



Appendix A

RF Test Data for 2.4GWIFI (Conducted Measurement)

Product Name: Smart Relay

Test Model: SRHW01

Environmental Conditions

Temperature:	23.5 ° C
Relative Humidity:	52.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Wunder Wu
Supervised by:	Li huan



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A.1 DTS Bandwidth

Test Result

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	9.080	2407.480	2416.560	0.5	PASS
		2437	9.040	2432.480	2441.520	0.5	PASS
		2462	9.560	2456.960	2466.520	0.5	PASS
11G	Ant1	2412	16.360	2403.840	2420.200	0.5	PASS
		2437	16.320	2428.840	2445.160	0.5	PASS
		2462	16.120	2453.760	2469.880	0.5	PASS
11N20SISO	Ant1	2412	17.600	2403.200	2420.800	0.5	PASS
		2437	17.560	2428.240	2445.800	0.5	PASS
		2462	17.200	2453.200	2470.400	0.5	PASS
11N40SISO	Ant1	2422	35.680	2404.480	2440.160	0.5	PASS
		2437	35.520	2419.400	2454.920	0.5	PASS
		2452	35.440	2434.080	2469.520	0.5	PASS



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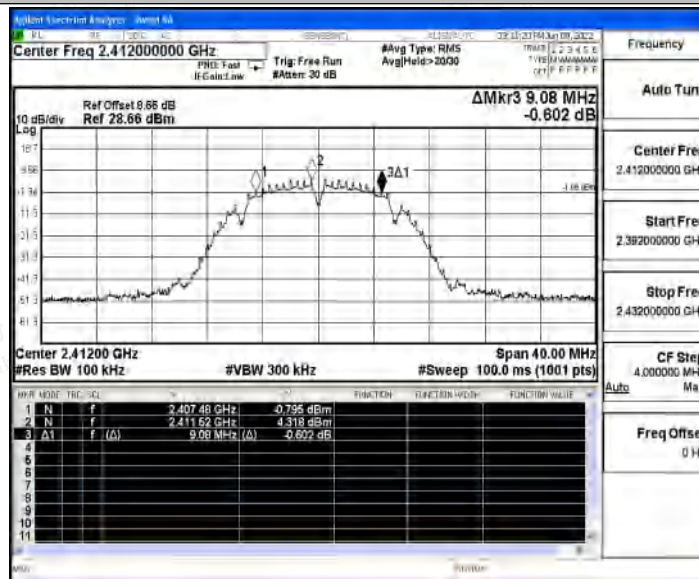
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Test Graphs

11B_Ant1_2412



11B_Ant1_2437



11B_Ant1_2462

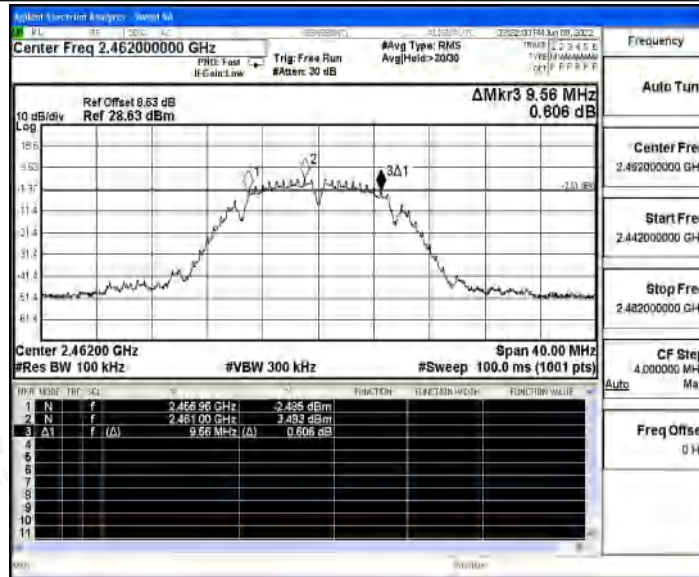


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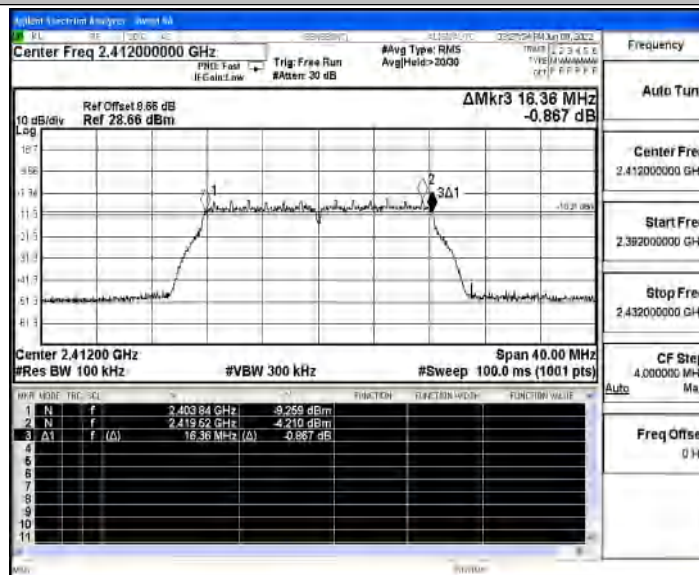
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11G_Ant1_2412



11G_Ant1_2437

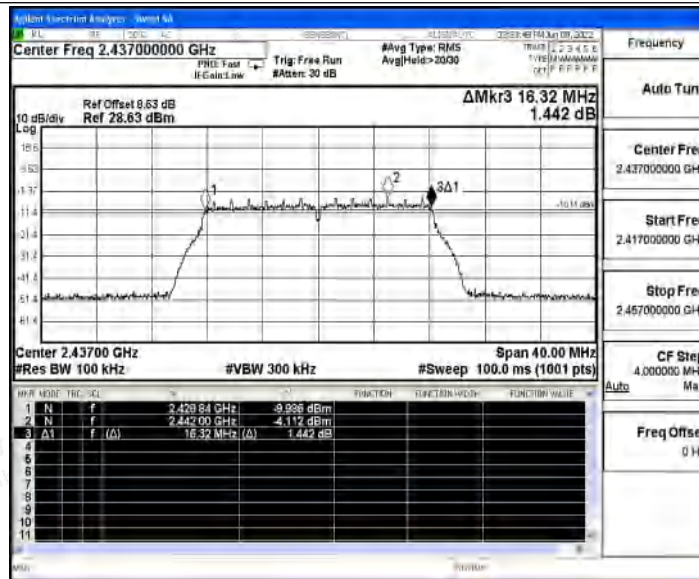


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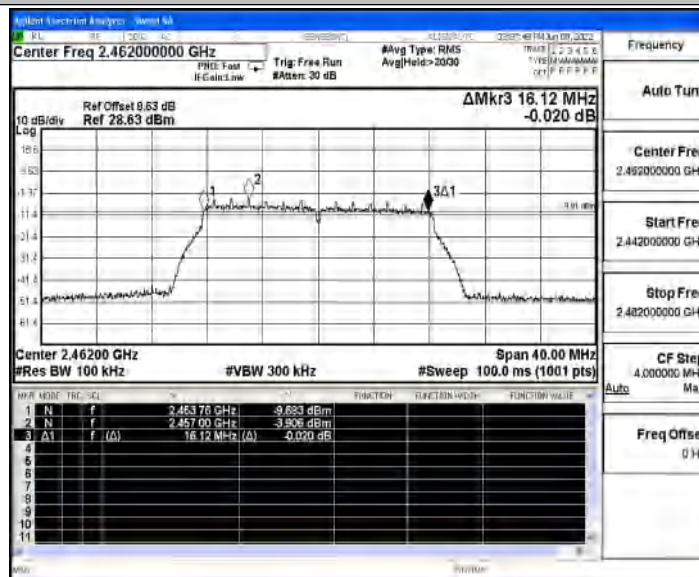
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11G_Ant1_2462



11N20SISO_Ant1_2412

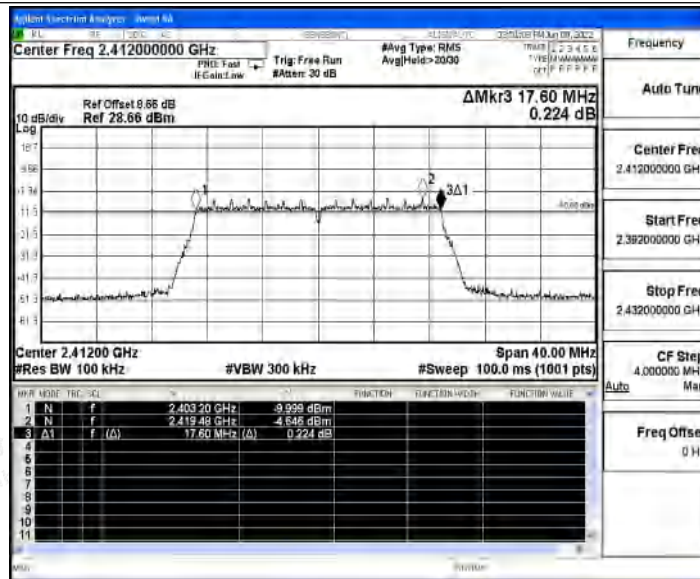


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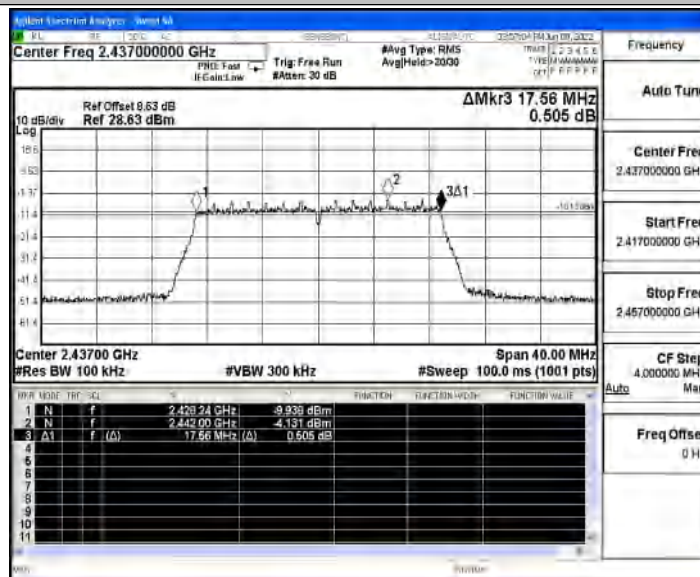
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11N20SISO_Ant1_2437



11N20SISO_Ant1_2462

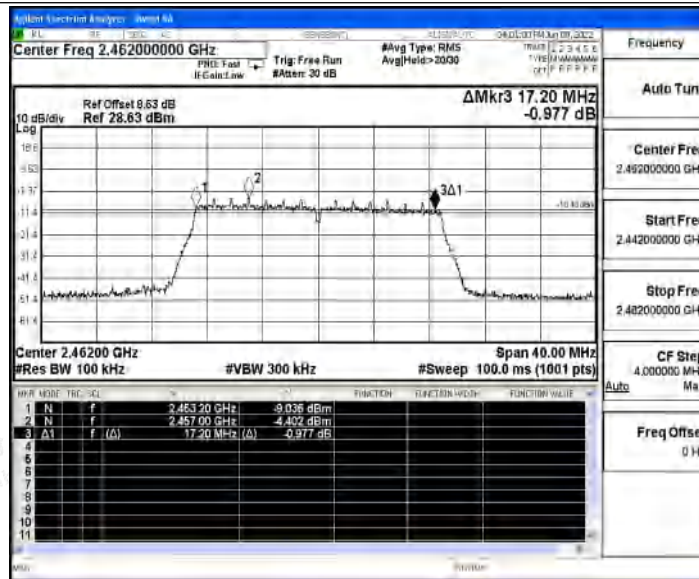


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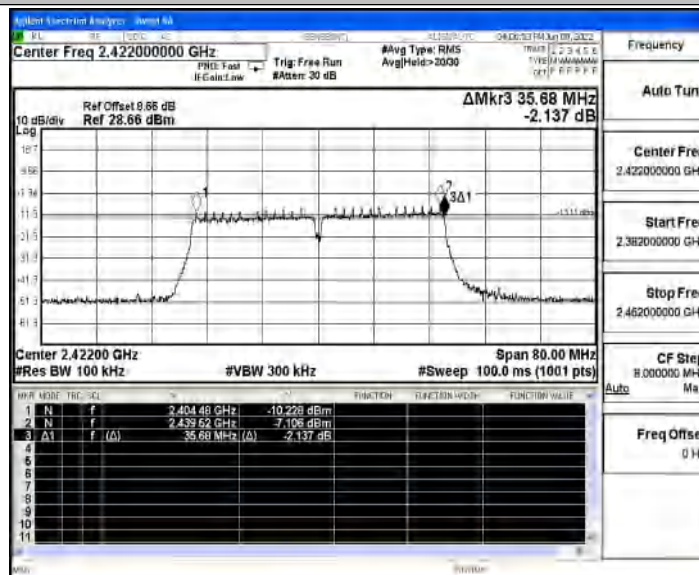
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11N40SISO_Ant1_2422



11N40SISO_Ant1_2437

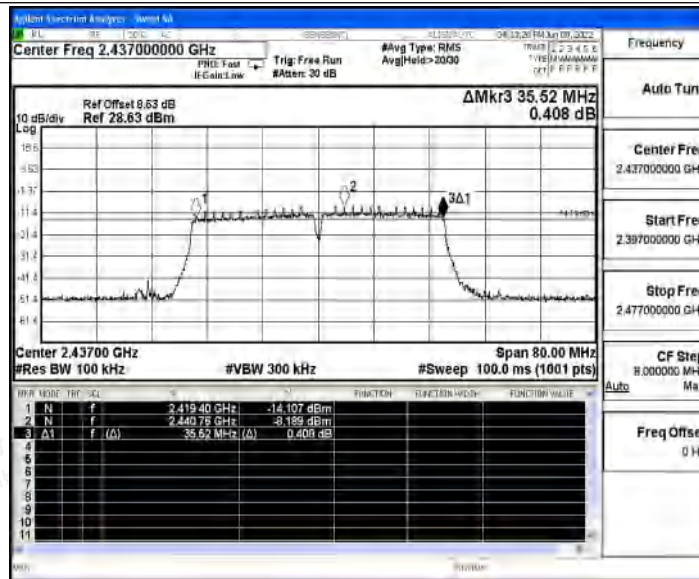


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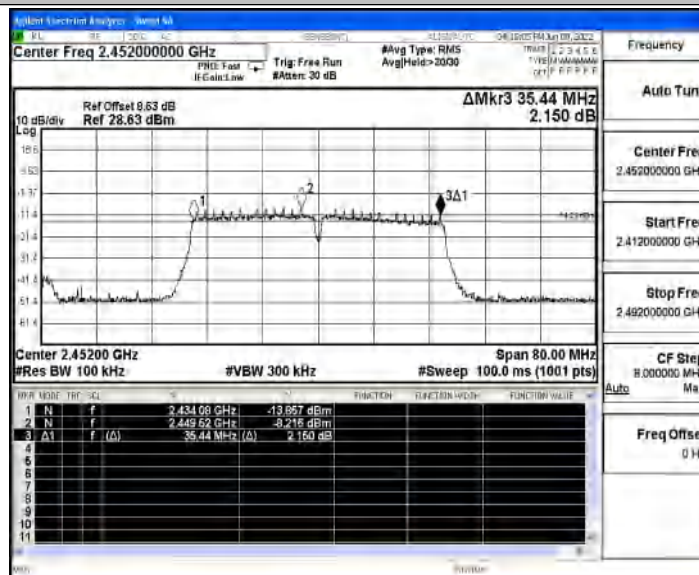
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11N40SISO_Ant1_2452



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A.2 Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	2412	15.99	≤30.00	PASS
		2437	15.48	≤30.00	PASS
		2462	15.29	≤30.00	PASS
11G	Ant1	2412	15.09	≤30.00	PASS
		2437	14.93	≤30.00	PASS
		2462	14.83	≤30.00	PASS
11N20SISO	Ant1	2412	14.63	≤30.00	PASS
		2437	14.78	≤30.00	PASS
		2462	14.34	≤30.00	PASS
11N40SISO	Ant1	2422	14.33	≤30.00	PASS
		2437	13.79	≤30.00	PASS
		2452	13.53	≤30.00	PASS



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A.3 Maximum power spectral density

Test Result

TestMode	Antenna	Channel	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-6.87	≤8.00	PASS
		2437	-10.56	≤8.00	PASS
		2462	-11.54	≤8.00	PASS
11G	Ant1	2412	-18.09	≤8.00	PASS
		2437	-17.98	≤8.00	PASS
		2462	-17.84	≤8.00	PASS
11N20SISO	Ant1	2412	-18.65	≤8.00	PASS
		2437	-19.58	≤8.00	PASS
		2462	-19.26	≤8.00	PASS
11N40SISO	Ant1	2422	-21.72	≤8.00	PASS
		2437	-23.05	≤8.00	PASS
		2452	-22.23	≤8.00	PASS



