Appendix C

RF Test Data for 2.4G WIFI (Conducted Measurement)

Product Name: 4G Phone

Test Model: mindphone 1

Environmental Conditions

Temperature:	23.8 ° C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Ling Zhu
Supervised by:	Li Huan

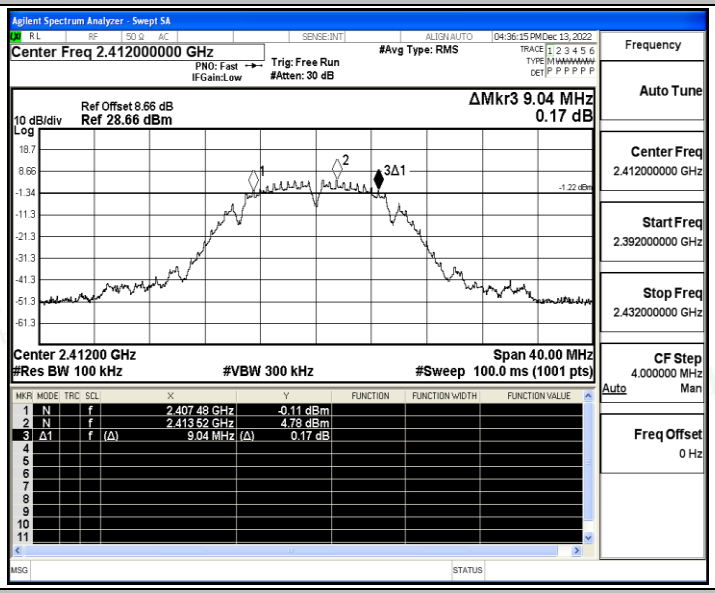
C.1 DTS Bandwidth

Test Result

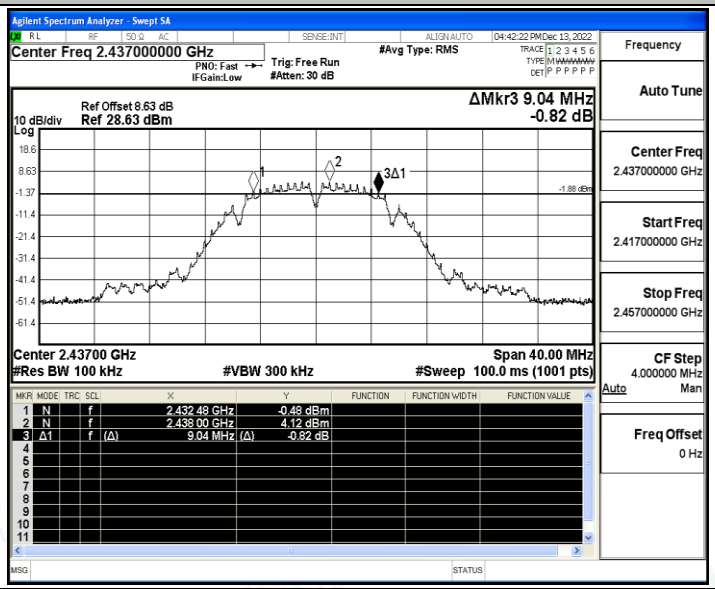
TestMode	Antenna	Freq(MHz)	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	9.040	2407.480	2416.520	0.5	PASS
		2437	9.040	2432.480	2441.520	0.5	PASS
		2462	9.040	2457.480	2466.520	0.5	PASS
11G	Ant1	2412	16.320	2403.840	2420.160	0.5	PASS
		2437	16.360	2428.800	2445.160	0.5	PASS
		2462	16.320	2453.840	2470.160	0.5	PASS
11N20SISO	Ant1	2412	17.560	2403.200	2420.760	0.5	PASS
		2437	17.560	2428.200	2445.760	0.5	PASS
		2462	17.600	2453.200	2470.800	0.5	PASS
11N40SISO	Ant1	2422	35.920	2403.840	2439.760	0.5	PASS
		2437	36.000	2418.840	2454.840	0.5	PASS
		2452	35.680	2433.840	2469.520	0.5	PASS

