

Appendix Test Data

Report No.:	18220WC20274601	Test Sample No.:	1-2-2
Start Test Date:	2022.12.5	Finish Test Date:	2022.1.3
Test Engineer:	<i>Tony He</i>	Auditor:	<i>Edward Pan</i>
Temperature:	24.3°C	Relative Humidity:	41 %
Pressure:	1012 hPa		

Appendix A: DTS Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	9.040	2407.480	2416.520	≥0.5	PASS
	Ant2	2412	9.080	2407.480	2416.560	≥0.5	PASS
	Ant3	2412	8.600	2407.960	2416.560	≥0.5	PASS
	Ant1	2437	9.120	2432.440	2441.560	≥0.5	PASS
	Ant2	2437	9.080	2432.480	2441.560	≥0.5	PASS
	Ant3	2437	8.640	2432.440	2441.080	≥0.5	PASS
	Ant1	2462	9.480	2457.040	2466.520	≥0.5	PASS
	Ant2	2462	9.560	2457.000	2466.560	≥0.5	PASS
	Ant3	2462	9.040	2457.480	2466.520	≥0.5	PASS
11G	Ant1	2412	16.360	2403.840	2420.200	≥0.5	PASS
	Ant2	2412	16.360	2403.840	2420.200	≥0.5	PASS
	Ant3	2412	16.360	2403.840	2420.200	≥0.5	PASS
	Ant1	2437	16.320	2428.840	2445.160	≥0.5	PASS
	Ant2	2437	16.320	2428.840	2445.160	≥0.5	PASS
	Ant3	2437	16.360	2428.800	2445.160	≥0.5	PASS
	Ant1	2462	16.320	2453.840	2470.160	≥0.5	PASS
	Ant2	2462	16.320	2453.840	2470.160	≥0.5	PASS
	Ant3	2462	16.400	2453.760	2470.160	≥0.5	PASS
11N20	Ant1	2412	17.560	2403.240	2420.800	≥0.5	PASS
	Ant2	2412	17.560	2403.240	2420.800	≥0.5	PASS
	Ant3	2412	17.600	2403.200	2420.800	≥0.5	PASS
	Ant1	2437	17.600	2428.200	2445.800	≥0.5	PASS

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	Ant2	2437	17.560	2428.200	2445.760	≥0.5	PASS
	Ant3	2437	17.600	2428.200	2445.800	≥0.5	PASS
	Ant1	2462	17.600	2453.200	2470.800	≥0.5	PASS
	Ant2	2462	17.560	2453.200	2470.760	≥0.5	PASS
	Ant3	2462	17.600	2453.200	2470.800	≥0.5	PASS
11N40	Ant1	2422	35.460	2404.240	2439.700	≥0.5	PASS
	Ant2	2422	35.340	2404.420	2439.760	≥0.5	PASS
	Ant3	2422	35.820	2404.120	2439.940	≥0.5	PASS
	Ant1	2437	35.640	2418.880	2454.520	≥0.5	PASS
	Ant2	2437	35.460	2419.120	2454.580	≥0.5	PASS
	Ant3	2437	35.340	2419.240	2454.580	≥0.5	PASS
	Ant1	2452	35.700	2433.880	2469.580	≥0.5	PASS
	Ant2	2452	35.700	2433.880	2469.580	≥0.5	PASS
	Ant3	2452	35.880	2433.880	2469.760	≥0.5	PASS

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Test Graphs

11B_Ant1_2412



11B_Ant2_2412



11B_Ant3_2412

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11B_Ant1_2437



11B_Ant2_2437

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11G_Ant3_2412



11G_Ant1_2437

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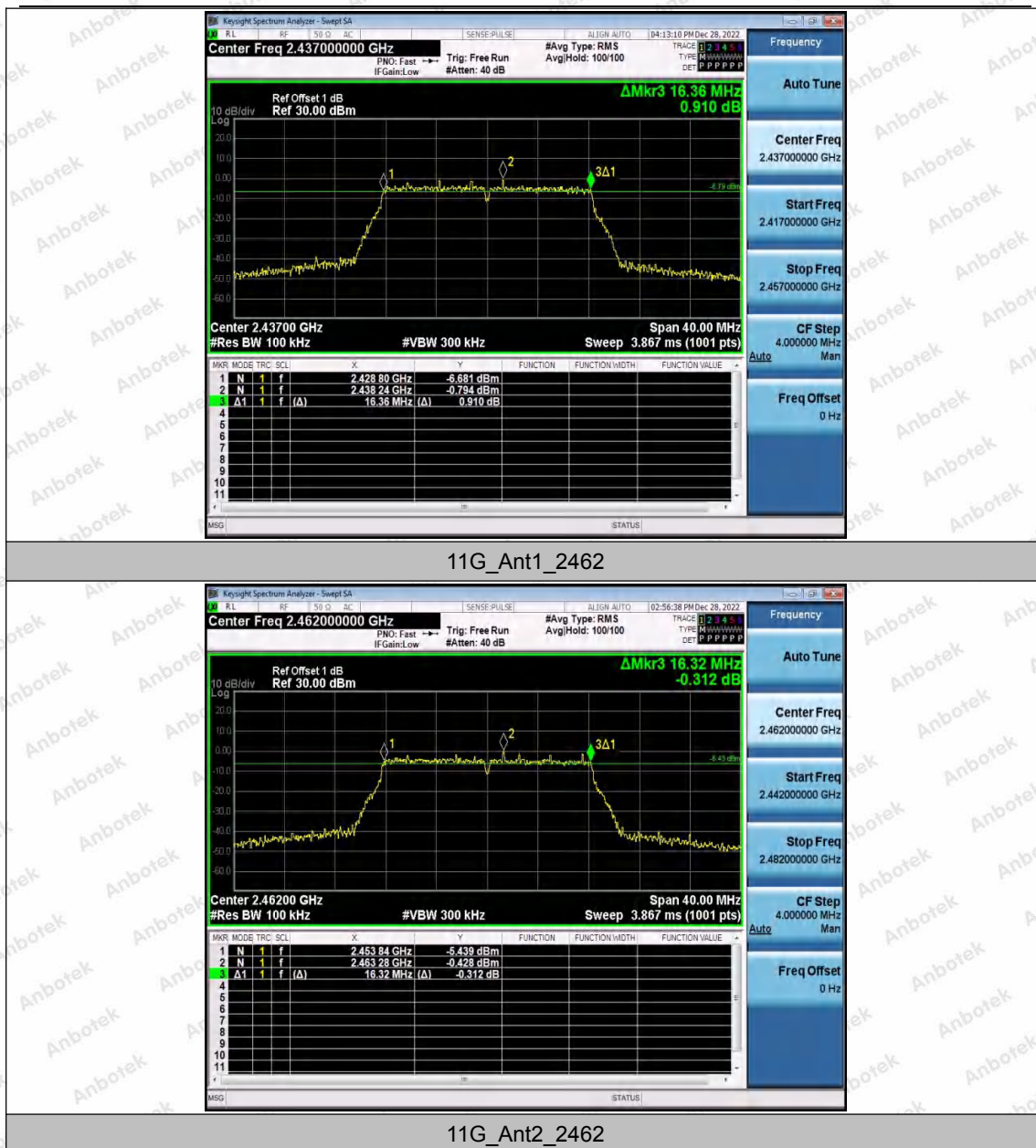


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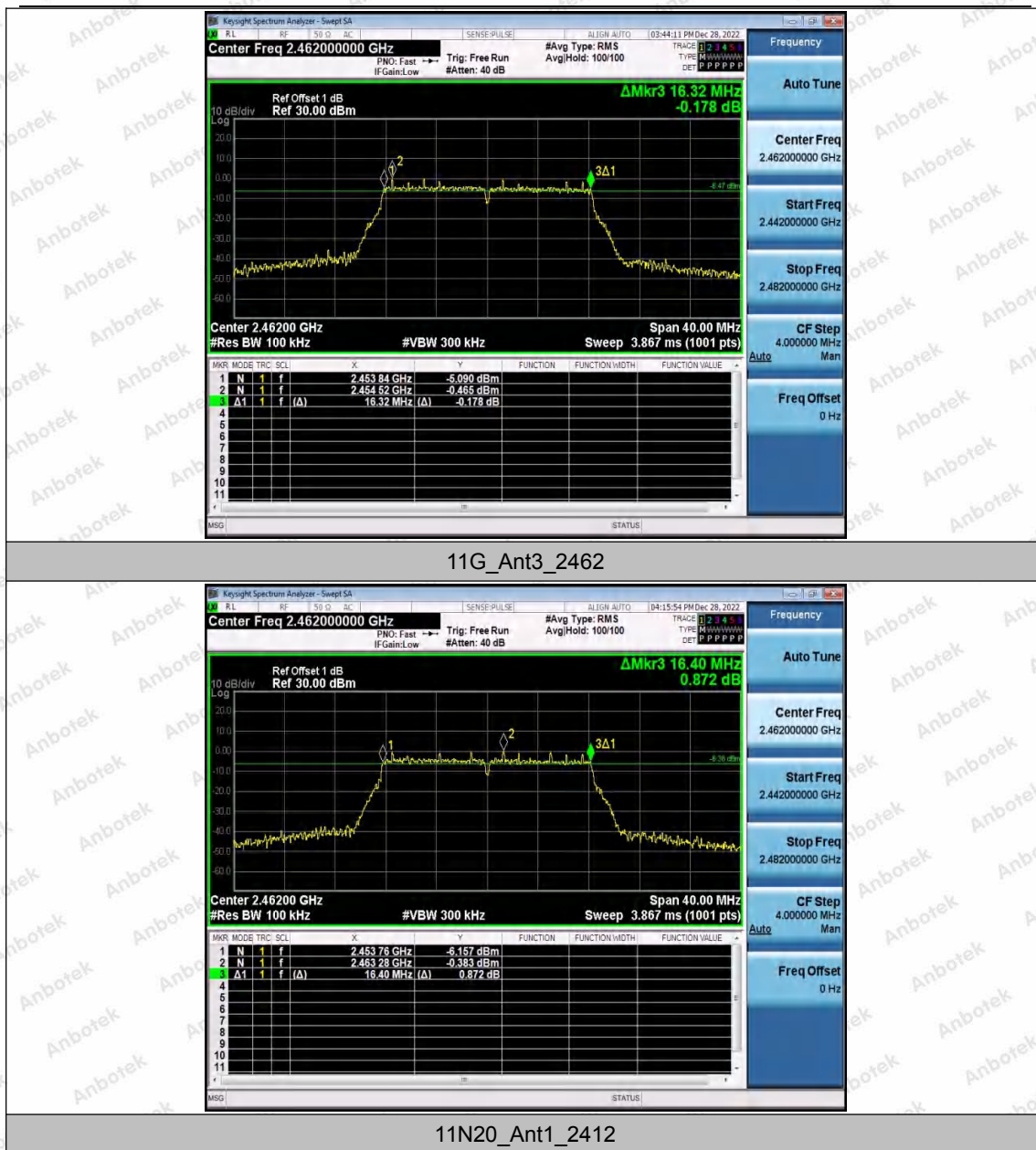
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11N20_Ant2_2412



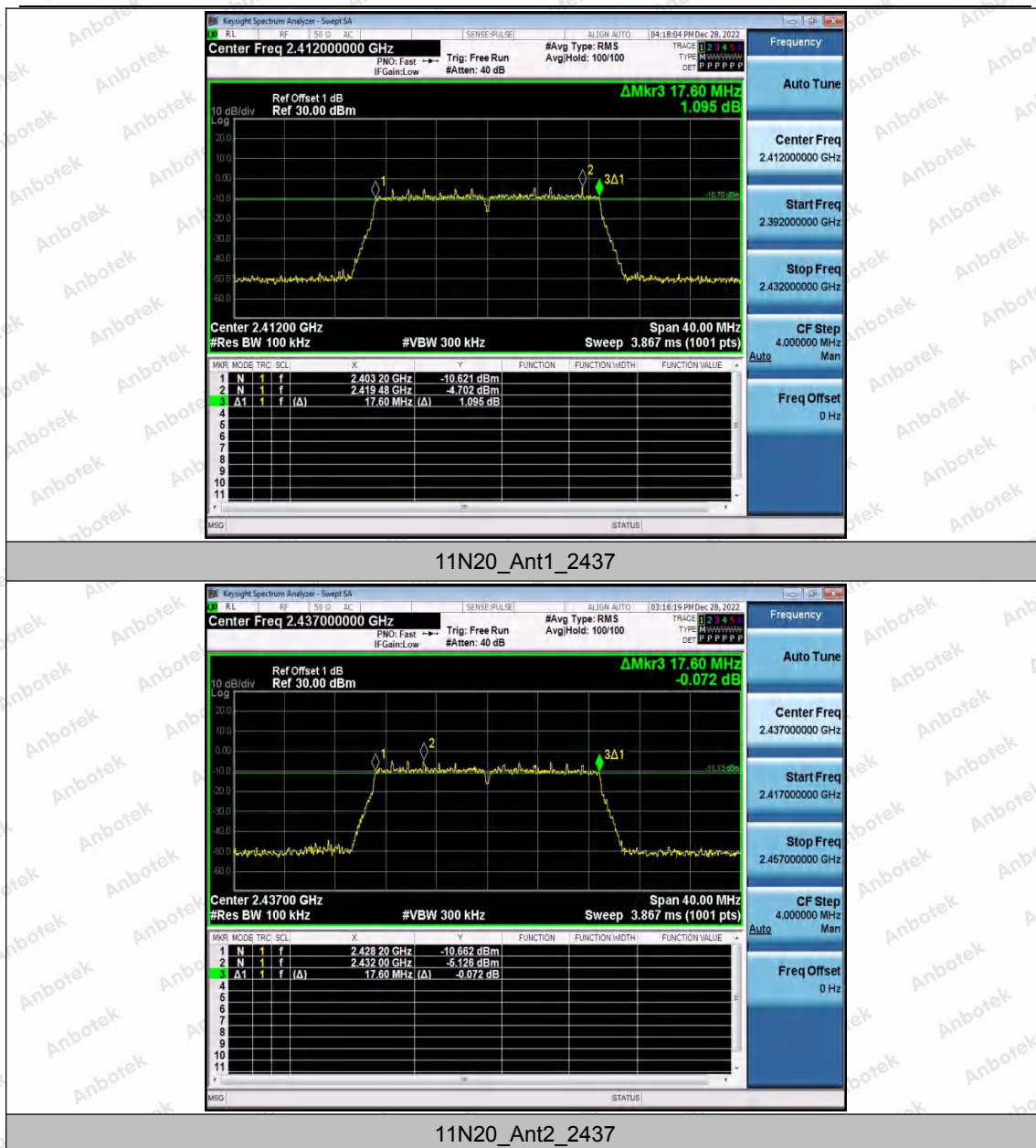
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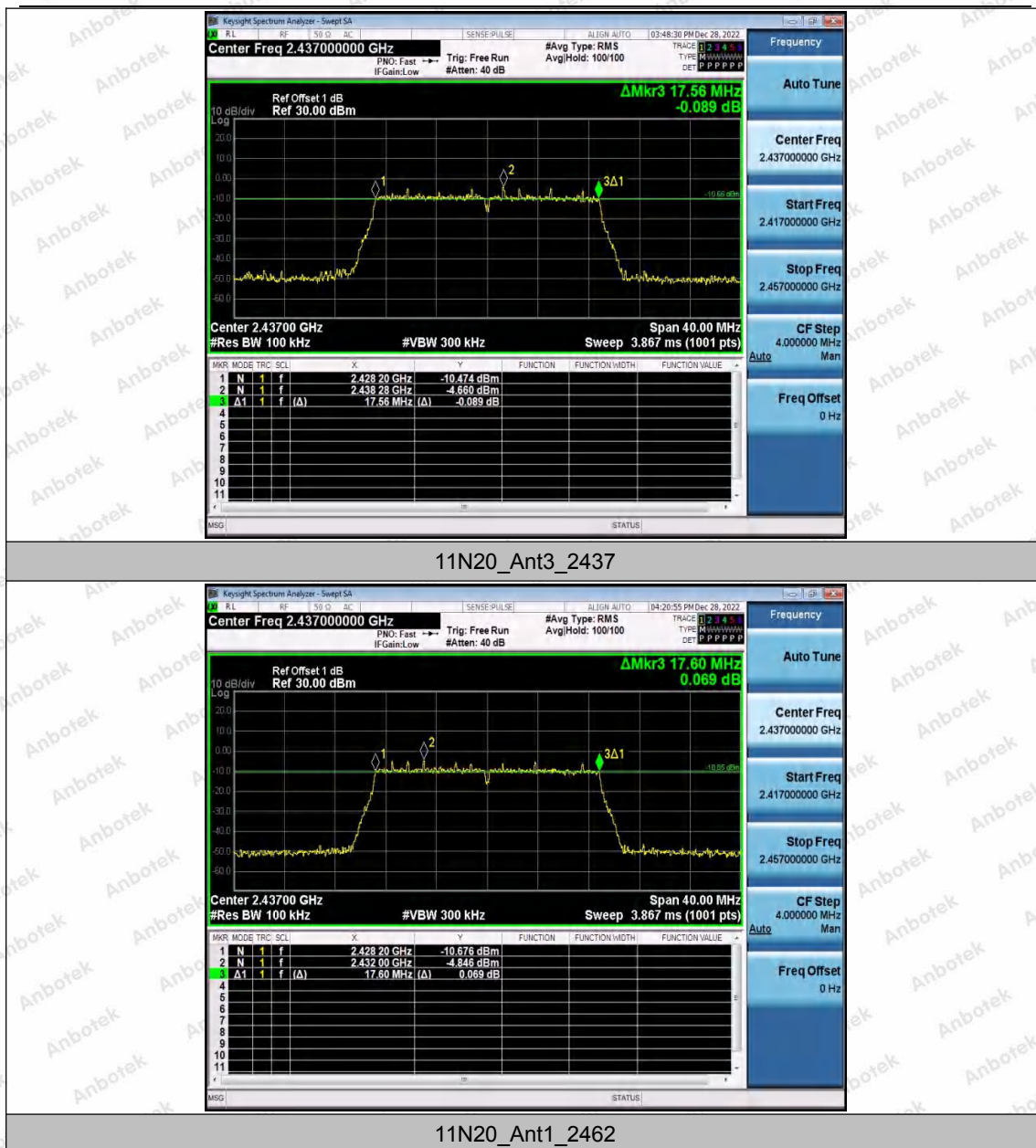


