

# RF Test Data for 2.4G WiFi (Conducted Measurements)

General Description of EUT	
<b>Product Name:</b>	Explore Mysetry
<b>Test Model:</b>	YS02
<b>Sample ID:</b>	202401-0347-7-2#
Environmental Conditions	
<b>Temperature:</b>	25°C
<b>Relative Humidity:</b>	55%
<b>Test Voltage:</b>	DC 3.7V
<b>Test Engineer:</b>	Jolin Lee
Note: For a more detailed features description, please refer to the report TBR-C-202401-0347-12 The report only show the worst case data.	

## Contents

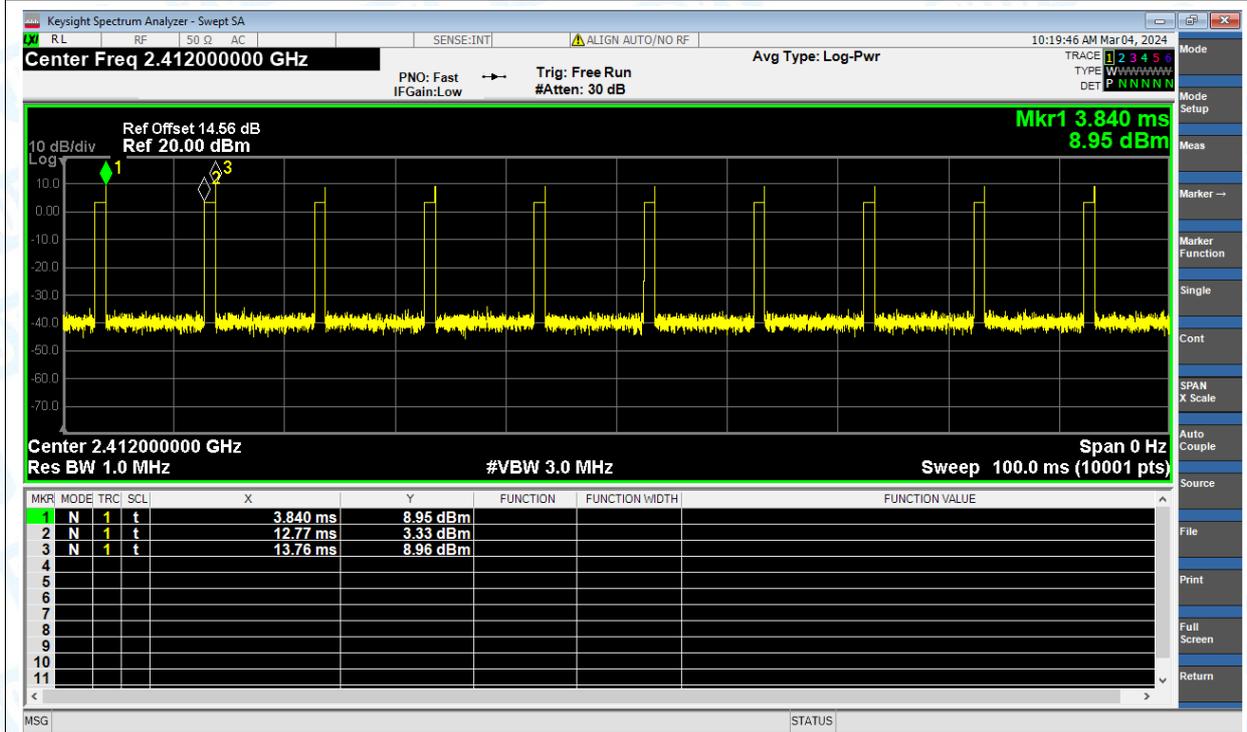
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# 1. Duty Cycle

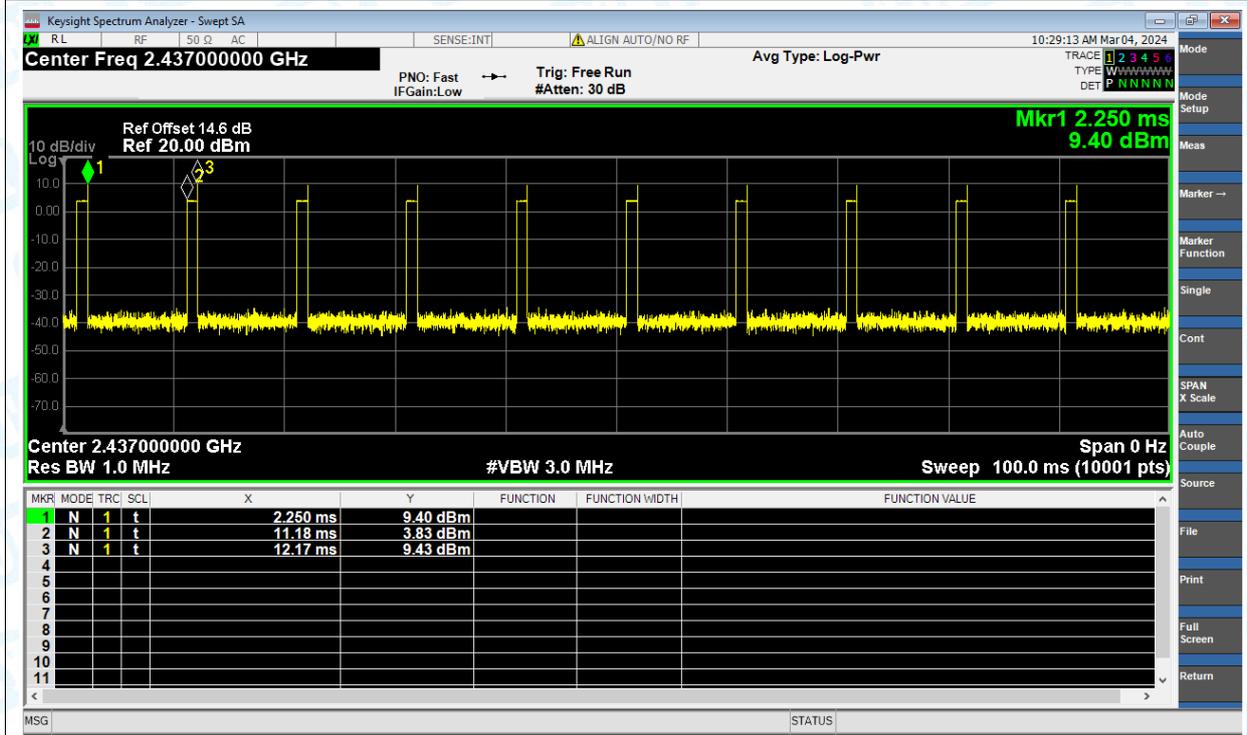
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	b	2412	Ant1	9.98	10.01	1.01
NVNT	b	2437	Ant1	9.98	10.01	1.01
NVNT	b	2462	Ant1	10.07	9.97	1
NVNT	g	2412	Ant1	9.64	10.16	6.25
NVNT	g	2437	Ant1	9.64	10.16	6.25
NVNT	g	2462	Ant1	9.7	10.13	6.25
NVNT	n(HT20)	2412	Ant1	9.41	10.26	6.25
NVNT	n(HT20)	2437	Ant1	10	10	5.88
NVNT	n(HT20)	2462	Ant1	10	10	5.88
NVNT	n(HT40)	2422	Ant1	10.38	9.84	9.09
NVNT	n(HT40)	2437	Ant1	9.43	10.25	10
NVNT	n(HT40)	2452	Ant1	9.52	10.21	10

Test Graphs

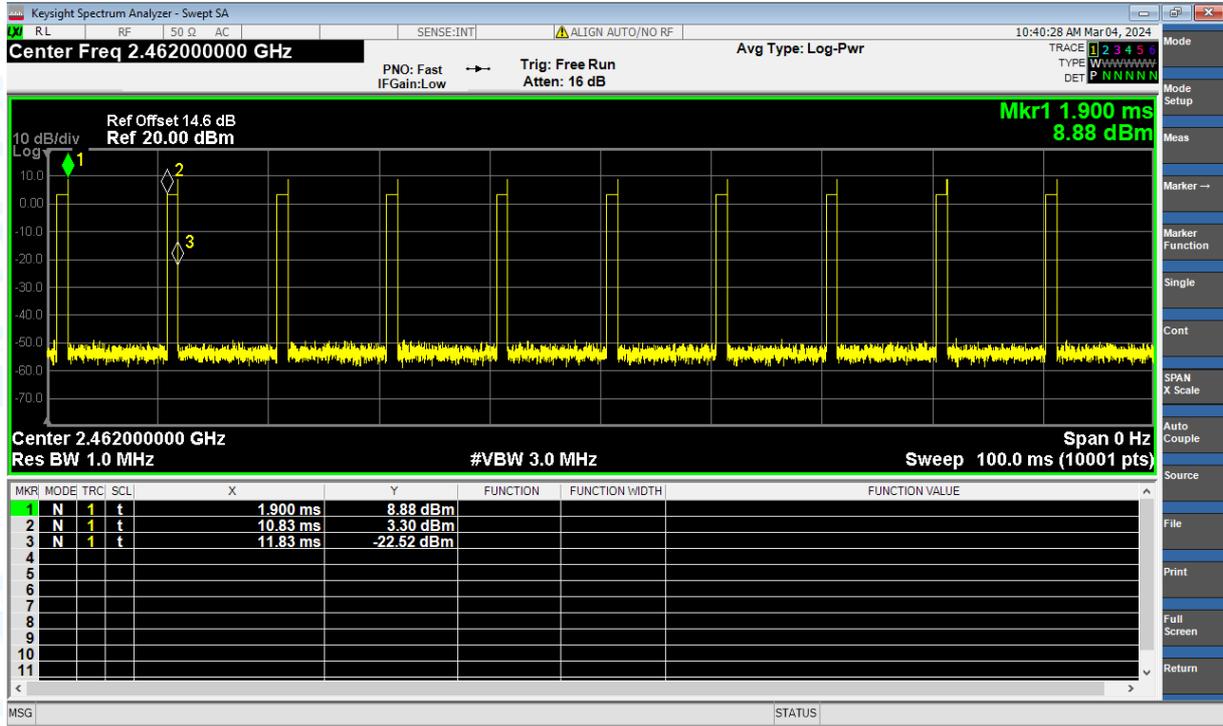
Duty Cycle NVNT b 2412MHz Ant1



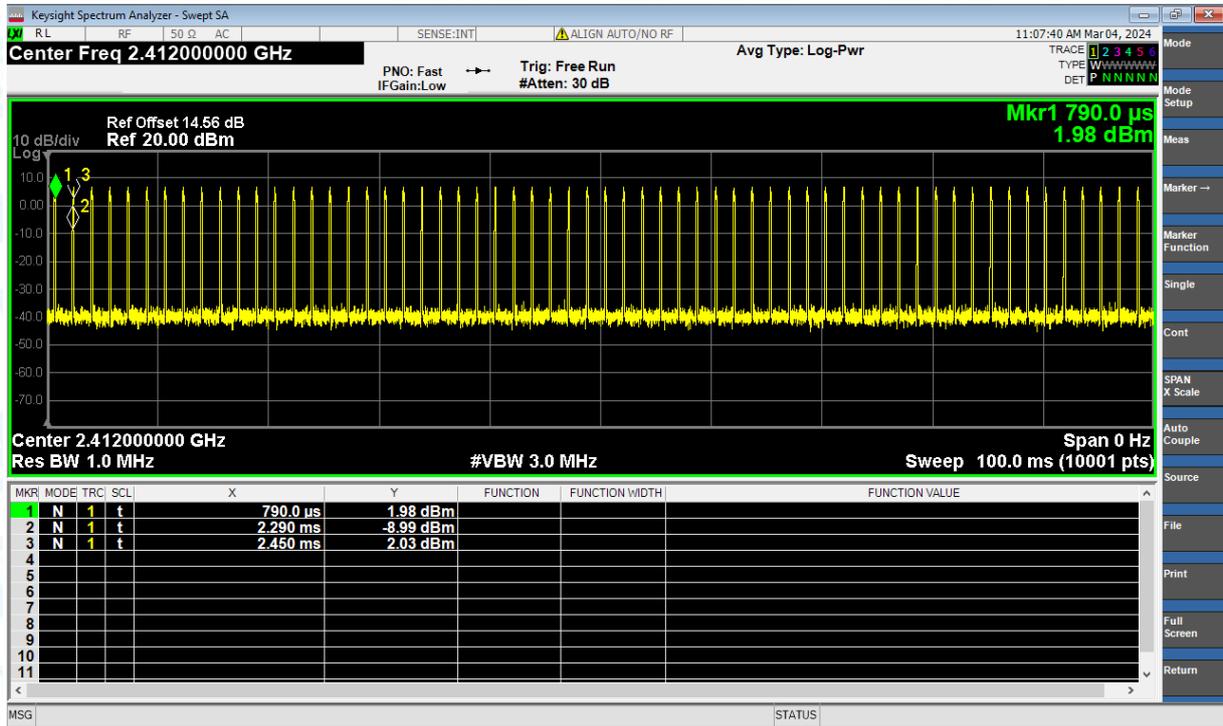
Duty Cycle NVNT b 2437MHz Ant1



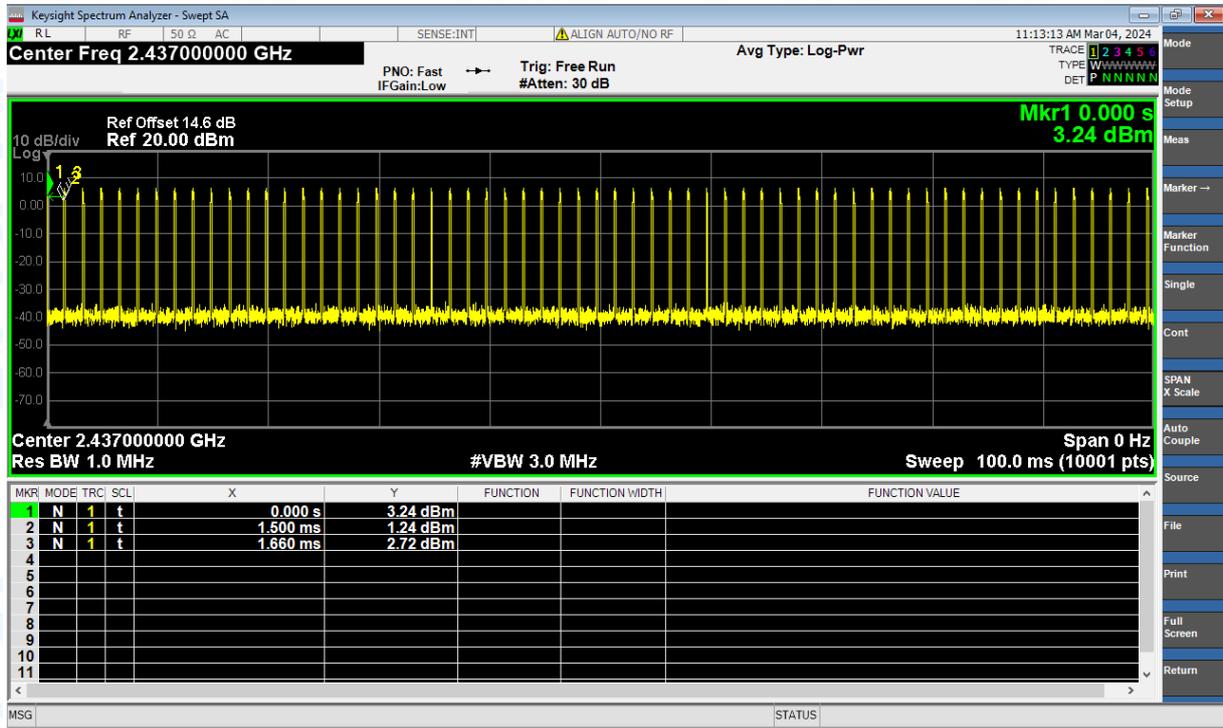
Duty Cycle NVNT b 2462MHz Ant1



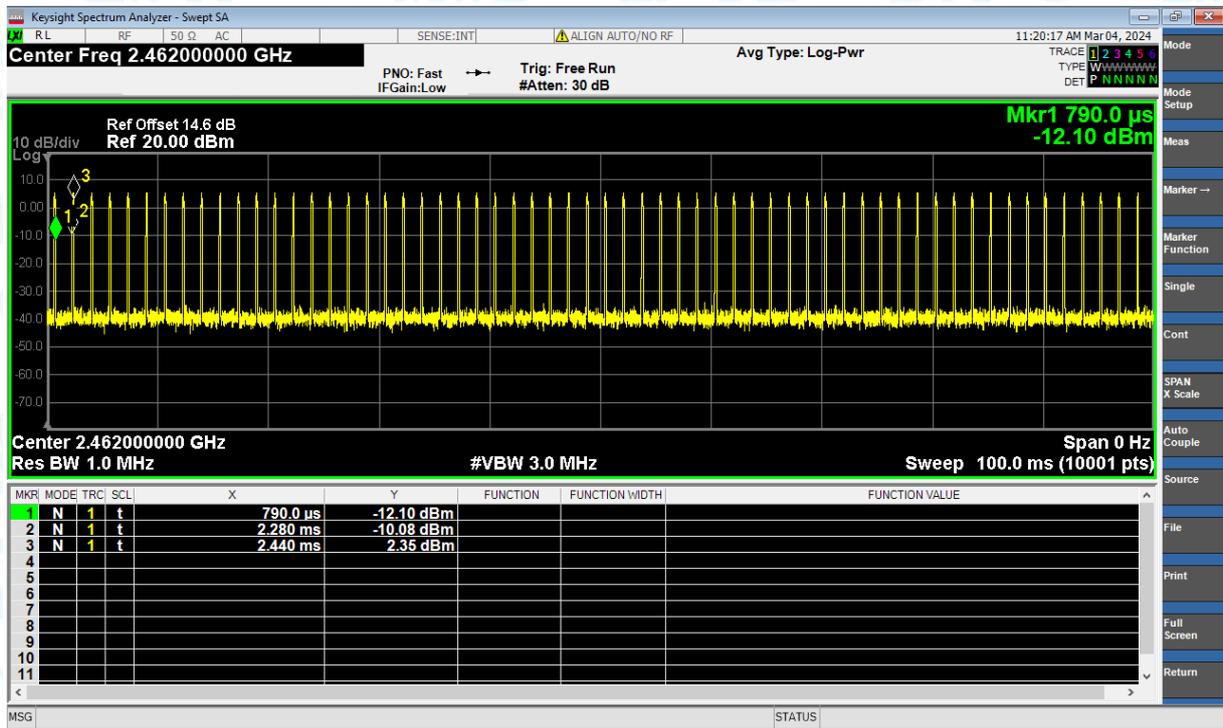
Duty Cycle NVNT g 2412MHz Ant1



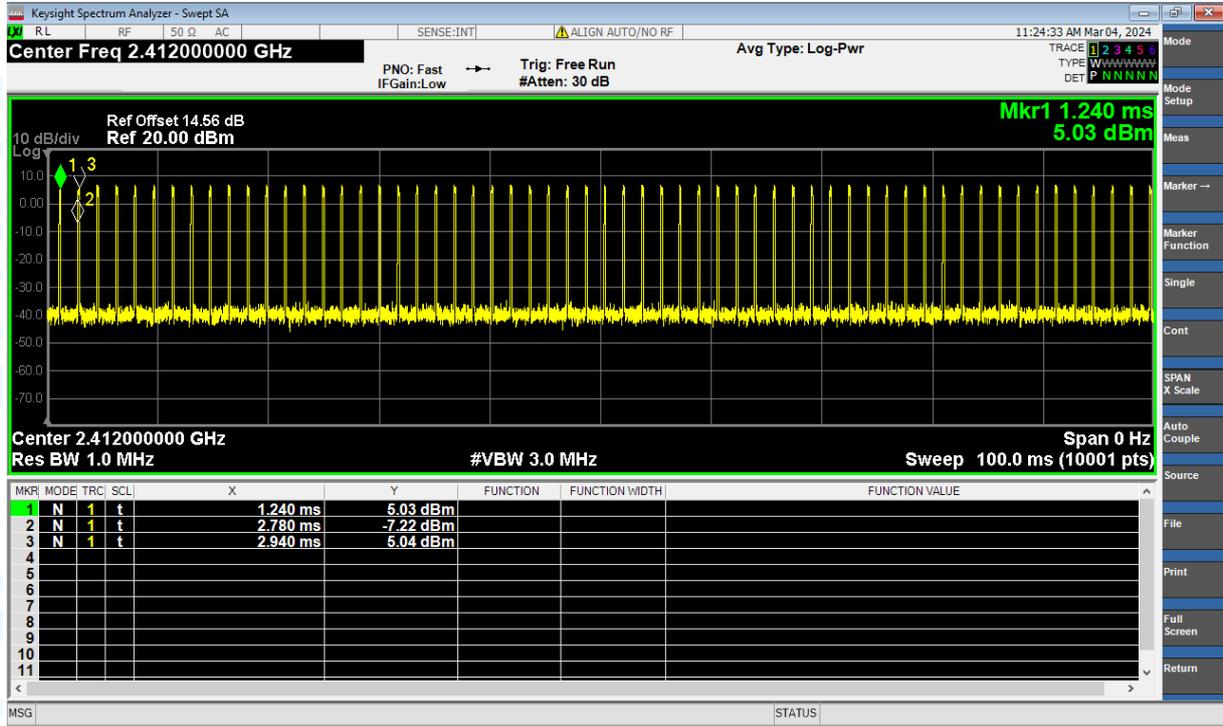
Duty Cycle NVNT g 2437MHz Ant1



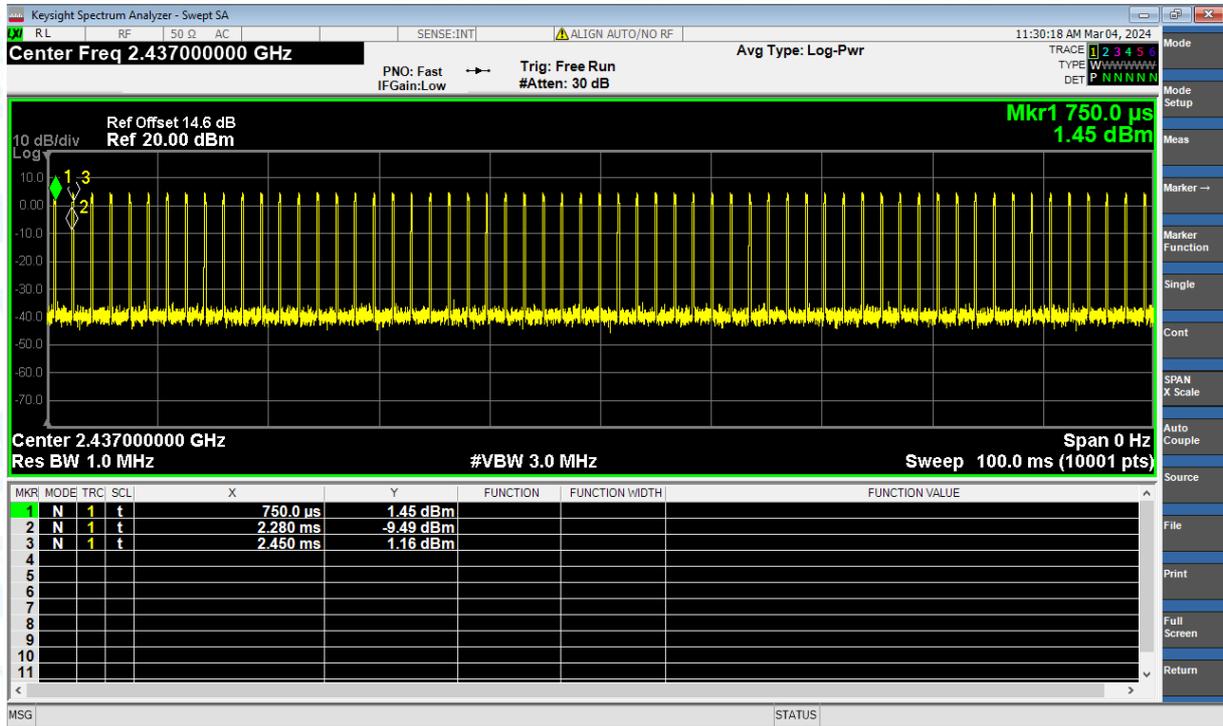
Duty Cycle NVNT g 2462MHz Ant1



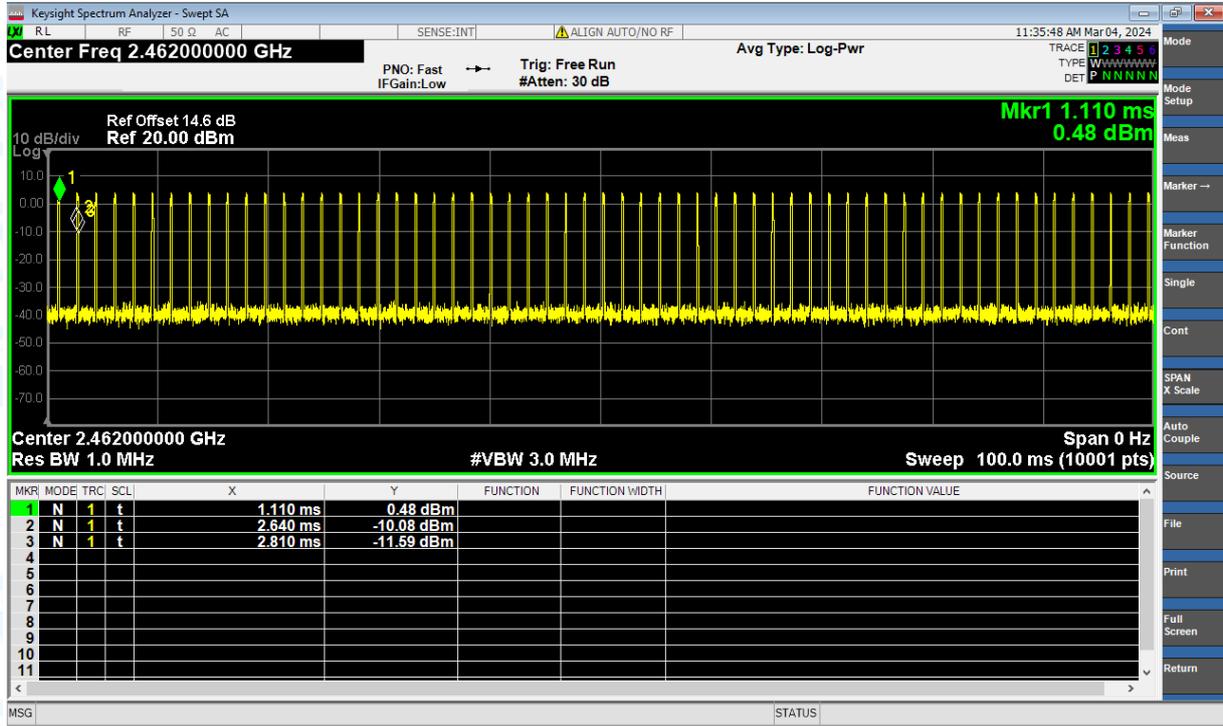
Duty Cycle NVNT n(HT20) 2412MHz Ant1



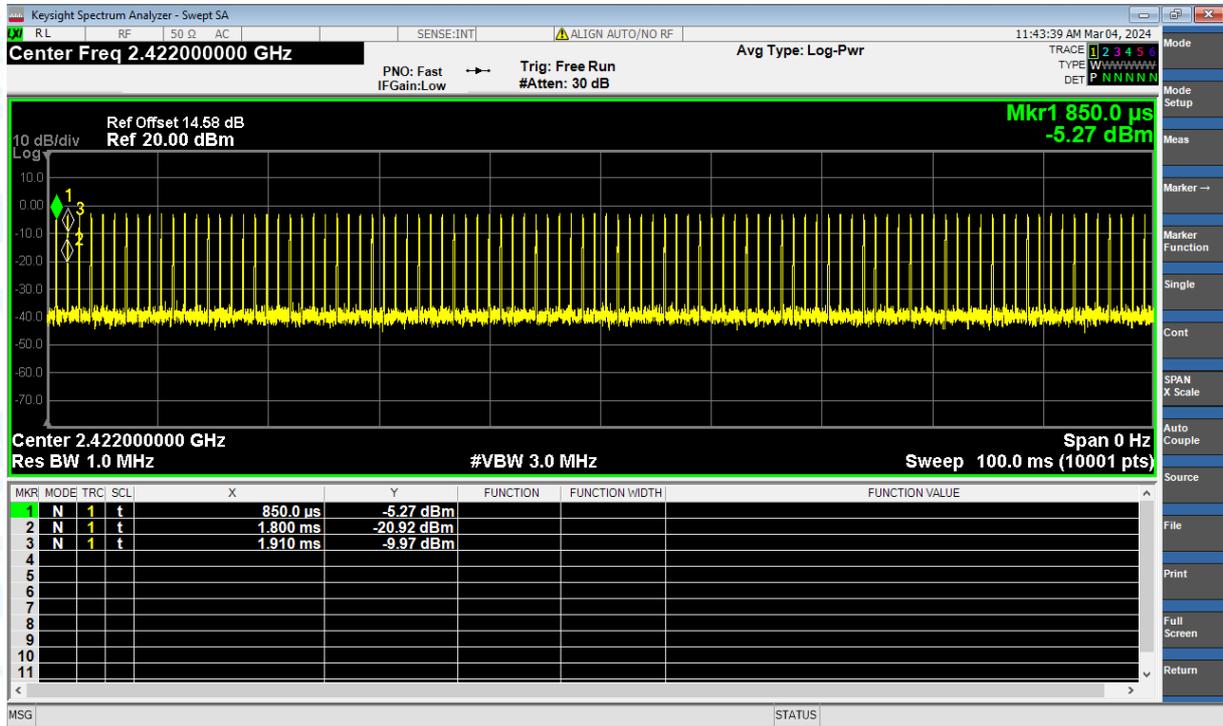
Duty Cycle NVNT n(HT20) 2437MHz Ant1



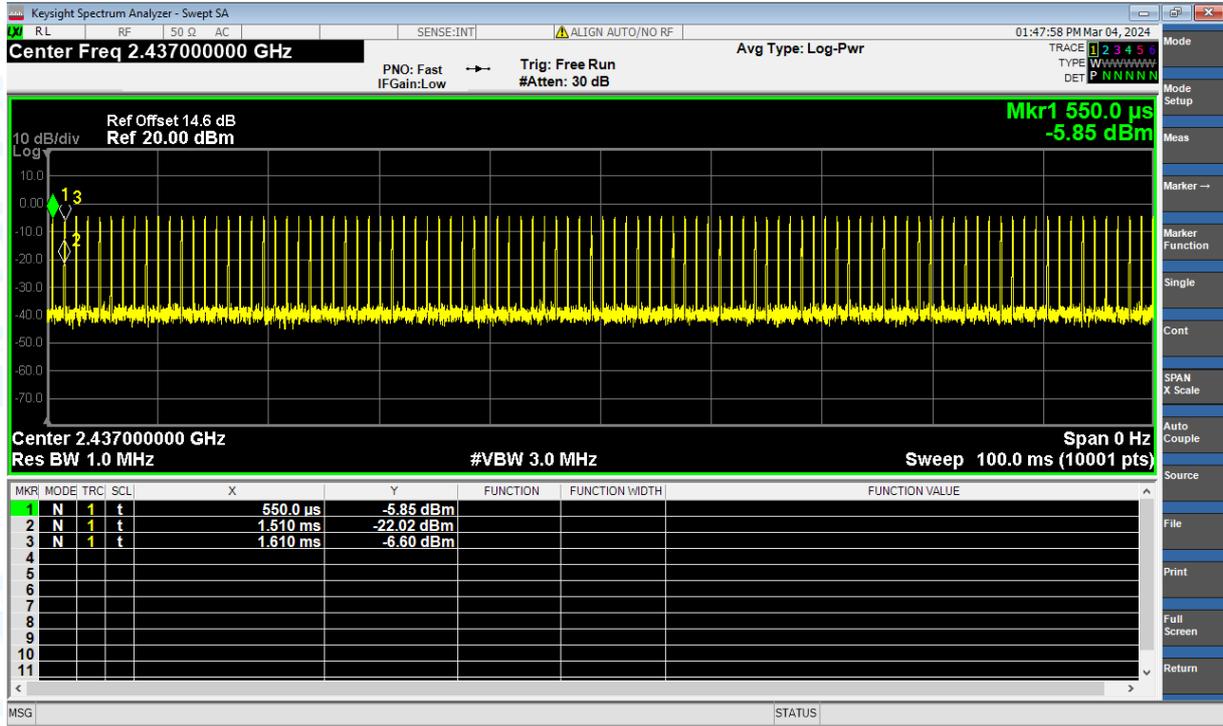
Duty Cycle NVNT n(HT20) 2462MHz Ant1



Duty Cycle NVNT n(HT40) 2422MHz Ant1



Duty Cycle NVNT n(HT40) 2437MHz Ant1



Duty Cycle NVNT n(HT40) 2452MHz Ant1



## 2. Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	Ant1	8.278	30	Pass
NVNT	b	2437	Ant1	8.125	30	Pass
NVNT	b	2462	Ant1	8.036	30	Pass
NVNT	g	2412	Ant1	7.859	30	Pass
NVNT	g	2437	Ant1	8.144	30	Pass
NVNT	g	2462	Ant1	8.024	30	Pass
NVNT	n(HT20)	2412	Ant1	7.824	30	Pass
NVNT	n(HT20)	2437	Ant1	7.846	30	Pass
NVNT	n(HT20)	2462	Ant1	7.849	30	Pass
NVNT	n(HT40)	2422	Ant1	5.427	30	Pass
NVNT	n(HT40)	2437	Ant1	5.99	30	Pass
NVNT	n(HT40)	2452	Ant1	6.425	30	Pass

