



Appendix B

RF Test Data for BLE (Conducted Measurement)

Product Name: PeopleLink UVC35B Dongle

Test Model: PeopleLink UVC35B-D

Environmental Conditions

Temperature:	23.5° C
Relative Humidity:	52.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Mening Su
Supervised by:	Ling Zhu





B.1 -6dB Bandwidth

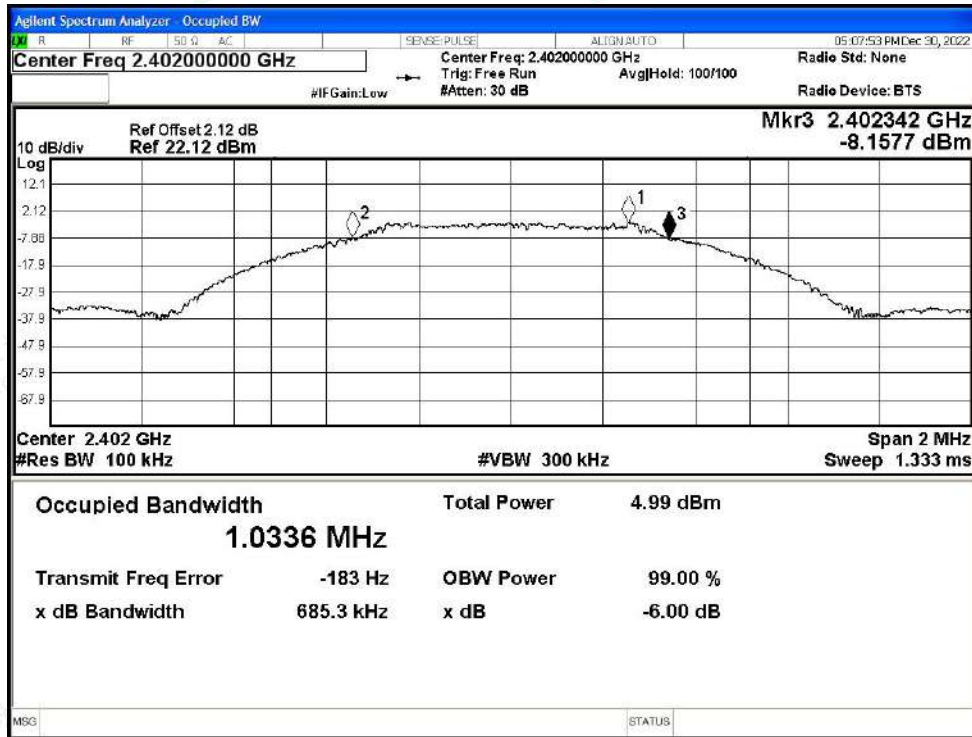
Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	BLE 1M	2402	Ant1	0.685	≥ 0.5	Pass
NVNT	BLE 1M	2440	Ant1	0.713	≥ 0.5	Pass
NVNT	BLE 1M	2480	Ant1	0.686	≥ 0.5	Pass
NVNT	BLE 2M	2402	Ant1	1.233	≥ 0.5	Pass
NVNT	BLE 2M	2440	Ant1	1.241	≥ 0.5	Pass
NVNT	BLE 2M	2480	Ant1	1.238	≥ 0.5	Pass



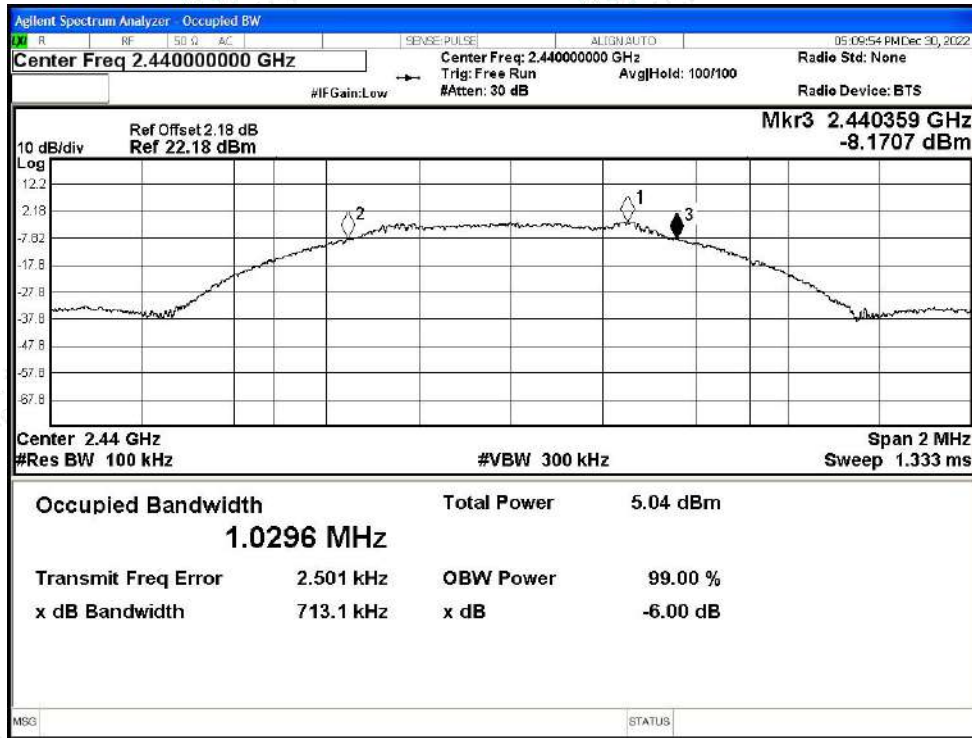


Test Graphs

-6dB Bandwidth NVNT BLE 1M 2402MHz Ant1



-6dB Bandwidth NVNT BLE 1M 2440MHz Ant1



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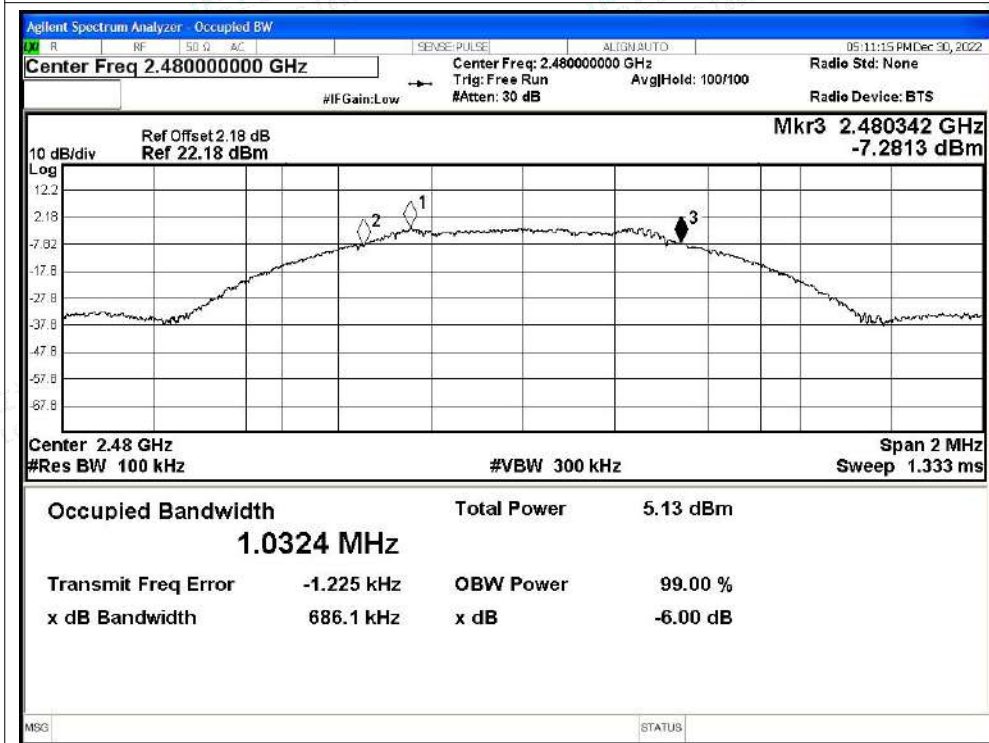
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

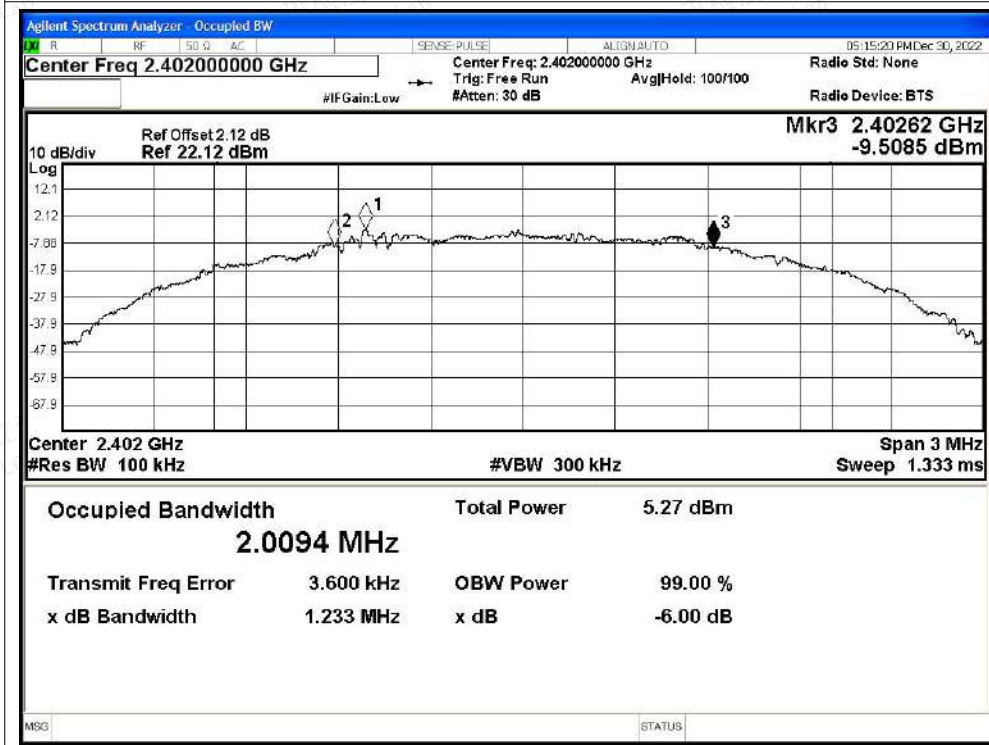
Scan code to check authenticity



-6dB Bandwidth NVNT BLE 1M 2480MHz Ant1



-6dB Bandwidth NVNT BLE 2M 2402MHz Ant1



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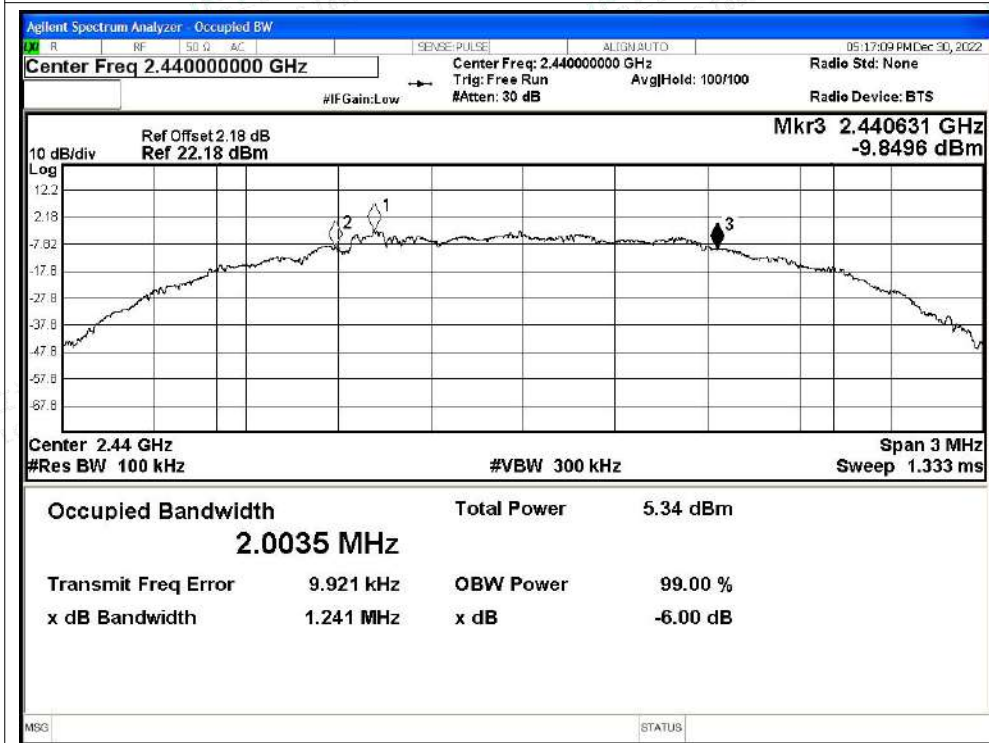
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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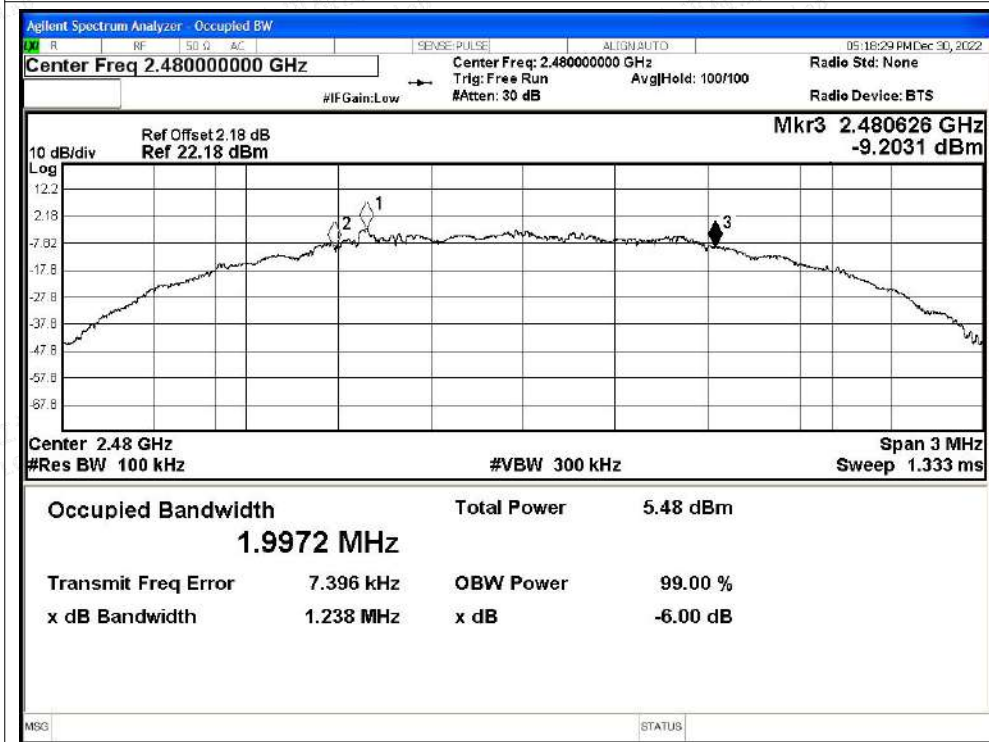
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-6dB Bandwidth NVNT BLE 2M 2440MHz Ant1



-6dB Bandwidth NVNT BLE 2M 2480MHz Ant1



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B.2 Occupied Channel Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	BLE 1M	2402	Ant1	1.027
NVNT	BLE 1M	2440	Ant1	1.027
NVNT	BLE 1M	2480	Ant1	1.029
NVNT	BLE 2M	2402	Ant1	2.011
NVNT	BLE 2M	2440	Ant1	2.016
NVNT	BLE 2M	2480	Ant1	2.011

