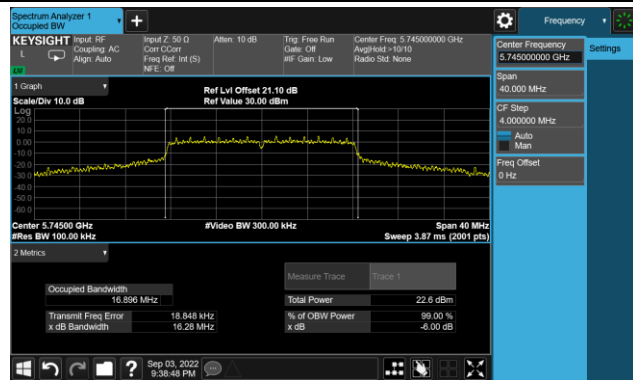
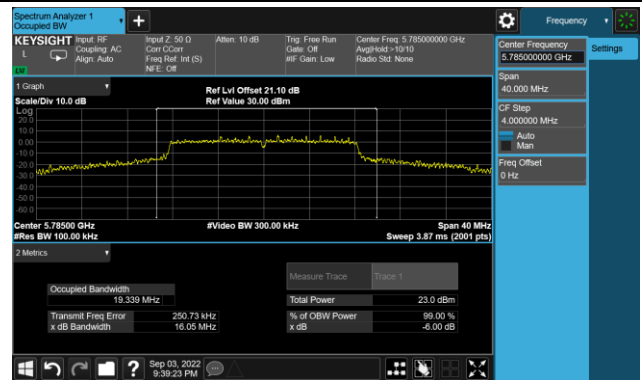


802.11a 6dB Bandwidth

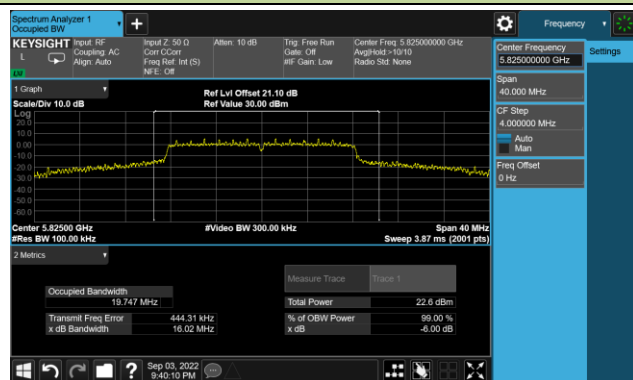
Channel 149 (5745MHz)



Channel 157 (5785MHz)

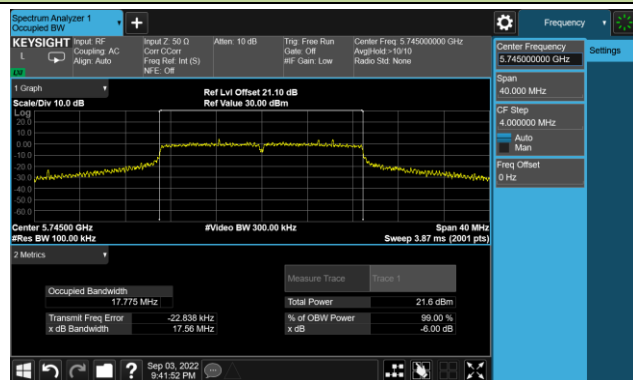


Channel 165 (5825MHz)

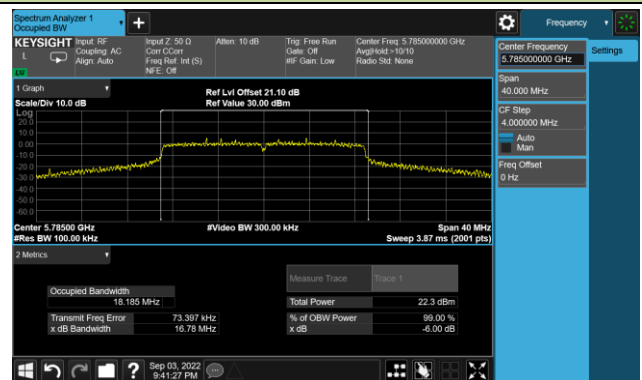


802.11ac-VHT20 6dB Bandwidth

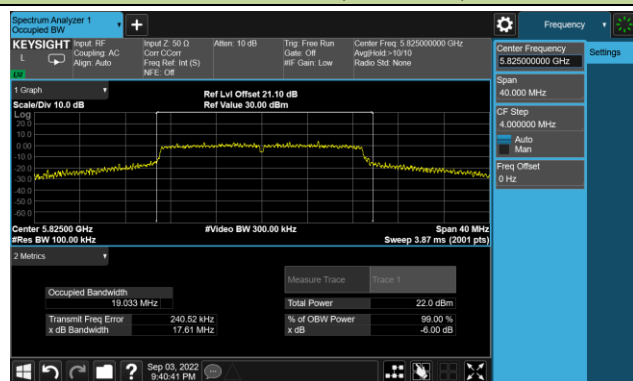
Channel 149 (5745MHz)



Channel 157 (5785MHz)

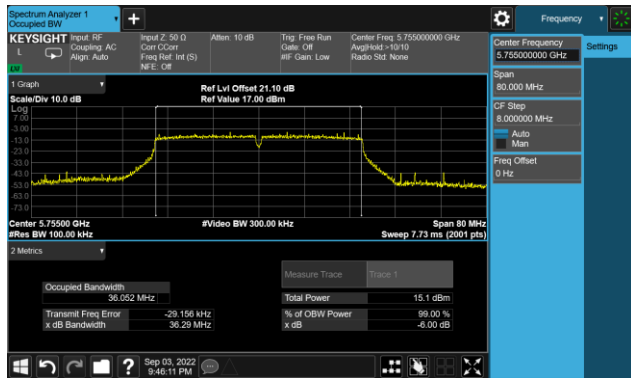


Channel 165 (5825MHz)

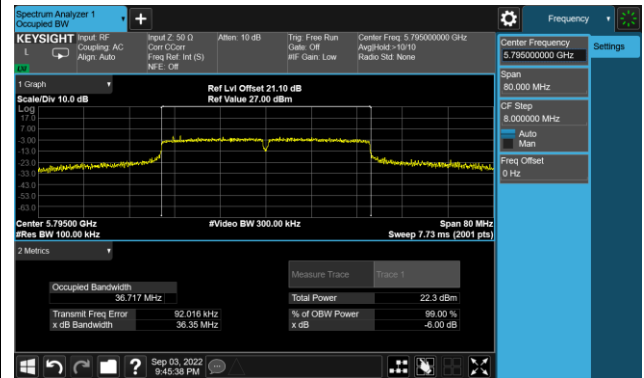


802.11ac-VHT40 6dB Bandwidth

Channel 151 (5755MHz)

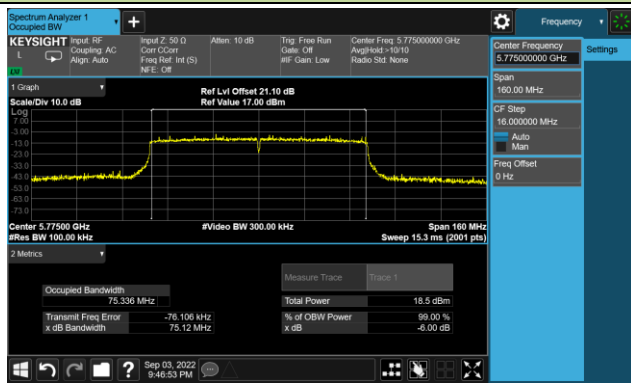


Channel 159 (5795MHz)



