



Appendix C

RF Test Data for 2.4GWIFI (Conducted Measurement)

Product Name: OWL Camera

Test Model: OWL 1

Environmental Conditions

Temperature:	24.2°C
Relative Humidity:	56.9%
ATM Pressure:	100.0 kPa
Test Engineer:	Jerry Chu
Supervised by:	Can Kun





C.1 -6dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	b	2412	Ant0	10.17	0.5	Pass
NVNT	b	2437	Ant0	10.18	0.5	Pass
NVNT	b	2462	Ant0	10.18	0.5	Pass
NVNT	g	2412	Ant0	16.29	0.5	Pass
NVNT	g	2437	Ant0	16.28	0.5	Pass
NVNT	g	2462	Ant0	16.35	0.5	Pass
NVNT	n20	2412	Ant0	17.23	0.5	Pass
NVNT	n20	2437	Ant0	17.23	0.5	Pass
NVNT	n20	2462	Ant0	17.2	0.5	Pass
NVNT	n40	2422	Ant0	36.2	0.5	Pass
NVNT	n40	2437	Ant0	36.15	0.5	Pass
NVNT	n40	2452	Ant0	36.32	0.5	Pass

Note: offset=System attenuation +cabel loss

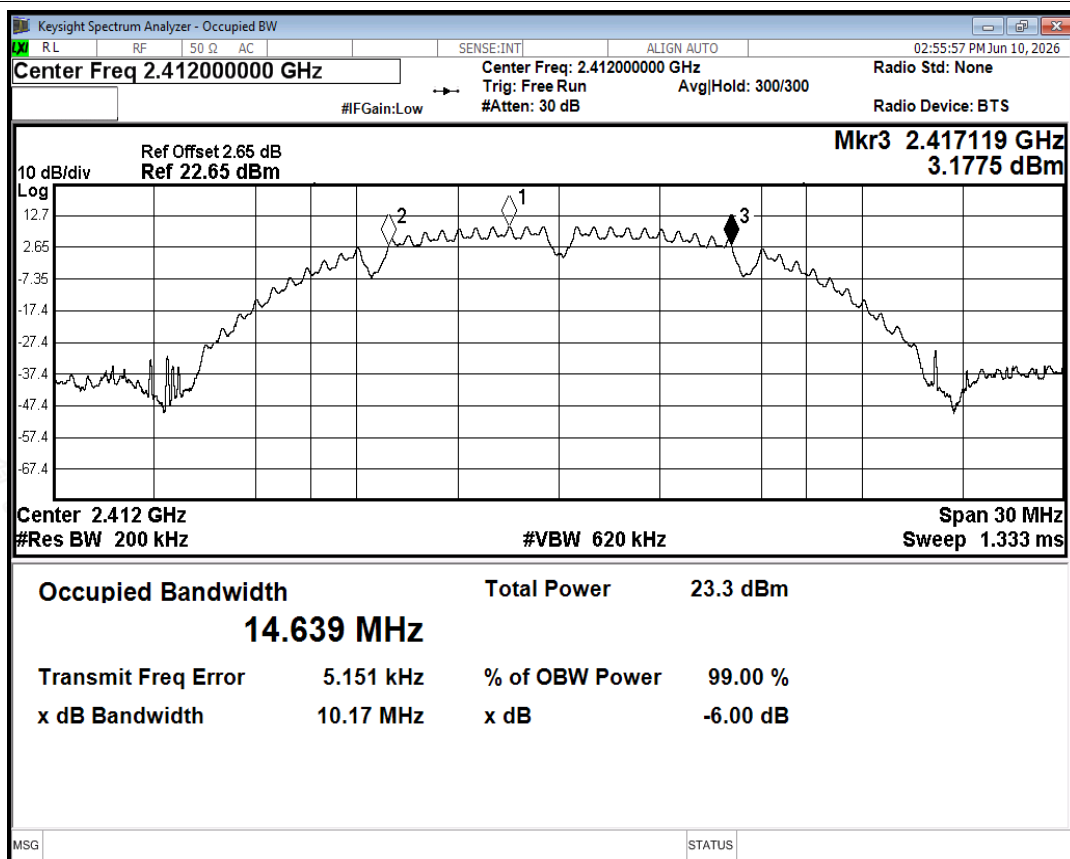


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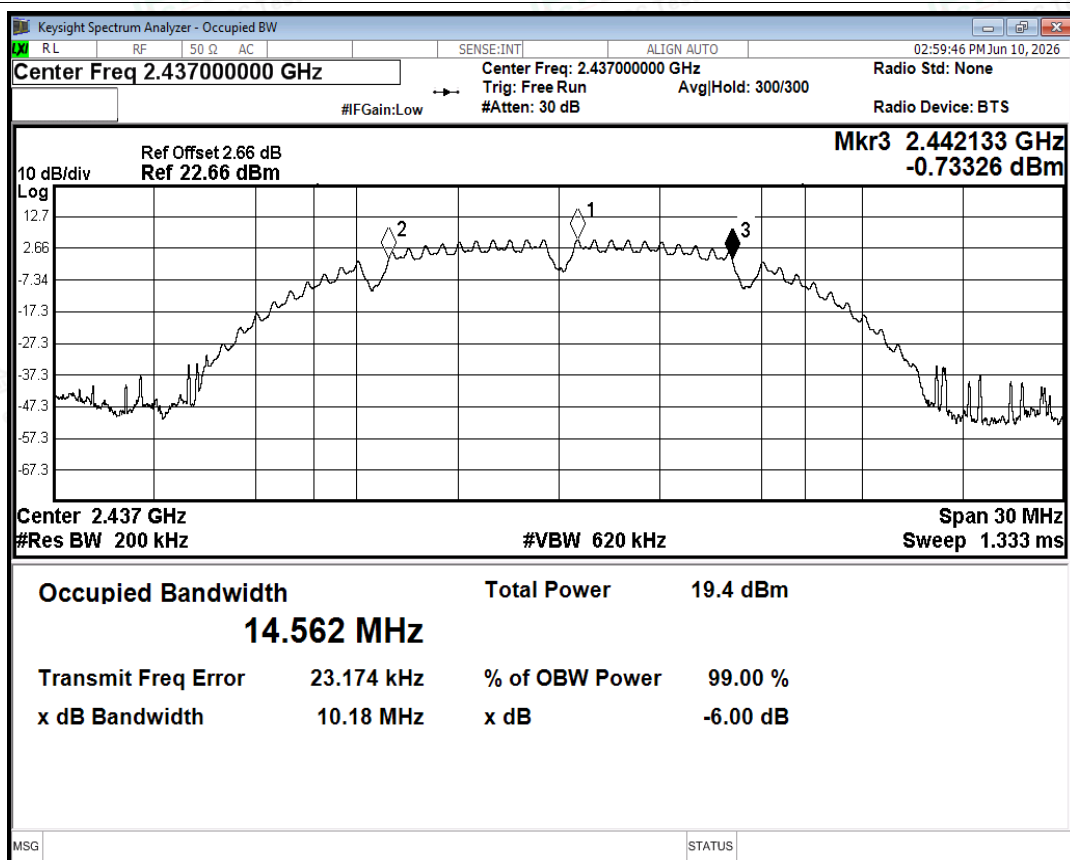
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-6dB Bandwidth NVNT b 2412MHz Ant0



-6dB Bandwidth NVNT b 2437MHz Ant0

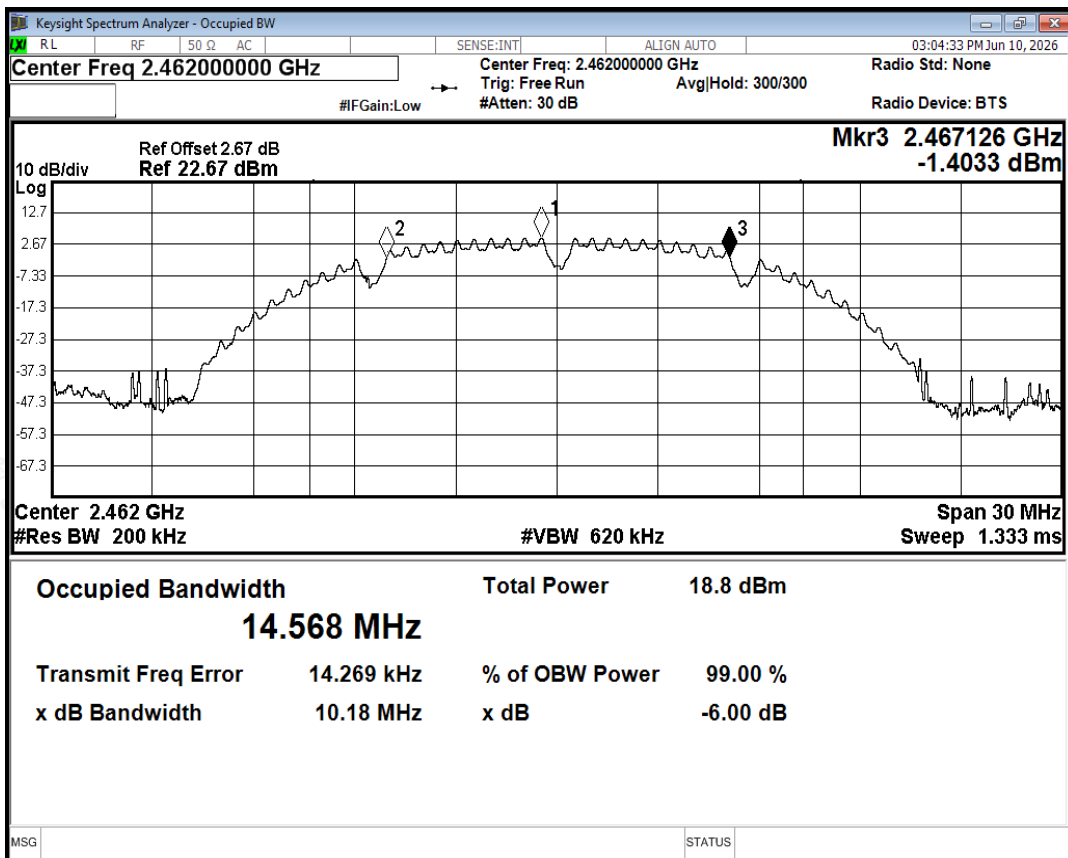


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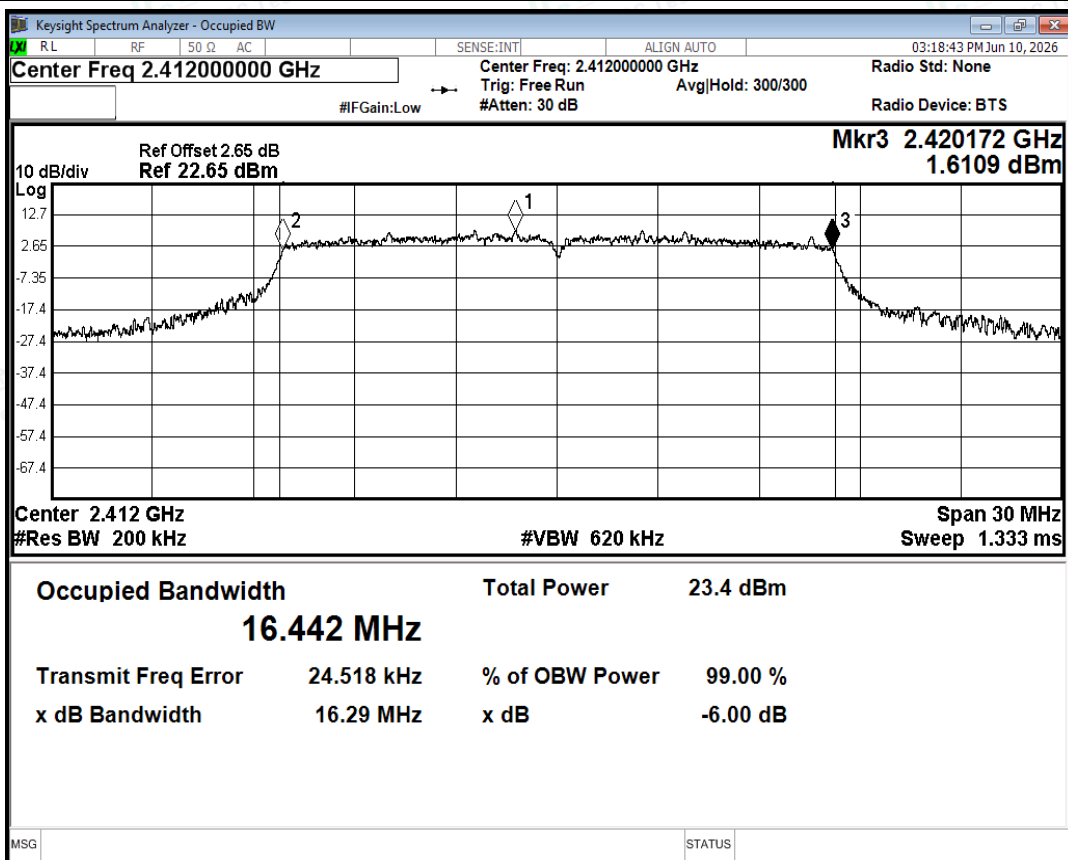
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-6dB Bandwidth NVNT b 2462MHz Ant0



-6dB Bandwidth NVNT g 2412MHz Ant0

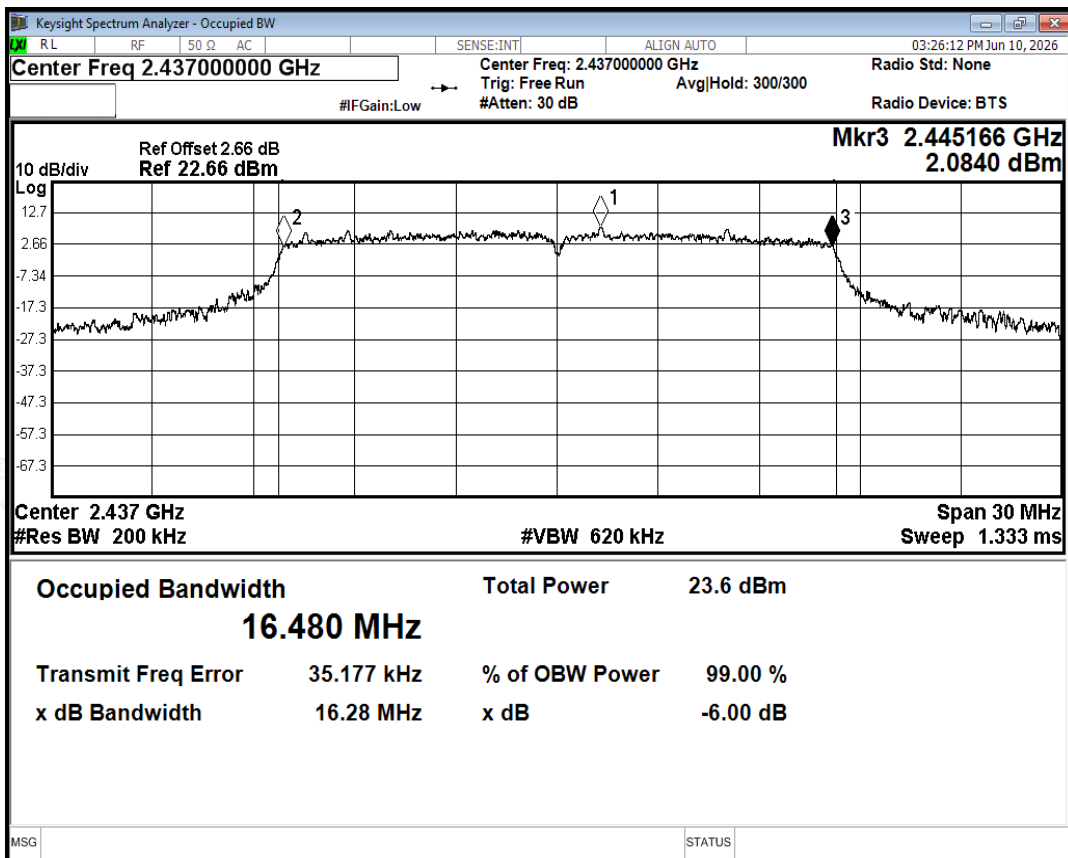


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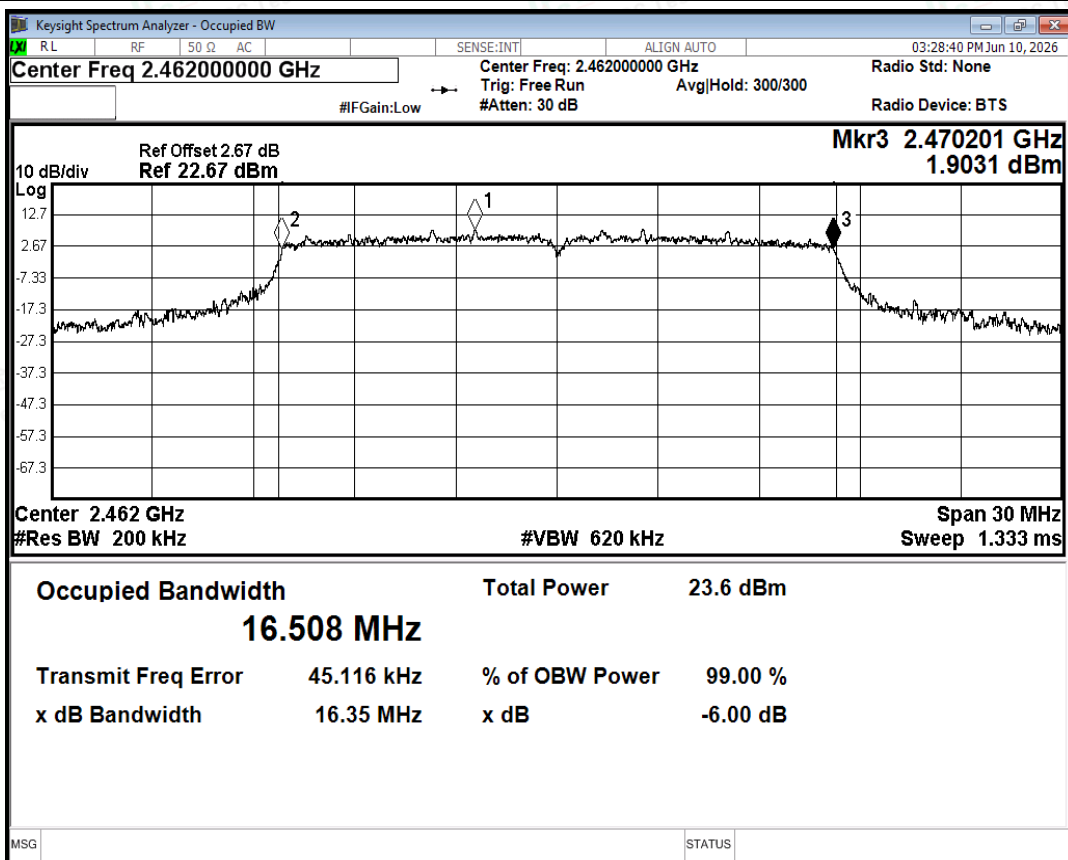
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-6dB Bandwidth NVNT g 2437MHz Ant0



-6dB Bandwidth NVNT g 2462MHz Ant0

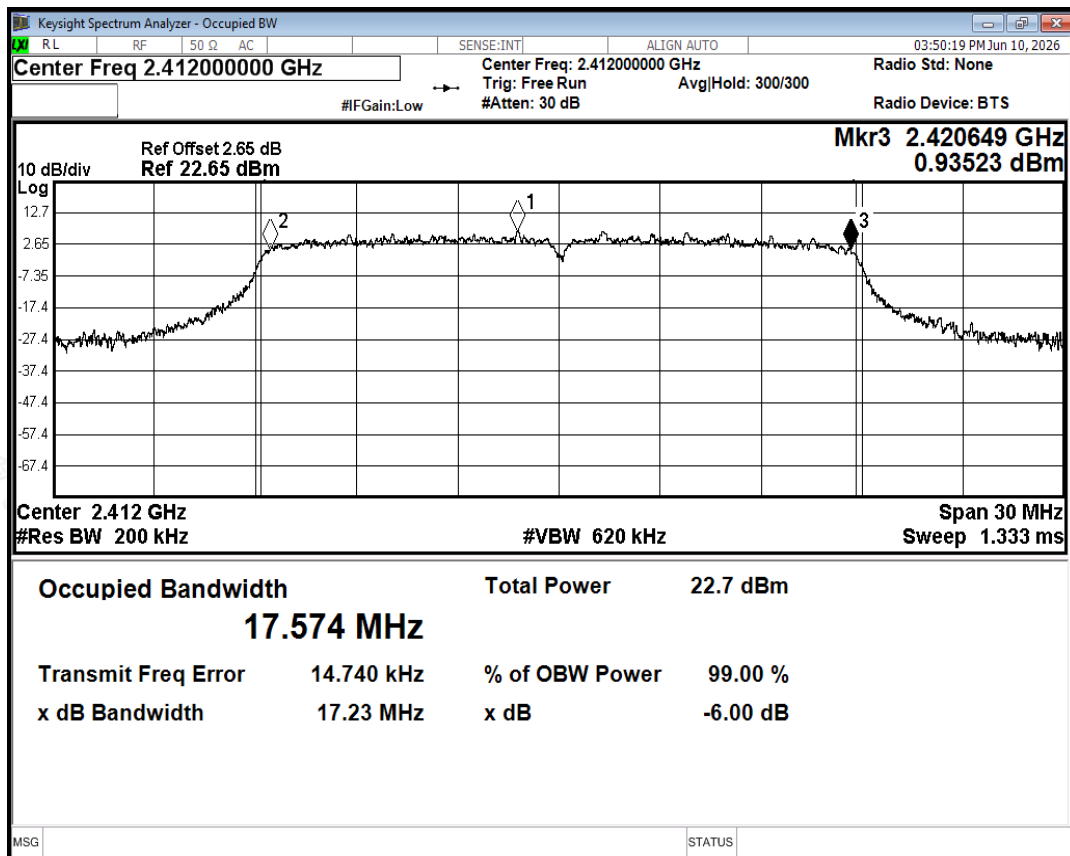


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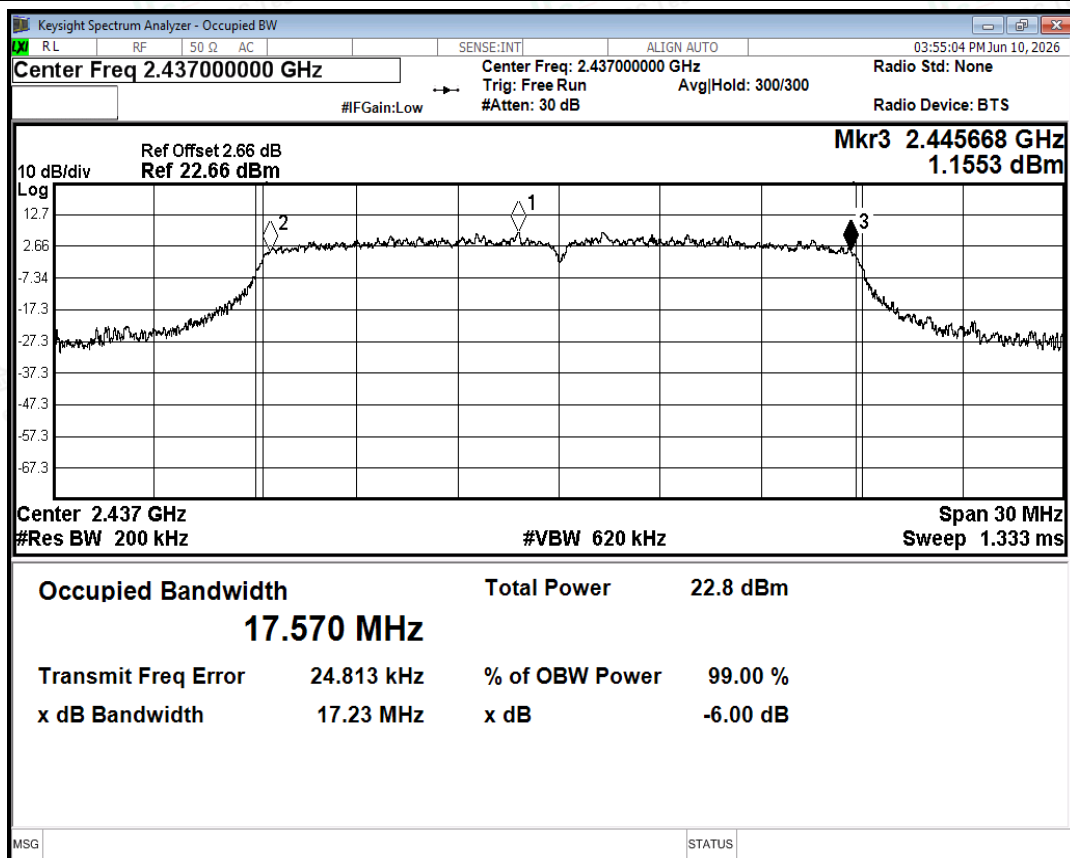
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-6dB Bandwidth NVNT n20 2412MHz Ant0



-6dB Bandwidth NVNT n20 2437MHz Ant0

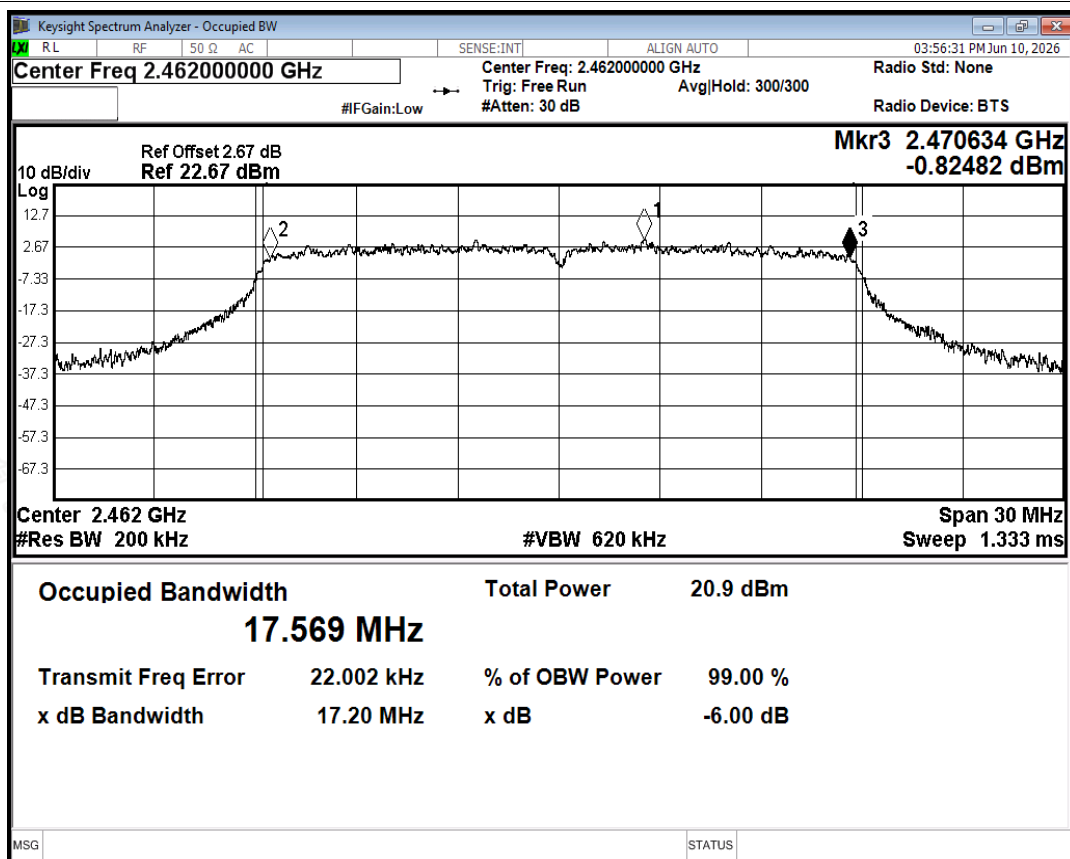


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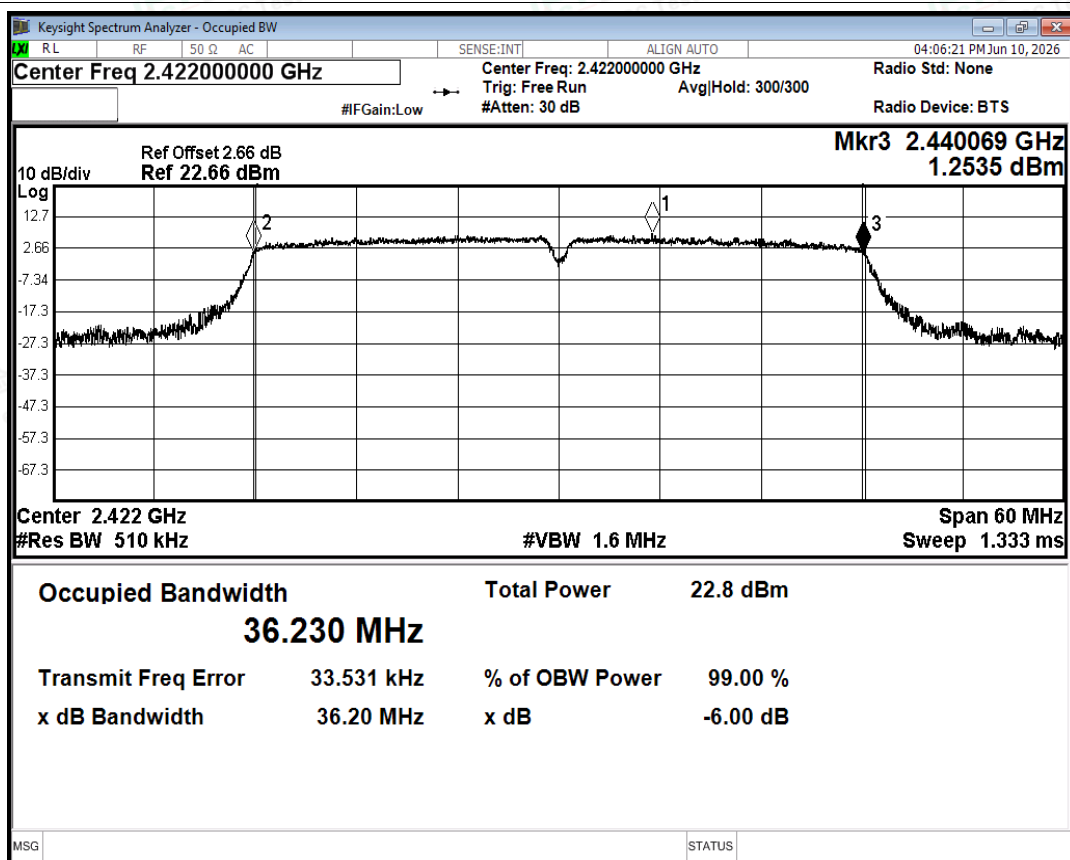
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-6dB Bandwidth NVNT n20 2462MHz Ant0



-6dB Bandwidth NVNT n40 2422MHz Ant0

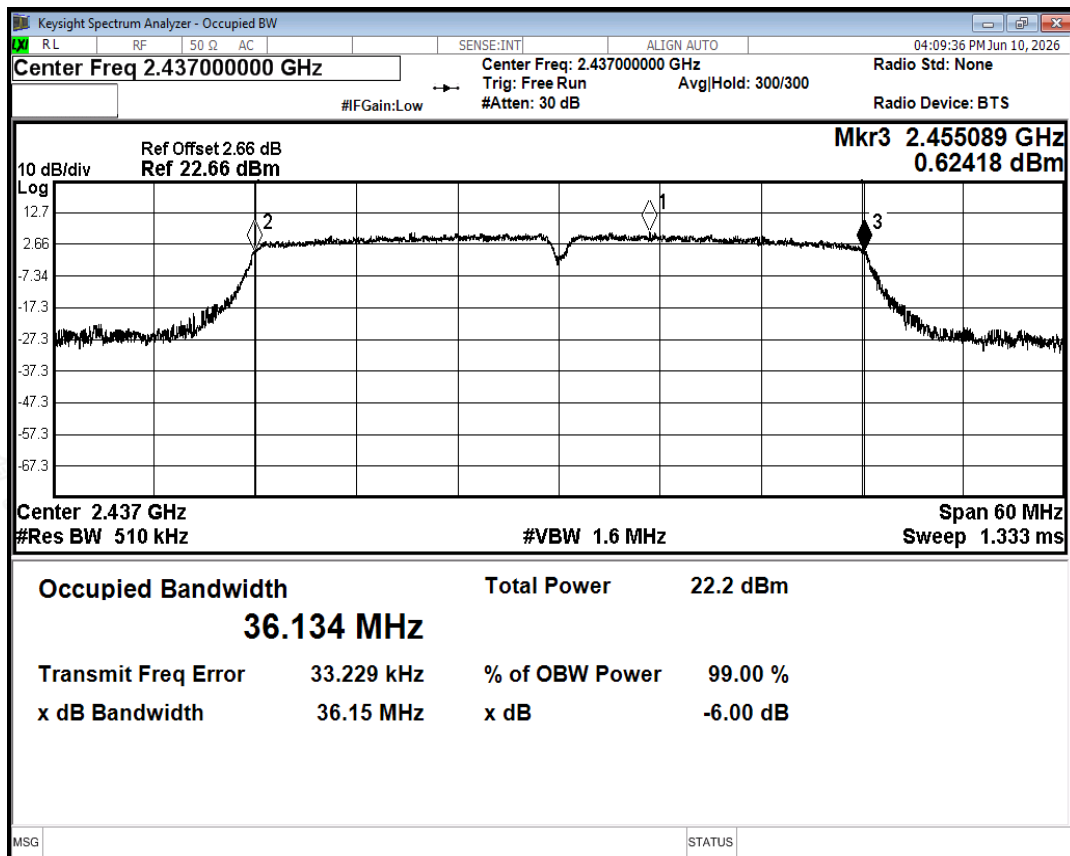


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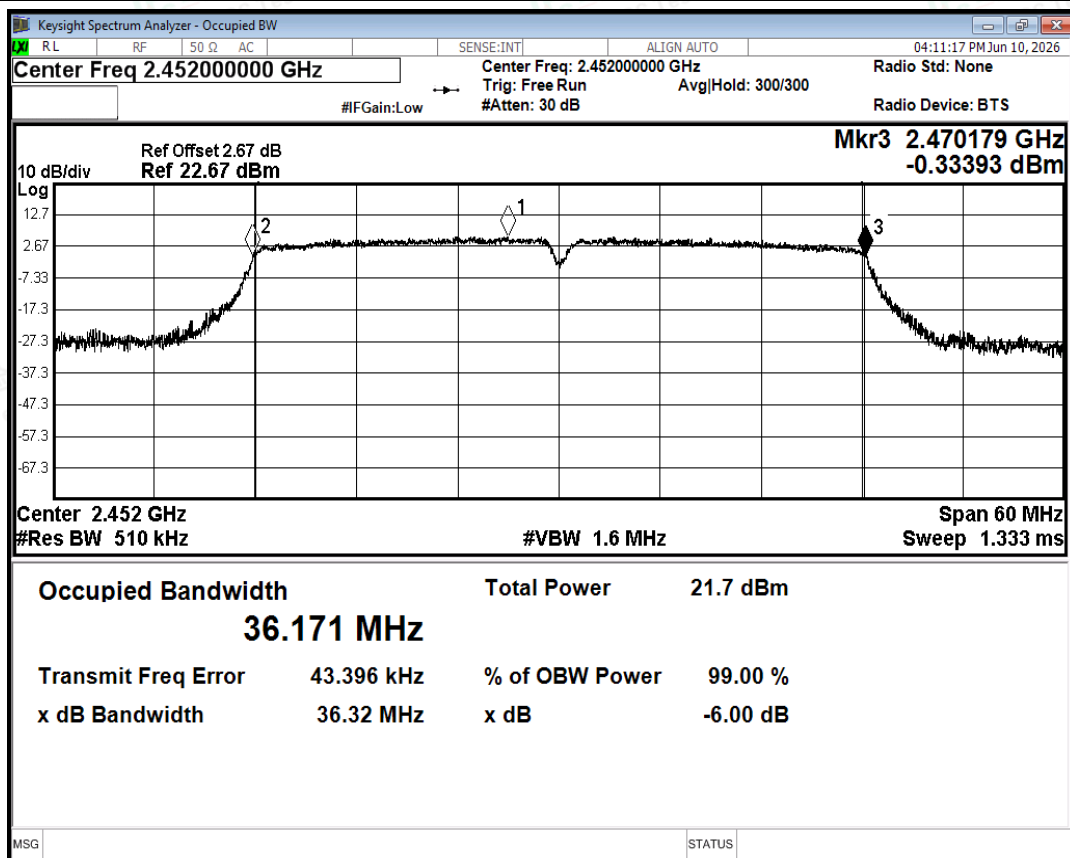
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-6dB Bandwidth NVNT n40 2437MHz Ant0



