

Report No.: TMWK2309003309KR

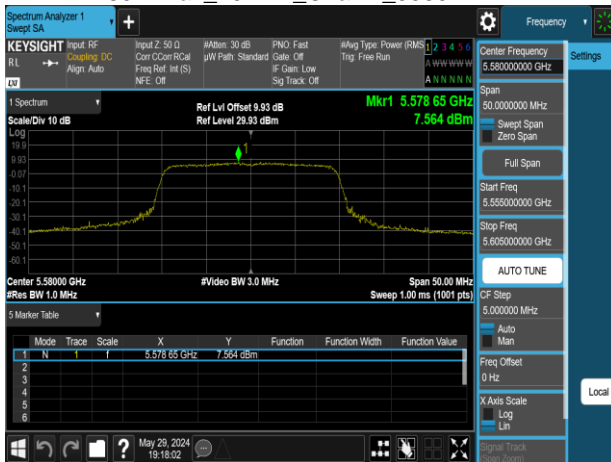
802.11ax\_20MHz\_Chain1\_5500MHz



802.11ax\_20MHz\_Chain1\_5745MHz



802.11ax\_20MHz\_Chain1\_5580MHz



802.11ax\_20MHz\_Chain1\_5785MHz



802.11ax\_20MHz\_Chain1\_5700MHz

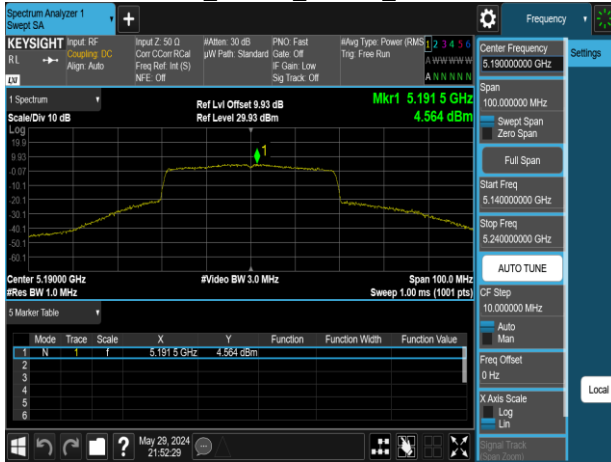


802.11ax\_20MHz\_Chain1\_5825MHz

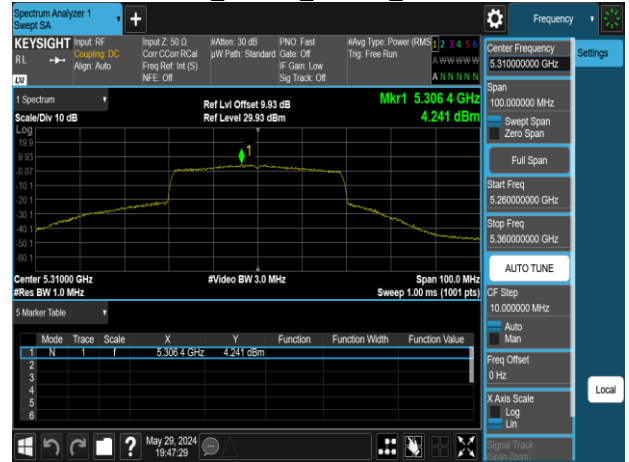


Report No.: TMWK2309003309KR

802.11ax\_40MHz\_Chain0\_5190MHz



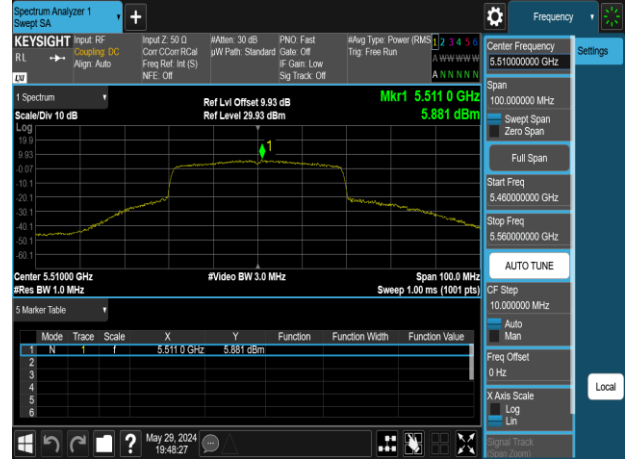
802.11ax\_40MHz\_Chain0\_5310MHz



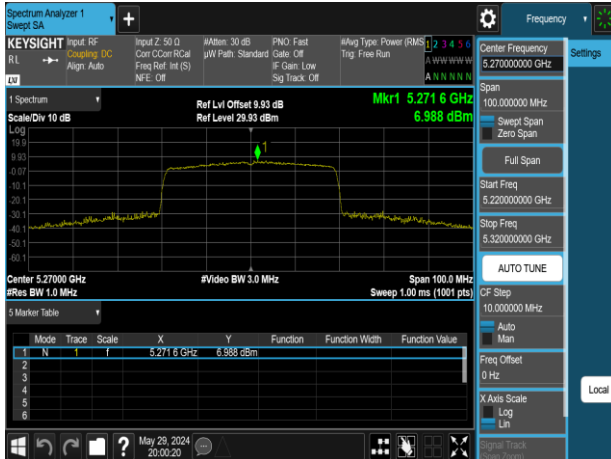
802.11ax\_40MHz\_Chain0\_5230MHz



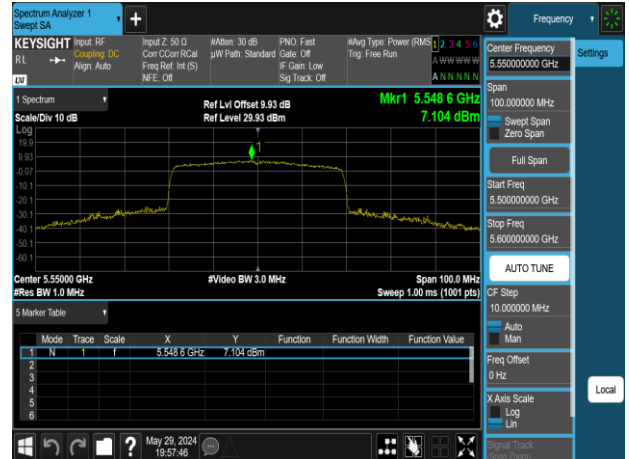
802.11ax\_40MHz\_Chain0\_5510MHz



