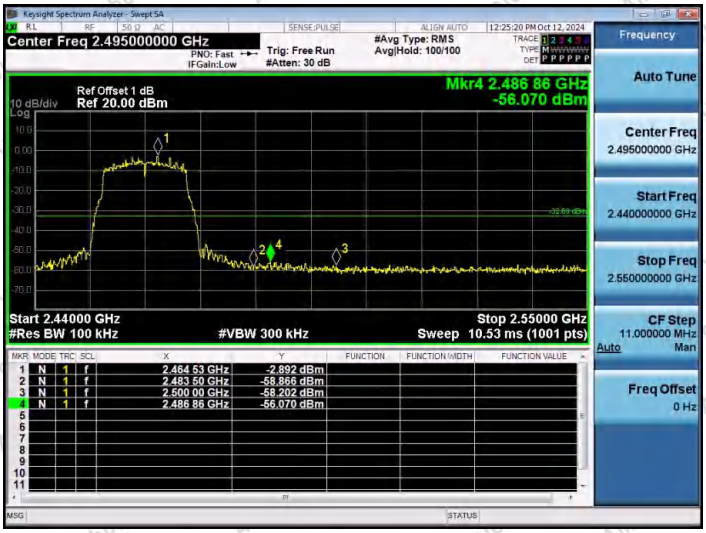
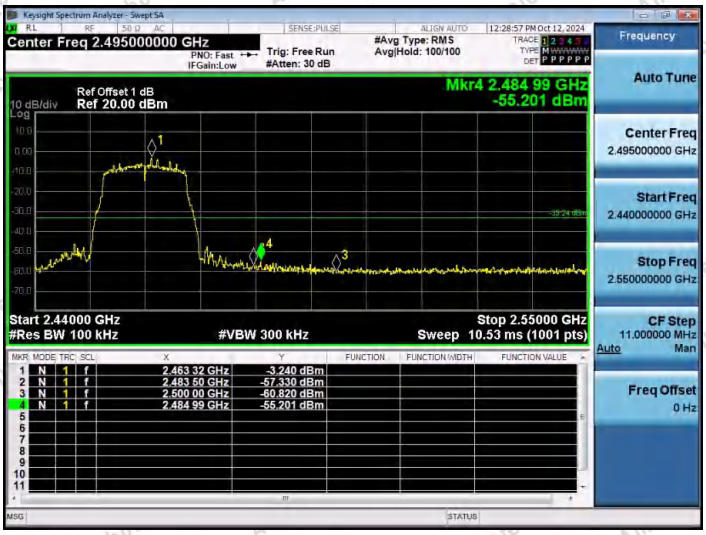


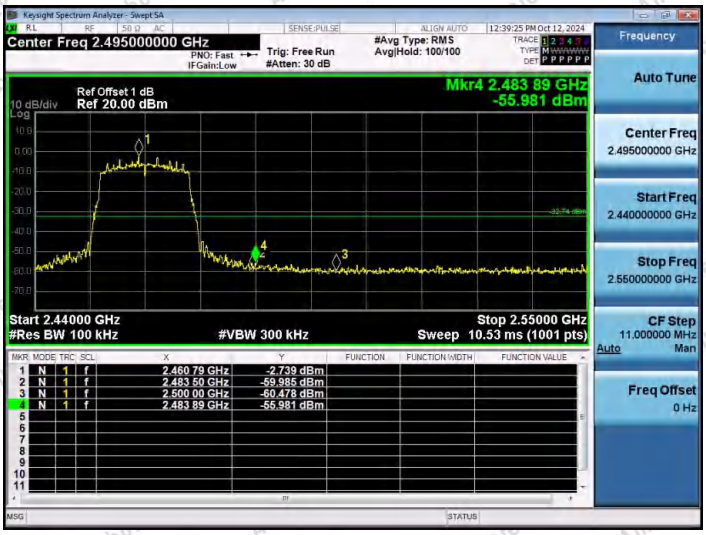
11G-Ant1-2462-PASS



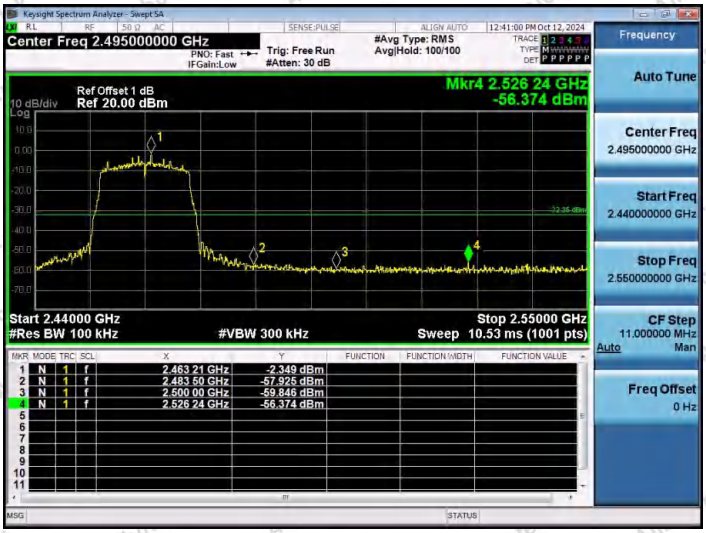
11G-Ant2-2462-PASS

11N20MIMO-Ant1-2412-PASS

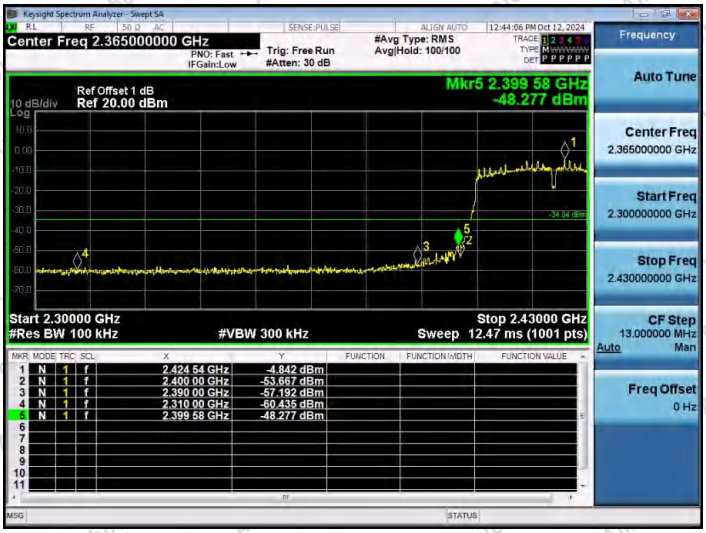
11N20MIMO-Ant2-2412-PASS



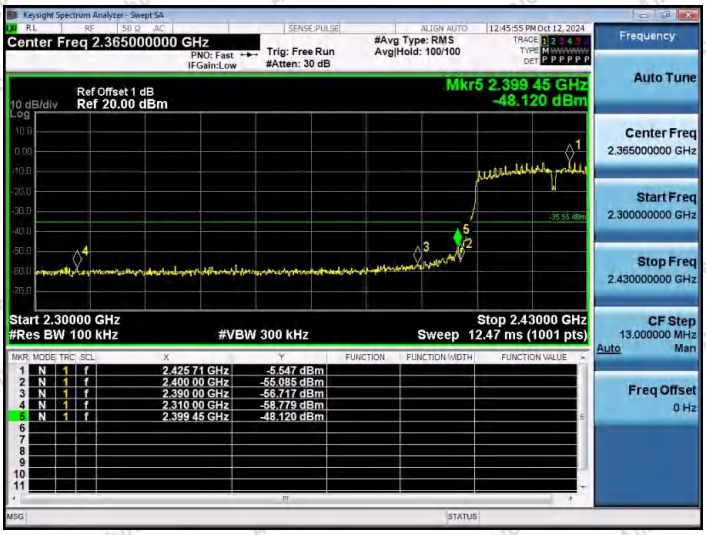
11N20MIMO-Ant1-2462-PASS



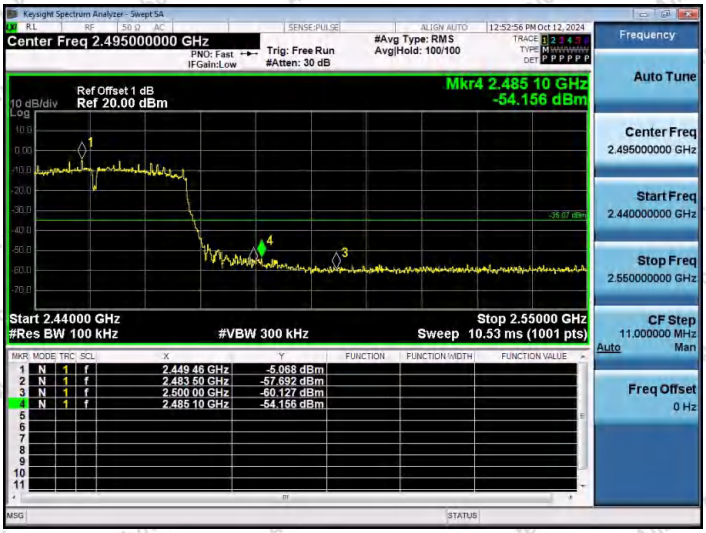
11N20MIMO-Ant2-2462-PASS



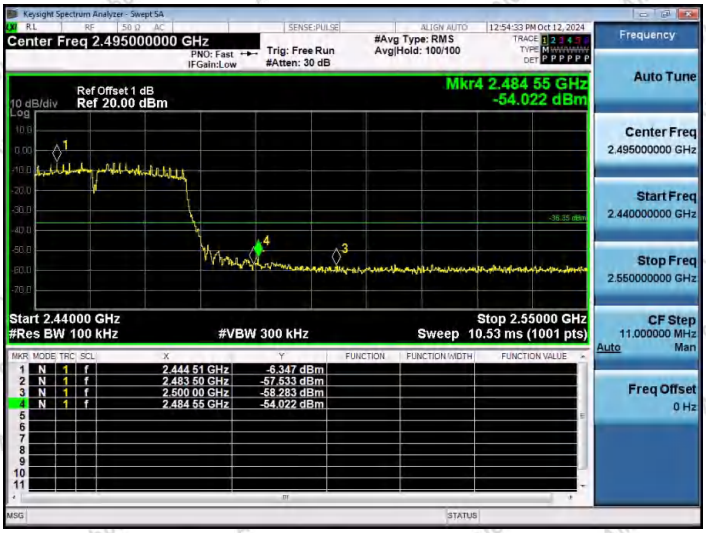
11N40MIMO-Ant1-2422-PASS



11N40MIMO-Ant2-2422-PASS



11N40MIMO-Ant1-2452-PASS



11N40MIMO-Ant2-2452-PASS

Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	0~Reference	2.10	2.10	---	PASS
11B	Ant2	2412	0~Reference	2.26	2.26	---	PASS
11B	Ant1	2412	30~1000	2.10	-68.54	≤-27.9	PASS
11B	Ant2	2412	30~1000	2.26	-68.56	≤-27.74	PASS
11B	Ant1	2412	1000~26500	2.10	-52.43	≤-27.9	PASS
11B	Ant2	2412	1000~26500	2.26	-53.38	≤-27.74	PASS
11B	Ant1	2437	0~Reference	2.34	2.34	---	PASS
11B	Ant2	2437	0~Reference	1.45	1.45	---	PASS
11B	Ant1	2437	30~1000	2.34	-68.33	≤-27.66	PASS
11B	Ant2	2437	30~1000	1.45	-68.3	≤-28.55	PASS
11B	Ant1	2437	1000~26500	2.34	-53.44	≤-27.66	PASS
11B	Ant2	2437	1000~26500	1.45	-53.83	≤-28.55	PASS
11B	Ant1	2462	0~Reference	1.43	1.43	---	PASS
11B	Ant2	2462	0~Reference	0.47	0.47	---	PASS
11B	Ant1	2462	30~1000	1.43	-68.77	≤-28.57	PASS
11B	Ant2	2462	30~1000	0.47	-69.34	≤-29.53	PASS
11B	Ant1	2462	1000~26500	1.43	-53.55	≤-28.57	PASS
11B	Ant2	2462	1000~26500	0.47	-53.62	≤-29.53	PASS
11G	Ant1	2412	0~Reference	-3.44	-3.44	---	PASS
11G	Ant2	2412	0~Reference	-6.64	-6.64	---	PASS
11G	Ant1	2412	30~1000	-3.44	-68.83	≤-33.44	PASS
11G	Ant2	2412	30~1000	-6.64	-68.62	≤-36.64	PASS
11G	Ant1	2412	1000~26500	-3.44	-53.43	≤-33.44	PASS
11G	Ant2	2412	1000~26500	-6.64	-53.75	≤-36.64	PASS
11G	Ant1	2437	0~Reference	-5.39	-5.39	---	PASS
11G	Ant2	2437	0~Reference	-4.32	-4.32	---	PASS
11G	Ant1	2437	30~1000	-5.39	-68.67	≤-35.39	PASS
11G	Ant2	2437	30~1000	-4.32	-69.18	≤-34.32	PASS
11G	Ant1	2437	1000~26500	-5.39	-53.79	≤-35.39	PASS
11G	Ant2	2437	1000~26500	-4.32	-53.28	≤-34.32	PASS
11G	Ant1	2462	0~Reference	-6.00	-6.00	---	PASS
11G	Ant2	2462	0~Reference	-6.32	-6.32	---	PASS
11G	Ant1	2462	30~1000	-6.00	-68.61	≤-36	PASS
11G	Ant2	2462	30~1000	-6.32	-68.86	≤-36.32	PASS
11G	Ant1	2462	1000~26500	-6.00	-53.54	≤-36	PASS
11G	Ant2	2462	1000~26500	-6.32	-53.64	≤-36.32	PASS
11N20MIMO	Ant1	2412	0~Reference	-2.62	-2.62	---	PASS

