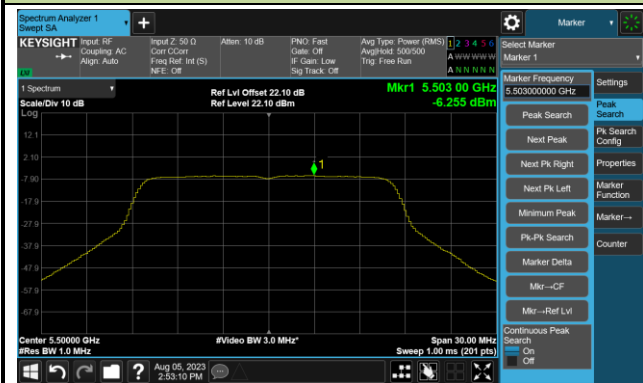
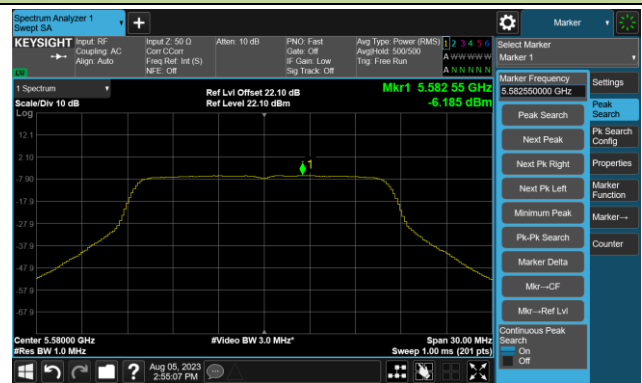


Channel 100 (5500MHz)



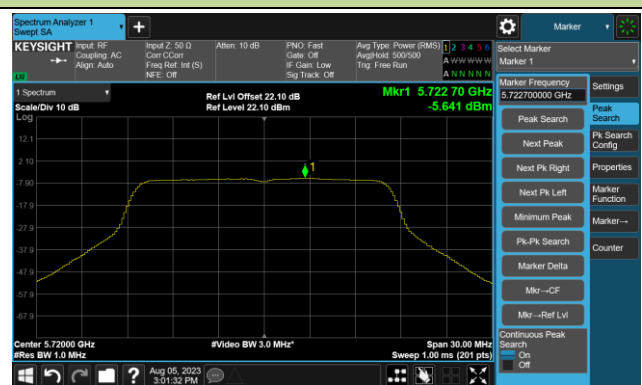
Channel 116 (5580MHz)



Channel 140 (5700MHz)



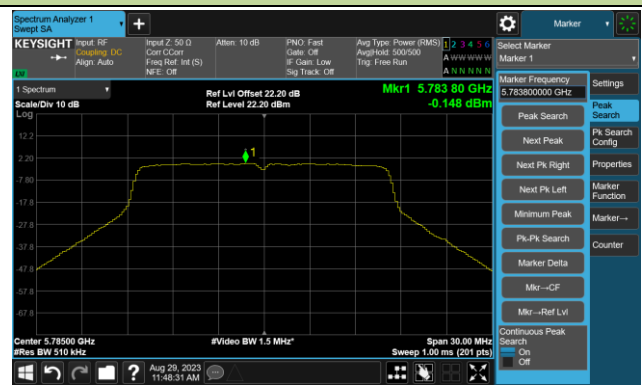
Channel 144(5720MHz)



Channel 149 (5745MHz)



Channel 157 (5785MHz)



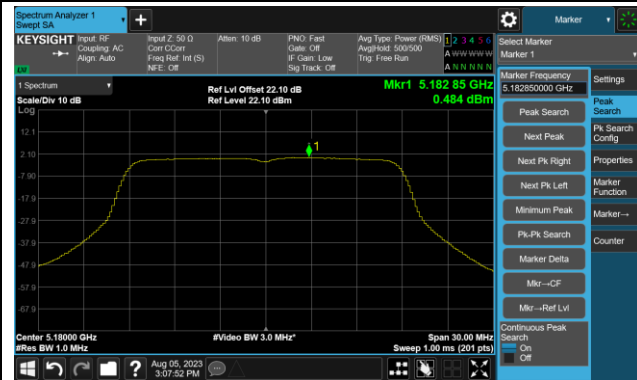
802.11a Power Spectral Density- Ant 1

Channel 165 (5825MHz)

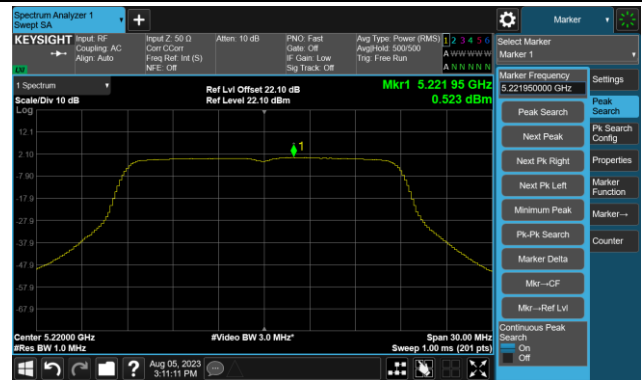


802.11ac-VHT20 Power Spectral Density- Ant 1

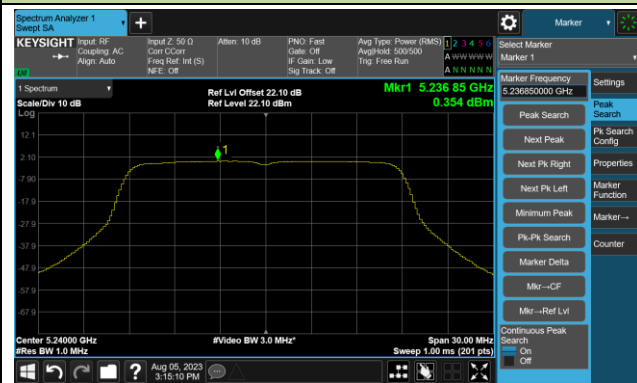
Channel 36 (5180MHz)



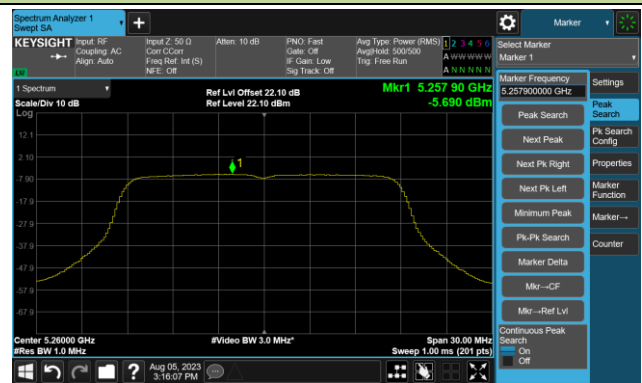
Channel 44 (5220MHz)



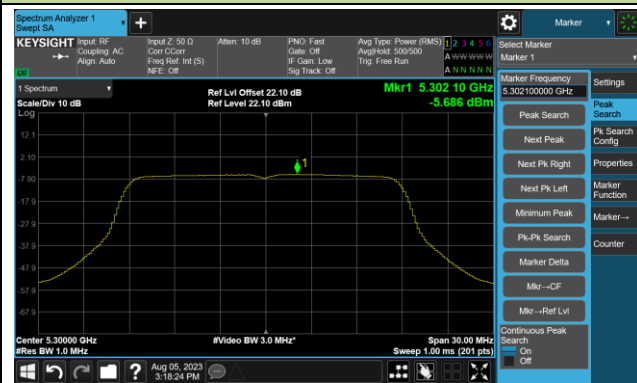
Channel 48 (5240MHz)