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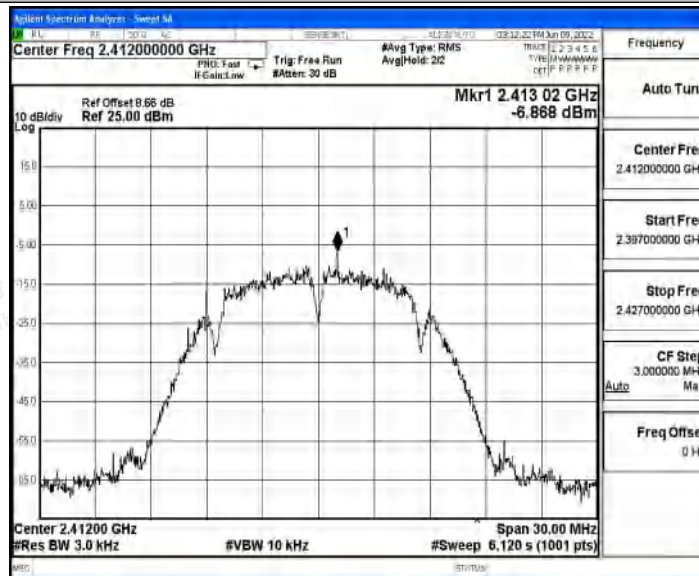
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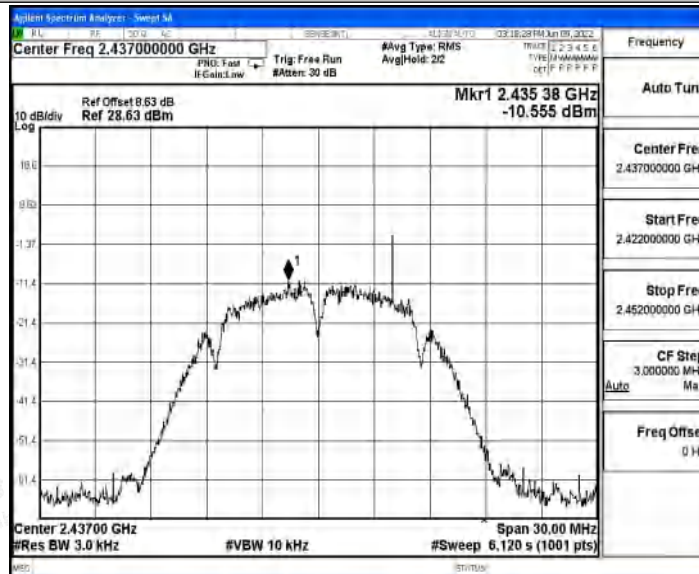


Test Graphs

11B_Ant1_2412



11B_Ant1_2437



11B_Ant1_2462

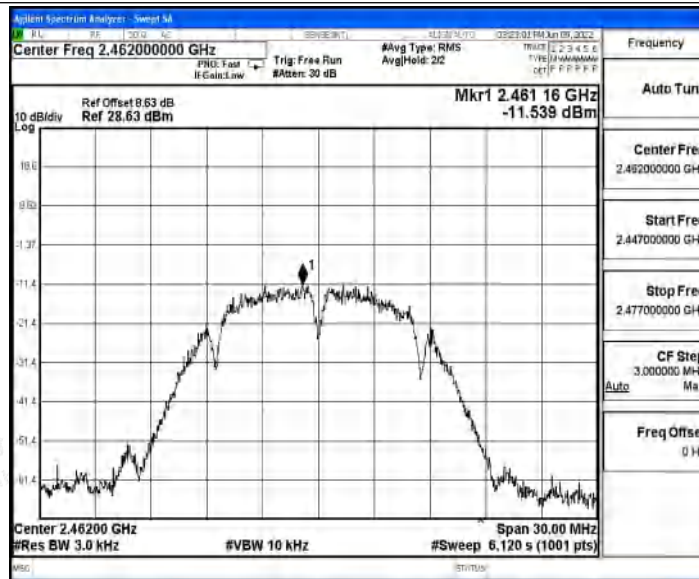


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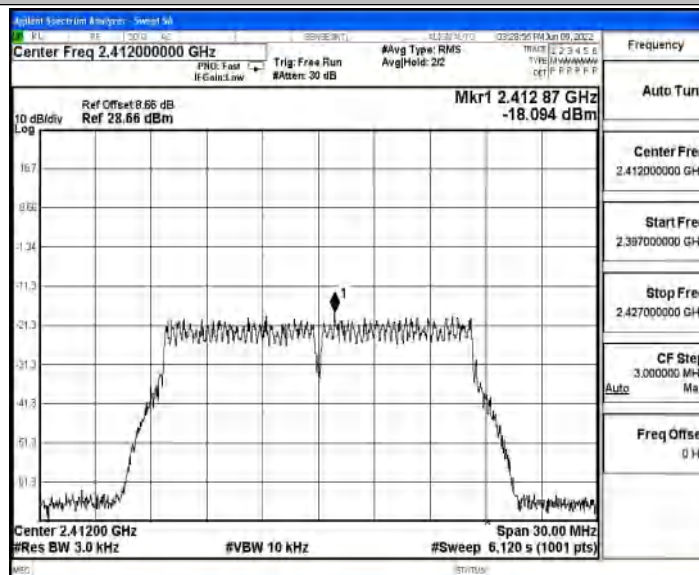
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11G_Ant1_2412



11G_Ant1_2437

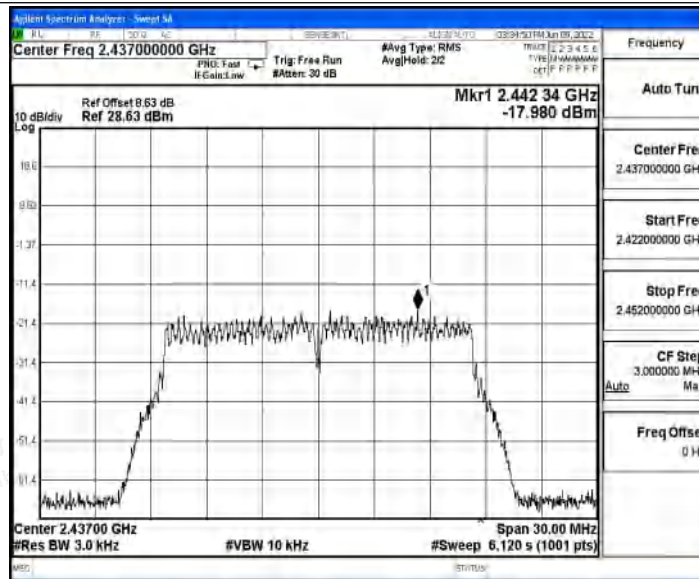


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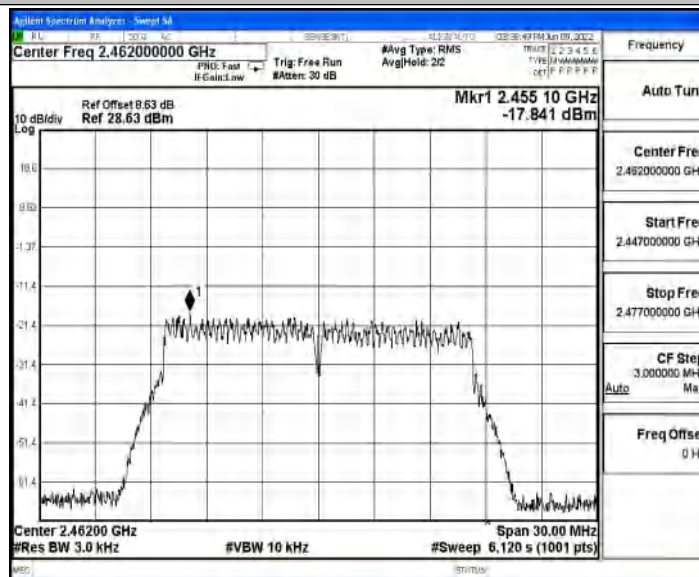
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11G_Ant1_2462



11N20SISO_Ant1_2412

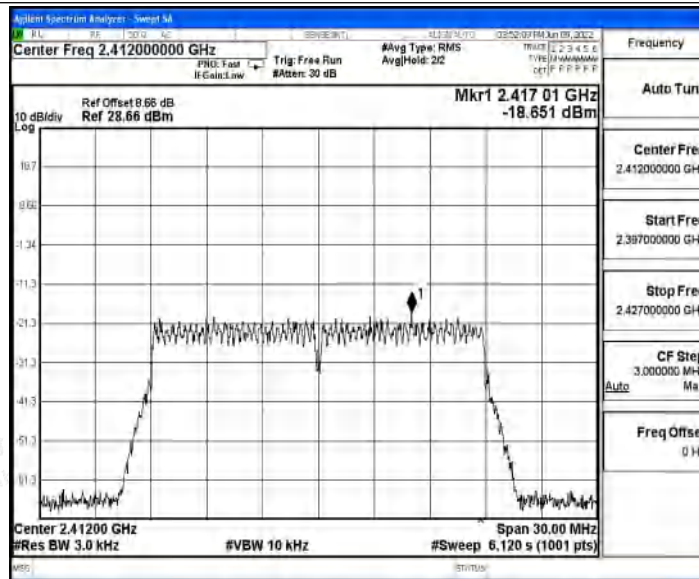


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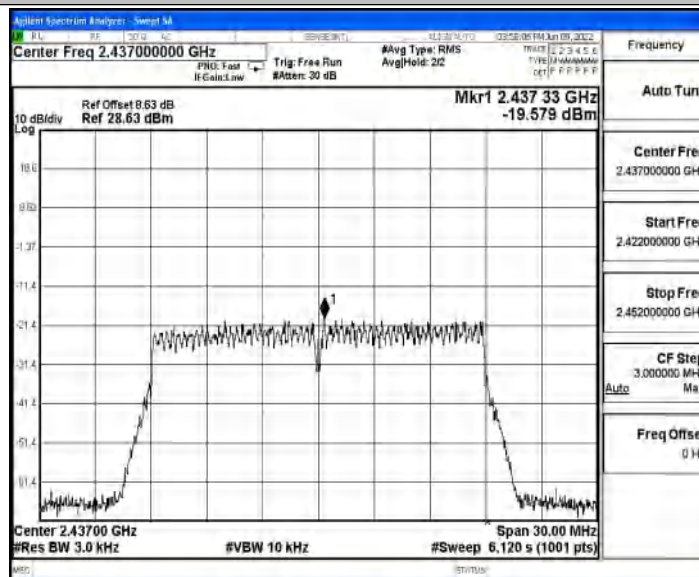
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11N20SISO_Ant1_2437



11N20SISO_Ant1_2462

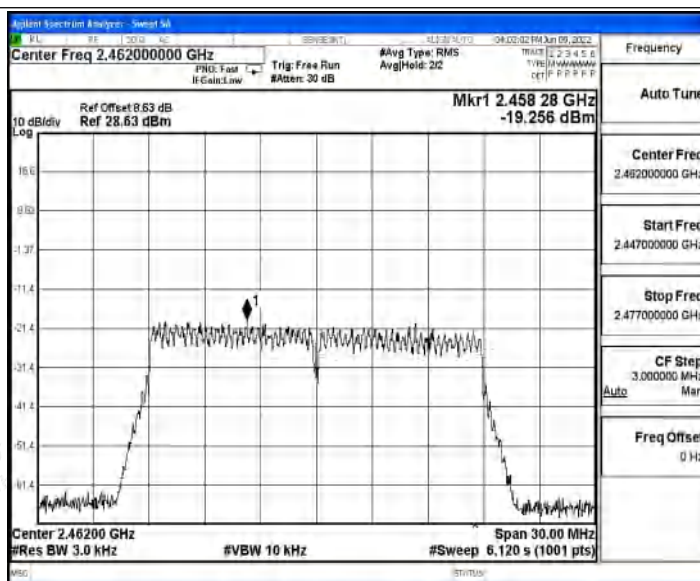


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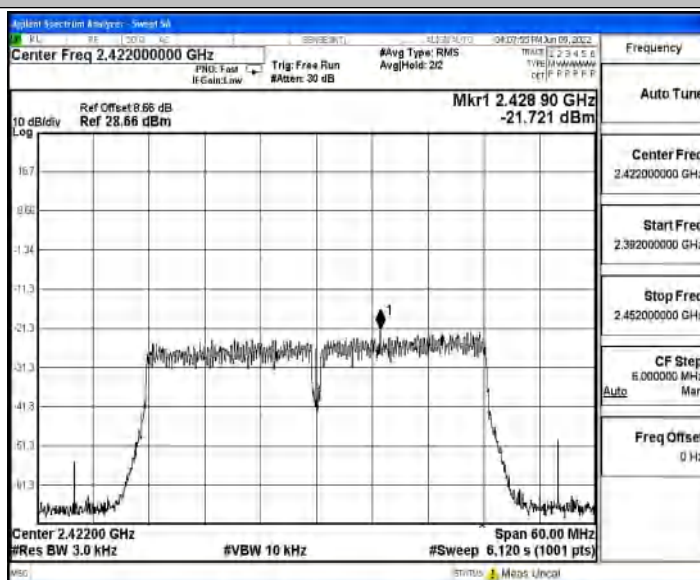
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11N40SISO Ant1 2422



11N40SISO Ant1 2437

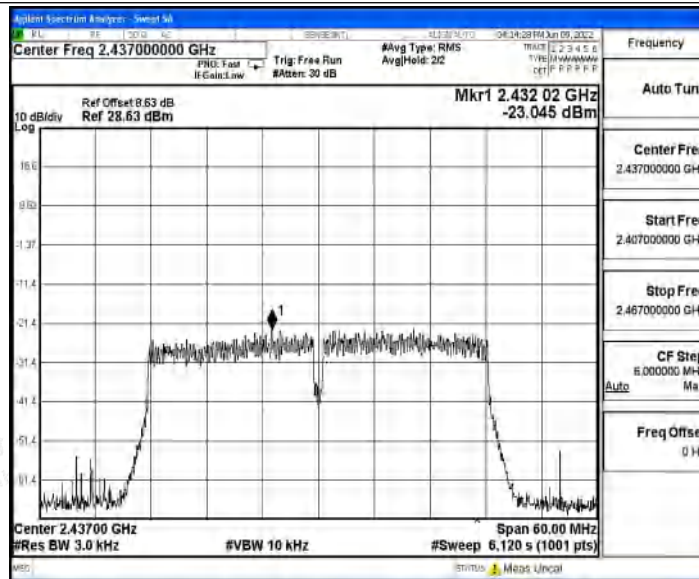


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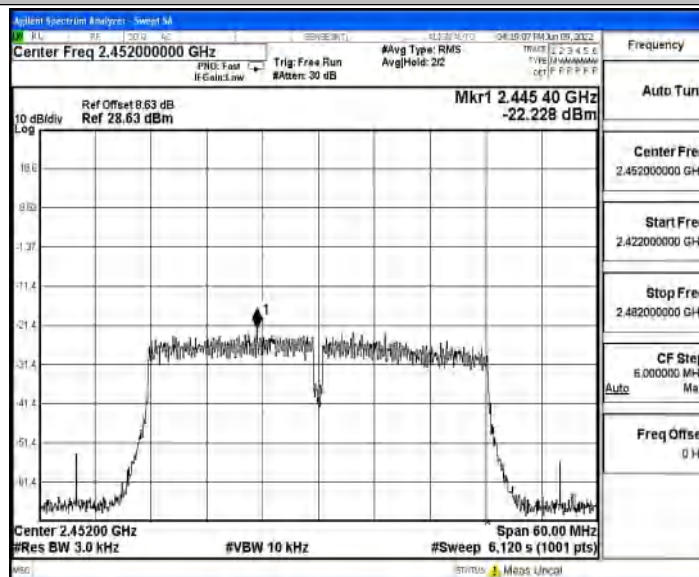
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11N40SISO_Ant1_2452



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A.4 Band edge measurements

Test Result

TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	4.38	-47.59	≤ -15.62	PASS
		High	2462	3.81	-46.72	≤ -16.19	PASS
11G	Ant1	Low	2412	-3.96	-48.08	≤ -23.96	PASS
		High	2462	-3.87	-46.08	≤ -23.87	PASS
11N20SISO	Ant1	Low	2412	-4.55	-47.41	≤ -24.55	PASS
		High	2462	-4.28	-45.55	≤ -24.28	PASS
11N40SISO	Ant1	Low	2422	-8.04	-47.93	≤ -28.04	PASS
		High	2452	-8.20	-47.49	≤ -28.2	PASS



