

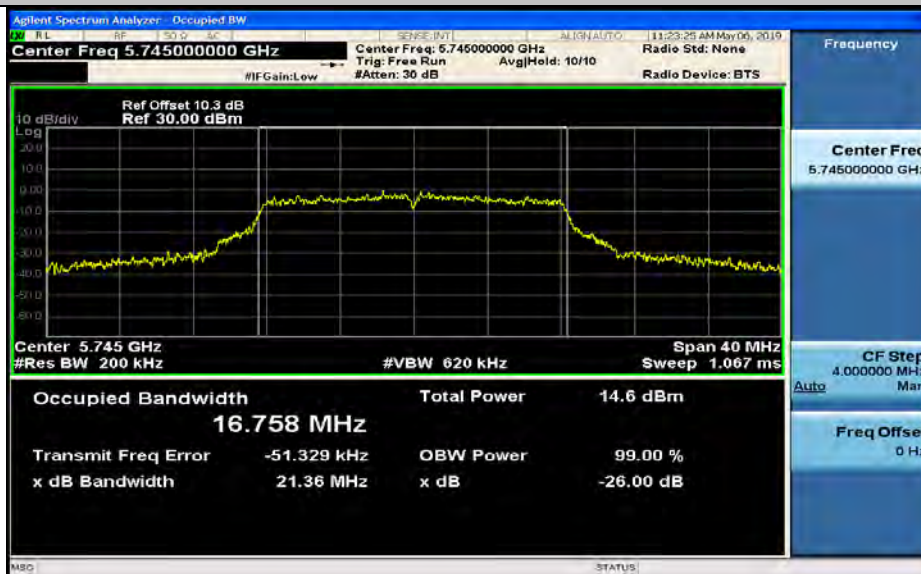


Appendix B SHEM190401242302

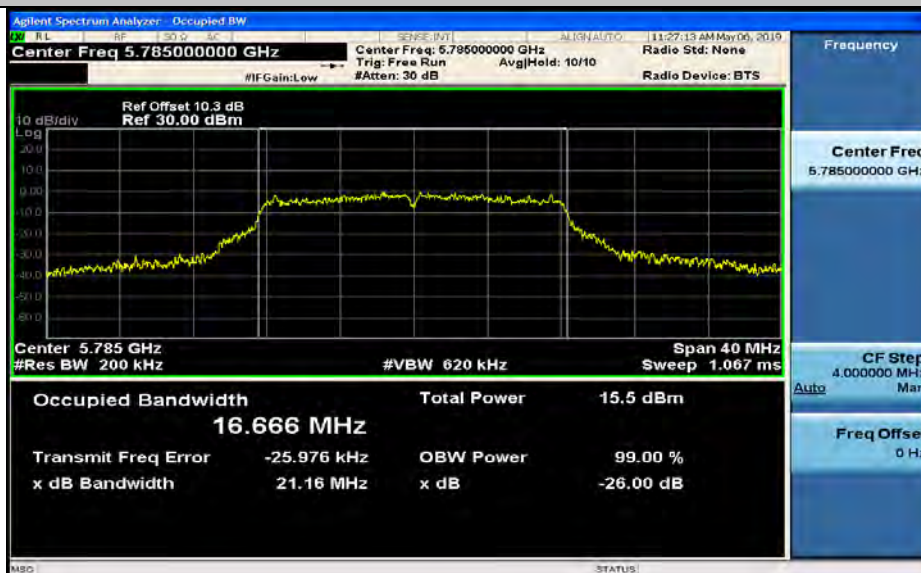
1.(26dB)Emission Bandwidth Measurement

Test Mode	Test Channel	Ant	(26dB)EBW[MHz]	Limit[MHz]	Verdict
11A	5745	Ant1	21.36	---	PASS
11A	5785	Ant1	21.16	---	PASS
11A	5825	Ant1	21.51	---	PASS
11N20	5745	Ant1	21.58	---	PASS
11N20	5785	Ant1	21.40	---	PASS
11N20	5825	Ant1	21.73	---	PASS
11N40	5755	Ant1	39.40	---	PASS
11N40	5795	Ant1	39.35	---	PASS
11AC20	5745	Ant1	21.43	---	PASS
11AC20	5785	Ant1	21.31	---	PASS
11AC20	5825	Ant1	21.22	---	PASS
11AC40	5755	Ant1	39.71	---	PASS
11AC40	5795	Ant1	39.36	---	PASS
11AC80	5775	Ant1	80.94	---	PASS

