

Appendix A: Test Results of 5.2G SDR

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Appendix A.1: Test Results of Conducted Power Spectral Density

5.2GHz SDR, 10MHz BW

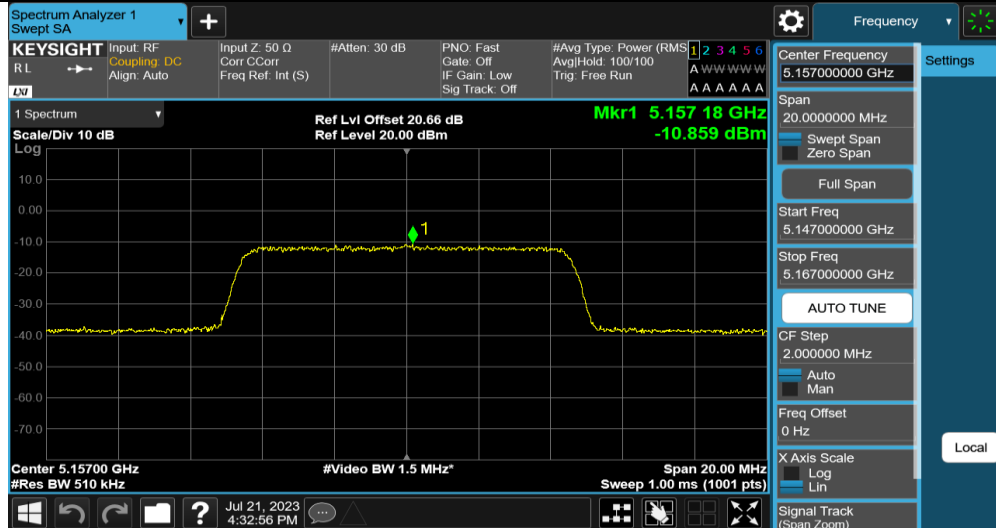
MIMO mode (Worst case_ANT0+ANT3)

TestMode	Antenna	Channel	Result[dBm/500kHz]	Limit[dBm/500kHz]	Verdict
10MHz	Ant0	5157	-10.86	≤NA	PASS
	Ant3	5157	-6.74	≤NA	PASS
	total	5157	-5.32	≤NA	PASS
	Ant0	5201	4.07	≤11.00	PASS
	Ant3	5201	5.74	≤11.00	PASS
	total	5201	8	≤11.00	PASS
	Ant0	5245	4.43	≤11.00	PASS
	Ant3	5245	-18.71	≤11.00	PASS
	total	5245	4.45	≤11.00	PASS

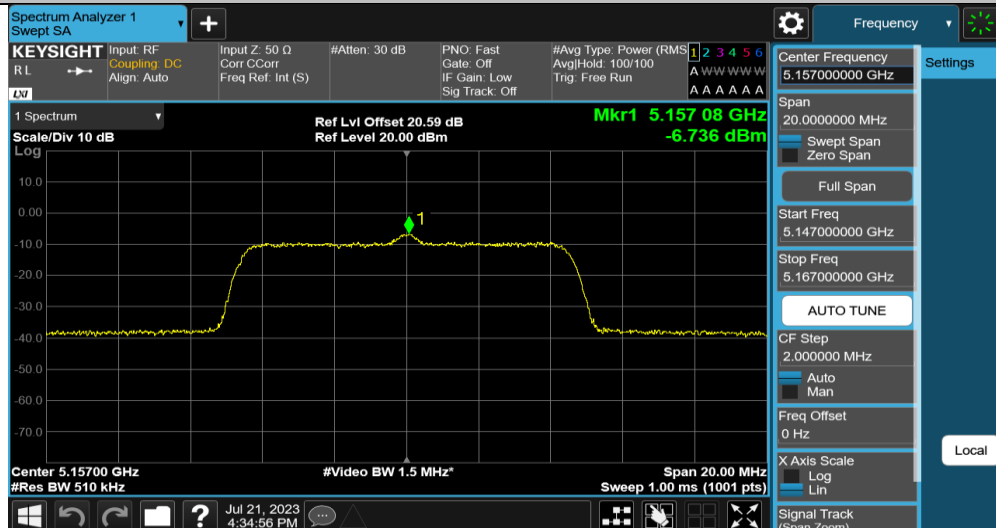
Note:

1. The Result and Limit Unit is dBm/500 kHz in the band 5.725–5.85 GHz.
2. The Duty Cycle Factor and RBW Factor is compensated in the graph.

