



Appendix A

RF Test Data for 2.4G(Conducted Measurement)

Product Name: GNSS Receiver

Test Model: LinkNav

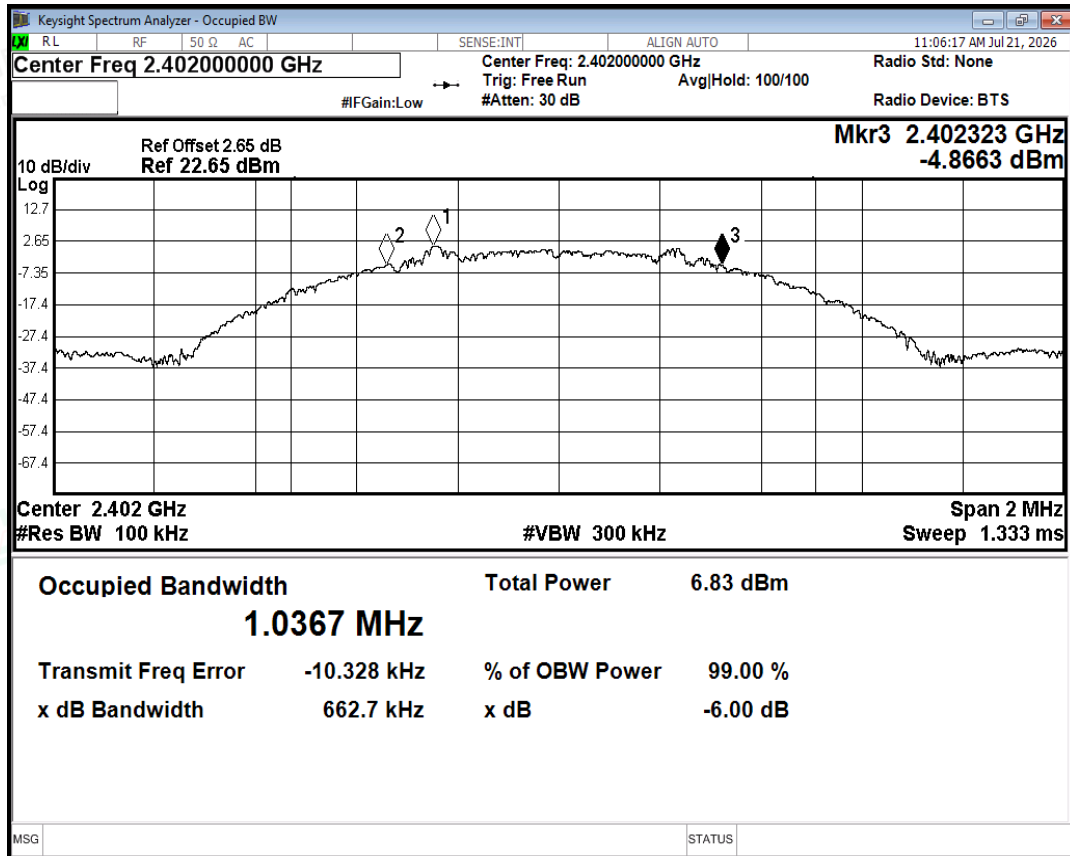
Environmental Conditions

Temperature:	22.8°C
Relative Humidity:	53.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Faith Li
Supervised by:	Can Kun

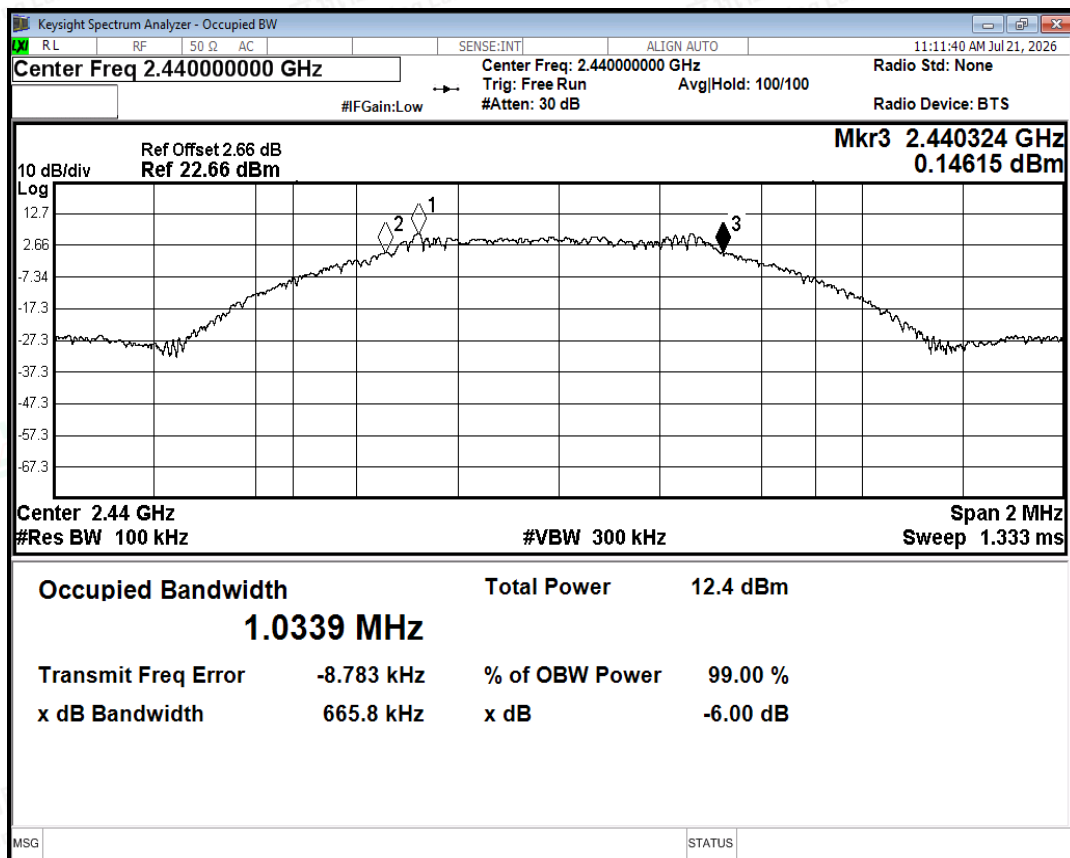


A.1 -6dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	2.4G_1M_GFSK	2402	Ant1	0.6627	0.5	Pass
NVNT	2.4G_1M_GFSK	2440	Ant1	0.6658	0.5	Pass
NVNT	2.4G_1M_GFSK	2480	Ant1	0.6943	0.5	Pass
NVNT	2.4G_1M_QPSK	2402	Ant1	1.062	0.5	Pass
NVNT	2.4G_1M_QPSK	2440	Ant1	1.083	0.5	Pass
NVNT	2.4G_1M_QPSK	2480	Ant1	1.007	0.5	Pass
NVNT	2.4G_1M_8PSK	2402	Ant1	1.014	0.5	Pass
NVNT	2.4G_1M_8PSK	2440	Ant1	1.003	0.5	Pass
NVNT	2.4G_1M_8PSK	2480	Ant1	0.992	0.5	Pass
NVNT	2.4G_2M_GFSK	2404	Ant1	1.332	0.5	Pass
NVNT	2.4G_2M_GFSK	2440	Ant1	1.277	0.5	Pass
NVNT	2.4G_2M_GFSK	2478	Ant1	1.077	0.5	Pass
NVNT	2.4G_2M_QPSK	2404	Ant1	2.022	0.5	Pass
NVNT	2.4G_2M_QPSK	2440	Ant1	2.142	0.5	Pass
NVNT	2.4G_2M_QPSK	2478	Ant1	1.882	0.5	Pass
NVNT	2.4G_2M_8PSK	2404	Ant1	1.881	0.5	Pass
NVNT	2.4G_2M_8PSK	2440	Ant1	1.813	0.5	Pass
NVNT	2.4G_2M_8PSK	2478	Ant1	1.942	0.5	Pass
NVNT	2.4G_4M_GFSK	2405	Ant1	2.582	0.5	Pass
NVNT	2.4G_4M_GFSK	2441	Ant1	1.417	0.5	Pass
NVNT	2.4G_4M_GFSK	2477	Ant1	2.441	0.5	Pass
NVNT	2.4G_4M_QPSK	2405	Ant1	3.88	0.5	Pass
NVNT	2.4G_4M_QPSK	2441	Ant1	3.726	0.5	Pass
NVNT	2.4G_4M_QPSK	2477	Ant1	4.042	0.5	Pass
NVNT	2.4G_4M_8PSK	2405	Ant1	3.835	0.5	Pass
NVNT	2.4G_4M_8PSK	2441	Ant1	4.023	0.5	Pass
NVNT	2.4G_4M_8PSK	2477	Ant1	4.068	0.5	Pass

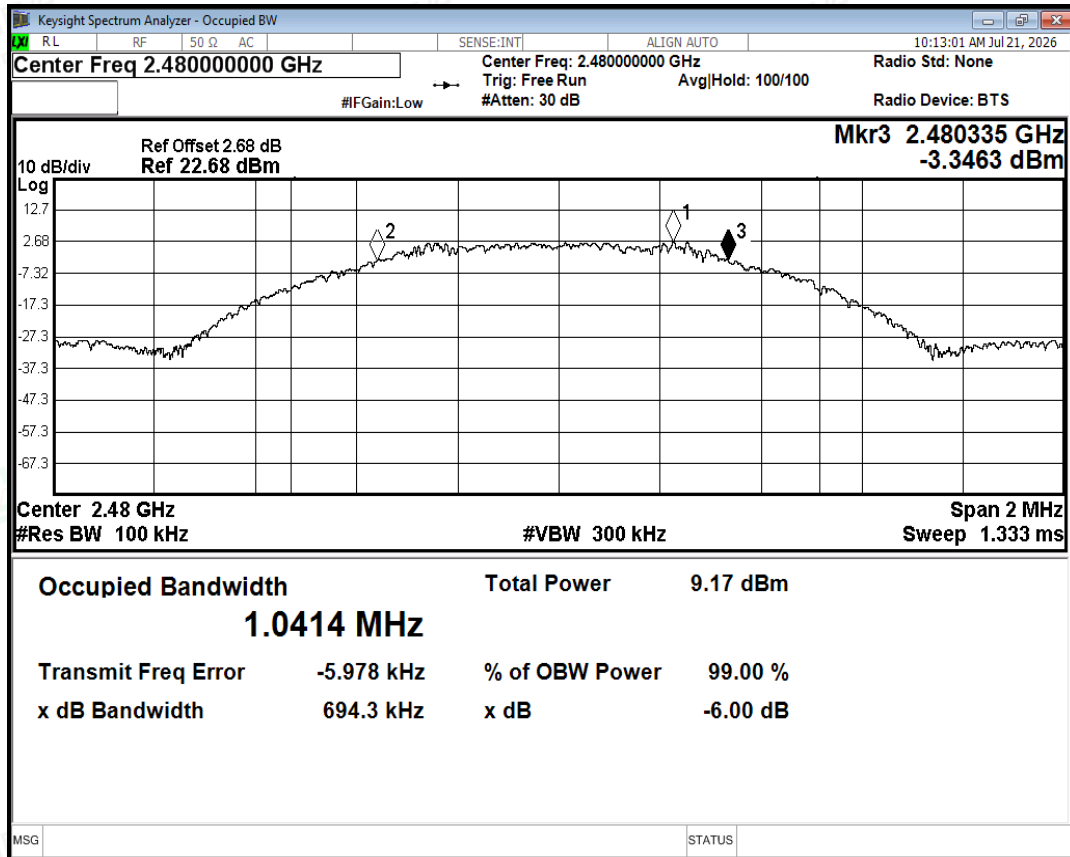


-6dB Bandwidth NVNT 2.4G_1M_GFSK 2402MHz Ant1

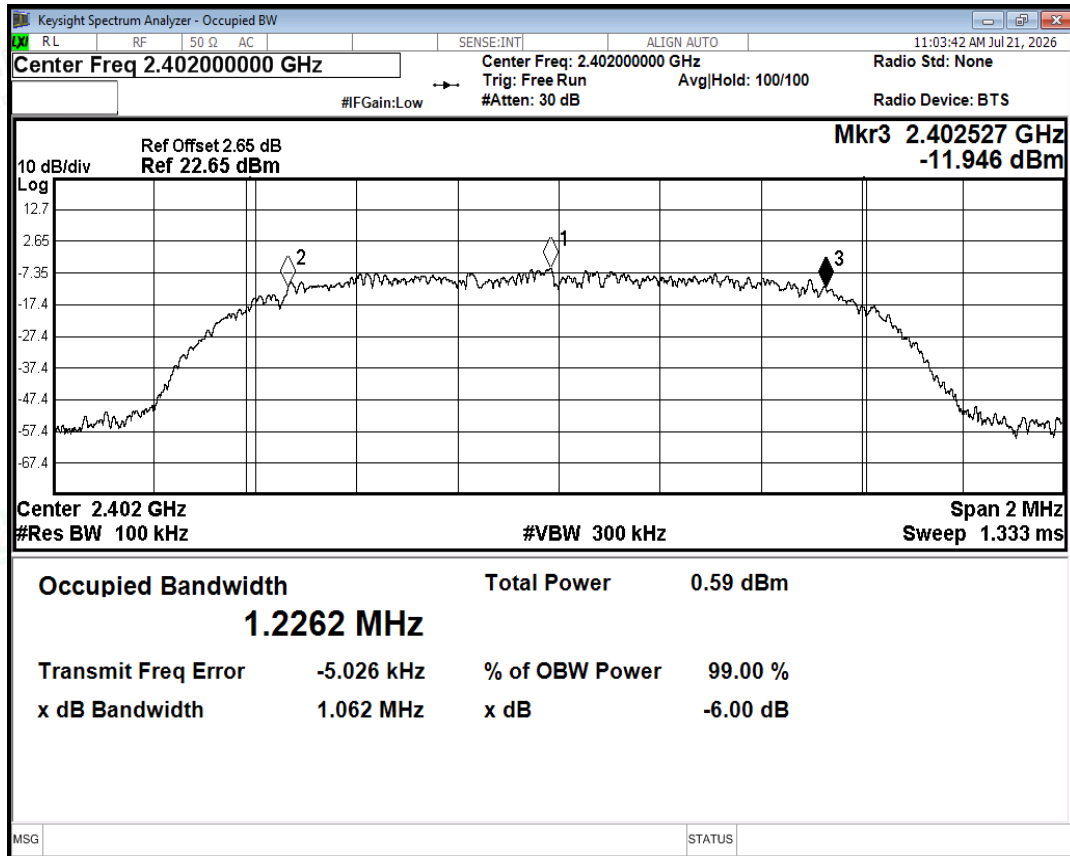




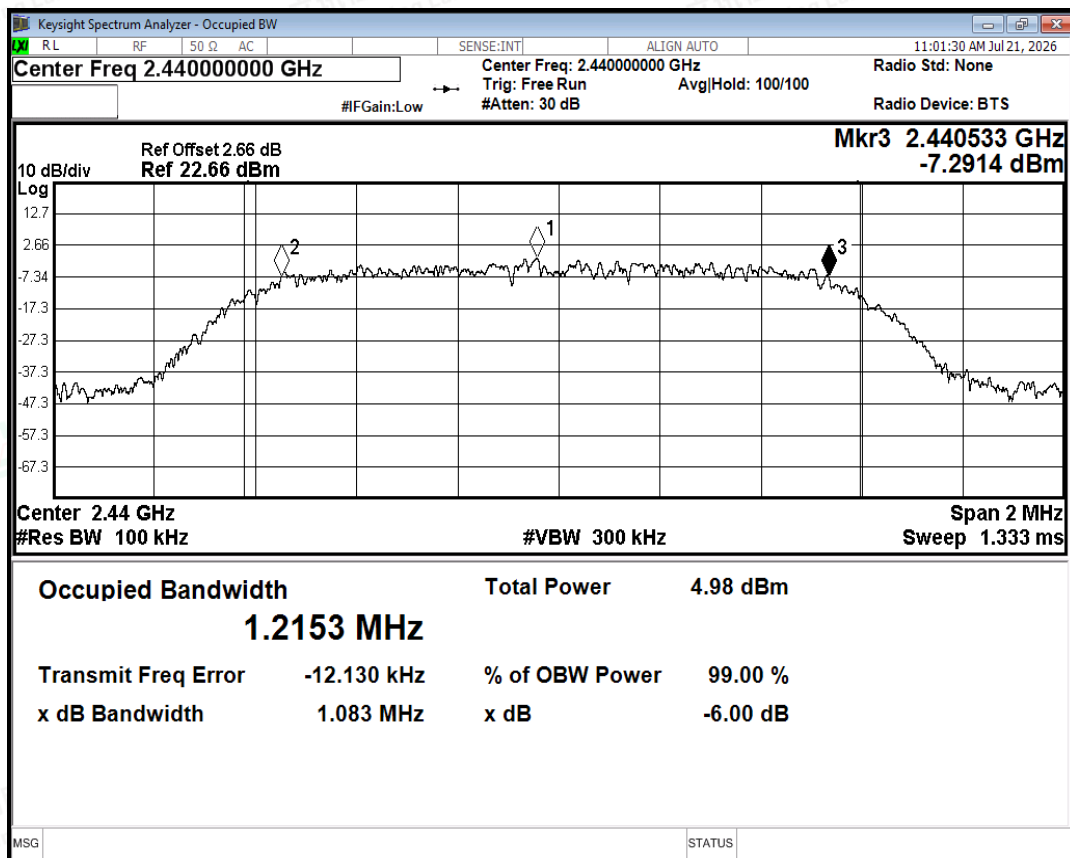
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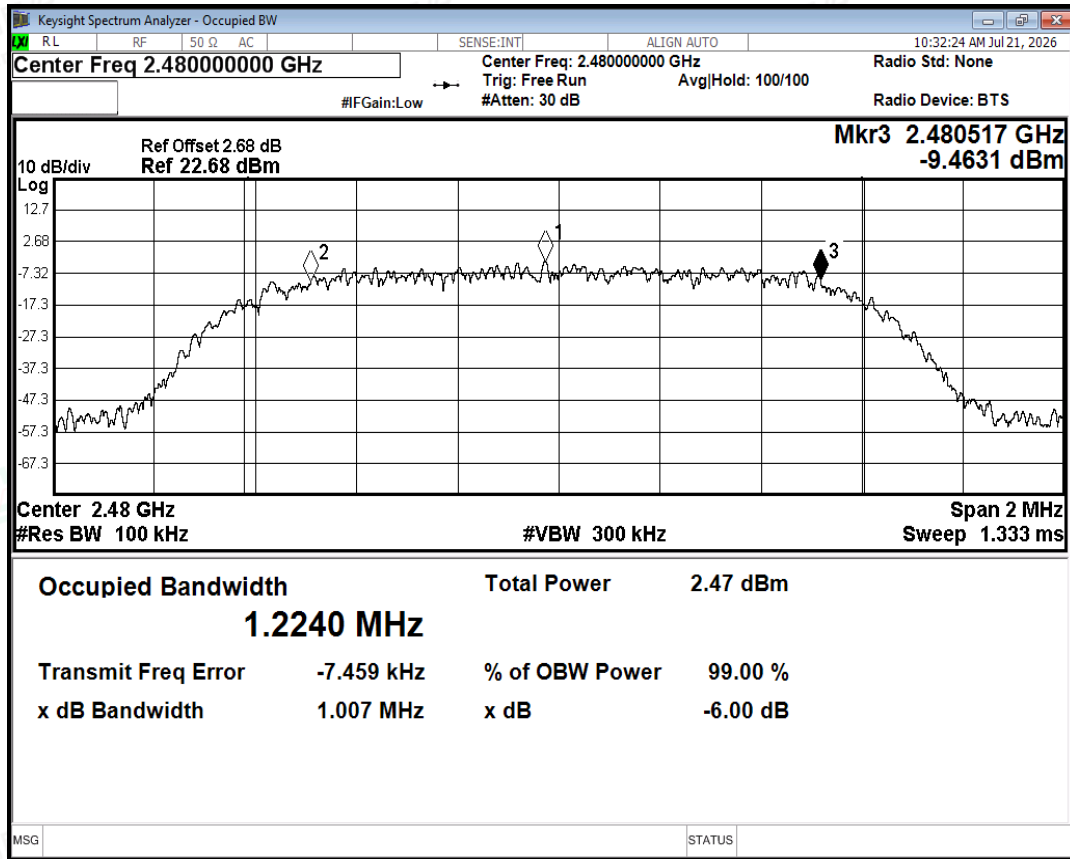


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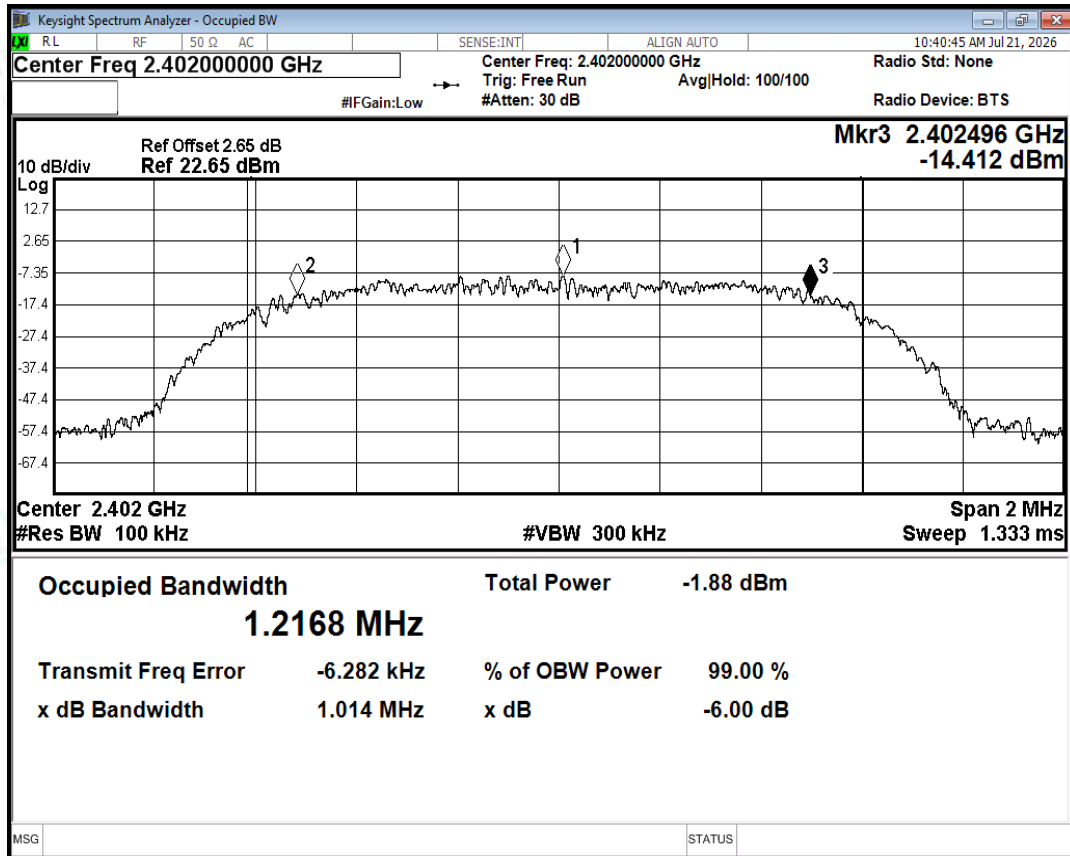




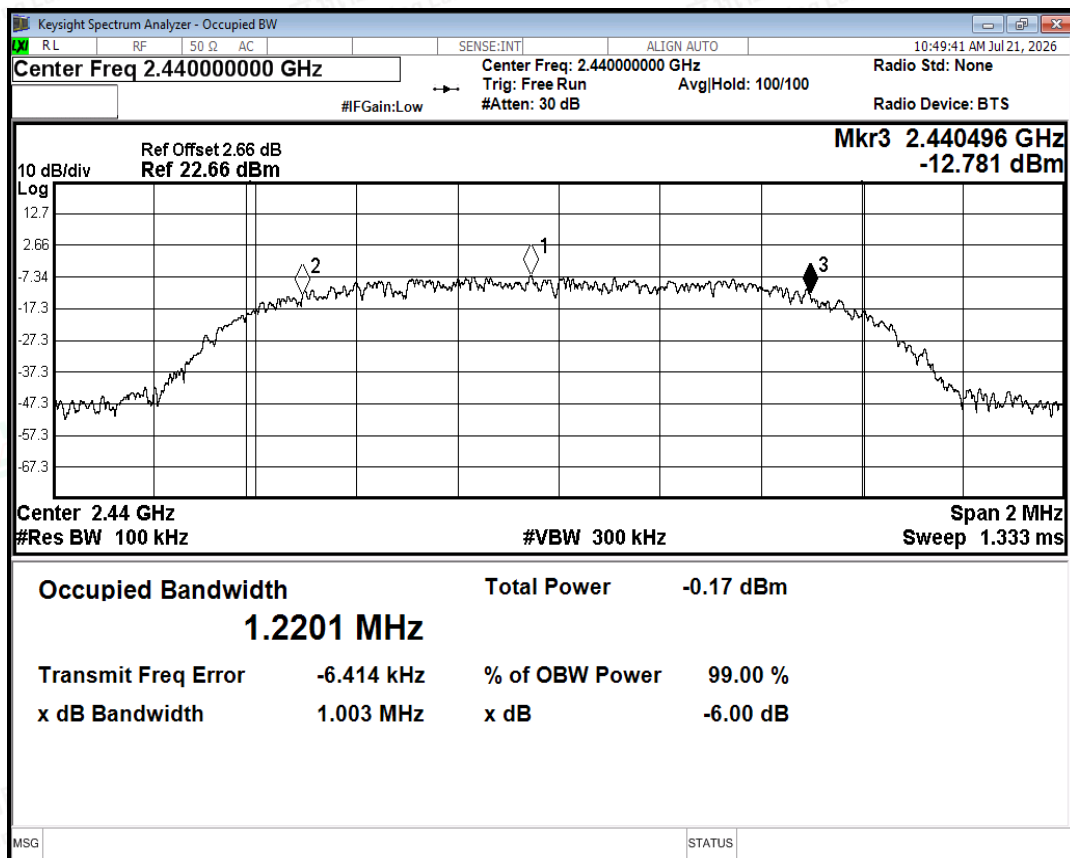
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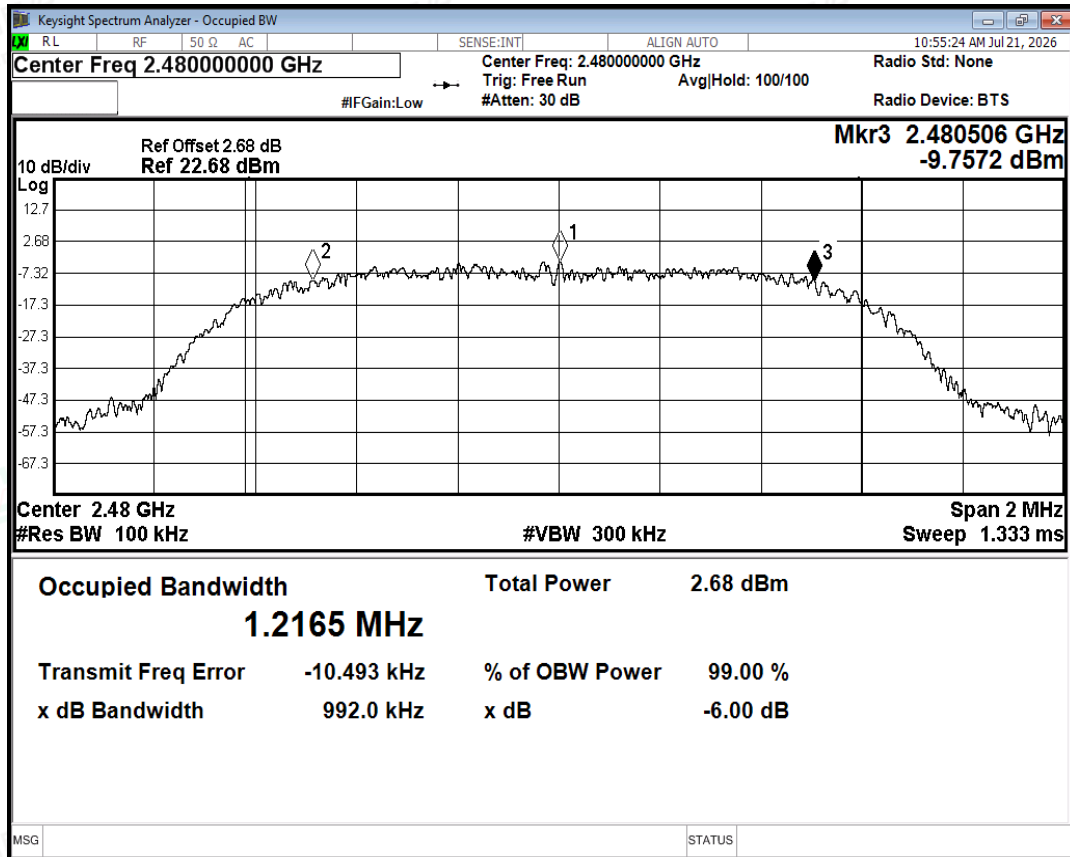


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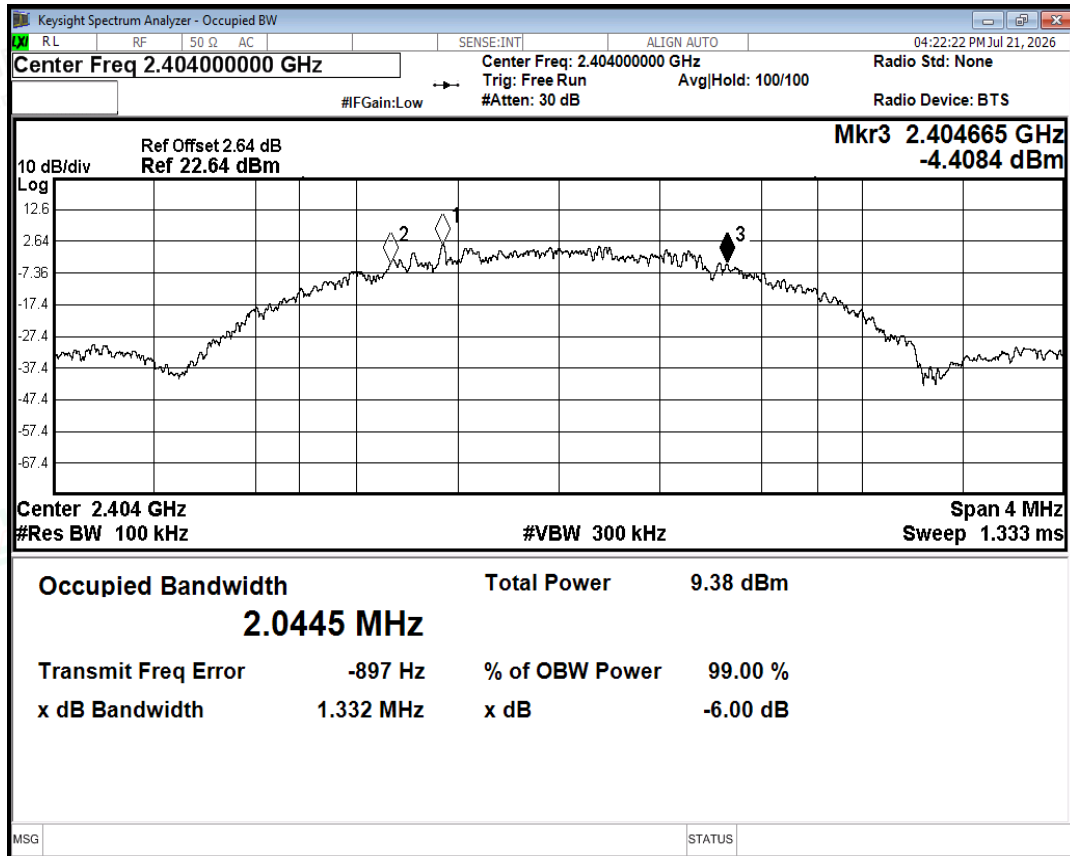




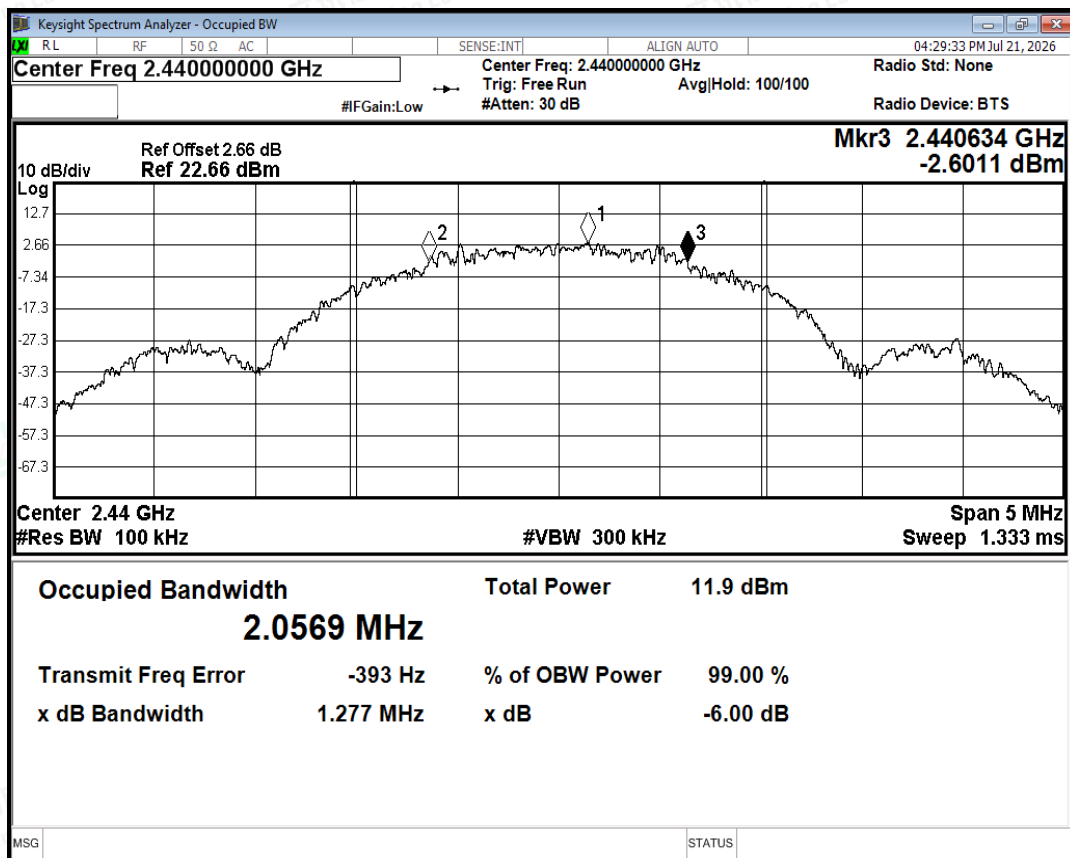
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-6dB Bandwidth NVNT 2.4G_1M_8PSK 2480MHz Ant1



