

FCC ID: 2APBOAN300
IC: 23717-AN300

Report_15.247-WIFI Appendix A

DTS Bandwidth

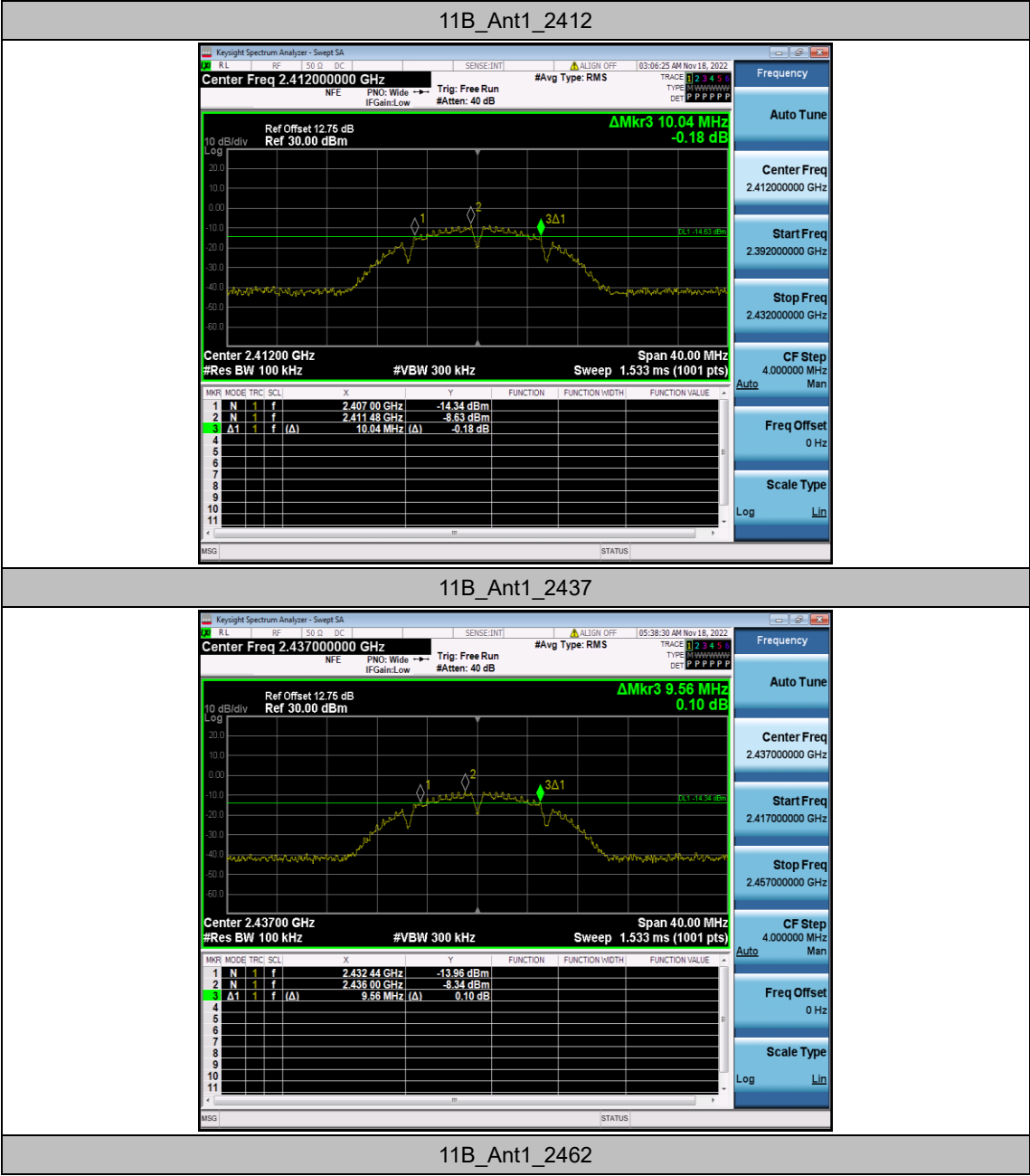
Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	10.040	2407.000	2417.040	0.5	PASS
		2437	9.560	2432.440	2442.000	0.5	PASS
		2462	9.560	2457.000	2466.560	0.5	PASS
11G	Ant1	2412	16.440	2403.800	2420.240	0.5	PASS
		2437	16.440	2428.800	2445.240	0.5	PASS
		2462	16.400	2453.800	2470.200	0.5	PASS
11N20SISO	Ant1	2412	17.760	2403.160	2420.920	0.5	PASS
		2437	17.600	2428.160	2445.760	0.5	PASS
		2462	17.680	2453.080	2470.760	0.5	PASS
11N40SISO	Ant1	2422	36.400	2403.760	2440.160	0.5	PASS
		2437	36.320	2418.760	2455.080	0.5	PASS
		2452	36.320	2433.760	2470.080	0.5	PASS

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Test Graphs



11B_Ant1_2437

Keyight Spectrum Analyzer - Sweep SA

RF: 150.0 DC

SENSE:INT

ALIGN OFF

05:38:30 AM Nov 18, 2022

Center Freq 2.437000000 GHz

NFE PNO: Wide IFGain:Low Trig: Free Run #Avg Type: RMS

TRACE 1 2 3 4 5 6 7 8 9 10 11

TYPE P P P P P P P P P P P P P P P P

DET P P P P P P P P P P P P P P P P

Ref Offset 12.75 dB

Ref 30.00 dBm

ΔMkr3 9.56 MHz

0.10 dB



Center 2.43700 GHz

#Res BW 100 kHz

#VBW 300 kHz

Span 40.00 MHz

Sweep 1.533 ms (1001 pts)

MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	2.432 44 GHz	-13.96 dBm			
2	N	1	f	2.436 00 GHz	-8.34 dBm			
Δ1	1	f	(Δ)	9.56 MHz (Δ)	0.10 dB			
4								
5								
6								
7								
8								
9								
10								
11								