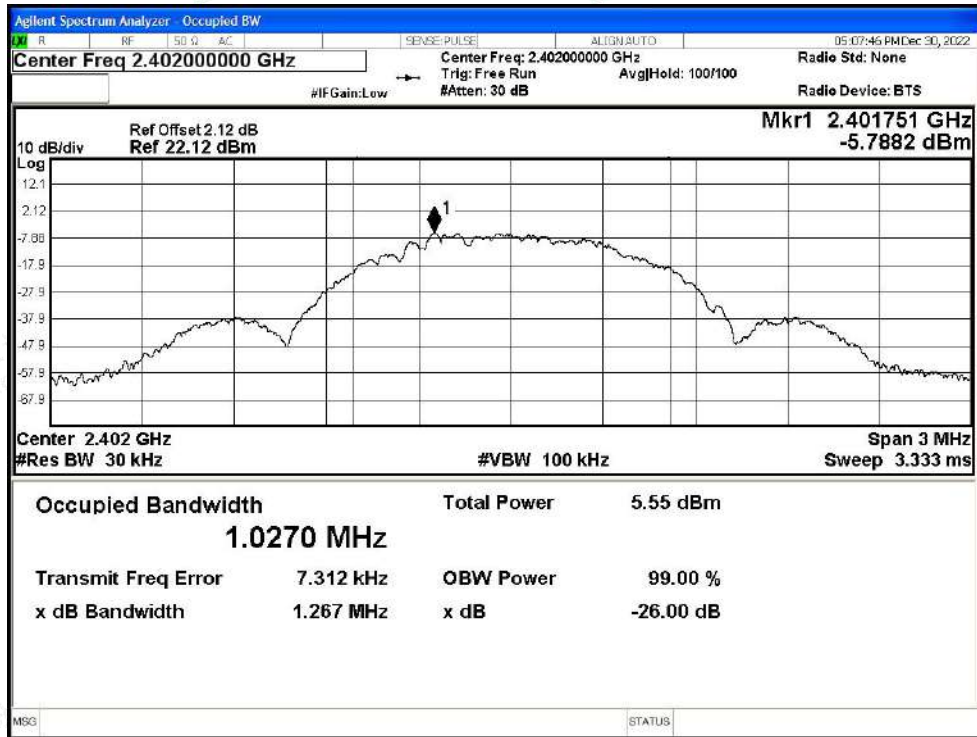


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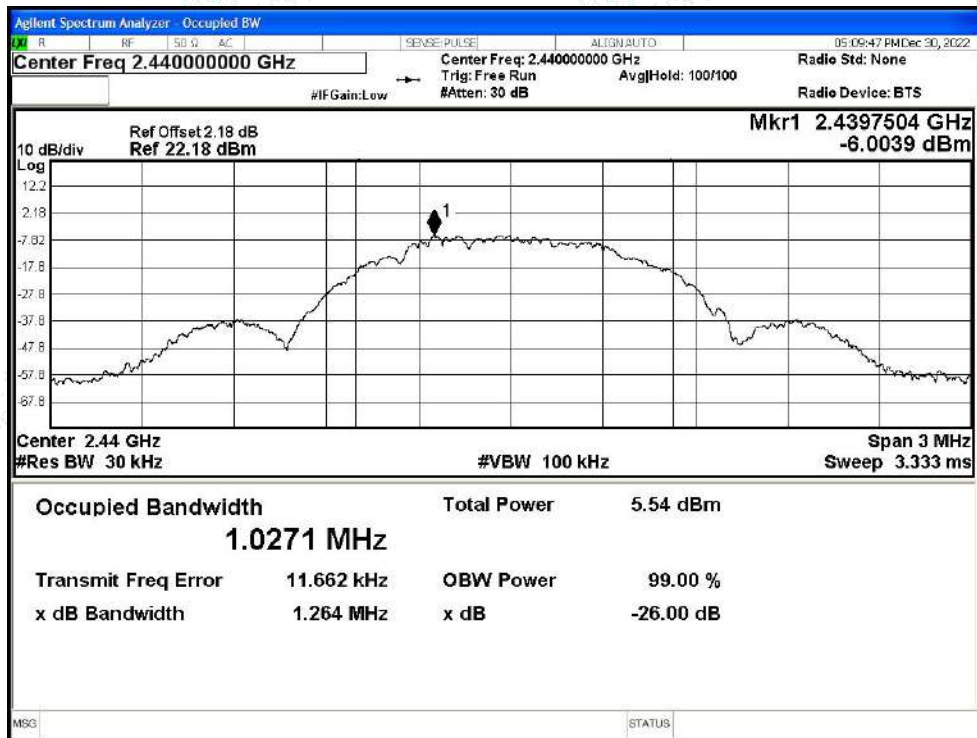


Test Graphs

OBW NVNT BLE 1M 2402MHz Ant1



OBW NVNT BLE 1M 2440MHz Ant1



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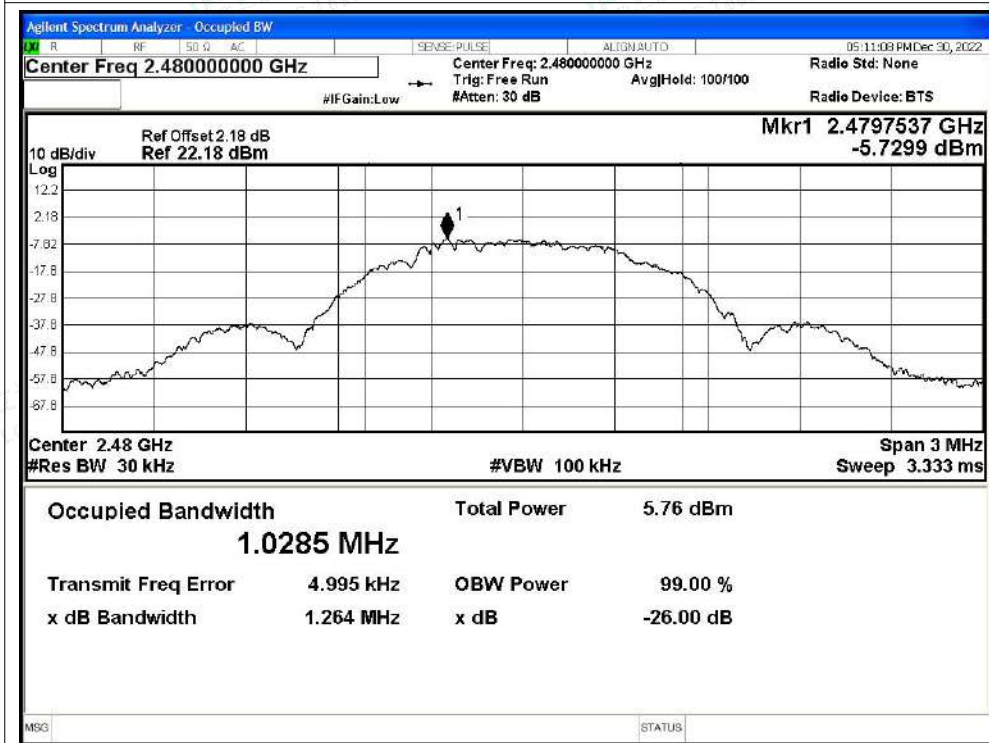
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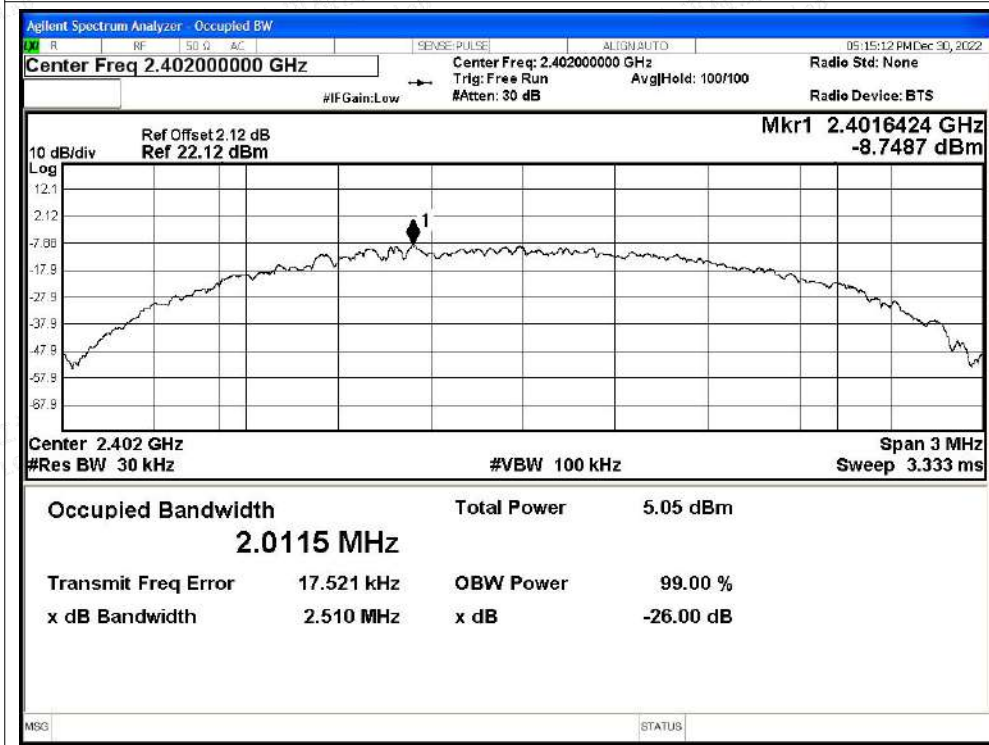
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OBW NVNT BLE 1M 2480MHz Ant1

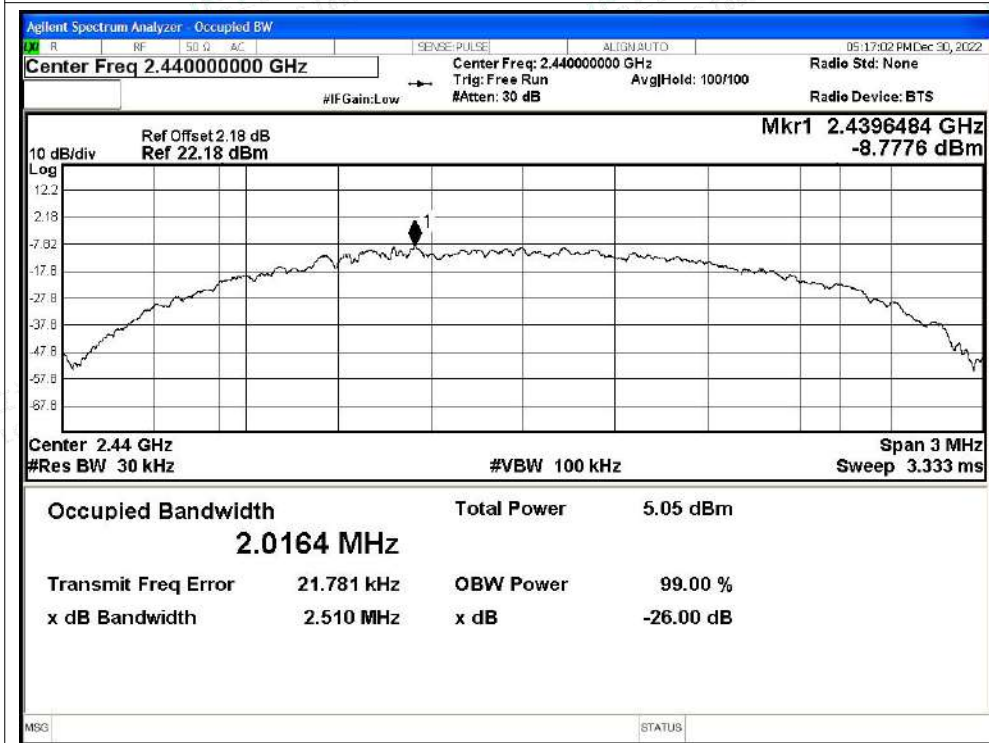


OBW NVNT BLE 2M 2402MHz Ant1

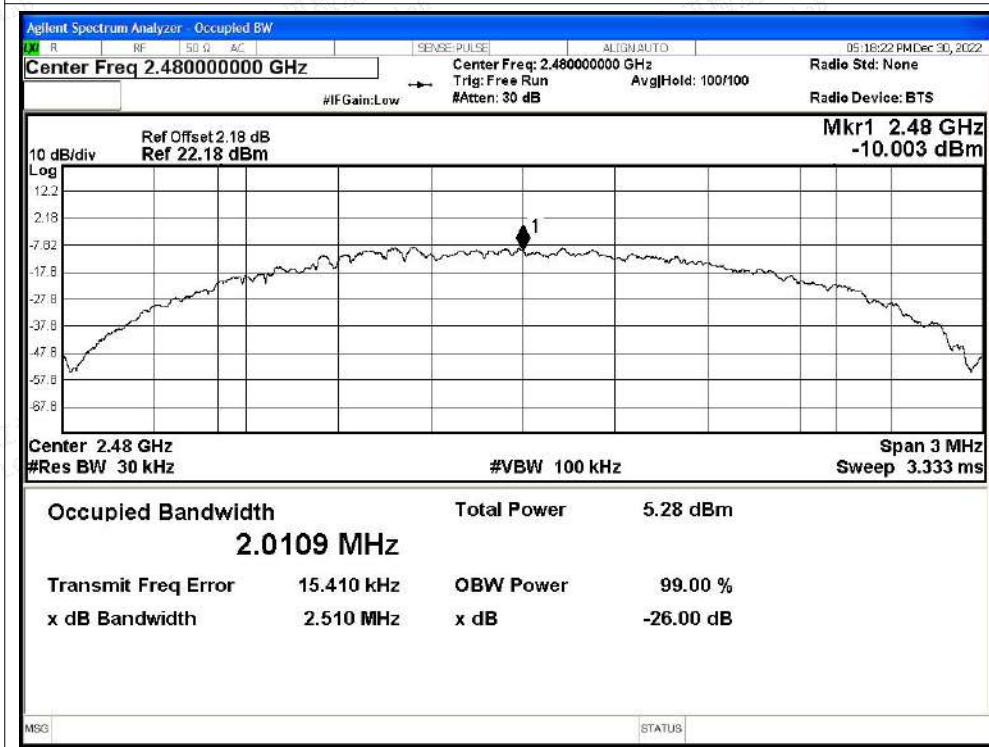




OBW NVNT BLE 2M 2440MHz Ant1



OBW NVNT BLE 2M 2480MHz Ant1



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B.3 Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	BLE 1M	2402	Ant1	-0.56	30	Pass
NVNT	BLE 1M	2440	Ant1	-0.63	30	Pass
NVNT	BLE 1M	2480	Ant1	-0.45	30	Pass
NVNT	BLE 2M	2402	Ant1	-0.69	30	Pass
NVNT	BLE 2M	2440	Ant1	-0.76	30	Pass
NVNT	BLE 2M	2480	Ant1	-0.56	30	Pass

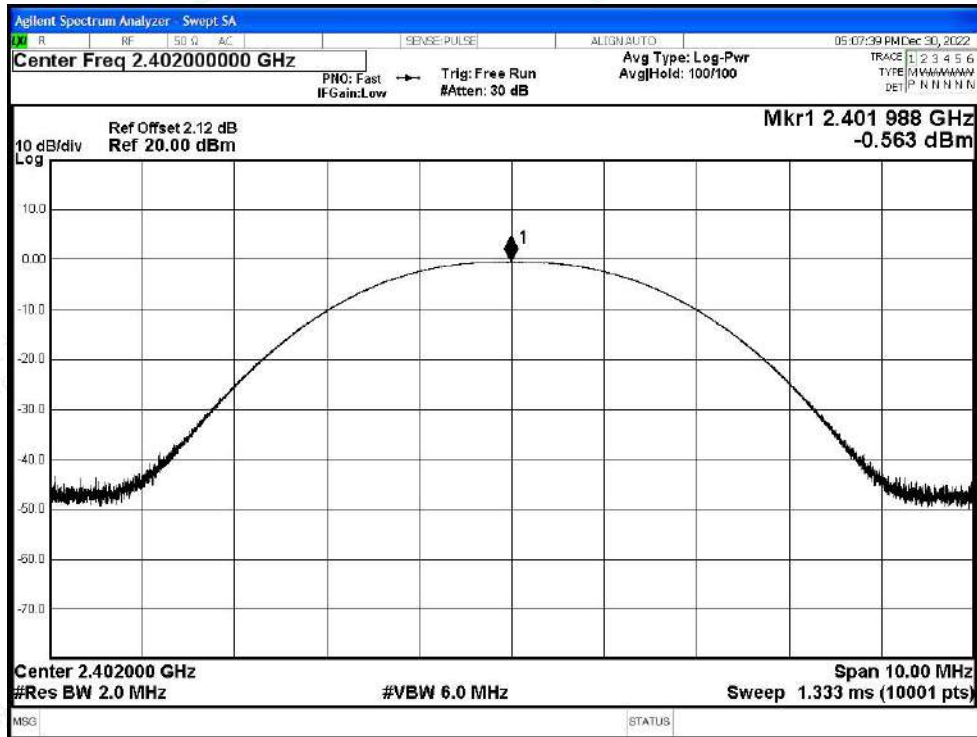


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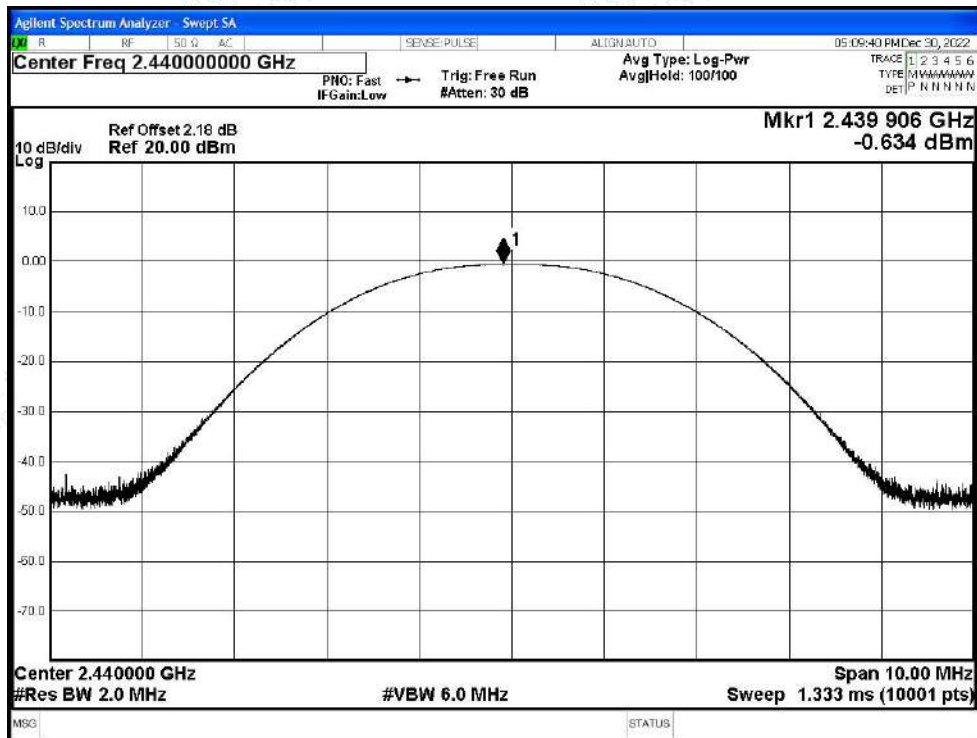