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11N20_Ant2_2462



11N20_Ant3_2462

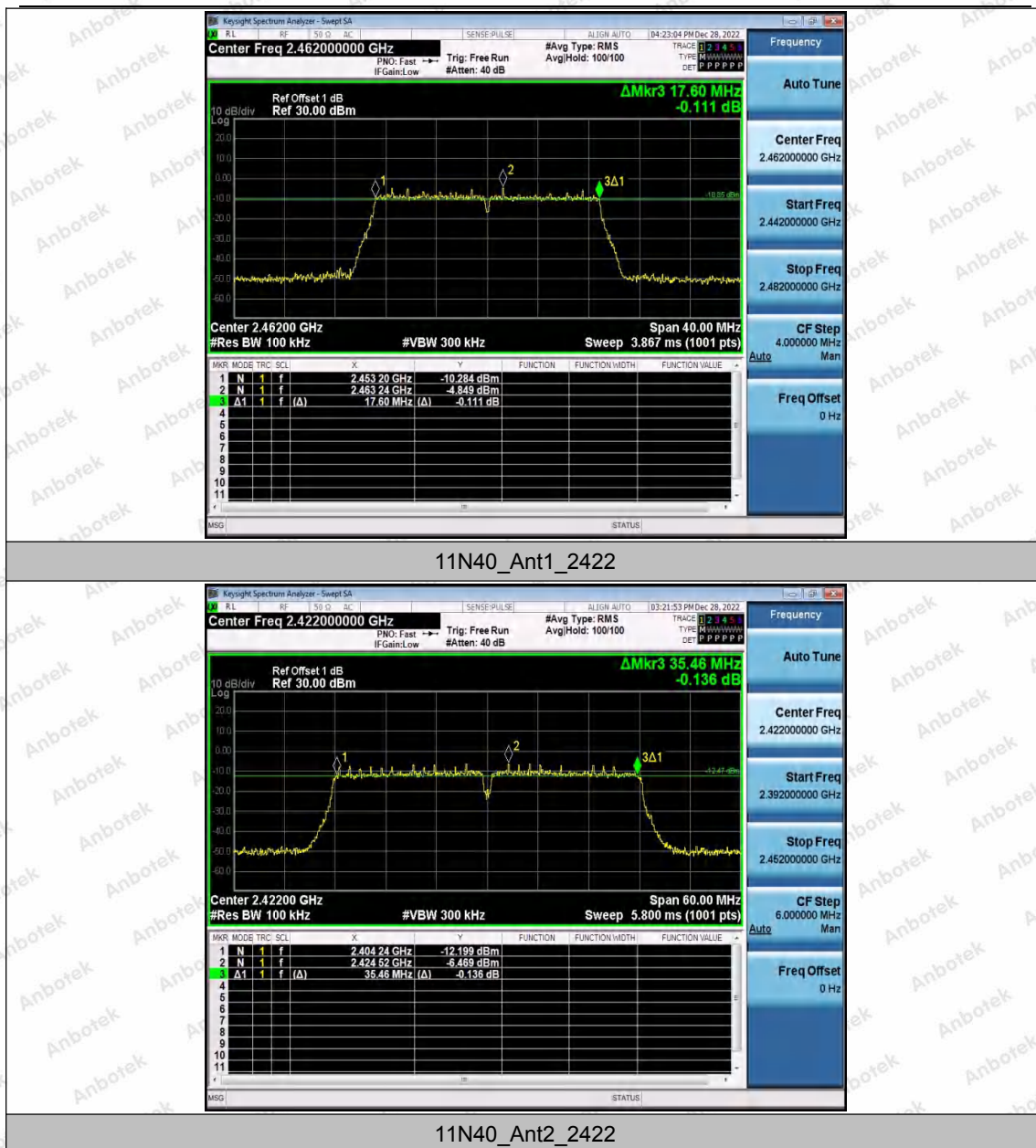
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11N40_Ant3_2422



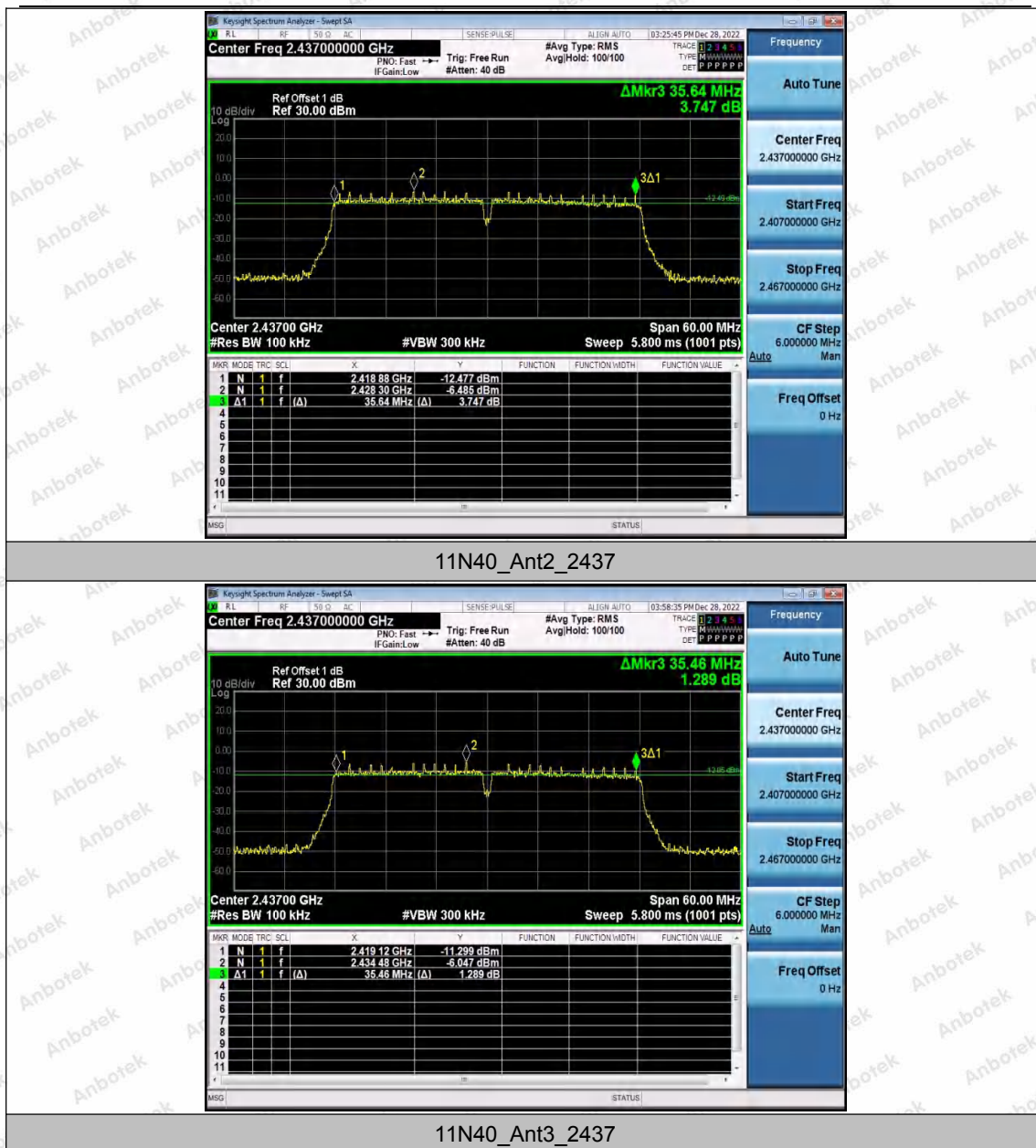
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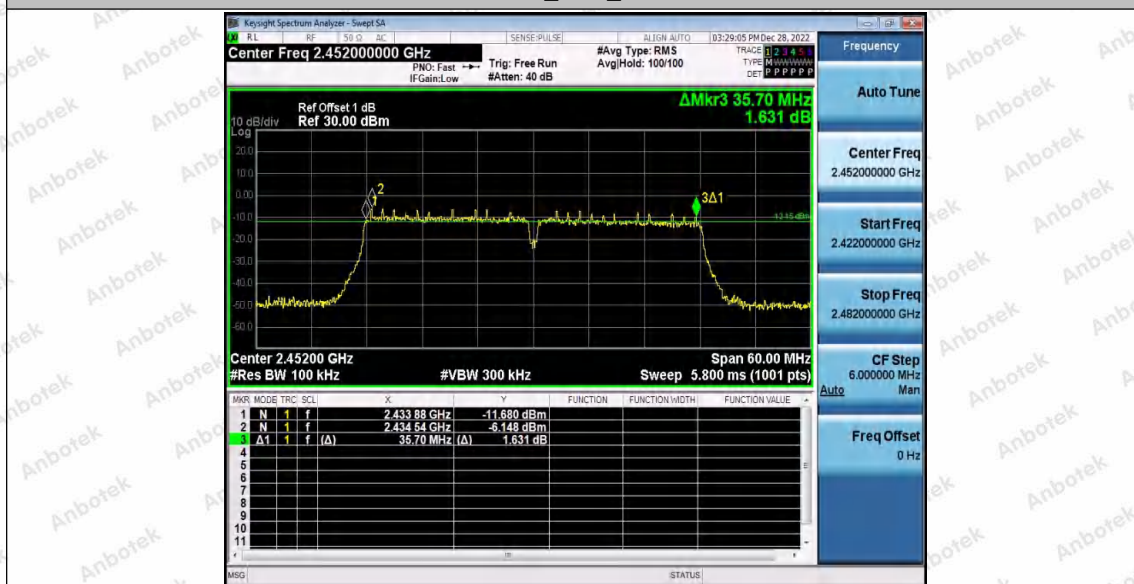


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11N40_Ant1_2452



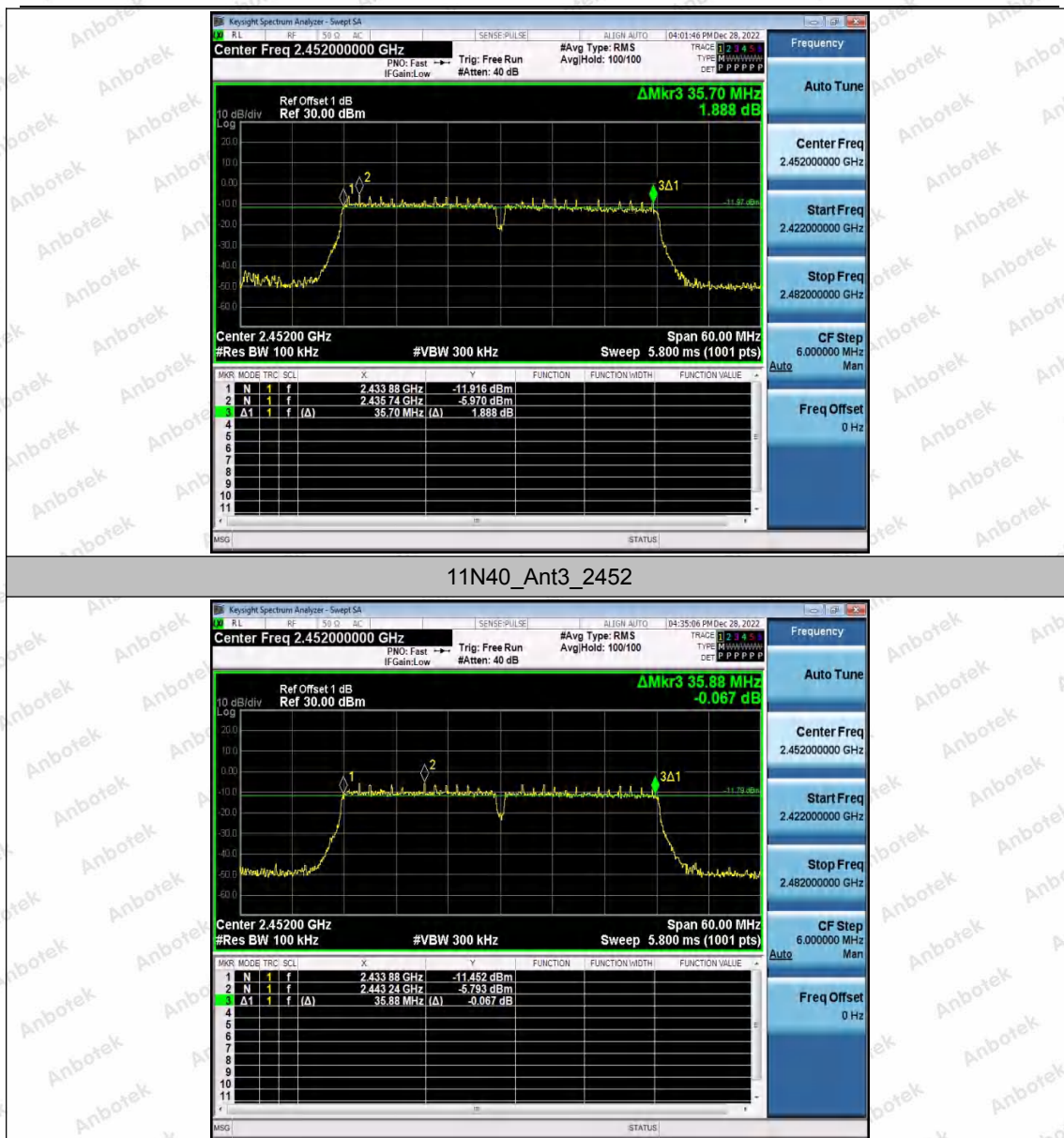
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Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	12.315	2405.9266	2418.2416	---	---
	Ant2	2412	12.309	2405.9255	2418.2345	---	---
	Ant3	2412	12.317	2405.9202	2418.2372	---	---
	Ant1	2437	12.355	2430.8231	2443.1781	---	---
	Ant2	2437	12.339	2430.8283	2443.1673	---	---
	Ant3	2437	12.336	2430.8299	2443.1659	---	---
	Ant1	2462	12.449	2455.7579	2468.2069	---	---
	Ant2	2462	12.464	2455.7476	2468.2116	---	---
	Ant3	2462	12.463	2455.7515	2468.2145	---	---
11G	Ant1	2412	17.069	2403.5998	2420.6688	---	---
	Ant2	2412	17.043	2403.5683	2420.6113	---	---
	Ant3	2412	17.103	2403.5480	2420.6510	---	---
	Ant1	2437	17.020	2428.4699	2445.4899	---	---
	Ant2	2437	17.033	2428.4751	2445.5081	---	---
	Ant3	2437	17.008	2428.4777	2445.4857	---	---
	Ant1	2462	17.014	2453.4653	2470.4793	---	---
	Ant2	2462	17.178	2453.4115	2470.5895	---	---
	Ant3	2462	17.076	2453.4533	2470.5293	---	---
11N20	Ant1	2412	18.018	2403.0284	2421.0464	---	---
	Ant2	2412	17.971	2403.0864	2421.0574	---	---
	Ant3	2412	17.944	2403.0880	2421.0320	---	---
	Ant1	2437	17.965	2428.0145	2445.9795	---	---
	Ant2	2437	17.943	2428.0398	2445.9828	---	---
	Ant3	2437	17.966	2427.9898	2445.9558	---	---
	Ant1	2462	17.972	2453.0107	2470.9827	---	---
	Ant2	2462	17.917	2453.0239	2470.9409	---	---
	Ant3	2462	17.953	2453.0143	2470.9673	---	---
11N40	Ant1	2422	36.086	2404.0116	2440.0976	---	---
	Ant2	2422	36.121	2404.0204	2440.1414	---	---
	Ant3	2422	36.187	2403.9606	2440.1476	---	---
	Ant1	2437	36.064	2418.9501	2455.0141	---	---
	Ant2	2437	36.128	2418.9360	2455.0640	---	---
	Ant3	2437	36.150	2418.9752	2455.1252	---	---
	Ant1	2452	36.159	2433.8950	2470.0540	---	---
	Ant2	2452	36.190	2433.8486	2470.0386	---	---



	Ant3	2452	36.175	2433.9063	2470.0813	---	---
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Test Graphs