MSG STATUS

Frequency

Auto Tune

Center Freq 2.437000000 GHz

Start Freq 2.417000000 GHz

Stop Freq 2.457000000 GHz

CF Step 4.000000 MHz

Man

Freq Offset 0 Hz

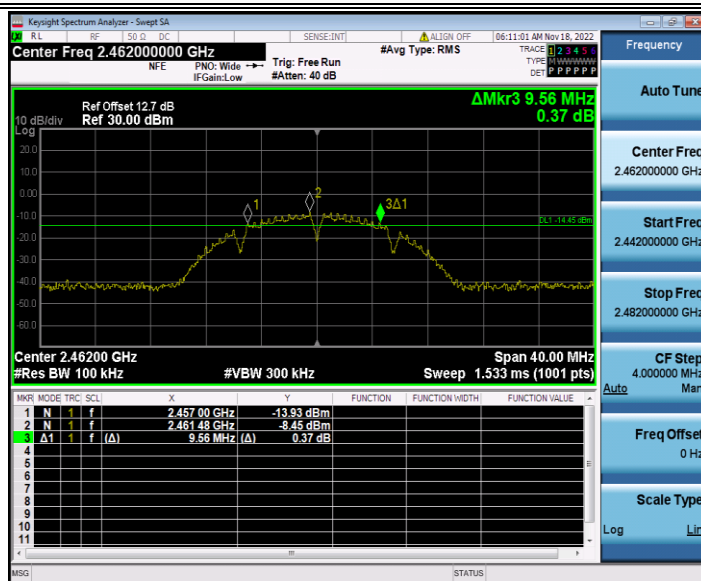
Scale Type

Log Lin

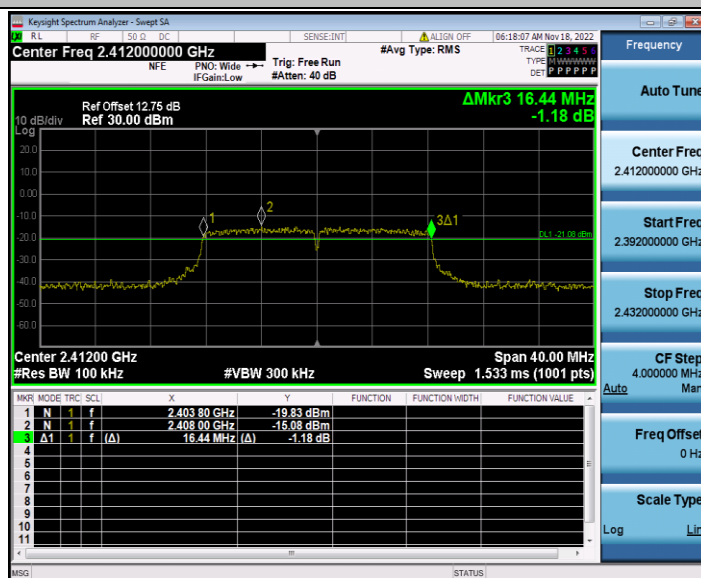
11B_Ant1_2462

2APBOAN300

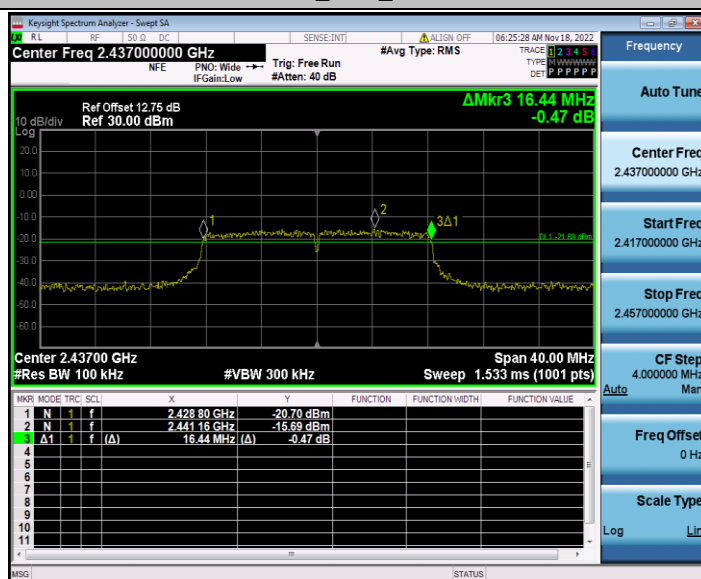
23717-AN300



11G Ant1 2412

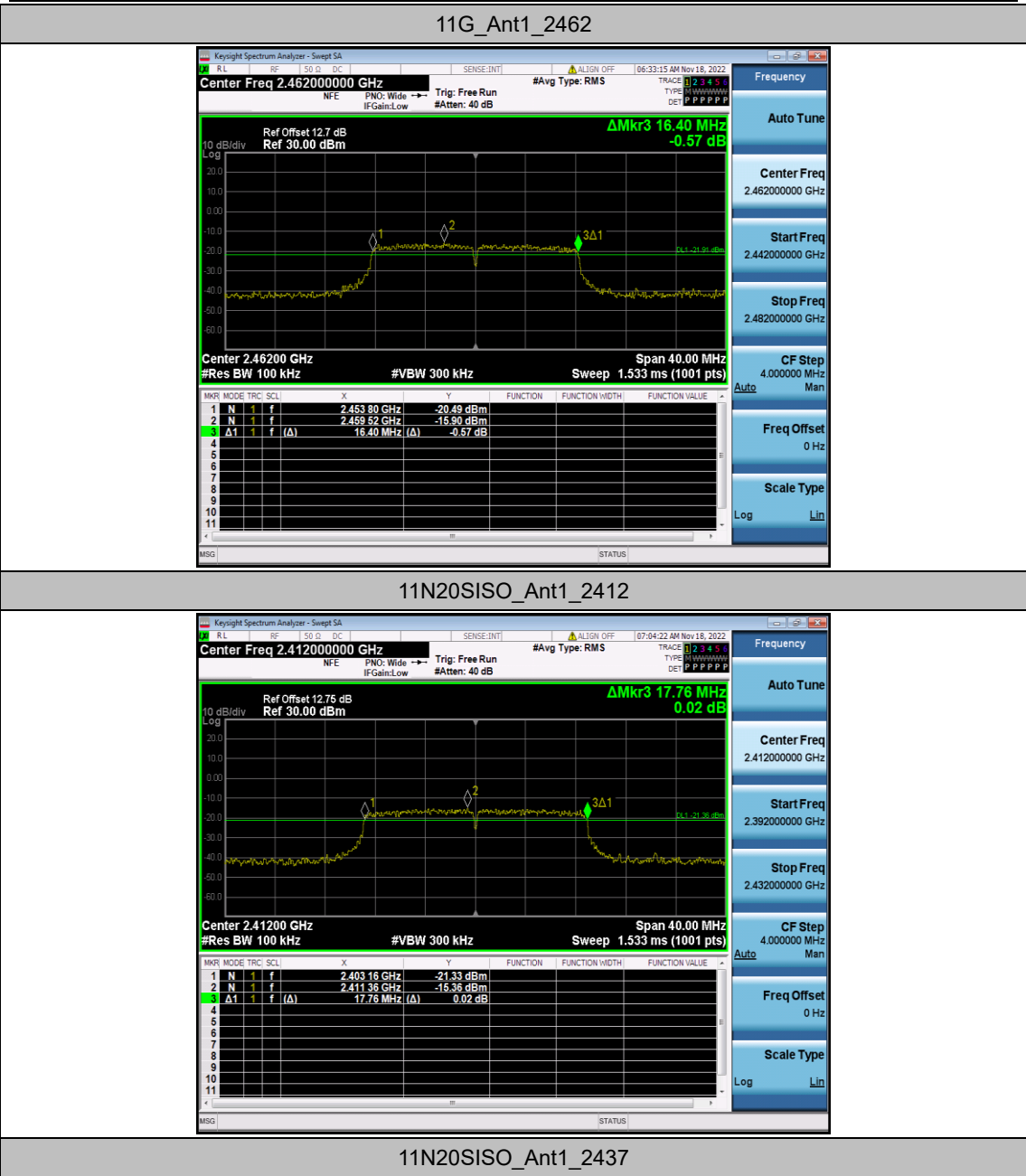