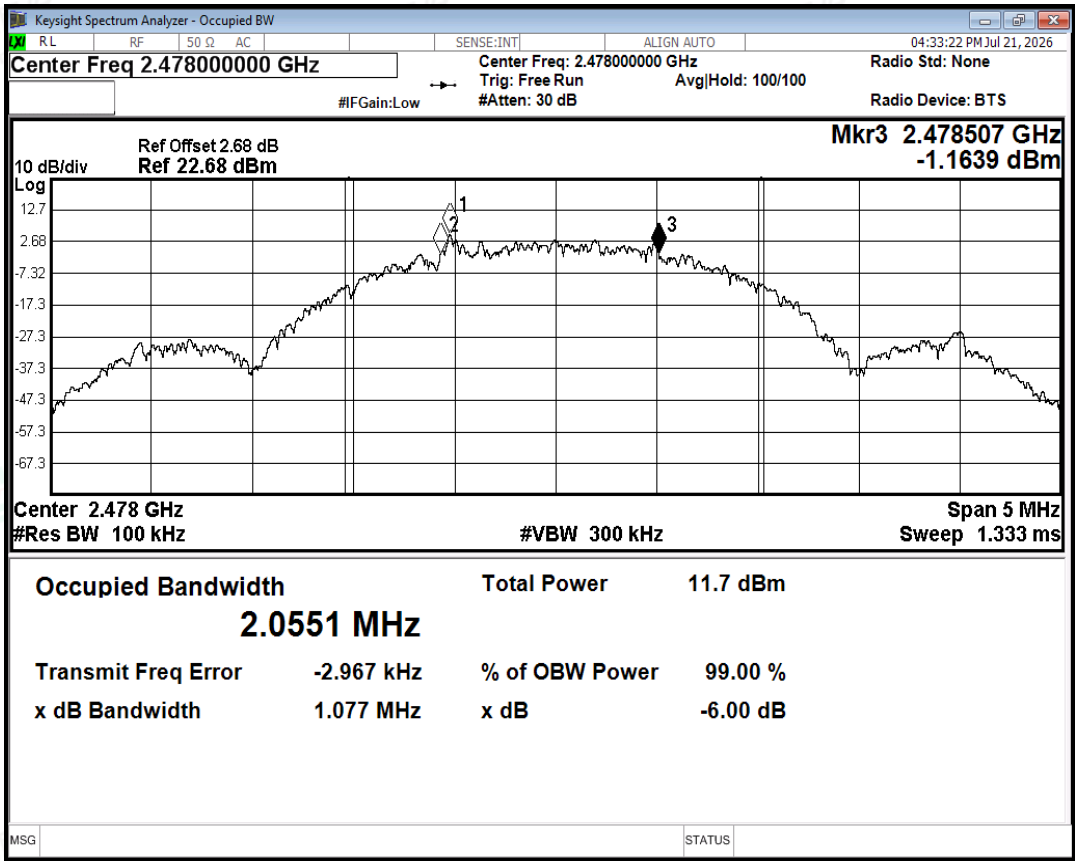
-6dB Bandwidth NVNT 2.4G_2M_GFSK 2404MHz Ant1





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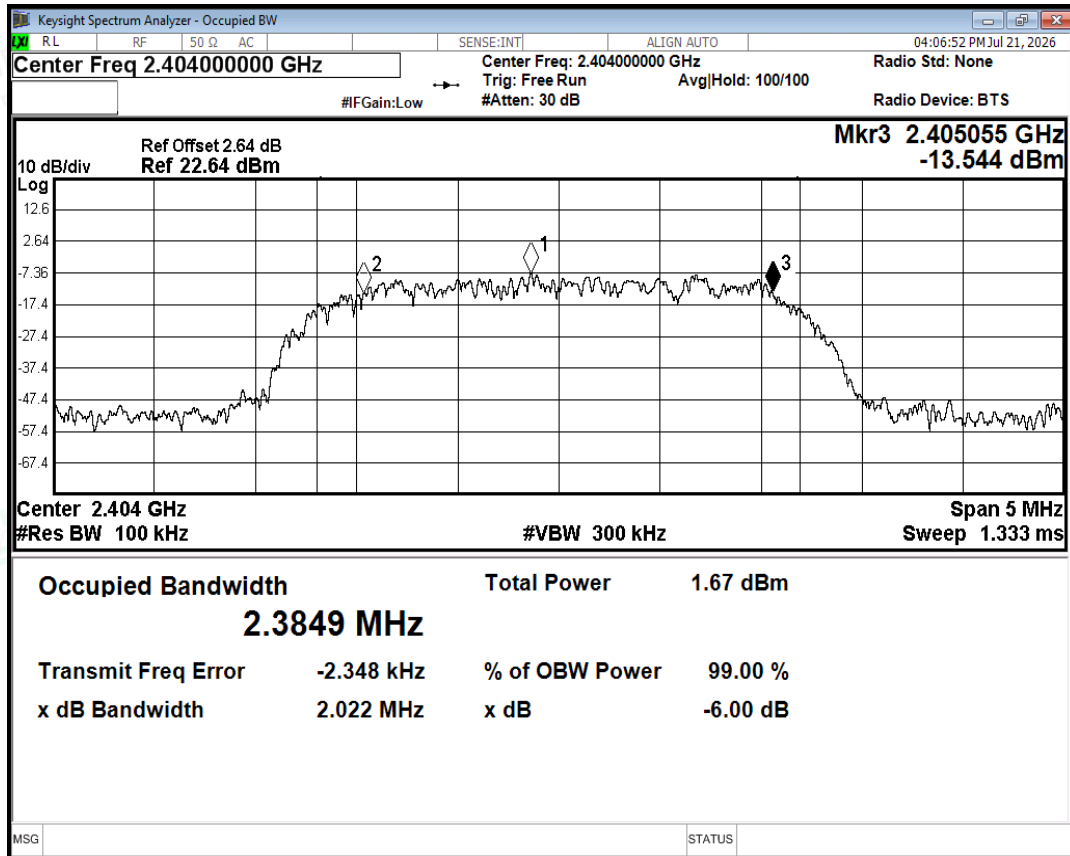
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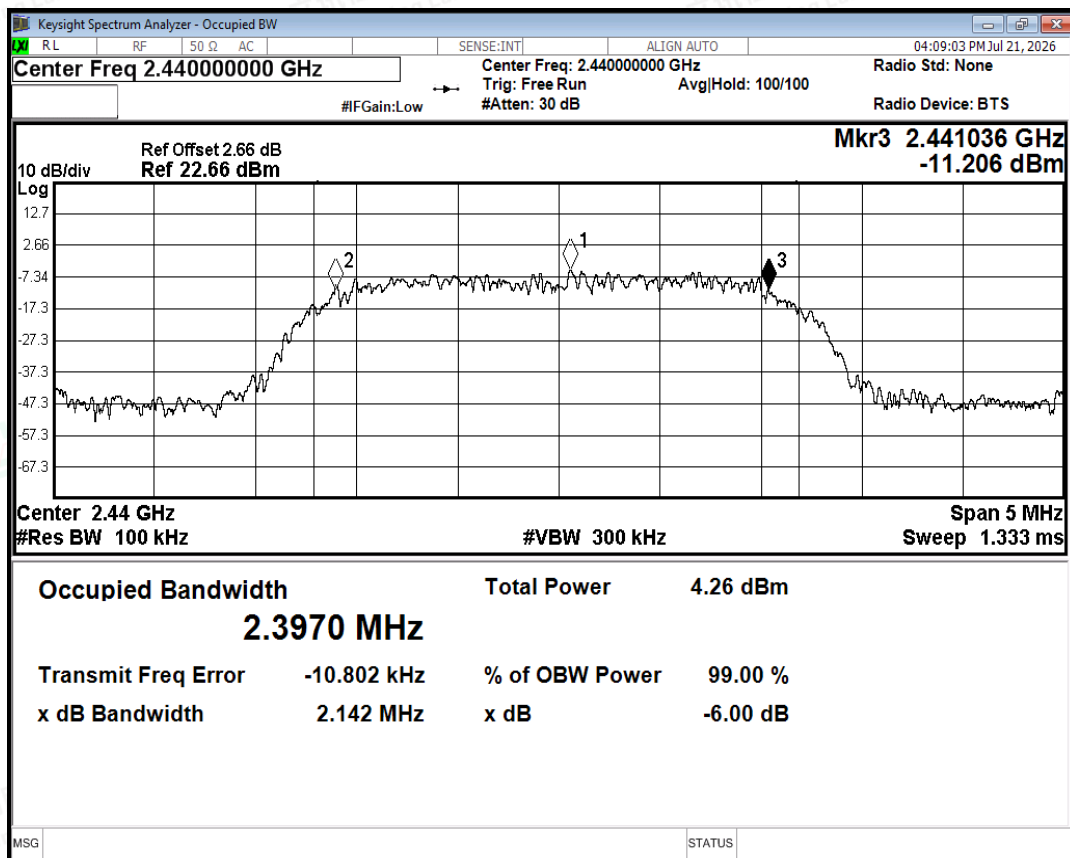
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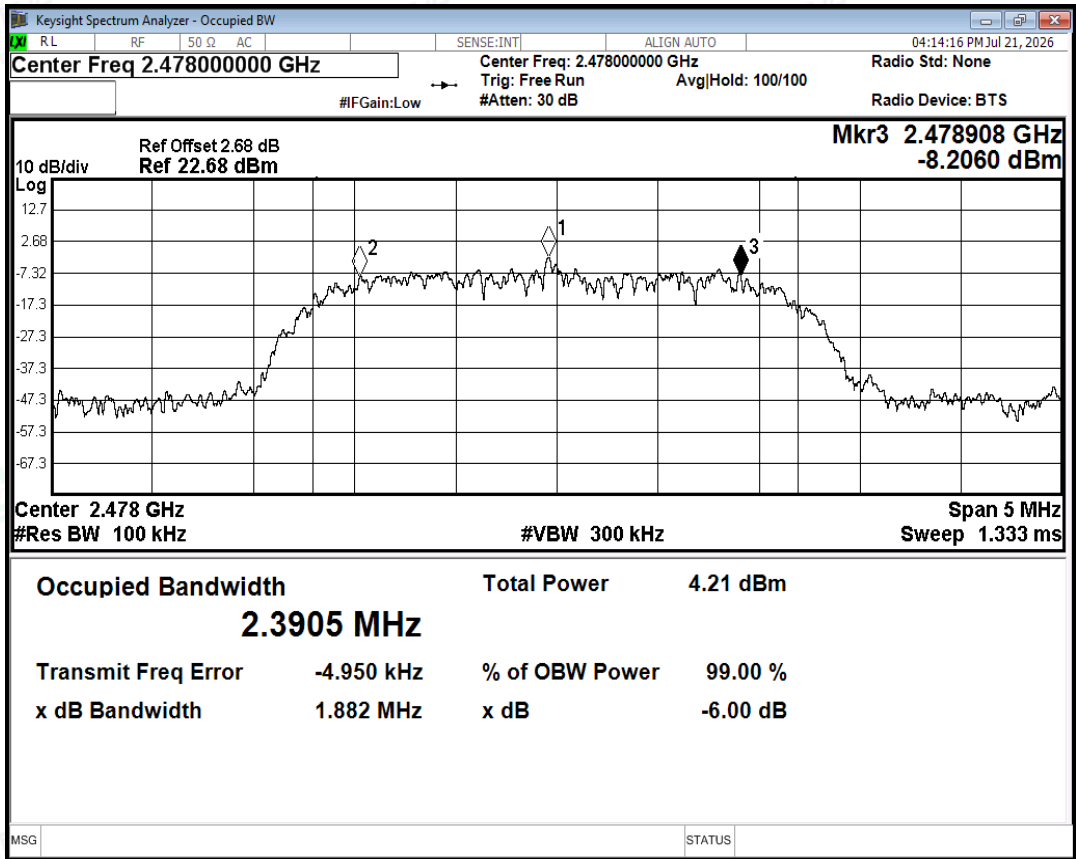
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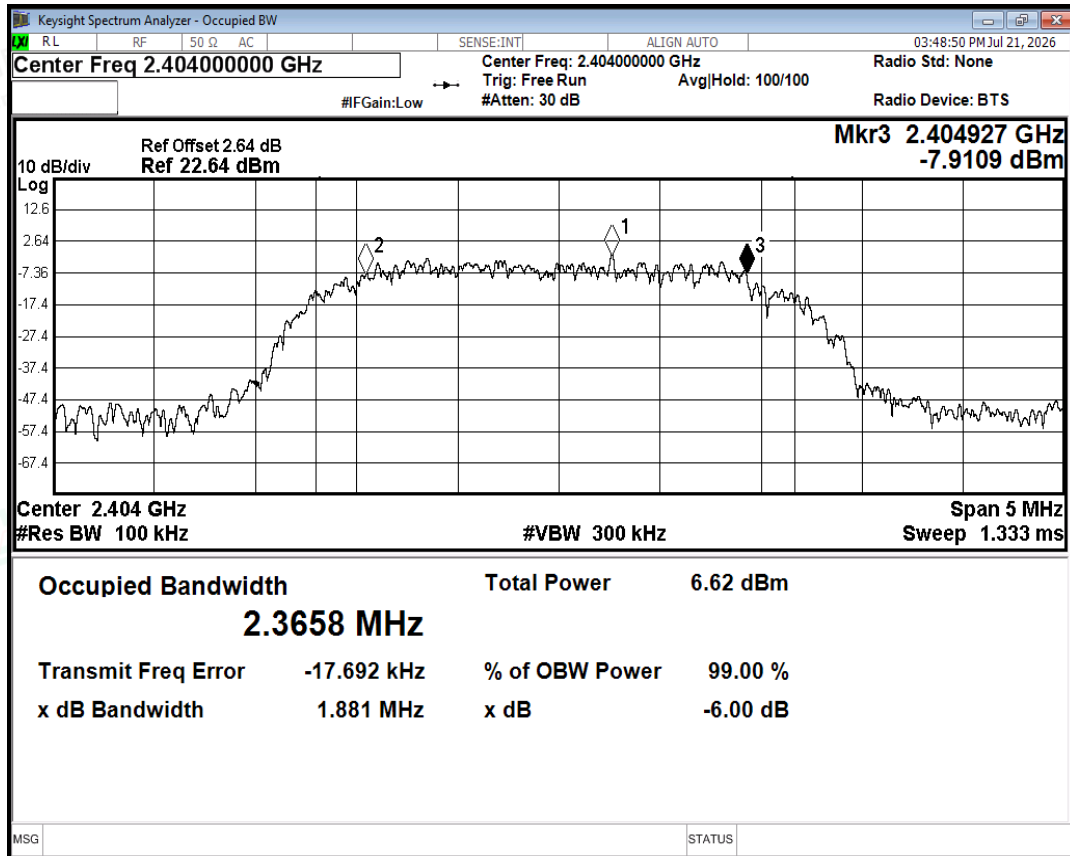
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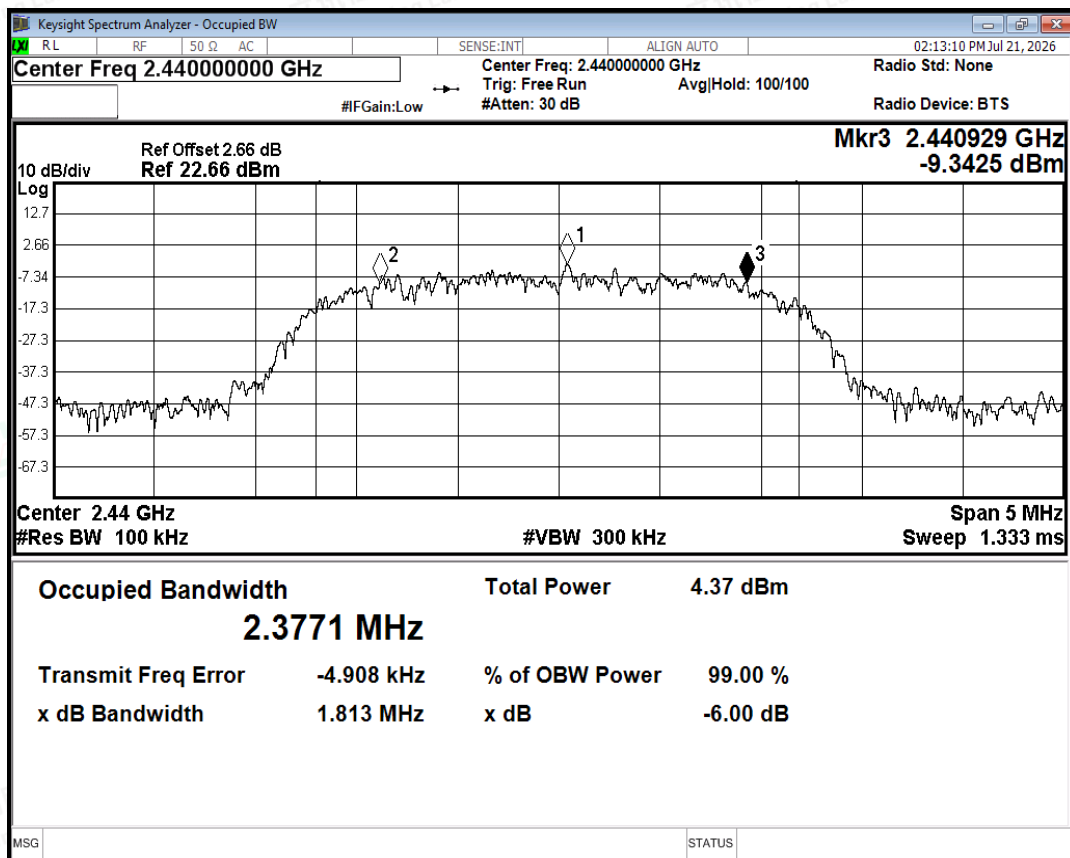
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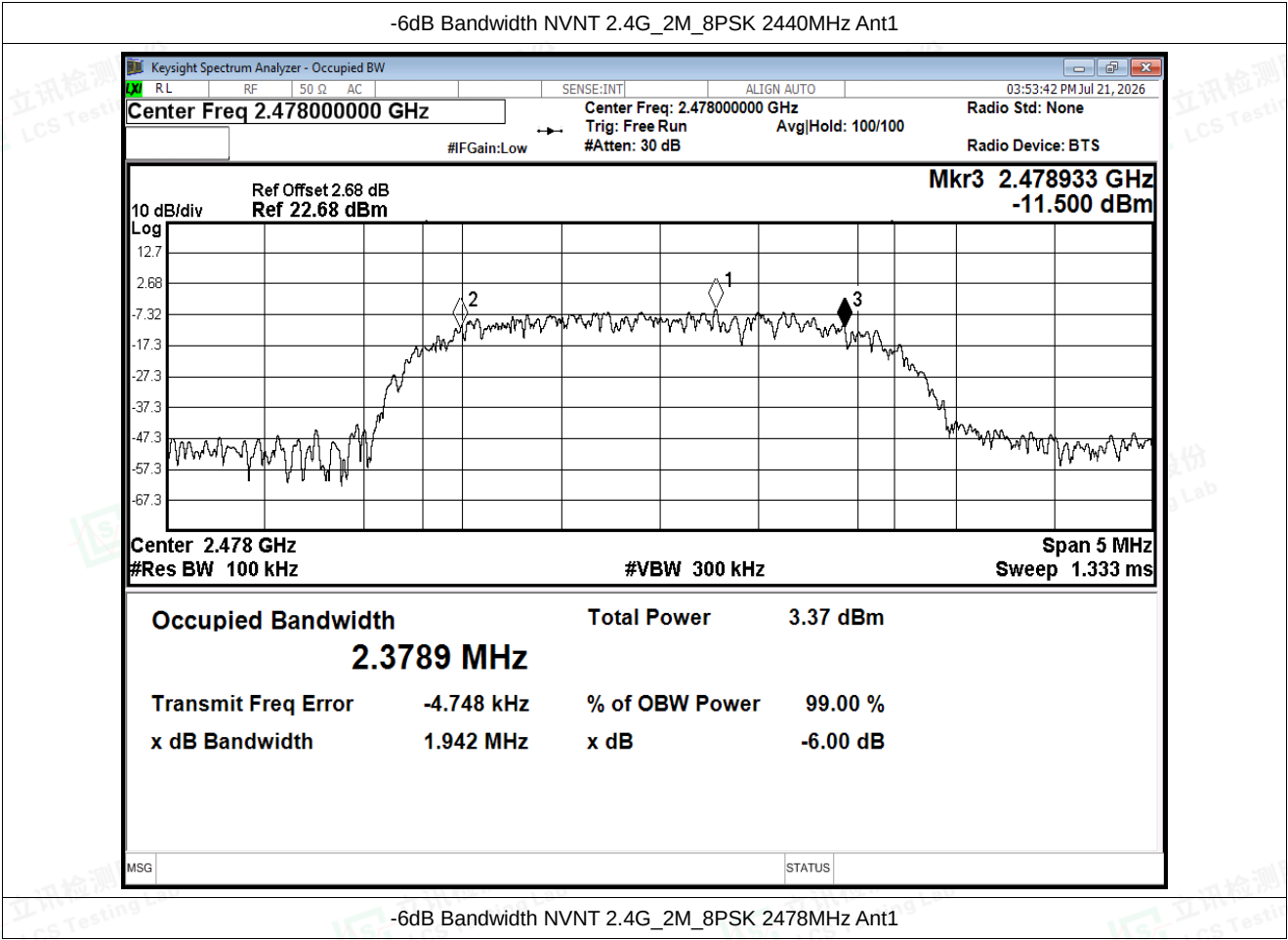


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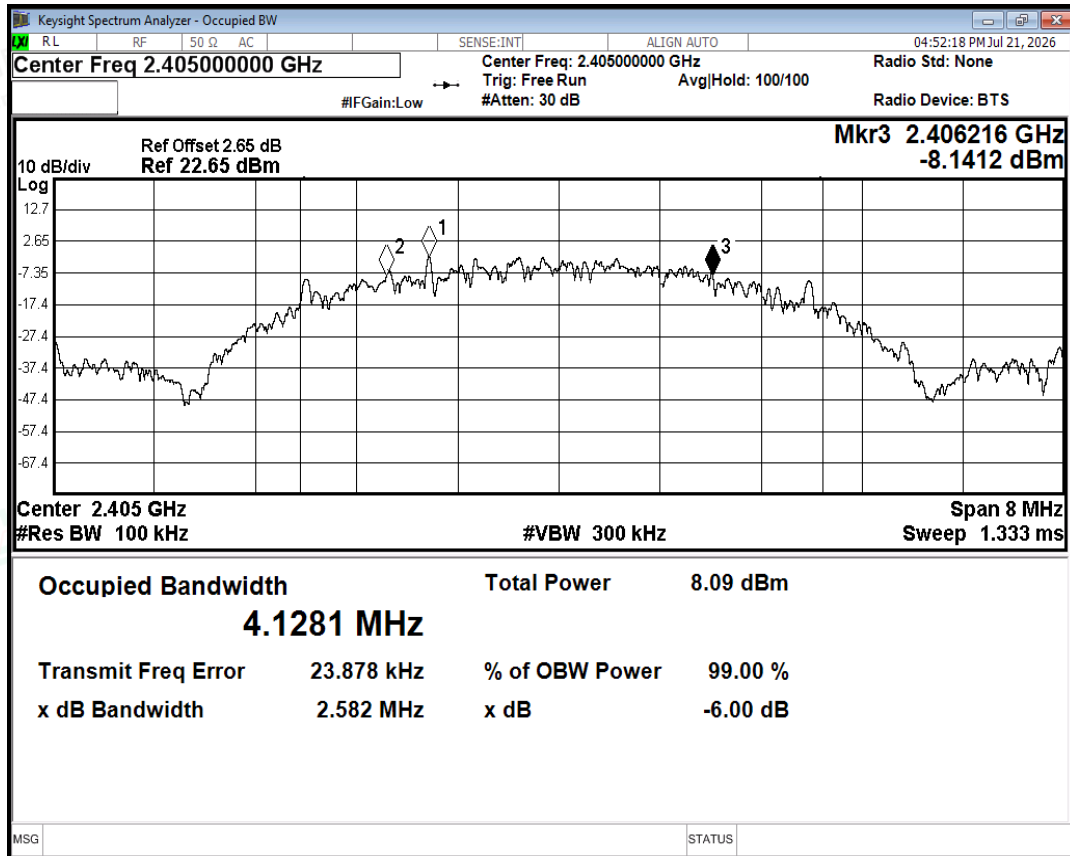


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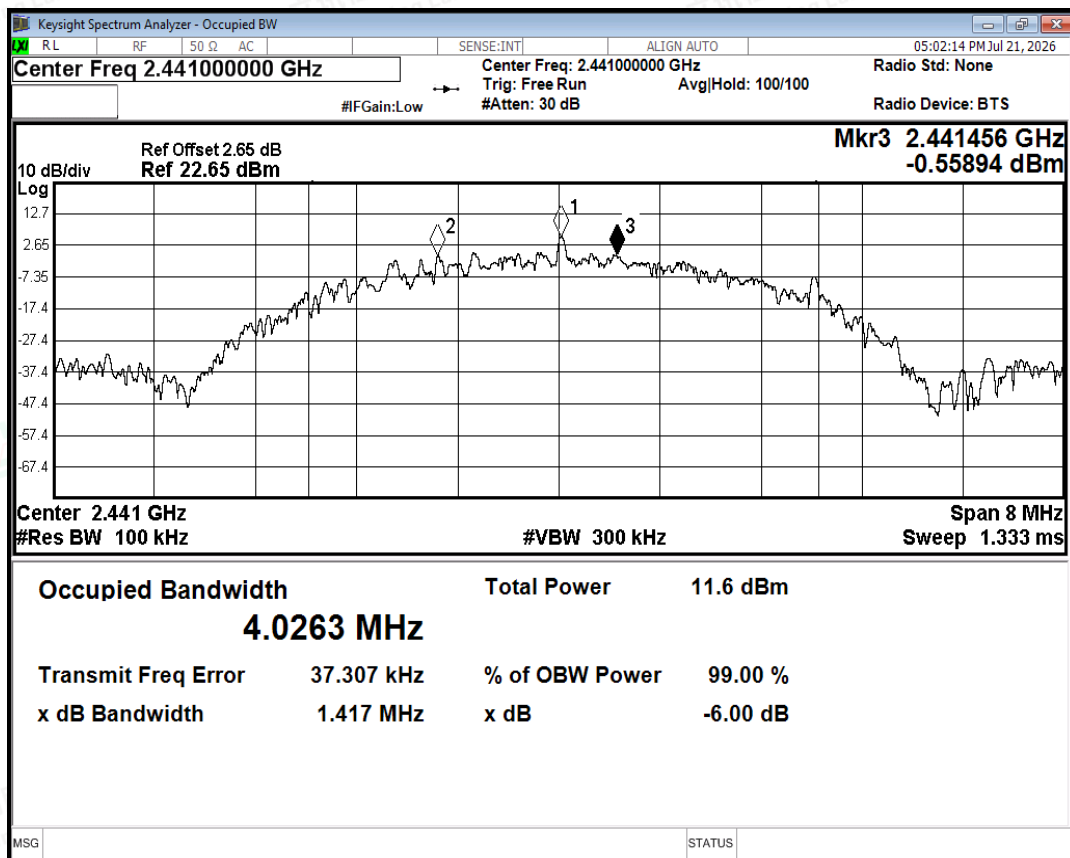




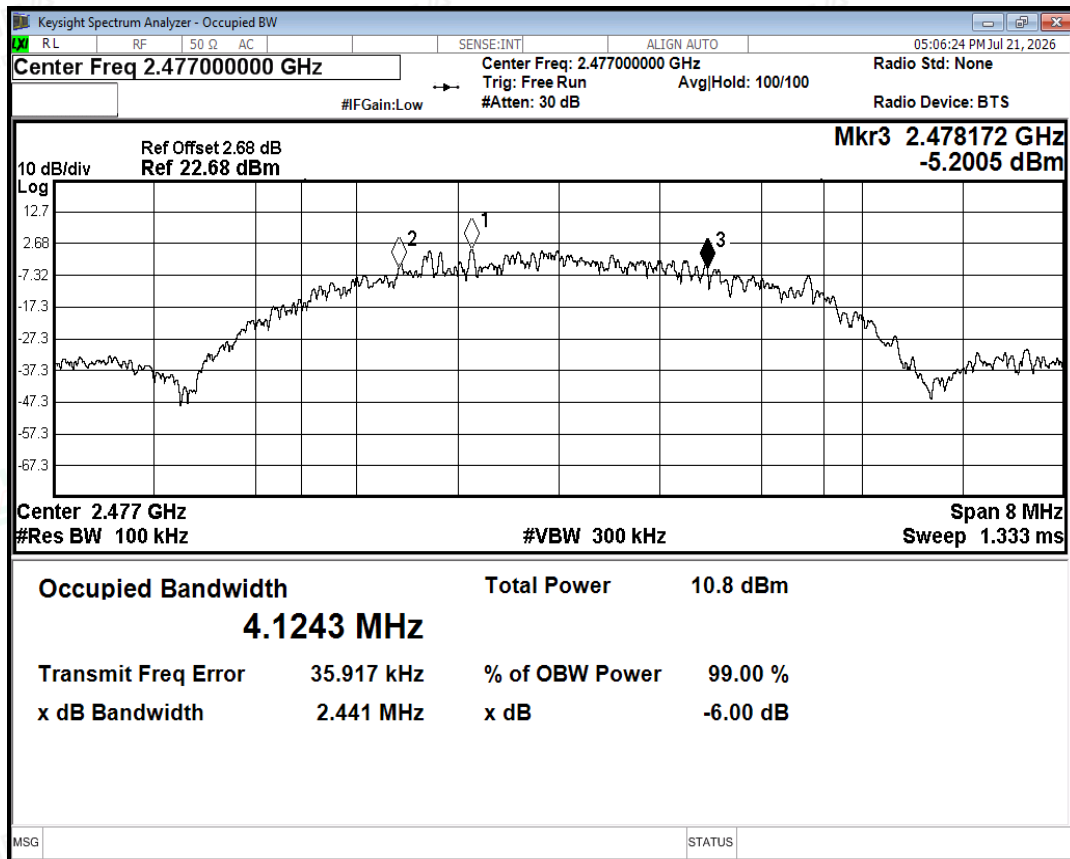
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-6dB Bandwidth NVNT 2.4G_4M_GFSK 2405MHz Ant1



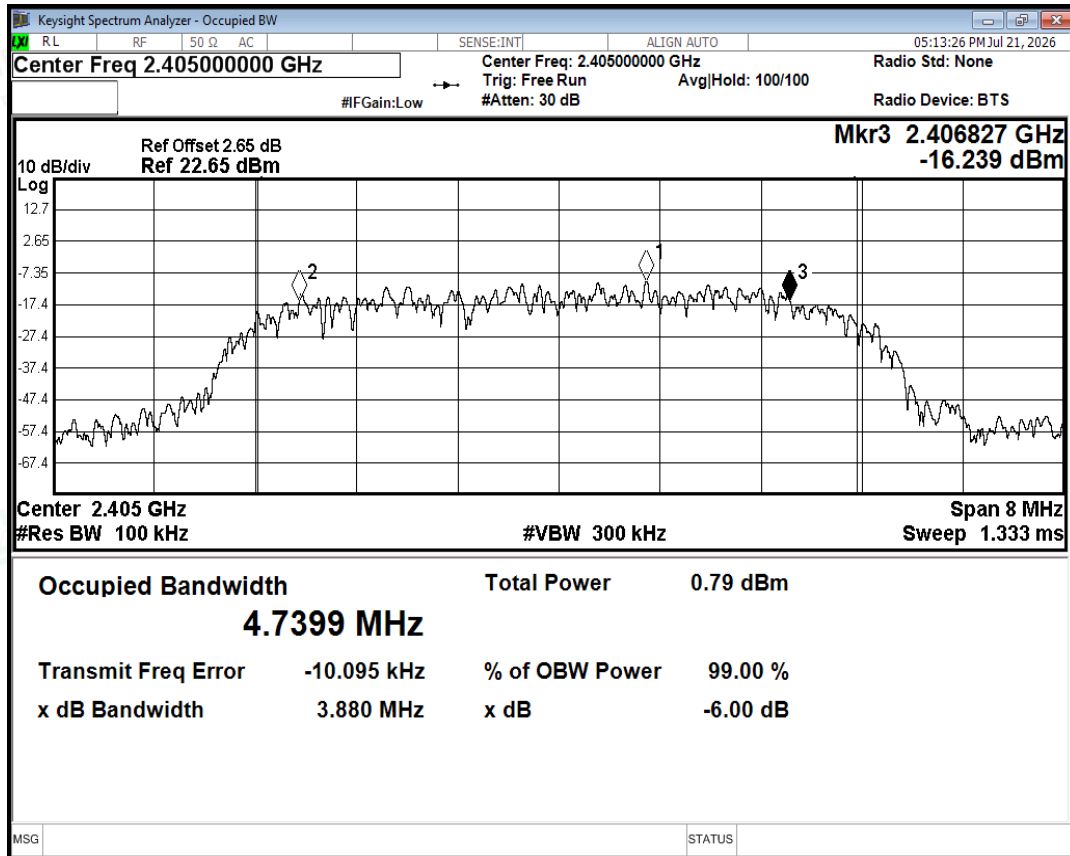
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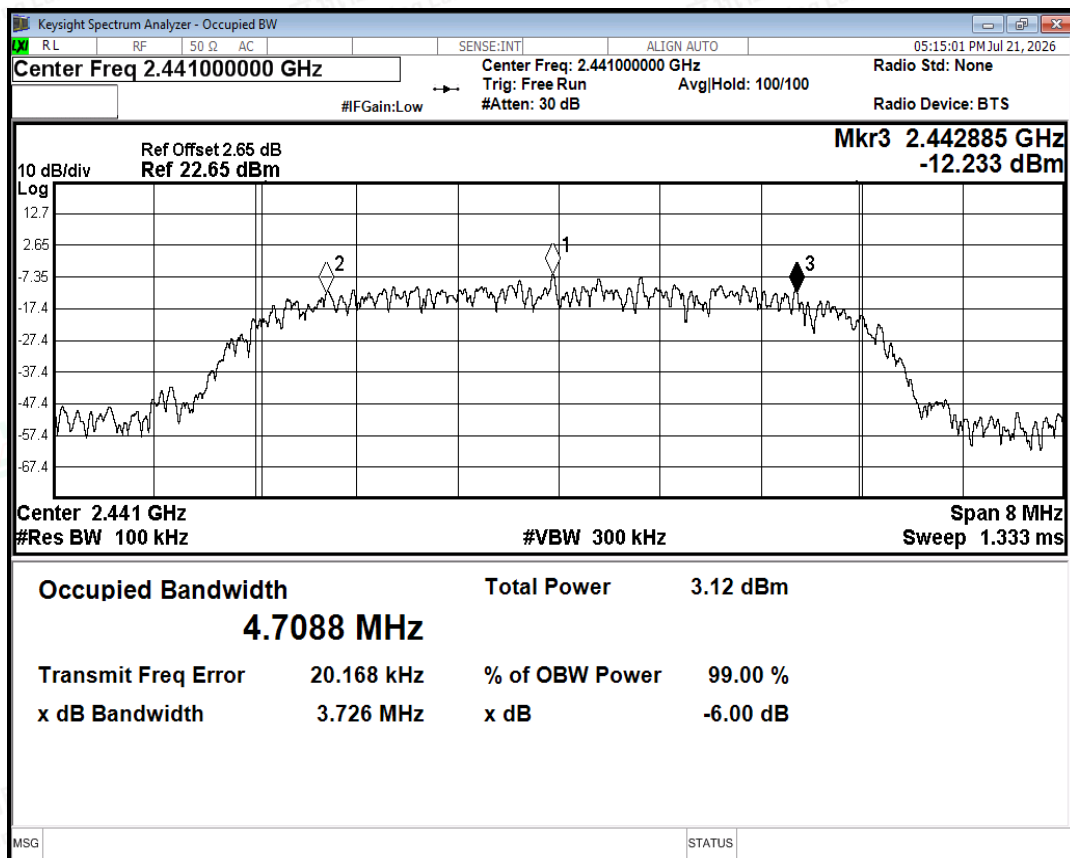
-6dB Bandwidth NVNT 2.4G_4M_GFSK 2477MHz Ant1



