



Appendix C

RF Test Data for 2.4GWIFI (Conducted Measurement)

Product Name: IP PHONE

Test Model: CIP280V2

Environmental Conditions

Temperature:	23.2°C
Relative Humidity:	53.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Jerry Chu
Supervised by:	Can Kun





C.1 DTS Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	8.040	2407.960	2416.000	0.5	PASS
11B	Ant1	2437	10.080	2431.920	2442.000	0.5	PASS
11B	Ant1	2462	8.000	2458.000	2466.000	0.5	PASS
11G	Ant1	2412	15.080	2404.480	2419.560	0.5	PASS
11G	Ant1	2437	14.480	2429.400	2443.880	0.5	PASS
11G	Ant1	2462	16.040	2453.840	2469.880	0.5	PASS
11N20SISO	Ant1	2412	17.240	2403.520	2420.760	0.5	PASS
11N20SISO	Ant1	2437	17.560	2428.200	2445.760	0.5	PASS
11N20SISO	Ant1	2462	17.280	2453.520	2470.800	0.5	PASS
11N40SISO	Ant1	2422	35.040	2404.480	2439.520	0.5	PASS
11N40SISO	Ant1	2437	32.640	2421.960	2454.600	0.5	PASS
11N40SISO	Ant1	2452	35.040	2434.480	2469.520	0.5	PASS

Note :offset=System attenuation +cabal loss



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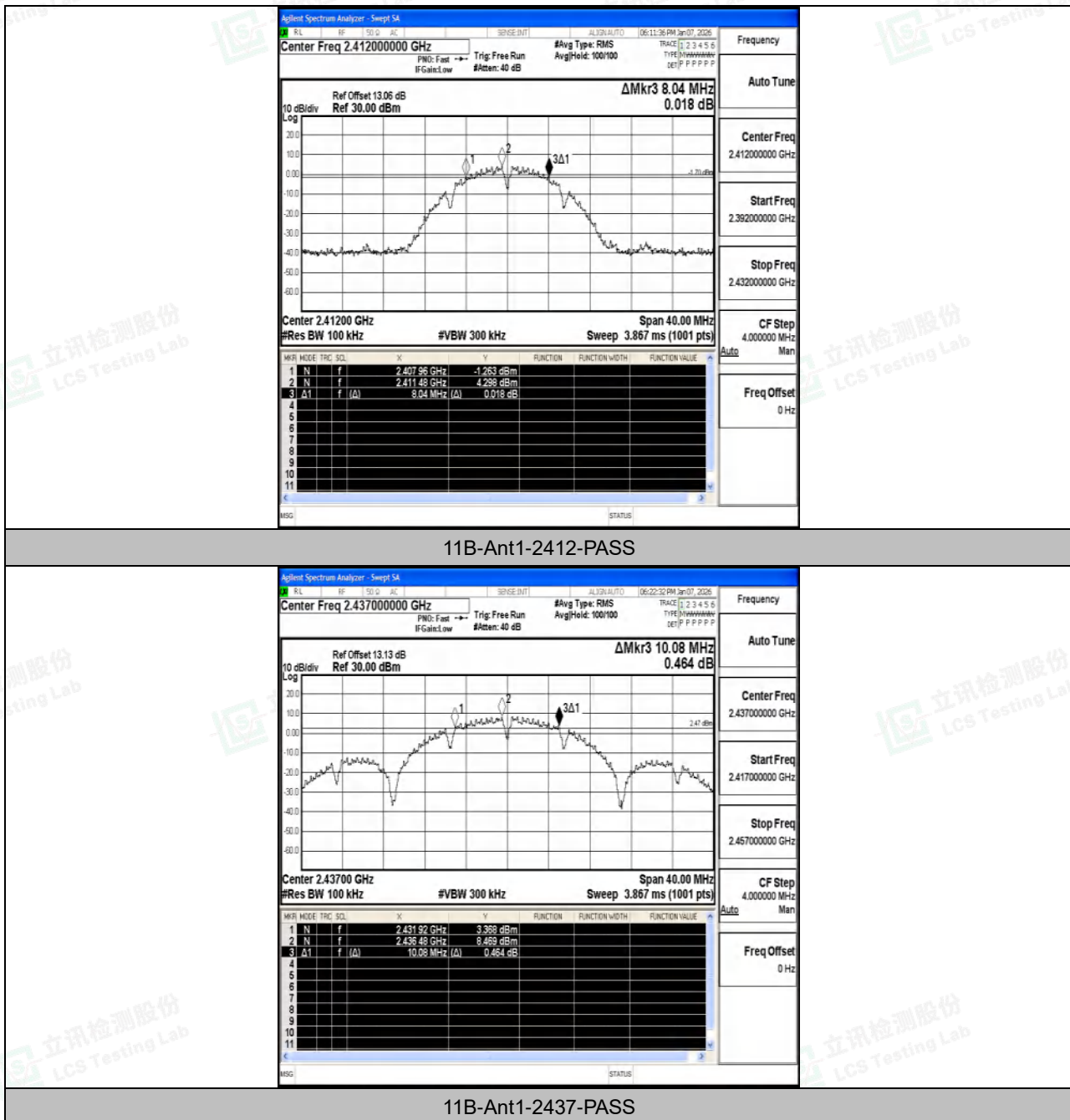
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Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

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Test Graphs

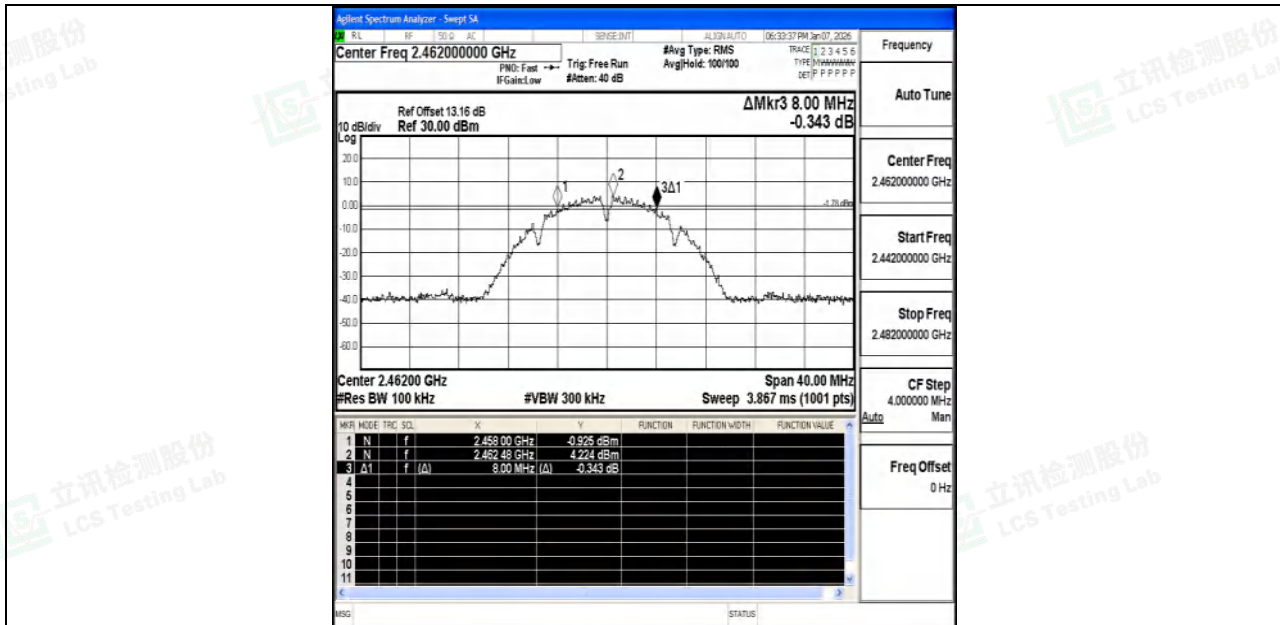


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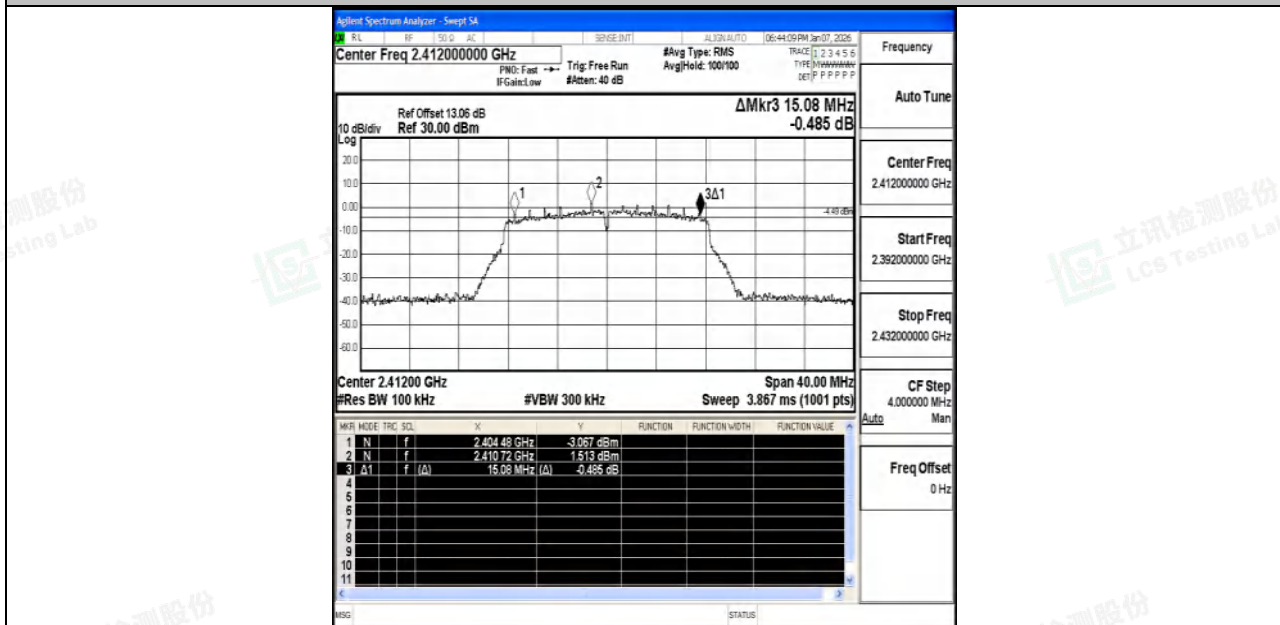
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11B-Ant1-2462-PASS



11G-Ant1-2412-PASS

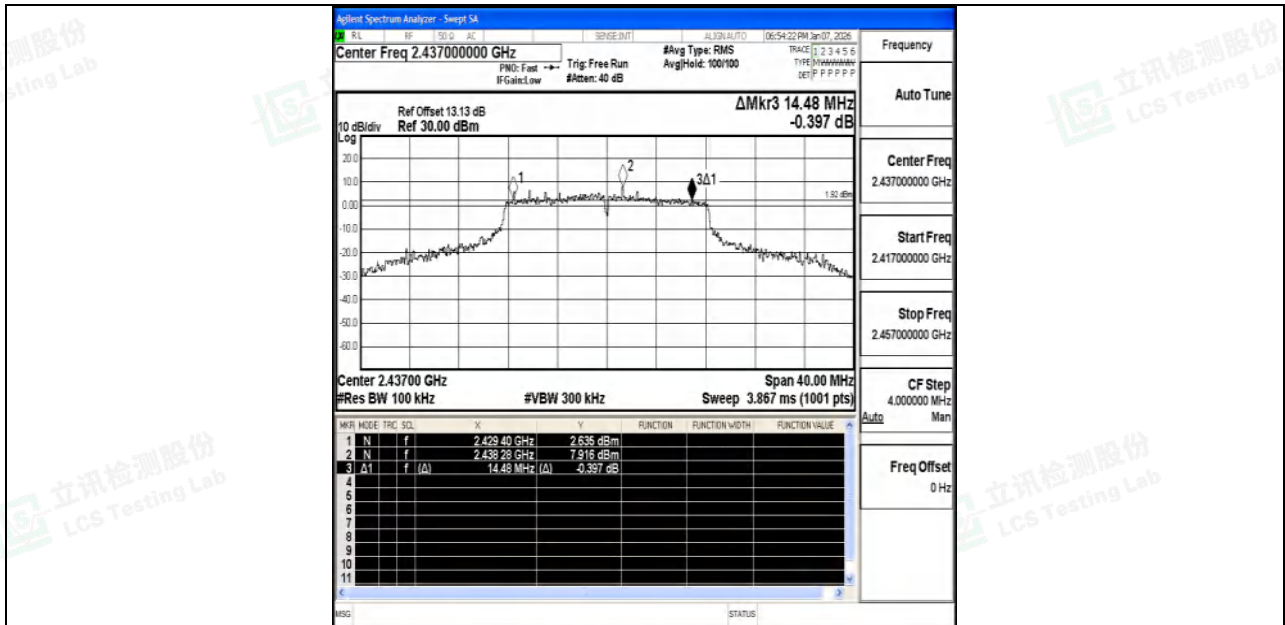


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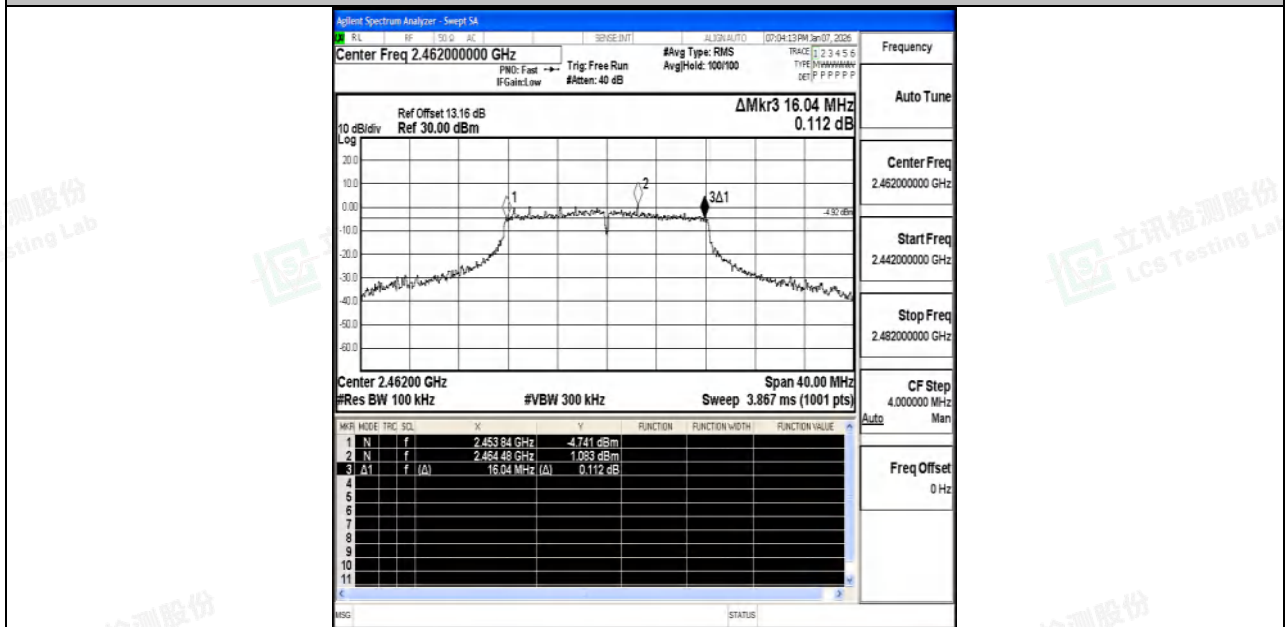
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11G-Ant1-2437-PASS



11G-Ant1-2462-PASS

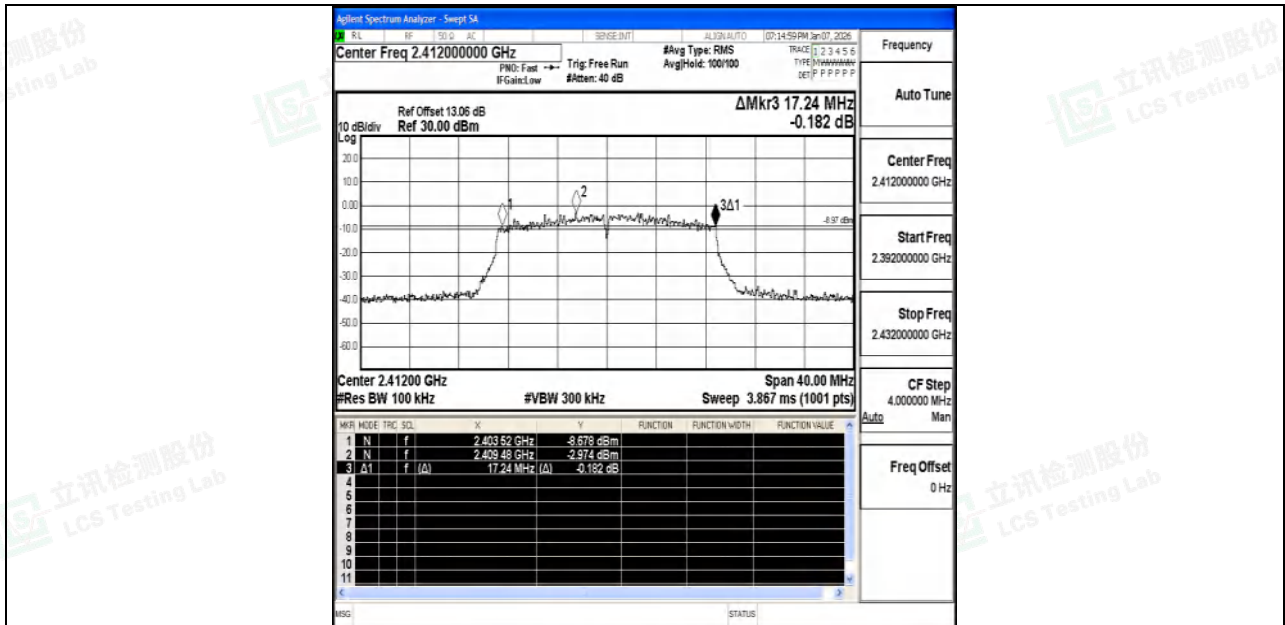


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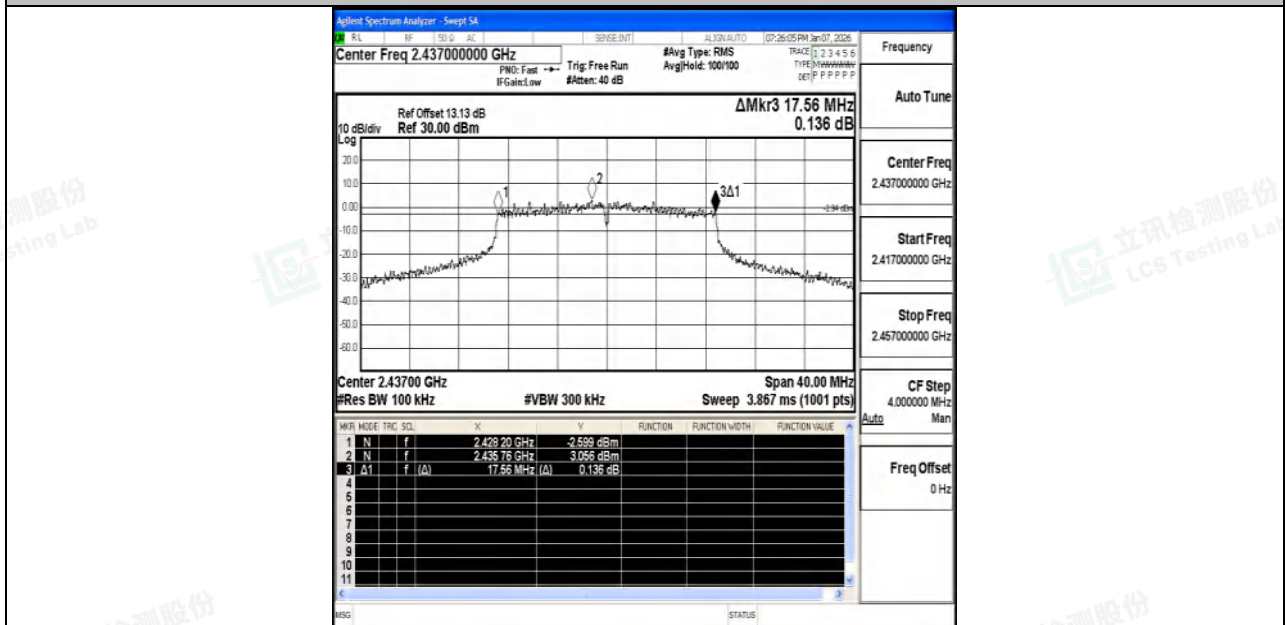
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11N20SISO-Ant1-2412-PASS



11N20SISO-Ant1-2437-PASS

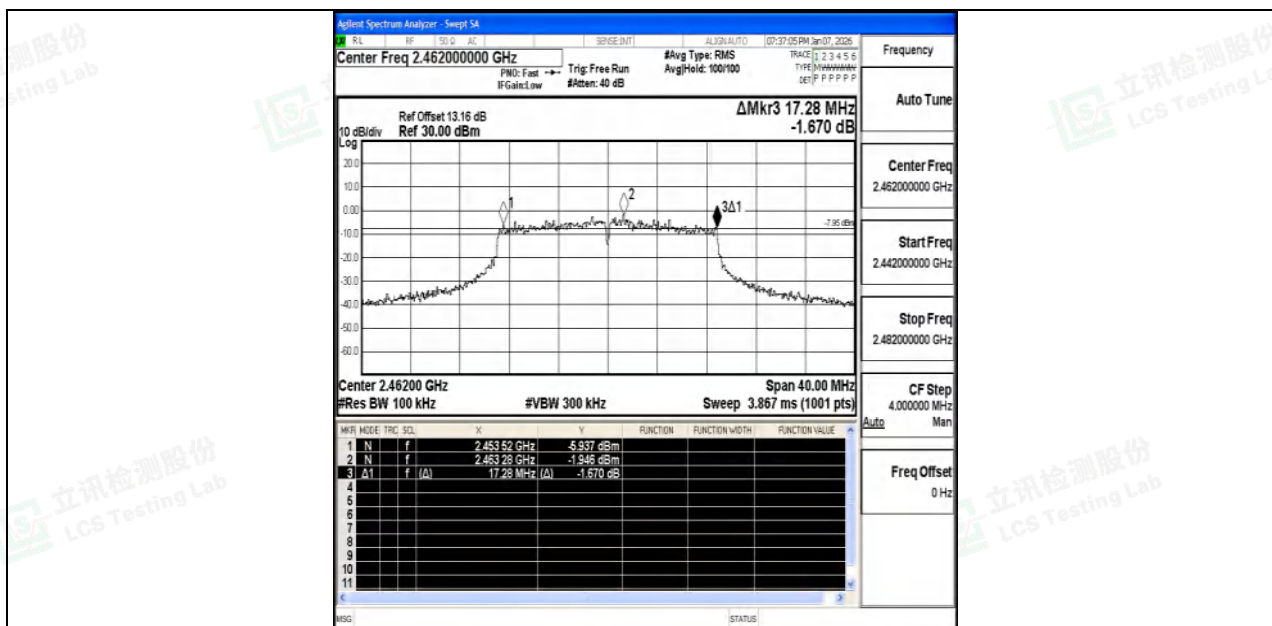


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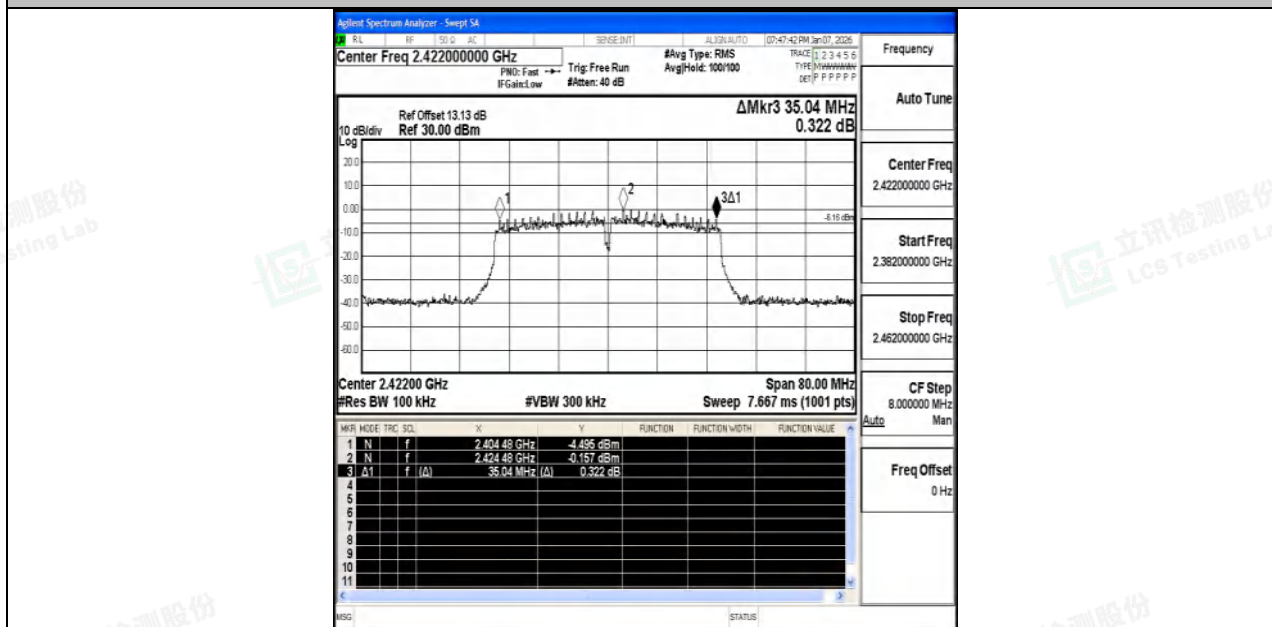
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11N20SISO-Ant1-2462-PASS



11N40SISO-Ant1-2422-PASS

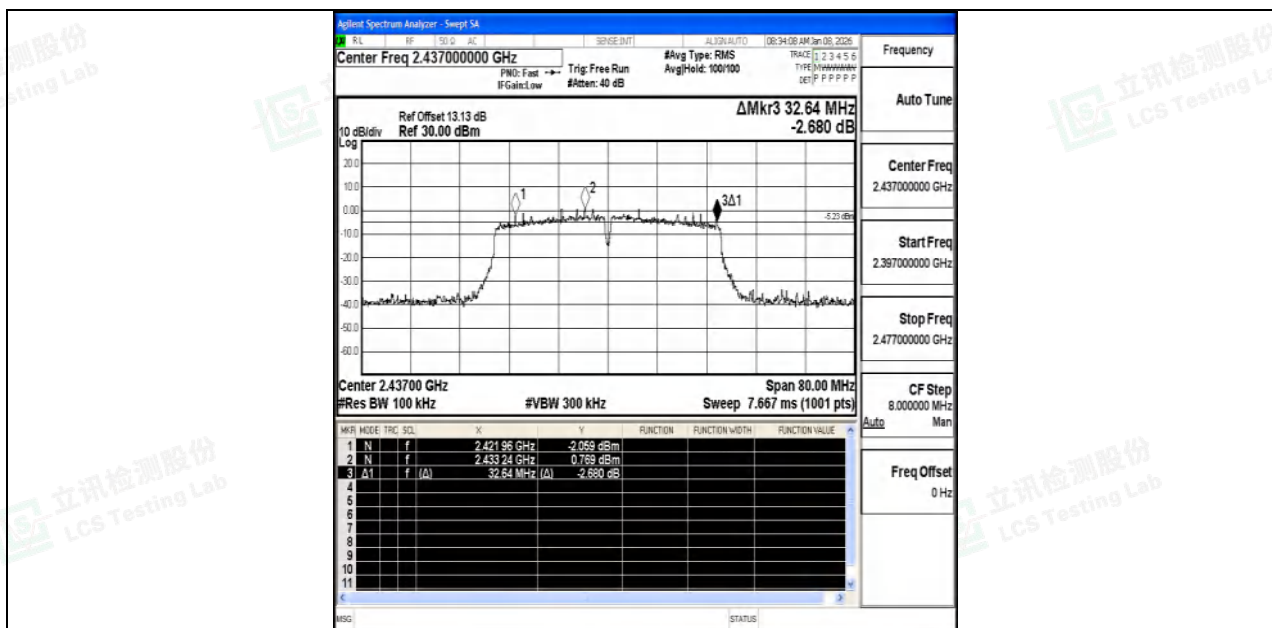


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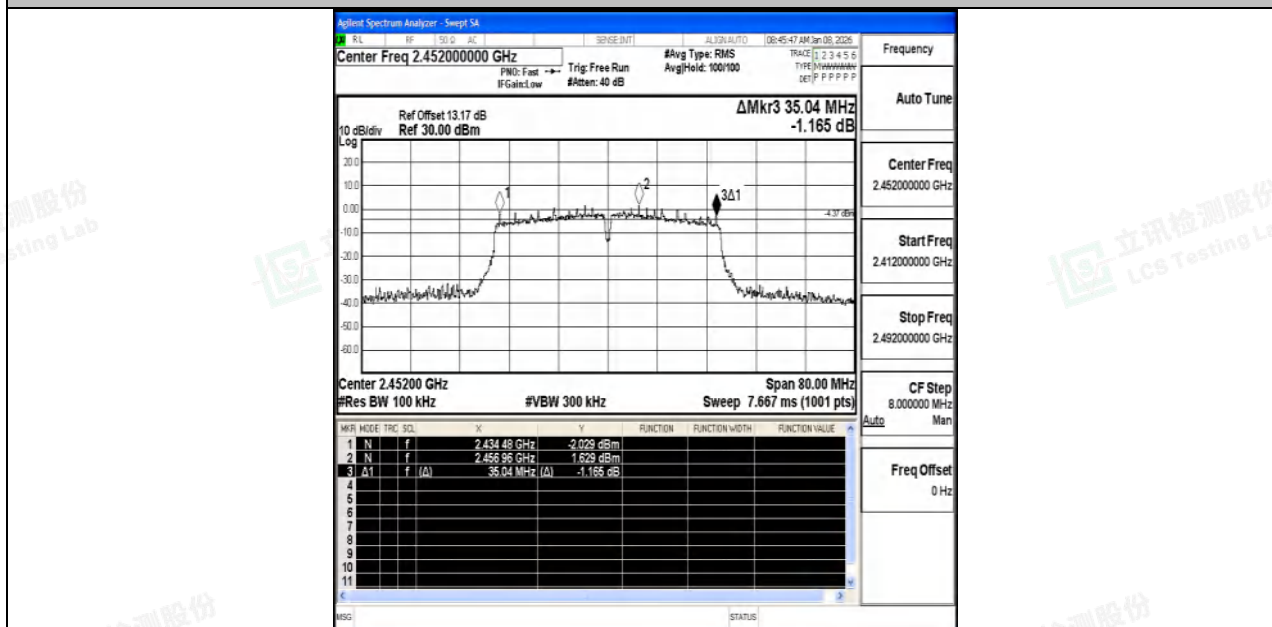
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11N40SISO-Ant1-2437-PASS



11N40SISO-Ant1-2452-PASS



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Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant2	2412	8.160	2407.920	2416.080	0.5	PASS
11B	Ant2	2437	10.280	2431.840	2442.120	0.5	PASS
11B	Ant2	2462	8.200	2457.880	2466.080	0.5	PASS
11G	Ant2	2412	15.920	2404.160	2420.080	0.5	PASS
11G	Ant2	2437	16.240	2428.800	2445.040	0.5	PASS
11G	Ant2	2462	16.320	2453.840	2470.160	0.5	PASS
11N20SISO	Ant2	2412	17.040	2403.440	2420.480	0.5	PASS
11N20SISO	Ant2	2437	17.400	2428.240	2445.640	0.5	PASS
11N20SISO	Ant2	2462	17.240	2453.280	2470.520	0.5	PASS
11N40SISO	Ant2	2422	35.440	2404.320	2439.760	0.5	PASS
11N40SISO	Ant2	2437	35.680	2419.160	2454.840	0.5	PASS
11N40SISO	Ant2	2452	35.520	2434.240	2469.760	0.5	PASS

Note :offset=System attenuation +cabal loss



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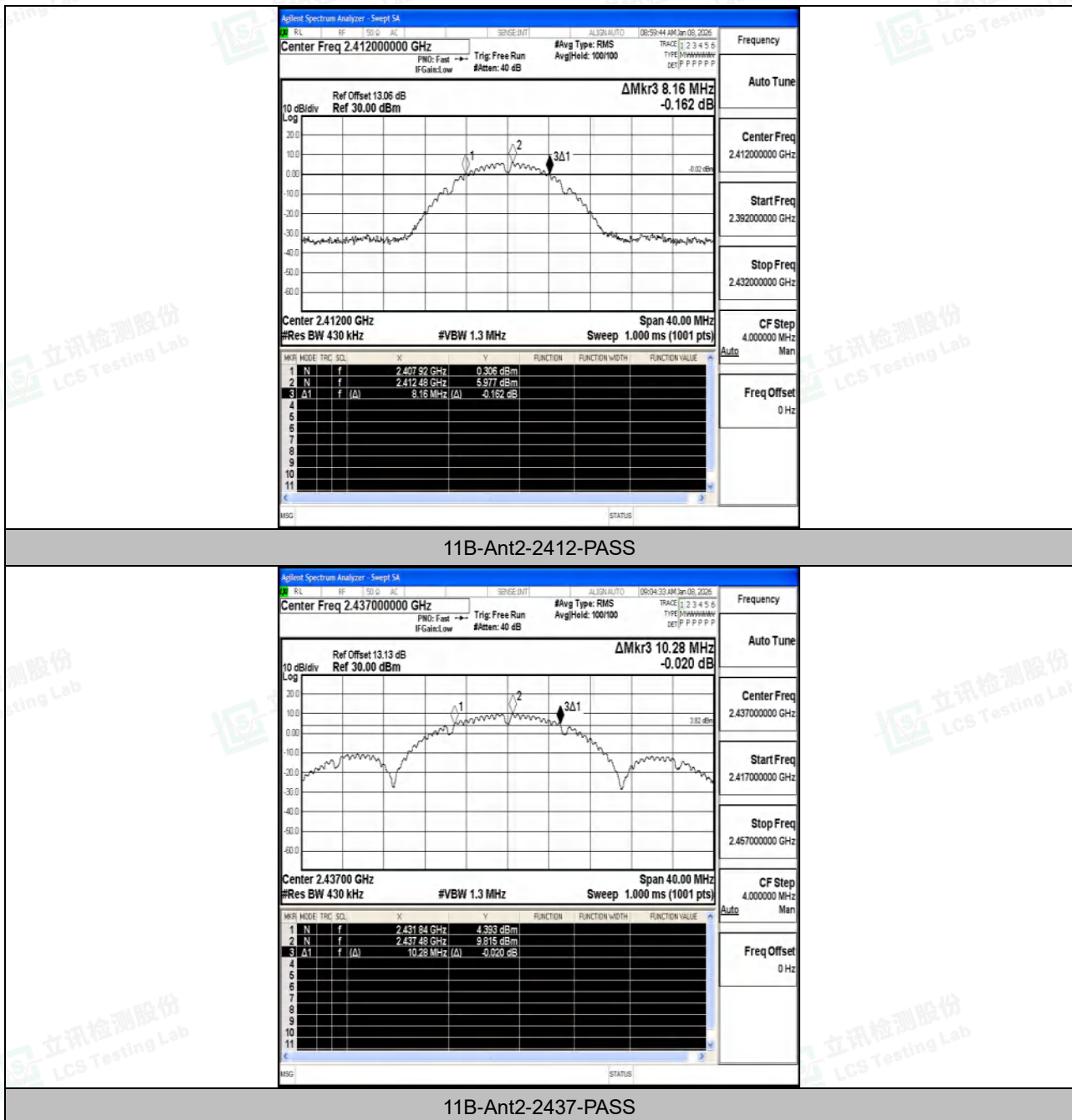
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Test Graphs

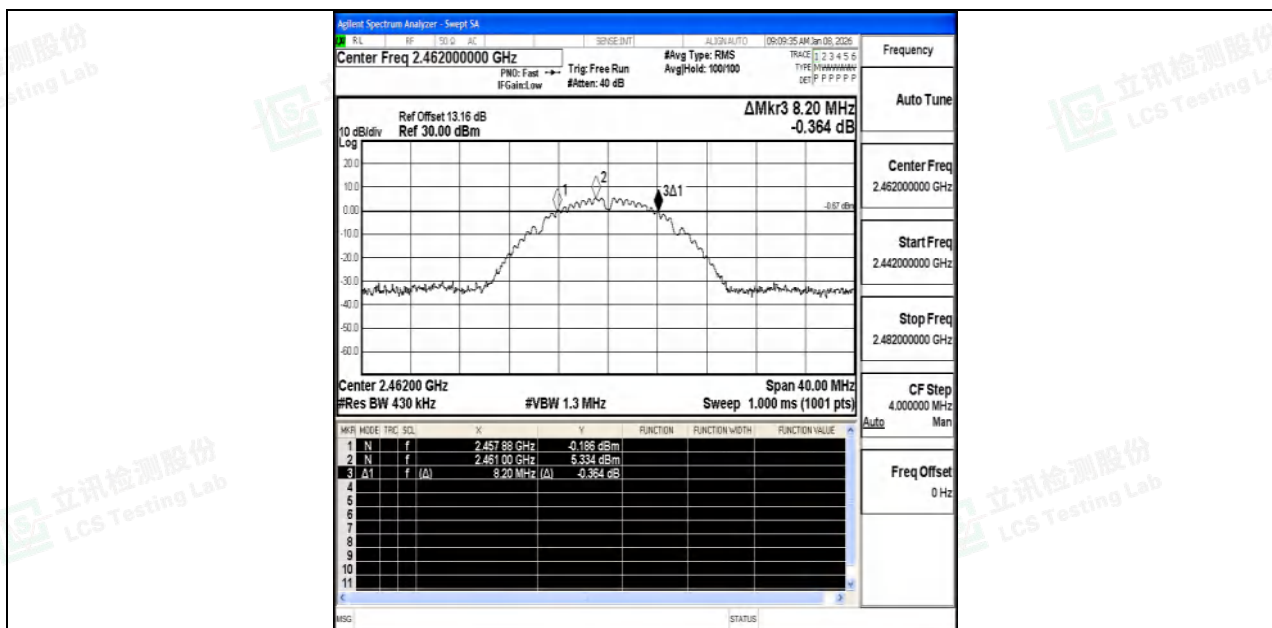


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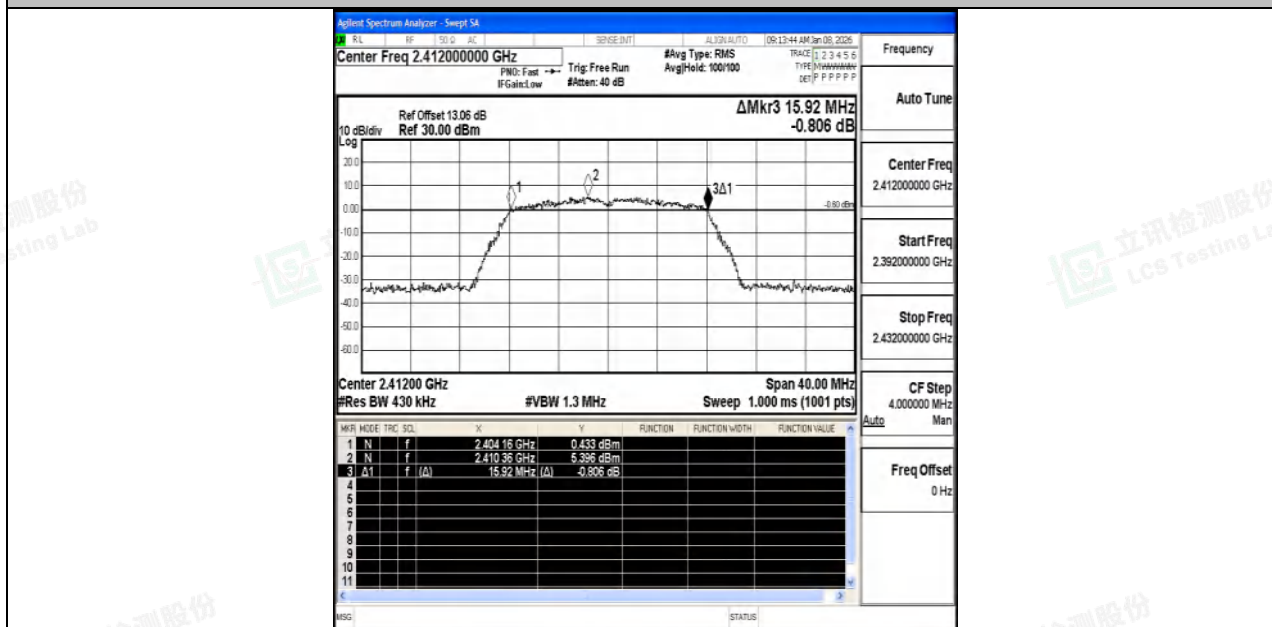
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11B-Ant2-2462-PASS



11G-Ant2-2412-PASS

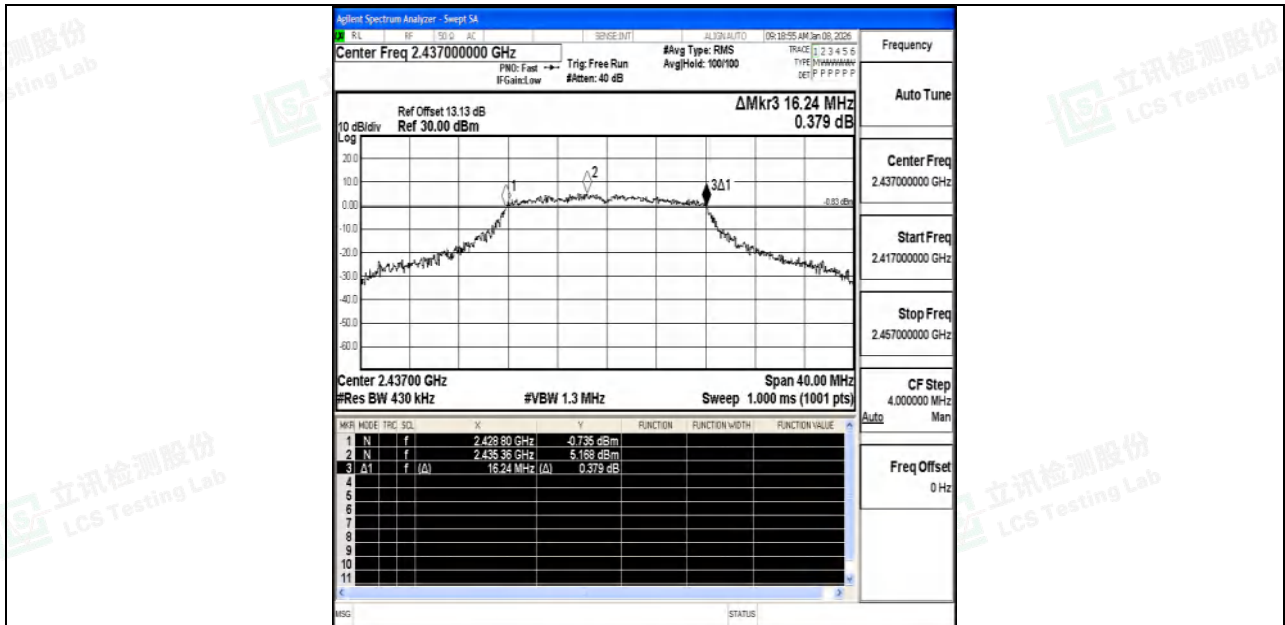


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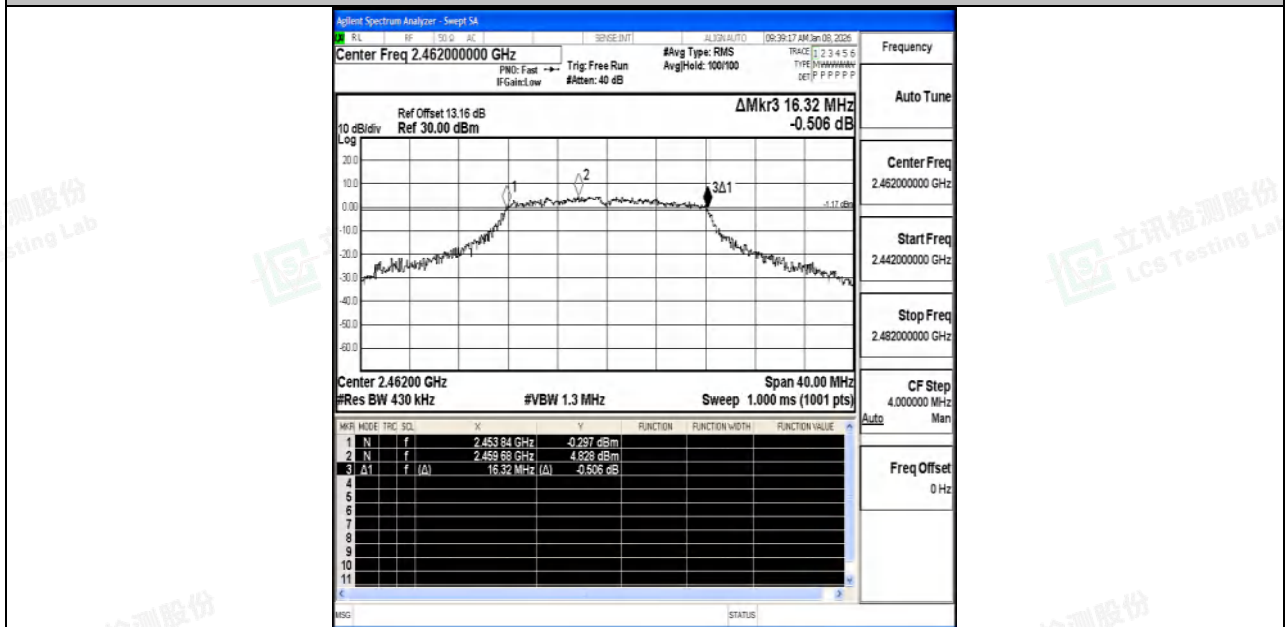
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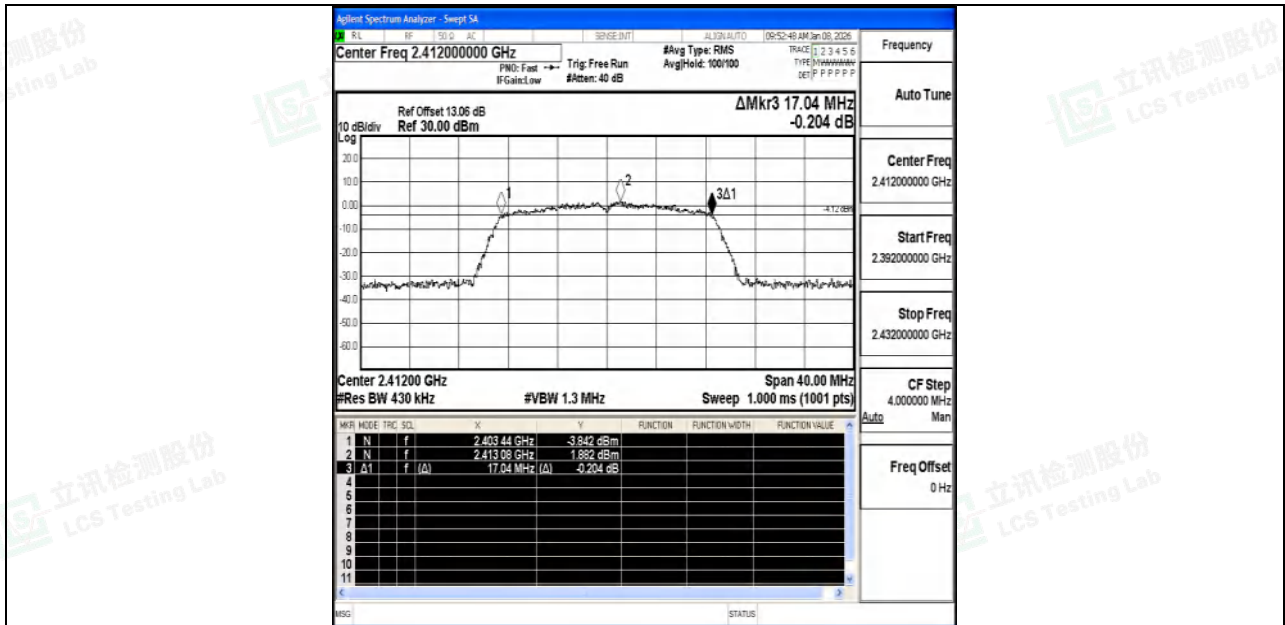