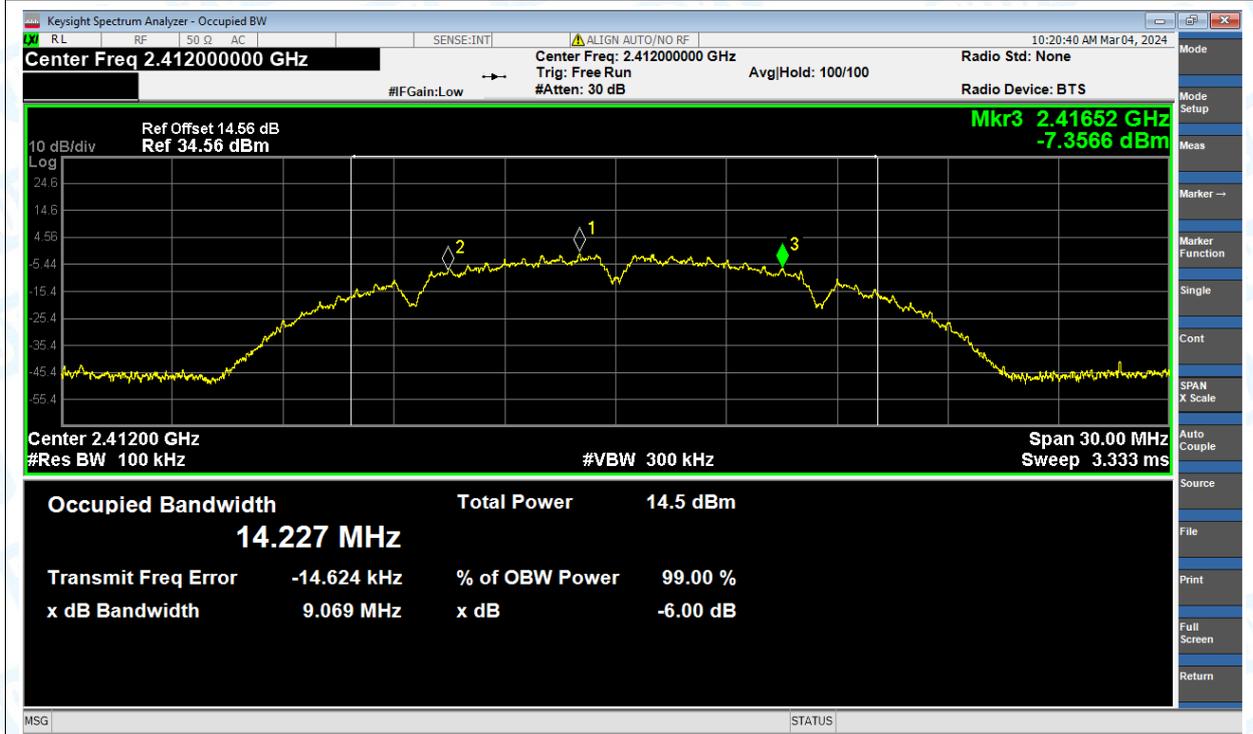
Note: The duty factor has been compensated into the result.

### 3. -6dB Bandwidth

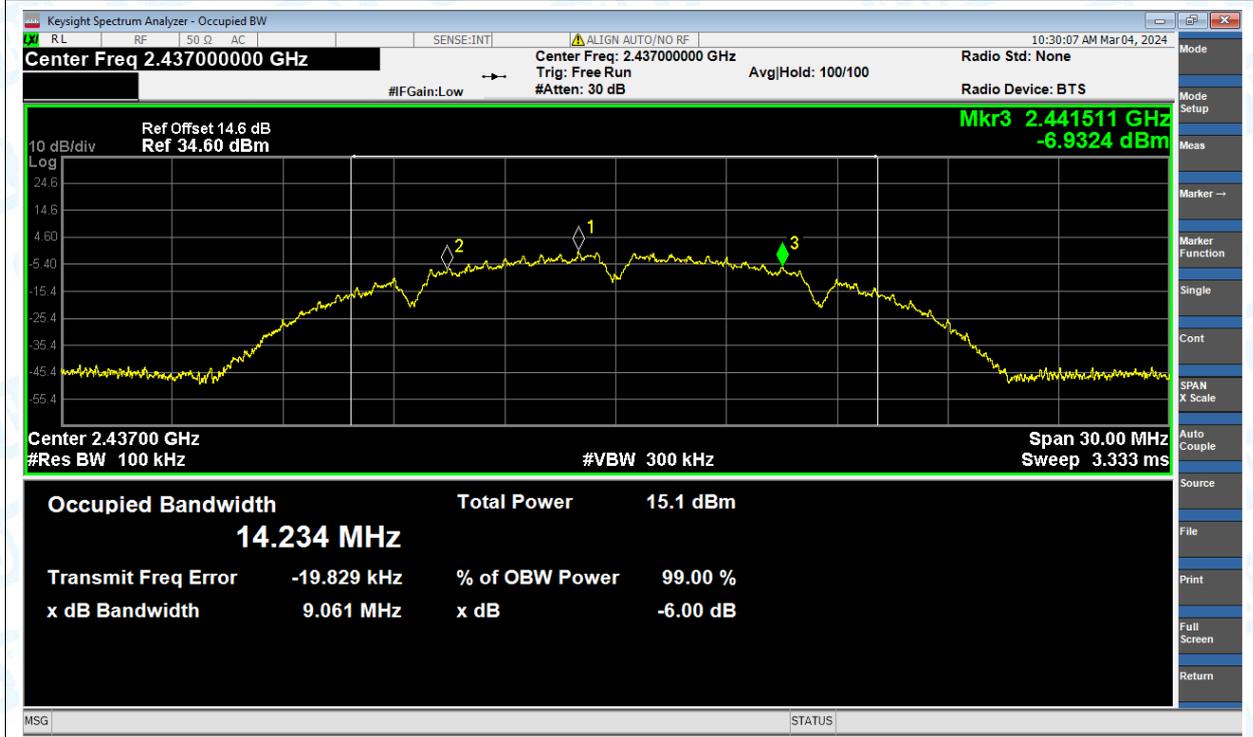
Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	b	2412	Ant1	9.07	0.5	Pass
NVNT	b	2437	Ant1	9.06	0.5	Pass
NVNT	b	2462	Ant1	9.04	0.5	Pass
NVNT	g	2412	Ant1	10.08	0.5	Pass
NVNT	g	2437	Ant1	10.07	0.5	Pass
NVNT	g	2462	Ant1	11.31	0.5	Pass
NVNT	n(HT20)	2412	Ant1	10.06	0.5	Pass
NVNT	n(HT20)	2437	Ant1	10.09	0.5	Pass
NVNT	n(HT20)	2462	Ant1	10.06	0.5	Pass
NVNT	n(HT40)	2422	Ant1	30.07	0.5	Pass
NVNT	n(HT40)	2437	Ant1	30.06	0.5	Pass
NVNT	n(HT40)	2452	Ant1	30.07	0.5	Pass

Test Graphs

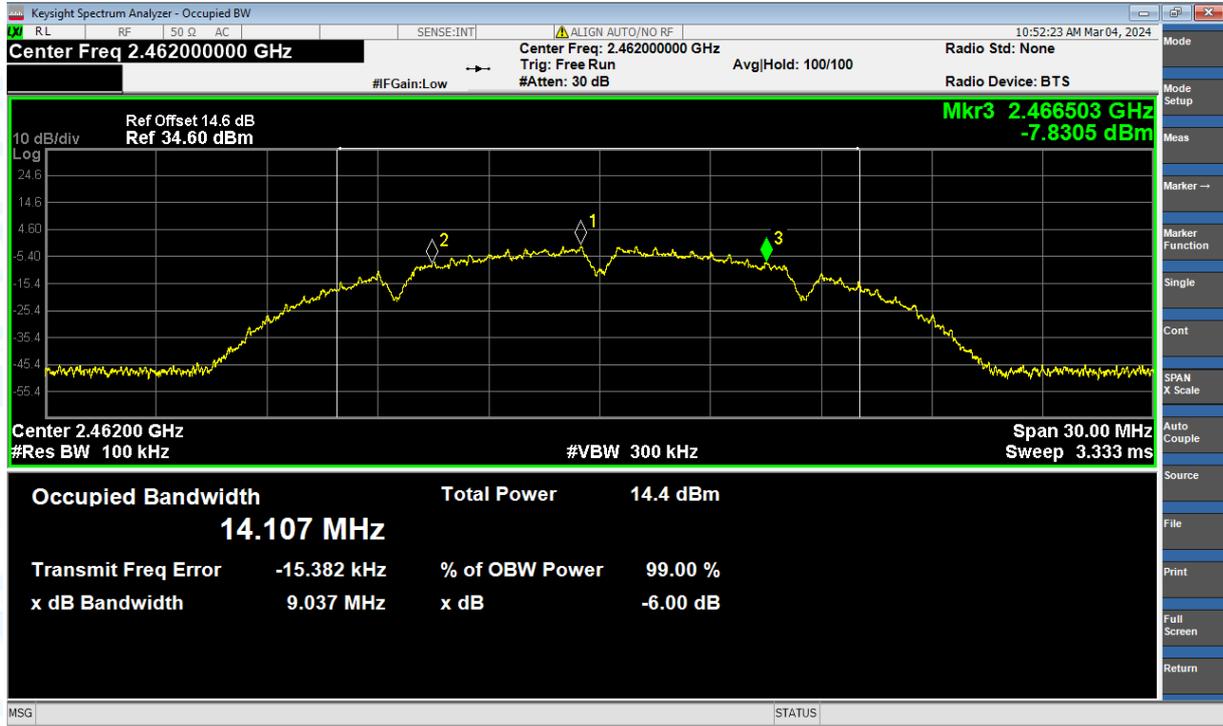
-6dB Bandwidth NVNT b 2412MHz Ant1



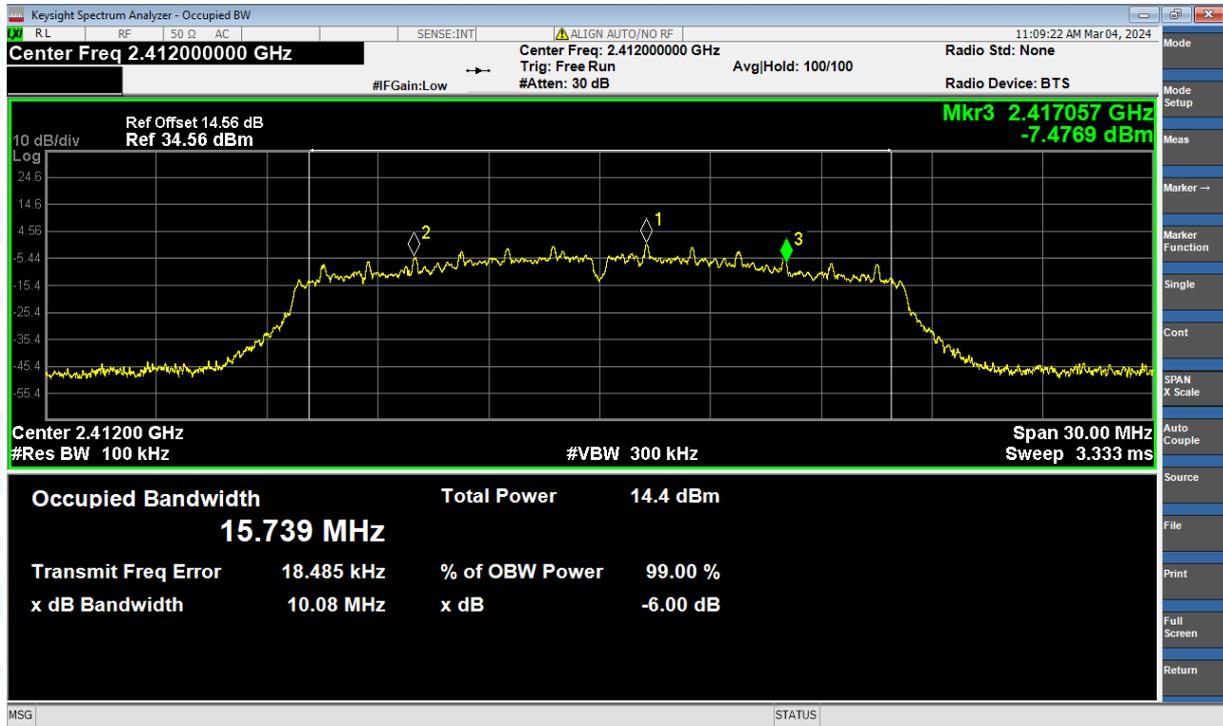
-6dB Bandwidth NVNT b 2437MHz Ant1



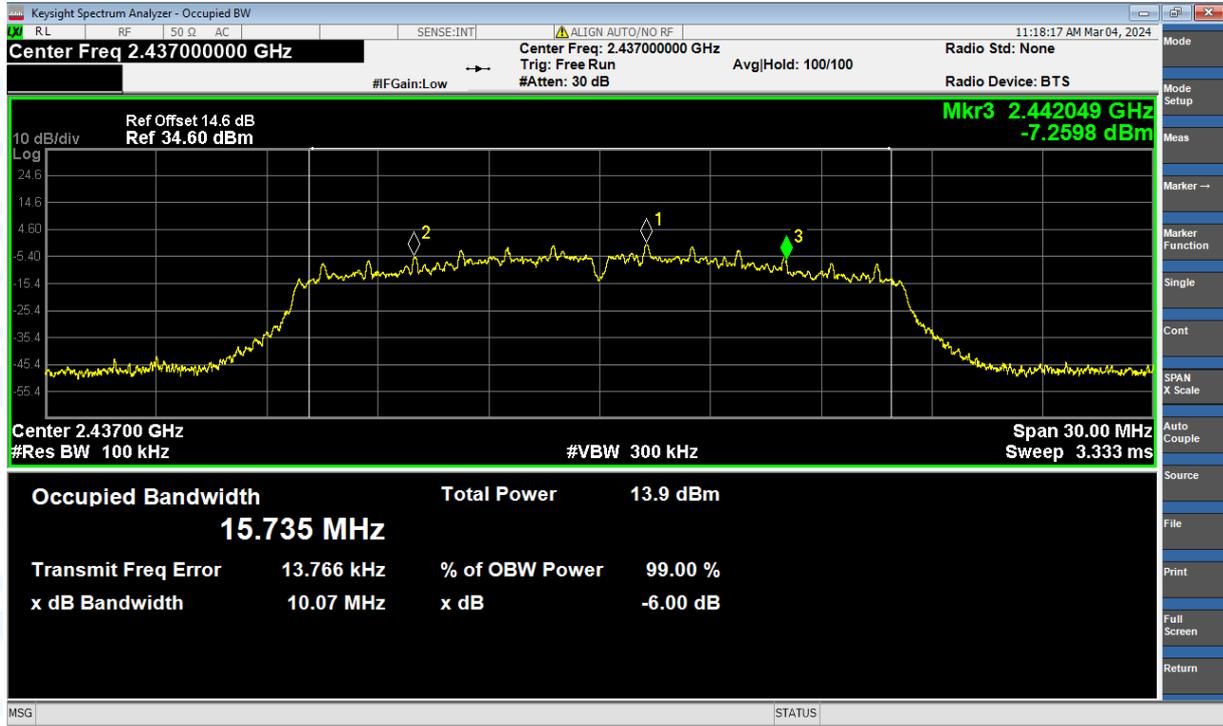
-6dB Bandwidth NVNT b 2462MHz Ant1



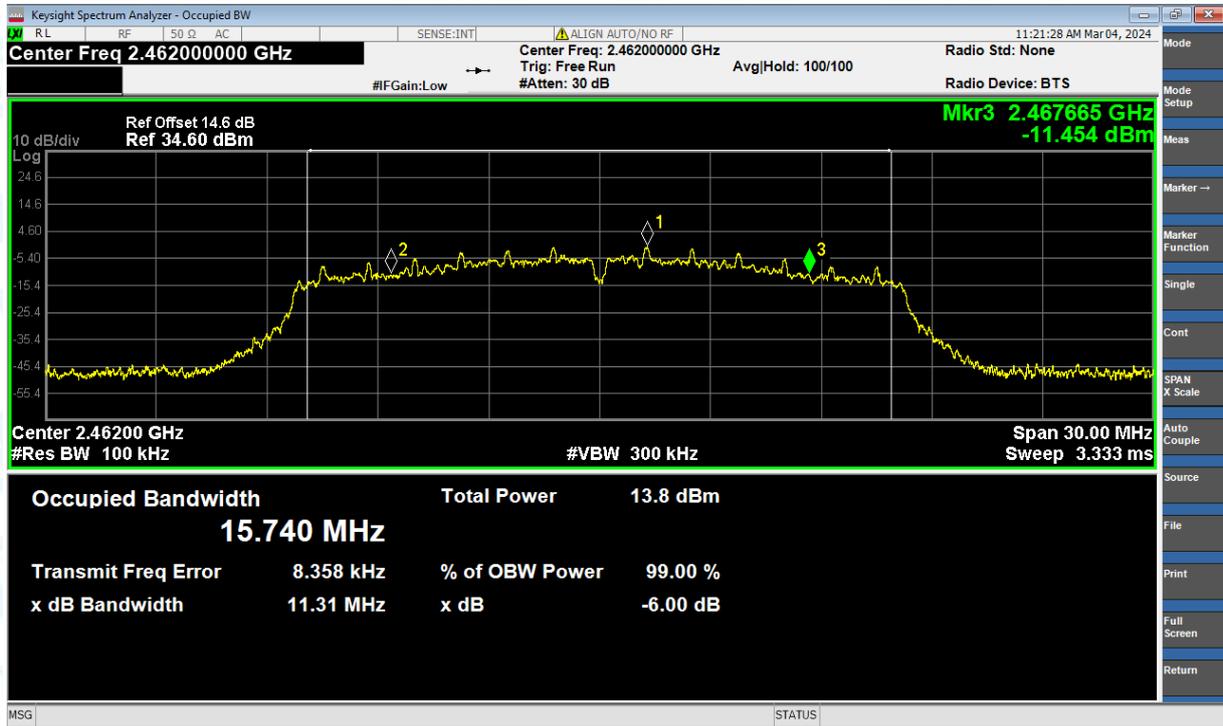
-6dB Bandwidth NVNT g 2412MHz Ant1



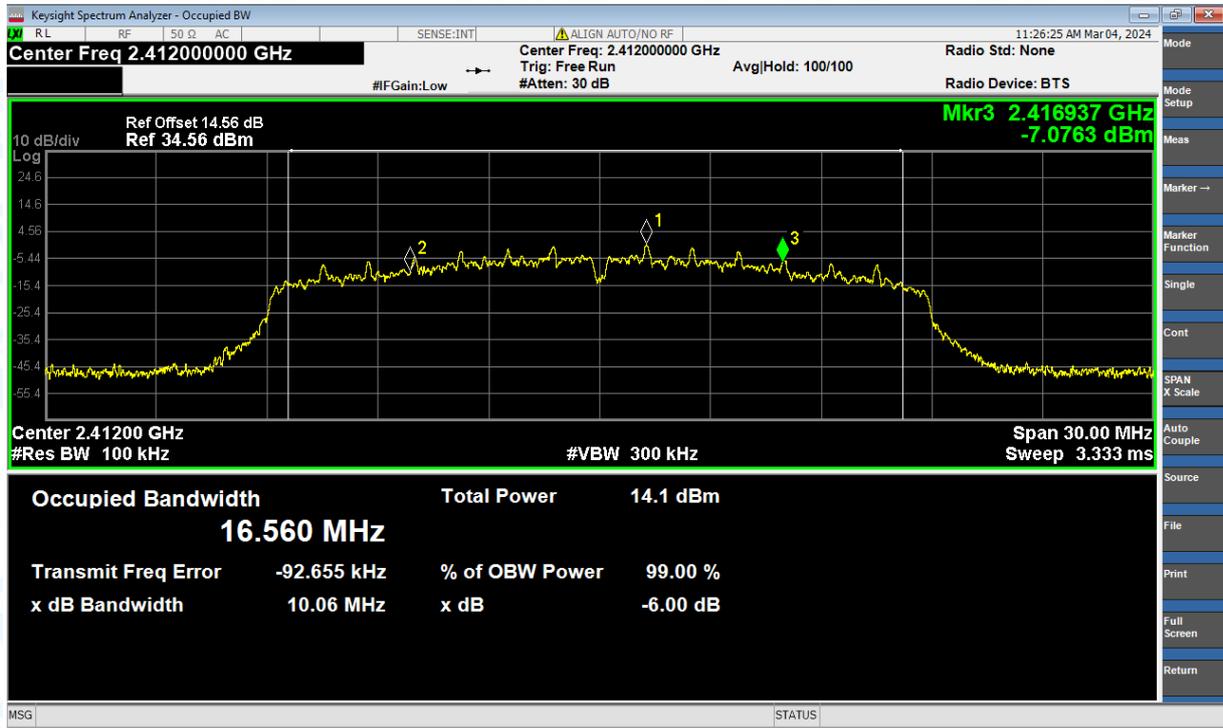
-6dB Bandwidth NVNT g 2437MHz Ant1



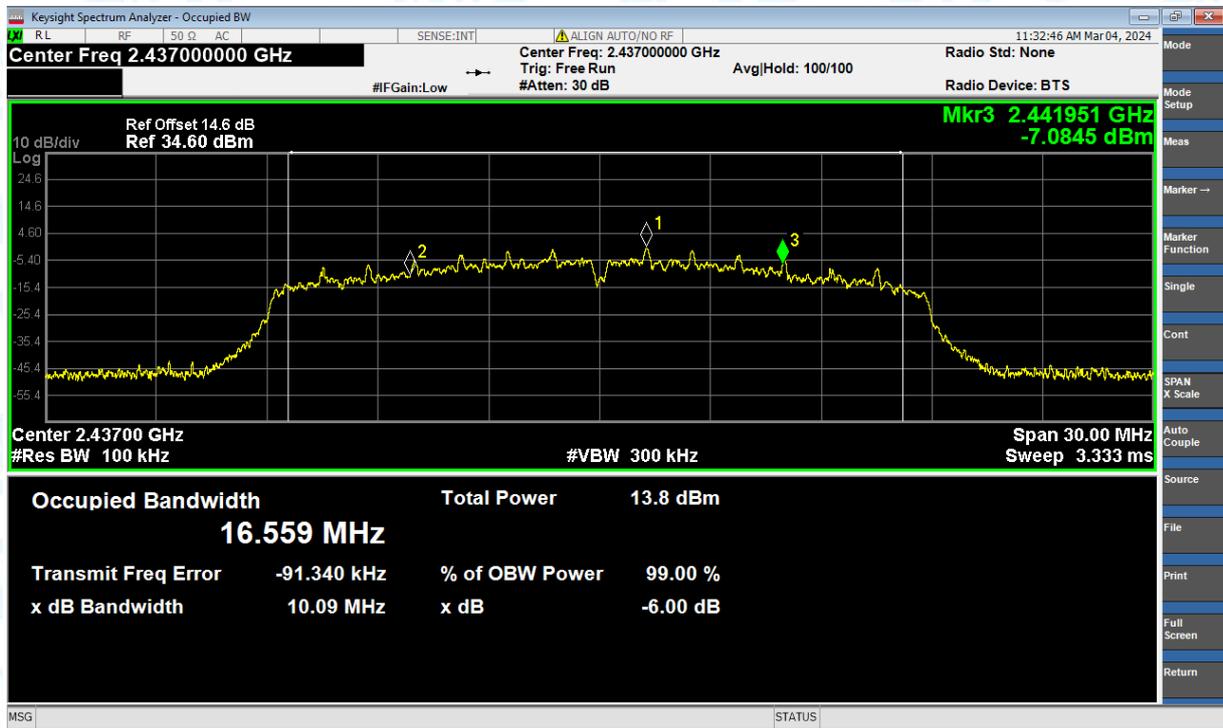
-6dB Bandwidth NVNT g 2462MHz Ant1



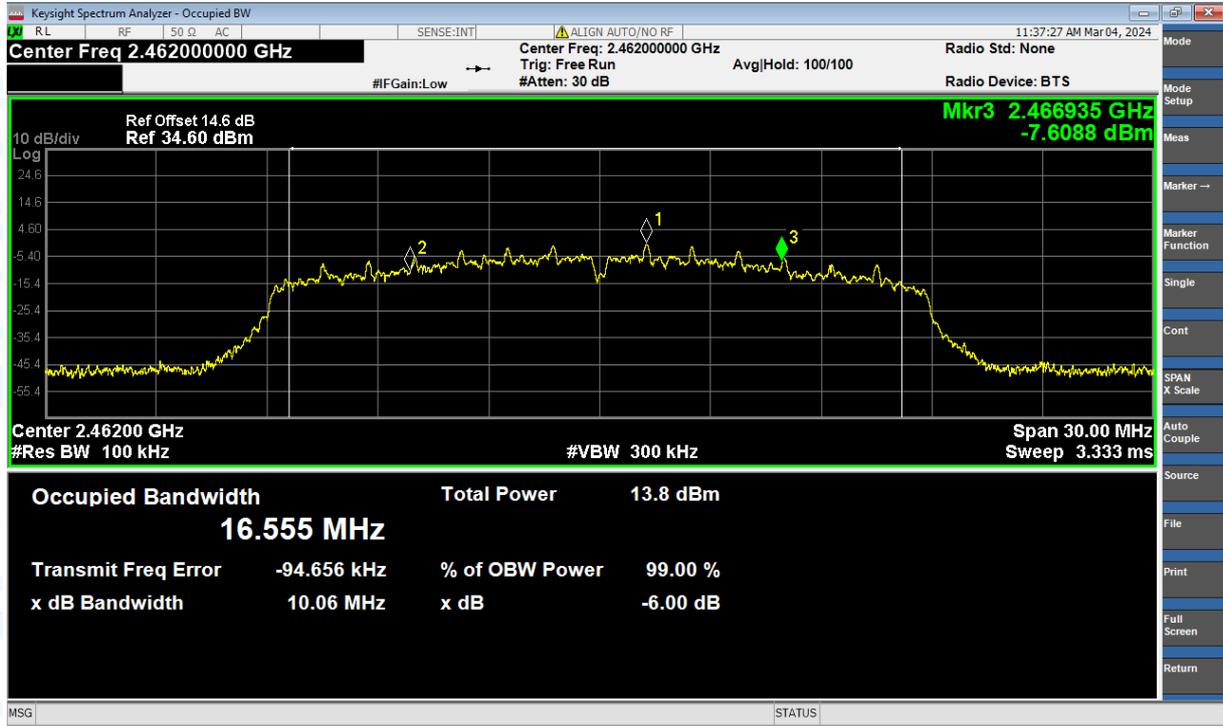
-6dB Bandwidth NVNT n(HT20) 2412MHz Ant1