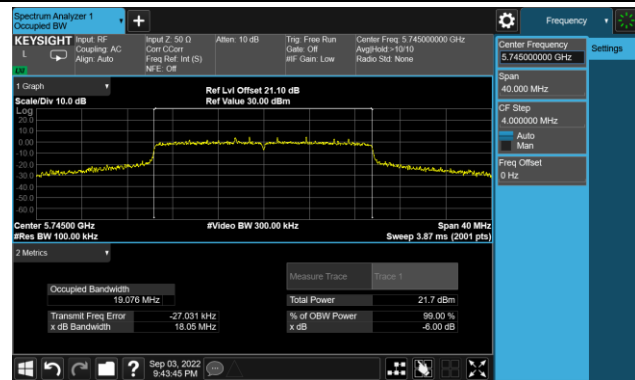
802.11ac-VHT80 6dB Bandwidth

Channel 155 (5775MHz)

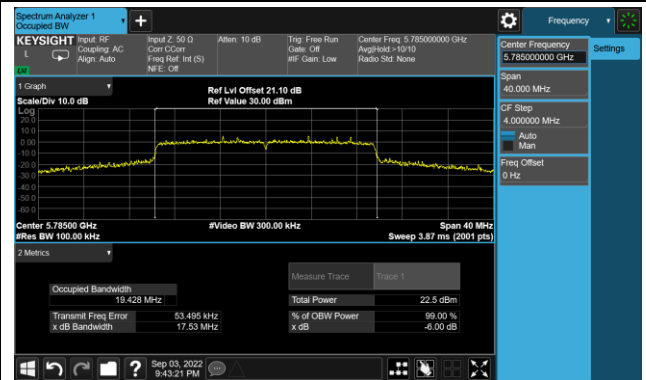


802.11ax-HE20 6dB Bandwidth

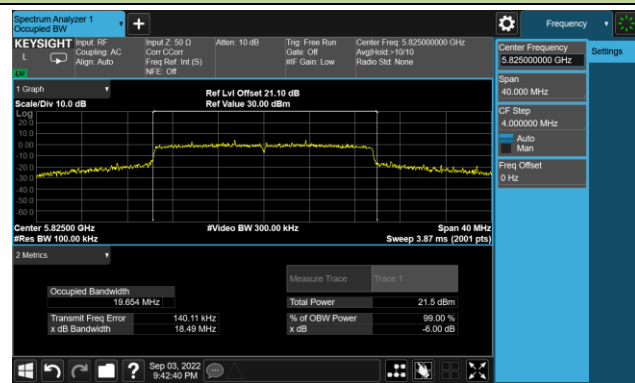
Channel 149 (5745MHz)



Channel 157 (5785MHz)

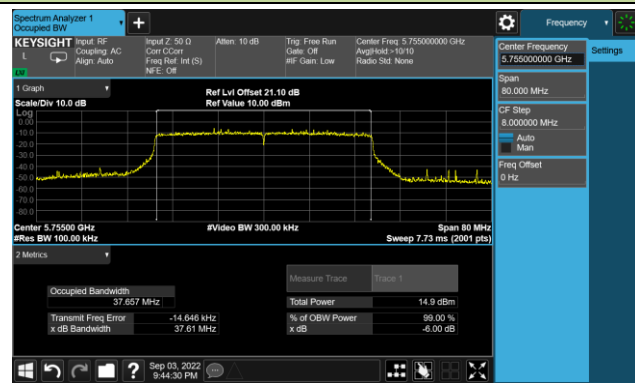


Channel 165 (5825MHz)

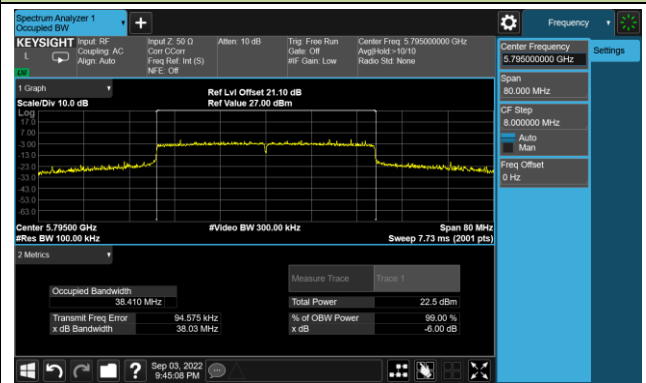


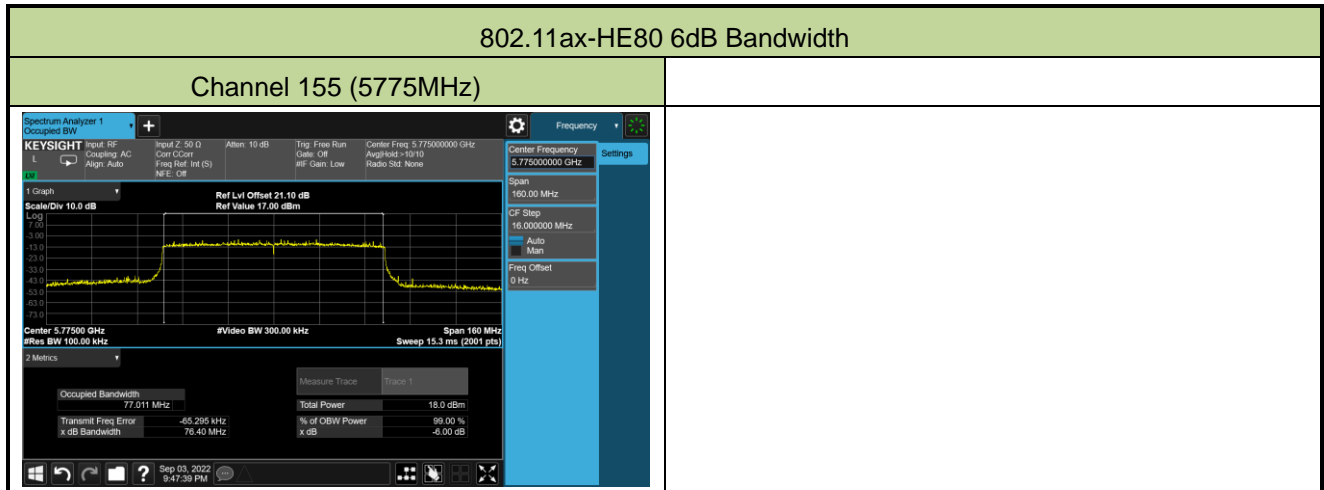
802.11ax-HE40 6dB Bandwidth

Channel 151 (5755MHz)



Channel 159 (5795MHz)





