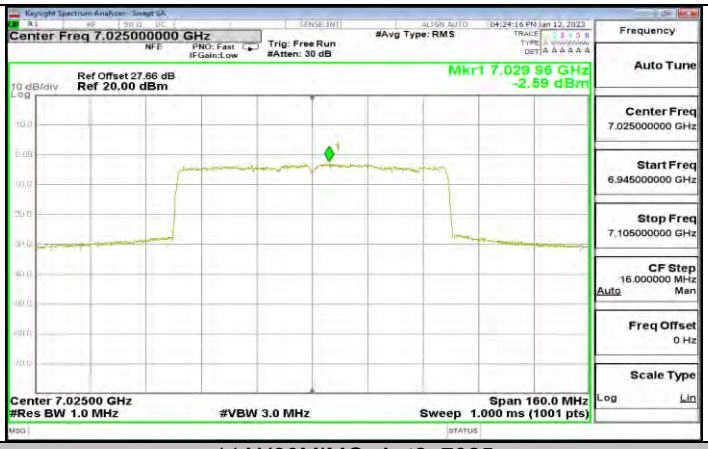

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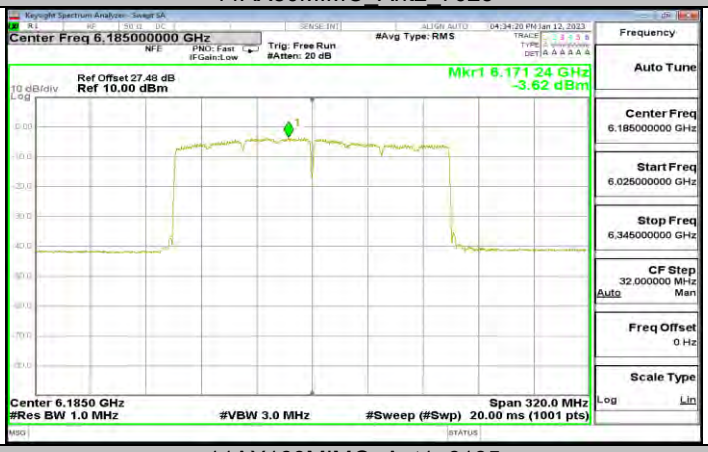

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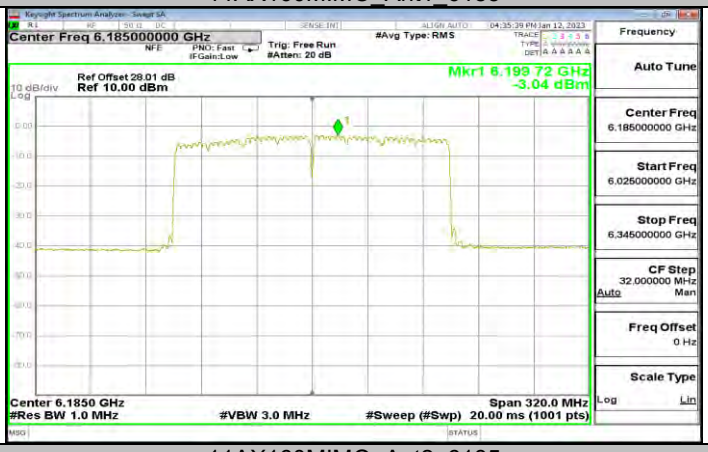

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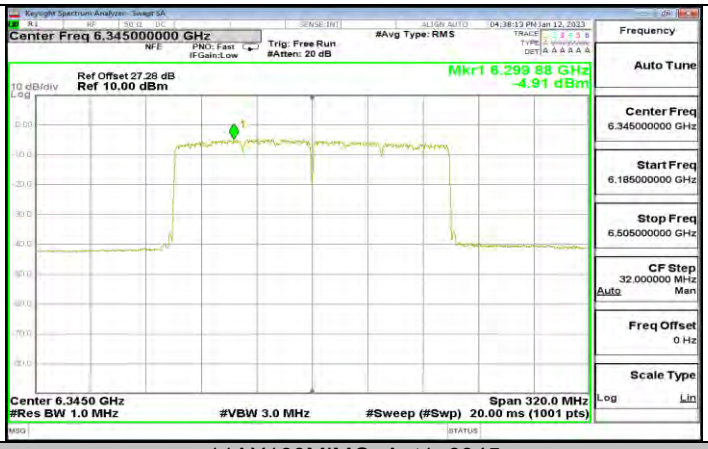
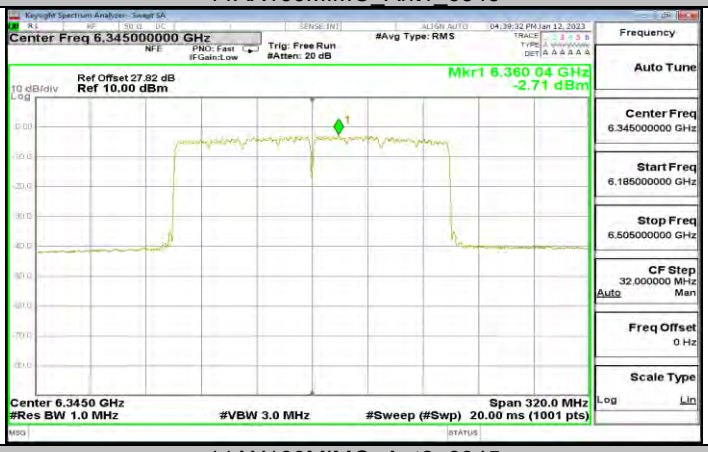


11AX160MIMO_Ant1_6345



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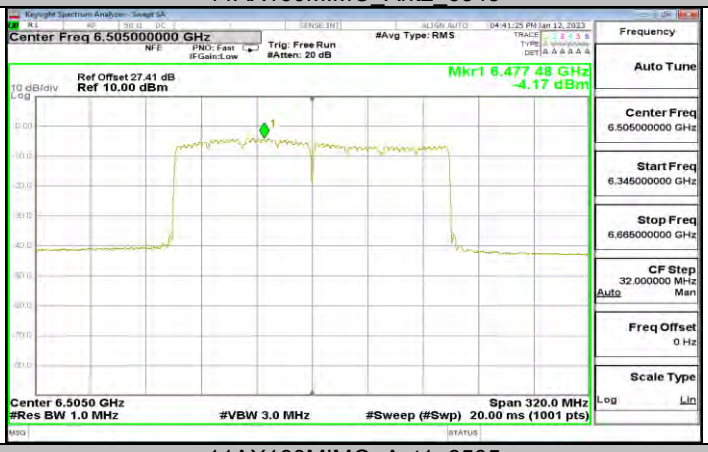

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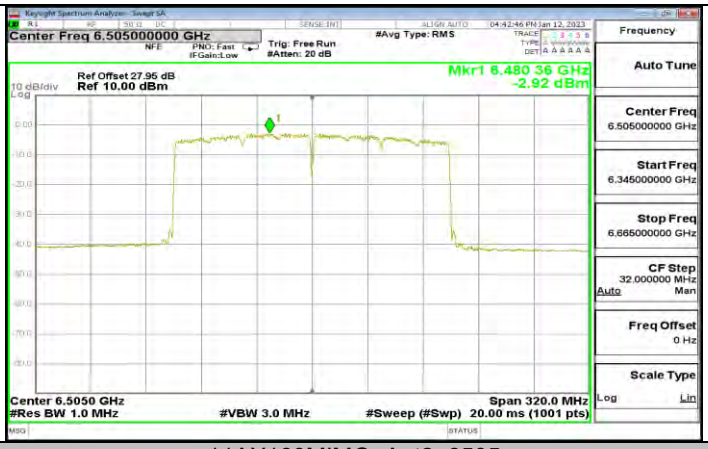