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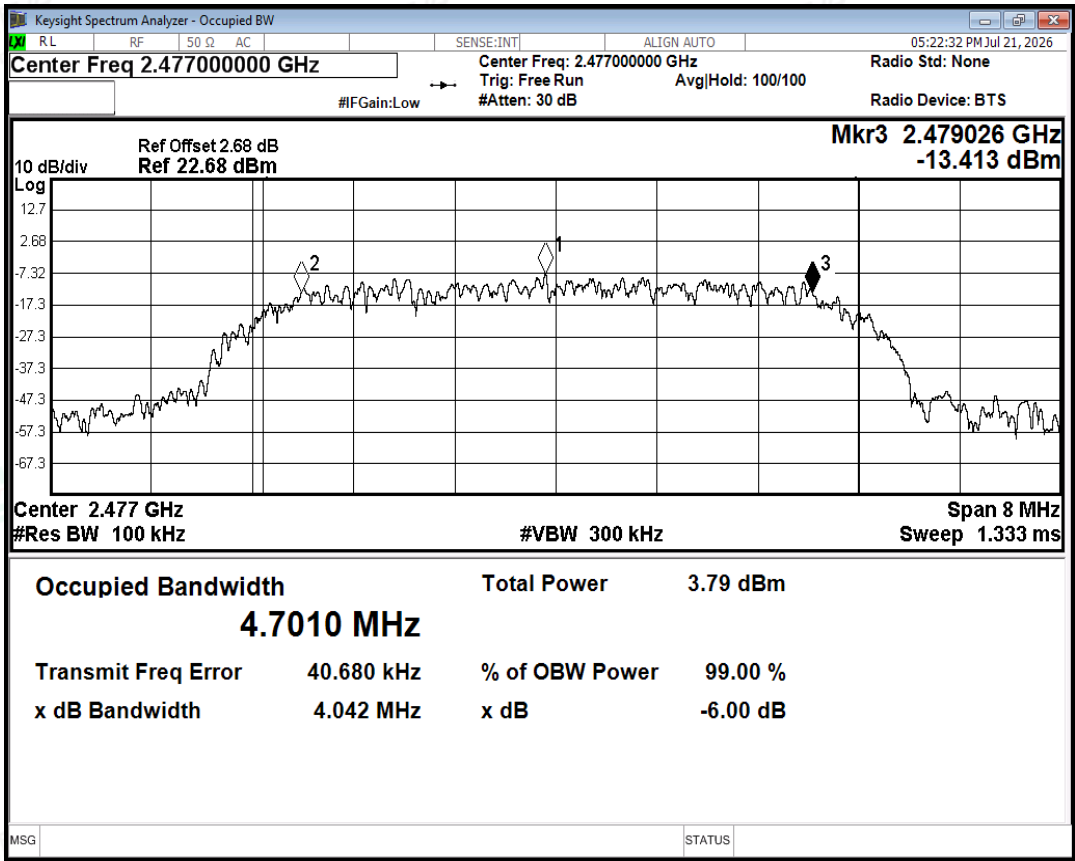
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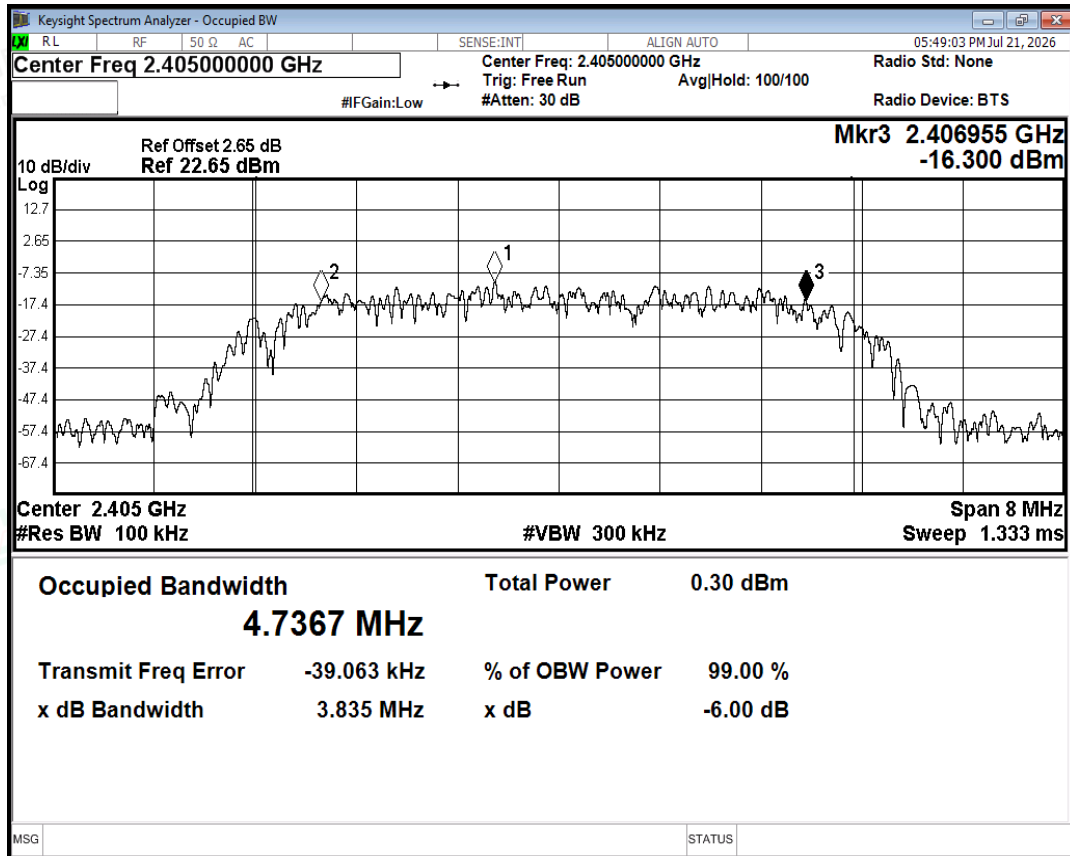
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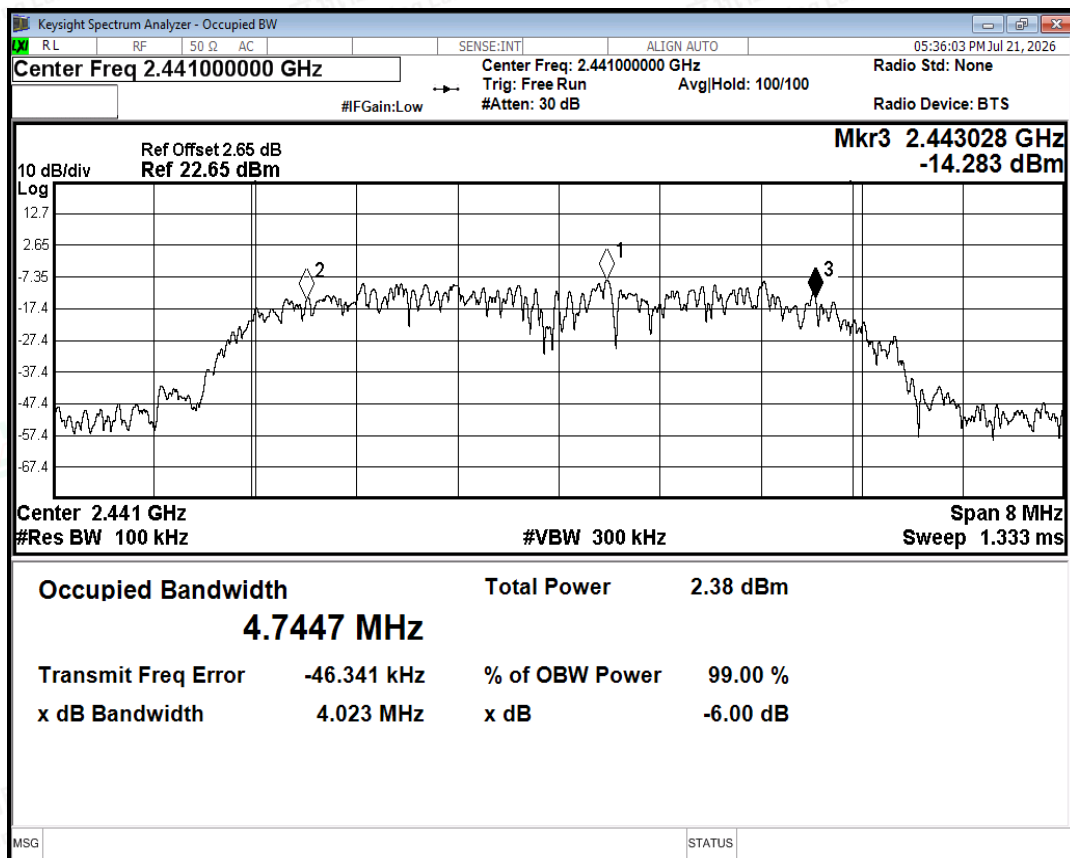
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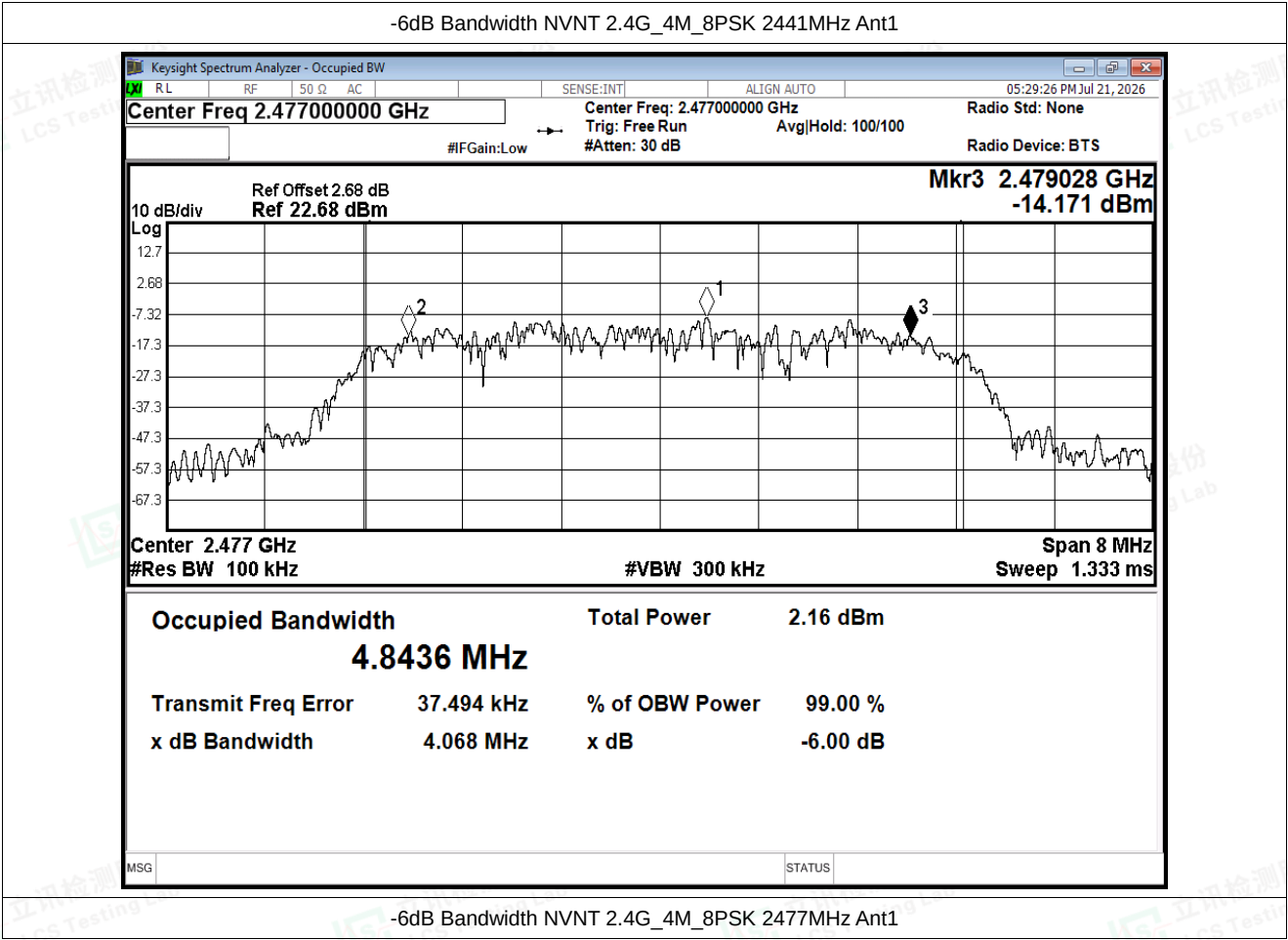


-6dB Bandwidth NVNT 2.4G_4M_8PSK 2405MHz Ant1





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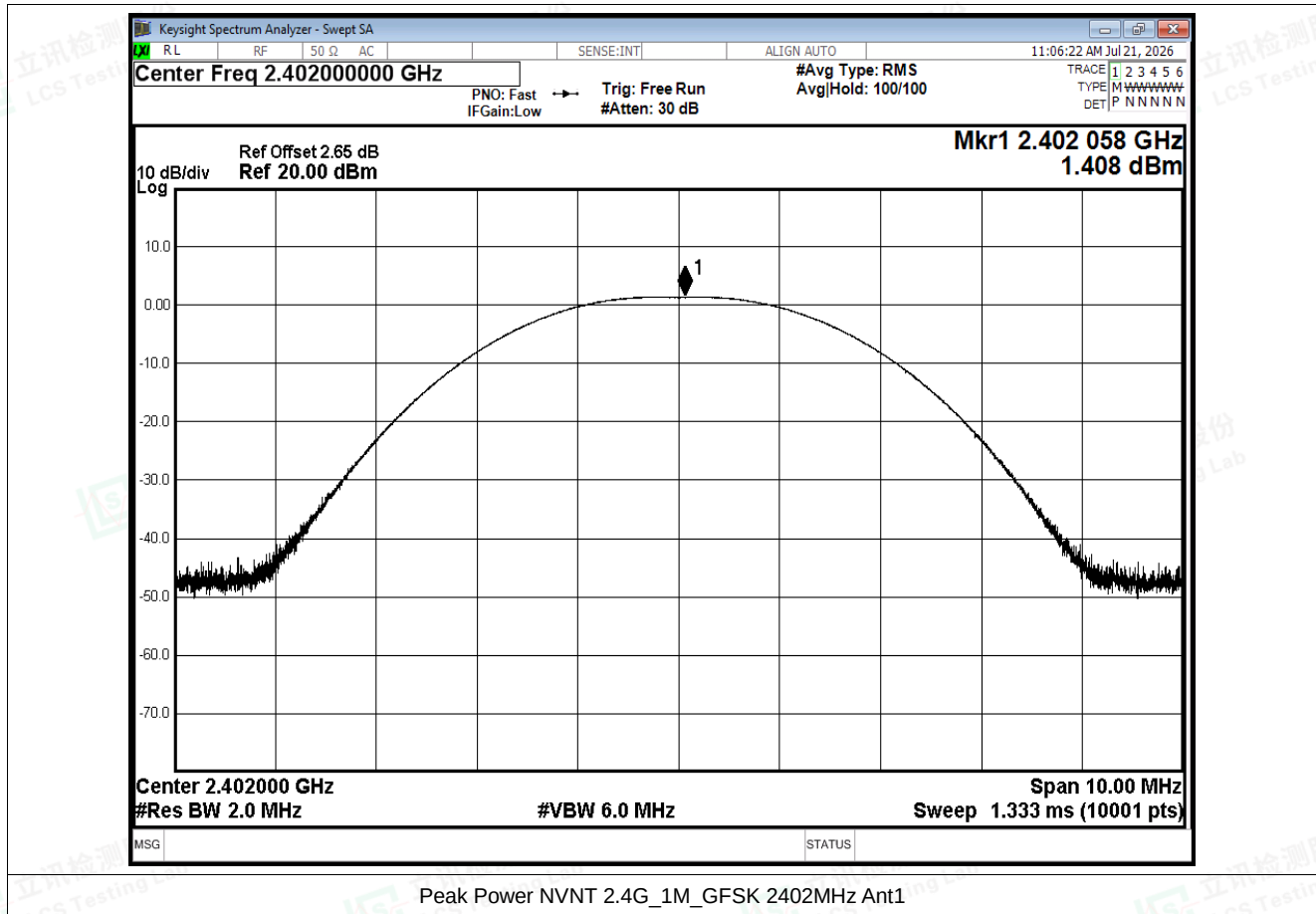


A.2 Maximum Peak Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit Conducted(dBm)	Verdict
NVNT	2.4G_1M_GFSK	2402	Ant1	1.41	30	Pass
NVNT	2.4G_1M_GFSK	2440	Ant1	1.92	30	Pass
NVNT	2.4G_1M_GFSK	2480	Ant1	3.83	30	Pass
NVNT	2.4G_1M_QPSK	2402	Ant1	-2.12	30	Pass
NVNT	2.4G_1M_QPSK	2440	Ant1	3.04	30	Pass
NVNT	2.4G_1M_QPSK	2480	Ant1	0.43	30	Pass
NVNT	2.4G_1M_8PSK	2402	Ant1	-3.53	30	Pass
NVNT	2.4G_1M_8PSK	2440	Ant1	-1.36	30	Pass
NVNT	2.4G_1M_8PSK	2480	Ant1	0.81	30	Pass
NVNT	2.4G_2M_GFSK	2404	Ant1	4.19	30	Pass
NVNT	2.4G_2M_GFSK	2440	Ant1	6.62	30	Pass
NVNT	2.4G_2M_GFSK	2478	Ant1	6.61	30	Pass
NVNT	2.4G_2M_QPSK	2404	Ant1	-0.1	30	Pass
NVNT	2.4G_2M_QPSK	2440	Ant1	2.27	30	Pass
NVNT	2.4G_2M_QPSK	2478	Ant1	2.27	30	Pass
NVNT	2.4G_2M_8PSK	2404	Ant1	0.4	30	Pass
NVNT	2.4G_2M_8PSK	2440	Ant1	3.02	30	Pass
NVNT	2.4G_2M_8PSK	2478	Ant1	2.44	30	Pass
NVNT	2.4G_4M_GFSK	2405	Ant1	4.14	30	Pass
NVNT	2.4G_4M_GFSK	2441	Ant1	6.65	30	Pass
NVNT	2.4G_4M_GFSK	2477	Ant1	6.61	30	Pass
NVNT	2.4G_4M_QPSK	2405	Ant1	-1.77	30	Pass
NVNT	2.4G_4M_QPSK	2441	Ant1	0.61	30	Pass
NVNT	2.4G_4M_QPSK	2477	Ant1	0.62	30	Pass
NVNT	2.4G_4M_8PSK	2405	Ant1	-1.68	30	Pass
NVNT	2.4G_4M_8PSK	2441	Ant1	0.69	30	Pass
NVNT	2.4G_4M_8PSK	2477	Ant1	0.74	30	Pass

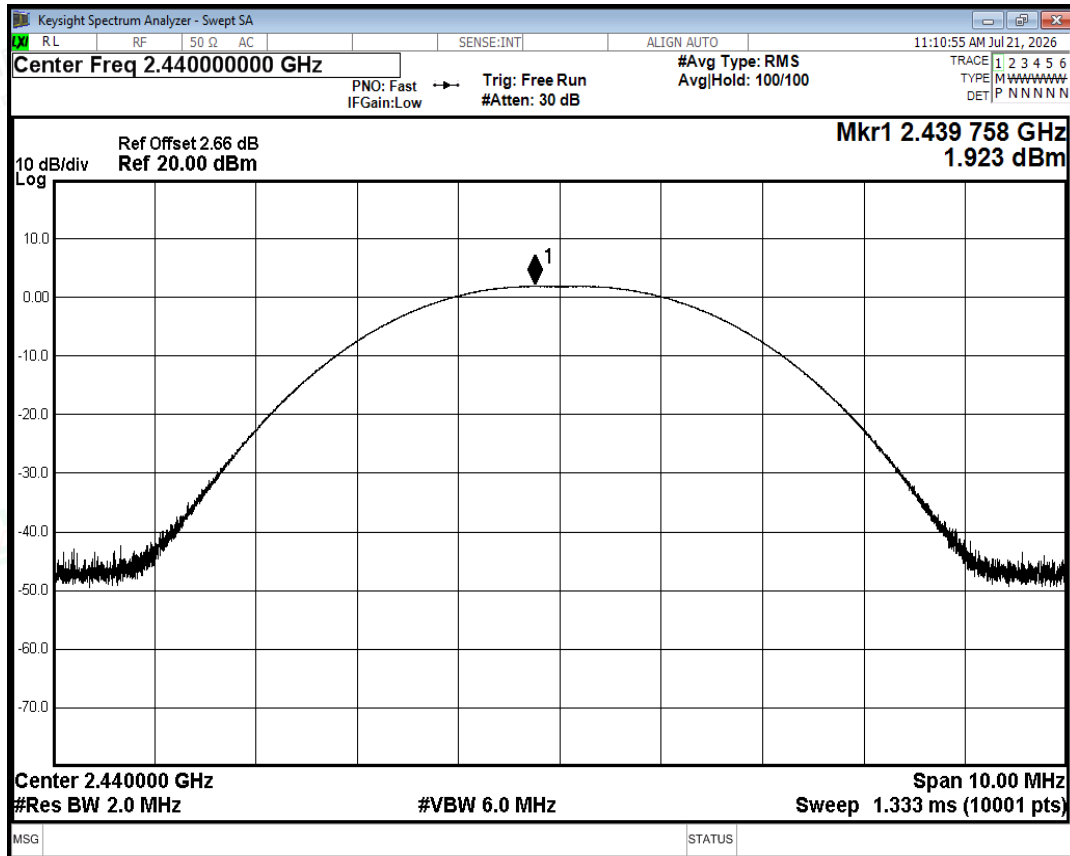


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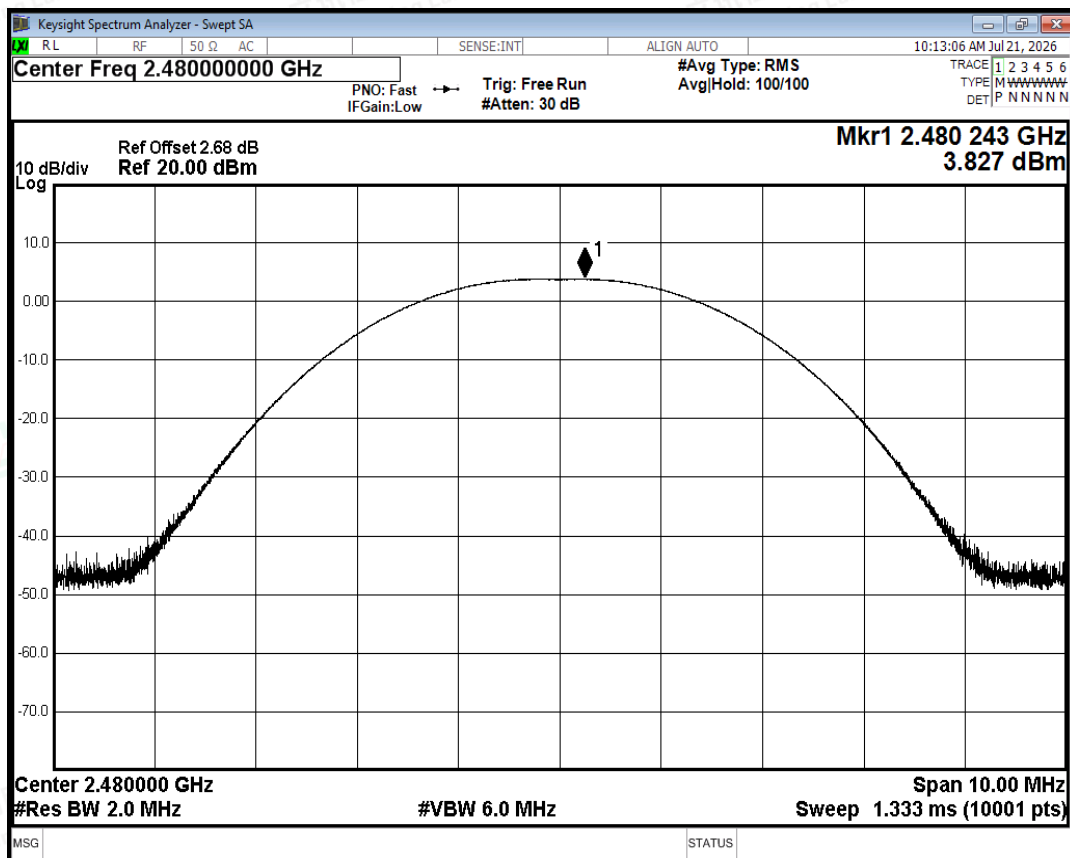




LCS-206016EA



Peak Power NVNT 2.4G_1M_GFSK 2440MHz Ant1

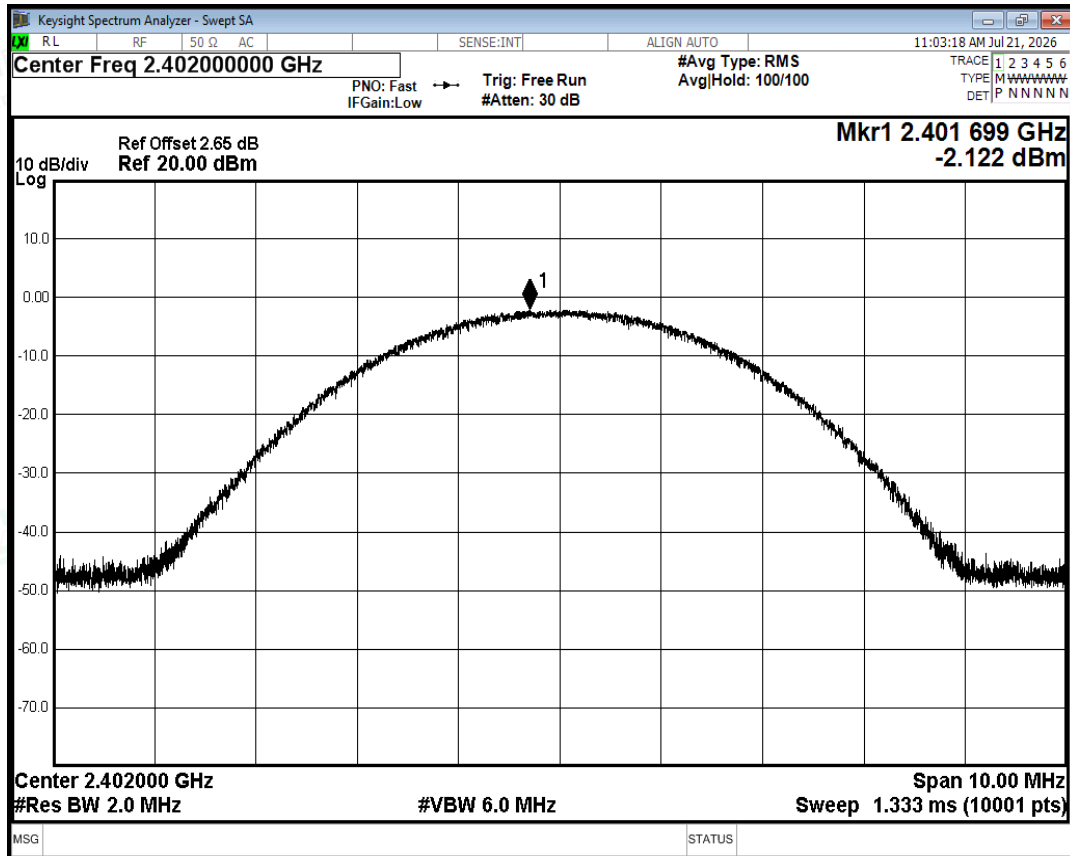




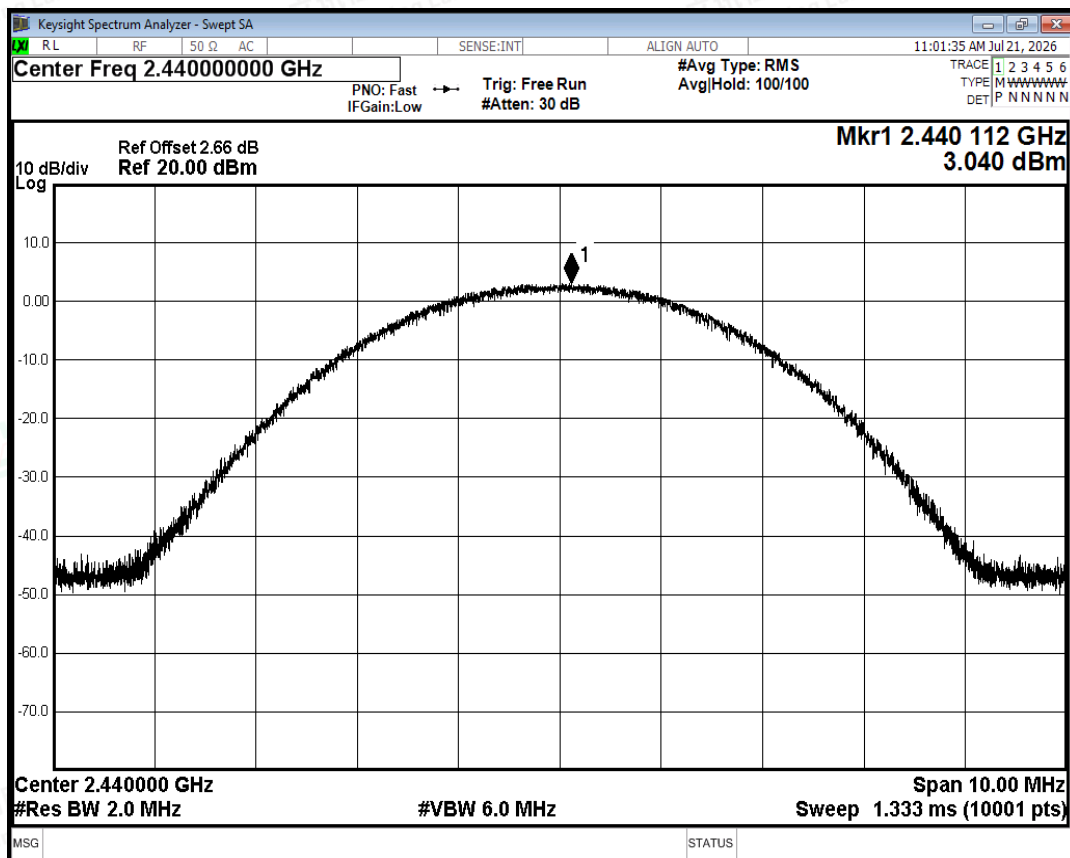
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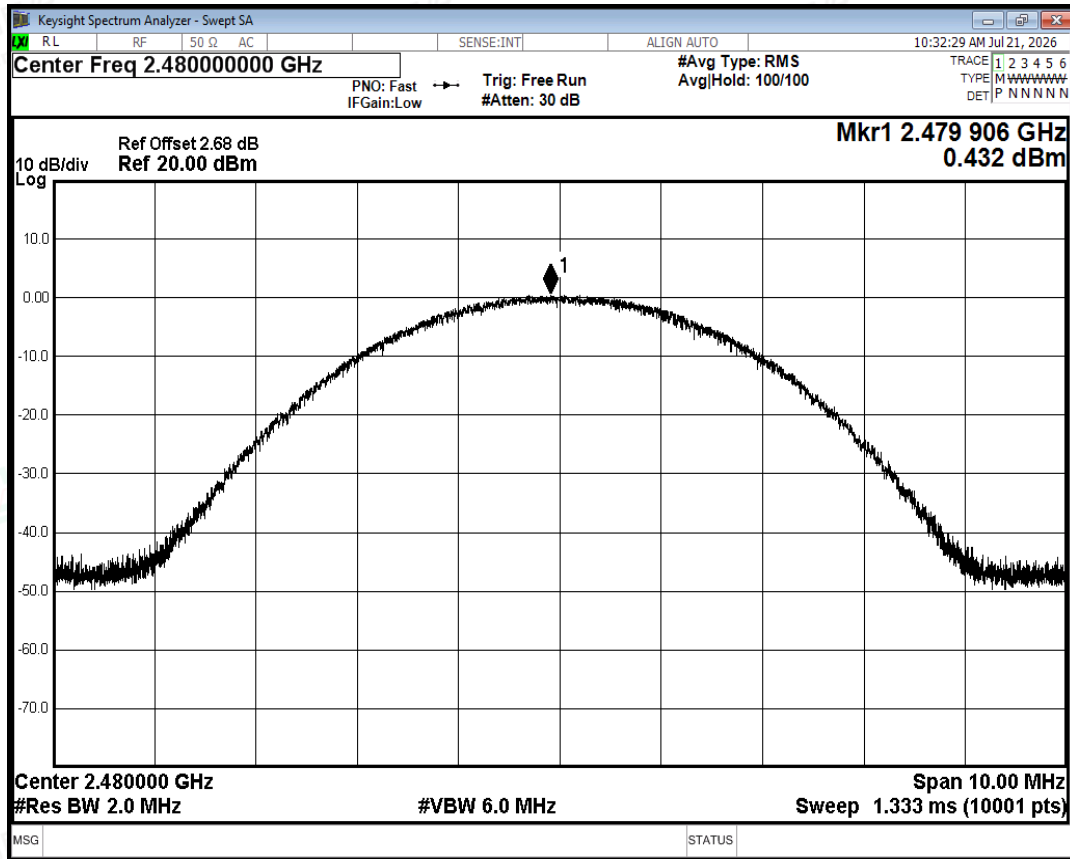
LCS-206016EA



