

6.2. Average Power Output

Mode	Duty cycle	Duty cycle correction Factor (dB)
802.11a	0.97	0.14
802.11n HT20	0.97	0.15
802.11n HT40	0.97	0.29
802.11ac VHT20	0.97	0.15
802.11ac VHT40	0.94	0.28
802.11ac VHT80	0.88	0.56
Note: when Duty cycle ≥ 0.98 , Duty cycle correction Factor not required.		

Power Index								
Channel	802.11a	802.11n HT20	802.11ac VHT20	Channel	802.11n HT40	802.11ac VHT40	Channel	802.11ac VHT80
CH36	15.5	15	12	CH38	14	12	CH42	12
CH40	13	12	12	CH46	14	12	/	/
CH48	15.5	13	12	/	/	/	/	/
CH52	15.5	15	12	CH54	14	12	CH58	12
CH60	15.5	15	12	CH62	14	12	/	/
CH64	15.5	15	12	/	/	/	/	/
CH100	15.5	15	12	CH102	14	12	CH106	12
CH140	15.5	15	12	CH134	14	12	CH135	12
CH144	15.5	15	12	CH142	14	12	/	/
CH149	15.5	15	12	CH151	14	12	CH155	12
CH157	15.5	15	12	CH159	14	12	/	/
CH165	15.5	15	12	/	/	/	/	/

Test Mode		Channel/ Frequency (MHz)	B=26 dB bandwidth (MHz)	Limit 11 dBm + 10 log B (dBm)	Final Limit (dBm)
U-NII-2A	802.11a	52/5260	20.17	24.05	24.00
		60/5300	19.94	24.00	24.00
		64/5320	20.06	24.02	24.00
	802.11n HT20	52/5260	20.24	24.06	24.00
		60/5300	20.18	24.05	24.00
		64/5320	20.45	24.11	24.00
	802.11n HT40	54/5270	41.22	27.15	24.00
		62/5310	41.34	27.16	24.00
	802.11ac VHT20	52/5260	20.32	24.08	24.00
		60/5300	20.50	24.12	24.00
		64/5320	20.40	24.10	24.00
	802.11ac VHT40	54/5270	43.39	27.37	24.00
		62/5310	39.11	26.92	24.00
U-NII-2C	802.11a	58/5290	80.64	30.07	24.00
		100/5500	19.99	24.01	24.00
		140/5700	19.97	24.00	24.00
	802.11n HT20	144/5720	19.95	24.00	24.00
		100/5500	20.27	24.07	24.00
		140/5700	20.22	24.06	24.00
	802.11n HT40	144/5720	20.34	24.08	24.00
		102/5510	40.54	27.08	24.00
		134/5670	41.31	27.16	24.00
	802.11ac VHT20	142/5710	41.50	27.18	24.00
		100/5500	20.33	24.08	24.00
		140/5700	20.22	24.06	24.00
	802.11ac VHT40	144/5720	20.14	24.04	24.00
		102/5510	39.57	26.97	24.00
		134/5670	42.18	27.25	24.00
	802.11ac VHT80	142/5710	41.27	27.16	24.00
		106/5530	80.34	30.05	24.00
		138/5690	79.88	30.02	24.00

Note: 250mW=24dBm

U-NII-1

Test Mode	Channel/ Frequency (MHz)	Average Power Measured (dBm)	Average Power with duty factor (dBm)	Limit (dBm)	Conclusion
802.11a	36/5180	12.27	12.41	24	PASS
	40/5200	9.58	9.72	24	PASS
	48/5240	11.90	12.04	24	PASS
802.11n HT20	36/5180	11.79	11.94	24	PASS
	40/5200	8.52	8.67	24	PASS
	48/5240	9.20	9.35	24	PASS
802.11n HT40	38/5190	10.43	10.72	24	PASS
	46/5230	10.04	10.33	24	PASS
802.11ac VHT20	36/5180	8.56	8.71	24	PASS
	40/5200	8.52	8.67	24	PASS
	48/5240	8.23	8.38	24	PASS
802.11ac VHT40	38/5190	8.44	8.72	24	PASS
	46/5230	8.04	8.32	24	PASS
802.11ac VHT80	42/5210	7.93	8.49	24	PASS

Note: Average Power with duty factor = Average Power Measured +Duty cycle correction factor

U-NII-2A

Test Mode	Channel/ Frequency (MHz)	Average Power Measured (dBm)	Average Power with duty factor (dBm)	Limit (dBm)	Conclusion
802.11a	52/5260	11.74	11.88	24	PASS
	60/5300	11.79	11.93	24	PASS
	64/5320	11.71	11.85	24	PASS
802.11n HT20	52/5260	11.15	11.30	24	PASS
	60/5300	10.49	10.64	24	PASS
	64/5320	10.40	10.55	24	PASS
802.11n HT40	54/5270	9.40	9.69	24	PASS
	62/5310	9.31	9.60	24	PASS
802.11ac VHT20	52/5260	7.60	7.75	24	PASS
	60/5300	7.43	7.58	24	PASS
	64/5320	7.37	7.52	24	PASS
802.11ac VHT40	54/5270	7.35	7.63	24	PASS
	62/5310	7.31	7.59	24	PASS
802.11ac VHT80	58/5290	7.13	7.69	24	PASS

Note: Average Power with duty factor = Average Power Measured +Duty cycle correction factor

U-NII-2C

Test Mode	Channel/ Frequency (MHz)	Average Power Measured (dBm)	Average Power with duty factor (dBm)	Limit (dBm)	Conclusion
802.11a	100/5500	12.21	12.35	24	PASS
	140/5700	12.59	12.73	24	PASS
	144/5720	11.90	12.04	24	PASS
802.11n HT20	100/5500	11.72	11.87	24	PASS
	140/5700	11.95	12.10	24	PASS
	144/5720	11.30	11.45	24	PASS
802.11n HT40	102/5510	10.80	11.09	24	PASS
	134/5670	11.08	11.37	24	PASS
	142/5710	10.51	10.80	24	PASS
802.11ac VHT20	100/5500	8.69	8.84	24	PASS
	140/5700	9.05	9.20	24	PASS
	144/5720	8.23	8.38	24	PASS
802.11ac VHT40	102/5510	8.94	9.22	24	PASS
	134/5670	9.03	9.31	24	PASS
	142/5710	8.49	8.77	24	PASS
802.11ac VHT80	106/5530	8.81	9.37	24	PASS
	138/5690	7.82	8.38	24	PASS
Note: Average Power with duty factor = Average Power Measured +Duty cycle correction factor					

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Test Mode	Channel/ Frequency (MHz)	Average Power Measured (dBm)	Average Power with duty factor (dBm)	Limit (dBm)	Conclusion
802.11a	144/5720	4.94	5.08	30	PASS
	149/5745	13.01	13.15	30	PASS
	157/5785	12.62	12.76	30	PASS
	165/5825	12.36	12.50	30	PASS
802.11n HT20	144/5720	4.63	4.78	30	PASS
	149/5745	12.41	12.56	30	PASS
	157/5785	11.92	12.07	30	PASS
	165/5825	11.83	11.98	30	PASS
802.11n HT40	142/5710	-1.23	-0.94	30	PASS
	151/5755	11.15	11.44	30	PASS
	159/5795	10.74	11.03	30	PASS
802.11ac VHT20	144/5720	1.57	1.72	30	PASS
	149/5745	9.36	9.51	30	PASS
	157/5785	8.92	9.07	30	PASS
	165/5825	8.88	9.03	30	PASS
802.11ac VHT40	142/5710	-3.25	-2.97	30	PASS
	151/5755	9.12	9.40	30	PASS
	159/5795	8.73	9.01	30	PASS
802.11ac VHT80	138/5690	-6.27	-5.71	30	PASS
	155/5775	8.32	8.88	30	PASS
Note: Average Power with duty factor = Average Power Measured +Duty cycle correction factor					

6.3. Frequency Stability

Voltage (V)	Temperature (°C)	U-NII-1 Test Results			
		5200MHz			
		1min	2min	5min	10min
7.7	-30	5200.006140	5200.003807	5199.995617	5199.989801
7.7	-20	5200.012490	5199.999868	5199.986251	5199.989177
7.7	-10	5200.014085	5199.996139	5199.976911	5199.982663
7.7	0	5200.011351	5199.990961	5199.982902	5199.988573
7.7	10	5200.005955	5199.989504	5199.973568	5199.985002
7.7	20	5199.998675	5199.983053	5199.969263	5199.982877
7.7	30	5199.998205	5199.973310	5199.964625	5199.978179
7.7	40	5199.997891	5199.971980	5199.963881	5199.976608
7.7	50	5199.997191	5199.969543	5199.954433	5199.968347
6.0	20	5199.992106	5199.965934	5199.952517	5199.959192
8.8	20	5199.987421	5199.958761	5199.948212	5199.953020
Max. ΔMHz		-0.012579	-0.041239	-0.051788	-0.046980
PPM		-2.419038	-7.930577	-9.959231	-9.034615

Voltage (V)	Temperature (°C)	U-NII-2A Test Results			
		5300MHz			
		1min	2min	5min	10min
7.7	-30	5300.007786	5299.999547	5299.994490	5299.986950
7.7	-20	5300.003946	5299.990057	5299.991539	5299.985926
7.7	-10	5299.997835	5299.980527	5299.986776	5299.978693
7.7	0	5300.001186	5299.989664	5299.990042	5299.985023
7.7	10	5299.997712	5299.987577	5299.982746	5299.981625
7.7	20	5299.992143	5299.977829	5299.975450	5299.979756
7.7	30	5299.986828	5299.974326	5299.971548	5299.978971
7.7	40	5299.981933	5299.965432	5299.962723	5299.971326
7.7	50	5299.976530	5299.958948	5299.954385	5299.964005
6.0	20	5299.973283	5299.958499	5299.944858	5299.954938
8.8	20	5299.963705	5299.953470	5299.939183	5299.954613
Max. ΔMHz		-0.036295	-0.046530	-0.060817	-0.045387
PPM		-6.848113	-8.779245	-11.474906	-8.563585

Voltage (V)	Temperature (°C)	U-NII-2C Test Results			
		5580MHz			
		1min	2min	5min	10min
7.7	-30	5580.002381	5579.995529	5579.995197	5579.987315
7.7	-20	5579.997913	5579.987977	5579.986470	5579.978047
7.7	-10	5579.997567	5579.985074	5579.979804	5579.969099
7.7	0	5579.989871	5579.983938	5579.981585	5579.975671
7.7	10	5579.988082	5579.976003	5579.981418	5579.971923
7.7	20	5579.987086	5579.966816	5579.971834	5579.966992
7.7	30	5579.983372	5579.962983	5579.966365	5579.960569
7.7	40	5579.977421	5579.962290	5579.960447	5579.950680
7.7	50	5579.976850	5579.952871	5579.952809	5579.946145
6.0	20	5579.975967	5579.946471	5579.945203	5579.937918
8.8	20	5579.974729	5579.938904	5579.940698	5579.937767
Max. ΔMHz		-0.025271	-0.061096	-0.059302	-0.062233
PPM		-4.528853	-10.949104	-10.627599	-11.152867

Voltage (V)	Temperature (°C)	U-NII-3 Test Results			
		5785MHz			
		1min	2min	5min	10min
7.7	-30	5785.000183	5784.993785	5784.987477	5784.982278
7.7	-20	5784.998718	5784.989190	5784.984007	5784.972967
7.7	-10	5784.994559	5784.984743	5784.976005	5784.966112
7.7	0	5784.998052	5784.979954	5784.979378	5784.965617
7.7	10	5784.993119	5784.972956	5784.970096	5784.957447
7.7	20	5784.983184	5784.966818	5784.968345	5784.956479
7.7	30	5784.974819	5784.961895	5784.962127	5784.948410
7.7	40	5784.966564	5784.957743	5784.954085	5784.938890
7.7	50	5784.965082	5784.953778	5784.945787	5784.935177
6.0	20	5784.957658	5784.952777	5784.941895	5784.925202
8.8	20	5784.954400	5784.945150	5784.939855	5784.921999
Max. ΔMHz		-0.045600	-0.054850	-0.060145	-0.078001
PPM		-7.882455	-9.481417	-10.396716	-13.483319

6.4. Power Spectral Density

U-NII-1

Mode	Channel/ Frequency (MHz)	Read Value (dBm /MHz)	Power Spectral Density (dBm /MHz)	Limit (dBm /MHz)	Conclusion
802.11a	36/5180	3.04	3.18	11	PASS
	40/5200	0.34	0.48	11	PASS
	48/5240	2.38	2.52	11	PASS
802.11n HT20	36/5180	2.10	2.25	11	PASS
	40/5200	-0.93	-0.78	11	PASS
	48/5240	-0.58	-0.43	11	PASS
802.11n HT40	38/5190	-2.11	-1.82	11	PASS
	46/5230	-2.61	-2.32	11	PASS
802.11ac VHT20	36/5180	-1.02	-0.87	11	PASS
	40/5200	-1.07	-0.92	11	PASS
	48/5240	-1.42	-1.27	11	PASS
802.11ac VHT40	38/5190	-4.11	-3.83	11	PASS
	46/5230	-4.61	-4.33	11	PASS
802.11ac VHT80	42/5210	-7.58	-7.02	11	PASS
Note: Power Spectral Density =Read Value+Duty cycle correction factor					

U-NII-2A

Mode	Channel /Frequency (MHz)	Read Value (dBm /MHz)	Power Spectral Density (dBm /MHz)	Limit (dBm /MHz)	Conclusion
802.11a	52/5260	2.34	2.48	11	PASS
	60/5300	2.19	2.33	11	PASS
	64/5320	2.07	2.21	11	PASS
802.11n HT20	52/5260	1.40	1.55	11	PASS
	60/5300	0.88	1.03	11	PASS
	64/5320	0.85	1.00	11	PASS
802.11n HT40	54/5270	-3.11	-2.82	11	PASS
	62/5310	-3.50	-3.21	11	PASS
802.11ac VHT20	52/5260	-2.15	-2.00	11	PASS
	60/5300	-2.30	-2.15	11	PASS
	64/5320	-2.34	-2.19	11	PASS
802.11ac VHT40	54/5270	-5.11	-4.83	11	PASS
	62/5310	-5.38	-5.10	11	PASS
802.11ac VHT80	58/5290	-8.58	-8.02	11	PASS
Note: Power Spectral Density =Read Value+Duty cycle correction factor					

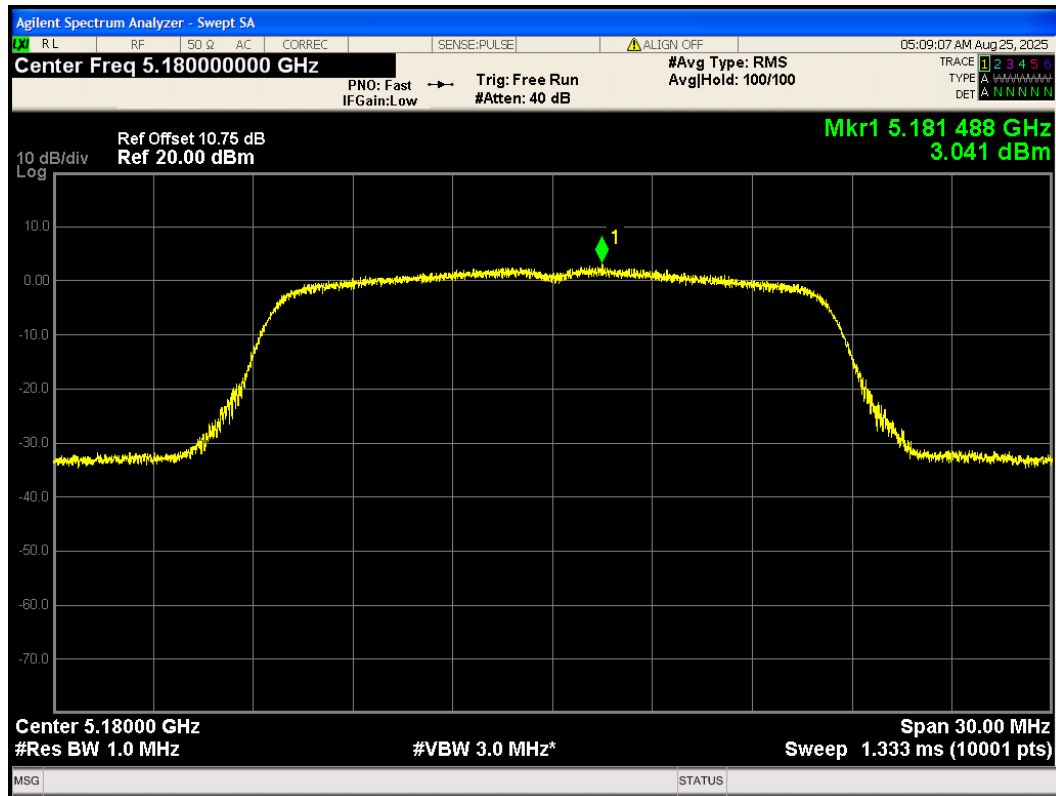
U-NII-2C

Mode	Channel /Frequency (MHz)	Read Value (dBm /MHz)	Power Spectral Density (dBm /MHz)	Limit (dBm /MHz)	Conclusion
802.11a	100/5500	3.09	3.23	11	PASS
	140/5700	3.45	3.59	11	PASS
	144/5720	3.01	3.15	11	PASS
802.11n HT20	100/5500	2.05	2.20	11	PASS
	140/5700	2.43	2.58	11	PASS
	144/5720	2.13	2.28	11	PASS
802.11n HT40	102/5510	-1.78	-1.49	11	PASS
	134/5670	-1.49	-1.20	11	PASS
	142/5710	-1.97	-1.68	11	PASS
802.11ac VHT20	100/5500	-0.91	-0.76	11	PASS
	140/5700	-0.62	-0.47	11	PASS
	144/5720	-0.88	-0.73	11	PASS
802.11ac VHT40	102/5510	-3.73	-3.45	11	PASS
	134/5670	-3.53	-3.25	11	PASS
	142/5710	-3.78	-3.50	11	PASS
802.11ac VHT80	106/5530	-7.13	-6.57	11	PASS
	138/5690	-7.59	-7.03	11	PASS
Note: Power Spectral Density =Read Value+Duty cycle correction factor					

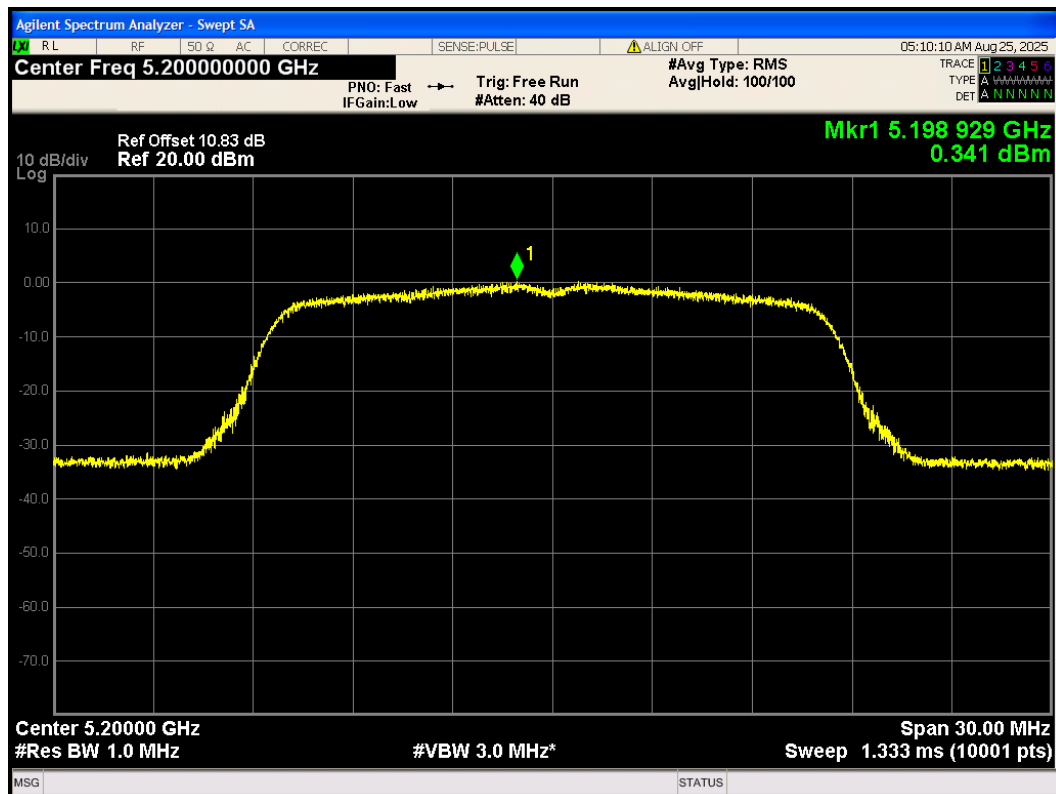
U-NII-3

Mode	Channel /Frequency (MHz)	Read Value (dBm/470kHz)	Power Spectral Density (dBm/500kHz)	Limit (dBm/500kHz)	Conclusion
802.11a	144/5720	-1.66	-1.25	30	PASS
	149/5745	0.27	0.68	30	PASS
	157/5785	-0.04	0.37	30	PASS
	165/5825	-0.47	-0.06	30	PASS
802.11n HT20	144/5720	-2.44	-2.02	30	PASS
	149/5745	-0.41	0.01	30	PASS
	157/5785	-1.16	-0.74	30	PASS
	165/5825	-1.11	-0.69	30	PASS
802.11n HT40	142/5710	-8.27	-7.71	30	PASS
	151/5755	-5.05	-4.49	30	PASS
	159/5795	-5.33	-4.77	30	PASS
802.11ac VHT20	144/5720	-5.48	-5.06	30	PASS
	149/5745	-3.57	-3.15	30	PASS
	157/5785	-3.84	-3.42	30	PASS
	165/5825	-4.39	-3.97	30	PASS
802.11ac VHT40	142/5710	-10.51	-9.96	30	PASS
	151/5755	-7.02	-6.47	30	PASS
	159/5795	-7.47	-6.92	30	PASS
802.11ac VHT80	138/5690	-13.99	-13.16	30	PASS
	155/5775	-10.99	-10.16	30	PASS
Note: PSD=Read Value+Duty cycle correction factor +10*log(500/470)					

