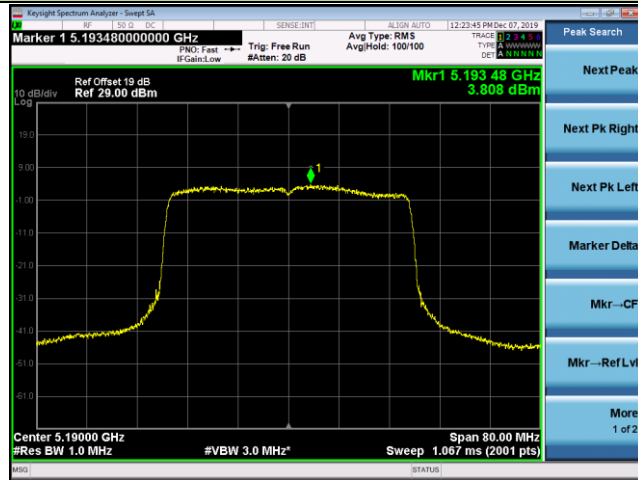
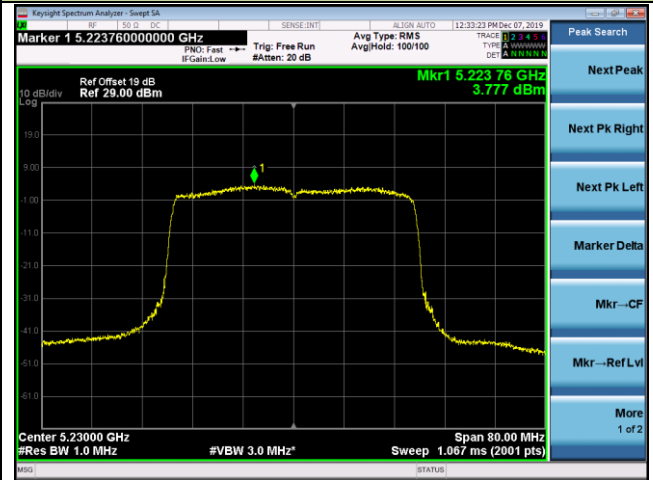


802.11ax-HE40 Power Spectral Density - Ant 2 / Ant 0 + 1 + 2 + 3

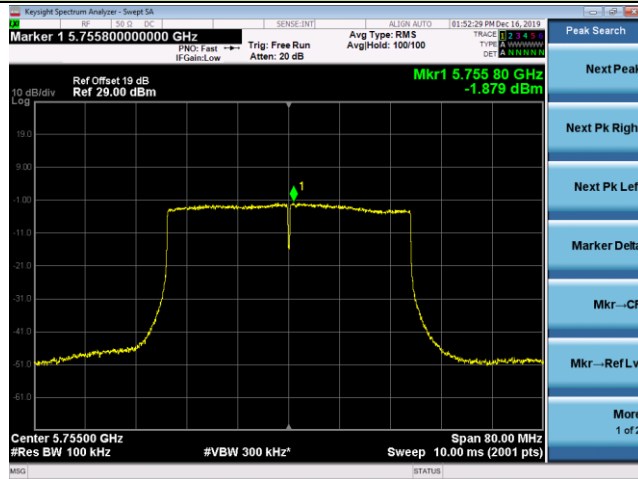
Channel 38 (5190MHz)



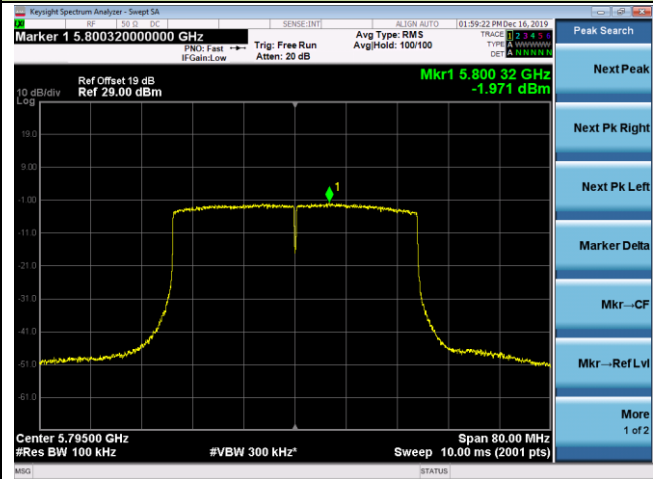
Channel 46 (5230MHz)



Channel 151 (5755MHz)

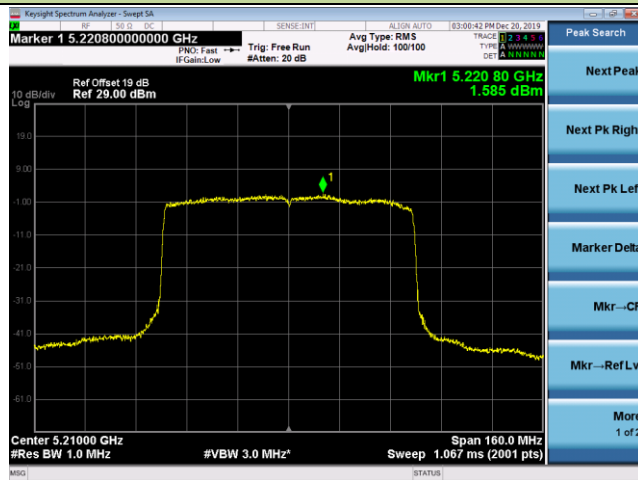


Channel 159 (5795MHz)

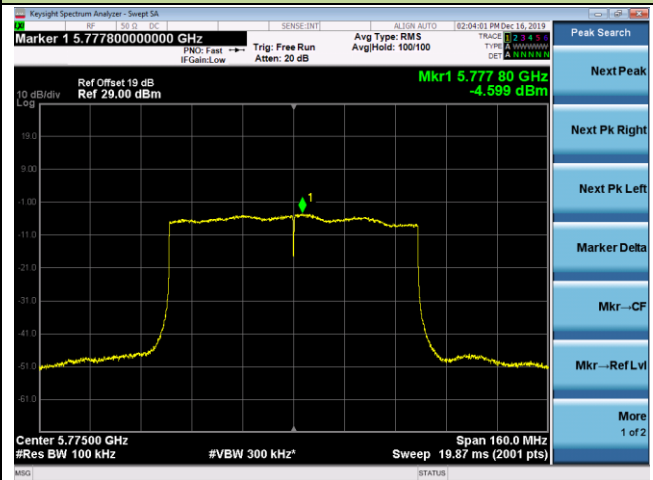


802.11ax-HE80 Power Spectral Density - Ant 2 / Ant 0 + 1 + 2 + 3

Channel 42 (5210MHz)

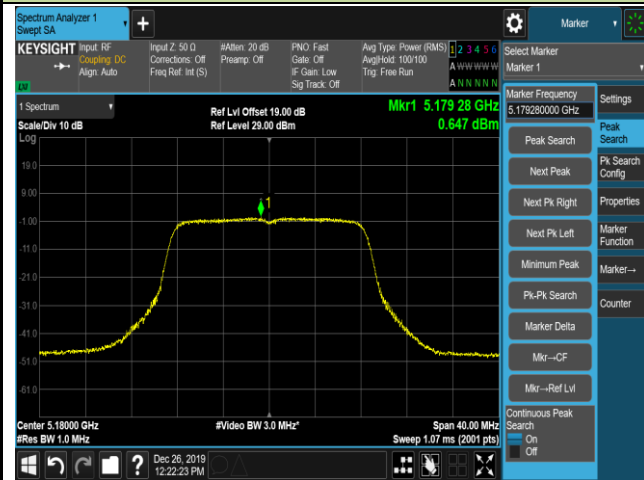


Channel 155 (5775MHz)

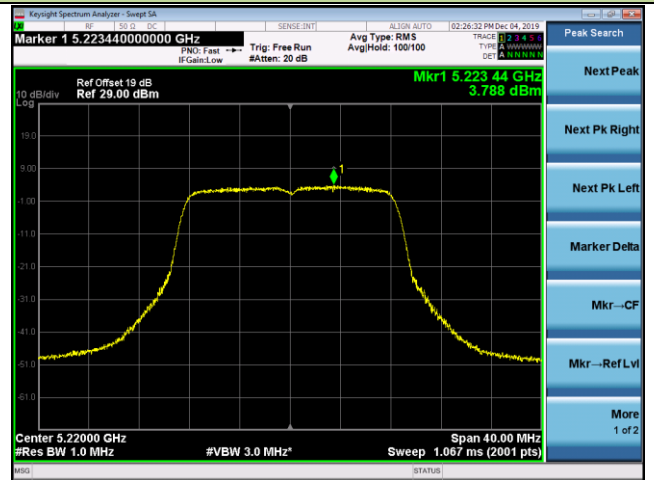


802.11a Power Spectral Density - Ant 3 / Ant 0 + 1 + 2 + 3

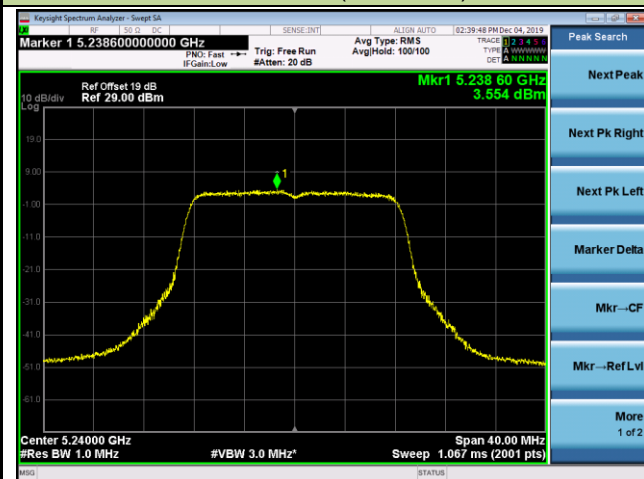
Channel 36 (5180MHz)