A.4 Output Power Test Result

Test Site	WZ-TR3	Test Engineer	Luis Yang
Test Date	2022-09-05 ~ 2022-11-01		

Test Mode	Data Rate MCS	Channel No.	Freq. (MHz)	Average Power (dBm)		Total Average Power (dBm)	Average Power Limit (dBm)
				Ant 0	Ant 1		
11a	6Mbps	36	5180	19.59	20.52	23.09	≤ 30.00
11a	6Mbps	44	5220	22.53	23.46	26.03	≤ 30.00
11a	6Mbps	48	5240	22.47	23.14	25.83	≤ 30.00
11a	6Mbps	52	5260	15.43	17.04	19.32	≤ 23.98
11a	6Mbps	60	5300	16.13	17.09	19.65	≤ 23.98
11a	6Mbps	64	5320	15.84	16.52	19.20	≤ 23.98
11a	6Mbps	100	5500	15.95	16.06	19.02	≤ 23.98
11a	6Mbps	116	5580	15.19	16.42	18.86	≤ 23.98
11a	6Mbps	140	5700	15.76	16.55	19.18	≤ 23.98
11a	6Mbps	144	5720	16.06	16.43	19.26	≤ 22.82
11a	6Mbps	149	5745	25.57	24.94	28.28	≤ 30.00
11a	6Mbps	157	5785	25.64	25.42	28.54	≤ 30.00
11a	6Mbps	165	5825	25.58	25.17	28.39	≤ 30.00
11ac-VHT20	MCS0	36	5180	19.13	20.12	22.66	≤ 30.00
11ac-VHT20	MCS0	44	5220	22.06	22.83	25.47	≤ 30.00
11ac-VHT20	MCS0	48	5240	22.74	23.61	26.21	≤ 30.00
11ac-VHT20	MCS0	52	5260	16.33	17.93	20.21	≤ 23.98
11ac-VHT20	MCS0	60	5300	16.91	17.86	20.42	≤ 23.98
11ac-VHT20	MCS0	64	5320	16.77	17.33	20.07	≤ 23.98
11ac-VHT20	MCS0	100	5500	16.76	16.73	19.76	≤ 23.98
11ac-VHT20	MCS0	116	5580	16.10	17.20	19.70	≤ 23.98
11ac-VHT20	MCS0	140	5700	16.34	17.23	19.82	≤ 23.98
11ac-VHT20	MCS0	144	5720	16.73	16.97	19.86	≤ 22.88
11ac-VHT20	MCS0	149	5745	25.41	24.90	28.17	≤ 30.00
11ac-VHT20	MCS0	157	5785	25.76	25.52	28.65	≤ 30.00
11ac-VHT20	MCS0	165	5825	25.32	25.13	28.24	≤ 30.00

Test Mode	Data Rate MCS	Channel No.	Freq. (MHz)	Average Power (dBm)		Total Average Power (dBm)	Average Power Limit (dBm)
				Ant 0	Ant 1		
11ac-VHT40	MCS0	38	5190	13.57	14.24	16.93	≤ 30.00
11ac-VHT40	MCS0	46	5230	25.33	26.16	28.78	≤ 30.00
11ac-VHT40	MCS0	54	5270	19.51	20.15	22.85	≤ 23.98
11ac-VHT40	MCS0	62	5310	15.25	16.36	18.85	≤ 23.98
11ac-VHT40	MCS0	102	5510	15.58	15.66	18.63	≤ 23.98
11ac-VHT40	MCS0	110	5550	19.37	19.73	22.56	≤ 23.98
11ac-VHT40	MCS0	134	5670	17.93	19.42	21.75	≤ 23.98
11ac-VHT40	MCS0	142	5710	18.52	19.28	21.93	≤ 23.98
11ac-VHT40	MCS0	151	5755	17.09	18.01	20.58	≤ 30.00
11ac-VHT40	MCS0	159	5795	25.66	24.33	28.06	≤ 30.00
11ac-VHT80	MCS0	42	5210	11.10	11.44	14.28	≤ 30.00
11ac-VHT80	MCS0	58	5290	14.65	15.91	18.34	≤ 23.98
11ac-VHT80	MCS0	106	5530	14.95	15.34	18.16	≤ 23.98
11ac-VHT80	MCS0	122	5610	20.13	20.93	23.56	≤ 23.98
11ac-VHT80	MCS0	138	5690	20.12	21.14	23.67	≤ 23.98
11ac-VHT80	MCS0	155	5775	20.73	21.82	24.32	≤ 30.00
11ax-HE20	MCS0	36	5180	19.08	20.30	22.74	≤ 30.00
11ax-HE20	MCS0	44	5220	23.31	23.90	26.63	≤ 30.00
11ax-HE20	MCS0	48	5240	22.67	23.72	26.24	≤ 30.00
11ax-HE20	MCS0	52	5260	16.29	17.88	20.17	≤ 23.98
11ax-HE20	MCS0	60	5300	16.91	17.76	20.37	≤ 23.98
11ax-HE20	MCS0	64	5320	16.67	17.23	19.97	≤ 23.98
11ax-HE20	MCS0	100	5500	16.50	16.58	19.55	≤ 23.98
11ax-HE20	MCS0	116	5580	15.81	17.02	19.47	≤ 23.98
11ax-HE20	MCS0	140	5700	16.32	17.22	19.80	≤ 23.98
11ax-HE20	MCS0	144	5720	16.62	16.90	19.77	≤ 23.02
11ax-HE20	MCS0	149	5745	25.43	25.38	28.42	≤ 30.00
11ax-HE20	MCS0	157	5785	25.68	25.54	28.62	≤ 30.00
11ax-HE20	MCS0	165	5825	25.48	25.58	28.54	≤ 30.00

Test Mode	Data Rate MCS	Channel No.	Freq. (MHz)	Average Power (dBm)		Total Average Power (dBm)	Average Power Limit (dBm)
				Ant 0	Ant 1		
11ax-HE40	MCS0	38	5190	13.31	14.31	16.85	≤ 30.00
11ax-HE40	MCS0	46	5230	25.13	25.86	28.52	≤ 30.00
11ax-HE40	MCS0	54	5270	19.11	20.52	22.88	≤ 23.98
11ax-HE40	MCS0	62	5310	15.64	16.32	19.00	≤ 23.98
11ax-HE40	MCS0	102	5510	15.45	15.38	18.43	≤ 23.98
11ax-HE40	MCS0	110	5550	19.23	19.79	22.53	≤ 23.98
11ax-HE40	MCS0	134	5670	18.74	20.13	22.50	≤ 23.98
11ax-HE40	MCS0	142	5710	19.34	19.96	22.67	≤ 23.98
11ax-HE40	MCS0	151	5755	16.78	17.48	20.15	≤ 30.00
11ax-HE40	MCS0	159	5795	25.82	24.56	28.25	≤ 30.00
11ax-HE80	MCS0	42	5210	11.08	11.72	14.42	≤ 30.00
11ax-HE80	MCS0	58	5290	14.48	15.72	18.15	≤ 23.98
11ax-HE80	MCS0	106	5530	14.90	15.14	18.03	≤ 23.98
11ax-HE80	MCS0	122	5610	19.34	20.47	22.95	≤ 23.98
11ax-HE80	MCS0	138	5690	20.03	21.12	23.62	≤ 23.98
11ax-HE80	MCS0	155	5775	19.65	20.71	23.22	≤ 30.00

Note 1: Total Average Power (dBm) = $10 \cdot \log \{10^{(\text{Ant 0 Average Power} / 10)} + 10^{(\text{Ant 1 Average Power} / 10)}\}$.

Note 2: For 5720MHz, Average Power Limit = $11 + 10 \cdot \log(5 + 26 \text{dBc} / 2)$.

Note 3:

For 5250-5350MHz & 5470-5725MHz, the conducted power limit is not exceed the lesser of 23.98dBm or $11 \text{ dBm} + 10 \log B$.

802.11a/ac-VHT20/ac-VHT40/ac-VHT80/ax-HE20/ax-HE40/ax-HE80: $11 + 10 \log_{10} B > 23.98 \text{dBm}$

Note 3: For straddle channel, the conducted power limit is as below. The average power is measured from the entire emission across the whole emission bandwidth using a broadband power meter.

802.11a CH144: $11 + 10 \log_{10} (B) = 22.82 \text{dBm}$, $B = 20.42 / 2 + 5 = 15.21 \text{MHz}$.

802.11ac-VHT20 CH144: $11 + 10 \log_{10} (B) = 22.88 \text{dBm}$, $B = 20.84 / 2 + 5 = 15.42 \text{MHz}$.