802.11ax\_40MHz\_Chain0\_5270MHz



802.11ax\_40MHz\_Chain0\_5550MHz



Report No.: TMWK2309003309KR

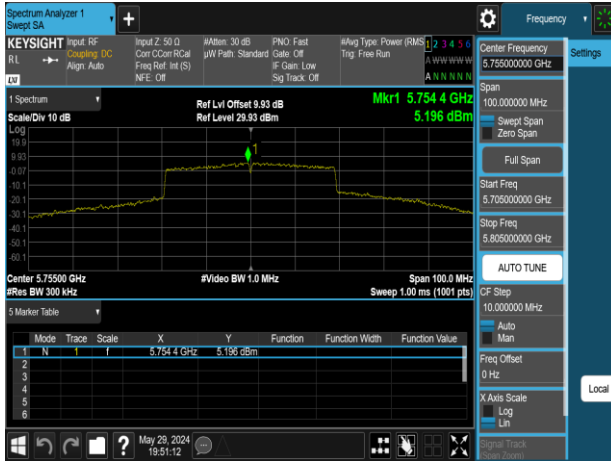
802.11ax\_40MHz\_Chain0\_5670MHz



802.11ax\_40MHz\_Chain1\_5190MHz



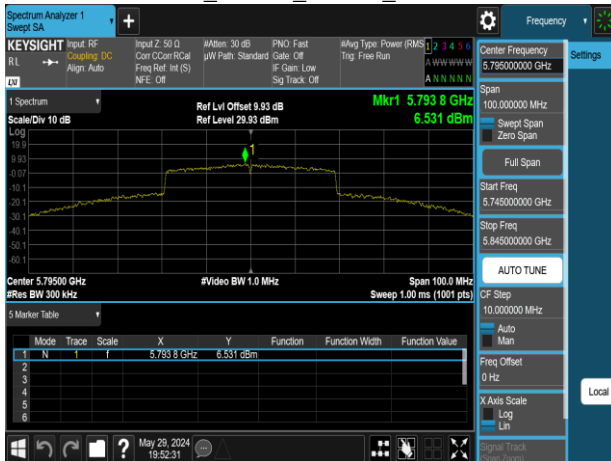
802.11ax\_40MHz\_Chain0\_5755MHz



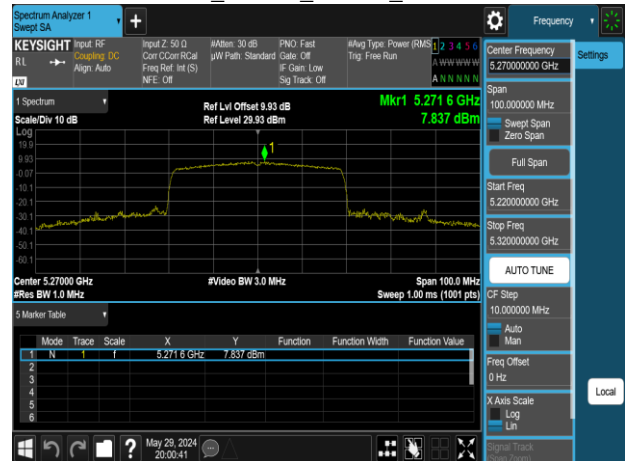
802.11ax\_40MHz\_Chain1\_5230MHz



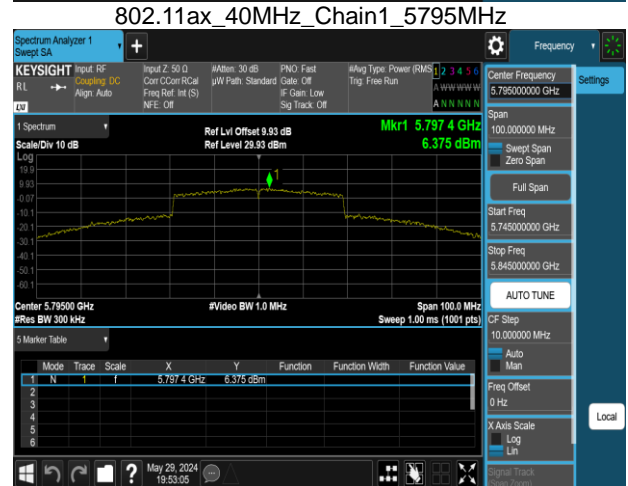
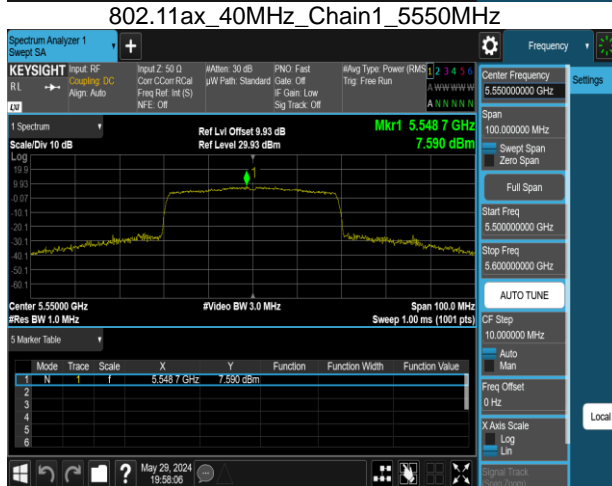
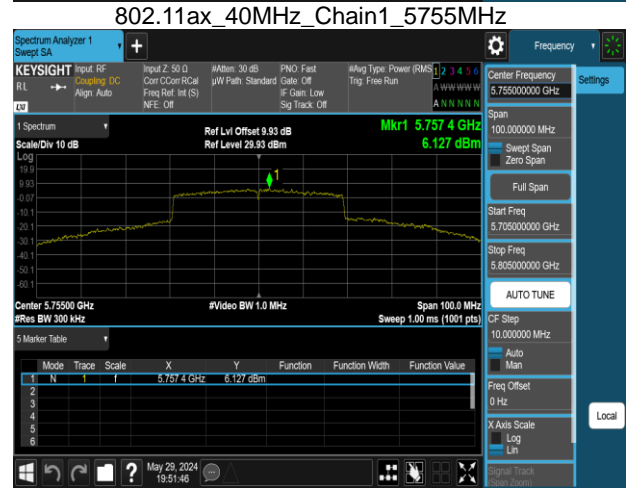
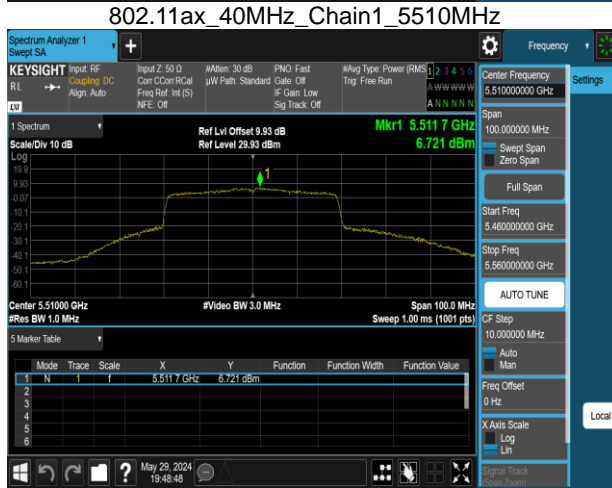
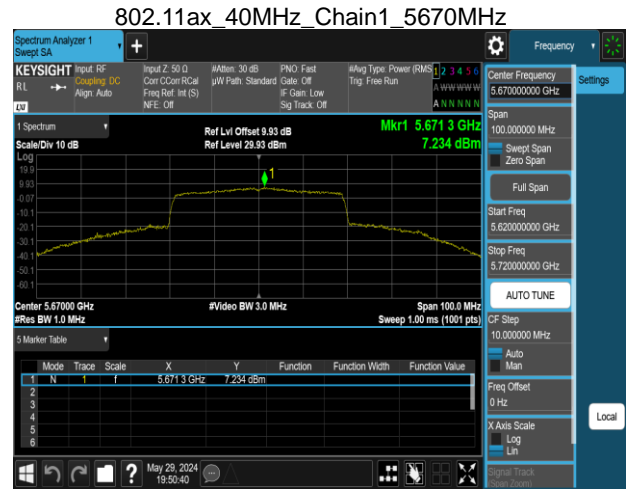
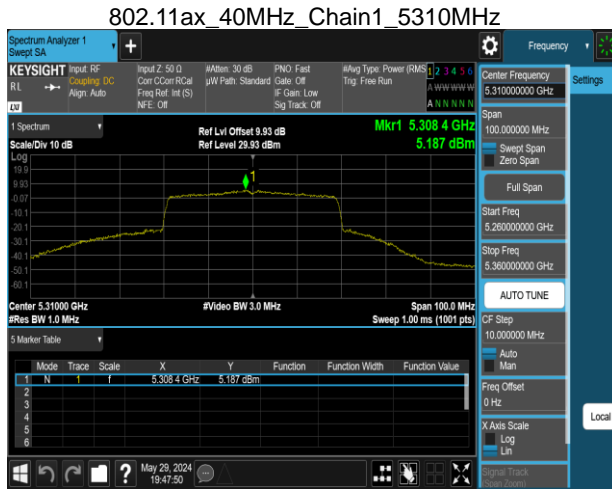
802.11ax\_40MHz\_Chain0\_5795MHz