11N20MIMO	Ant2	2412	0~Reference	-2.61	-2.61	---	PASS
11N20MIMO	Ant1	2412	30~1000	-2.62	-68.9	≤-32.62	PASS
11N20MIMO	Ant2	2412	30~1000	-2.61	-67.89	≤-32.61	PASS
11N20MIMO	Ant1	2412	1000~26500	-2.62	-53.8	≤-32.62	PASS
11N20MIMO	Ant2	2412	1000~26500	-2.61	-53.43	≤-32.61	PASS
11N20MIMO	Ant1	2437	0~Reference	-5.47	-5.47	---	PASS
11N20MIMO	Ant2	2437	0~Reference	-5.72	-5.72	---	PASS
11N20MIMO	Ant1	2437	30~1000	-5.47	-68.56	≤-35.47	PASS
11N20MIMO	Ant2	2437	30~1000	-5.72	-69.23	≤-35.72	PASS
11N20MIMO	Ant1	2437	1000~26500	-5.47	-53.06	≤-35.47	PASS
11N20MIMO	Ant2	2437	1000~26500	-5.72	-53.44	≤-35.72	PASS
11N20MIMO	Ant1	2462	0~Reference	-6.10	-6.10	---	PASS
11N20MIMO	Ant2	2462	0~Reference	-3.59	-3.59	---	PASS
11N20MIMO	Ant1	2462	30~1000	-6.10	-68.89	≤-36.1	PASS
11N20MIMO	Ant2	2462	30~1000	-3.59	-68.19	≤-33.59	PASS
11N20MIMO	Ant1	2462	1000~26500	-6.10	-54.03	≤-36.1	PASS
11N20MIMO	Ant2	2462	1000~26500	-3.59	-53.1	≤-33.59	PASS
11N40MIMO	Ant1	2422	0~Reference	-6.81	-6.81	---	PASS
11N40MIMO	Ant2	2422	0~Reference	-5.83	-5.83	---	PASS
11N40MIMO	Ant1	2422	30~1000	-6.81	-69.01	≤-36.81	PASS
11N40MIMO	Ant2	2422	30~1000	-5.83	-68.35	≤-35.83	PASS
11N40MIMO	Ant1	2422	1000~26500	-6.81	-53.4	≤-36.81	PASS
11N40MIMO	Ant2	2422	1000~26500	-5.83	-52.61	≤-35.83	PASS
11N40MIMO	Ant1	2437	0~Reference	-7.52	-7.52	---	PASS
11N40MIMO	Ant2	2437	0~Reference	-5.39	-5.39	---	PASS
11N40MIMO	Ant1	2437	30~1000	-7.52	-68.4	≤-37.52	PASS
11N40MIMO	Ant2	2437	30~1000	-5.39	-68.21	≤-35.39	PASS
11N40MIMO	Ant1	2437	1000~26500	-7.52	-53.78	≤-37.52	PASS
11N40MIMO	Ant2	2437	1000~26500	-5.39	-53.57	≤-35.39	PASS
11N40MIMO	Ant1	2452	0~Reference	-5.51	-5.51	---	PASS
11N40MIMO	Ant2	2452	0~Reference	-7.09	-7.09	---	PASS
11N40MIMO	Ant1	2452	30~1000	-5.51	-68.7	≤-35.51	PASS
11N40MIMO	Ant2	2452	30~1000	-7.09	-68.32	≤-37.09	PASS
11N40MIMO	Ant1	2452	1000~26500	-5.51	-53.86	≤-35.51	PASS
11N40MIMO	Ant2	2452	1000~26500	-7.09	-53.27	≤-37.09	PASS

MIMO

TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	Result [dBm]	Limit [dBm]	Verdict
11N20MIMO	MIMO	2412	30~1000	-67.89	≤-32.62	PASS
11N20MIMO	MIMO	2412	1000~26500	-53.43	≤-32.62	PASS
11N20MIMO	MIMO	2437	30~1000	-69.23	≤-35.72	PASS
11N20MIMO	MIMO	2437	1000~26500	-53.44	≤-35.72	PASS

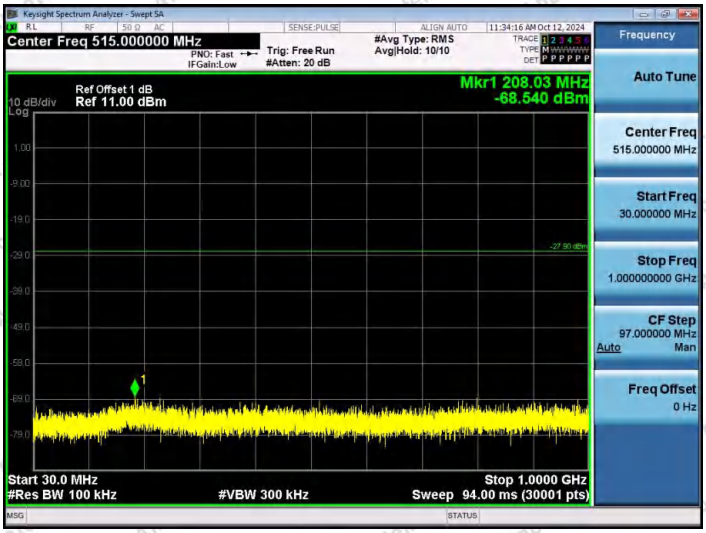
11N20MIMO	MIMO	2462	30~1000	-68.19	≤-36.10	PASS
11N20MIMO	MIMO	2462	1000~26500	-53.1	≤-36.10	PASS
11N40MIMO	MIMO	2422	30~1000	-68.35	≤-36.81	PASS
11N40MIMO	MIMO	2422	1000~26500	-52.61	≤-36.81	PASS
11N40MIMO	MIMO	2437	30~1000	-68.21	≤-37.52	PASS
11N40MIMO	MIMO	2437	1000~26500	-53.57	≤-37.52	PASS
11N40MIMO	MIMO	2452	30~1000	-68.32	≤-37.09	PASS
11N40MIMO	MIMO	2452	1000~26500	-53.27	≤-37.09	PASS

NOTE: MIMO= 10*LOG((10^ANT1/10)+10^(ANT2/10))

