11G_Ant2_2437

11G_Ant1_2462

11G_Ant2_2462

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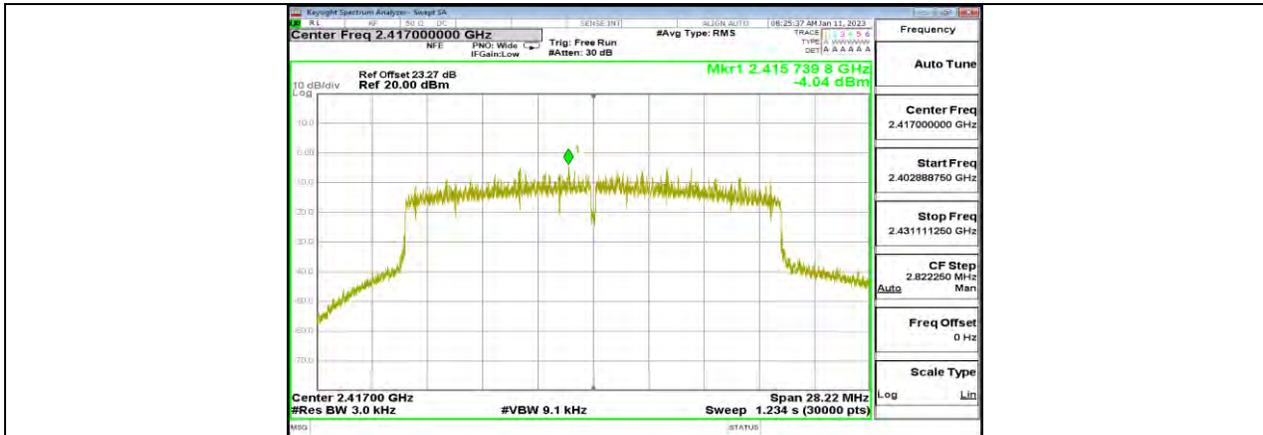*This report shall not be reproduced except in full, without the written approval of UL Verification Services (Guangzhou) Co., Ltd, Song Shan Lake Branch.*
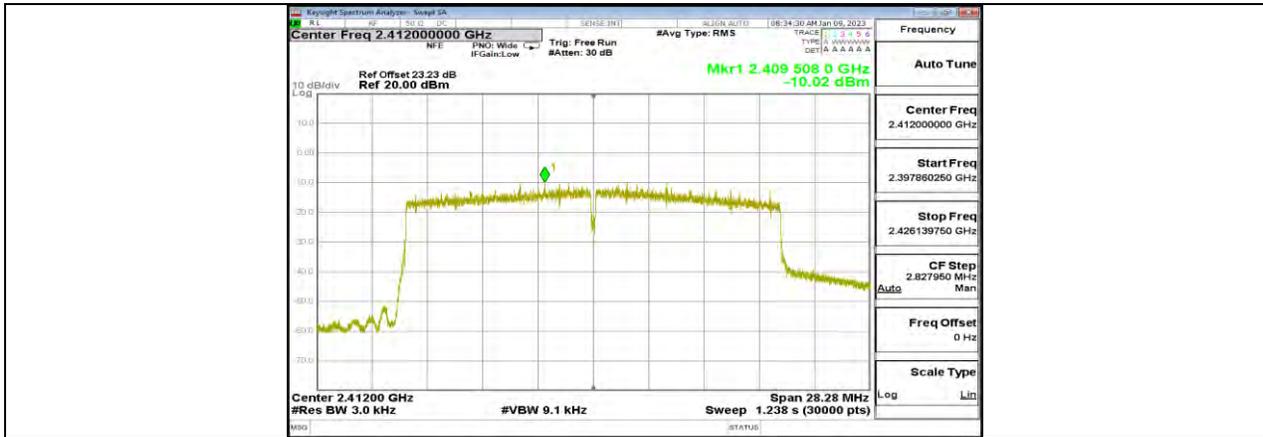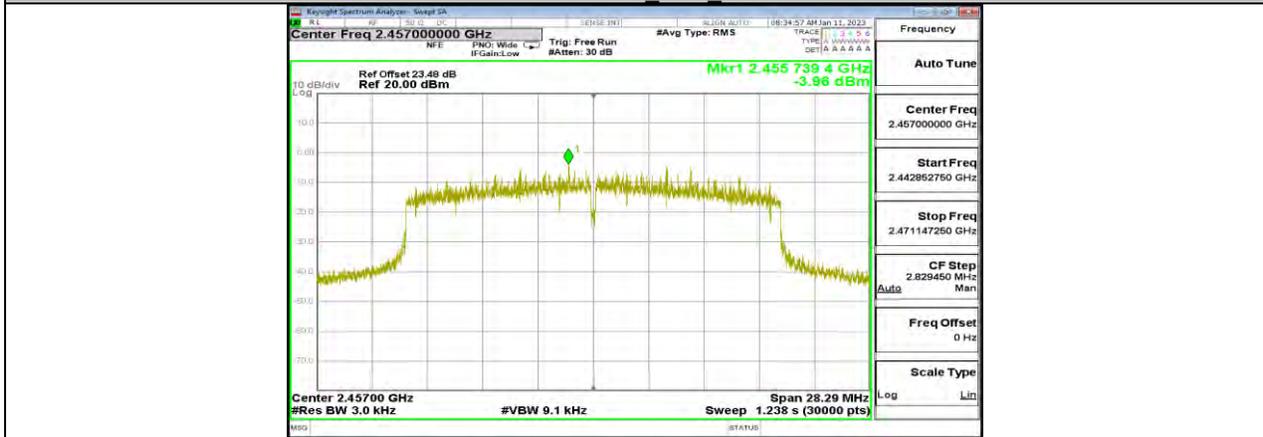
11AX20MIMO_Ant1_2412

11AX20MIMO_Ant2_2412

11AX20MIMO_Ant1_2417

11AX20MIMO_Ant2_2417

11AX20MIMO_Ant1_2437

11AX20MIMO_Ant2_2437

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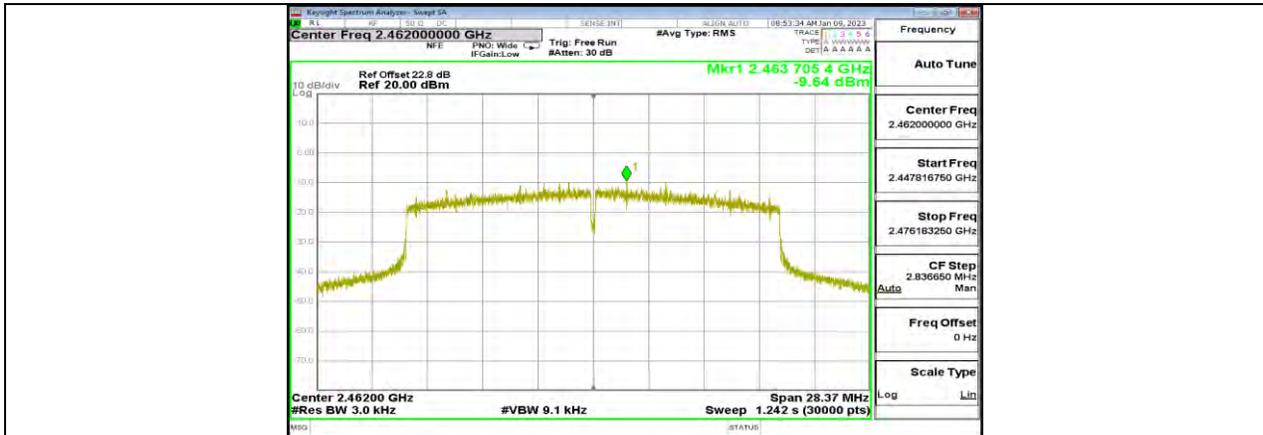
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11AX20MIMO_Ant2_2457

11AX20MIMO_Ant1_2462

11AX20MIMO_Ant2_2462
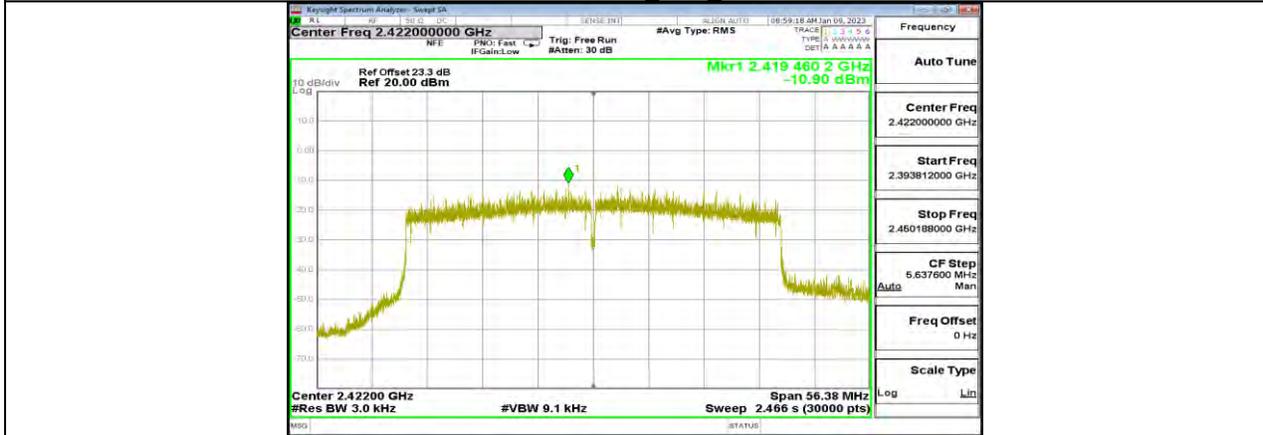
11AX40MIMO_Ant1_2422

11AX40MIMO_Ant2_2422

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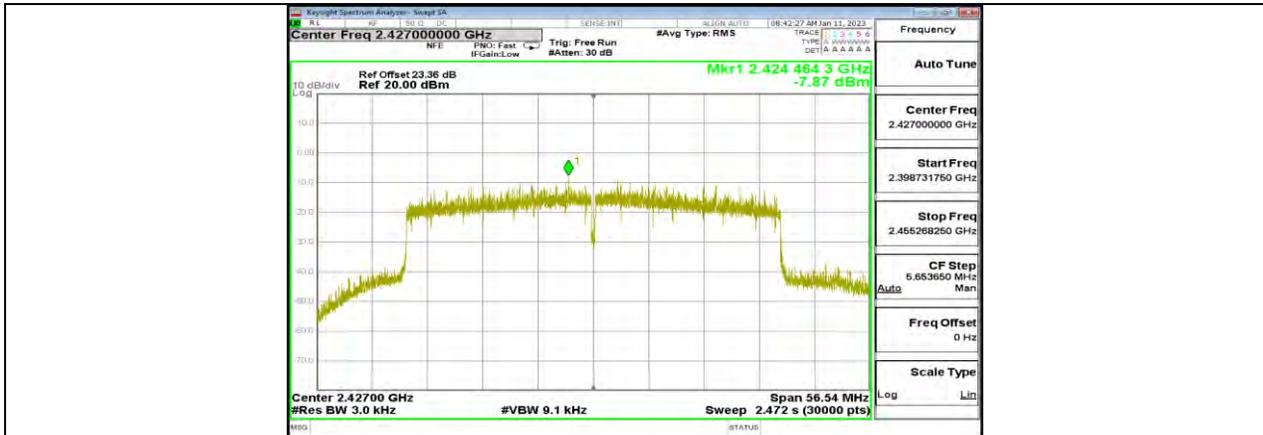
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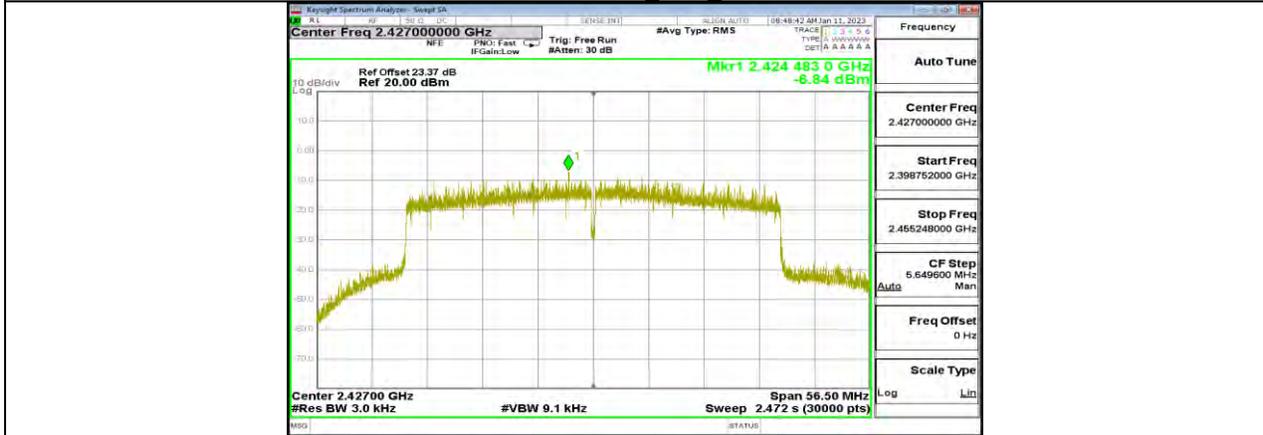
11AX40MIMO_Ant2_2427

11AX40MIMO_Ant1_2437

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11AX40MIMO_Ant2_2437

11AX40MIMO_Ant1_2447

11AX40MIMO_Ant2_2447

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11AX40MIMO_Ant1_2452

11AX40MIMO_Ant2_2452

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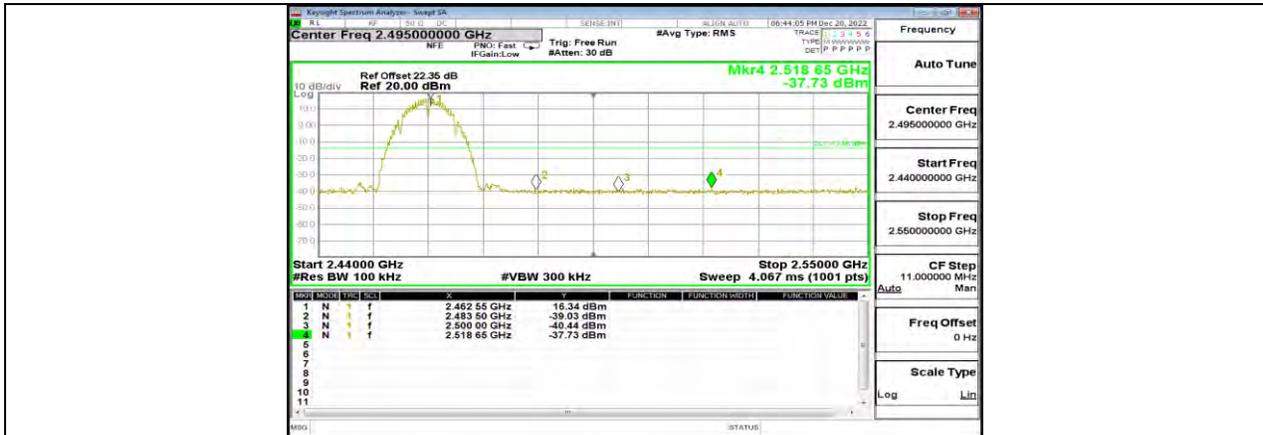
11.5. APPENDIX E: BAND EDGE MEASUREMENTS
11.5.1. Test Result

Test Mode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	15.11	-34.75	≤-14.9	PASS
	Ant2	Low	2412	16.12	-34.68	≤-13.88	PASS
	Ant1	High	2462	15.30	-37.39	≤-14.7	PASS
	Ant2	High	2462	16.34	-37.73	≤-13.66	PASS
11G	Ant1	Low	2412	13.05	-31.54	≤-16.95	PASS
	Ant2	Low	2412	14.21	-28.81	≤-15.79	PASS
	Ant1	High	2462	13.57	-37.68	≤-16.43	PASS
	Ant2	High	2462	14.60	-36.56	≤-15.4	PASS
11AX20MIMO	Ant1	Low	2412	12.92	-31.91	≤-17.08	PASS
	Ant2	Low	2412	14.33	-28.78	≤-15.67	PASS
	Ant1	Low	2417	13.18	-35.12	≤-16.82	PASS
	Ant2	Low	2417	14.53	-36.92	≤-15.47	PASS
	Ant1	High	2457	13.51	-37.06	≤-16.49	PASS
	Ant2	High	2457	14.72	-37.35	≤-15.28	PASS
	Ant1	High	2462	13.24	-38.03	≤-16.76	PASS
	Ant2	High	2462	14.53	-35.5	≤-15.47	PASS
11AX40MIMO	Ant1	Low	2422	10.29	-26.19	≤-19.71	PASS
	Ant2	Low	2422	11.81	-26.36	≤-18.2	PASS
	Ant1	Low	2427	10.37	-25.83	≤-19.63	PASS
	Ant2	Low	2427	11.94	-26.5	≤-18.06	PASS
	Ant1	High	2447	10.31	-37.48	≤-19.69	PASS
	Ant2	High	2447	11.76	-33.47	≤-18.25	PASS
	Ant1	High	2452	10.47	-31.61	≤-19.53	PASS
	Ant2	High	2452	11.61	-28.09	≤-18.39	PASS

11.5.2. Test Graphs

11B_Ant1_Low_2412

11B_Ant2_Low_2412
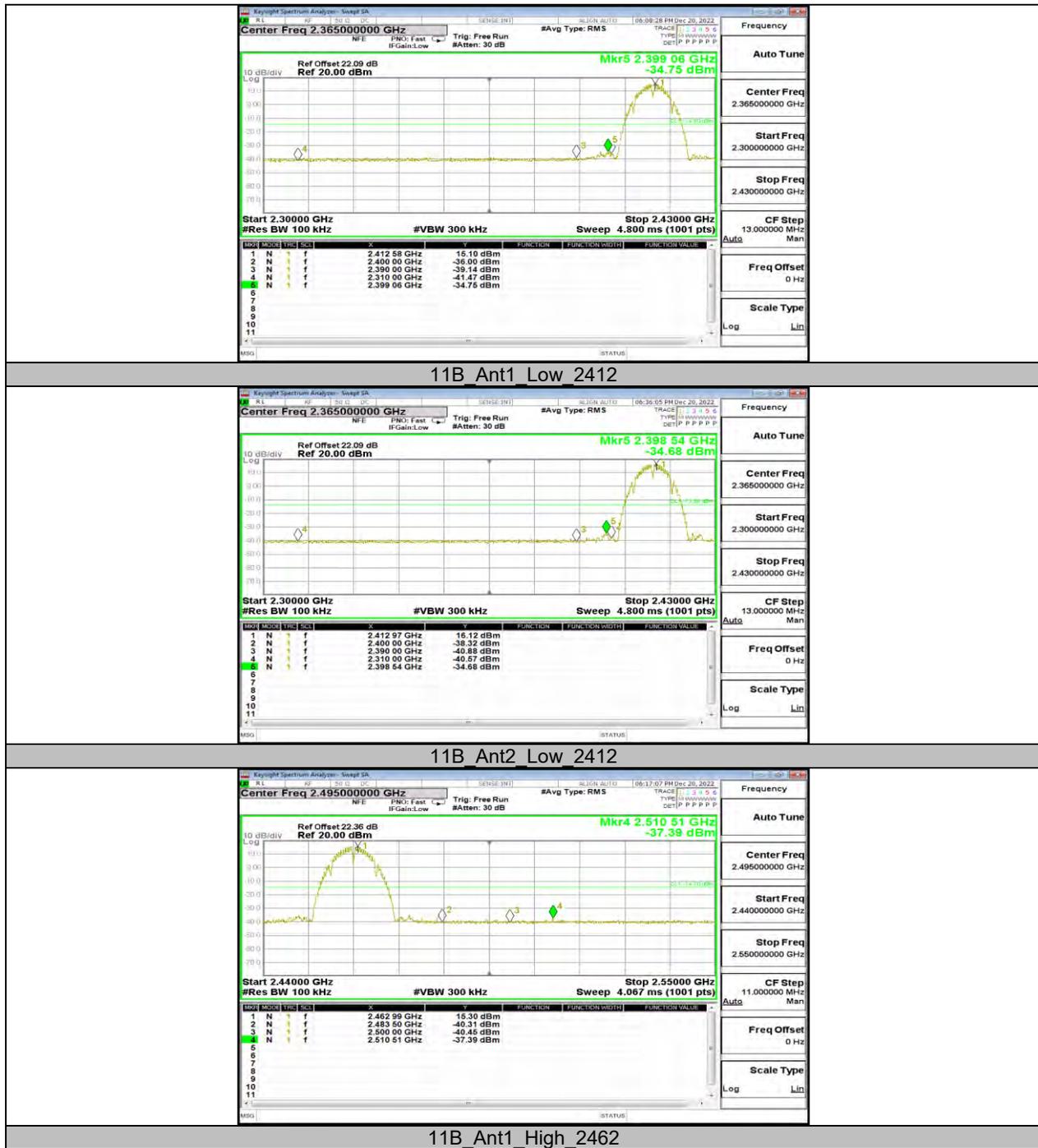
11B_Ant1_High_2462

11B_Ant2_High_2462

11G_Ant1_Low_2412

11G_Ant2_Low_2412

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11G_Ant1_High_2462

11G_Ant2_High_2462

11AX20MIMO_Ant1_Low_2412

11AX20MIMO_Ant2_Low_2412
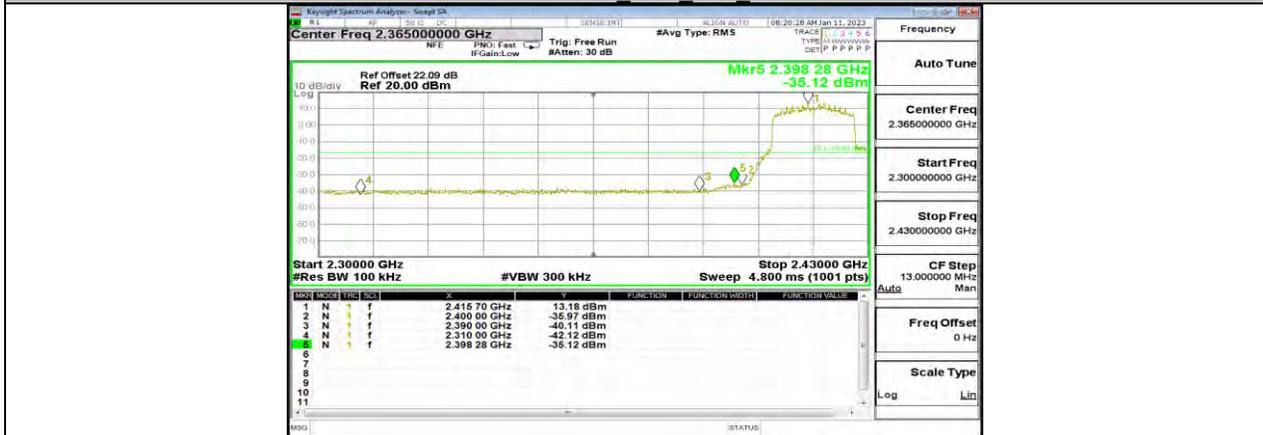
11AX20MIMO_Ant1_Low_2417
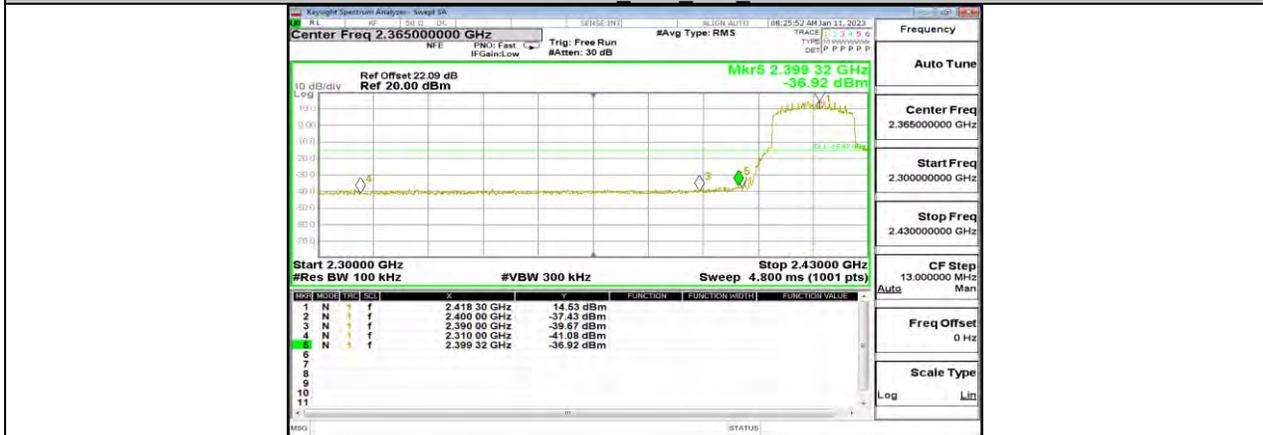
11AX20MIMO_Ant2_Low_2417