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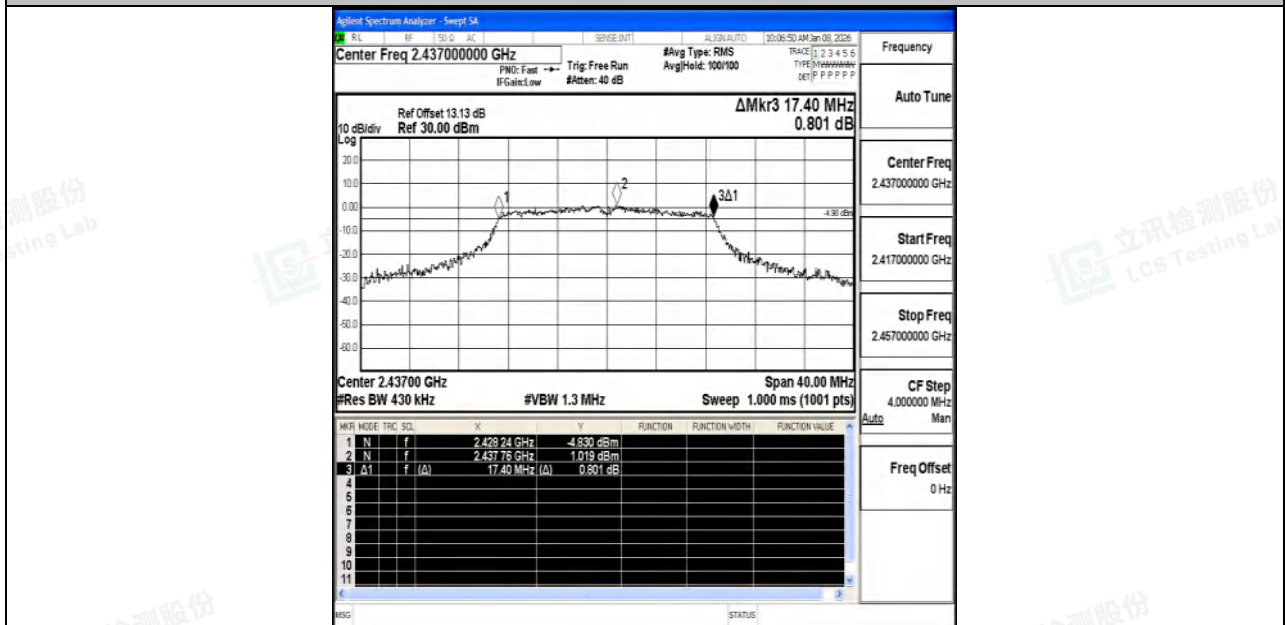


11G-Ant2-2462-PASS





11N20SISO-Ant2-2412-PASS



11N20SISO-Ant2-2437-PASS

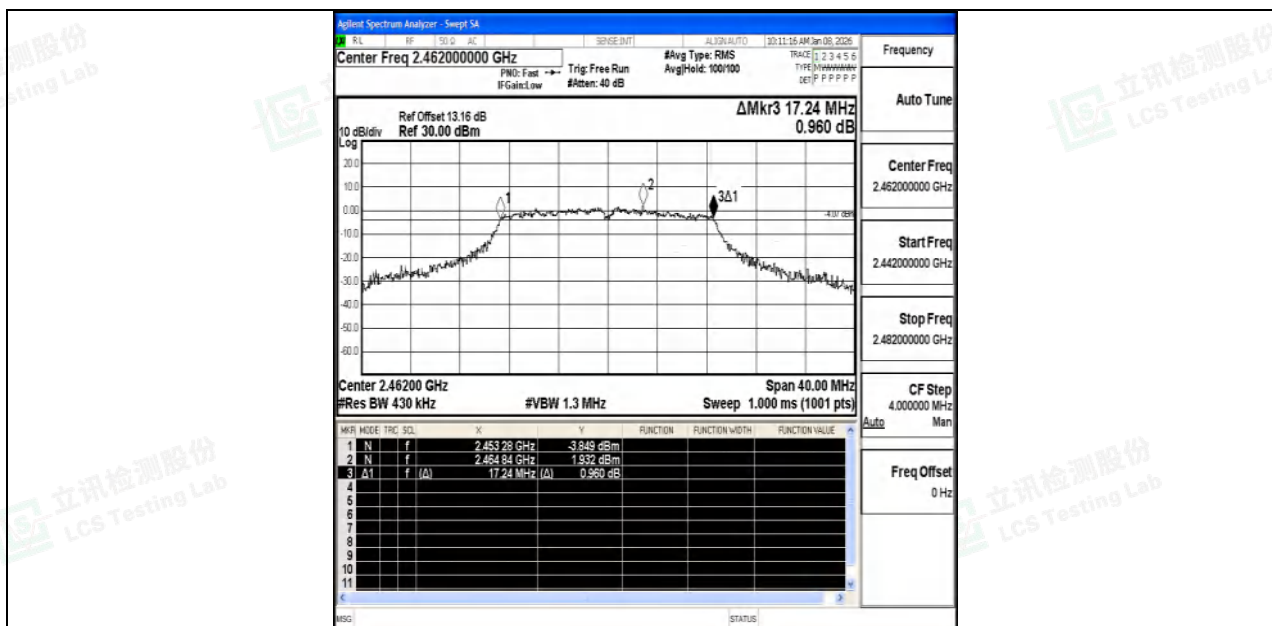


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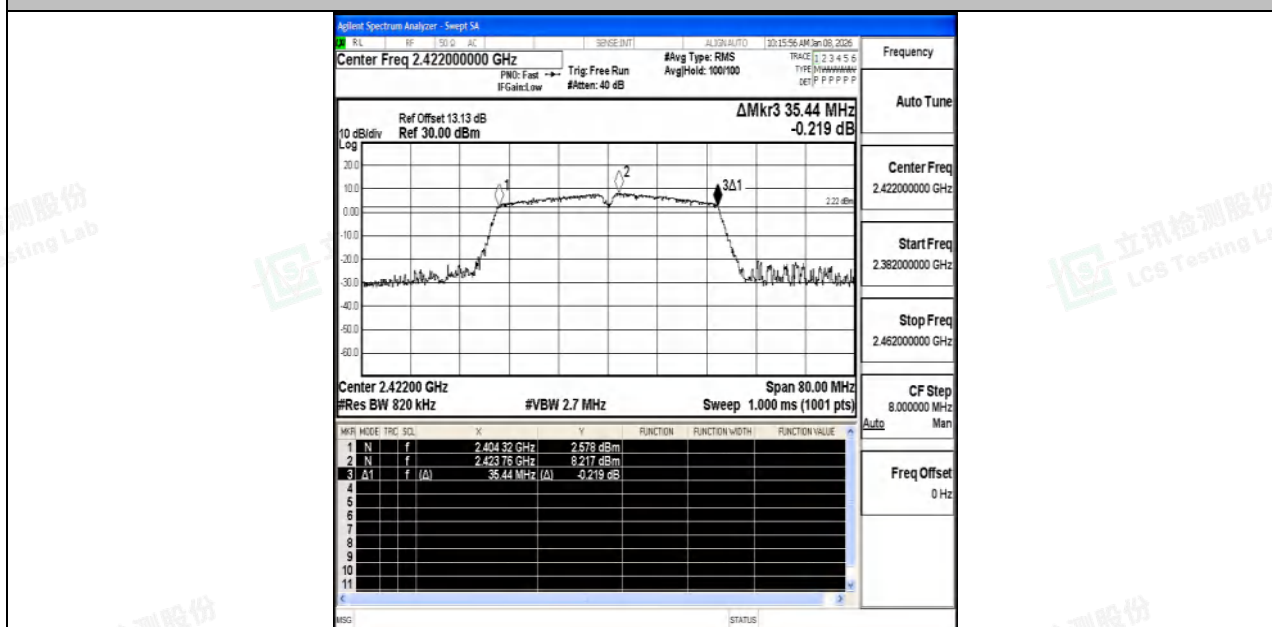
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11N20SISO-Ant2-2462-PASS



11N40SISO-Ant2-2422-PASS

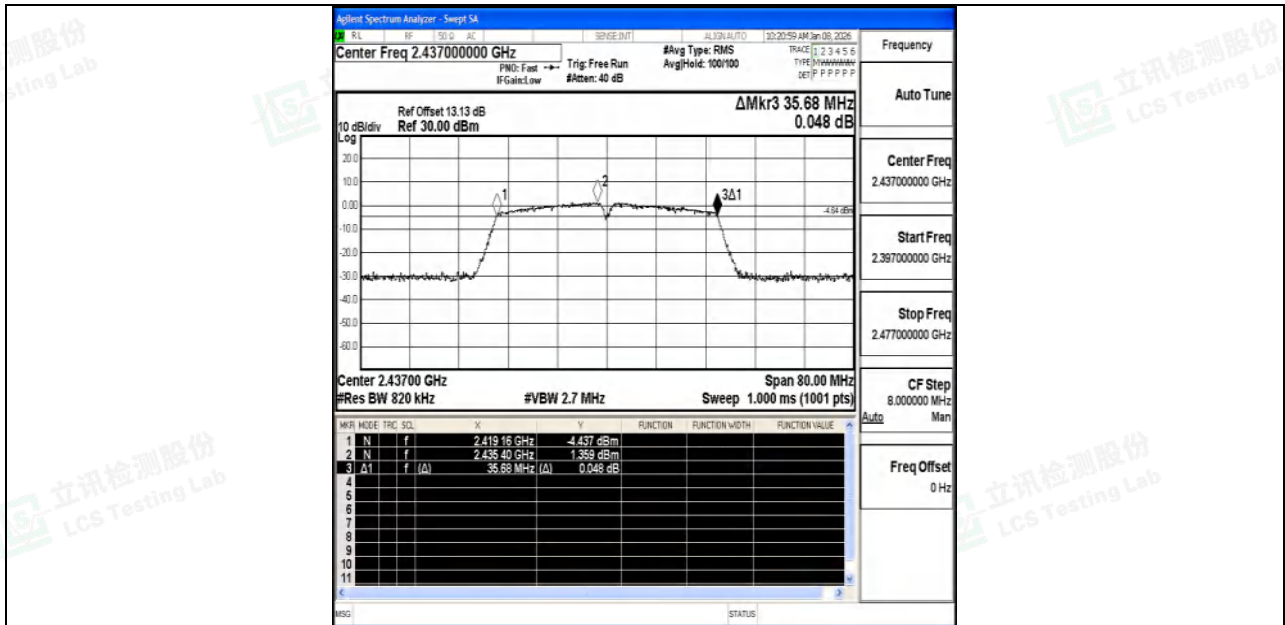


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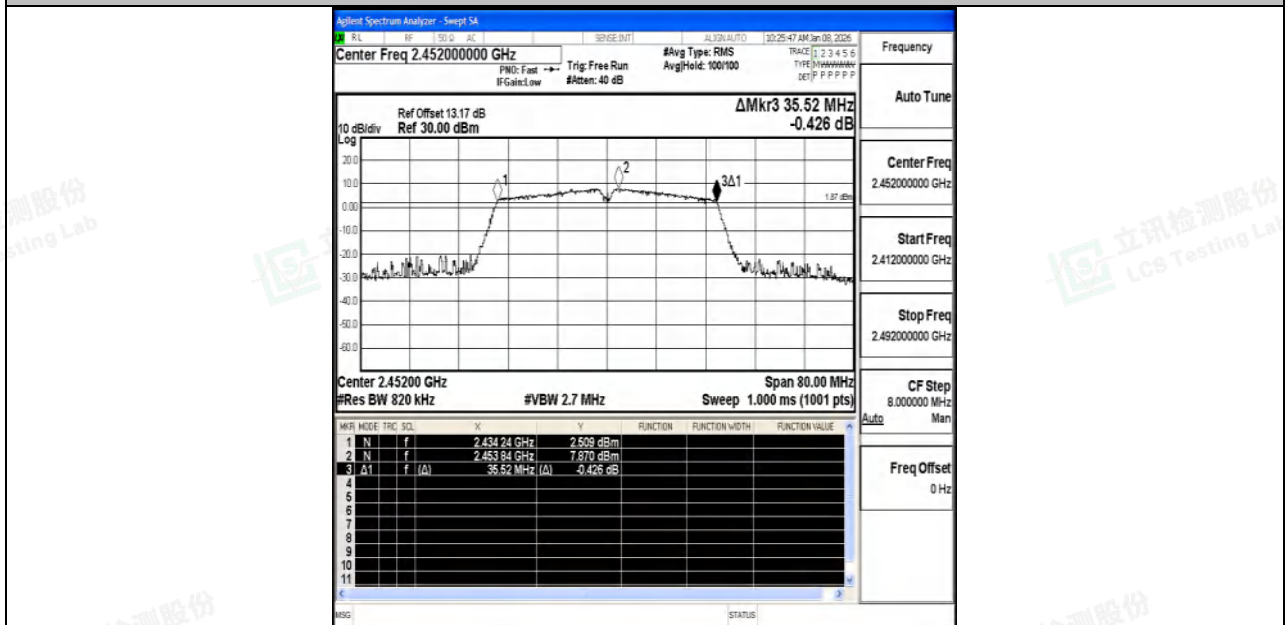
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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11N40SISO-Ant2-2437-PASS



11N40SISO-Ant2-2452-PASS





C.2 Maximum Average Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Maximum Average	Limit (dBm)	Verdict
NVNT	11B	2412	Ant1	13.05	0.31	13.36	30	Pass
NVNT	11B	2437	Ant1	13.30	0.02	13.32	30	Pass
NVNT	11B	2462	Ant1	13.13	0.01	13.14	30	Pass
NVNT	11G	2412	Ant1	12.42	0.12	12.54	30	Pass
NVNT	11G	2437	Ant1	12.25	0.12	12.37	30	Pass
NVNT	11G	2462	Ant1	12.34	0.09	12.43	30	Pass
NVNT	11N20SISO	2412	Ant1	14.32	0.13	14.45	30	Pass
NVNT	11N20SISO	2437	Ant1	14.13	0.13	14.26	30	Pass
NVNT	11N20SISO	2462	Ant1	13.41	0.13	13.54	30	Pass
NVNT	11N40SISO	2422	Ant1	12.17	0.26	12.43	30	Pass
NVNT	11N40SISO	2437	Ant1	14.75	0.20	14.95	30	Pass
NVNT	11N40SISO	2452	Ant1	14.65	0.26	14.91	30	Pass

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Maximum Average	Limit (dBm)	Verdict
NVNT	11B	2412	Ant2	13.45	0.02	13.47	30	Pass
NVNT	11B	2437	Ant2	13.47	0.02	13.49	30	Pass
NVNT	11B	2462	Ant2	12.63	0.02	12.65	30	Pass
NVNT	11G	2412	Ant2	12.04	0.12	12.16	30	Pass
NVNT	11G	2437	Ant2	12.02	0.12	12.14	30	Pass
NVNT	11G	2462	Ant2	12.99	0.09	13.08	30	Pass
NVNT	11N20SISO	2412	Ant2	13.04	0.13	13.17	30	Pass
NVNT	11N20SISO	2437	Ant2	13.47	0.13	13.6	30	Pass
NVNT	11N20SISO	2462	Ant2	13.72	0.10	13.82	30	Pass
NVNT	11N40SISO	2422	Ant2	14.24	0.26	14.5	30	Pass
NVNT	11N40SISO	2437	Ant2	14.61	0.20	14.81	30	Pass
NVNT	11N40SISO	2452	Ant2	14.79	0.20	14.99	30	Pass

MIMO

Condition	Mode	Frequency (MHz)	Total Power (dBm)			Limit (dBm)	Verdict
			Ant1	Ant2	Ant1+Ant2		
NVNT	11N20SISO	2412	14.45	13.17	16.87	30	Pass
NVNT	11N20SISO	2437	14.26	13.6	16.95	30	Pass
NVNT	11N20SISO	2462	13.54	13.82	16.69	30	Pass
NVNT	11N40SISO	2422	12.43	14.5	16.60	30	Pass
NVNT	11N40SISO	2437	14.95	14.81	17.89	30	Pass
NVNT	11N40SISO	2452	14.91	14.99	17.96	30	Pass





Note :offset=System attenuation +cabal loss

C.3 Maximum power spectral density

Test Result

TestMode	Antenn a	Frequency[MH z]	Result[dBm/3-100kH z]	Duty Factor (dB)	Total PSD (dBm/30kHz)	Limit[dBm/3k Hz]	Verdict
11B	Ant1	2412	-14.89	0.31	-14.58	≤8.00	PASS
11B	Ant1	2437	-10.29	0.02	-10.27	≤8.00	PASS
11B	Ant1	2462	-16.54	0.01	-16.53	≤8.00	PASS
11G	Ant1	2412	-18.61	0.12	-18.49	≤8.00	PASS
11G	Ant1	2437	-13.27	0.12	-13.15	≤8.00	PASS
11G	Ant1	2462	-19.21	0.09	-19.12	≤8.00	PASS
11N20SIS O	Ant1	2412	-24.34	0.13	-24.21	≤8.00	PASS
11N20SIS O	Ant1	2437	-18.93	0.13	-18.8	≤8.00	PASS
11N20SIS O	Ant1	2462	-24.72	0.13	-24.59	≤8.00	PASS
11N40SIS O	Ant1	2422	-17.26	0.26	-17	≤8.00	PASS
11N40SIS O	Ant1	2437	-17.41	0.20	-17.21	≤8.00	PASS
11N40SIS O	Ant1	2452	-20.63	0.26	-20.37	≤8.00	PASS

TestMode	Antenn a	Frequency[MH z]	Result[dBm/3-100kH z]	Duty Factor (dB)	Total PSD (dBm/30kHz)	Limit[dBm/ 3kHz]	Verdict
11B	Ant2	2412	-8.43	0.02	-8.41	≤8.00	PASS
11B	Ant2	2437	-7.55	0.02	-7.53	≤8.00	PASS
11B	Ant2	2462	-9.00	0.02	-8.98	≤8.00	PASS
11G	Ant2	2412	-17.87	0.12	-17.75	≤8.00	PASS
11G	Ant2	2437	-18.35	0.12	-18.23	≤8.00	PASS
11G	Ant2	2462	-18.31	0.09	-18.22	≤8.00	PASS
11N20SIS O	Ant2	2412	-22.73	0.13	-22.6	≤8.00	PASS
11N20SIS O	Ant2	2437	-22.25	0.13	-22.12	≤8.00	PASS
11N20SIS O	Ant2	2462	-22.48	0.10	-22.38	≤8.00	PASS



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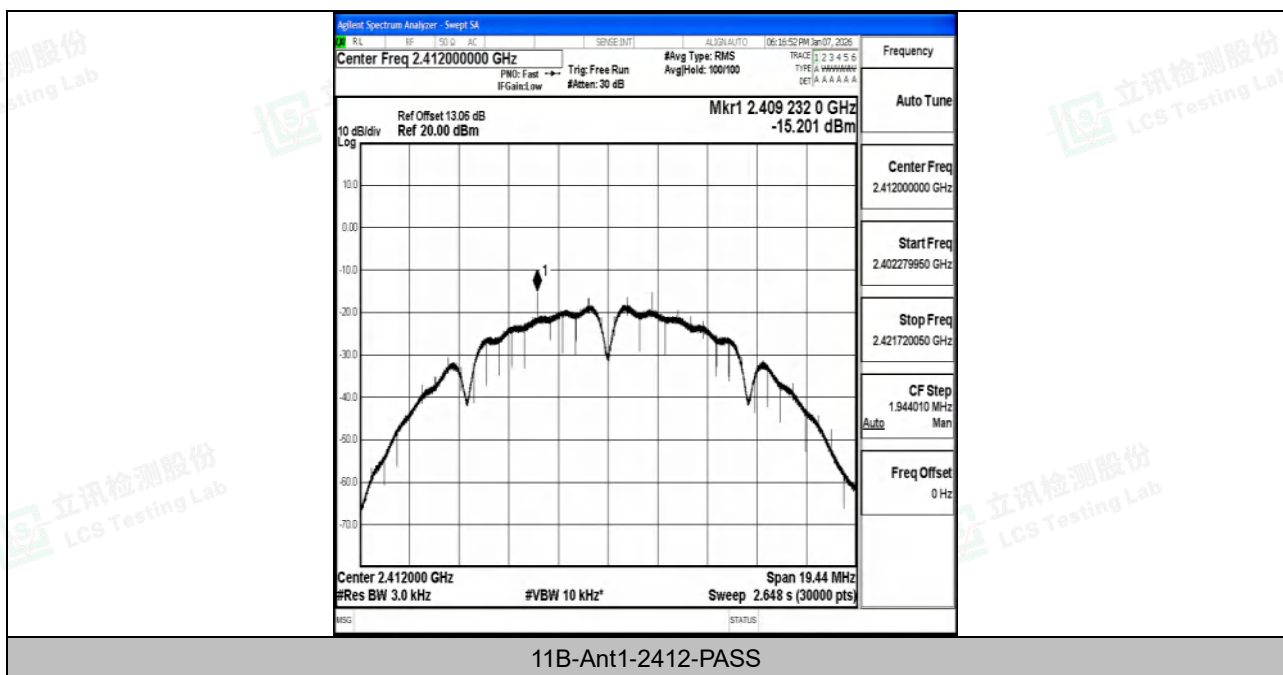
11N40SIS O	Ant2	2422	-18.80	0.26	-18.54	≤8.00	PASS
11N40SIS O	Ant2	2437	-24.73	0.20	-24.53	≤8.00	PASS
11N40SIS O	Ant2	2452	-17.66	0.20	-17.46	≤8.00	PASS

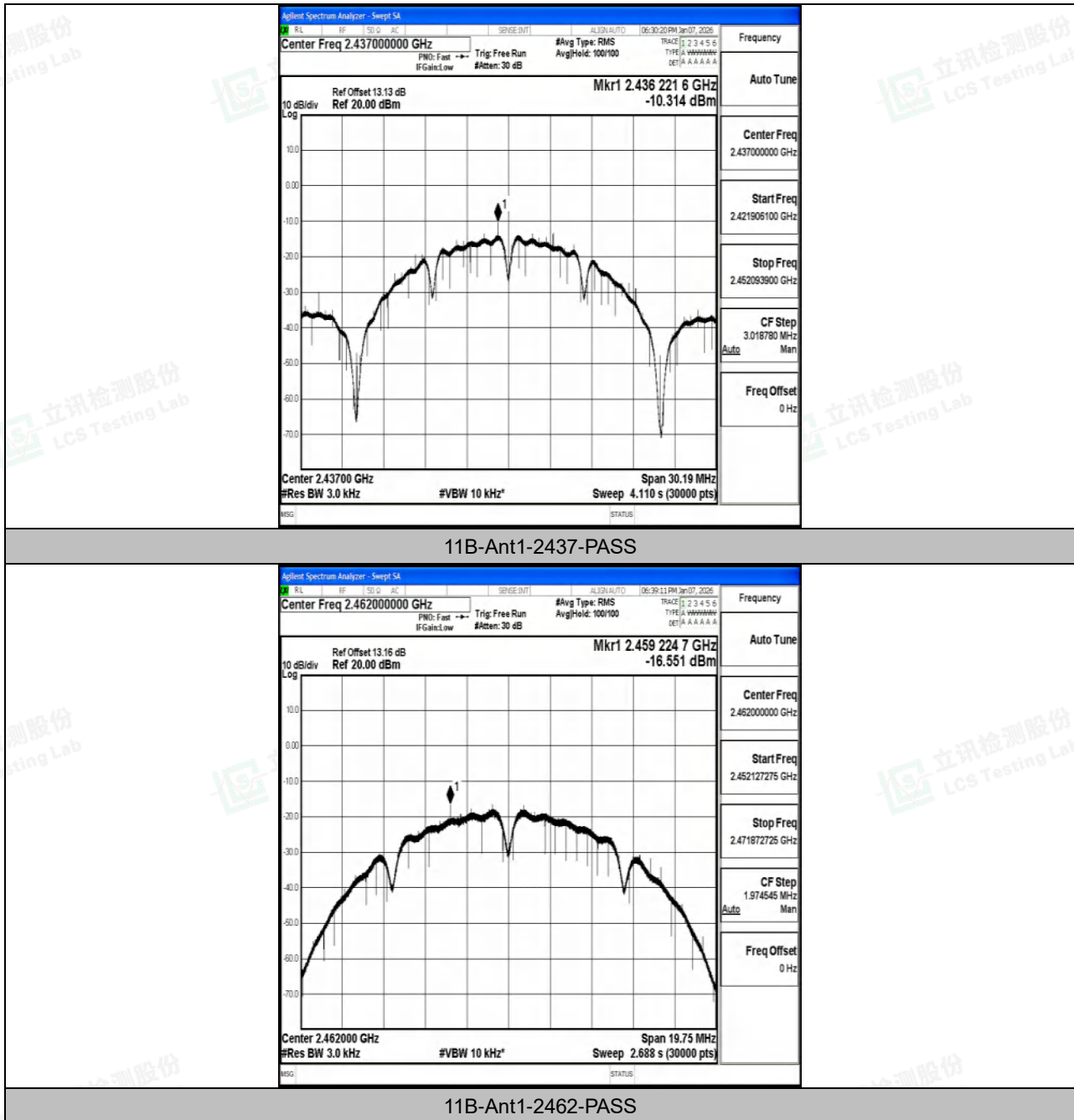
MIMO

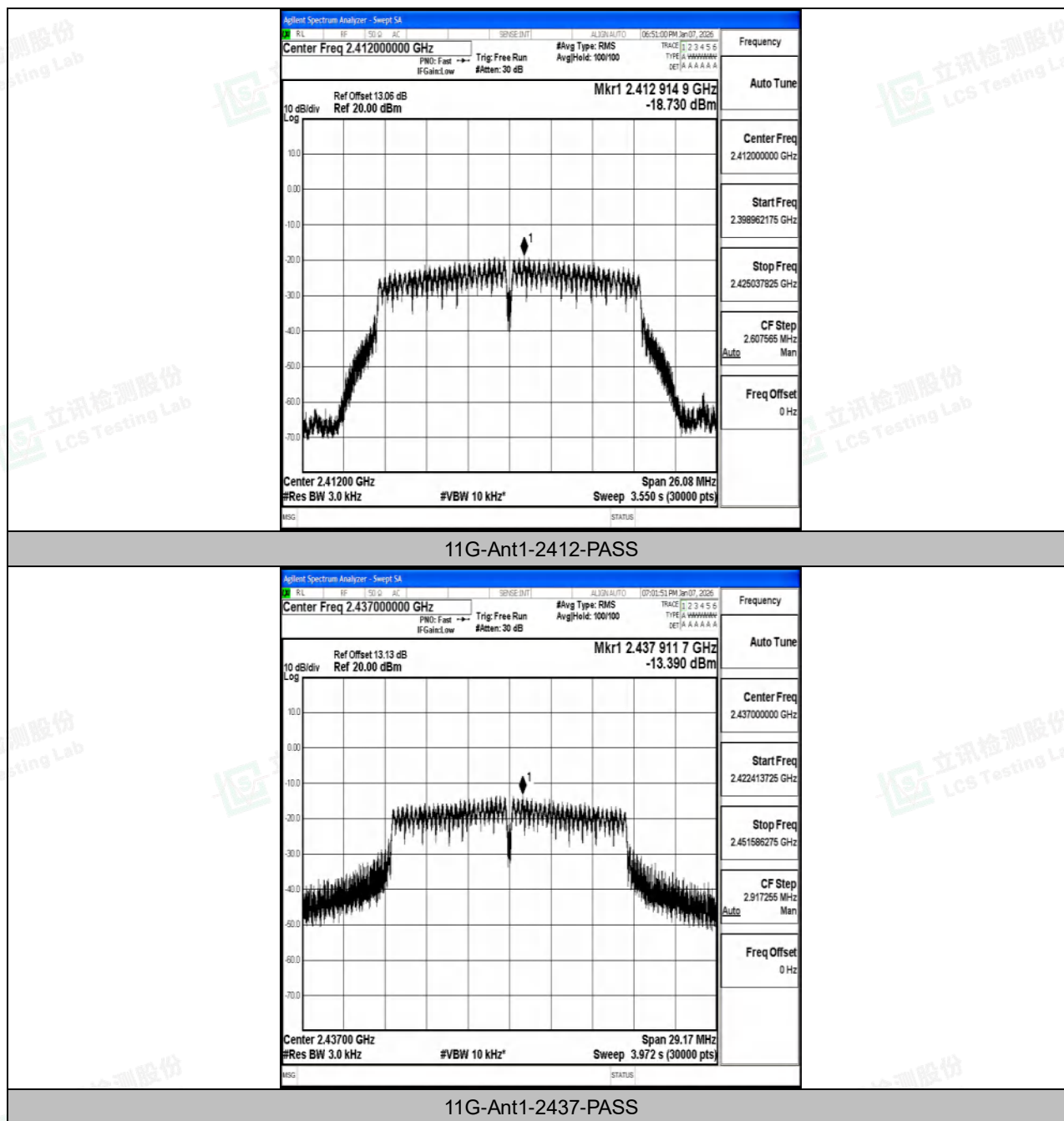
Condition	Mode	Frequency (MHz)	Total PSD (dBm/3kHz)			Limit (dBm)	Verdict
			Ant1	Ant2	Ant1+Ant2		
NVNT	11N20SISO	2412	-24.21	-22.6	-20.32	5.99	Pass
NVNT	11N20SISO	2437	-18.8	-22.12	-17.14	5.99	Pass
NVNT	11N20SISO	2462	-24.59	-22.38	-20.34	5.99	Pass
NVNT	11N40SISO	2412	-17	-18.54	-14.69	5.99	Pass
NVNT	11N40SISO	2437	-17.21	-24.53	-16.47	5.99	Pass
NVNT	11N40SISO	2452	-20.37	-17.46	-15.67	5.99	Pass

Note :offset=System attenuation +cabal loss

Test Graphs





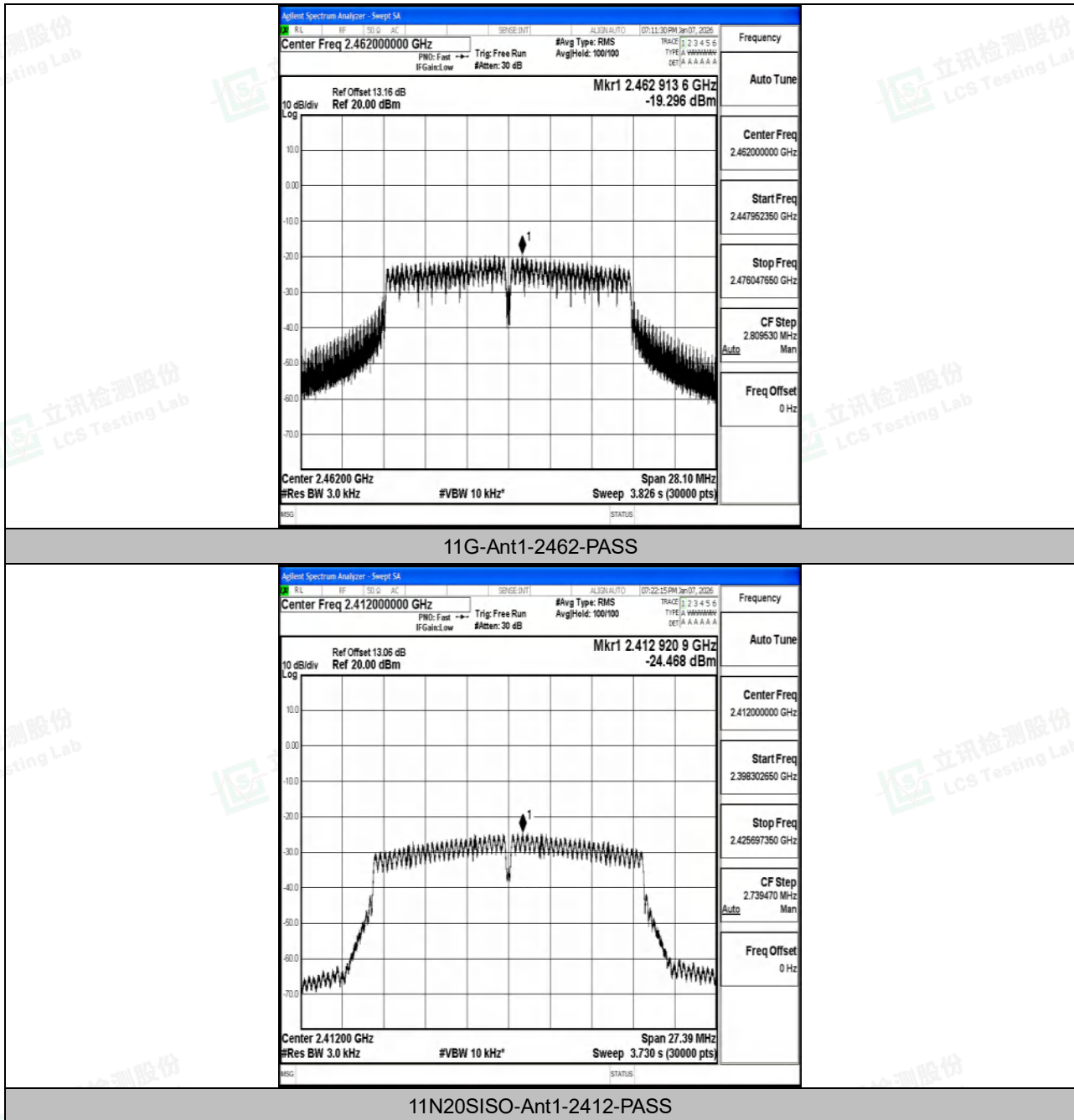


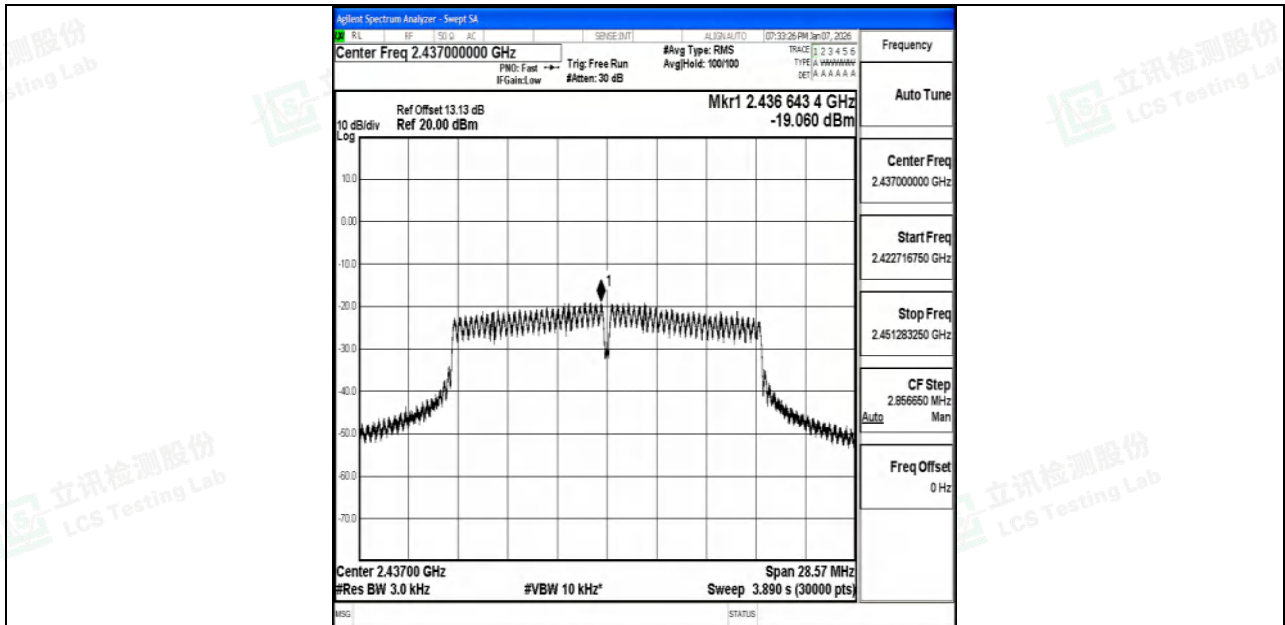
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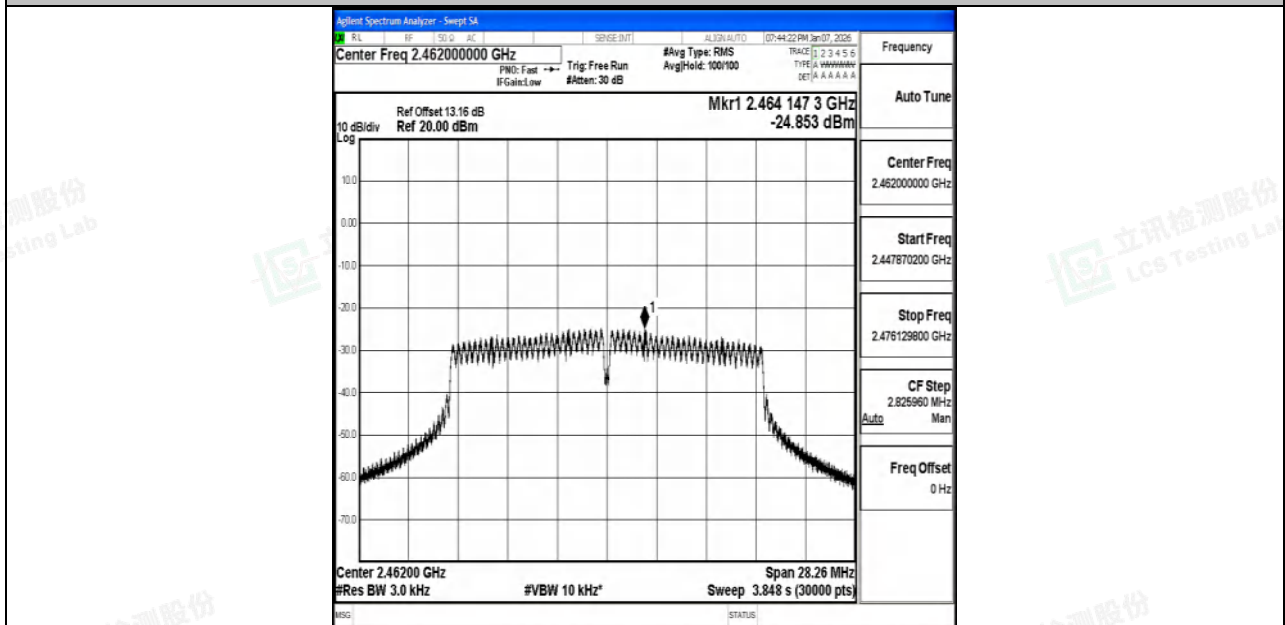
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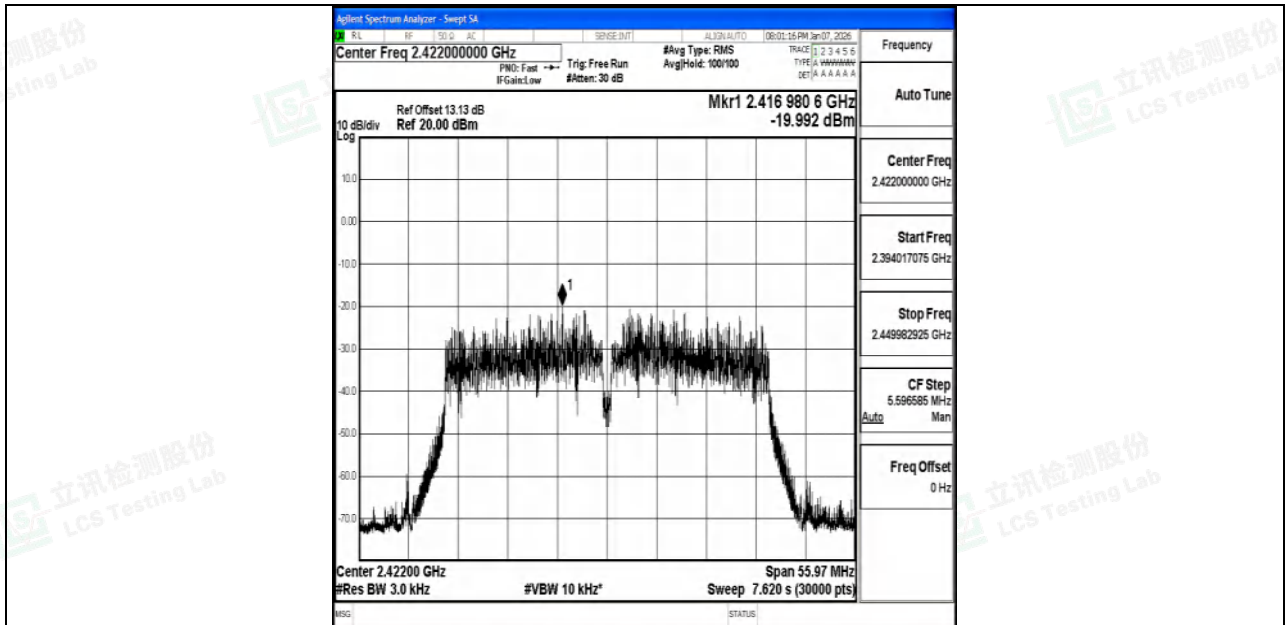


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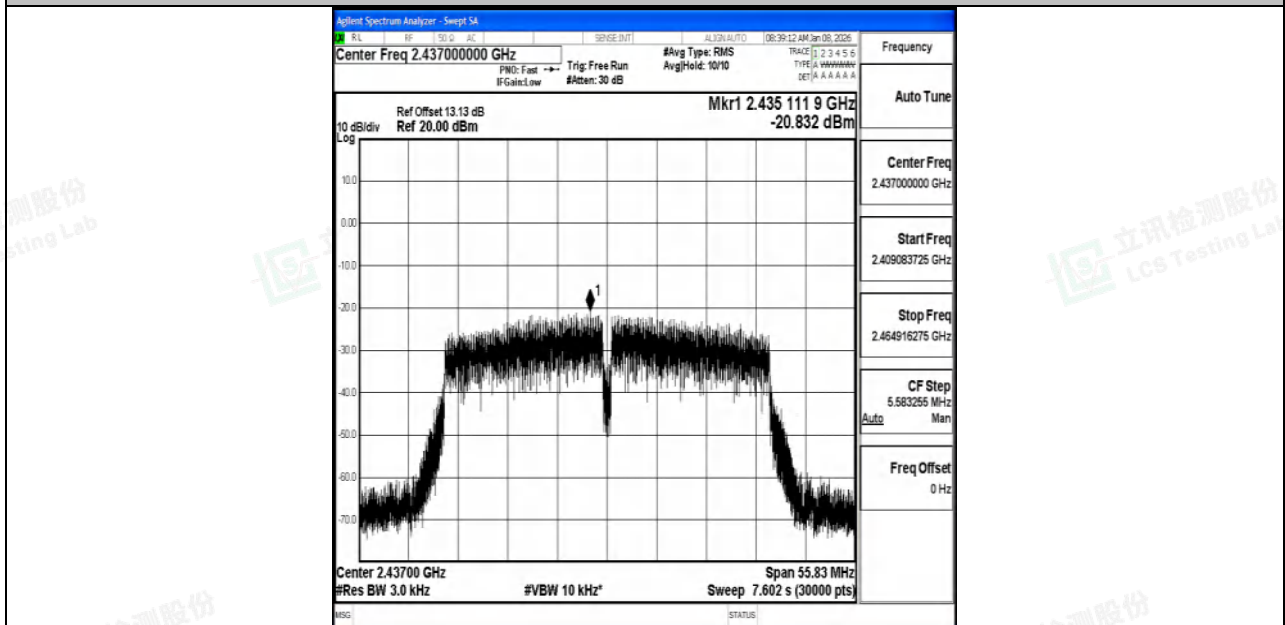