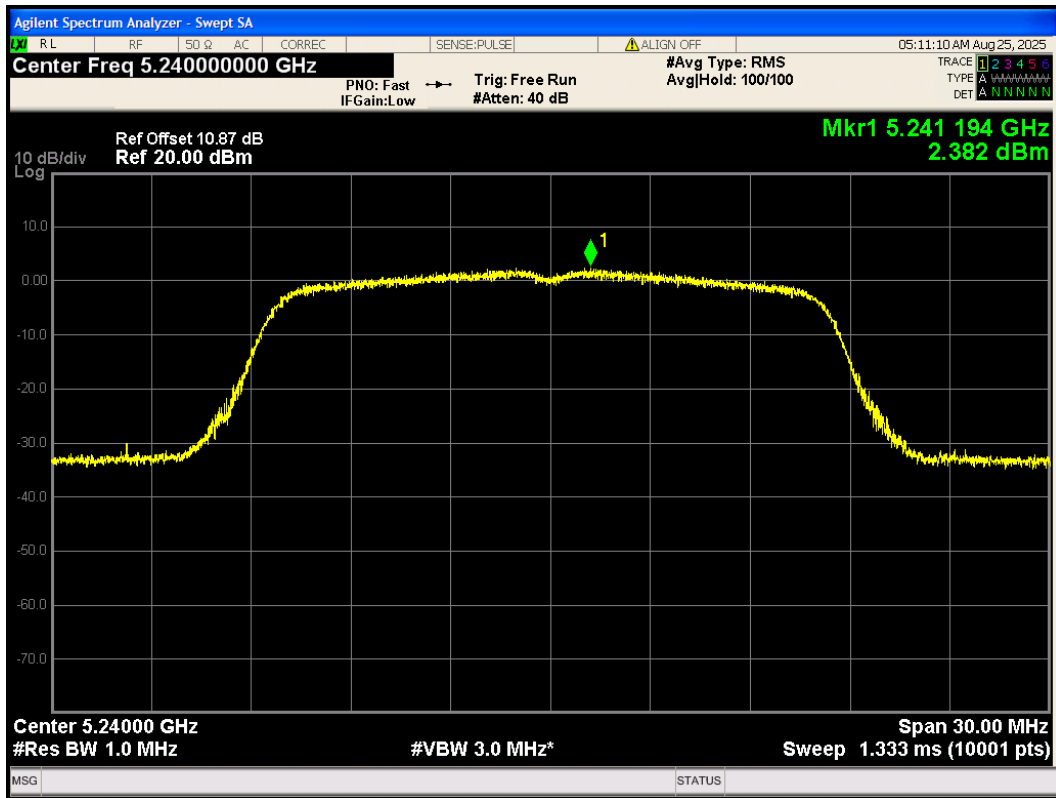
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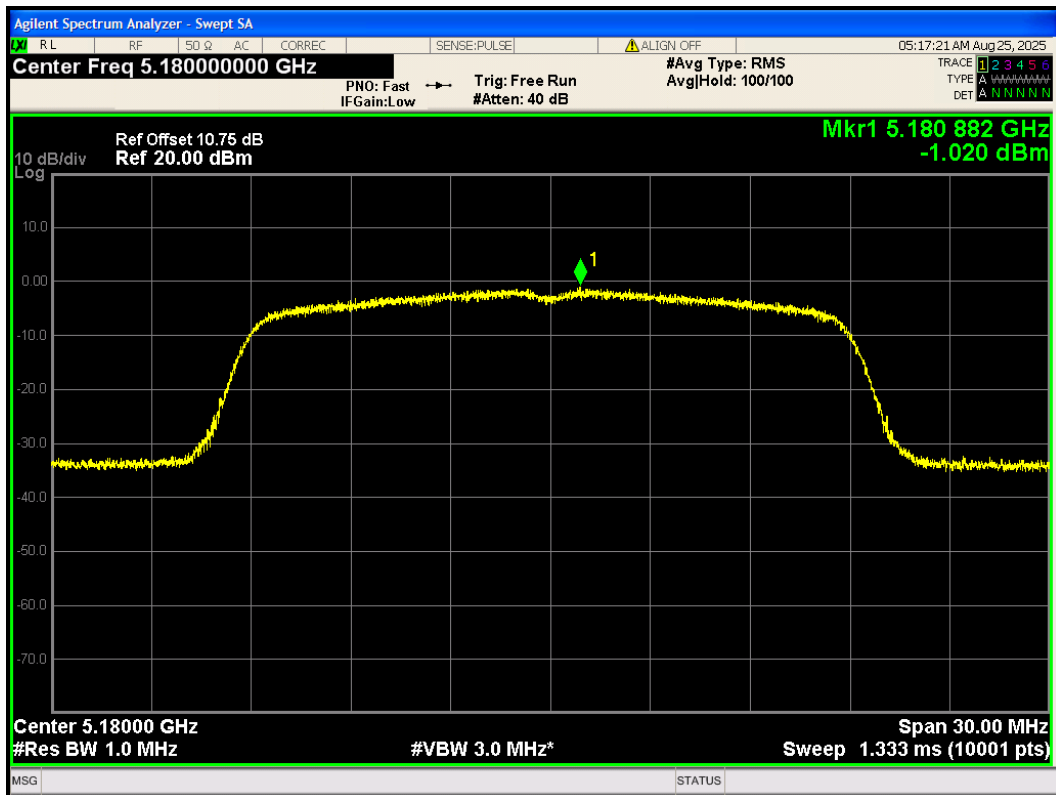
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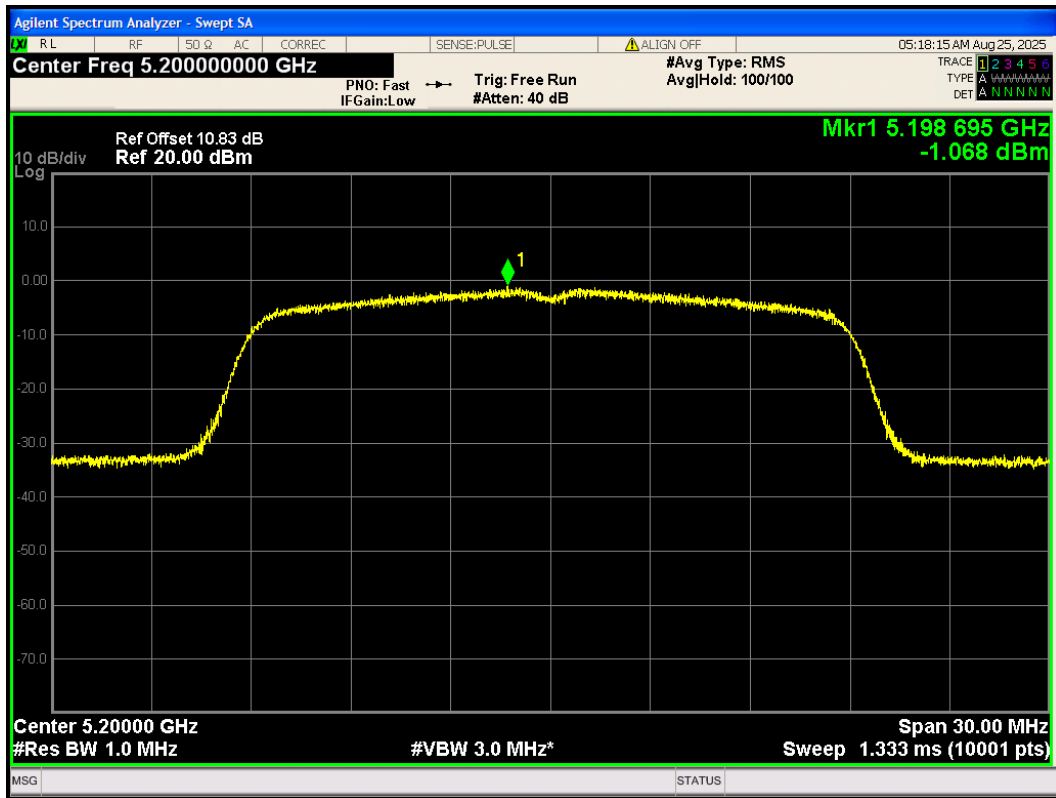
PSD 802.11a 5240MHz



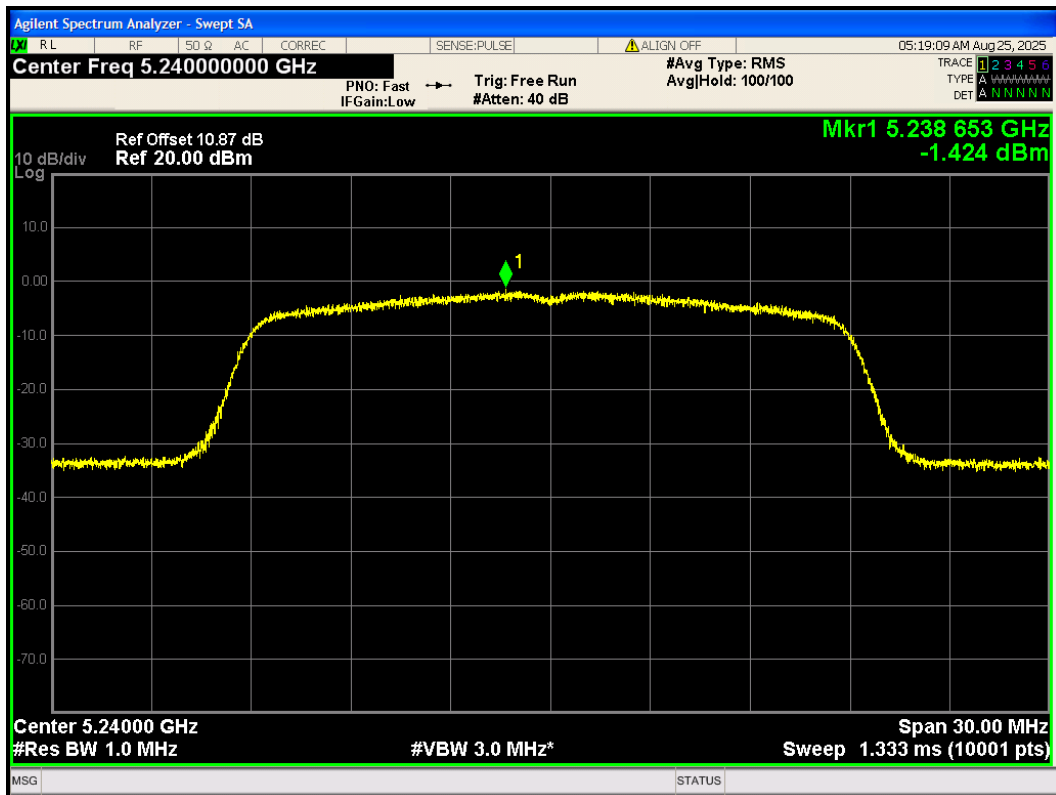
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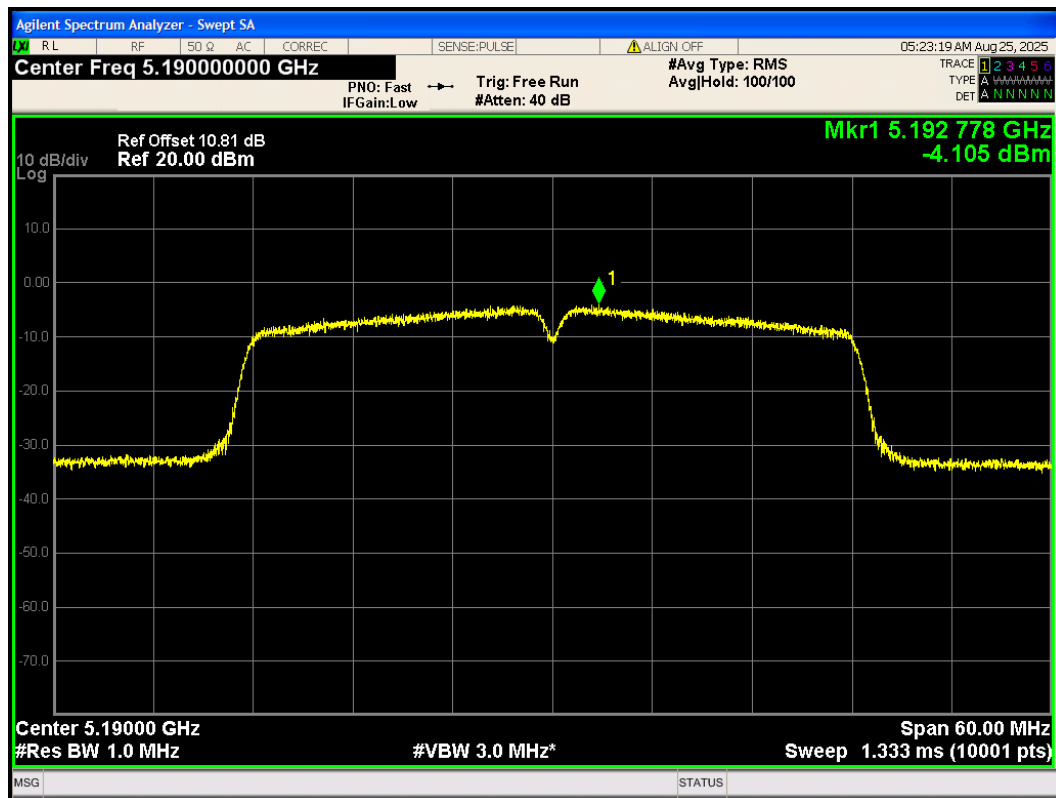
PSD 802.11ac(VHT20) 5200MHz



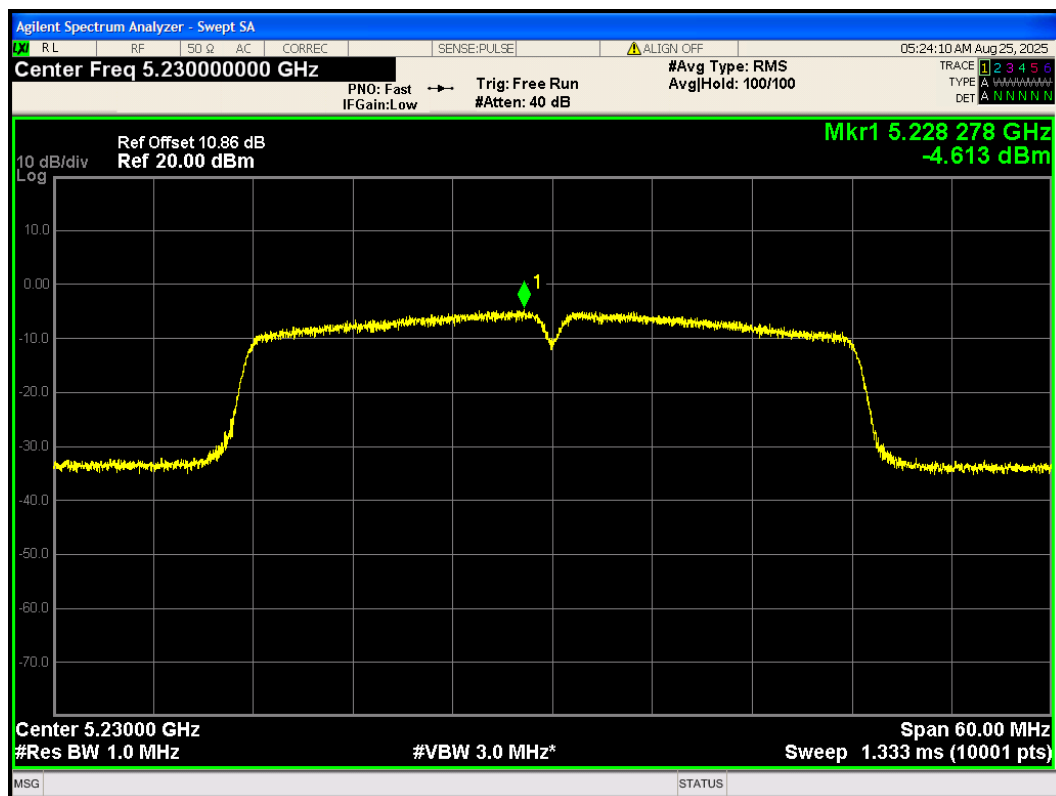
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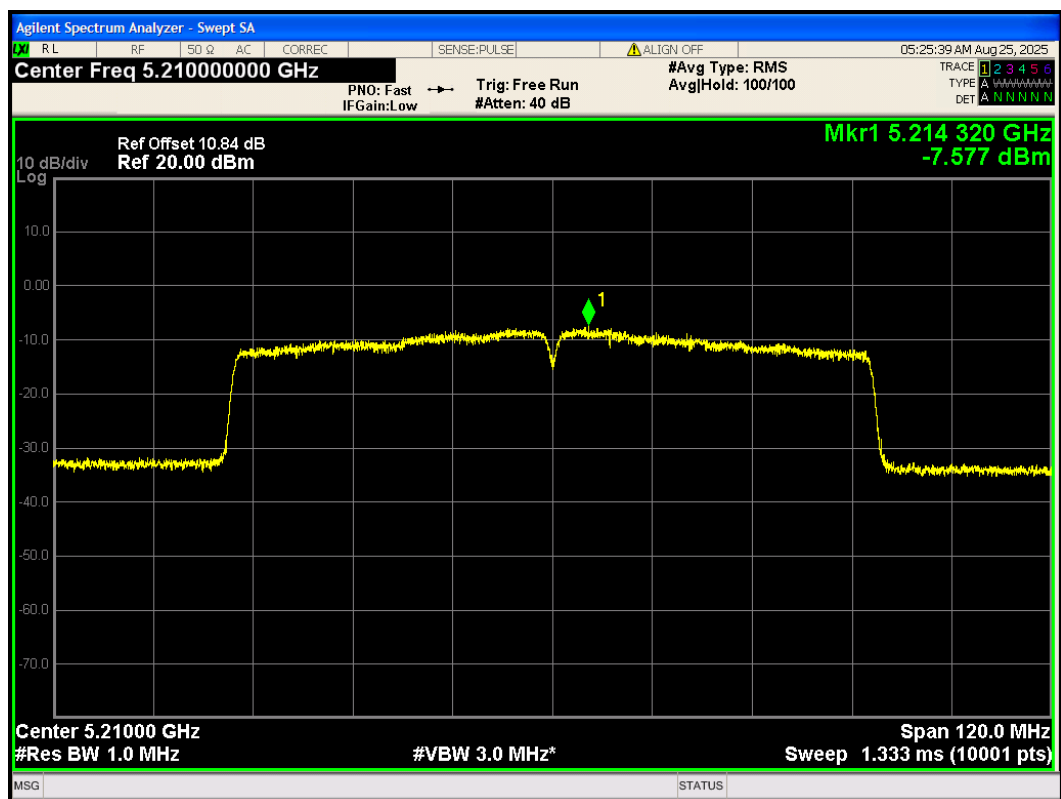
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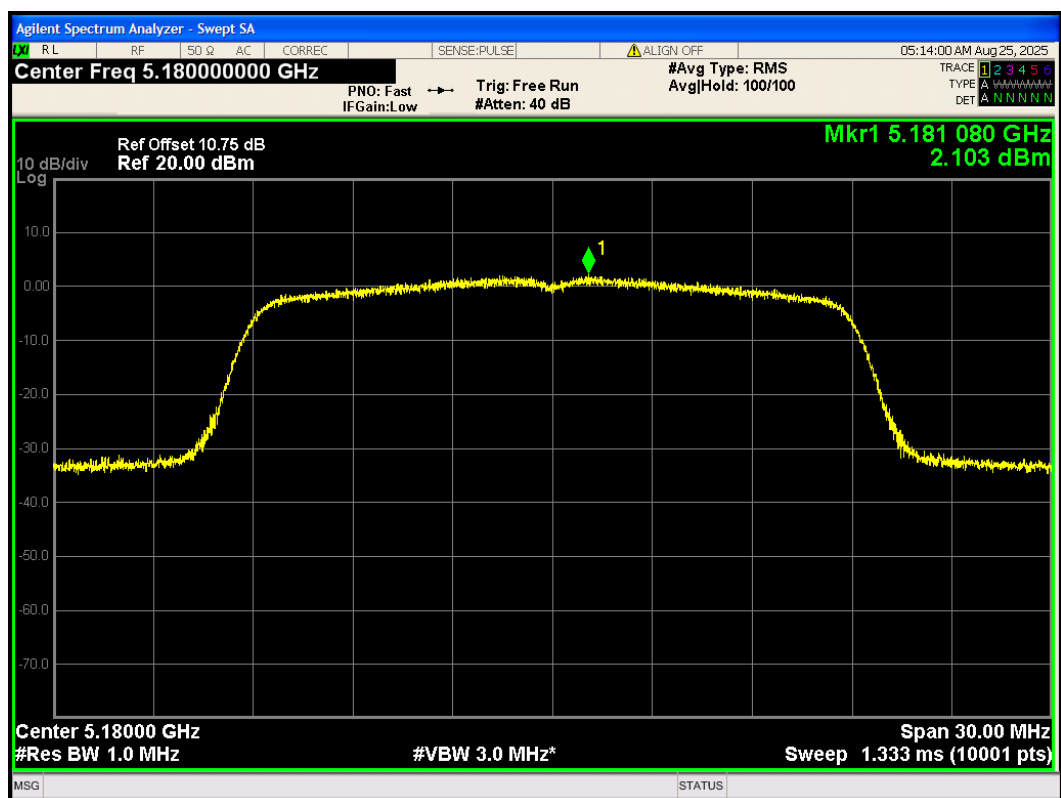
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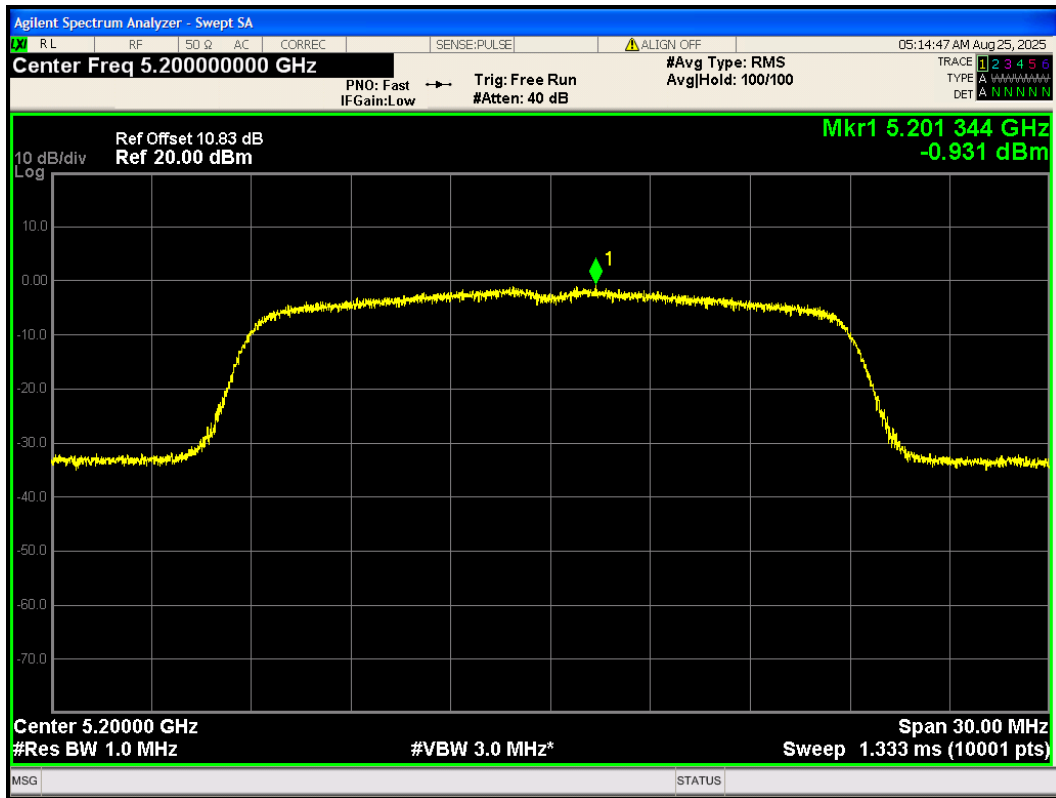
PSD 802.11ac(VHT80) 5210MHz