11AX20MIMO_Ant1_High_2457

11AX20MIMO_Ant2_High_2457

11AX20MIMO_Ant1_High_2462
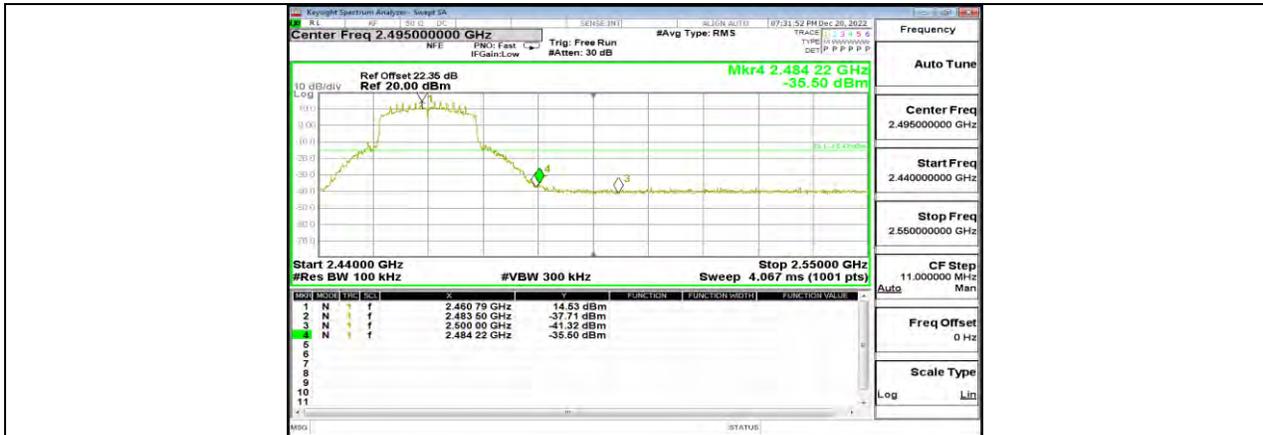
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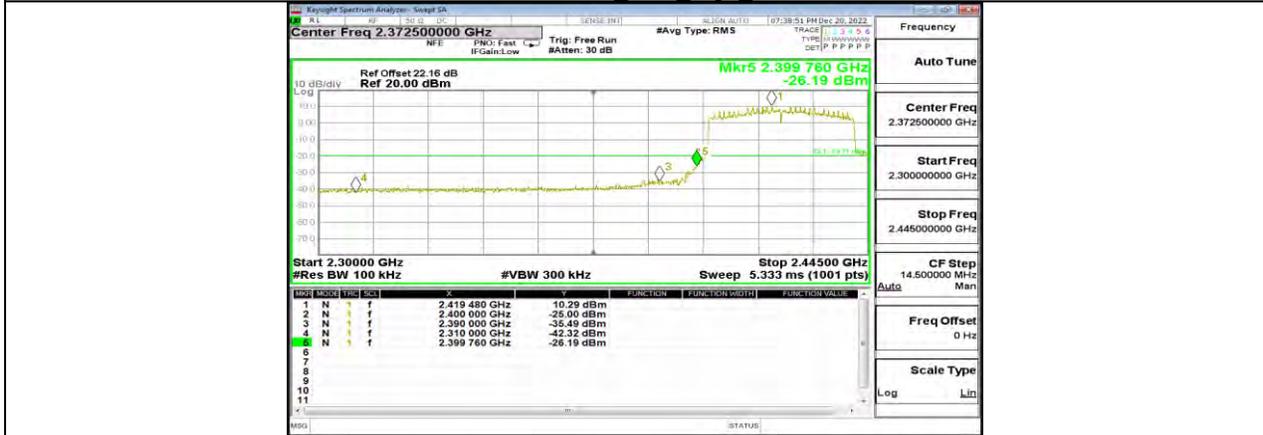
11AX40MIMO_Ant1_Low_2422

11AX40MIMO_Ant2_Low_2422

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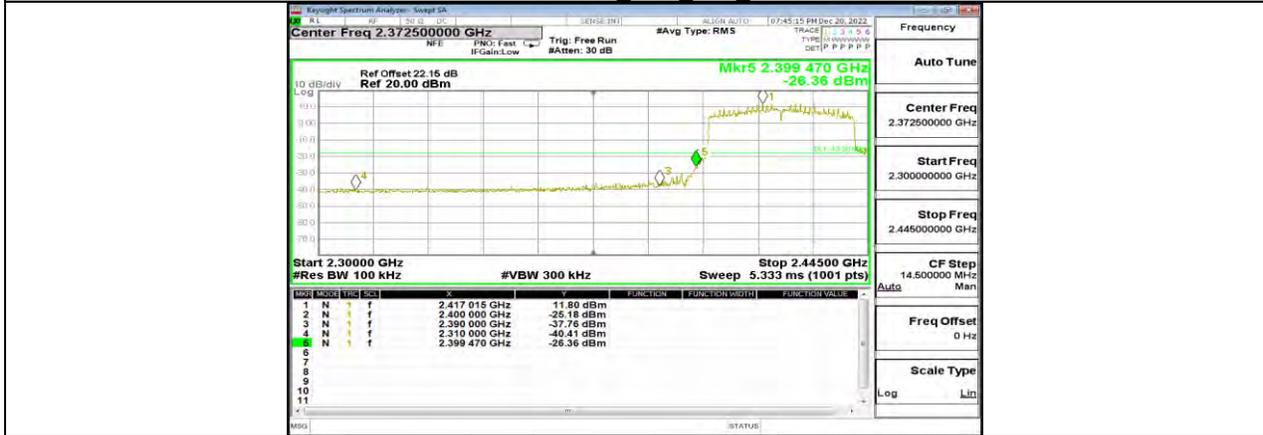
11AX40MIMO_Ant1_Low_2427

11AX40MIMO_Ant2_Low_2427

11AX40MIMO_Ant1_High_2447

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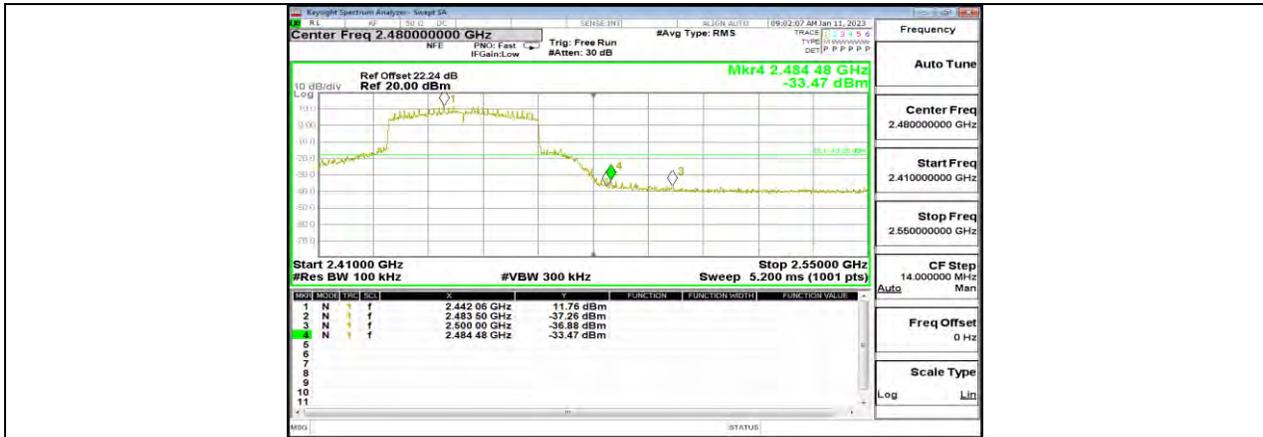
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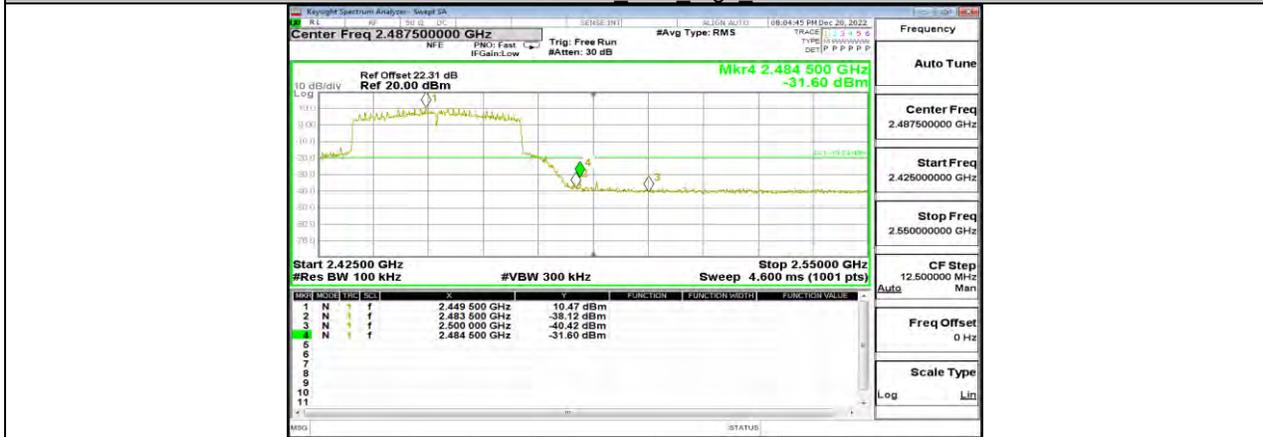
11AX40MIMO_Ant1_High_2452

11AX40MIMO_Ant2_High_2452

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11.6. APPENDIX F: CONDUCTED SPURIOUS EMISSION
11.6.1.   Test Result

Test Mode	Antenna	Channel	FreqRange [Mhz]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	15.11	---	PASS
			30~1000	-49.81	≤-14.89	PASS
			1000~26500	-40.59	≤-14.89	PASS
	Ant2	2412	Reference	16.57	---	PASS
			30~1000	-49.75	≤-13.43	PASS
			1000~26500	-42.18	≤-13.43	PASS
	Ant1	2437	Reference	15.30	---	PASS
			30~1000	-49.74	≤-14.7	PASS
			1000~26500	-41.6	≤-14.7	PASS
	Ant2	2437	Reference	16.43	---	PASS
			30~1000	-50.13	≤-13.57	PASS
			1000~26500	-41.36	≤-13.57	PASS
	Ant1	2462	Reference	15.28	---	PASS
			30~1000	-49.57	≤-14.72	PASS
			1000~26500	-41.26	≤-14.72	PASS
	Ant2	2462	Reference	16.19	---	PASS
			30~1000	-49.74	≤-13.81	PASS
			1000~26500	-41.37	≤-13.81	PASS
11G	Ant1	2412	Reference	13.16	---	PASS
			30~1000	-49.74	≤-16.84	PASS
			1000~26500	-41.91	≤-16.84	PASS
	Ant2	2412	Reference	14.10	---	PASS
			30~1000	-49.95	≤-15.9	PASS
			1000~26500	-41.89	≤-15.9	PASS
	Ant1	2437	Reference	13.46	---	PASS
			30~1000	-49.76	≤-16.54	PASS
			1000~26500	-41.75	≤-16.54	PASS
	Ant2	2437	Reference	14.26	---	PASS
			30~1000	-50.15	≤-15.74	PASS
			1000~26500	-41.63	≤-15.74	PASS
	Ant1	2462	Reference	13.48	---	PASS
			30~1000	-49.97	≤-16.52	PASS
			1000~26500	-41	≤-16.52	PASS
	Ant2	2462	Reference	14.43	---	PASS
			30~1000	-49.98	≤-15.57	PASS
			1000~26500	-41.32	≤-15.57	PASS
11AX20MIMO	Ant1	2412	Reference	13.05	---	PASS
			30~1000	-50.1	≤-16.95	PASS
			1000~26500	-41.03	≤-16.95	PASS
	Ant2	2412	Reference	14.30	---	PASS
			30~1000	-49.91	≤-15.7	PASS
			1000~26500	-41.38	≤-15.7	PASS
	Ant1	2417	Reference	13.17	---	PASS
			30~1000	-49.61	≤-16.83	PASS
			1000~26500	-41.43	≤-16.83	PASS
	Ant2	2417	Reference	14.53	---	PASS
			30~1000	-49.09	≤-15.47	PASS
			1000~26500	-41.82	≤-15.47	PASS
	Ant1	2437	Reference	13.31	---	PASS
			30~1000	-48.96	≤-16.69	PASS
			1000~26500	-42.01	≤-16.69	PASS
	Ant2	2437	Reference	14.53	---	PASS
			30~1000	-48.83	≤-15.47	PASS
			1000~26500	-41.26	≤-15.47	PASS
	Ant1	2457	Reference	13.27	---	PASS

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			30~1000	-48.93	≤-16.73	PASS
			1000~26500	-41.41	≤-16.73	PASS
	Ant2	2457	Reference	14.72	---	PASS
			30~1000	-49.77	≤-15.28	PASS
			1000~26500	-40.95	≤-15.28	PASS
	Ant1	2462	Reference	13.40	---	PASS
			30~1000	-49.11	≤-16.6	PASS
			1000~26500	-41.65	≤-16.6	PASS
	Ant2	2462	Reference	14.54	---	PASS
			30~1000	-49.99	≤-15.46	PASS
			1000~26500	-40.85	≤-15.46	PASS
11AX40MIMO	Ant1	2422	Reference	10.27	---	PASS
			30~1000	-50.08	≤-19.73	PASS
			1000~26500	-41.77	≤-19.73	PASS
	Ant2	2422	Reference	11.81	---	PASS
			30~1000	-49.7	≤-18.19	PASS
			1000~26500	-40.83	≤-18.19	PASS
	Ant1	2427	Reference	10.36	---	PASS
			30~1000	-49.53	≤-19.64	PASS
			1000~26500	-41.41	≤-19.64	PASS
	Ant2	2427	Reference	11.98	---	PASS
			30~1000	-49.41	≤-18.02	PASS
			1000~26500	-41.38	≤-18.02	PASS
	Ant1	2437	Reference	10.10	---	PASS
			30~1000	-49.74	≤-19.9	PASS
			1000~26500	-41.36	≤-19.9	PASS
	Ant2	2437	Reference	11.69	---	PASS
			30~1000	-50.35	≤-18.31	PASS
			1000~26500	-42.07	≤-18.31	PASS
	Ant1	2447	Reference	10.33	---	PASS
			30~1000	-49.26	≤-19.67	PASS
			1000~26500	-41.94	≤-19.67	PASS
	Ant2	2447	Reference	11.76	---	PASS
			30~1000	-48.88	≤-18.24	PASS
			1000~26500	-41.28	≤-18.24	PASS
	Ant1	2452	Reference	10.47	---	PASS
			30~1000	-49.9	≤-19.53	PASS
			1000~26500	-41.65	≤-19.53	PASS
	Ant2	2452	Reference	11.62	---	PASS
			30~1000	-49.26	≤-18.38	PASS
			1000~26500	-41.88	≤-18.38	PASS

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11.6.2. Test Graphs

11B_Ant1_2412_0~Reference

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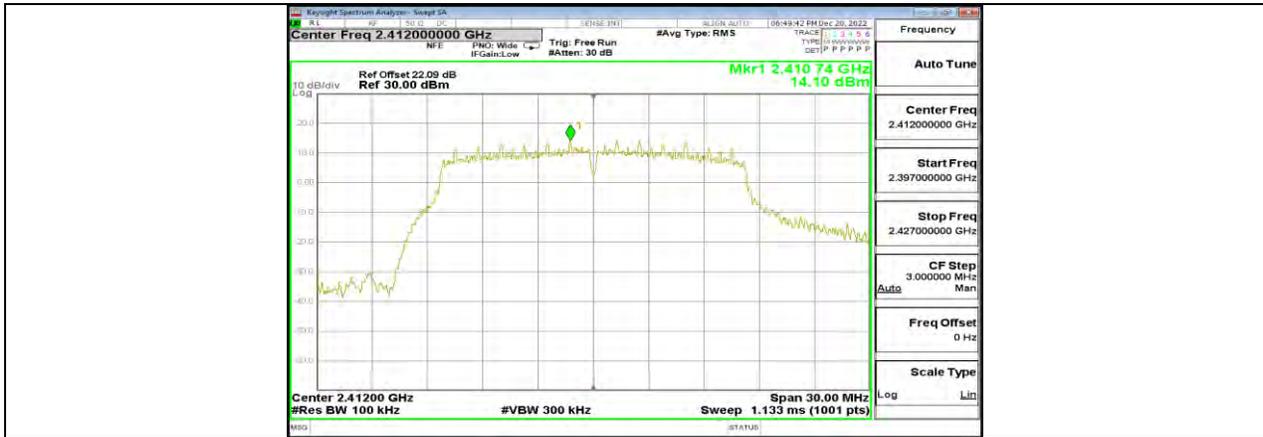