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11B_Ant2_2462



11B_Ant3_2462

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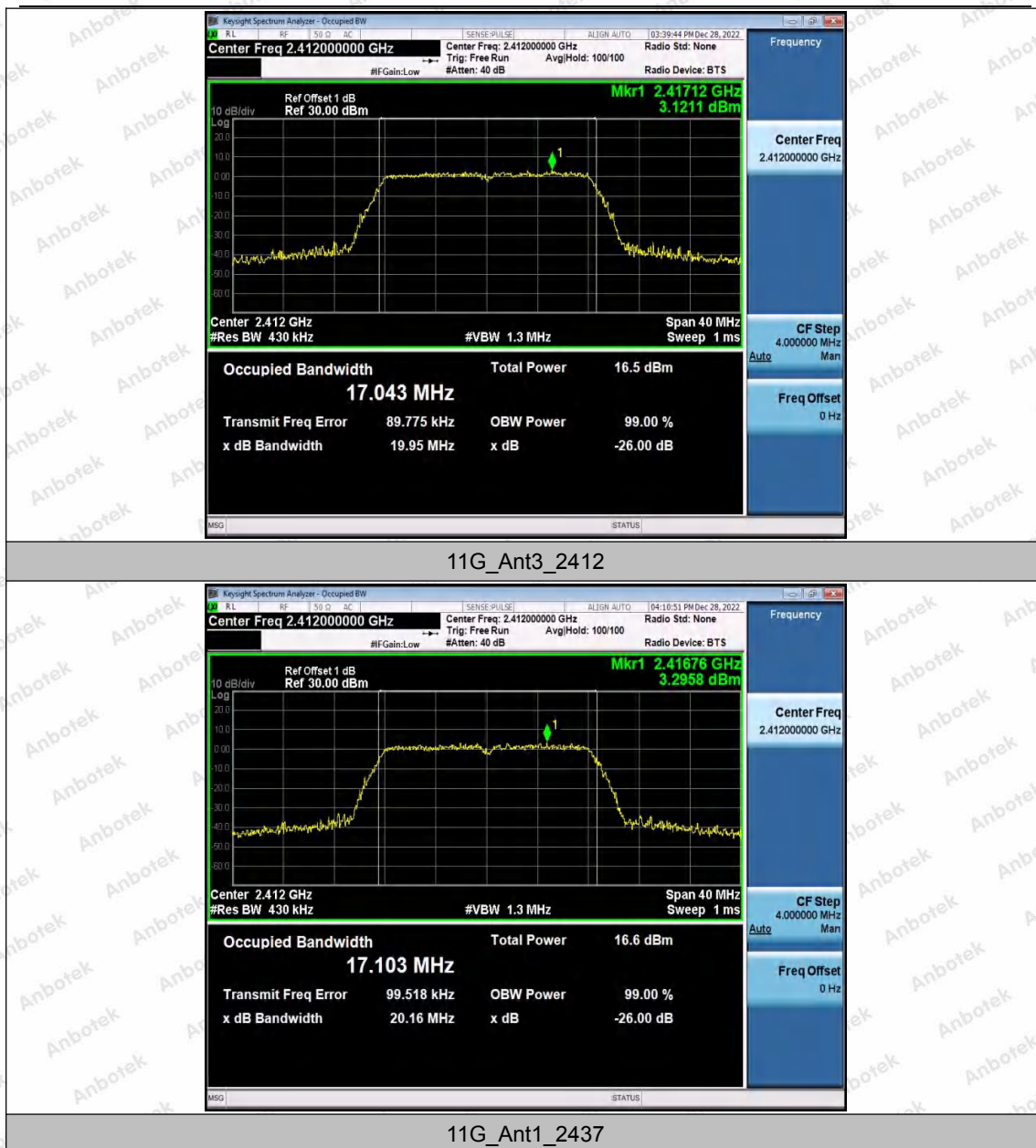
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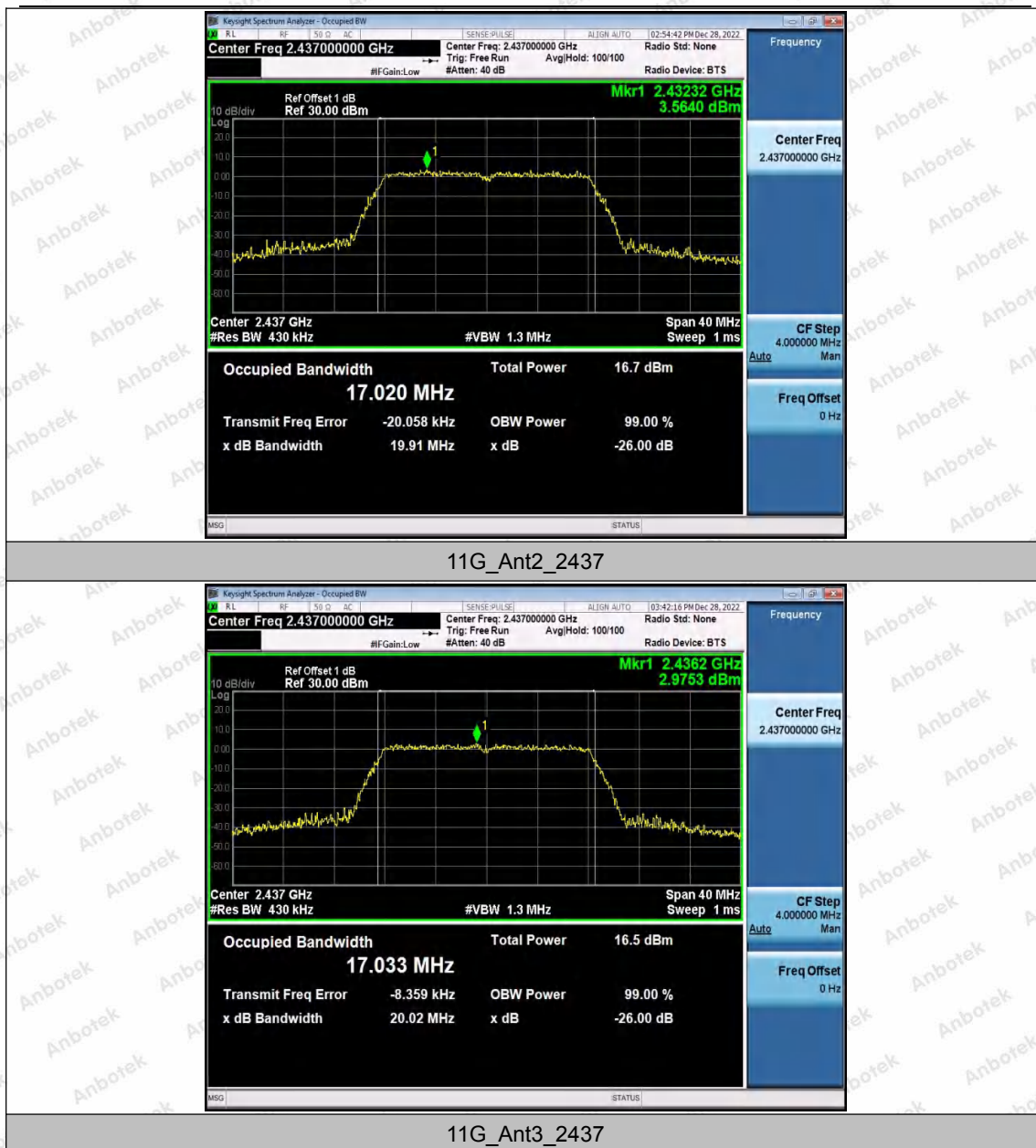
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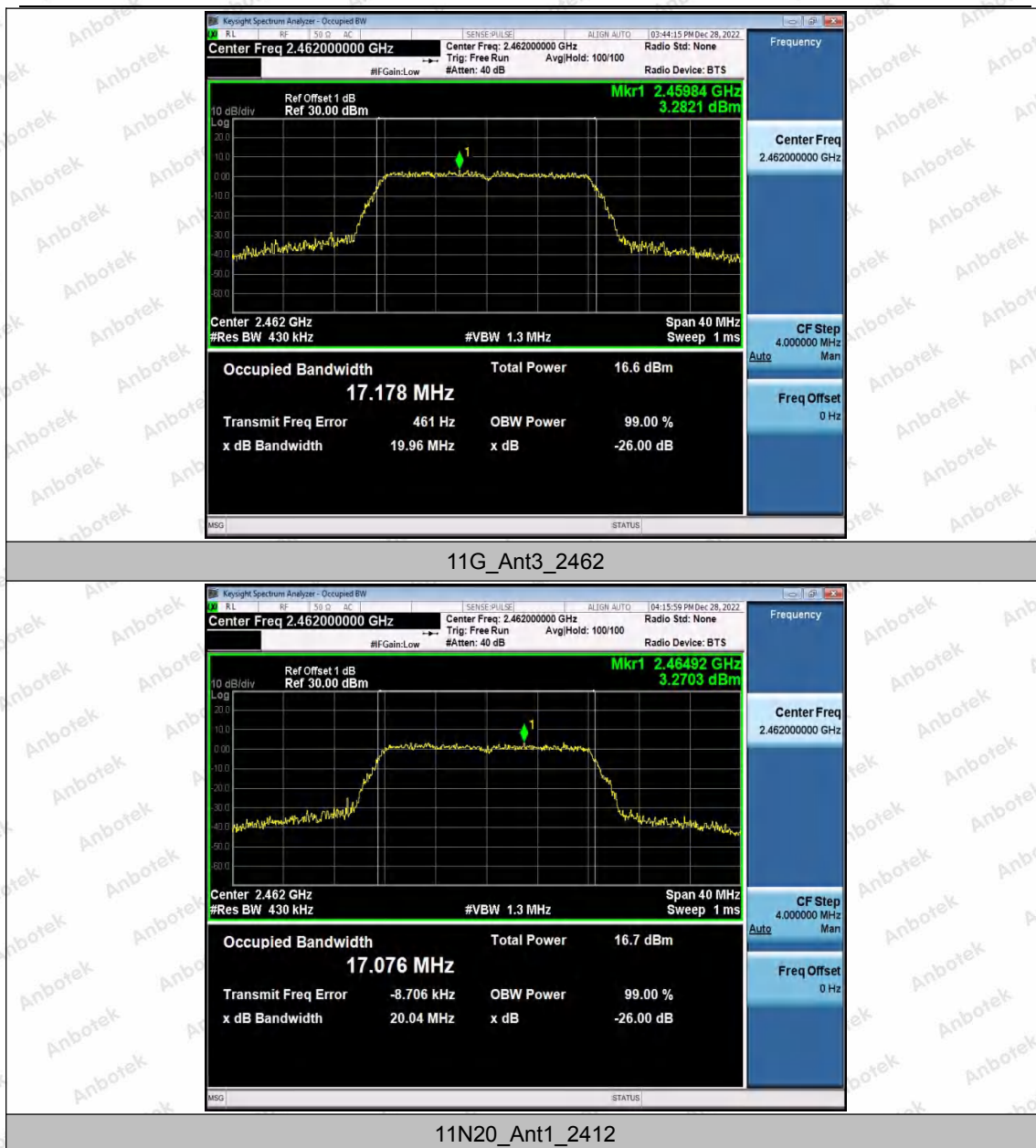
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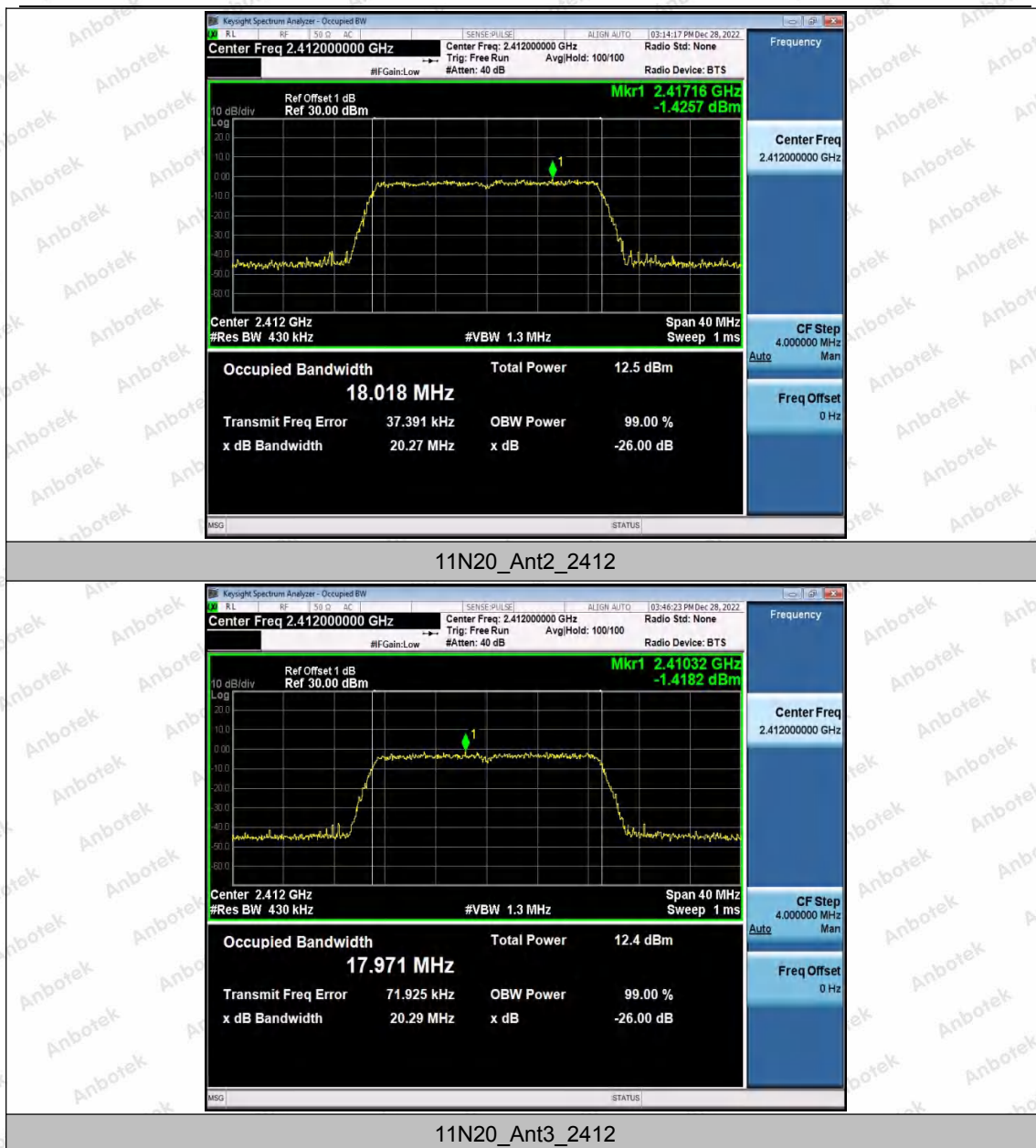
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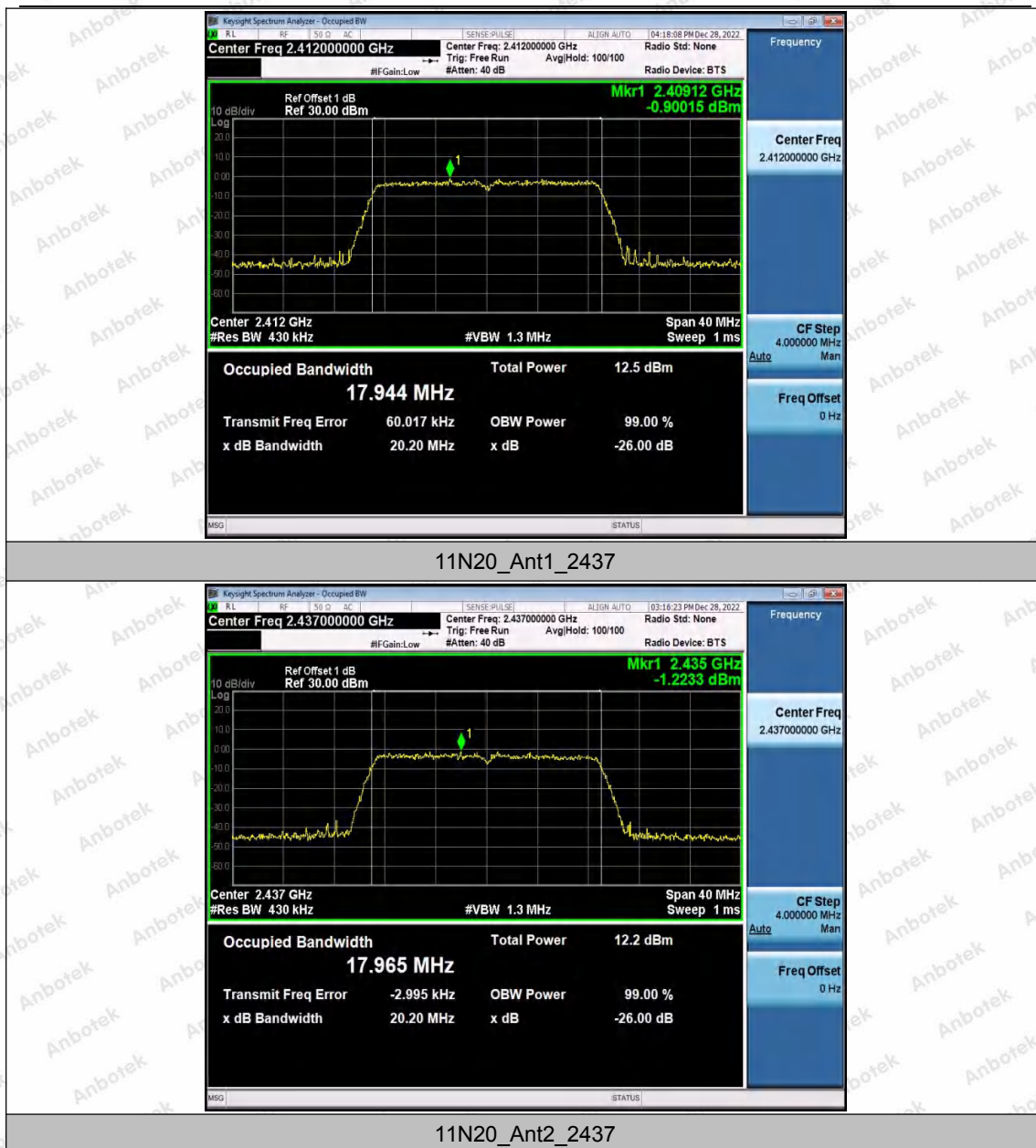
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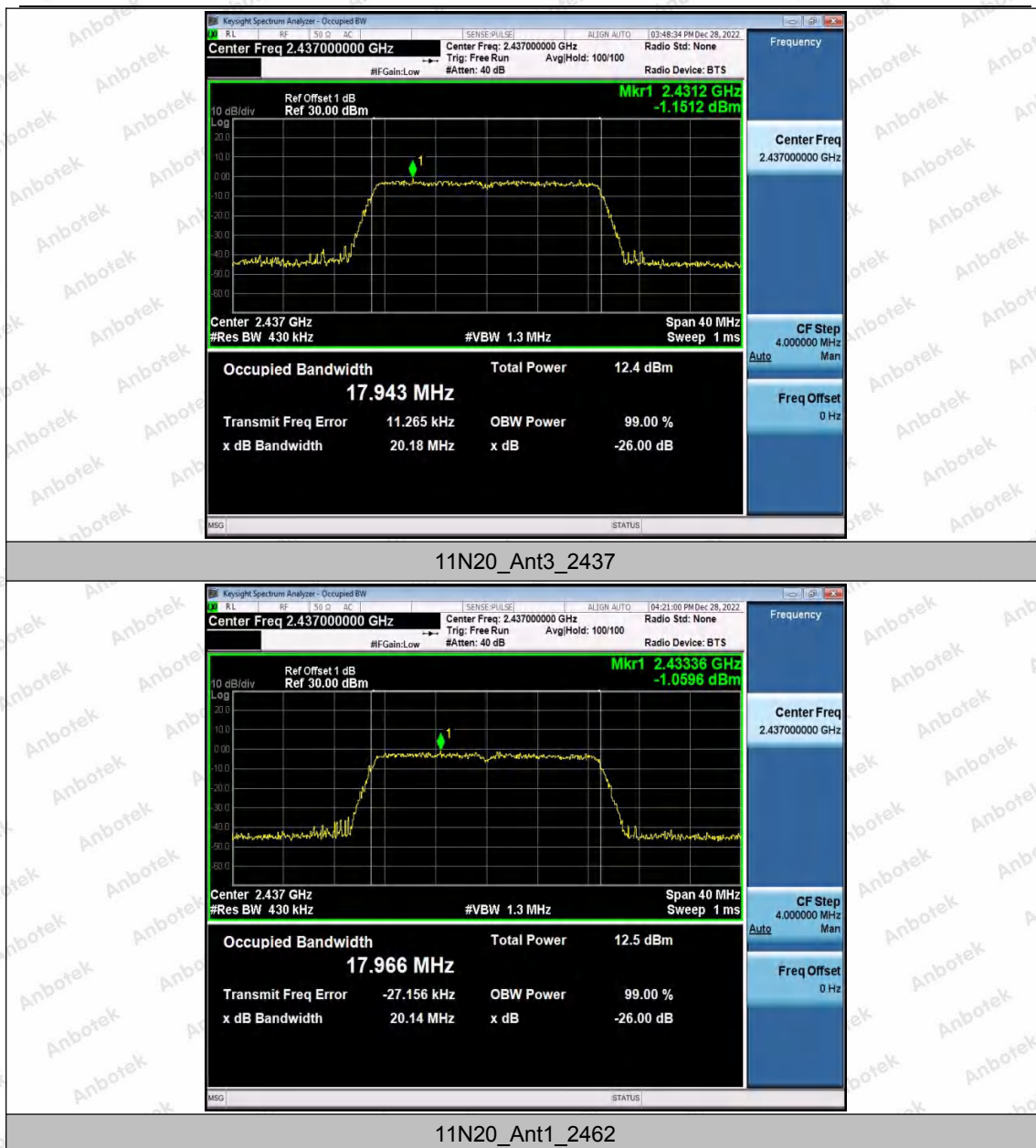
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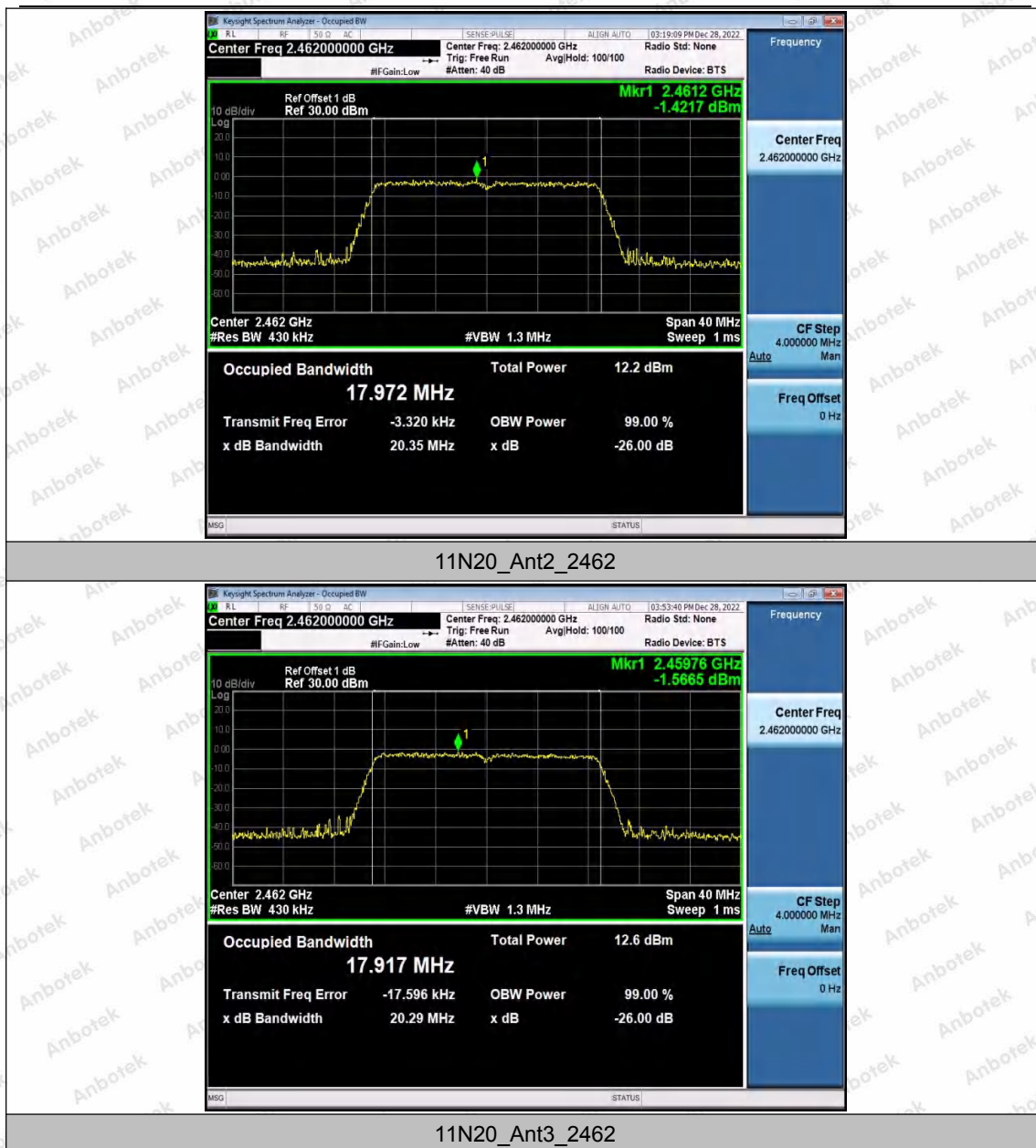
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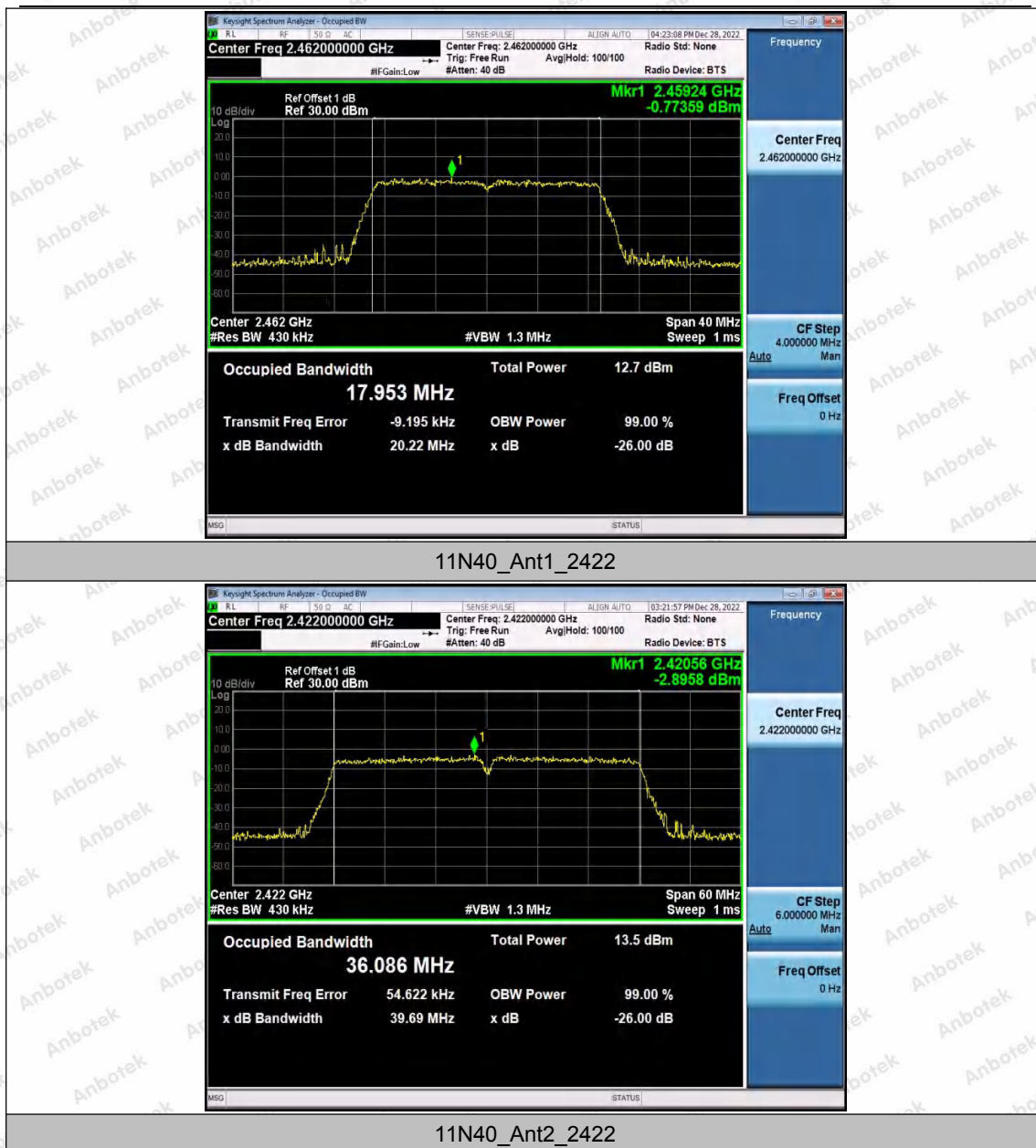
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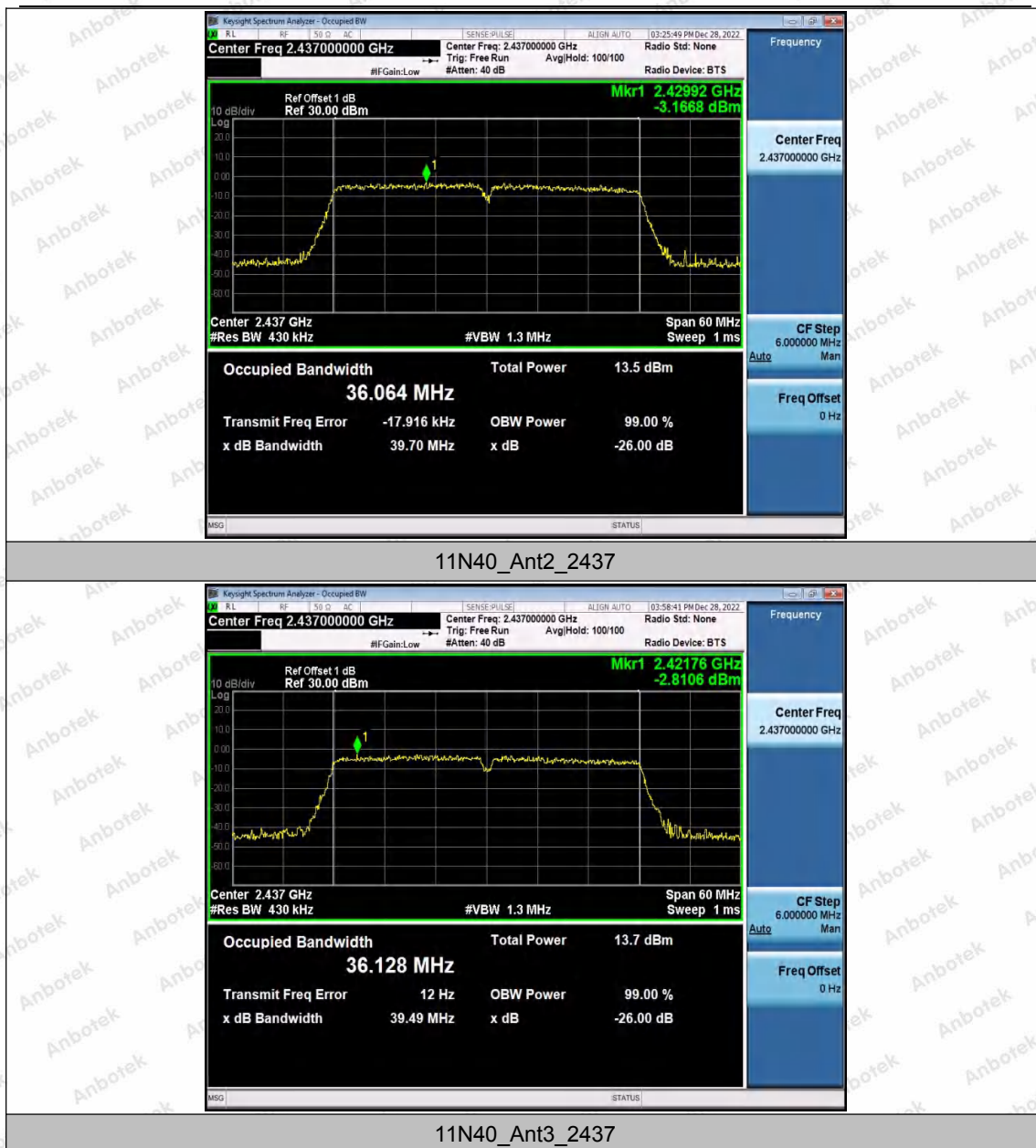
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Appendix C: Maximum conducted output power