-6dB Bandwidth NVNT n40 2452MHz Ant0



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Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	b	2412	Ant1	10.18	0.5	Pass
NVNT	b	2437	Ant1	10.17	0.5	Pass
NVNT	b	2462	Ant1	10.18	0.5	Pass
NVNT	g	2412	Ant1	16.16	0.5	Pass
NVNT	g	2437	Ant1	16.24	0.5	Pass
NVNT	g	2462	Ant1	16.26	0.5	Pass
NVNT	n20	2412	Ant1	17.23	0.5	Pass
NVNT	n20	2437	Ant1	17.22	0.5	Pass
NVNT	n20	2462	Ant1	17.23	0.5	Pass
NVNT	n40	2422	Ant1	35.95	0.5	Pass
NVNT	n40	2437	Ant1	35.68	0.5	Pass
NVNT	n40	2452	Ant1	35.83	0.5	Pass

Note: offset=System attenuation +cable loss

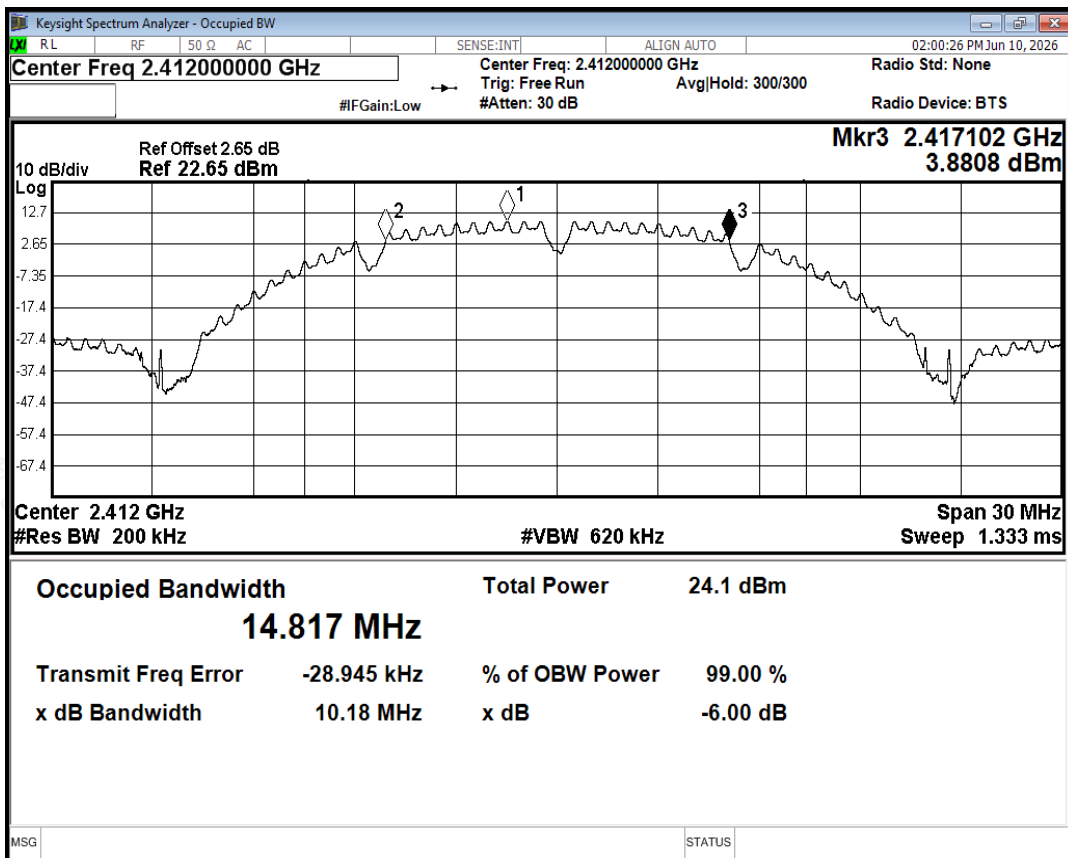


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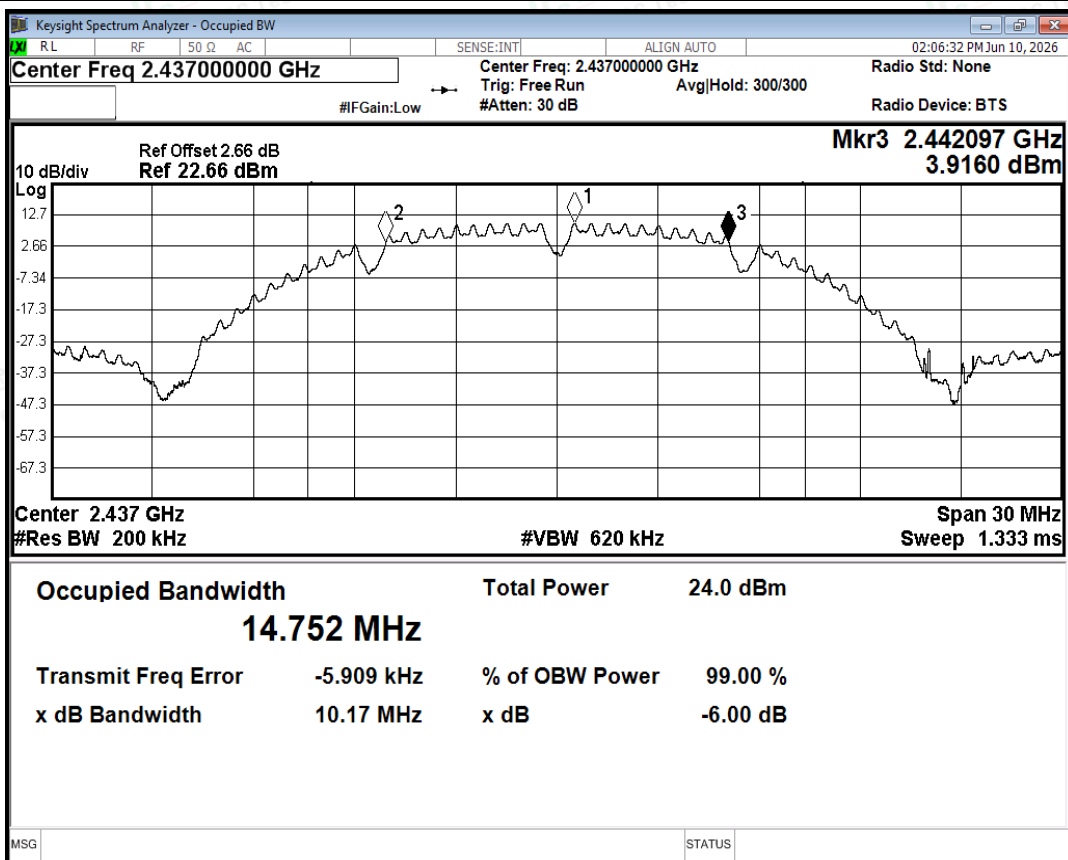
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-6dB Bandwidth NVNT b 2412MHz Ant1



-6dB Bandwidth NVNT b 2437MHz Ant1

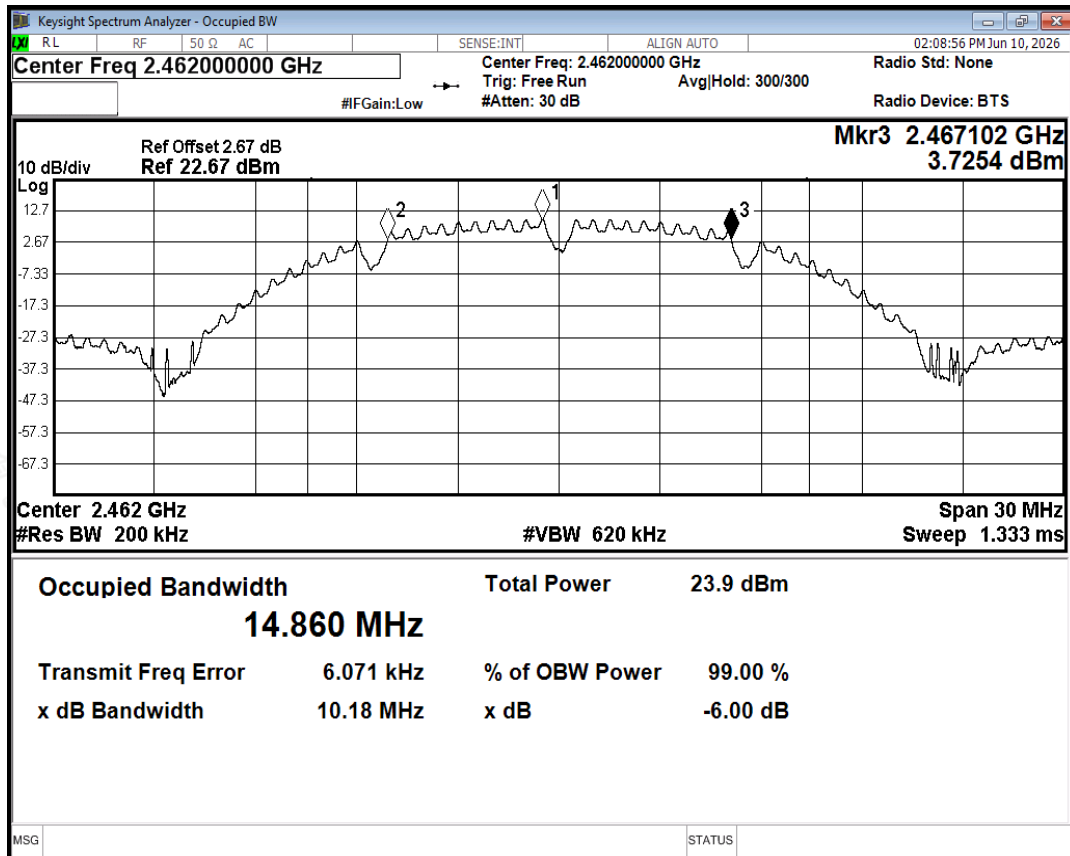


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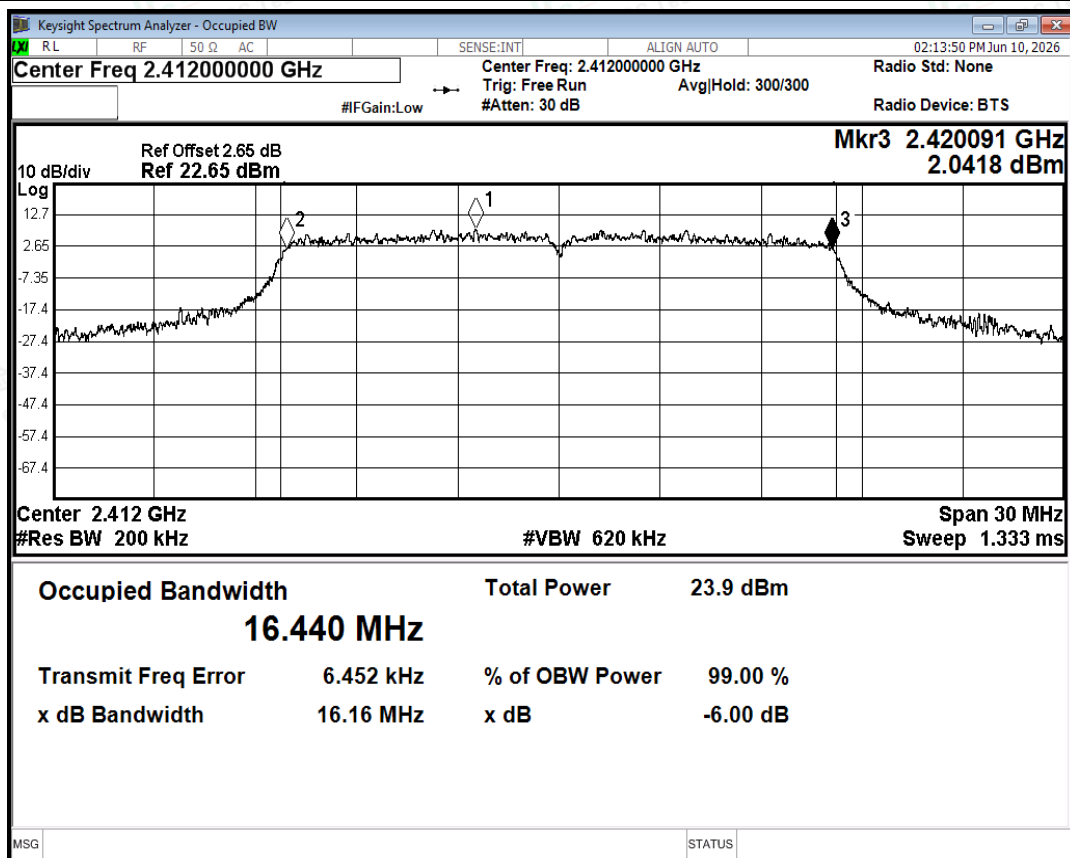
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-6dB Bandwidth NVNT b 2462MHz Ant1



-6dB Bandwidth NVNT g 2412MHz Ant1

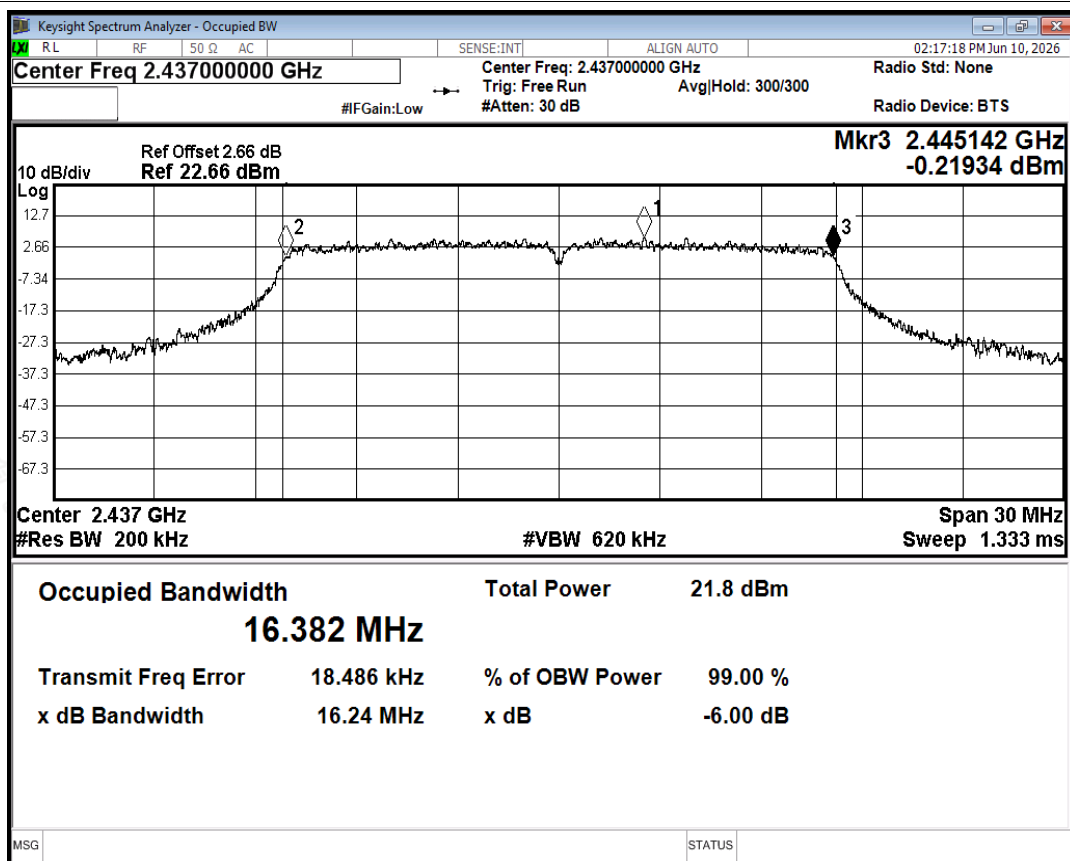


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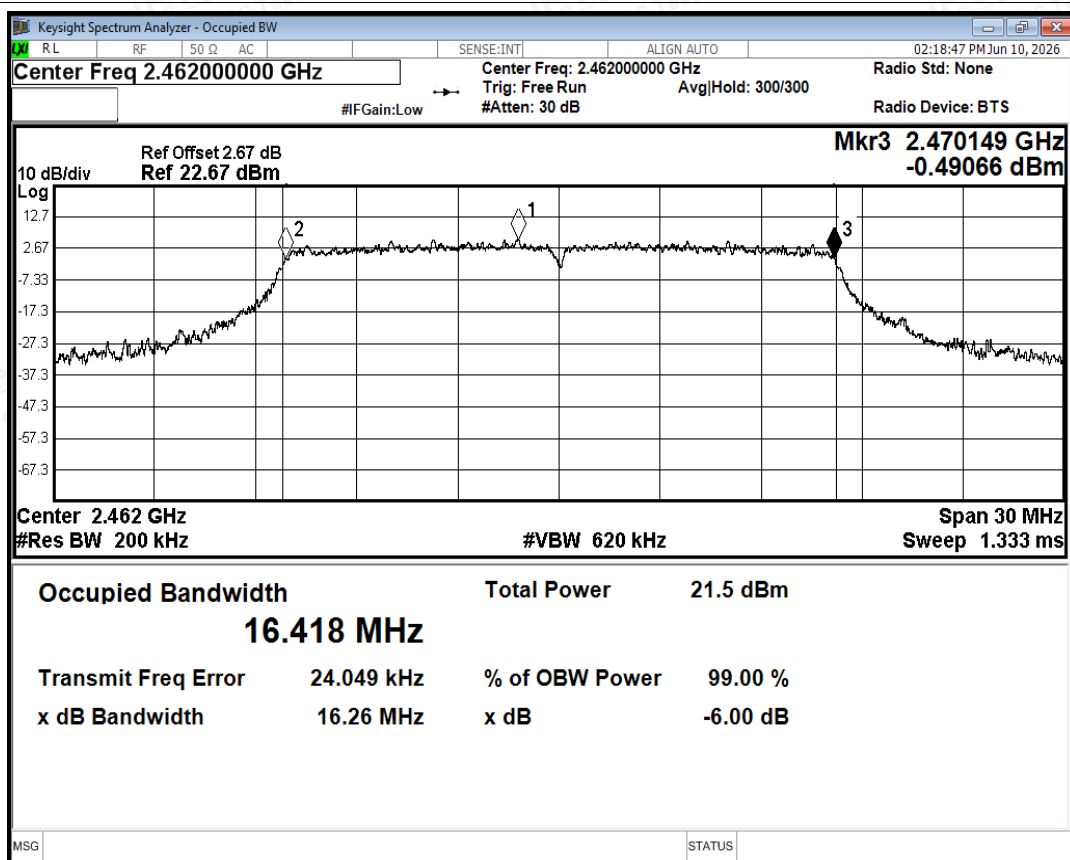
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-6dB Bandwidth NVNT g 2437MHz Ant1



-6dB Bandwidth NVNT g 2462MHz Ant1

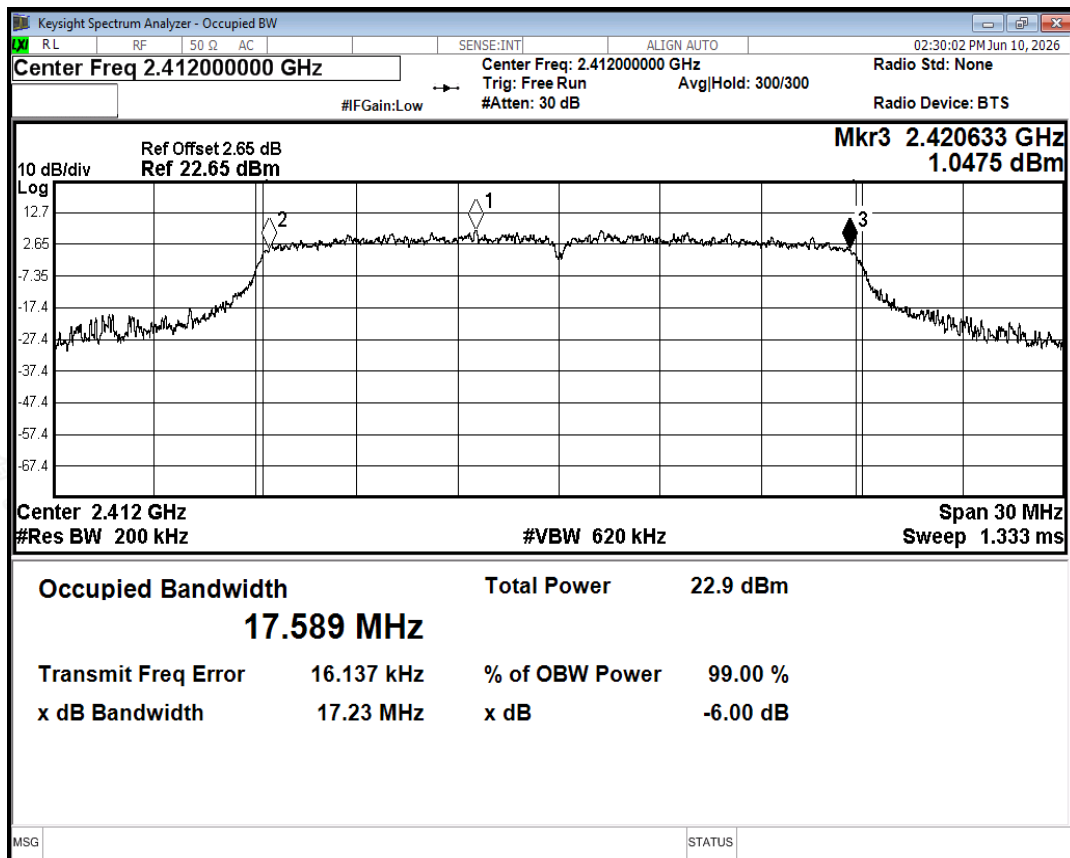


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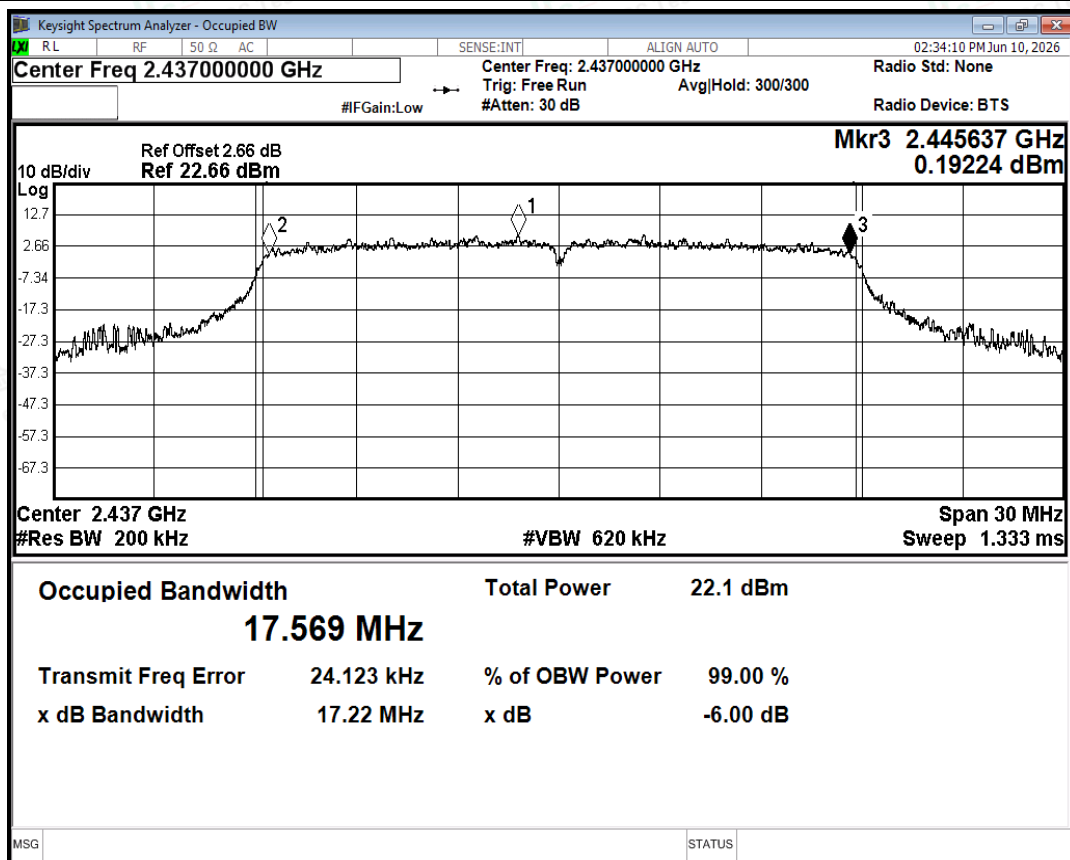
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-6dB Bandwidth NVNT n20 2412MHz Ant1



-6dB Bandwidth NVNT n20 2437MHz Ant1

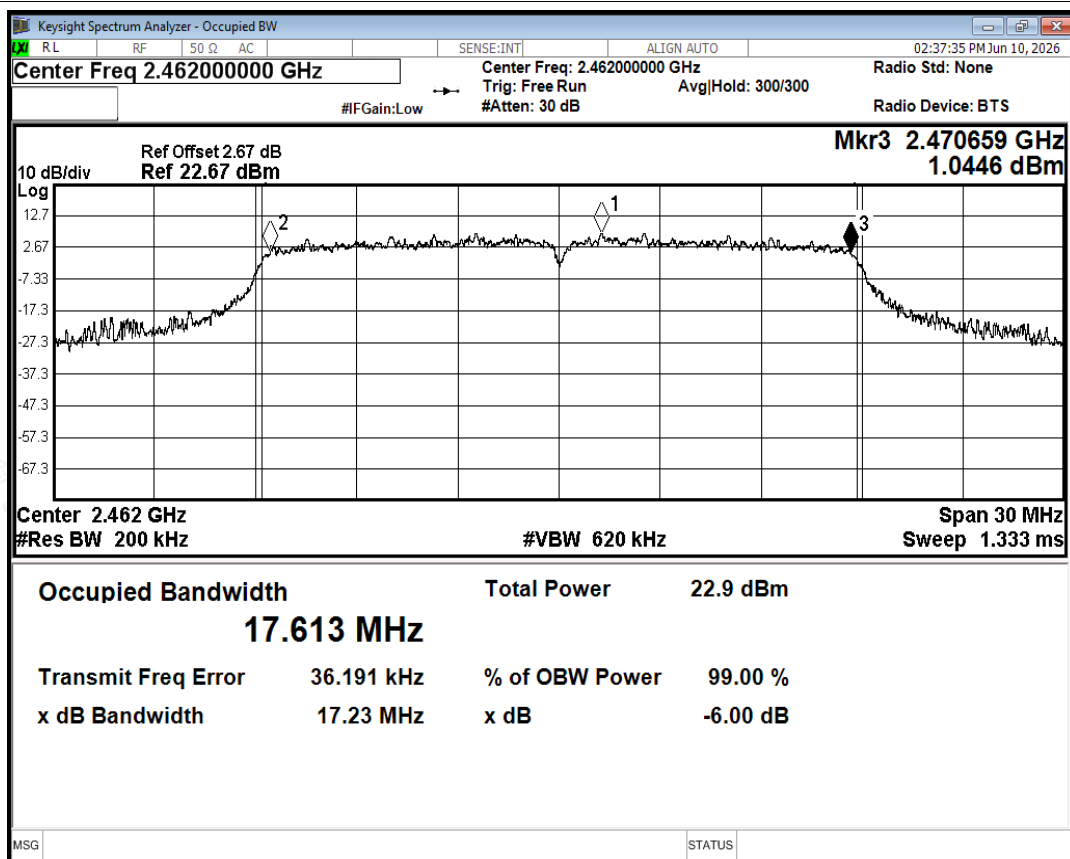


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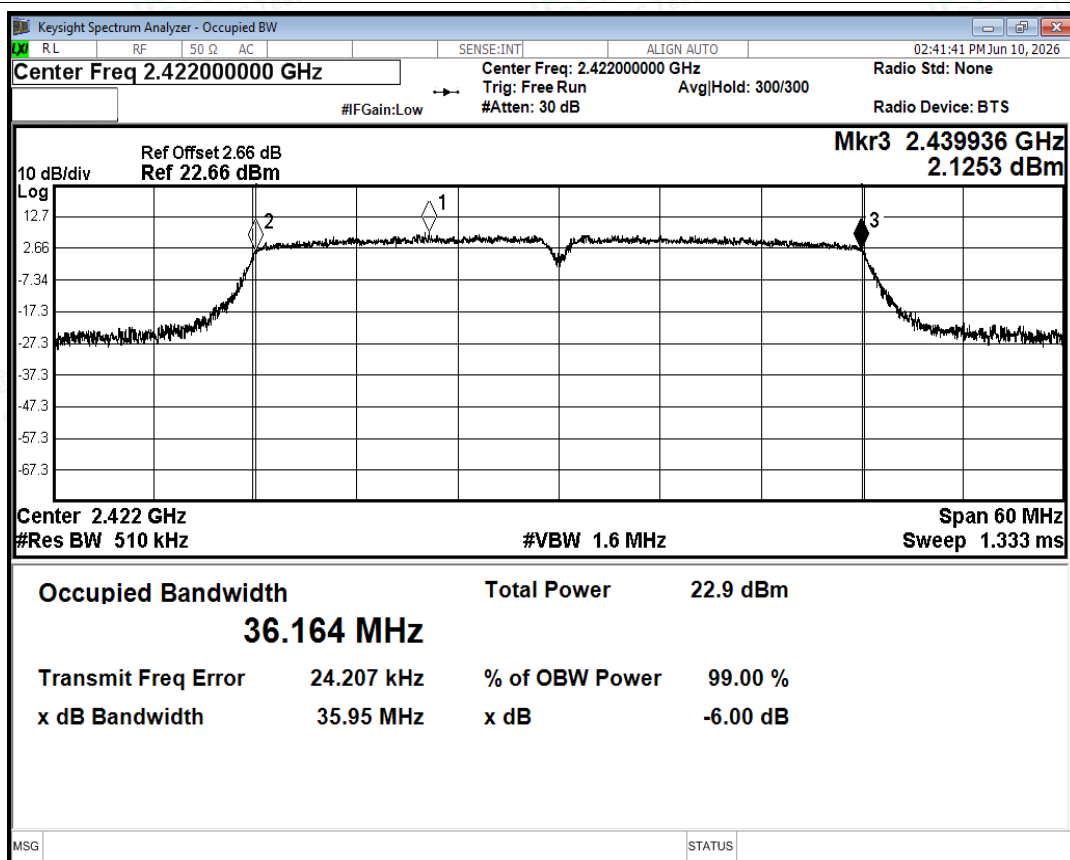
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-6dB Bandwidth NVNT n20 2462MHz Ant1



-6dB Bandwidth NVNT n40 2422MHz Ant1

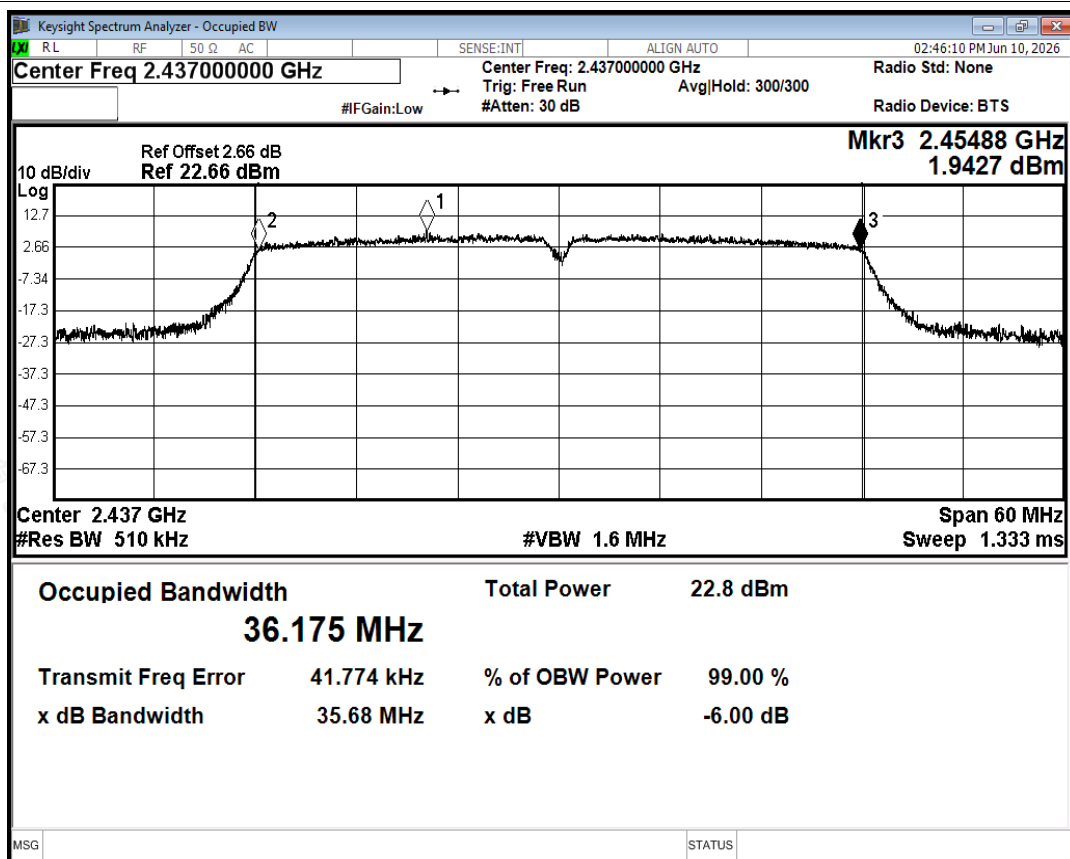


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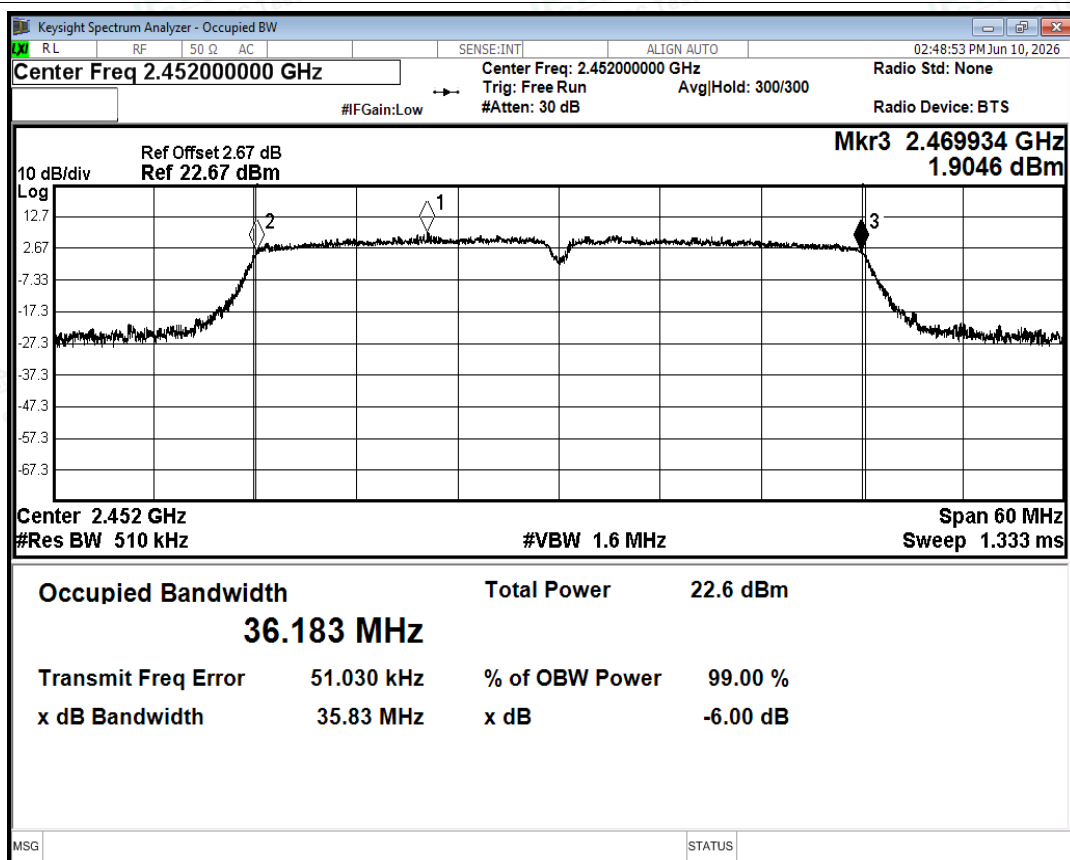
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-6dB Bandwidth NVNT n40 2437MHz Ant1