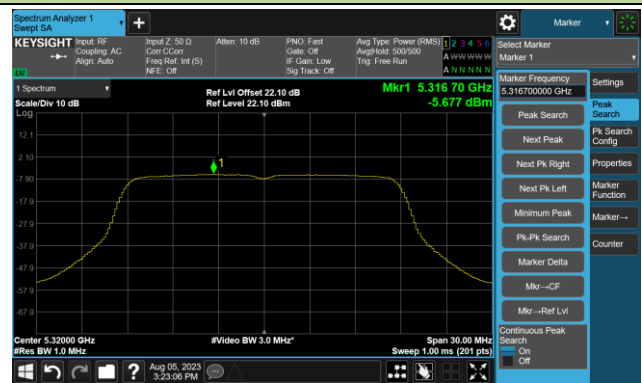
Channel 52 (5260MHz)



Channel 60 (5300MHz)



Channel 64 (5320MHz)

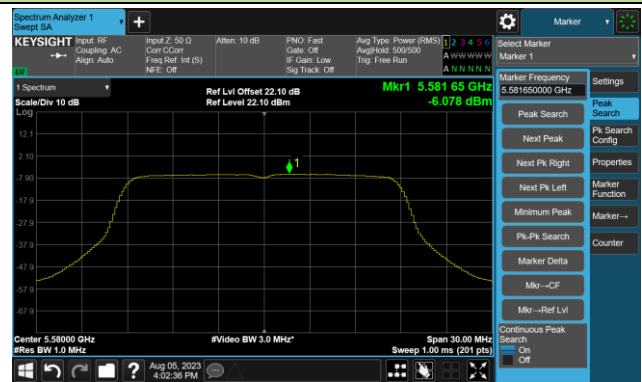


802.11ac-VHT20 Power Spectral Density- Ant 1

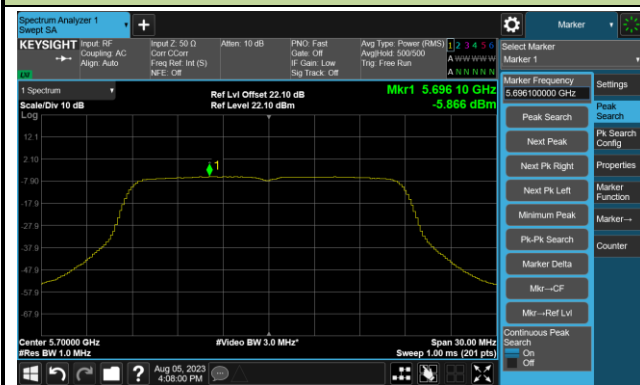
Channel 100 (5500MHz)



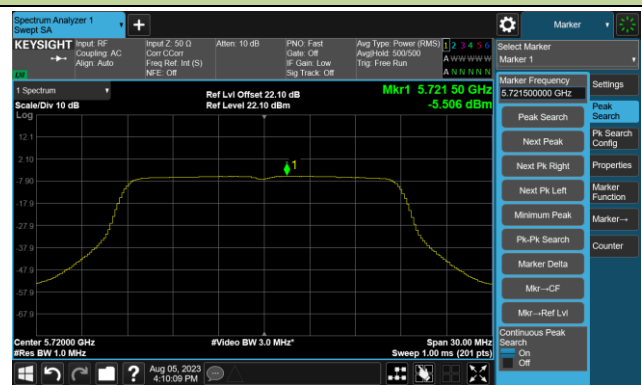
Channel 116 (5580MHz)



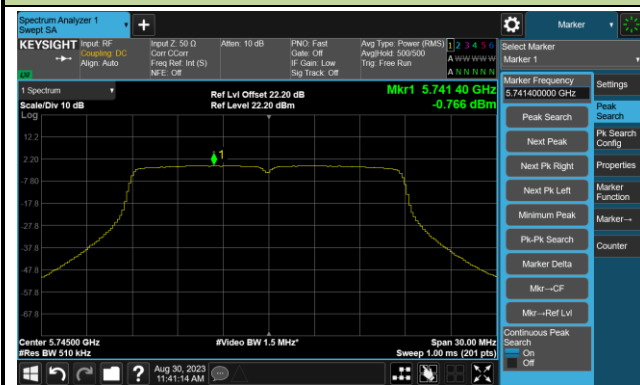
Channel 140 (5700MHz)



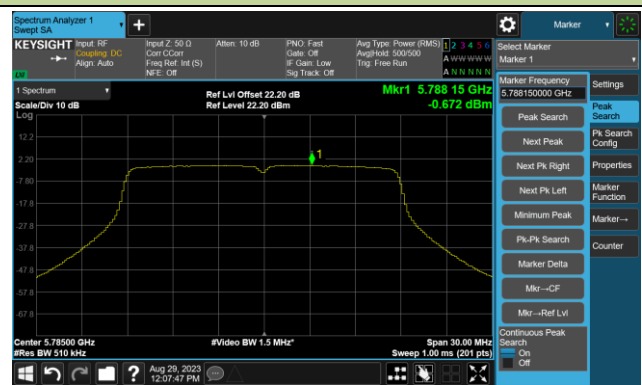
Channel 144(5720MHz)



Channel 149 (5745MHz)

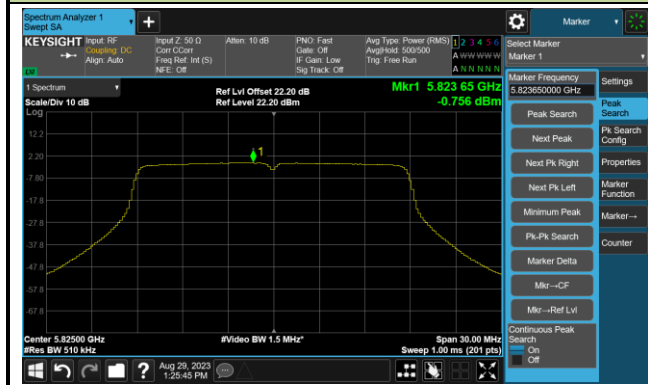


Channel 157 (5785MHz)



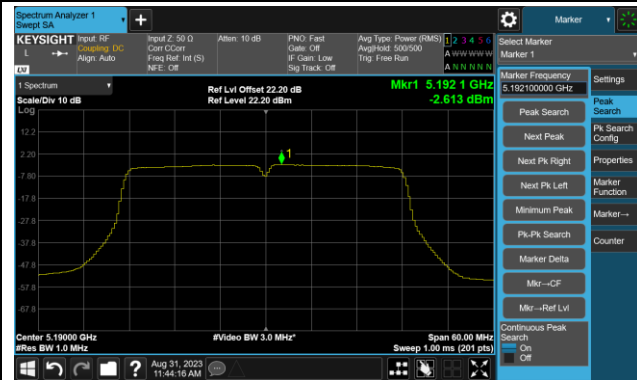
802.11ac-VHT20 Power Spectral Density- Ant 1

Channel 165 (5825MHz)



802.11ac-VHT40 Power Spectral Density- Ant 1

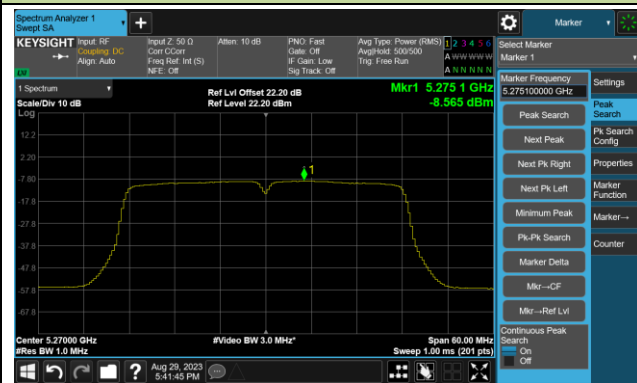
Channel 38 (5190MHz)