11N20SISO-Ant1-2462-PASS





11N40SISO-Ant1-2422-PASS



11N40SISO-Ant1-2437-PASS

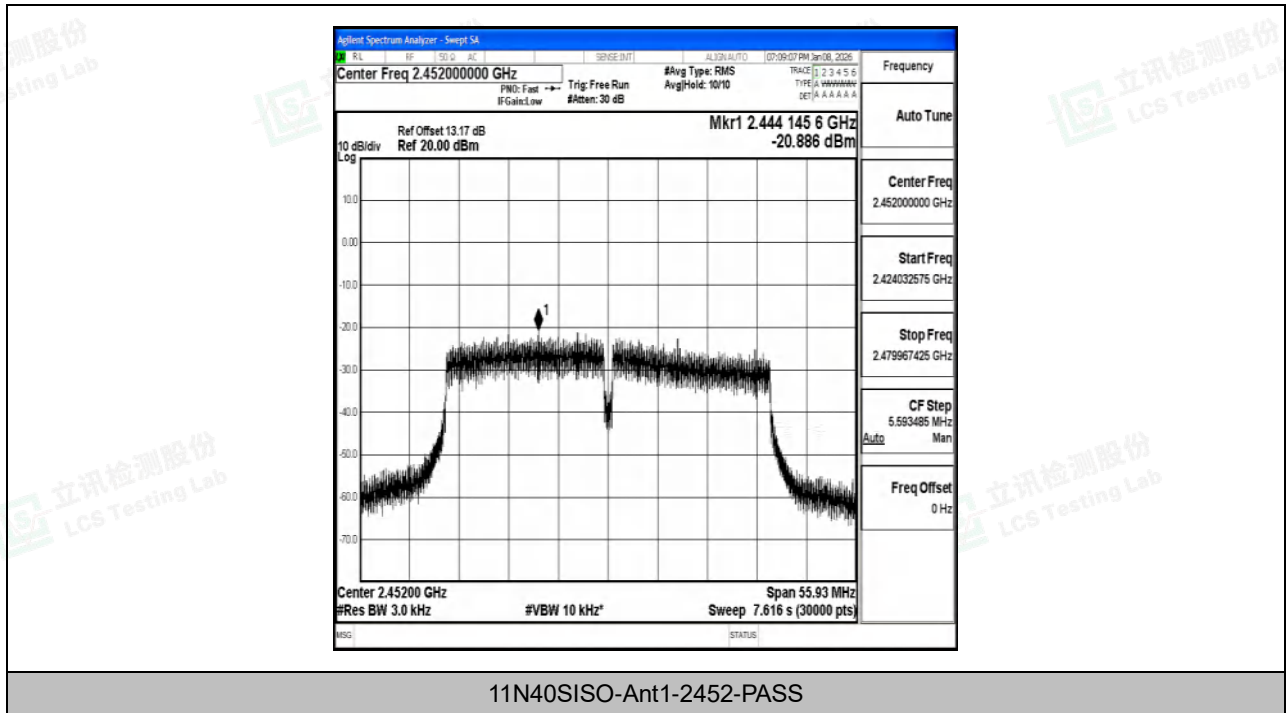


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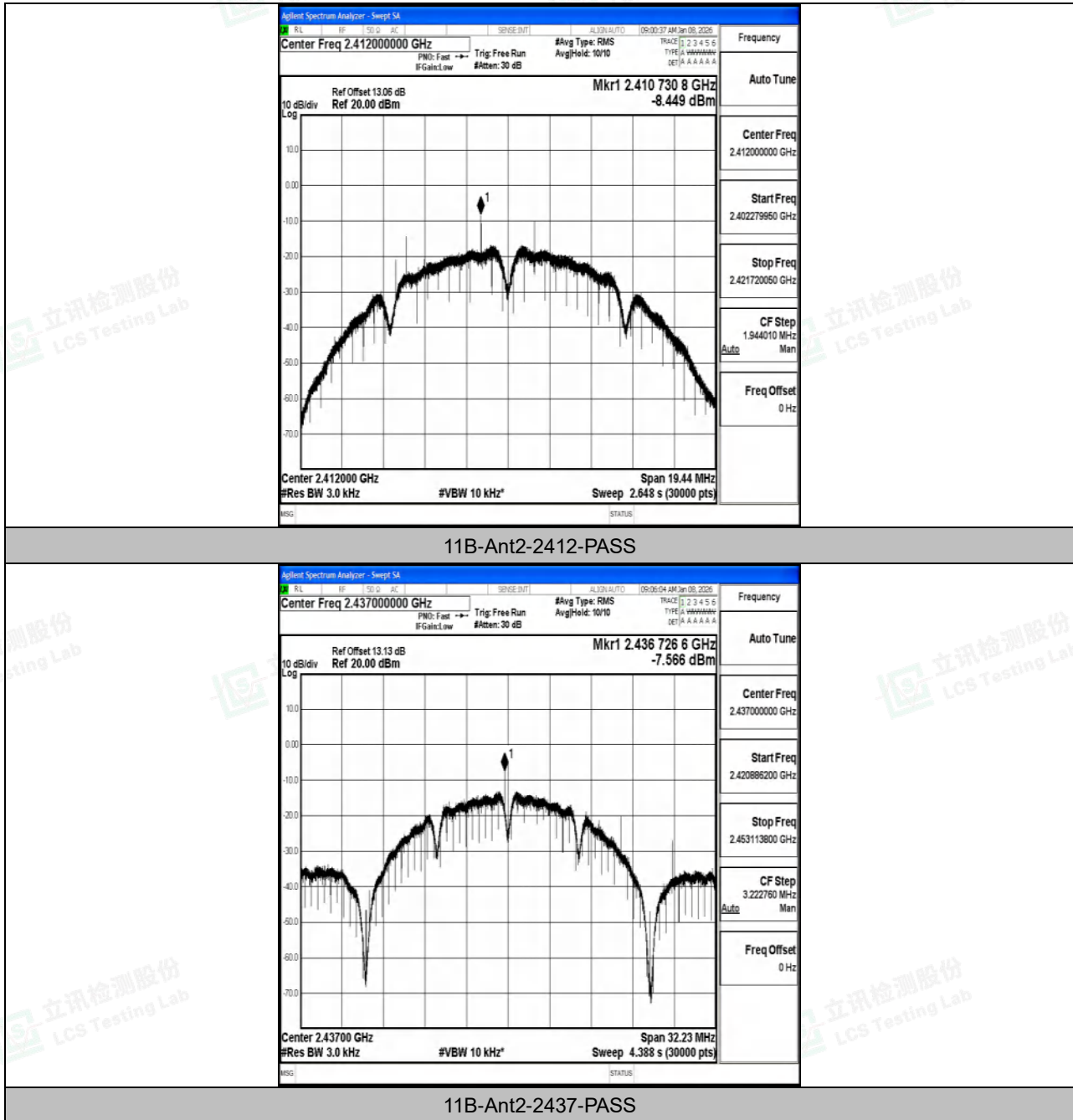
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Test Graphs

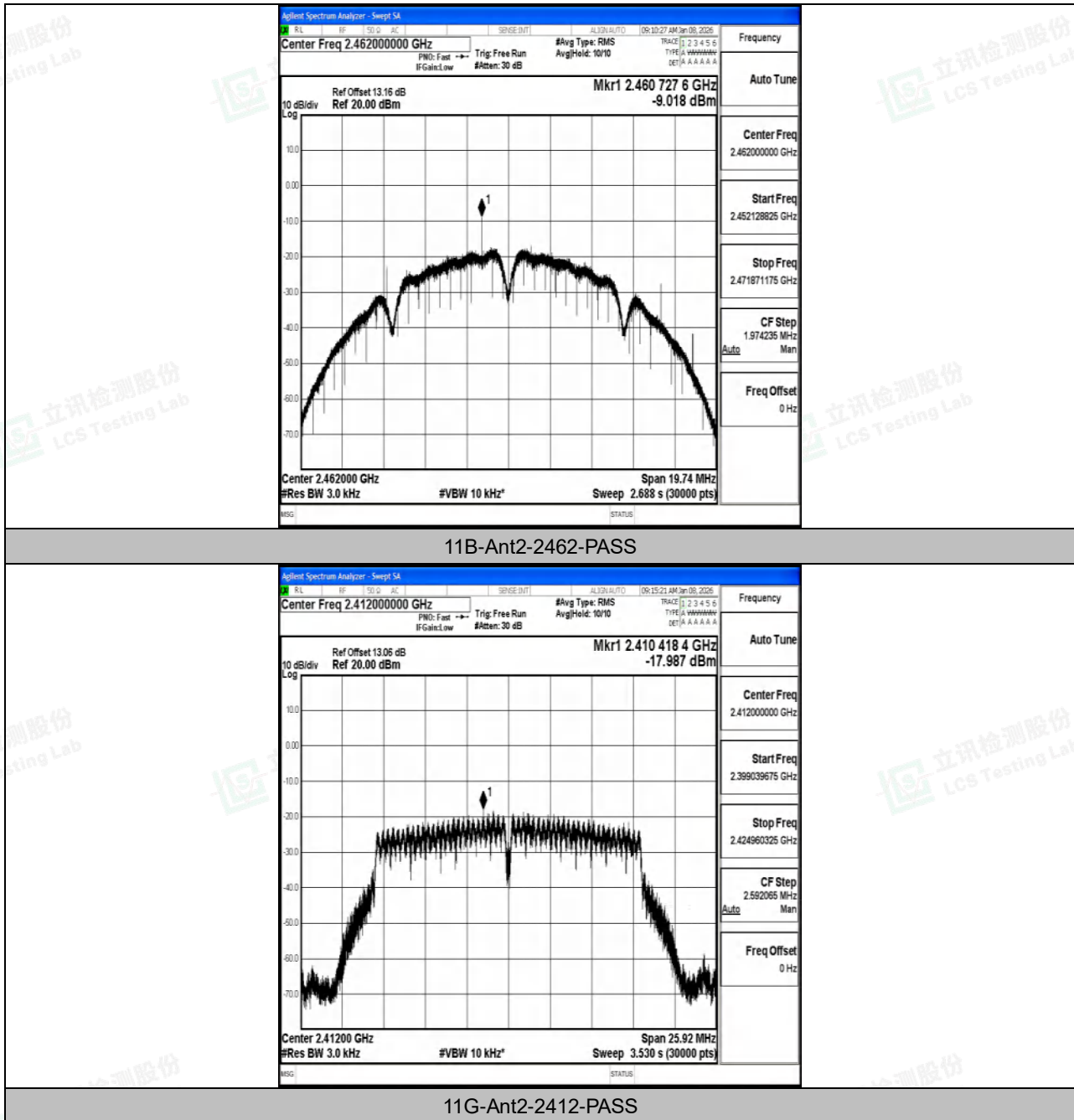


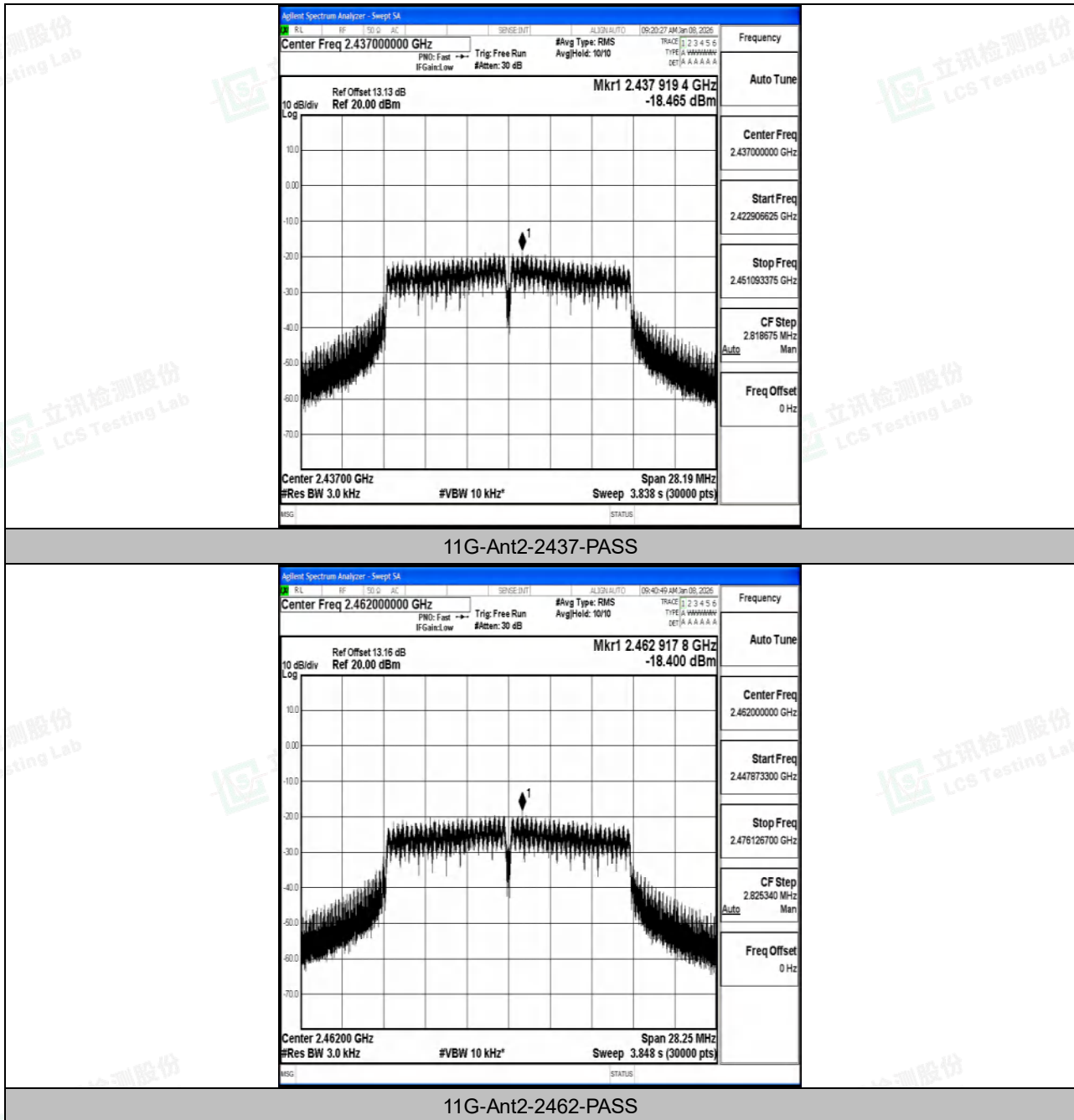
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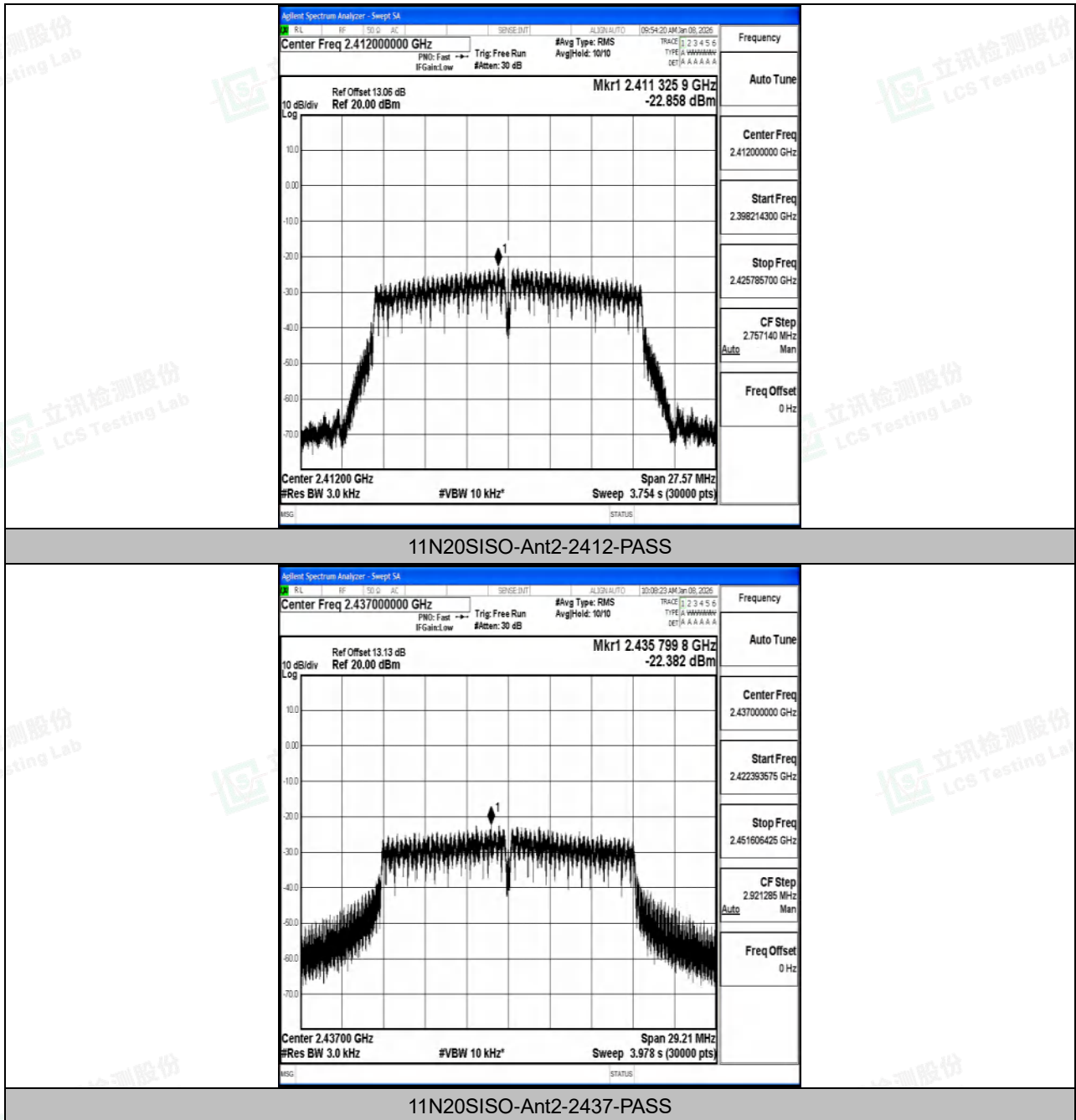
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

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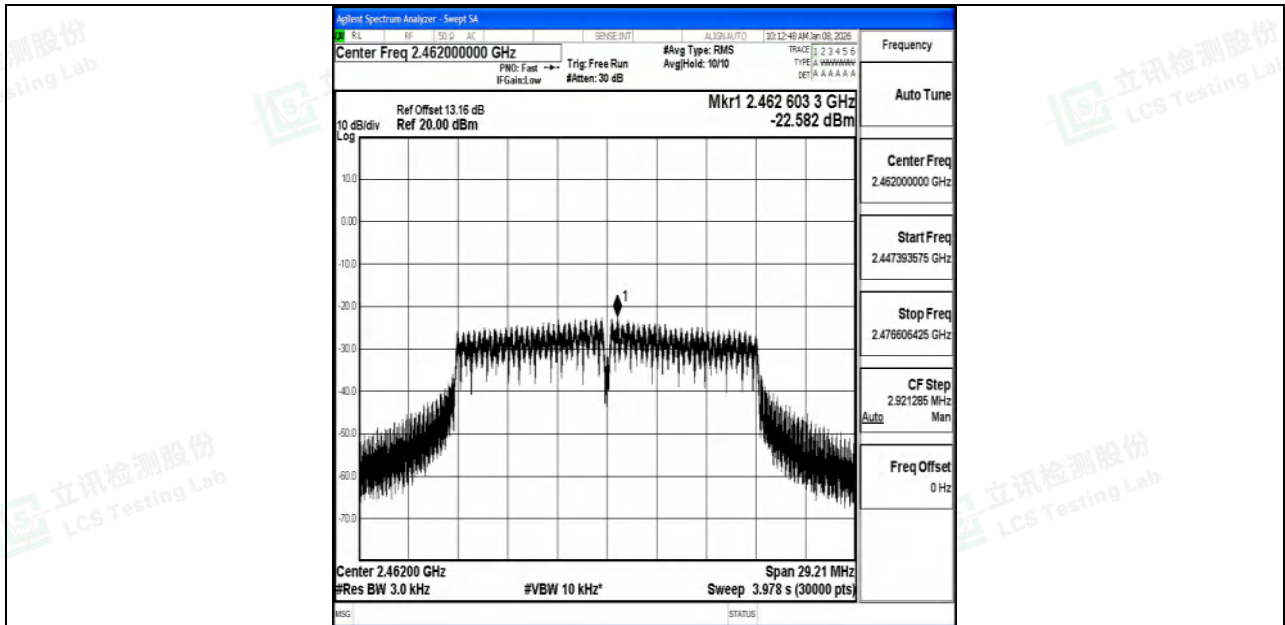


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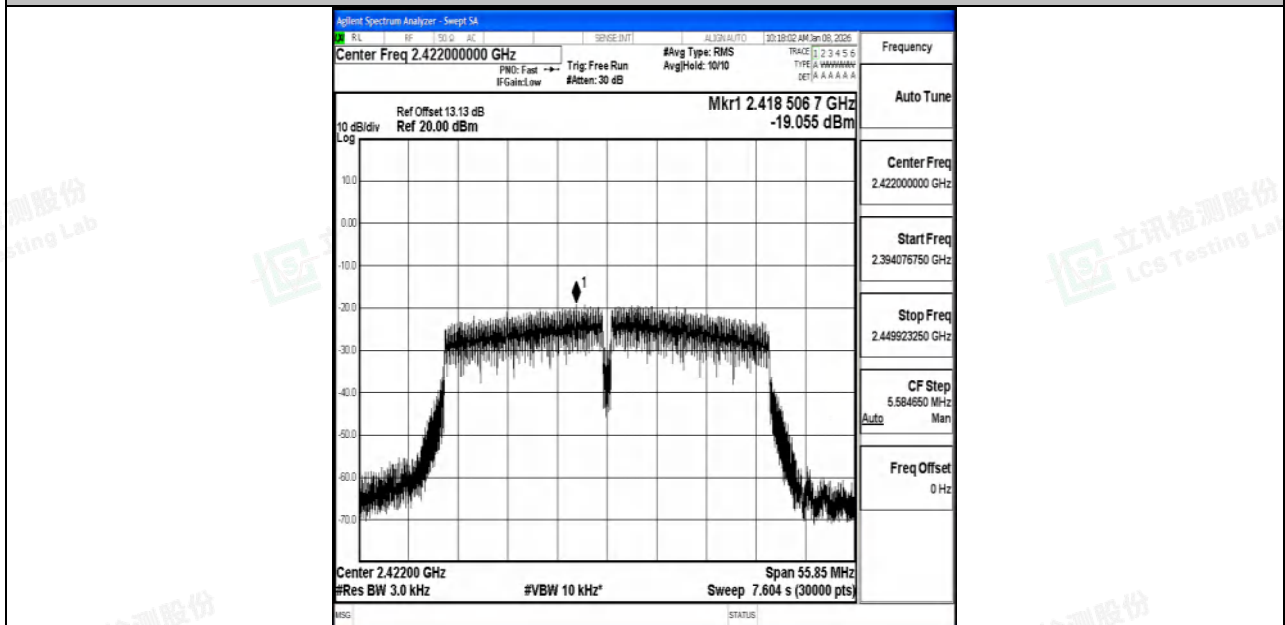
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

Scan code to check authenticity



11N20SISO-Ant2-2462-PASS



11N40SISO-Ant2-2422-PASS

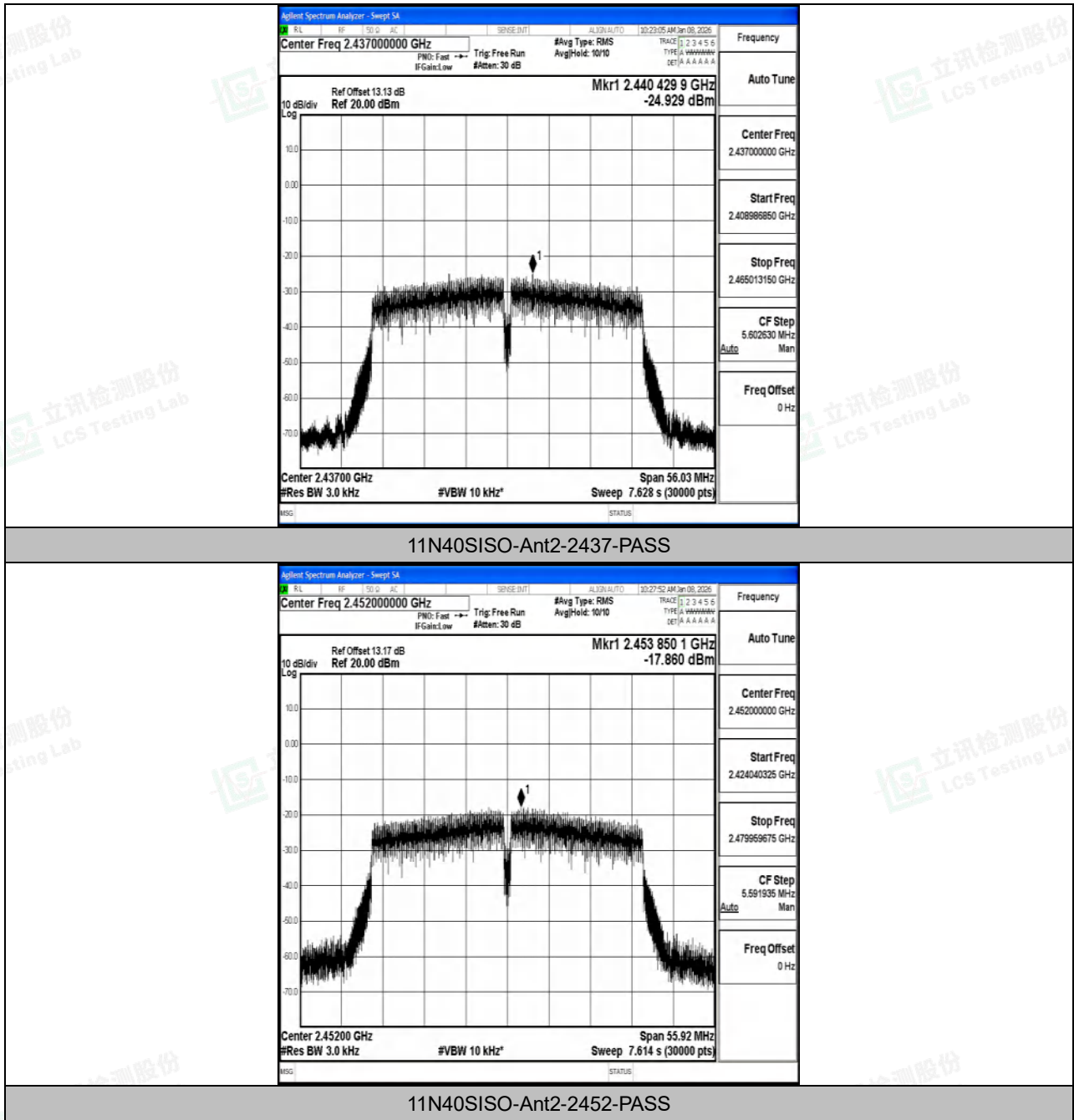


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C.4 Band edge measurements

Test Result

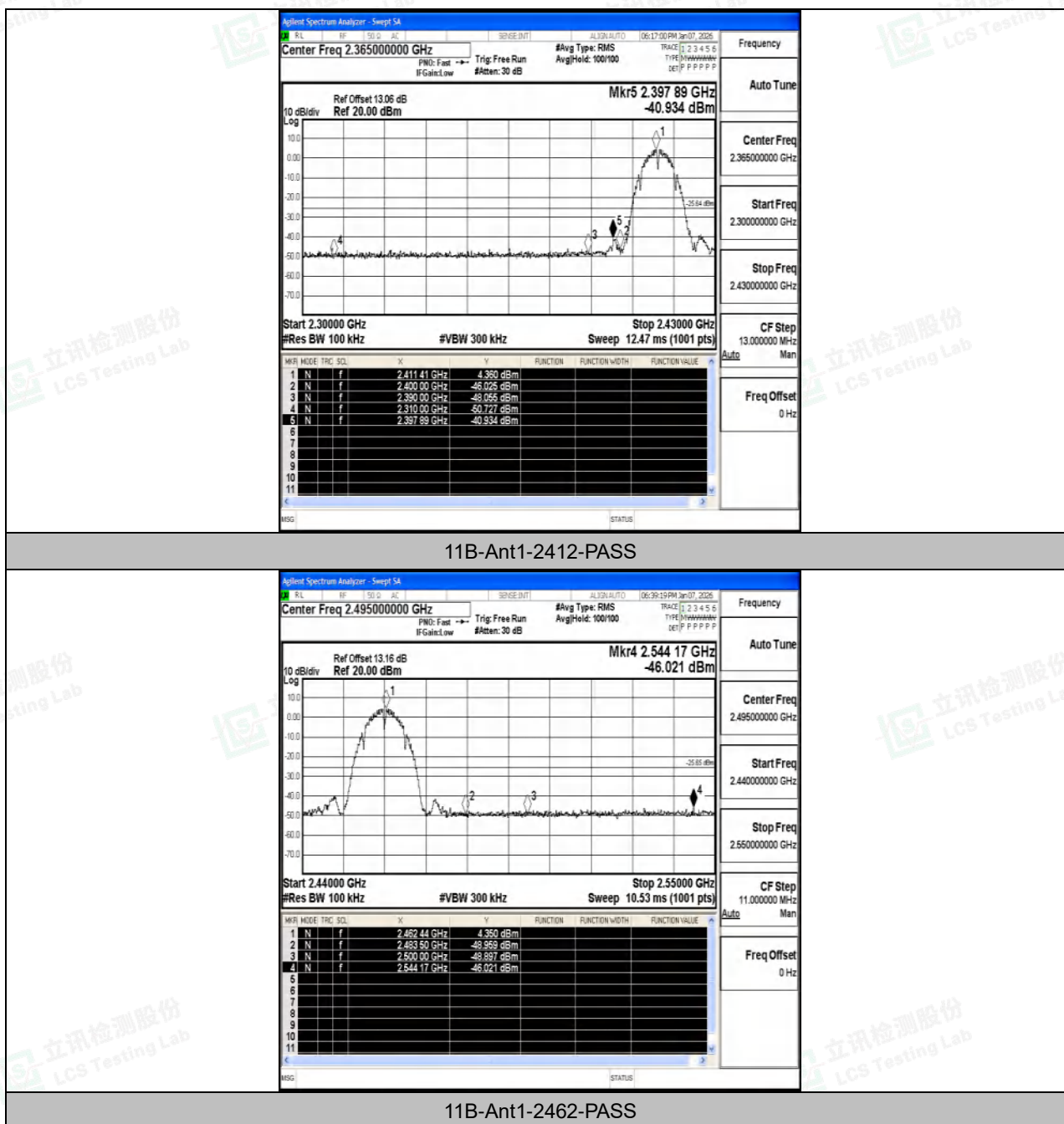
TestMode	Antenna	ChName	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	4.36	-40.93	≤-25.64	PASS
11B	Ant1	High	2462	4.35	-46.02	≤-25.65	PASS
11G	Ant1	Low	2412	1.33	-42.02	≤-28.68	PASS
11G	Ant1	High	2462	1.25	-45.11	≤-28.75	PASS
11N20SISO	Ant1	Low	2412	-2.63	-40.3	≤-32.63	PASS
11N20SISO	Ant1	High	2462	-2.12	-46.43	≤-32.12	PASS
11N40SISO	Ant1	Low	2422	-0.04	-40.05	≤-30.04	PASS
11N40SISO	Ant1	High	2452	2.43	-36.3	≤-27.58	PASS

Note :offset=System attenuation +cabal loss





Test Graphs



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Scan code to check authenticity

Agilent Spectrum Analyzer - Swept SA

Center Freq 2.365000000 GHz

Ref Offset 13.06 dB
Ref 20.00 dBm

Mkr5 2.399 71 GHz
-42.024 dBm

Start 2.30000 GHz
#Res BW 100 kHz

Stop 2.43000 GHz
Sweep 12.47 ms (1001 pts)

#VBW 300 kHz

Frequency

Auto Tune

Center Freq
2.365000000 GHz

Start Freq
2.300000000 GHz

Stop Freq
2.430000000 GHz

CF Step
13.000000 MHz

Freq Offset
0 Hz

MNR	MODE	TRF	SGL	F	FUNCTION	FUNCTION WITH	FUNCTION VALUE
1	N	f		2.413 23 GHz			4.325 dBm
2	N	f		2.400 00 GHz			-43.668 dBm
3	N	f		2.390 00 GHz			-48.726 dBm
4	N	f		2.310 00 GHz			-50.010 dBm
5	N	f		2.399 71 GHz			-42.024 dBm

Agilent Spectrum Analyzer - Sweep SA

R/L RF TSD JC REF EDGE BUT ALG/AUTO (07-11-38 PM Jan 07, 2026)

Center Freq 2.495000000 GHz #Avg Type: RMS #Attenu: 30 dB Trg: Free Run Avg/Hold: 100/100

PWD: Fast IF Gain: Low TYPE: Waveform DCP: P P P P P

Ref Offset 13.16 dB Mkr4 2.522 06 GHz
Ref 20.00 dBm -45.112 dBm

10 dB/div

Start 2.44000 GHz Stop 2.55000 GHz
#Res BW 100 kHz #VBW 300 kHz Sweep 10.53 ms (1001 pts)

M/R	MODE	TRIG	SOL	F	V	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	f		2.490 79 GHz	-42.88 dBm			
2	N	f		2.493 93 GHz	-49.98 dBm			
3	N	f		2.500 00 GHz	-49.30 dBm			
4	N	f		2.522 06 GHz	-45.11 dBm			
5								
6								
7								
8								
9								
10								
11								

MSO STATUS

Frequency

Auto Tune

Center Freq 2.495000000 GHz

Start Freq 2.440000000 GHz

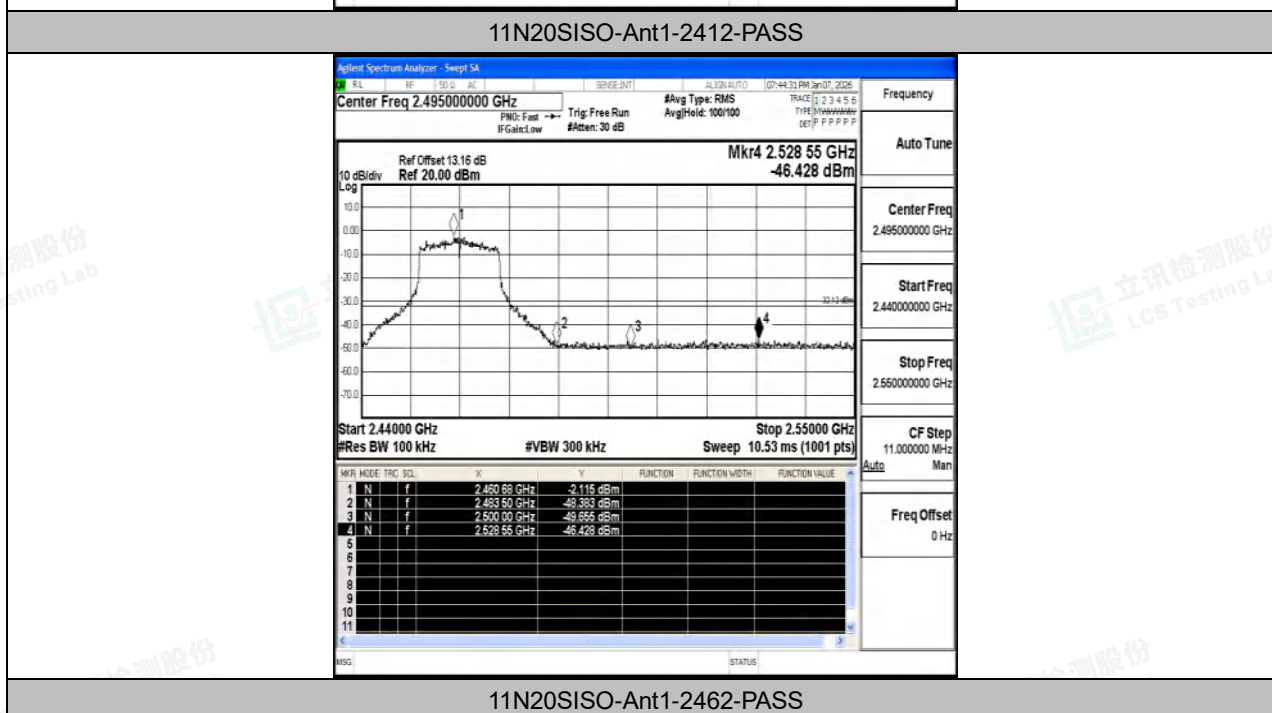
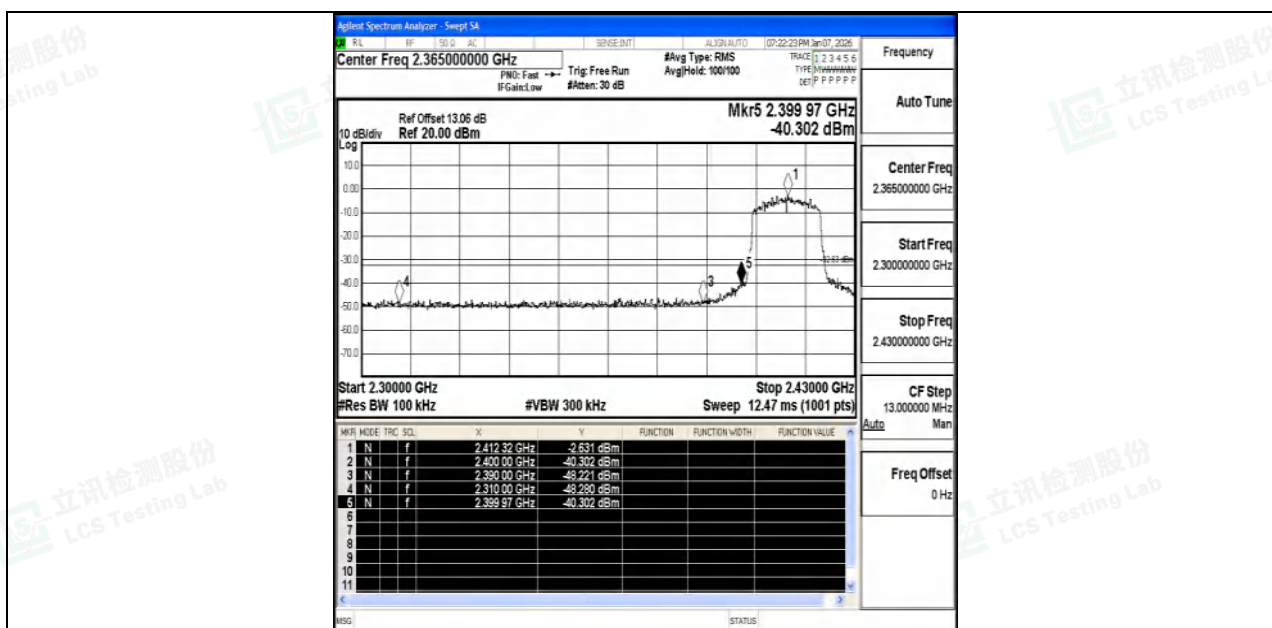
Stop Freq 2.550000000 GHz

CF Step 11.000000 MHz

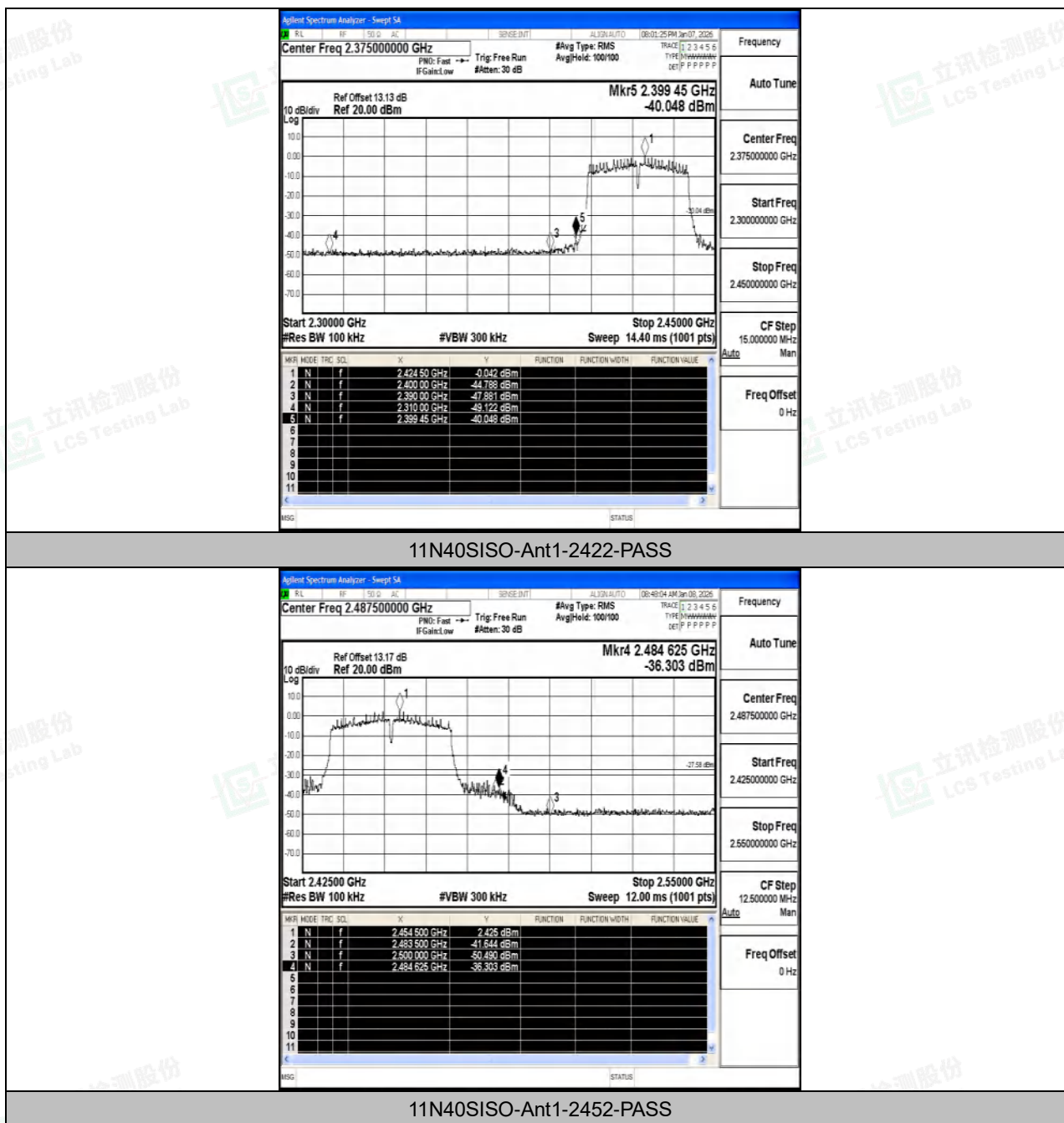
Auto Man

Freq Offset 0 Hz





Shenzhen LCS Compliance Testing Laboratory Ltd.





Test Result

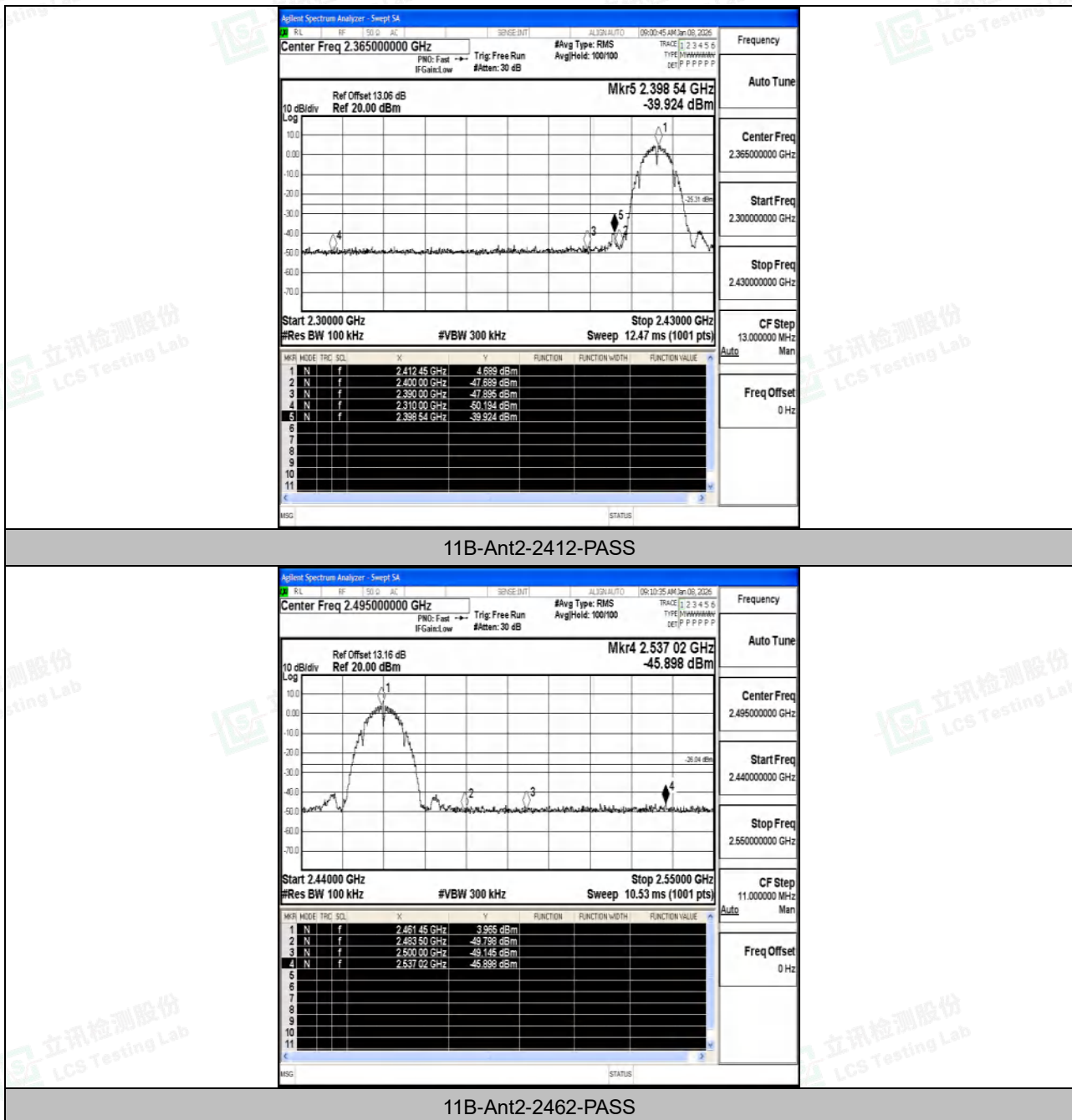
TestMode	Antenna	ChName	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant2	Low	2412	4.69	-39.92	≤-25.31	PASS
11B	Ant2	High	2462	3.97	-45.9	≤-26.04	PASS
11G	Ant2	Low	2412	0.54	-41.75	≤-29.46	PASS
11G	Ant2	High	2462	1.10	-45.68	≤-28.9	PASS
11N20SISO	Ant2	Low	2412	-1.95	-44.43	≤-31.95	PASS
11N20SISO	Ant2	High	2462	-1.17	-46.16	≤-31.17	PASS
11N40SISO	Ant2	Low	2422	2.54	-32.89	≤-27.46	PASS
11N40SISO	Ant2	High	2452	2.92	-34.42	≤-27.08	PASS

Note :offset=System attenuation +cabal loss





Test Graphs



Agilent Spectrum Analyzer - Swept SA

Center Freq 2.365000000 GHz

Ref Offset 13.06 dB
Ref 20.00 dBm

Mkr5 2.399 84 GHz
-41.748 dBm

Start 2.30000 GHz
#Res BW 100 kHz

Stop 2.43000 GHz
Sweep 12.47 ms (1001 pts)

MNR	MODE	TRF	SGL	F	FUNCTION	FUNCTION WITH	FUNCTION VALUE
1	N	f		2.416 70 GHz			0.542 dBm
2	N	f		2.400 00 GHz			-42.708 dBm
3	N	f		2.390 00 GHz			-48.633 dBm
4	N	f		2.310 00 GHz			-49.480 dBm
5	N	f		2.399 84 GHz			-41.748 dBm

Frequency

Auto Tune

Center Freq
2.365000000 GHz

Start Freq
2.300000000 GHz

Stop Freq
2.430000000 GHz

CF Step
13.000000 MHz

Freq Offset
0 Hz

Agilent Spectrum Analyzer - Sweep SA

Center Freq 2.495000000 GHz

Ref Offset 13.16 dB
Ref 20.00 dBm

Mkr4 2.486 09 GHz
-45.680 dBm

Start 2.44000 GHz
#Res BW 100 kHz

Stop 2.55000 GHz
Sweep 10.53 ms (1001 pts)

#VBW 300 kHz

MR	MODE	TRIG	SOL	F	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	f		2.486 09 GHz			-45.680 dBm
2	N	f		2.493 59 GHz			-45.600 dBm
3	N	f		2.500 00 GHz			-50.292 dBm
4	N	f		2.486 09 GHz			-45.680 dBm

