



Appendix B

RF Test Data for 2.4GWIFI (Conducted Measurement)

Product Name: Orphek OR4 iCon LED Bars

Test Model: OR4 180 iCon

Environmental Conditions

Temperature:	23.9°C
Relative Humidity:	52.4%
ATM Pressure:	100.0 kPa
Test Engineer:	Jerry Chu
Supervised by:	Can Kun



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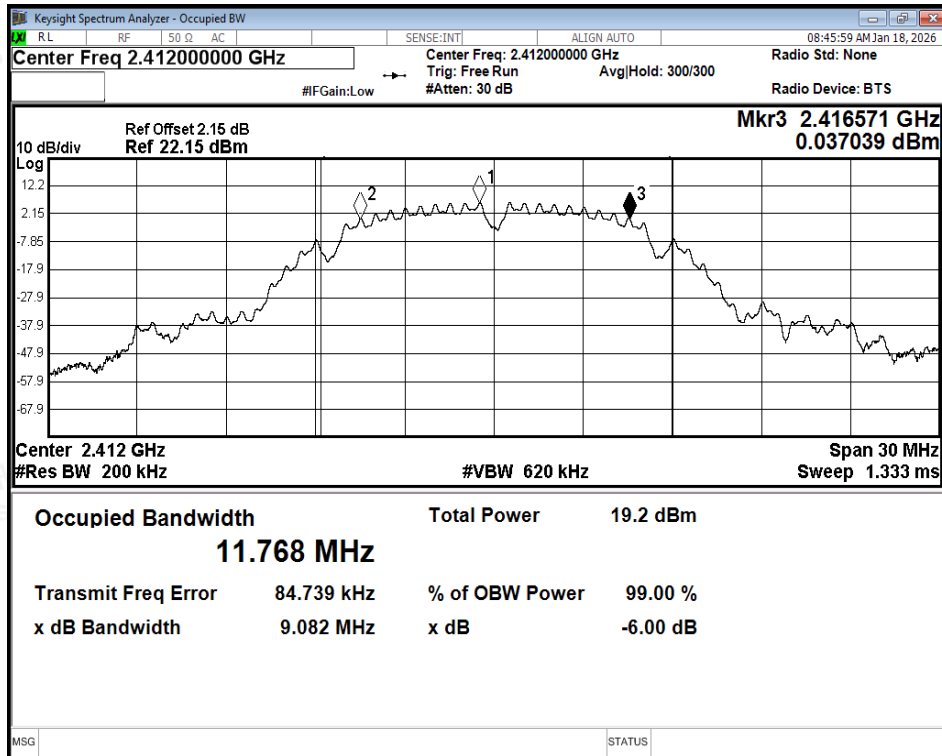
B.1 -6dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	b	2412	Ant1	9.082	0.5	Pass
NVNT	b	2437	Ant1	9.102	0.5	Pass
NVNT	b	2462	Ant1	9.106	0.5	Pass
NVNT	g	2412	Ant1	16.27	0.5	Pass
NVNT	g	2437	Ant1	16.33	0.5	Pass
NVNT	g	2462	Ant1	16.34	0.5	Pass
NVNT	n20	2412	Ant1	17.13	0.5	Pass
NVNT	n20	2437	Ant1	17.21	0.5	Pass
NVNT	n20	2462	Ant1	17.32	0.5	Pass

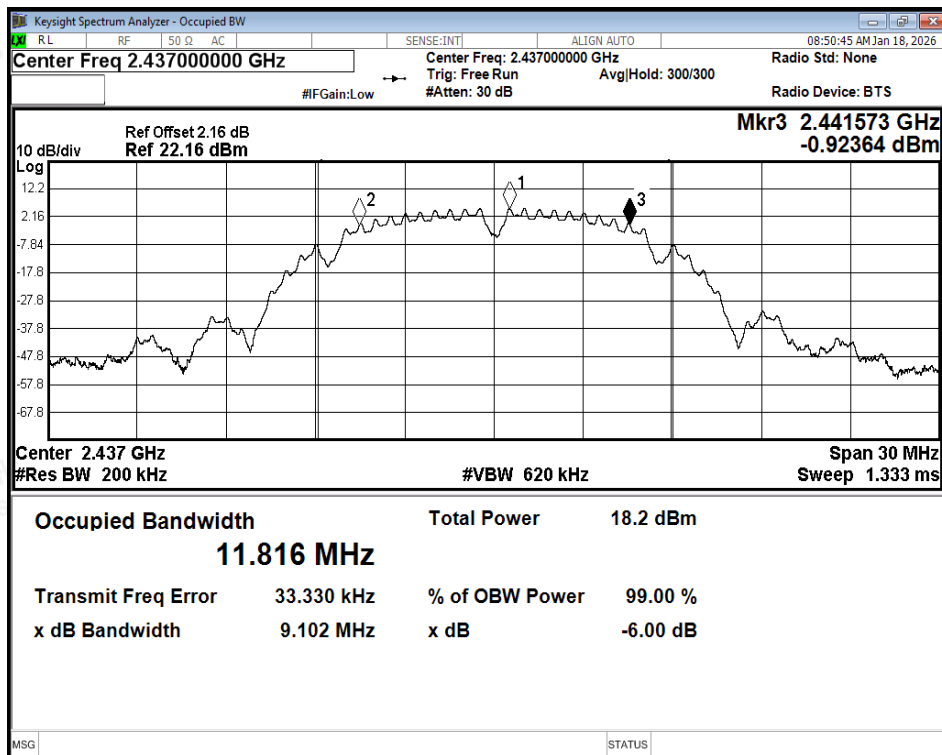
Note: offset=System attenuation +cabal loss



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-6dB Bandwidth NVNT b 2412MHz Ant1



-6dB Bandwidth NVNT b 2437MHz Ant1

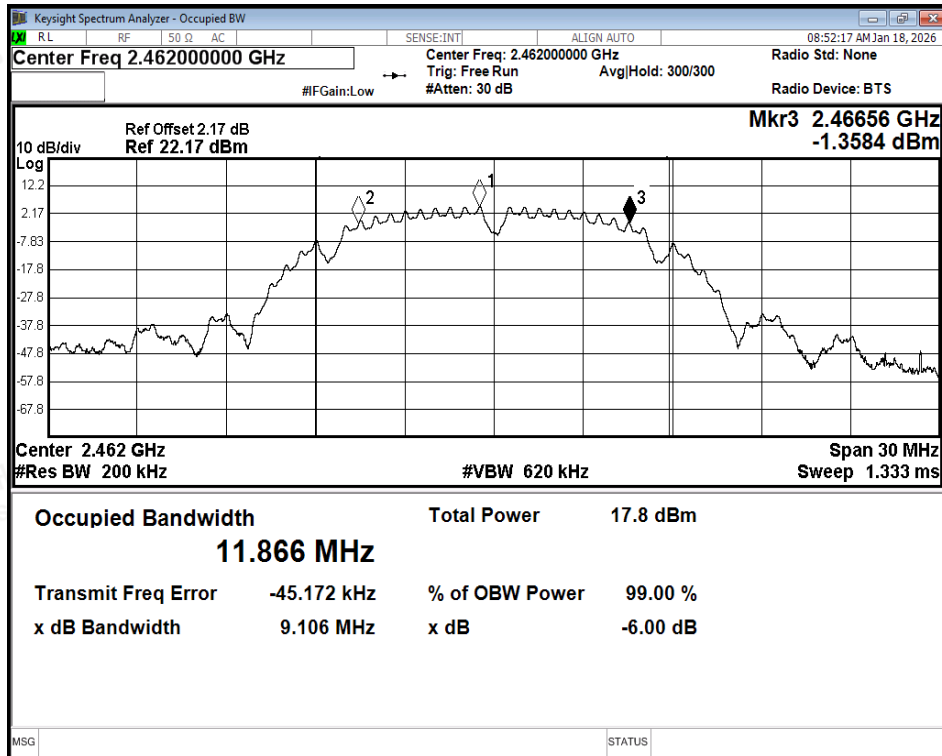


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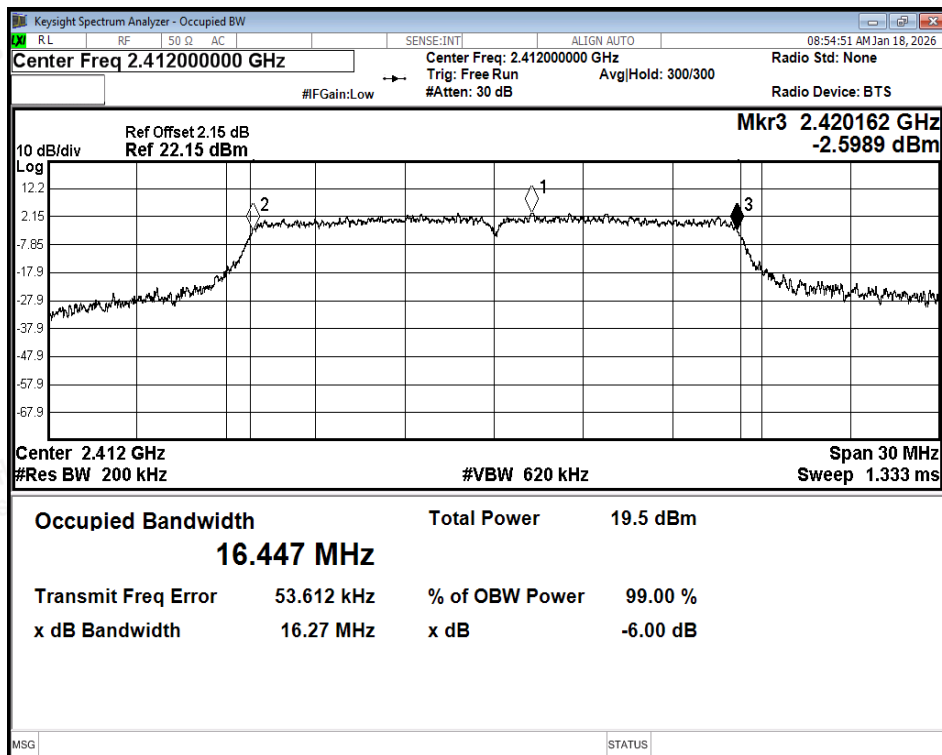
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-6dB Bandwidth NVNT b 2462MHz Ant1



-6dB Bandwidth NVNT g 2412MHz Ant1

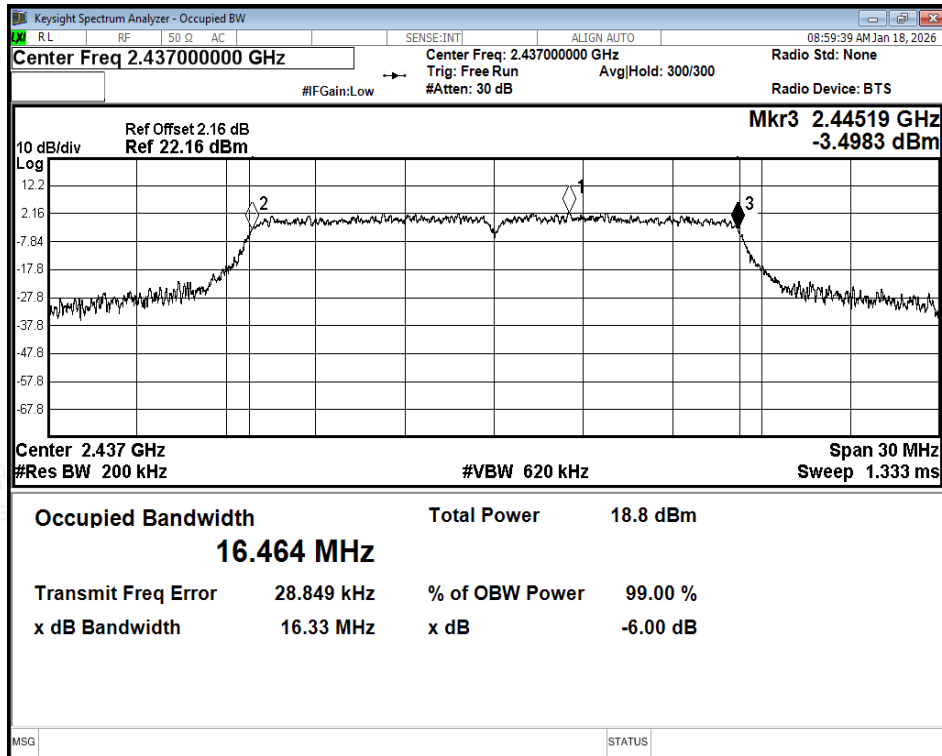


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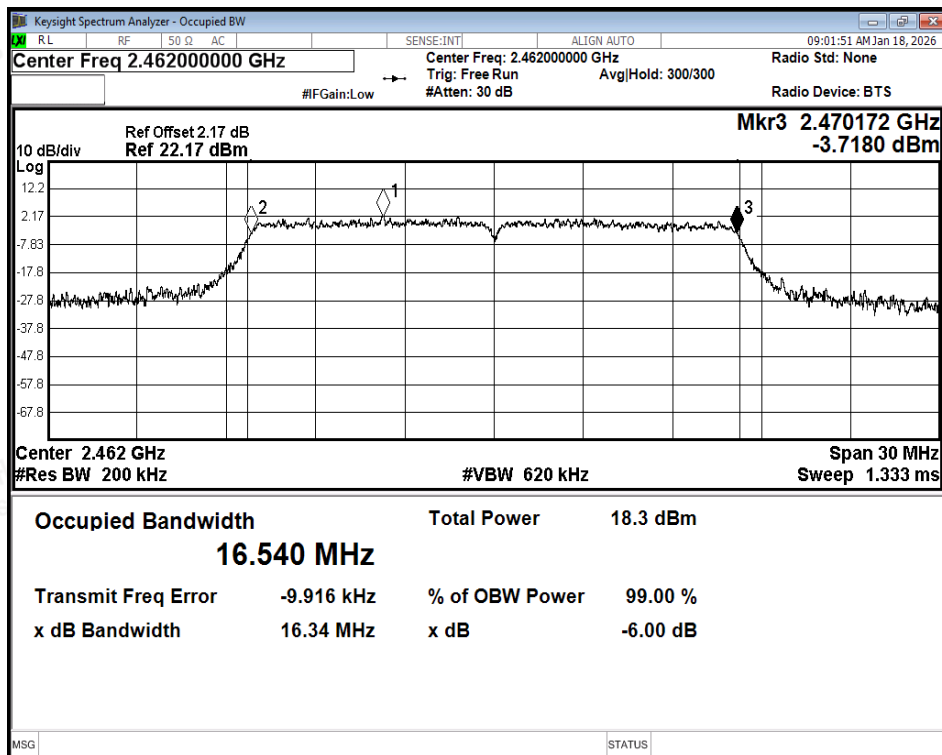
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-6dB Bandwidth NVNT g 2437MHz Ant1



-6dB Bandwidth NVNT g 2462MHz Ant1

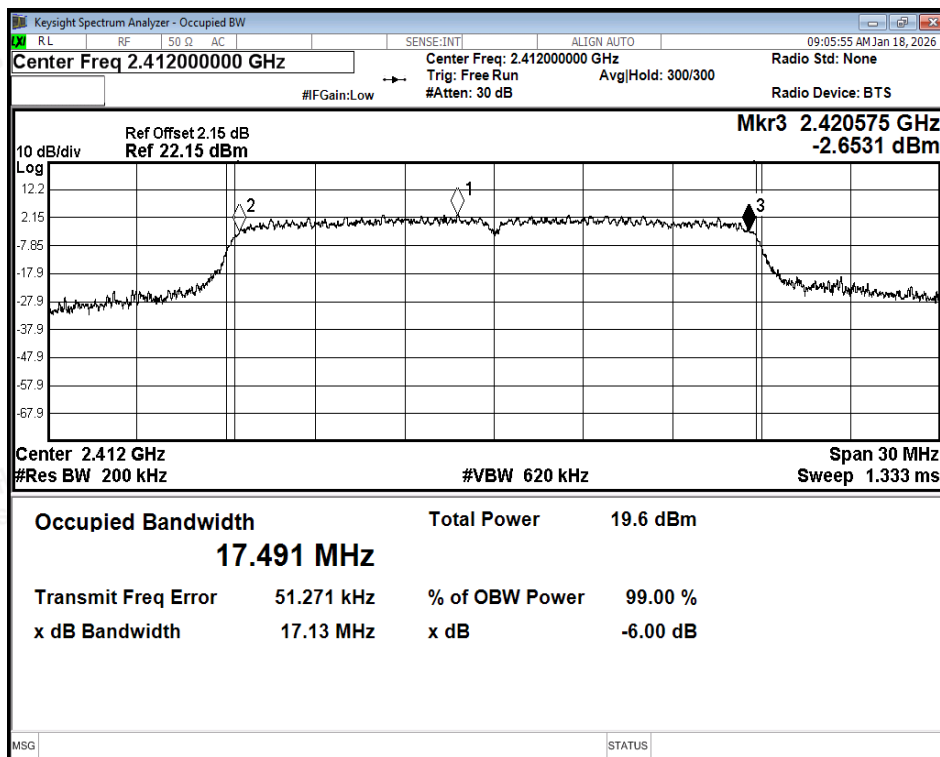


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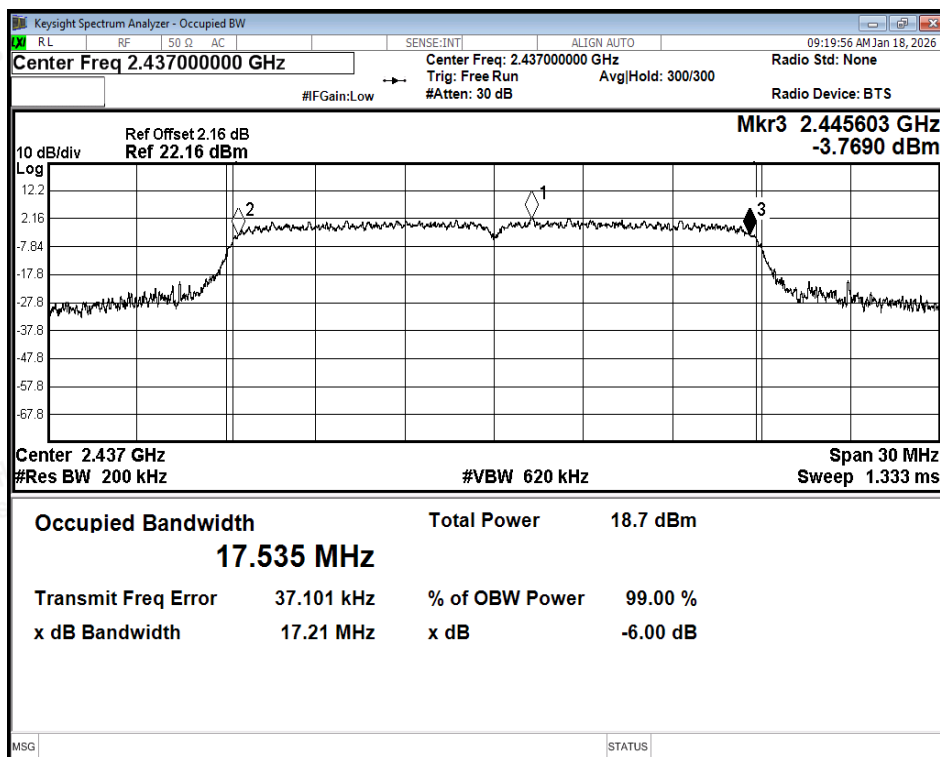
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-6dB Bandwidth NVNT n20 2412MHz Ant1