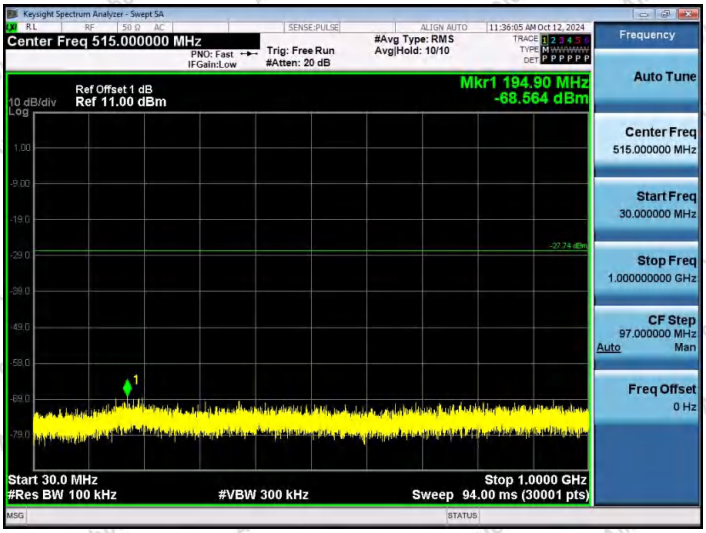
Test Graphs

11B-Ant1-2412-0~Reference-PASS

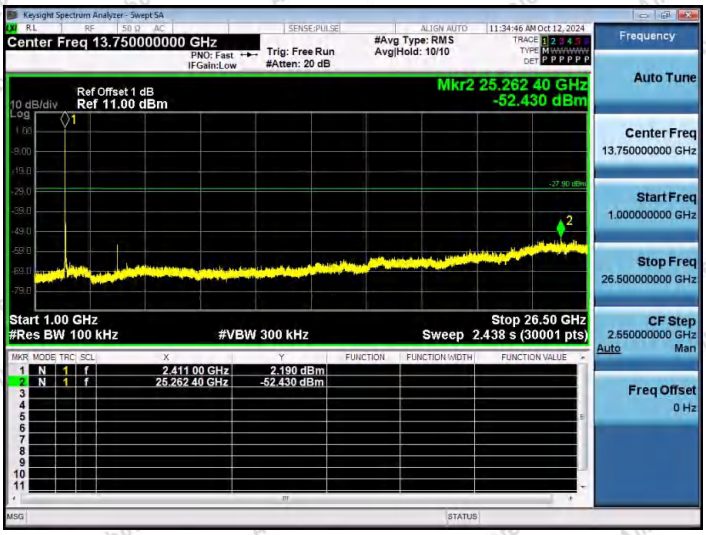
11B-Ant2-2412-0~Reference-PASS



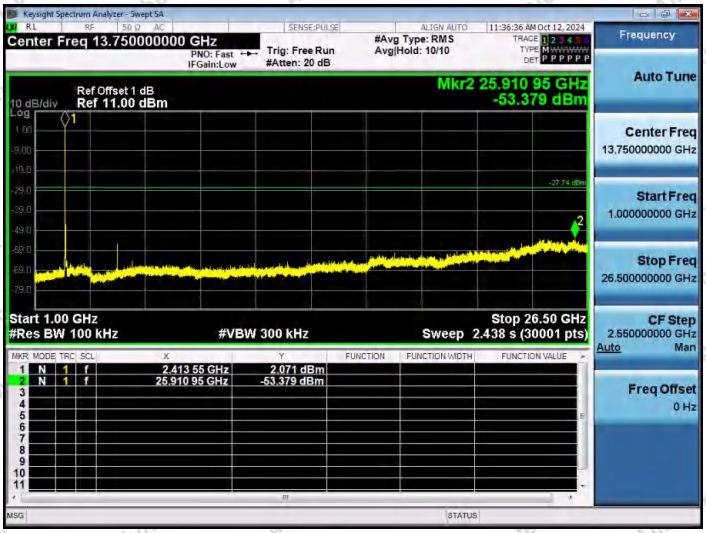
11B-Ant1-2412-30~1000-PASS



11B-Ant2-2412-30~1000-PASS



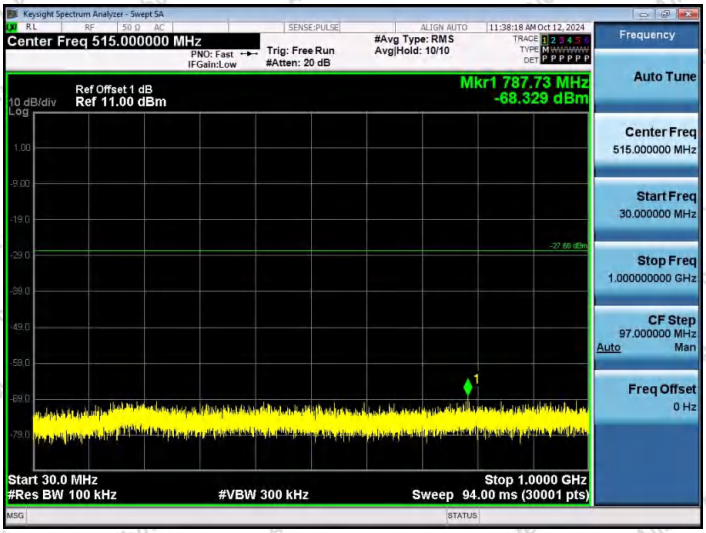
11B-Ant1-2412-1000~26500-PASS



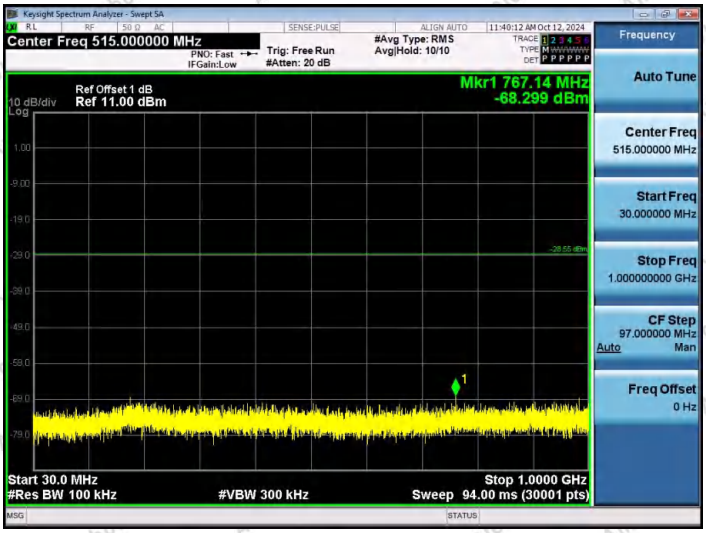
11B-Ant2-2412-1000~26500-PASS

11B-Ant1-2437-0~Reference-PASS

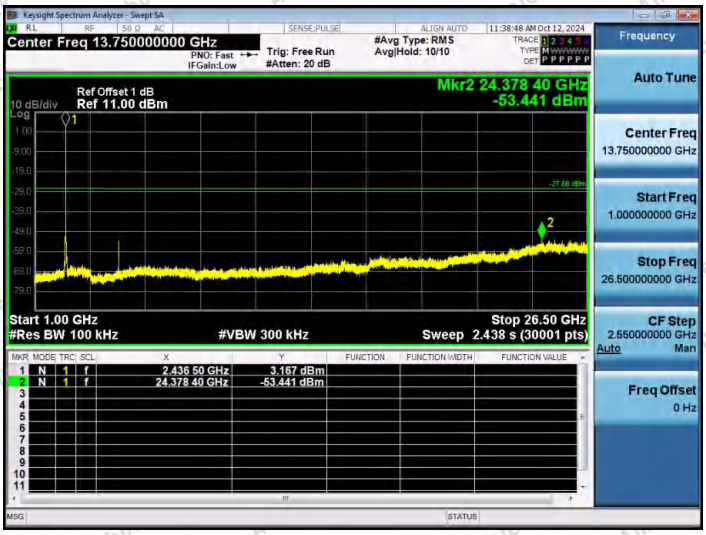
11B-Ant2-2437-0~Reference-PASS



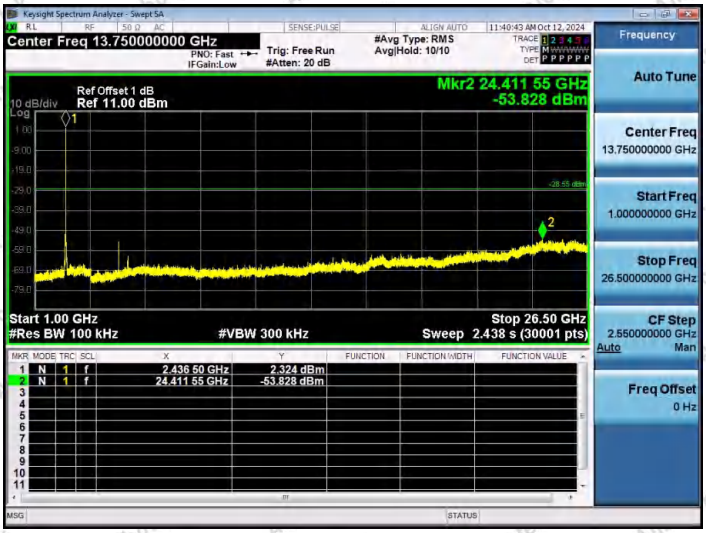
11B-Ant1-2437-30~1000-PASS



11B-Ant2-2437-30~1000-PASS



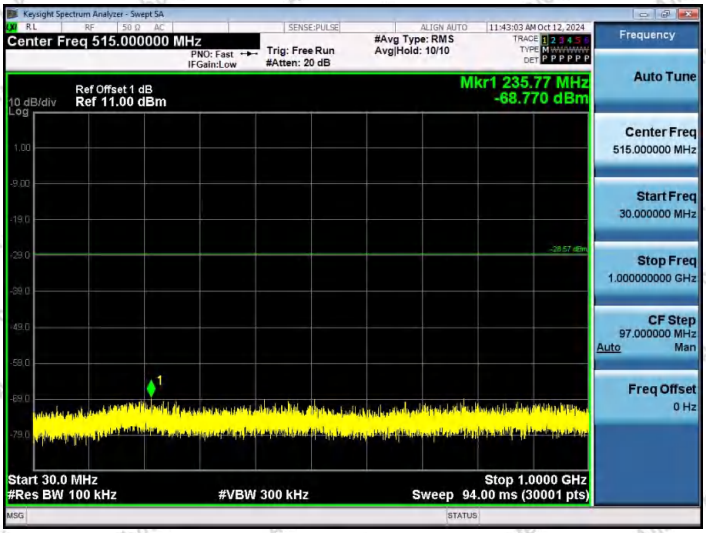
11B-Ant1-2437-1000~26500-PASS



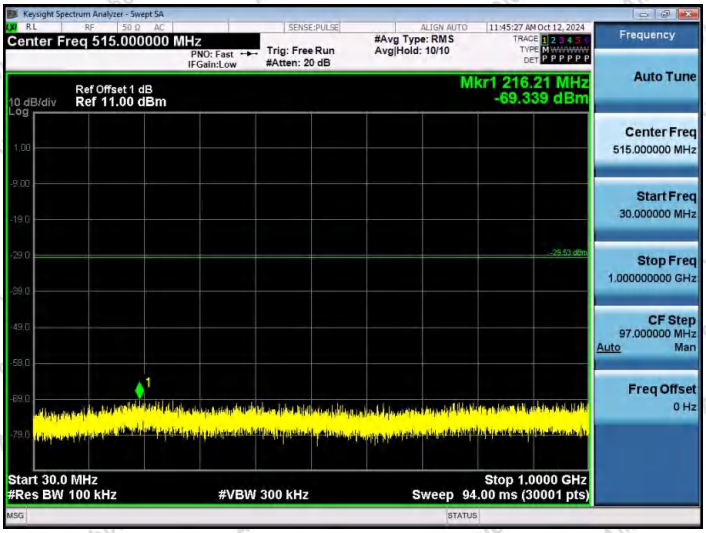
11B-Ant2-2437-1000~26500-PASS

11B-Ant1-2462-0~Reference-PASS

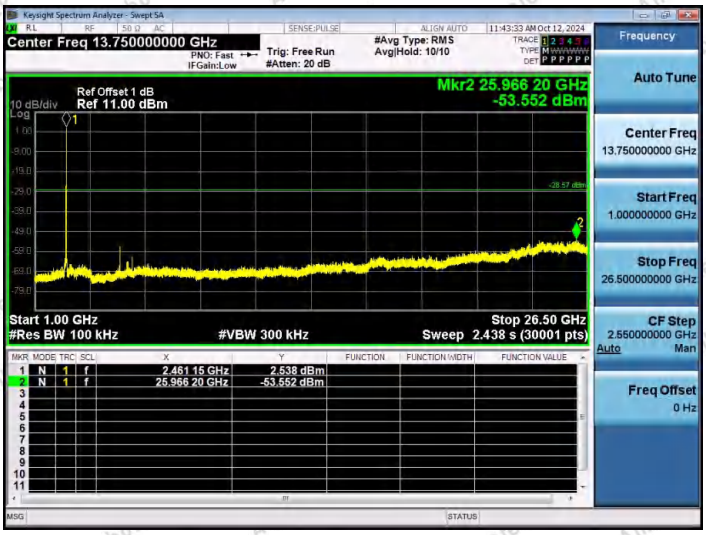
11B-Ant2-2462-0~Reference-PASS



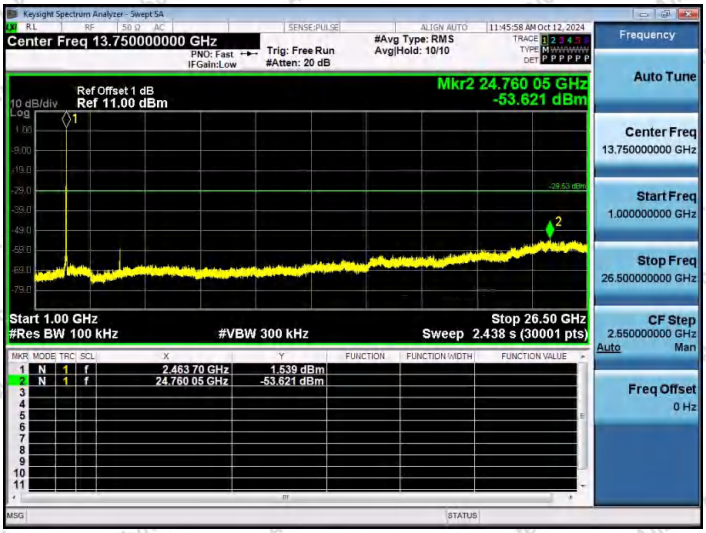
11B-Ant1-2462-30~1000-PASS



11B-Ant2-2462-30~1000-PASS



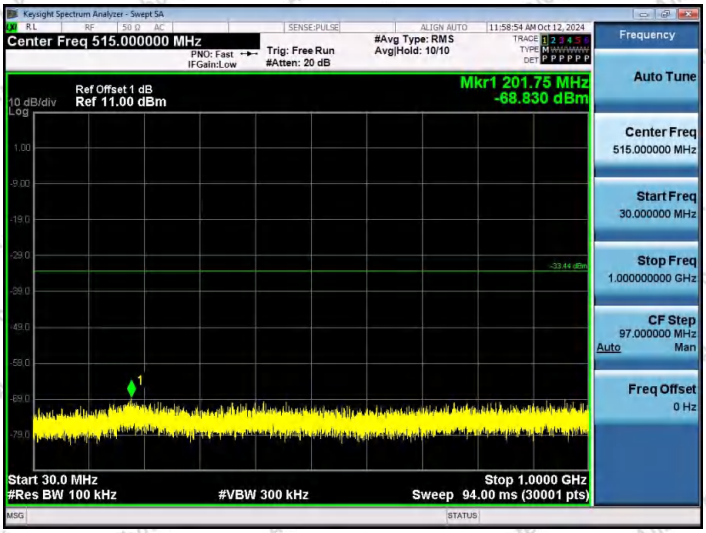
11B-Ant1-2462-1000~26500-PASS



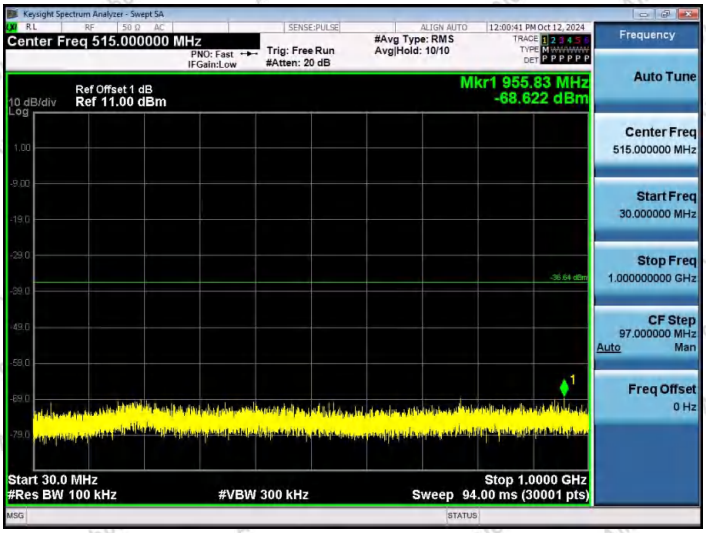
11B-Ant2-2462-1000~26500-PASS