Test Graphs

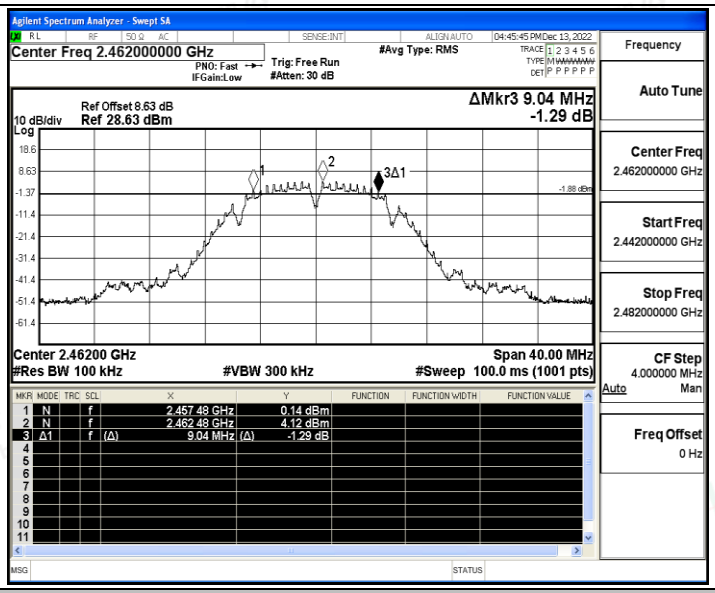
11B_Ant1_2412



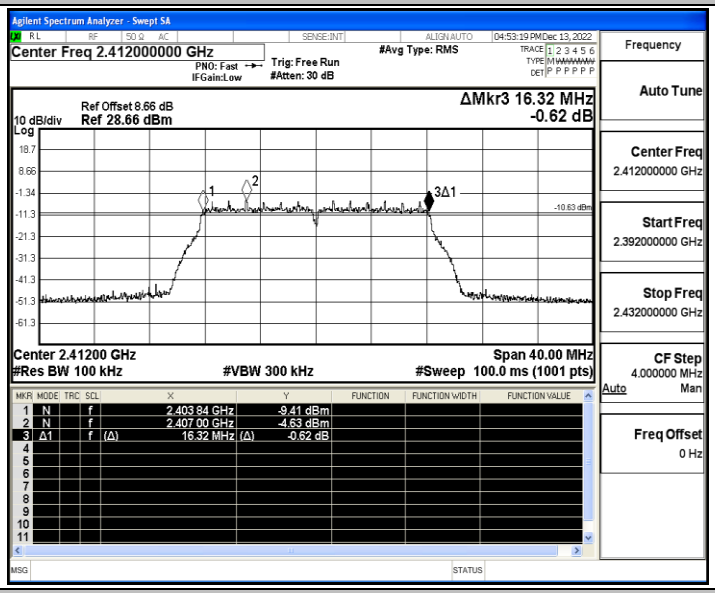
11B_Ant1_2437



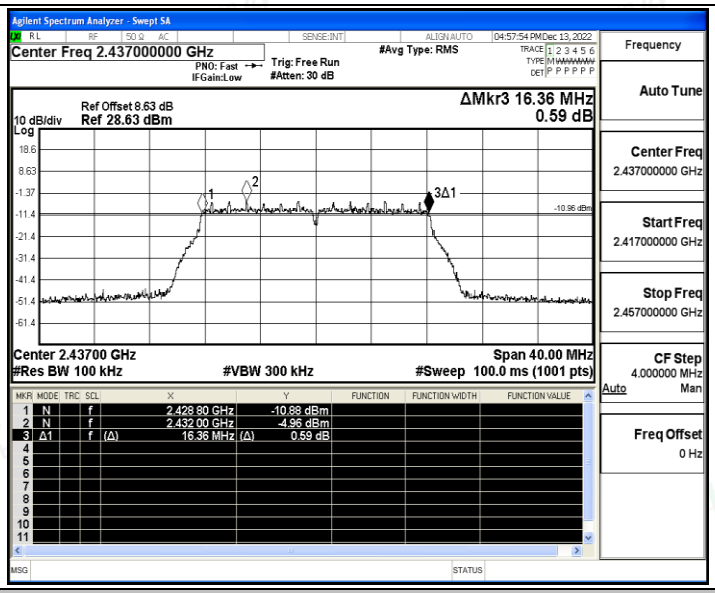
11B_Ant1_2462



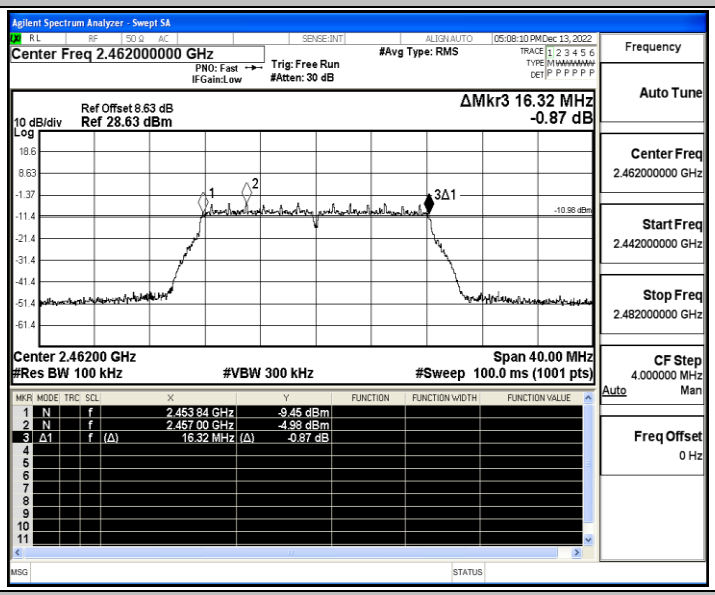
11G_Ant1_2412



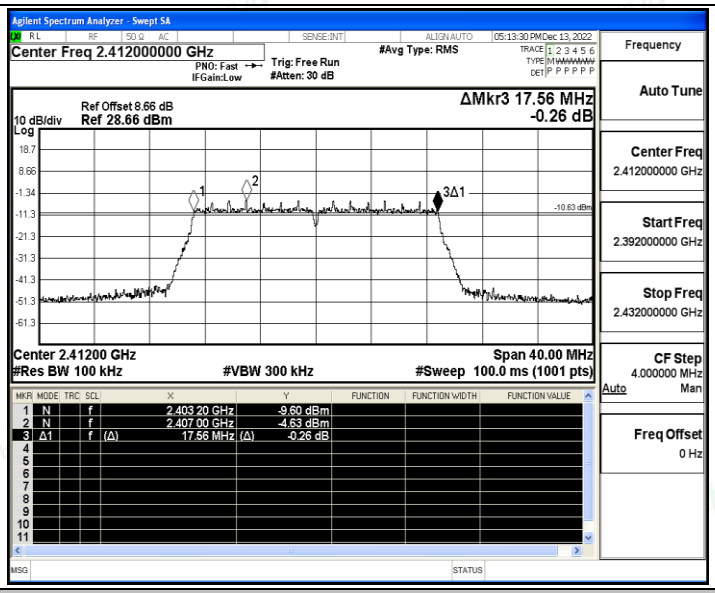
11G_Ant1_2437



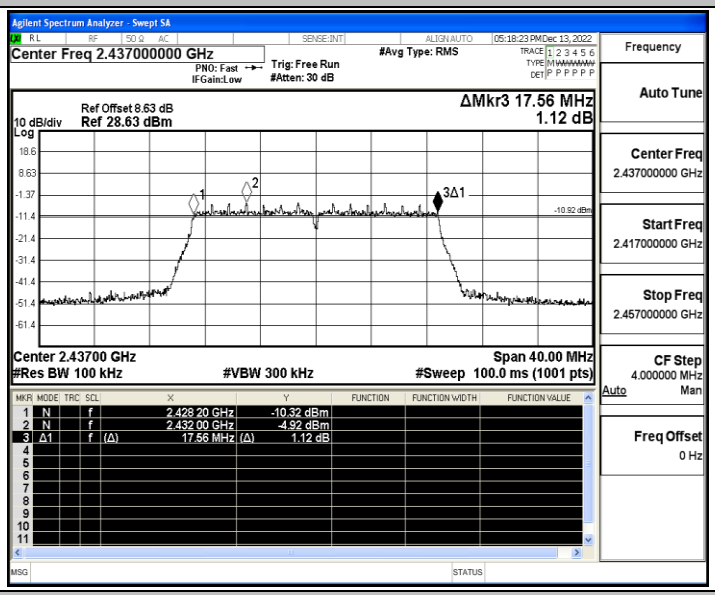
11G_Ant1_2462



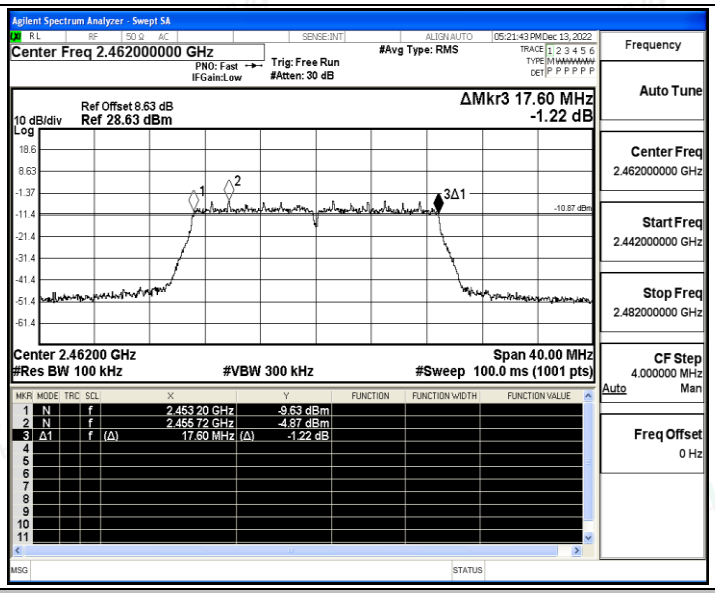
11N20SISO_Ant1_2412



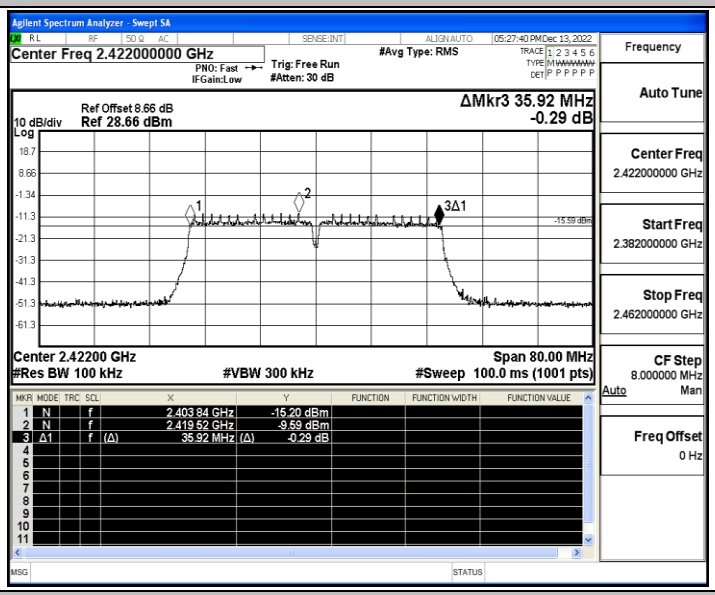
11N20SISO_Ant1_2437



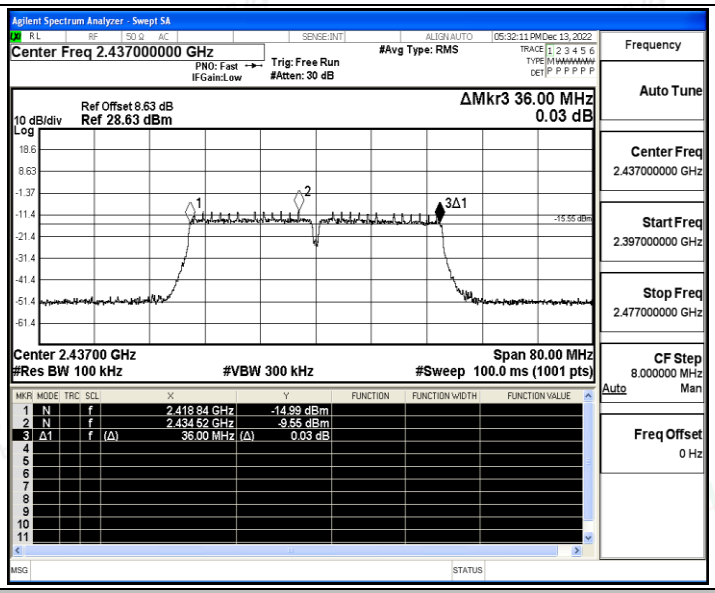
11N20SISO_Ant1_2462



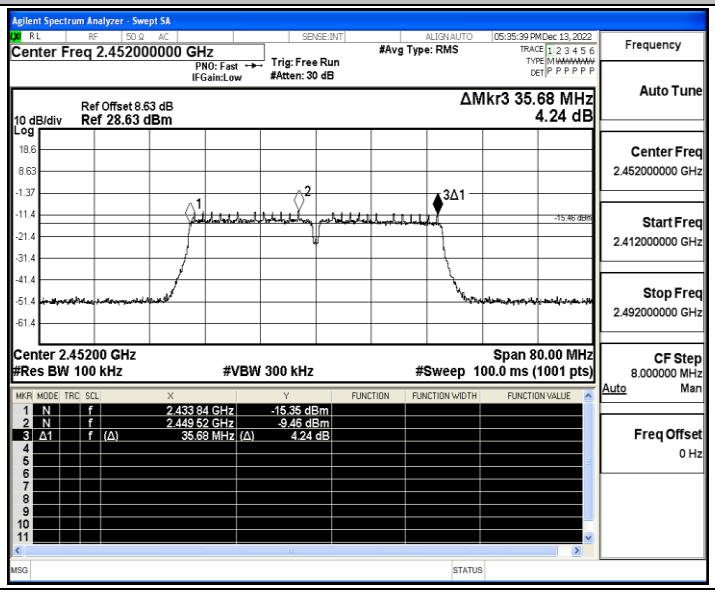
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



C.2 Maximum conducted output power

Test Result

TestMode	Antenna	Freq(MHz)	Peak Power[dBm]	Conducted Limit[dBm]	Verdict
11B	Ant1	2412	16.58	≤30.00	PASS
		2437	15.87	≤30.00	PASS
		2462	16.11	≤30.00	PASS
11G	Ant1	2412	14.76	≤30.00	PASS
		2437	14.41	≤30.00	PASS
		2462	14.45	≤30.00	PASS
11N20SISO	Ant1	2412	14.72	≤30.00	PASS
		2437	14.42	≤30.00	PASS
		2462	14.67	≤30.00	PASS
11N40SISO	Ant1	2422	12.75	≤30.00	PASS
		2437	12.73	≤30.00	PASS
		2452	12.74	≤30.00	PASS

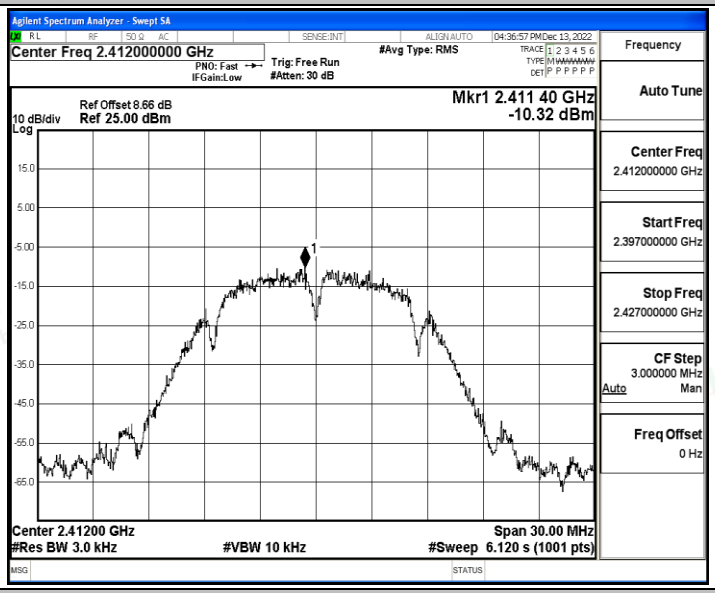
C.3 Maximum power spectral density

Test Result

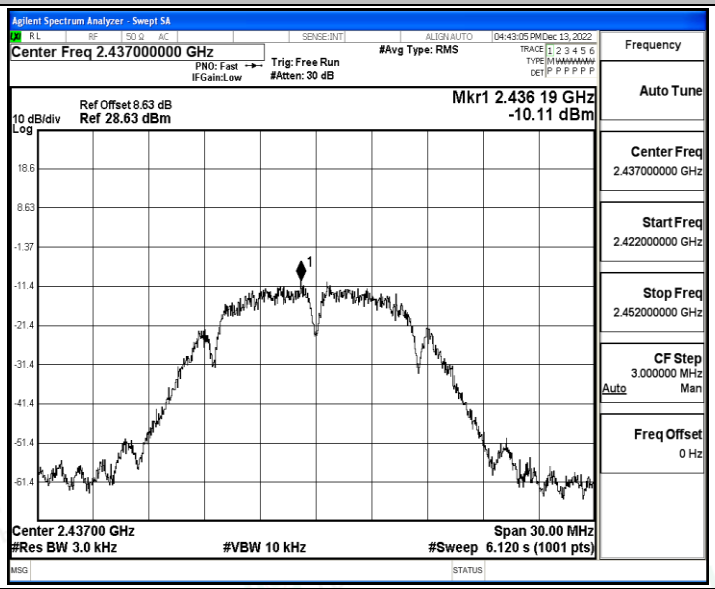
TestMode	Antenna	Freq(MHz)	Result [dBm/3-100kHz]	Limit [dBm/3kHz]	Verdict
11B	Ant1	2412	-10.32	≤8.00	PASS
		2437	-10.11	≤8.00	PASS
		2462	-8.06	≤8.00	PASS
11G	Ant1	2412	-17.94	≤8.00	PASS
		2437	-20.05	≤8.00	PASS
		2462	-19.44	≤8.00	PASS
11N20SISO	Ant1	2412	-19.43	≤8.00	PASS
		2437	-19.04	≤8.00	PASS
		2462	-19.59	≤8.00	PASS
11N40SISO	Ant1	2422	-24.14	≤8.00	PASS
		2437	-24.11	≤8.00	PASS
		2452	-22.93	≤8.00	PASS