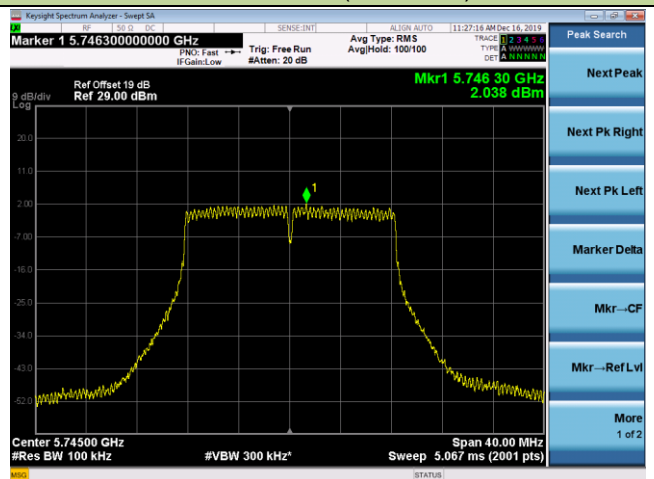
Channel 44 (5220MHz)



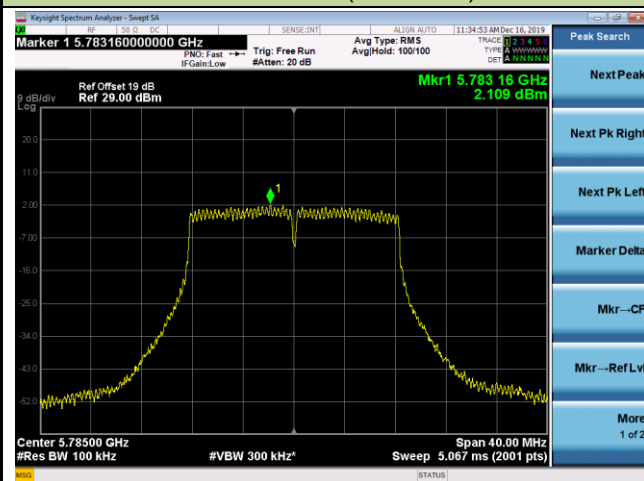
Channel 48 (5240MHz)



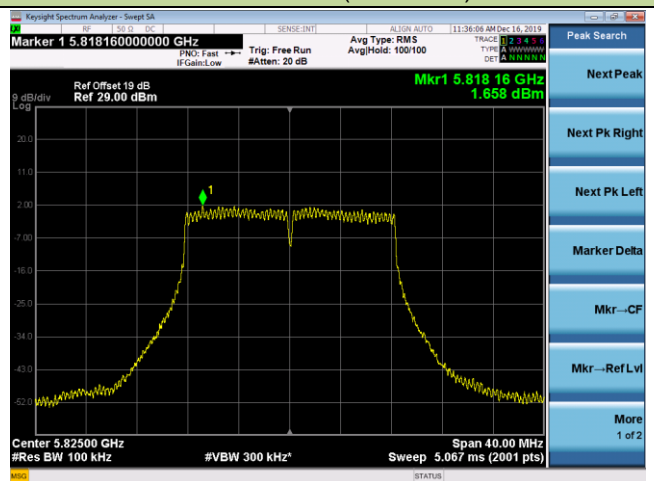
Channel 149 (5745MHz)



Channel 157 (5785MHz)

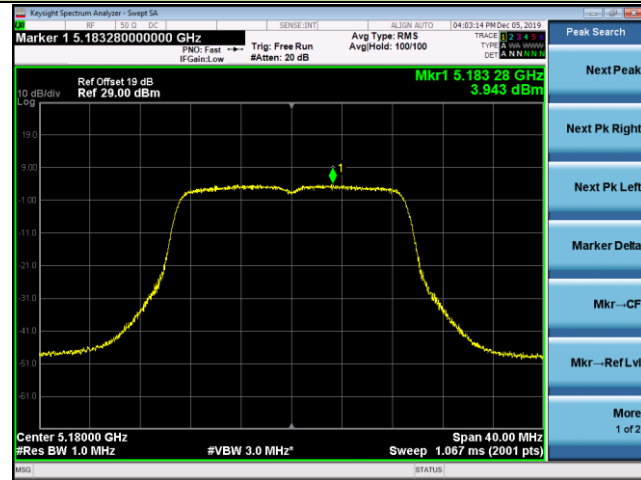


Channel 165 (5825MHz)

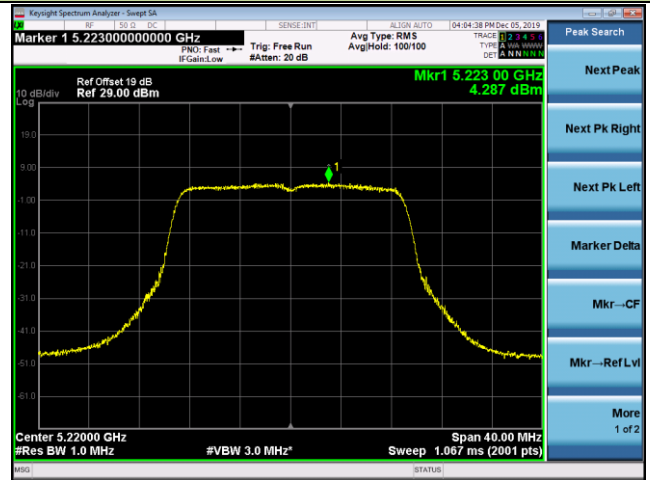


802.11n-HT20 Power Spectral Density - Ant 3 / Ant 0 + 1 + 2 + 3

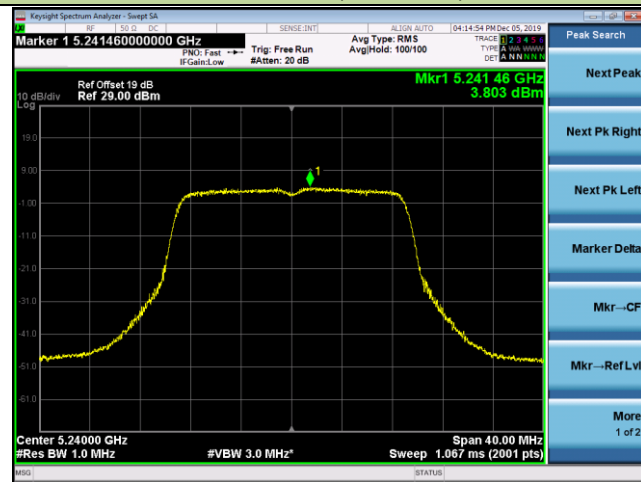
Channel 36 (5180MHz)



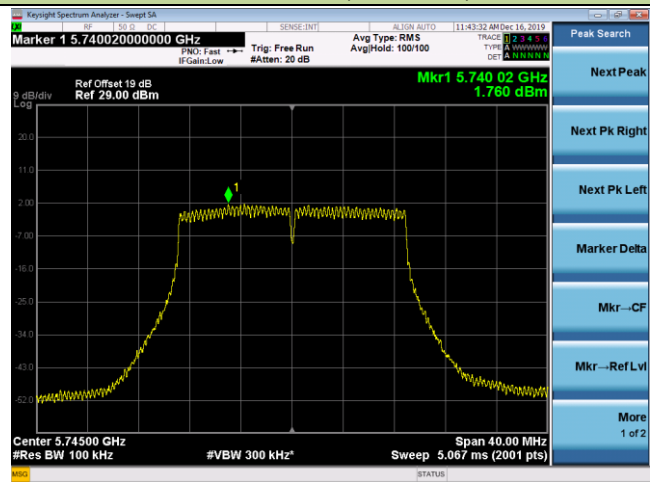
Channel 44 (5220MHz)



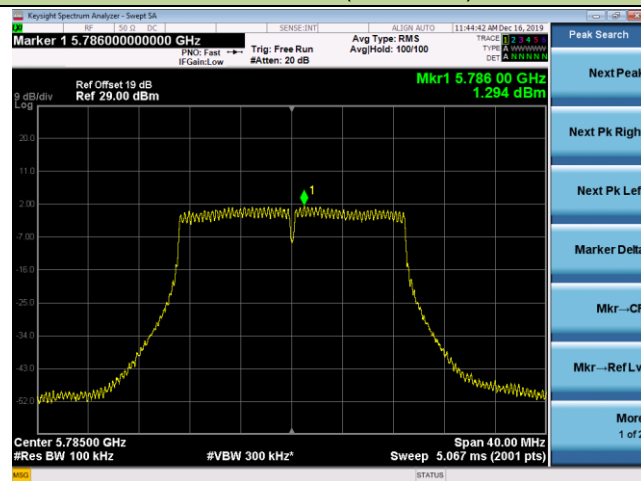
Channel 48 (5240MHz)