11G-Ant1-2412-0~Reference-PASS

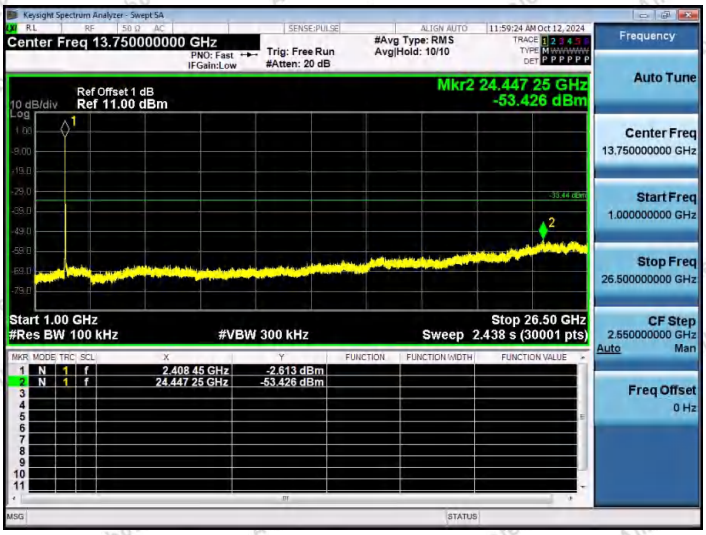
11G-Ant2-2412-0~Reference-PASS



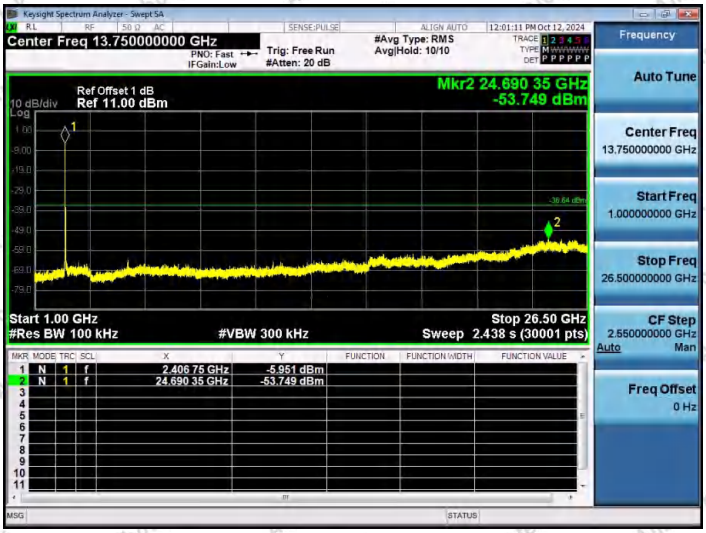
11G-Ant1-2412-30~1000-PASS



11G-Ant2-2412-30~1000-PASS



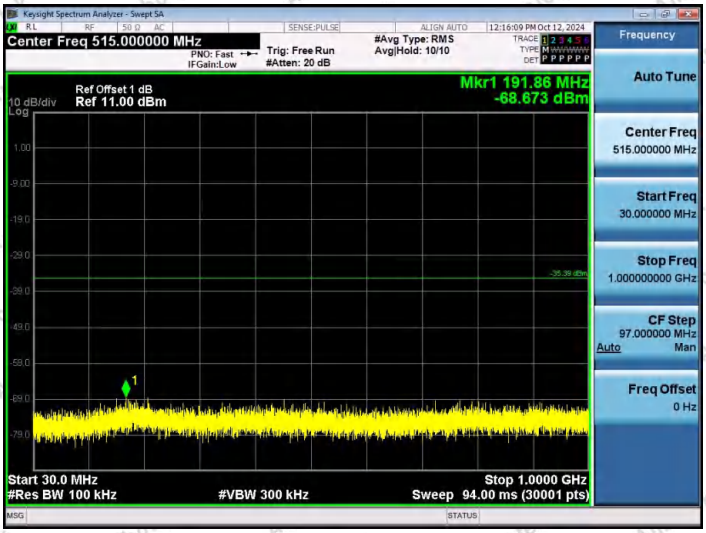
11G-Ant1-2412-1000~26500-PASS



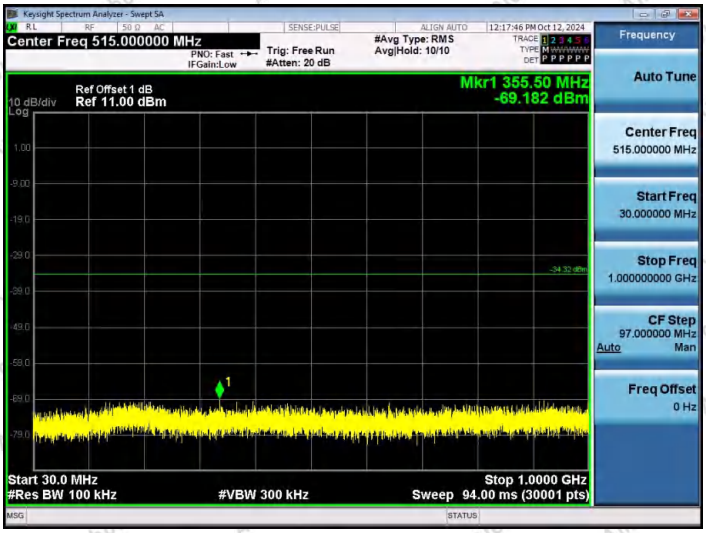
11G-Ant2-2412-1000~26500-PASS

11G-Ant1-2437-0~Reference-PASS

11G-Ant2-2437-0~Reference-PASS

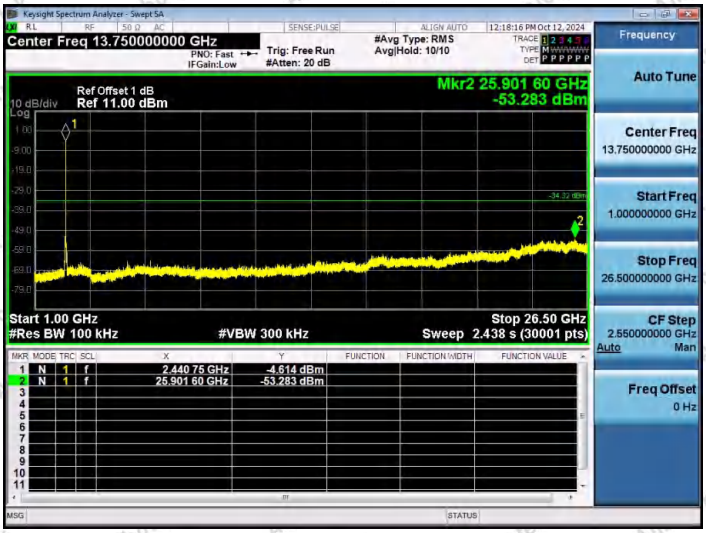


11G-Ant1-2437-30~1000-PASS



11G-Ant2-2437-30~1000-PASS

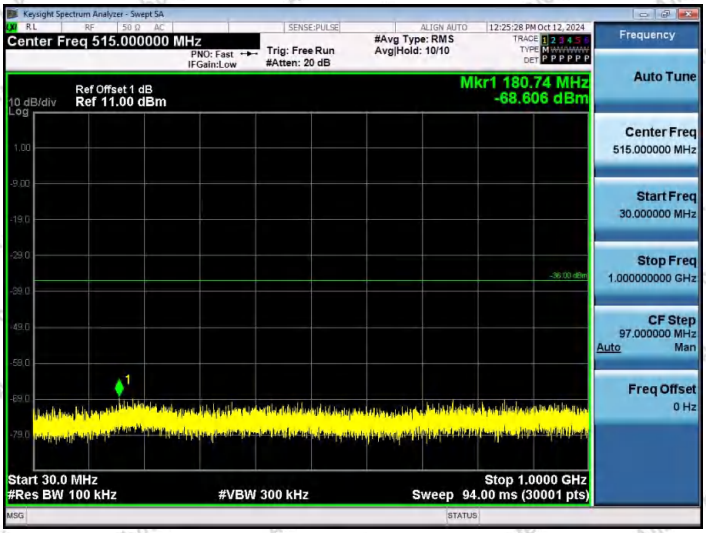
11G-Ant1-2437-1000~26500-PASS



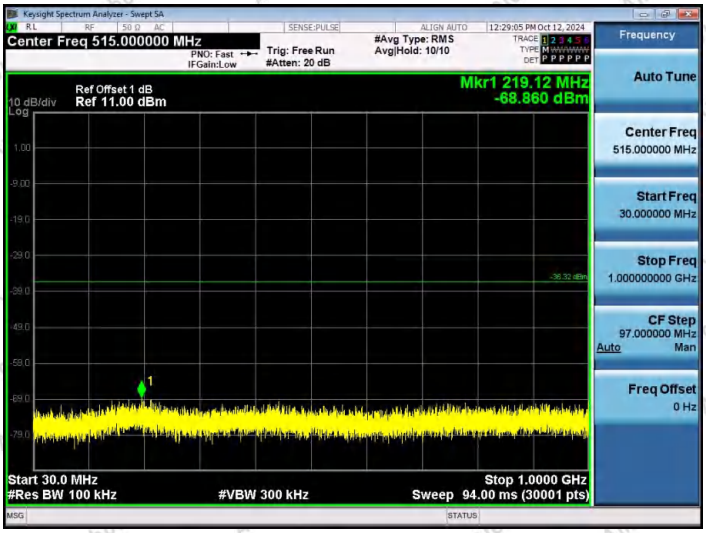
11G-Ant2-2437-1000~26500-PASS

11G-Ant1-2462-0~Reference-PASS

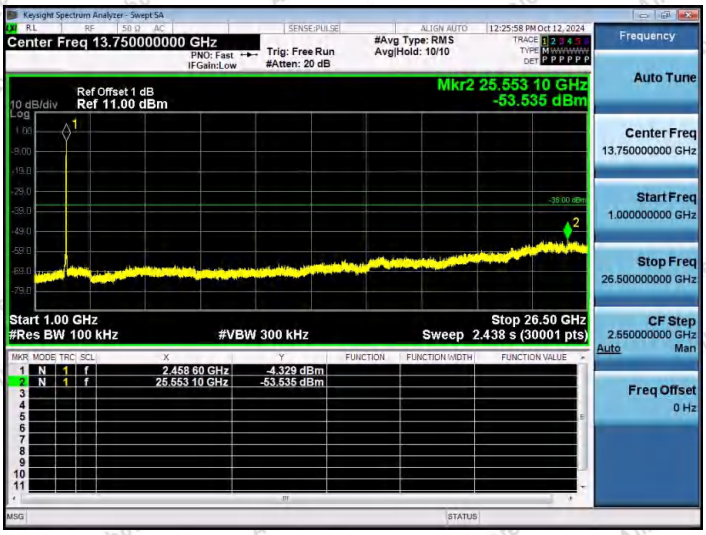
11G-Ant2-2462-0~Reference-PASS



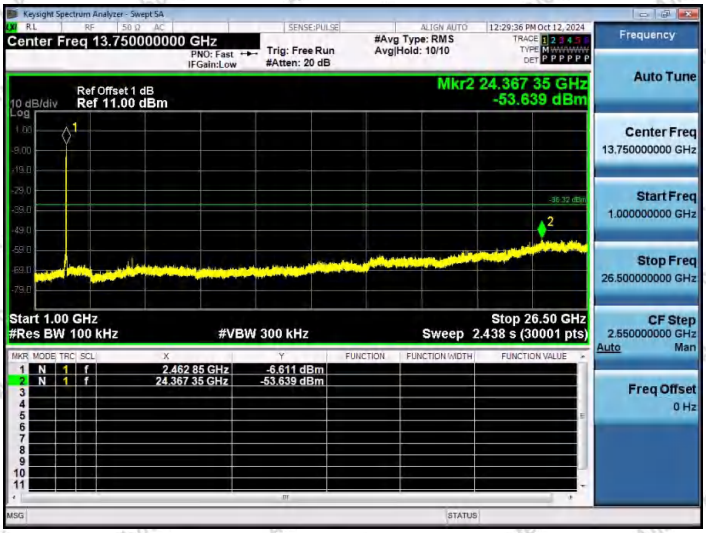
11G-Ant1-2462-30~1000-PASS



11G-Ant2-2462-30~1000-PASS



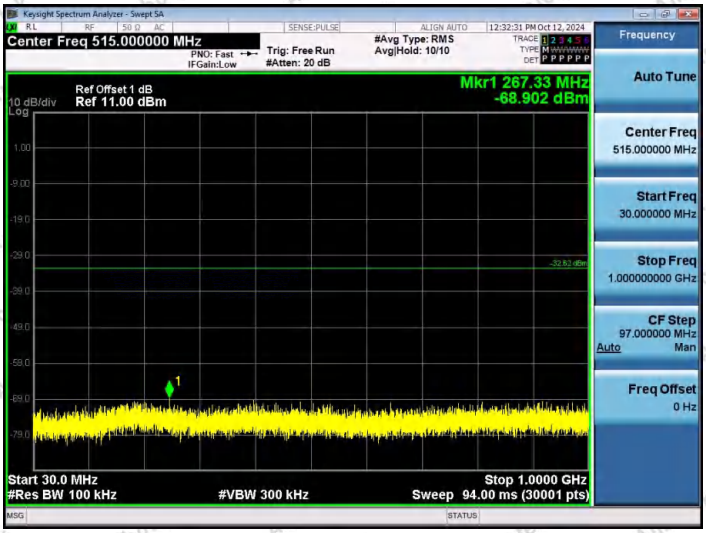
11G-Ant1-2462-1000~26500-PASS



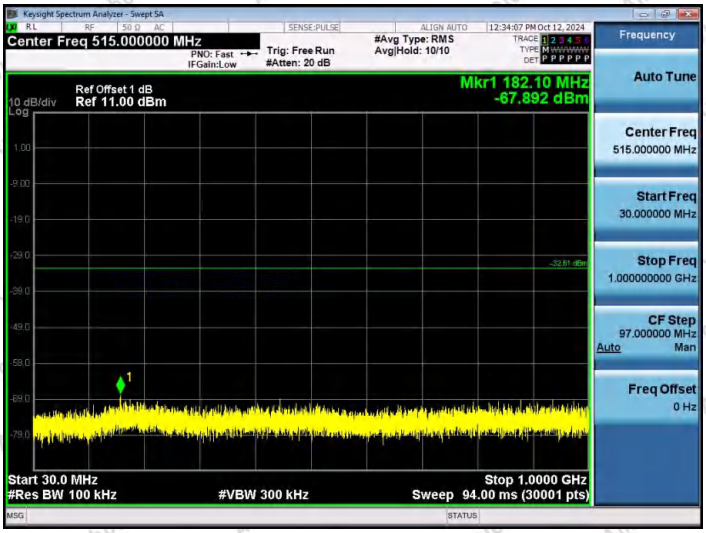
11G-Ant2-2462-1000~26500-PASS

11N20MIMO-Ant1-2412-0~Reference-PASS

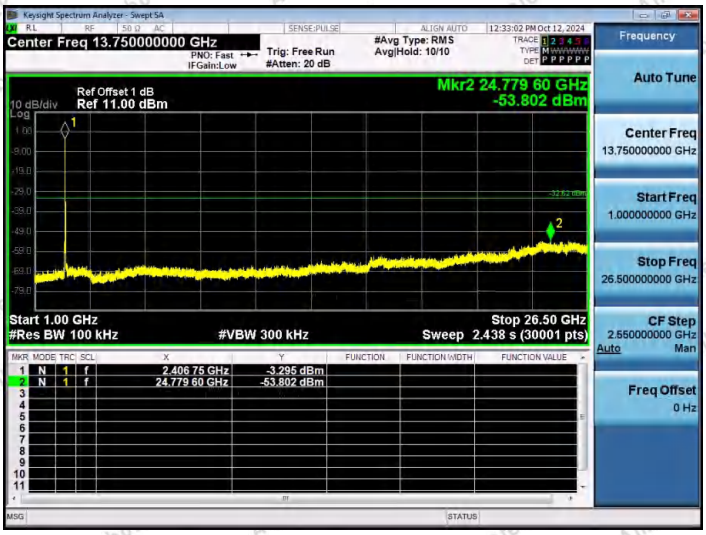