-6dB Bandwidth NVNT n20 2437MHz Ant1

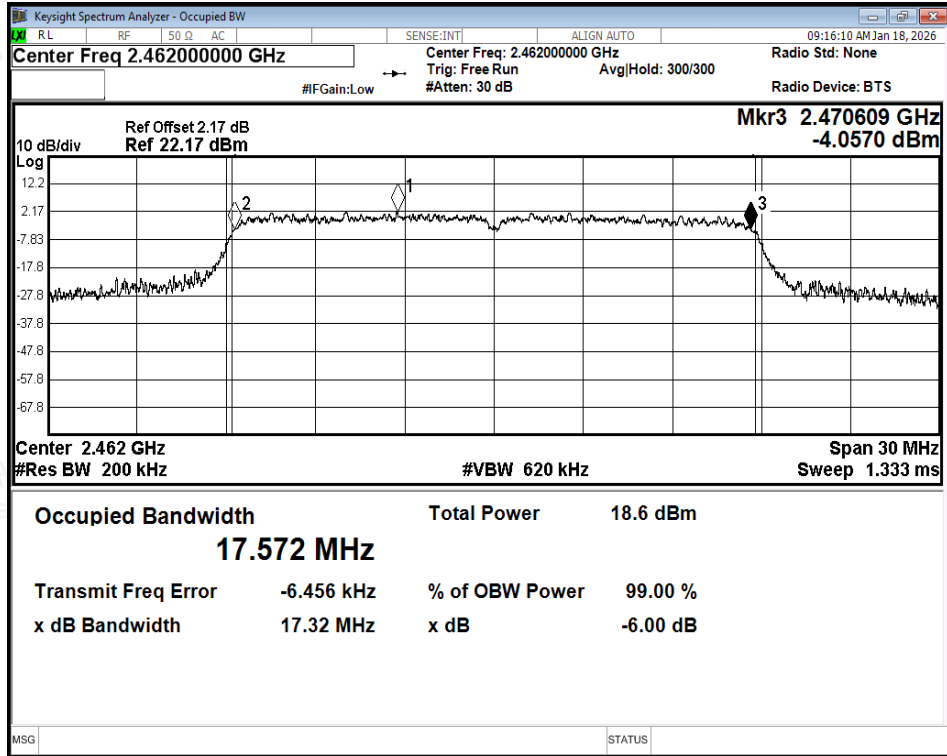


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B.2 Maximum Average Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Average Conducted Power (dBm)	Duty Factor (dB)	Total Average Conducted Power (dBm)	Limit Conducted(dBm)	Verdict
NVNT	b	2412	Ant1	14.26	0.01	14.27	30	Pass
NVNT	b	2437	Ant1	13.32	0.01	13.33	30	Pass
NVNT	b	2462	Ant1	12.9	0.01	12.91	30	Pass
NVNT	g	2412	Ant1	13.22	0.1	13.32	30	Pass
NVNT	g	2437	Ant1	12.65	0.1	12.75	30	Pass
NVNT	g	2462	Ant1	12.13	0.1	12.23	30	Pass
NVNT	n20	2412	Ant1	13.34	0.12	13.46	30	Pass
NVNT	n20	2437	Ant1	12.95	0.12	13.07	30	Pass
NVNT	n20	2462	Ant1	12.35	0.12	12.47	30	Pass

Note: offset=System attenuation +cabal loss



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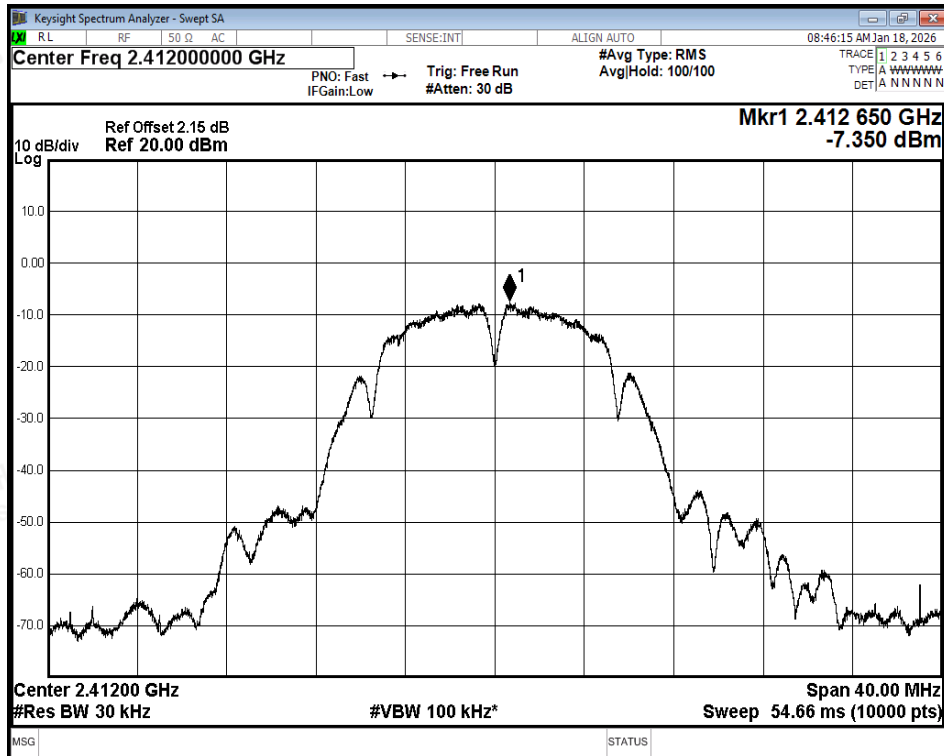
B.3 Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/30kHz)	Duty Factor (dB)	Total PSD (dBm/30kHz)	Limit (dBm/3kHz)	Verdict
NVNT	b	2412	Ant1	-17.35	0.01	-17.34	8	Pass
NVNT	b	2437	Ant1	-18.46	0.01	-18.45	8	Pass
NVNT	b	2462	Ant1	-18.89	0.01	-18.88	8	Pass
NVNT	g	2412	Ant1	-20.69	0.1	-20.59	8	Pass
NVNT	g	2437	Ant1	-21.93	0.1	-21.83	8	Pass
NVNT	g	2462	Ant1	-22.32	0.1	-22.22	8	Pass
NVNT	n20	2412	Ant1	-21.49	0.12	-21.37	8	Pass
NVNT	n20	2437	Ant1	-22.27	0.12	-22.15	8	Pass
NVNT	n20	2462	Ant1	-22.1	0.12	-21.98	8	Pass

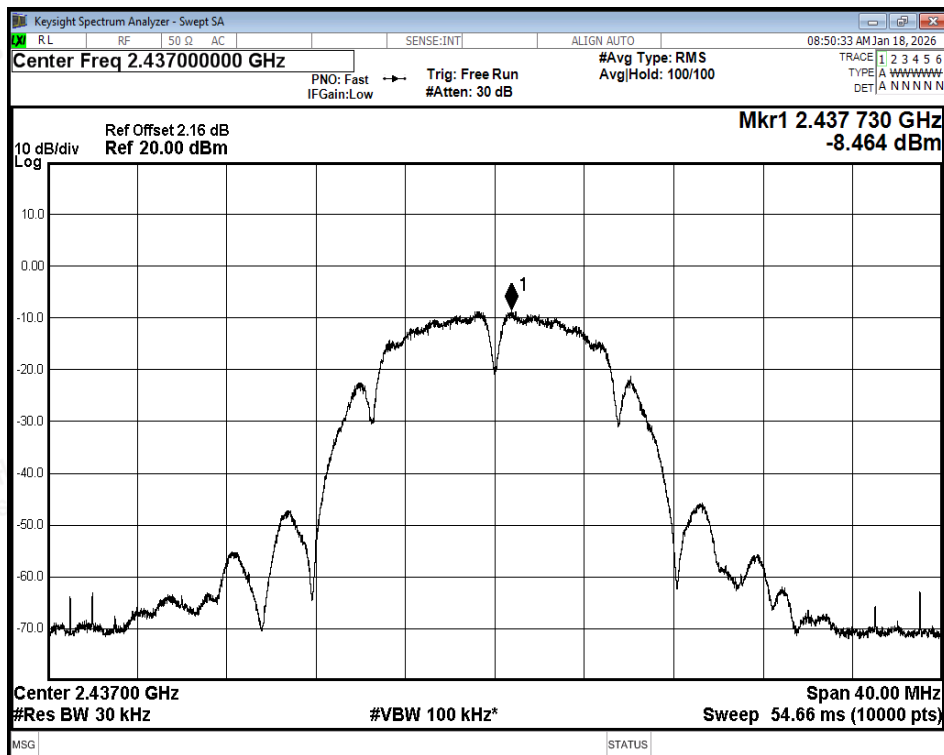
Note: offset=System attenuation +cabal loss



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PSD NVNT b 2412MHz Ant1



PSD NVNT b 2437MHz Ant1

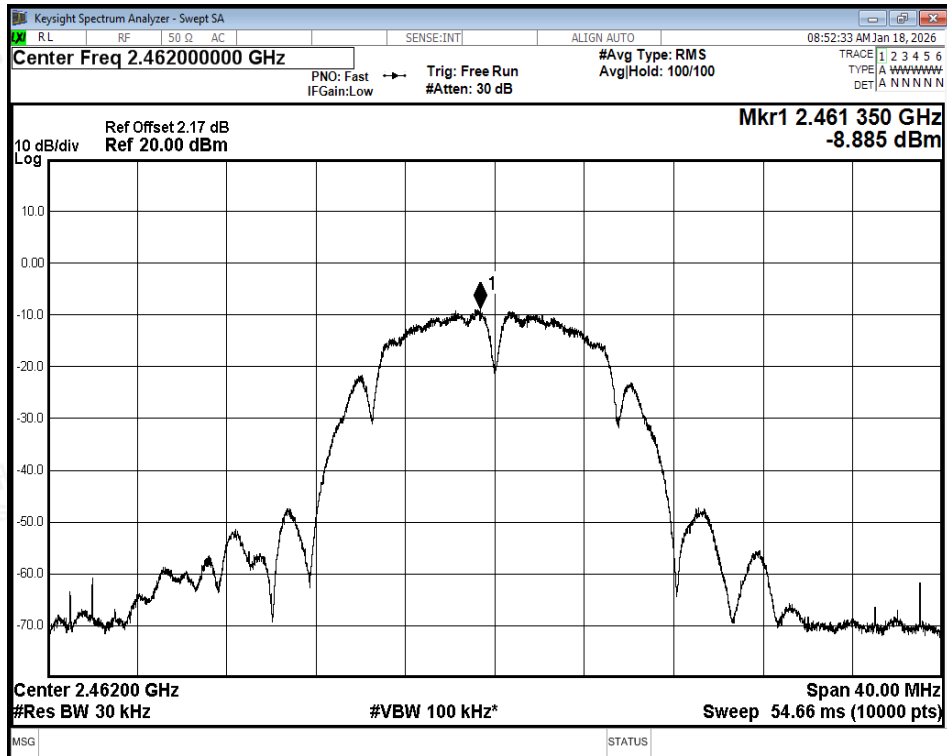


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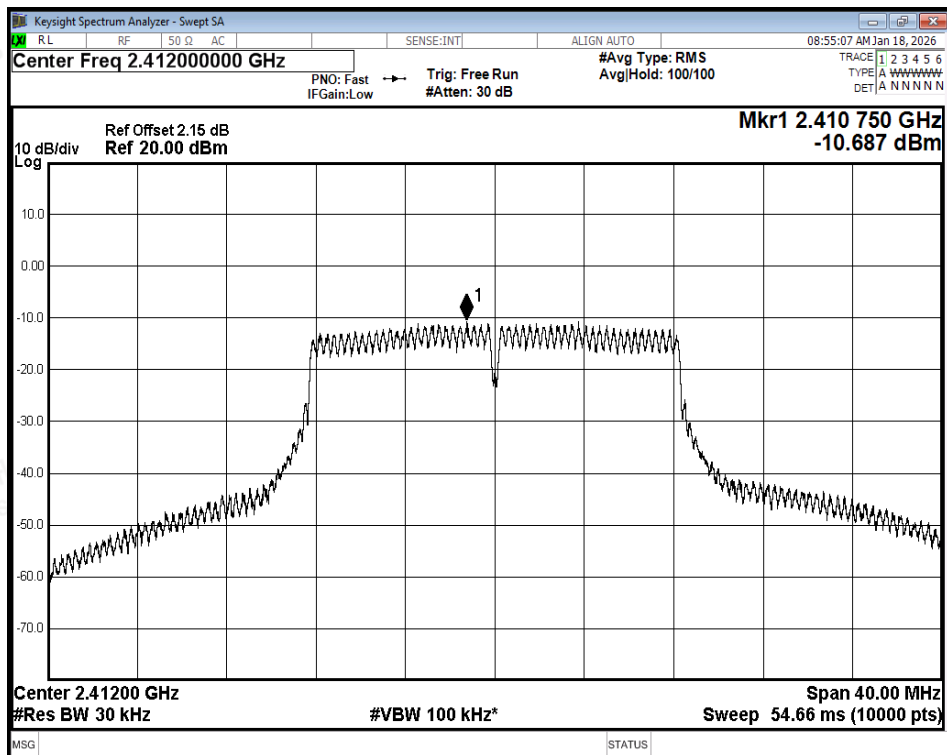
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PSD NVNT b 2462MHz Ant1



PSD NVNT g 2412MHz Ant1

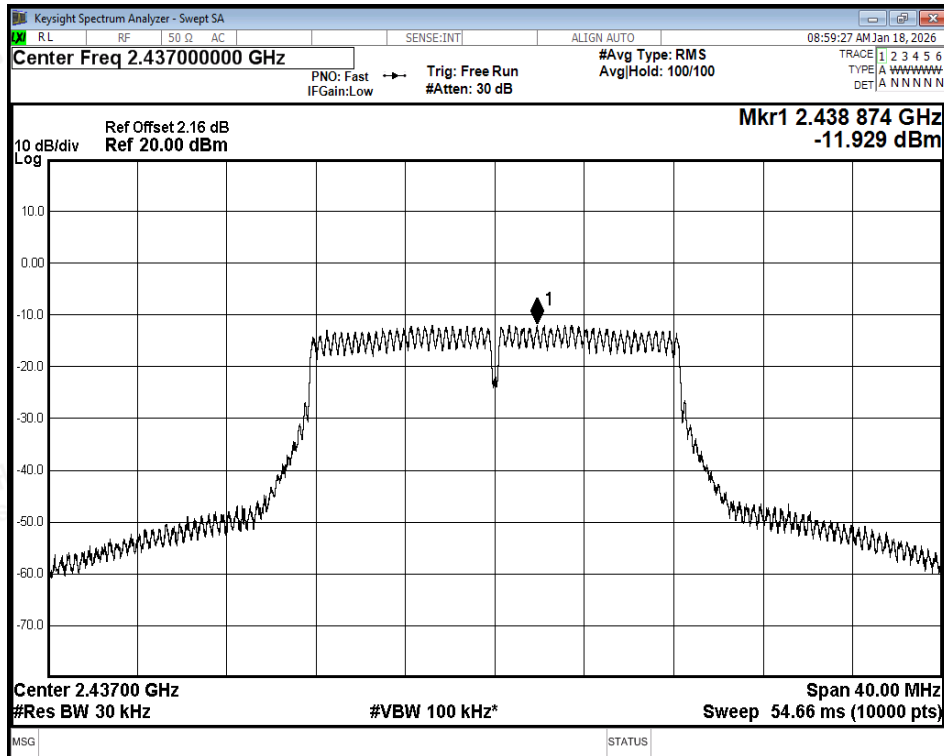


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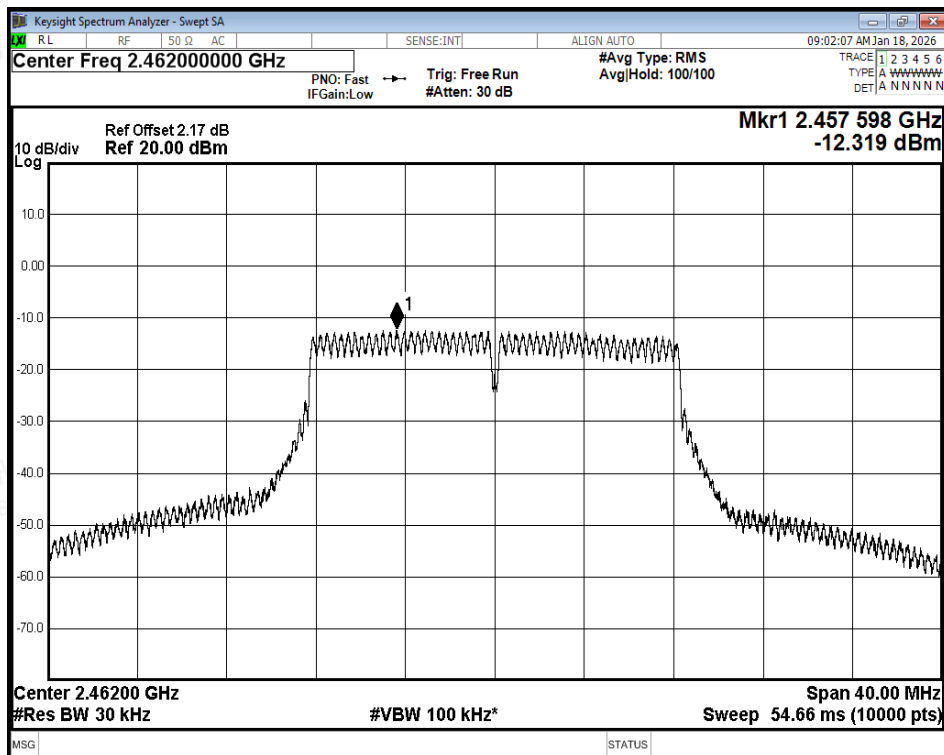
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PSD NVNT g 2437MHz Ant1



PSD NVNT g 2462MHz Ant1

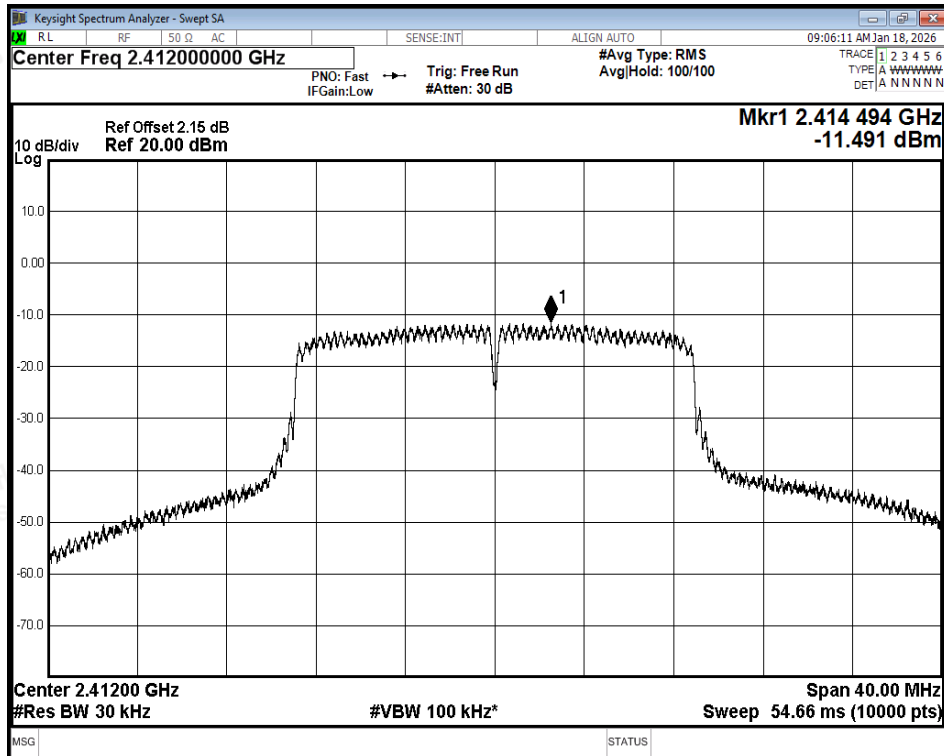


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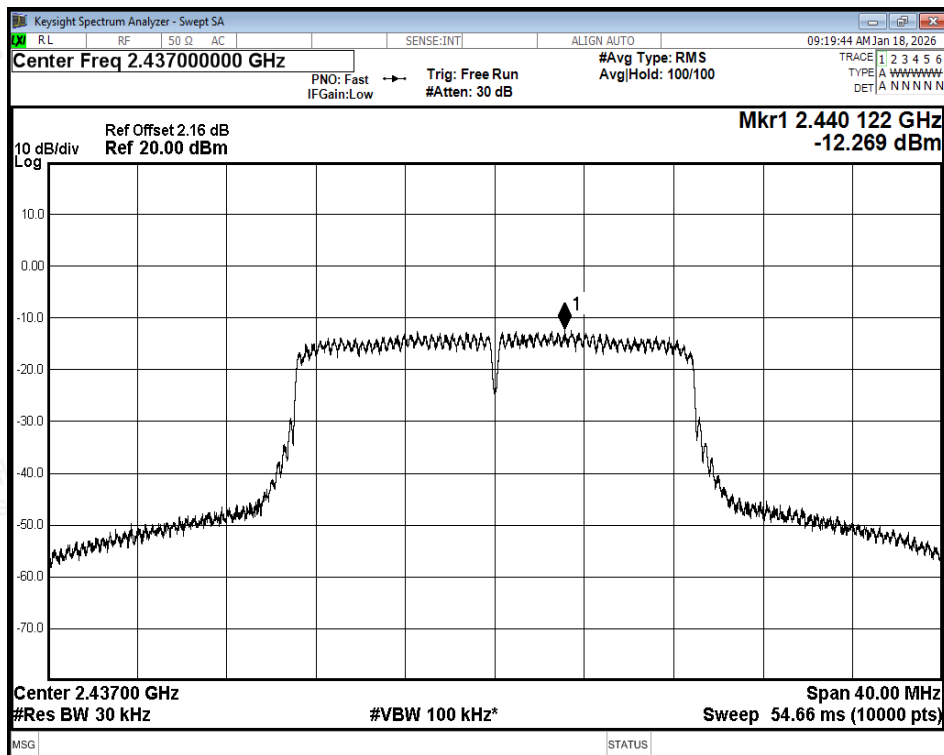
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PSD NVNT n20 2412MHz Ant1