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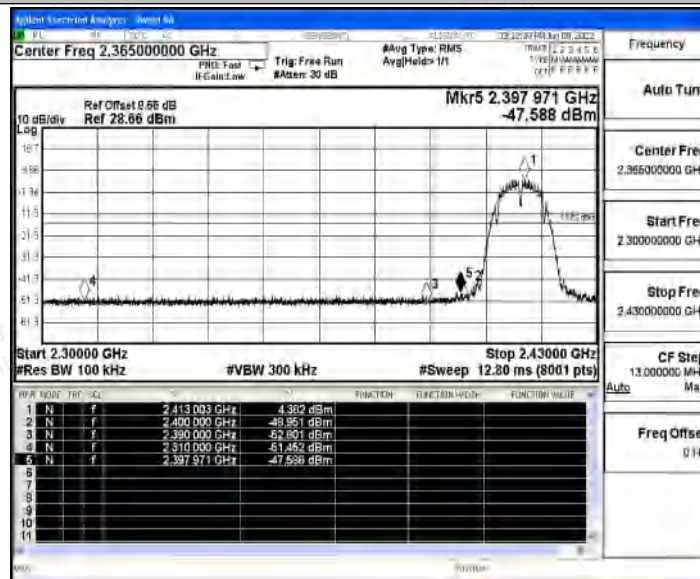
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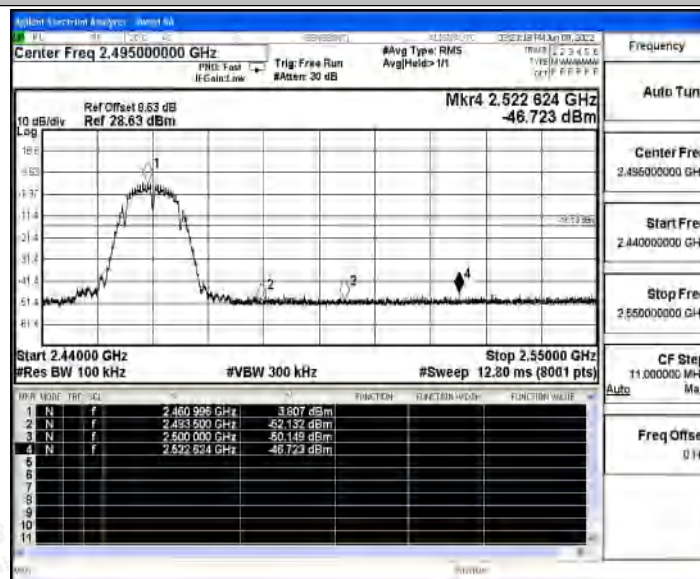


Test Graphs

11B_Ant1_Low_2412



11B_Ant1_High_2462



11G_Ant1_Low_2412

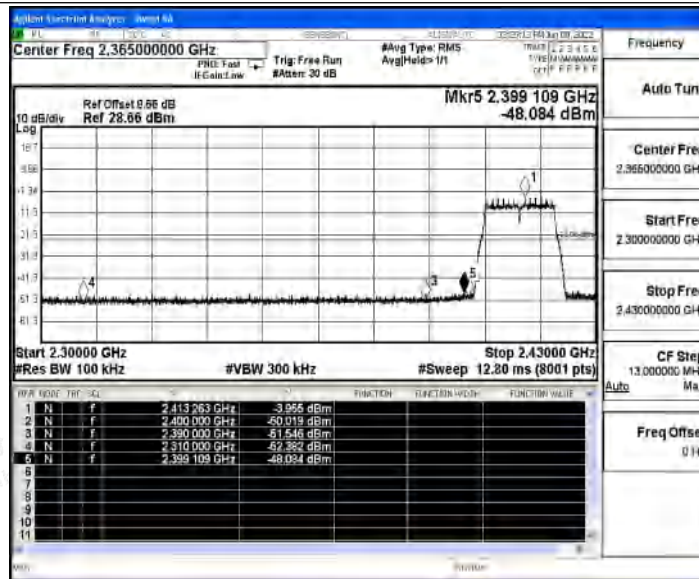


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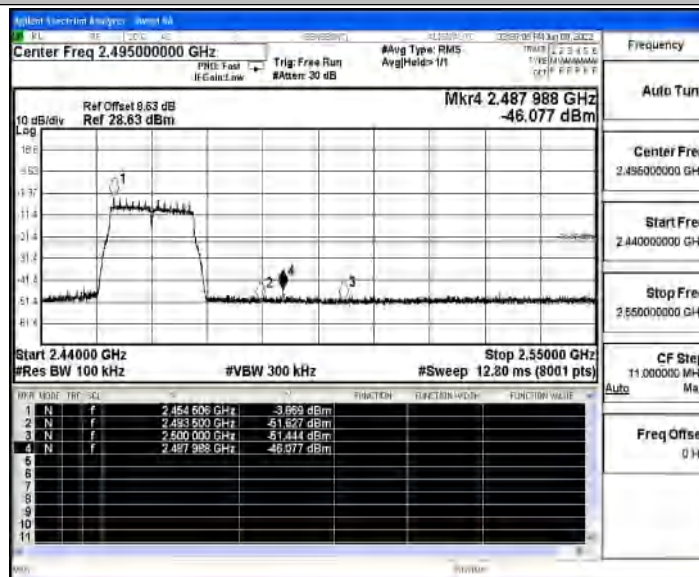
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11G_Ant1_High_2462



11N20SISO_Ant1_Low_2412

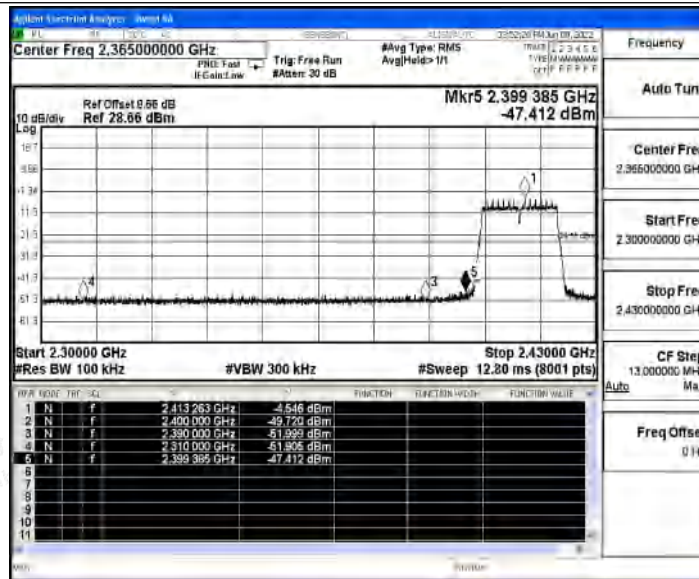


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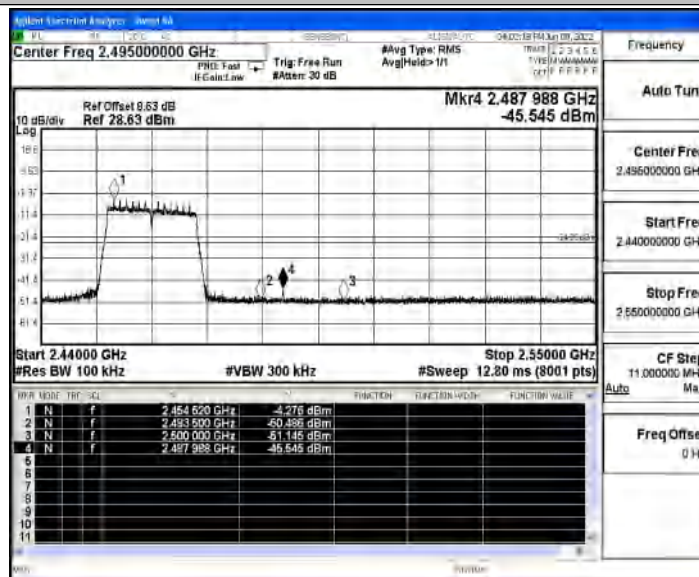
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11N20SISO_Ant1_High_2462



11N40SISO_Ant1_Low_2422

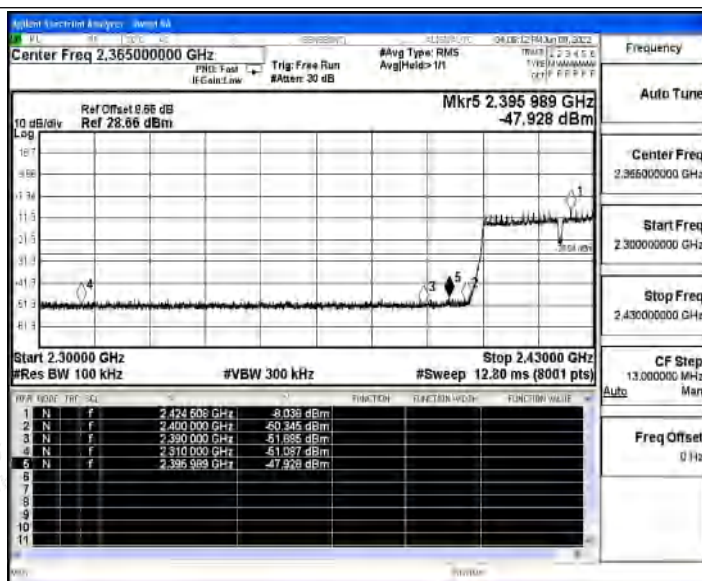


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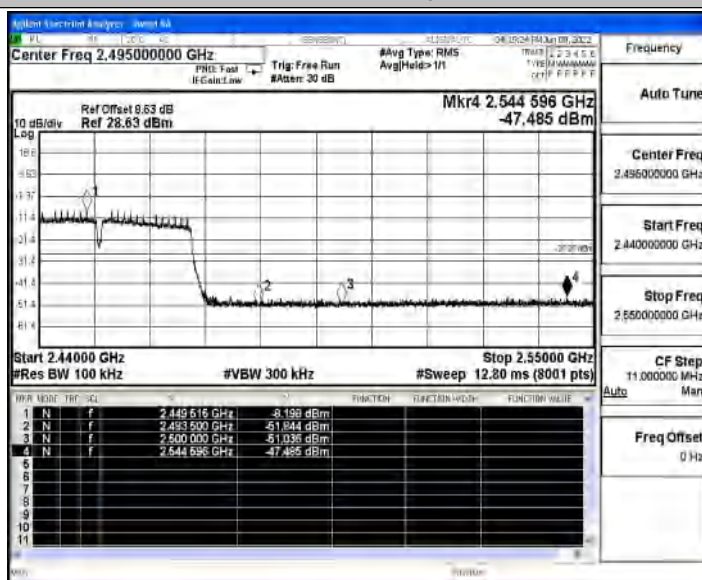
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11N40SISO Ant1 High 2452



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A.5 Conducted Spurious Emission

Test Result

TestMode	Antenna	Channel	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	4.19	4.19	---	PASS
			30~1000	4.19	-52.82	≤ -15.81	PASS
			1000~26500	4.19	-46.03	≤ -15.81	PASS
		2437	Reference	3.81	3.81	---	PASS
			30~1000	3.81	-60.52	≤ -16.19	PASS
			1000~26500	3.81	-45.63	≤ -16.19	PASS
		2462	Reference	3.78	3.78	---	PASS
			30~1000	3.78	-60.58	≤ -16.22	PASS
			1000~26500	3.78	-45.78	≤ -16.22	PASS
11G	Ant1	2412	Reference	-4.14	-4.14	---	PASS
			30~1000	-4.14	-32.06	≤ -24.14	PASS
			1000~26500	-4.14	-41.83	≤ -24.14	PASS
		2437	Reference	-4.06	-4.06	---	PASS
			30~1000	-4.06	-32.88	≤ -24.06	PASS
			1000~26500	-4.06	-45.91	≤ -24.06	PASS
		2462	Reference	-3.95	-3.95	---	PASS
			30~1000	-3.95	-60.2	≤ -23.95	PASS
			1000~26500	-3.95	-46.18	≤ -23.95	PASS
11N20SISO	Ant1	2412	Reference	-4.61	-4.61	---	PASS
			30~1000	-4.61	-40.15	≤ -24.61	PASS
			1000~26500	-4.61	-45.68	≤ -24.61	PASS
		2437	Reference	-4.22	-4.22	---	PASS
			30~1000	-4.22	-60.46	≤ -24.22	PASS
			1000~26500	-4.22	-45.65	≤ -24.22	PASS
		2462	Reference	-4.14	-4.14	---	PASS
			30~1000	-4.14	-59.94	≤ -24.14	PASS
			1000~26500	-4.14	-45.99	≤ -24.14	PASS
11N40SISO	Ant1	2422	Reference	-6.97	-6.97	---	PASS
			30~1000	-6.97	-60.16	≤ -26.97	PASS
			1000~26500	-6.97	-45.91	≤ -26.97	PASS
		2437	Reference	-7.99	-7.99	---	PASS
			30~1000	-7.99	-43.54	≤ -27.99	PASS
			1000~26500	-7.99	-46.29	≤ -27.99	PASS
		2452	Reference	-7.89	-7.89	---	PASS
			30~1000	-7.89	-58.57	≤ -27.89	PASS
			1000~26500	-7.89	-46.22	≤ -27.89	PASS



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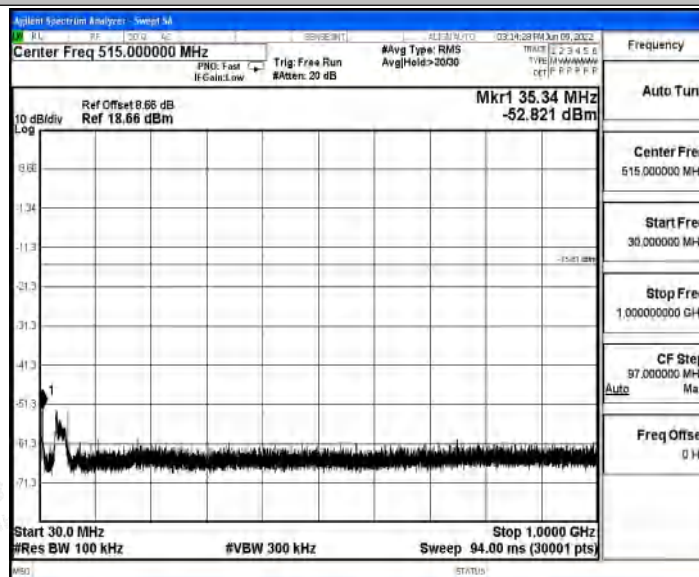


Test Graphs

11B_Ant1_2412_0~Reference



11B_Ant1_2412_30~1000



11B_Ant1_2412_1000~26500

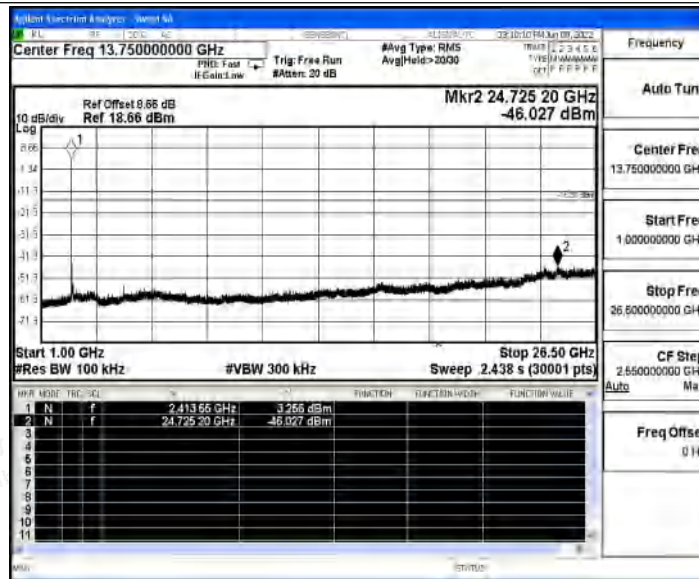


Shenzhen LCS Compliance Testing Laboratory Ltd.