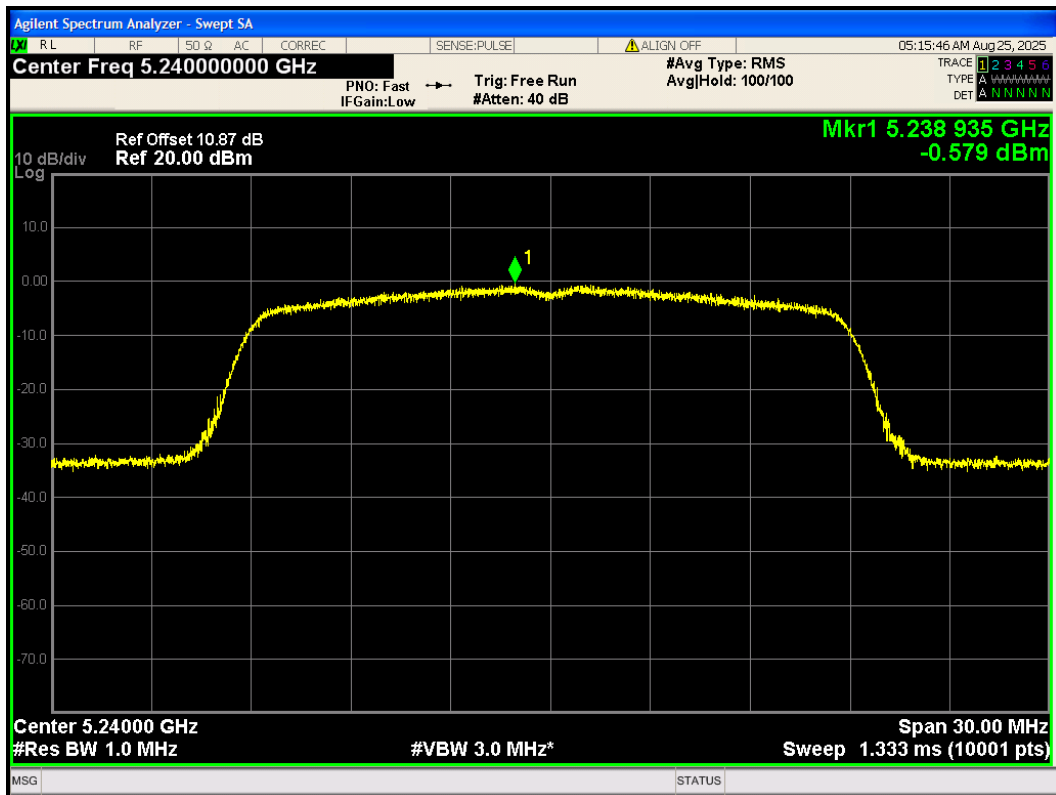
PSD 802.11n(HT20) 5180MHz



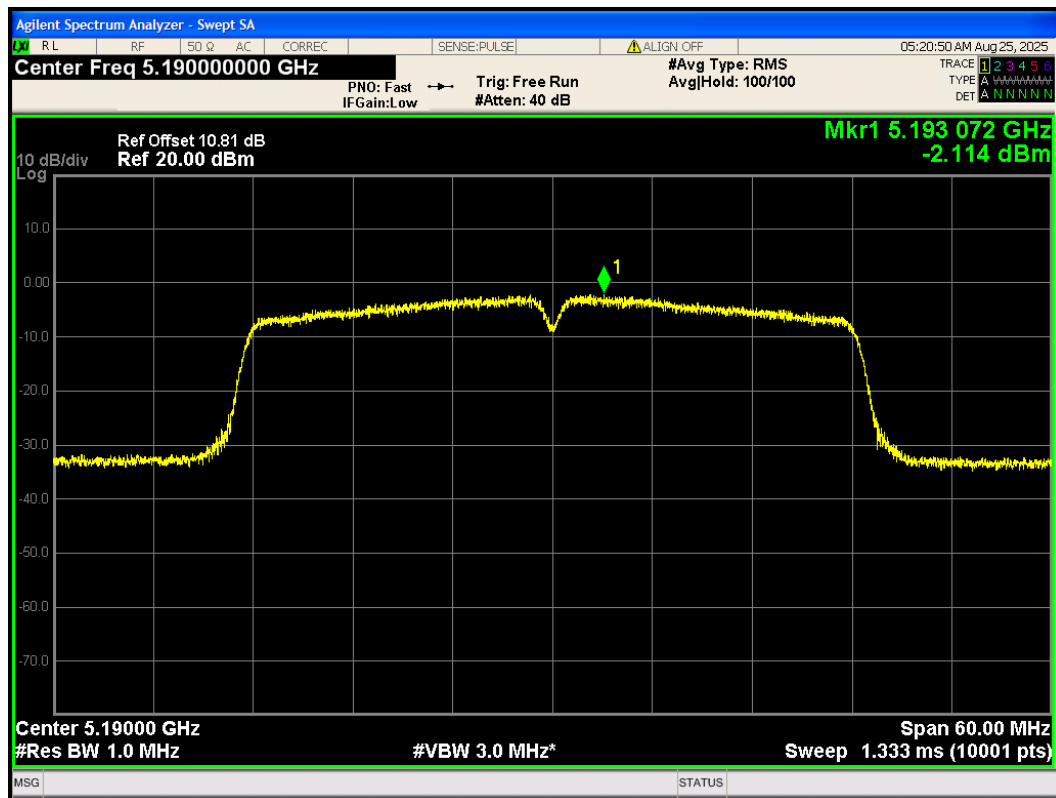
PSD 802.11n(HT20) 5200MHz



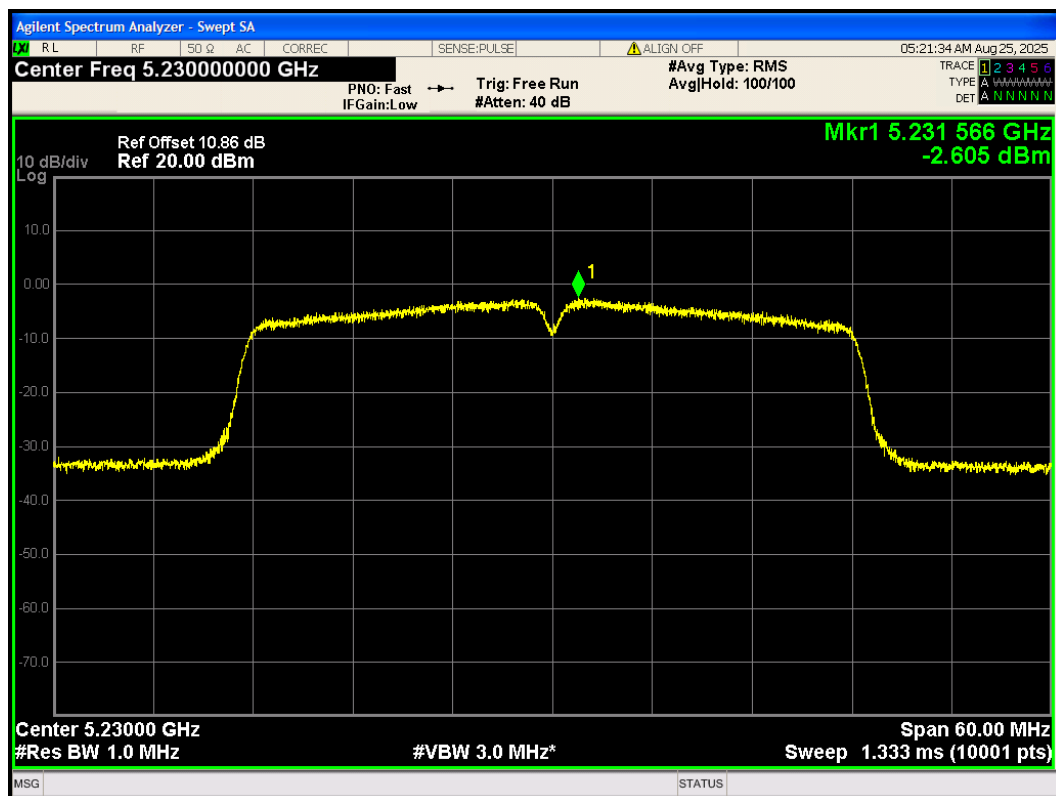
PSD 802.11n(HT20) 5240MHz



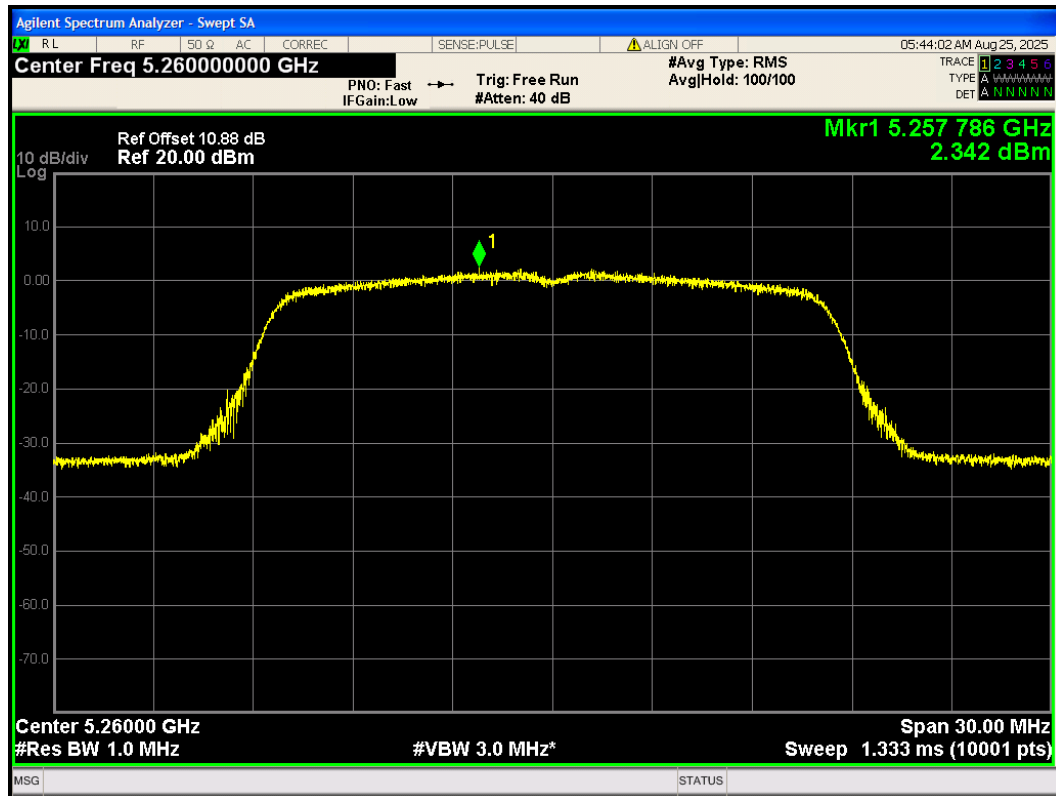
PSD 802.11n(HT40) 5190MHz



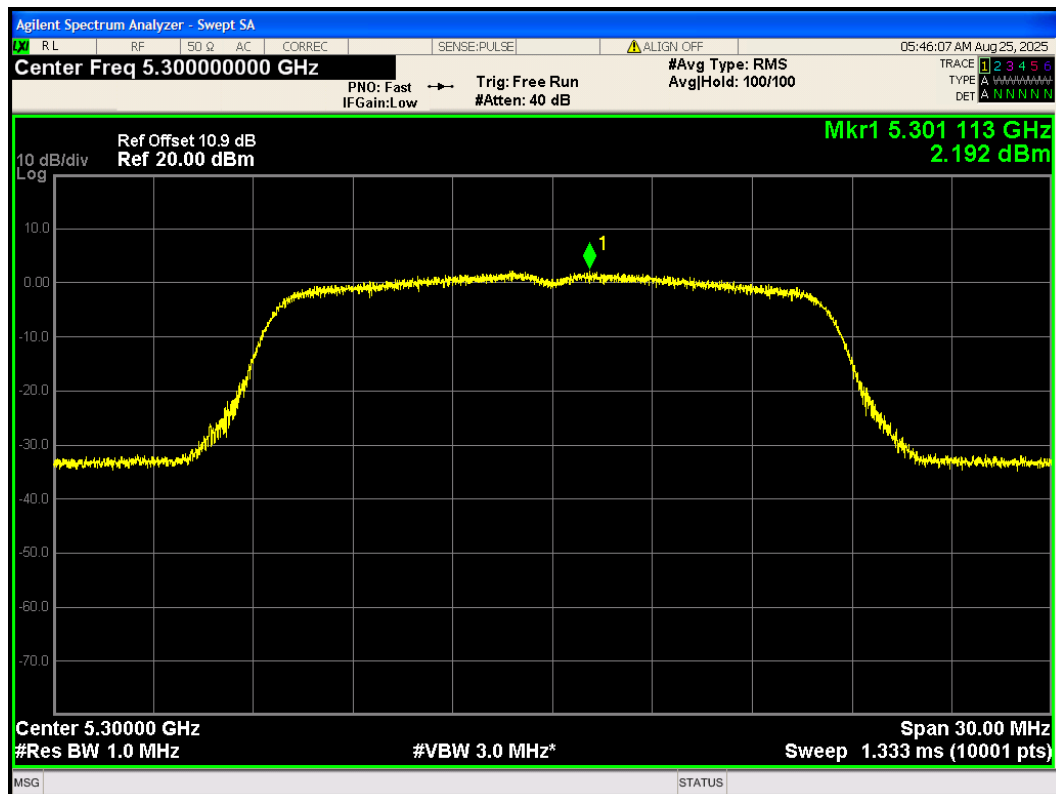
PSD 802.11n(HT40) 5230MHz



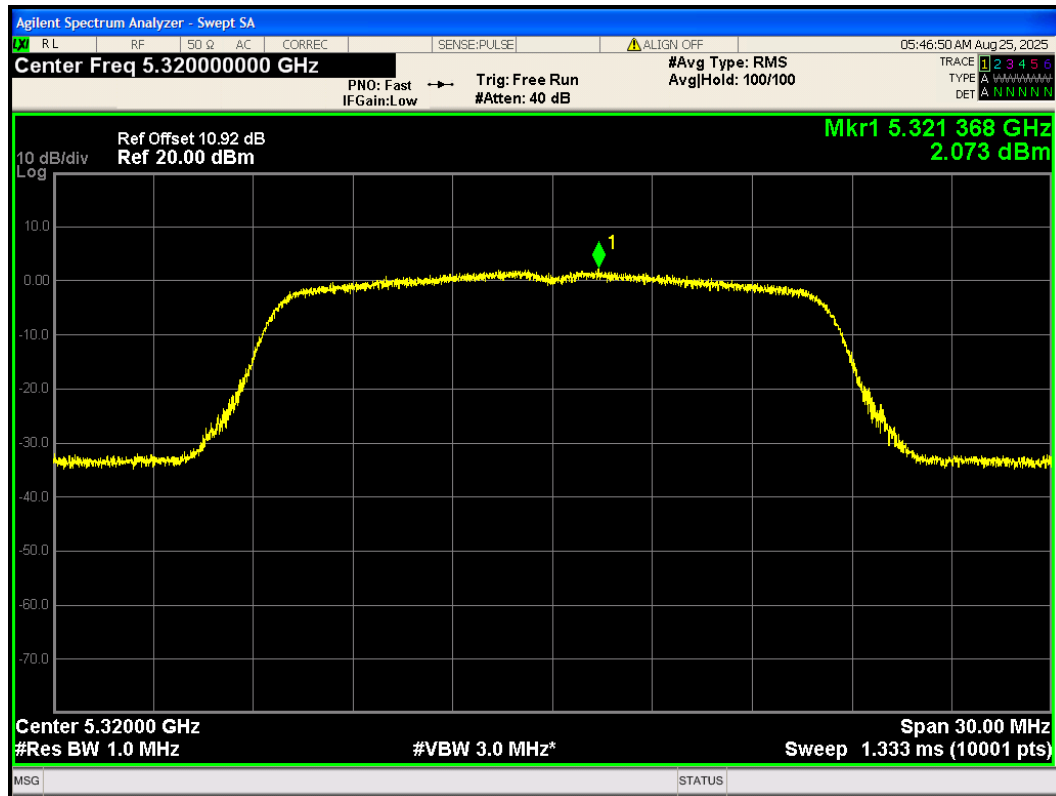
PSD 802.11a 5260MHz



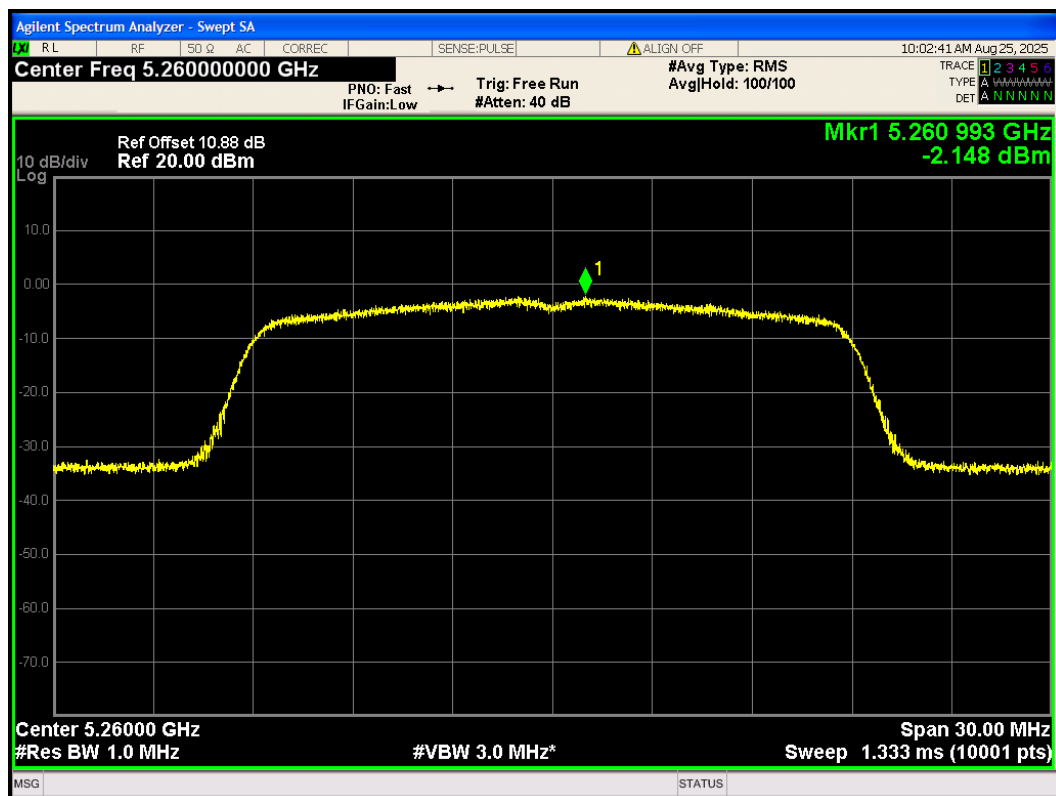
PSD 802.11a 5300MHz



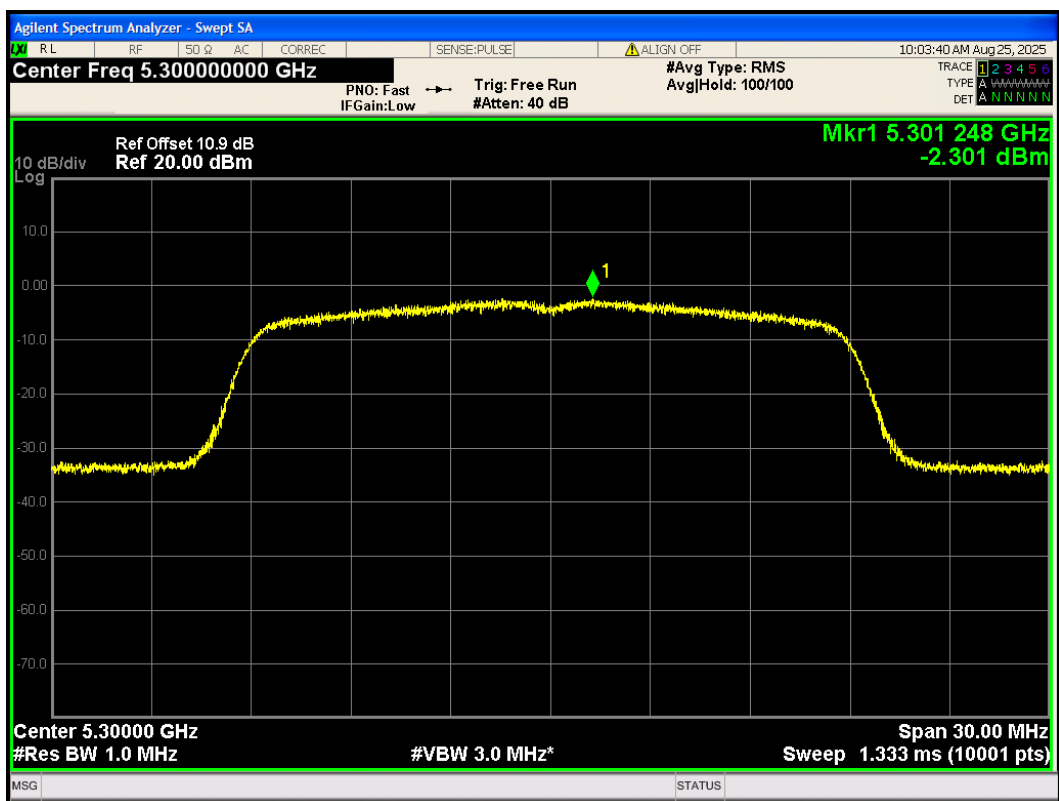
PSD 802.11a 5320MHz



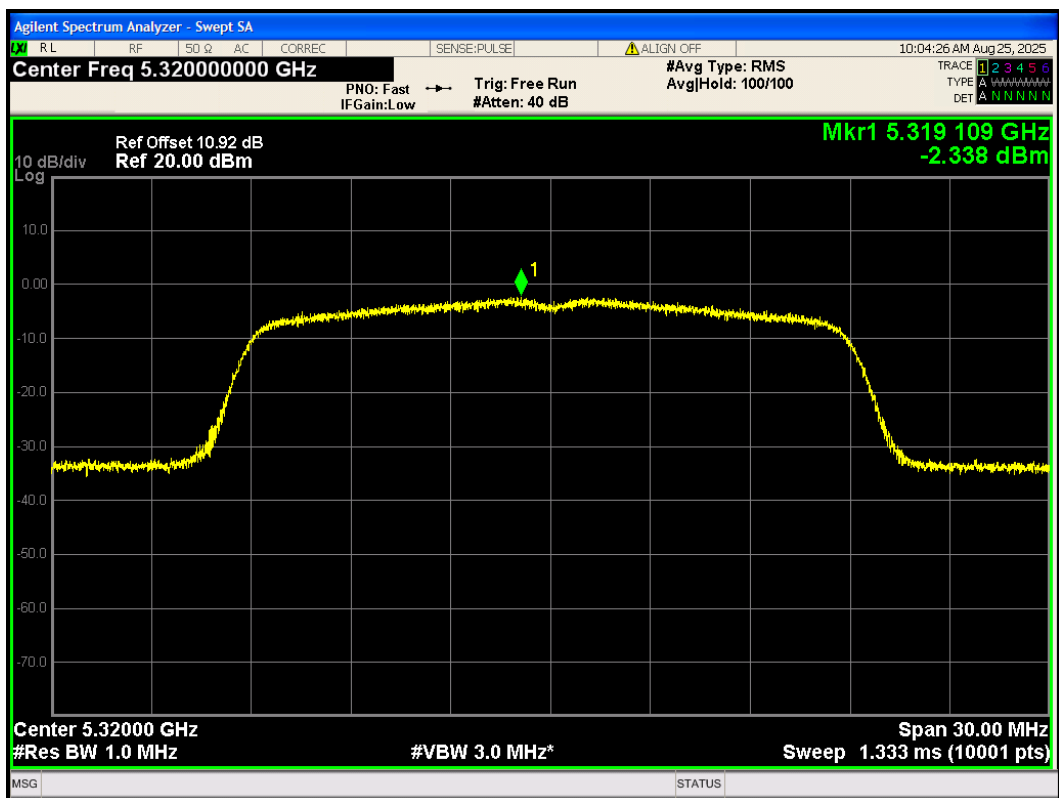
PSD 802.11ac(VHT20) 5260MHz



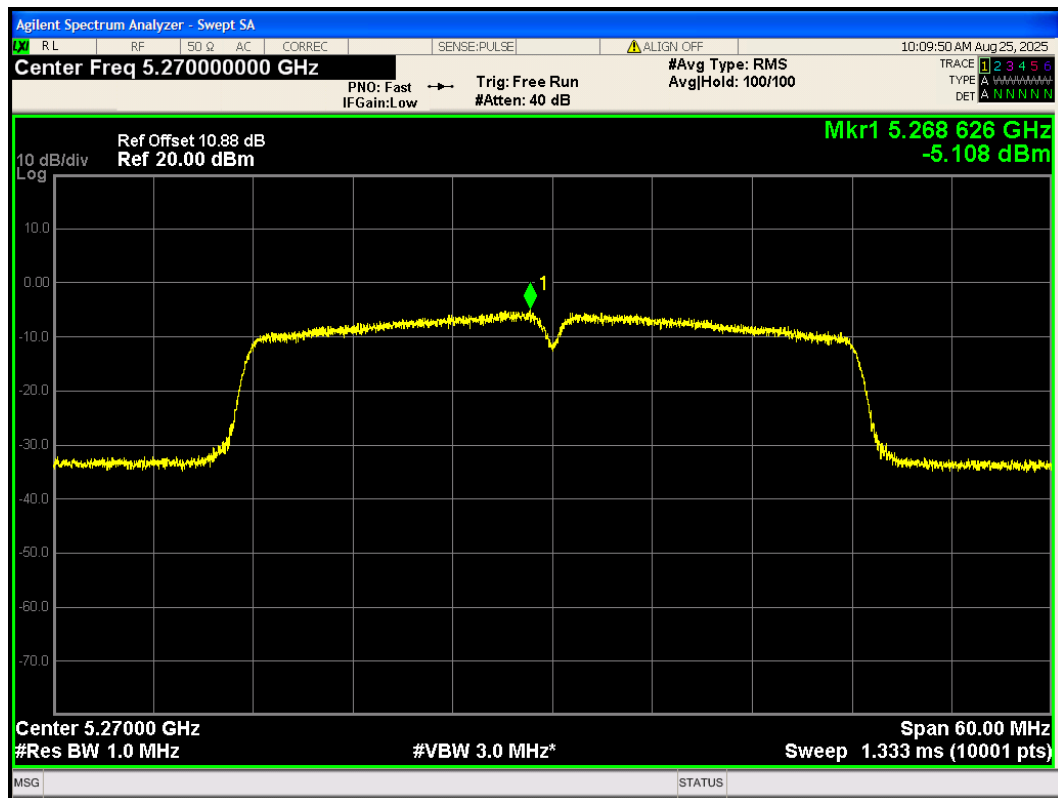
PSD 802.11ac(VHT20) 5300MHz



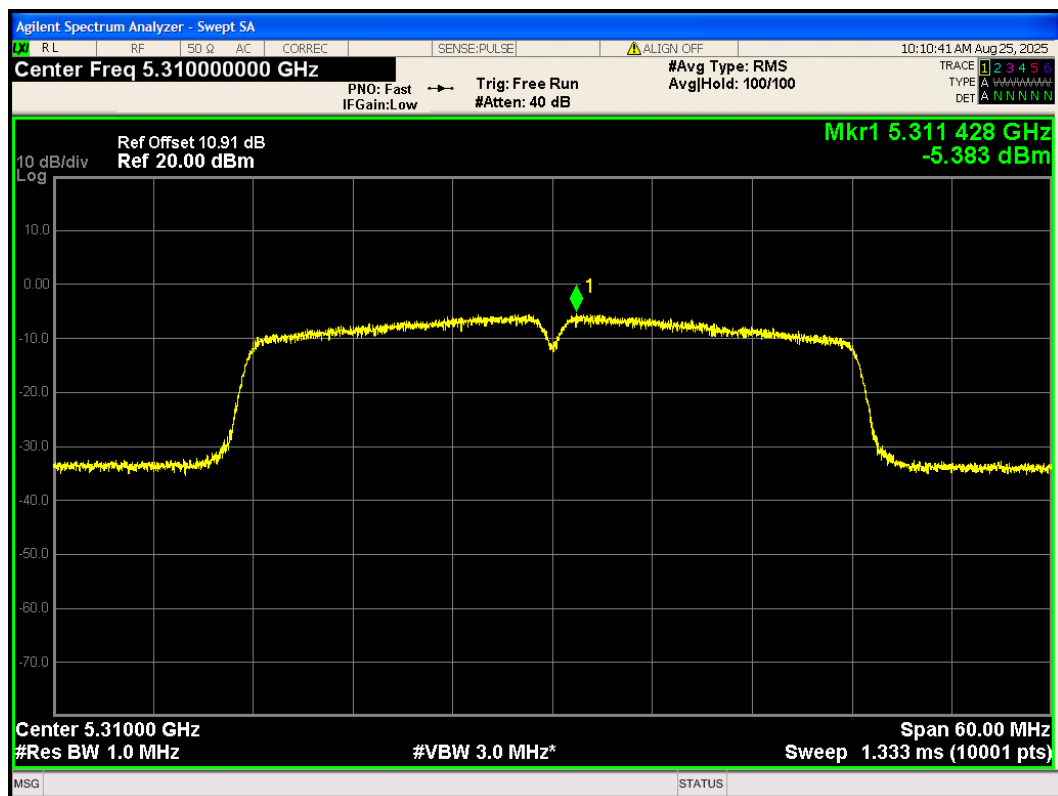
PSD 802.11ac(VHT20) 5320MHz



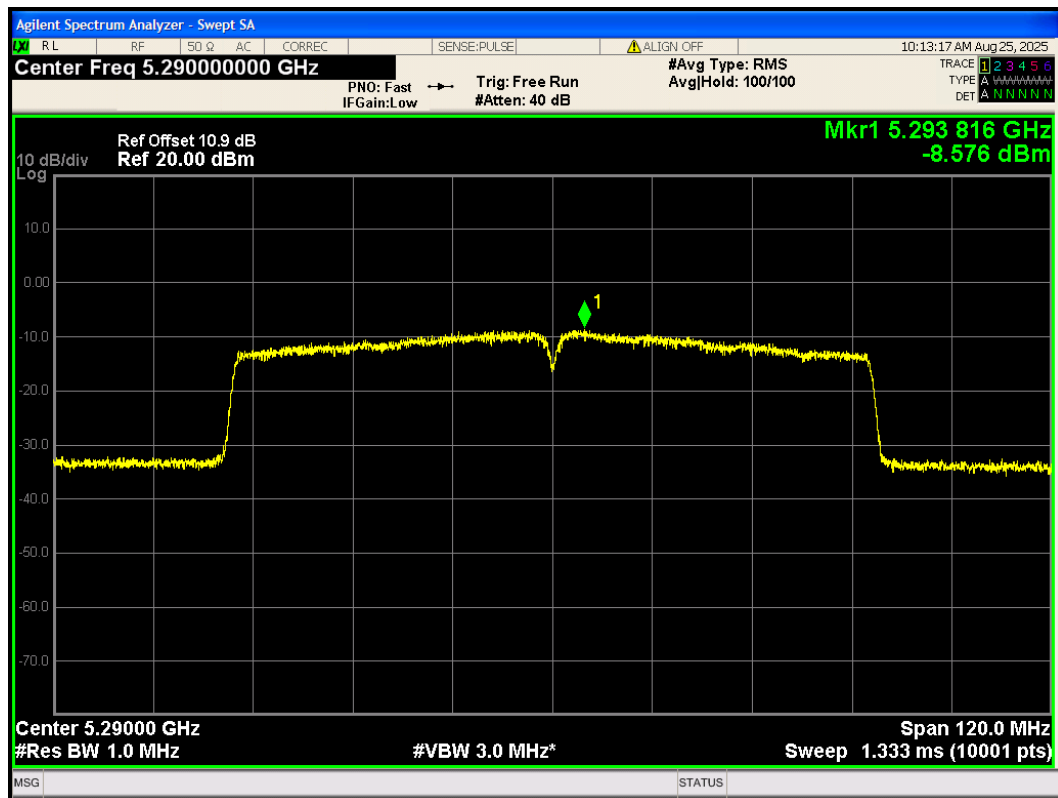
PSD 802.11ac(VHT40) 5270MHz



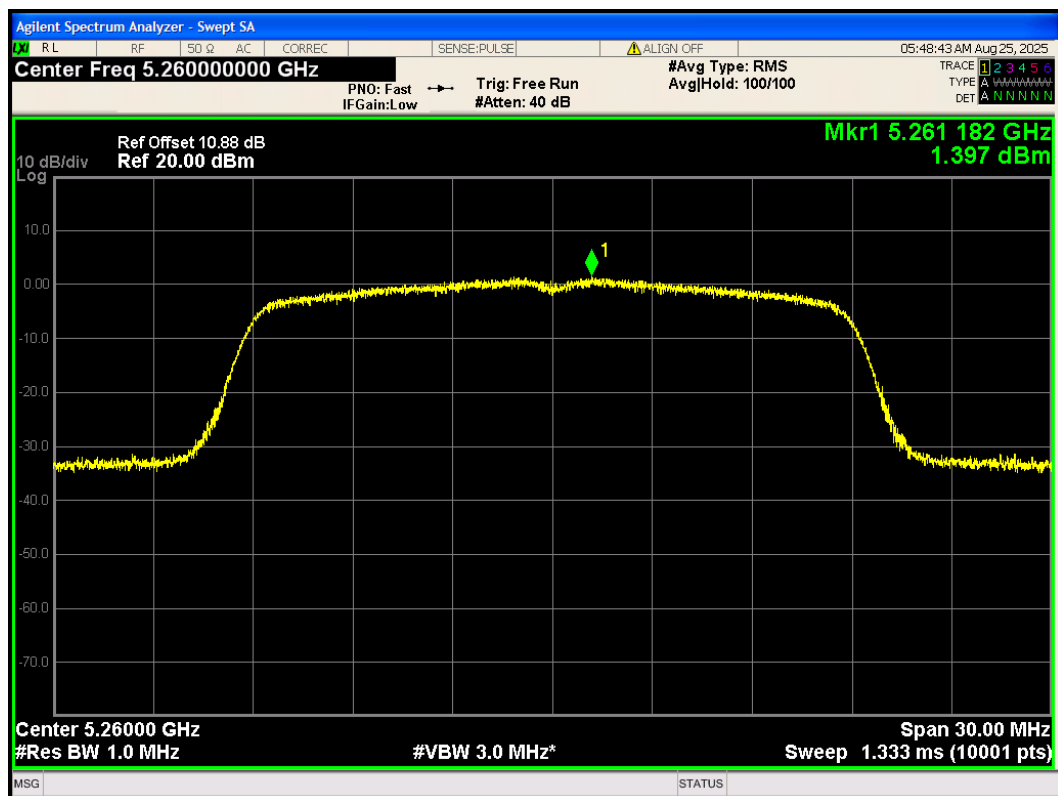