Test Graphs

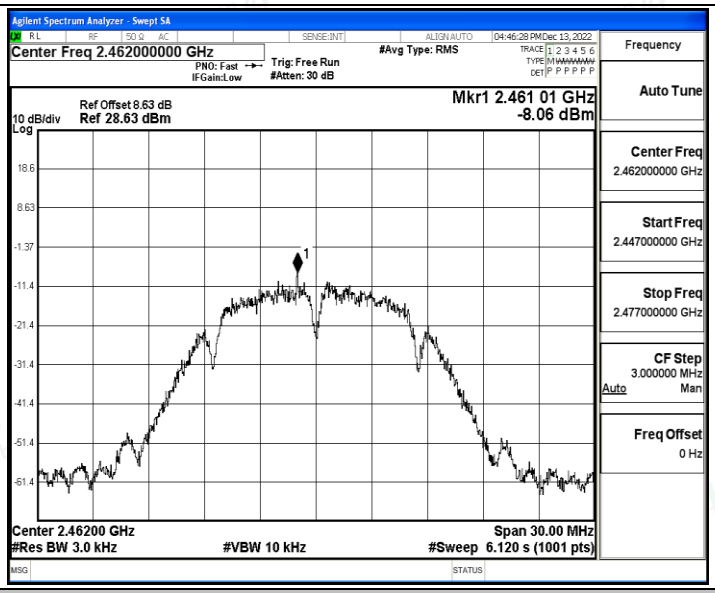
11B_Ant1_2412



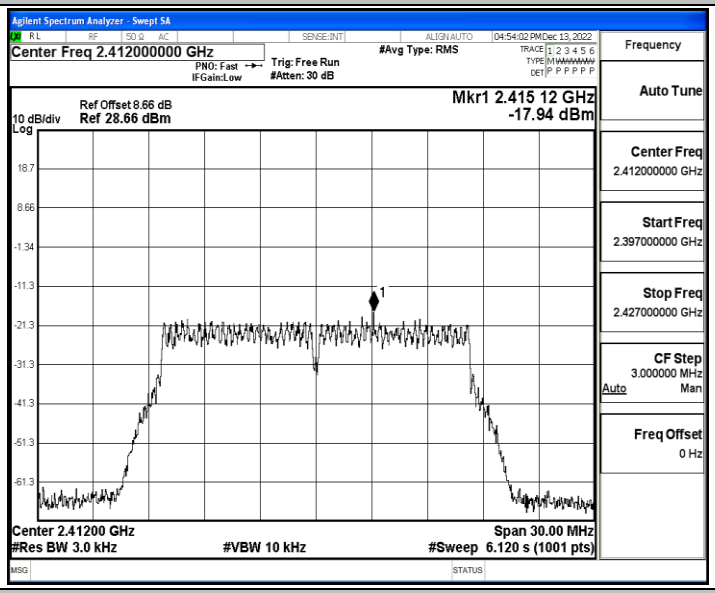
11B_Ant1_2437



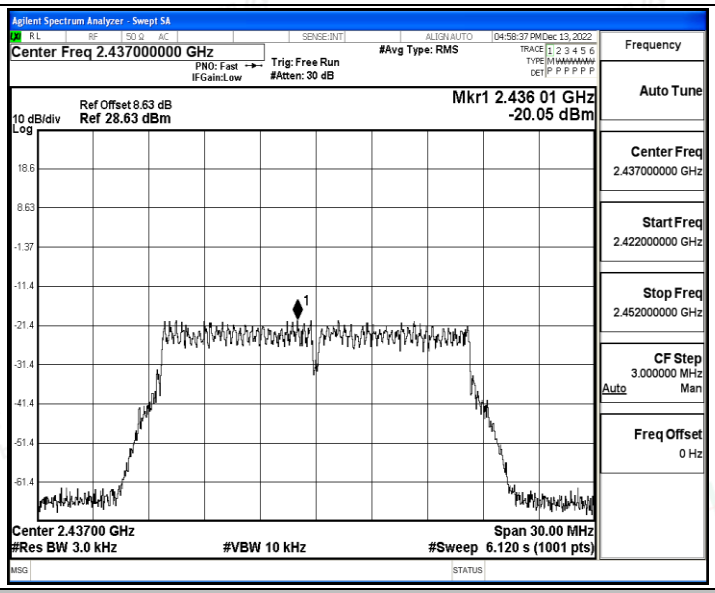
11B_Ant1_2462



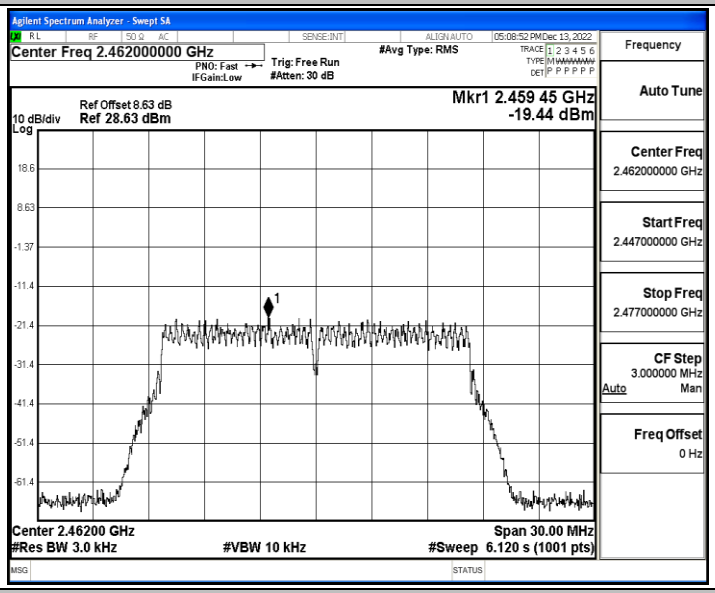
11G_Ant1_2412



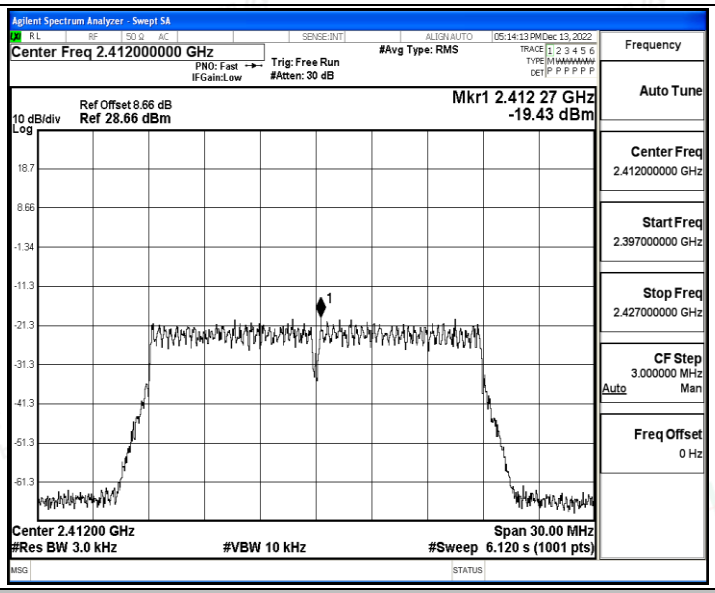
11G_Ant1_2437



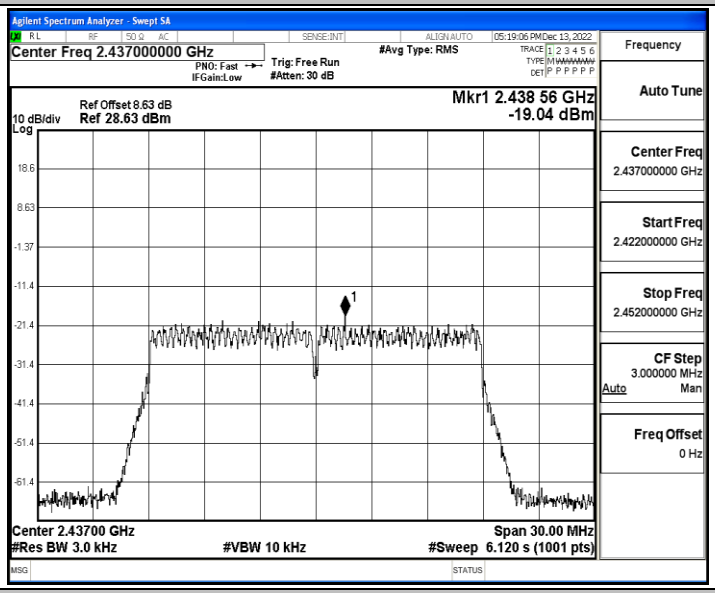
11G_Ant1_2462



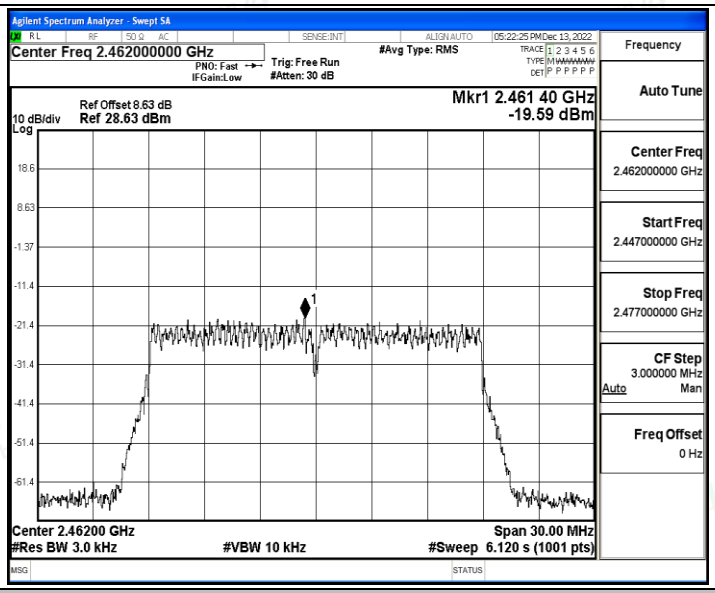
11N20SISO_Ant1_2412



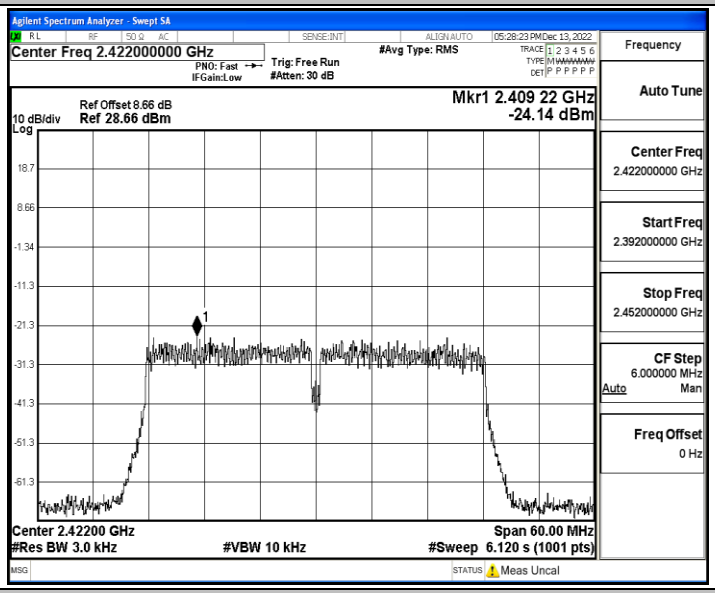
11N20SISO_Ant1_2437



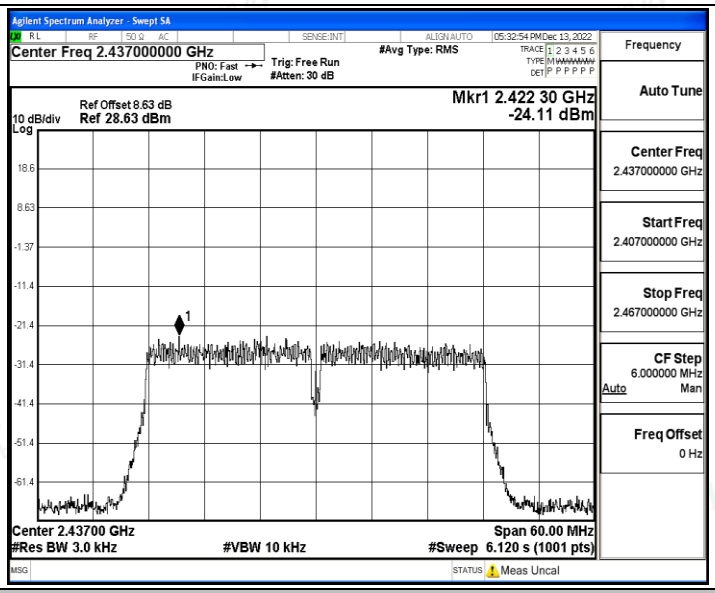
11N20SISO_Ant1_2462



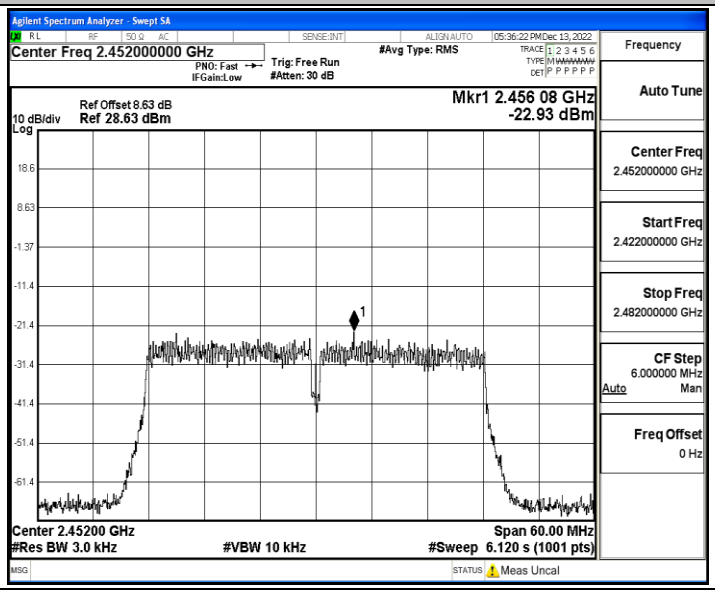
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