PSD NVNT n20 2437MHz Ant1

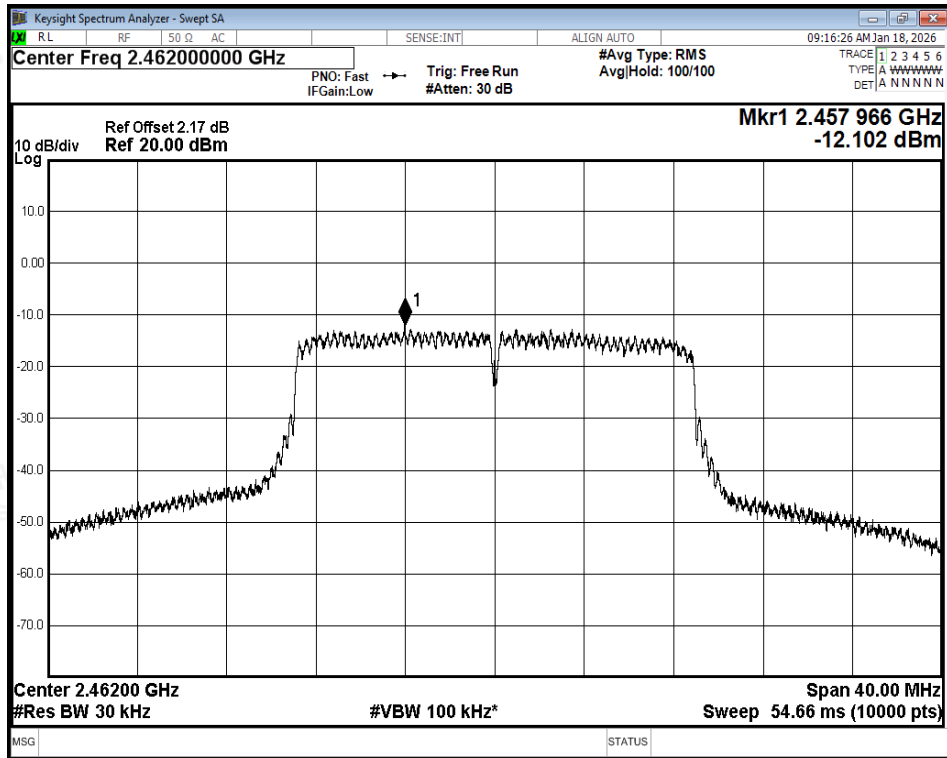


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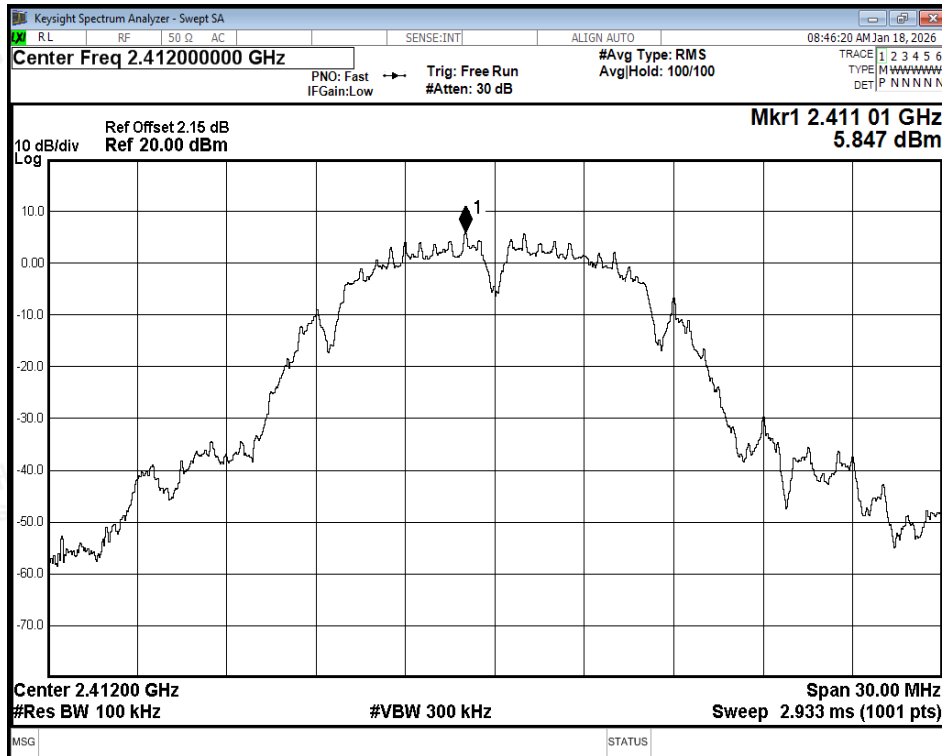
B.4 Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-46.69	-30	Pass
NVNT	b	2462	Ant1	-58.78	-30	Pass
NVNT	g	2412	Ant1	-31.29	-30	Pass
NVNT	g	2462	Ant1	-44.52	-30	Pass
NVNT	n20	2412	Ant1	-30.97	-30	Pass
NVNT	n20	2462	Ant1	-43.84	-30	Pass

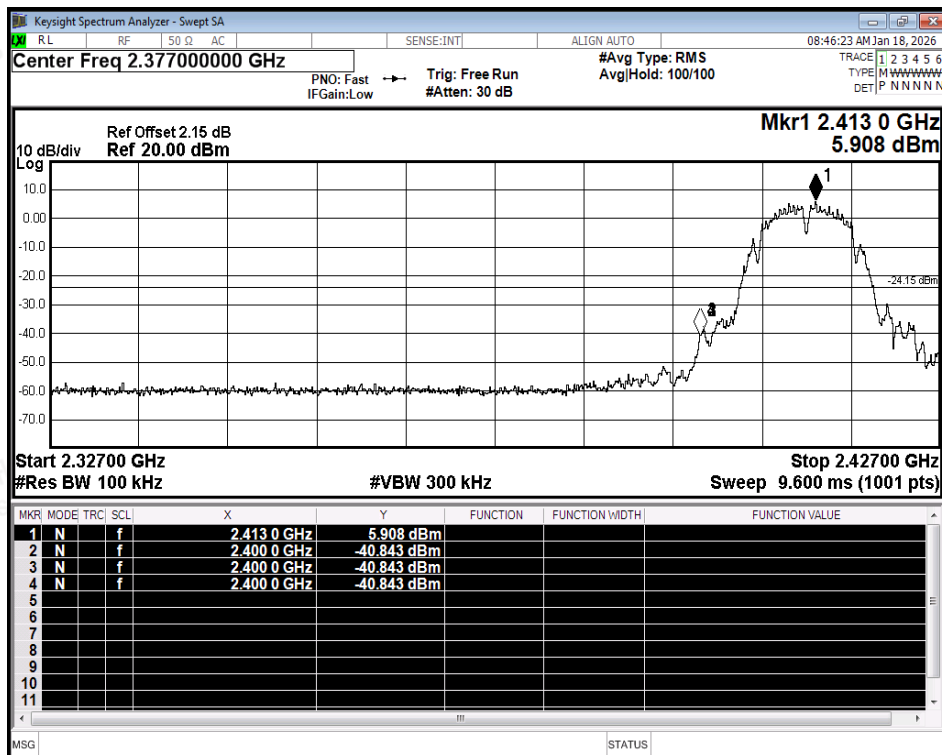
Note: offset=System attenuation +cabal loss



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Band Edge NVNT b 2412MHz Ant1 Ref



Band Edge NVNT b 2412MHz Ant1 Emission

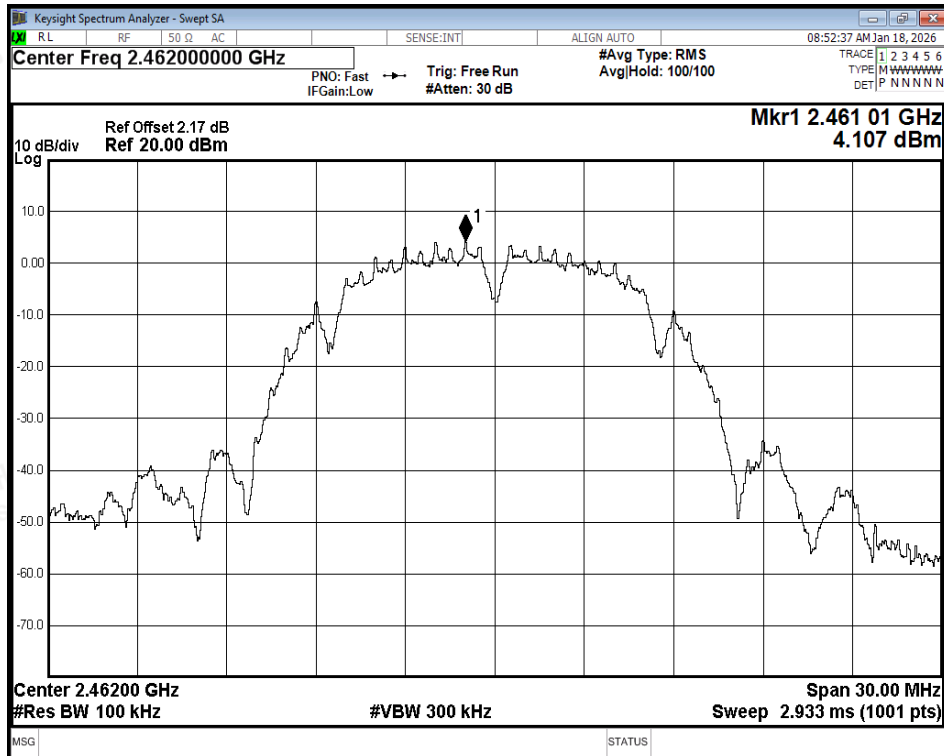


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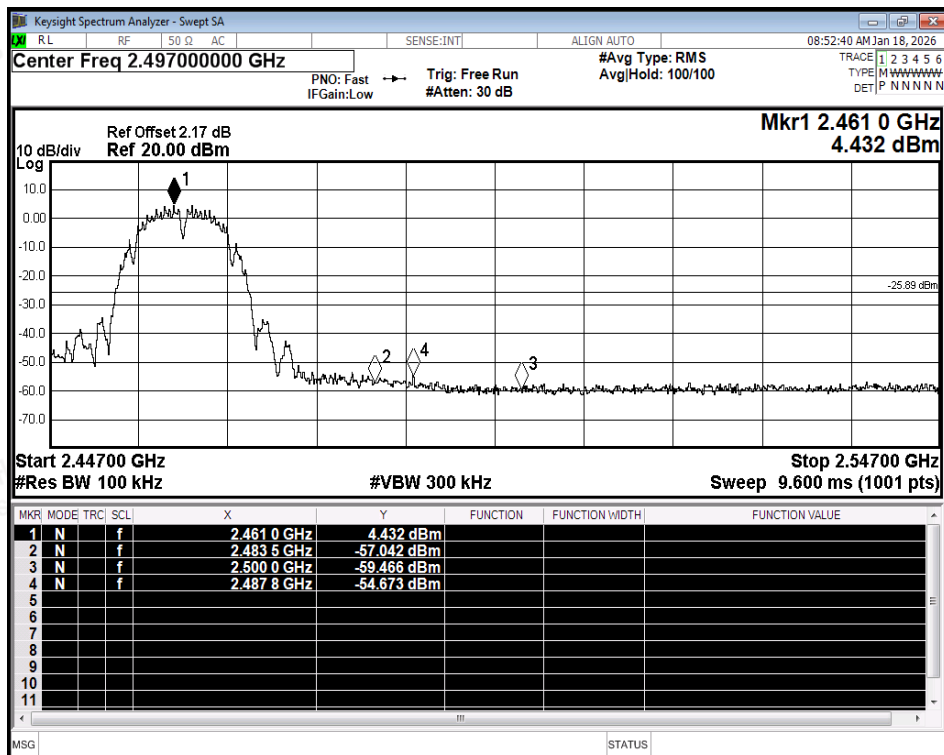
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Band Edge NVNT b 2462MHz Ant1 Emission

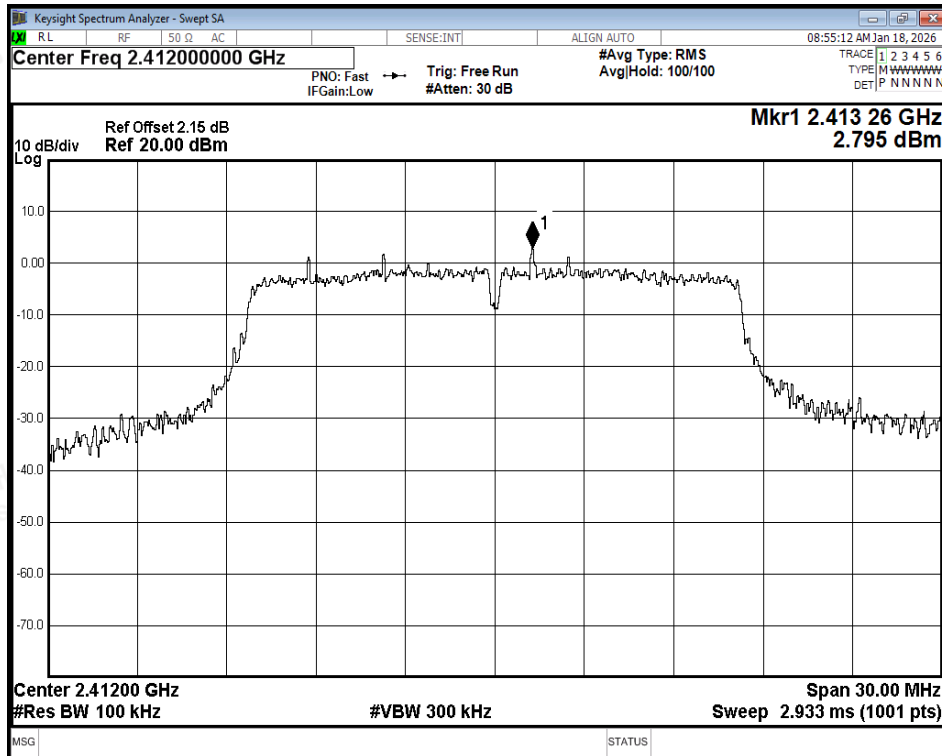


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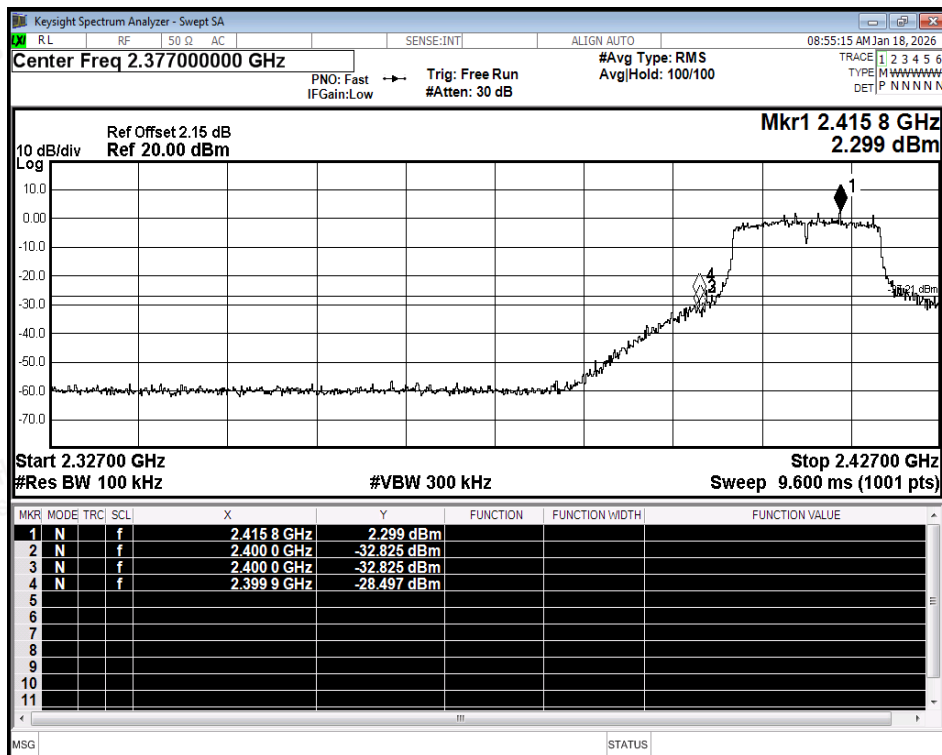
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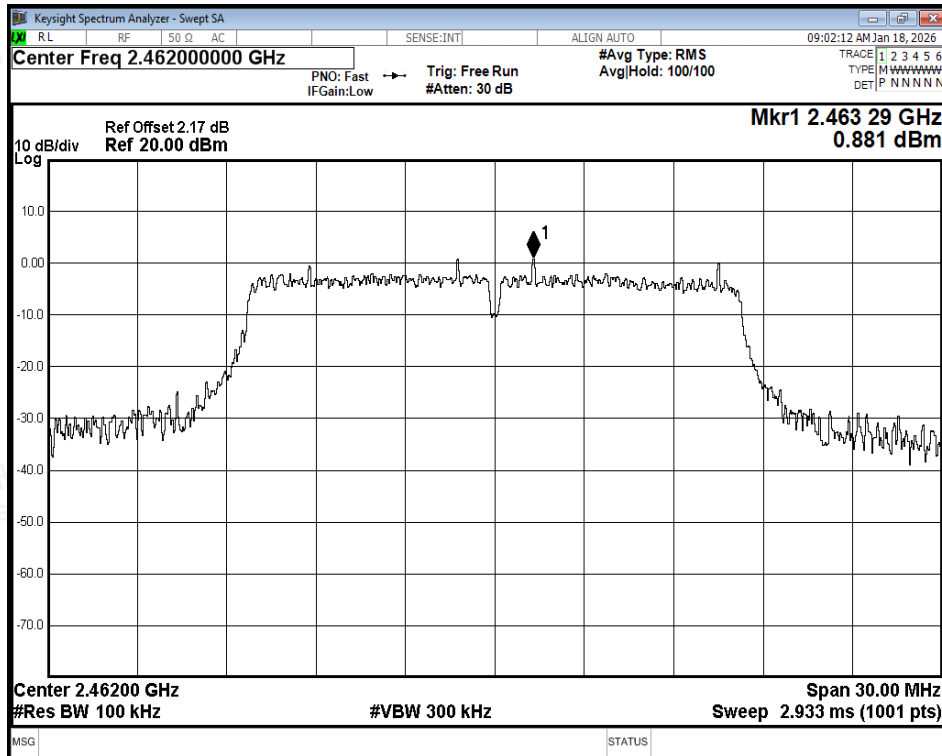