Peak Power NVNT 2.4G_1M_QPSK 2402MHz Ant1



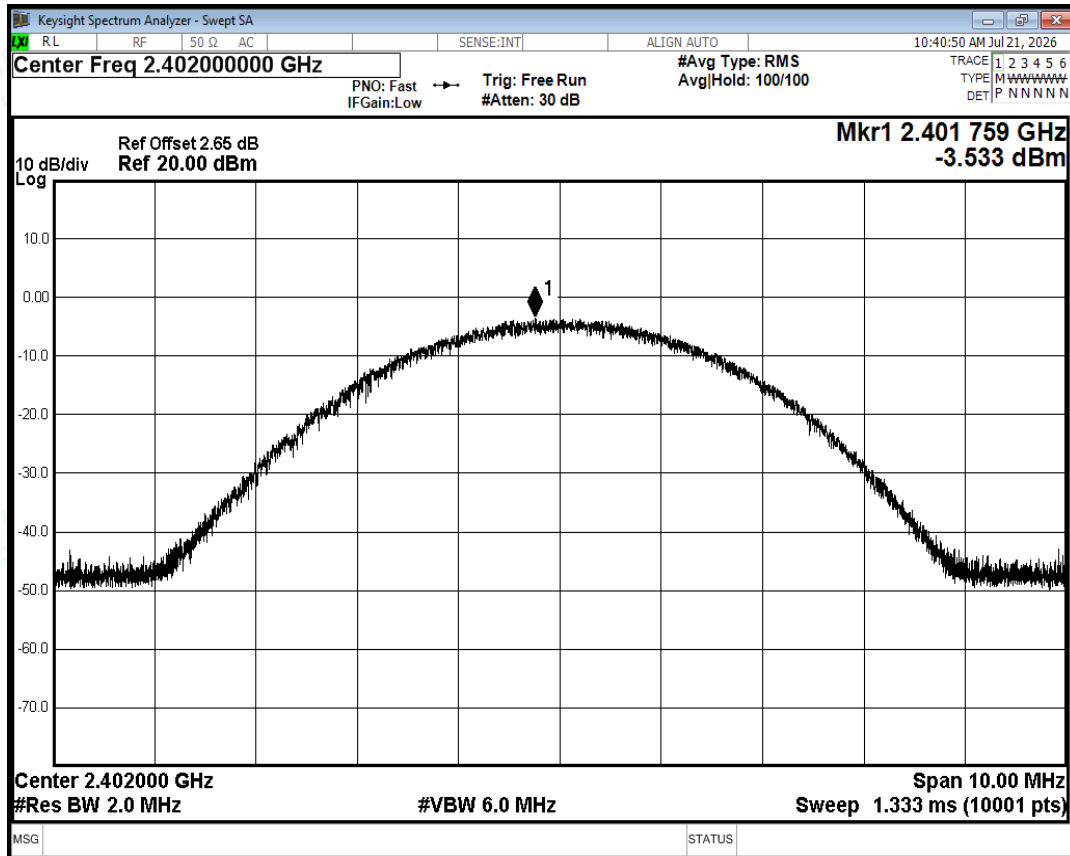
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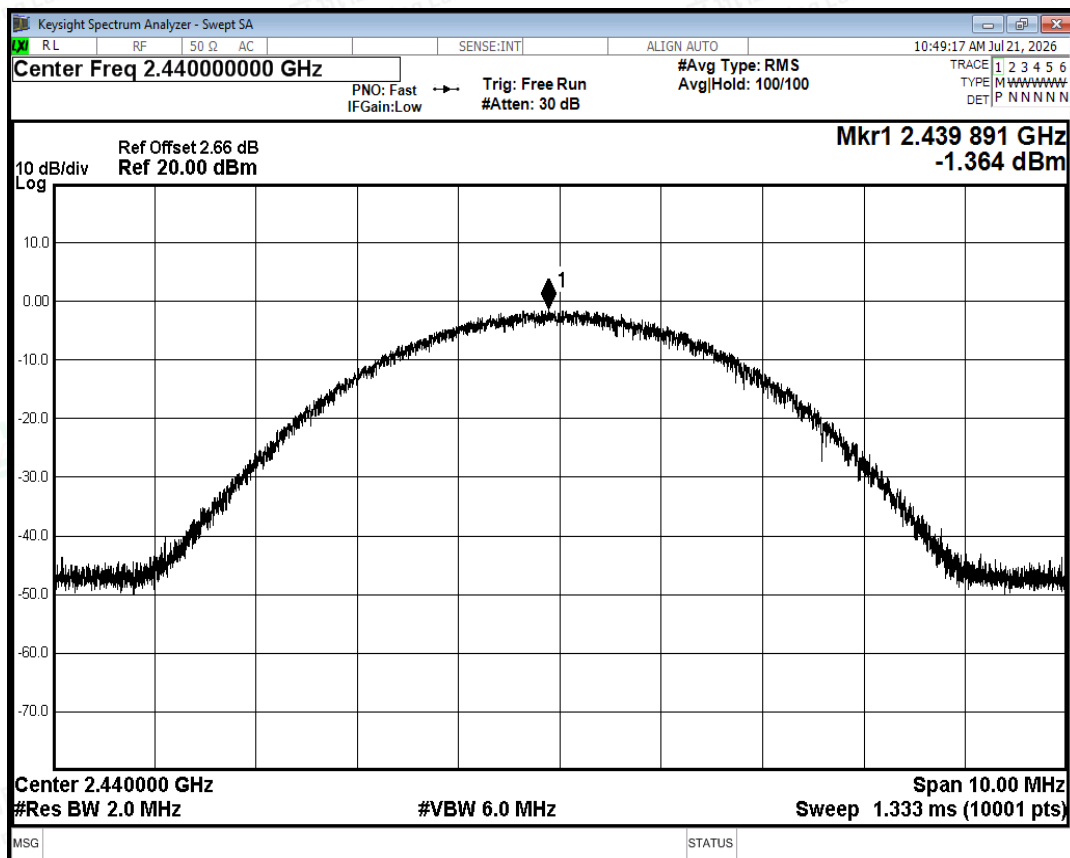
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LCS-206016EA



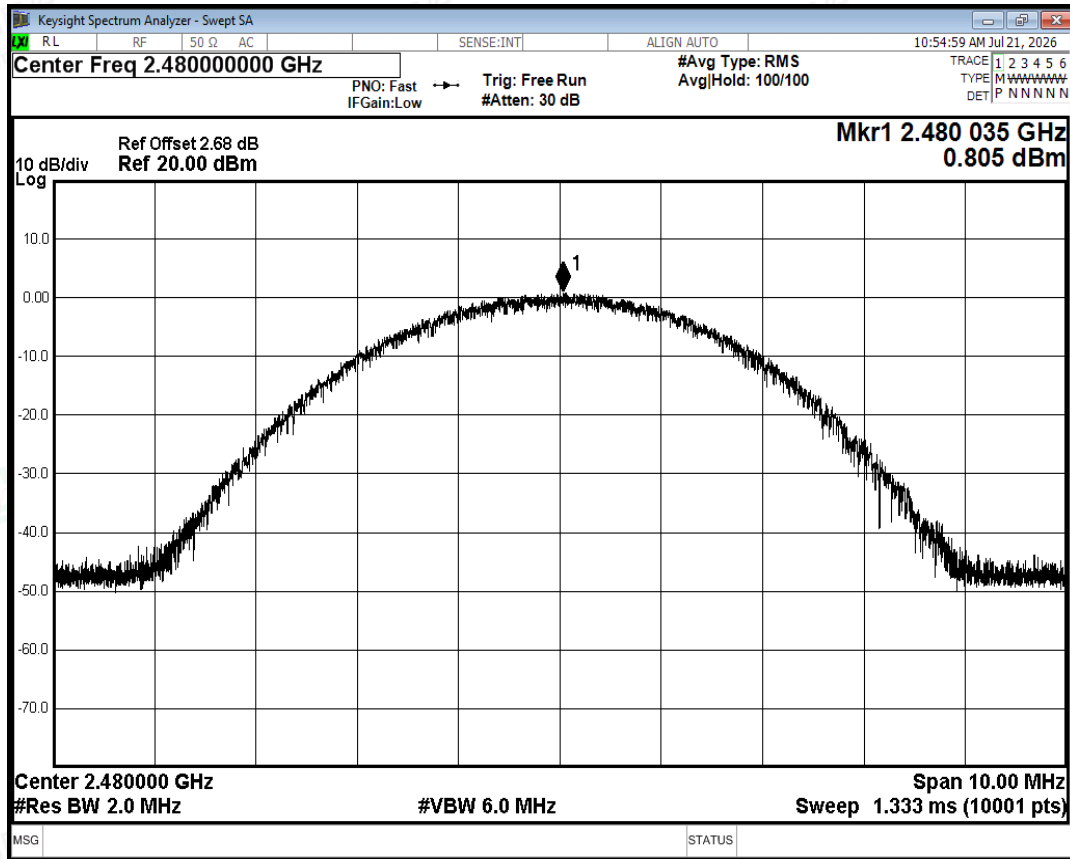
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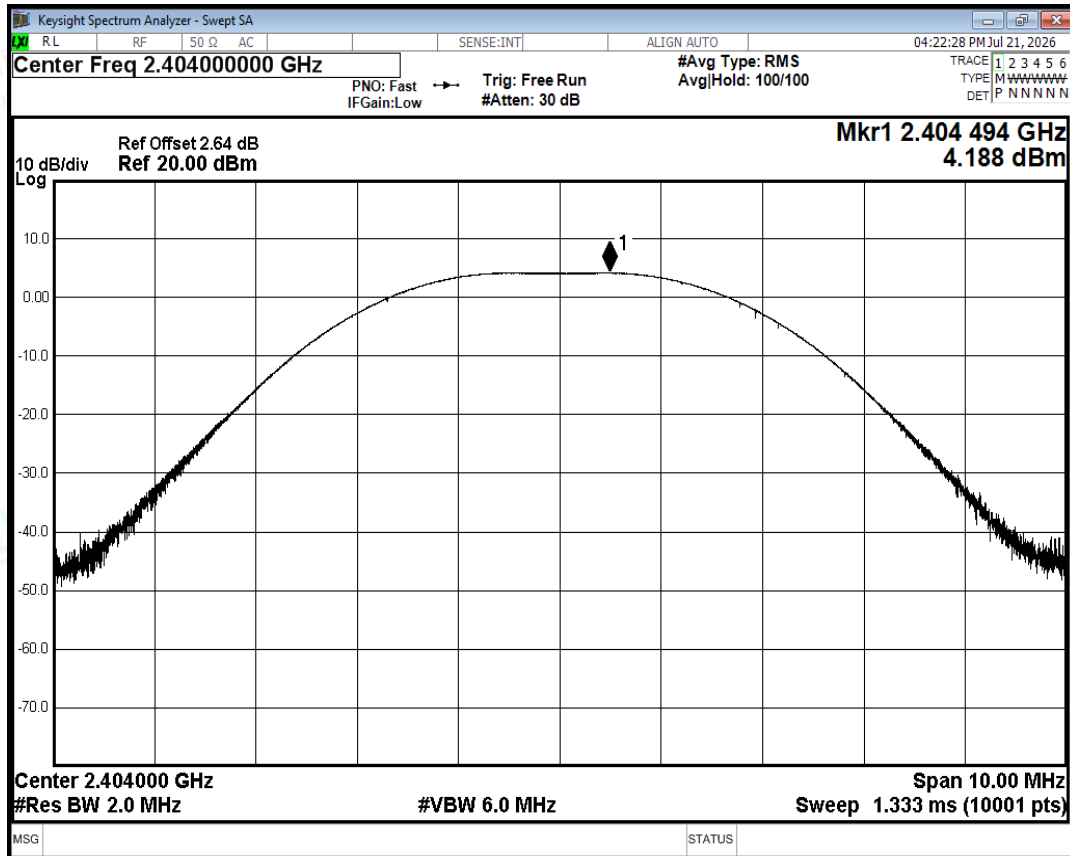


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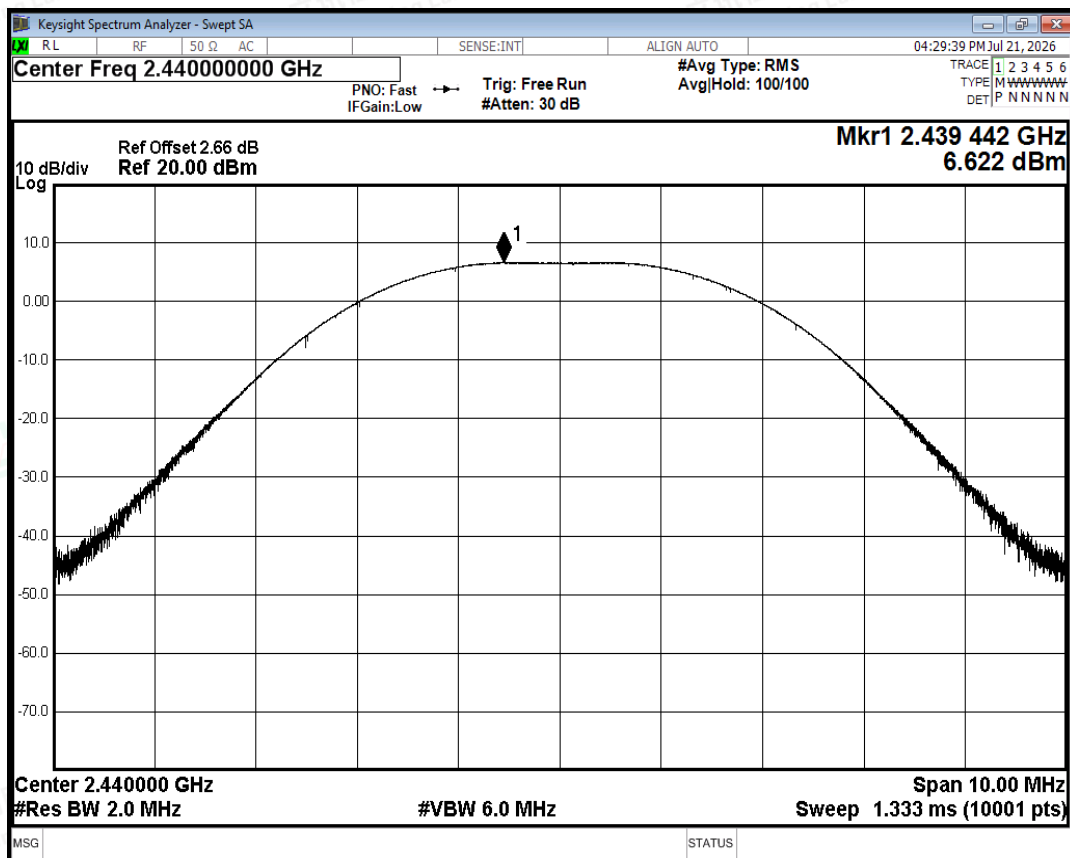
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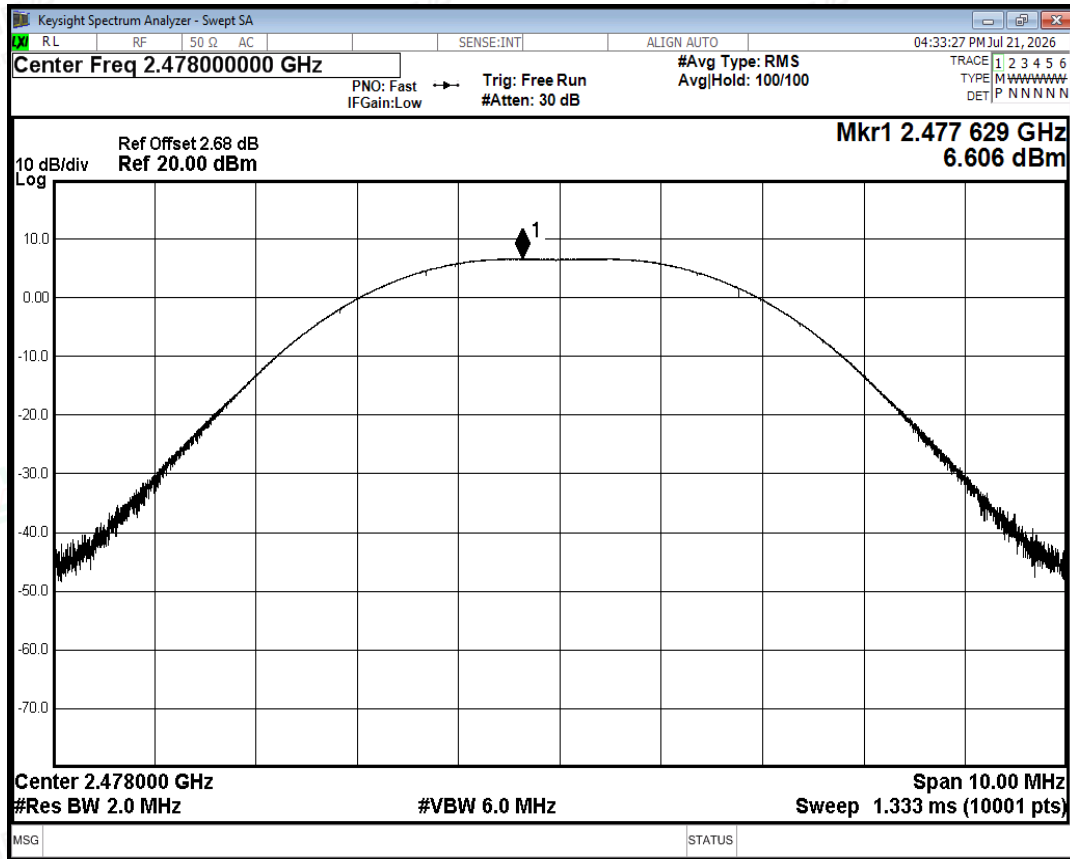
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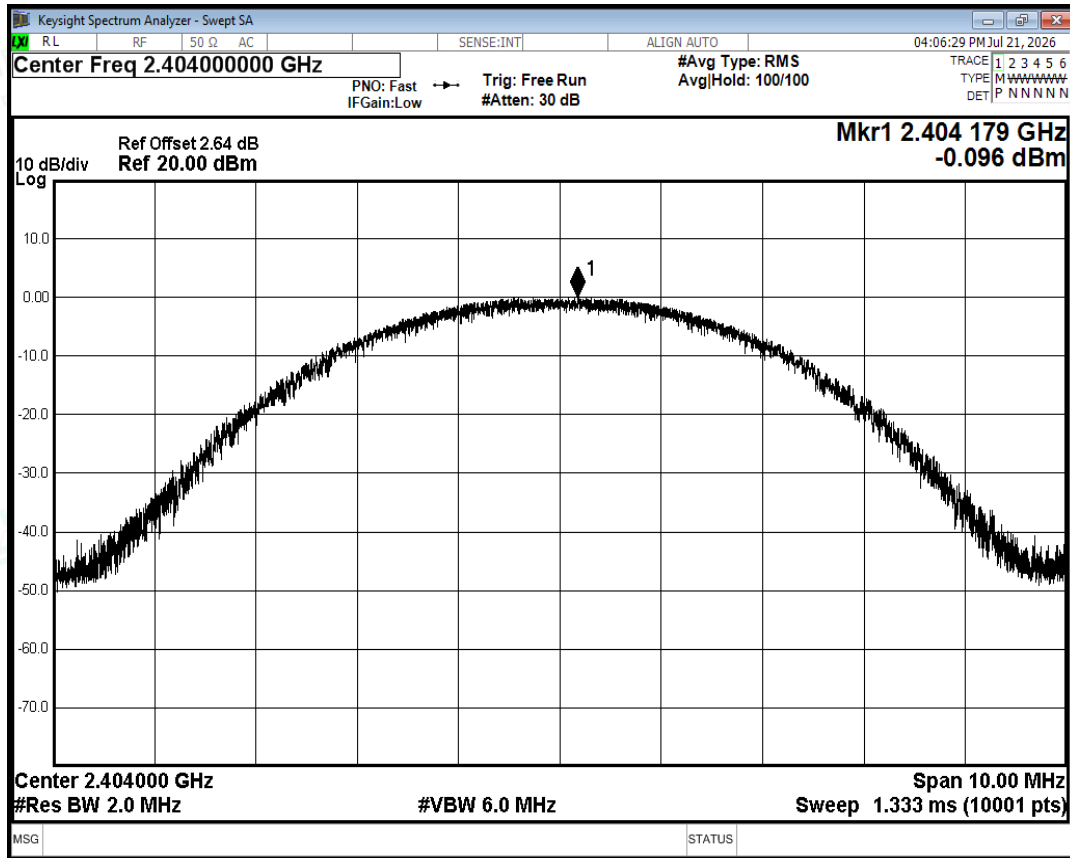
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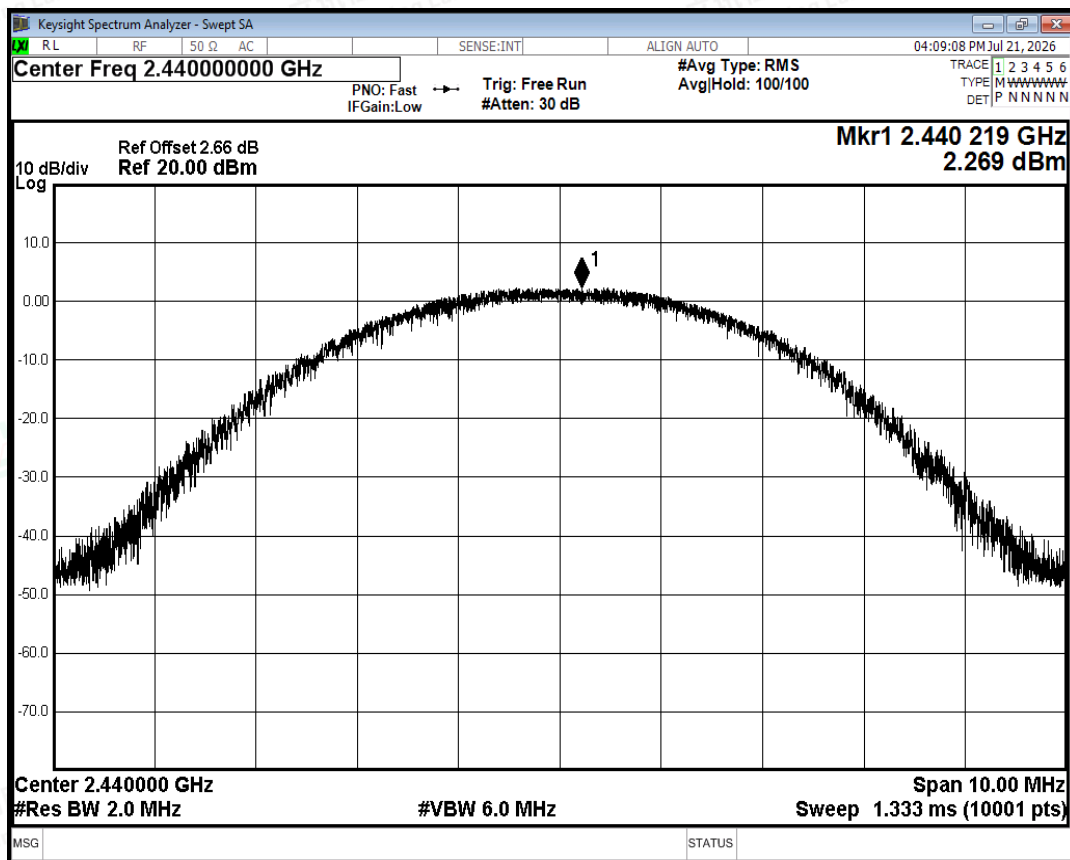
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Peak Power NVNT 2.4G_2M_GFSK 2478MHz Ant1



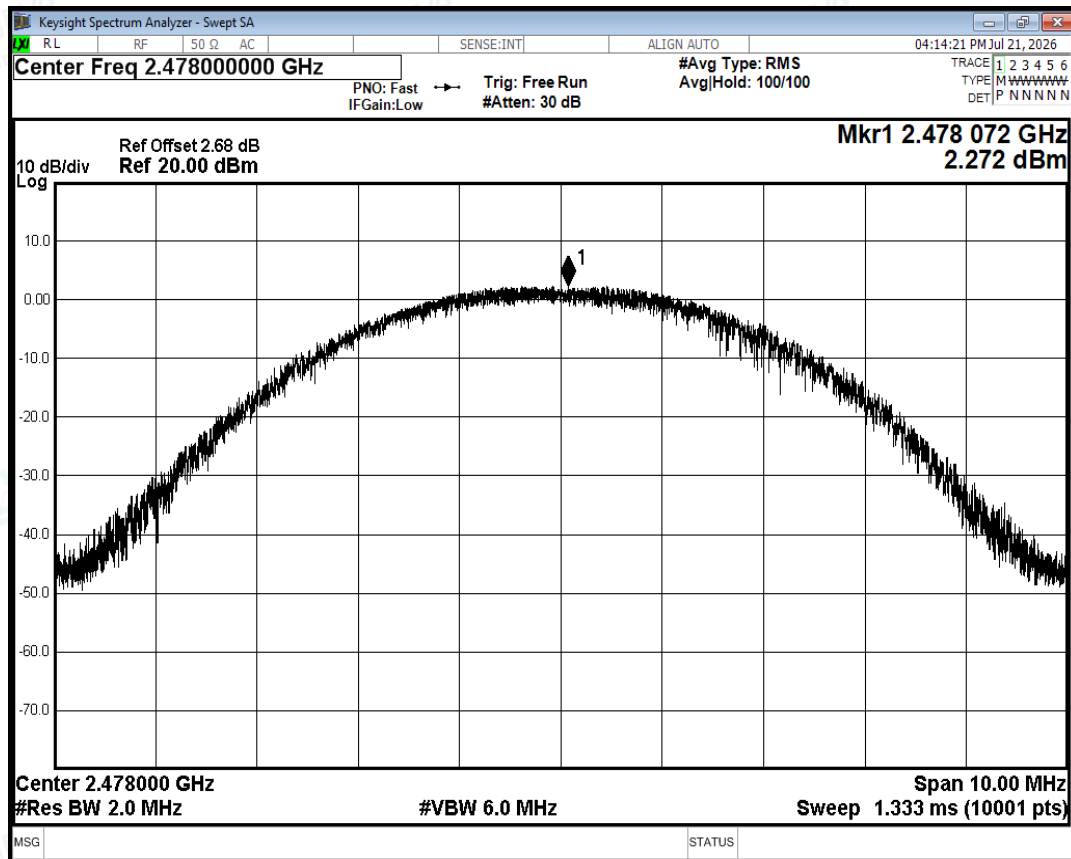
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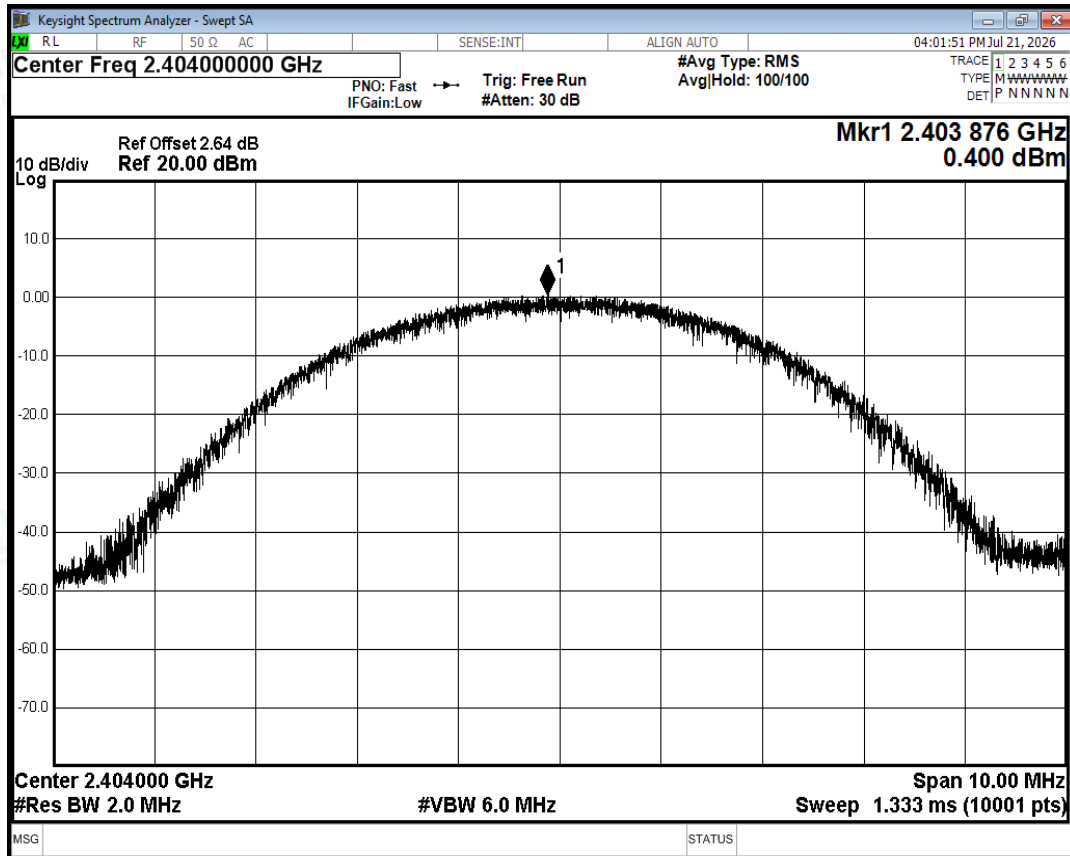
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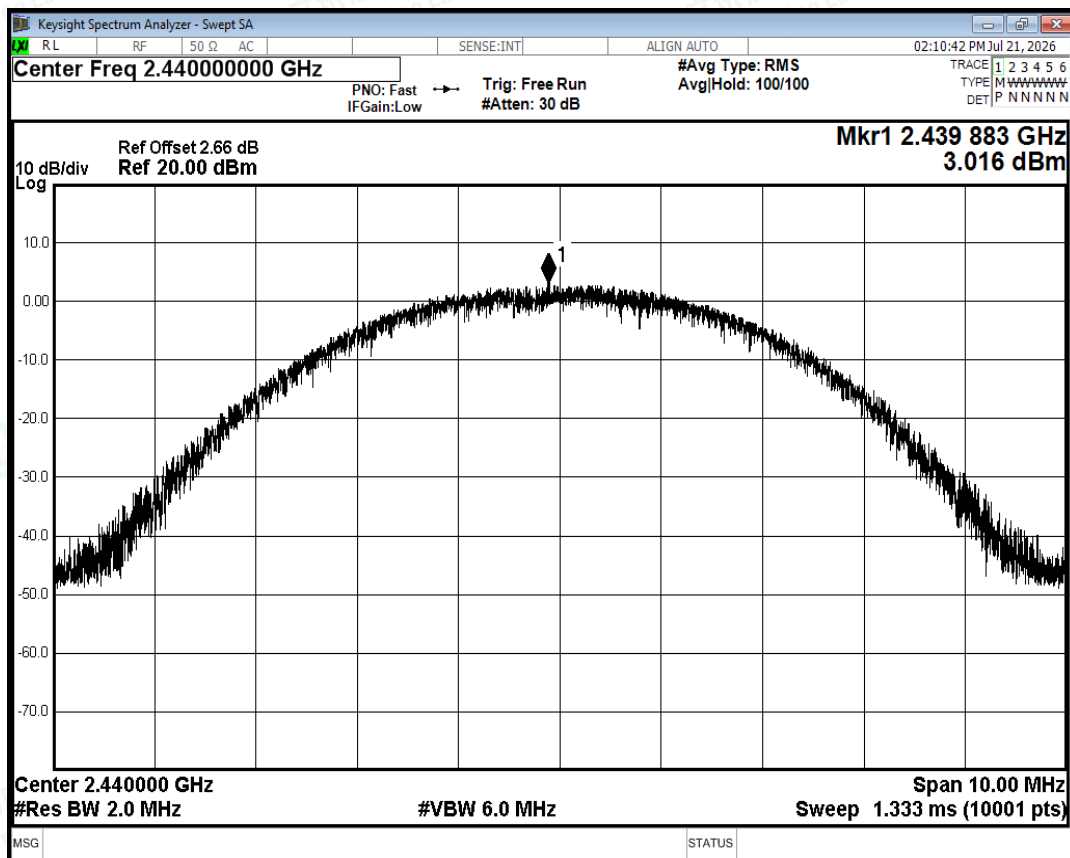
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Peak Power NVNT 2.4G_2M_8PSK 2404MHz Ant1



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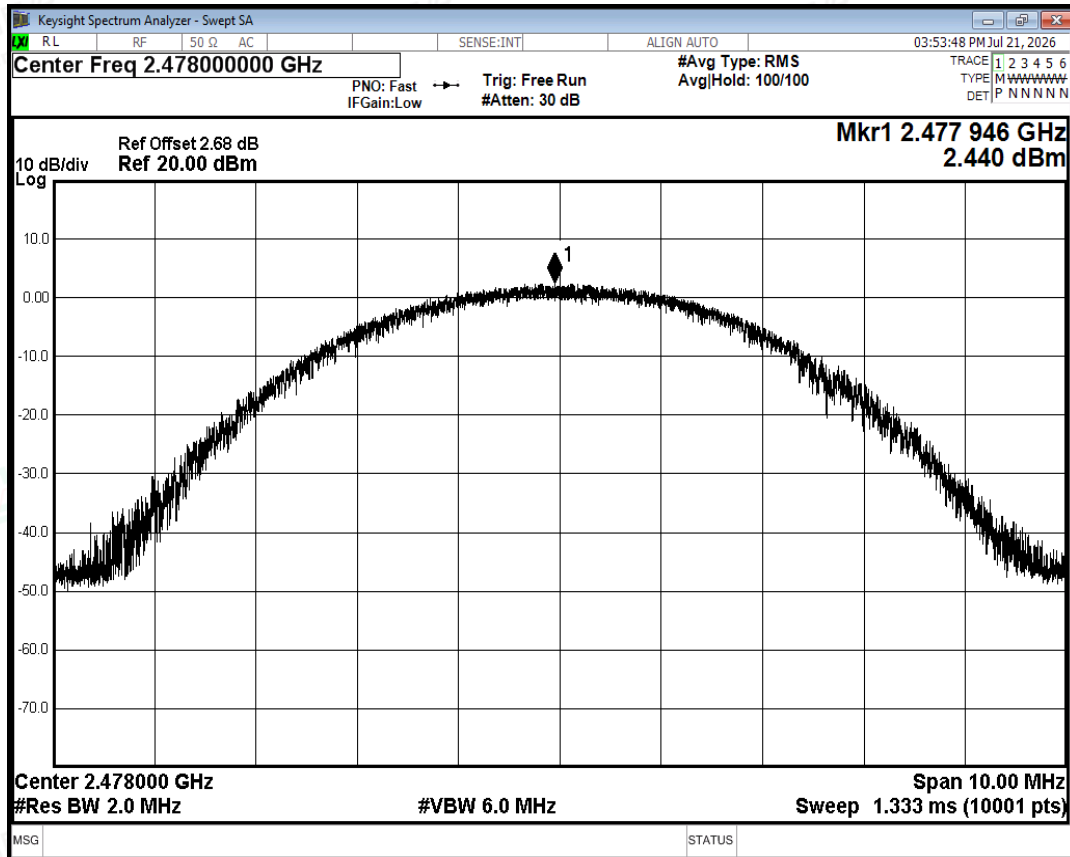
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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



