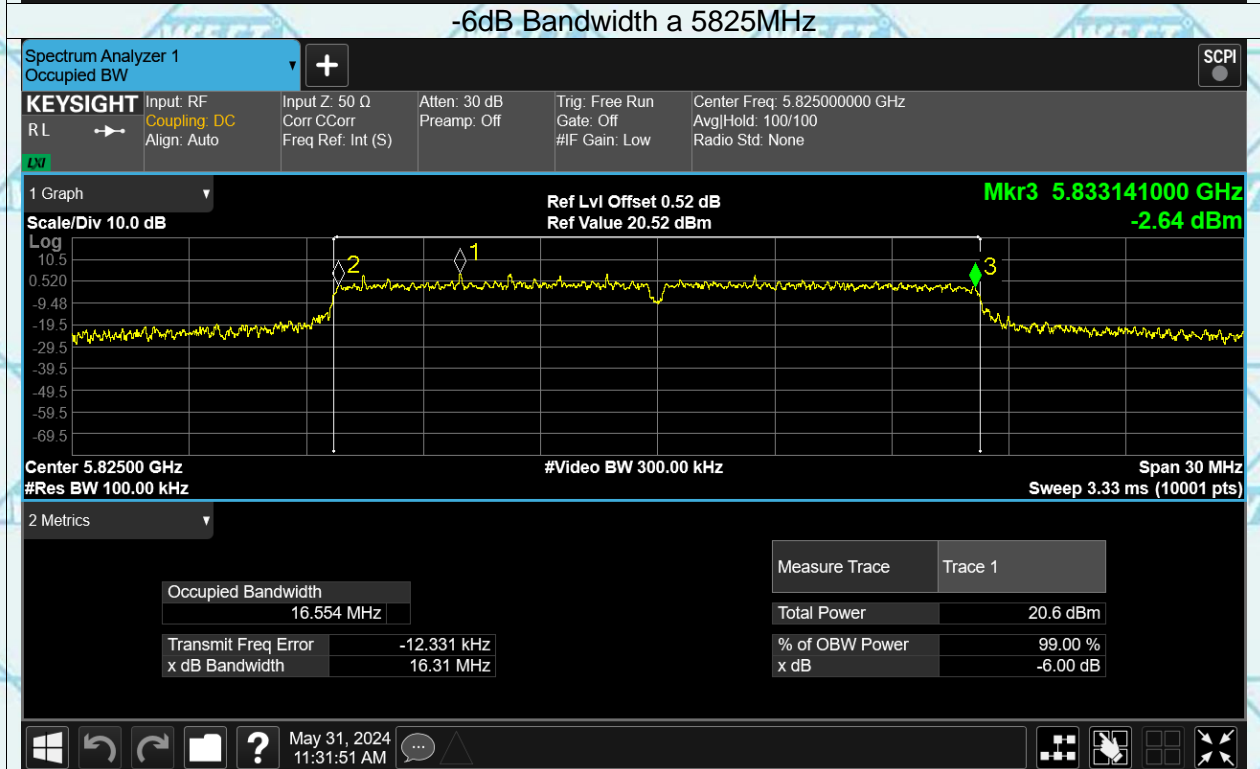
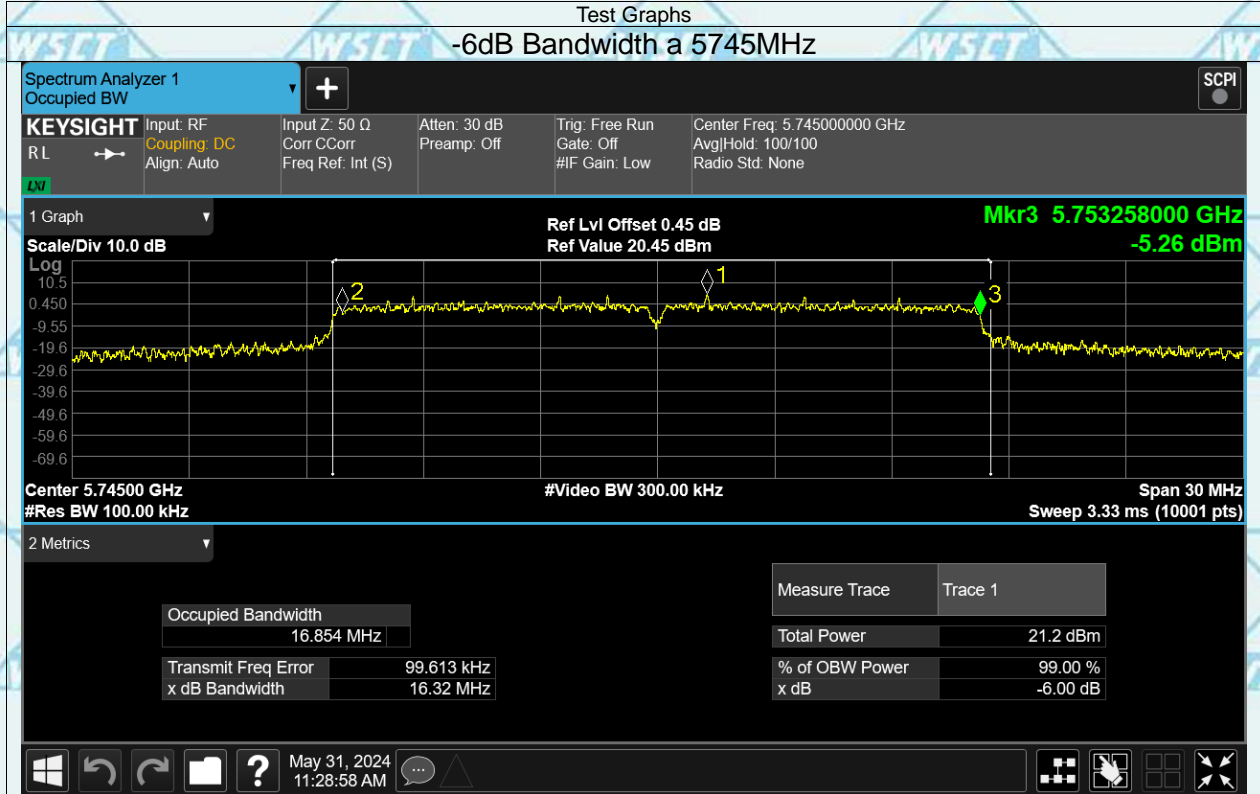
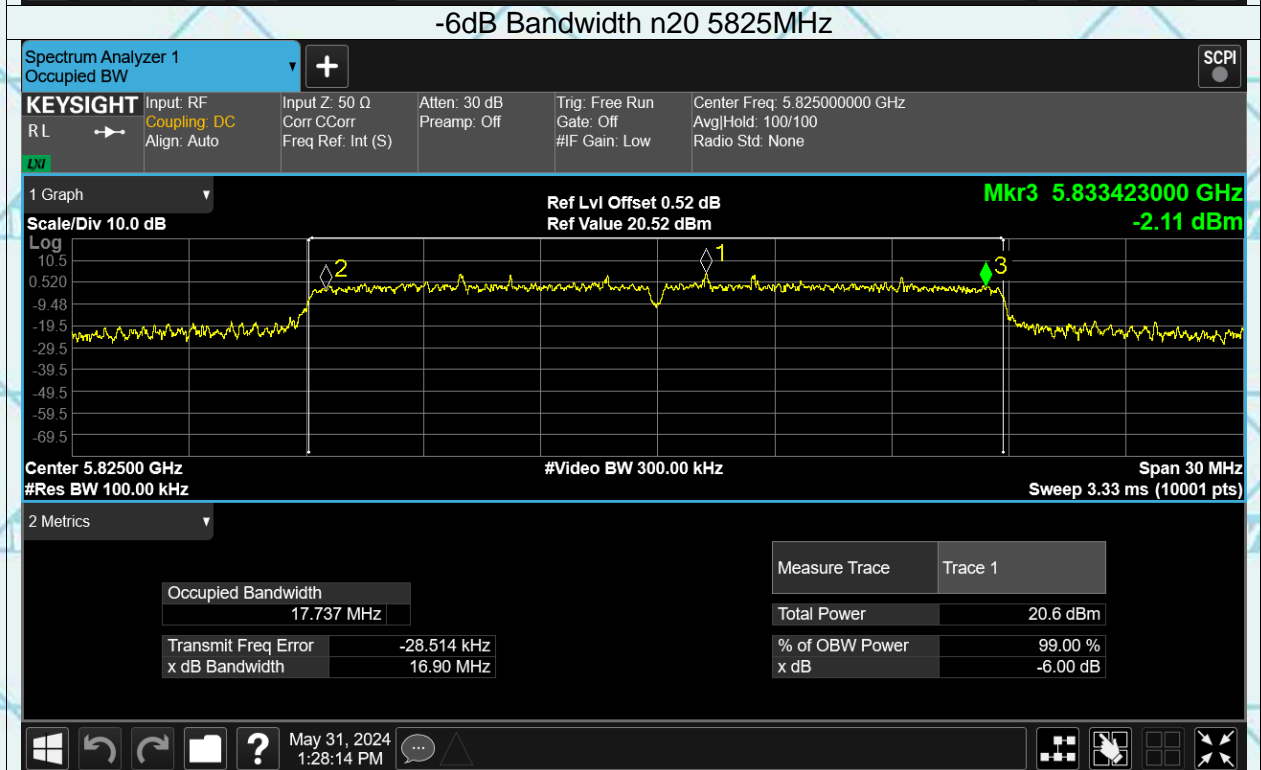
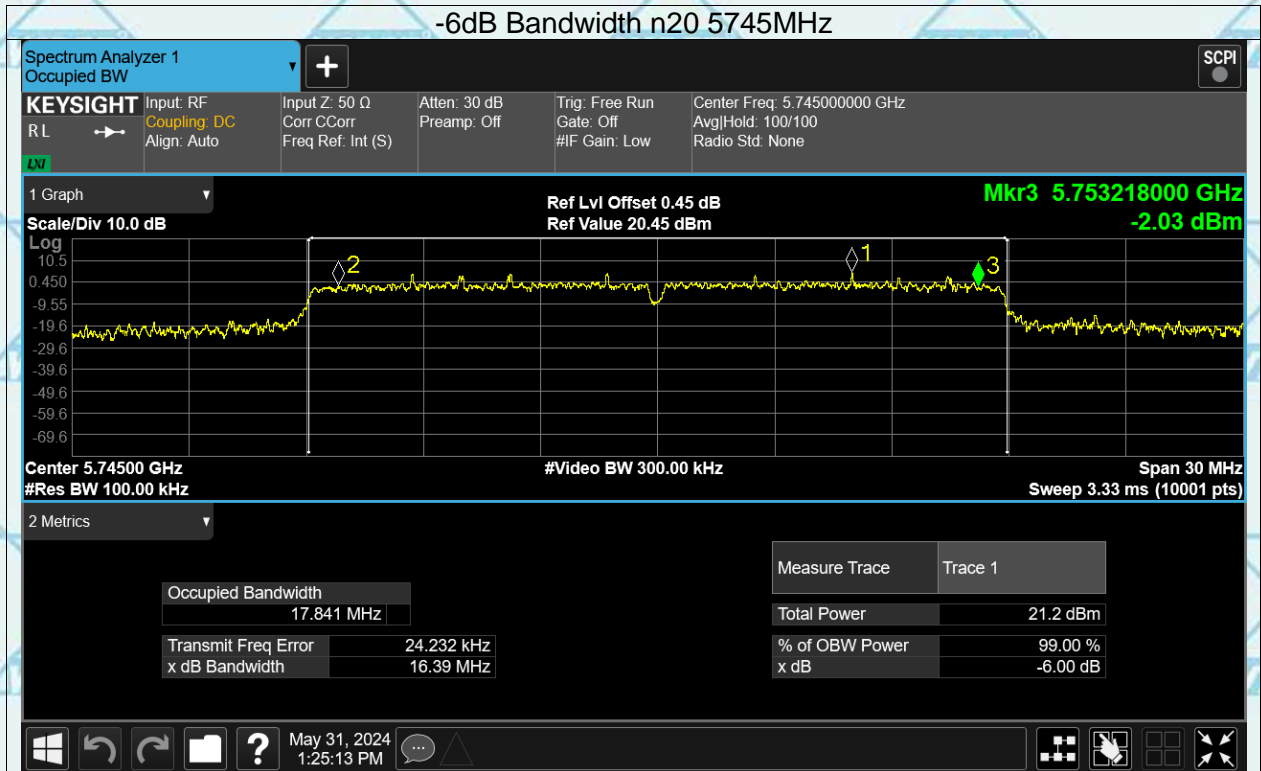
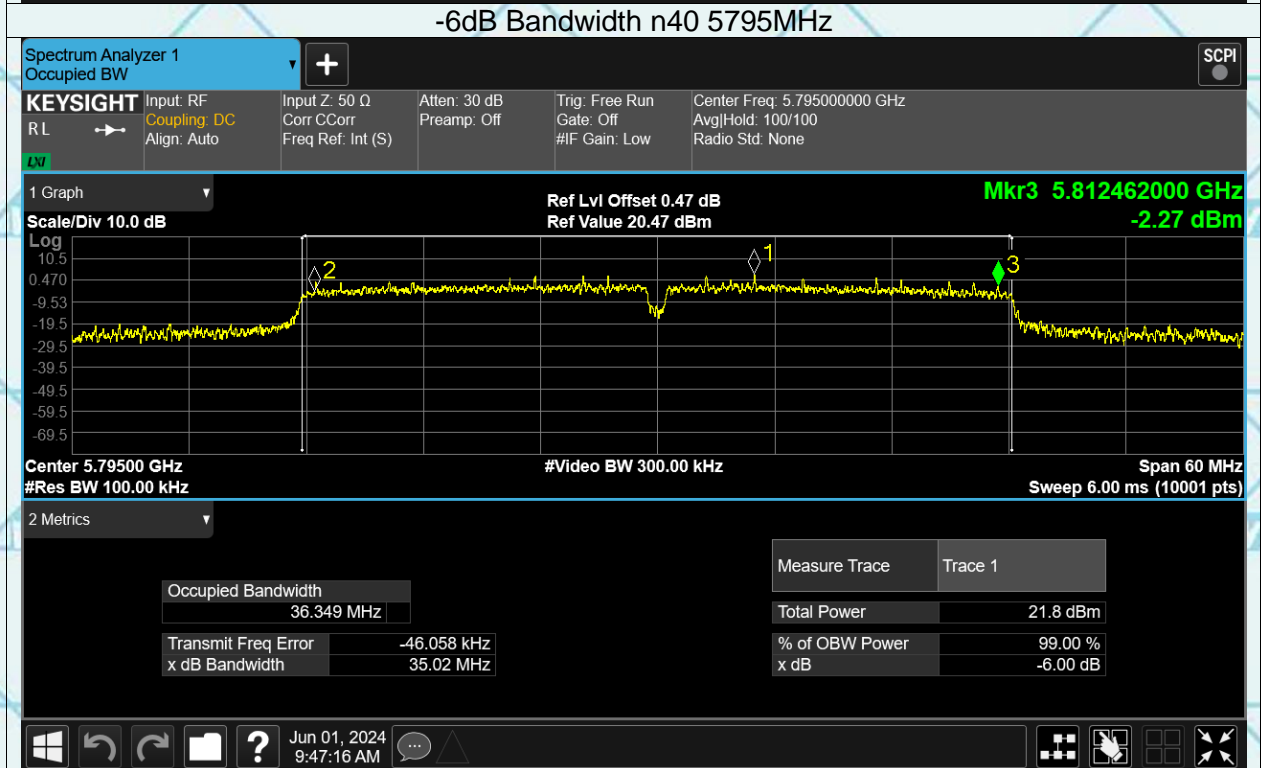
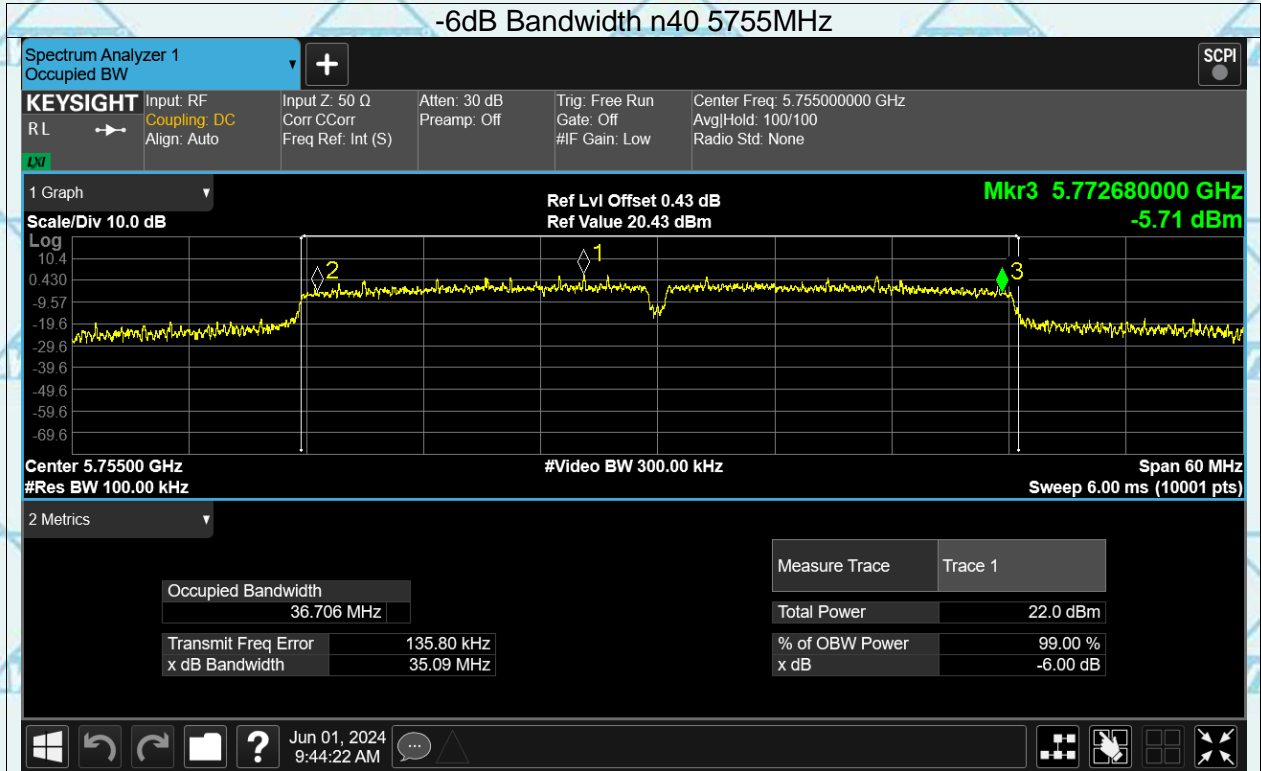


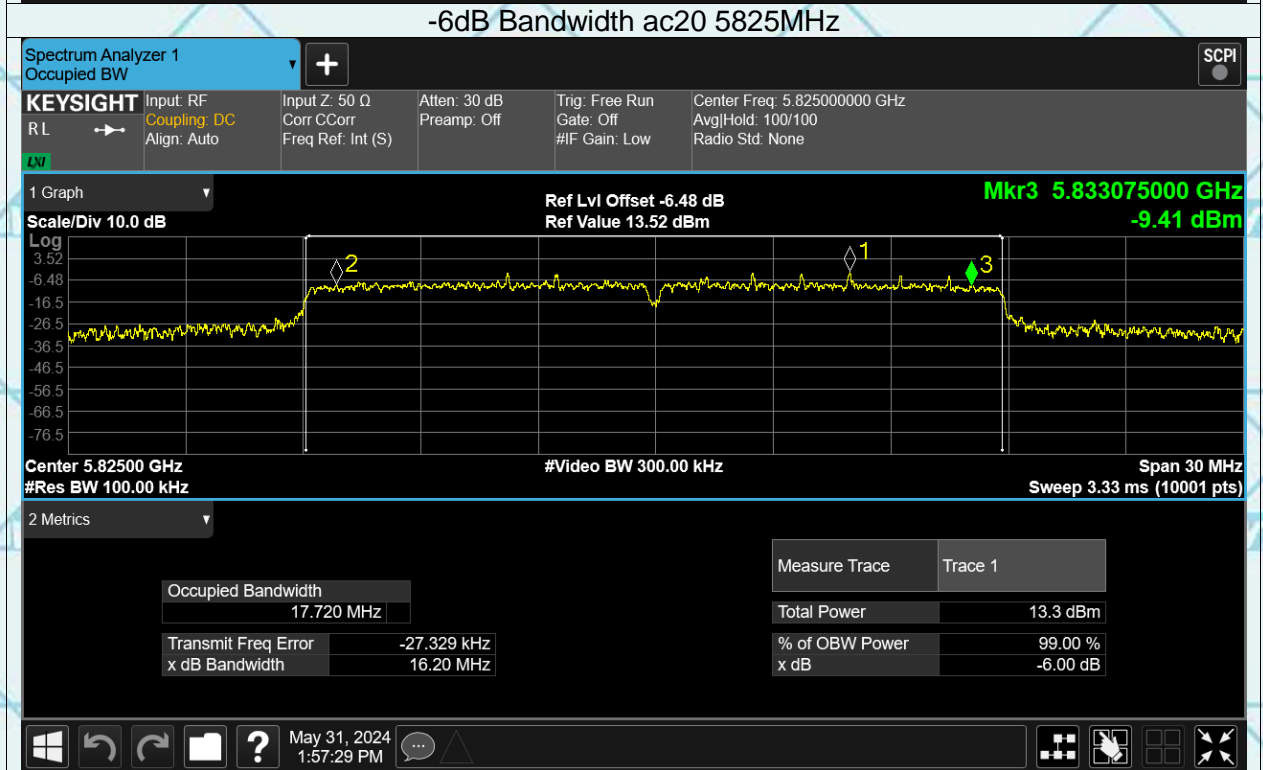
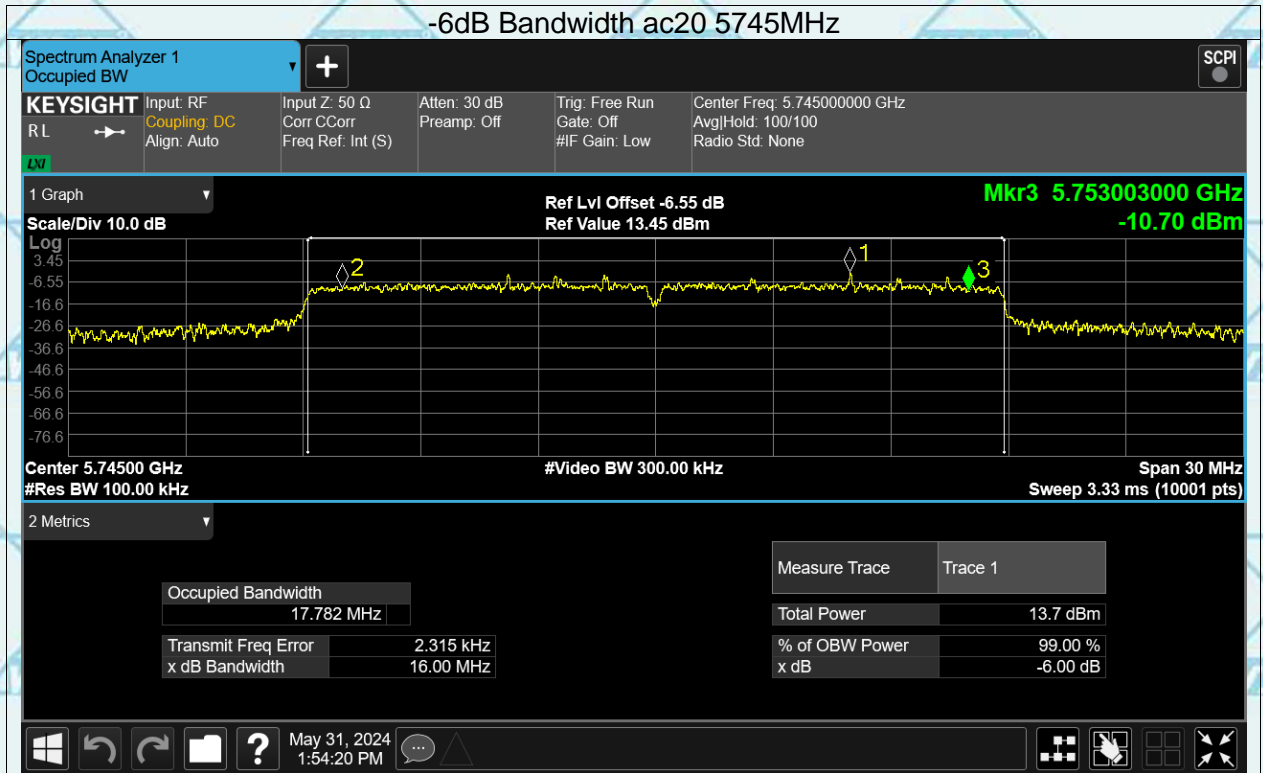


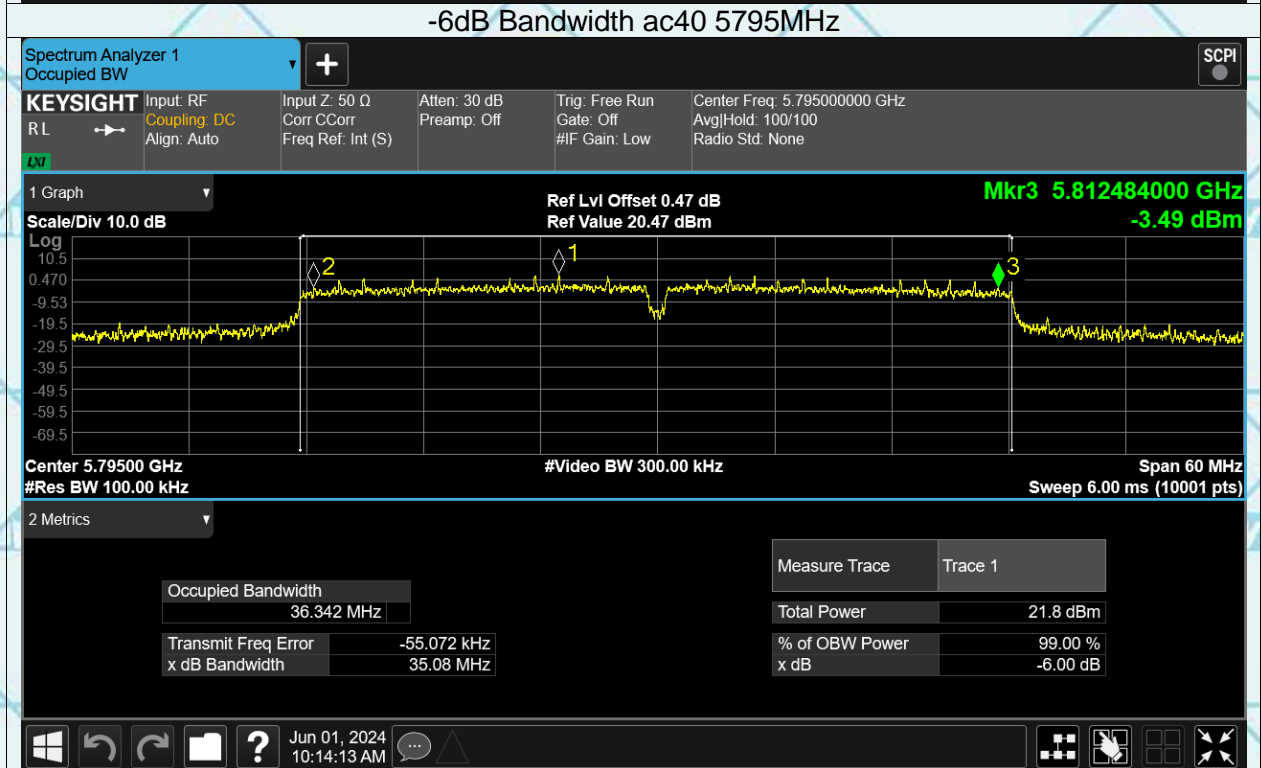
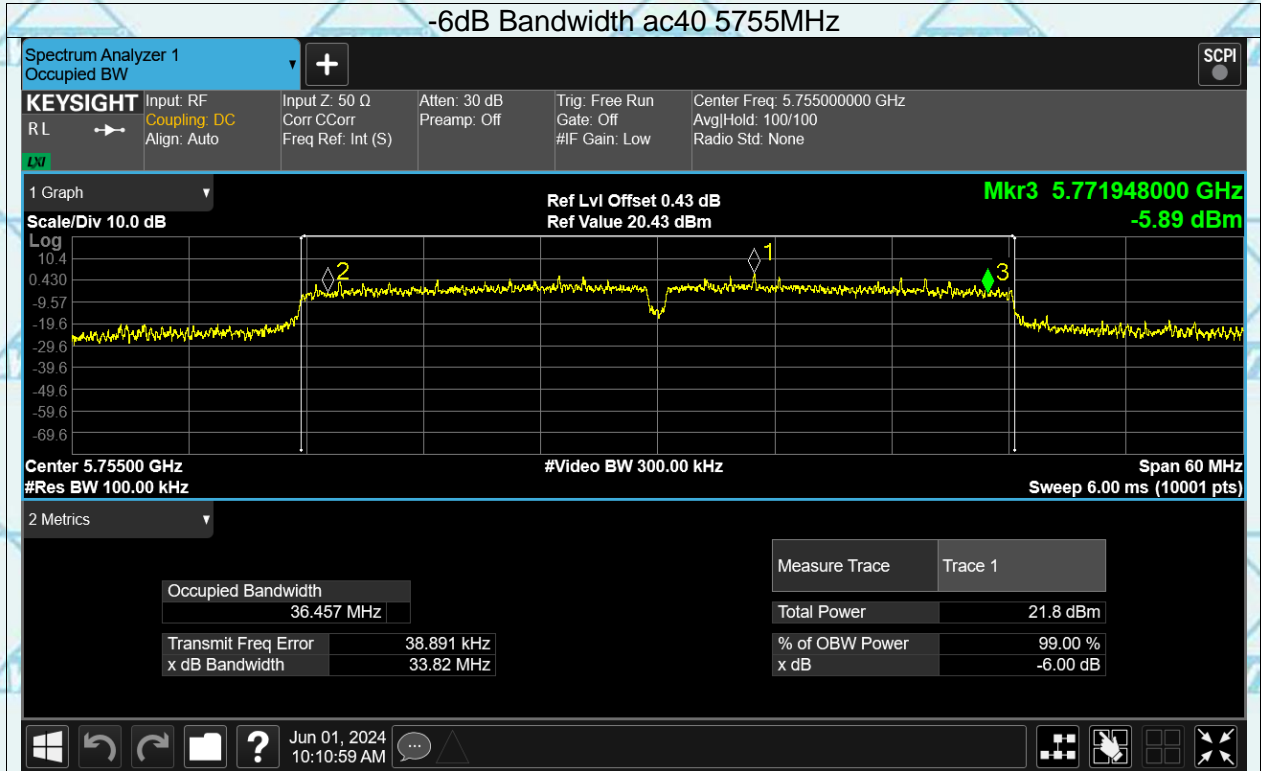
-6dB Bandwidth