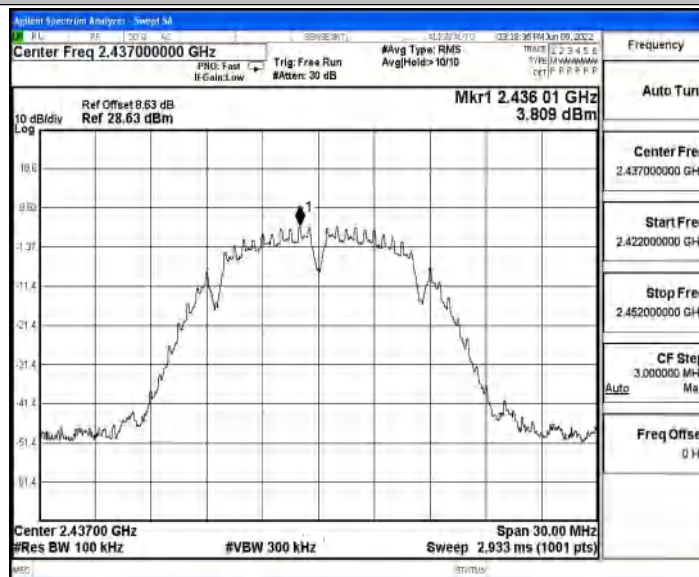
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11B_Ant1_2437_0~Reference



11B_Ant1_2437_30~1000

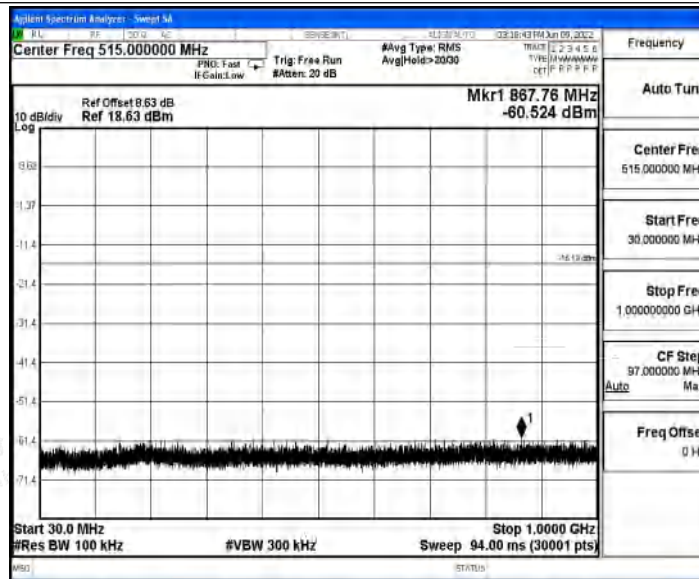


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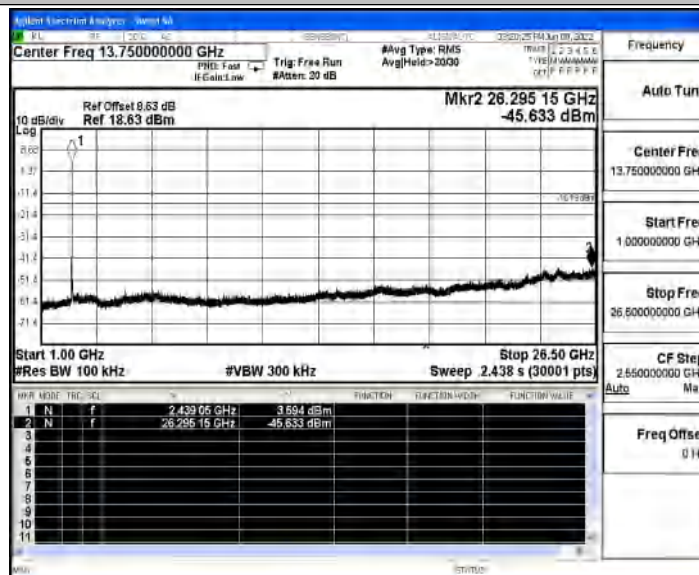
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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11B_Ant1_2437_1000~26500



11B_Ant1_2462_0~Reference

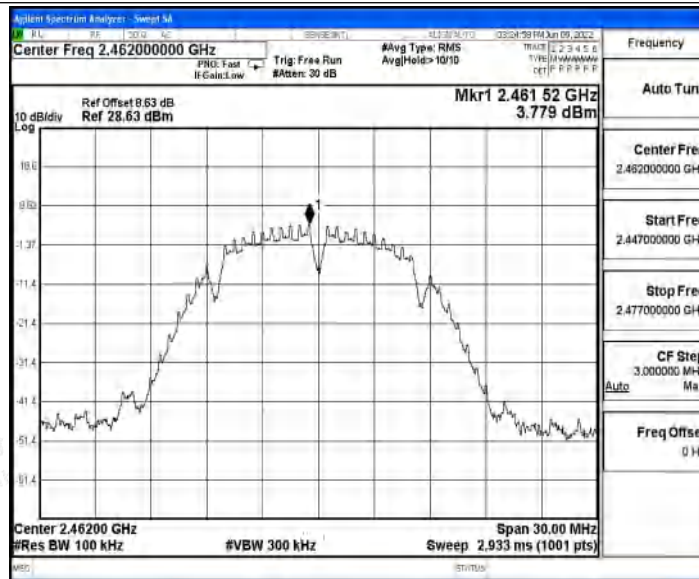


Shenzhen LCS Compliance Testing Laboratory Ltd.

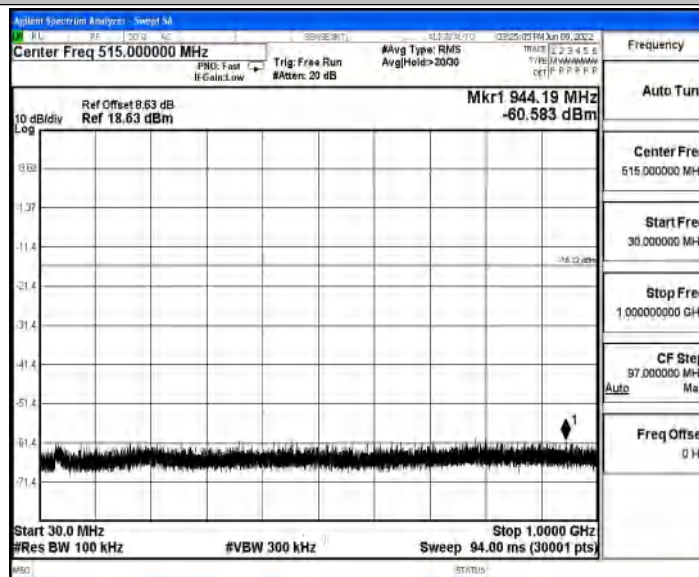
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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11B_Ant1_2462_30~1000



11B_Ant1_2462_1000~26500

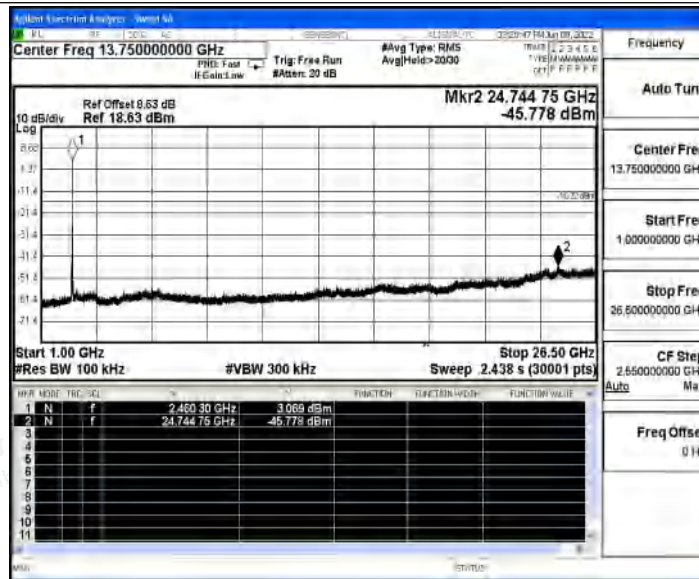


Shenzhen LCS Compliance Testing Laboratory Ltd.

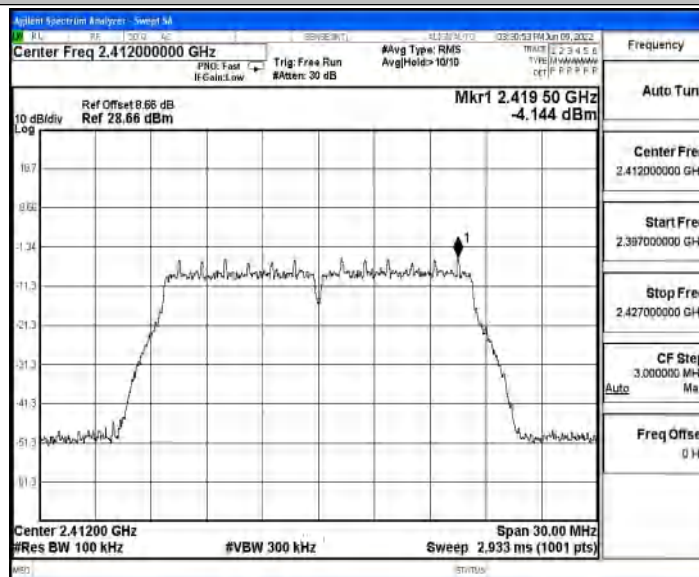
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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11G_Ant1_2412_0~Reference



11G_Ant1_2412_30~1000

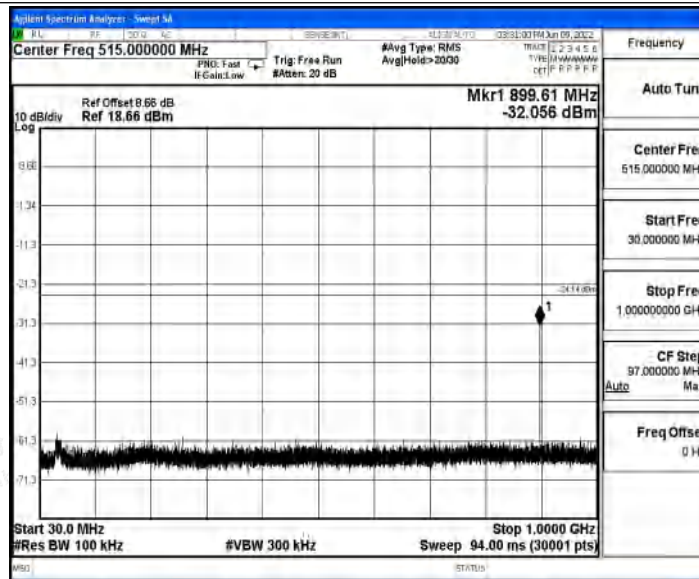


Shenzhen LCS Compliance Testing Laboratory Ltd.

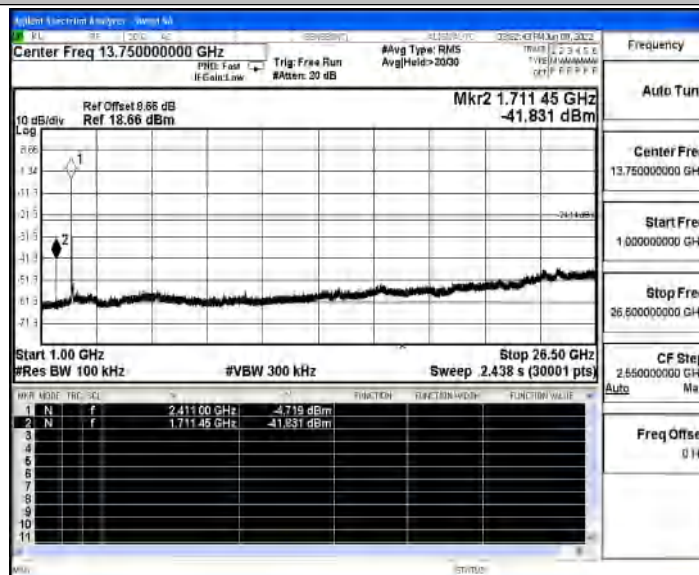
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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11G_Ant1_2412_1000~26500



11G_Ant1_2437_0~Reference

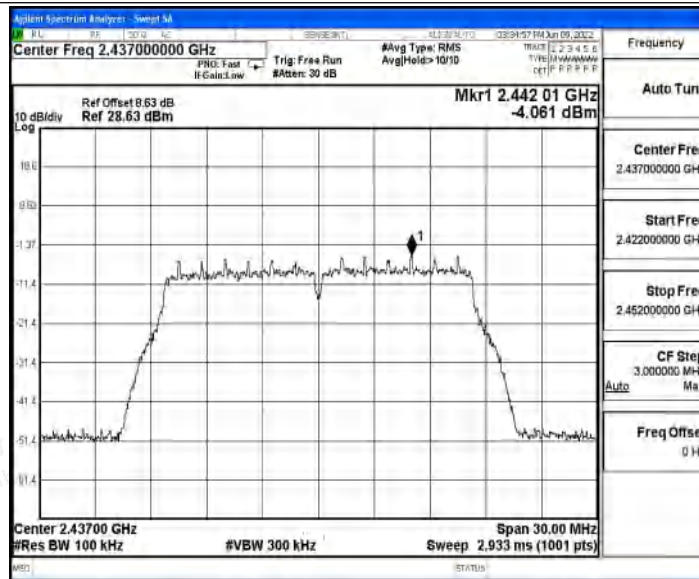


Shenzhen LCS Compliance Testing Laboratory Ltd.

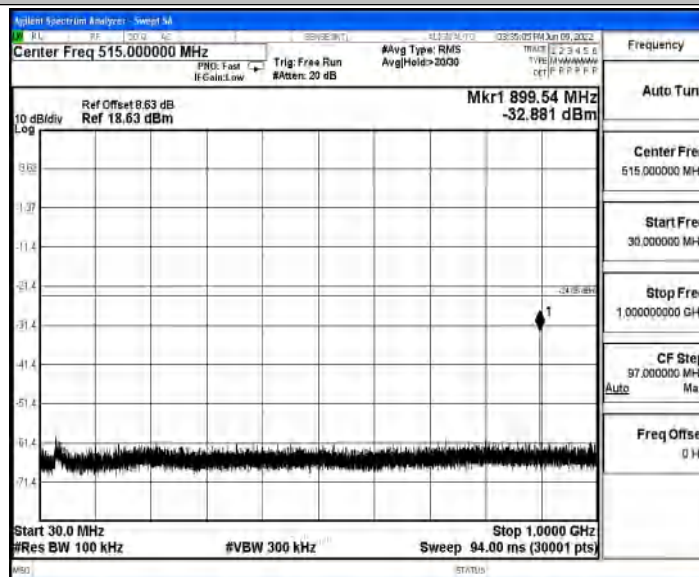
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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11G_Ant1_2437_30~1000



11G_Ant1_2437_1000~26500

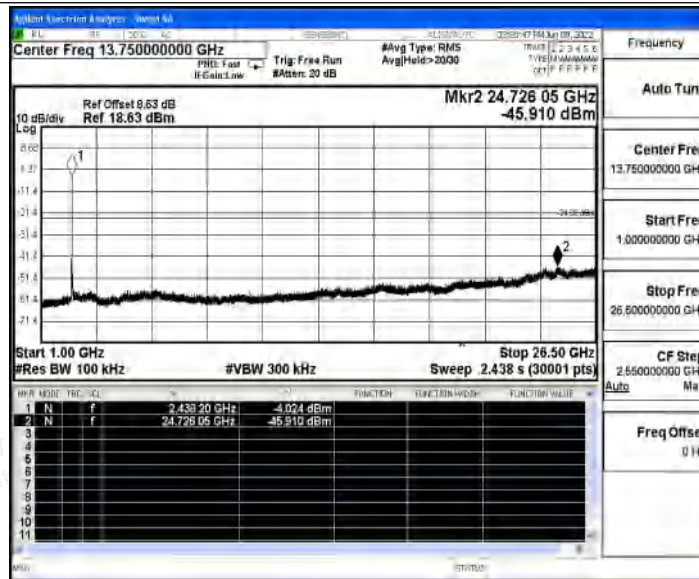


Shenzhen LCS Compliance Testing Laboratory Ltd.

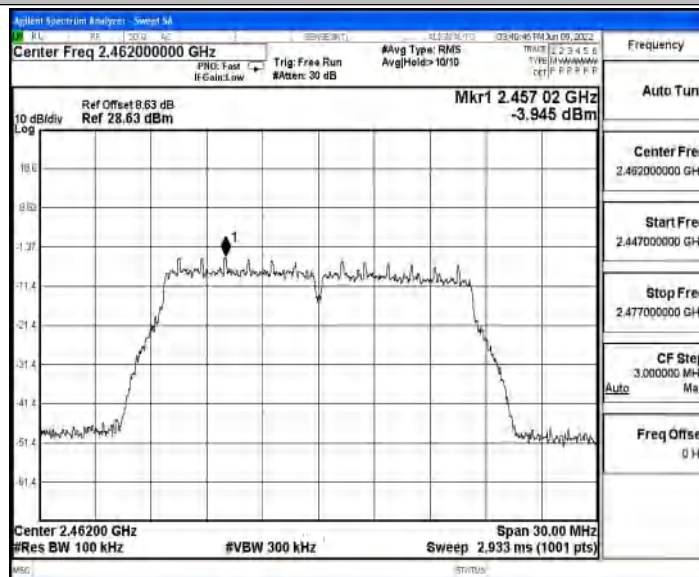
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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11G_Ant1_2462_0~Reference



11G_Ant1_2462_30~1000

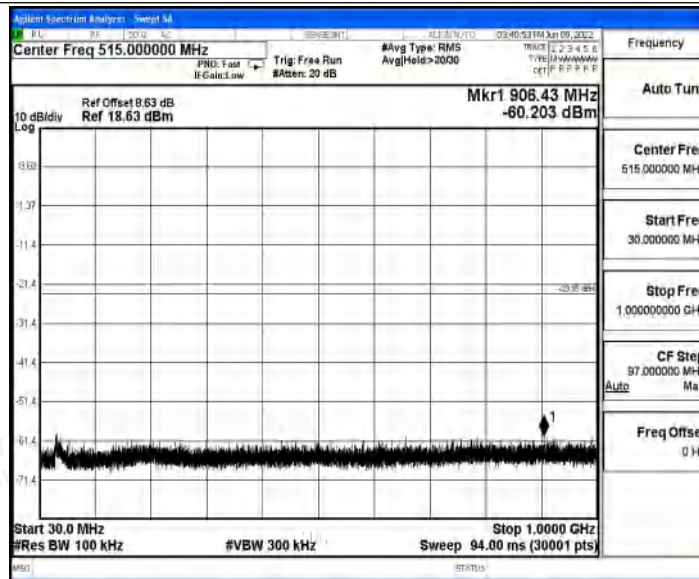


Shenzhen LCS Compliance Testing Laboratory Ltd.

