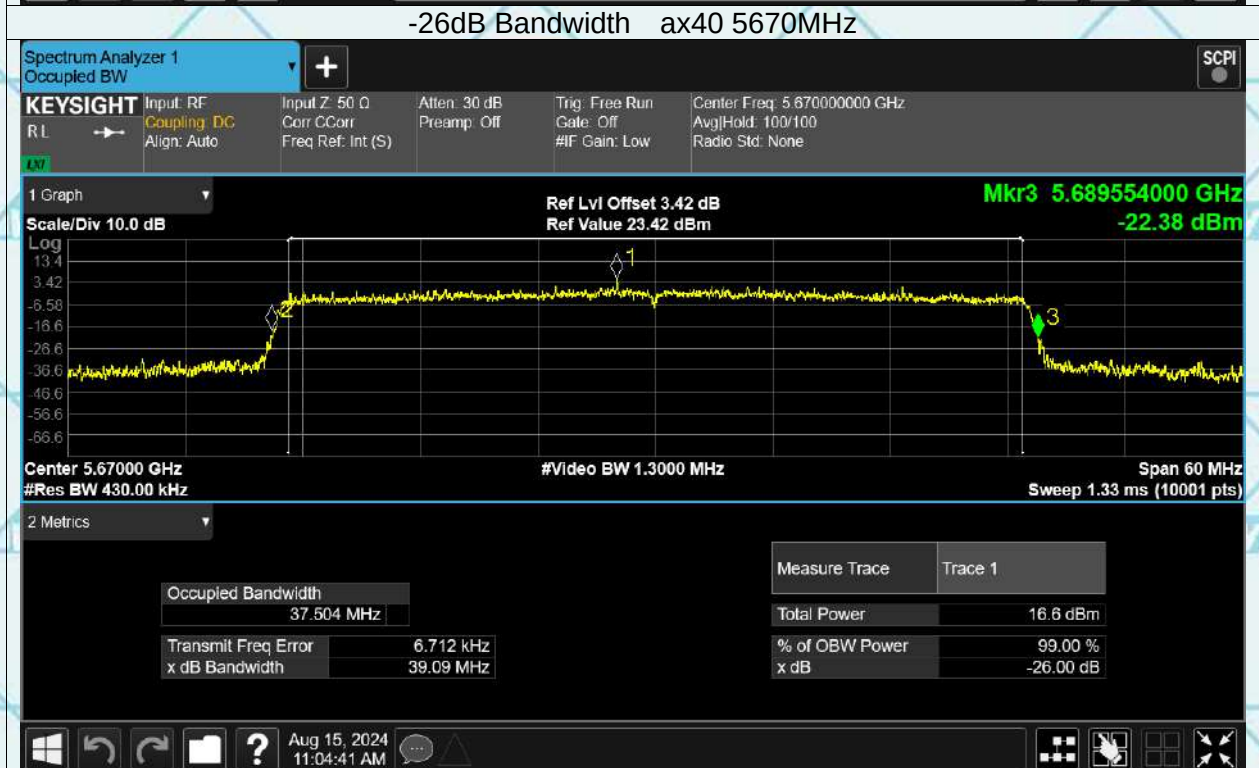
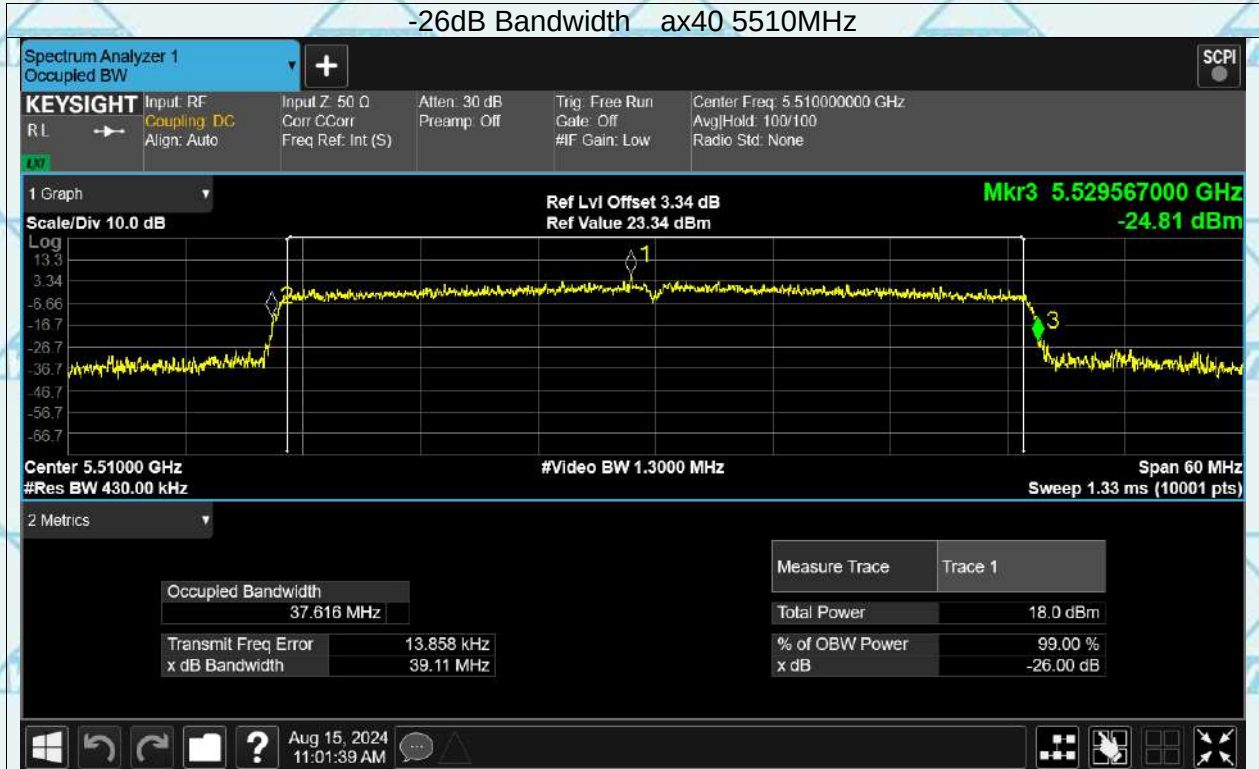




Report No.: WSCT-A2LA-R&E240300015A-Wi-Fi2

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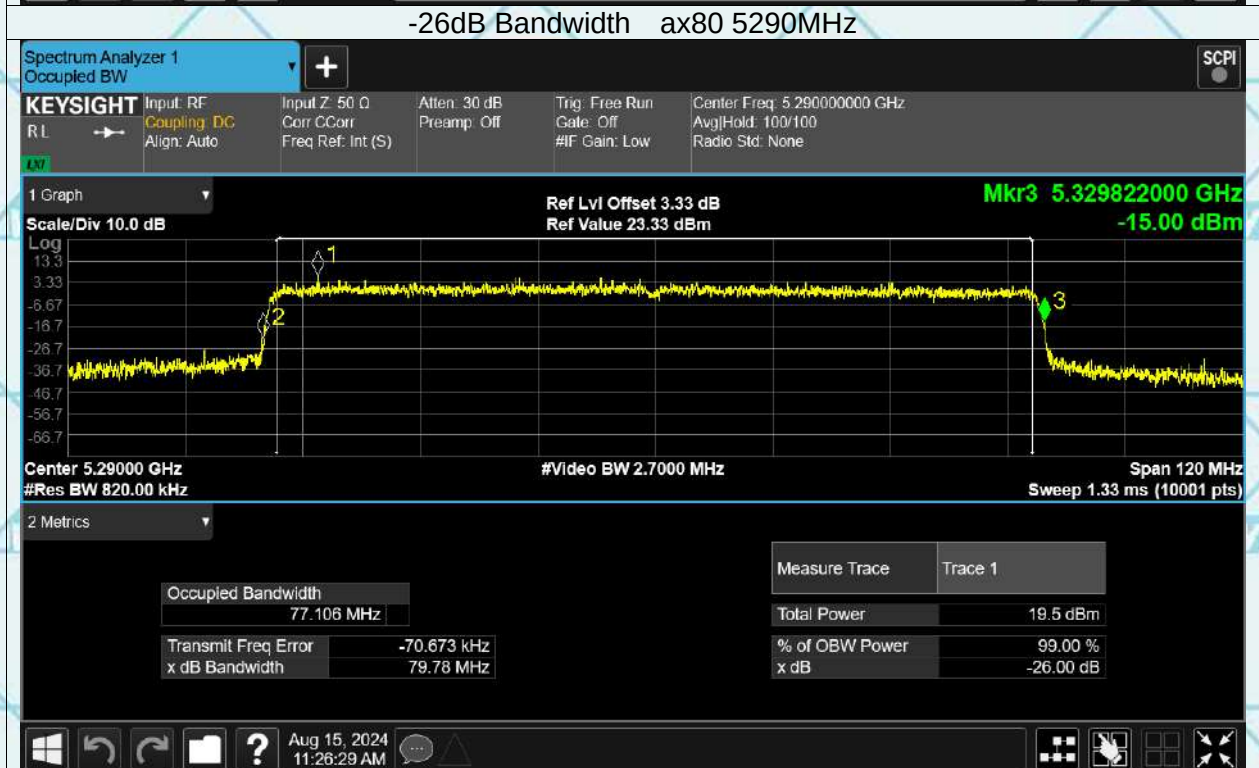
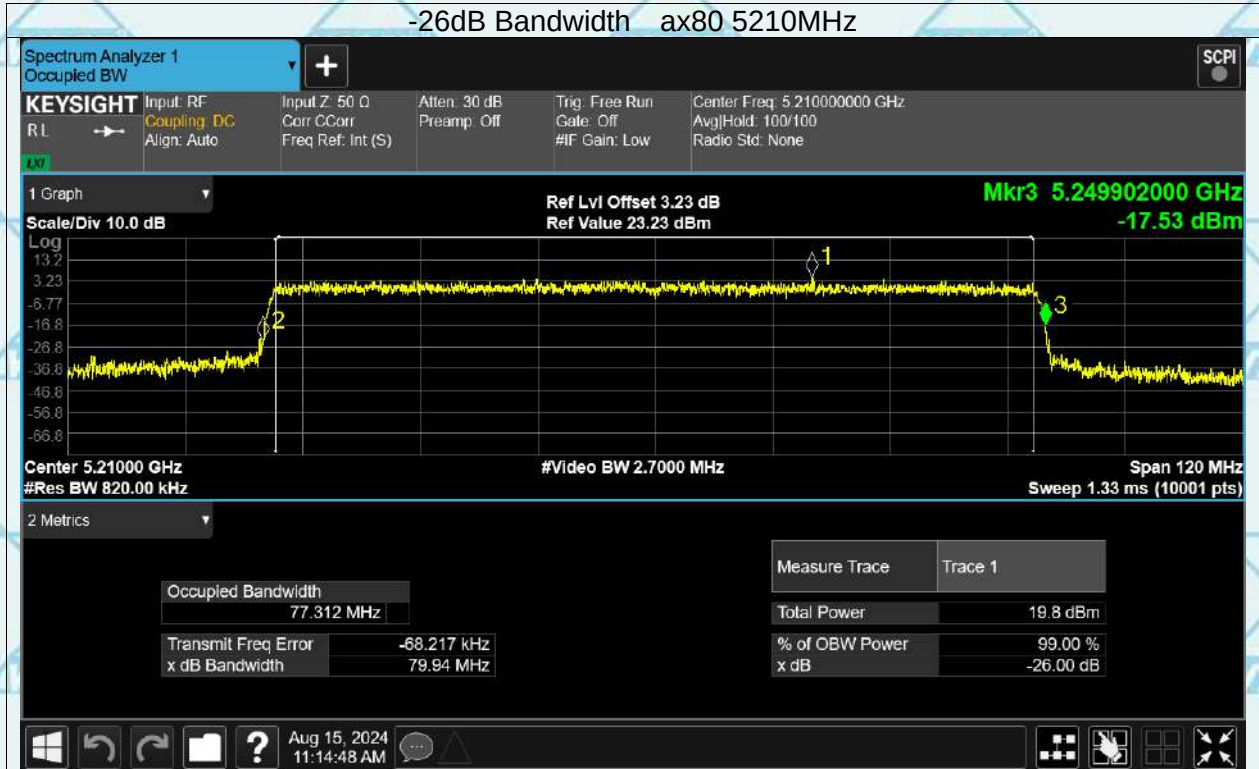




Report No.: WSCT-A2LA-R&E240300015A-Wi-Fi2

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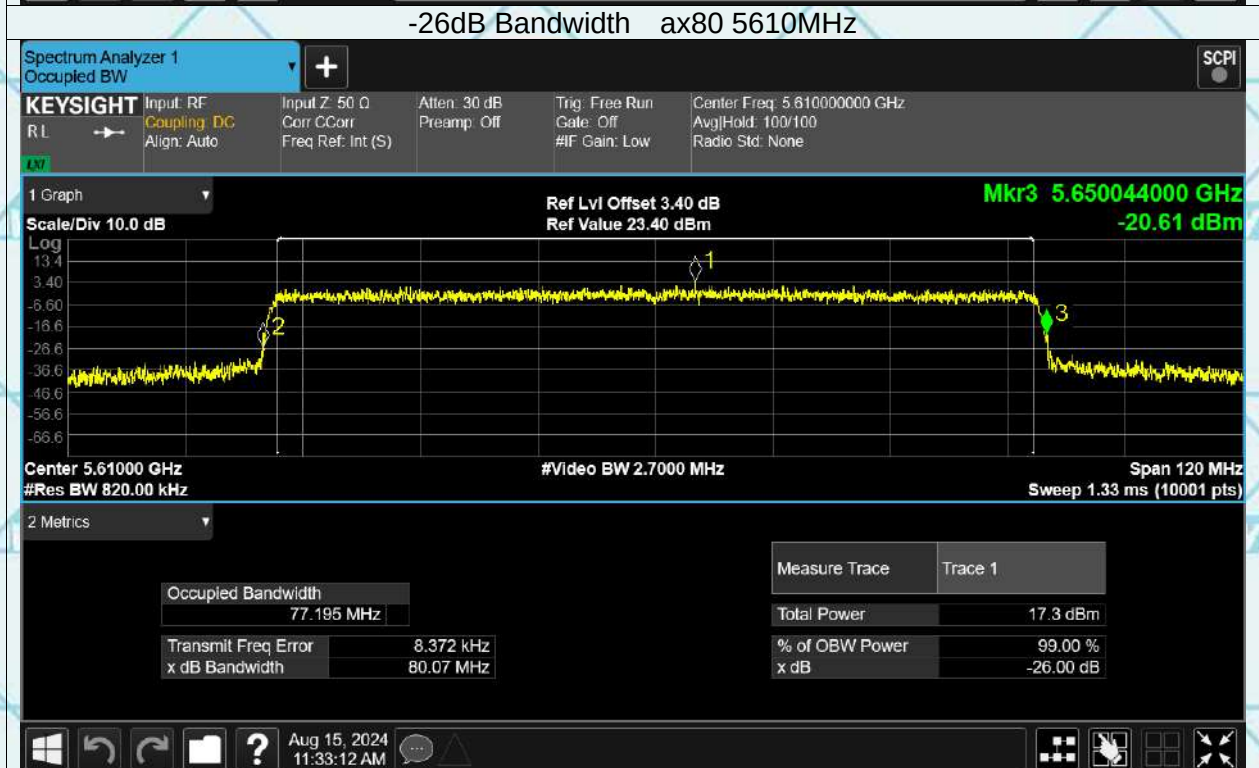
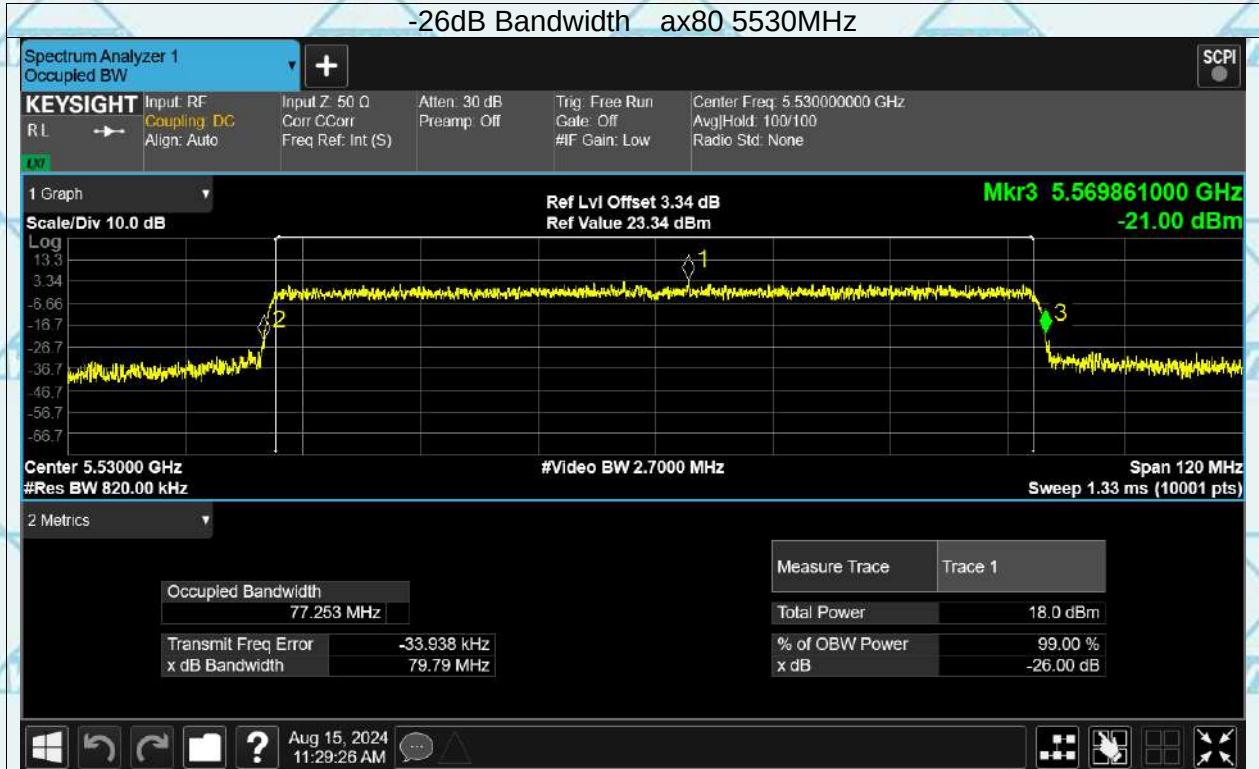




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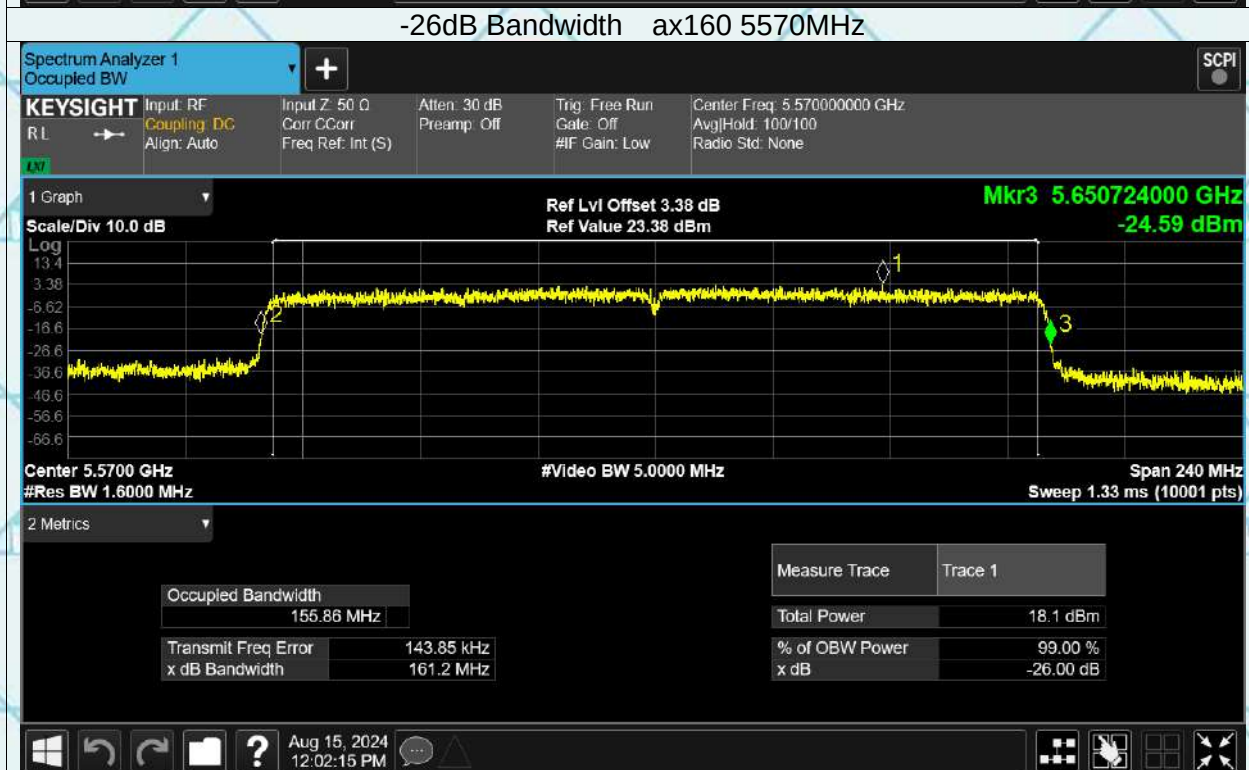
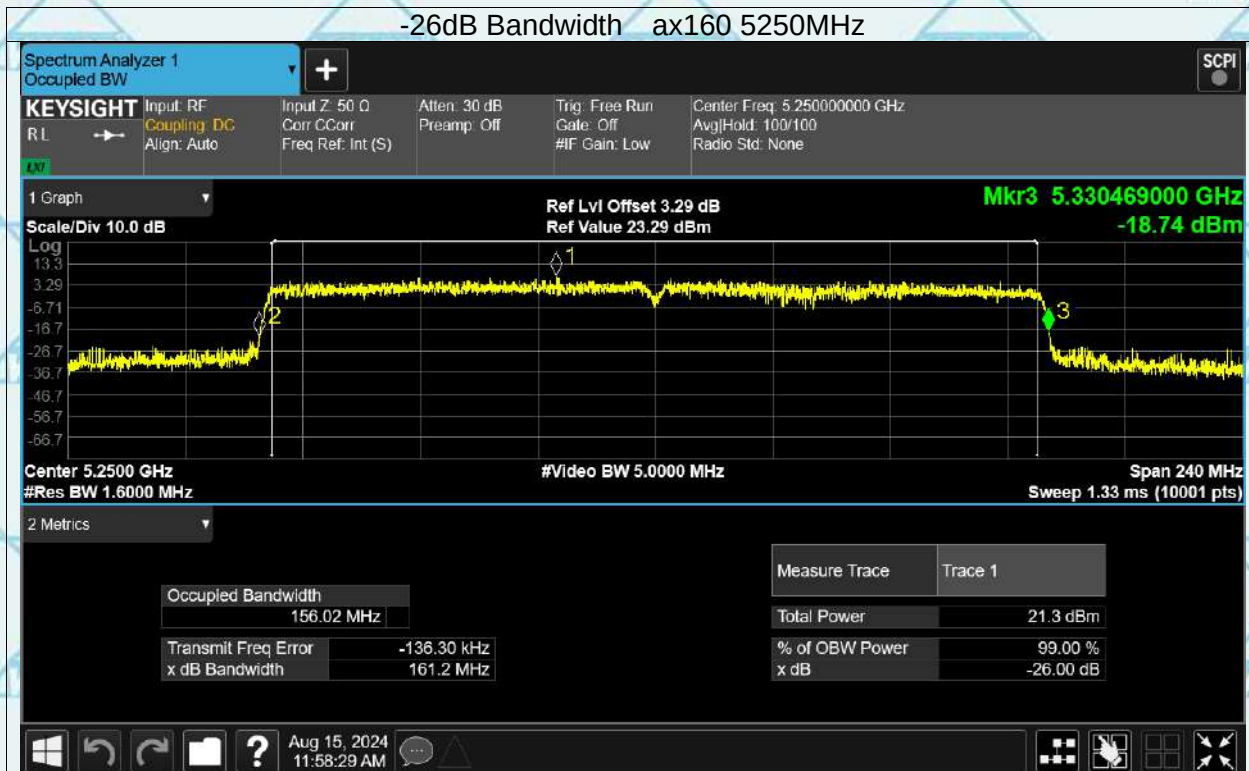