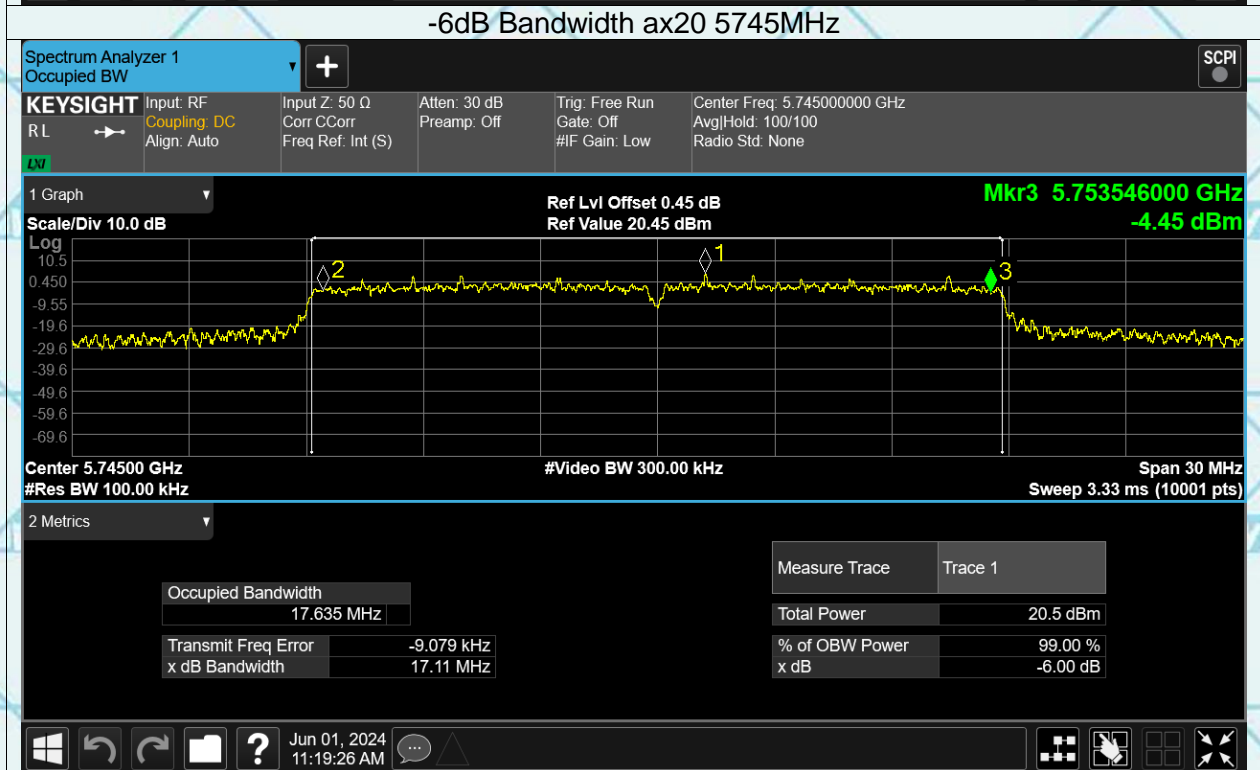
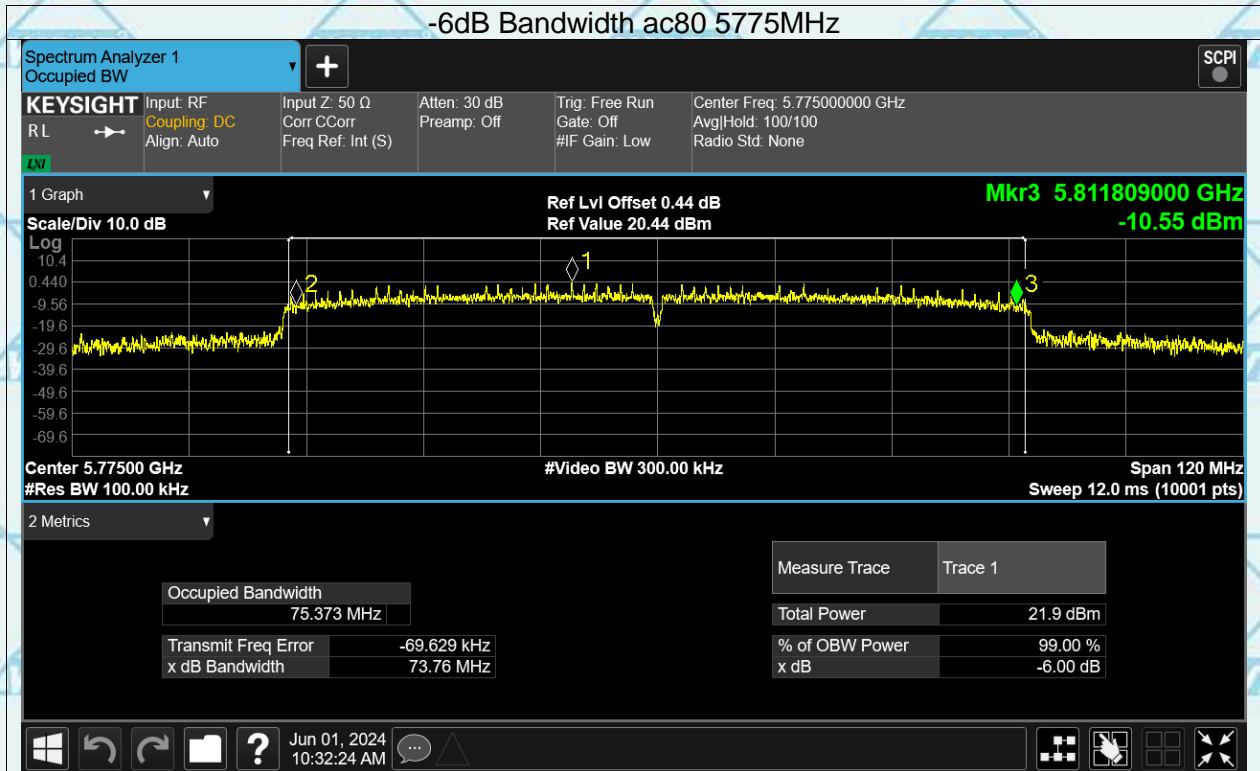


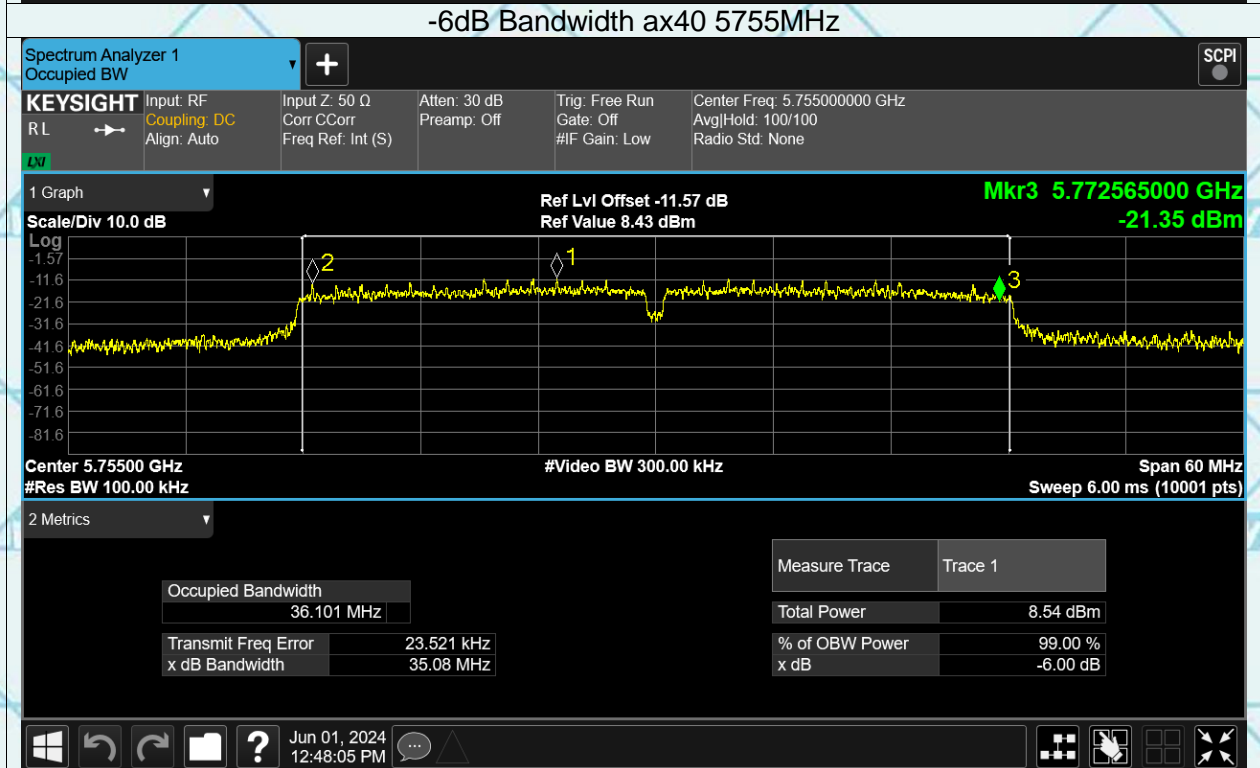
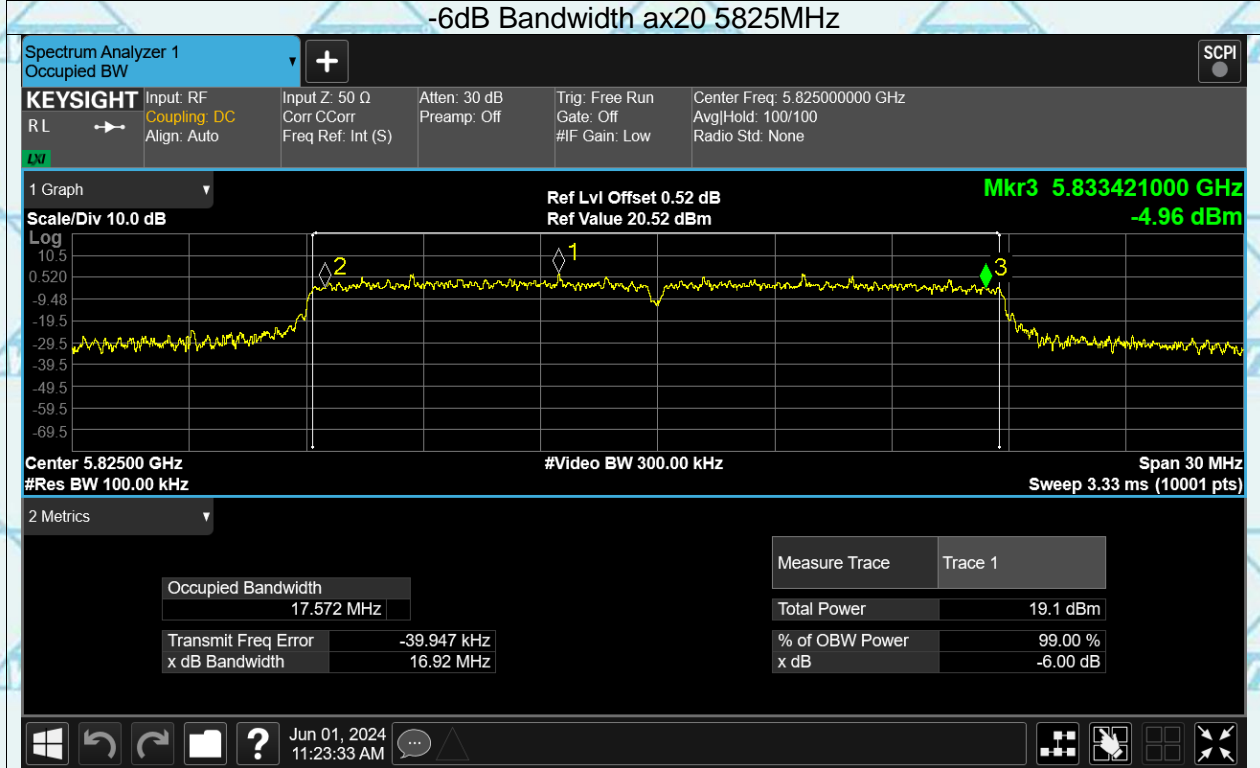


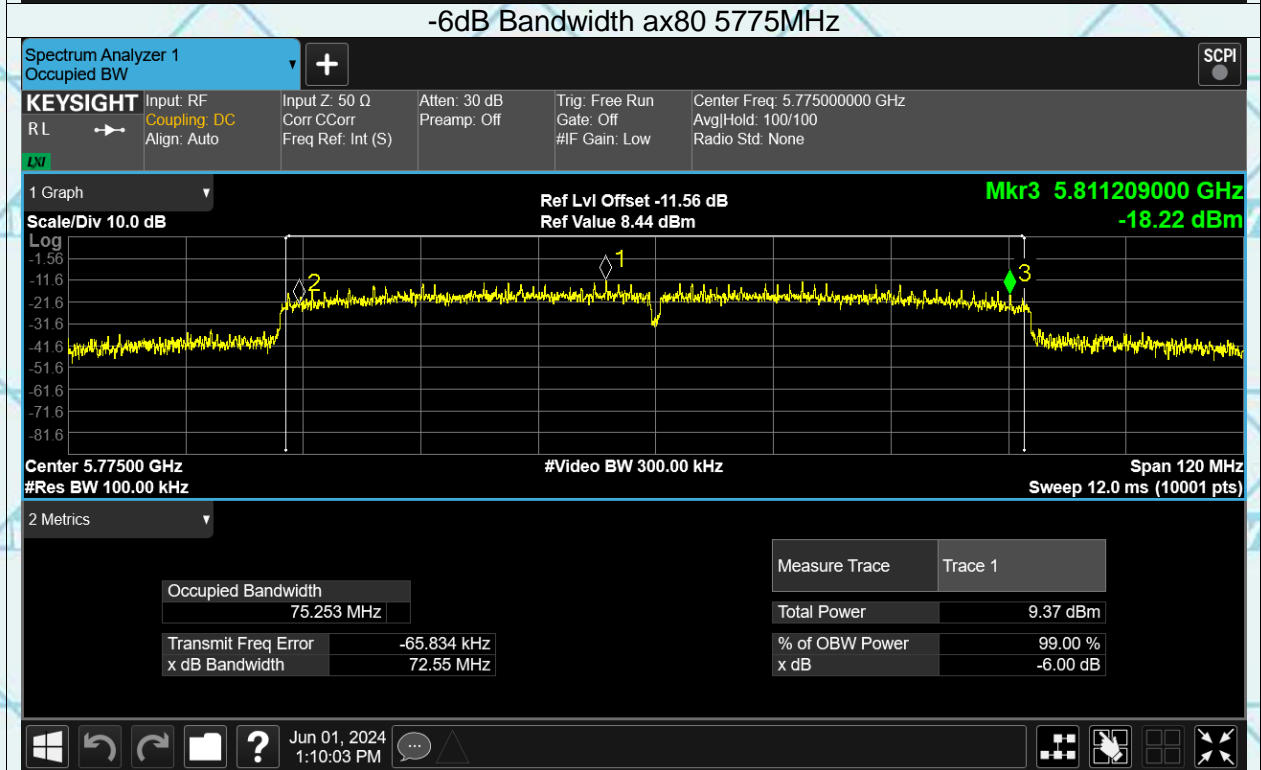
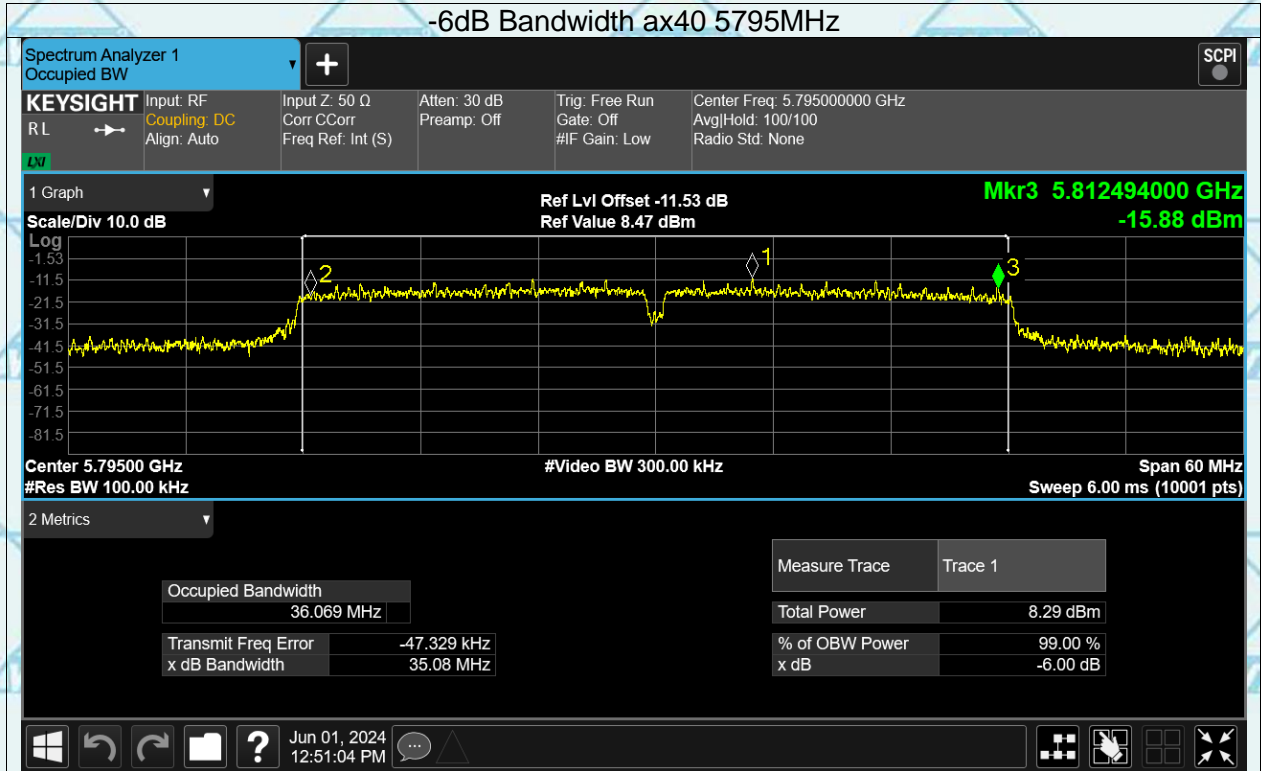














7.5 MAXIMUM CONDUCTED OUTPUT POWER

- (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* = $G_{ANTMAX} + 10 \log(N_{ANT}/N_{SS})$ dBi, where N_{SS} = the number of independent spatial streams of data and G_{ANTMAX} is the gain of the antenna having the highest gain (in dBi).

Or,

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

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= $4.39\text{dBi}+0\text{dB}=4.39\text{dBi}$, 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	: Output Power	Temperature	: 25 °C
Test Voltage	: DC 11.61V	Humidity	: 56%RH
Test Result	: PASS		

MAIN Ant1

Mode	Frequency (MHz)	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
a	5180	16.64	0	16.64	24	Pass
a	5240	14.26	0	14.26	24	Pass
a	5260	13.92	0	13.92	24	Pass
a	5320	13.89	0	13.89	24	Pass
a	5500	13.7	0	13.7	24	Pass
a	5700	14.12	0	14.12	24	Pass
a	5745	14.55	0	14.55	30	Pass
a	5825	14.37	0	14.37	30	Pass
n20	5180	14.16	0	14.16	24	Pass
n20	5240	14.47	0	14.47	24	Pass
n20	5260	13.74	0	13.74	24	Pass
n20	5320	13.41	0	13.41	24	Pass
n20	5500	13.44	0	13.44	24	Pass
n20	5700	14.49	0	14.49	24	Pass
n20	5745	14.87	0	14.87	30	Pass
n20	5825	14.52	0	14.52	30	Pass
n40	5190	5.61	0	5.61	24	Pass
n40	5230	13.13	0	13.13	24	Pass
n40	5270	12.2	0	12.2	24	Pass
n40	5310	12.48	0	12.48	24	Pass
n40	5510	11.48	0	11.48	24	Pass
n40	5670	12.85	0	12.85	24	Pass
n40	5755	15.15	0	15.15	30	Pass
n40	5795	14.54	0	14.54	30	Pass
ac20	5180	7	0	7	24	Pass
ac20	5240	7.32	0	7.32	24	Pass
ac20	5260	6.47	0	6.47	24	Pass
ac20	5320	6.6	0	6.6	24	Pass
ac20	5500	5.94	0	5.94	24	Pass
ac20	5700	7.3	0	7.3	24	Pass
ac20	5745	7.56	0	7.56	30	Pass
ac20	5825	7.44	0	7.44	30	Pass
ac40	5190	13.69	0	13.69	24	Pass
ac40	5230	13.85	0	13.85	24	Pass
ac40	5270	12.95	0	12.95	24	Pass
ac40	5310	12.38	0	12.38	24	Pass
ac40	5510	11.23	0	11.23	24	Pass
ac40	5670	12.69	0	12.69	24	Pass
ac40	5755	14.67	0	14.67	30	Pass
ac40	5795	14.61	0	14.61	30	Pass
ac80	5210	12.48	0	12.48	24	Pass





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ac80	5290	11.71	0	11.71	24	Pass
ac80	5530	10.03	0	10.03	24	Pass
ac80	5610	10.79	0	10.79	24	Pass
ac80	5775	13.02	0	13.02	30	Pass
ax20	5180	15.64	0	15.64	24	Pass
ax20	5240	15.11	0	15.11	24	Pass
ax20	5260	14.25	0	14.25	24	Pass
ax20	5320	14.22	0	14.22	24	Pass
ax20	5500	9.67	0	9.67	24	Pass
ax20	5700	12.18	0	12.18	24	Pass
ax20	5745	13.33	0	13.33	30	Pass
ax20	5825	11.91	0	11.91	30	Pass
ax40	5190	12.02	0	12.02	24	Pass
ax40	5230	10.65	0	10.65	24	Pass
ax40	5270	12.52	0	12.52	24	Pass
ax40	5310	13.98	0	13.98	24	Pass
ax40	5510	13.05	0	13.05	24	Pass
ax40	5670	14	0	14	24	Pass
ax40	5755	13.8	0	13.8	30	Pass
ax40	5795	11.24	0	11.24	30	Pass
ax80	5210	6.83	0	6.83	24	Pass
ax80	5290	9.89	0	9.89	24	Pass
ax80	5530	9.71	0	9.71	24	Pass
ax80	5610	9.23	0	9.23	24	Pass
ax80	5775	10.59	0	10.59	30	Pass





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AUX Ant2

Mode	Frequency (MHz)	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
a	5180	18.53	0	18.53	24	Pass
a	5240	15.76	0	15.76	24	Pass
a	5260	15.36	0	15.36	24	Pass
a	5320	15.56	0	15.56	24	Pass
a	5500	14.5	0	14.5	24	Pass
a	5700	14.67	0	14.67	24	Pass
a	5745	15.56	0	15.56	30	Pass
a	5825	15.04	0	15.04	30	Pass
n20	5180	16.26	0	16.26	24	Pass
n20	5240	15.87	0	15.87	24	Pass
n20	5260	15.5	0	15.5	24	Pass
n20	5320	15.18	0	15.18	24	Pass
n20	5500	14.8	0	14.8	24	Pass
n20	5700	14.23	0	14.23	24	Pass
n20	5745	15.46	0	15.46	30	Pass
n20	5825	14.84	0	14.84	30	Pass
n40	5190	15.53	0	15.53	24	Pass
n40	5230	14.08	0	14.08	24	Pass
n40	5270	14.05	0	14.05	24	Pass
n40	5310	14.33	0	14.33	24	Pass
n40	5510	12.99	0	12.99	24	Pass
n40	5670	14.06	0	14.06	24	Pass
n40	5755	14.21	0	14.21	30	Pass
n40	5795	14.41	0	14.41	30	Pass
ac20	5180	16.56	0	16.56	24	Pass
ac20	5240	15.67	0	15.67	24	Pass
ac20	5260	15.18	0	15.18	24	Pass
ac20	5320	15.62	0	15.62	24	Pass
ac20	5500	14.28	0	14.28	24	Pass
ac20	5700	14.56	0	14.56	24	Pass
ac20	5745	15.75	0	15.75	30	Pass
ac20	5825	14.76	0	14.76	30	Pass
ac40	5190	16.36	0	16.36	24	Pass
ac40	5230	15.24	0	15.24	24	Pass
ac40	5270	14.23	0	14.23	24	Pass
ac40	5310	15.09	0	15.09	24	Pass
ac40	5510	13.23	0	13.23	24	Pass
ac40	5670	14.05	0	14.05	24	Pass
ac40	5755	14.81	0	14.81	30	Pass
ac40	5795	14.61	0	14.61	30	Pass
ac80	5210	13.78	0	13.78	24	Pass
ac80	5290	13.3	0	13.3	24	Pass
ac80	5530	12.31	0	12.31	24	Pass
ac80	5610	13.56	0	13.56	24	Pass
ac80	5775	13.36	0	13.36	30	Pass
ax20	5180	16.27	0	16.27	24	Pass
ax20	5240	15.54	0	15.54	24	Pass
ax20	5260	14.96	0	14.96	24	Pass





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ax20	5320	14.91	0	14.91	24	Pass
ax20	5500	13.68	0	13.68	24	Pass
ax20	5700	14.38	0	14.38	24	Pass
ax20	5745	14.92	0	14.92	30	Pass
ax20	5825	14.09	0	14.09	30	Pass
ax40	5190	15.24	0	15.24	24	Pass
ax40	5230	13.85	0	13.85	24	Pass
ax40	5270	13.52	0	13.52	24	Pass
ax40	5310	12.8	0	12.8	24	Pass
ax40	5510	12.75	0	12.75	24	Pass
ax40	5670	13.2	0	13.2	24	Pass
ax40	5755	13.89	0	13.89	30	Pass
ax40	5795	13.85	0	13.85	30	Pass
ax80	5210	12.84	0	12.84	24	Pass
ax80	5290	12.38	0	12.38	24	Pass
ax80	5530	11.28	0	11.28	24	Pass
ax80	5610	11.77	0	11.77	24	Pass
ax80	5775	12.77	0	12.77	30	Pass

MiMO Mode

Mode	Frequency (MHz)	Total Power (dBm)	Limit (dBm)	Verdict
n20	5180	18.35	24	Pass
n20	5240	18.24	24	Pass
n20	5260	17.72	24	Pass
n20	5320	17.39	24	Pass
n20	5500	17.18	24	Pass
n20	5700	17.37	24	Pass
n20	5745	18.19	30	Pass
n20	5825	17.69	30	Pass
n40	5190	15.95	24	Pass
n40	5230	16.64	24	Pass
n40	5270	16.23	24	Pass
n40	5310	16.51	24	Pass
n40	5510	15.31	24	Pass
n40	5670	16.51	24	Pass
n40	5755	17.72	30	Pass
n40	5795	17.49	30	Pass
ac20	5180	17.02	24	Pass
ac20	5240	16.26	24	Pass
ac20	5260	15.73	24	Pass
ac20	5320	16.13	24	Pass
ac20	5500	14.87	24	Pass
ac20	5700	15.31	24	Pass
ac20	5745	16.36	30	Pass
ac20	5825	15.5	30	Pass
ac40	5190	18.24	24	Pass
ac40	5230	17.61	24	Pass
ac40	5270	16.65	24	Pass
ac40	5310	16.95	24	Pass
ac40	5510	15.35	24	Pass