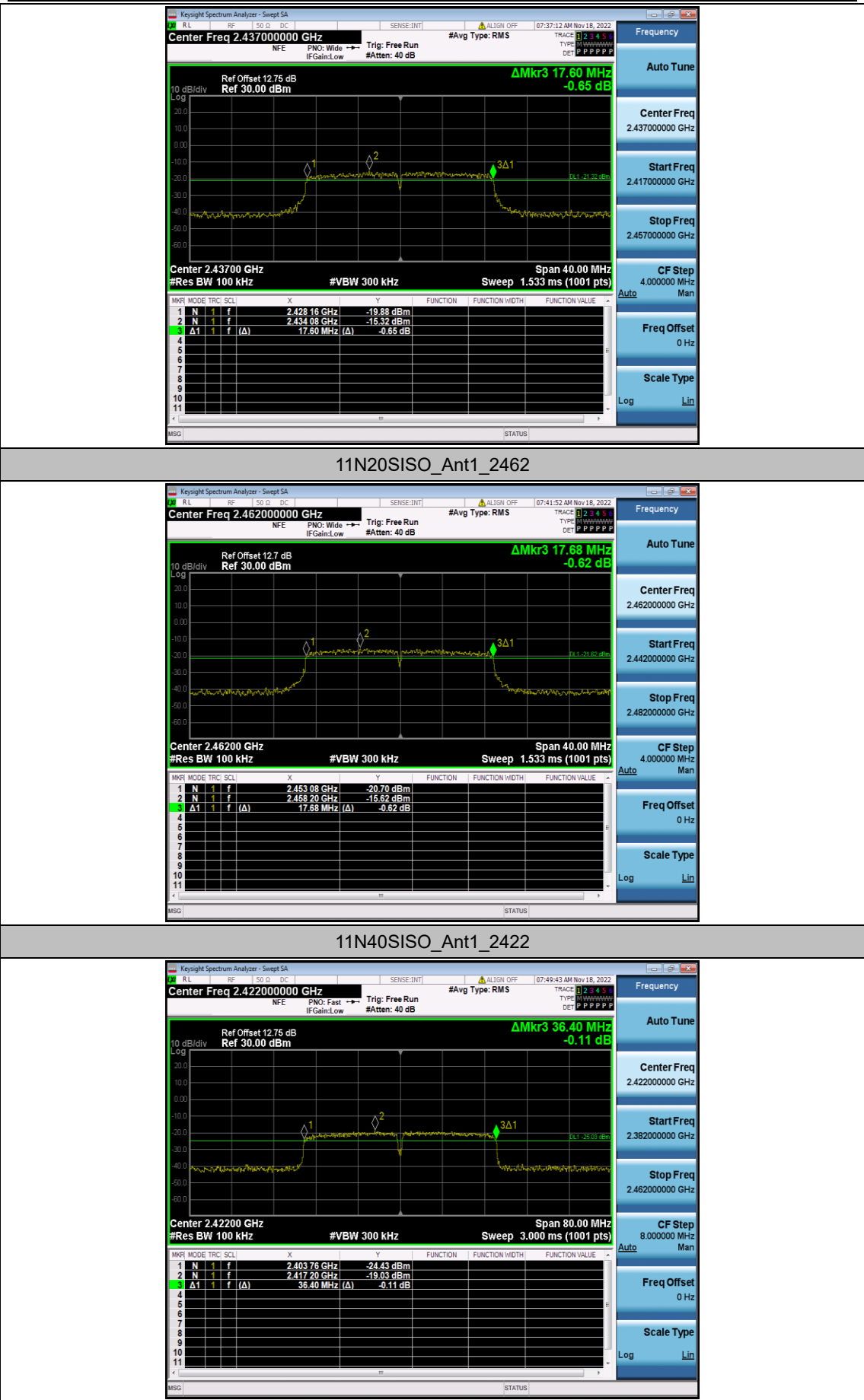
11G Ant1 2437



FCC ID:2APBOAN300

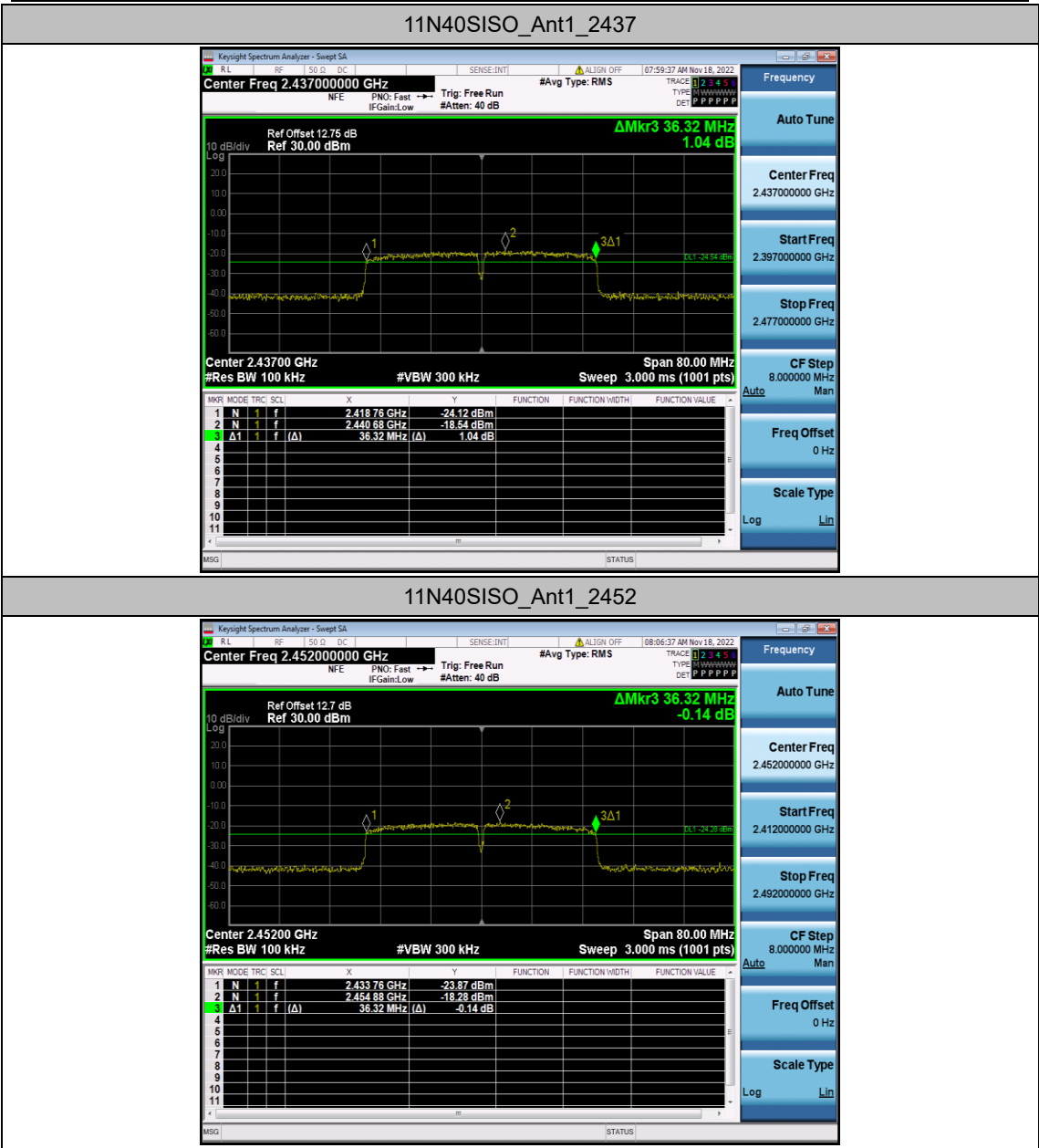
IC:23717-AN300





FCC ID:2APBOAN300

IC:23717-AN300



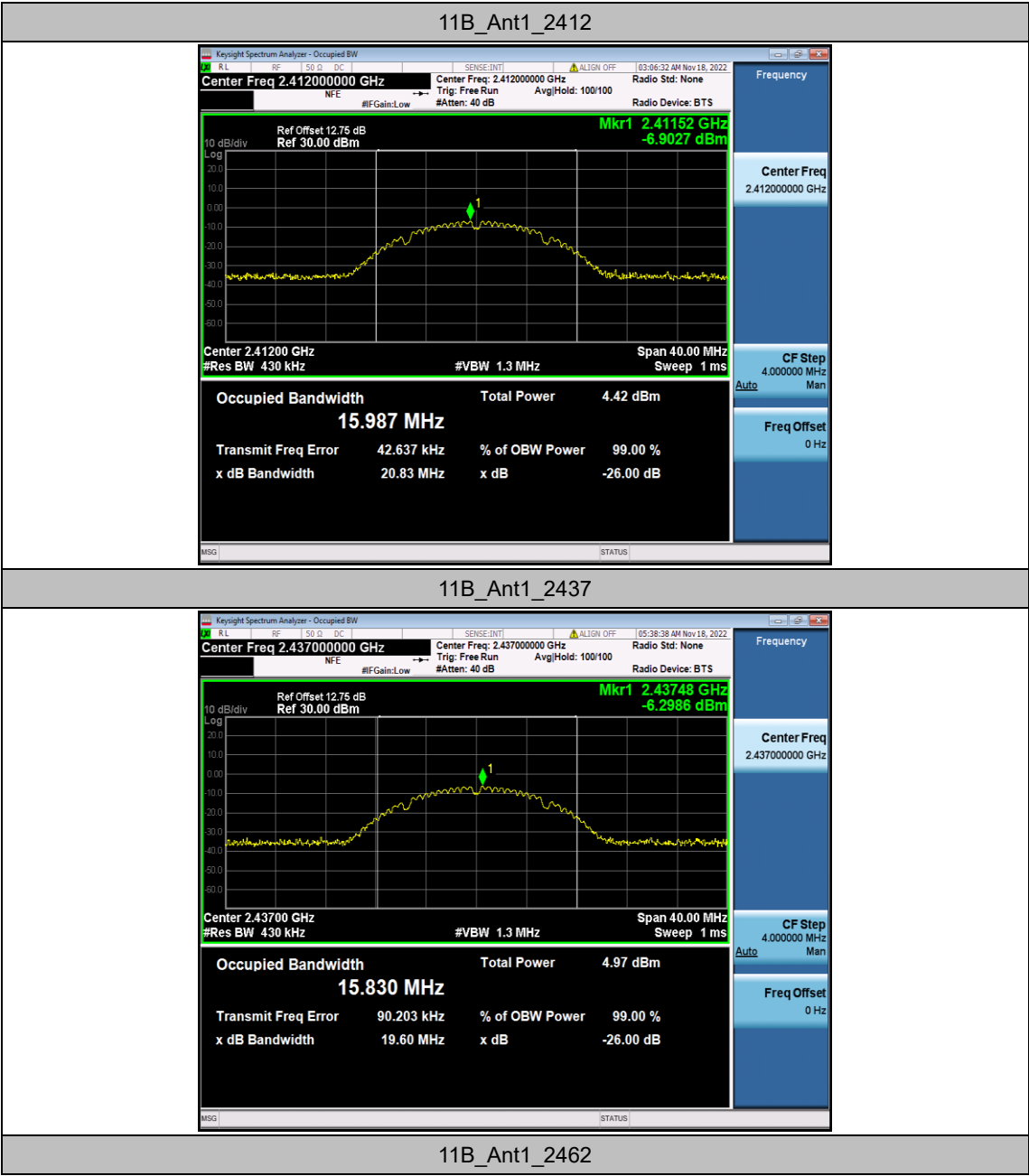
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Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]
11B	Ant1	2412	15.987	2404.0491	2420.0361
		2437	15.830	2429.1752	2445.0052
		2462	15.922	2454.0080	2469.9300
11G	Ant1	2412	17.297	2403.2597	2420.5567
		2437	17.482	2428.1756	2445.6576
		2462	17.458	2453.1330	2470.5910
11N20SISO	Ant1	2412	18.263	2402.8601	2421.1231
		2437	18.329	2427.8010	2446.1300
		2462	18.329	2452.7009	2471.0299
11N40SISO	Ant1	2422	36.949	2403.5087	2440.4577
		2437	36.868	2418.5527	2455.4207
		2452	36.686	2433.6143	2470.3003