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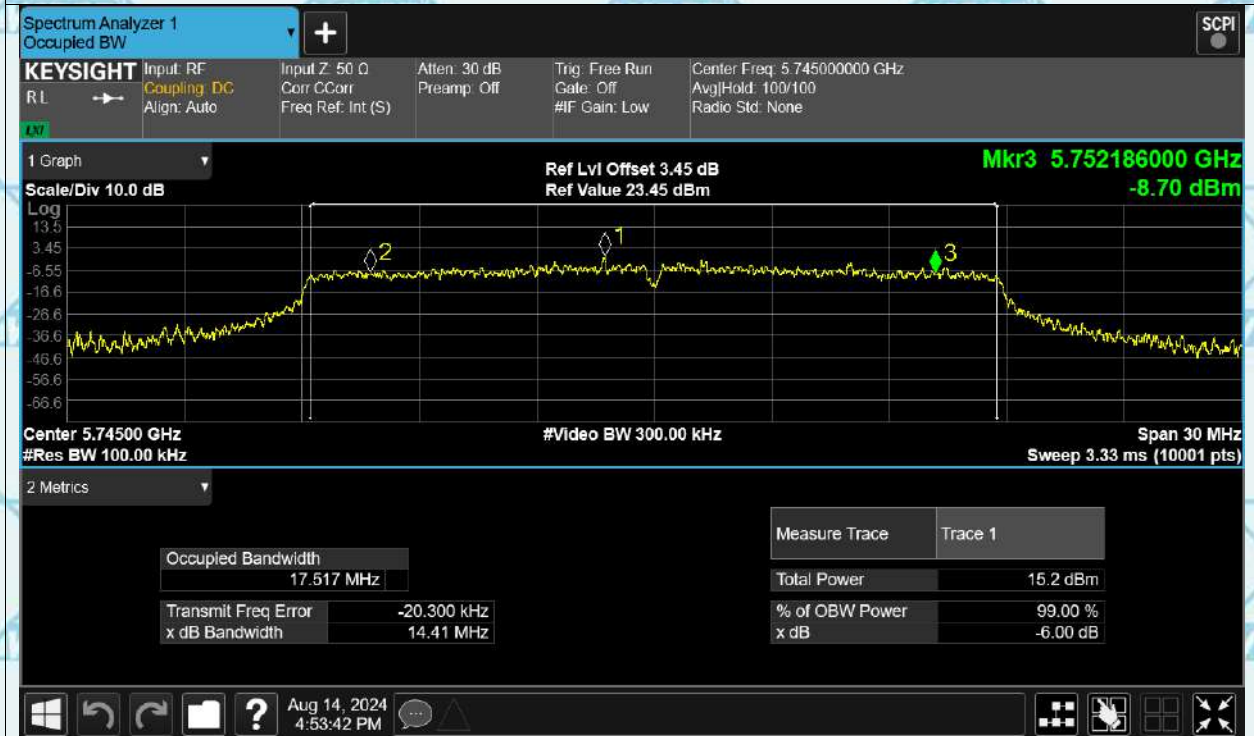


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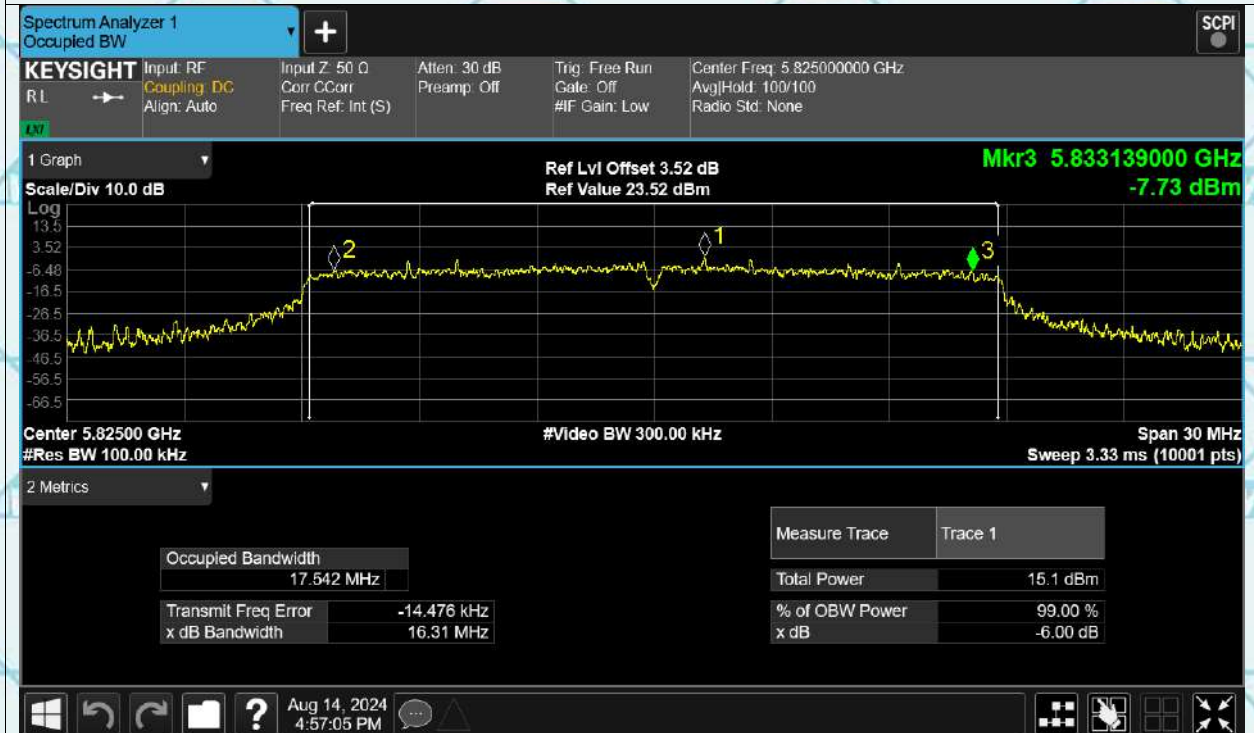
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-6dB Bandwidth n20 5745MHz



-6dB Bandwidth n20 5825MHz

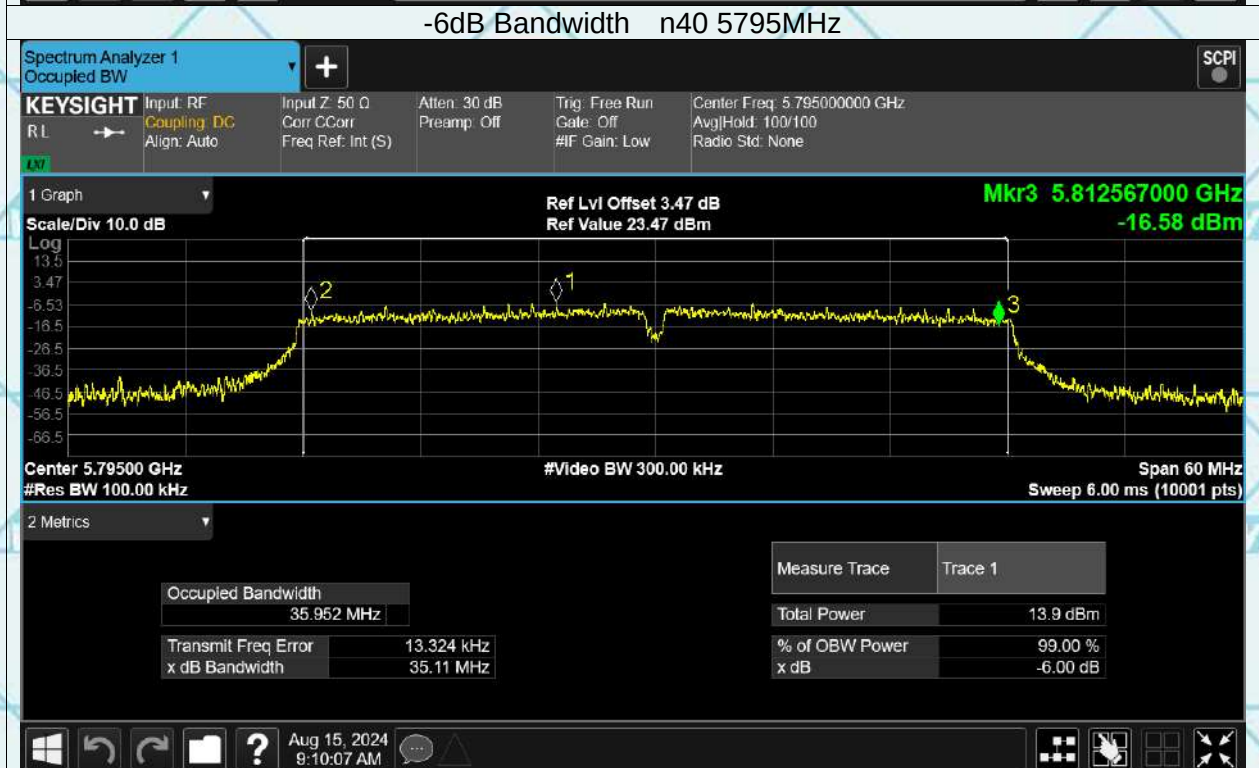
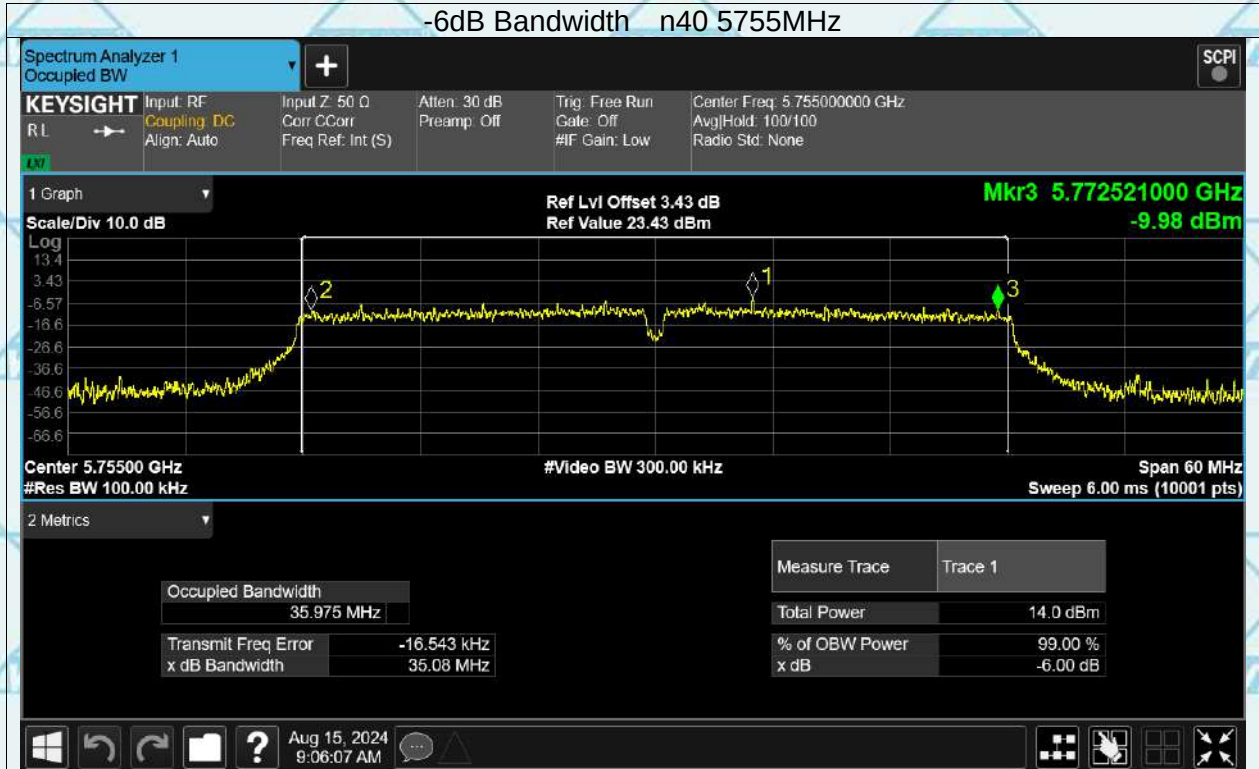