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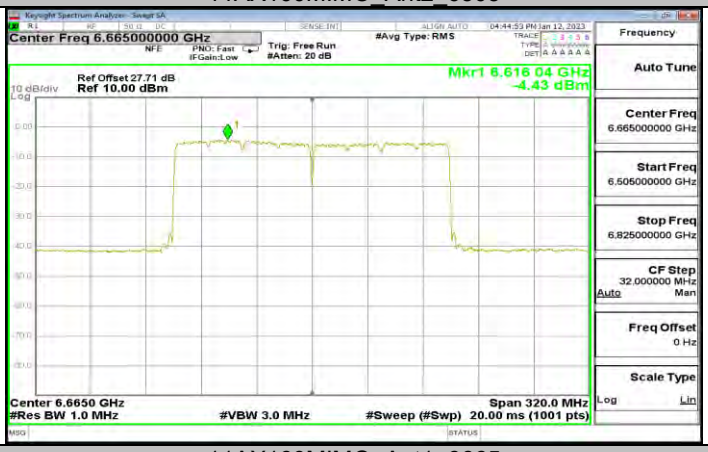

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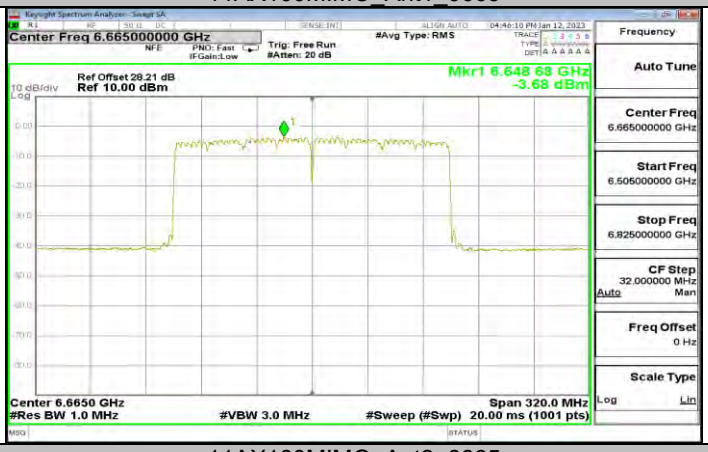

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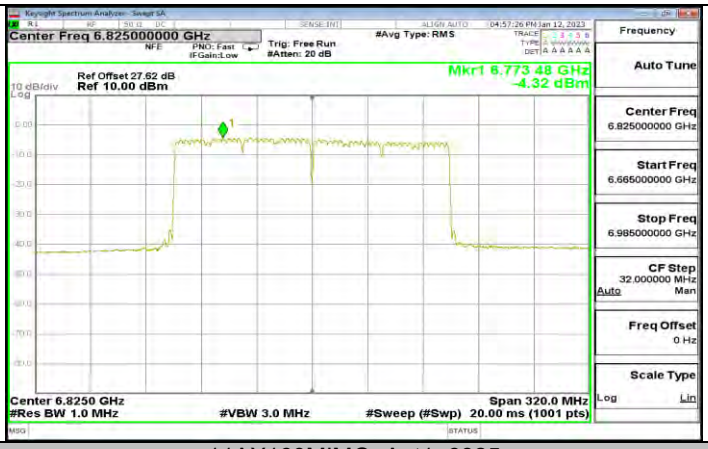

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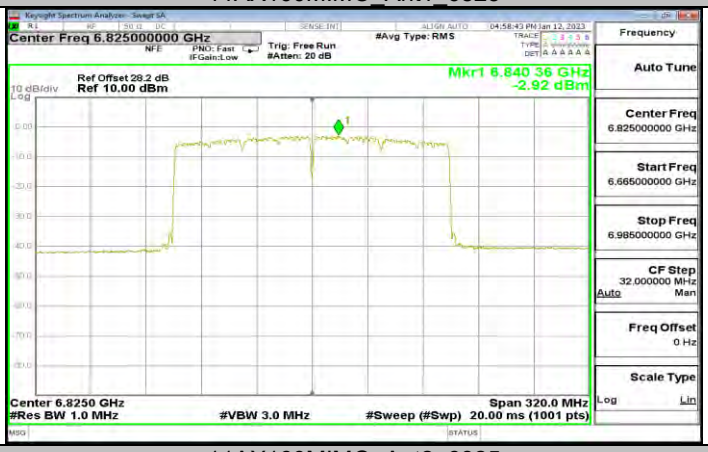

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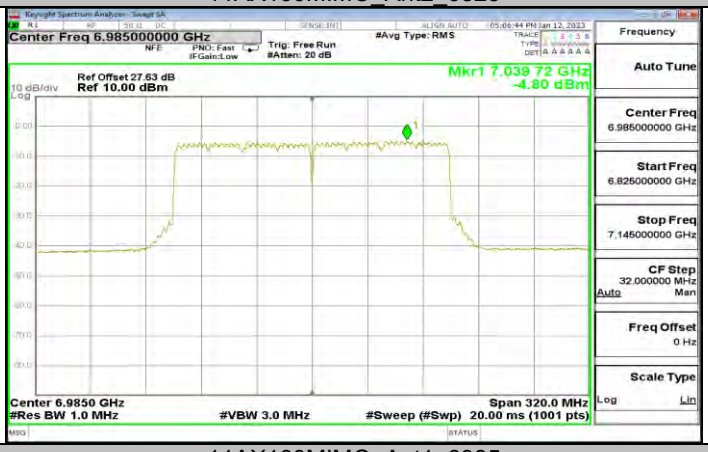

11AX160MIMO_Ant1_6985

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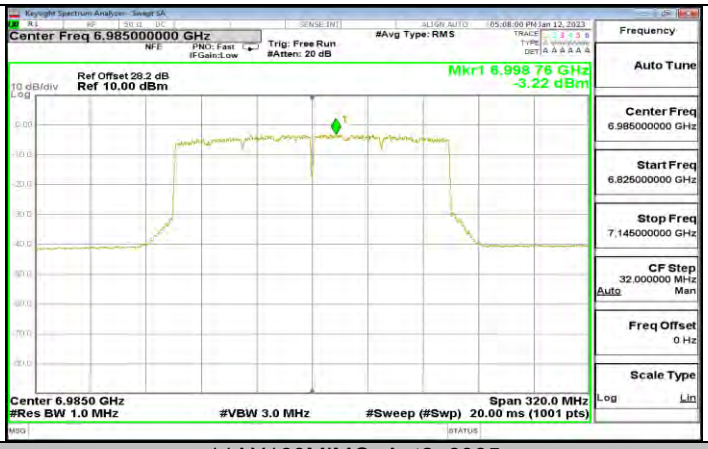

11AX160MIMO_Ant2_6985

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12.5. Appendix E: In-Band Emissions