802.11ax-HE20 CH144: $11 + 10 \log_{10} (B) = 23.02 \text{dBm}$, $B = 21.85 / 2 + 5 = 15.925 \text{MHz}$.

A.5 Power Spectral Density Test Result

Test Site	WZ-TR3	Test Engineer	Luis Yang
Test Date	2022-07-21~2022-11-01		
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	7.94	9.00	95.36	11.72	≤ 14.49
11a	6Mbps	44	5220	10.61	11.45	95.36	14.26	≤ 14.49
11a	6Mbps	48	5240	10.61	11.32	95.36	14.19	≤ 14.49
11a	6Mbps	52	5260	3.70	5.30	95.36	7.79	≤ 8.49
11a	6Mbps	60	5300	4.37	5.45	95.36	8.16	≤ 8.49
11a	6Mbps	64	5320	4.19	5.02	95.36	7.84	≤ 8.49
11a	6Mbps	100	5500	3.82	3.83	95.36	7.04	≤ 7.99
11a	6Mbps	116	5580	3.18	4.40	95.36	7.05	≤ 7.99
11a	6Mbps	140	5700	3.62	4.64	95.36	7.37	≤ 7.99
11a	6Mbps	144	5720	4.01	4.45	95.36	7.45	≤ 7.99
11ac-VHT20	MCS0	36	5180	7.09	8.21	94.42	10.94	≤ 14.49
11ac-VHT20	MCS0	44	5220	10.09	10.97	94.42	13.81	≤ 14.49
11ac-VHT20	MCS0	48	5240	10.58	11.41	94.42	14.28	≤ 14.49
11ac-VHT20	MCS0	52	5260	3.96	5.55	94.42	8.08	≤ 8.49
11ac-VHT20	MCS0	60	5300	4.62	5.48	94.42	8.33	≤ 8.49
11ac-VHT20	MCS0	64	5320	4.59	4.88	94.42	8.00	≤ 8.49
11ac-VHT20	MCS0	100	5500	4.06	4.17	94.42	7.37	≤ 7.99
11ac-VHT20	MCS0	116	5580	3.74	4.95	94.42	7.65	≤ 7.99
11ac-VHT20	MCS0	140	5700	4.03	4.89	94.42	7.74	≤ 7.99
11ac-VHT20	MCS0	144	5720	4.36	4.61	94.42	7.74	≤ 7.99
11ac-VHT40	MCS0	38	5190	-0.27	-1.50	94.04	2.44	≤ 14.49
11ac-VHT40	MCS0	46	5230	10.40	11.19	94.04	14.09	≤ 14.49
11ac-VHT40	MCS0	54	5270	4.25	5.78	94.04	8.36	≤ 8.49
11ac-VHT40	MCS0	62	5310	1.38	1.95	94.04	4.95	≤ 8.49
11ac-VHT40	MCS0	102	5510	0.81	1.02	94.04	4.20	≤ 7.99
11ac-VHT40	MCS0	110	5550	4.26	4.68	94.04	7.75	≤ 7.99
11ac-VHT40	MCS0	134	5670	2.84	4.28	94.04	6.90	≤ 7.99
11ac-VHT40	MCS0	142	5710	3.88	4.47	94.04	7.46	≤ 7.99

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			
11ac-VHT80	MCS0	42	5210	-7.13	-6.12	94.07	-3.32	≤ 14.49
11ac-VHT80	MCS0	58	5290	-3.24	-2.23	94.07	0.57	≤ 8.49
11ac-VHT80	MCS0	106	5530	-3.05	-2.70	94.07	0.41	≤ 7.99
11ac-VHT80	MCS0	122	5610	2.53	3.49	94.07	6.31	≤ 7.99
11ac-VHT80	MCS0	138	5690	1.99	3.08	94.07	5.85	≤ 7.99
11ax-HE20	MCS0	36	5180	6.70	7.75	93.38	10.56	≤ 14.49
11ax-HE20	MCS0	44	5220	10.58	11.45	93.38	14.34	≤ 14.49
11ax-HE20	MCS0	48	5240	10.66	11.24	93.38	14.27	≤ 14.49
11ax-HE20	MCS0	52	5260	3.63	5.15	93.38	7.76	≤ 8.49
11ax-HE20	MCS0	60	5300	4.33	5.09	93.38	8.03	≤ 8.49
11ax-HE20	MCS0	64	5320	4.02	4.66	93.38	7.66	≤ 8.49
11ax-HE20	MCS0	100	5500	3.86	3.74	93.38	7.10	≤ 7.99
11ax-HE20	MCS0	116	5580	3.44	4.57	93.38	7.35	≤ 7.99
11ax-HE20	MCS0	140	5700	3.83	4.49	93.38	7.48	≤ 7.99
11ax-HE20	MCS0	144	5720	3.91	4.13	93.38	7.33	≤ 7.99
11ax-HE40	MCS0	38	5190	-1.78	-0.60	93.87	2.14	≤ 14.49
11ax-HE40	MCS0	46	5230	10.16	11.04	93.87	13.91	≤ 14.49
11ax-HE40	MCS0	54	5270	4.11	5.47	93.87	8.13	≤ 8.49
11ax-HE40	MCS0	62	5310	0.81	1.73	93.87	4.58	≤ 8.49
11ax-HE40	MCS0	102	5510	0.61	0.63	93.87	3.91	≤ 7.99
11ax-HE40	MCS0	110	5550	4.18	4.63	93.87	7.70	≤ 7.99
11ax-HE40	MCS0	134	5670	3.53	5.00	93.87	7.61	≤ 7.99
11ax-HE40	MCS0	142	5710	4.35	4.58	93.87	7.75	≤ 7.99
11ax-HE80	MCS0	42	5210	-6.74	-6.22	93.01	-3.15	≤ 14.49
11ax-HE80	MCS0	58	5290	-3.18	-2.09	93.01	0.73	≤ 8.49
11ax-HE80	MCS0	106	5530	-2.90	-2.59	93.01	0.58	≤ 7.99
11ax-HE80	MCS0	122	5610	-1.57	-2.88	93.01	1.15	≤ 7.99
11ax-HE80	MCS0	138	5690	1.95	2.97	93.01	5.82	≤ 7.99

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

Note 2: For NII-1, PSD Limit (dBm/MHz) = 17 - (8.51 - 6) = 14.49 (dBm/MHz).

For NII-2a, PSD Limit (dBm/MHz) = 11 - (8.51 - 6) = 8.49 (dBm/MHz).

For NII-2c, PSD Limit (dBm/MHz) = 11 - (9.01 - 6) = 7.99 (dBm/MHz).