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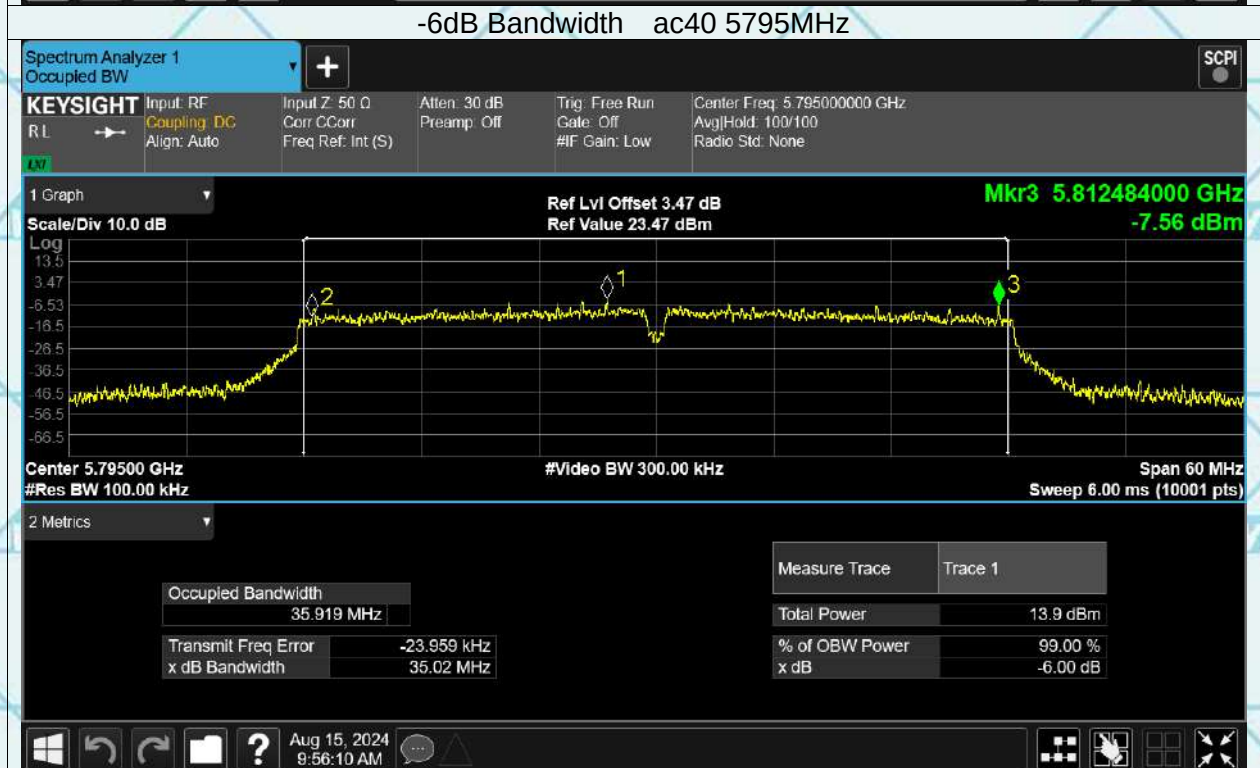
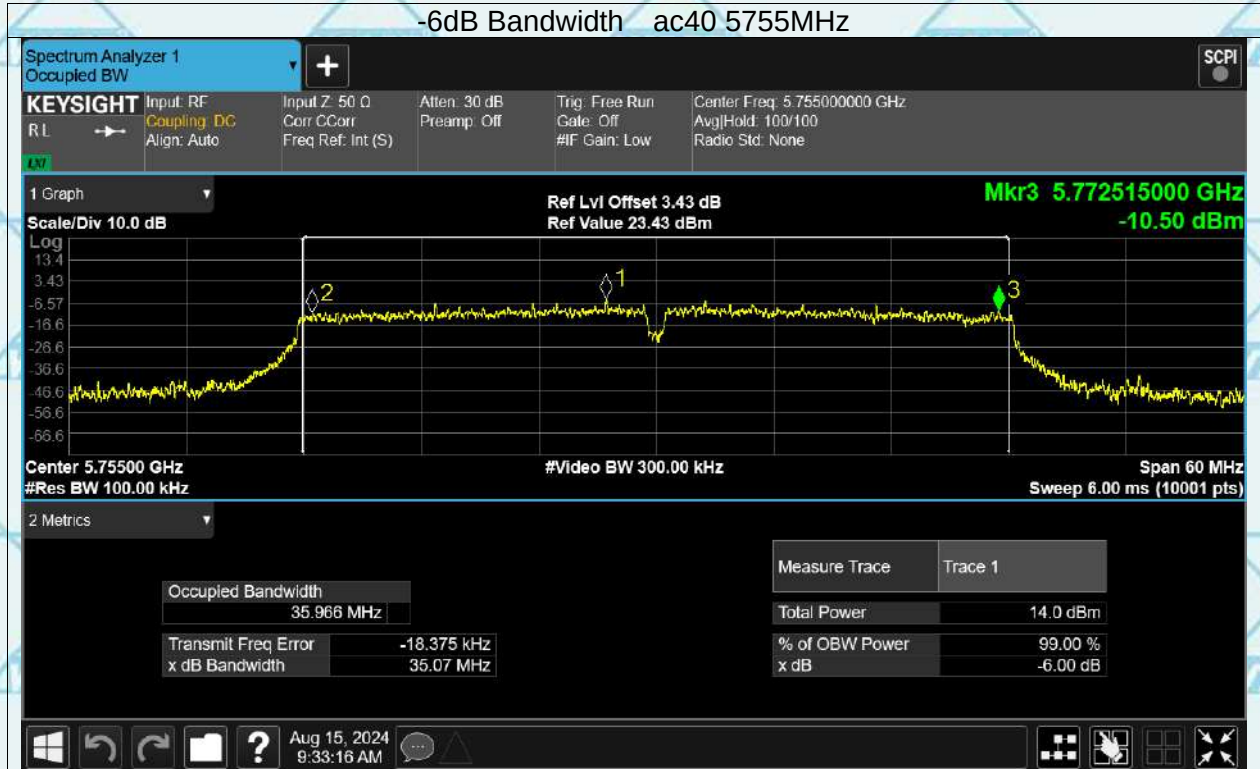
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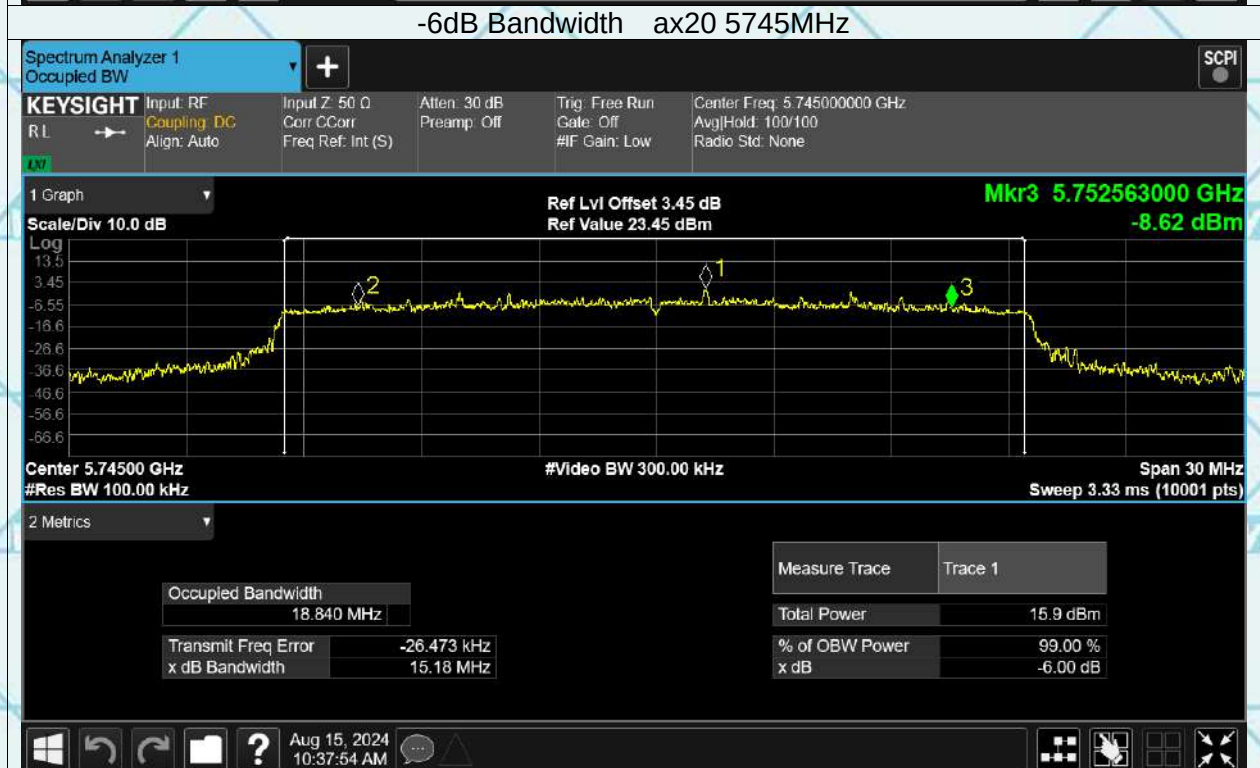
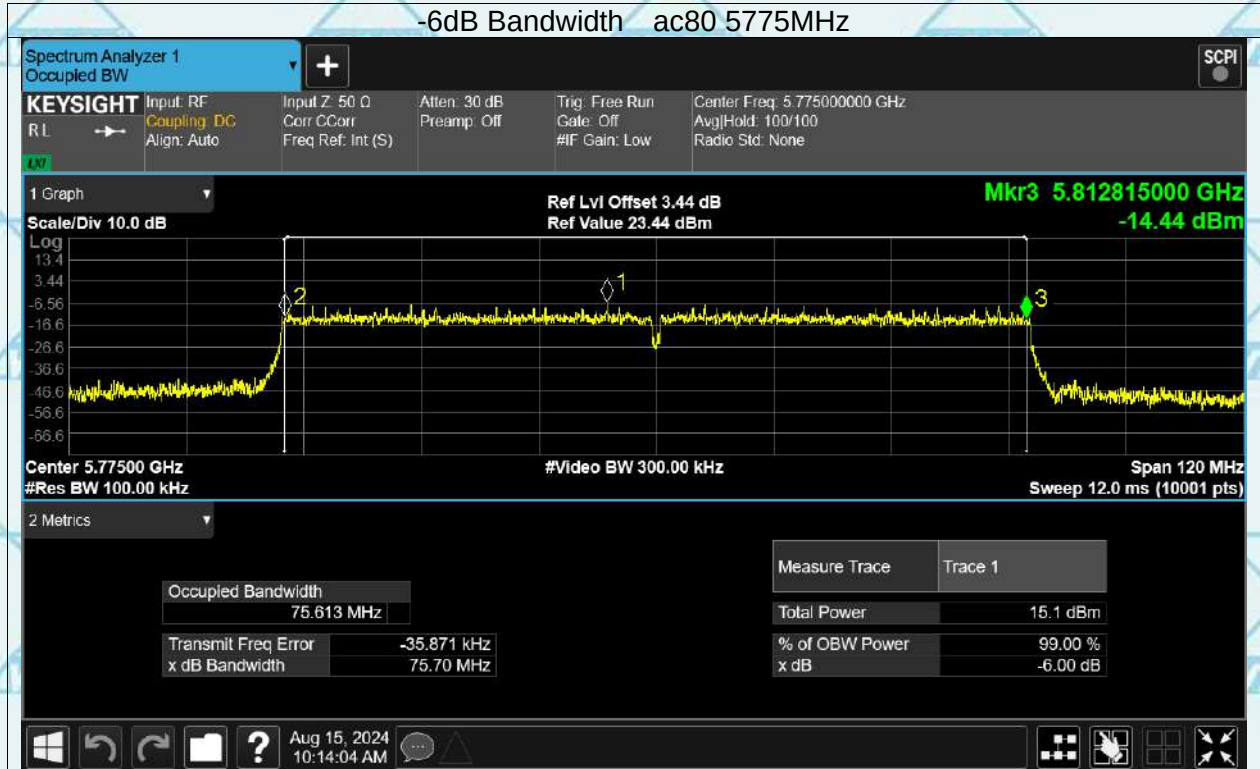
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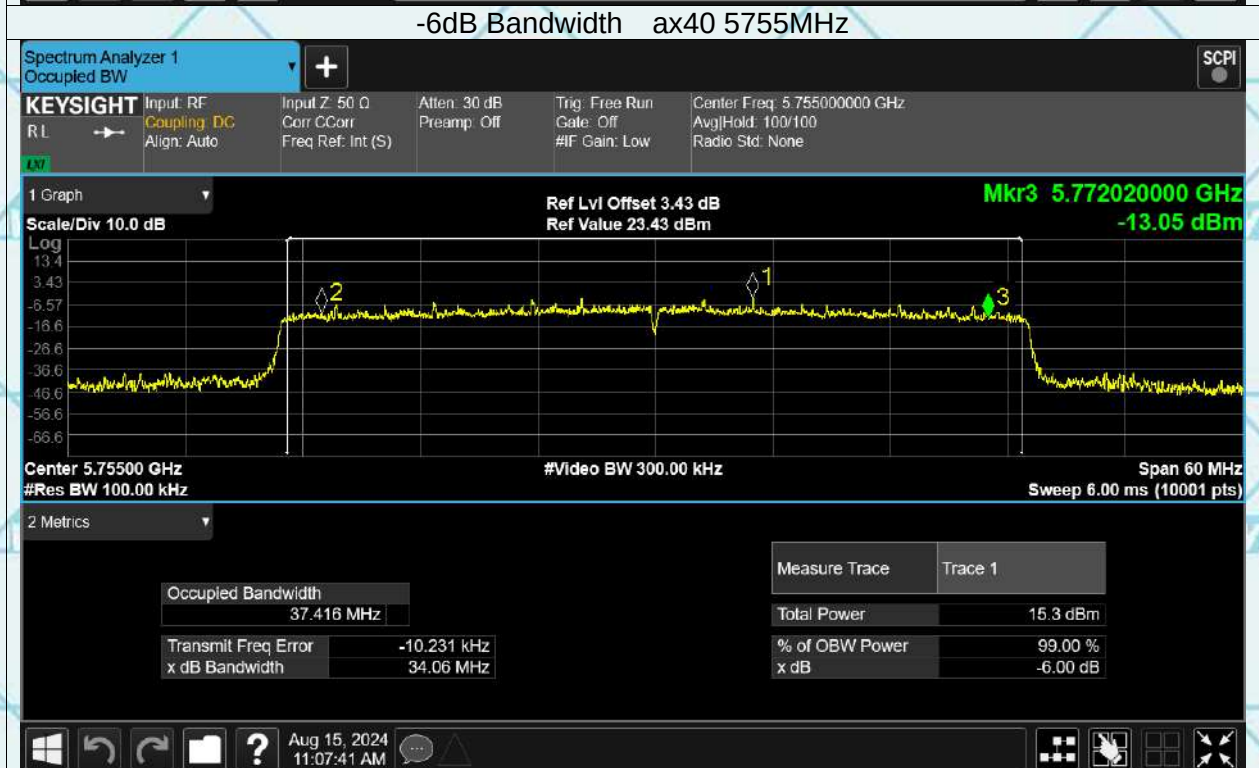
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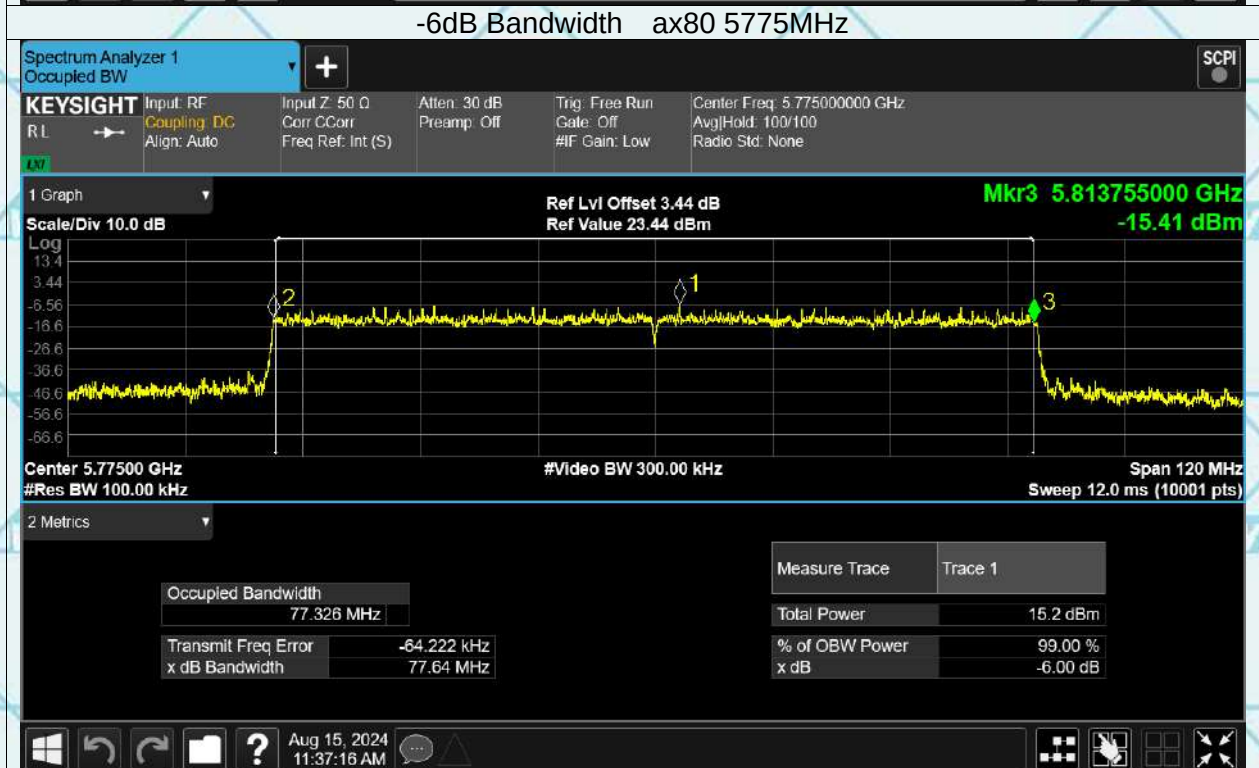
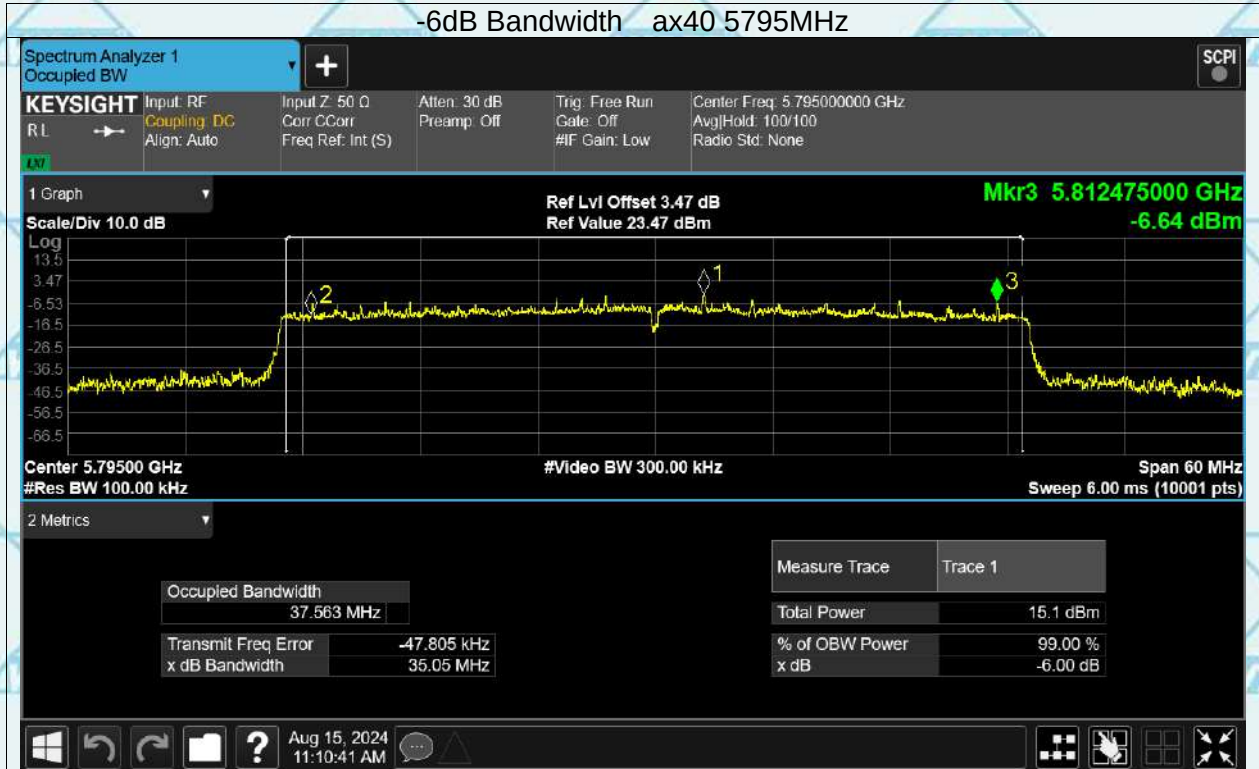




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7.5 AVERAGE POWER

- (i) If all antennas have the same gain, G_{ANT} :
Directional gain = $G_{ANT} + 10 \log(N_{ANT}/N_{SS})$ dBi, where N_{SS} = the number of independent spatial streams of data and G_{ANT} is the antenna gain in dBi. (This formula can also be applied when antennas have different gains if the highest antenna gain is substituted for G_{ANT} .)
- (ii) If antenna gains are not equal and each transmit antenna is driven by only one spatial stream, directional gain may be calculated by either of the following two formulas.
- Directional gain* = $G_{ANT\ MAX} + 10 \log(N_{ANT}/N_{SS})$ dBi, where N_{SS} = the number of independent spatial streams of data and $G_{ANT\ MAX}$ is the gain of the antenna having the highest gain (in dBi).

Or,

$$\bullet \text{ Directional Gain} = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$$

where

Each antenna is driven by no more than one spatial stream;

N_{SS} = the number of independent spatial streams of data;

N_{ANT} = the total number of antennas

$g_{j,k} = 10^{G_k/20}$ if the k th antenna is being fed by spatial stream j , or zero if it is not;
 G_k is the gain in dBi of the k th antenna.

For power measurements on IEEE 802.11 devices, 1,2

Array Gain = 0 dB (i.e., no array gain) for $N_{ANT} \leq 4$;

Array Gain = 0 dB (i.e., no array gain) for channel widths ≥ 40 MHz for any N_{ANT} ;

Array Gain = $5 \log(N_{ANT}/N_{SS})$ dB or 3 dB, whichever is less, for 20-MHz channel widths with $N_{ANT} \geq 5$.

Note: $N_{ANT}=2$, satisfy the condition $N_{ANT} \leq 4$, so Array gain=0dB, Directional gain= G_{ANT} +Array gain=2.91dBi+0dB=2.91dBi, not more than 6, so the power limit is unchanged.



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Product	: EUT-Sample	Test Mode	: See Section 3.4
Test Item	: Average Power	Temperature	: 25 °C
Test Voltage	: DC 11.61V	Humidity	: 56%RH
Test Result	: PASS		

MAIN Ant1

Mode	Frequency (MHz)	Total Power (dBm)	Limit (dBm)	Verdict
a	5180	12.68	24	Pass
a	5240	13.19	24	Pass
a	5260	13.36	24	Pass
a	5320	12.11	24	Pass
a	5500	12.67	24	Pass
a	5700	13.14	24	Pass
a	5745	13.32	30	Pass
a	5825	12.72	30	Pass
n20	5180	12.1	24	Pass
n20	5240	11.8	24	Pass
n20	5260	11.11	24	Pass
n20	5320	11.61	24	Pass
n20	5500	11.36	24	Pass
n20	5700	12.16	24	Pass
n20	5745	12.67	30	Pass
n20	5825	11.49	30	Pass
n40	5190	11.48	24	Pass
n40	5230	11.08	24	Pass
n40	5270	11.07	24	Pass
n40	5310	11.44	24	Pass
n40	5510	9.88	24	Pass
n40	5670	11.59	24	Pass
n40	5755	11.49	30	Pass
n40	5795	11.51	30	Pass
ac20	5180	12.25	24	Pass
ac20	5240	11.95	24	Pass
ac20	5260	12.79	24	Pass
ac20	5320	12.12	24	Pass
ac20	5500	12.27	24	Pass
ac20	5700	13.1	24	Pass
ac20	5745	12.95	30	Pass
ac20	5825	12.32	30	Pass
ac40	5190	11.43	24	Pass
ac40	5230	11.46	24	Pass
ac40	5270	11.33	24	Pass
ac40	5310	10.89	24	Pass
ac40	5510	11.13	24	Pass
ac40	5670	10.32	24	Pass
ac40	5755	11.49	30	Pass
ac40	5795	12.29	30	Pass
ac80	5210	11.1	24	Pass
ac80	5290	12.42	24	Pass
ac80	5530	12.26	24	Pass
ac80	5610	11.4	24	Pass
ac80	5775	12.97	30	Pass
ax20	5180	10.9	24	Pass
ax20	5240	11.16	24	Pass
ax20	5260	10.78	24	Pass
ax20	5320	11.33	24	Pass
ax20	5500	10.94	24	Pass
ax20	5700	11.9	24	Pass
ax20	5745	10.98	30	Pass
ax20	5825	10.98	30	Pass
ax40	5190	11.61	24	Pass
ax40	5230	12.01	24	Pass
ax40	5270	12.28	24	Pass
ax40	5310	11.68	24	Pass
ax40	5510	11.28	24	Pass
ax40	5670	12.47	24	Pass





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ax40	5755	11.62	30	Pass
ax40	5795	11.61	30	Pass
ax80	5210	11.58	24	Pass
ax80	5290	11.9	24	Pass
ax80	5530	12.6	24	Pass
ax80	5610	12.01	24	Pass
ax80	5775	11.81	30	Pass
ax160	5250	11.57	24	Pass
ax160	5570	12.39	24	Pass

AUX Ant2

Mode	Frequency (MHz)	Total Power (dBm)	Limit (dBm)	Verdict
a	5180	11.78	24	Pass
a	5240	11.58	24	Pass
a	5260	11.67	24	Pass
a	5320	11.4	24	Pass
a	5500	11.1	24	Pass
a	5700	11.87	24	Pass
a	5745	12.23	30	Pass
a	5825	11.58	30	Pass
n20	5180	10.98	24	Pass
n20	5240	10.12	24	Pass
n20	5260	10.62	24	Pass
n20	5320	10.32	24	Pass
n20	5500	10.39	24	Pass
n20	5700	10.32	24	Pass
n20	5745	10.58	30	Pass
n20	5825	11.09	30	Pass
n40	5190	11.72	24	Pass
n40	5230	11.02	24	Pass
n40	5270	11.59	24	Pass
n40	5310	10.21	24	Pass
n40	5510	10.68	24	Pass
n40	5670	10.89	24	Pass
n40	5755	10.84	30	Pass
n40	5795	11.37	30	Pass
ac20	5180	11.58	24	Pass
ac20	5240	11.63	24	Pass
ac20	5260	12.16	24	Pass
ac20	5320	11.64	24	Pass
ac20	5500	11.86	24	Pass
ac20	5700	12.52	24	Pass
ac20	5745	11.31	30	Pass
ac20	5825	11.38	30	Pass
ac40	5190	11.17	24	Pass
ac40	5230	9.99	24	Pass
ac40	5270	10.42	24	Pass
ac40	5310	9.83	24	Pass
ac40	5510	10.22	24	Pass
ac40	5670	10.49	24	Pass
ac40	5755	10.62	30	Pass
ac40	5795	11.57	30	Pass
ac80	5210	11.98	24	Pass
ac80	5290	11.58	24	Pass
ac80	5530	10.87	24	Pass
ac80	5610	11.62	24	Pass
ac80	5775	11.4	30	Pass
ax20	5180	10.75	24	Pass
ax20	5240	9.72	24	Pass
ax20	5260	10.4	24	Pass
ax20	5320	9.6	24	Pass
ax20	5500	9.77	24	Pass
ax20	5700	10.37	24	Pass
ax20	5745	10.59	30	Pass
ax20	5825	10.49	30	Pass
ax40	5190	10.97	24	Pass
ax40	5230	11.32	24	Pass
ax40	5270	11.32	24	Pass
ax40	5310	10.86	24	Pass
ax40	5510	10.5	24	Pass





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ax40	5670	11.31	24	Pass
ax40	5755	11.56	30	Pass
ax40	5795	12.24	30	Pass
ax80	5210	10.79	24	Pass
ax80	5290	10.7	24	Pass
ax80	5530	11.05	24	Pass
ax80	5610	10.55	24	Pass
ax80	5775	11.31	30	Pass
ax160	5250	9.78	24	Pass
ax160	5570	10.58	24	Pass

MIMO Mode

Mode	Frequency (MHz)	Total Power (dBm)	Limit (dBm)	Verdict
n20	5180	14.59	24	Pass
n20	5240	14.05	24	Pass
n20	5260	13.88	24	Pass
n20	5320	14.02	24	Pass
n20	5500	13.91	24	Pass
n20	5700	14.35	24	Pass
n20	5745	14.76	30	Pass
n20	5825	14.30	30	Pass
n40	5190	14.61	24	Pass
n40	5230	14.06	24	Pass
n40	5270	14.35	24	Pass
n40	5310	13.88	24	Pass
n40	5510	13.31	24	Pass
n40	5670	14.26	24	Pass
n40	5755	14.19	30	Pass
n40	5795	14.45	30	Pass
ac20	5180	14.94	24	Pass
ac20	5240	14.80	24	Pass
ac20	5260	15.50	24	Pass
ac20	5320	14.90	24	Pass
ac20	5500	15.08	24	Pass
ac20	5700	15.83	24	Pass
ac20	5745	15.22	30	Pass
ac20	5825	14.89	30	Pass
ac40	5190	14.31	24	Pass
ac40	5230	13.80	24	Pass
ac40	5270	13.91	24	Pass
ac40	5310	13.40	24	Pass
ac40	5510	13.71	24	Pass
ac40	5670	13.42	24	Pass
ac40	5755	14.09	30	Pass
ac40	5795	14.96	30	Pass
ac80	5210	14.57	24	Pass
ac80	5290	15.03	24	Pass
ac80	5530	14.63	24	Pass
ac80	5610	14.52	24	Pass
ac80	5775	15.27	30	Pass
ax20	5180	13.84	24	Pass
ax20	5240	13.51	24	Pass
ax20	5260	13.60	24	Pass
ax20	5320	13.56	24	Pass
ax20	5500	13.40	24	Pass
ax20	5700	14.21	24	Pass
ax20	5745	13.80	30	Pass
ax20	5825	13.75	30	Pass
ax40	5190	14.31	24	Pass
ax40	5230	14.69	24	Pass
ax40	5270	14.84	24	Pass
ax40	5310	14.30	24	Pass
ax40	5510	13.92	24	Pass
ax40	5670	14.94	24	Pass
ax40	5755	14.60	30	Pass
ax40	5795	14.95	30	Pass
ax80	5210	14.21	24	Pass
ax80	5290	14.35	24	Pass
ax80	5530	14.90	24	Pass
ax80	5610	14.35	24	Pass