11B_Ant1_2412_1000~26500
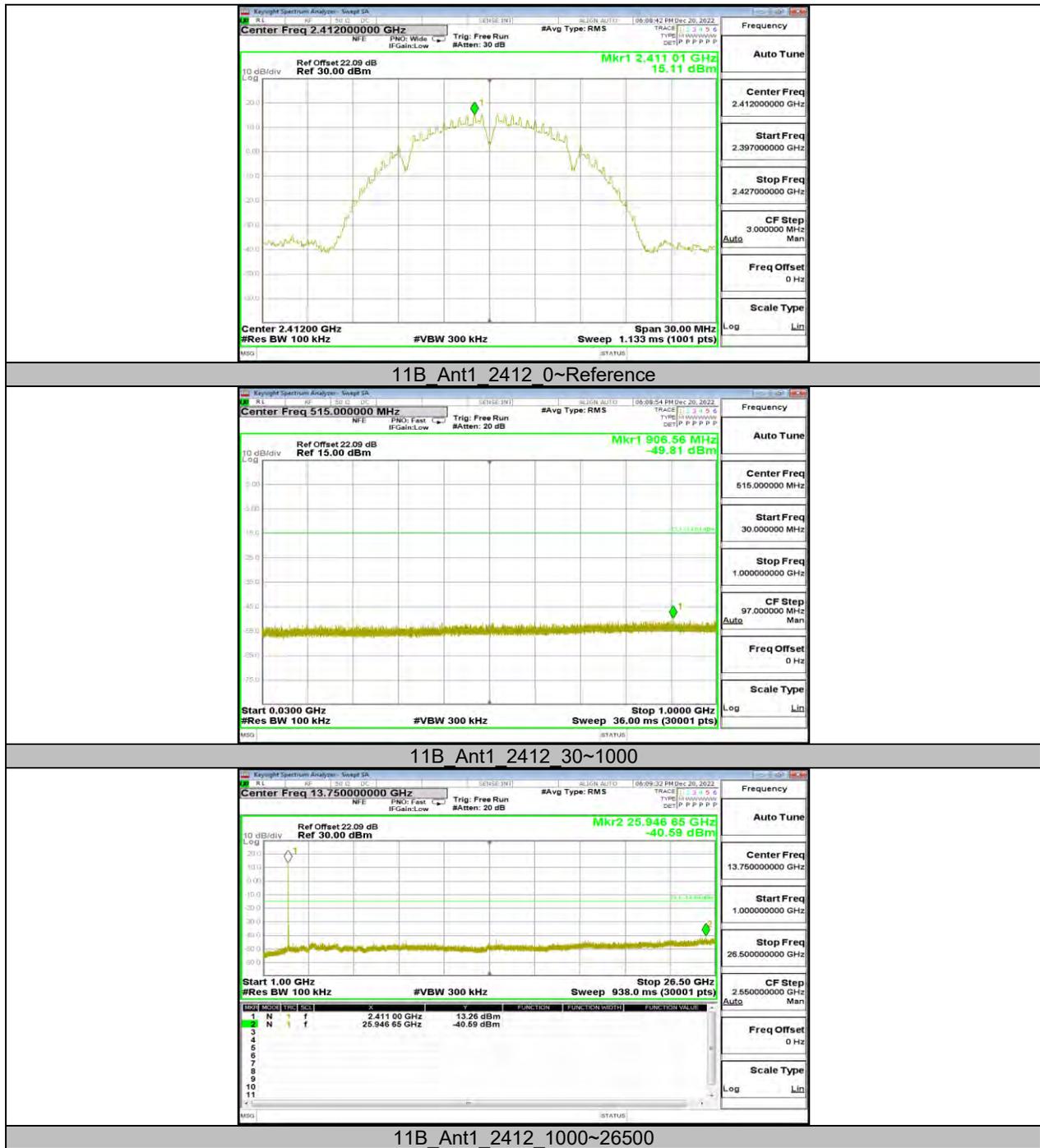
11B_Ant2_2412_0~Reference
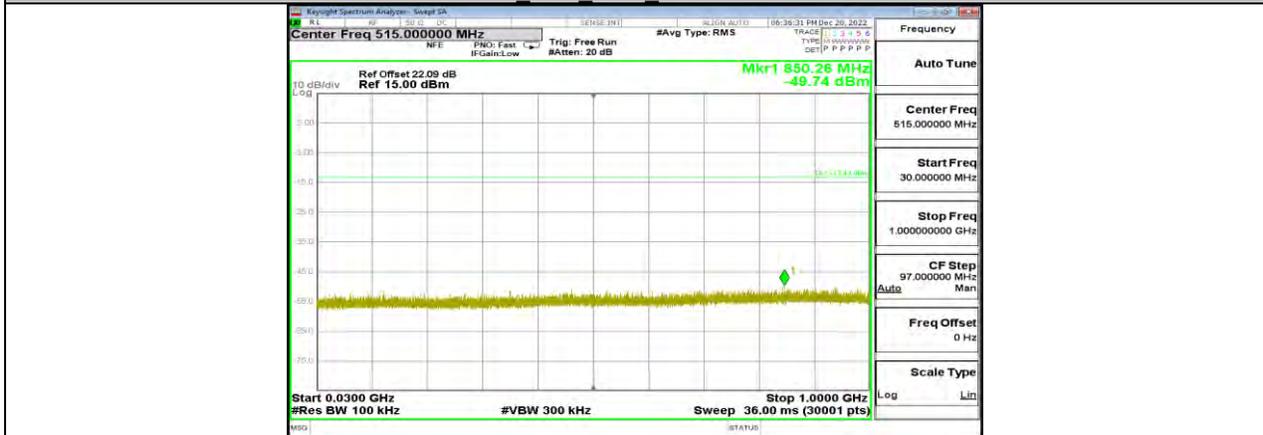
11B_Ant2_2412_30~1000

11B_Ant2_2412_1000~26500

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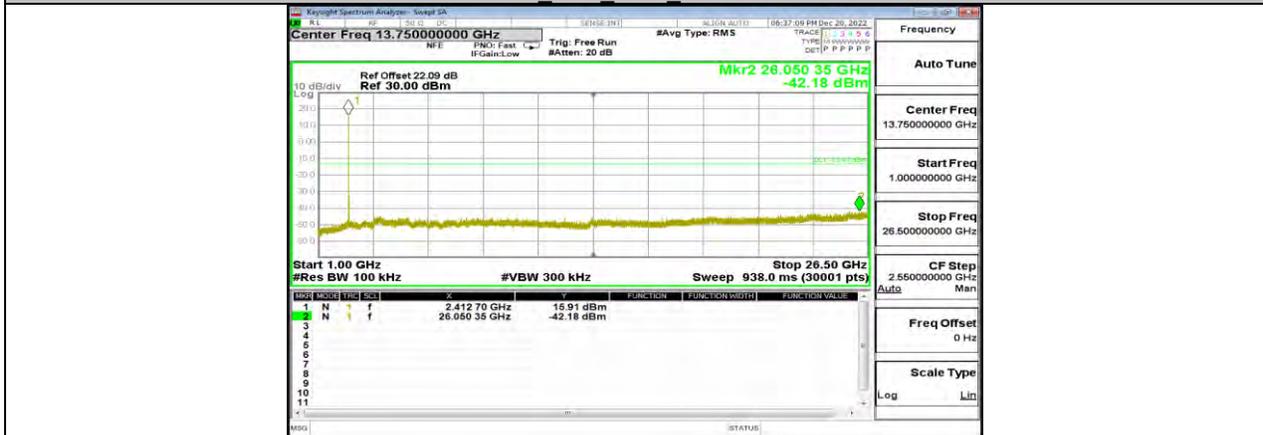
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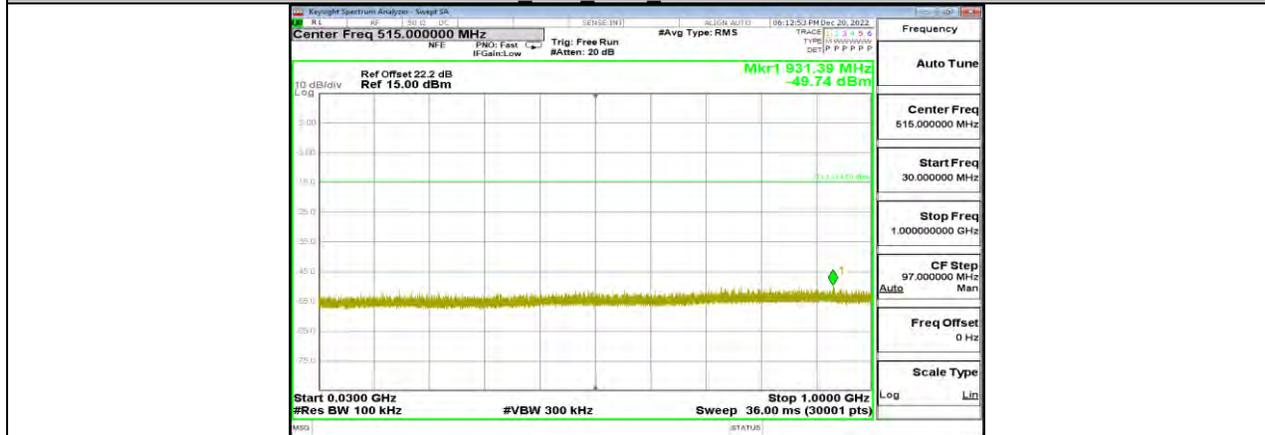
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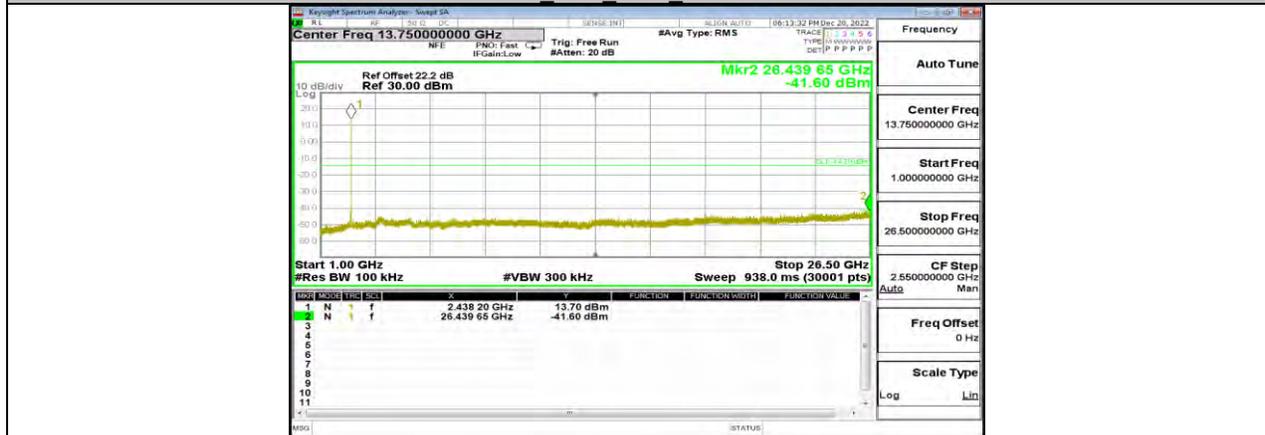
11B_Ant1_2437_1000~26500

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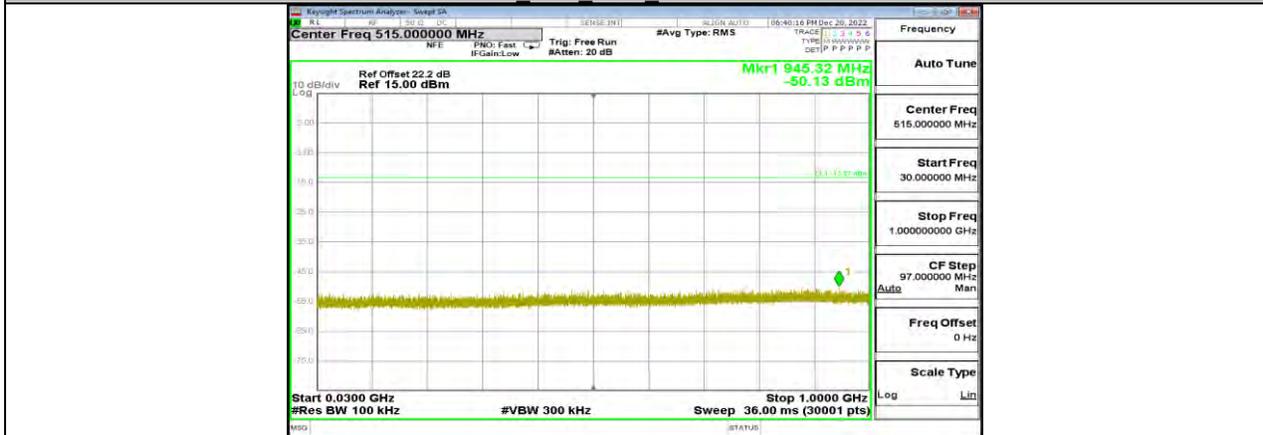
11B_Ant2_2437_30~1000

11B_Ant2_2437_1000~26500

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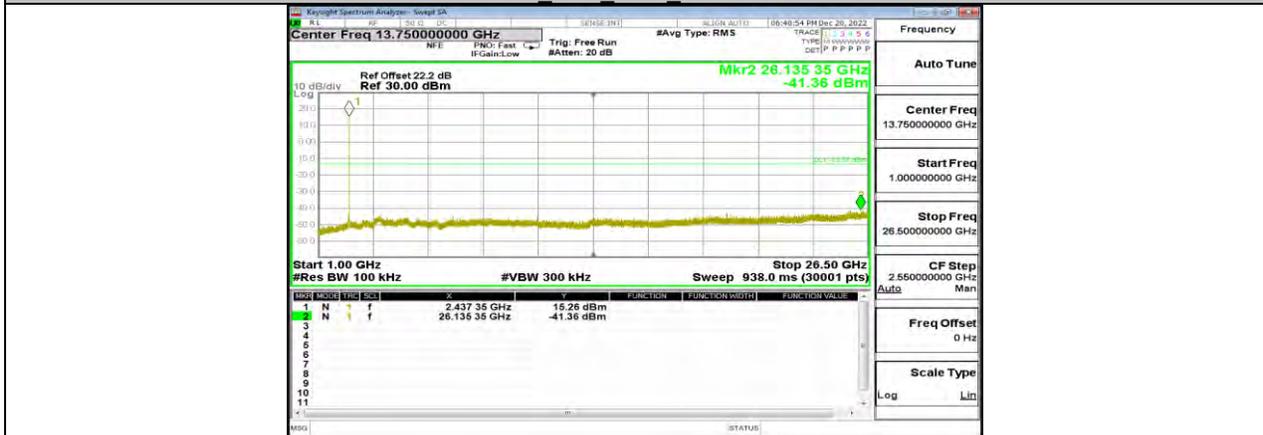
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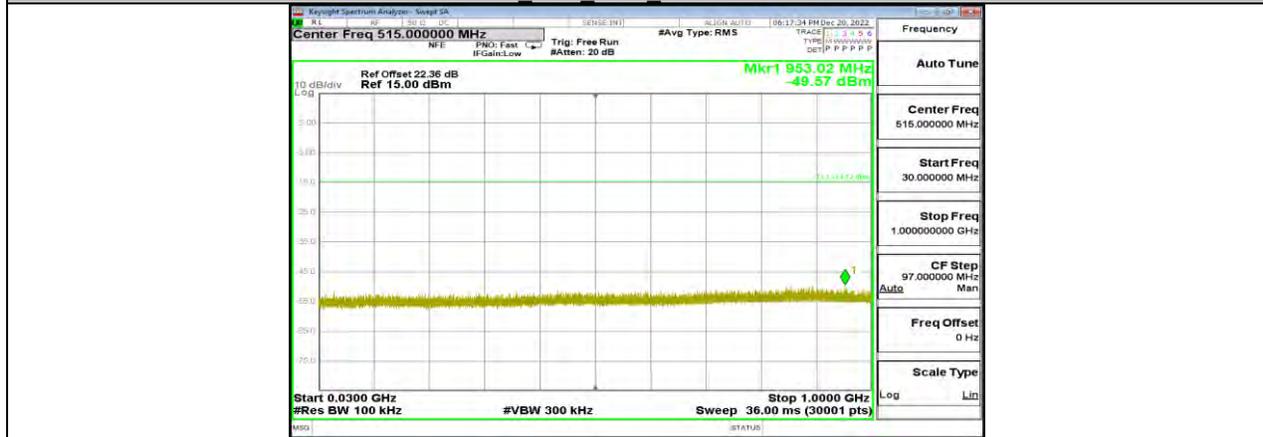
11B_Ant1_2462_30~1000

11B_Ant1_2462_1000~26500

11B_Ant2_2462_0~Reference

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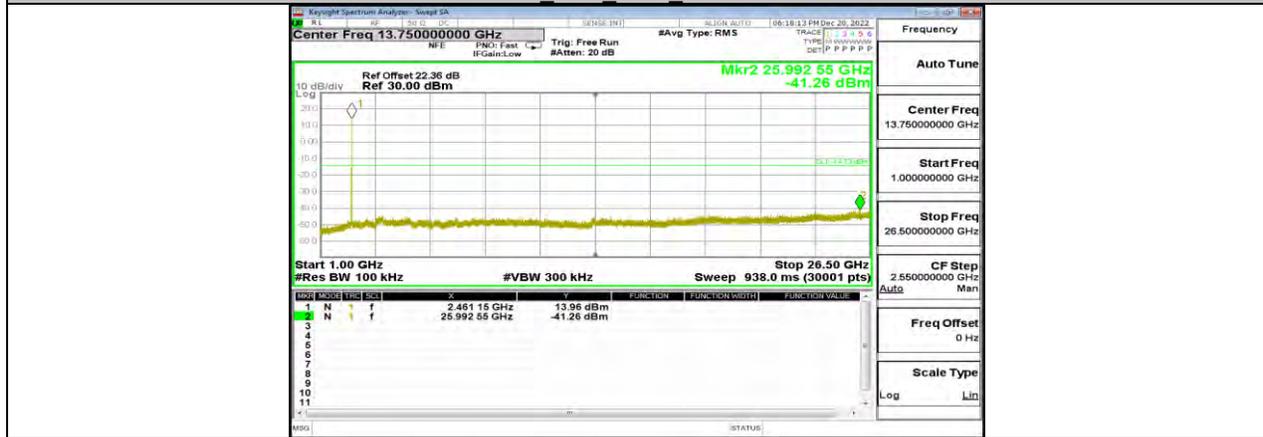
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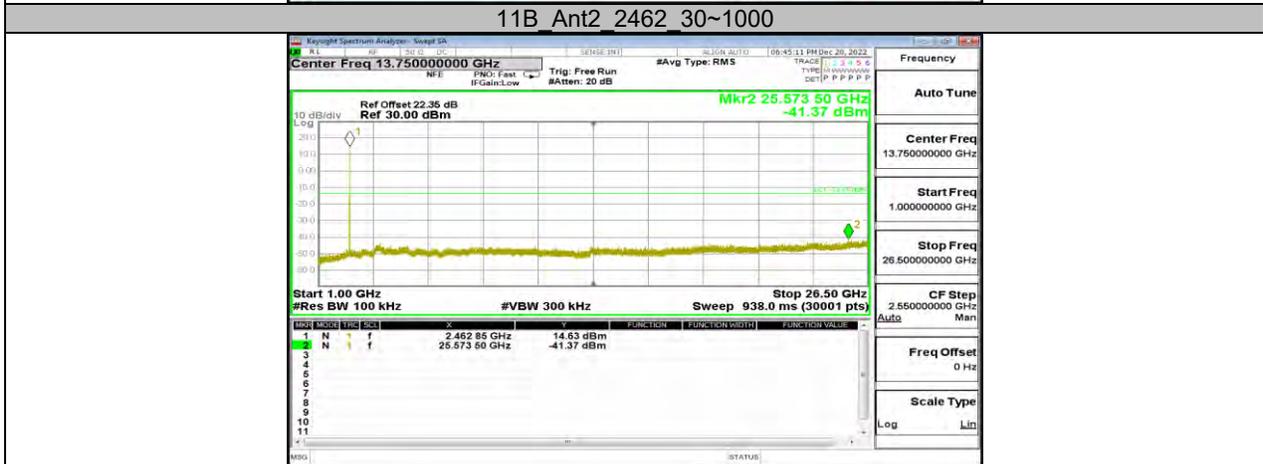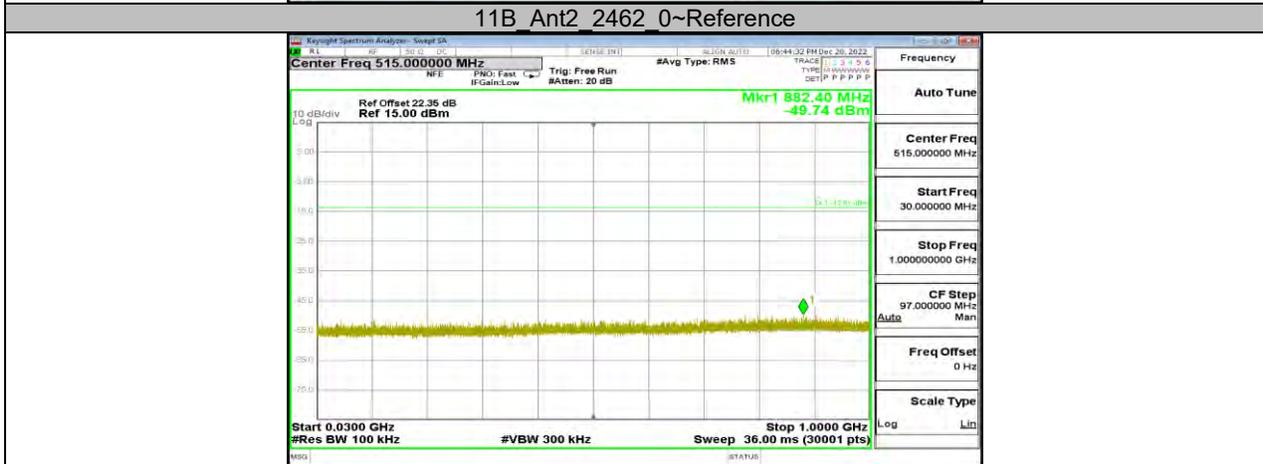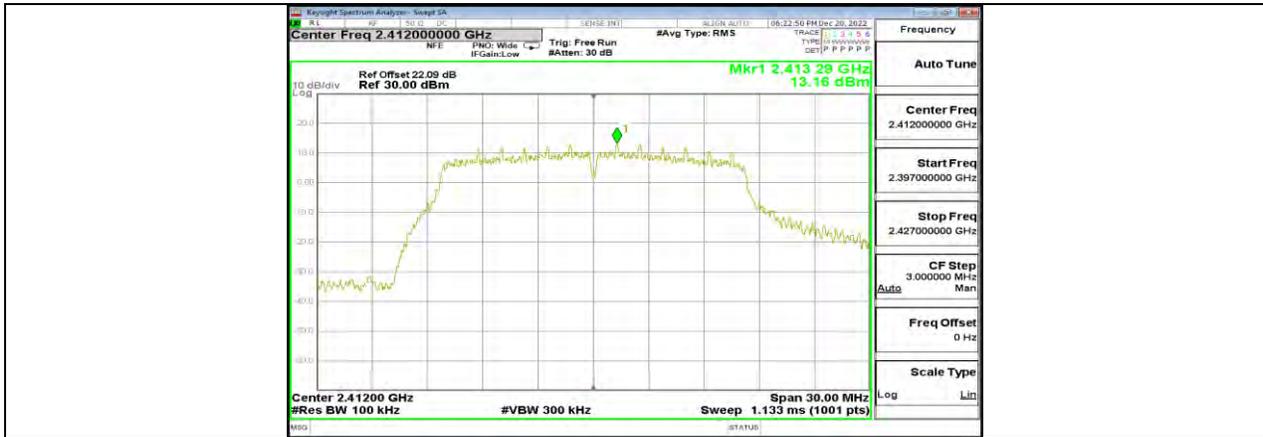
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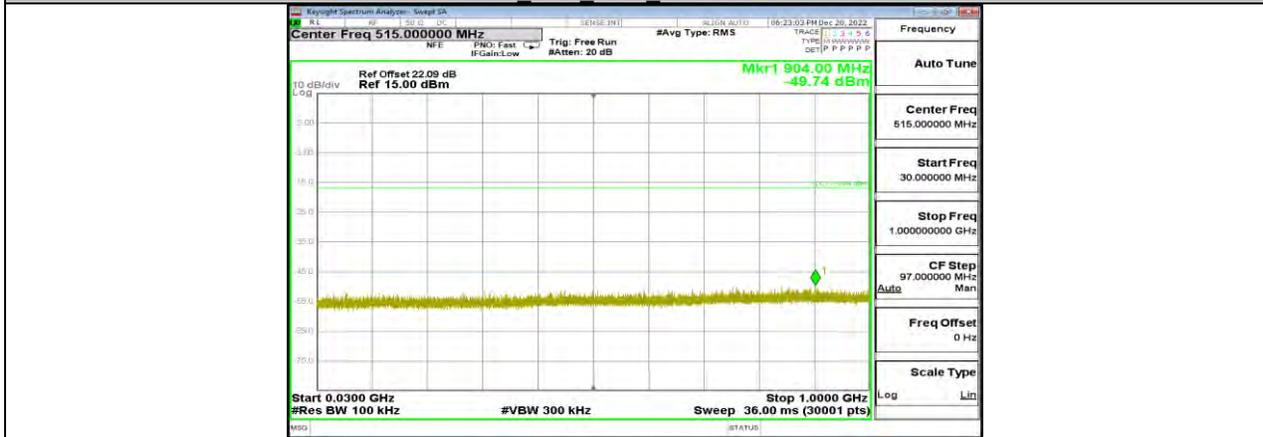
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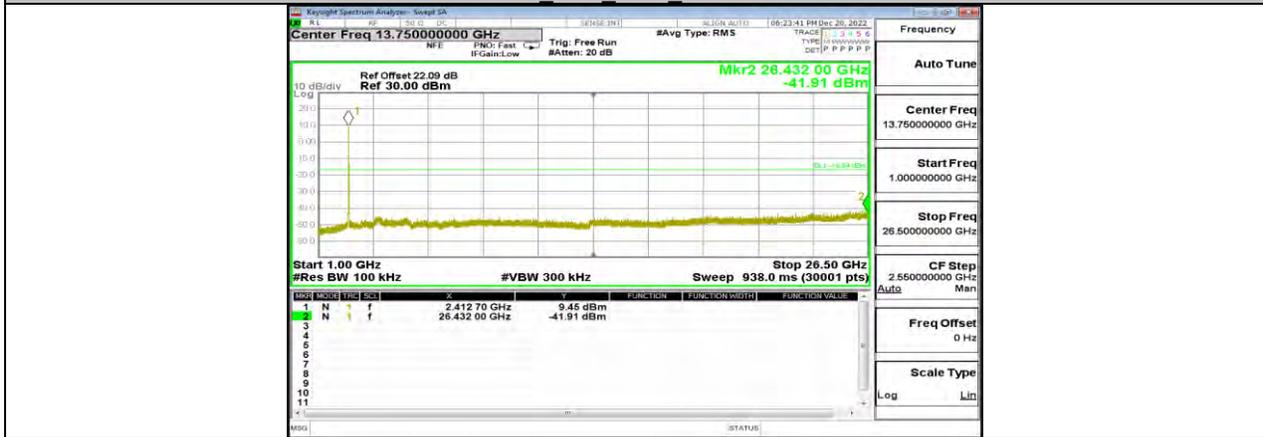
11G_Ant1_2412_1000~26500