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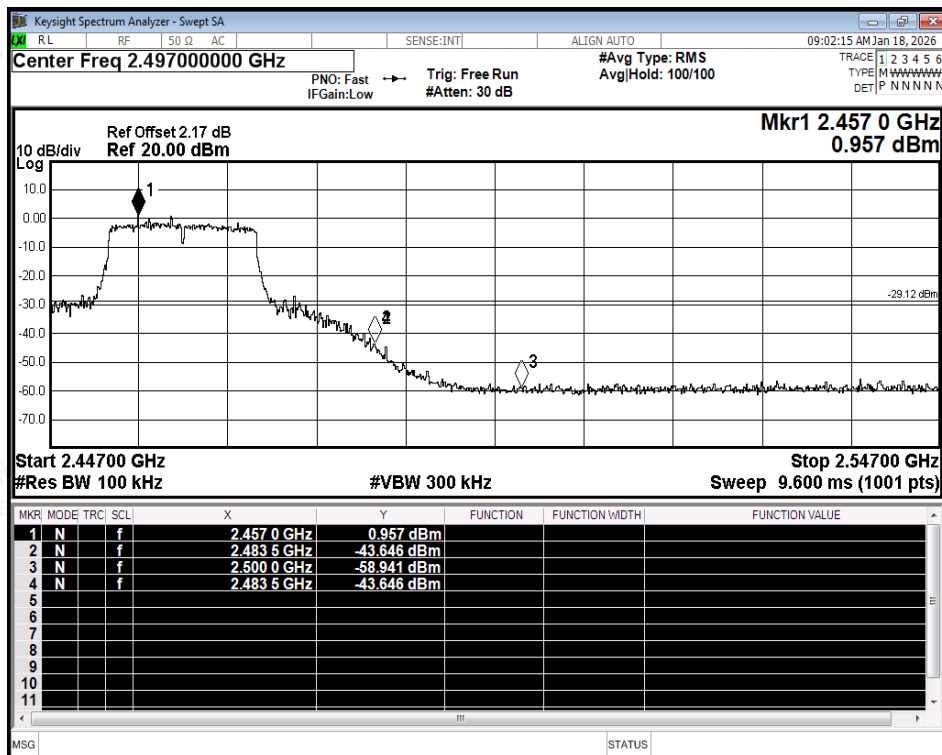
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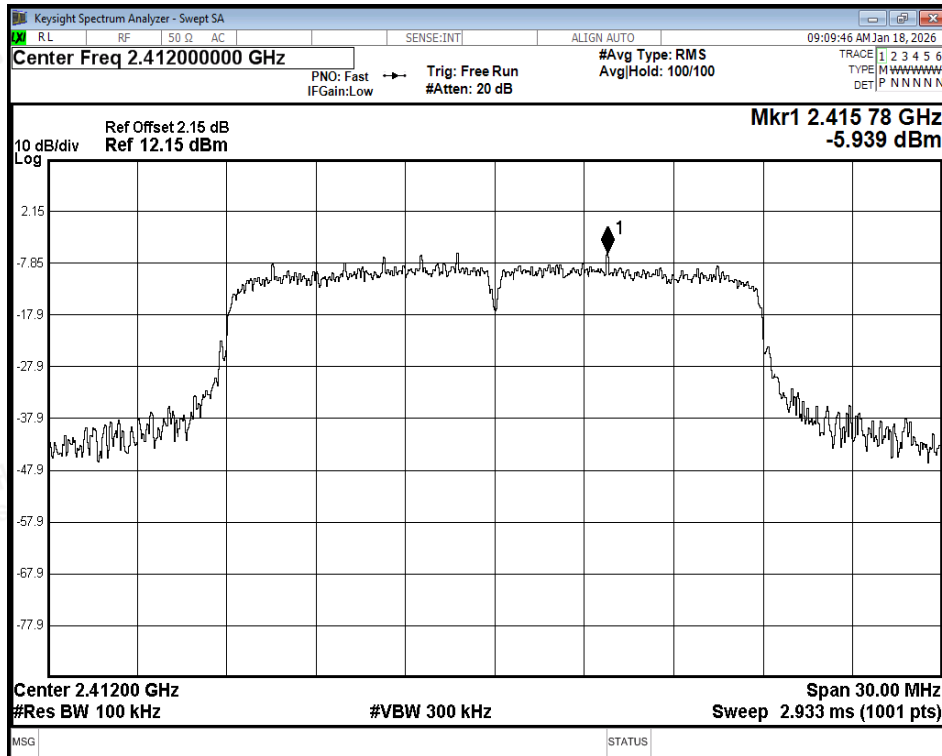


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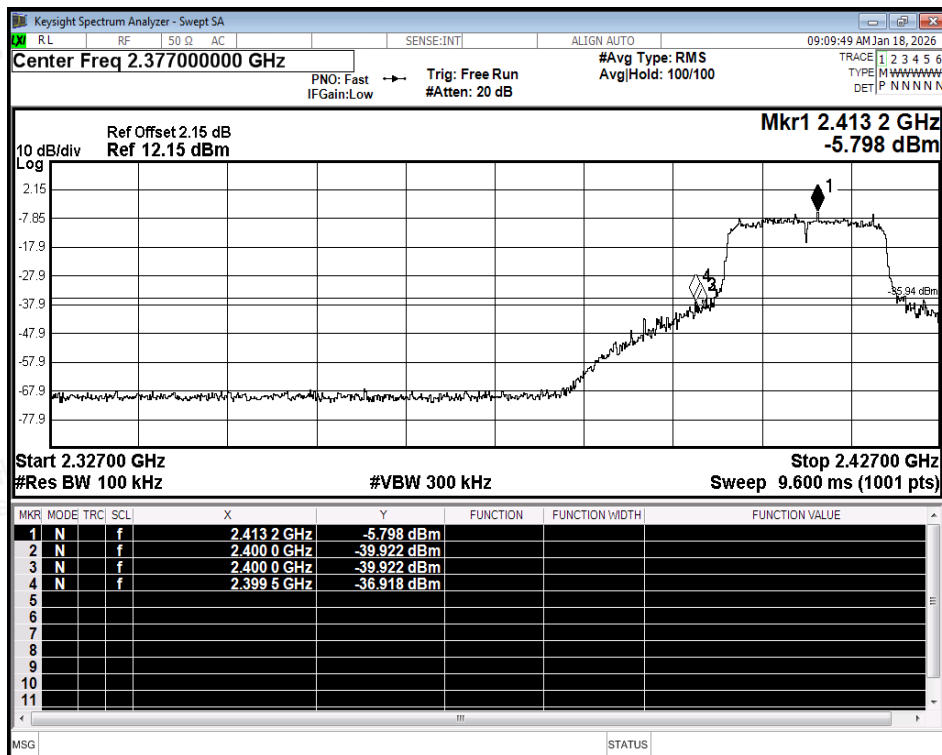
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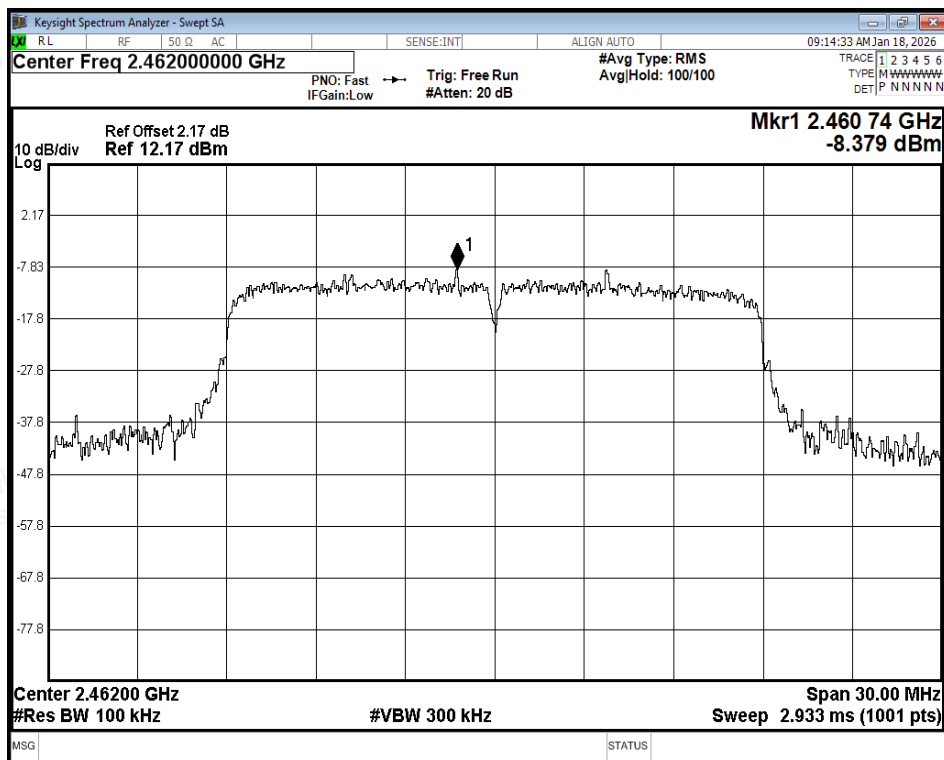


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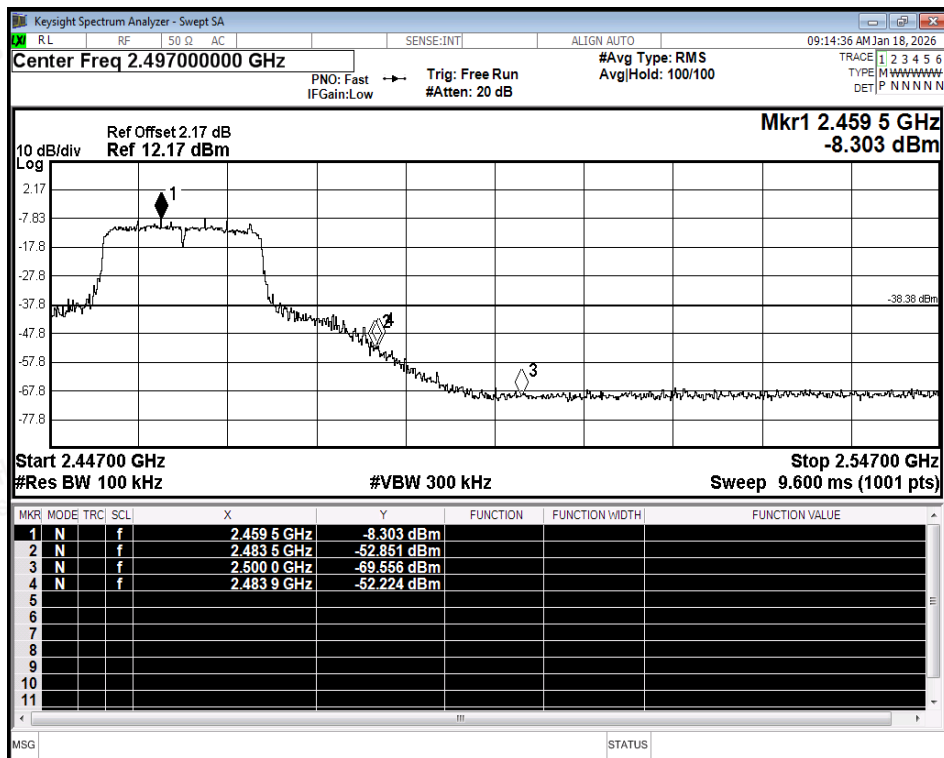
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Band Edge NVNT n20 2462MHz Ant1 Emission



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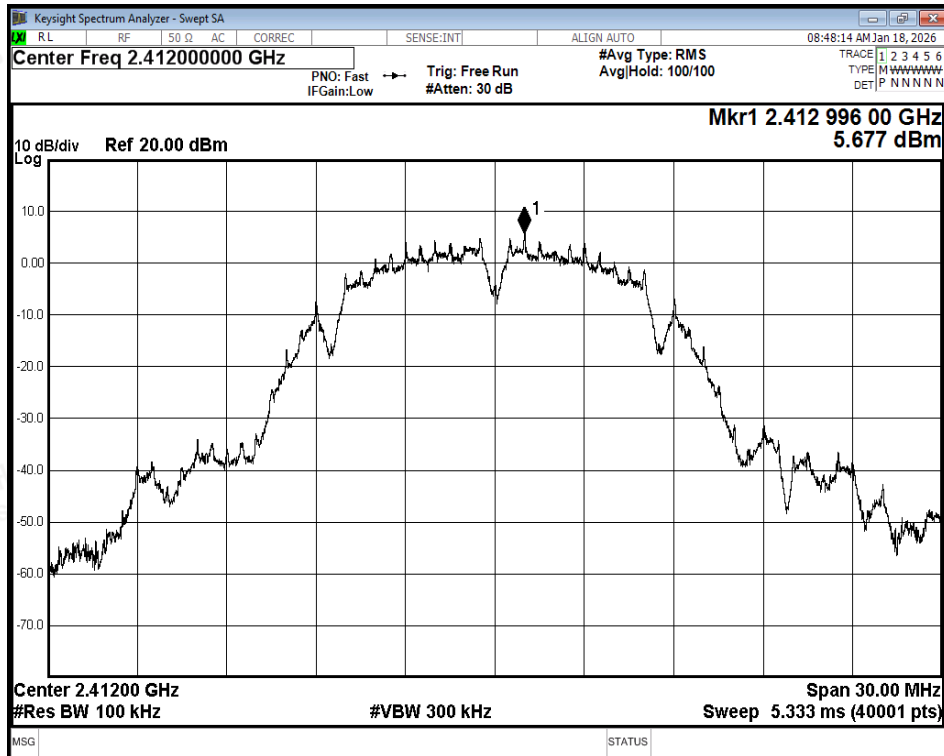
B.5 Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-43.99	-30	Pass
NVNT	b	2437	Ant1	-42.37	-30	Pass
NVNT	b	2462	Ant1	-42.88	-30	Pass
NVNT	g	2412	Ant1	-40.46	-30	Pass
NVNT	g	2437	Ant1	-39.09	-30	Pass
NVNT	g	2462	Ant1	-38.64	-30	Pass
NVNT	n20	2412	Ant1	-40	-30	Pass
NVNT	n20	2437	Ant1	-38.87	-30	Pass
NVNT	n20	2462	Ant1	-39.53	-30	Pass

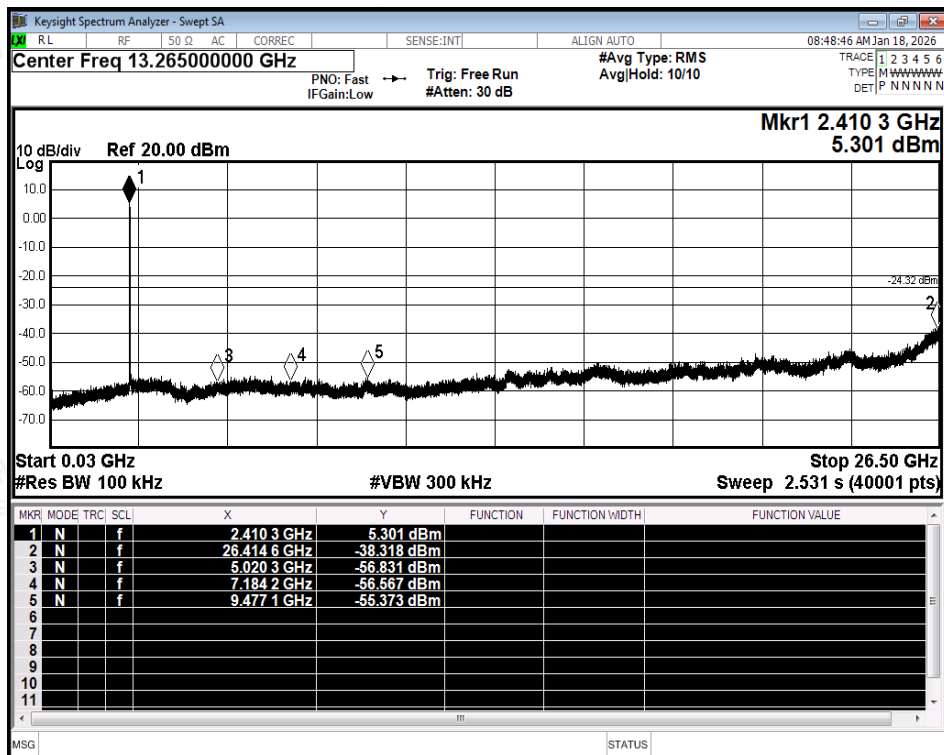
Note: Regarding the spurious emissions from 30MHz to 26.5GHz, the cable lose have been set in the CORREC' of the Spectrum Analyzer during the test.



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Tx. Spurious NVNT b 2412MHz Ant1 Ref



Tx. Spurious NVNT b 2412MHz Ant1 Emission

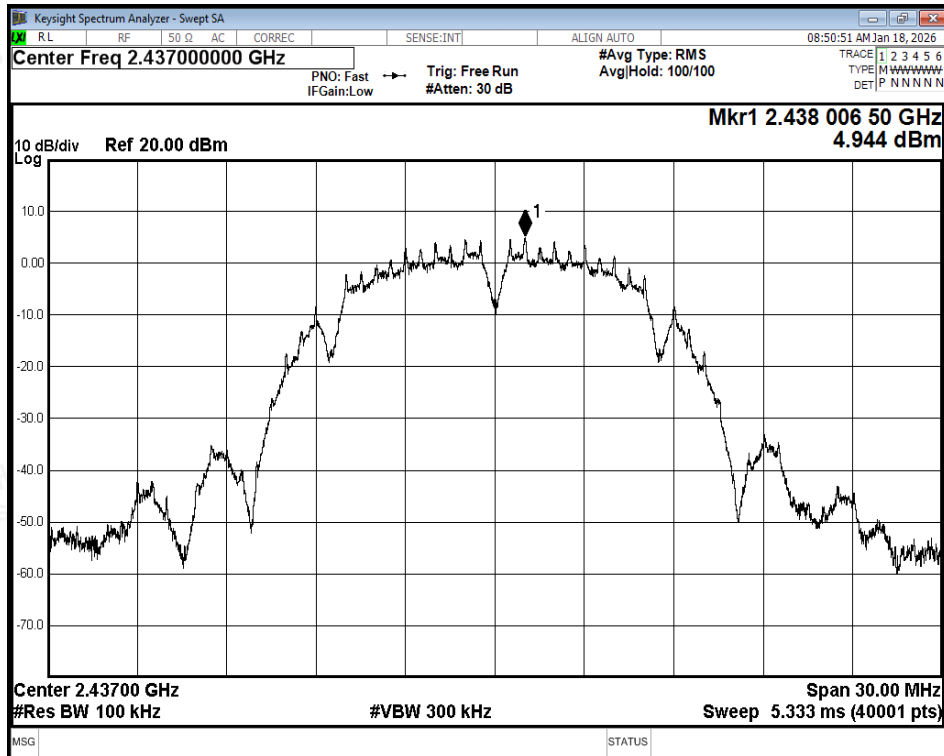


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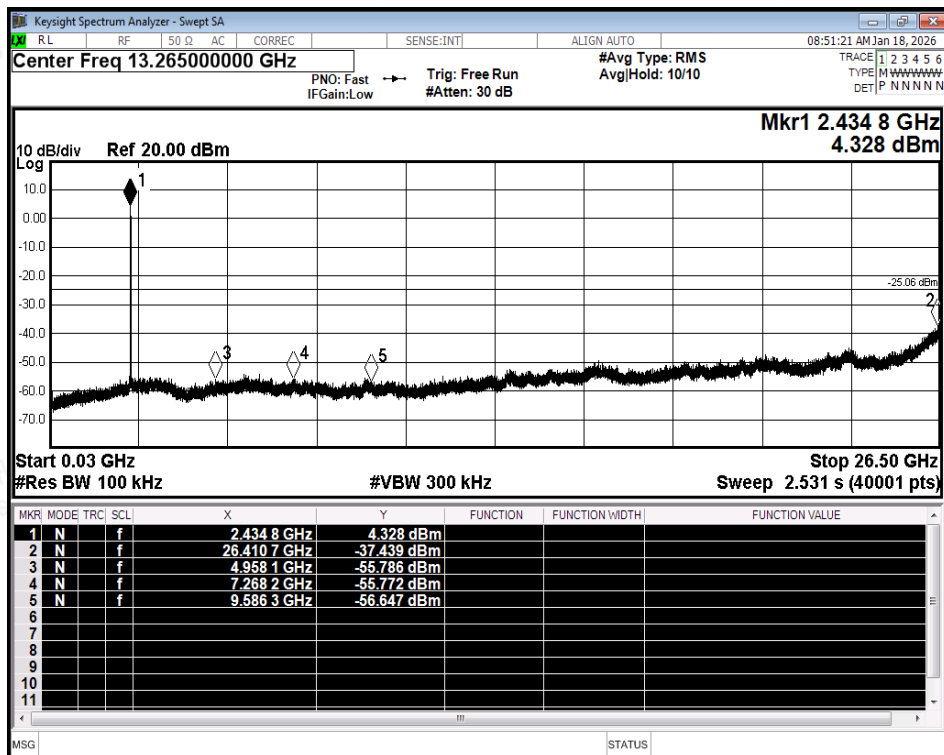
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Tx. Spurious NVNT b 2437MHz Ant1 Emission