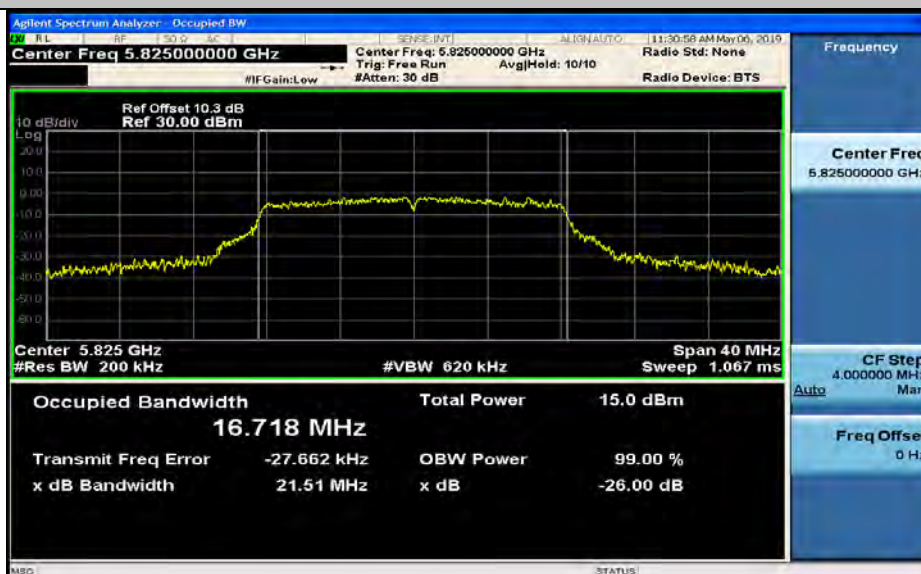
(26dB)Emission Bandwidth Measurement_11A_5745_Ant1



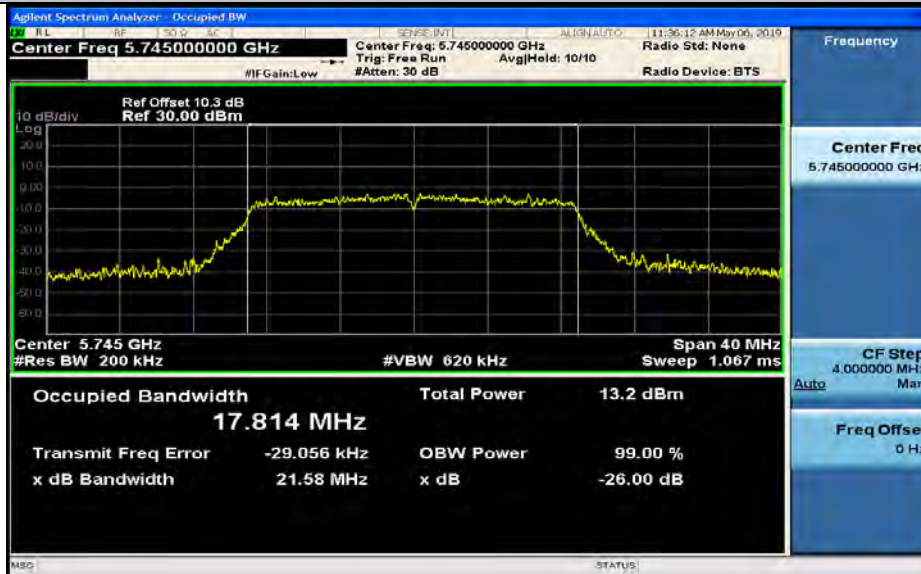
(26dB)Emission Bandwidth Measurement_11A_5785_Ant1



