

# Annex A Test Data and Result

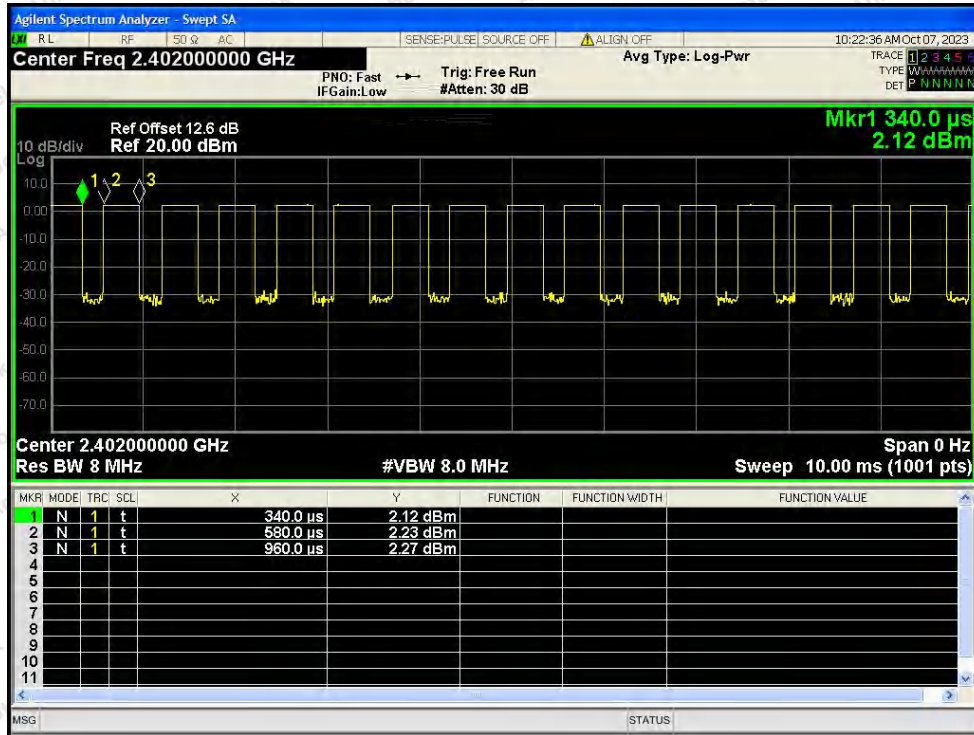
## A.1. Duty Cycle of Test Signal

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	BLE 1M	2402	Ant1	61.29	2.13	2.63
NVNT	BLE 1M	2440	Ant1	61.9	2.08	2.56
NVNT	BLE 1M	2480	Ant1	61.29	2.13	2.63
NVNT	BLE 2M	2402	Ant1	57.45	2.41	0.93
NVNT	BLE 2M	2440	Ant1	57.22	2.42	0.93
NVNT	BLE 2M	2480	Ant1	57.22	2.42	0.93

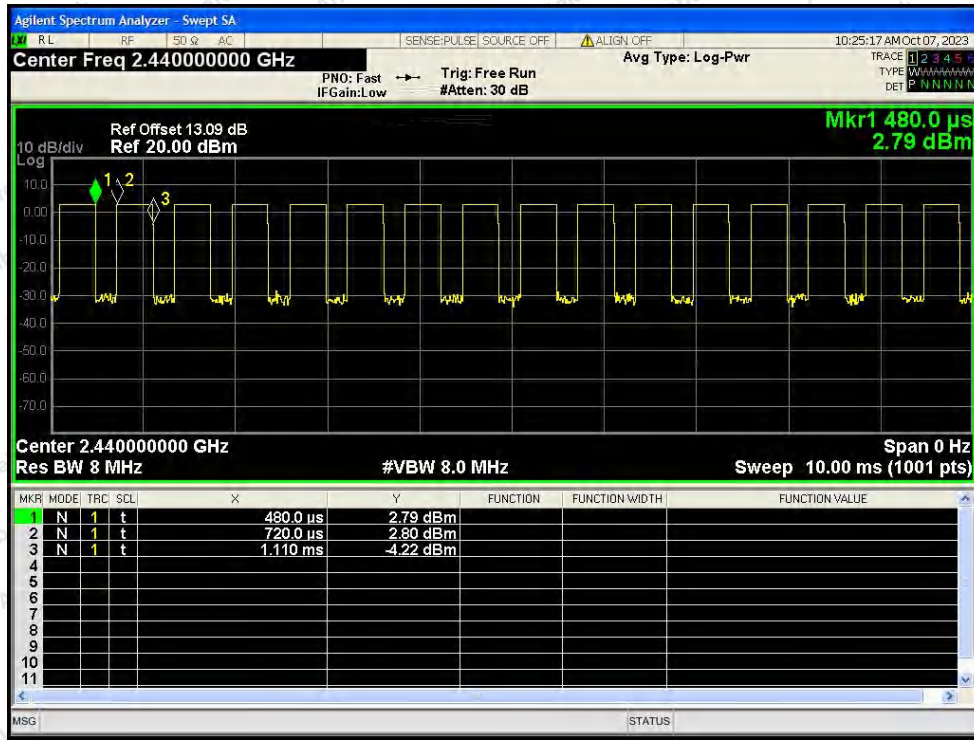


### Test Graphs

Duty Cycle NVNT BLE 1M 2402MHz Ant1



Duty Cycle NVNT BLE 1M 2440MHz Ant1



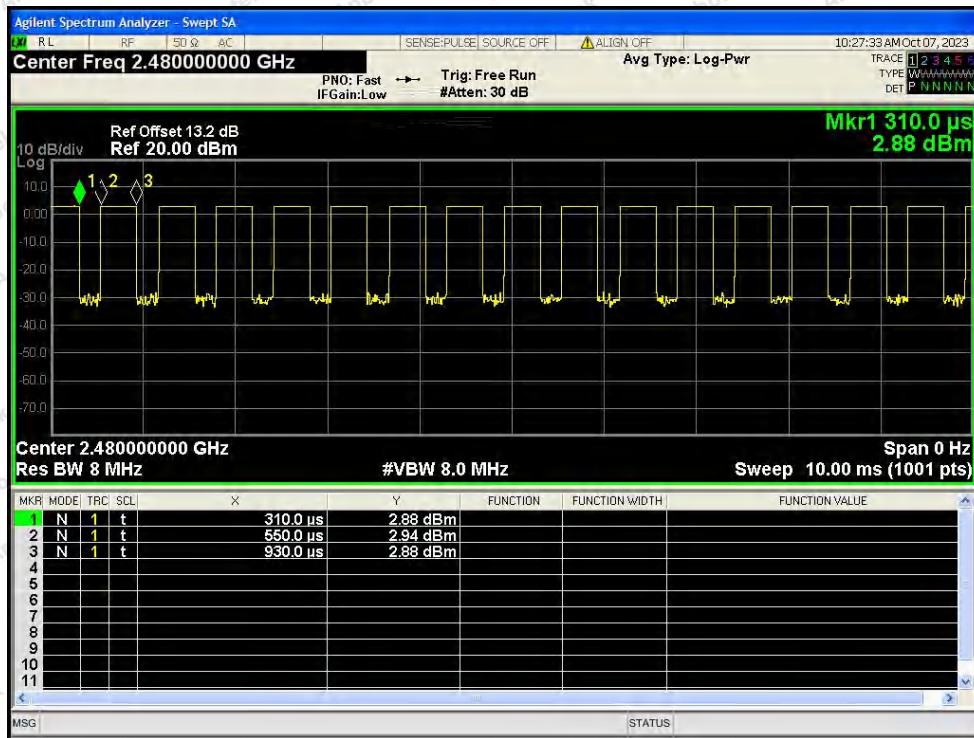
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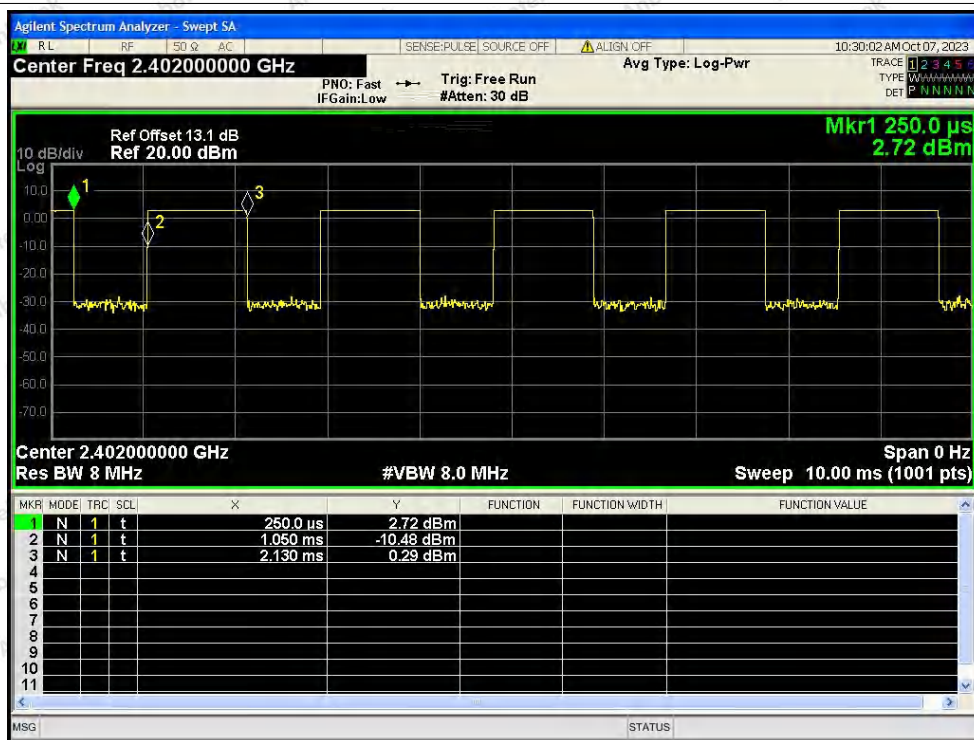
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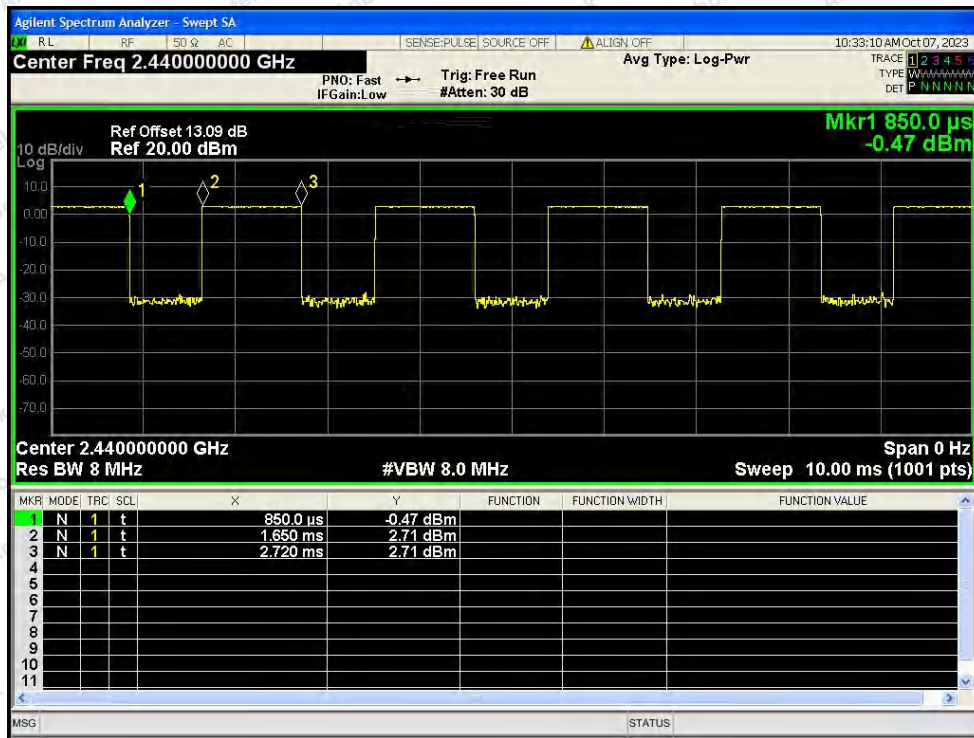
### Duty Cycle NVNT BLE 1M 2480MHz Ant1