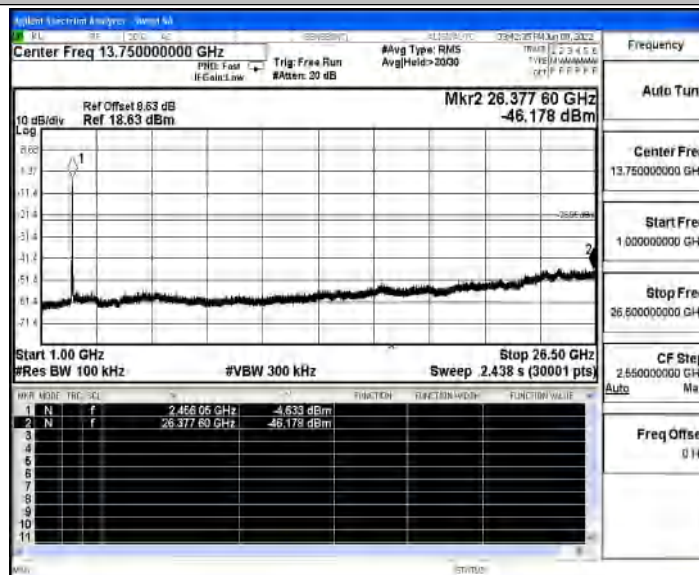
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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11G_Ant1_2462_1000~26500



11N20SISO_Ant1_2412_0~Reference

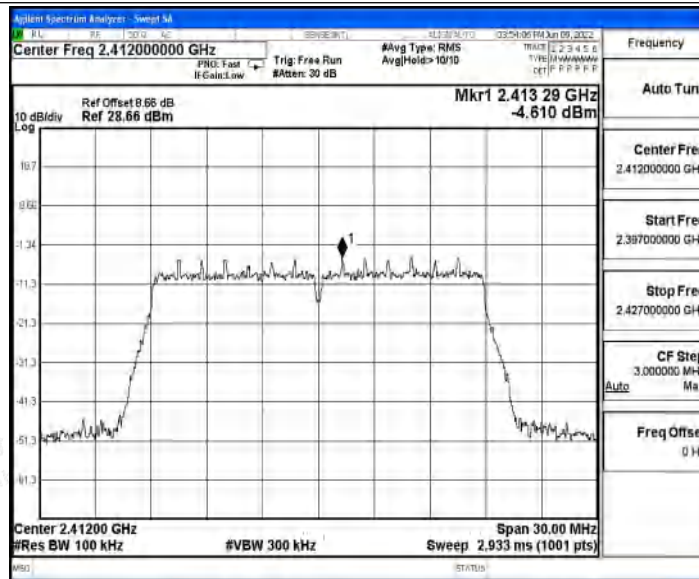


Shenzhen LCS Compliance Testing Laboratory Ltd.

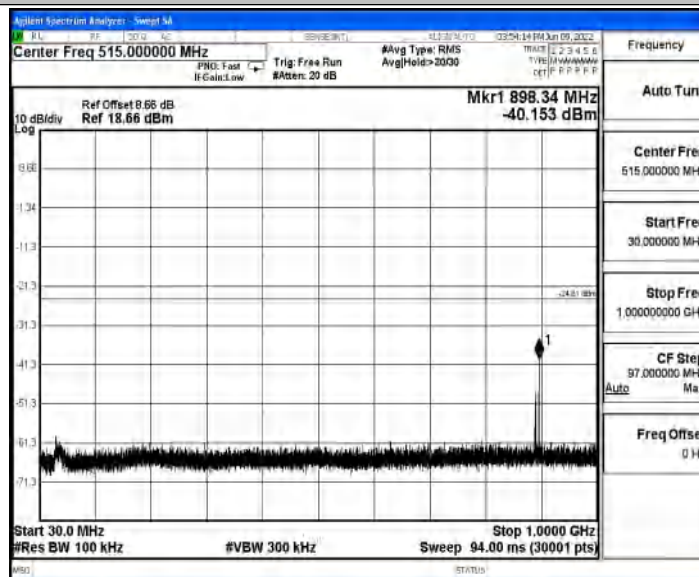
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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11N20SISO_Ant1_2412_30~1000



11N20SISO_Ant1_2412_1000~26500

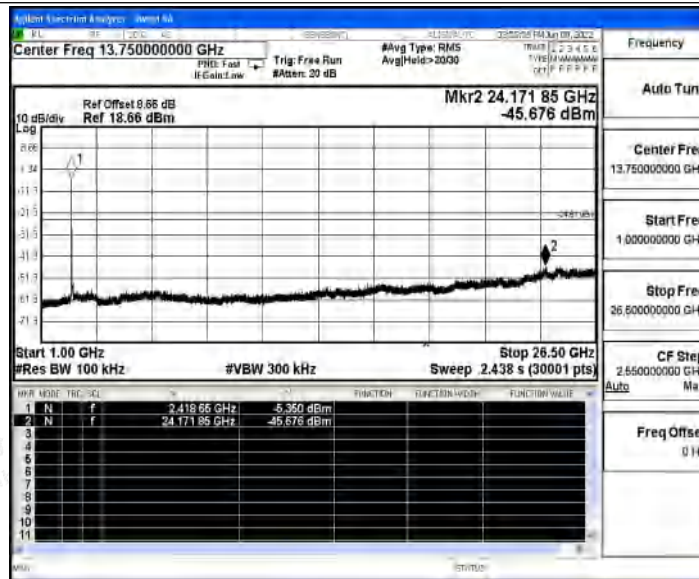


Shenzhen LCS Compliance Testing Laboratory Ltd.

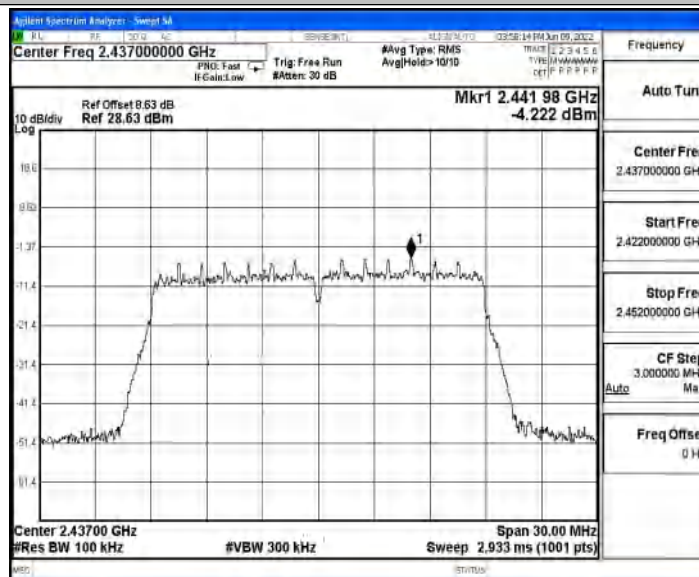
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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11N20SISO_Ant1_2437_0~Reference



11N20SISO_Ant1_2437_30~1000

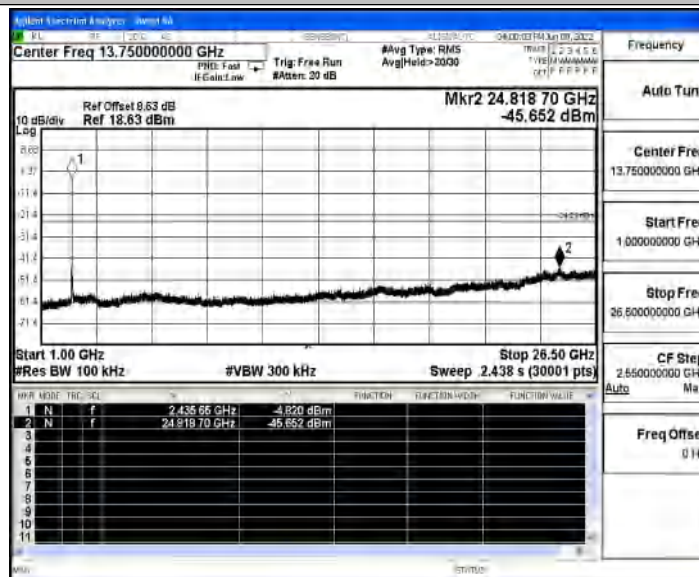
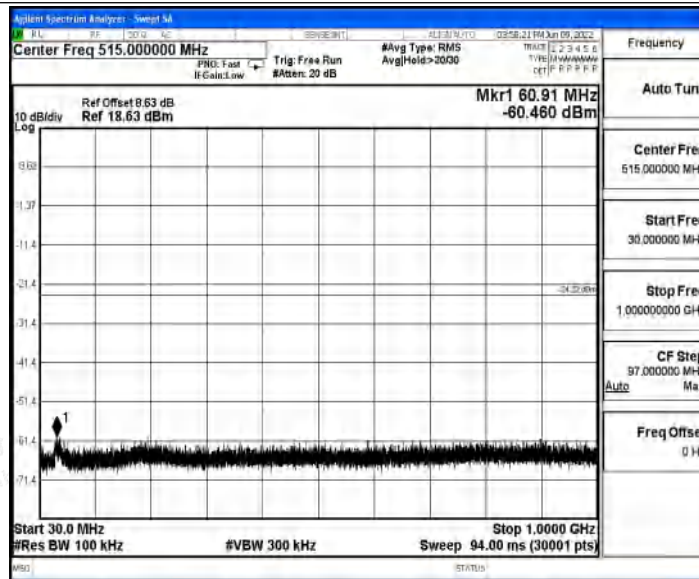


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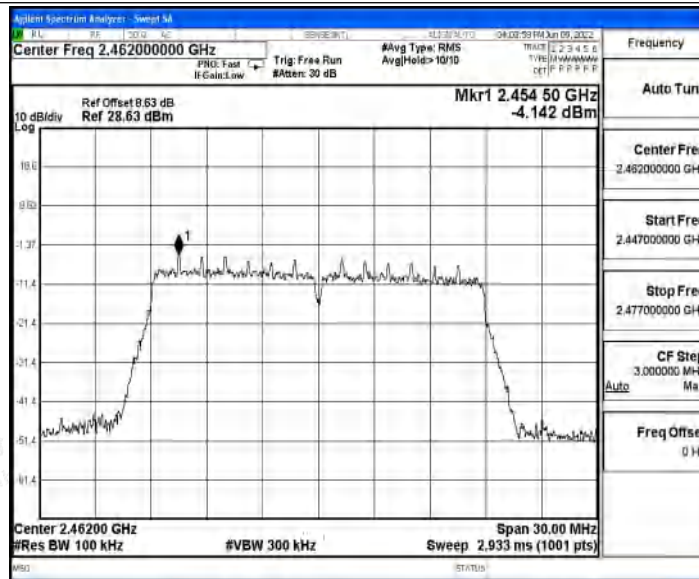


Shenzhen LCS Compliance Testing Laboratory Ltd.

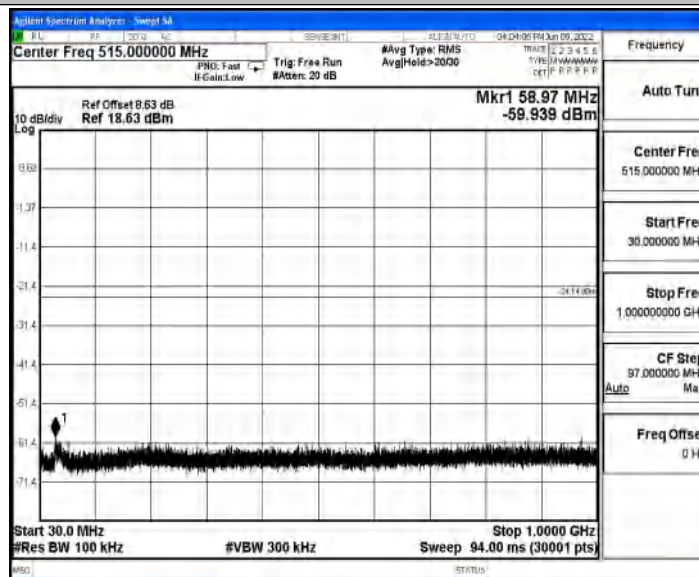
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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11N20SISO_Ant1_2462_30~1000



11N20SISO_Ant1_2462_1000~26500

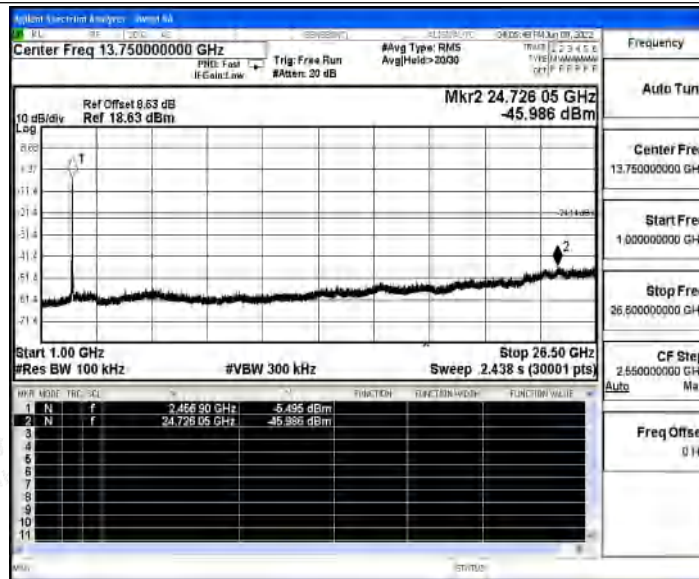


Shenzhen LCS Compliance Testing Laboratory Ltd.

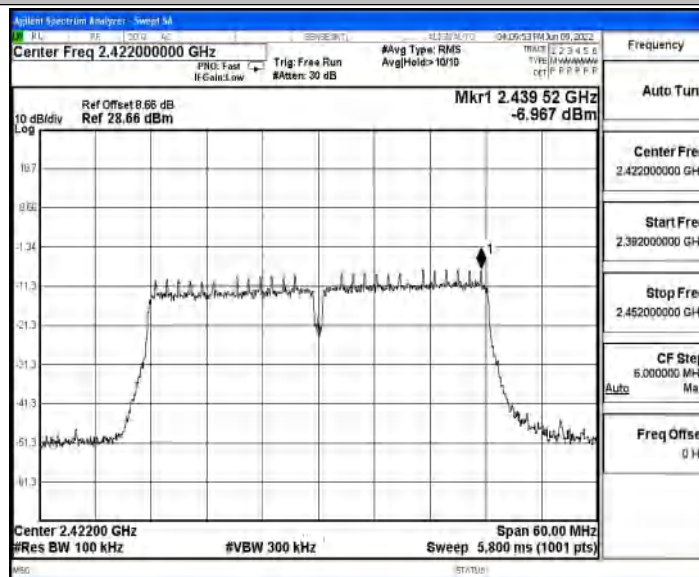
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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11N40SISO_Ant1_2422_0~Reference



11N40SISO_Ant1_2422_30~1000

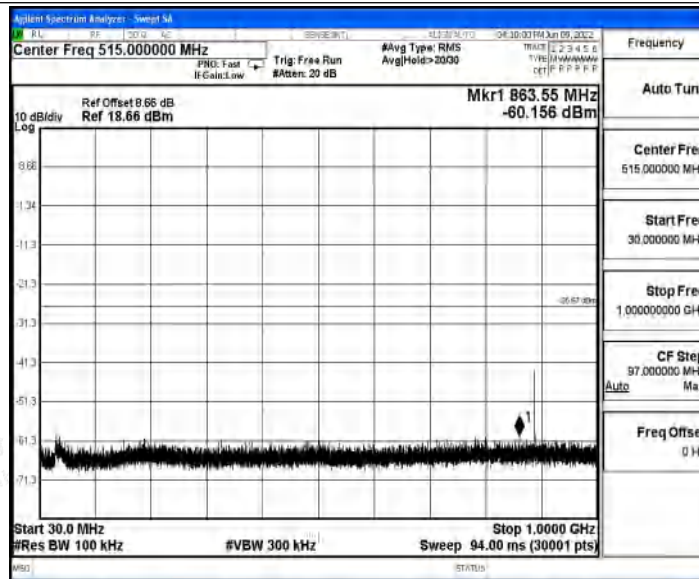


Shenzhen LCS Compliance Testing Laboratory Ltd.