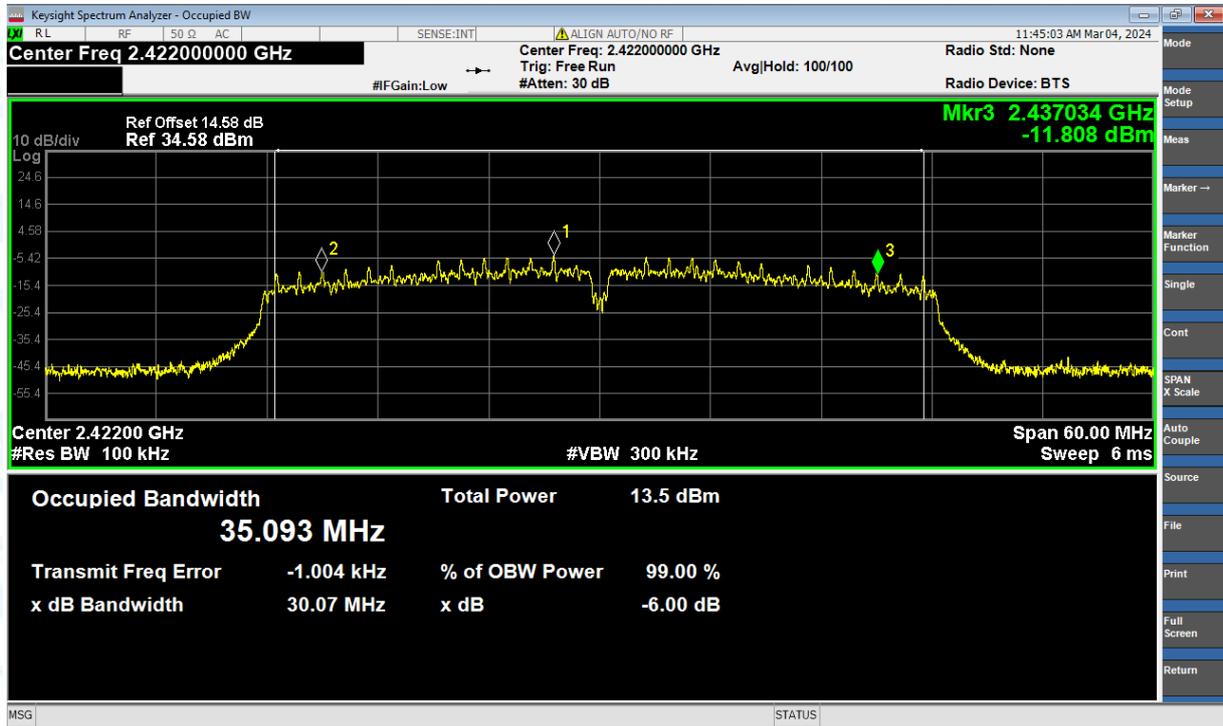
-6dB Bandwidth NVNT n(HT20) 2437MHz Ant1



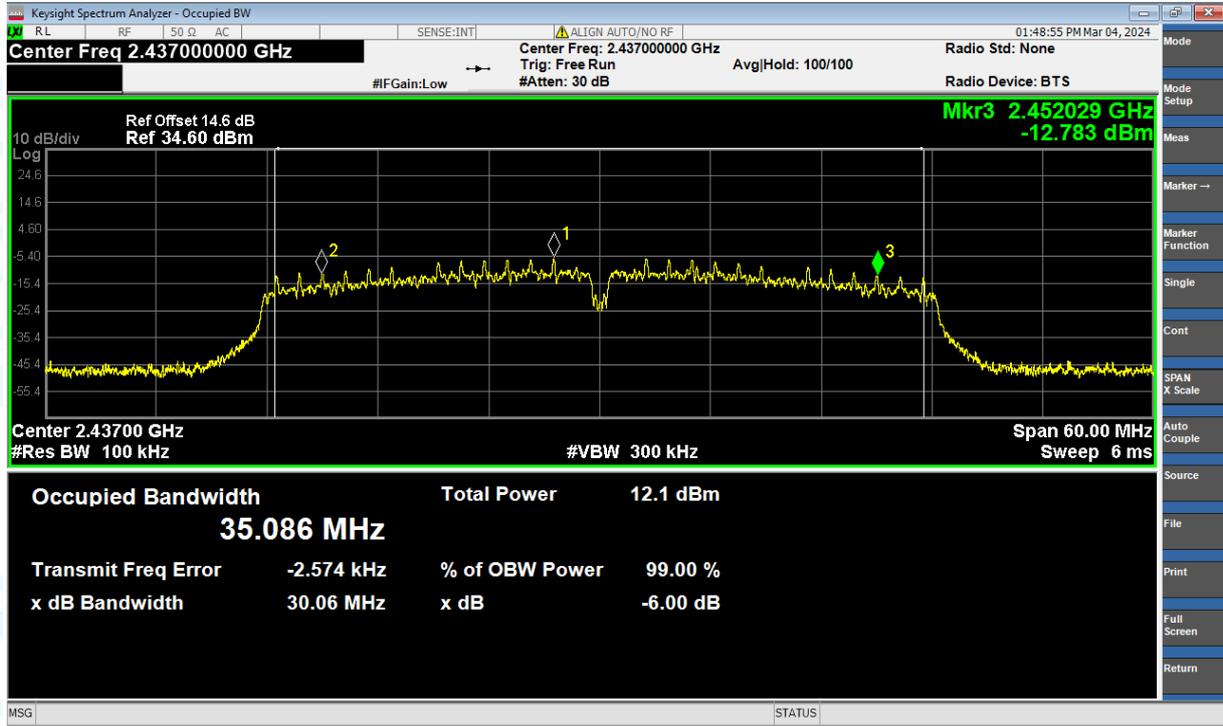
-6dB Bandwidth NVNT n(HT20) 2462MHz Ant1



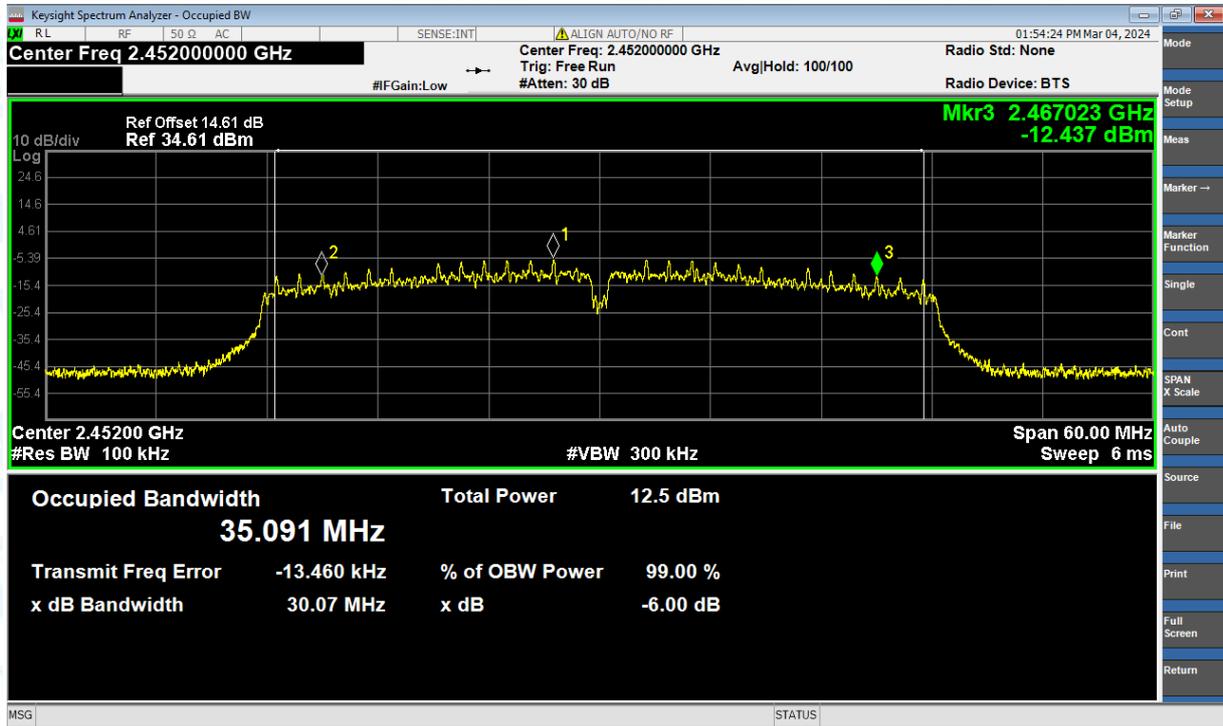
-6dB Bandwidth NVNT n(HT40) 2422MHz Ant1



-6dB Bandwidth NVNT n(HT40) 2437MHz Ant1



-6dB Bandwidth NVNT n(HT40) 2452MHz Ant1

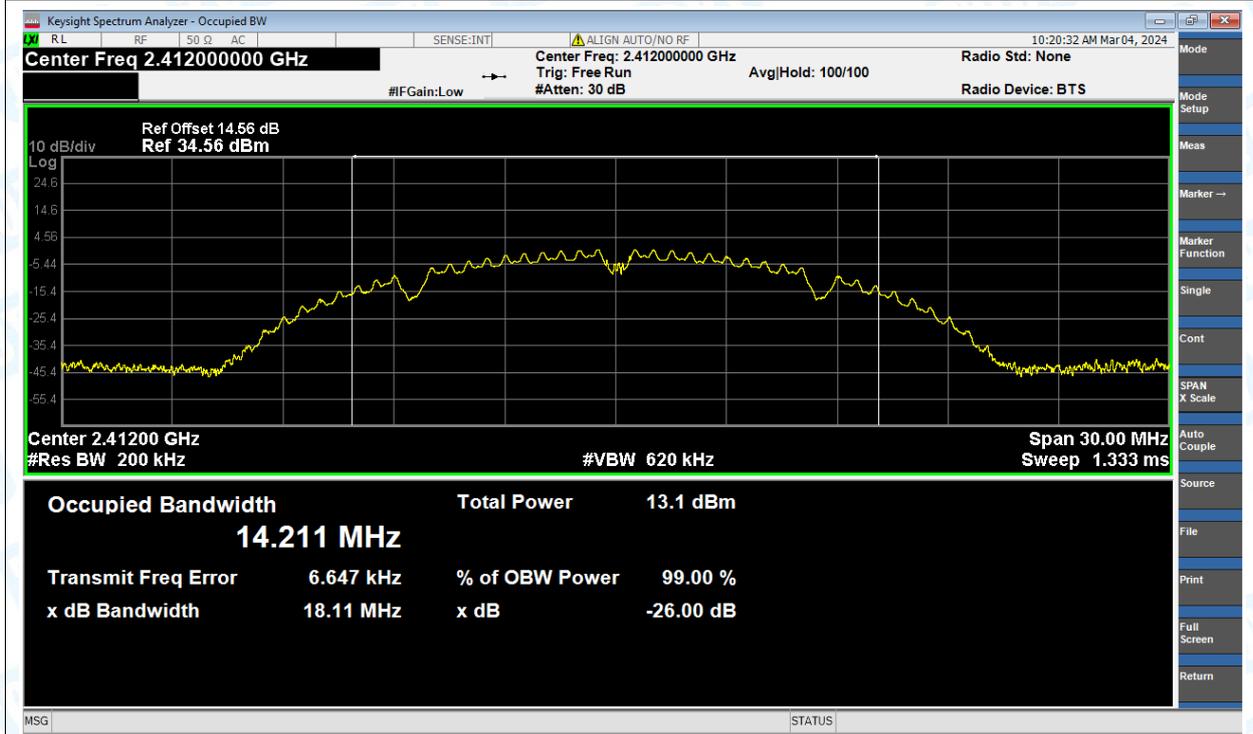


## 4. Occupied Channel Bandwidth

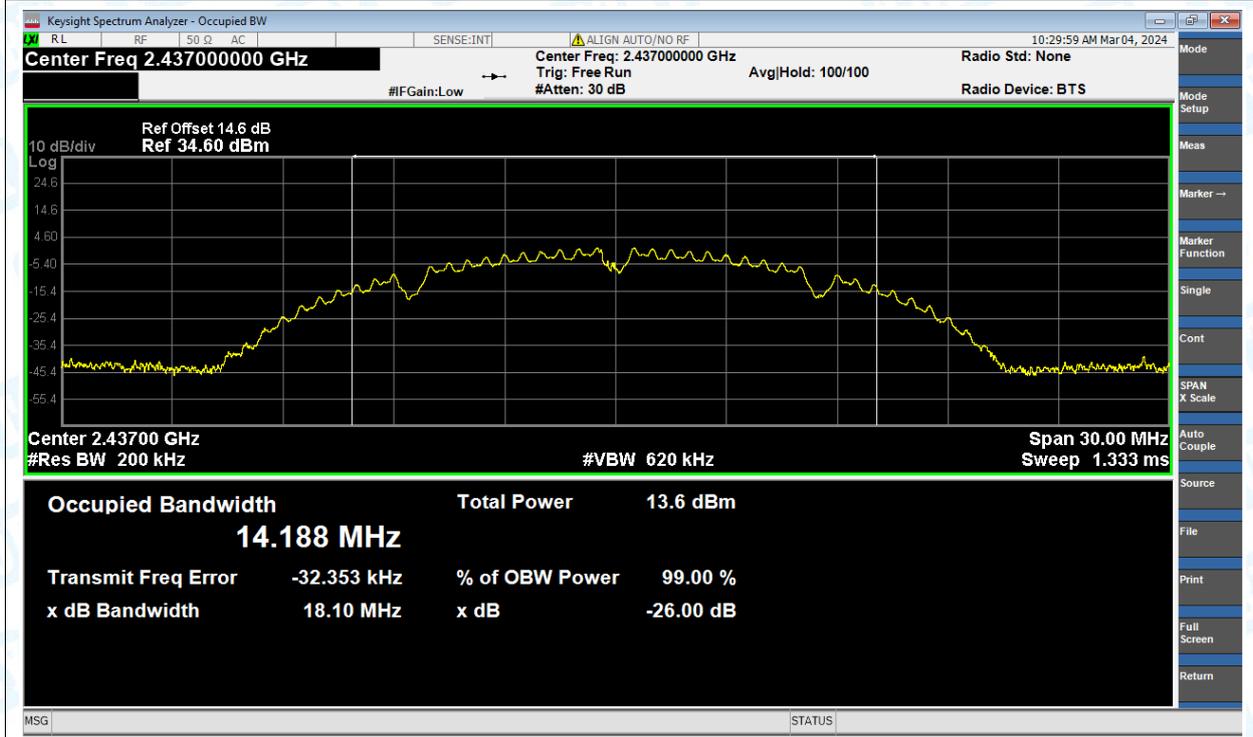
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	b	2412	Ant1	14.211
NVNT	b	2437	Ant1	14.188
NVNT	b	2462	Ant1	14.11
NVNT	g	2412	Ant1	15.78
NVNT	g	2437	Ant1	15.813
NVNT	g	2462	Ant1	15.801
NVNT	n(HT20)	2412	Ant1	16.458
NVNT	n(HT20)	2437	Ant1	16.478
NVNT	n(HT20)	2462	Ant1	16.498
NVNT	n(HT40)	2422	Ant1	35.345
NVNT	n(HT40)	2437	Ant1	35.366
NVNT	n(HT40)	2452	Ant1	35.372