Test Result Peak

TestMode	Antenna	Frequency[MHz]	Peak Power[dBm]	Conducted Limit[dBm]
11B	Ant1	2412	17.29	≤30.00
	Ant2	2412	17.16	≤30.00
	Ant3	2412	17.44	≤30.00
	Ant1	2437	17.46	≤30.00
	Ant2	2437	17.08	≤30.00
	Ant3	2437	17.10	≤30.00
	Ant1	2462	17.20	≤30.00
	Ant2	2462	17.25	≤30.00
	Ant3	2462	17.37	≤30.00
11G	Ant1	2412	17.77	≤30.00
	Ant2	2412	17.65	≤30.00
	Ant3	2412	17.85	≤30.00
	Ant1	2437	17.88	≤30.00
	Ant2	2437	17.70	≤30.00
	Ant3	2437	17.71	≤30.00
	Ant1	2462	17.76	≤30.00
	Ant2	2462	17.62	≤30.00
	Ant3	2462	17.83	≤30.00
11N20	Ant1	2412	13.72	≤30.00
	Ant2	2412	13.58	≤30.00
	Ant3	2412	13.68	≤30.00
	Ant1	2437	13.41	≤30.00
	Ant2	2437	13.66	≤30.00
	Ant3	2437	13.72	≤30.00
	Ant1	2462	13.40	≤30.00
	Ant2	2462	13.81	≤30.00
	Ant3	2462	13.78	≤30.00
11N40	Ant1	2422	12.22	≤30.00
	Ant2	2422	12.50	≤30.00
	Ant3	2422	12.51	≤30.00
	Ant1	2437	12.26	≤30.00
	Ant2	2437	12.49	≤30.00
	Ant3	2437	11.93	≤30.00
	Ant1	2452	12.06	≤30.00
	Ant2	2452	12.14	≤30.00
	Ant3	2452	12.60	≤30.00



MIMO

Test Mode	Antenna	Frequency[MHz]	Peak Power[dBm]	Total [dBm]	Conducted Limit[dBm]	Verdict
11N20SISO	Ant1	2412	13.72	18.43	≤28.91	PASS
	Ant2	2412	13.58			PASS
	Ant3	2412	13.68			PASS
	Ant1	2437	13.41	18.37	≤28.91	PASS
	Ant2	2437	13.66			PASS
	Ant3	2437	13.72			PASS
	Ant1	2462	13.40	18.44	≤28.91	PASS
	Ant2	2462	13.81			PASS
	Ant3	2462	13.78			PASS
11N40SISO	Ant1	2422	12.22	17.18	≤28.91	PASS
	Ant2	2422	12.50			PASS
	Ant3	2422	12.51			PASS
	Ant1	2437	12.26	17.00	≤28.91	PASS
	Ant2	2437	12.49			PASS
	Ant3	2437	11.93			PASS
	Ant1	2452	12.06	17.04	≤28.91	PASS
	Ant2	2452	12.14			PASS
	Ant3	2452	12.60			PASS

Note:

1. Total (dBm)= $10 \times \log(10^{(\text{ANT1 power(dBm)}/10)} + 10^{(\text{ANT2 power(dBm)}/10)} + 10^{(\text{ANT3 power(dBm)}/10)})$
2. As Directional gain= $10 \log((10^{G1/20} + 10^{G2/20} + 10^{G3/20})^2 / N_{\text{ANT}})$ dBi,
so MIMO Limit(dBm)=Limit - (Directional gain-6.00).



Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-6.87	≤8.00	PASS
	Ant2	2412	-6.38	≤8.00	PASS
	Ant3	2412	-8.42	≤8.00	PASS
	Ant1	2437	-8.79	≤8.00	PASS
	Ant2	2437	-8.79	≤8.00	PASS
	Ant3	2437	-9.16	≤8.00	PASS
	Ant1	2462	-8.21	≤8.00	PASS
	Ant2	2462	-7.22	≤8.00	PASS
	Ant3	2462	-8.3	≤8.00	PASS
11G	Ant1	2412	-13.54	≤8.00	PASS
	Ant2	2412	-13.81	≤8.00	PASS
	Ant3	2412	-13.72	≤8.00	PASS
	Ant1	2437	-13.98	≤8.00	PASS
	Ant2	2437	-14.55	≤8.00	PASS
	Ant3	2437	-14.99	≤8.00	PASS
	Ant1	2462	-13.26	≤8.00	PASS
	Ant2	2462	-13.92	≤8.00	PASS
	Ant3	2462	-14.46	≤8.00	PASS
11N20	Ant1	2412	-18.77	≤8.00	PASS
	Ant2	2412	-19	≤8.00	PASS
	Ant3	2412	-18.62	≤8.00	PASS
	Ant1	2437	-19.39	≤8.00	PASS
	Ant2	2437	-18.44	≤8.00	PASS
	Ant3	2437	-18.63	≤8.00	PASS
	Ant1	2462	-18.12	≤8.00	PASS
	Ant2	2462	-18.79	≤8.00	PASS
	Ant3	2462	-18.99	≤8.00	PASS
11N40	Ant1	2422	-20.33	≤8.00	PASS
	Ant2	2422	-20.74	≤8.00	PASS
	Ant3	2422	-19.79	≤8.00	PASS
	Ant1	2437	-20.24	≤8.00	PASS
	Ant2	2437	-20.27	≤8.00	PASS
	Ant3	2437	-19.65	≤8.00	PASS
	Ant1	2452	-19.43	≤8.00	PASS
	Ant2	2452	-20.39	≤8.00	PASS
	Ant3	2452	-19.35	≤8.00	PASS

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MIMO

Test Mode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Total [dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11N20SISO	Ant1	2412	-18.77	-14.02	≤6.91	PASS
	Ant2	2412	-19.00			PASS
	Ant3	2412	-18.62			PASS
	Ant1	2437	-19.39	-14.03	≤6.91	PASS
	Ant2	2437	-18.44			PASS
	Ant3	2437	-18.63			PASS
	Ant1	2462	-18.12	-13.85	≤6.91	PASS
	Ant2	2462	-18.79			PASS
	Ant3	2462	-18.99			PASS
11N40SISO	Ant1	2422	-20.33	-15.50	≤6.91	PASS
	Ant2	2422	-20.74			PASS
	Ant3	2422	-19.79			PASS
	Ant1	2437	-20.24	-15.27	≤6.91	PASS
	Ant2	2437	-20.27			PASS
	Ant3	2437	-19.65			PASS
	Ant1	2452	-19.43	-14.93	≤6.91	PASS
	Ant2	2452	-20.39			PASS
	Ant3	2452	-19.35			PASS

Note:

1. Total (dBm/3kHz)= $10 \times \log(10^{(\text{ANT1 power(dBm)/10})} + 10^{(\text{ANT2 power(dBm)/10})} + 10^{(\text{ANT3 power(dBm)/10})})$
2. As Directional gain= $10 \log[(10^{G1/20} + 10^{G2/20} + 10^{G3/20})^2 / N_{\text{ANT}}]$ dBi,
so MIMO Limit(dBm/3kHz)=Limit - (Directional gain-6.00).



Test Graphs

11B_Ant1_2412



11B_Ant2_2412



11B_Ant3_2412

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11B_Ant3_2437



11B_Ant1_2462

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11B_Ant2_2462



11B_Ant3_2462

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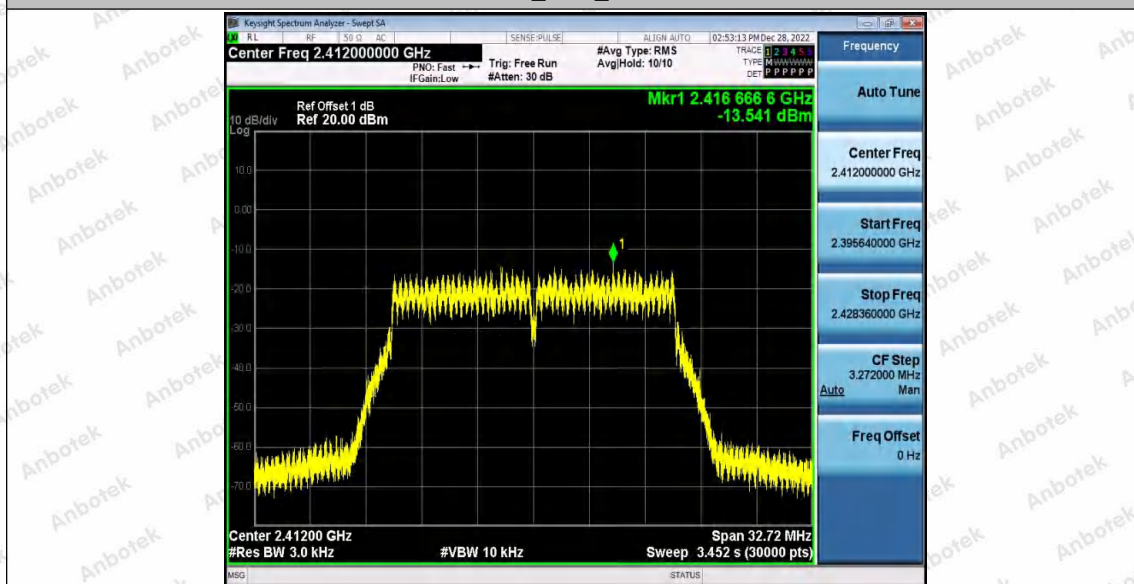


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11G_Ant1_2412



11G_Ant2_2412

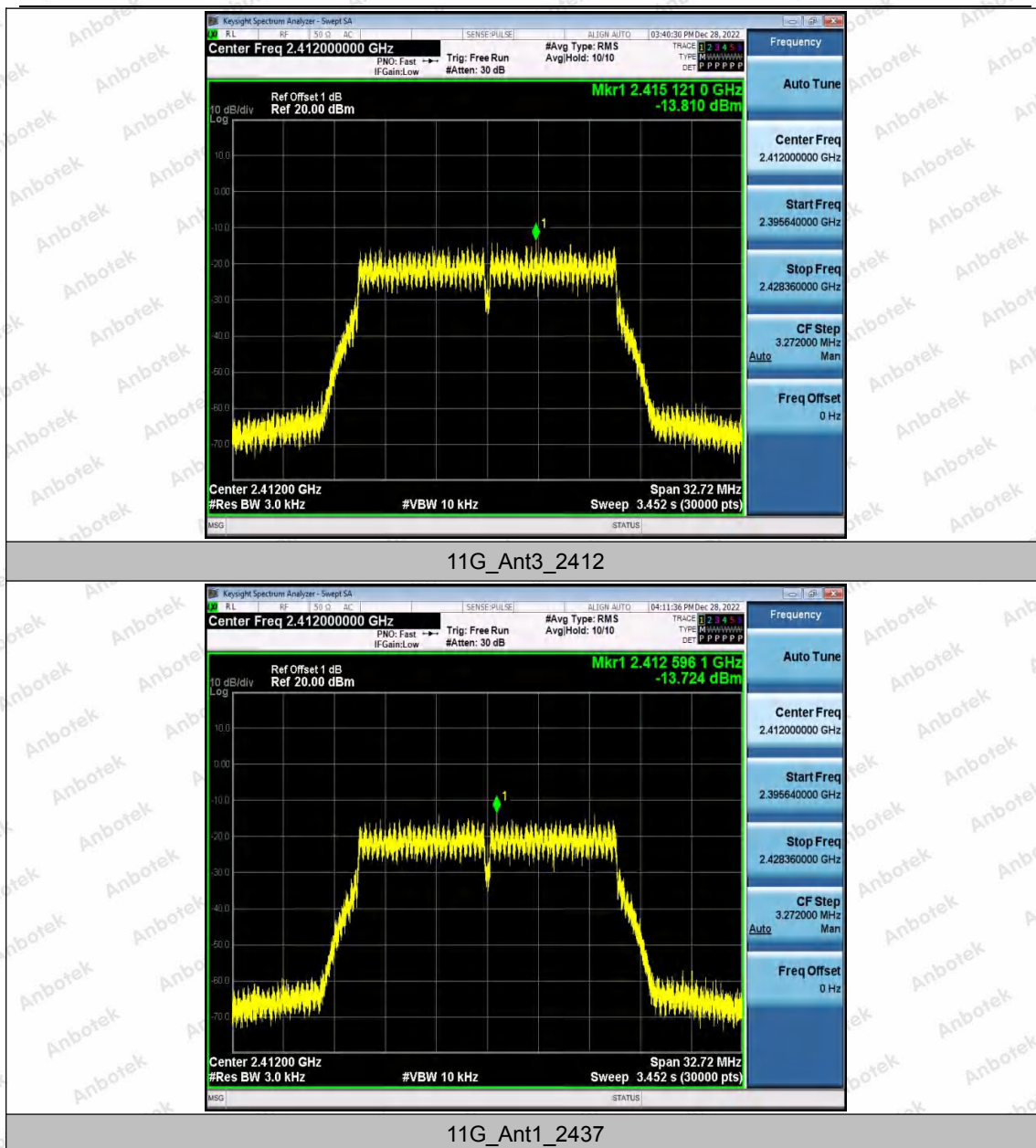
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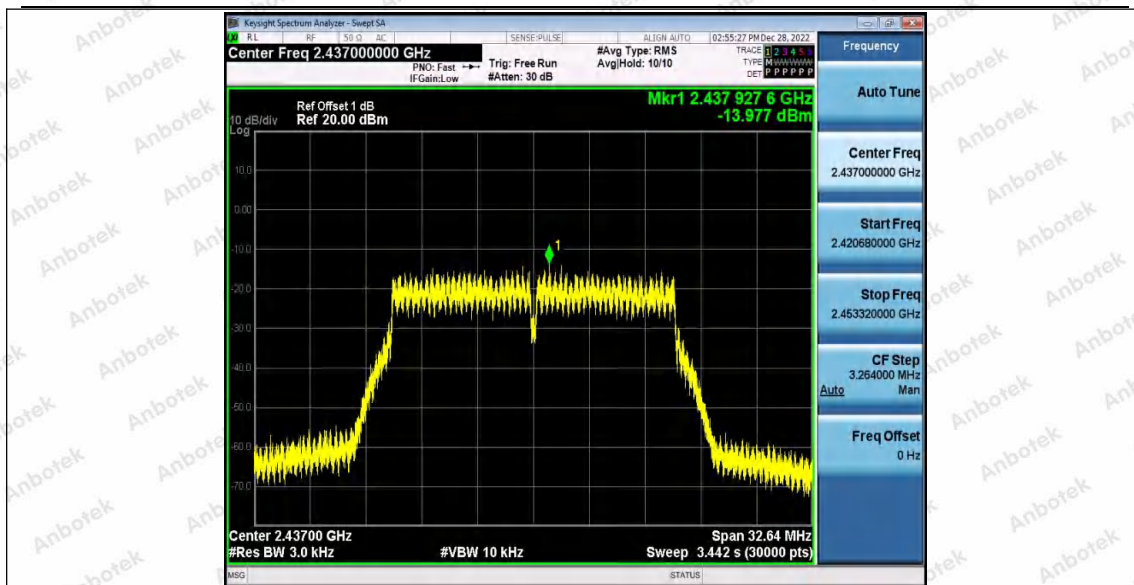
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11G_Ant2_2437



11G_Ant3_2437

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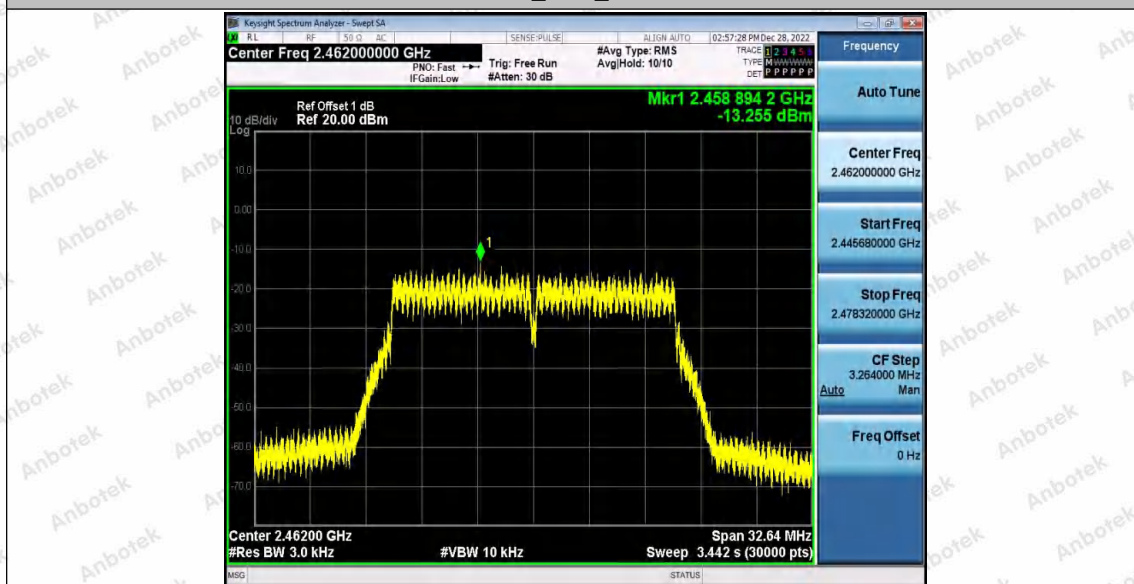


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11G_Ant1_2462



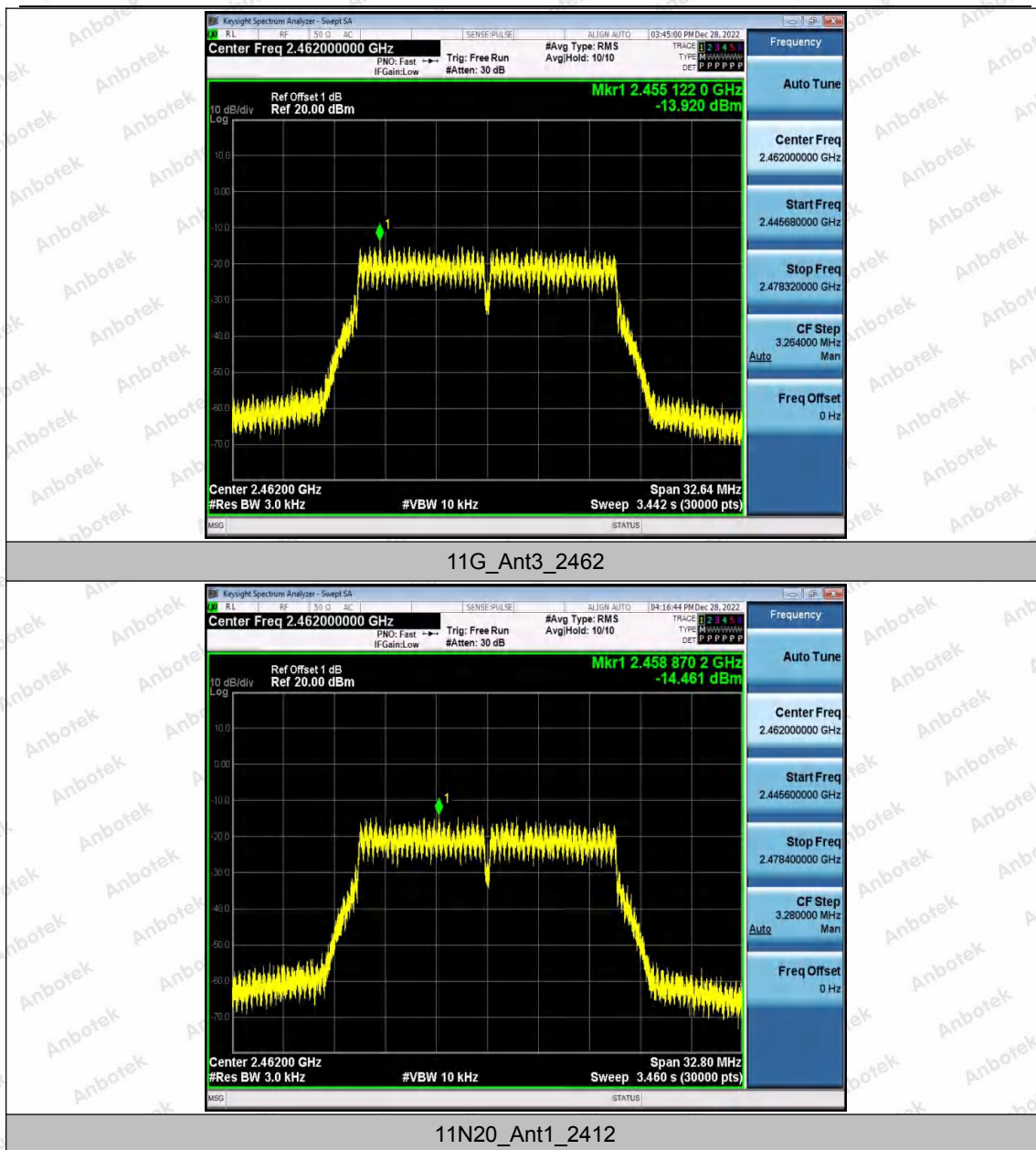
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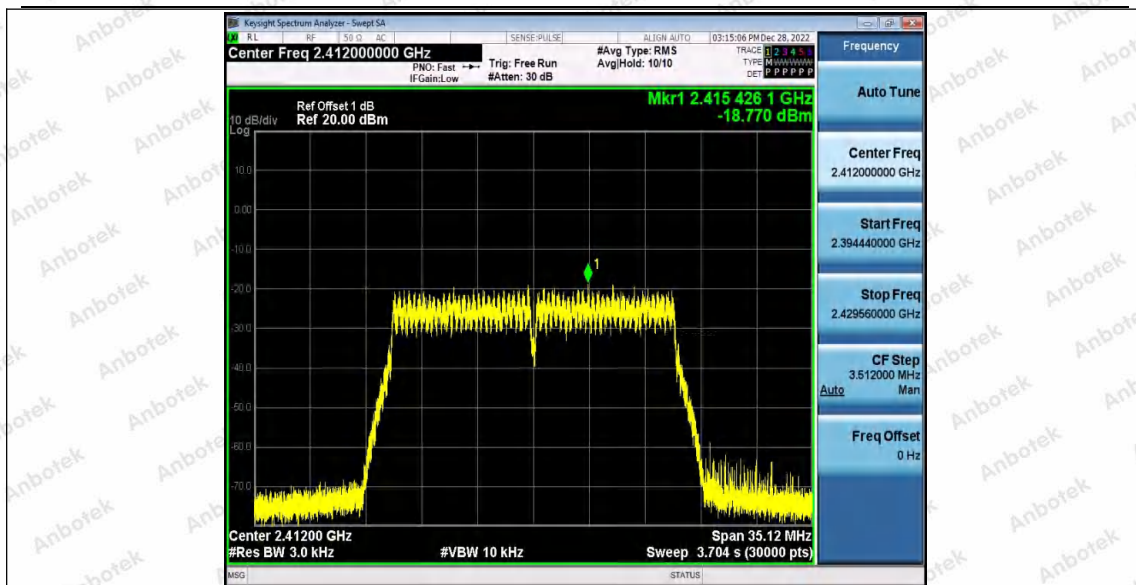
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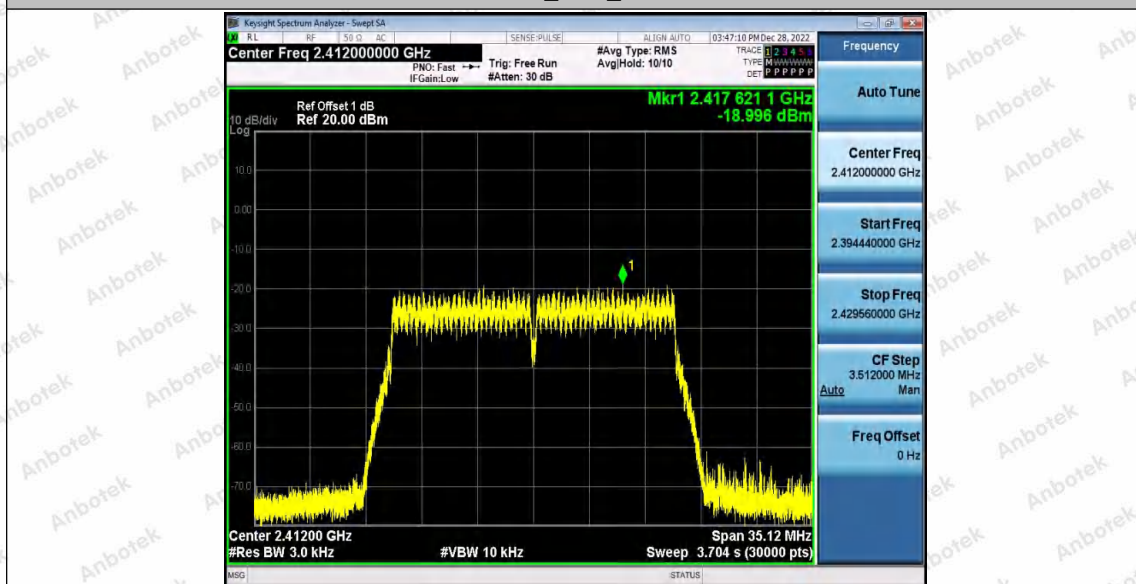