802.11ax\_40MHz\_Chain1\_5270MHz

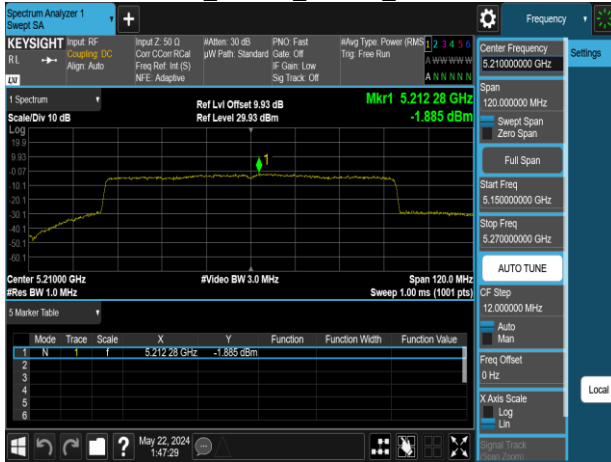


Report No.: TMWK2309003309KR

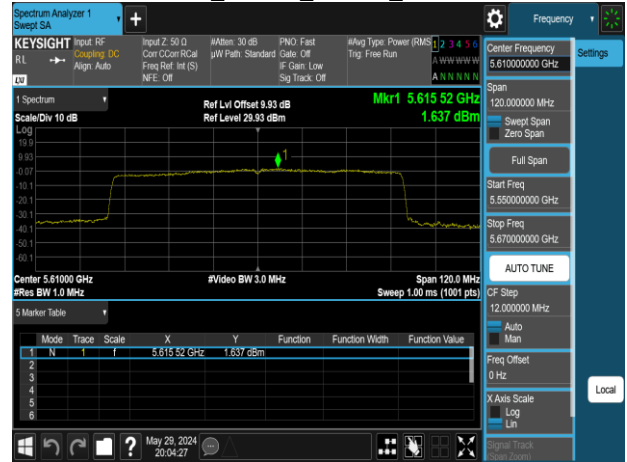


Report No.: TMWK2309003309KR

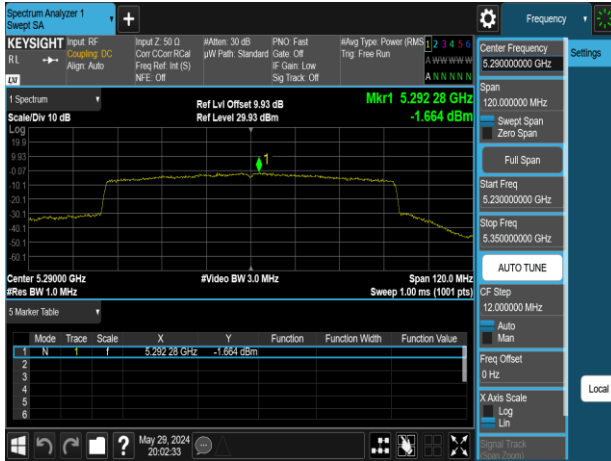
802.11ax\_80MHz\_Chain0\_5210MHz



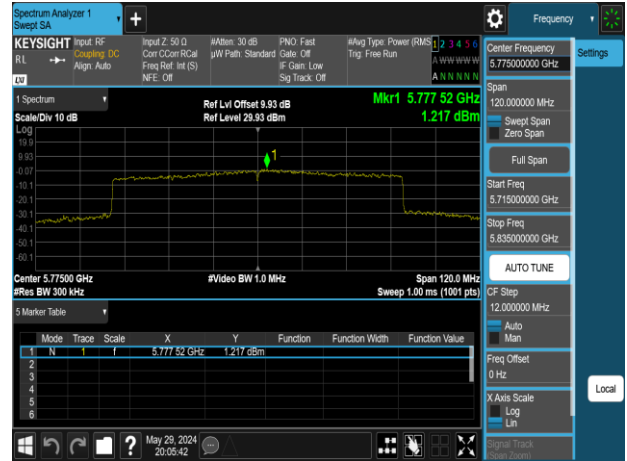
802.11ax\_80MHz\_Chain0\_5610MHz



802.11ax\_80MHz\_Chain0\_5290MHz



802.11ax\_80MHz\_Chain0\_5775MHz

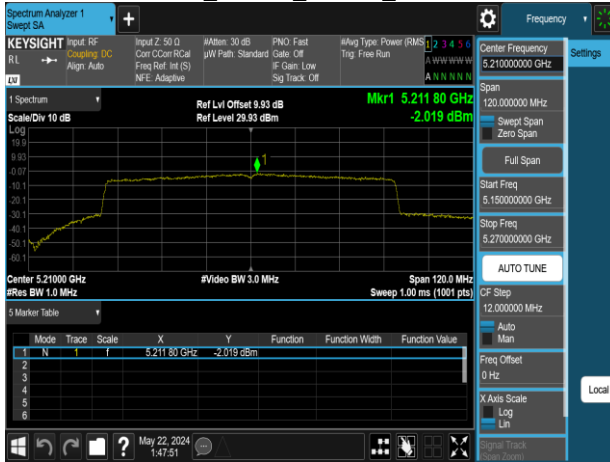


802.11ax\_80MHz\_Chain0\_5530MHz

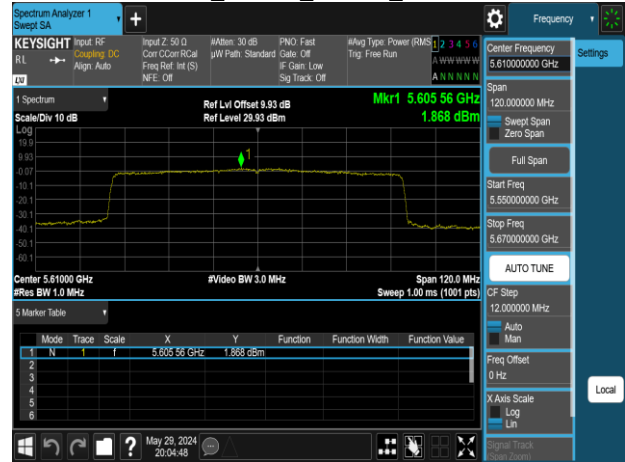


Report No.: TMWK2309003309KR

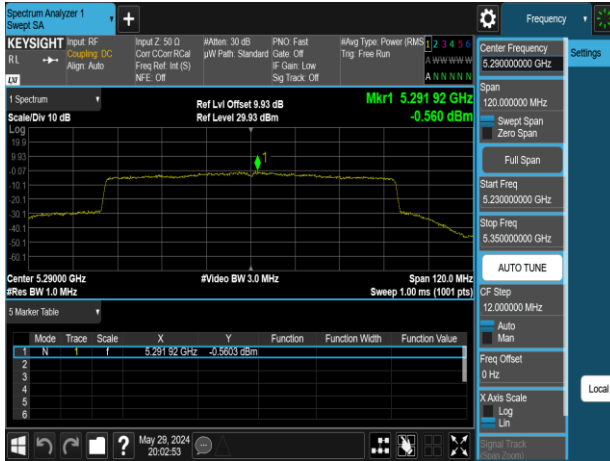
802.11ax\_80MHz\_Chain1\_5210MHz



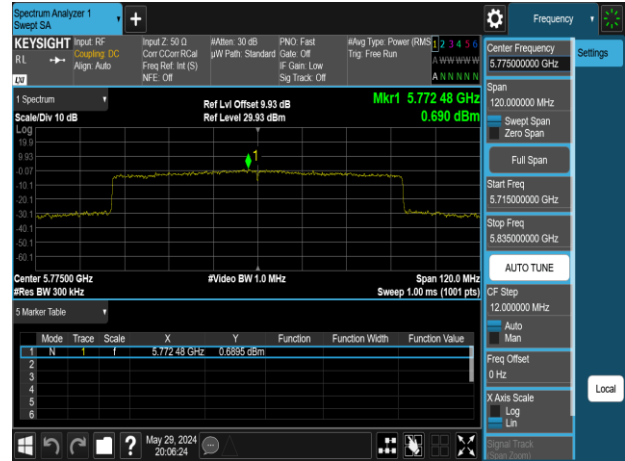
802.11ax\_80MHz\_Chain1\_5610MHz



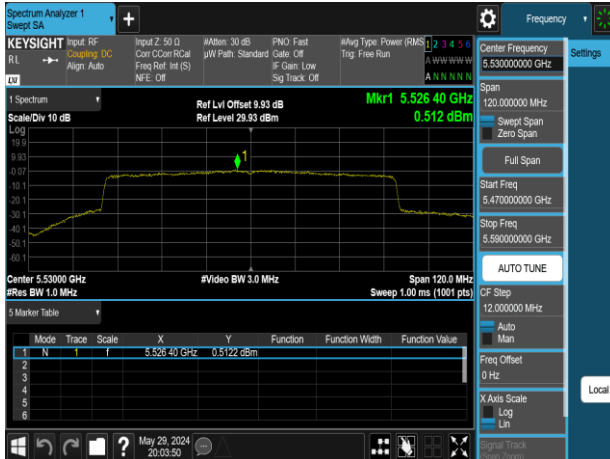
802.11ax\_80MHz\_Chain1\_5290MHz



802.11ax\_80MHz\_Chain1\_5775MHz



802.11ax\_80MHz\_Chain1\_5530MHz



802.11ax\_160MHz\_Chain0\_5250MHz



802.11ax\_160MHz\_Chain1\_5250MHz



802.11ax\_160MHz\_Chain0\_5570MHz



802.11ax\_160MHz\_Chain1\_5570MHz



Report No.: TMWK2309003309KR

## Beamformig

Temperature: 20.3 ~ 25.3°C

Test date: May 21 ~ July 10, 2024

Humidity: 53 ~ 64% RH

Tested by: Marco Chan

POWER DENSITY 802.11n HT20 MODE							
Frequency (MHz)	Ch0 meas PSD (dBm/MHz)	Ch1 meas PSD (dBm/MHz)	Duty Factor (dB)	Maxmum Corr'd PSD(dBm/MHz)		Limit	Margin (dB)
5180	4.976	3.361	0.51	7.76		17.00 dBm/MHz	-9.24
5220	10.783	10.023	0.51	13.94		17.00 dBm/MHz	-3.06