Test Graphs

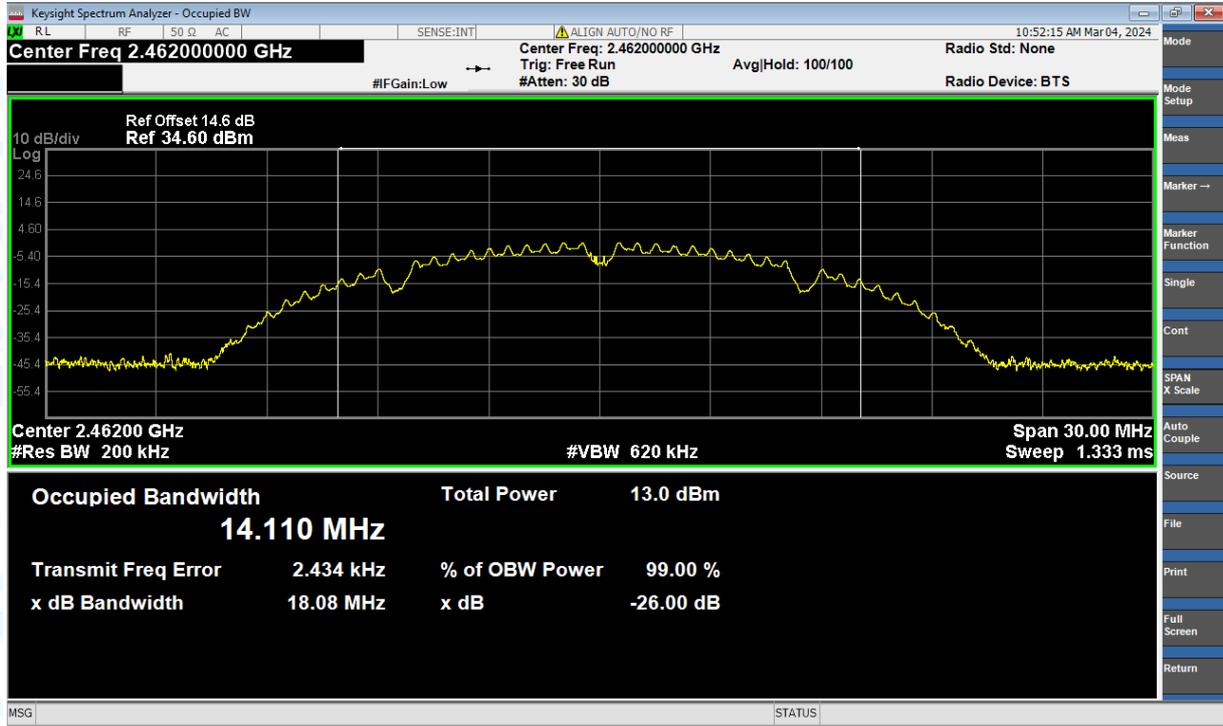
OBW NVNT b 2412MHz Ant1



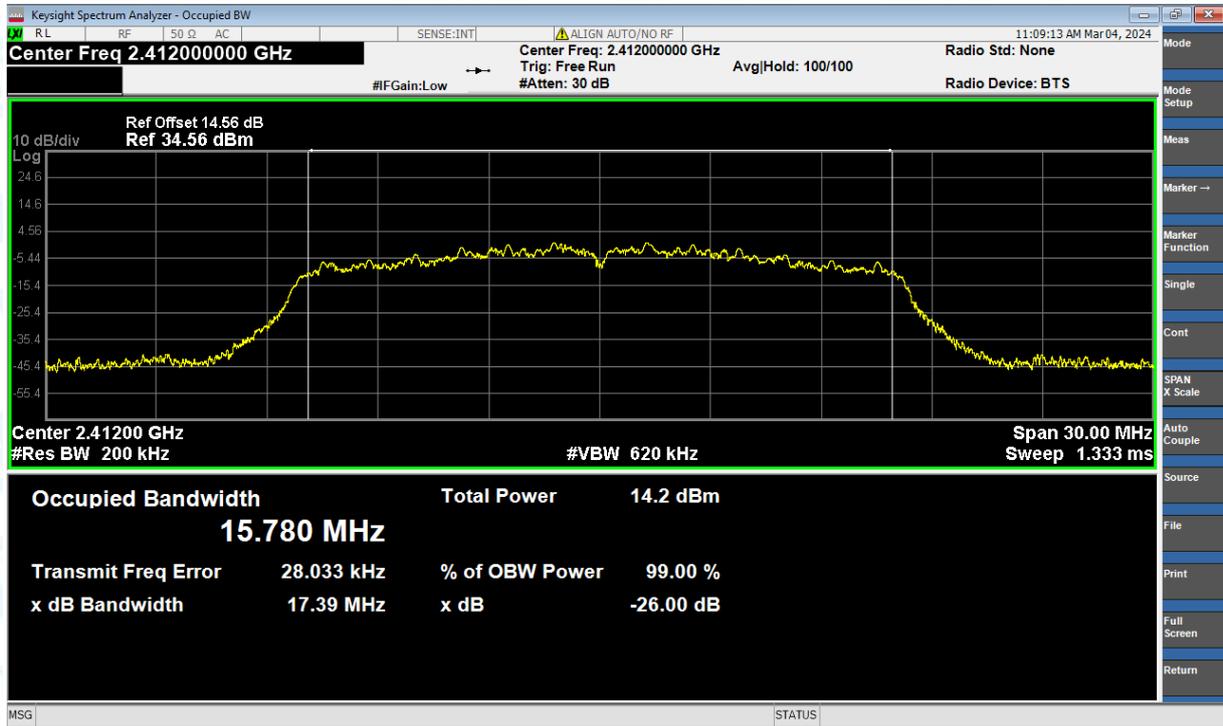
OBW NVNT b 2437MHz Ant1



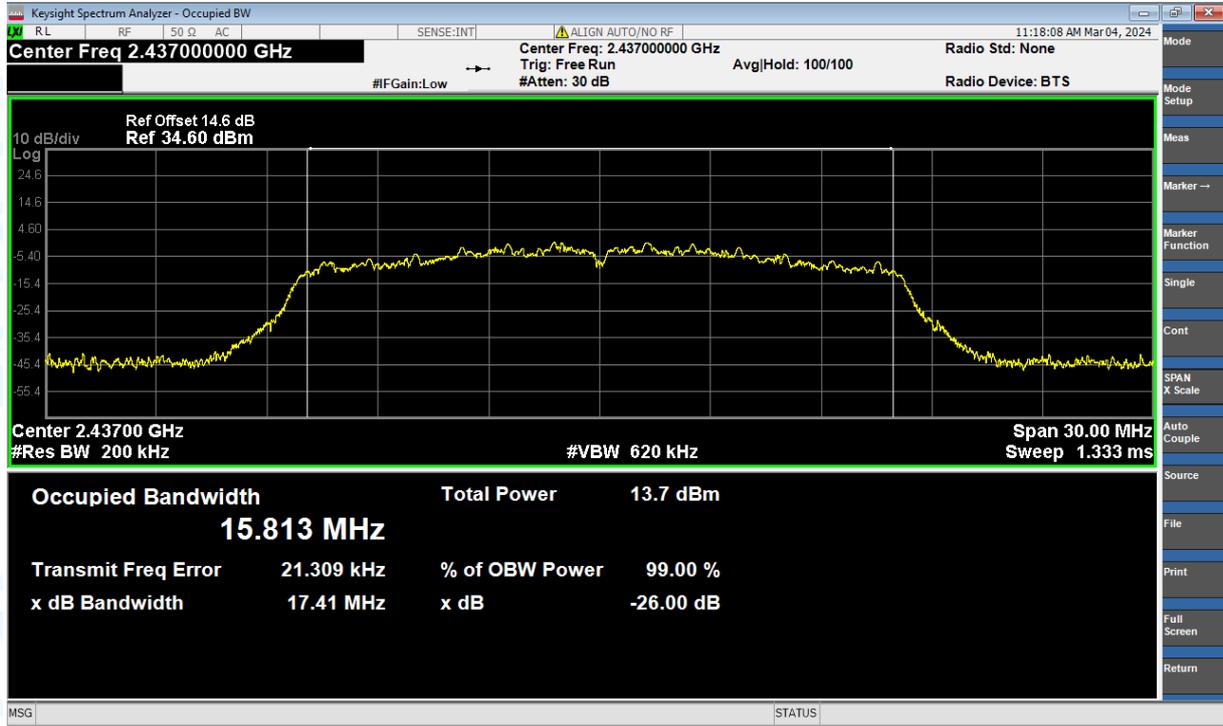
OBW NVNT b 2462MHz Ant1



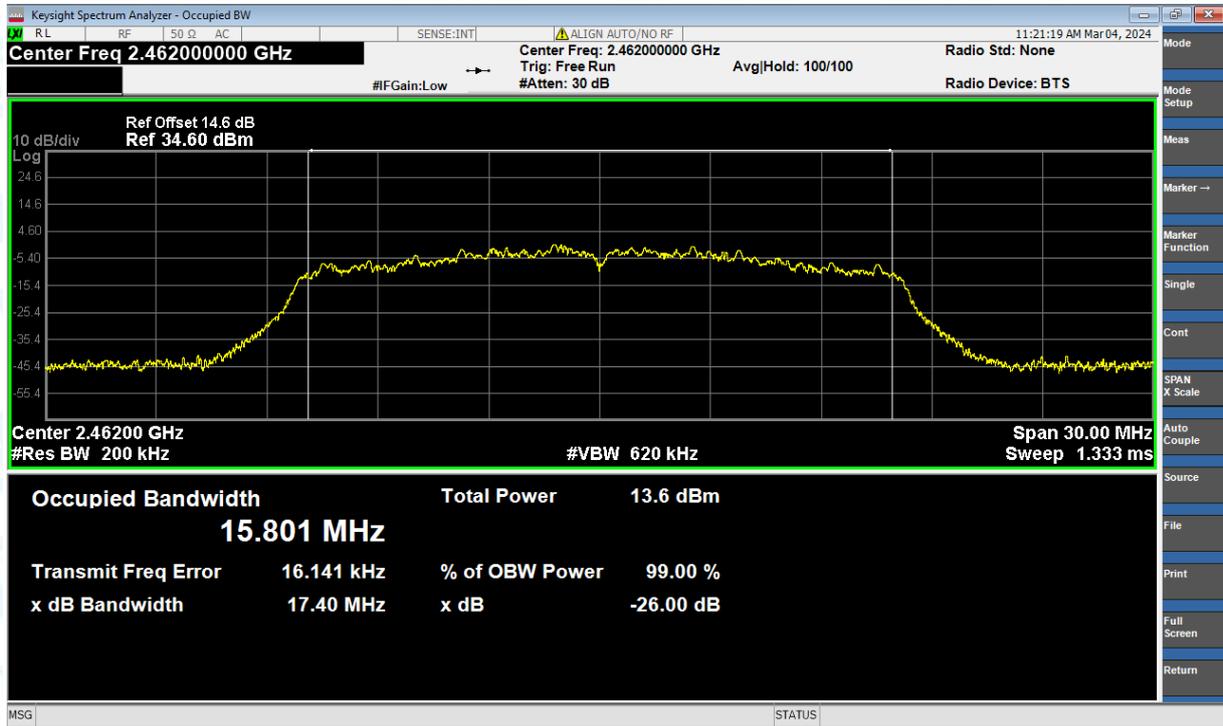
OBW NVNT g 2412MHz Ant1



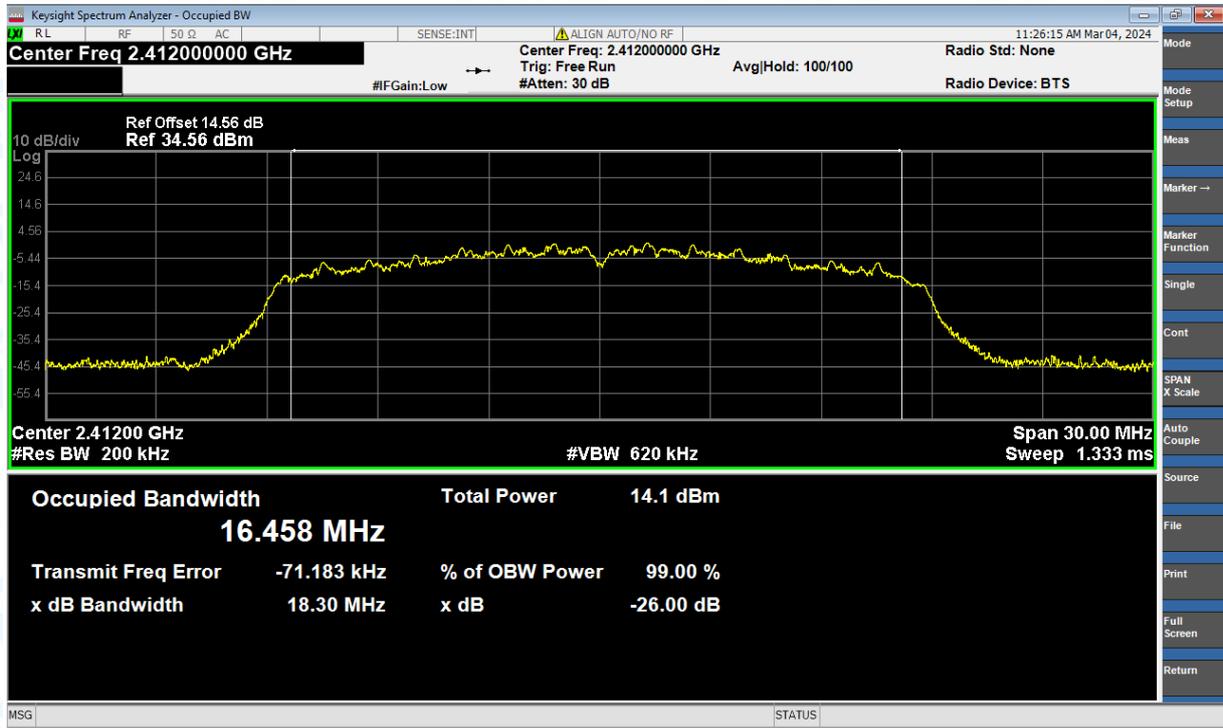
OBW NVNT g 2437MHz Ant1



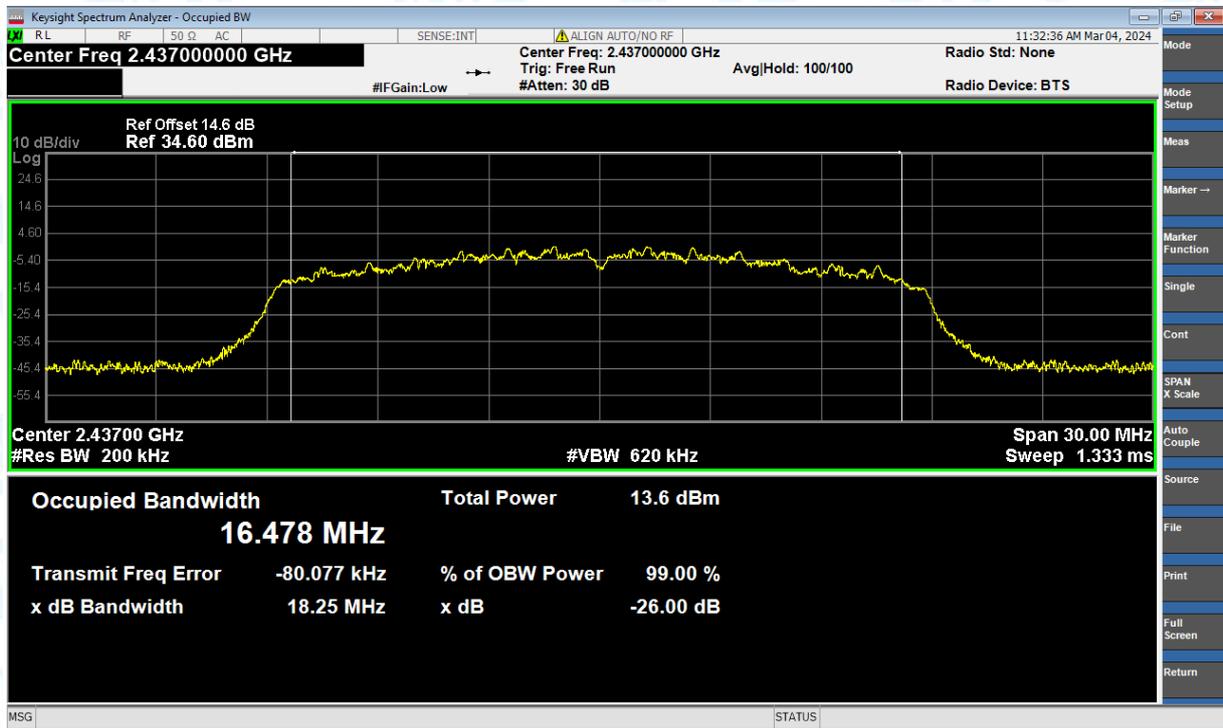
OBW NVNT g 2462MHz Ant1



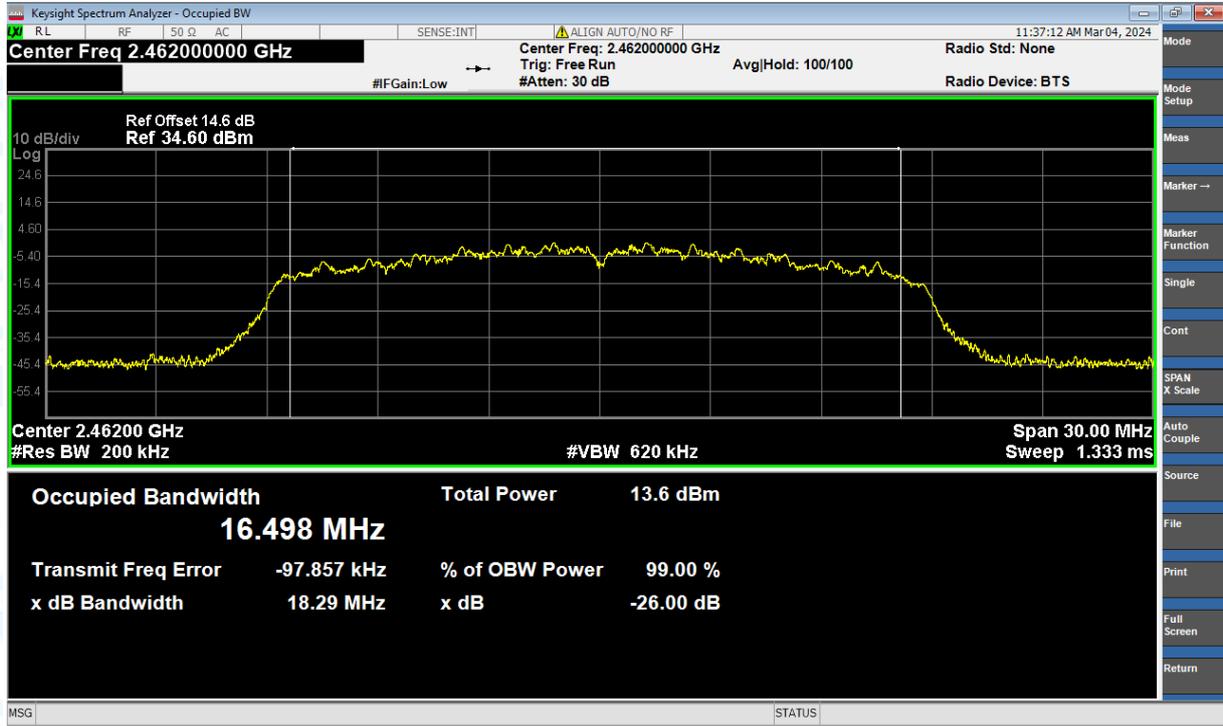
OBW NVNT n(HT20) 2412MHz Ant1



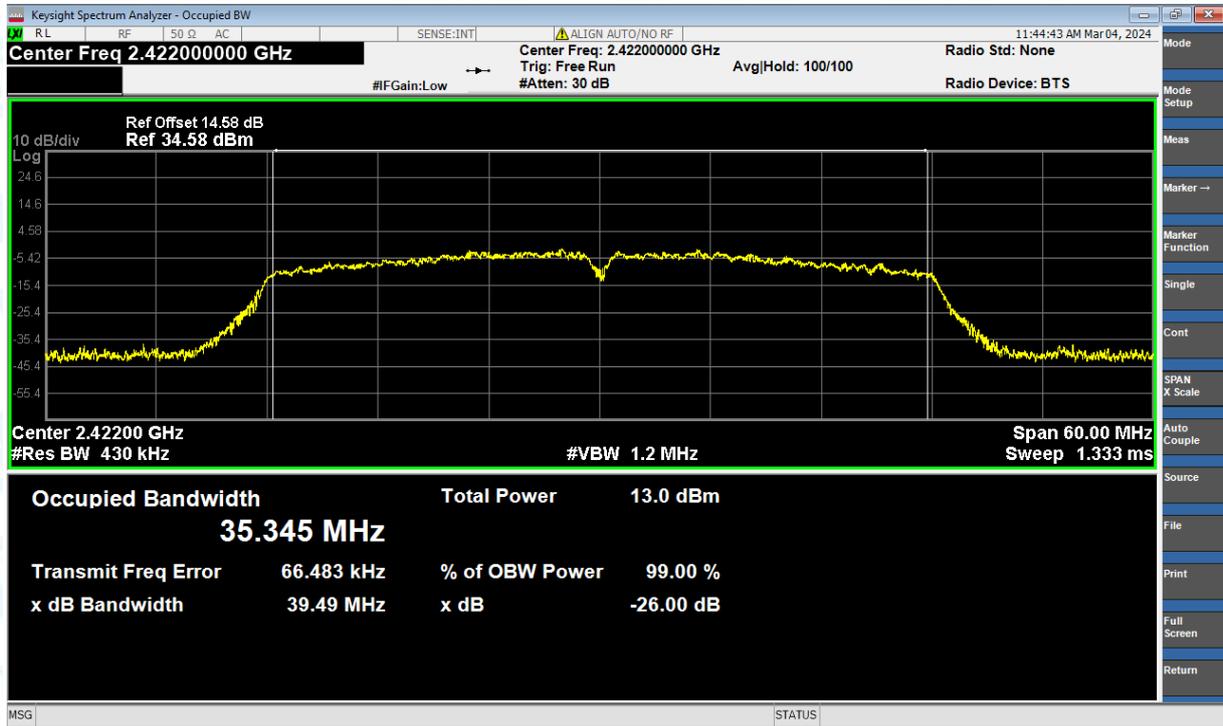
OBW NVNT n(HT20) 2437MHz Ant1



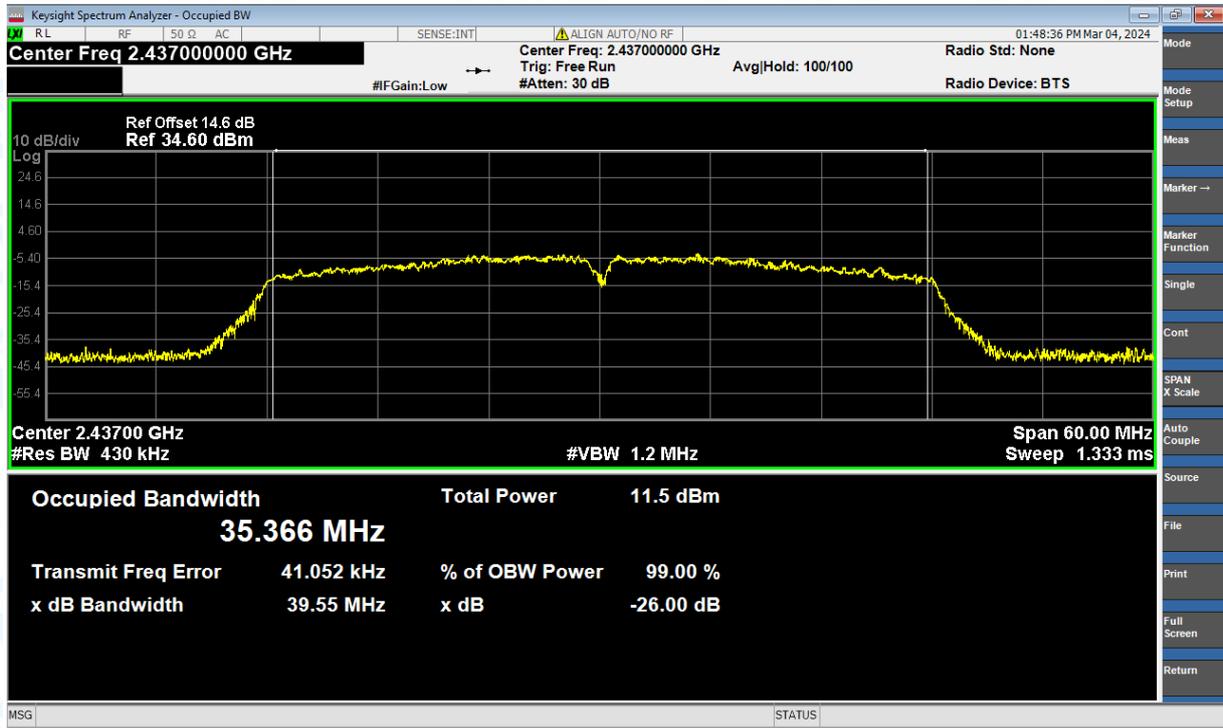
OBW NVNT n(HT20) 2462MHz Ant1



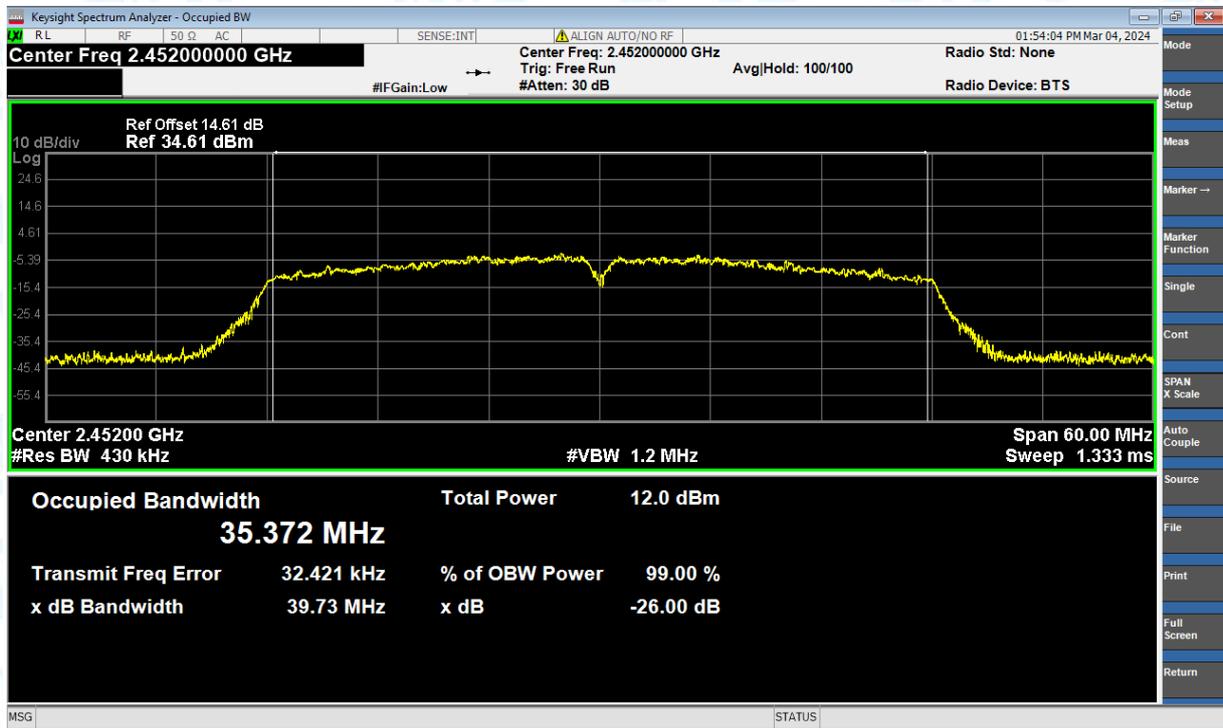
OBW NVNT n(HT40) 2422MHz Ant1



OBW NVNT n(HT40) 2437MHz Ant1



OBW NVNT n(HT40) 2452MHz Ant1



## 5. Maximum Power Spectral Density Level

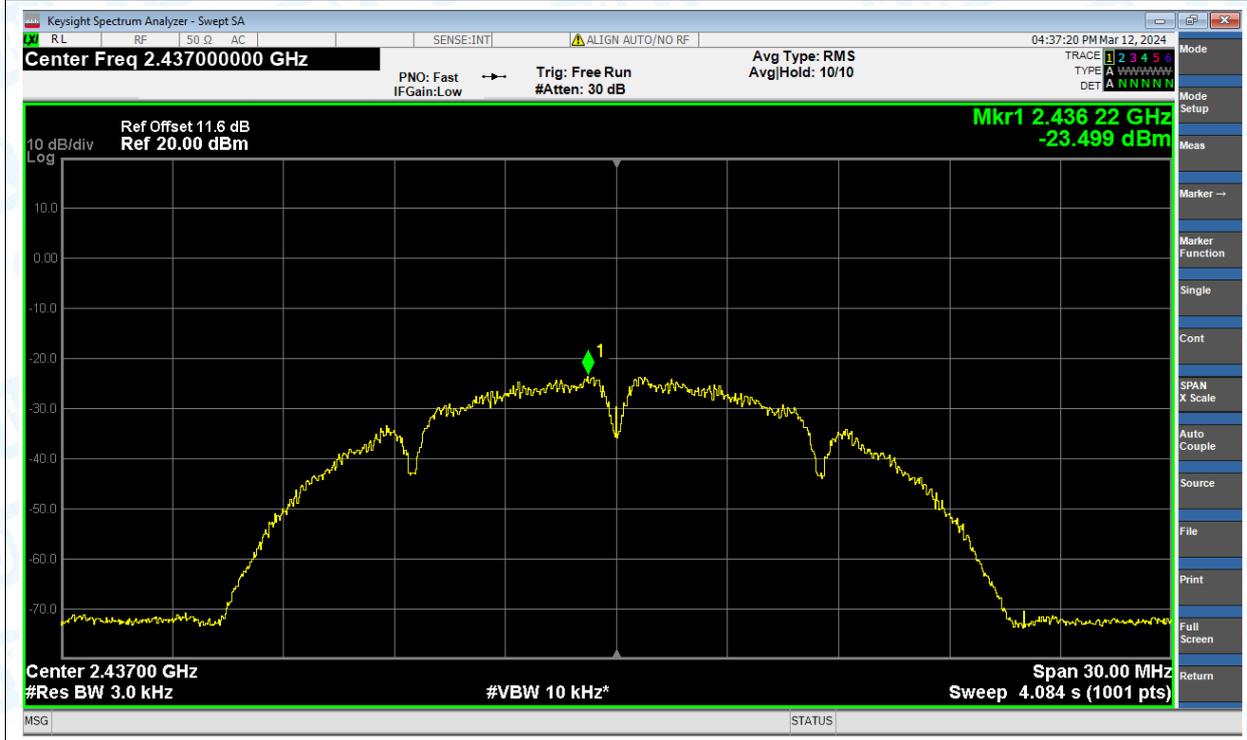
Condition	Mode	Frequency (MHz)	Antenna	Max PSD (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	Ant1	-22.883	8	Pass
NVNT	b	2437	Ant1	-23.499	8	Pass
NVNT	b	2462	Ant1	-22.929	8	Pass
NVNT	g	2412	Ant1	-22.022	8	Pass
NVNT	g	2437	Ant1	-22.285	8	Pass
NVNT	g	2462	Ant1	-22.292	8	Pass
NVNT	n(HT20)	2412	Ant1	-22.294	8	Pass
NVNT	n(HT20)	2437	Ant1	-22.945	8	Pass
NVNT	n(HT20)	2462	Ant1	-22.888	8	Pass
NVNT	n(HT40)	2422	Ant1	-26.521	8	Pass
NVNT	n(HT40)	2437	Ant1	-25.647	8	Pass
NVNT	n(HT40)	2452	Ant1	-26.172	8	Pass

Test Graphs

PSD NVNT b 2412MHz Ant1



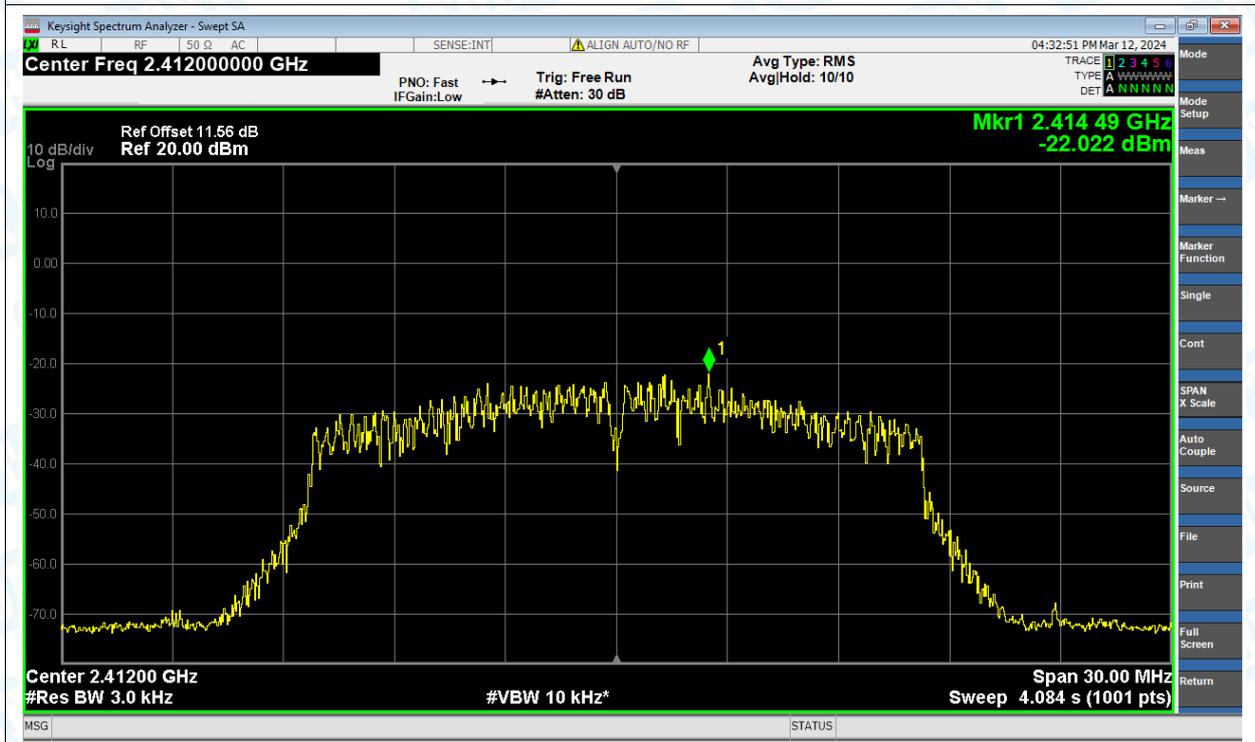
PSD NVNT b 2437MHz Ant1



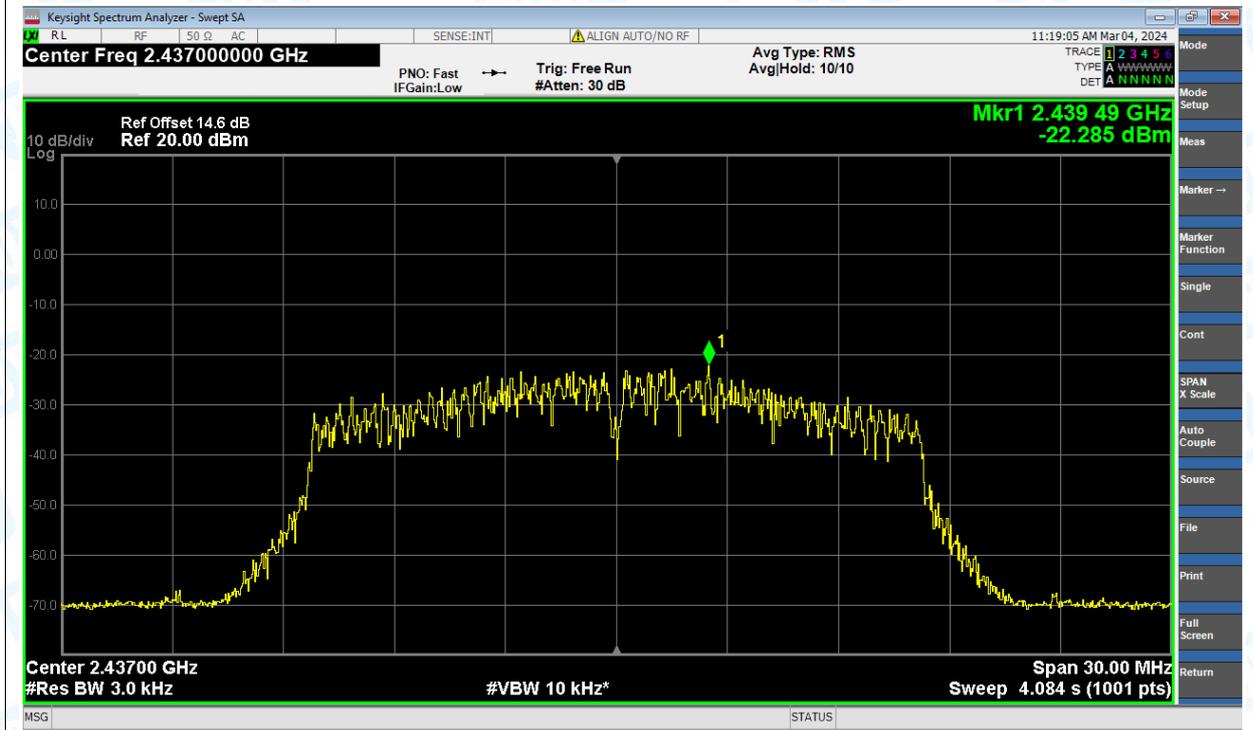
PSD NVNT b 2462MHz Ant1



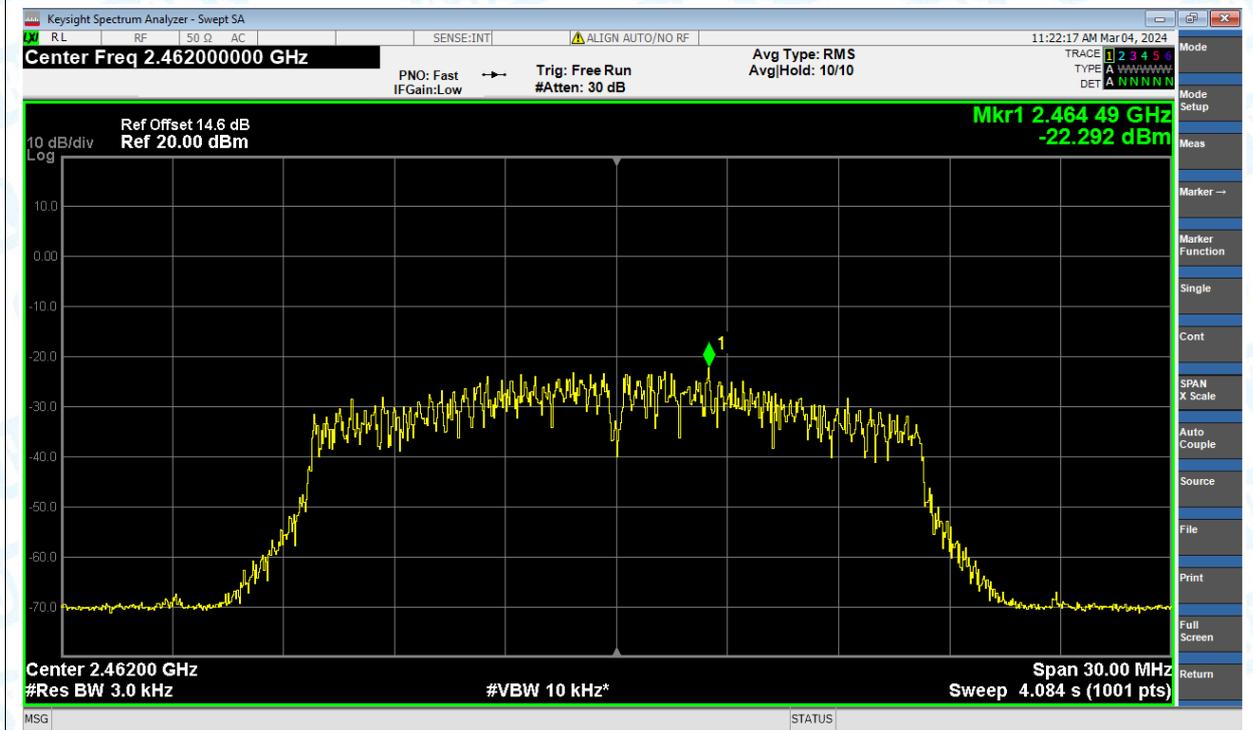
PSD NVNT g 2412MHz Ant1

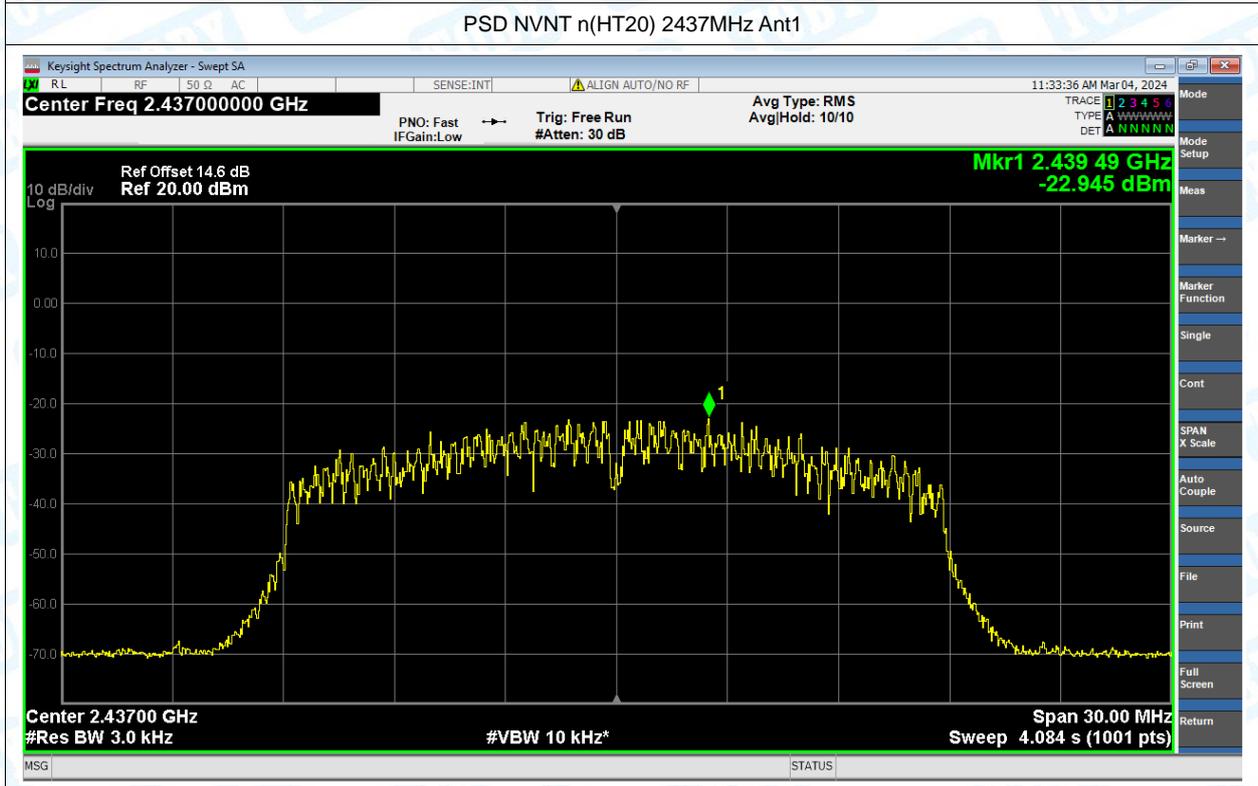
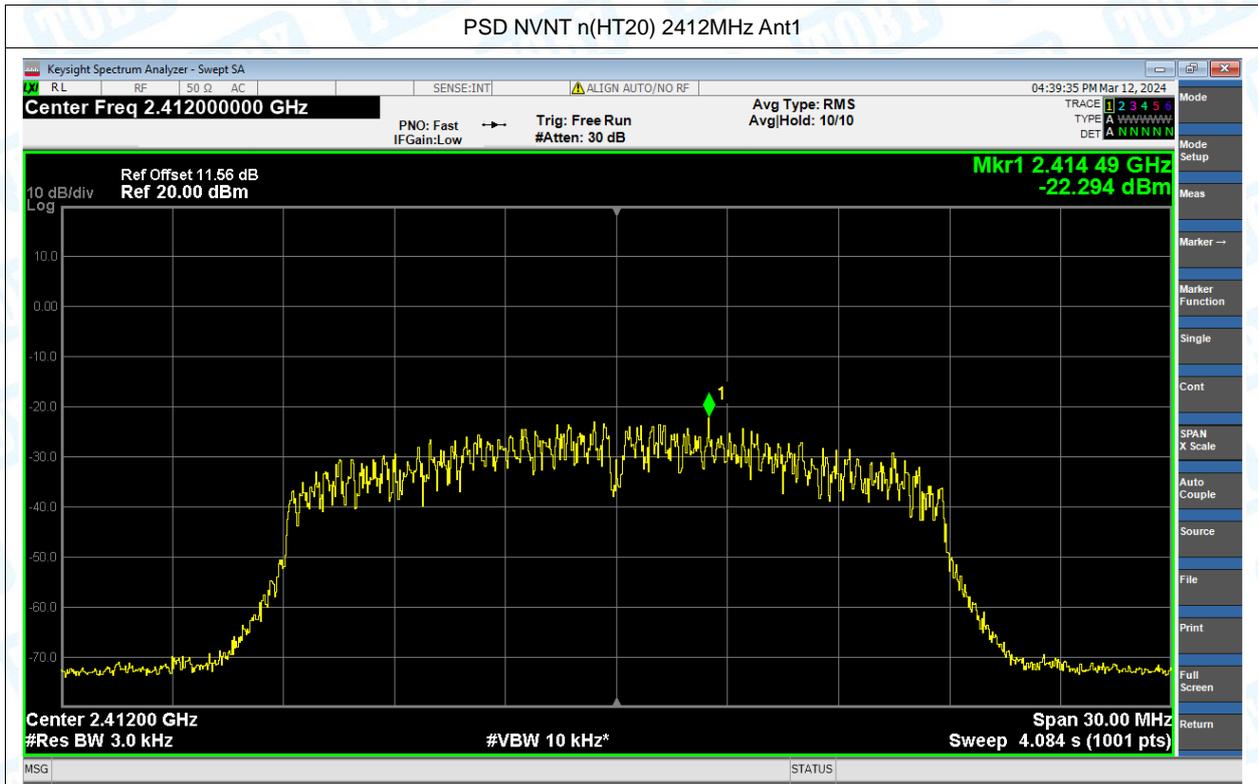