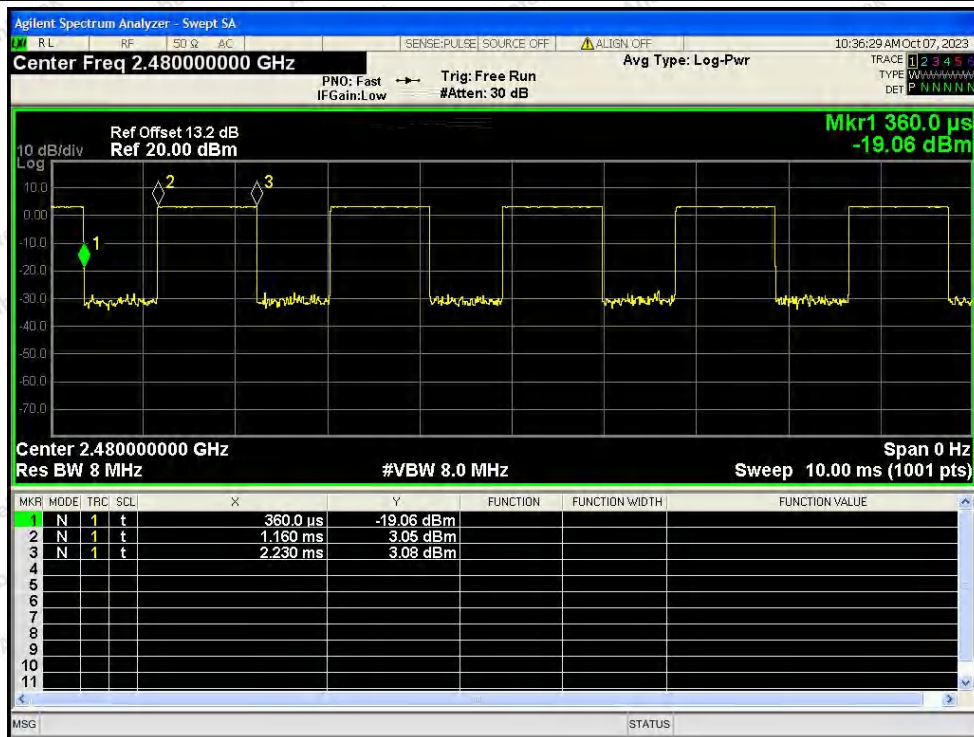
### Duty Cycle NVNT BLE 2M 2402MHz Ant1



### Duty Cycle NVNT BLE 2M 2440MHz Ant1



### Duty Cycle NVNT BLE 2M 2480MHz Ant1



## A.2. Maximum Peak Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Conducted Power (dBm)	Total Conducted Power (W)	Limit Conducted (dBm)	Verdict
NVNT	BLE 1M	2402	Ant1	2.72	0	2.72	0.00187	30	Pass
NVNT	BLE 1M	2440	Ant1	2.79	0	2.79	0.0019	30	Pass
NVNT	BLE 1M	2480	Ant1	2.91	0	2.91	0.00195	30	Pass
NVNT	BLE 2M	2402	Ant1	2.66	0	2.66	0.00185	30	Pass
NVNT	BLE 2M	2440	Ant1	2.61	0	2.61	0.00182	30	Pass
NVNT	BLE 2M	2480	Ant1	3	0	3	0.002	30	Pass

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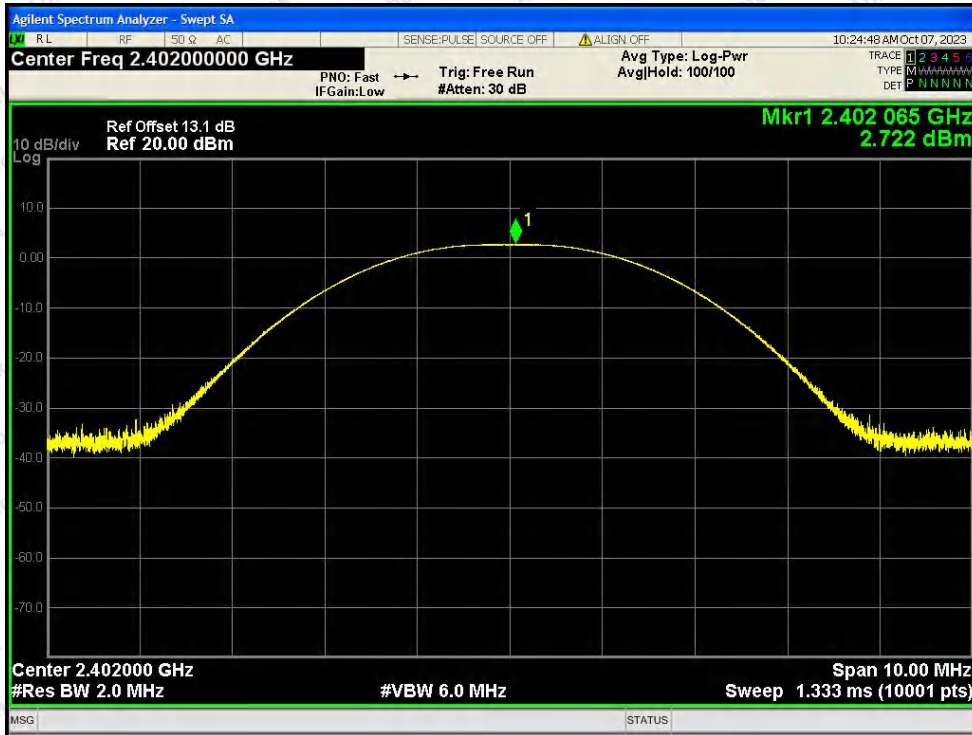


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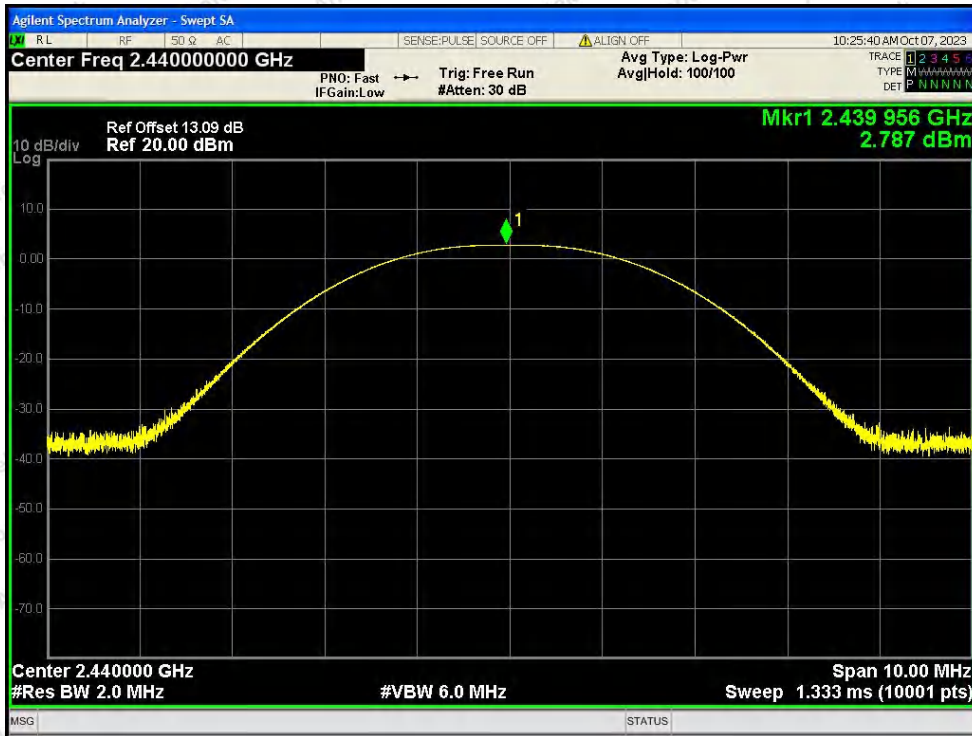


### Test Graphs

#### Peak Power NVNT BLE 1M 2402MHz Ant1



#### Peak Power NVNT BLE 1M 2440MHz Ant1



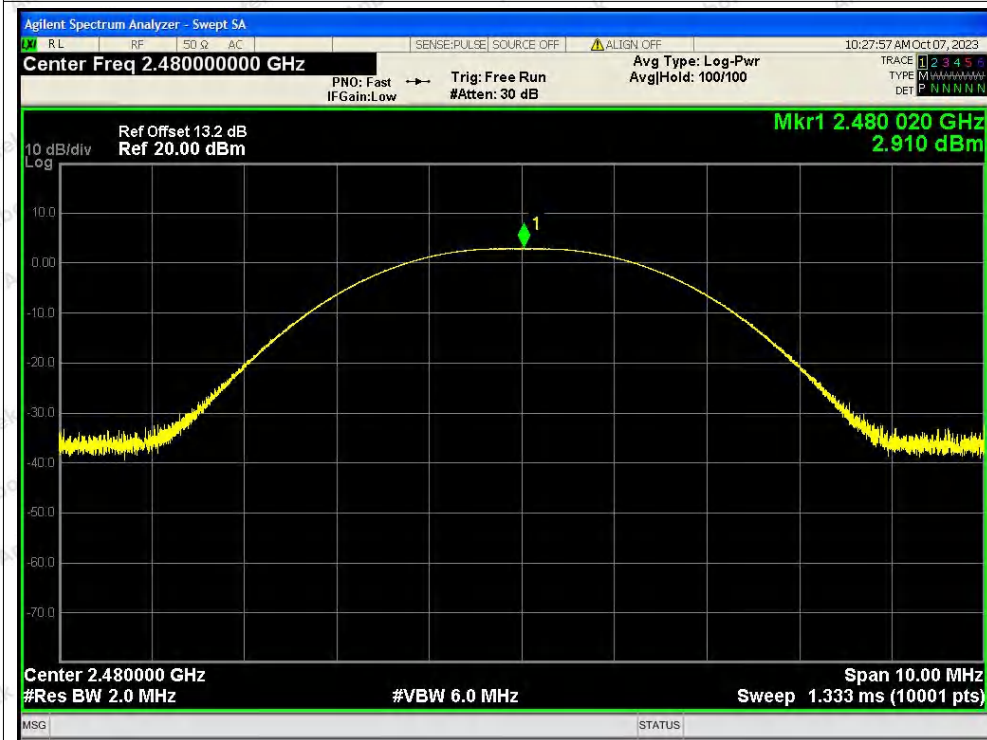
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Tel: (86) 0755-26066440 Fax: (86) 0755-26014772 Email: service@anbotek.com

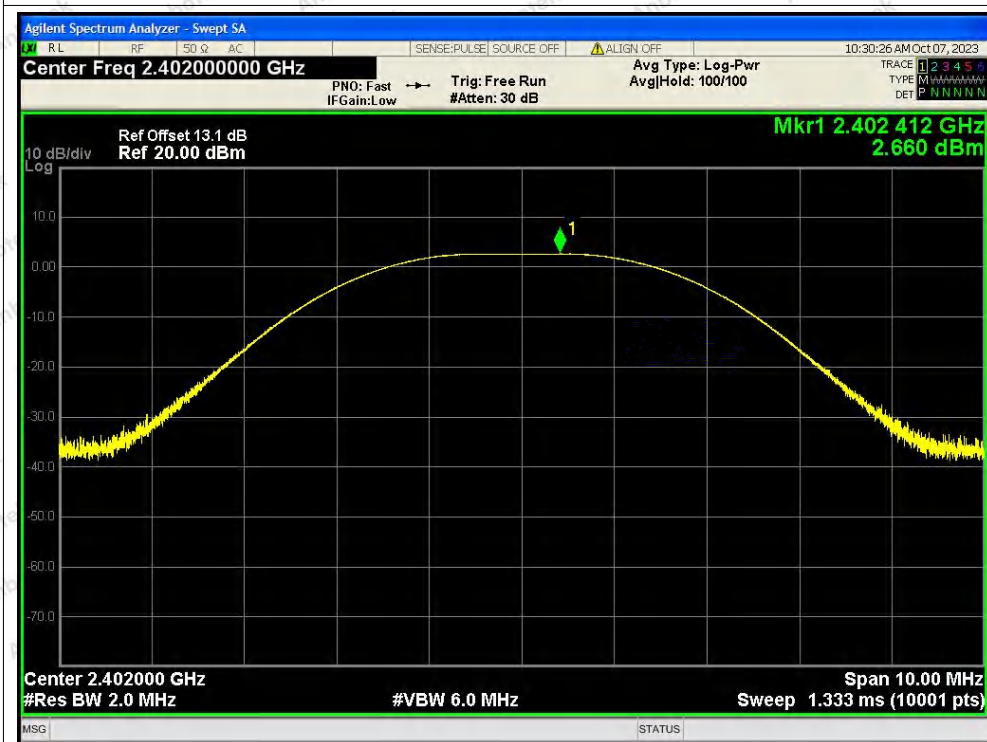
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### Peak Power NVNT BLE 1M 2480MHz Ant1