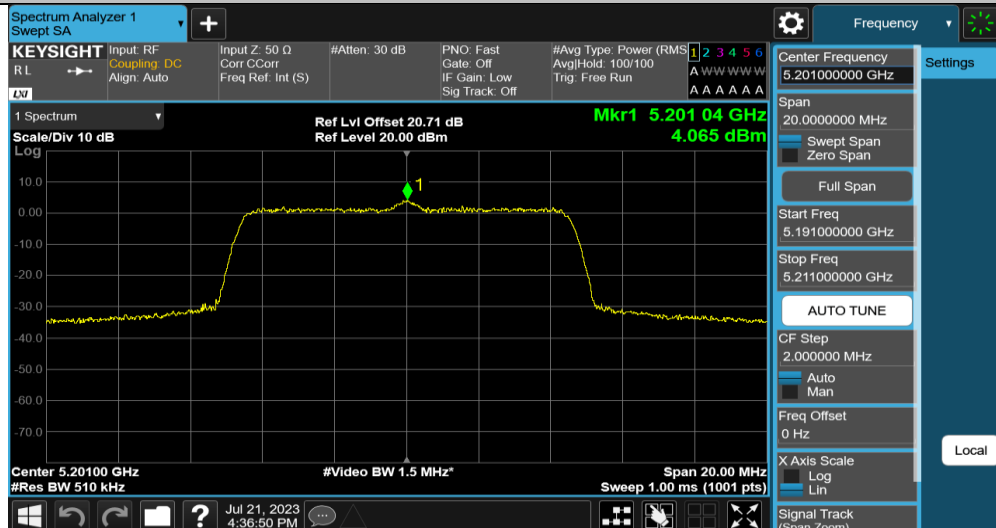
10MHz_Ant0_5157



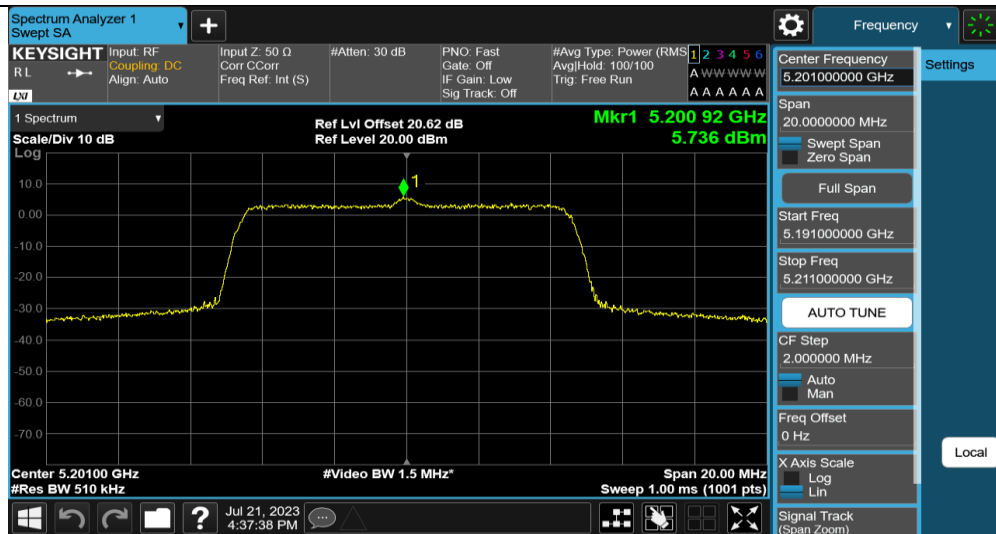
10MHz_Ant3_5157



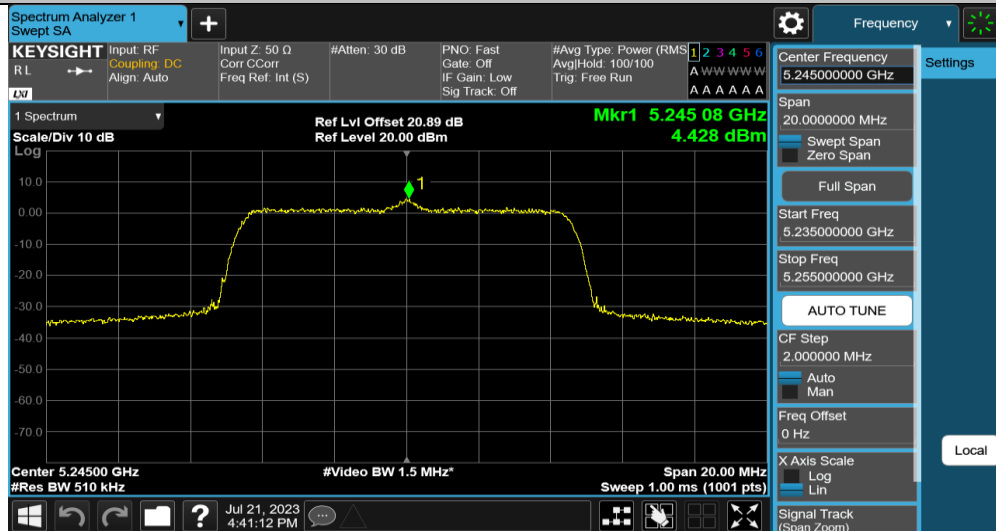
10MHz_Ant0_5201



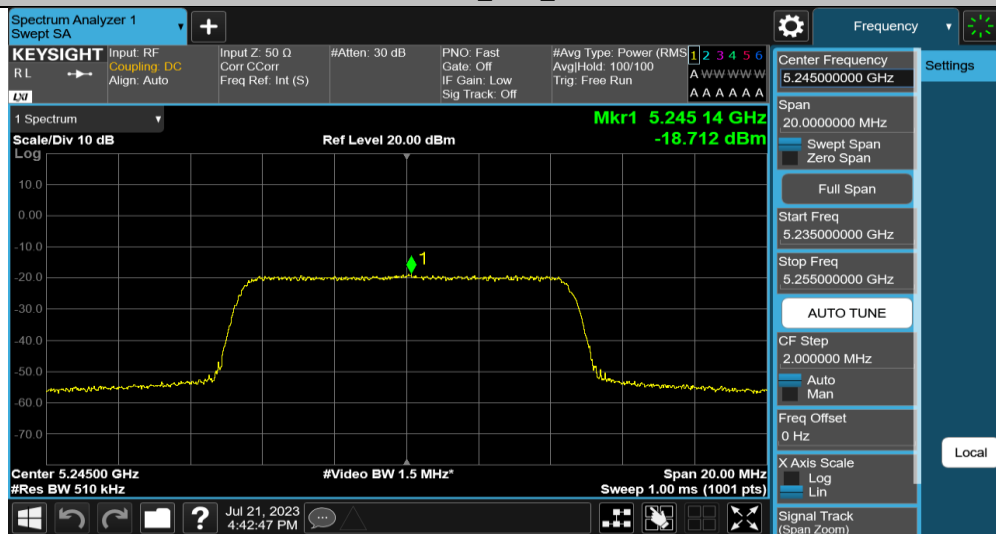
10MHz_Ant3_5201



10MHz_Ant0_5245



10MHz_Ant3_5245



SISO mode (Worst case_ANT2)

TestMode	Antenna	Channel	Result[dBm/500kHz]	Limit[dBm/500kHz]	Verdict
10MHz	Ant2	5157	-6.94	≤NA	PASS
		5201	7.65	≤NA	PASS
		5245	6.37	≤11.00	PASS

Note:

1. The Result and Limit Unit is dBm/500 kHz in the band 5.725–5.85 GHz.
2. The Duty Cycle Factor and RBW Factor is compensated in the graph.



5.2GHz SDR, 20MHz BW

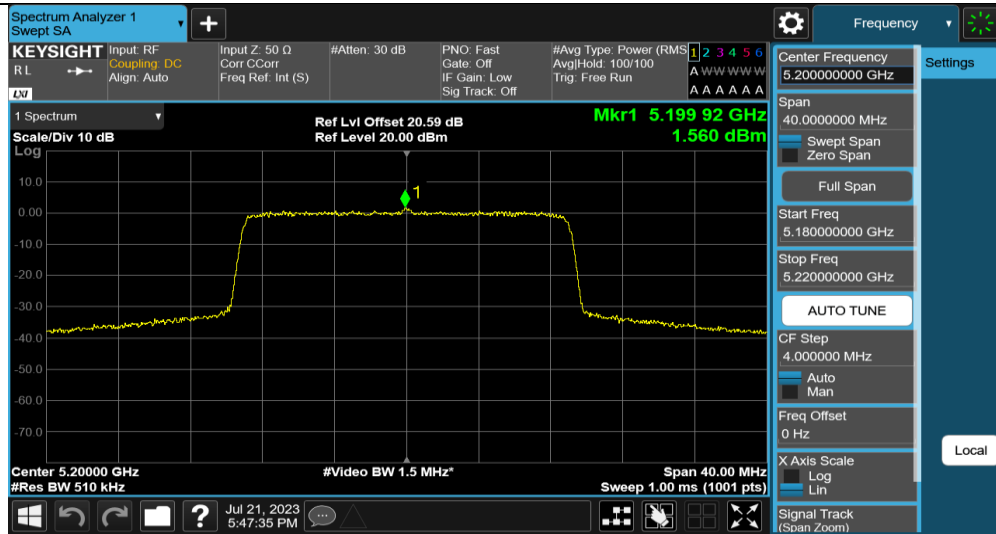
MIMO mode (Worst case_ANT0+ANT3)

TestMode	Antenna	Channel	Result[dBm/500kHz]	Limit[dBm/500kHz]	Verdict
20MHz	Ant0	5161	-7.38	≤NA	PASS
	Ant3	5161	-6.86	≤NA	PASS
	total	5161	-4.1	≤NA	PASS
	Ant0	5200	2.18	≤11.00	PASS
	Ant3	5200	1.56	≤11.00	PASS
	total	5200	4.89	≤11.00	PASS
	Ant0	5240	1.47	≤11.00	PASS
	Ant3	5240	-0.86	≤11.00	PASS
	total	5240	3.45	≤11.00	PASS

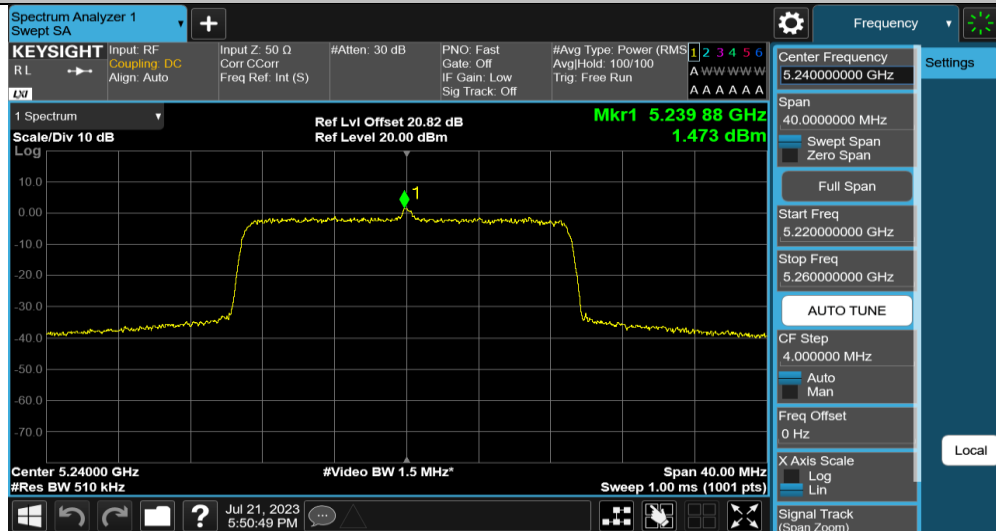
Note:

1. The Result and Limit Unit is dBm/500 kHz in the band 5.725–5.85 GHz.
2. The Duty Cycle Factor and RBW Factor is compensated in the graph.