Test Graphs

Power NVNT BLE 1M 2402MHz Ant1



Power NVNT BLE 1M 2440MHz Ant1



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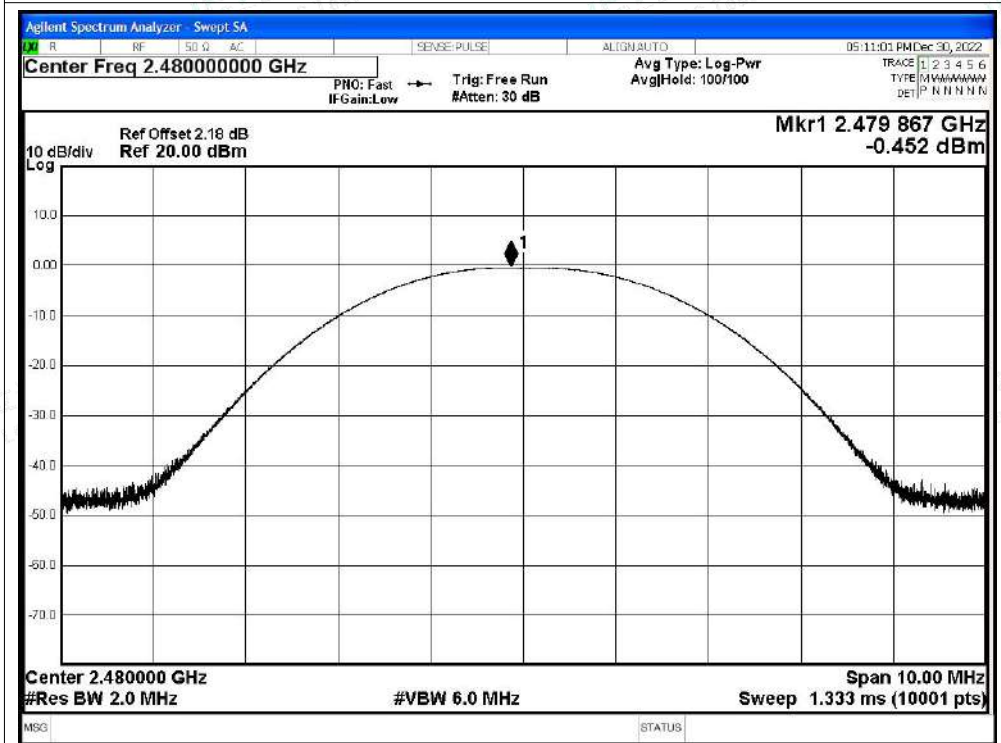
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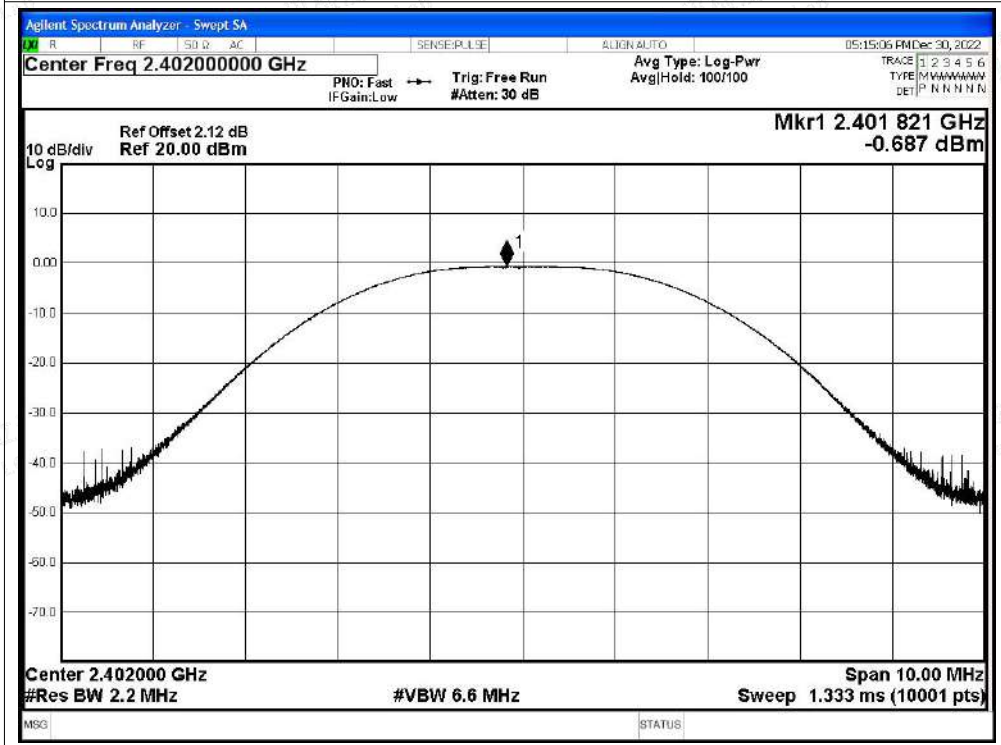
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Power NVNT BLE 1M 2480MHz Ant1

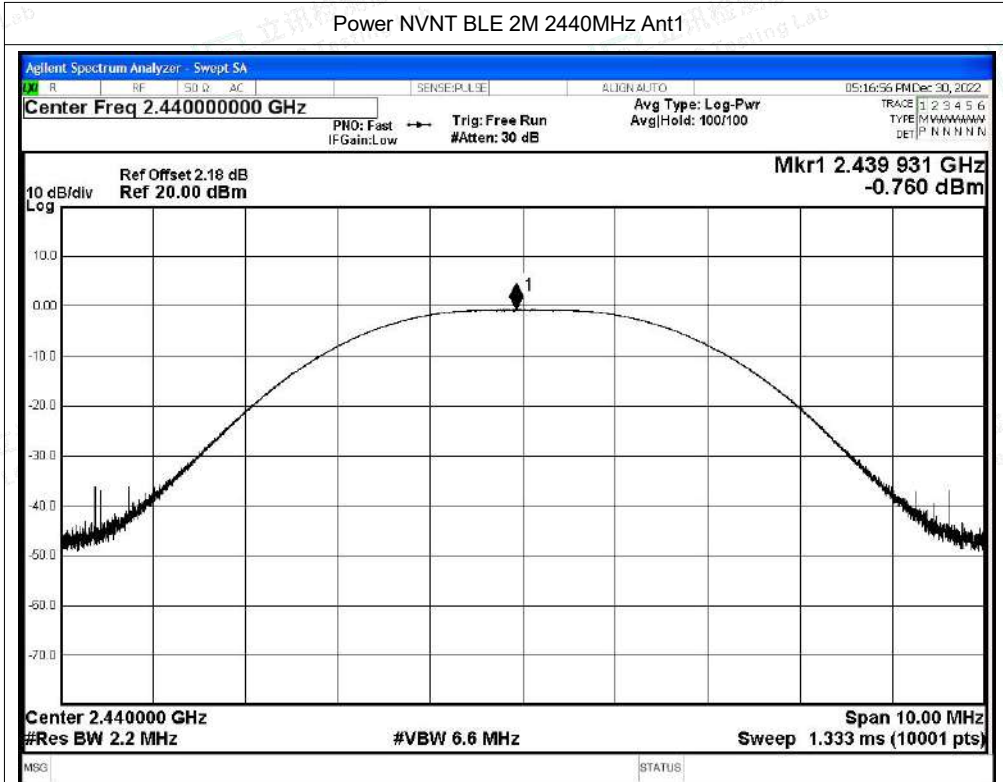


Power NVNT BLE 2M 2402MHz Ant1

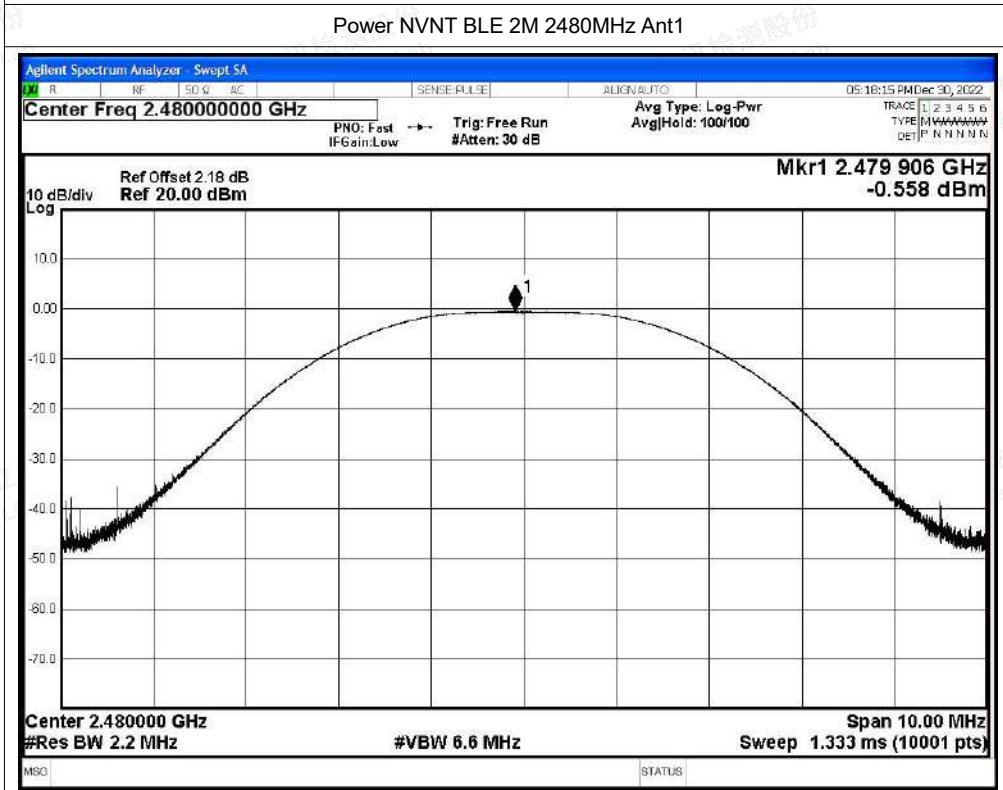




Power NVNT BLE 2M 2440MHz Ant1



Power NVNT BLE 2M 2480MHz Ant1



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B.4 Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	BLE 1M	2402	Ant1	-16.68	8	Pass
NVNT	BLE 1M	2440	Ant1	-16.8	8	Pass
NVNT	BLE 1M	2480	Ant1	-16.11	8	Pass
NVNT	BLE 2M	2402	Ant1	-20.22	8	Pass
NVNT	BLE 2M	2440	Ant1	-19.86	8	Pass
NVNT	BLE 2M	2480	Ant1	-19.99	8	Pass

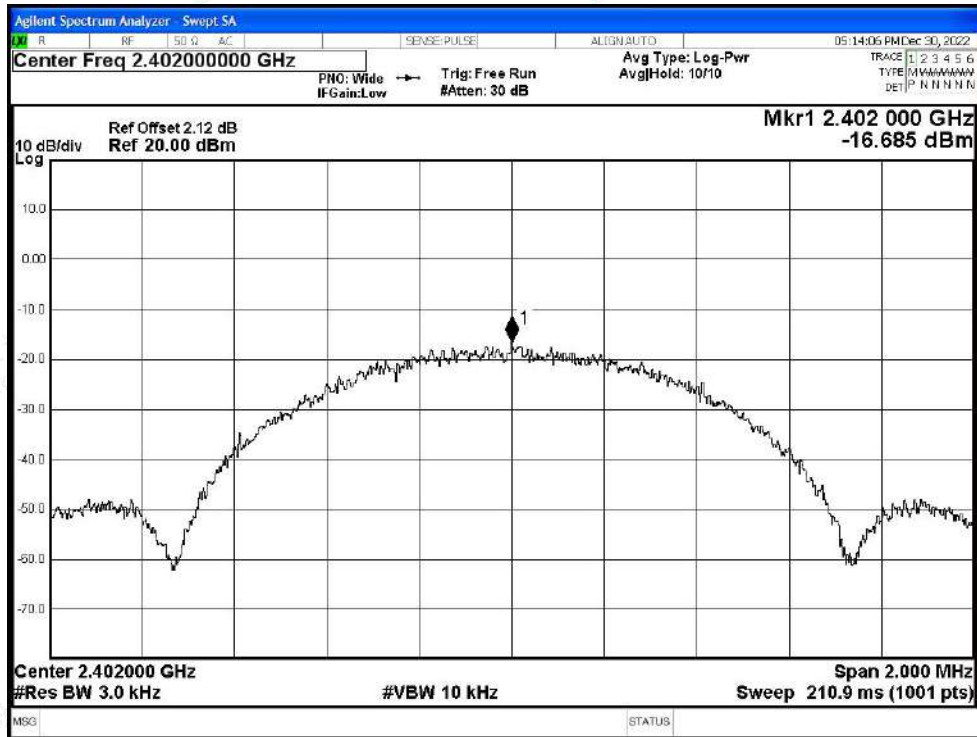


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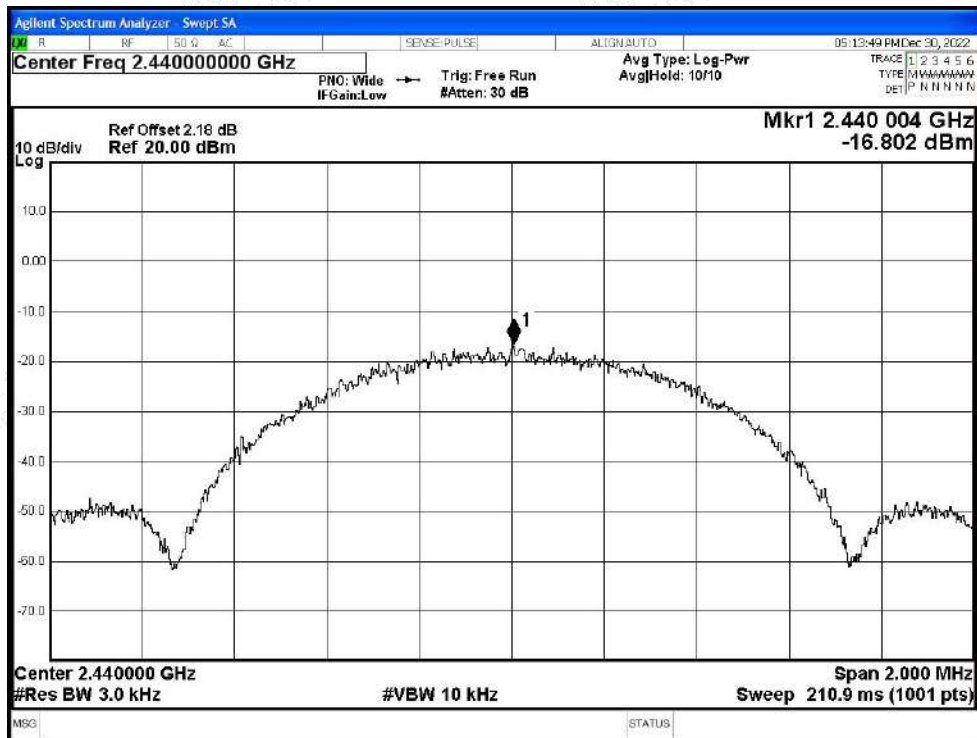


Test Graphs

PSD NVNT BLE 1M 2402MHz Ant1



PSD NVNT BLE 1M 2440MHz Ant1



Shenzhen LCS Compliance Testing Laboratory Ltd.