Frequency

Auto Tune

Center Freq
2.495000000 GHz

Start Freq
2.440000000 GHz

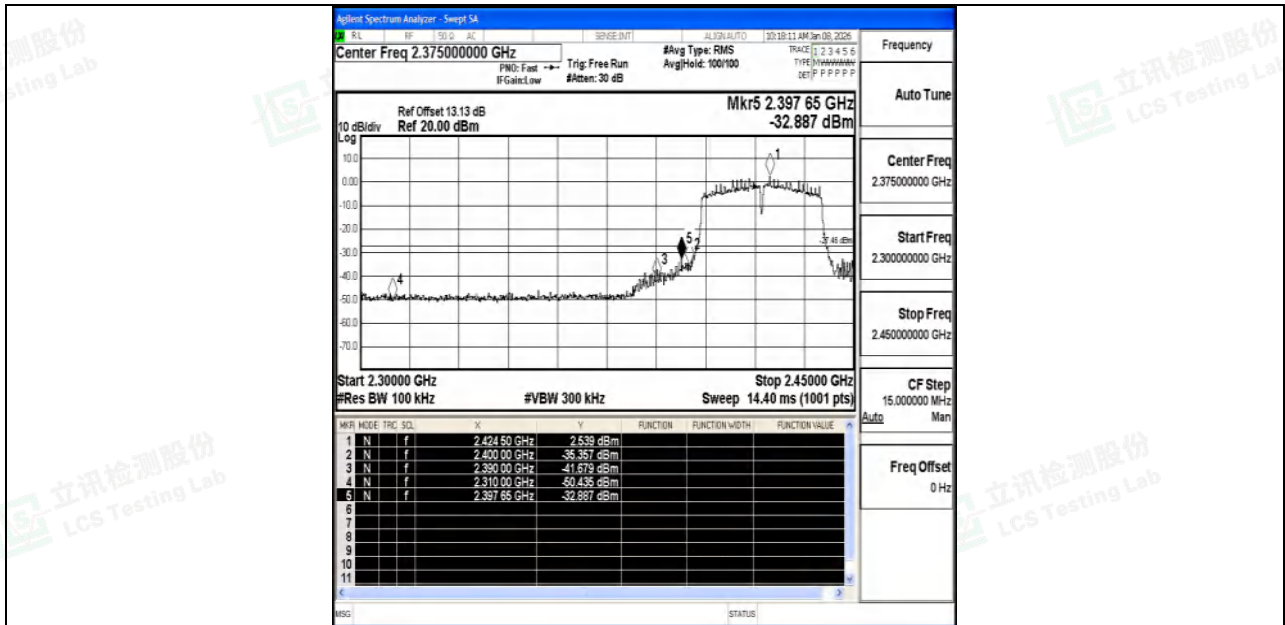
Stop Freq
2.550000000 GHz

CF Step
11.000000 MHz

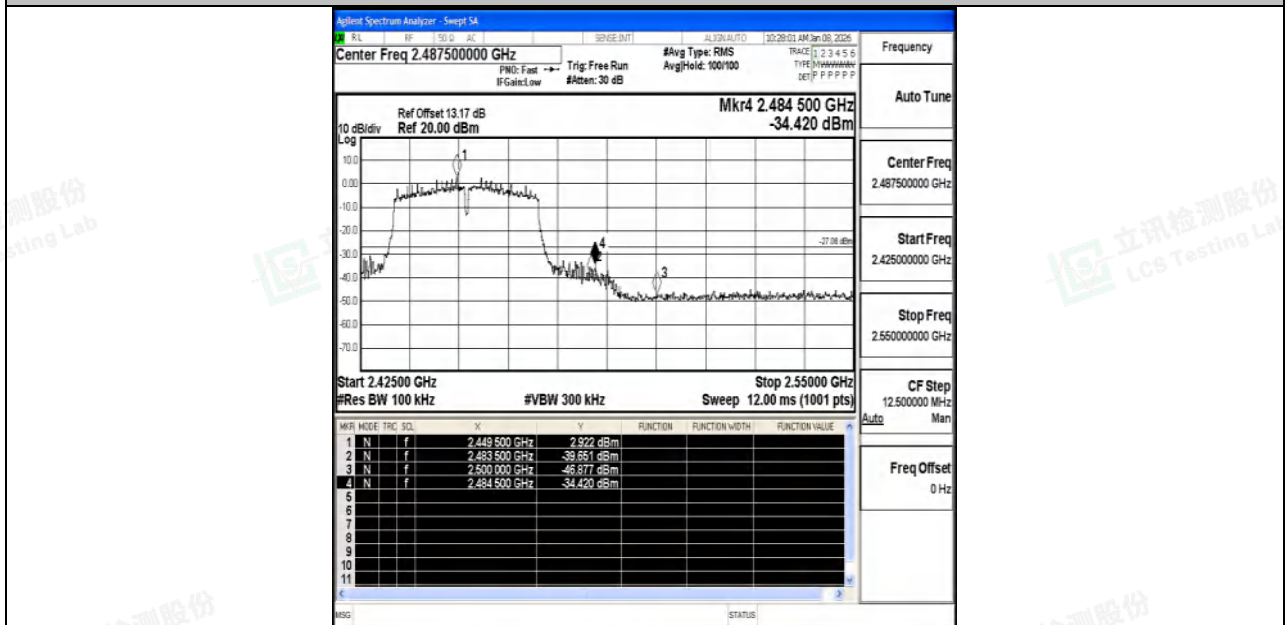
Auto Man

Freq Offset
0 Hz





11N40SISO-Ant2-2422-PASS



11N40SISO-Ant2-2452-PASS





C.5 Conducted Spurious Emission

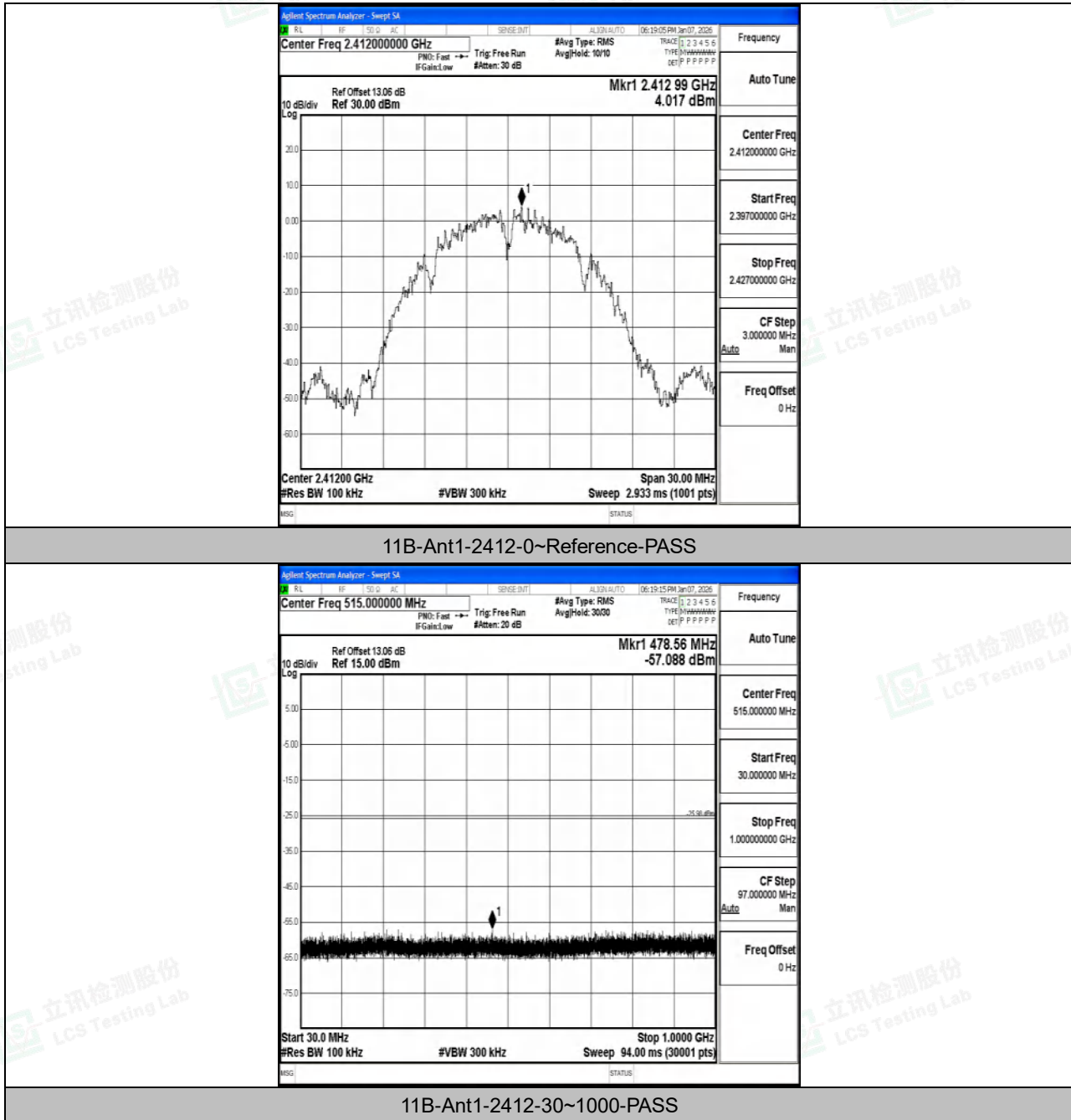
TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	0~Reference	4.02	4.02	---	PASS
11B	Ant1	2412	30~1000	4.02	-57.09	≤-25.98	PASS
11B	Ant1	2412	1000~26500	4.02	-44.45	≤-25.98	PASS
11B	Ant1	2437	0~Reference	7.47	7.47	---	PASS
11B	Ant1	2437	30~1000	7.47	-56.31	≤-22.53	PASS
11B	Ant1	2437	1000~26500	7.47	-44.28	≤-22.53	PASS
11B	Ant1	2462	0~Reference	4.35	4.35	---	PASS
11B	Ant1	2462	30~1000	4.35	-56.76	≤-25.65	PASS
11B	Ant1	2462	1000~26500	4.35	-44.64	≤-25.65	PASS
11G	Ant1	2412	0~Reference	-1.27	-1.27	---	PASS
11G	Ant1	2412	30~1000	-1.27	-56.46	≤-31.27	PASS
11G	Ant1	2412	1000~26500	-1.27	-44.15	≤-31.27	PASS
11G	Ant1	2437	0~Reference	7.43	7.43	---	PASS
11G	Ant1	2437	30~1000	7.43	-55.84	≤-22.57	PASS
11G	Ant1	2437	1000~26500	7.43	-44.04	≤-22.57	PASS
11G	Ant1	2462	0~Reference	1.68	1.68	---	PASS
11G	Ant1	2462	30~1000	1.68	-56.76	≤-28.32	PASS
11G	Ant1	2462	1000~26500	1.68	-44.43	≤-28.32	PASS
11N20SISO	Ant1	2412	0~Reference	-4.16	-4.16	---	PASS
11N20SISO	Ant1	2412	30~1000	-4.16	-55.87	≤-34.16	PASS
11N20SISO	Ant1	2412	1000~26500	-4.16	-44.78	≤-34.16	PASS
11N20SISO	Ant1	2437	0~Reference	1.00	1.00	---	PASS
11N20SISO	Ant1	2437	30~1000	1.00	-55.61	≤-29	PASS
11N20SISO	Ant1	2437	1000~26500	1.00	-44.38	≤-29	PASS
11N20SISO	Ant1	2462	0~Reference	-1.98	-1.98	---	PASS
11N20SISO	Ant1	2462	30~1000	-1.98	-56.56	≤-31.98	PASS
11N20SISO	Ant1	2462	1000~26500	-1.98	-44.13	≤-31.98	PASS
11N40SISO	Ant1	2422	0~Reference	-0.68	-0.68	---	PASS
11N40SISO	Ant1	2422	30~1000	-0.68	-57.15	≤-30.68	PASS
11N40SISO	Ant1	2422	1000~26500	-0.68	-44.24	≤-30.68	PASS
11N40SISO	Ant1	2437	0~Reference	-1.57	-1.57	---	PASS
11N40SISO	Ant1	2437	30~1000	-1.57	-56.42	≤-31.57	PASS
11N40SISO	Ant1	2437	1000~26500	-1.57	-44.66	≤-31.57	PASS
11N40SISO	Ant1	2452	0~Reference	0.64	0.64	---	PASS
11N40SISO	Ant1	2452	30~1000	0.64	-48.02	≤-29.36	PASS
11N40SISO	Ant1	2452	1000~26500	0.64	-44.78	≤-29.36	PASS

Note :Regarding the spurious emissions from 30MHz to 26.5GHz, the cable lose have been set in the CORREC' of the Spectrum Analyzer during the test.





Test Graphs

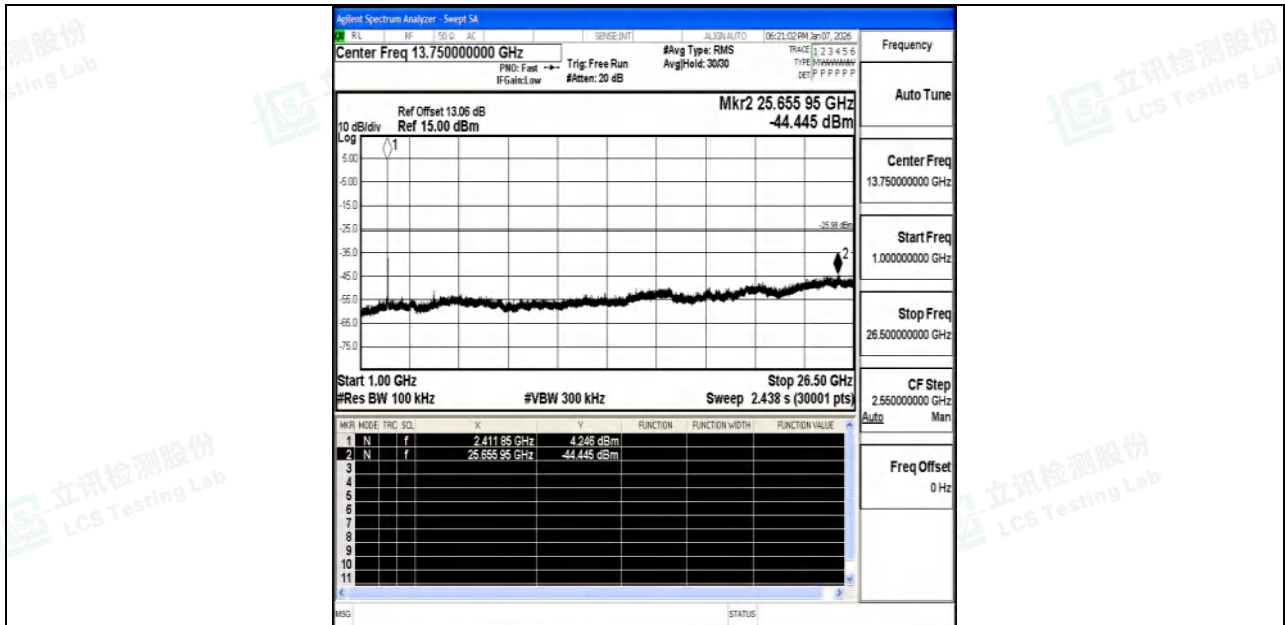


Shenzhen LCS Compliance Testing Laboratory Ltd.

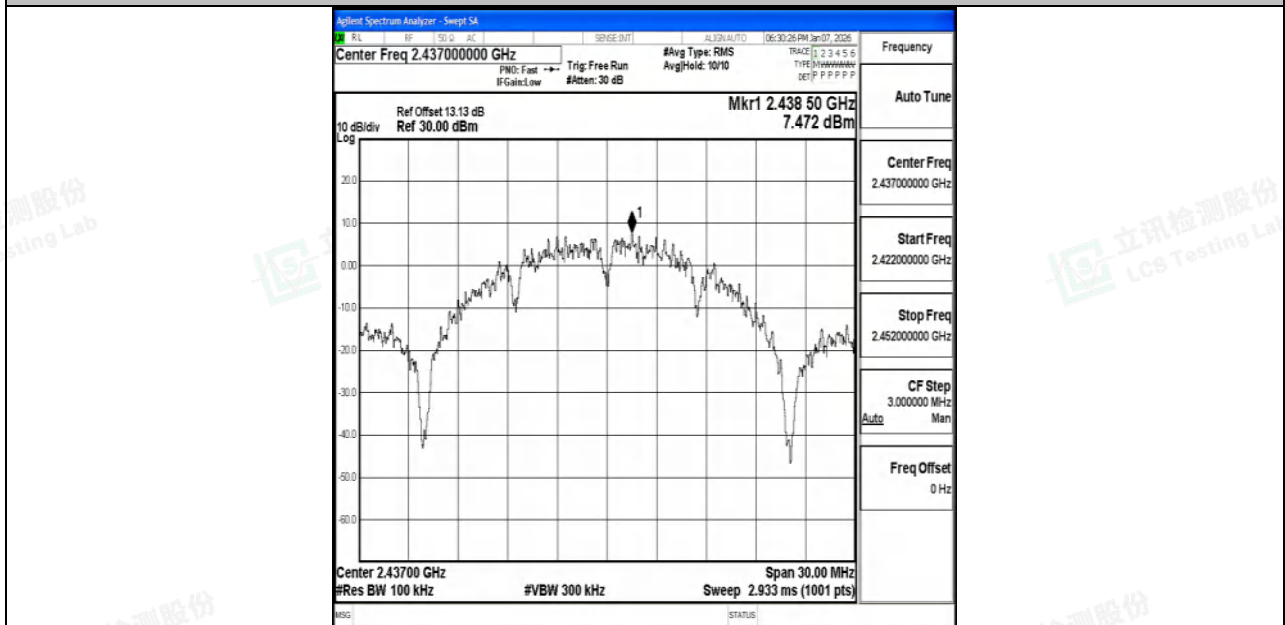
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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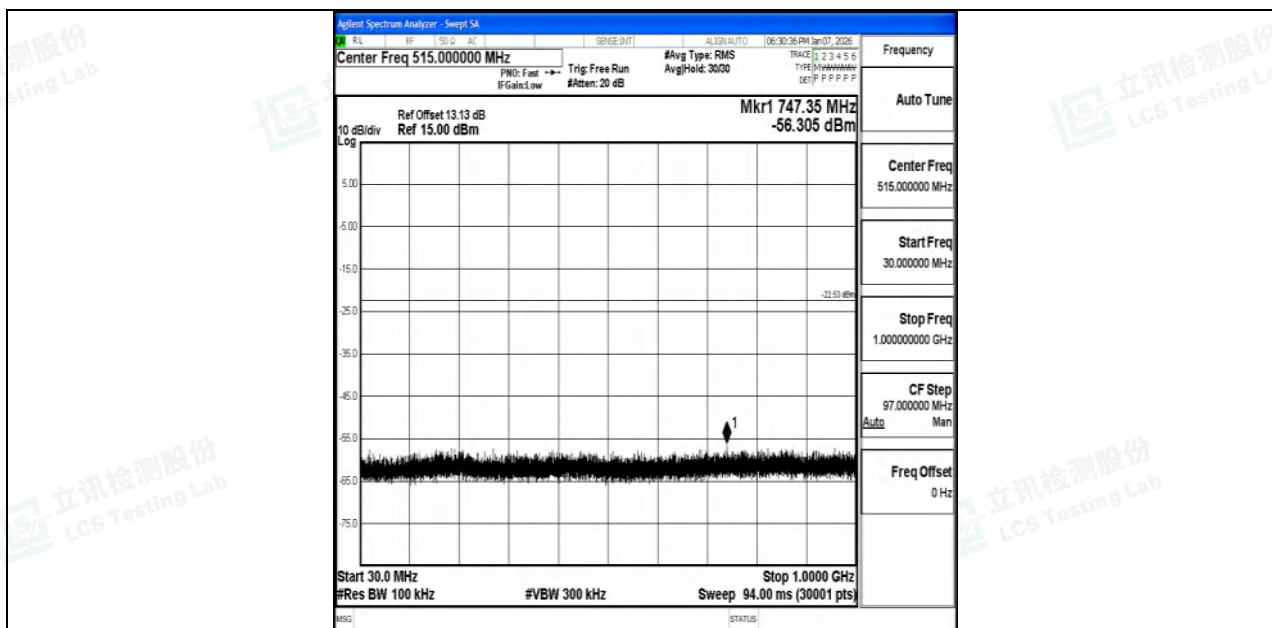


11B-Ant1-2412-1000~26500-PASS

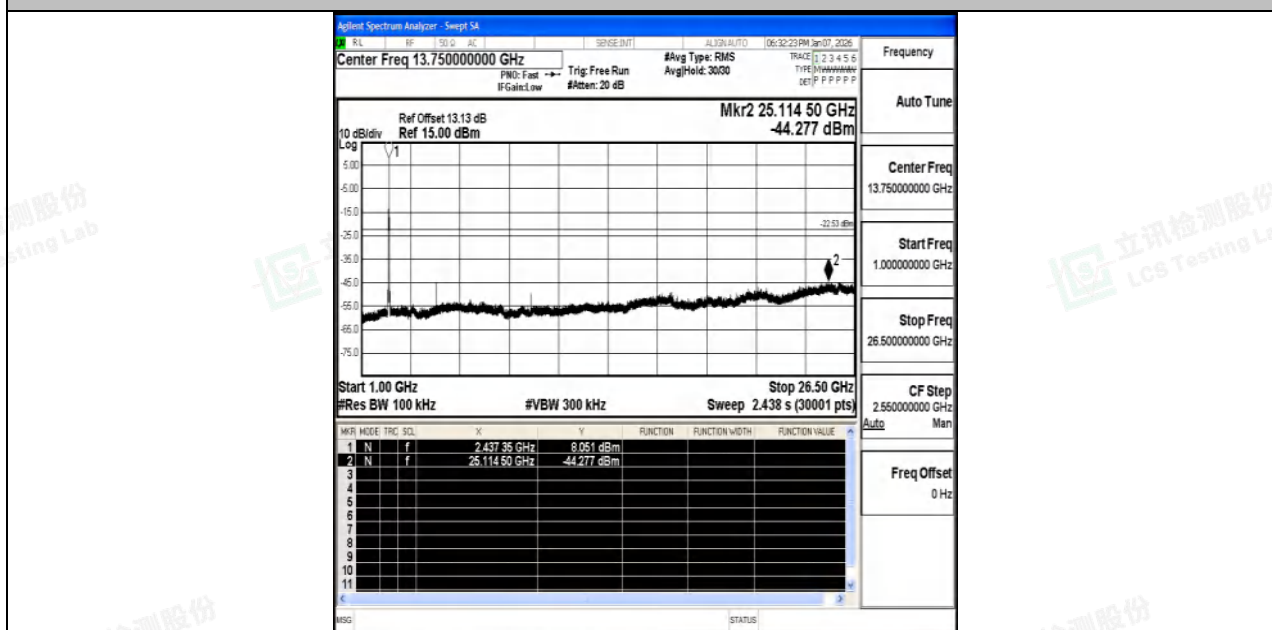


11B-Ant1-2437-0~Reference-PASS





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



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

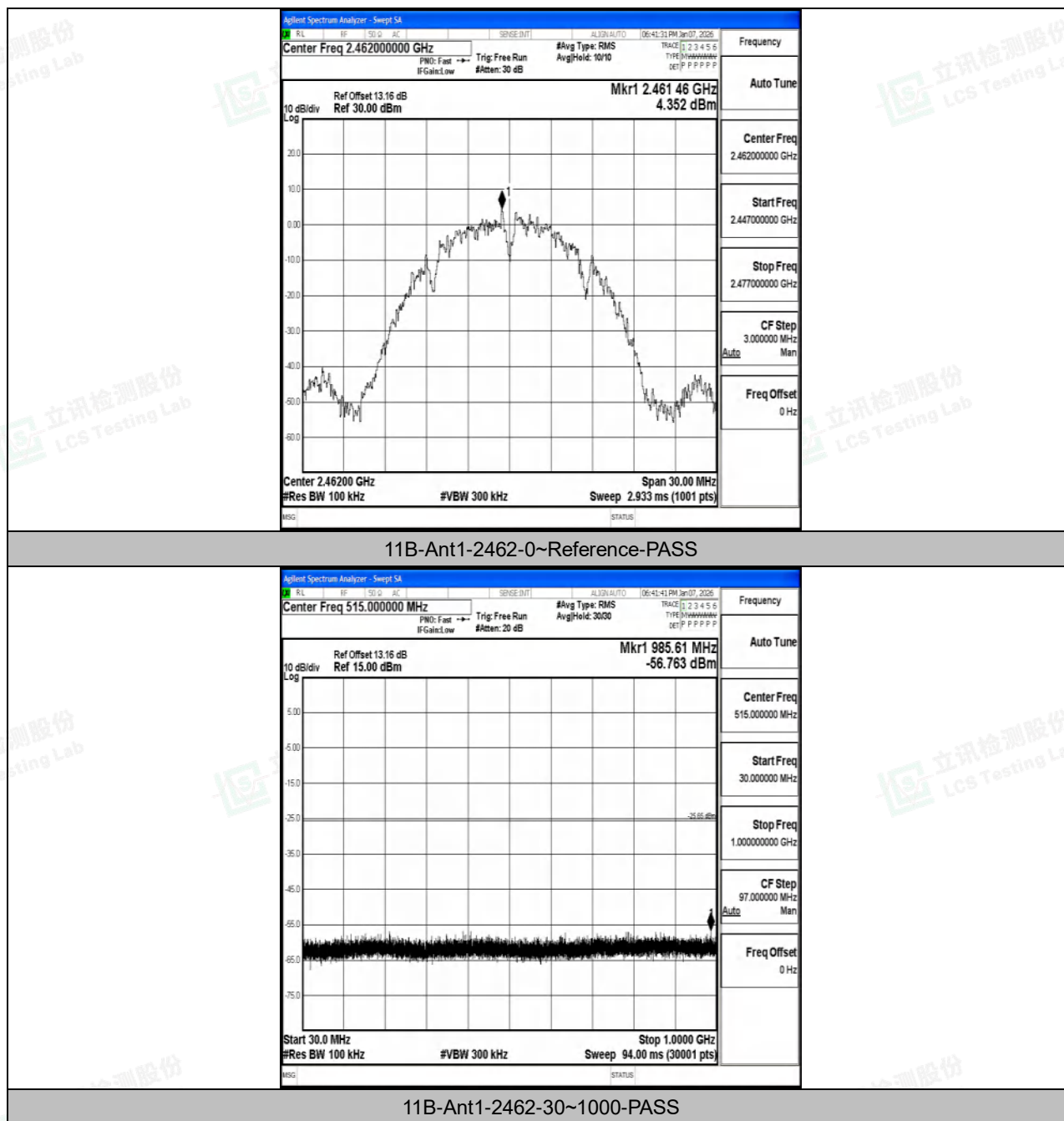


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Scan code to check authenticity

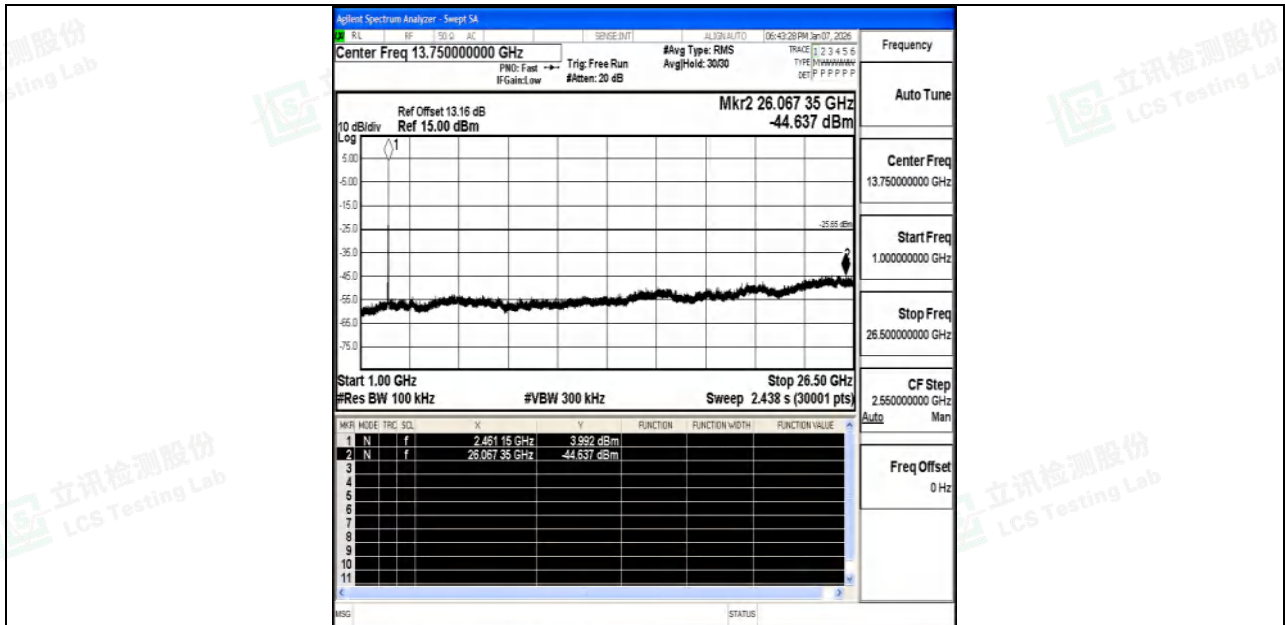


Shenzhen LCS Compliance Testing Laboratory Ltd.

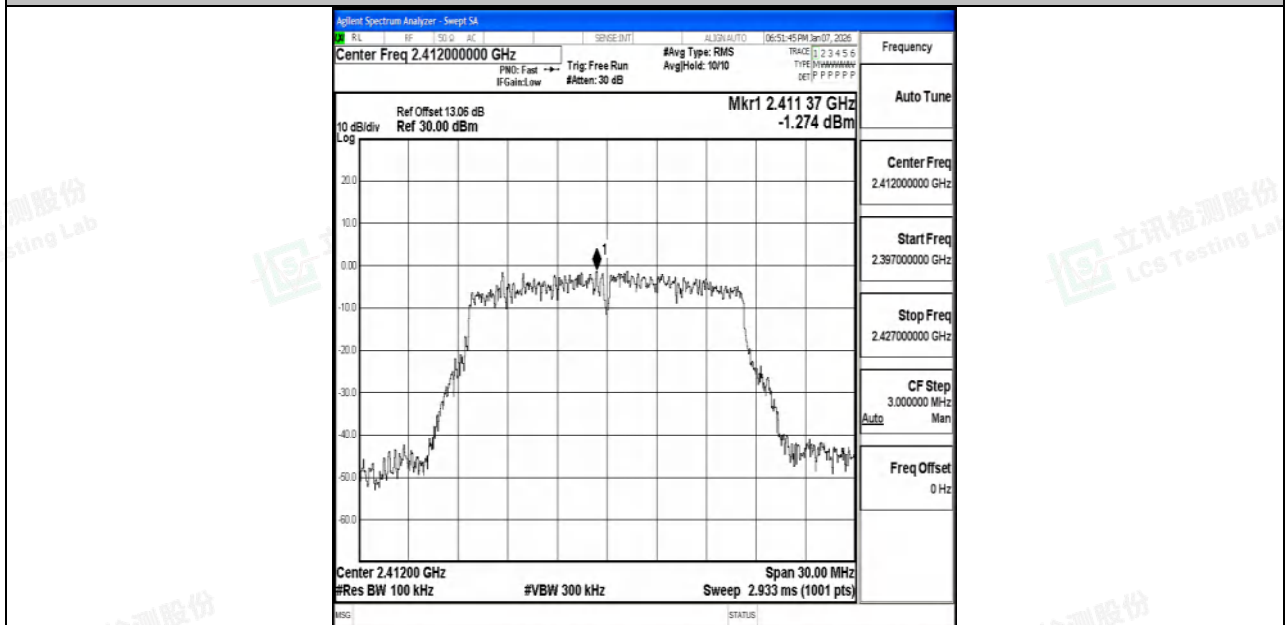
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Scan code to check authenticity

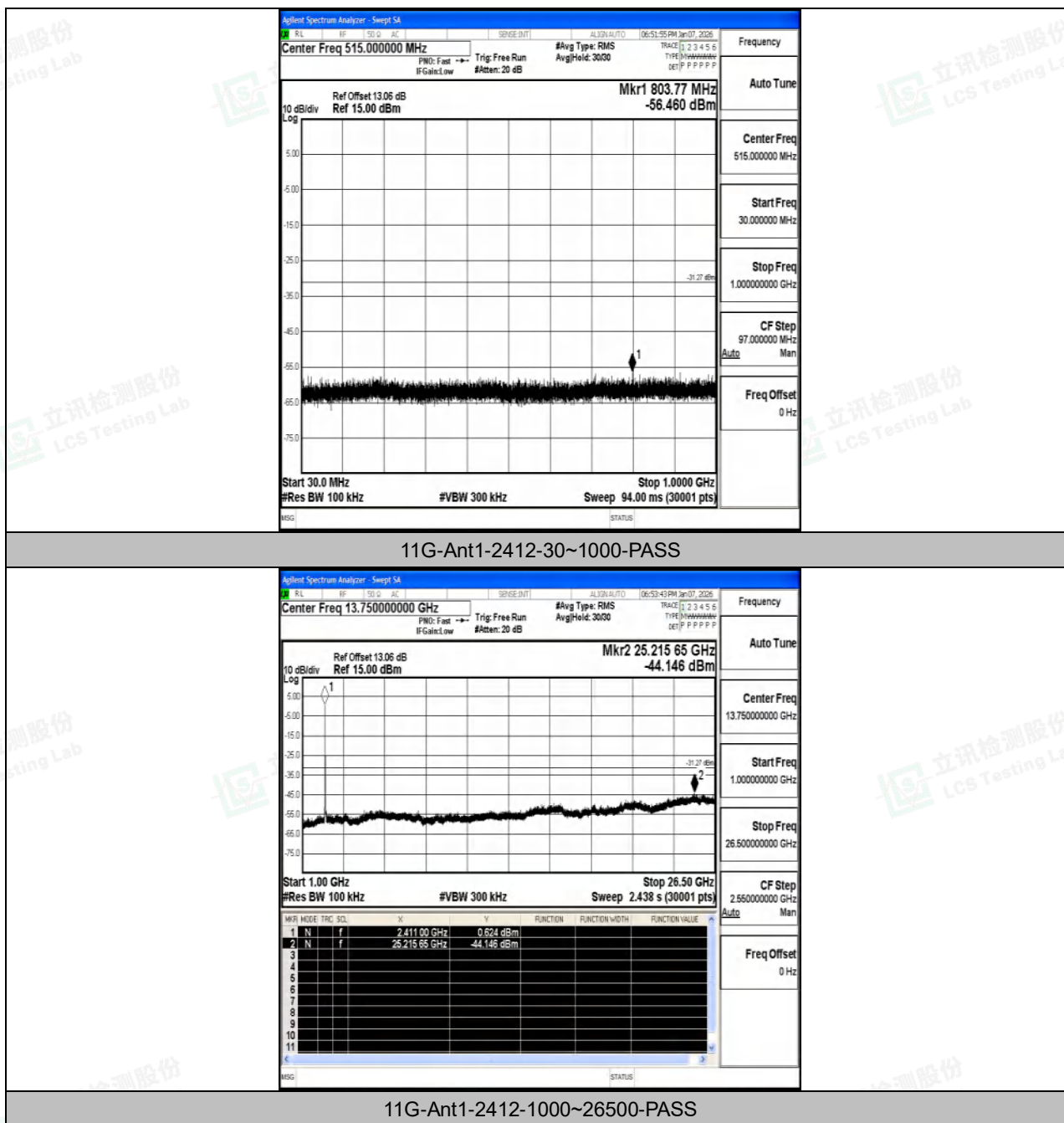


11B-Ant1-2462-1000~26500-PASS



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



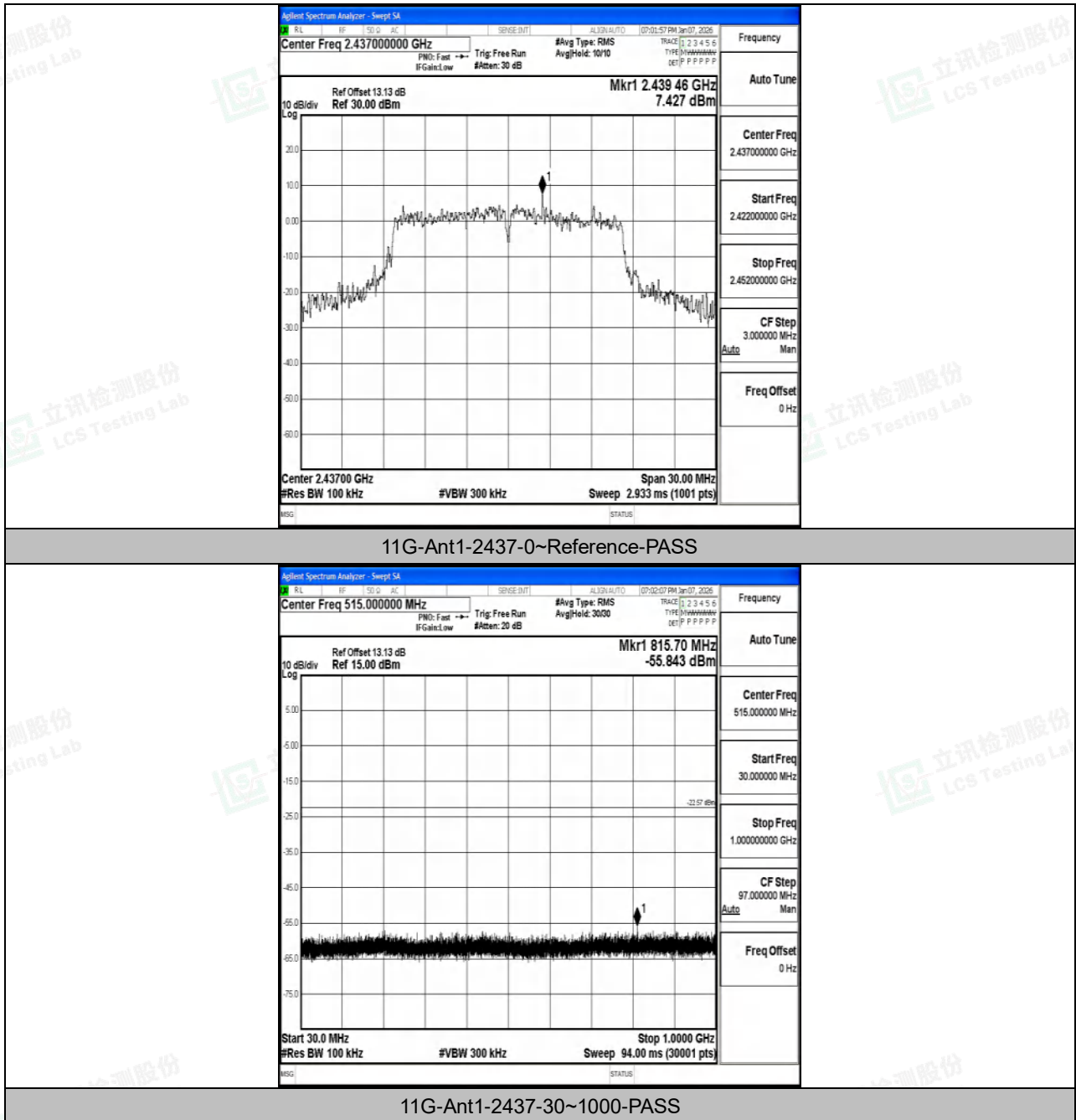


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Scan code to check authenticity

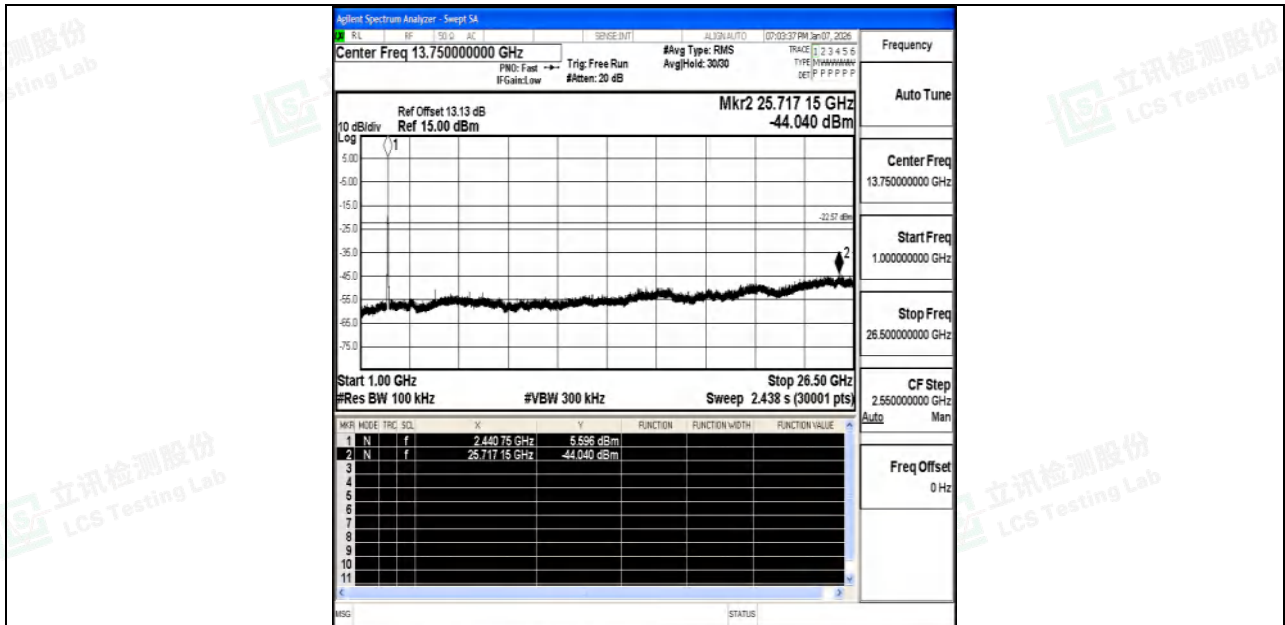


Shenzhen LCS Compliance Testing Laboratory Ltd.