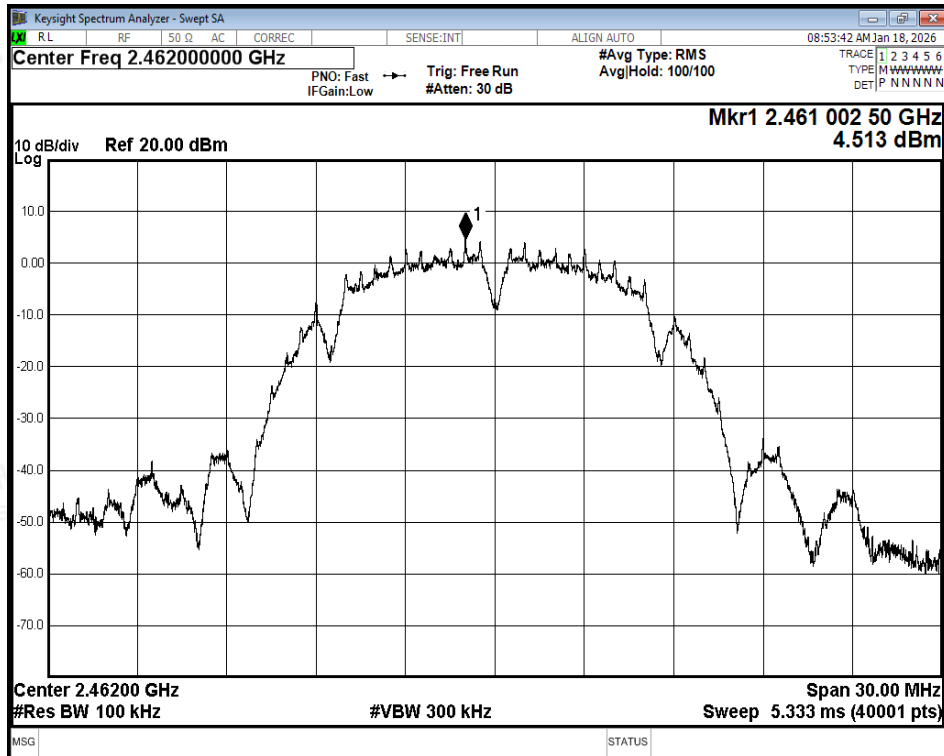


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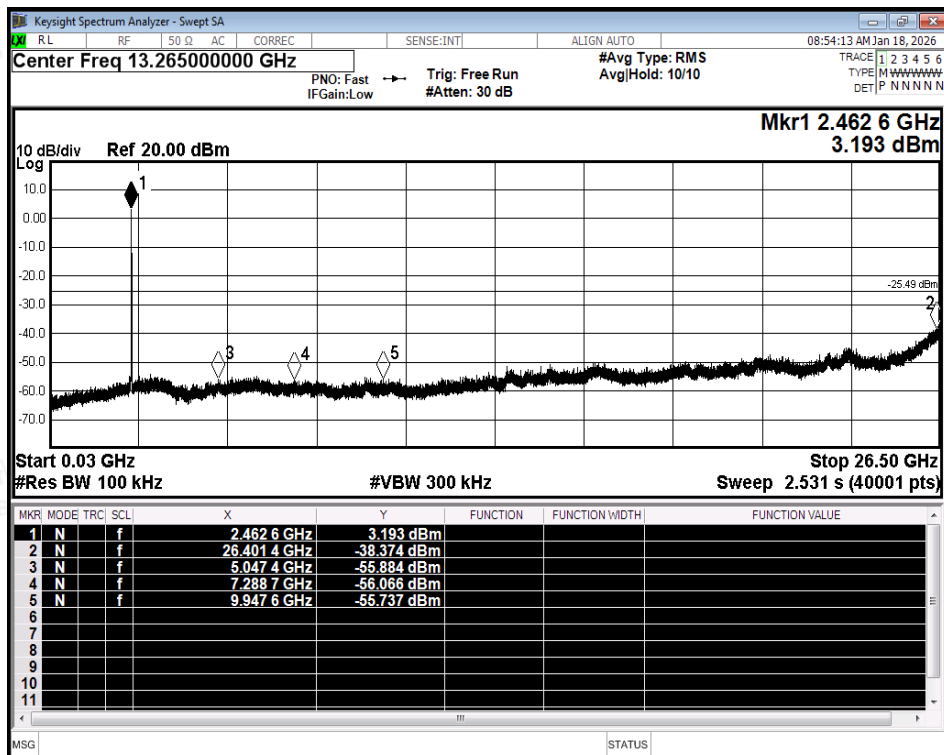
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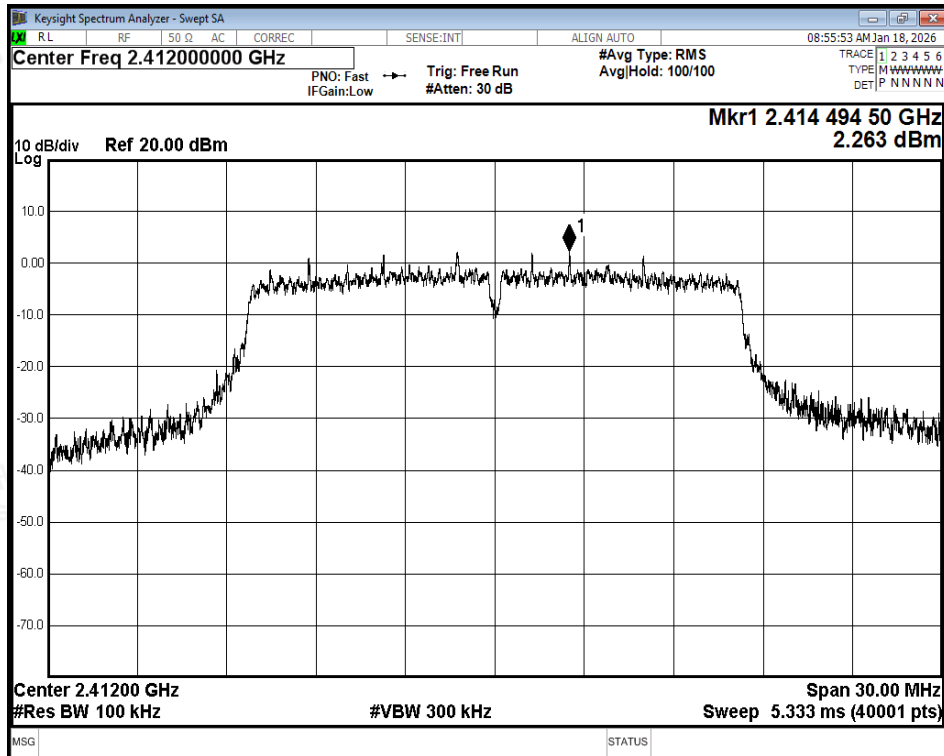


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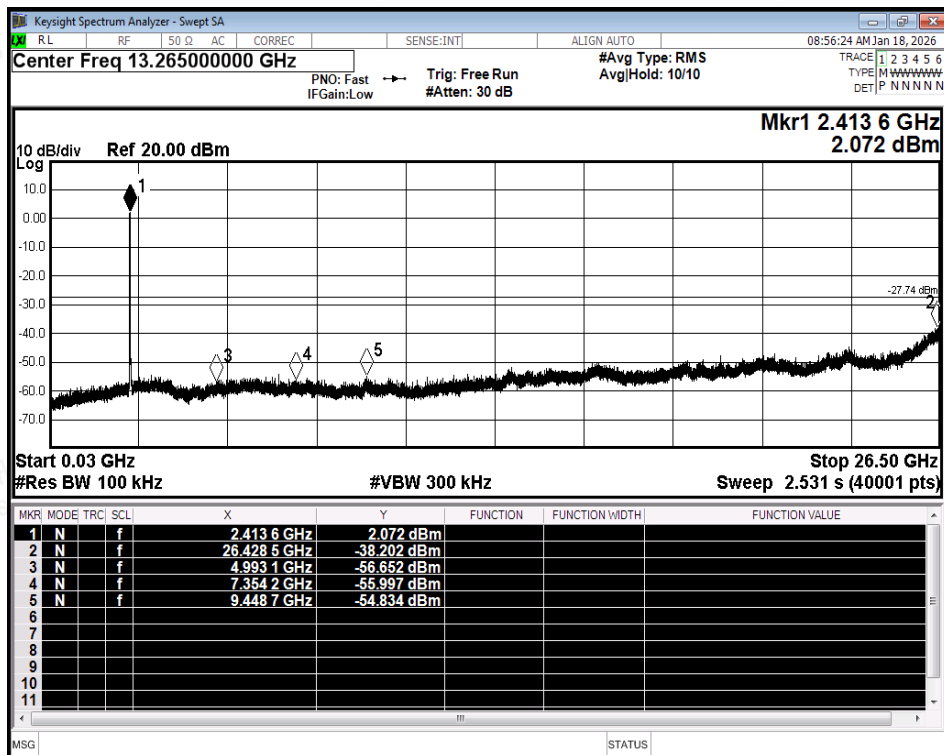
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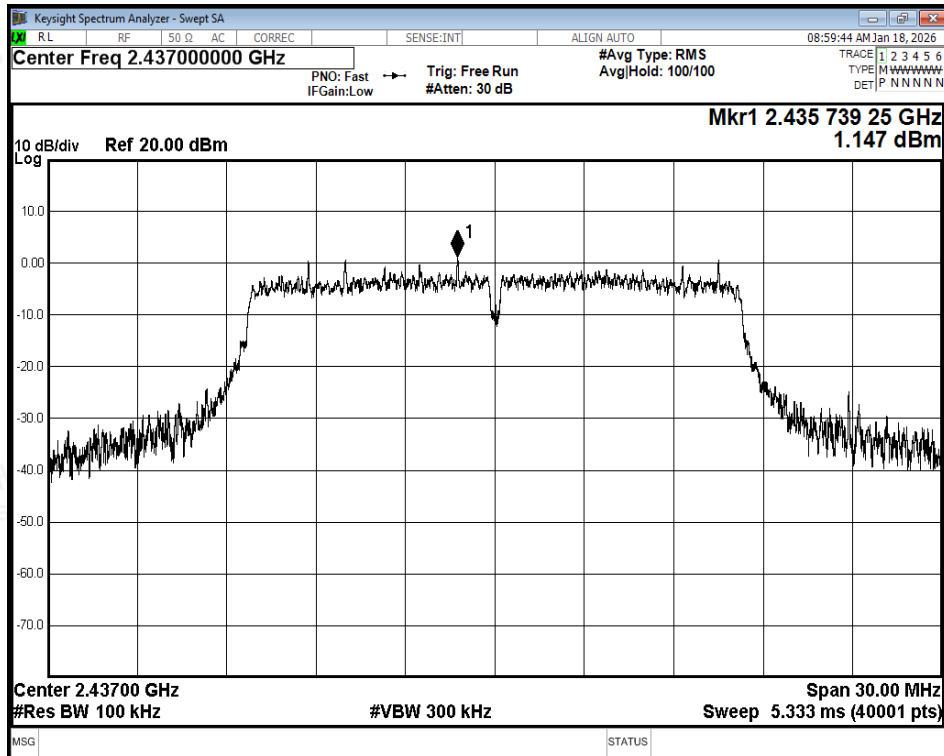


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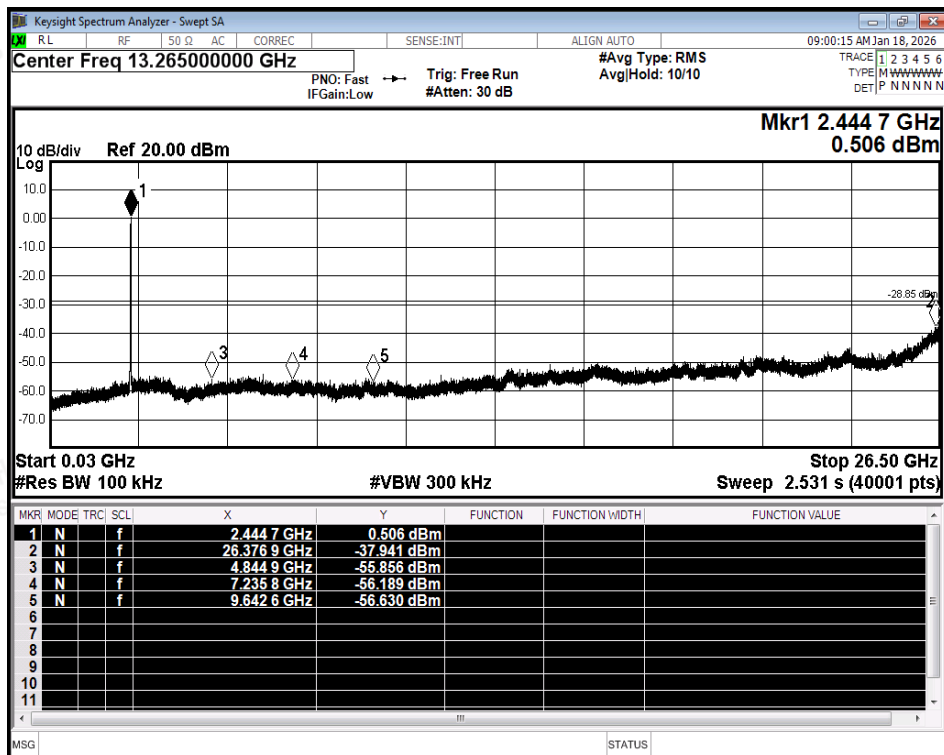
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Tx. Spurious NVNT g 2437MHz Ant1 Ref



Tx. Spurious NVNT g 2437MHz Ant1 Emission

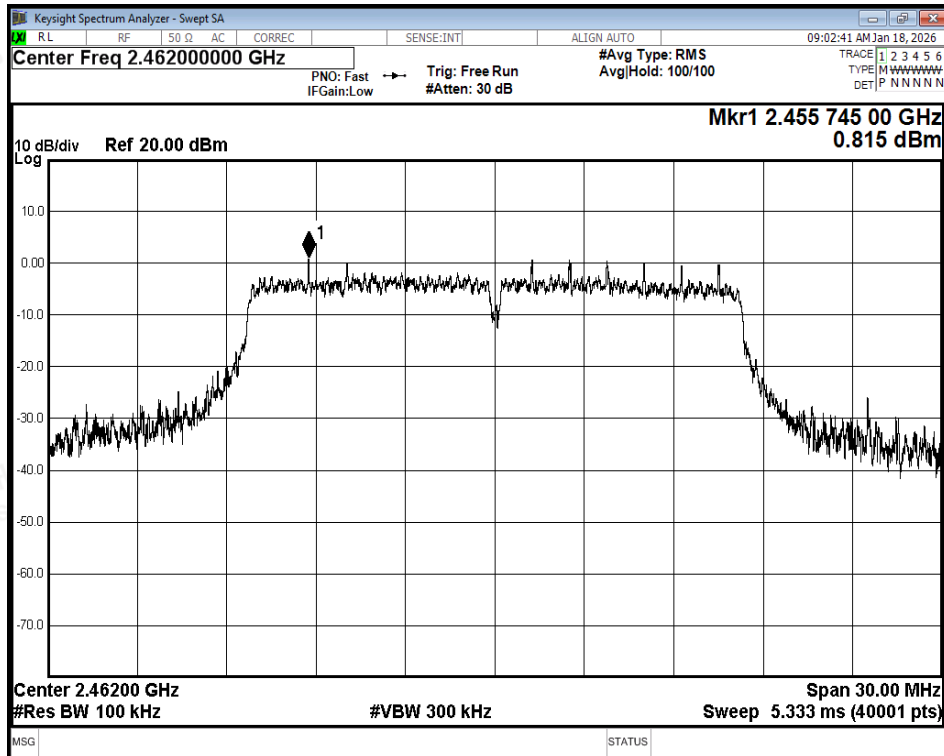


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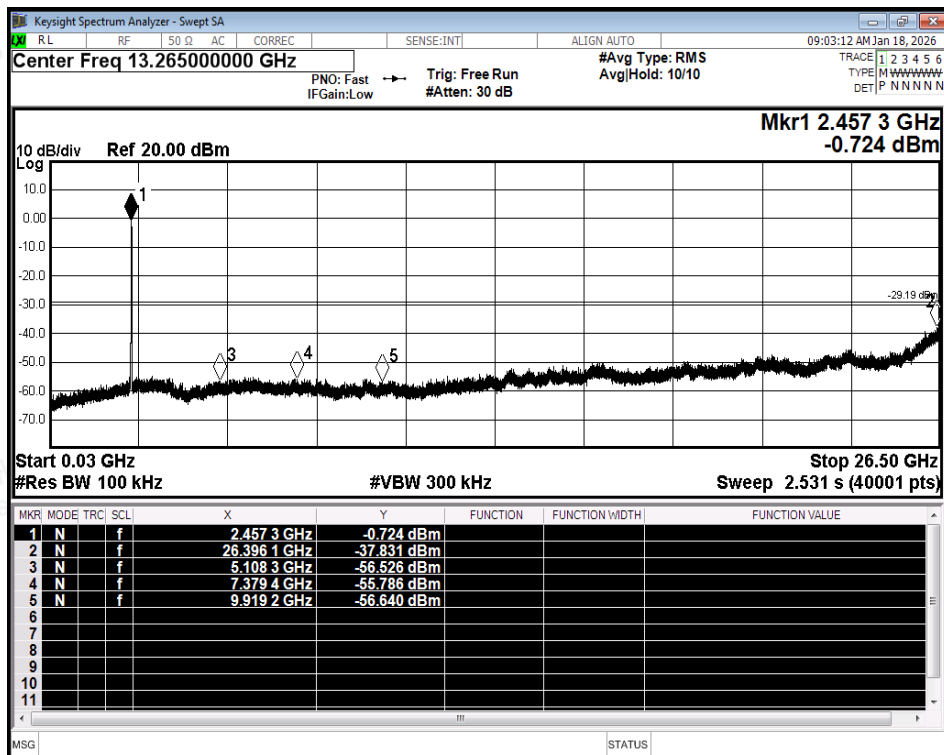
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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Tx. Spurious NVNT g 2462MHz Ant1 Ref



Tx. Spurious NVNT g 2462MHz Ant1 Emission

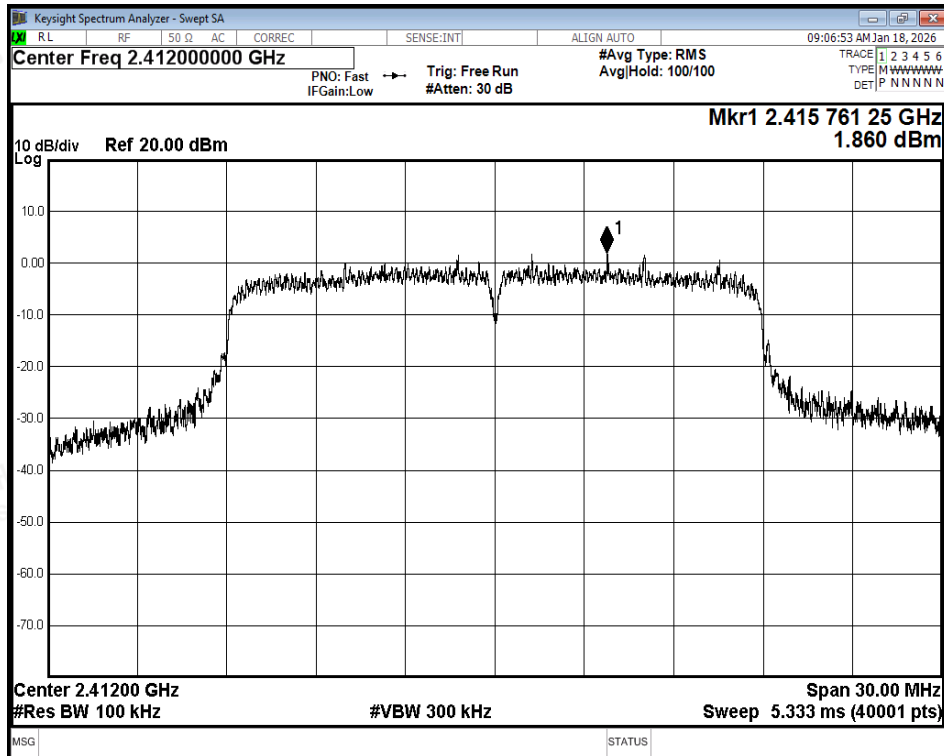


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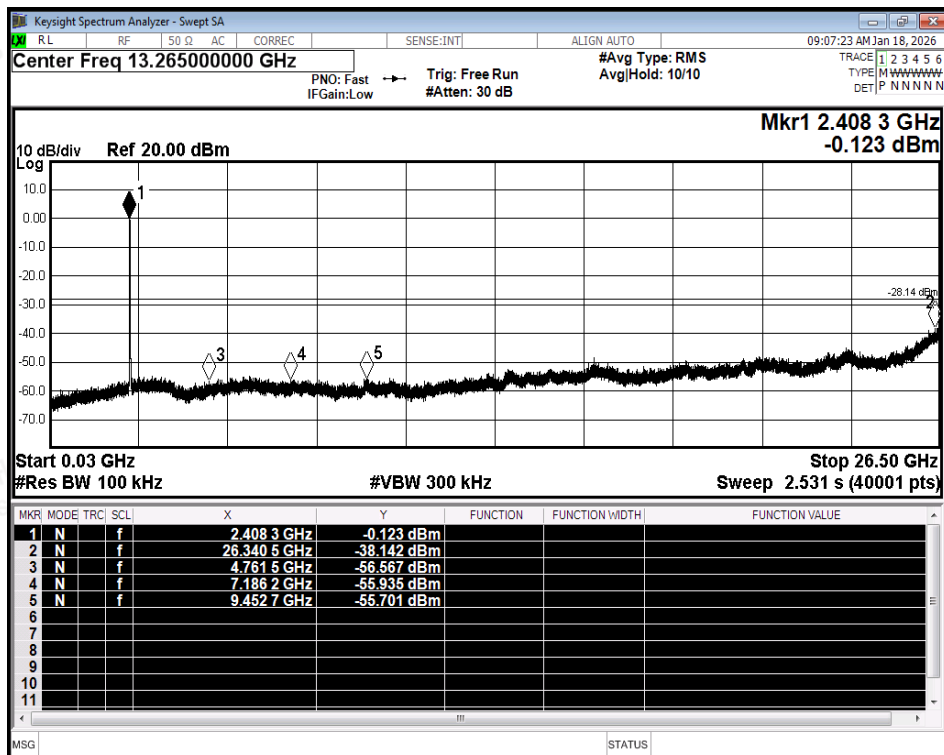
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Tx. Spurious NVNT n20 2412MHz Ant1 Ref