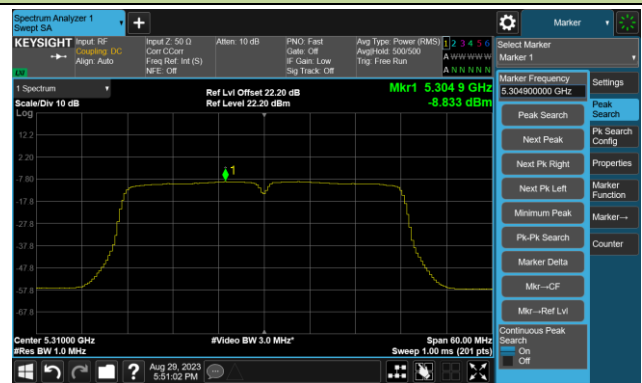
Channel 46 (5230MHz)



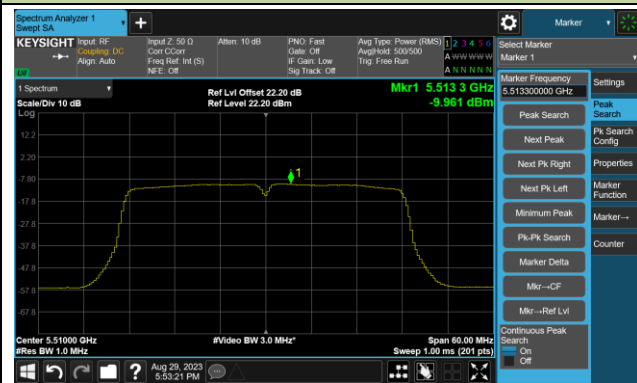
Channel 54 (5270MHz)



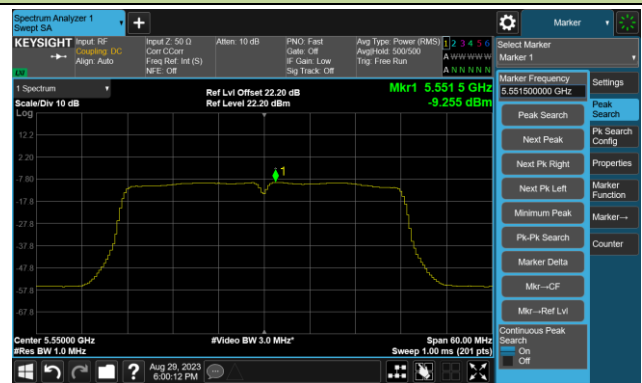
Channel 62 (5310MHz)



Channel 102 (5510MHz)

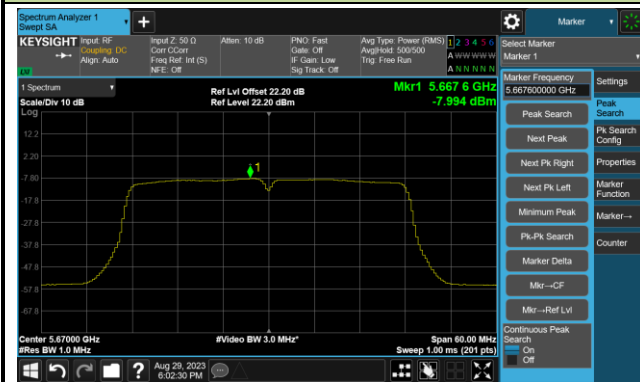


Channel 110 (5550MHz)

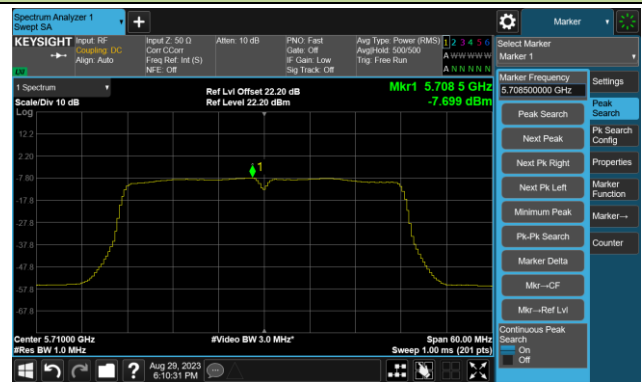


802.11ac-VHT40 Power Spectral Density- Ant 1

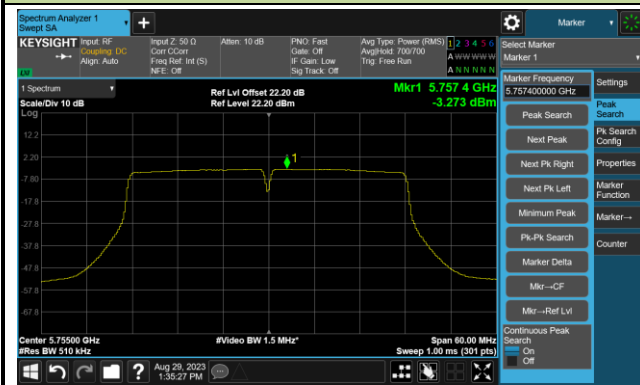
Channel 134 (5670MHz)



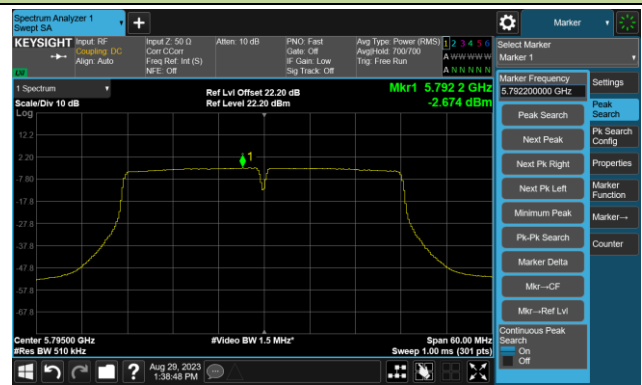
Channel 142(5710MHz)



Channel 151 (5755MHz)

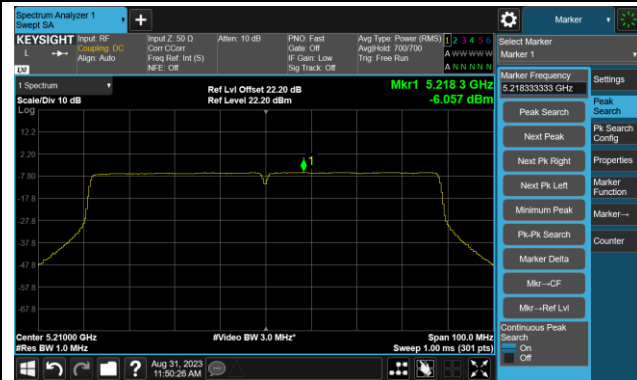


Channel 159 (5795MHz)

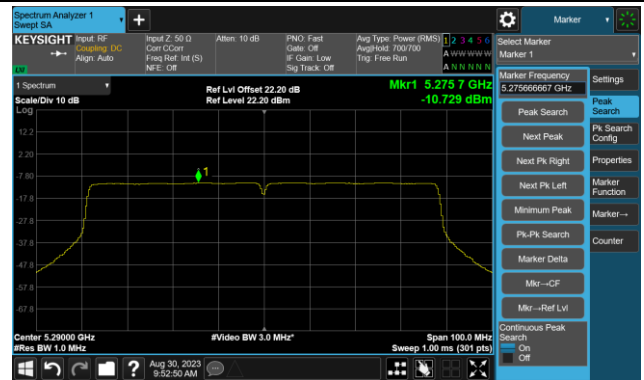


802.11ac-VHT80 Power Spectral Density- Ant 1

Channel 42 (5210MHz)