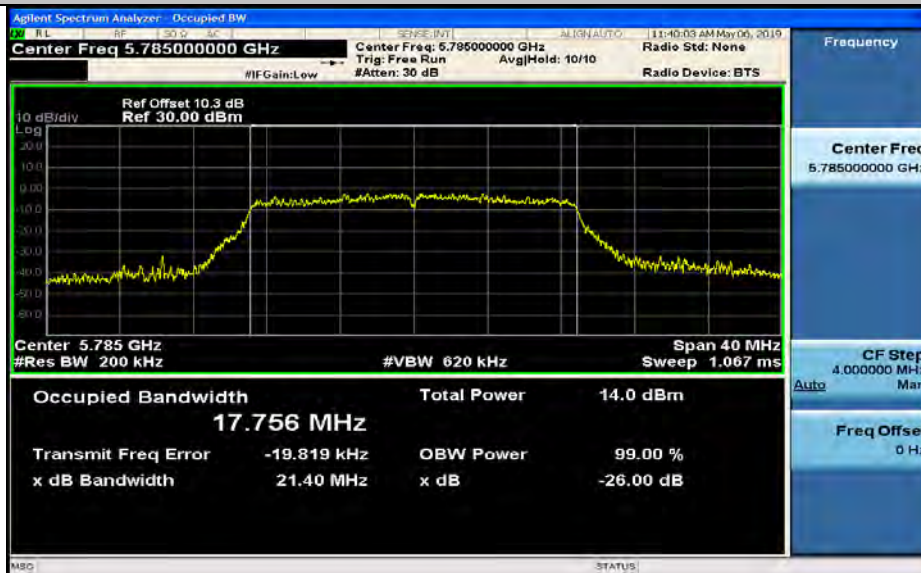
(26dB)Emission Bandwidth Measurement_11A_5825_Ant1



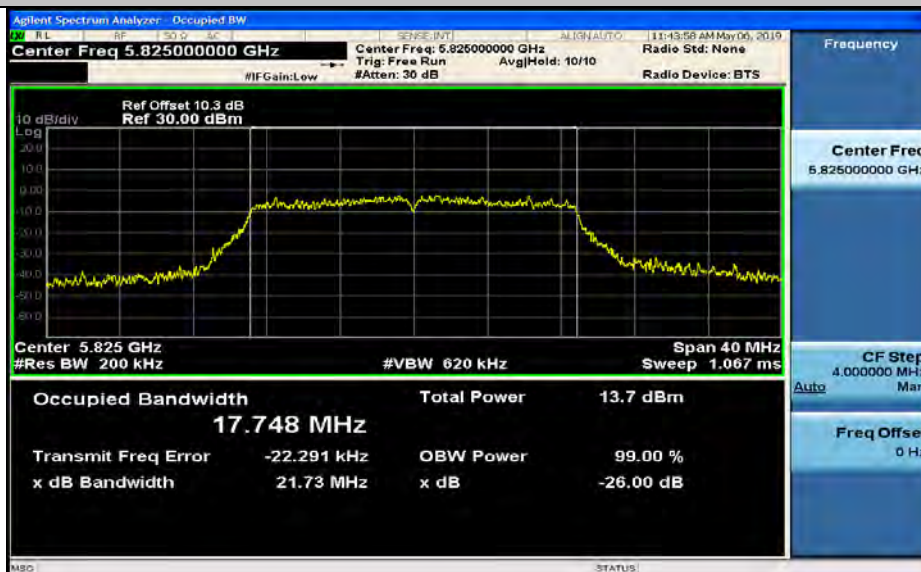
(26dB)Emission Bandwidth Measurement_11N20_5745_Ant1



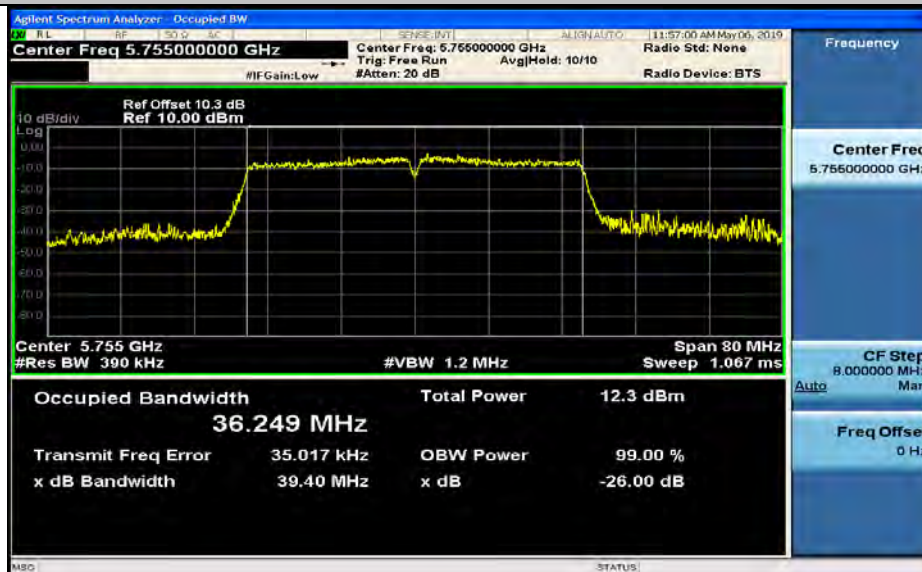
(26dB)Emission Bandwidth Measurement_11N20_5785_Ant1