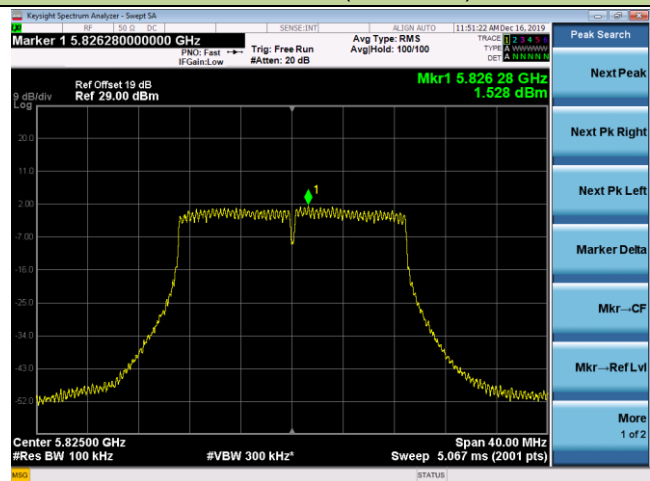
Channel 149 (5745MHz)



Channel 157 (5785MHz)

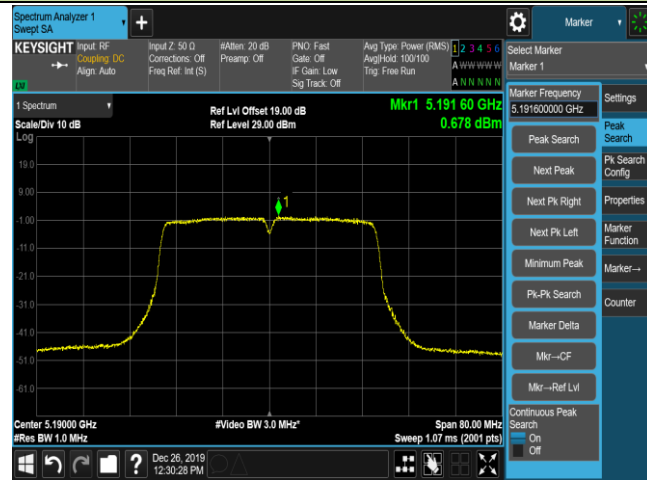


Channel 165 (5825MHz)

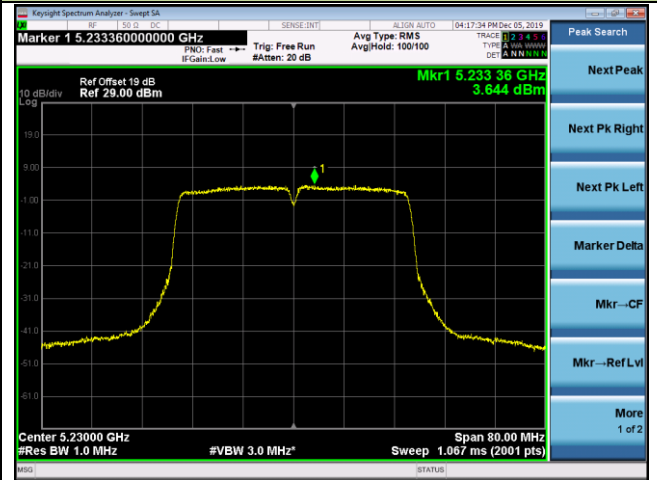


802.11n-HT40 Power Spectral Density - Ant 3 / Ant 0 + 1 + 2 + 3

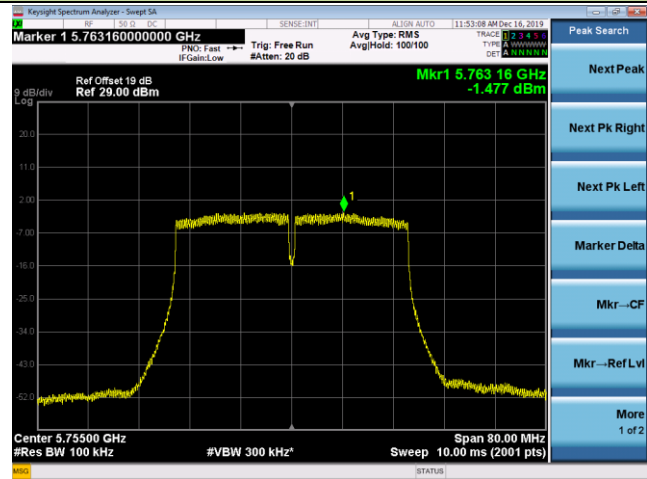
Channel 38 (5190MHz)



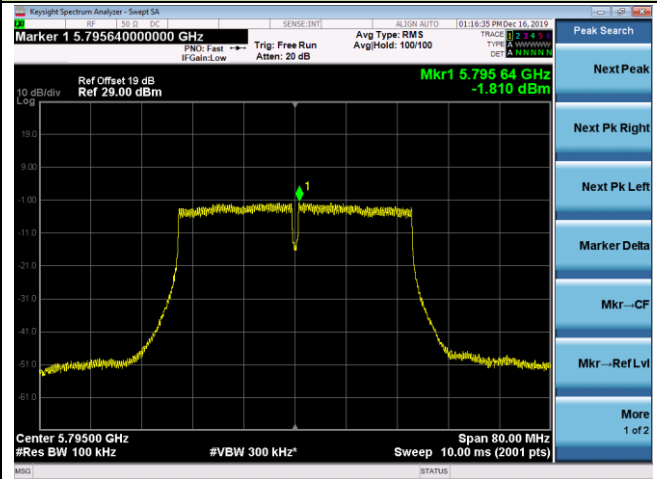
Channel 46 (5230MHz)



Channel 151 (5755MHz)

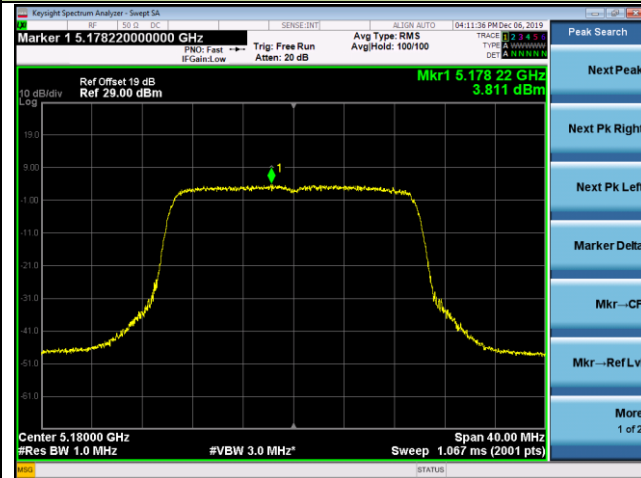


Channel 159 (5795MHz)

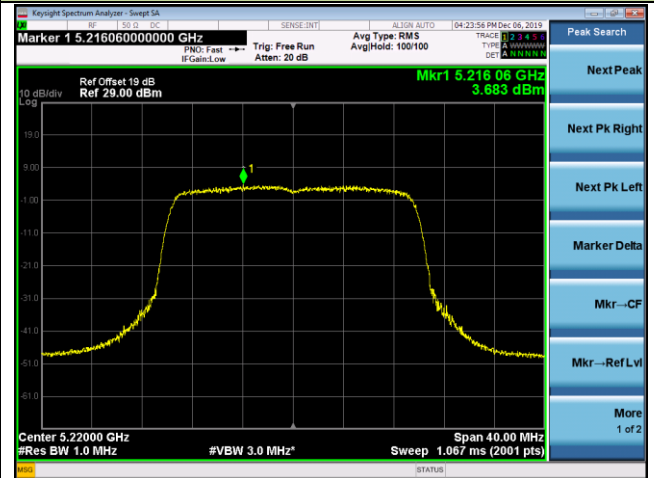


802.11ax-HE20 Power Spectral Density - Ant 3 / Ant 0 + 1 + 2 + 3

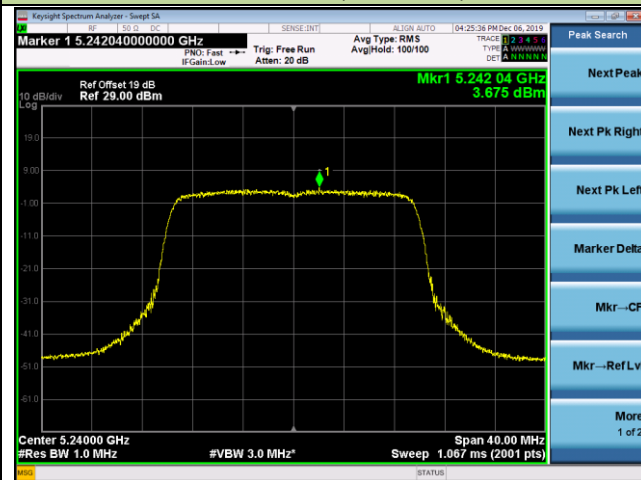
Channel 36 (5180MHz)



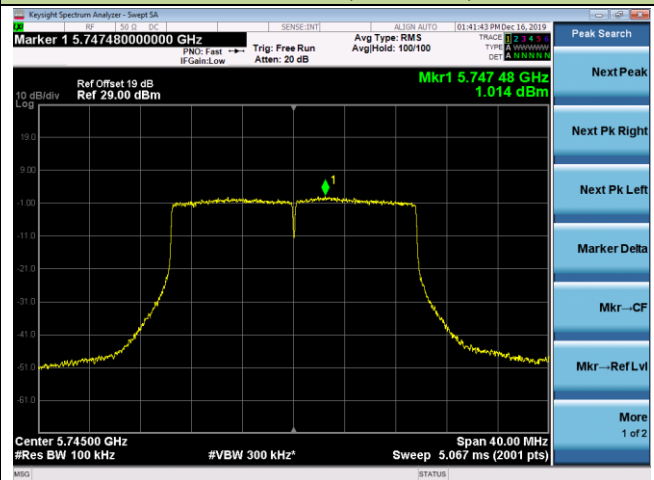
Channel 44 (5220MHz)