12.5.1. Test Result

Test Mode	Antenna	Frequency[MHz]	Result	Limit	Verdict
11AX20MIMO	Ant1	6115	See test graph	See test graph	PASS
	Ant2	6115	See test graph	See test graph	PASS
	Ant1	6275	See test graph	See test graph	PASS
	Ant2	6275	See test graph	See test graph	PASS
	Ant1	6415	See test graph	See test graph	PASS
	Ant2	6415	See test graph	See test graph	PASS
	Ant1	6435	See test graph	See test graph	PASS
	Ant2	6435	See test graph	See test graph	PASS
	Ant1	6475	See test graph	See test graph	PASS
	Ant2	6475	See test graph	See test graph	PASS
	Ant1	6515	See test graph	See test graph	PASS
	Ant2	6515	See test graph	See test graph	PASS
	Ant1	6535	See test graph	See test graph	PASS
	Ant2	6535	See test graph	See test graph	PASS
	Ant1	6715	See test graph	See test graph	PASS
	Ant2	6715	See test graph	See test graph	PASS
	Ant1	6875	See test graph	See test graph	PASS
	Ant2	6875	See test graph	See test graph	PASS
	Ant1	6895	See test graph	See test graph	PASS
	Ant2	6895	See test graph	See test graph	PASS
	Ant1	7015	See test graph	See test graph	PASS
	Ant2	7015	See test graph	See test graph	PASS
	Ant1	7095	See test graph	See test graph	PASS
	Ant2	7095	See test graph	See test graph	PASS
11AX40MIMO	Ant1	6125	See test graph	See test graph	PASS
	Ant2	6125	See test graph	See test graph	PASS
	Ant1	6285	See test graph	See test graph	PASS
	Ant2	6285	See test graph	See test graph	PASS
	Ant1	6405	See test graph	See test graph	PASS
	Ant2	6405	See test graph	See test graph	PASS
	Ant1	6445	See test graph	See test graph	PASS
	Ant2	6445	See test graph	See test graph	PASS
	Ant1	6485	See test graph	See test graph	PASS
	Ant2	6485	See test graph	See test graph	PASS
	Ant1	6525	See test graph	See test graph	PASS
	Ant2	6525	See test graph	See test graph	PASS
	Ant1	6725	See test graph	See test graph	PASS
	Ant2	6725	See test graph	See test graph	PASS
	Ant1	6845	See test graph	See test graph	PASS
	Ant2	6845	See test graph	See test graph	PASS
	Ant1	6885	See test graph	See test graph	PASS
	Ant2	6885	See test graph	See test graph	PASS
	Ant1	7005	See test graph	See test graph	PASS
	Ant2	7005	See test graph	See test graph	PASS
	Ant1	7085	See test graph	See test graph	PASS
	Ant2	7085	See test graph	See test graph	PASS
11AX80MIMO	Ant1	6145	See test graph	See test graph	PASS
	Ant2	6145	See test graph	See test graph	PASS
	Ant1	6225	See test graph	See test graph	PASS
	Ant2	6225	See test graph	See test graph	PASS
	Ant1	6385	See test graph	See test graph	PASS
	Ant2	6385	See test graph	See test graph	PASS
	Ant1	6465	See test graph	See test graph	PASS
	Ant2	6465	See test graph	See test graph	PASS

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	Ant1	6545	See test graph	See test graph	PASS
	Ant2	6545	See test graph	See test graph	PASS
	Ant1	6705	See test graph	See test graph	PASS
	Ant2	6705	See test graph	See test graph	PASS
	Ant1	6865	See test graph	See test graph	PASS
	Ant2	6865	See test graph	See test graph	PASS
	Ant1	6945	See test graph	See test graph	PASS
	Ant2	6945	See test graph	See test graph	PASS
	Ant1	7025	See test graph	See test graph	PASS
	Ant2	7025	See test graph	See test graph	PASS
11AX160MIMO	Ant1	6185	See test graph	See test graph	PASS
	Ant2	6185	See test graph	See test graph	PASS
	Ant1	6345	See test graph	See test graph	PASS
	Ant2	6345	See test graph	See test graph	PASS
	Ant1	6505	See test graph	See test graph	PASS
	Ant2	6505	See test graph	See test graph	PASS
	Ant1	6665	See test graph	See test graph	PASS
	Ant2	6665	See test graph	See test graph	PASS
	Ant1	6825	See test graph	See test graph	PASS
	Ant2	6825	See test graph	See test graph	PASS
	Ant1	6985	See test graph	See test graph	PASS
	Ant2	6985	See test graph	See test graph	PASS

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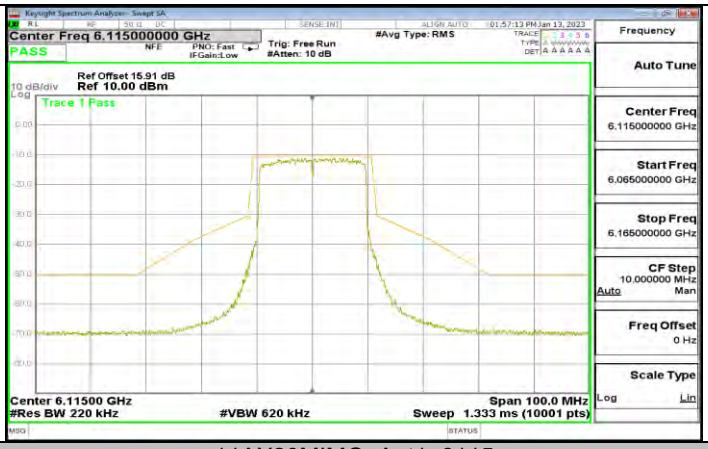
12.5.2. Test Graphs



11AX20MIMO_Ant1_6115

11AX20MIMO_Ant2_6115

11AX20MIMO_Ant1_6275

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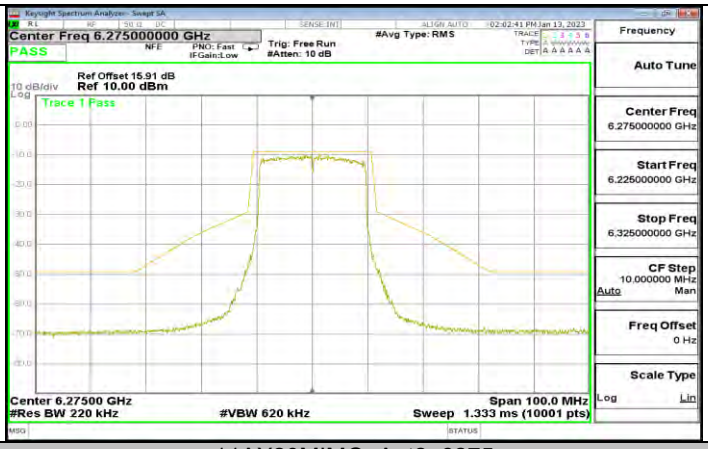

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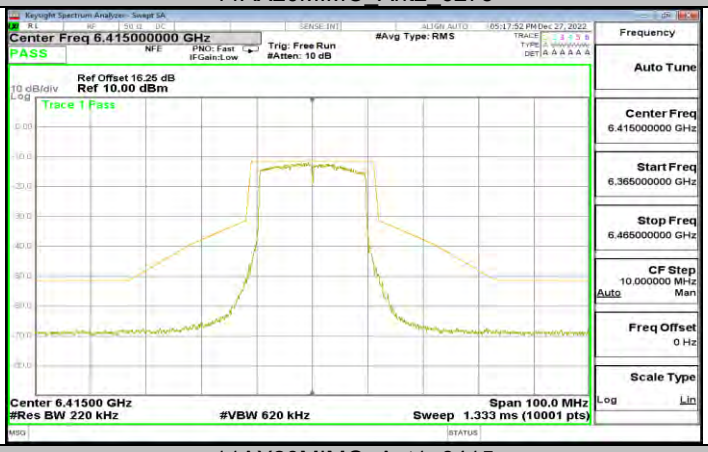

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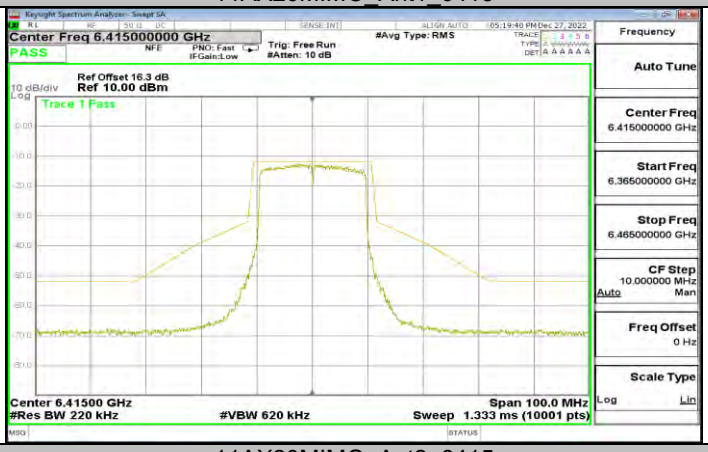