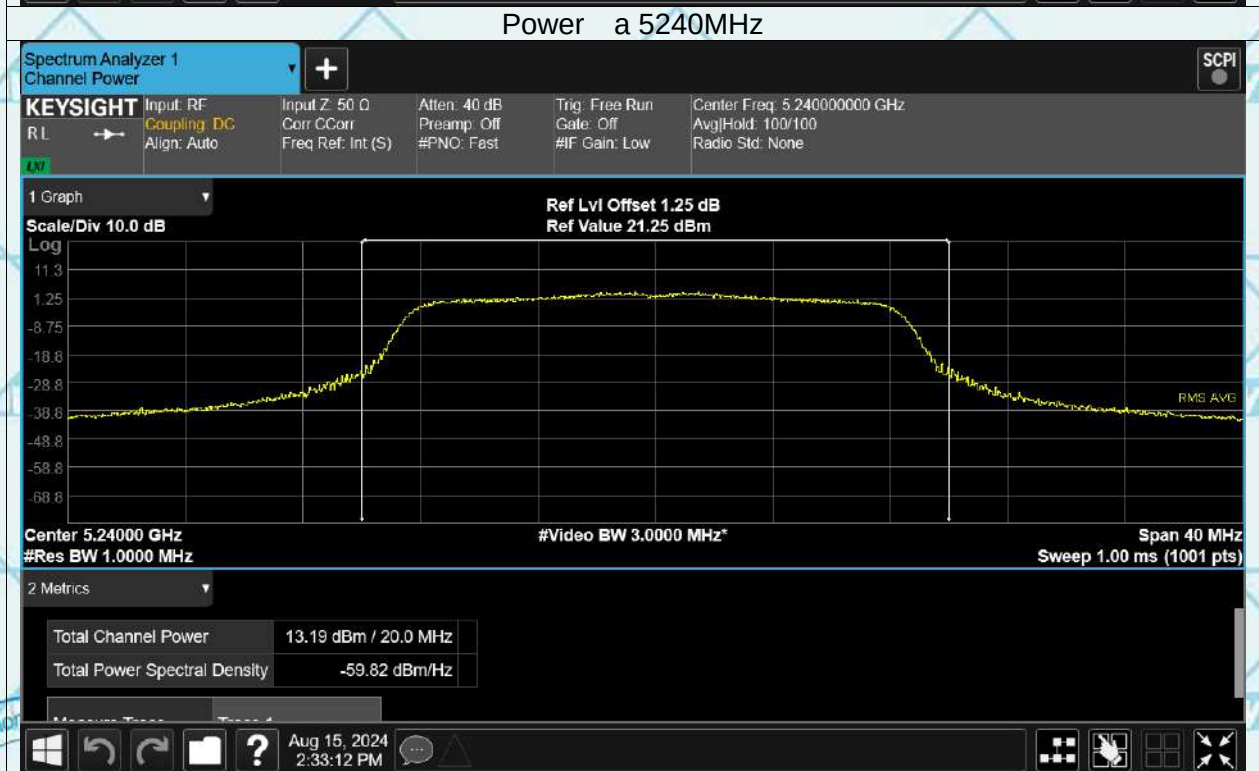
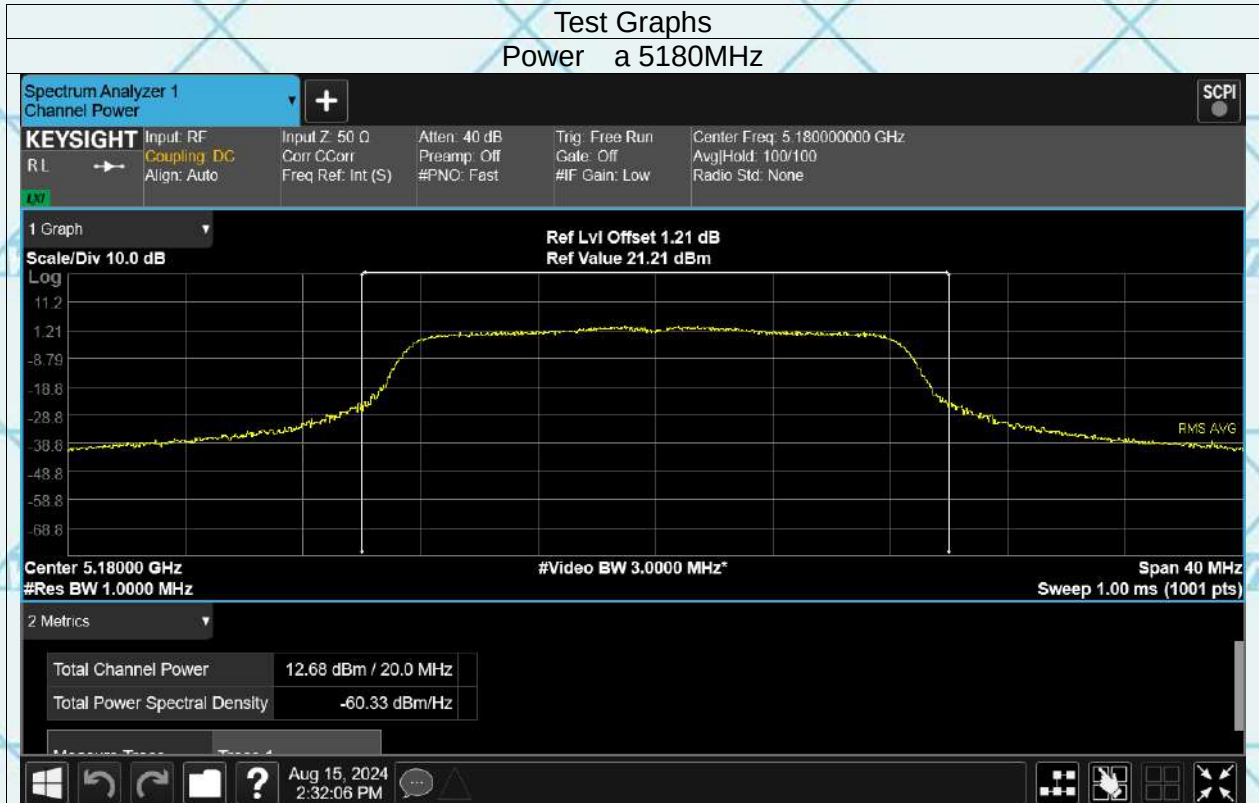
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ax80	5775	14.58	30	Pass
ax160	5250	13.78	24	Pass
ax160	5570	14.59	24	Pass

MAIN Ant1





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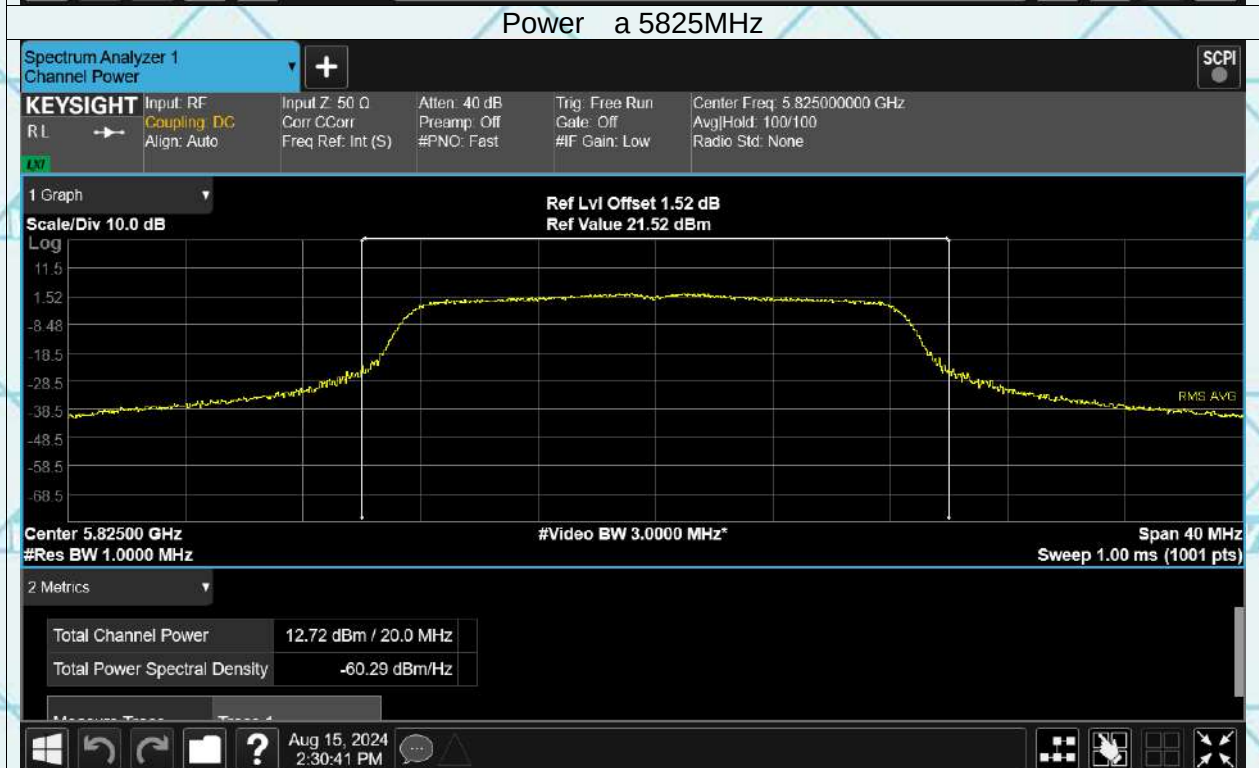




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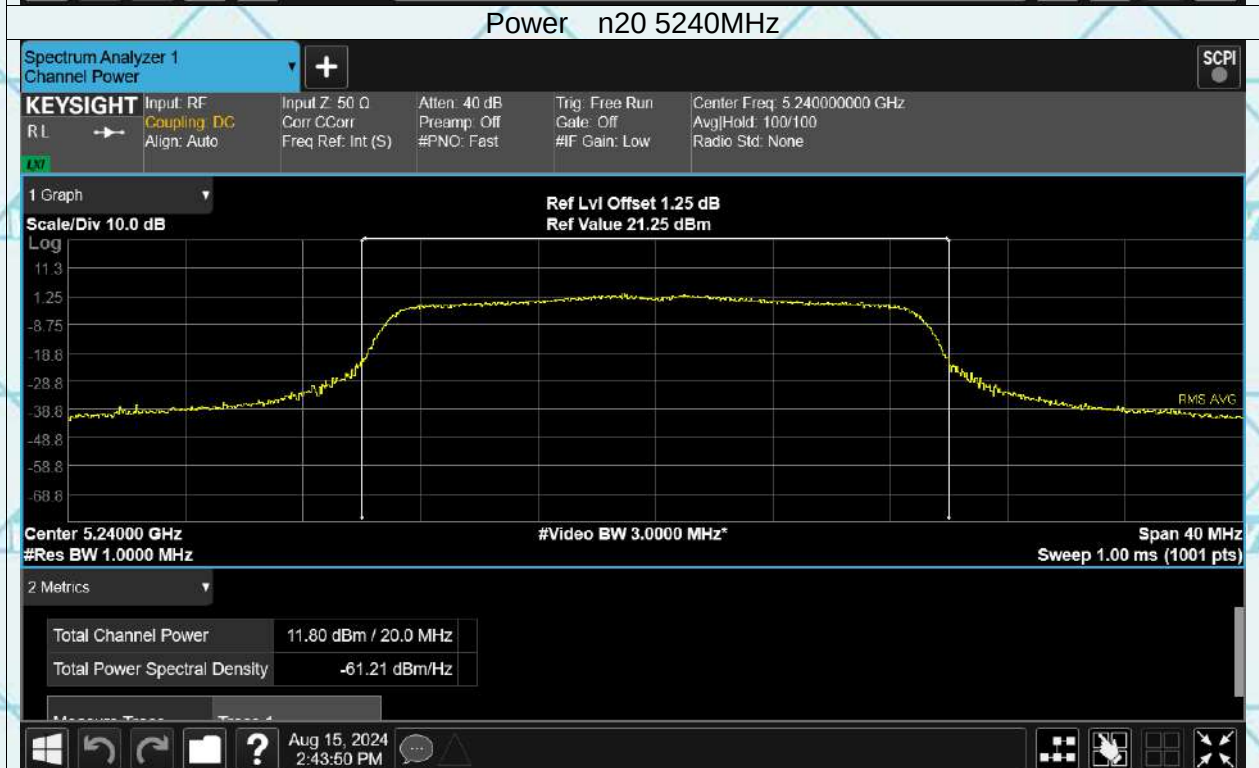




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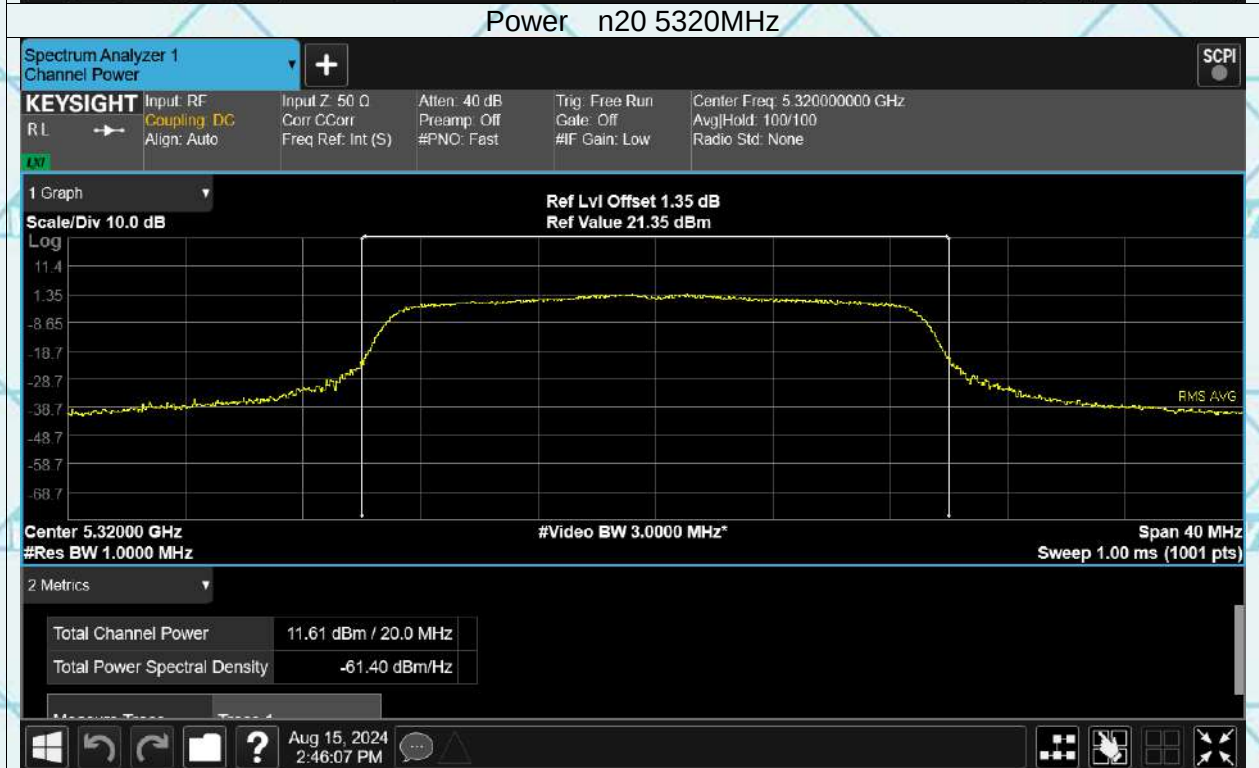




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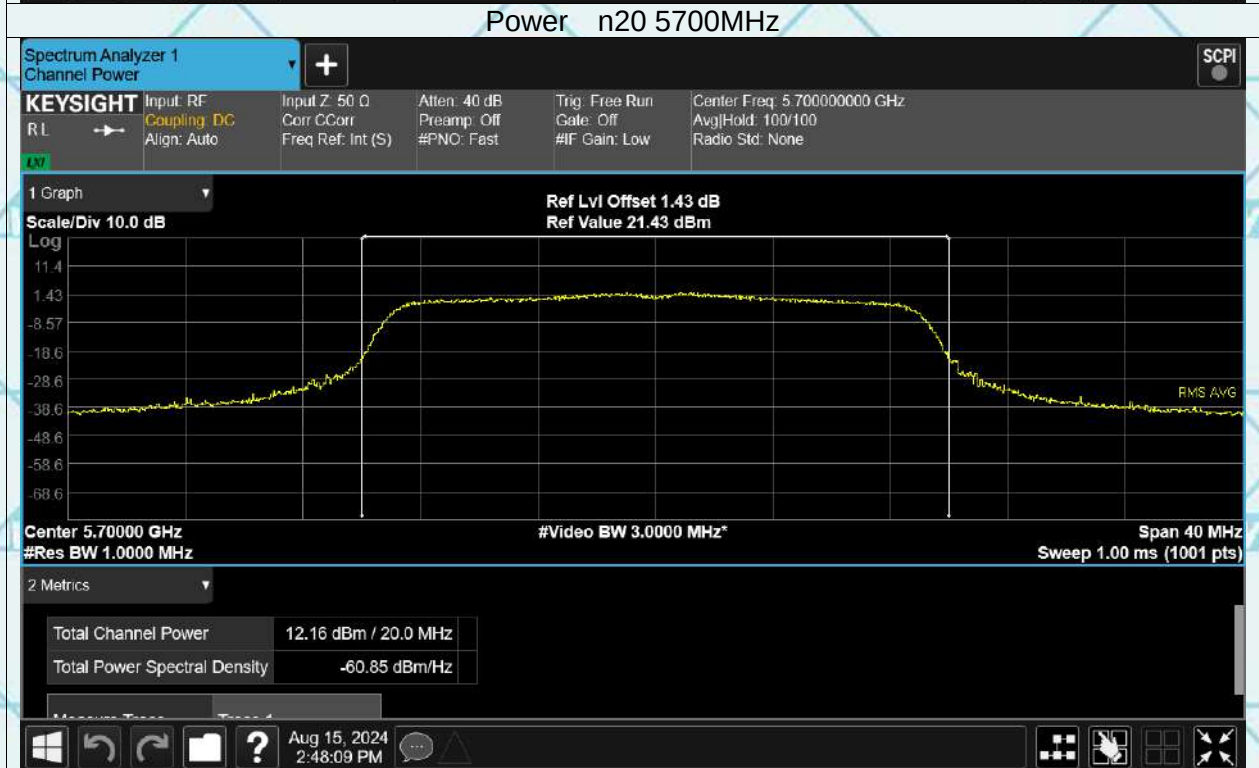




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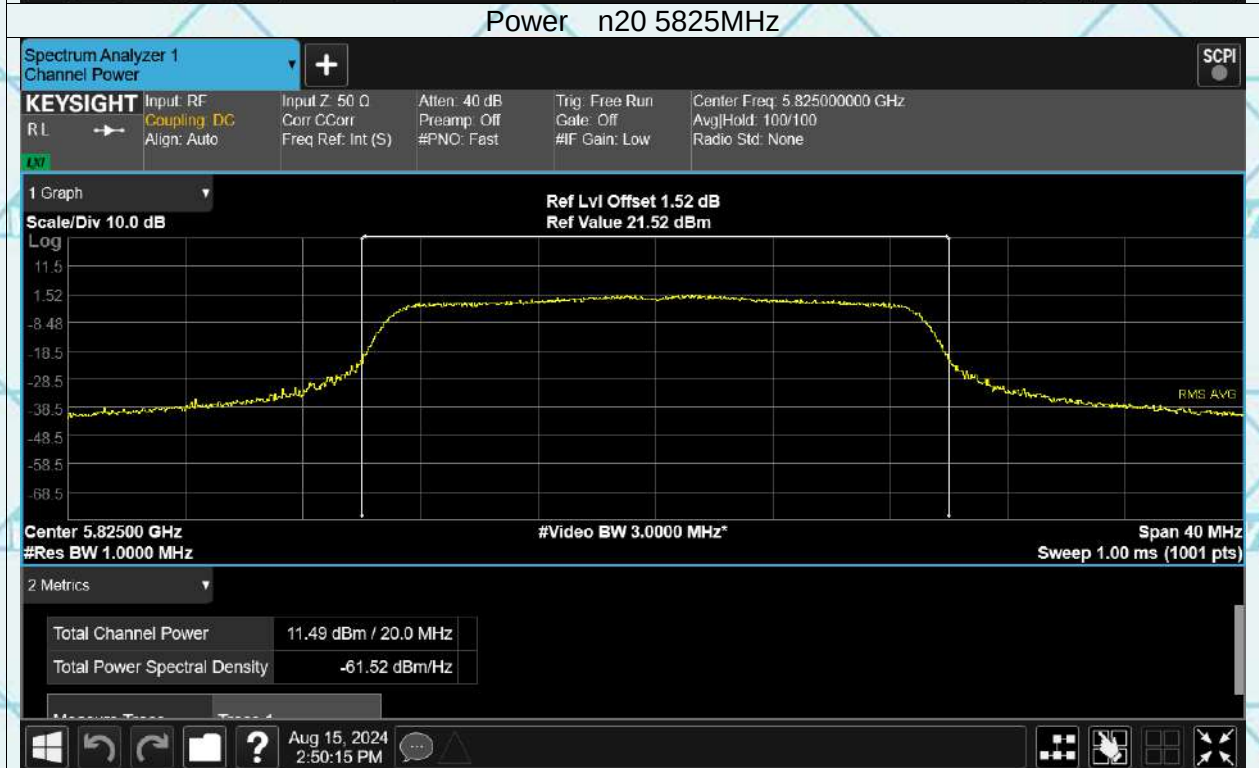