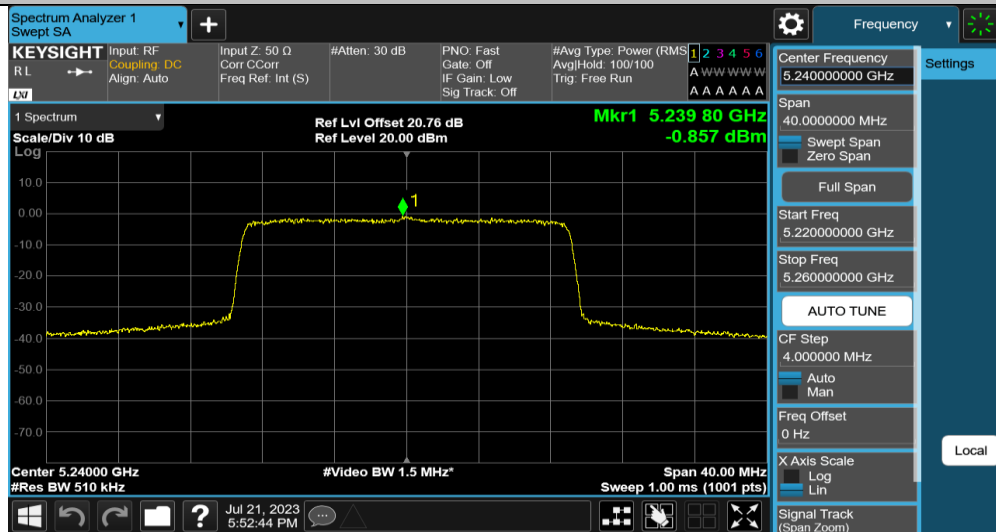




20MHz_Ant0_5240



20MHz_Ant3_5240

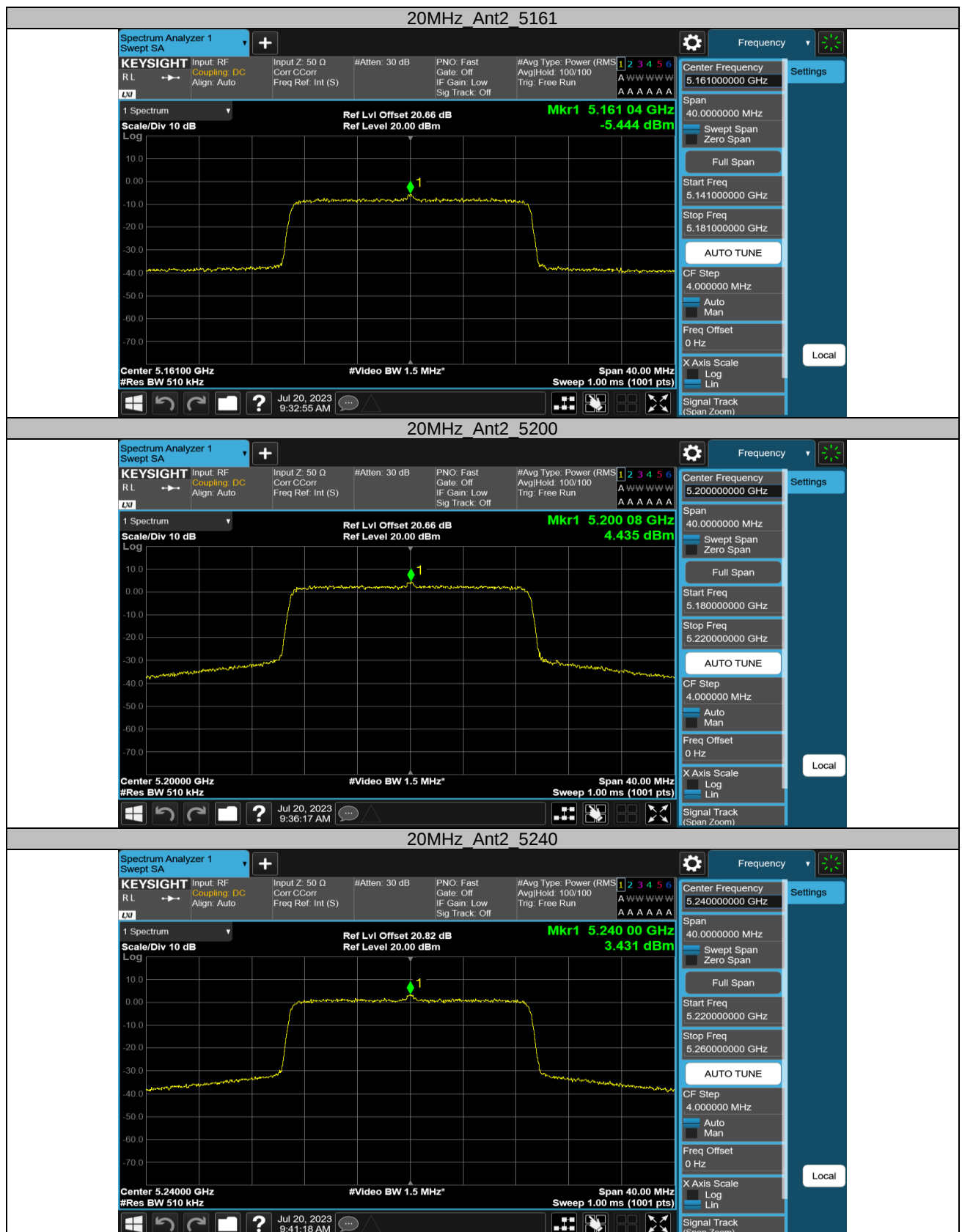


SISO mode (Worst case_ANT2)

TestMode	Antenna	Channel	Result[dBm/500kHz]	Limit[dBm/500kHz]	Verdict
20MHz	Ant2	5161	-5.44	≤11.00	PASS
		5200	4.44	≤11.00	PASS
		5240	3.43	≤11.00	PASS

Note:

1. The Result and Limit Unit is dBm/500 kHz in the band 5.725–5.85 GHz.
2. The Duty Cycle Factor and RBW Factor is compensated in the graph.



5.2GHz SDR, 40MHz BW

MIMO mode (Worst case_ANT0+ANT3)

TestMode	Antenna	Channel	Result[dBm/500kHz]	Limit[dBm/500kHz]	Verdict
40MHz	Ant0	5170	-10.93	≤11.00	PASS
	Ant3	5170	-10.89	≤11.00	PASS
	total	5170	-7.9	≤11.00	PASS
	Ant0	5200	-2.8	≤11.00	PASS
	Ant3	5200	-2.29	≤11.00	PASS
	total	5200	0.47	≤11.00	PASS
	Ant0	5230	-4.7	≤11.00	PASS
	Ant3	5230	-4.59	≤11.00	PASS
	total	5230	-1.63	≤11.00	PASS

Note:

1. The Result and Limit Unit is dBm/500 kHz in the band 5.725–5.85 GHz.
2. The Duty Cycle Factor and RBW Factor is compensated in the graph.



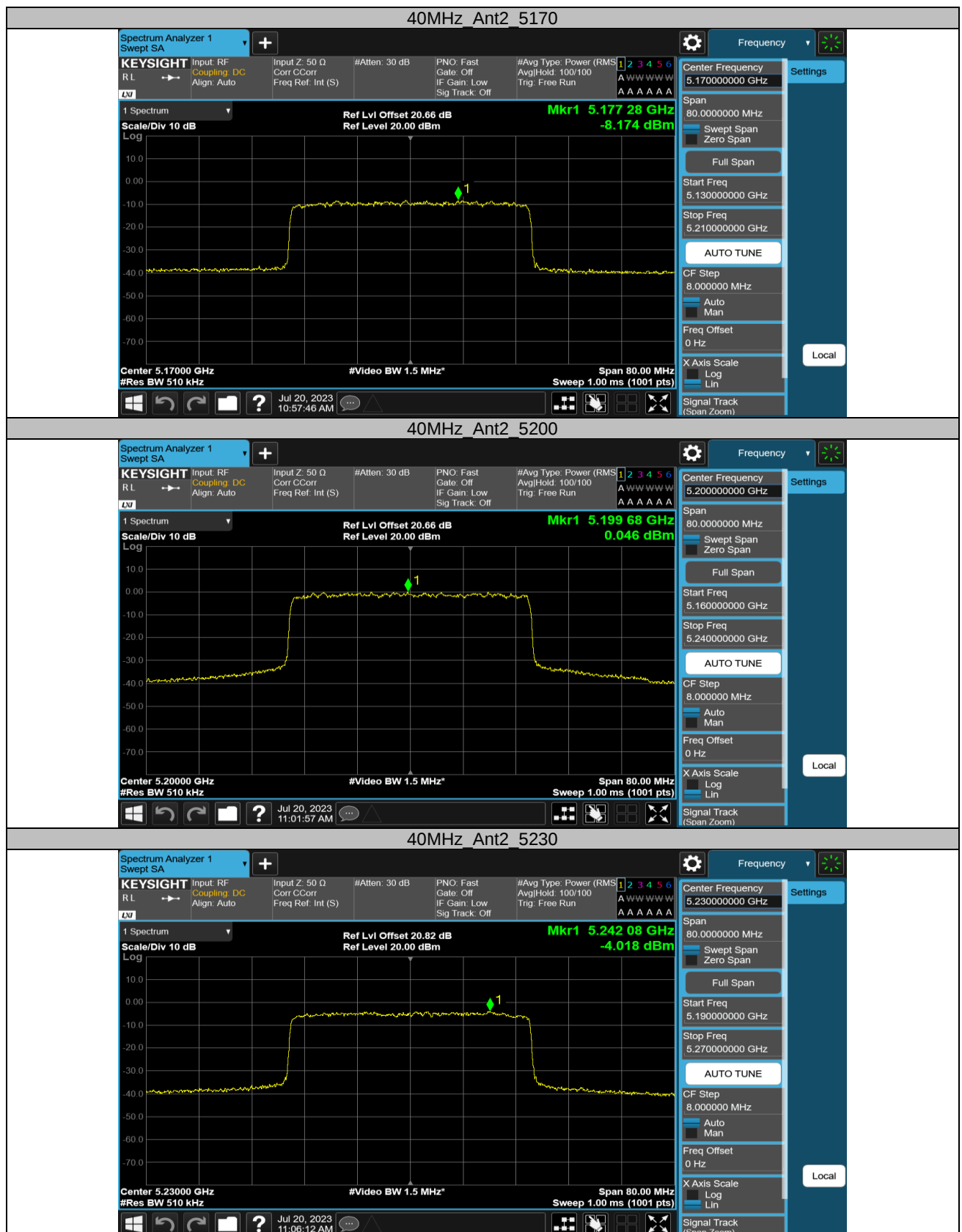


SISO mode (Worst case_ANT2)

TestMode	Antenna	Channel	Result[dBm/500kHz]	Limit[dBm/500kHz]	Verdict
40MHz	Ant2	5170	-8.17	≤NA	PASS
		5200	0.05	≤NA	PASS
		5230	-4.02	≤11.00	PASS

Note:

1. The Result and Limit Unit is dBm/500 kHz in the band 5.725–5.85 GHz.
2. The Duty Cycle Factor and RBW Factor is compensated in the graph.