5240	11.086	10.609	0.51	14.37		17.00 dBm/MHz	-2.63
5260	5.202	6.045	0.51	9.16		11.00 dBm/MHz	-1.84
5300	6.229	6.419	0.51	9.85		11.00 dBm/MHz	-1.15
5320	3.536	3.853	0.51	7.22		11.00 dBm/MHz	-3.78
5500	5.384	5.907	0.51	9.17		11.00 dBm/MHz	-1.83
5580	5.912	6.484	0.51	9.73		11.00 dBm/MHz	-1.27
5700	6.701	6.744	0.51	10.24		11.00 dBm/MHz	-0.76
Frequency (MHz)	Ch0 meas PSD (dBm/300kHz)	Ch1 meas PSD (dBm/300kHz)	Duty Factor (dB)	10log (500kHz/RBW) Factor(dB)	Maxmum Corr'd PSD (dBm/500kHz)	Limit	Margin (dB)
5745	7.872	8.060	0.51	2.22	13.71	30.00 dBm/500kHz	-16.29
5785	7.294	7.811	0.51	2.22	13.30	30.00 dBm/500kHz	-16.70
5825	7.980	8.483	0.51	2.22	13.98	30.00 dBm/500kHz	-16.02

POWER DENSITY 802.11n HT40 MODE							
Frequency (MHz)	Ch0 meas PSD (dBm/MHz)	Ch1 meas PSD (dBm/MHz)	Duty Factor (dB)	Maxmum Corr'd PSD(dBm/MHz)		Limit	Margin (dB)
5190	1.765	0.530	0.52	4.72		17.00 dBm/MHz	-12.28
5230	10.100	9.431	0.52	13.31		17.00 dBm/MHz	-3.69
5270	5.756	6.628	0.52	9.74		11.00 dBm/MHz	-1.26
5310	0.418	1.223	0.52	4.37		11.00 dBm/MHz	-6.63
5510	-0.469	-0.173	0.52	3.21		11.00 dBm/MHz	-7.79
5550	6.542	6.411	0.52	10.01		11.00 dBm/MHz	-0.99
5670	1.959	2.953	0.52	6.01		11.00 dBm/MHz	-4.99
Frequency (MHz)	Ch0 meas PSD (dBm/300kHz)	Ch1 meas PSD (dBm/300kHz)	Duty Factor (dB)	10log (500kHz/RBW) Factor(dB)	Maxmum Corr'd PSD (dBm/500kHz)	Limit	Margin (dB)
5755	2.572	2.279	0.52	2.22	8.18	30.00 dBm/500kHz	-21.82
5795	2.407	1.743	0.52	2.22	7.84	30.00 dBm/500kHz	-22.16