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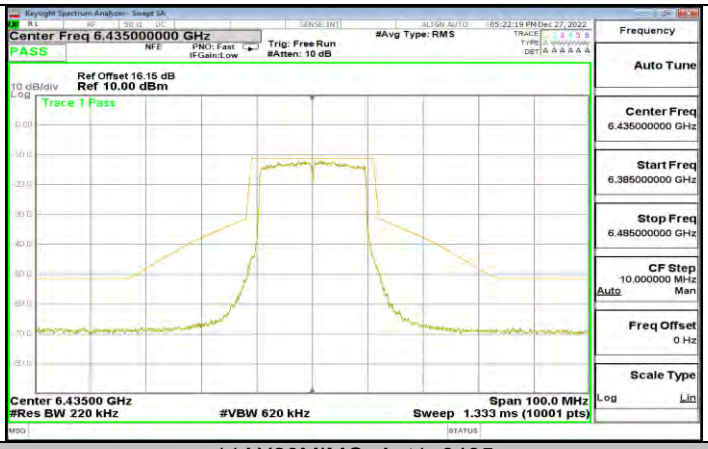

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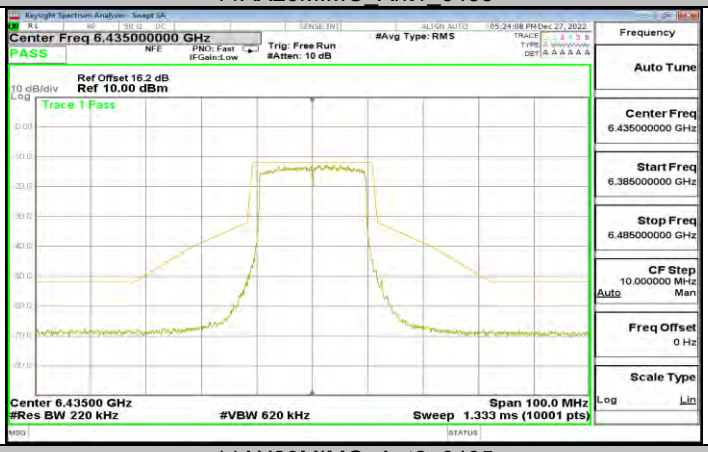

11AX20MIMO_Ant2_6435

11AX20MIMO_Ant1_6475

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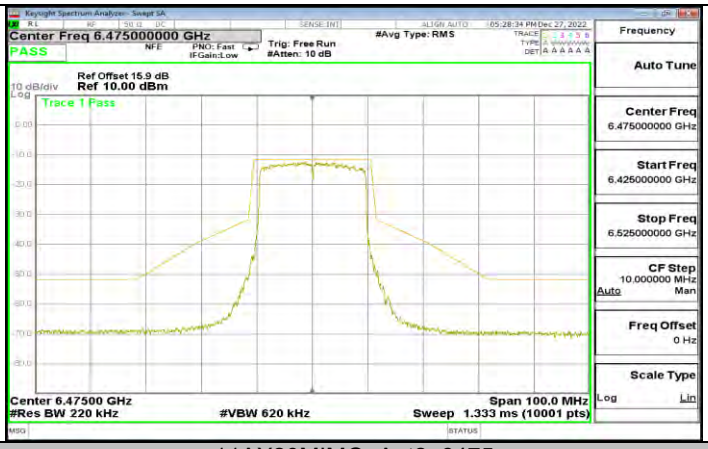

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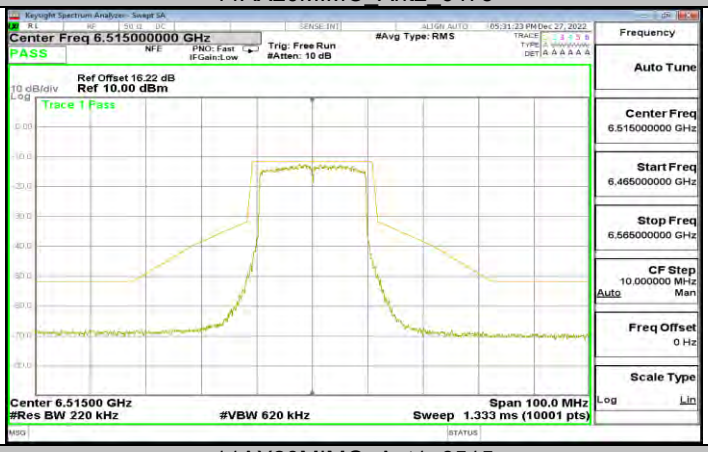

11AX20MIMO_Ant1_6515

11AX20MIMO_Ant2_6515

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11AX20MIMO_Ant1_6535

11AX20MIMO_Ant2_6535

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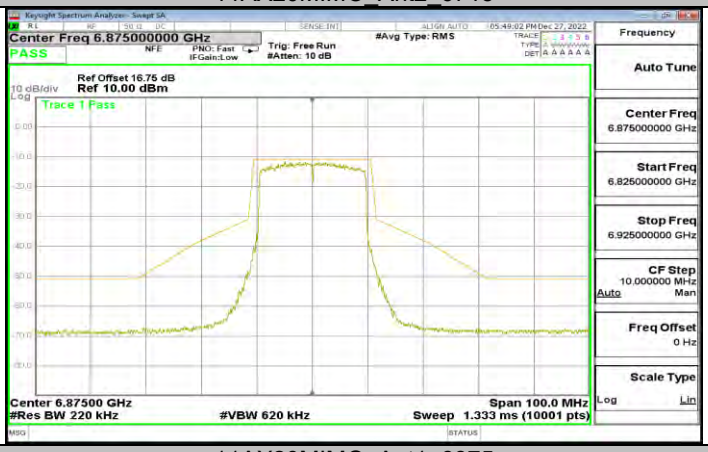

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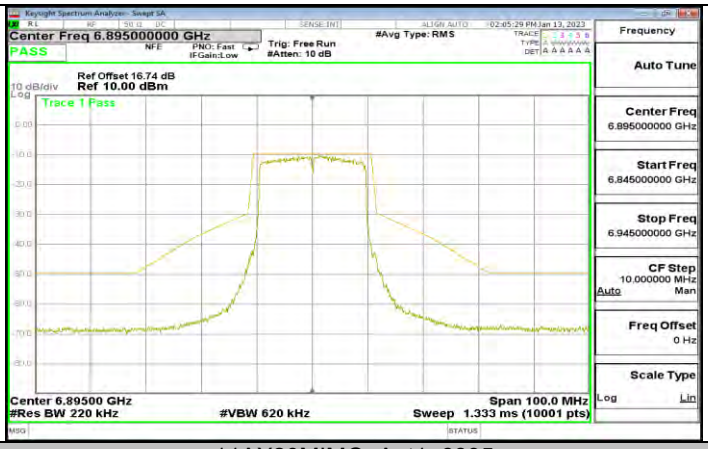

