

Appendix C

RF Test Data for 900MHz (Conducted Measurement)

Product Name: BDE Multi-Band & Multi-Protocol Wireless Module

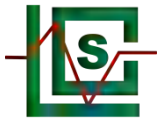
Test Model: BDE-MB1354R10UA32

Environmental Conditions

Temperature:	23.1° C
Relative Humidity:	52.3%
ATM Pressure:	100.0 kPa
Test Engineer:	Jose Zhu
Supervised by:	Nick Peng



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C.1 -20dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (kHz)	Limit -20 dB Bandwidth (kHz)	Verdict
NVNT	50Kbps	902.2	Ant1	87.23	≤250	Pass
NVNT	50Kbps	915.0	Ant1	89.99	≤250	Pass
NVNT	50Kbps	927.8	Ant1	90.39	≤250	Pass
NVNT	100Kbps	902.2	Ant1	123.2	≤250	Pass
NVNT	100Kbps	915.0	Ant1	119.4	≤250	Pass
NVNT	100Kbps	927.8	Ant1	118.5	≤250	Pass
NVNT	150Kbps	902.4	Ant1	183.5	≤250	Pass
NVNT	150Kbps	915.2	Ant1	175.2	≤250	Pass
NVNT	150Kbps	927.6	Ant1	180.2	≤250	Pass
NVNT	200Kbps	902.4	Ant1	242.1	≤250	Pass
NVNT	200Kbps	915.2	Ant1	246.6	≤250	Pass
NVNT	200Kbps	927.6	Ant1	239.3	≤250	Pass

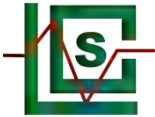


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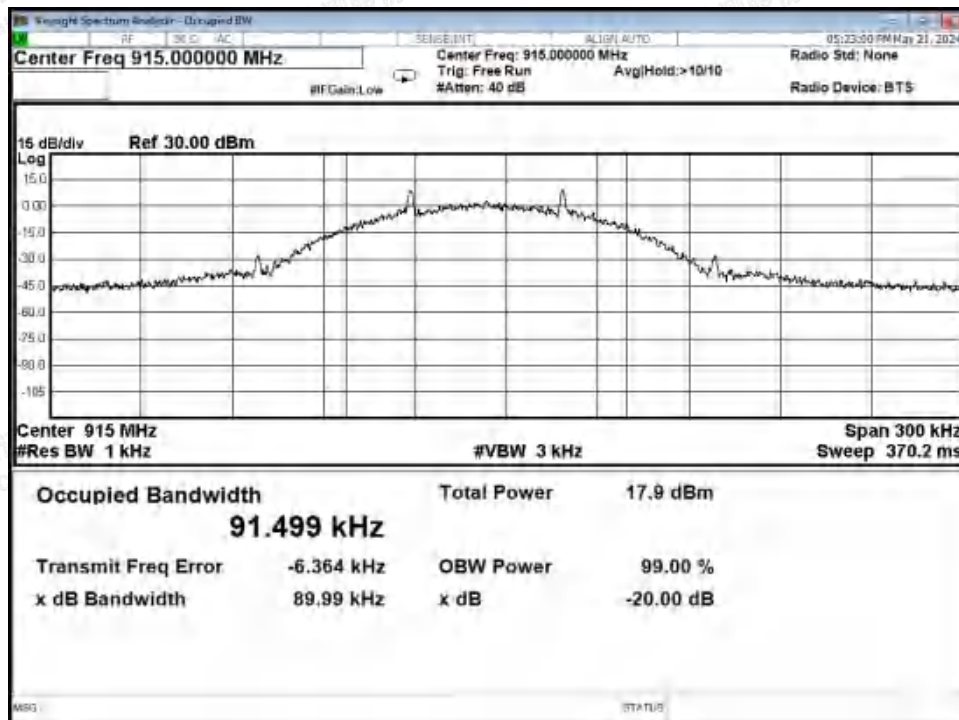


Test Graphs

-20dB Bandwidth NVNT 50Kbps 902.2MHz Ant1



-20dB Bandwidth NVNT 50Kbps 915.0MHz Ant1

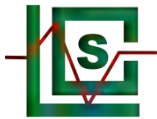


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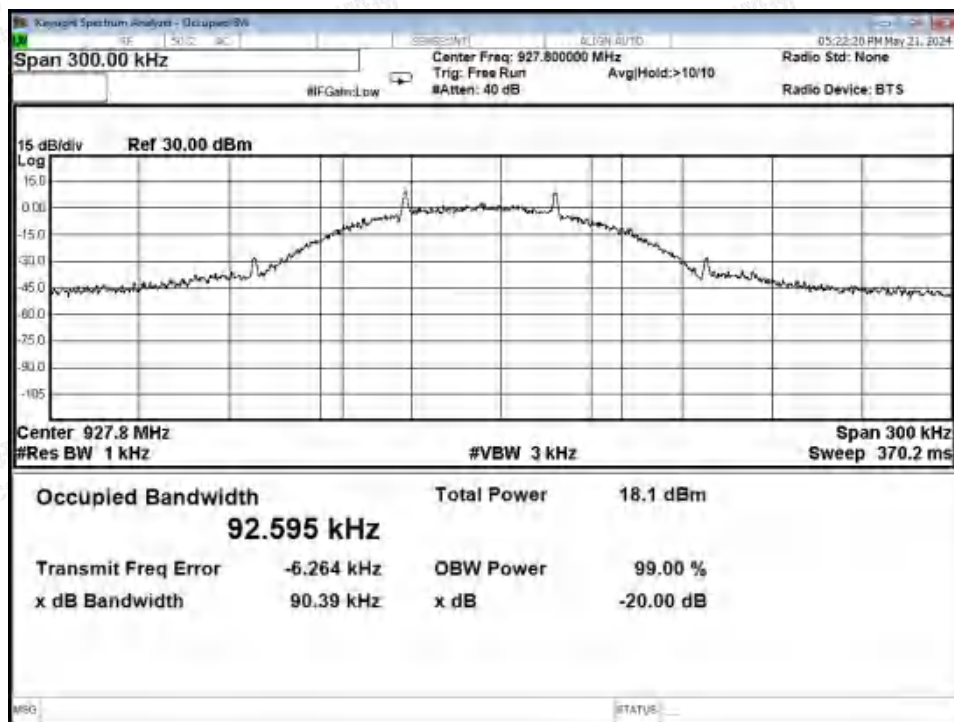
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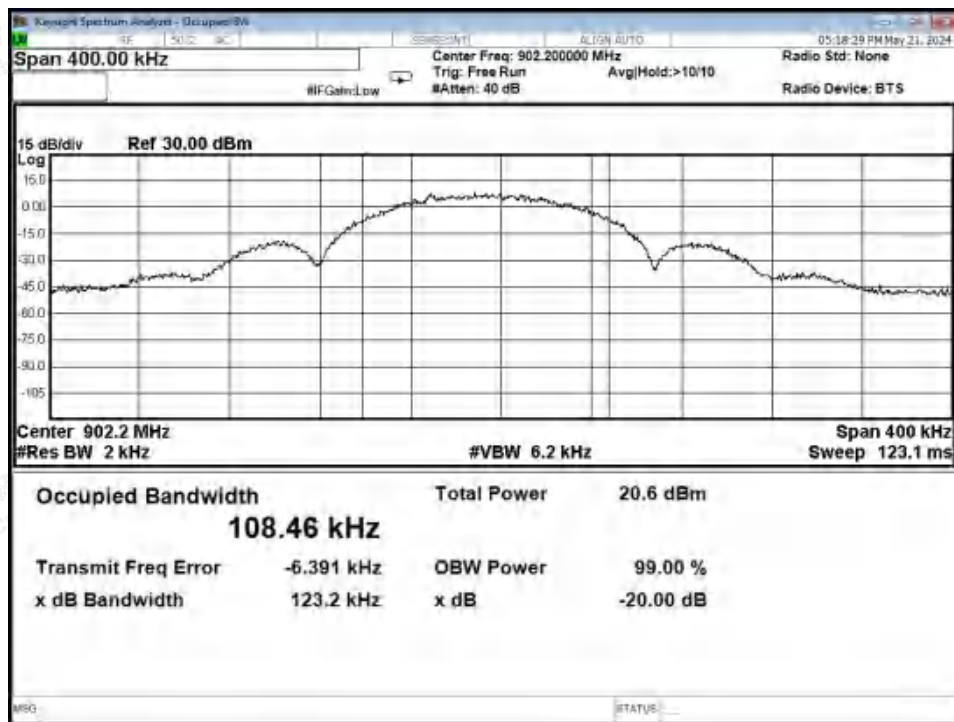
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-20dB Bandwidth NVNT 50Kbps 927.8MHz Ant1



-20dB Bandwidth NVNT 100Kbps 902.2MHz Ant1

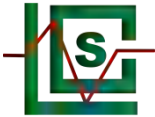


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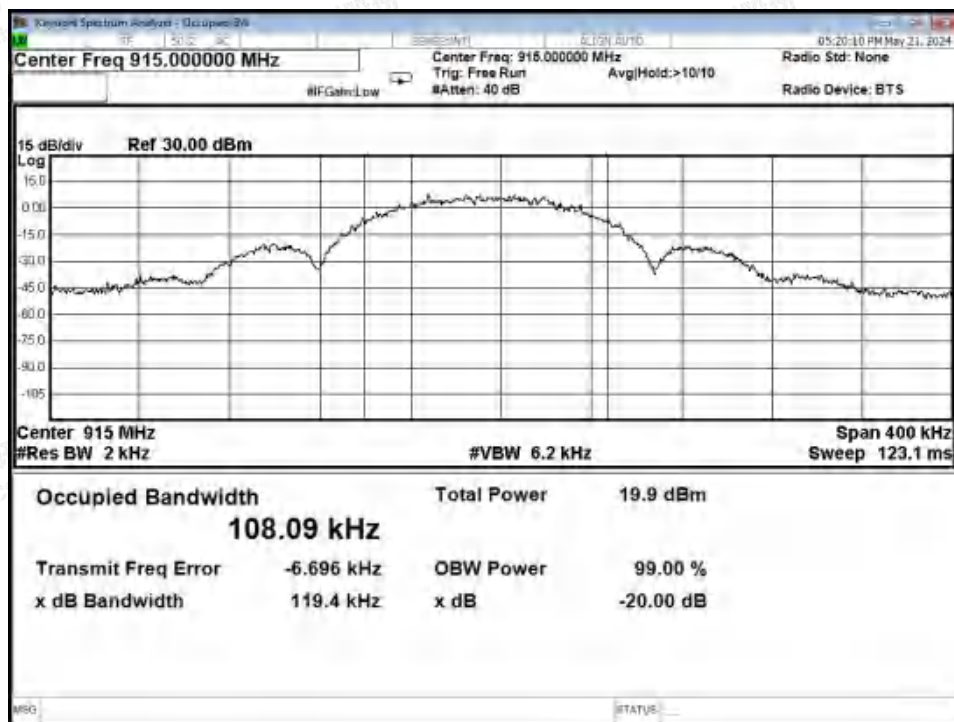
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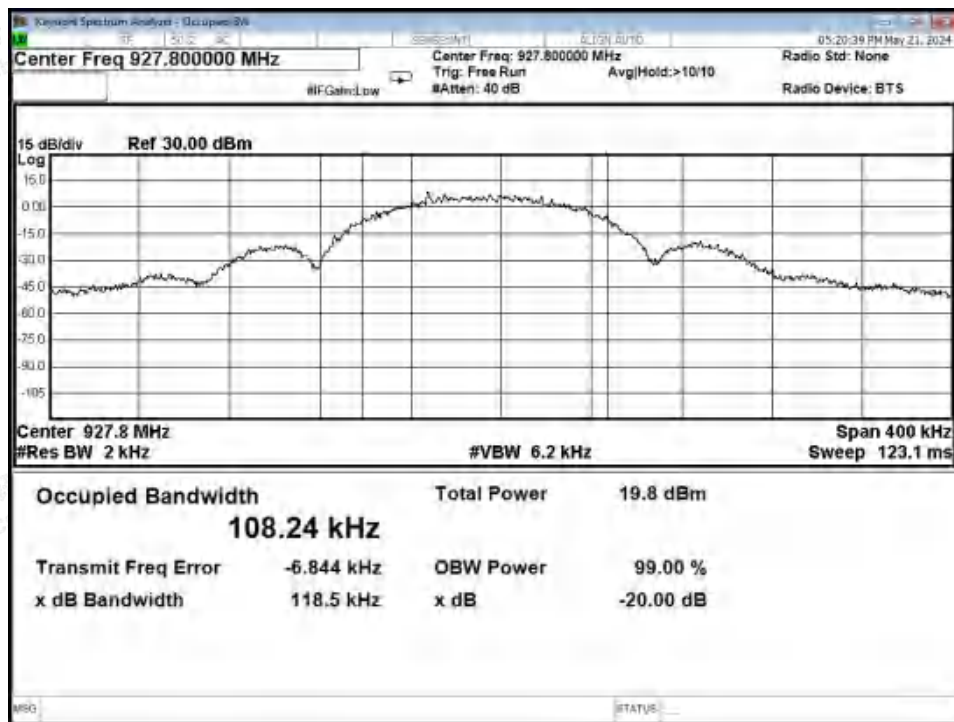
Scan code to check authenticity



-20dB Bandwidth NVNT 100Kbps 915.0MHz Ant1



-20dB Bandwidth NVNT 100Kbps 927.8MHz Ant1

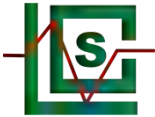


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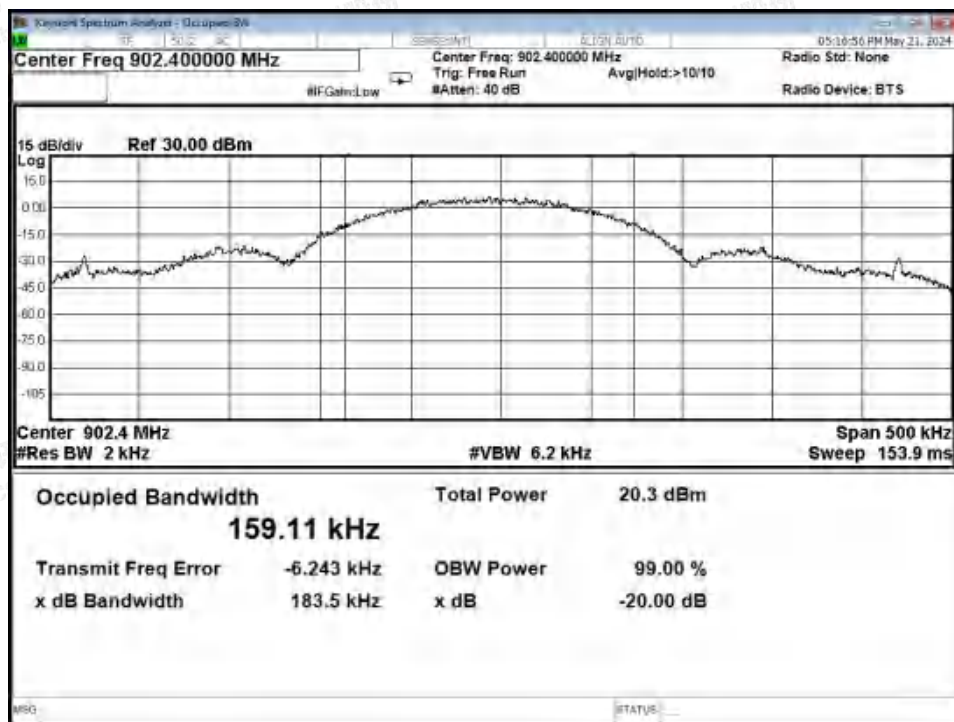
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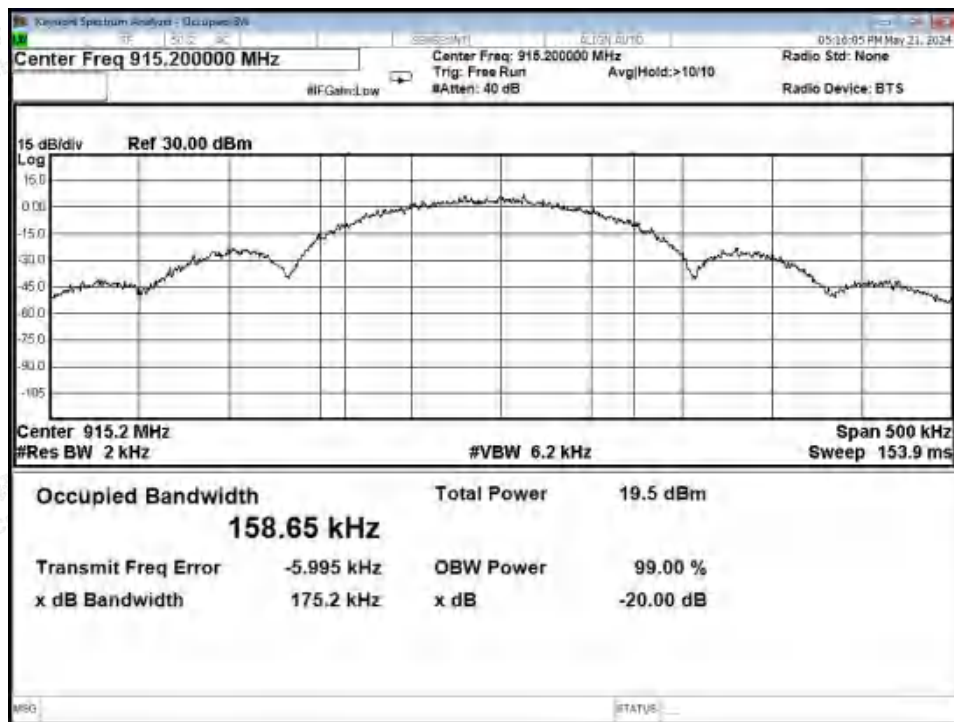
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-20dB Bandwidth NVNT 150Kbps 902.4MHz Ant1



-20dB Bandwidth NVNT 150Kbps 915.2MHz Ant1

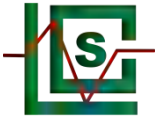


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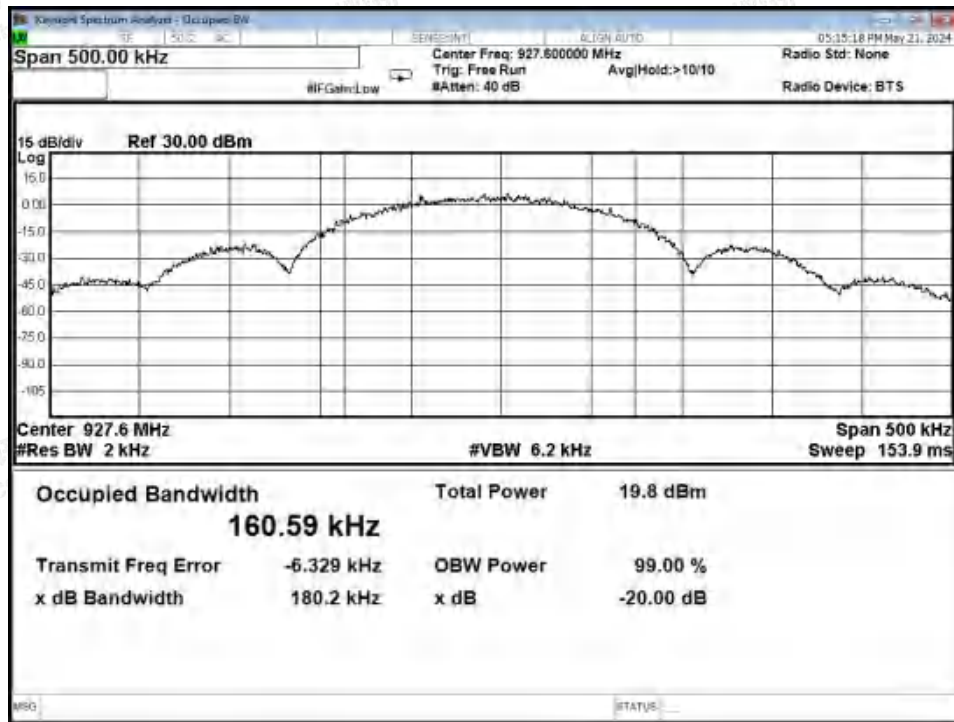
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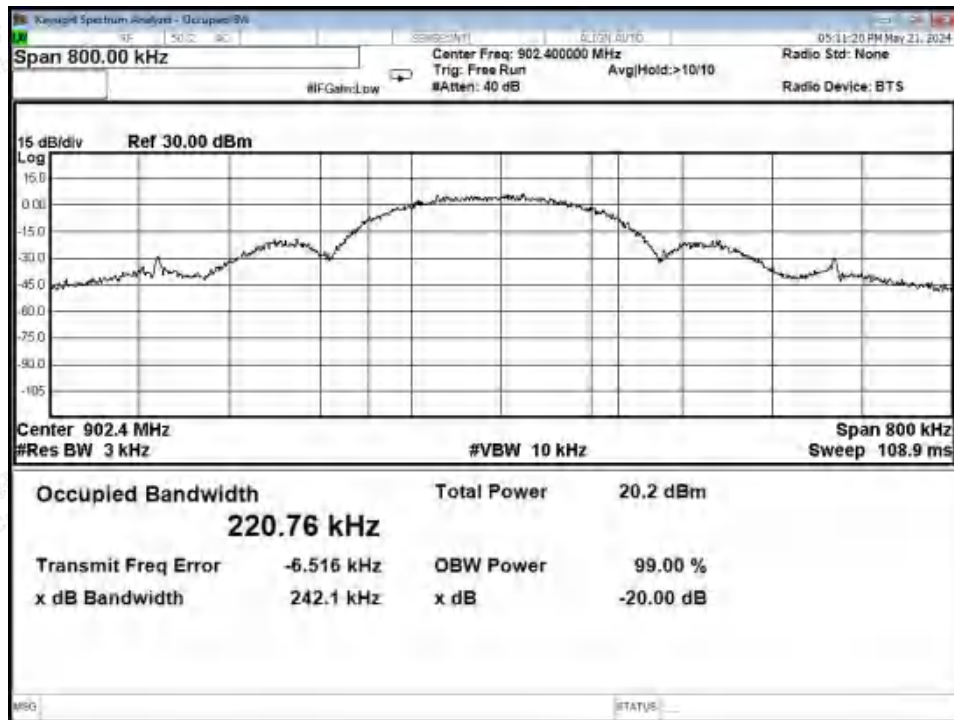
Scan code to check authenticity