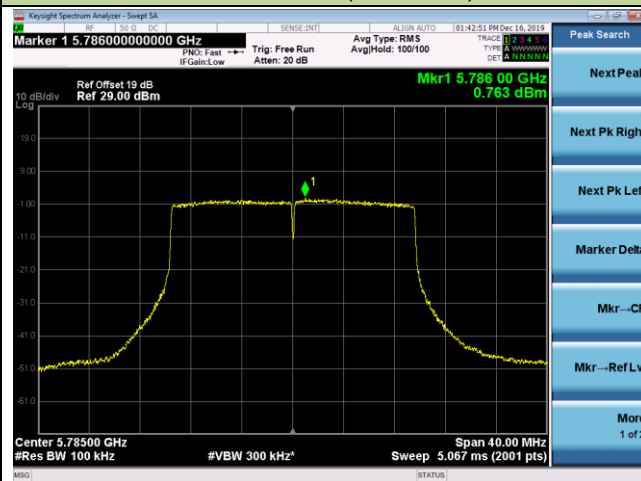
Channel 48 (5240MHz)



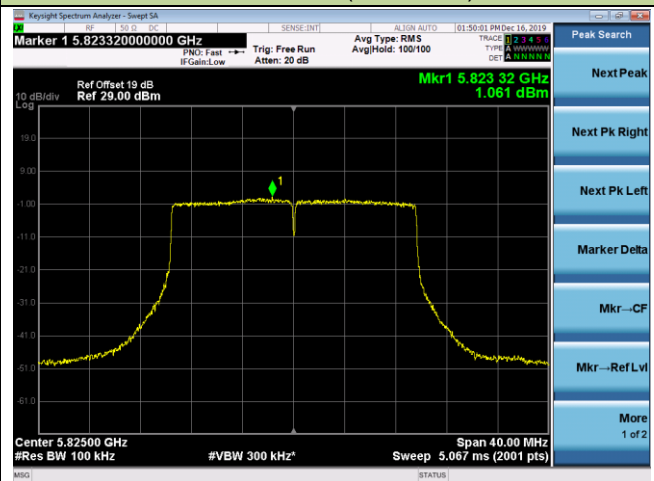
Channel 149 (5745MHz)



Channel 157 (5785MHz)

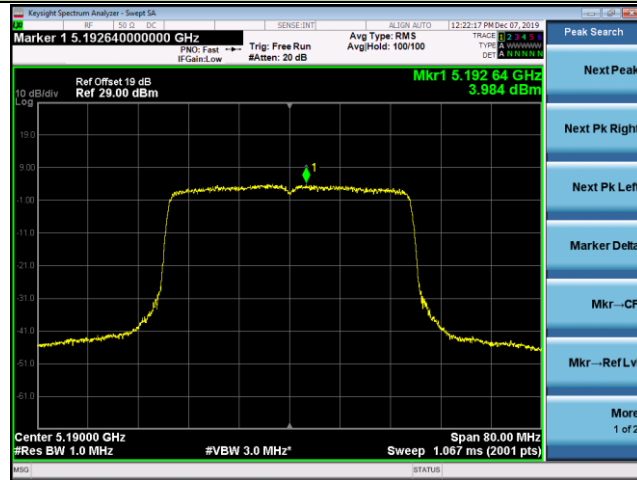


Channel 165 (5825MHz)

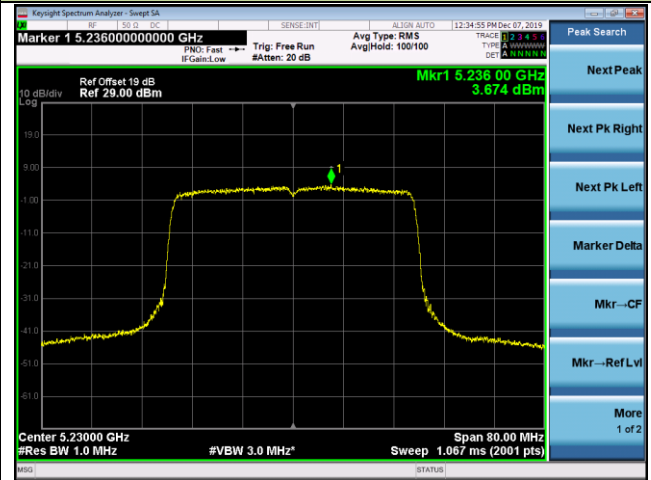


802.11ax-HE40 Power Spectral Density - Ant 3 / Ant 0 + 1 + 2 + 3

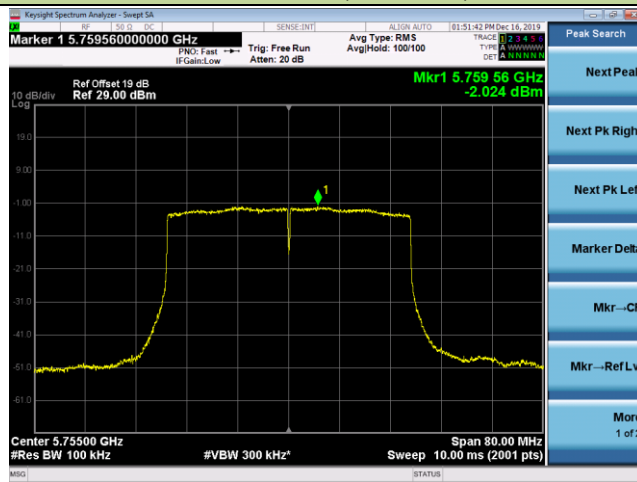
Channel 38 (5190MHz)



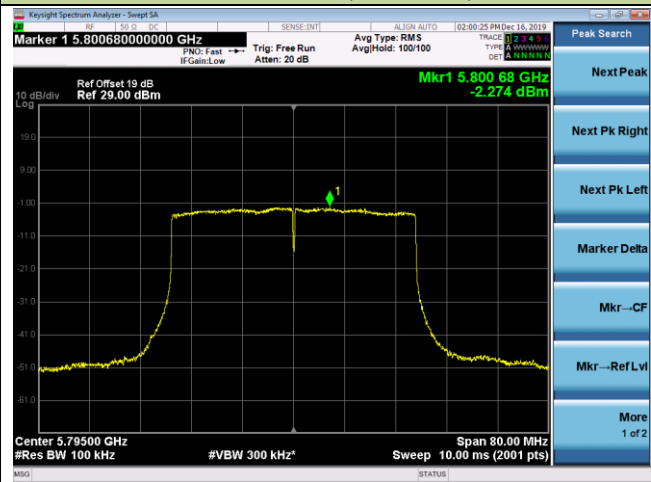
Channel 46 (5230MHz)



Channel 151 (5755MHz)

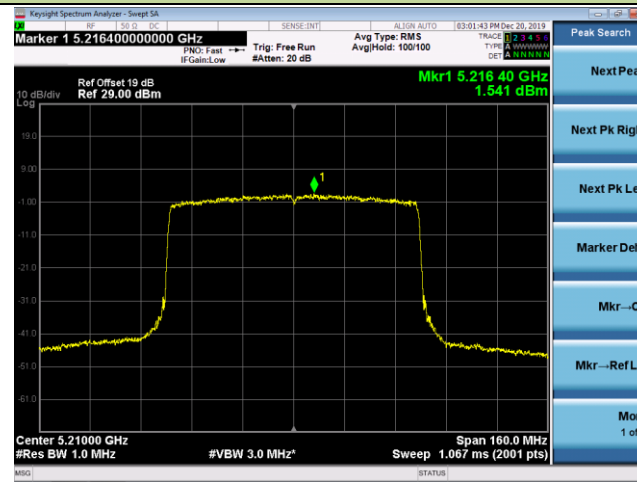


Channel 159 (5795MHz)

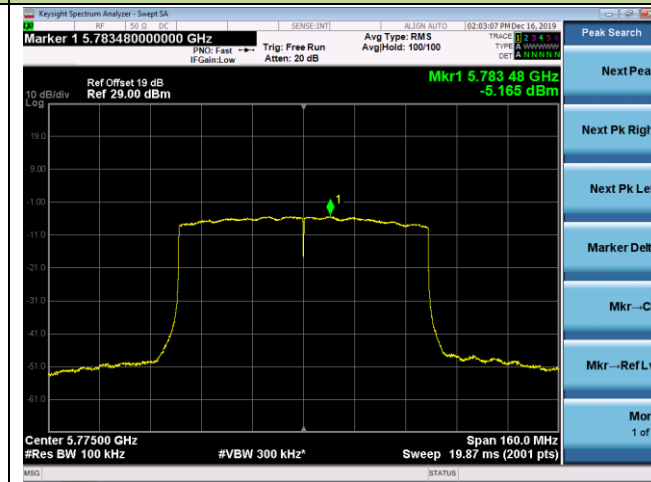


802.11ax-HE80 Power Spectral Density - Ant 3 / Ant 0 + 1 + 2 + 3

Channel 42 (5210MHz)