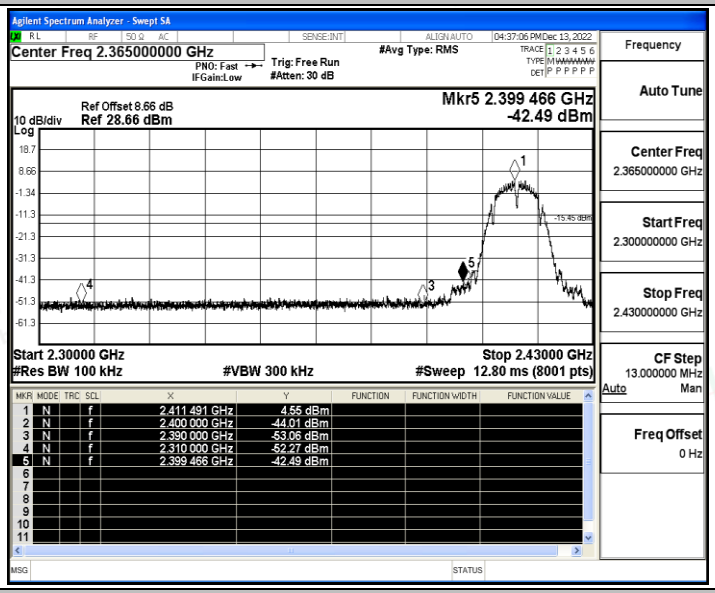
C.4 Band edge measurements

Test Result

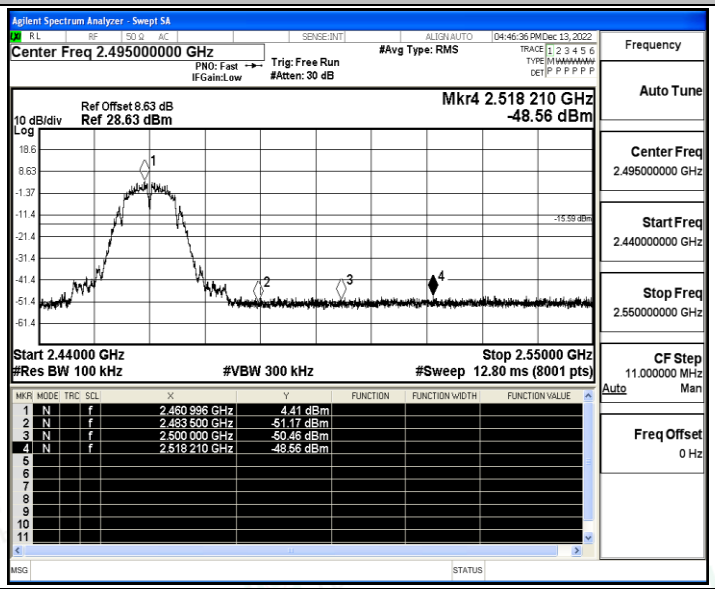
TestMode	Antenna	ChName	Freq(MHz)	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	4.55	-42.49	≤-15.45	PASS
		High	2462	4.41	-48.56	≤-15.59	PASS
11G	Ant1	Low	2412	-4.61	-47	≤-24.61	PASS
		High	2462	-5.38	-48.42	≤-25.38	PASS
11N20SISO	Ant1	Low	2412	-4.26	-45.41	≤-24.26	PASS
		High	2462	-4.45	-48.33	≤-24.45	PASS
11N40SISO	Ant1	Low	2422	-9.43	-49.03	≤-29.43	PASS
		High	2452	-9.41	-47.15	≤-29.41	PASS