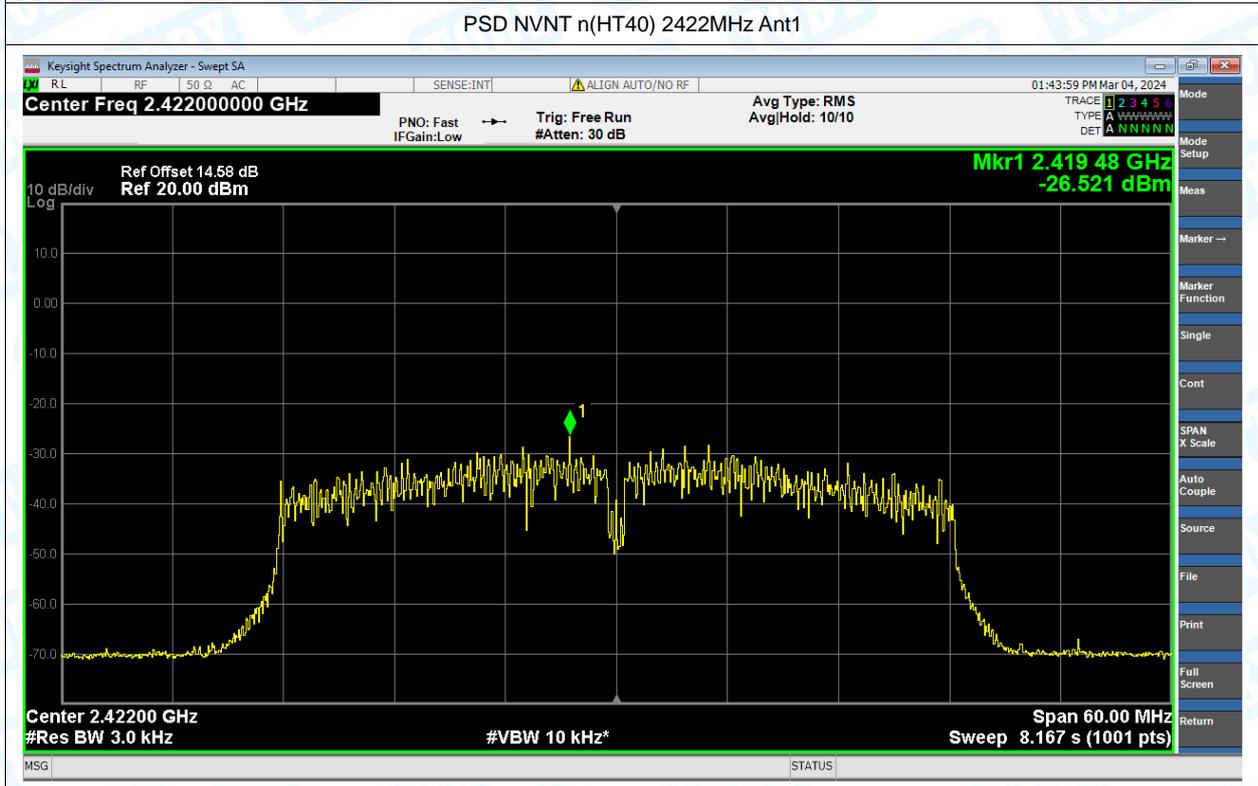
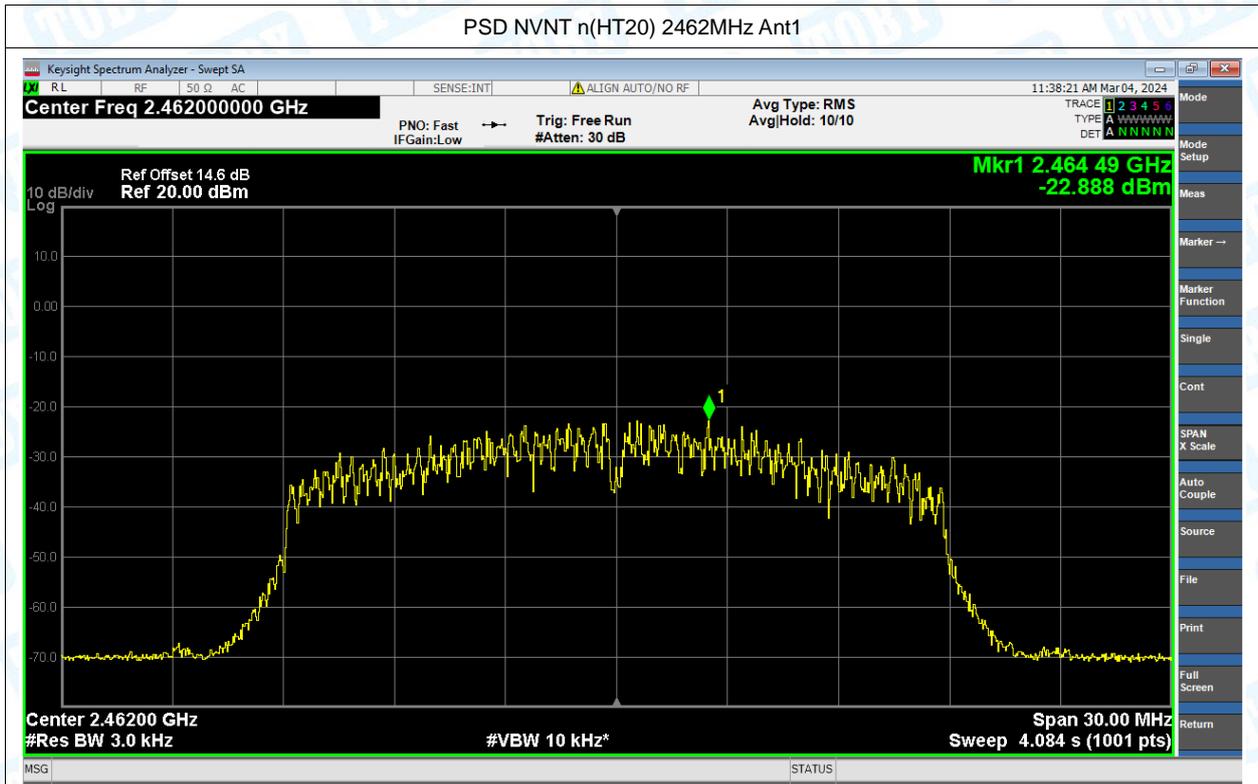
PSD NVNT g 2437MHz Ant1



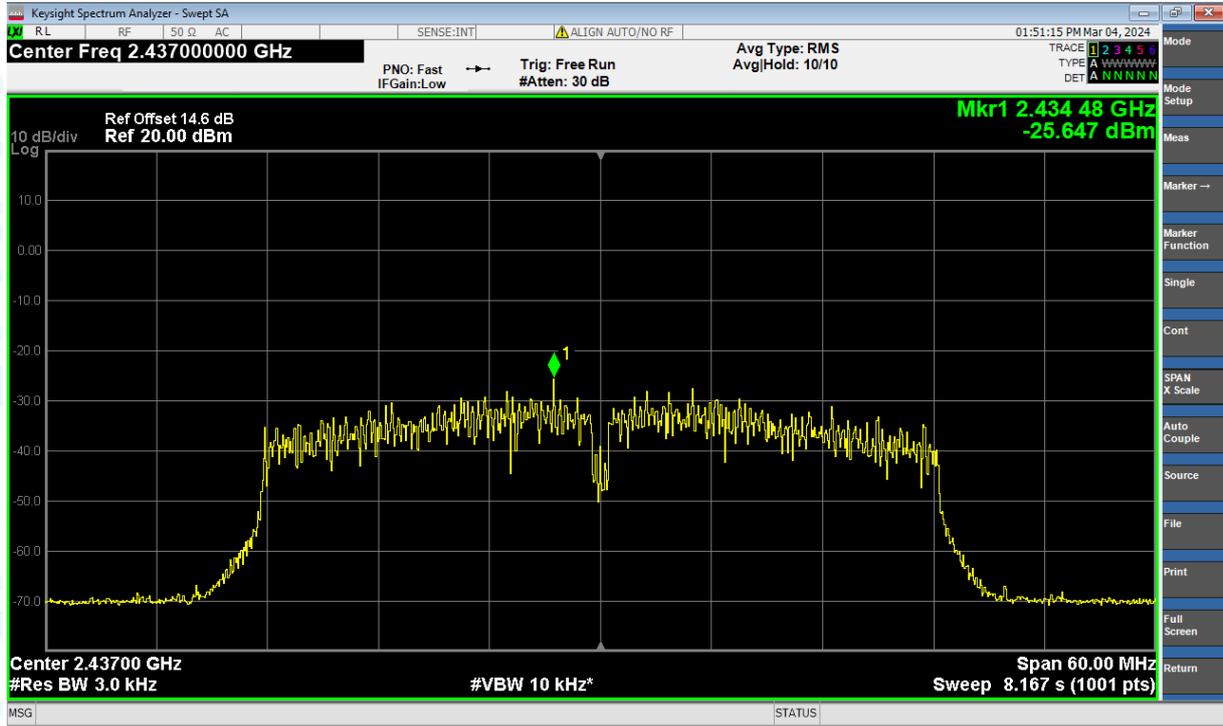
PSD NVNT g 2462MHz Ant1



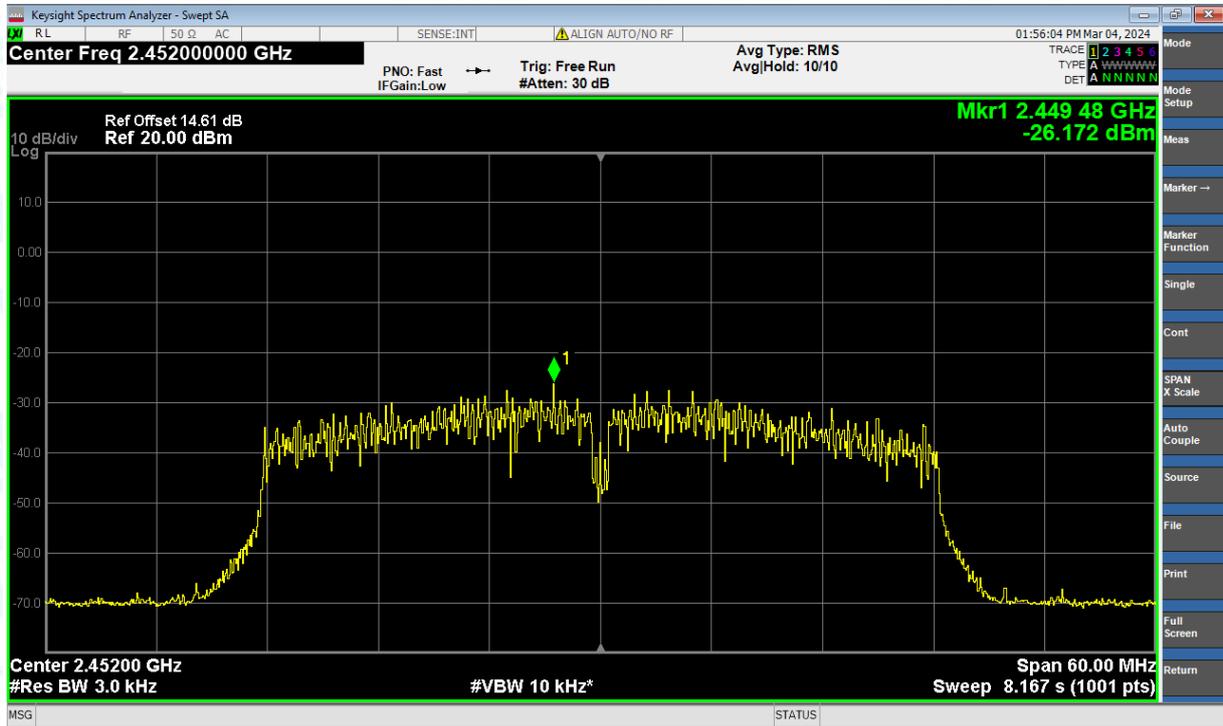




PSD NVNT n(HT40) 2437MHz Ant1



PSD NVNT n(HT40) 2452MHz Ant1



## 6. Band Edge

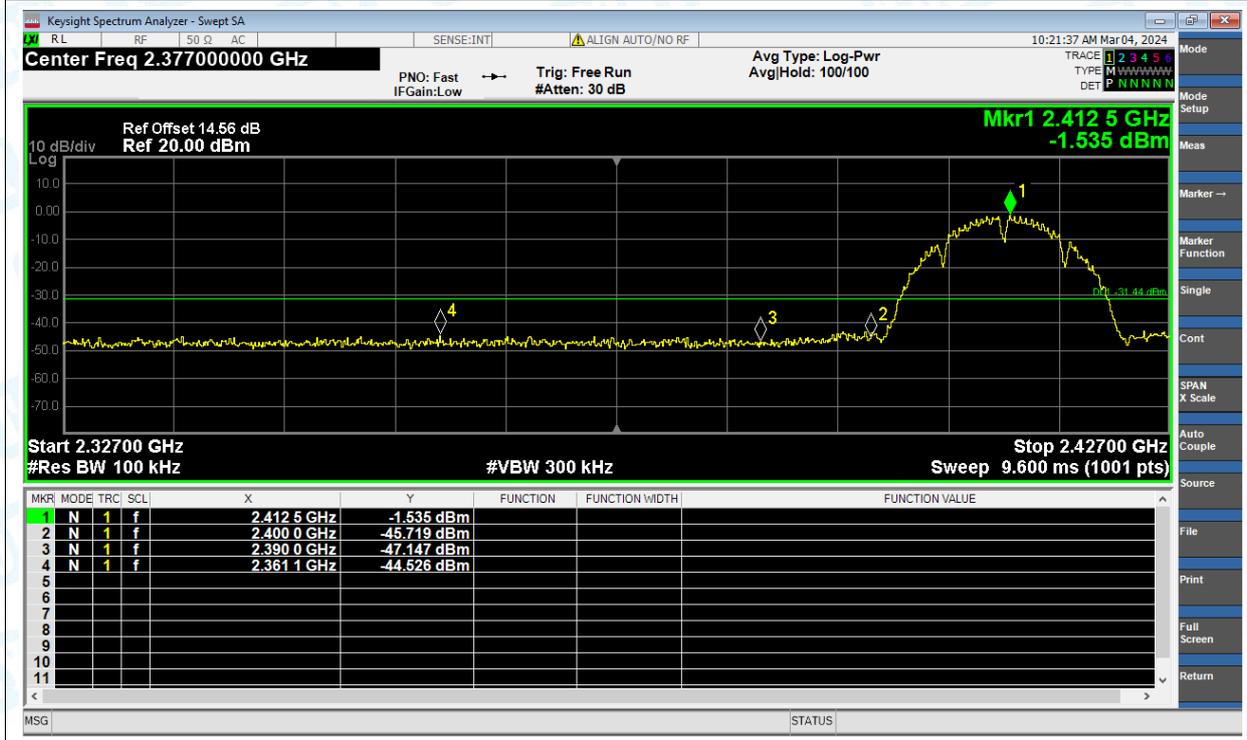
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-43.09	-30	Pass
NVNT	b	2462	Ant1	-42.93	-30	Pass
NVNT	g	2412	Ant1	-43.87	-30	Pass
NVNT	g	2462	Ant1	-43.52	-30	Pass
NVNT	n(HT20)	2412	Ant1	-43.63	-30	Pass
NVNT	n(HT20)	2462	Ant1	-43.55	-30	Pass
NVNT	n(HT40)	2422	Ant1	-37.83	-30	Pass
NVNT	n(HT40)	2452	Ant1	-39.16	-30	Pass

Test Graphs

Band Edge NVNT b 2412MHz Ant1 Ref



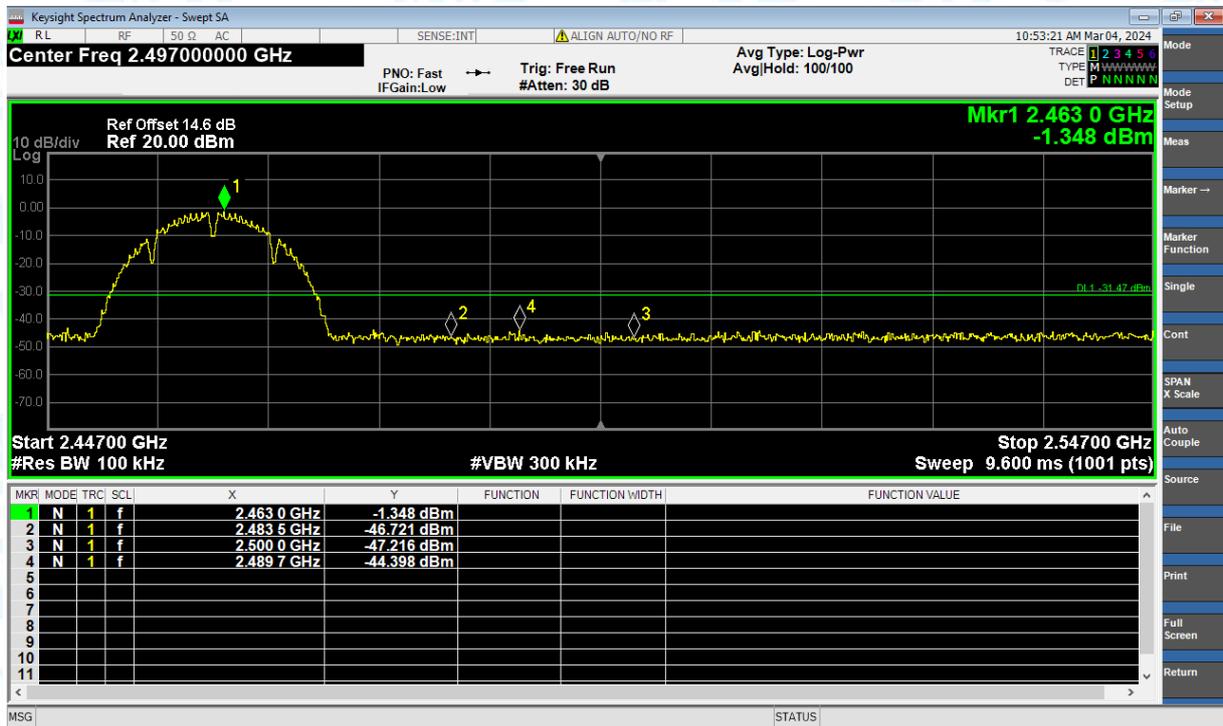
Band Edge NVNT b 2412MHz Ant1 Emission



Band Edge NVNT b 2462MHz Ant1 Ref



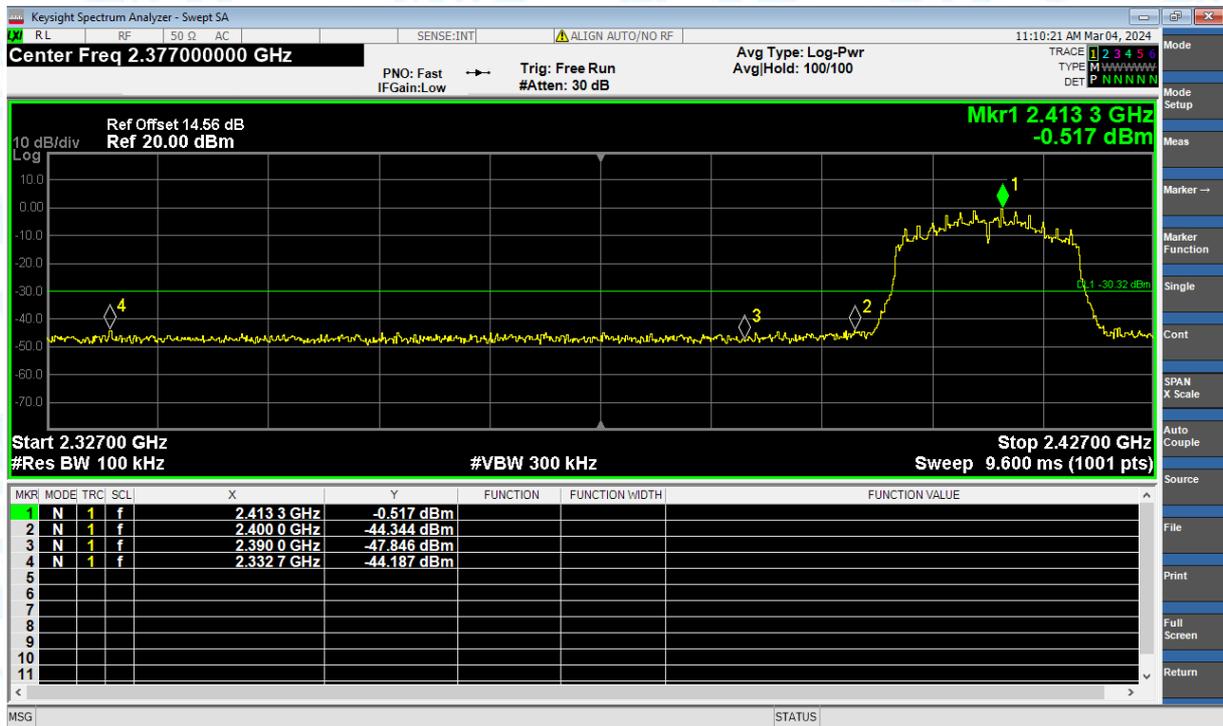
Band Edge NVNT b 2462MHz Ant1 Emission



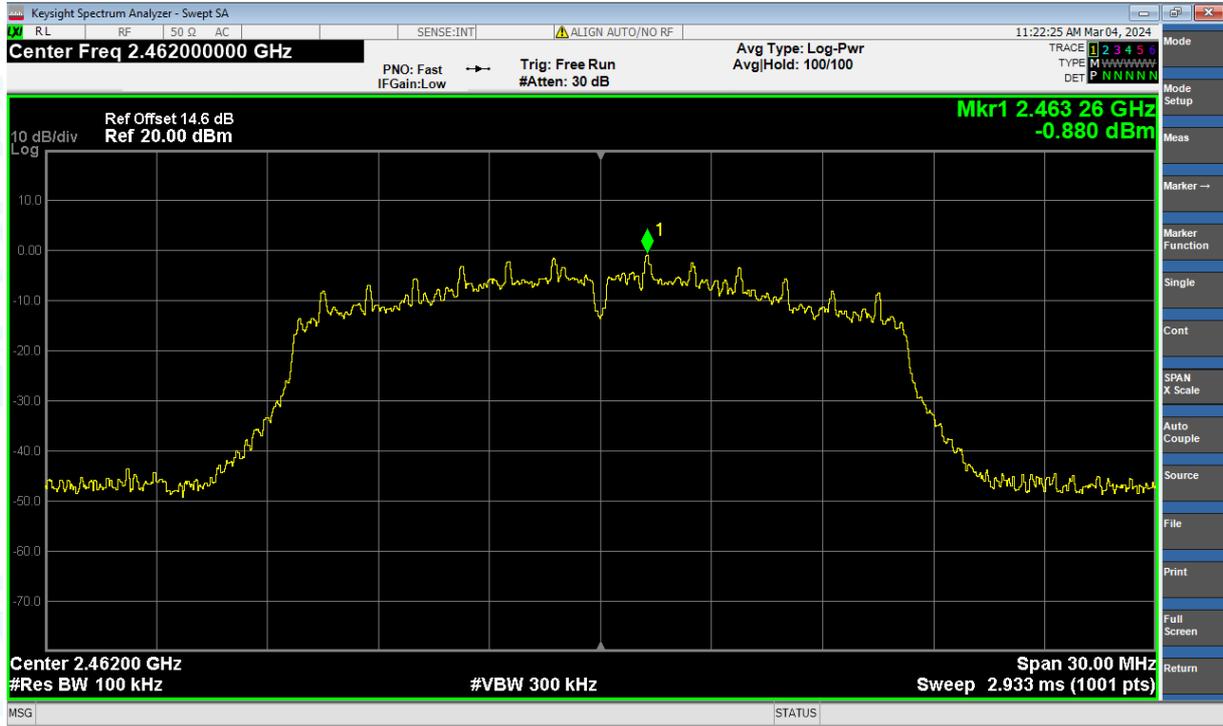
Band Edge NVNT g 2412MHz Ant1 Ref



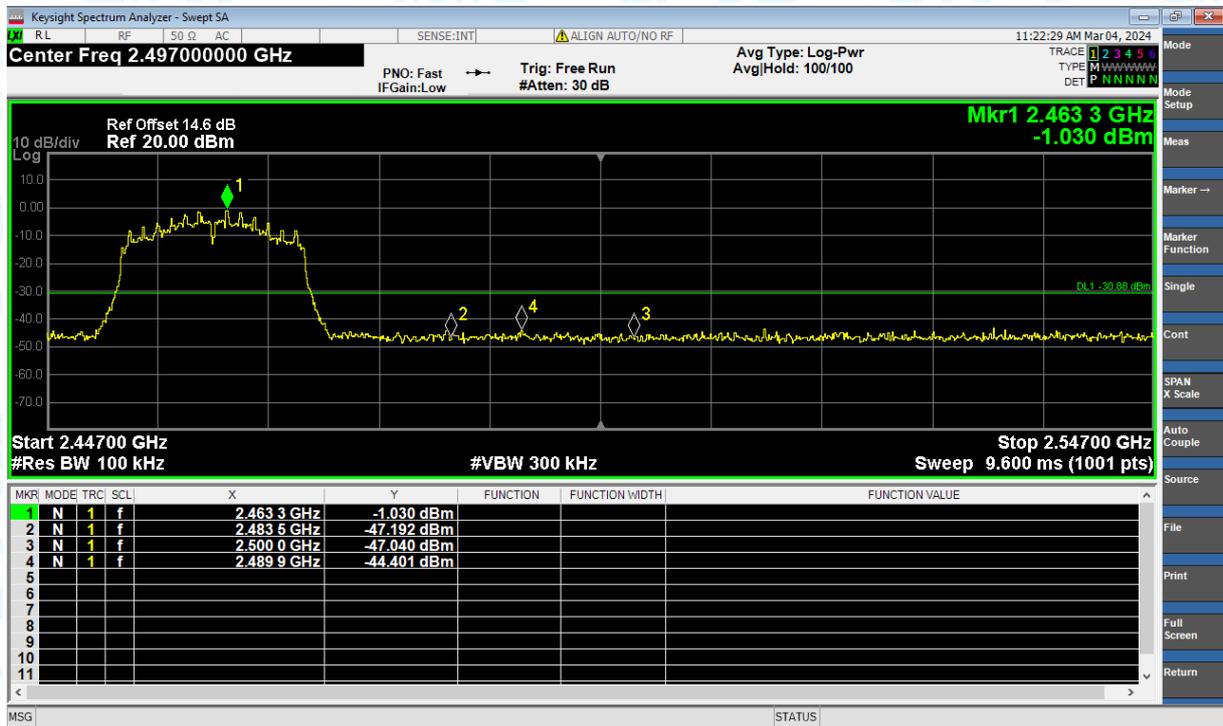
Band Edge NVNT g 2412MHz Ant1 Emission



Band Edge NVNT g 2462MHz Ant1 Ref



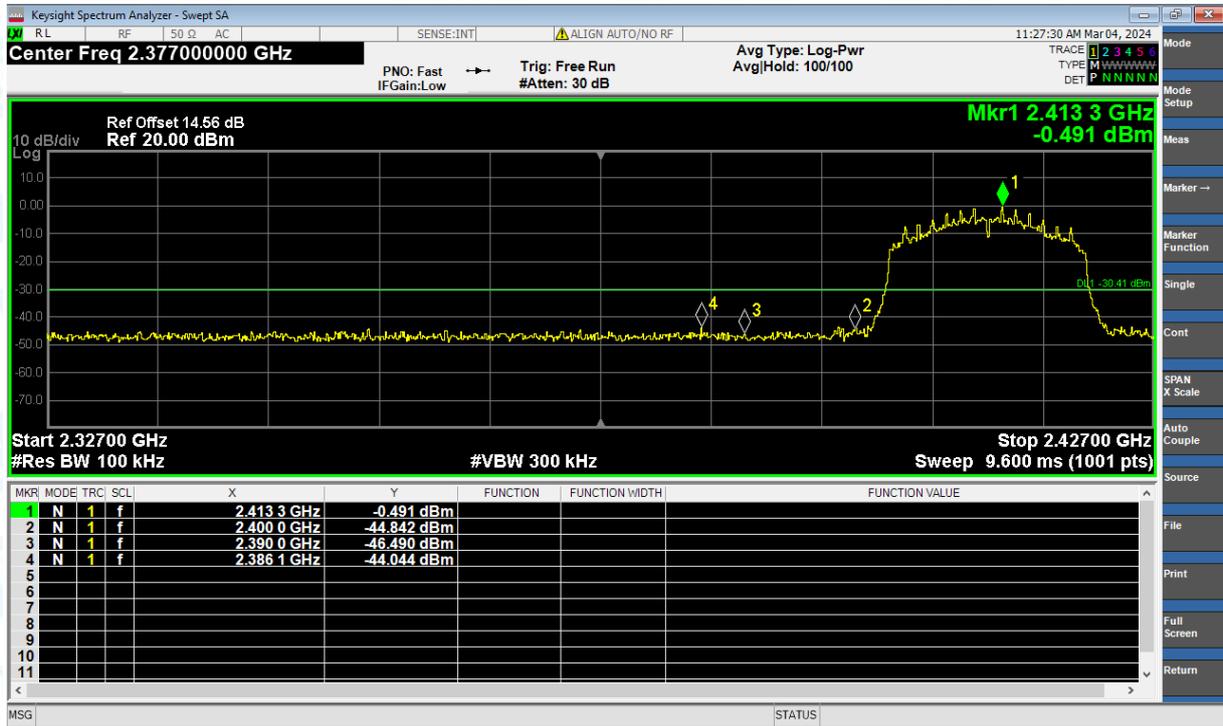
Band Edge NVNT g 2462MHz Ant1 Emission



Band Edge NVNT n(HT20) 2412MHz Ant1 Ref



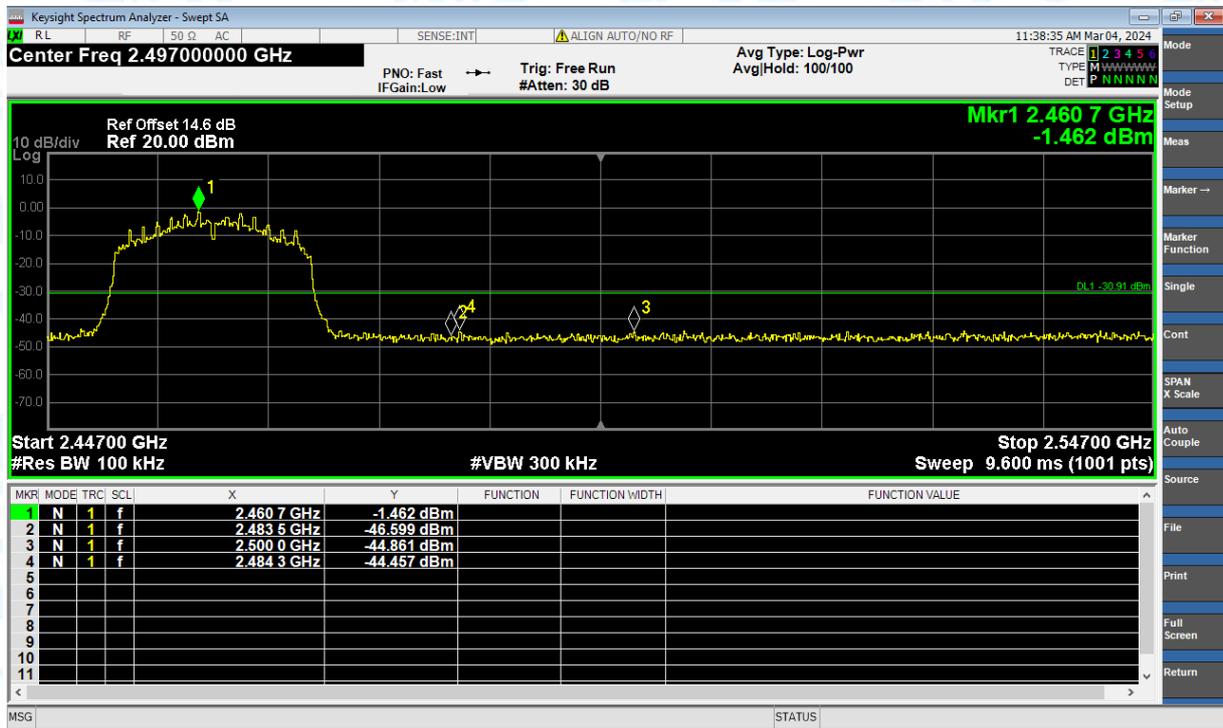
Band Edge NVNT n(HT20) 2412MHz Ant1 Emission