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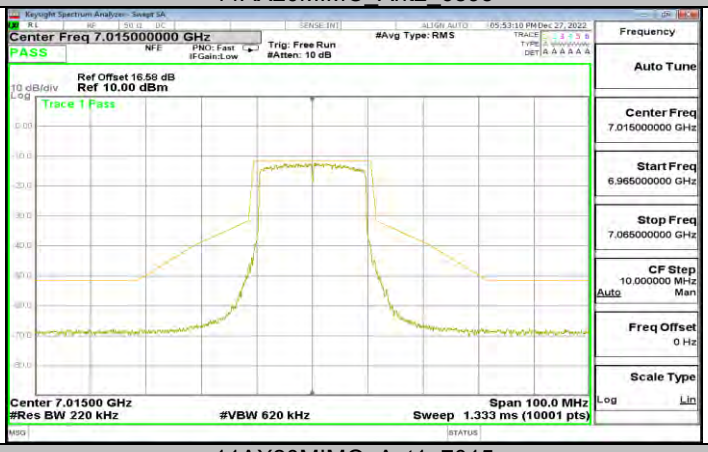

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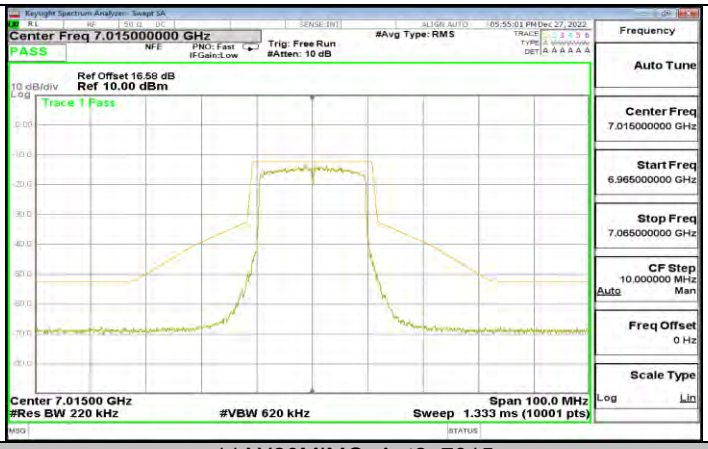

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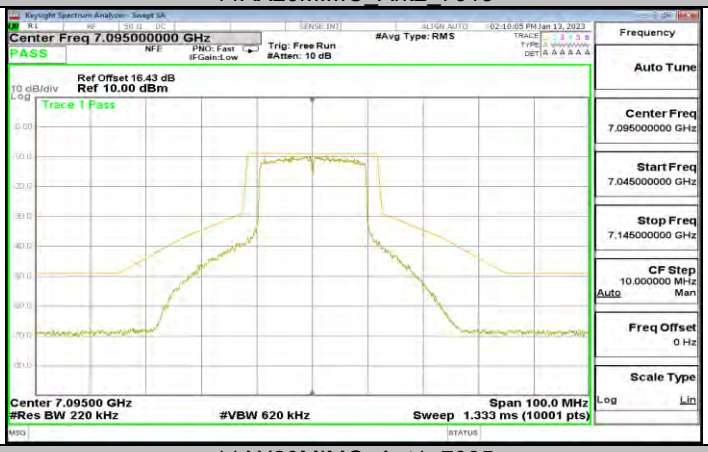

11AX20MIMO_Ant1_7095

11AX20MIMO_Ant2_7095

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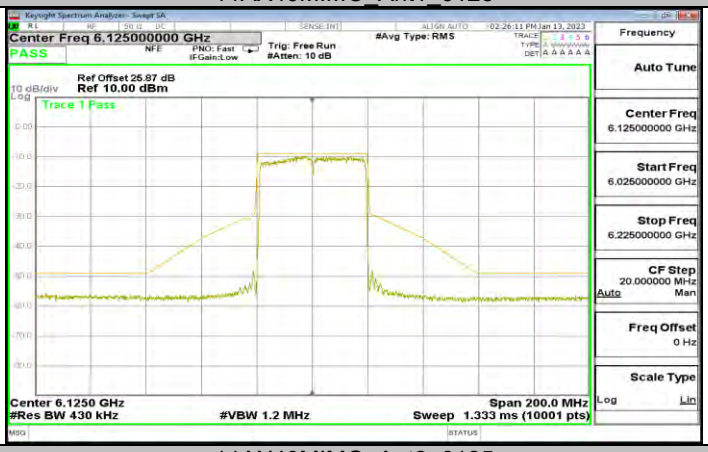

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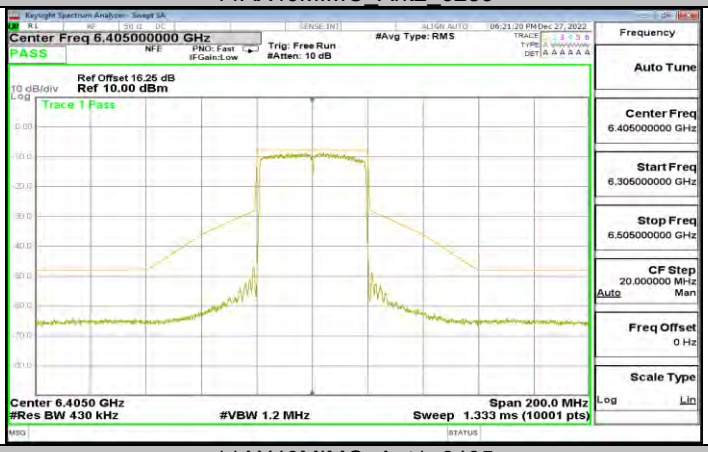

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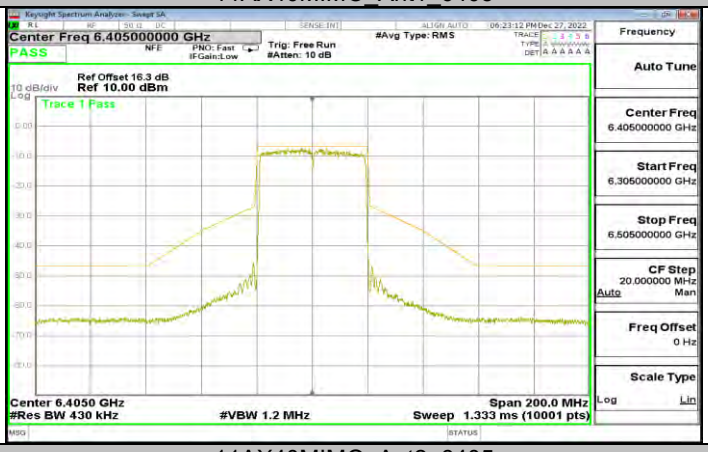

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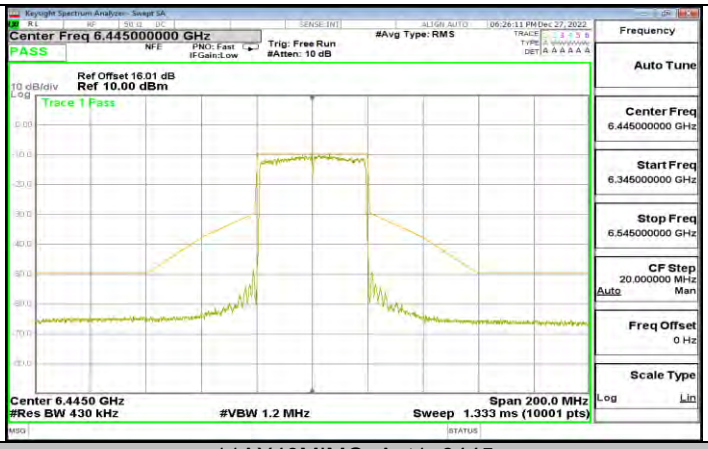