-20dB Bandwidth NVNT 150Kbps 927.6Hz Ant1



-20dB Bandwidth NVNT 200Kbps 902.4MHz Ant1

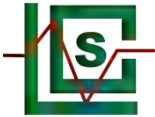


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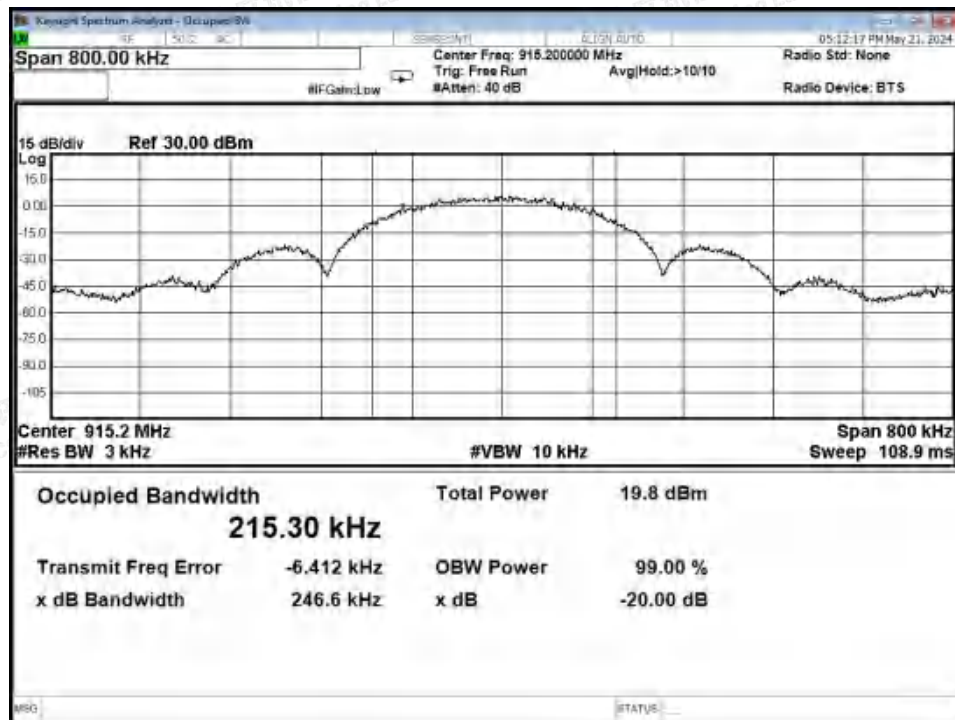
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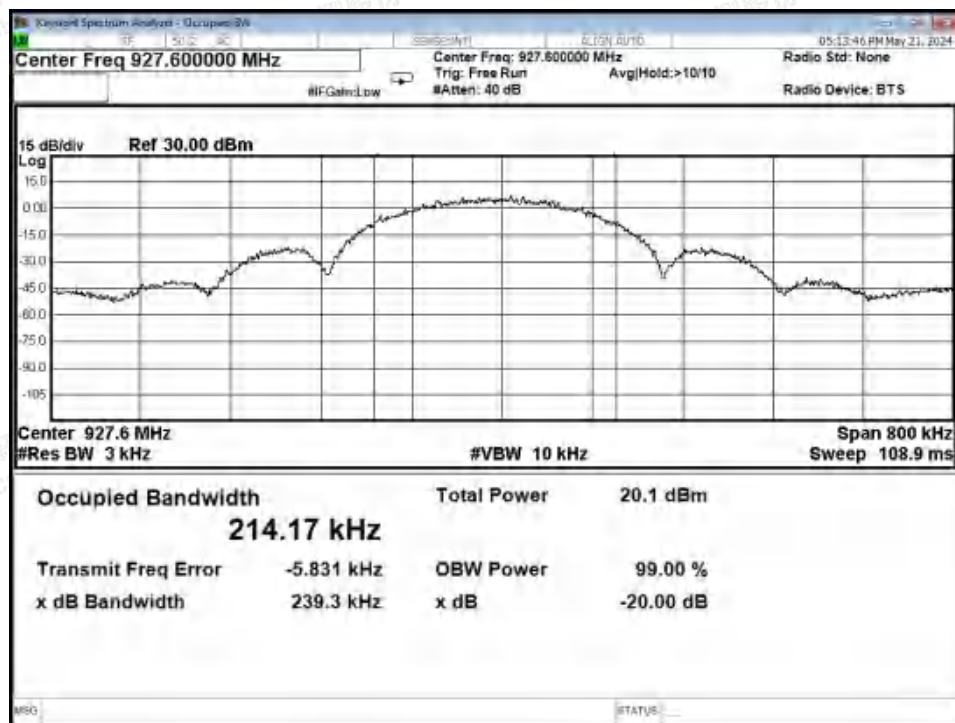
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-20dB Bandwidth NVNT 200Kbps 915.2MHz Ant1



-20dB Bandwidth NVNT 200Kbps 927.6Hz Ant1



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C.2 Maximum Peak Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	50Kbps	902.2	Ant1	13.505	30	Pass
NVNT	50Kbps	915.0	Ant1	13.401	30	Pass
NVNT	50Kbps	927.8	Ant1	13.255	30	Pass
NVNT	100Kbps	902.2	Ant1	13.544	30	Pass
NVNT	100Kbps	915.0	Ant1	13.432	30	Pass
NVNT	100Kbps	927.8	Ant1	13.271	30	Pass
NVNT	150Kbps	902.4	Ant1	13.548	30	Pass
NVNT	150Kbps	915.2	Ant1	13.463	30	Pass
NVNT	150Kbps	927.6	Ant1	13.323	30	Pass
NVNT	200Kbps	902.4	Ant1	13.600	30	Pass
NVNT	200Kbps	915.2	Ant1	13.488	30	Pass
NVNT	200Kbps	927.6	Ant1	13.334	30	Pass

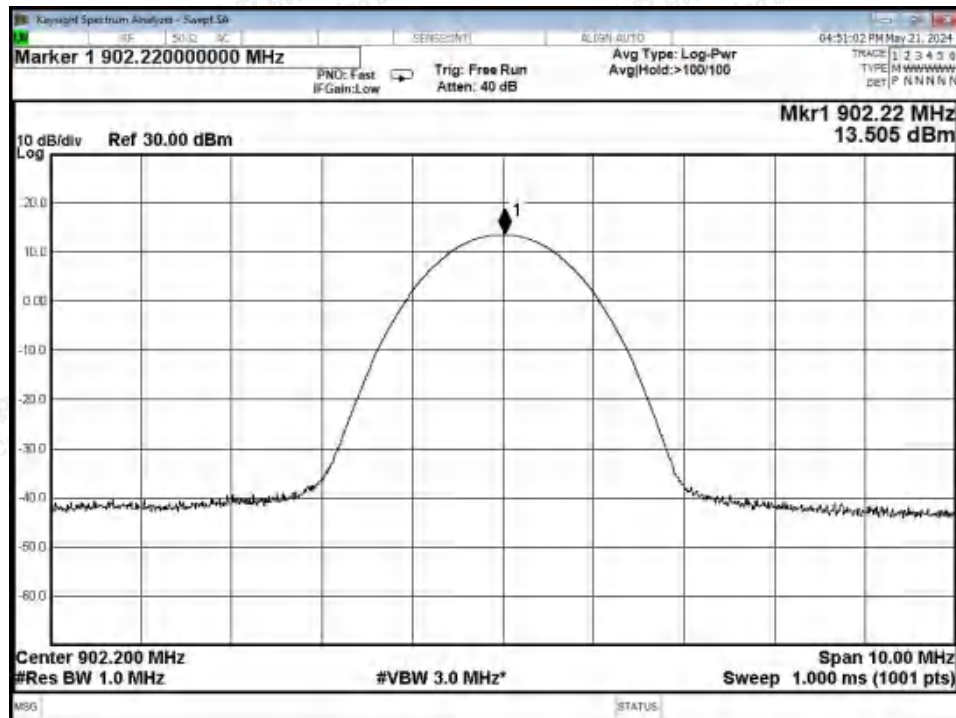


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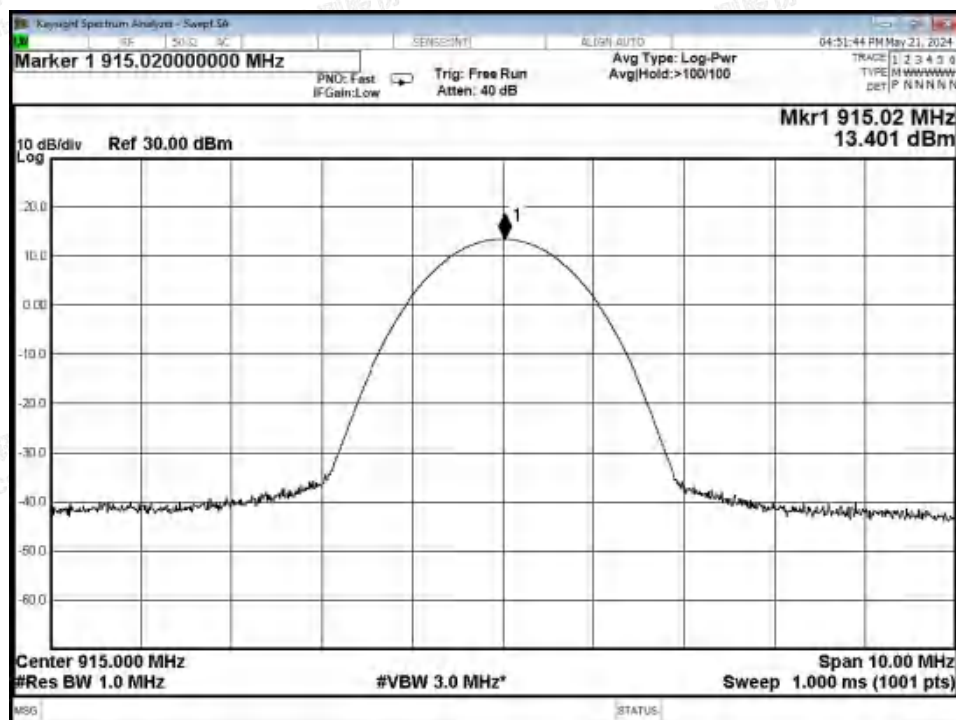


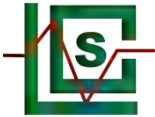
Test Graphs

Power NVNT 50Kbps 902.2MHz Ant1

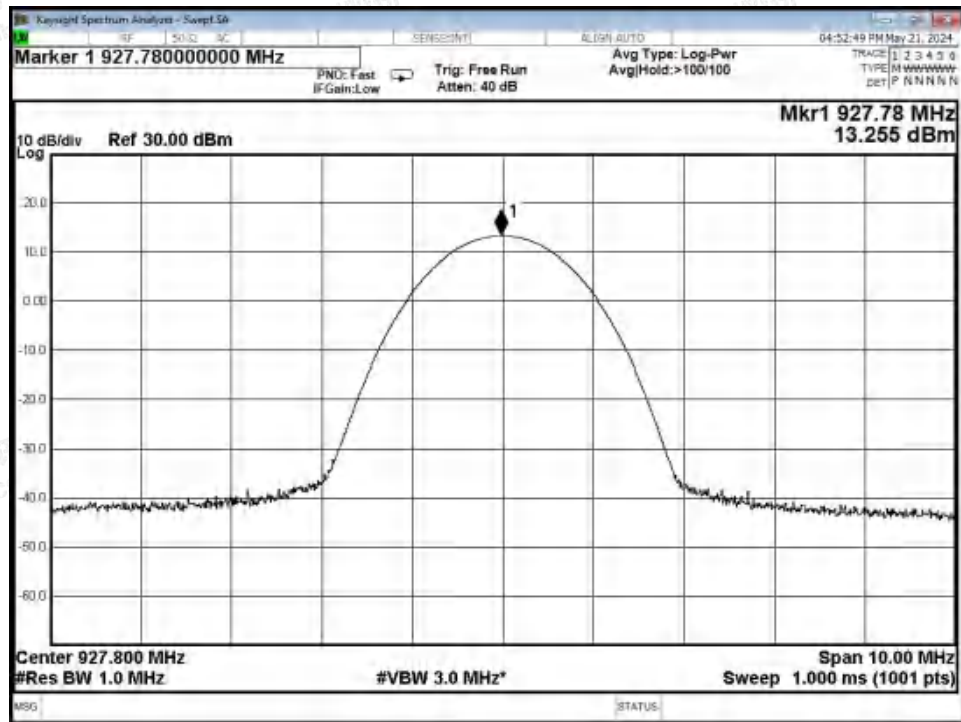


Power NVNT 50Kbps 915.0MHz Ant1

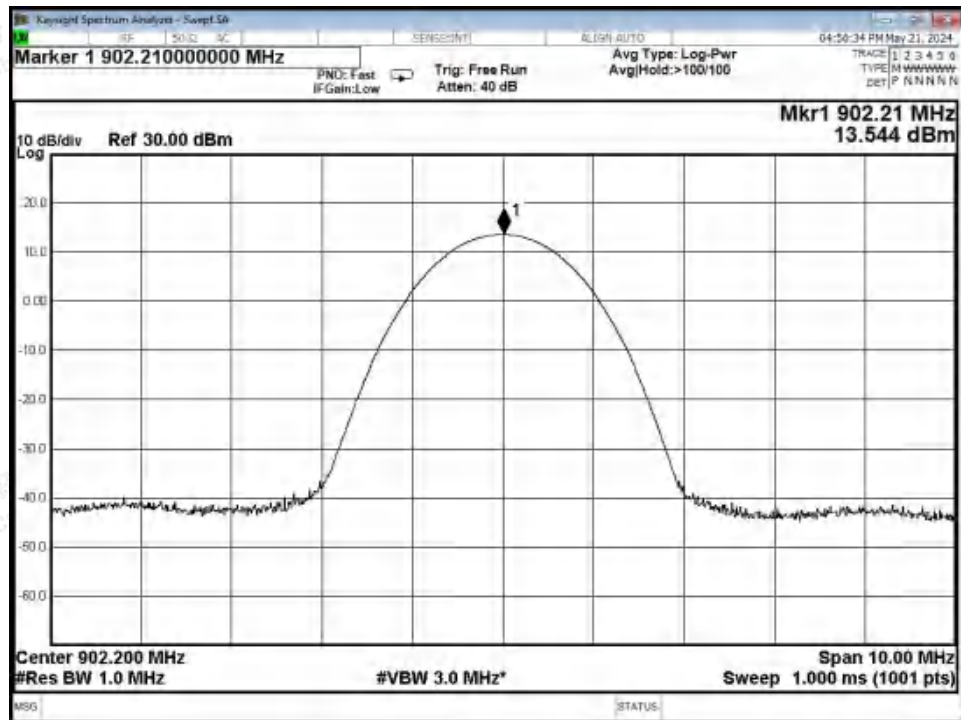




Power NVNT 50Kbps 927.8MHz Ant1



Power NVNT 100Kbps 902.2MHz Ant1

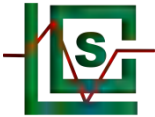


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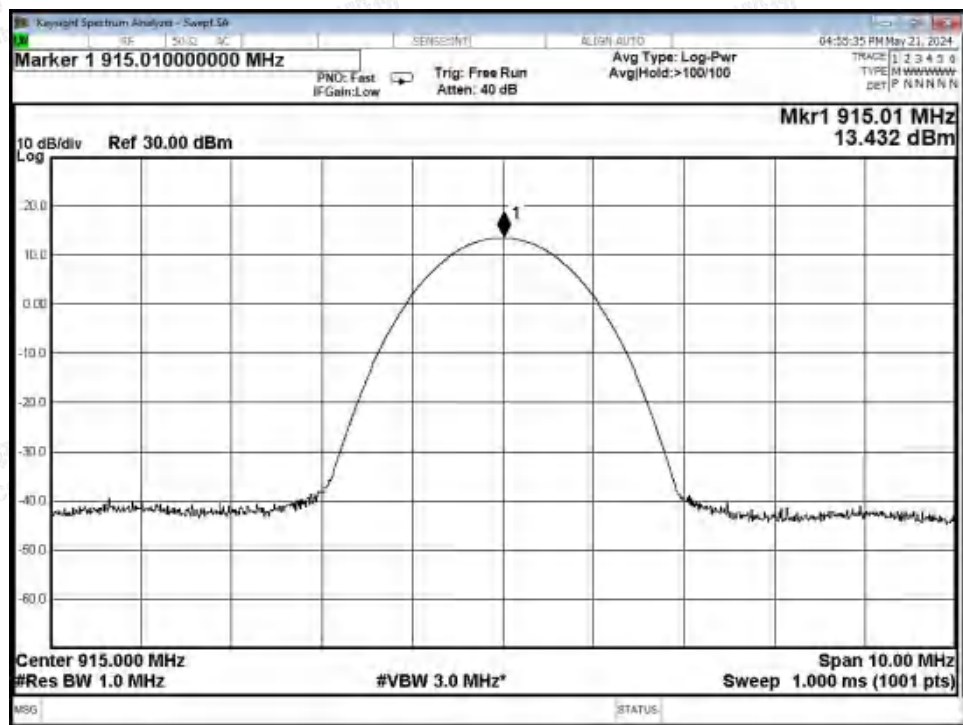
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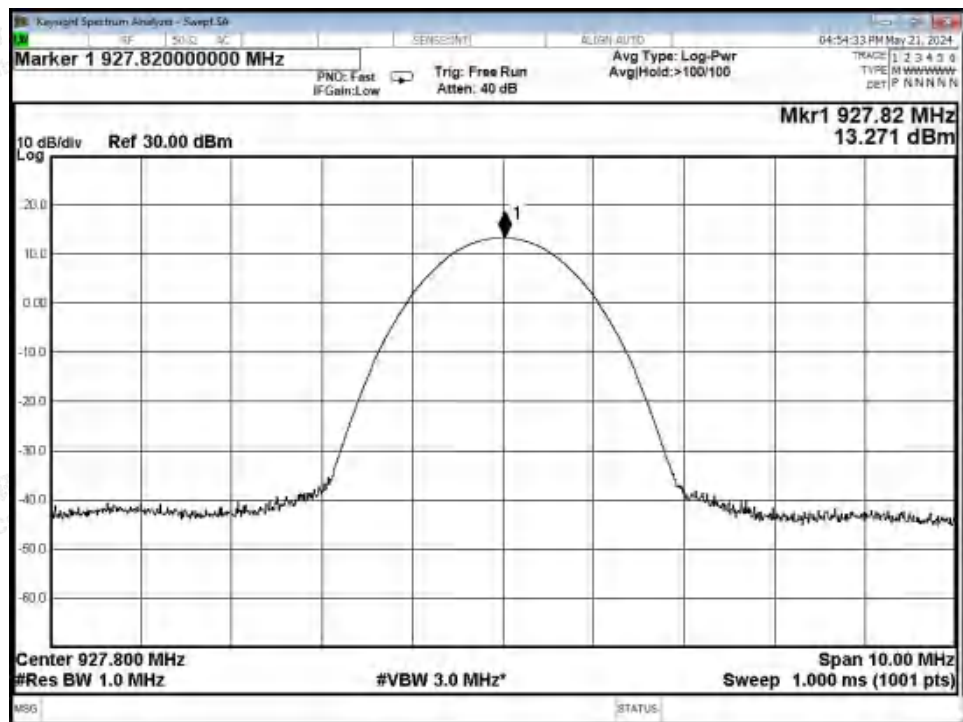
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Power NVNT 100Kbps 915.0MHz Ant1