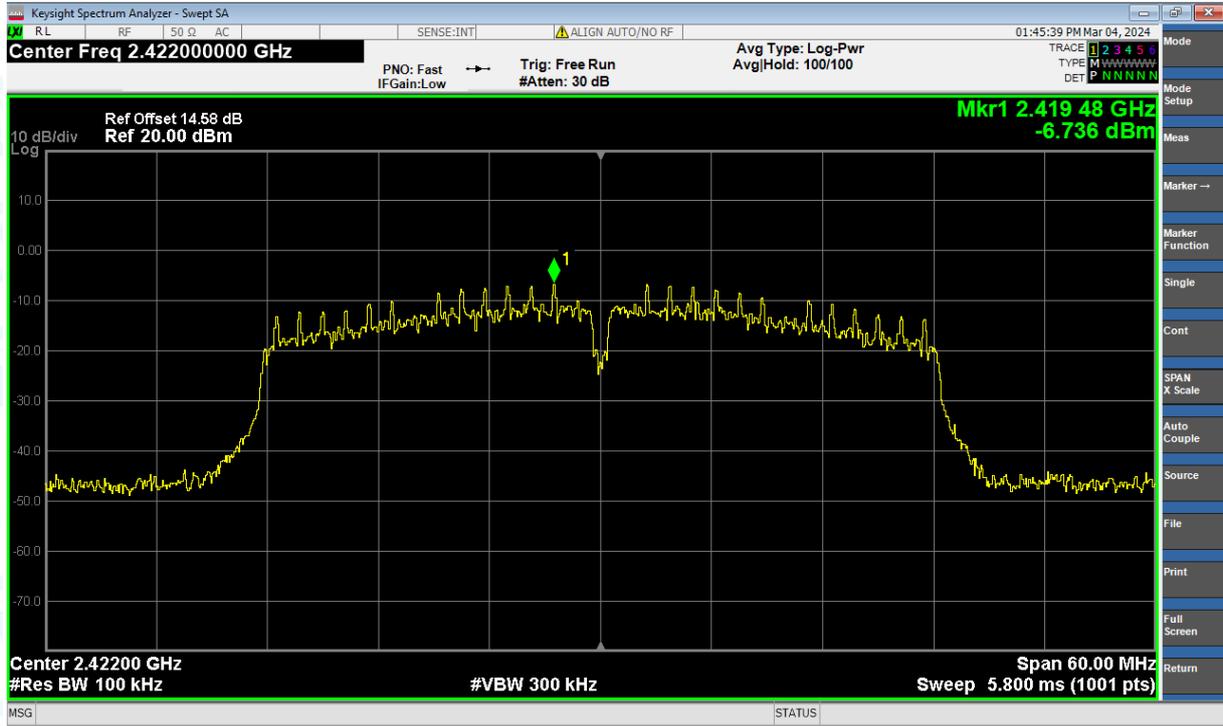
Band Edge NVNT n(HT20) 2462MHz Ant1 Ref



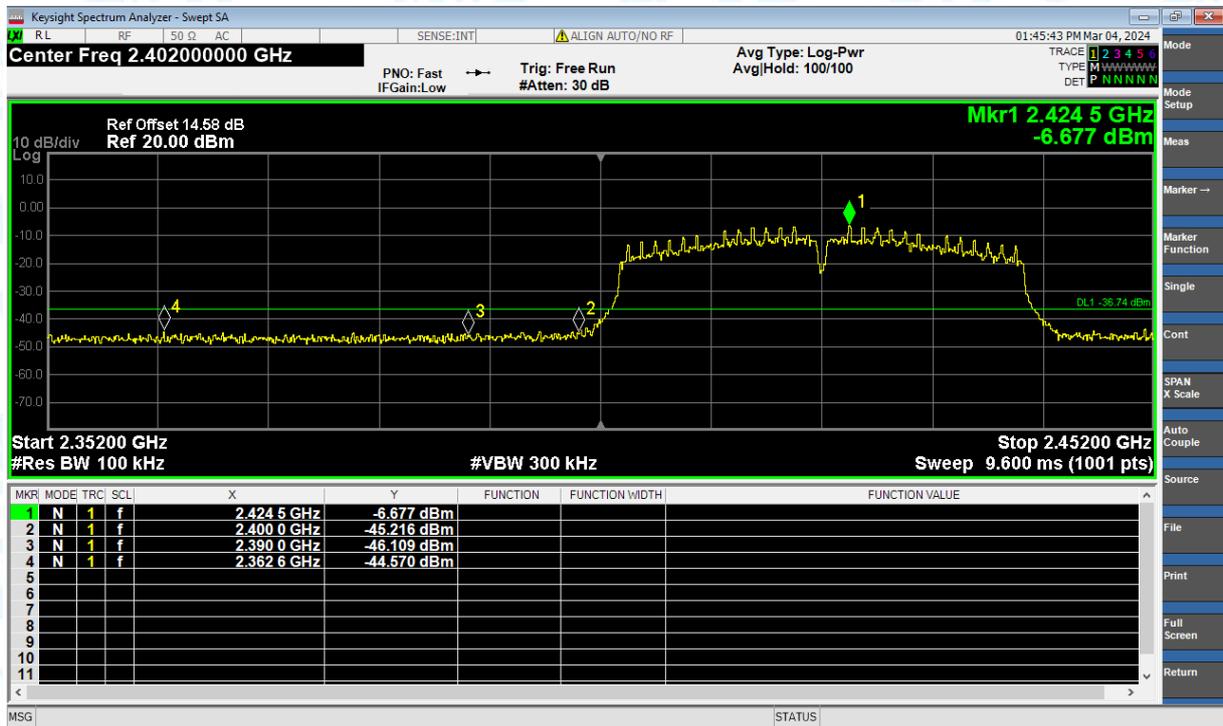
Band Edge NVNT n(HT20) 2462MHz Ant1 Emission



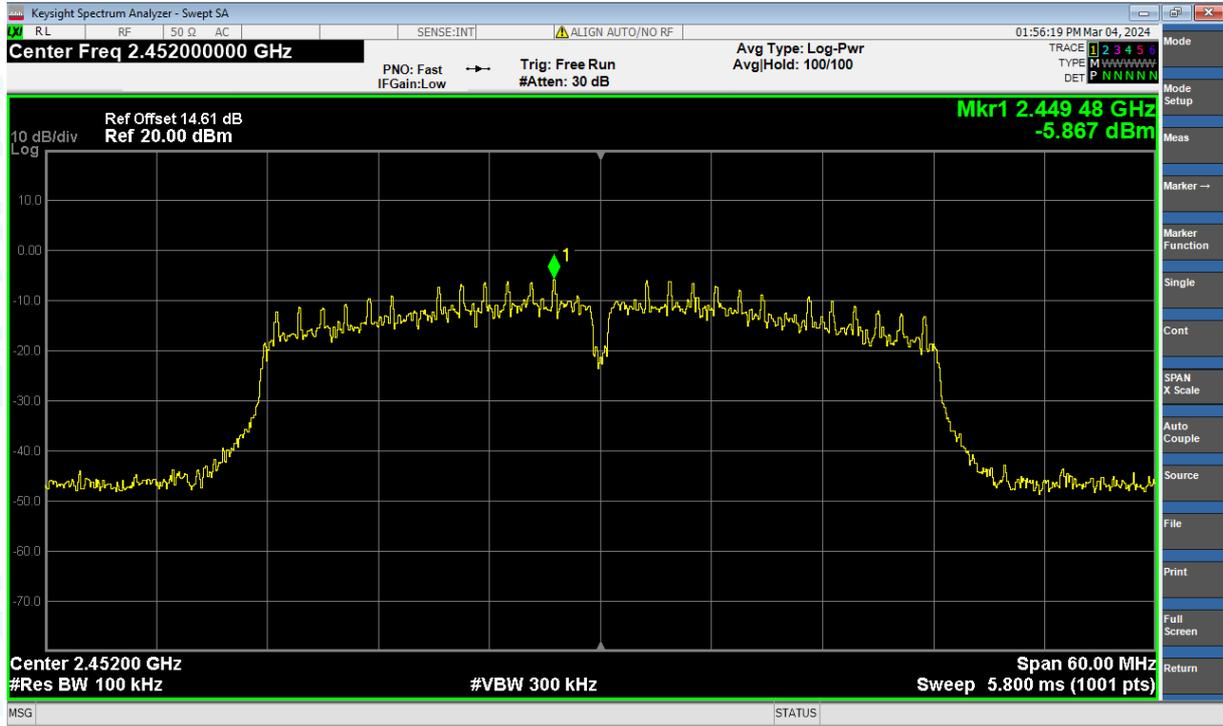
Band Edge NVNT n(HT40) 2422MHz Ant1 Ref



Band Edge NVNT n(HT40) 2422MHz Ant1 Emission



Band Edge NVNT n(HT40) 2452MHz Ant1 Ref



Band Edge NVNT n(HT40) 2452MHz Ant1 Emission



## 7. Conducted RF Spurious Emission

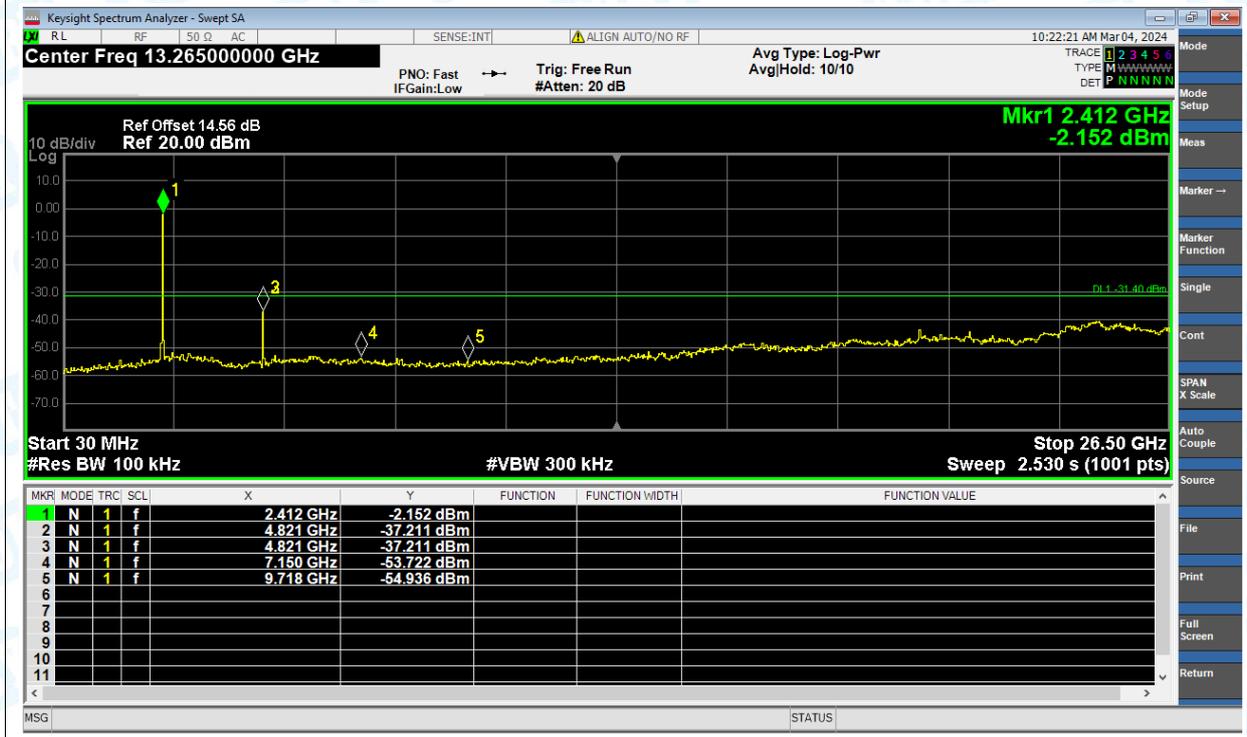
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-35.81	-30	Pass
NVNT	b	2437	Ant1	-37.71	-30	Pass
NVNT	b	2462	Ant1	-38.21	-30	Pass
NVNT	g	2412	Ant1	-39.42	-30	Pass
NVNT	g	2437	Ant1	-38.42	-30	Pass
NVNT	g	2462	Ant1	-38.59	-30	Pass
NVNT	n(HT20)	2412	Ant1	-38.9	-30	Pass
NVNT	n(HT20)	2437	Ant1	-38.25	-30	Pass
NVNT	n(HT20)	2462	Ant1	-41.01	-30	Pass
NVNT	n(HT40)	2422	Ant1	-34.94	-30	Pass
NVNT	n(HT40)	2437	Ant1	-32.36	-30	Pass
NVNT	n(HT40)	2452	Ant1	-34.38	-30	Pass

Test Graphs

Tx. Spurious NVNT b 2412MHz Ant1 Ref



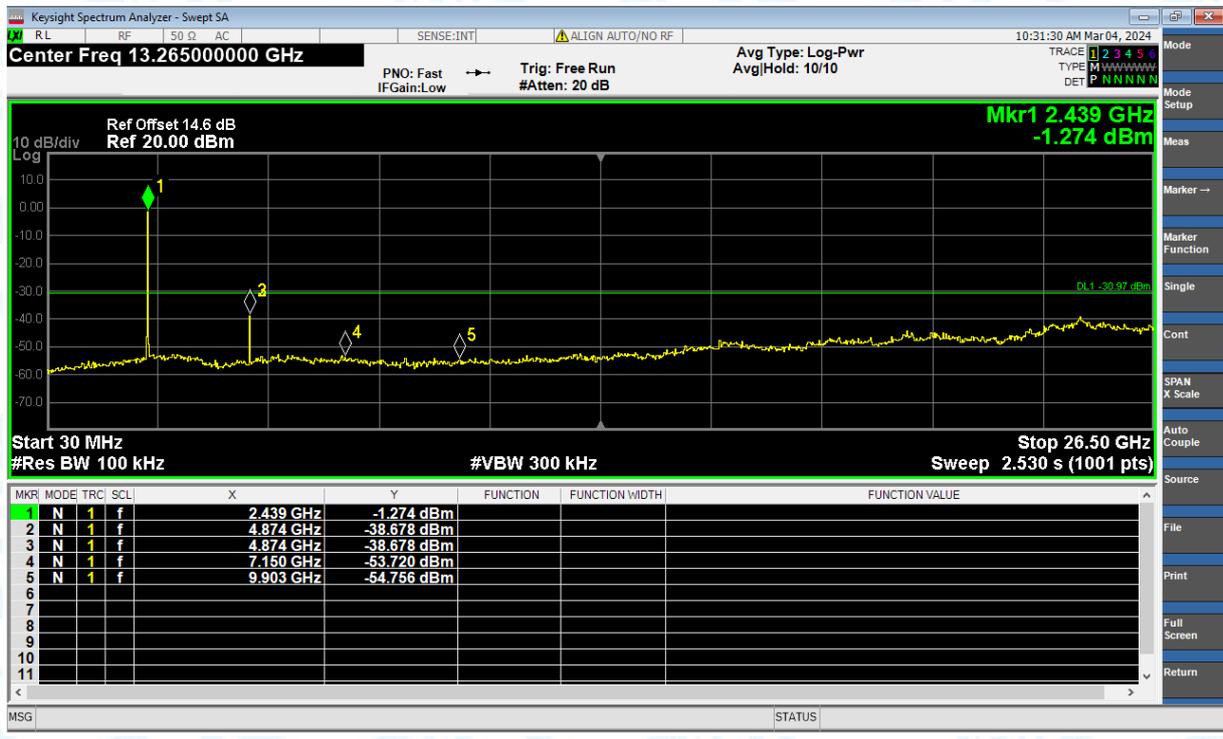
Tx. Spurious NVNT b 2412MHz Ant1 Emission



Tx. Spurious NVNT b 2437MHz Ant1 Ref



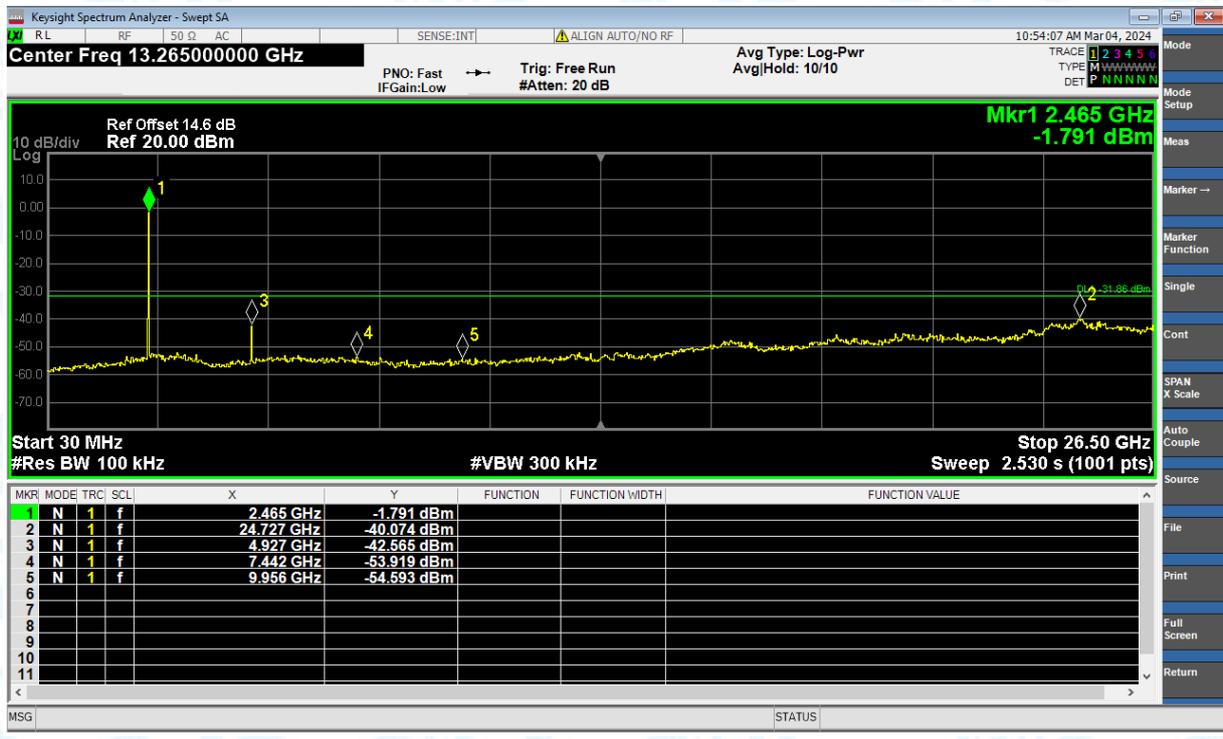
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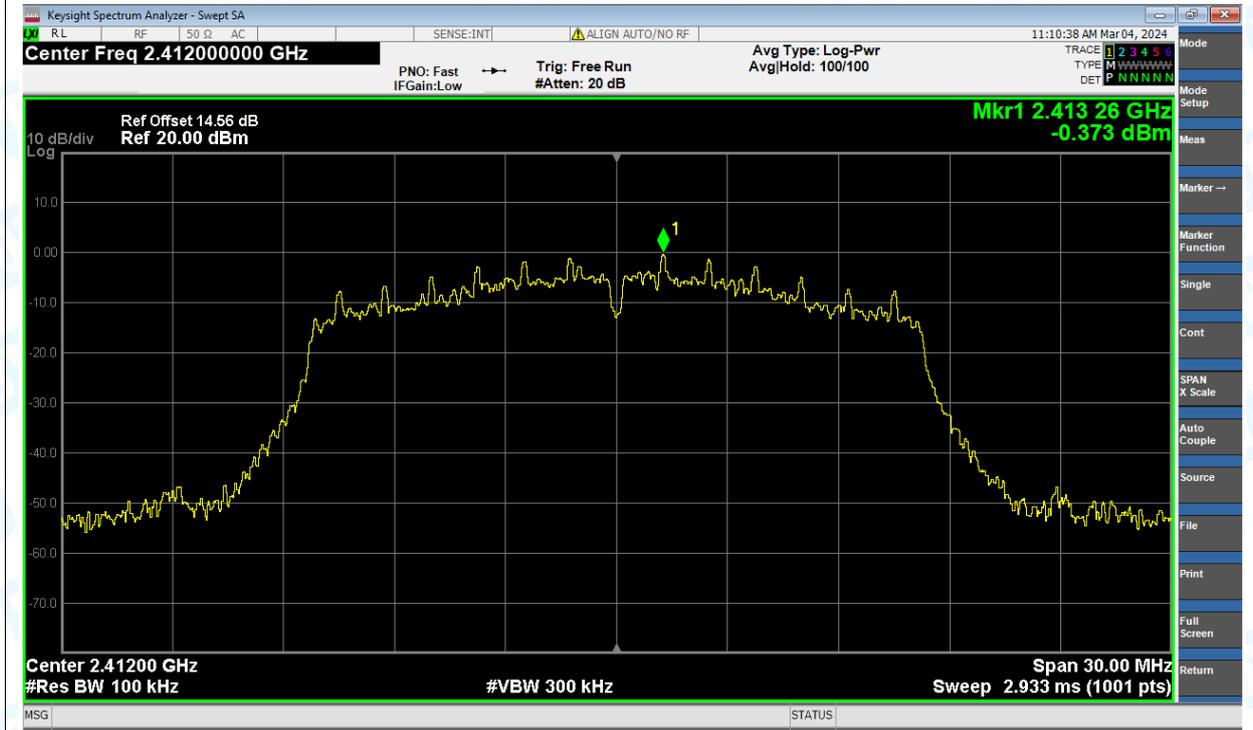
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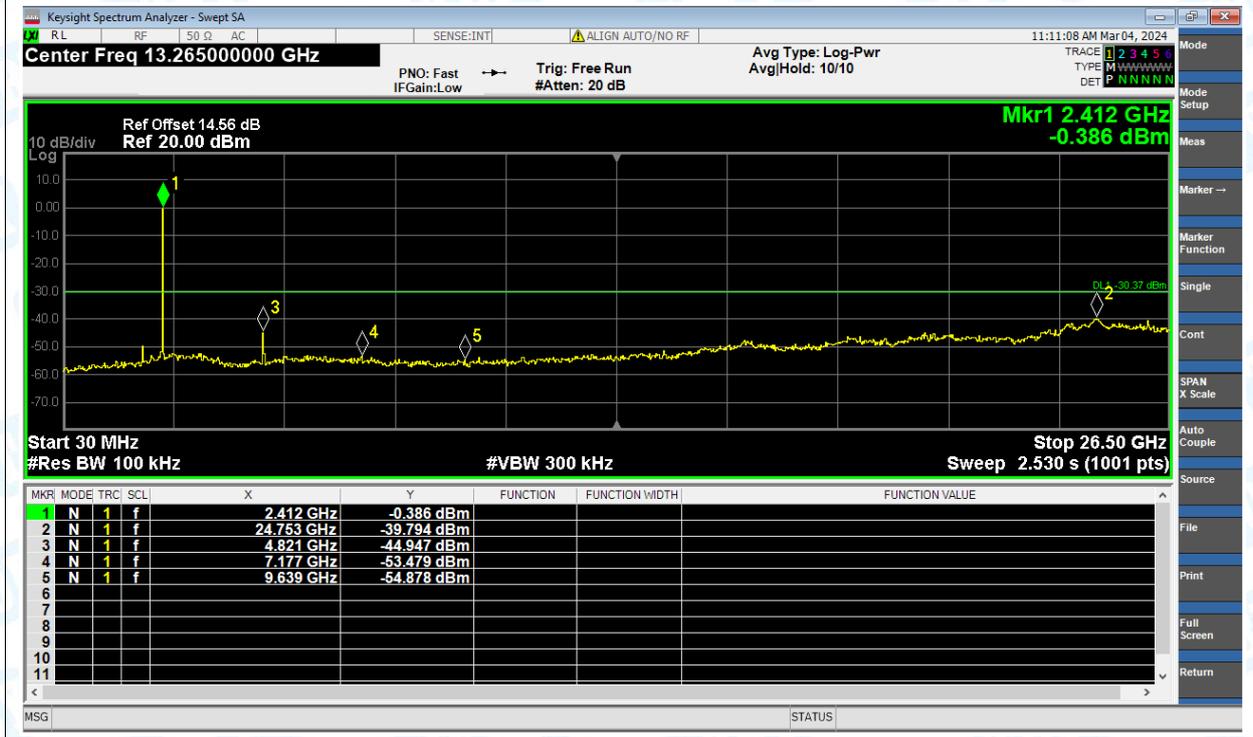
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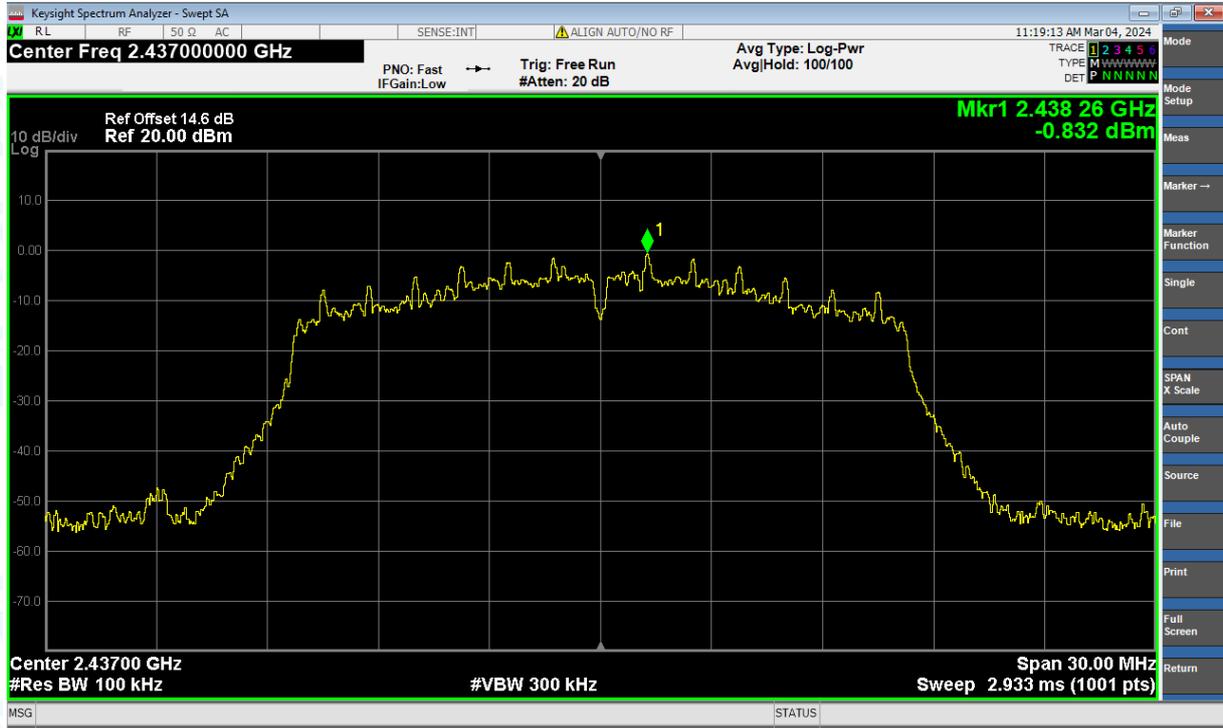
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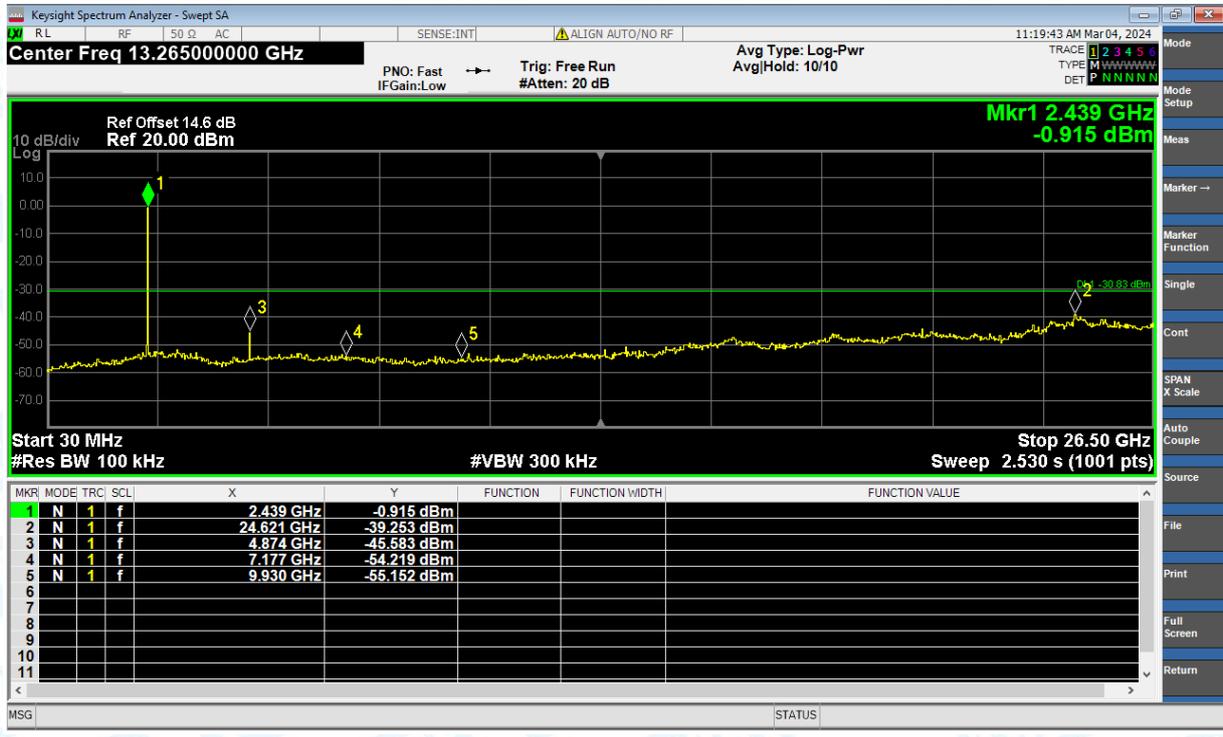
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Tx. Spurious NVNT g 2437MHz Ant1 Ref