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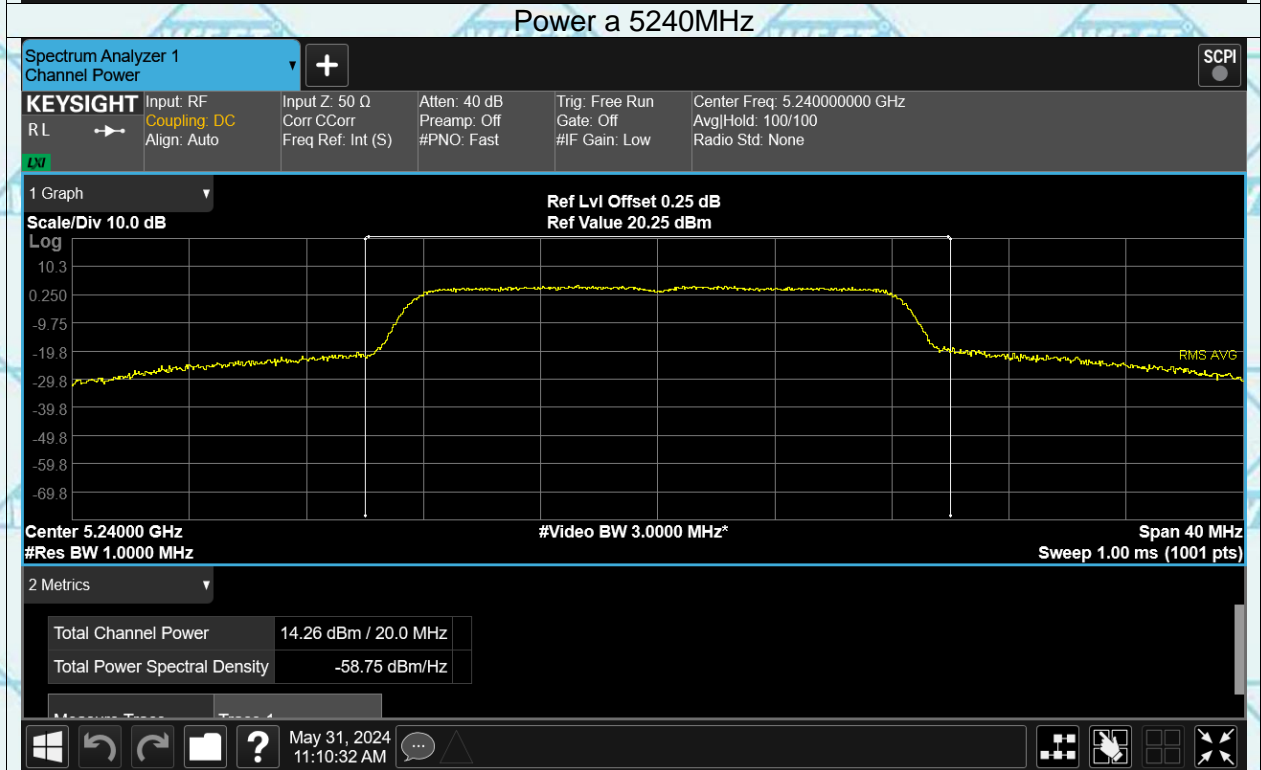
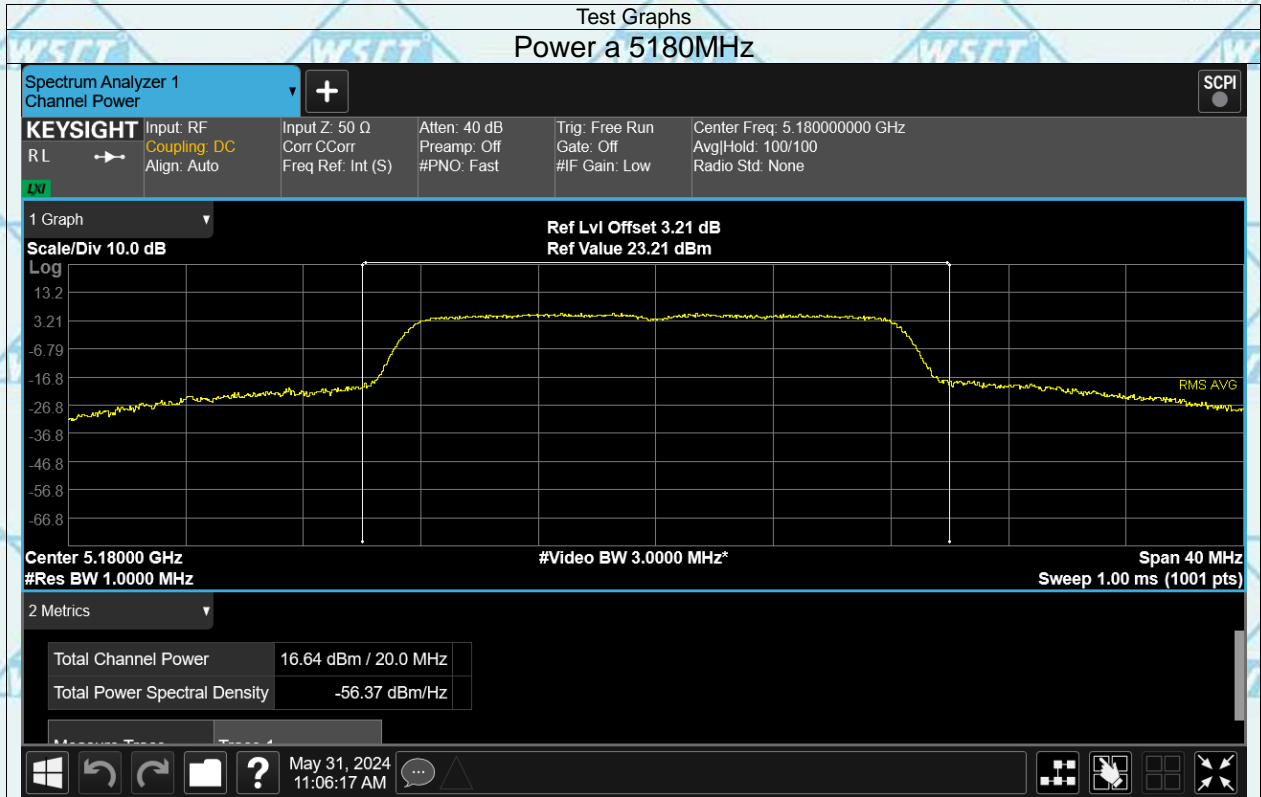
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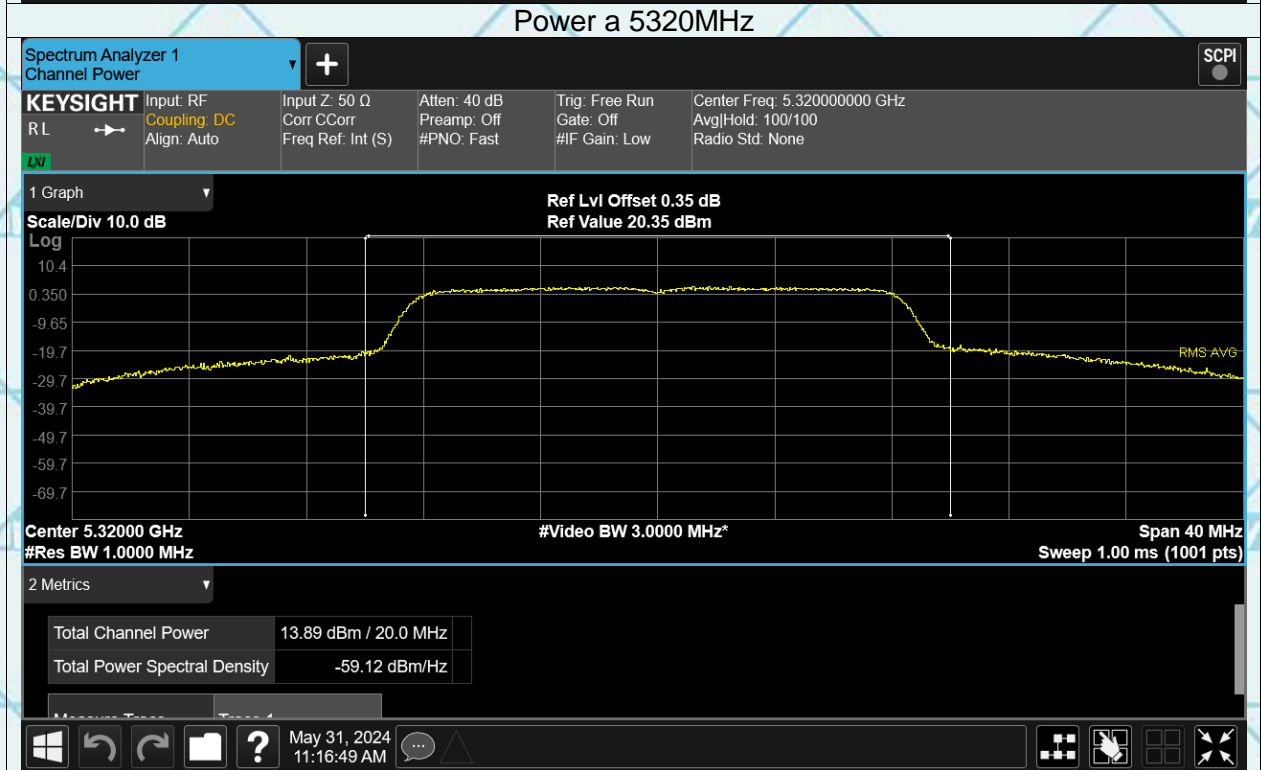
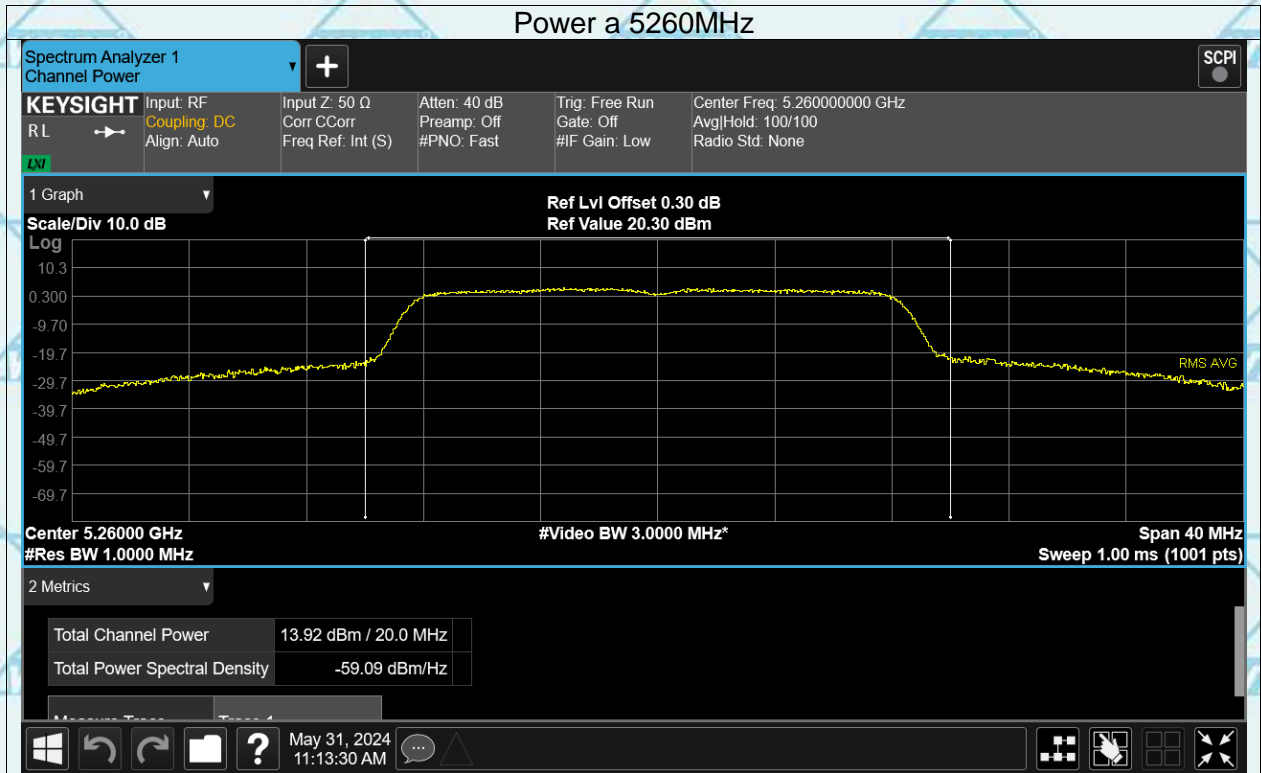
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ac40	5755	17.75	30	Pass
ac40	5795	17.62	30	Pass
ac80	5210	16.19	24	Pass
ac80	5290	15.59	24	Pass
ac80	5530	14.33	24	Pass
ac80	5610	15.40	24	Pass
ac80	5775	16.20	30	Pass
ax20	5180	18.98	24	Pass
ax20	5240	18.34	24	Pass
ax20	5260	17.63	24	Pass
ax20	5320	17.59	24	Pass
ax20	5500	15.13	24	Pass
ax20	5700	16.43	24	Pass
ax20	5745	17.21	30	Pass
ax20	5825	16.15	30	Pass
ax40	5190	16.93	24	Pass
ax40	5230	15.55	24	Pass
ax40	5270	16.06	24	Pass
ax40	5310	16.44	24	Pass
ax40	5510	15.91	24	Pass
ax40	5670	16.63	24	Pass
ax40	5755	16.86	30	Pass
ax40	5795	15.75	30	Pass
ax80	5210	13.81	24	Pass
ax80	5290	14.32	24	Pass
ax80	5530	13.58	24	Pass
ax80	5610	13.69	24	Pass
ax80	5775	14.83	30	Pass

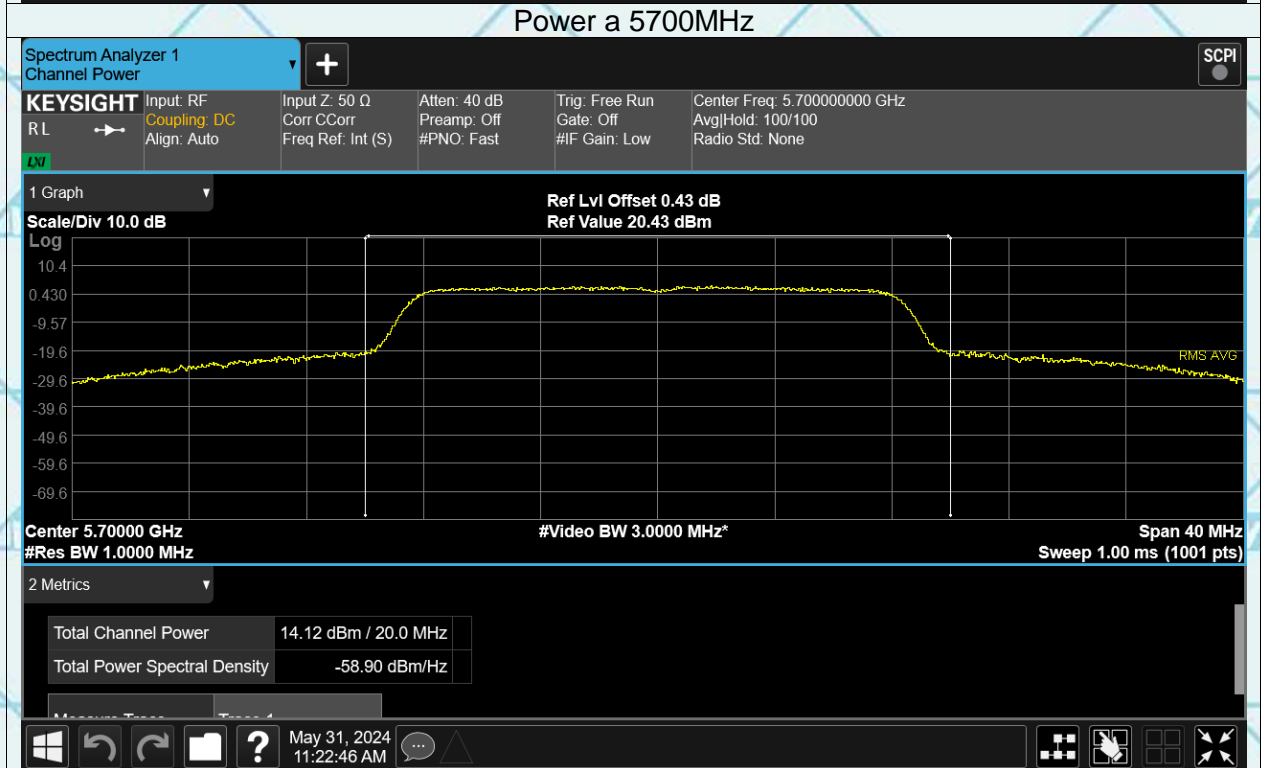
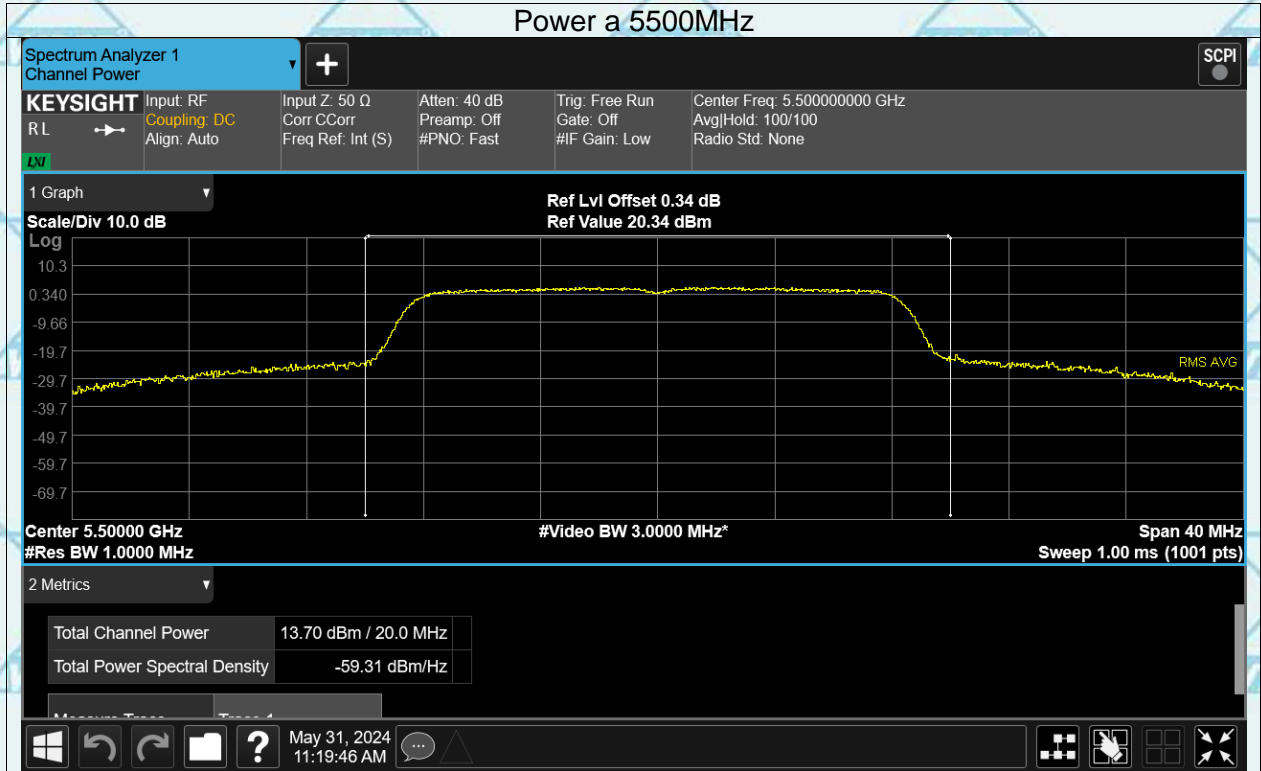


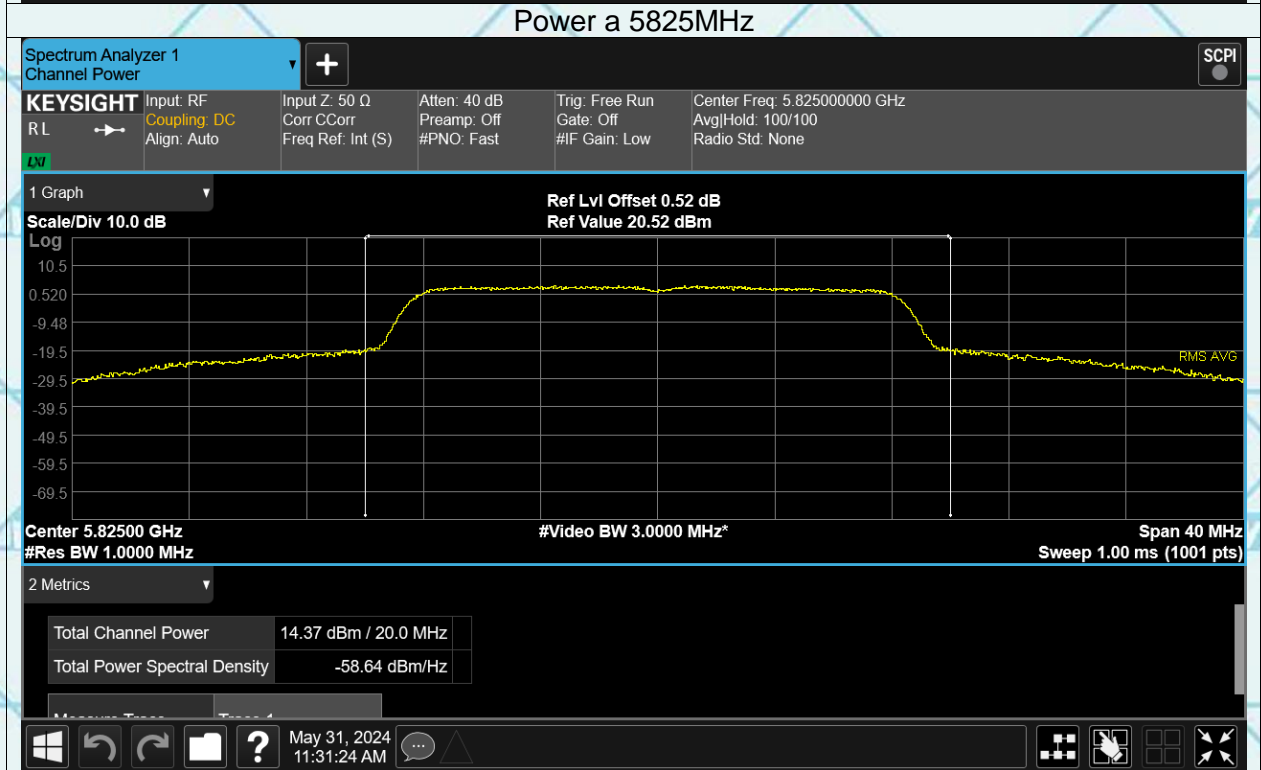
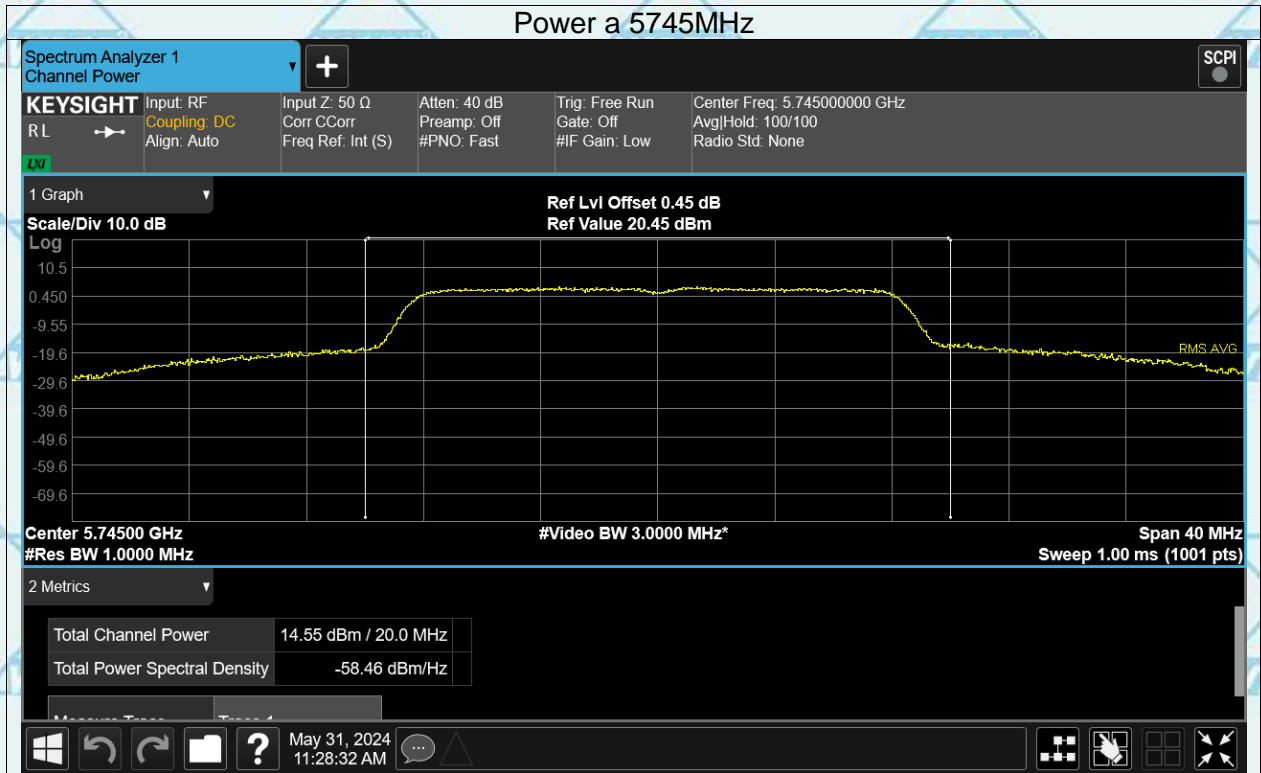


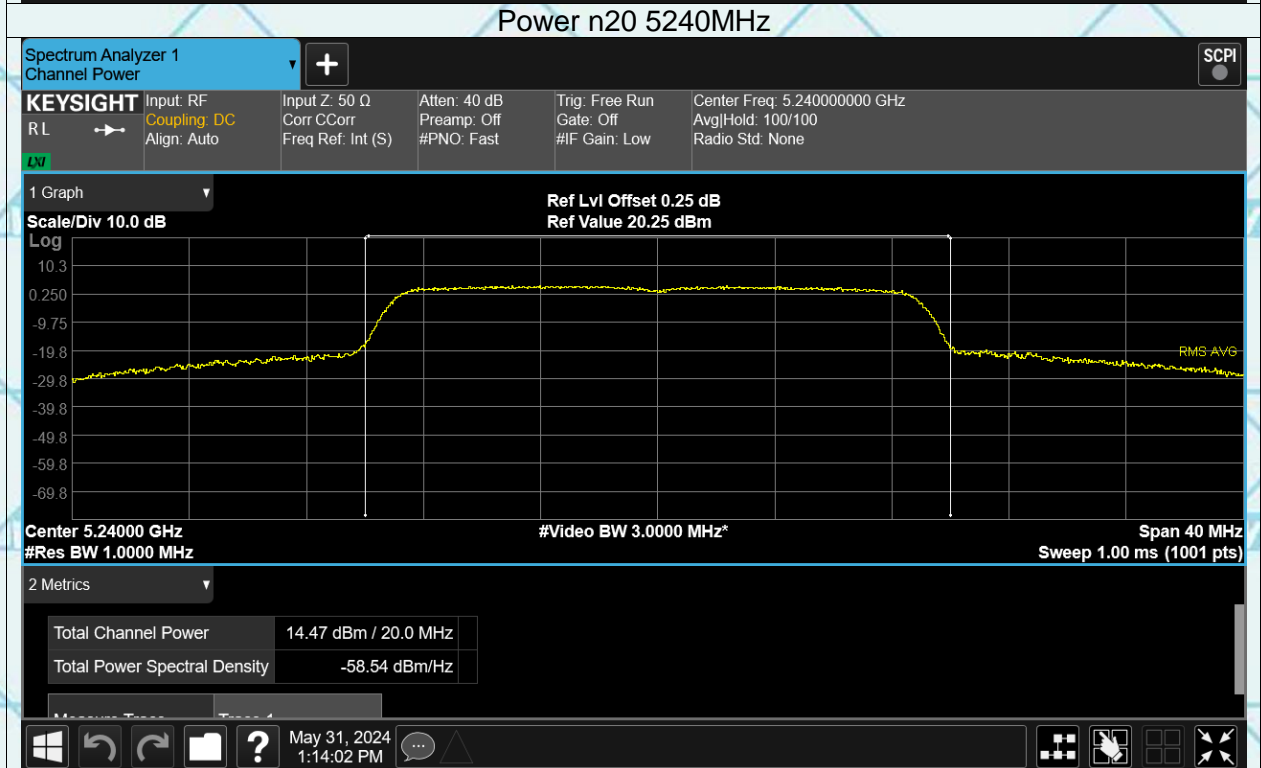
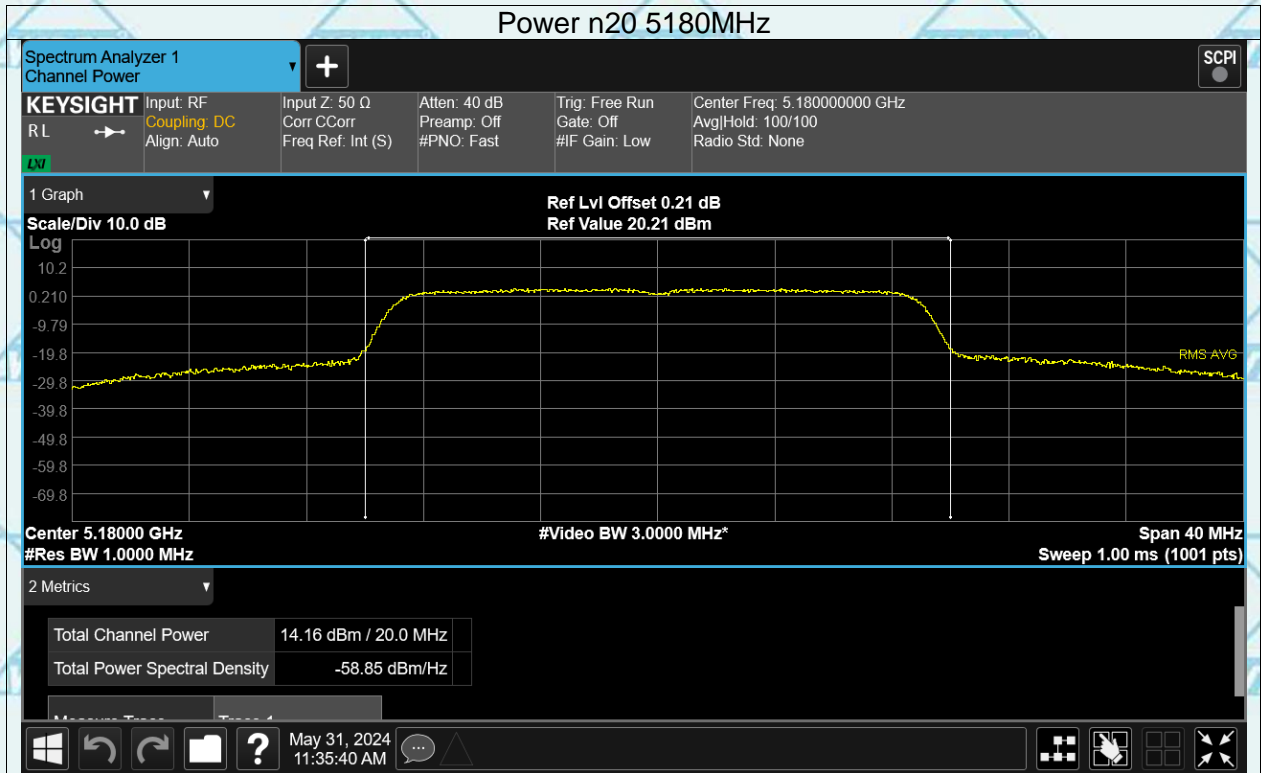
MAIN Ant1