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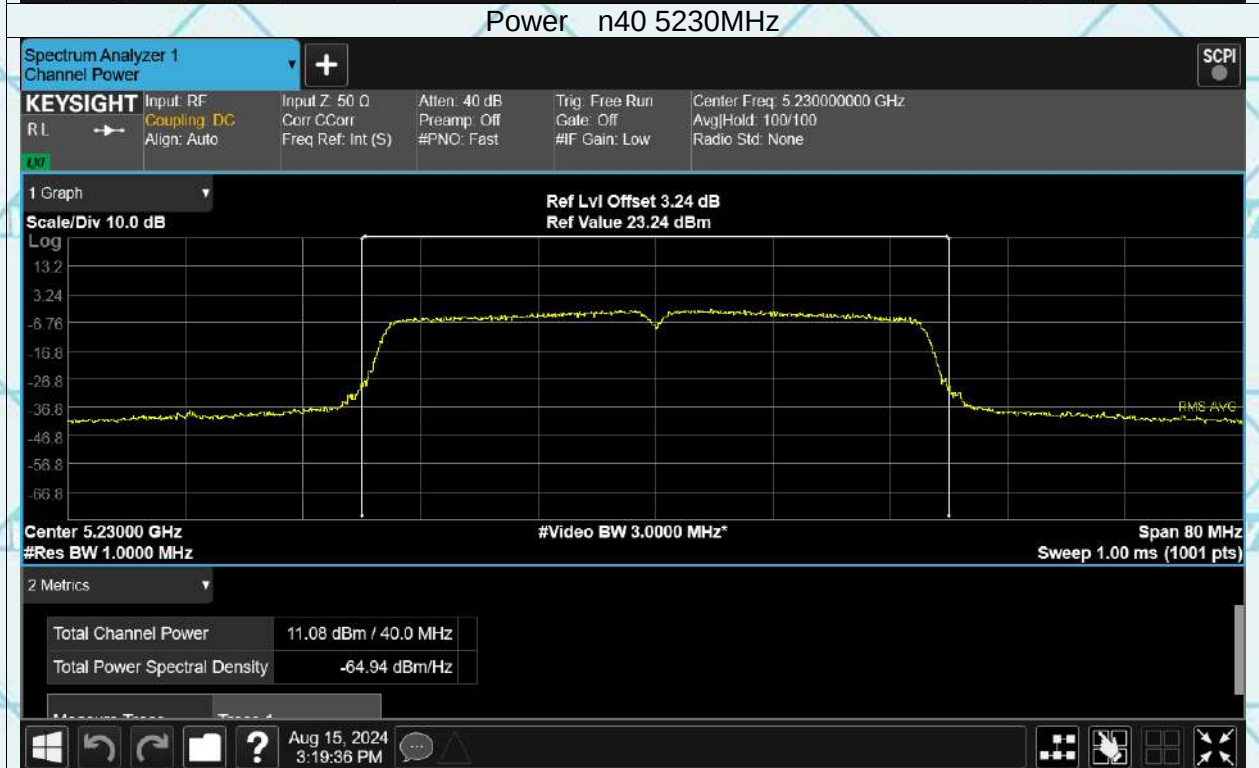
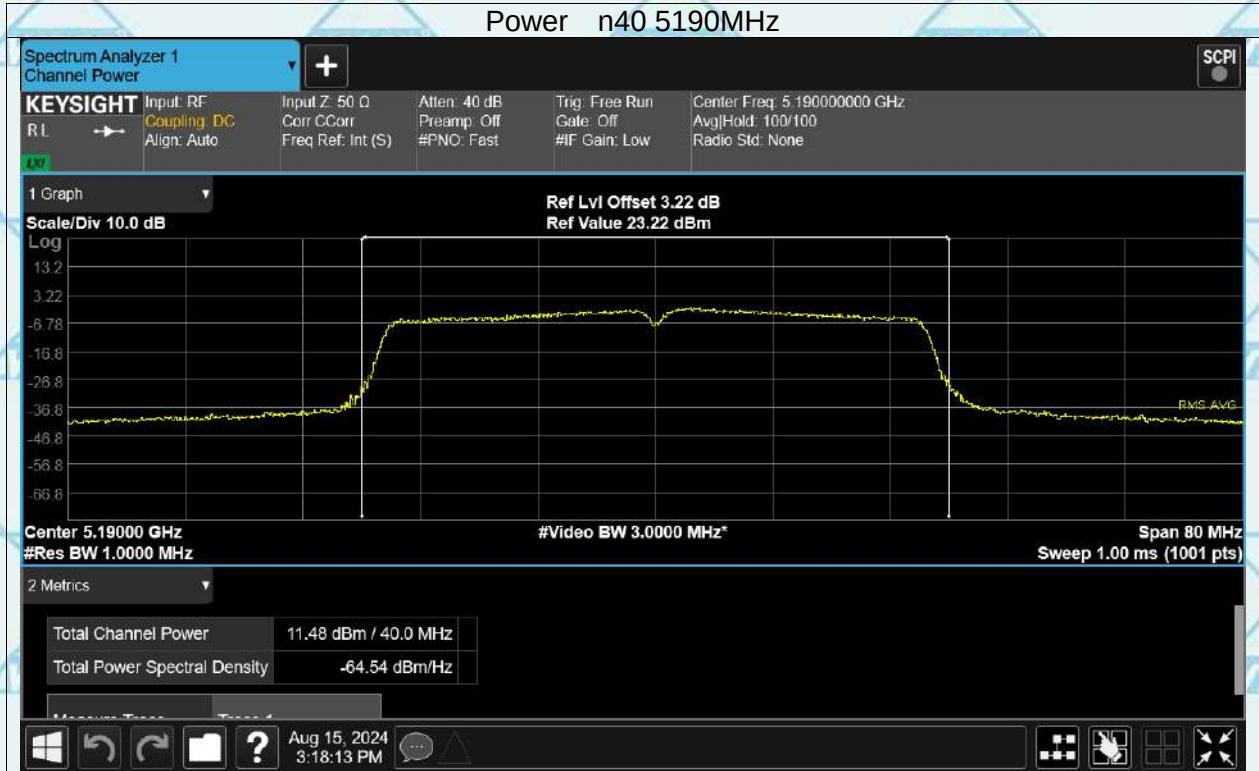




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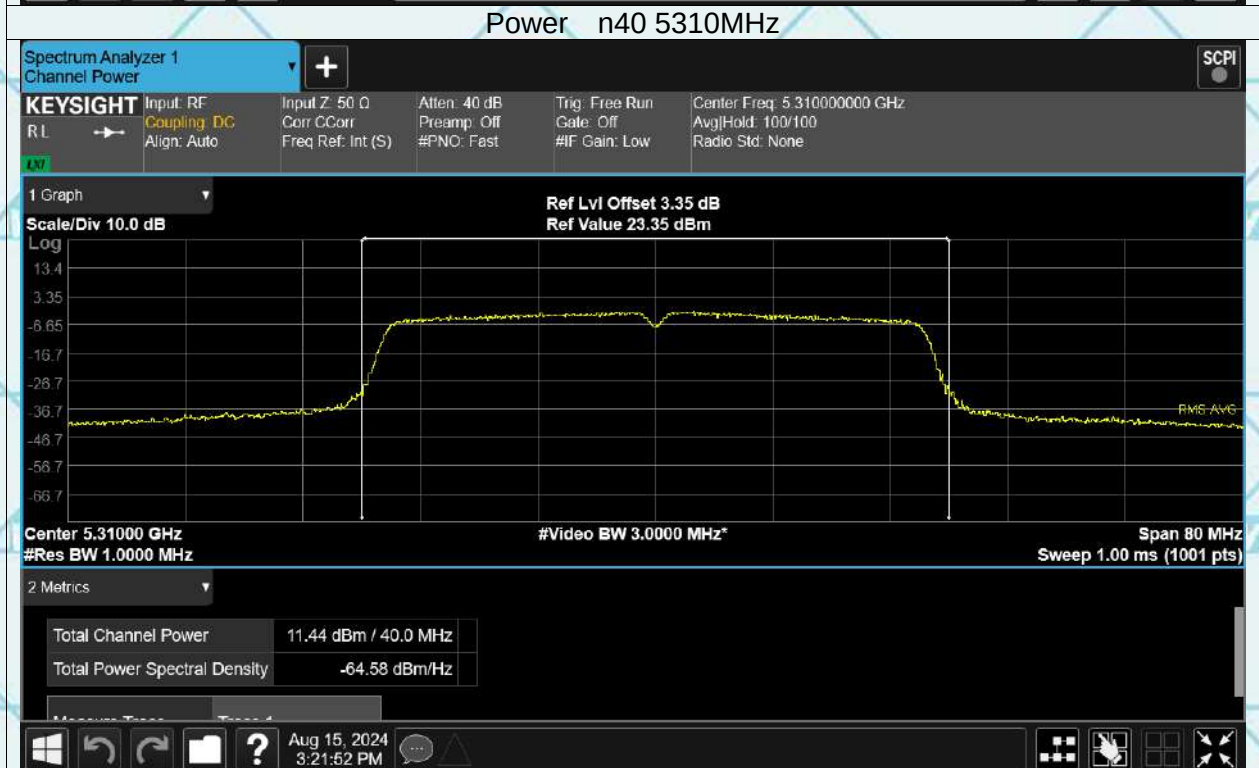
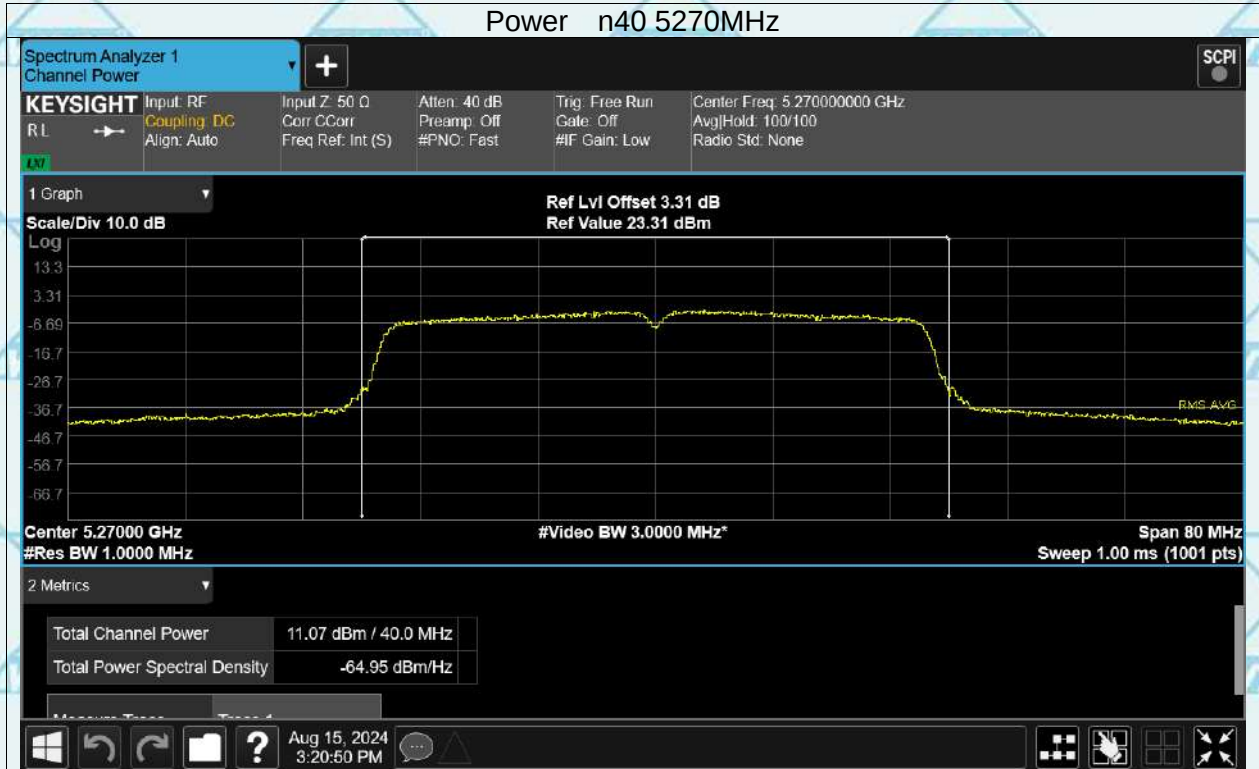




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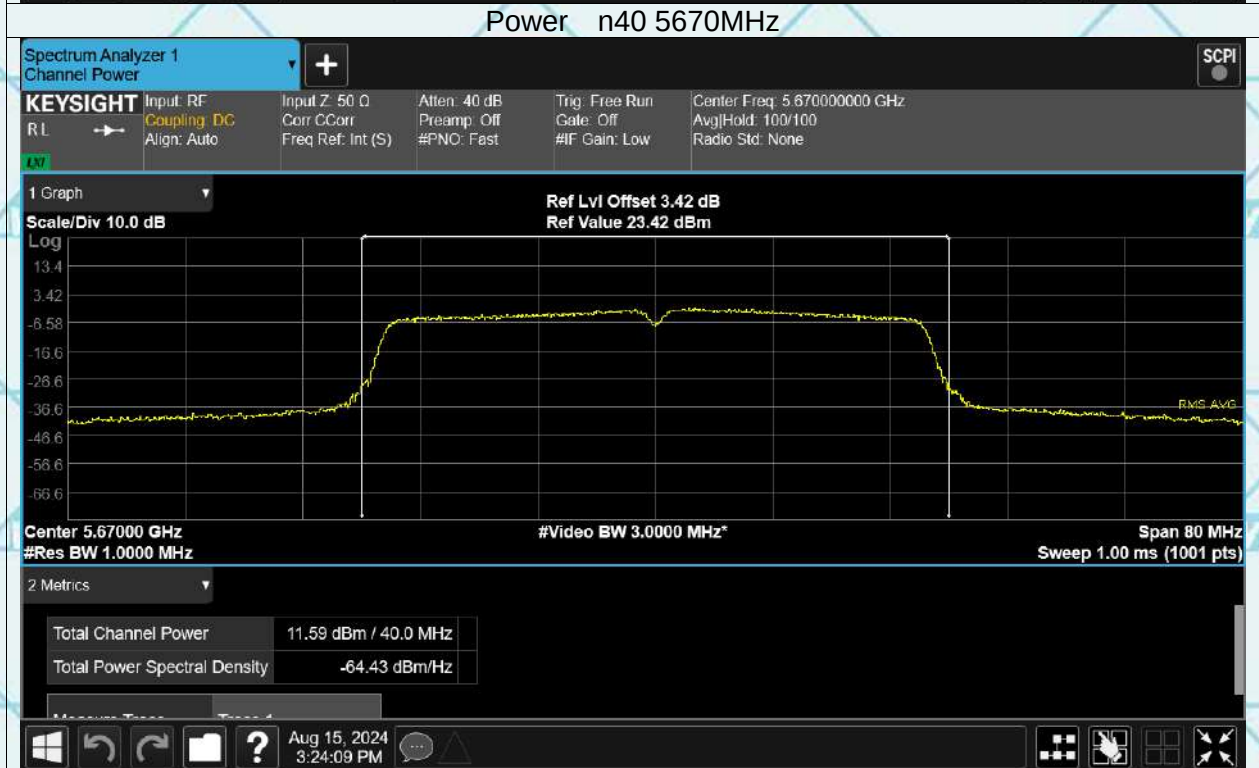
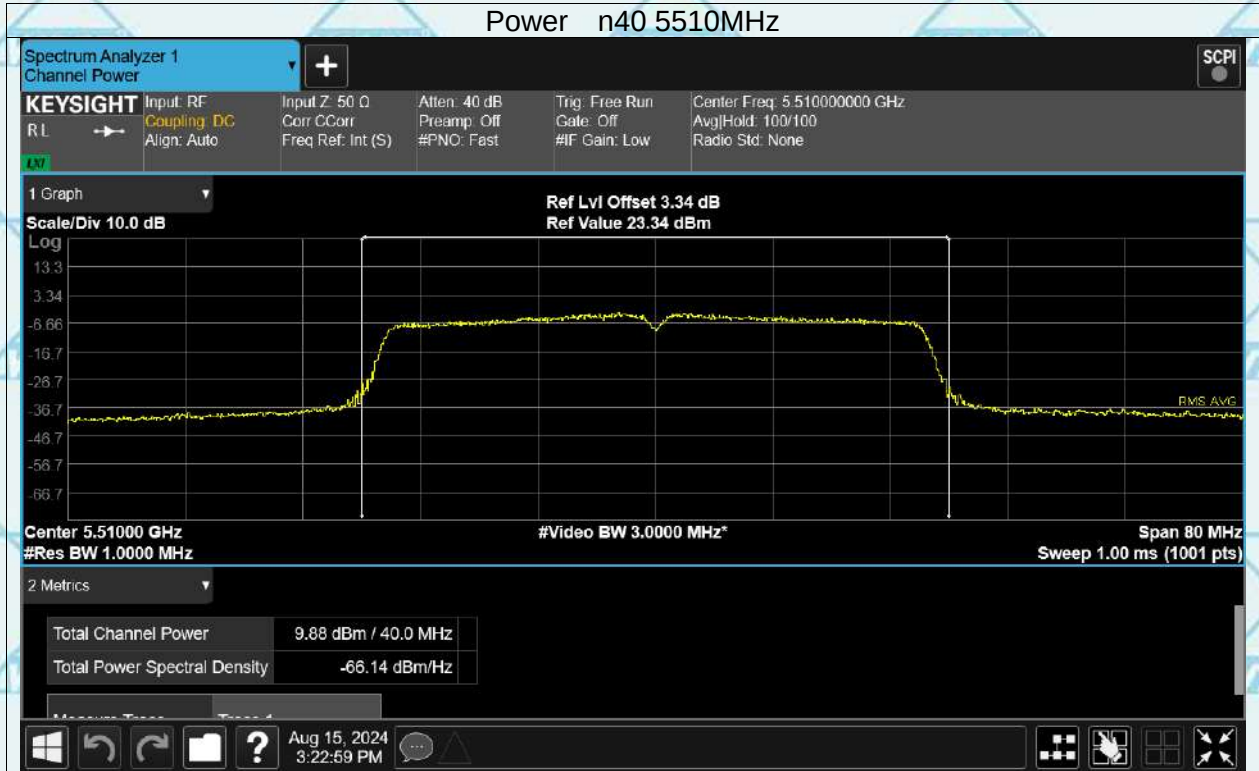




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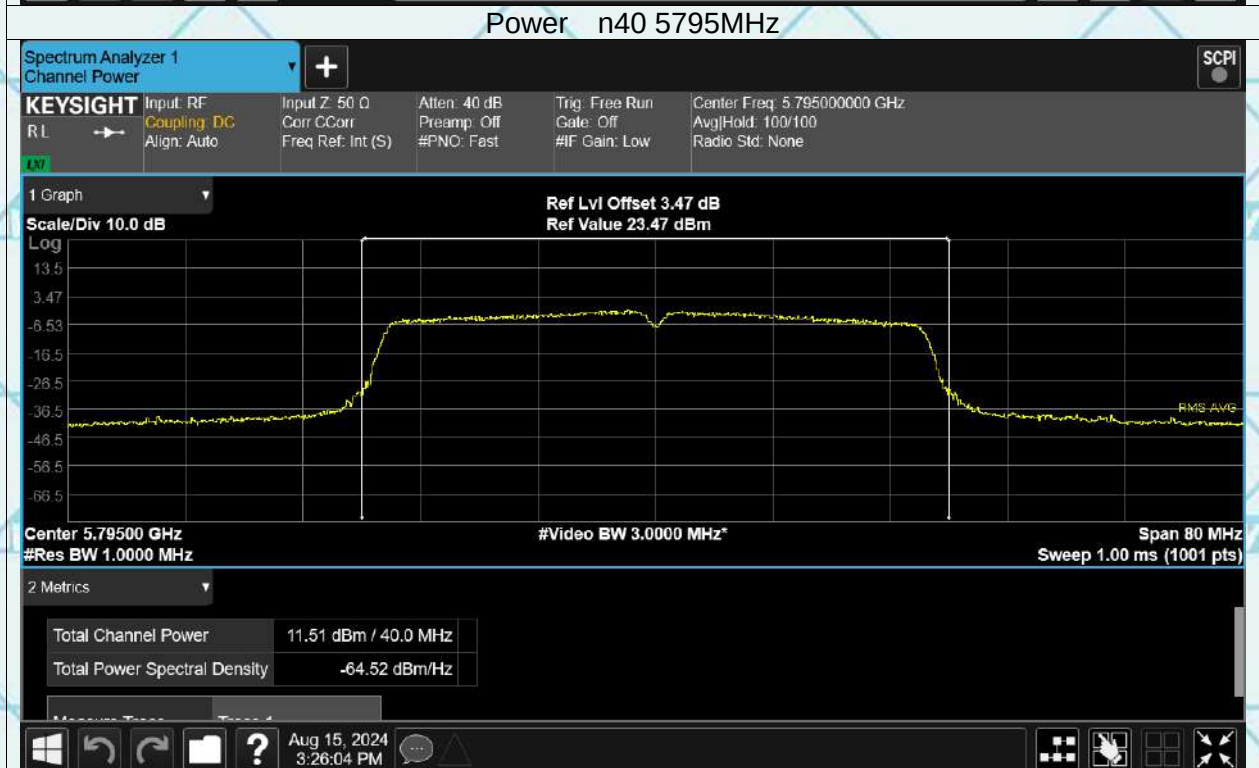
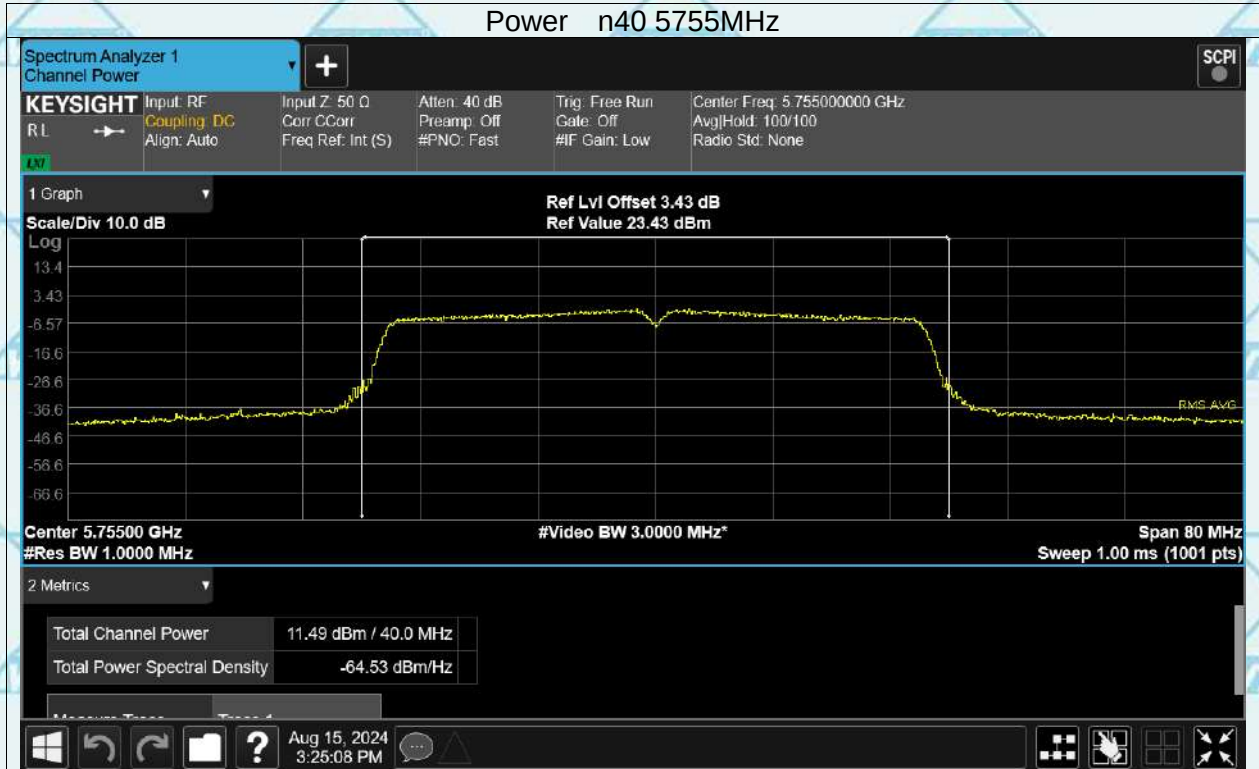