Tx. Spurious NVNT n20 2412MHz Ant1 Emission

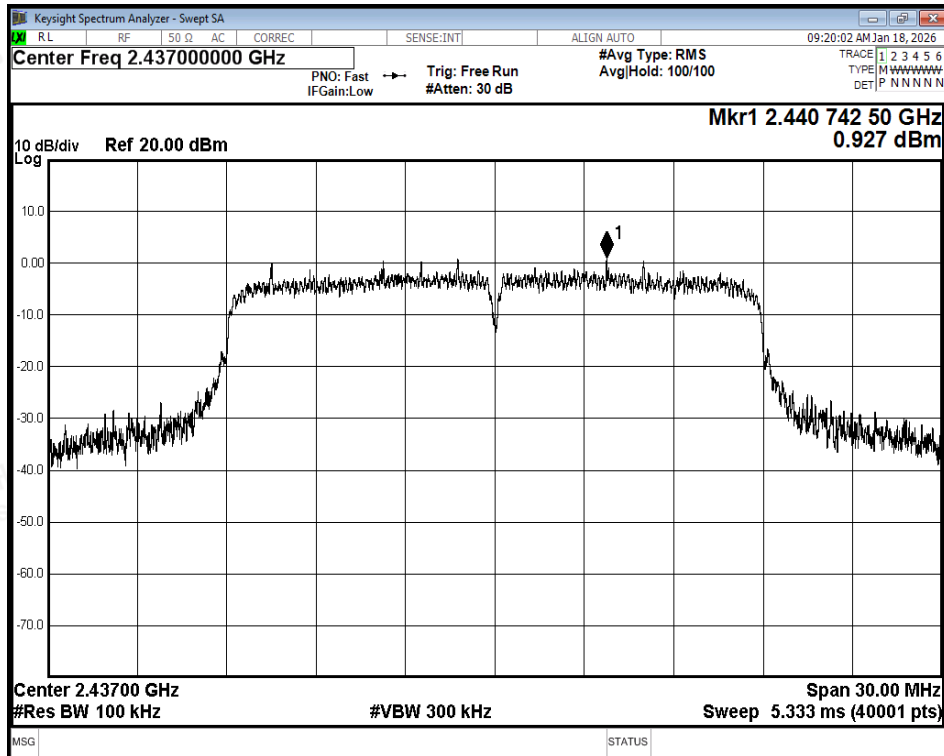


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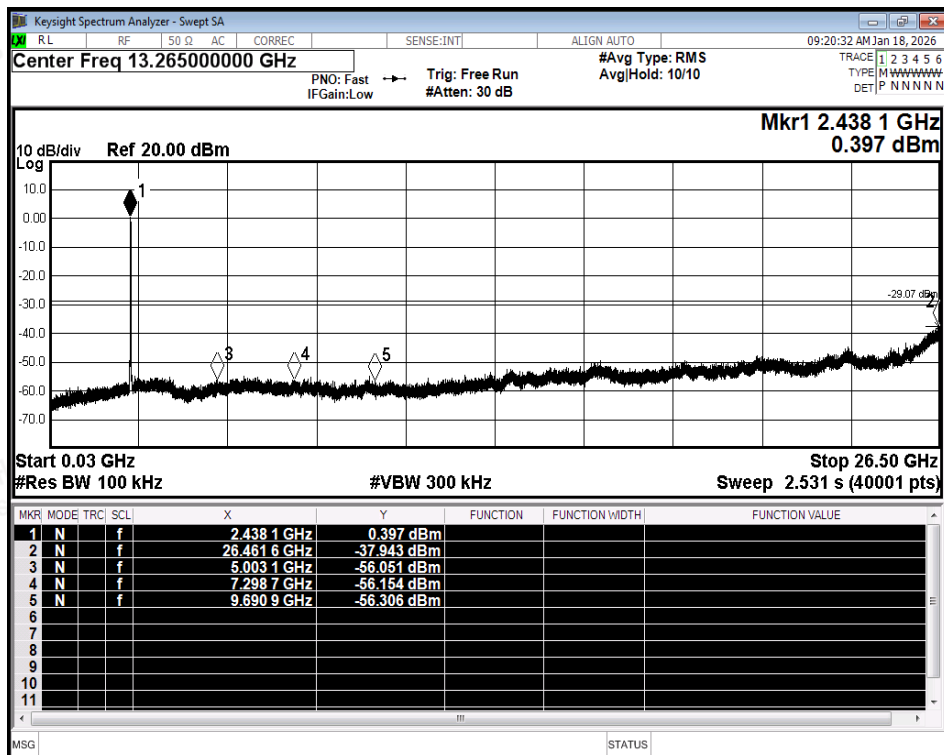
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Tx. Spurious NVNT n20 2437MHz Ant1 Ref



Tx. Spurious NVNT n20 2437MHz Ant1 Emission

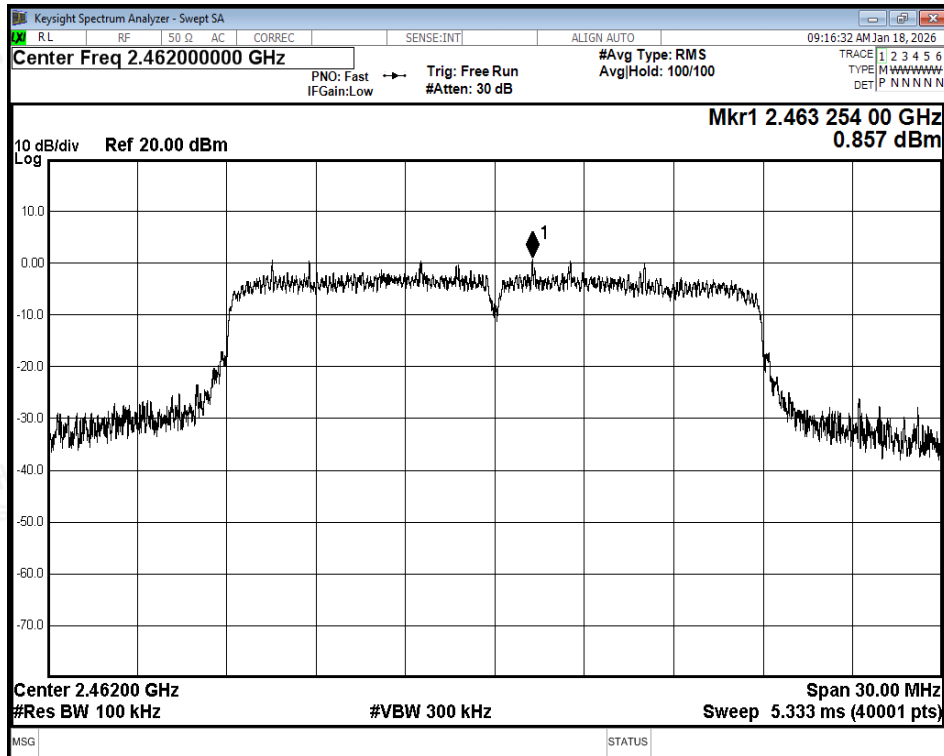


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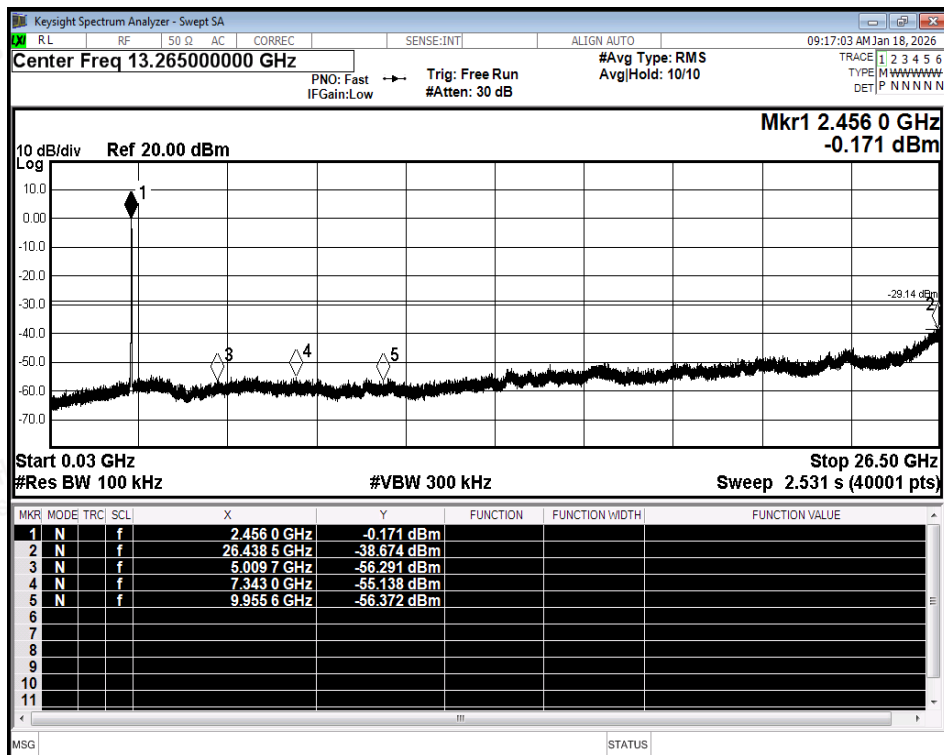
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Tx. Spurious NVNT n20 2462MHz Ant1 Emission



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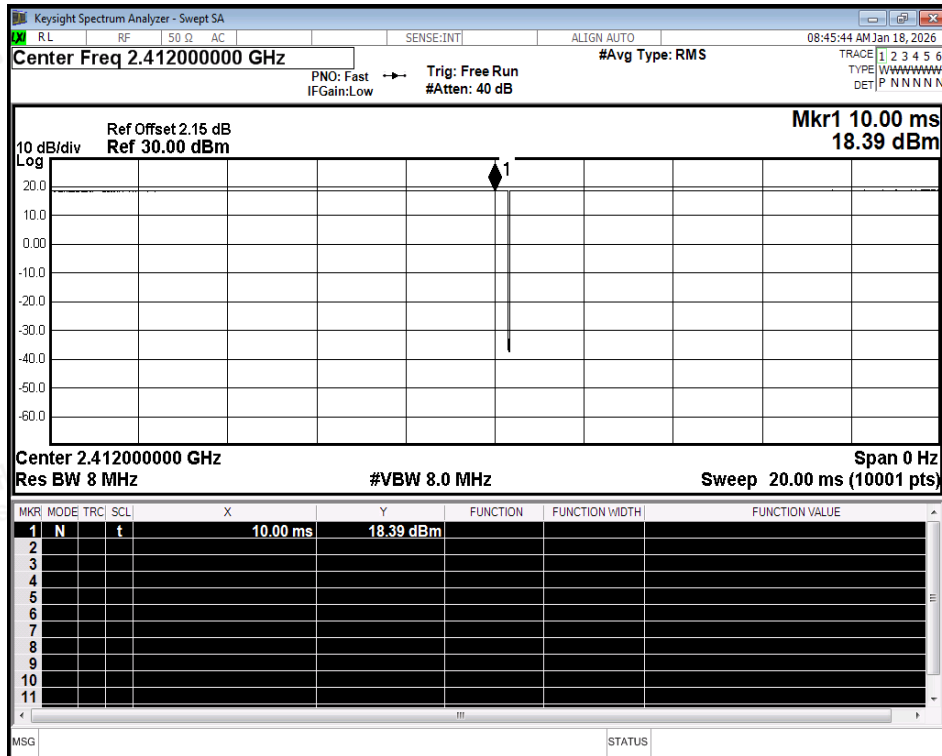


B.6 Duty Cycle

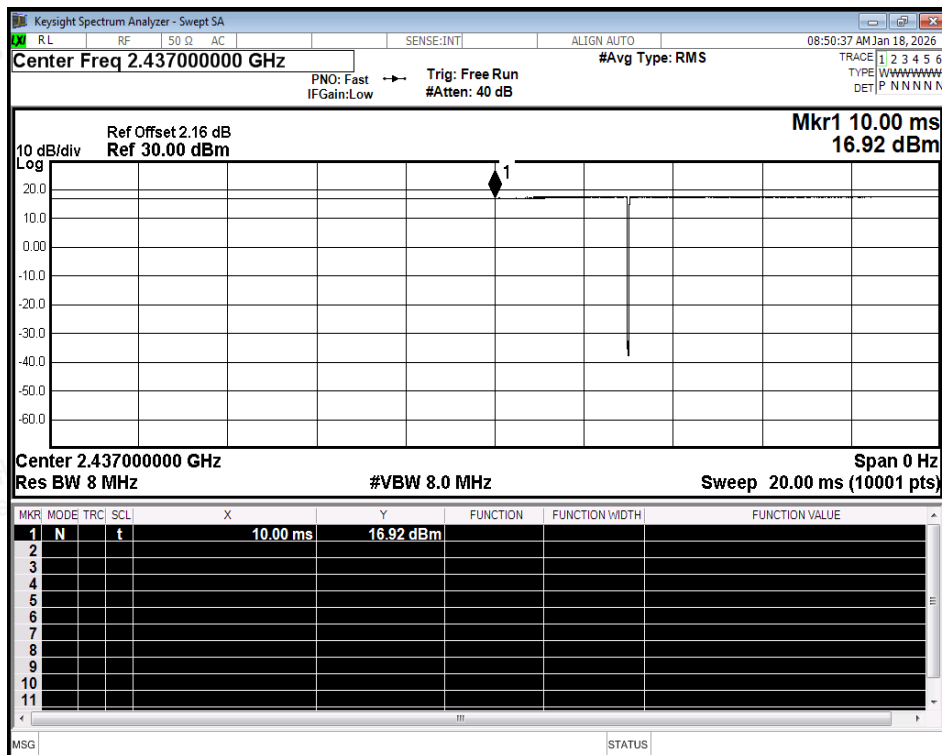
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	b	2412	Ant1	99.72	0.01	0
NVNT	b	2437	Ant1	99.72	0.01	0
NVNT	b	2462	Ant1	99.72	0.01	0
NVNT	g	2412	Ant1	97.75	0.1	0.37
NVNT	g	2437	Ant1	97.75	0.1	0.37
NVNT	g	2462	Ant1	97.75	0.1	0.37
NVNT	n20	2412	Ant1	97.33	0.12	0.44
NVNT	n20	2437	Ant1	97.25	0.12	0.44
NVNT	n20	2462	Ant1	97.25	0.12	0.44

Note: offset=System attenuation +cabal loss





Duty Cycle NVNT b 2412MHz Ant1



Duty Cycle NVNT b 2437MHz Ant1

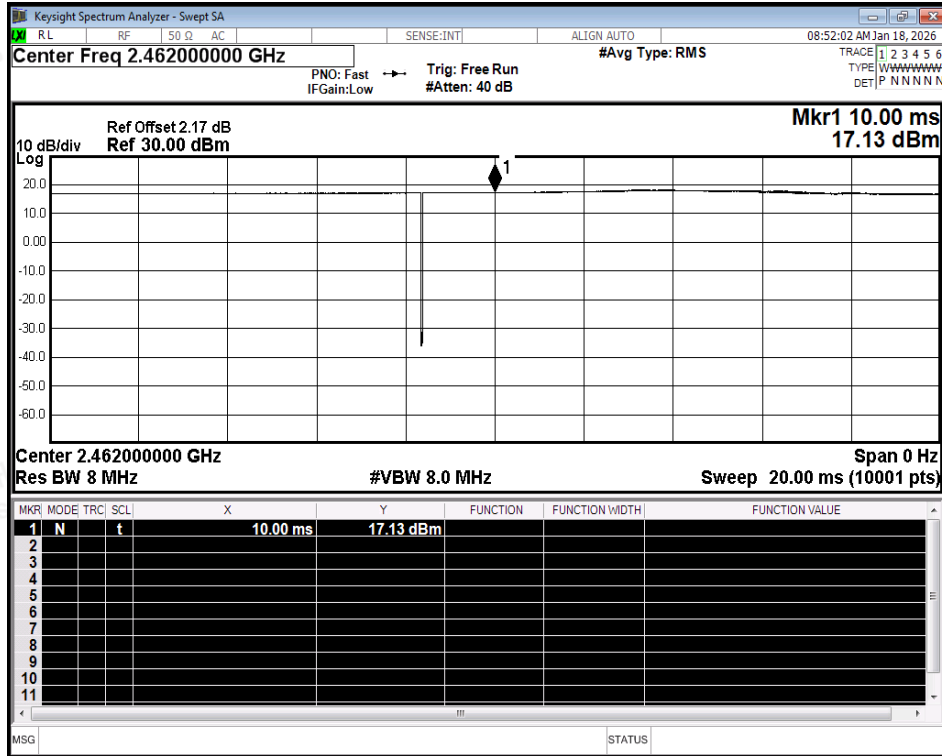


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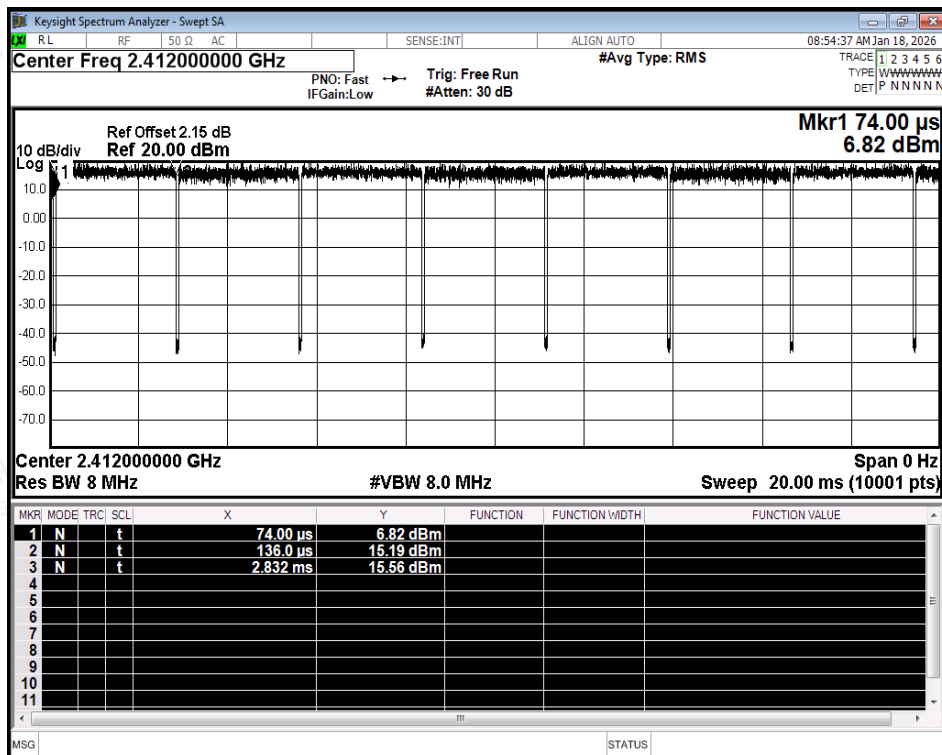
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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Duty Cycle NVNT b 2462MHz Ant1



Duty Cycle NVNT g 2412MHz Ant1

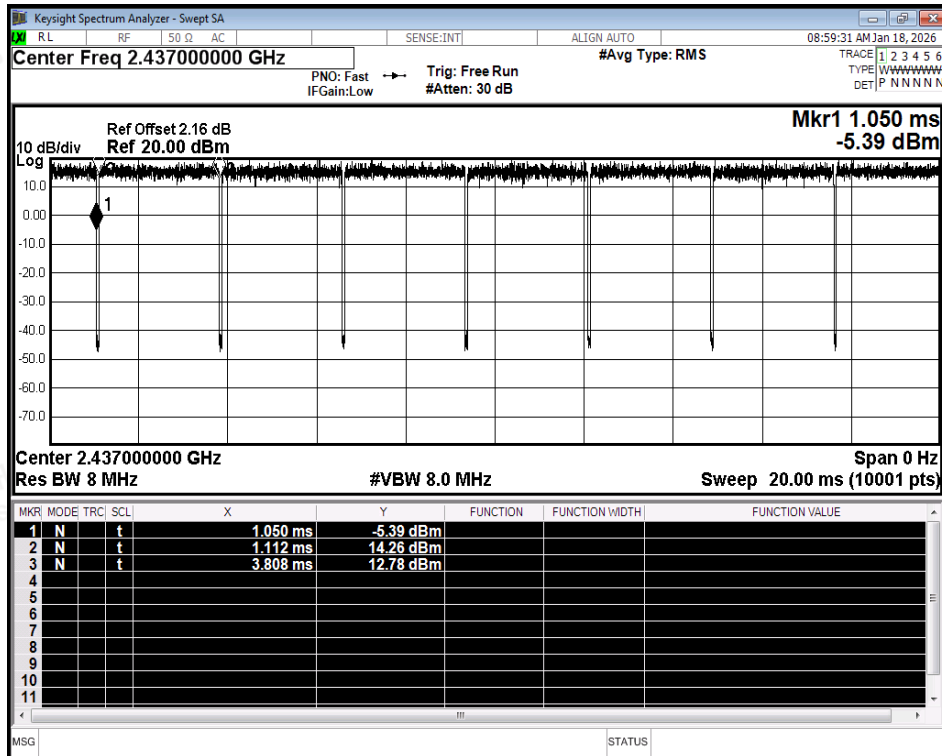


Shenzhen LCS Compliance Testing Laboratory Ltd.