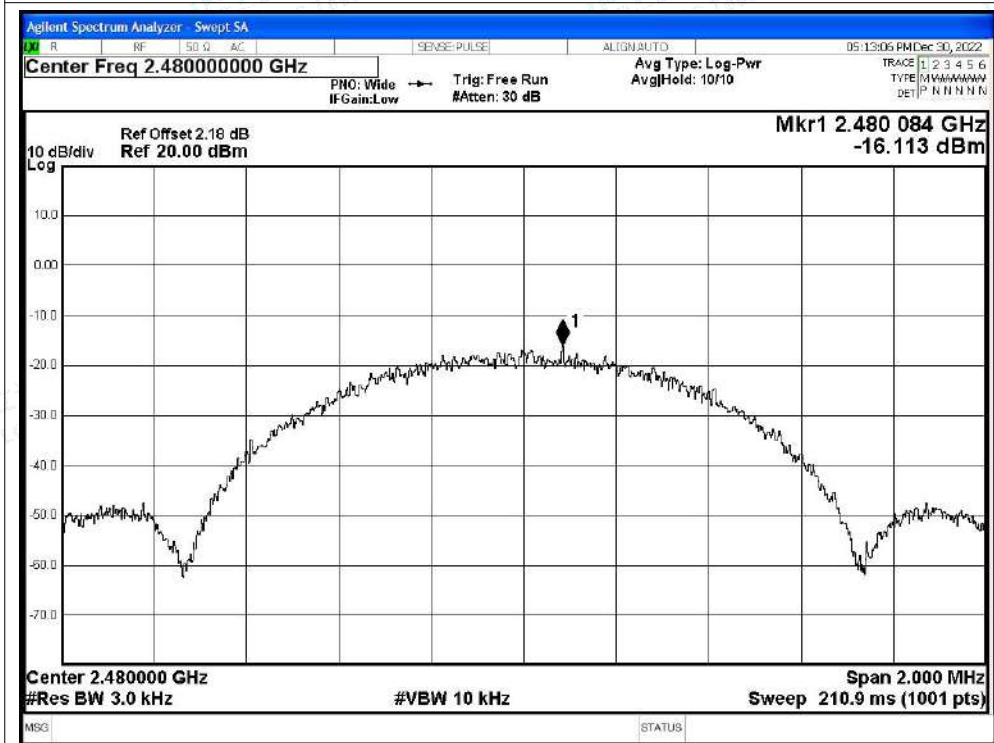
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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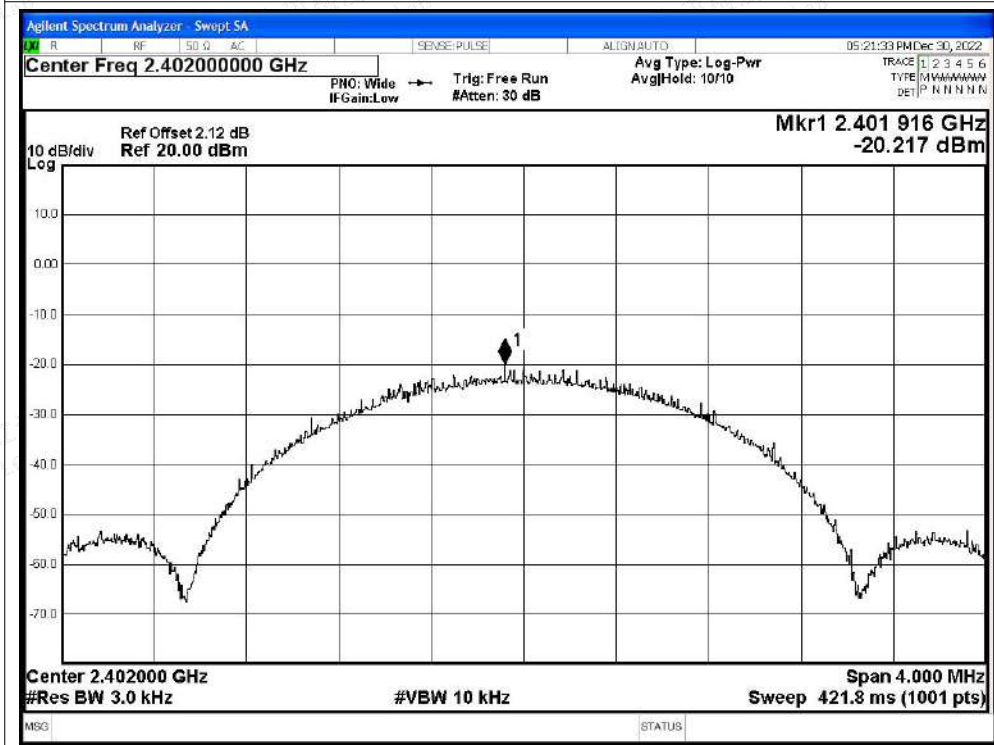
Scan code to check authenticity



PSD NVNT BLE 1M 2480MHz Ant1

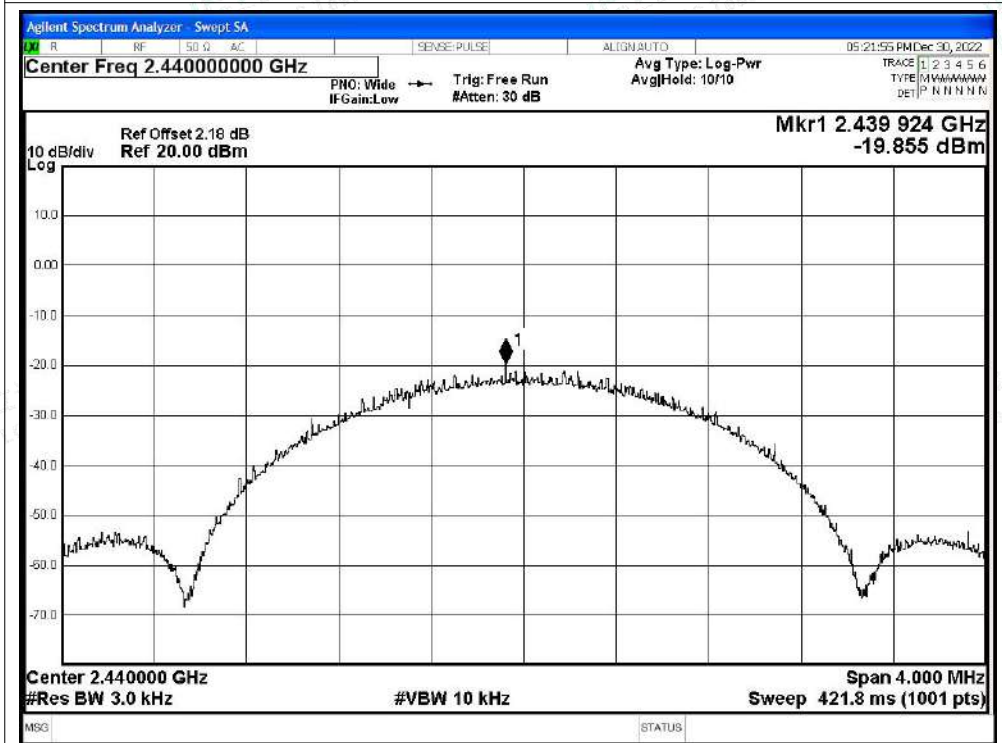


PSD NVNT BLE 2M 2402MHz Ant1

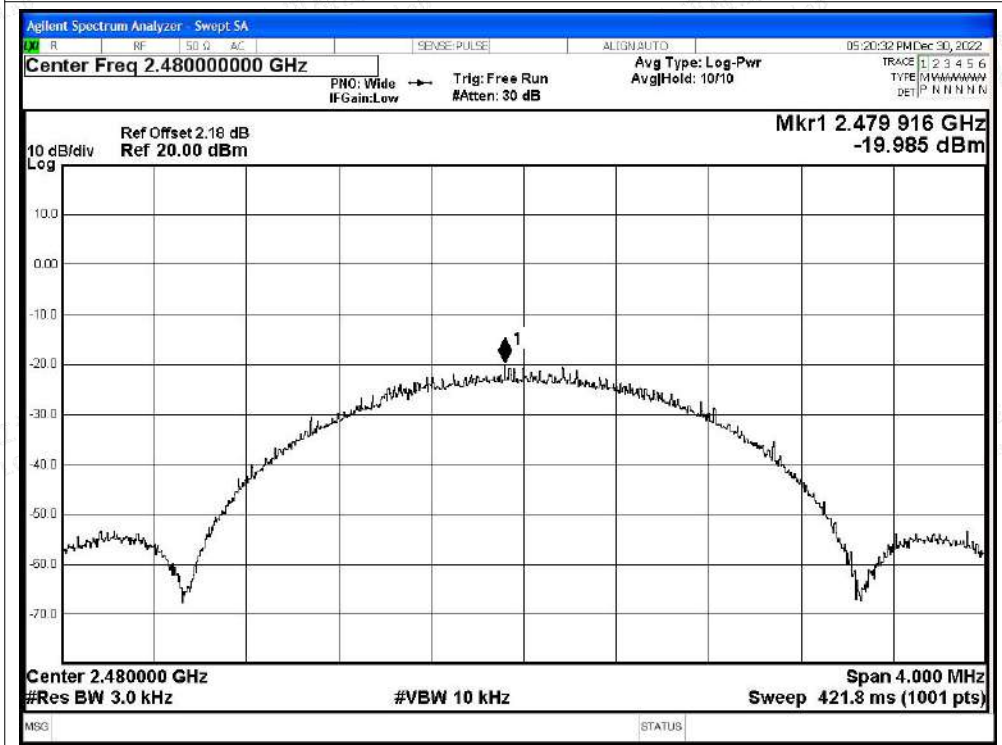




PSD NVNT BLE 2M 2440MHz Ant1



PSD NVNT BLE 2M 2480MHz Ant1





B.5 Band Edge

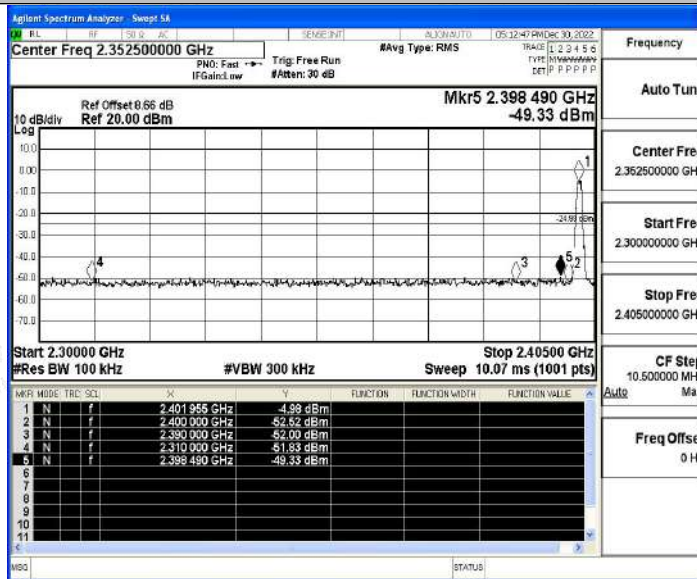
TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	-4.98	-49.33	≤-24.98	PASS
		High	2480	-4.22	-48.55	≤-24.22	PASS
BLE_2M	Ant1	Low	2402	-5.63	-37.65	≤-25.63	PASS
		High	2480	-4.29	-48.35	≤-24.29	PASS



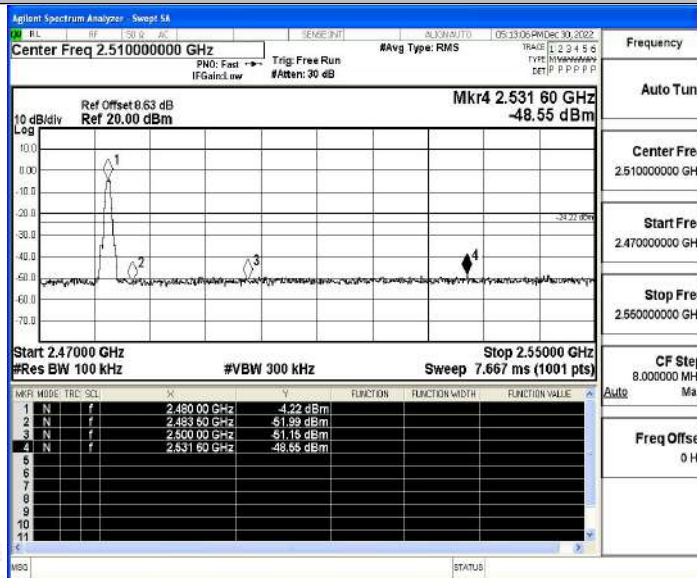
Shenzhen LCS Compliance Testing Laboratory Ltd.
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BLE_1M_Ant1_Low_2402



BLE_1M_Ant1_High_2480



BLE_2M_Ant1_Low_2402

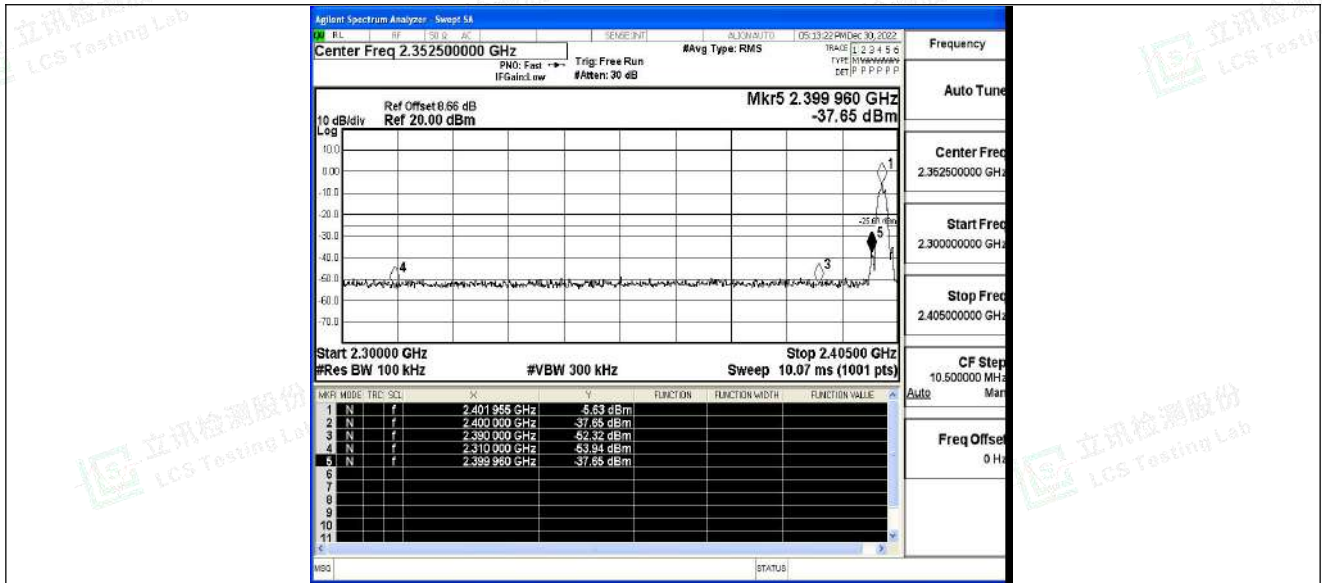


Shenzhen LCS Compliance Testing Laboratory Ltd.