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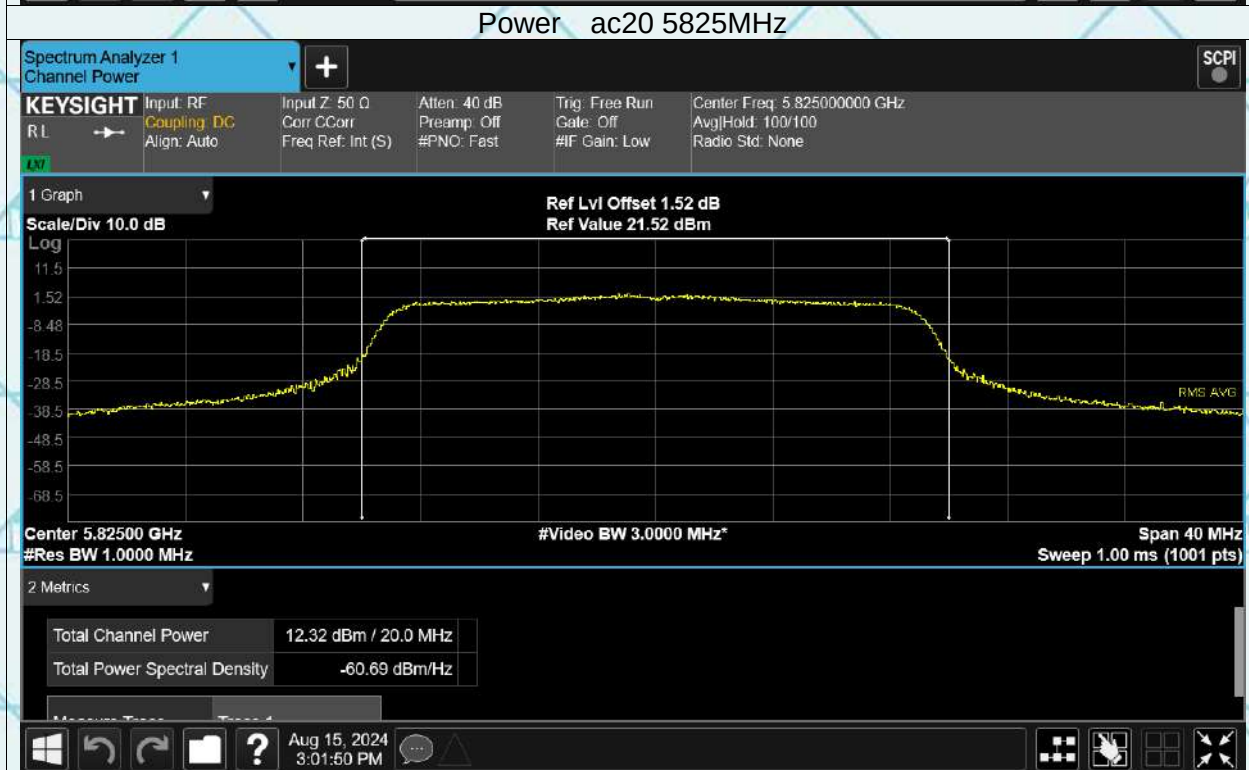
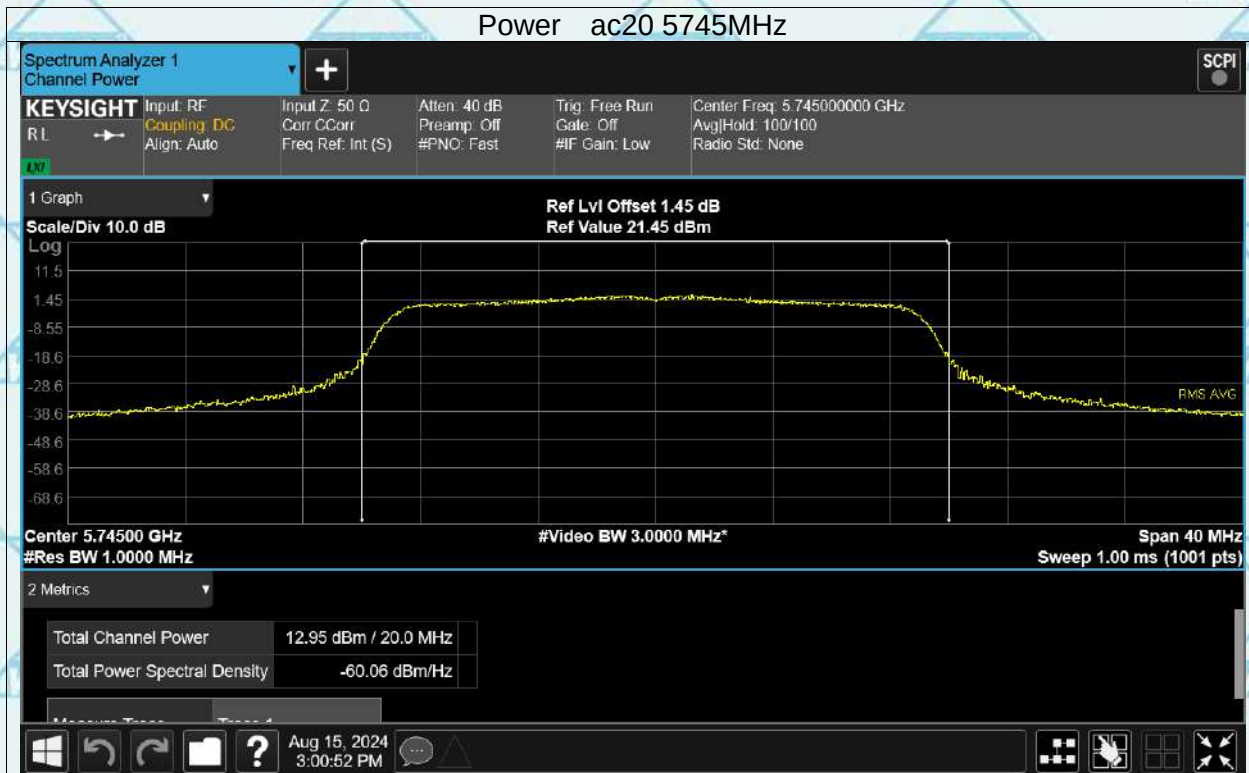




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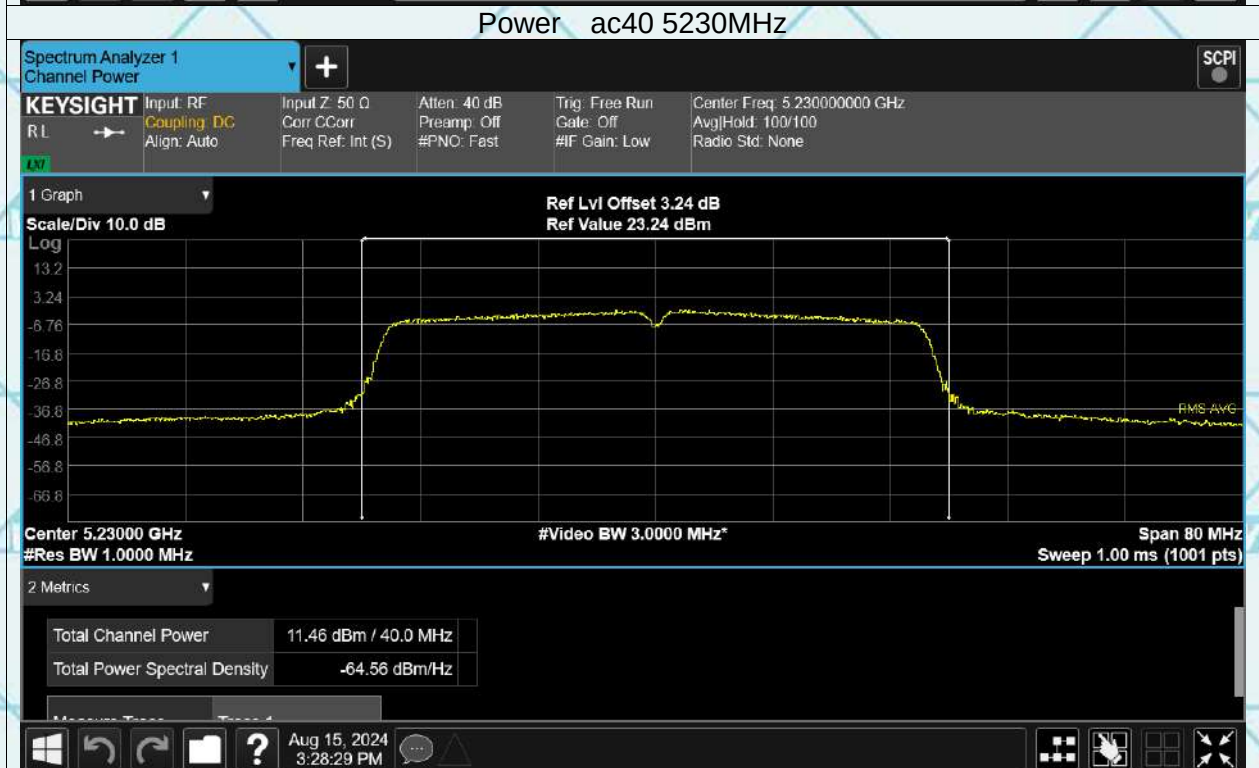
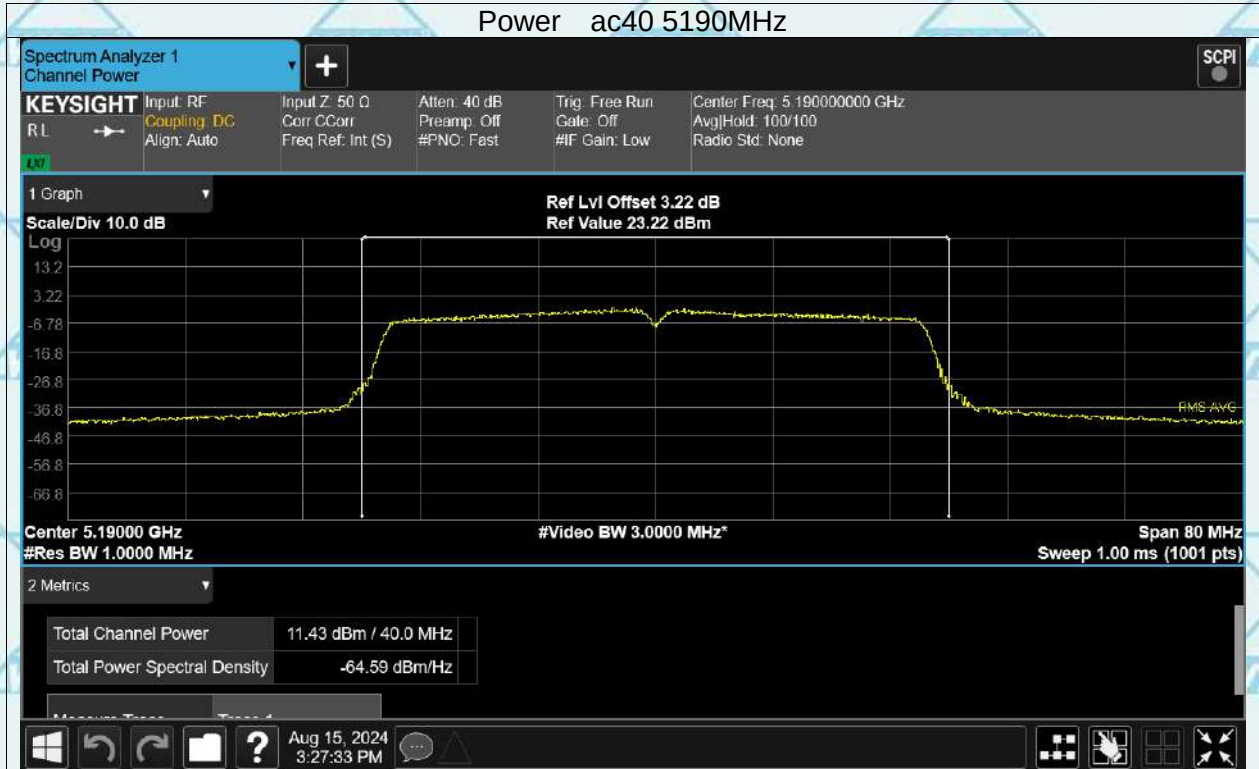




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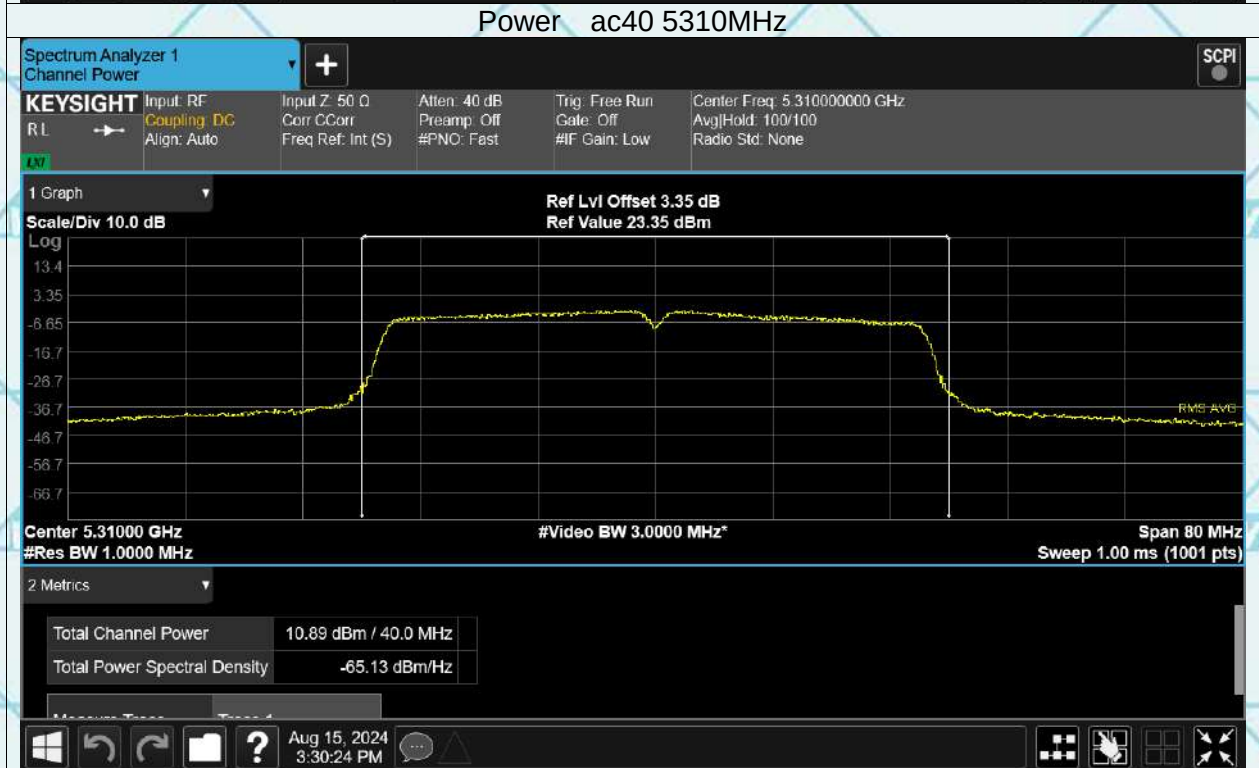




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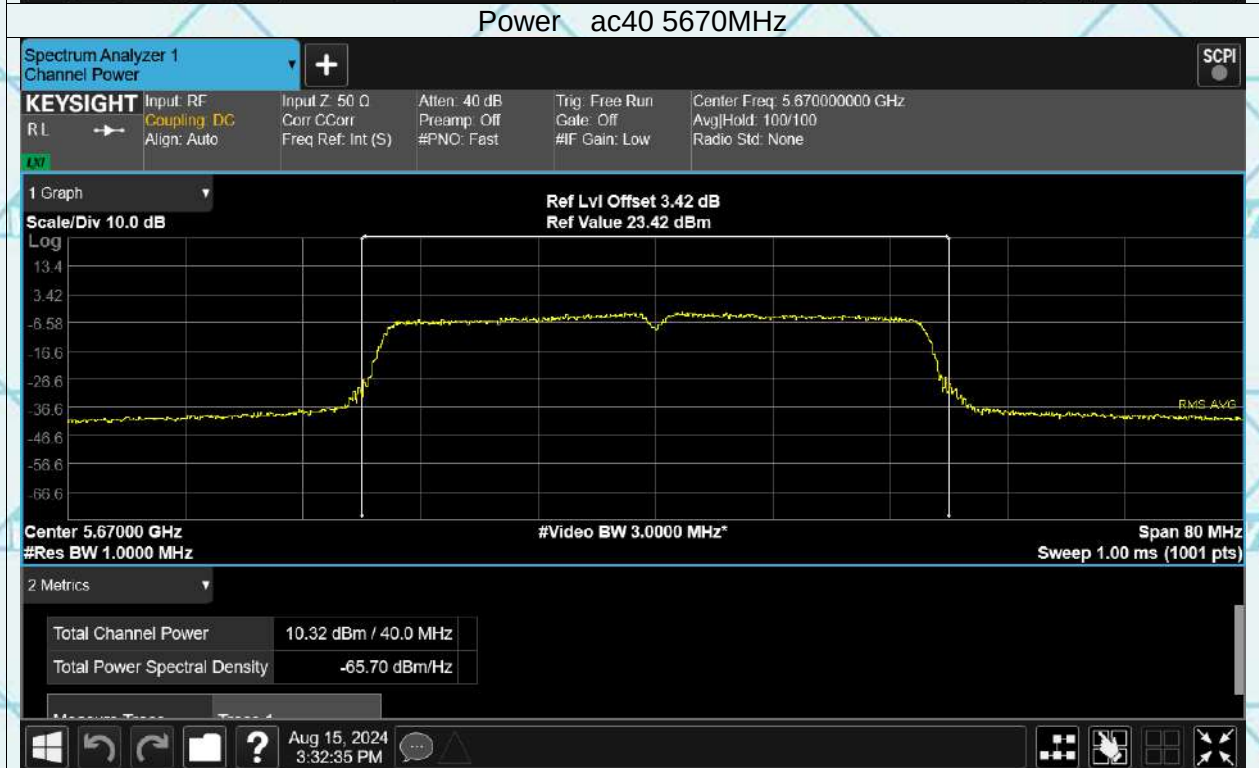




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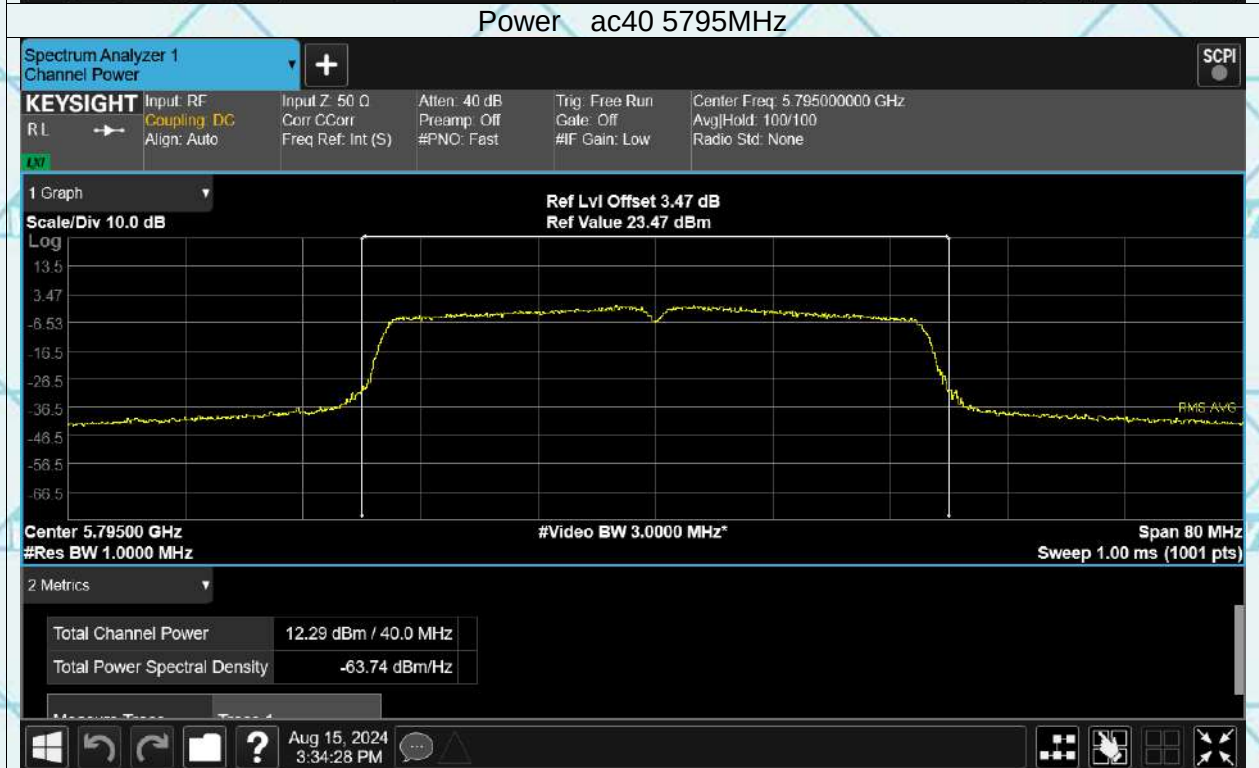