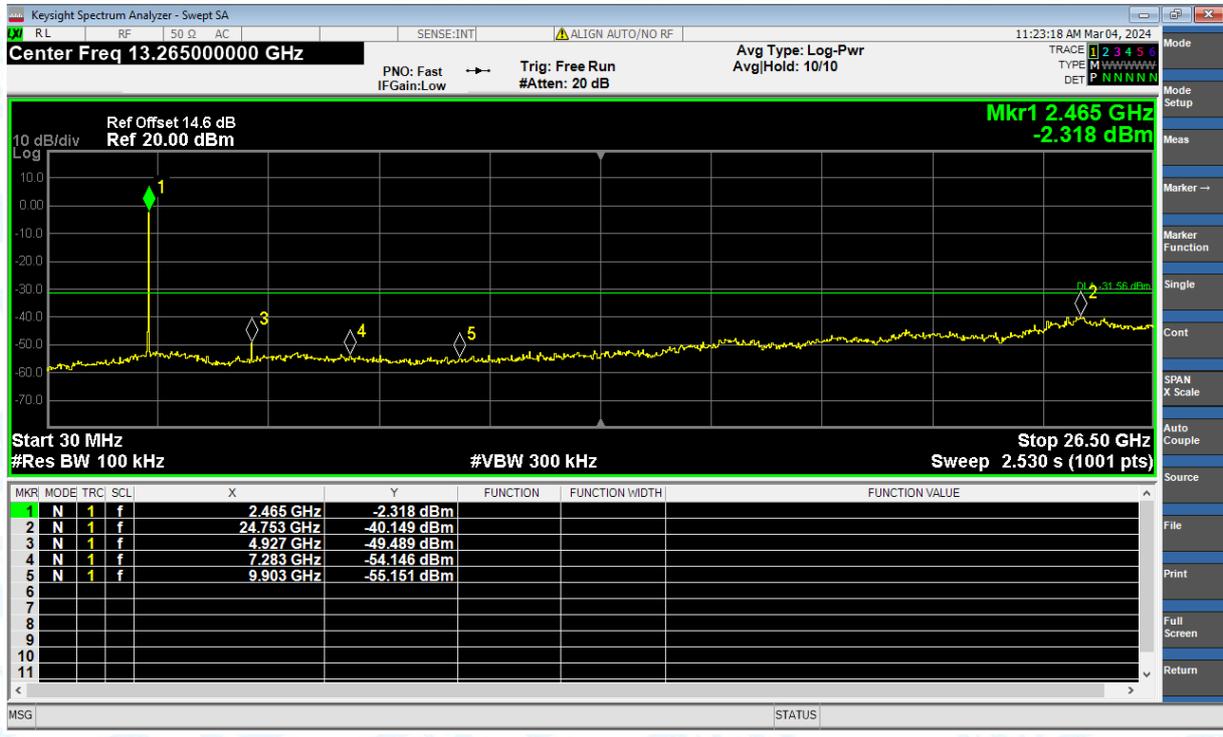
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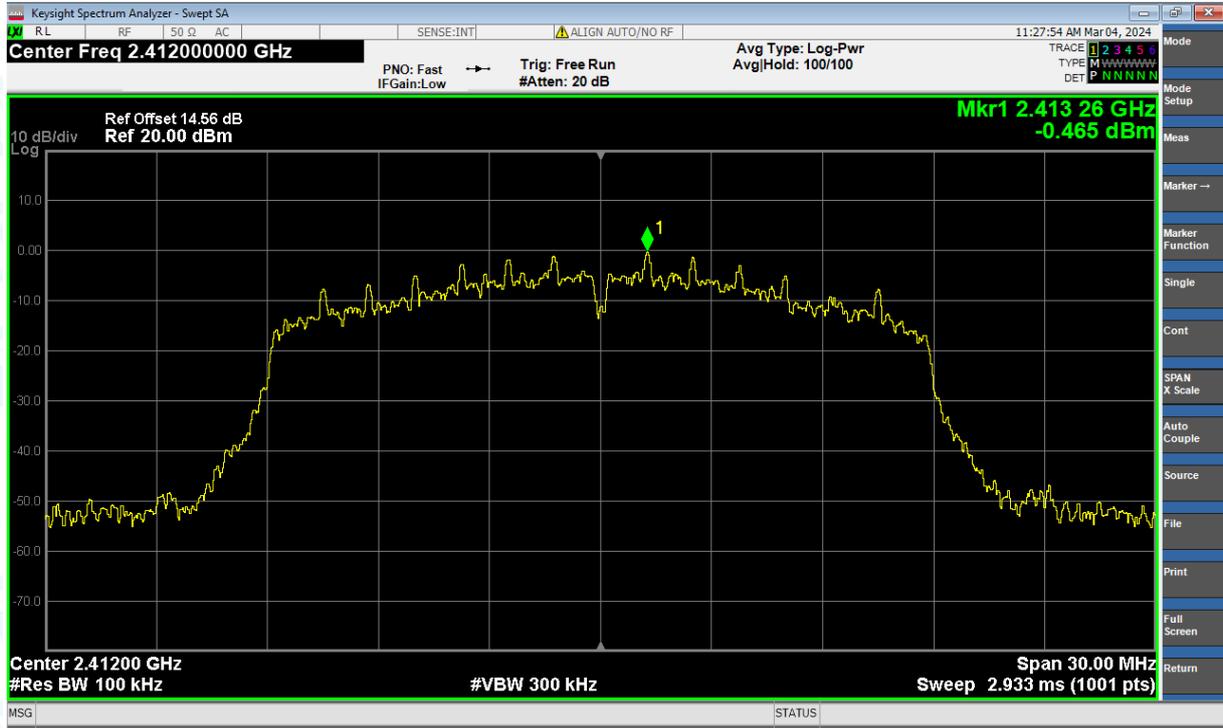
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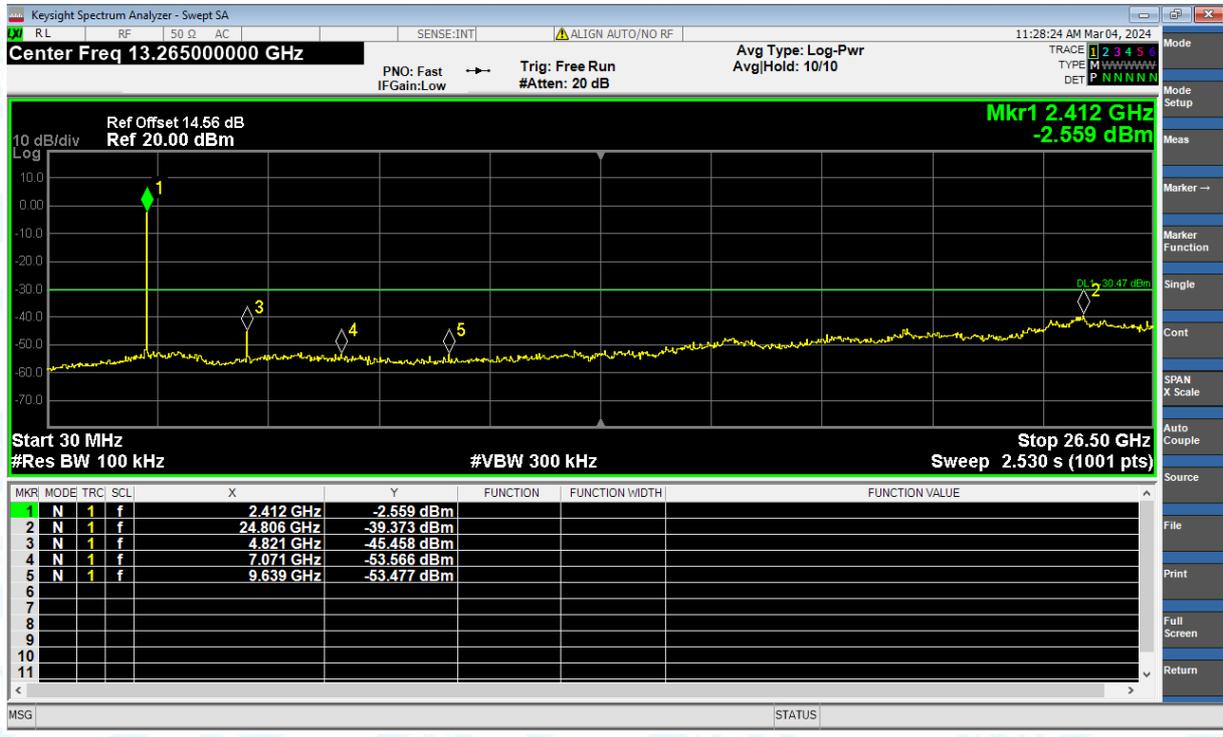
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Tx. Spurious NVNT n(HT20) 2412MHz Ant1 Ref



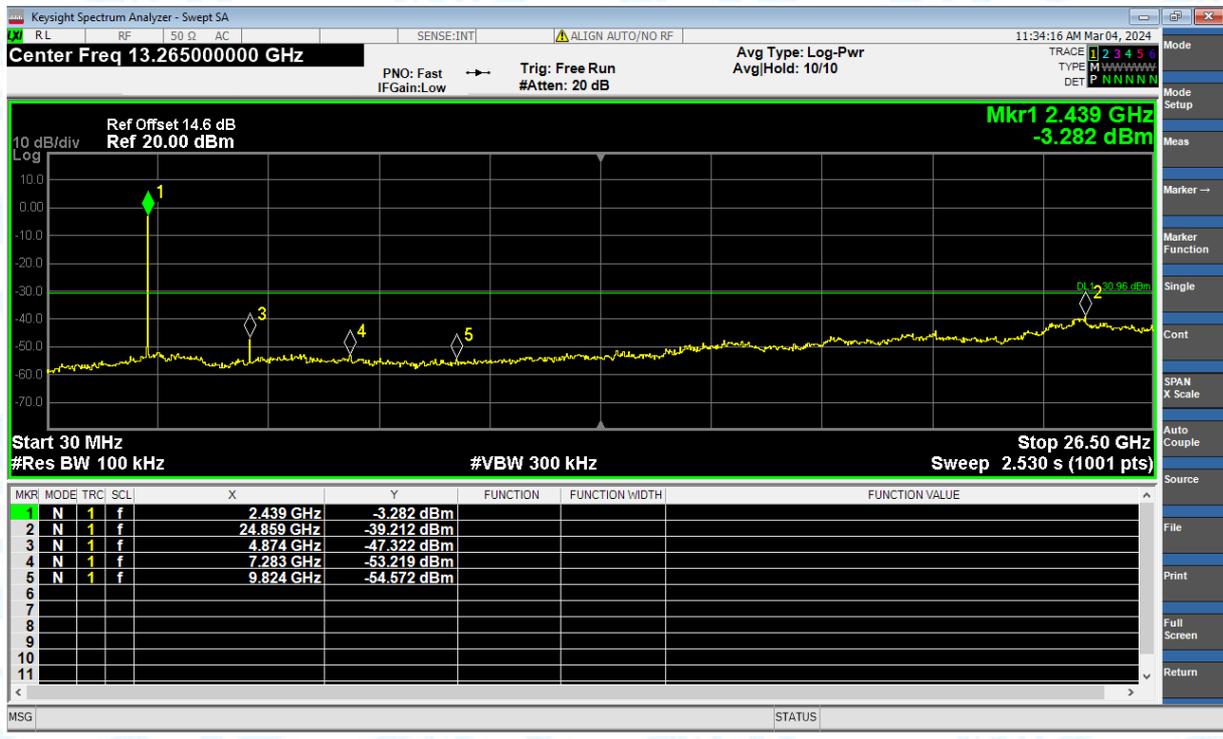
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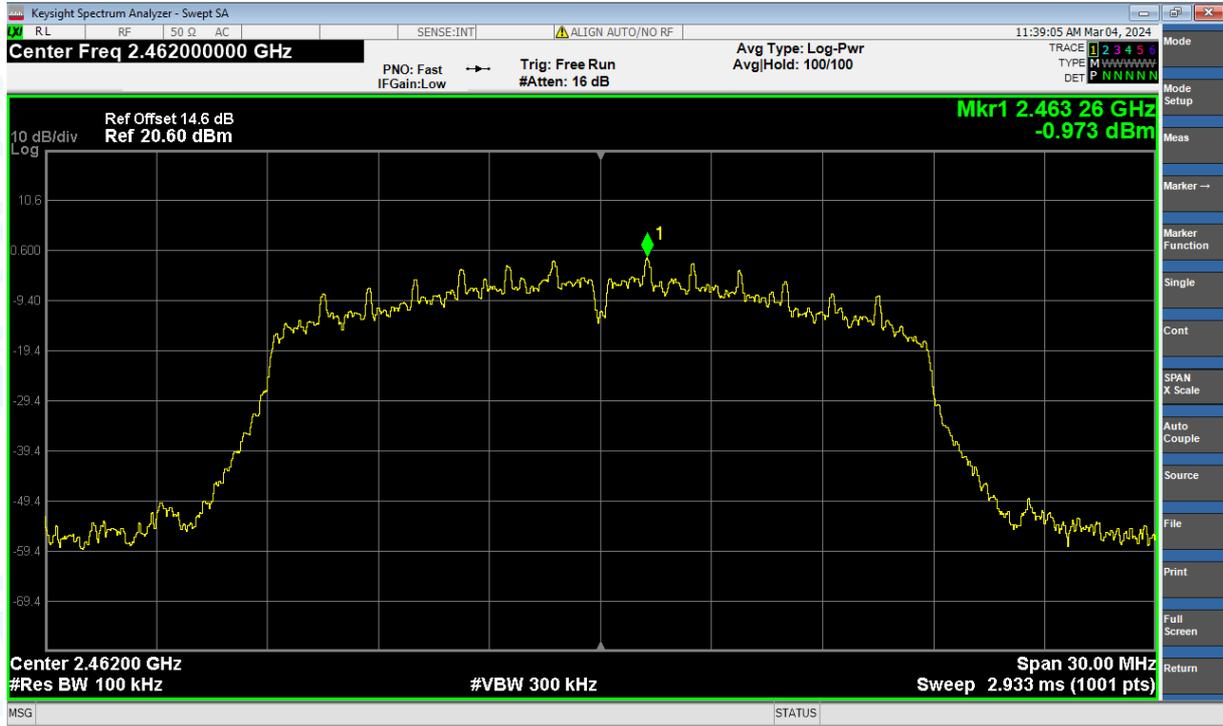
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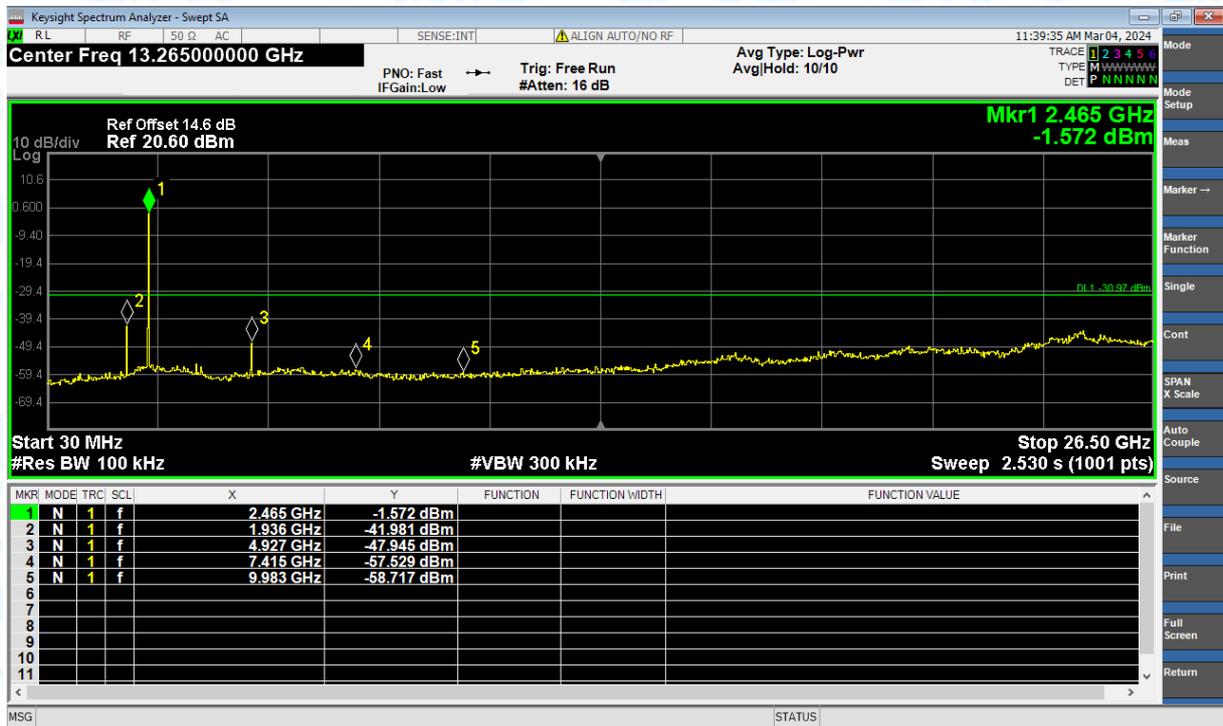
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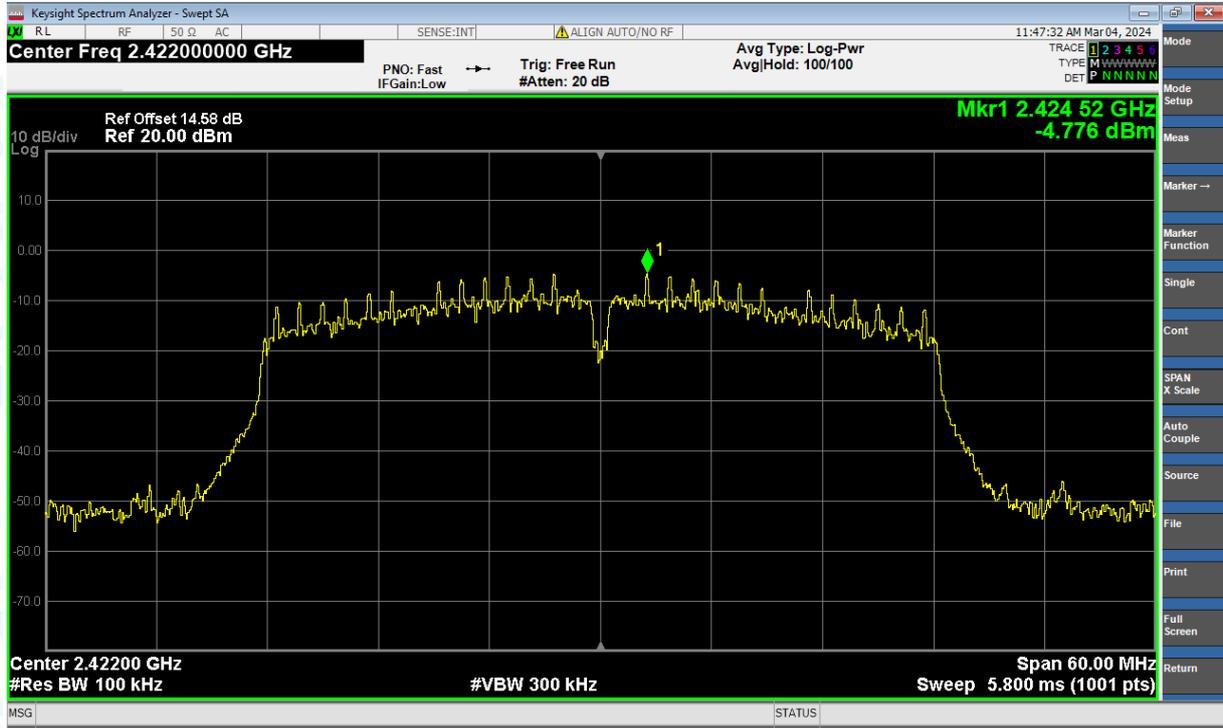
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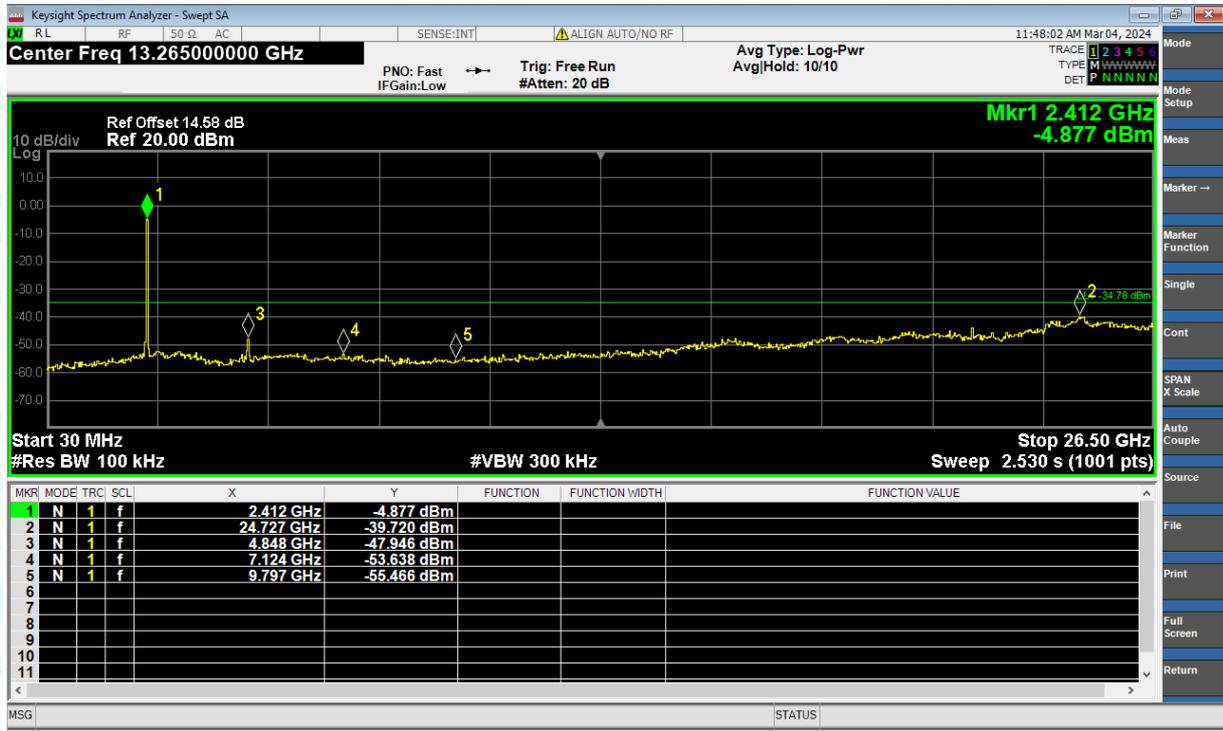
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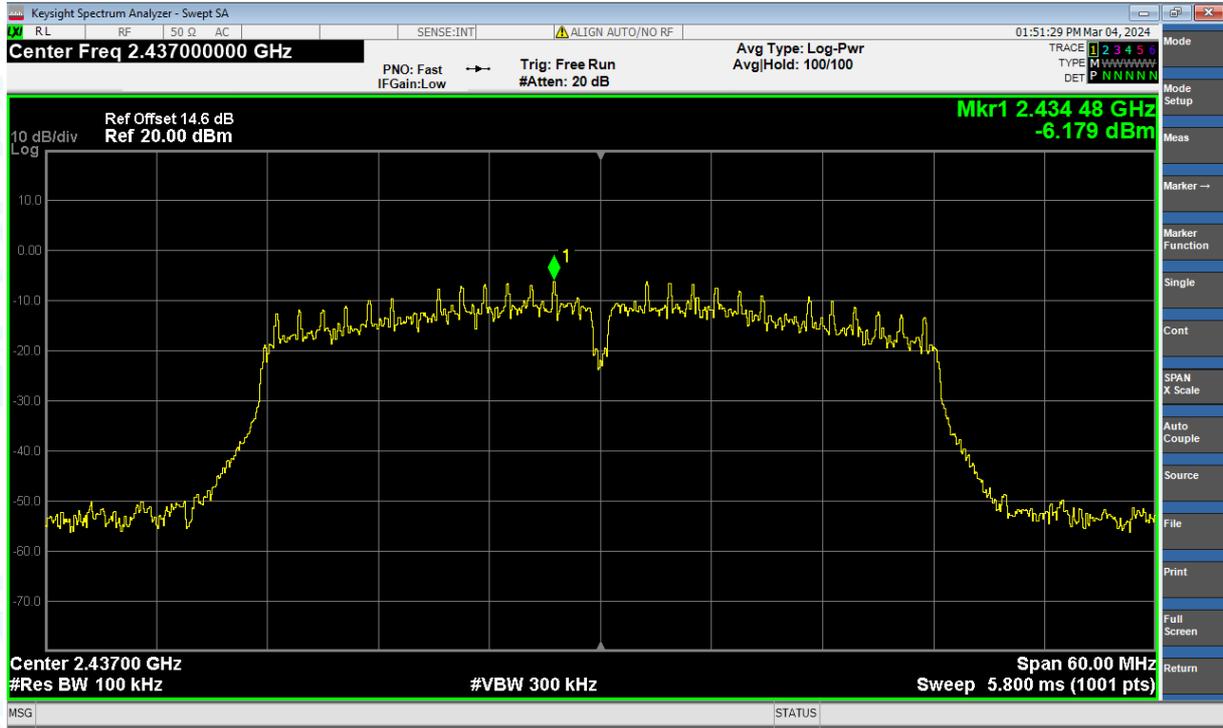
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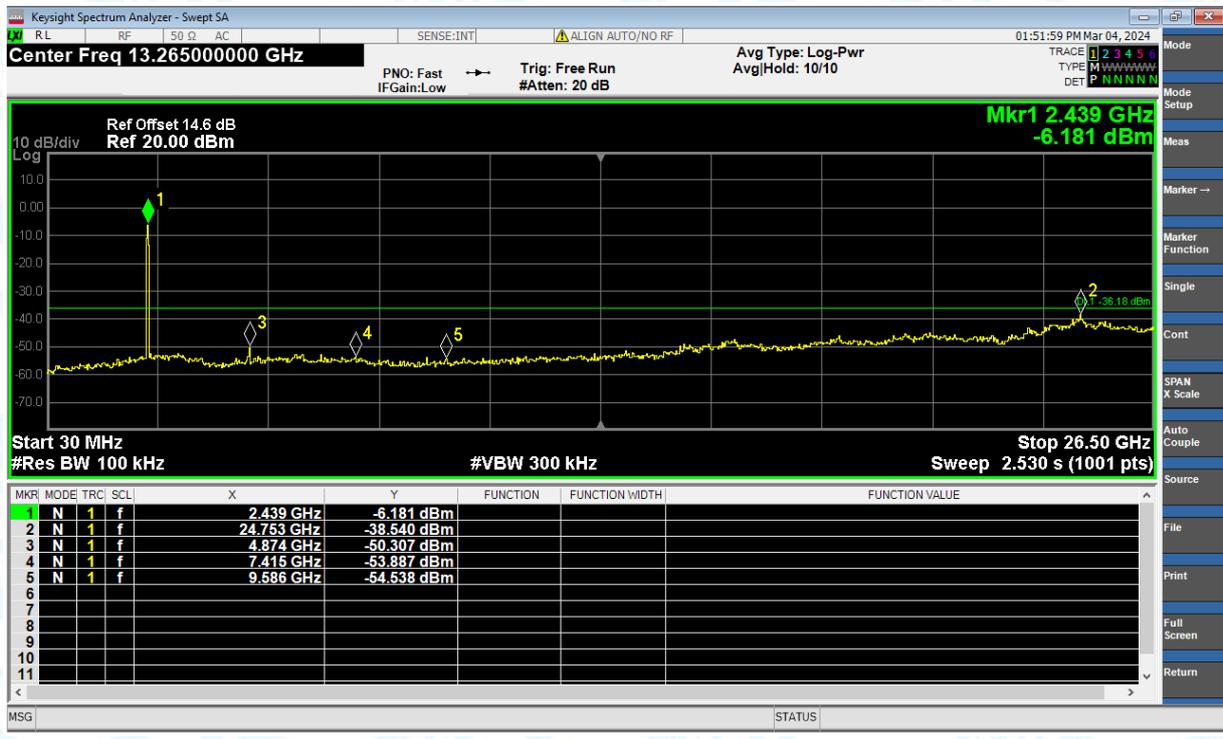
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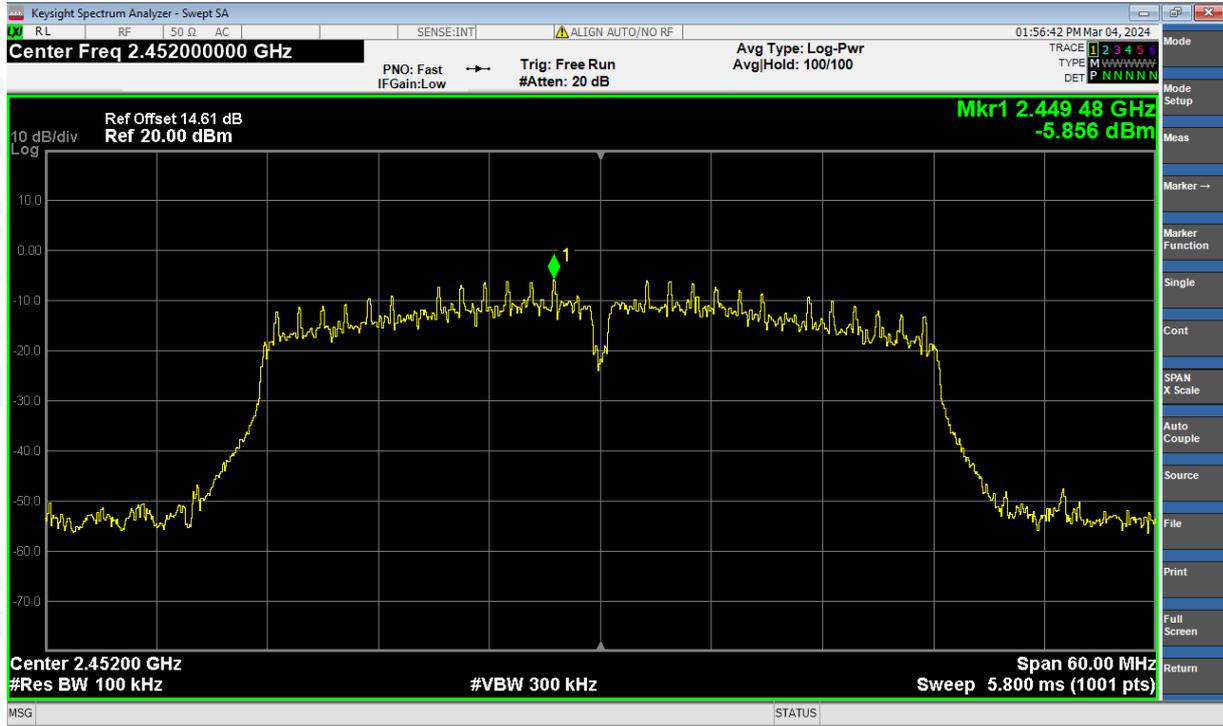
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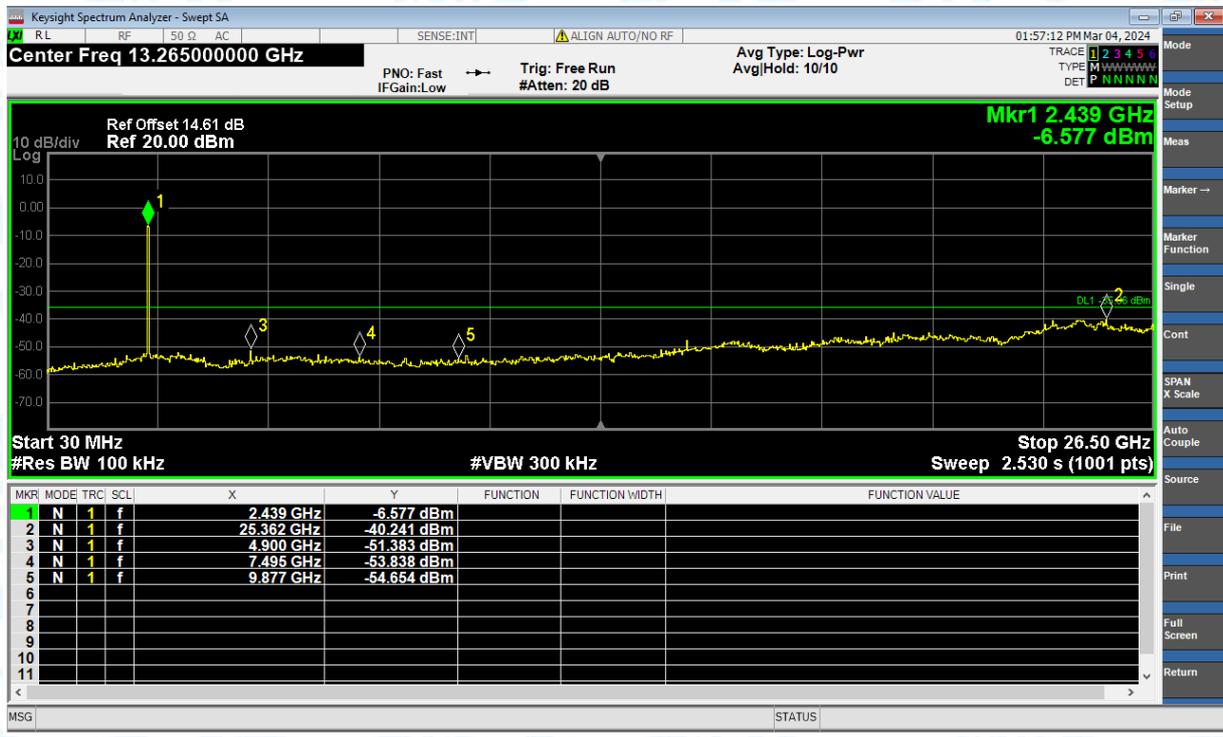
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Tx. Spurious NVNT n(HT40) 2452MHz Ant1 Ref