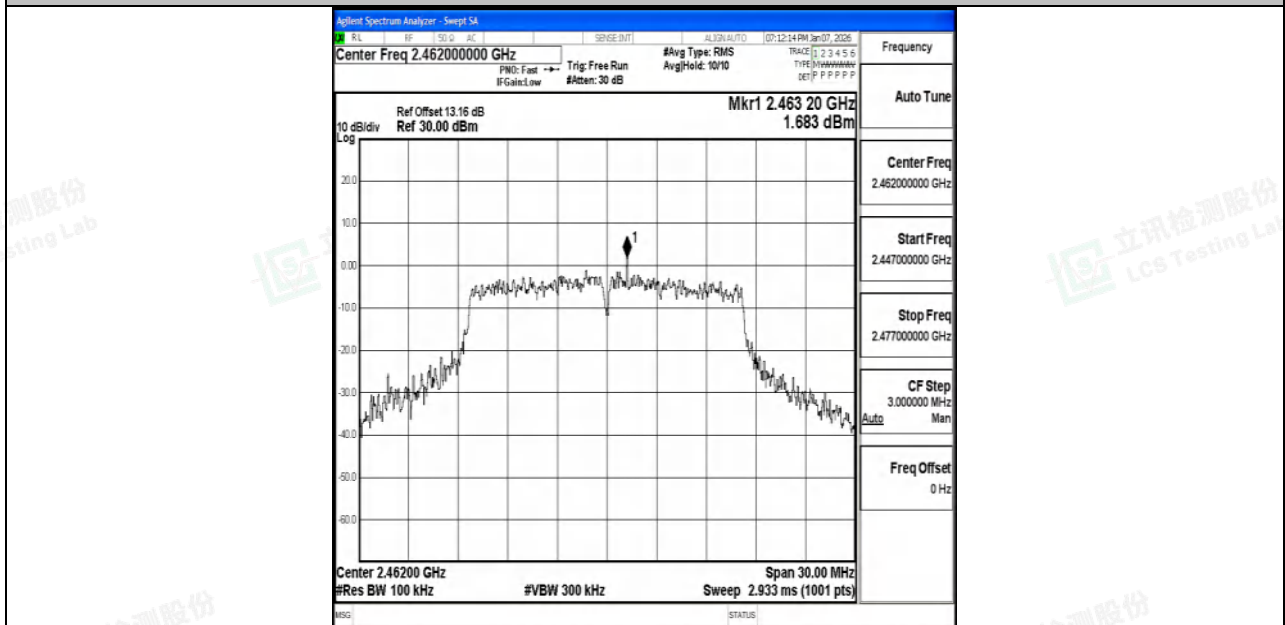
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

Scan code to check authenticity

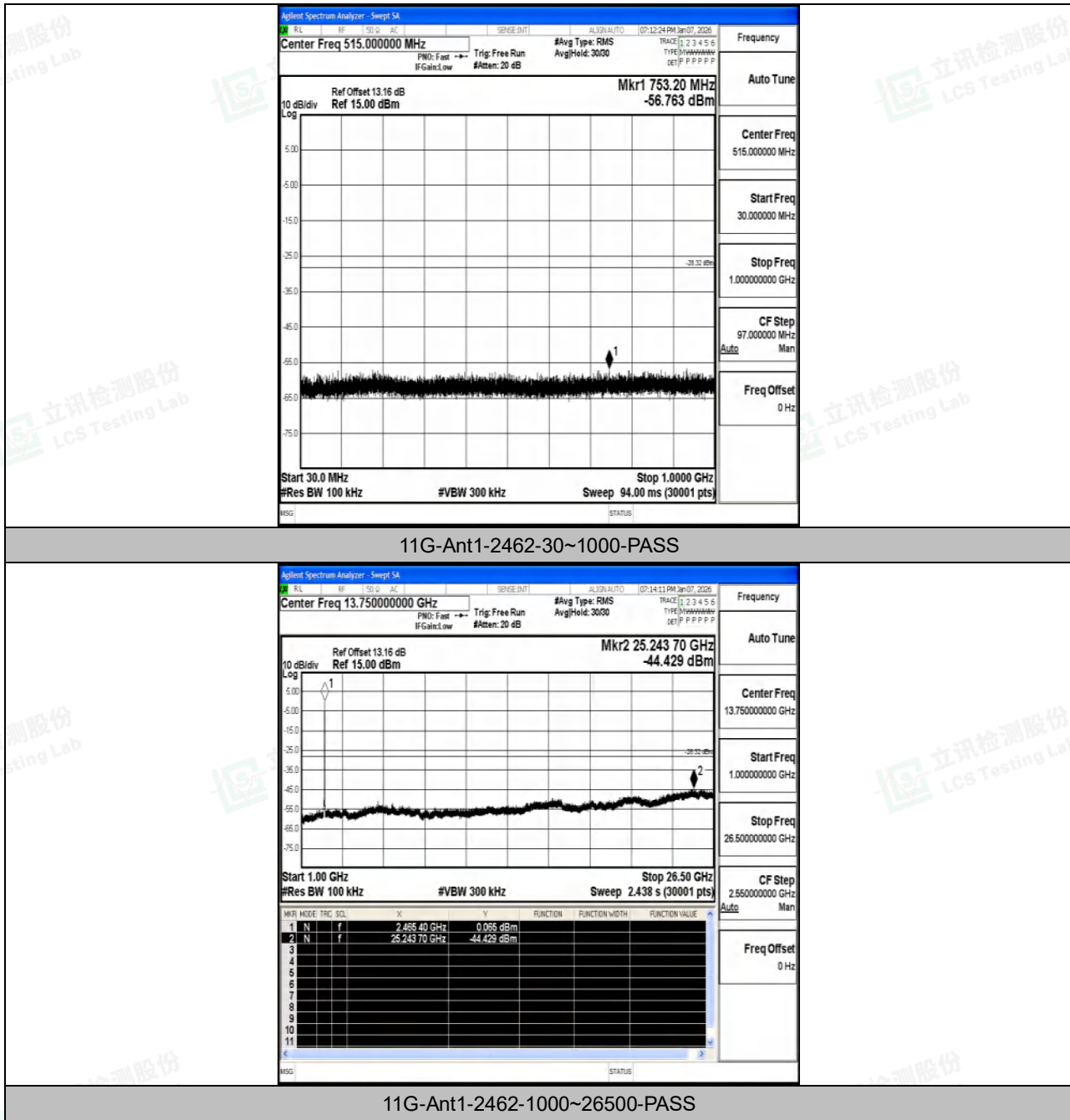


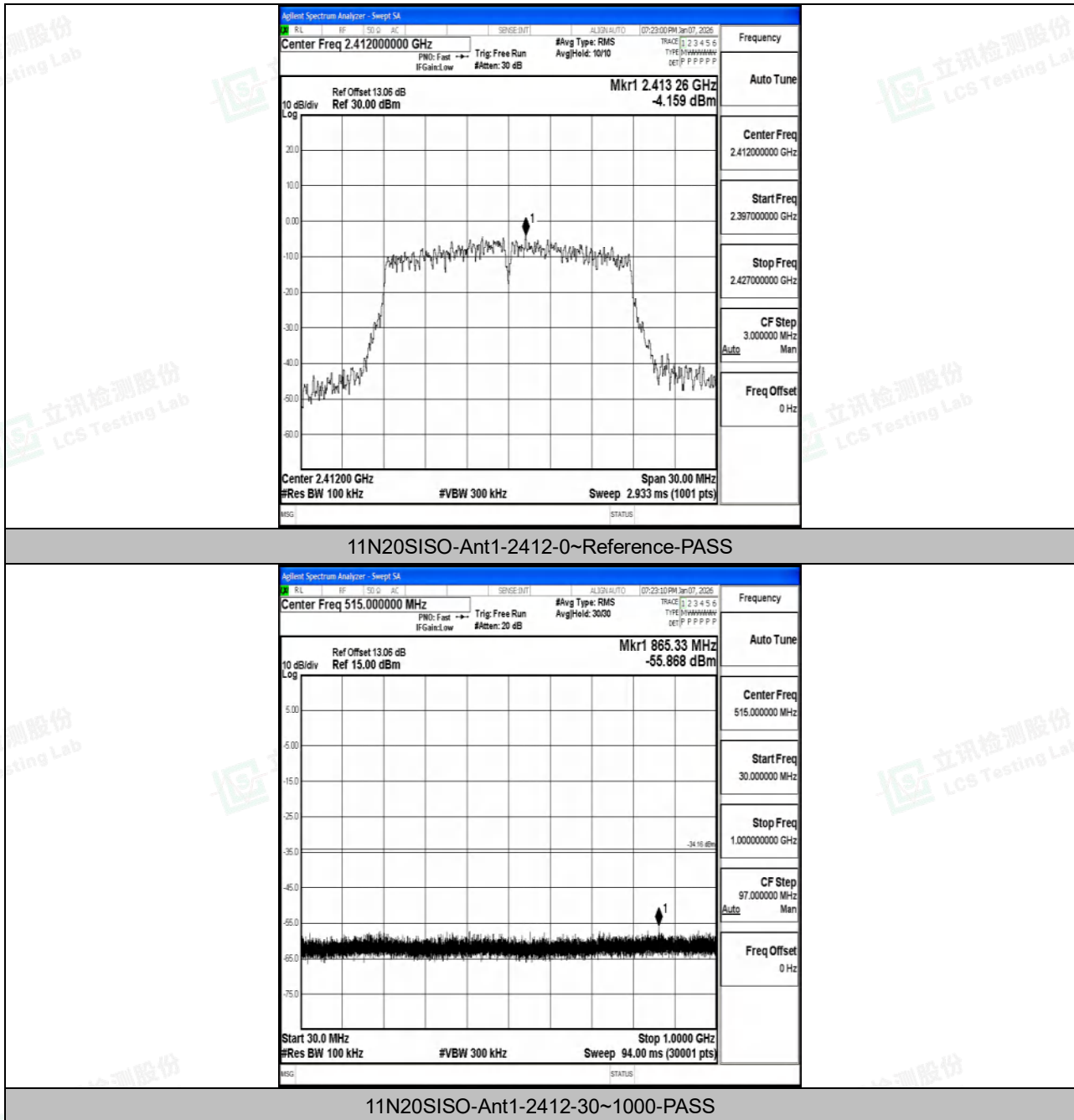
11G-Ant1-2437-1000~26500-PASS

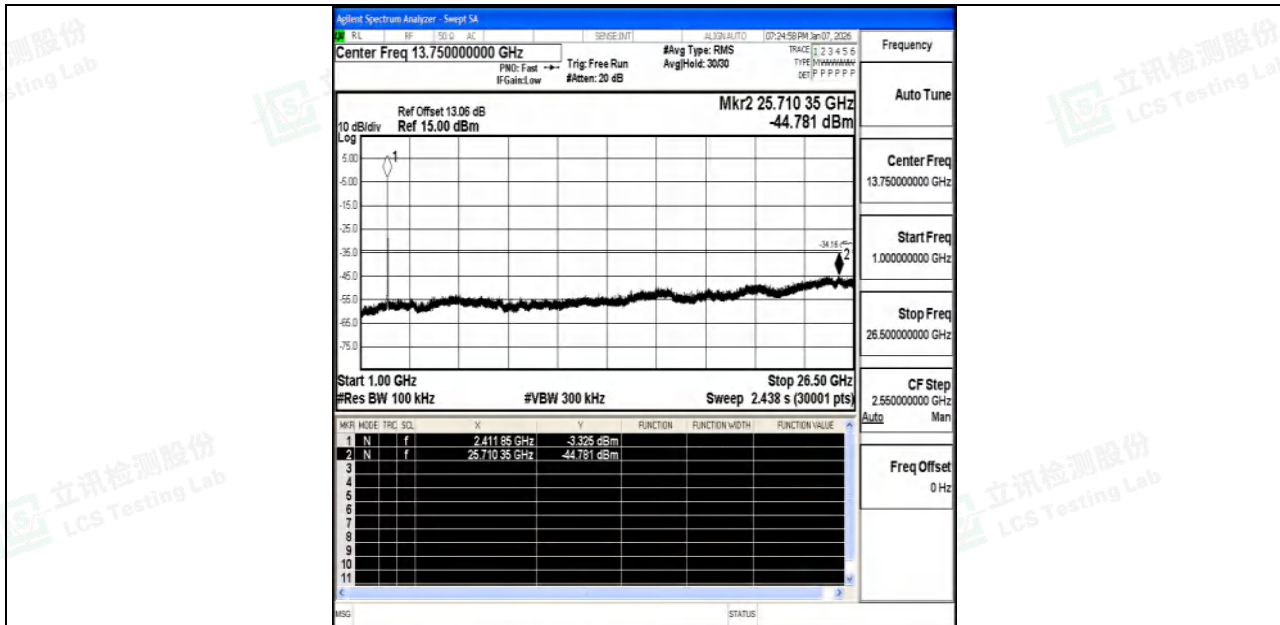


11G-Ant1-2462-0~Reference-PASS

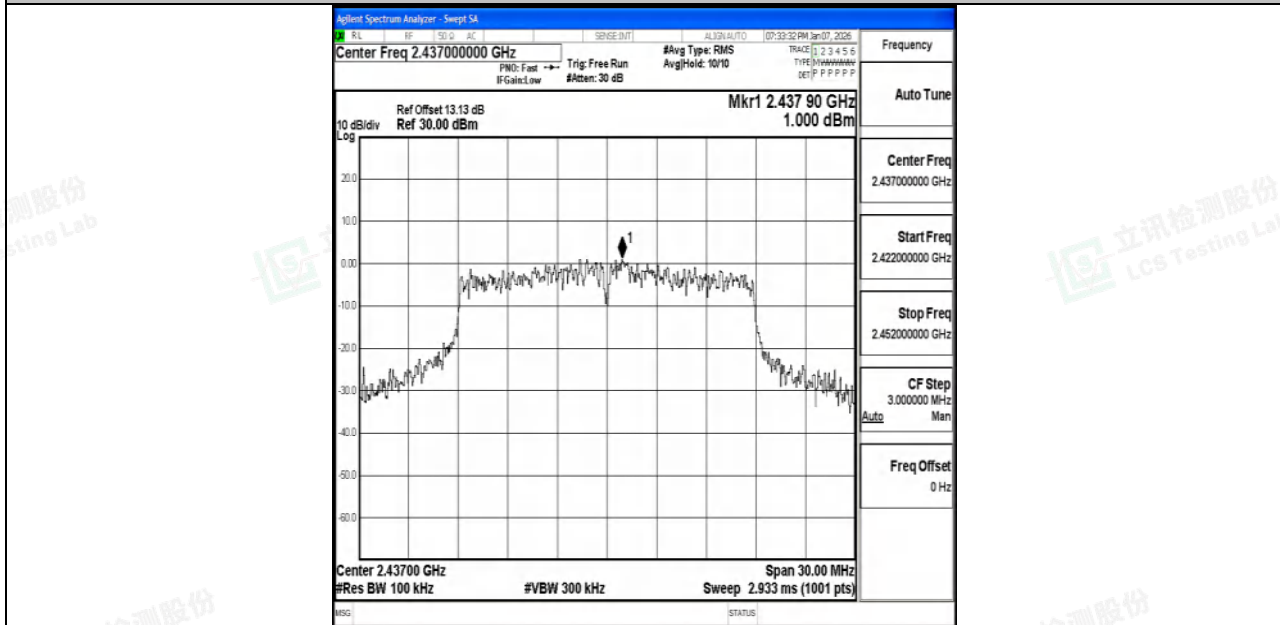






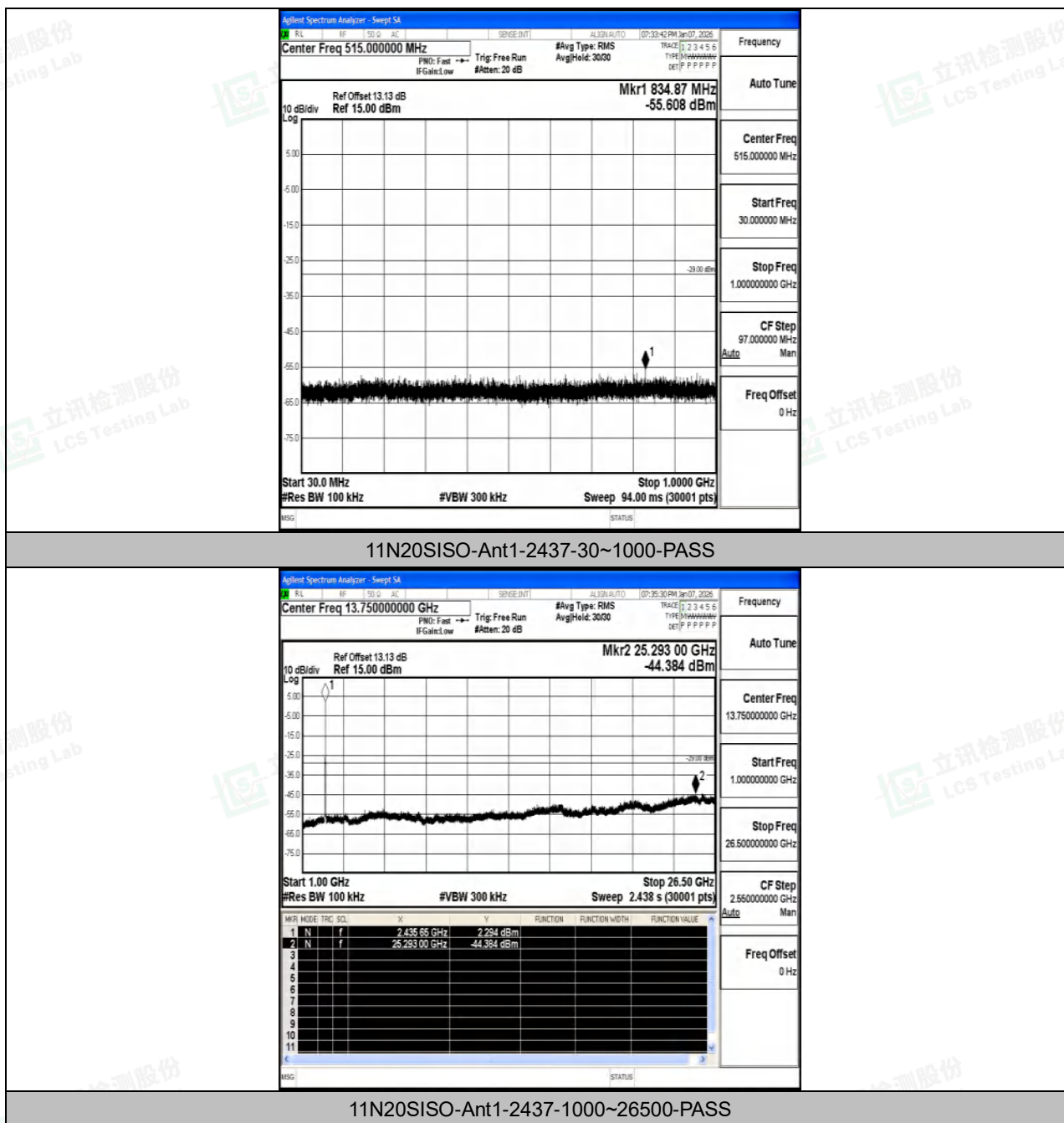


11N20SISO-Ant1-2412-1000~26500-PASS



11N20SISO-Ant1-2437-0~Reference-PASS



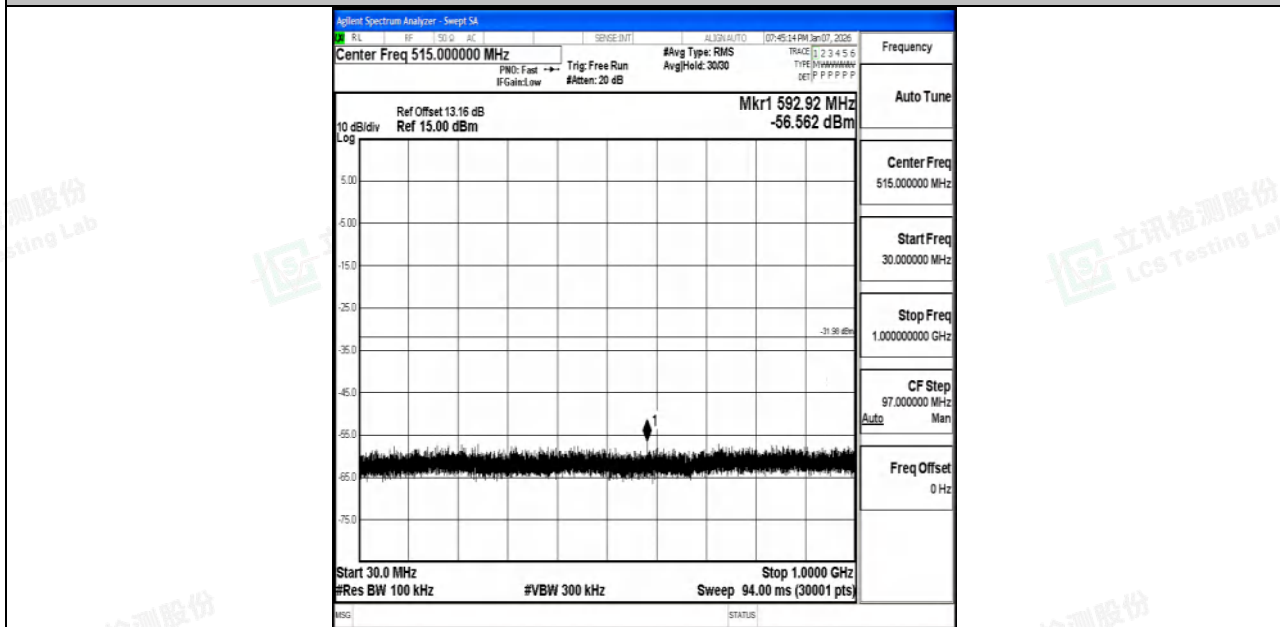
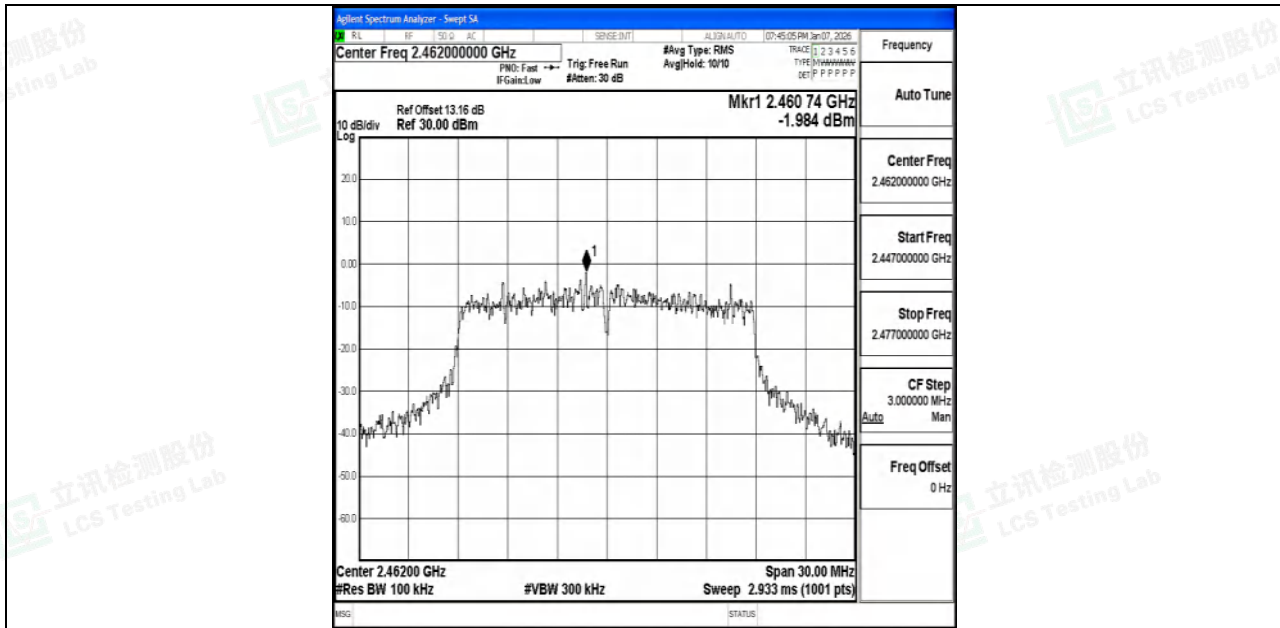


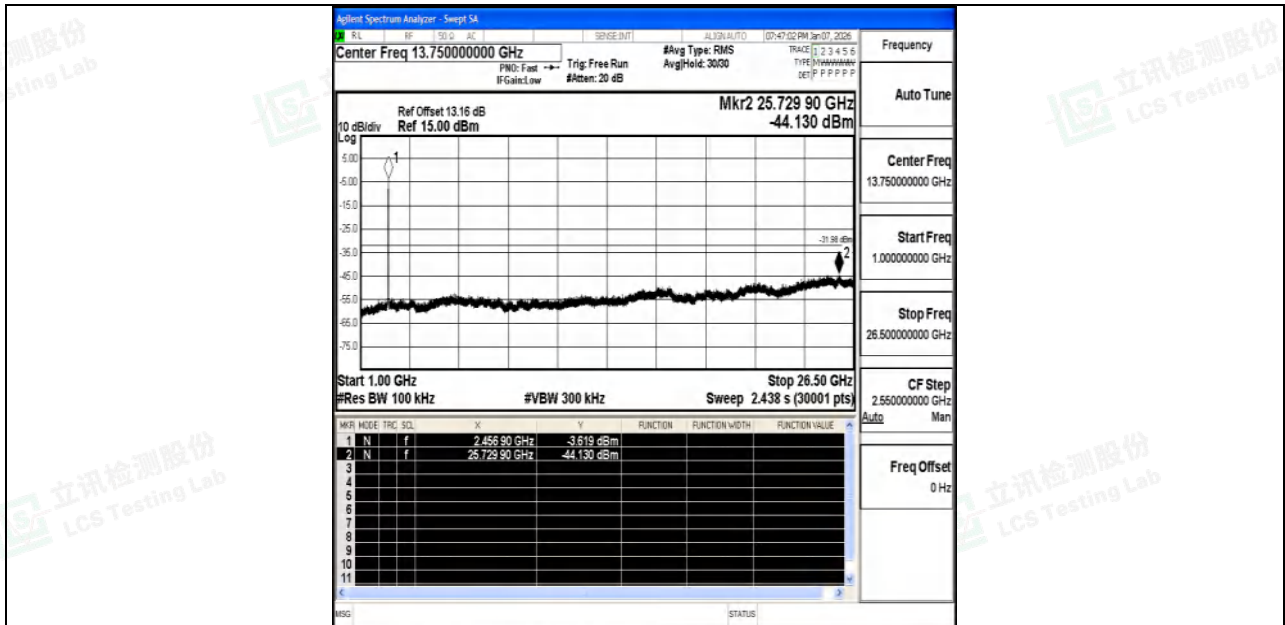
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Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

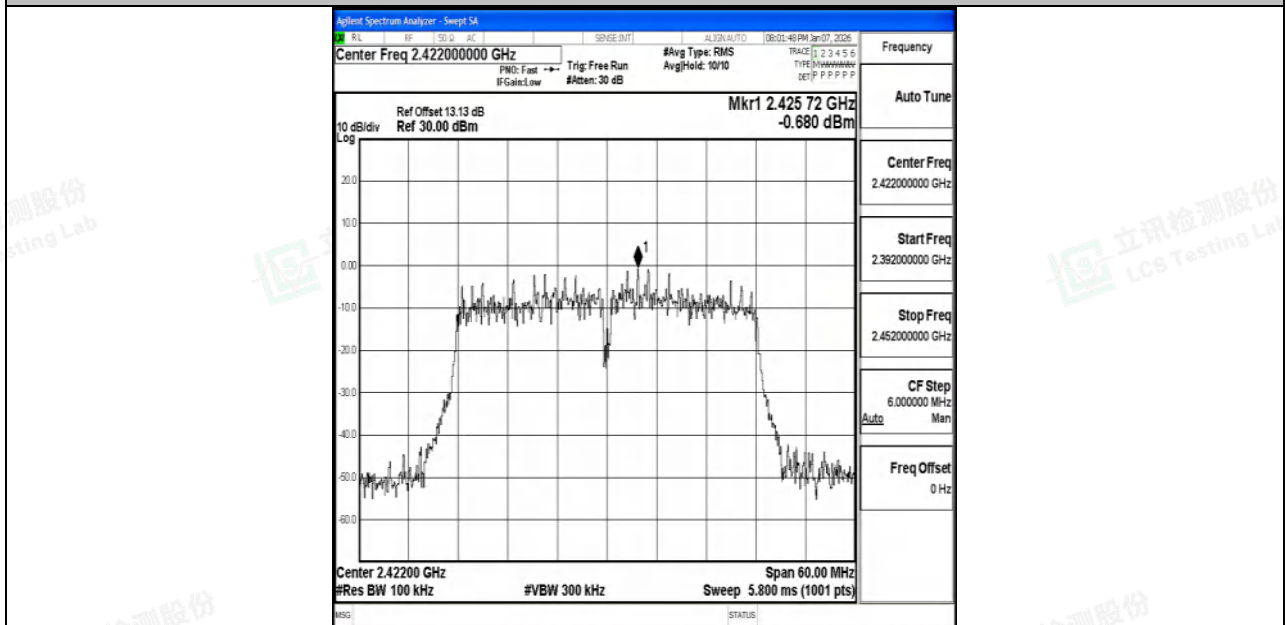
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Scan code to check authenticity



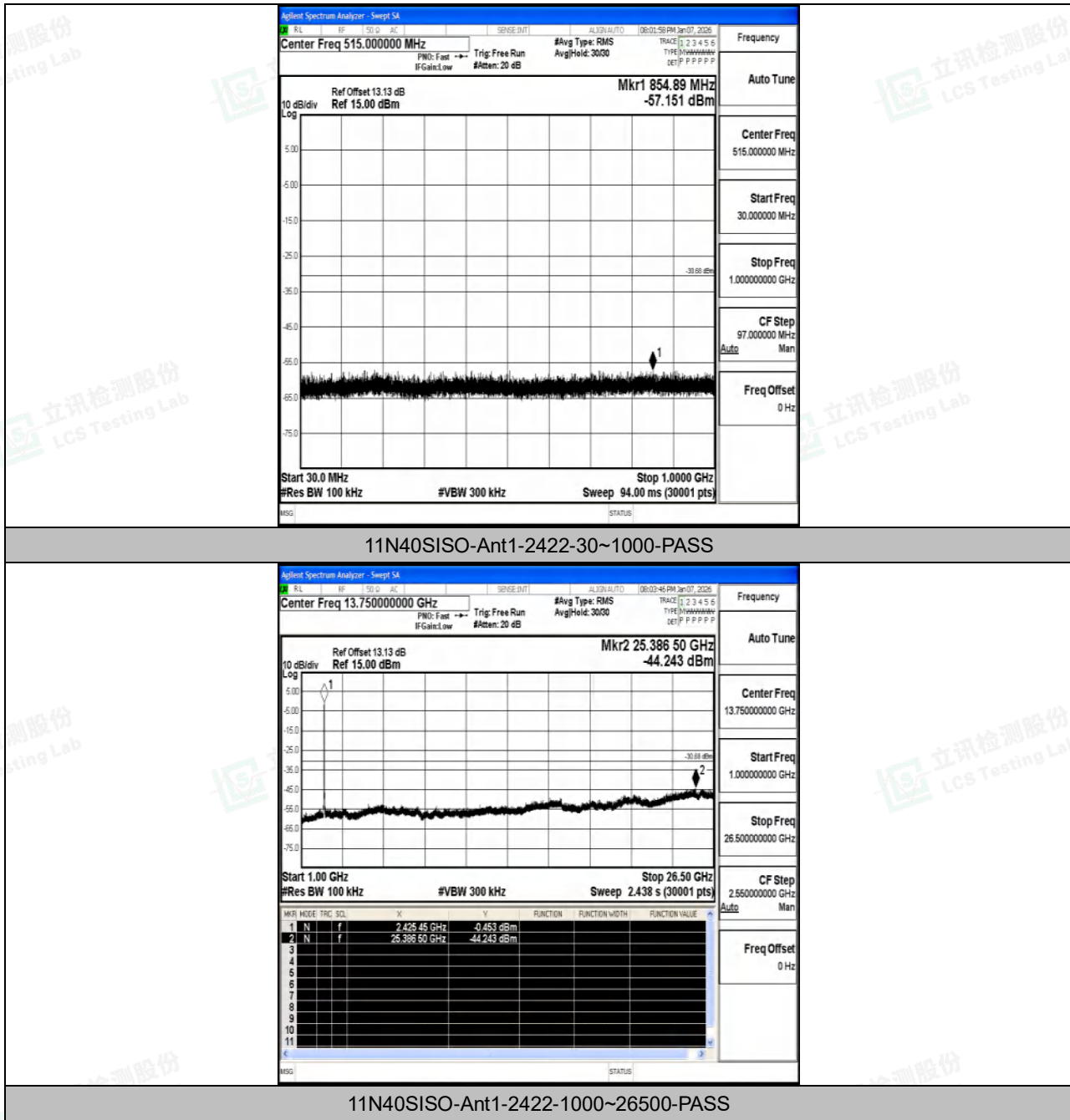


11N20SISO-Ant1-2462-1000~26500-PASS



11N40SISO-Ant1-2422-0~Reference-PASS



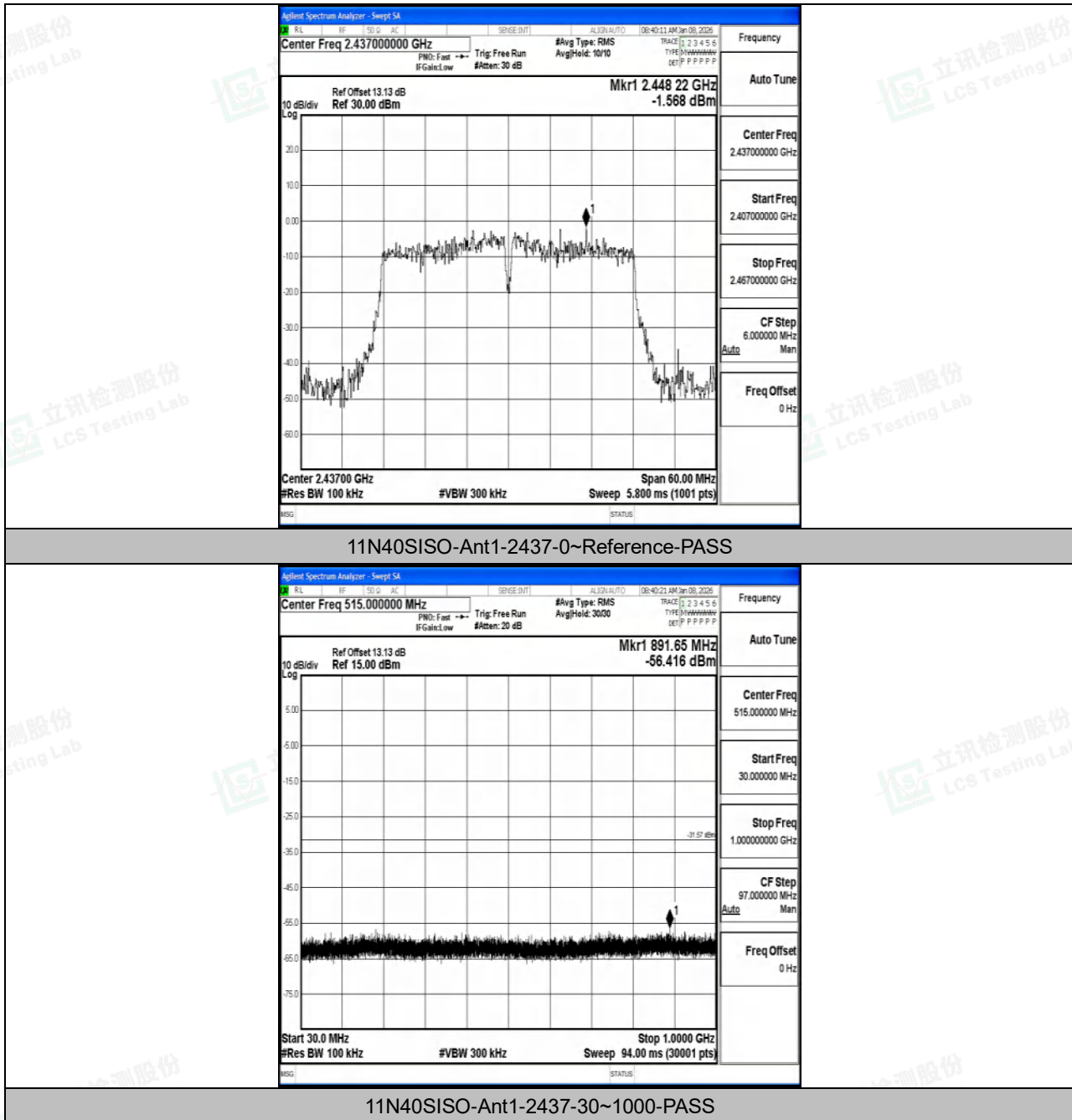


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Scan code to check authenticity

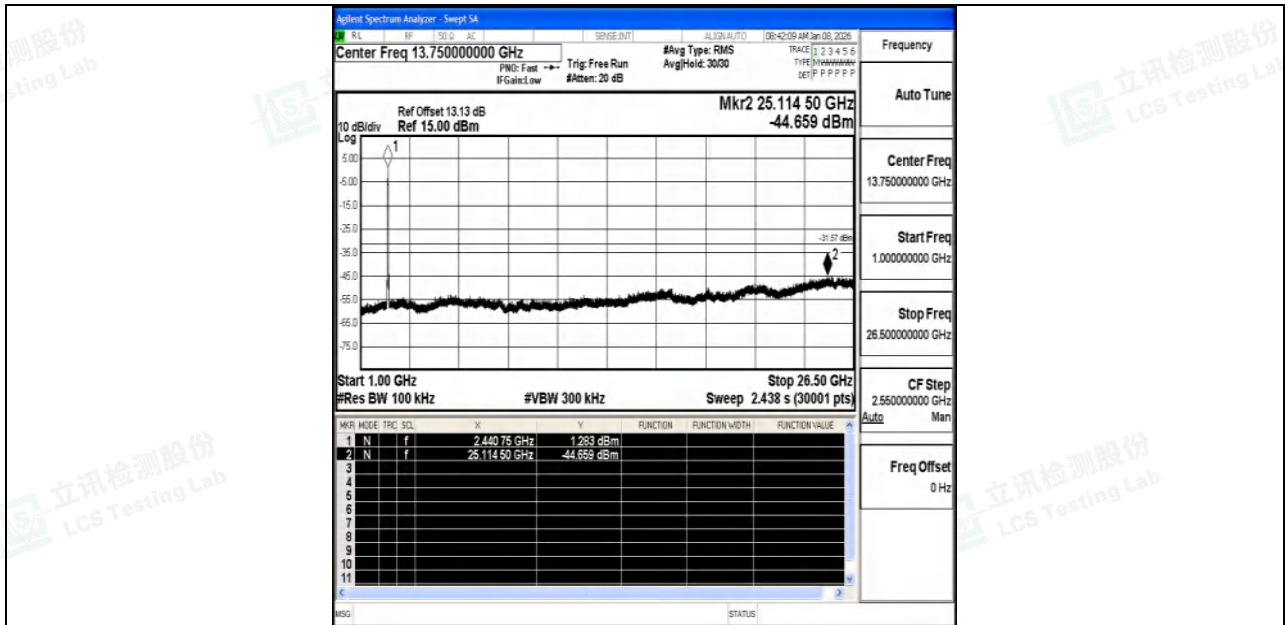


Shenzhen LCS Compliance Testing Laboratory Ltd.

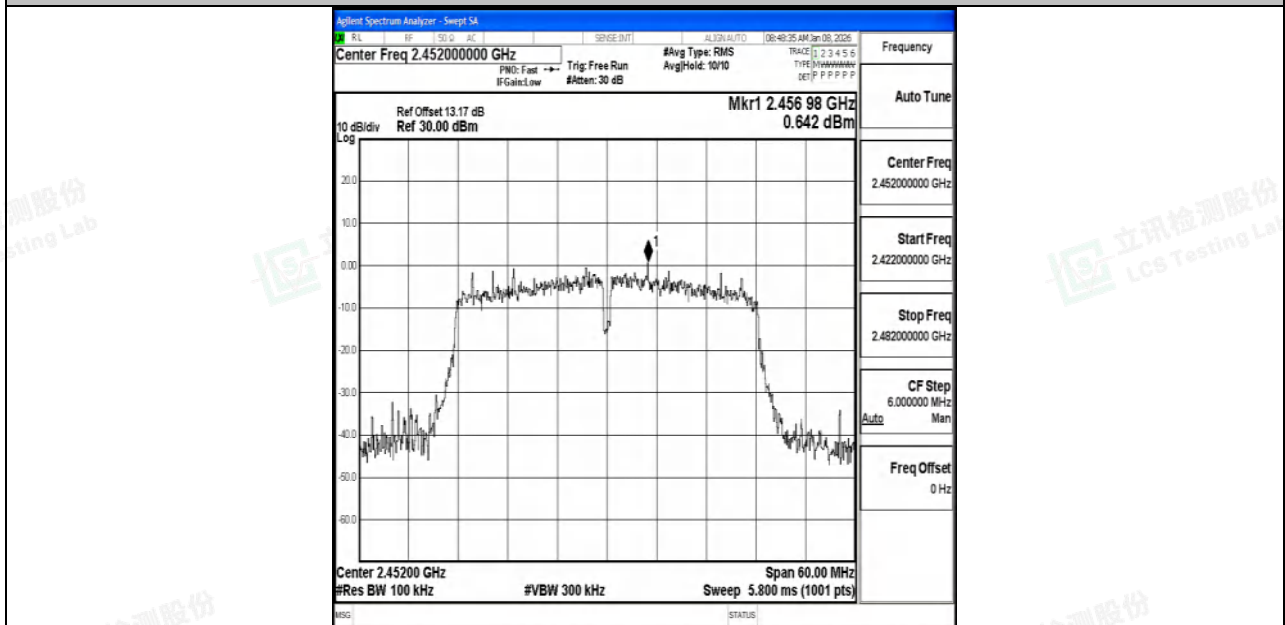
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

Scan code to check authenticity

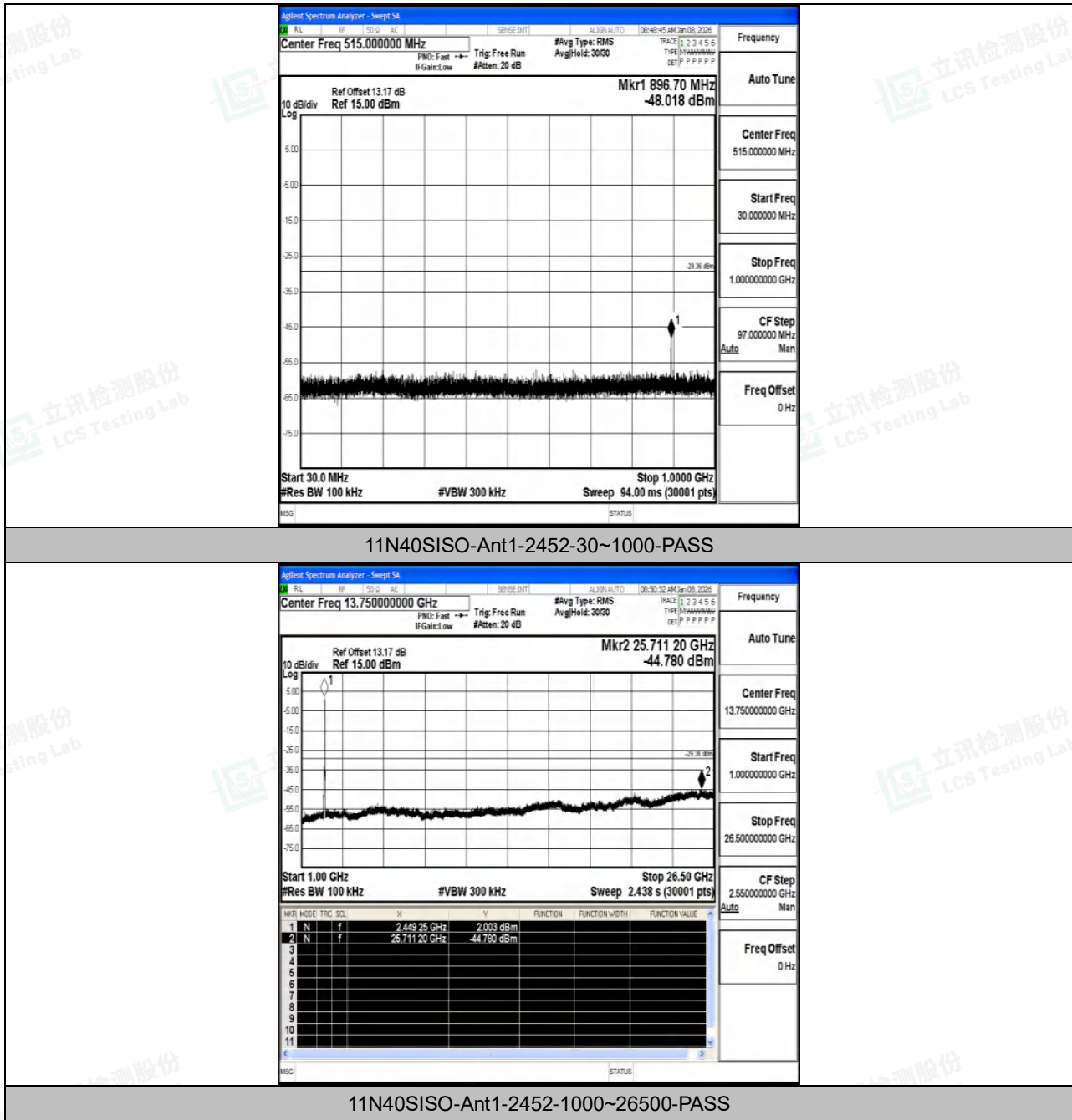


11N40SISO-Ant1-2437-1000~26500-PASS



11N40SISO-Ant1-2452-0~Reference-PASS







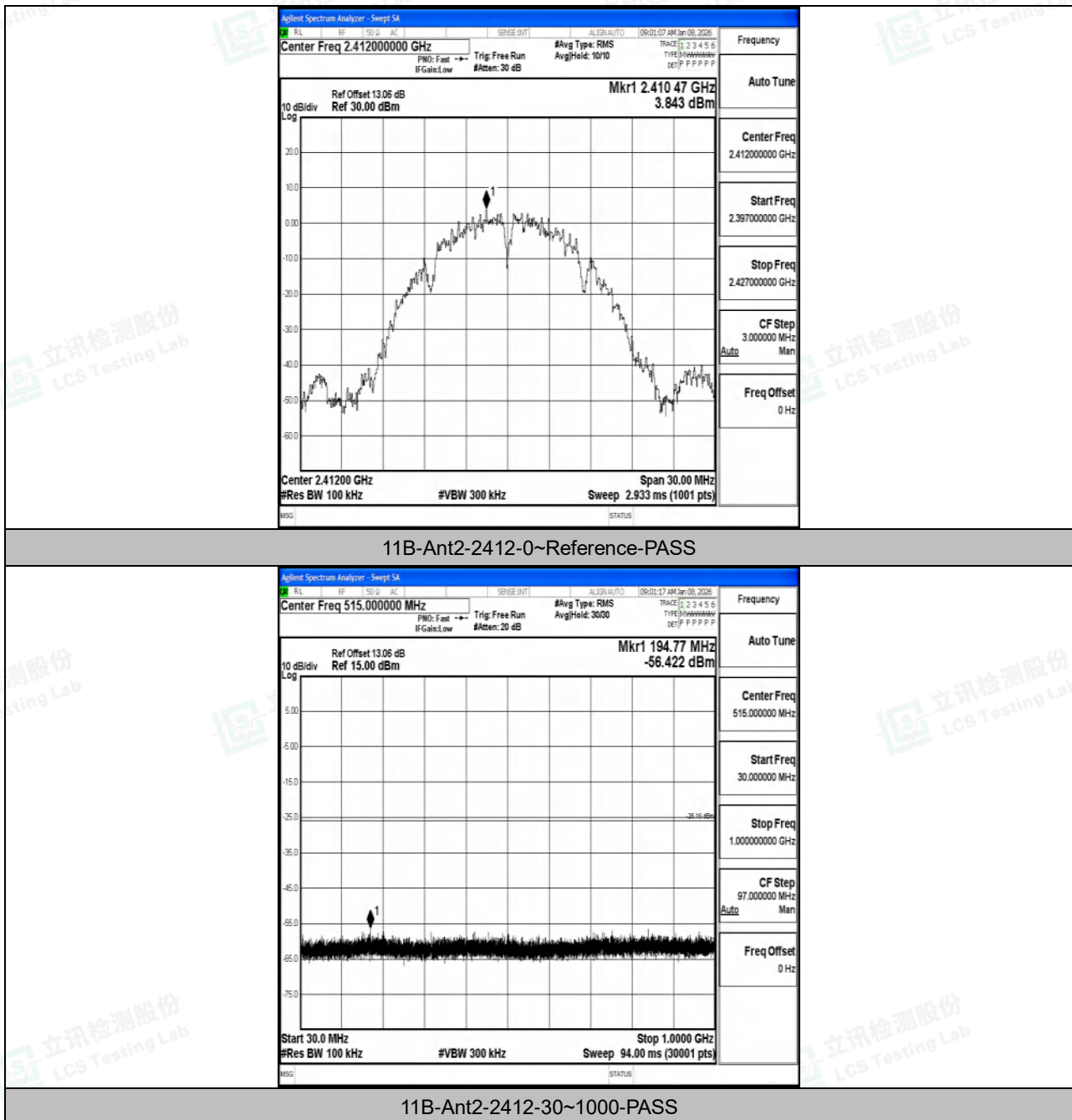
TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant2	2412	0~Reference	3.84	3.84	---	PASS
11B	Ant2	2412	30~1000	3.84	-56.42	≤-26.16	PASS
11B	Ant2	2412	1000~26500	3.84	-44.5	≤-26.16	PASS
11B	Ant2	2437	0~Reference	8.35	8.35	---	PASS
11B	Ant2	2437	30~1000	8.35	-56.24	≤-21.65	PASS
11B	Ant2	2437	1000~26500	8.35	-44.4	≤-21.65	PASS
11B	Ant2	2462	0~Reference	4.10	4.10	---	PASS
11B	Ant2	2462	30~1000	4.10	-56.71	≤-25.9	PASS
11B	Ant2	2462	1000~26500	4.10	-44.33	≤-25.9	PASS
11G	Ant2	2412	0~Reference	1.13	1.13	---	PASS
11G	Ant2	2412	30~1000	1.13	-56.75	≤-28.87	PASS
11G	Ant2	2412	1000~26500	1.13	-44.42	≤-28.87	PASS
11G	Ant2	2437	0~Reference	-1.07	-1.07	---	PASS
11G	Ant2	2437	30~1000	-1.07	-56.69	≤-31.07	PASS
11G	Ant2	2437	1000~26500	-1.07	-44.24	≤-31.07	PASS
11G	Ant2	2462	0~Reference	-2.21	-2.21	---	PASS
11G	Ant2	2462	30~1000	-2.21	-56.15	≤-32.21	PASS
11G	Ant2	2462	1000~26500	-2.21	-44.44	≤-32.21	PASS
11N20SISO	Ant2	2412	0~Reference	-4.56	-4.56	---	PASS
11N20SISO	Ant2	2412	30~1000	-4.56	-57.41	≤-34.56	PASS
11N20SISO	Ant2	2412	1000~26500	-4.56	-44.4	≤-34.56	PASS
11N20SISO	Ant2	2437	0~Reference	-3.47	-3.47	---	PASS
11N20SISO	Ant2	2437	30~1000	-3.47	-56.29	≤-33.47	PASS
11N20SISO	Ant2	2437	1000~26500	-3.47	-44.19	≤-33.47	PASS
11N20SISO	Ant2	2462	0~Reference	-5.88	-5.88	---	PASS
11N20SISO	Ant2	2462	30~1000	-5.88	-57.06	≤-35.88	PASS
11N20SISO	Ant2	2462	1000~26500	-5.88	-44.5	≤-35.88	PASS
11N40SISO	Ant2	2422	0~Reference	-0.80	-0.80	---	PASS
11N40SISO	Ant2	2422	30~1000	-0.80	-56.9	≤-30.8	PASS
11N40SISO	Ant2	2422	1000~26500	-0.80	-44.27	≤-30.8	PASS
11N40SISO	Ant2	2437	0~Reference	-5.05	-5.05	---	PASS
11N40SISO	Ant2	2437	30~1000	-5.05	-55.6	≤-35.05	PASS
11N40SISO	Ant2	2437	1000~26500	-5.05	-43.87	≤-35.05	PASS
11N40SISO	Ant2	2452	0~Reference	1.21	1.21	---	PASS
11N40SISO	Ant2	2452	30~1000	1.21	-56.83	≤-28.79	PASS
11N40SISO	Ant2	2452	1000~26500	1.21	-44.4	≤-28.79	PASS

Note :Regarding the spurious emissions from 30MHz to 26.5GHz, the cable lose have been set in the CORREC' of the Spectrum Analyzer during the test.