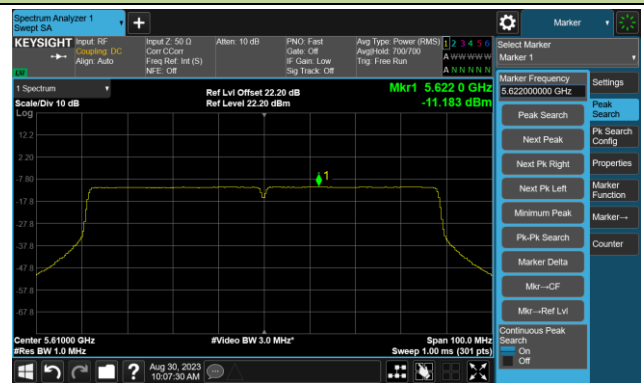
Channel 58 (5290MHz)



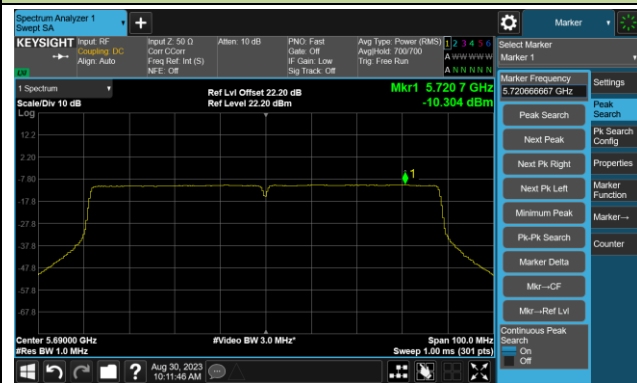
Channel 106 (5530MHz)



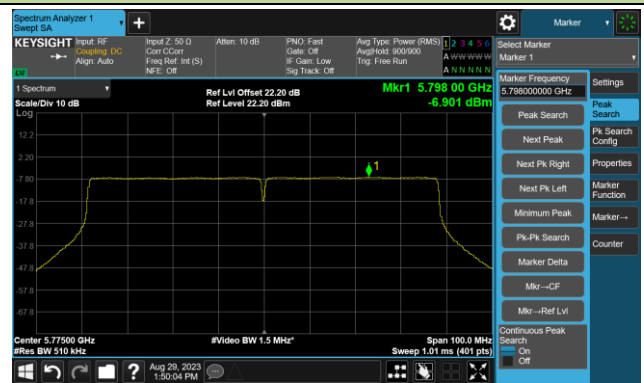
Channel 122 (5610MHz)



Channel 138 (5690MHz)

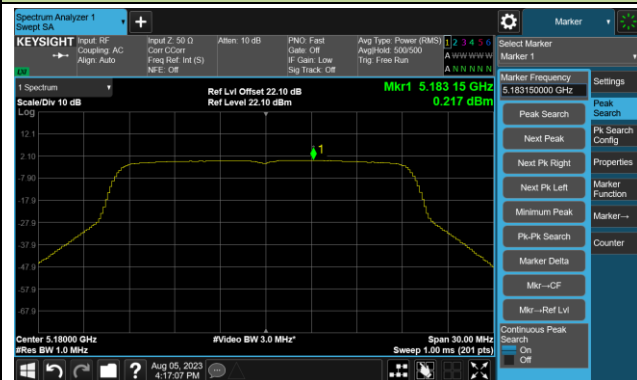


Channel 155 (5775MHz)



802.11ax-HE20 Power Spectral Density- Ant 1

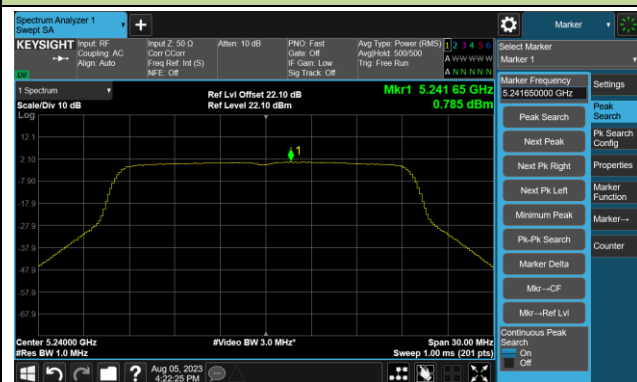
Channel 36 (5180MHz)



Channel 44 (5220MHz)



Channel 48 (5240MHz)



Channel 52 (5260MHz)



Channel 60 (5300MHz)



Channel 64 (5320MHz)



802.11ax-HE20 Power Spectral Density- Ant 1

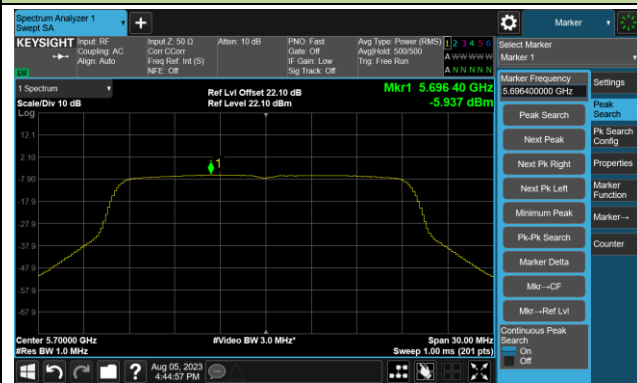
Channel 100 (5500MHz)



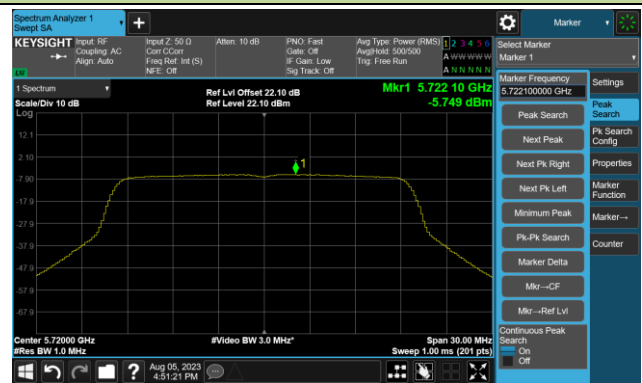
Channel 116 (5580MHz)



Channel 140 (5700MHz)



Channel 144(5720MHz)



Channel 149 (5745MHz)



Channel 157 (5785MHz)



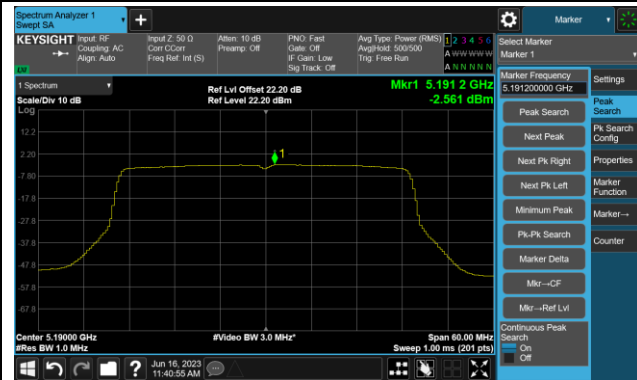
802.11ax-HE20 Power Spectral Density- Ant 1