-6dB Bandwidth NVNT n40 2452MHz Ant1



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C.2 Maximum Average Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Conducted Power (dBm)	Limit Conducted(dBm)	Verdict
NVNT	b	2412	Ant0	18.18	0.13	18.31	30	Pass
NVNT	b	2437	Ant0	17.9	0.13	18.03	30	Pass
NVNT	b	2462	Ant0	17.63	0.13	17.76	30	Pass
NVNT	g	2412	Ant0	17.45	0.39	17.84	30	Pass
NVNT	g	2437	Ant0	17.37	0.41	17.78	30	Pass
NVNT	g	2462	Ant0	17.41	0.23	17.64	30	Pass
NVNT	n20	2412	Ant0	16.11	0.23	16.34	30	Pass
NVNT	n20	2437	Ant0	16.22	0.25	16.47	30	Pass
NVNT	n20	2462	Ant0	16.44	0.45	16.89	30	Pass
NVNT	n40	2422	Ant0	16.04	0.92	16.96	30	Pass
NVNT	n40	2437	Ant0	15.39	0.95	16.34	30	Pass
NVNT	n40	2452	Ant0	16.01	0.8	16.81	30	Pass

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Conducted Power (dBm)	Limit Conducted(dBm)	Verdict
NVNT	b	2412	Ant1	18.29	0.18	18.47	30	Pass
NVNT	b	2437	Ant1	18.78	0.85	19.63	30	Pass
NVNT	b	2462	Ant1	18.79	0.15	18.94	30	Pass
NVNT	g	2412	Ant1	17.41	0.21	17.62	30	Pass
NVNT	g	2437	Ant1	17.66	0.29	17.95	30	Pass
NVNT	g	2462	Ant1	17.19	0.25	17.44	30	Pass
NVNT	n20	2412	Ant1	16.34	0.31	16.65	30	Pass
NVNT	n20	2437	Ant1	16.49	0.49	16.98	30	Pass
NVNT	n20	2462	Ant1	16.38	0.28	16.66	30	Pass
NVNT	n40	2422	Ant1	15.98	0.81	16.79	30	Pass
NVNT	n40	2437	Ant1	15.93	0.41	16.34	30	Pass
NVNT	n40	2452	Ant1	15.74	0.94	16.68	30	Pass

MIMO

Condition	Mode	Frequency (MHz)	Total Power (dBm)			Limit (dBm)	Verdict
			Ant0	Ant1	Ant0+Ant1		
NVNT	n20	2412	16.34	16.65	19.51	30	Pass
NVNT	n20	2437	16.47	16.98	19.74	30	Pass
NVNT	n20	2462	16.89	16.66	19.79	30	Pass
NVNT	n40	2422	16.96	16.79	19.89	30	Pass
NVNT	n40	2437	16.34	16.34	19.35	30	Pass
NVNT	n40	2452	16.81	16.68	19.76	30	Pass

Note: offset=System attenuation +cabel loss



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C.3 Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/30kHz)	Duty Factor (dB)	Total PSD (dBm/30kHz)	Limit (dBm/3kHz)	Verdict
NVNT	b	2412	Ant0	-4.43	0.13	-4.3	8	Pass
NVNT	b	2437	Ant0	-4.78	0.13	-4.65	8	Pass
NVNT	b	2462	Ant0	-5.61	0.13	-5.48	8	Pass
NVNT	g	2412	Ant0	-6.1	0.39	-5.71	8	Pass
NVNT	g	2437	Ant0	-6.14	0.41	-5.73	8	Pass
NVNT	g	2462	Ant0	-6.23	0.23	-6	8	Pass
NVNT	n20	2412	Ant0	-7.97	0.23	-7.74	8	Pass
NVNT	n20	2437	Ant0	-7.56	0.25	-7.31	8	Pass
NVNT	n20	2462	Ant0	-7.27	0.45	-6.82	8	Pass
NVNT	n40	2422	Ant0	-10.47	0.92	-9.55	8	Pass
NVNT	n40	2437	Ant0	-10.53	0.95	-9.58	8	Pass
NVNT	n40	2452	Ant0	-9.94	0.8	-9.14	8	Pass

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/30kHz)	Duty Factor (dB)	Total PSD (dBm/30kHz)	Limit (dBm/3kHz)	Verdict
NVNT	b	2412	Ant1	-4.66	0.18	-4.48	8	Pass
NVNT	b	2437	Ant1	-4.06	0.85	-3.21	8	Pass
NVNT	b	2462	Ant1	-3.84	0.15	-3.69	8	Pass
NVNT	g	2412	Ant1	-6.07	0.21	-5.86	8	Pass
NVNT	g	2437	Ant1	-6.21	0.29	-5.92	8	Pass
NVNT	g	2462	Ant1	-6.57	0.25	-6.32	8	Pass
NVNT	n20	2412	Ant1	-7.53	0.31	-7.22	8	Pass
NVNT	n20	2437	Ant1	-8.37	0.49	-7.88	8	Pass
NVNT	n20	2462	Ant1	-7.67	0.28	-7.39	8	Pass
NVNT	n40	2422	Ant1	-10.59	0.81	-9.78	8	Pass
NVNT	n40	2437	Ant1	-11.03	0.41	-10.62	8	Pass
NVNT	n40	2452	Ant1	-10.66	0.94	-9.72	8	Pass

MIMO

Condition	Mode	Frequency (MHz)	Total PSD (dBm/3kHz)			Limit (dBm)	Verdict
			Ant0	Ant1	Ant0+Ant1		
NVNT	n20	2412	-7.74	-7.22	-4.46	8	Pass
NVNT	n20	2437	-7.31	-7.88	-4.58	8	Pass
NVNT	n20	2462	-6.82	-7.39	-4.09	8	Pass
NVNT	n40	2422	-9.55	-9.78	-6.65	8	Pass
NVNT	n40	2437	-9.58	-10.62	-7.06	8	Pass
NVNT	n40	2452	-9.14	-9.72	-6.41	8	Pass

Note :offset=System attenuation +cabal loss

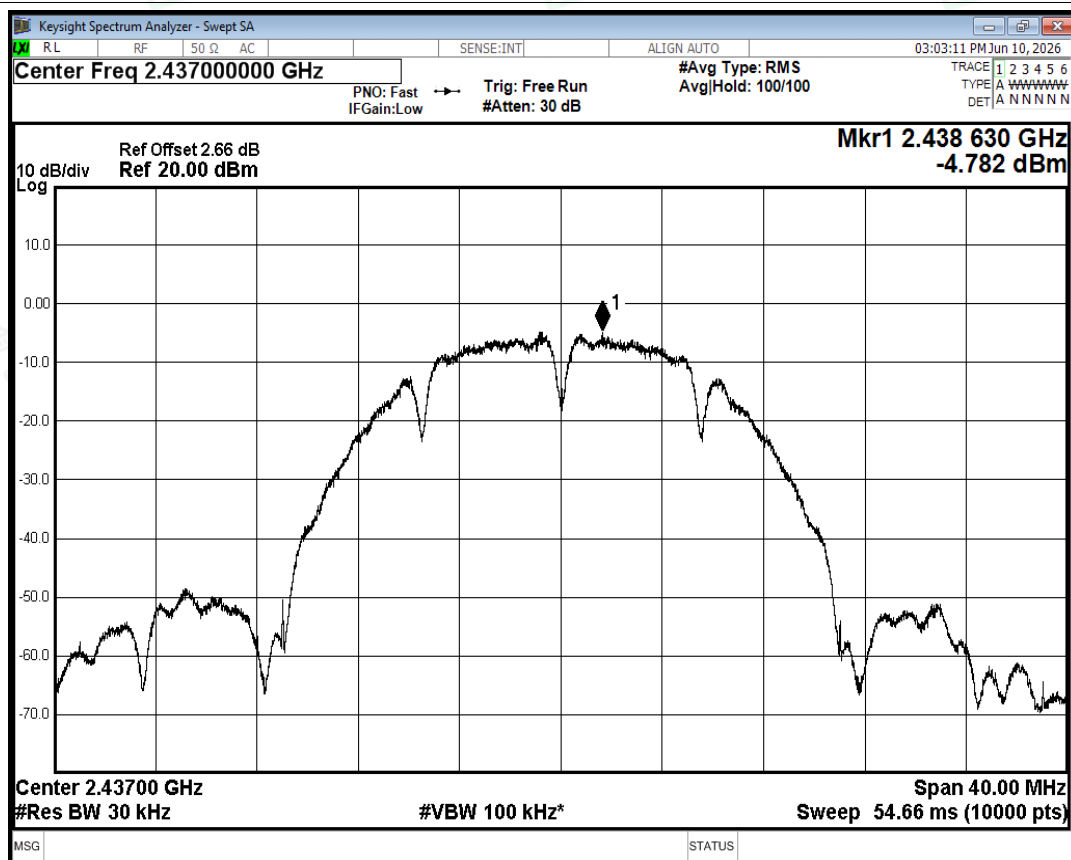
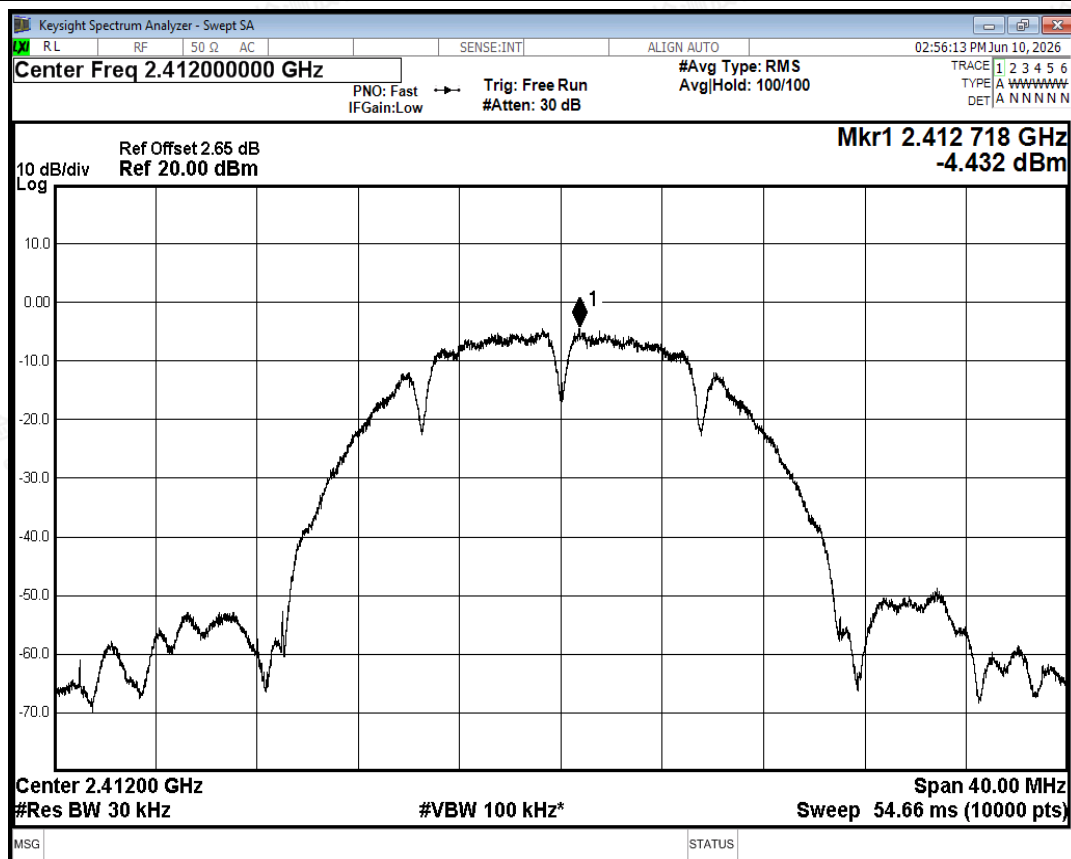


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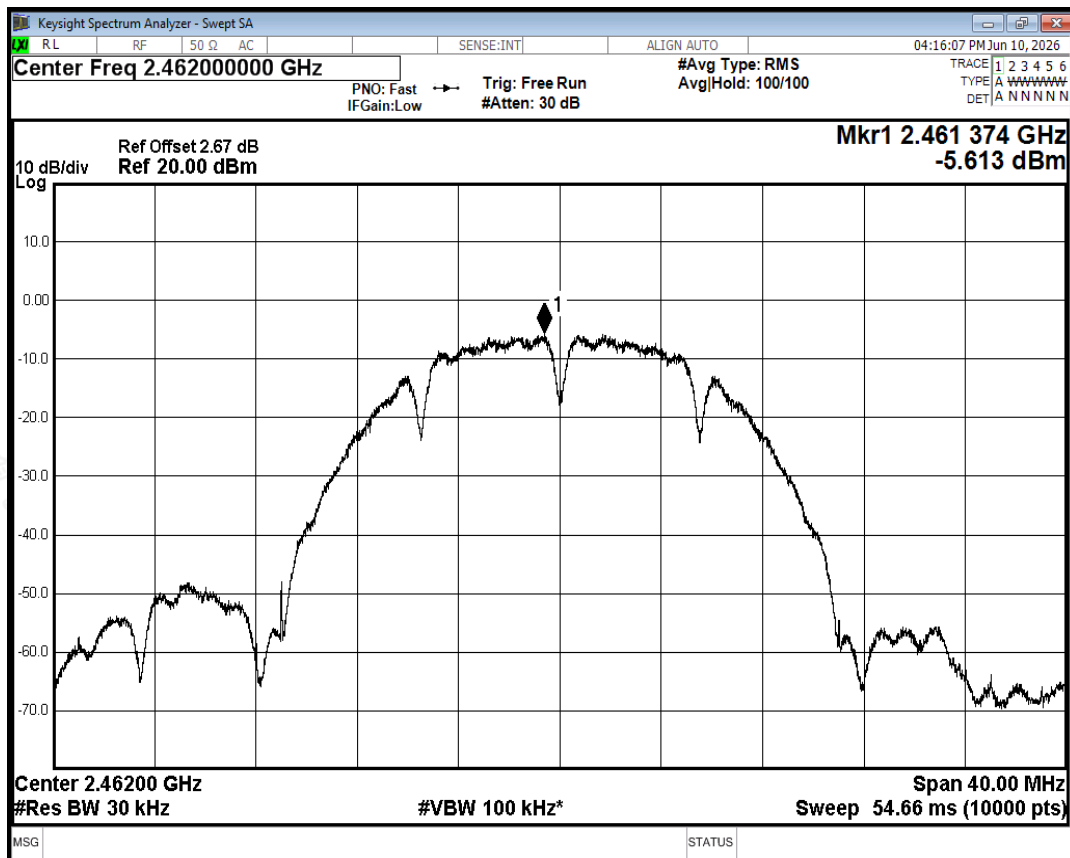


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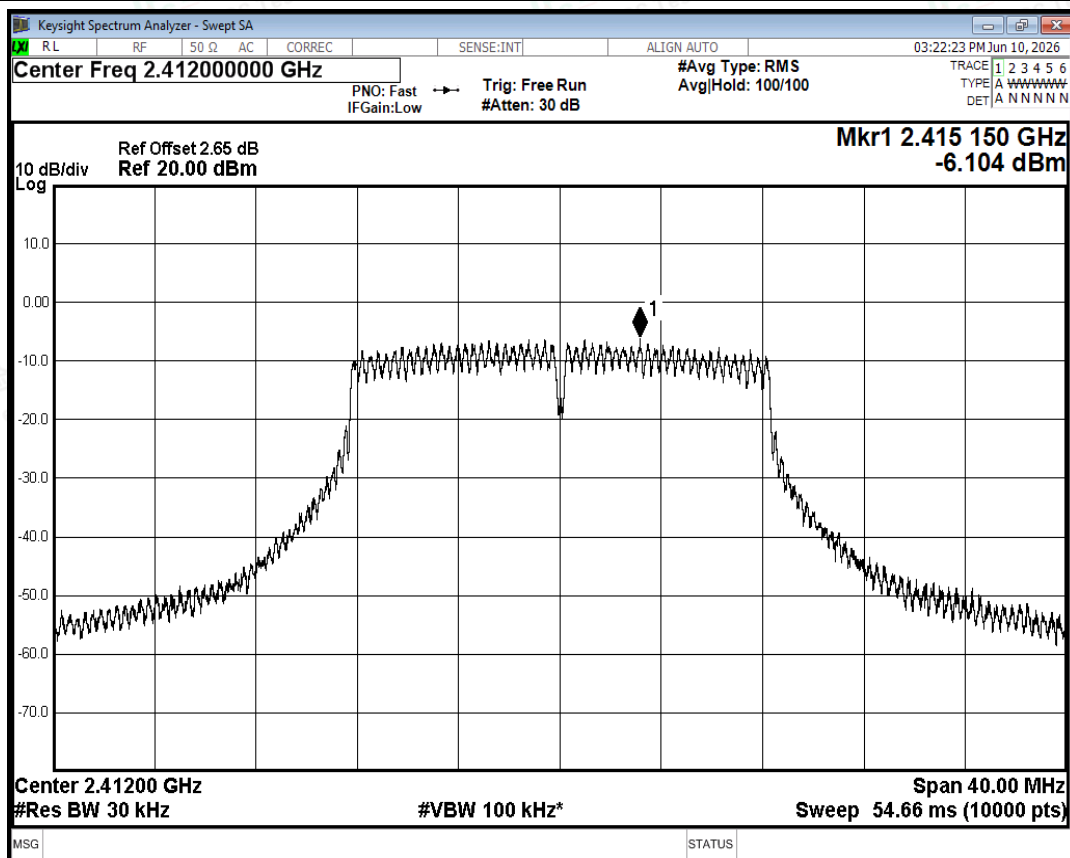
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PSD NVNT b 2462MHz Ant0



PSD NVNT g 2412MHz Ant0

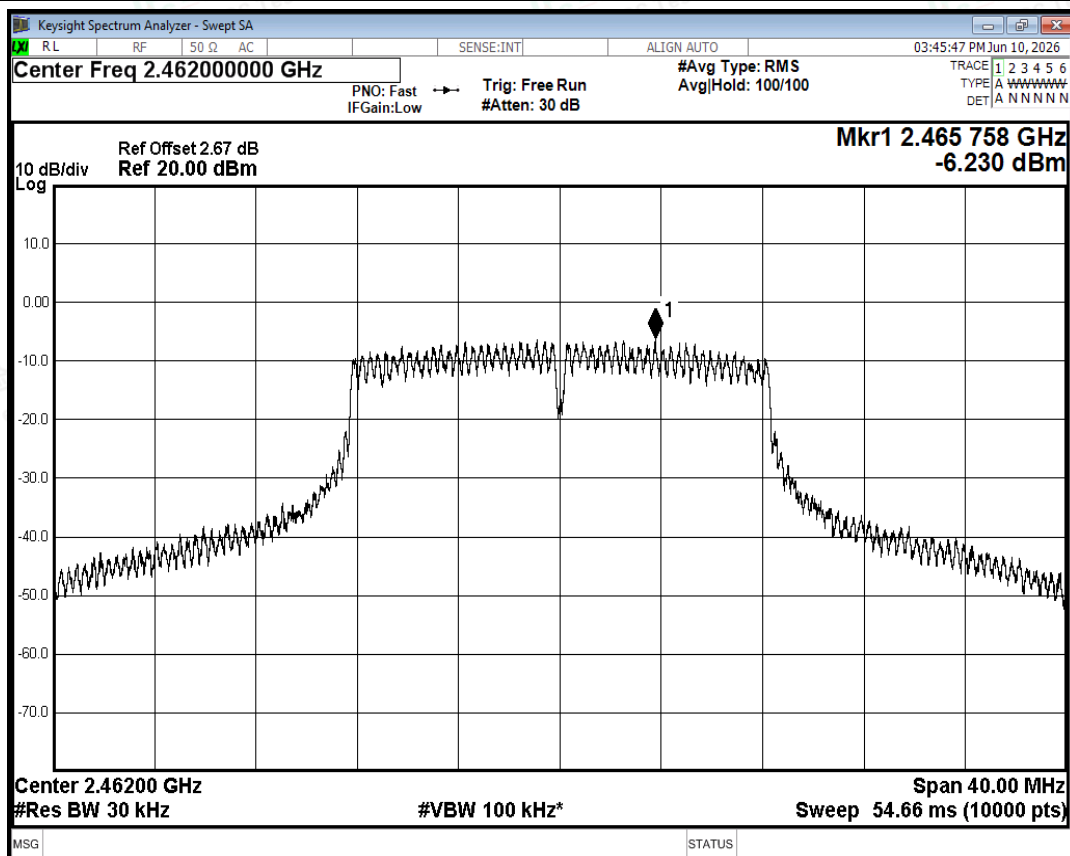
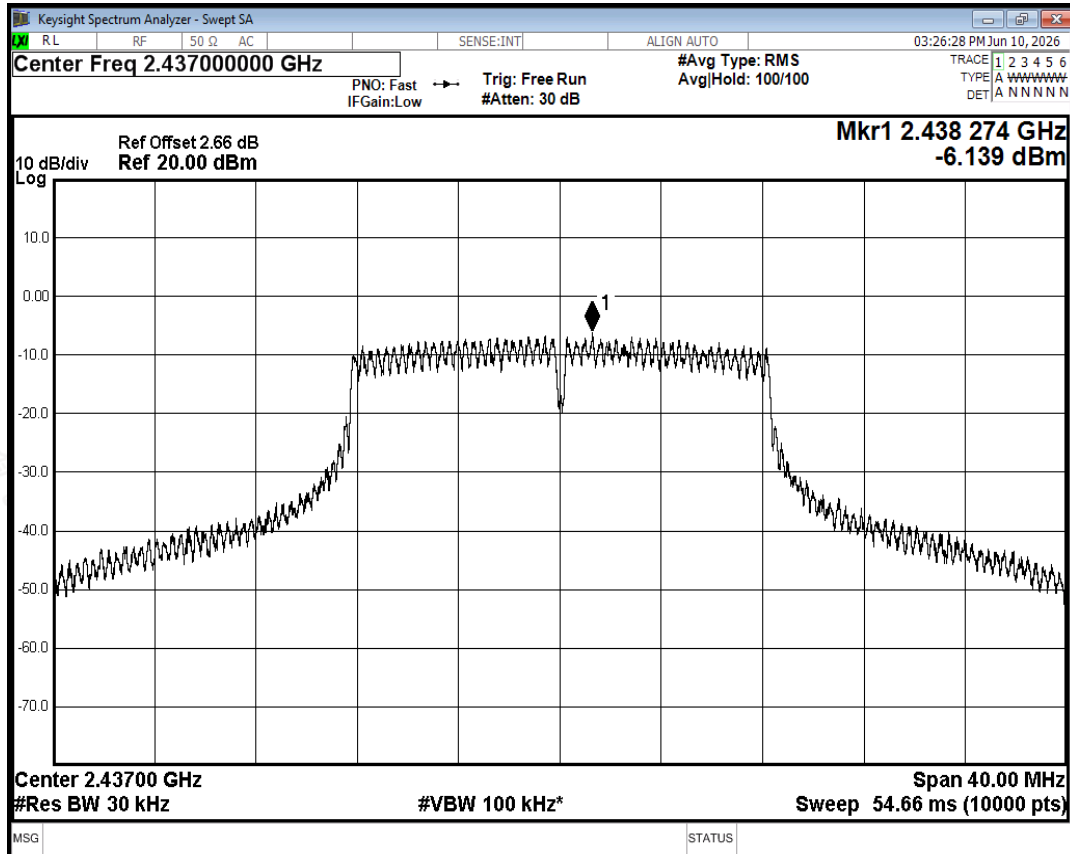


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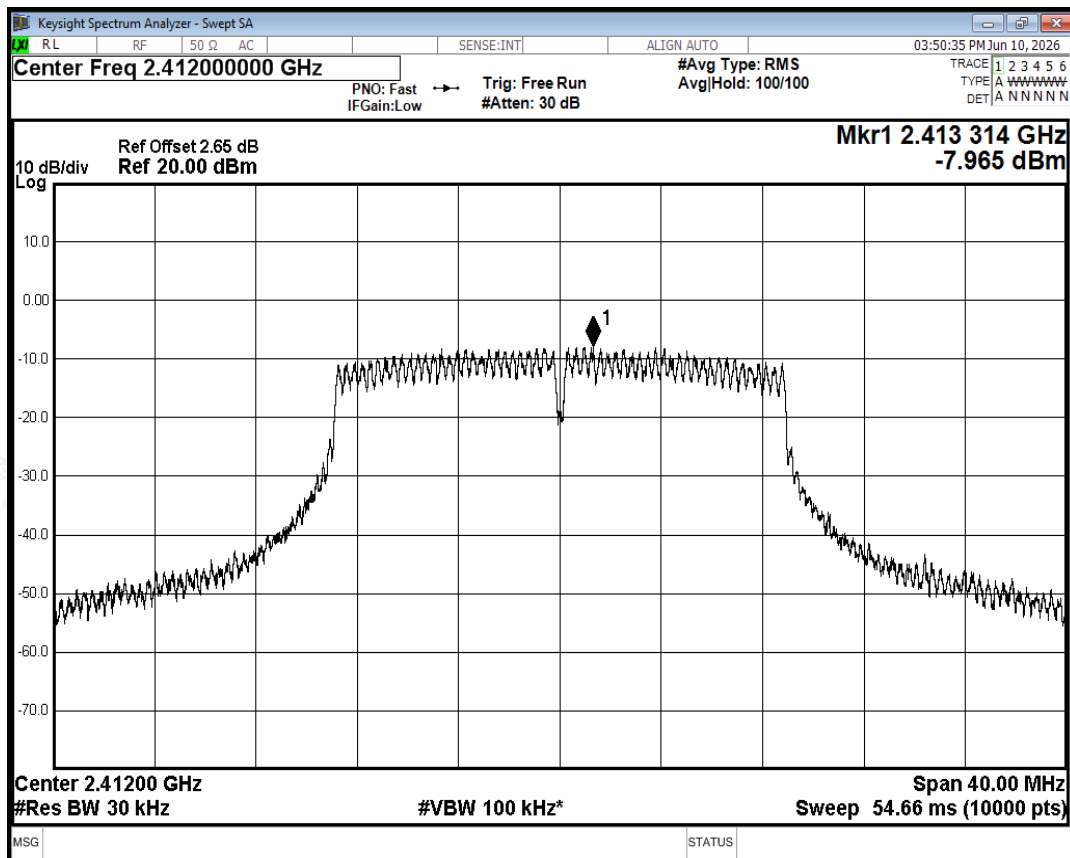


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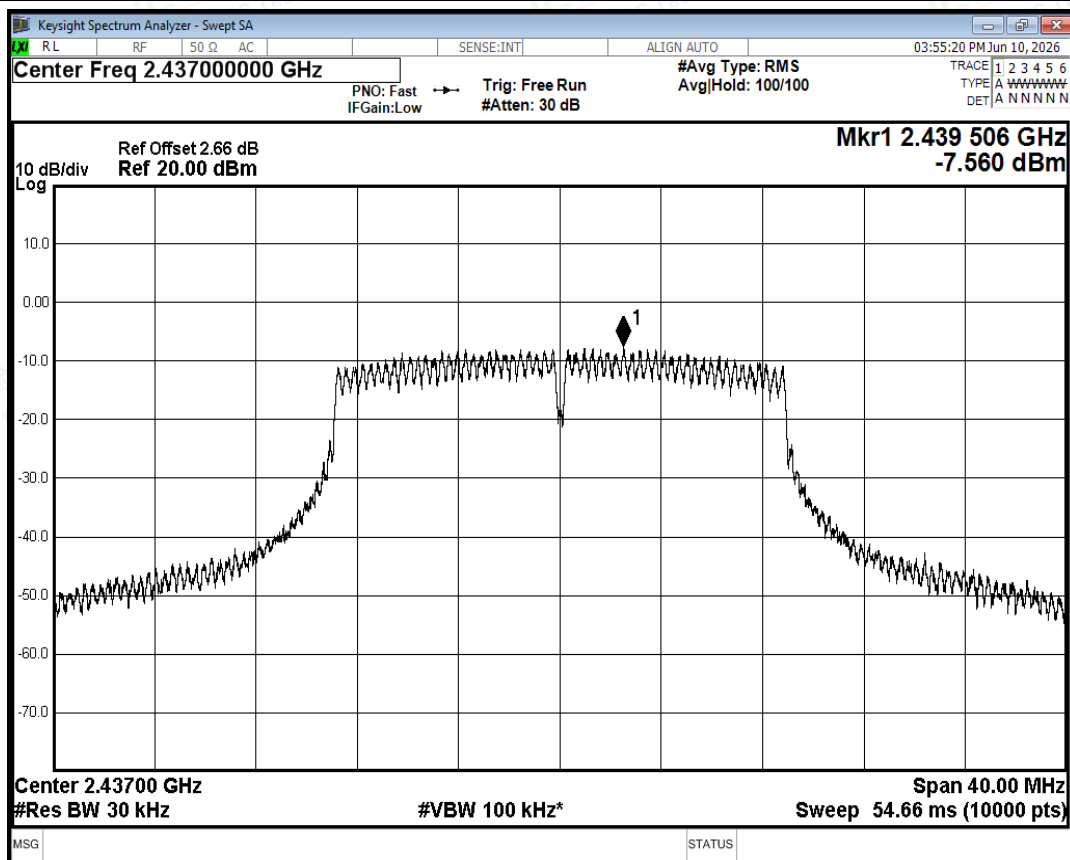
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PSD NVNT n20 2412MHz Ant0



PSD NVNT n20 2437MHz Ant0

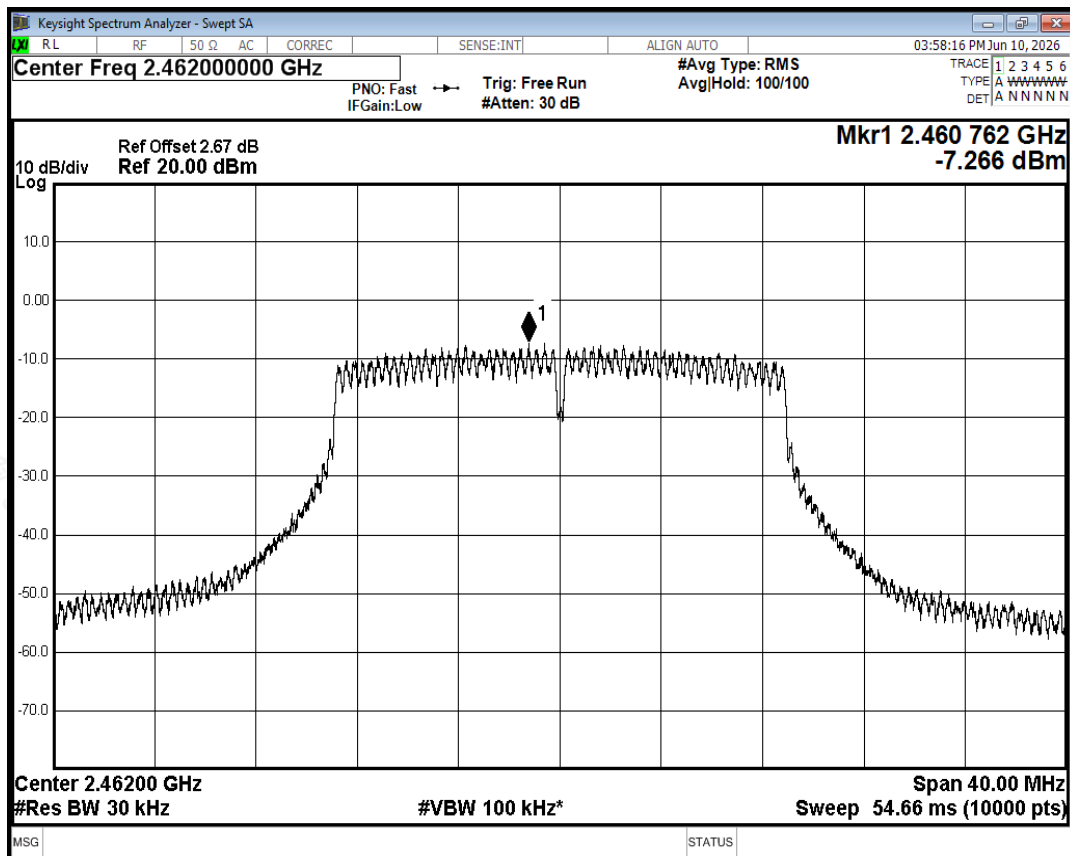


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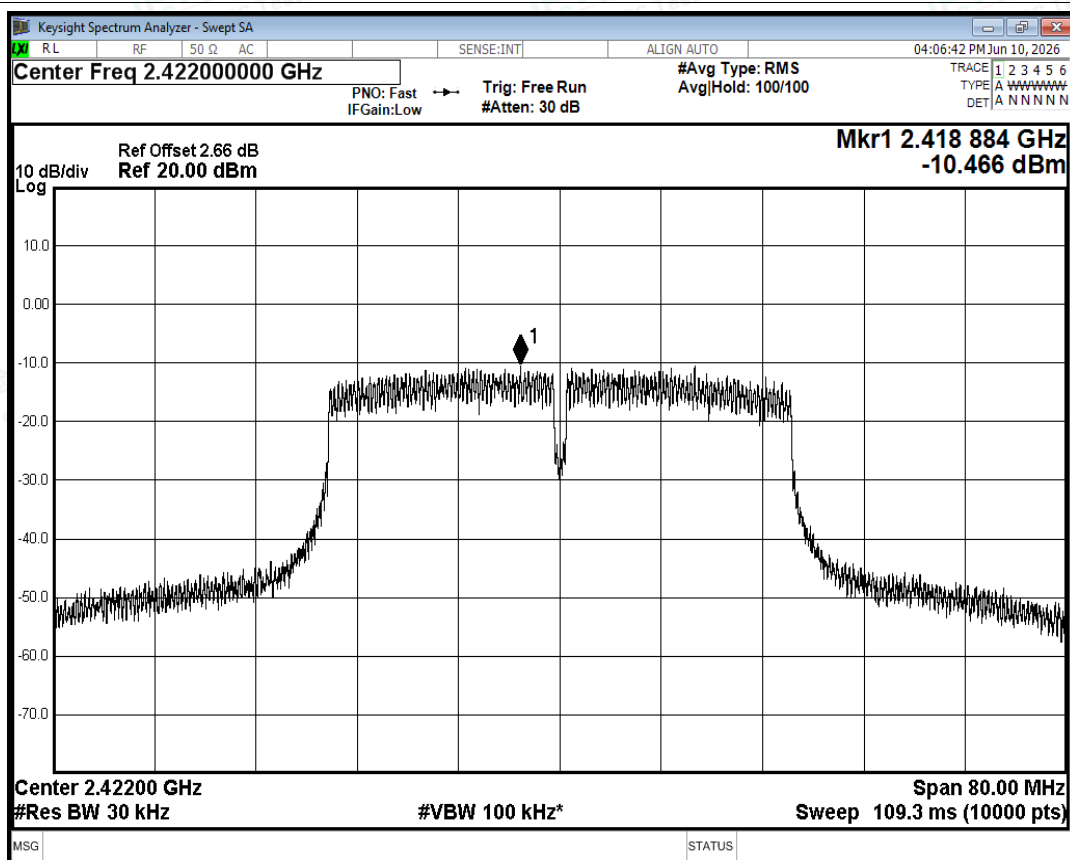
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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PSD NVNT n20 2462MHz Ant0



PSD NVNT n40 2422MHz Ant0

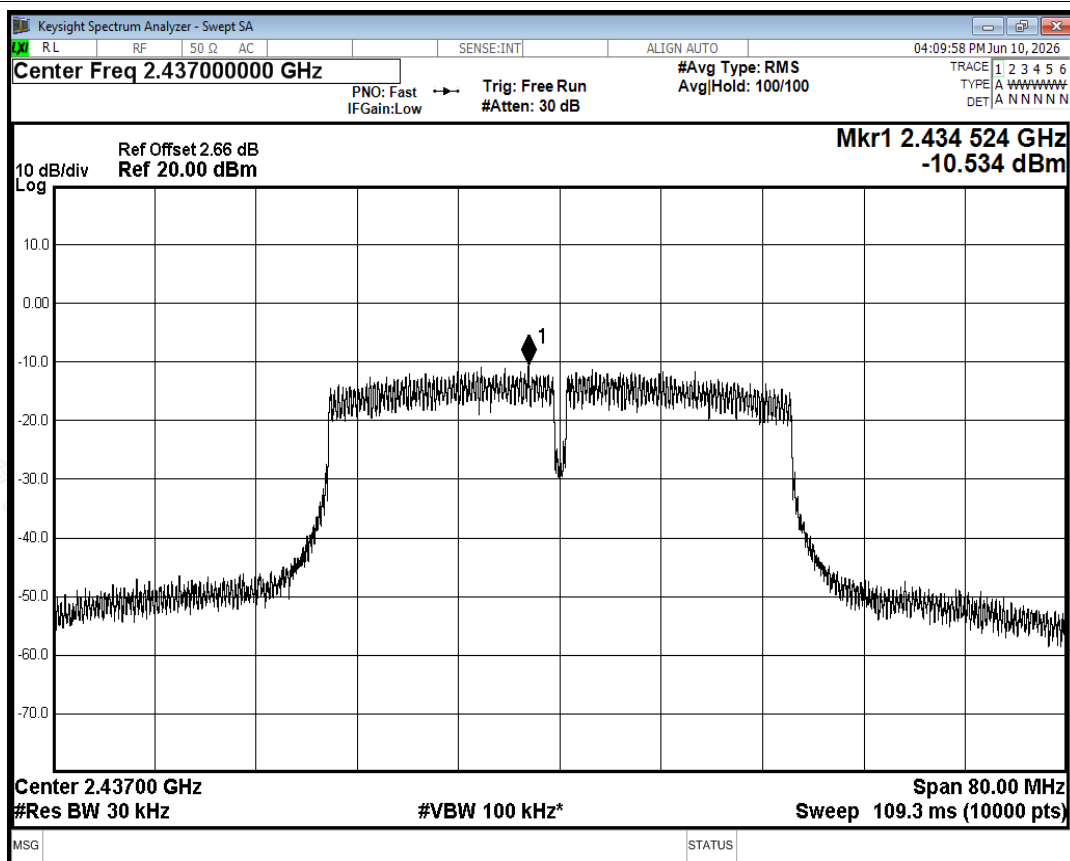


Shenzhen LCS Compliance Testing Laboratory Ltd.