11G_Ant2_2412_0~Reference

11G_Ant2_2412_30~1000

11G_Ant2_2412_1000~26500

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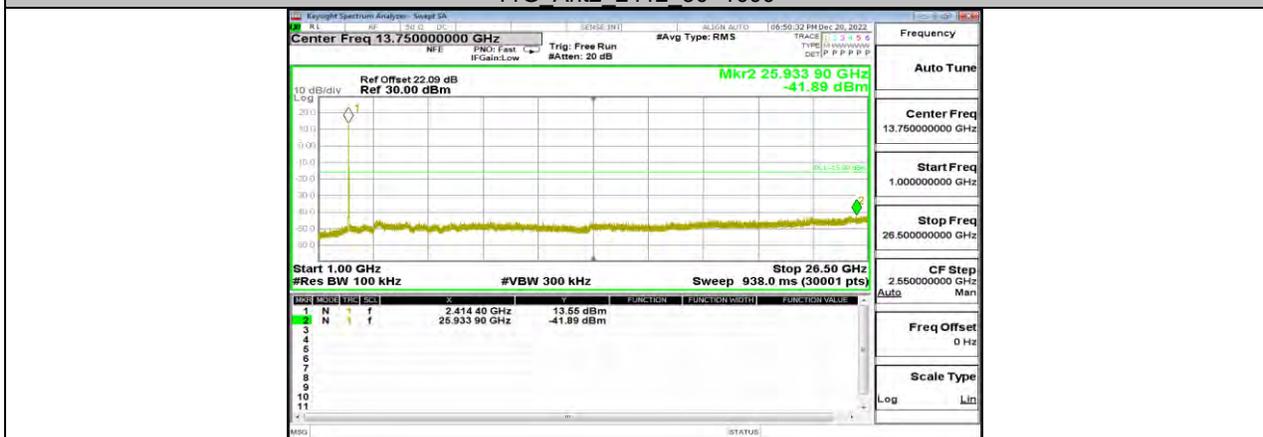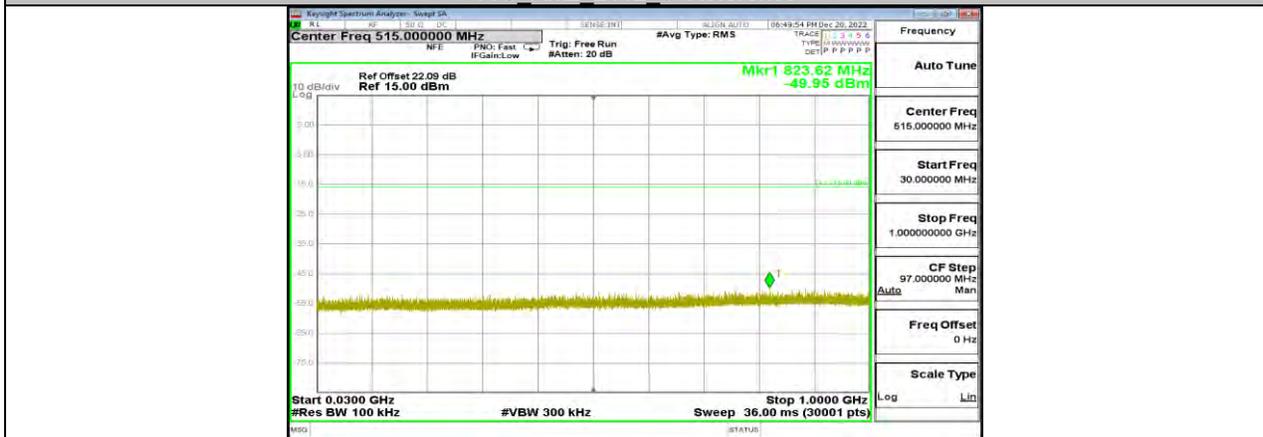
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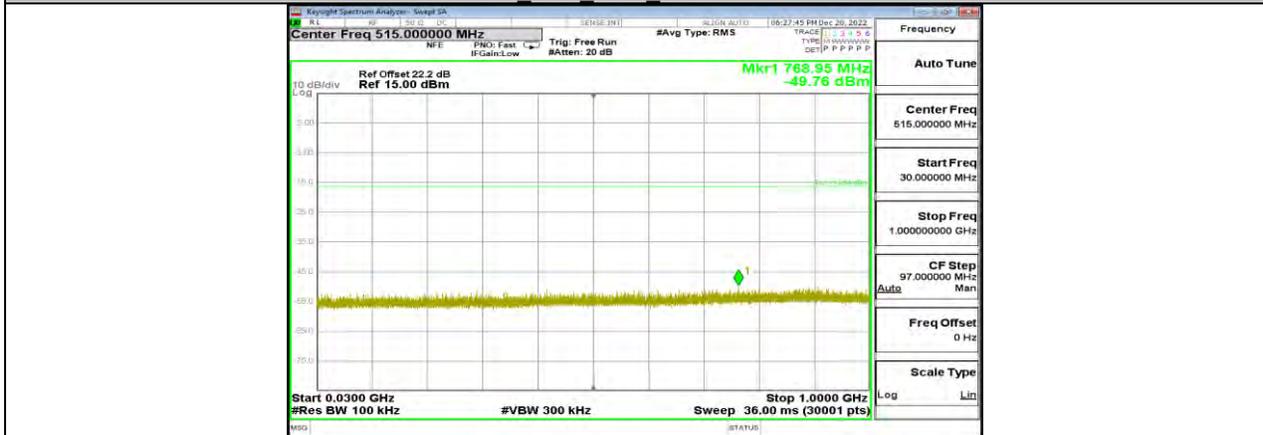
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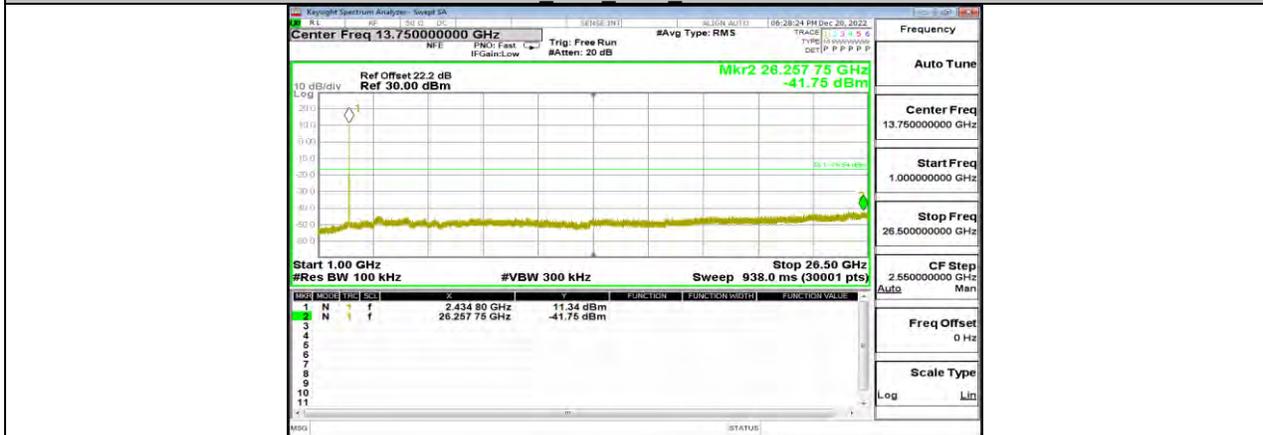
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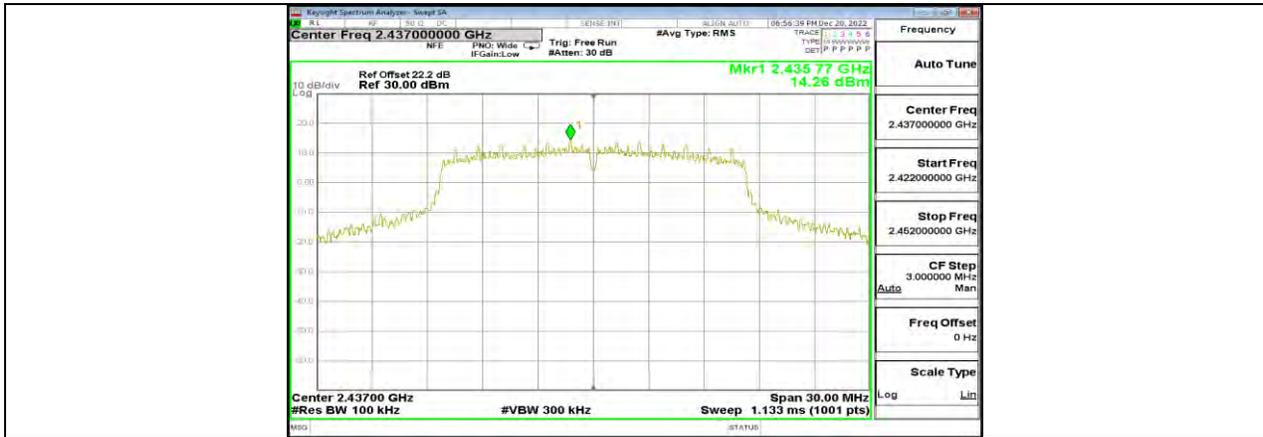
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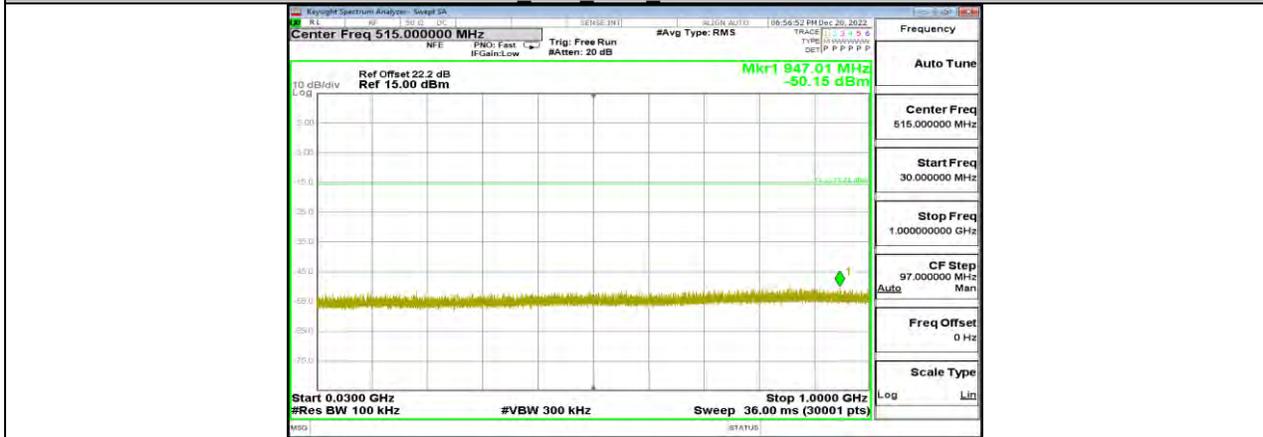
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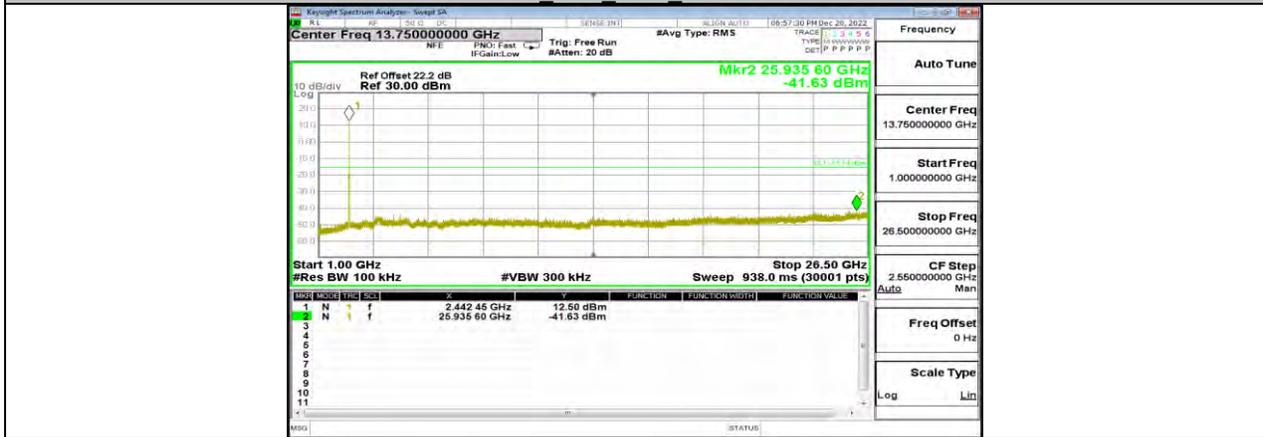
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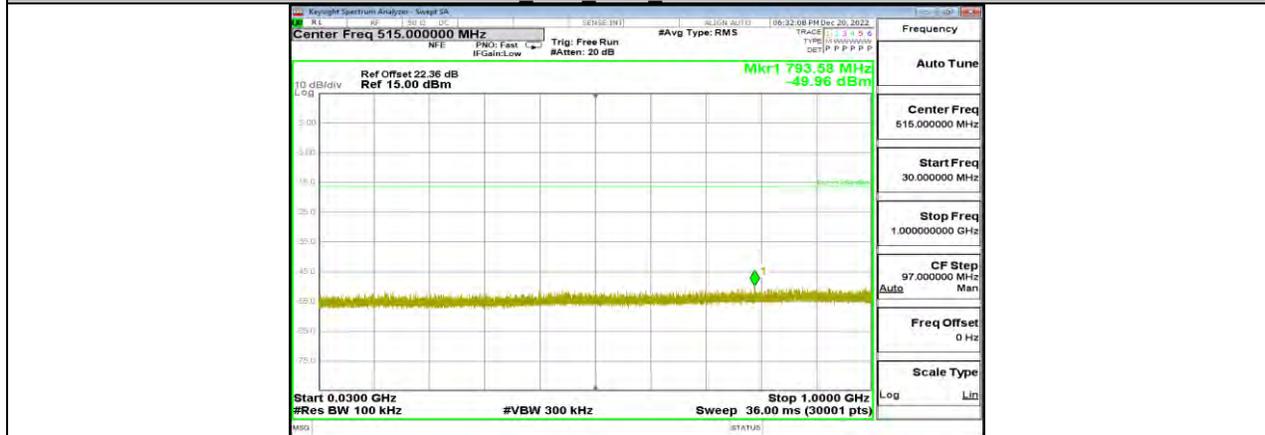
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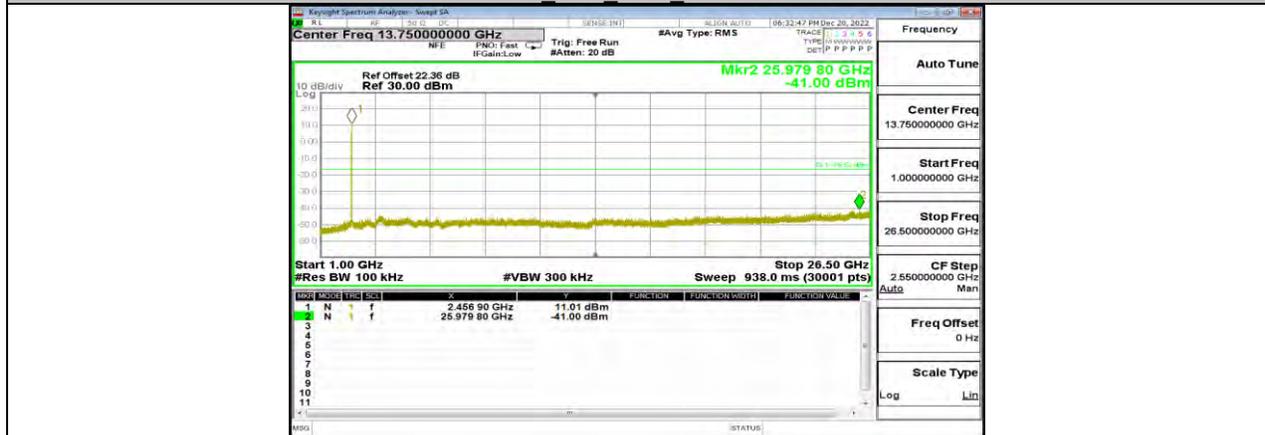
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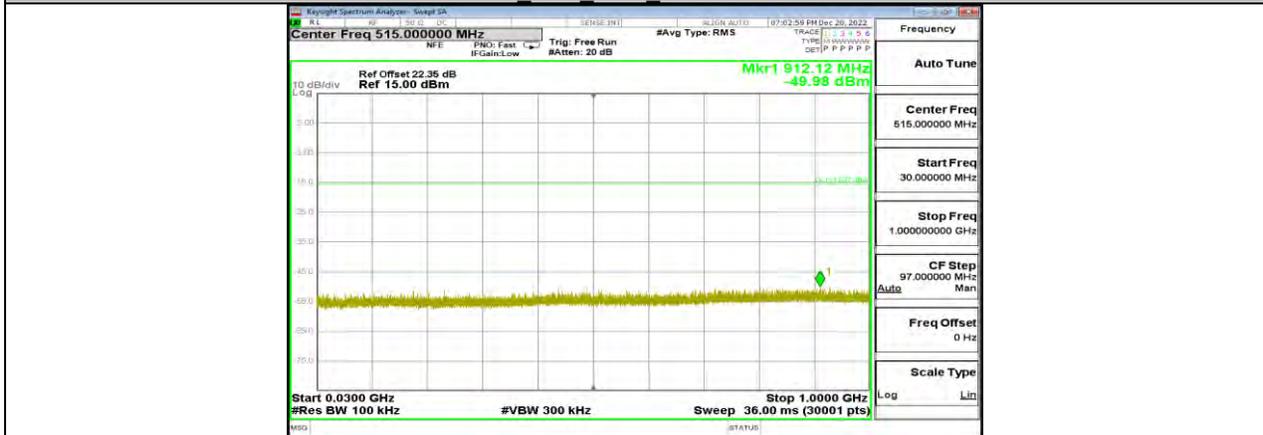
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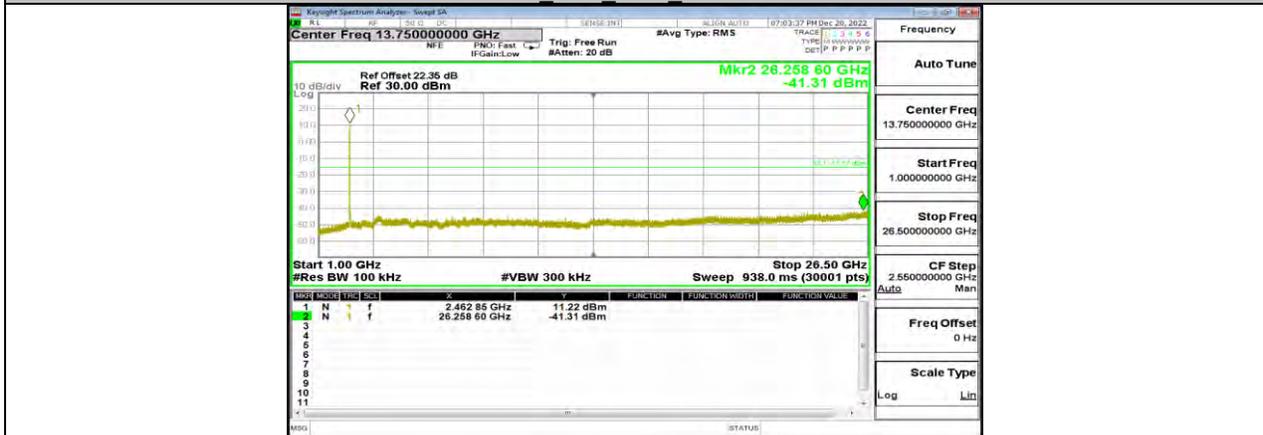