Channel 165 (5825MHz)

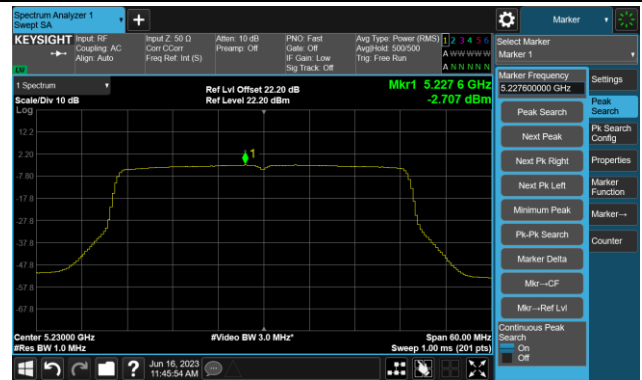


802.11ax-HE40 Power Spectral Density- Ant 1

Channel 38 (5190MHz)



Channel 46 (5230MHz)



Channel 54 (5270MHz)



Channel 62 (5310MHz)



Channel 102 (5510MHz)



Channel 110 (5550MHz)



802.11ax-HE40 Power Spectral Density- Ant 1

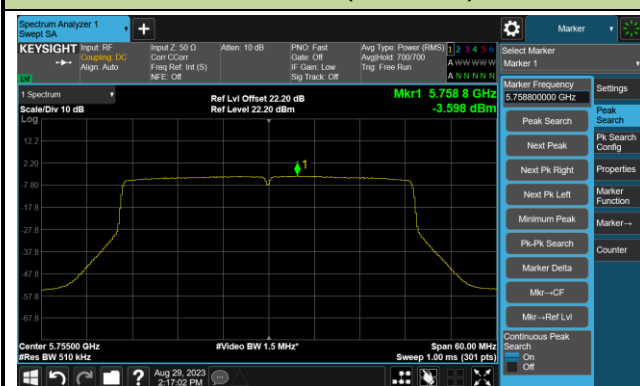
Channel 134 (5670MHz)



Channel 142(5710MHz)



Channel 151 (5755MHz)

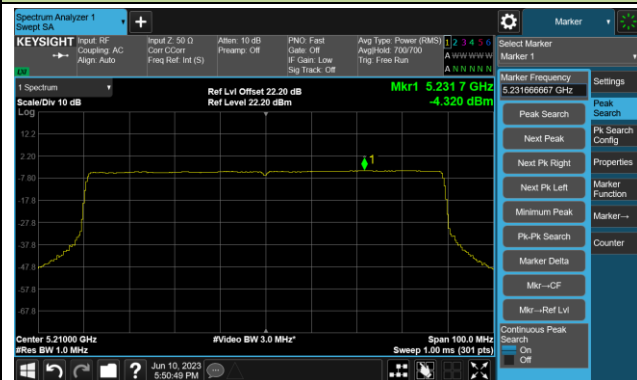


Channel 159 (5795MHz)

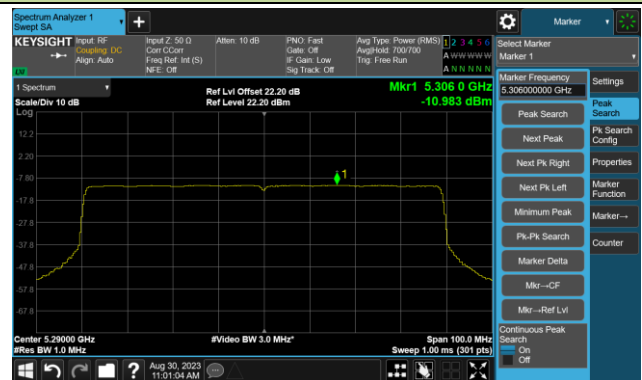


802.11ax-HE80 Power Spectral Density- Ant 1

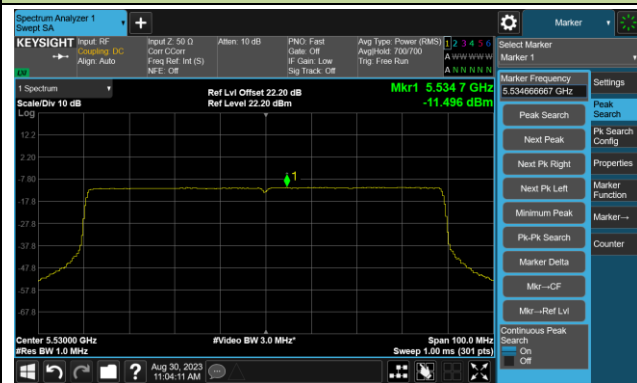
Channel 42 (5210MHz)



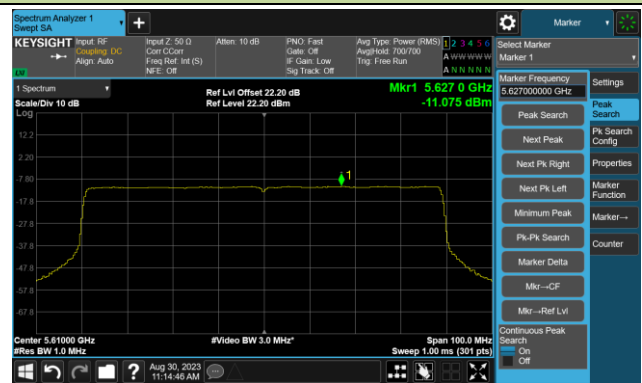
Channel 58 (5290MHz)



Channel 106 (5530MHz)



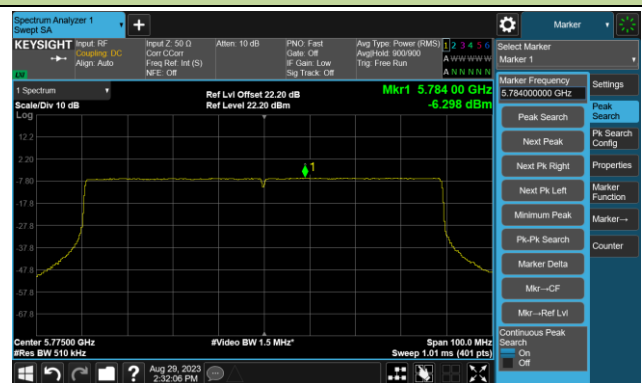
Channel 122 (5610MHz)



Channel 138 (5690MHz)



Channel 155 (5775MHz)



Test Site	SIP-TR1	Test Engineer	Alisa Deng
Test Date	2023-06-07~2023-08-28	Radio Specification	Radio 1
Model No.	AX52, AX52e		
Test Item	Power Spectral Density (UNII-Band 1 & UNII-2a & UNII-2c)		