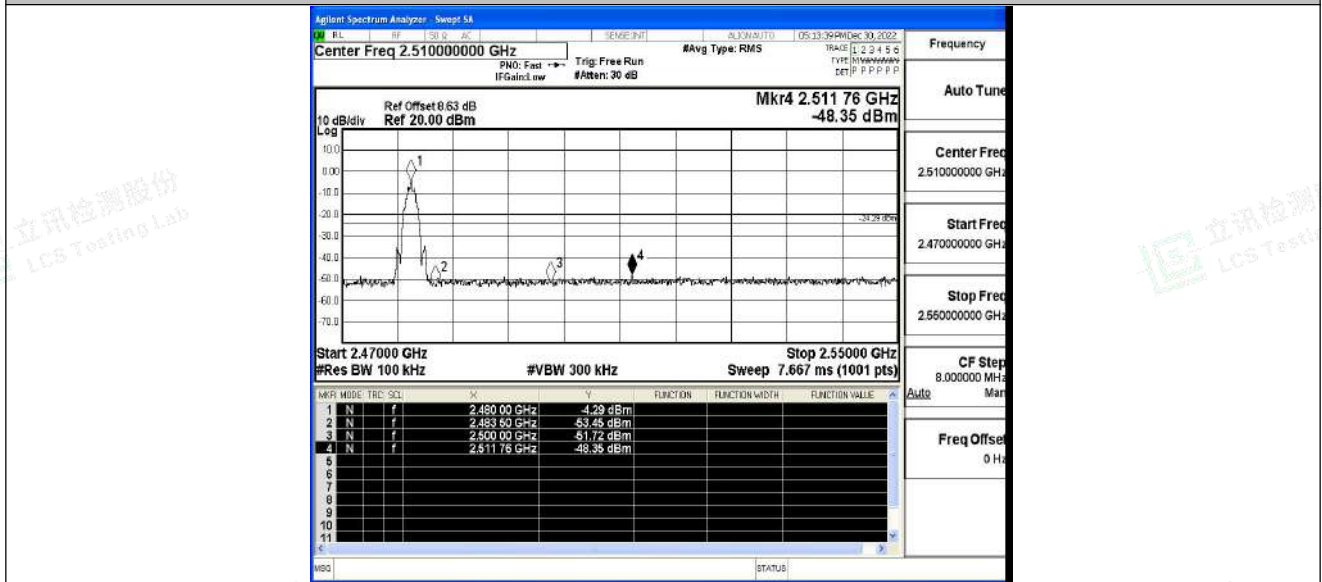
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BLE_2M_Ant1_High_2480





B.6 Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	Ant1	-41.52	-20	Pass
NVNT	BLE 1M	2440	Ant1	-42.92	-20	Pass
NVNT	BLE 1M	2480	Ant1	-42.67	-20	Pass
NVNT	BLE 2M	2402	Ant1	-41.99	-20	Pass
NVNT	BLE 2M	2440	Ant1	-44.15	-20	Pass
NVNT	BLE 2M	2480	Ant1	-41.99	-20	Pass

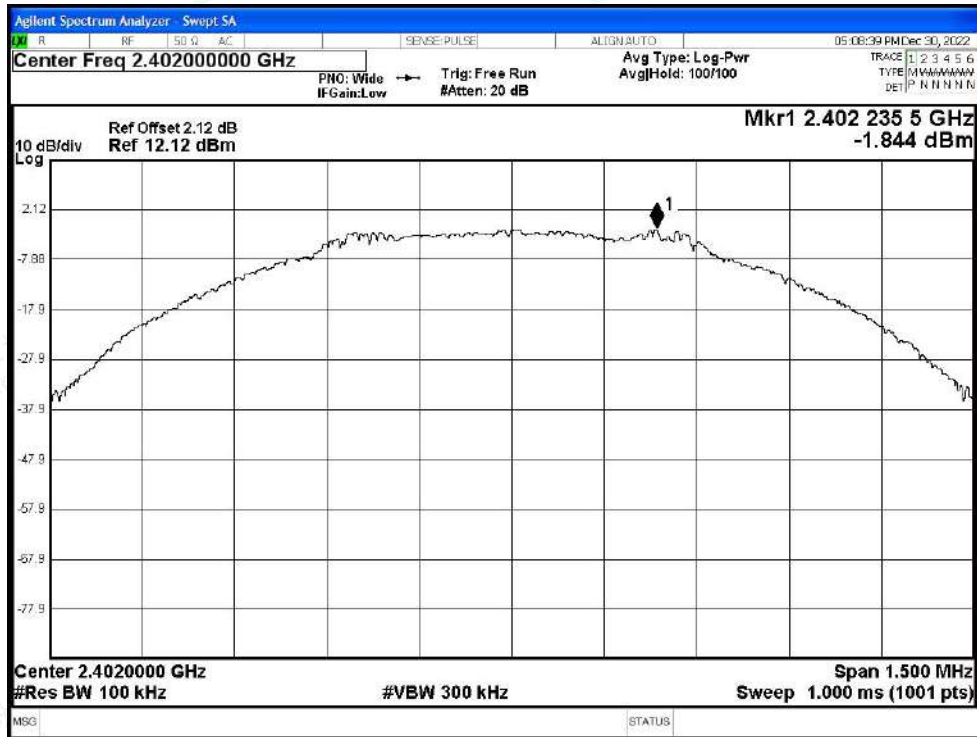


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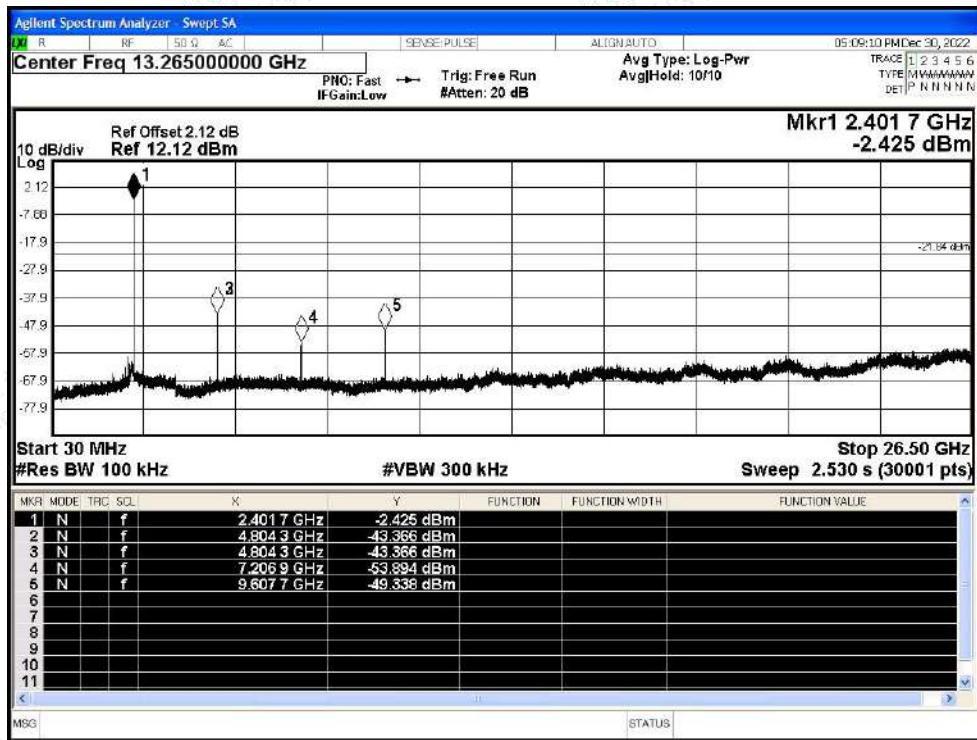


Test Graphs

Tx. Spurious NVNT BLE 1M 2402MHz Ant1 Ref



Tx. Spurious NVNT BLE 1M 2402MHz Ant1 Emission



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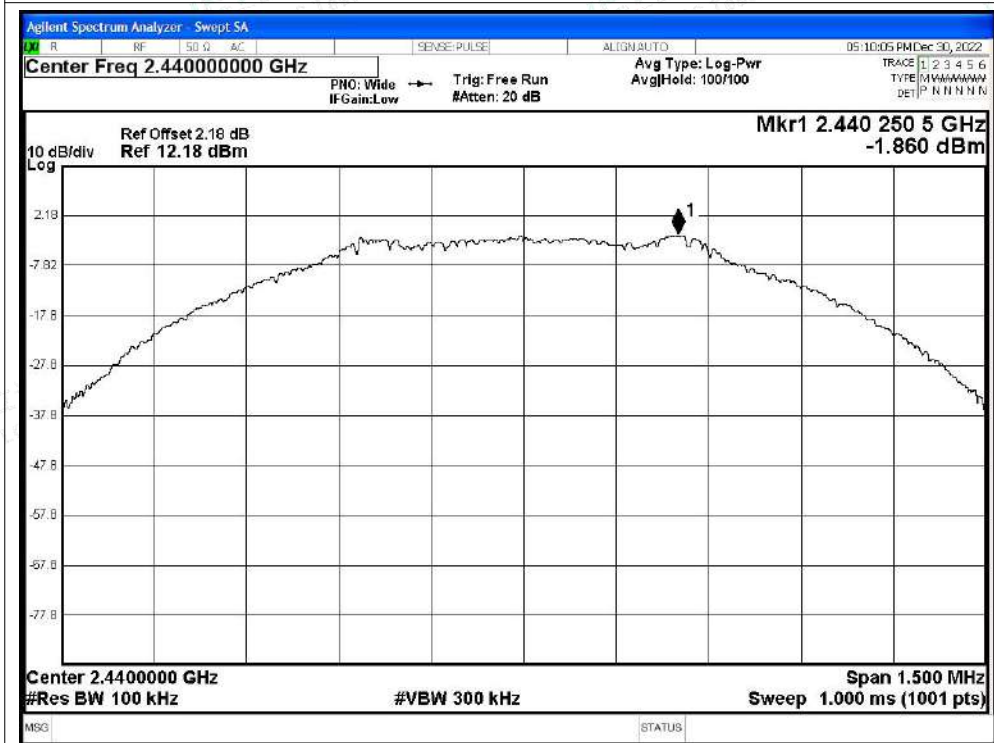
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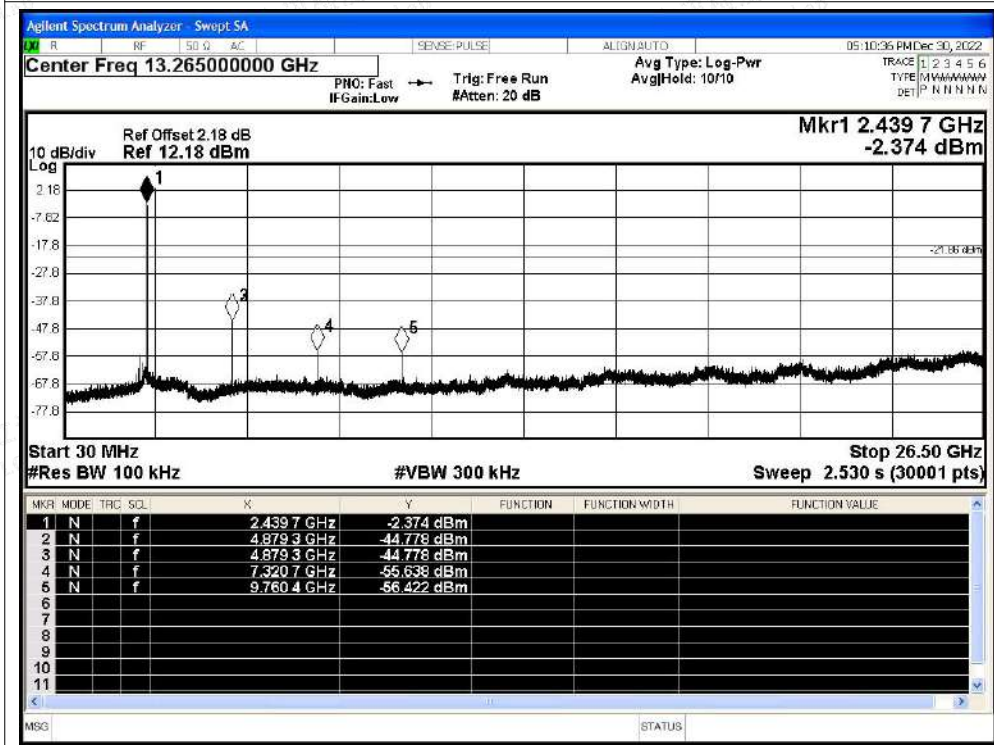
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Tx. Spurious NVNT BLE 1M 2440MHz Ant1 Ref



Tx. Spurious NVNT BLE 1M 2440MHz Ant1 Emission



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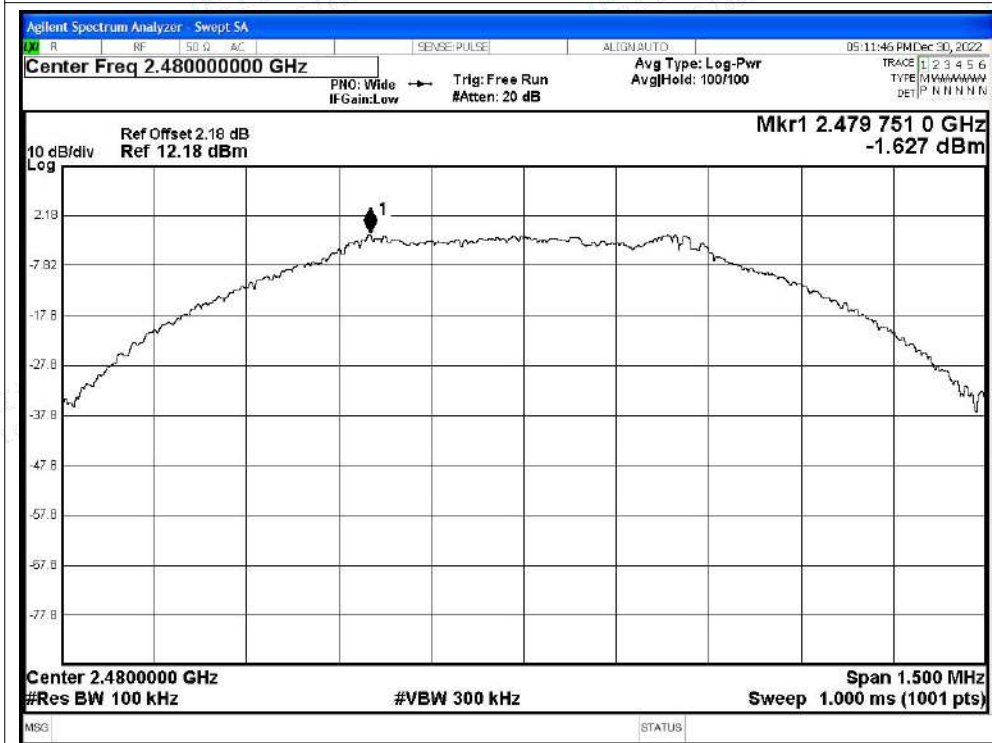
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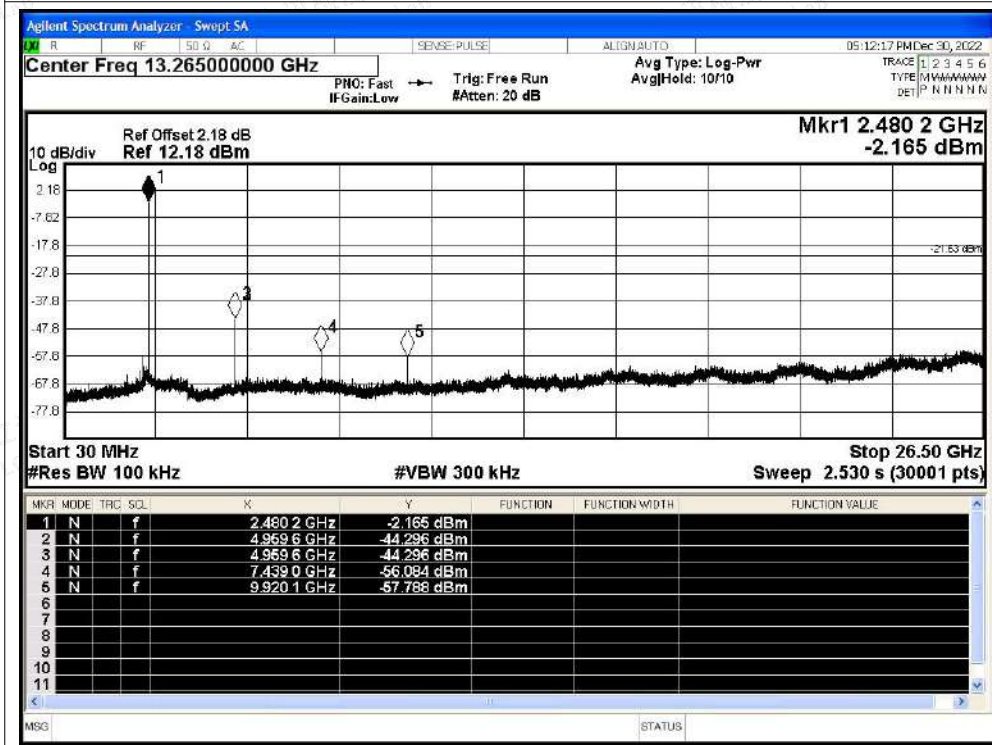
Scan code to check authenticity