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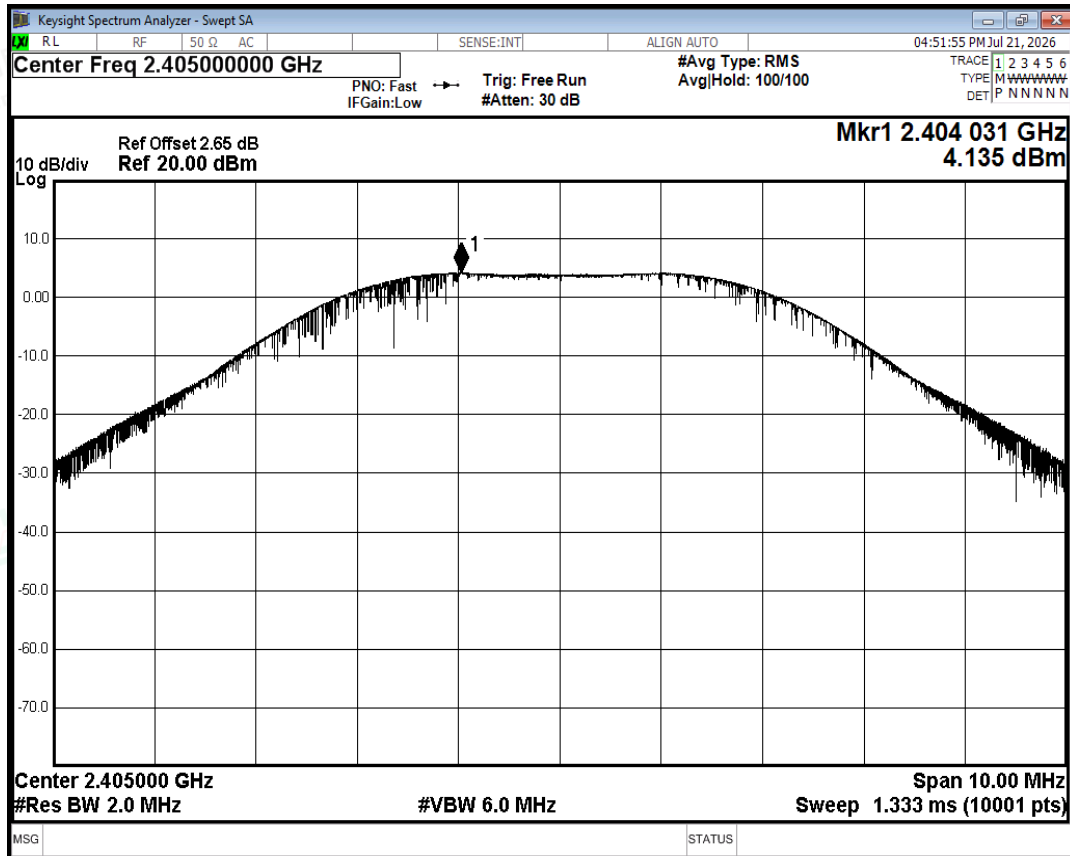
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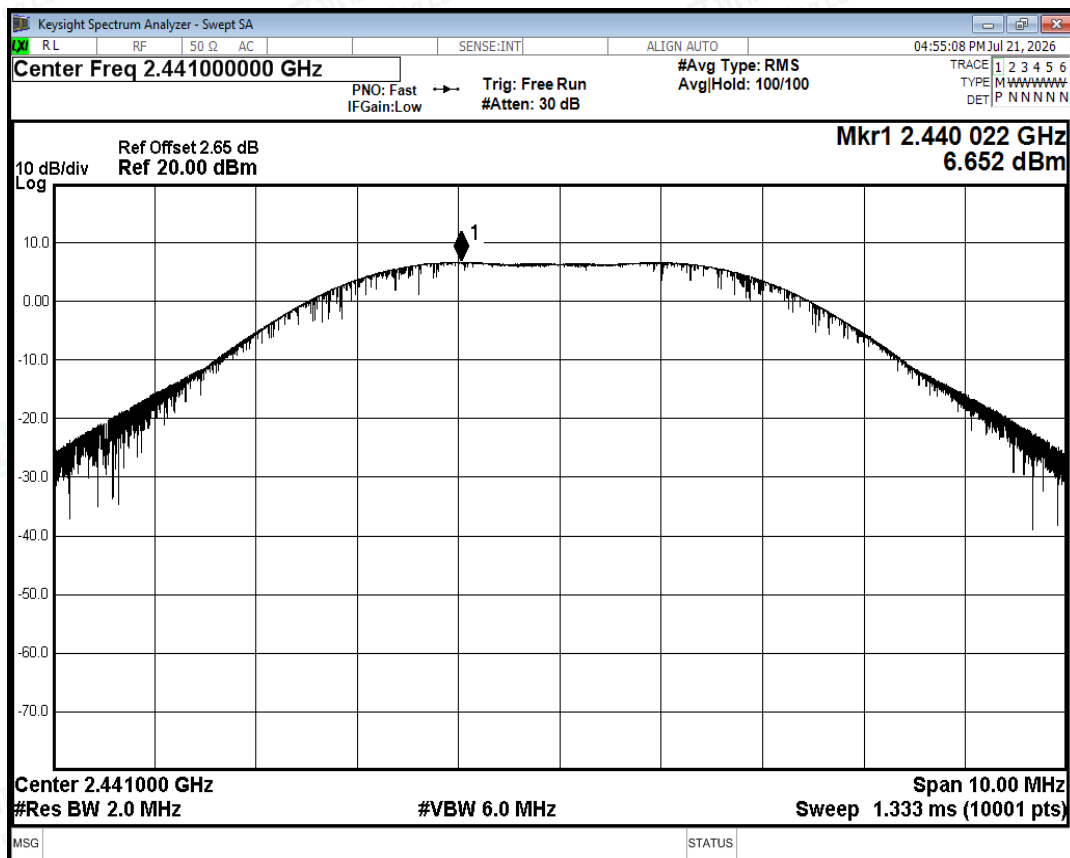
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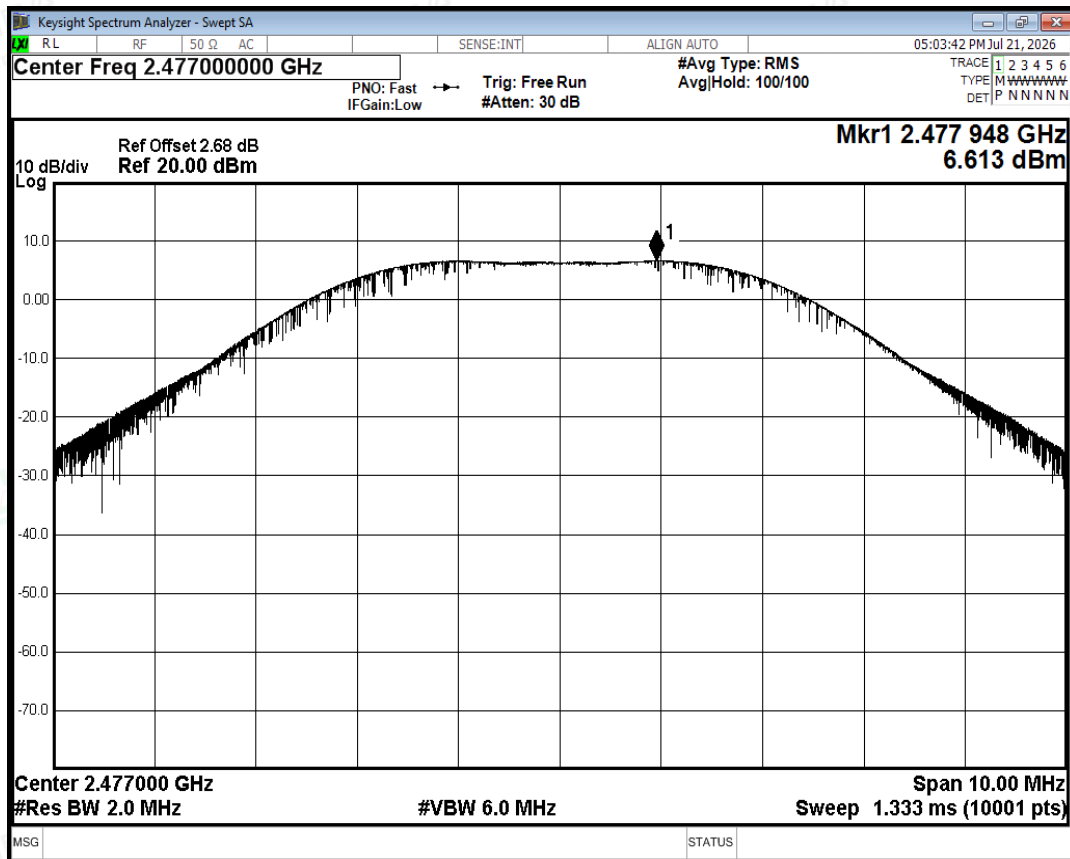
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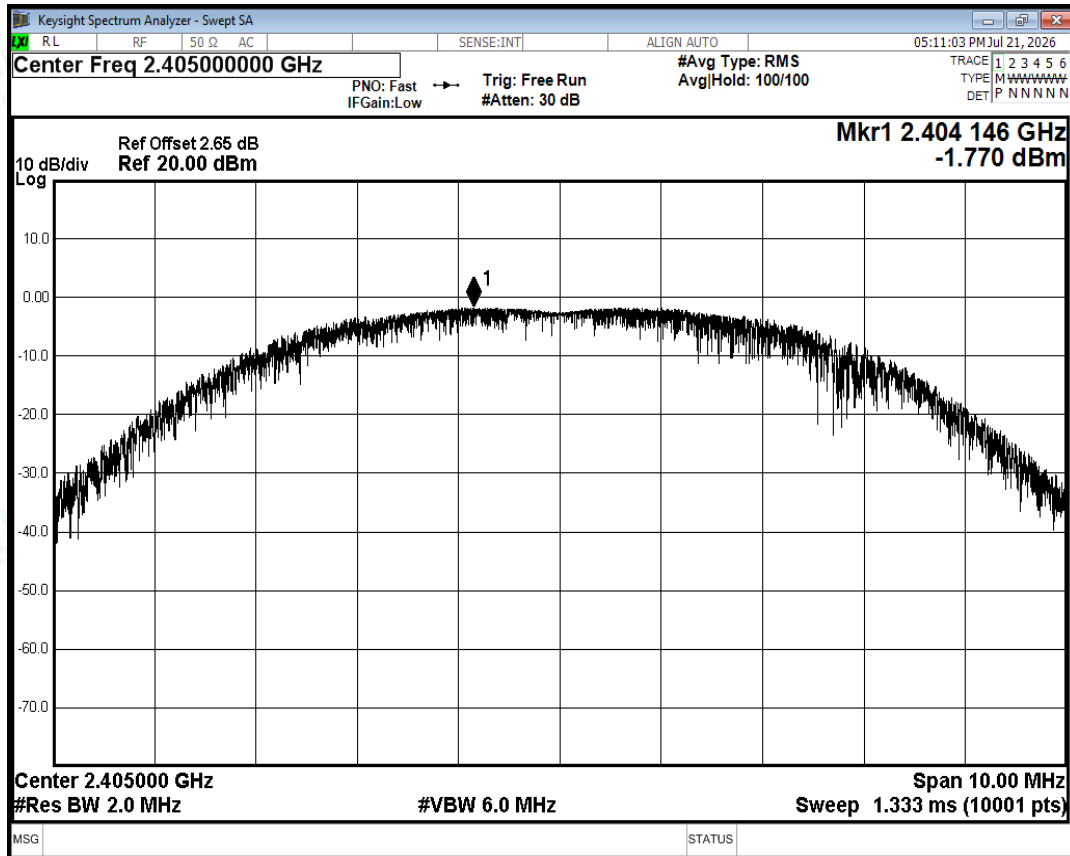
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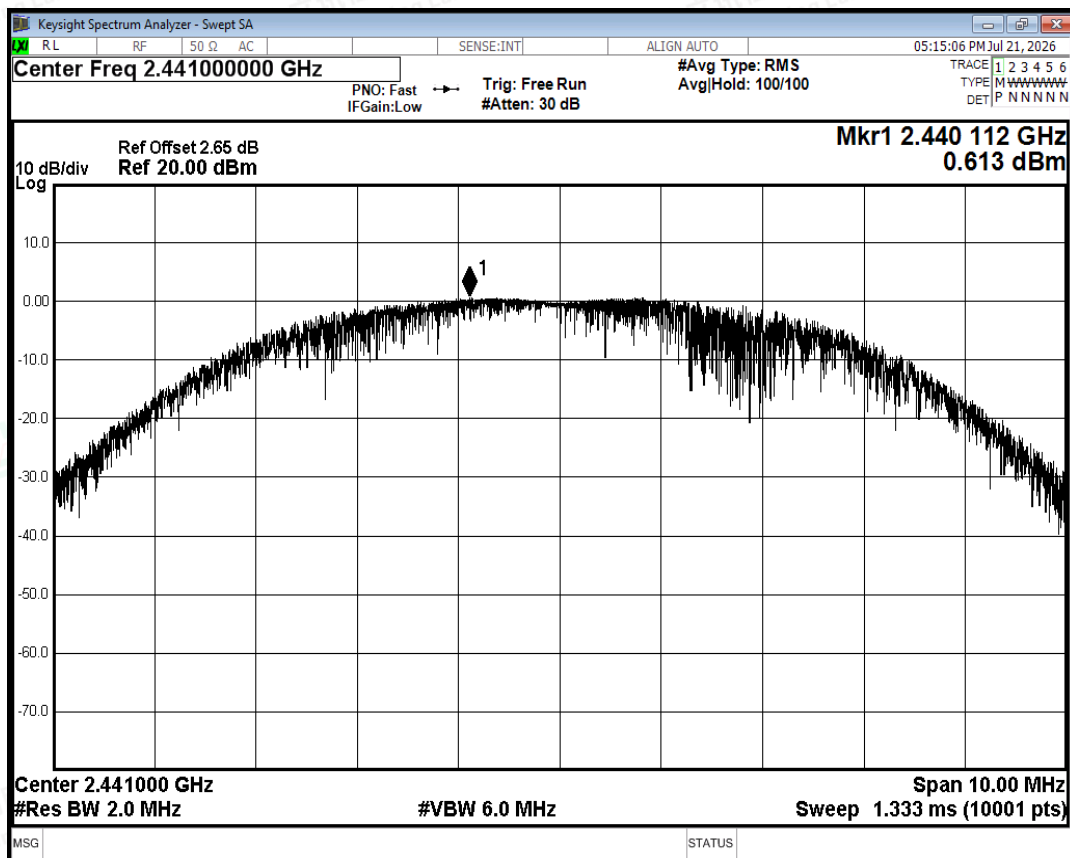
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Peak Power NVNT 2.4G_4M_GFSK 2477MHz Ant1



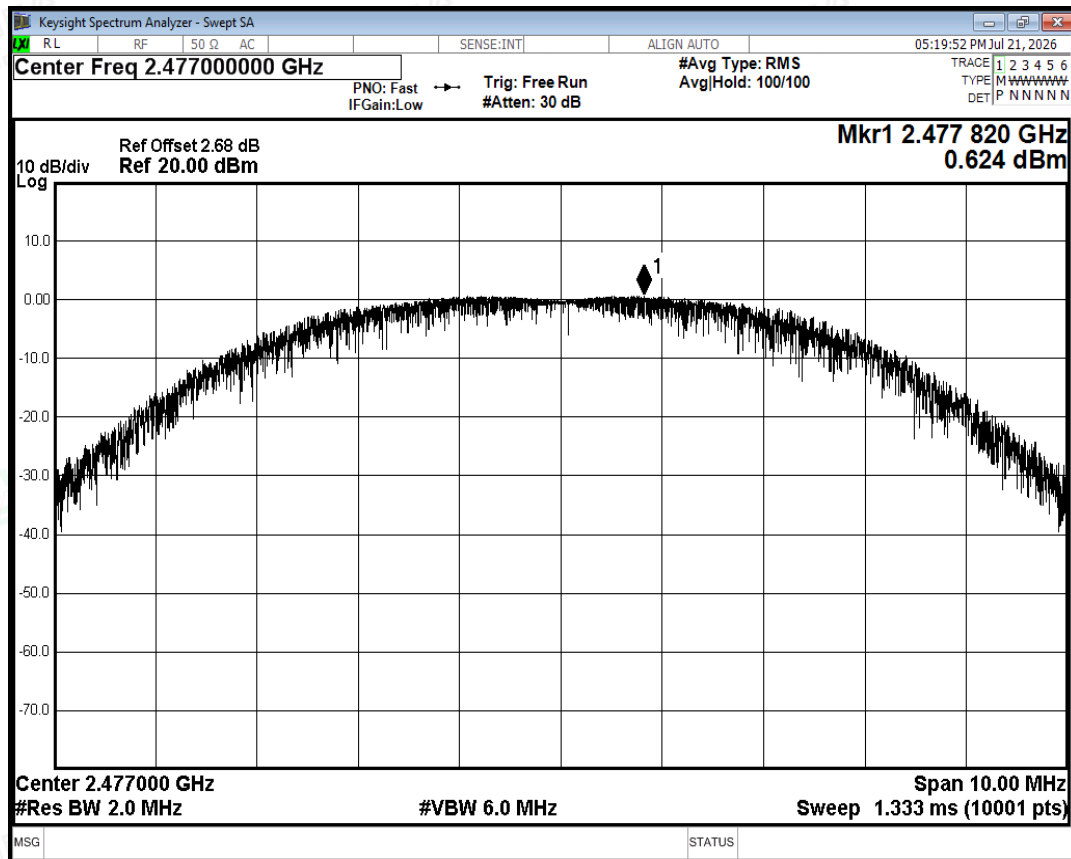
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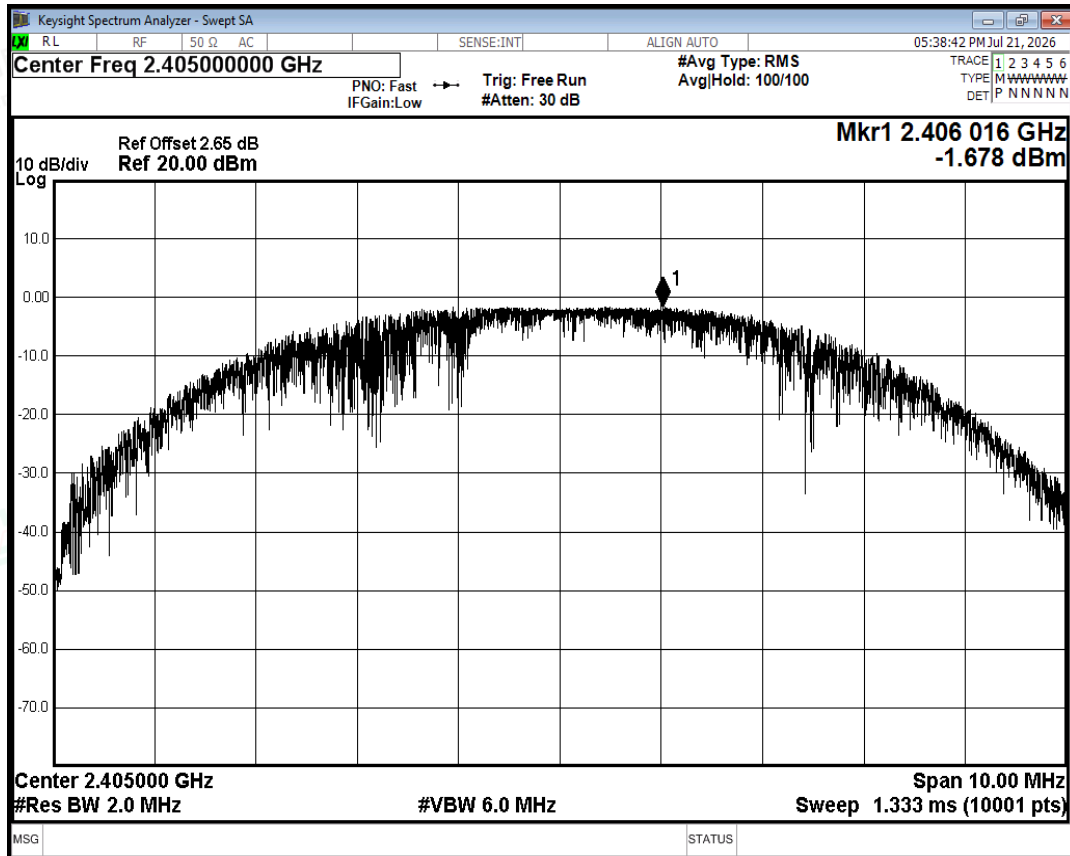
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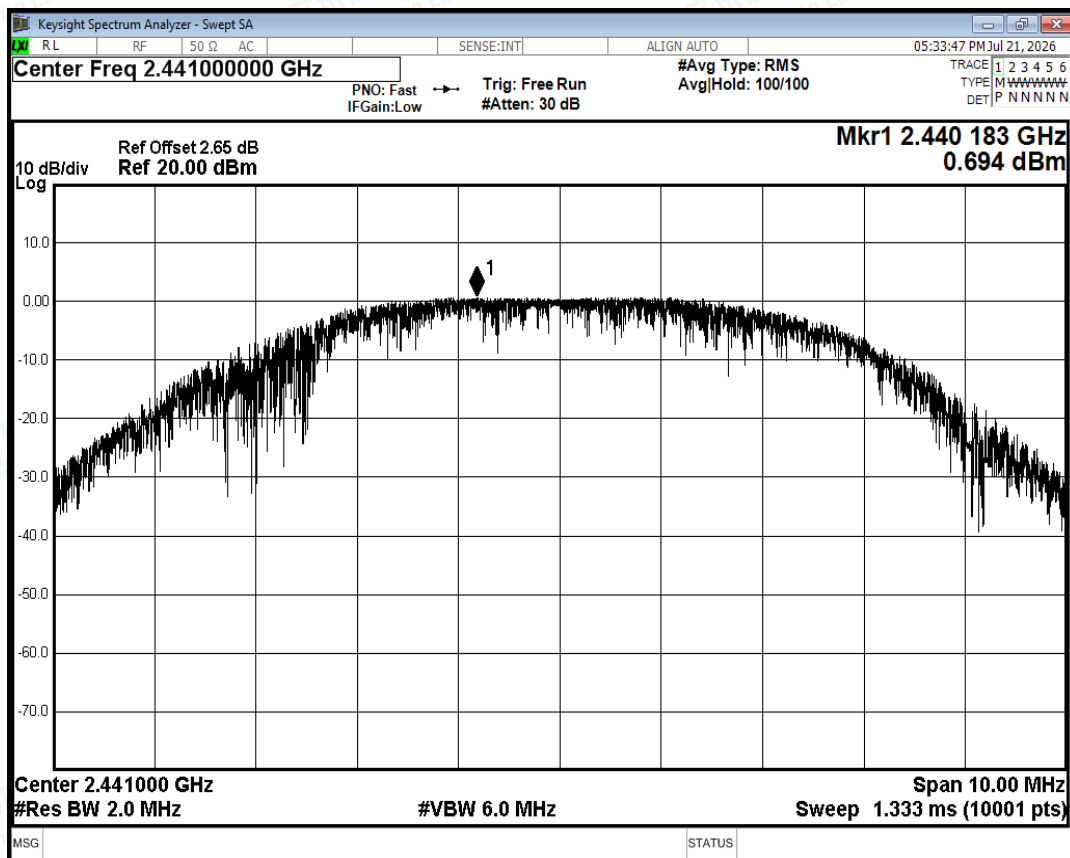
Peak Power NVNT 2.4G_4M_QPSK 2477MHz Ant1



LCS-206016EA



Peak Power NVNT 2.4G_4M_8PSK 2405MHz Ant1



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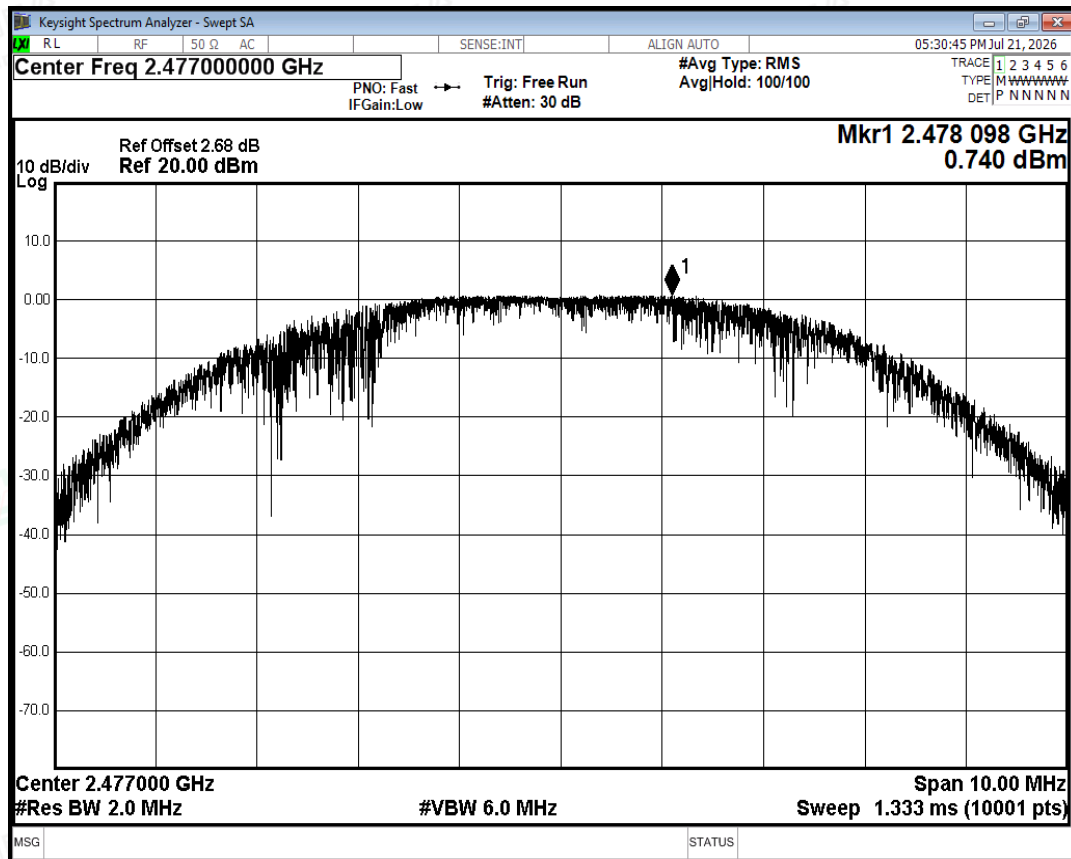
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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



LC-SAN-206016EA

Peak Power NVNT 2.4G_4M_8PSK 2441MHz Ant1



Peak Power NVNT 2.4G_4M_8PSK 2477MHz Ant1

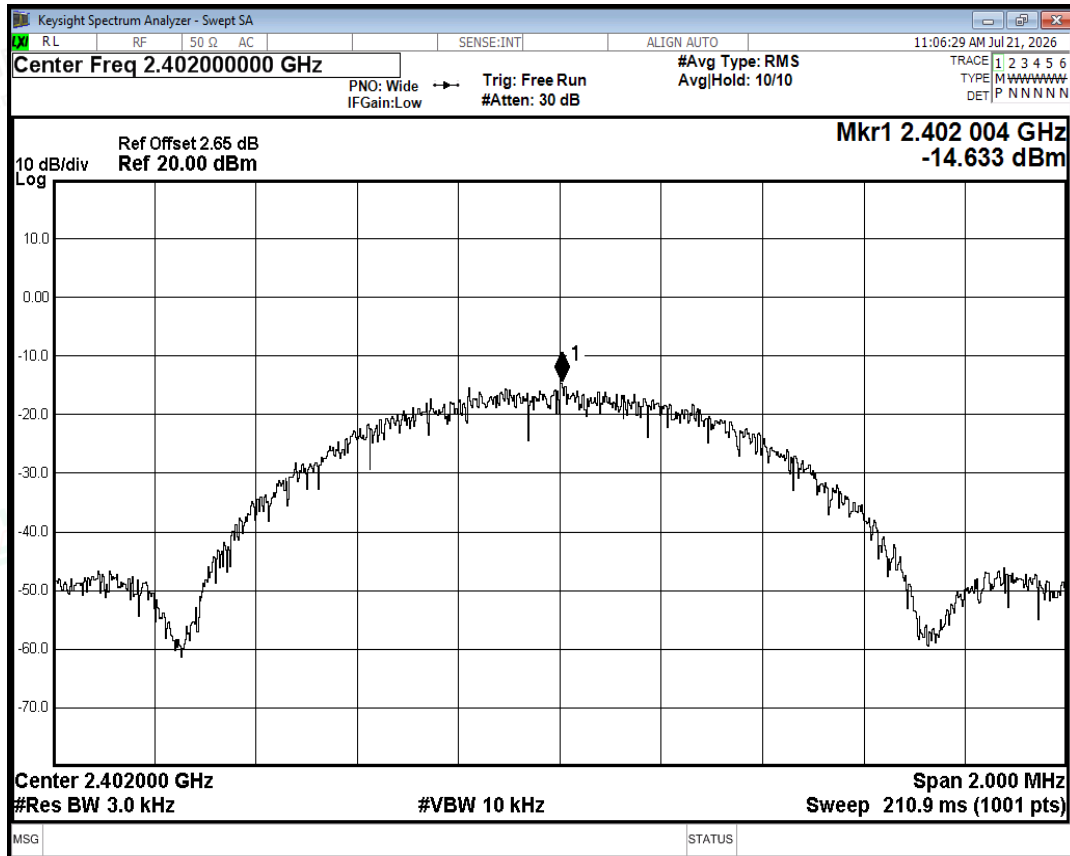


A.3 Maximum Power Spectral Density Level

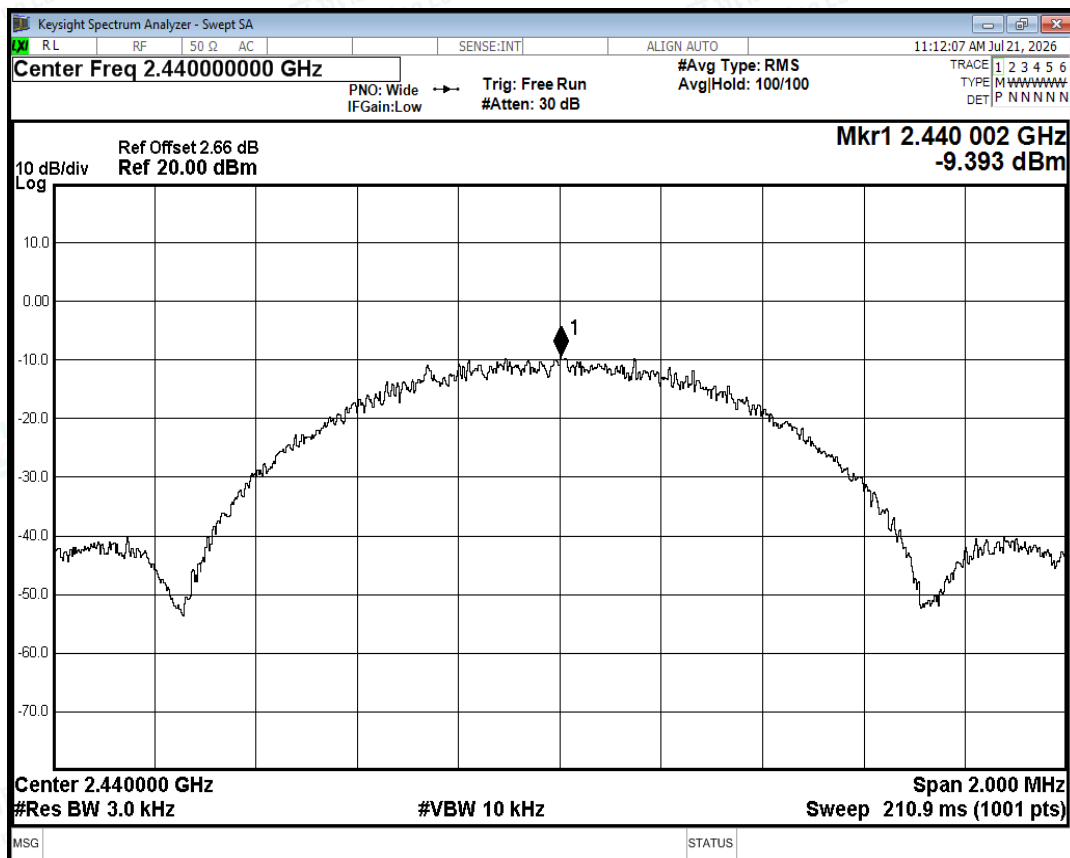
Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/3kHz)	Duty Factor (dB)	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	2.4G_1M_GFSK	2402	Ant1	-14.63	0	-14.63	8	Pass
NVNT	2.4G_1M_GFSK	2440	Ant1	-9.39	0	-9.39	8	Pass
NVNT	2.4G_1M_GFSK	2480	Ant1	-12.05	0	-12.05	8	Pass
NVNT	2.4G_1M_QPSK	2402	Ant1	-22.39	0	-22.39	8	Pass
NVNT	2.4G_1M_QPSK	2440	Ant1	-17.71	0	-17.71	8	Pass
NVNT	2.4G_1M_QPSK	2480	Ant1	-20.02	0	-20.02	8	Pass
NVNT	2.4G_1M_8PSK	2402	Ant1	-24.84	0	-24.84	8	Pass
NVNT	2.4G_1M_8PSK	2440	Ant1	-21.54	0	-21.54	8	Pass
NVNT	2.4G_1M_8PSK	2480	Ant1	-18.98	0	-18.98	8	Pass
NVNT	2.4G_2M_GFSK	2404	Ant1	-15.72	0	-15.72	8	Pass
NVNT	2.4G_2M_GFSK	2440	Ant1	-12.34	0	-12.34	8	Pass
NVNT	2.4G_2M_GFSK	2478	Ant1	-11.96	0	-11.96	8	Pass
NVNT	2.4G_2M_QPSK	2404	Ant1	-22.87	0	-22.87	8	Pass
NVNT	2.4G_2M_QPSK	2440	Ant1	-21.5	0	-21.5	8	Pass
NVNT	2.4G_2M_QPSK	2478	Ant1	-20.57	0	-20.57	8	Pass
NVNT	2.4G_2M_8PSK	2404	Ant1	-18.28	0	-18.28	8	Pass
NVNT	2.4G_2M_8PSK	2440	Ant1	-20.74	0	-20.74	8	Pass
NVNT	2.4G_2M_8PSK	2478	Ant1	-20.91	0	-20.91	8	Pass
NVNT	2.4G_4M_GFSK	2405	Ant1	-16.89	0	-16.89	8	Pass
NVNT	2.4G_4M_GFSK	2441	Ant1	-14.19	0	-14.19	8	Pass
NVNT	2.4G_4M_GFSK	2477	Ant1	-14.24	0	-14.24	8	Pass
NVNT	2.4G_4M_QPSK	2405	Ant1	-24.33	0	-24.33	8	Pass
NVNT	2.4G_4M_QPSK	2441	Ant1	-21.92	0	-21.92	8	Pass
NVNT	2.4G_4M_QPSK	2477	Ant1	-21.84	0	-21.84	8	Pass
NVNT	2.4G_4M_8PSK	2405	Ant1	-25.69	0	-25.69	8	Pass
NVNT	2.4G_4M_8PSK	2441	Ant1	-22.27	0	-22.27	8	Pass
NVNT	2.4G_4M_8PSK	2477	Ant1	-22.18	0	-22.18	8	Pass



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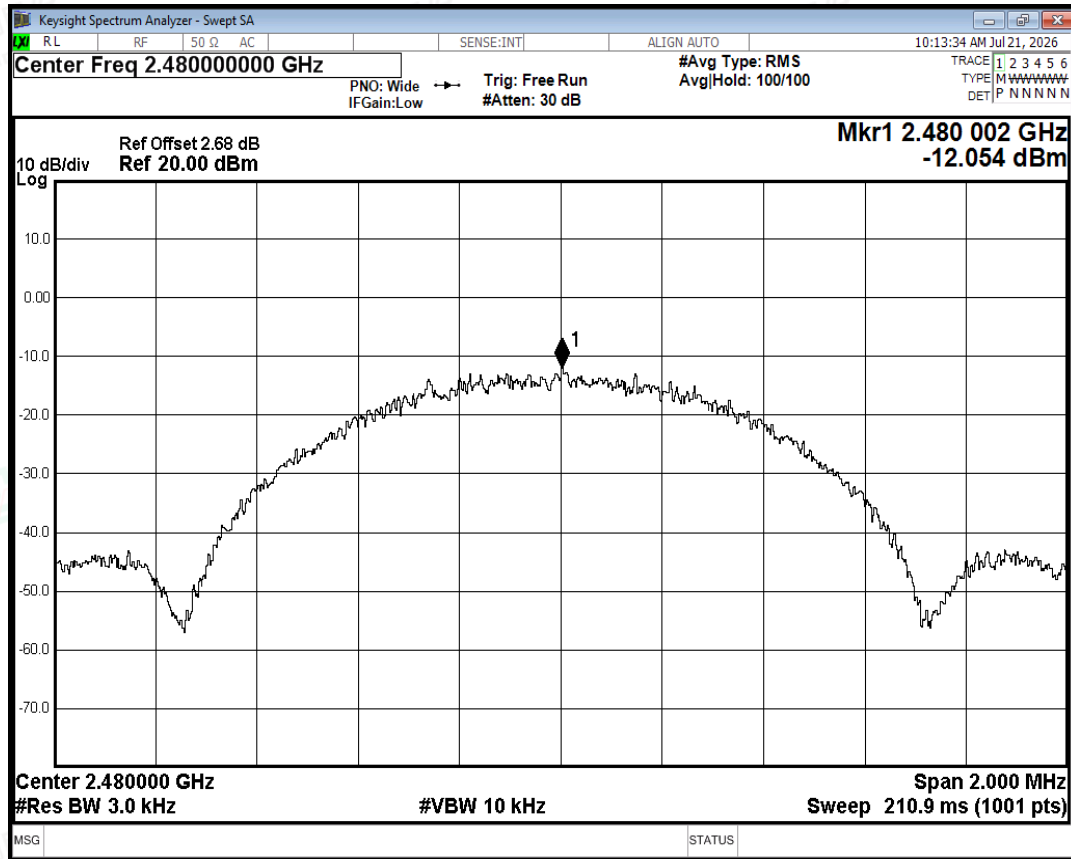
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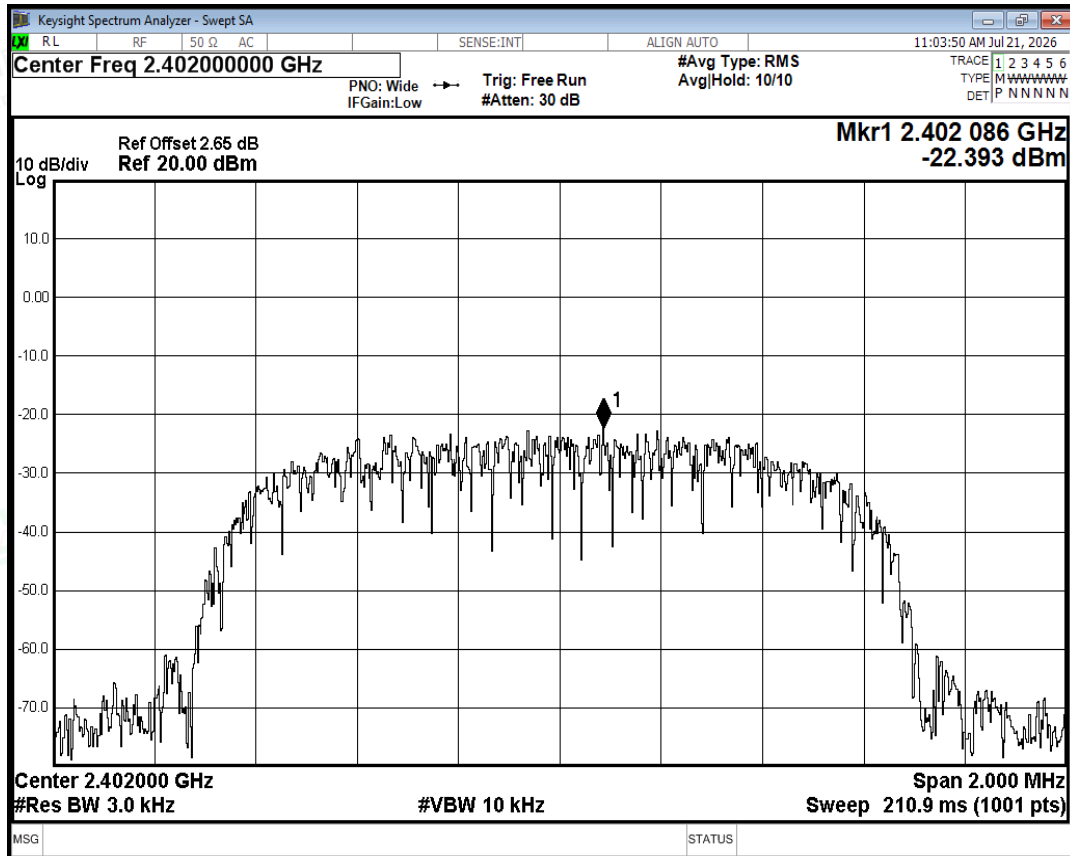