Channel 155 (5775MHz)



Product	OmniAccess Stellar	Temperature	22 ~ 25°C
Test Engineer	David Lv	Relative Humidity	46 ~ 54%
Test Site	TR3	Test Date	2019/10/12 ~ 2020/03/02
Model No.	OAW-AP1361D	Test Item	Power Spectral Density

Test Mode	Data Rate/MCS	Channel No.	Freq. (MHz)	Ant 0 PSD (dBm/MHz)	Ant 1 PSD (dBm/MHz)	Ant 2 PSD (dBm/MHz)	Ant 3 PSD (dBm/MHz)	Duty Cycle (%)	Total PSD (dBm/MHz)	PSD Limit (dBm/MHz)	Result
11a	6Mbps	36	5180	-2.01	-2.45	-1.97	-2.30	92.14	4.20	≤ 9.58	Pass
11a	6Mbps	44	5220	-2.52	-1.74	-2.11	-1.92	92.14	4.31	≤ 9.58	Pass
11a	6Mbps	48	5240	-2.20	-1.80	-2.14	-2.27	92.14	4.28	≤ 9.58	Pass
11n-HT20	MCS0	36	5180	-2.29	-1.96	-1.98	-1.83	95.80	4.20	≤ 9.58	Pass
11n-HT20	MCS0	44	5220	-2.35	-1.60	-1.61	-1.82	95.80	4.37	≤ 9.58	Pass
11n-HT20	MCS0	48	5240	-1.41	-1.23	-2.20	-1.68	95.80	4.59	≤ 9.58	Pass
11n-HT40	MCS0	38	5190	-4.86	-5.00	-5.10	-4.75	93.70	1.38	≤ 9.58	Pass
11n-HT40	MCS0	46	5230	-5.07	-4.55	-4.25	-4.95	93.70	1.61	≤ 9.58	Pass
11ax-HE20	MCS0	36	5180	-1.91	-2.04	-2.20	-1.77	95.77	4.23	≤ 9.58	Pass
11ax-HE20	MCS0	44	5220	-2.43	-2.32	-2.39	-1.99	95.77	3.93	≤ 9.58	Pass
11ax-HE20	MCS0	48	5240	-2.21	-2.33	-2.43	-2.16	95.77	3.93	≤ 9.58	Pass
11ax-HE40	MCS0	38	5190	-4.42	-4.51	-4.54	-5.28	95.41	1.55	≤ 9.58	Pass
11ax-HE40	MCS0	46	5230	-5.01	-4.90	-5.09	-5.17	95.41	1.18	≤ 9.58	Pass
11ax-HE80	MCS0	42	5210	-7.82	-8.00	-8.26	-8.32	94.49	-1.83	≤ 9.58	Pass

Note: When EUT duty cycle < 98%, the total PSD (dBm/MHz) = $10 \cdot \log \{ 10^{(\text{Ant 1 PSD}/10)} + 10^{(\text{Ant 2 PSD}/10)} + 10^{(\text{Ant 3 PSD}/10)} + 10^{(\text{Ant 4 PSD}/10)} \}$ (dBm/MHz) + $10 \cdot \log(1/\text{duty cycle})$

Product	OmniAccess Stellar	Temperature	22 ~ 25°C
Test Engineer	David Lv	Relative Humidity	46 ~ 54%
Test Site	TR3	Test Date	2019/10/12 ~ 2020/03/02
Model No.	OAW-AP1361D	Test Item	Power Spectral Density

Test Mode	Data Rate/MCS	Channel No.	Freq. (MHz)	Ant 0 PSD (dBm/100kHz)	Ant 1 PSD (dBm/100kHz)	Ant 2 PSD (dBm/100kHz)	Ant 3 PSD (dBm/100kHz)	Duty Cycle (%)	Constant Factor (dB)	Total PSD (dBm/500kHz)	Limit (dBm/500kHz)	Result
11a	6Mbps	149	5745	0.16	1.07	0.88	0.67	92.14	6.99	14.07	≤ 22.58	Pass
11a	6Mbps	157	5785	1.28	2.06	1.47	1.50	92.14	6.99	14.95	≤ 22.58	Pass
11a	6Mbps	165	5825	0.95	0.43	0.37	0.30	92.14	6.99	13.89	≤ 22.58	Pass
11n-HT20	MCS0	149	5745	0.63	0.76	0.73	1.89	95.80	6.99	14.23	≤ 22.58	Pass
11n-HT20	MCS0	157	5785	0.57	1.10	1.39	0.84	95.80	6.99	14.18	≤ 22.58	Pass
11n-HT20	MCS0	165	5825	0.65	0.57	0.37	0.59	95.80	6.99	13.74	≤ 22.58	Pass
11n-HT40	MCS0	151	5755	-2.22	-2.10	-1.78	-2.06	93.70	6.99	11.26	≤ 22.58	Pass
11n-HT40	MCS0	159	5795	-3.15	-2.80	-2.97	-2.21	93.70	6.99	10.53	≤ 22.58	Pass
11ax-HE20	MCS0	149	5745	-0.91	-0.33	-0.26	-1.03	95.77	6.99	12.58	≤ 22.58	Pass
11ax-HE20	MCS0	157	5785	-0.29	-0.14	0.49	0.06	95.77	6.99	13.24	≤ 22.58	Pass
11ax-HE20	MCS0	165	5825	-0.94	-1.52	0.16	-0.70	95.77	6.99	12.49	≤ 22.58	Pass
11ax-HE40	MCS0	151	5755	-3.85	-3.08	-3.33	-3.27	95.41	6.99	9.84	≤ 22.58	Pass
11ax-HE40	MCS0	159	5795	-2.71	-4.10	-2.82	-3.01	95.41	6.99	10.09	≤ 22.58	Pass
11ax-HE80	MCS0	155	5775	-5.51	-6.04	-5.74	-5.97	94.49	6.99	7.45	≤ 22.58	Pass

Note: When EUT duty cycle < 98%, the total PSD (dBm/500KHz) = $10 \cdot \log \{ 10^{(\text{Ant 1 PSD}/10)} + 10^{(\text{Ant 2 PSD}/10)} + 10^{(\text{Ant 3 PSD}/10)} + 10^{(\text{Ant 4 PSD}/10)} \}$ (dBm/100KHz) + Constant Factor + $10 \cdot \log (1/\text{Duty Cycle})$.

Product	OmniAccess Stellar	Temperature	22 ~ 25°C
Test Engineer	David Lv	Relative Humidity	46 ~ 54%
Test Site	TR3	Test Date	2019/10/12 ~ 2020/03/02
Model No.	OAW-AP1361D - Scan Antenna	Test Item	Power Spectral Density

Test Mode	Data Rate/ MCS	Channel No.	Freq. (MHz)	AVGPSD (dBm / MHz)	Duty Cycle (%)	Total PSD (dBm/ MHz)	PSD Limit (dBm/MHz)	Result
11a	6Mbps	36	5180	-1.41	96.20	-1.24	≤ 13.60	Pass
11a	6Mbps	44	5220	-1.24	96.20	-1.07	≤ 13.60	Pass
11a	6Mbps	48	5240	-1.03	96.20	-0.86	≤ 13.60	Pass

Note 1: When EUT duty cycle < 98%, Total PSD (dBm/ MHz) = AVGPSD (dBm / MHz) + 10*log(1/duty cycle).

Note 2: The antenna gain of the OAW-AP1361D in the three models is the largest, so we calculate the PSD limit according to the maximum gain value as the most stringent requirement.

Product	OmniAccess Stellar	Temperature	22 ~ 25°C
Test Engineer	David Lv	Relative Humidity	46 ~ 54%
Test Site	TR3	Test Date	2019/10/12 ~ 2020/03/02
Model No.	OAW-AP1361D - Scan Antenna	Test Item	Power Spectral Density

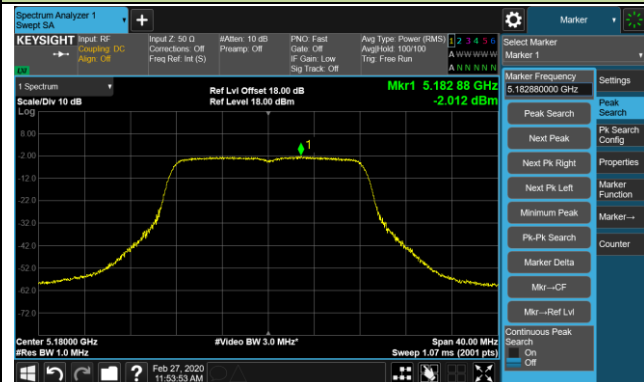
Test Mode	Data Rate/ MCS	Channel No.	Freq. (MHz)	AVGPSD (dBm / 100kHz)	Duty Cycle (%)	Constant Factor (dB)	Total AVGPSD (dBm / 500kHz)	Limit (dBm / 500kHz)	Result
11a	6Mbps	149	5745	-9.73	96.20	6.99	-2.57	≤ 26.60	Pass
11a	6Mbps	157	5785	-10.05	96.20	6.99	-2.89	≤ 26.60	Pass
11a	6Mbps	165	5825	-10.22	96.20	6.99	-3.06	≤ 26.60	Pass

Note 1: When EUT duty cycle < 98%, Total PSD (dBm/500kHz) = AVGPSD (dBm / 100kHz) + 10*log(1/duty cycle) + Constant Factor.