PSD 802.11ac(VHT40) 5310MHz



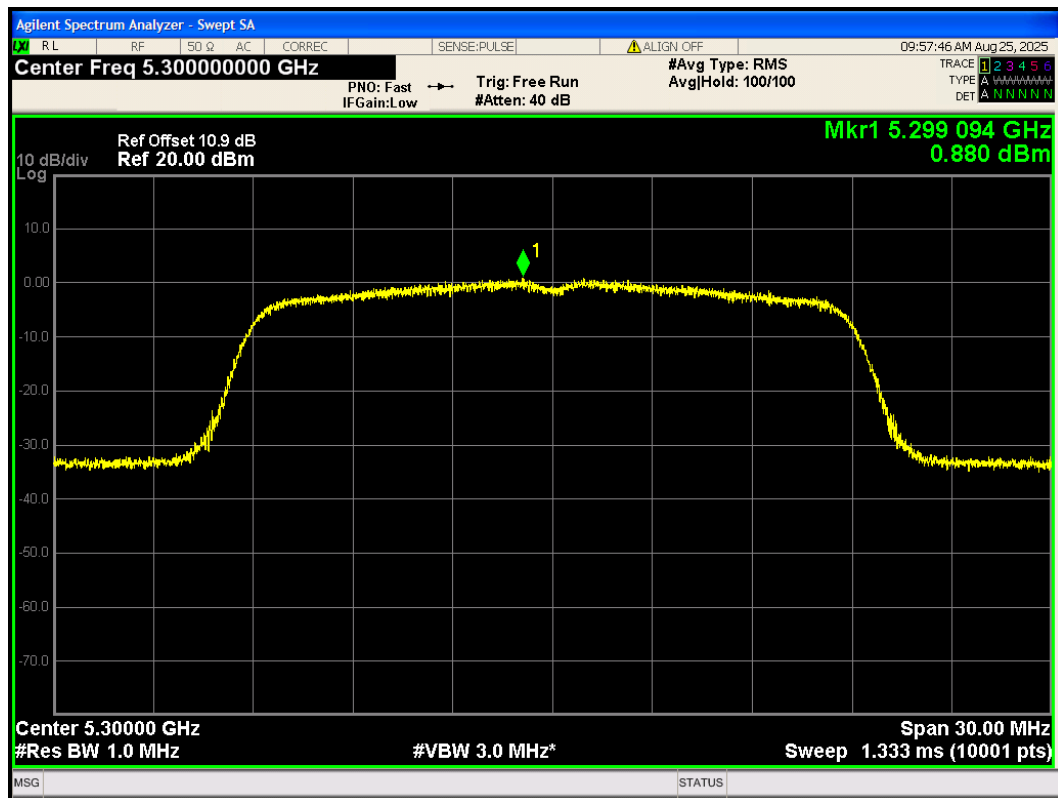
PSD 802.11ac(VHT80) 5290MHz



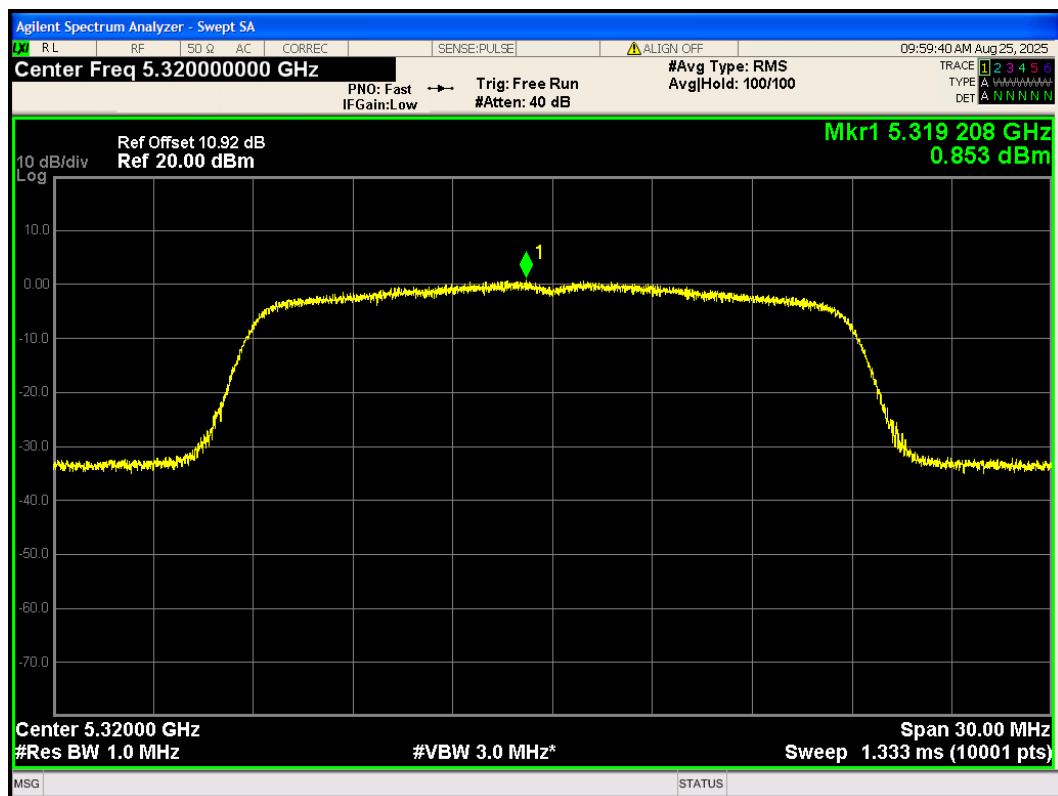
PSD 802.11n(HT20) 5260MHz



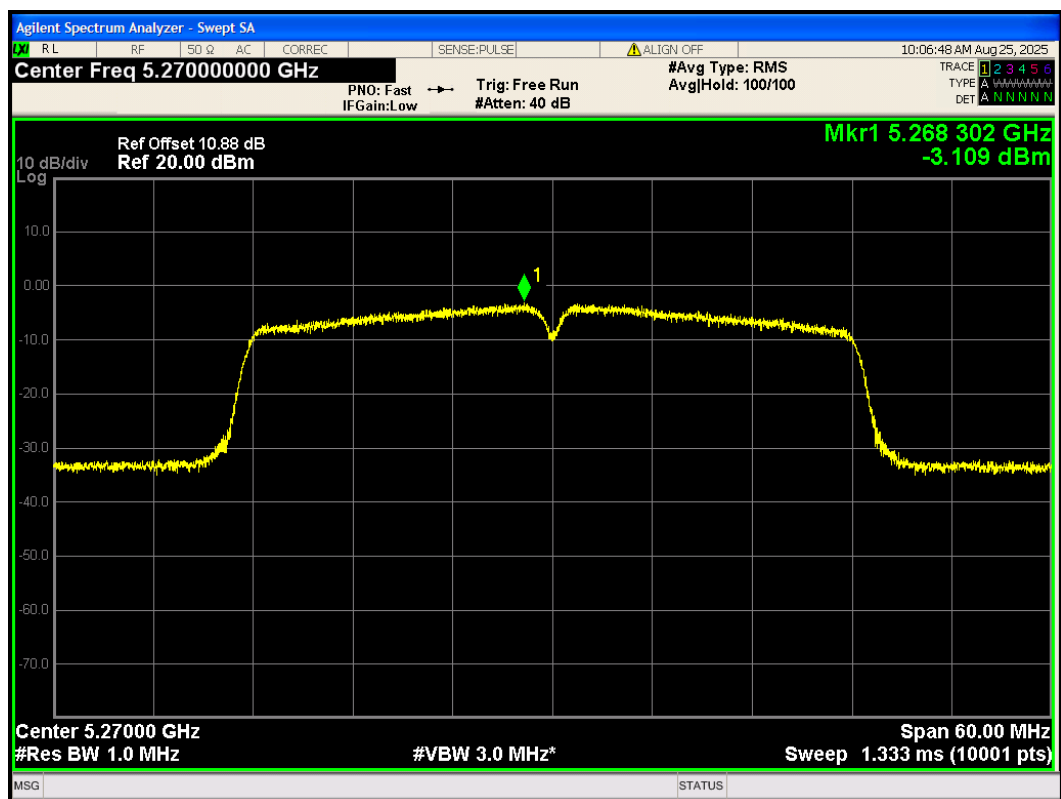
PSD 802.11n(HT20) 5300MHz



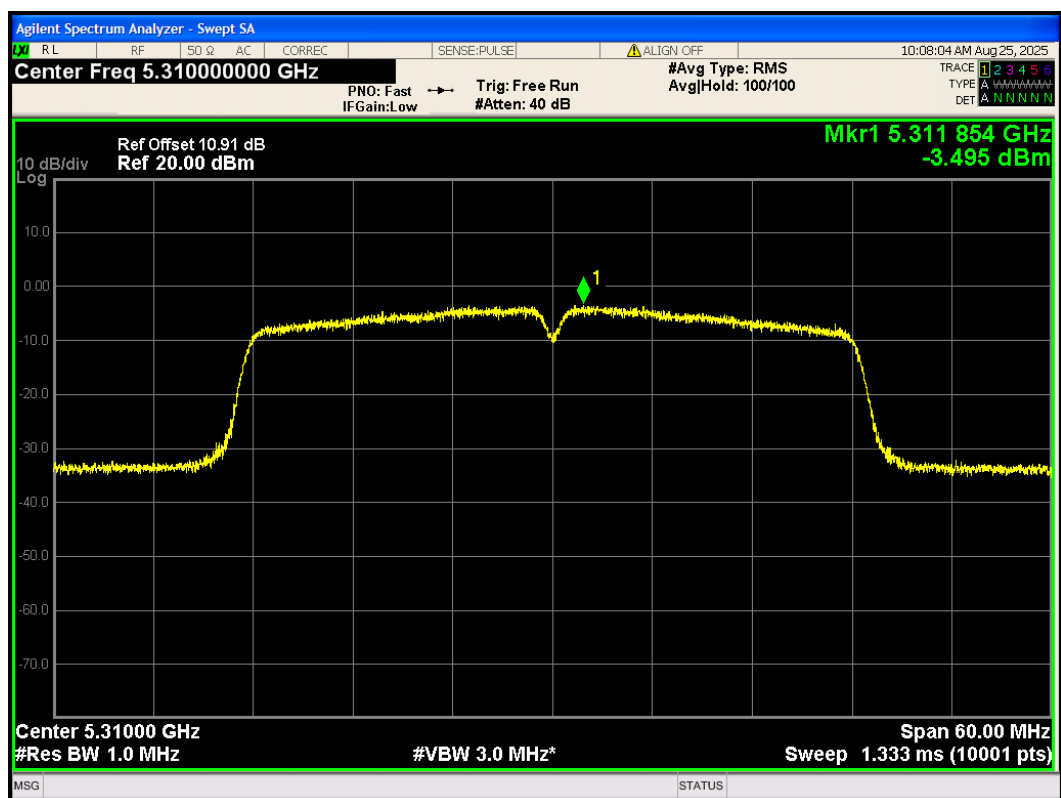
PSD 802.11n(HT20) 5320MHz



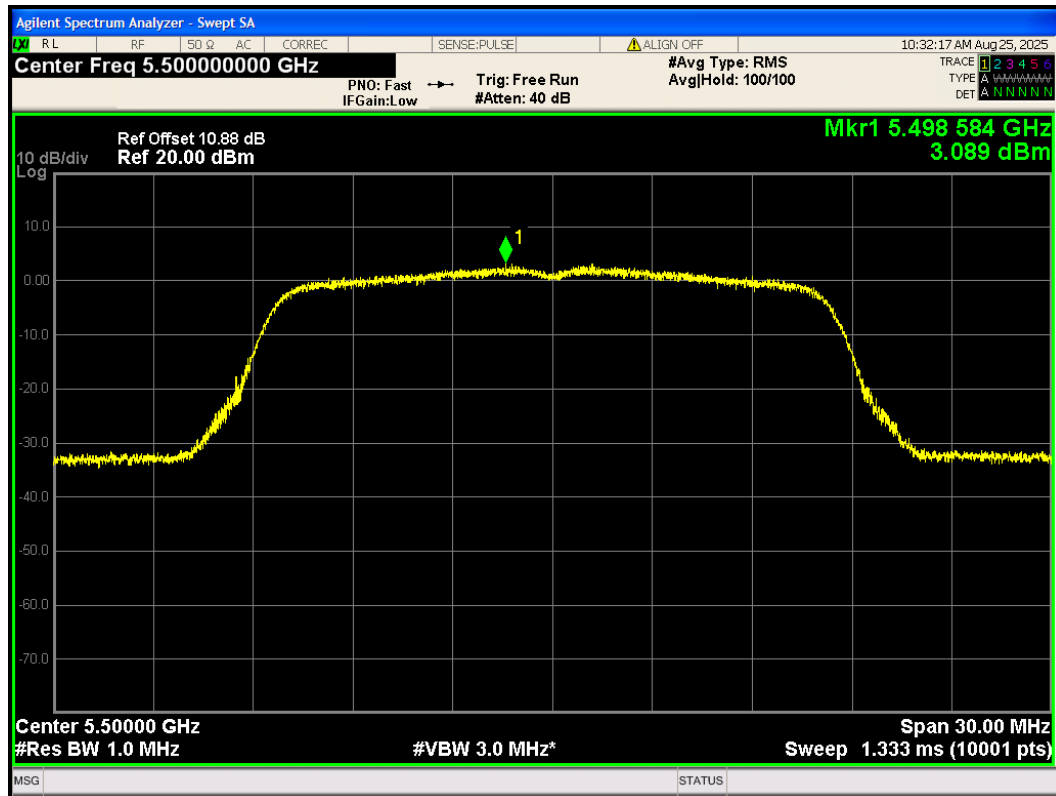
PSD 802.11n(HT40) 5270MHz



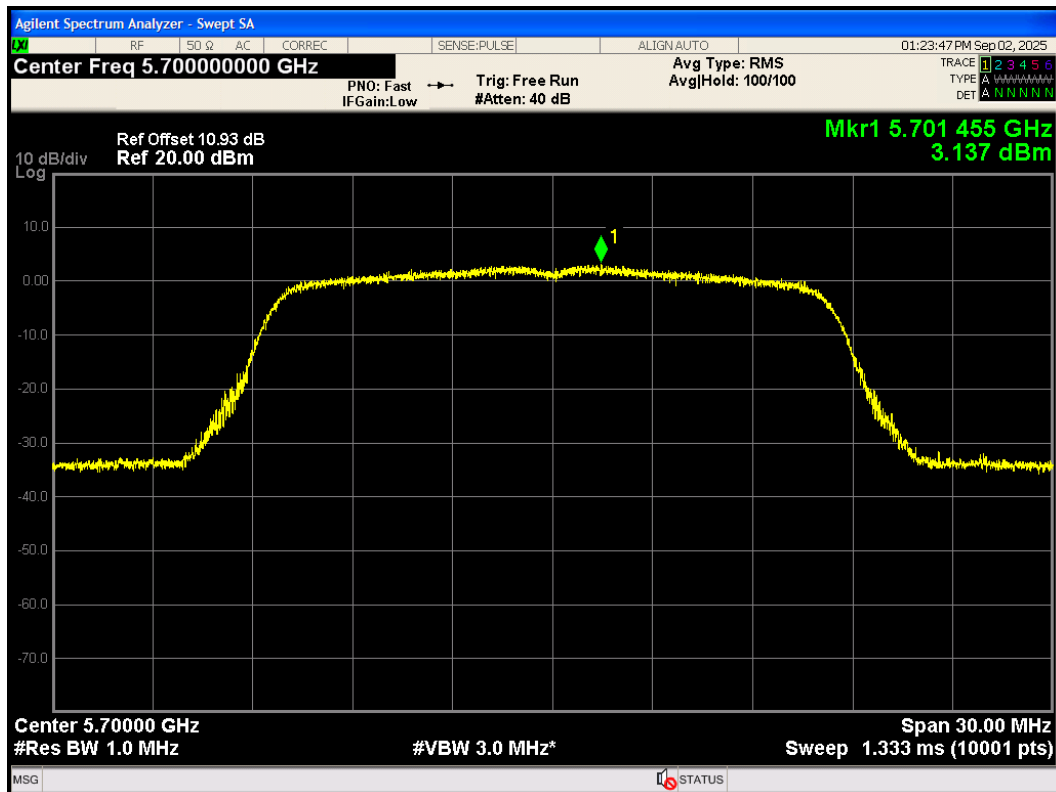
PSD 802.11n(HT40) 5310MHz



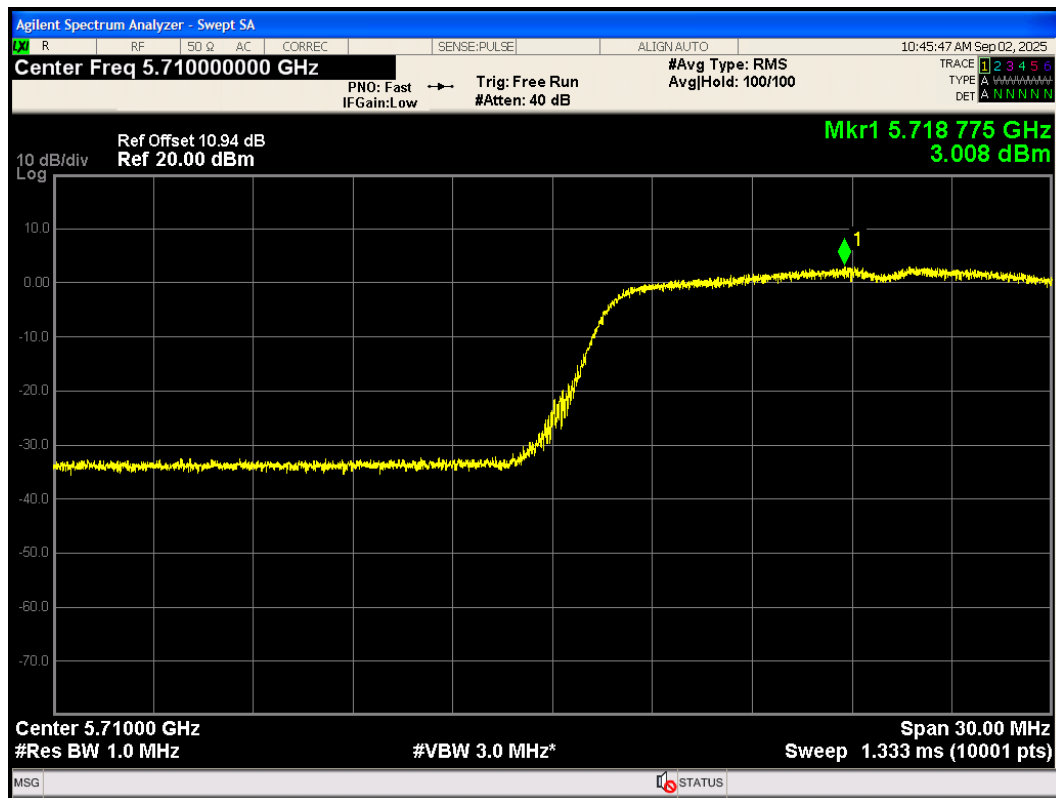
PSD 802.11a 5500MHz



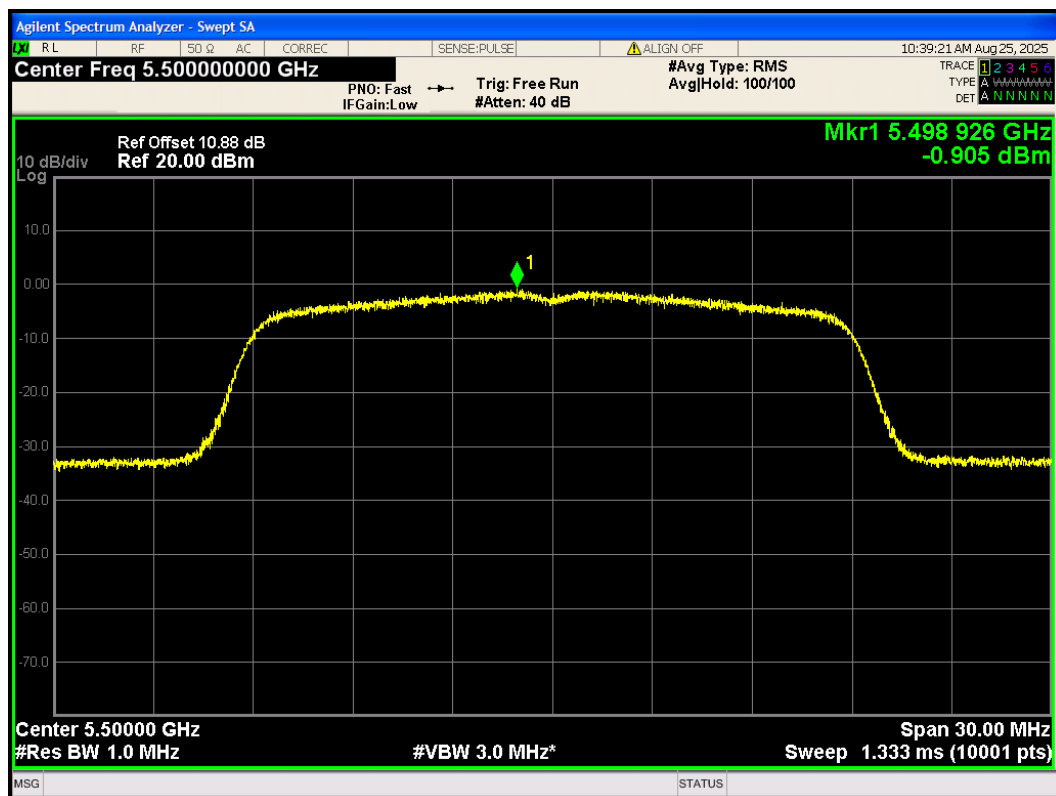
PSD 802.11a 5700MHz



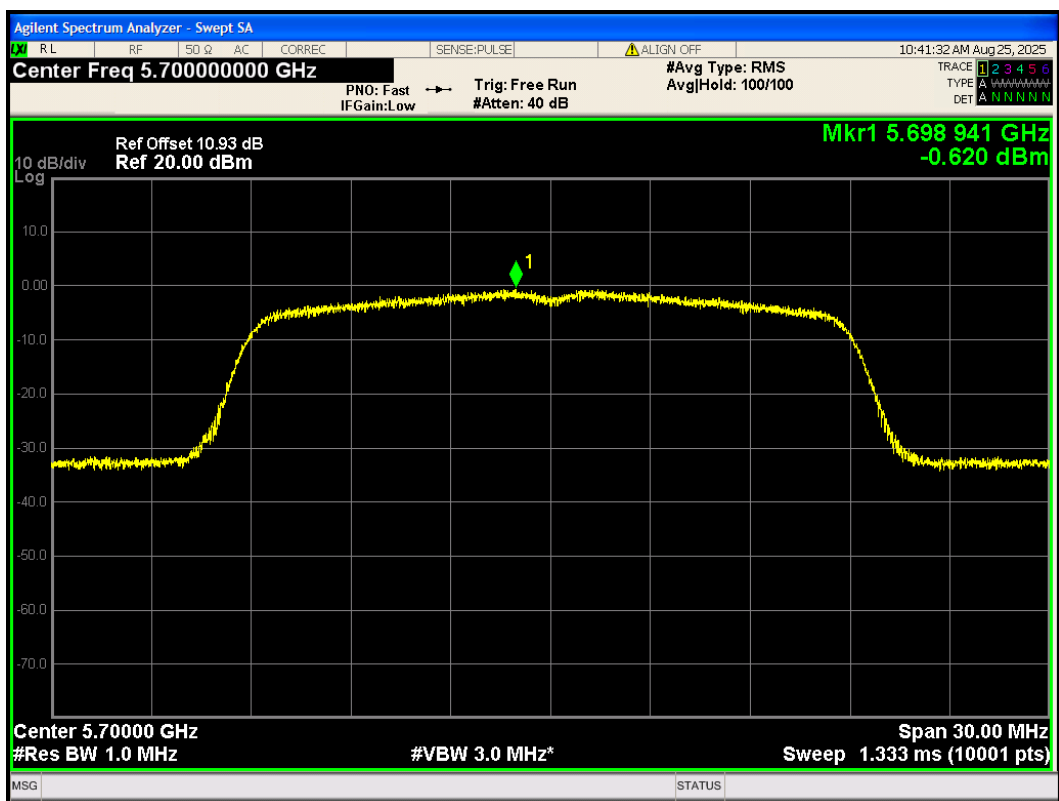
PSD 802.11a 5720MHz



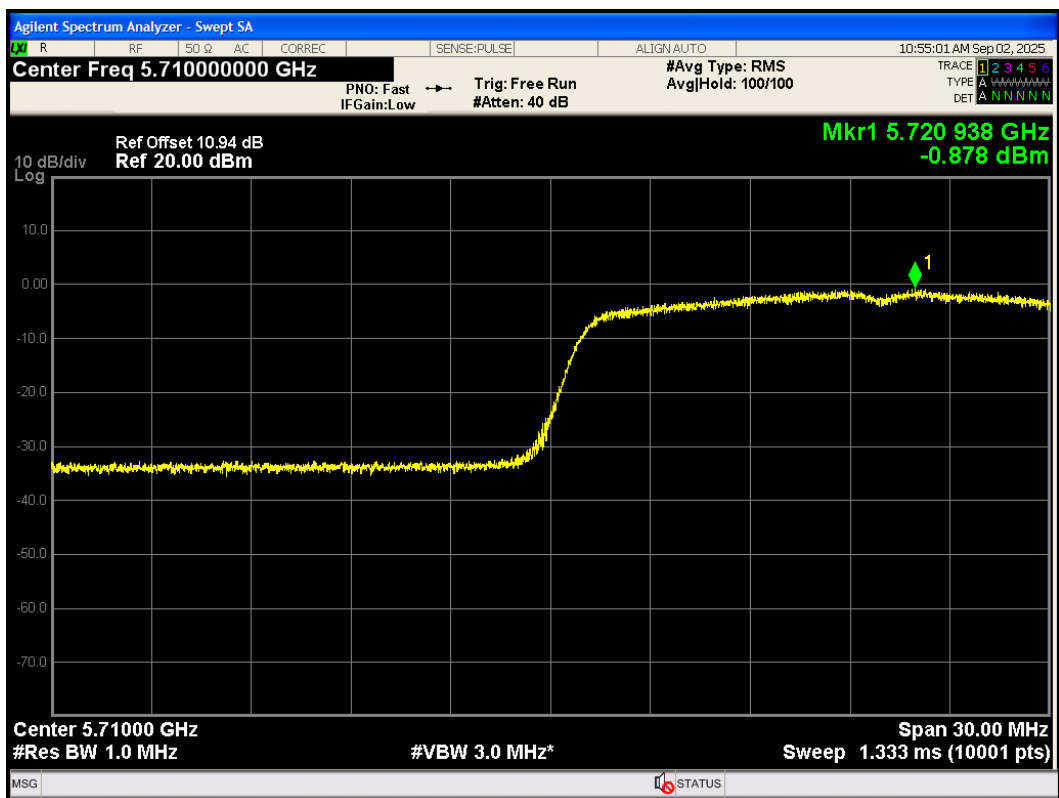
PSD 802.11ac(VHT20) 5500MHz



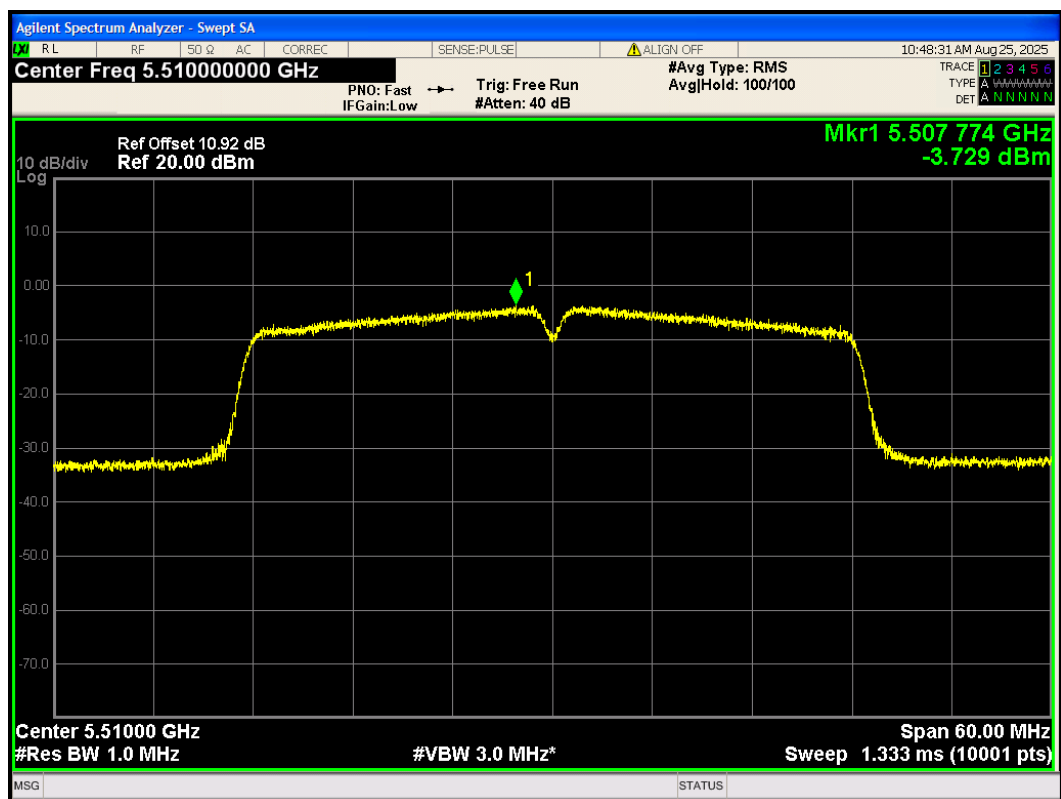
PSD 802.11ac(VHT20) 5700MHz



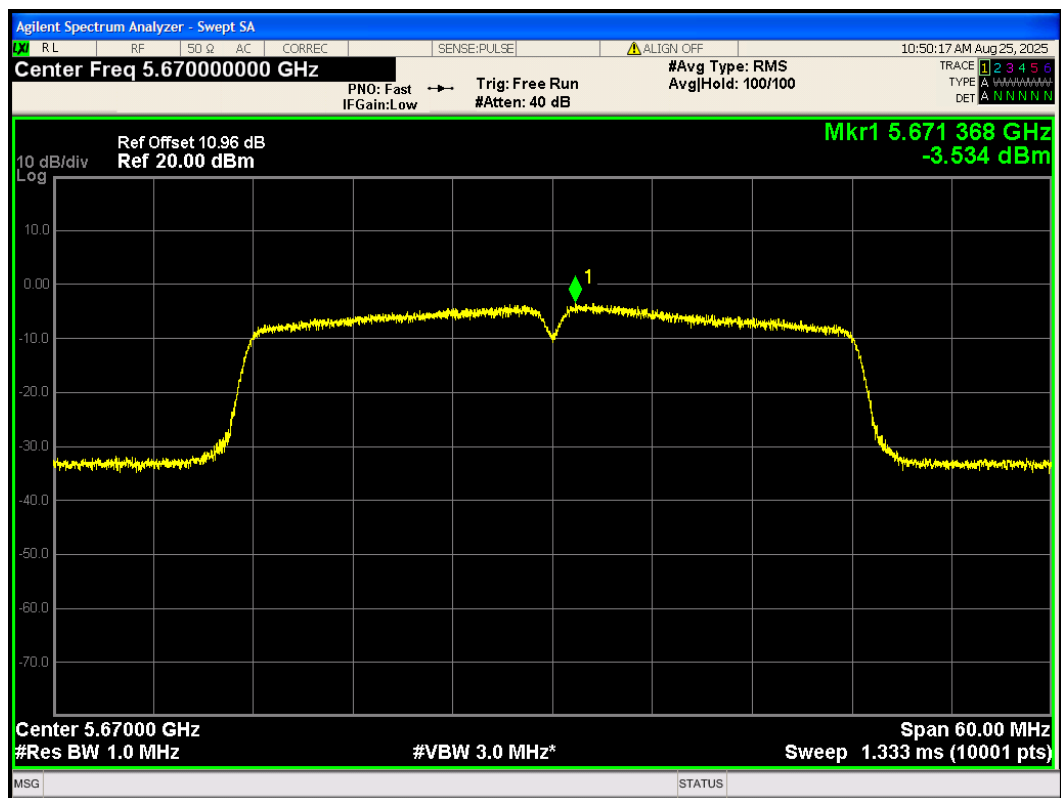
PSD 802.11ac(VHT20) 5720MHz