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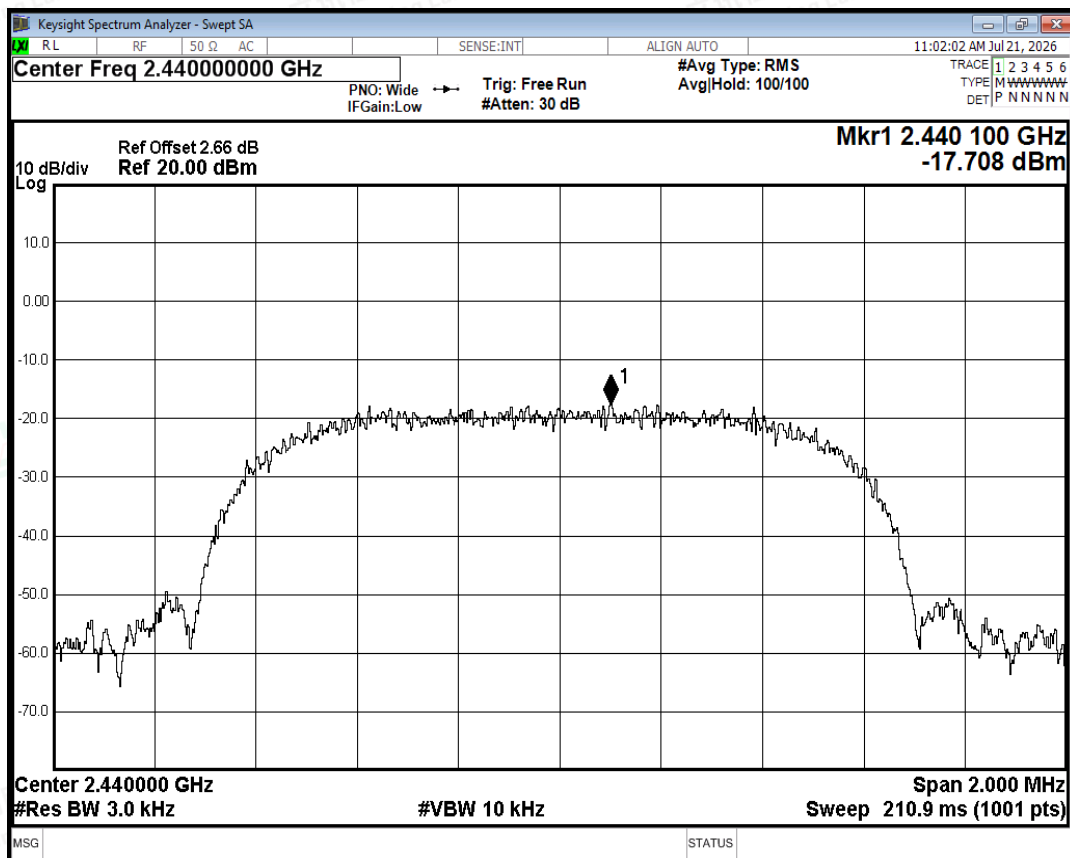
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PSD NVNT 2.4G_1M_GFSK 2480MHz Ant1



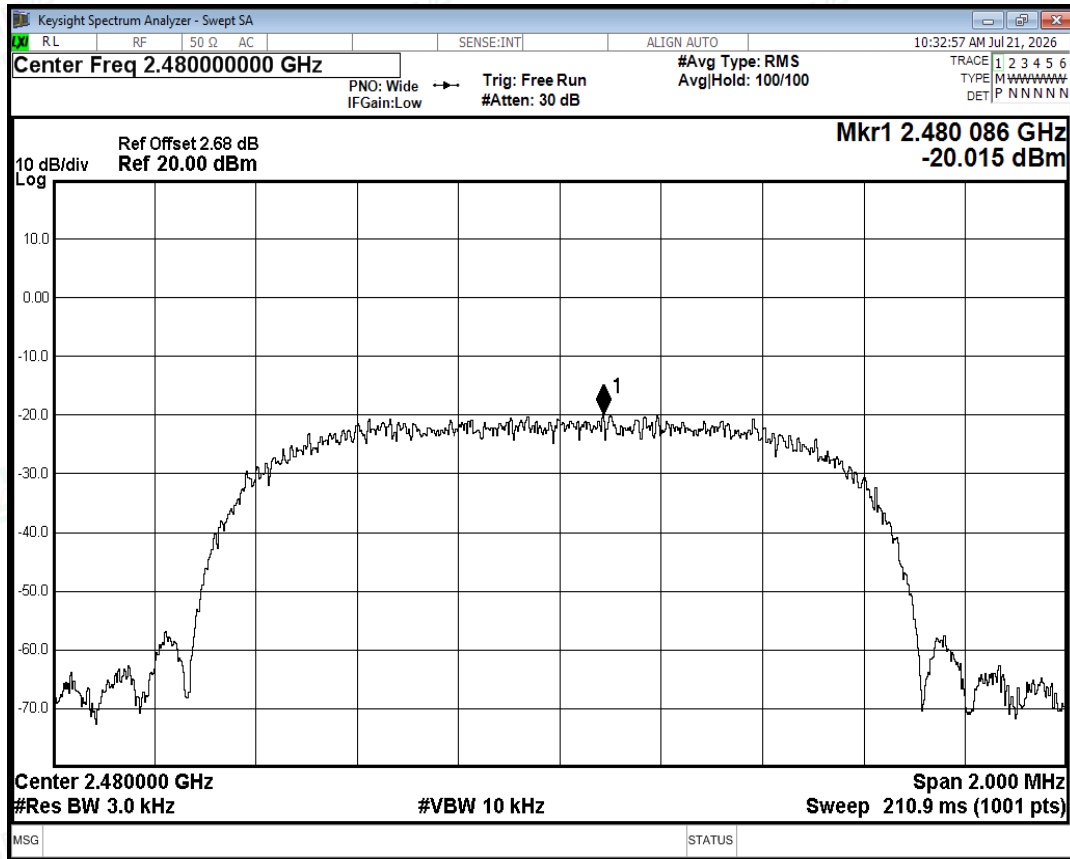
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LCS-206016EA

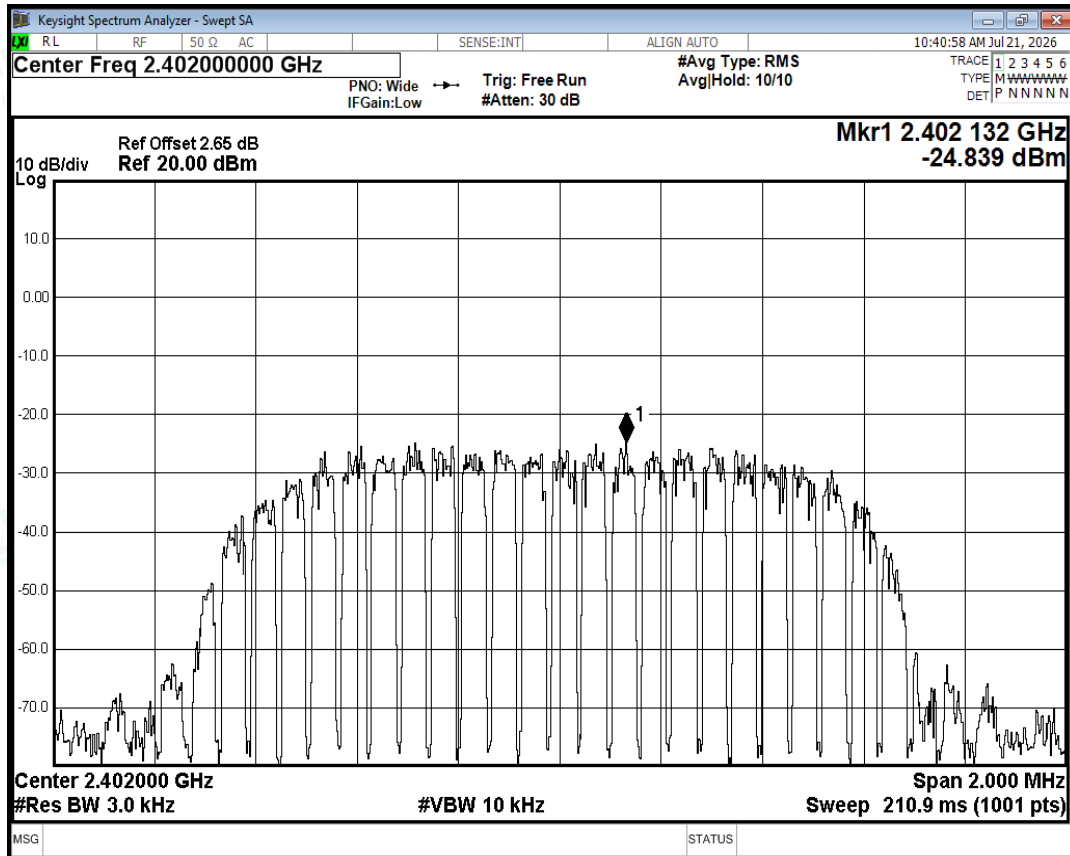
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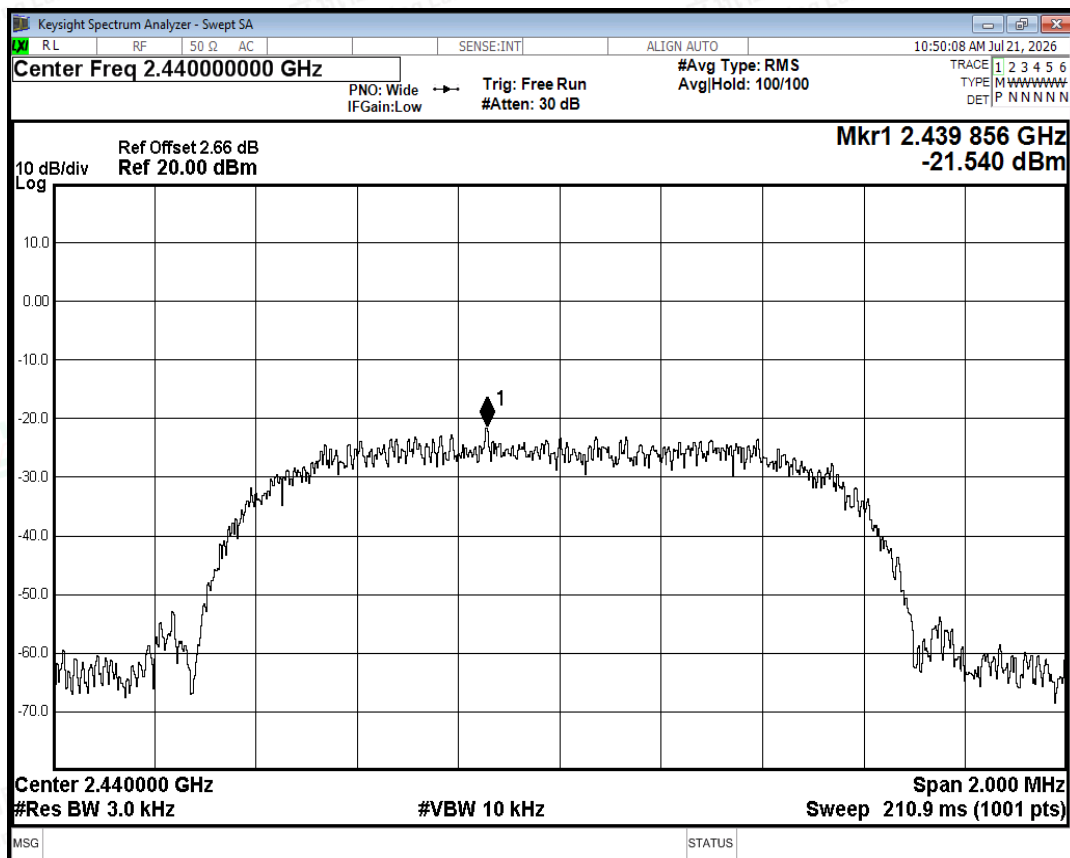
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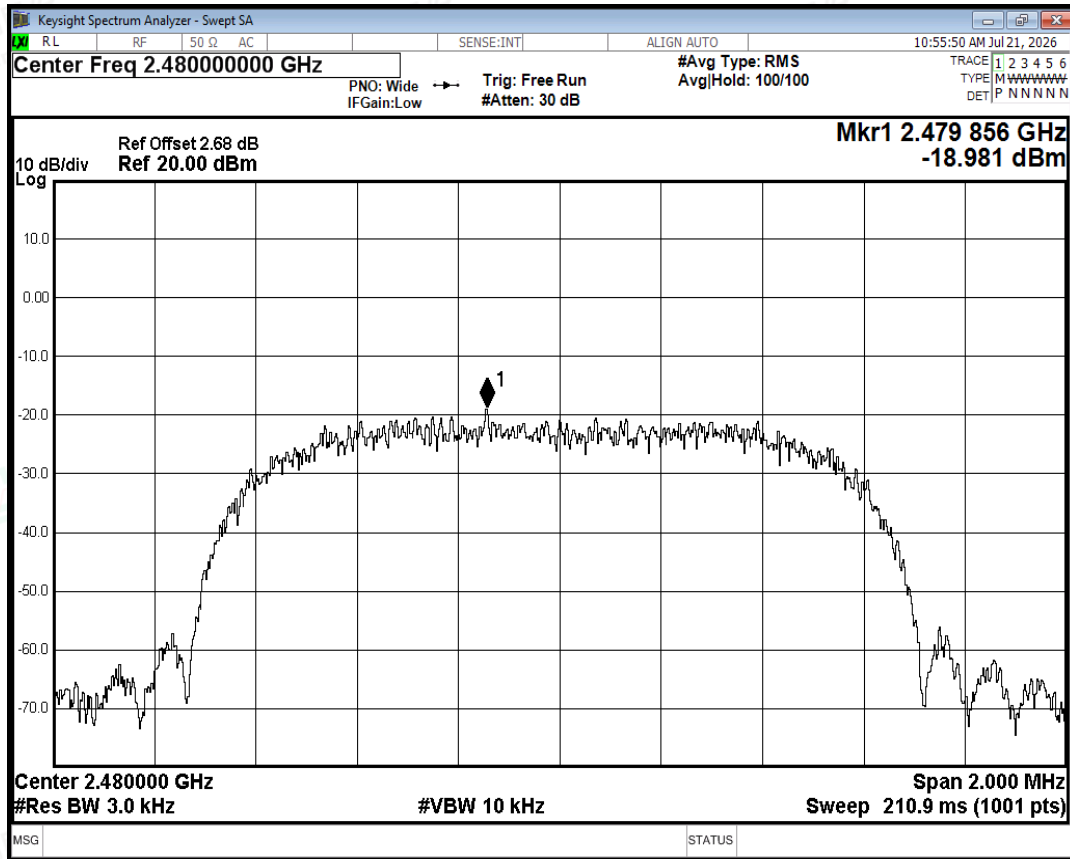
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LCS-202006016EA

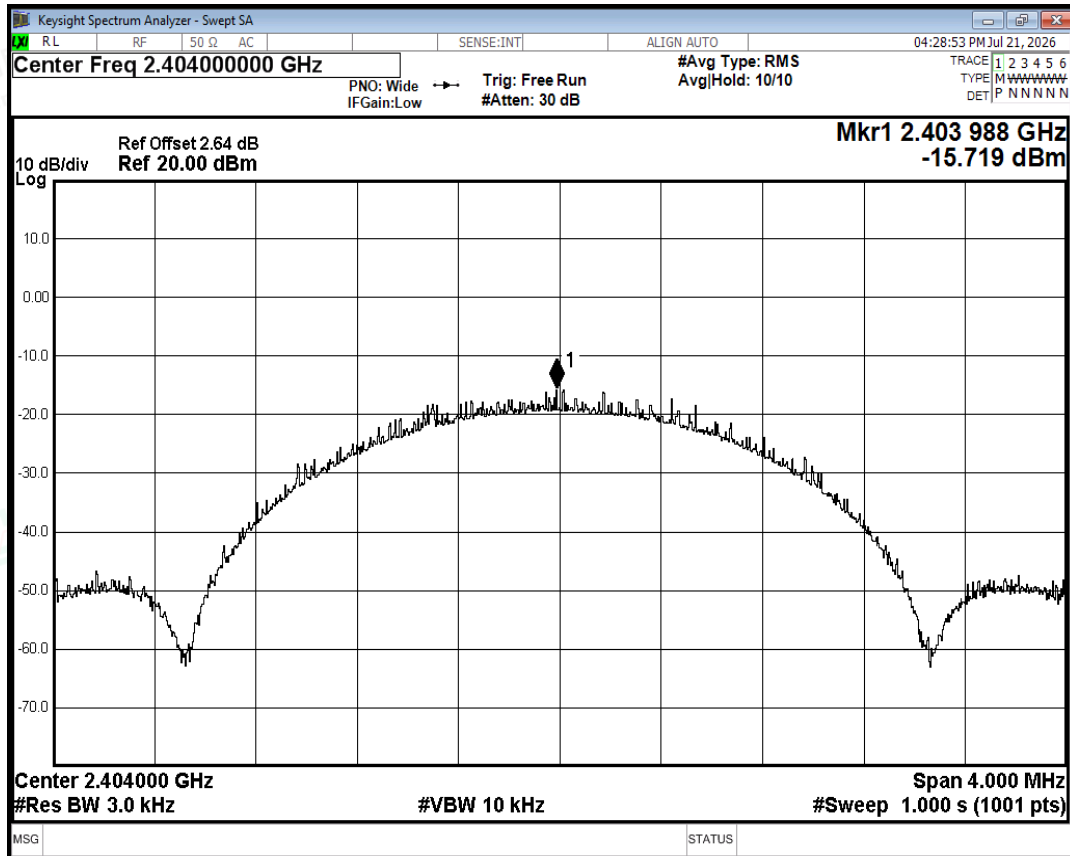
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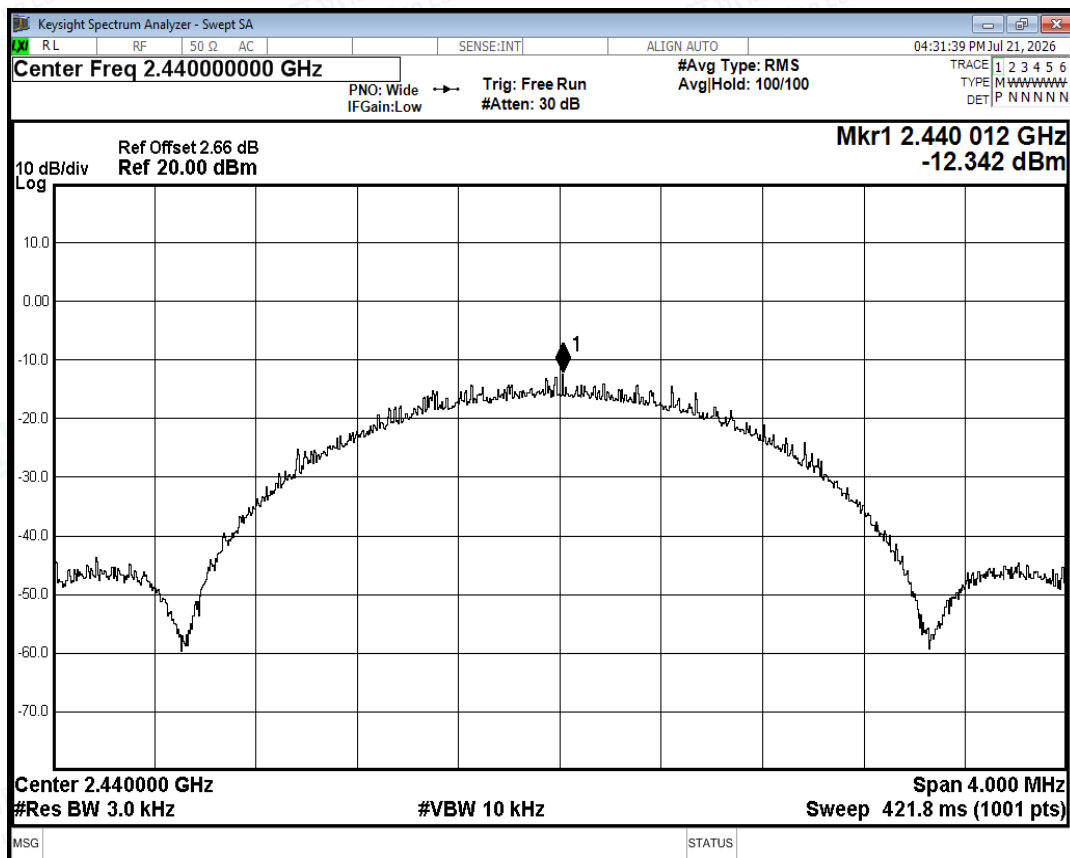
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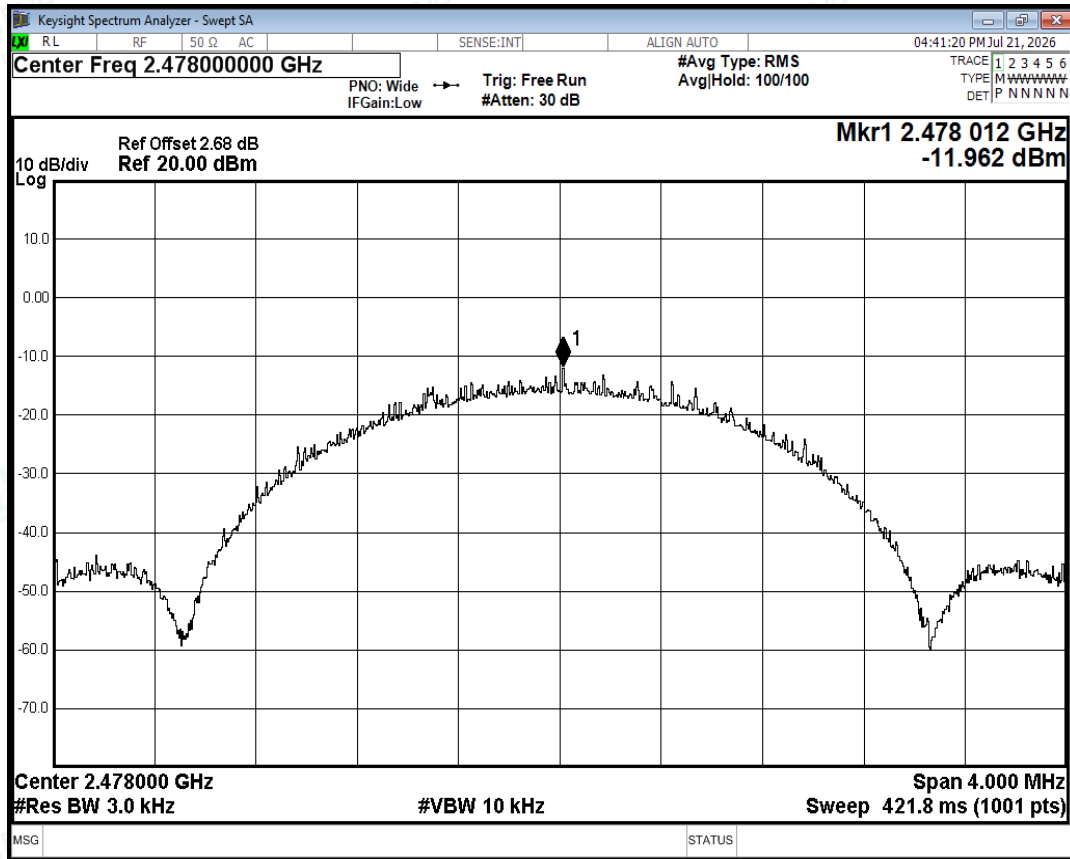
LCS-206016EA



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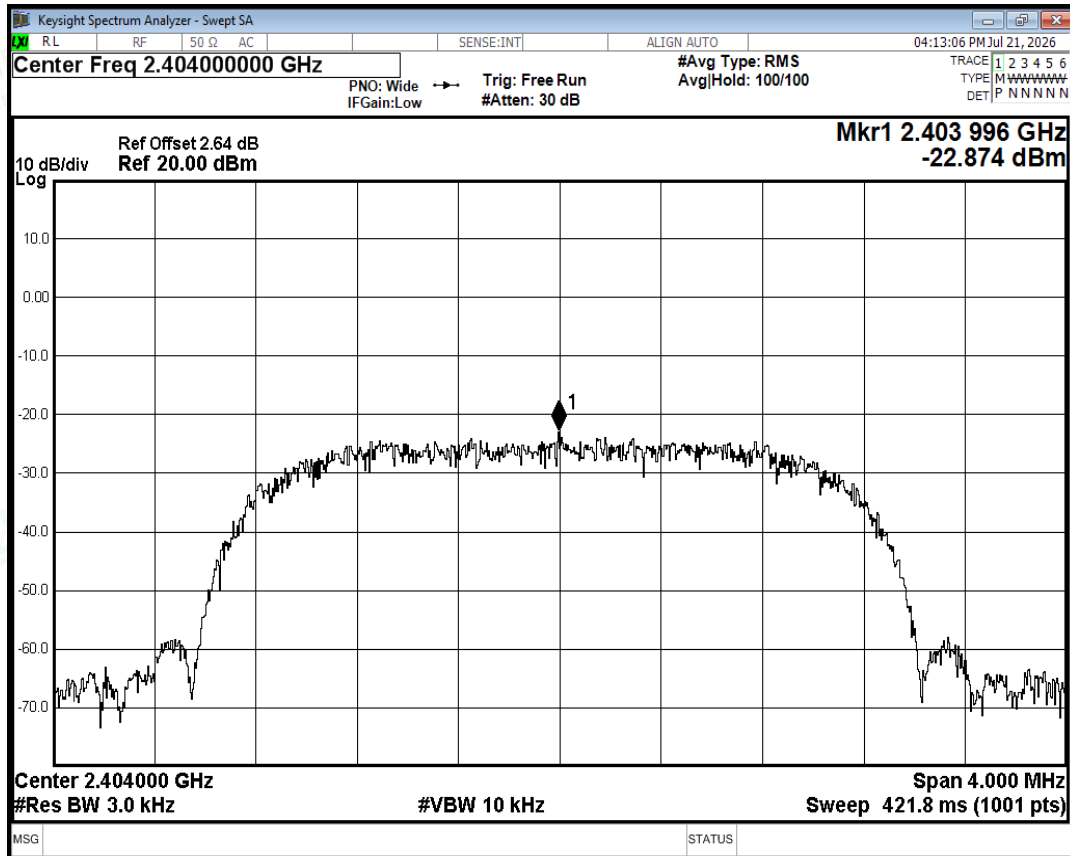
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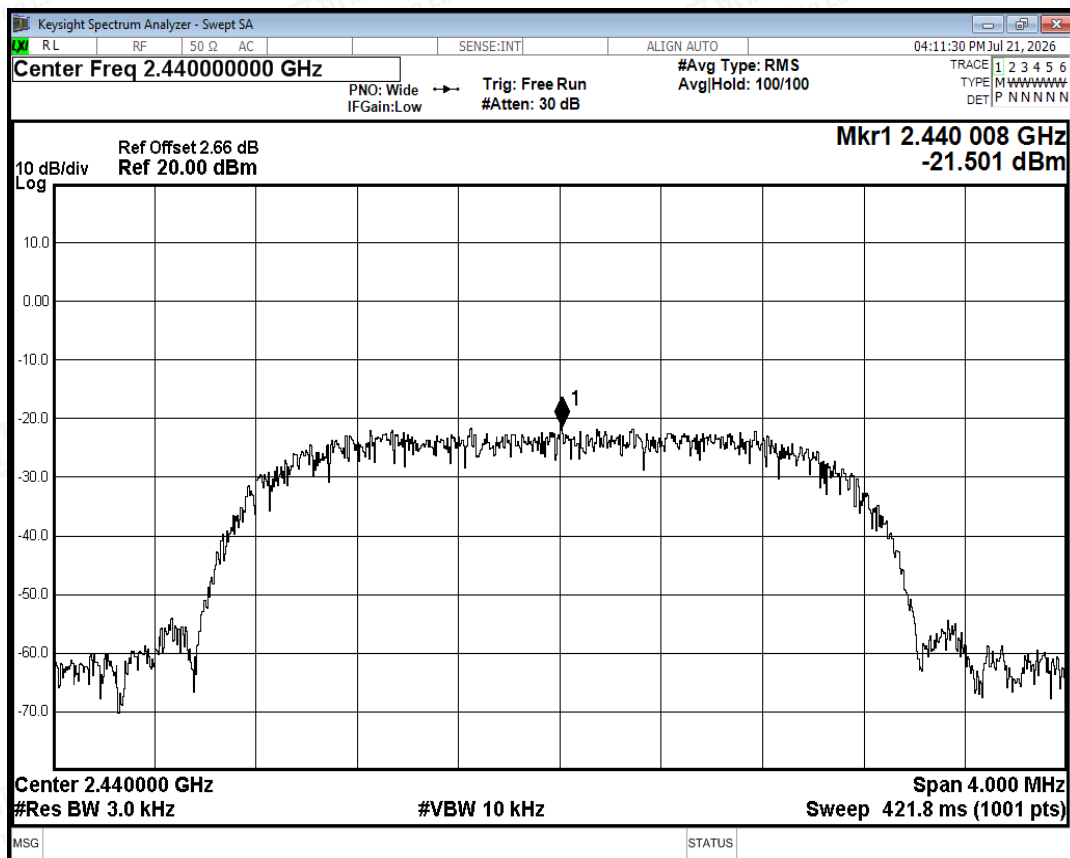
PSD NVNT 2.4G_2M_GFSK 2478MHz Ant1



LCS-206016EA



PSD NVNT 2.4G_2M_QPSK 2404MHz Ant1



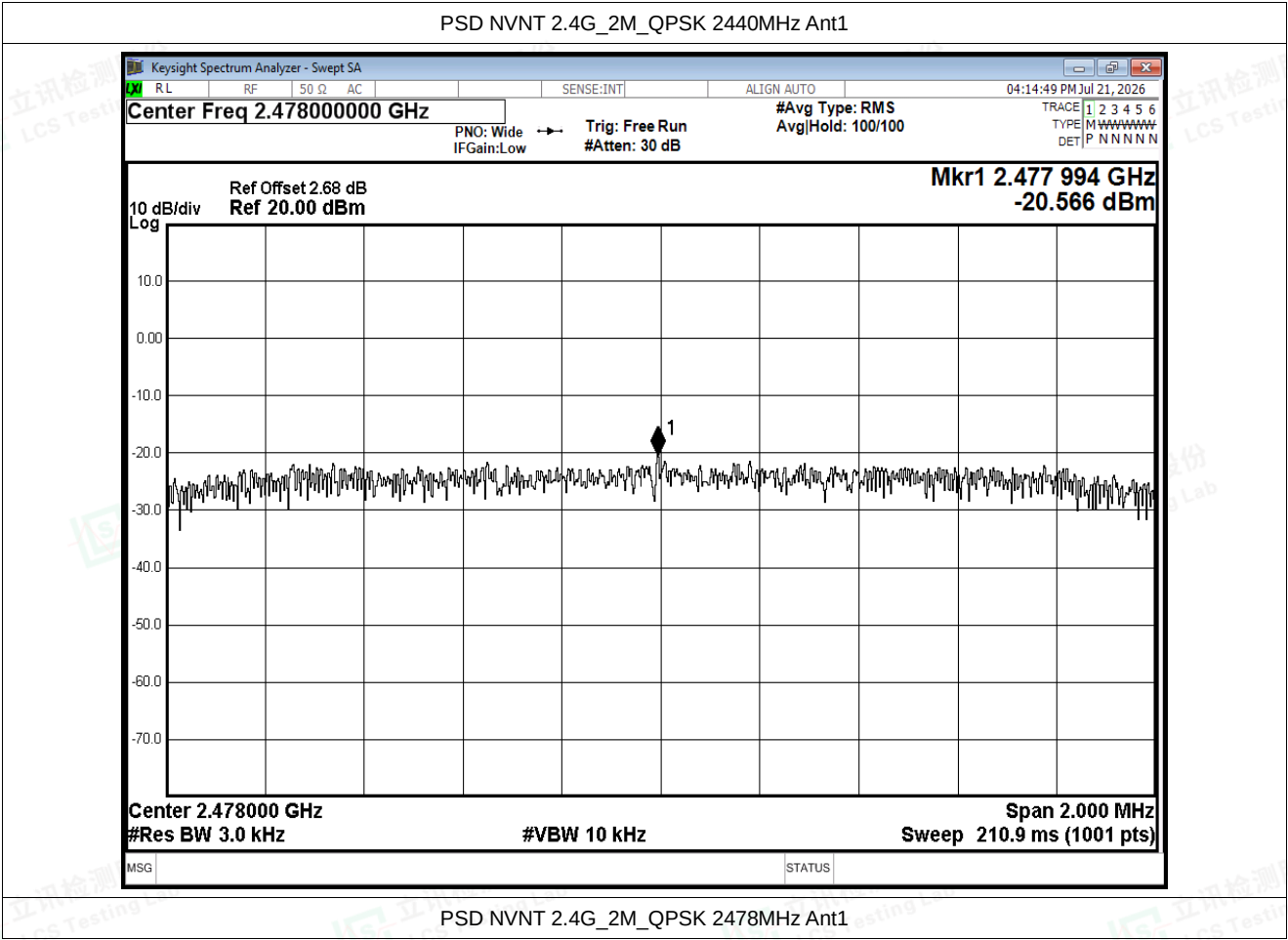
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Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