Test Graphs



11B_Ant1_2437

Keysight Spectrum Analyzer - Occupied BW

Center Freq 2.437000000 GHz

Ref Offset 12.75 dB
Ref 30.00 dBm

10 dB/div
Log

Center 2.43700 GHz
#Res BW 430 kHz

Occupied Bandwidth
15.830 MHz

Transmit Freq Error 90.203 kHz
x dB Bandwidth 19.60 MHz

Total Power 4.97 dBm
% of OBW Power 99.00 %
x dB -26.00 dB

MSG

STATUS

Center Freq: 2.437000000 GHz

Trig: Free Run
#Atten: 40 dB

Avg/Hold: 100/100

Radio Std: None

Radio Device: BTS

Mkr1 2.43748 GHz
-6.2986 dBm

Span 40.00 MHz
Sweep 1 ms

#VBW 1.3 MHz

Ref Offset 12.75 dB
Ref 30.00 dBm

Frequency

Center Freq
2.437000000 GHz

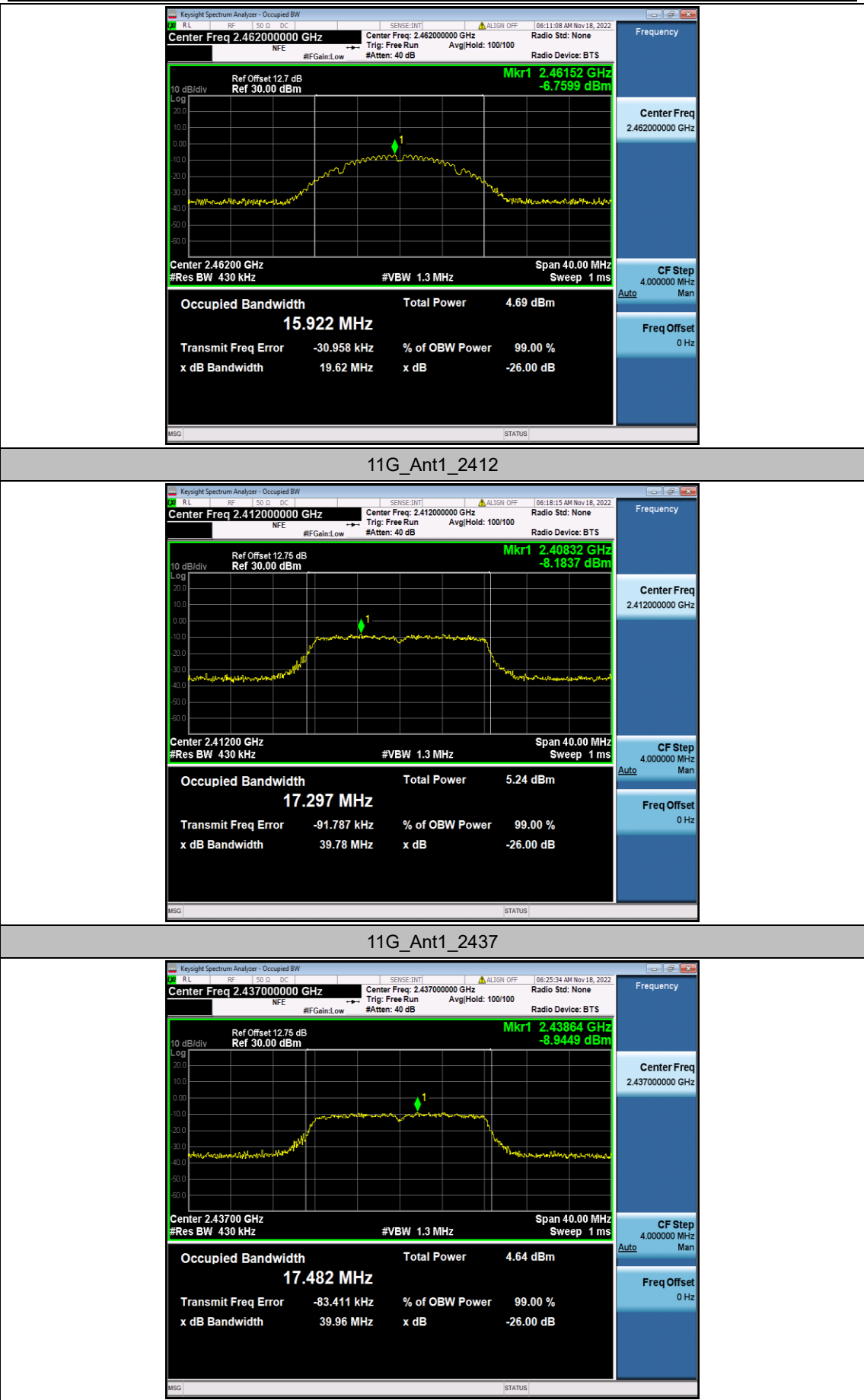
CF Step
4.000000 MHz
Auto Man

Freq Offset
0 Hz

11B_Ant1_2462

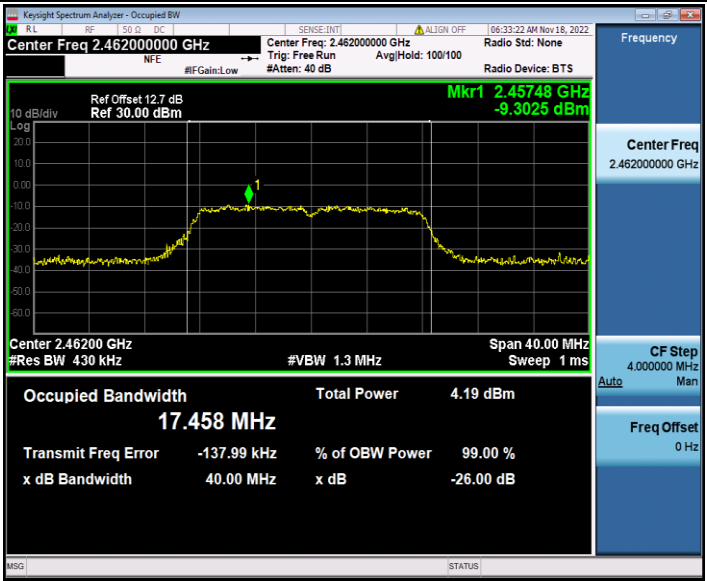
FCC ID:2APBOAN300

IC:23717-AN300

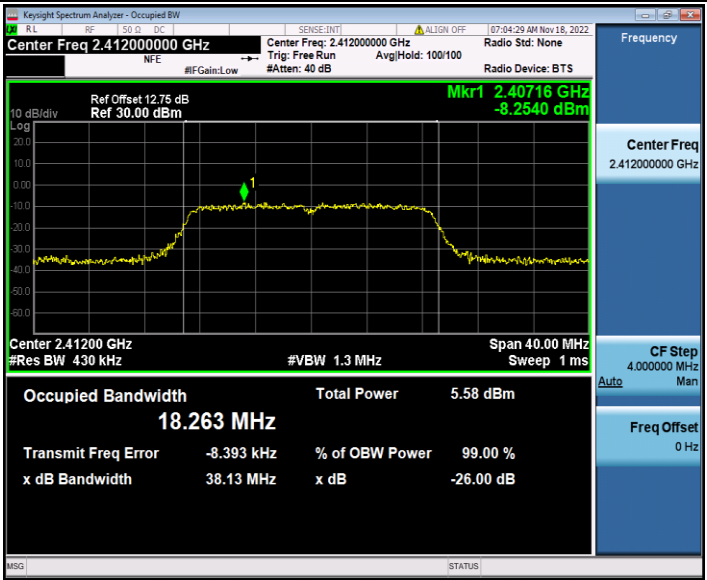


FCC ID: 2APBOAN300
IC: 23717-AN300

11G_Ant1_2462



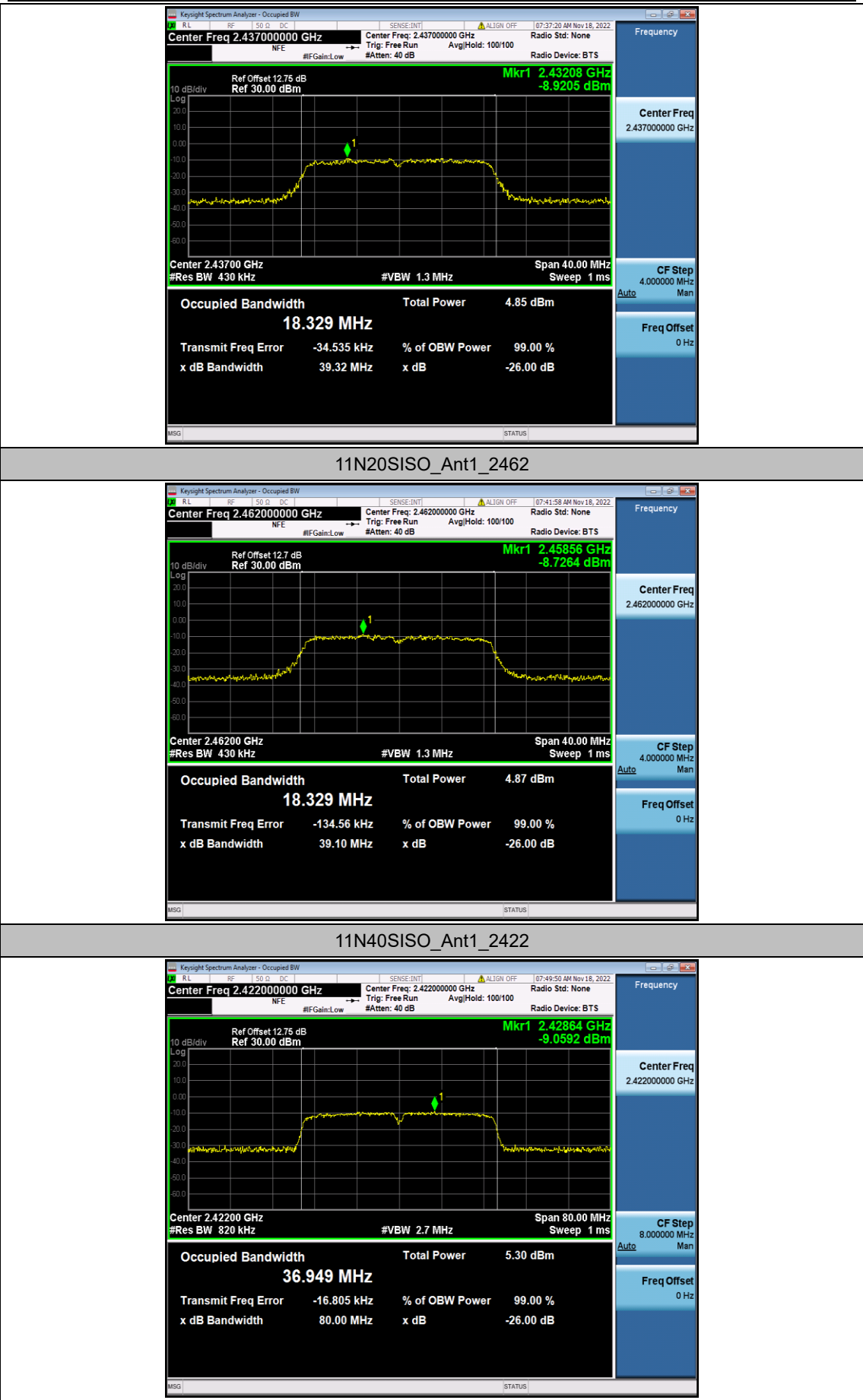
11N20SISO_Ant1_2412

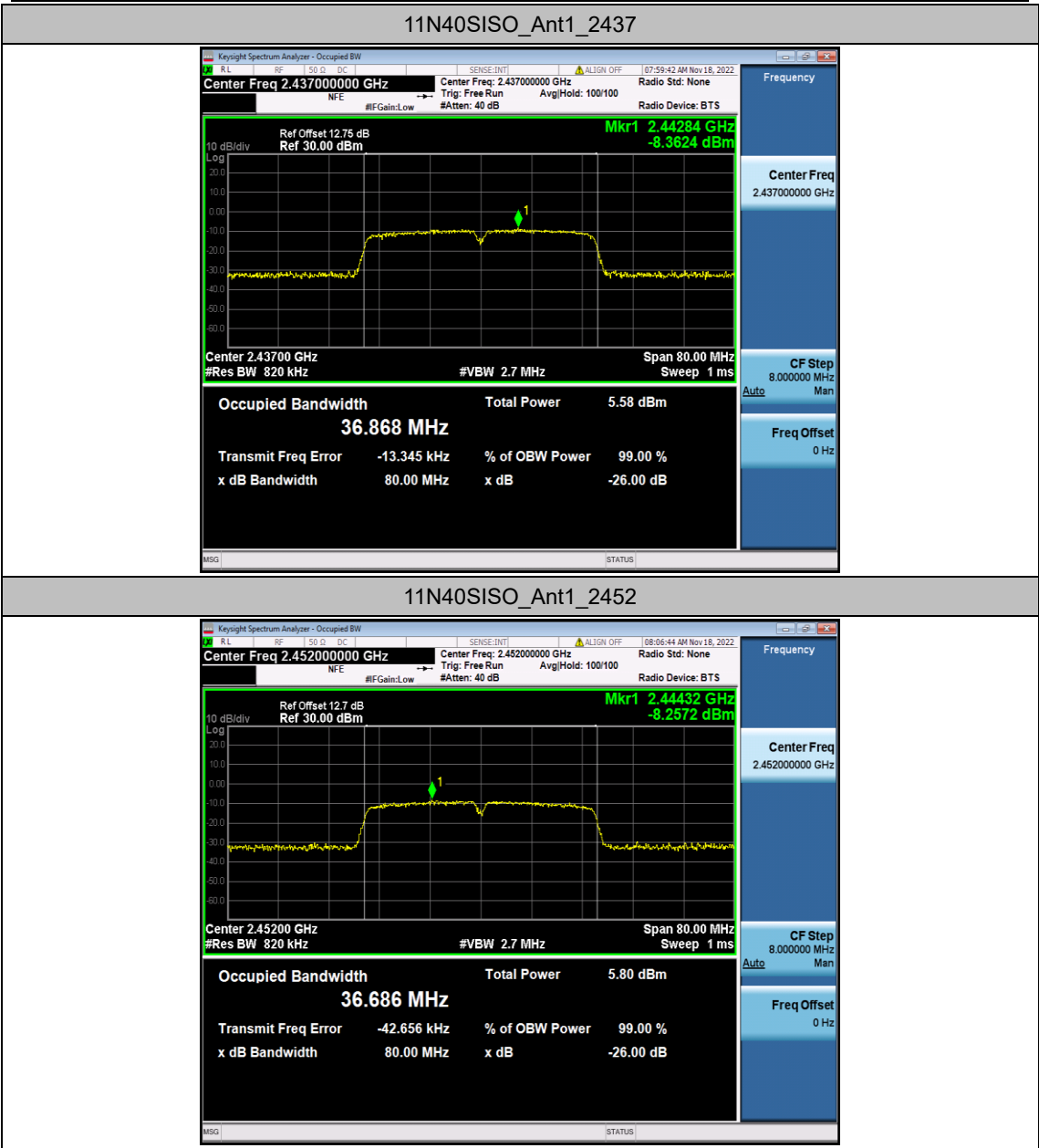


11N20SISO_Ant1_2437

FCC ID:2APBOAN300

IC:23717-AN300





FCC ID: 2APBOAN300

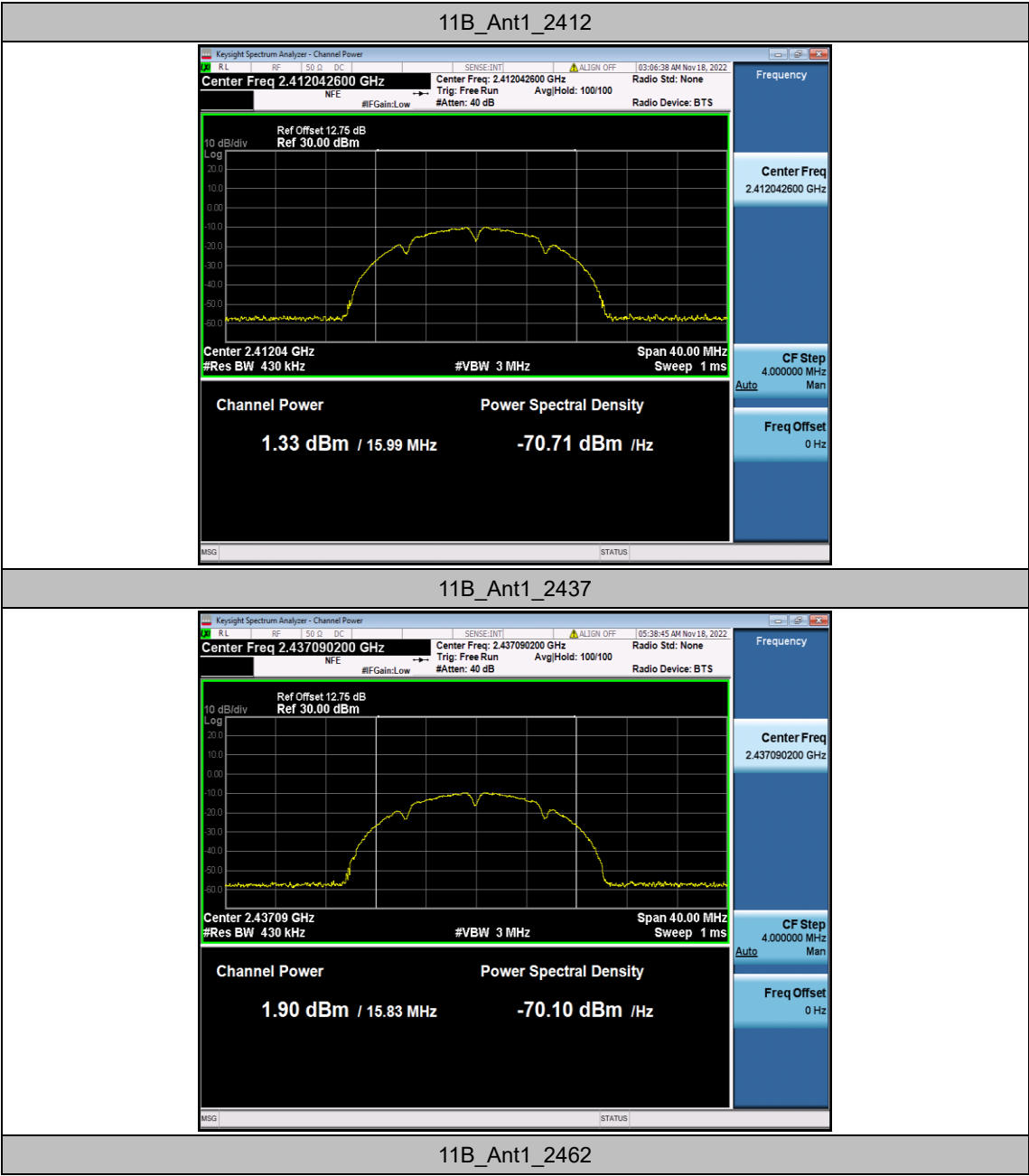
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Maximum conducted output power

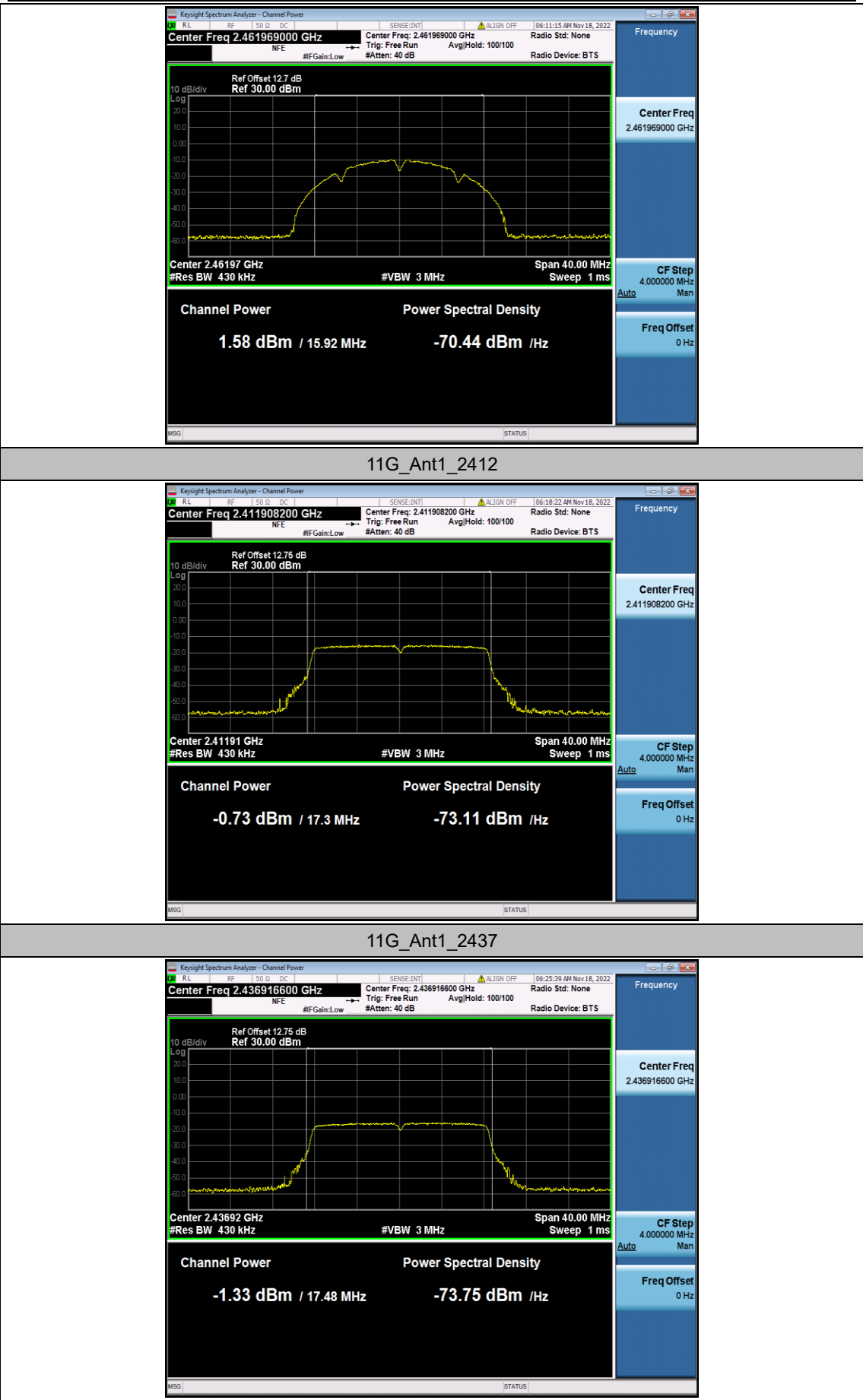
Test Result Peak

TestMode	Antenna	Frequen cy[MHz]	Peak Power[dBm]	Conducted Limit[dBm]	EIRP [dBm]	EIRP Limit[dBm]	Verdict
11B	Ant1	2412	1.33	≤30.00	3.57	≤36.00	PASS
		2437	1.90	≤30.00	4.14	≤36.00	PASS
		2462	1.58	≤30.00	3.82	≤36.00	PASS
11G	Ant1	2412	-0.73	≤30.00	1.51	≤36.00	PASS
		2437	-1.33	≤30.00	0.91	≤36.00	PASS
		2462	-1.81	≤30.00	0.43	≤36.00	PASS
11N20SIS O	Ant1	2412	-0.55	≤30.00	1.69	≤36.00	PASS
		2437	-1.24	≤30.00	1.00	≤36.00	PASS
		2462	-1.25	≤30.00	0.99	≤36.00	PASS
11N40SIS O	Ant1	2422	-1.65	≤30.00	0.59	≤36.00	PASS
		2437	-1.34	≤30.00	0.90	≤36.00	PASS
		2452	-1.16	≤30.00	1.08	≤36.00	PASS