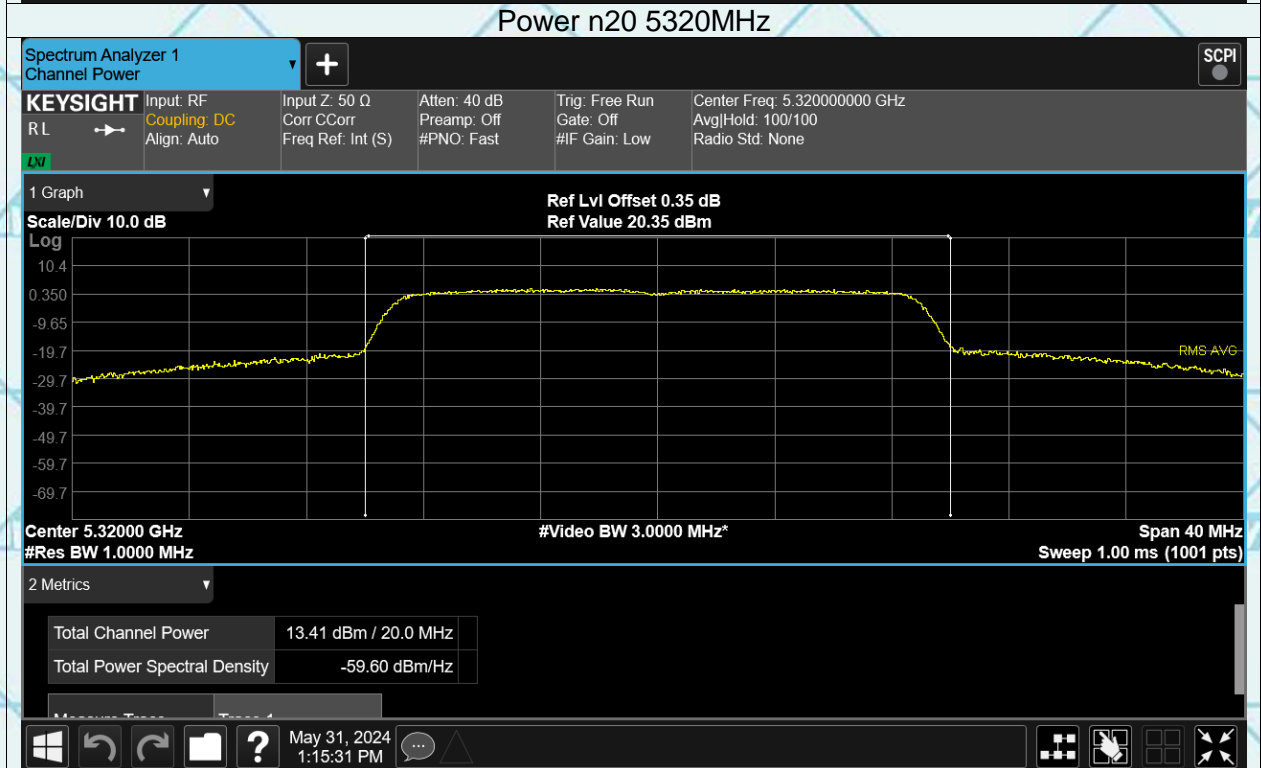
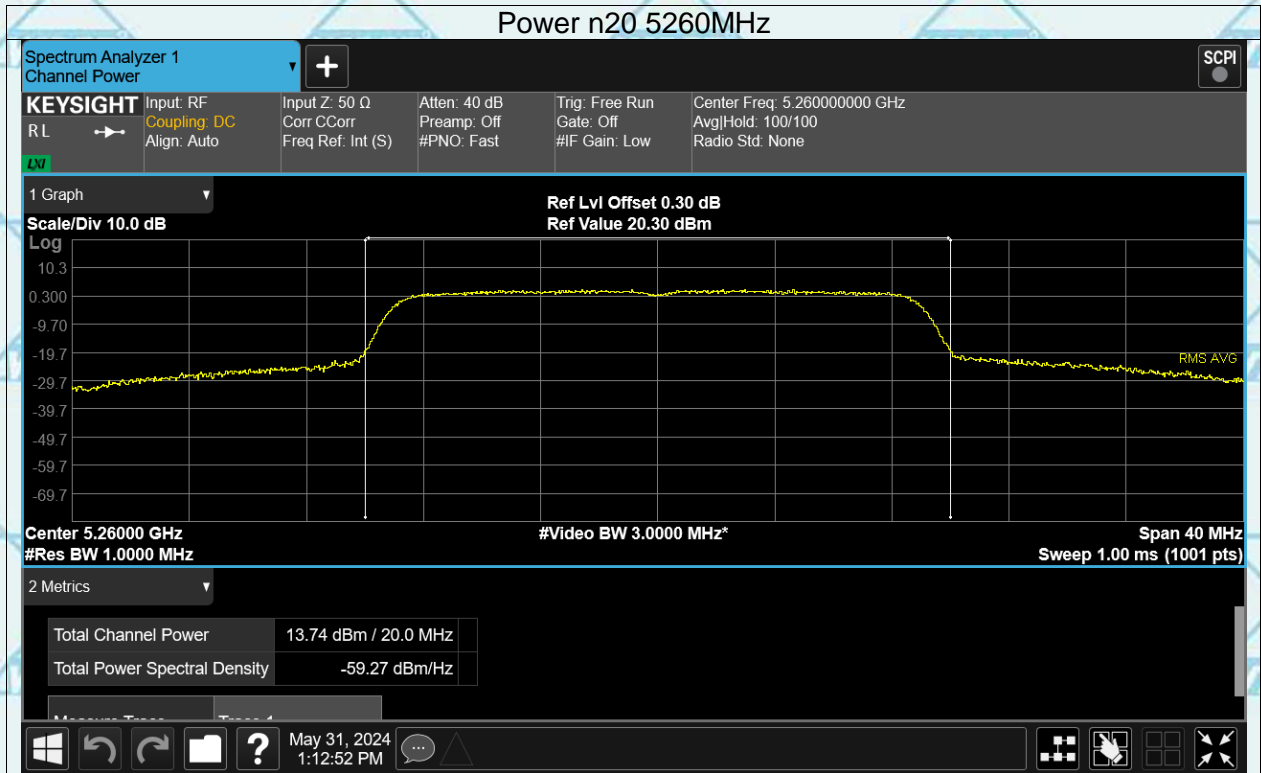


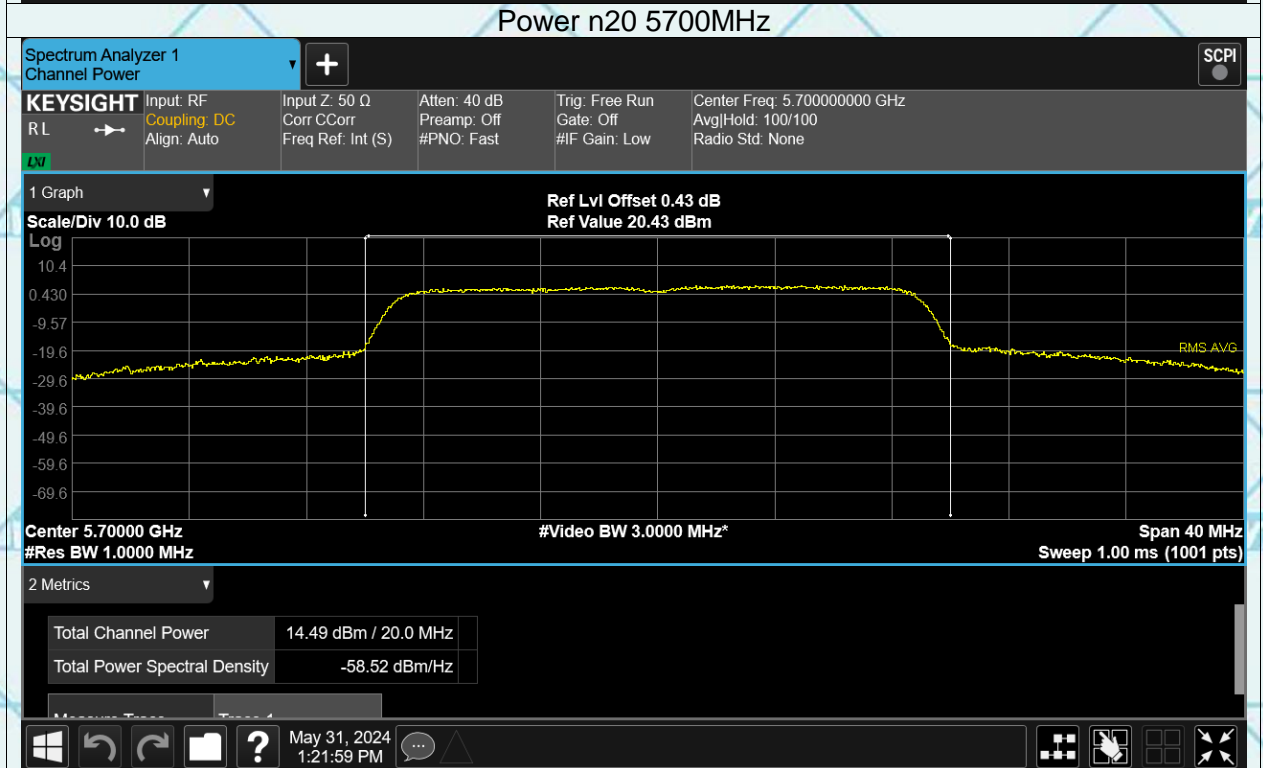
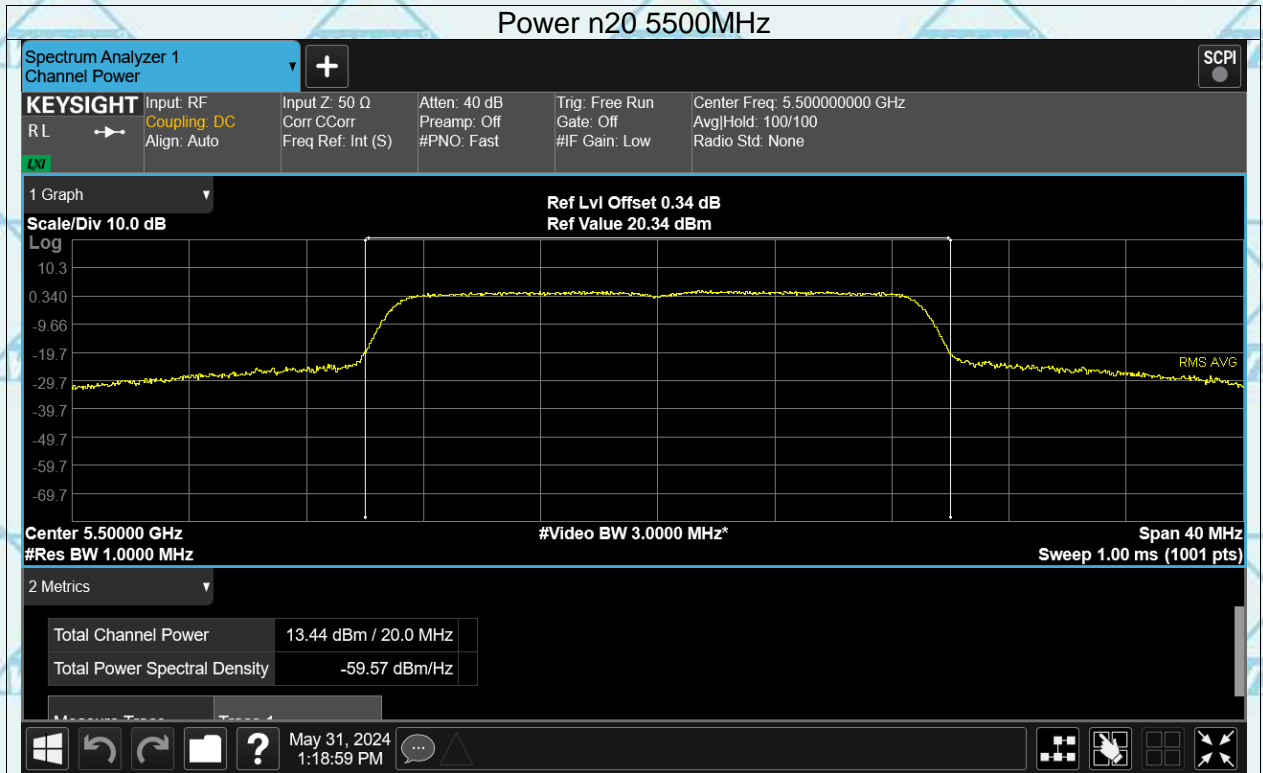






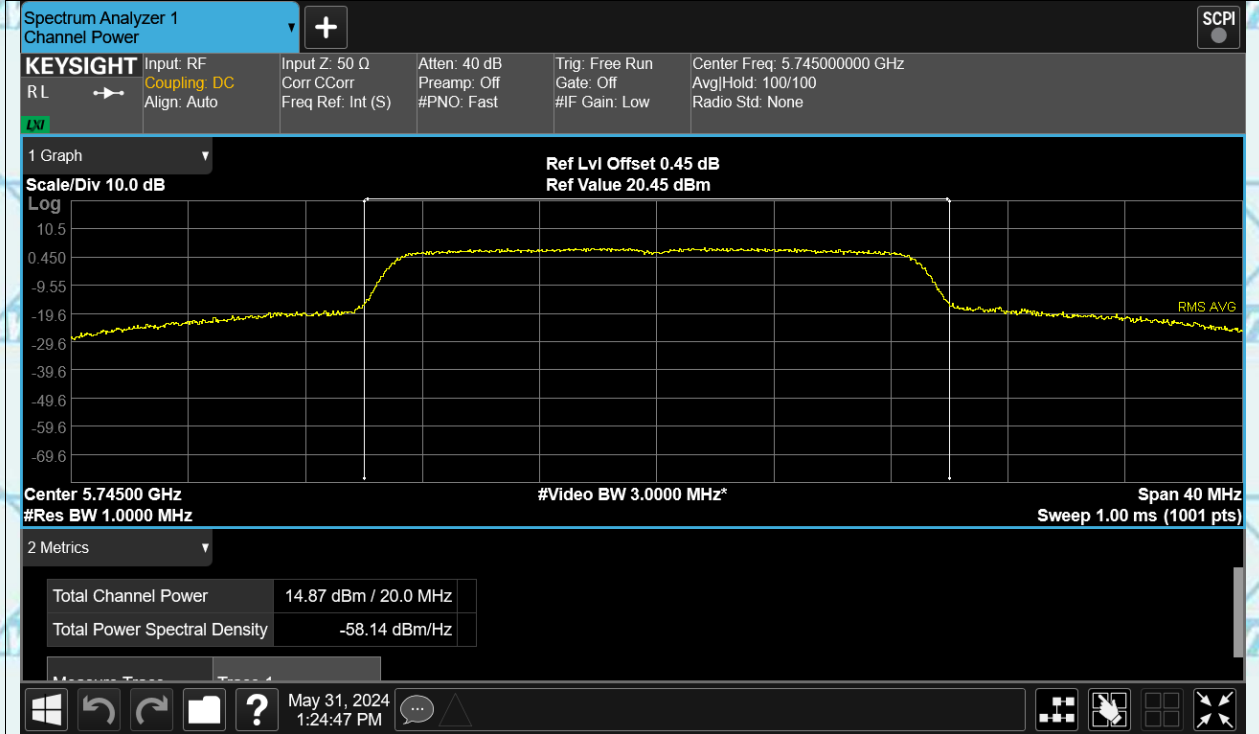




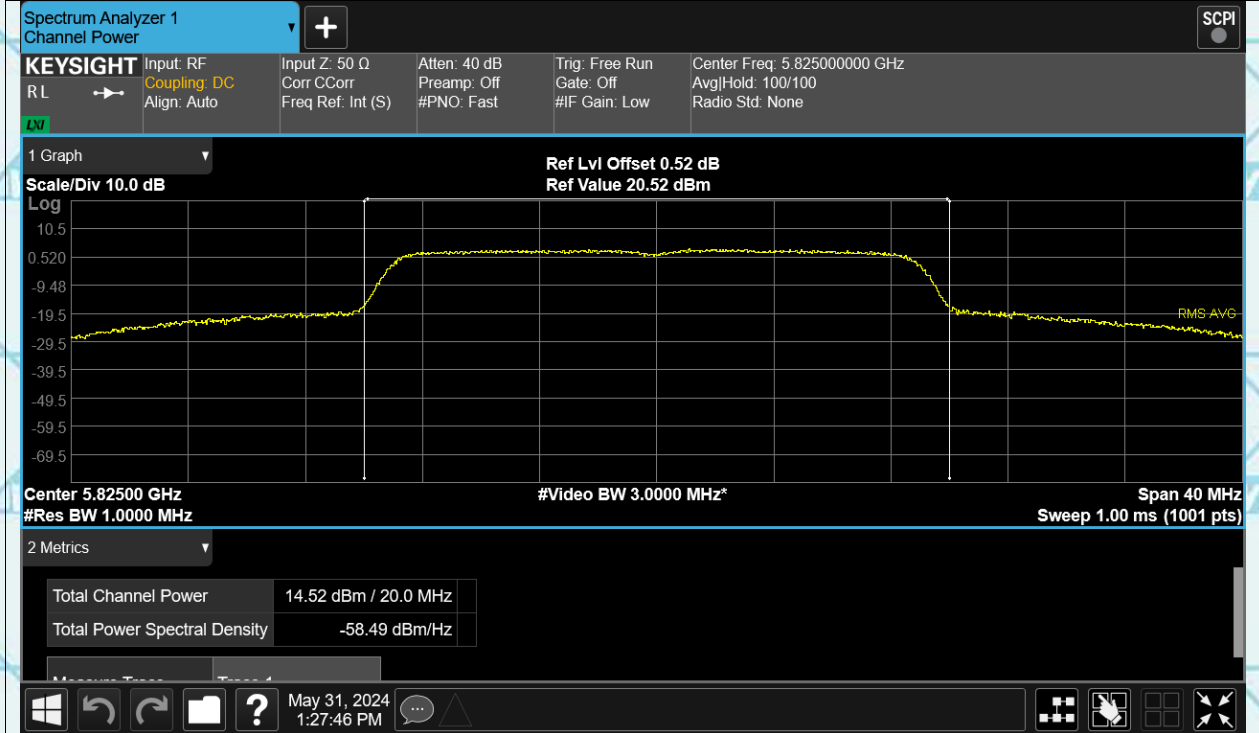


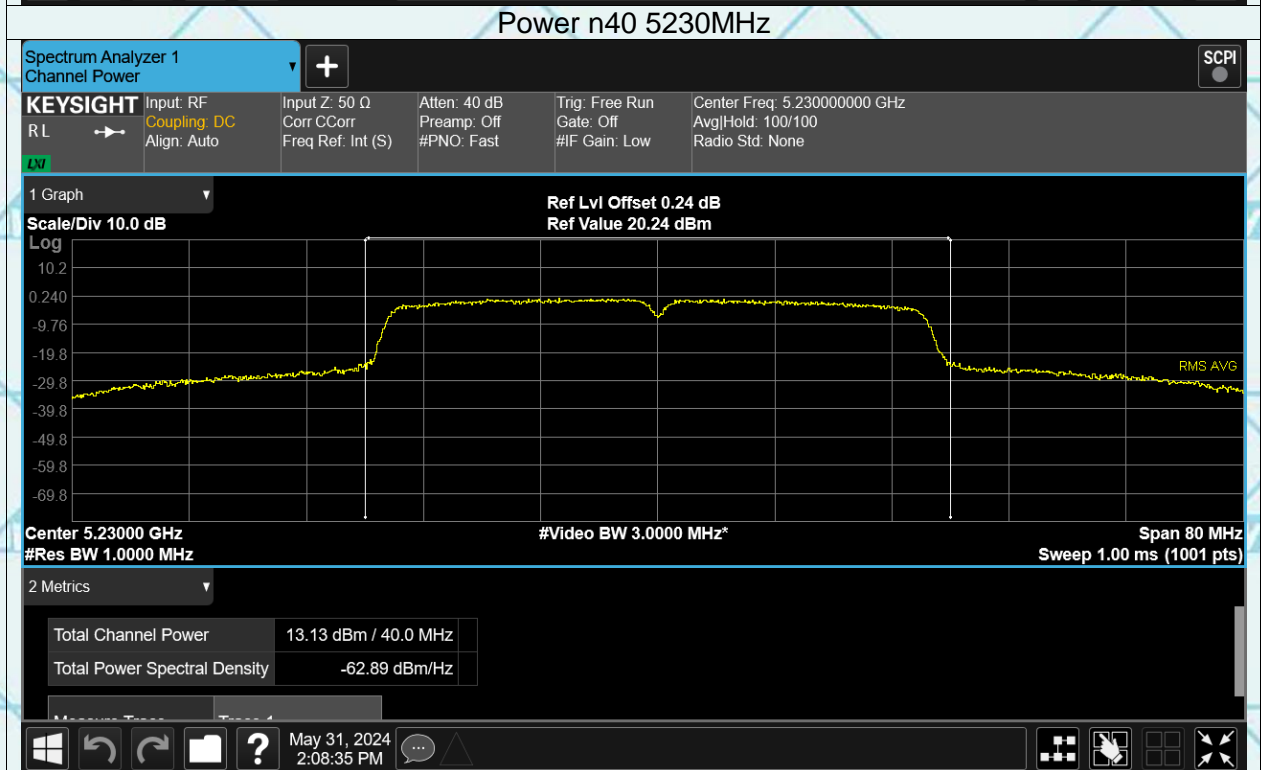
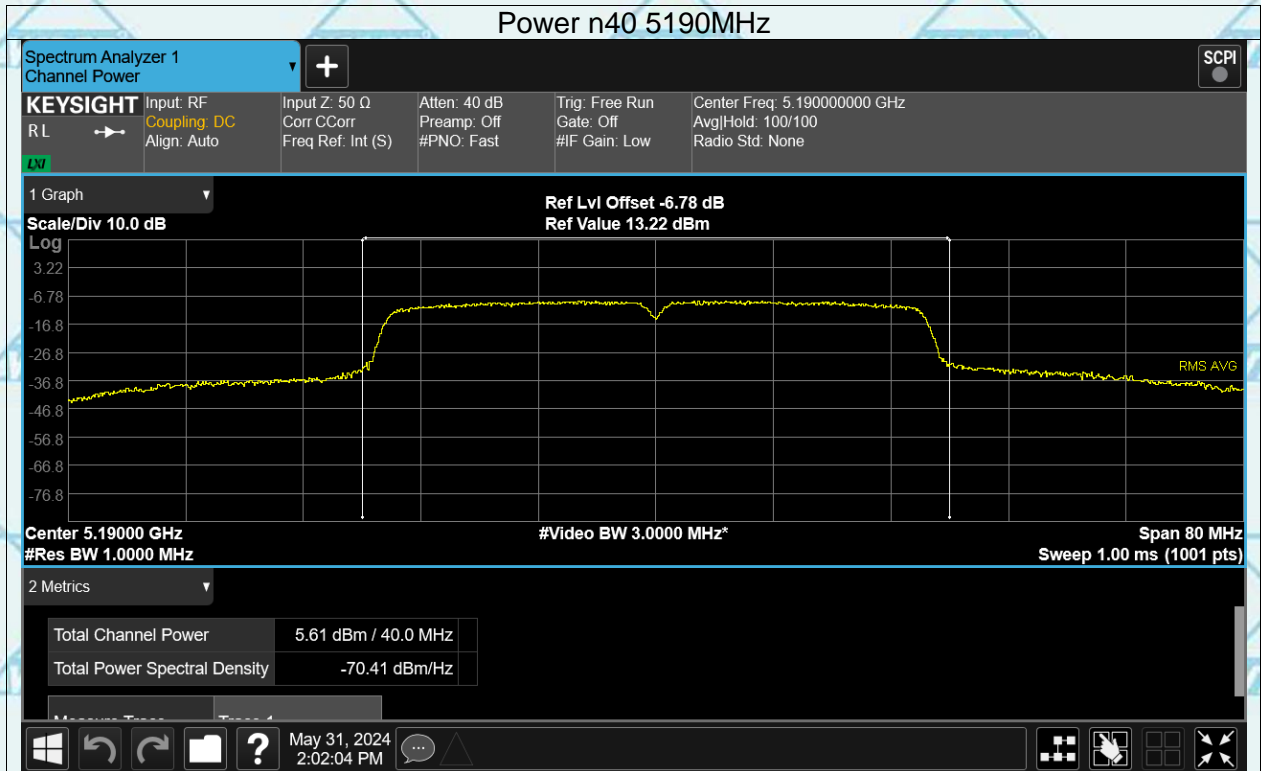