Appendix A.2: Test Results of Frequency Stability

Voltage								
TestMode	Antenna	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
10MHz	Ant2	5157	NV	NT	-2000.00	-0.387822	20	PASS
		5201	NV	NT	-1000.00	-0.192271	20	PASS
		5245	NV	NT	-2000.00	-0.381316	20	PASS

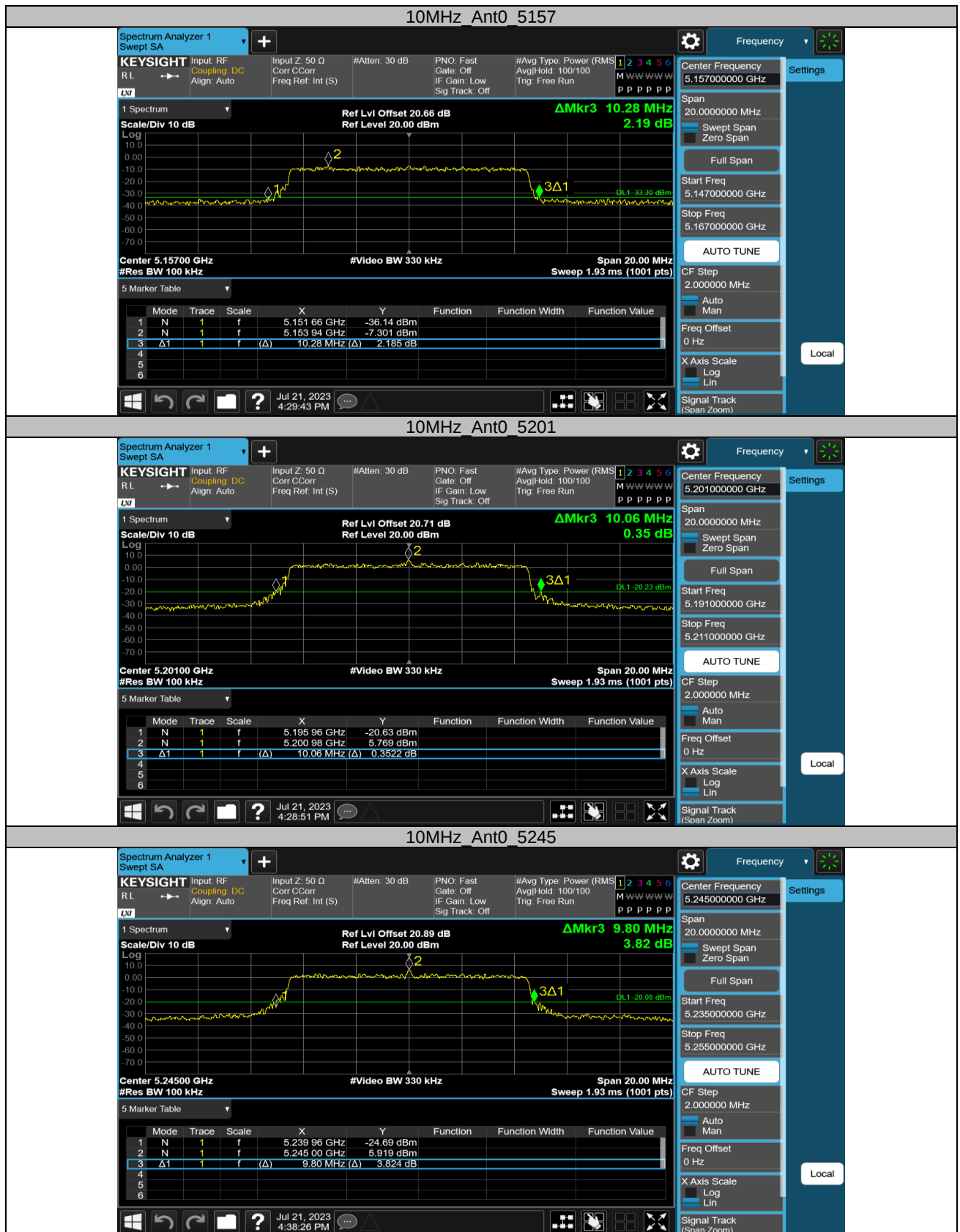
Voltage								
TestMode	Antenna	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
20MHz	Ant2	5161	NV	NT	1000.00	0.193761	20	PASS
		5200	NV	NT	0.00	0.000000	20	PASS
		5240	NV	NT	0.00	0.000000	20	PASS

Voltage								
TestMode	Antenna	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
40MHz	Ant2	5170	NV	NT	-1000.00	-0.193424	20	PASS
		5200	NV	NT	-1000.00	-0.192308	20	PASS
		5230	NV	NT	-1000.00	-0.191205	20	PASS

Appendix A.3: Test Results of 26dB Bandwidth

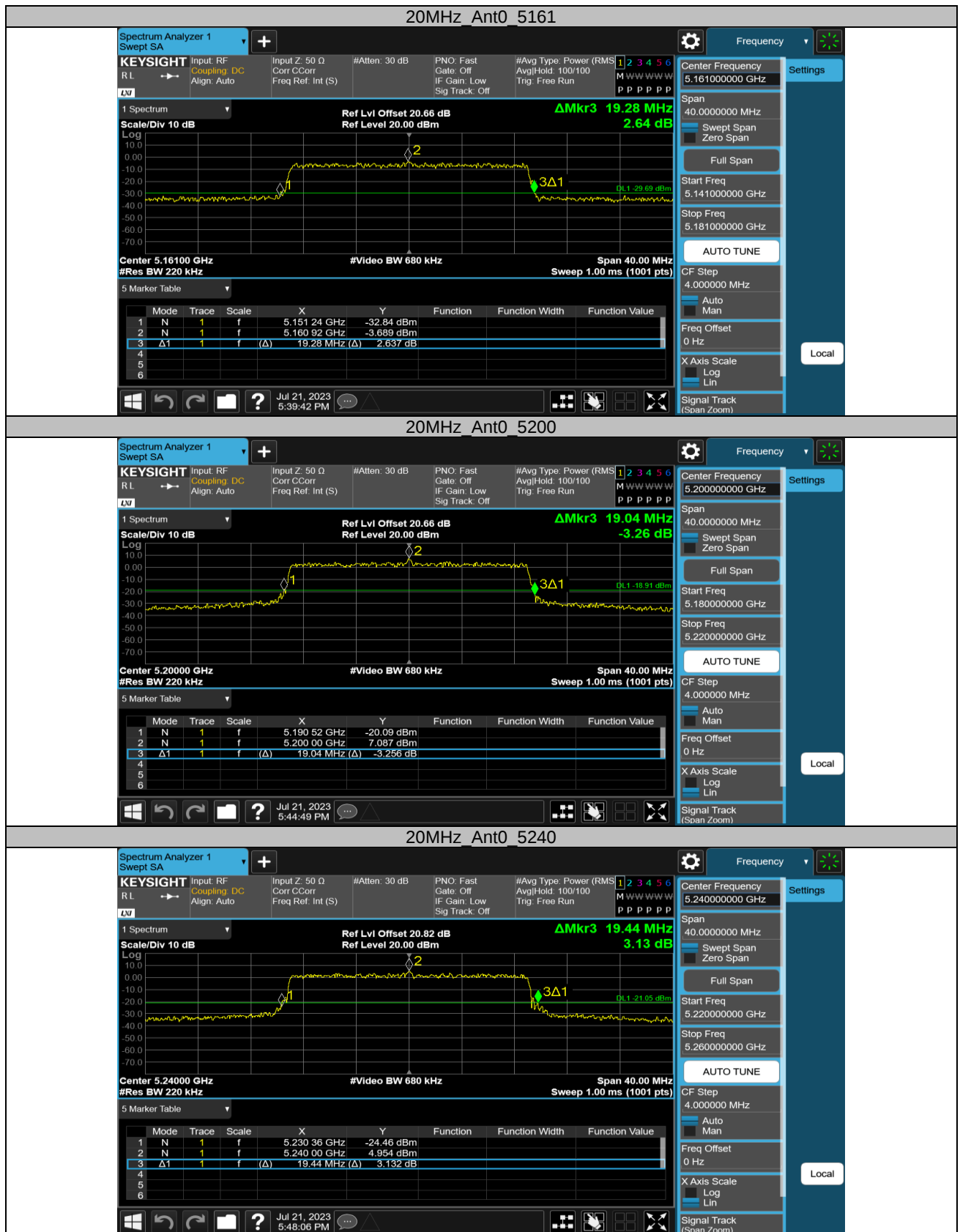
5.2GHz SDR, 10MHz BW

TestMode	Antenna	Channel	26dB EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
10MHz	Ant0	5157	10.280	5151.660	5161.940	---	PASS
		5201	10.060	5195.960	5206.020	---	PASS
		5245	9.800	5239.960	5249.760	---	PASS