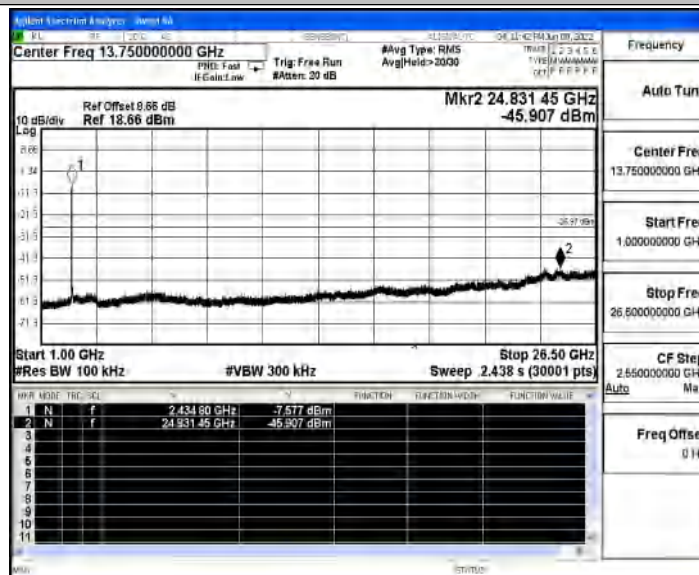
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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11N40SISO_Ant1_2422_1000~26500



11N40SISO_Ant1_2437_0~Reference

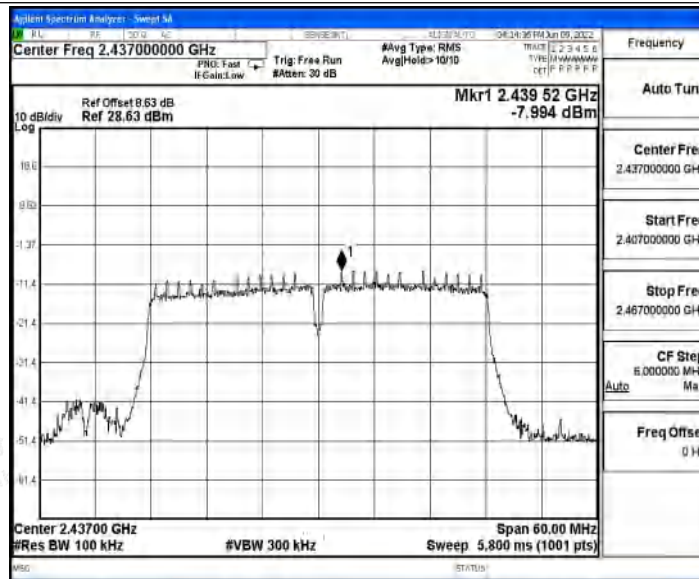


Shenzhen LCS Compliance Testing Laboratory Ltd.

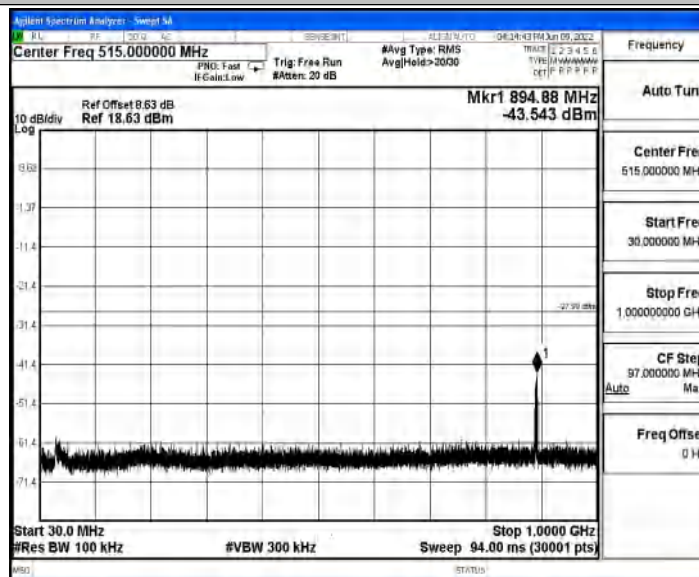
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

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11N40SISO_Ant1_2437_30~1000



11N40SISO_Ant1_2437_1000~26500

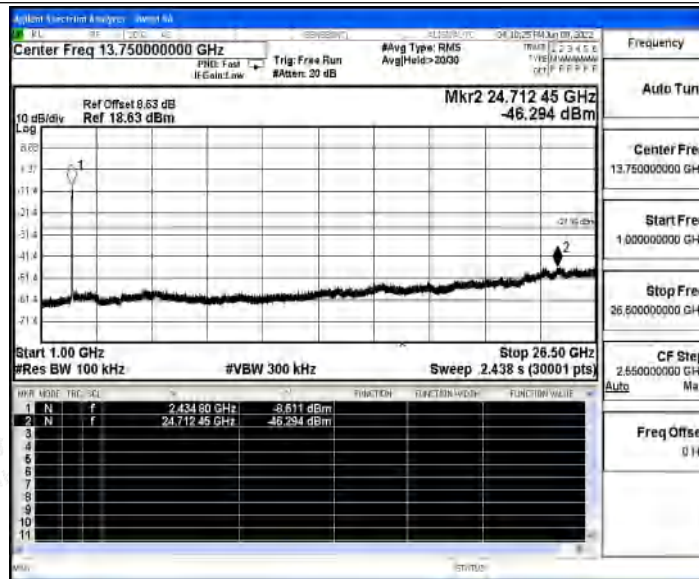


Shenzhen LCS Compliance Testing Laboratory Ltd.

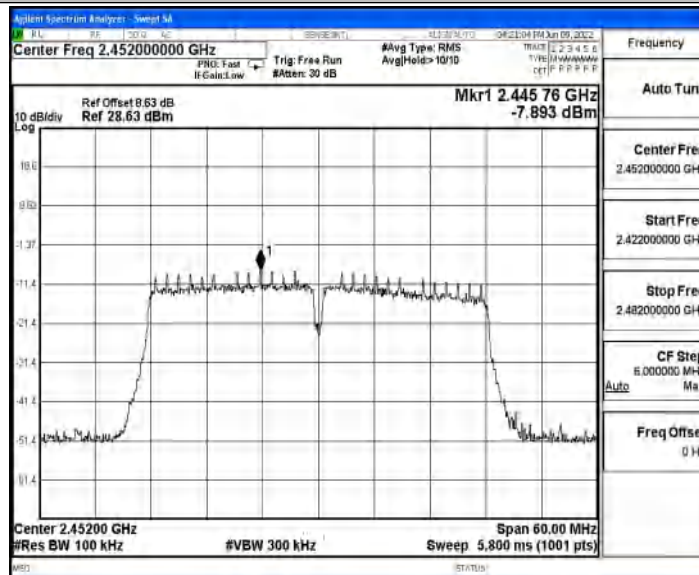
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

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11N40SISO_Ant1_2452_0~Reference



11N40SISO_Ant1_2452_30~1000

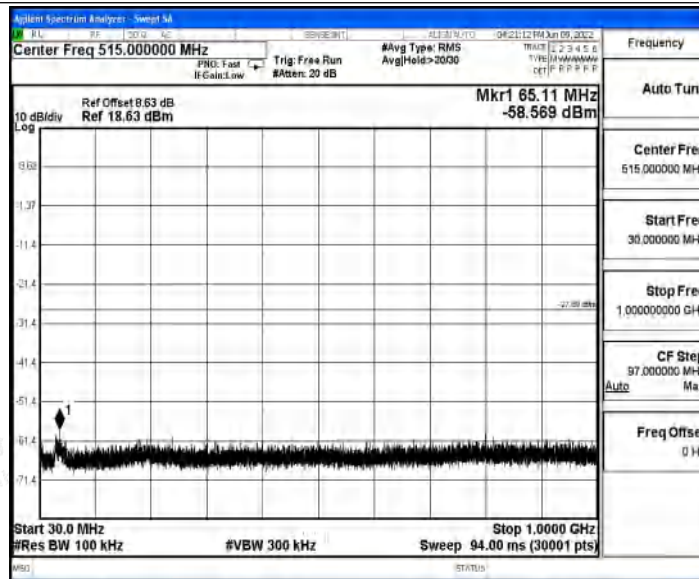


Shenzhen LCS Compliance Testing Laboratory Ltd.

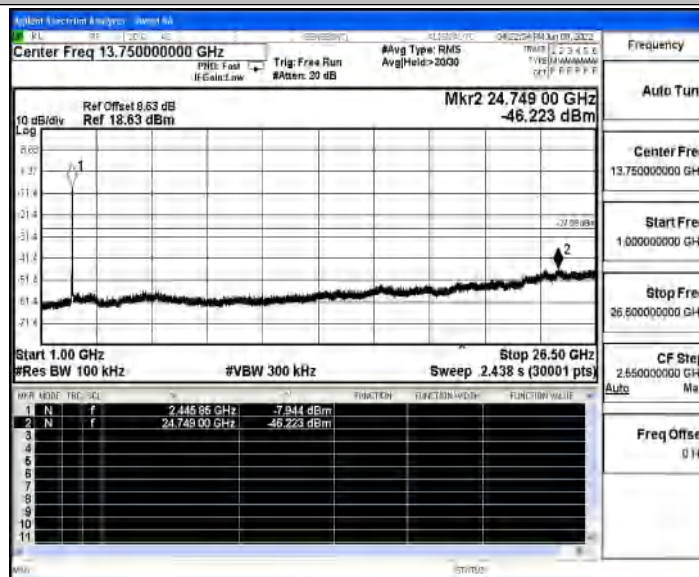
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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11N40SISO_Ant1_2452_1000~26500



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A.6 Duty Cycle

Test Result

TestMode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Limit	Verdict
11B	Ant1	2412	8.39	8.42	99.64	---	---
		2437	8.38	8.41	99.64	---	---
		2462	8.38	8.41	99.64	---	---
11G	Ant1	2412	1.39	1.43	97.20	---	---
		2437	1.39	1.43	97.20	---	---
		2462	1.39	1.43	97.20	---	---
11N20SISO	Ant1	2412	1.30	1.33	97.74	---	---
		2437	1.30	1.34	97.01	---	---
		2462	1.30	1.34	97.01	---	---
11N40SISO	Ant1	2422	0.64	0.68	94.12	---	---
		2437	0.65	0.68	95.59	---	---
		2452	0.65	0.68	95.59	---	---



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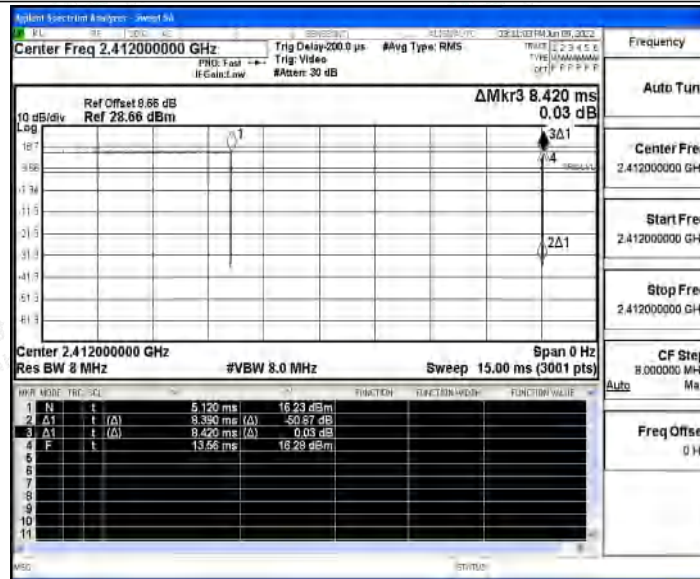
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

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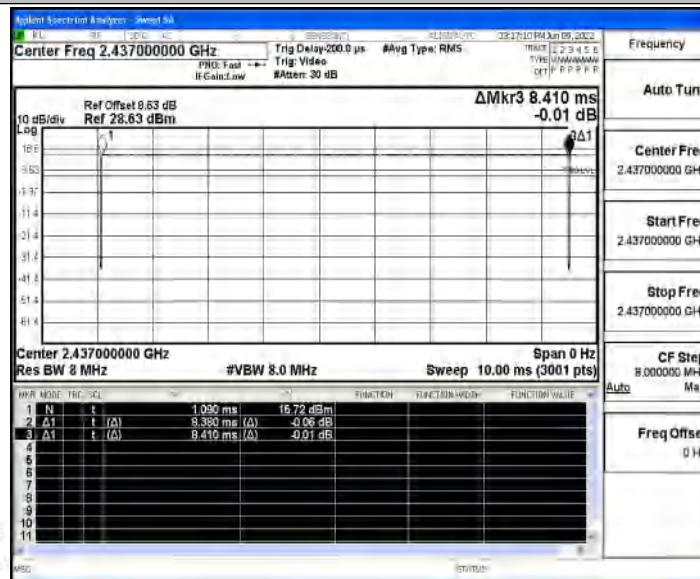


Test Graphs

11B_Ant1_2412



11B_Ant1_2437



11B_Ant1_2462

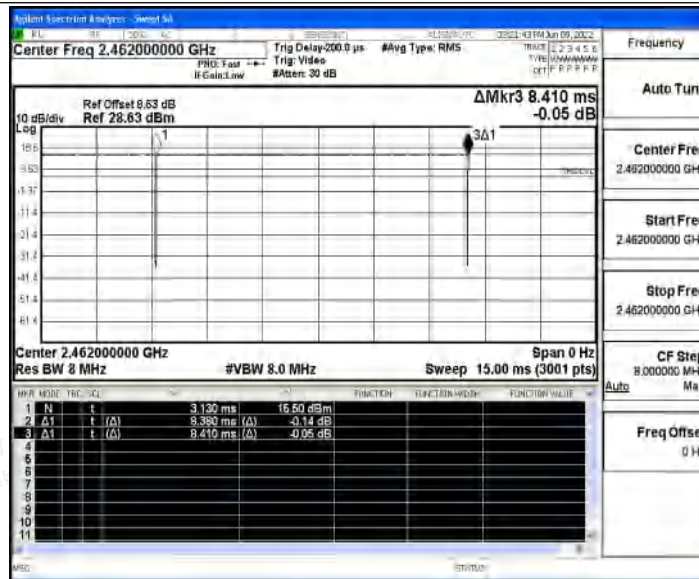


Shenzhen LCS Compliance Testing Laboratory Ltd.

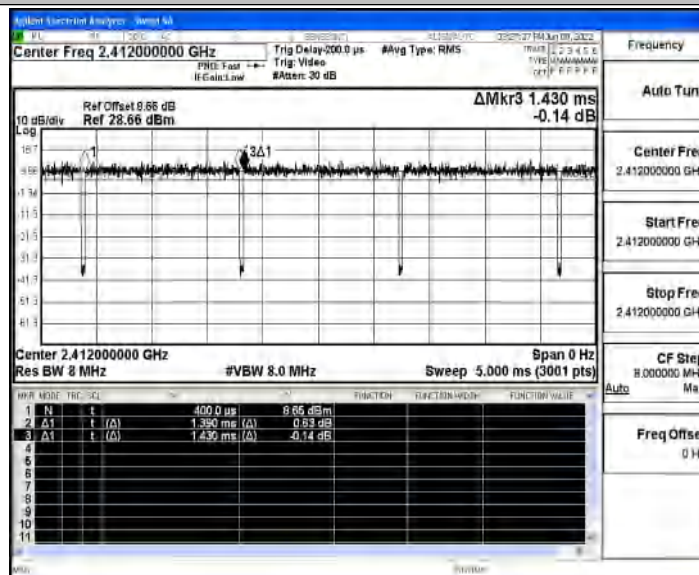
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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11G_Ant1_2412



11G_Ant1_2437

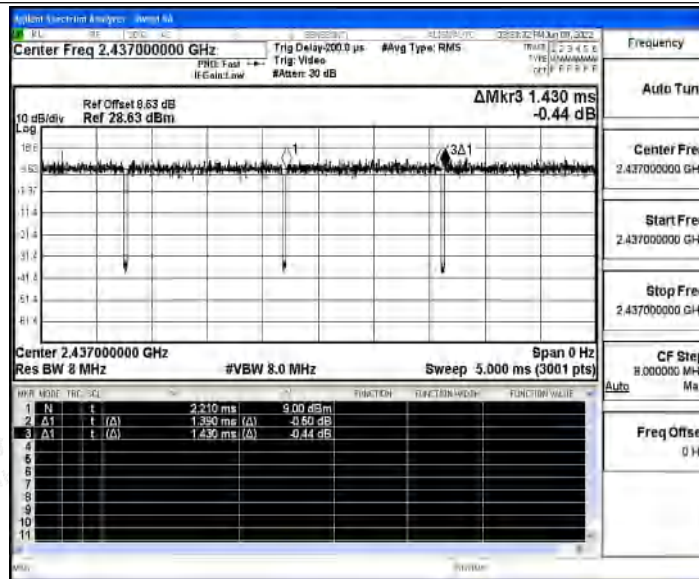


Shenzhen LCS Compliance Testing Laboratory Ltd.