Test Graphs

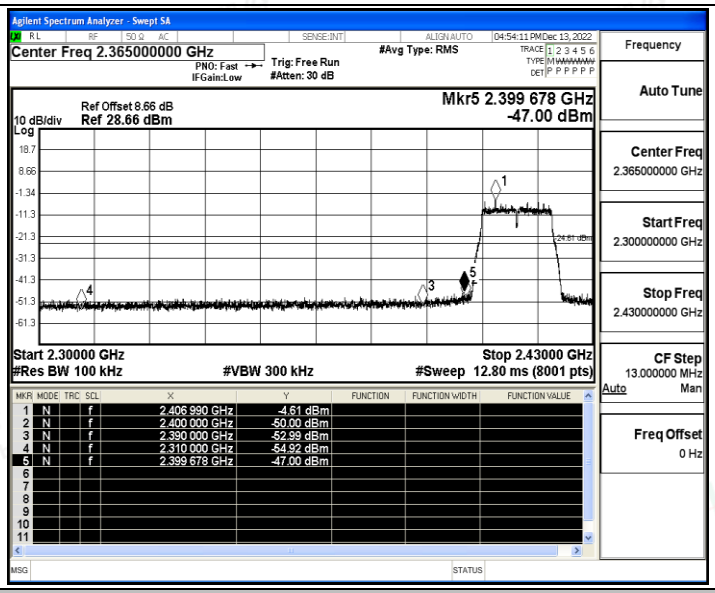
11B_Ant1_Low_2412



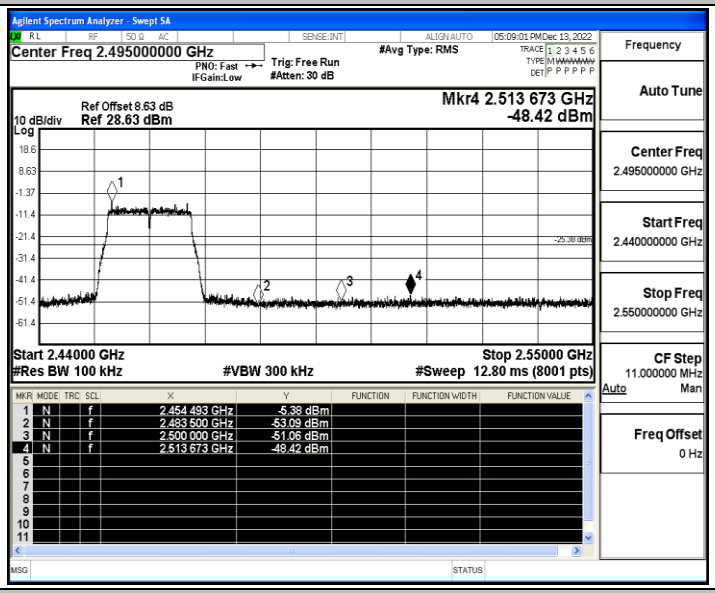
11B_Ant1_High_2462



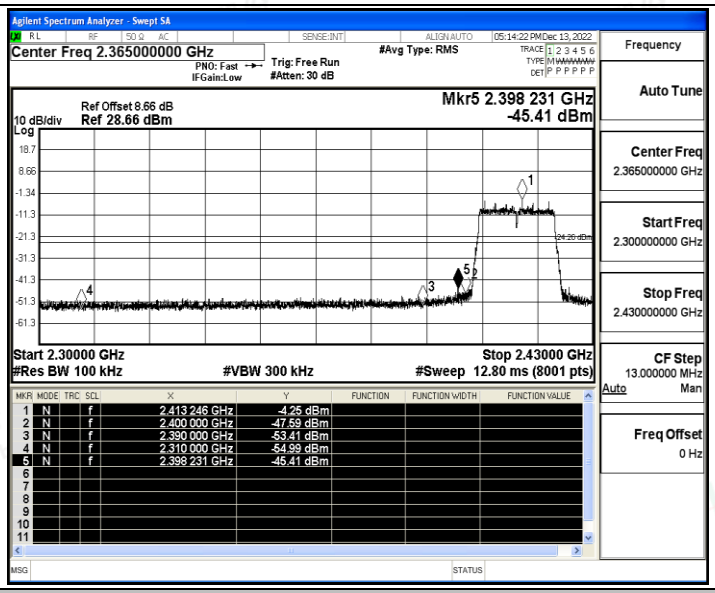
11G_Ant1_Low_2412



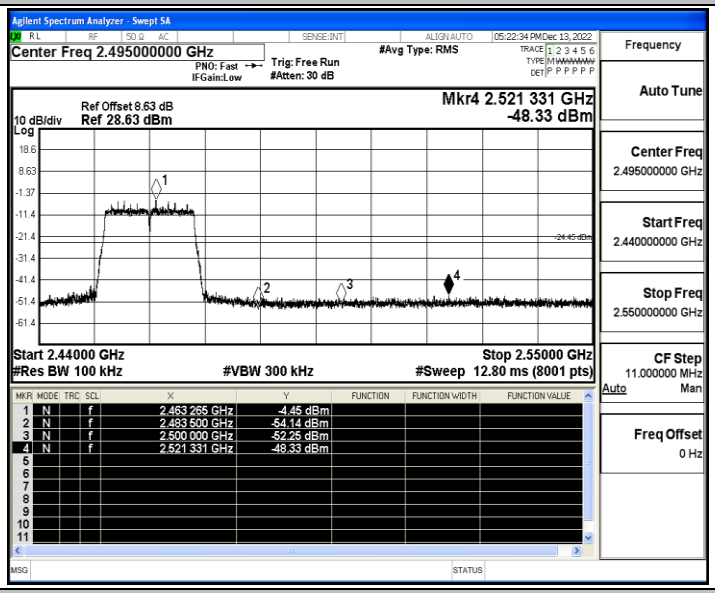
11G_Ant1_High_2462



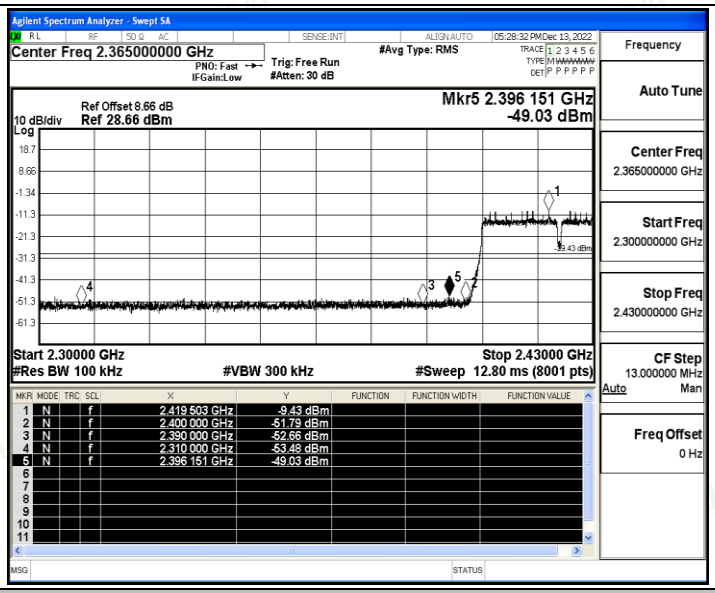
11N20SISO_Ant1_Low_2412



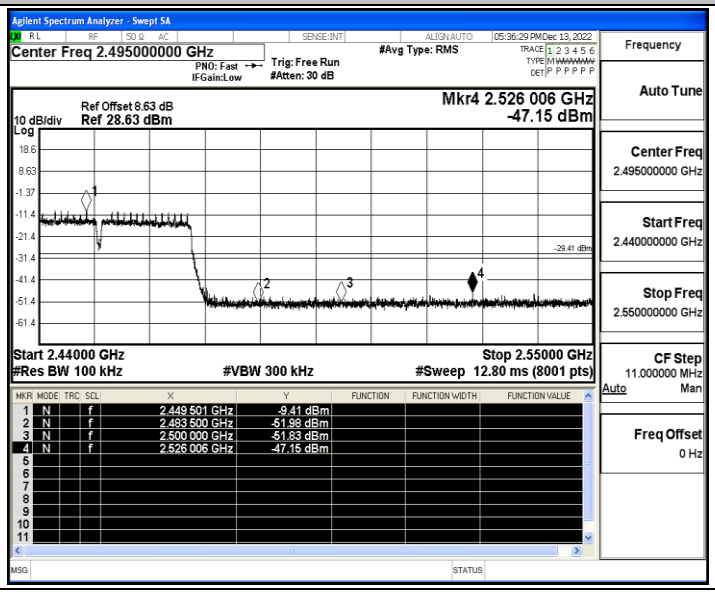
11N20SISO_Ant1_High_2462



11N40SISO_Ant1_Low_2422



11N40SISO_Ant1_High_2452



C.5 Conducted Spurious Emission

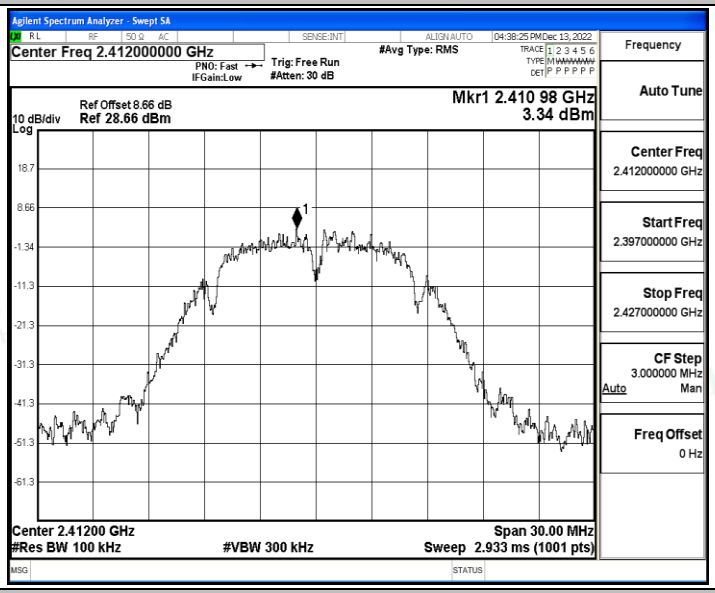
Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	3.34	3.34	---	PASS
			30~1000	3.34	-51.47	≤-16.66	PASS
			1000~26500	3.34	-45.74	≤-16.66	PASS
		2437	Reference	3.49	3.49	---	PASS
			30~1000	3.49	-50.39	≤-16.51	PASS
			1000~26500	3.49	-45.53	≤-16.51	PASS
		2462	Reference	2.86	2.86	---	PASS
			30~1000	2.86	-30.28	≤-17.14	PASS
			1000~26500	2.86	-40.18	≤-17.14	PASS
11G	Ant1	2412	Reference	-7.82	-7.82	---	PASS
			30~1000	-7.82	-33.09	≤-27.82	PASS
			1000~26500	-7.82	-46.18	≤-27.82	PASS
		2437	Reference	-5.16	-5.16	---	PASS
			30~1000	-5.16	-46.03	≤-25.16	PASS
			1000~26500	-5.16	-46.36	≤-25.16	PASS
		2462	Reference	-5.77	-5.77	---	PASS
			30~1000	-5.77	-48.14	≤-25.77	PASS
			1000~26500	-5.77	-46.27	≤-25.77	PASS
11N20SISO	Ant1	2412	Reference	-5.83	-5.83	---	PASS
			30~1000	-5.83	-47.92	≤-25.83	PASS
			1000~26500	-5.83	-45.62	≤-25.83	PASS
		2437	Reference	-6.59	-6.59	---	PASS
			30~1000	-6.59	-47.83	≤-26.59	PASS
			1000~26500	-6.59	-45.65	≤-26.59	PASS
		2462	Reference	-6.36	-6.36	---	PASS
			30~1000	-6.36	-50.38	≤-26.36	PASS
			1000~26500	-6.36	-46.12	≤-26.36	PASS
11N40SISO	Ant1	2422	Reference	-10.41	-10.41	---	PASS
			30~1000	-10.41	-46.81	≤-30.41	PASS
			1000~26500	-10.41	-45.93	≤-30.41	PASS
		2437	Reference	-9.78	-9.78	---	PASS
			30~1000	-9.78	-46.37	≤-29.78	PASS
			1000~26500	-9.78	-40.01	≤-29.78	PASS
		2452	Reference	-9.51	-9.51	---	PASS
			30~1000	-9.51	-48.2	≤-29.51	PASS