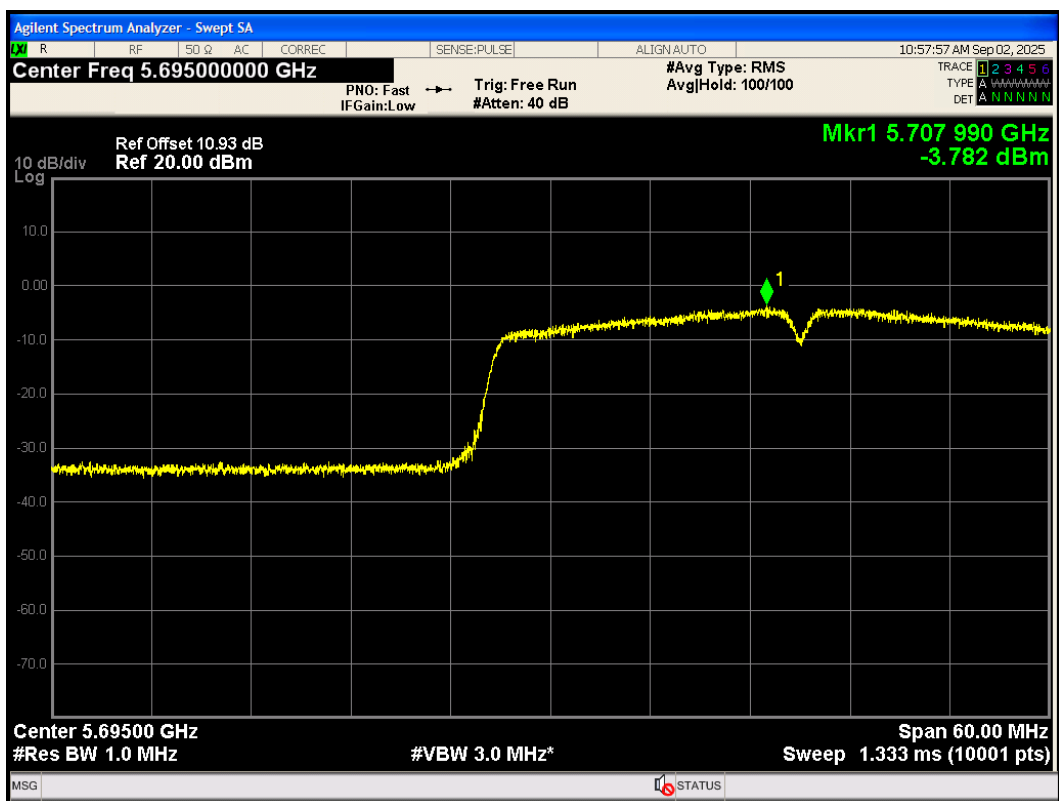
PSD 802.11ac(VHT40) 5510MHz



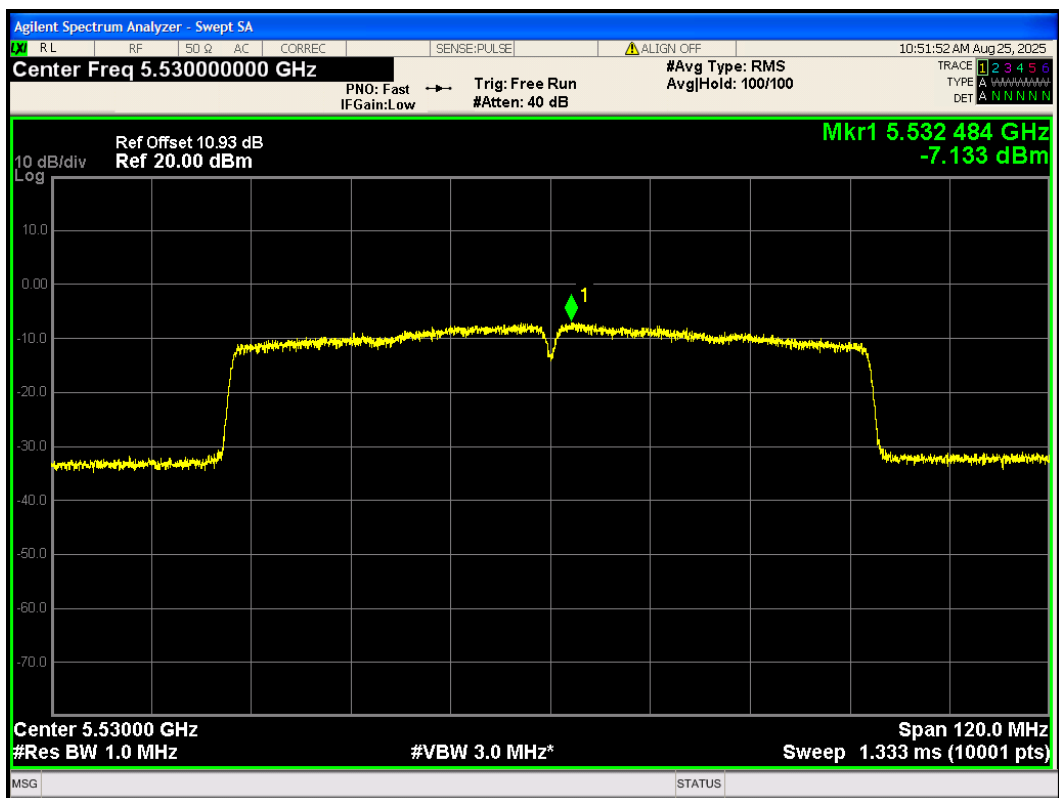
PSD 802.11ac(VHT40) 5670MHz



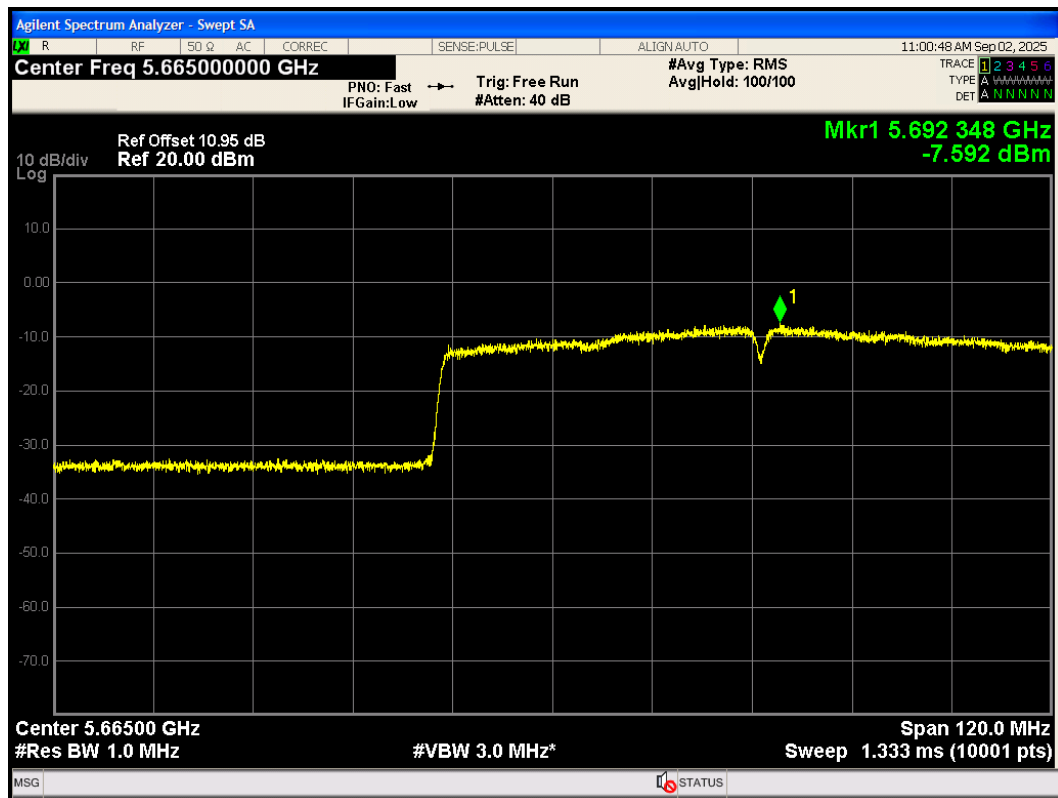
PSD 802.11ac(VHT40) 5710MHz



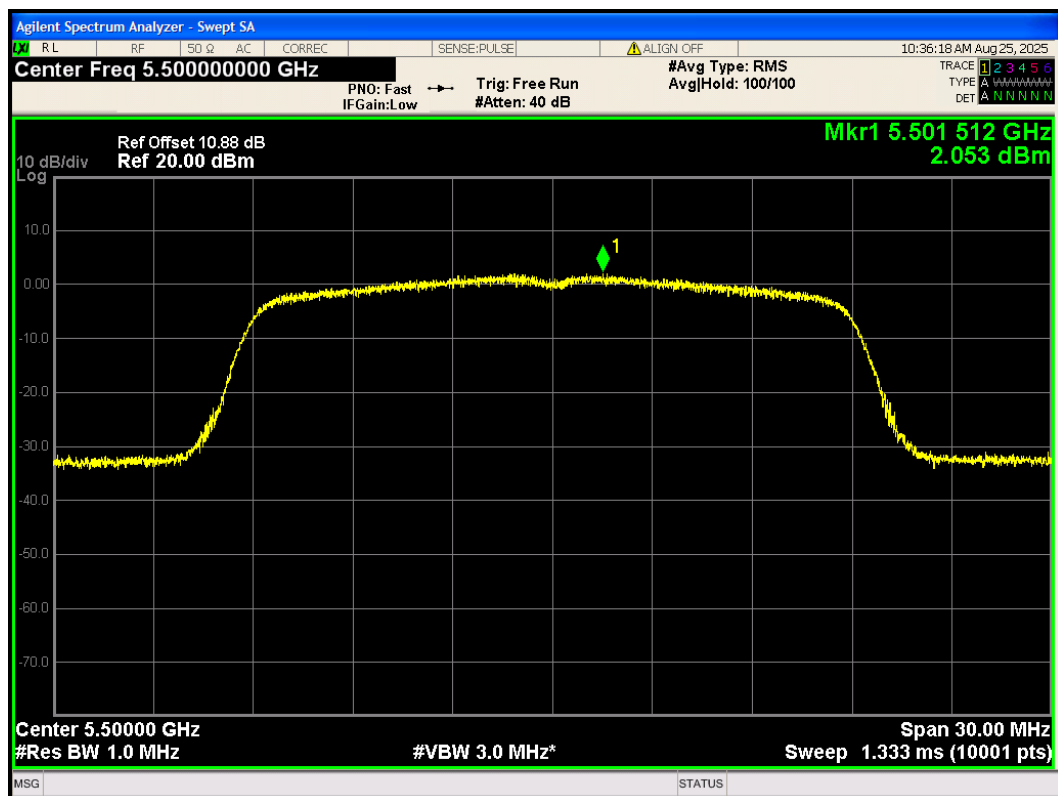
PSD 802.11ac(VHT80) 5530MHz



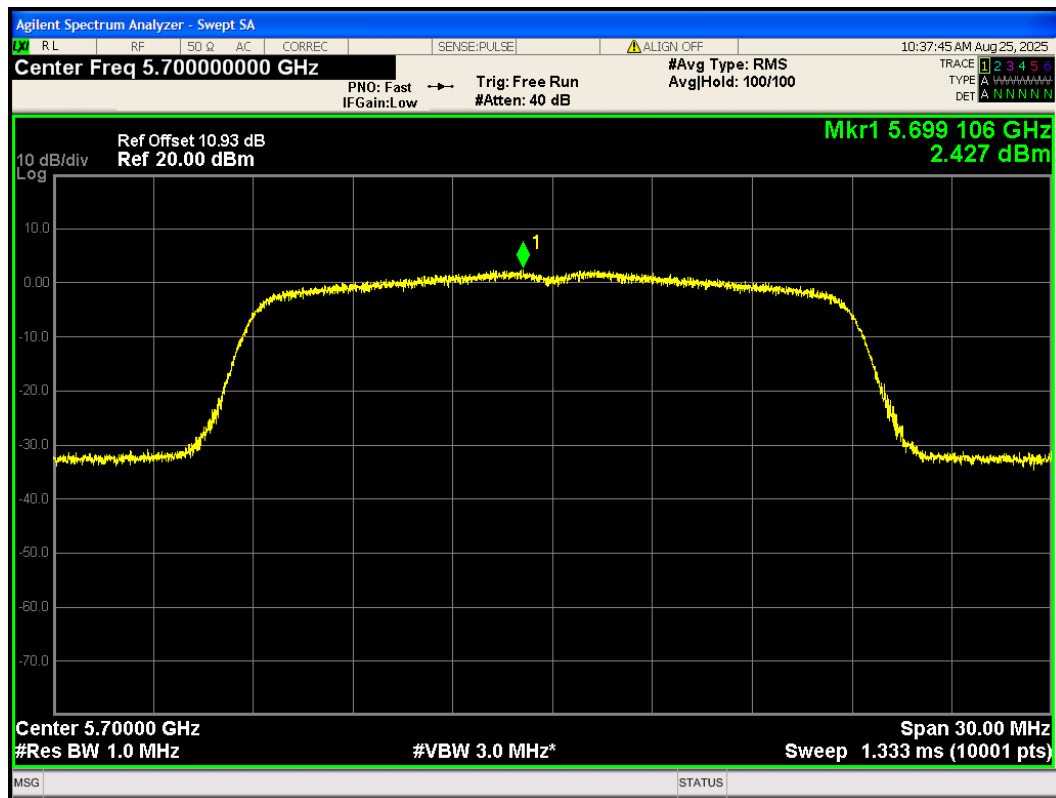
PSD 802.11ac(VHT80) 5690MHz



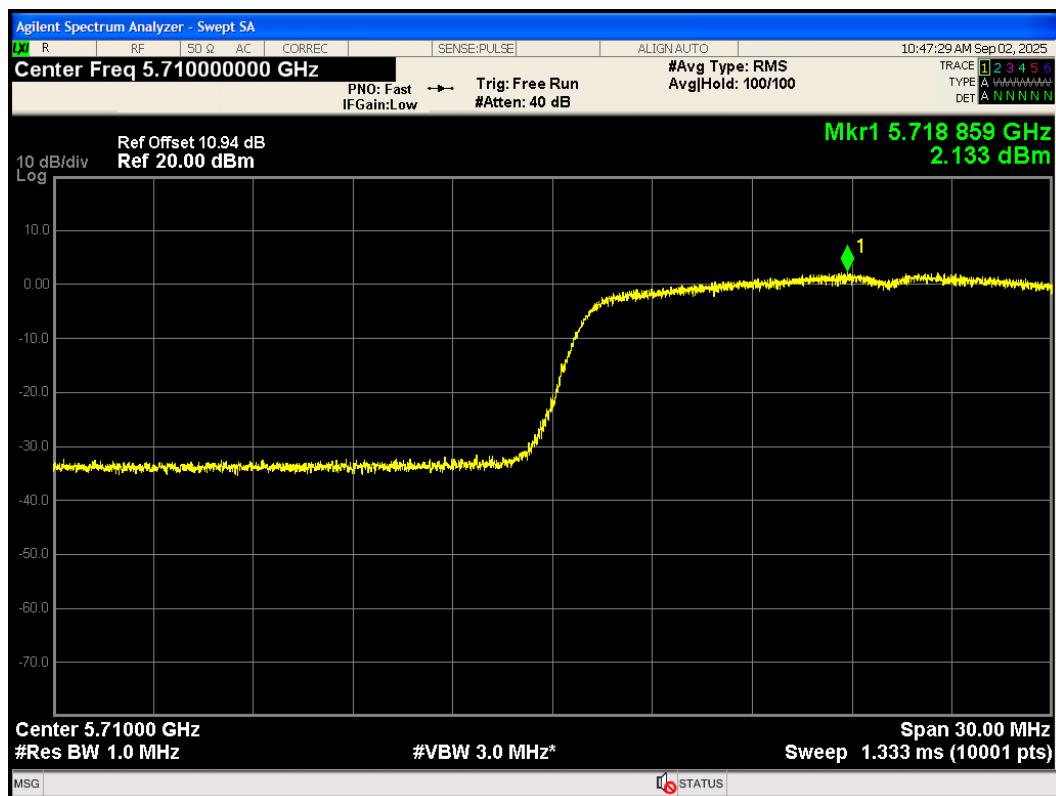
PSD 802.11n(HT20) 5500MHz



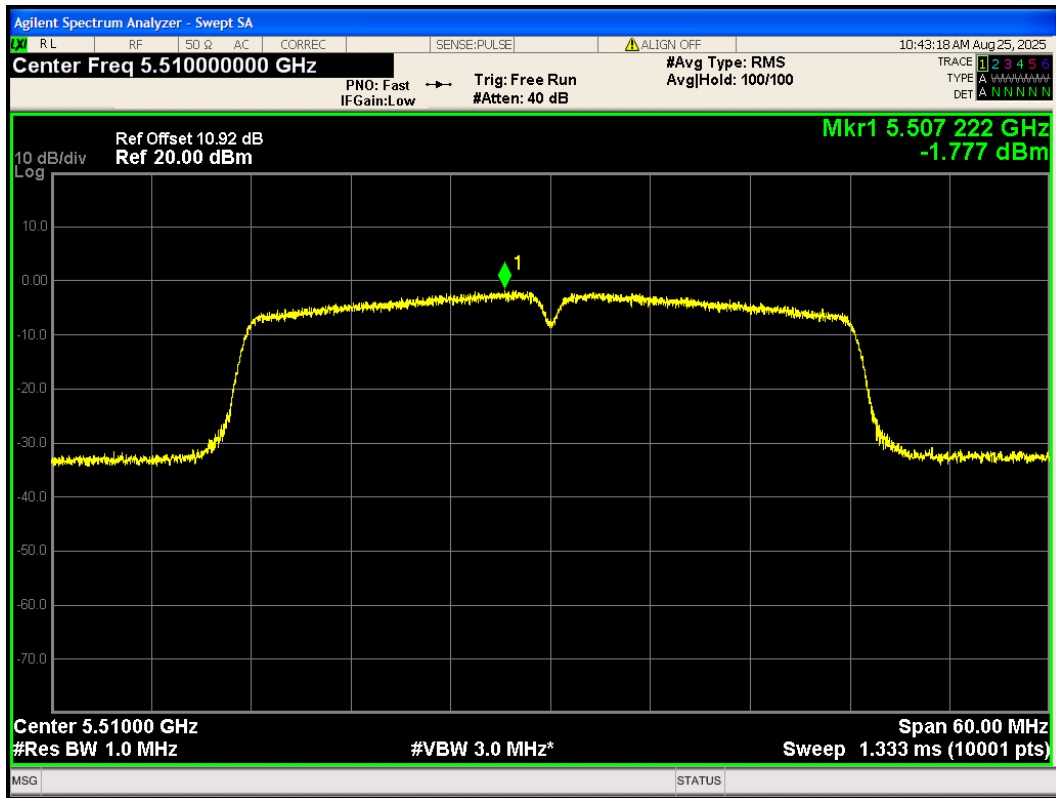
PSD 802.11n(HT20) 5700MHz



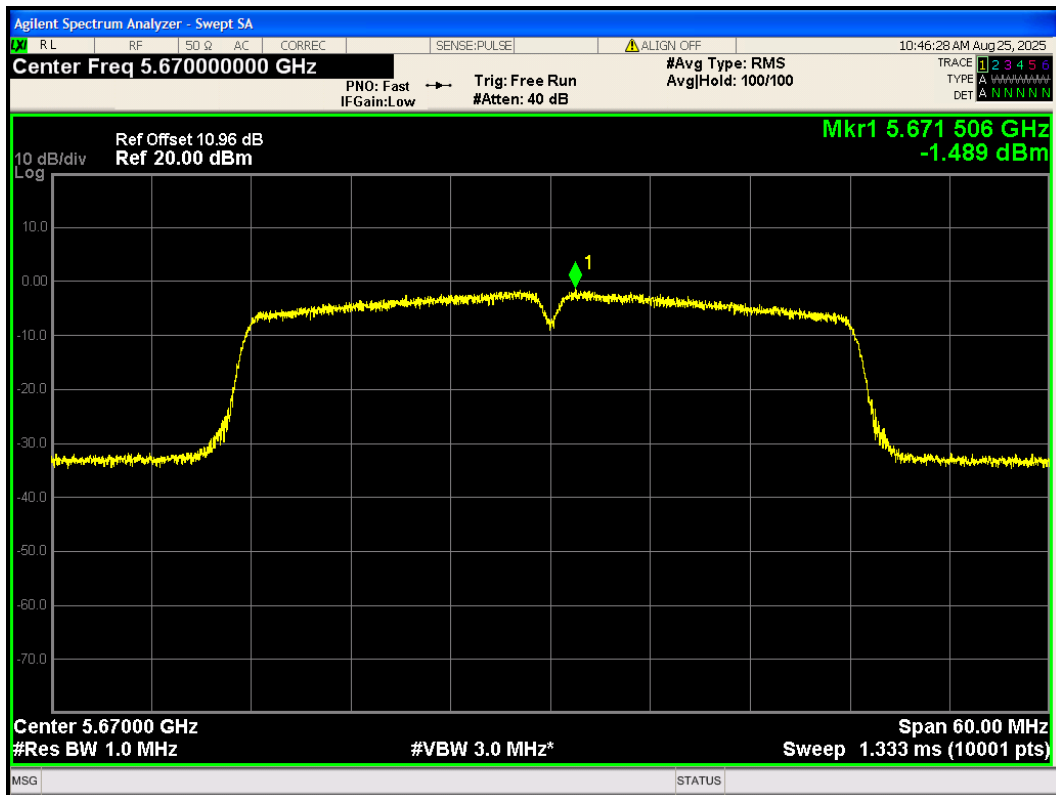
PSD 802.11n(HT20) 5720MHz



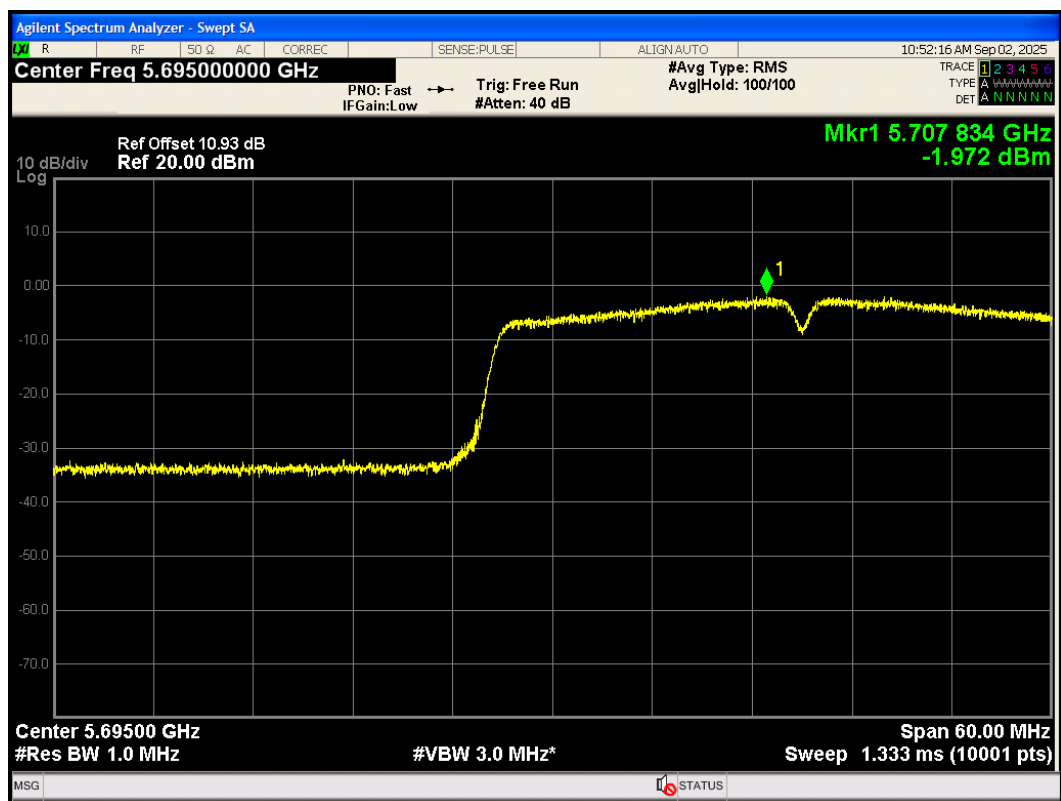
PSD 802.11n(HT40) 5510MHz



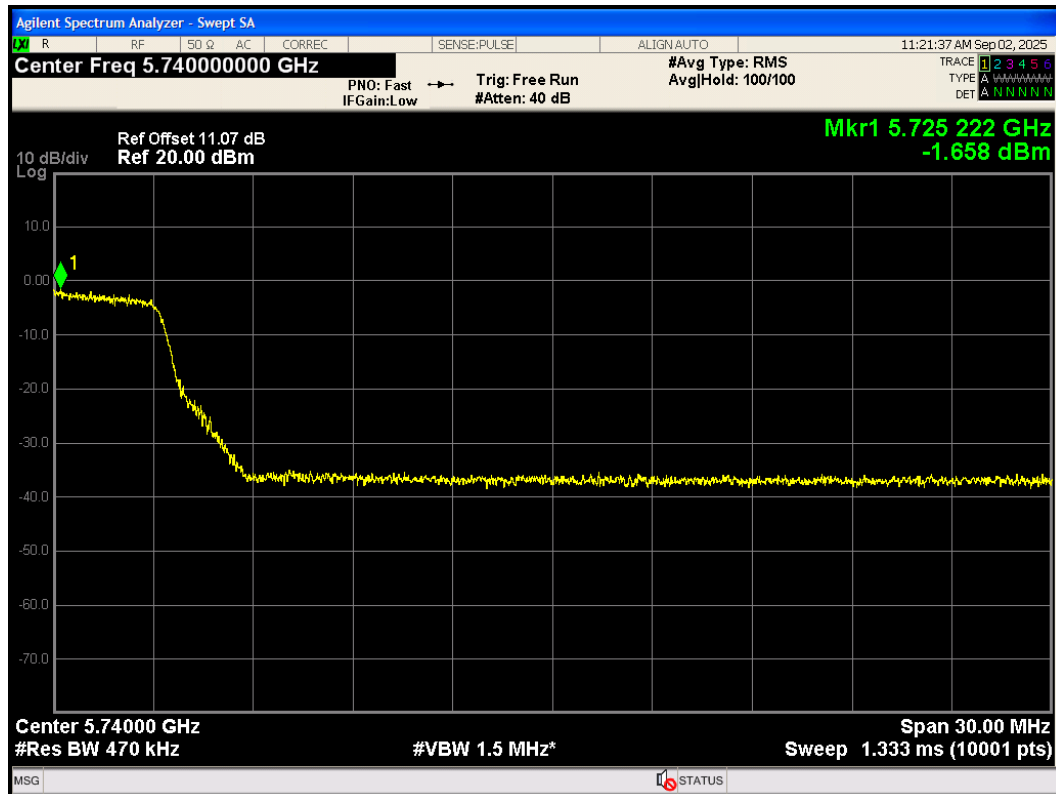
PSD 802.11n(HT40) 5670MHz



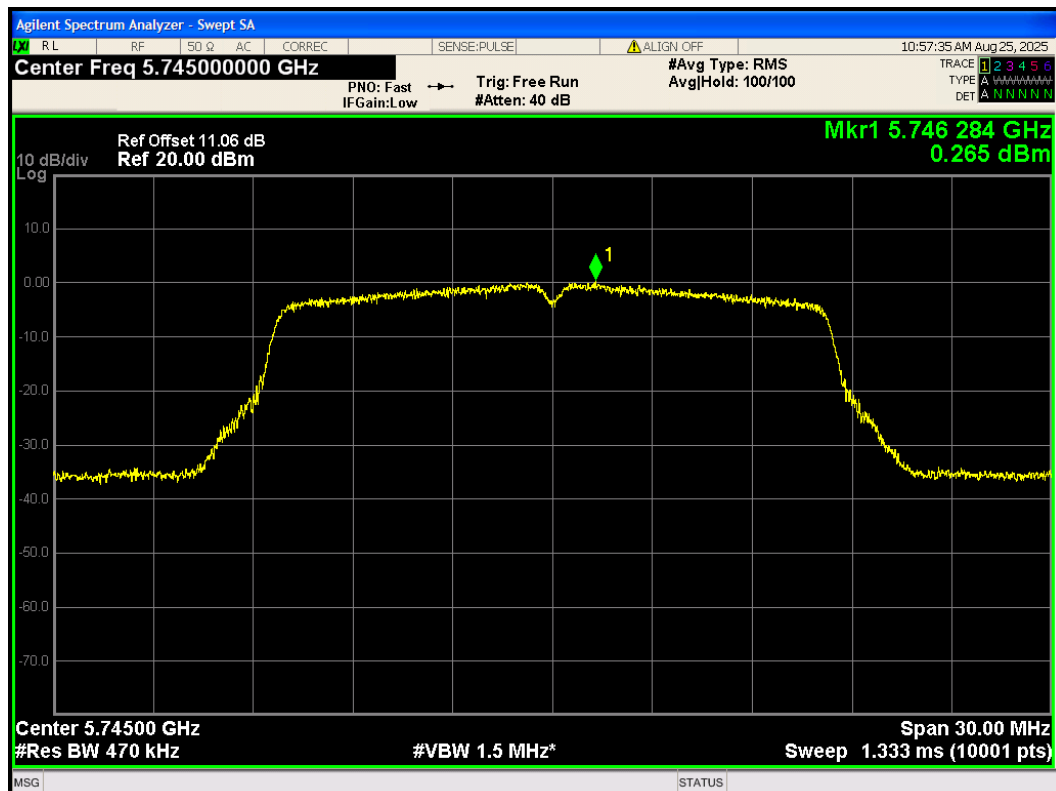
PSD 802.11n(HT40) 5710MHz



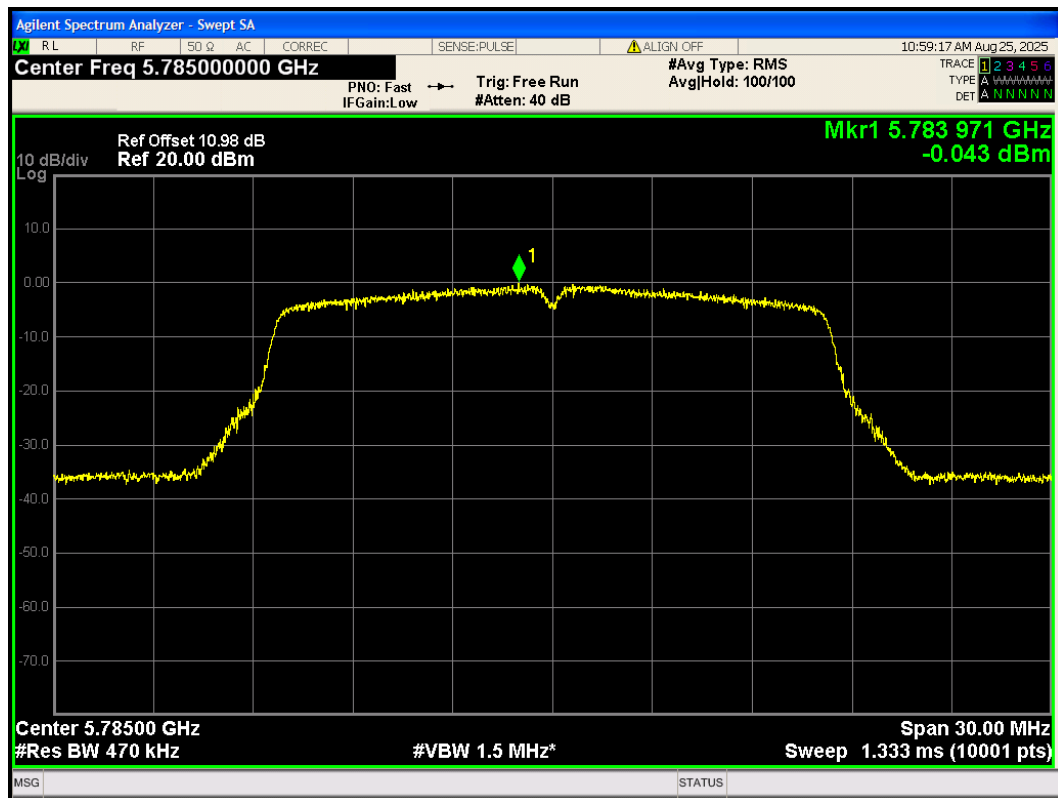
PSD 802.11a 5720MHz



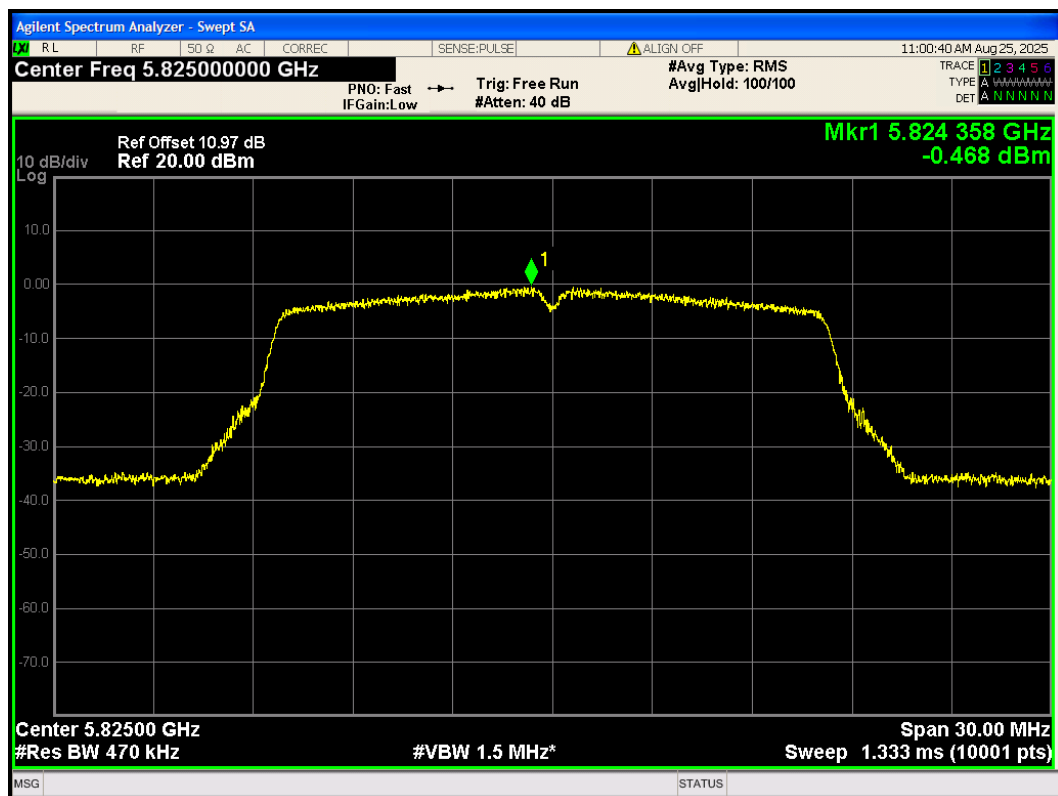