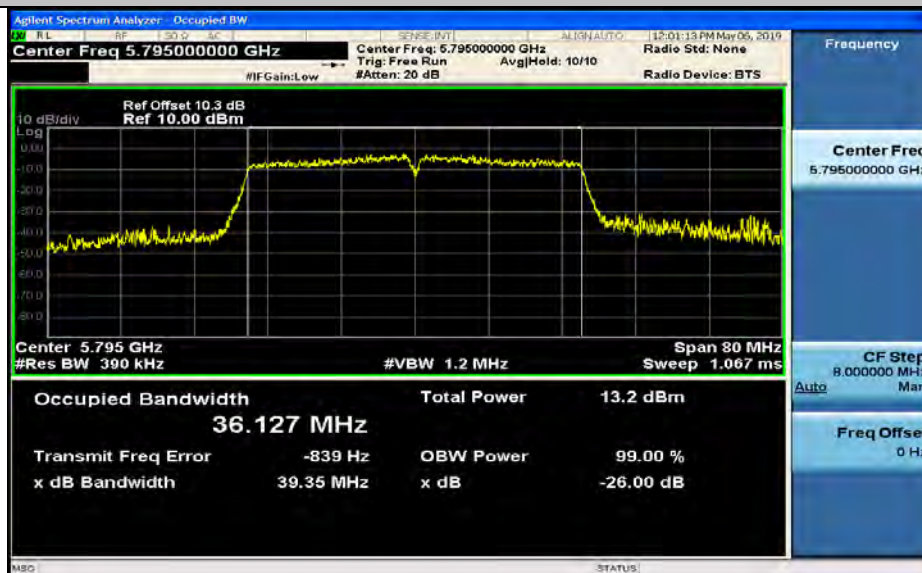
(26dB)Emission Bandwidth Measurement_11N20_5825_Ant1



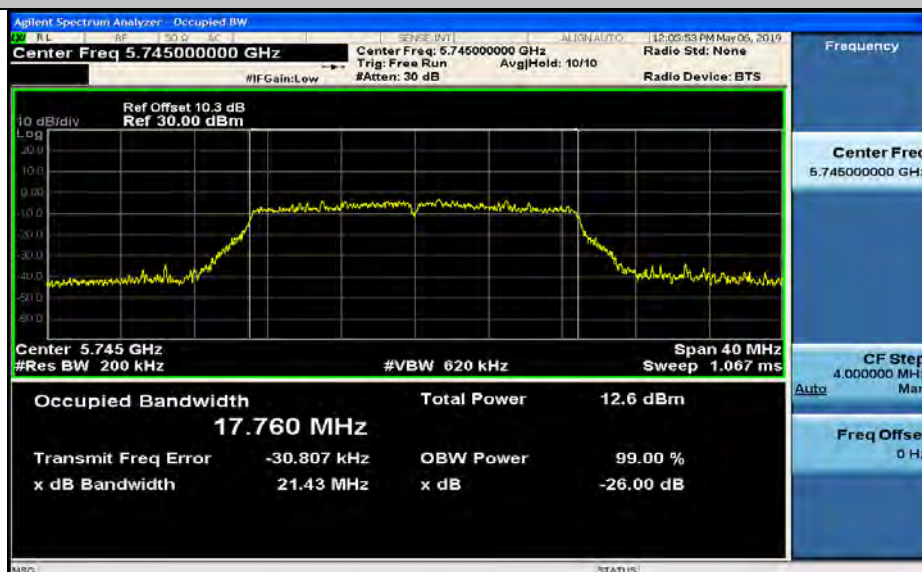
(26dB)Emission Bandwidth Measurement_11N40_5755_Ant1