11AX40MIMO_Ant1_6445

11AX40MIMO_Ant2_6445

11AX40MIMO_Ant1_6485

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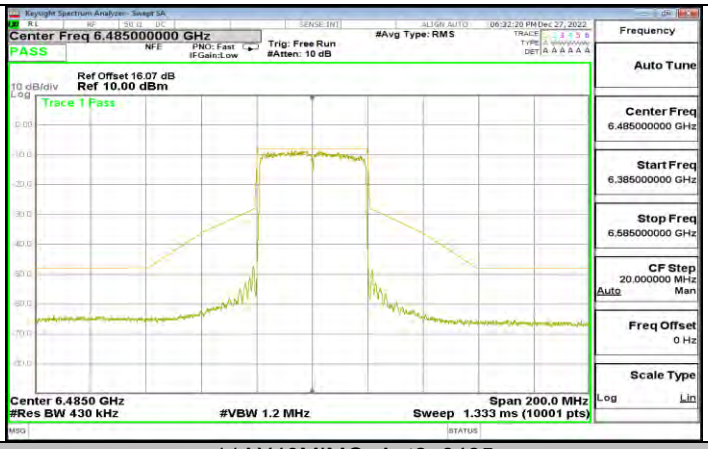

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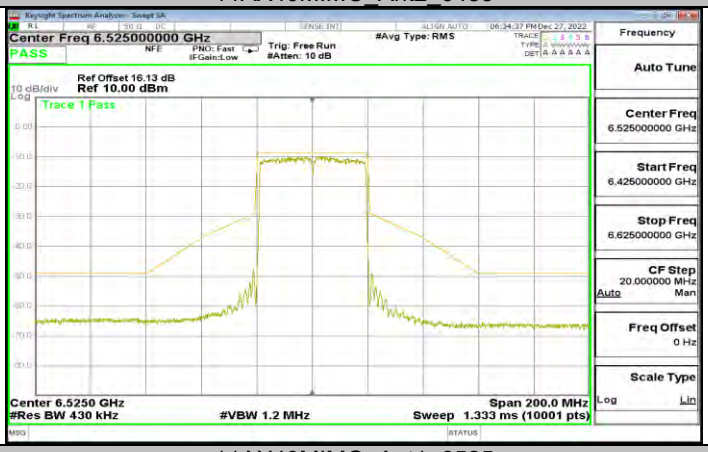

11AX40MIMO_Ant1_6525

11AX40MIMO_Ant2_6525

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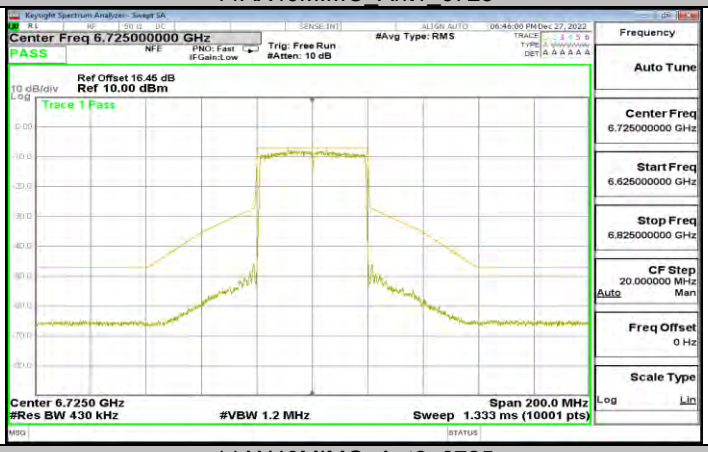
11AX40MIMO_Ant1_6725



11AX40MIMO_Ant2_6725

11AX40MIMO_Ant1_6845

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11AX40MIMO_Ant2_6845

11AX40MIMO_Ant1_6885

11AX40MIMO_Ant2_6885

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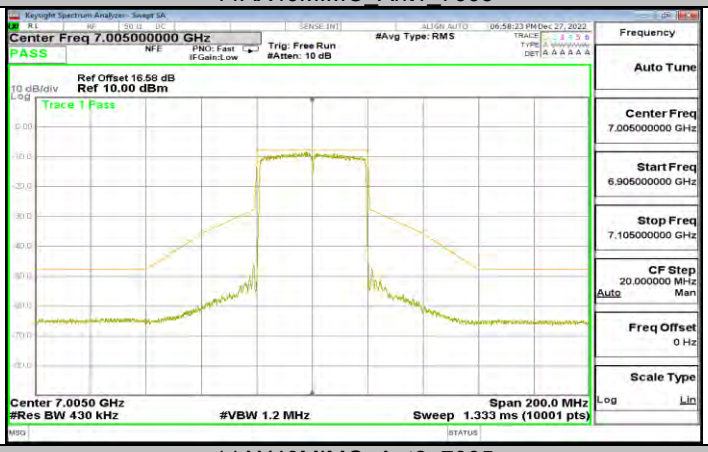
11AX40MIMO_Ant1_7005



11AX40MIMO_Ant2_7005

11AX40MIMO_Ant1_7085

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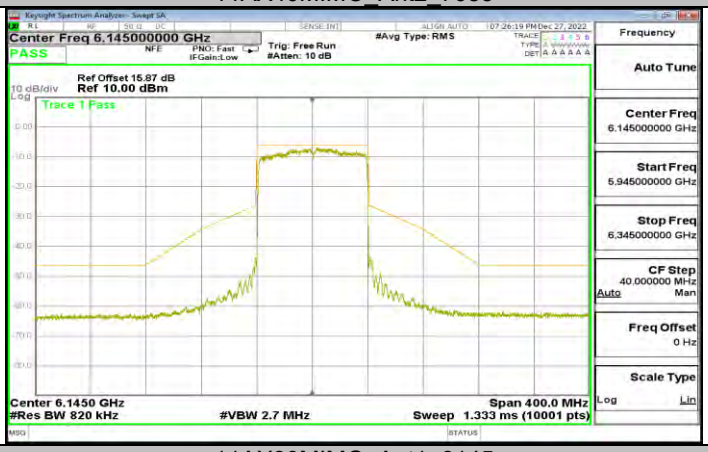

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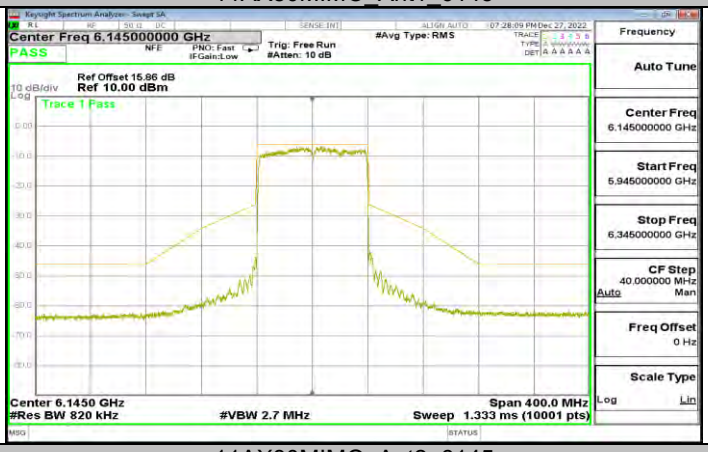

11AX80MIMO_Ant2_6145

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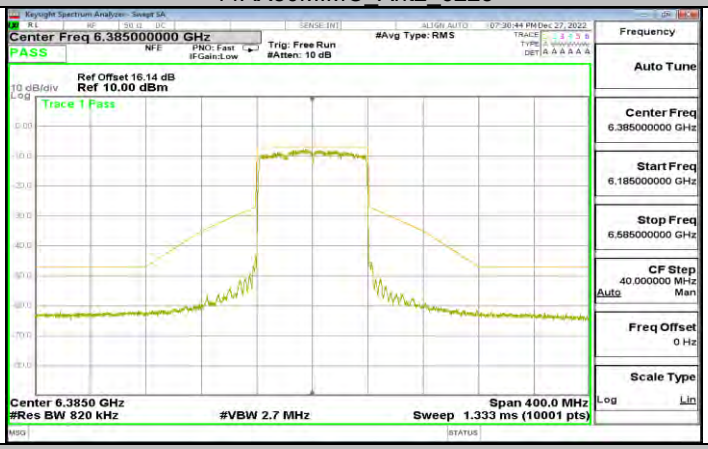
11AX80MIMO_Ant1_6225