Test Mode	Data Rate/ MCS	Channel No.	Freq. (MHz)	AVPSD (dBm/ MHz)		Duty Cycle (%)	Total PSD (dBm/ MHz)	PSD Limit (dBm/MHz)
				Ant 0	Ant 1			
11a	6Mbps	36	5180	0.113	0.058	91.84	3.47	4.00
11a	6Mbps	44	5220	0.379	0.439	91.84	3.79	4.00
11a	6Mbps	48	5240	-0.185	0.221	91.84	3.40	4.00
11a	6Mbps	52	5260	-6.312	-5.738	91.84	-2.64	-2.00
11a	6Mbps	60	5300	-6.108	-5.376	91.84	-2.35	-2.00
11a	6Mbps	64	5320	-5.922	-5.259	91.84	-2.20	-2.00
11a	6Mbps	100	5500	-5.778	-5.547	91.84	-2.28	-2.00
11a	6Mbps	116	5580	-5.809	-5.299	91.84	-2.17	-2.00
11a	6Mbps	140	5700	-5.404	-5.715	91.84	-2.18	-2.00
11a	6Mbps	144	5720	-5.169	-6.614	91.84	-2.45	-2.00
11ac-VHT20	MCS0	36	5180	0.021	0.373	93.45	3.51	4.00
11ac-VHT20	MCS0	44	5220	0.026	0.343	93.45	3.49	4.00
11ac-VHT20	MCS0	48	5240	0.345	0.566	93.45	3.76	4.00
11ac-VHT20	MCS0	52	5260	-6.216	-5.701	93.45	-2.65	-2.00
11ac-VHT20	MCS0	60	5300	-5.768	-5.220	93.45	-2.18	-2.00
11ac-VHT20	MCS0	64	5320	-5.701	-5.368	93.45	-2.23	-2.00
11ac-VHT20	MCS0	100	5500	-5.722	-5.210	93.45	-2.15	-2.00
11ac-VHT20	MCS0	116	5580	-5.749	-5.262	93.45	-2.19	-2.00
11ac-VHT20	MCS0	140	5700	-5.511	-5.644	93.45	-2.27	-2.00
11ac-VHT20	MCS0	144	5720	-5.591	-5.639	93.45	-2.31	-2.00
11ac-VHT40	MCS3	38	5190	-2.403	-2.724	92.11	0.81	4.00
11ac-VHT40	MCS3	46	5230	-2.242	-2.961	92.11	0.78	4.00
11ac-VHT40	MCS3	54	5270	-7.587	-7.798	92.11	-4.32	-2.00
11ac-VHT40	MCS3	62	5310	-8.880	-7.925	92.11	-5.01	-2.00
11ac-VHT40	MCS3	102	5510	-9.123	-8.041	92.11	-5.18	-2.00
11ac-VHT40	MCS3	110	5550	-8.526	-7.162	92.11	-4.42	-2.00
11ac-VHT40	MCS3	134	5670	-7.785	-7.241	92.11	-4.14	-2.00
11ac-VHT40	MCS3	142	5710	-6.163	-6.148	92.11	-2.79	-2.00

11ac-VHT80	MCS3	42	5210	-4.241	-4.747	91.92	-1.11	4.00
11ac-VHT80	MCS3	58	5290	-11.183	-10.602	91.92	-7.51	-2.00
11ac-VHT80	MCS3	106	5530	-10.125	-10.125	91.92	-6.75	-2.00
11ac-VHT80	MCS3	122	5610	-10.655	-9.700	91.92	-6.78	-2.00
11ac-VHT80	MCS3	138	5690	-9.613	-9.092	91.92	-5.97	-2.00
11ax-HE20	MCS1	36	5180	0.387	0.787	95.78	3.79	4.00
11ax-HE20	MCS1	44	5220	0.414	0.739	95.78	3.78	4.00
11ax-HE20	MCS1	48	5240	0.641	0.698	95.78	3.87	4.00
11ax-HE20	MCS1	52	5260	-6.013	-5.486	95.78	-2.54	-2.00
11ax-HE20	MCS1	60	5300	-5.616	-5.286	95.78	-2.25	-2.00
11ax-HE20	MCS1	64	5320	-5.590	-5.036	95.78	-2.11	-2.00
11ax-HE20	MCS1	100	5500	-5.513	-5.186	95.78	-2.15	-2.00
11ax-HE20	MCS1	116	5580	-5.599	-5.319	95.78	-2.26	-2.00
11ax-HE20	MCS1	140	5700	-5.401	-5.303	95.78	-2.15	-2.00
11ax-HE20	MCS1	144	5720	-5.210	-5.891	95.78	-2.34	-2.00
11ax-HE40	MCS6	38	5190	-2.421	-2.950	93.61	0.62	4.00
11ax-HE40	MCS6	46	5230	-2.237	-3.080	93.61	0.66	4.00
11ax-HE40	MCS6	54	5270	-8.965	-8.689	93.61	-5.53	-2.00
11ax-HE40	MCS6	62	5310	-9.462	-8.644	93.61	-5.74	-2.00
11ax-HE40	MCS6	102	5510	-8.699	-7.733	93.61	-4.89	-2.00
11ax-HE40	MCS6	110	5550	-8.663	-7.218	93.61	-4.58	-2.00
11ax-HE40	MCS6	134	5670	-7.540	-6.787	93.61	-3.85	-2.00
11ax-HE40	MCS6	142	5710	-6.925	-6.730	93.61	-3.53	-2.00
11ax-HE80	MCS6	42	5210	-4.702	-5.353	91.94	-1.64	4.00
11ax-HE80	MCS6	58	5290	-11.977	-11.214	91.94	-8.20	-2.00
11ax-HE80	MCS6	106	5530	-11.862	-10.352	91.94	-7.67	-2.00
11ax-HE80	MCS6	122	5610	-10.560	-9.724	91.94	-6.75	-2.00
11ax-HE80	MCS6	138	5690	-9.903	-9.772	91.94	-6.46	-2.00

Note 1: When EUT duty cycle < 98%, the total PSD (dBm/MHz) = $10 \cdot \log \{10^{(\text{Ant 0 AVGPSD}/10)} + 10^{(\text{Ant 1 AVGPSD}/10)}\} + 10 \cdot \log (1/\text{Duty cycle})$.

When EUT duty cycle $\geq 98\%$, the total PSD (dBm/MHz) = $10 \cdot \log \{10^{(\text{Ant 0 AVGPSD}/10)} + 10^{(\text{Ant 1 AVGPSD}/10)}\}$.

Note 2: For 5150-5250MHz, PSD Limit (dBm/500kHz) = 17 - (19.0 - 6) = 4.00dBm/MHz.

For 5250-5350MHz&5470-5725MHz, PSD Limit (dBm/500kHz) = 11 - (19.0 - 6) = -2.00dBm/MHz.

Test Site	SIP-TR1	Test Engineer	Alisa Deng
Test Date	2023-08-25	Radio Specification	Radio 1
Model No.	AX52, AX52e		
Test Item	Power Spectral Density (UNII-Band 3)		

Test Mode	Data Rate/ MCS	Channel No.	Freq. (MHz)	AVPSD (dBm/ 510kHz)		Duty Cycle (%)	Total PSD (dBm/ 510kHz)	PSD Limit (dBm/ 500kHz)
				Ant 0	Ant 1			
11a	6Mbps	149	5745	-0.447	-1.343	91.84	2.51	≤ 17.00
11a	6Mbps	157	5785	0.047	-0.711	91.84	3.06	≤ 17.00
11a	6Mbps	165	5825	0.299	0.031	91.84	3.55	≤ 17.00
11ac-VHT20	MCS0	149	5745	-0.713	-1.527	93.45	2.20	≤ 17.00
11ac-VHT20	MCS0	157	5785	-0.885	-1.526	93.45	2.11	≤ 17.00
11ac-VHT20	MCS0	165	5825	-0.462	-0.522	93.45	2.81	≤ 17.00
11ac-VHT40	MCS3	151	5755	-3.191	-3.590	92.11	-0.02	≤ 17.00
11ac-VHT40	MCS3	159	5795	-3.063	-3.160	92.11	0.26	≤ 17.00
11ac-VHT80	MCS3	155	5775	-5.814	-6.029	91.92	-2.54	≤ 17.00
11ax-HE20	MCS1	149	5745	-0.958	-1.483	95.78	1.98	≤ 17.00
11ax-HE20	MCS1	157	5785	-0.524	-0.551	95.78	2.66	≤ 17.00
11ax-HE20	MCS1	165	5825	-0.268	0.271	95.78	3.21	≤ 17.00
11ax-HE40	MCS6	151	5755	-3.352	-3.978	93.61	-0.36	≤ 17.00
11ax-HE40	MCS6	159	5795	-3.122	-3.472	93.61	0.00	≤ 17.00
11ax-HE80	MCS6	155	5775	-6.035	-6.241	91.94	-2.76	≤ 17.00