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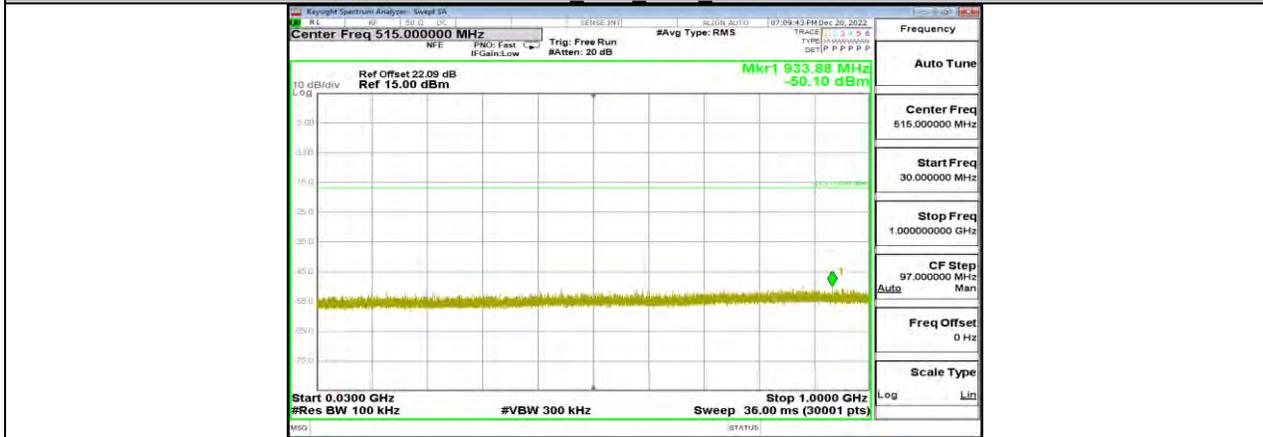
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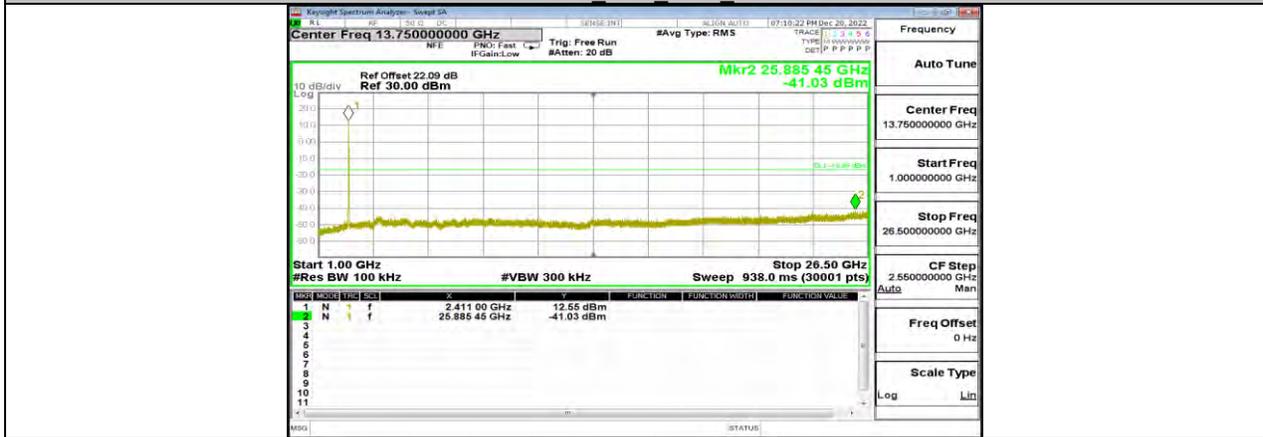
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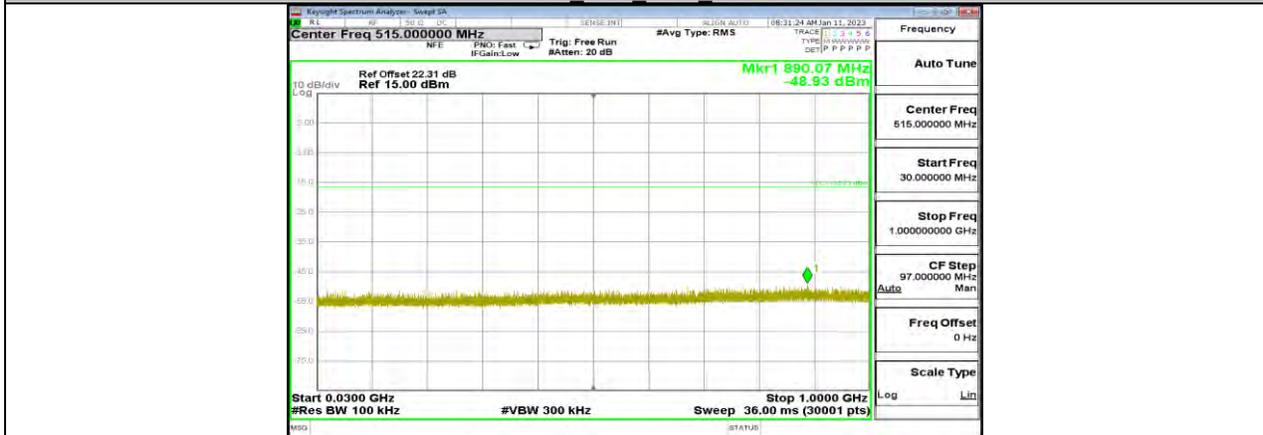11AX20MIMO_Ant2_2412_0~Reference
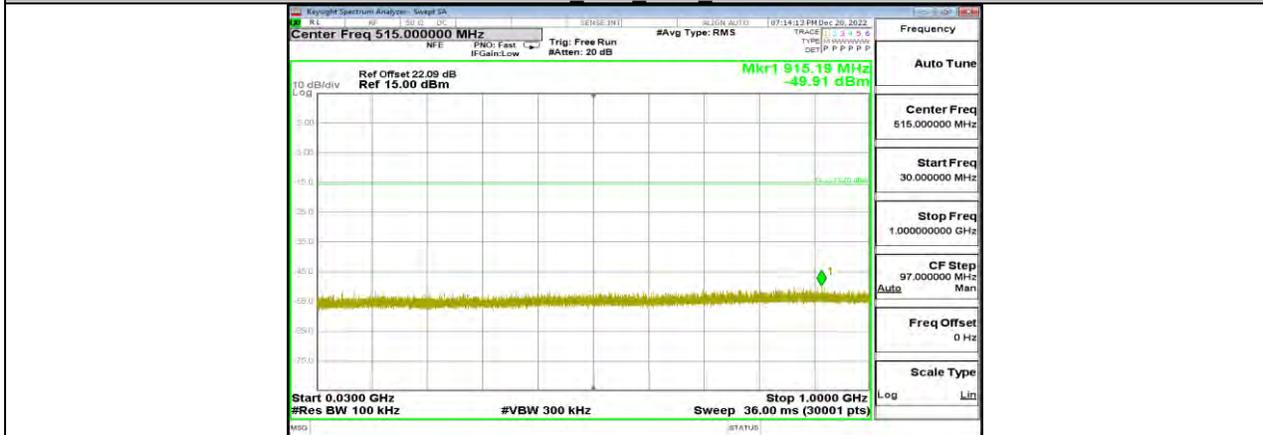
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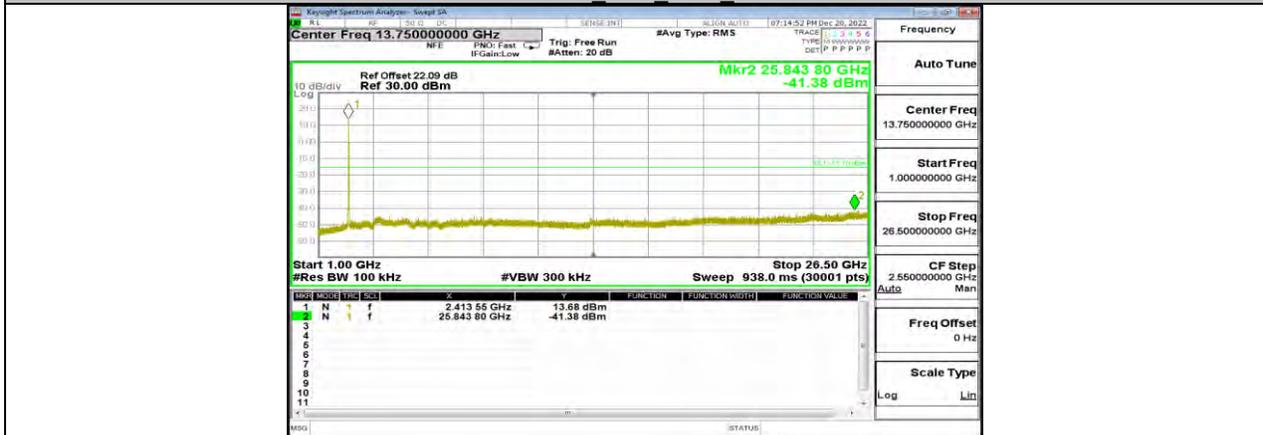
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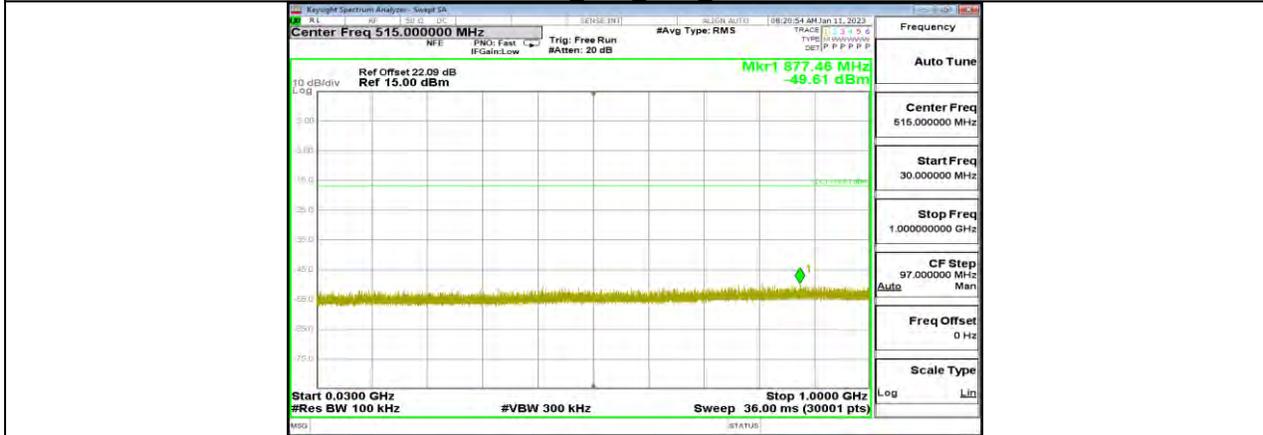
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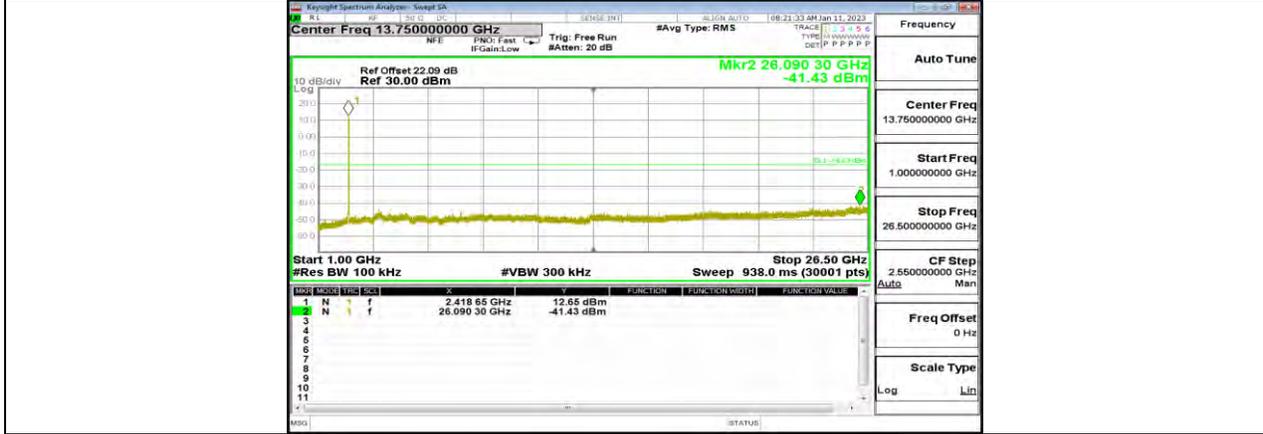
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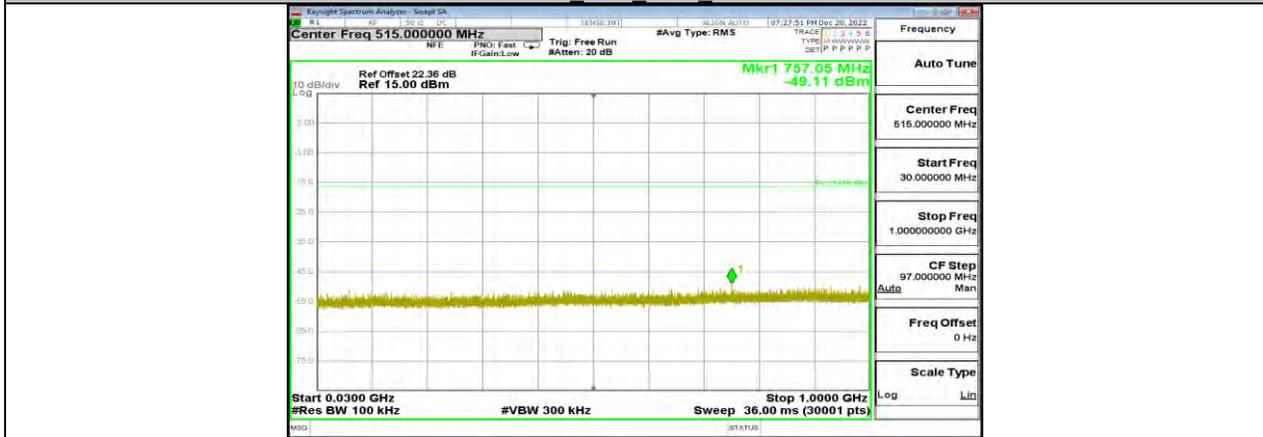
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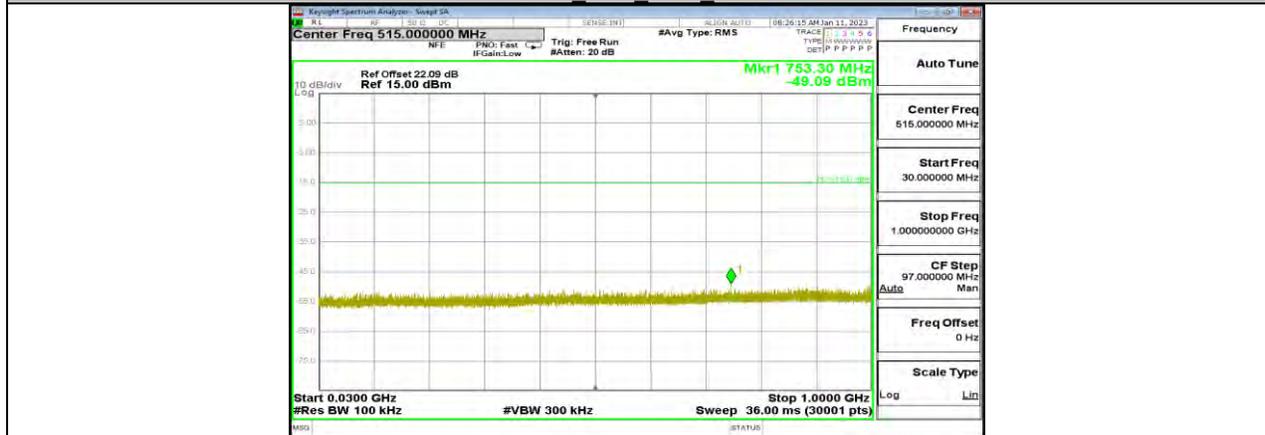
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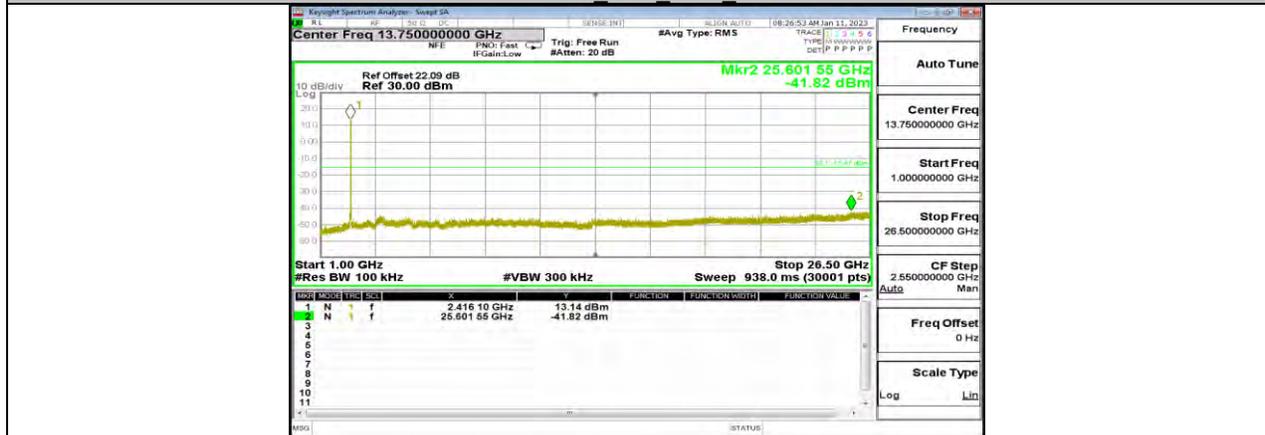
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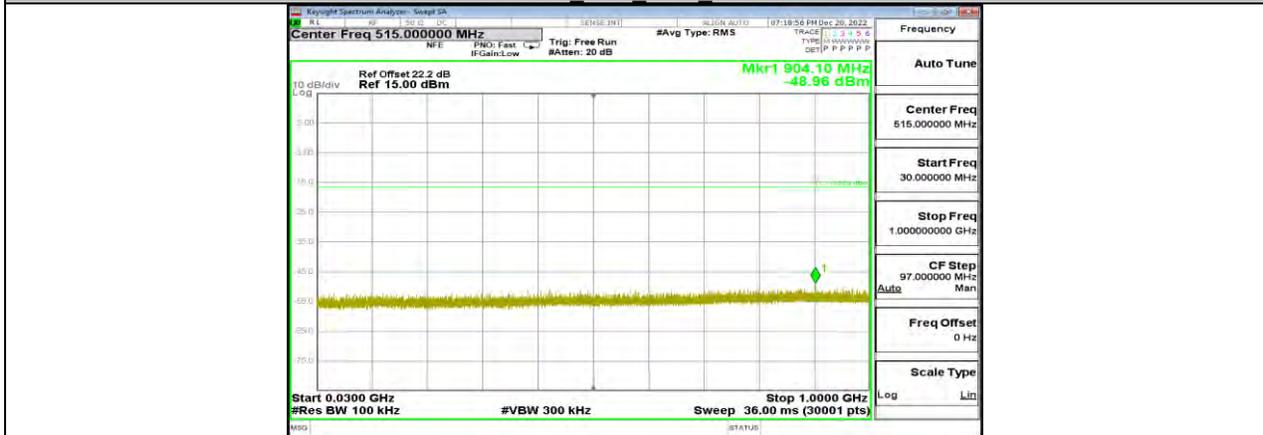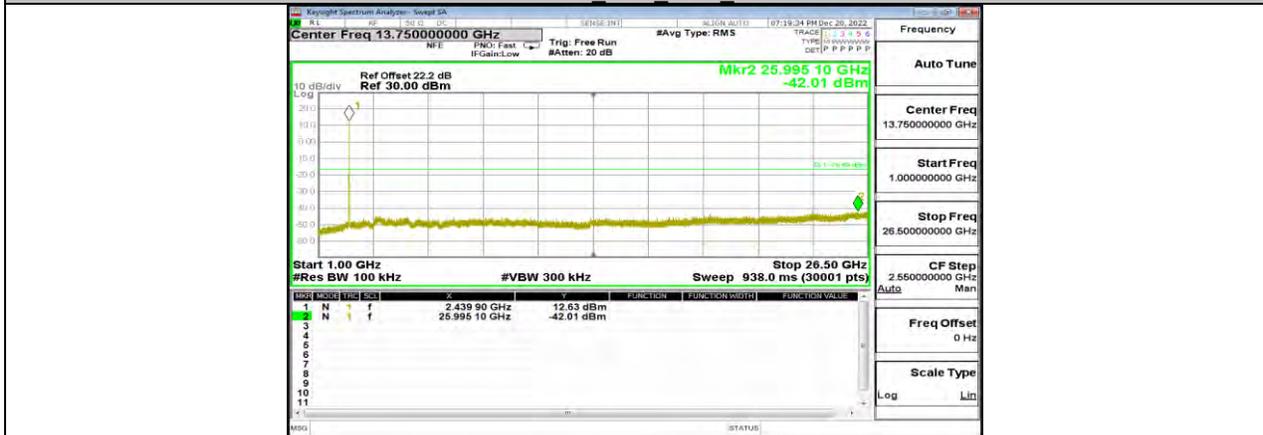
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11AX20MIMO_Ant2_2437_1000~26500