### Peak Power NVNT BLE 2M 2402MHz Ant1



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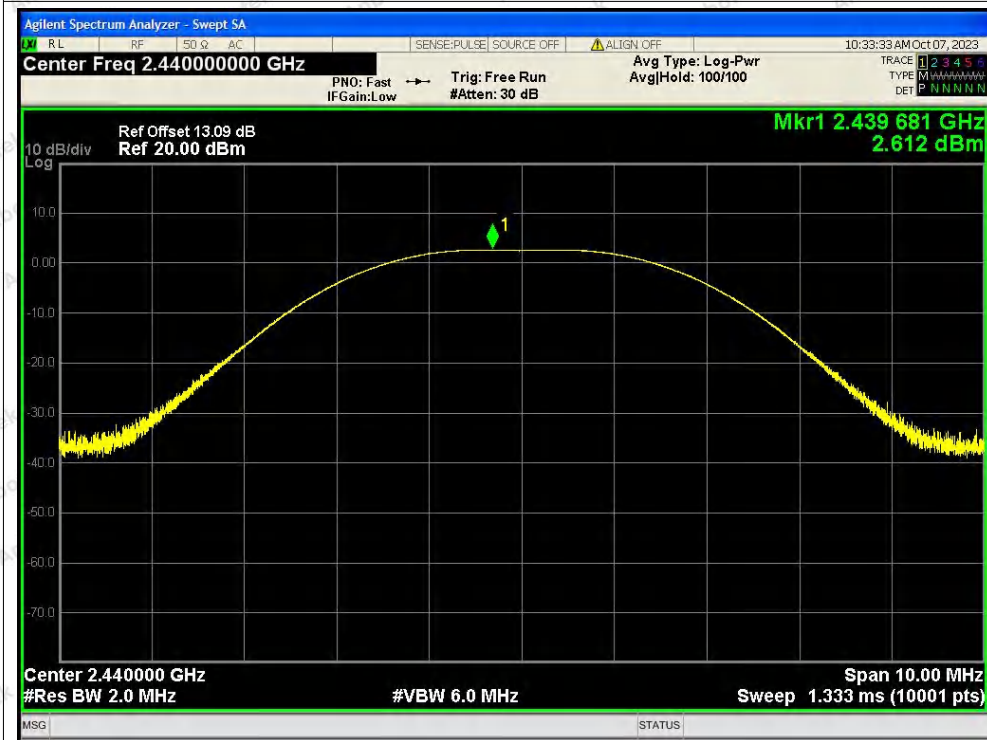
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.  
Tel: (86) 0755-26066440 Fax: (86) 0755-26014772 Email: service@anbotek.com



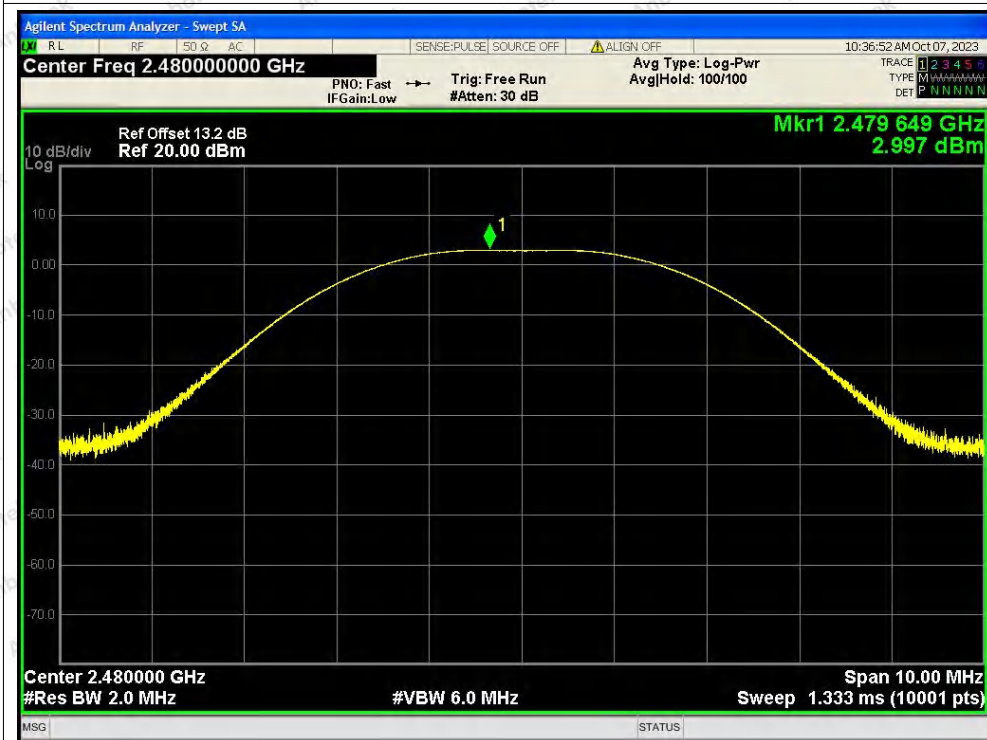
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### Peak Power NVNT BLE 2M 2440MHz Ant1



### Peak Power NVNT BLE 2M 2480MHz Ant1



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## A.3. Maximum Average Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Conducted Power (dBm)	Total Conducted Power (W)	Limit Conducted (dBm)	Verdict
NVNT	BLE 1M	2402	Ant1	0.22	2.13	2.35	0.00172	30	Pass
NVNT	BLE 1M	2440	Ant1	0.37	2.08	2.45	0.00176	30	Pass
NVNT	BLE 1M	2480	Ant1	0.51	2.13	2.64	0.00184	30	Pass
NVNT	BLE 2M	2402	Ant1	0.03	2.41	2.44	0.00175	30	Pass
NVNT	BLE 2M	2440	Ant1	0.2	2.42	2.62	0.00183	30	Pass
NVNT	BLE 2M	2480	Ant1	0.3	2.42	2.72	0.00187	30	Pass

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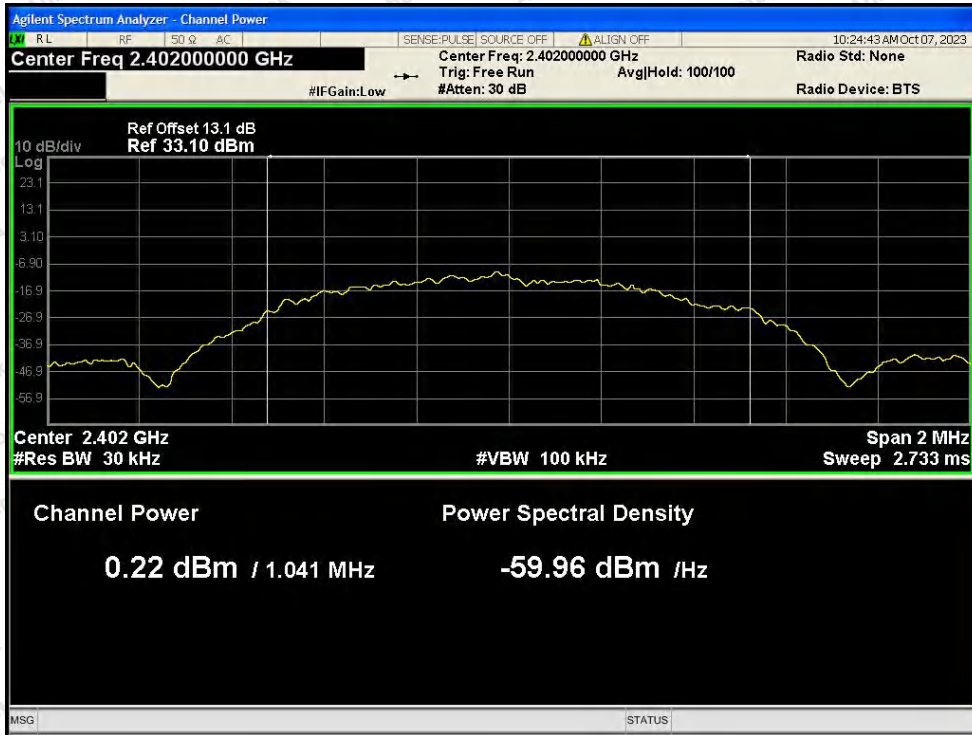


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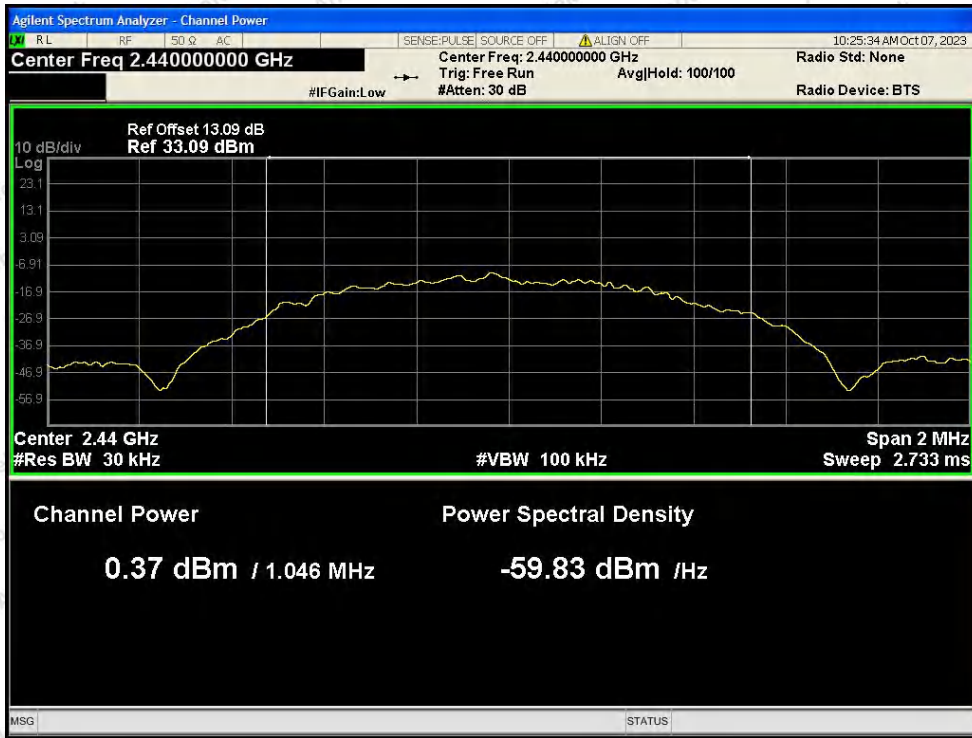


### Test Graphs

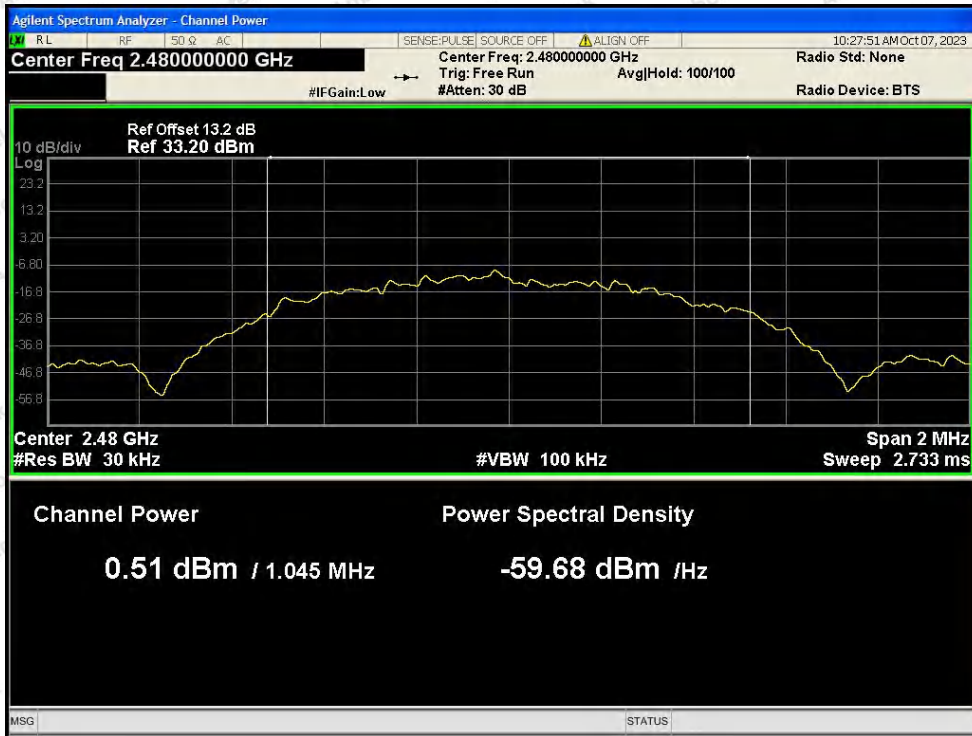
#### Average Power NVNT BLE 1M 2402MHz Ant1