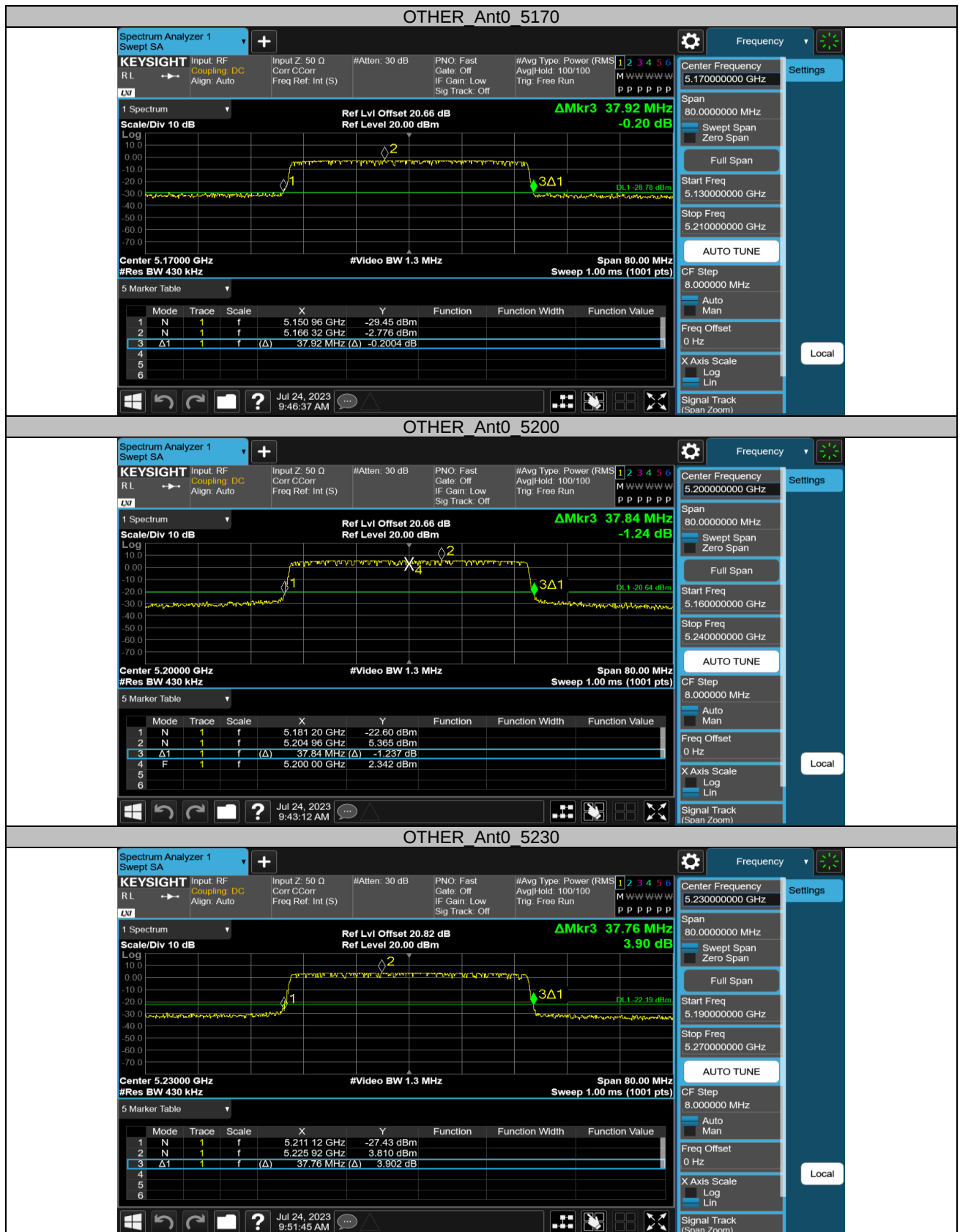
5.2GHz SDR, 20MHz BW

TestMode	Antenna	Channel	26dB EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
20MHz	Ant0	5161	19.280	5151.240	5170.520	---	PASS
		5200	19.040	5190.520	5209.560	---	PASS
		5240	19.440	5230.360	5249.800	---	PASS



5.2GHz SDR, 40MHz BW

TestMode	Antenna	Channel	26dB EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
OTHER	Ant0	5170	37.920	5150.960	5188.880	---	PASS
		5200	37.840	5181.200	5219.040	---	PASS
		5230	37.760	5211.120	5248.880	---	PASS

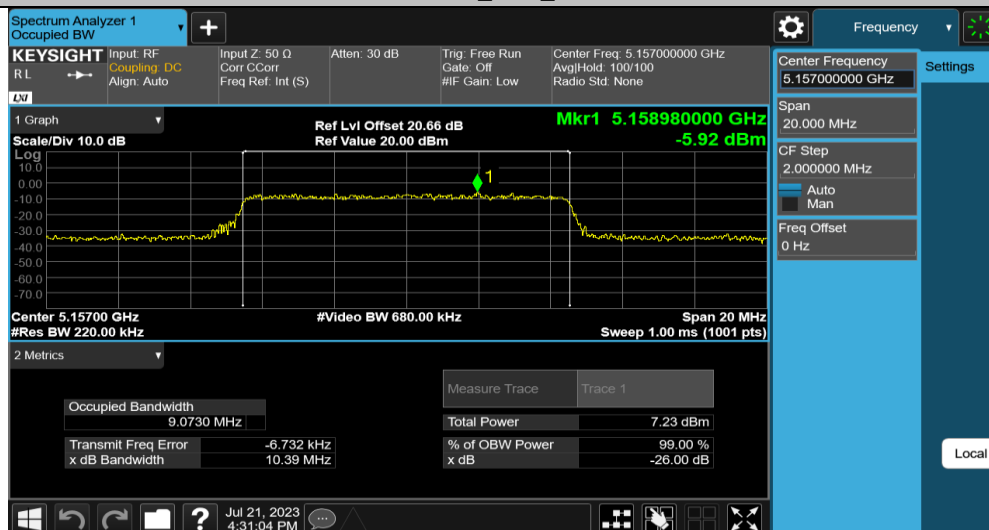


Appendix A.4: Test Results of 99% Bandwidth

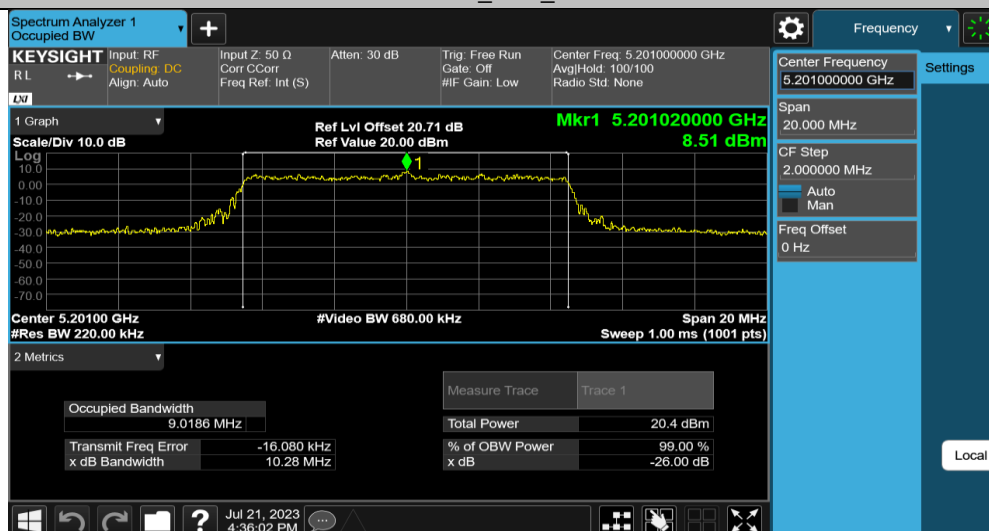
5.2GHz SDR, 10MHz BW

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
10MHz	Ant0	5157	9.0730	5152.4568	5161.5298	---	PASS
		5201	9.0186	5196.4746	5205.4932	---	PASS
		5245	8.9720	5240.5095	5249.4815	---	PASS