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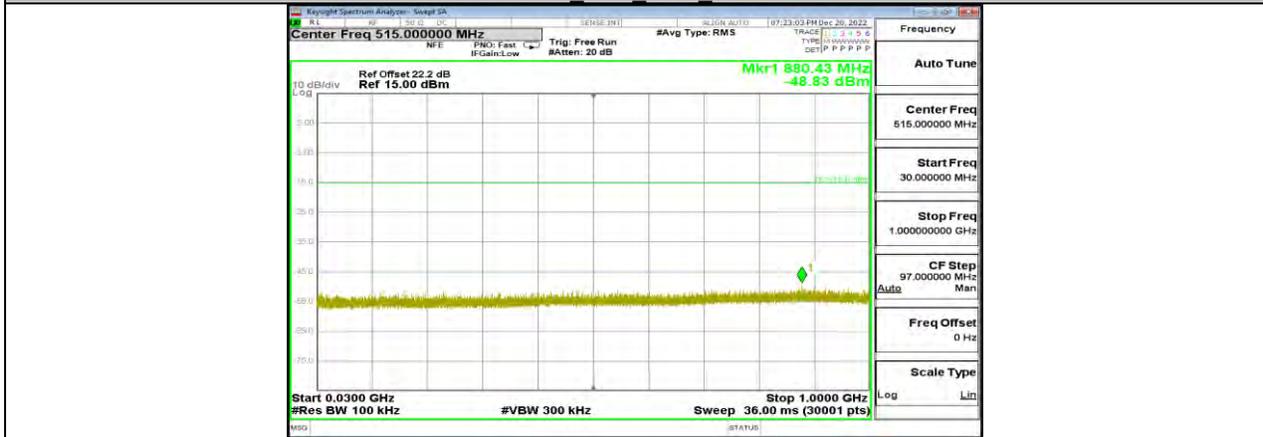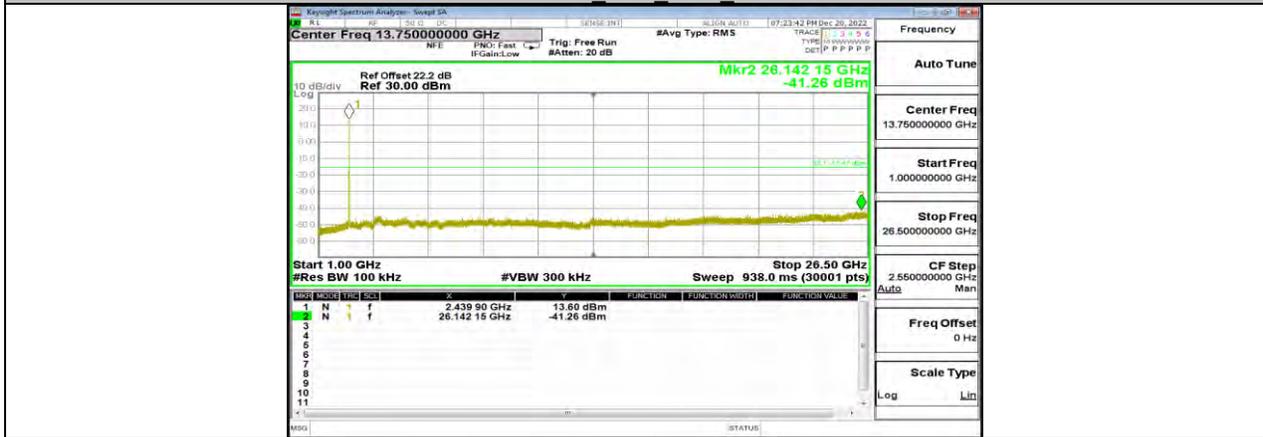
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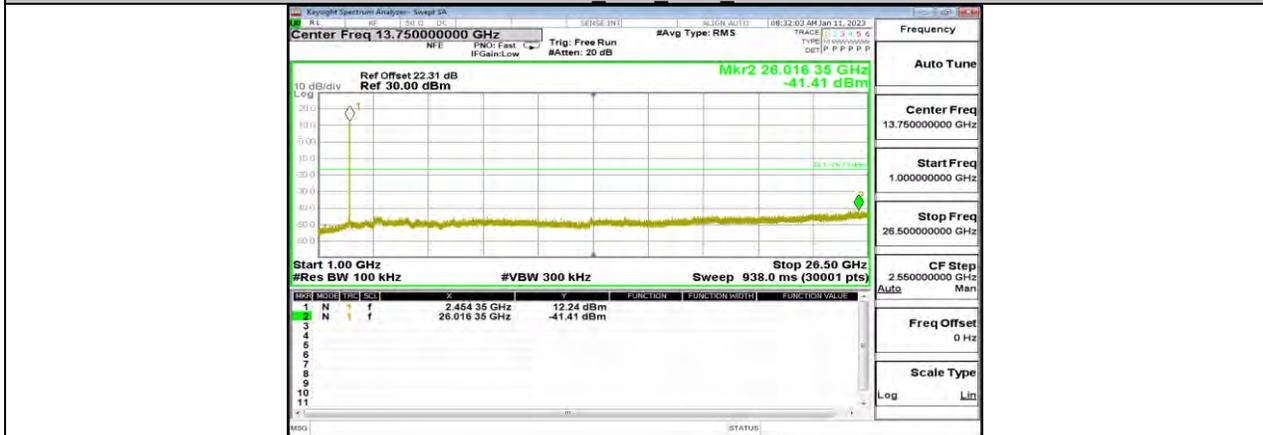
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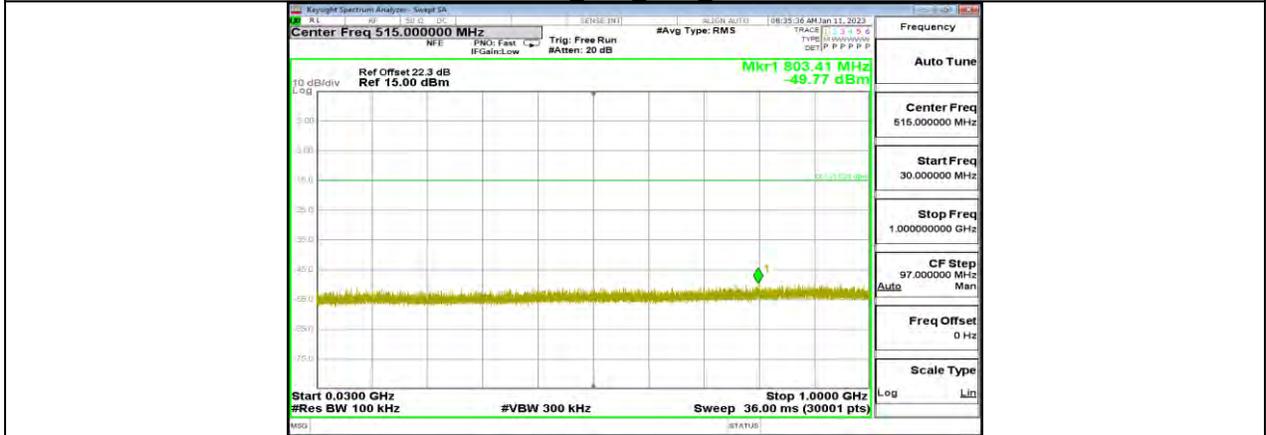
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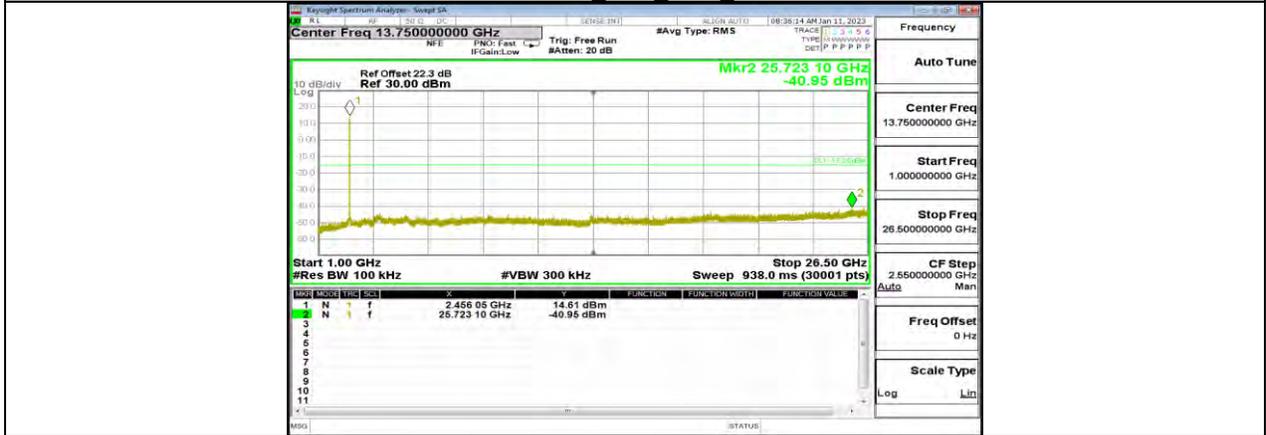
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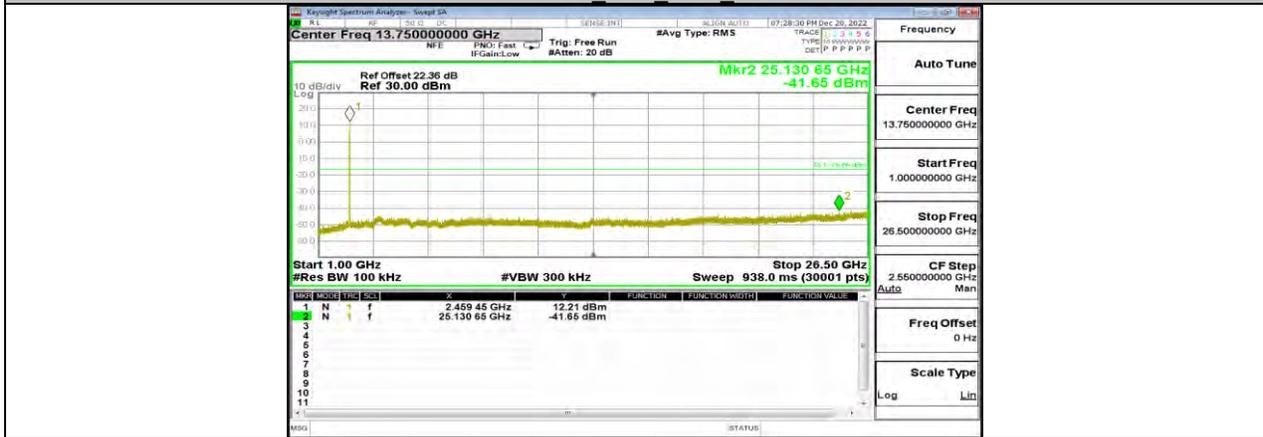
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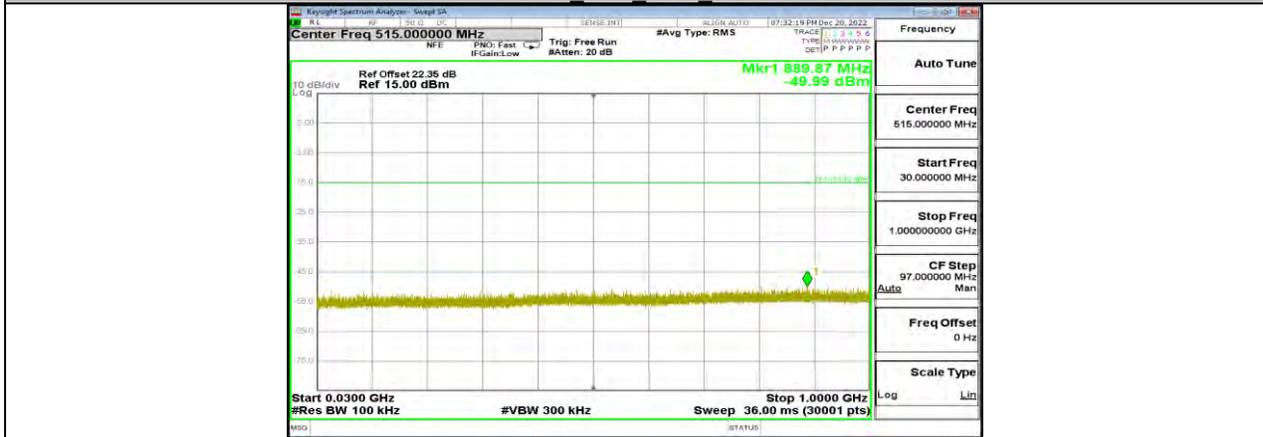
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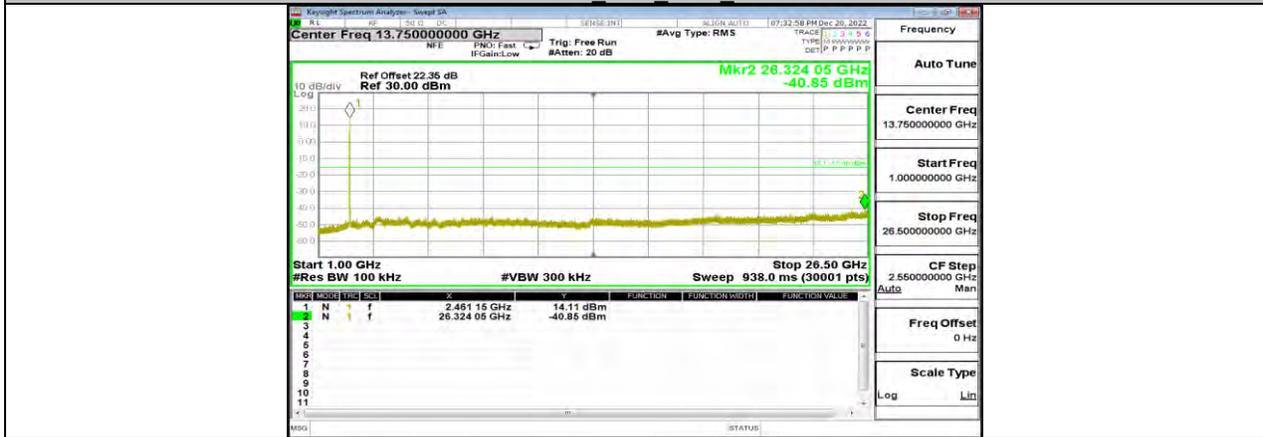
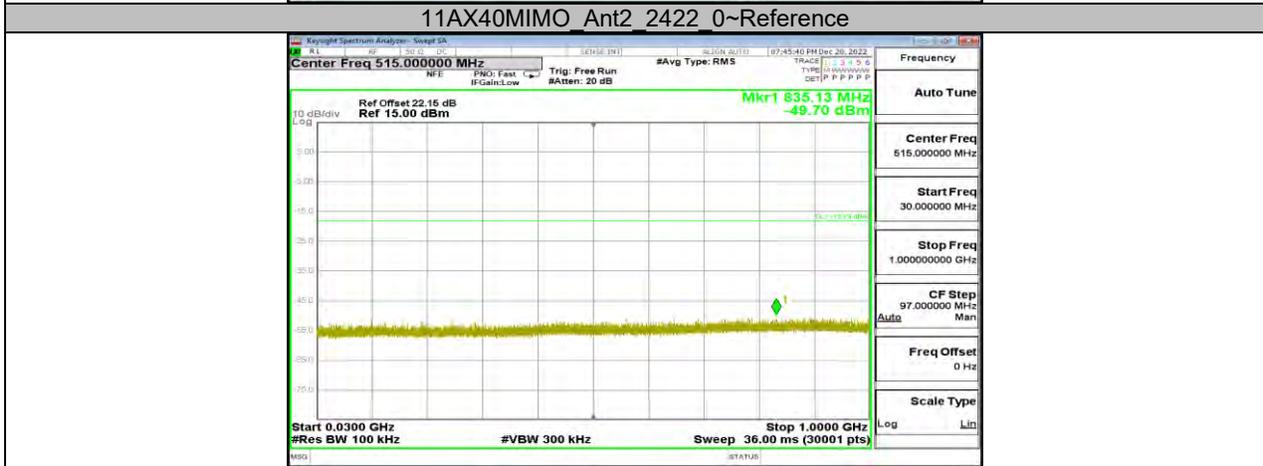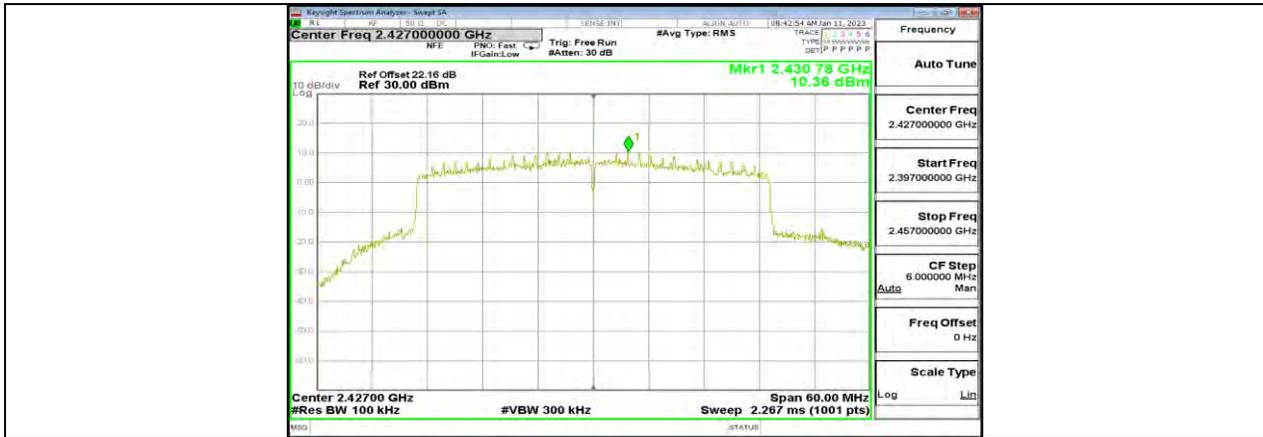11AX20MIMO_Ant2_2462_1000~26500
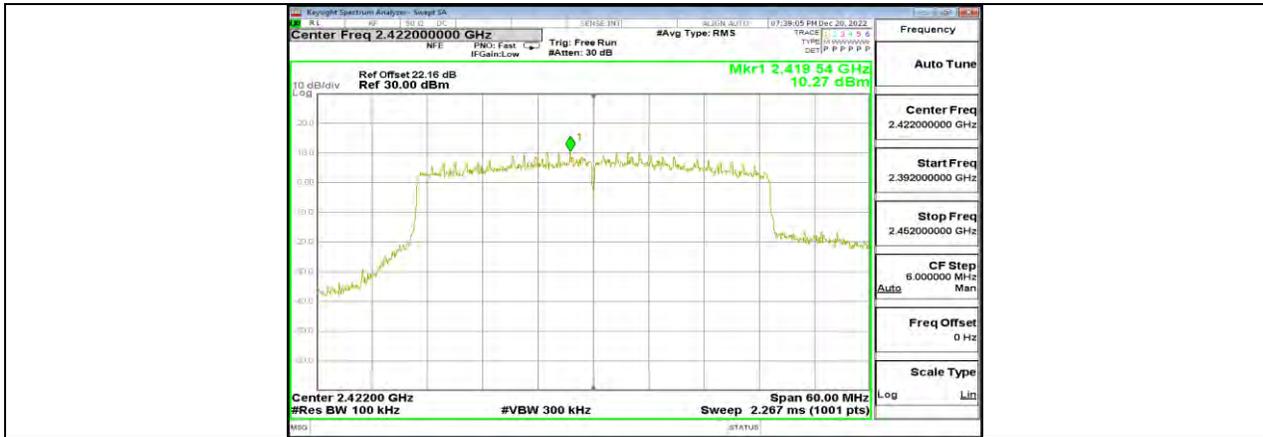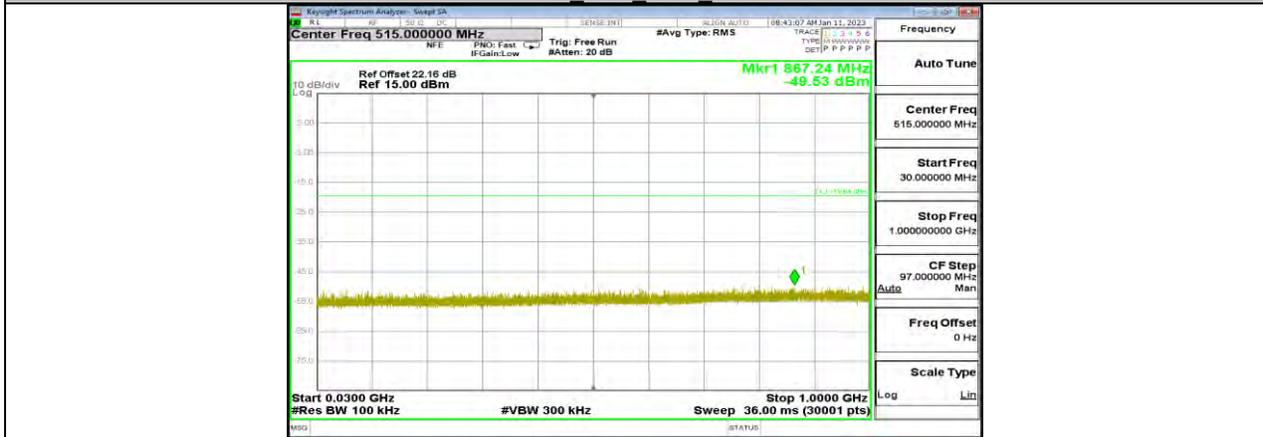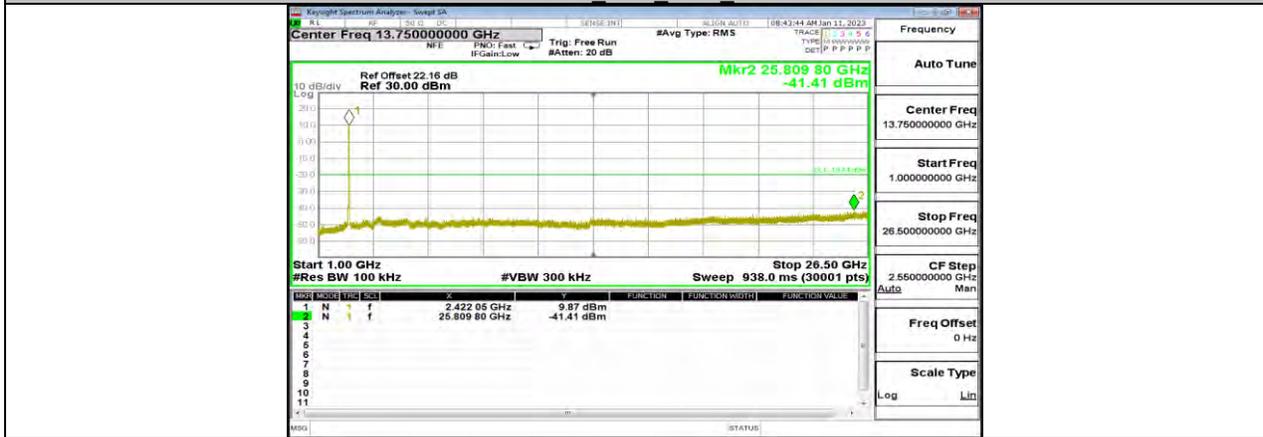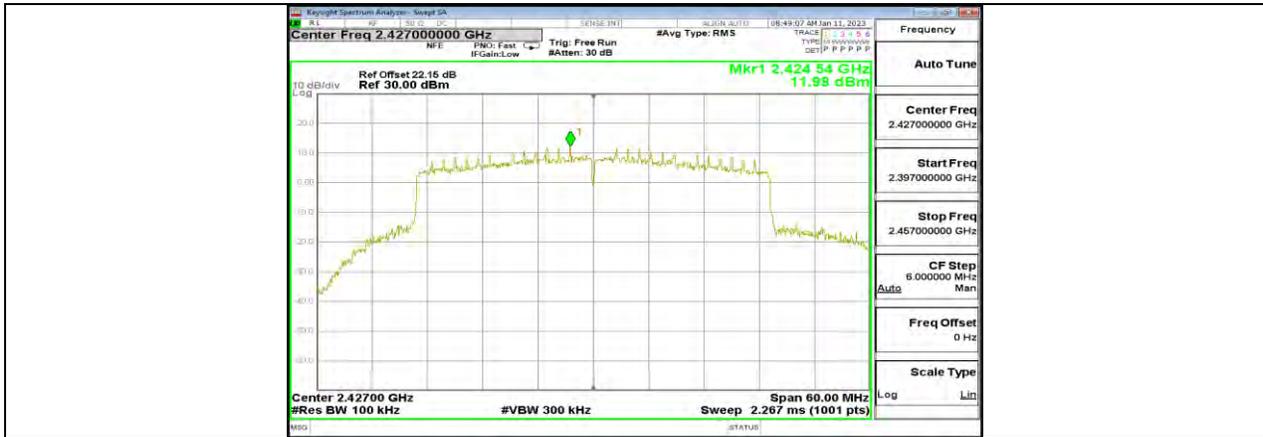
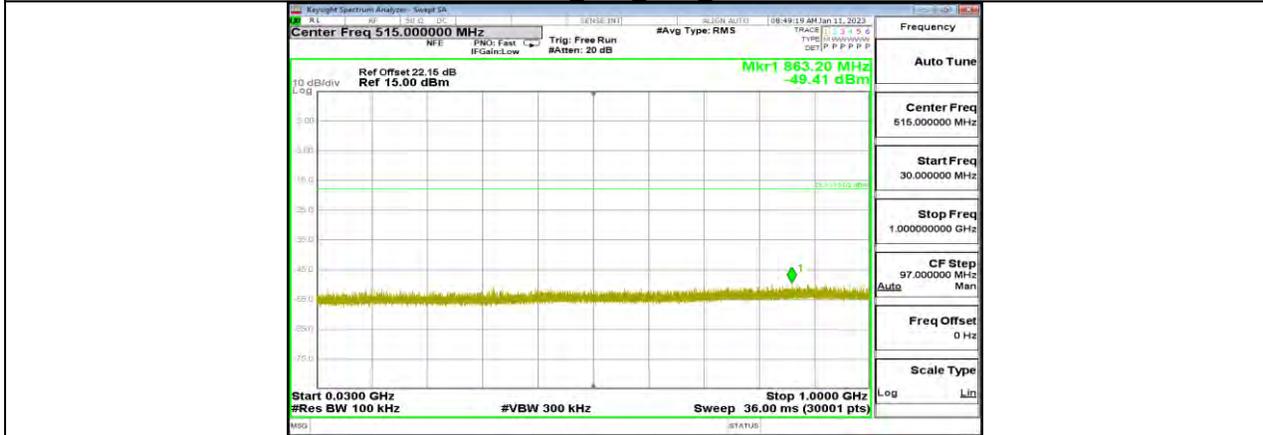11AX40MIMO_Ant1_2422_0~Reference
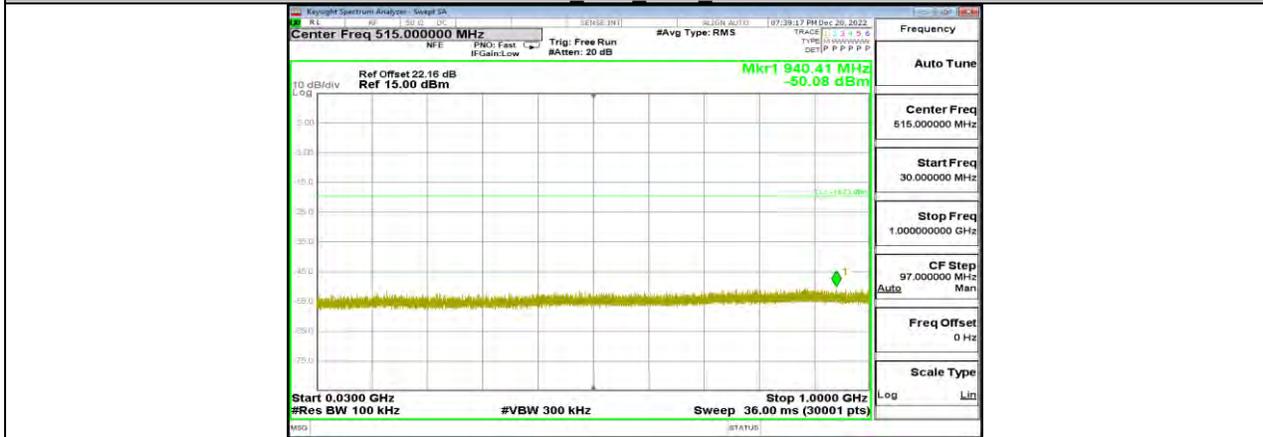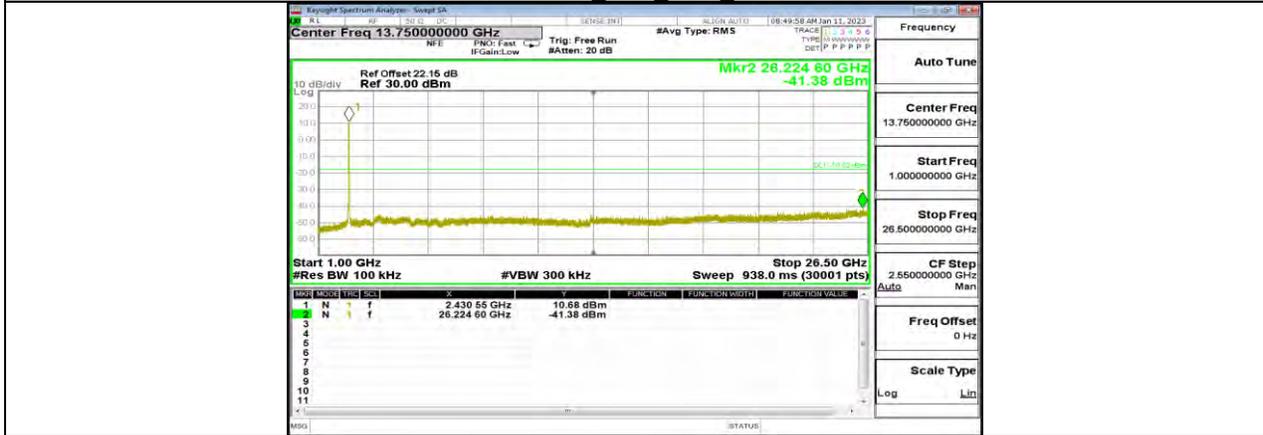