**Note:** Since DG<6dBi, there is no need to modify the limit value.



POWER DENSITY 802.11ac VHT80 MODE							
Frequency (MHz)	Ch0 meas PSD (dBm/MHz)	Ch1 meas PSD (dBm/MHz)	Duty Factor (dB)	Maxmum Corr'd PSD(dBm/MHz)		Limit	Margin (dB)
5210	-6.349	-6.698	1.01	-2.50		17.00 dBm/MHz	-19.50
5290	-6.351	-5.443	1.01	-1.85		11.00 dBm/MHz	-12.85
5530	-3.426	-3.183	1.01	0.72		11.00 dBm/MHz	-10.28
5610	-1.026	-0.980	1.01	3.02		11.00 dBm/MHz	-7.98
Frequency (MHz)	Ch0 meas PSD (dBm/300kHz)	Ch1 meas PSD (dBm/300kHz)	Duty Factor (dB)	10log (500kHz/RBW) Factor(dB)	Maxmum Corr'd PSD (dBm/500kHz)	Limit	Margin (dB)
5775	-2.183	-1.692	1.01	2.22	4.31	30.00 dBm/500kHz	-25.69

POWER DENSITY 802.11ac VHT160 MODE							
Frequency (MHz)	Ch0 meas PSD (dBm/MHz)	Ch1 meas PSD (dBm/MHz)	Duty Factor (dB)	Maxmum Corr'd PSD(dBm/MHz)		Limit	Margin (dB)
5250	-9.904	-9.289	3.00	-3.58		11.00 dBm/MHz	-14.58
5570	-9.592	-9.405	3.00	-3.49		11.00 dBm/MHz	-14.49

POWER DENSITY 802.11ax HE20 MODE								
Frequency (MHz)	RU config.	Ch0 meas PSD (dBm/MHz)	Ch1 meas PSD (dBm/MHz)	Duty Factor (dB)	Maxmum Corr'd PSD(dBm/MHz)		Limit	Margin (dB)
5180	full	4.153	3.881	0.35	7.38		17.00 dBm/MHz	-9.62
5220	full	11.371	10.751	0.35	14.43		17.00 dBm/MHz	-2.57
5240	full	11.922	12.004	0.35	15.32		17.00 dBm/MHz	-1.68
5260	full	6.545	7.366	0.35	10.34		11.00 dBm/MHz	-0.66
5300	full	6.280	6.636	0.35	9.82		11.00 dBm/MHz	-1.18
5320	full	4.232	4.831	0.35	7.90		11.00 dBm/MHz	-3.10
5500	full	4.457	4.299	0.35	7.74		11.00 dBm/MHz	-3.26
5580	full	4.315	4.096	0.35	7.57		11.00 dBm/MHz	-3.43
5700	full	4.283	4.012	0.35	7.51		11.00 dBm/MHz	-3.49
Frequency (MHz)	RU config.	Ch0 meas PSD (dBm/300kHz)	Ch1 meas PSD (dBm/300kHz)	Duty Factor (dB)	10log (500kHz/RBW) Factor(dB)	Maxmum Corr'd PSD (dBm/500kHz)	Limit	Margin (dB)
5745	full	8.089	7.872	0.35	2.22	13.56	30.00 dBm/500kHz	-16.44
5785	full	7.461	8.190	0.35	2.22	13.42	30.00 dBm/503kHz	-16.58
5825	full	7.514	8.229	0.35	2.22	13.47	30.00 dBm/504kHz	-16.53

**Note:** Since DG<6dBi, there is no need to modify the limit value.

POWER DENSITY 802.11ax HE40 MODE								
Frequency (MHz)	RU config.	Ch0 meas PSD (dBm/MHz)	Ch1 meas PSD (dBm/MHz)	Duty Factor (dB)	Maxmum Corr'd PSD(dBm/MHz)		Limit	Margin (dB)
5190	full	-0.877	-0.171	0.66	3.16		17.00 dBm/MHz	-13.84
5230	full	8.598	8.358	0.66	12.15		17.00 dBm/MHz	-4.85
5270	full	5.949	6.293	0.66	9.79		11.00 dBm/MHz	-1.21
5310	full	-1.171	-0.557	0.66	2.82		11.00 dBm/MHz	-8.18
5510	full	0.534	0.472	0.66	4.17		11.00 dBm/MHz	-6.83
5550	full	5.387	5.053	0.66	8.89		11.00 dBm/MHz	-2.11
5670	full	3.437	4.430	0.66	7.63		11.00 dBm/MHz	-3.37
Frequency (MHz)	RU config.	Ch0 meas PSD (dBm/300kHz)	Ch1 meas PSD (dBm/300kHz)	Duty Factor (dB)	10log (500kHz/RBW) Factor(dB)	Maxmum Corr'd PSD (dBm/500kHz)	Limit	Margin (dB)
5755	full	4.088	3.507	0.66	2.22	9.70	30.00 dBm/501kHz	-20.30
5795	full	4.800	4.133	0.66	2.22	10.37	30.00 dBm/503kHz	-19.63

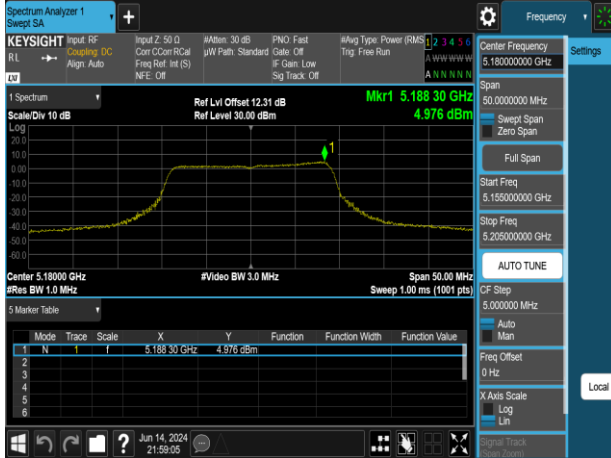
POWER DENSITY 802.11ax HE80 MODE								
Frequency (MHz)	RU config.	Ch0 meas PSD (dBm/MHz)	Ch1 meas PSD (dBm/MHz)	Duty Factor (dB)	Maxmum Corr'd PSD(dBm/MHz)		Limit	Margin (dB)
5210	full	-5.452	-5.355	1.23	-1.16		17.00 dBm/MHz	-18.16
5290	full	-6.610	-5.626	1.23	-1.85		11.00 dBm/MHz	-12.85
5530	full	-4.468	-4.274	1.23	-0.13		11.00 dBm/MHz	-11.13
5610	full	-1.777	-2.043	1.23	2.33		11.00 dBm/MHz	-8.67
Frequency (MHz)	RU config.	Ch0 meas PSD (dBm/300kHz)	Ch1 meas PSD (dBm/300kHz)	Duty Factor (dB)	10log (500kHz/RBW) Factor(dB)	Maxmum Corr'd PSD (dBm/500kHz)	Limit	Margin (dB)
5775	full	-1.578	-1.849	1.23	2.22	4.75	30.00 dBm/500kHz	-25.25