Tx. Spurious NVNT n(HT40) 2452MHz Ant1 Emission



## 8. Restrict Band

Condition	Mode	Frequency (MHz)	Antenna	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	Duty Factor (dB)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	b	2412	Ant1	2310	-55.18	3.72	-	43.8	Peak	74	Pass
NVNT	b	2412	Ant1	2310	-64.06	3.72	10.01	44.93	Average	54	Pass
NVNT	b	2412	Ant1	2387.571	-51.05	3.72	-	47.93	Peak	74	Pass
NVNT	b	2412	Ant1	2387.454	-60.73	3.72	10.01	48.26	Average	54	Pass
NVNT	b	2412	Ant1	2390	-52.39	3.72	-	46.59	Peak	74	Pass
NVNT	b	2412	Ant1	2390	-60.97	3.72	10.01	48.02	Average	54	Pass
NVNT	b	2462	Ant1	2483.5	-51.67	3.72	-	47.31	Peak	74	Pass
NVNT	b	2462	Ant1	2483.5	-62.1	3.72	9.97	46.85	Average	54	Pass
NVNT	b	2462	Ant1	2488.817	-50.96	3.72	-	48.02	Peak	74	Pass
NVNT	b	2462	Ant1	2486.644	-60.49	3.72	9.97	48.46	Average	54	Pass
NVNT	b	2462	Ant1	2500	-54.3	3.72	-	44.68	Peak	74	Pass
NVNT	b	2462	Ant1	2500	-62.19	3.72	9.97	46.76	Average	54	Pass
NVNT	g	2412	Ant1	2310	-53.85	3.72	-	45.13	Peak	74	Pass
NVNT	g	2412	Ant1	2310	-61.03	3.72	10.16	48.11	Average	54	Pass
NVNT	g	2412	Ant1	2387.22	-48.27	3.72	-	50.71	Peak	74	Pass
NVNT	g	2412	Ant1	2388.39	-57.69	3.72	10.16	51.45	Average	54	Pass
NVNT	g	2412	Ant1	2390	-50.44	3.72	-	48.54	Peak	74	Pass
NVNT	g	2412	Ant1	2390	-58.1	3.72	10.16	51.04	Average	54	Pass
NVNT	g	2462	Ant1	2483.5	-52.67	3.72	-	46.31	Peak	74	Pass
NVNT	g	2462	Ant1	2483.5	-59.92	3.72	10.13	49.19	Average	54	Pass
NVNT	g	2462	Ant1	2484.365	-49.09	3.72	-	49.89	Peak	74	Pass
NVNT	g	2462	Ant1	2488.605	-59.52	3.72	10.13	49.59	Average	54	Pass
NVNT	g	2462	Ant1	2500	-52.67	3.72	-	46.31	Peak	74	Pass
NVNT	g	2462	Ant1	2500	-60.55	3.72	10.13	48.56	Average	54	Pass
NVNT	n(HT20)	2412	Ant1	2310	-52.79	3.72	-	46.19	Peak	74	Pass
NVNT	n(HT20)	2412	Ant1	2310	-61.45	3.72	10.26	47.79	Average	54	Pass
NVNT	n(HT20)	2412	Ant1	2378.796	-48.43	3.72	-	50.55	Peak	74	Pass
NVNT	n(HT20)	2412	Ant1	2386.986	-57.76	3.72	10.26	51.48	Average	54	Pass
NVNT	n(HT20)	2412	Ant1	2390	-49.64	3.72	-	49.34	Peak	74	Pass
NVNT	n(HT20)	2412	Ant1	2390	-58.23	3.72	10.26	51.01	Average	54	Pass
NVNT	n(HT20)	2462	Ant1	2483.5	-49.96	3.72	-	49.02	Peak	74	Pass
NVNT	n(HT20)	2462	Ant1	2483.5	-58.61	3.72	10	50.37	Average	54	Pass
NVNT	n(HT20)	2462	Ant1	2484.736	-47.35	3.72	-	51.63	Peak	74	Pass
NVNT	n(HT20)	2462	Ant1	2489.665	-55.25	3.72	10	53.73	Average	54	Pass
NVNT	n(HT20)	2462	Ant1	2500	-50.61	3.72	-	48.37	Peak	74	Pass
NVNT	n(HT20)	2462	Ant1	2500	-58.11	3.72	10	50.87	Average	54	Pass
NVNT	n(HT40)	2422	Ant1	2310	-51.15	3.72	-	47.83	Peak	74	Pass
NVNT	n(HT40)	2422	Ant1	2310	-61.67	3.72	9.84	47.15	Average	54	Pass
NVNT	n(HT40)	2422	Ant1	2386.68	-45.42	3.72	-	53.56	Peak	74	Pass
NVNT	n(HT40)	2422	Ant1	2389.804	-55.47	3.72	9.84	53.35	Average	54	Pass
NVNT	n(HT40)	2422	Ant1	2390	-47.01	3.72	-	51.97	Peak	74	Pass

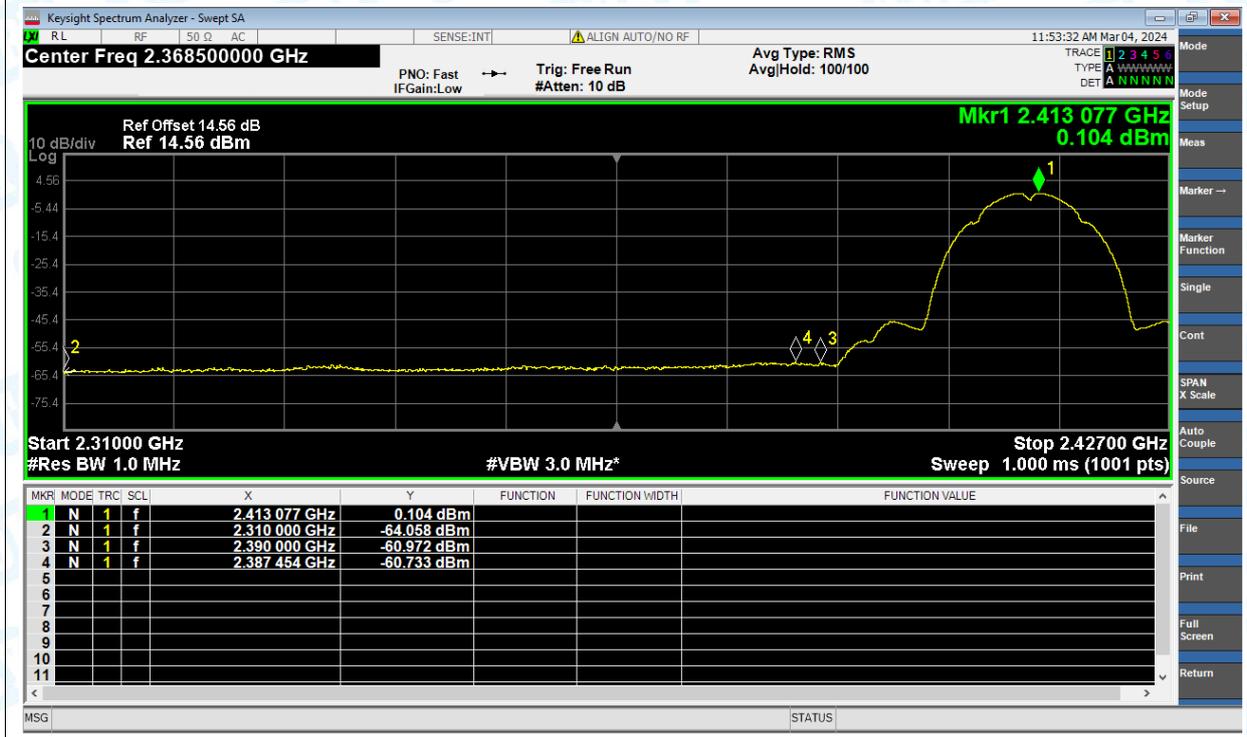
NVNT	n(HT40)	2422	Ant1	2390	-55.65	3.72	9.84	53.17	Average	54	Pass
NVNT	n(HT40)	2452	Ant1	2483.5	-48.34	3.72	-	50.64	Peak	74	Pass
NVNT	n(HT40)	2452	Ant1	2483.5	-56.48	3.72	10.21	52.71	Average	54	Pass
NVNT	n(HT40)	2452	Ant1	2486.896	-45.05	3.72	-	53.93	Peak	74	Pass
NVNT	n(HT40)	2452	Ant1	2484.322	-55.51	3.72	10.21	53.68	Average	54	Pass
NVNT	n(HT40)	2452	Ant1	2500	-54.05	3.72	-	44.93	Peak	74	Pass
NVNT	n(HT40)	2452	Ant1	2500	-60.91	3.72	10.21	48.28	Average	54	Pass

Test Graphs

Restrict Band NVNT b 2412MHz Ant1 Peak



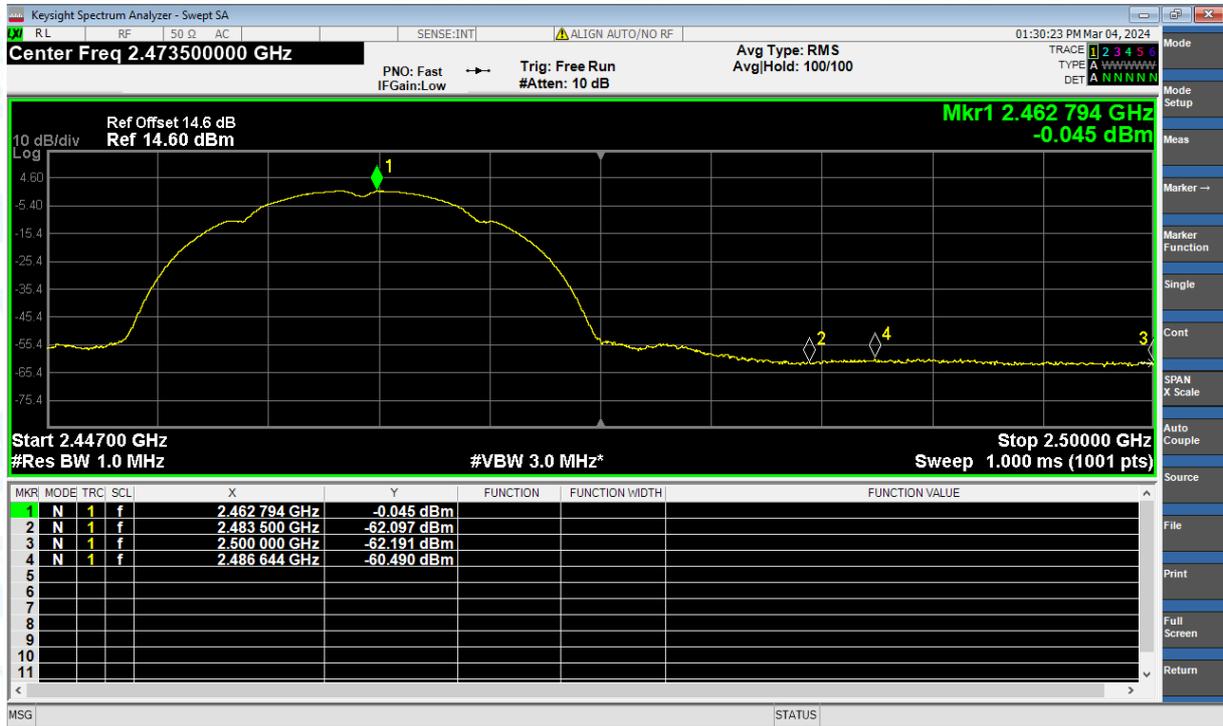
Restrict Band NVNT b 2412MHz Ant1 Average



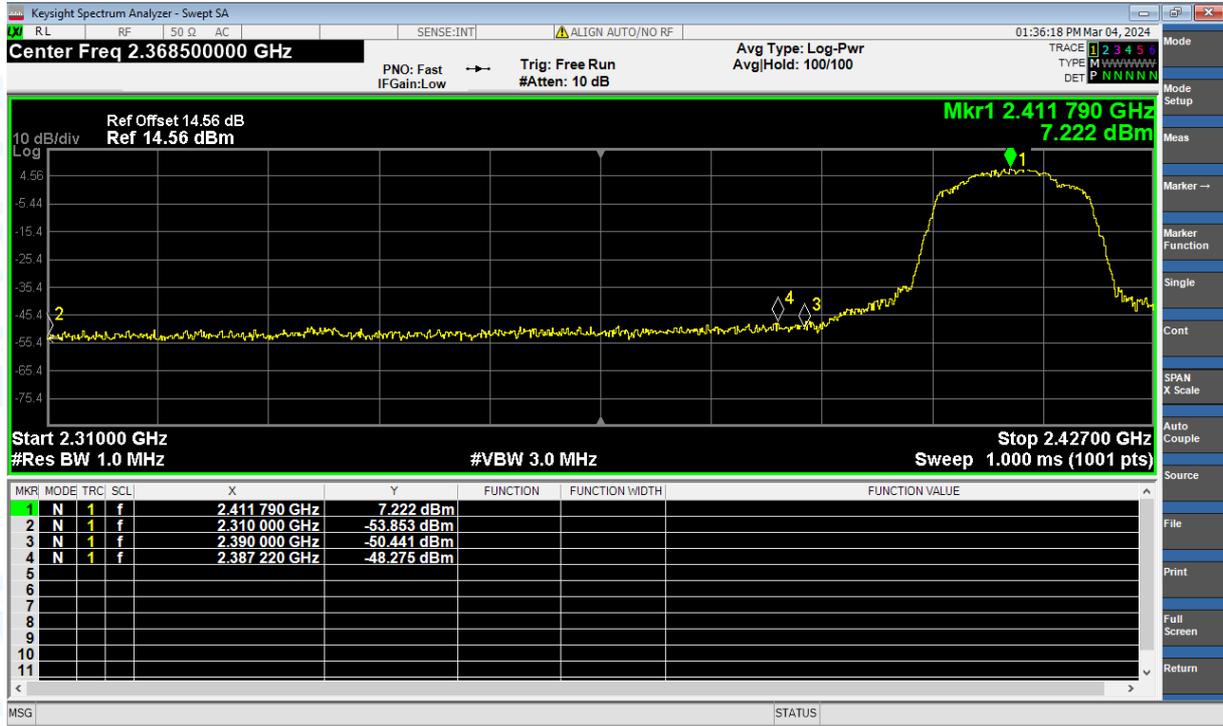
Restrict Band NVNT b 2462MHz Ant1 Peak



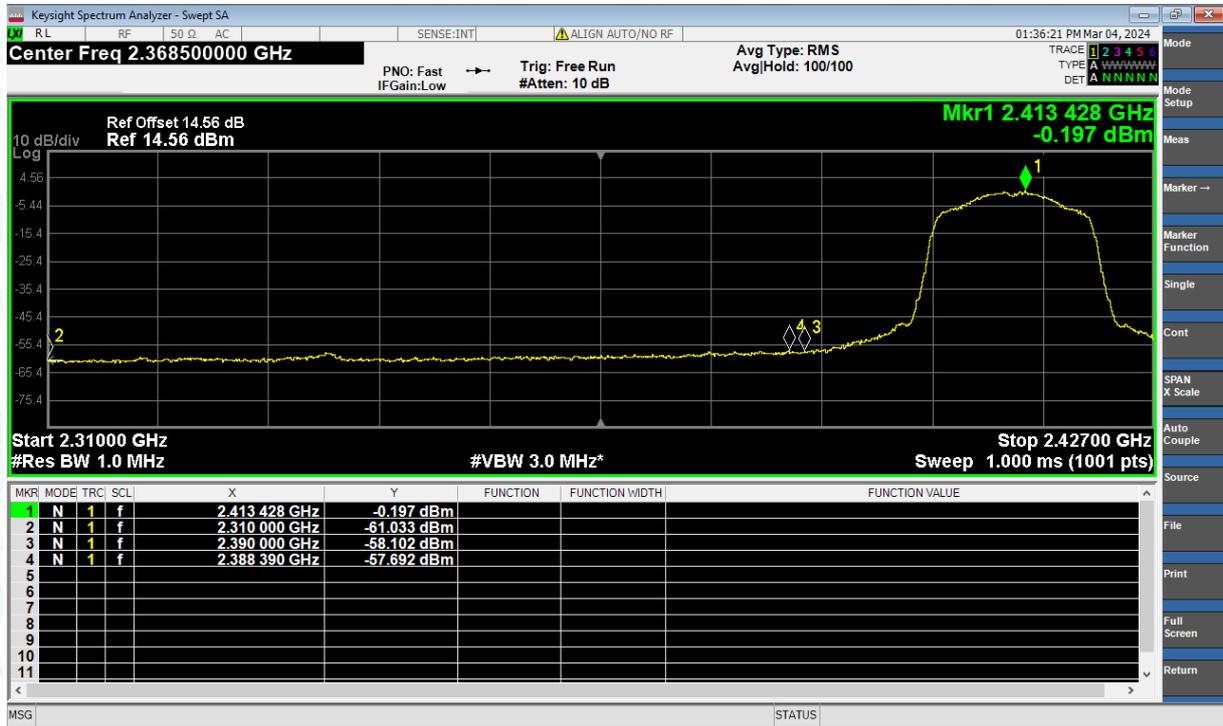
Restrict Band NVNT b 2462MHz Ant1 Average



Restrict Band NVNT g 2412MHz Ant1 Peak



Restrict Band NVNT g 2412MHz Ant1 Average



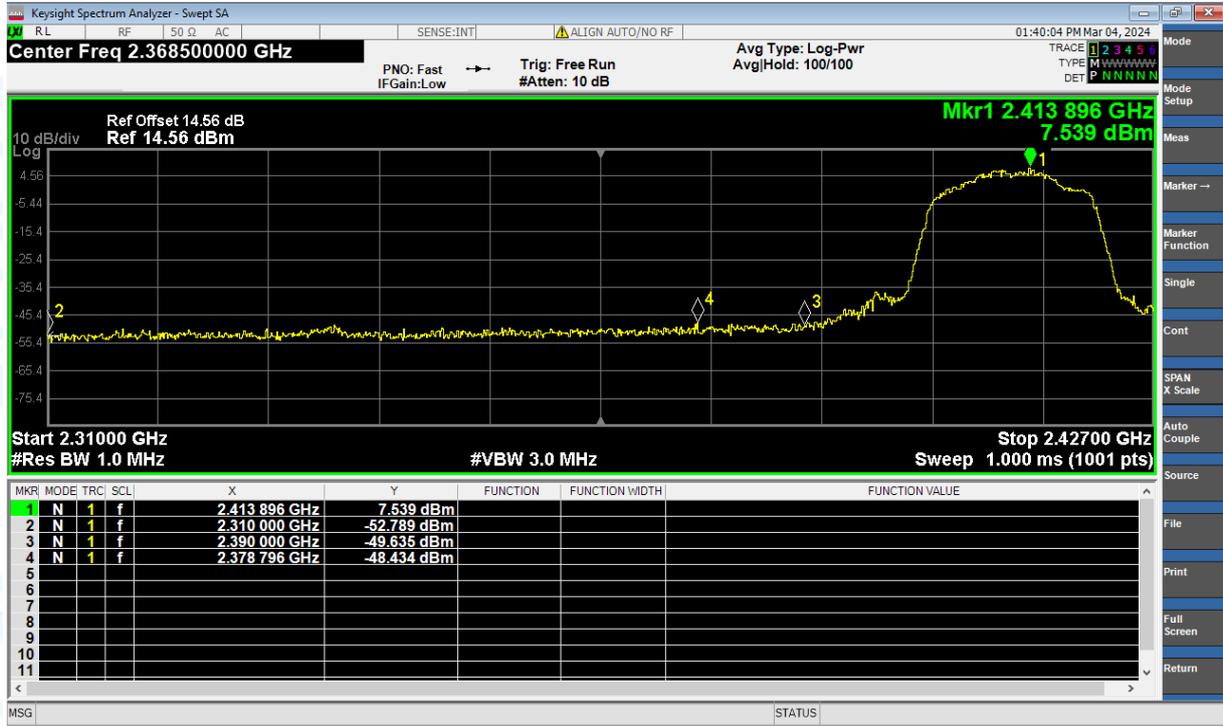
Restrict Band NVNT g 2462MHz Ant1 Peak



Restrict Band NVNT g 2462MHz Ant1 Average



Restrict Band NVNT n(HT20) 2412MHz Ant1 Peak



Restrict Band NVNT n(HT20) 2412MHz Ant1 Average



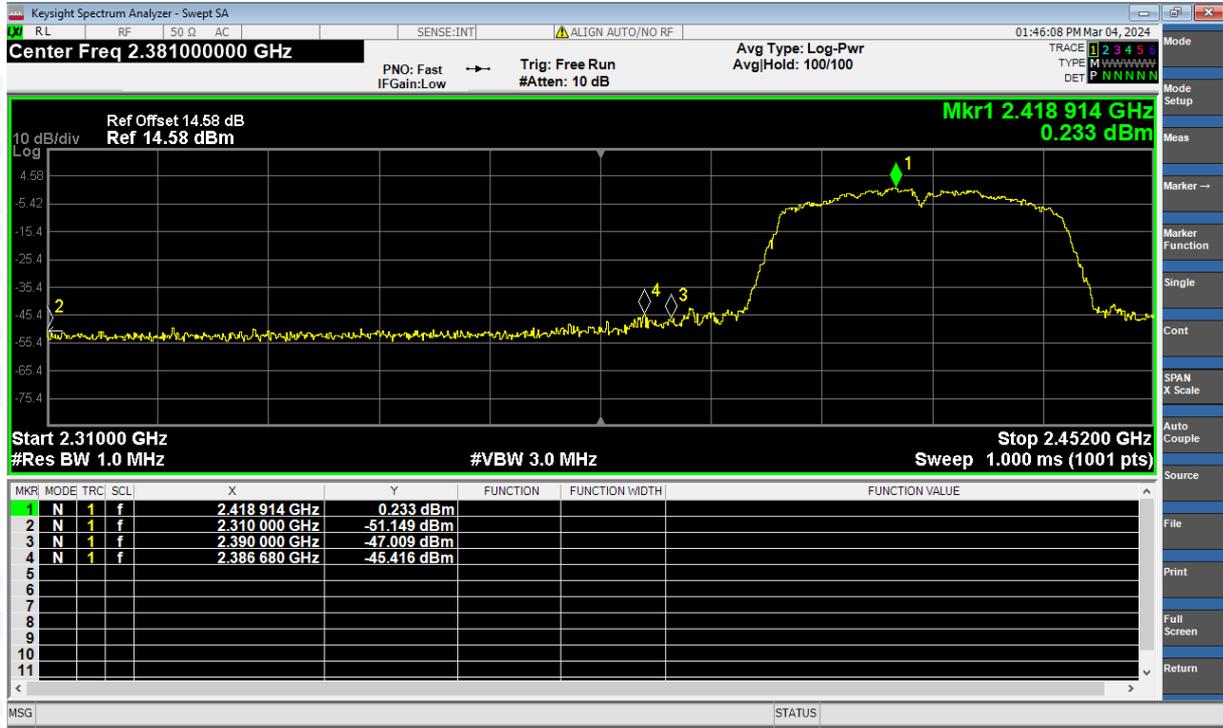
Restrict Band NVNT n(HT20) 2462MHz Ant1 Peak



Restrict Band NVNT n(HT20) 2462MHz Ant1 Average



Restrict Band NVNT n(HT40) 2422MHz Ant1 Peak



Restrict Band NVNT n(HT40) 2422MHz Ant1 Average



Restrict Band NVNT n(HT40) 2452MHz Ant1 Peak



Restrict Band NVNT n(HT40) 2452MHz Ant1 Average



-----END OF THE REPORT-----