Test Graphs

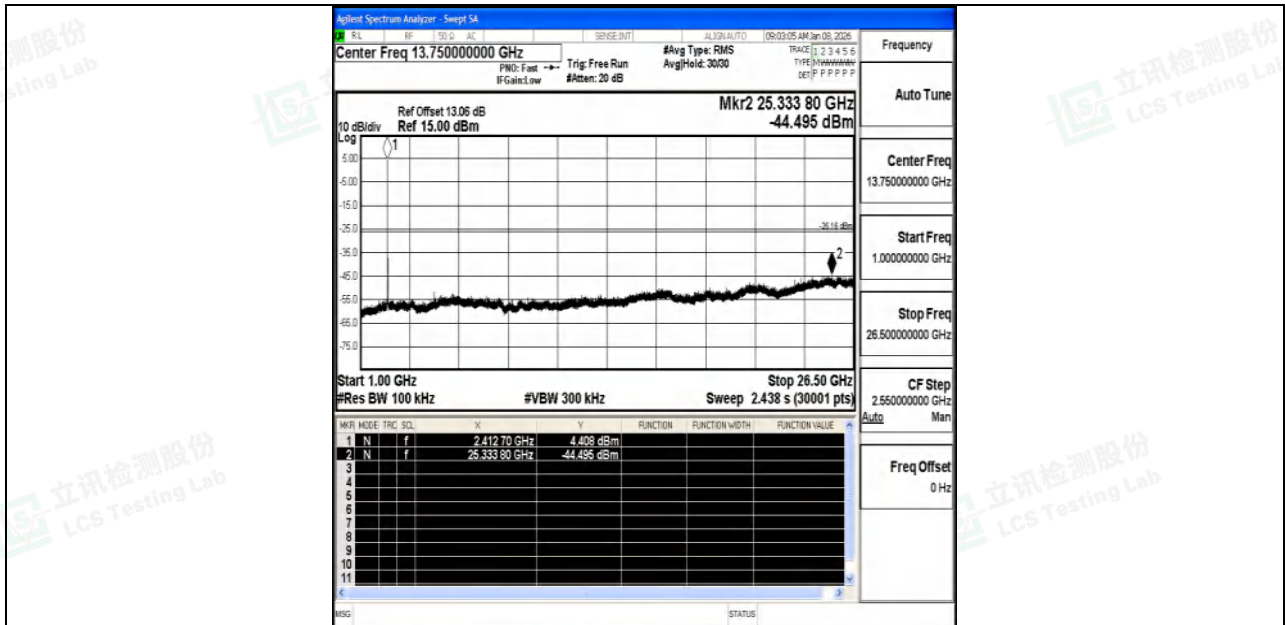


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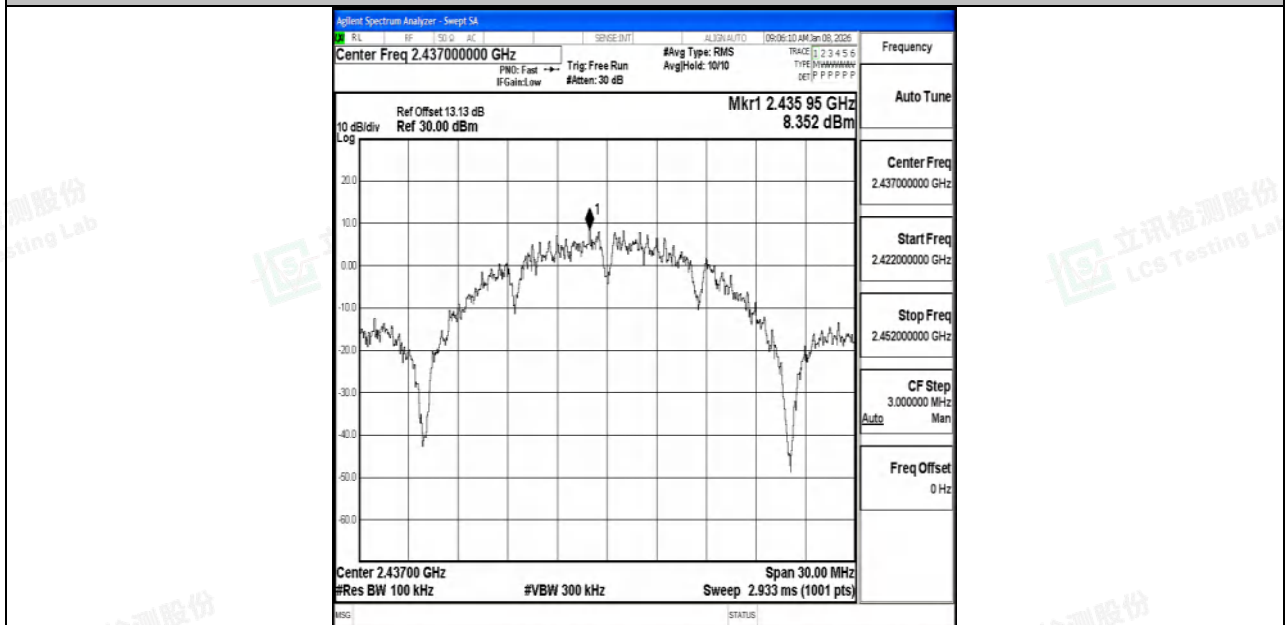
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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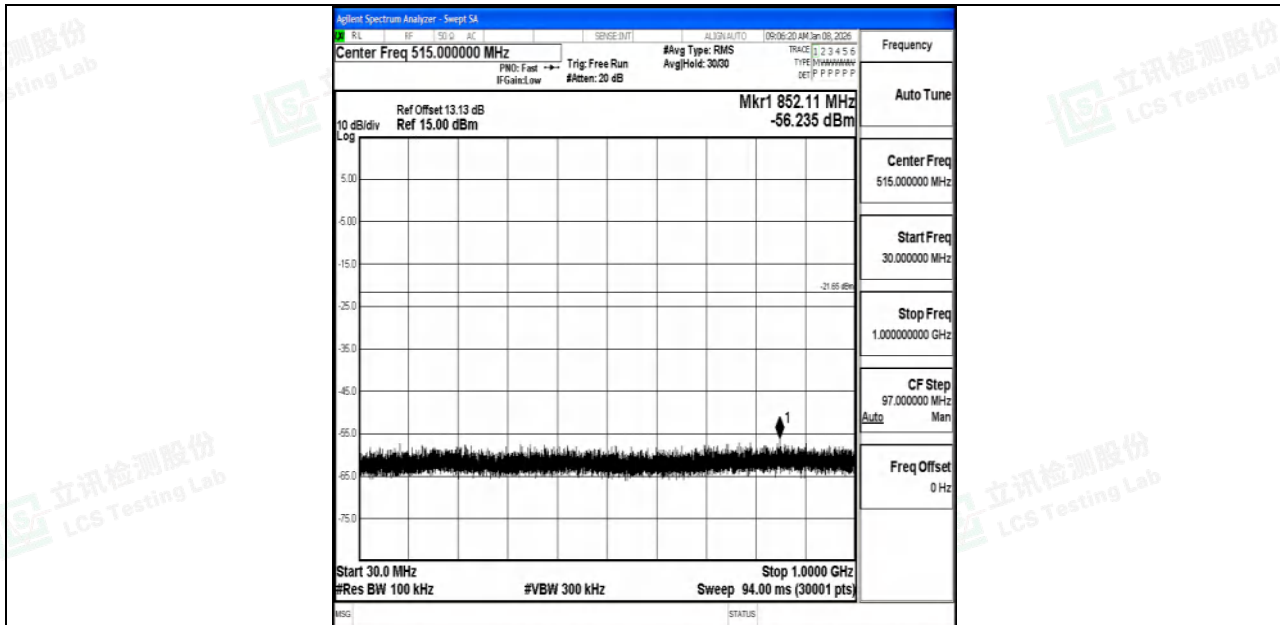


11B-Ant2-2412-1000~26500-PASS

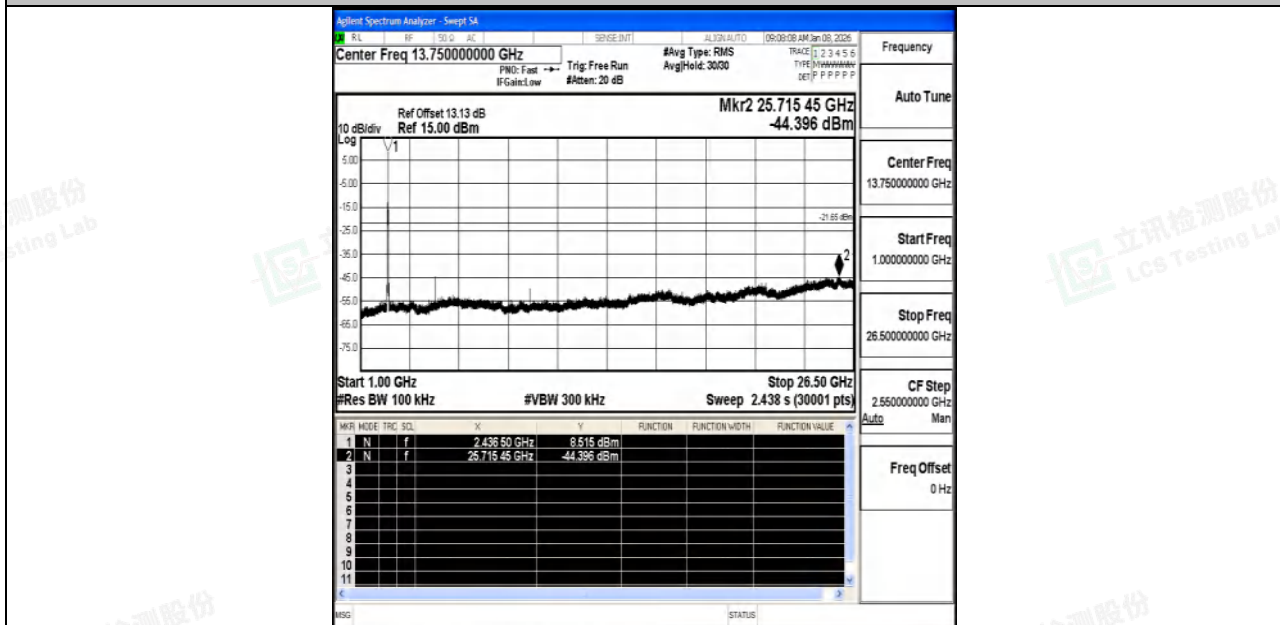


11B-Ant2-2437-0~Reference-PASS





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



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

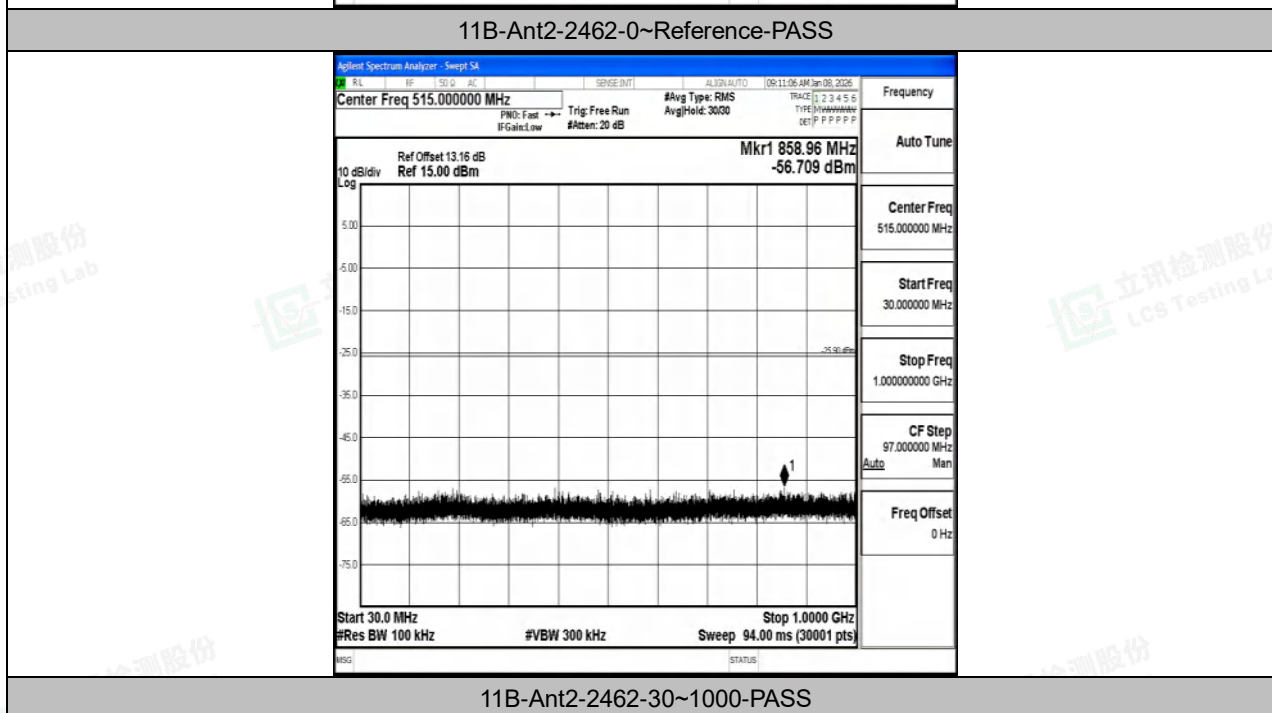
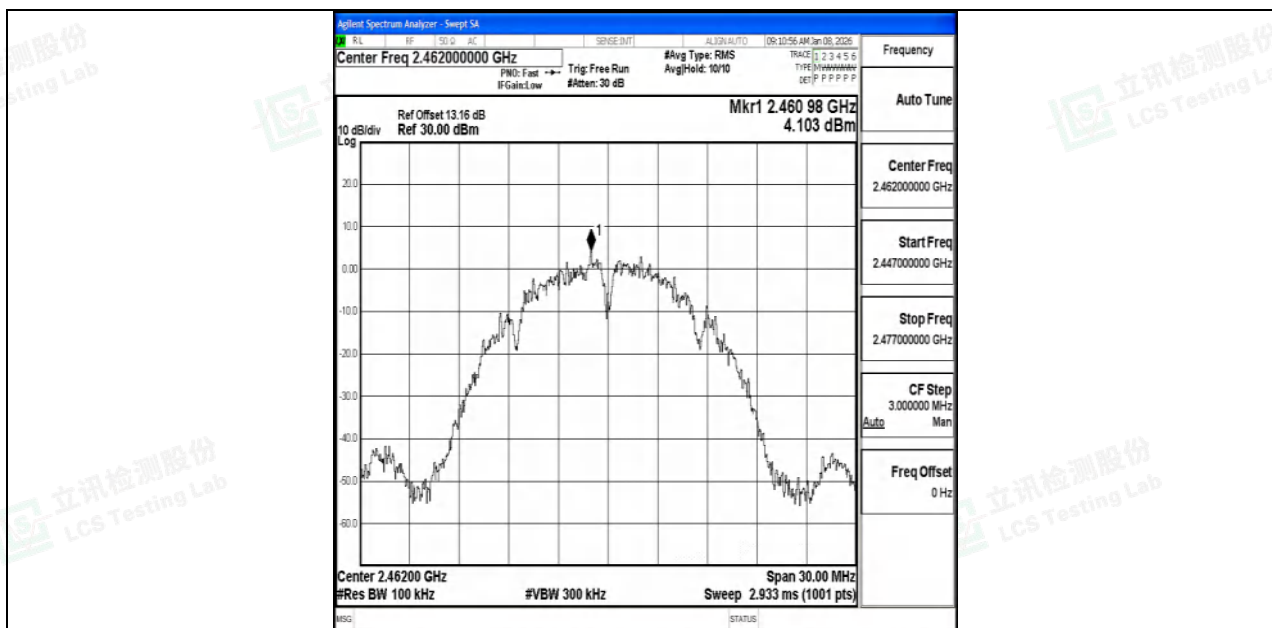


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Scan code to check authenticity

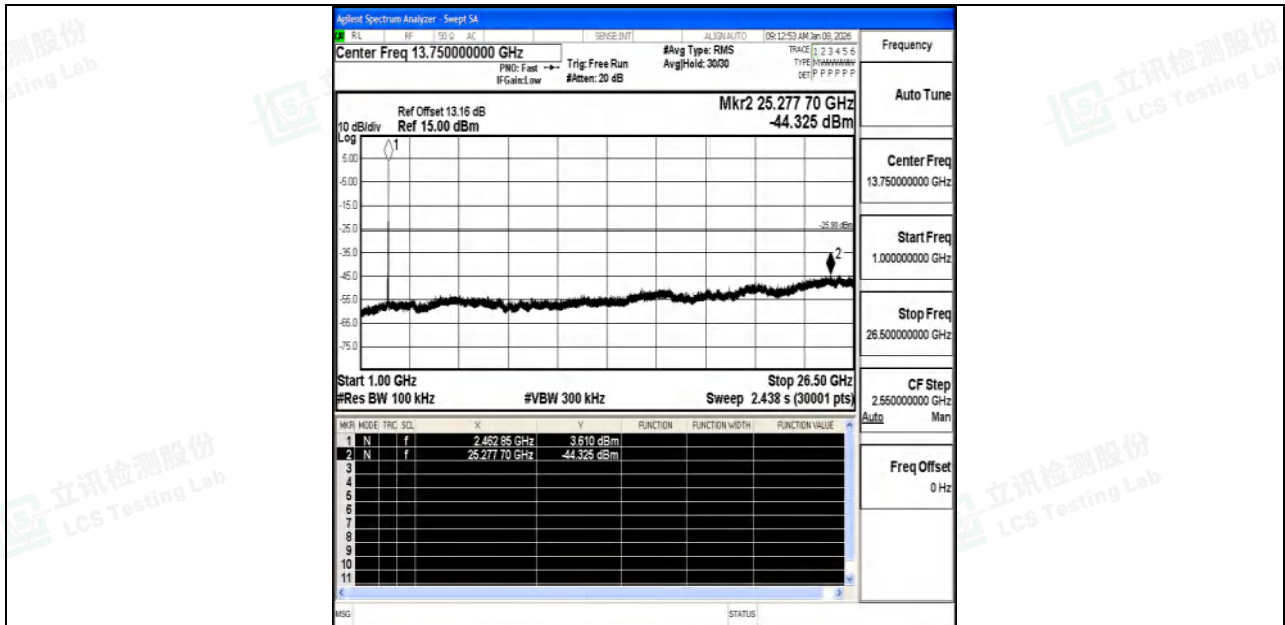


Shenzhen LCS Compliance Testing Laboratory Ltd.

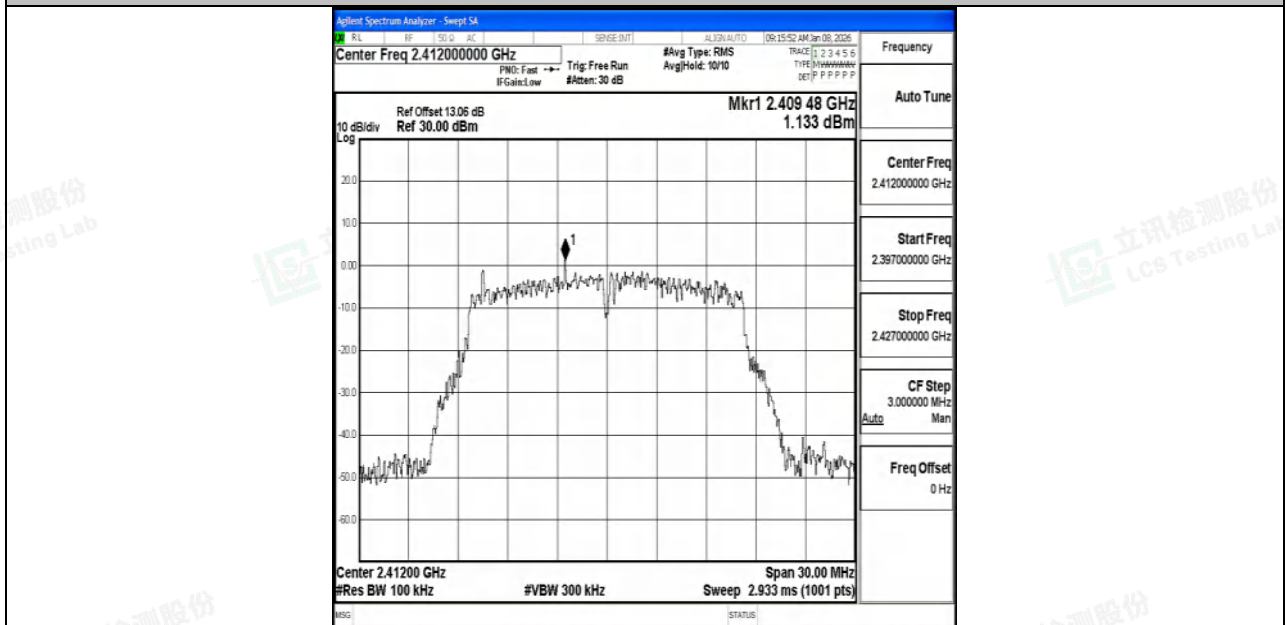
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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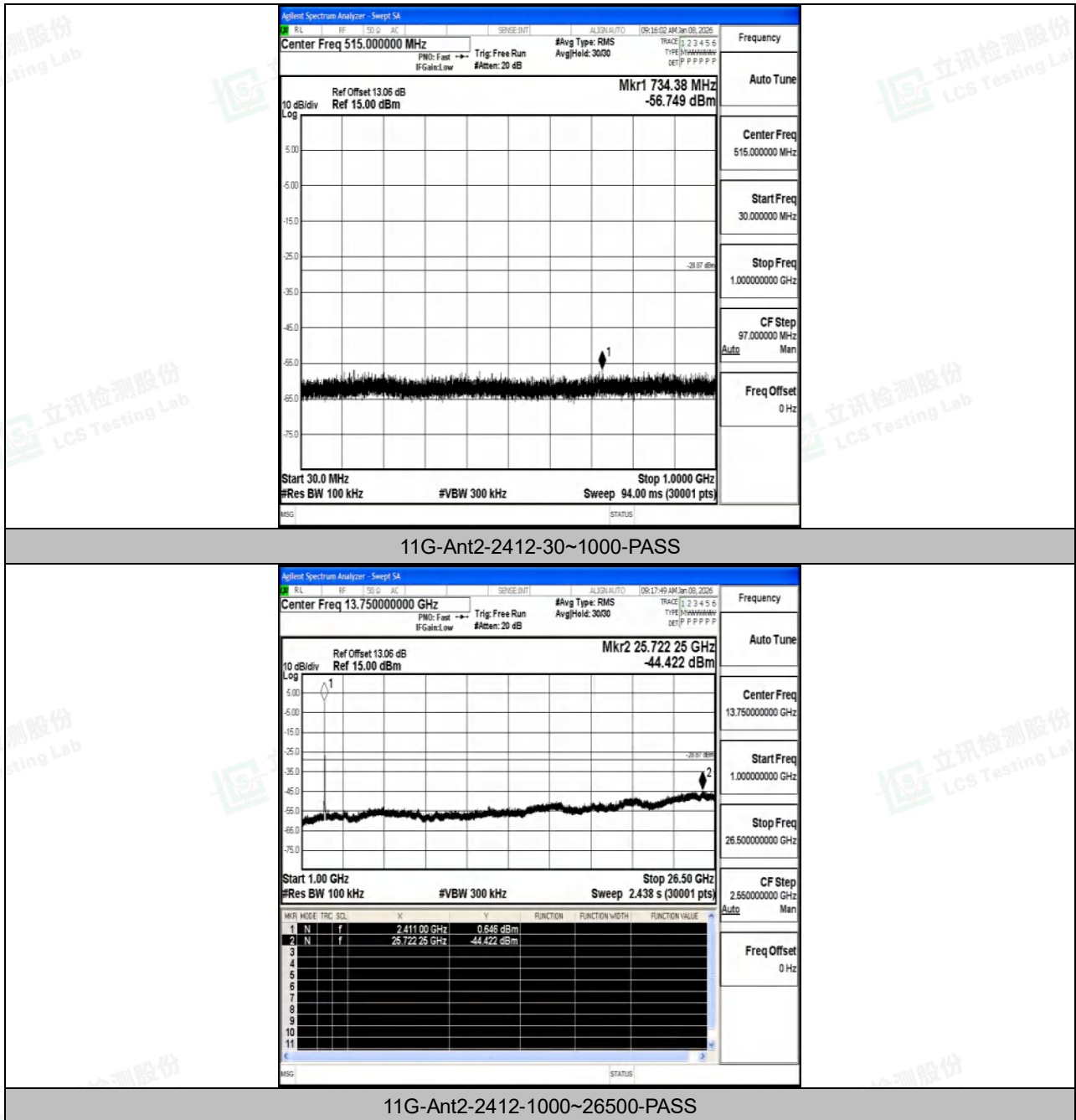


11B-Ant2-2462-1000~26500-PASS



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



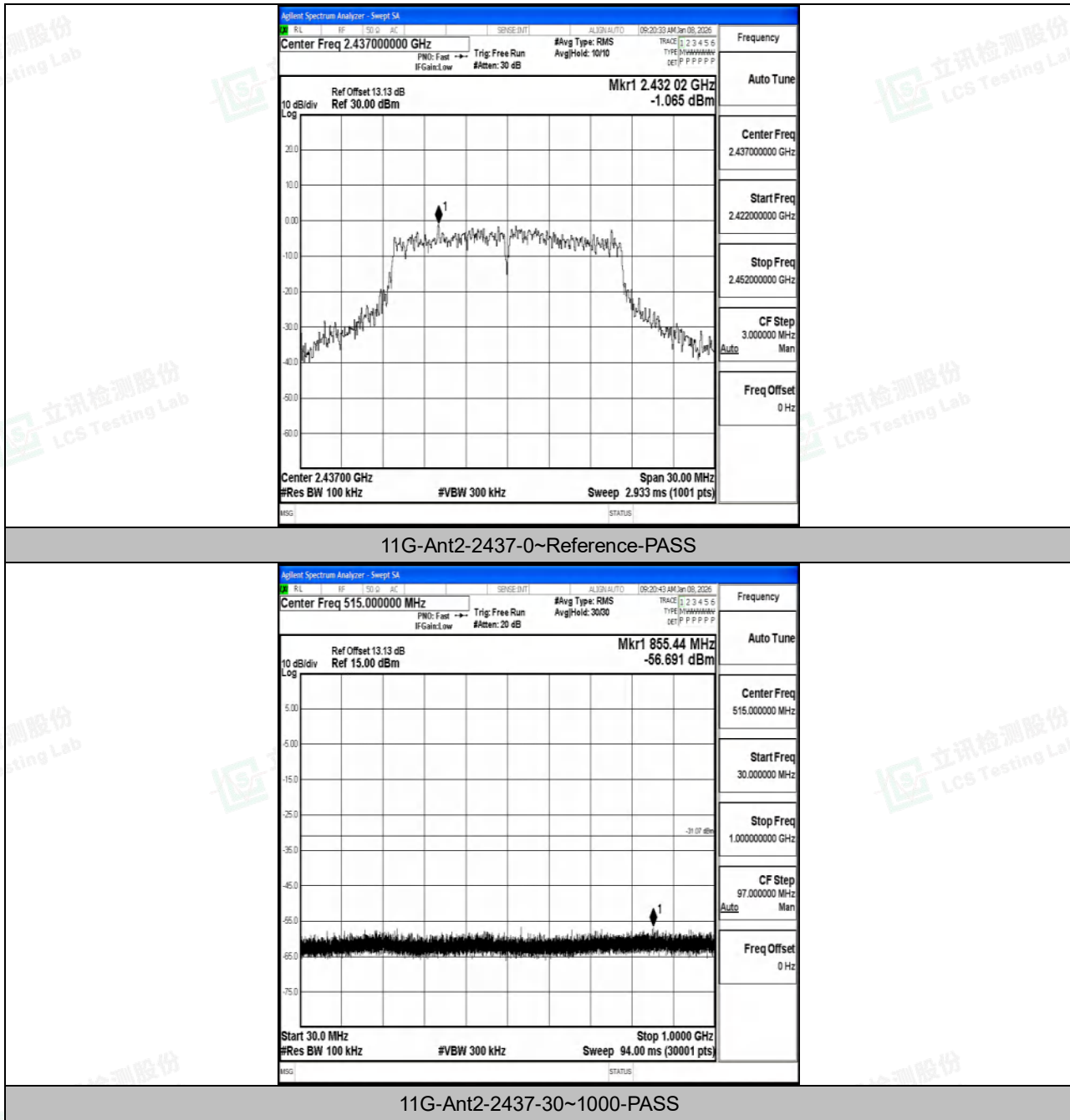


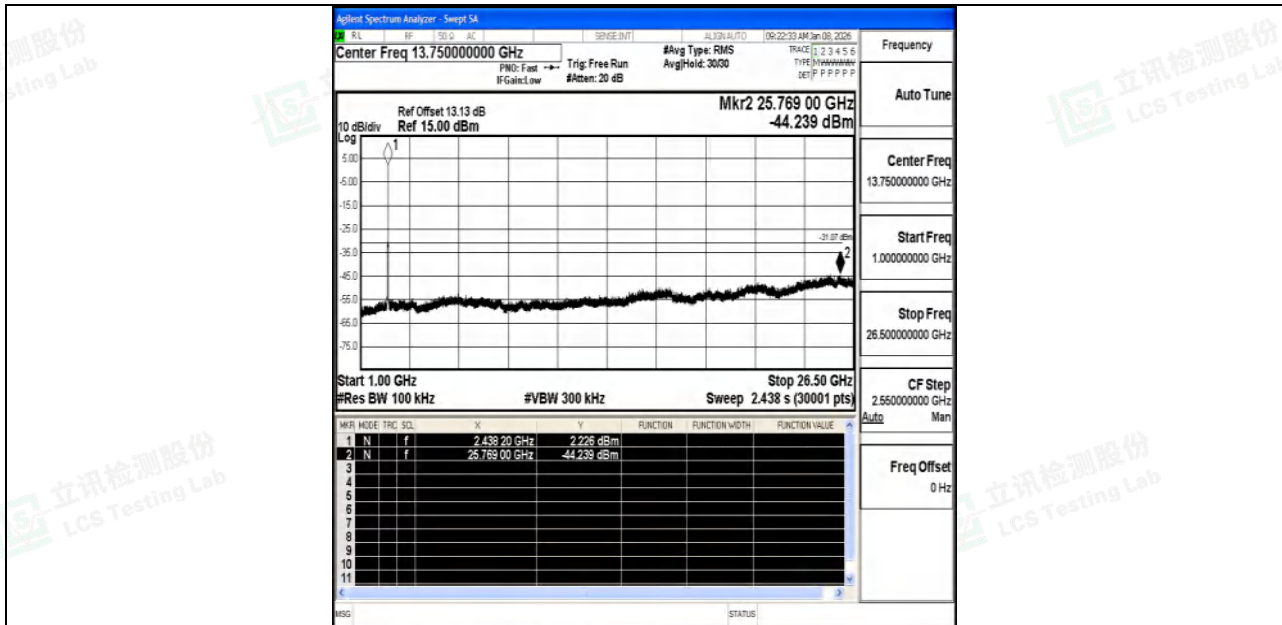
Shenzhen LCS Compliance Testing Laboratory Ltd.

Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

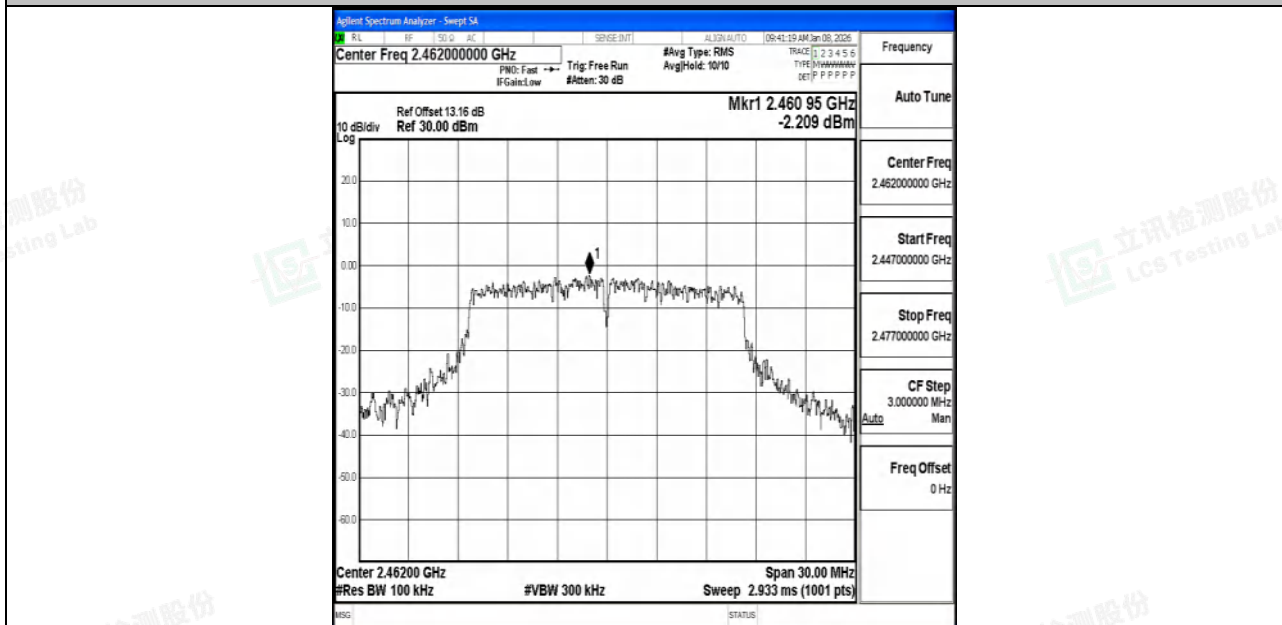
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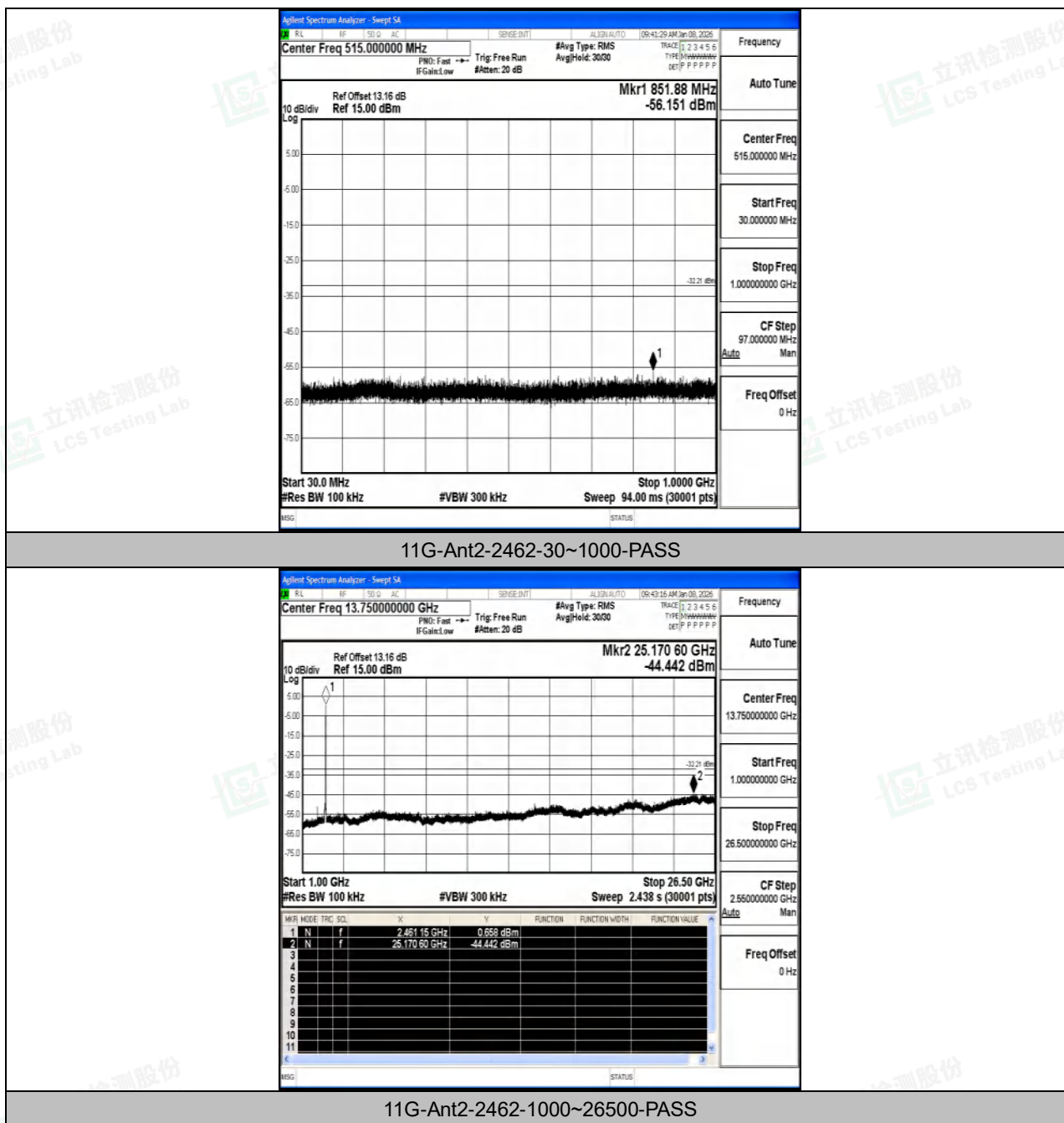


11G-Ant2-2437-1000~26500-PASS



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



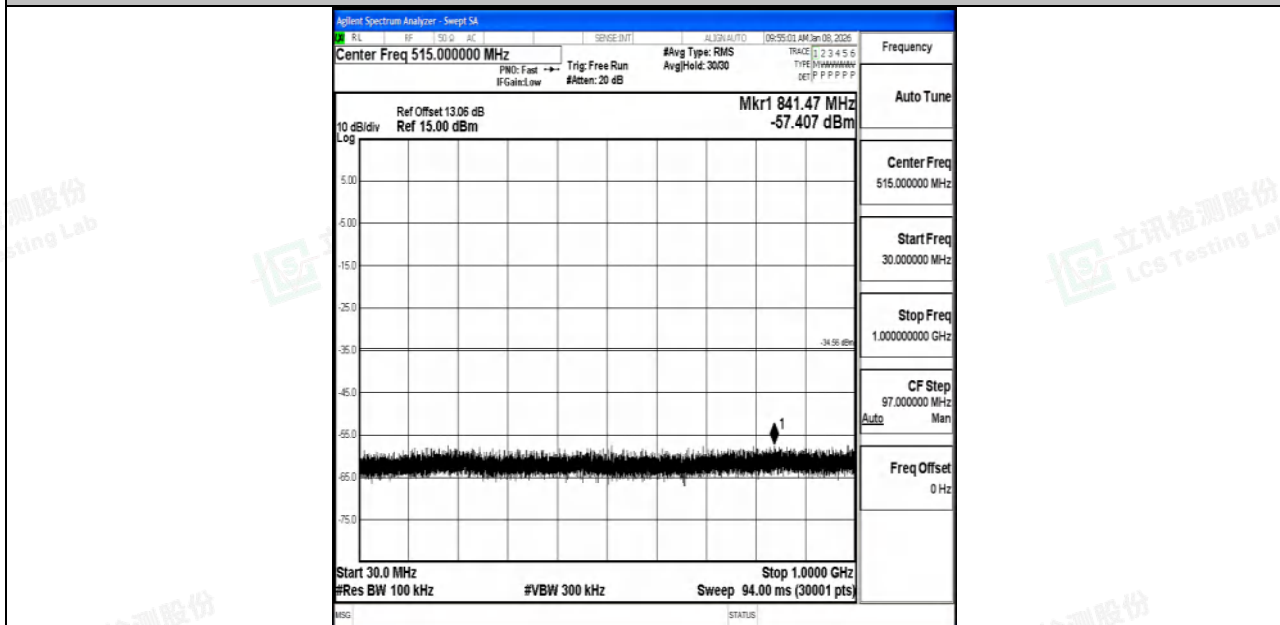
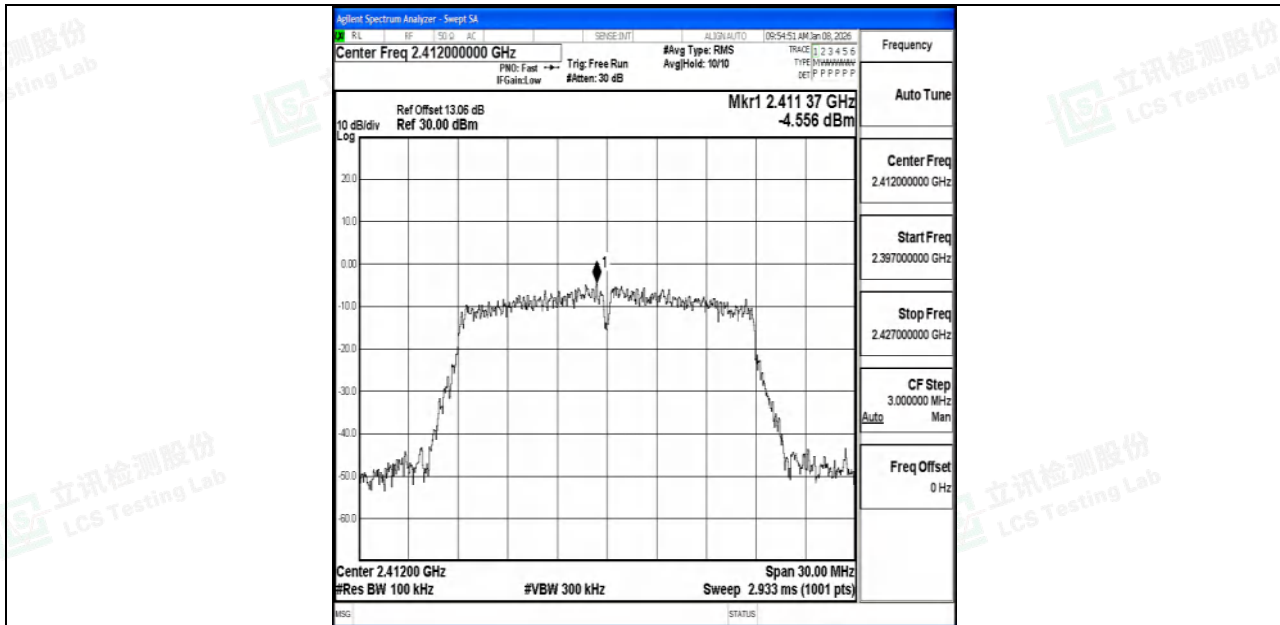


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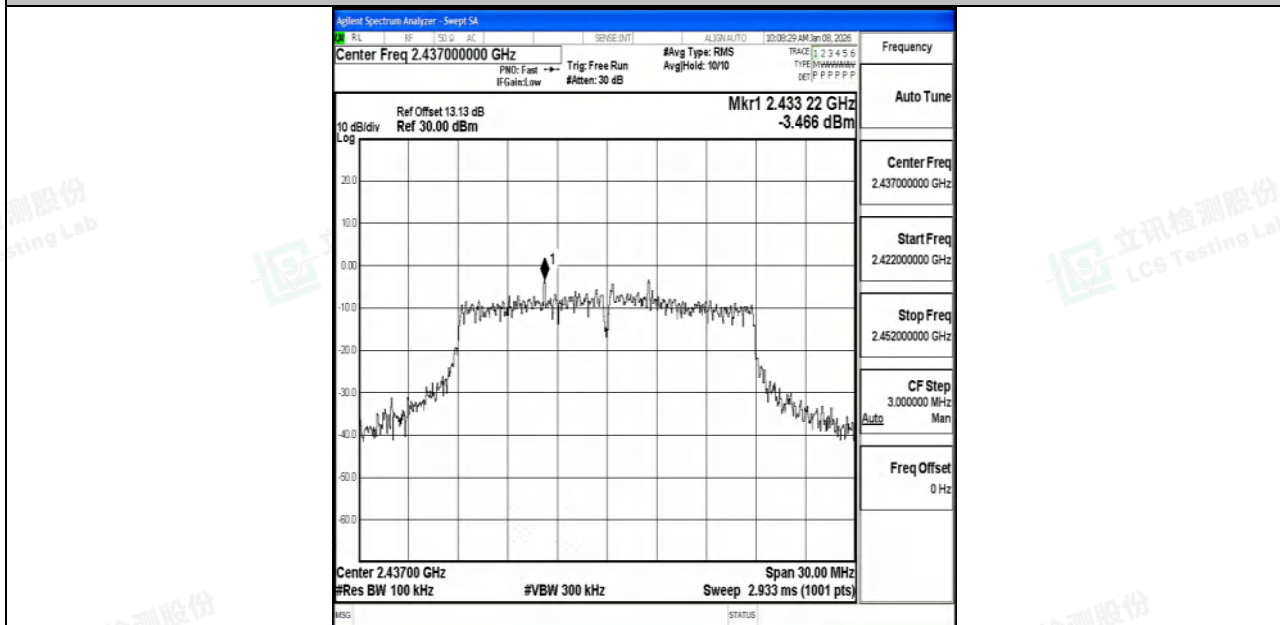
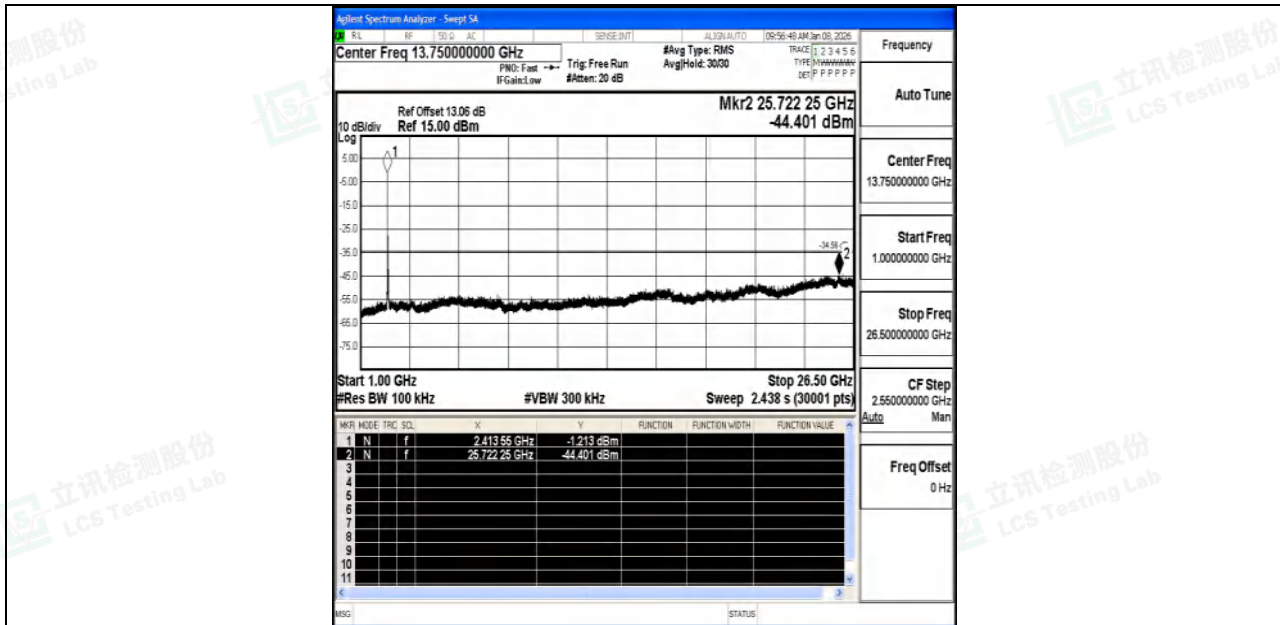