POWER DENSITY 802.11ax HE160 MODE								
Frequency (MHz)	RU config.	Ch0 meas PSD (dBm/MHz)	Ch1 meas PSD (dBm/MHz)	Duty Factor (dB)	Maxmum Corr'd PSD(dBm/MHz)		Limit	Margin (dB)
5250	full	-8.193	-8.702	3.26	-2.17		11.00 dBm/MHz	-13.17
5570	full	-9.456	-8.268	3.26	-2.55		11.00 dBm/MHz	-13.55

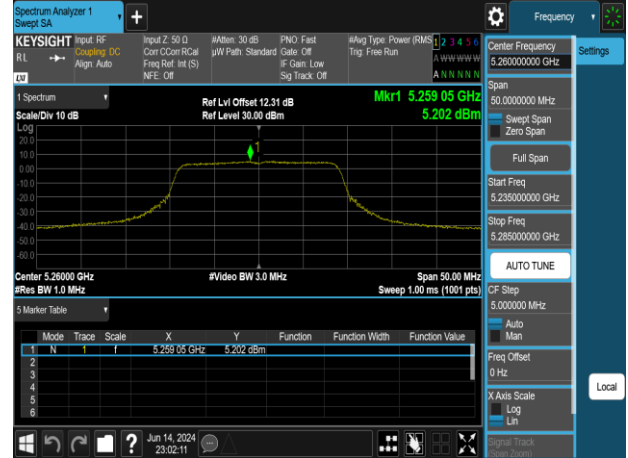
**Note:** Since DG<6dBi, there is no need to modify the limit value.