Test Graphs Peak

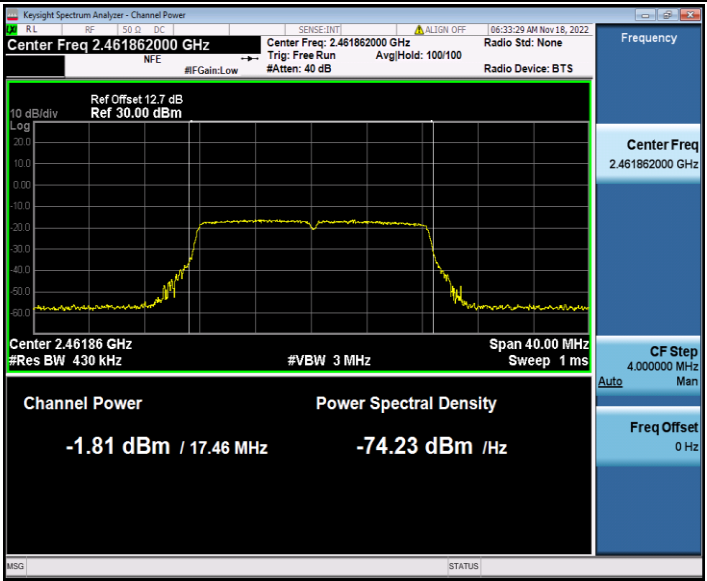


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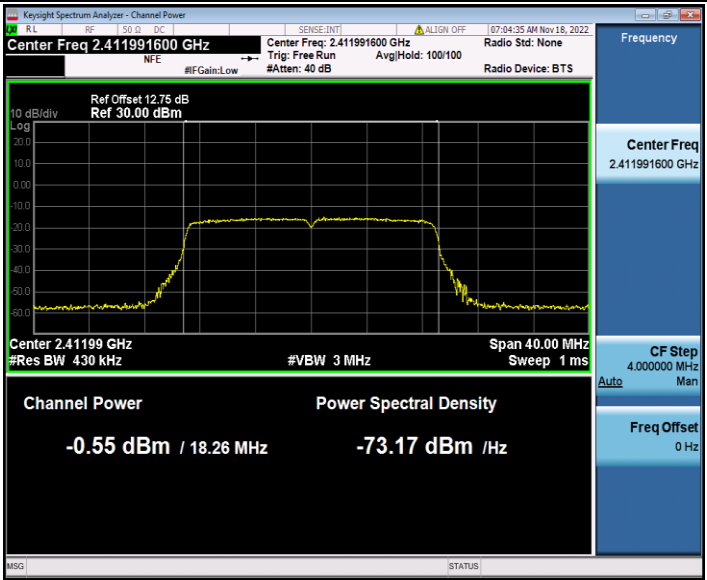


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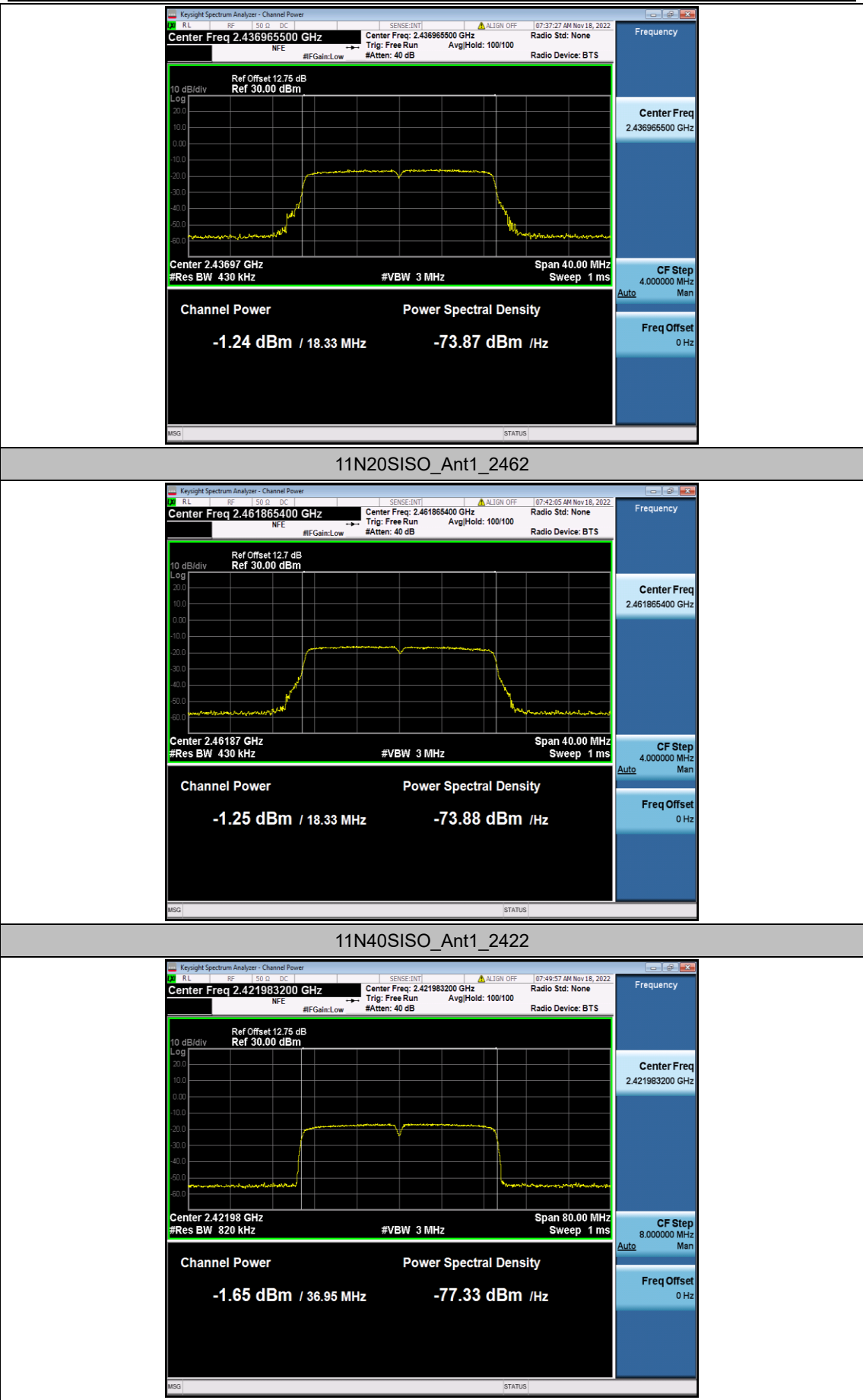
11G_Ant1_2462



11N20SISO_Ant1_2412



11N20SISO_Ant1_2437



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