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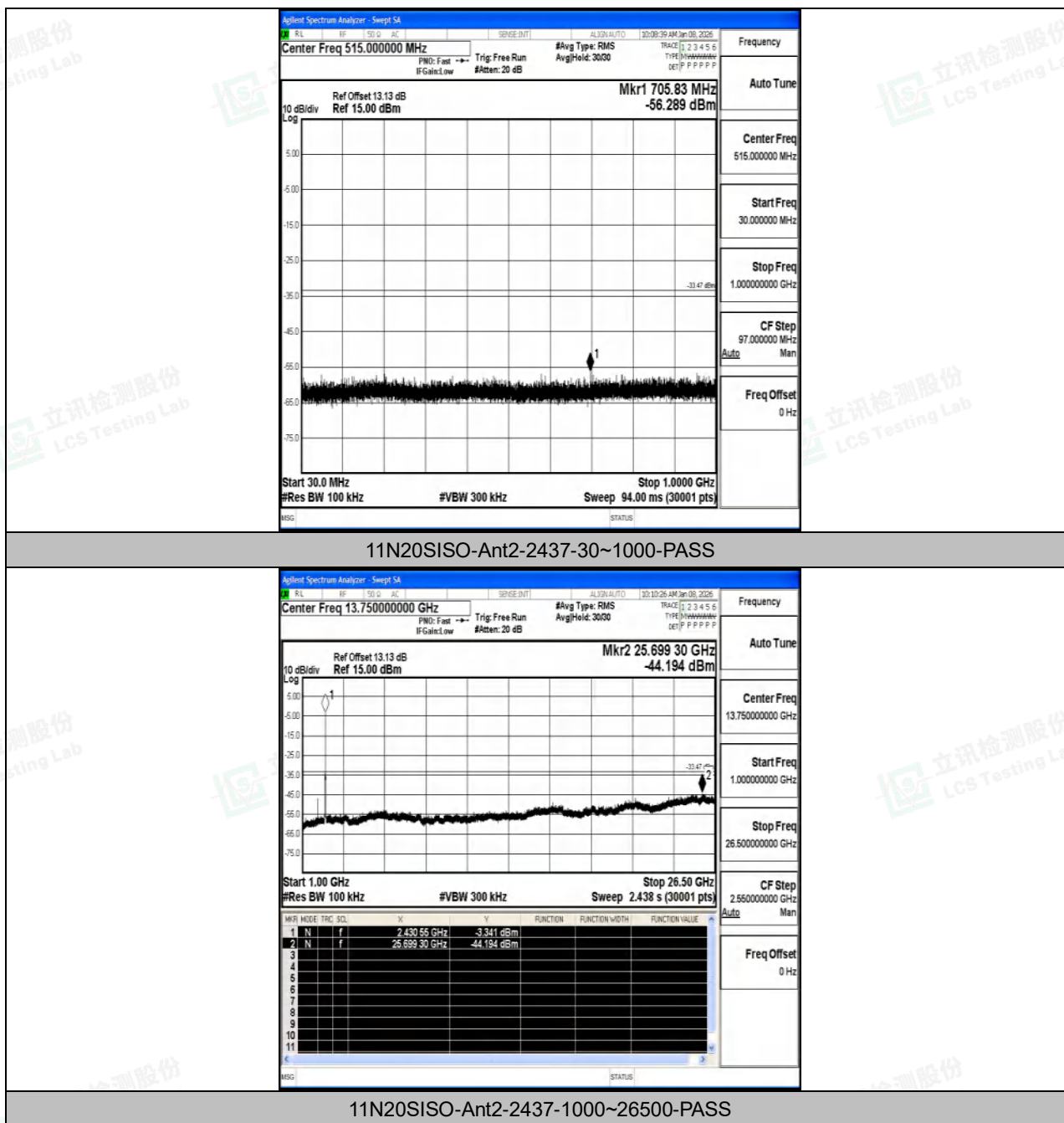


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Scan code to check authenticity

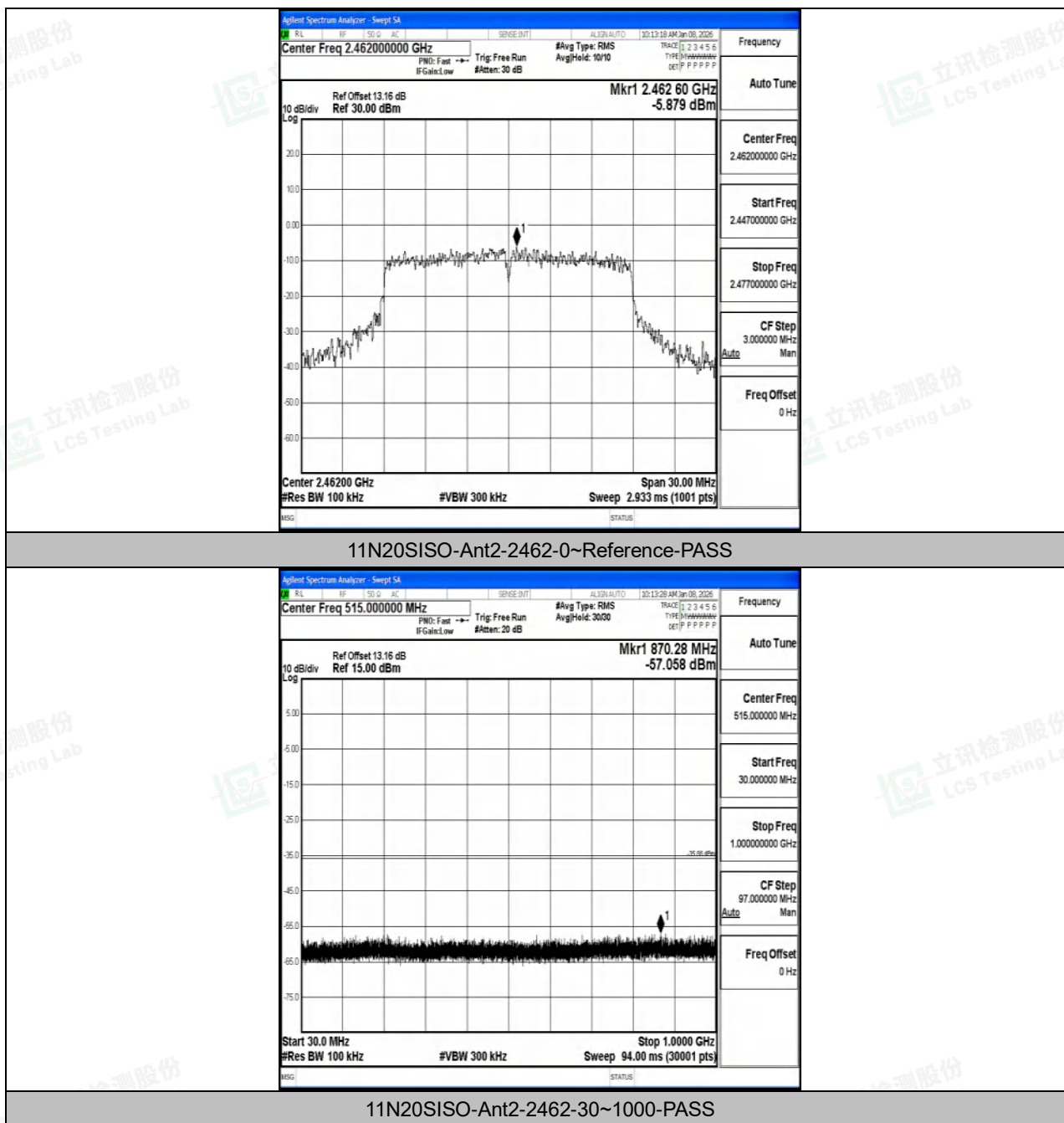


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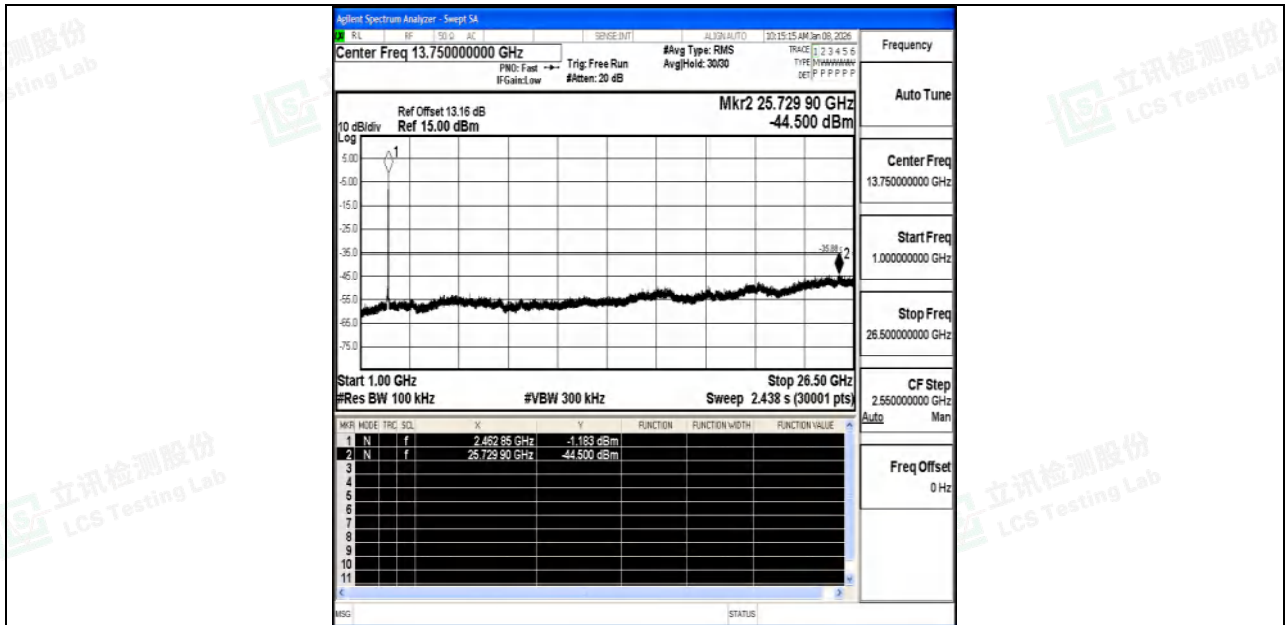


Shenzhen LCS Compliance Testing Laboratory Ltd.

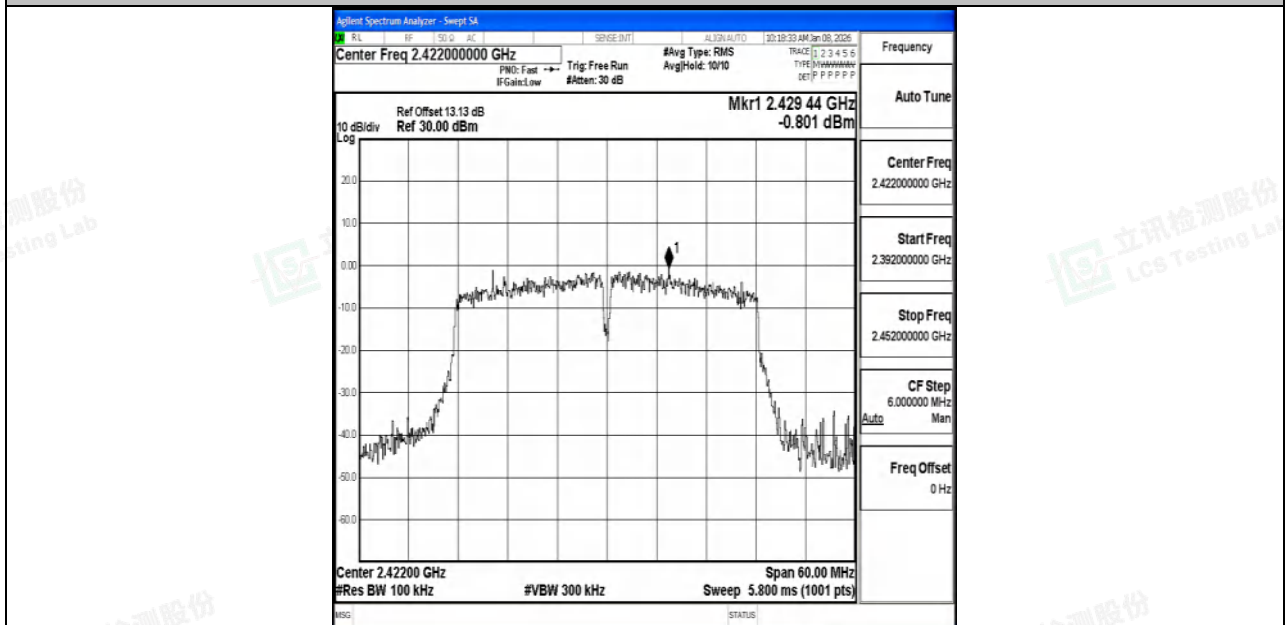
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Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

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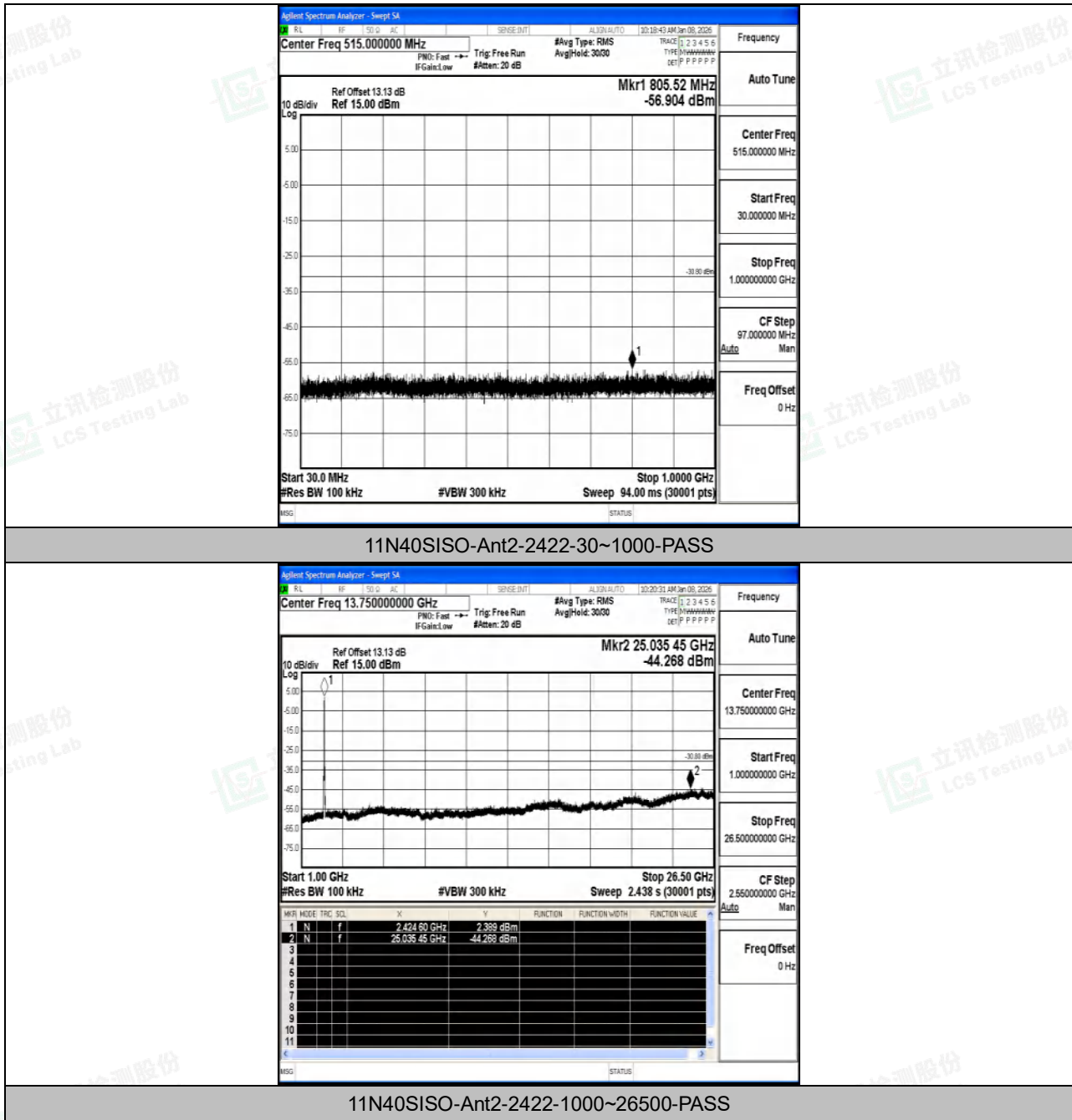


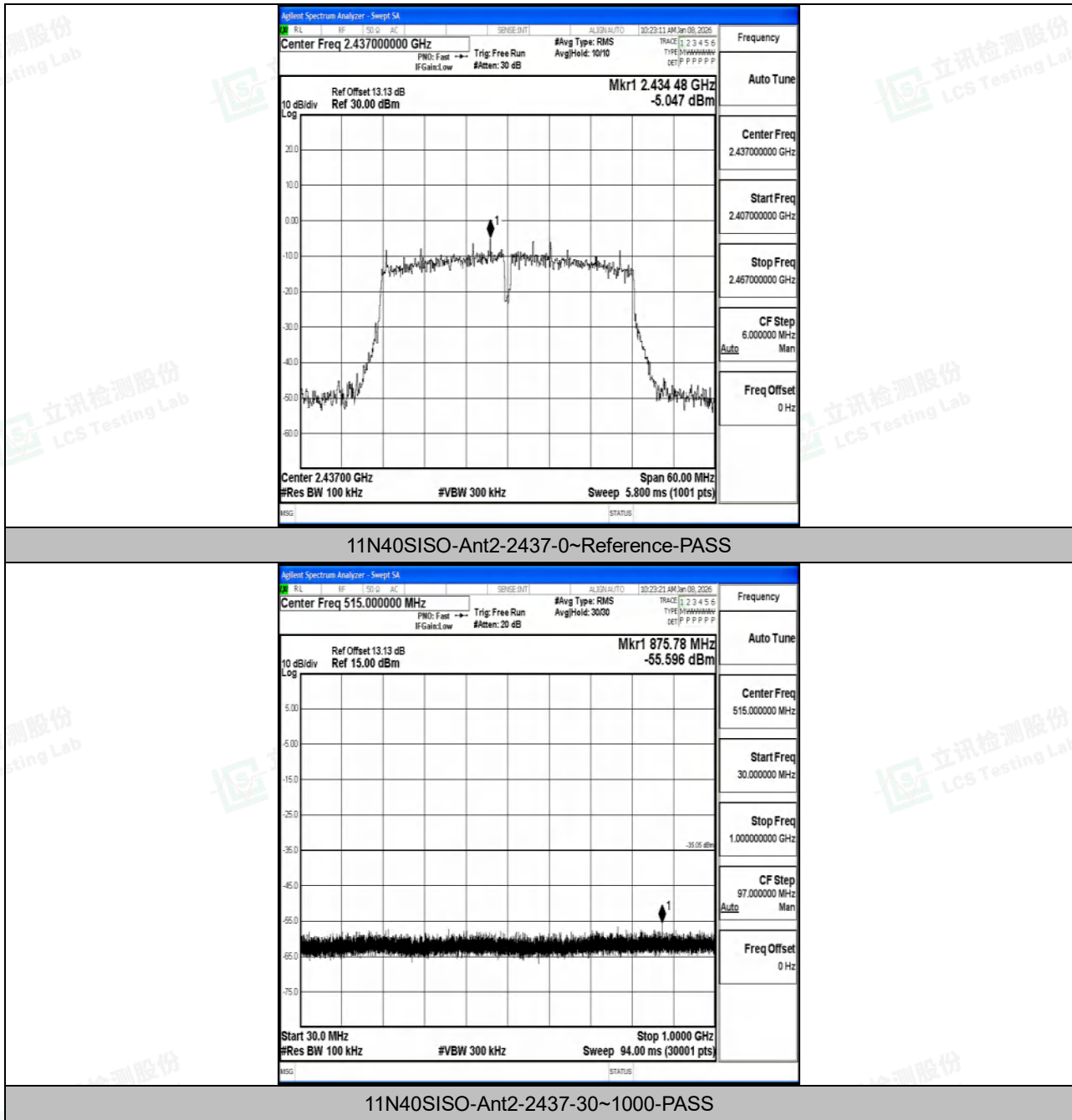
11N20SISO-Ant2-2462-1000~26500-PASS



11N40SISO-Ant2-2422-0~Reference-PASS





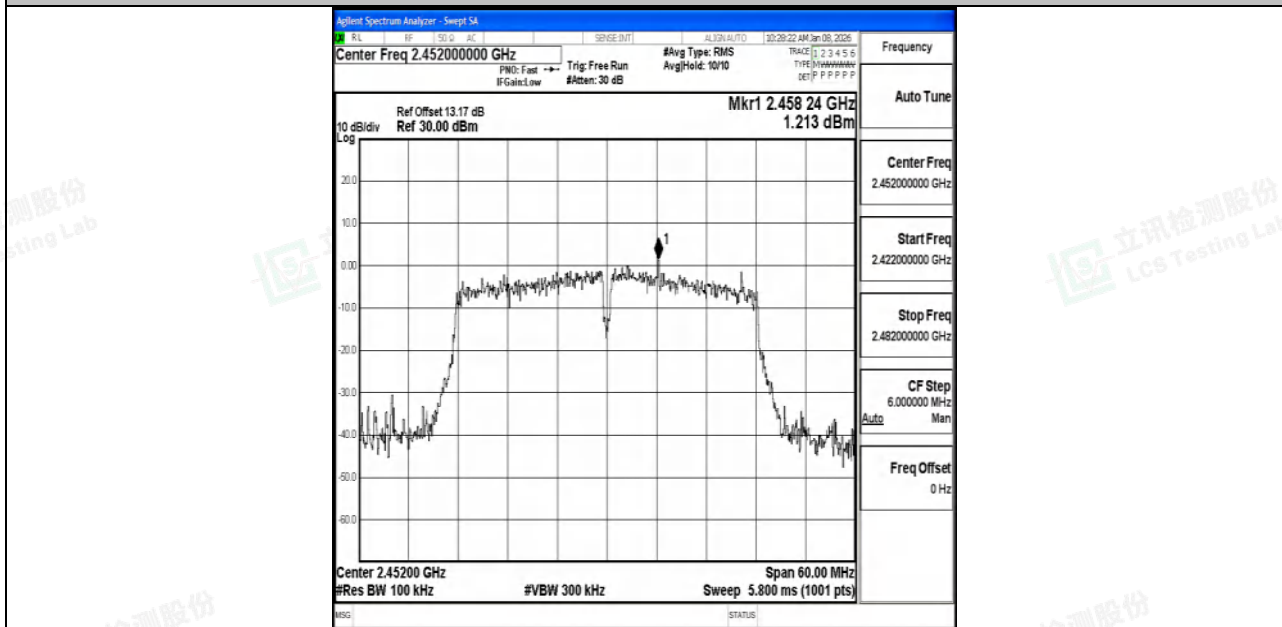
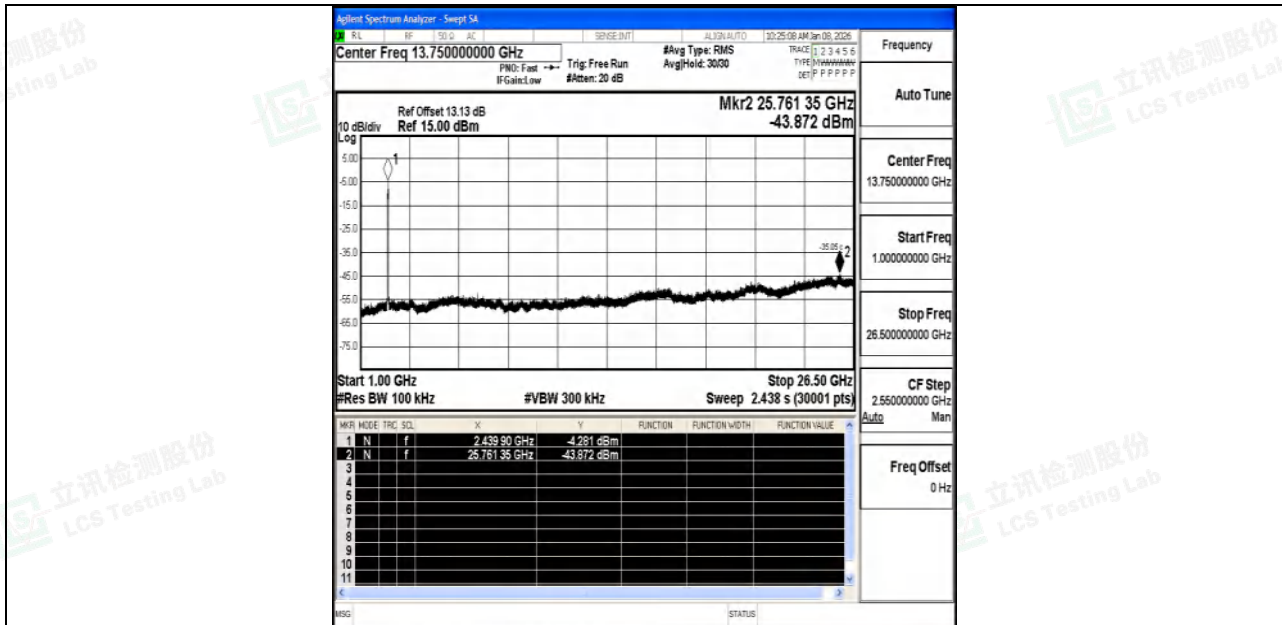


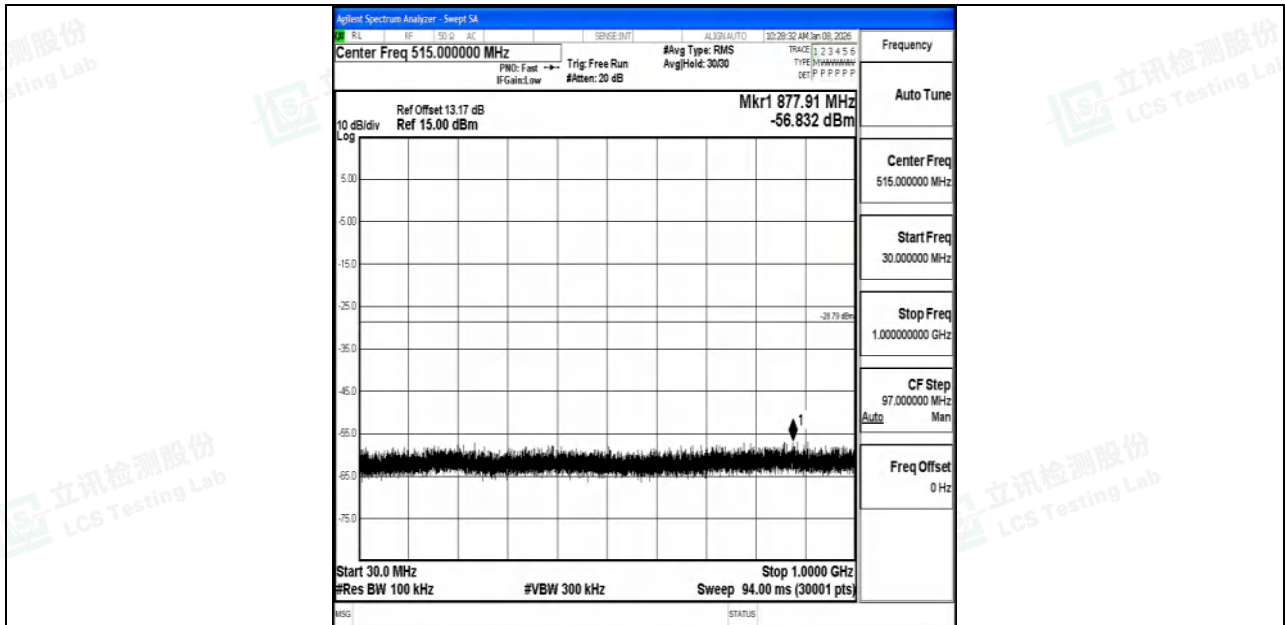
Shenzhen LCS Compliance Testing Laboratory Ltd.

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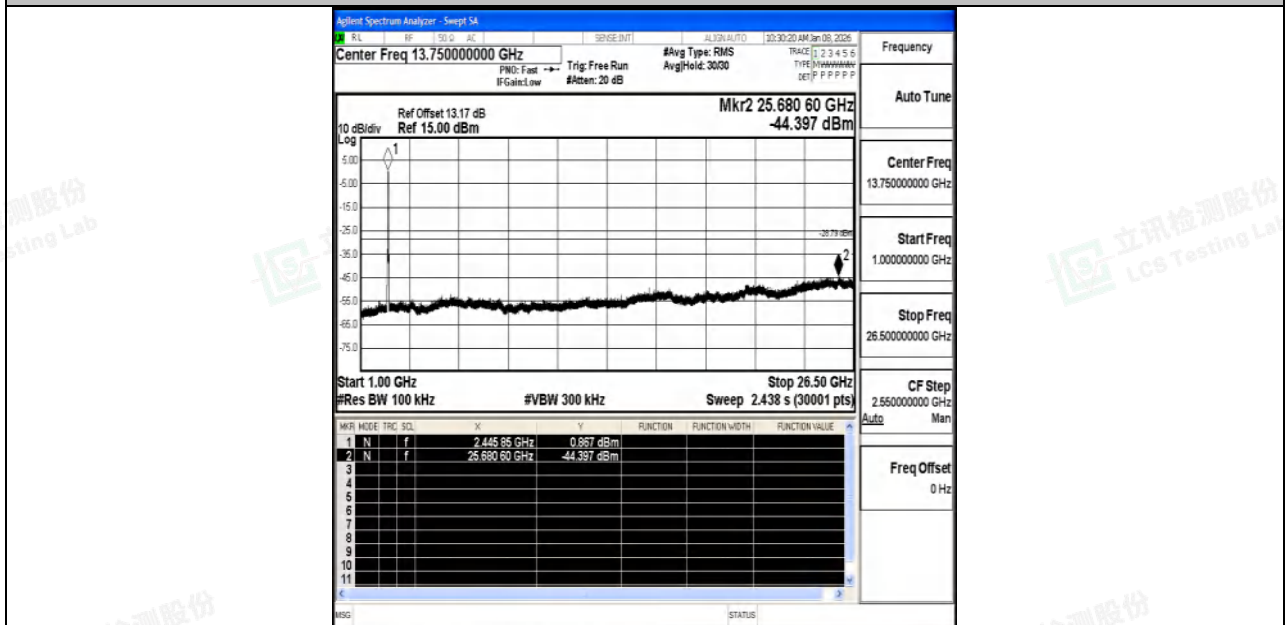
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11N40SISO-Ant2-2452-30~1000-PASS



11N40SISO-Ant2-2452-1000~26500-PASS



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C.6 Duty Cycle

Test Result

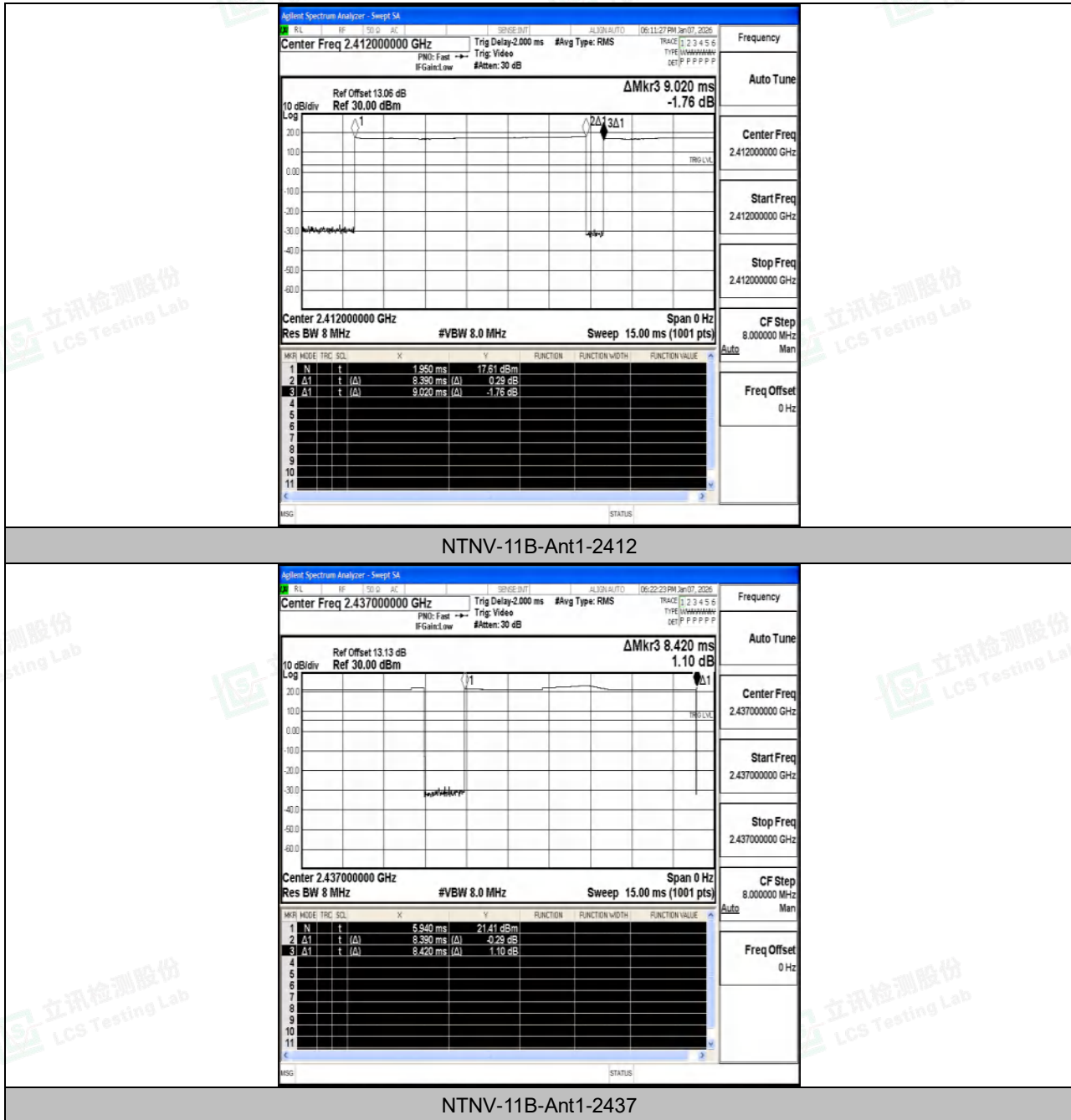
TestMode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Factor
11B	Ant1	2412	8.39	9.02	93.02	0.31
11B	Ant1	2437	8.39	8.42	99.64	0.02
11B	Ant1	2462	8.38	8.40	99.76	0.01
11G	Ant1	2412	1.39	1.43	97.20	0.12
11G	Ant1	2437	1.39	1.43	97.20	0.12
11G	Ant1	2462	1.40	1.43	97.90	0.09
11N20SISO	Ant1	2412	1.31	1.35	97.04	0.13
11N20SISO	Ant1	2437	1.31	1.35	97.04	0.13
11N20SISO	Ant1	2462	1.31	1.35	97.04	0.13
11N40SISO	Ant1	2422	0.65	0.69	94.20	0.26
11N40SISO	Ant1	2437	0.65	0.68	95.59	0.20
11N40SISO	Ant1	2452	0.65	0.69	94.20	0.26

Note :offset=System attenuation +cabel loss





Test Graphs

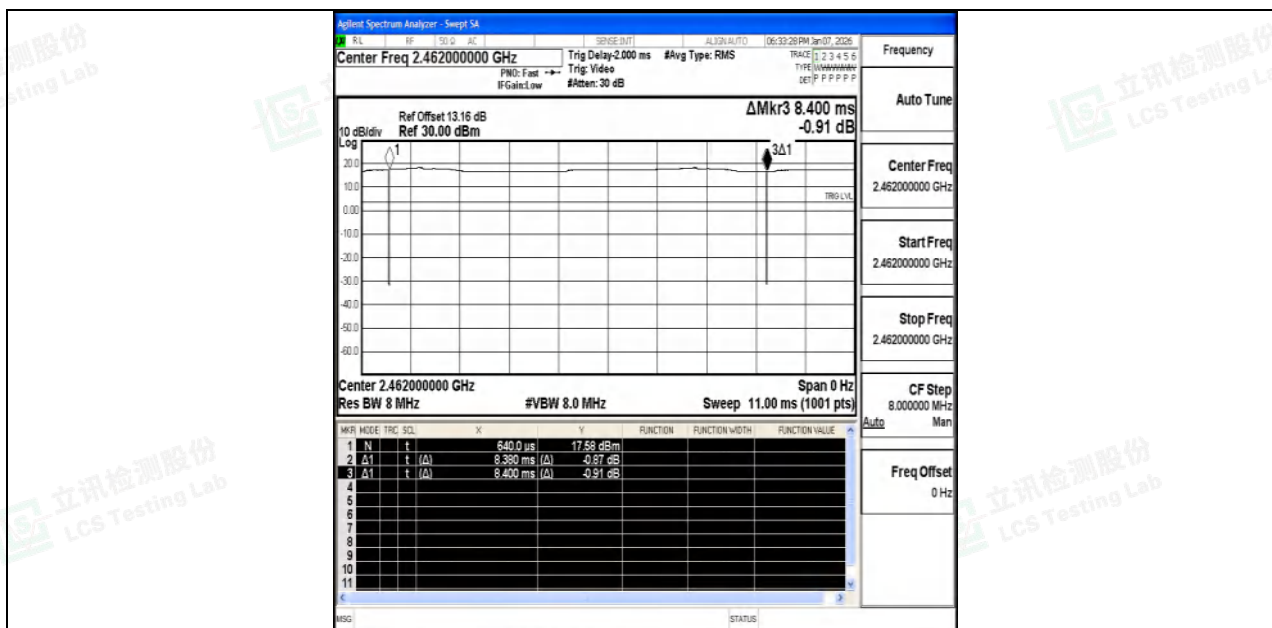


Shenzhen LCS Compliance Testing Laboratory Ltd.

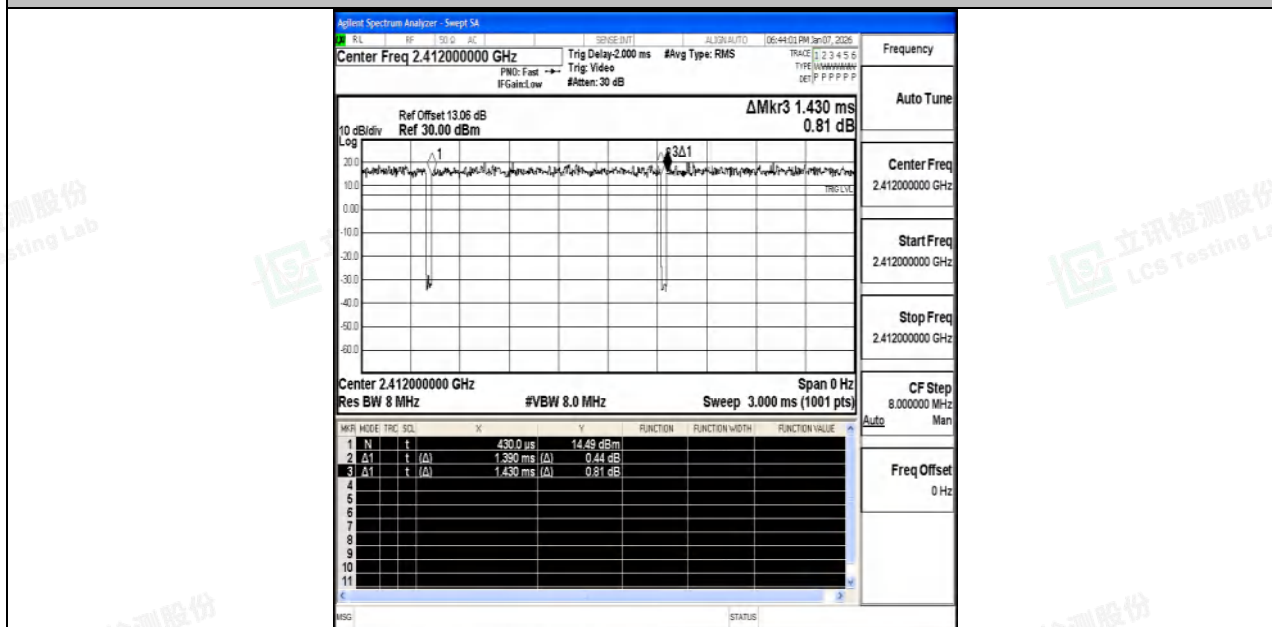
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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NTNV-11B-Ant1-2462



NTNV-11G-Ant1-2412

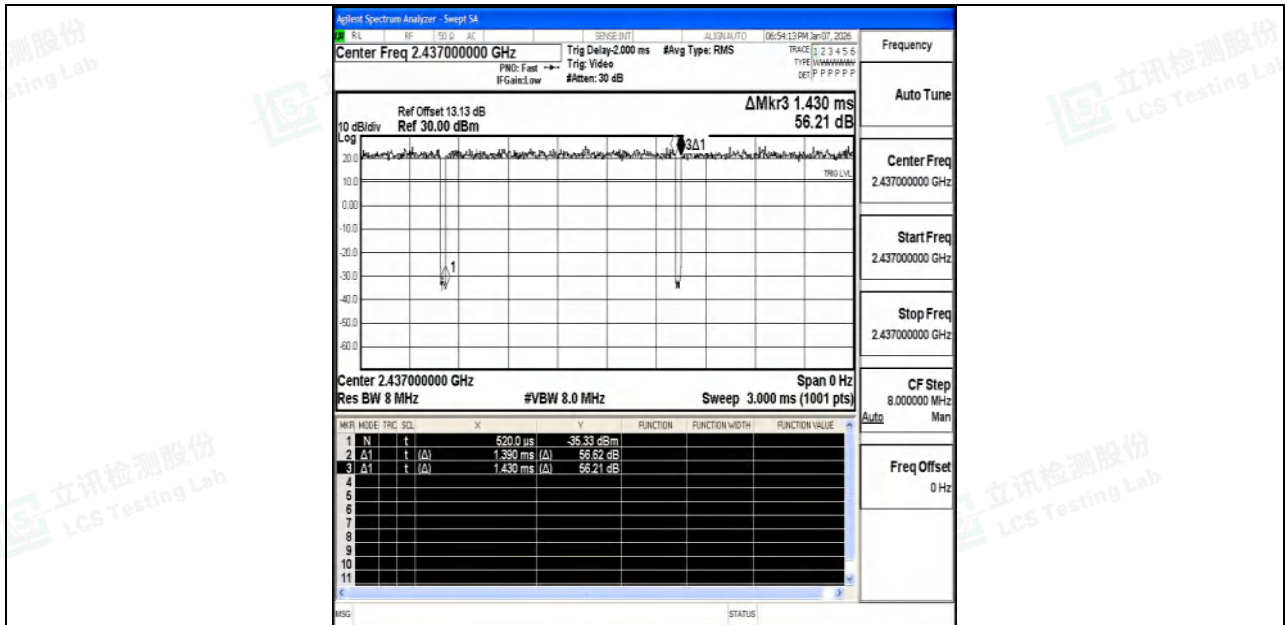


Shenzhen LCS Compliance Testing Laboratory Ltd.