Note 1:

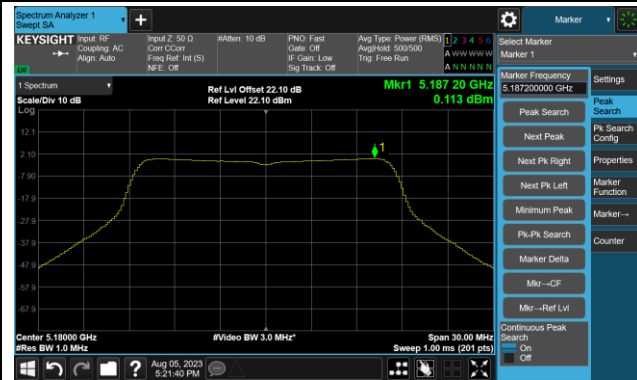
When EUT duty cycle < 98%, the total PSD (dBm/510kHz) = $10 \cdot \log \{10^{(\text{Ant 0 AVGPSD}/10)} + 10^{(\text{Ant 1 AVGPSD}/10)}\}$
+ $10 \cdot \log (1/\text{Duty cycle})$.

When EUT duty cycle ≥ 98%, the total PSD (dBm/510kHz) = $10 \cdot \log \{10^{(\text{Ant 0 AVGPSD}/10)} + 10^{(\text{Ant 1 AVGPSD}/10)}\}$.

Note 2: PSD Limit (dBm/500kHz) = 30 - (19.0 - 6) = 17.00dBm/MHz.

802.11a Power Spectral Density- Ant 0

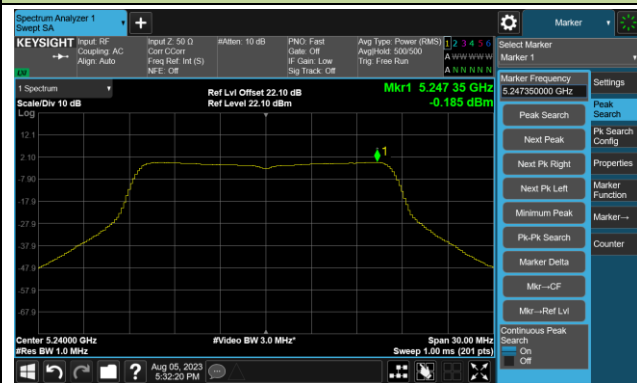
Channel 36 (5180MHz)



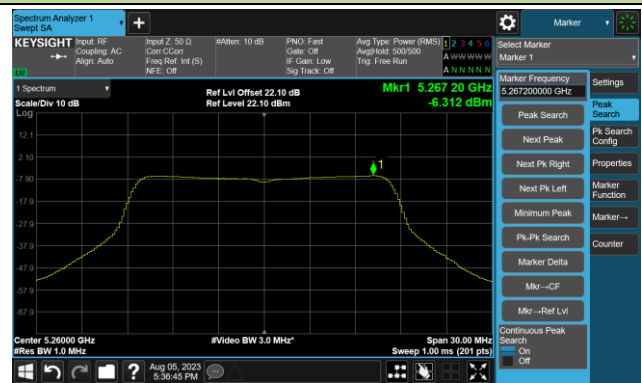
Channel 44 (5220MHz)



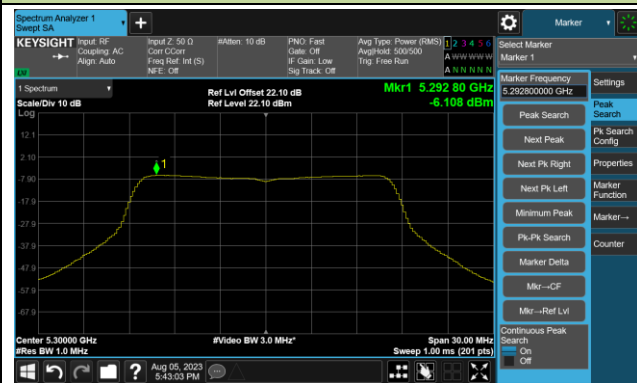
Channel 48 (5240MHz)



Channel 52 (5260MHz)



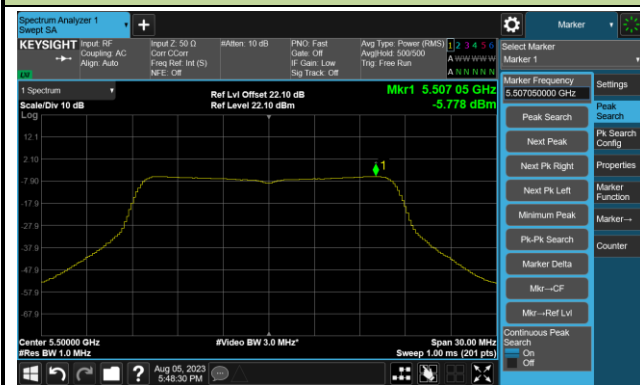
Channel 60 (5300MHz)



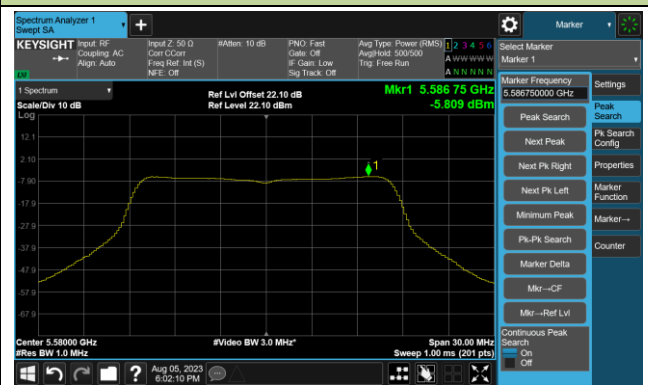
Channel 64 (5320MHz)



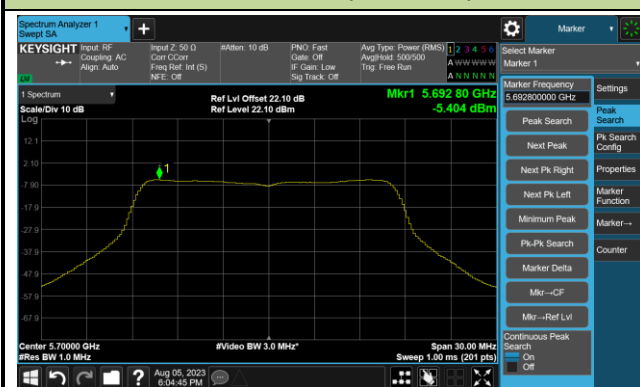
Channel 100 (5500MHz)



Channel 116 (5580MHz)



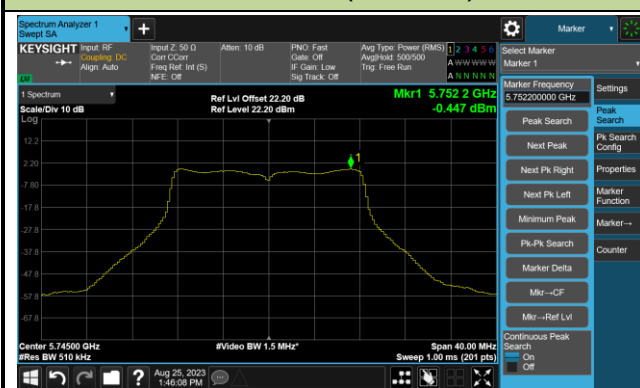
Channel 140 (5700MHz)