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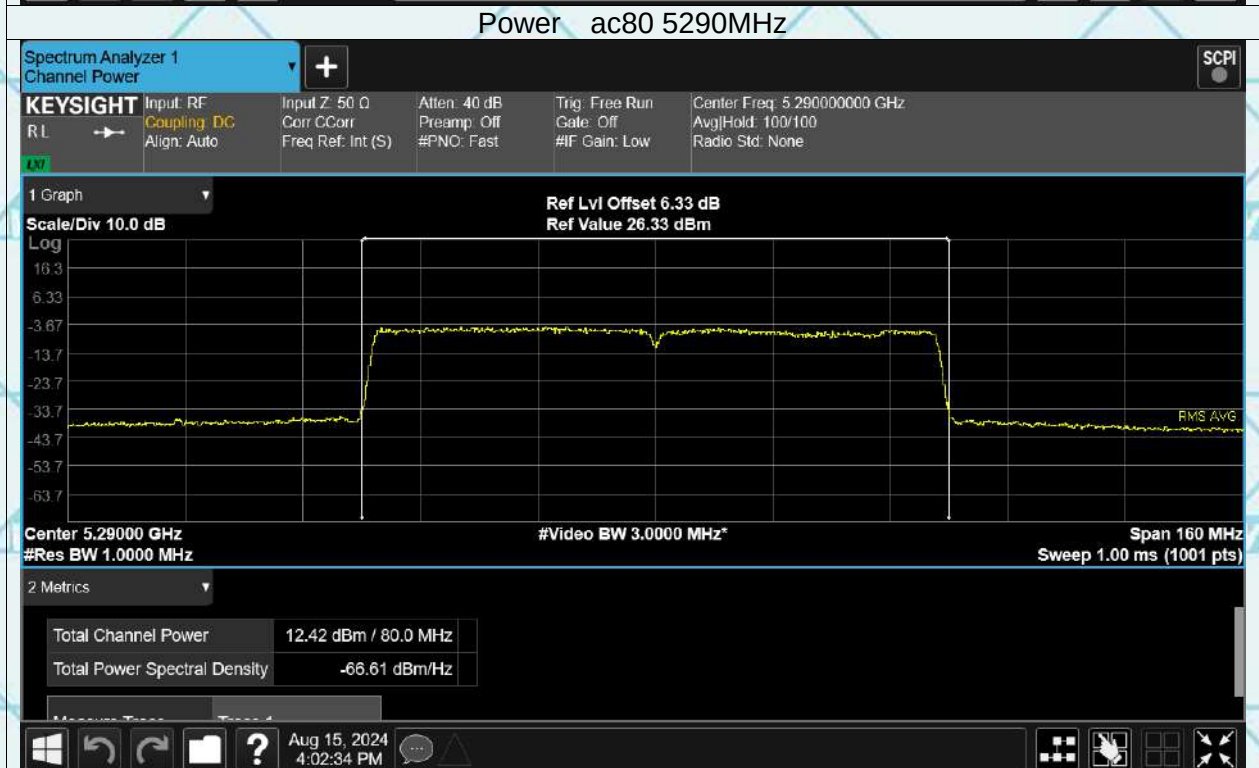
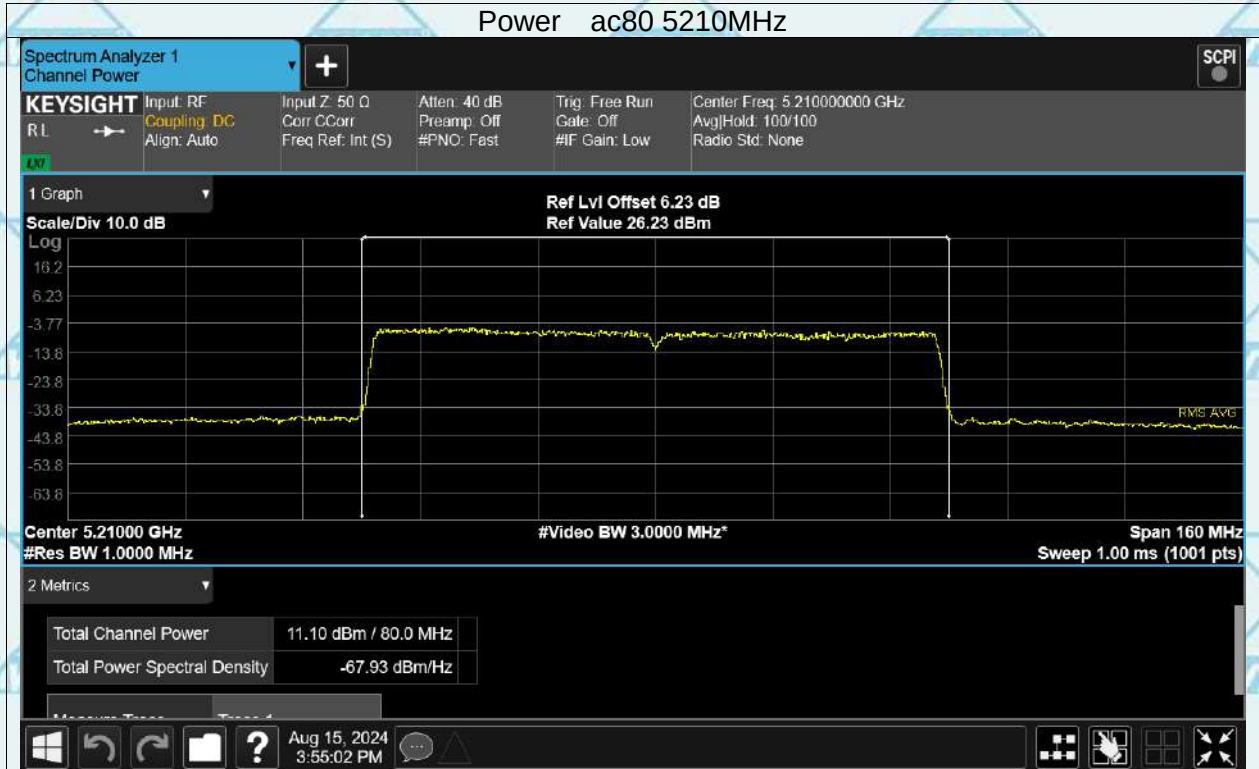




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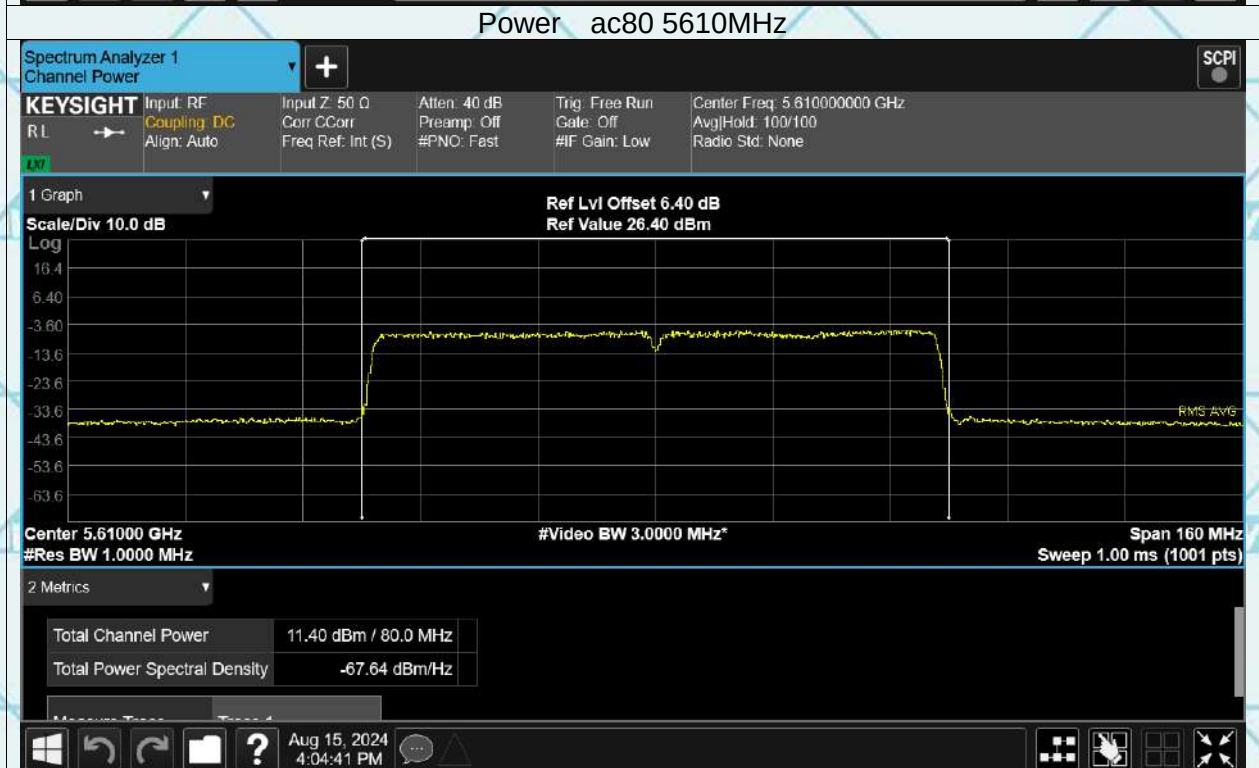
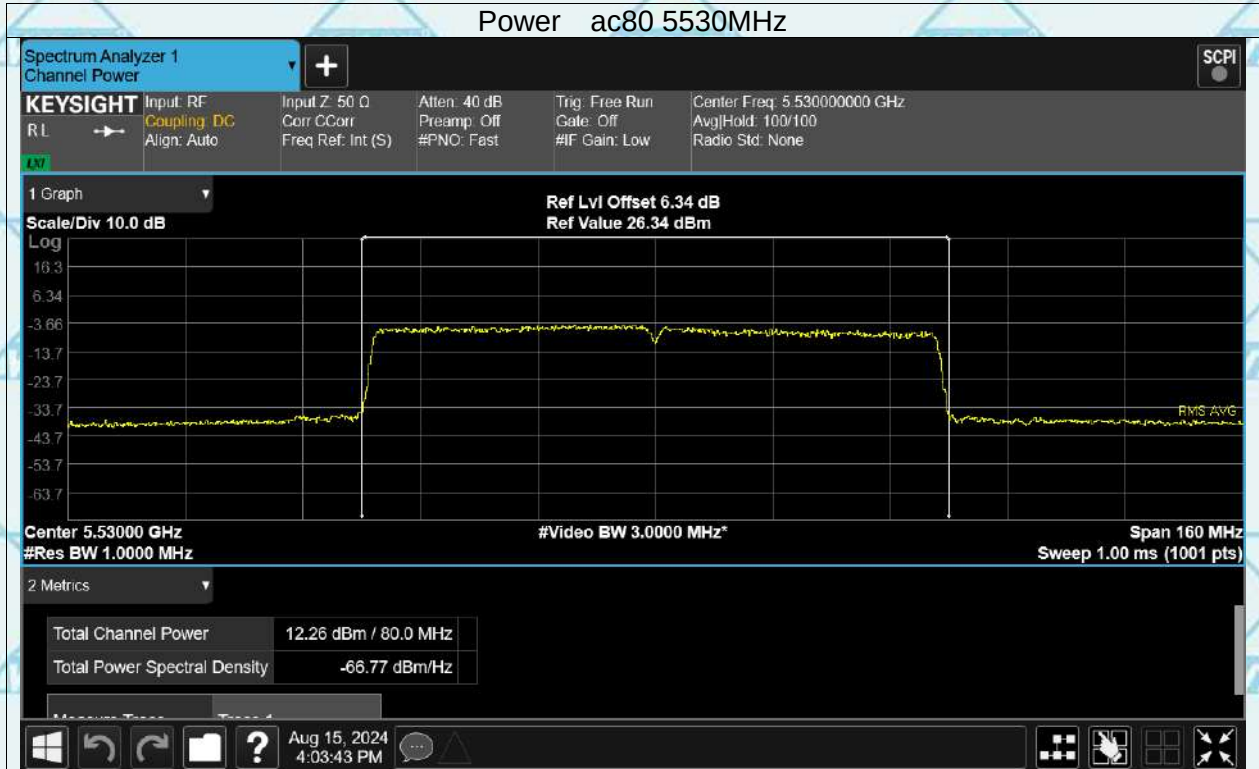




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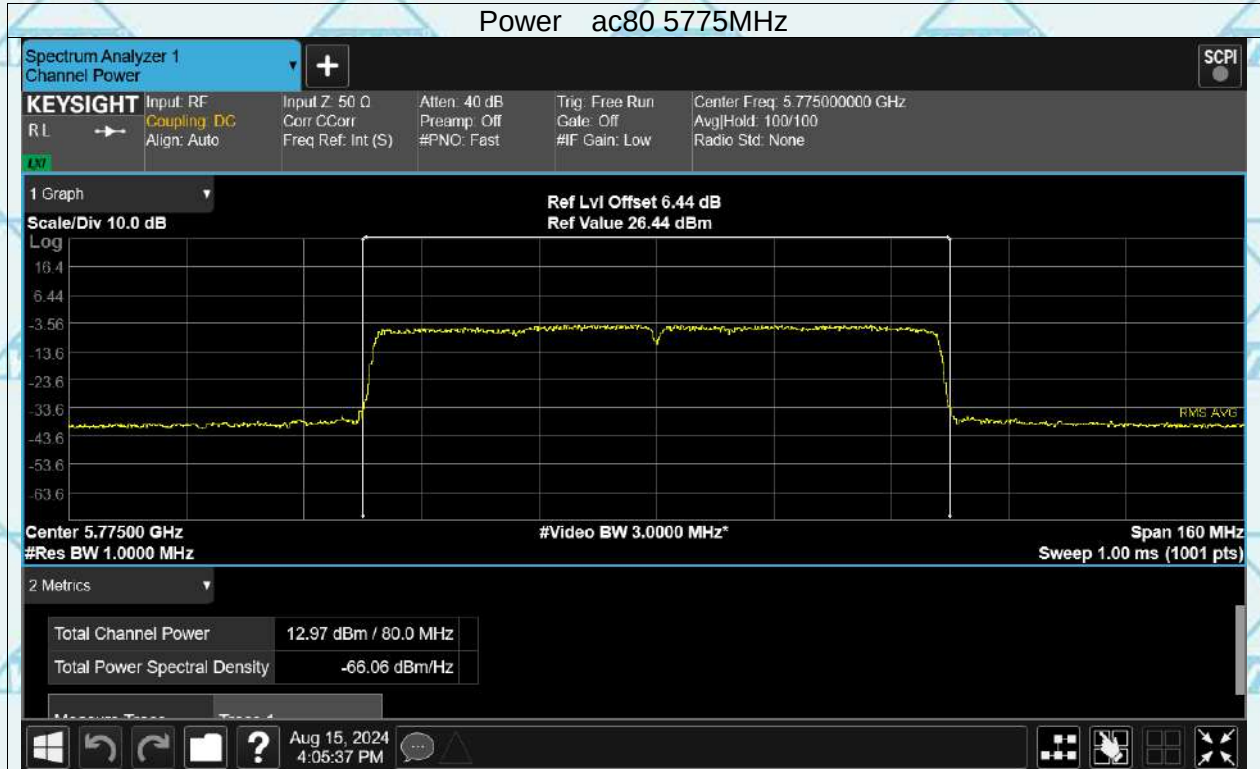




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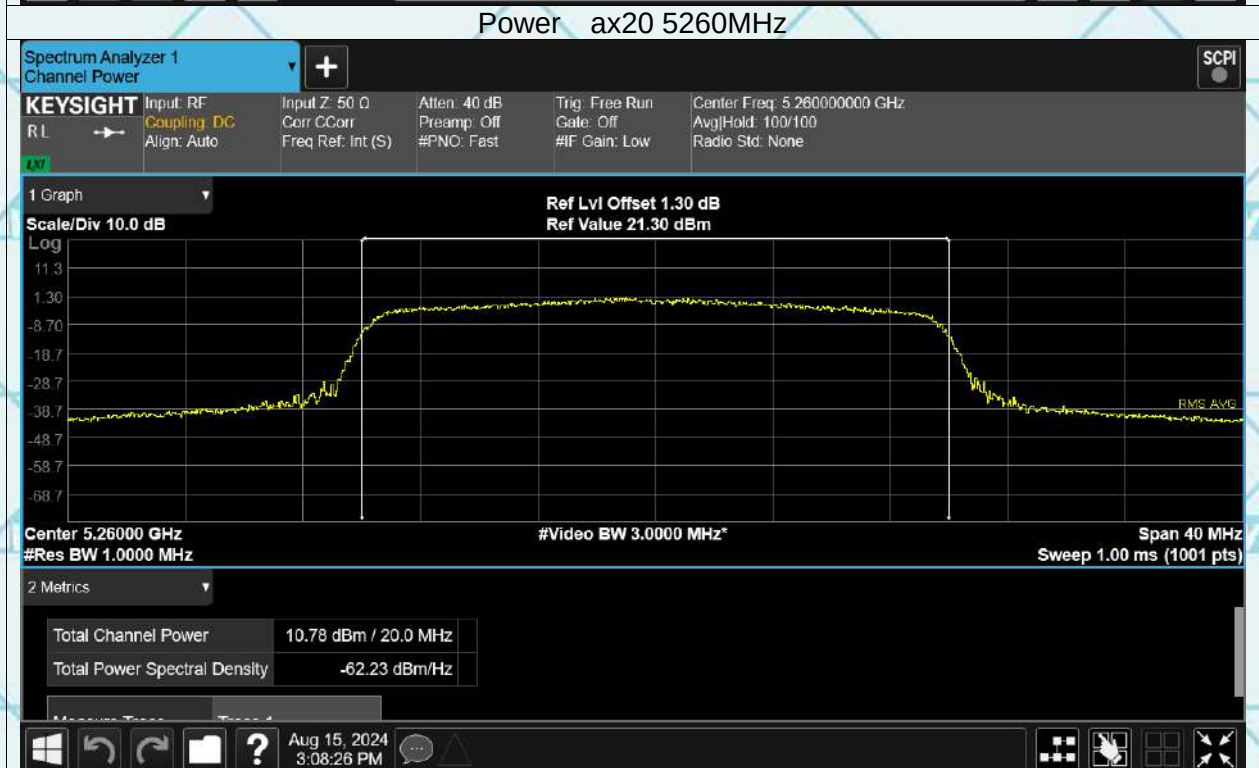




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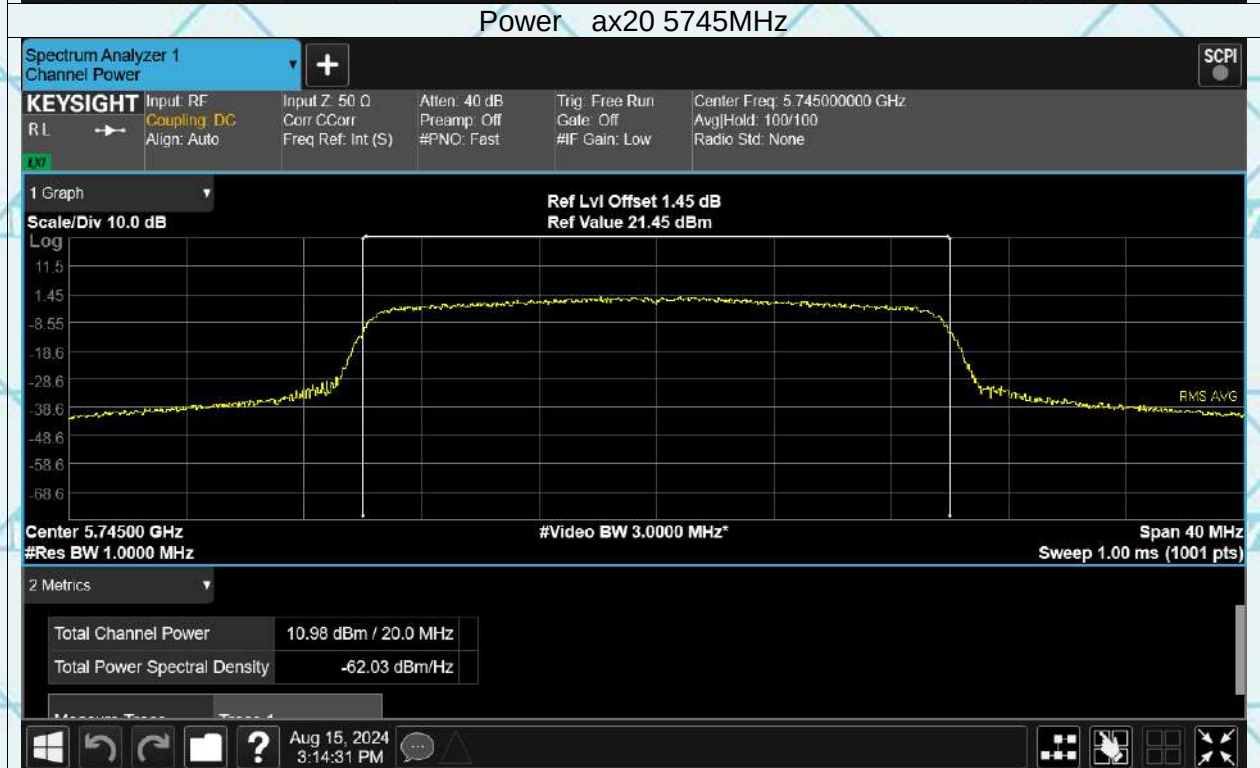




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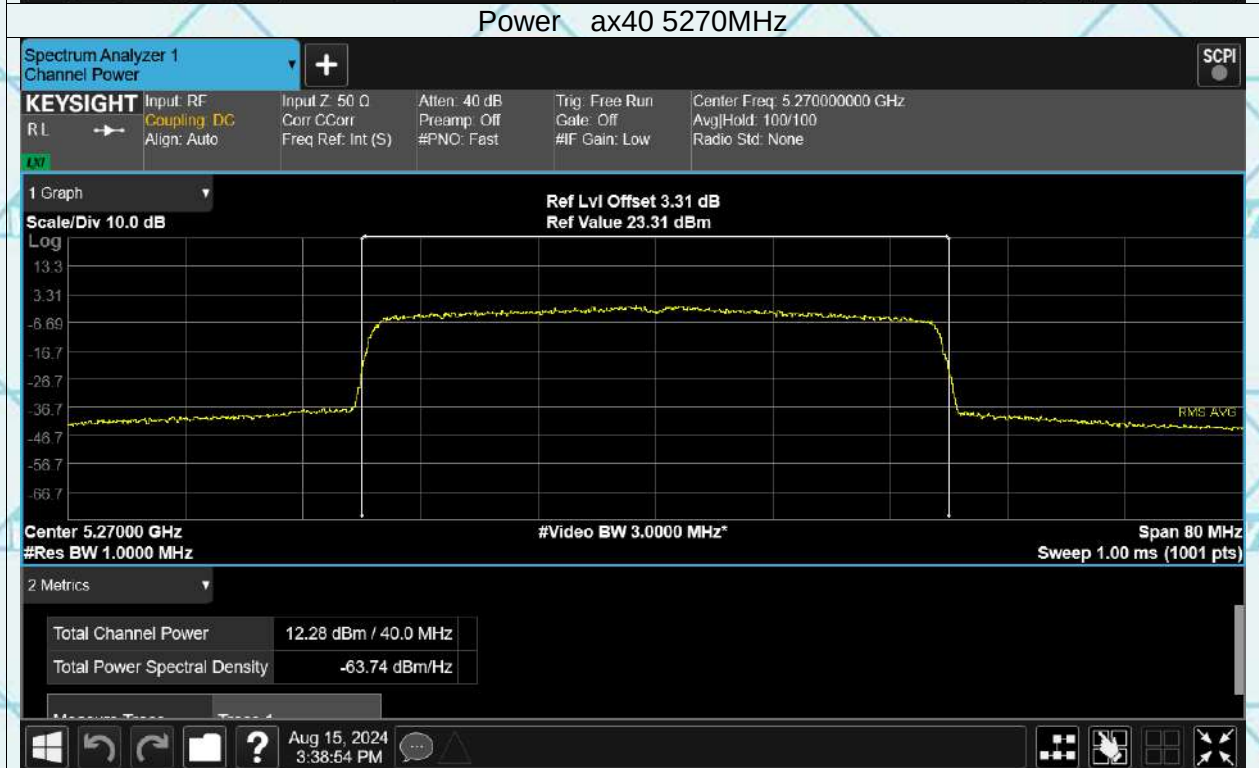