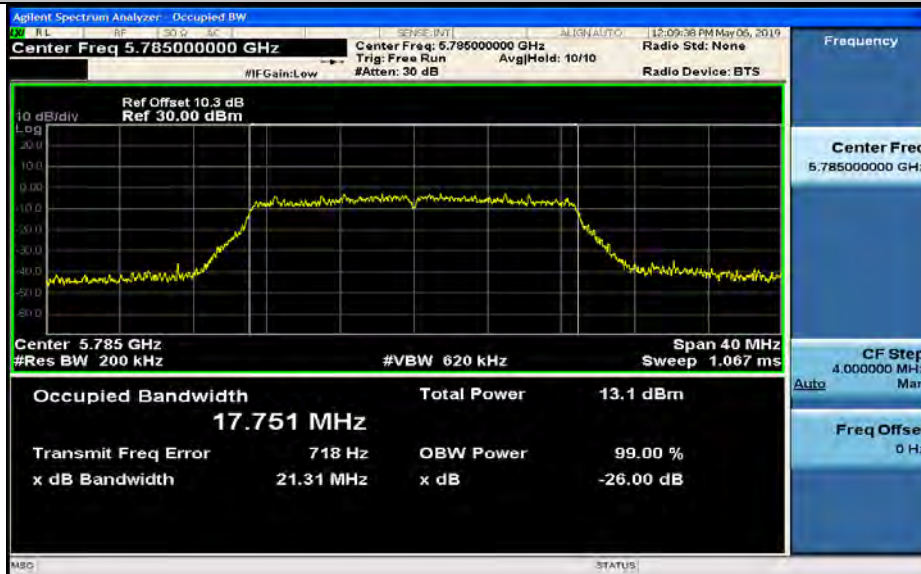
(26dB)Emission Bandwidth Measurement_11N40_5795_Ant1



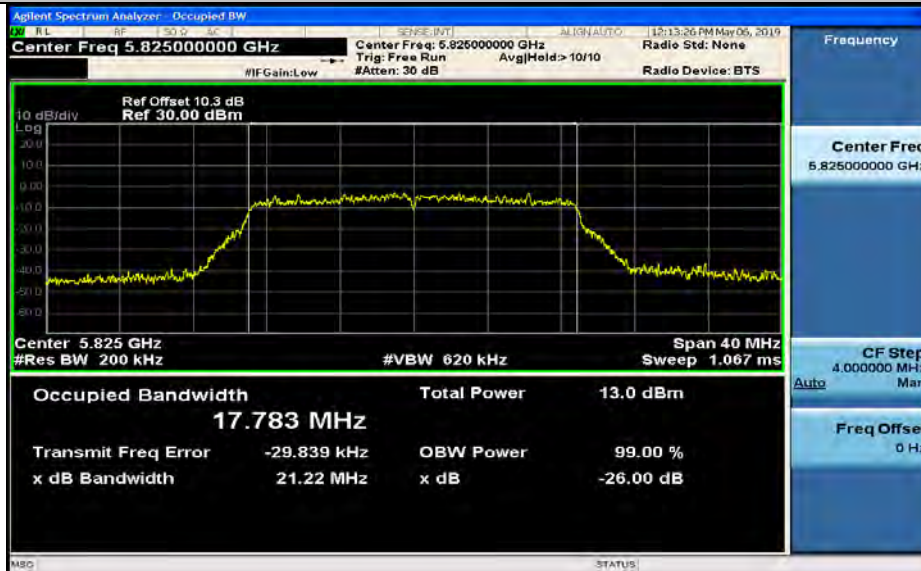
(26dB)Emission Bandwidth Measurement_11AC20_5745_Ant1



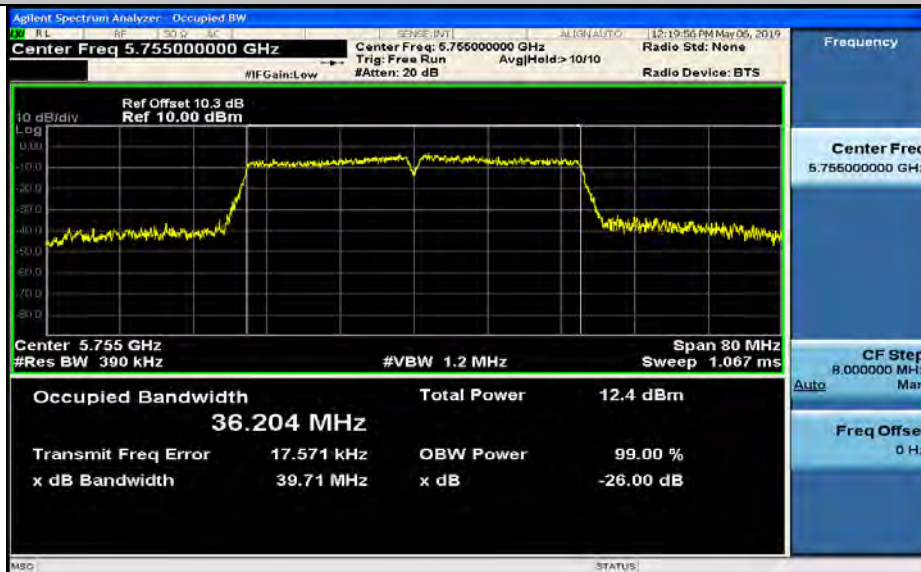
(26dB)Emission Bandwidth Measurement_11AC20_5785_Ant1