Power n20 5745MHz



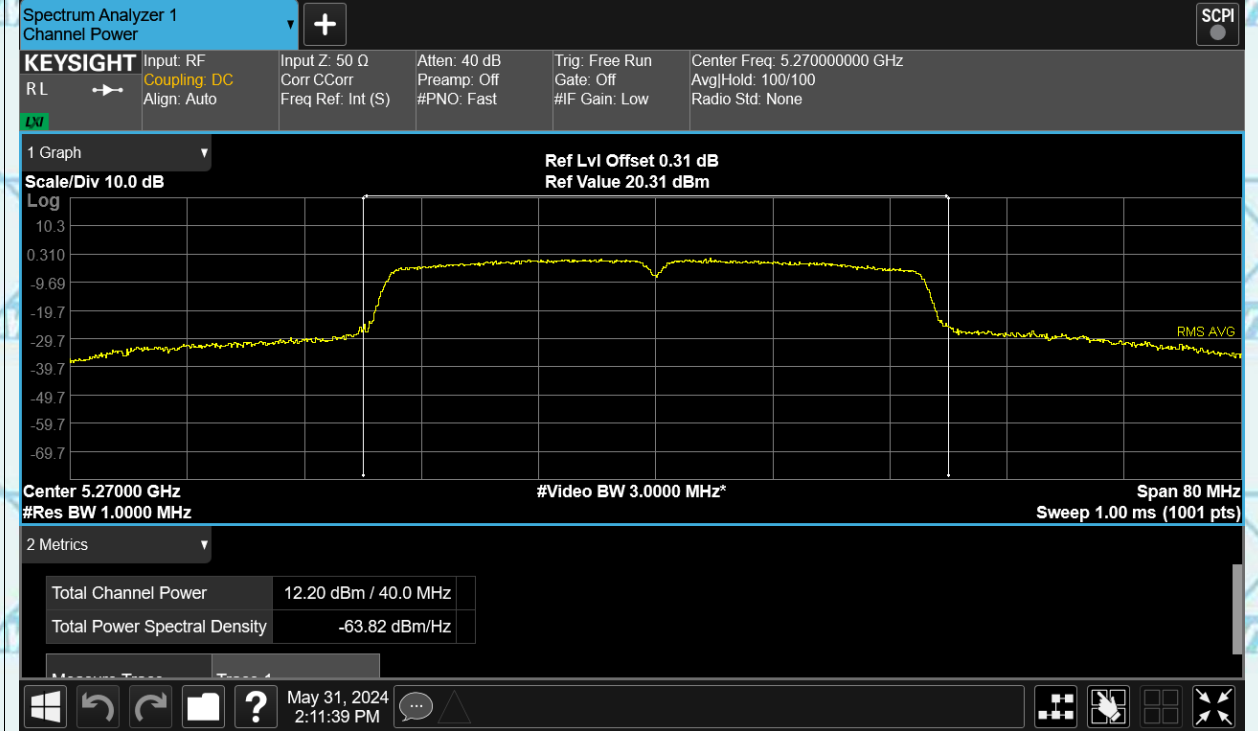
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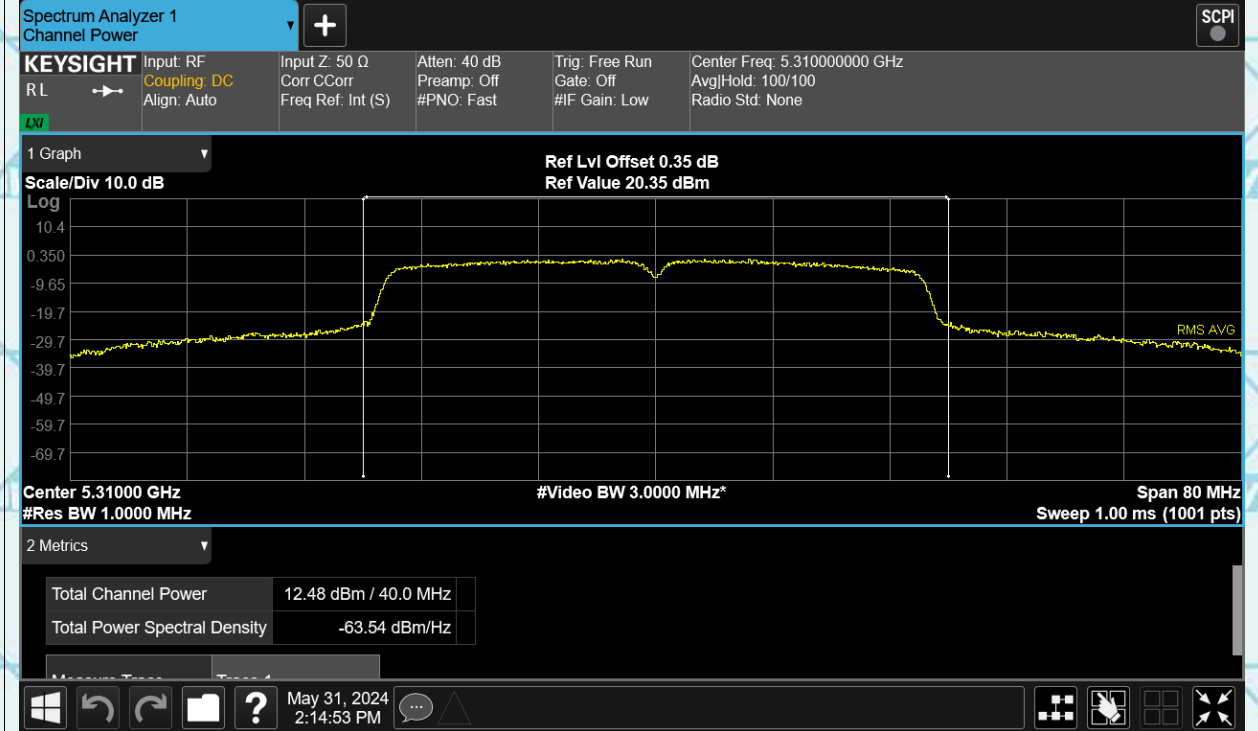


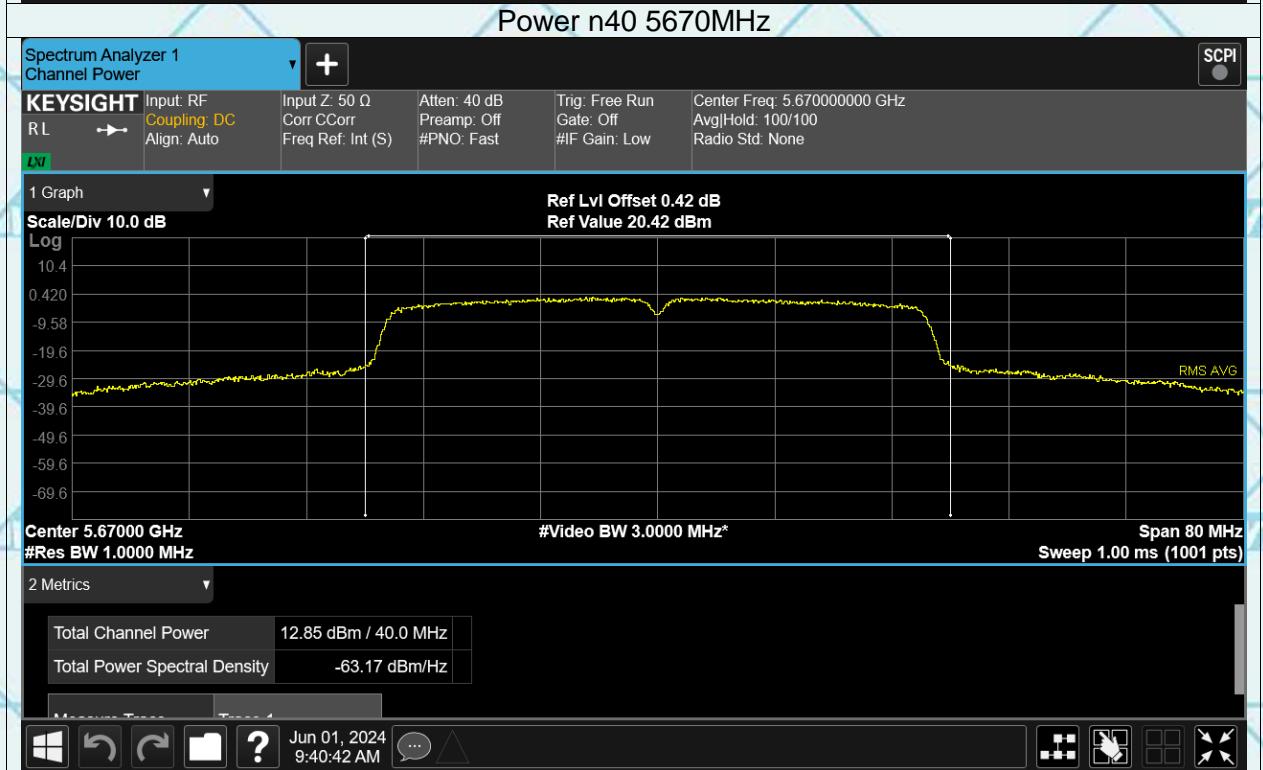
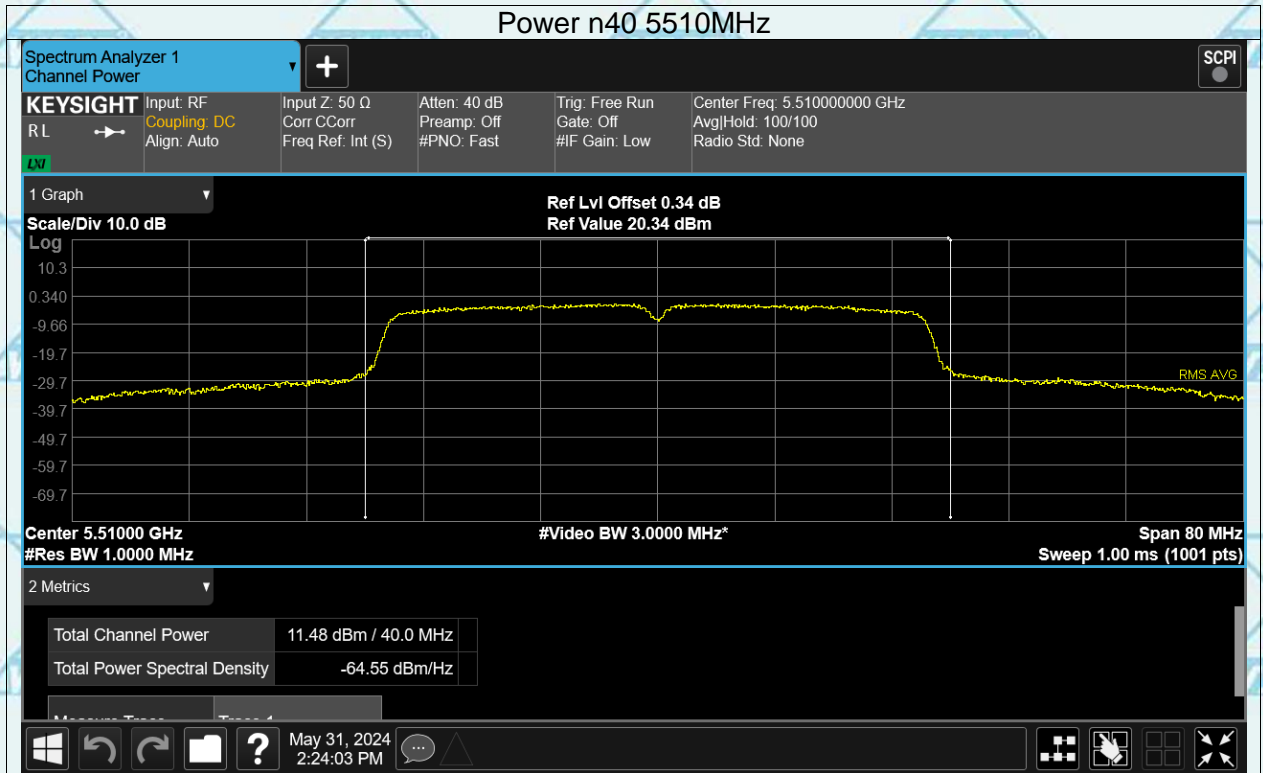


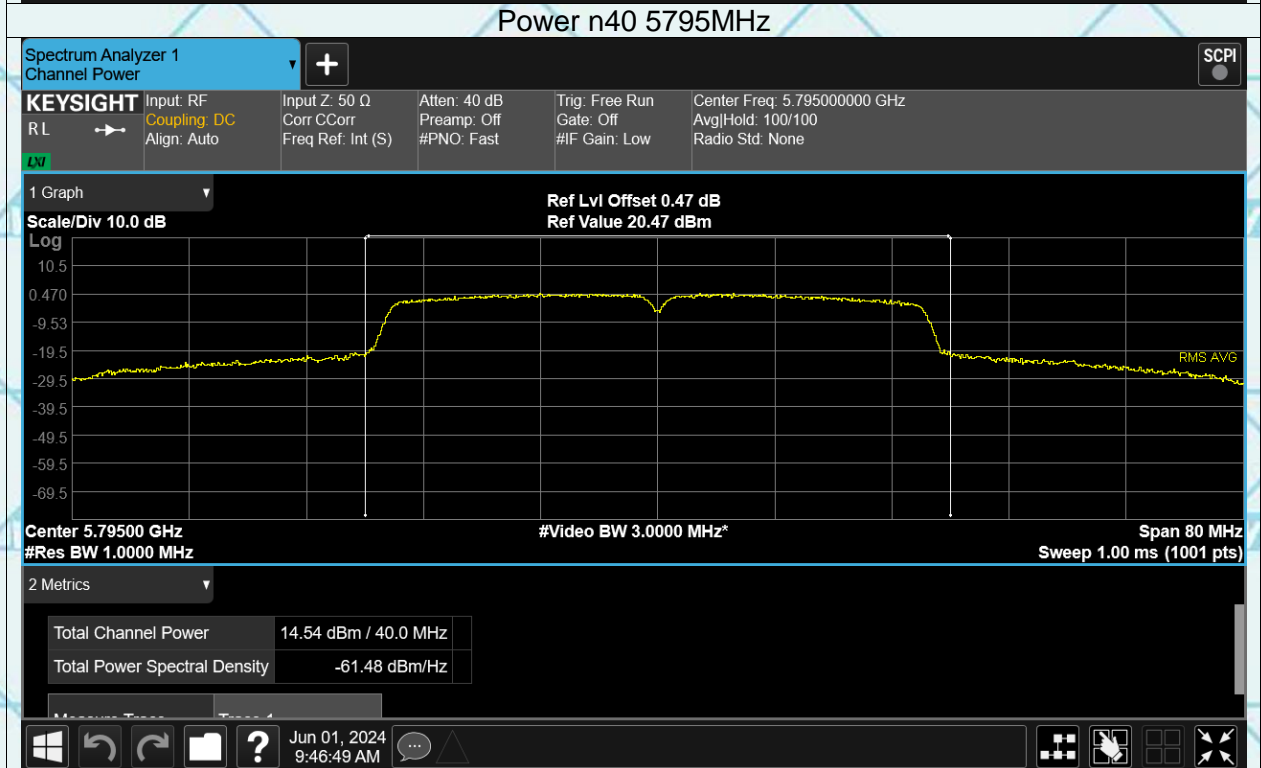
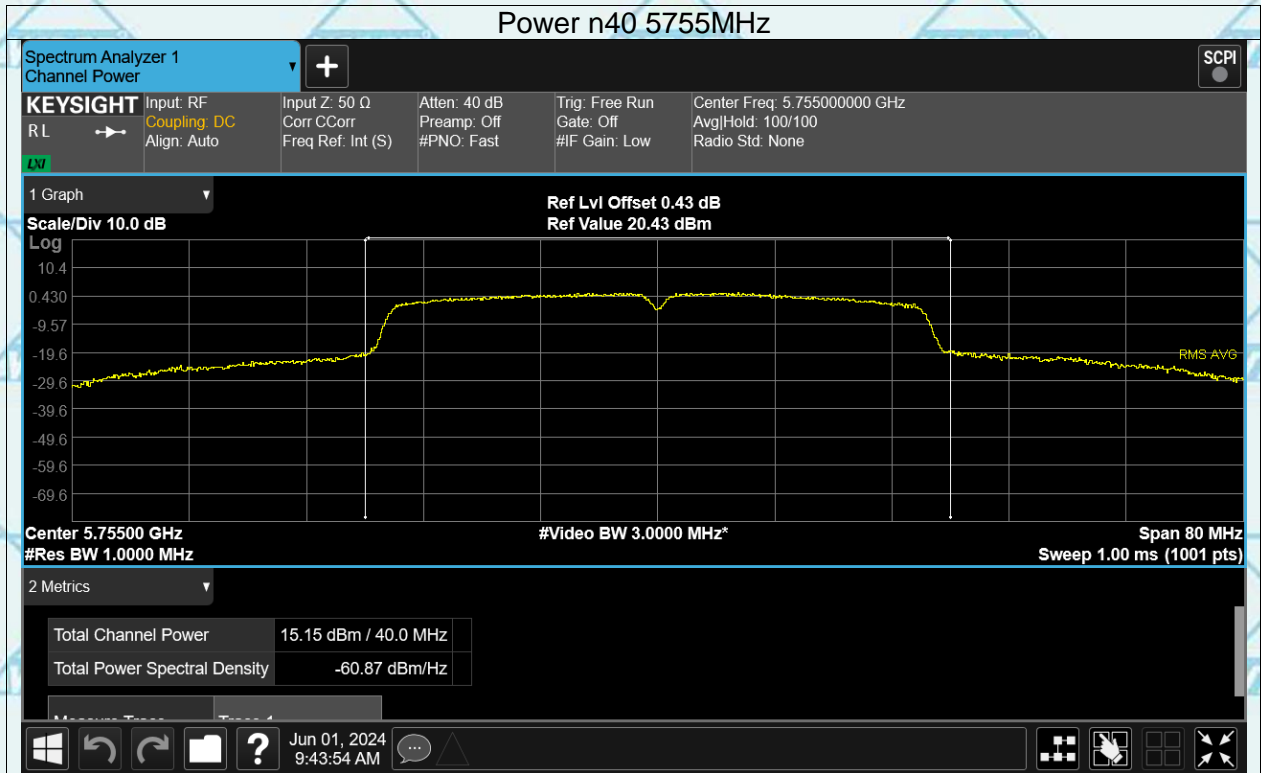
Power n40 5270MHz



Power n40 5310MHz

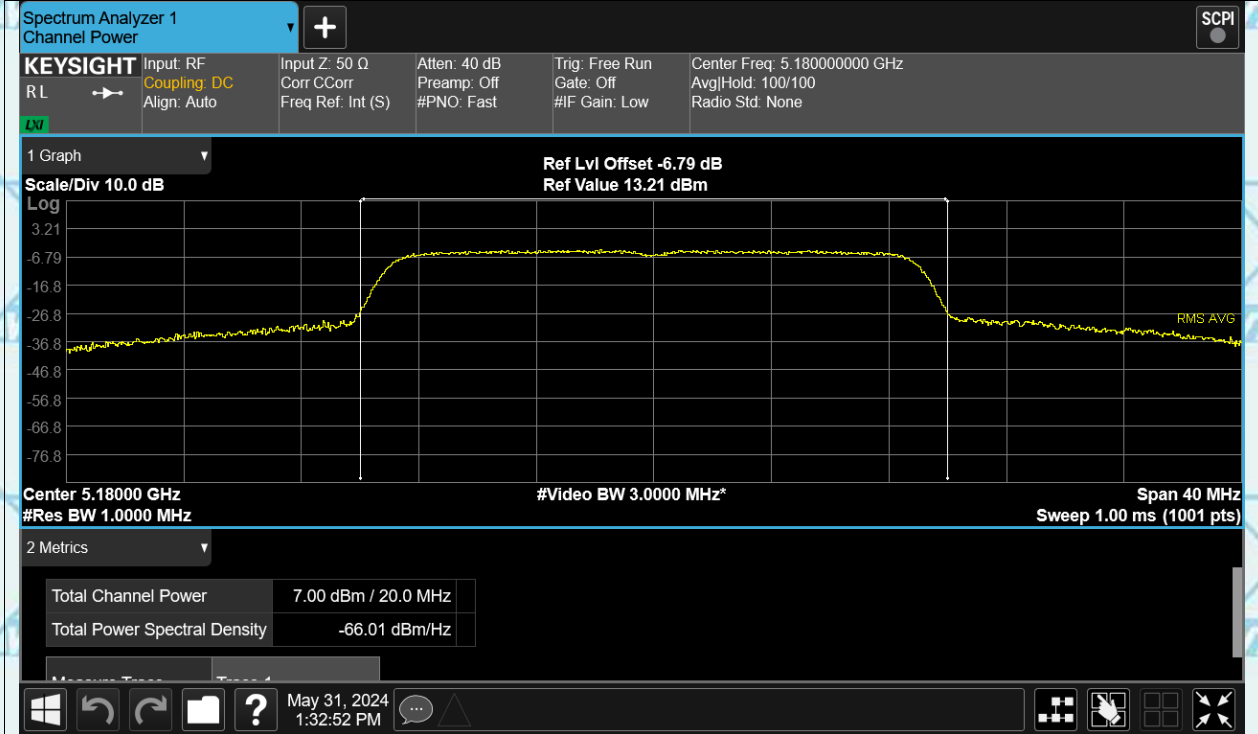




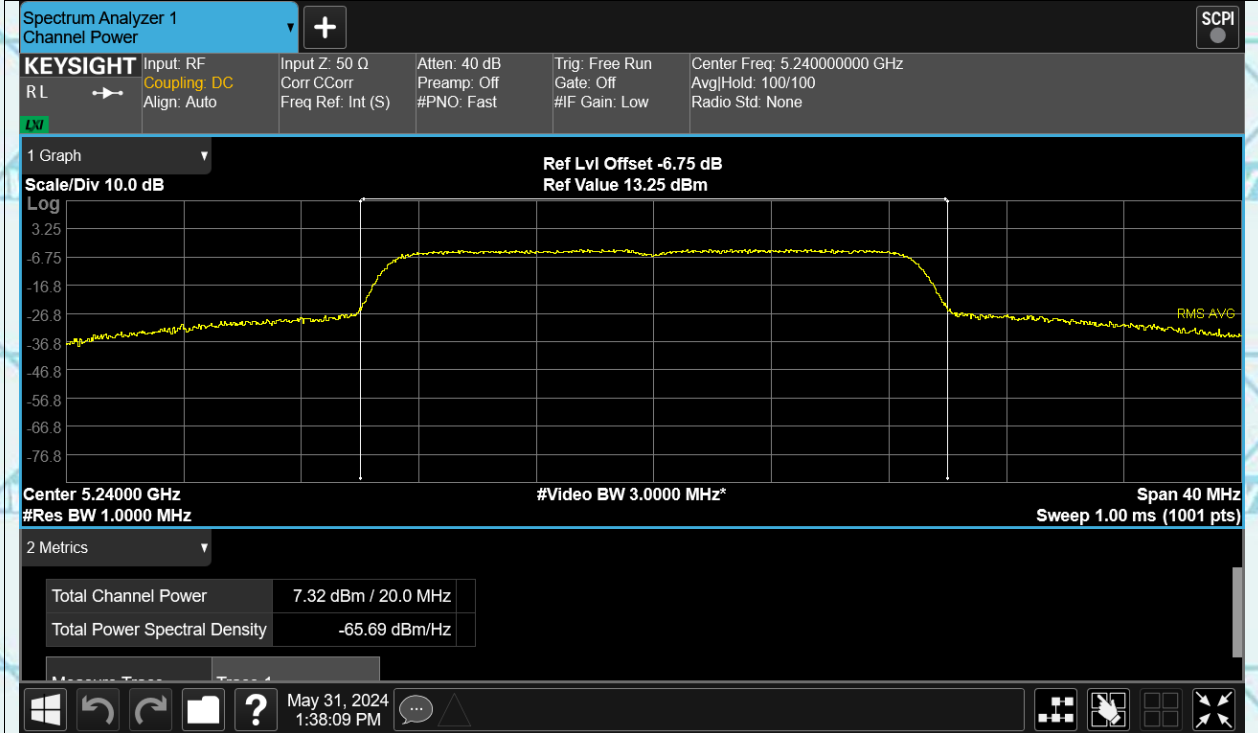


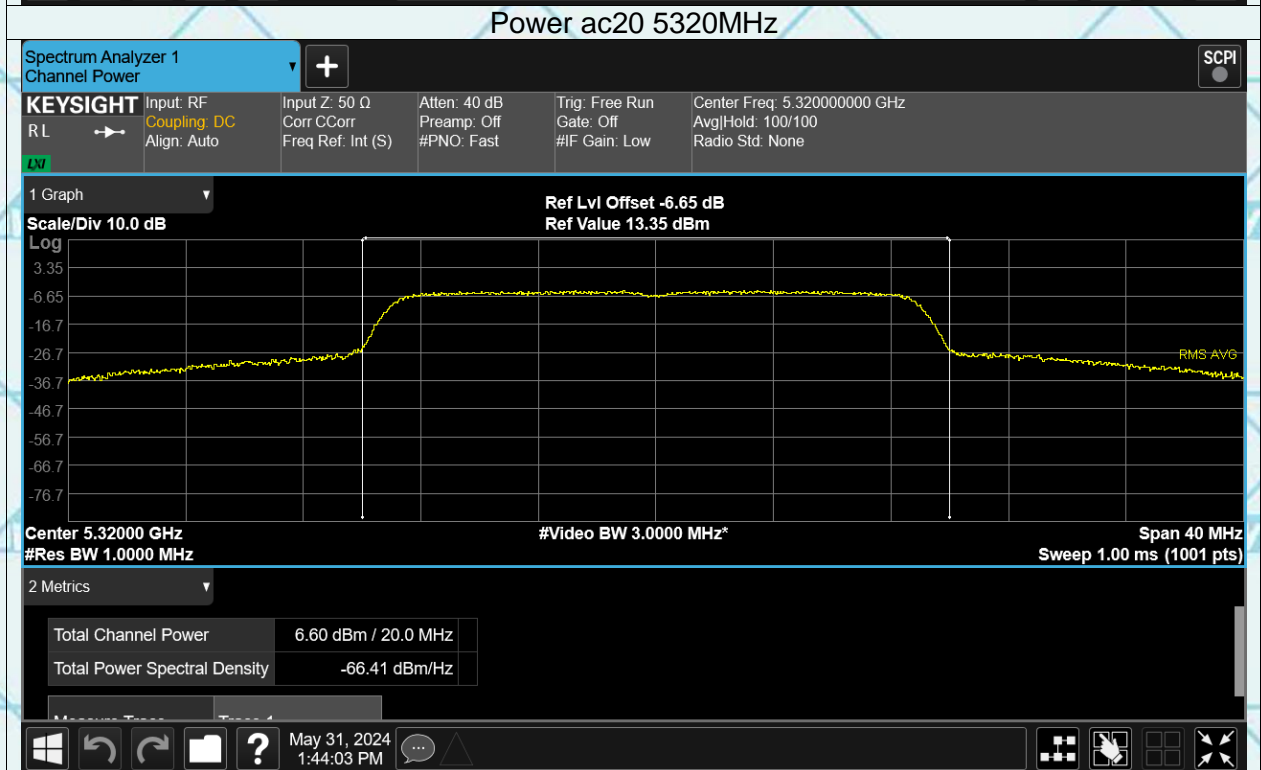
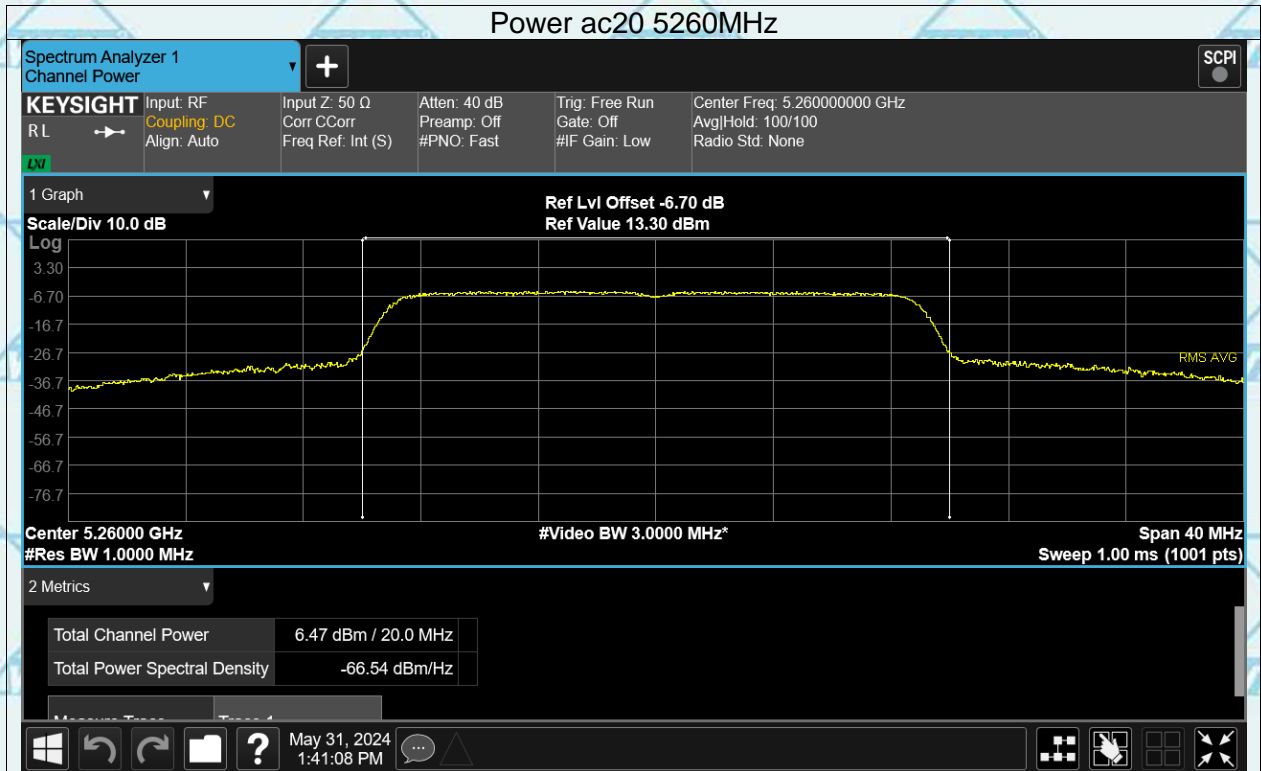