Power NVNT 100Kbps 927.8MHz Ant1

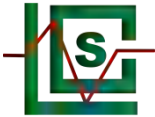


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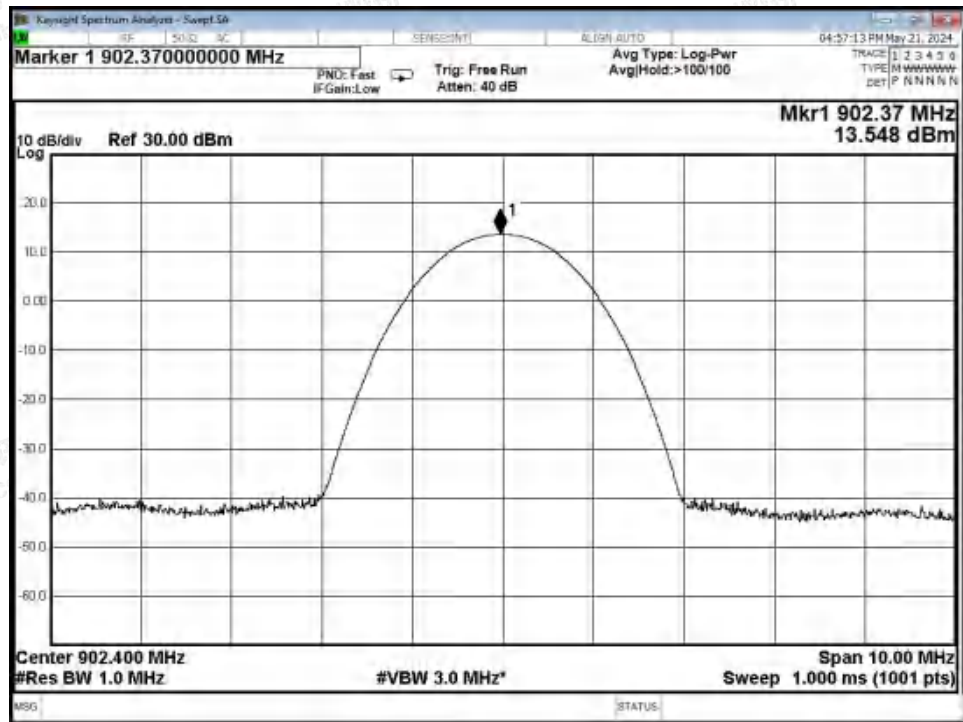
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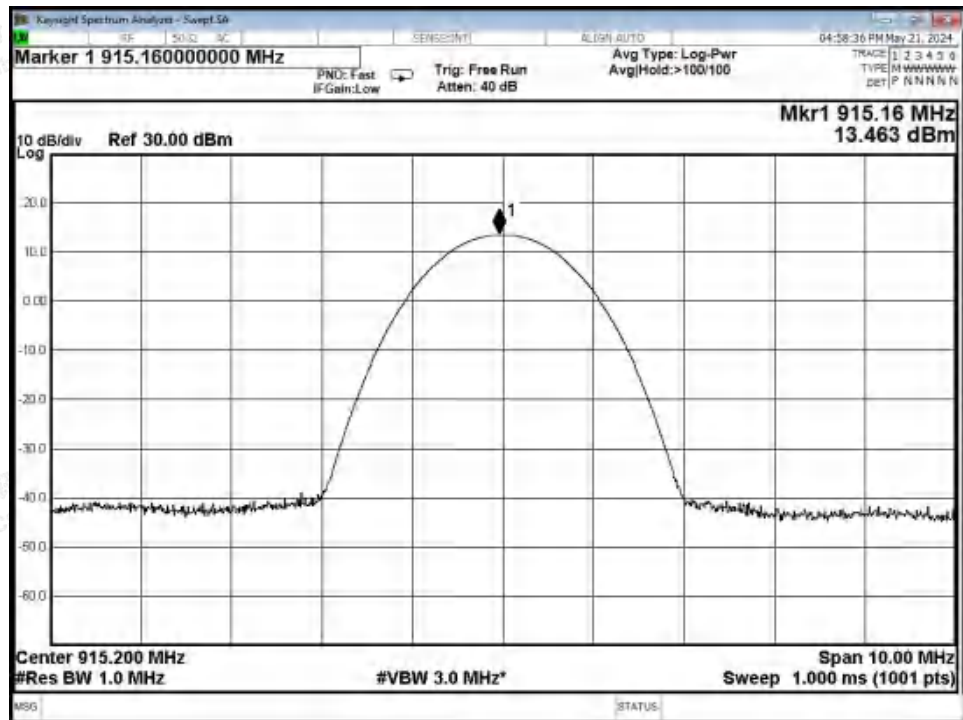
Scan code to check authenticity



Power NVNT 150Kbps 902.4MHz Ant1



Power NVNT 150Kbps 915.2MHz Ant1



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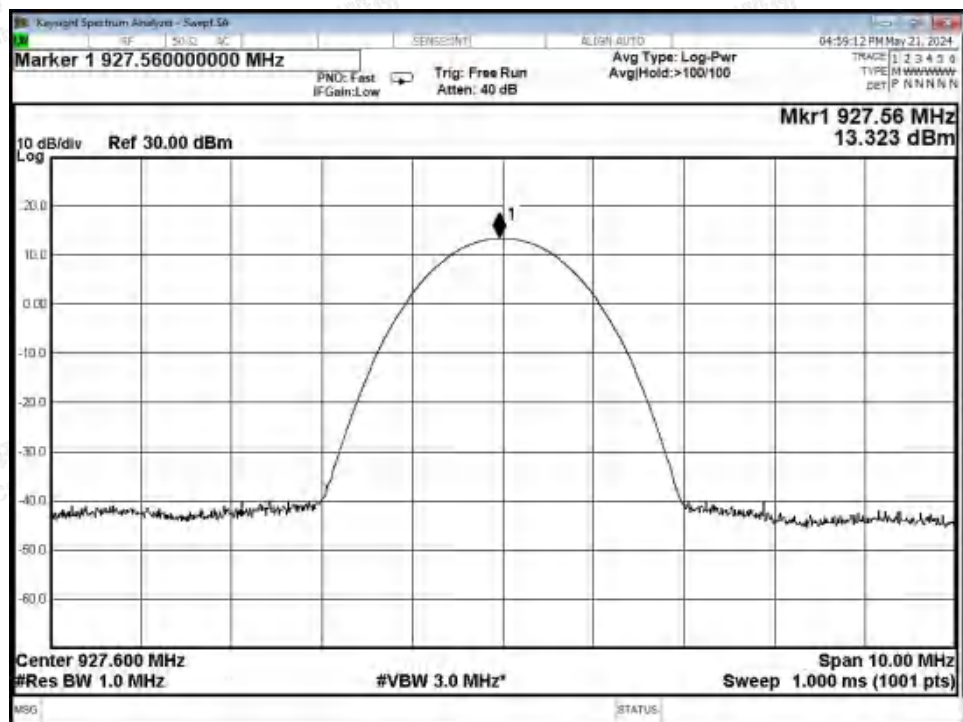
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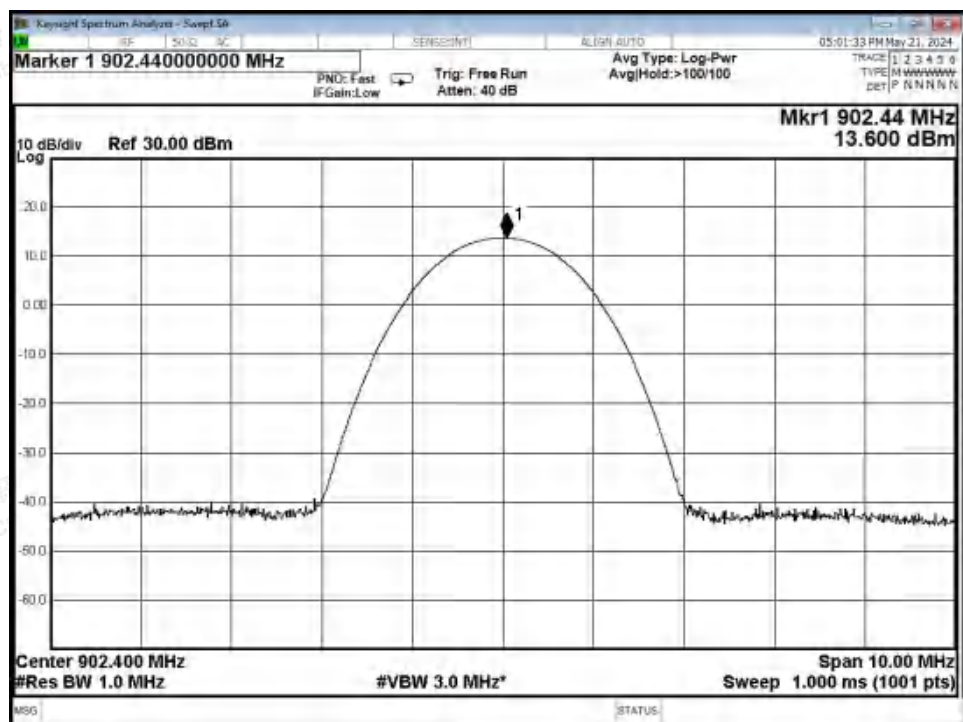
Scan code to check authenticity



Power NVNT 150Kbps 927.6MHz Ant1



Power NVNT 200Kbps 902.4MHz Ant1

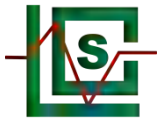


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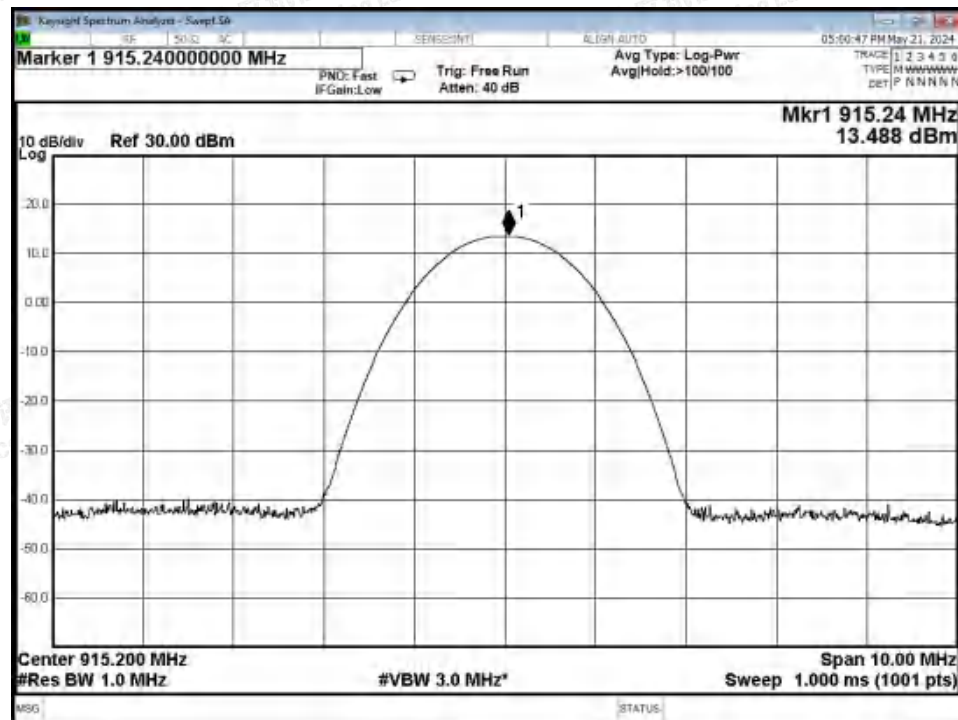
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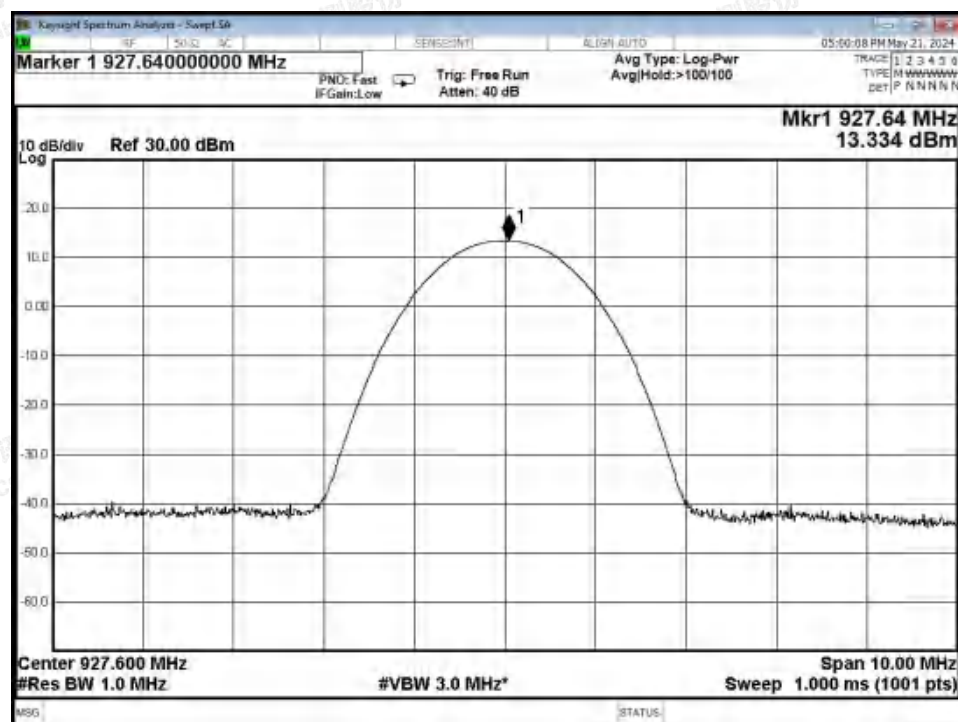
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Power NVNT 200Kbps 915.2MHz Ant1



Power NVNT 200Kbps 927.6MHz Ant1

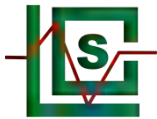


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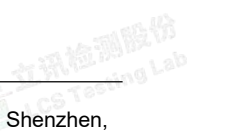
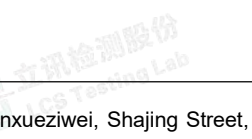
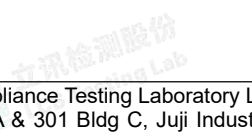
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C.3 Carrier Frequencies Separation

Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (KHz)	Verdict
NVNT	50Kbps	Ant1	915.0204	914.7704	0.2500	60.00	Pass
NVNT	100Kbps	Ant1	914.9708	914.7708	0.2000	82.00	Pass
NVNT	150Kbps	Ant1	914.7576	915.1592	0.4016	122.00	Pass
NVNT	200Kbps	Ant1	914.8456	915.2456	0.4000	164.00	Pass

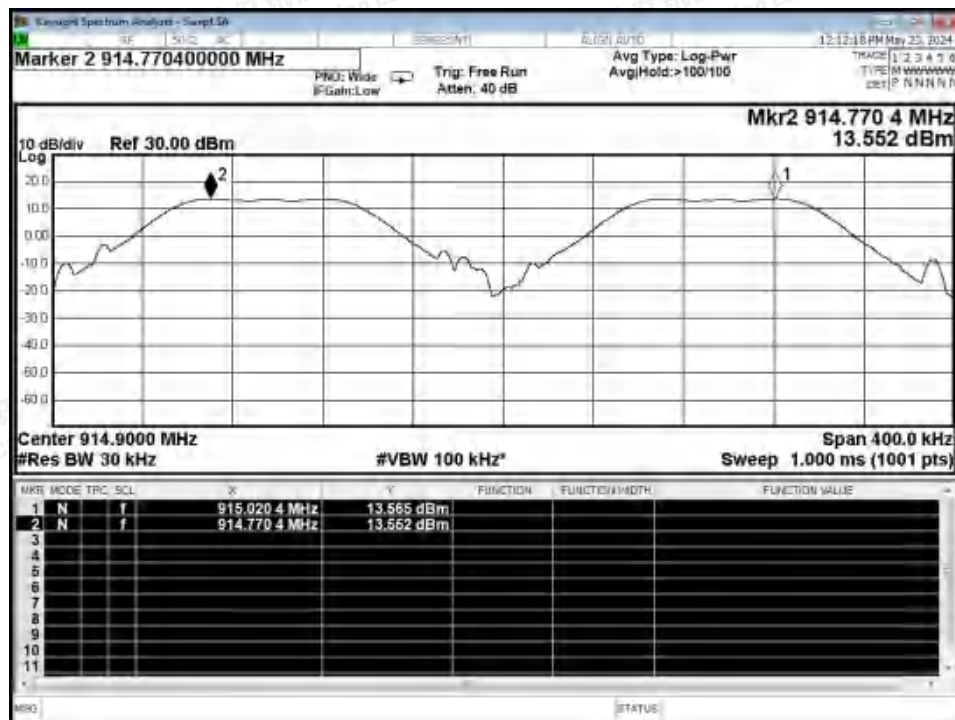


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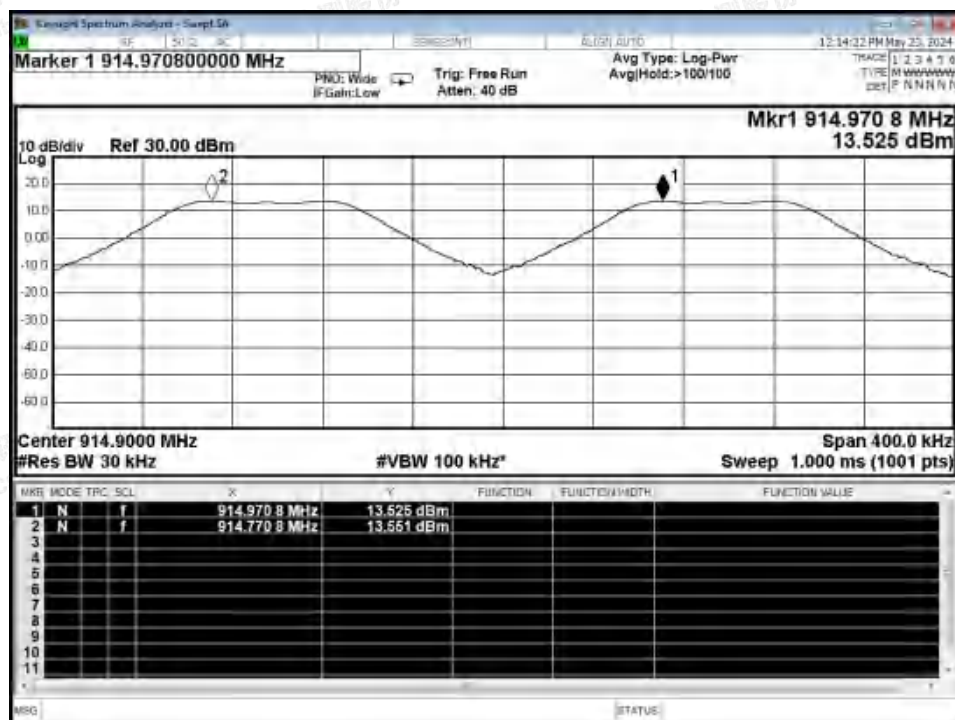


Test Graphs

CFS NVNT 50Kbps Ant1



CFS NVNT 100Kbps MHz Ant1



Shenzhen LCS Compliance Testing Laboratory Ltd.