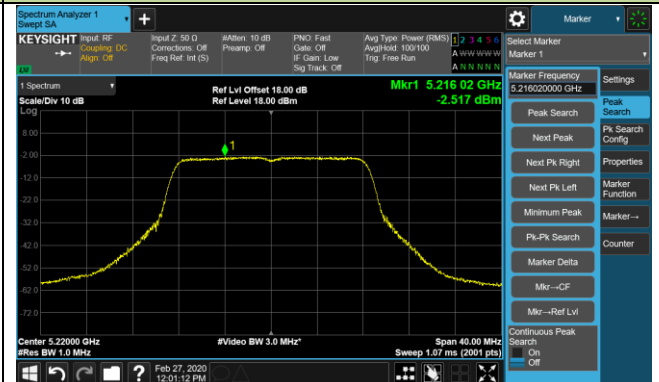
Note 2: The antenna gain of the OAW-AP1361D in the three models is the largest, so we calculate the PSD limit according to the maximum gain value as the most stringent requirement.

802.11a Power Spectral Density - Ant 0 / Ant 0 + 1 + 2 + 3

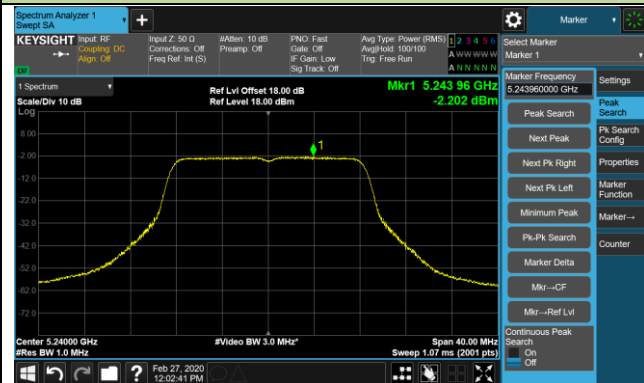
Channel 36 (5180MHz)



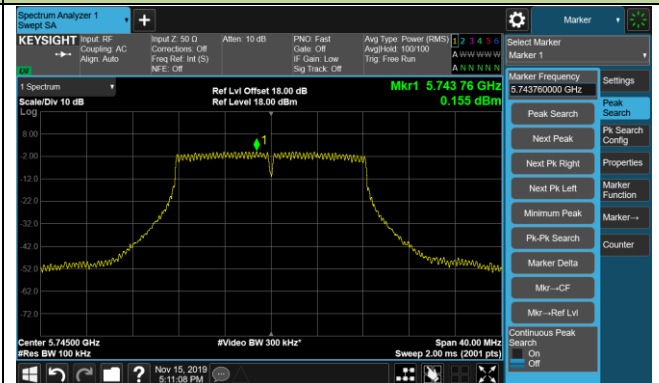
Channel 44 (5220MHz)



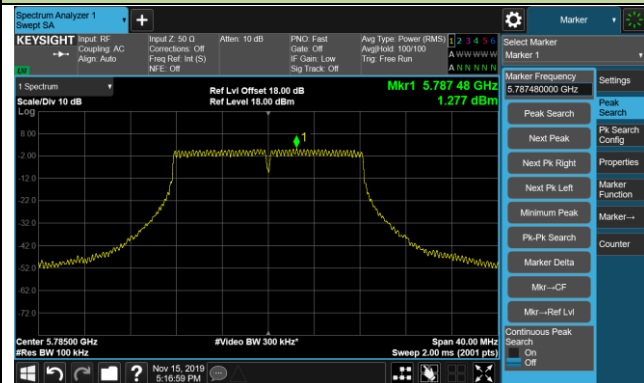
Channel 48 (5240MHz)



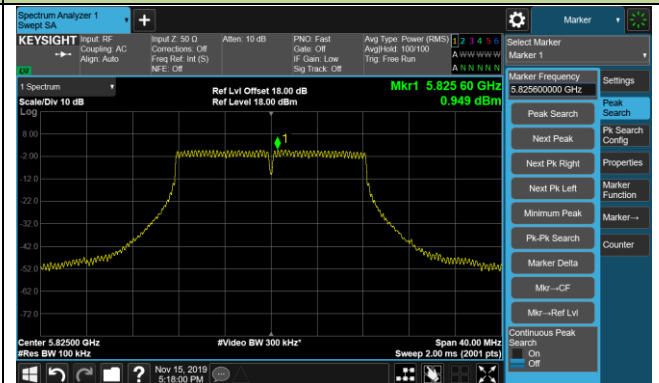
Channel 149 (5745MHz)



Channel 157 (5785MHz)

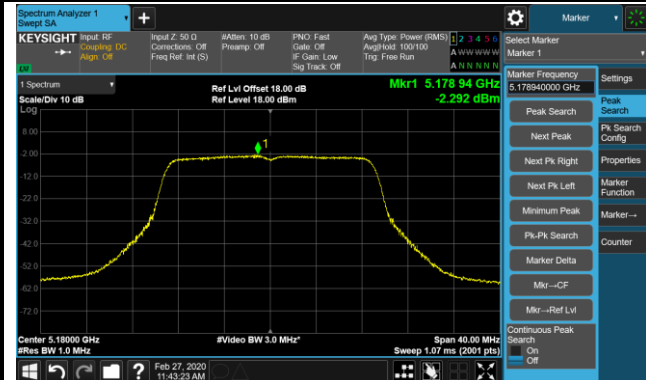


Channel 165 (5825MHz)

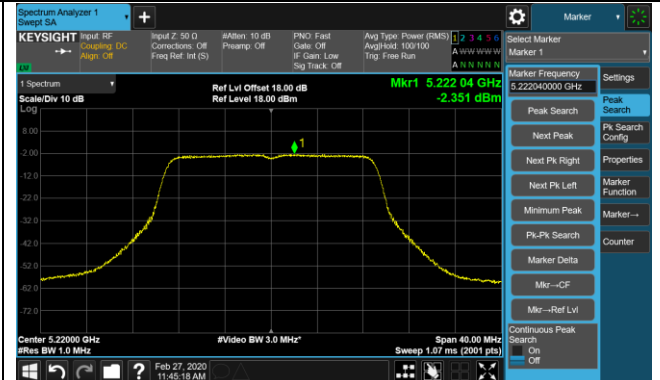


802.11n-HT20 Power Spectral Density - Ant 0 / Ant 0 + 1 + 2 + 3

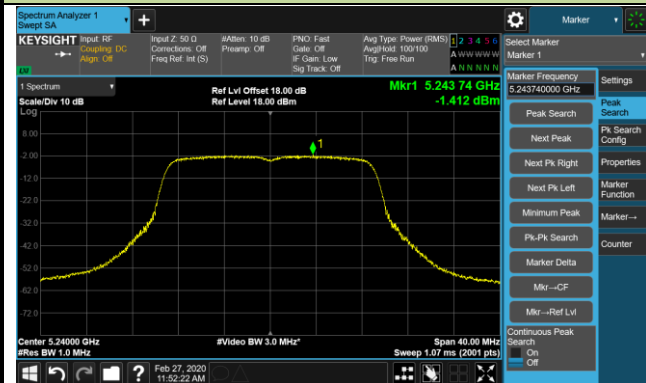
Channel 36 (5180MHz)



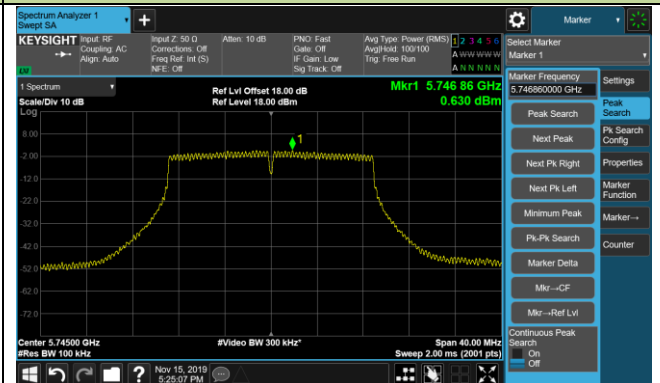
Channel 44 (5220MHz)



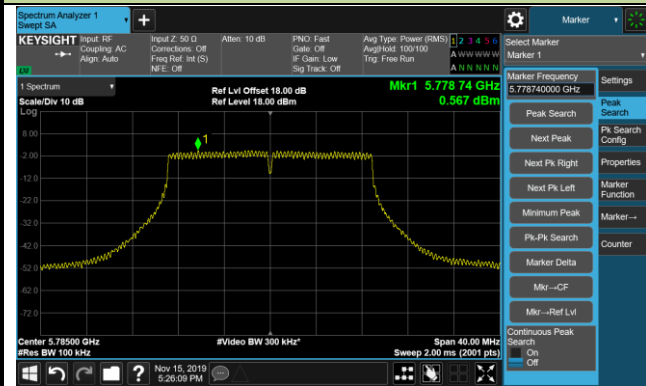
Channel 48 (5240MHz)



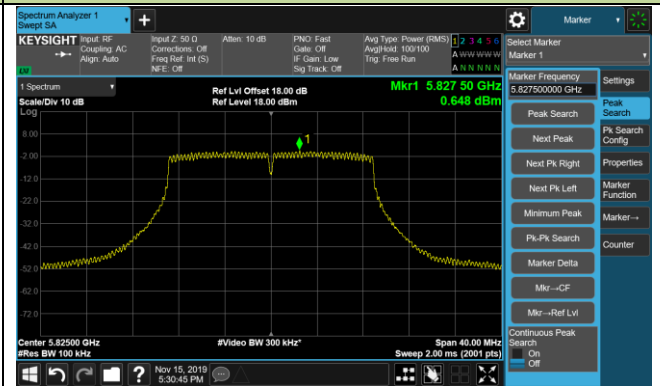
Channel 149 (5745MHz)