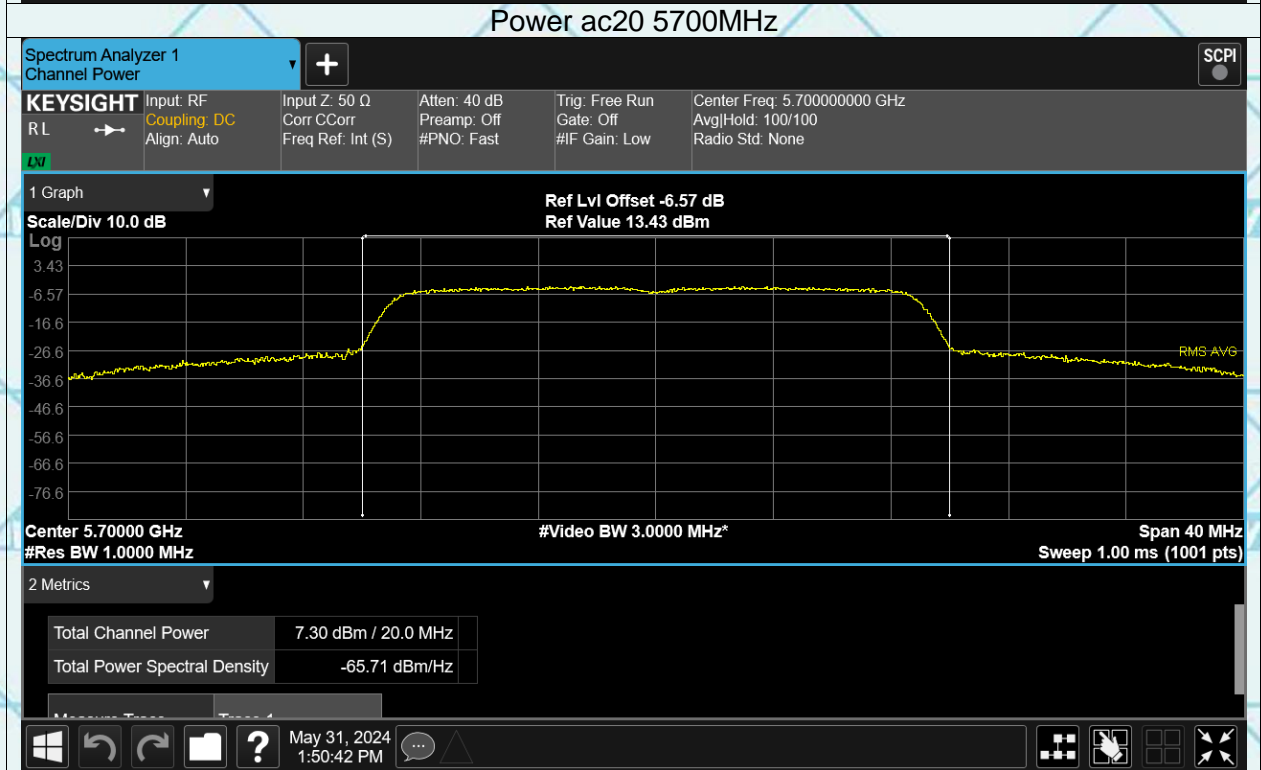
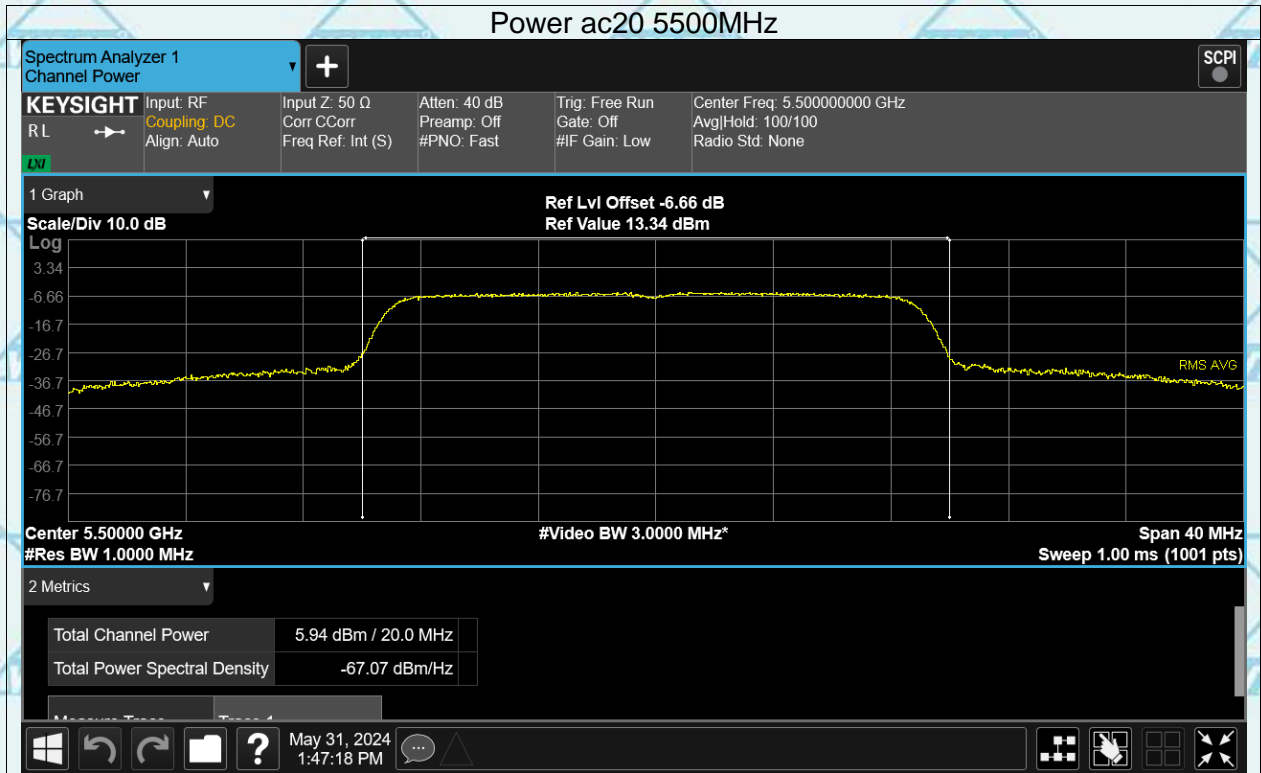
Power ac20 5180MHz



Power ac20 5240MHz

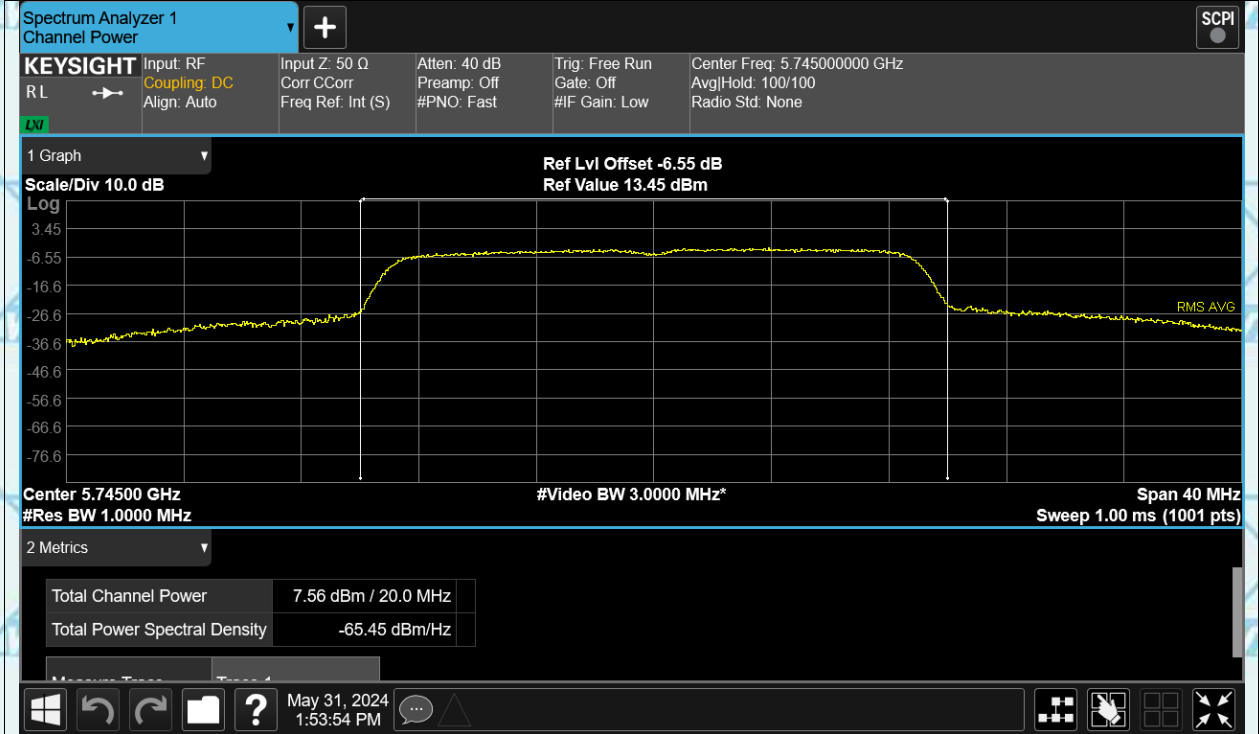




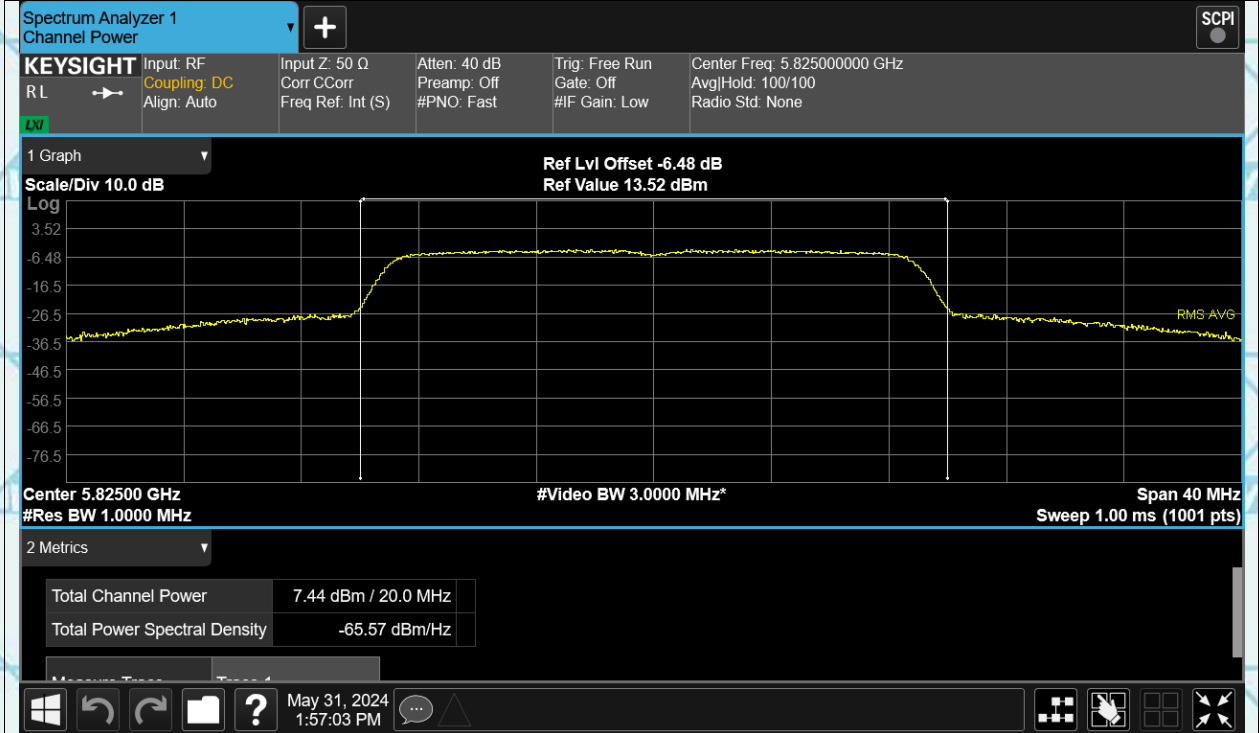


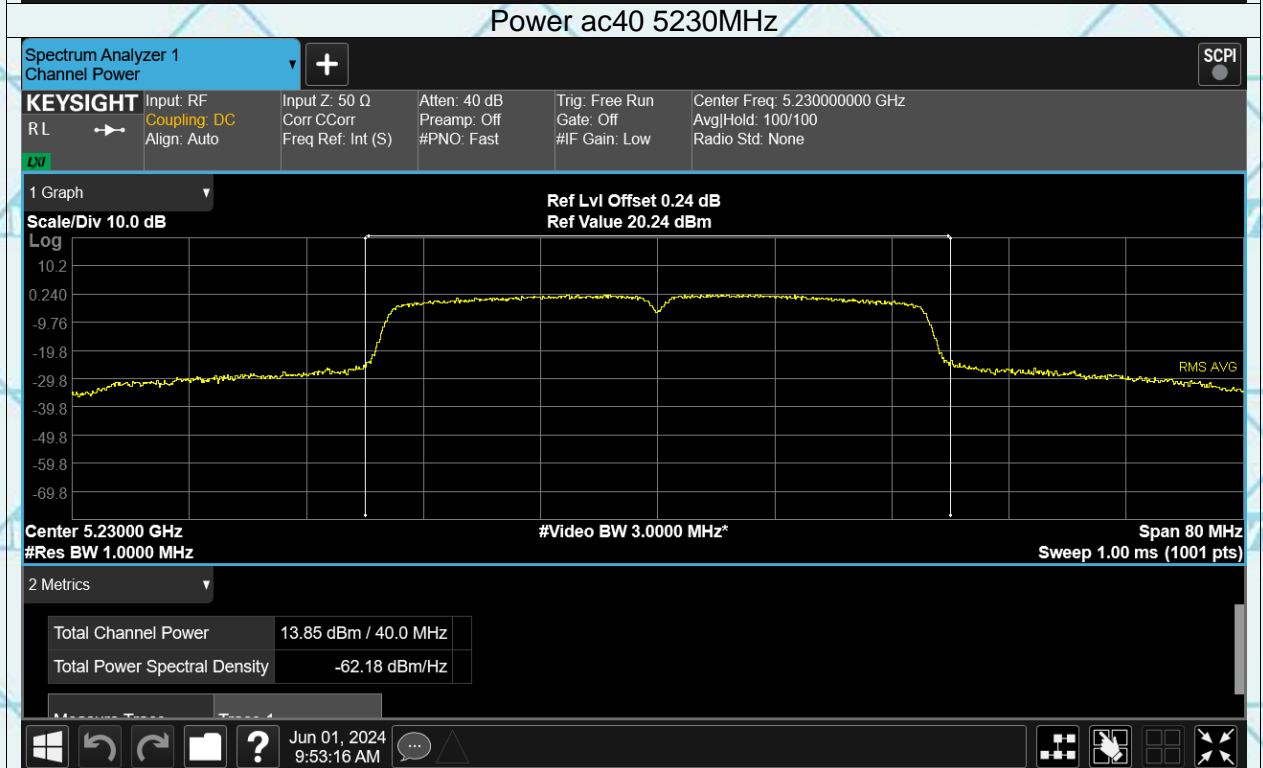
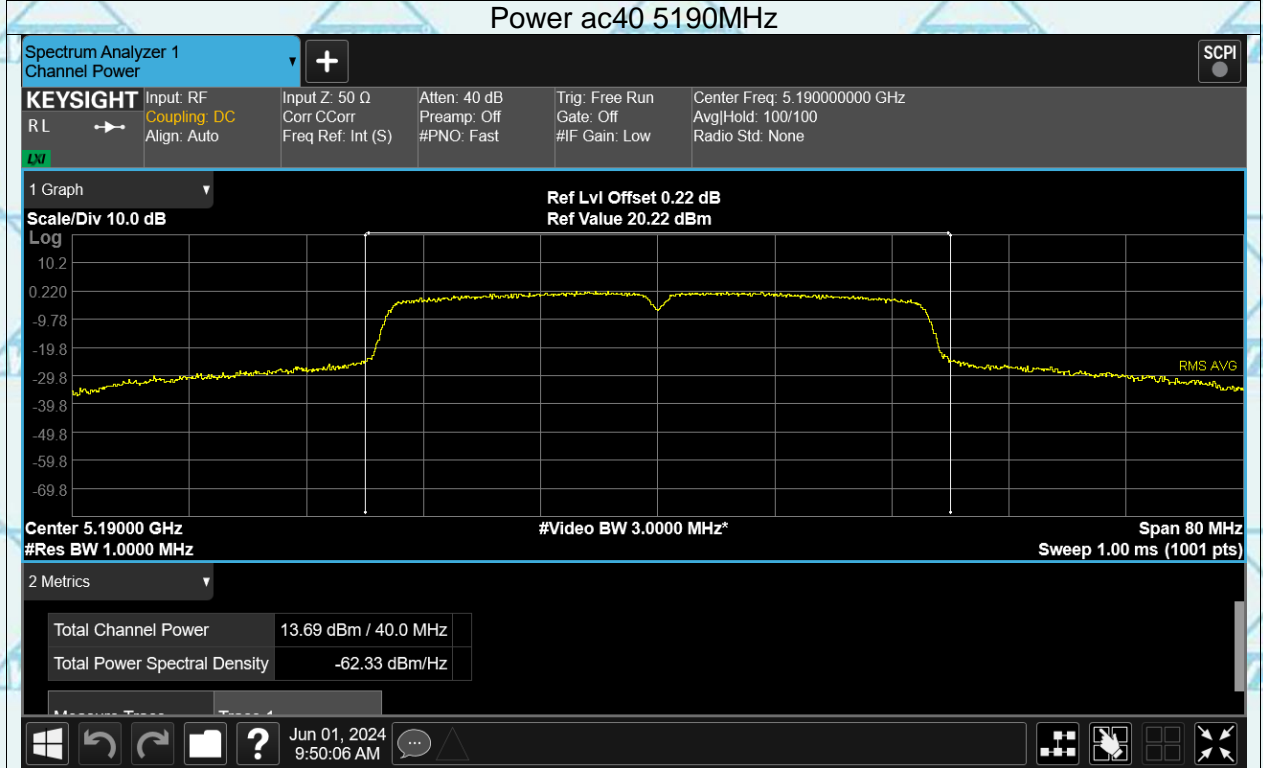


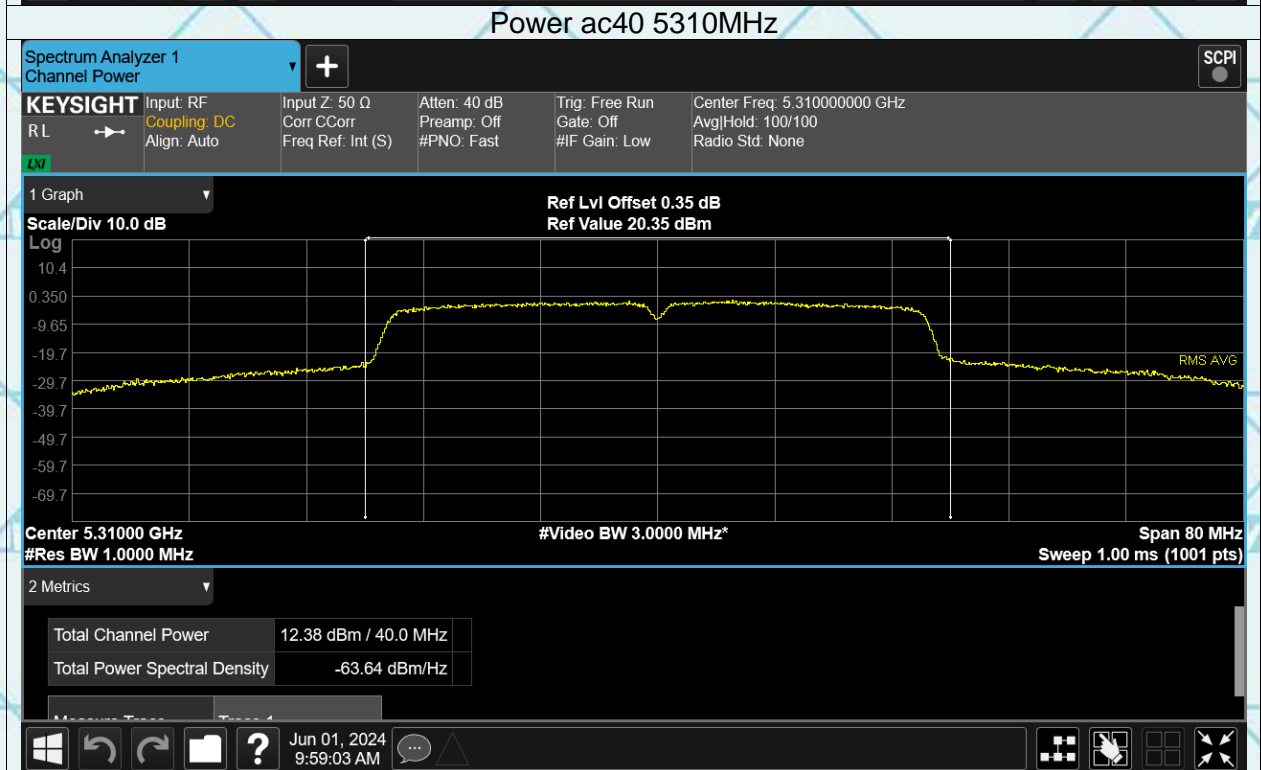
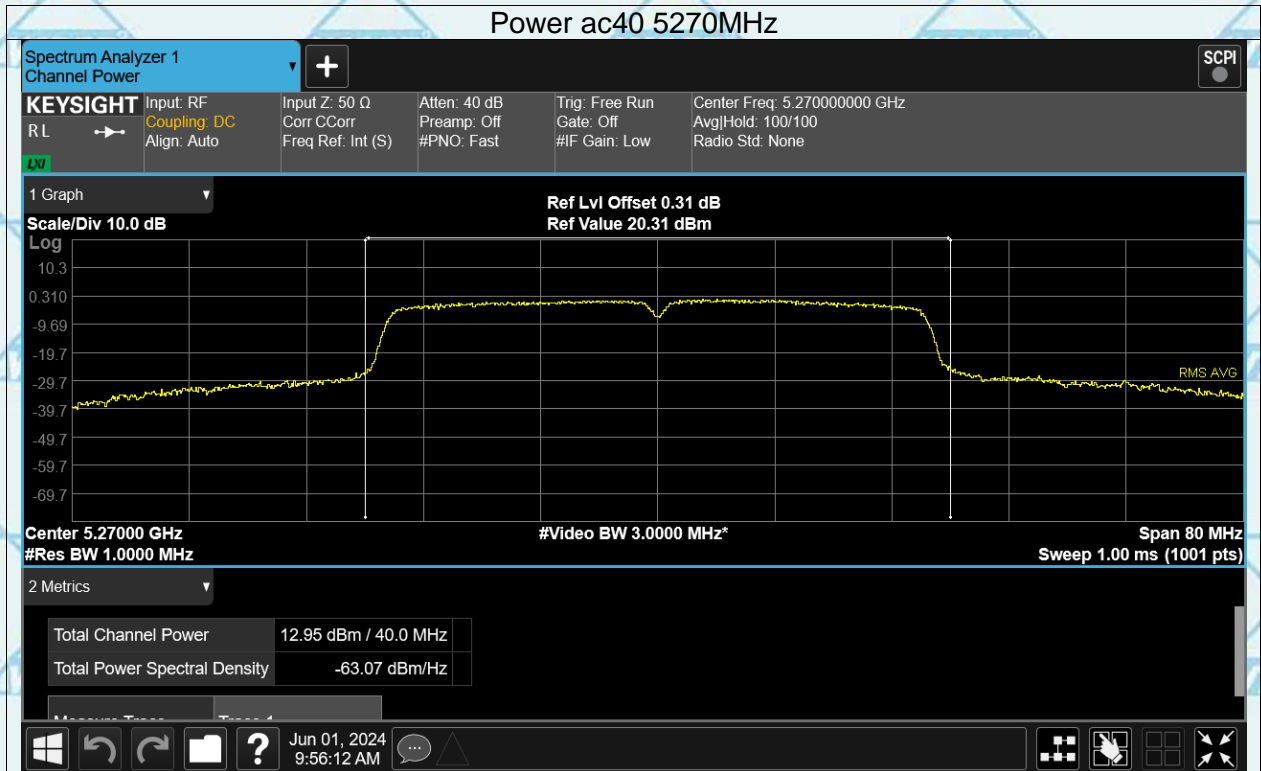
Power ac20 5745MHz

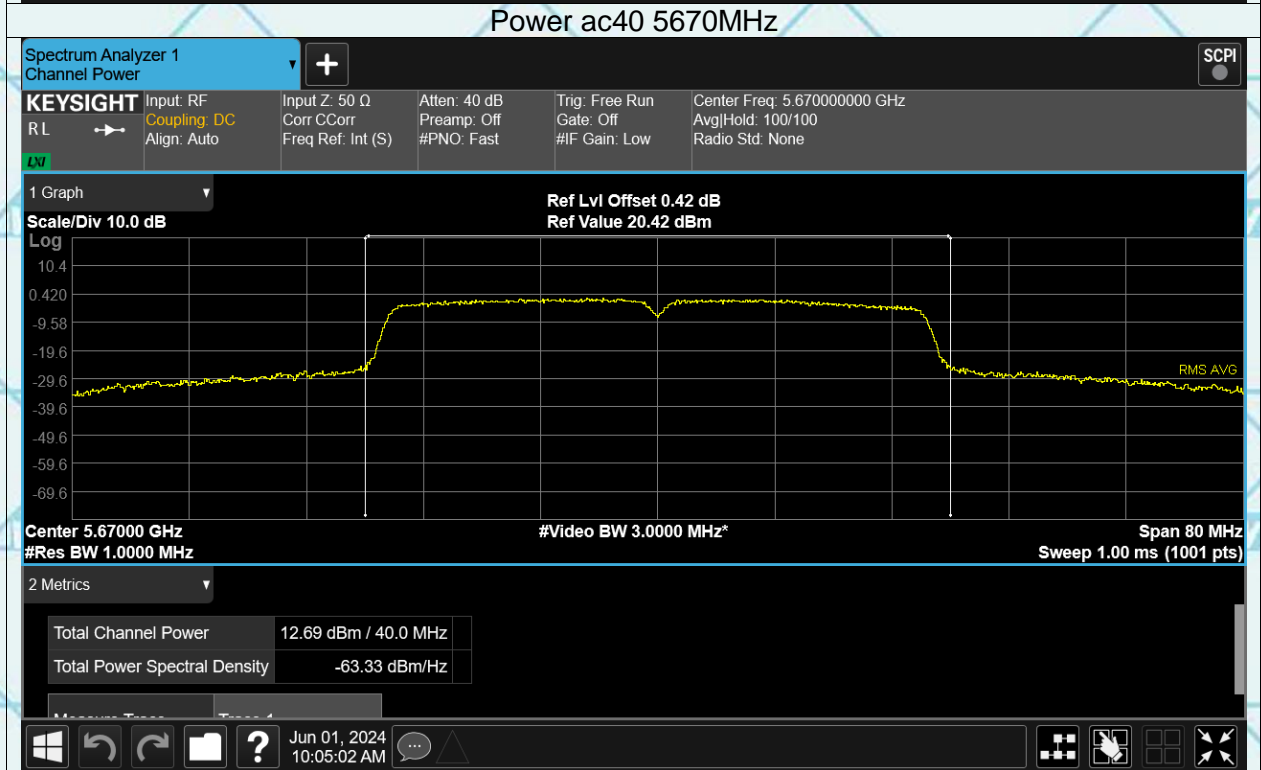
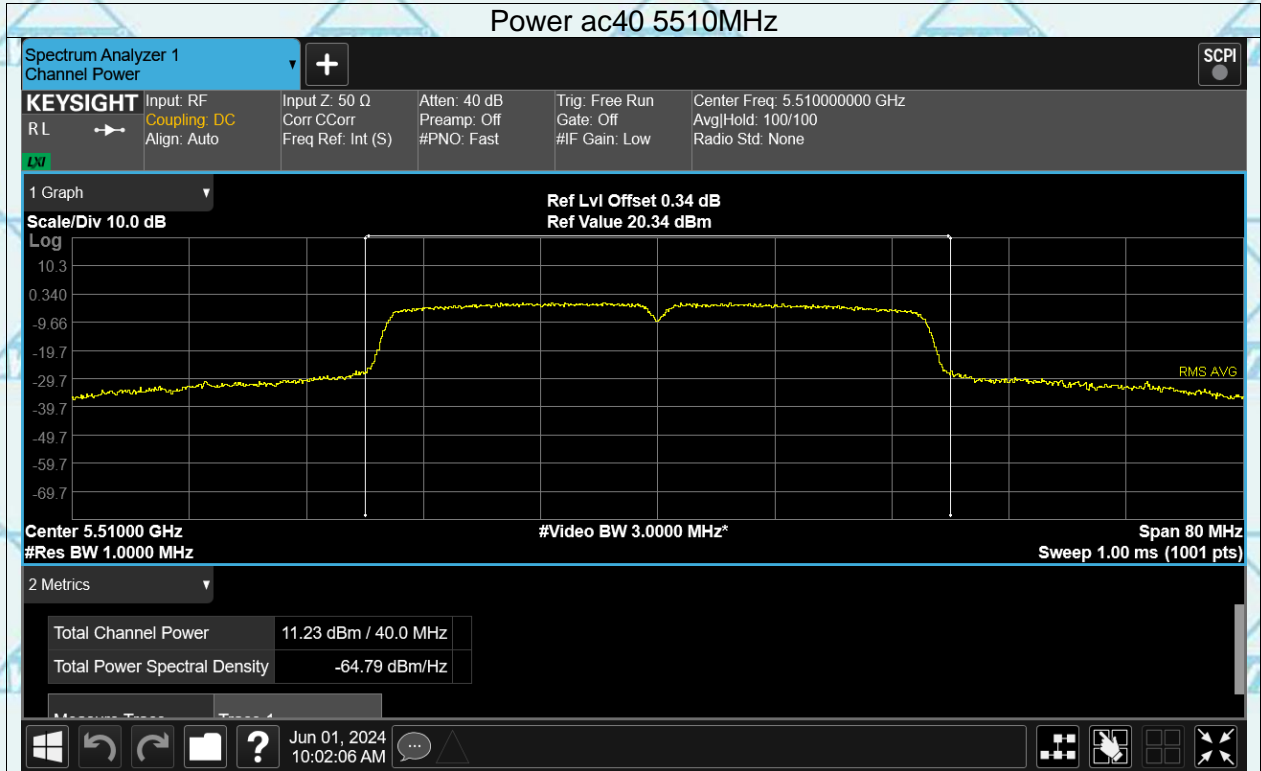