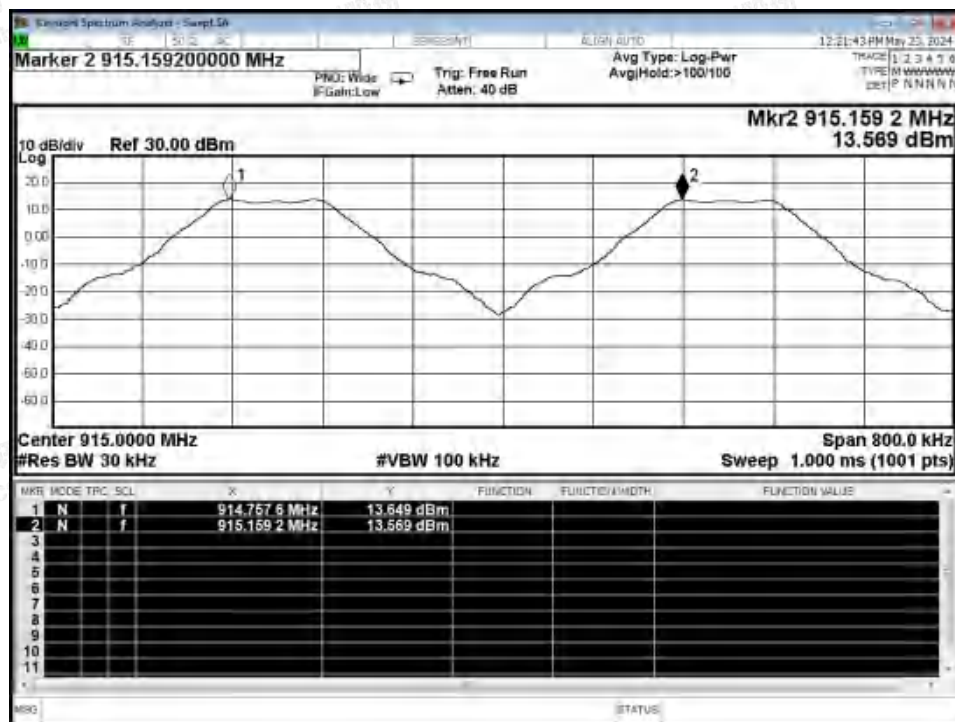
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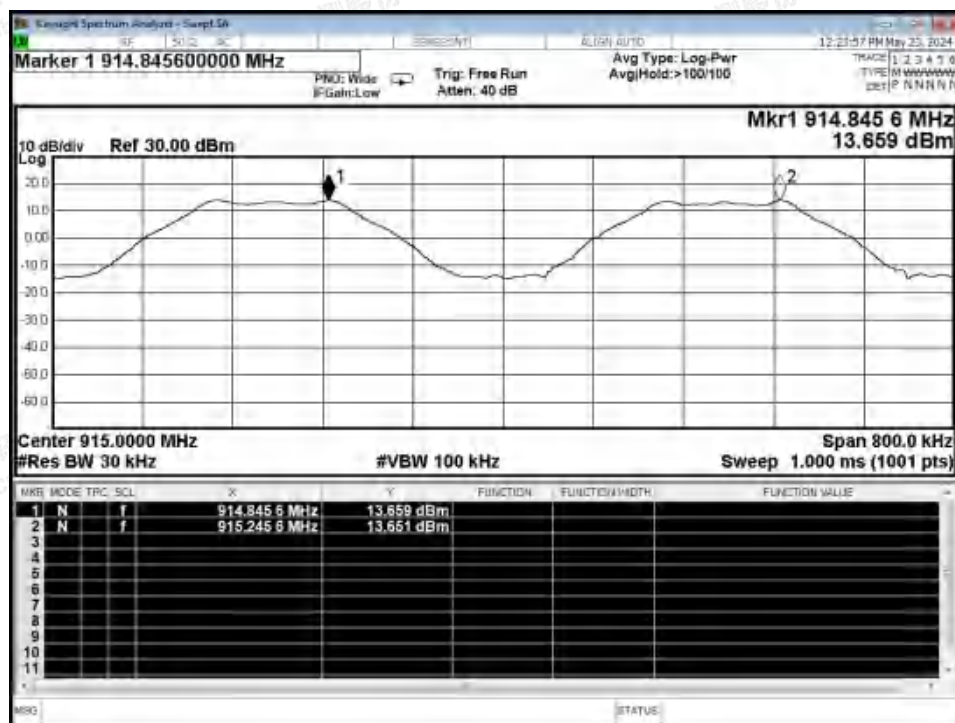
Scan code to check authenticity



CFS NVNT 150Kbps Ant1



CFS NVNT 200Kbps Ant1

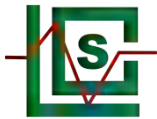


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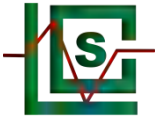


C.4 Dwell Time

Condition	Mode	Antenna	Pulse Time (ms)	Total Dwell Time (s)	Burst Count	Period Time (s)	Limit (s)	Verdict
NVNT	50Kbps	Ant1	9.000	0.036	4	20.0	0.4	Pass
NVNT	100Kbps	Ant1	10.00	0.040	4	20.0	0.4	Pass
NVNT	150Kbps	Ant1	10.00	0.040	4	20.0	0.4	Pass
NVNT	200Kbps	Ant1	10.00	0.040	4	20.0	0.4	Pass

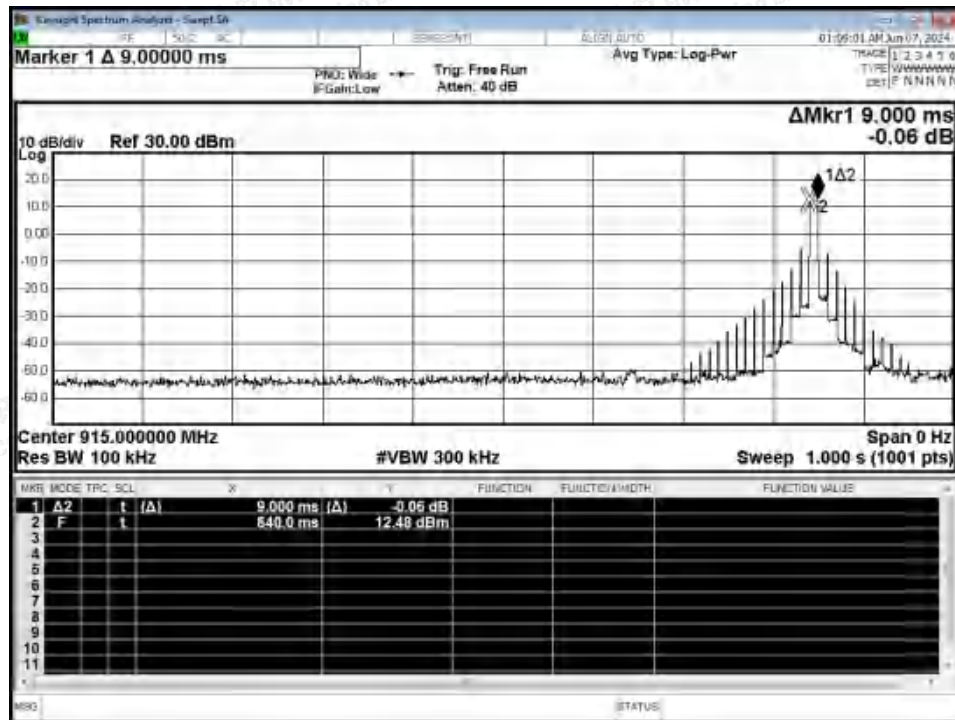


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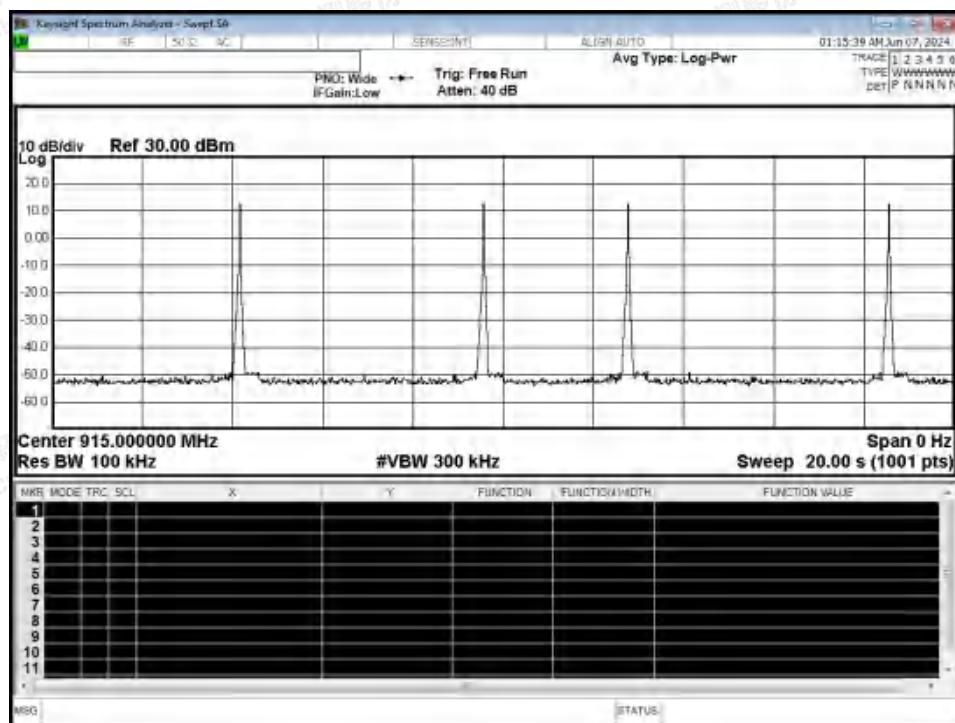


Test Graphs

Dwell NVNT 50Kbps Ant1 One Burst



Dwell NVNT 50Kbps Ant1 Accumulated

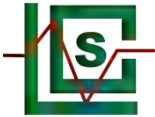


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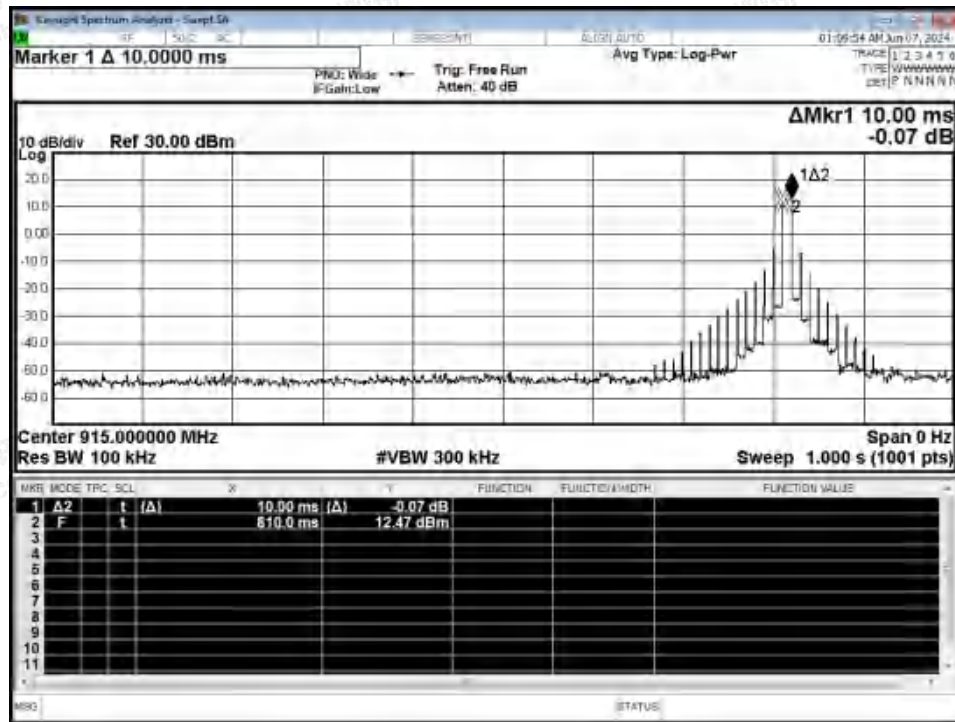
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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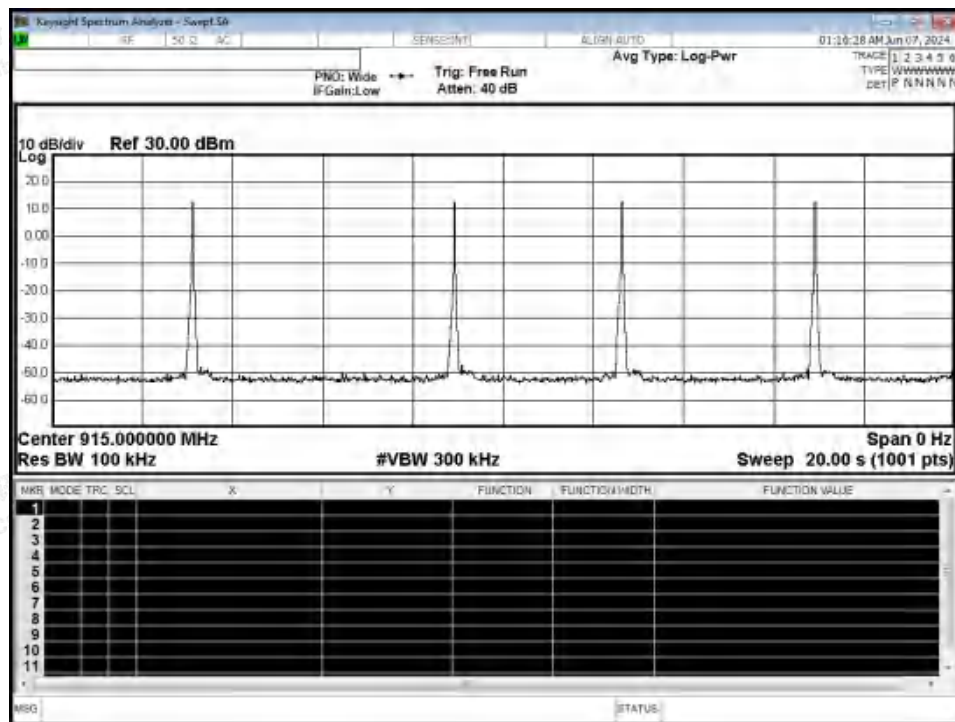
Scan code to check authenticity



Dwell NVNT 100Kbps Ant1 One Burst



Dwell NVNT 100Kbps Ant1 Accumulated

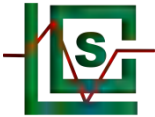


Shenzhen LCS Compliance Testing Laboratory Ltd.

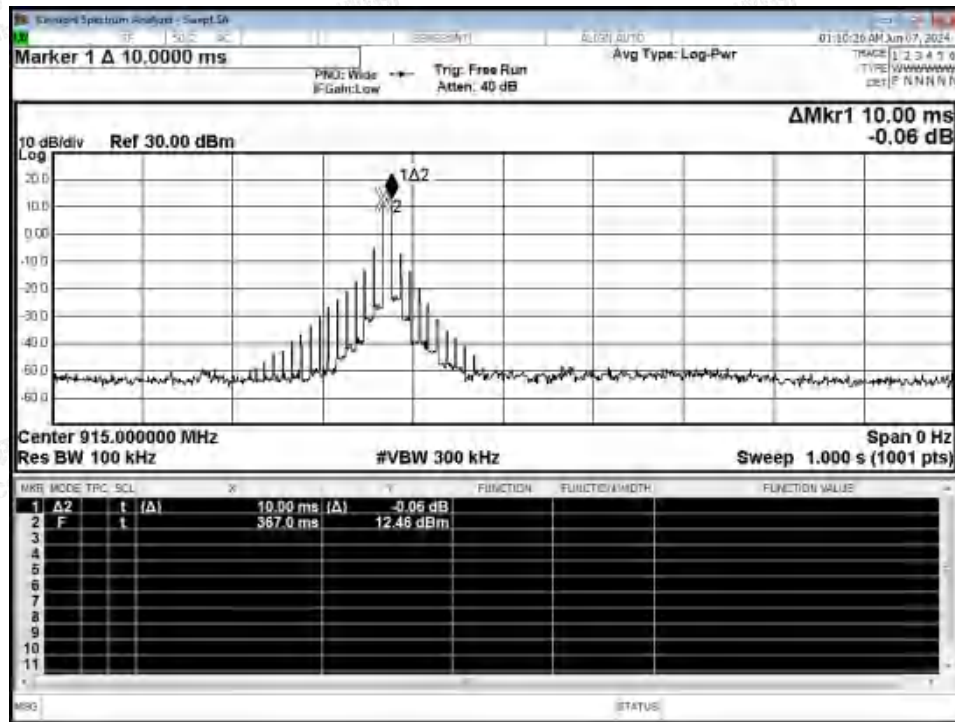
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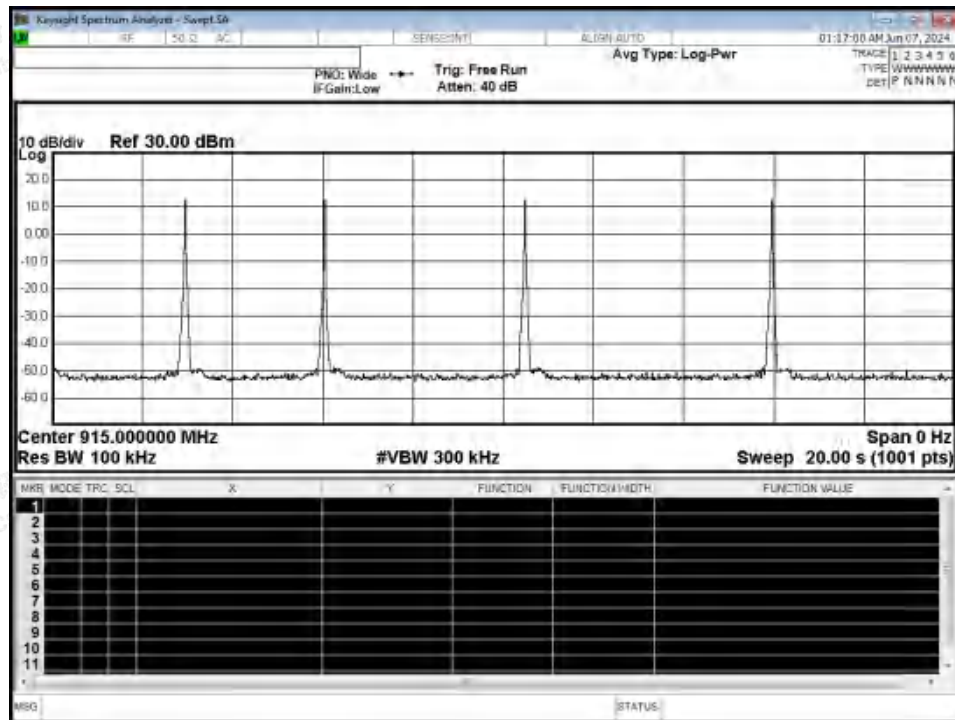
Scan code to check authenticity