Tx. Spurious NVNT BLE 1M 2480MHz Ant1 Ref



Tx. Spurious NVNT BLE 1M 2480MHz Ant1 Emission



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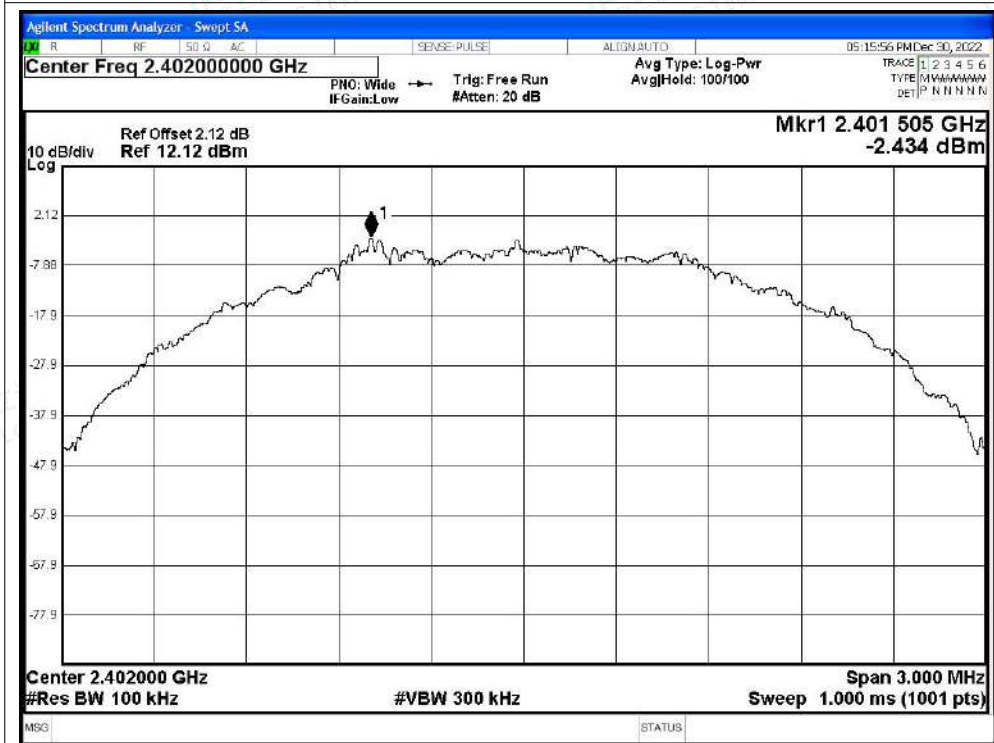
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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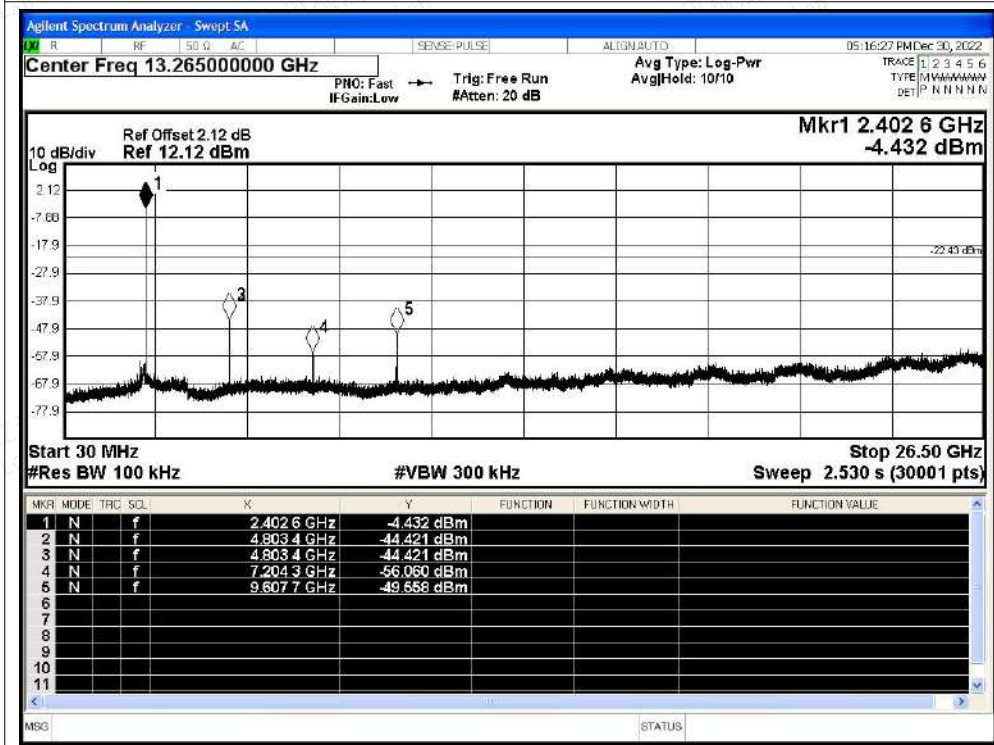
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Tx. Spurious NVNT BLE 2M 2402MHz Ant1 Ref



Tx. Spurious NVNT BLE 2M 2402MHz Ant1 Emission



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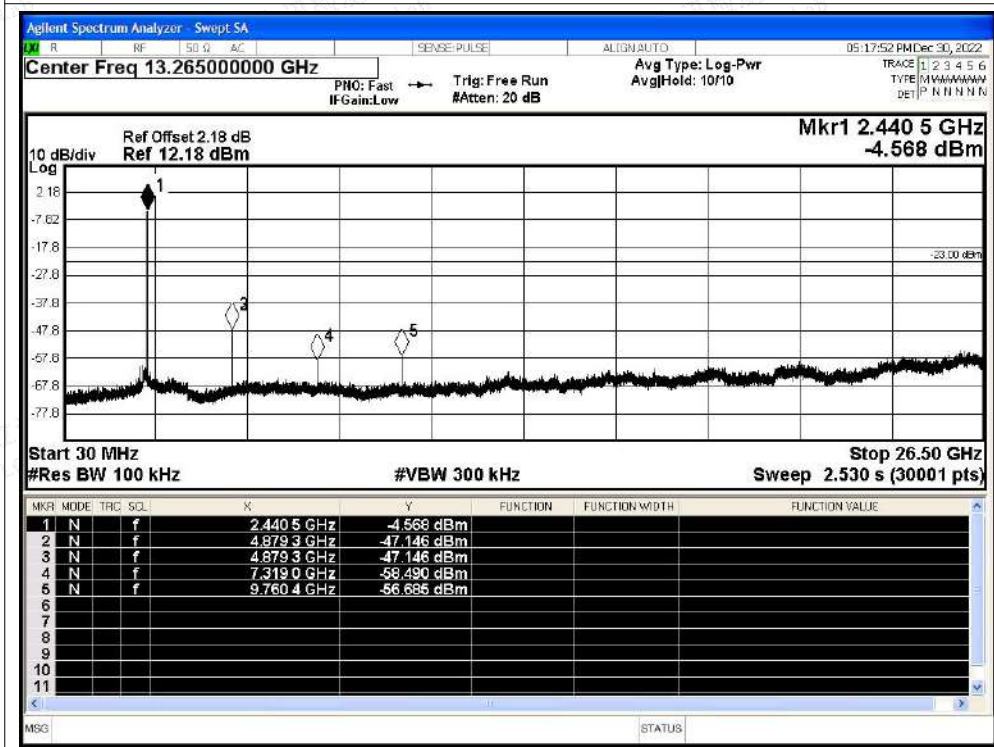
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Tx. Spurious NVNT BLE 2M 2440MHz Ant1 Ref



Tx. Spurious NVNT BLE 2M 2440MHz Ant1 Emission



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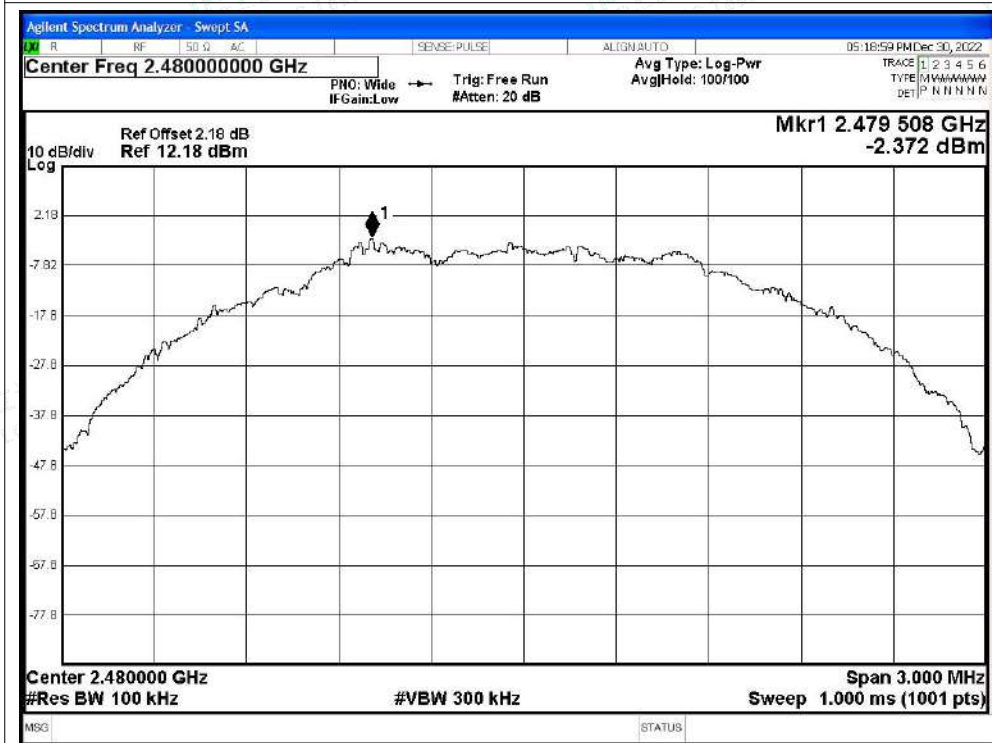
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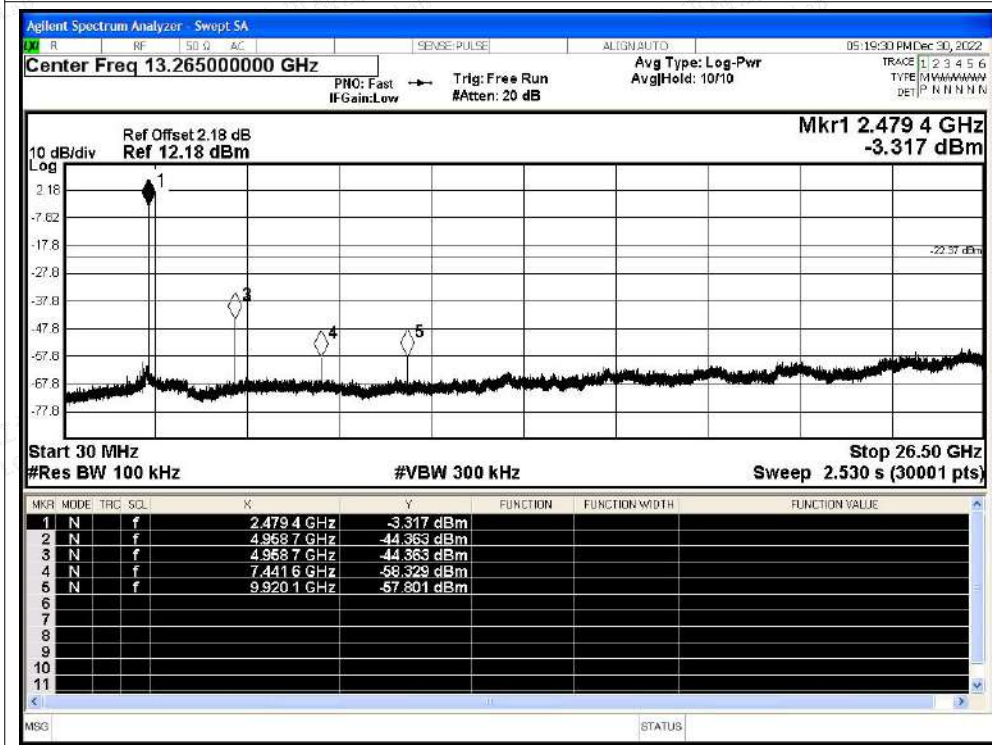
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Tx. Spurious NVNT BLE 2M 2480MHz Ant1 Ref



Tx. Spurious NVNT BLE 2M 2480MHz Ant1 Emission



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B.7 Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	BLE 1M	2402	Ant1	95.13	0.22	0.47
NVNT	BLE 1M	2440	Ant1	95.08	0.22	0.47
NVNT	BLE 1M	2480	Ant1	95.04	0.22	0.47
NVNT	BLE 2M	2402	Ant1	90.94	0.41	0.93
NVNT	BLE 2M	2440	Ant1	90.82	0.42	0.93
NVNT	BLE 2M	2480	Ant1	90.82	0.42	0.93

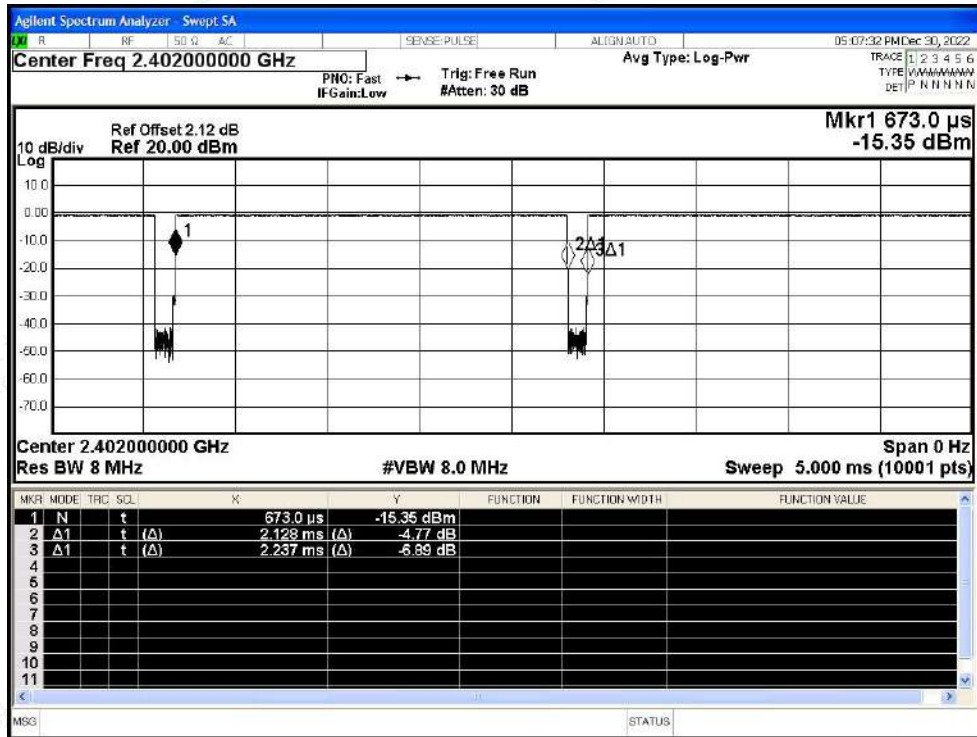


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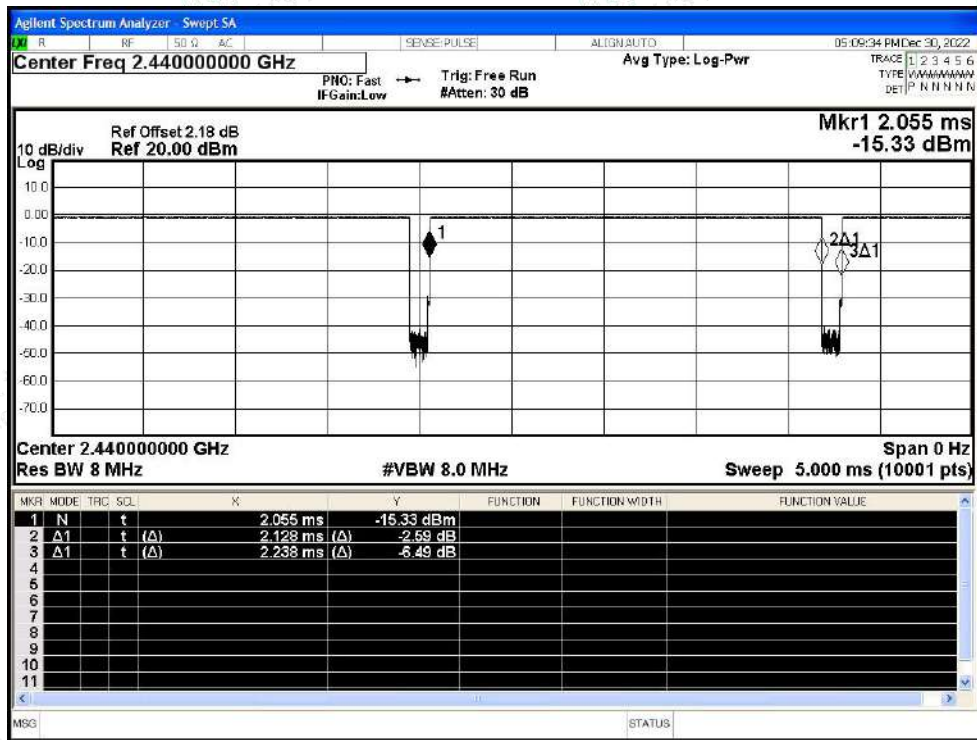


Test Graphs

Duty Cycle NVNT BLE 1M 2402MHz Ant1



Duty Cycle NVNT BLE 1M 2440MHz Ant1



Shenzhen LCS Compliance Testing Laboratory Ltd.