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11N20_Ant2_2412



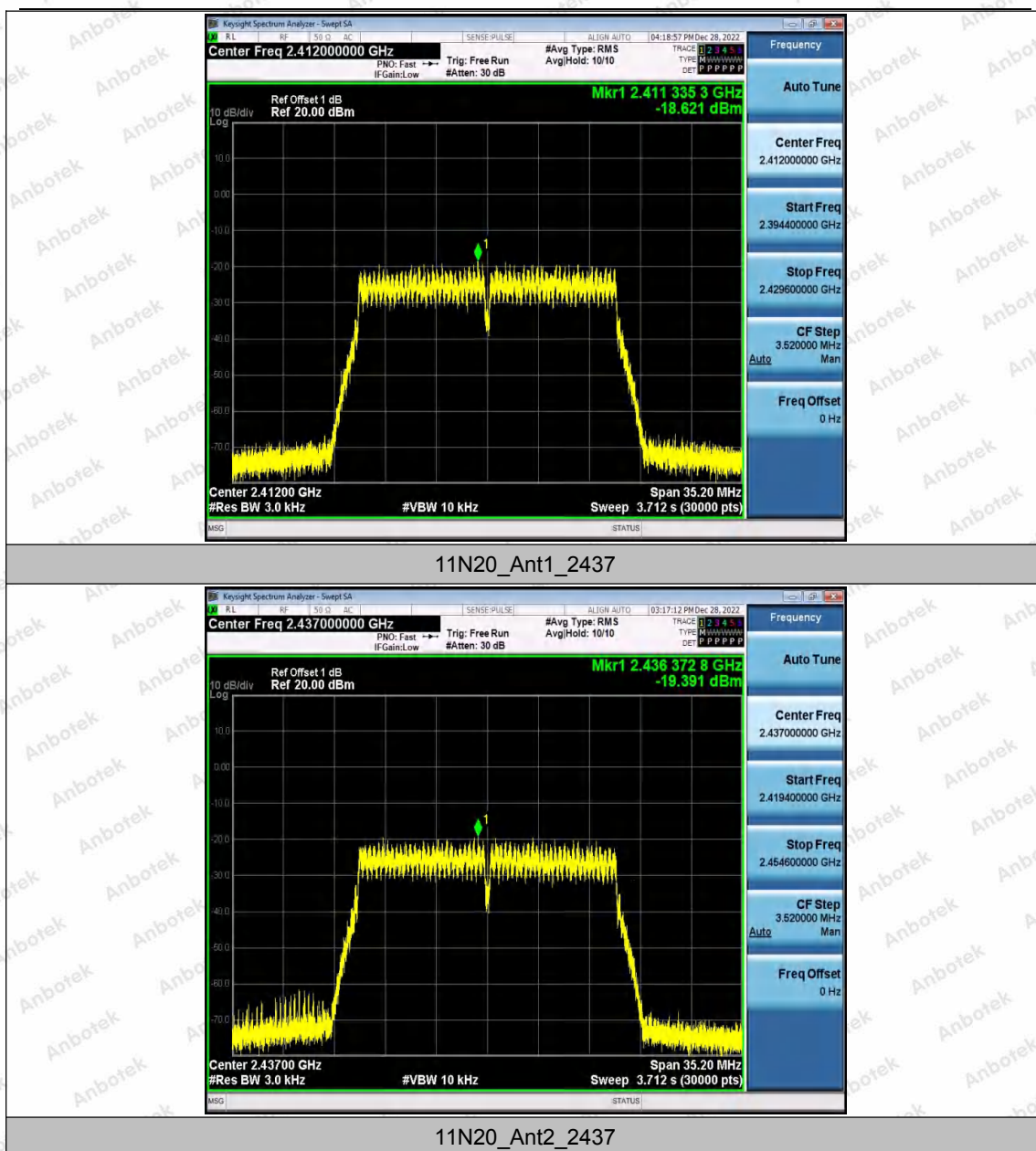
11N20_Ant3_2412

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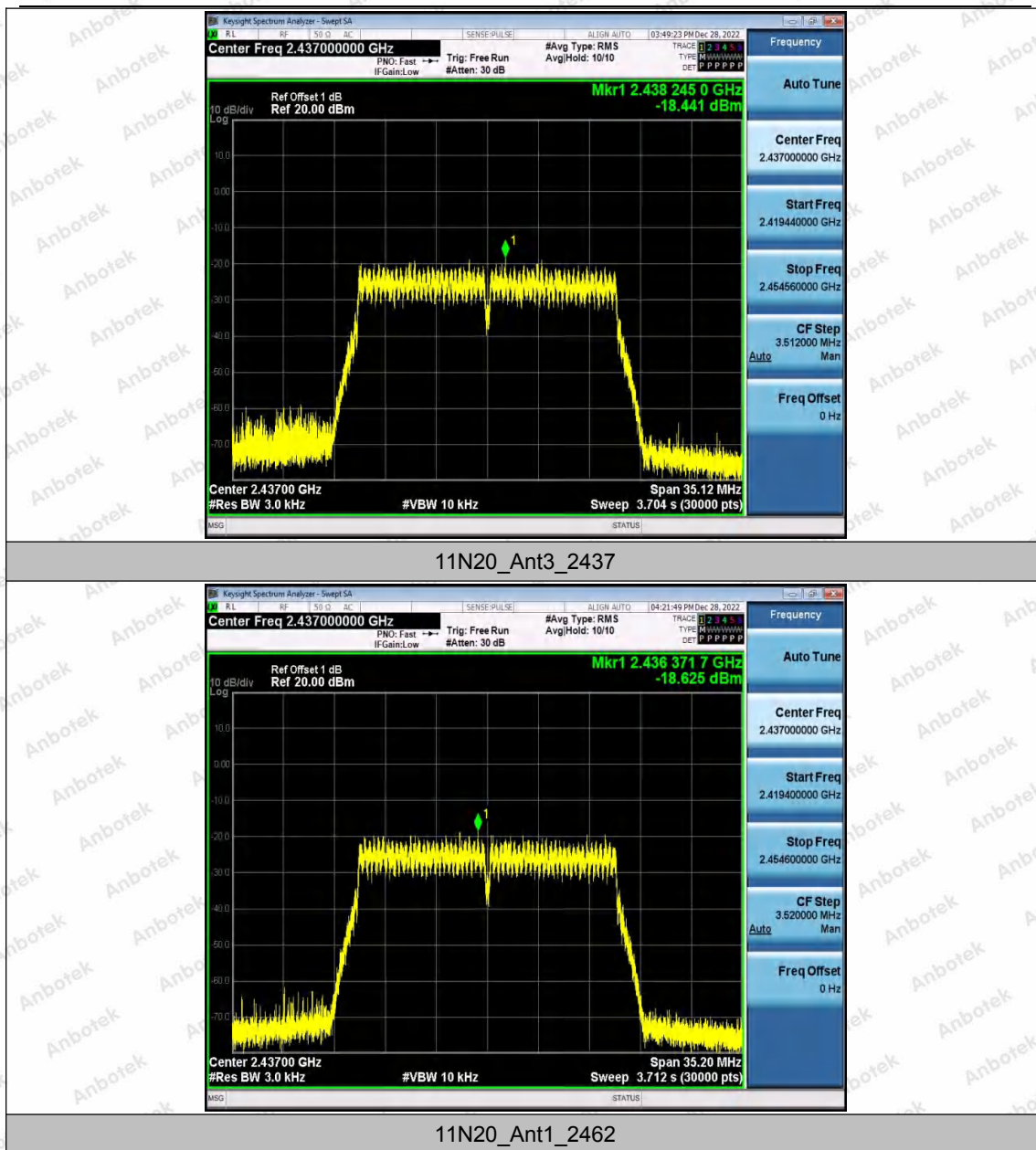
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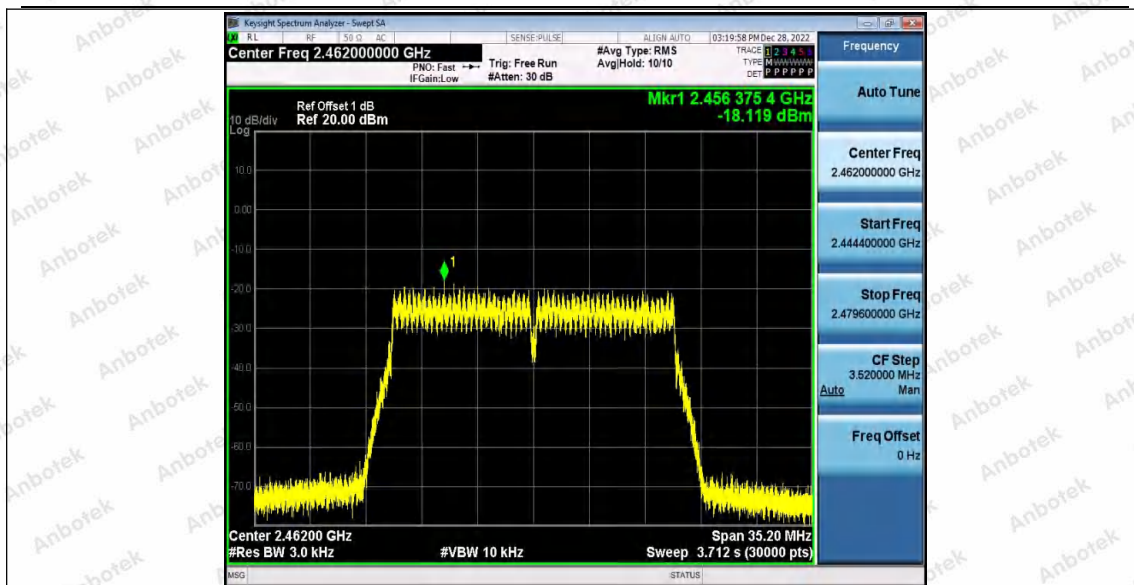
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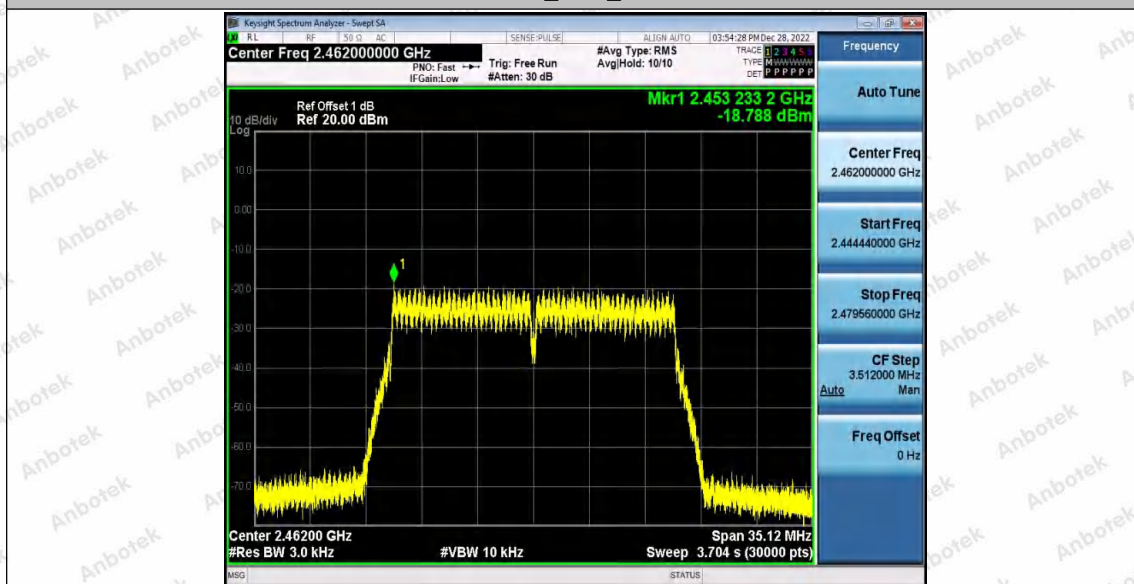


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11N20_Ant2_2462



11N20_Ant3_2462

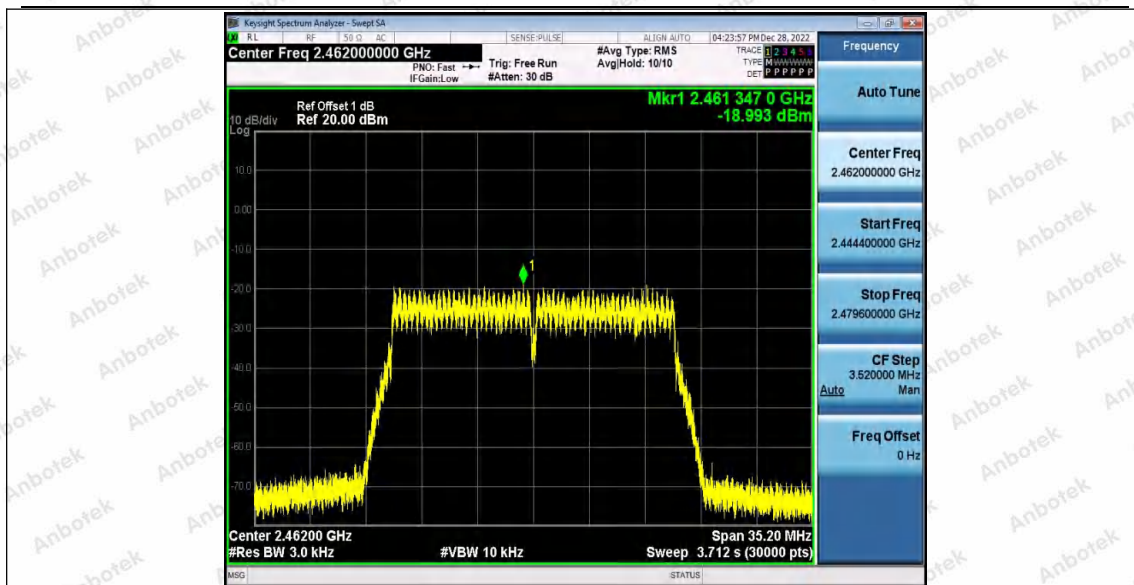
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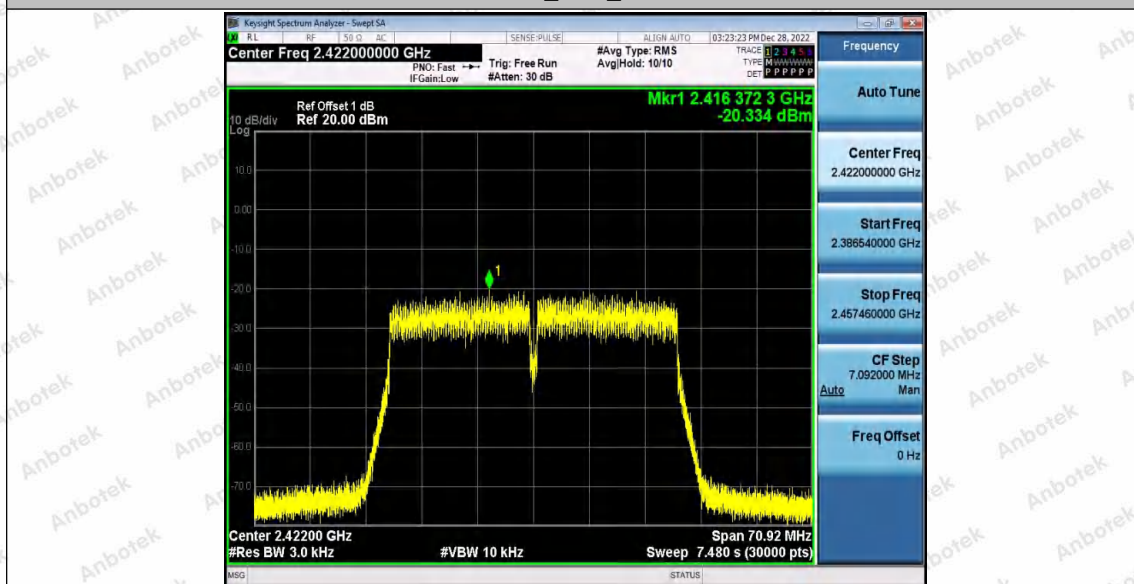