Dwell NVNT 150Kbps Ant1 One Burst



Dwell NVNT 150Kbps Ant1 Accumulated

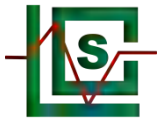


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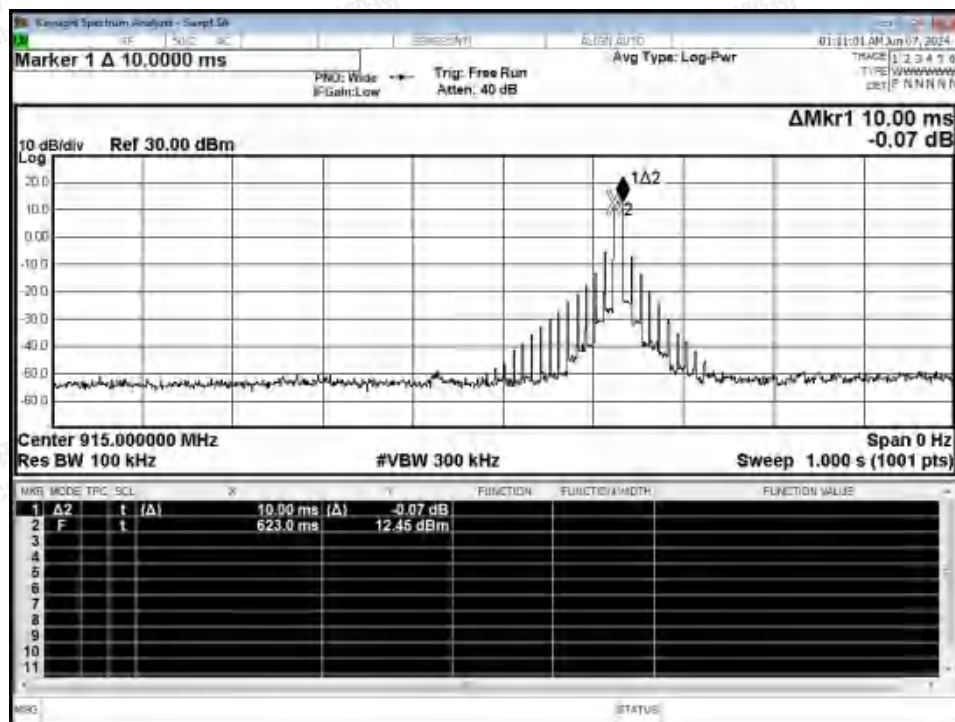
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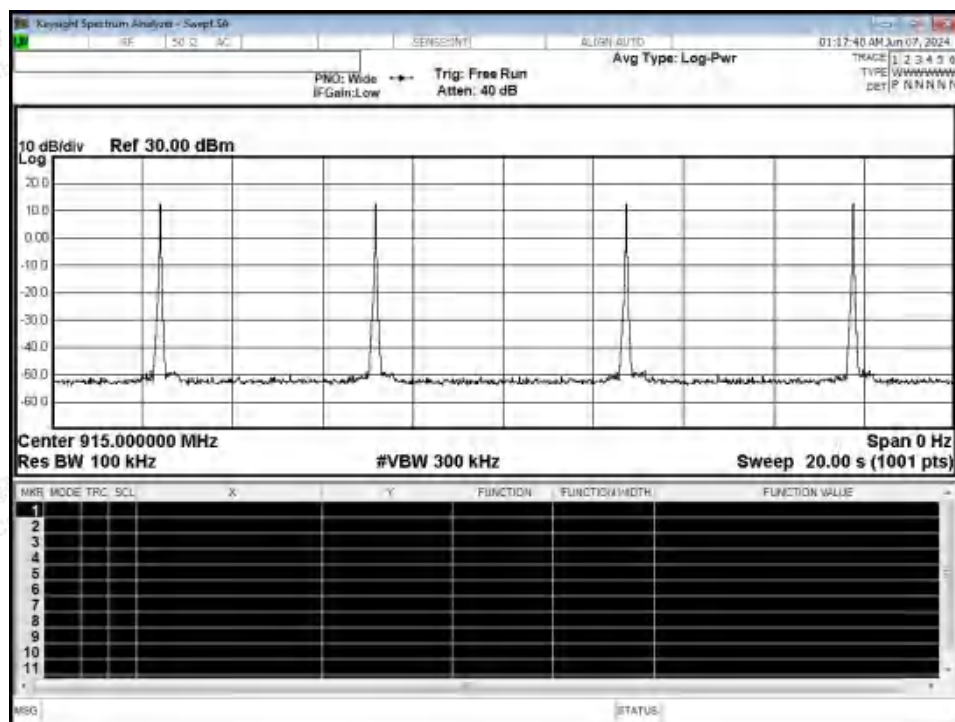
Scan code to check authenticity



Dwell NVNT 200Kbps Ant1 One Burst



Dwell NVNT 200Kbps Ant1 Accumulated

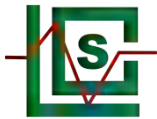


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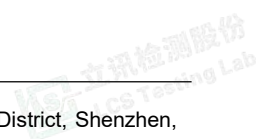
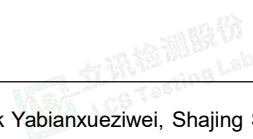
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C.5 Number of Hopping Channel

Condition	Mode	Antenna	Hopping Number	Limit	Verdict
NVNT	50Kbps	Ant1	129	50	Pass
NVNT	100Kbps	Ant1	129	50	Pass
NVNT	150Kbps	Ant1	64	50	Pass
NVNT	200Kbps	Ant1	64	50	Pass

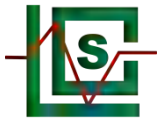


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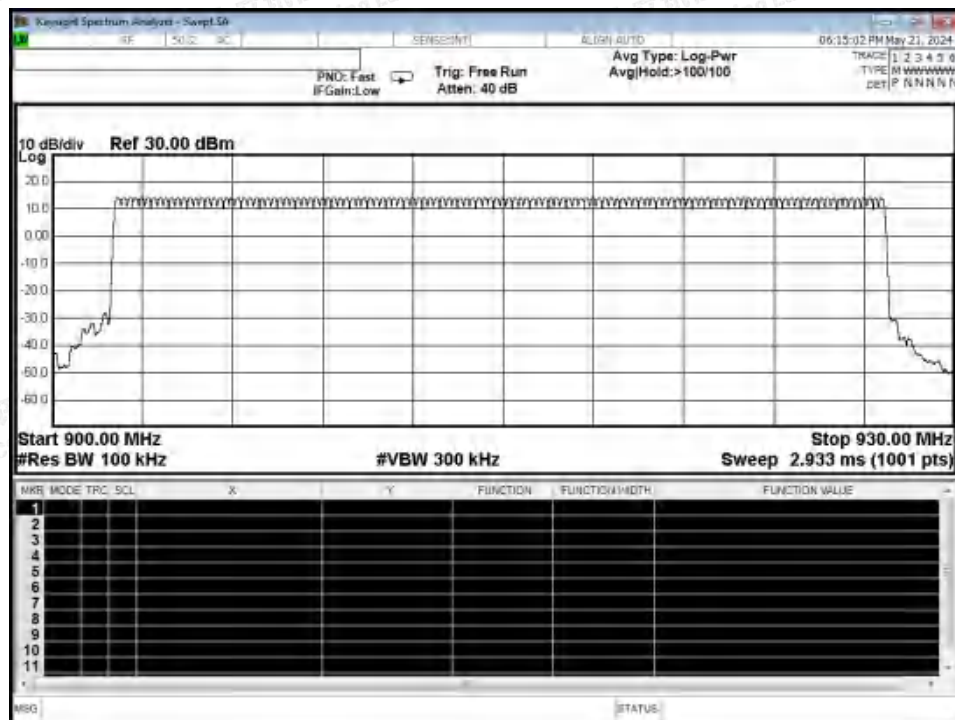
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

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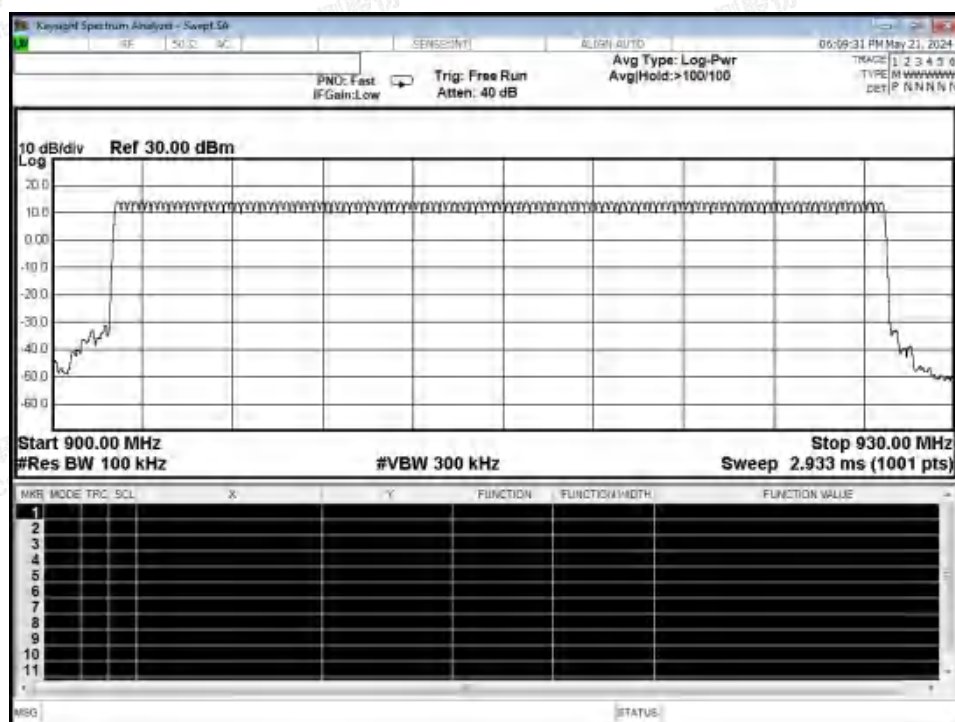


Test Graphs

Hopping No. NVNT 50Kbps Ant1



Hopping No. NVNT 100Kbps MHz Ant1

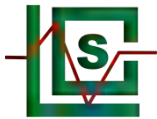


Shenzhen LCS Compliance Testing Laboratory Ltd.

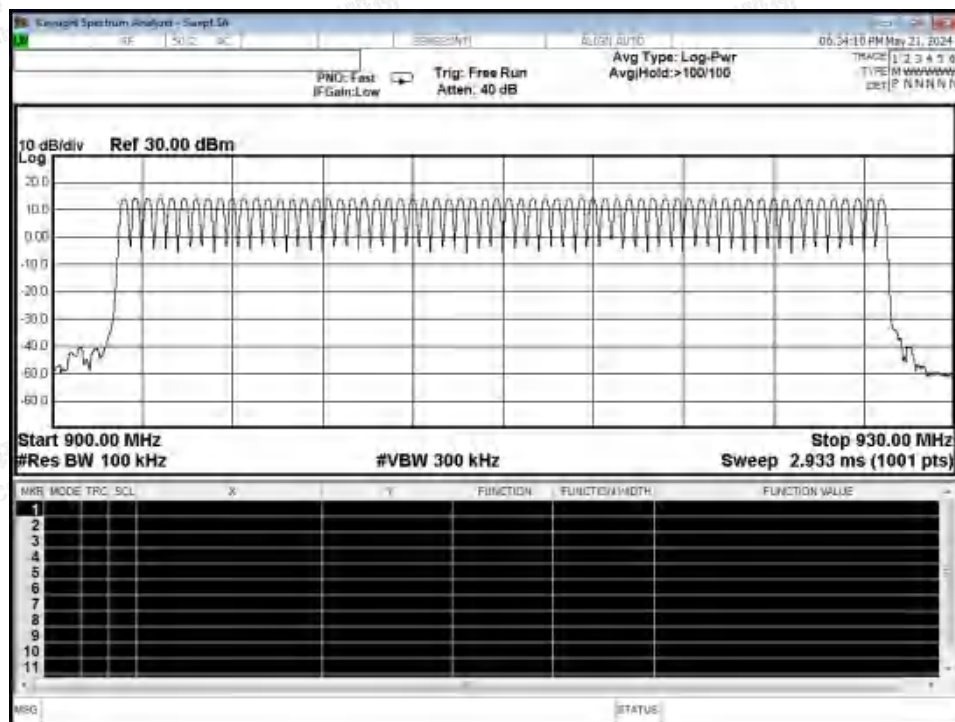
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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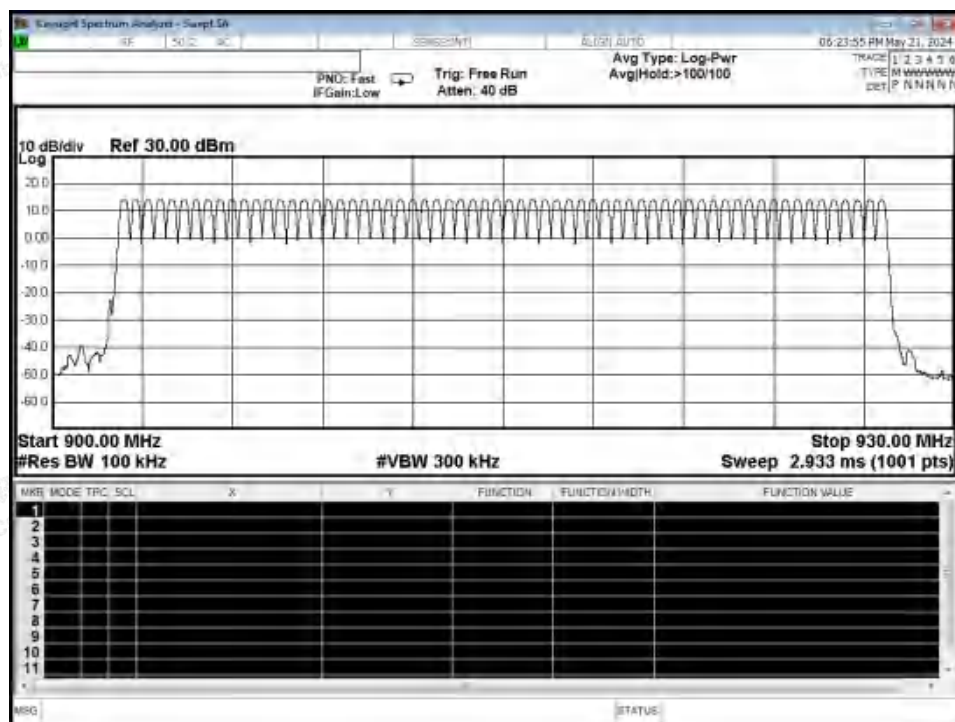
Scan code to check authenticity



Hopping No. NVNT 150Kbps Ant1



Hopping No. NVNT 200Kbps Ant1

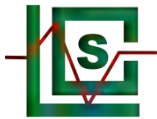


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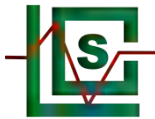


C.6 Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	50Kbps	902.2	Ant1	No-Hopping	-33.36	-20	Pass
NVNT	50Kbps	927.8	Ant1	No-Hopping	-36.05	-20	Pass
NVNT	100Kbps	902.2	Ant1	No-Hopping	-31.12	-20	Pass
NVNT	100Kbps	927.8	Ant1	No-Hopping	-33.50	-20	Pass
NVNT	150Kbps	902.4	Ant1	No-Hopping	-46.19	-20	Pass
NVNT	150Kbps	927.6	Ant1	No-Hopping	-46.24	-20	Pass
NVNT	200Kbps	902.4	Ant1	No-Hopping	-41.08	-20	Pass
NVNT	200Kbps	927.6	Ant1	No-Hopping	-44.30	-20	Pass

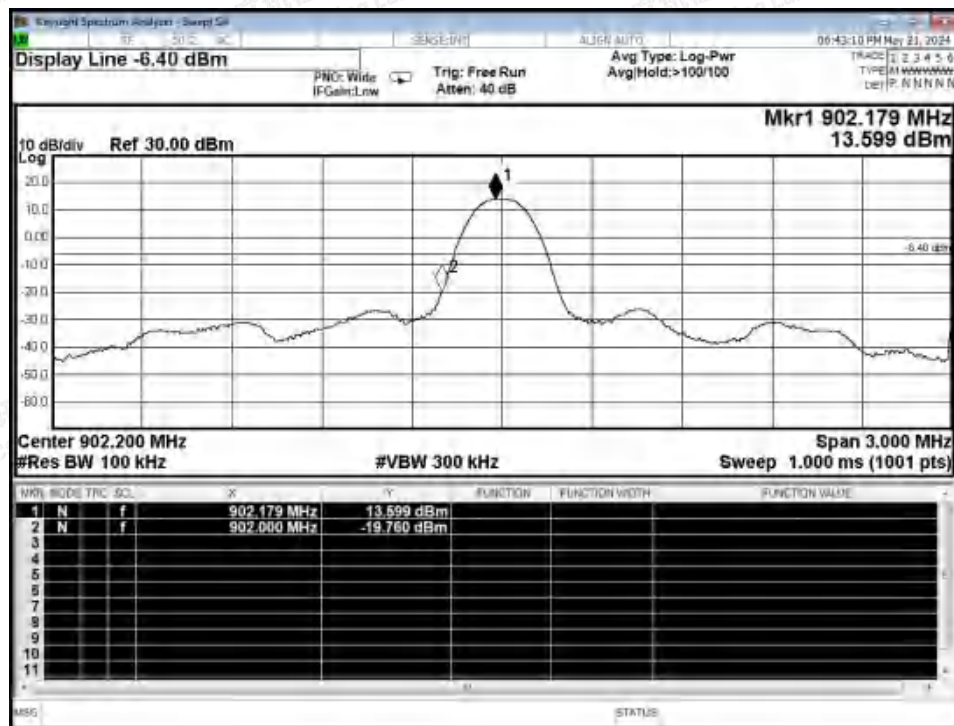


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Scan code to check authenticity

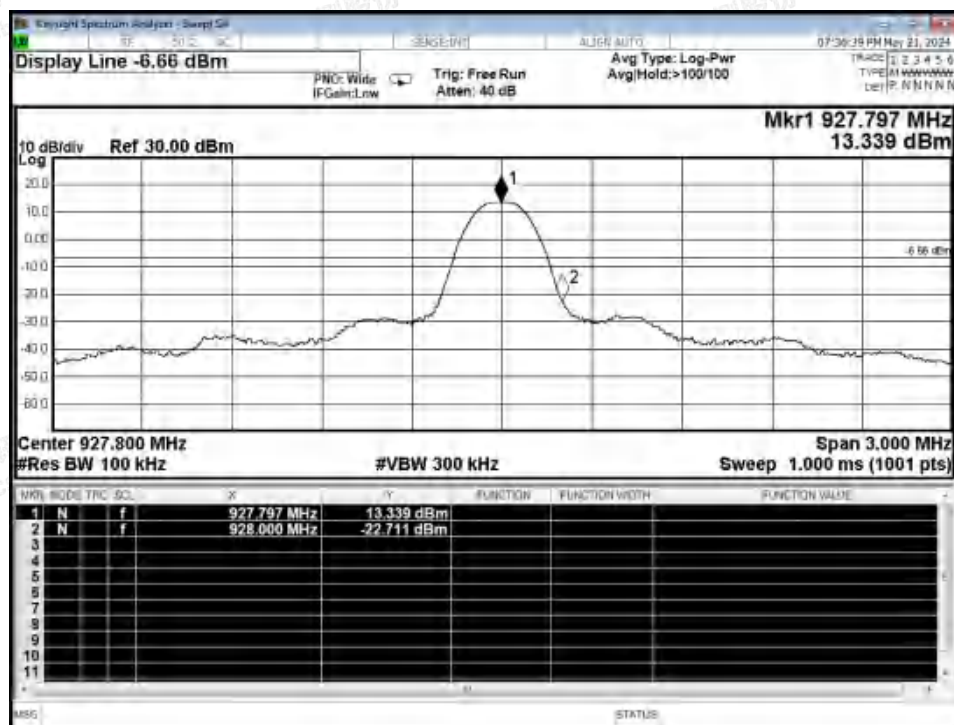


Test Graphs

Band Edge NVNT 50Kbps 902.2MHz Ant1 No-Hopping Ref



Band Edge NVNT 50Kbps 927.8MHz Ant1 No-Hopping Ref

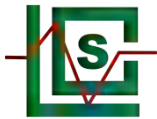


Shenzhen LCS Compliance Testing Laboratory Ltd.