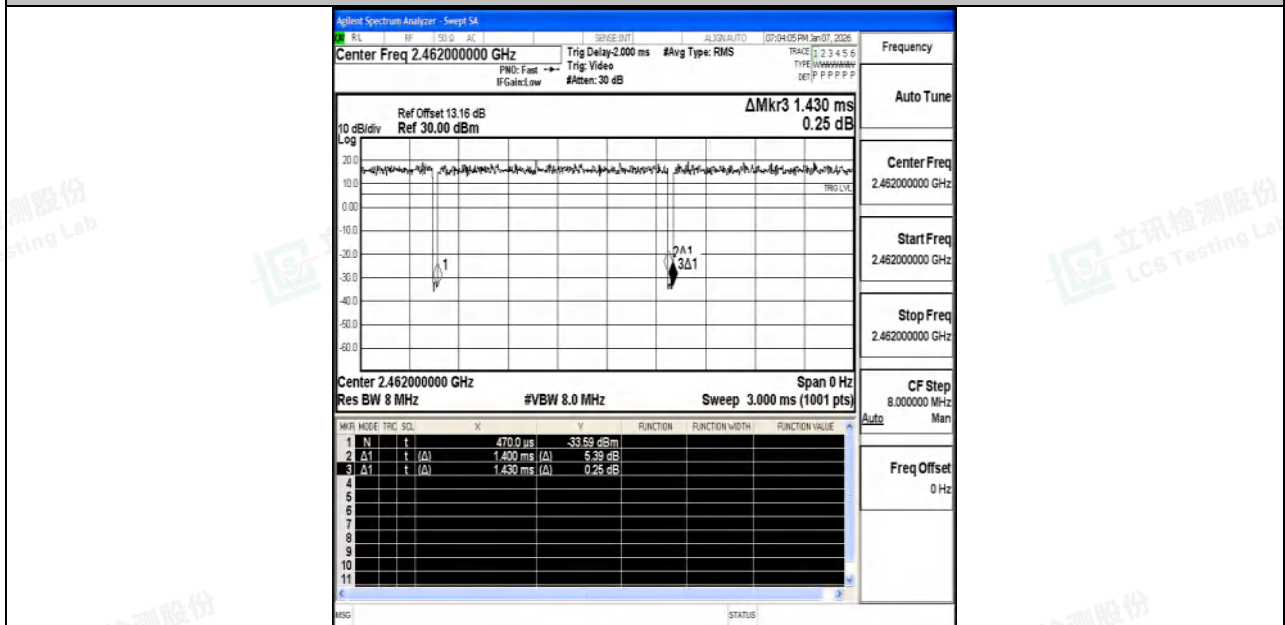
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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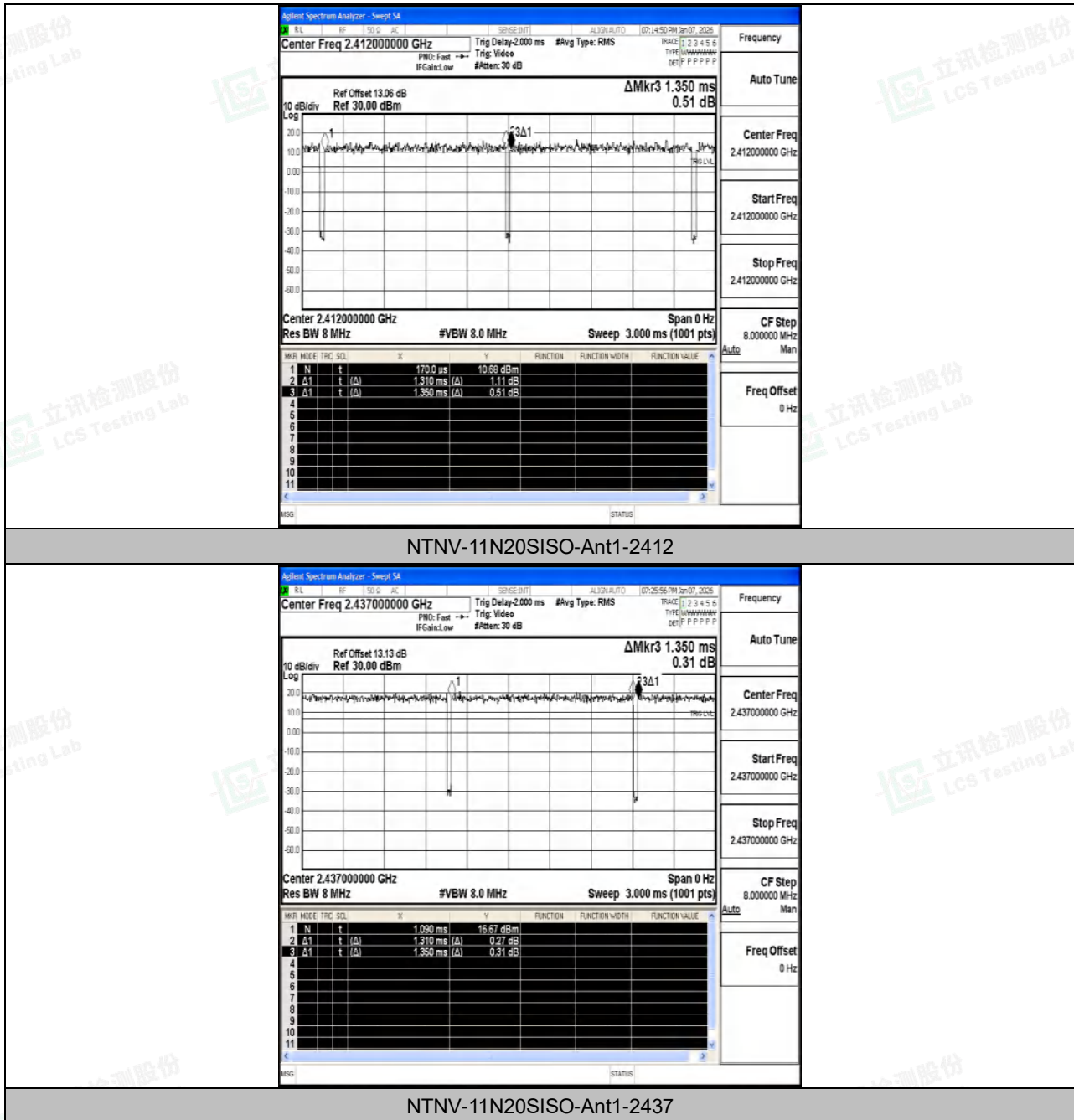


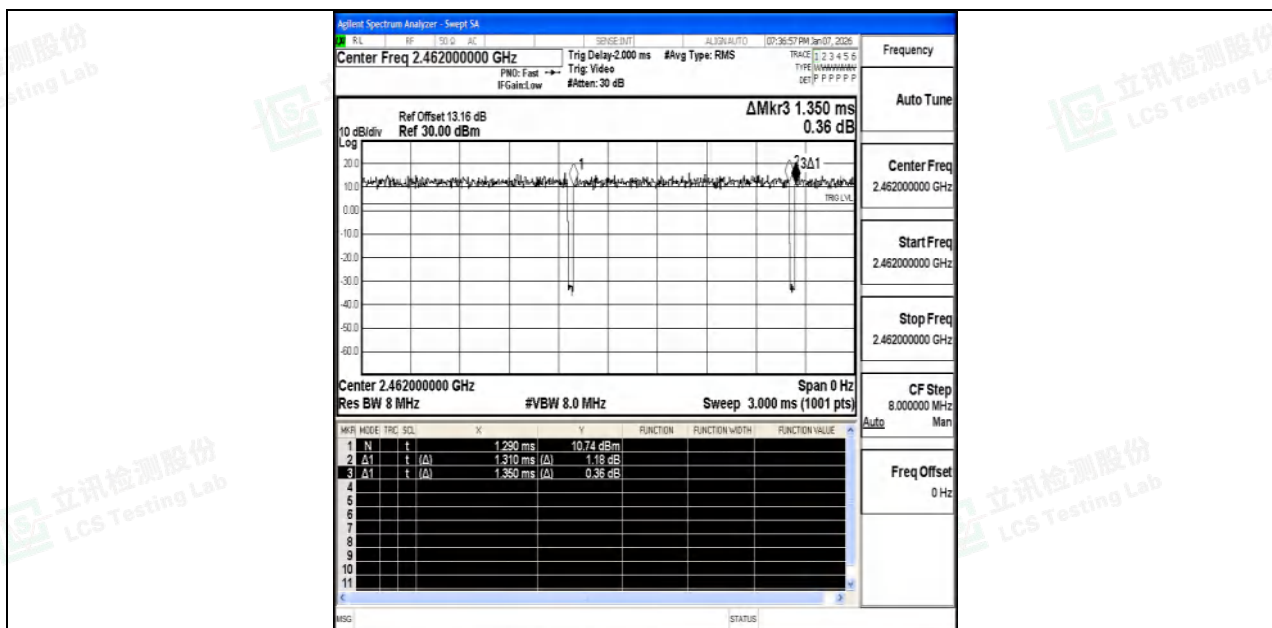
NTNV-11G-Ant1-2437



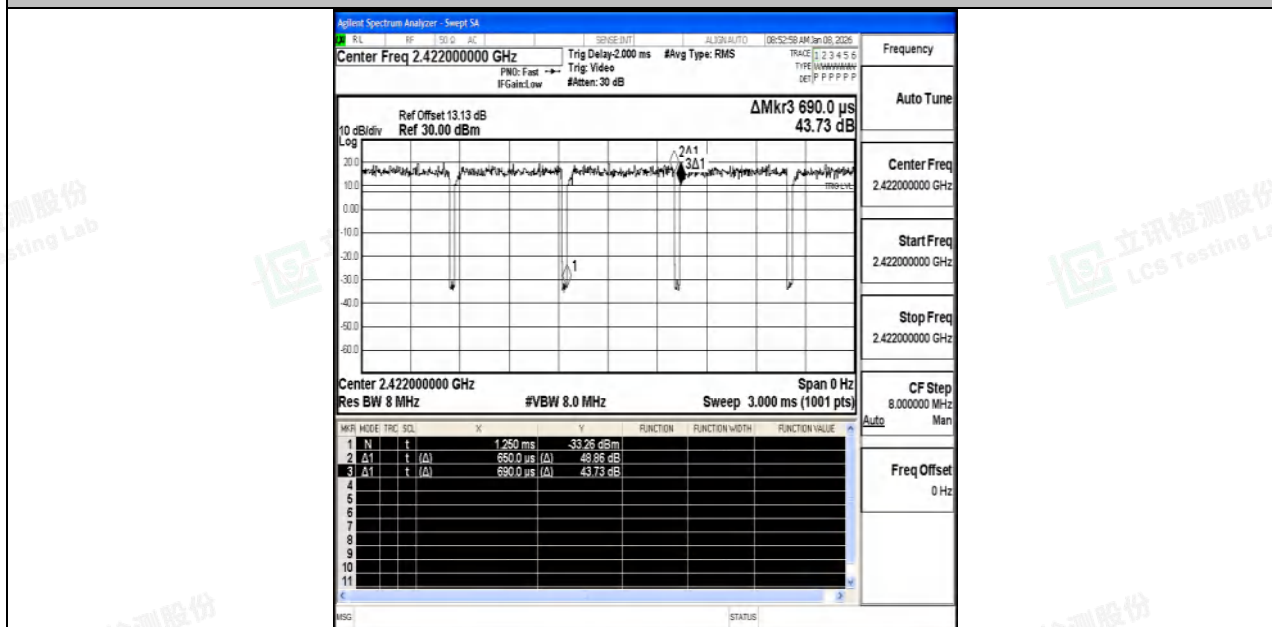
NTNV-11G-Ant1-2462







NTNV-11N20SISO-Ant1-2462



NTNV-11N40SISO-Ant1-2422

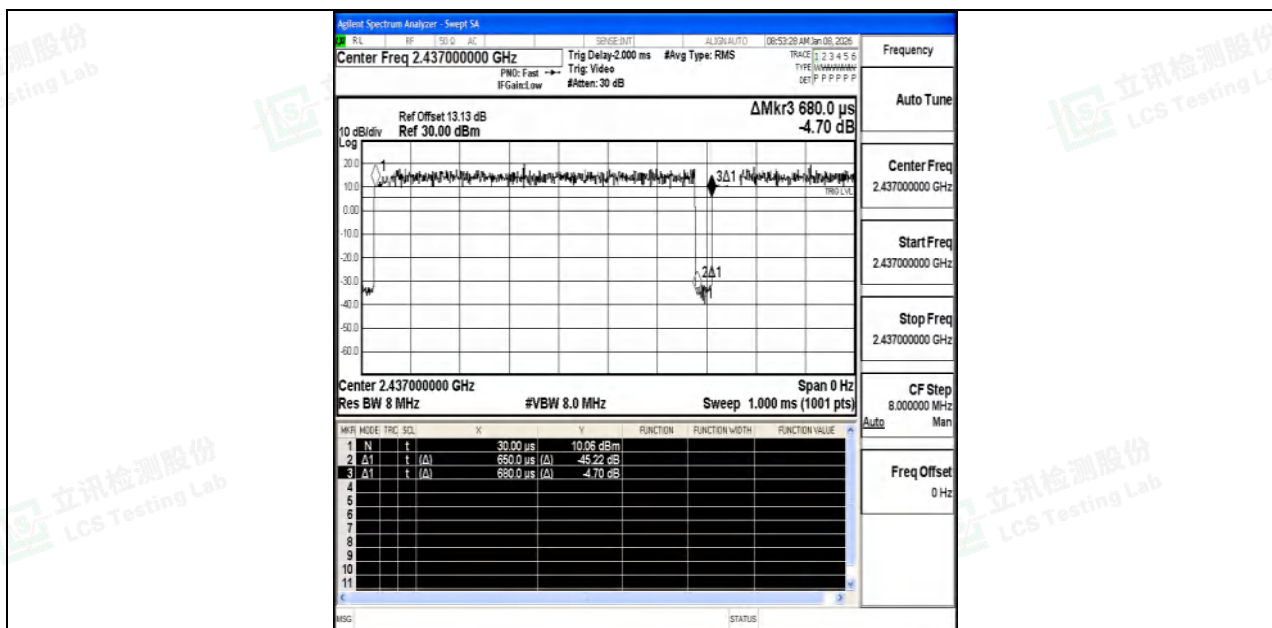


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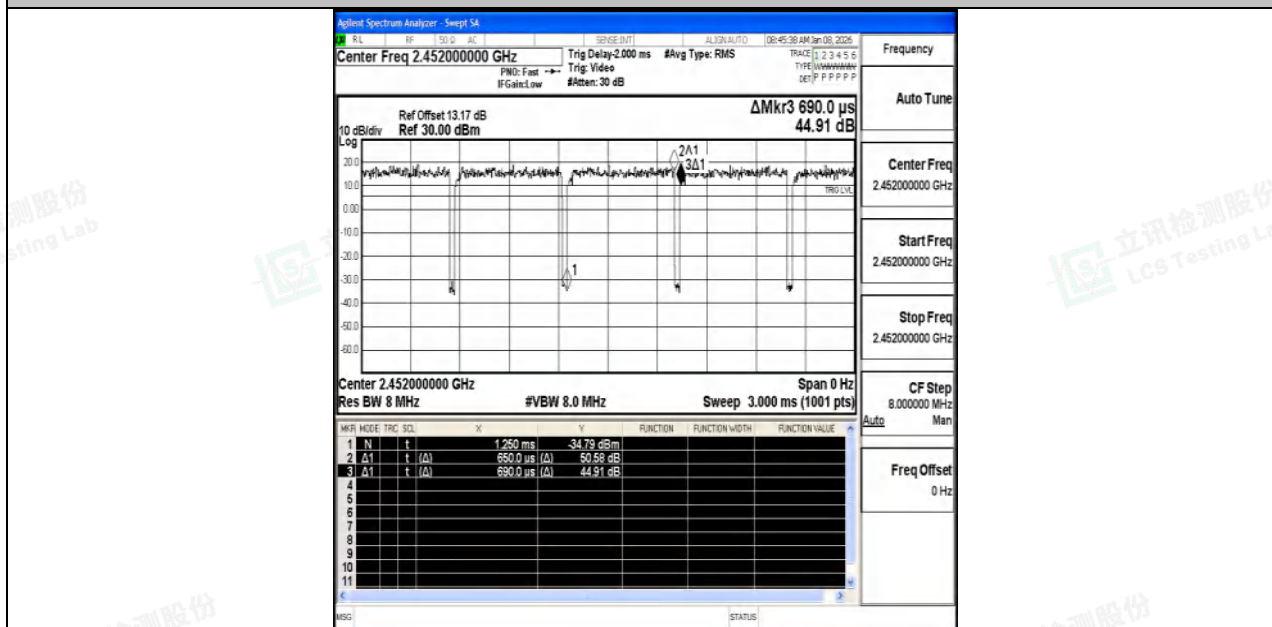
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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NTNV-11N40SISO-Ant1-2437



NTNV-11N40SISO-Ant1-2452



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Test Result

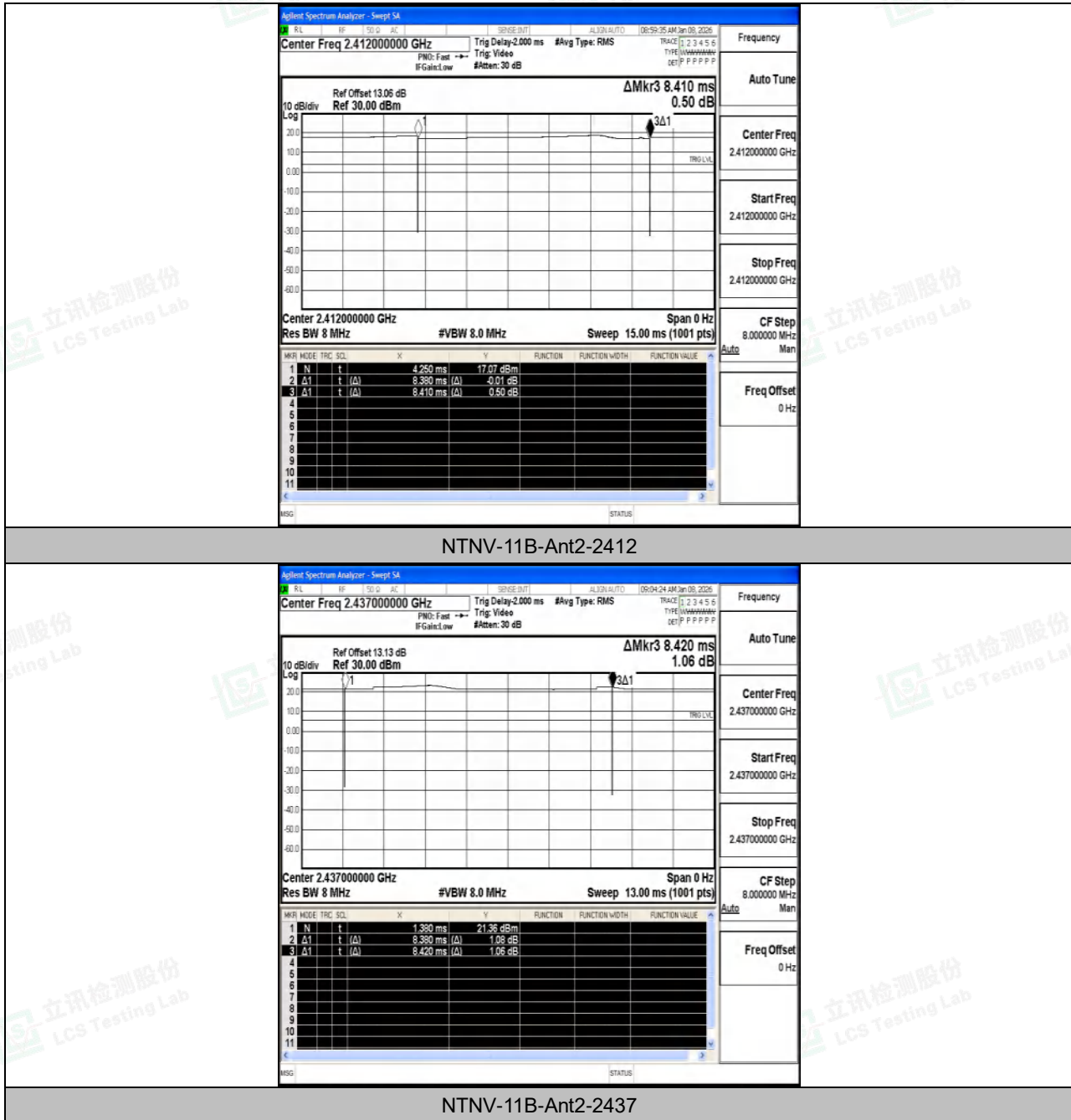
TestMode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Factor
11B	Ant2	2412	8.38	8.41	99.64	0.02
11B	Ant2	2437	8.38	8.42	99.52	0.02
11B	Ant2	2462	8.38	8.41	99.64	0.02
11G	Ant2	2412	1.39	1.43	97.20	0.12
11G	Ant2	2437	1.39	1.43	97.20	0.12
11G	Ant2	2462	1.39	1.42	97.89	0.09
11N20SISO	Ant2	2412	1.31	1.35	97.04	0.13
11N20SISO	Ant2	2437	1.31	1.35	97.04	0.13
11N20SISO	Ant2	2462	1.31	1.34	97.76	0.10
11N40SISO	Ant2	2422	0.65	0.69	94.20	0.26
11N40SISO	Ant2	2437	0.65	0.68	95.59	0.20
11N40SISO	Ant2	2452	0.65	0.68	95.59	0.20

Note :offset=System attenuation +cabal loss





Test Graphs

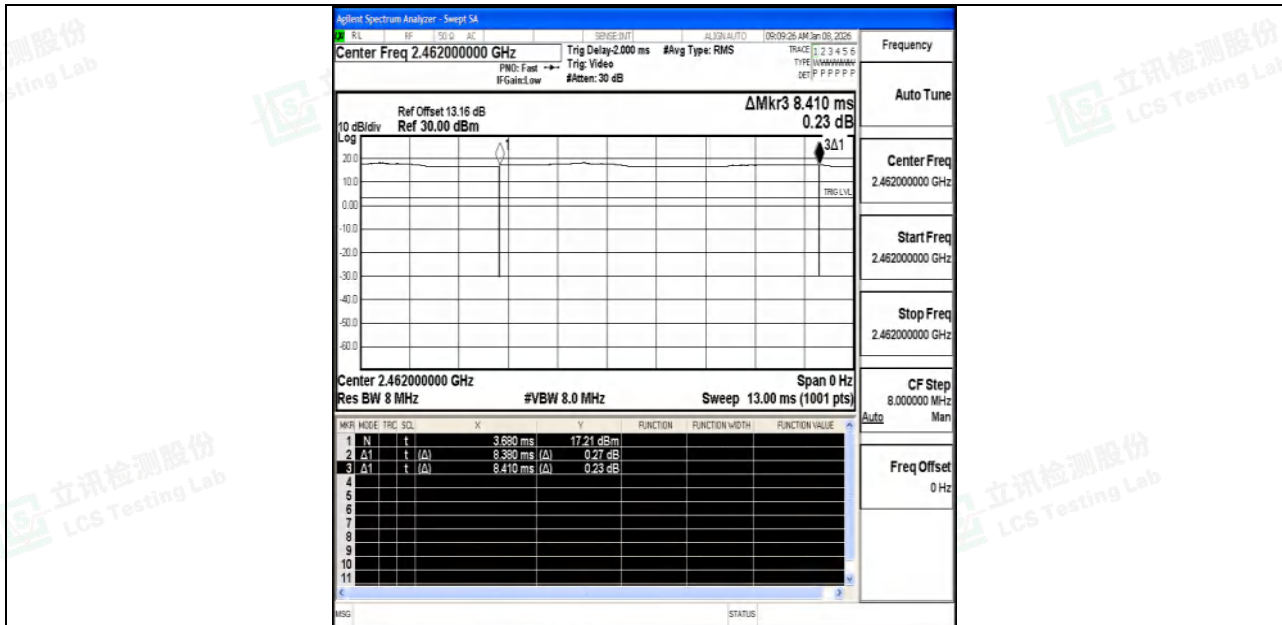


Shenzhen LCS Compliance Testing Laboratory Ltd.

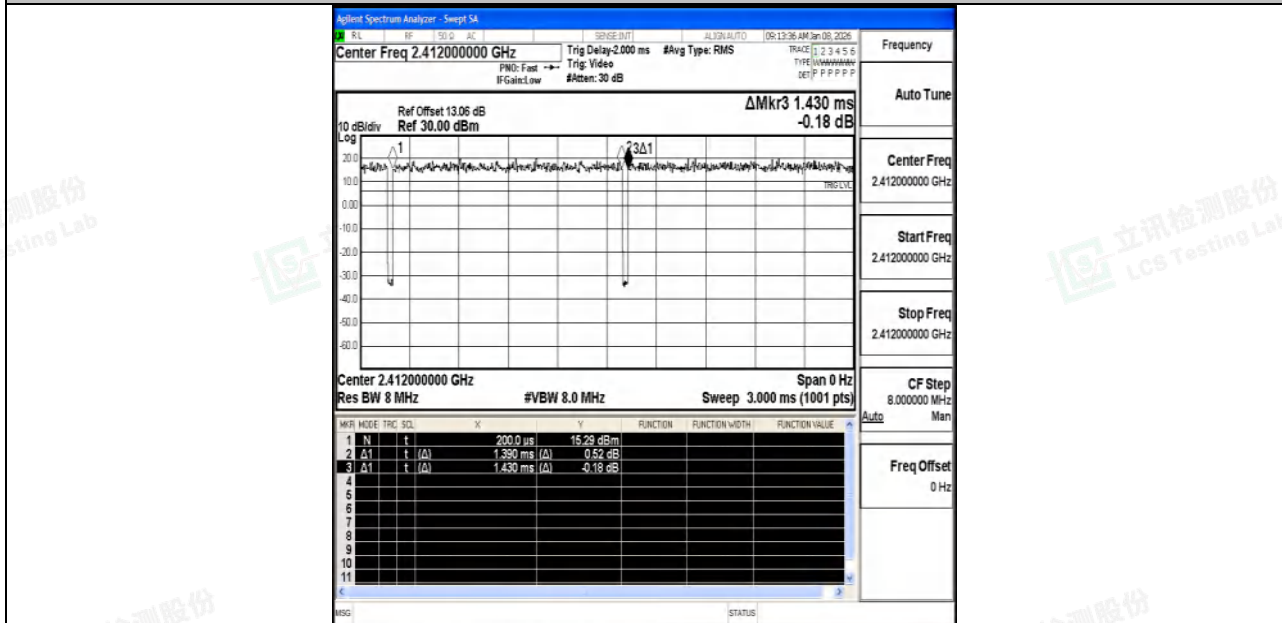
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

Scan code to check authenticity

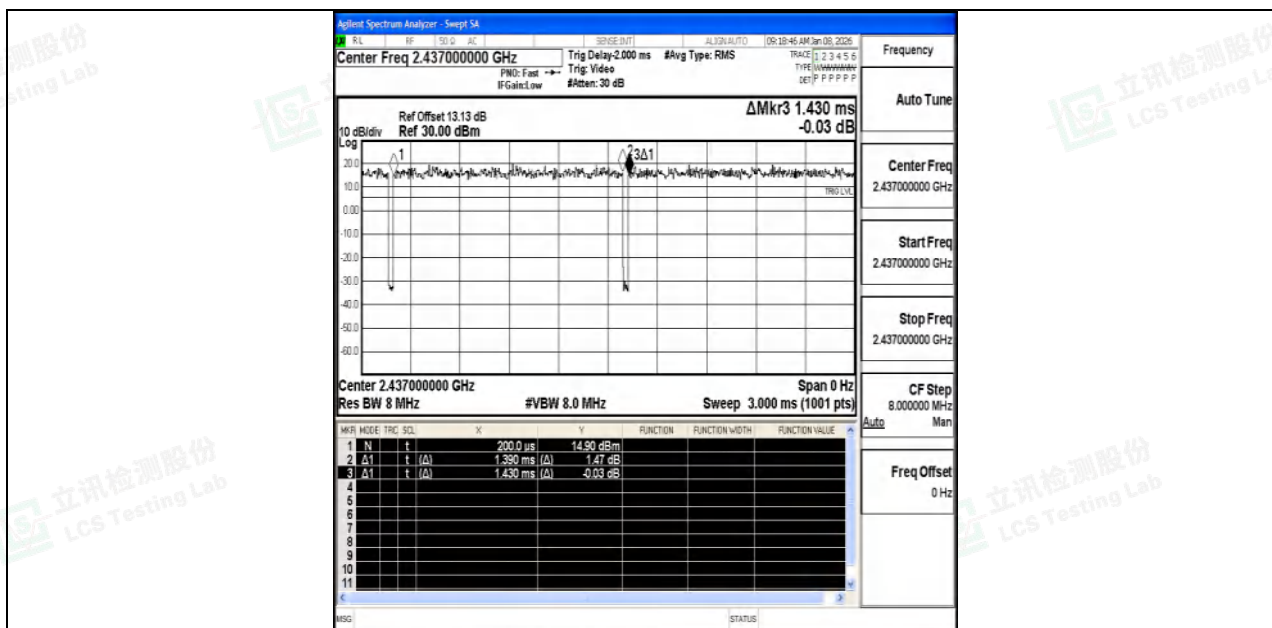


NTNV-11B-Ant2-2462

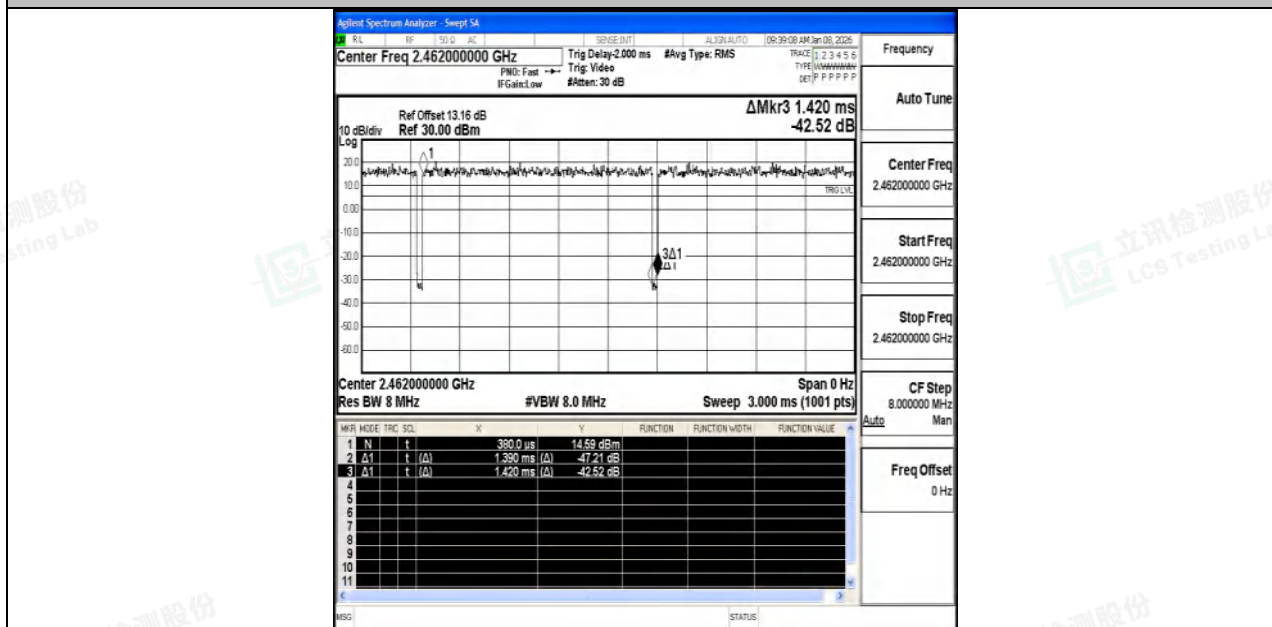


NTNV-11G-Ant2-2412





NTNV-11G-Ant2-2437



NTNV-11G-Ant2-2462

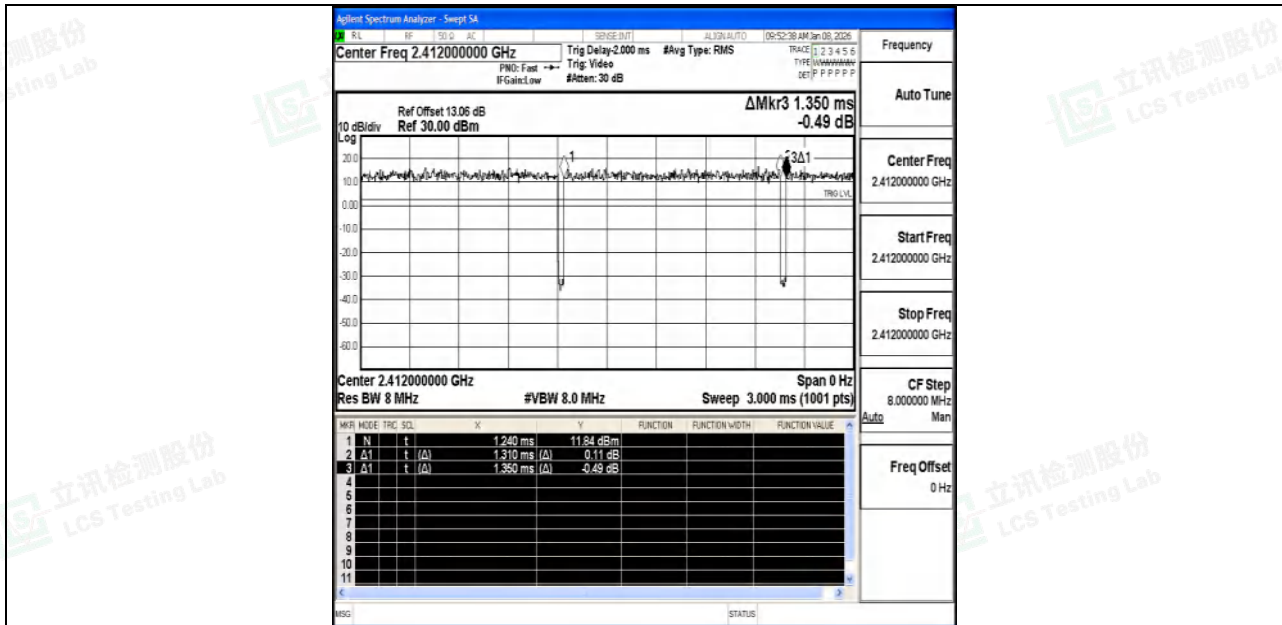


Shenzhen LCS Compliance Testing Laboratory Ltd.

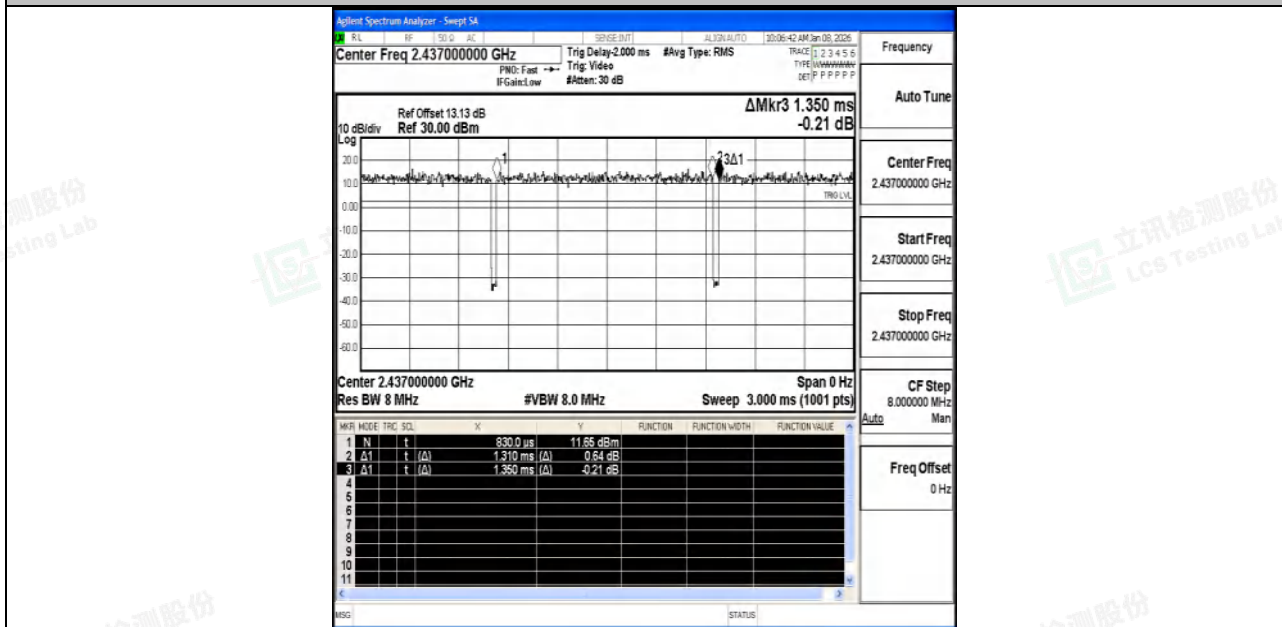
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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Scan code to check authenticity

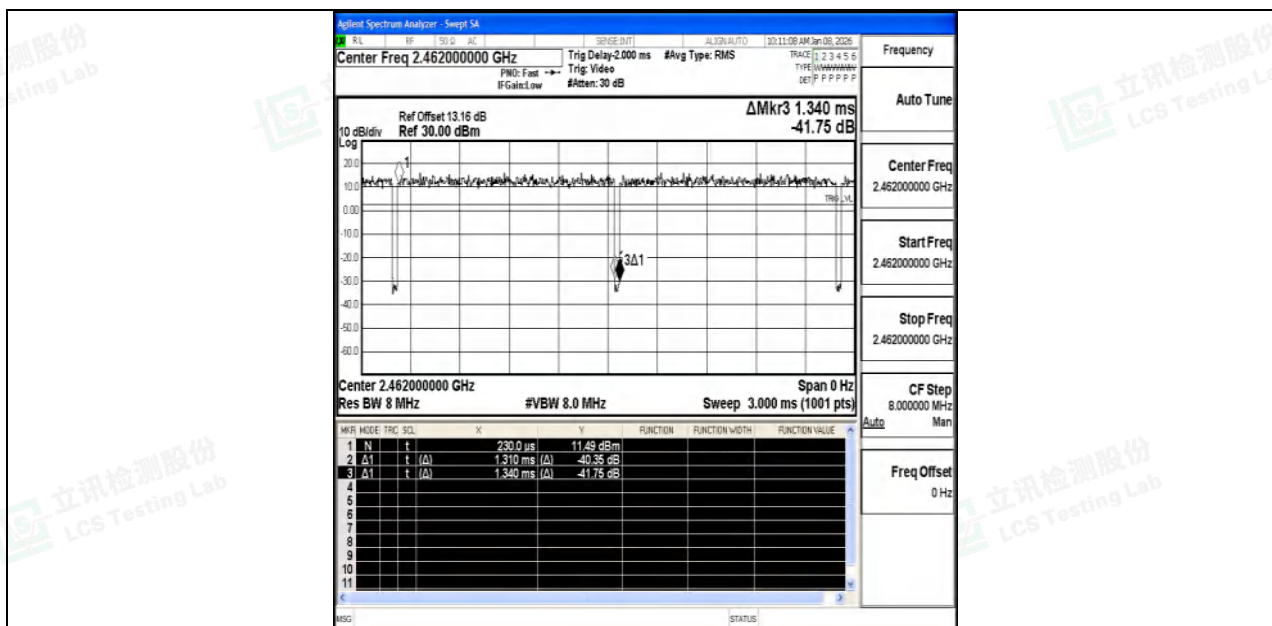


NTNV-11N20SISO-Ant2-2412

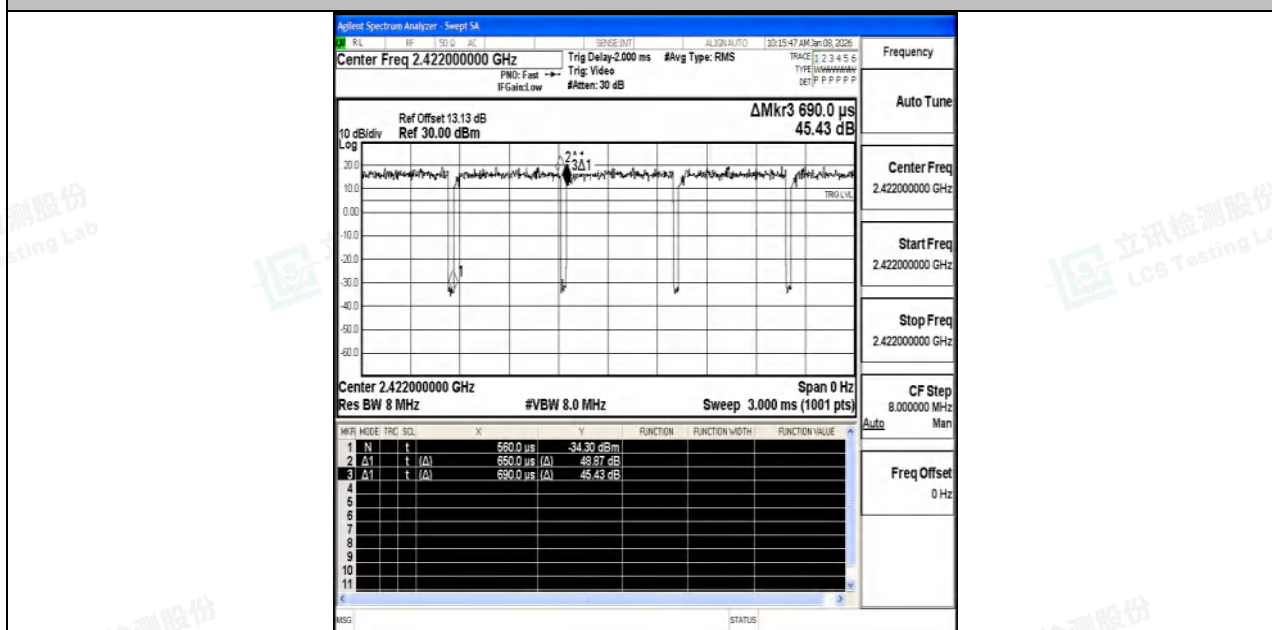


NTNV-11N20SISO-Ant2-2437





NTNV-11N20SISO-Ant2-2462



NTNV-11N40SISO-Ant2-2422

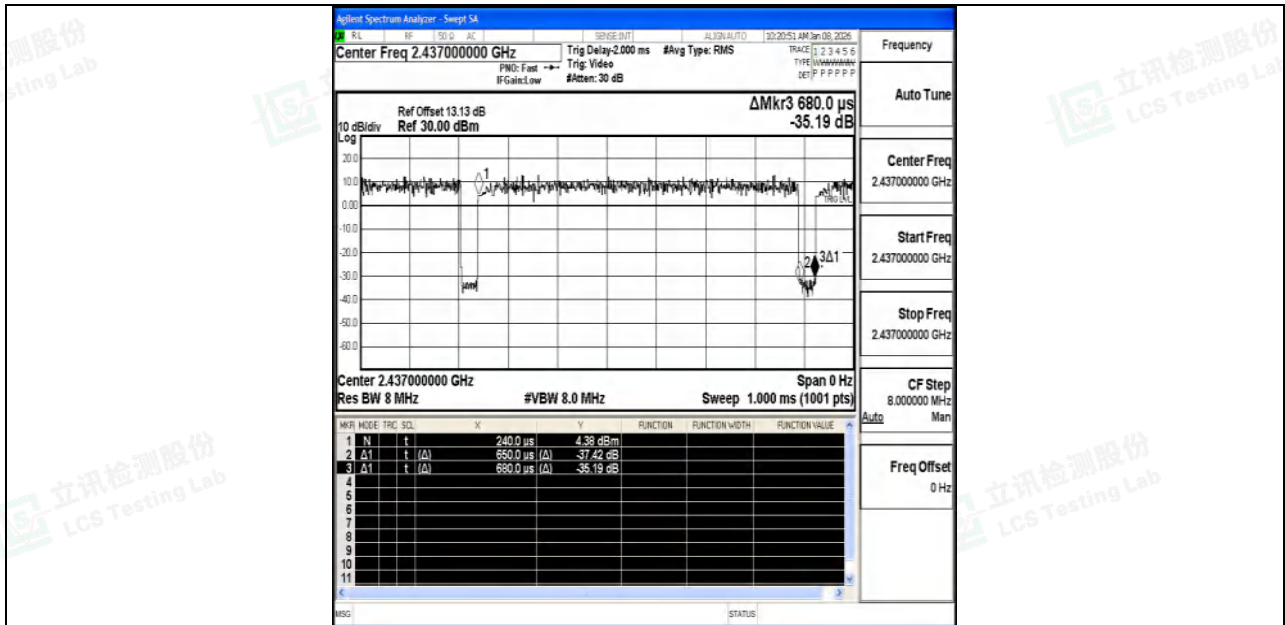


Shenzhen LCS Compliance Testing Laboratory Ltd.

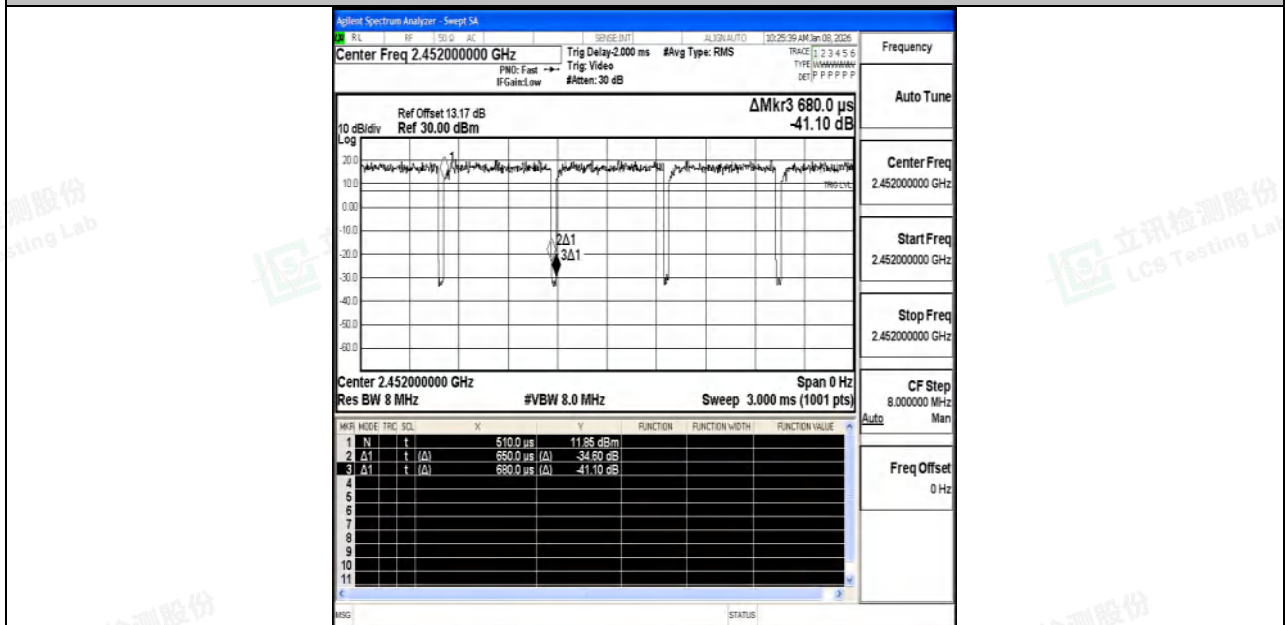
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NTNV-11N40SISO-Ant2-2437



NTNV-11N40SISO-Ant2-2452





C.7 Emissions in Restricted Bands

Test Result

TestMode	Antenna	Channel Name	Frequency [MHz]	Detector	Freq [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
11B	Ant1	Low	2412	Peak	2390.000	-38.07	≤-21.20	57.13	≤74	PASS
11B	Ant1	Low	2412	Peak	2310.000	-37.11	≤-21.20	58.09	≤74	PASS
11B	Ant1	Low	2412	Peak	2343.160	-34.49	≤-21.20	60.71	≤74	PASS
11B	Ant1	Low	2412	AV	2390.000	-44.69	≤-41.20	50.51	≤54	PASS
11B	Ant1	Low	2412	AV	2310.000	-45.35	≤-41.20	49.85	≤54	PASS
11B	Ant1	Low	2412	AV	2385.930	-44.39	≤-41.20	50.81	≤54	PASS
11B	Ant1	High	2462	Peak	2483.500	-37.91	≤-21.20	57.29	≤74	PASS
11B	Ant1	High	2462	Peak	2500.000	-40.84	≤-21.20	54.36	≤74	PASS
11B	Ant1	High	2462	Peak	2498.080	-36.35	≤-21.20	58.85	≤74	PASS
11B	Ant1	High	2462	AV	2483.500	-45.11	≤-41.20	50.09	≤54	PASS
11B	Ant1	High	2462	AV	2500.000	-45.18	≤-41.20	50.02	≤54	PASS
11B	Ant1	High	2462	AV	2488.180	-45.07	≤-41.20	50.13	≤54	PASS
11G	Ant1	Low	2412	Peak	2390.000	-37.15	≤-21.20	58.05	≤74	PASS
11G	Ant1	Low	2412	Peak	2310.000	-37.89	≤-21.20	57.31	≤74	PASS
11G	Ant1	Low	2412	Peak	2339.260	-34.32	≤-21.20	60.88	≤74	PASS
11G	Ant1	Low	2412	AV	2390.000	-43.65	≤-41.20	51.55	≤54	PASS
11G	Ant1	Low	2412	AV	2310.000	-45.09	≤-41.20	50.11	≤54	PASS
11G	Ant1	Low	2412	AV	2389.050	-43.44	≤-41.20	51.76	≤54	PASS
11G	Ant1	High	2462	Peak	2483.500	-36.22	≤-21.20	58.98	≤74	PASS
11G	Ant1	High	2462	Peak	2500.000	-37.25	≤-21.20	57.95	≤74	PASS
11G	Ant1	High	2462	Peak	2484.660	-34.6	≤-21.20	60.60	≤74	PASS
11G	Ant1	High	2462	AV	2483.500	-43.11	≤-41.20	52.09	≤54	PASS
11G	Ant1	High	2462	AV	2500.000	-44.75	≤-41.20	50.45	≤54	PASS
11G	Ant1	High	2462	AV	2483.560	-43.26	≤-41.20	51.94	≤54	PASS
11N20SISO	Ant1	Low	2412	Peak	2390.000	-35.62	≤-21.20	59.58	≤74	PASS
11N20SISO	Ant1	Low	2412	Peak	2310.000	-38.7	≤-21.20	56.50	≤74	PASS
11N20SISO	Ant1	Low	2412	Peak	2385.020	-34.83	≤-21.20	60.37	≤74	PASS
11N20SISO	Ant1	Low	2412	AV	2390.000	-43.94	≤-41.20	51.26	≤54	PASS
11N20SISO	Ant1	Low	2412	AV	2310.000	-45.04	≤-41.20	50.16	≤54	PASS
11N20SISO	Ant1	Low	2412	AV	2388.920	-43.9	≤-41.20	51.30	≤54	PASS
11N20SISO	Ant1	High	2462	Peak	2483.500	-35.84	≤-21.20	59.36	≤74	PASS
11N20SISO	Ant1	High	2462	Peak	2500.000	-37.67	≤-21.20	57.53	≤74	PASS
11N20SISO	Ant1	High	2462	Peak	2496.320	-35.55	≤-21.20	59.65	≤74	PASS
11N20SISO	Ant1	High	2462	AV	2483.500	-44.02	≤-41.20	51.18	≤54	PASS





11N20SISO	Ant1	High	2462	AV	2500.000	-44.61	≤-41.20	50.59	≤54	PASS
11N20SISO	Ant1	High	2462	AV	2483.560	-43.98	≤-41.20	51.22	≤54	PASS
11N40SISO	Ant1	Low	2422	Peak	2390.000	-37.01	≤-21.20	58.19	≤74	PASS
11N40SISO	Ant1	Low	2422	Peak	2310.000	-38.21	≤-21.20	56.99	≤74	PASS
11N40SISO	Ant1	Low	2422	Peak	2387.450	-35.15	≤-21.20	60.05	≤74	PASS
11N40SISO	Ant1	Low	2422	AV	2390.000	-42.71	≤-41.20	52.49	≤54	PASS
11N40SISO	Ant1	Low	2422	AV	2310.000	-43.46	≤-41.20	51.74	≤54	PASS
11N40SISO	Ant1	Low	2422	AV	2388.200	-41.89	≤-41.20	53.31	≤54	PASS
11N40SISO	Ant1	High	2452	Peak	2483.500	-33.74	≤-21.20	61.46	≤74	PASS
11N40SISO	Ant1	High	2452	Peak	2500.000	-37.92	≤-21.20	57.28	≤74	PASS
11N40SISO	Ant1	High	2452	Peak	2484.250	-32.34	≤-21.20	62.86	≤74	PASS
11N40SISO	Ant1	High	2452	AV	2483.500	-42.18	≤-41.20	53.02	≤54	PASS
11N40SISO	Ant1	High	2452	AV	2500.000	-44.65	≤-41.20	50.55	≤54	PASS
11N40SISO	Ant1	High	2452	AV	2484.250	-41.52	≤-41.20	53.68	≤54	PASS

Note :offset=System attenuation +cabal loss

Note:

1. The Antenna Gain is compensated in the graph.
2. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