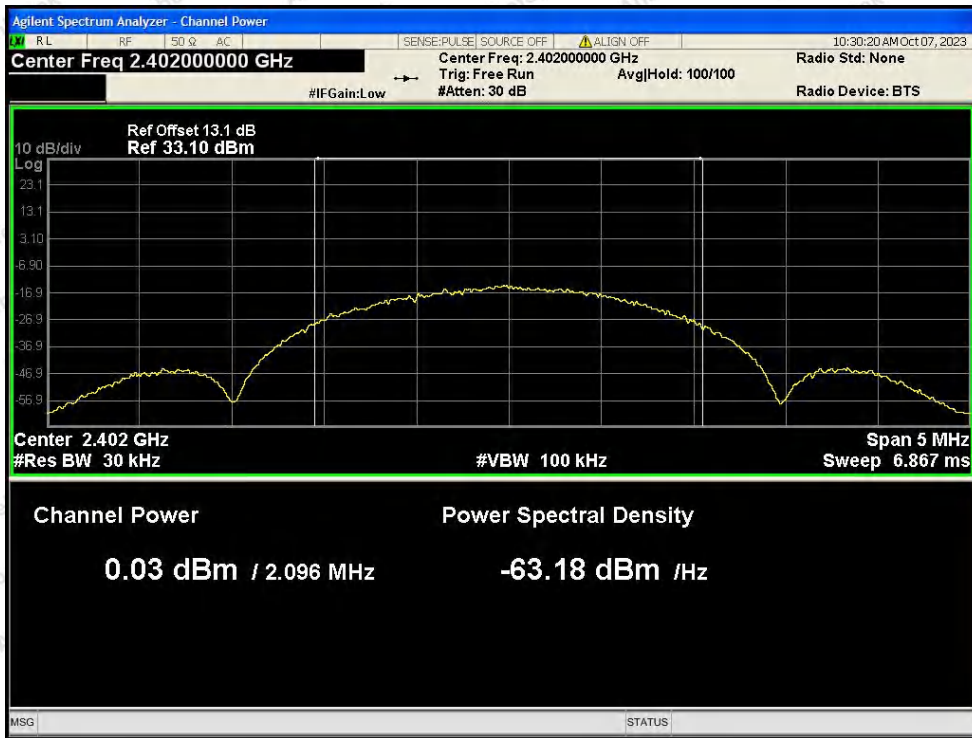
#### Average Power NVNT BLE 1M 2440MHz Ant1



### Average Power NVNT BLE 1M 2480MHz Ant1



### Average Power NVNT BLE 2M 2402MHz Ant1



### Average Power NVNT BLE 2M 2440MHz Ant1



### Average Power NVNT BLE 2M 2480MHz Ant1



## A.4. 6 dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	BLE 1M	2402	Ant1	0.681	0.5	Pass
NVNT	BLE 1M	2440	Ant1	0.674	0.5	Pass
NVNT	BLE 1M	2480	Ant1	0.665	0.5	Pass
NVNT	BLE 2M	2402	Ant1	1.183	0.5	Pass
NVNT	BLE 2M	2440	Ant1	1.215	0.5	Pass
NVNT	BLE 2M	2480	Ant1	1.155	0.5	Pass

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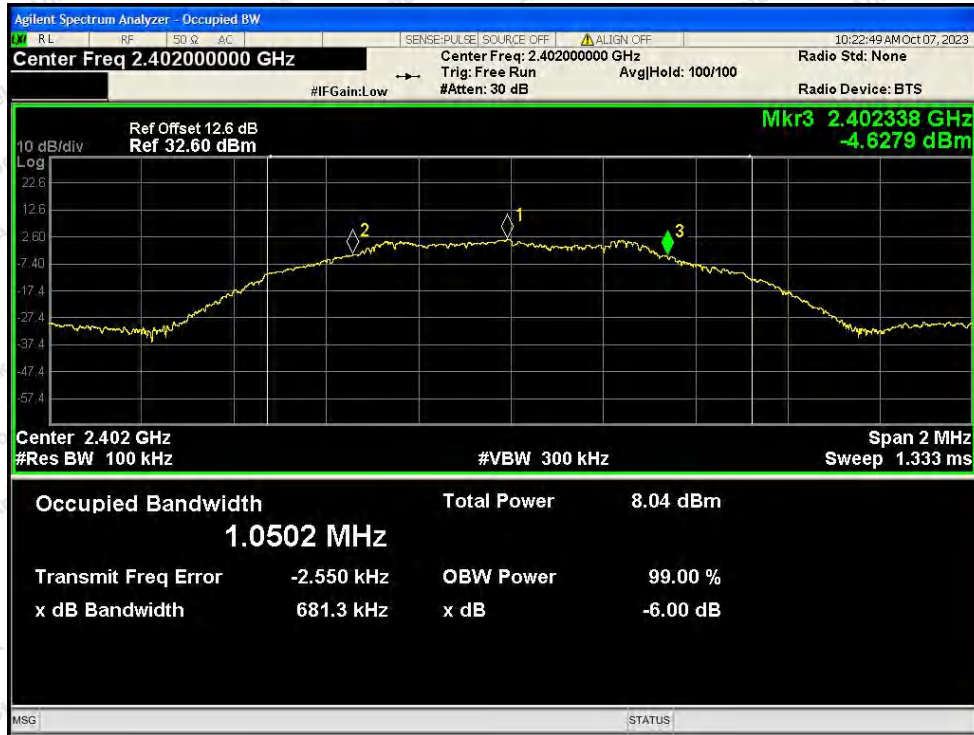
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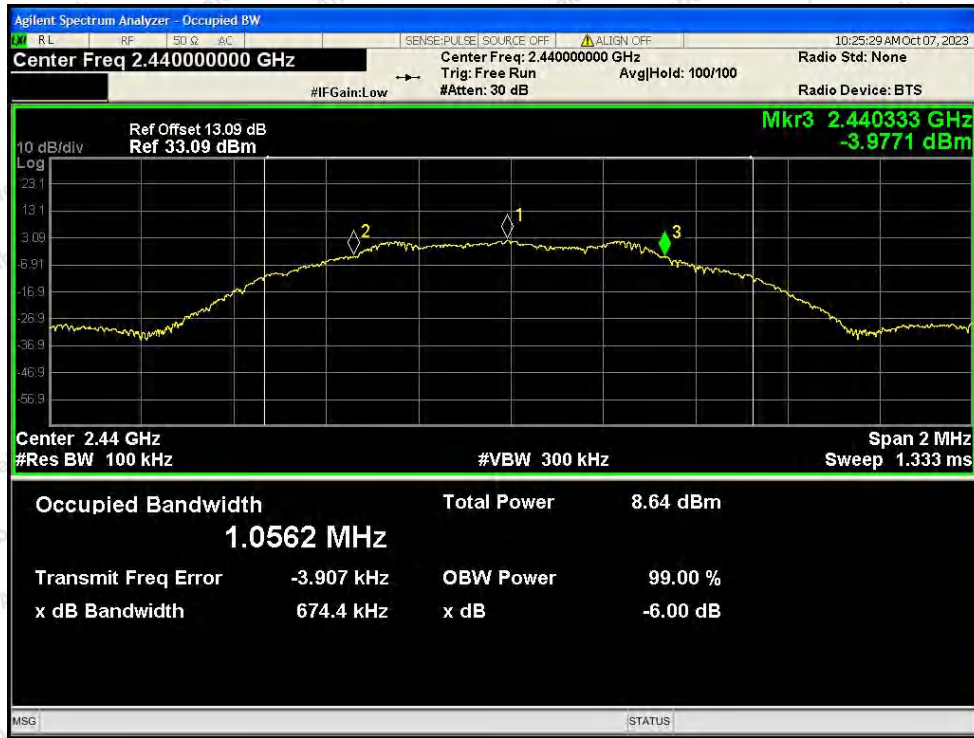


### Test Graphs

-6dB Bandwidth NVNT BLE 1M 2402MHz Ant1



-6dB Bandwidth NVNT BLE 1M 2440MHz Ant1



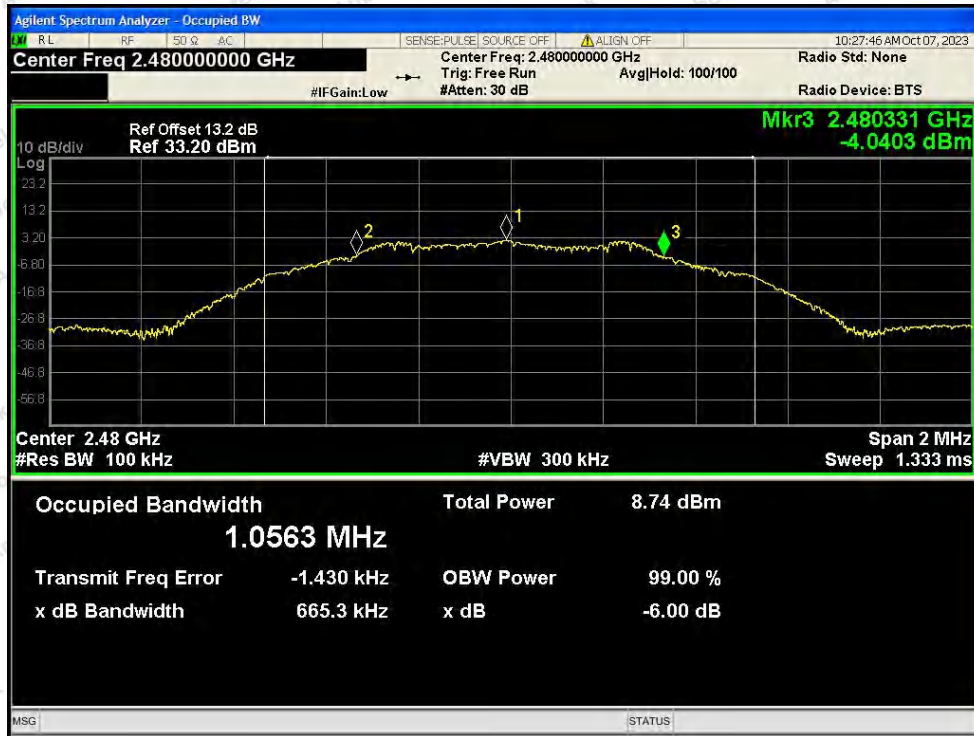
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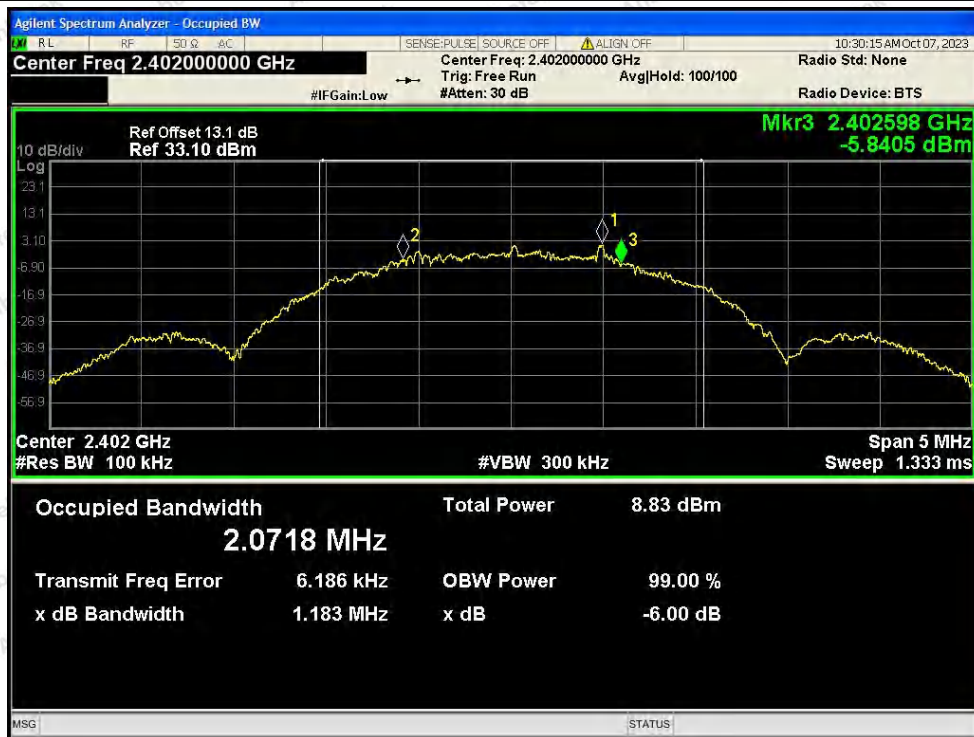
Hotline 400-003-0500  
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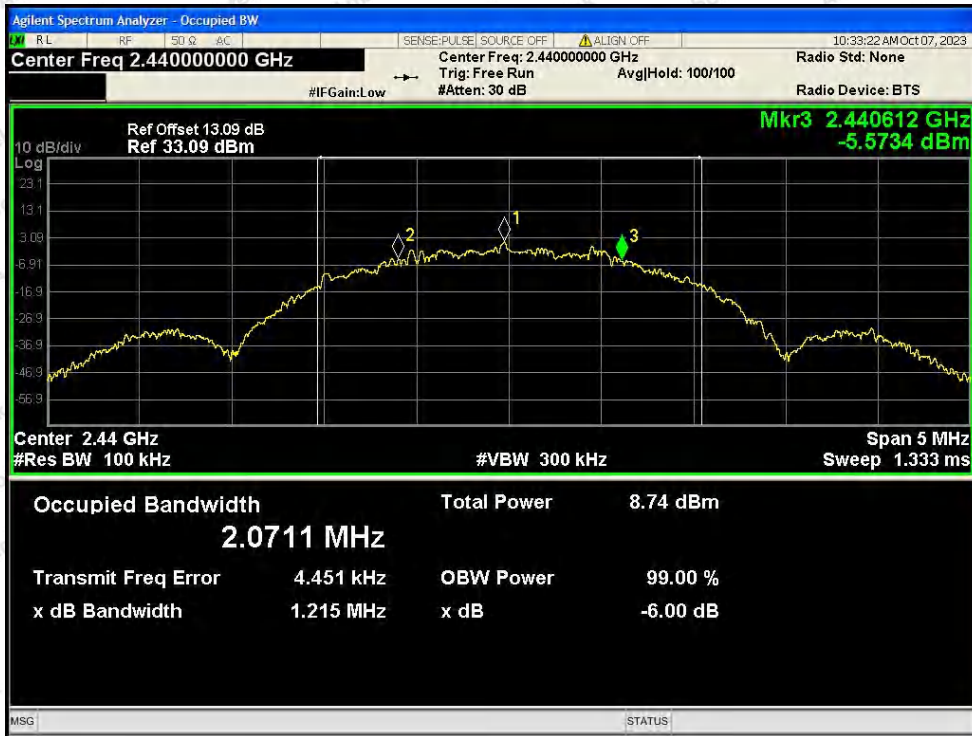
-6dB Bandwidth NVNT BLE 1M 2480MHz Ant1