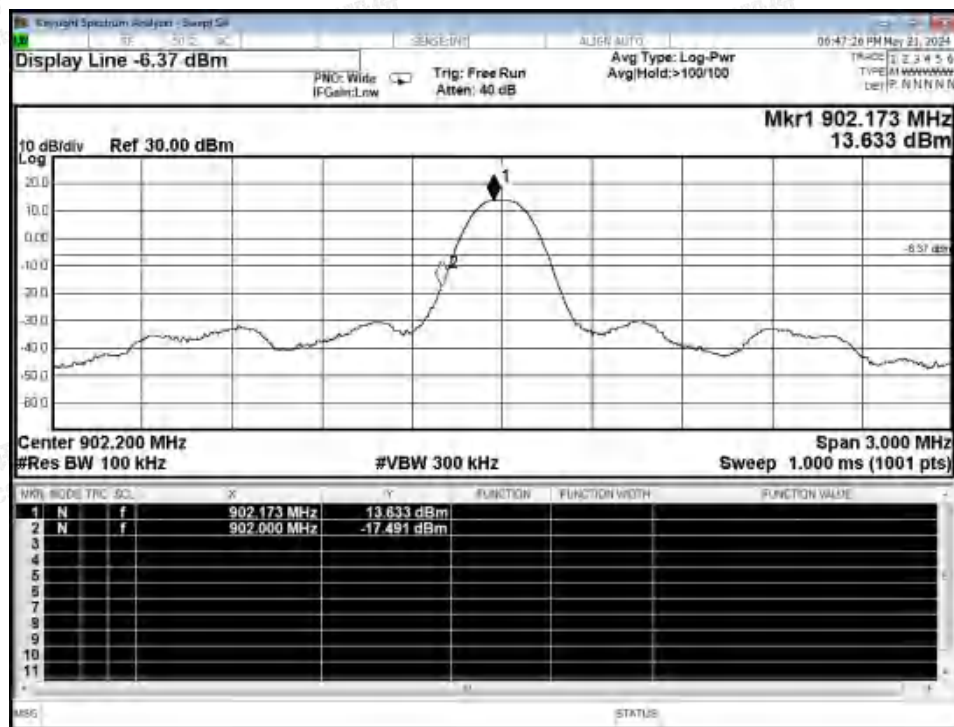
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

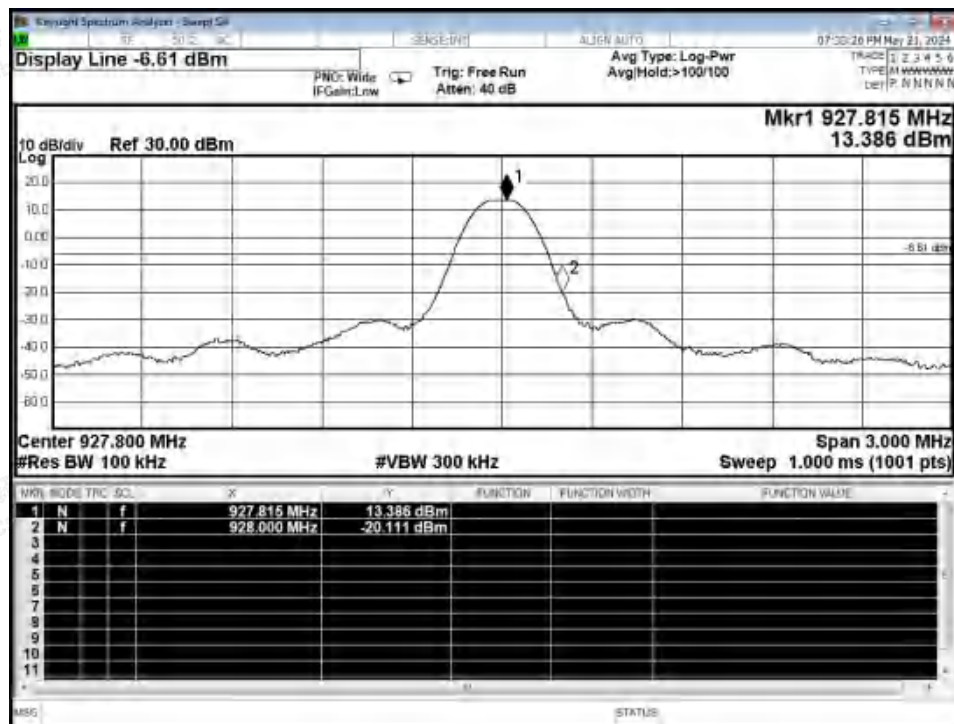
Scan code to check authenticity



Band Edge NVNT 100Kbps 902.2MHz Ant1 No-Hopping Ref



Band Edge NVNT 100Kbps 927.8MHz Ant1 No-Hopping Ref

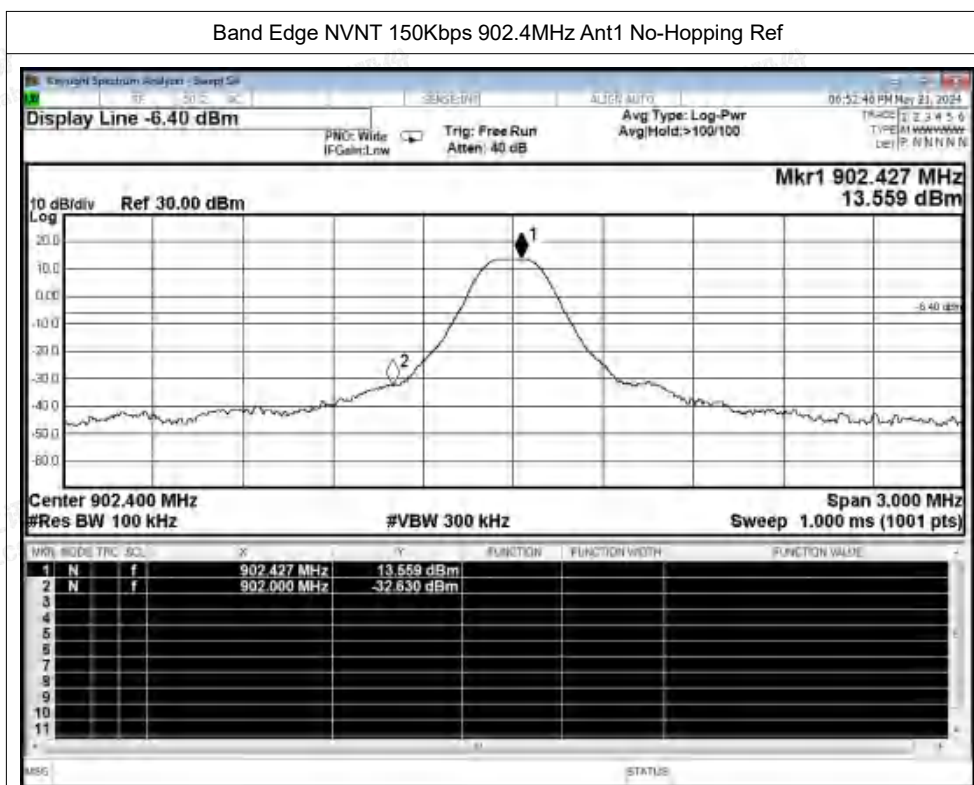


Shenzhen LCS Compliance Testing Laboratory Ltd.

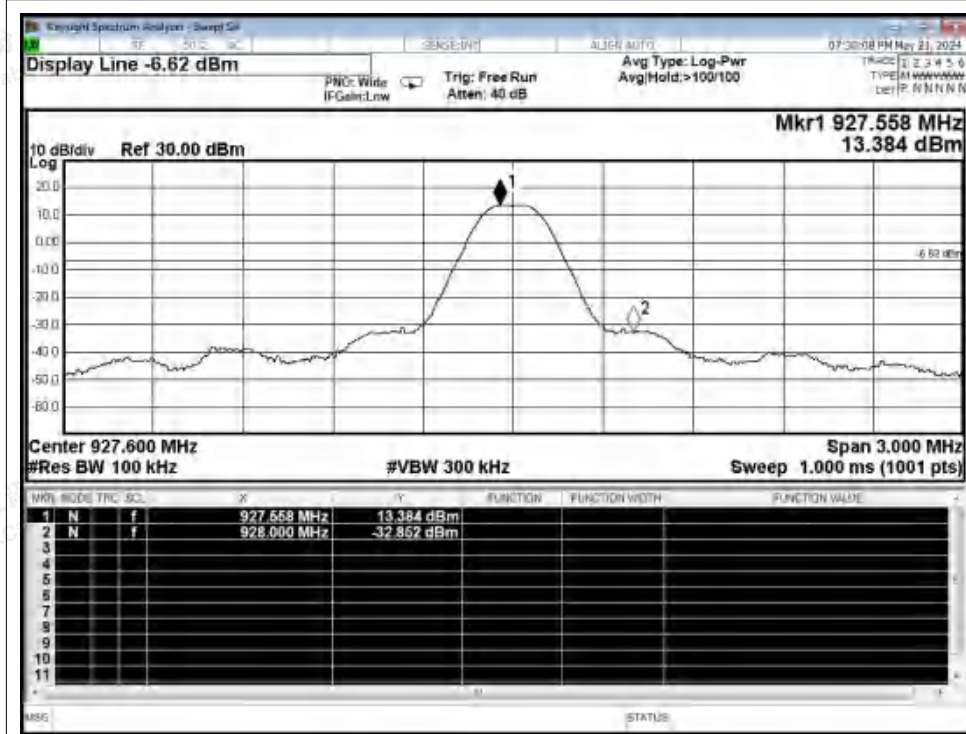
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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Scan code to check authenticity



Band Edge NVNT 150Kbps 927.6MHz Ant1 No-Hopping Ref



Shenzhen LCS Compliance Testing Laboratory Ltd.

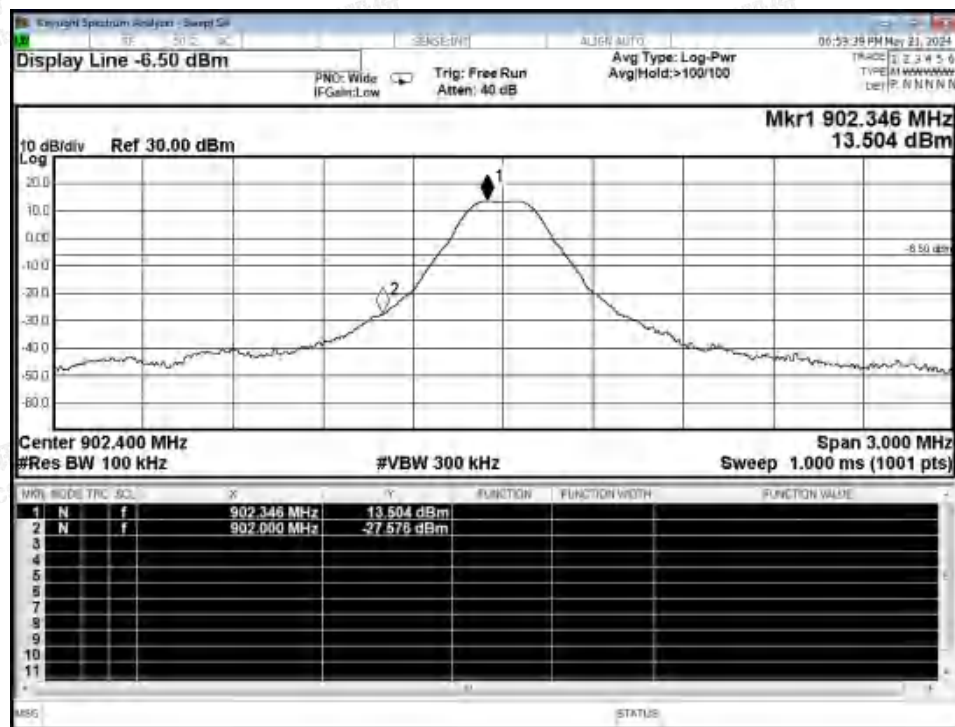
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

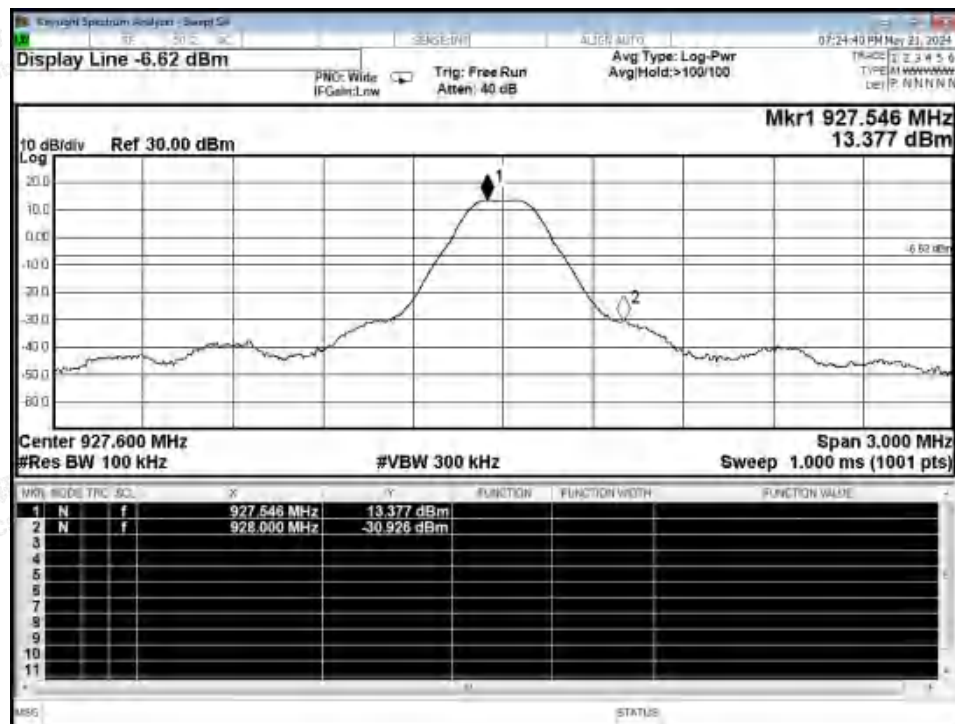
Scan code to check authenticity



Band Edge NVNT 200Kbps 902.4MHz Ant1 No-Hopping Ref



Band Edge NVNT 200Kbps 927.6MHz Ant1 No-Hopping Ref

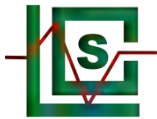


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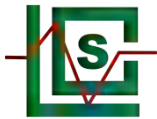


(Hopping)

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	50Kbps	902.2	Ant1	Hopping	-35.96	-20	Pass
NVNT	50Kbps	927.8	Ant1	Hopping	-36.89	-20	Pass
NVNT	100Kbps	902.2	Ant1	Hopping	-32.04	-20	Pass
NVNT	100Kbps	927.8	Ant1	Hopping	-33.28	-20	Pass
NVNT	150Kbps	902.4	Ant1	Hopping	-47.43	-20	Pass
NVNT	150Kbps	927.6	Ant1	Hopping	-47.28	-20	Pass
NVNT	200Kbps	902.4	Ant1	Hopping	-44.12	-20	Pass
NVNT	200Kbps	927.6	Ant1	Hopping	-46.71	-20	Pass

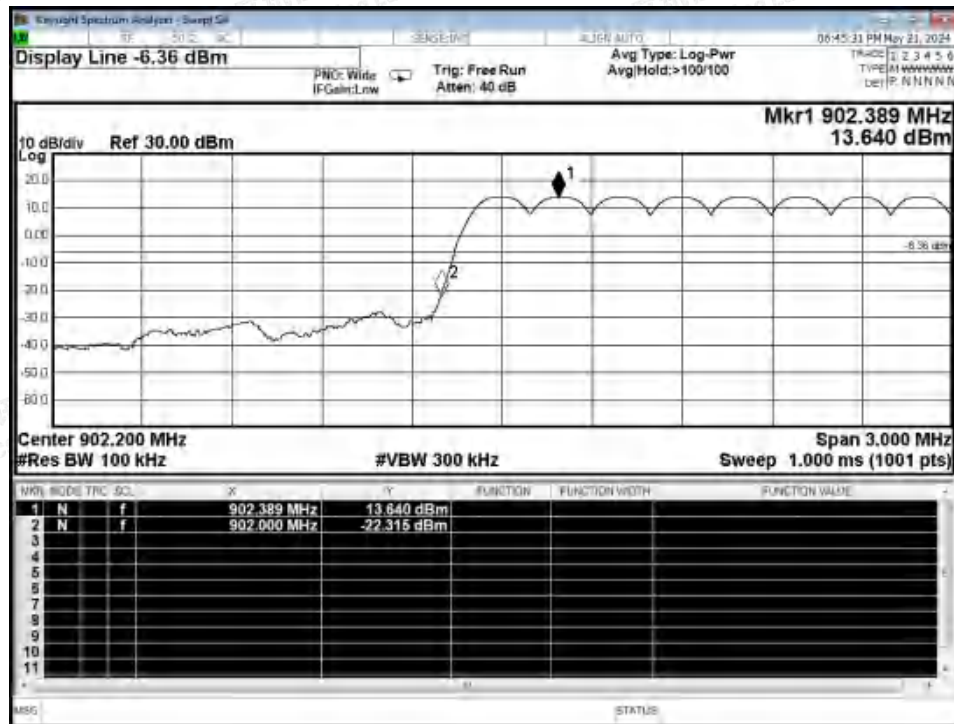


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Scan code to check authenticity

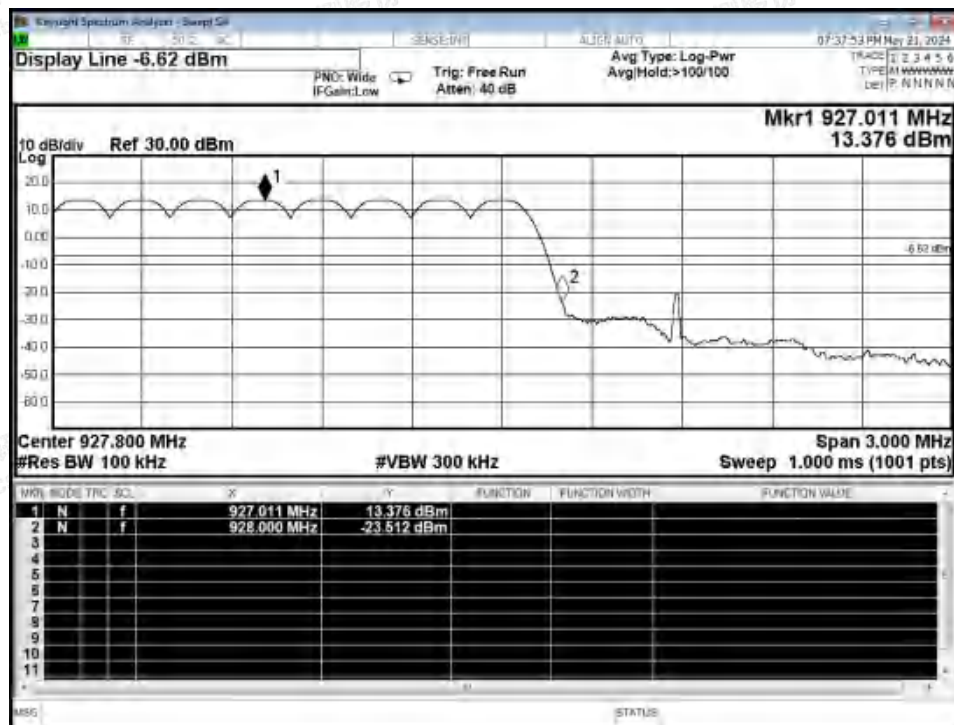


Test Graphs

Band Edge(Hopping) NVNT 50Kbps 902.2MHz Ant1 Hopping Ref



Band Edge(Hopping) NVNT 50Kbps 927.8MHz Ant1 Hopping Ref



Shenzhen LCS Compliance Testing Laboratory Ltd.