PSD 802.11a 5745MHz



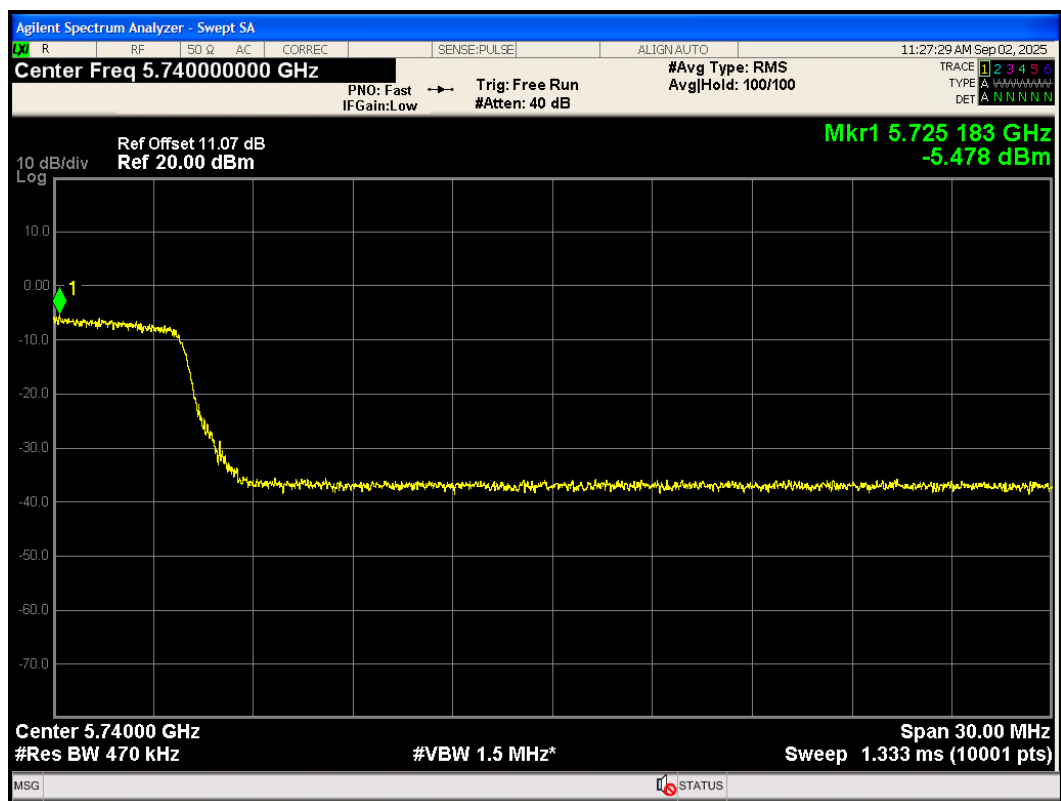
PSD 802.11a 5785MHz



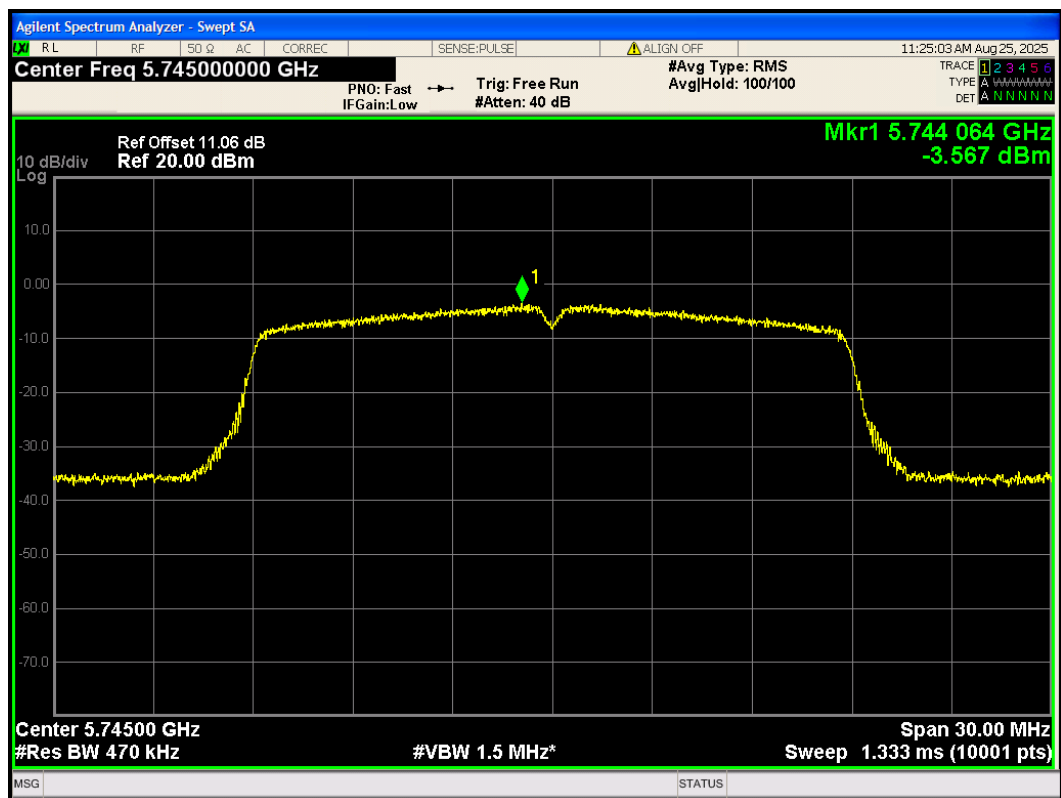
PSD 802.11a 5825MHz



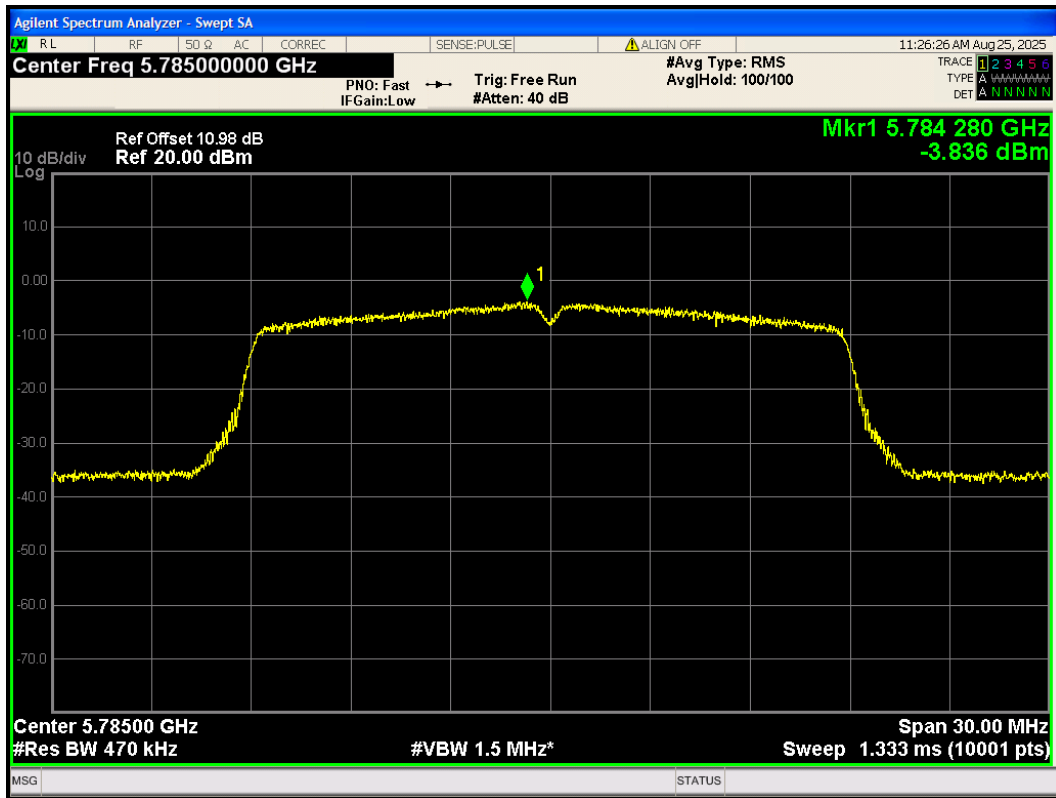
PSD 802.11ac(VHT20) 5720MHz



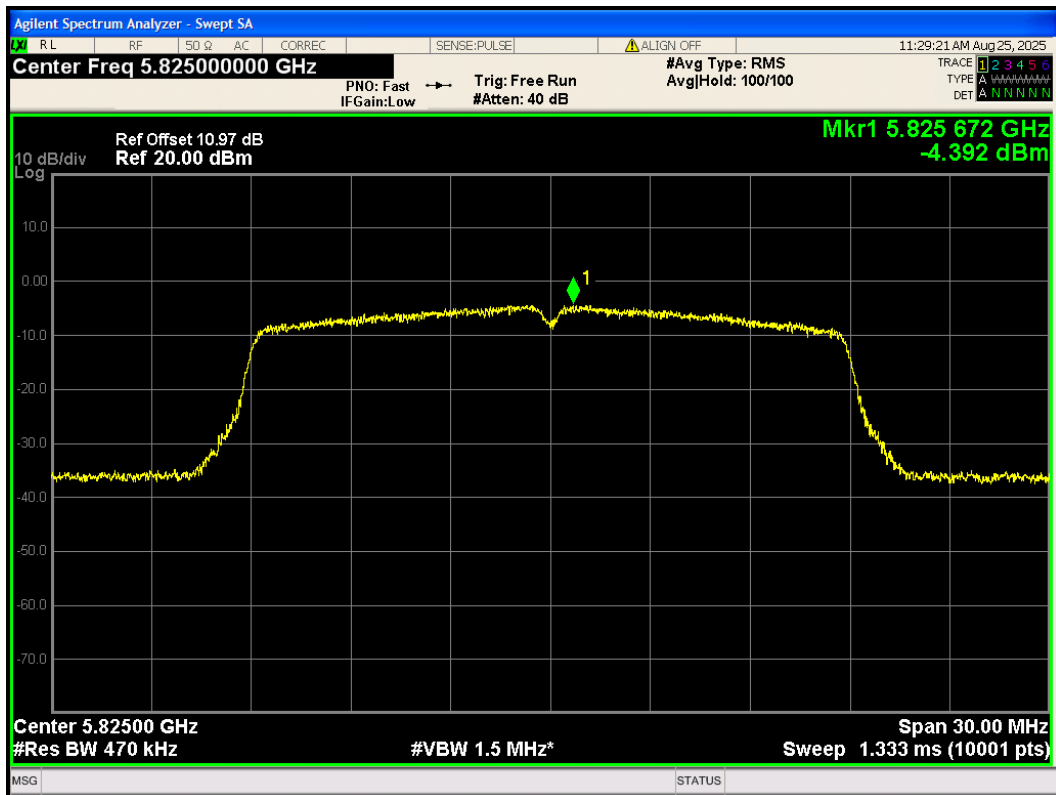
PSD 802.11ac(VHT20) 5745MHz



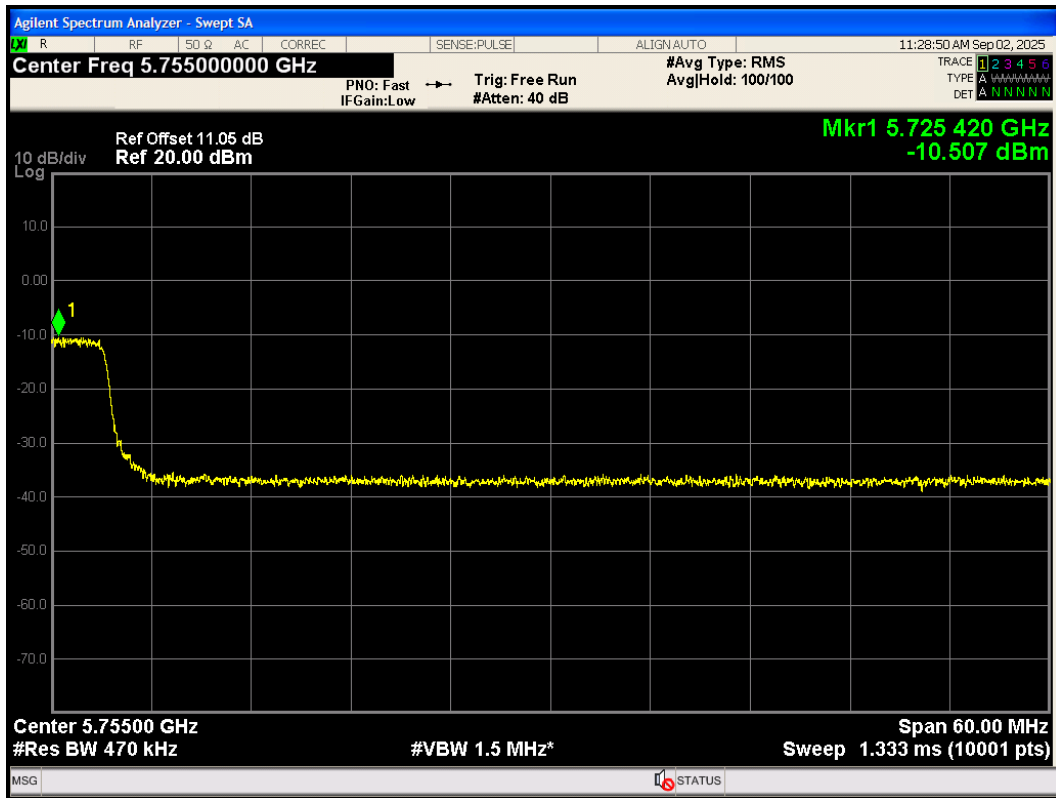
PSD 802.11ac(VHT20) 5785MHz



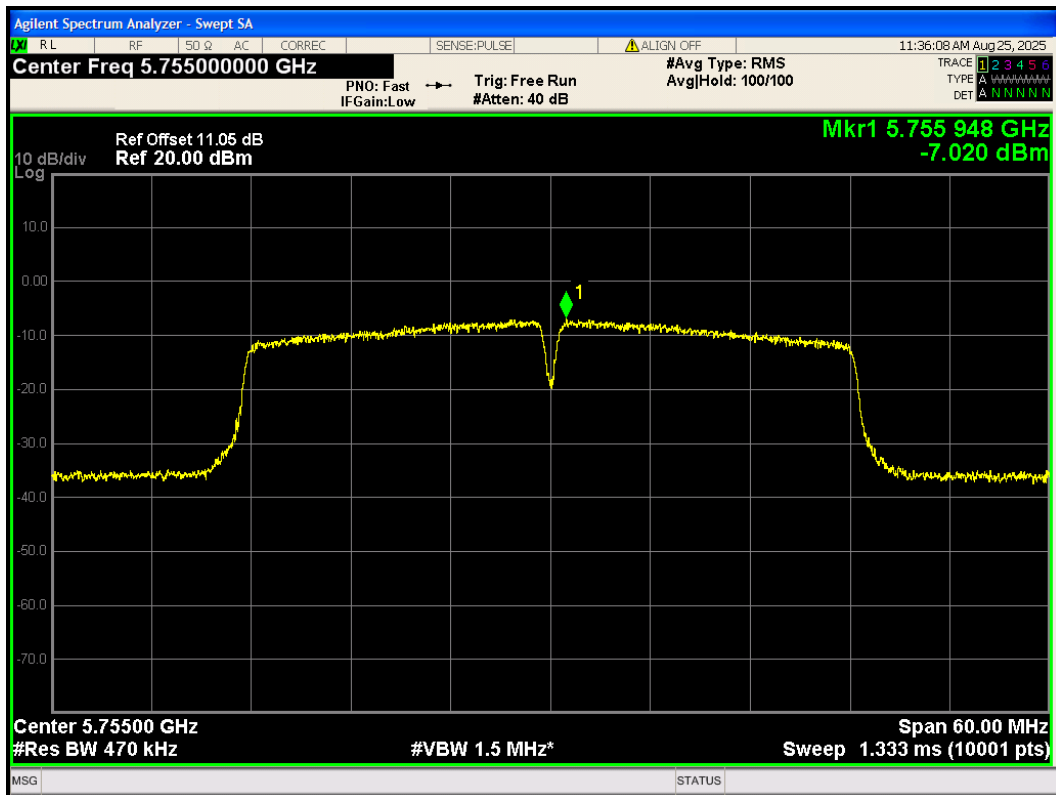
PSD 802.11ac(VHT20) 5825MHz



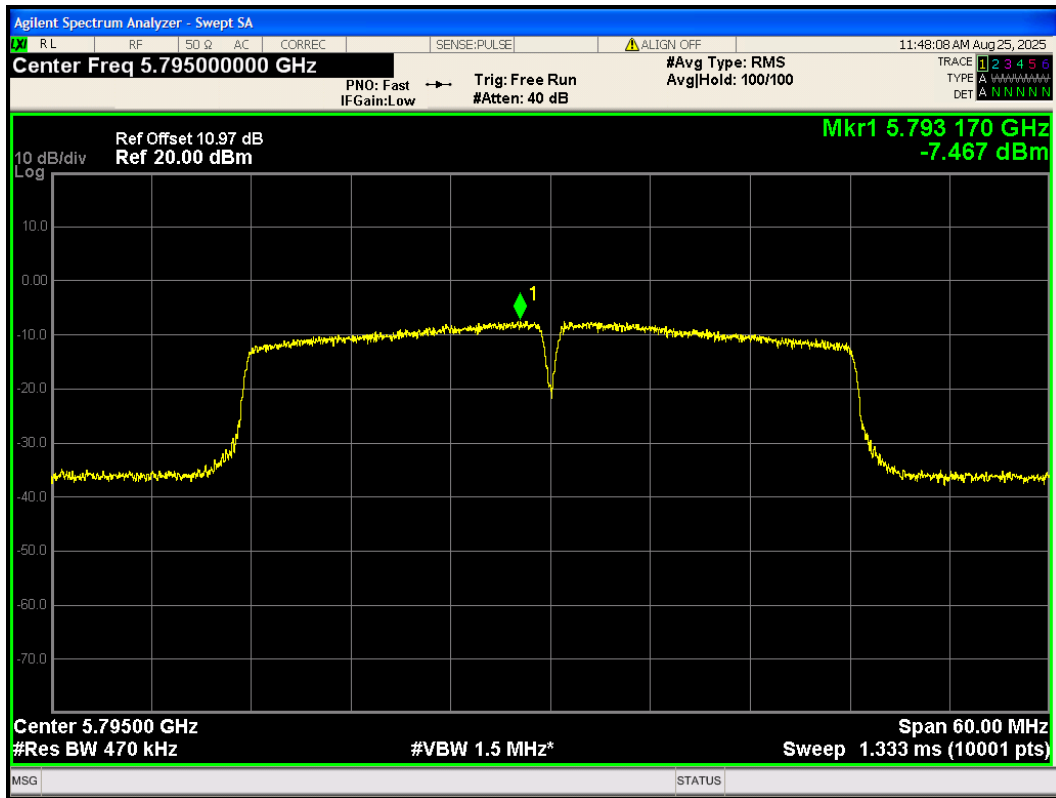
PSD 802.11ac(VHT40) 5710MHz



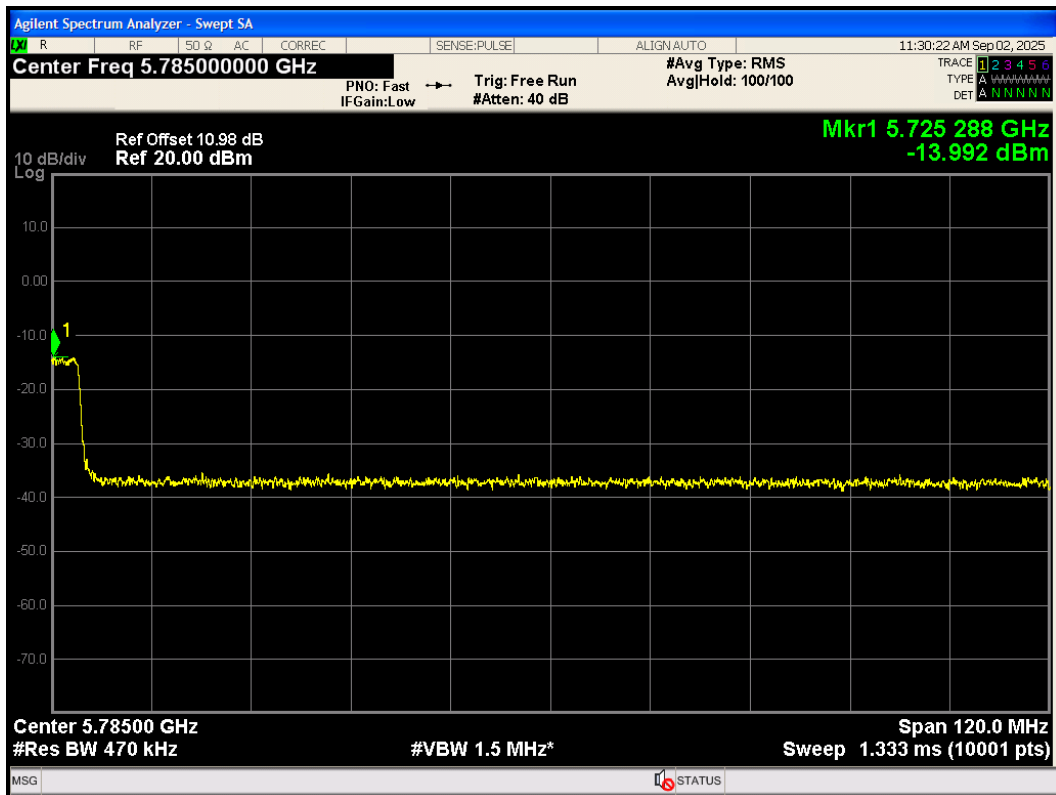
PSD 802.11ac(VHT40) 5755MHz



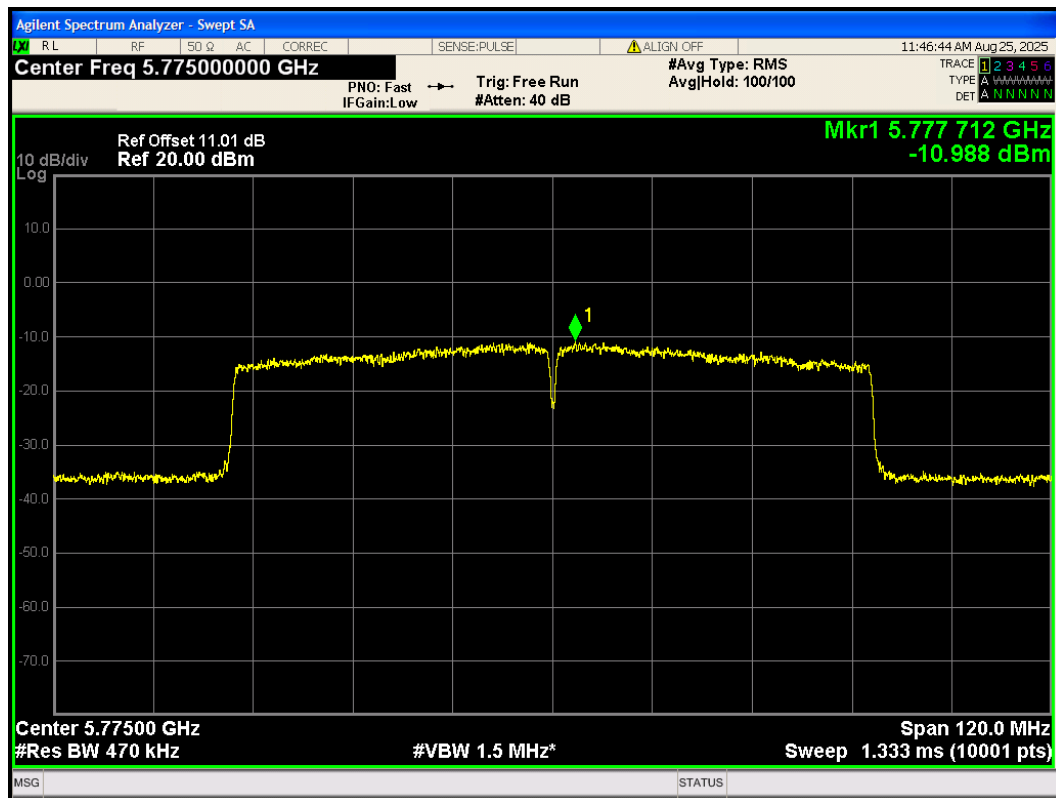
PSD 802.11ac(VHT40) 5795MHz



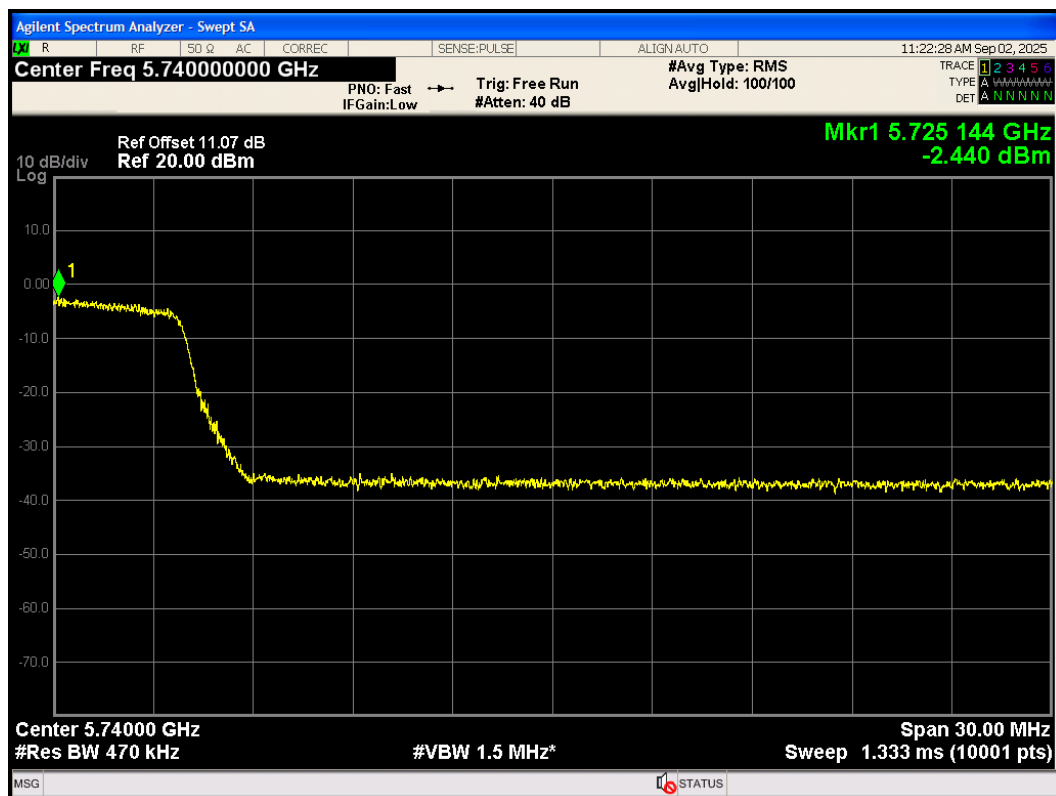
PSD 802.11ac(VHT80) 5690MHz



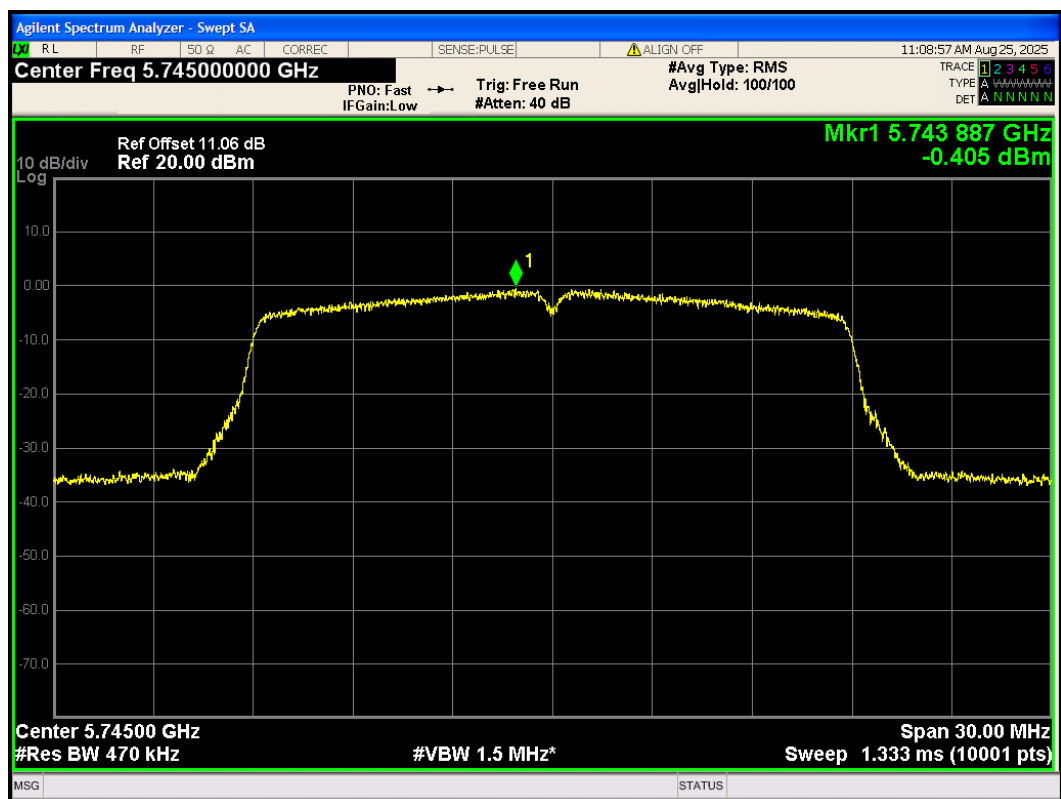
PSD 802.11ac(VHT80) 5775MHz



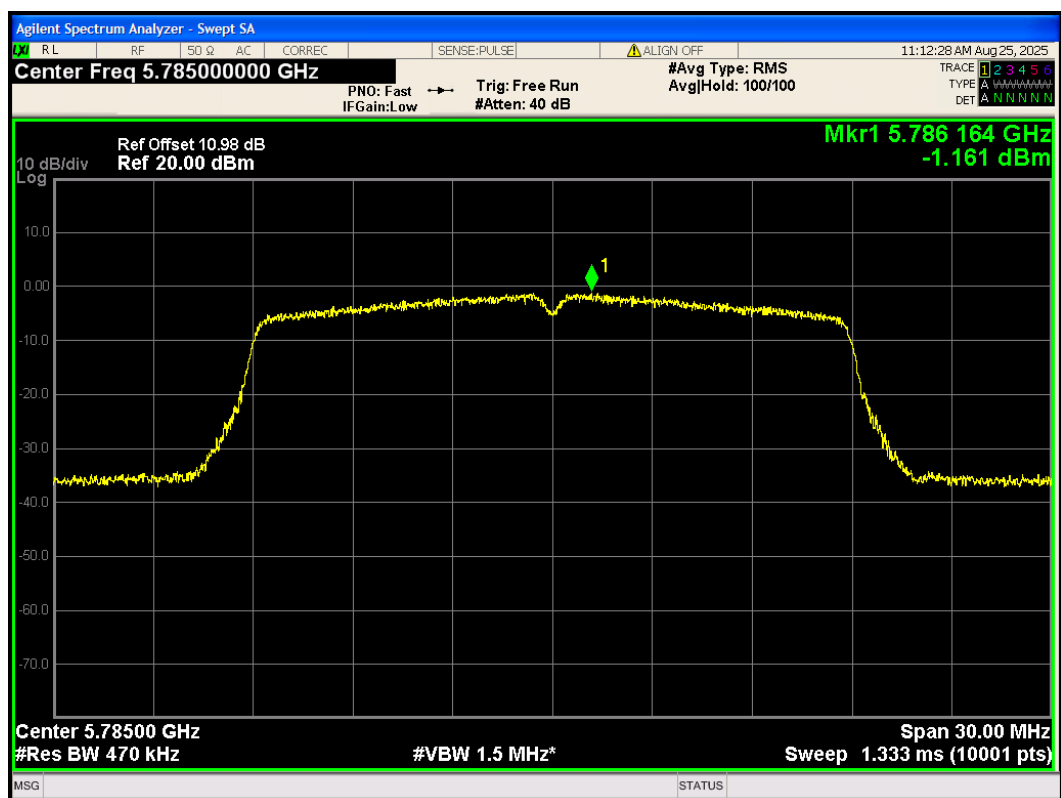
PSD 802.11n(HT20) 5720MHz