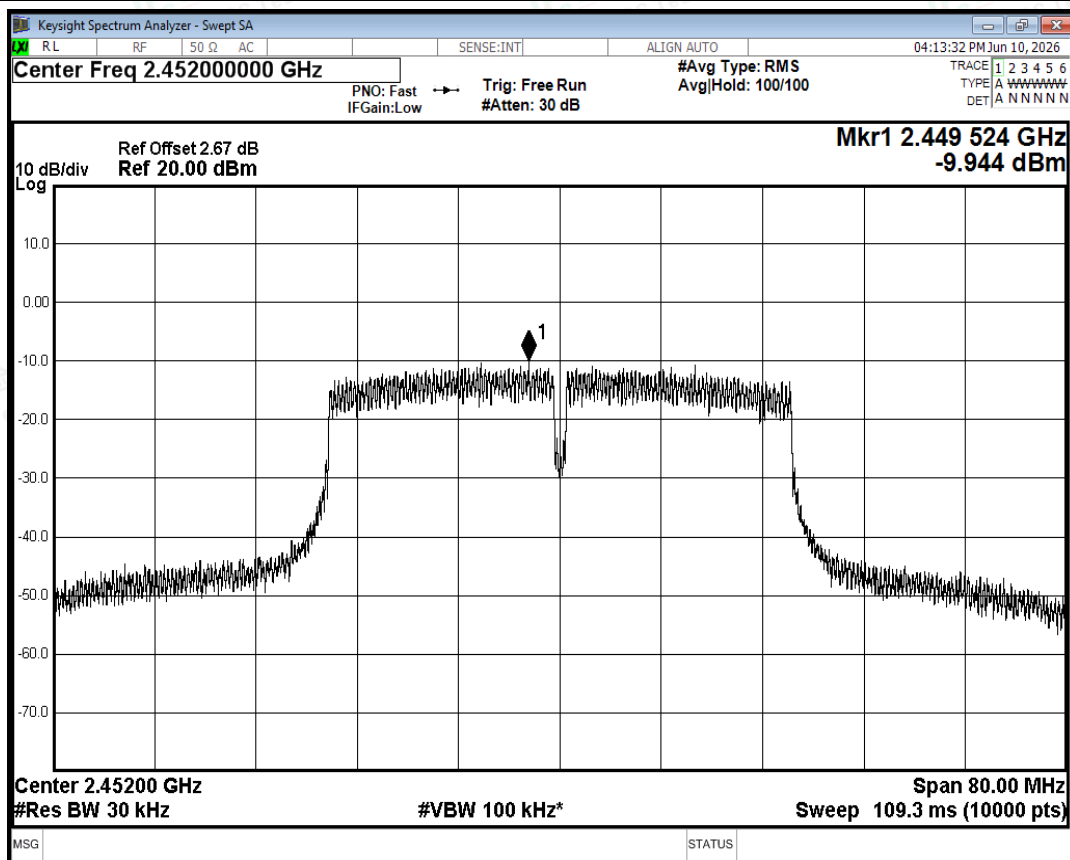
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PSD NVNT n40 2437MHz Ant0



PSD NVNT n40 2452MHz Ant0

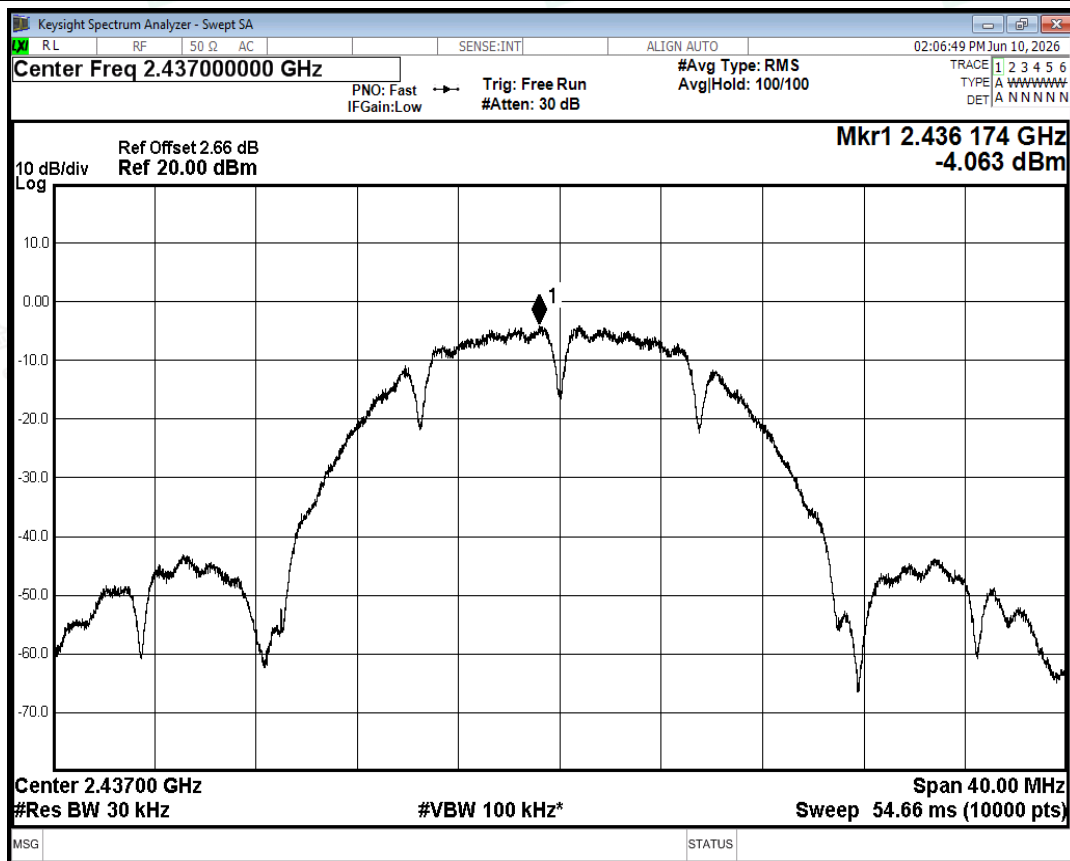
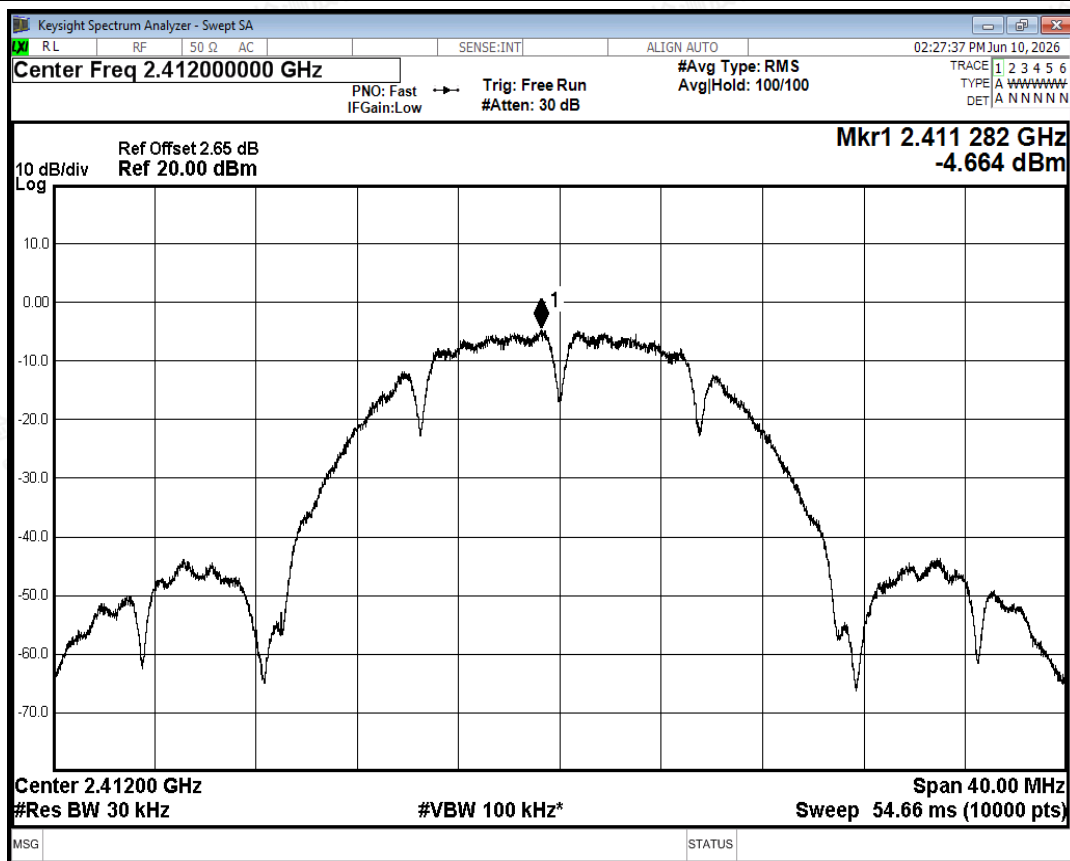


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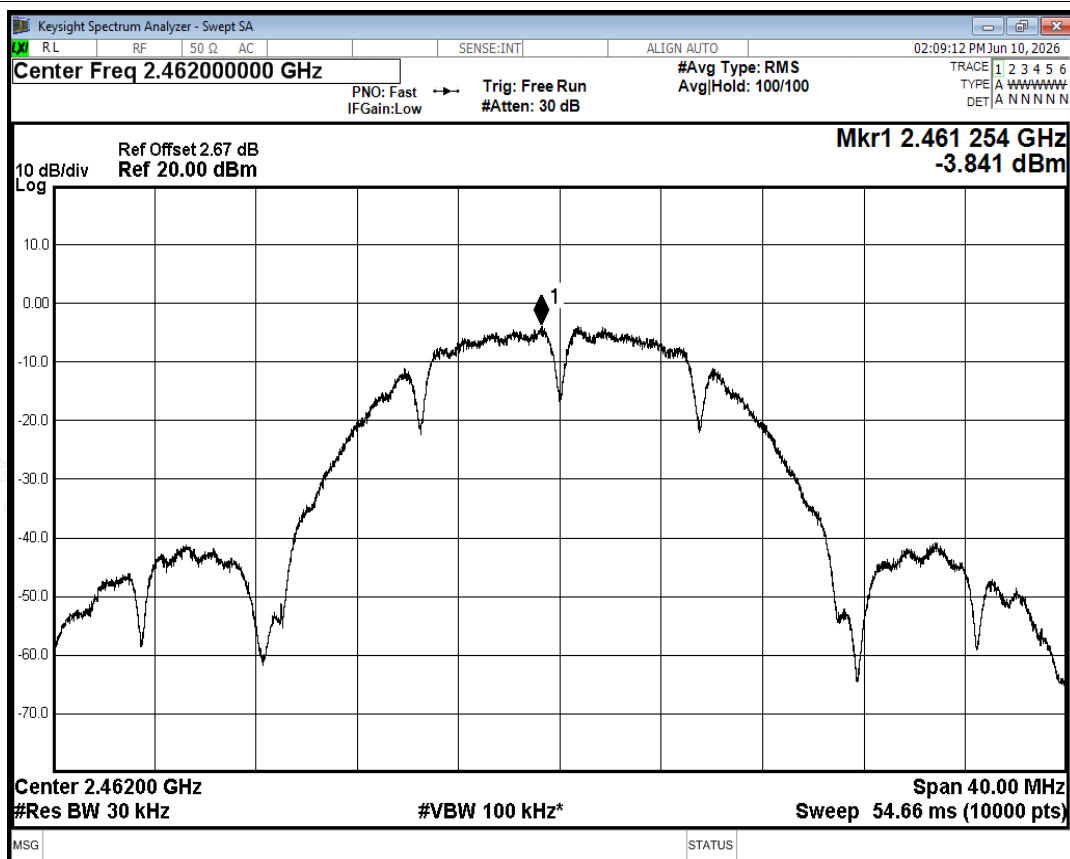


Shenzhen LCS Compliance Testing Laboratory Ltd.

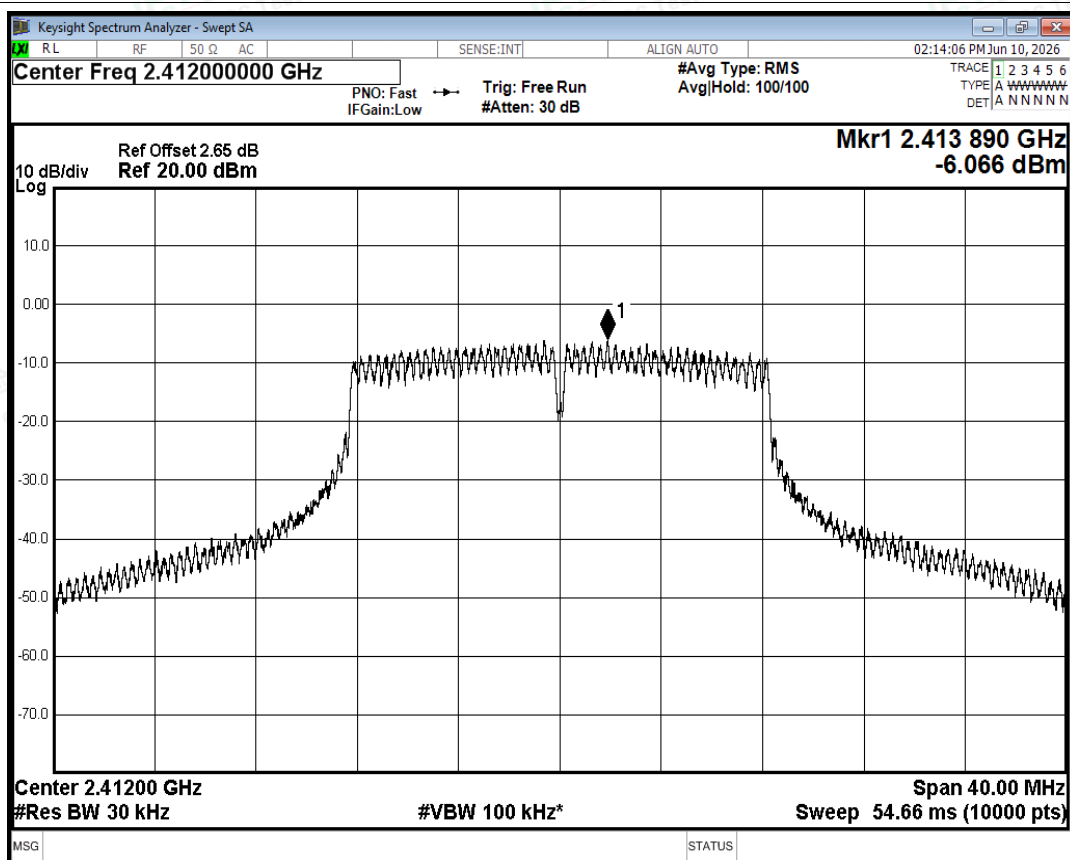
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PSD NVNT b 2462MHz Ant1



PSD NVNT g 2412MHz Ant1

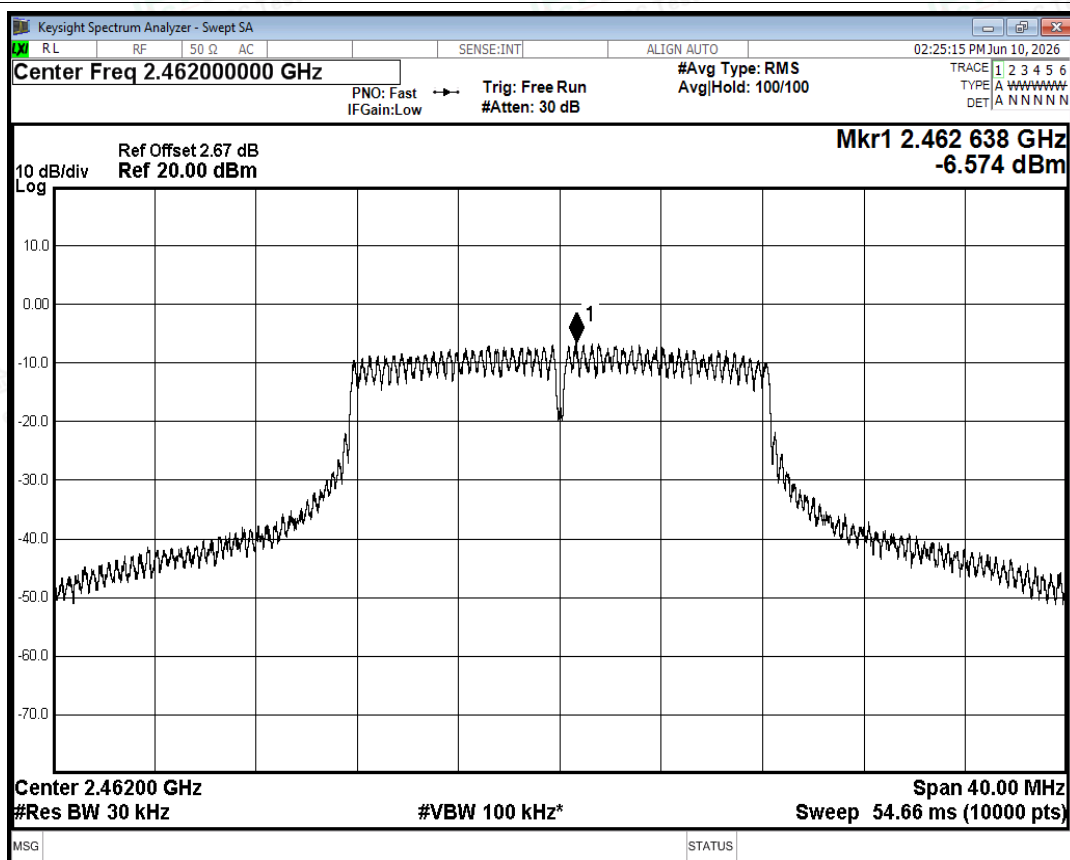
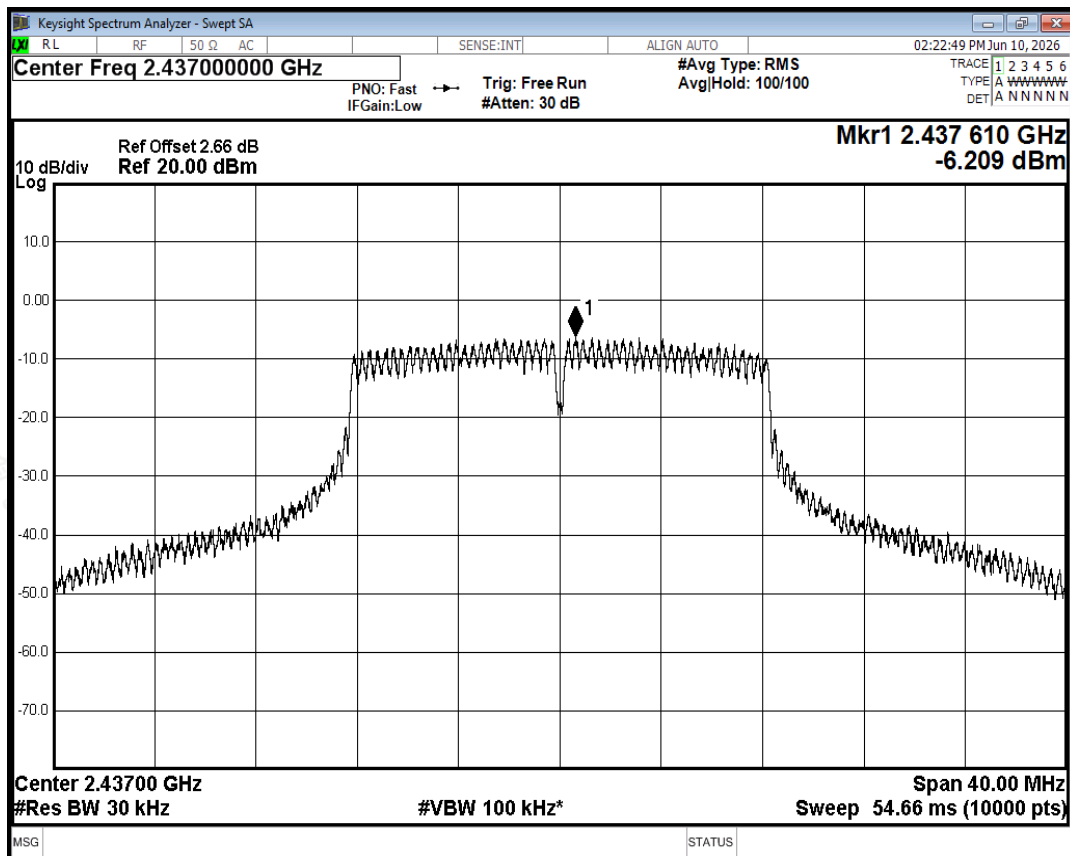


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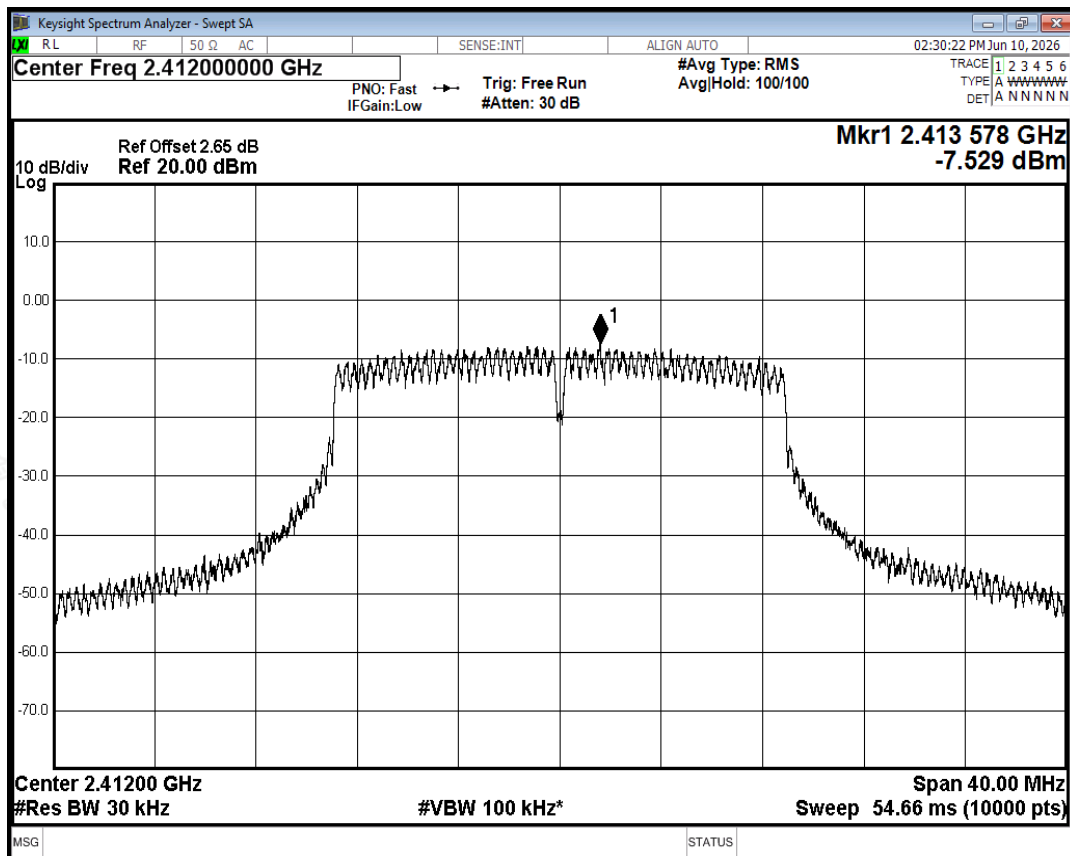


Shenzhen LCS Compliance Testing Laboratory Ltd.

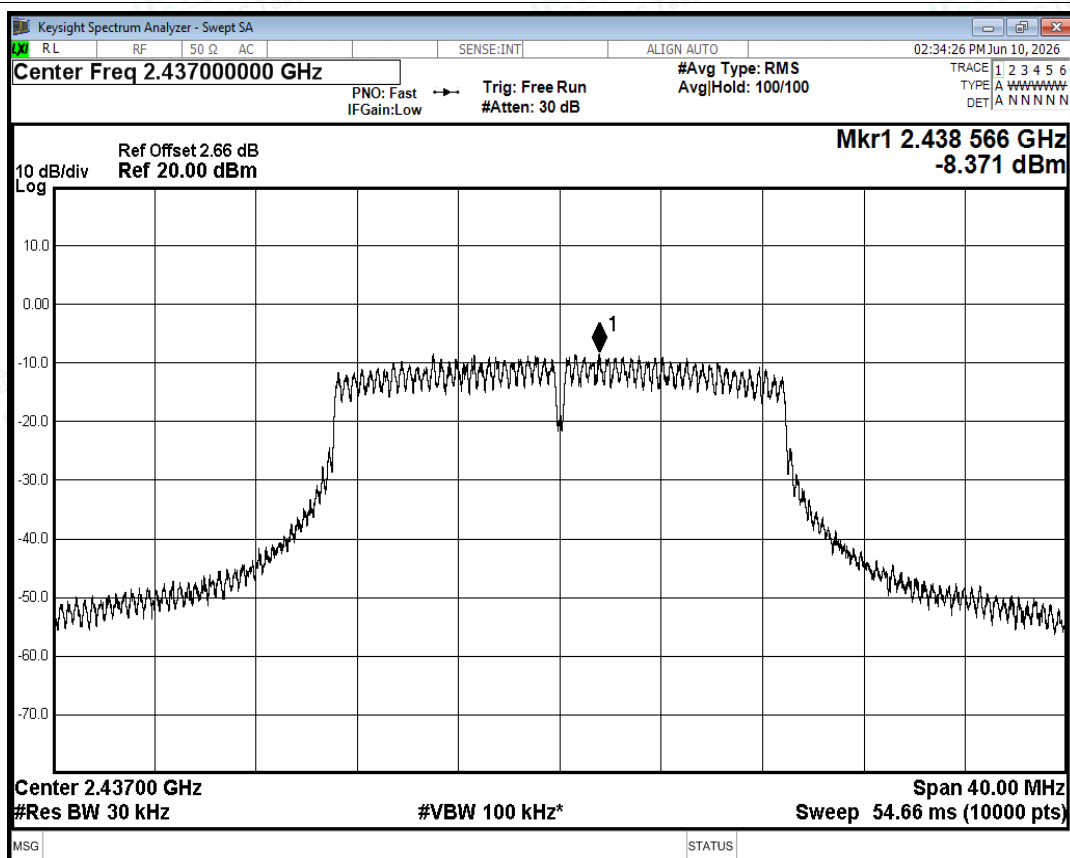
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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PSD NVNT n20 2412MHz Ant1



PSD NVNT n20 2437MHz Ant1

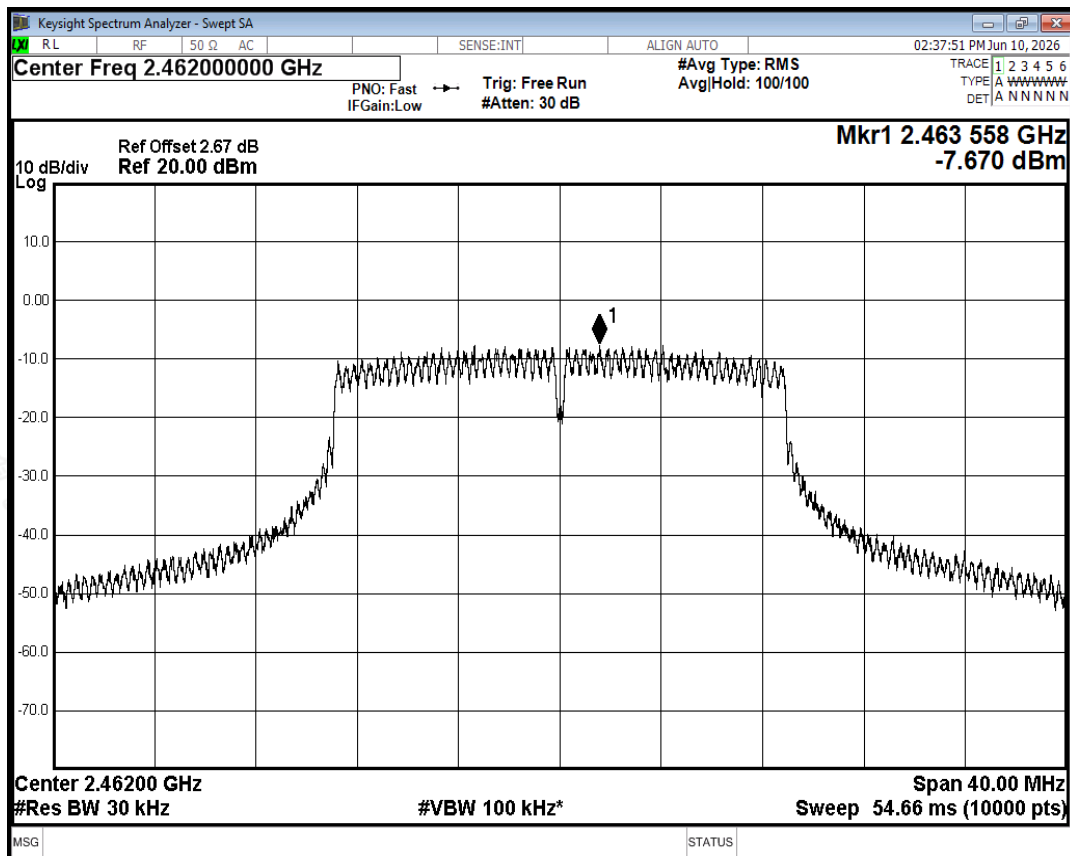


Shenzhen LCS Compliance Testing Laboratory Ltd.

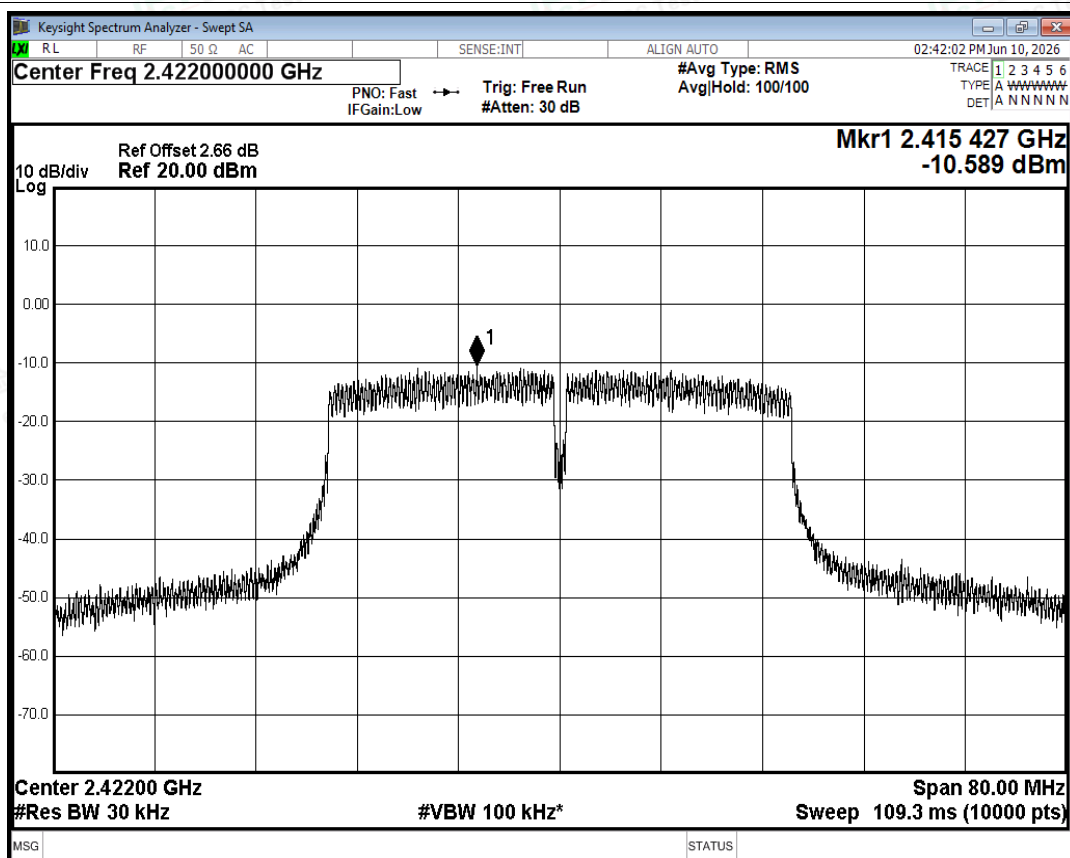
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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PSD NVNT n20 2462MHz Ant1



PSD NVNT n40 2422MHz Ant1

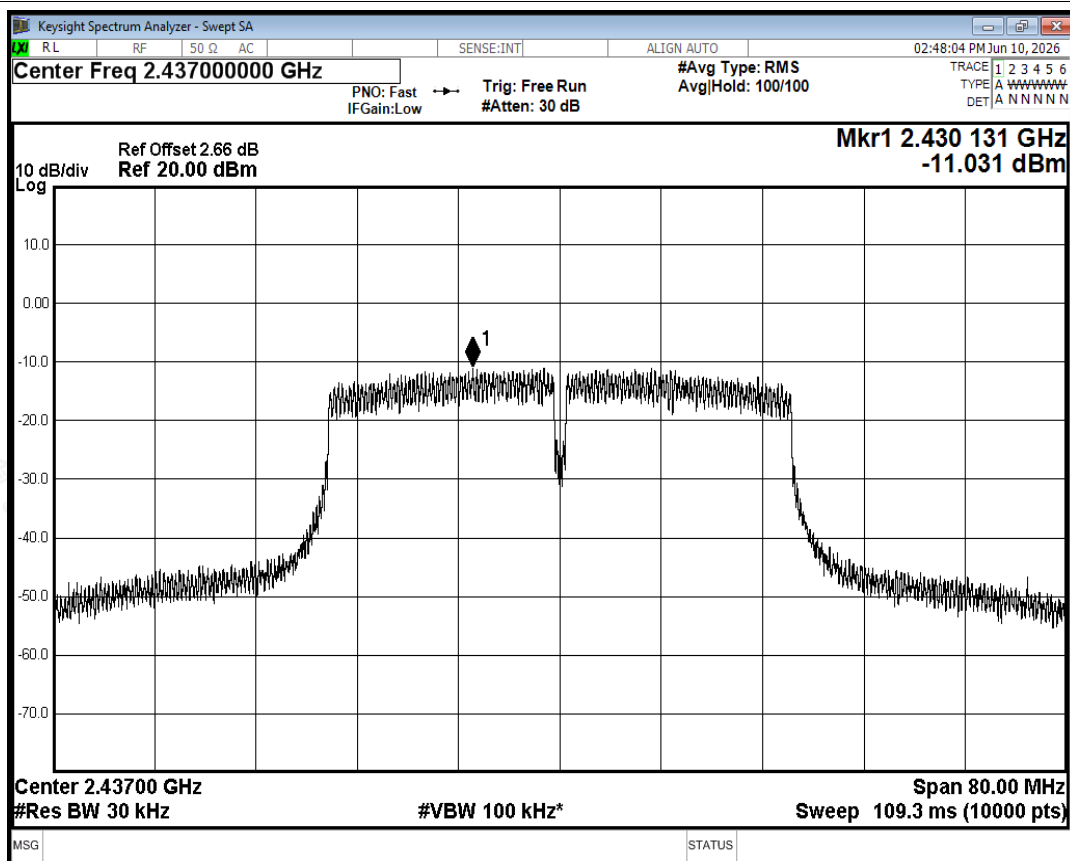


Shenzhen LCS Compliance Testing Laboratory Ltd.