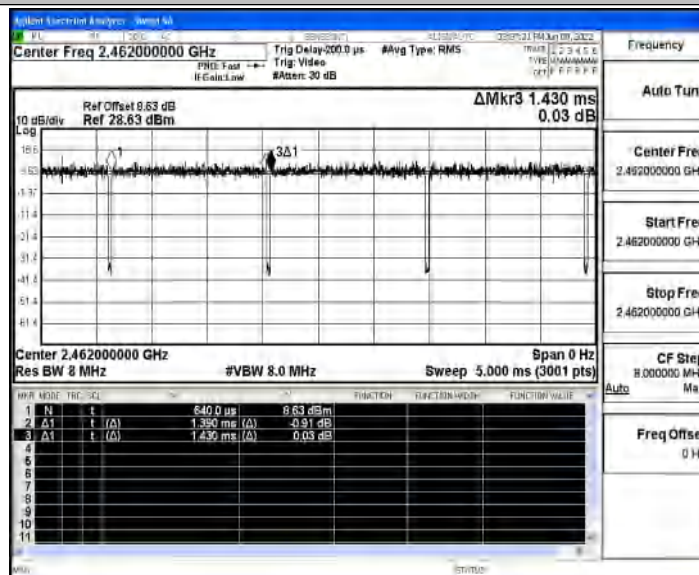
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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11G_Ant1_2462



11N20SISO_Ant1_2412

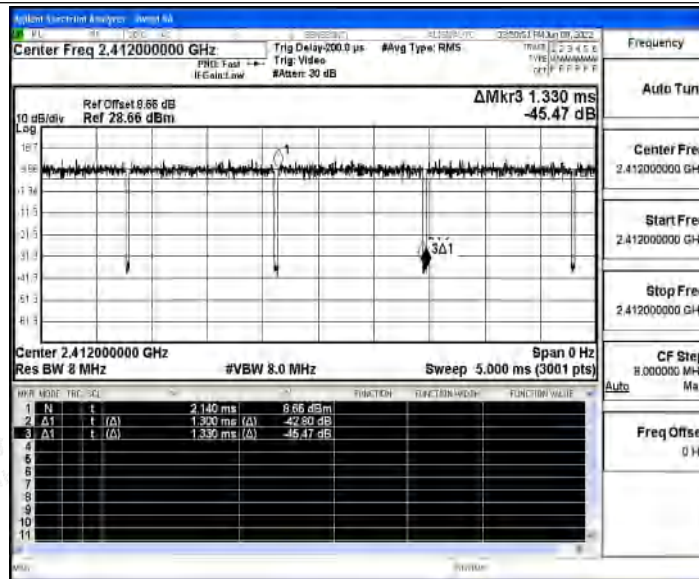


Shenzhen LCS Compliance Testing Laboratory Ltd.

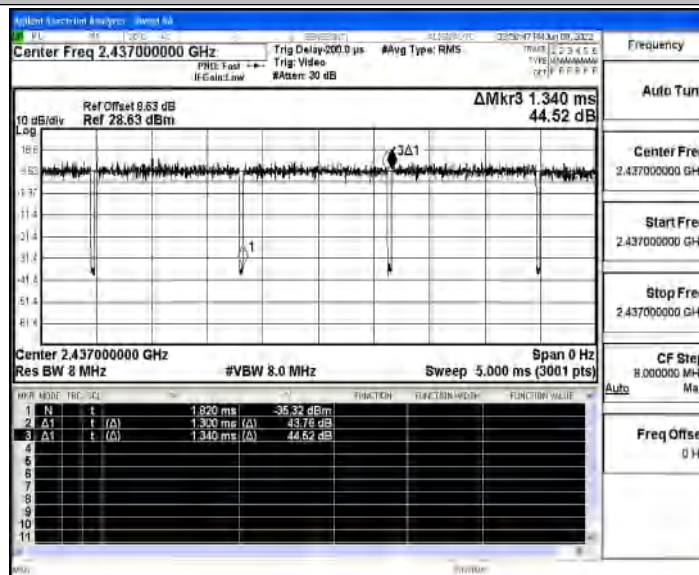
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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11N20SISO_Ant1_2437



11N20SISO_Ant1_2462

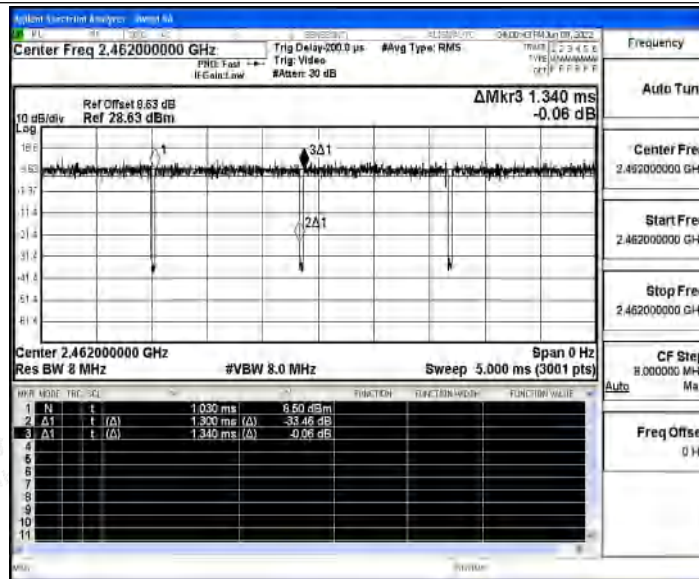


Shenzhen LCS Compliance Testing Laboratory Ltd.

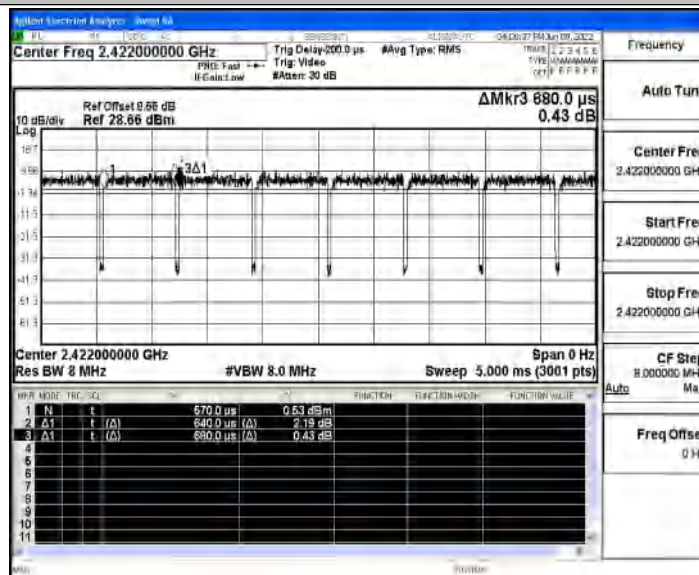
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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11N40SISO_Ant1_2422



11N40SISO_Ant1_2437

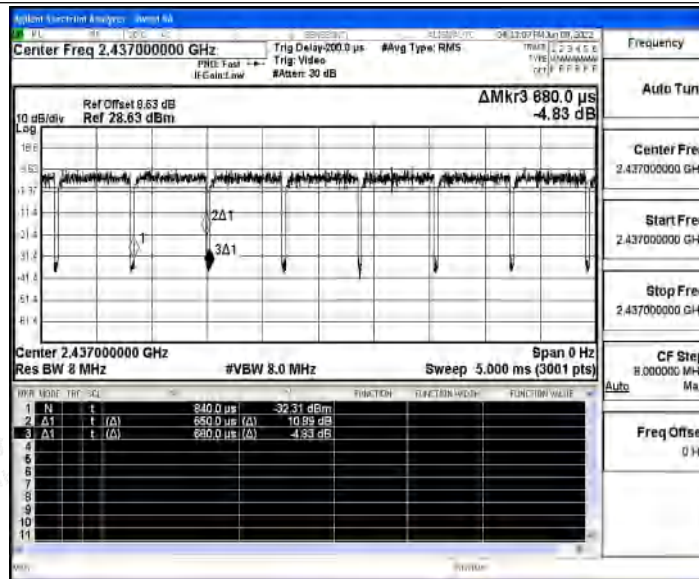


Shenzhen LCS Compliance Testing Laboratory Ltd.

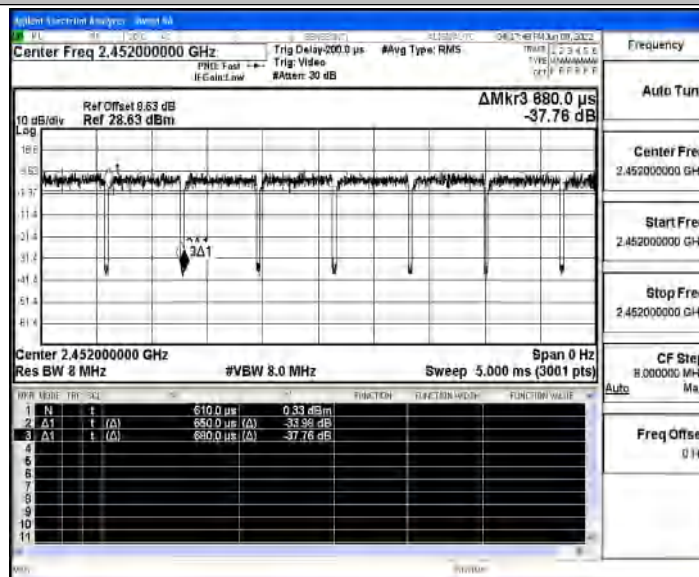
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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11N40SISO_Ant1_2452



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A.7 Emissions in Restricted Bands

Test Result

TestMode	Channel	Detector	Freq. [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
11B	2412	AV	2310.000	-58.59	≤-41.20	36.61	≤54	PASS
		AV	2389.960	-57.57	≤-41.20	37.63	≤54	PASS
		AV	2390.000	-57.57	≤-41.20	37.63	≤54	PASS
		Peak	2310.000	-48.16	≤-21.20	47.04	≤74	PASS
		Peak	2343.680	-46.07	≤-21.20	49.13	≤74	PASS
		Peak	2390.000	-46.71	≤-21.20	48.49	≤74	PASS
	2462	AV	2483.500	-55.08	≤-41.20	40.12	≤54	PASS
		AV	2487.850	-50.38	≤-41.20	44.82	≤54	PASS
		AV	2500.000	-57.61	≤-41.20	37.59	≤54	PASS
		Peak	2483.500	-43.87	≤-21.20	51.33	≤74	PASS
		Peak	2487.850	-42.05	≤-21.20	53.15	≤74	PASS
		Peak	2500.000	-47.23	≤-21.20	47.97	≤74	PASS
11G	2412	AV	2310.000	-58.14	≤-41.20	37.06	≤54	PASS
		AV	2389.440	-56.17	≤-41.20	39.03	≤54	PASS
		AV	2390.000	-56.99	≤-41.20	38.21	≤54	PASS
		Peak	2310.000	-47.6	≤-21.20	47.60	≤74	PASS
		Peak	2366.820	-46	≤-21.20	49.20	≤74	PASS
		Peak	2390.000	-46.96	≤-21.20	48.24	≤74	PASS
	2462	AV	2483.500	-53.62	≤-41.20	41.58	≤54	PASS
		AV	2487.960	-48.44	≤-41.20	46.76	≤54	PASS
		AV	2500.000	-57.15	≤-41.20	38.05	≤54	PASS
		Peak	2483.500	-42.6	≤-21.20	52.60	≤74	PASS
		Peak	2487.520	-40.63	≤-21.20	54.57	≤74	PASS
		Peak	2500.000	-46.82	≤-21.20	48.38	≤74	PASS
11N20 SISO	2412	AV	2310.000	-58.28	≤-41.20	36.92	≤54	PASS
		AV	2389.570	-56.83	≤-41.20	38.37	≤54	PASS
		AV	2390.000	-57.07	≤-41.20	38.13	≤54	PASS
		Peak	2310.000	-48.23	≤-21.20	46.97	≤74	PASS
		Peak	2325.350	-45.42	≤-21.20	49.78	≤74	PASS
		Peak	2390.000	-46.2	≤-21.20	49.00	≤74	PASS
	2462	AV	2483.500	-53.58	≤-41.20	41.62	≤54	PASS
		AV	2488.070	-48.44	≤-41.20	46.76	≤54	PASS
		AV	2500.000	-57.21	≤-41.20	37.99	≤54	PASS
		Peak	2483.500	-42.64	≤-21.20	52.56	≤74	PASS
		Peak	2487.740	-40.46	≤-21.20	54.74	≤74	PASS
		Peak	2500.000	-46.25	≤-21.20	48.95	≤74	PASS



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11N40 SISO	2422	AV	2310.000	-57.79	≤ -41.20	37.41	≤ 54	PASS
		AV	2389.960	-56.8	≤ -41.20	38.40	≤ 54	PASS
		AV	2390.000	-56.8	≤ -41.20	38.40	≤ 54	PASS
		Peak	2310.000	-48.59	≤ -21.20	46.61	≤ 74	PASS
		Peak	2388.530	-45.16	≤ -21.20	50.04	≤ 74	PASS
		Peak	2390.000	-46.62	≤ -21.20	48.58	≤ 74	PASS
	2452	AV	2483.500	-54.5	≤ -41.20	40.70	≤ 54	PASS
		AV	2484.660	-54.17	≤ -41.20	41.03	≤ 54	PASS
		AV	2500.000	-57.06	≤ -41.20	38.14	≤ 54	PASS
		Peak	2483.500	-37.9	≤ -21.20	57.30	≤ 74	PASS
		Peak	2483.670	-37.72	≤ -21.20	57.48	≤ 74	PASS
		Peak	2500.000	-46.59	≤ -21.20	48.61	≤ 74	PASS

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.



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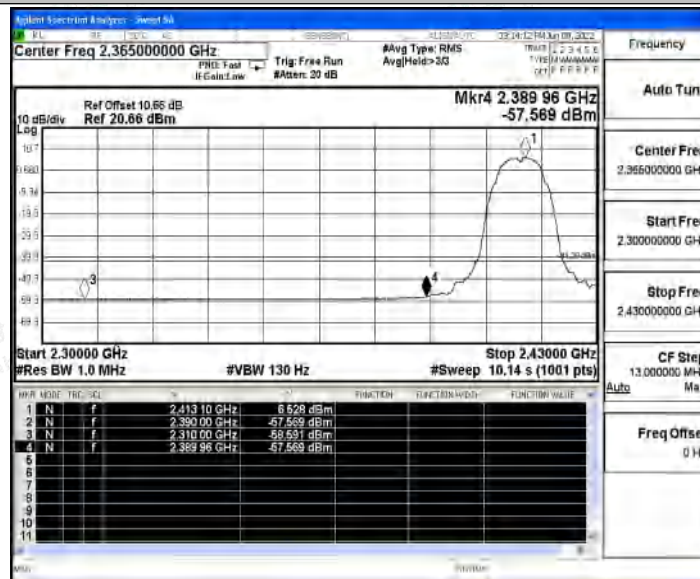
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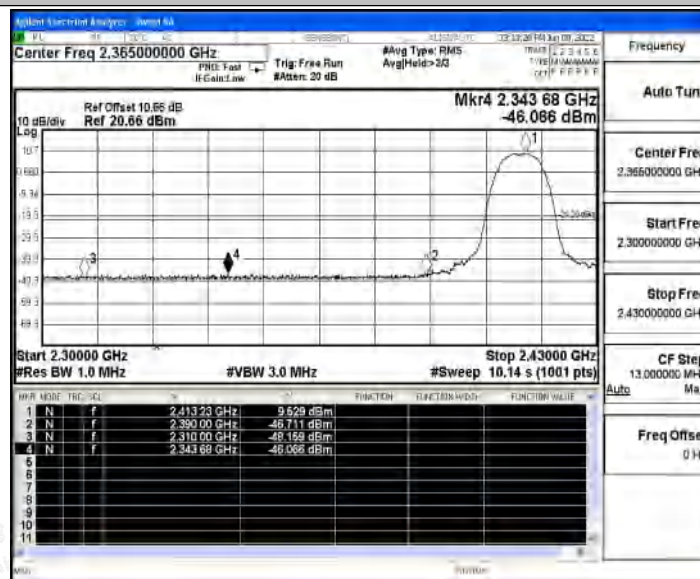


Test Graphs

11B_Ant1_Low_2412_AV



11B_Ant1_Low_2412_Peak



11B_Ant1_High_2462_AV

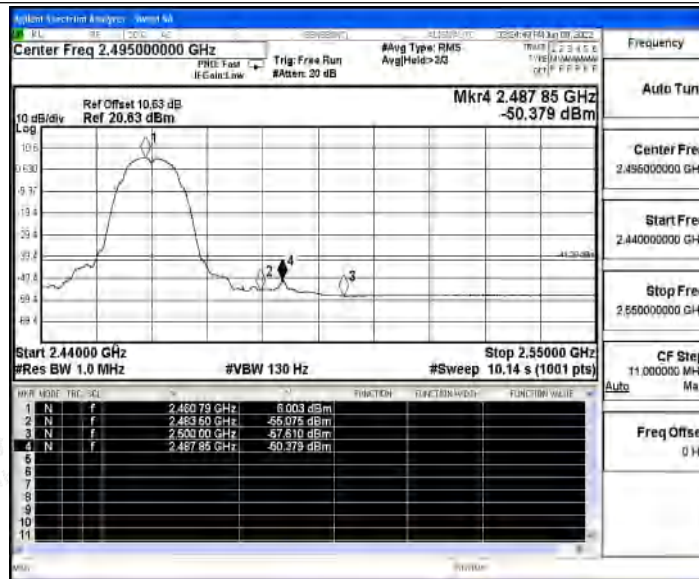


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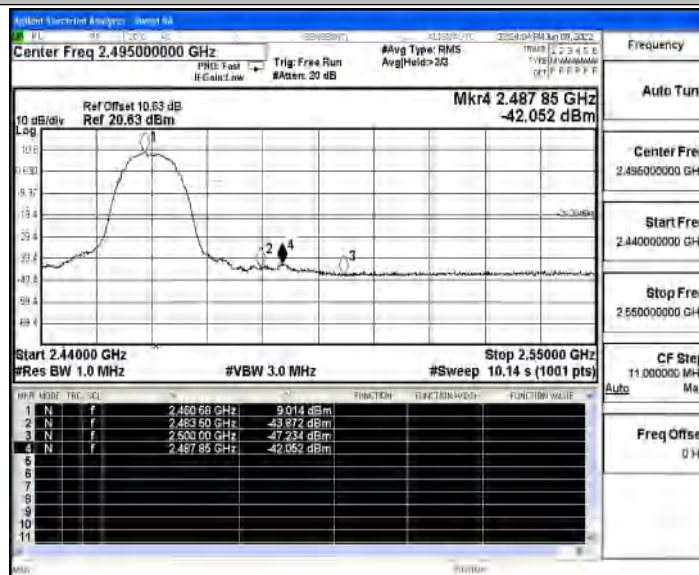
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11B_Ant1_High_2462_Peak