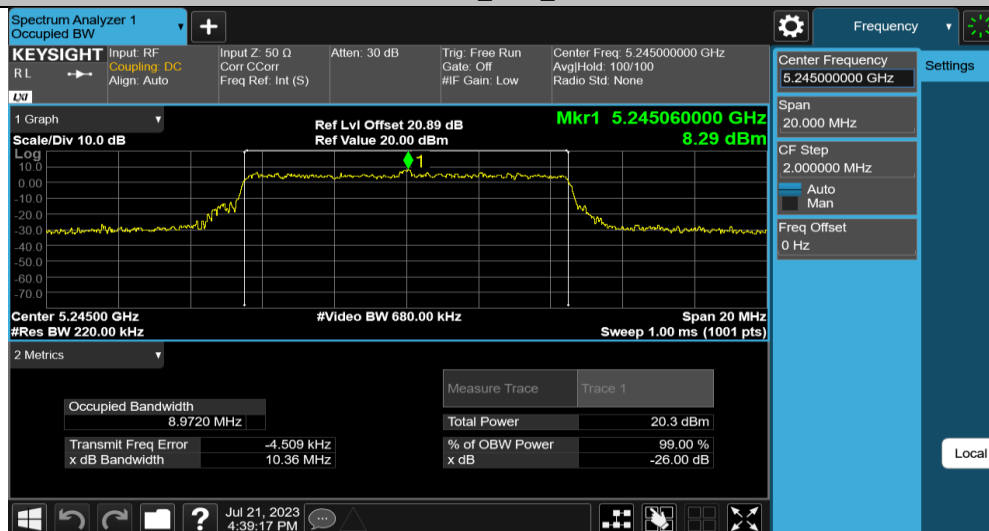
10MHz_Ant0_5157



10MHz_Ant0_5201



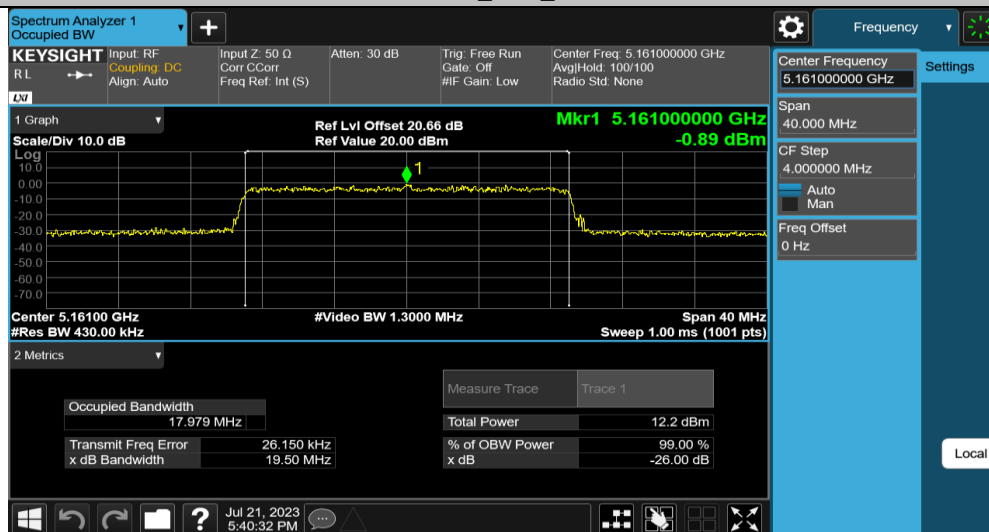
10MHz_Ant0_5245



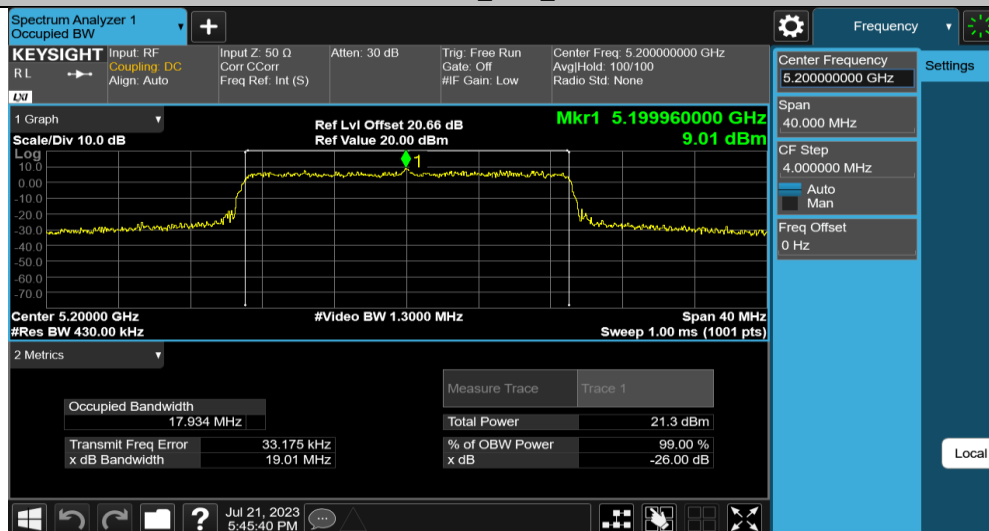
5.2GHz SDR, 20MHz BW

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
20MHz	Ant0	5161	17.979	5152.0367	5170.0157	---	PASS
		5200	17.934	5191.0662	5209.0002	---	PASS
		5240	17.895	5231.0638	5248.9588	---	PASS