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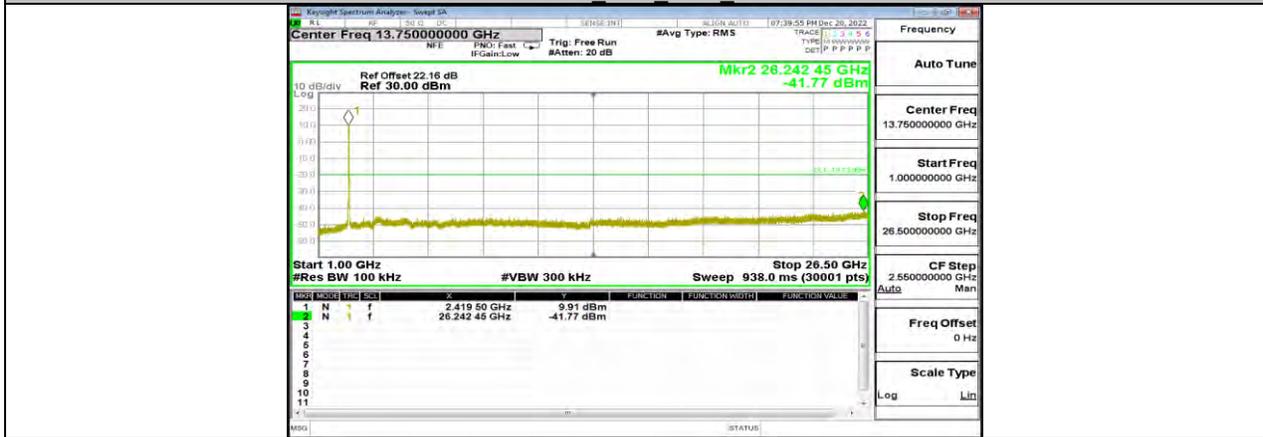
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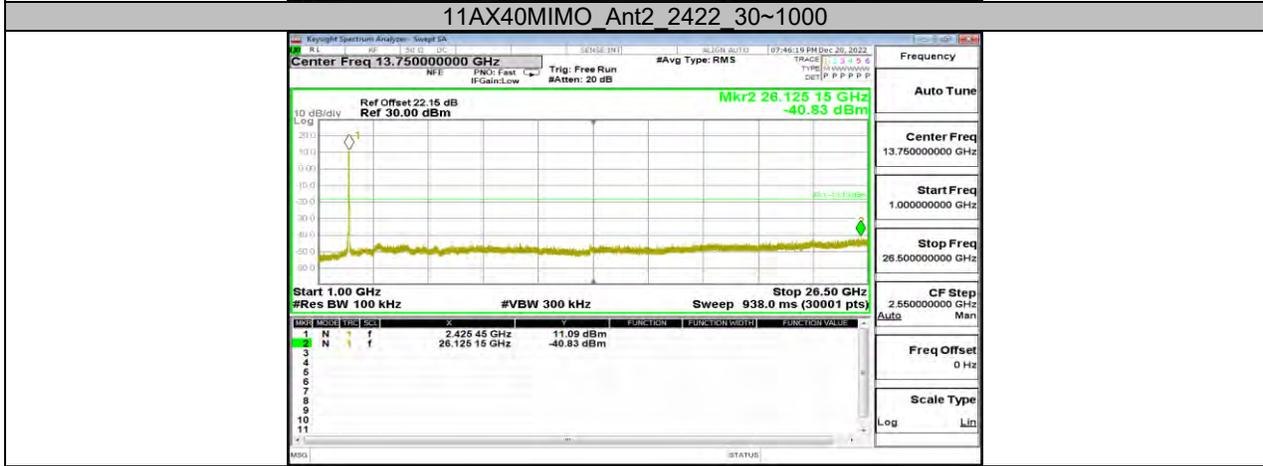
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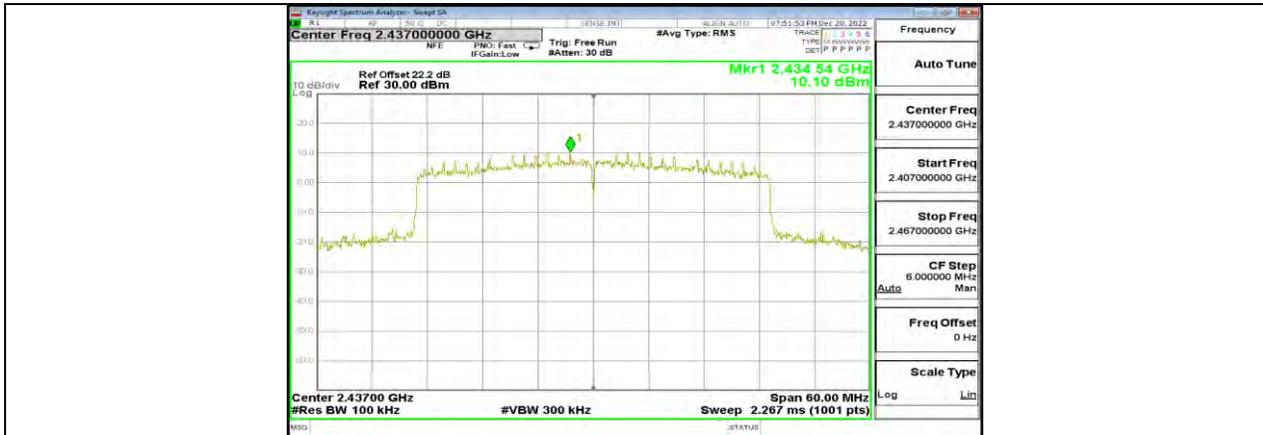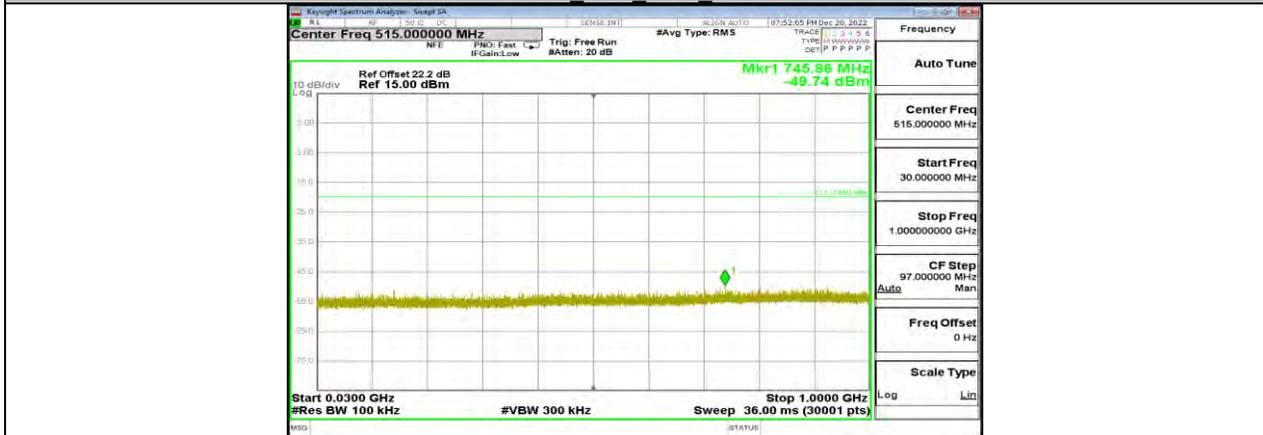
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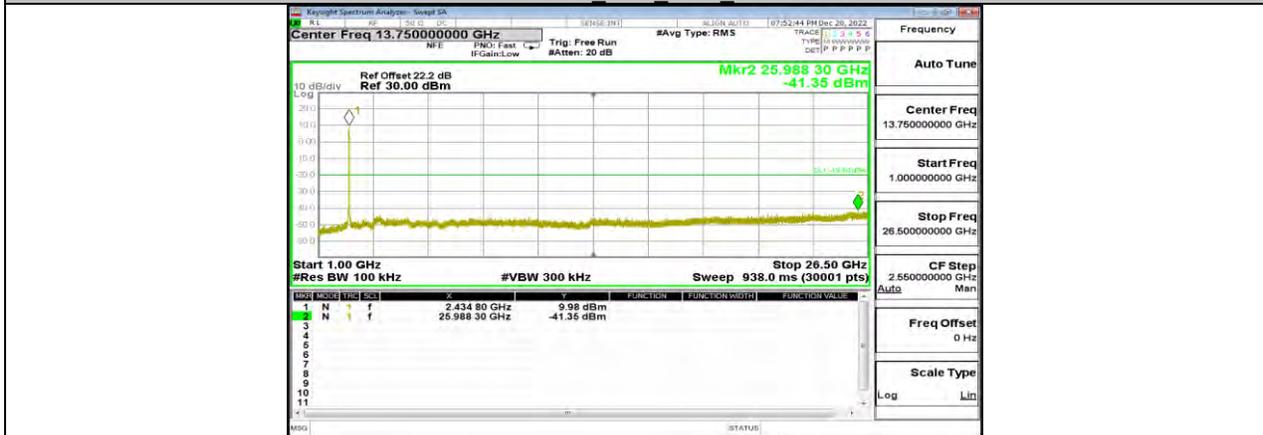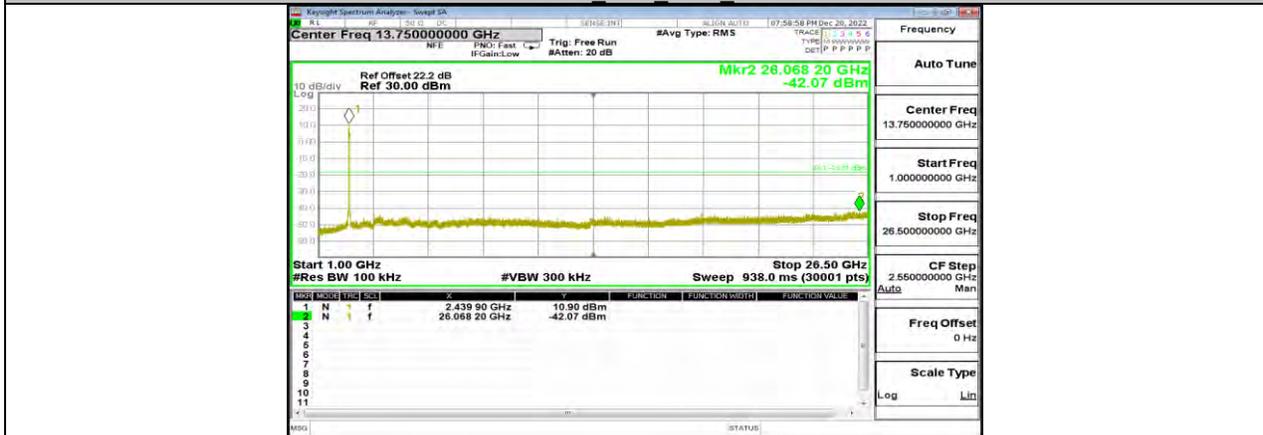