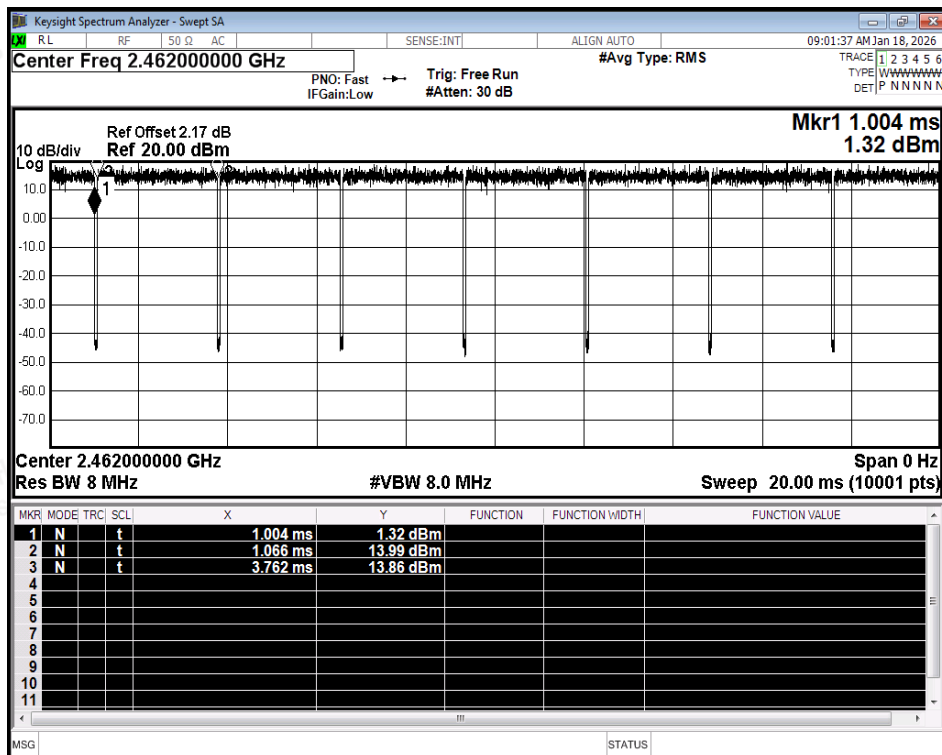
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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Duty Cycle NVNT g 2437MHz Ant1



Duty Cycle NVNT g 2462MHz Ant1

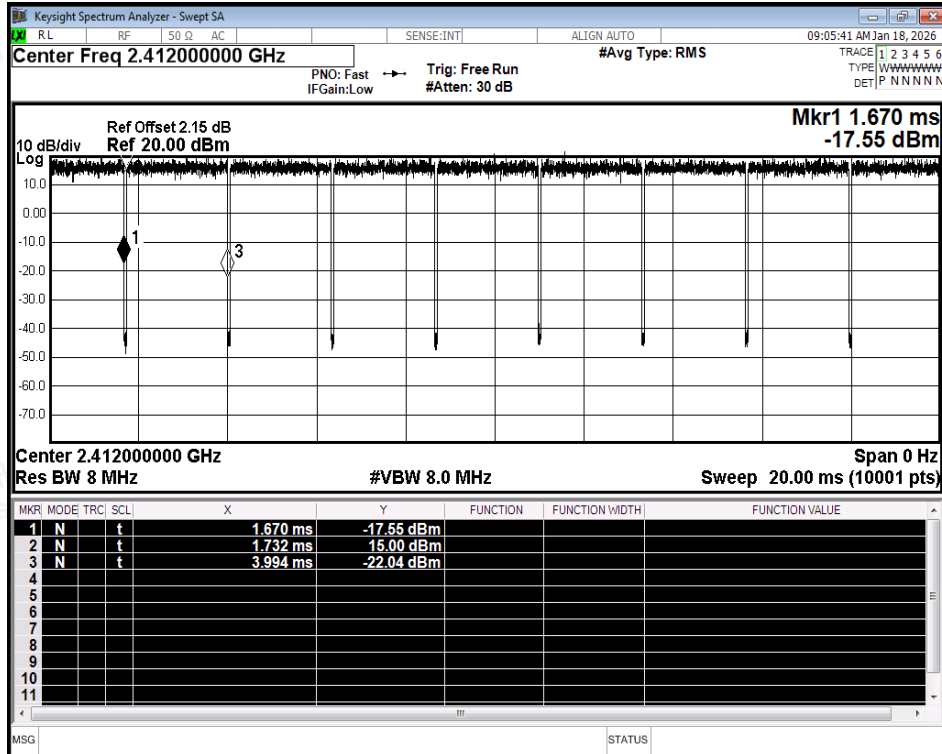


Shenzhen LCS Compliance Testing Laboratory Ltd.

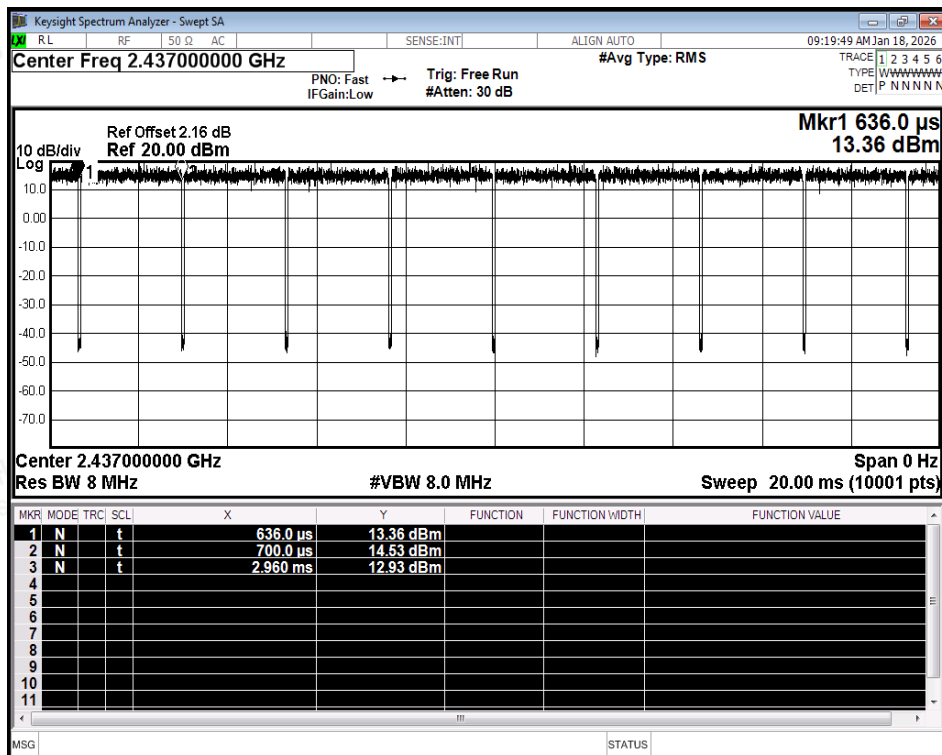
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Duty Cycle NVNT n20 2412MHz Ant1



Duty Cycle NVNT n20 2437MHz Ant1

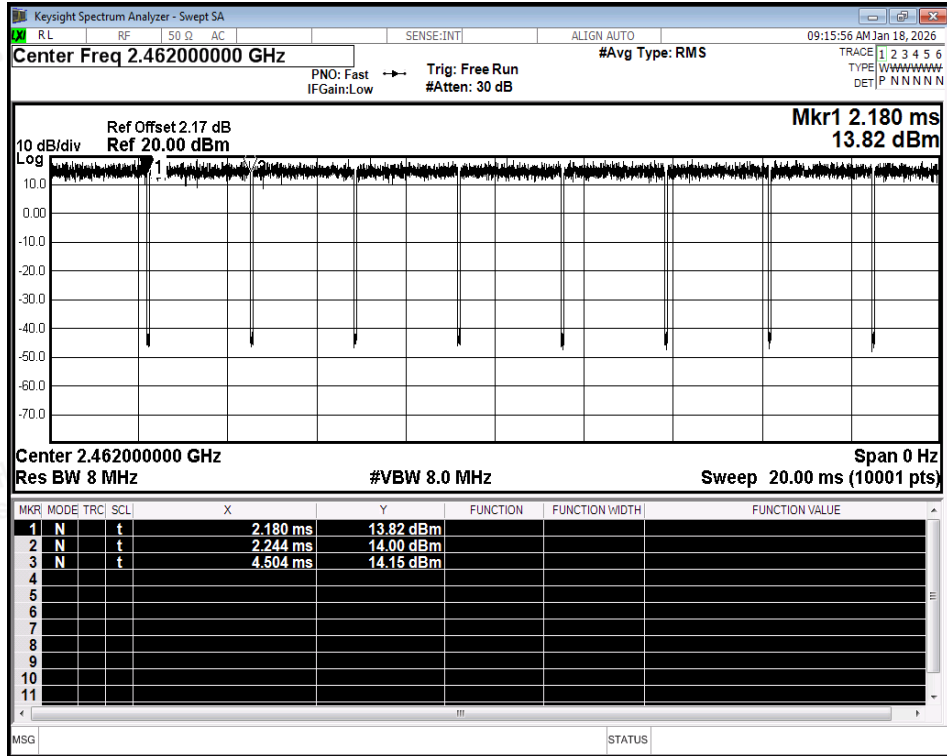


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B.7 Restrict Band

Condition	Mode	Frequency (MHz)	Antenna	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	b	2412	Ant1	2310	-46.87	2.499	50.89	Peak	74	Pass
NVNT	b	2412	Ant1	2310	-53.56	2.499	44.20	Average	54	Pass
NVNT	b	2412	Ant1	2385.465	-42.95	2.499	54.81	Peak	74	Pass
NVNT	b	2412	Ant1	2389.911	-51.59	2.499	46.17	Average	54	Pass
NVNT	b	2412	Ant1	2390	-44.85	2.499	52.91	Peak	74	Pass
NVNT	b	2412	Ant1	2390	-51.36	2.499	46.40	Average	54	Pass
NVNT	b	2462	Ant1	2483.5	-41.7	2.499	56.06	Peak	74	Pass
NVNT	b	2462	Ant1	2483.5	-50.56	2.499	47.20	Average	54	Pass
NVNT	b	2462	Ant1	2483.941	-35.2	2.499	62.56	Peak	74	Pass
NVNT	b	2462	Ant1	2483.782	-50.53	2.499	47.23	Average	54	Pass
NVNT	b	2462	Ant1	2500	-45.44	2.499	52.32	Peak	74	Pass
NVNT	b	2462	Ant1	2500	-53.44	2.499	44.32	Average	54	Pass
NVNT	g	2412	Ant1	2310	-56.05	2.499	41.71	Peak	74	Pass
NVNT	g	2412	Ant1	2310	-63.15	2.499	34.61	Average	54	Pass
NVNT	g	2412	Ant1	2389.911	-36.32	2.499	61.44	Peak	74	Pass
NVNT	g	2412	Ant1	2389.911	-49.17	2.499	48.59	Average	54	Pass
NVNT	g	2412	Ant1	2390	-34.42	2.499	63.34	Peak	74	Pass
NVNT	g	2412	Ant1	2390	-48.75	2.499	49.01	Average	54	Pass
NVNT	g	2462	Ant1	2483.5	-32.88	2.499	64.88	Peak	74	Pass
NVNT	g	2462	Ant1	2483.5	-45.65	2.499	52.11	Average	54	Pass
NVNT	g	2462	Ant1	2484.471	-28.53	2.499	69.23	Peak	74	Pass
NVNT	g	2462	Ant1	2483.517	-45.65	2.499	52.11	Average	54	Pass
NVNT	g	2462	Ant1	2500	-57	2.499	40.76	Peak	74	Pass
NVNT	g	2462	Ant1	2500	-63	2.499	34.76	Average	54	Pass
NVNT	n20	2412	Ant1	2310	-54.47	2.499	43.29	Peak	74	Pass
NVNT	n20	2412	Ant1	2310	-63.14	2.499	34.62	Average	54	Pass
NVNT	n20	2412	Ant1	2389.911	-35.48	2.499	62.28	Peak	74	Pass
NVNT	n20	2412	Ant1	2389.911	-50.34	2.499	47.42	Average	54	Pass
NVNT	n20	2412	Ant1	2390	-38.48	2.499	59.28	Peak	74	Pass
NVNT	n20	2412	Ant1	2390	-50.37	2.499	47.39	Average	54	Pass
NVNT	n20	2462	Ant1	2483.5	-35.72	2.499	62.04	Peak	74	Pass
NVNT	n20	2462	Ant1	2483.5	-46.9	2.499	50.86	Average	54	Pass
NVNT	n20	2462	Ant1	2483.676	-30.03	2.499	67.73	Peak	74	Pass
NVNT	n20	2462	Ant1	2483.57	-46.57	2.499	51.19	Average	54	Pass
NVNT	n20	2462	Ant1	2500	-56.43	2.499	41.33	Peak	74	Pass
NVNT	n20	2462	Ant1	2500	-62.98	2.499	34.78	Average	54	Pass

Note :offset=System attenuation +cabal loss

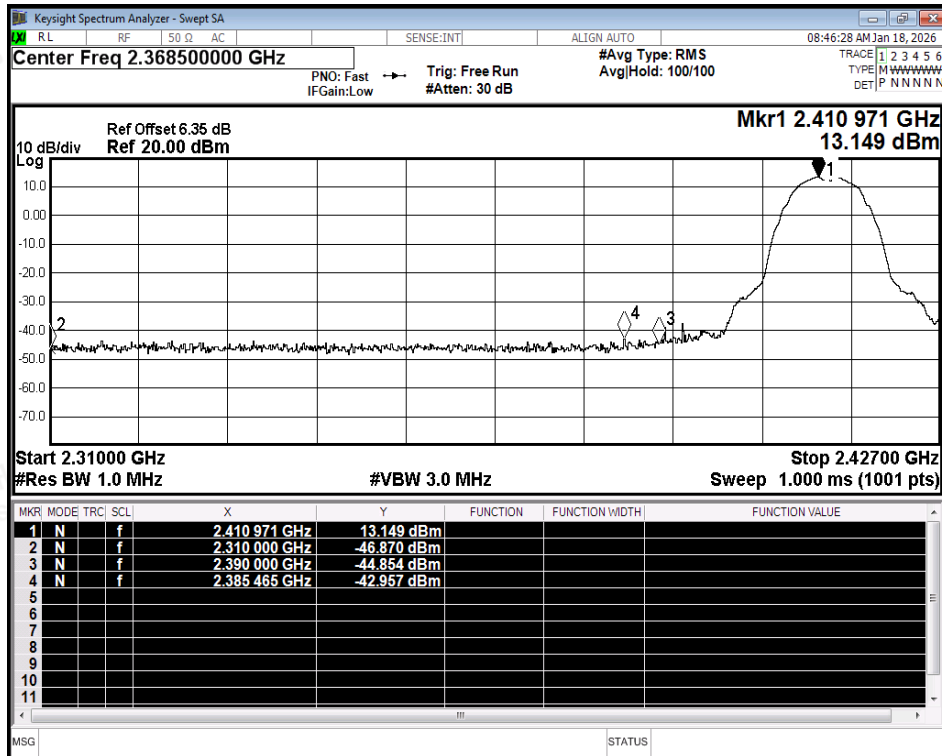


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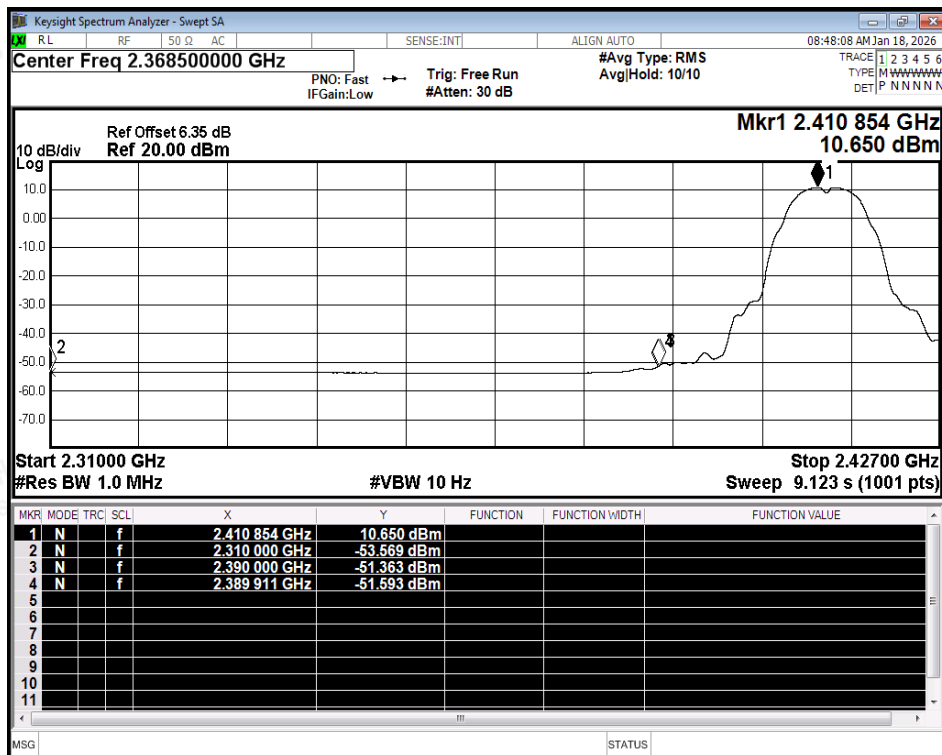
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Restrict Band NVNT b 2412MHz Ant1 Peak