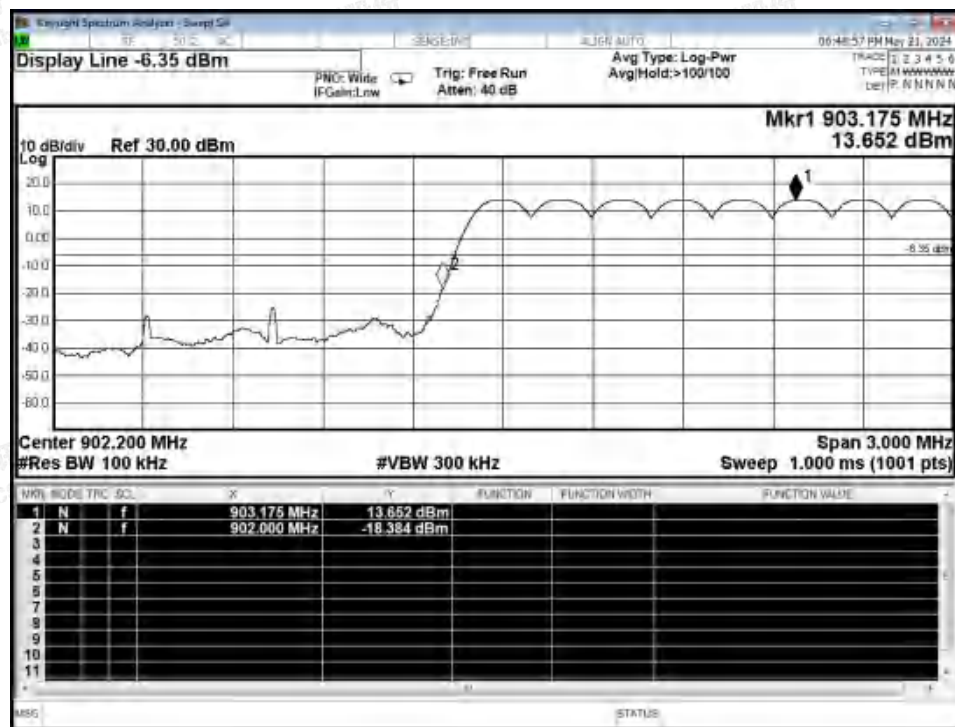
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

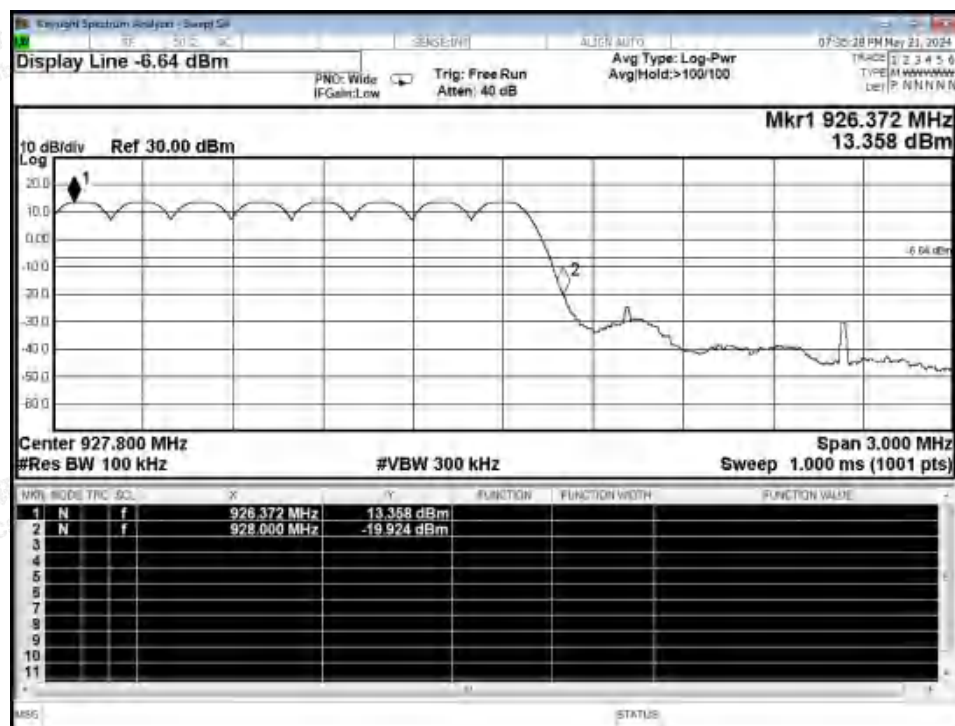
Scan code to check authenticity



Band Edge(Hopping) NVNT 100Kbps 902.2MHz Ant1 Hopping Ref



Band Edge(Hopping) NVNT 100Kbps 927.8MHz Ant1 Hopping Ref



Shenzhen LCS Compliance Testing Laboratory Ltd.

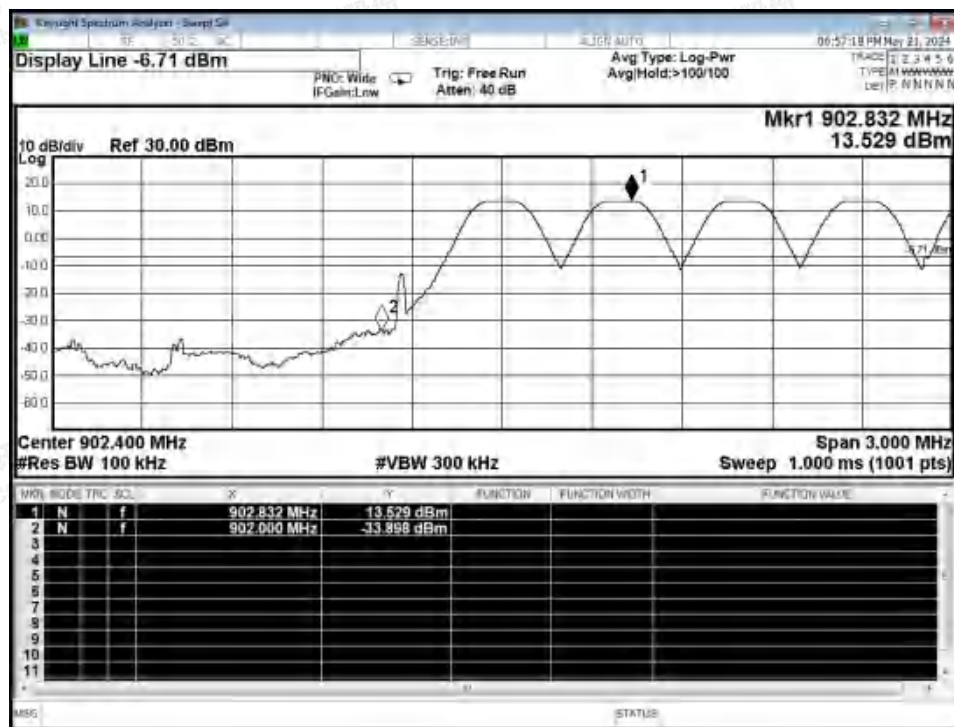
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

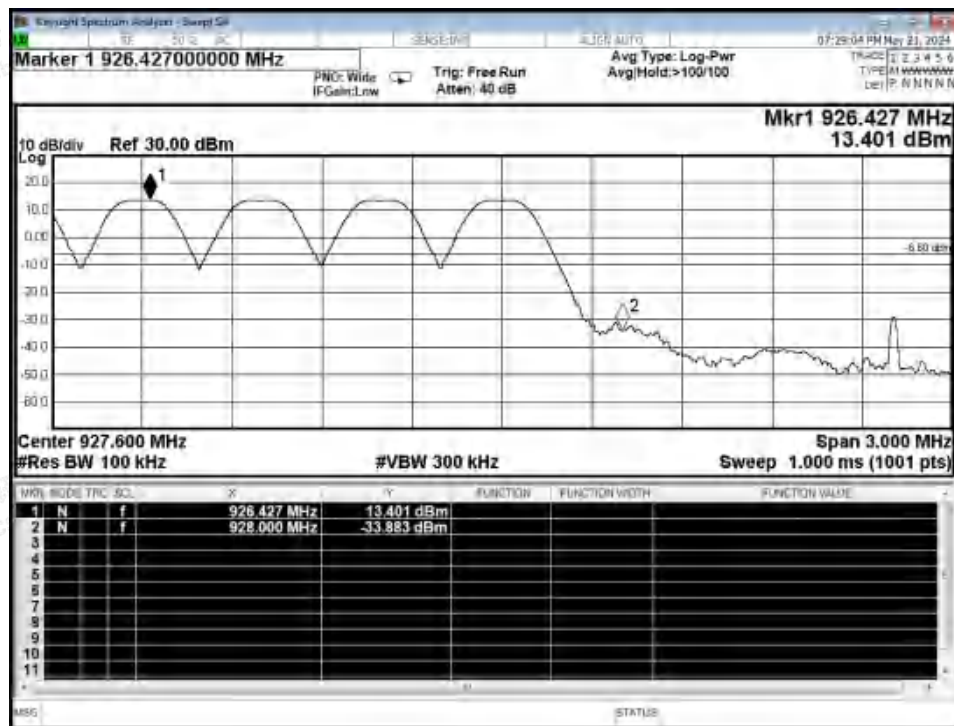
Scan code to check authenticity



Band Edge(Hopping) NVNT 150Kbps 902.4MHz Ant1 Hopping Ref



Band Edge(Hopping) NVNT 150Kbps 927.6MHz Ant1 Hopping Ref

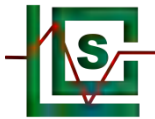


Shenzhen LCS Compliance Testing Laboratory Ltd.

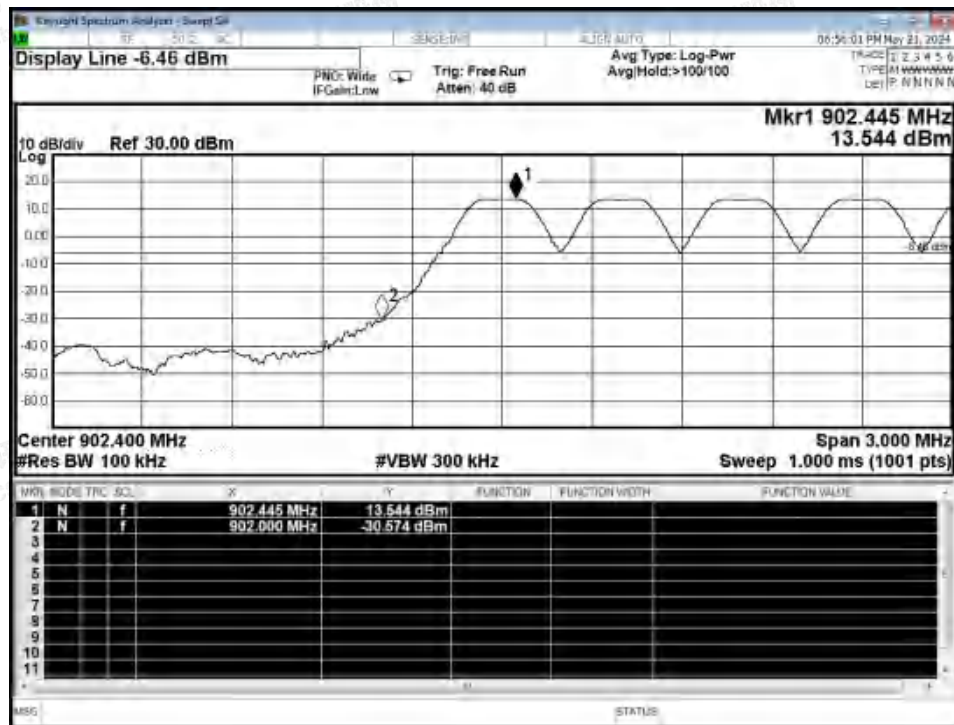
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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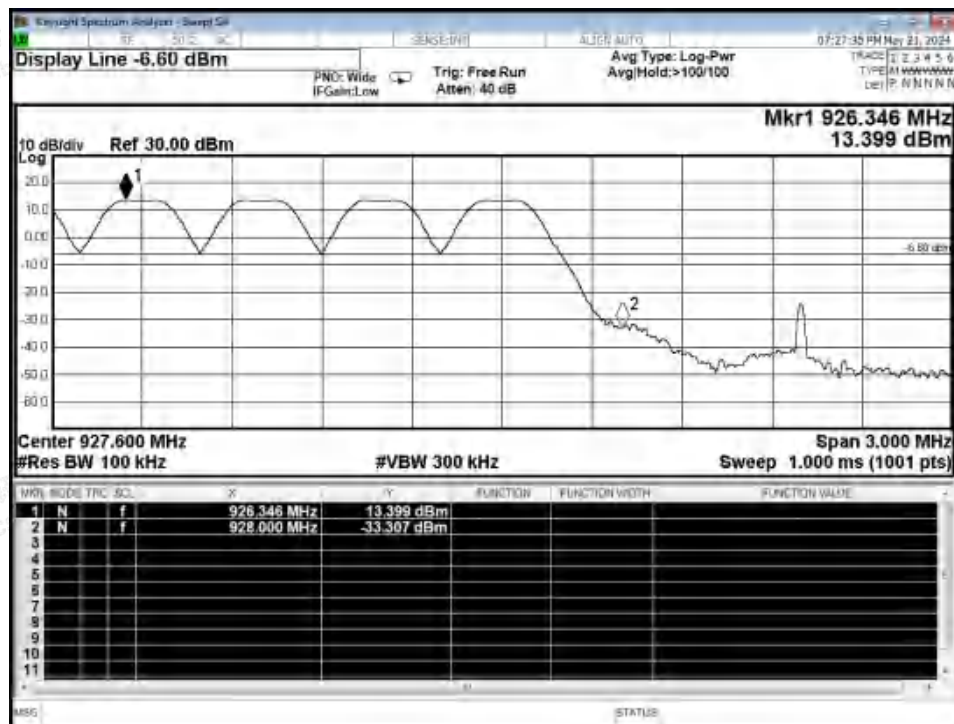
Scan code to check authenticity



Band Edge(Hopping) NVNT 200Kbps 902.4MHz Ant1 Hopping Ref



Band Edge(Hopping) NVNT 200Kbps 927.6MHz Ant1 Hopping Ref

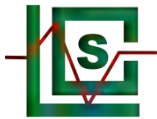


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C.7 Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	50Kbps	902.2	Ant1	-46.47	-20	Pass
NVNT	50Kbps	915.0	Ant1	-46.29	-20	Pass
NVNT	50Kbps	927.8	Ant1	-46.67	-20	Pass
NVNT	100Kbps	902.2	Ant1	-46.70	-20	Pass
NVNT	100Kbps	915.0	Ant1	-46.70	-20	Pass
NVNT	100Kbps	927.8	Ant1	-46.46	-20	Pass
NVNT	150Kbps	902.4	Ant1	-46.39	-20	Pass
NVNT	150Kbps	915.2	Ant1	-46.40	-20	Pass
NVNT	150Kbps	927.6	Ant1	-46.36	-20	Pass
NVNT	200Kbps	902.4	Ant1	-46.65	-20	Pass
NVNT	200Kbps	915.2	Ant1	-46.75	-20	Pass
NVNT	200Kbps	927.6	Ant1	-47.06	-20	Pass

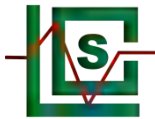


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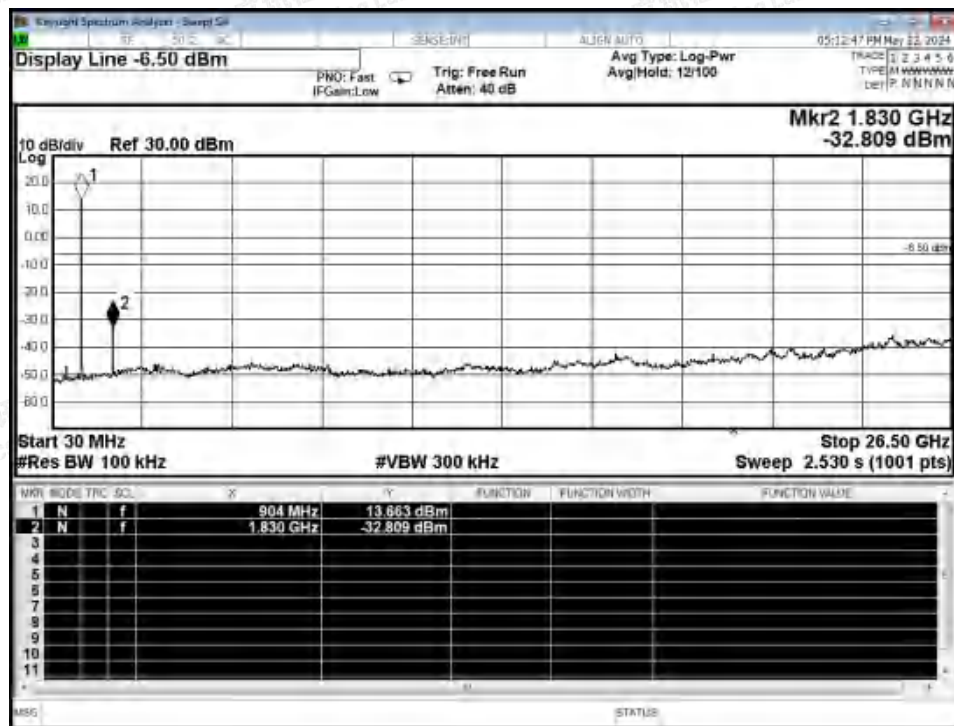
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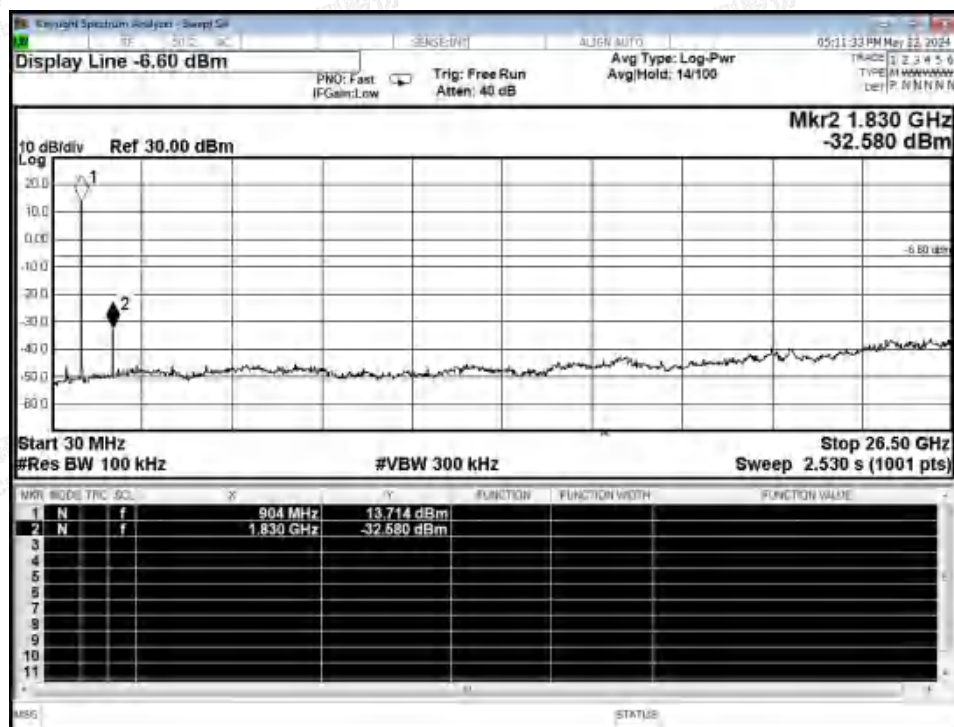


Test Graphs

Tx. Spurious NVNT 50Kbps 902.2MHz Ant1 Emission



Tx. Spurious NVNT 50Kbps 915.0MHz Ant1 Emission

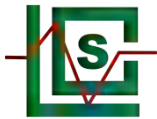


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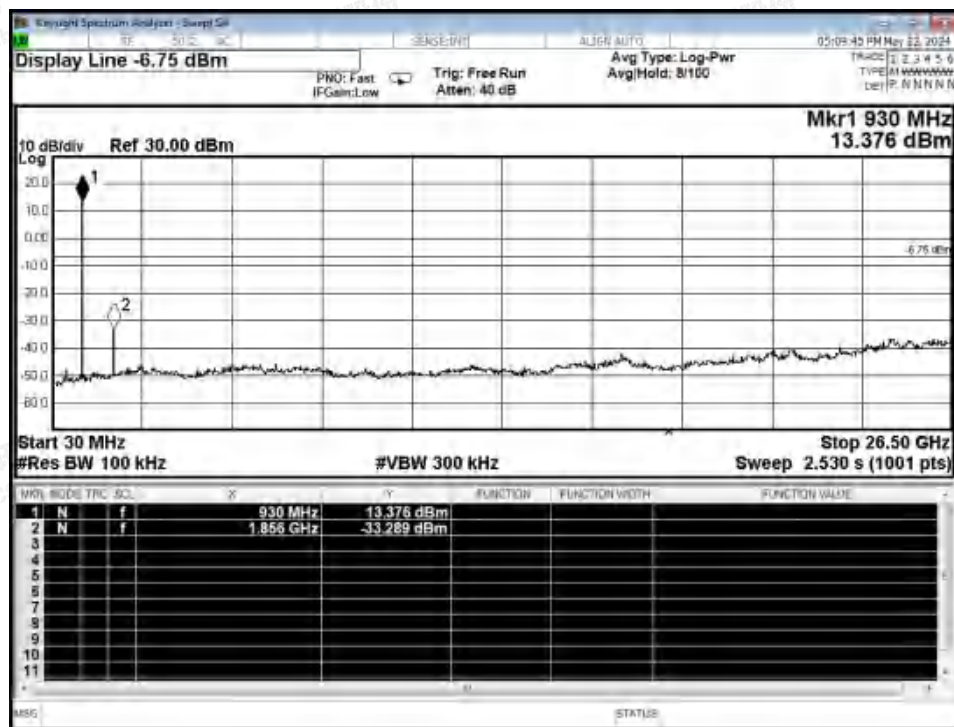
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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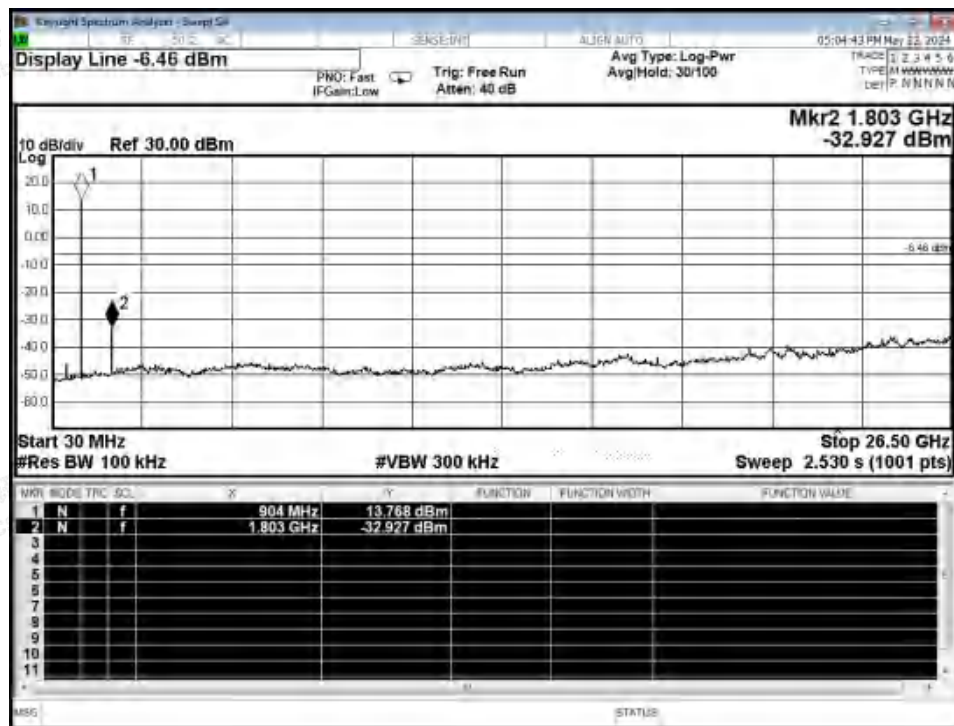
Scan code to check authenticity