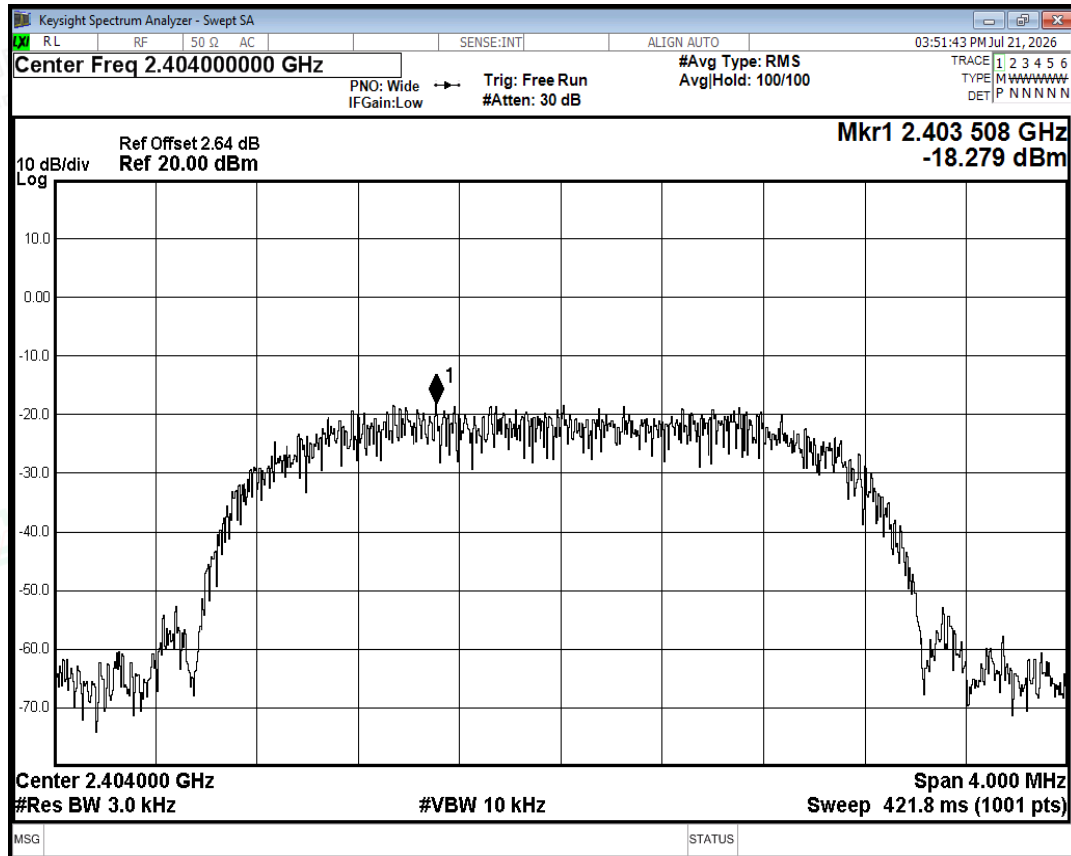


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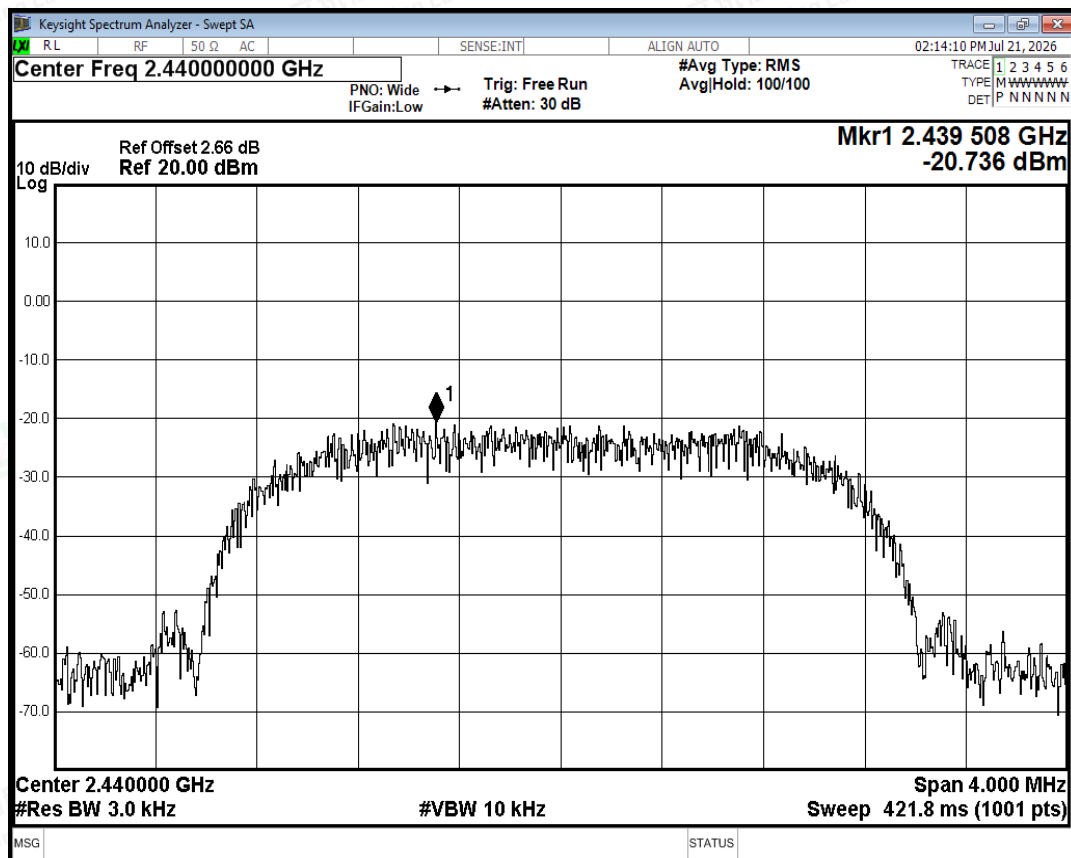




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PSD NVNT 2.4G_2M_8PSK 2404MHz Ant1



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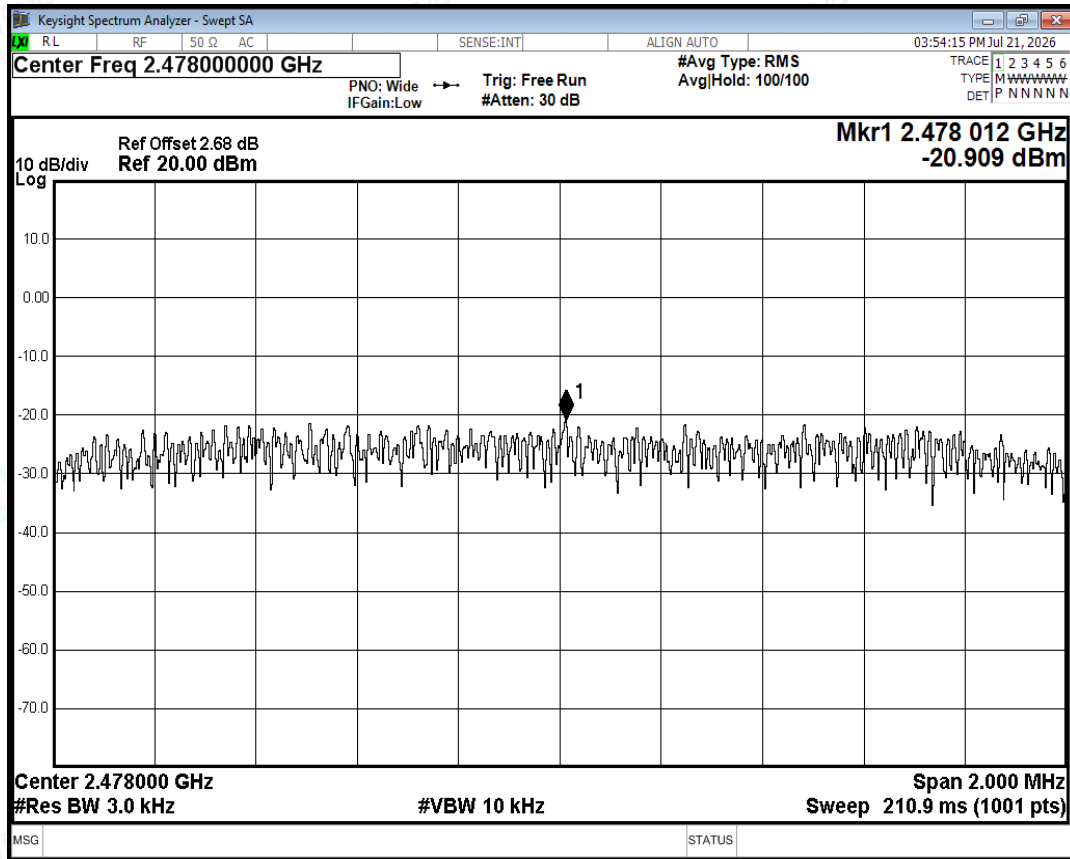
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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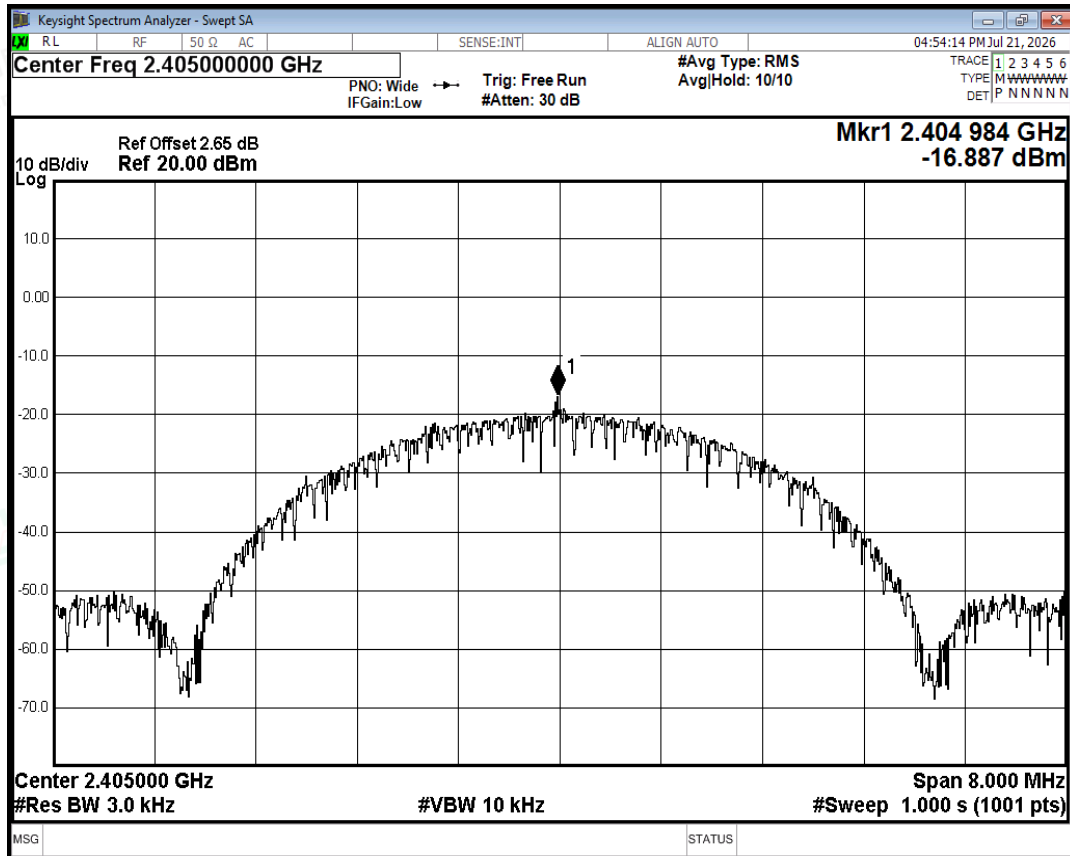


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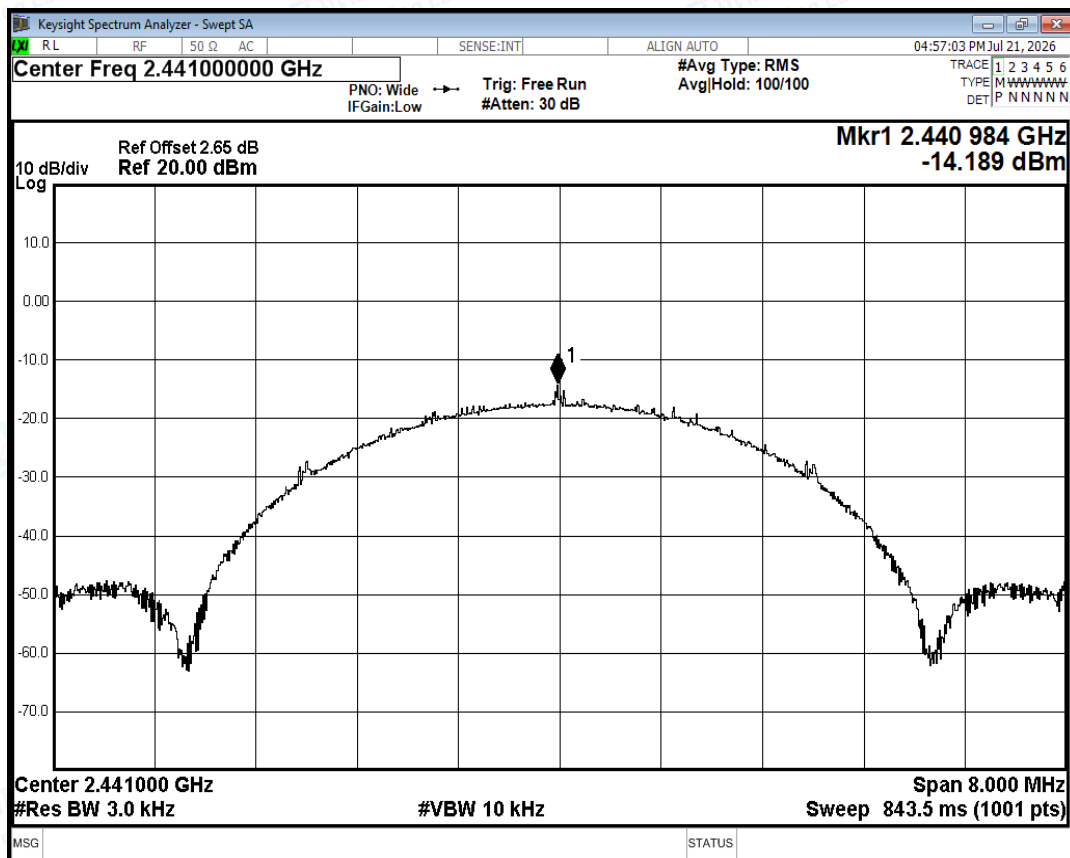
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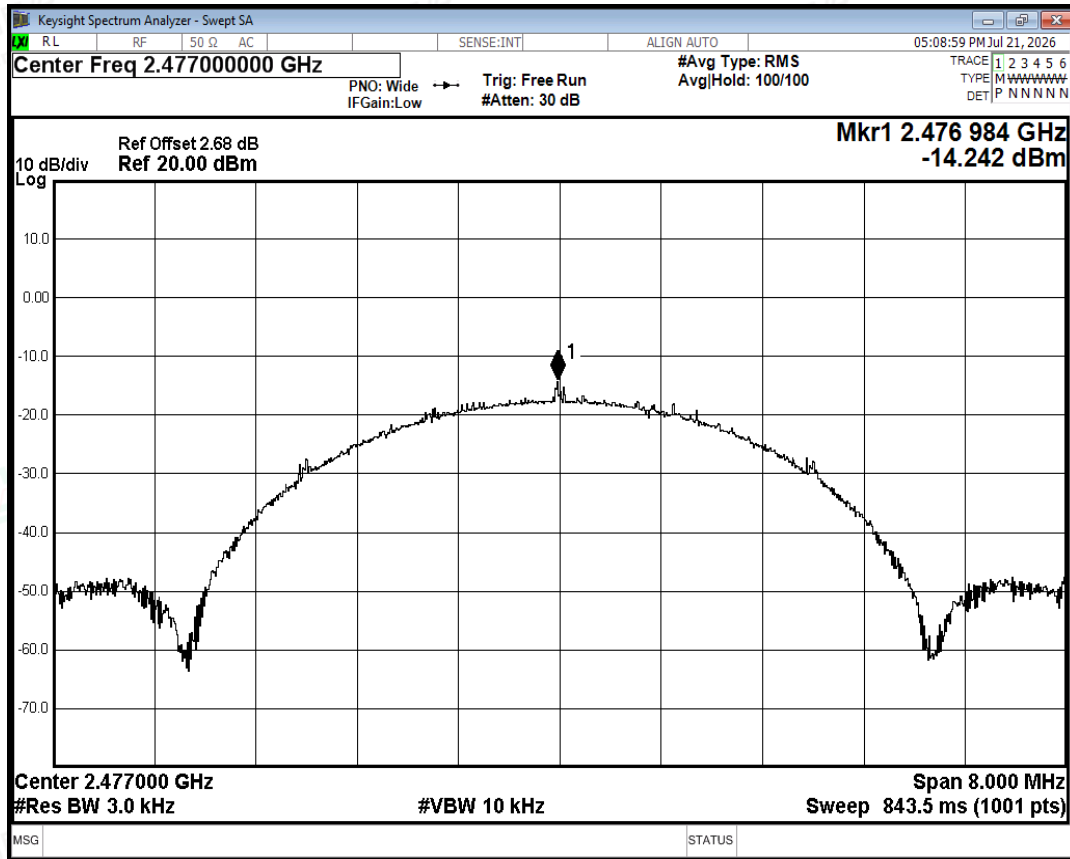
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LCS-202006016EA

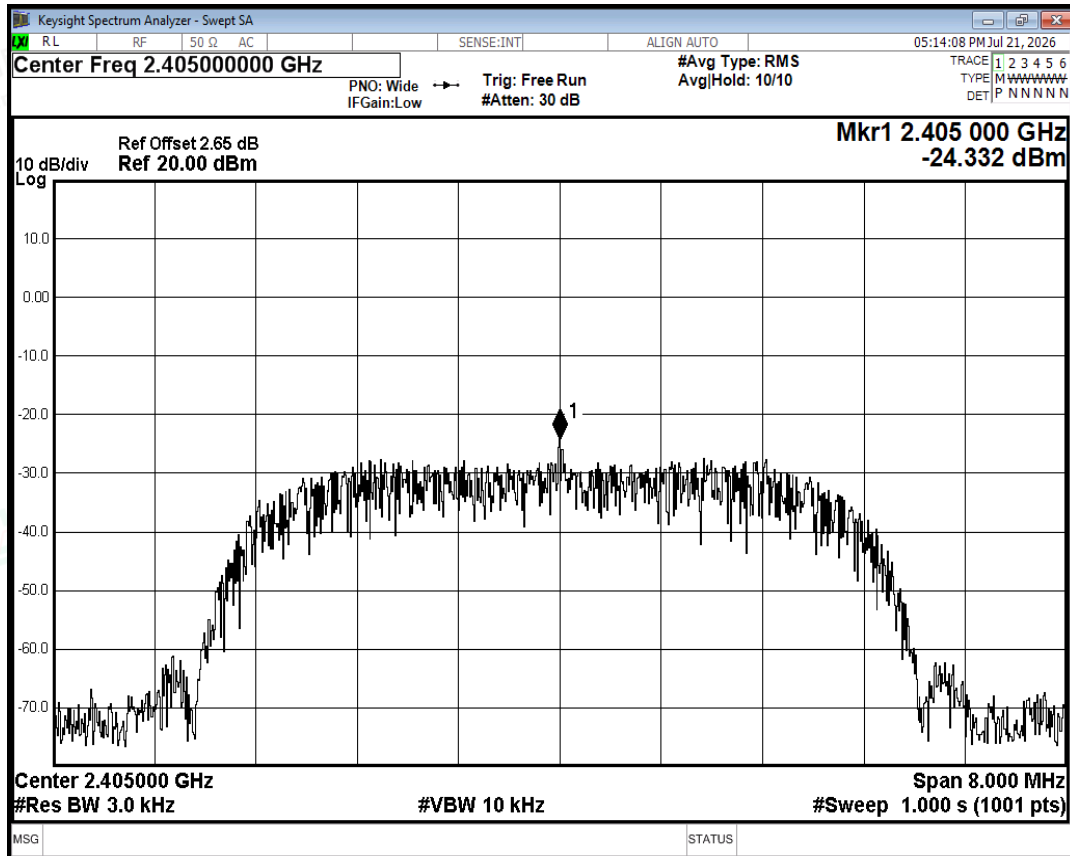
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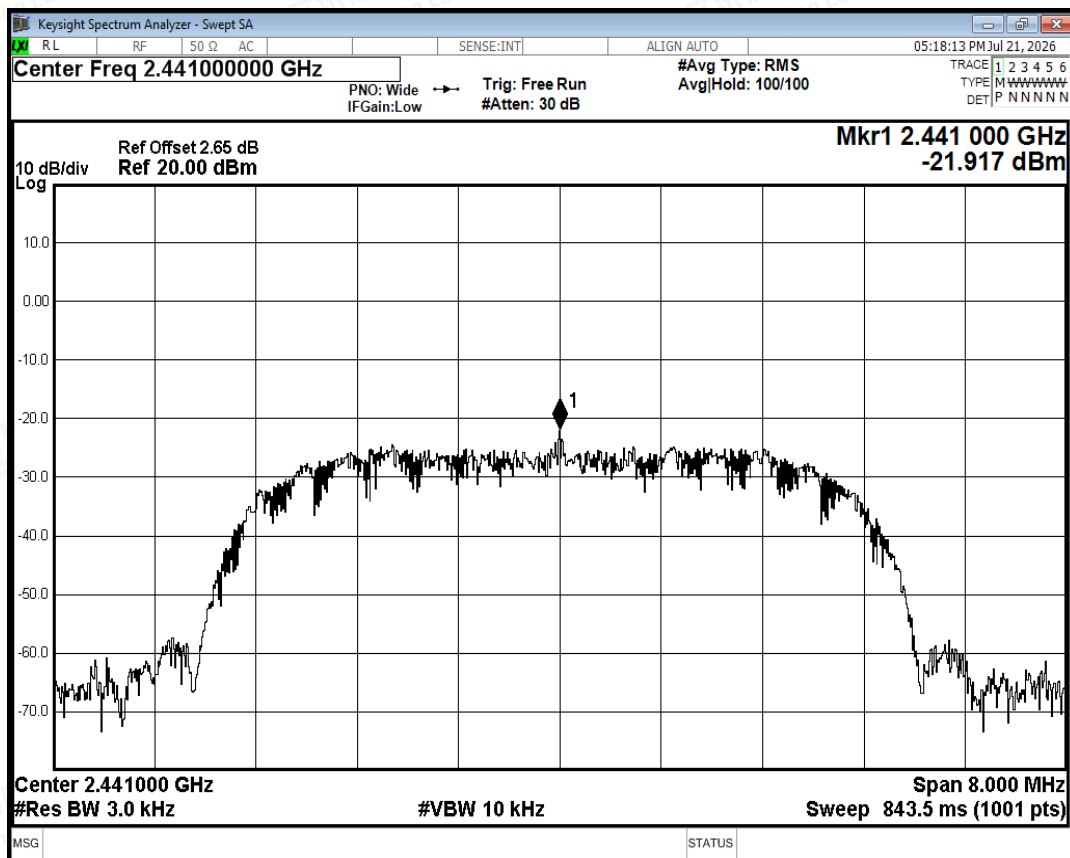
PSD NVNT 2.4G_4M_GFSK 2477MHz Ant1



LCS-206016EA



PSD NVNT 2.4G_4M_QPSK 2405MHz Ant1

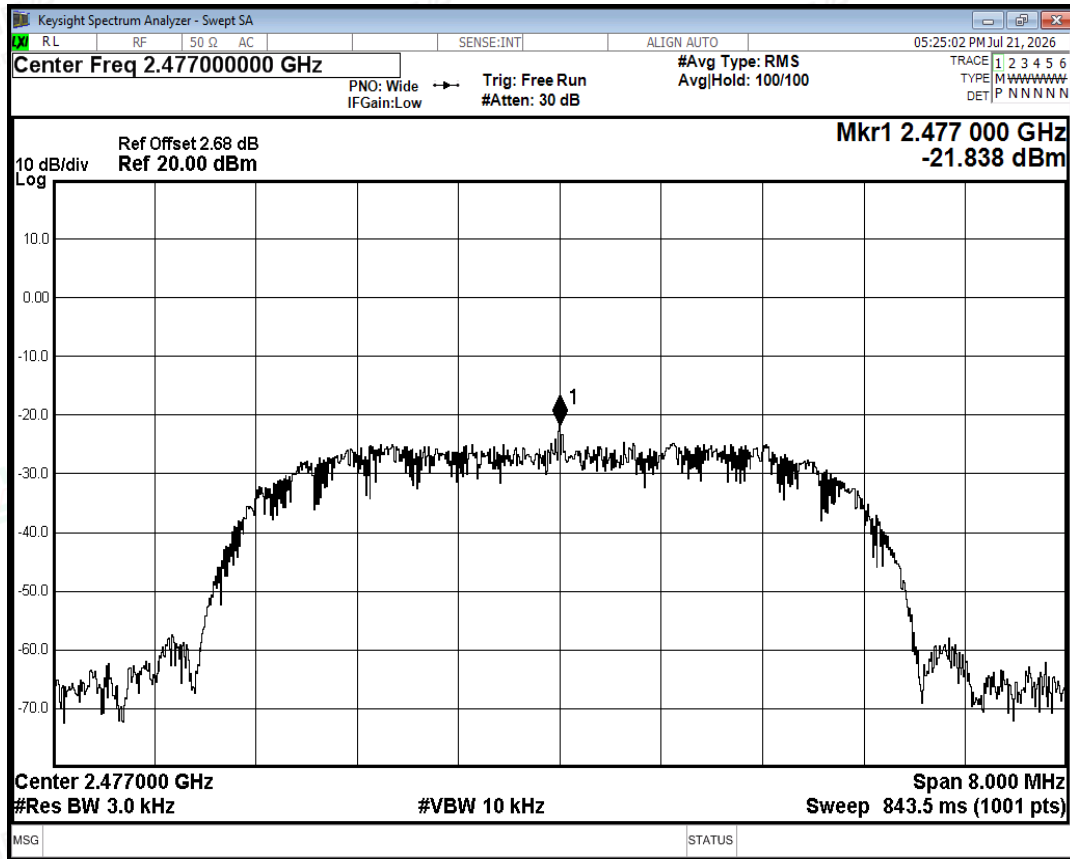


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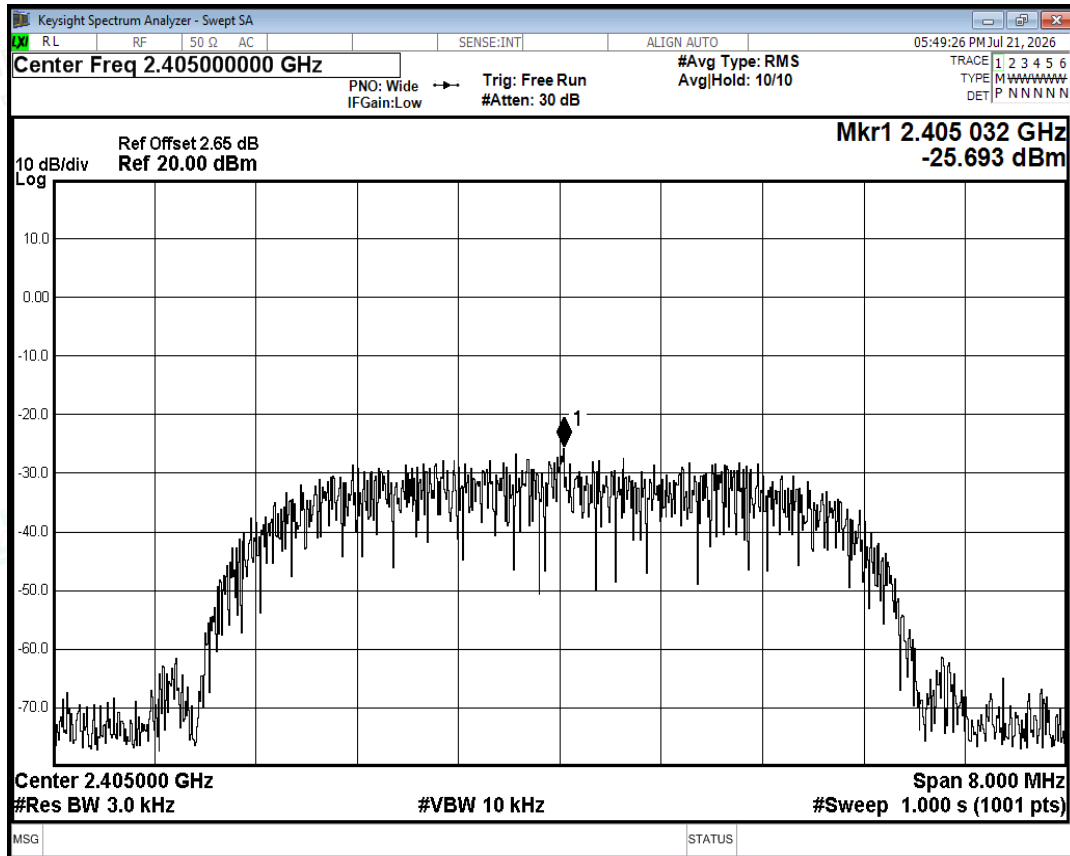
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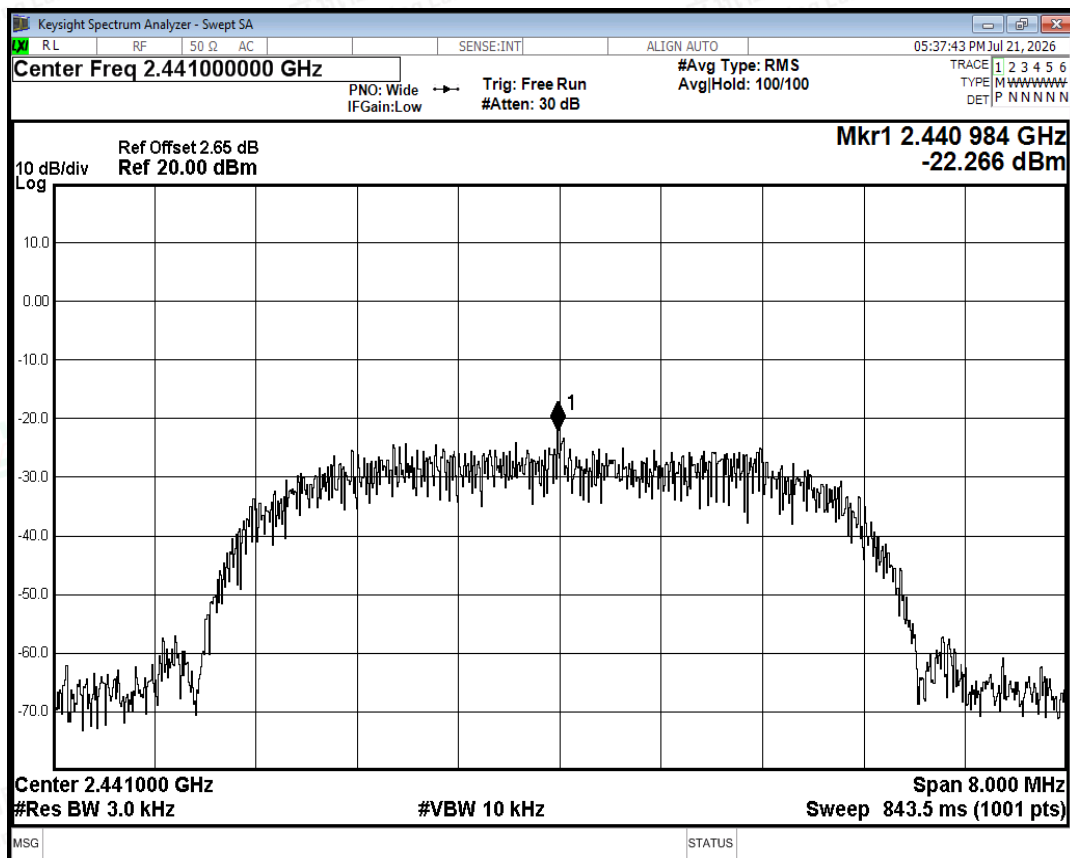
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LCS-206016EA