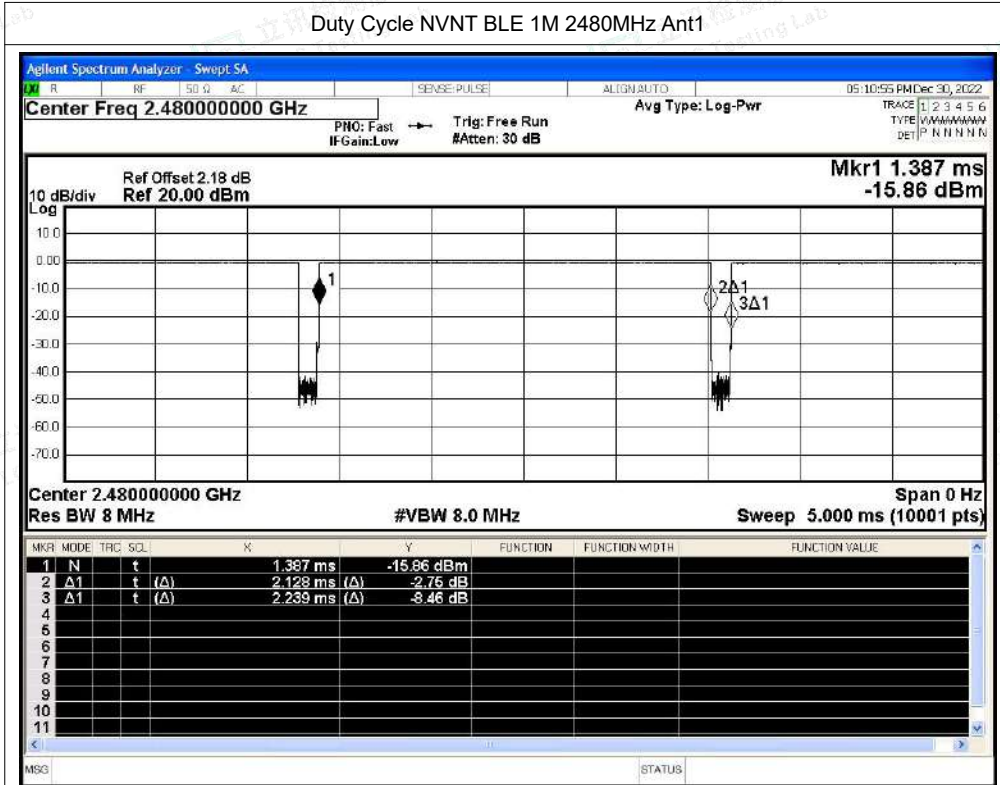
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Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

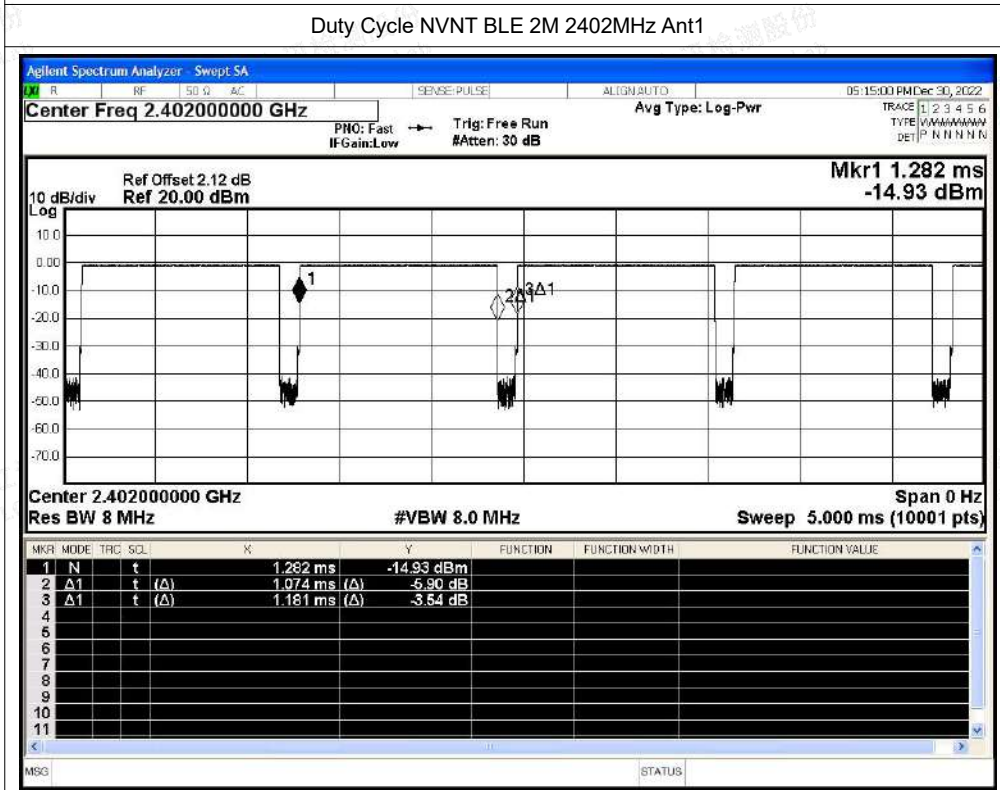
Scan code to check authenticity



Duty Cycle NVNT BLE 1M 2480MHz Ant1



Duty Cycle NVNT BLE 2M 2402MHz Ant1



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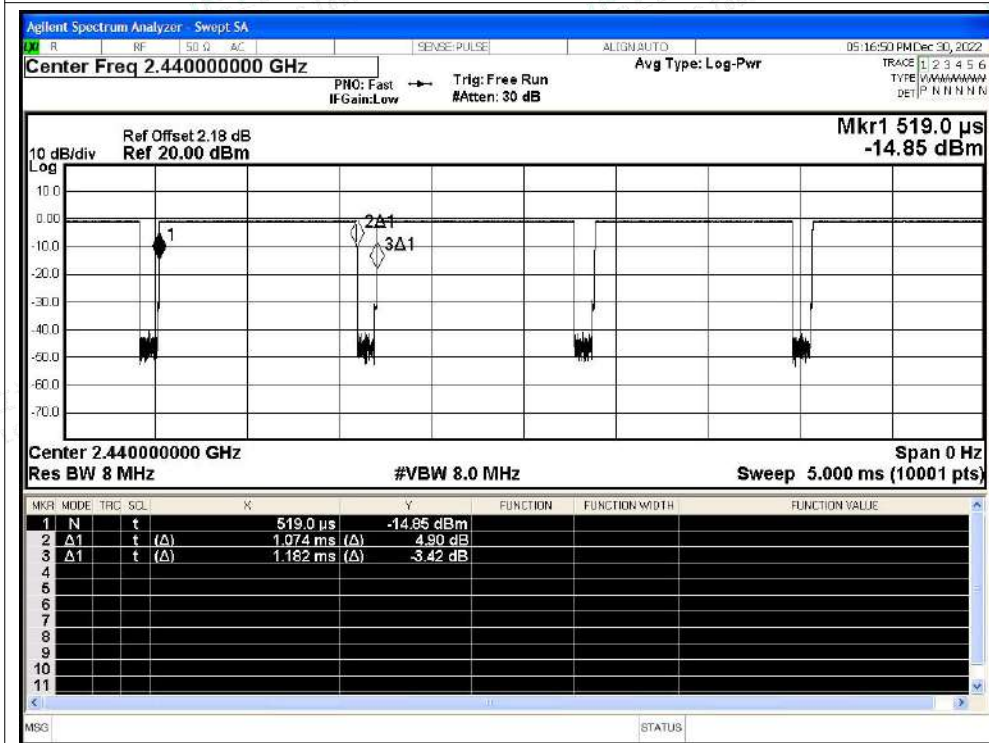
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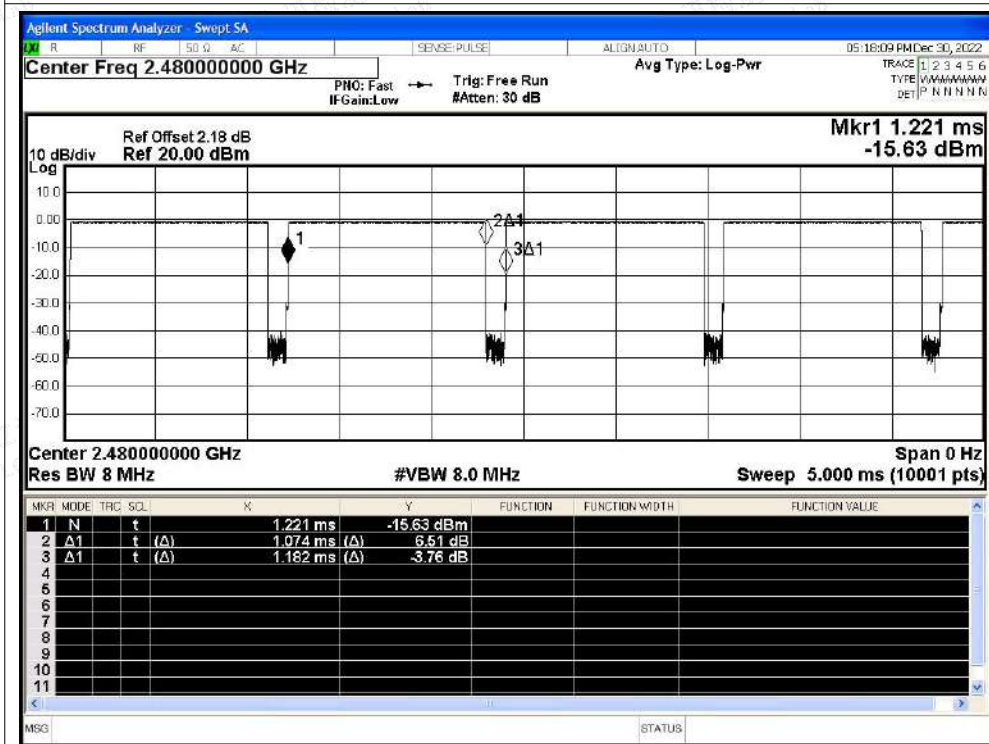
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Duty Cycle NVNT BLE 2M 2440MHz Ant1



Duty Cycle NVNT BLE 2M 2480MHz Ant1



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**B.8 Restrict Band**

Condition	Mode	Frequency (MHz)	Antenna	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	BLE 1M	2402	Ant1	2310	-51.11	2	46.15	Peak	74	Pass
NVNT	BLE 1M	2402	Ant1	2310	-59.32	2	37.94	Average	54	Pass
NVNT	BLE 1M	2402	Ant1	2318.064	-46.28	2	50.98	Peak	74	Pass
NVNT	BLE 1M	2402	Ant1	2337.84	-58.38	2	38.88	Average	54	Pass
NVNT	BLE 1M	2402	Ant1	2390	-49.3	2	47.96	Peak	74	Pass
NVNT	BLE 1M	2402	Ant1	2390	-59.27	2	37.99	Average	54	Pass
NVNT	BLE 1M	2480	Ant1	2483.5	-48.65	2	48.61	Peak	74	Pass
NVNT	BLE 1M	2480	Ant1	2483.5	-58.52	2	38.74	Average	54	Pass
NVNT	BLE 1M	2480	Ant1	2488.48	-47.01	2	50.25	Peak	74	Pass
NVNT	BLE 1M	2480	Ant1	2483.536	-58.51	2	38.75	Average	54	Pass
NVNT	BLE 1M	2480	Ant1	2500	-47.69	2	49.57	Peak	74	Pass
NVNT	BLE 1M	2480	Ant1	2500	-59.2	2	38.06	Average	54	Pass
NVNT	BLE 2M	2402	Ant1	2310	-48.35	2	48.91	Peak	74	Pass
NVNT	BLE 2M	2402	Ant1	2310	-59.26	2	38	Average	54	Pass
NVNT	BLE 2M	2402	Ant1	2338.896	-46.19	2	51.07	Peak	74	Pass
NVNT	BLE 2M	2402	Ant1	2354.352	-58.13	2	39.13	Average	54	Pass
NVNT	BLE 2M	2402	Ant1	2390	-50.38	2	46.88	Peak	74	Pass
NVNT	BLE 2M	2402	Ant1	2390	-59.01	2	38.25	Average	54	Pass
NVNT	BLE 2M	2480	Ant1	2483.5	-47.78	2	49.48	Peak	74	Pass
NVNT	BLE 2M	2480	Ant1	2483.5	-57.7	2	39.56	Average	54	Pass
NVNT	BLE 2M	2480	Ant1	2484.208	-42.4	2	54.86	Peak	74	Pass
NVNT	BLE 2M	2480	Ant1	2483.512	-57.7	2	39.56	Average	54	Pass
NVNT	BLE 2M	2480	Ant1	2500	-49.03	2	48.23	Peak	74	Pass
NVNT	BLE 2M	2480	Ant1	2500	-58.83	2	38.43	Average	54	Pass



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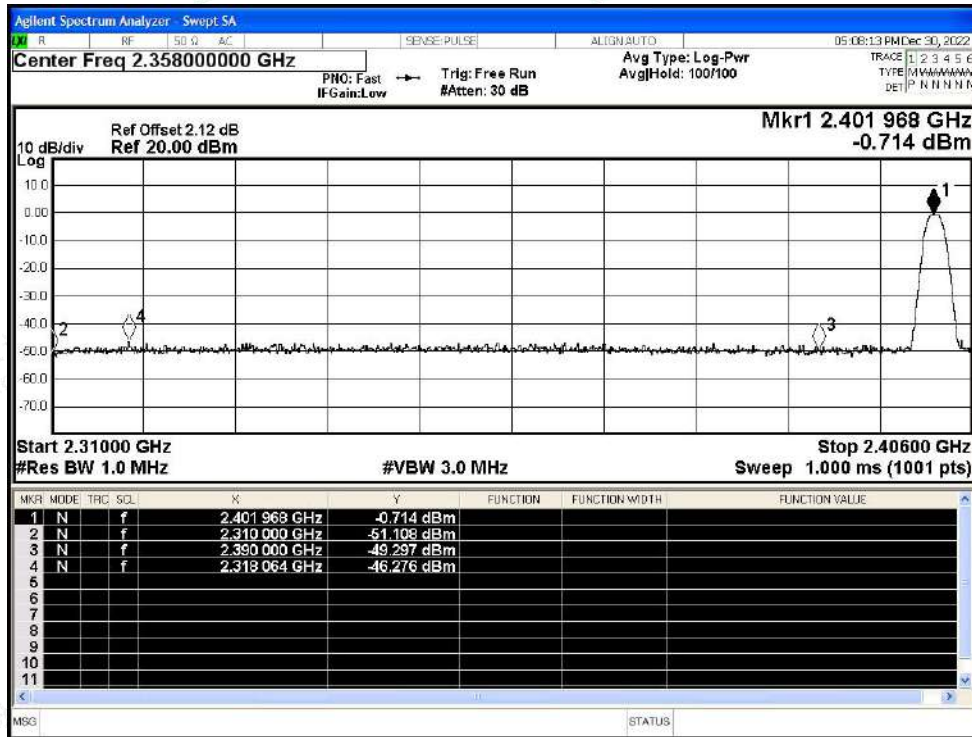
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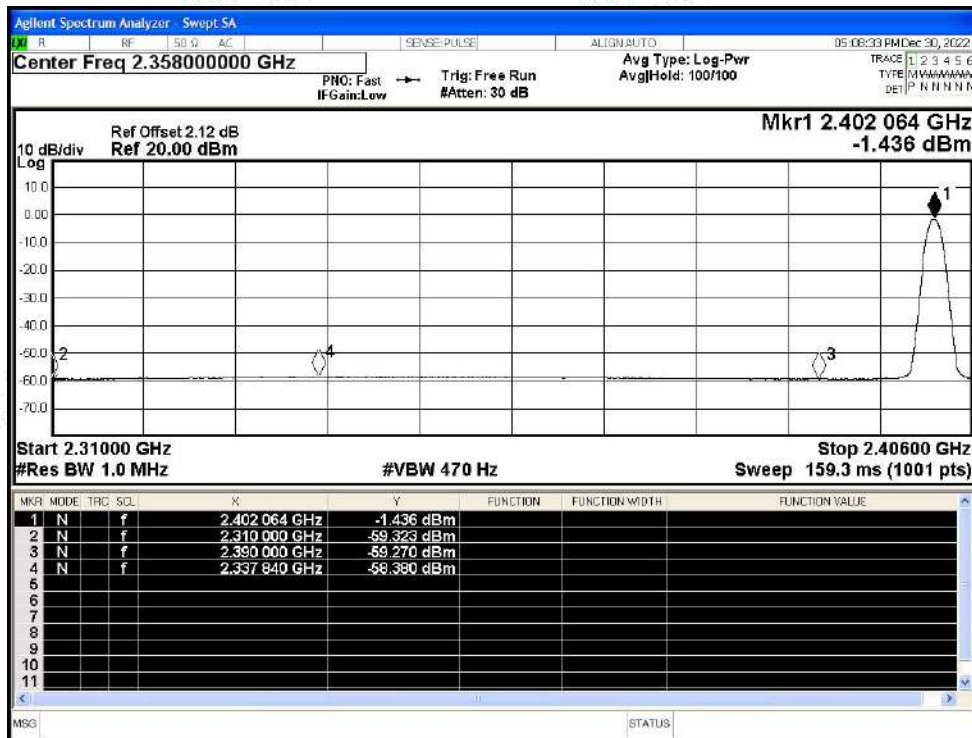