## Test Data

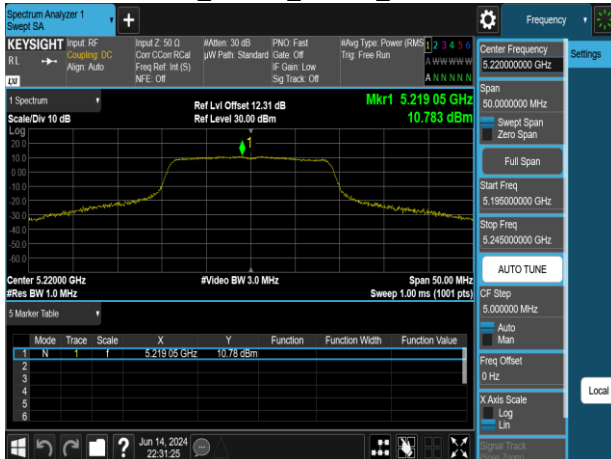
802.11n\_20MHz\_Chain0\_5180MHz



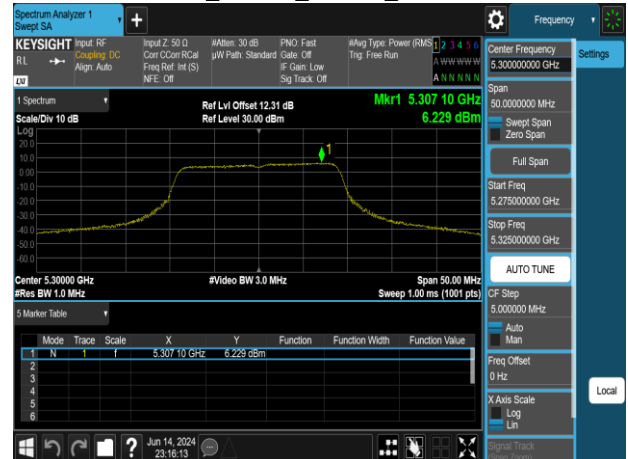
802.11n\_20MHz\_Chain0\_5260MHz



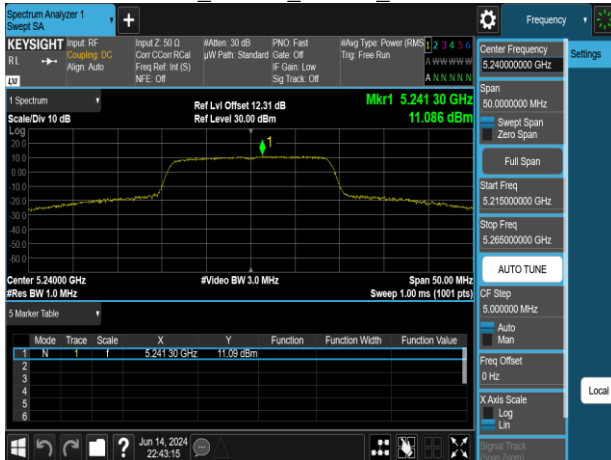
802.11n\_20MHz\_Chain0\_5220MHz



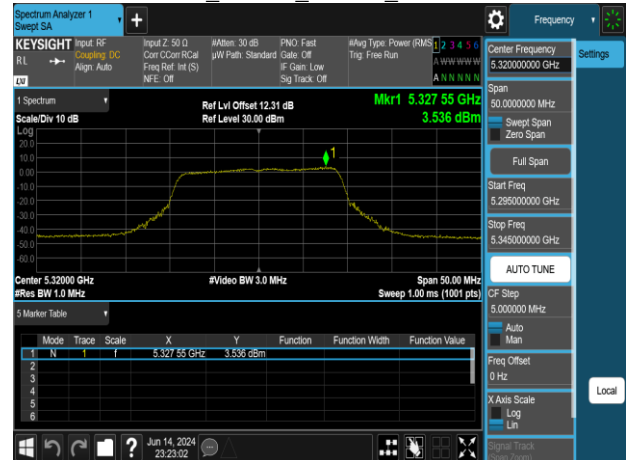
802.11n\_20MHz\_Chain0\_5300MHz



802.11n\_20MHz\_Chain0\_5240MHz

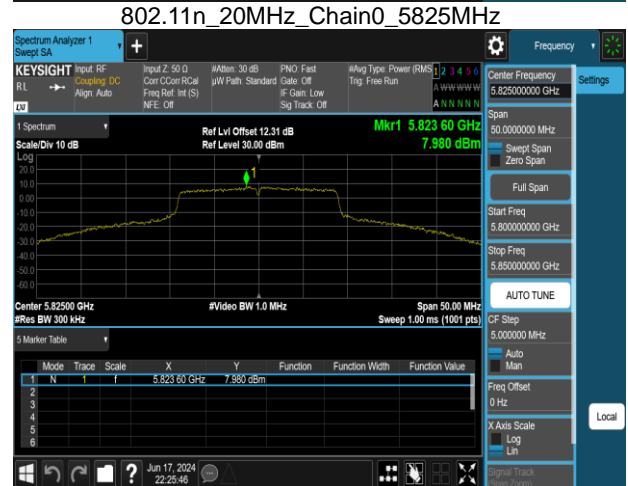
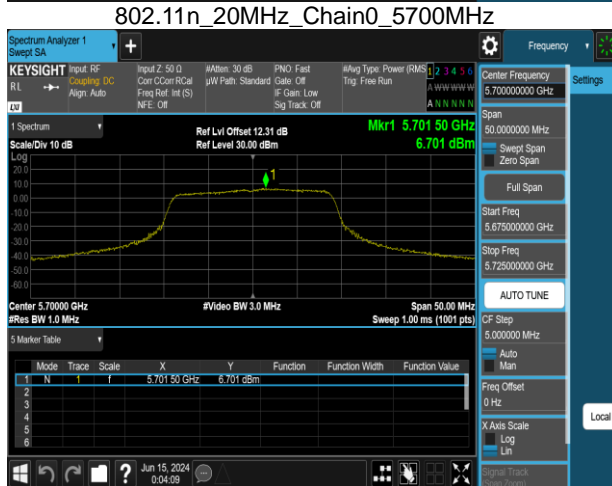
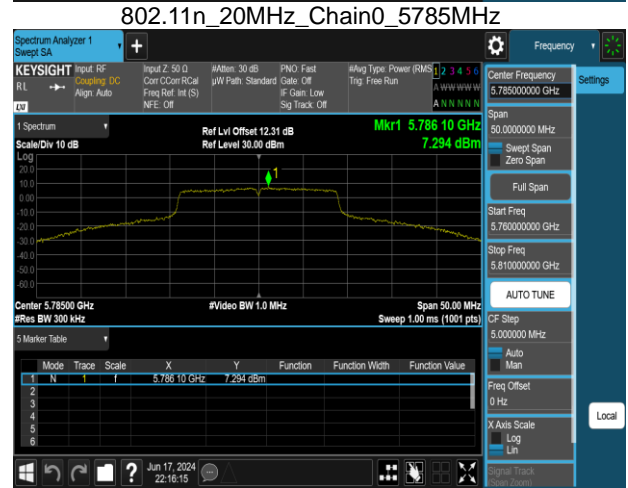
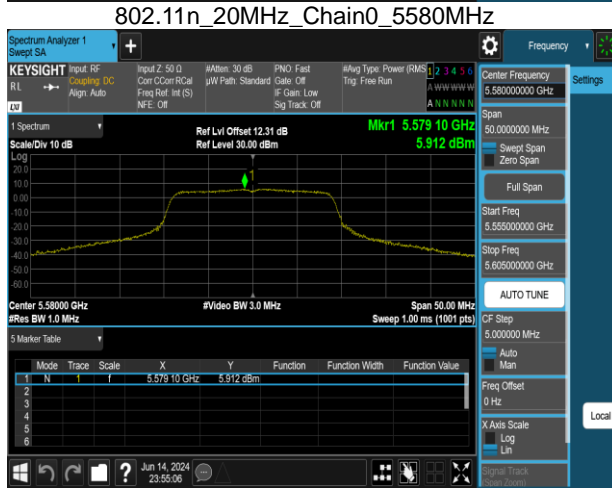
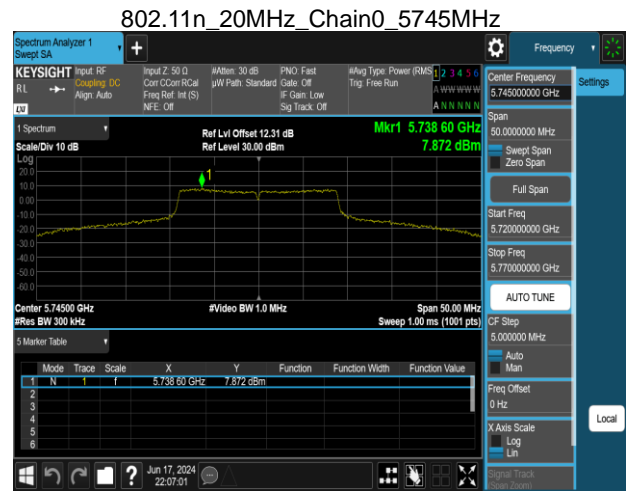
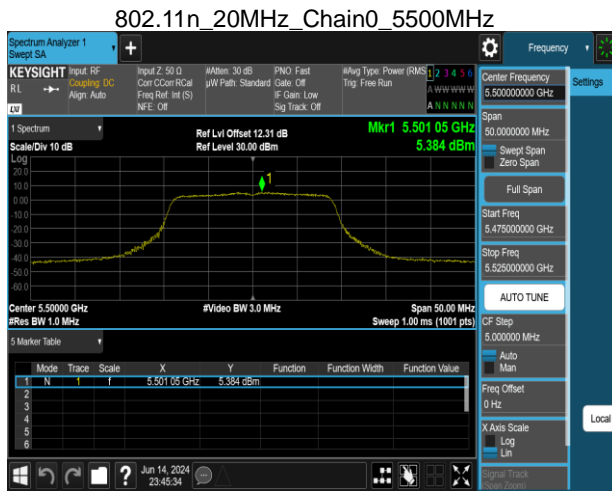