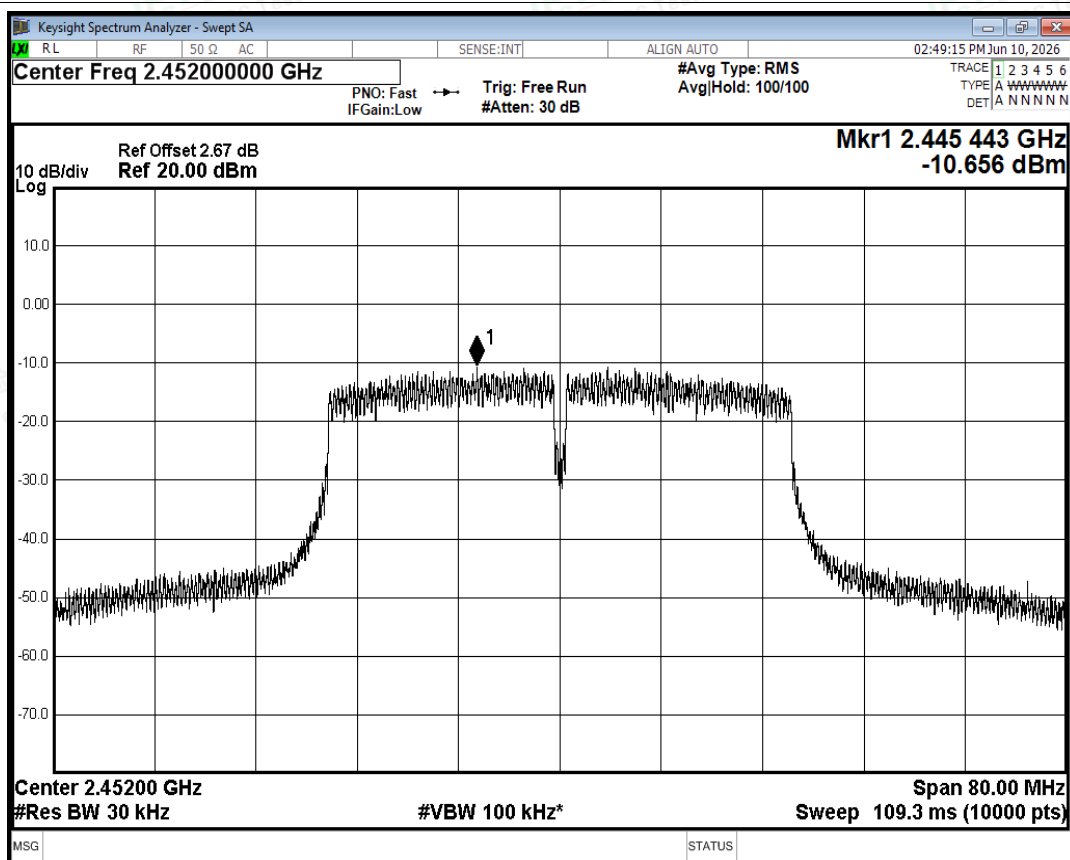
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PSD NVNT n40 2437MHz Ant1



PSD NVNT n40 2452MHz Ant1



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C.4 Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant0	-47.96	-30	Pass
NVNT	b	2462	Ant0	-54.95	-30	Pass
NVNT	g	2412	Ant0	-32.85	-30	Pass
NVNT	g	2462	Ant0	-42.67	-30	Pass
NVNT	n20	2412	Ant0	-30.85	-30	Pass
NVNT	n20	2462	Ant0	-44.24	-30	Pass
NVNT	n40	2422	Ant0	-32.07	-30	Pass
NVNT	n40	2452	Ant0	-36.57	-30	Pass

Note: offset=System attenuation +cabal loss

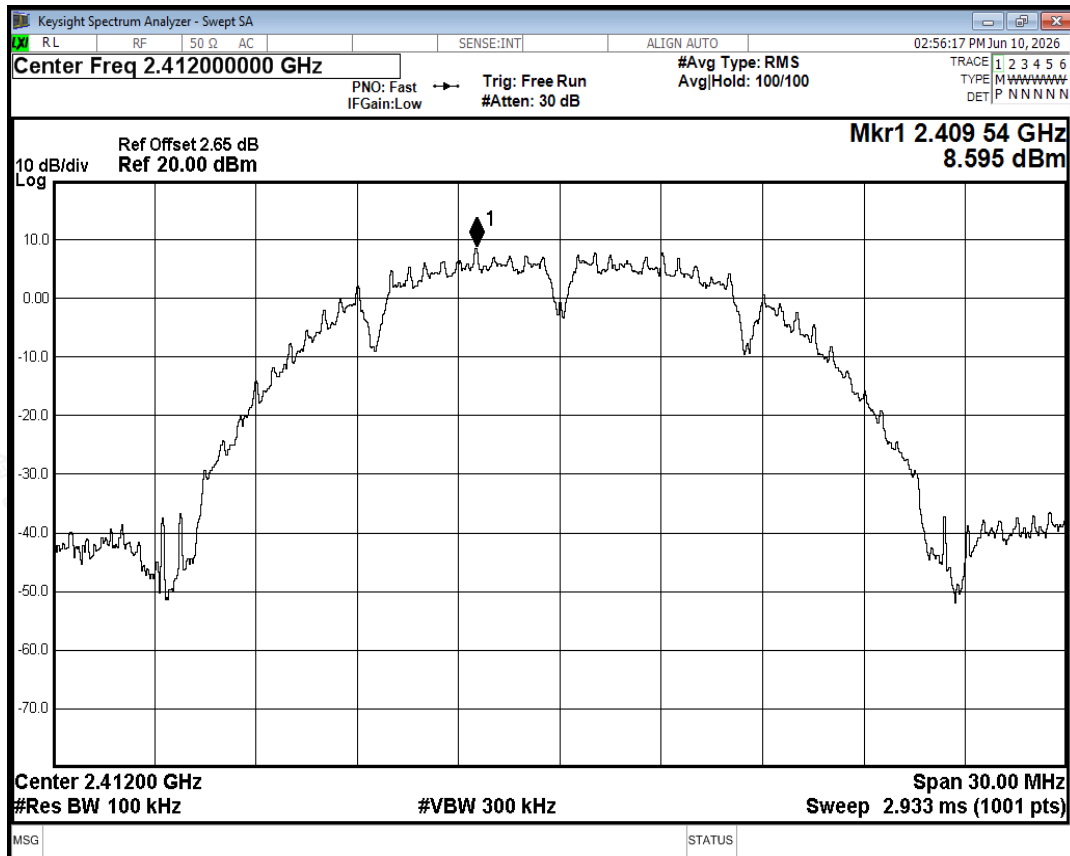


Shenzhen LCS Compliance Testing Laboratory Ltd.

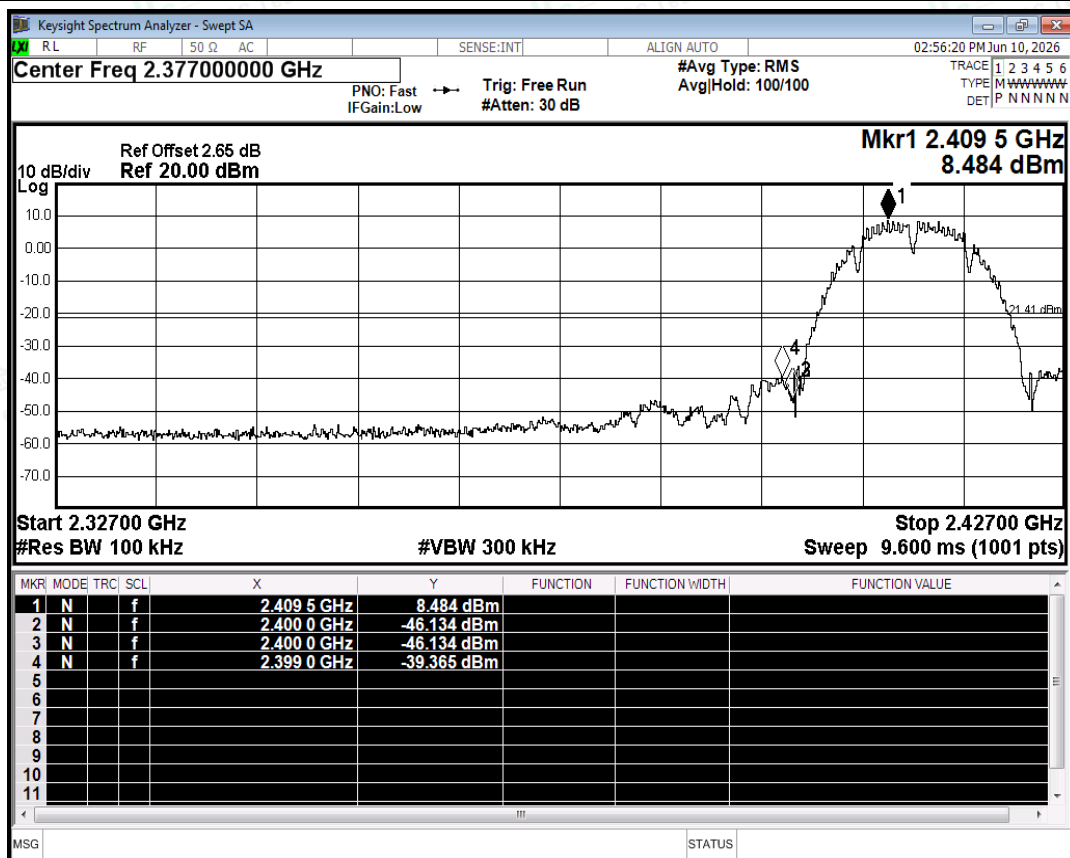
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

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Band Edge NVNT b 2412MHz Ant0 Ref



Band Edge NVNT b 2412MHz Ant0 Emission

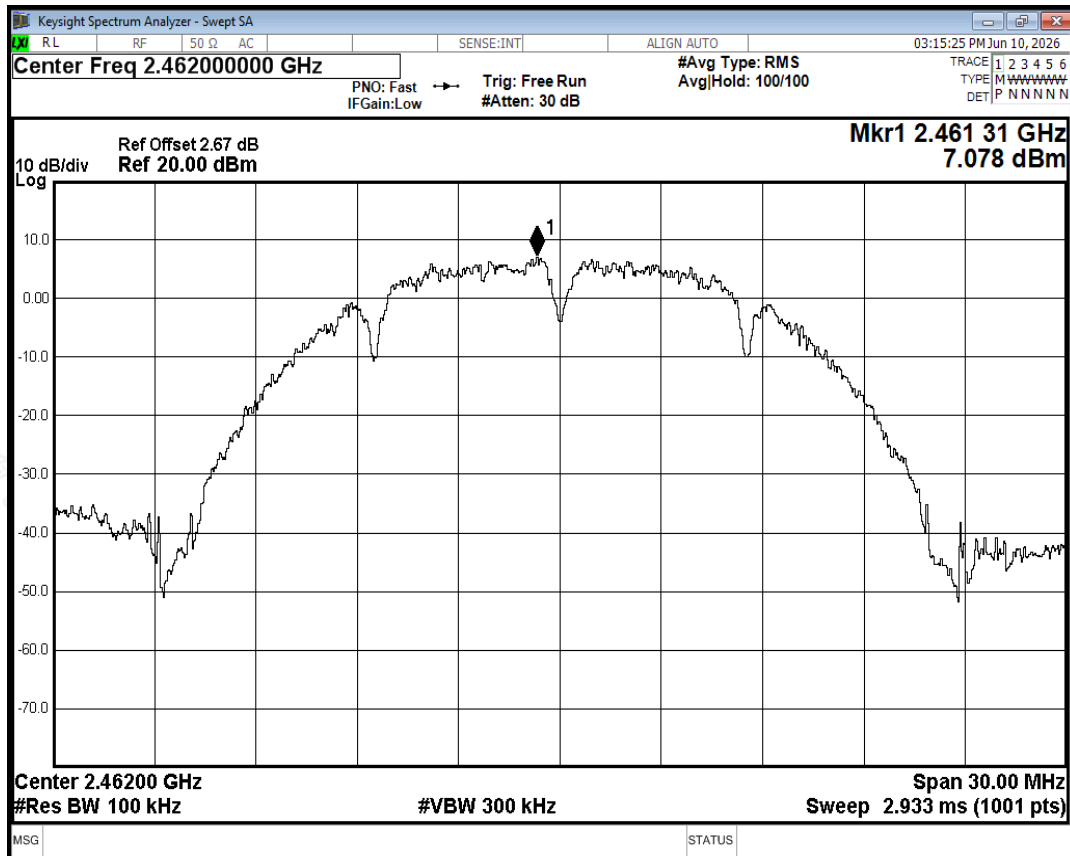


Shenzhen LCS Compliance Testing Laboratory Ltd.

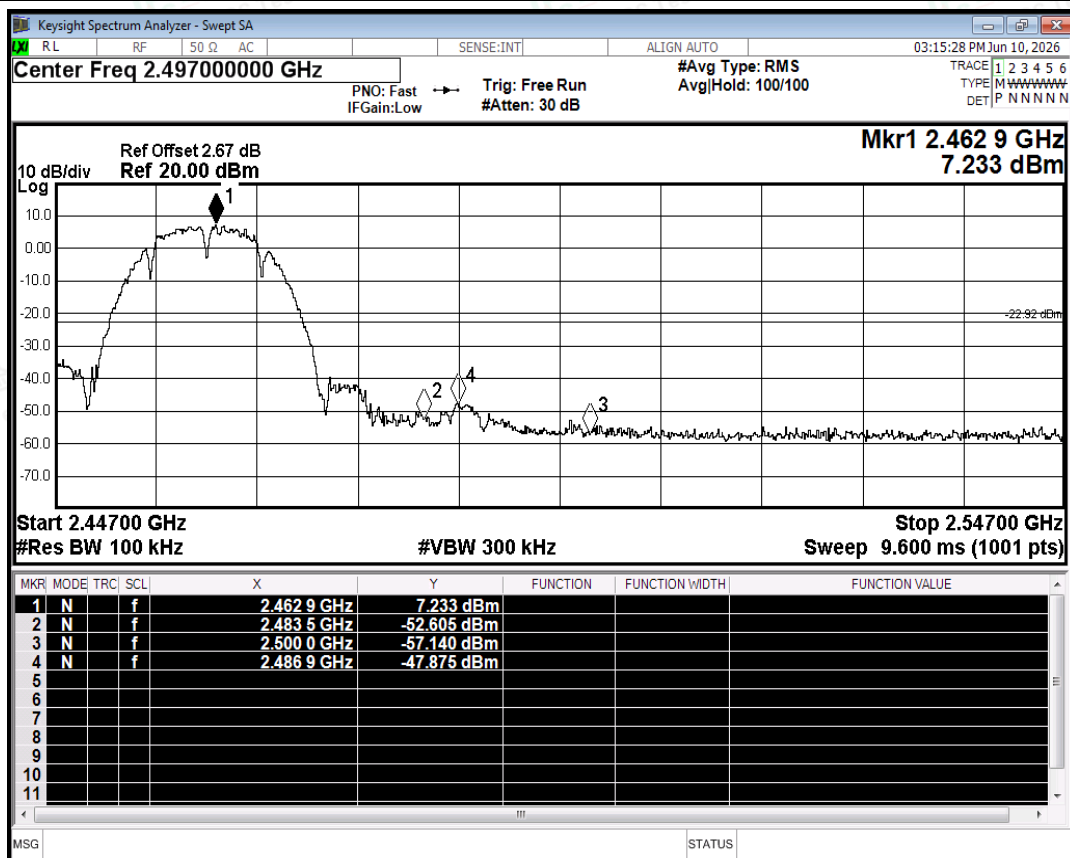
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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Band Edge NVNT b 2462MHz Ant0 Ref



Band Edge NVNT b 2462MHz Ant0 Emission

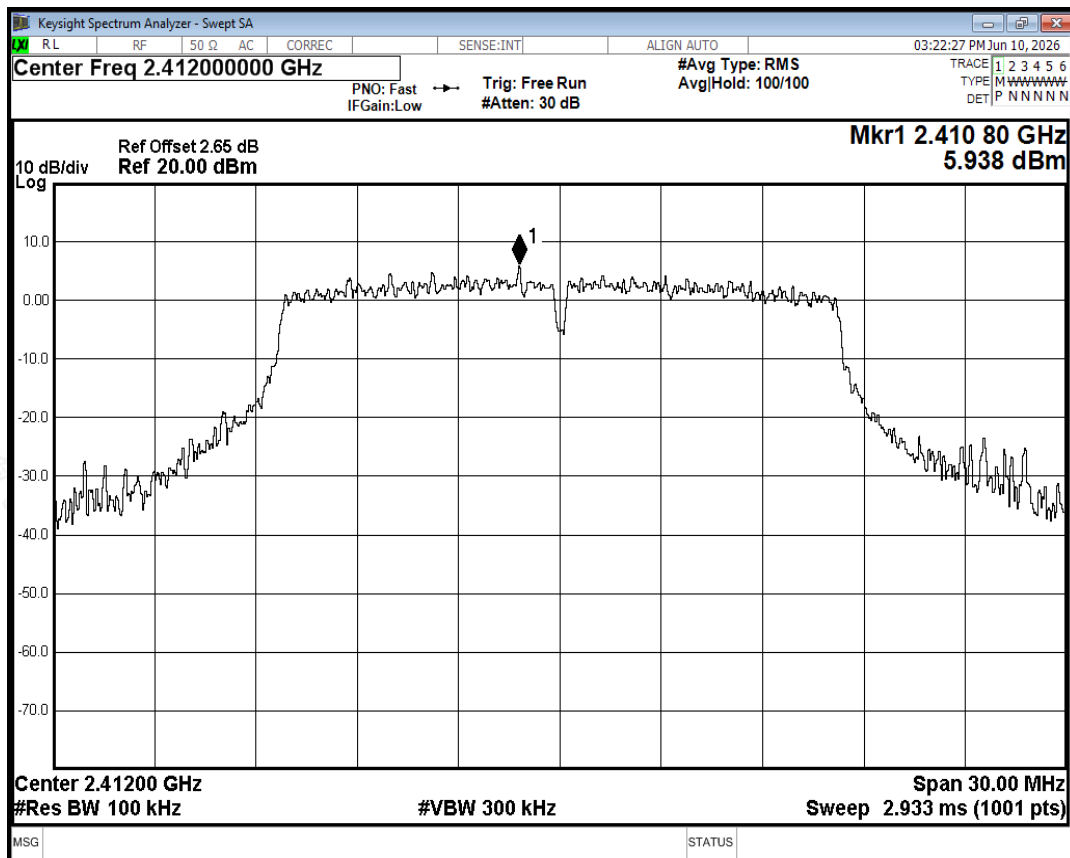


Shenzhen LCS Compliance Testing Laboratory Ltd.

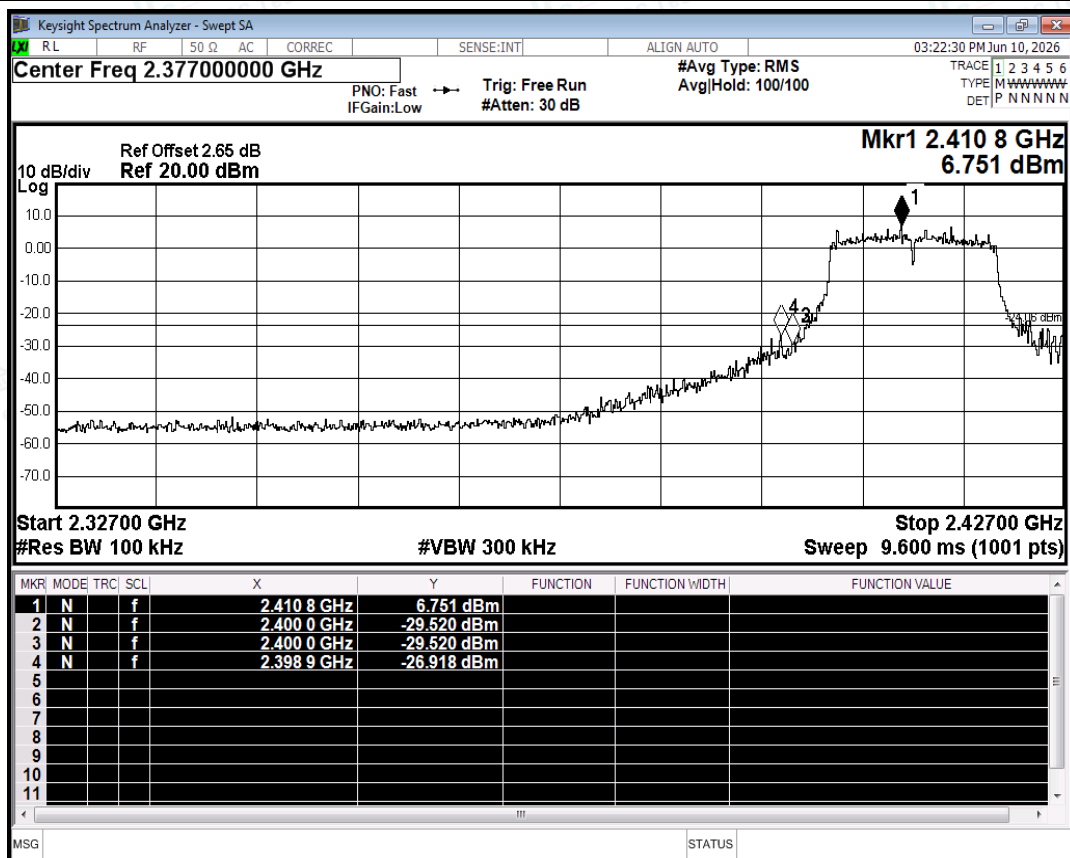
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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Band Edge NVNT g 2412MHz Ant0 Ref



Band Edge NVNT g 2412MHz Ant0 Emission

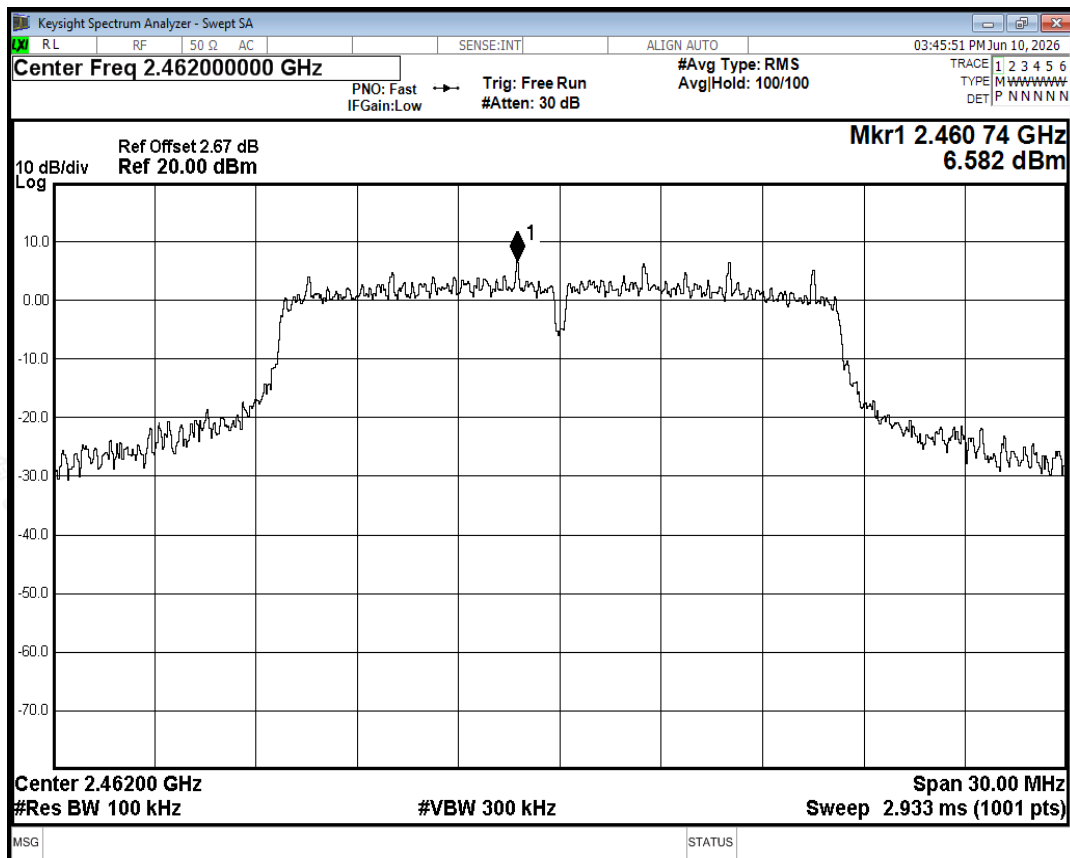


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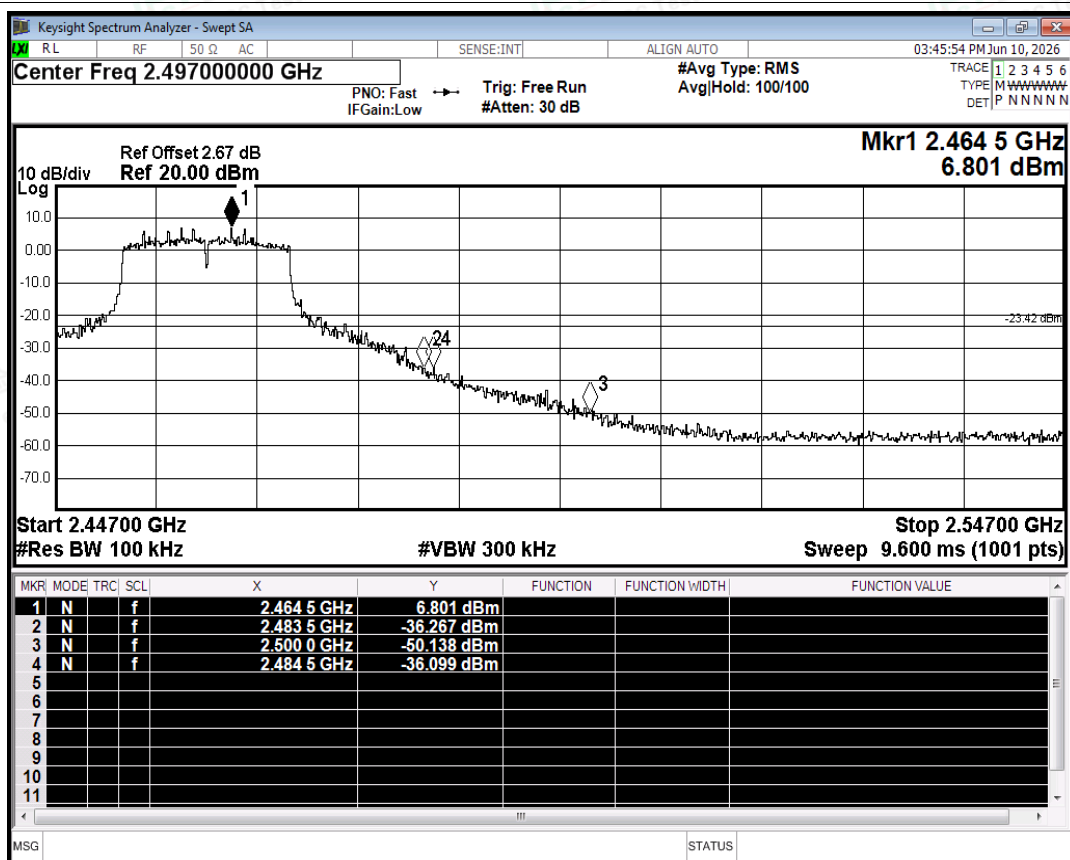
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Band Edge NVNT g 2462MHz Ant0 Ref



Band Edge NVNT g 2462MHz Ant0 Emission

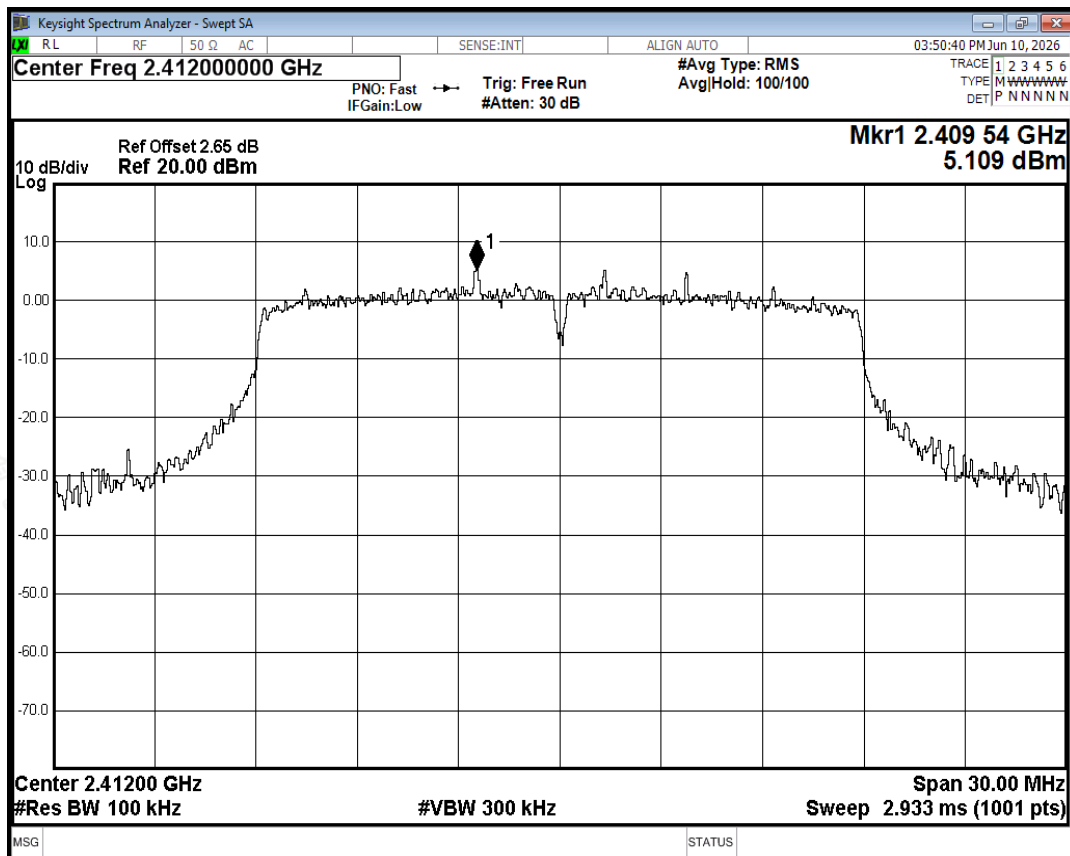


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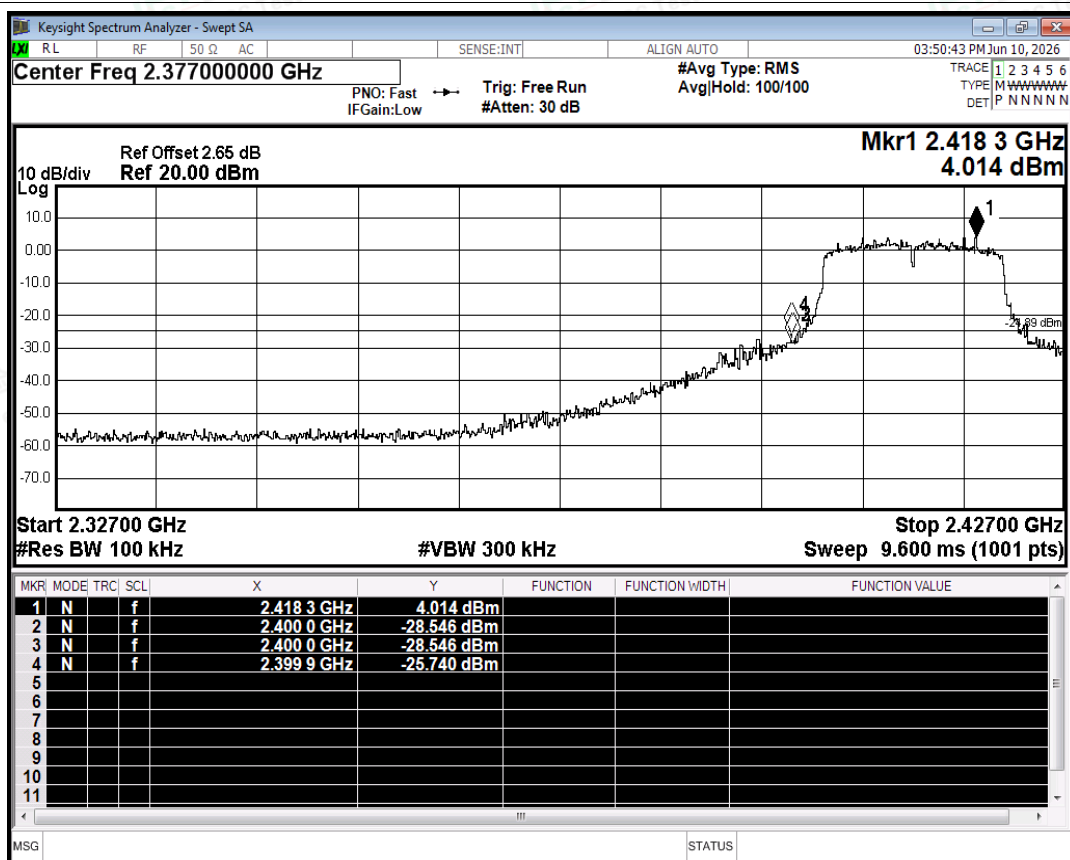
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Band Edge NVNT n20 2412MHz Ant0 Emission