11AX80MIMO_Ant2_6225



11AX80MIMO_Ant1_6385

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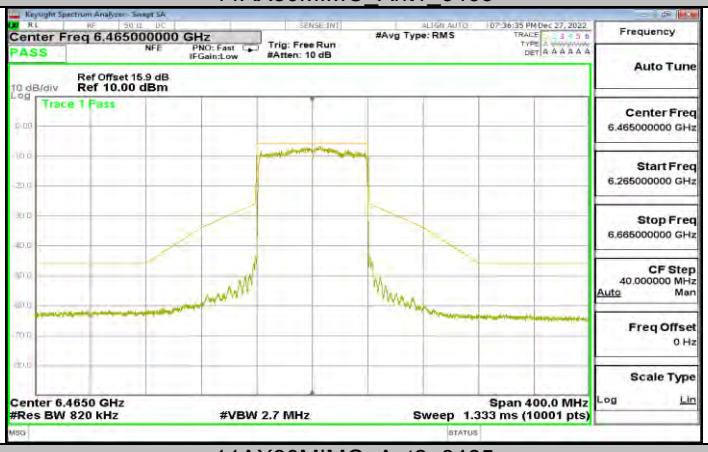
11AX80MIMO_Ant2_6385

11AX80MIMO_Ant1_6465



11AX80MIMO_Ant2_6465

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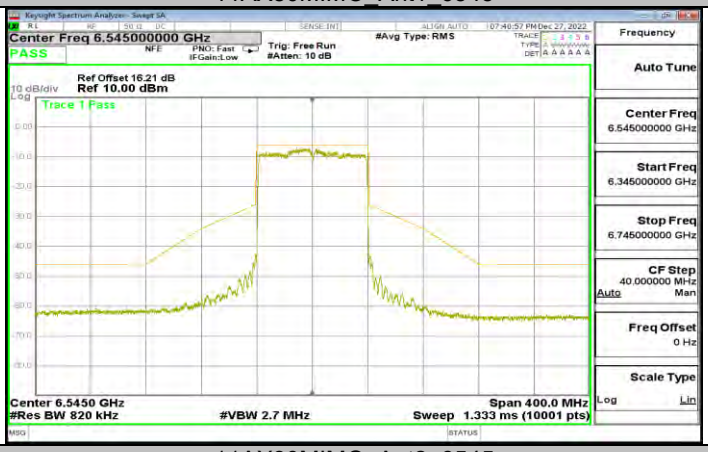
11AX80MIMO_Ant1_6545



11AX80MIMO_Ant2_6545

11AX80MIMO_Ant1_6705

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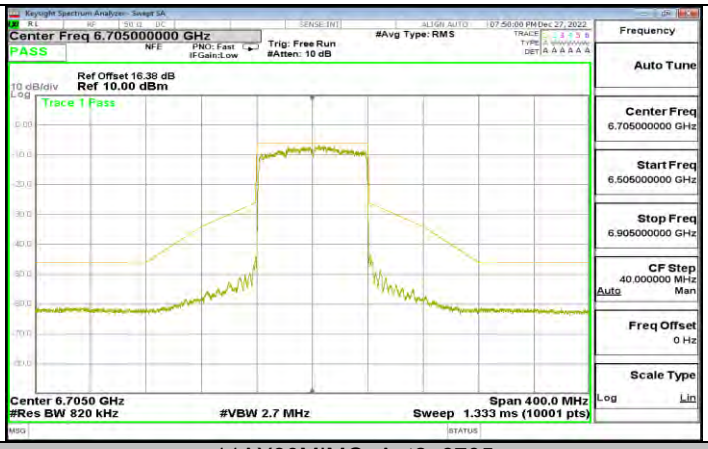

11AX80MIMO_Ant2_6705

11AX80MIMO_Ant1_6865

11AX80MIMO_Ant2_6865

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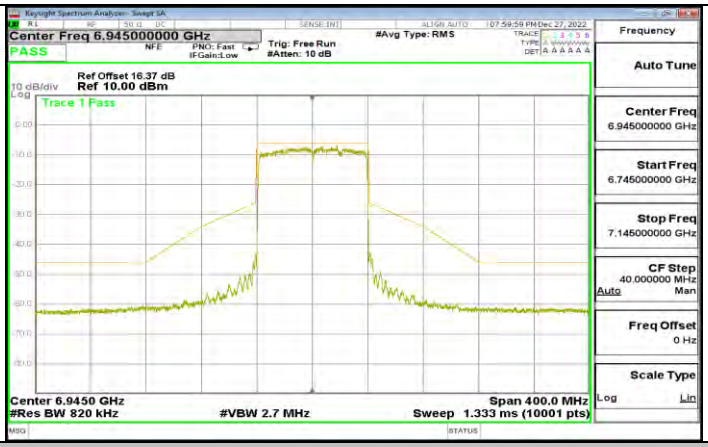

11AX80MIMO_Ant1_6945

11AX80MIMO_Ant2_6945

11AX80MIMO_Ant1_7025

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11AX80MIMO_Ant2_7025

11AX160MIMO_Ant1_6185

11AX160MIMO_Ant2_6185

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11AX160MIMO_Ant1_6345

11AX160MIMO_Ant2_6345

11AX160MIMO_Ant1_6505

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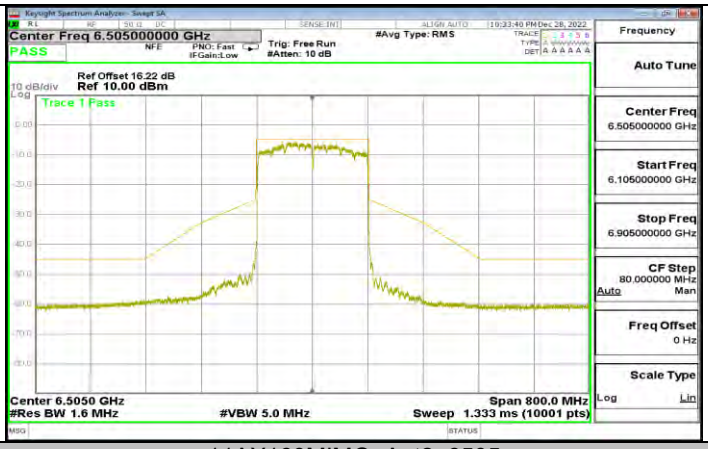

11AX160MIMO_Ant2_6505

11AX160MIMO_Ant1_6665

11AX160MIMO_Ant2_6665

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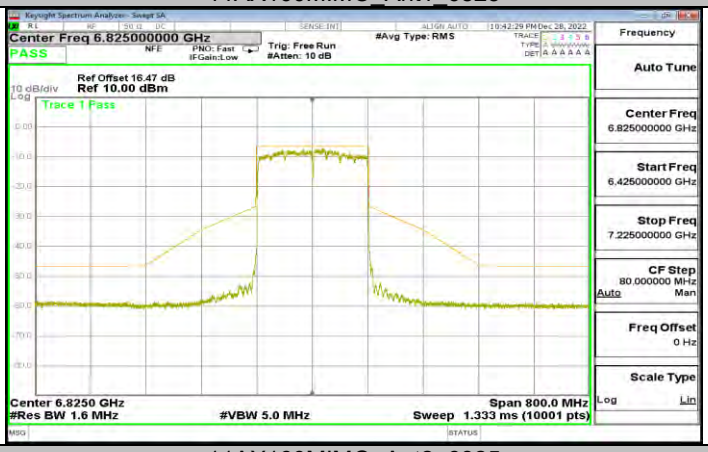
11AX160MIMO_Ant1_6825