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11N40_Ant1_2422



11N40_Ant2_2422

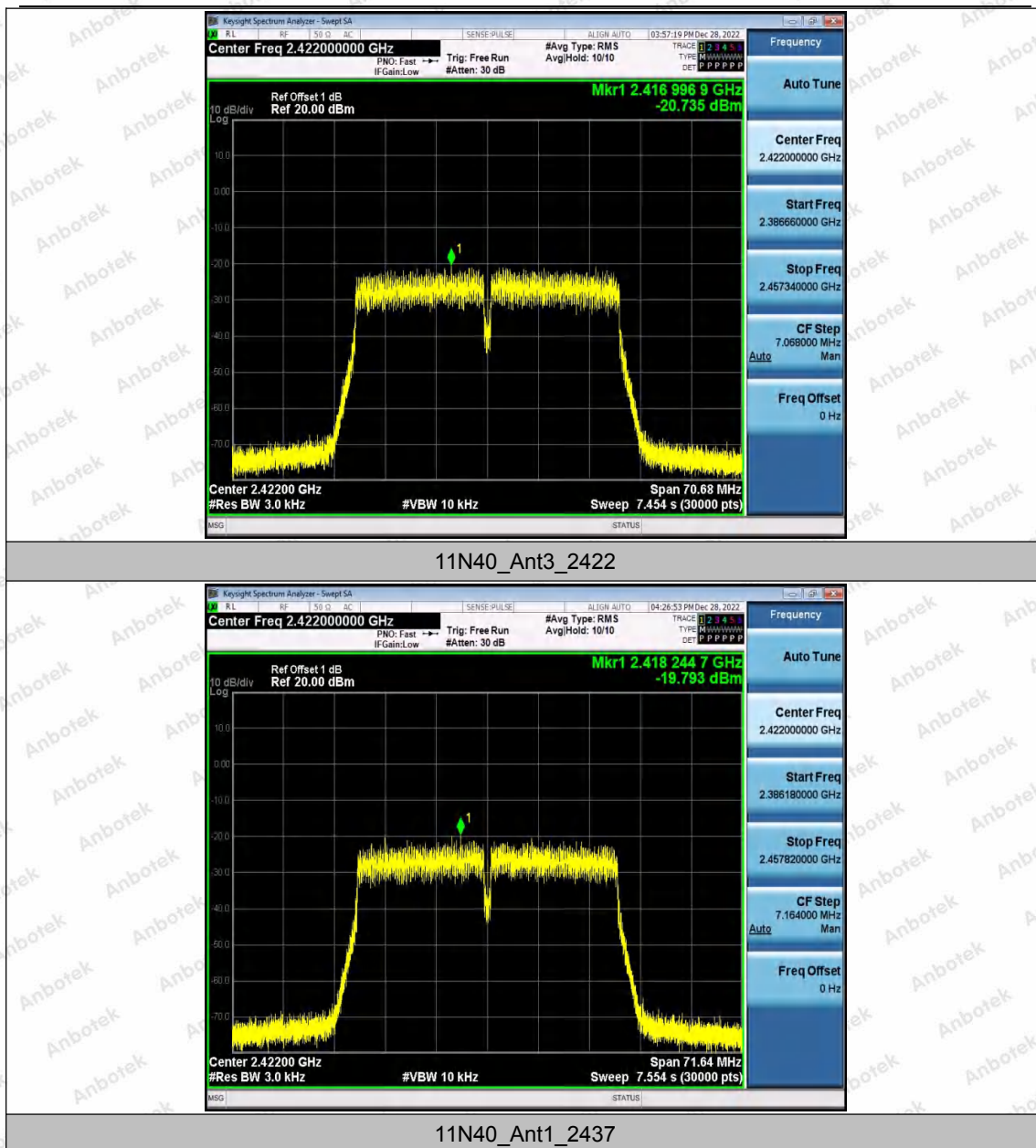
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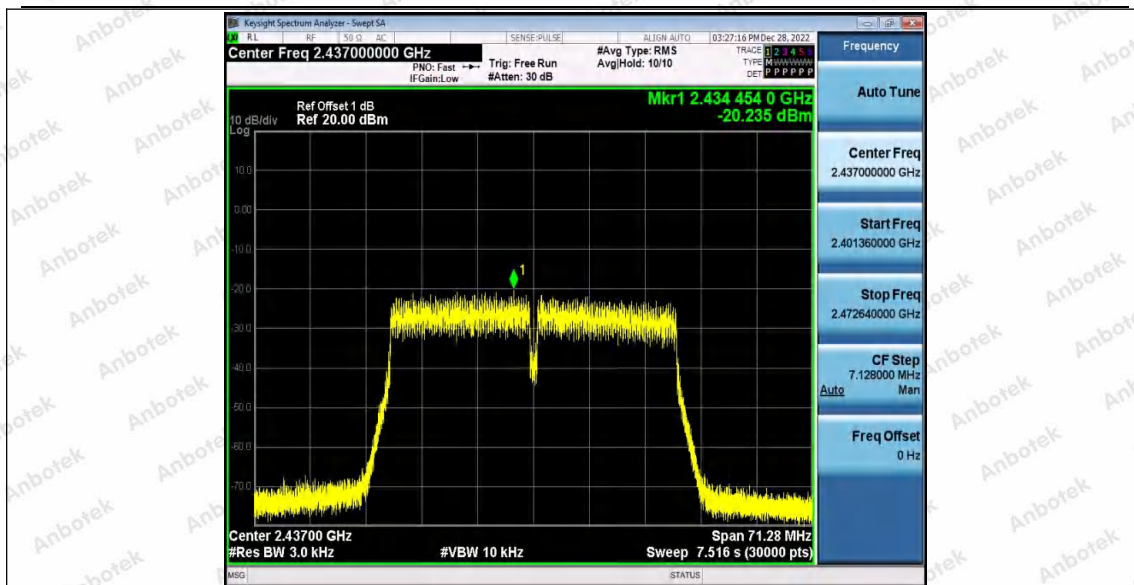
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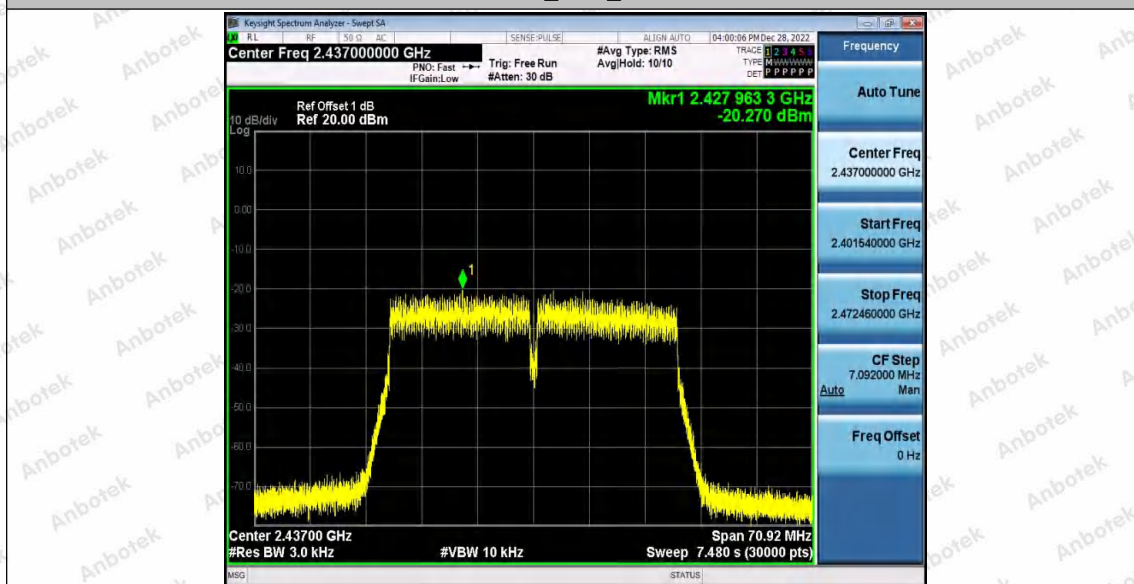


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11N40_Ant2_2437



11N40_Ant3_2437

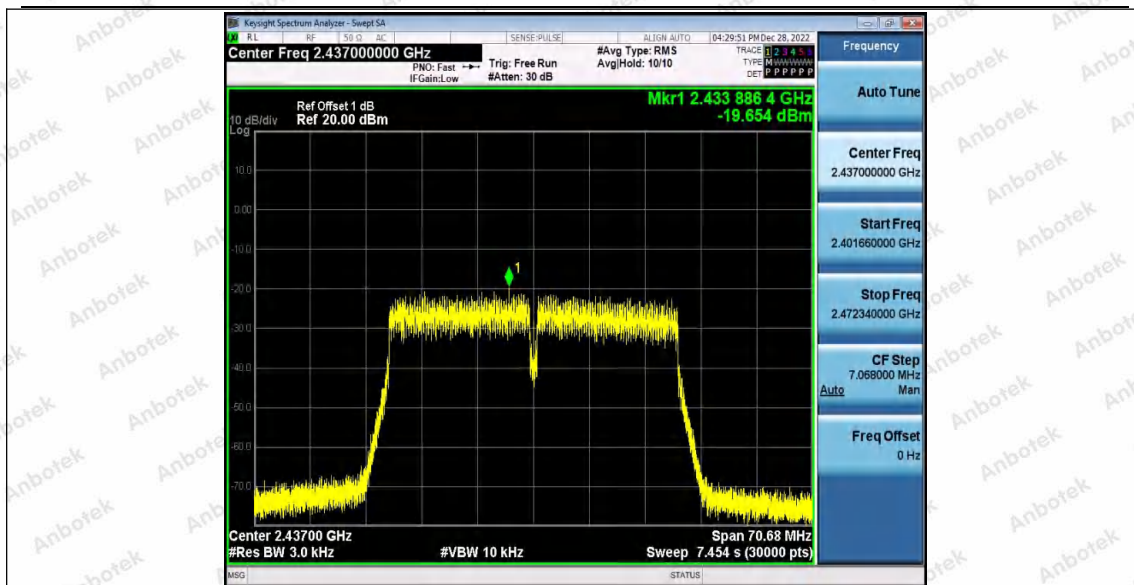
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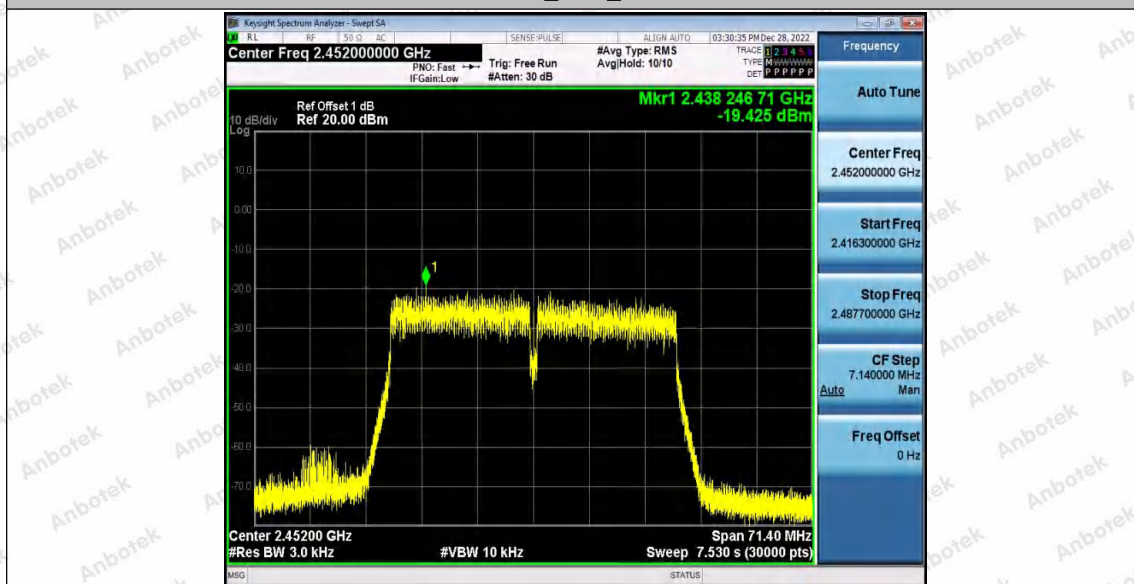


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11N40_Ant1_2452



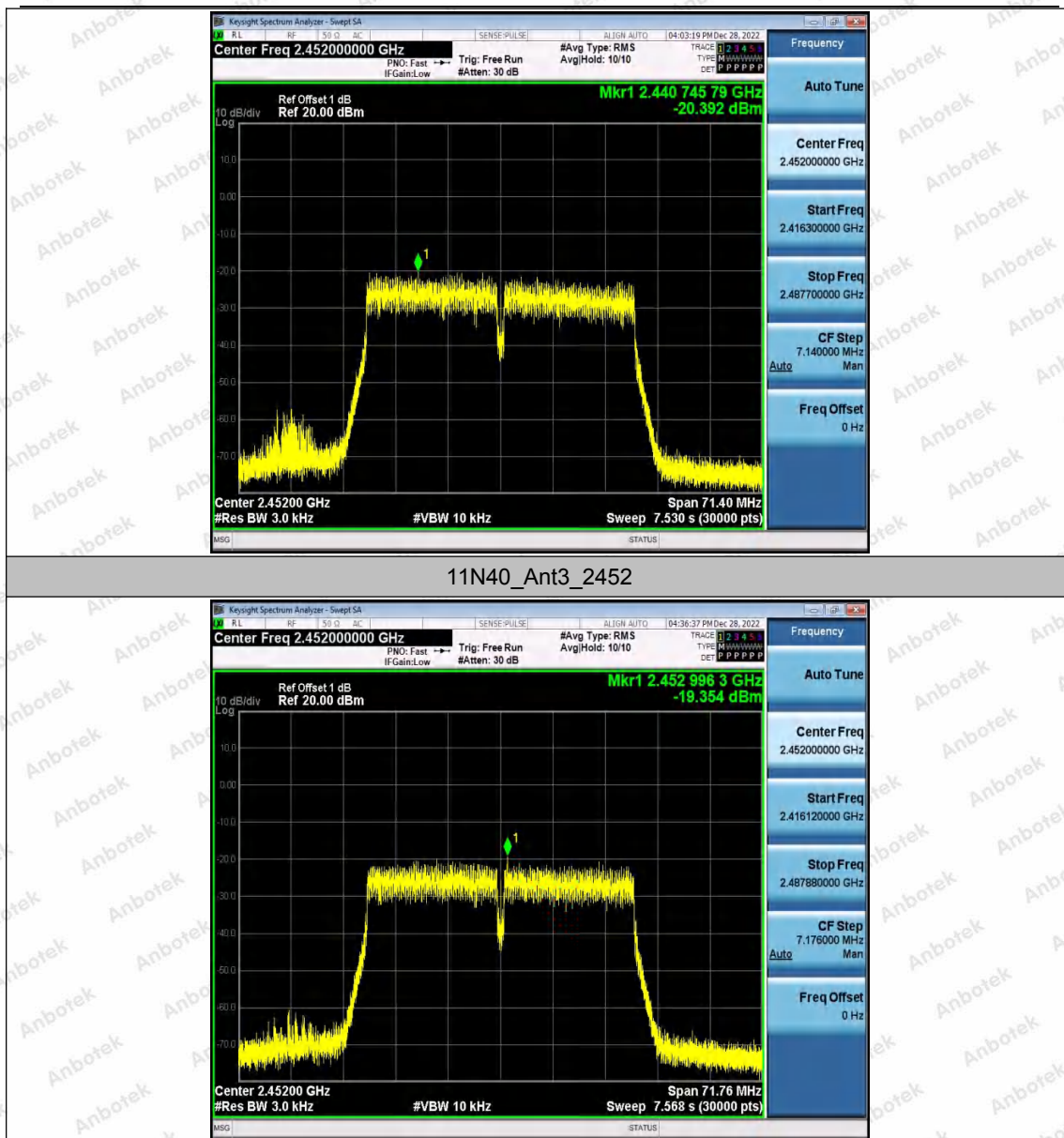
11N40_Ant2_2452

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Appendix E: Band edge measurements