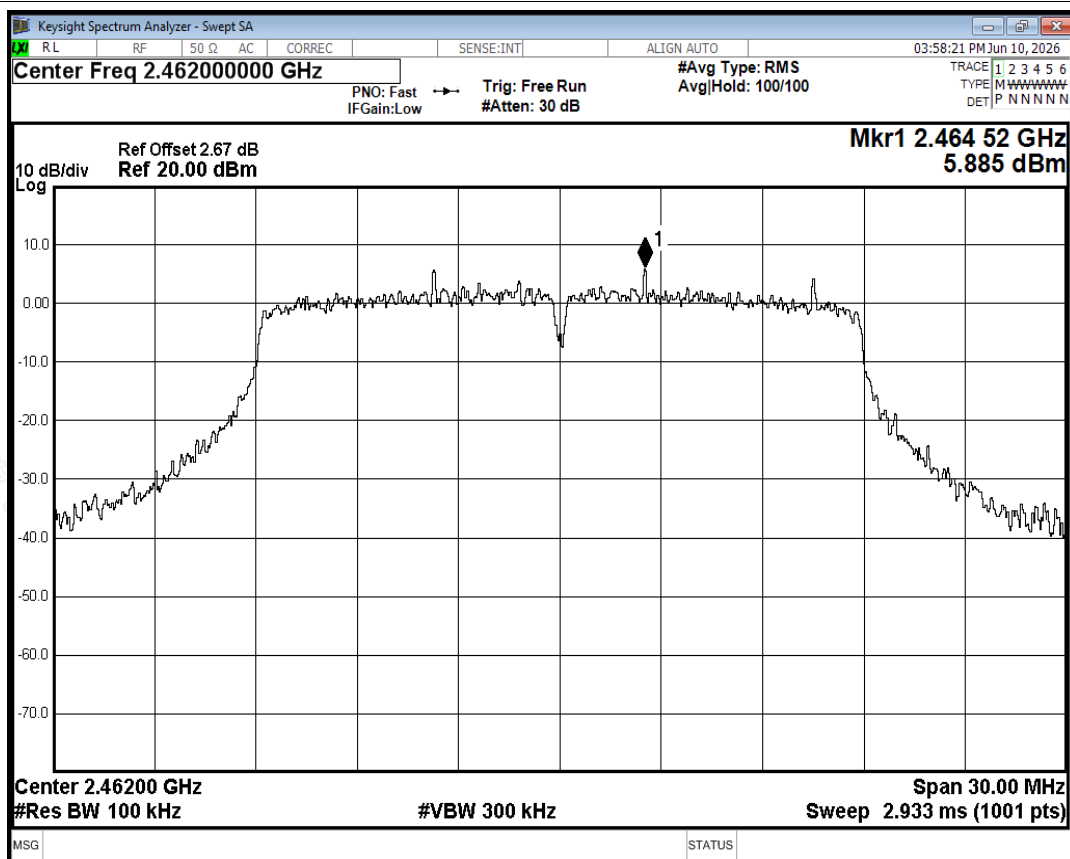


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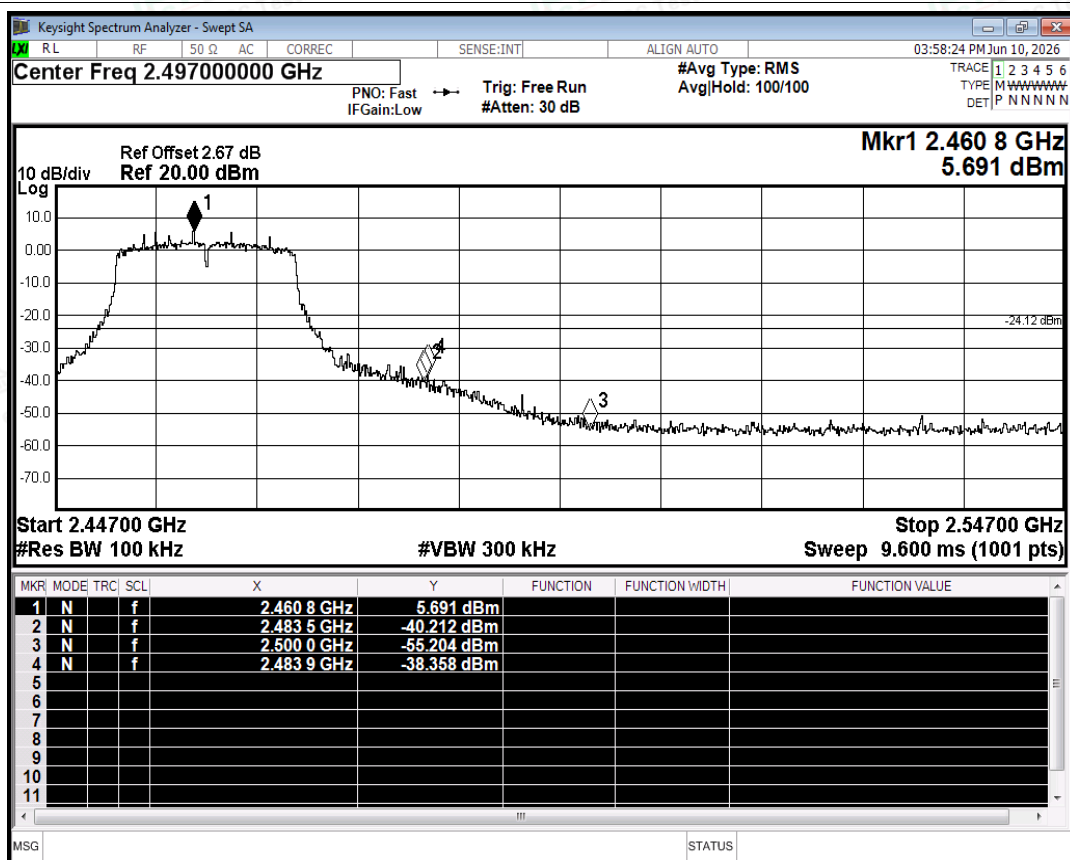
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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Band Edge NVNT n20 2462MHz Ant0 Ref



Band Edge NVNT n20 2462MHz Ant0 Emission

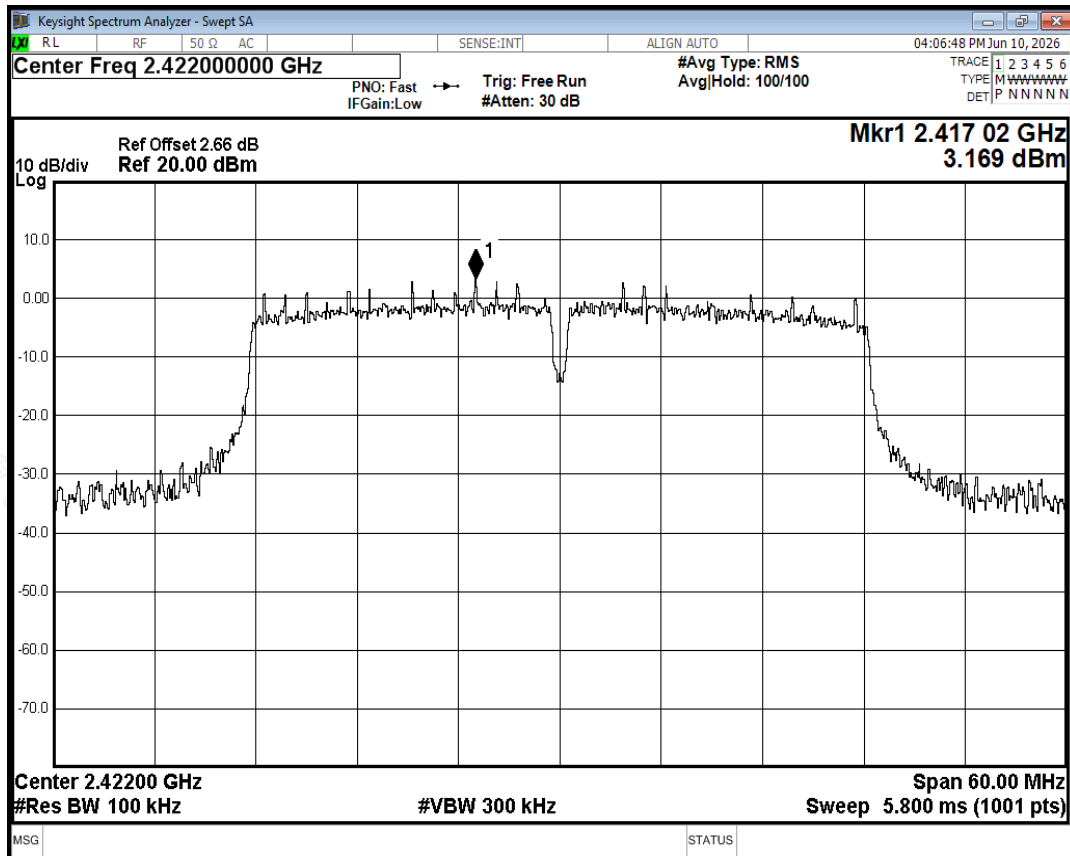


Shenzhen LCS Compliance Testing Laboratory Ltd.

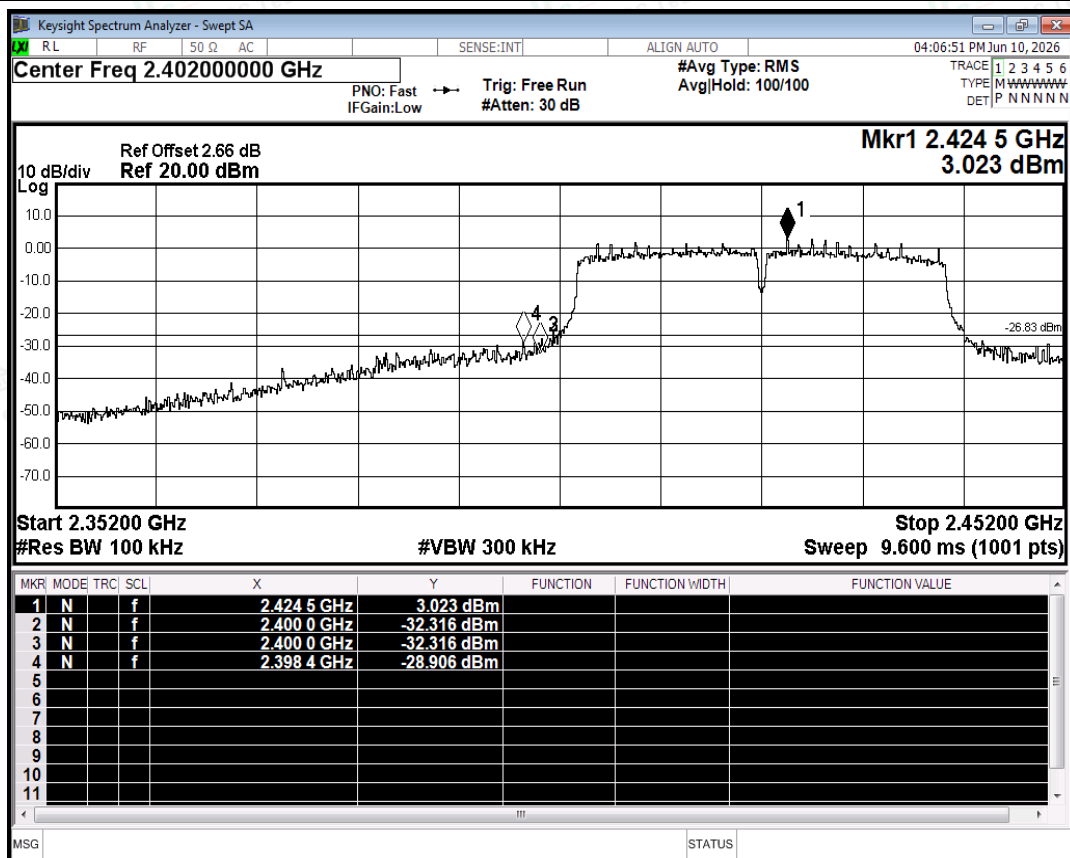
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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Band Edge NVNT n40 2422MHz Ant0 Ref



Band Edge NVNT n40 2422MHz Ant0 Emission

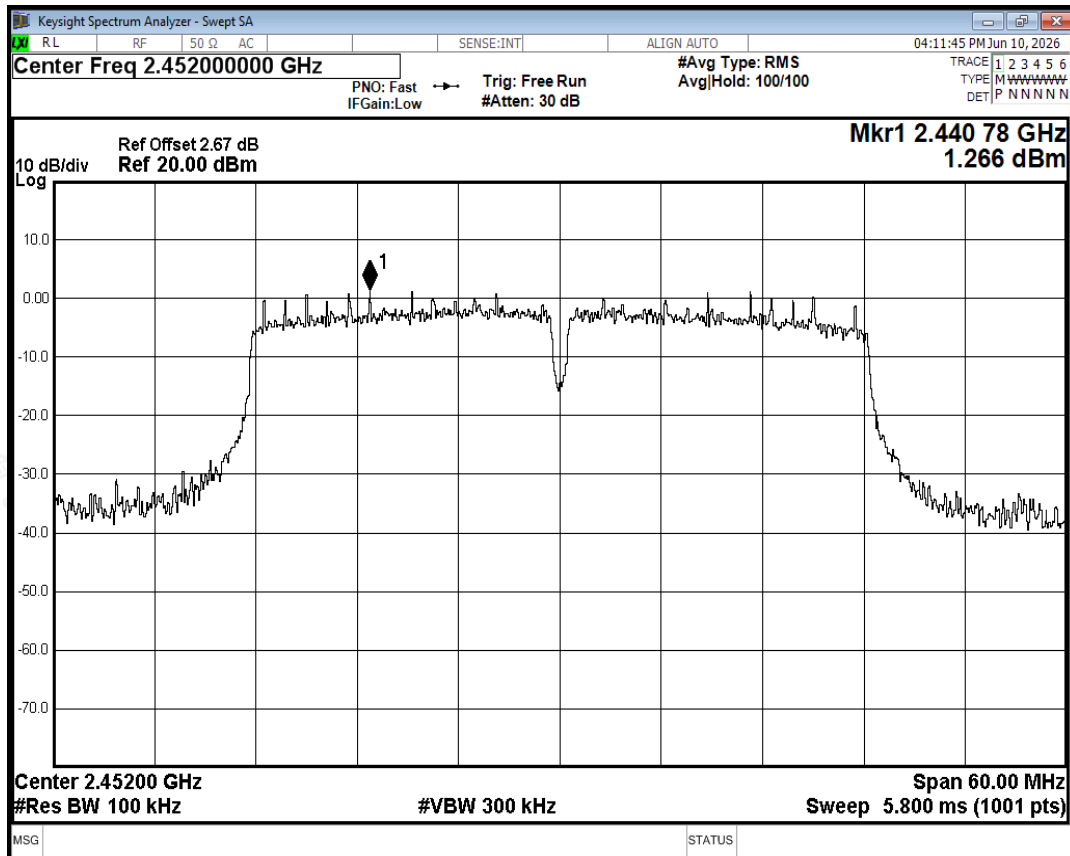


Shenzhen LCS Compliance Testing Laboratory Ltd.

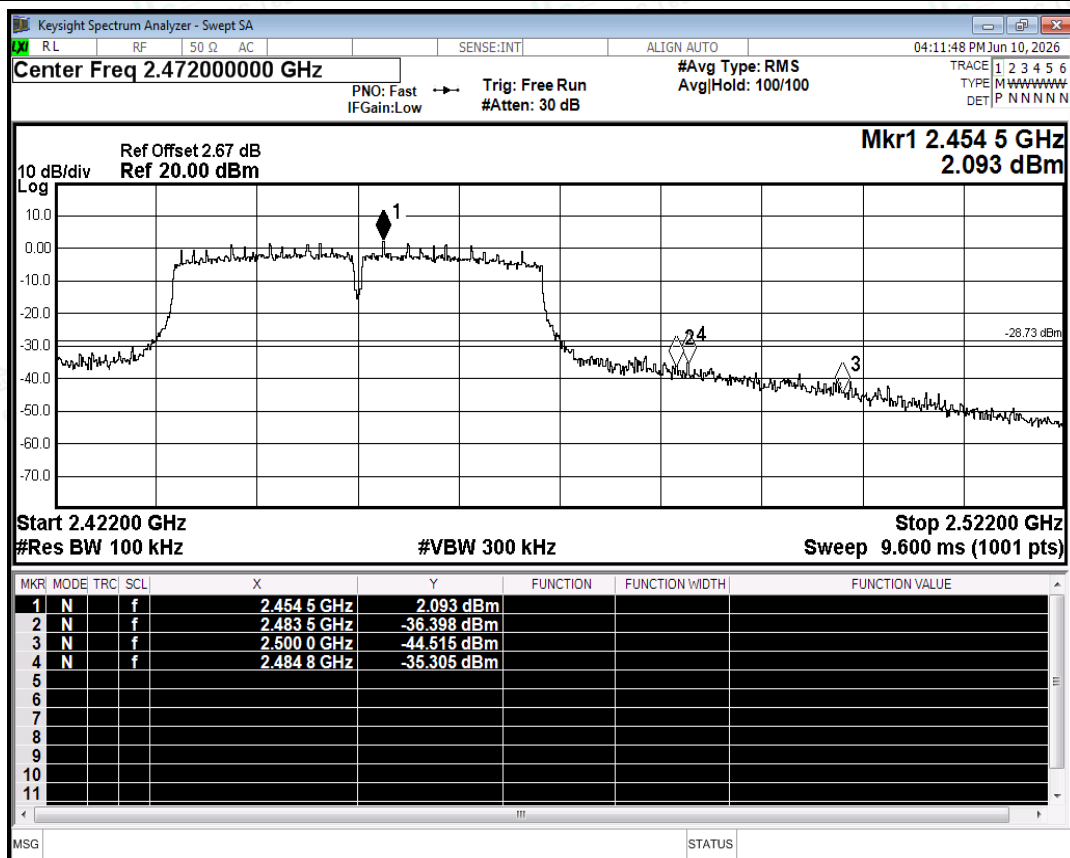
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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Band Edge NVNT n40 2452MHz Ant0 Ref



Band Edge NVNT n40 2452MHz Ant0 Emission



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Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-38.22	-30	Pass
NVNT	b	2462	Ant1	-58	-30	Pass
NVNT	g	2412	Ant1	-30.13	-30	Pass
NVNT	g	2462	Ant1	-42.65	-30	Pass
NVNT	n20	2412	Ant1	-31.98	-30	Pass
NVNT	n20	2462	Ant1	-40.61	-30	Pass
NVNT	n40	2422	Ant1	-30.24	-30	Pass
NVNT	n40	2452	Ant1	-34.7	-30	Pass

Note: offset=System attenuation +cabal loss

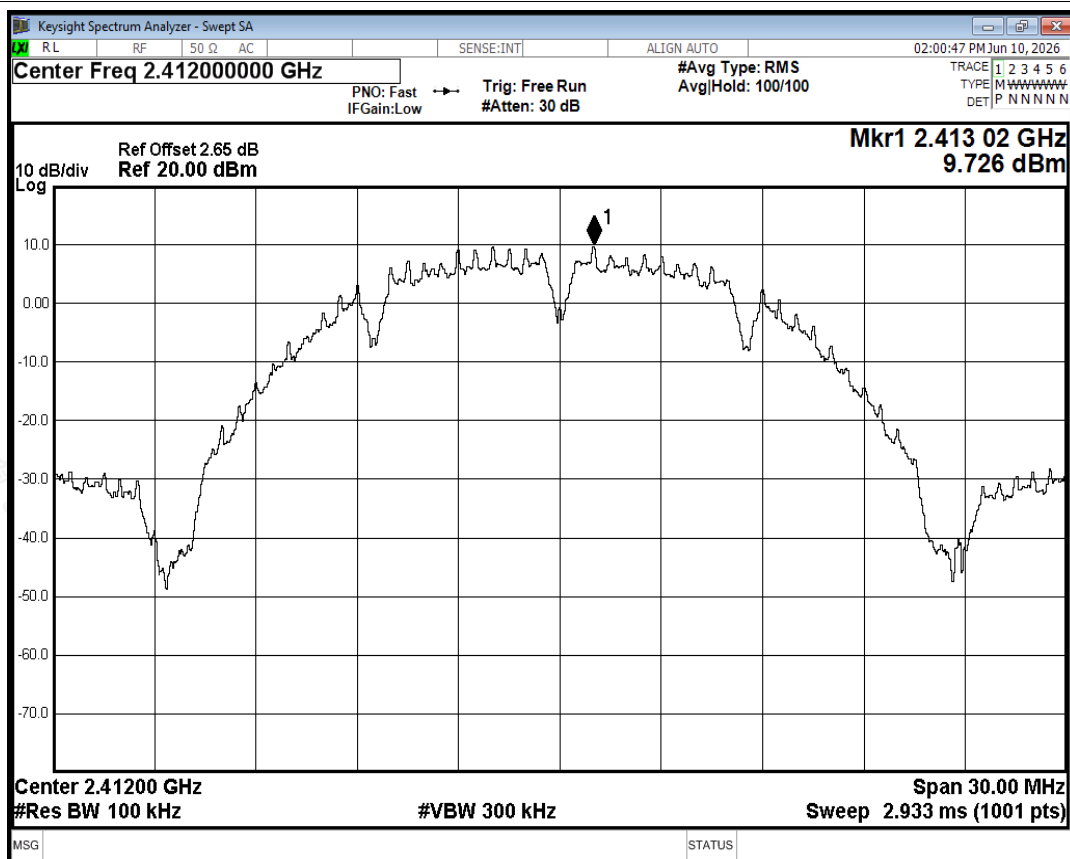


Shenzhen LCS Compliance Testing Laboratory Ltd.

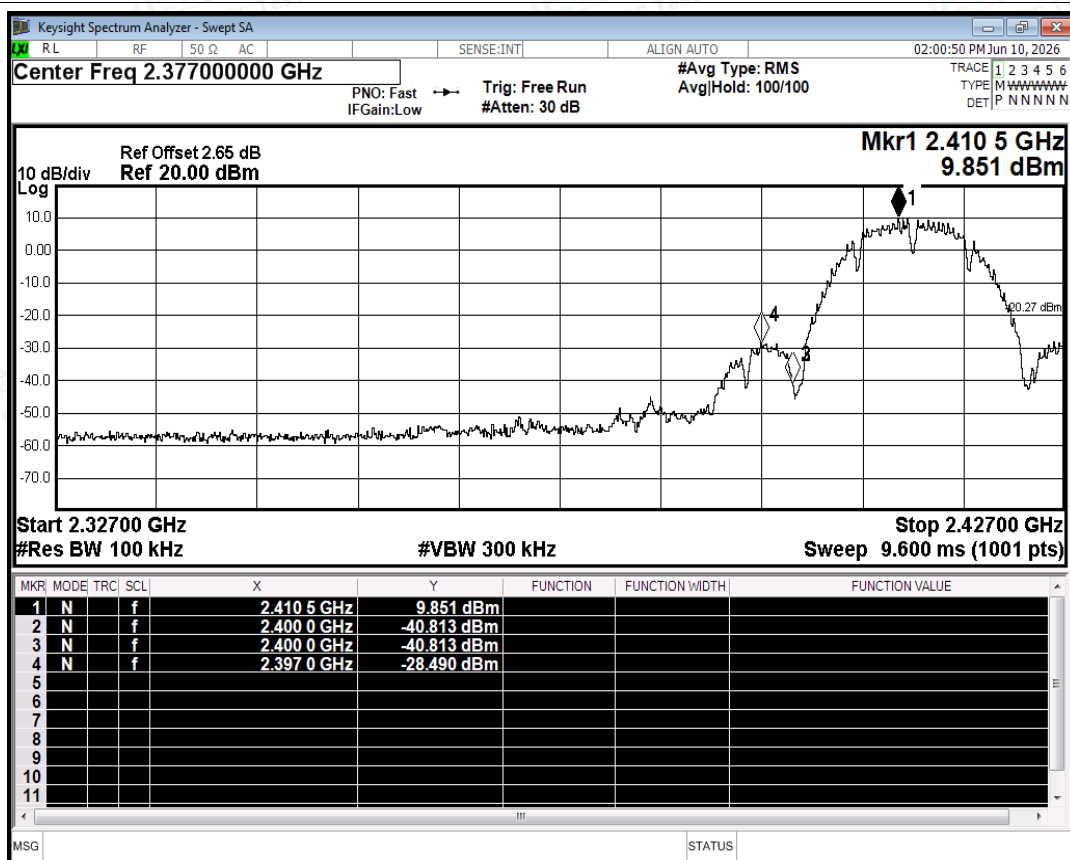
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Band Edge NVNT b 2412MHz Ant1 Emission

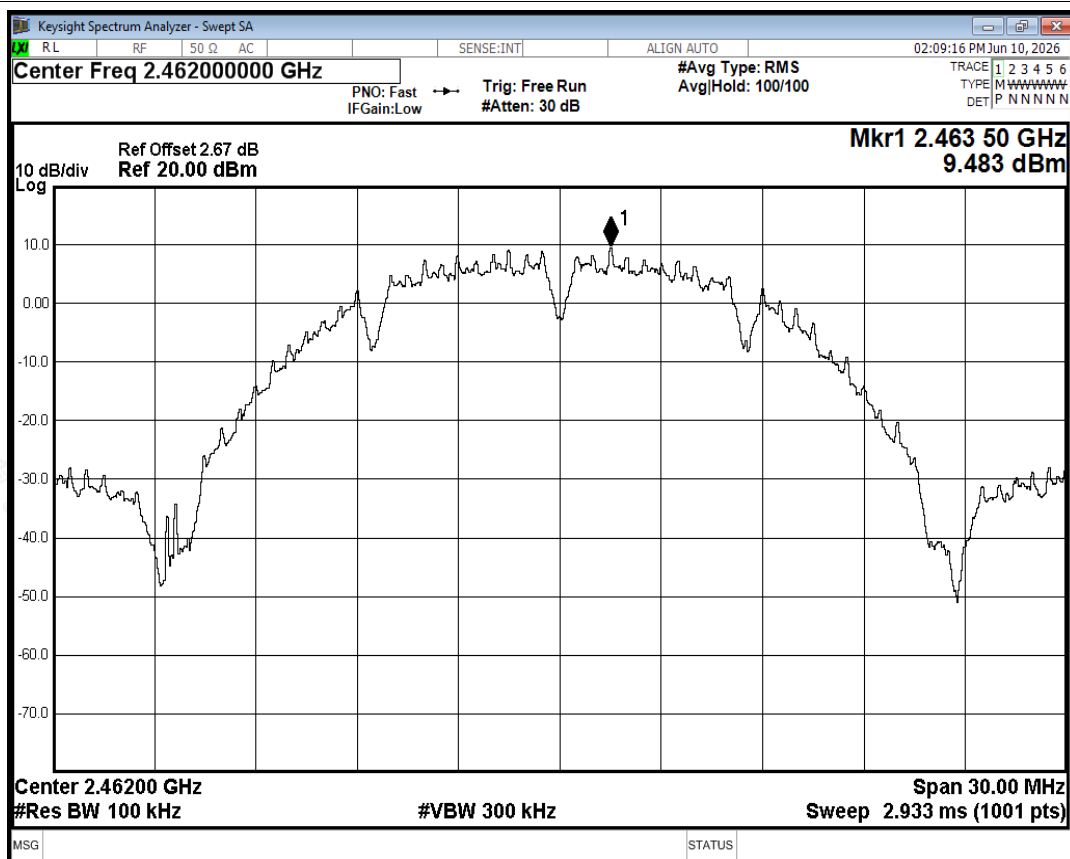


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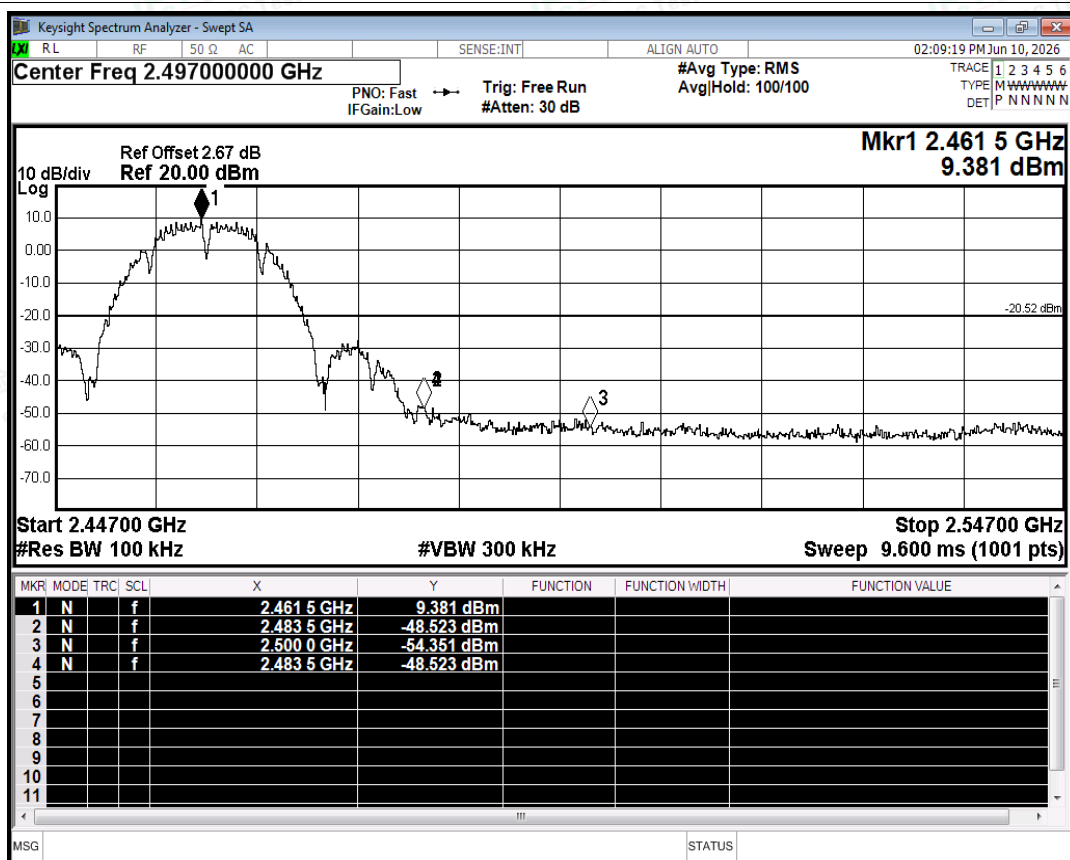
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Band Edge NVNT b 2462MHz Ant1 Emission

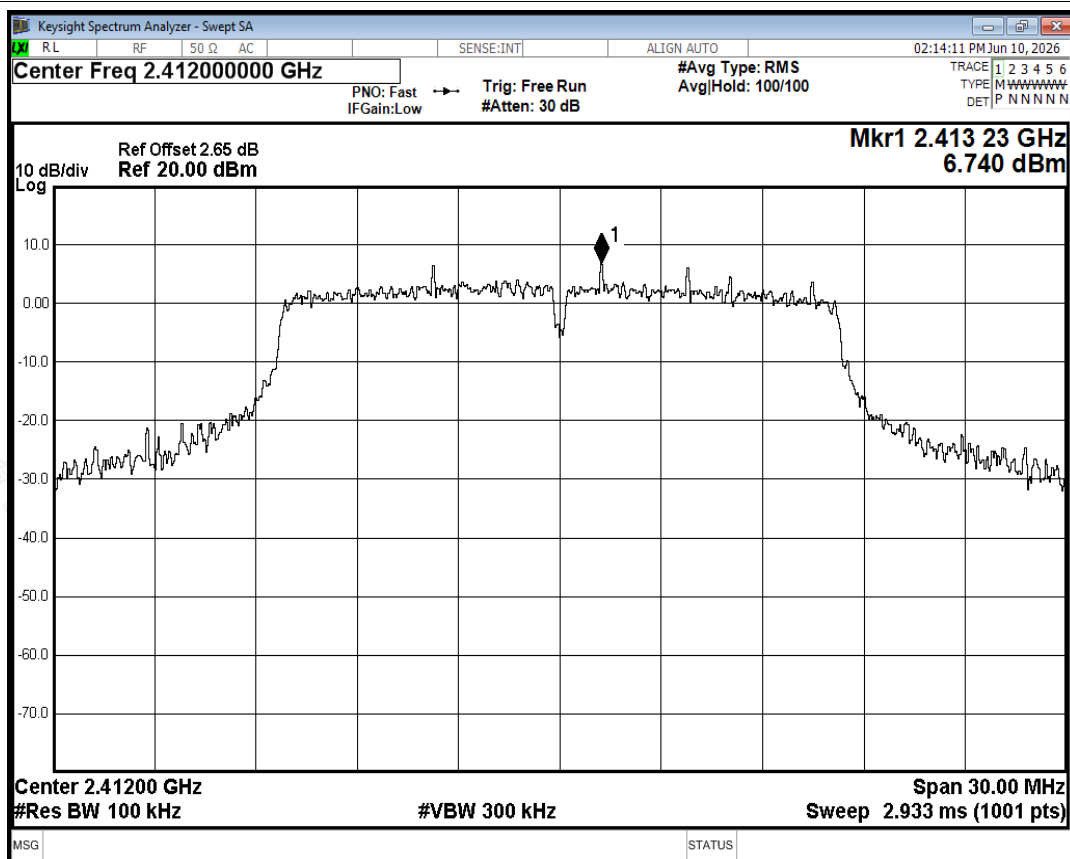


Shenzhen LCS Compliance Testing Laboratory Ltd.