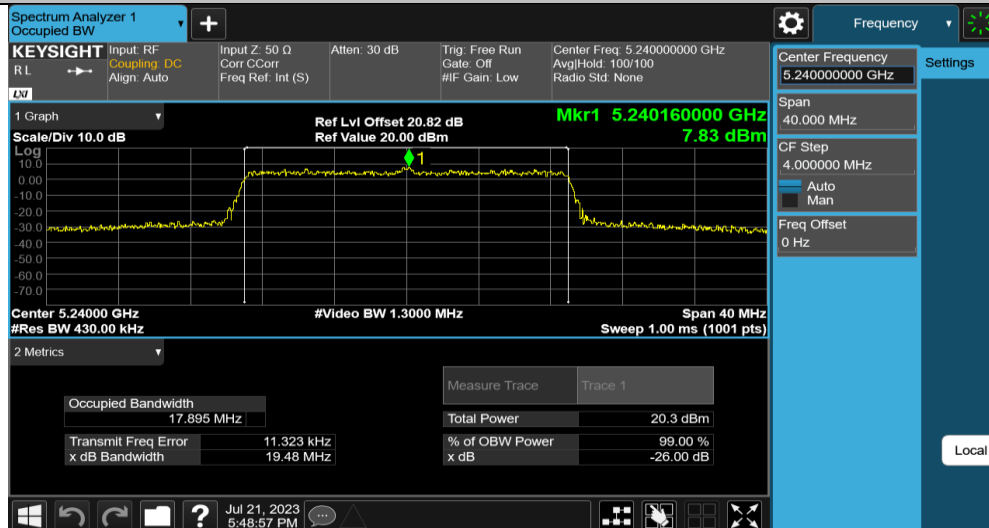
20MHz_Ant0_5161



20MHz_Ant0_5200



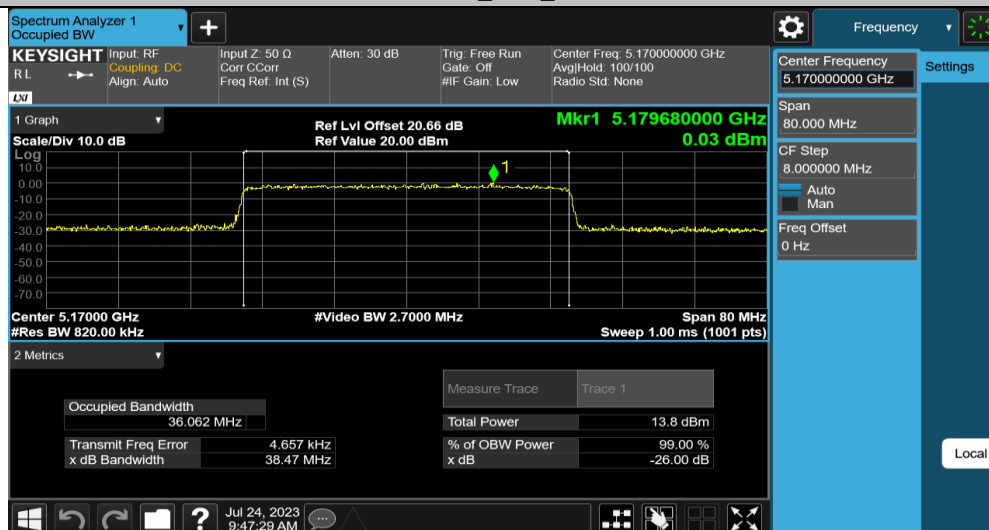
20MHz_Ant0_5240



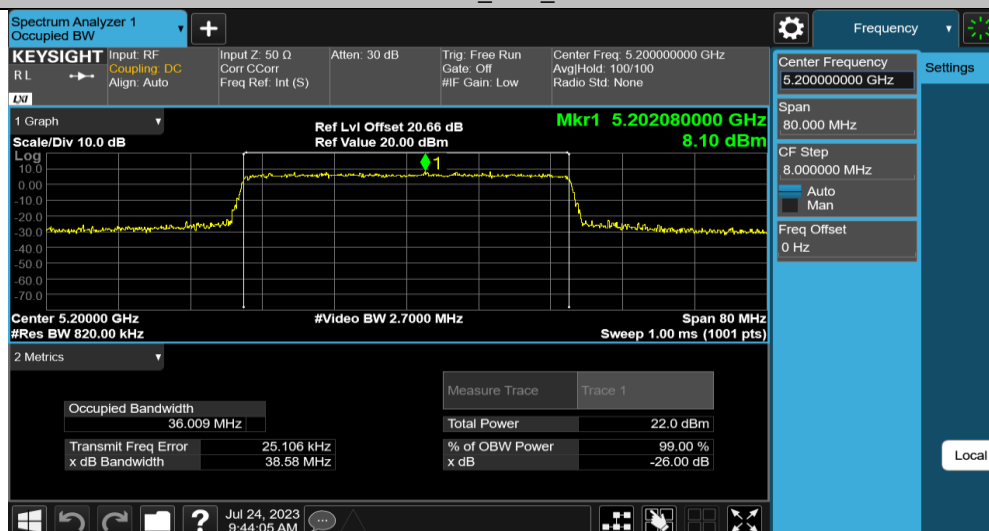
5.2GHz SDR, 40MHz BW

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
40MHz	Ant0	5170	36.062	5151.9737	5188.0357	---	PASS
		5200	36.009	5182.0206	5218.0296	---	PASS
		5230	35.976	5212.0298	5248.0058	---	PASS

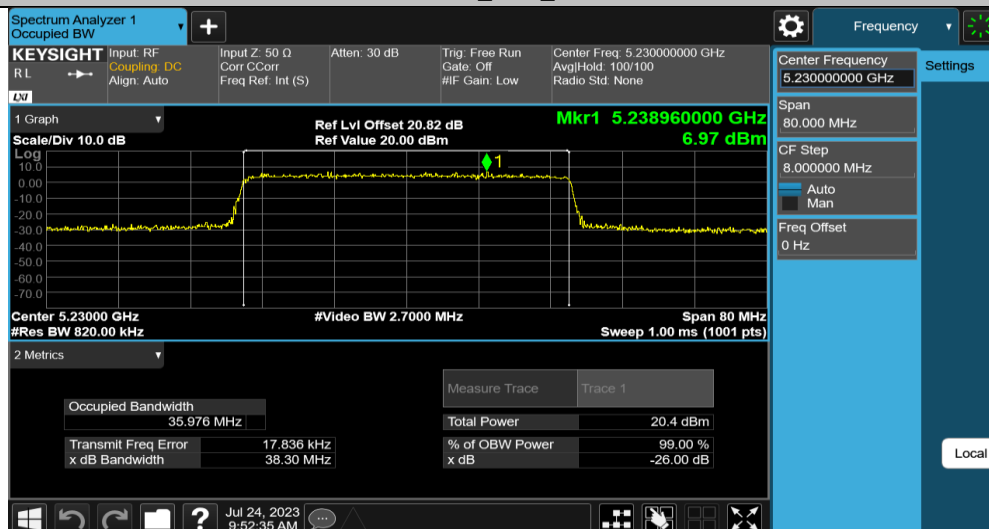
40MHz_Ant0_5170



40MHz_Ant0_5200



40MHz_Ant0_5230



Appendix A.5: Test Results of Radiated Spurious Emissions

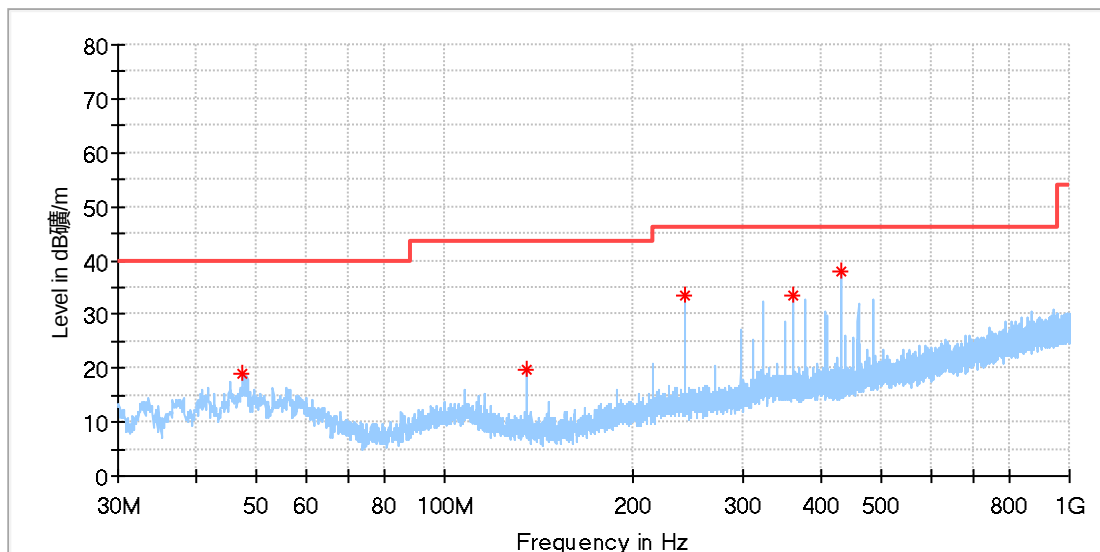
Note:

- 1) This testing was carried out on different modulations, but only the worst case was presented in this report.
- 2) Testing was carried out within frequency range 9kHz to the tenth harmonics. The measurement results below 30MHz and 18GHz - 26.5GHz were greater than 20dB below the limit, so only the radiated spurious emissions from 30MHz to 18GHz were reported.

30MHz - 1GHz (Worst case)

EUT Information

EUT Name:	DJI Mini 4 Pro
Model:	MT4MFVD
Test Mode:	SDR 5.2G_10M_5201MHz
Order No/Sample No:	168427672/A003481038-014
Test Voltage:	Battery
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

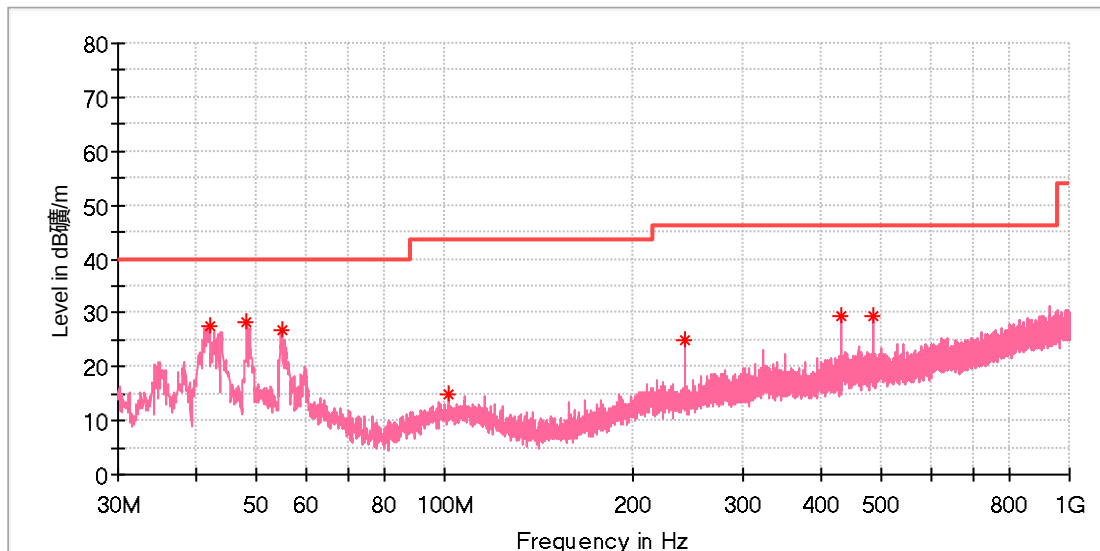
Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
47.557000	18.95	40.00	21.05	100.0	H	257.0	-18.4
135.002500	19.72	43.50	23.78	100.0	H	295.0	-22.1
243.012000	33.55	46.00	12.45	100.0	H	187.0	-17.7
359.994000	33.46	46.00	12.54	100.0	H	19.0	-14.6
432.016500	37.90	46.00	8.10	100.0	H	317.0	-13.3