-6dB Bandwidth NVNT BLE 2M 2402MHz Ant1



-6dB Bandwidth NVNT BLE 2M 2440MHz Ant1



-6dB Bandwidth NVNT BLE 2M 2480MHz Ant1



### A.5. Conducted Spurious Emissions

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
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NVNT	BLE 1M	2402	Ant1	-31.06	-20	Pass
NVNT	BLE 1M	2440	Ant1	-31.25	-20	Pass
NVNT	BLE 1M	2480	Ant1	-31.48	-20	Pass
NVNT	BLE 2M	2402	Ant1	-30.84	-20	Pass
NVNT	BLE 2M	2440	Ant1	-29.93	-20	Pass
NVNT	BLE 2M	2480	Ant1	-31.13	-20	Pass

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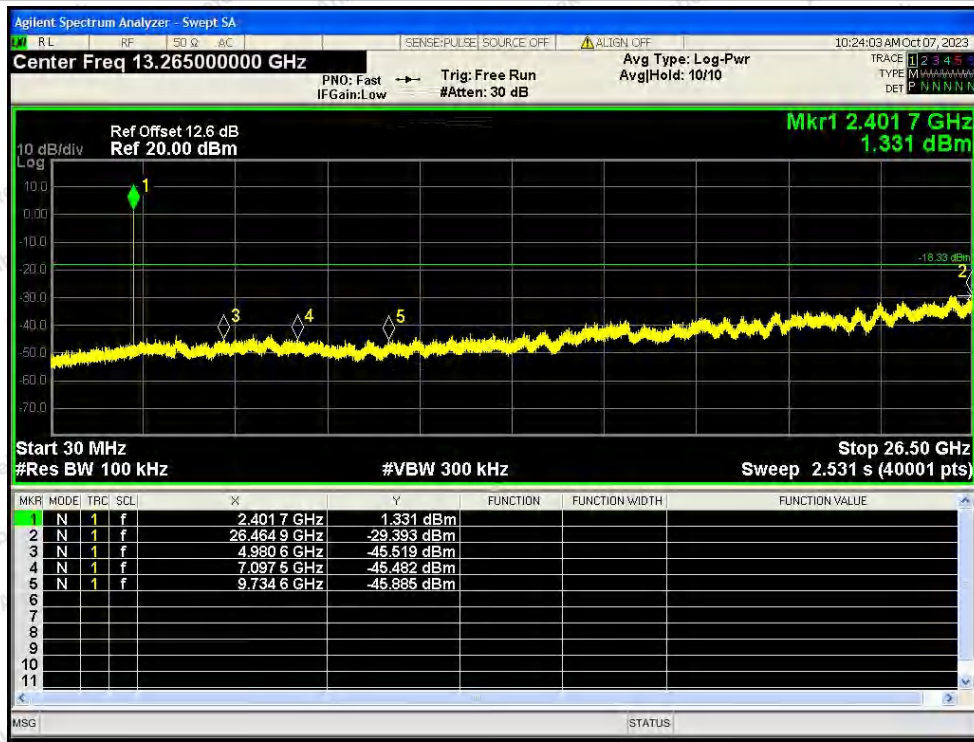


### Test Graphs

Tx. Spurious NVNT BLE 1M 2402MHz Ant1 Ref



Tx. Spurious NVNT BLE 1M 2402MHz Ant1 Emission



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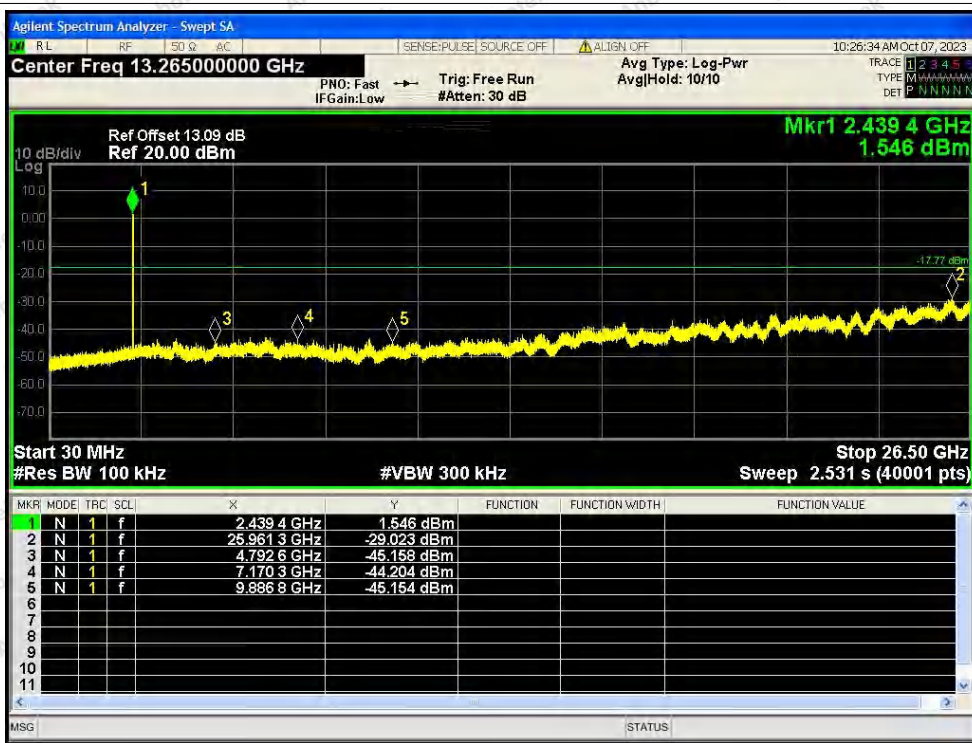
Hotline 400-003-0500  
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### Tx. Spurious NVNT BLE 1M 2440MHz Ant1 Ref



### Tx. Spurious NVNT BLE 1M 2440MHz Ant1 Emission



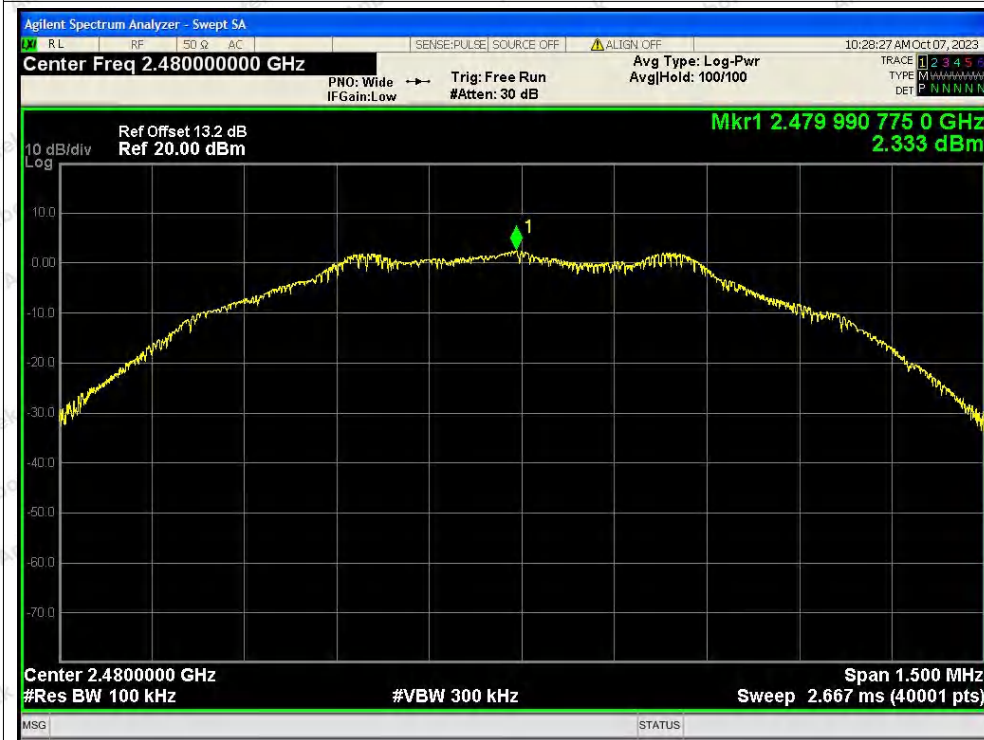
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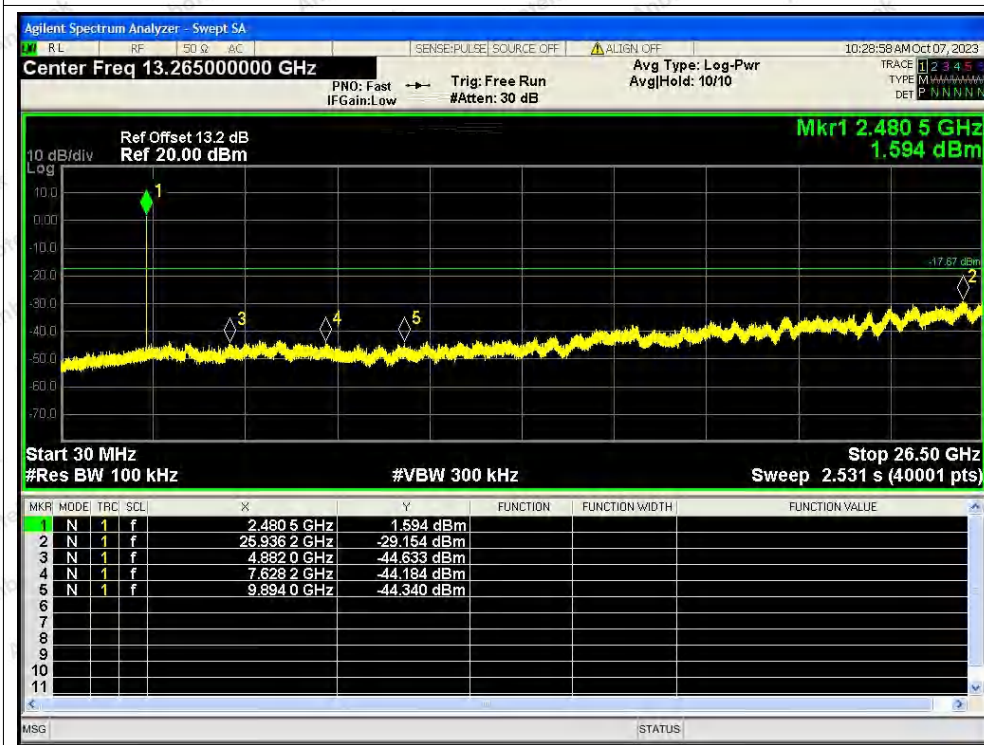
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### Tx. Spurious NVNT BLE 1M 2480MHz Ant1 Ref