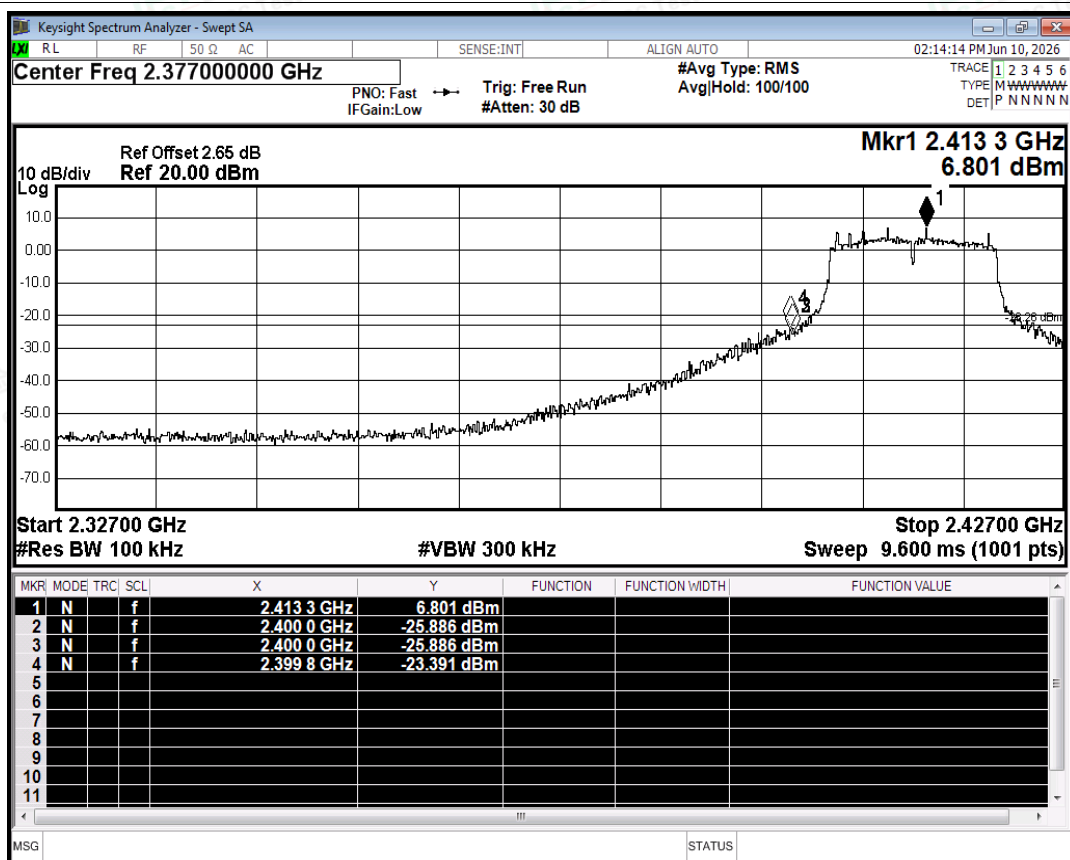
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Band Edge NVNT g 2412MHz Ant1 Emission

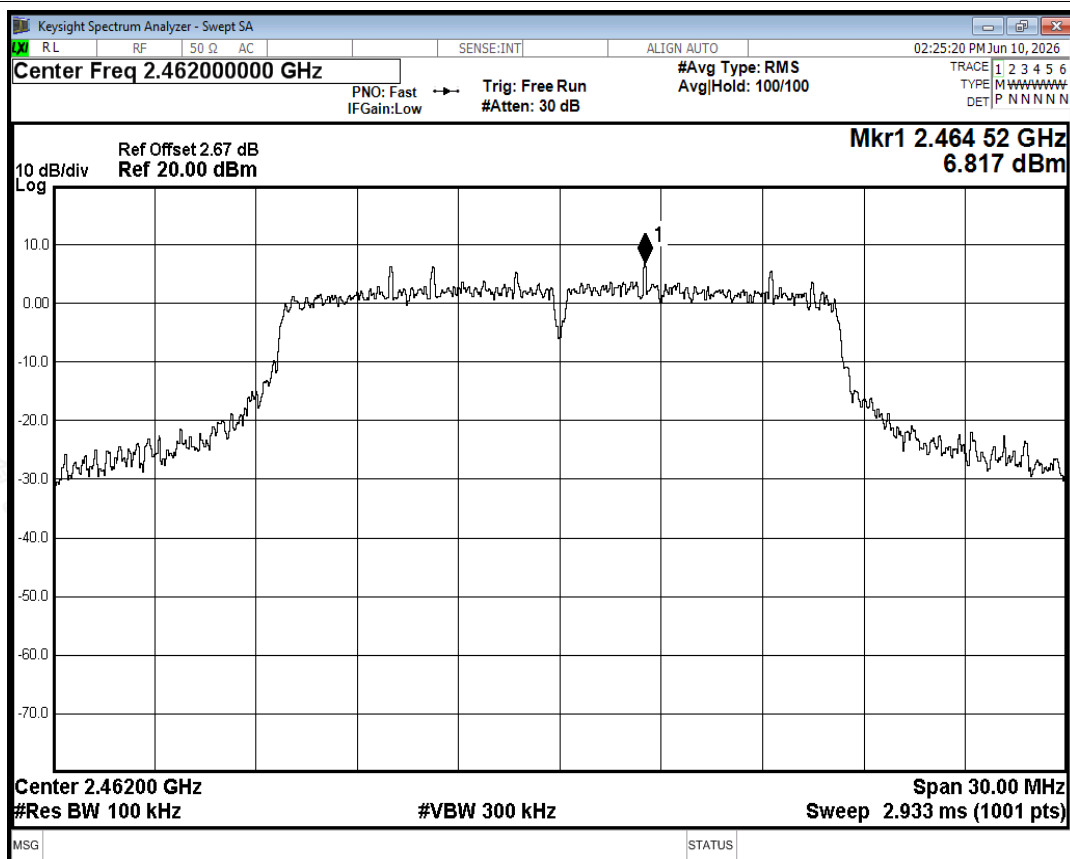


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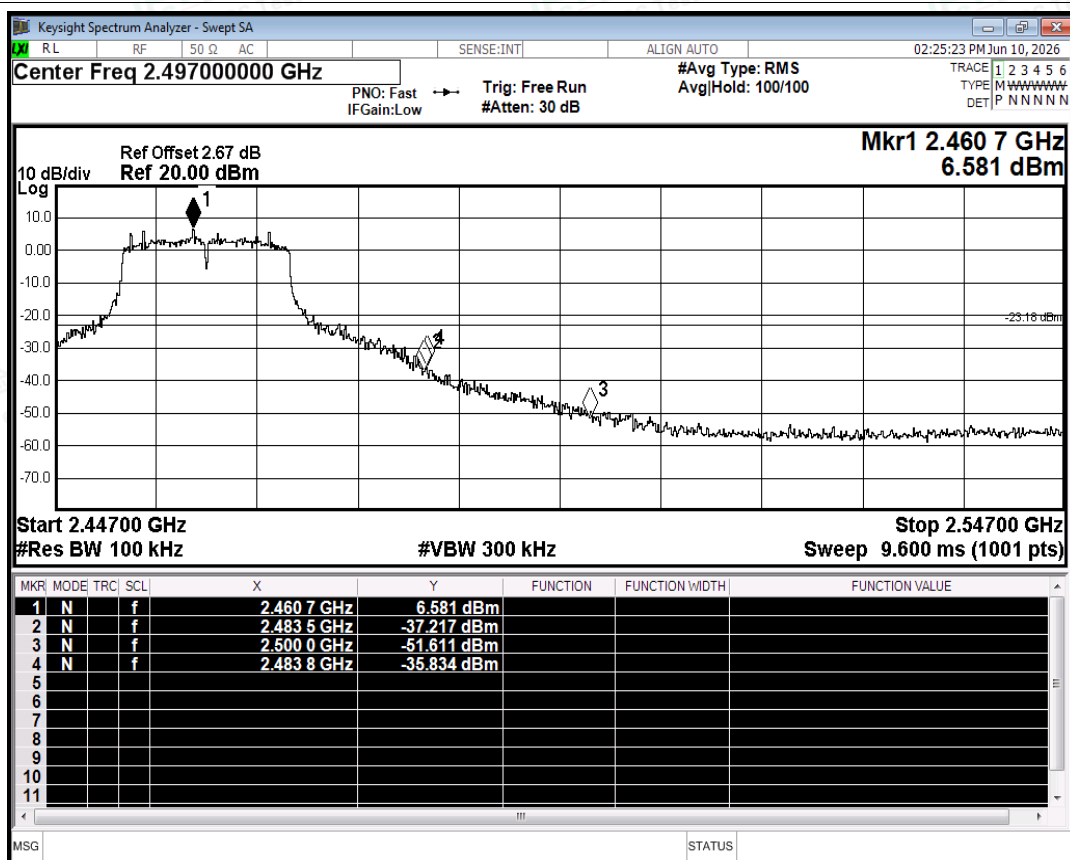
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Band Edge NVNT g 2462MHz Ant1 Ref



Band Edge NVNT g 2462MHz Ant1 Emission

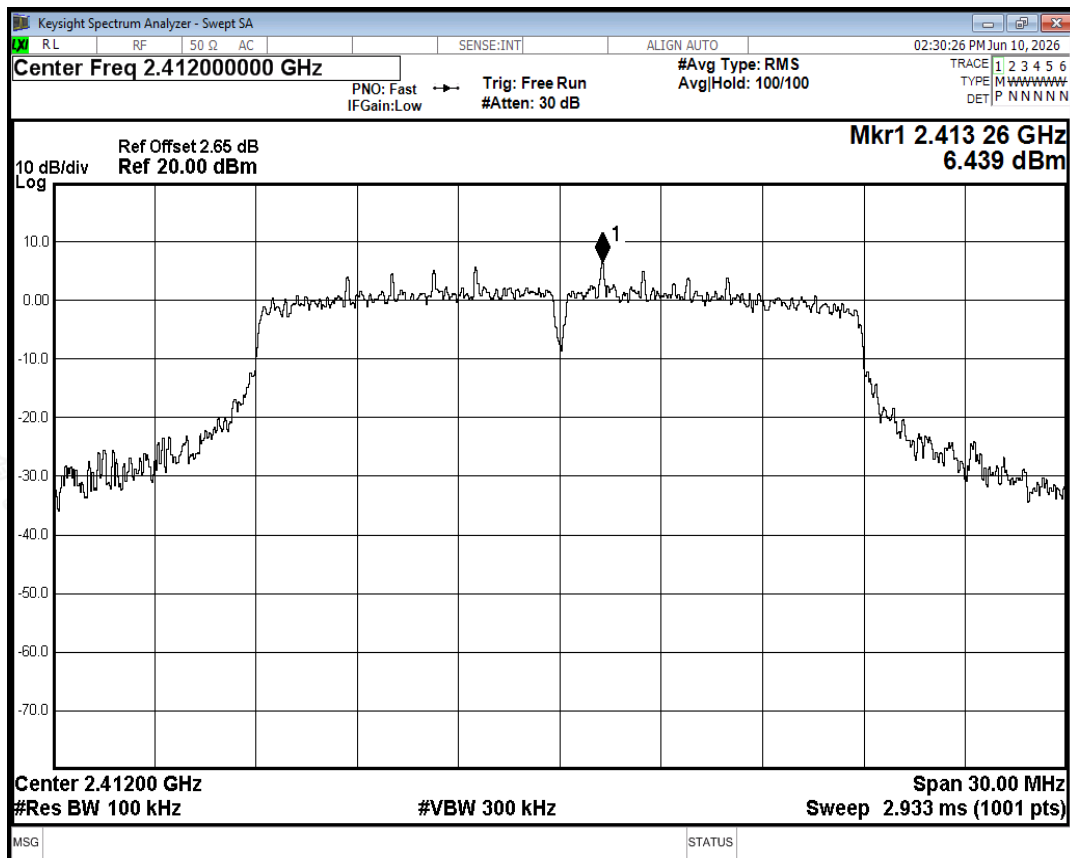


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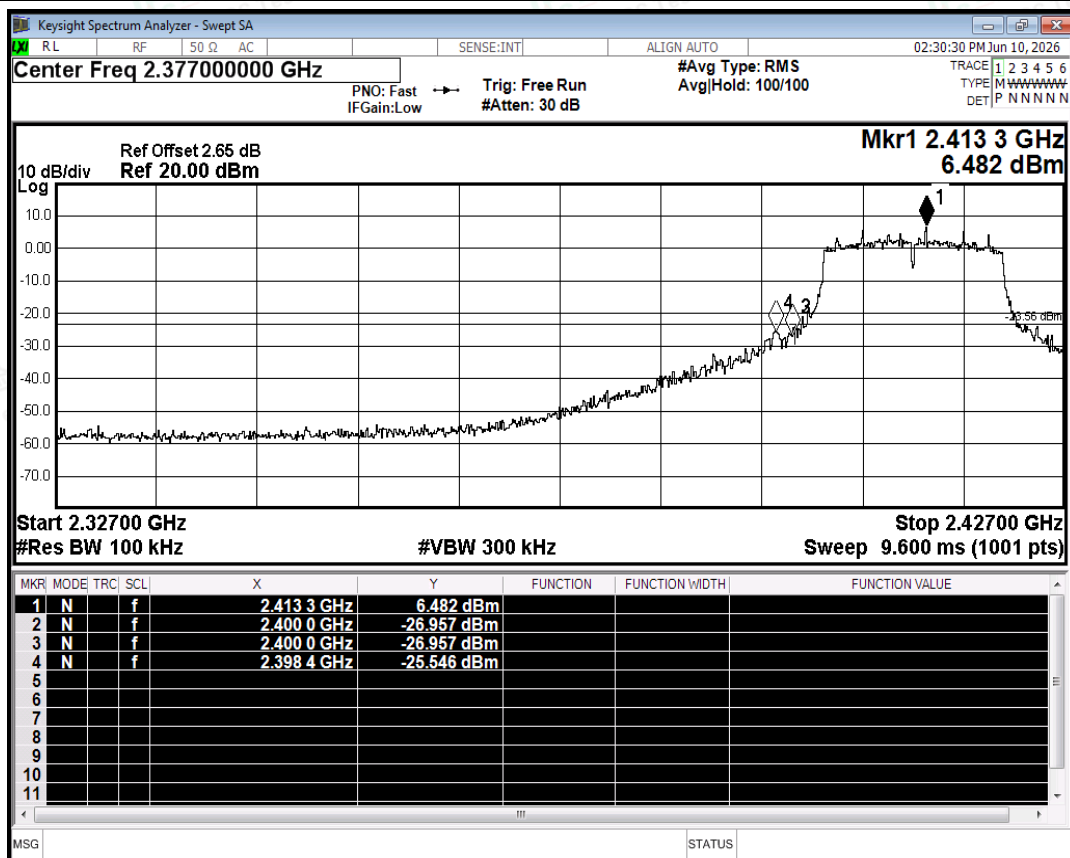
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Band Edge NVNT n20 2412MHz Ant1 Ref



Band Edge NVNT n20 2412MHz Ant1 Emission

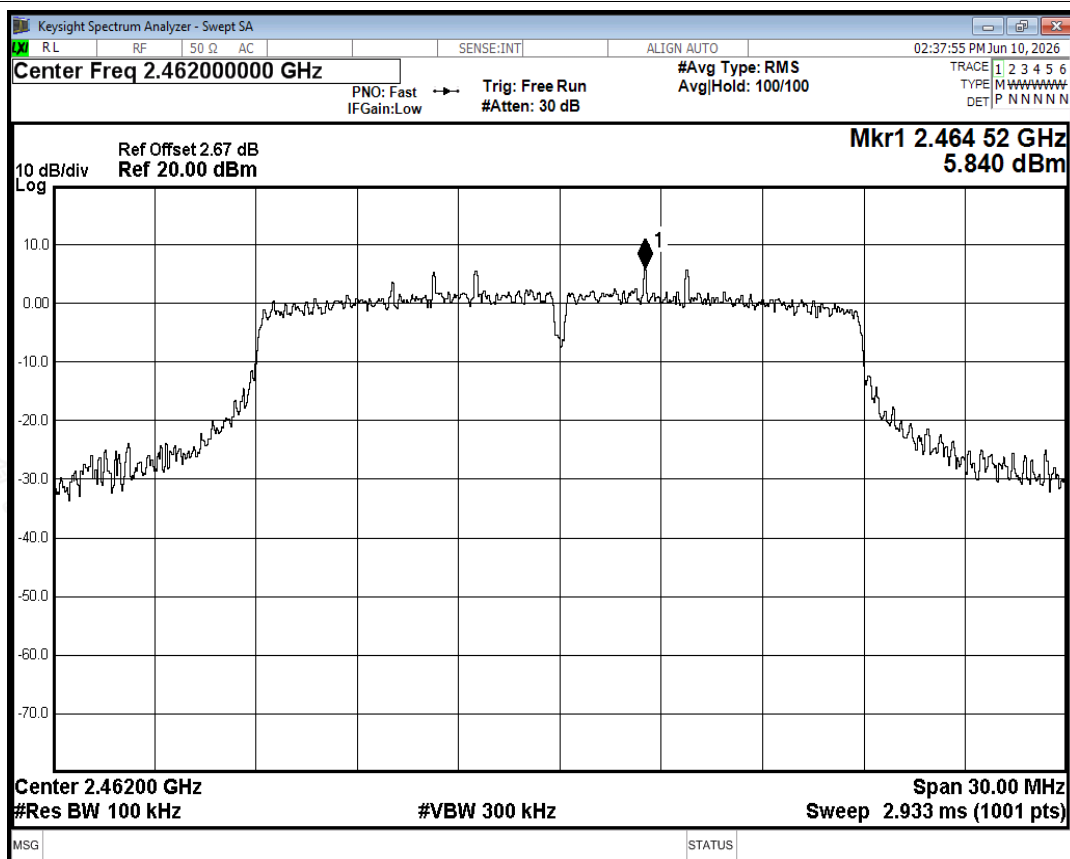


Shenzhen LCS Compliance Testing Laboratory Ltd.

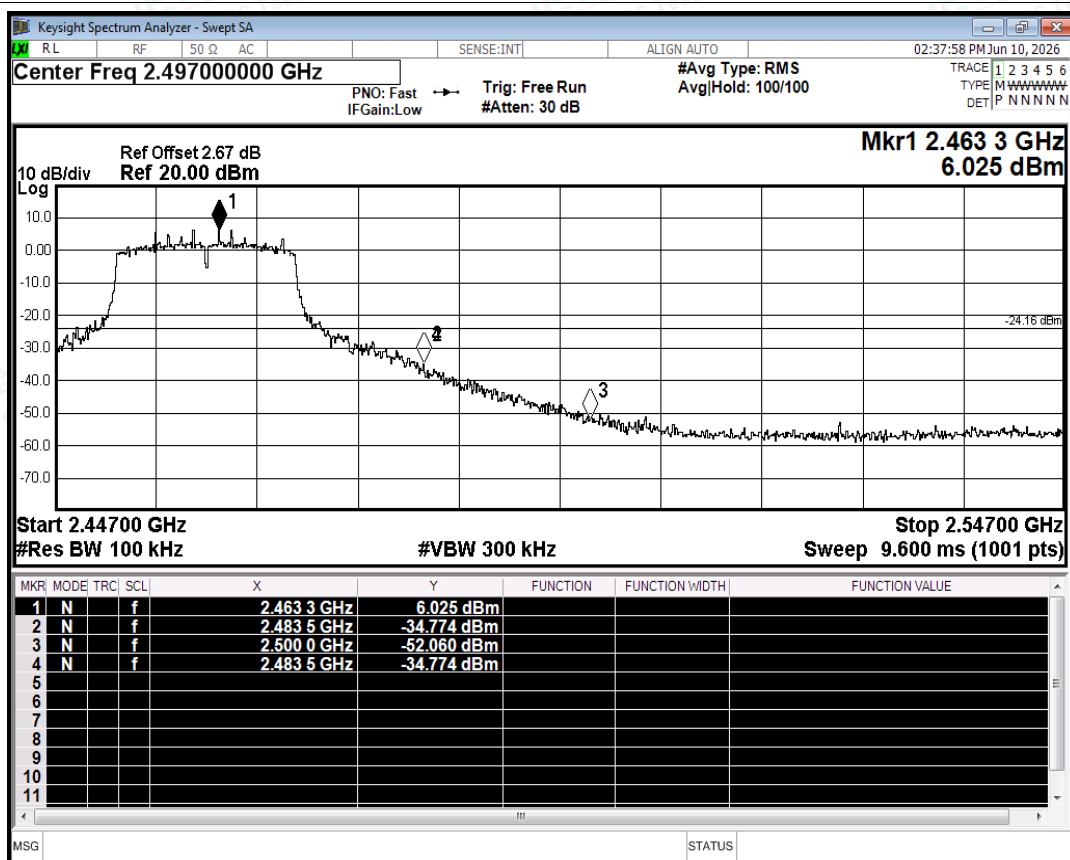
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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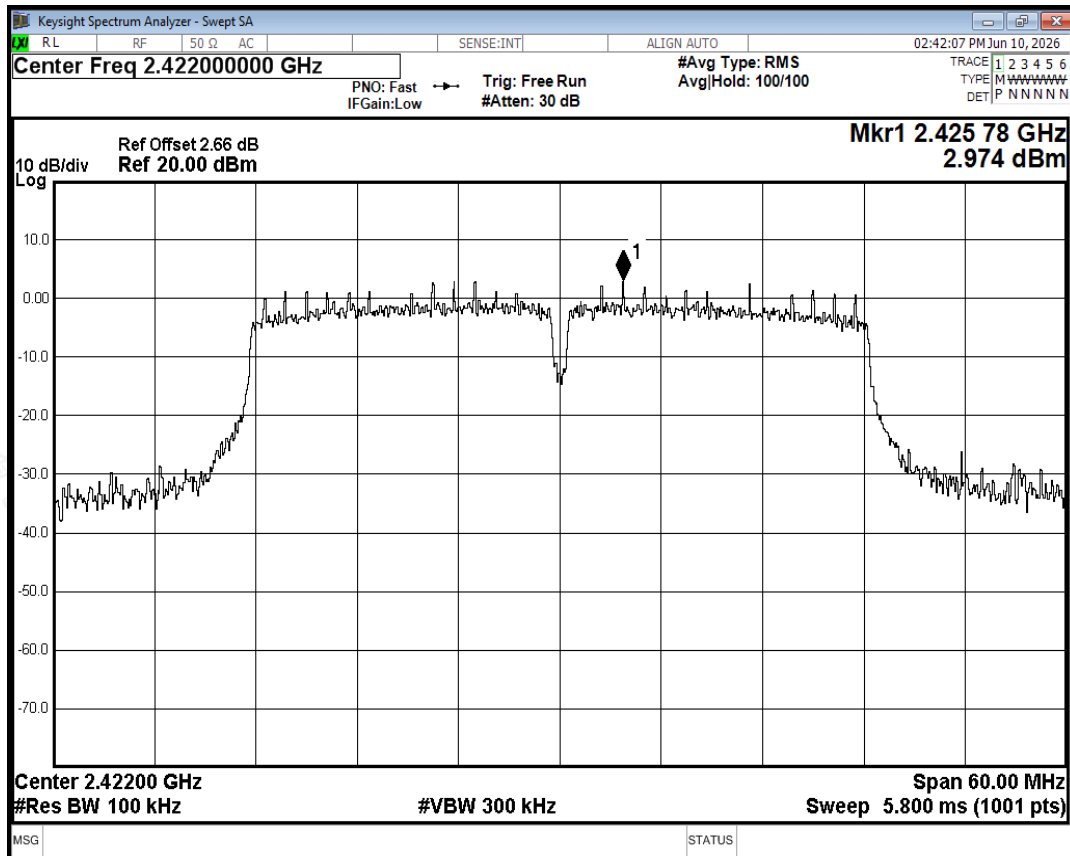


Shenzhen LCS Compliance Testing Laboratory Ltd.

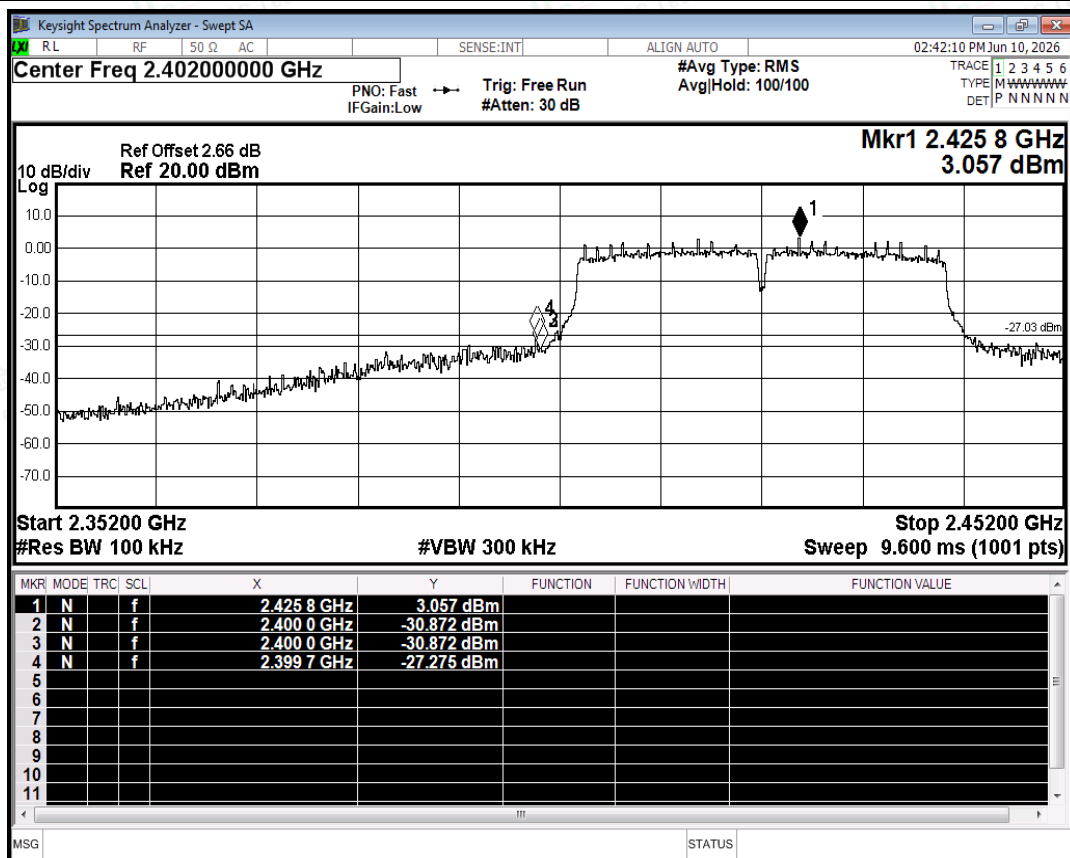
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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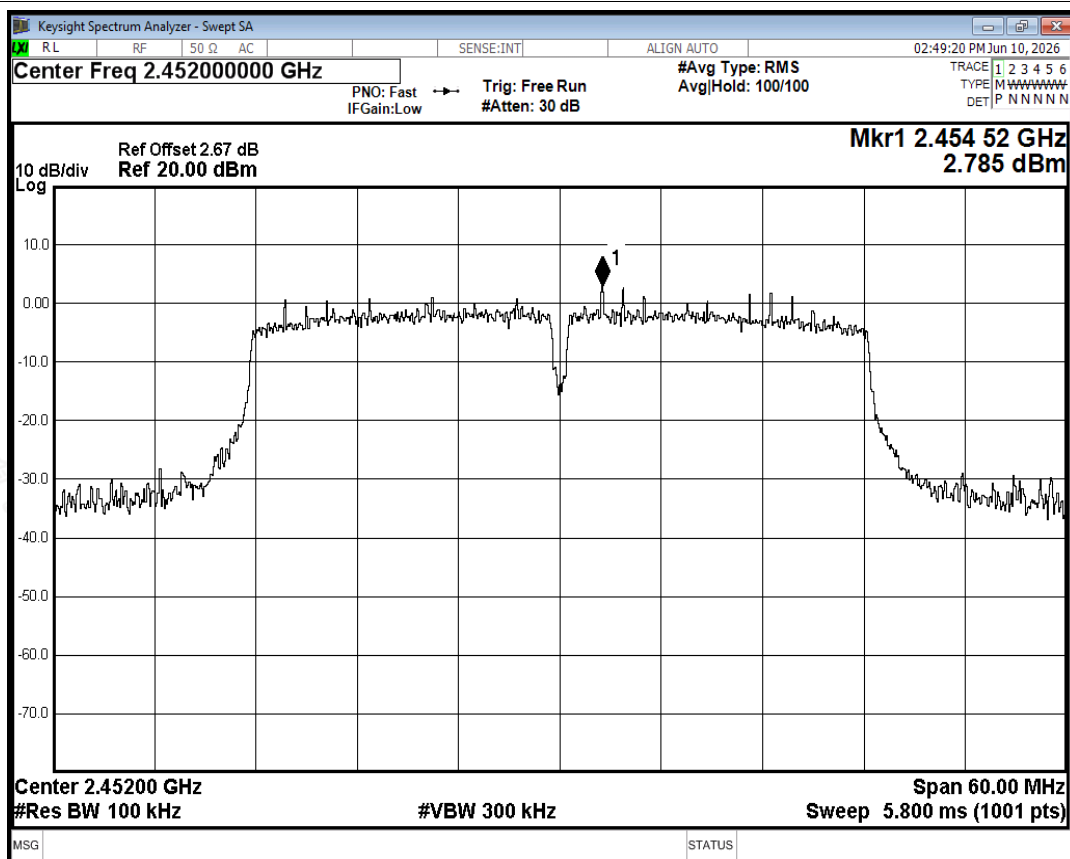


Shenzhen LCS Compliance Testing Laboratory Ltd.

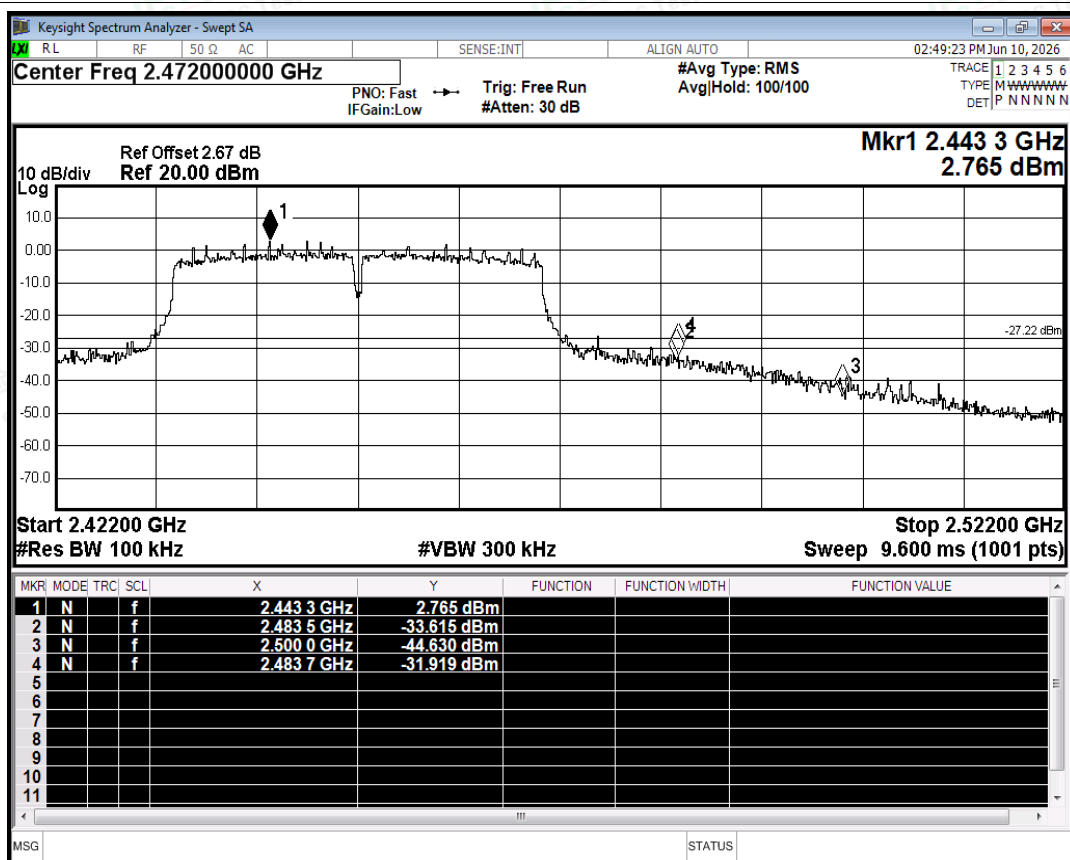
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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Band Edge NVNT n40 2452MHz Ant1 Ref



Band Edge NVNT n40 2452MHz Ant1 Emission



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C.5 Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant0	-46.13	-30	Pass
NVNT	b	2437	Ant0	-46.14	-30	Pass
NVNT	b	2462	Ant0	-44.14	-30	Pass
NVNT	g	2412	Ant0	-40.73	-30	Pass
NVNT	g	2437	Ant0	-44.74	-30	Pass
NVNT	g	2462	Ant0	-44.31	-30	Pass
NVNT	n20	2412	Ant0	-43.56	-30	Pass
NVNT	n20	2437	Ant0	-43.61	-30	Pass
NVNT	n20	2462	Ant0	-39.91	-30	Pass
NVNT	n40	2422	Ant0	-39.71	-30	Pass
NVNT	n40	2437	Ant0	-39.04	-30	Pass
NVNT	n40	2452	Ant0	-40.17	-30	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.

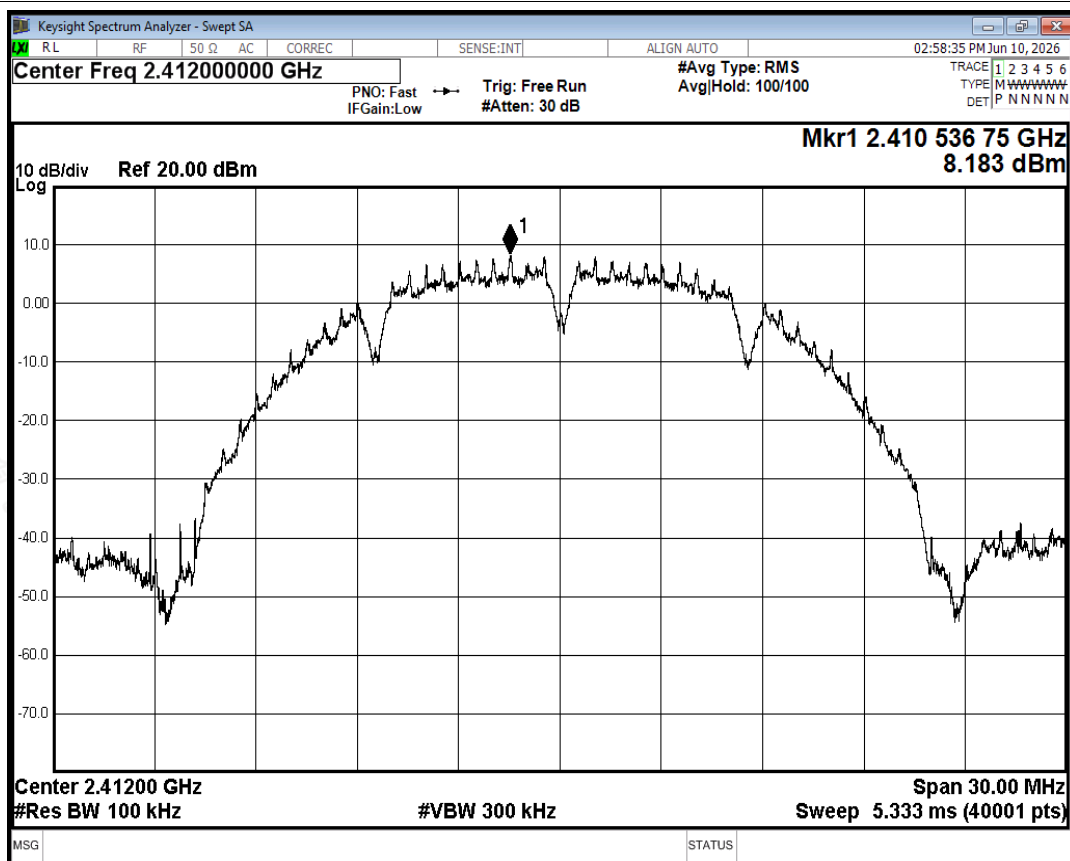


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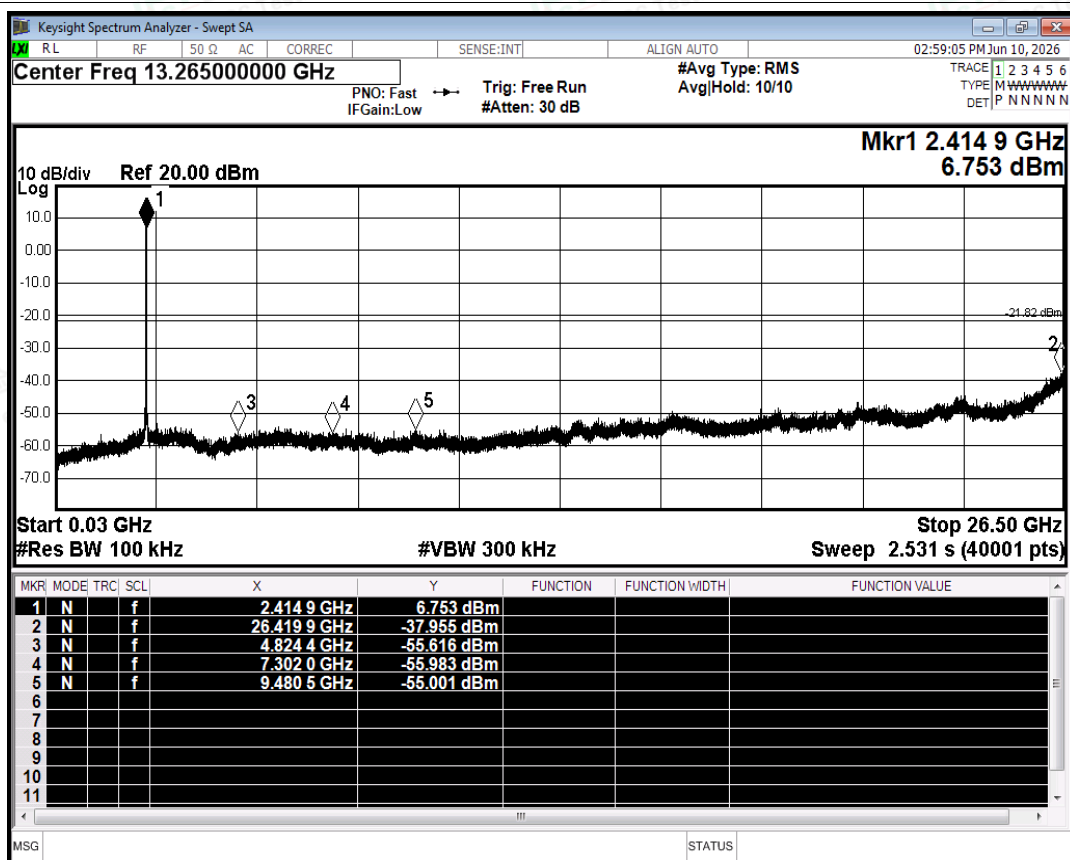
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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Tx. Spurious NVNT b 2412MHz Ant0 Ref