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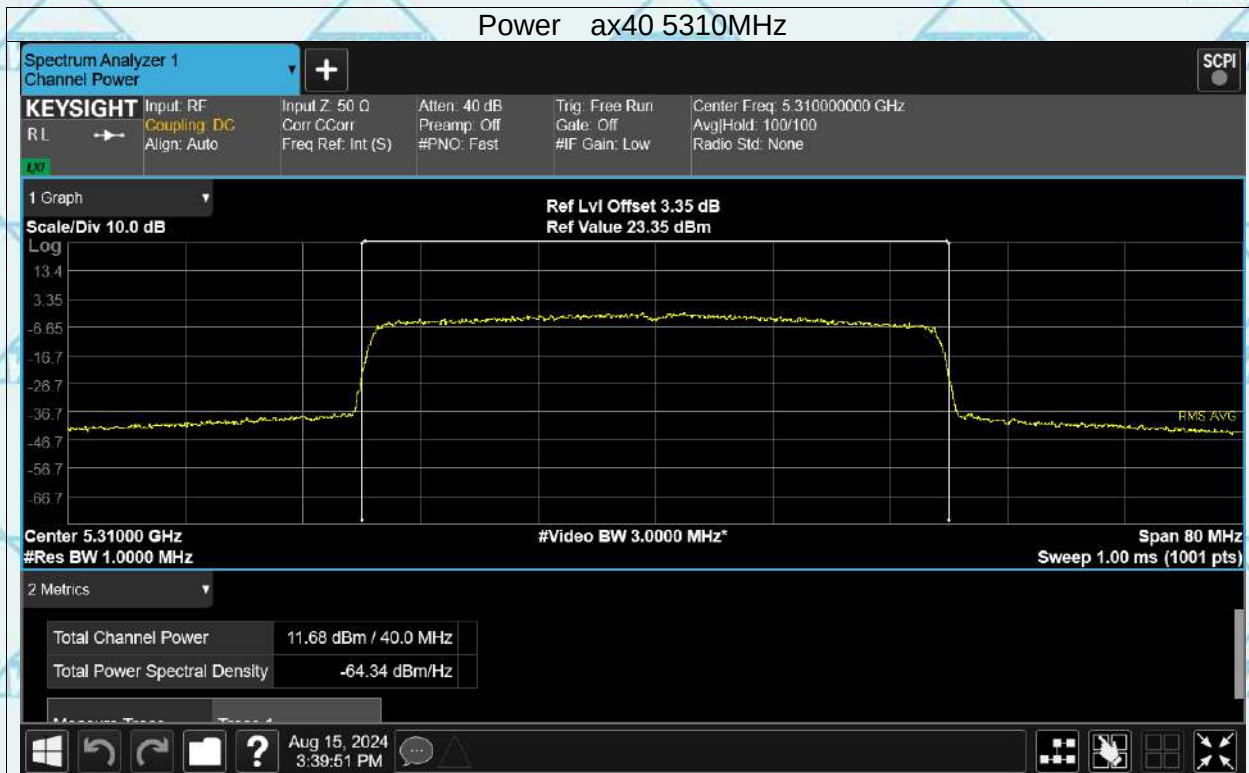




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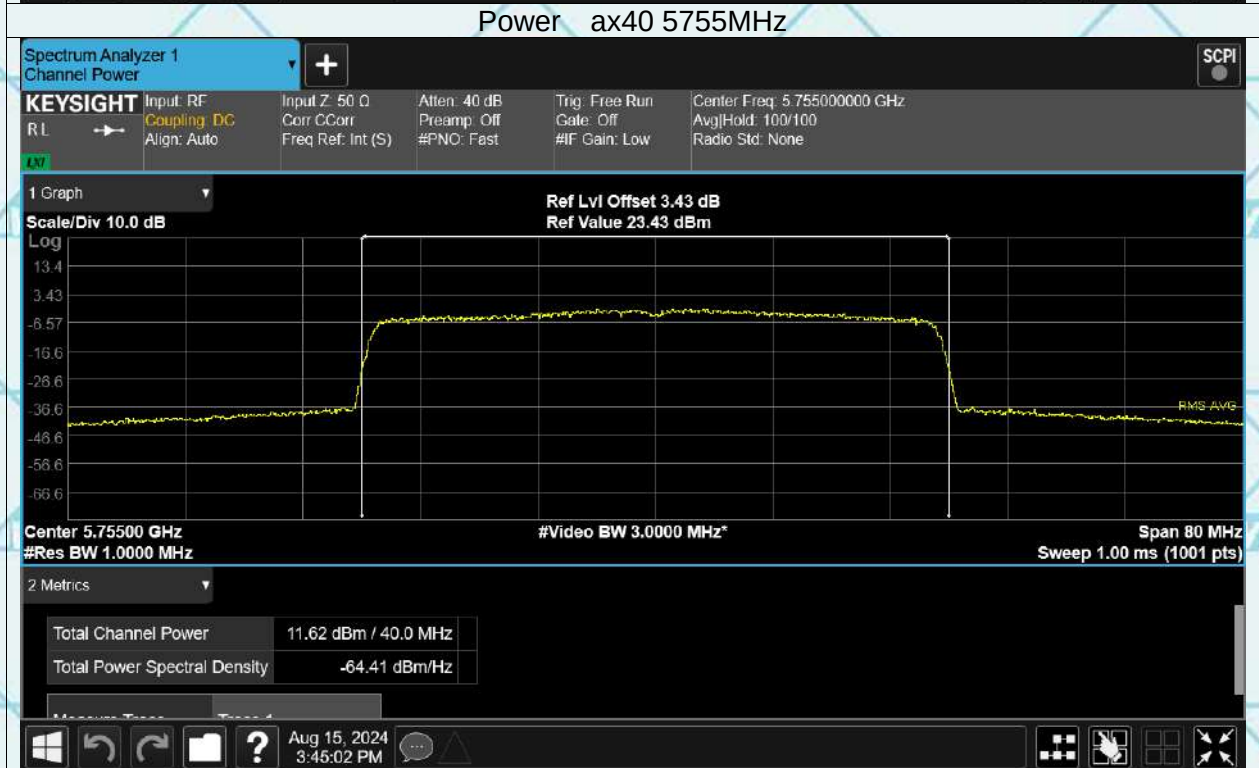
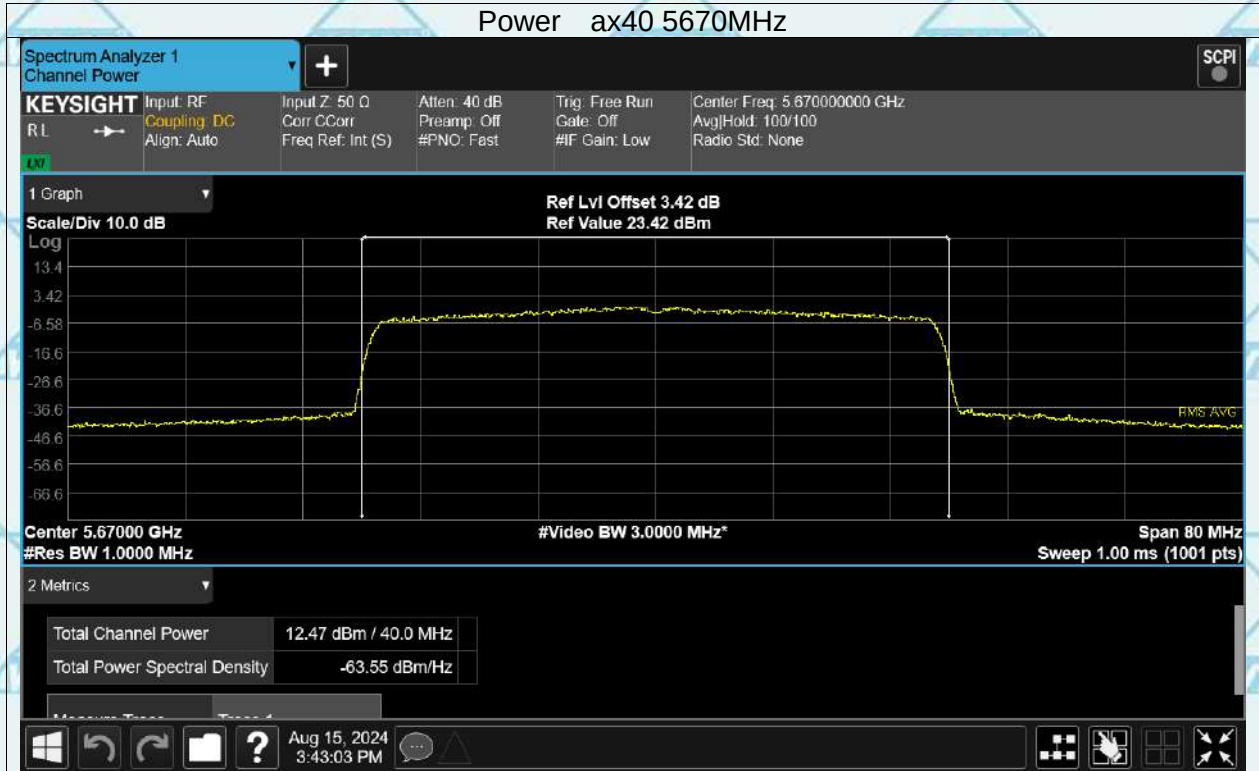




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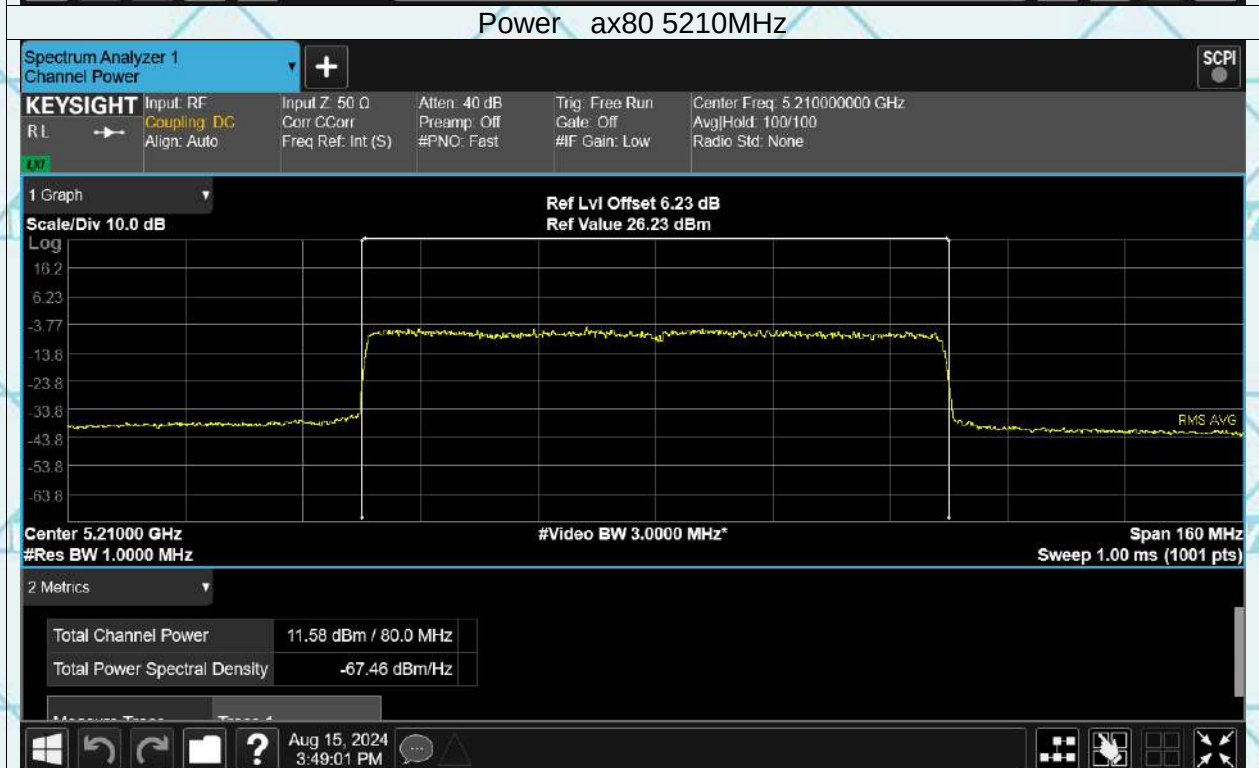
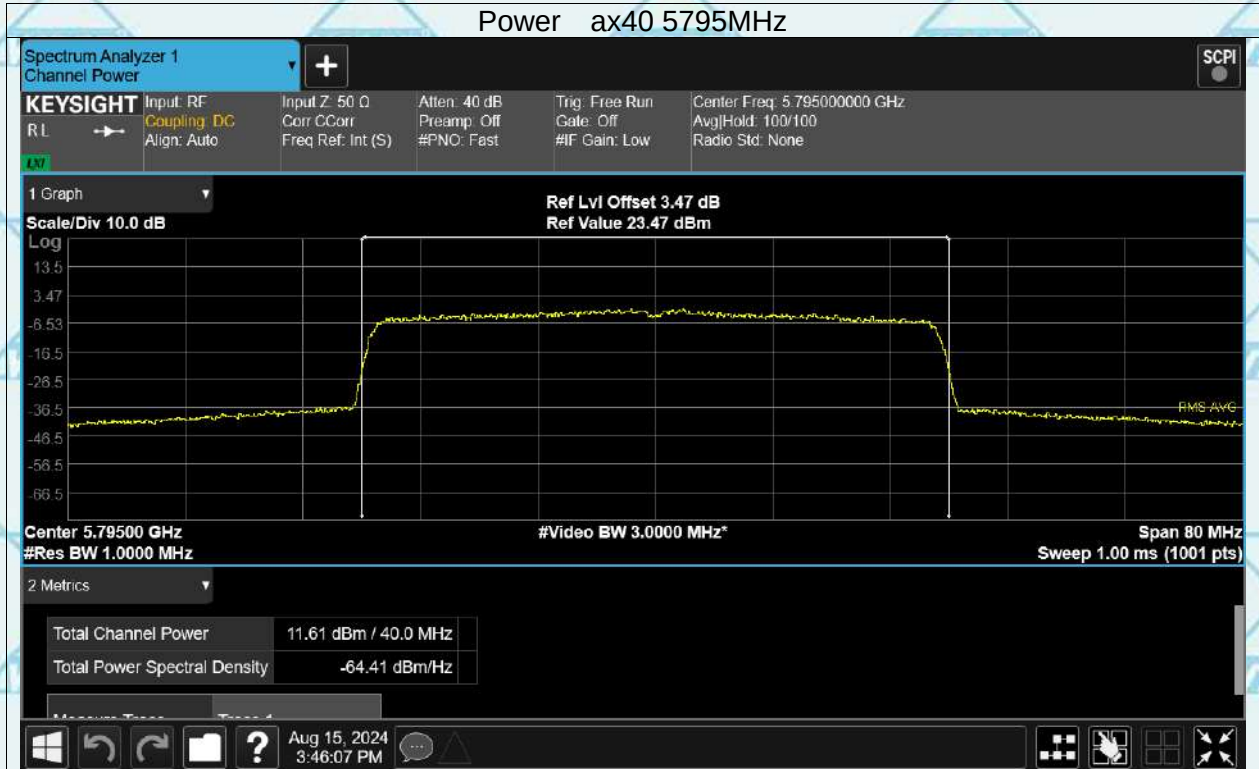




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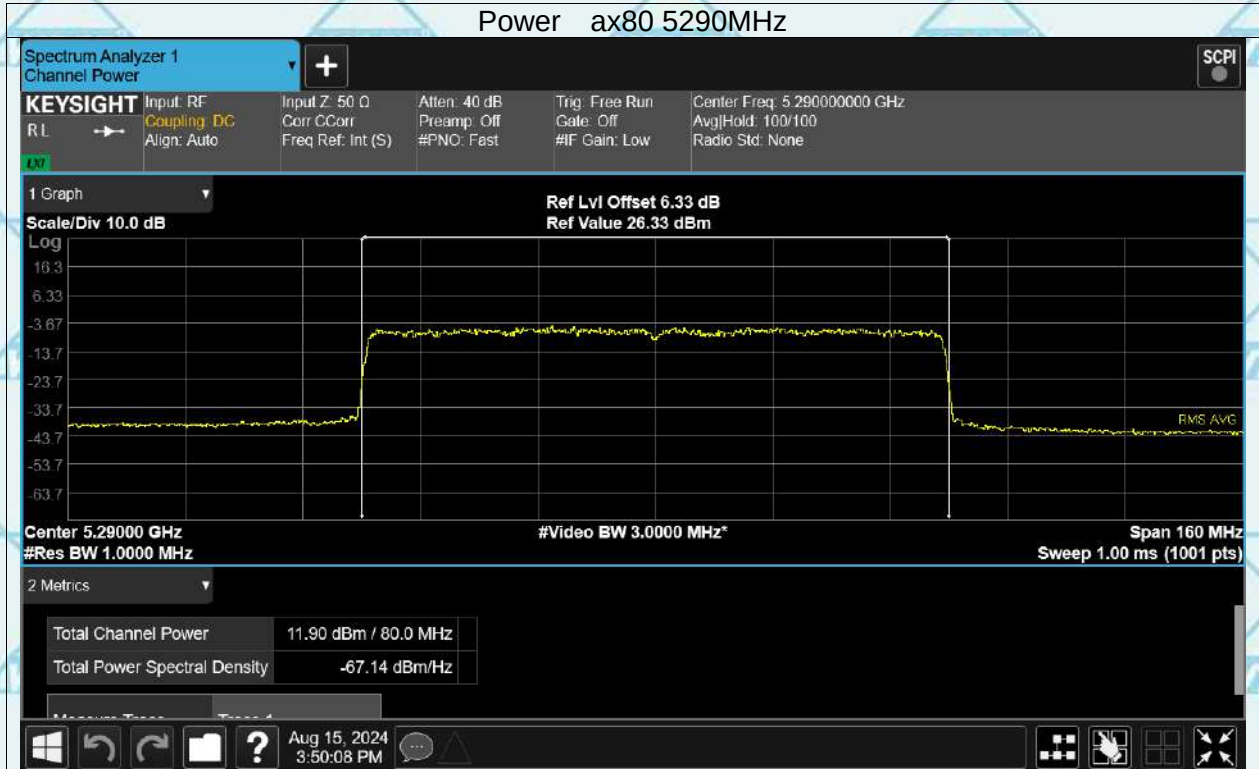




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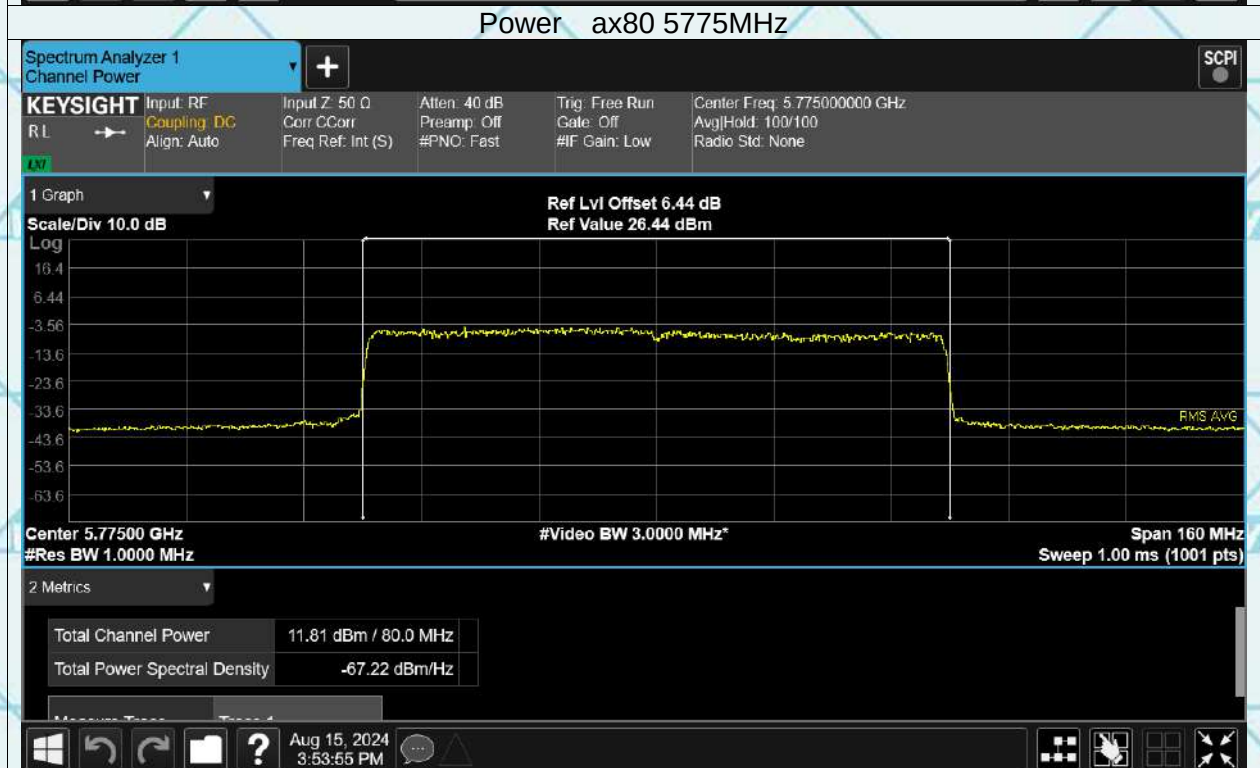
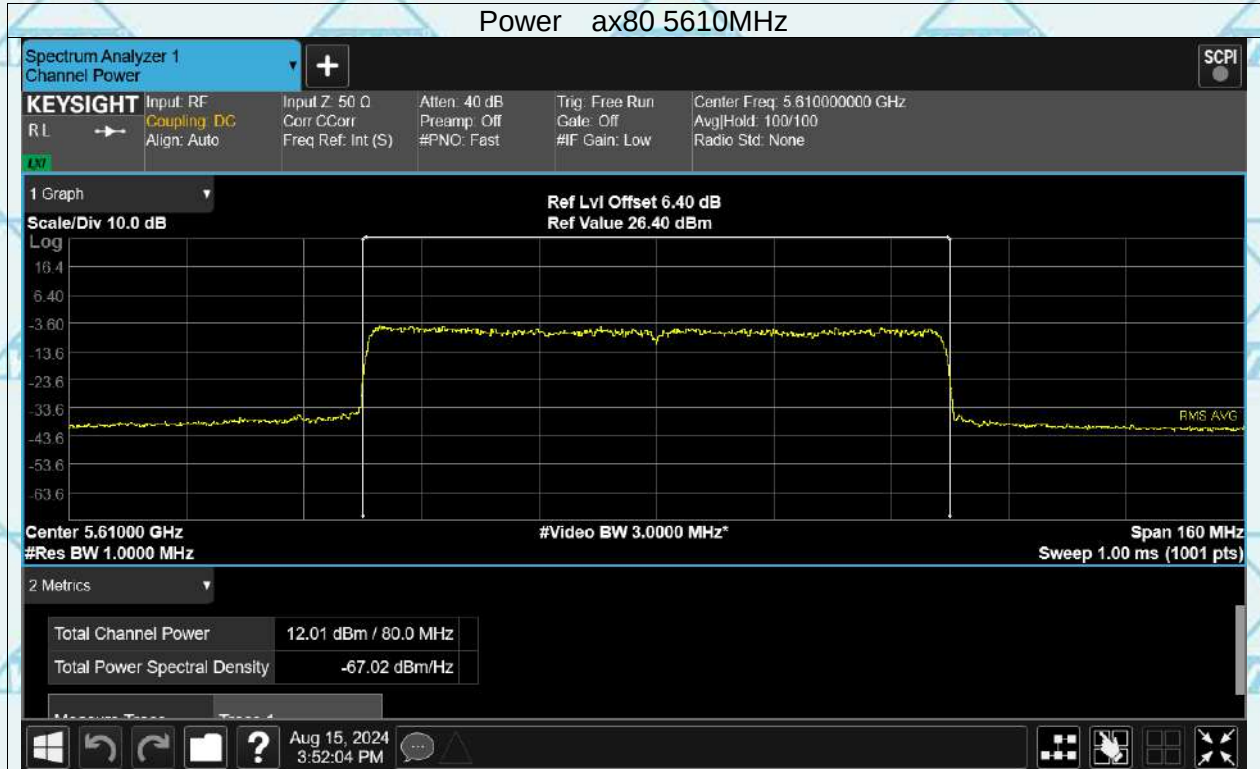
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