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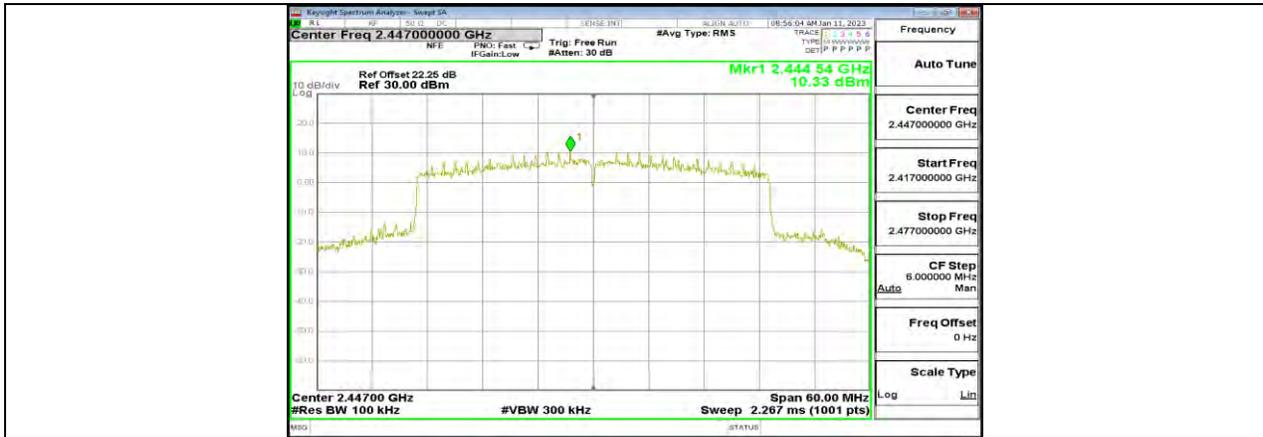
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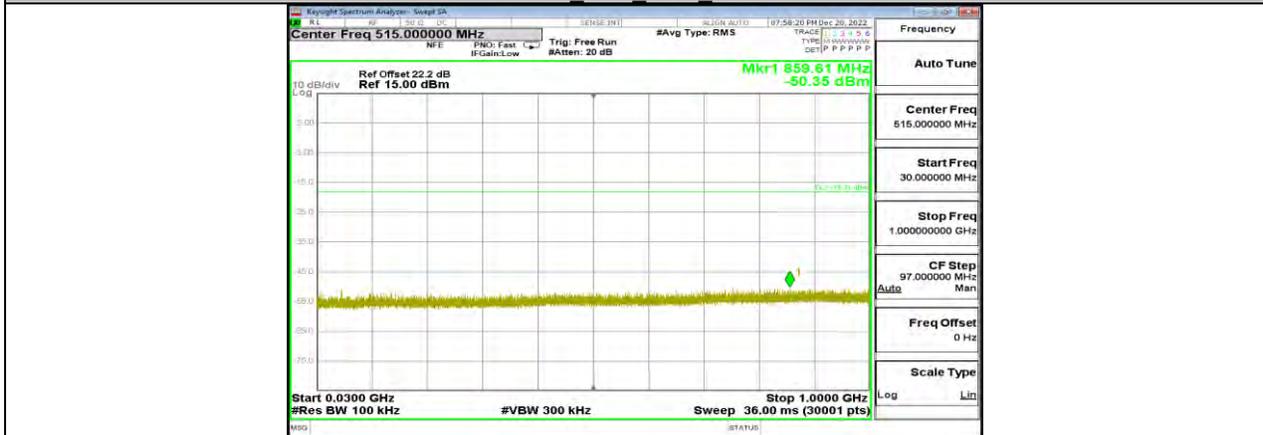
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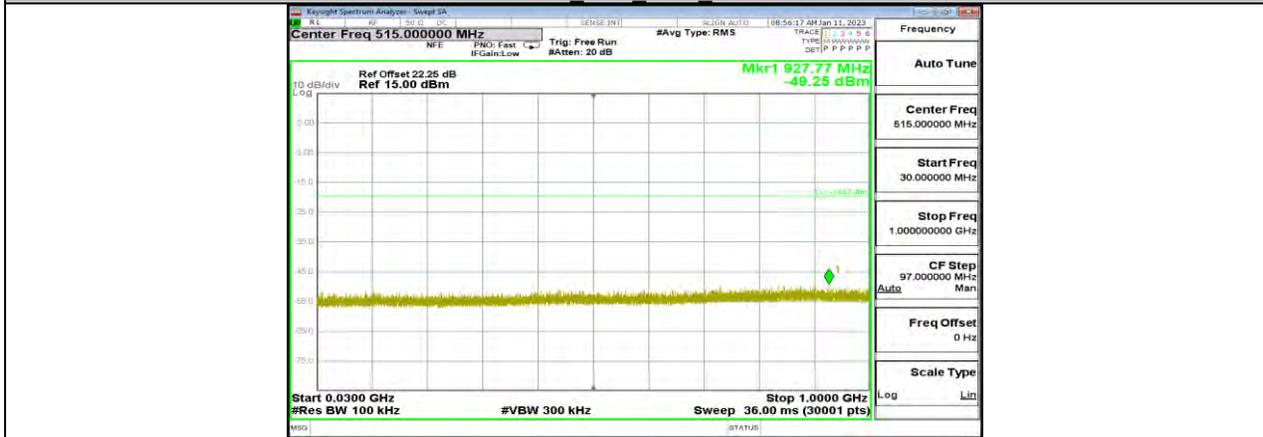
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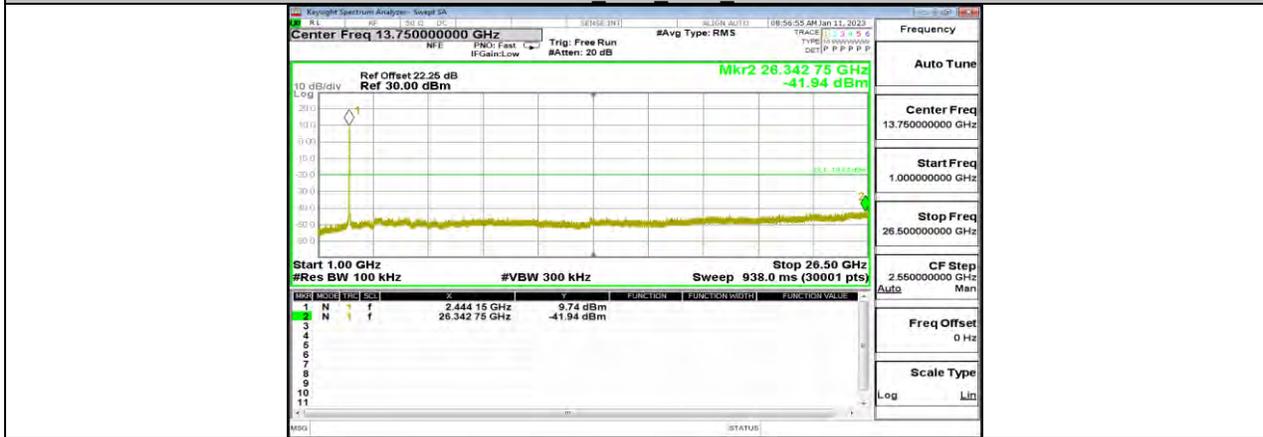
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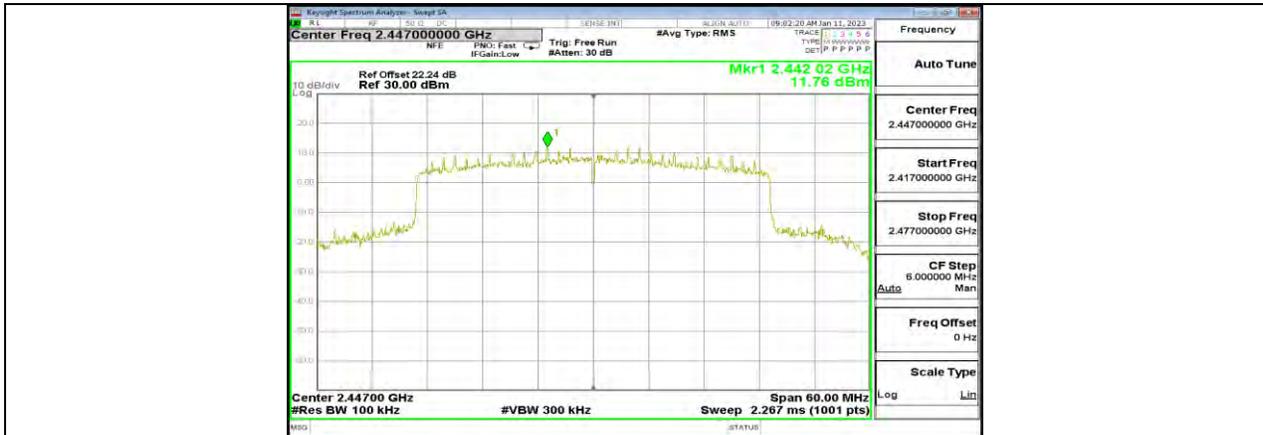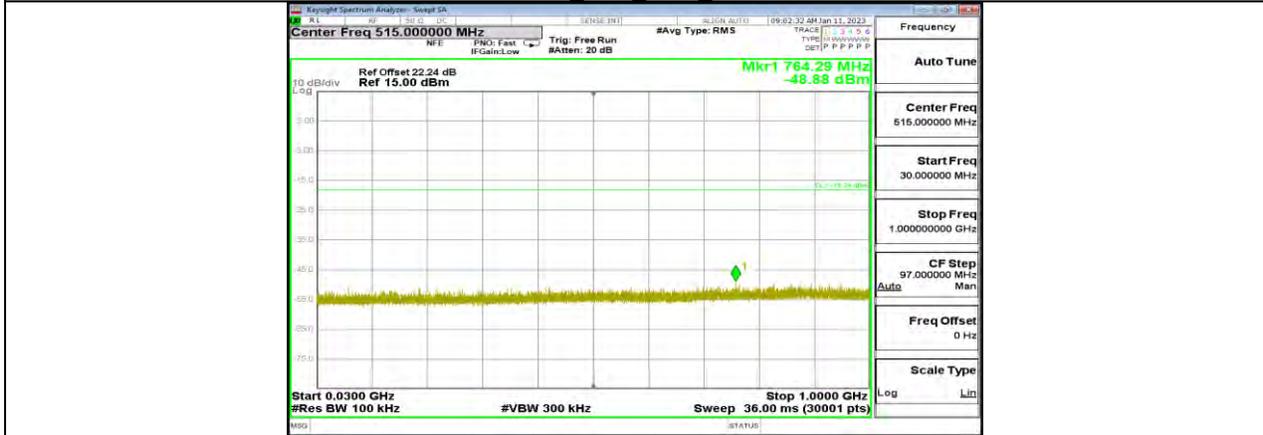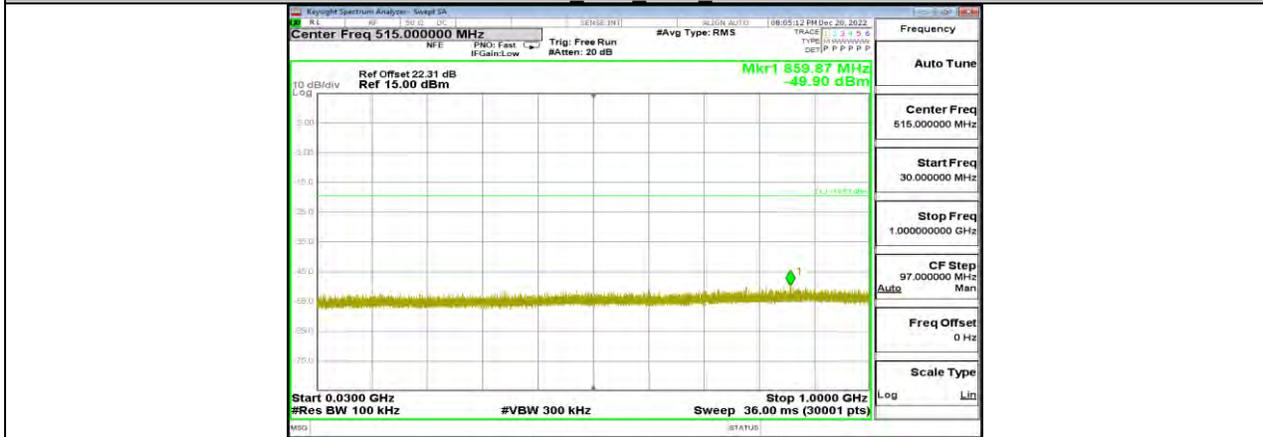
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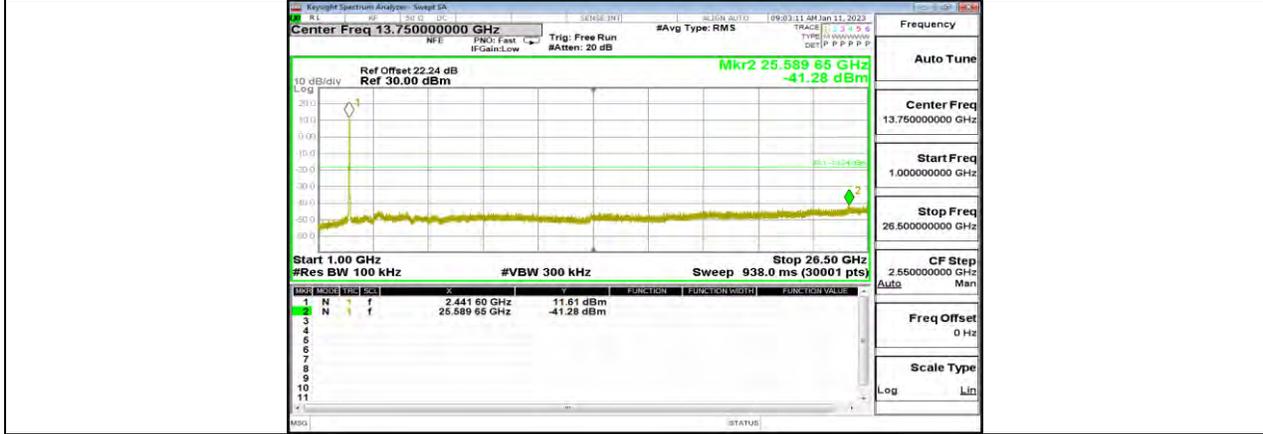
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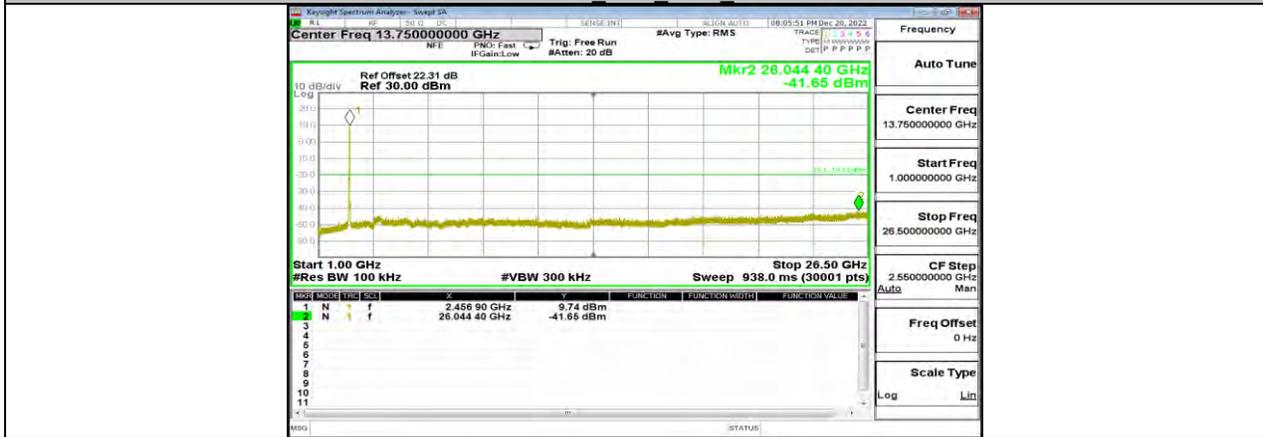
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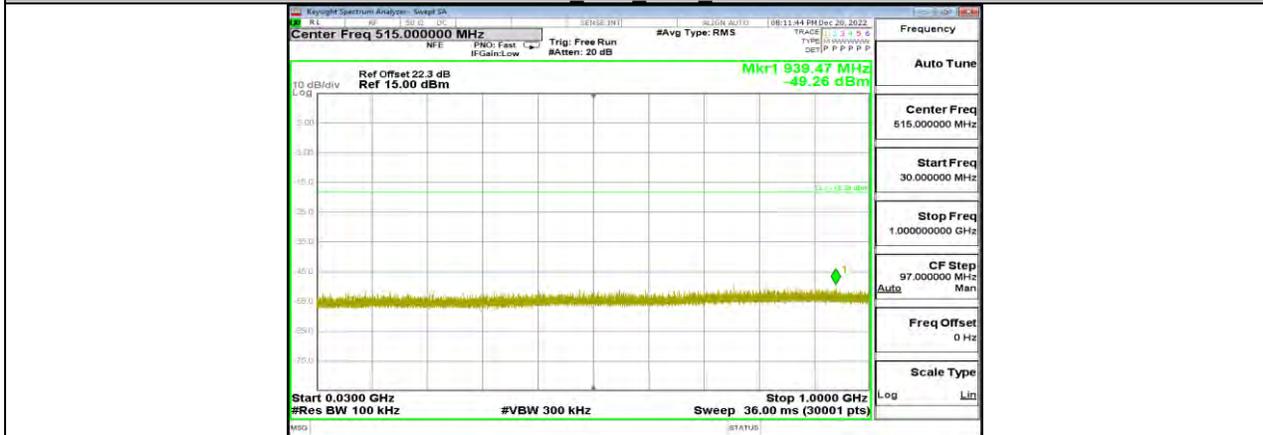
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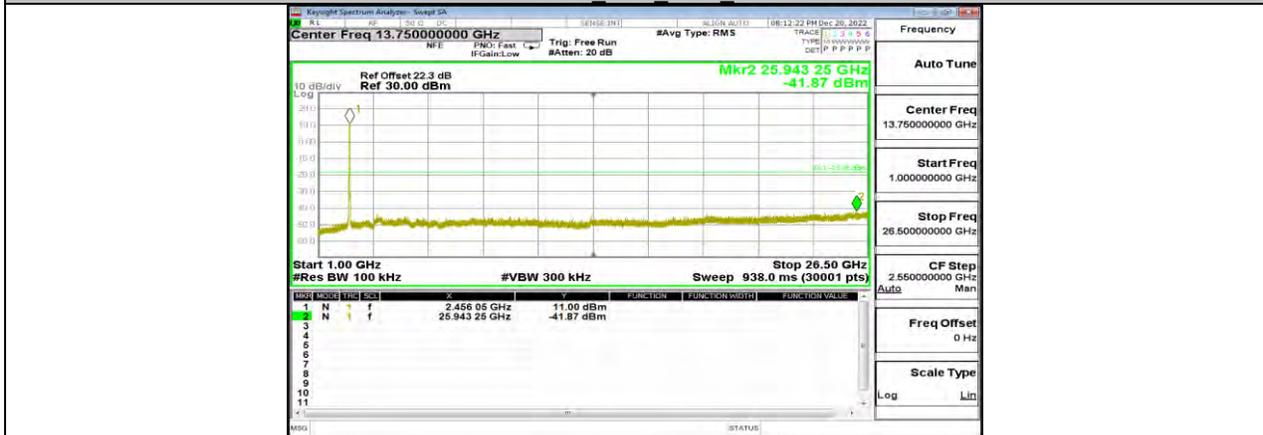
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11.7. APPENDIX G: DUTY CYCLE
11.7.1. Test Result

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)
802.11b	8.42	8.47	0.9941	99.41	0.03	0.12	0.01
802.11g	1.39	1.45	0.9586	95.86	0.18	0.72	1
802.11ax HE20	0.2	0.26	0.7692	76.92	1.14	5.00	6
802.11ax HE40	0.2	0.26	0.7692	76.92	1.14	5.00	6

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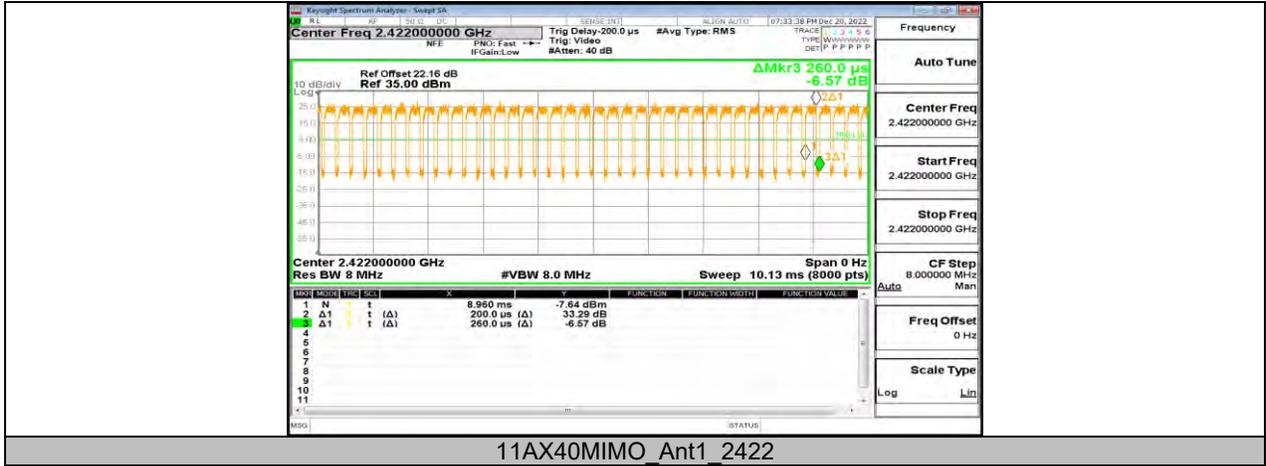Duty Cycle Correction Factor=10log (1/x).
Where: x is Duty Cycle (Linear)
Where: T is On Time
If that calculated VBW is not available on the analyzer then the next higher value should be used.

11.7.2.   Test Graphs

11B_Ant1_2412

11G_Ant1_2412

11AX20MIMO_Ant1_2412

11AX40MIMO_Ant1_2422

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