802.11n\_20MHz\_Chain0\_5320MHz

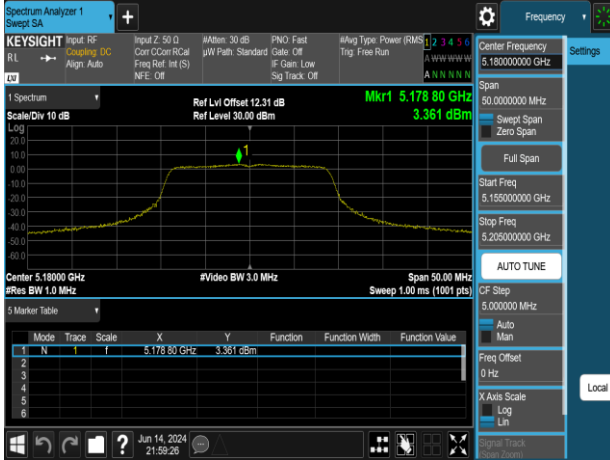




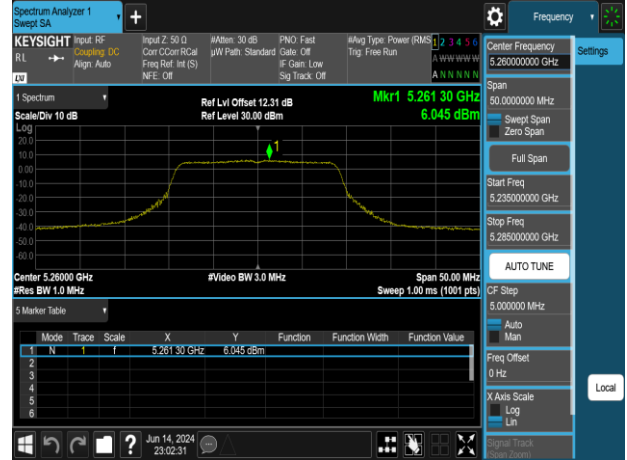
Report No.: TMWK2309003309KR



802.11n\_20MHz\_Chain1\_5180MHz



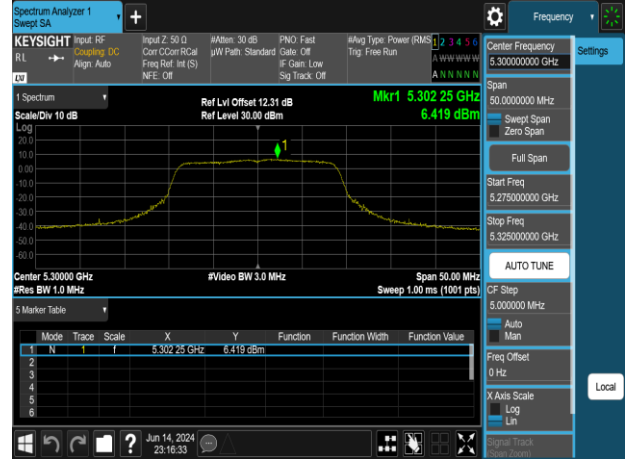
802.11n\_20MHz\_Chain1\_5260MHz



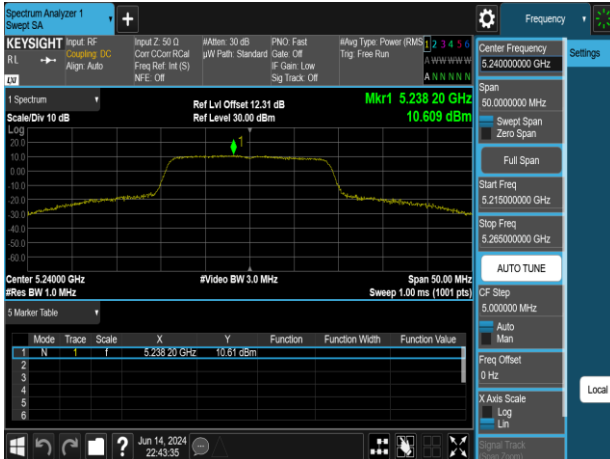
802.11n\_20MHz\_Chain1\_5220MHz



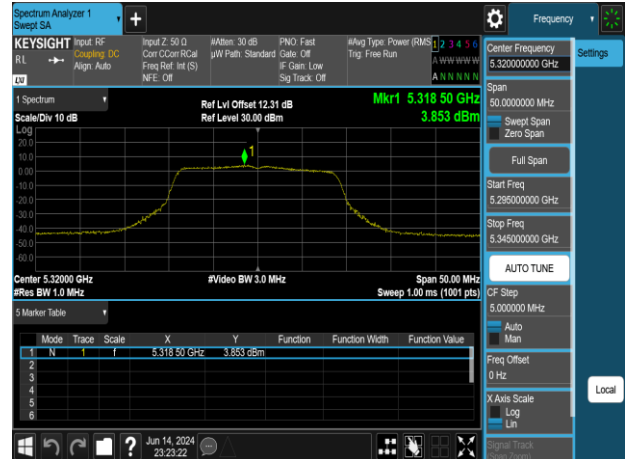
802.11n\_20MHz\_Chain1\_5300MHz



802.11n\_20MHz\_Chain1\_5240MHz

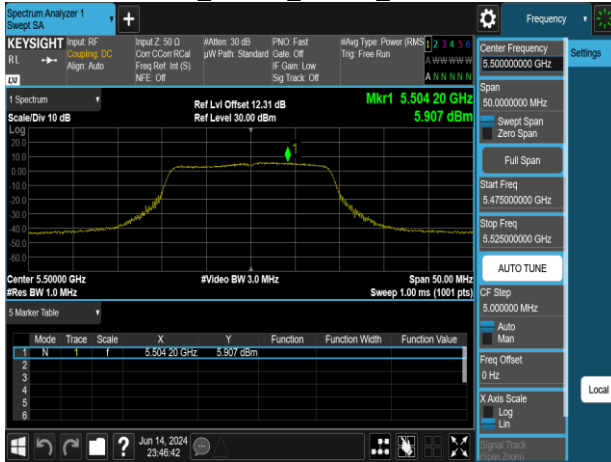


802.11n\_20MHz\_Chain1\_5320MHz

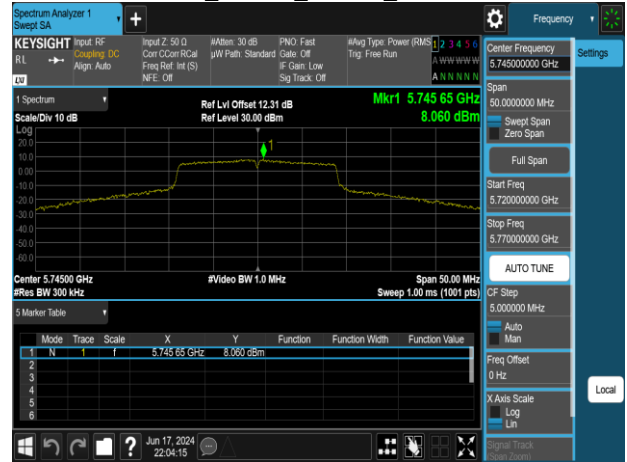


Report No.: TMWK2309003309KR

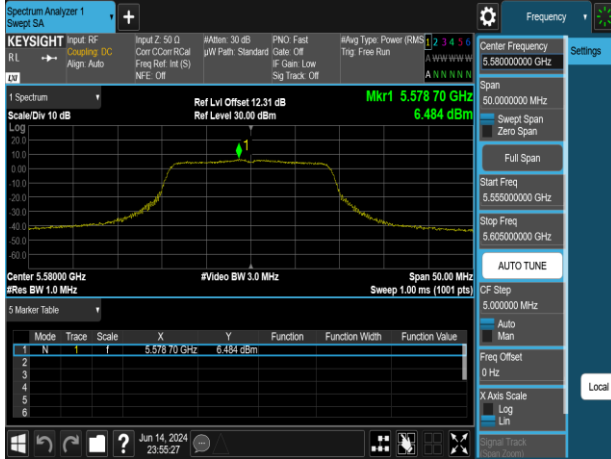
802.11n\_20MHz\_Chain1\_5500MHz



802.11n\_20MHz\_Chain1\_5745MHz



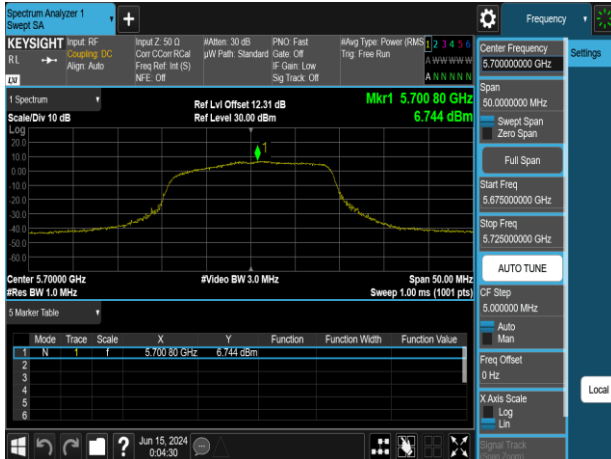
802.11n\_20MHz\_Chain1\_5580MHz



802.11n\_20MHz\_Chain1\_5785MHz



802.11n\_20MHz\_Chain1\_5700MHz



802.11n\_20MHz\_Chain1\_5825MHz