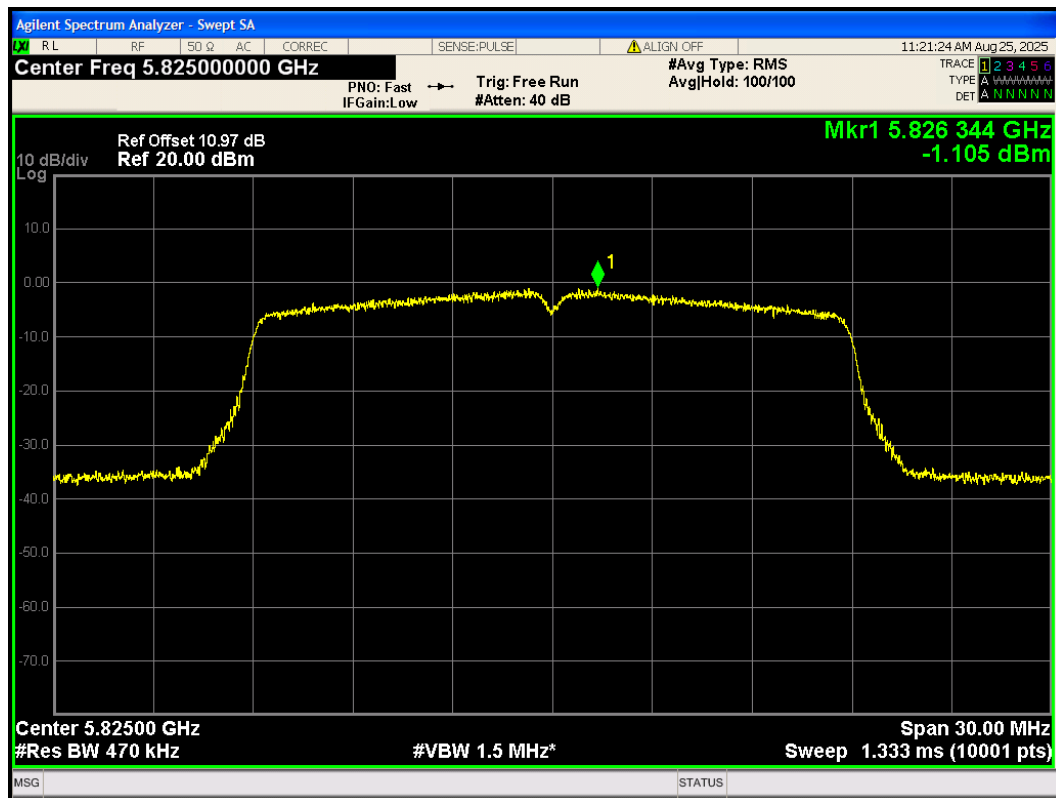
PSD 802.11n(HT20) 5745MHz



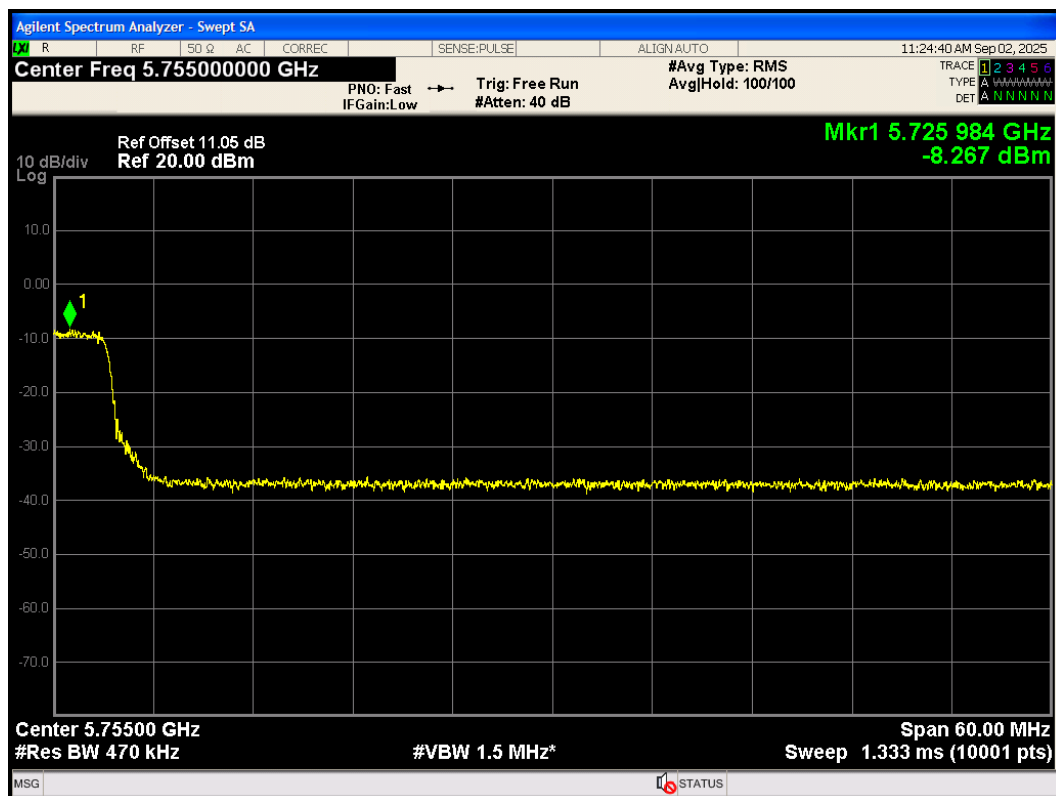
PSD 802.11n(HT20) 5785MHz



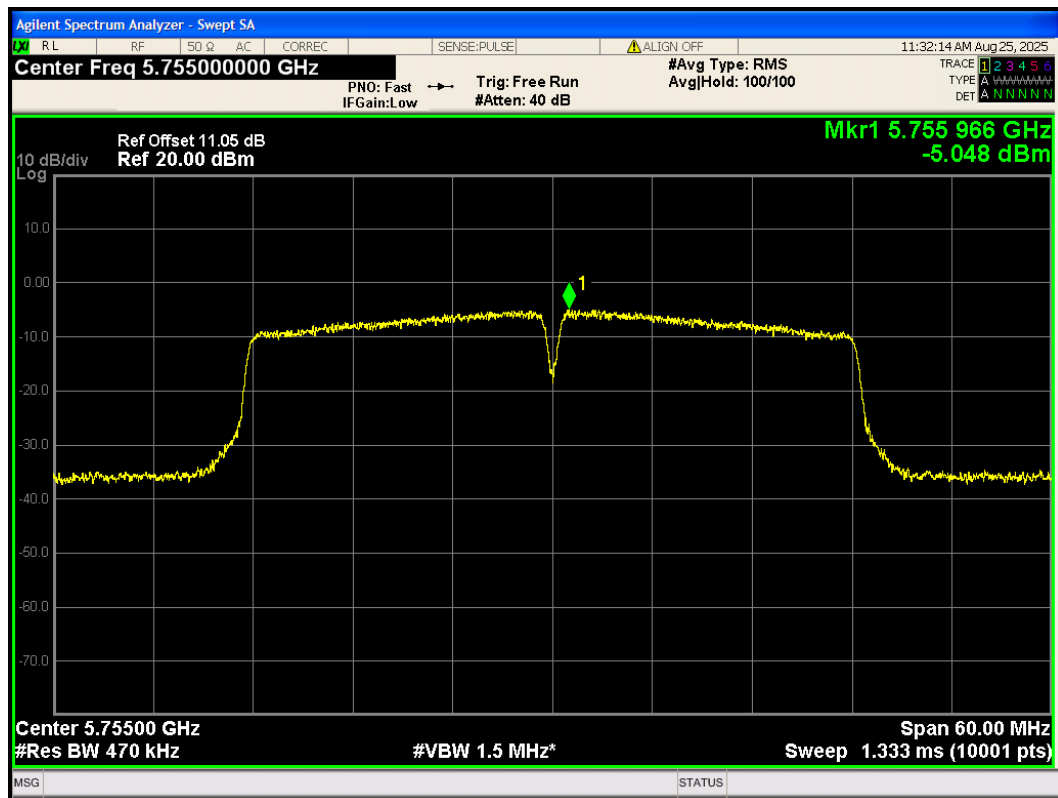
PSD 802.11n(HT20) 5825MHz



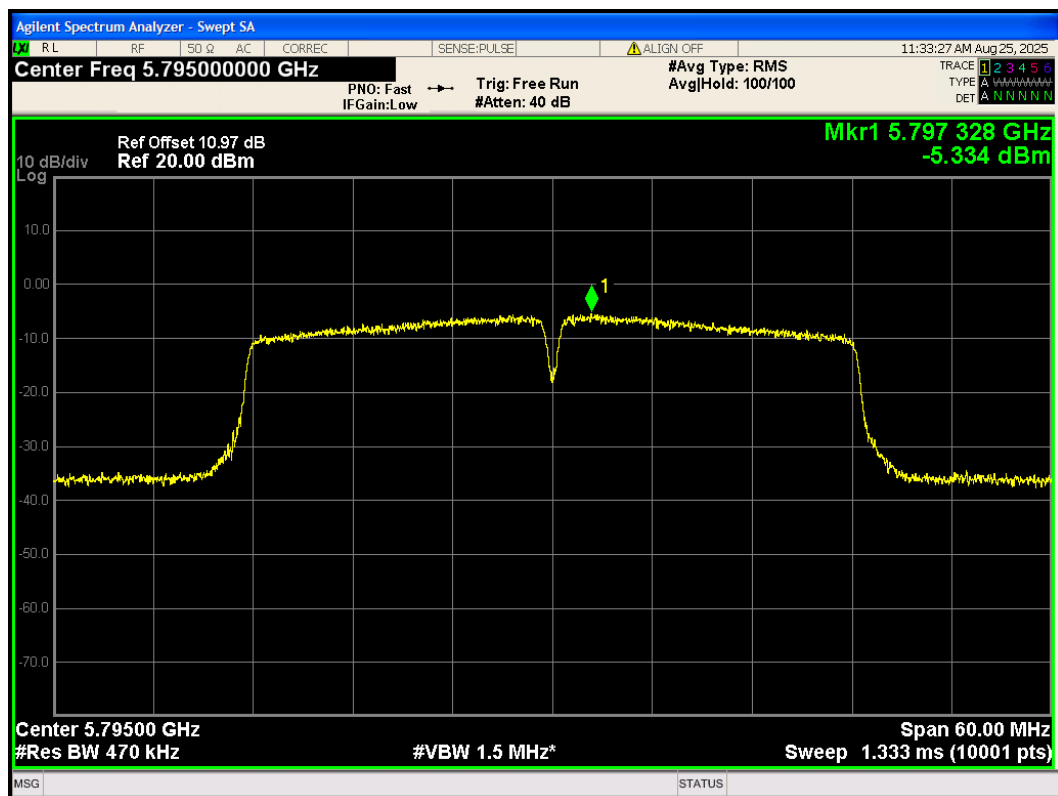
PSD 802.11n(HT40) 5710MHz



PSD 802.11n(HT40) 5755MHz



PSD 802.11n(HT40) 5795MHz



6.5. Unwanted Emission

The detailed test data see *EFTA25070142-IE-04-R5-ANNEX A Test Result*.

6.6. Conducted Emission

The detailed test data see *EFTA25070142-IE-04-R5-ANNEX A Test Result*.

7. Main Test Instruments

Name	Manufacturer	Type	Serial Number	Calibration Date	Expiration Date
Power sensor	R&S	NRP18S	101954	2025-05-06	2026-05-05
Spectrum Analyzer	KEYSIGHT	N9020A	MY51330870	2025-05-06	2026-05-05
DC Power Supply	UNI-T	UTP1306S+	2205D0517426	2024-12-02	2025-12-01
Climate Chamber	ESPEC	SU-242	93000506	2024-12-02	2025-12-01