11N20MIMO-Ant2-2412-0~Reference-PASS



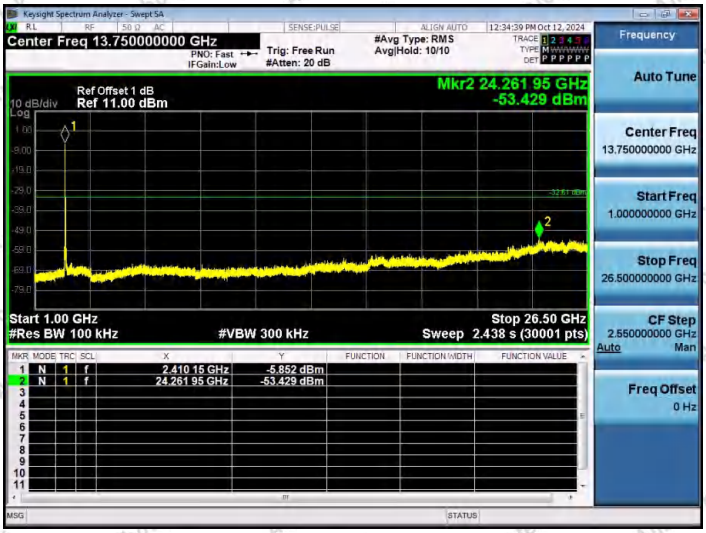
11N20MIMO-Ant1-2412-30~1000-PASS



11N20MIMO-Ant2-2412-30~1000-PASS



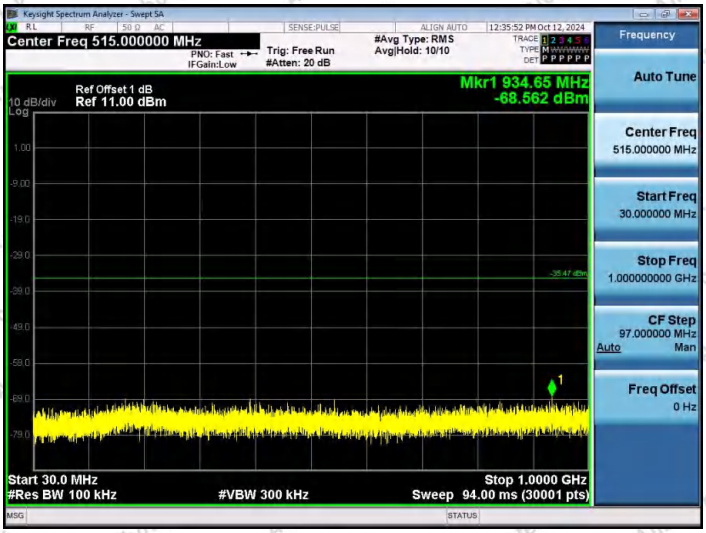
11N20MIMO-Ant1-2412-1000~26500-PASS



11N20MIMO-Ant2-2412-1000~26500-PASS

11N20MIMO-Ant1-2437-0~Reference-PASS

11N20MIMO-Ant2-2437-0~Reference-PASS



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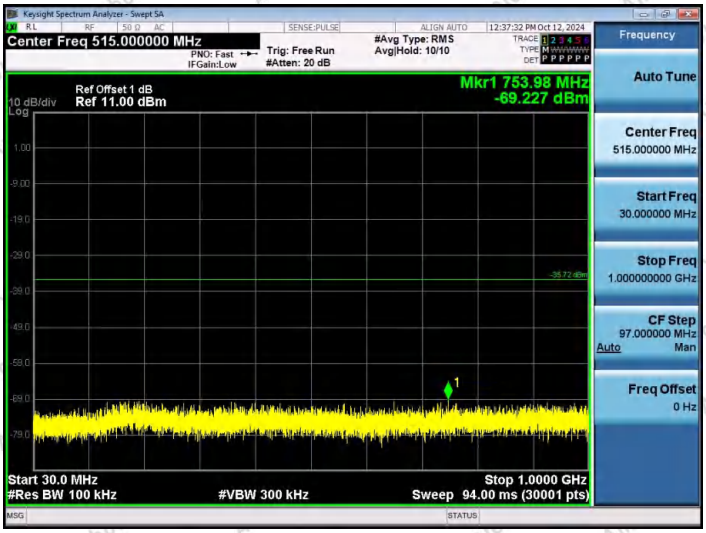

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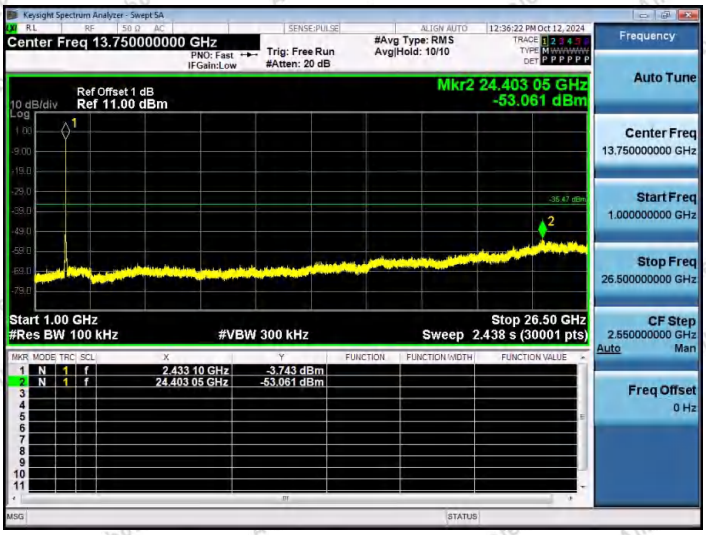

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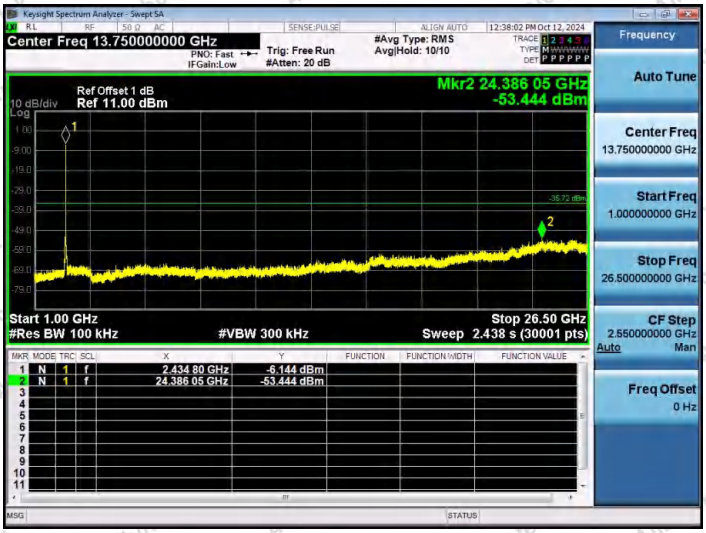
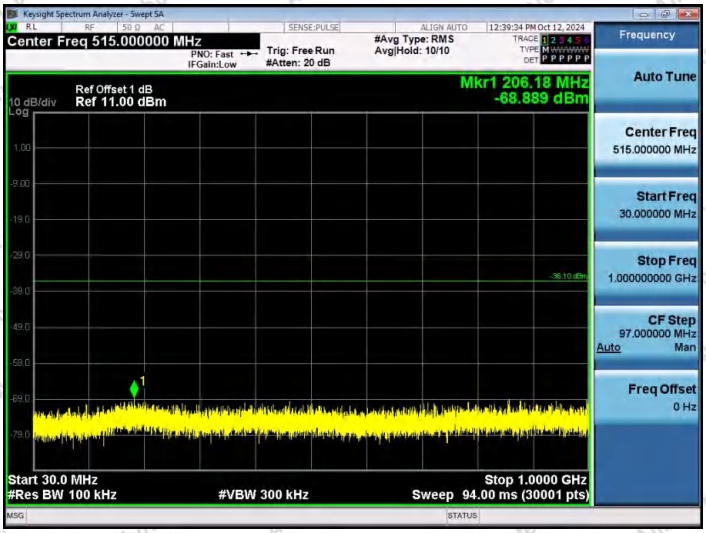


11N20MIMO-Ant2-2437-1000~26500-PASS

11N20MIMO-Ant1-2462-0~Reference-PASS

11N20MIMO-Ant2-2462-0~Reference-PASS



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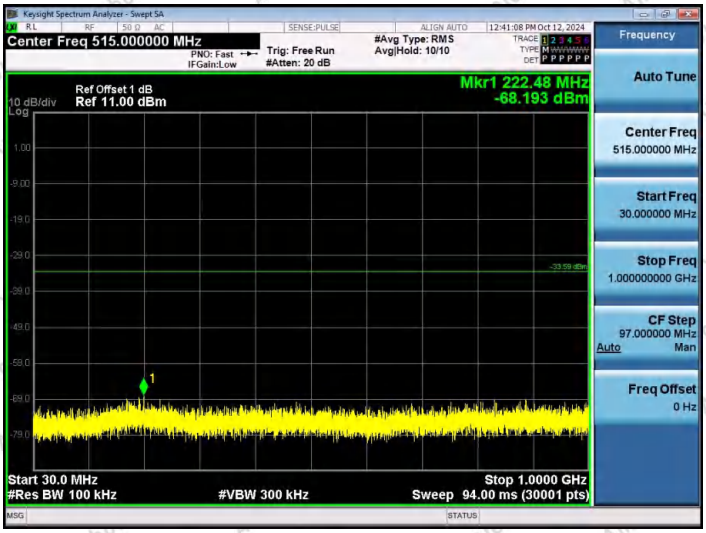

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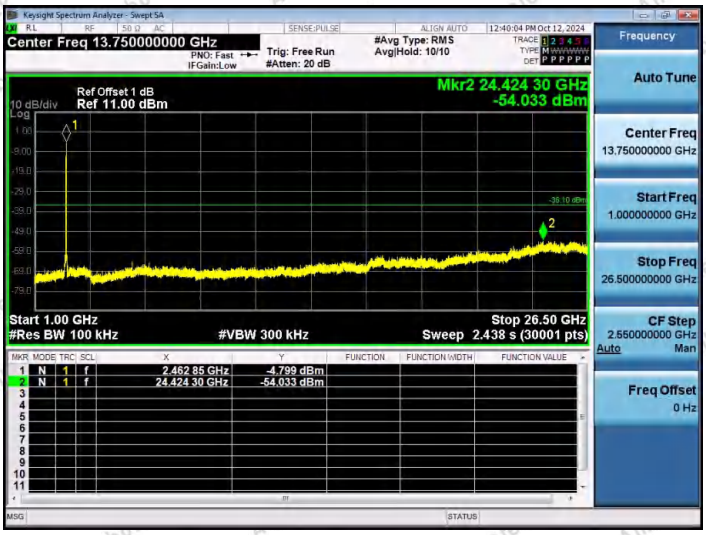

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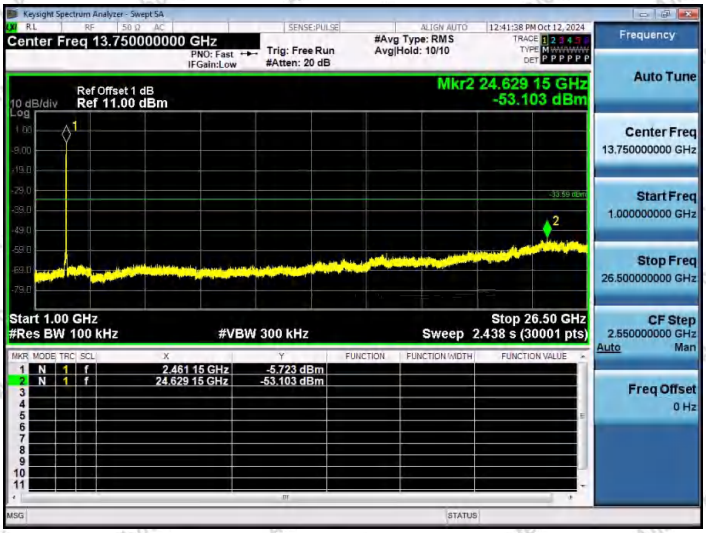
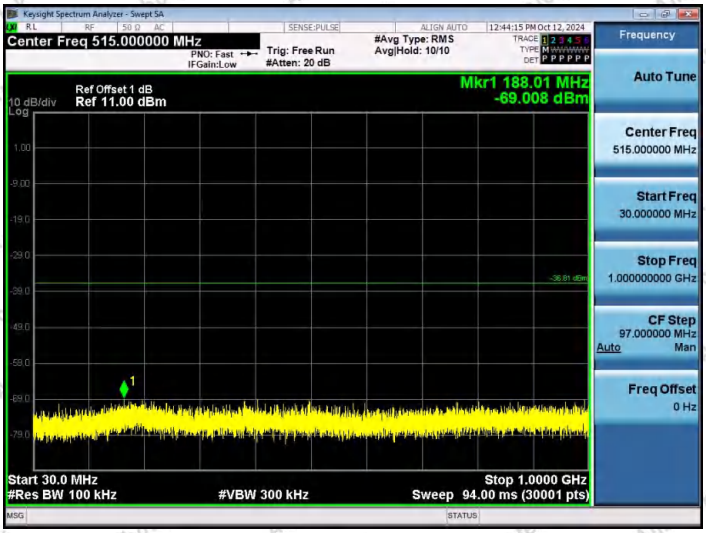