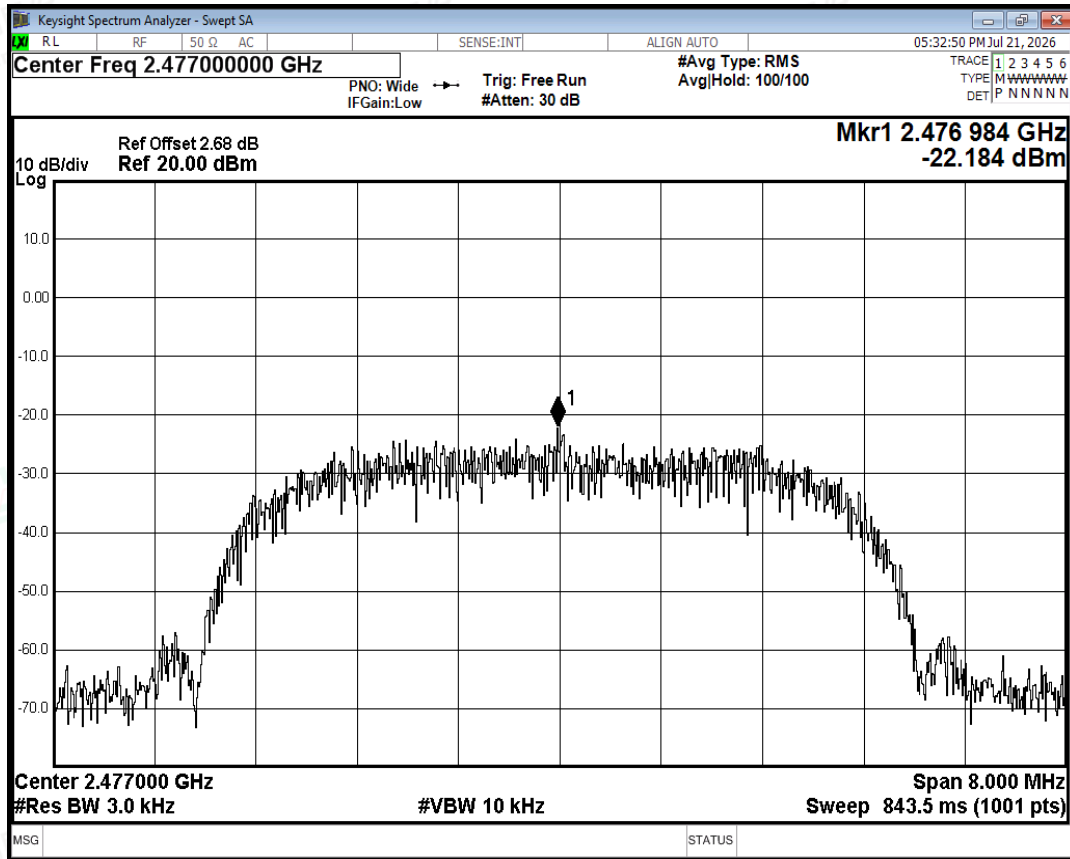
PSD NVNT 2.4G_4M_8PSK 2405MHz Ant1





LC-SAN-206016EA

PSD NVNT 2.4G_4M_8PSK 2441MHz Ant1



PSD NVNT 2.4G_4M_8PSK 2477MHz Ant1

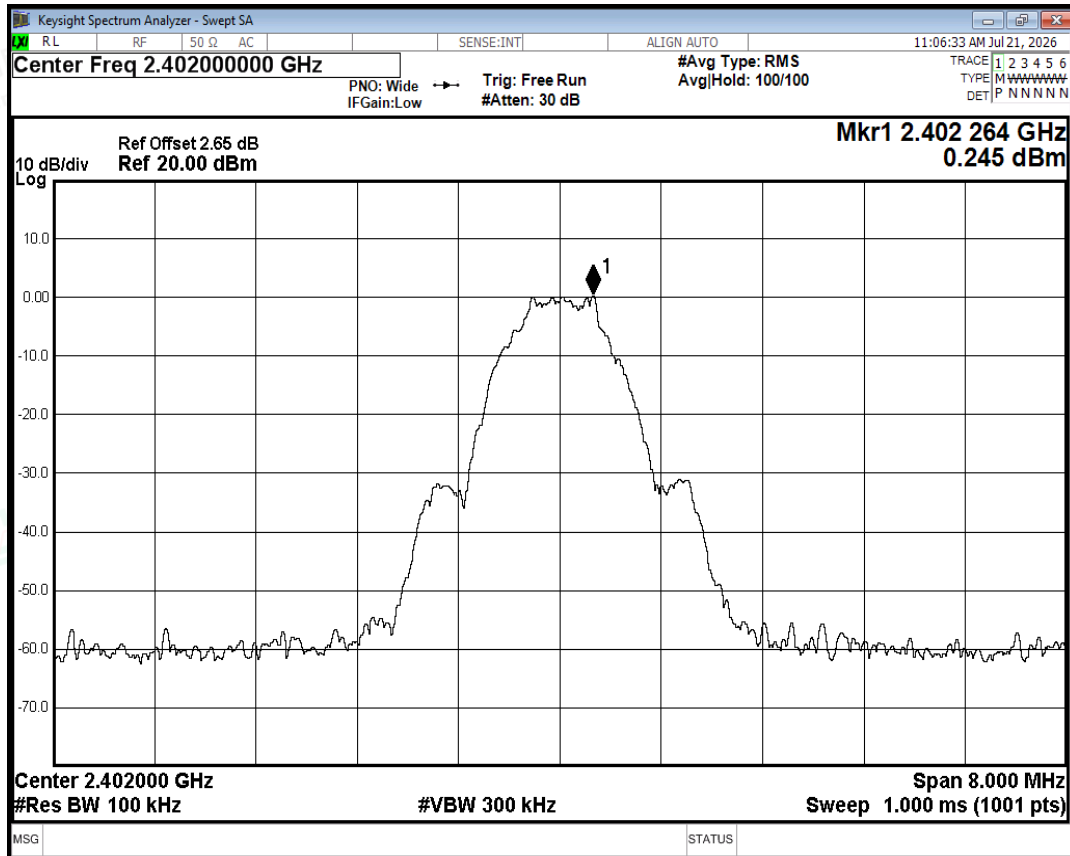


A.4 Band Edge

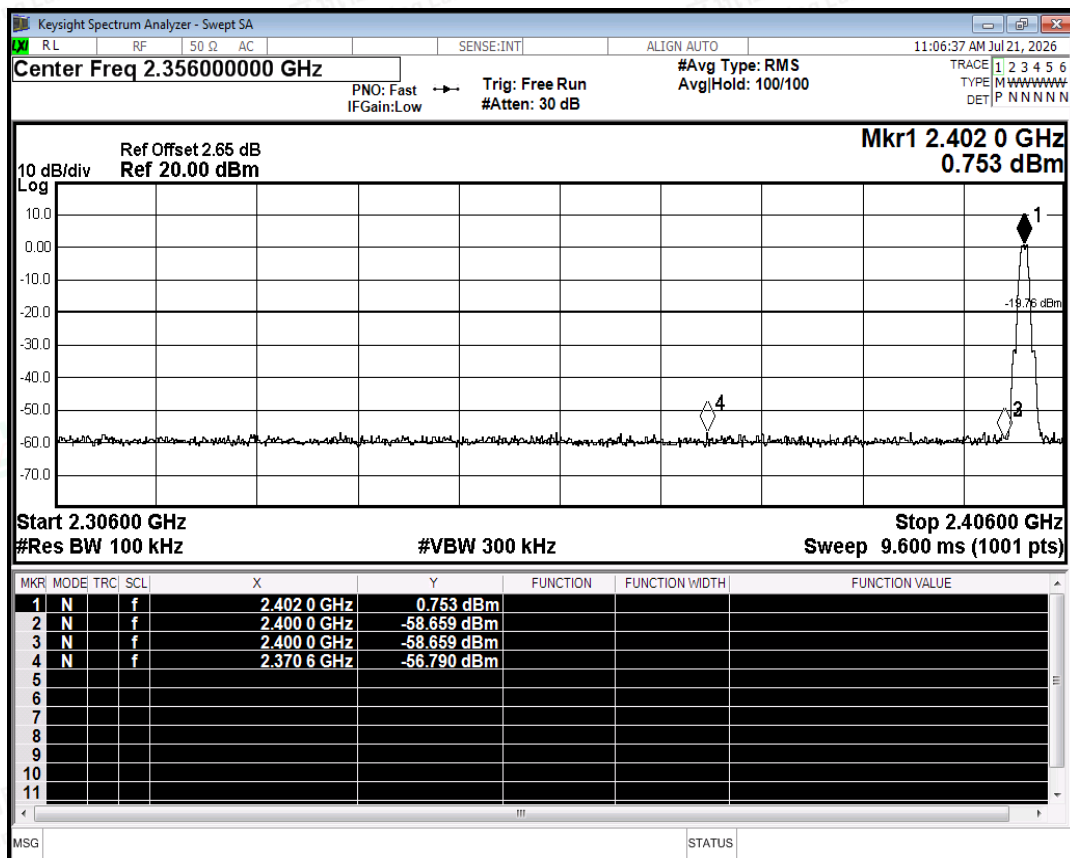
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	2.4G_1M_GFSK	2402	Ant1	-57.03	-20	Pass
NVNT	2.4G_1M_GFSK	2480	Ant1	-61.21	-20	Pass
NVNT	2.4G_1M_QPSK	2402	Ant1	-48.82	-20	Pass
NVNT	2.4G_1M_QPSK	2480	Ant1	-50.73	-20	Pass
NVNT	2.4G_1M_8PSK	2402	Ant1	-47.72	-20	Pass
NVNT	2.4G_1M_8PSK	2480	Ant1	-53.16	-20	Pass
NVNT	2.4G_2M_GFSK	2404	Ant1	-58.21	-20	Pass
NVNT	2.4G_2M_GFSK	2478	Ant1	-61.51	-20	Pass
NVNT	2.4G_2M_QPSK	2404	Ant1	-49.01	-20	Pass
NVNT	2.4G_2M_QPSK	2478	Ant1	-51.04	-20	Pass
NVNT	2.4G_2M_8PSK	2404	Ant1	-53.58	-20	Pass
NVNT	2.4G_2M_8PSK	2478	Ant1	-49.91	-20	Pass
NVNT	2.4G_4M_GFSK	2405	Ant1	-50.18	-20	Pass
NVNT	2.4G_4M_GFSK	2477	Ant1	-57.71	-20	Pass
NVNT	2.4G_4M_QPSK	2405	Ant1	-42.76	-20	Pass
NVNT	2.4G_4M_QPSK	2477	Ant1	-49.19	-20	Pass
NVNT	2.4G_4M_8PSK	2405	Ant1	-41.92	-20	Pass
NVNT	2.4G_4M_8PSK	2477	Ant1	-55.3	-20	Pass



LCS-206016EA



Band Edge NVNT 2.4G_1M_GFSK 2402MHz Ant1 Ref

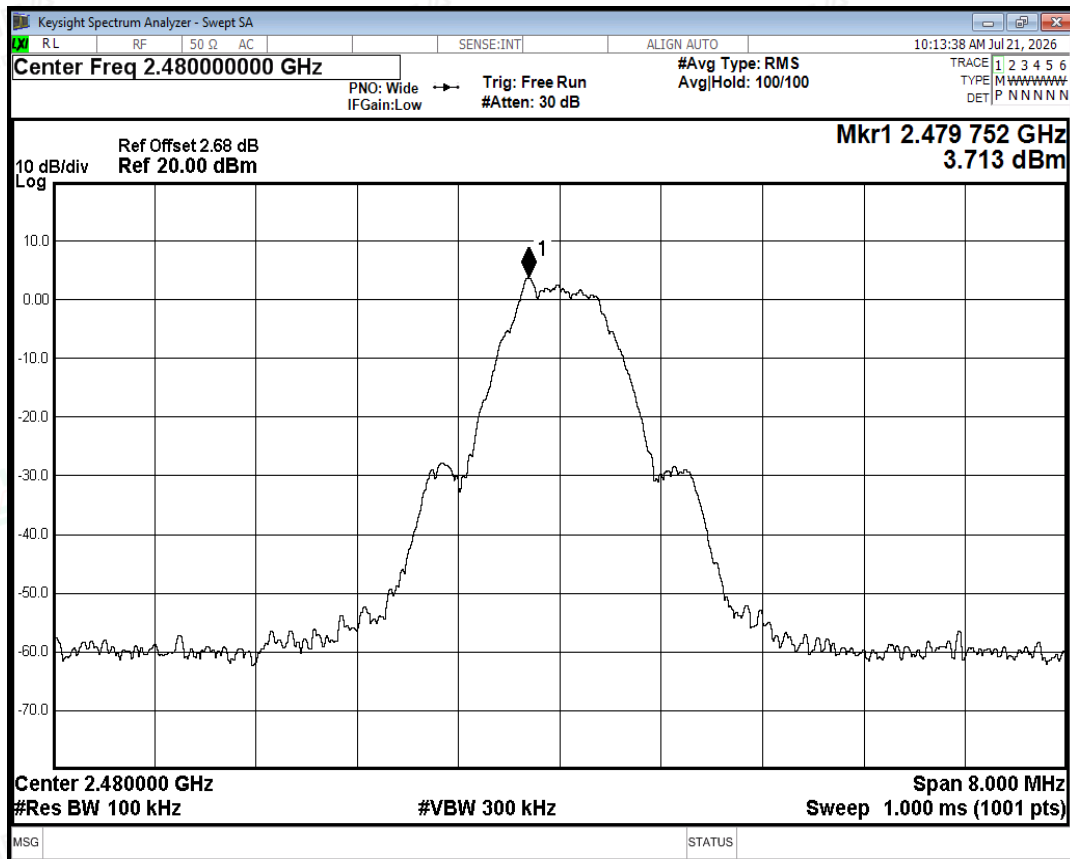


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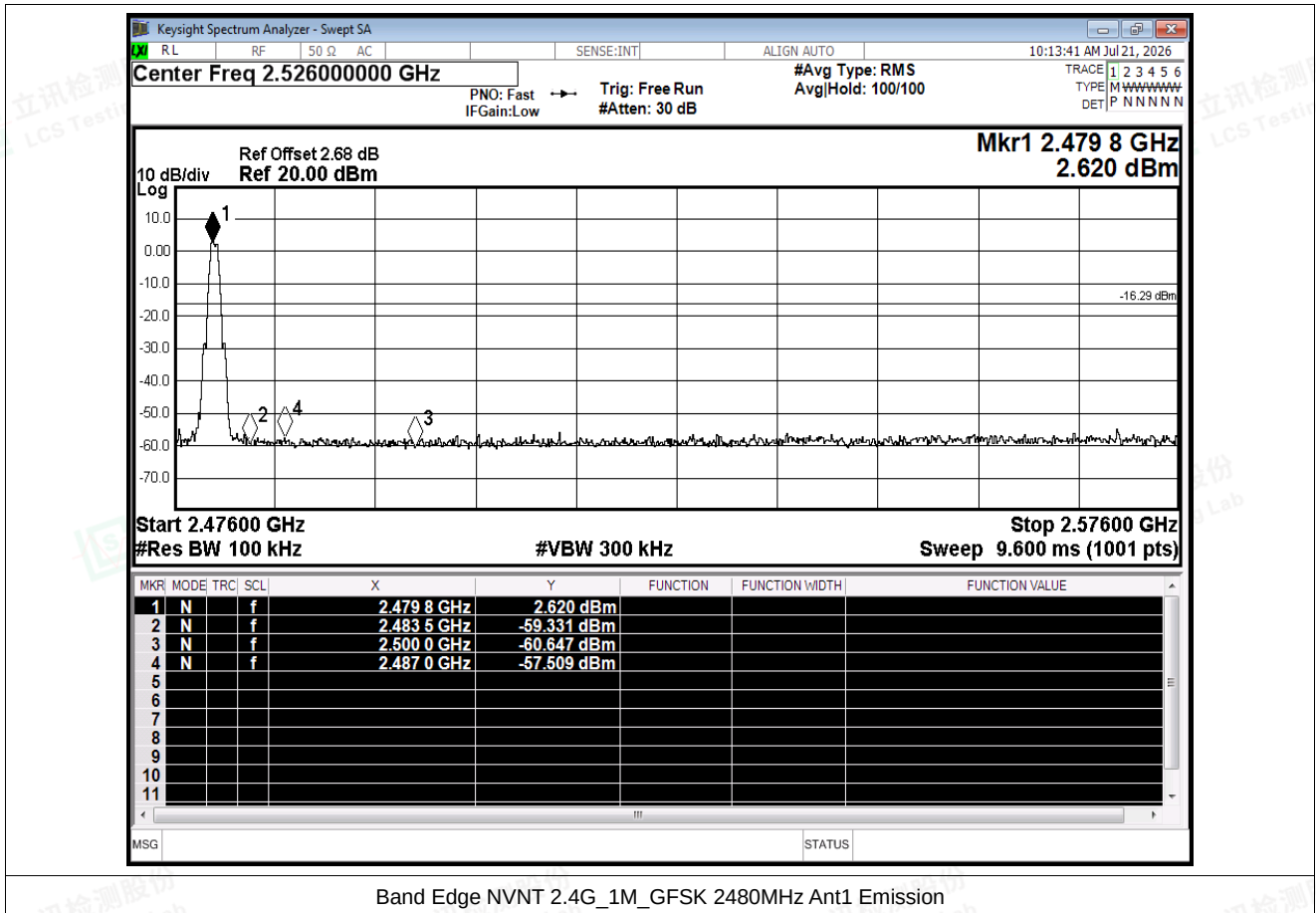
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

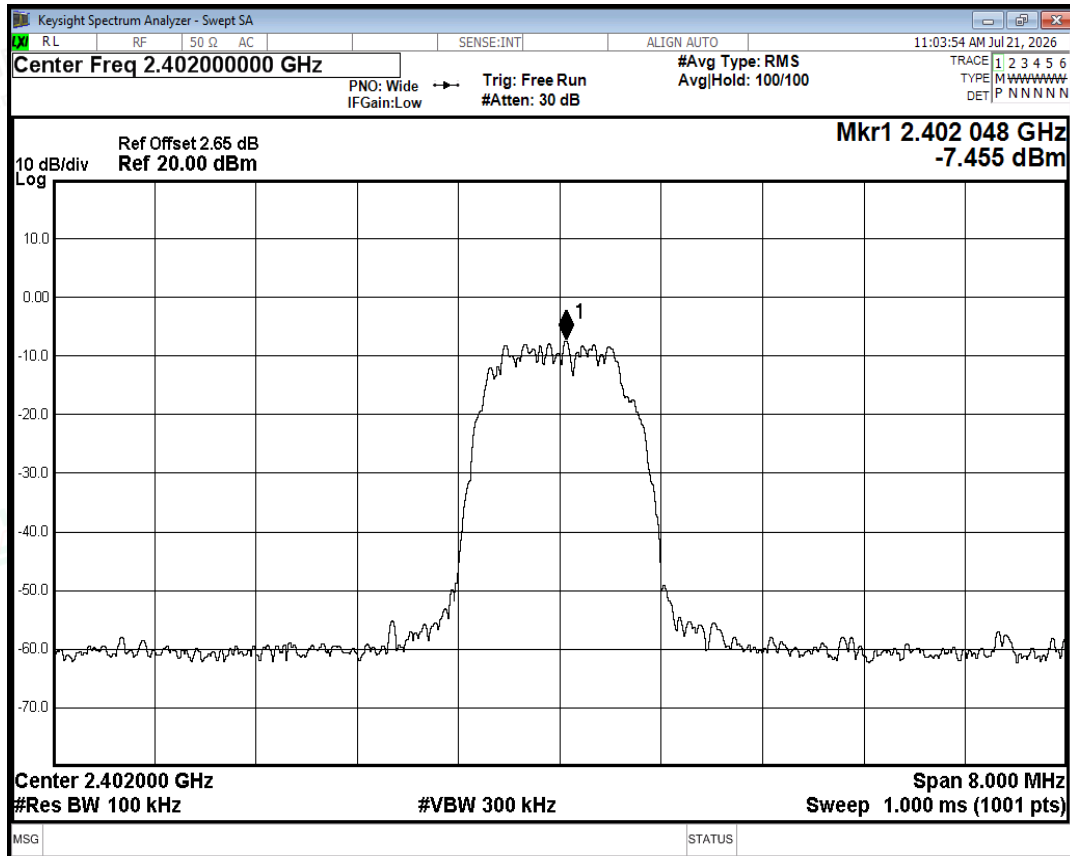
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Band Edge NVNT 2.4G_1M_GFSK 2402MHz Ant1 Emission

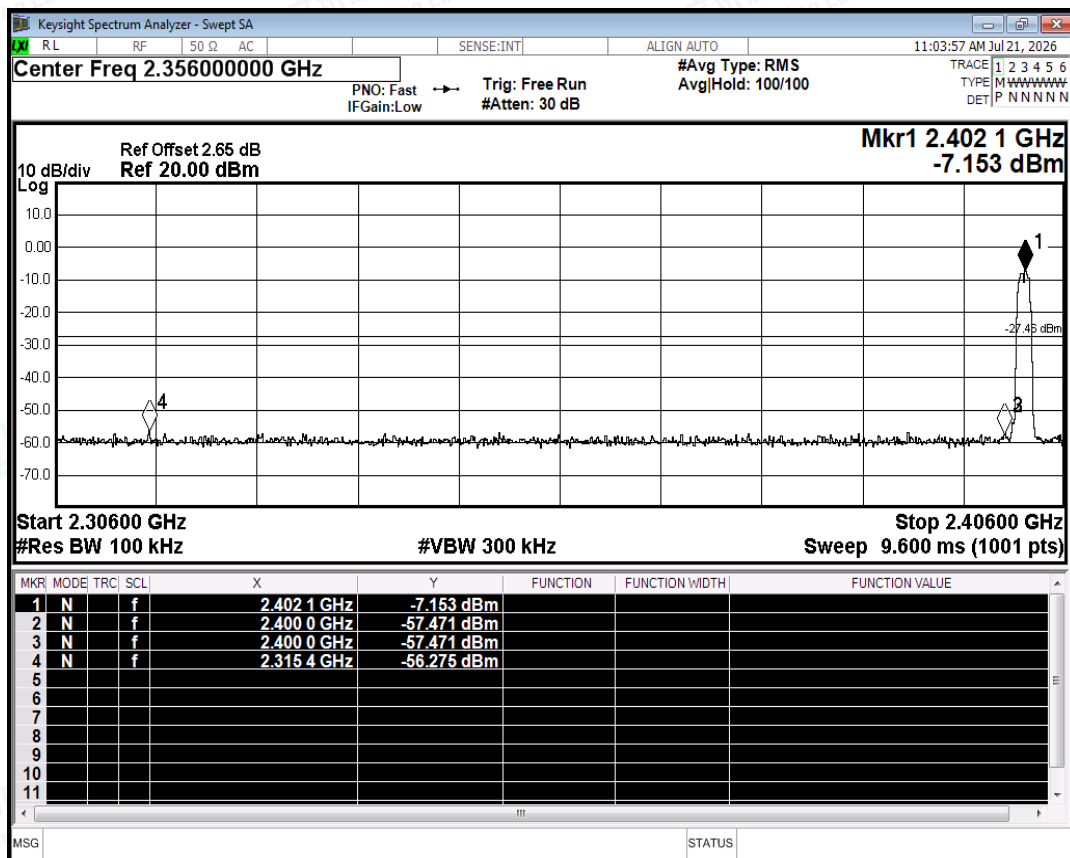


Band Edge NVNT 2.4G_1M_GFSK 2480MHz Ant1 Ref

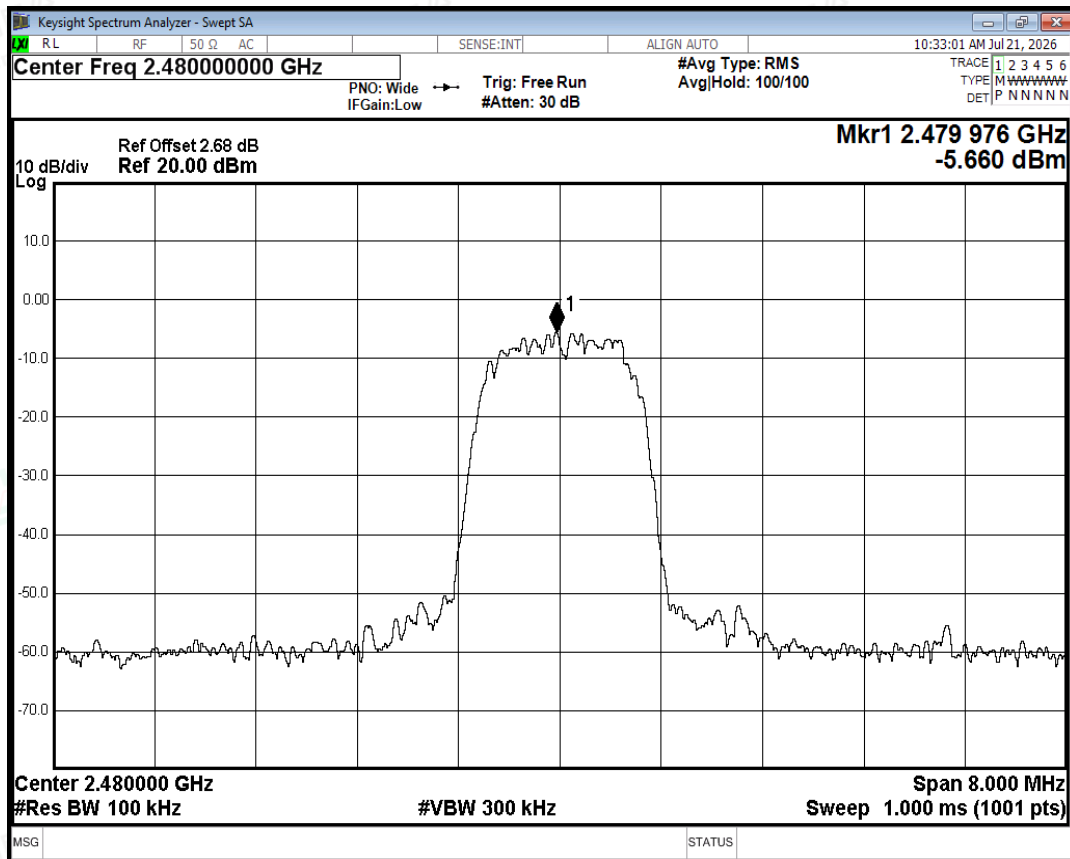




Band Edge NVNT 2.4G_1M_QPSK 2402MHz Ant1 Ref



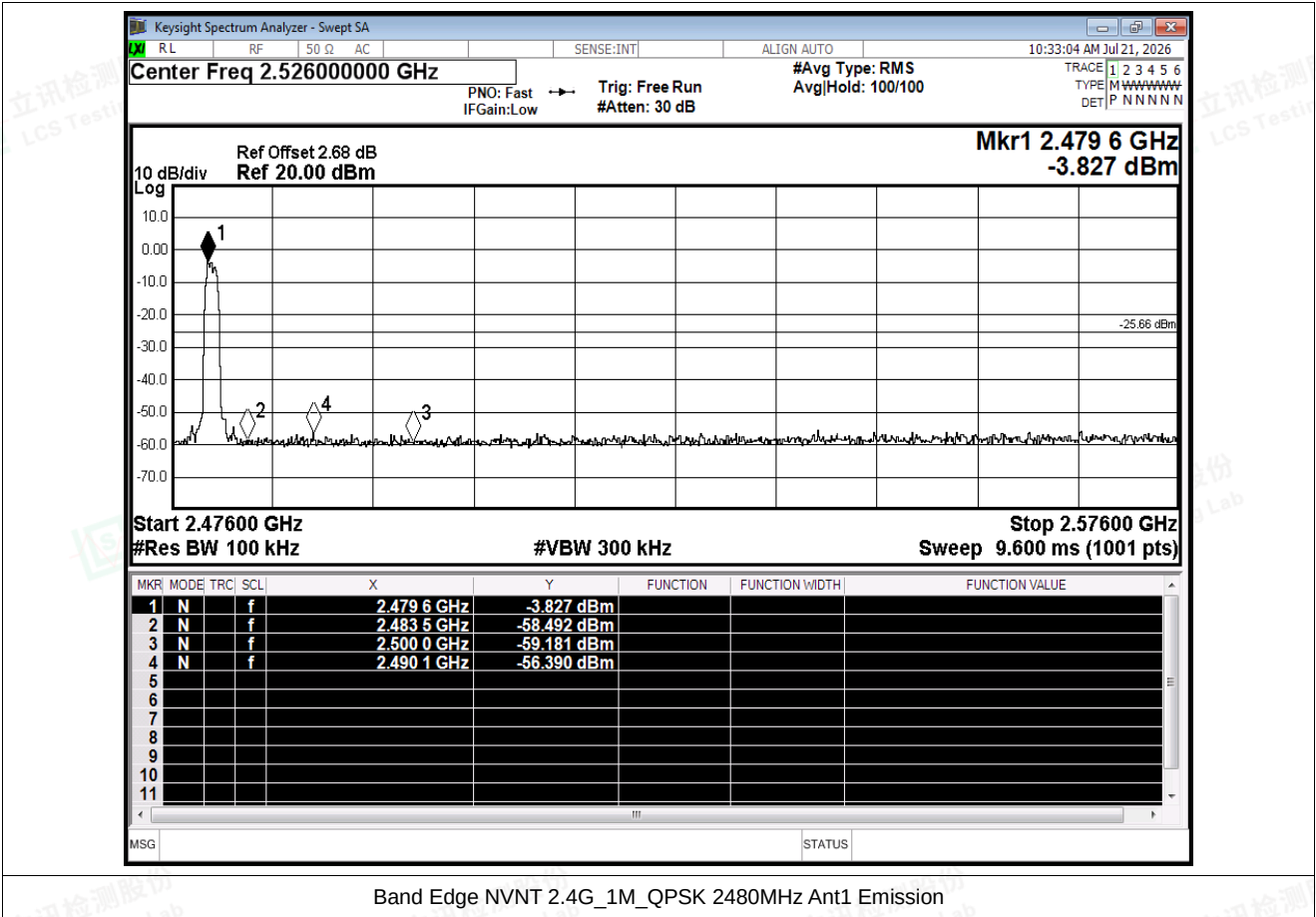
Band Edge NVNT 2.4G_1M_QPSK 2402MHz Ant1 Emission



Band Edge NVNT 2.4G_1M_QPSK 2480MHz Ant1 Ref

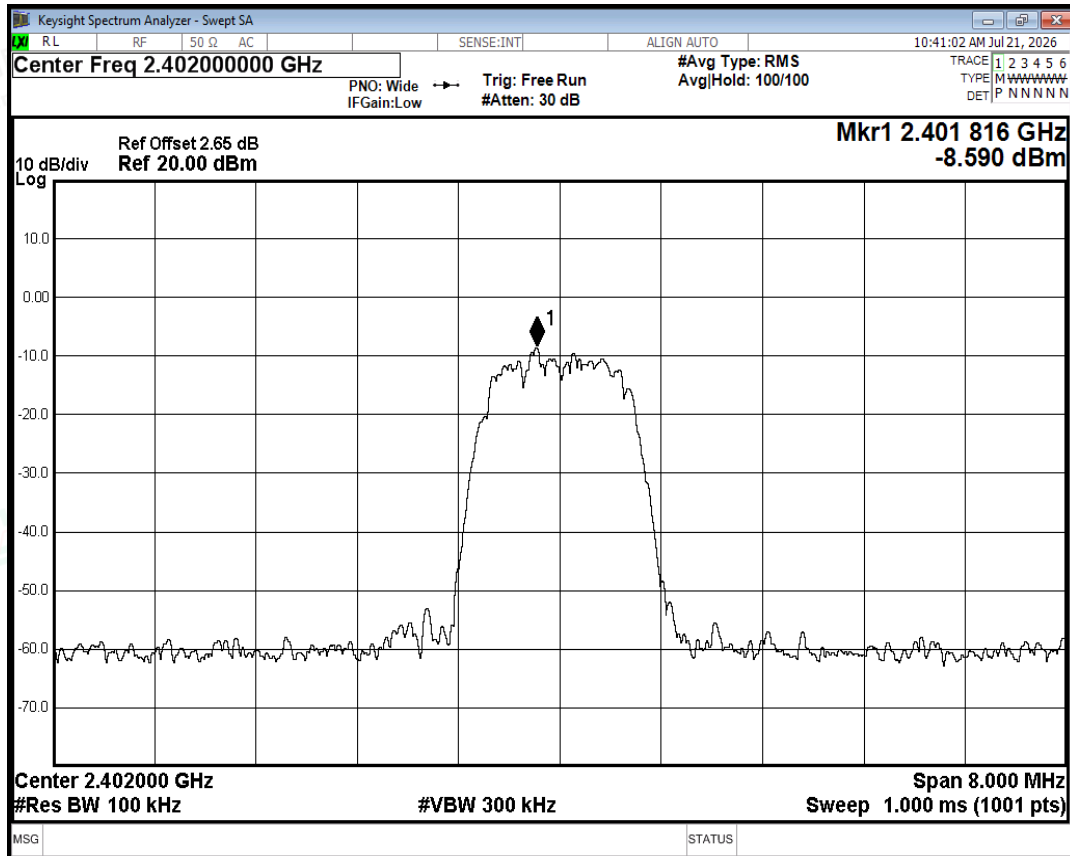


LCS-206016EA

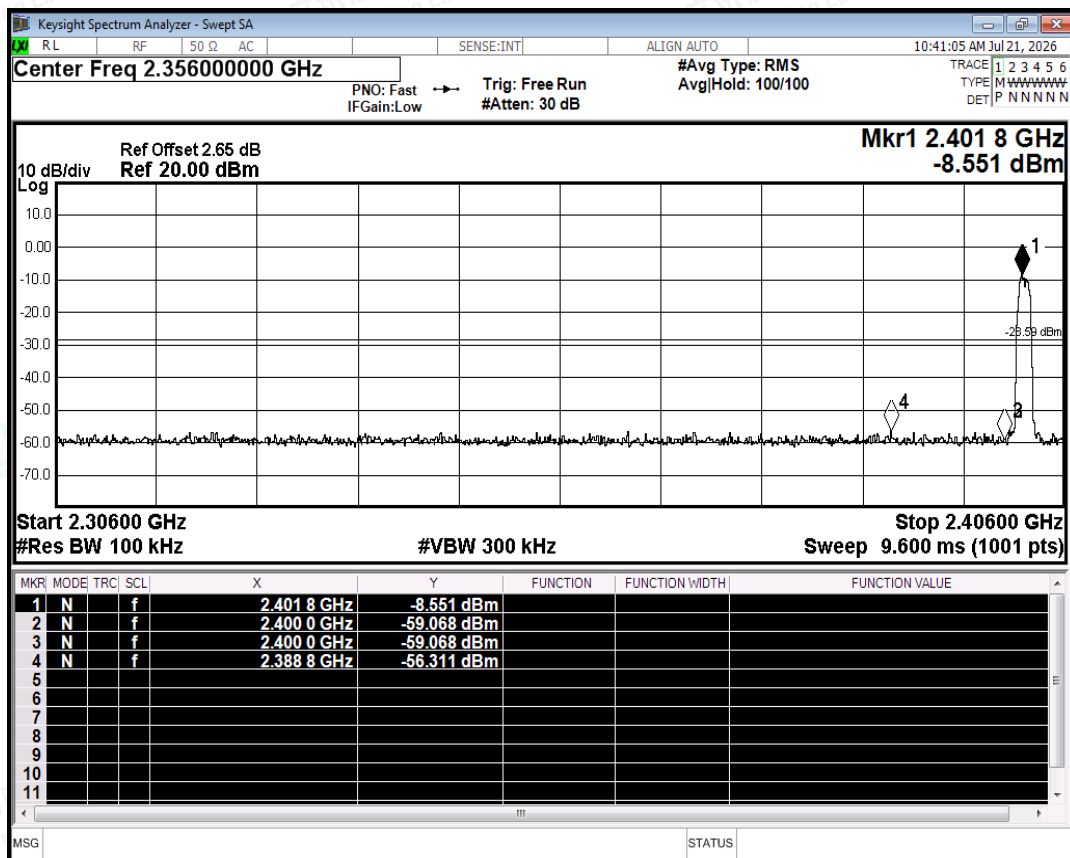




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Band Edge NVNT 2.4G_1M_8PSK 2402MHz Ant1 Ref



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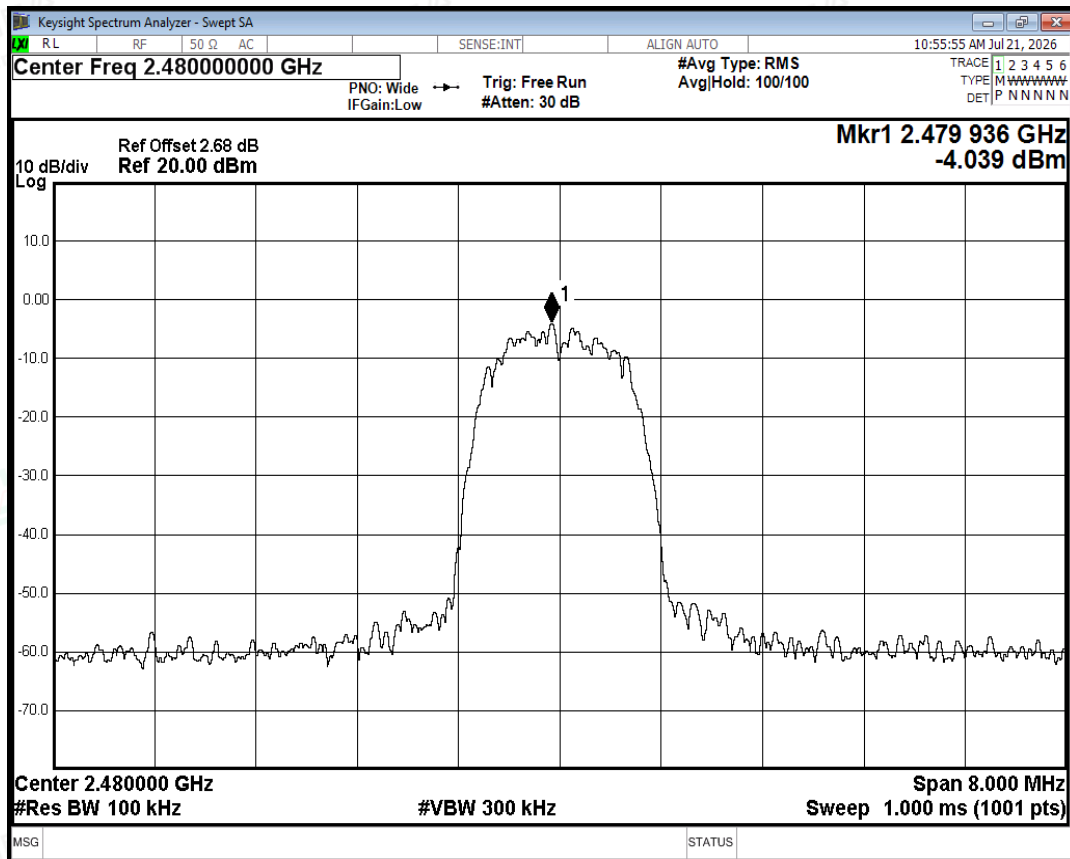
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Band Edge NVNT 2.4G_1M_8PSK 2402MHz Ant1 Emission



Band Edge NVNT 2.4G_1M_8PSK 2480MHz Ant1 Ref