Tx. Spurious NVNT b 2412MHz Ant0 Emission

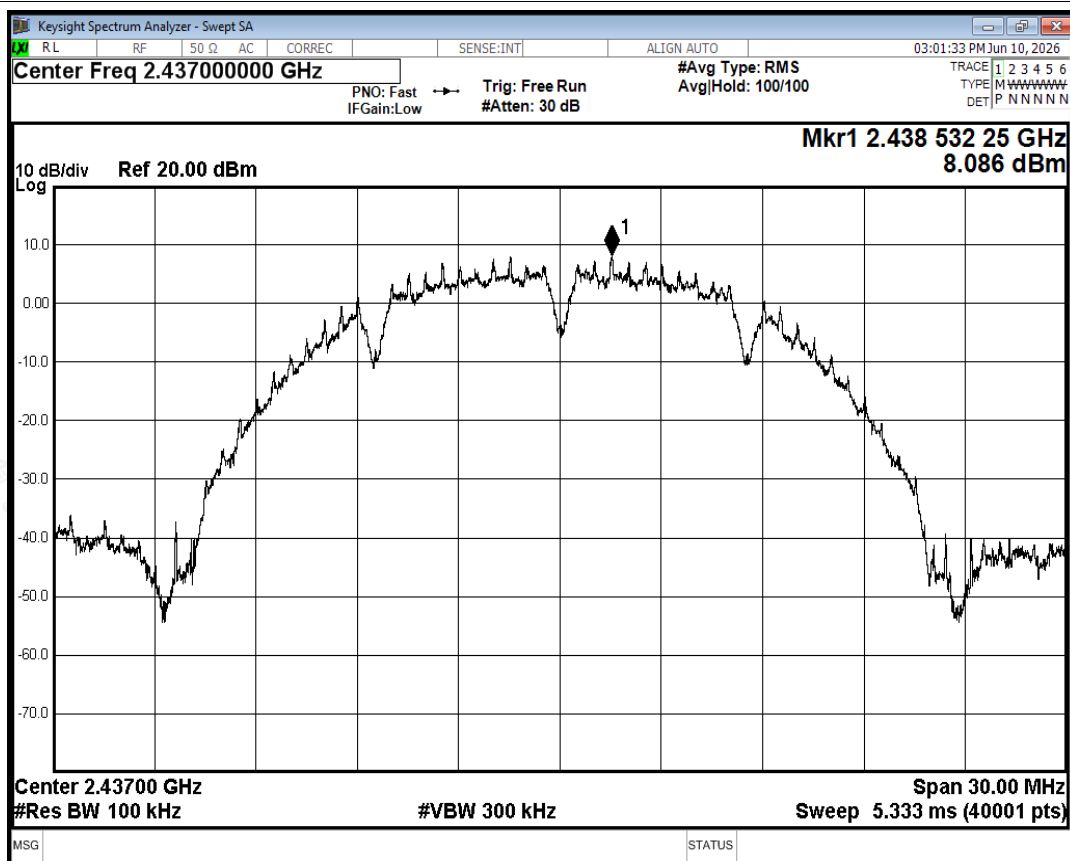


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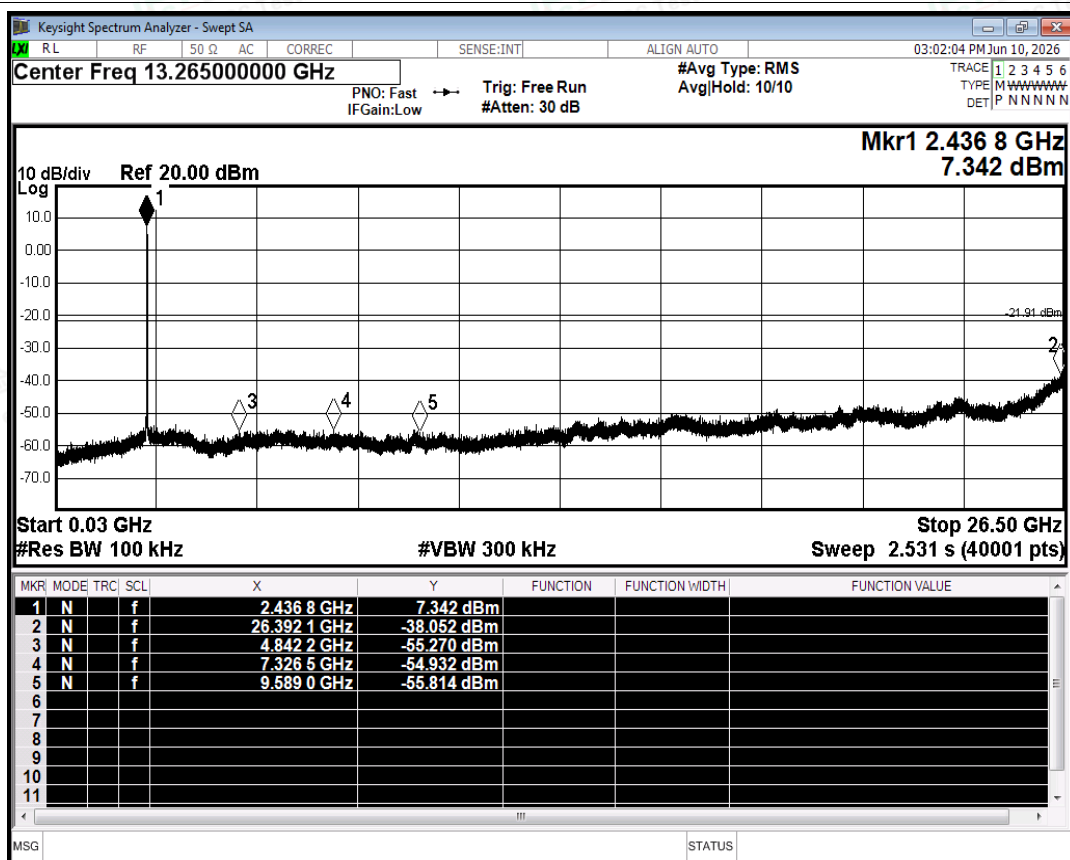
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Tx. Spurious NVNT b 2437MHz Ant0 Ref



Tx. Spurious NVNT b 2437MHz Ant0 Emission

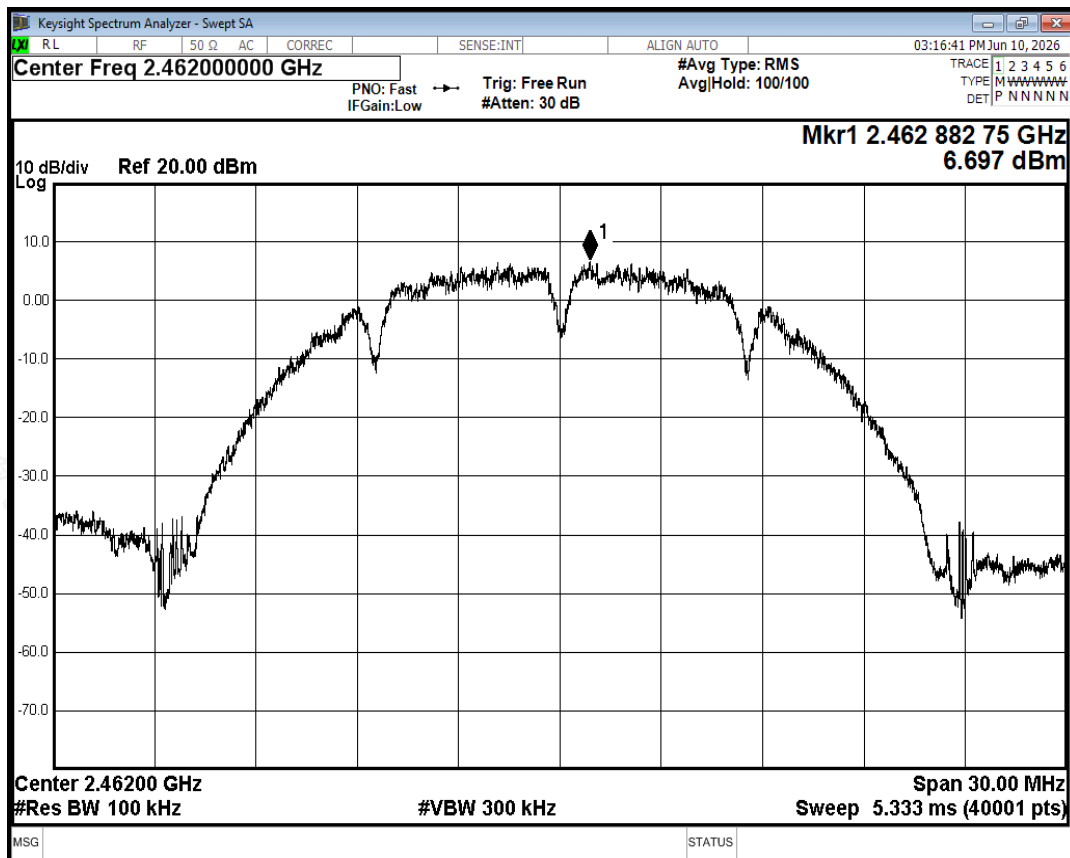


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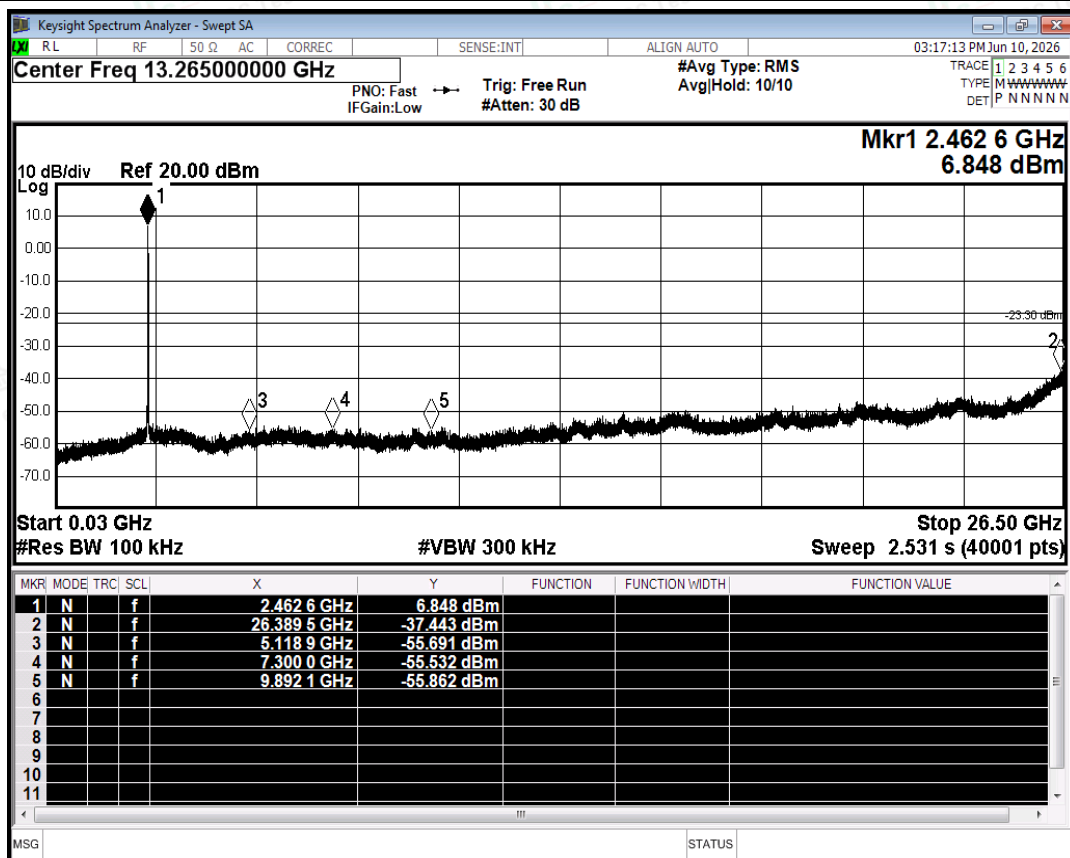
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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Tx. Spurious NVNT b 2462MHz Ant0 Ref



Tx. Spurious NVNT b 2462MHz Ant0 Emission

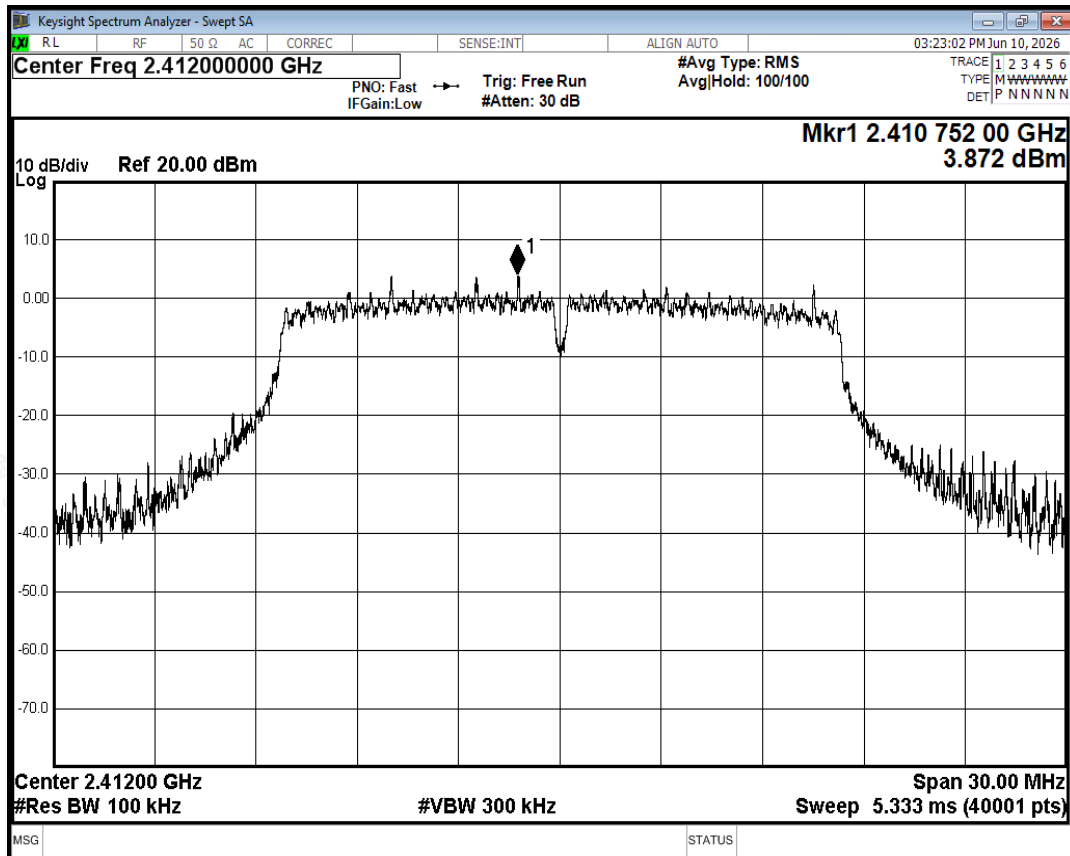


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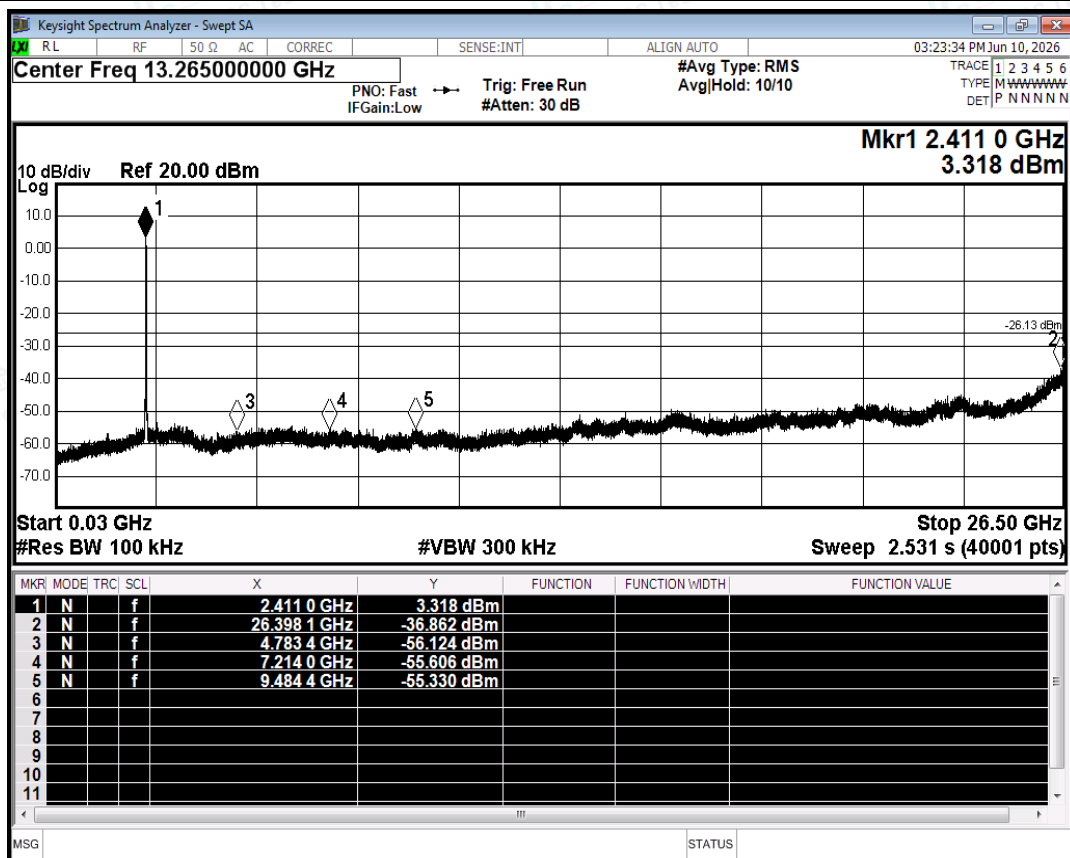
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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Tx. Spurious NVNT g 2412MHz Ant0 Ref



Tx. Spurious NVNT g 2412MHz Ant0 Emission

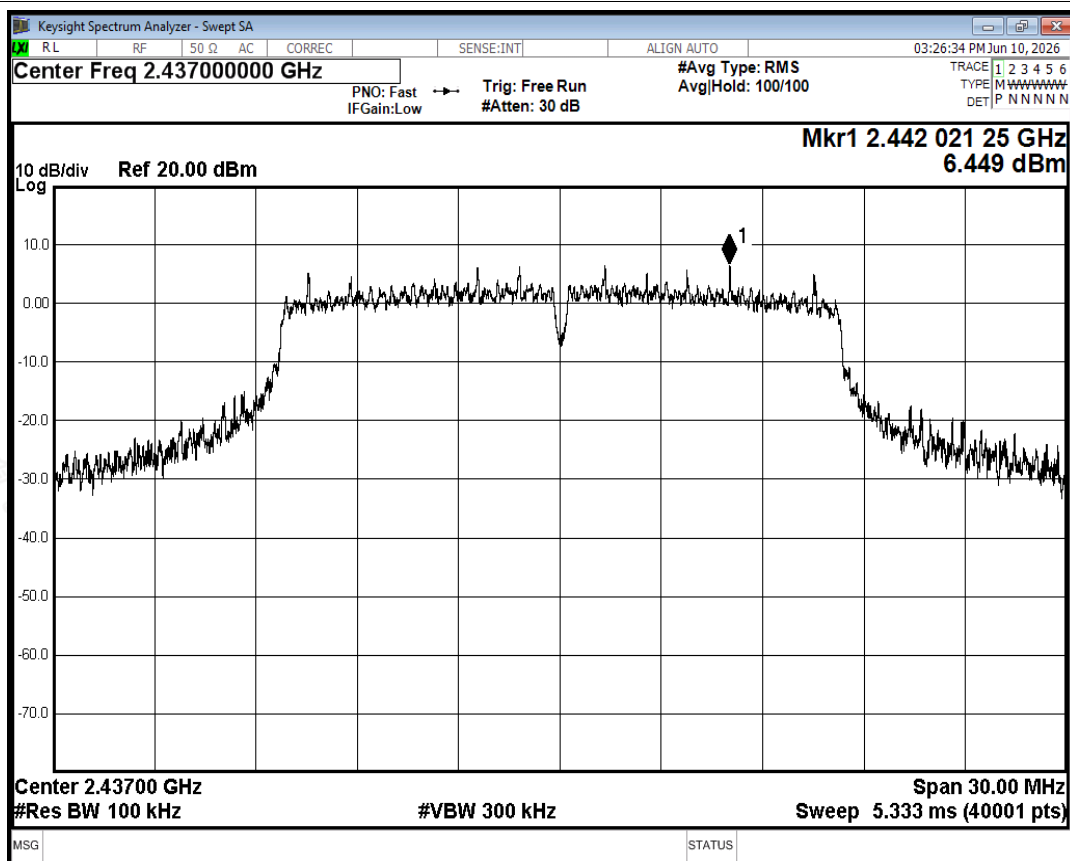


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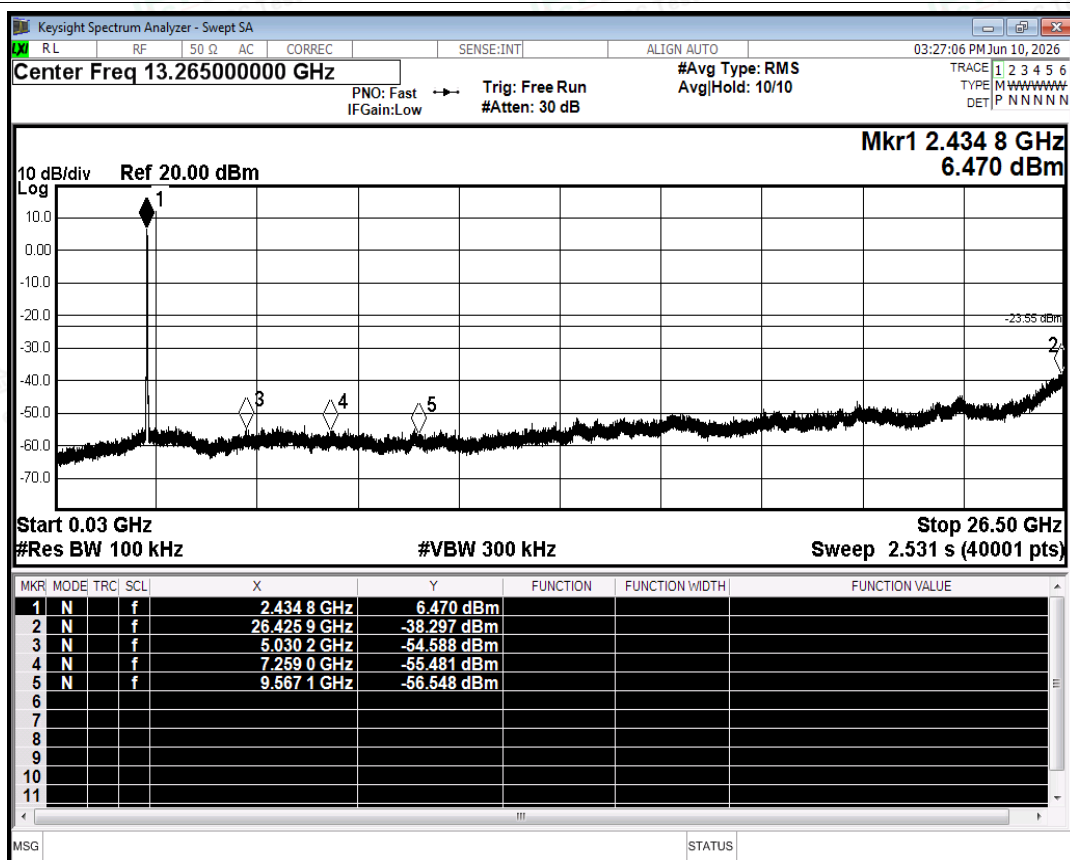
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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Tx. Spurious NVNT g 2437MHz Ant0 Ref



Tx. Spurious NVNT g 2437MHz Ant0 Emission

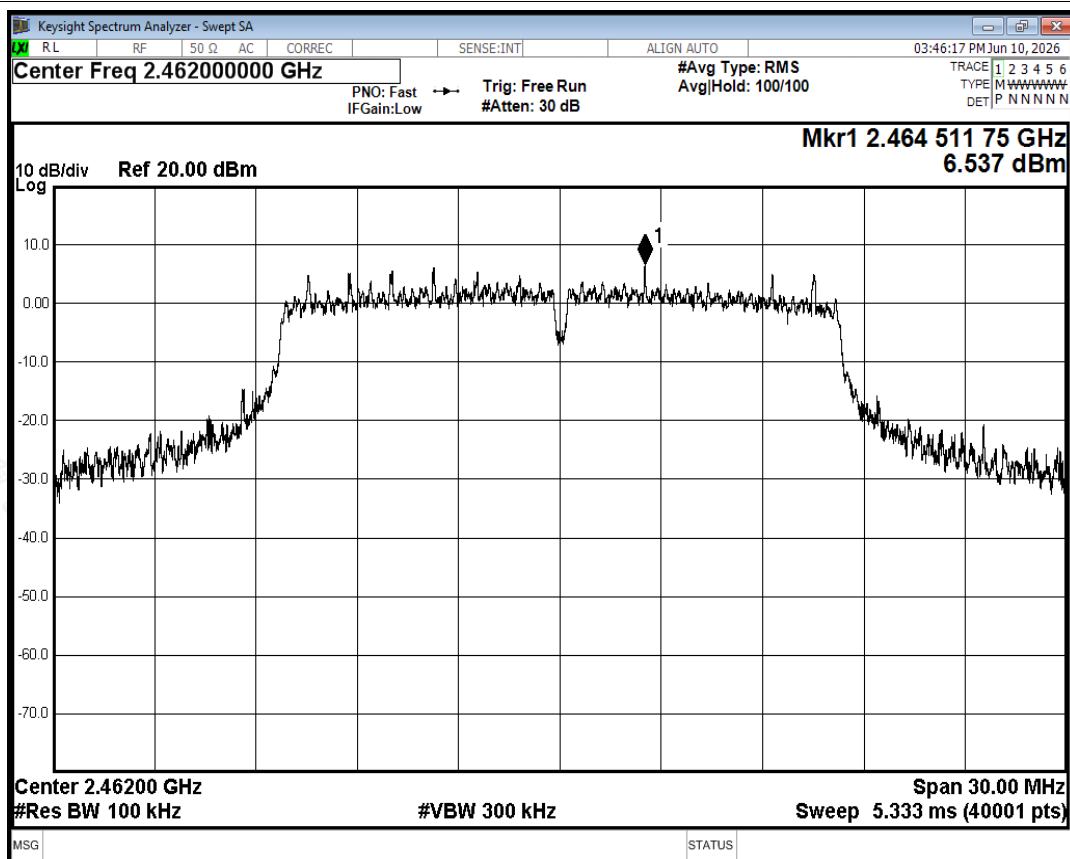


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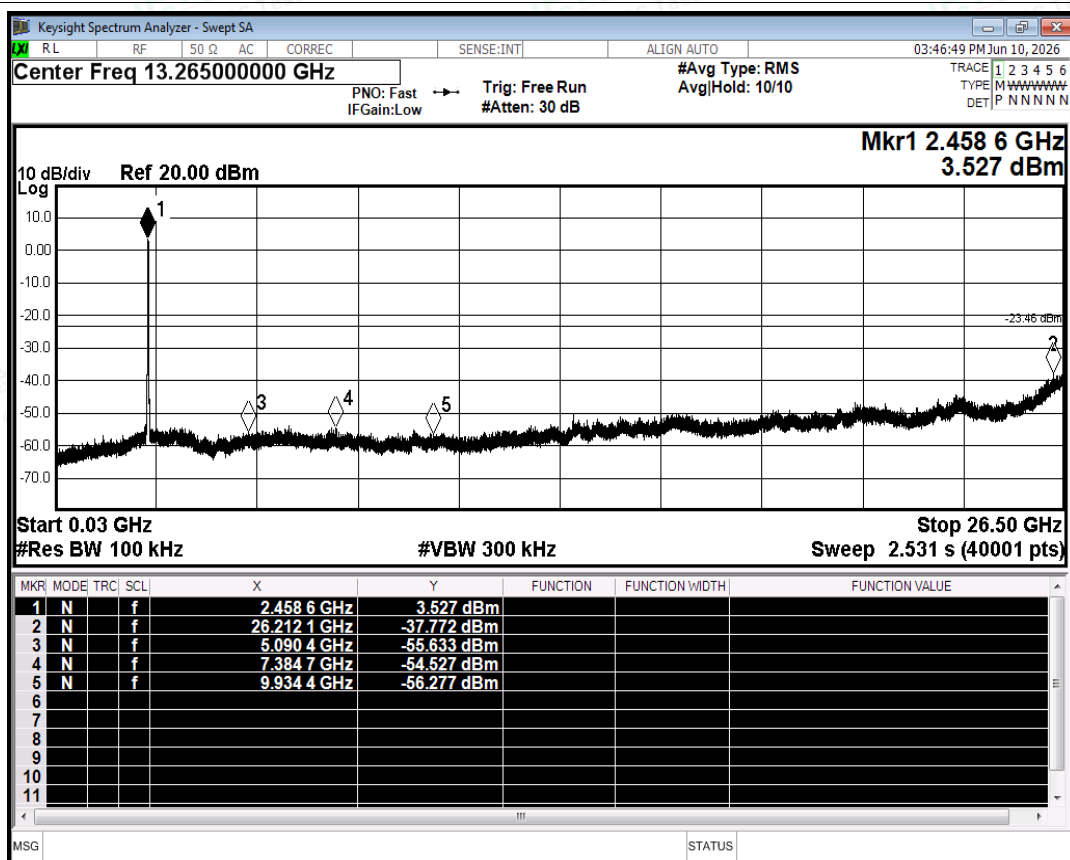
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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Tx. Spurious NVNT g 2462MHz Ant0 Ref



Tx. Spurious NVNT g 2462MHz Ant0 Emission

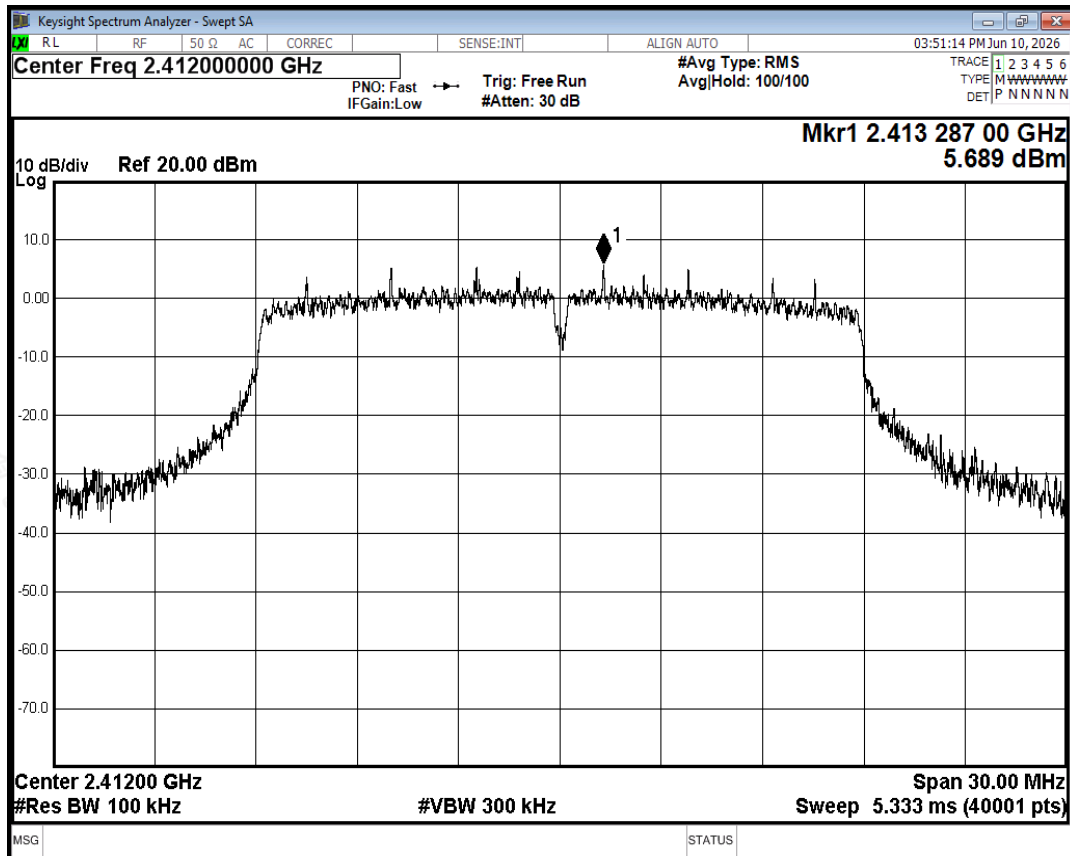


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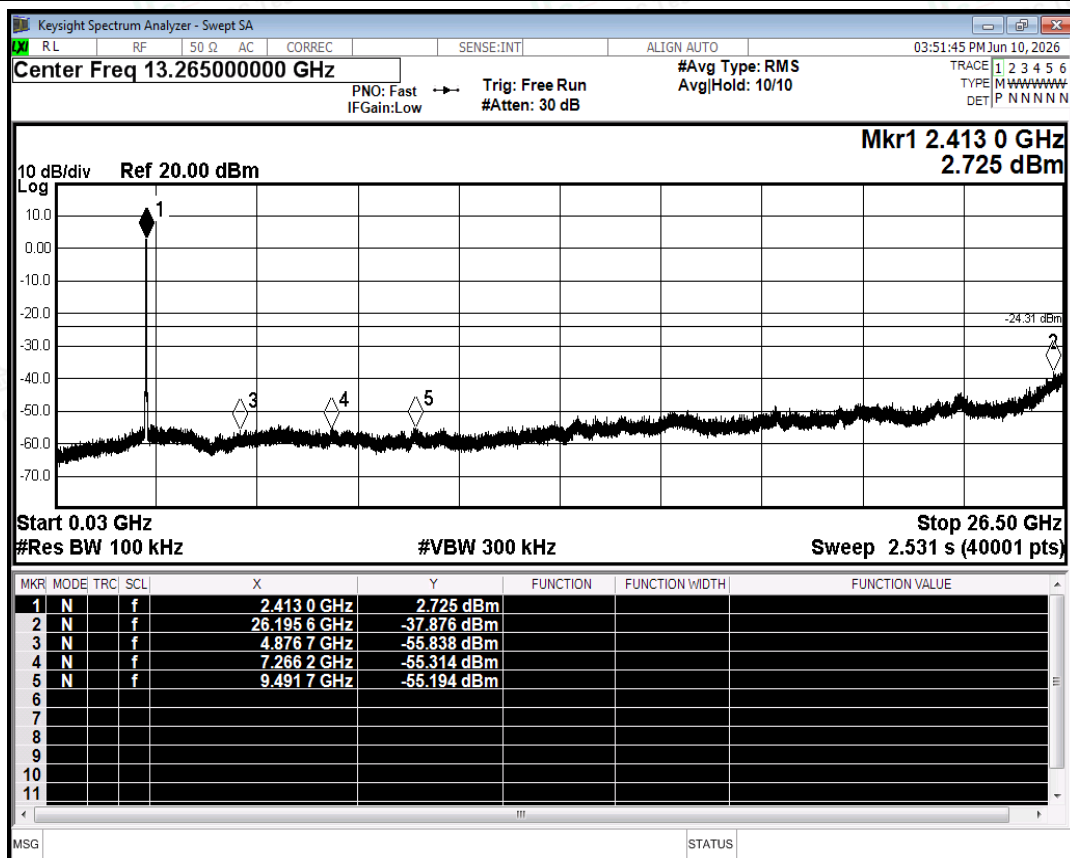
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Tx. Spurious NVNT n20 2412MHz Ant0 Emission



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