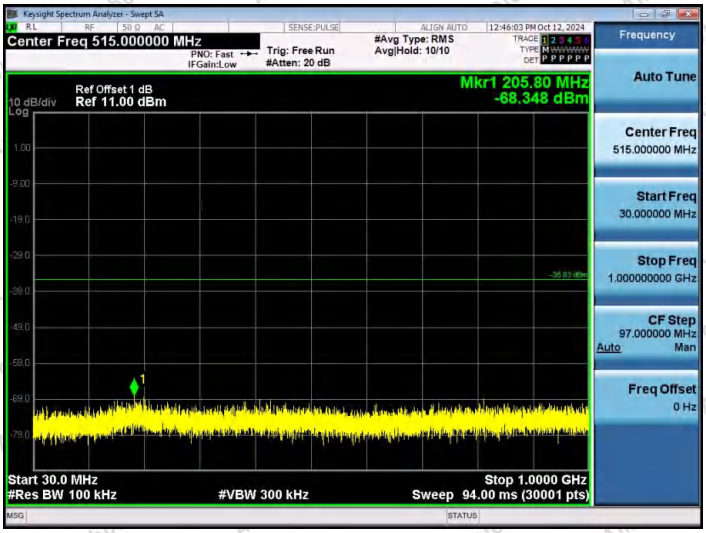
11N20MIMO-Ant2-2462-1000~26500-PASS

11N40MIMO-Ant1-2422-0~Reference-PASS

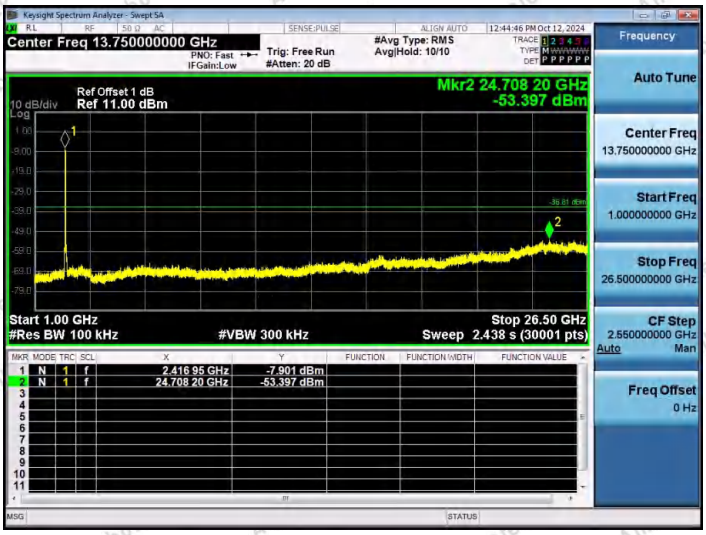
11N40MIMO-Ant2-2422-0~Reference-PASS



11N40MIMO-Ant1-2422-30~1000-PASS



11N40MIMO-Ant2-2422-30~1000-PASS



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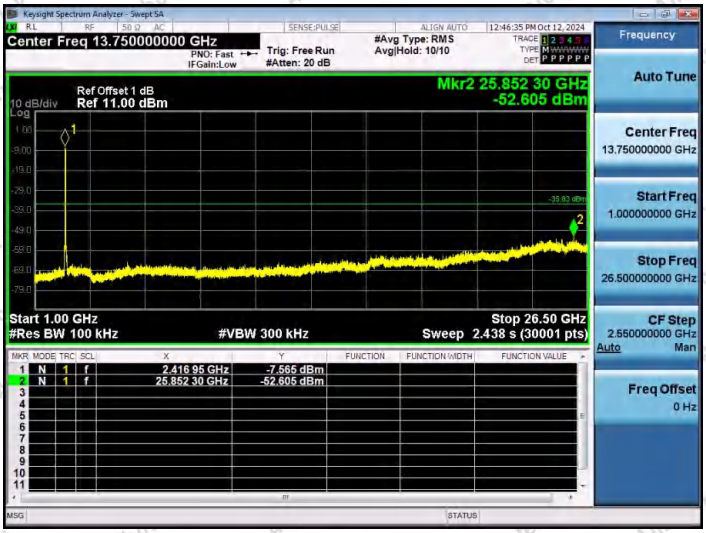
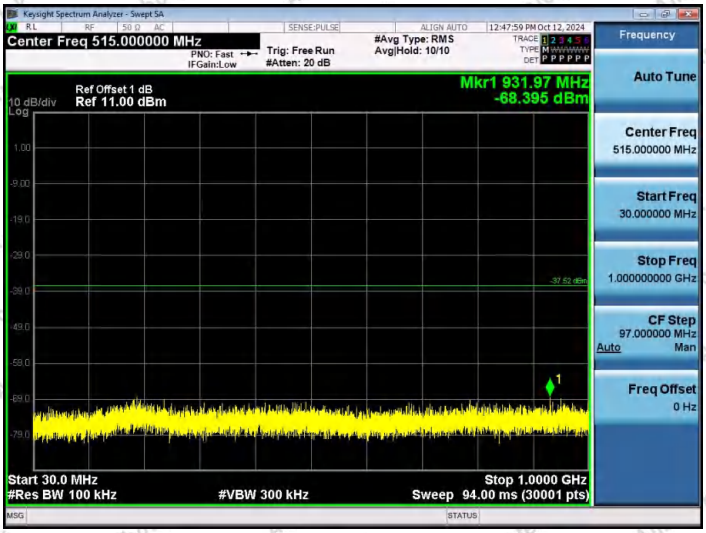


11N40MIMO-Ant2-2422-1000~26500-PASS

11N40MIMO-Ant1-2437-0~Reference-PASS

11N40MIMO-Ant2-2437-0~Reference-PASS



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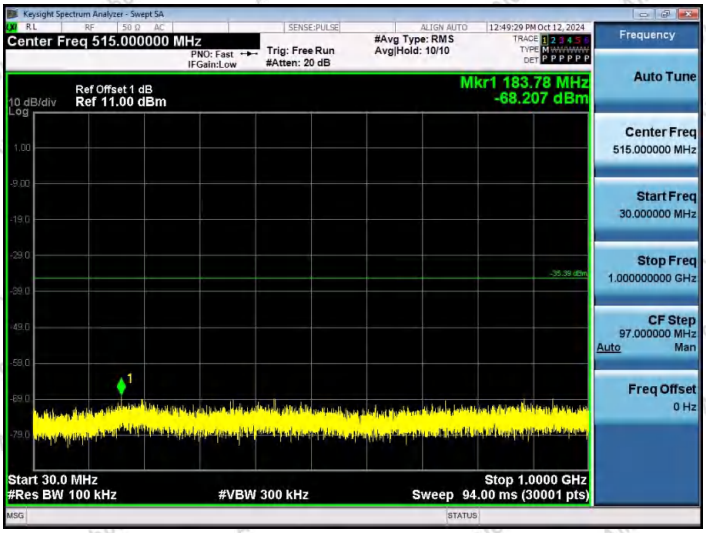


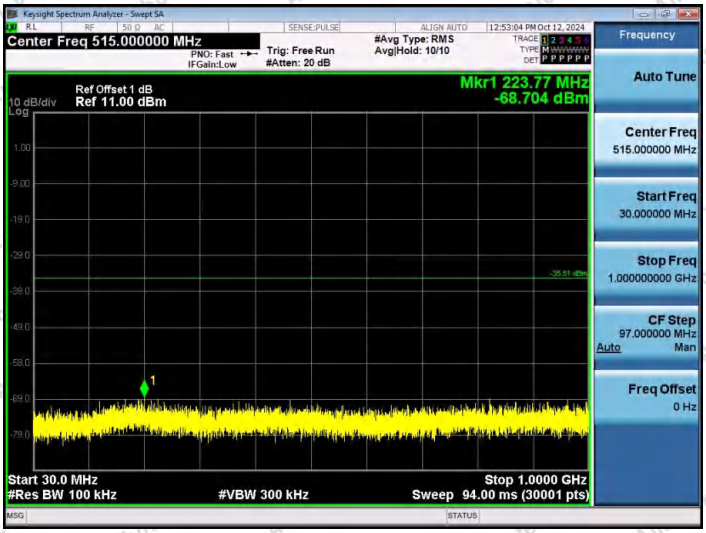
11N40MIMO-Ant2-2437-30~1000-PASS

11N40MIMO-Ant1-2437-1000~26500-PASS

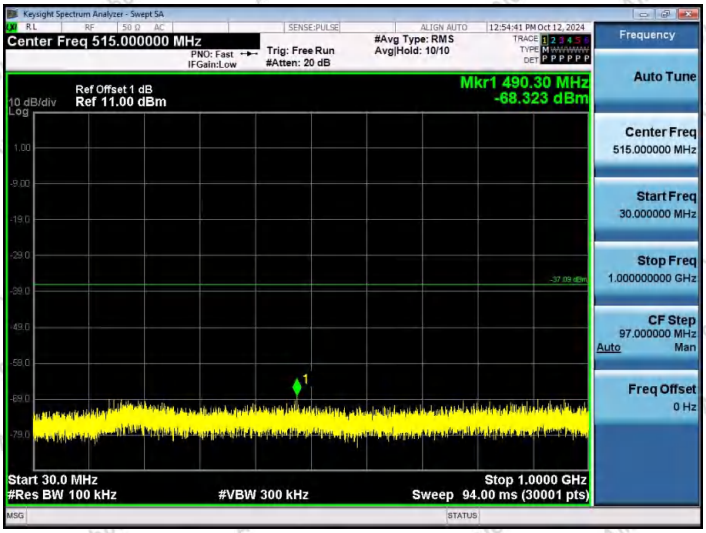
11N40MIMO-Ant2-2437-1000~26500-PASS

11N40MIMO-Ant1-2452-0~Reference-PASS

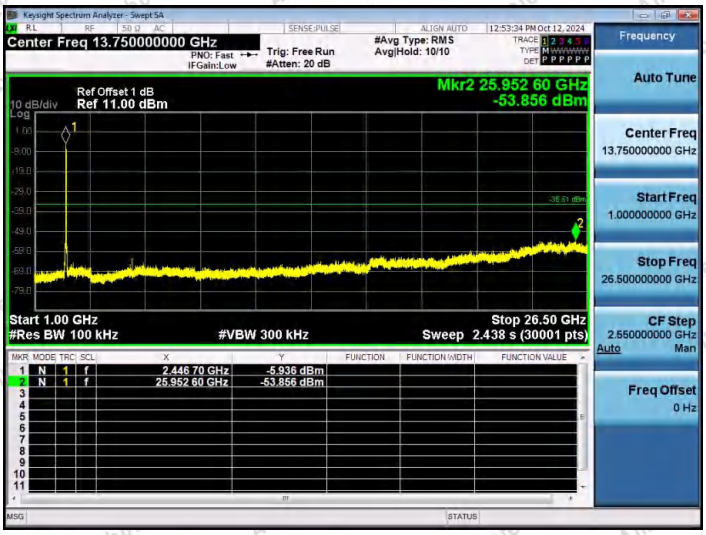
11N40MIMO-Ant2-2452-0~Reference-PASS



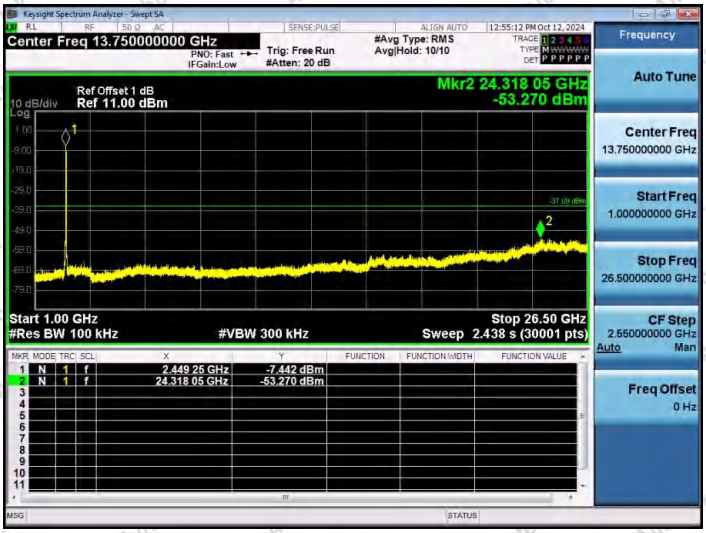
11N40MIMO-Ant1-2452-30~1000-PASS



11N40MIMO-Ant2-2452-30~1000-PASS



11N40MIMO-Ant1-2452-1000~26500-PASS



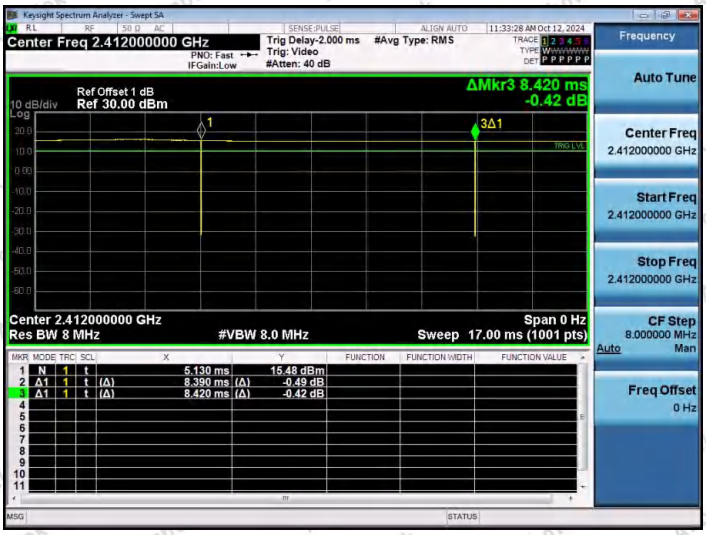
11N40MIMO-Ant2-2452-1000~26500-PASS

Appendix G: Duty Cycle

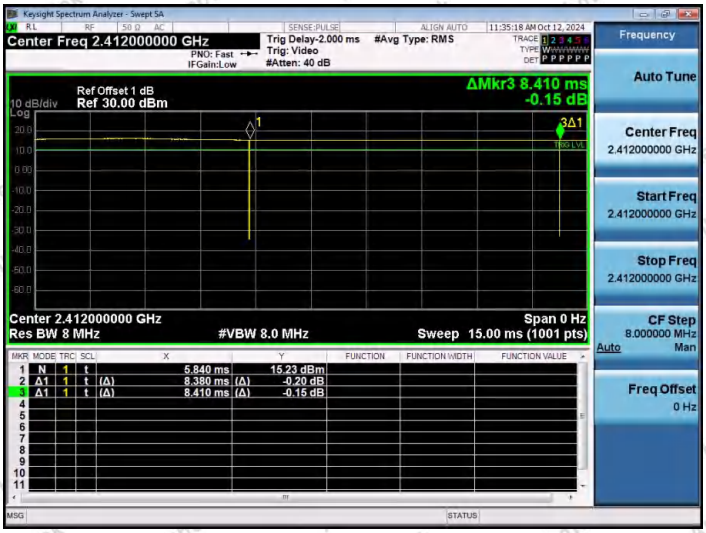
Test Result

TestMode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Factor
11B	Ant1	2412	8.39	8.42	99.64	0.02
11B	Ant2	2412	8.38	8.41	99.64	0.02
11B	Ant1	2437	8.39	8.42	99.64	0.02
11B	Ant2	2437	8.38	8.42	99.52	0.02
11B	Ant1	2462	8.38	8.41	99.64	0.02
11B	Ant2	2462	8.38	8.41	99.64	0.02
11G	Ant1	2412	1.40	1.43	97.90	0.09
11G	Ant2	2412	1.39	1.42	97.89	0.09
11G	Ant1	2437	1.39	1.43	97.20	0.12
11G	Ant2	2437	1.39	1.43	97.20	0.12
11G	Ant1	2462	1.39	1.43	97.20	0.12
11G	Ant2	2462	1.39	1.43	97.20	0.12
11N20MIMO	Ant1	2412	1.30	1.34	97.01	0.13
11N20MIMO	Ant2	2412	1.30	1.34	97.01	0.13
11N20MIMO	Ant1	2437	1.30	1.33	97.74	0.10
11N20MIMO	Ant2	2437	1.30	1.34	97.01	0.13
11N20MIMO	Ant1	2462	1.29	1.33	96.99	0.13
11N20MIMO	Ant2	2462	1.30	1.33	97.74	0.10
11N40MIMO	Ant1	2422	0.65	0.68	95.59	0.20
11N40MIMO	Ant2	2422	0.65	0.69	94.20	0.26
11N40MIMO	Ant1	2437	0.65	0.68	95.59	0.20
11N40MIMO	Ant2	2437	0.64	0.68	94.12	0.26
11N40MIMO	Ant1	2452	0.65	0.69	94.20	0.26
11N40MIMO	Ant2	2452	0.65	0.68	95.59	0.20