11G_Ant1_Low_2412_AV

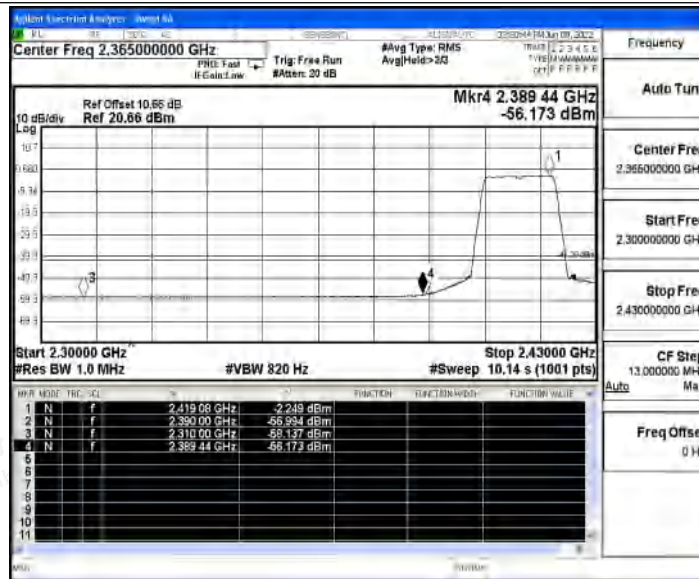


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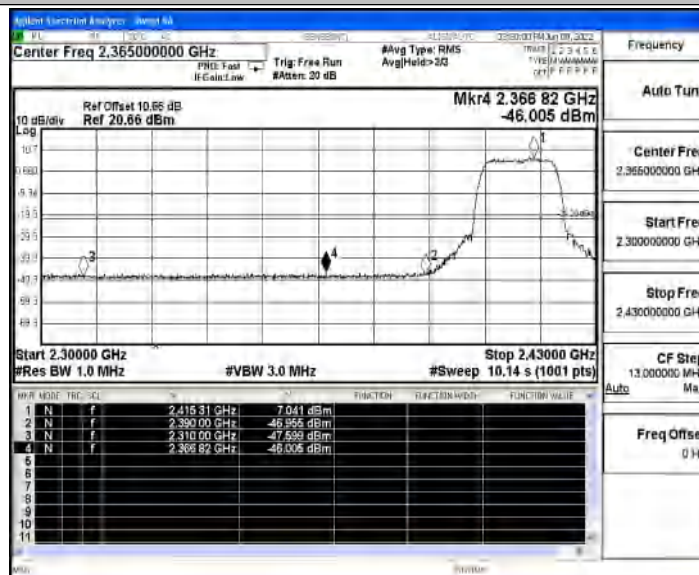
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11G_Ant1_Low_2412_Peak



11G_Ant1_High_2462_AV

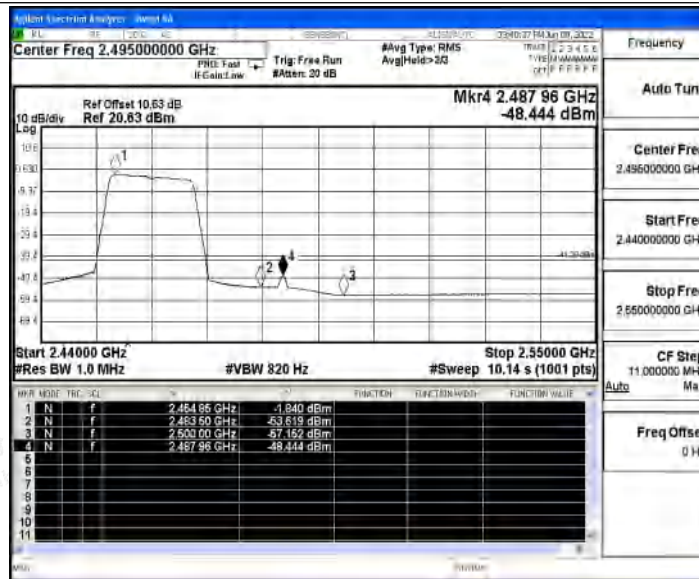


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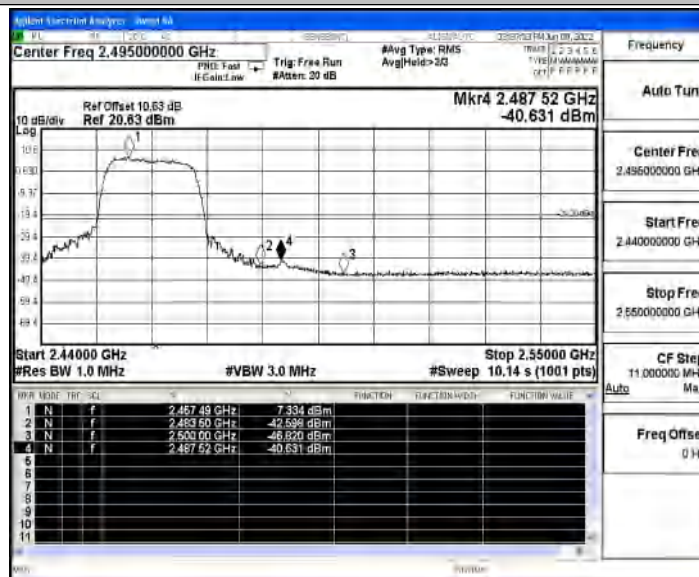
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11G_Ant1_High_2462_Peak



11N20SISO_Ant1_Low_2412_AV

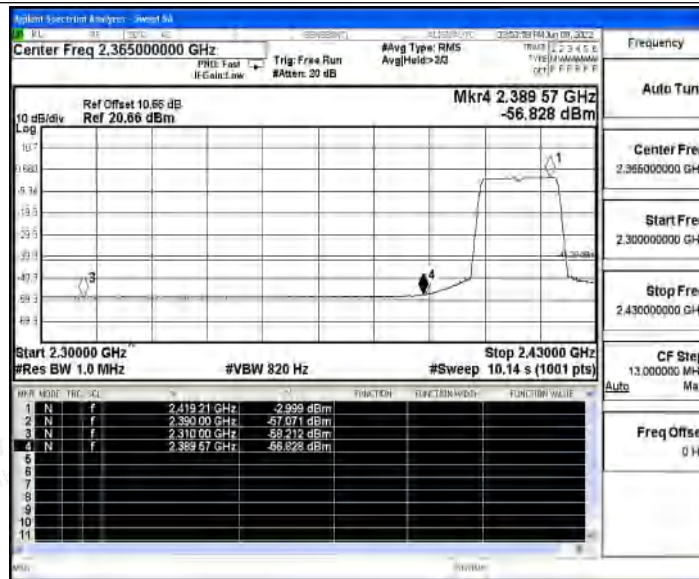


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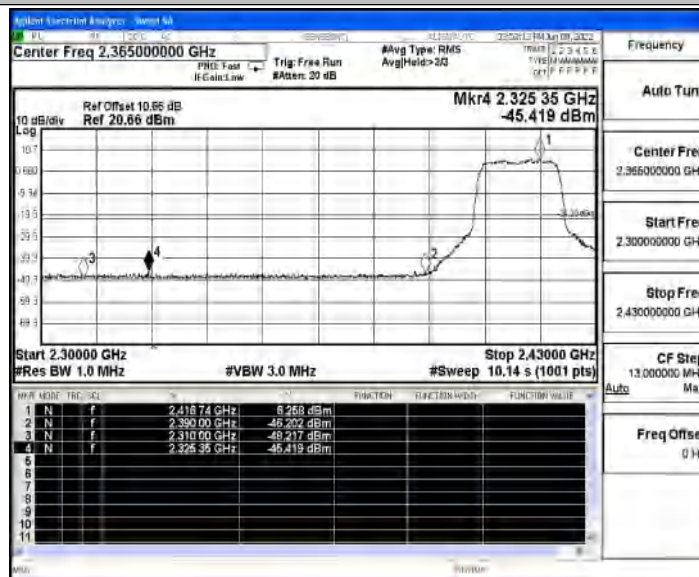
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11N20SISO_Ant1_Low_2412_Peak



11N20SISO_Ant1_High_2462_AV

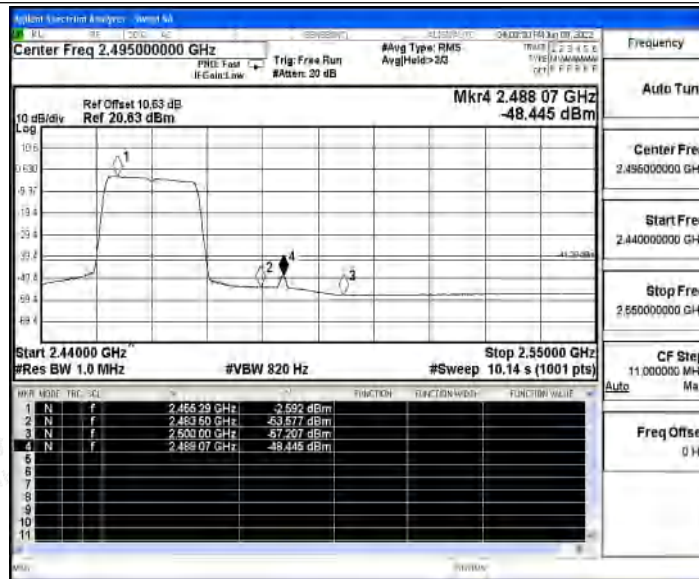


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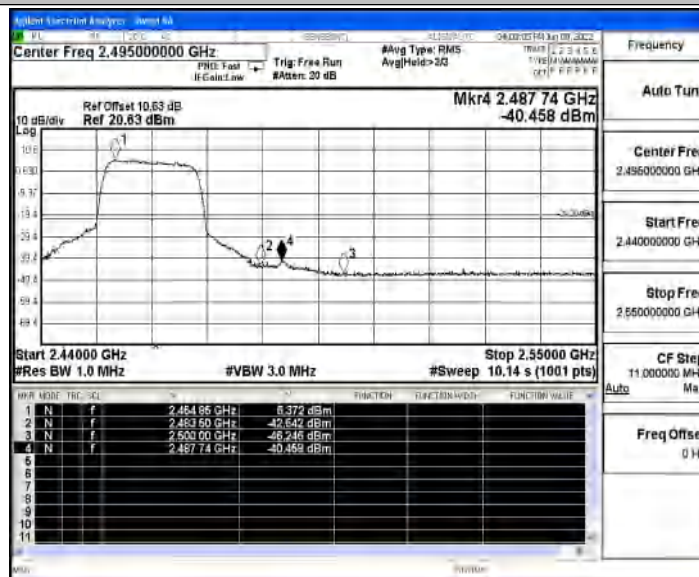
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11N20ISO_Ant1_High_2462_Peak



11N40ISO_Ant1_Low_2422_AV

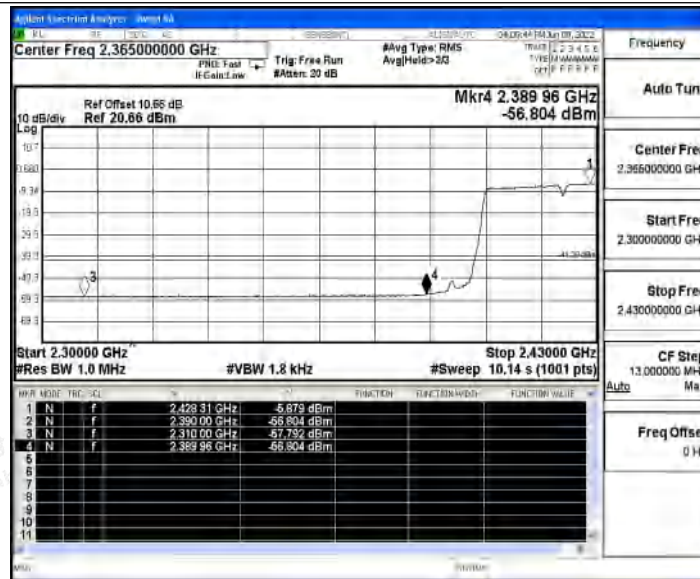


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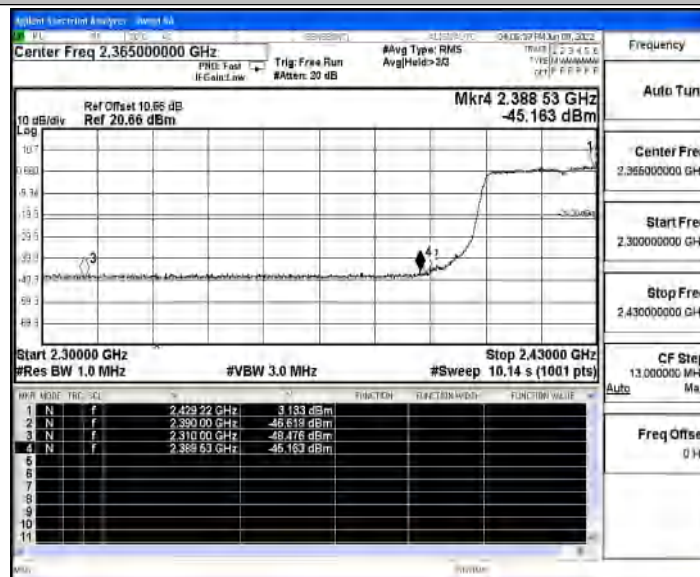
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11N40SISO_Ant1_Low_2422_Peak



11N40SISO_Ant1_High_2452_AV

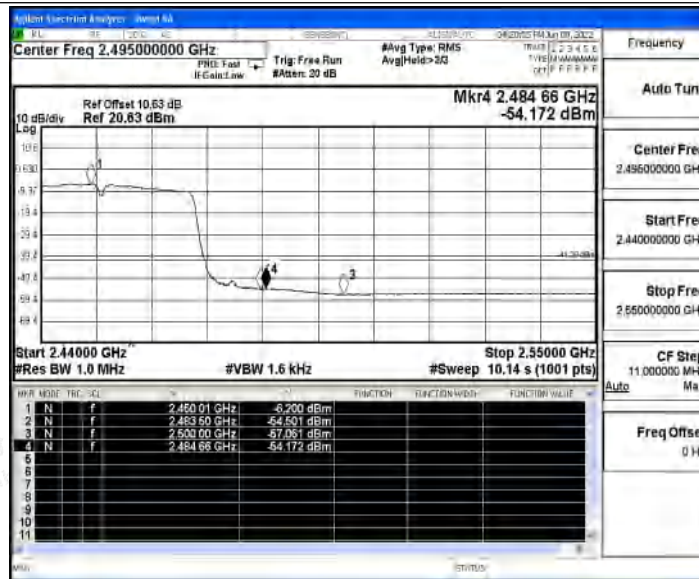


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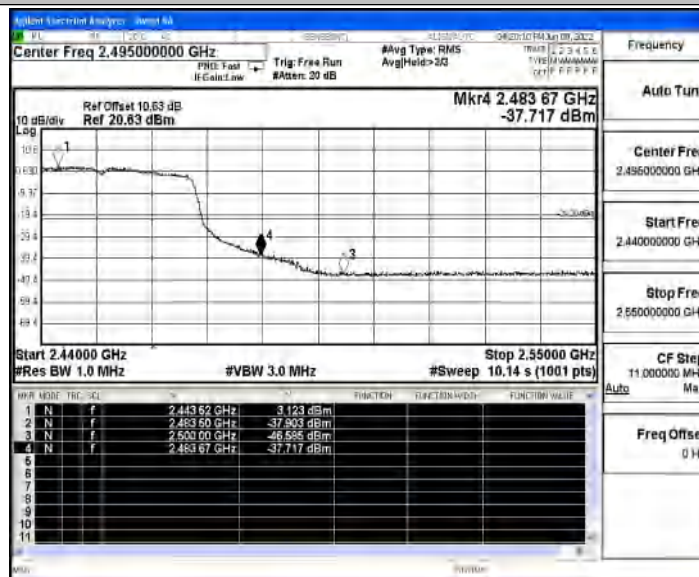
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11N40SISO_Ant1_High_2452_Peak



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