### Tx. Spurious NVNT BLE 1M 2480MHz Ant1 Emission



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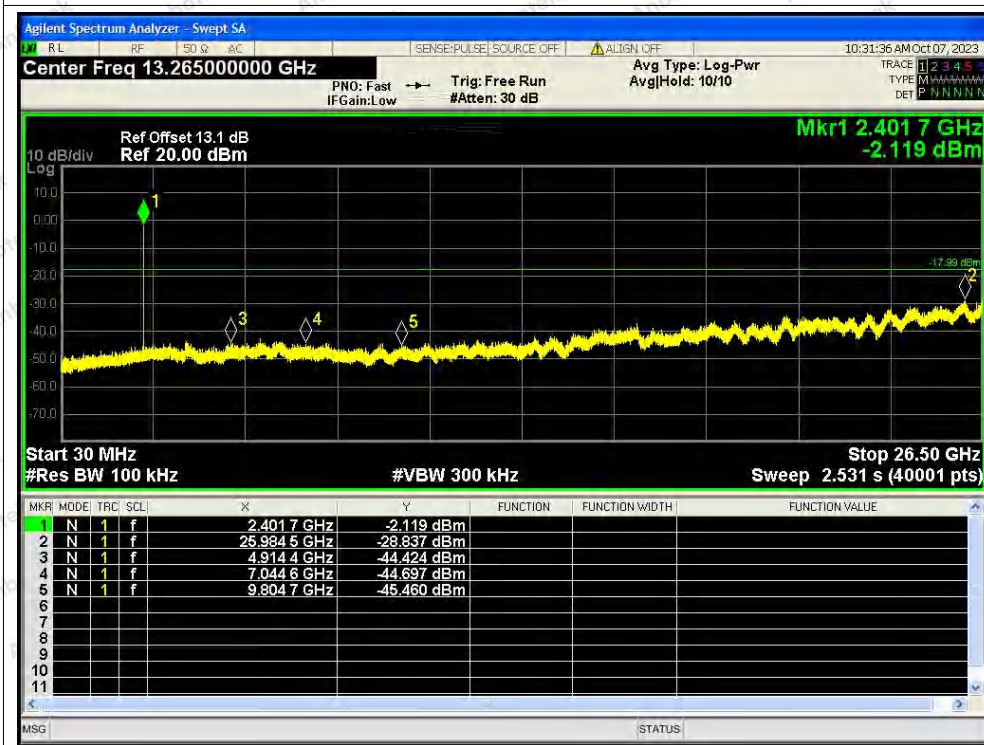
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### Tx. Spurious NVNT BLE 2M 2402MHz Ant1 Ref



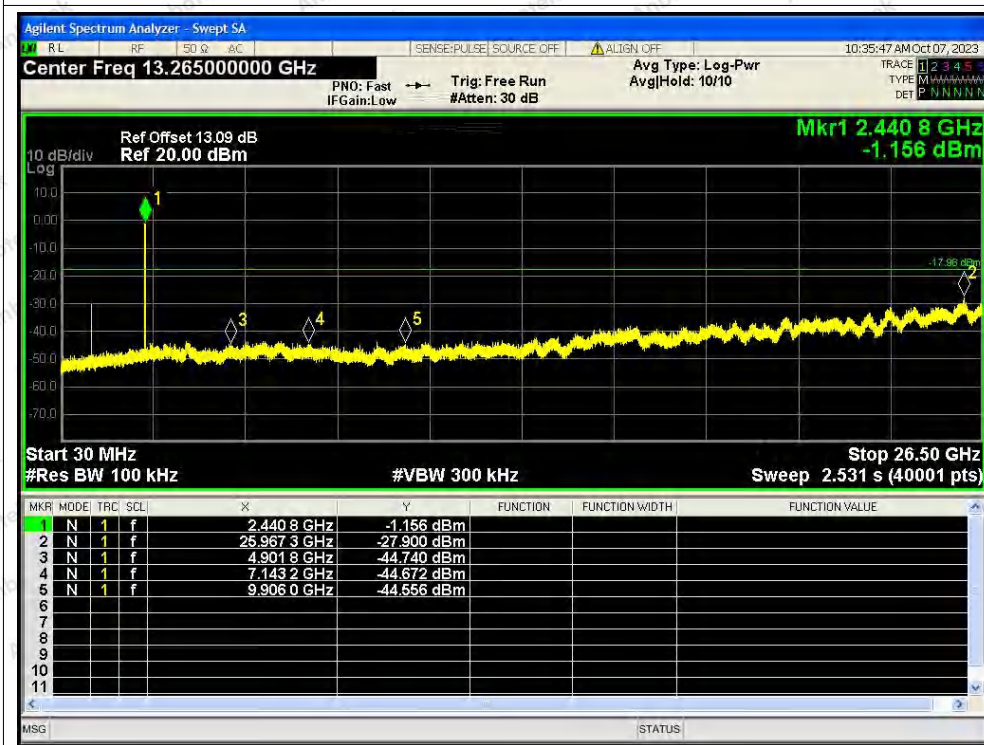
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### Tx. Spurious NVNT BLE 2M 2440MHz Ant1 Ref



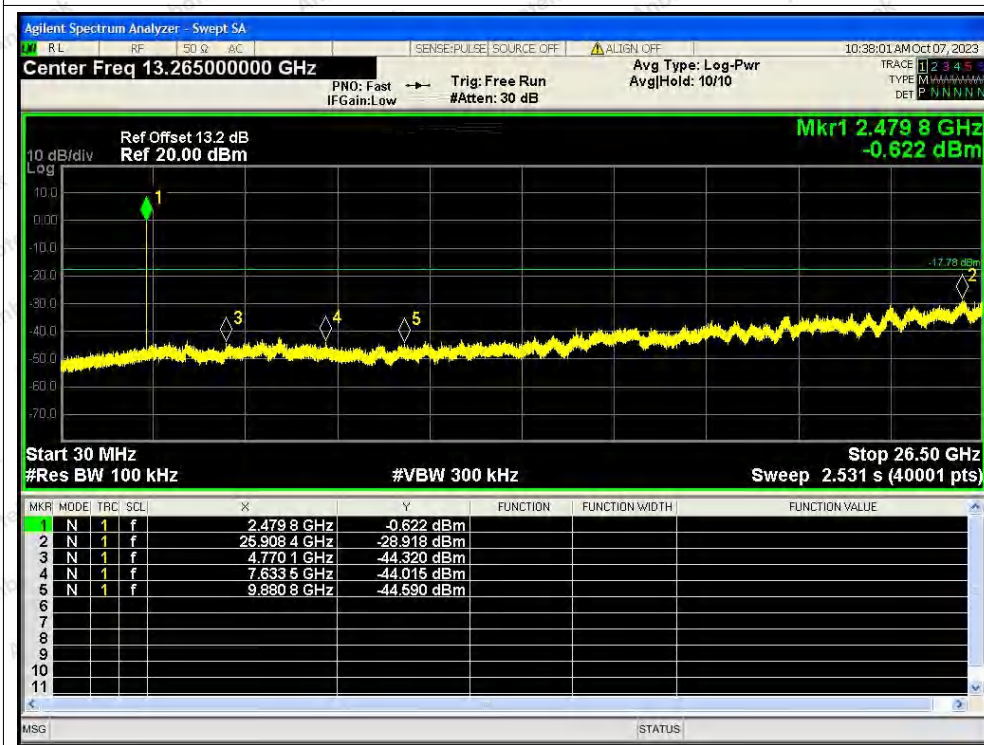
### Tx. Spurious NVNT BLE 2M 2440MHz Ant1 Emission



### Tx. Spurious NVNT BLE 2M 2480MHz Ant1 Ref



### Tx. Spurious NVNT BLE 2M 2480MHz Ant1 Emission



**A.6. Band Edge**

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	Ant1	-48.26	-20	Pass
NVNT	BLE 1M	2480	Ant1	-47.01	-20	Pass
NVNT	BLE 2M	2402	Ant1	-32.09	-20	Pass
NVNT	BLE 2M	2480	Ant1	-46.99	-20	Pass

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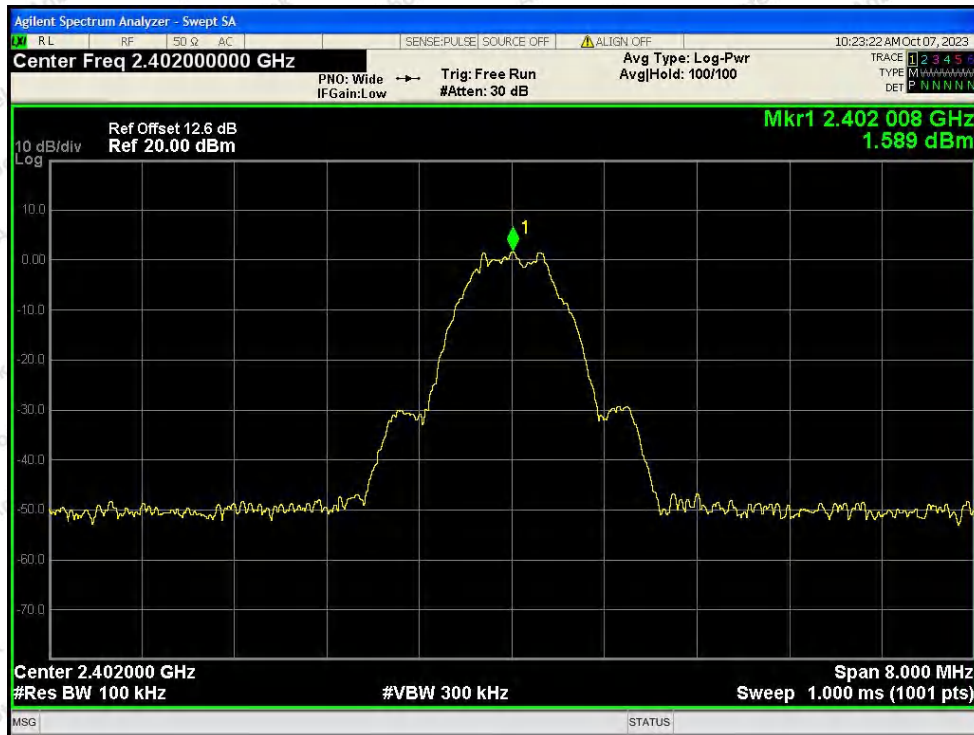
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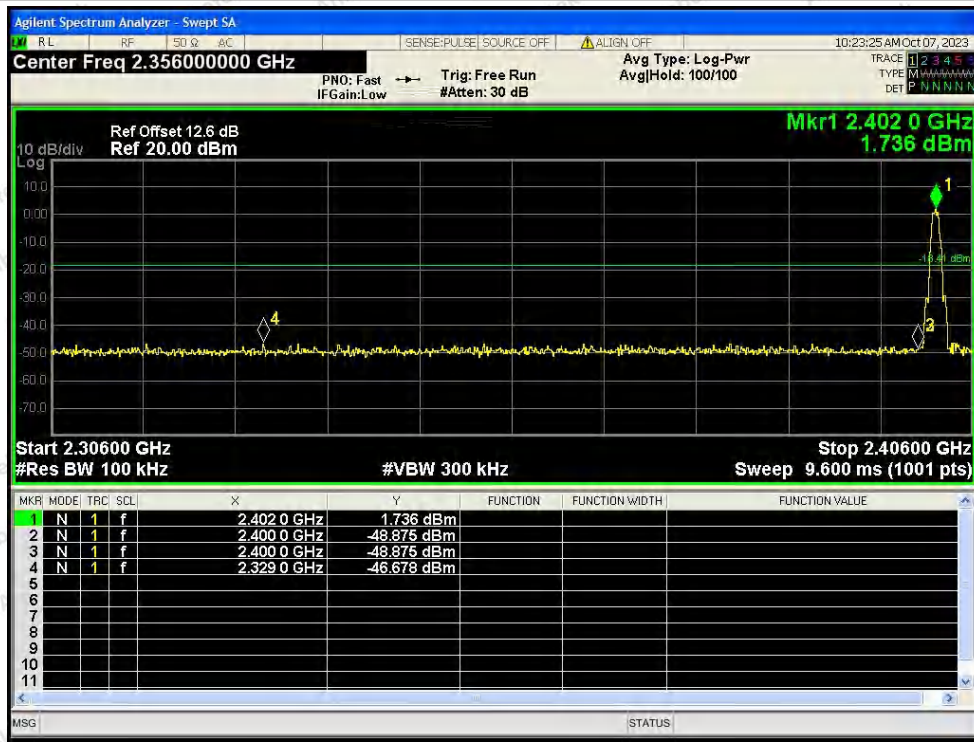