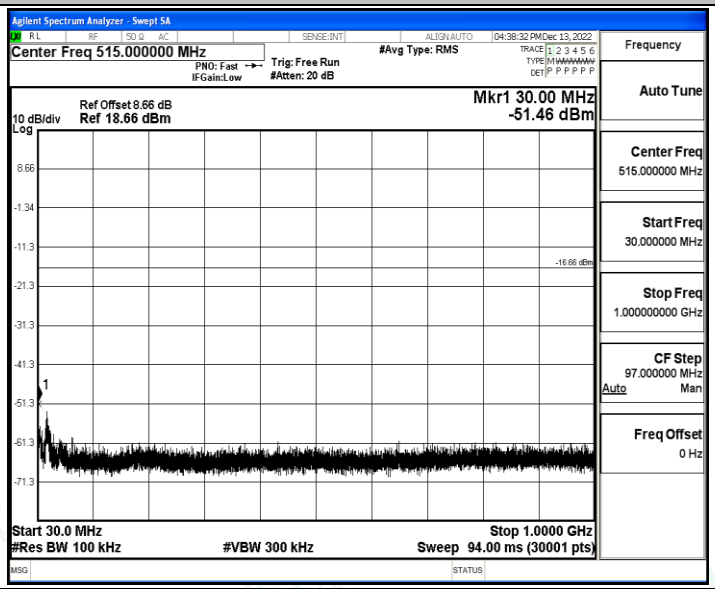
			1000~26500	-9.51	-46.24	≤-29.51	PASS

Test Graphs

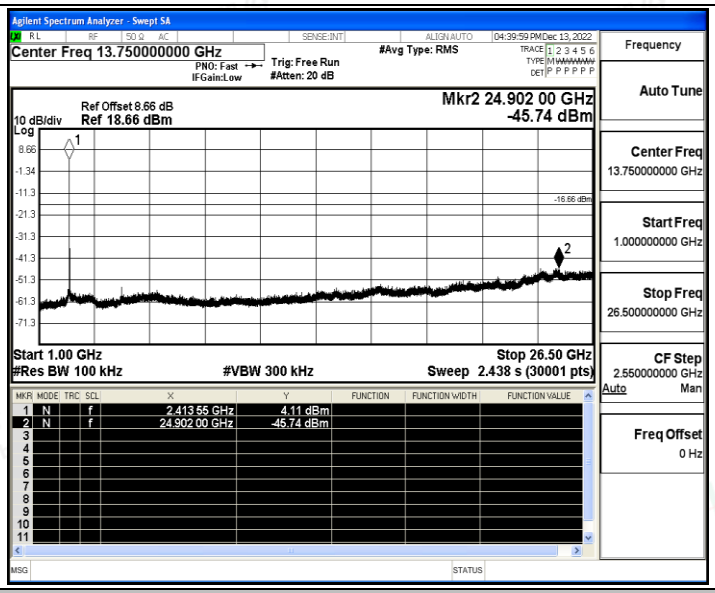
11B_Ant1_2412_0~Reference



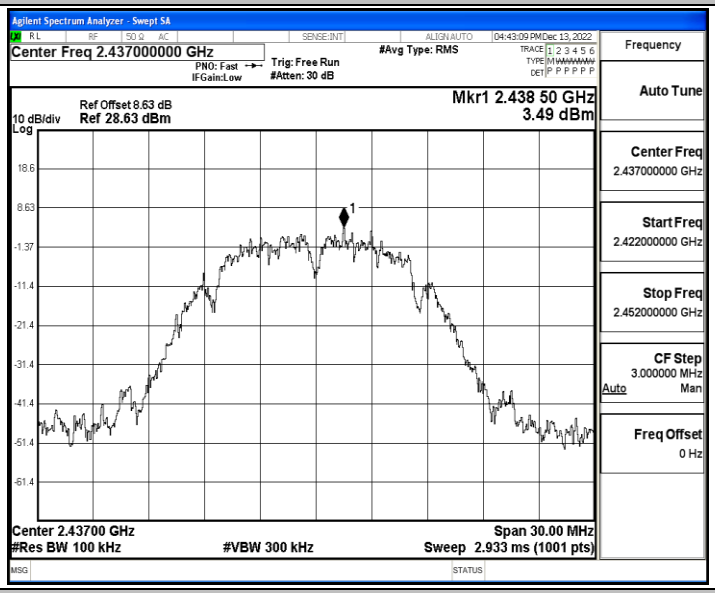
11B_Ant1_2412_30~1000



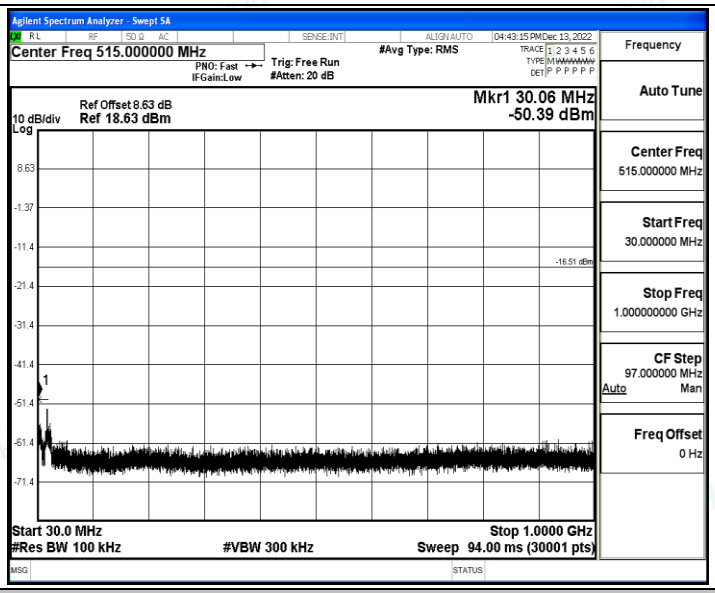
11B_Ant1_2412_1000~26500



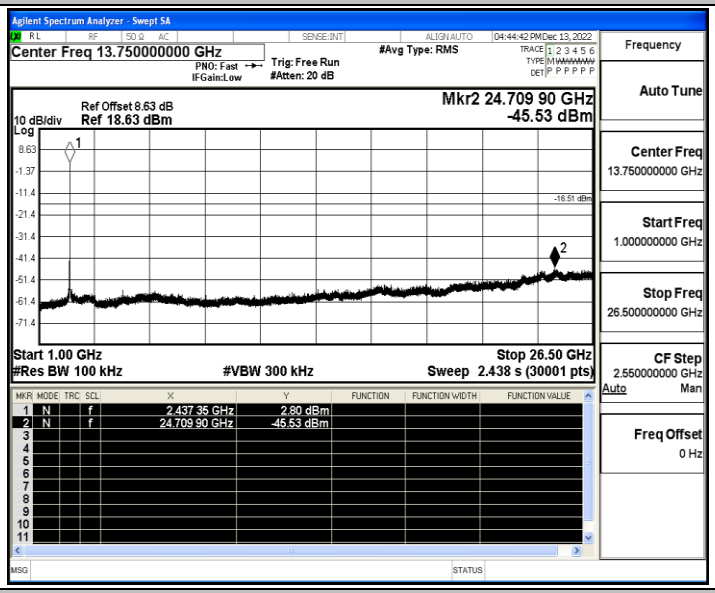
11B_Ant1_2437_0~Reference



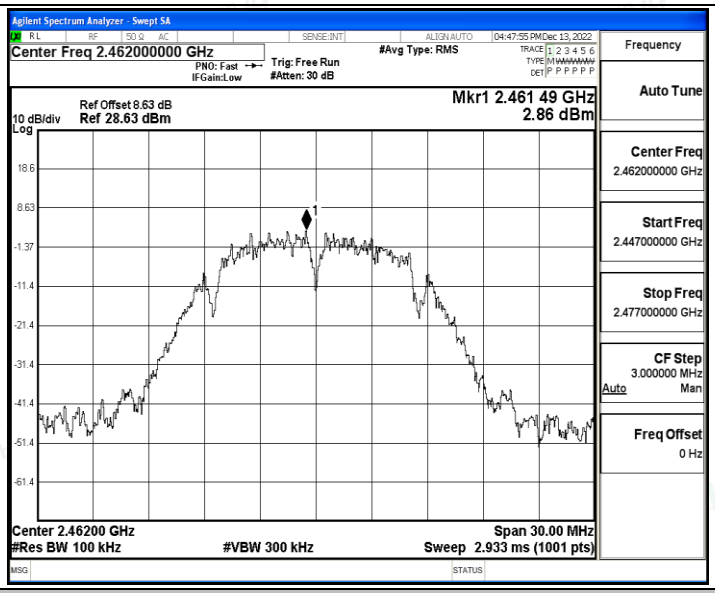
11B_Ant1_2437_30~1000



11B_Ant1_2437_1000~26500



11B_Ant1_2462_0~Reference



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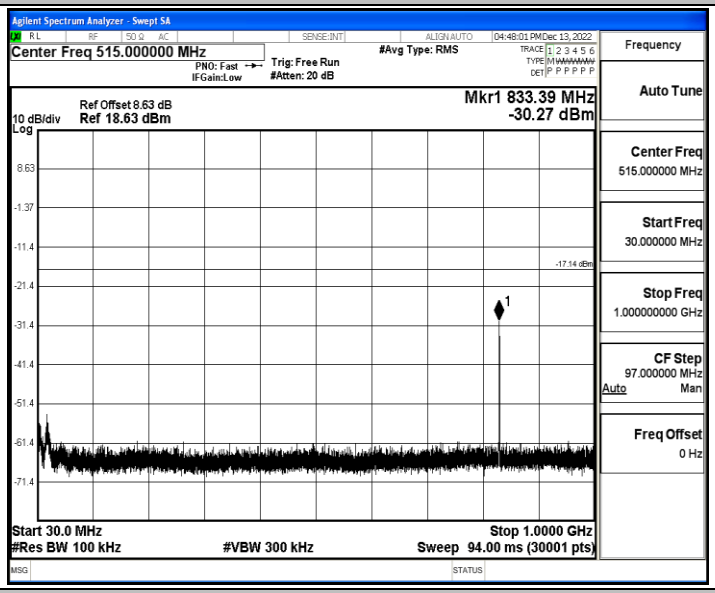

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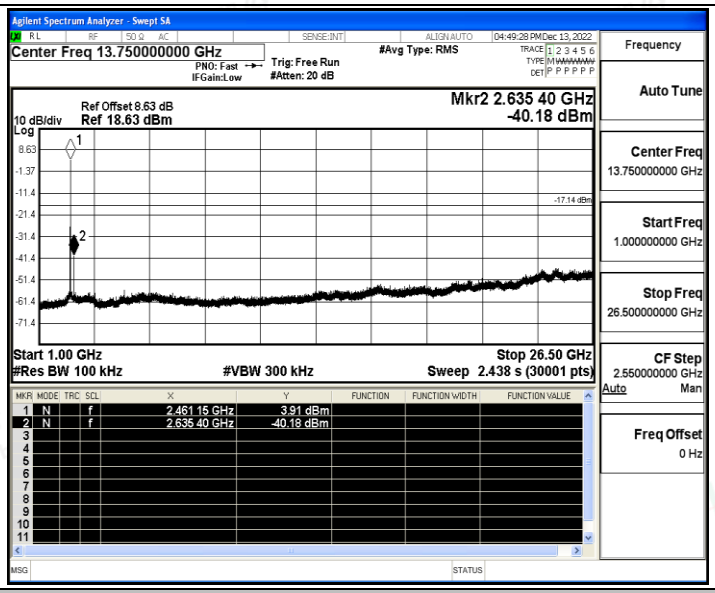

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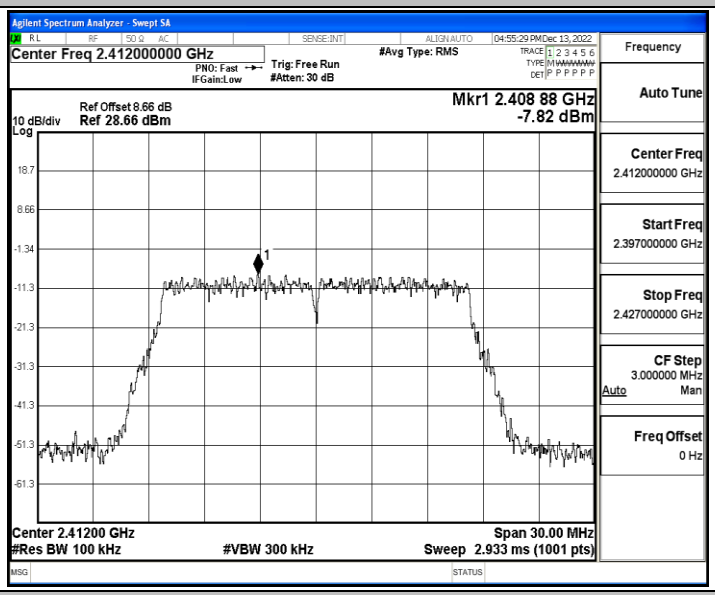

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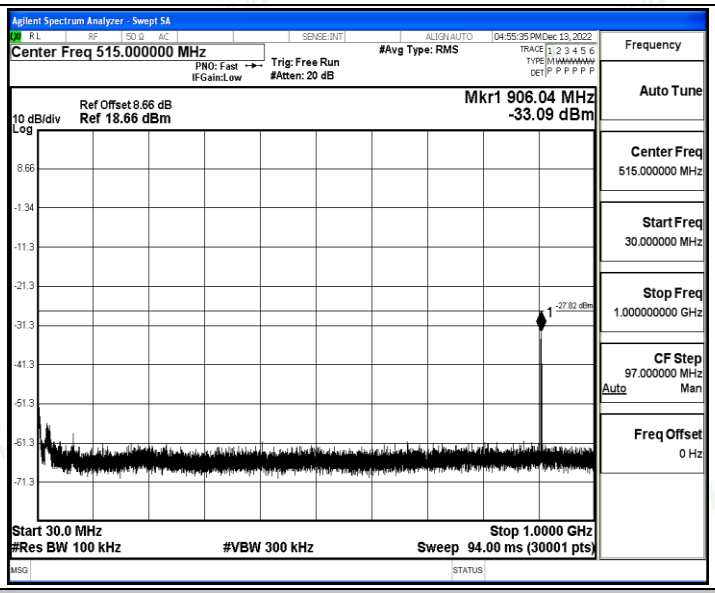

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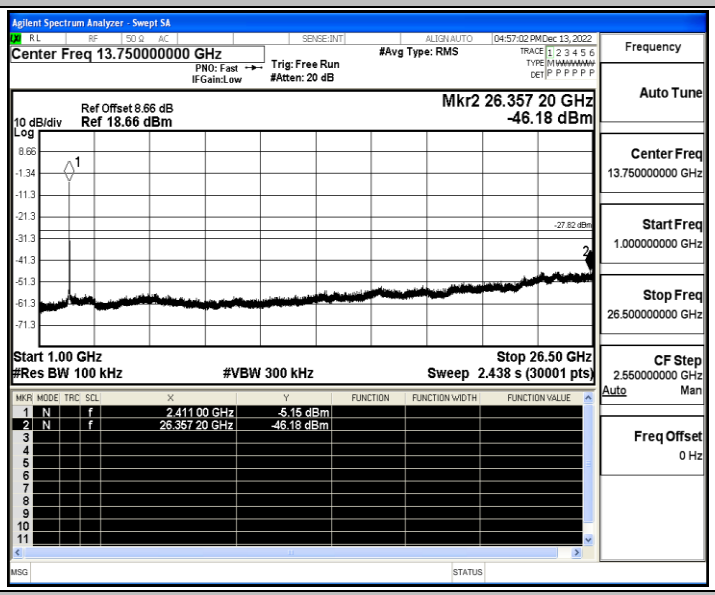

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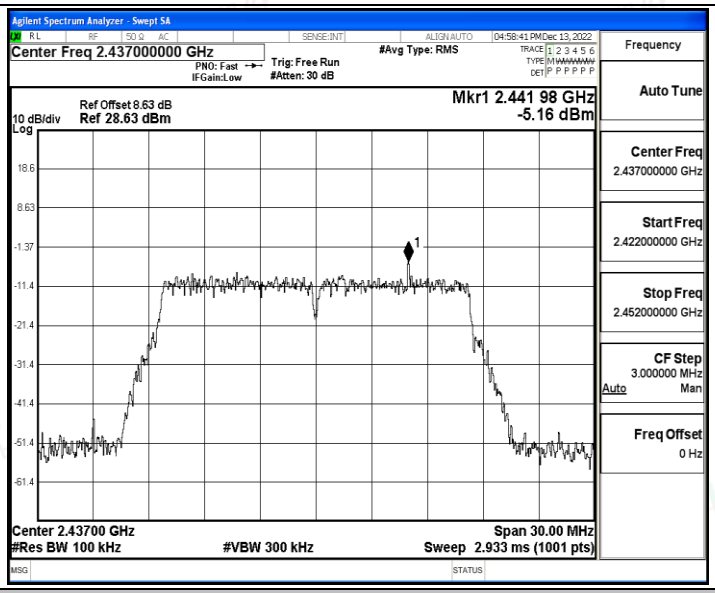