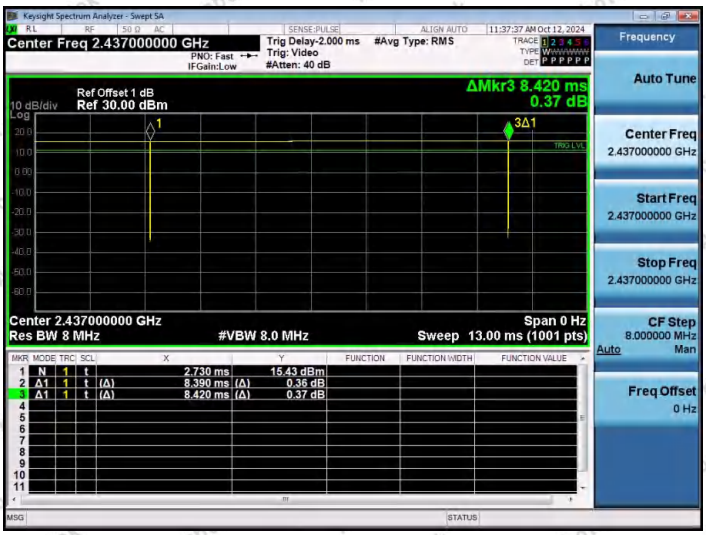
Test Graphs



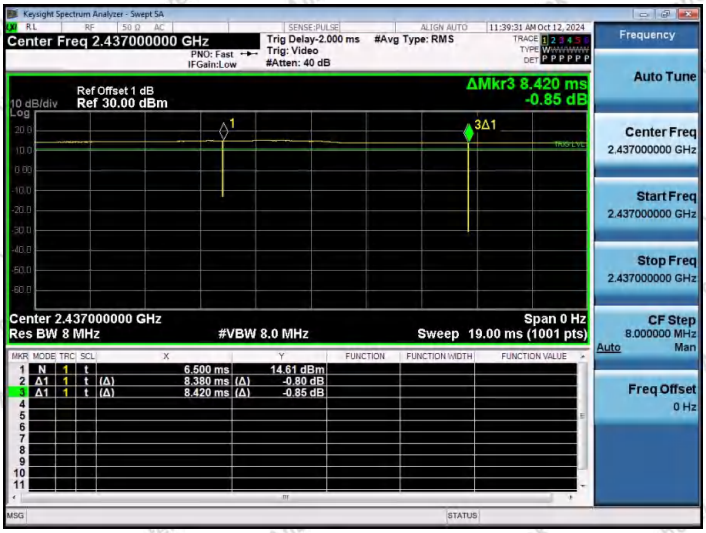
NTNV-11B-Ant1-2412



NTNV-11B-Ant2-2412



NTNV-11B-Ant1-2437



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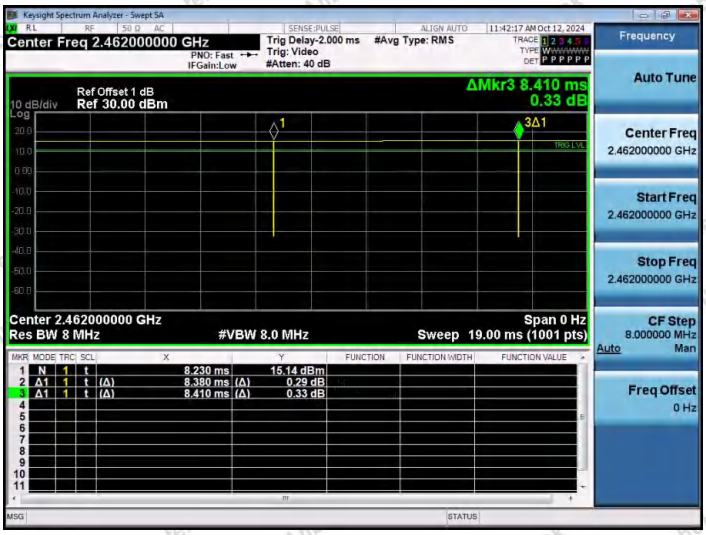
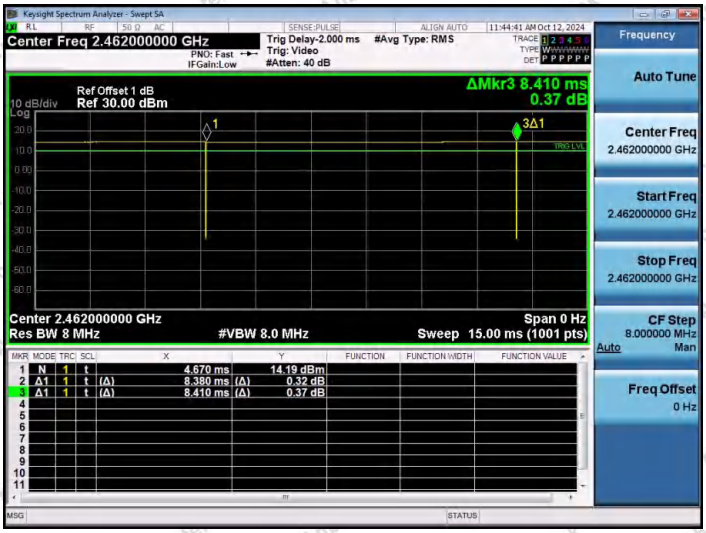
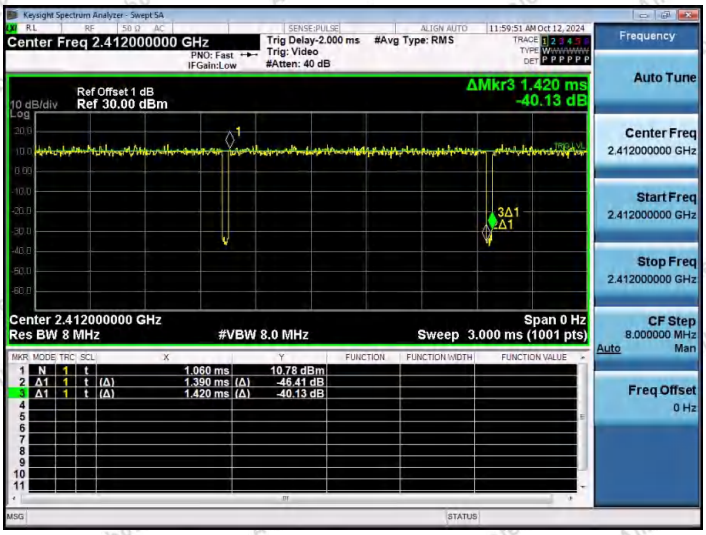


NTNV-11B-Ant1-2462

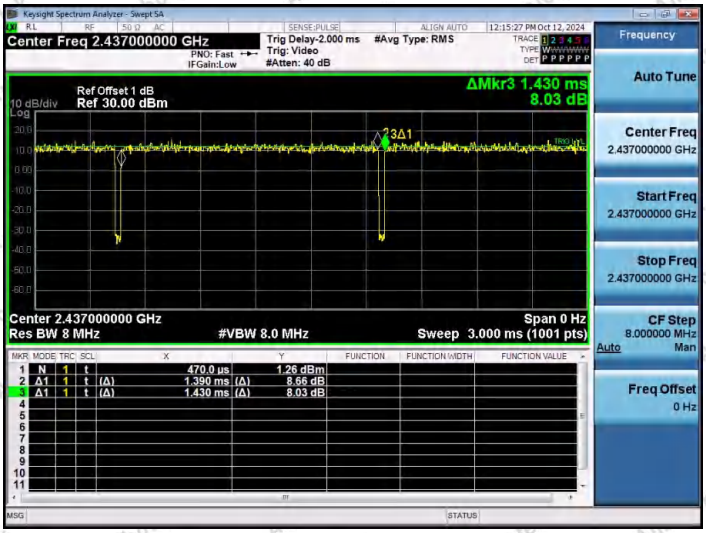


NTNV-11B-Ant2-2462

NTNV-11G-Ant1-2412



NTNV-11G-Ant2-2412



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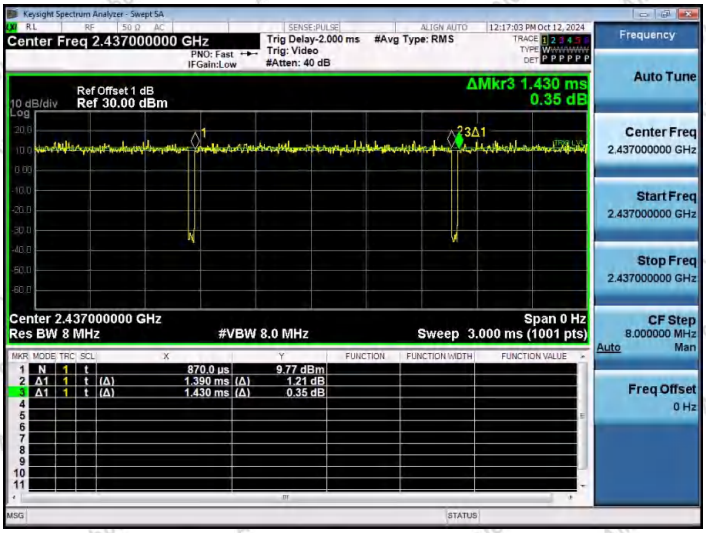

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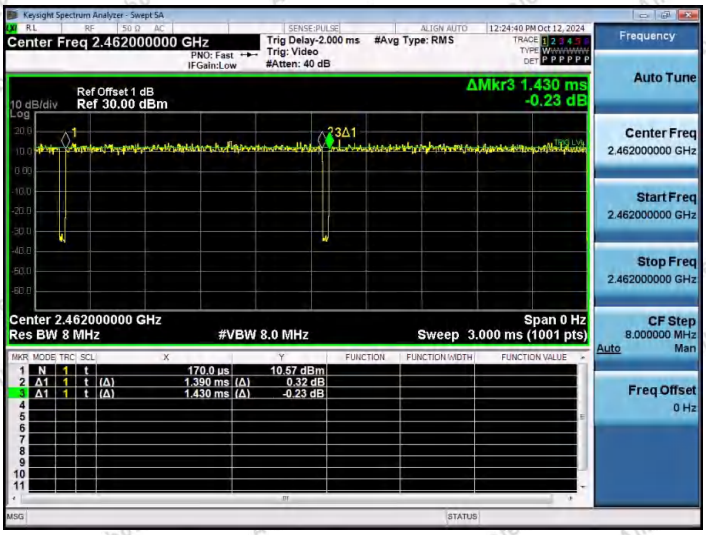

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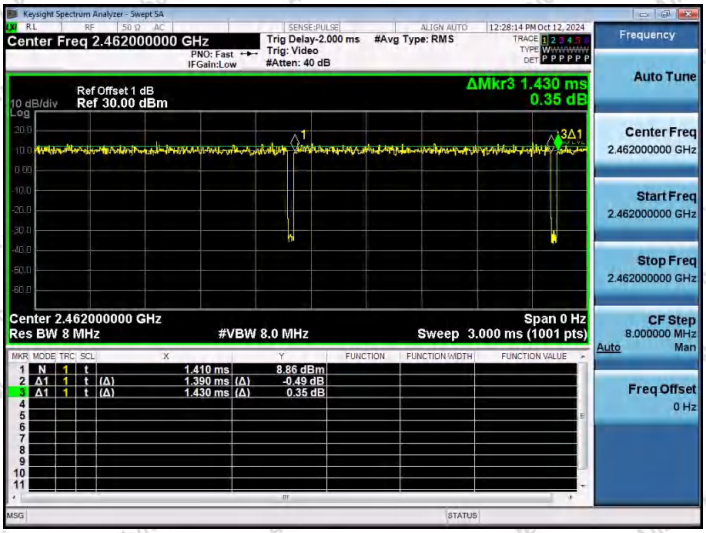

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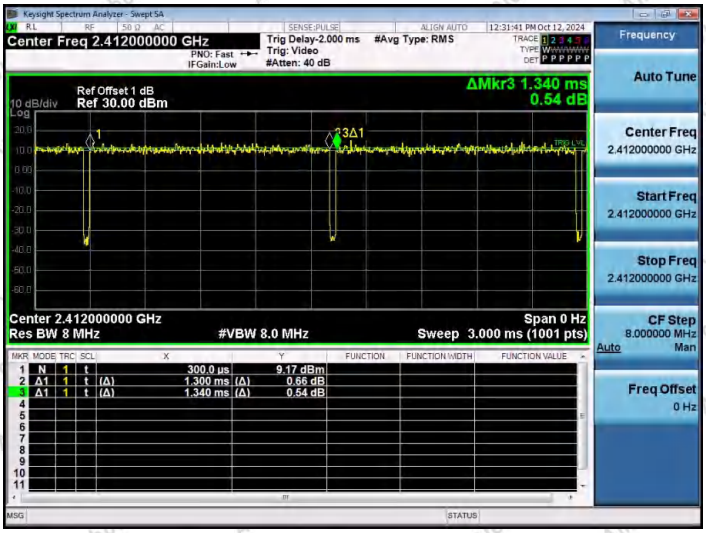
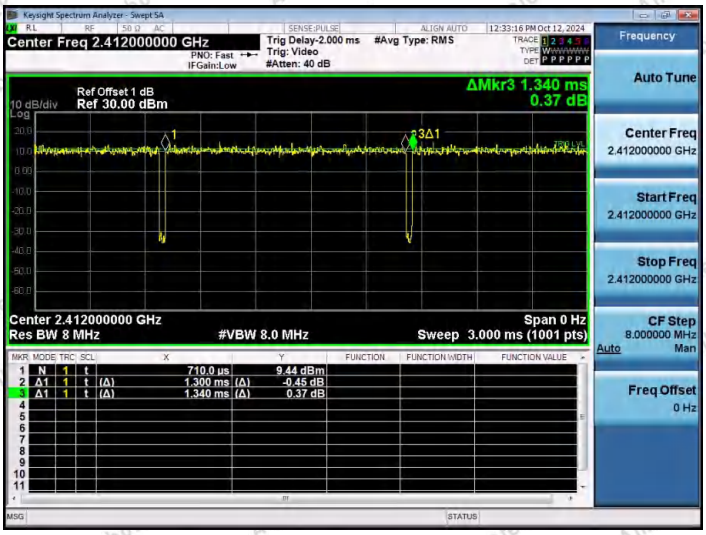