Attenuator	HASCO	HA18A-10	0003	/	/
EMI Test Receiver	R&S	ESCI3	100948	2025-05-07	2026-05-06
Signal Analyzer	R&S	FSV40	101186	2025-05-06	2026-05-05
Loop Antenna	SCHWARZBECK	FMZB1519	1519-047	2023-04-16	2026-04-15
TRILOG Broadband Antenna	SCHWARZBECK	VULB 9163	1023	2023-07-14	2026-07-13
Horn Antenna	SCHWARZBECK	BBHA 9120D	430	2024-07-18	2027-07-17
Horn Antenna	ETS-Lindgren	3160-09	00102643	2024-09-24	2027-09-23
Horn Antenna	STEATITE	QSH-SL-26-40 -K-15	16779	2023-01-17	2026-01-16
Amplifier	MicroWave	KLNA-180400 50	220826001	2025-05-06	2026-05-05
Software	R&S	EMC32	9.26.01	/	/
Artificial main network	R&S	ENV216	101171	2024-12-02	2026-12-01
EMI Test Receiver	R&S	ESR	101667	2025-05-06	2026-05-05
Software	R&S	EMC32	10.35.10	/	/

8. The EUT Appearance

Refer to *EUT Appearance*.

9. Test Setup Photos

Refer to *Part15E Test Setup*.

***** END OF REPORT *****