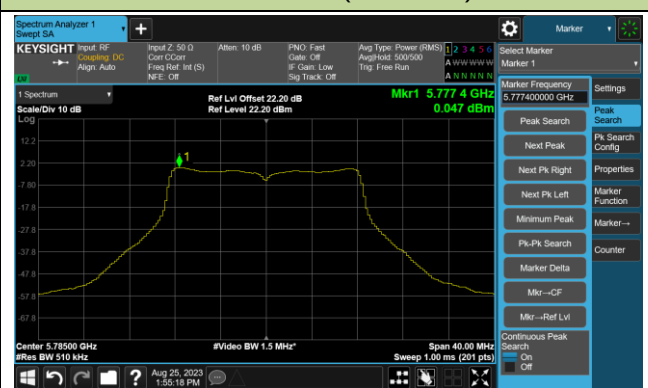
Channel 144(5720MHz)

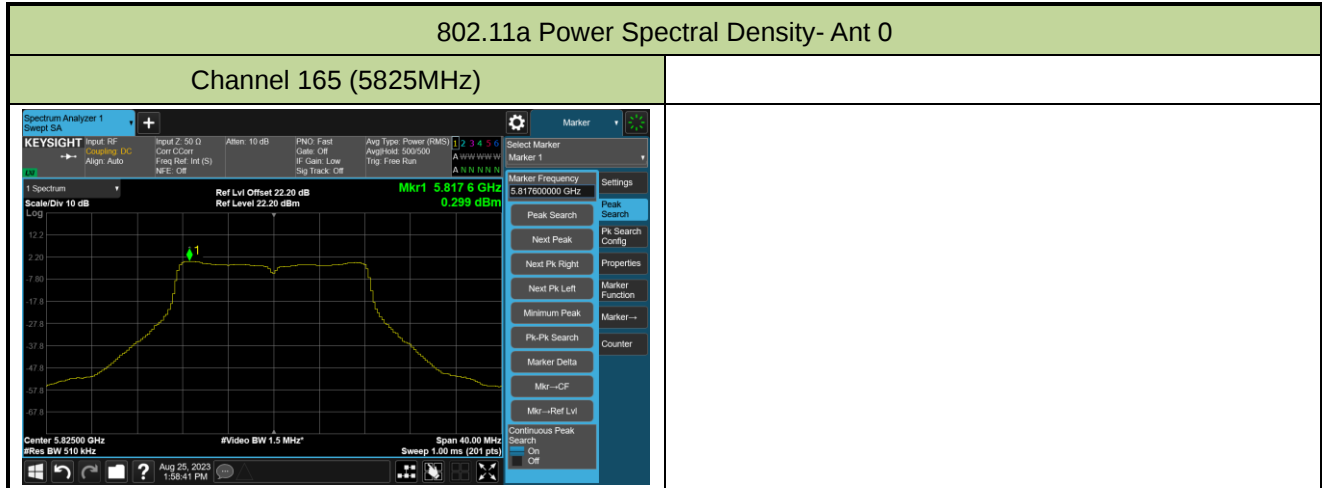


Channel 149 (5745MHz)



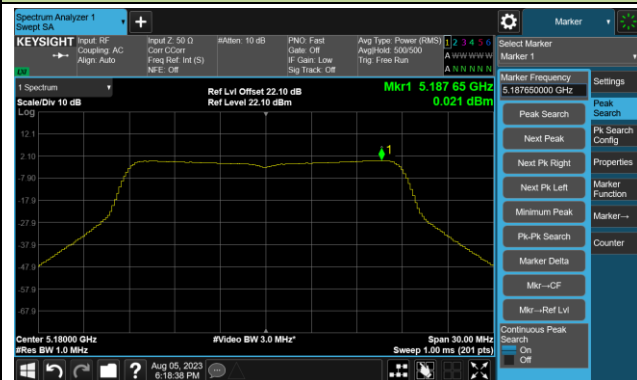
Channel 157 (5785MHz)



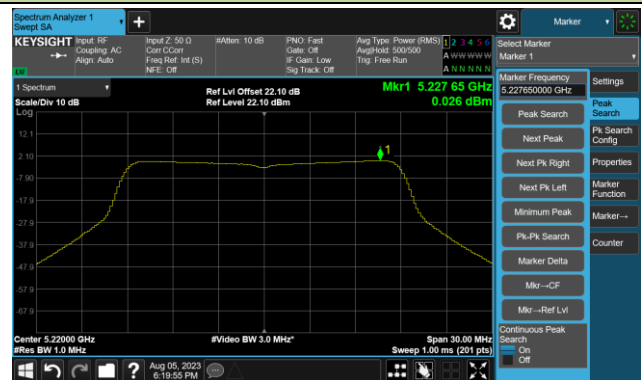


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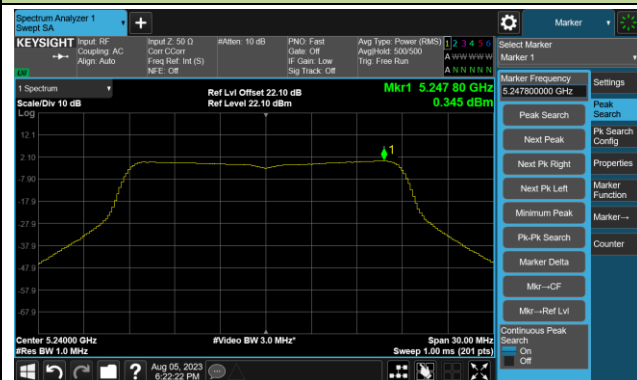
Channel 36 (5180MHz)



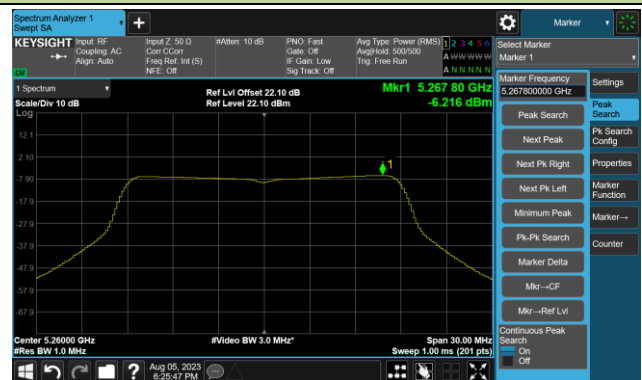
Channel 44 (5220MHz)



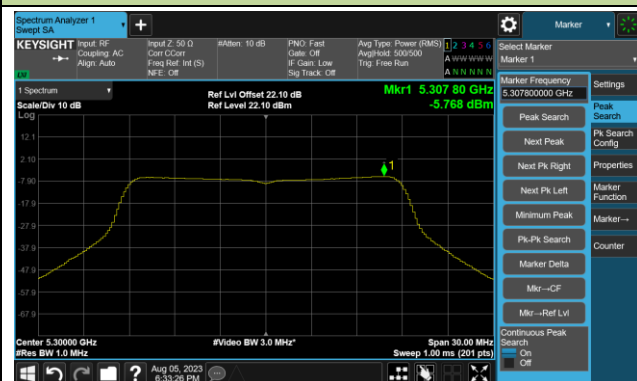
Channel 48 (5240MHz)



Channel 52 (5260MHz)



Channel 60 (5300MHz)



Channel 64 (5320MHz)