### Test Graphs

Band Edge NVNT BLE 1M 2402MHz Ant1 Ref



Band Edge NVNT BLE 1M 2402MHz Ant1 Emission



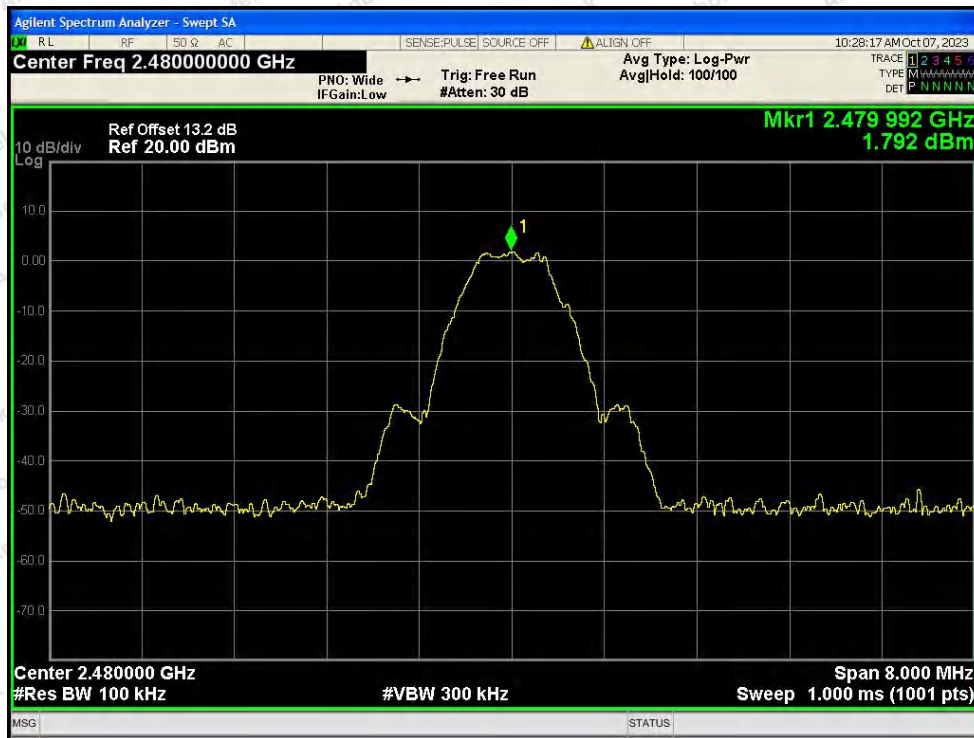
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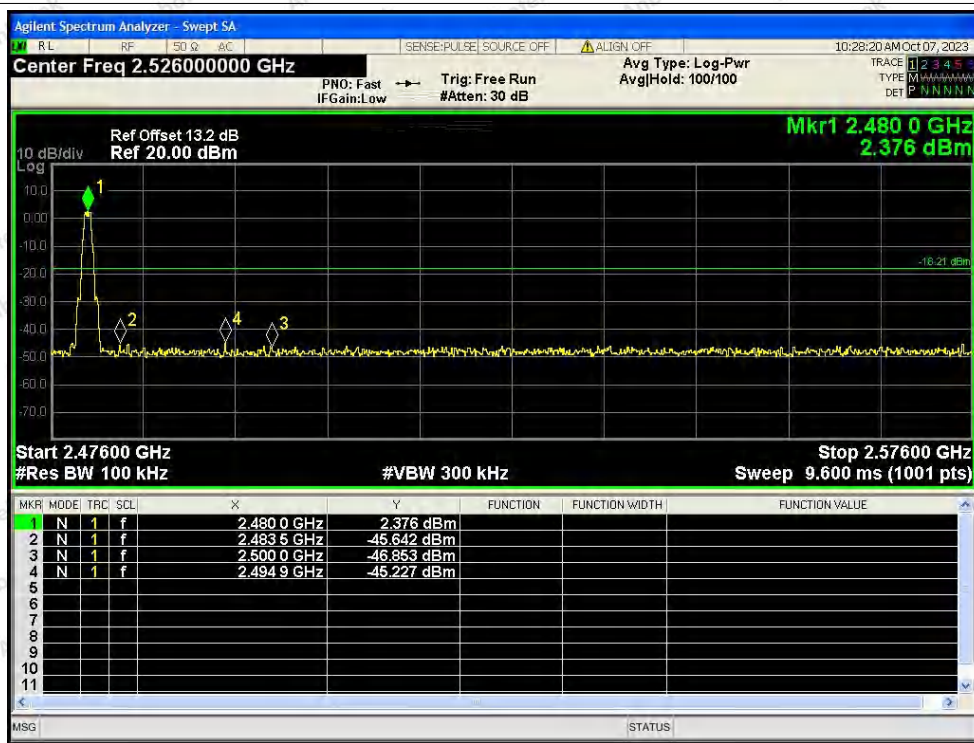
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### Band Edge NVNT BLE 1M 2480MHz Ant1 Ref



### Band Edge NVNT BLE 1M 2480MHz Ant1 Emission



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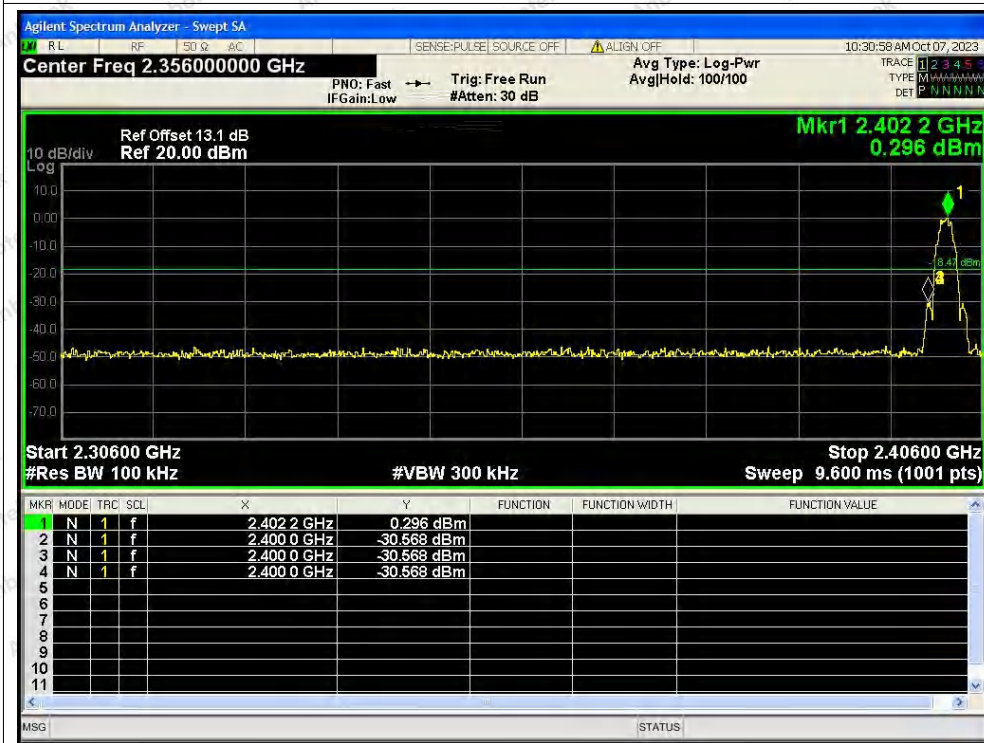
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### Band Edge NVNT BLE 2M 2402MHz Ant1 Ref



### Band Edge NVNT BLE 2M 2402MHz Ant1 Emission



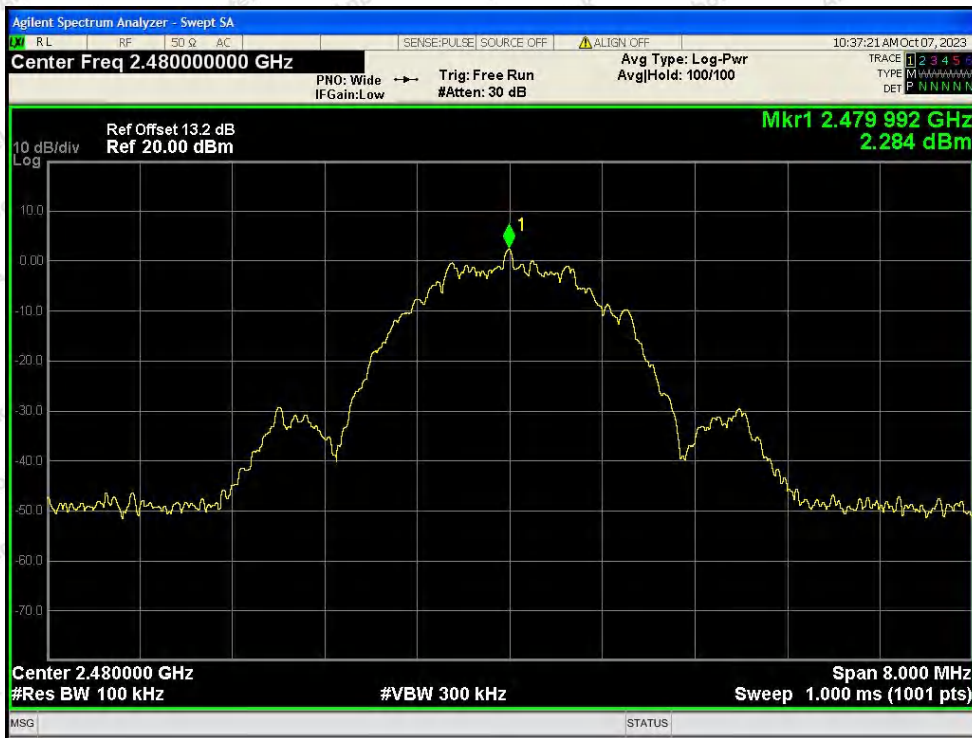
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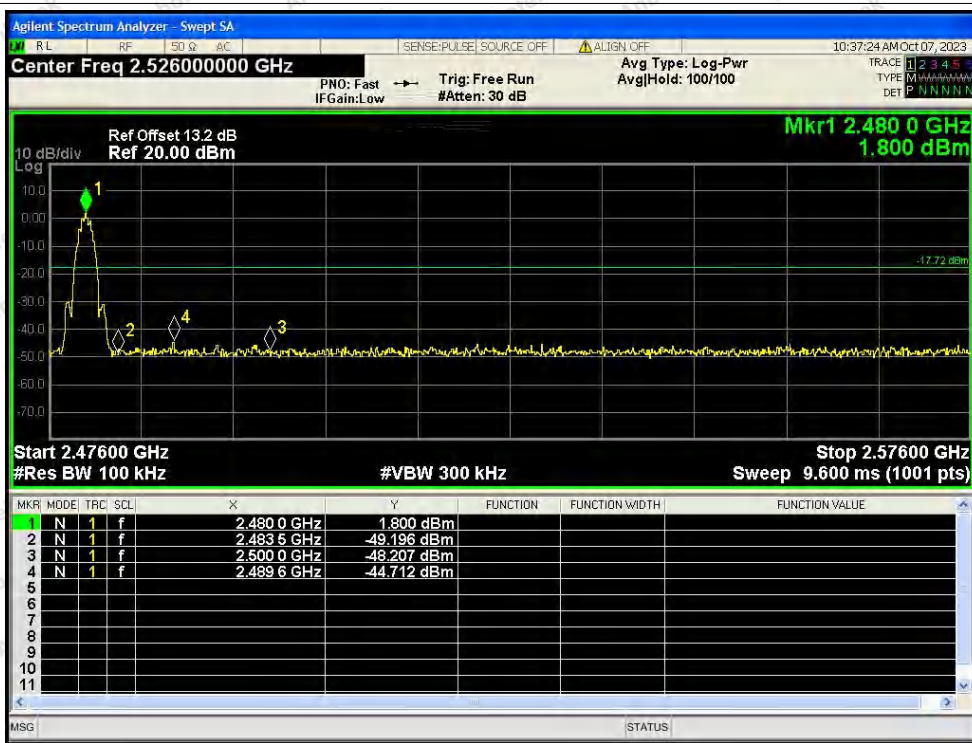
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### Band Edge NVNT BLE 2M 2480MHz Ant1 Ref



### Band Edge NVNT BLE 2M 2480MHz Ant1 Emission



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## A.7. Power Spectral Density