11AX160MIMO_Ant2_6825

11AX160MIMO_Ant1_6985

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11AX160MIMO_Ant2_6985

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12.6. Appendix F: Contention Based Protocol

12.6.1. Test Result

Test Mode	Antenna	Frequency[MHz]	Frequency[MHz]	Result [dBm] (See Note)	Limit[dBm]	Verdict
11AX20MIMO	Ant1	6115	6115	-62.35	-62	PASS
		6455	6455	-62.29	-62	PASS
		6615	6615	-62.30	-62	PASS
		6895	6895	-62.37	-62	PASS
11AX160MIMO	Ant1	6185	6105	-62.27	-62	PASS
			6185	-62.23	-62	PASS
			6260	-62.30	-62	PASS
		6505	6430	-62.34	-62	PASS
			6505	-62.23	-62	PASS
			6580	-62.33	-62	PASS
		6665	6590	-62.37	-62	PASS
			6665	-62.33	-62	PASS
			6740	-62.35	-62	PASS
		6985	6910	-62.29	-62	PASS
			6985	-62.25	-62	PASS
			7060	-62.26	-62	PASS

Note: The -62 dBm threshold is referenced to a 0 dBi antenna gain according to KDB987594 D02 U-NII 6 GHz EMC Measurement, as the antenna gain of the EUT is the bigger than 0 dBm (Please refer to page 16 for the detail about antenna), so -62 dBm threshold can be consider as worst case, the result is the actual injected AWGN signal power level.

Test Mode	Antenna	Frequency[MHz]	Interference Frequency [MHz]		Test Number [n]	Number Detected [n]	Result [%]	Limit [%]	Verdict
11AX20MIMO	Ant1	6115	Center	6115	10	10	100	90	PASS
		6455	Center	6455	9	10	90	90	PASS
		6615	Center	6615	10	10	100	90	PASS
		6895	Center	6895	9	10	90	90	PASS
11AX160MIMO	Ant1	6185	High	6105	10	10	100	90	PASS
			Center	6185	10	10	100	90	PASS
			Low	6260	10	10	100	90	PASS
		6505	High	6430	10	10	100	90	PASS
			Center	6505	10	10	100	90	PASS
			Low	6580	9	10	90	90	PASS
		6665	High	6590	10	10	100	90	PASS
			Center	6665	10	10	100	90	PASS
			Low	6740	10	10	100	90	PASS
		6985	High	6910	10	10	100	90	PASS
			Center	6985	10	10	100	90	PASS
			Low	7060	9	10	90	90	PASS

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Test Mode	Antenna	Frequency[MHz]	Interference Frequency [MHz]		Test Time	Is Detected	Verdict
11AX20MIMO	Ant1	6115	Center	6115	1	Yes	PASS
			Center	6115	2	Yes	PASS
			Center	6115	3	Yes	PASS
			Center	6115	4	Yes	PASS
			Center	6115	5	Yes	PASS
			Center	6115	6	Yes	PASS
			Center	6115	7	Yes	PASS
			Center	6115	8	Yes	PASS
			Center	6115	9	Yes	PASS
			Center	6115	10	Yes	PASS
		6455	Center	6455	1	Yes	PASS
			Center	6455	2	No	FAIL
			Center	6455	3	Yes	PASS
			Center	6455	4	Yes	PASS
			Center	6455	5	Yes	PASS
			Center	6455	6	Yes	PASS
			Center	6455	7	Yes	PASS
			Center	6455	8	Yes	PASS
			Center	6455	9	Yes	PASS
			Center	6455	10	Yes	PASS
		6615	Center	6615	1	Yes	PASS
			Center	6615	2	Yes	PASS
			Center	6615	3	Yes	PASS
			Center	6615	4	Yes	PASS
			Center	6615	5	Yes	PASS
			Center	6615	6	Yes	PASS
			Center	6615	7	Yes	PASS
			Center	6615	8	Yes	PASS
			Center	6615	9	Yes	PASS
			Center	6615	10	Yes	PASS
		6895	Center	6895	1	No	FAIL
			Center	6895	2	Yes	PASS
			Center	6895	3	Yes	PASS
			Center	6895	4	Yes	PASS
			Center	6895	5	Yes	PASS
			Center	6895	6	Yes	PASS
			Center	6895	7	Yes	PASS
			Center	6895	8	Yes	PASS
			Center	6895	9	Yes	PASS
			Center	6895	10	Yes	PASS
11AX160MIMO	Ant1	6185	High	6110	1	Yes	PASS
			High	6110	2	Yes	PASS
			High	6110	3	Yes	PASS
			High	6110	4	Yes	PASS
			High	6110	5	Yes	PASS
			High	6110	6	Yes	PASS
			High	6110	7	Yes	PASS
			High	6110	8	Yes	PASS
			High	6110	9	Yes	PASS
			High	6110	10	Yes	PASS
			Center	6185	1	Yes	PASS
			Center	6185	2	Yes	PASS
			Center	6185	3	Yes	PASS
			Center	6185	4	Yes	PASS
			Center	6185	5	Yes	PASS
			Center	6185	6	Yes	PASS

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			Center	6185	7	Yes	PASS
			Center	6185	8	Yes	PASS
			Center	6185	9	Yes	PASS
			Center	6185	10	Yes	PASS
			Low	6260	1	Yes	PASS
			Low	6260	2	Yes	PASS
			Low	6260	3	Yes	PASS
			Low	6260	4	Yes	PASS
			Low	6260	5	Yes	PASS
			Low	6260	6	Yes	PASS
			Low	6260	7	Yes	PASS
			Low	6260	8	Yes	PASS
			Low	6260	9	Yes	PASS
			Low	6260	10	Yes	PASS
		6505	High	6430	1	Yes	PASS
			High	6430	2	Yes	PASS
			High	6430	3	Yes	PASS
			High	6430	4	Yes	PASS
			High	6430	5	Yes	PASS
			High	6430	6	Yes	PASS
			High	6430	7	Yes	PASS
			High	6430	8	Yes	PASS
			High	6430	9	Yes	PASS
			High	6430	10	Yes	PASS
			Center	6505	1	Yes	PASS
			Center	6505	2	Yes	PASS
			Center	6505	3	Yes	PASS
			Center	6505	4	Yes	PASS
			Center	6505	5	Yes	PASS
			Center	6505	6	Yes	PASS
			Center	6505	7	Yes	PASS
			Center	6505	8	Yes	PASS
			Center	6505	9	Yes	PASS
			Center	6505	10	Yes	PASS
			Low	6580	1	Yes	PASS
			Low	6580	2	Yes	PASS
			Low	6580	3	No	FAIL
			Low	6580	4	Yes	PASS
			Low	6580	5	Yes	PASS
			Low	6580	6	Yes	PASS
			Low	6580	7	Yes	PASS
			Low	6580	8	Yes	PASS
			Low	6580	9	Yes	PASS
			Low	6580	10	Yes	PASS
		6665	High	6590	1	Yes	PASS
			High	6590	2	Yes	PASS
			High	6590	3	Yes	PASS
			High	6590	4	Yes	PASS
			High	6590	5	Yes	PASS
			High	6590	6	Yes	PASS
			High	6590	7	Yes	PASS
			High	6590	8	Yes	PASS
			High	6590	9	Yes	PASS
			High	6590	10	Yes	PASS
			Center	6665	1	Yes	PASS
			Center	6665	2	Yes	PASS
			Center	6665	3	Yes	PASS
			Center	6665	4	Yes	PASS
			Center	6665	5	Yes	PASS
			Center	6665	6	Yes	PASS

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