Final Result

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
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EUT Information

EUT Name:	DJI Mini 4 Pro
Model:	MT4MFVD
Test Mode:	SDR 5.2G_10M_5201MHz
Order No/Sample No:	168427672/A003481038-014
Test Voltage:	Battery
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
41.979500	27.56	40.00	12.44	100.0	V	24.0	-19.6
48.284500	28.30	40.00	11.70	100.0	V	32.0	-18.4
54.880500	26.81	40.00	13.19	100.0	V	233.0	-18.4
101.246500	14.74	43.50	28.76	100.0	V	190.0	-18.9
243.012000	24.96	46.00	21.04	100.0	V	285.0	-17.7
432.016500	29.39	46.00	16.61	100.0	V	218.0	-13.3
485.997000	29.49	46.00	16.51	100.0	V	356.0	-12.0

Final Result

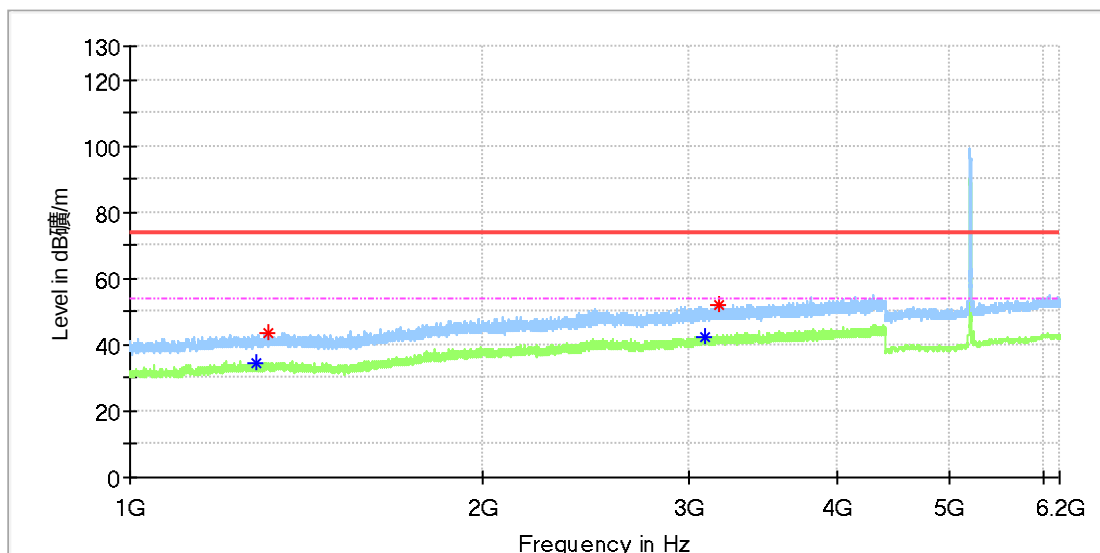
Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

1GHz - 18GHz

Note: The highest waveform in the figure is 5.2GHz SDR Fundamental.
MIMO mode (Worst case_ANT0+ANT3)

EUT Information

EUT Name:	DJI Mini 4 Pro
Model:	MT4MFVD
Test Mode:	SDR 5.2G_10M_5201MHz
Order No/Sample No:	168427672/A003481038-014
Test Voltage:	Battery
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

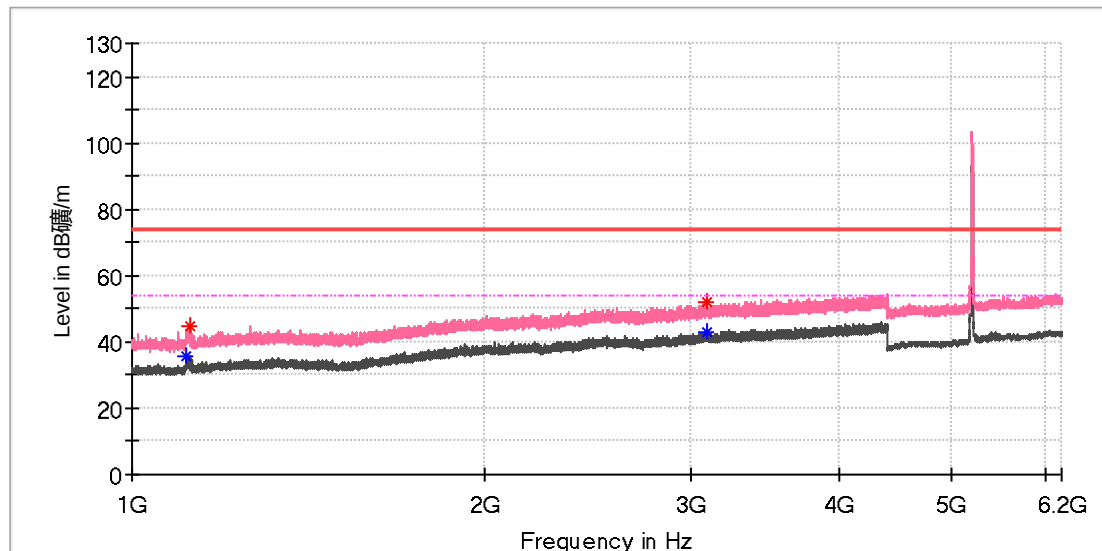
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1278.630000	---	34.74	54.00	19.26	150.0	H	2.0	1.9
1310.420000	43.73	---	74.00	30.27	150.0	H	292.0	2.0
3096.440000	---	42.33	54.00	11.67	150.0	H	29.0	8.7
3177.190000	51.91	---	74.00	22.09	150.0	H	170.0	8.6

Final_Result

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

EUT Information

EUT Name: DJI Mini 4 Pro
Model: MT4MFVD
Test Mode: SDR 5.2G_10M_5201MHz
Order No/Sample No: 168427672/A003481038-014
Test Voltage: Battery
Remark: Temp 22 Humi:55%
Test Standard: FCC 15.407
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

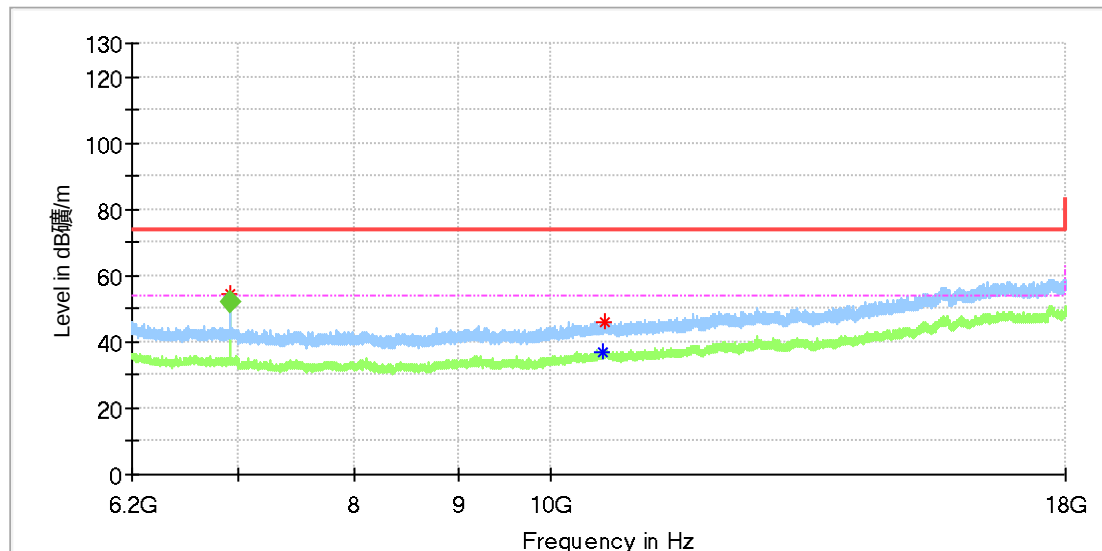
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1110.670000	---	35.77	54.00	18.23	150.0	V	289.0	0.0
1121.380000	44.75	---	74.00	29.25	150.0	V	289.0	0.2
3089.470000	51.94	---	74.00	22.06	150.0	V	7.0	8.7
3095.080000	---	42.75	54.00	11.25	150.0	V	270.0	8.7

Final_Result

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

EUT Information

EUT Name: DJI Mini 4 Pro
Model: MT4MFVD
Test Mode: SDR 5.2G_10M_5201MHz
Order No/Sample No: 168427672/A003481038-014
Test Voltage: Battery
Remark: Temp 22 Humi:55%
Test Standard: FCC 15.407
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
6934.550000	54.69	---	74.00	19.31	150.0	H	93.0	8.6
10620.575000	---	37.03	54.00	16.97	150.0	H	8.0	12.0
10633.850000	46.09	---	74.00	27.91	150.0	H	45.0	12.0

Final Result

Frequency (MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
6934.638750	51.88	54.00	2.12	155.0	H	88.0	8.6