Test Graphs

Restrict Band NVNT BLE 1M 2402MHz Ant1 Peak



Restrict Band NVNT BLE 1M 2402MHz Ant1 Average



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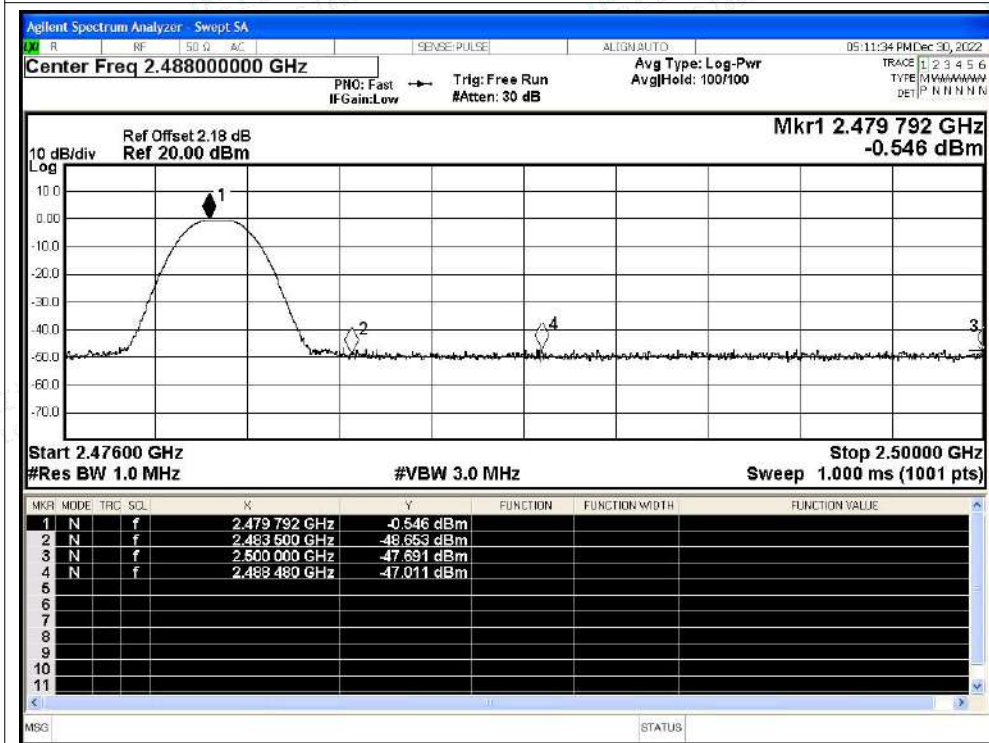
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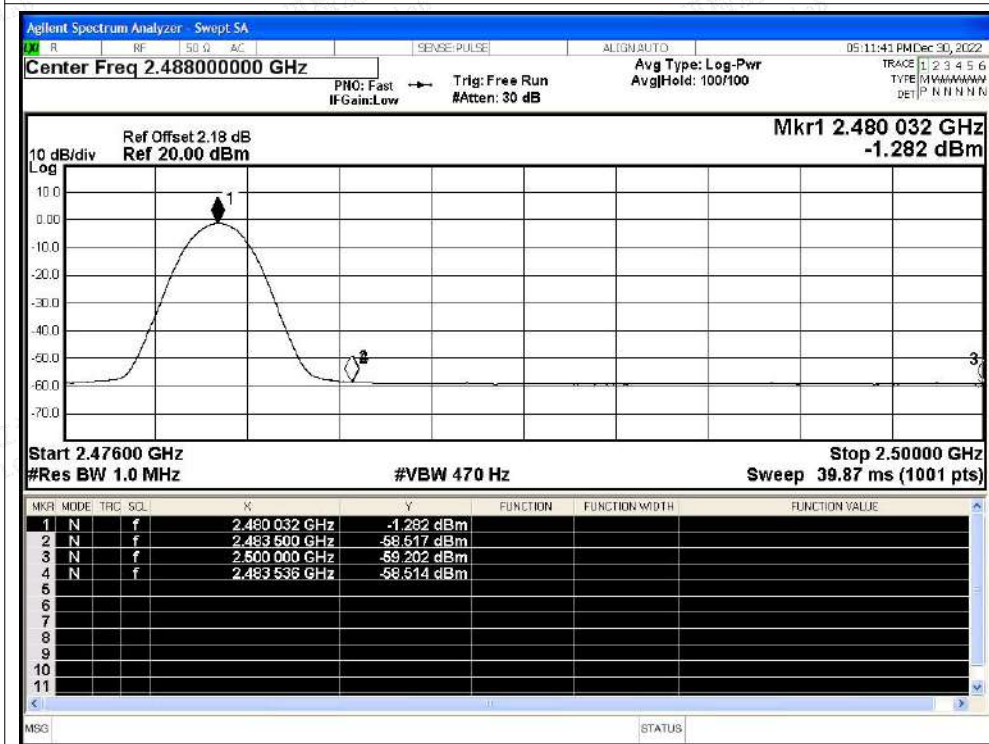
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Restrict Band NVNT BLE 1M 2480MHz Ant1 Peak



Restrict Band NVNT BLE 1M 2480MHz Ant1 Average



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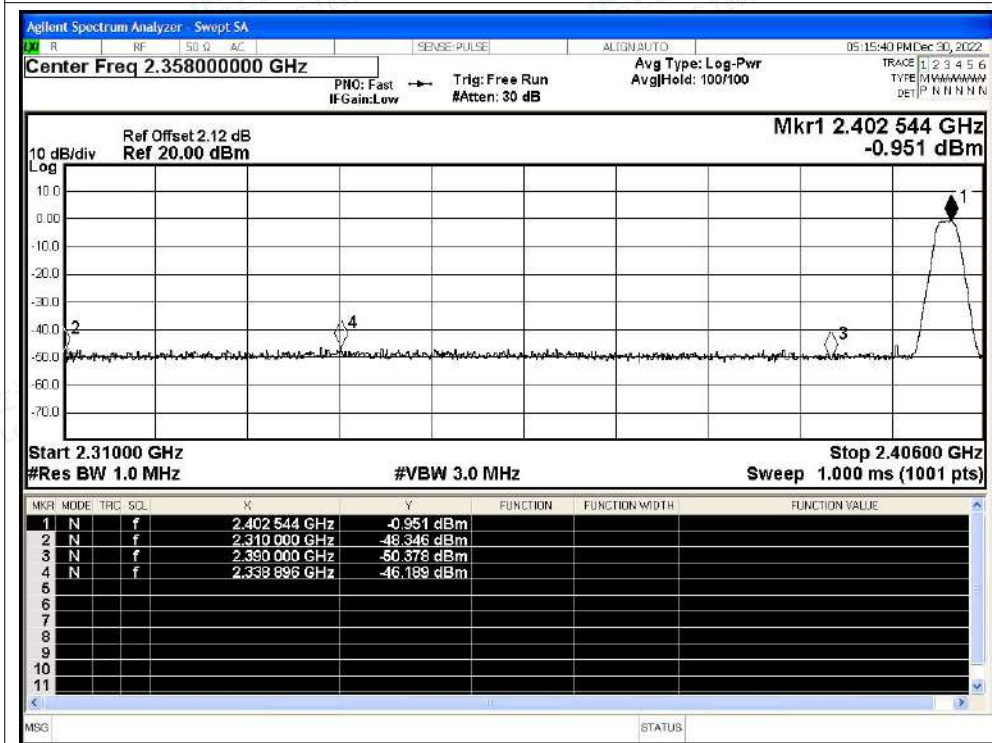
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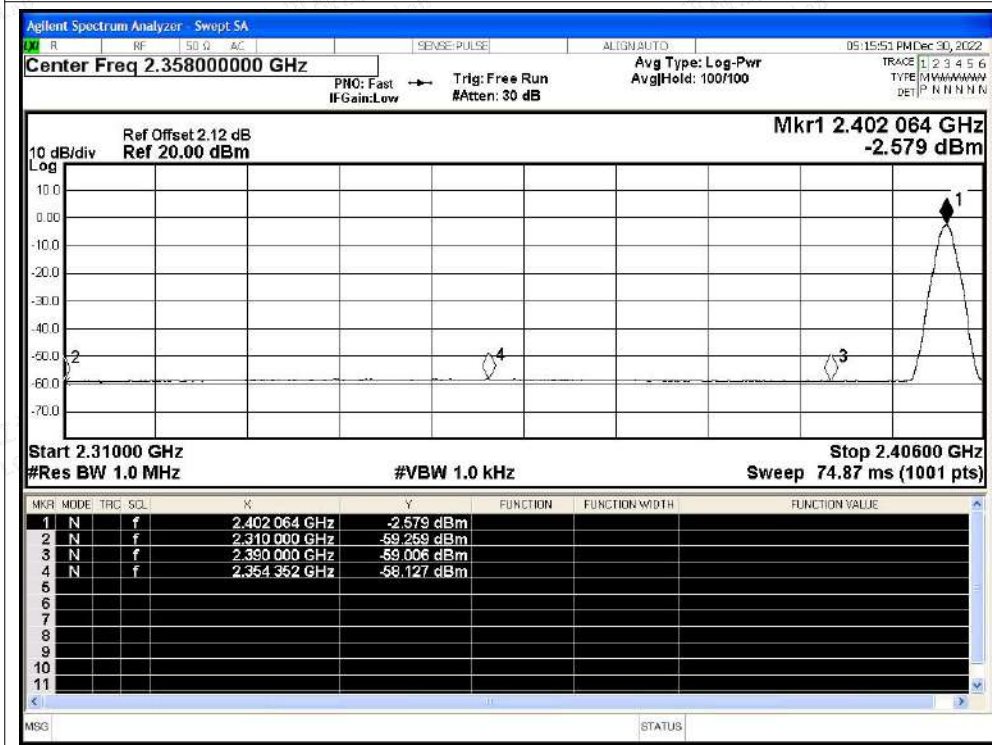
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Restrict Band NVNT BLE 2M 2402MHz Ant1 Peak



Restrict Band NVNT BLE 2M 2402MHz Ant1 Average



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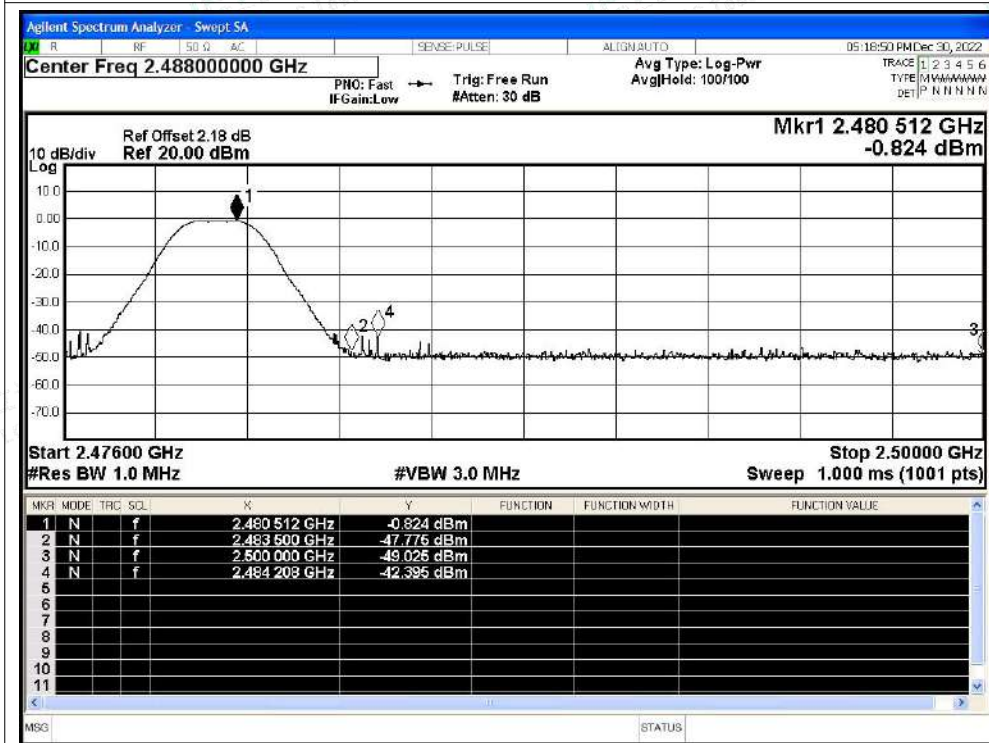
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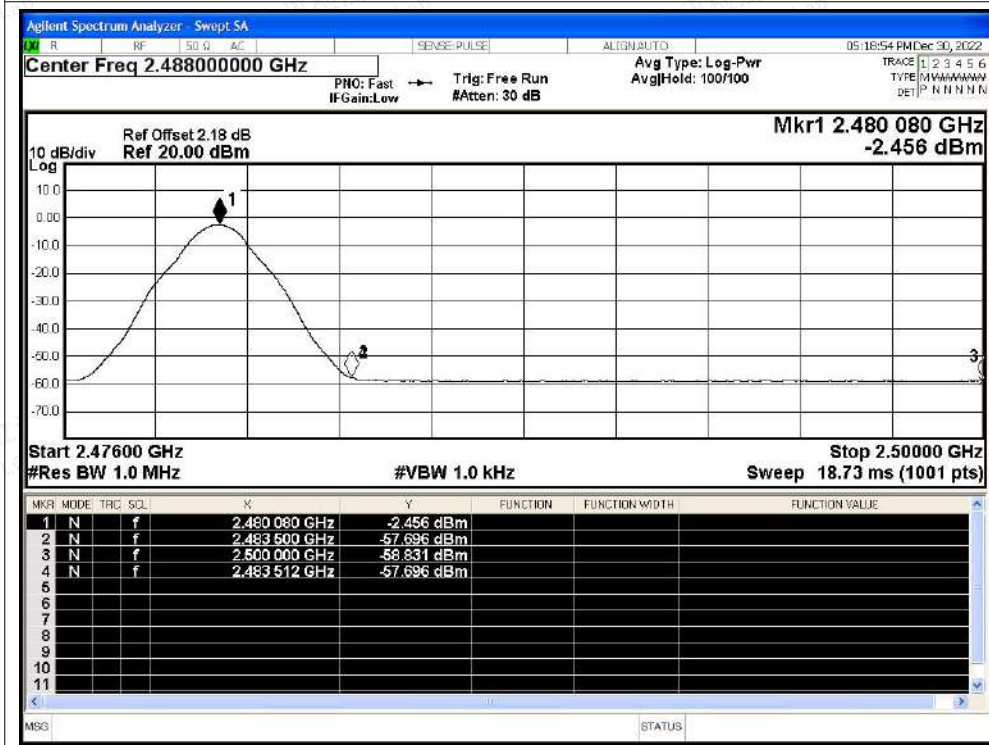
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Restrict Band NVNT BLE 2M 2480MHz Ant1 Peak



Restrict Band NVNT BLE 2M 2480MHz Ant1 Average



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