Test Site	WZ-TR3	Test Engineer	Luis Yang
Test Date	2022-07-21~2022-09-03		
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	10.52	11.12	95.36	14.05	≤ 27.49
11a	6Mbps	157	5785	11.15	11.06	95.36	14.32	≤ 27.49
11a	6Mbps	165	5825	11.17	10.61	95.36	14.12	≤ 27.49
11ac-VHT20	MCS0	149	5745	10.53	10.47	94.42	13.76	≤ 27.49
11ac-VHT20	MCS0	157	5785	10.59	10.80	94.42	13.96	≤ 27.49
11ac-VHT20	MCS0	165	5825	10.55	10.59	94.42	13.83	≤ 27.49
11ac-VHT40	MCS0	151	5755	-0.71	0.60	94.04	3.27	≤ 27.49
11ac-VHT40	MCS0	159	5795	8.09	7.61	94.04	11.14	≤ 27.49
11ac-VHT80	MCS0	155	5775	0.04	1.00	94.07	3.82	≤ 27.49
11ax-HE20	MCS0	149	5745	10.31	10.01	93.38	13.47	≤ 27.49
11ax-HE20	MCS0	157	5785	10.05	10.57	93.38	13.62	≤ 27.49
11ax-HE20	MCS0	165	5825	10.04	9.99	93.38	13.33	≤ 27.49
11ax-HE40	MCS0	151	5755	-0.78	0.44	93.87	3.15	≤ 27.49
11ax-HE40	MCS0	159	5795	8.12	7.35	93.87	11.04	≤ 27.49
11ax-HE80	MCS0	155	5775	-1.19	0.01	93.01	2.78	≤ 27.49

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

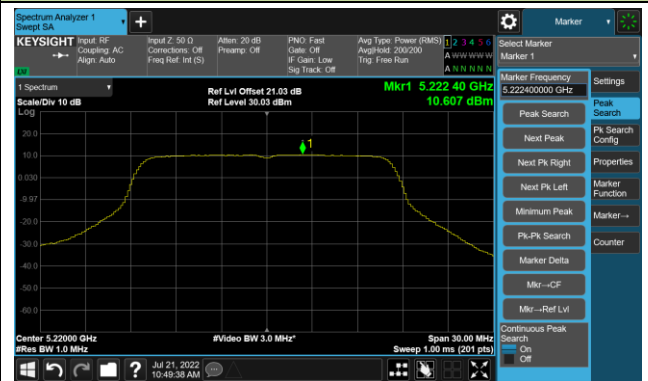
Note 2: PSD Limit (dBm/500KHz) = $30 - (8.51 - 6) = 27.49$ (dBm/500KHz).

802.11a Power Spectral Density- Ant 0

Channel 36 (5180MHz)



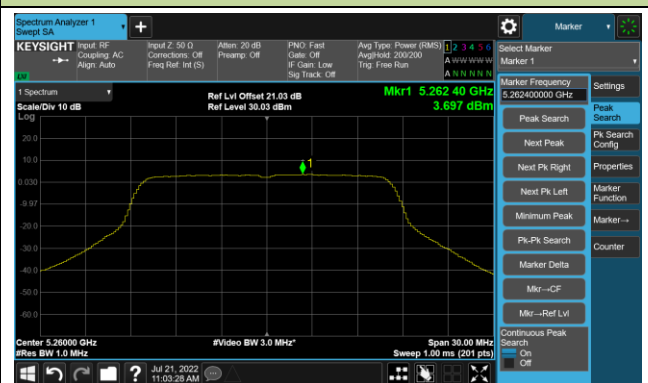
Channel 44 (5220MHz)



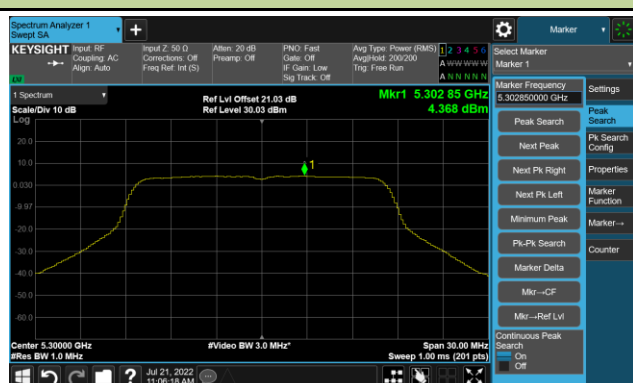
Channel 48 (5240MHz)



Channel 52 (5260MHz)

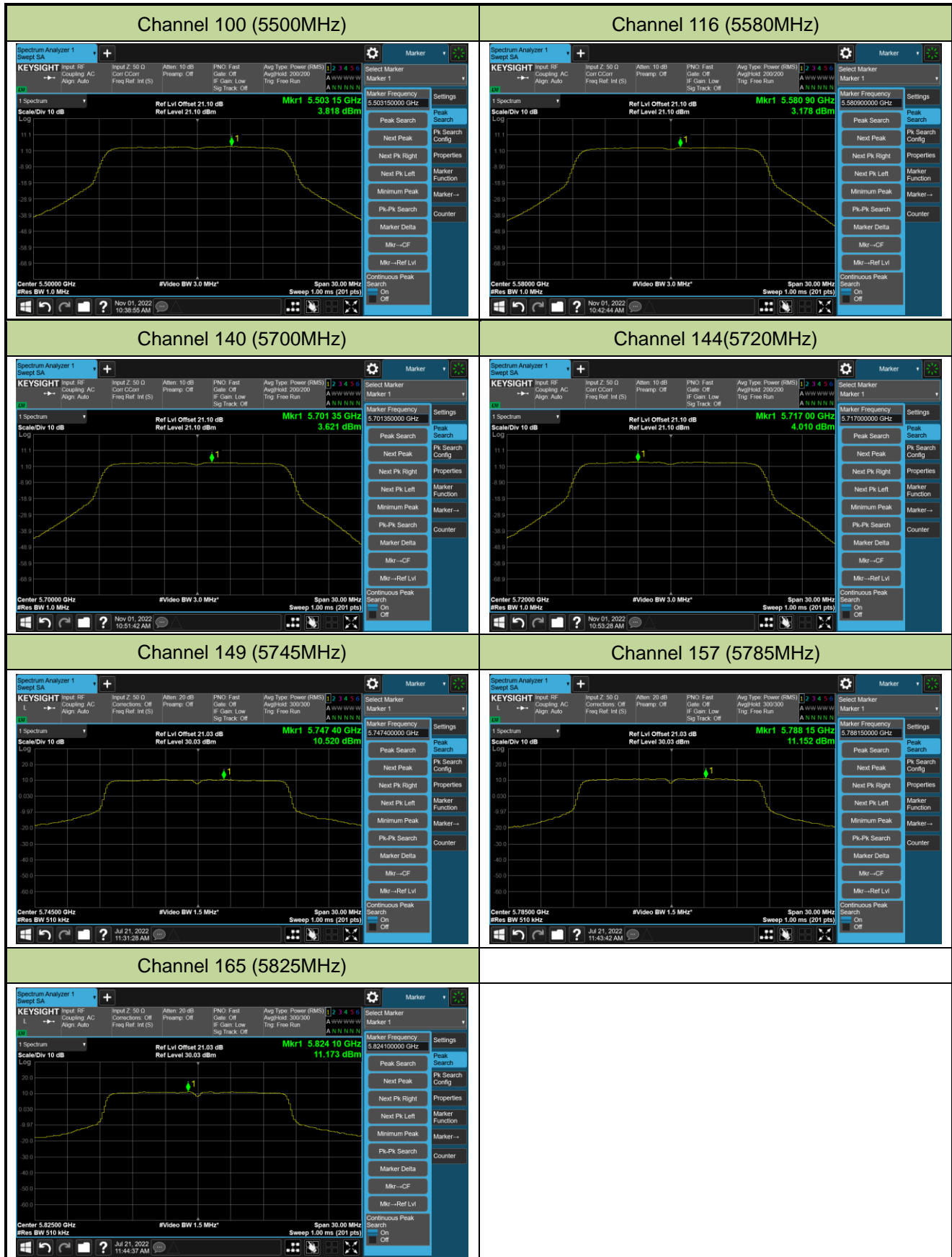


Channel 60 (5300MHz)



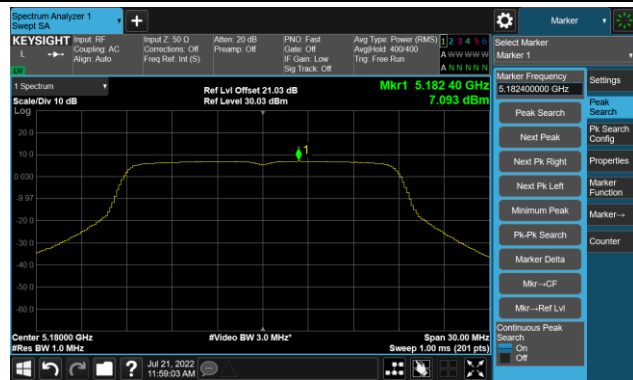
Channel 64 (5320MHz)