NTNV-11N20MIMO-Ant1-2412



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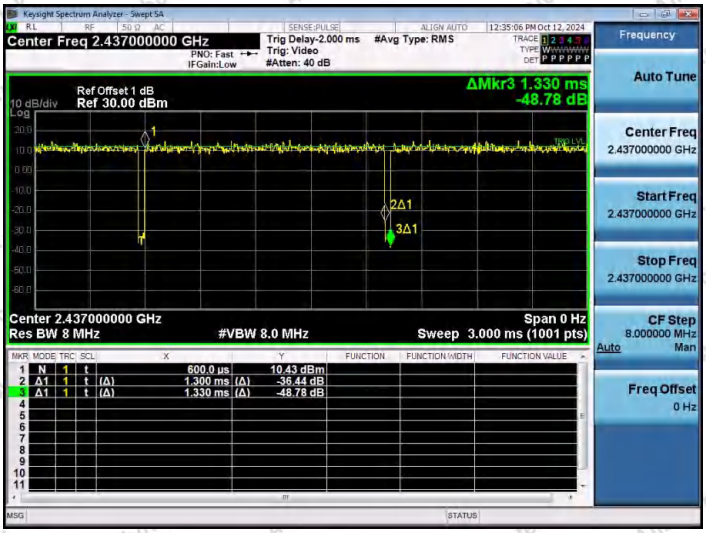

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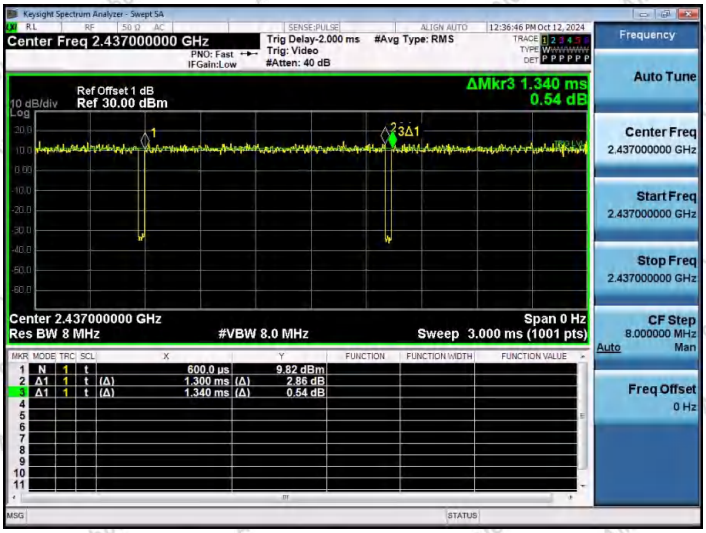

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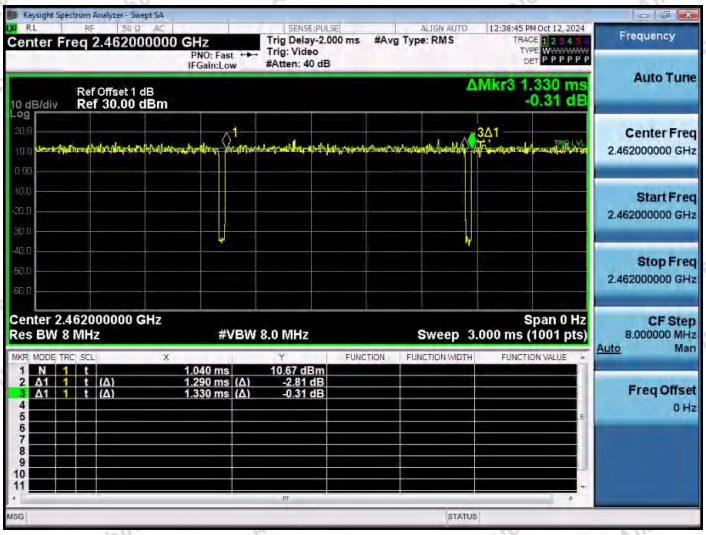

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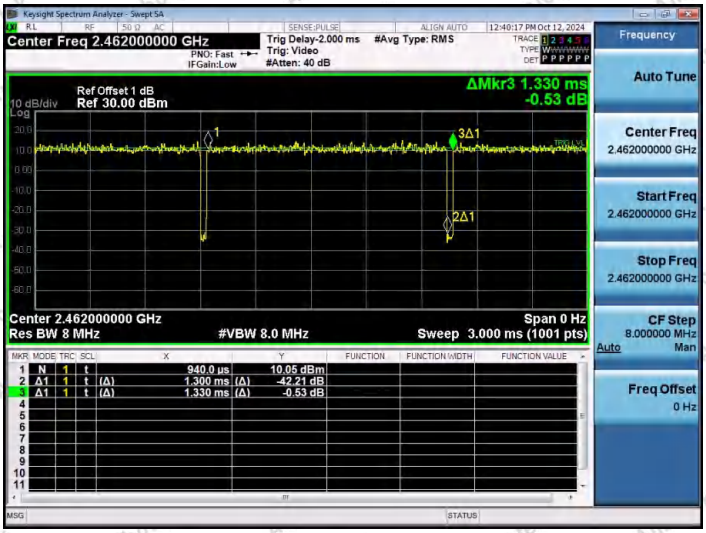

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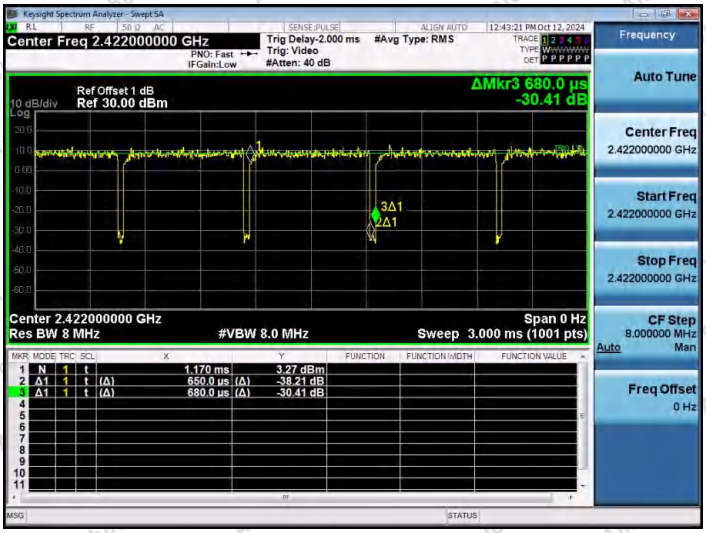
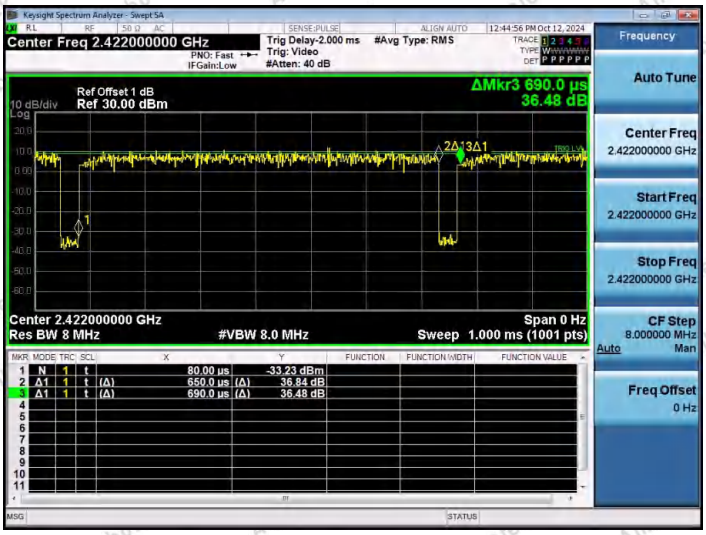


NTNV-11N40MIMO-Ant1-2422



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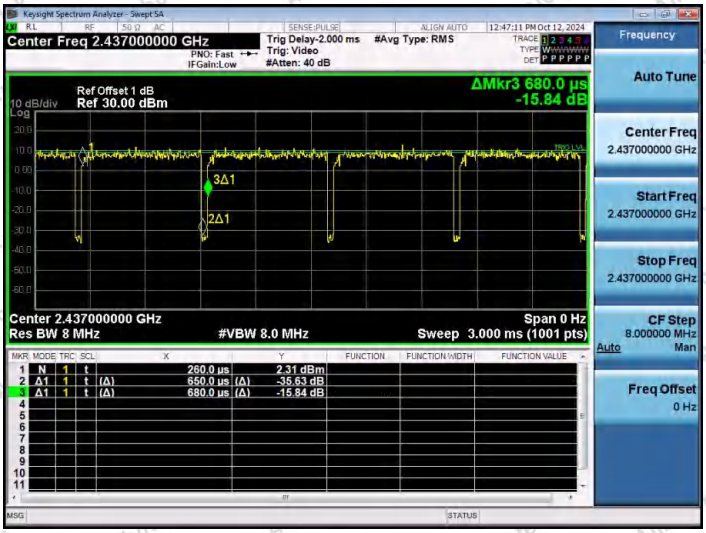

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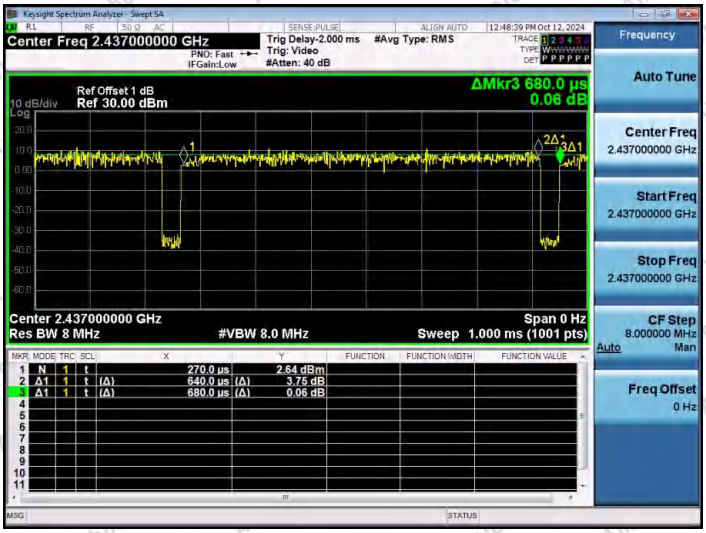

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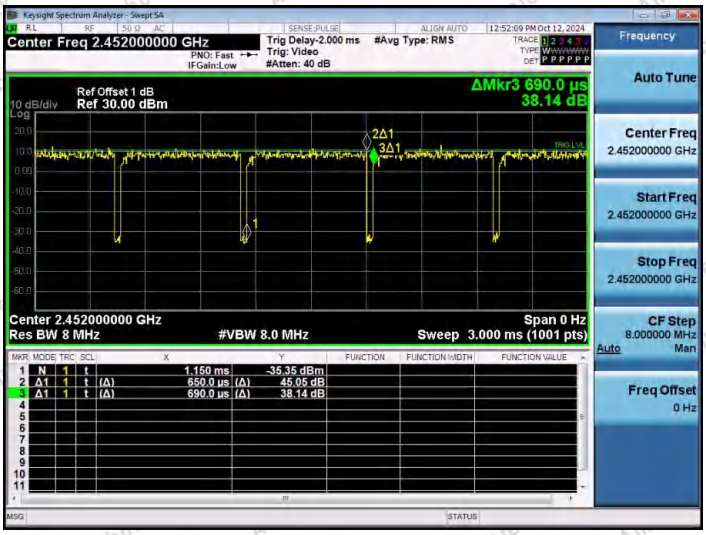

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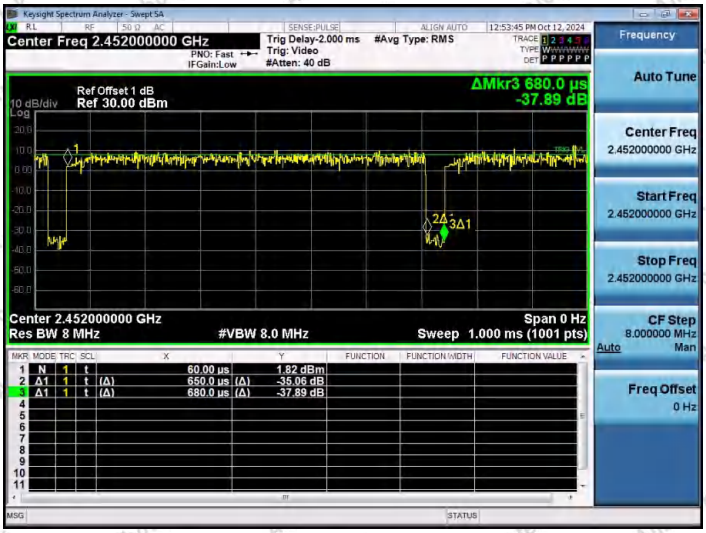

NTNV-11N40MIMO-Ant2-2452

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