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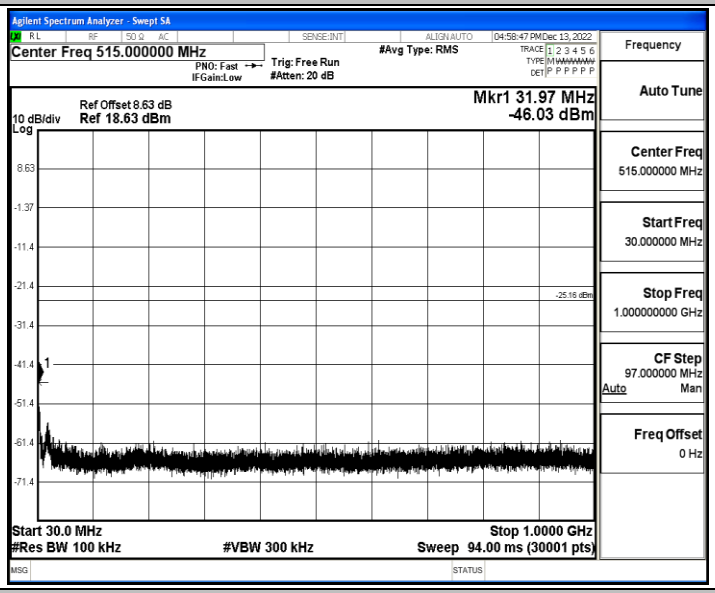

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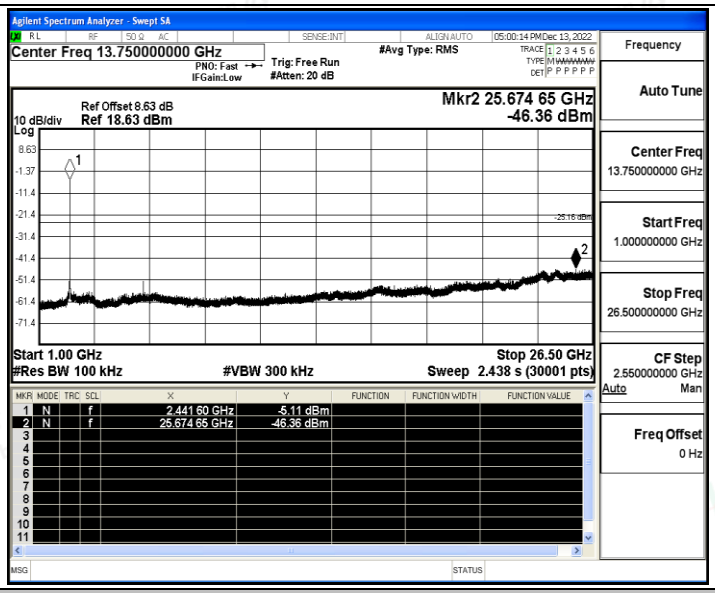

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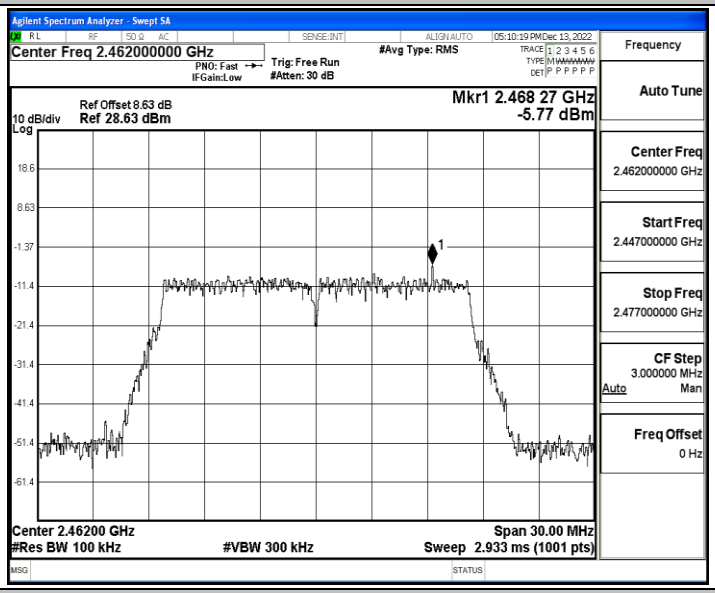

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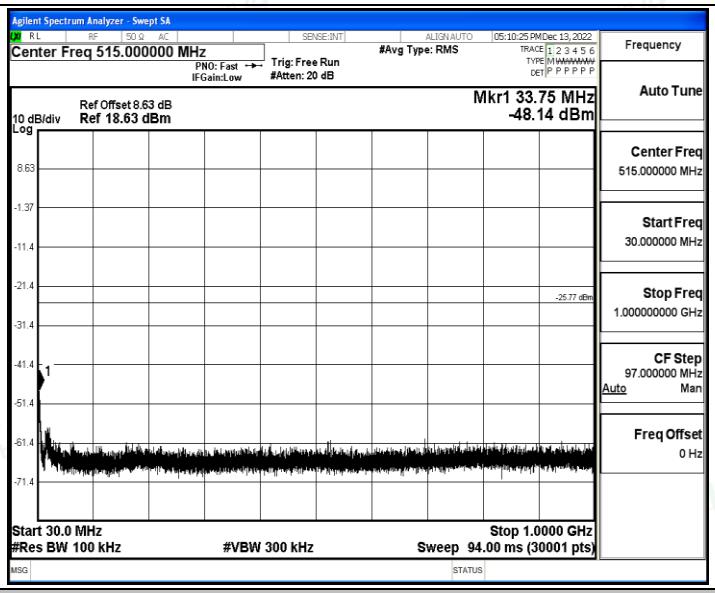

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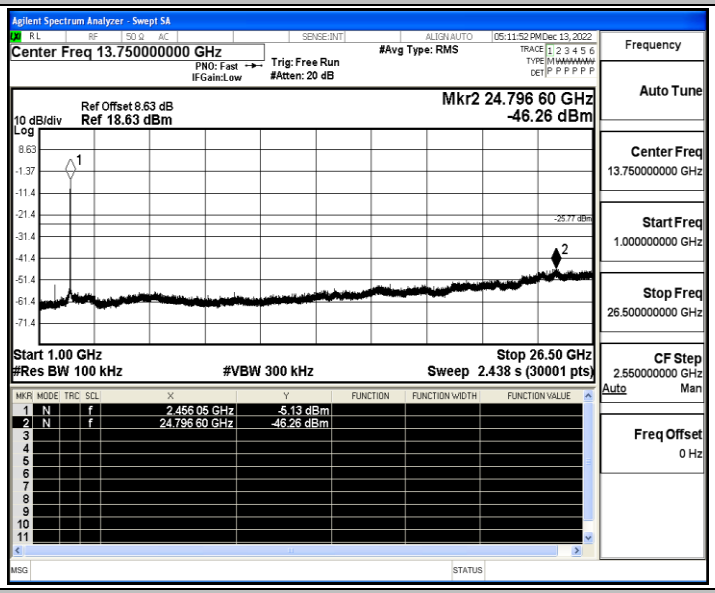

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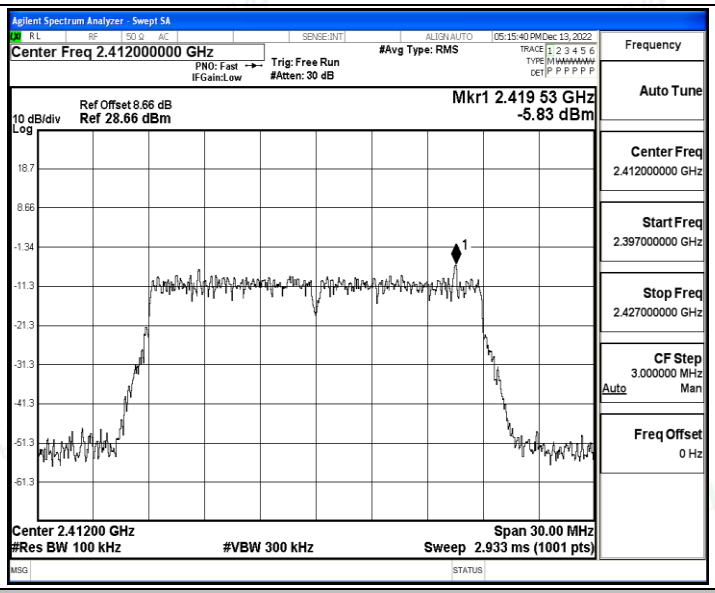

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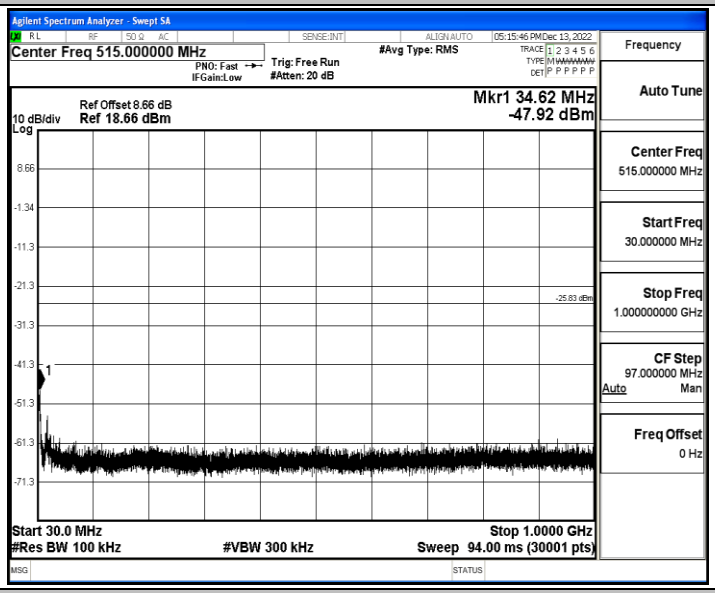

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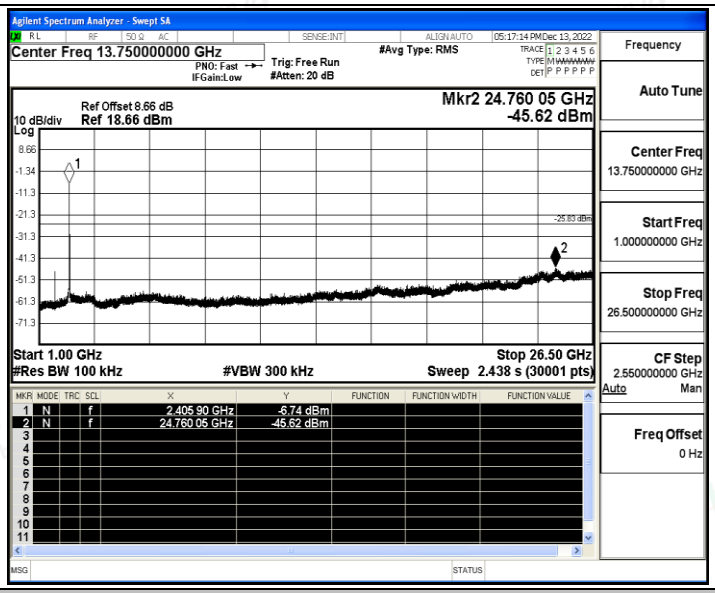

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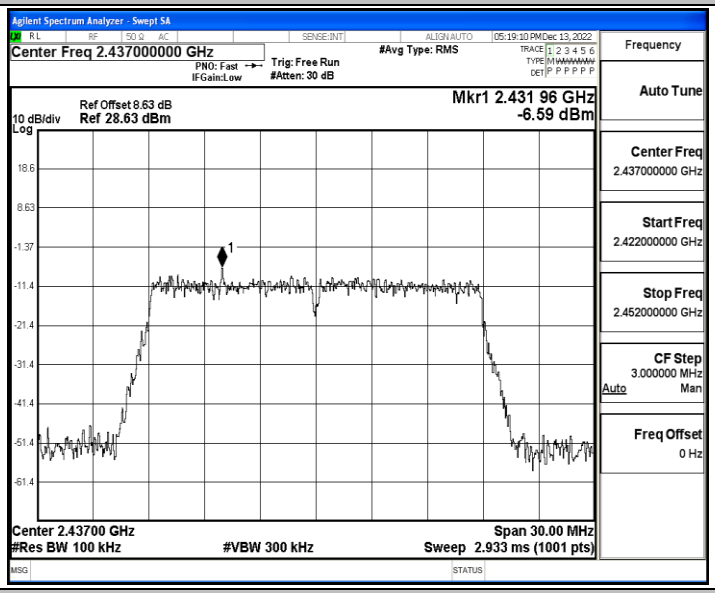