Power ac20 5825MHz



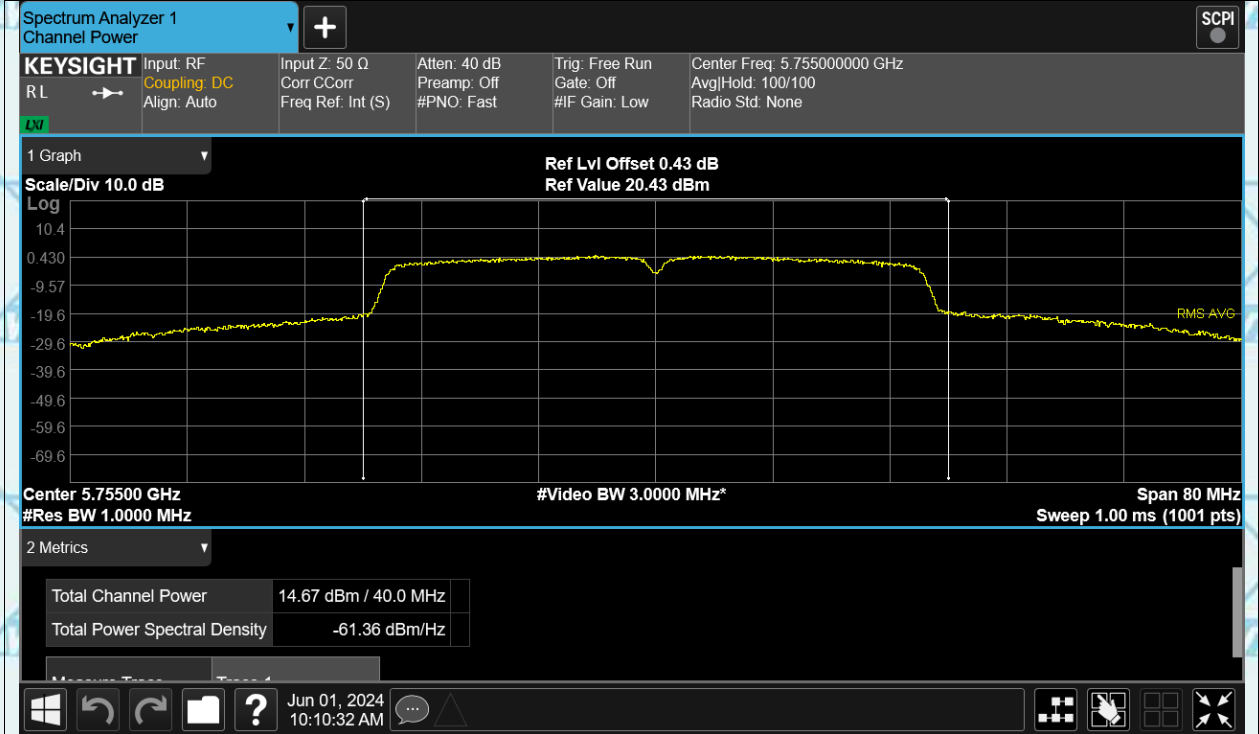




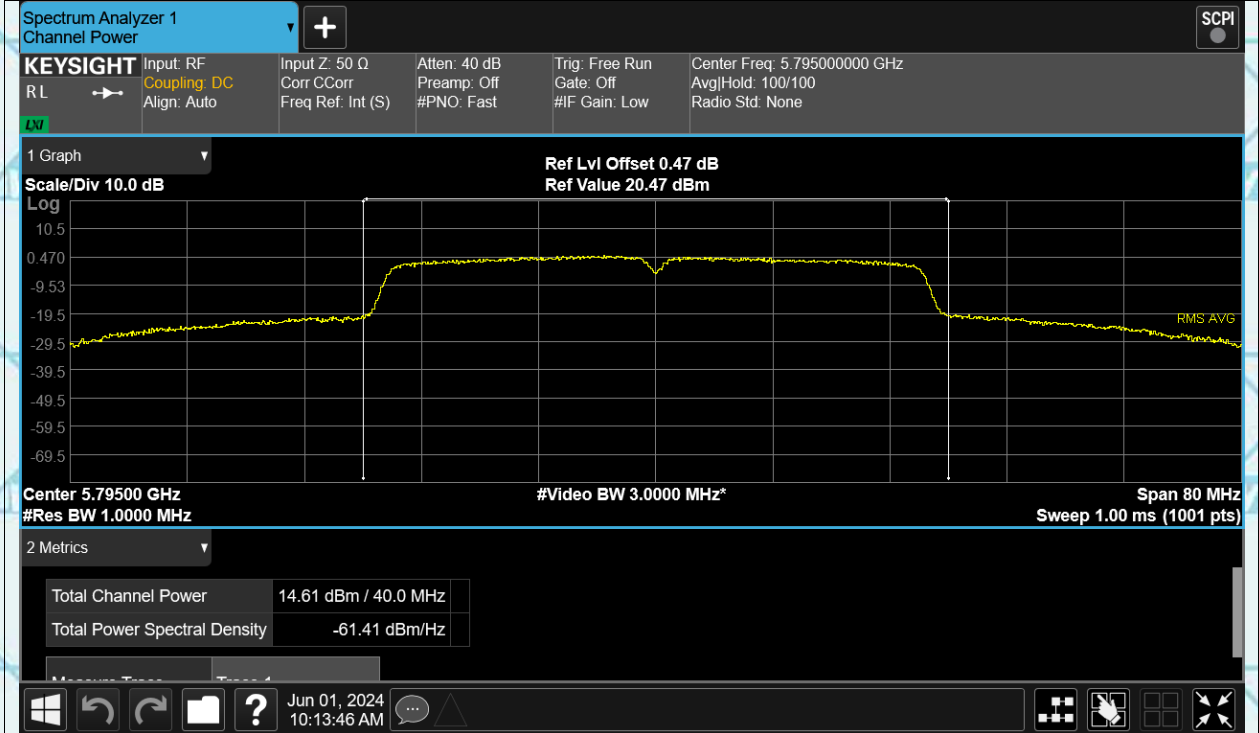




Power ac40 5755MHz

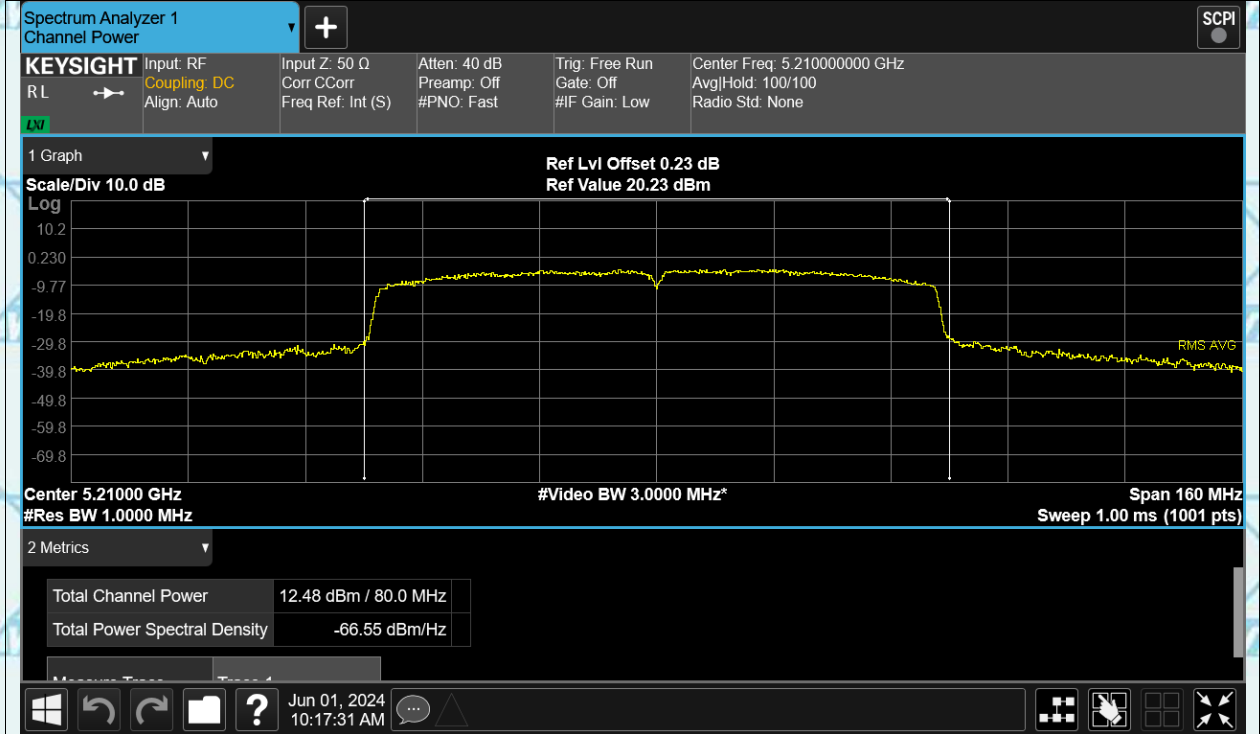


Power ac40 5795MHz

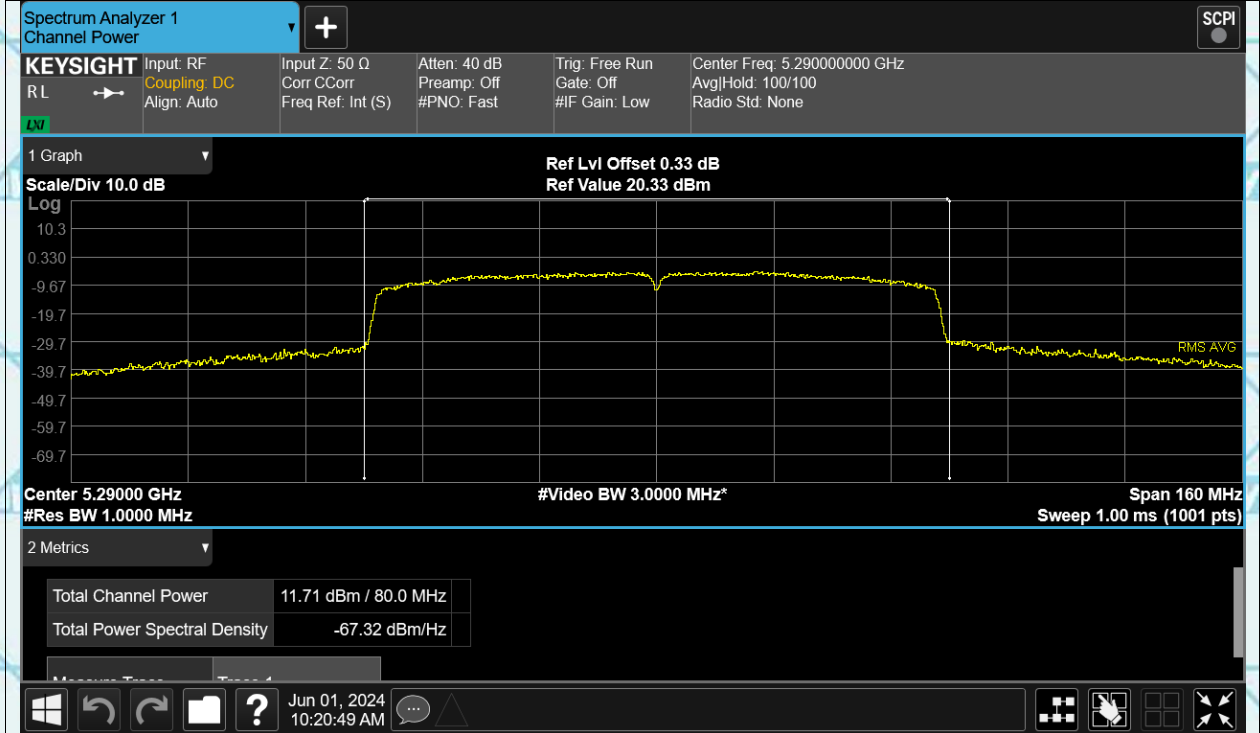


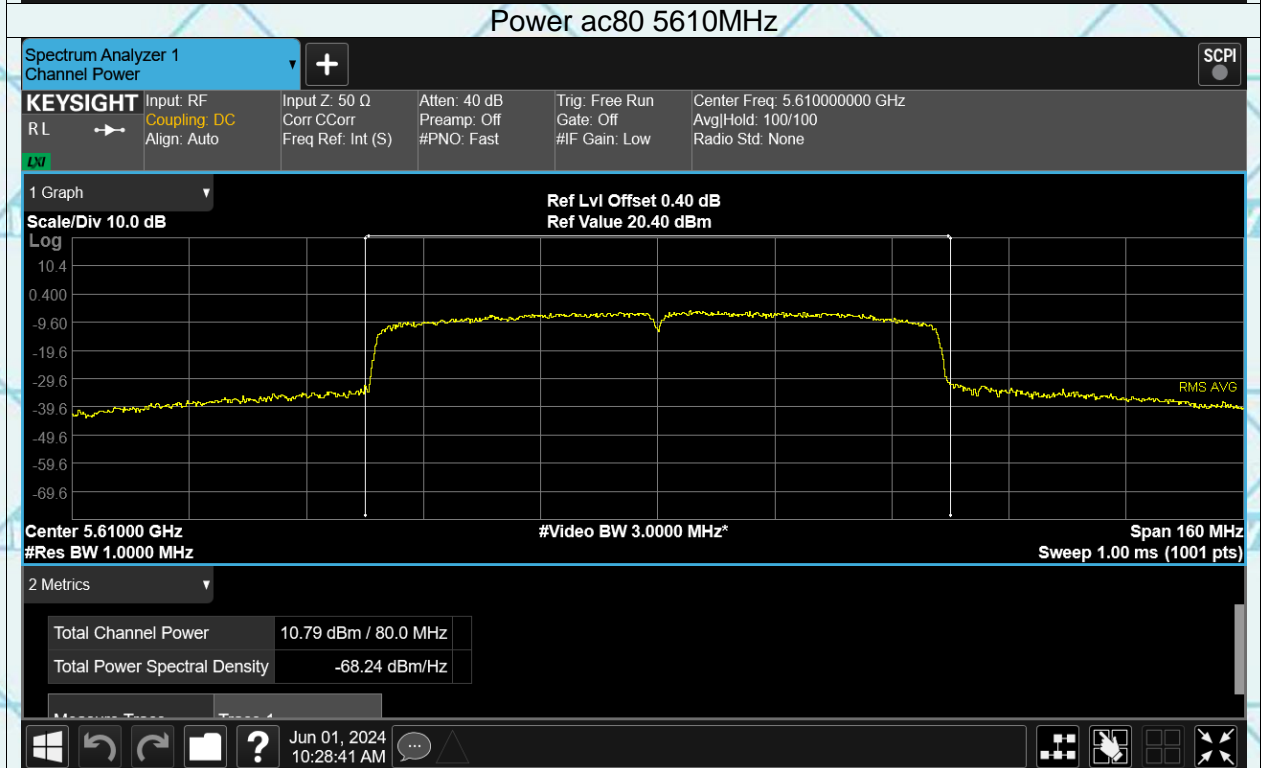
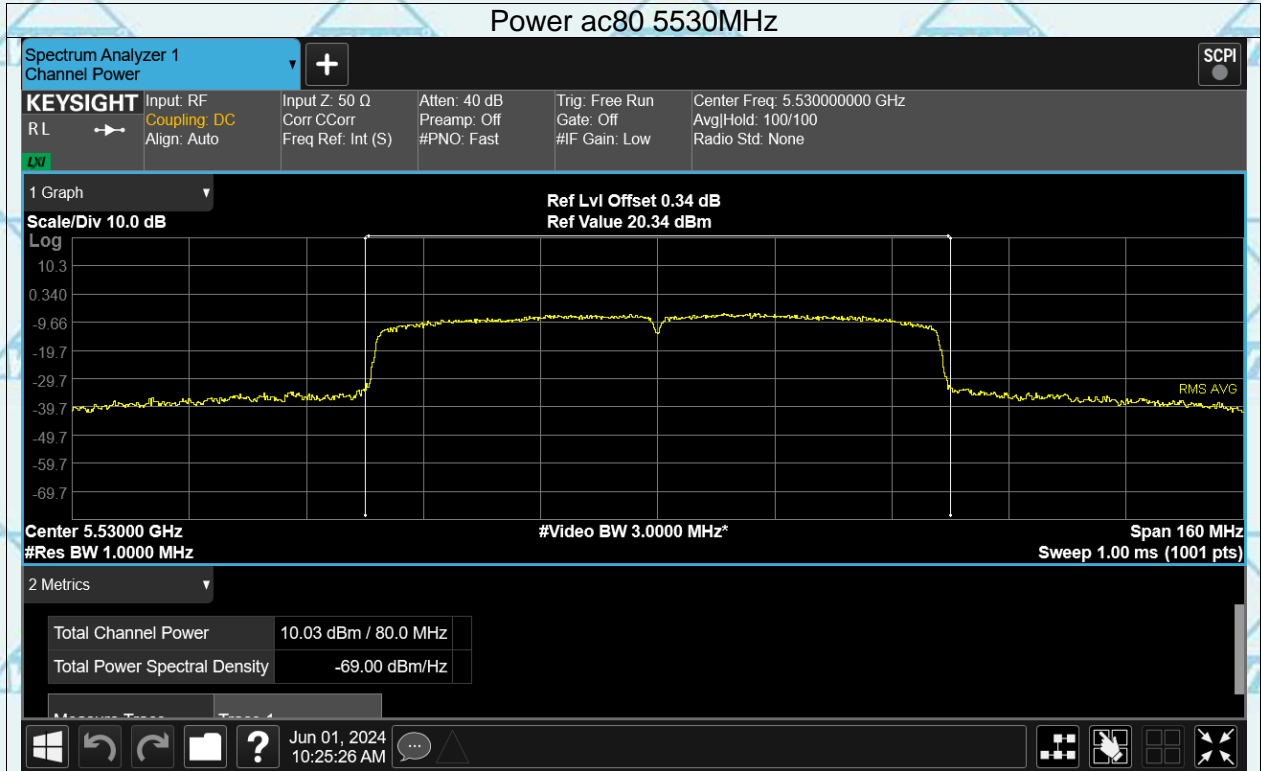


Power ac80 5210MHz



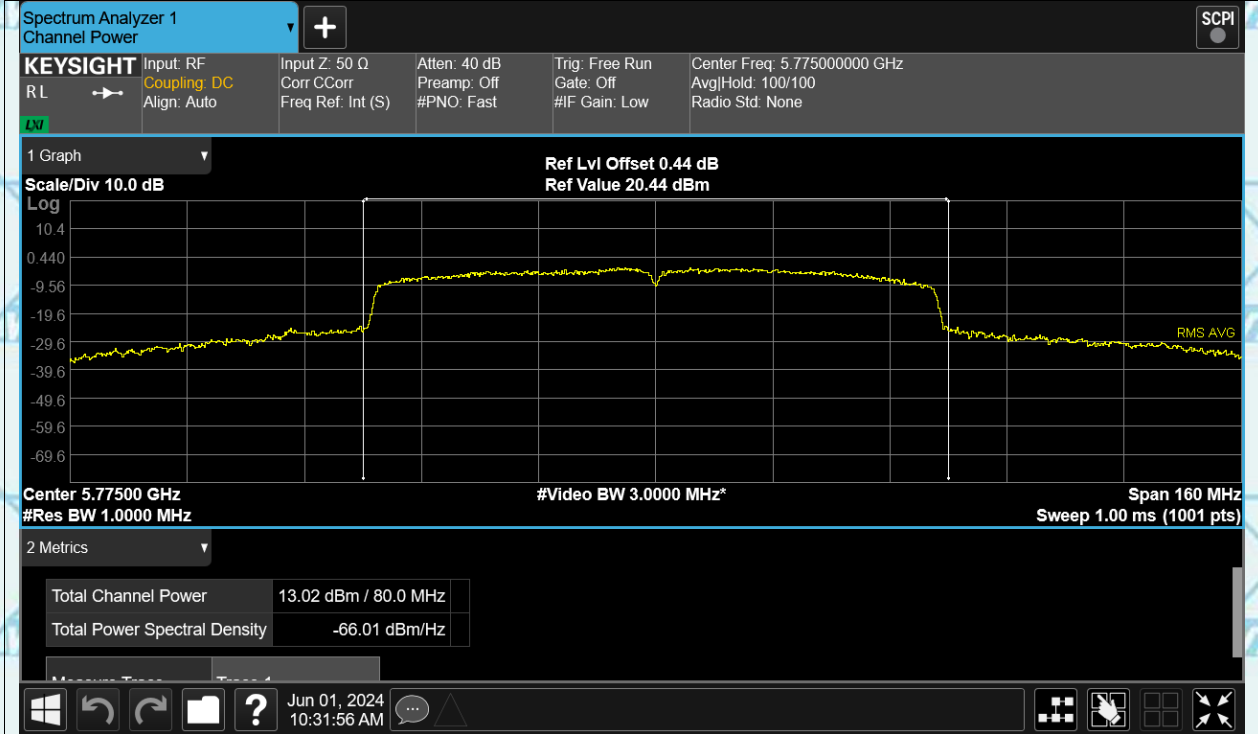
Power ac80 5290MHz



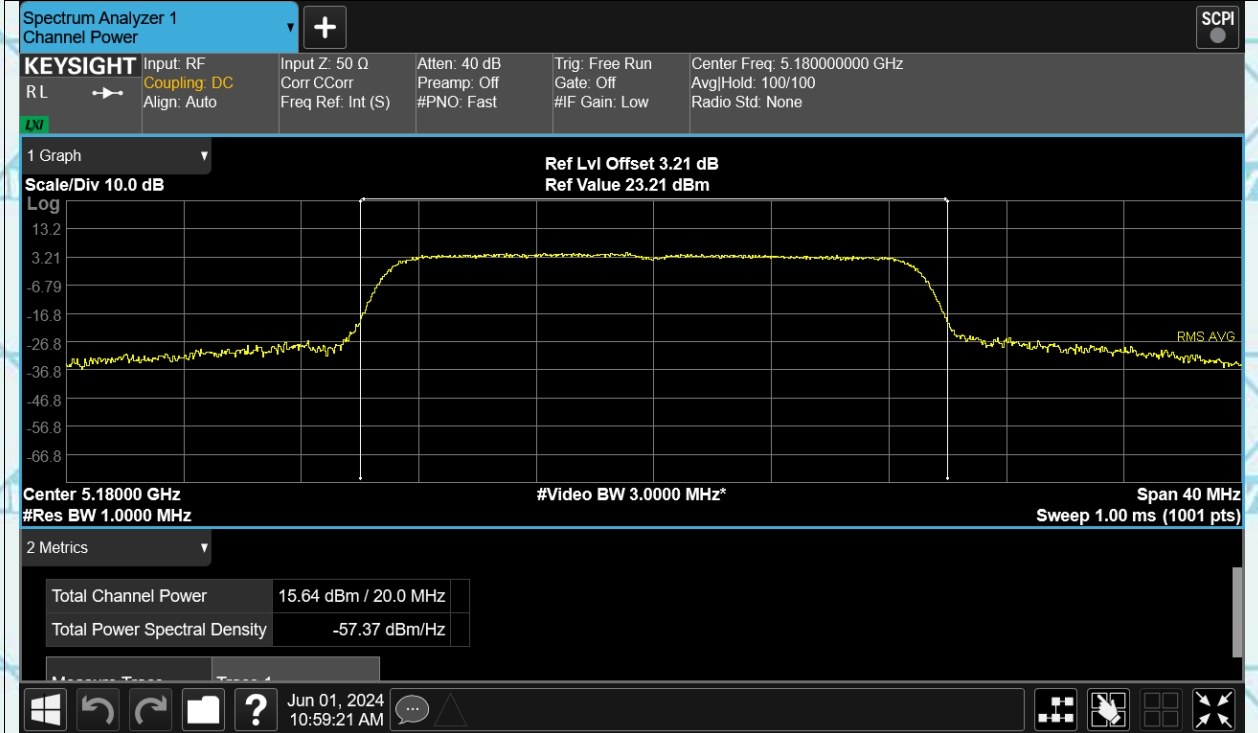


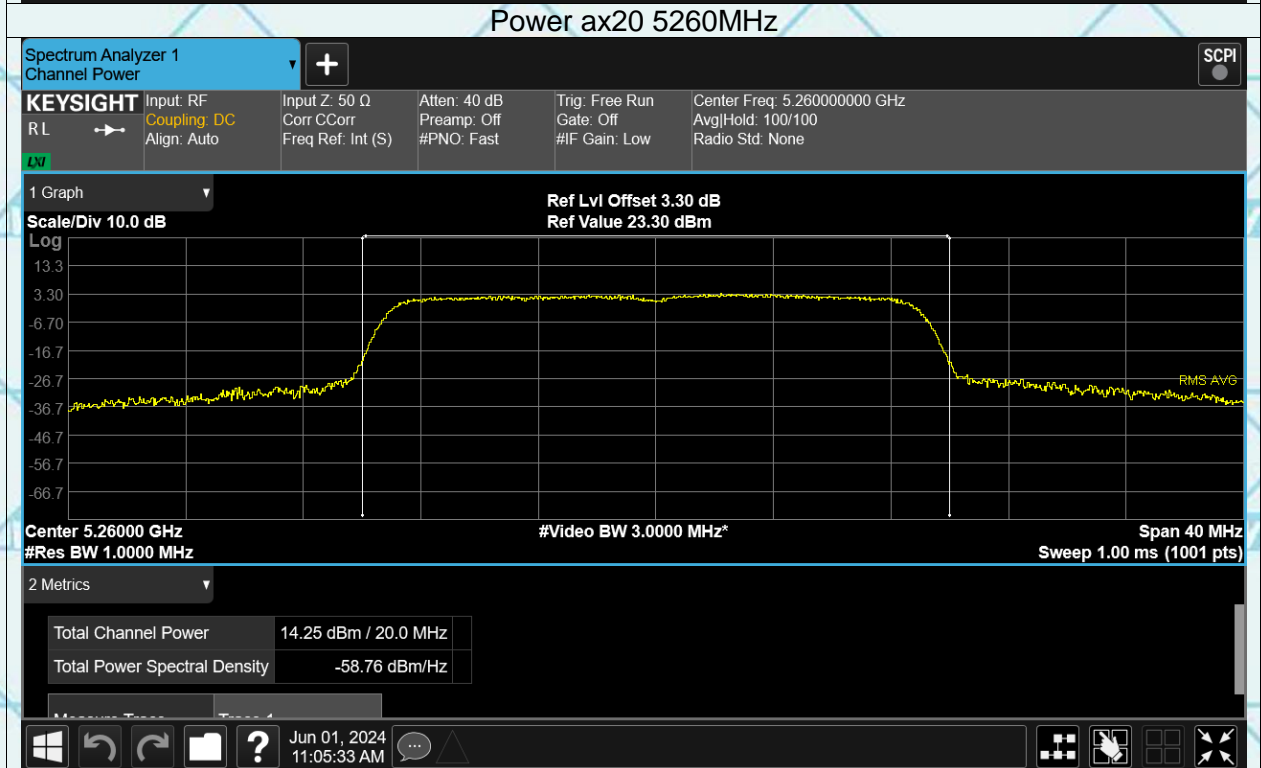
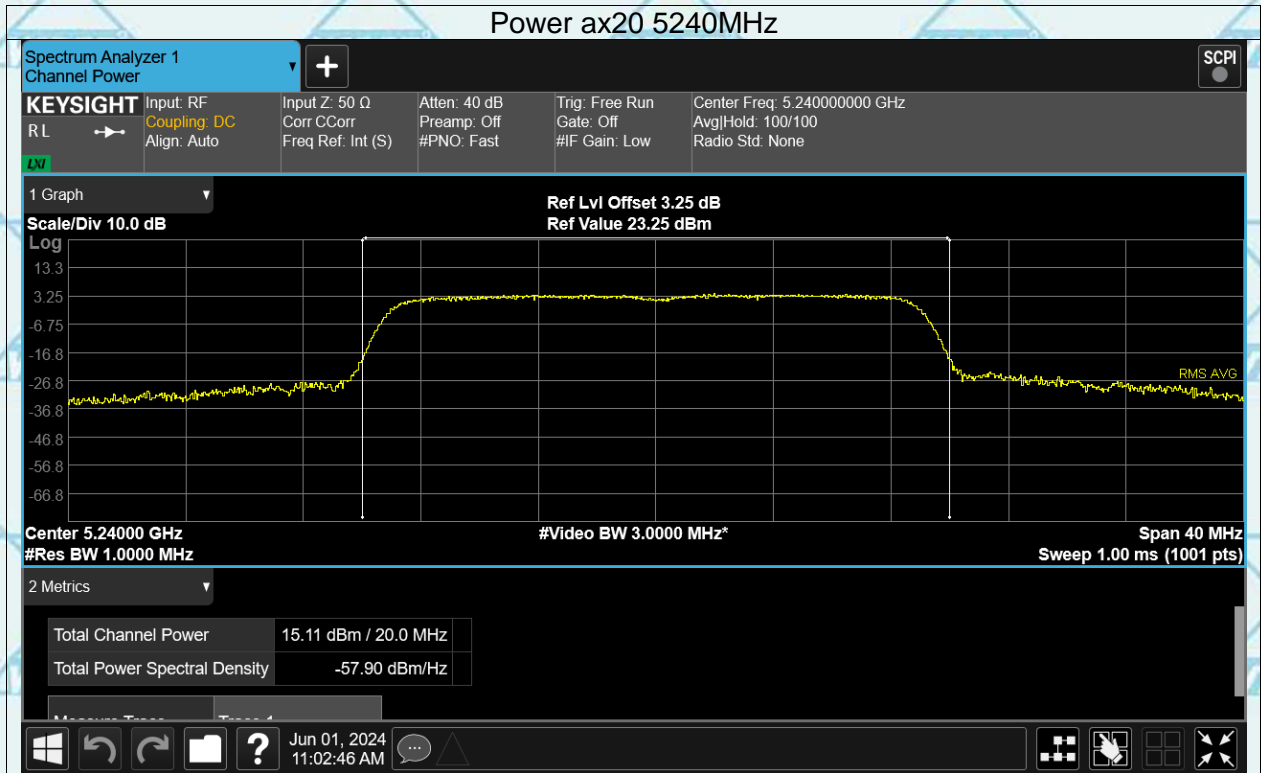