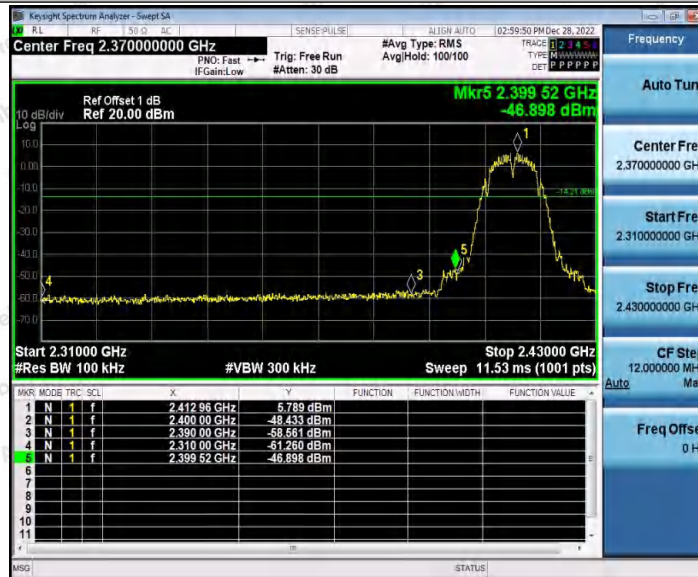
Test Result

TestMode	Antenna	Channel	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	5.79	-46.9	≤-14.21	PASS
	Ant2	Low	2412	5.20	-46.53	≤-14.8	PASS
	Ant3	Low	2412	5.80	-46.92	≤-14.2	PASS
	Ant1	High	2462	5.25	-54.84	≤-14.75	PASS
	Ant2	High	2462	5.14	-55.67	≤-14.86	PASS
	Ant3	High	2462	5.41	-55.94	≤-14.59	PASS
11G	Ant1	Low	2412	-0.74	-42.65	≤-20.74	PASS
	Ant2	Low	2412	-0.90	-43.08	≤-20.9	PASS
	Ant3	Low	2412	-0.76	-43.14	≤-20.76	PASS
	Ant1	High	2462	-0.65	-50.41	≤-20.65	PASS
	Ant2	High	2462	-0.43	-52.19	≤-20.43	PASS
	Ant3	High	2462	-0.80	-50.99	≤-20.8	PASS
11N20	Ant1	Low	2412	-4.78	-50.19	≤-24.78	PASS
	Ant2	Low	2412	-5.25	-50.44	≤-25.25	PASS
	Ant3	Low	2412	-4.93	-49.95	≤-24.93	PASS
	Ant1	High	2462	-4.74	-54.28	≤-24.74	PASS
	Ant2	High	2462	-5.10	-54.48	≤-25.1	PASS
	Ant3	High	2462	-4.62	-54.93	≤-24.62	PASS
11N40	Ant1	Low	2422	-7.19	-52.16	≤-27.19	PASS
	Ant2	Low	2422	-6.33	-50.89	≤-26.33	PASS
	Ant3	Low	2422	-6.32	-51.37	≤-26.32	PASS
	Ant1	High	2452	-6.02	-53.41	≤-26.02	PASS
	Ant2	High	2452	-6.53	-55.07	≤-26.53	PASS
	Ant3	High	2452	-5.74	-52.32	≤-25.74	PASS

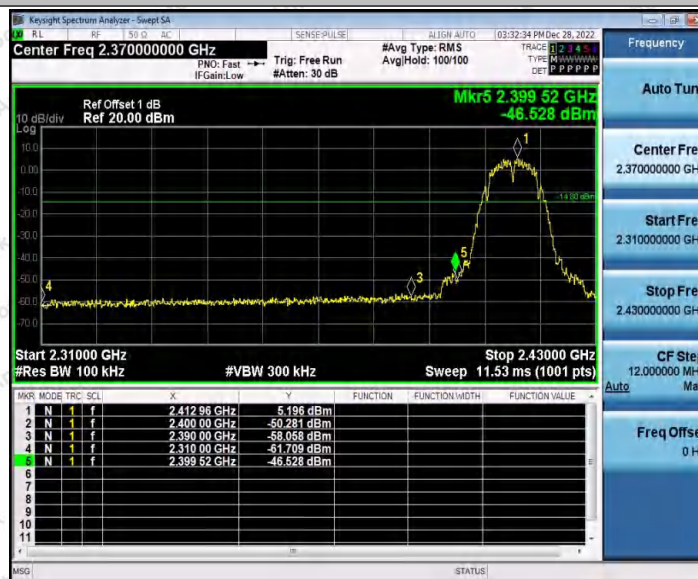


Test Graphs

11B_Ant1_Low_2412



11B_Ant2_Low_2412



11B_Ant3_Low_2412

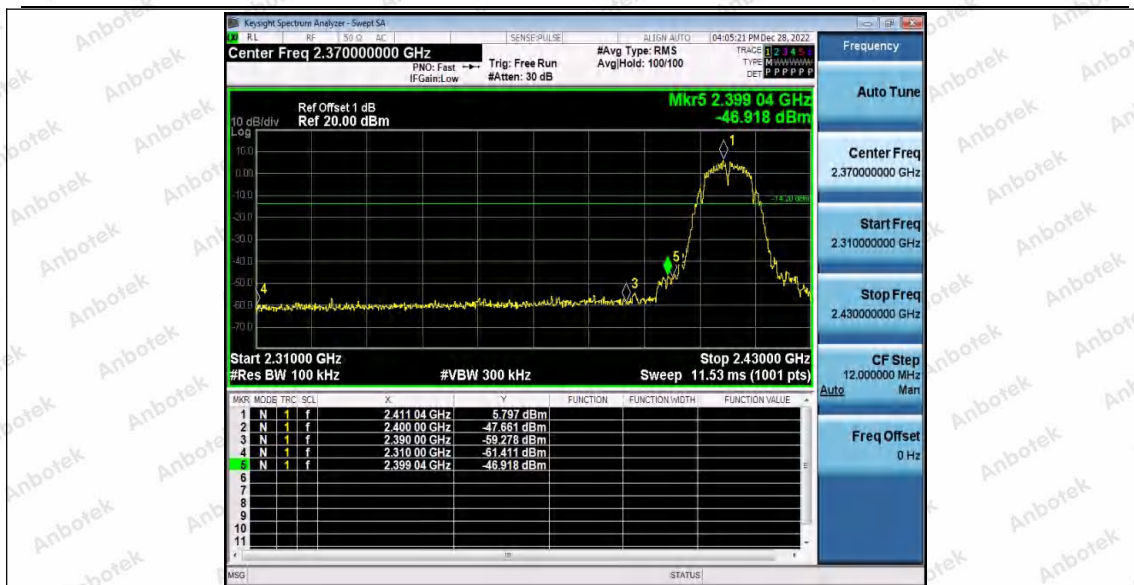
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11B_Ant1_High_2462



11B_Ant2_High_2462

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11B_Ant3_High_2462



11G_Ant1_Low_2412





11G_Ant2_Low_2412



11G_Ant3_Low_2412

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11G_Ant1_High_2462



11G_Ant2_High_2462

Shenzhen Anbotek Compliance Laboratory Limited

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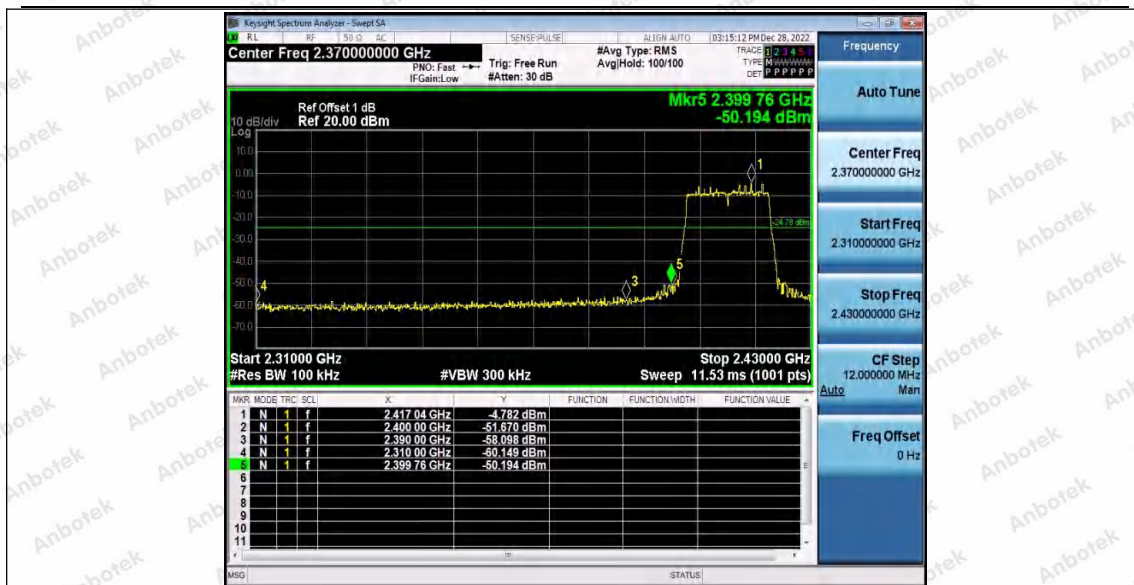
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11N20_Ant2_Low_2412



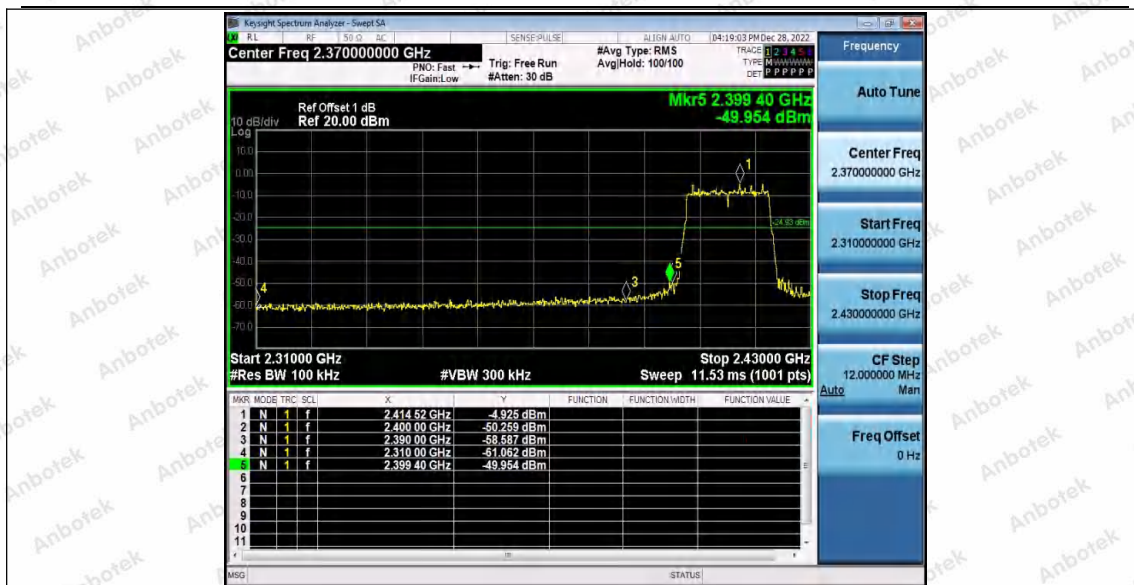
11N20_Ant3_Low_2412

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11N20_Ant1_High_2462



11N20_Ant2_High_2462

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11N40_Ant2_Low_2422



11N40_Ant3_Low_2422

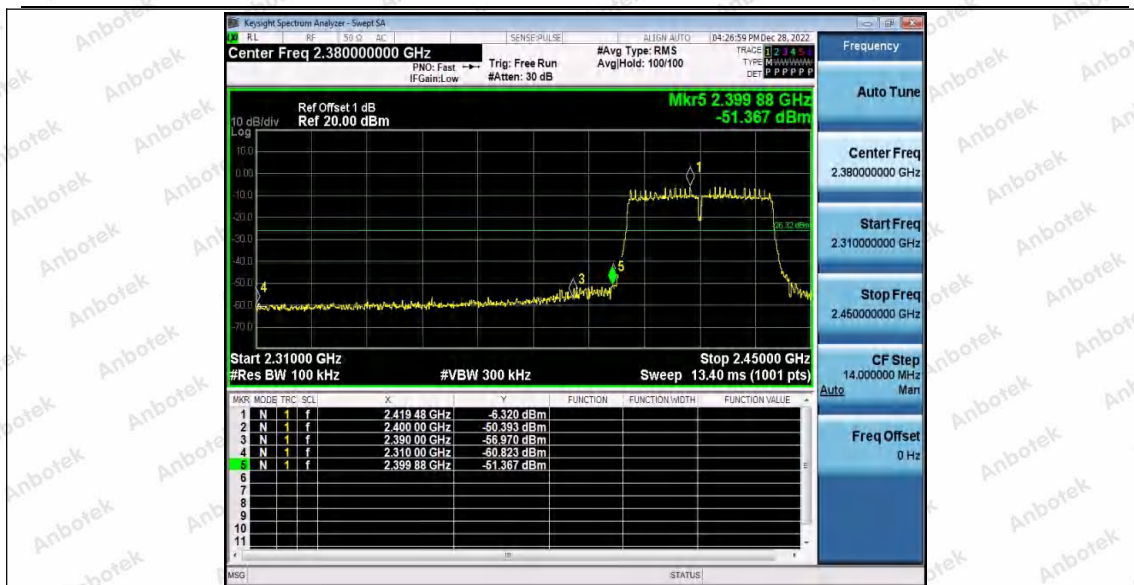
Shenzhen Anbotek Compliance Laboratory Limited

Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.
Tel: (86) 0755-26066440 Fax: (86) 0755-26014772 Email: service@anbotek.com

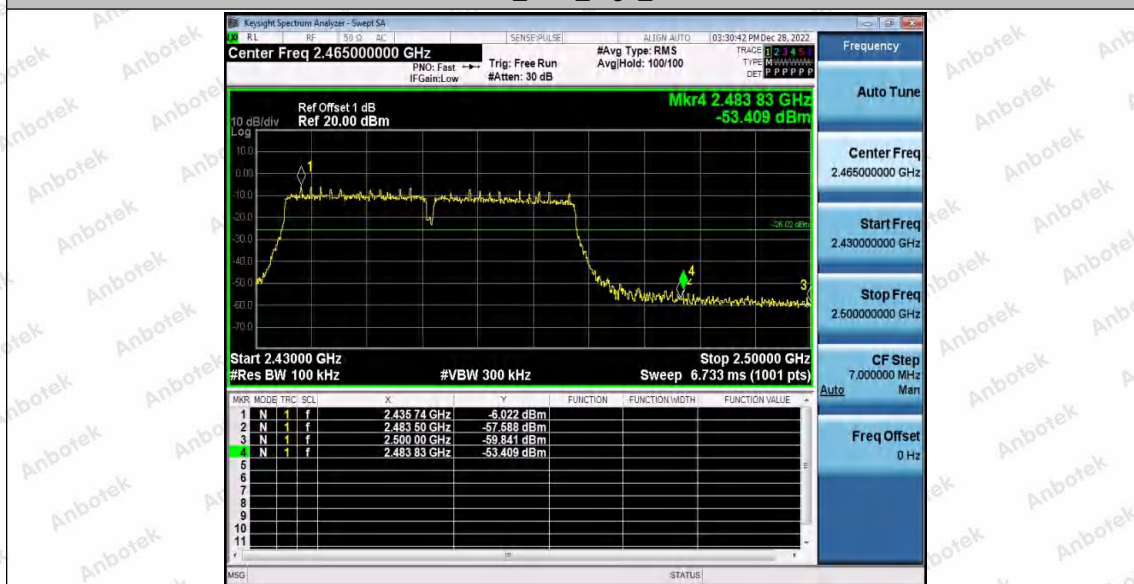


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11N40_Ant1_High_2452



11N40_Ant2_High_2452

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11N40_Ant3_High_2452



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Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	4.31	4.31	---	PASS
			30~1000	4.31	-68.4	≤-15.69	PASS
			1000~26500	4.31	-53.57	≤-15.69	PASS
	Ant2	2412	Reference	4.51	4.51	---	PASS
			30~1000	4.51	-67.99	≤-15.49	PASS
			1000~26500	4.51	-53.13	≤-15.49	PASS
	Ant3	2412	Reference	5.28	5.28	---	PASS
			30~1000	5.28	-68.24	≤-14.72	PASS
			1000~26500	5.28	-53.12	≤-14.72	PASS
	Ant1	2437	Reference	3.52	3.52	---	PASS
			30~1000	3.52	-68.72	≤-16.48	PASS
			1000~26500	3.52	-53.26	≤-16.48	PASS
	Ant2	2437	Reference	4.19	4.19	---	PASS
			30~1000	4.19	-68.49	≤-15.81	PASS
			1000~26500	4.19	-52.76	≤-15.81	PASS
	Ant3	2437	Reference	3.82	3.82	---	PASS
			30~1000	3.82	-69.14	≤-16.18	PASS
			1000~26500	3.82	-52.87	≤-16.18	PASS
	Ant1	2462	Reference	3.77	3.77	---	PASS
			30~1000	3.77	-69.22	≤-16.23	PASS
			1000~26500	3.77	-52.83	≤-16.23	PASS
	Ant2	2462	Reference	5.08	5.08	---	PASS
			30~1000	5.08	-68.83	≤-14.92	PASS
			1000~26500	5.08	-53.24	≤-14.92	PASS
	Ant3	2462	Reference	3.58	3.58	---	PASS
			30~1000	3.58	-68.15	≤-16.42	PASS
			1000~26500	3.58	-53.35	≤-16.42	PASS
11G	Ant1	2412	Reference	-3.85	-3.85	---	PASS
			30~1000	-3.85	-68.54	≤-23.85	PASS
			1000~26500	-3.85	-53.76	≤-23.85	PASS
	Ant2	2412	Reference	-1.24	-1.24	---	PASS
			30~1000	-1.24	-68.81	≤-21.24	PASS
			1000~26500	-1.24	-53.13	≤-21.24	PASS
	Ant3	2412	Reference	-2.41	-2.41	---	PASS
			30~1000	-2.41	-68	≤-22.41	PASS