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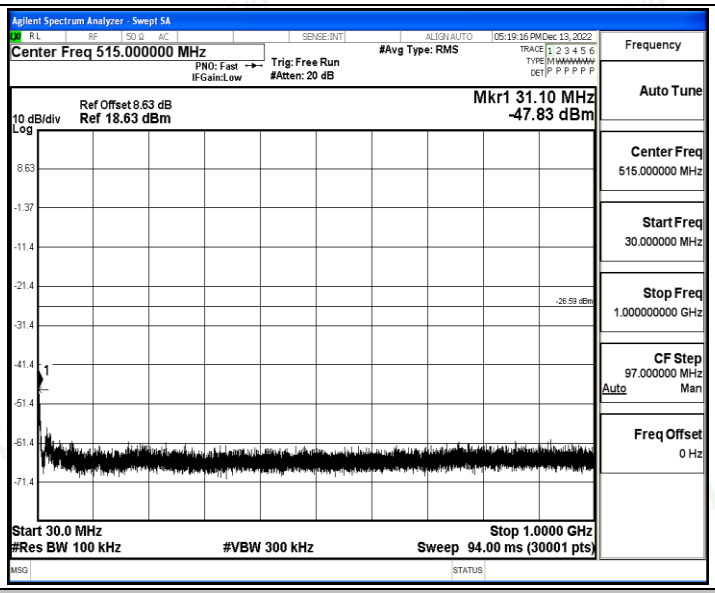

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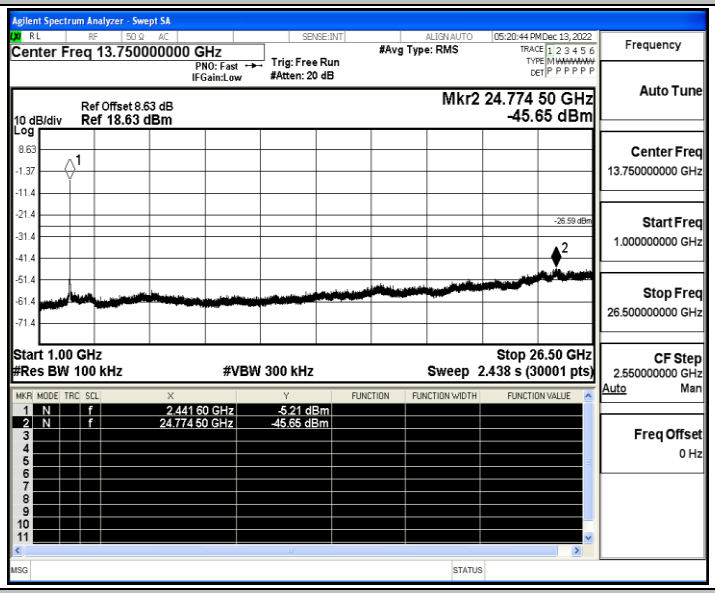

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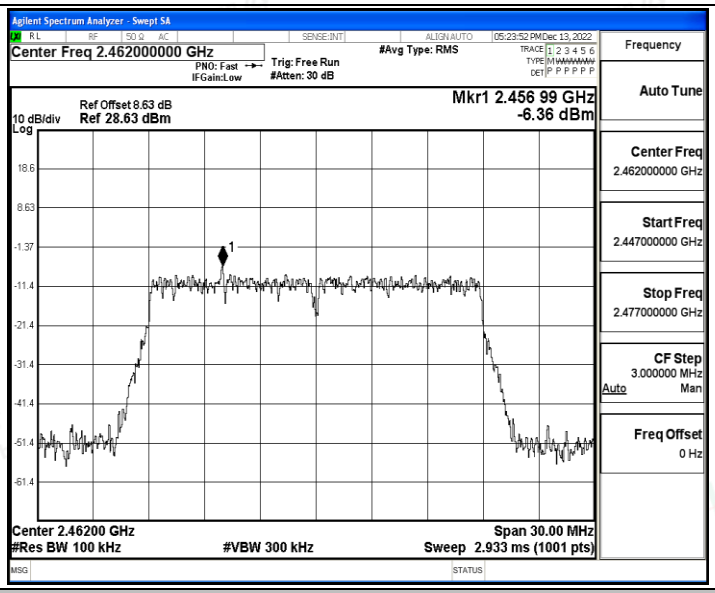

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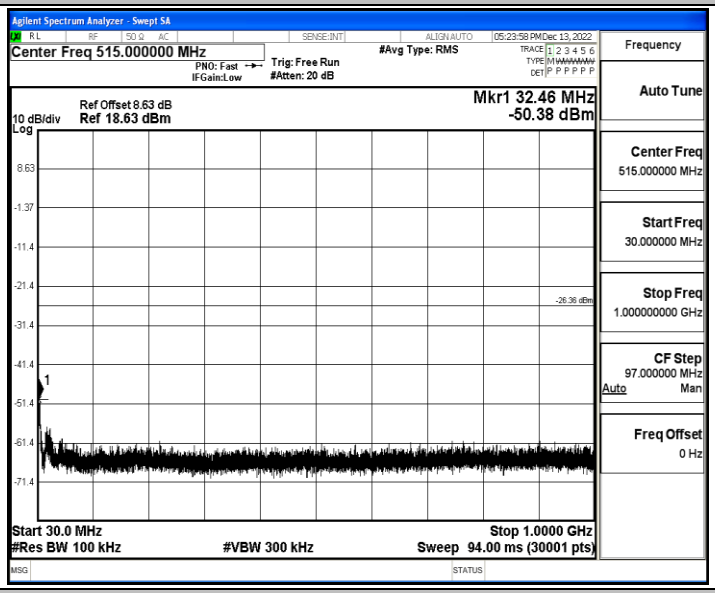

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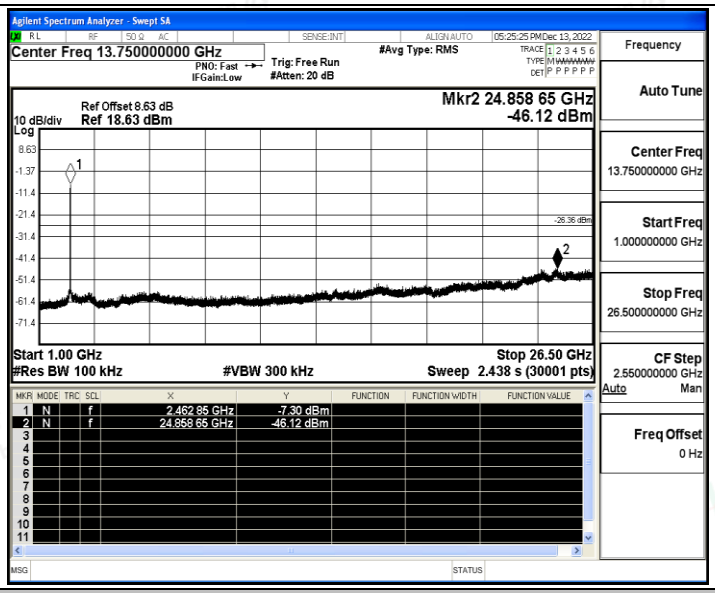

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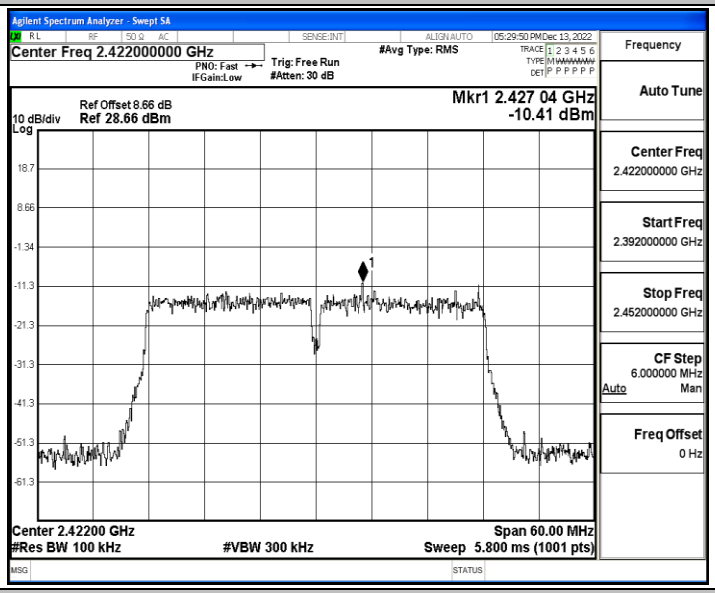

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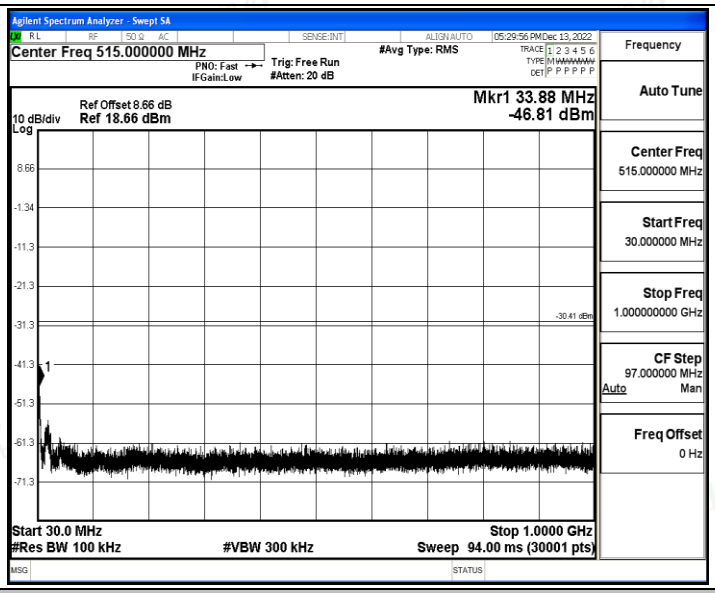

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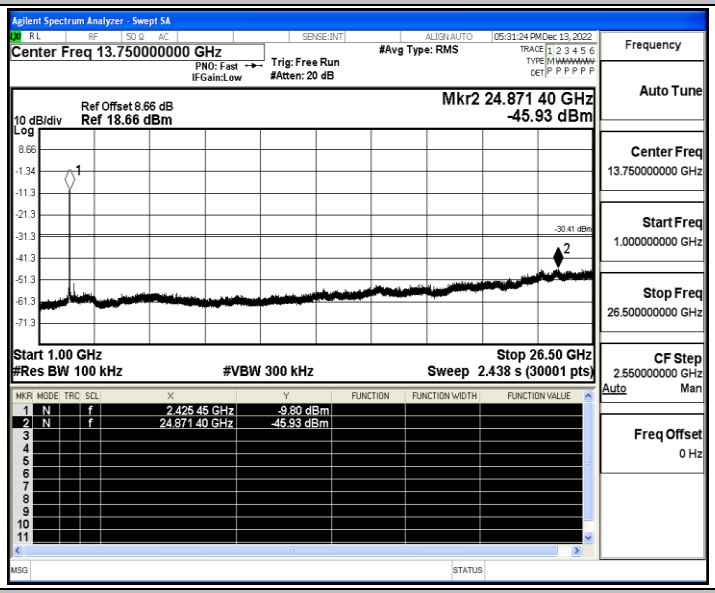

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