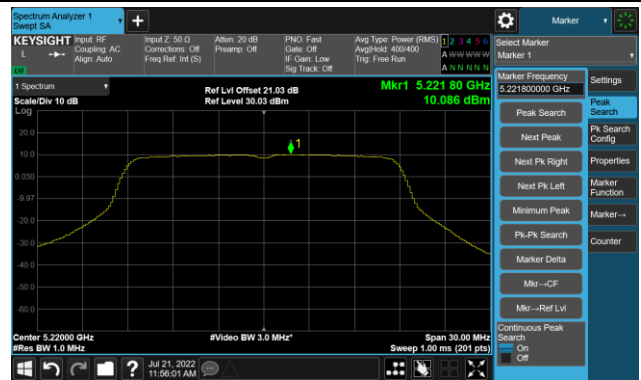


802.11ac-VHT20 Power Spectral Density- Ant 0

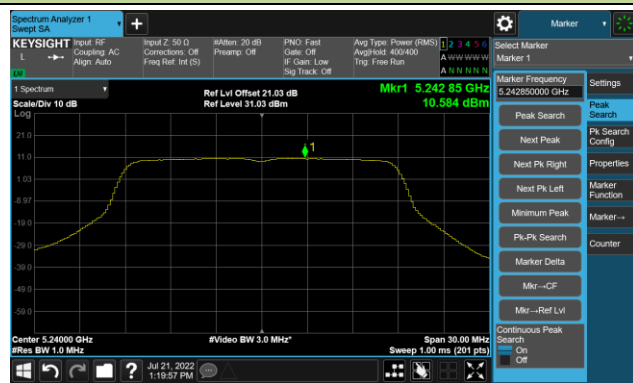
Channel 36 (5180MHz)



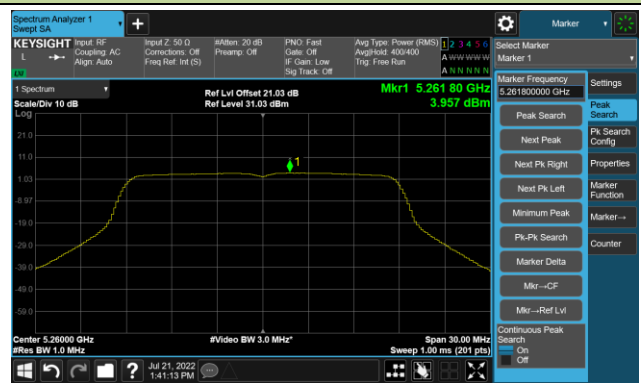
Channel 44 (5220MHz)



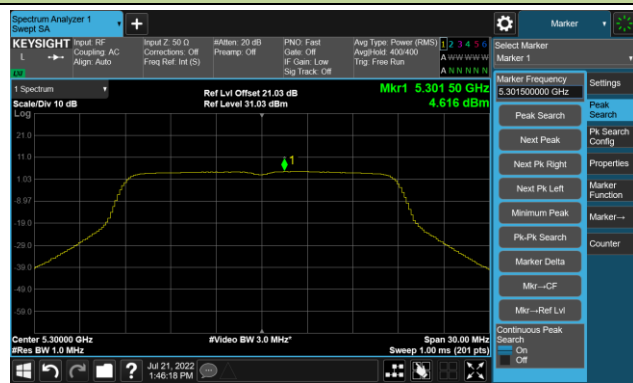
Channel 48 (5240MHz)



Channel 52 (5260MHz)



Channel 60 (5300MHz)

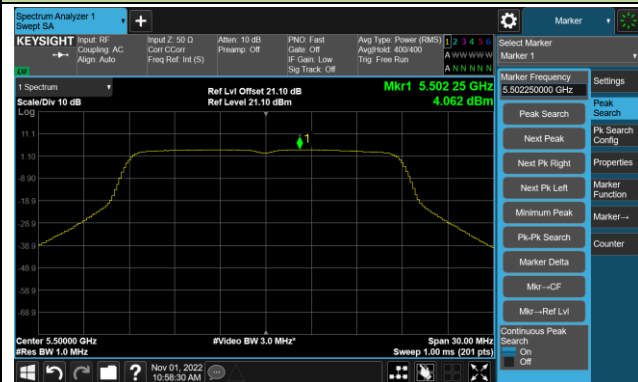


Channel 64 (5320MHz)



802.11ac-VHT20 Power Spectral Density- Ant 0

Channel 100 (5500MHz)



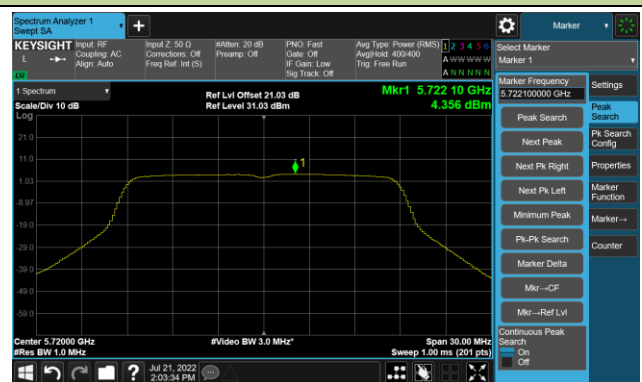
Channel 116 (5580MHz)



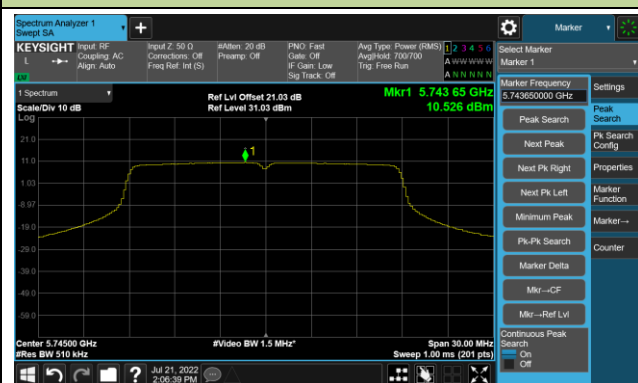
Channel 140 (5700MHz)



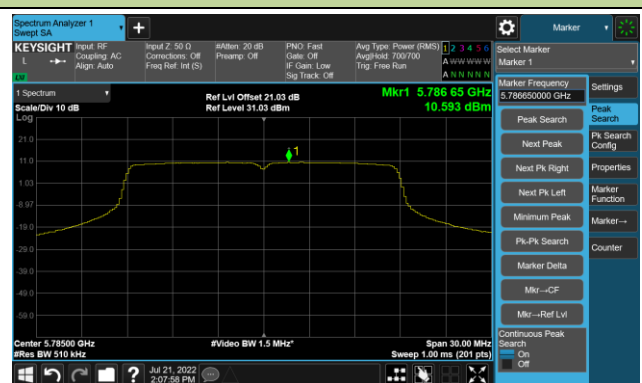
Channel 144(5720MHz)



Channel 149 (5745MHz)



Channel 157 (5785MHz)



Channel 165 (5825MHz)



802.11ac-VHT40 Power Spectral Density- Ant 0

Channel 38 (5190MHz)