Channel 157 (5785MHz)

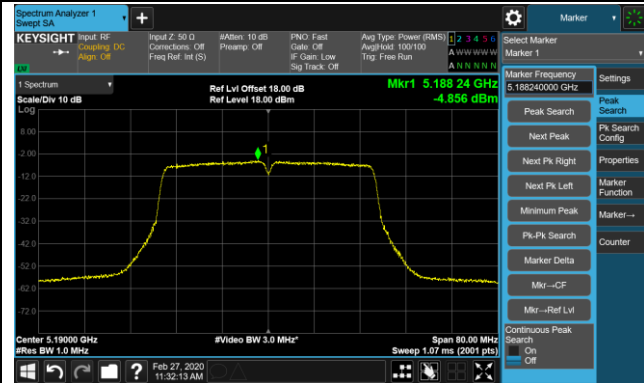


Channel 165 (5825MHz)

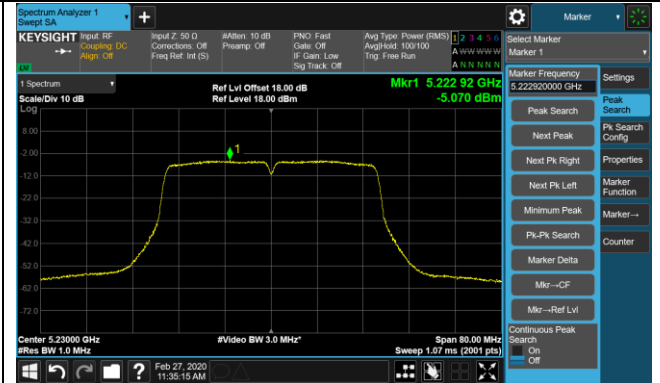


802.11n-HT40 Power Spectral Density - Ant 0 / Ant 0 + 1 + 2 + 3

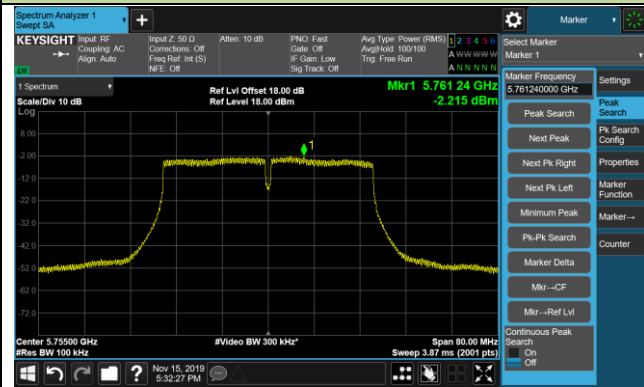
Channel 38 (5190MHz)



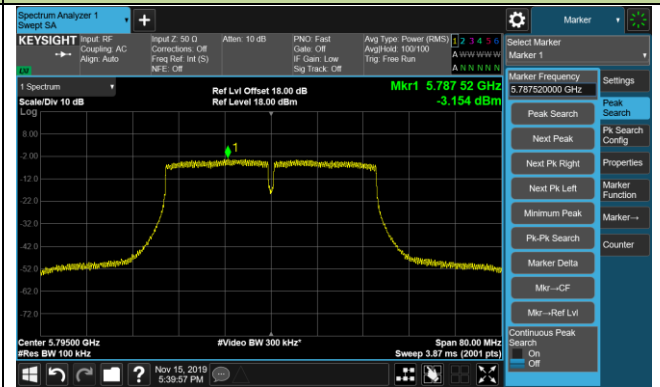
Channel 46 (5230MHz)



Channel 151 (5755MHz)

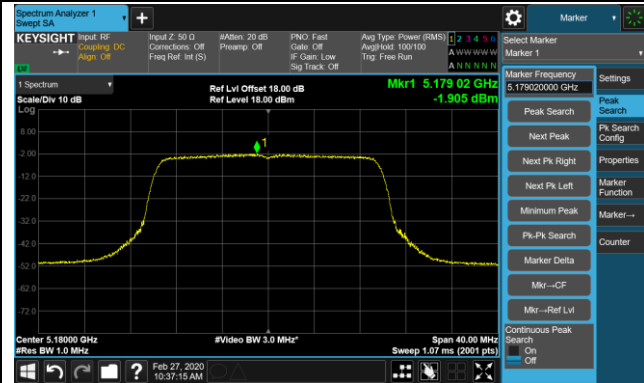


Channel 159 (5795MHz)

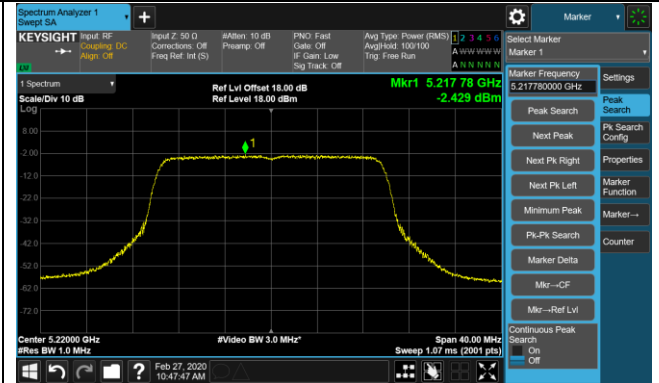


802.11ax-HE20 Power Spectral Density - Ant 0 / Ant 0 + 1 + 2 + 3

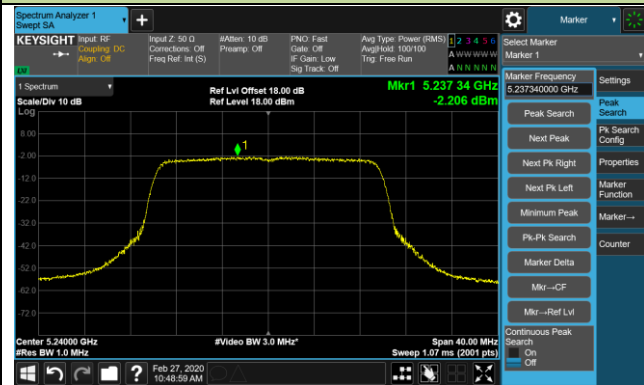
Channel 36 (5180MHz)



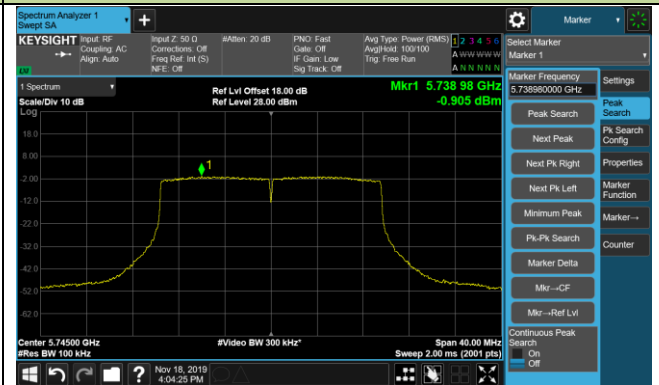
Channel 44 (5220MHz)



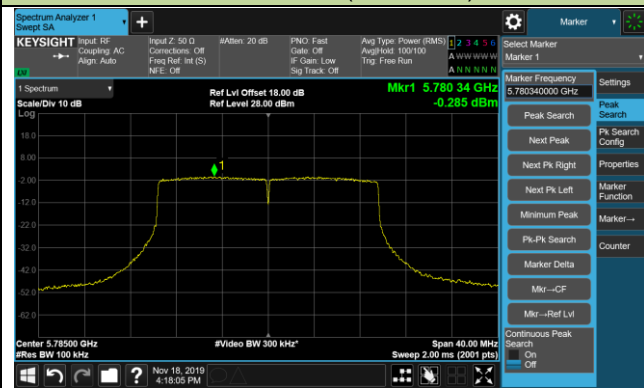
Channel 48 (5240MHz)



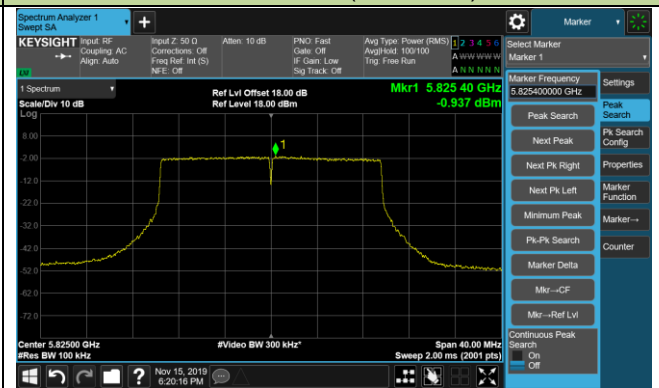
Channel 149 (5745MHz)



Channel 157 (5785MHz)