Tx. Spurious NVNT 50Kbps 927.8MHz Ant1 Emission



Tx. Spurious NVNT 100Kbps 902.2MHz Ant1 Emission

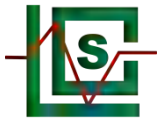


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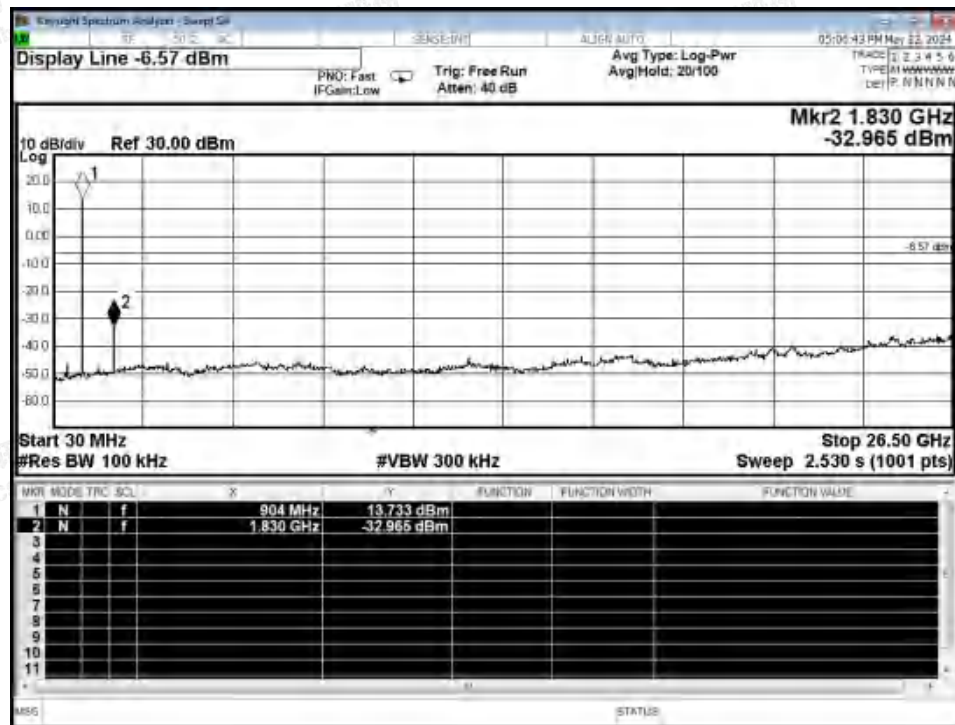
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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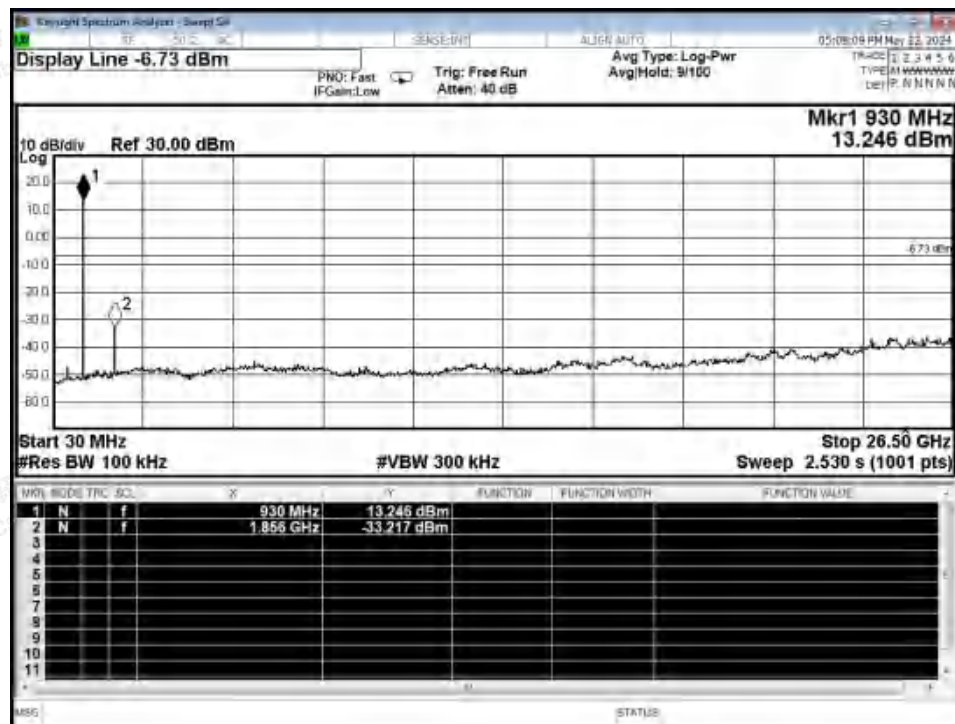
Scan code to check authenticity



Tx. Spurious NVNT 100Kbps 915.0MHz Ant1 Emission



Tx. Spurious NVNT 100Kbps 927.8MHz Ant1 Emission

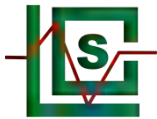


Shenzhen LCS Compliance Testing Laboratory Ltd.

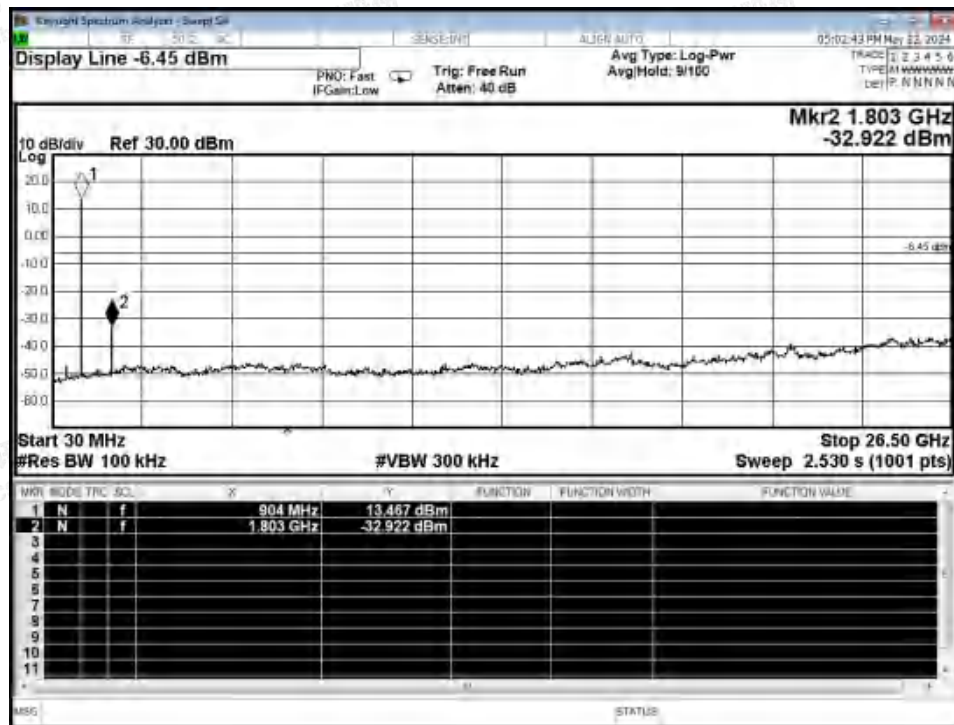
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

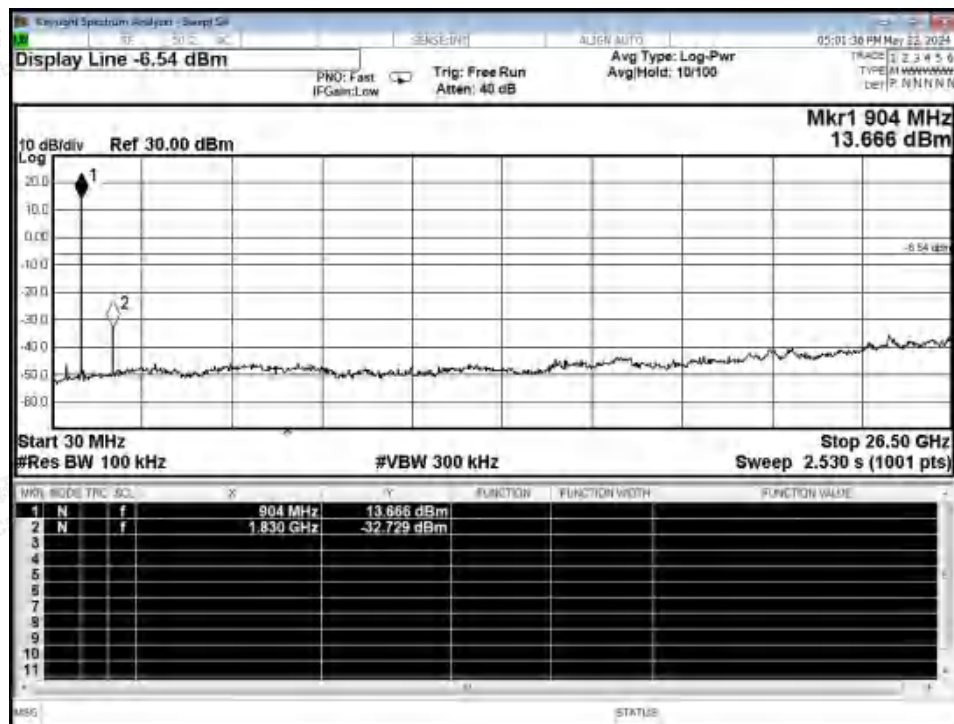
Scan code to check authenticity



Tx. Spurious NVNT 150Kbps 902.4MHz Ant1 Emission



Tx. Spurious NVNT 150Kbps 915.2MHz Ant1 Emission

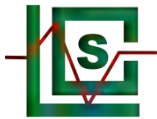


Shenzhen LCS Compliance Testing Laboratory Ltd.

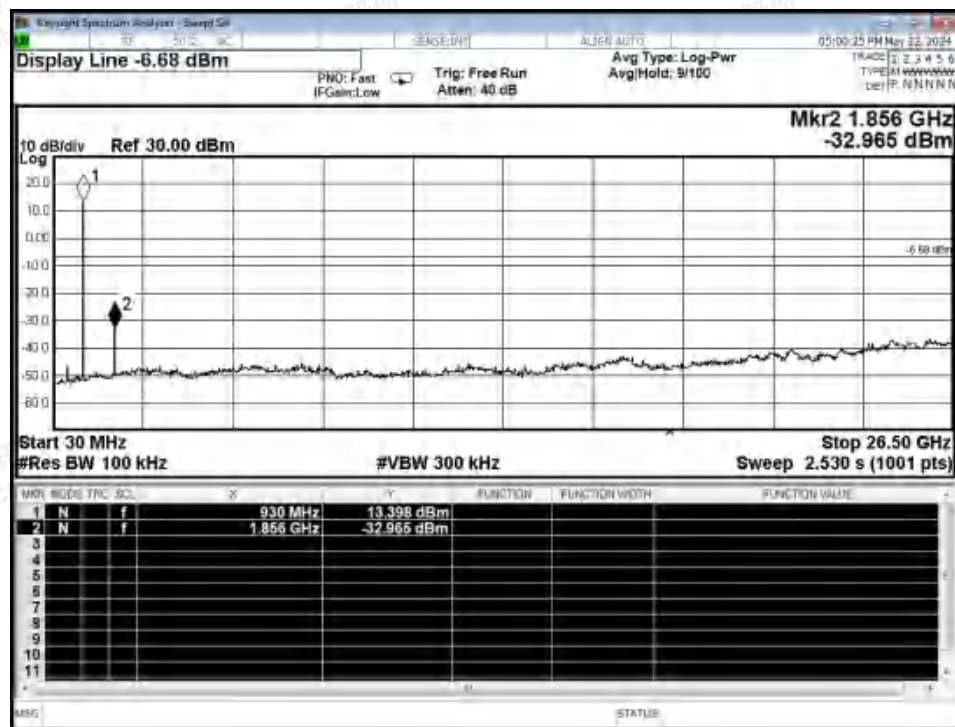
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

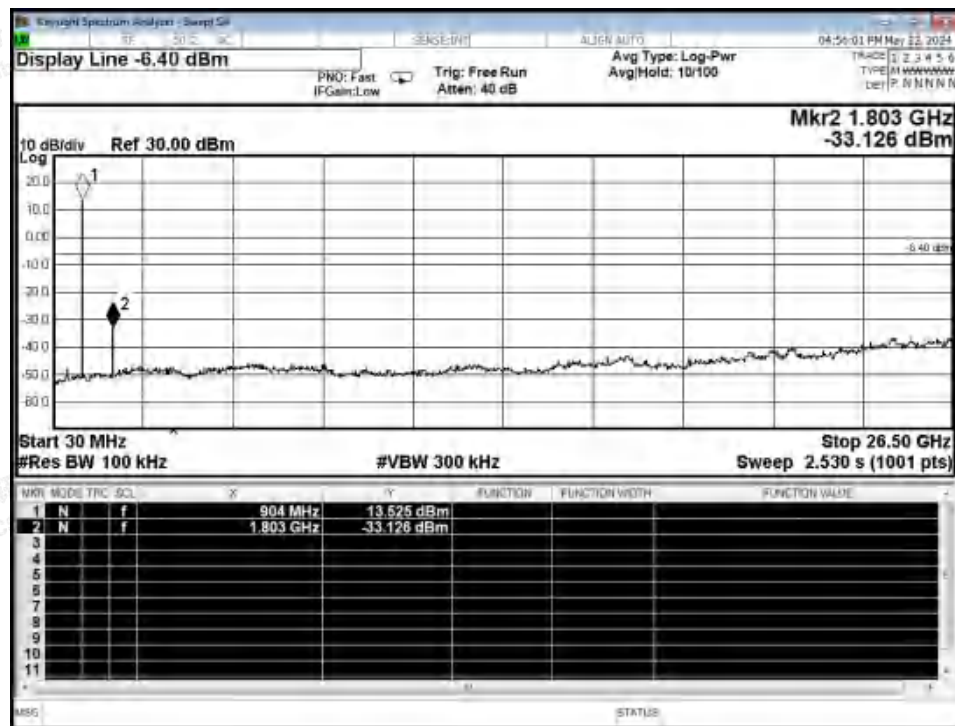
Scan code to check authenticity



Tx. Spurious NVNT 150Kbps 927.6MHz Ant1 Emission



Tx. Spurious NVNT 200Kbps 902.4MHz Ant1 Emission

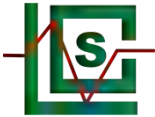


Shenzhen LCS Compliance Testing Laboratory Ltd.

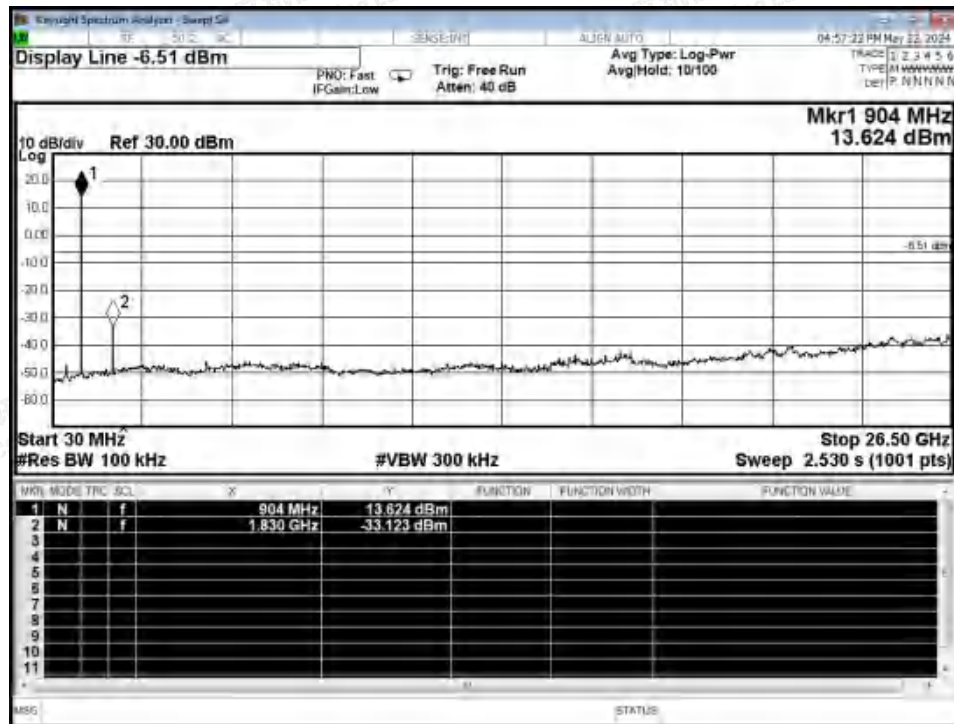
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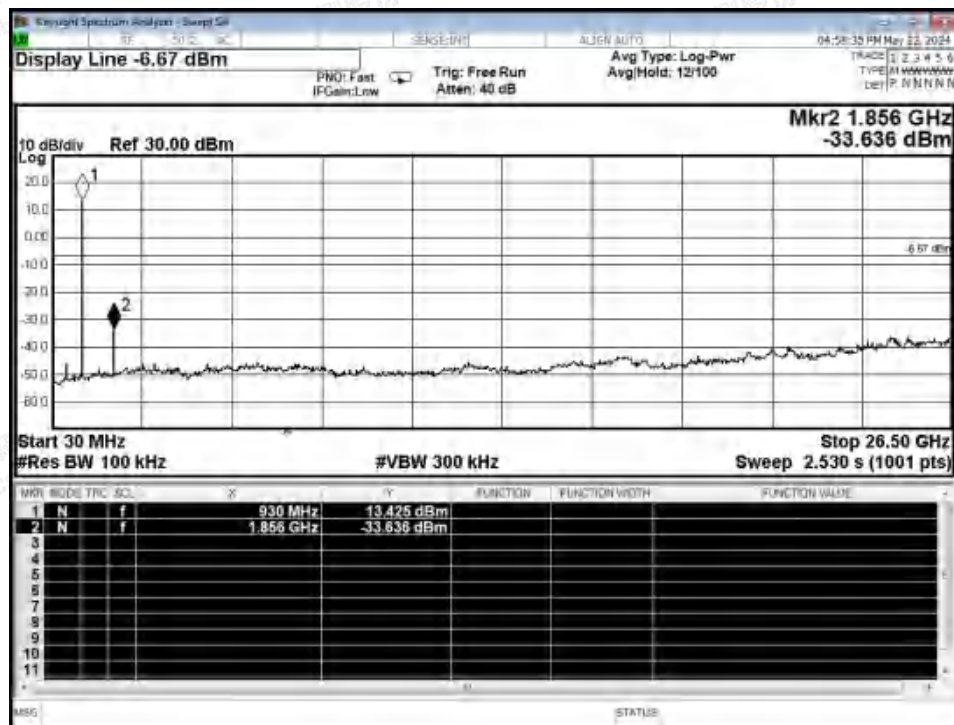
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