Restrict Band NVNT b 2412MHz Ant1 Average

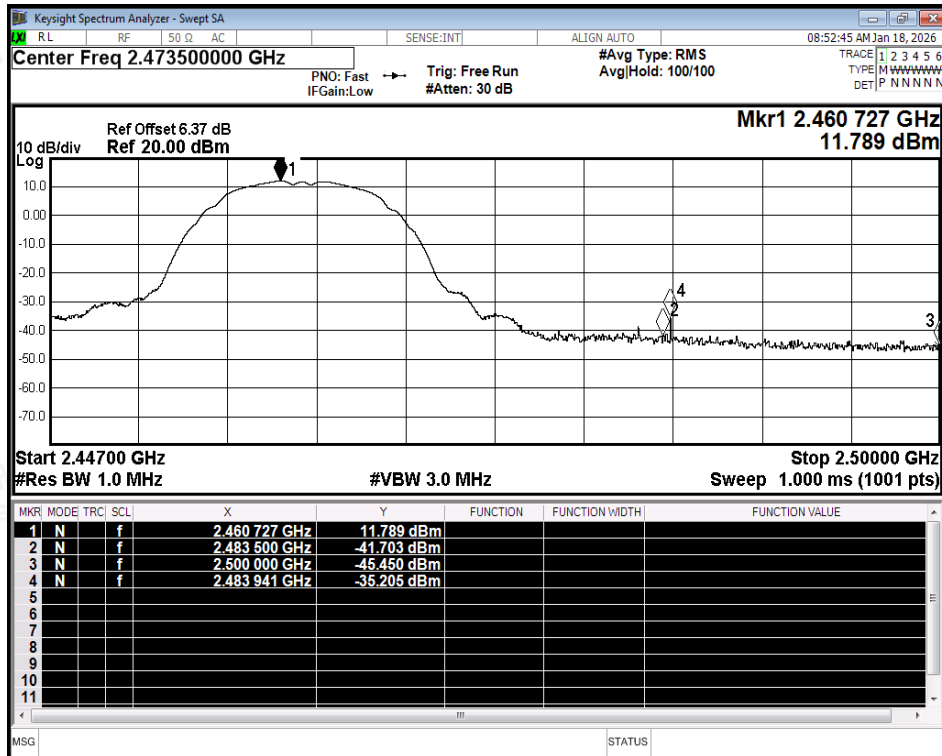


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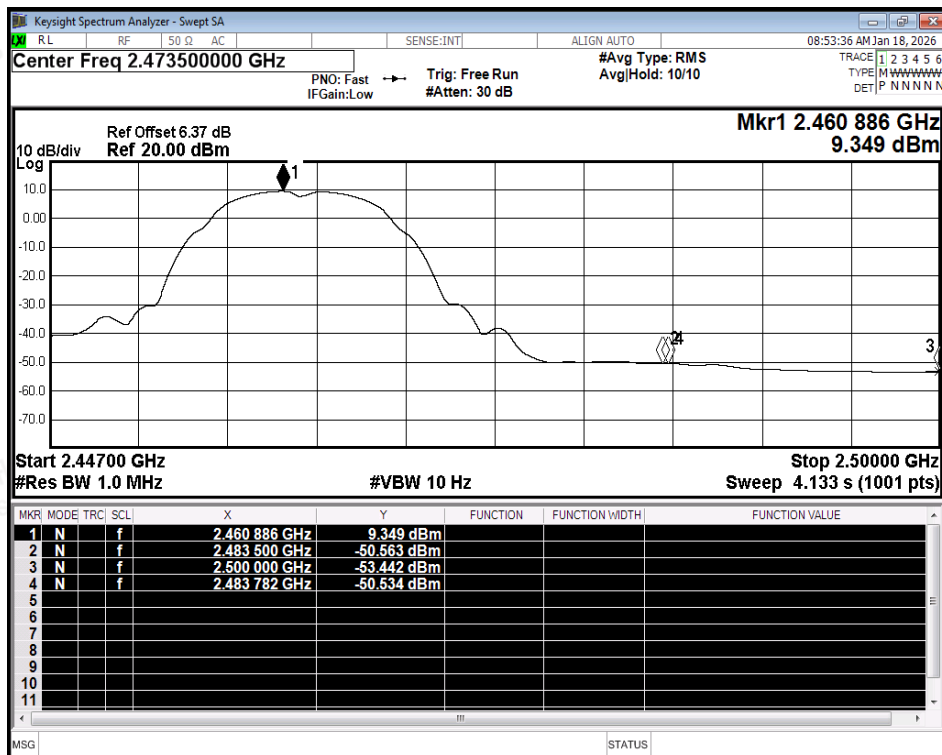
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Restrict Band NVNT b 2462MHz Ant1 Peak



Restrict Band NVNT b 2462MHz Ant1 Average

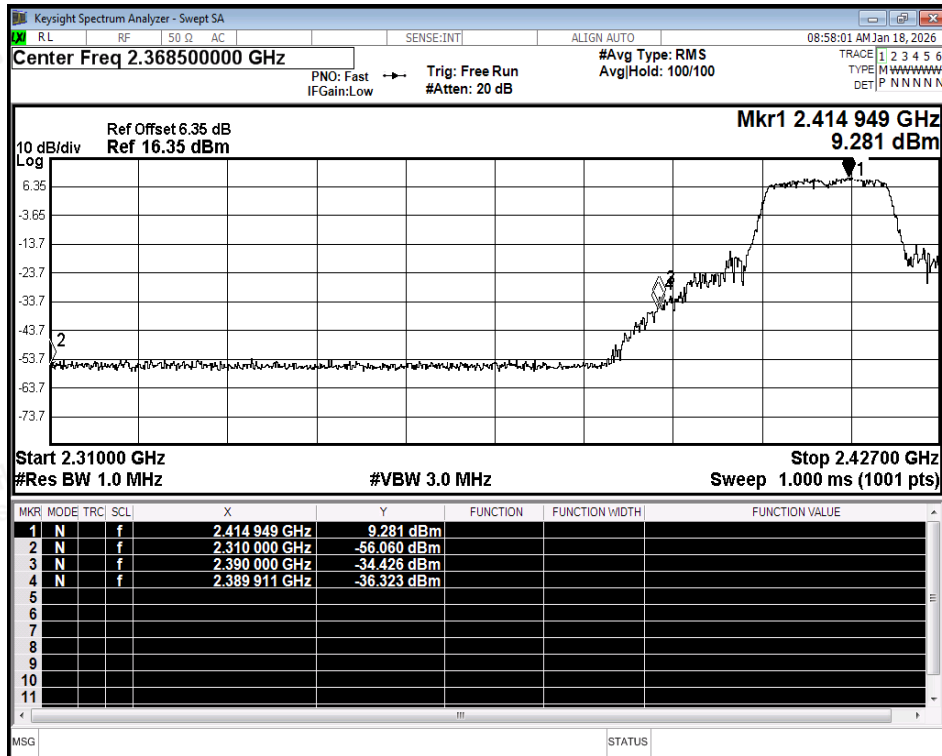


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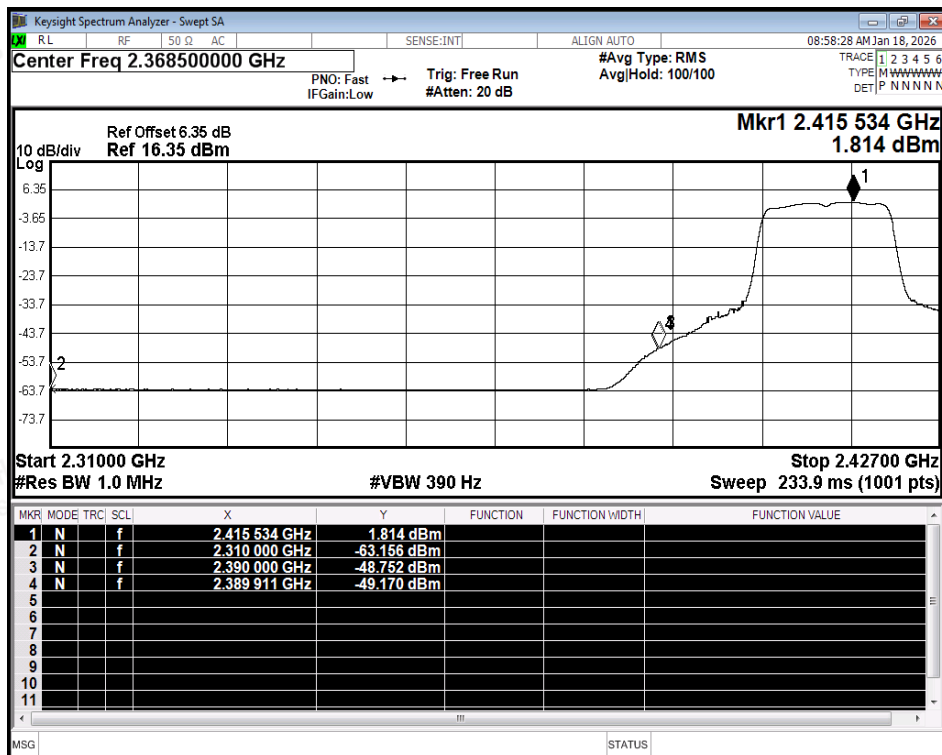
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Restrict Band NVNT g 2412MHz Ant1 Peak



Restrict Band NVNT g 2412MHz Ant1 Average

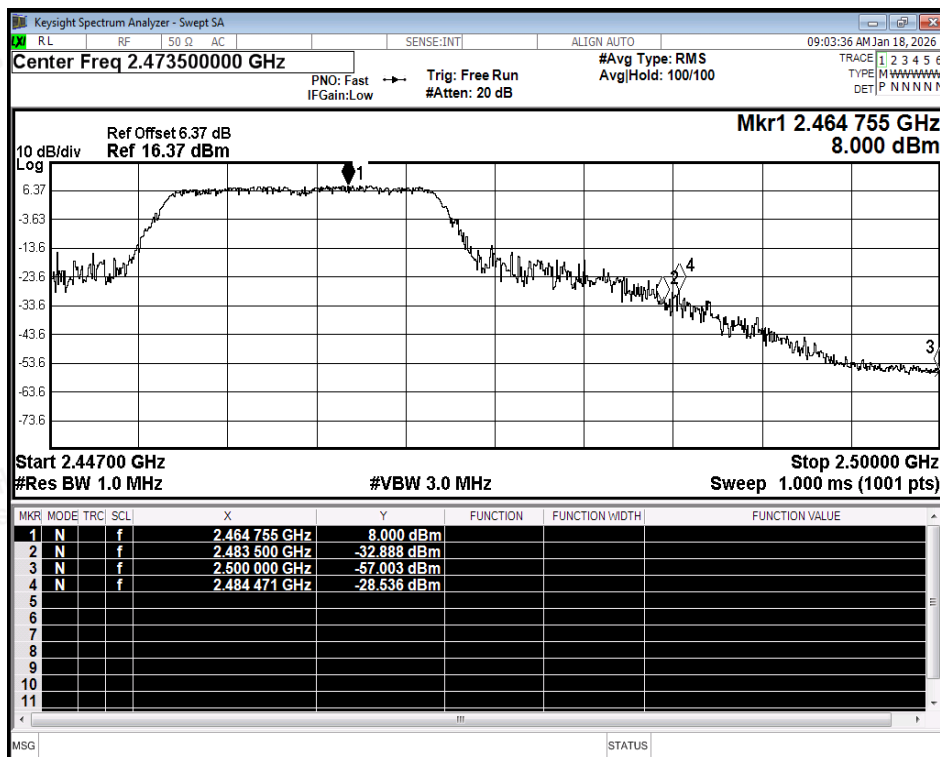


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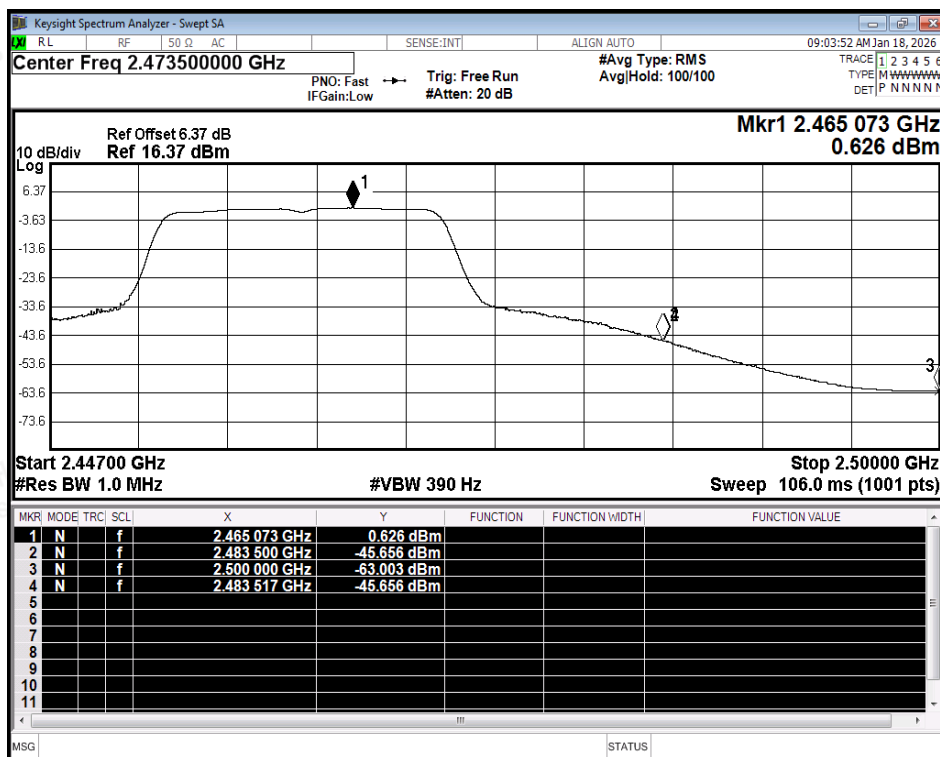
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Restrict Band NVNT g 2462MHz Ant1 Peak



Restrict Band NVNT g 2462MHz Ant1 Average

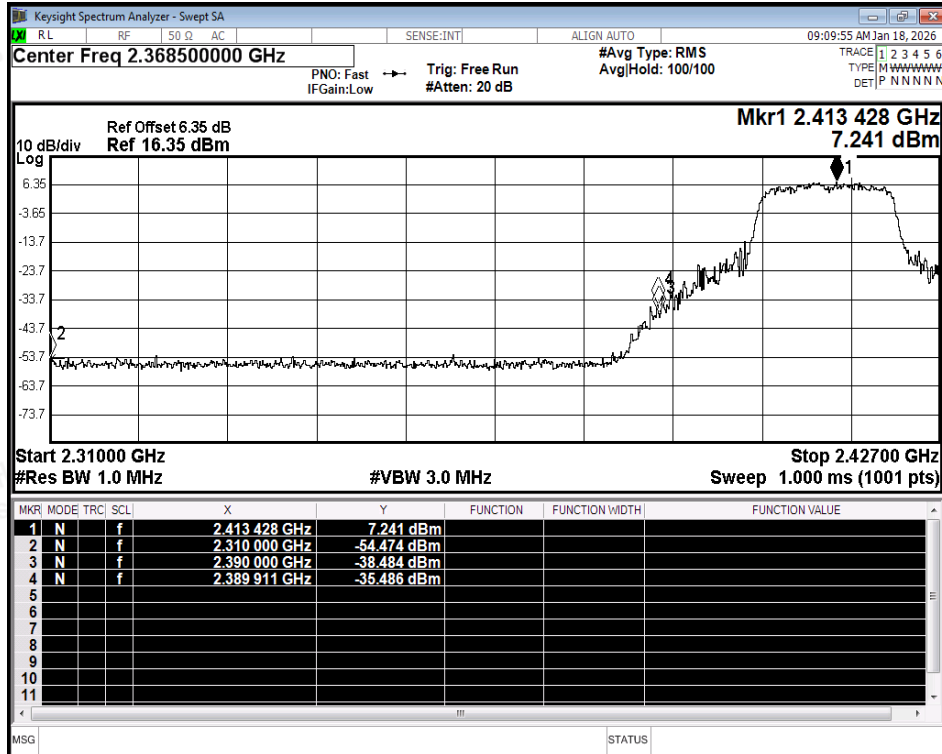


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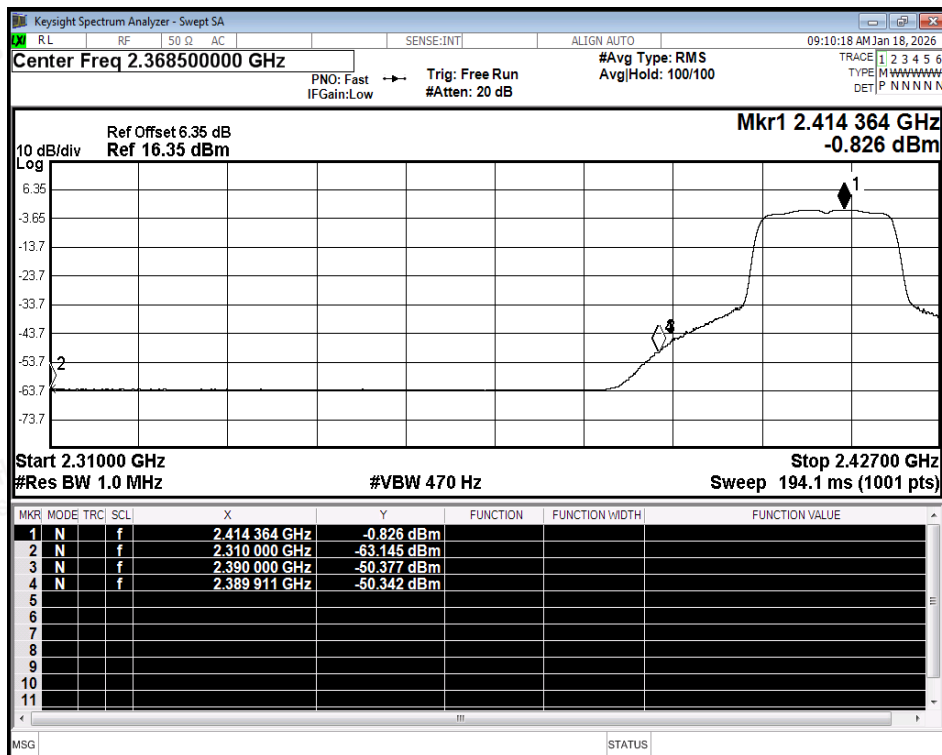
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Restrict Band NVNT n20 2412MHz Ant1 Peak



Restrict Band NVNT n20 2412MHz Ant1 Average

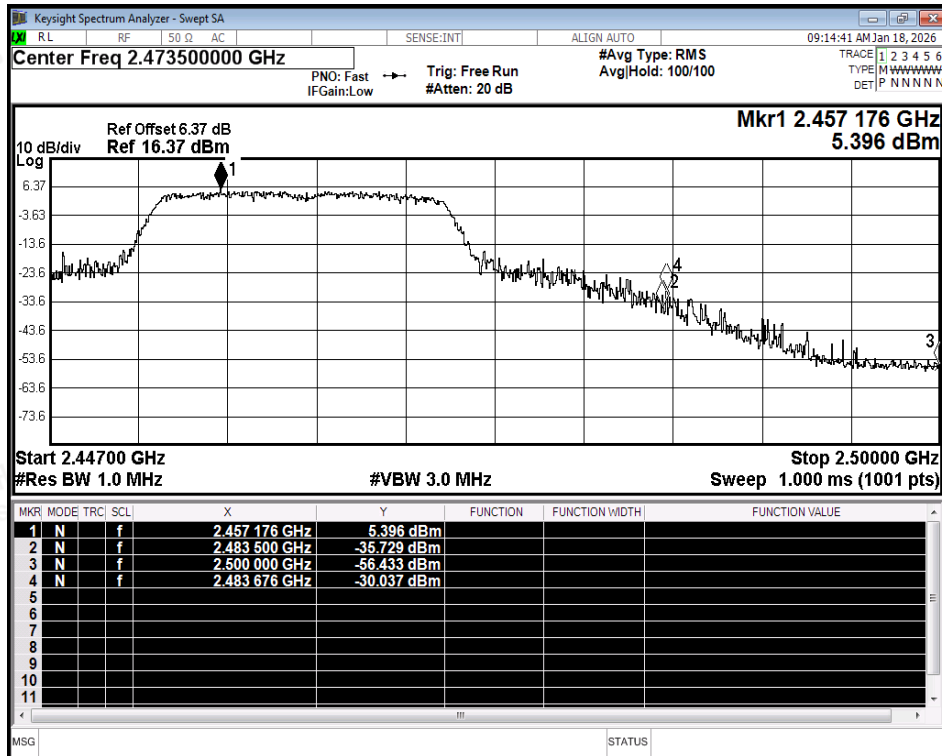


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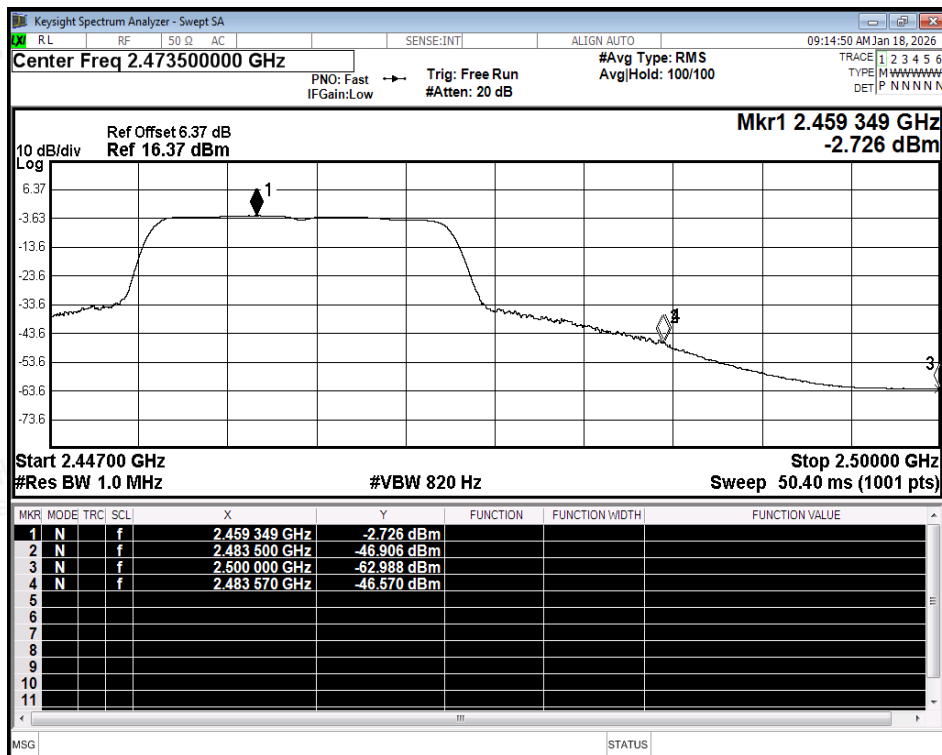
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