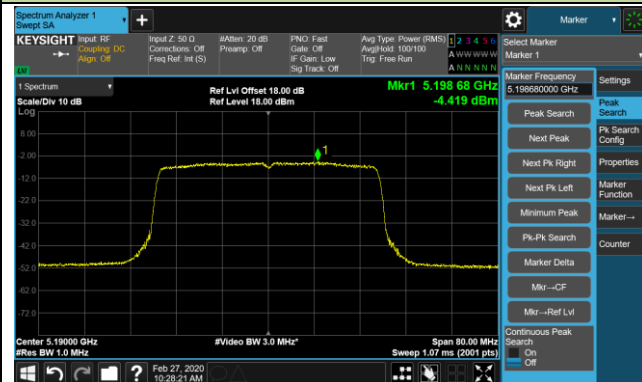


Channel 165 (5825MHz)

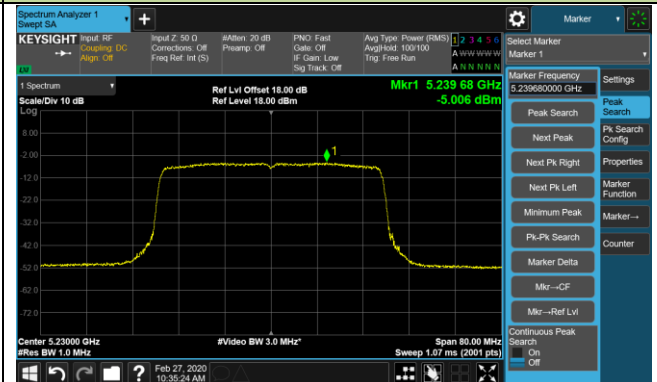


802.11ax-HE40 Power Spectral Density - Ant 0 / Ant 0 + 1 + 2 + 3

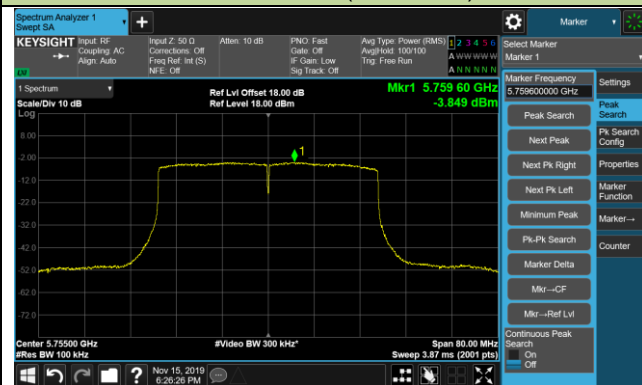
Channel 38 (5190MHz)



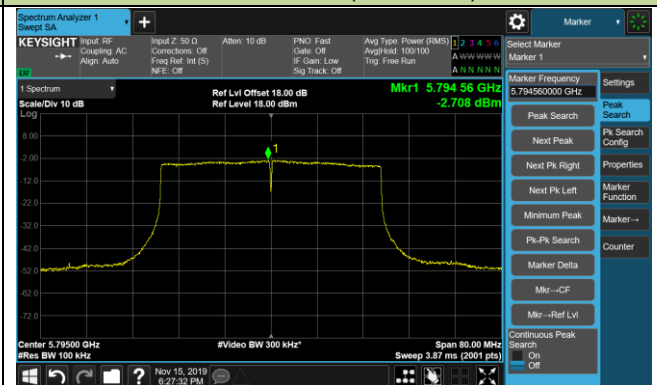
Channel 46 (5230MHz)



Channel 151 (5755MHz)

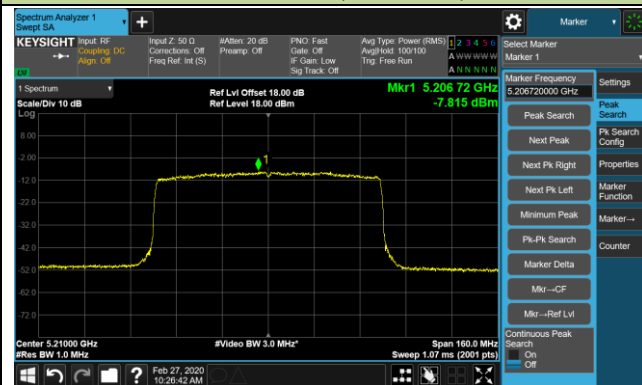


Channel 159 (5795MHz)

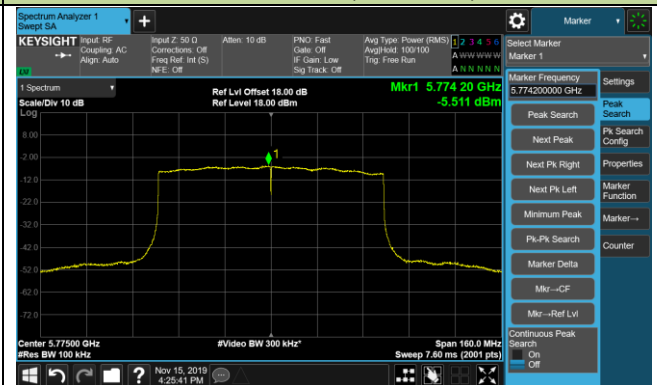


802.11ax-HE80 Power Spectral Density - Ant 0 / Ant 0 + 1 + 2 + 3

Channel 42 (5210MHz)

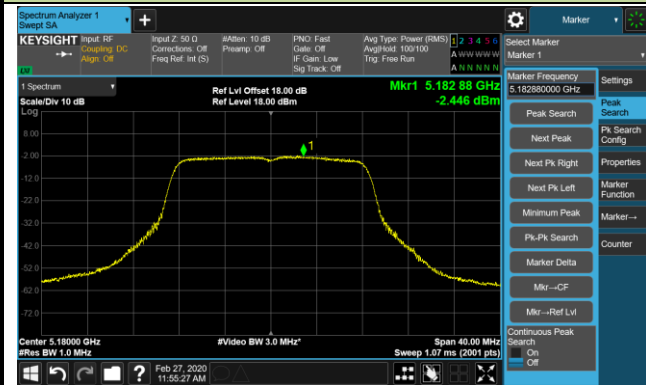


Channel 155 (5775MHz)

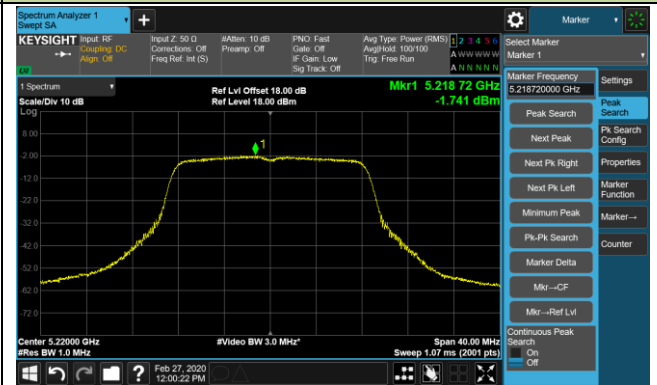


802.11a Power Spectral Density - Ant 1 / Ant 0 + 1 + 2 + 3

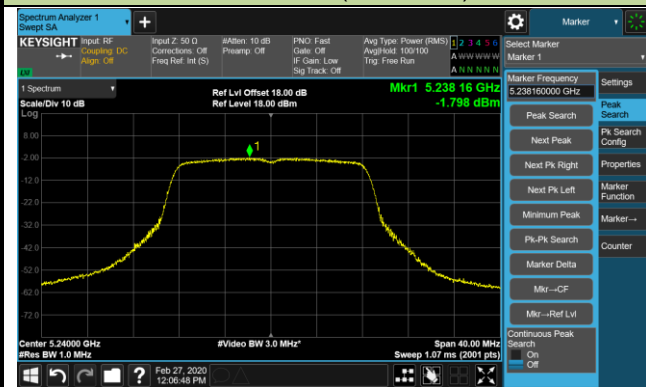
Channel 36 (5180MHz)



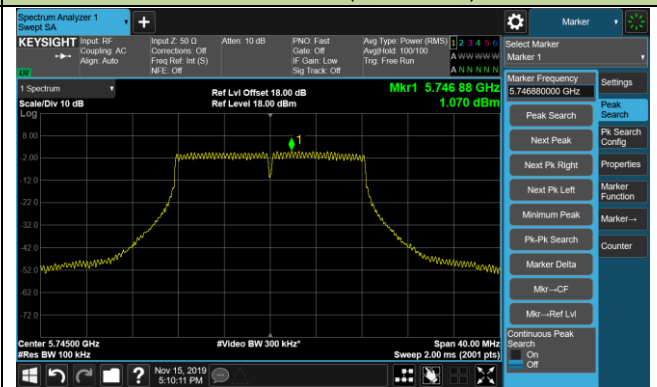
Channel 44 (5220MHz)



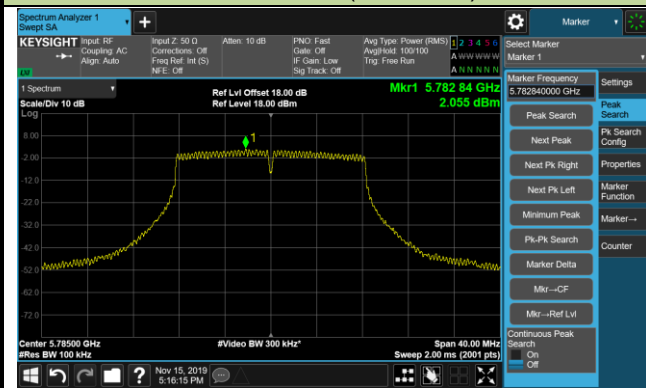
Channel 48 (5240MHz)



Channel 149 (5745MHz)



Channel 157 (5785MHz)



Channel 165 (5825MHz)