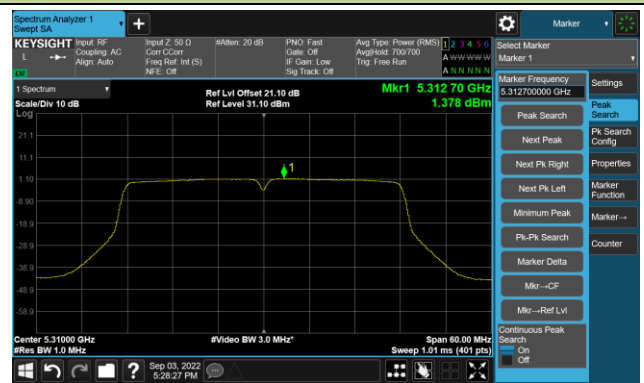
Channel 46 (5230MHz)



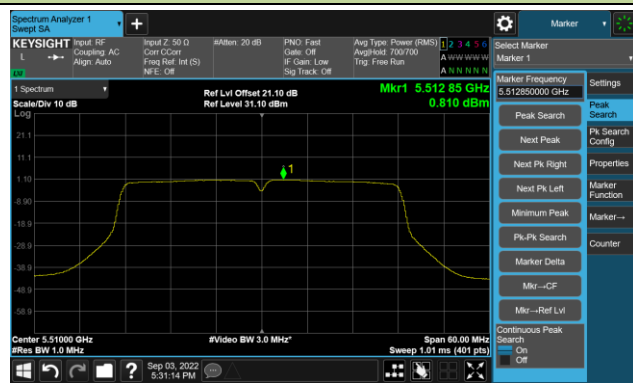
Channel 54 (5270MHz)



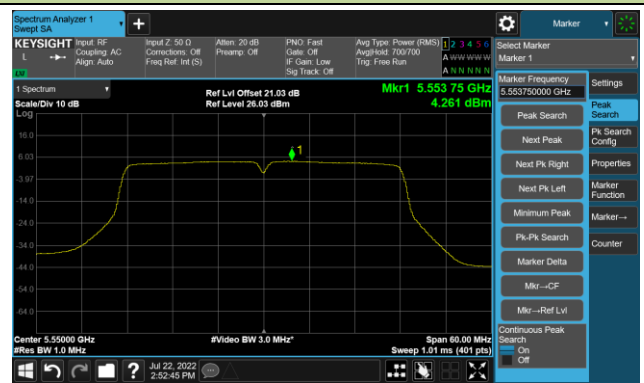
Channel 62 (5310MHz)



Channel 102 (5510MHz)

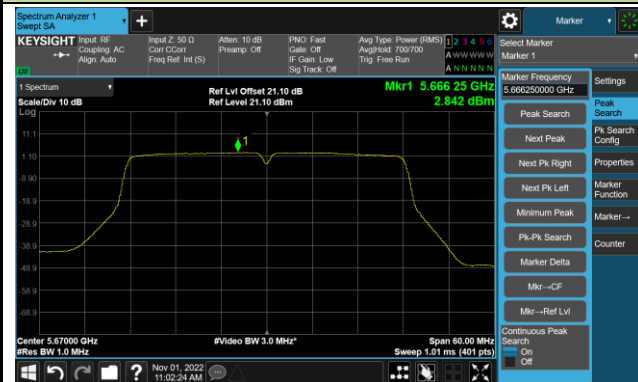


Channel 110 (5550MHz)



802.11ac-VHT40 Power Spectral Density- Ant 0

Channel 134 (5670MHz)



Channel 142(5710MHz)



Channel 151 (5755MHz)



Channel 159 (5795MHz)



802.11ac-VHT80 Power Spectral Density- Ant 0

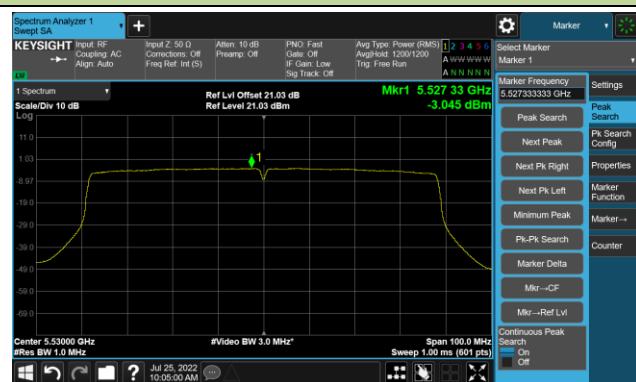
Channel 42 (5210MHz)



Channel 58 (5290MHz)



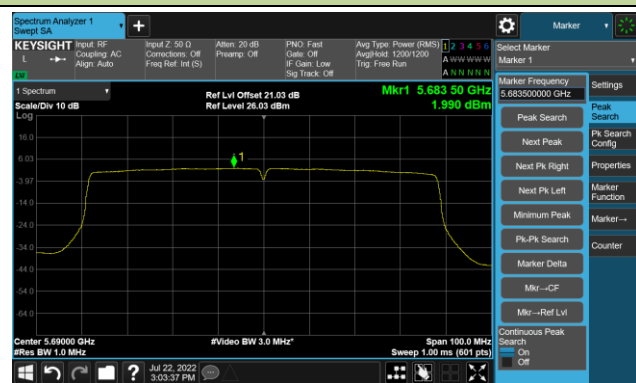
Channel 106 (5530MHz)



Channel 122 (5610MHz)



Channel 138 (5690MHz)

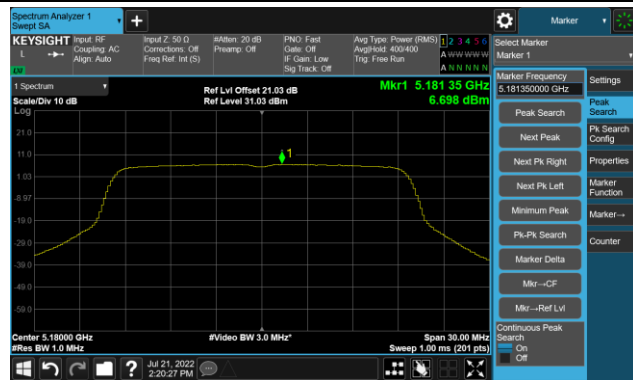


Channel 155 (5775MHz)



802.11ax-HE20 Power Spectral Density- Ant 0

Channel 36 (5180MHz)



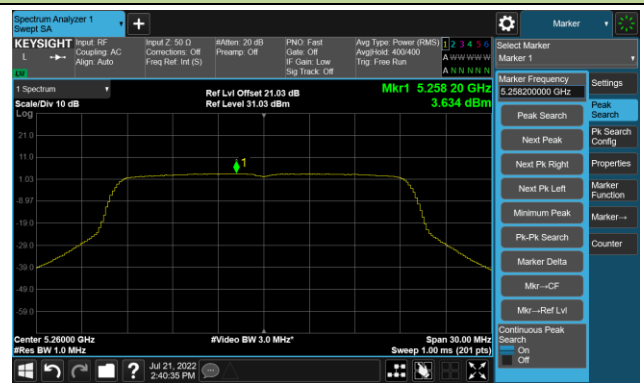
Channel 44 (5220MHz)



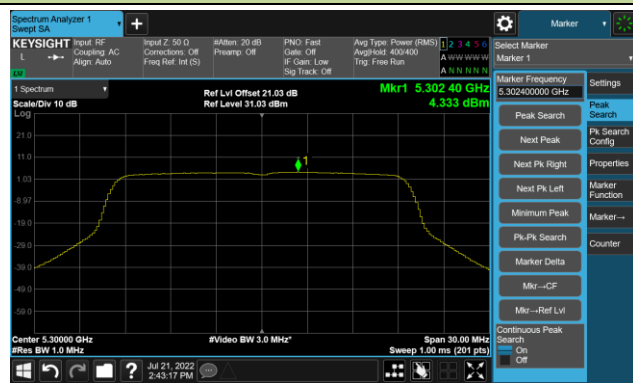
Channel 48 (5240MHz)