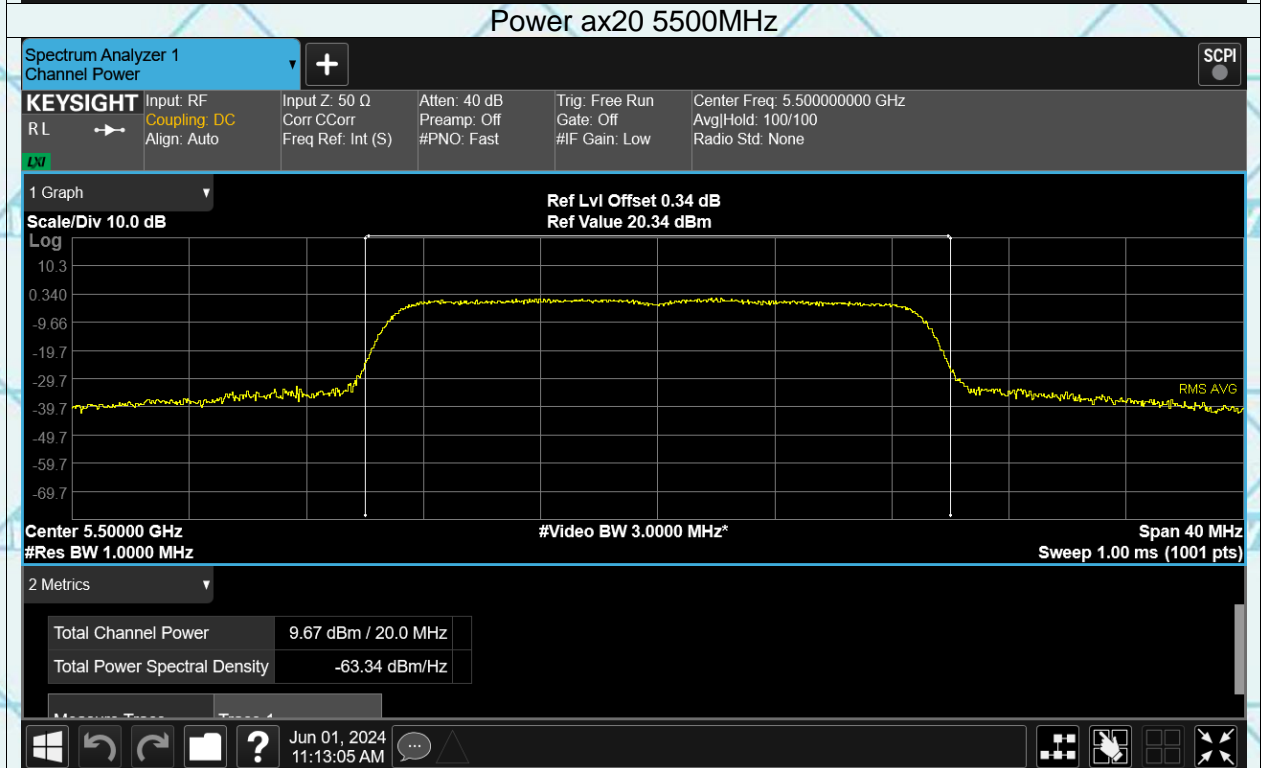
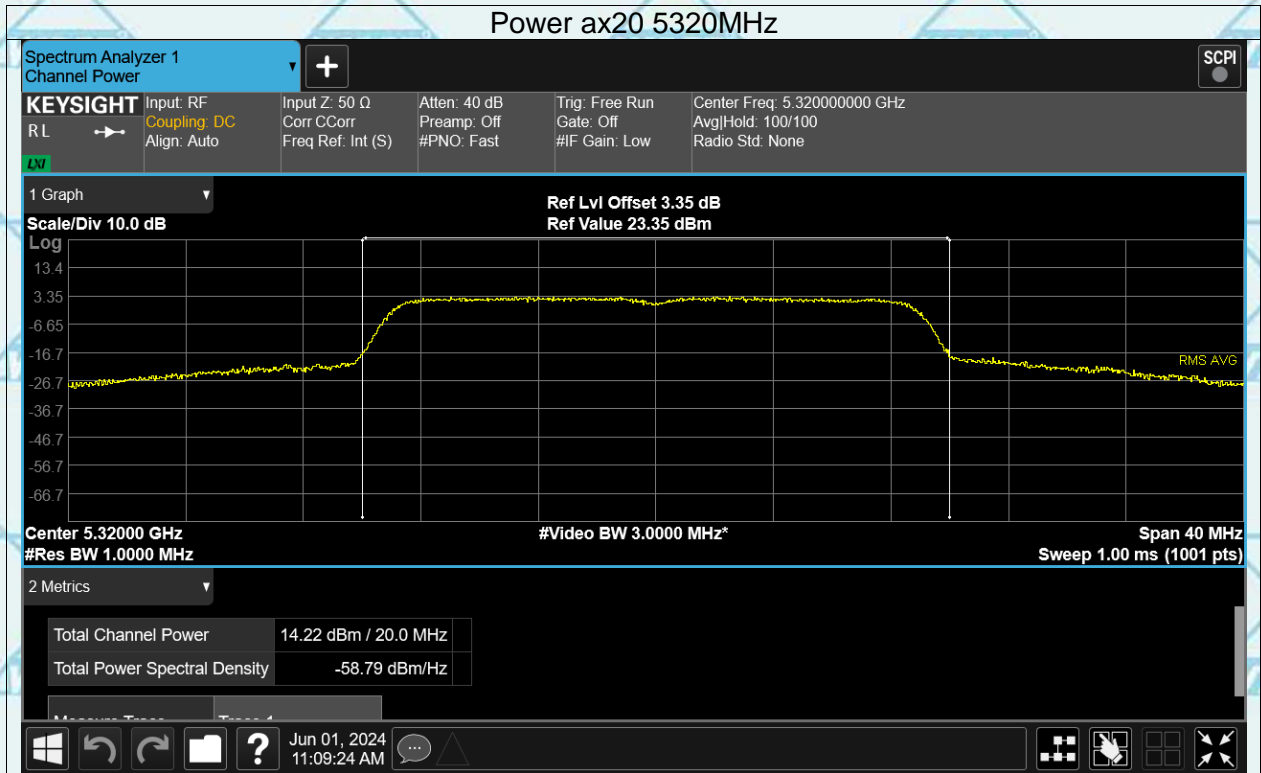
Power ac80 5775MHz

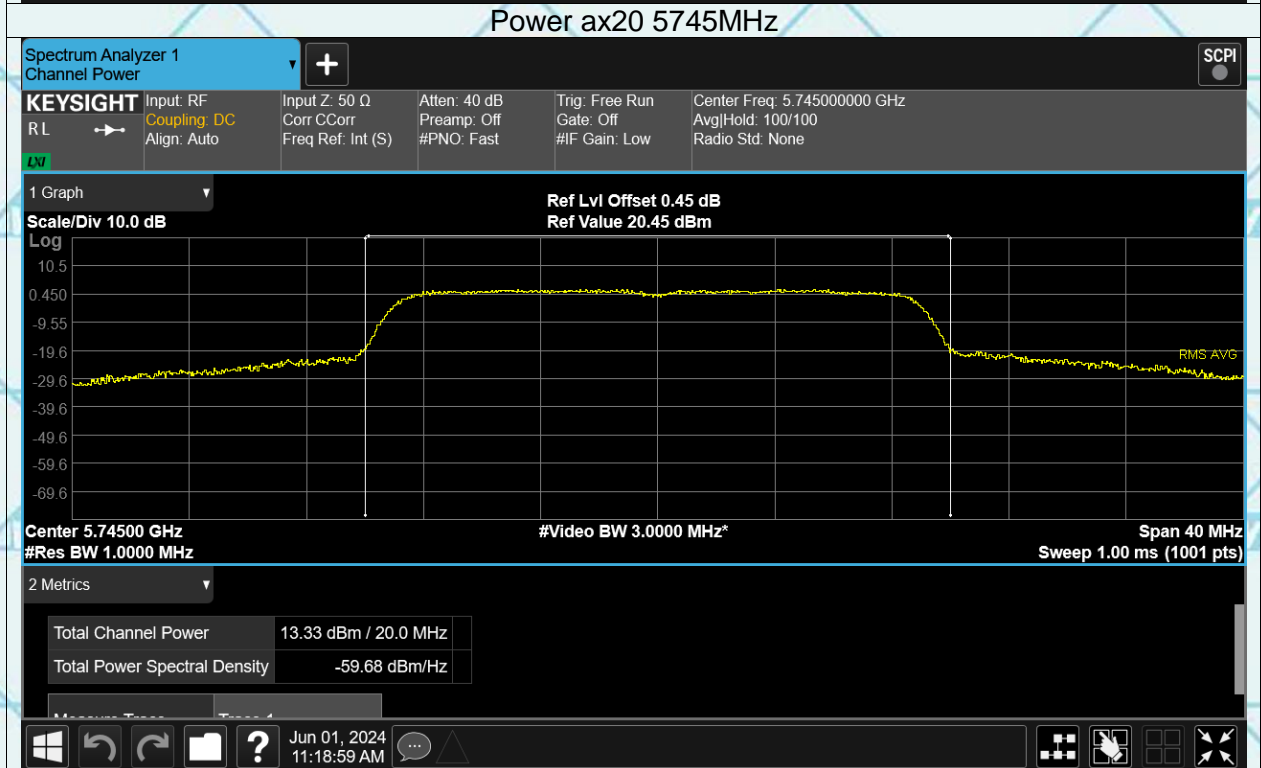
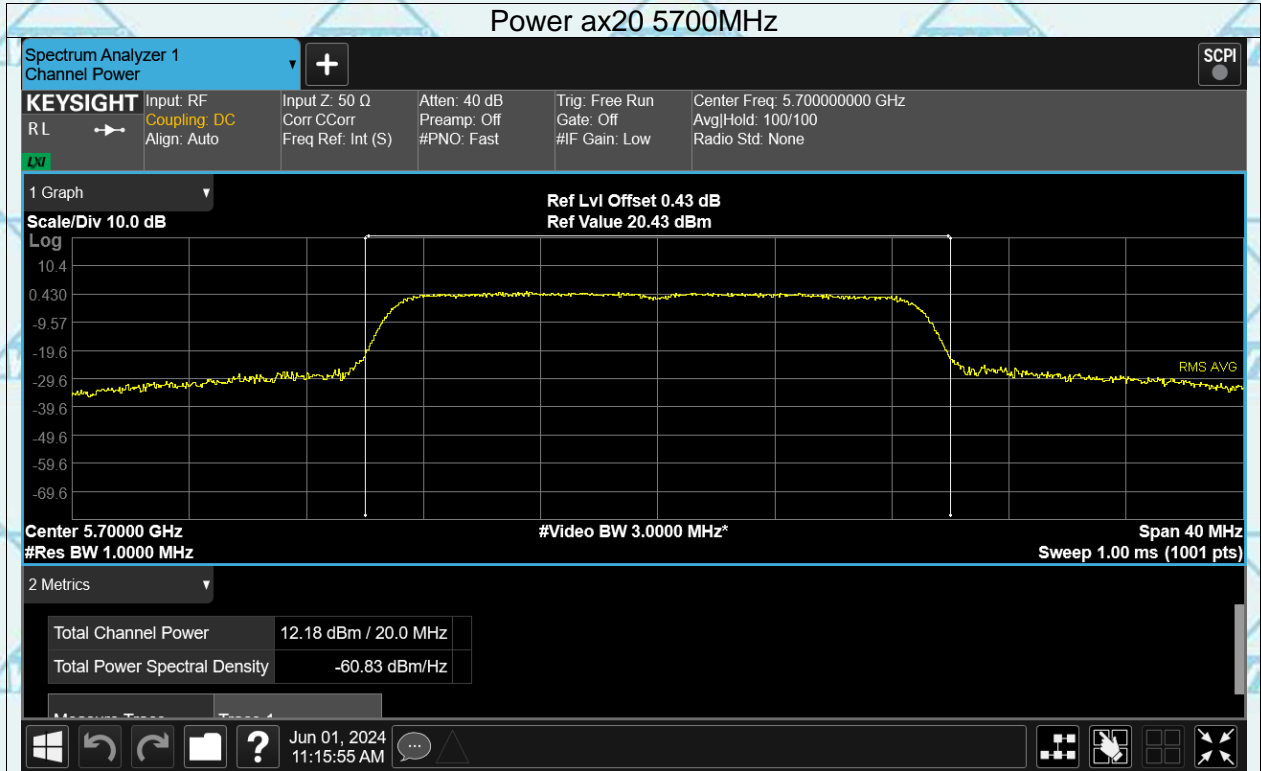


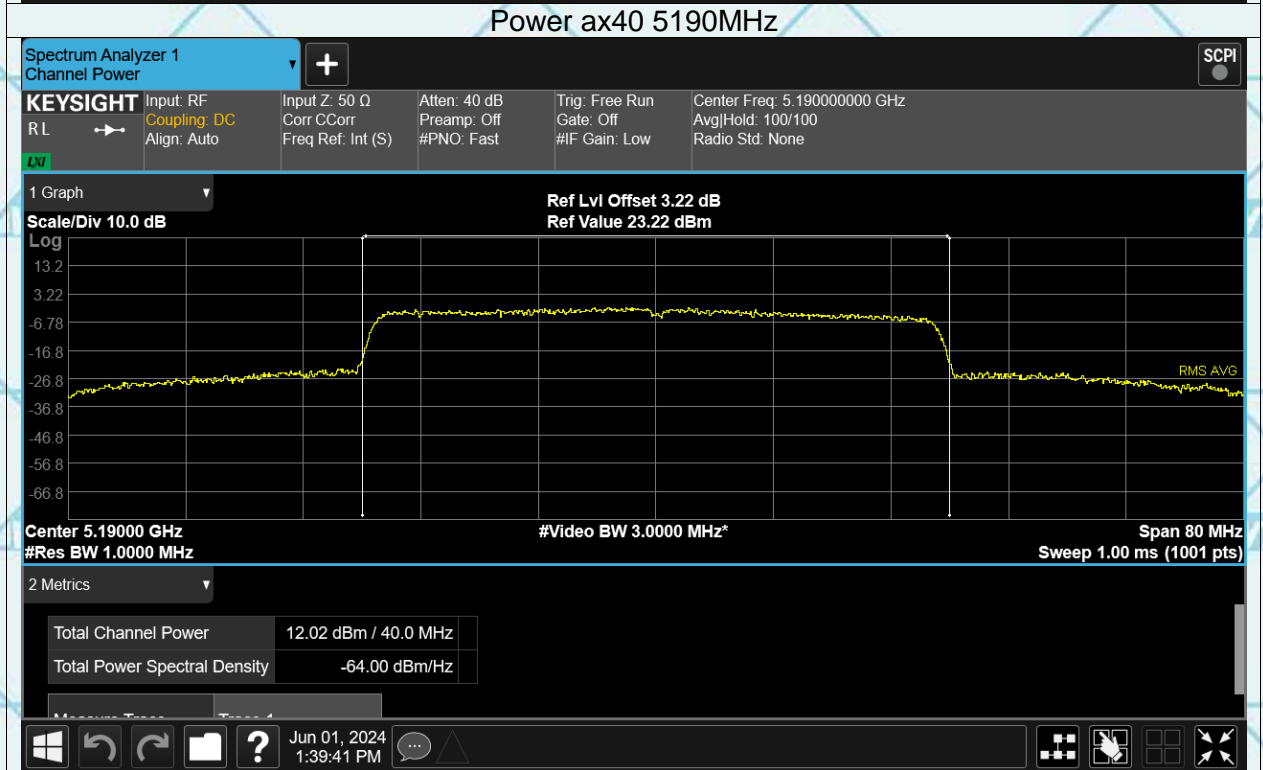
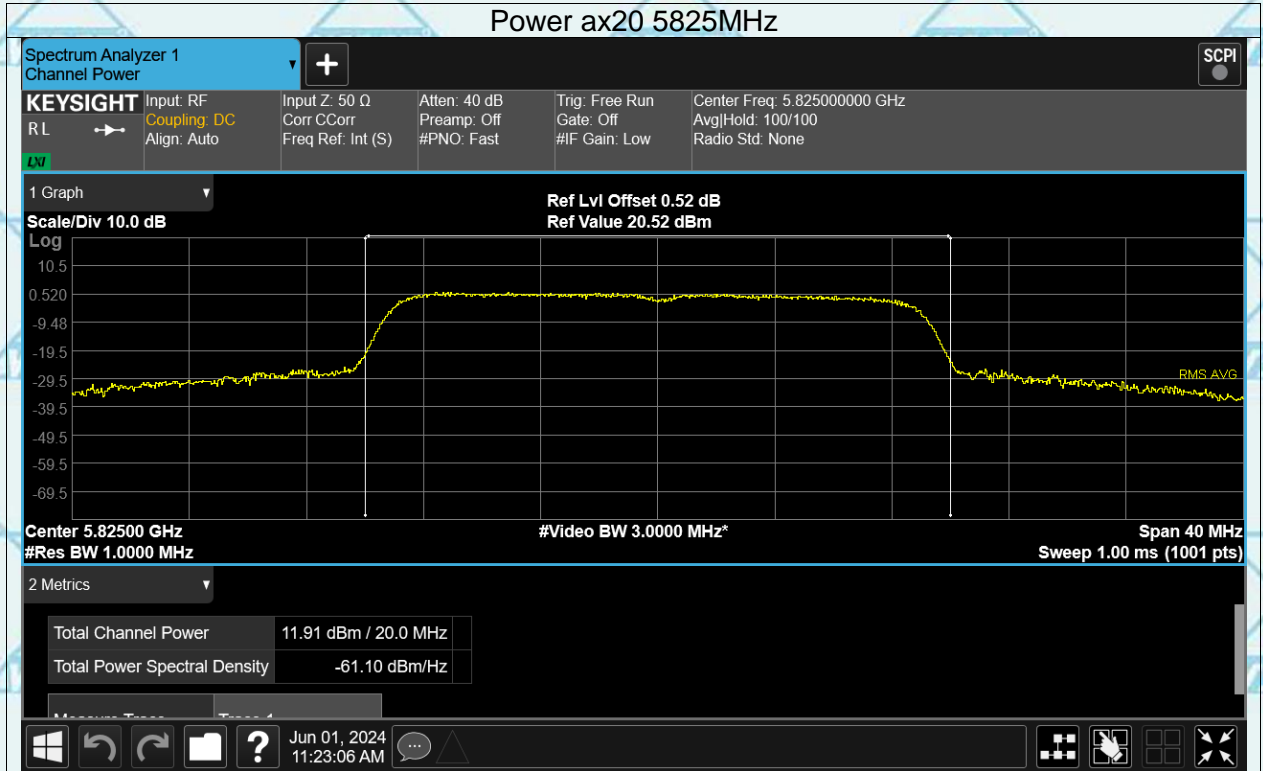
Power ax20 5180MHz

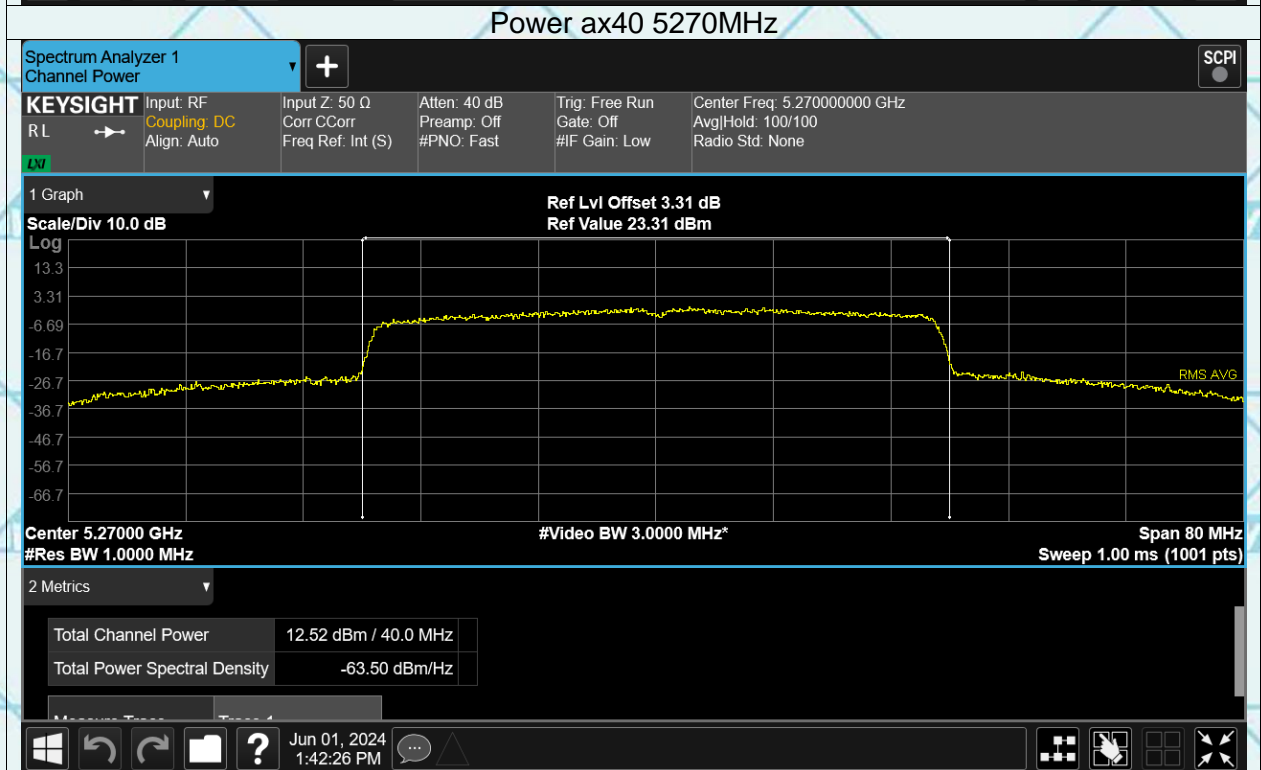
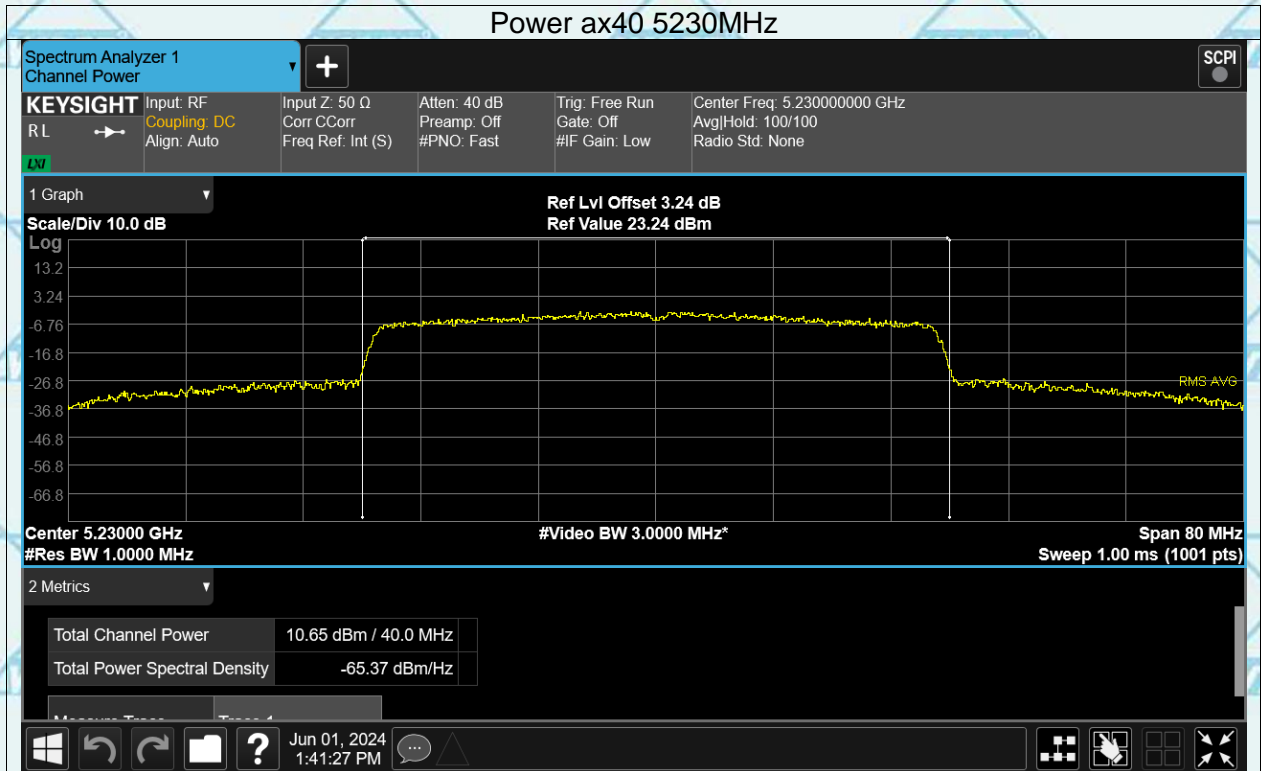






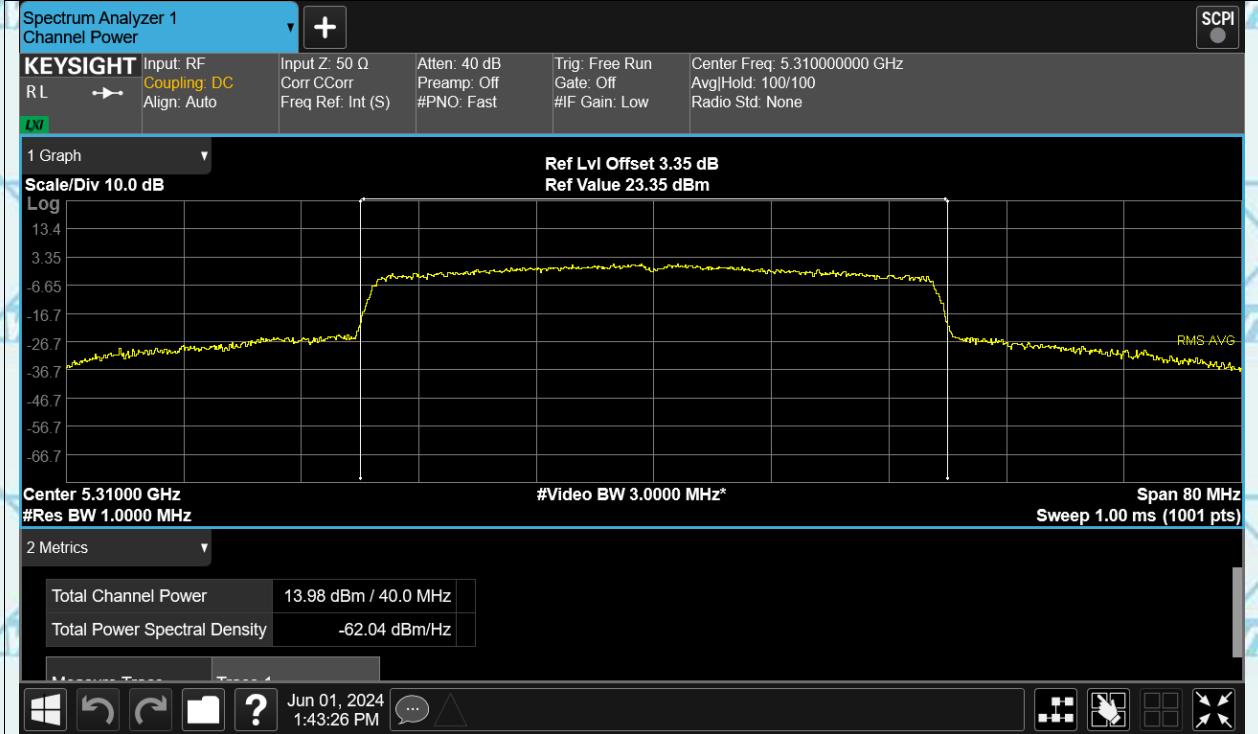








Power ax40 5310MHz



Power ax40 5510MHz