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/3kHz)	Duty Factor (dB)	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	BLE 1M	2402	Ant1	-12.6	0	-12.6	8	Pass
NVNT	BLE 1M	2440	Ant1	-12.04	0	-12.04	8	Pass
NVNT	BLE 1M	2480	Ant1	-11.94	0	-11.94	8	Pass
NVNT	BLE 2M	2402	Ant1	-16.04	0	-16.04	8	Pass
NVNT	BLE 2M	2440	Ant1	-16.1	0	-16.1	8	Pass
NVNT	BLE 2M	2480	Ant1	-15.79	0	-15.79	8	Pass

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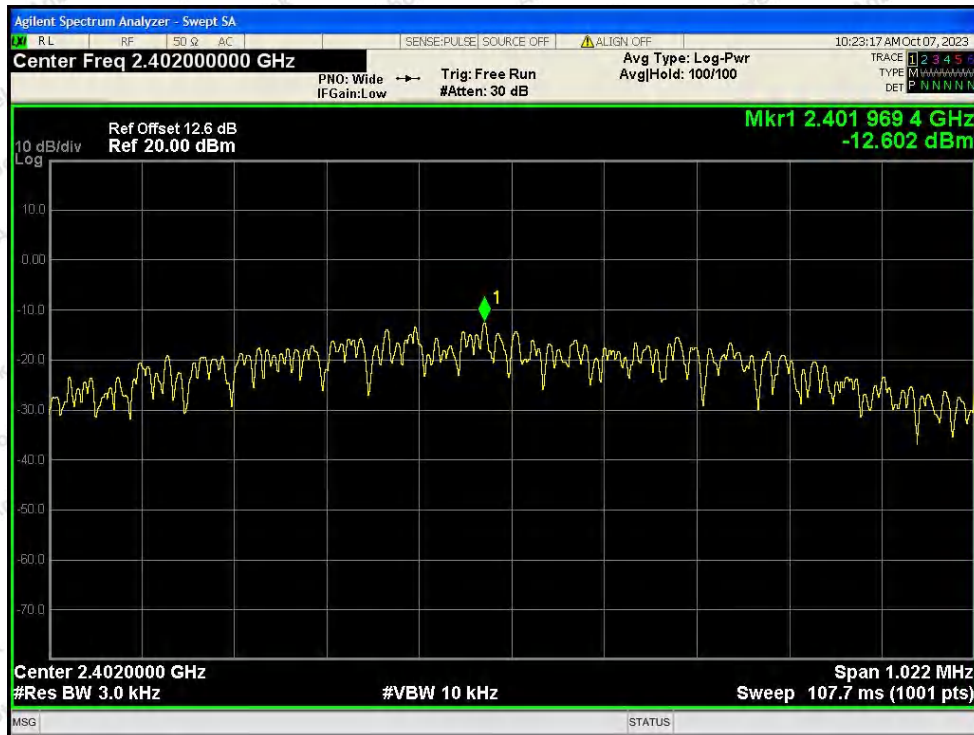


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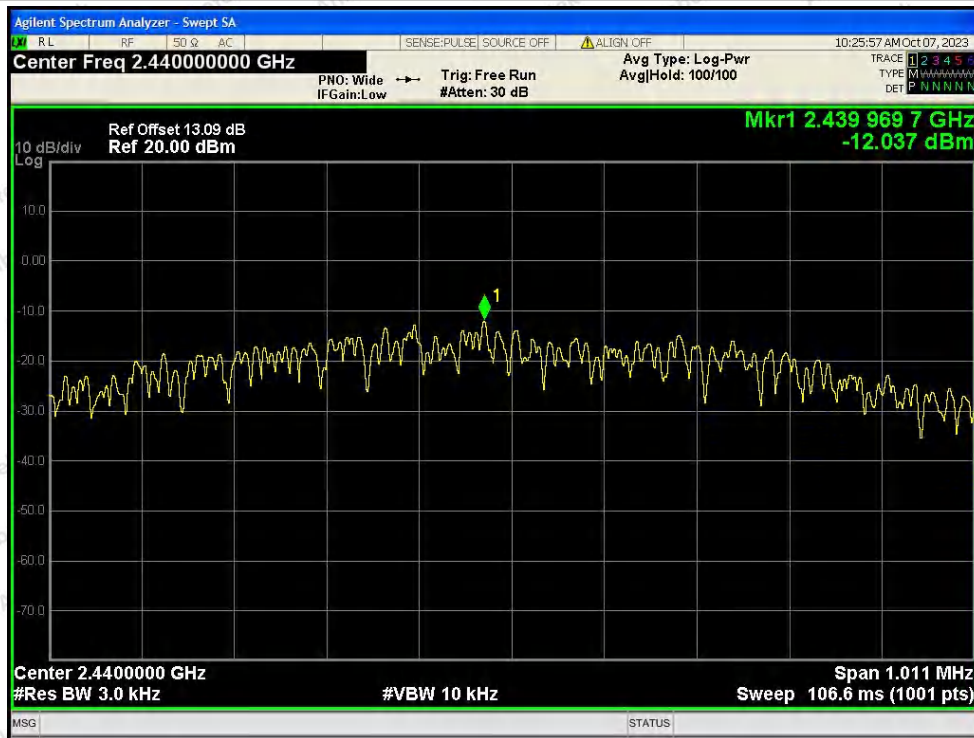


### Test Graphs

#### PSD NVNT BLE 1M 2402MHz Ant1



#### PSD NVNT BLE 1M 2440MHz Ant1



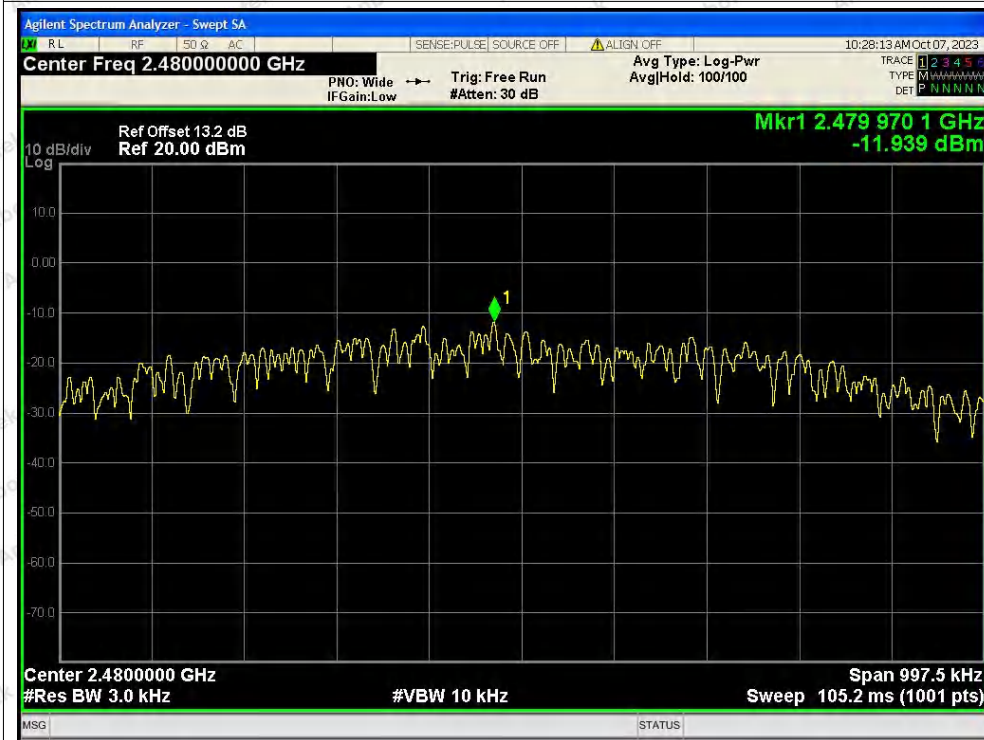
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### PSD NVNT BLE 1M 2480MHz Ant1



### PSD NVNT BLE 2M 2402MHz Ant1



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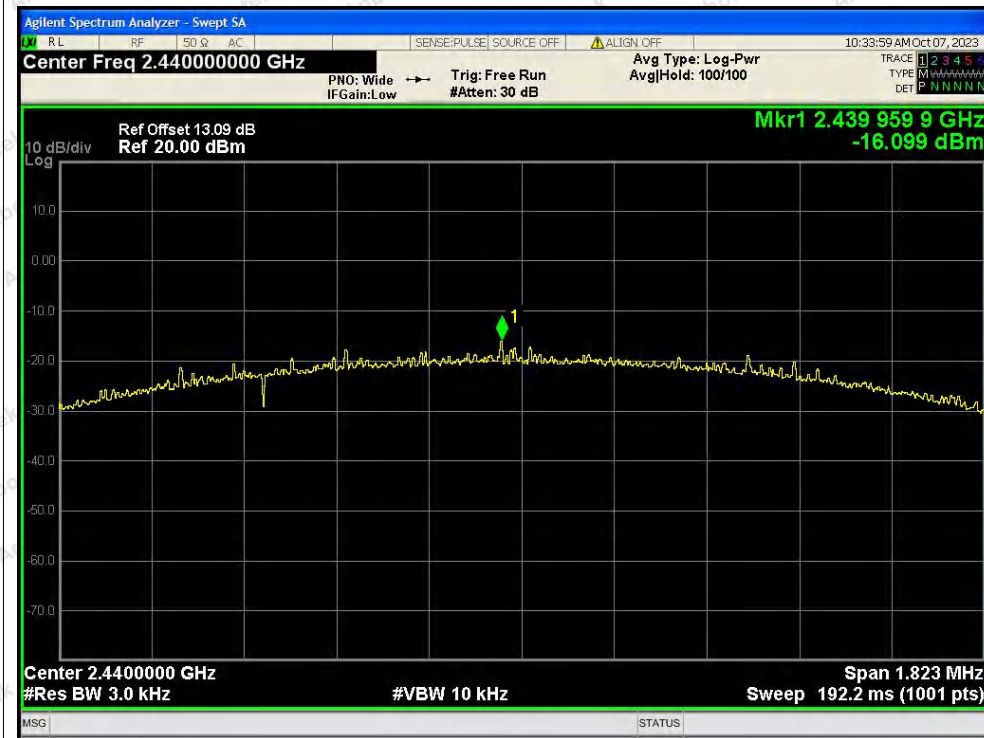
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.  
Tel: (86) 0755-26066440 Fax: (86) 0755-26014772 Email: service@anbotek.com



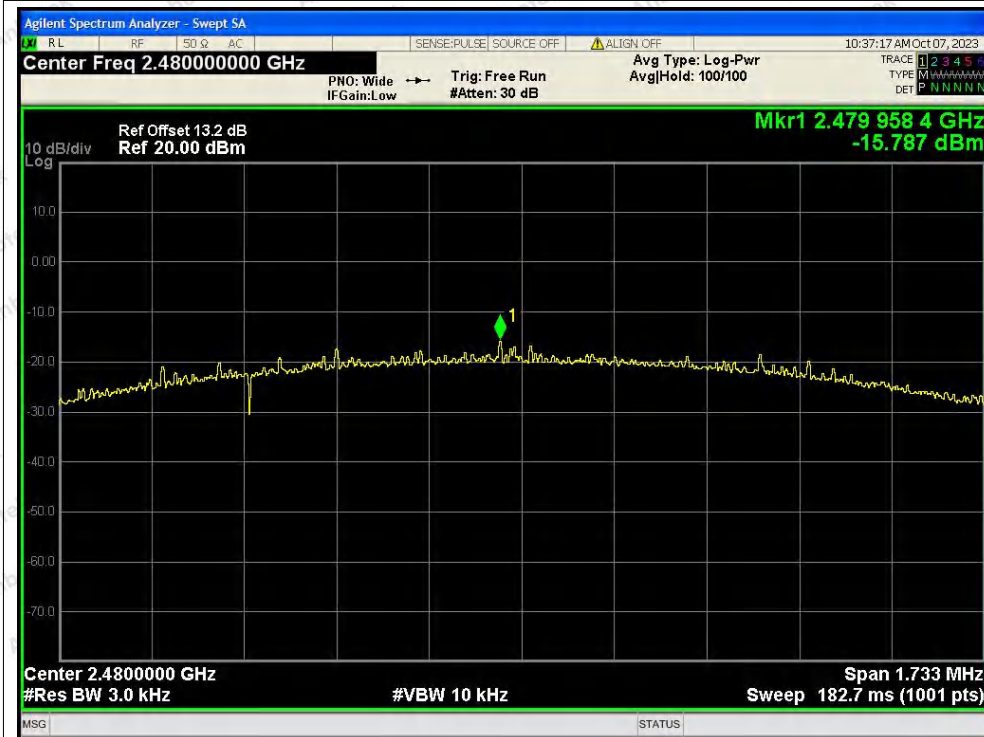
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### PSD NVNT BLE 2M 2440MHz Ant1



### PSD NVNT BLE 2M 2480MHz Ant1



--END--

### Shenzhen Anbotek Compliance Laboratory Limited

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