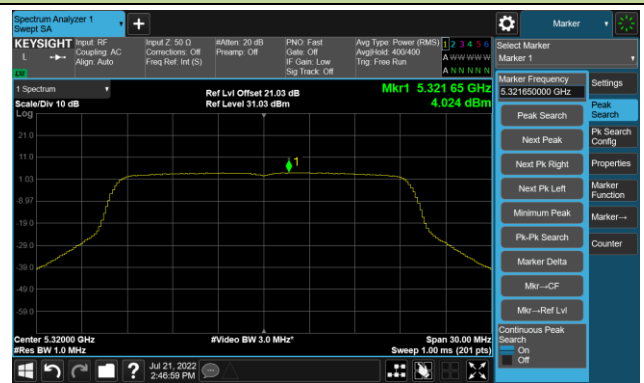
Channel 52 (5260MHz)



Channel 60 (5300MHz)



Channel 64 (5320MHz)



802.11ax-HE20 Power Spectral Density- Ant 0

Channel 100 (5500MHz)



Channel 116 (5580MHz)



Channel 140 (5700MHz)



Channel 144 (5720MHz)



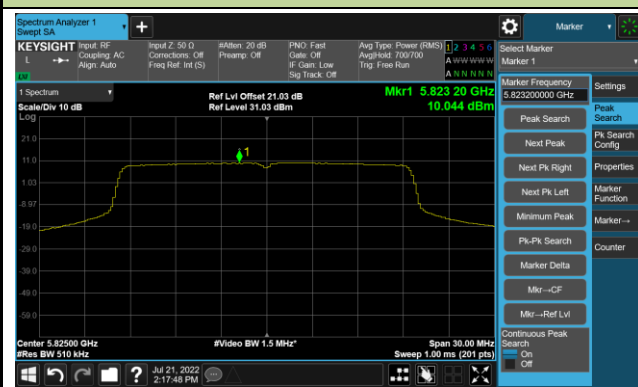
Channel 149 (5745MHz)



Channel 157 (5785MHz)

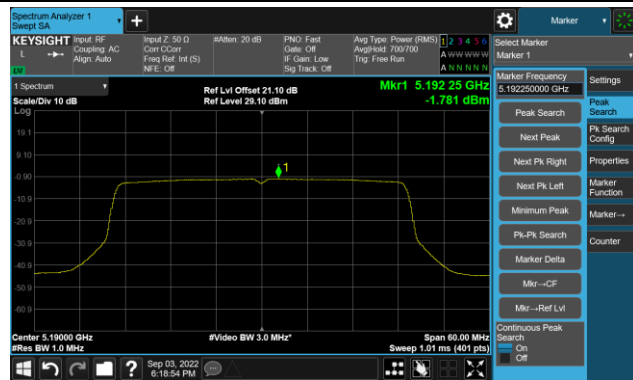


Channel 165 (5825MHz)



802.11ax-HE40 Power Spectral Density- Ant 0

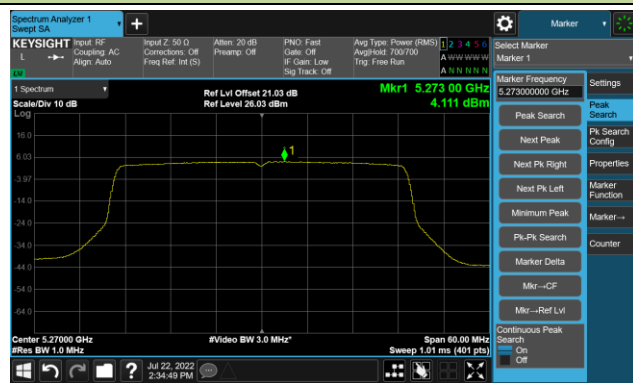
Channel 38 (5190MHz)



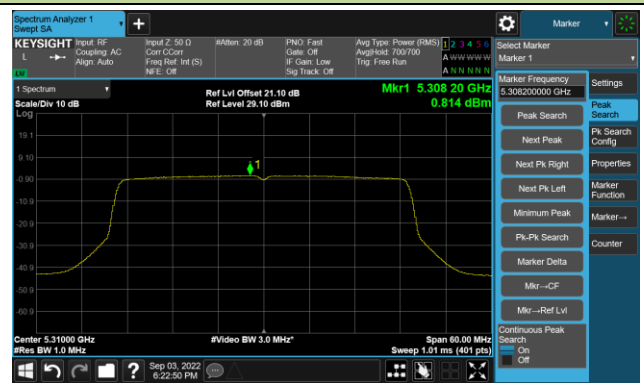
Channel 46 (5230MHz)



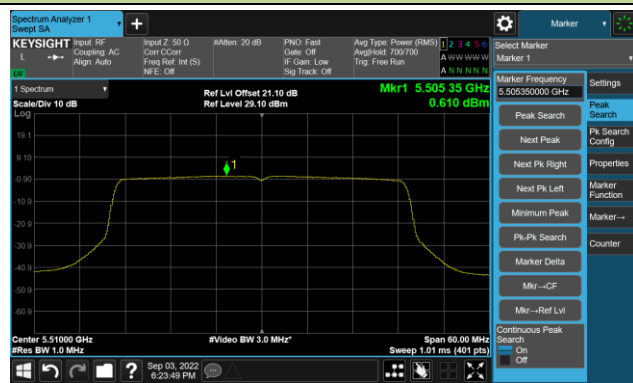
Channel 54 (5270MHz)



Channel 62 (5310MHz)



Channel 102 (5510MHz)

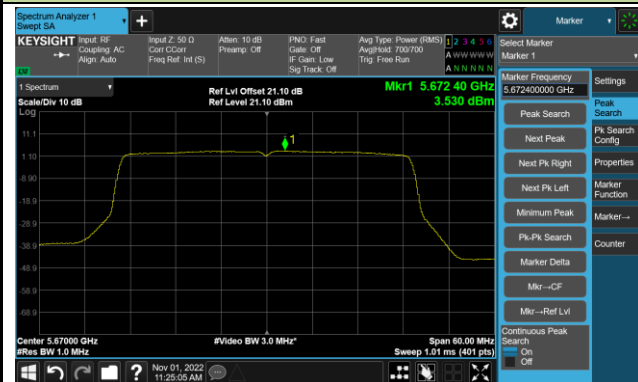


Channel 110 (5550MHz)

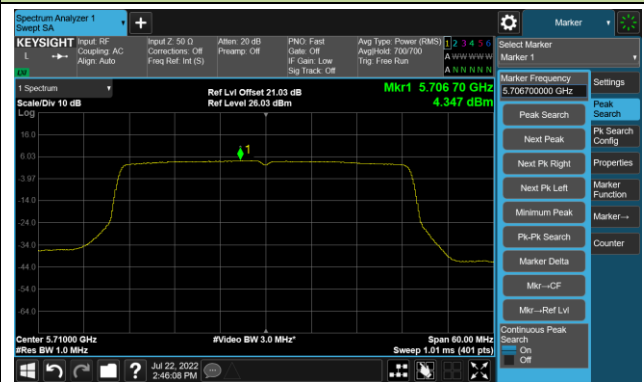


802.11ax-HE40 Power Spectral Density- Ant 0

Channel 134 (5670MHz)



Channel 142(5710MHz)



Channel 151 (5755MHz)



Channel 159 (5795MHz)