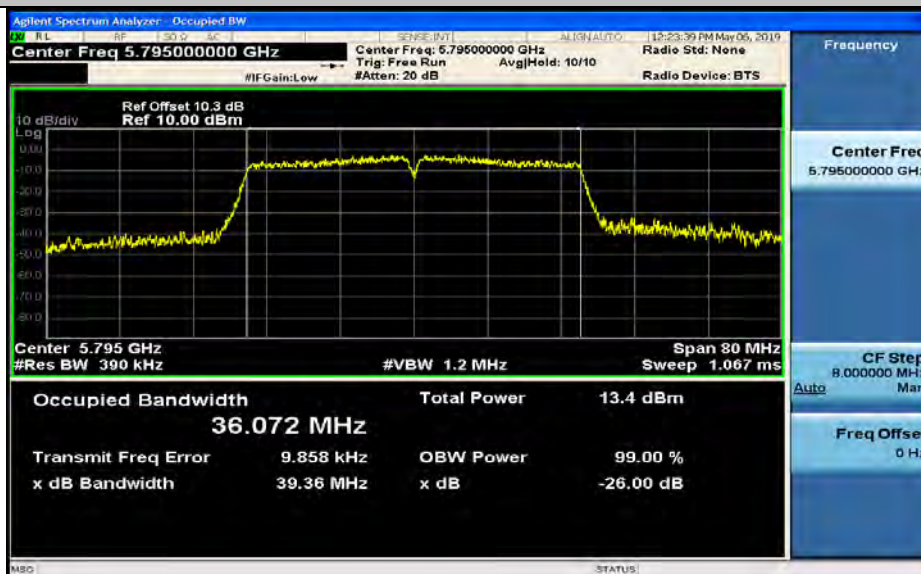
(26dB)Emission Bandwidth Measurement_11AC20_5825_Ant1



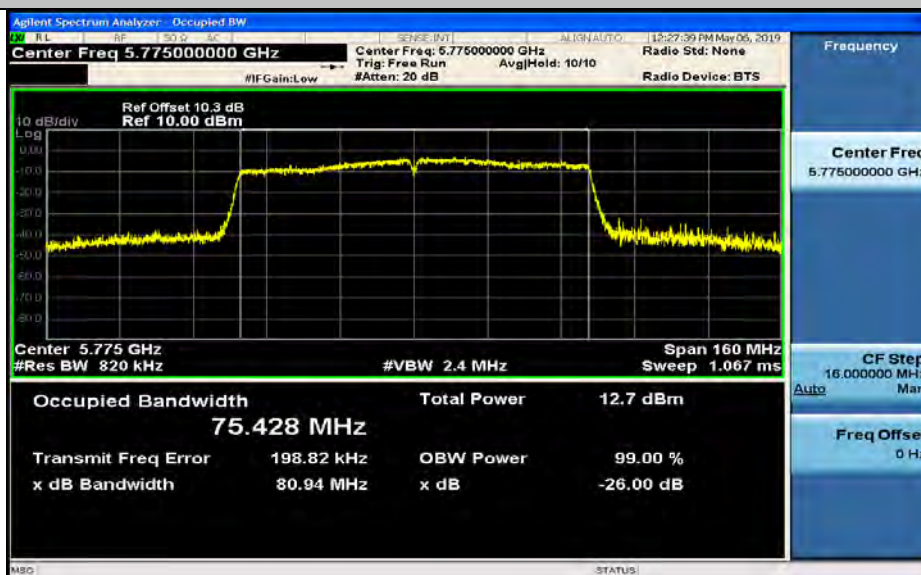
(26dB)Emission Bandwidth Measurement_11AC40_5755_Ant1



(26dB)Emission Bandwidth Measurement_11AC40_5795_Ant1



(26dB)Emission Bandwidth Measurement_11AC80_5775_Ant1

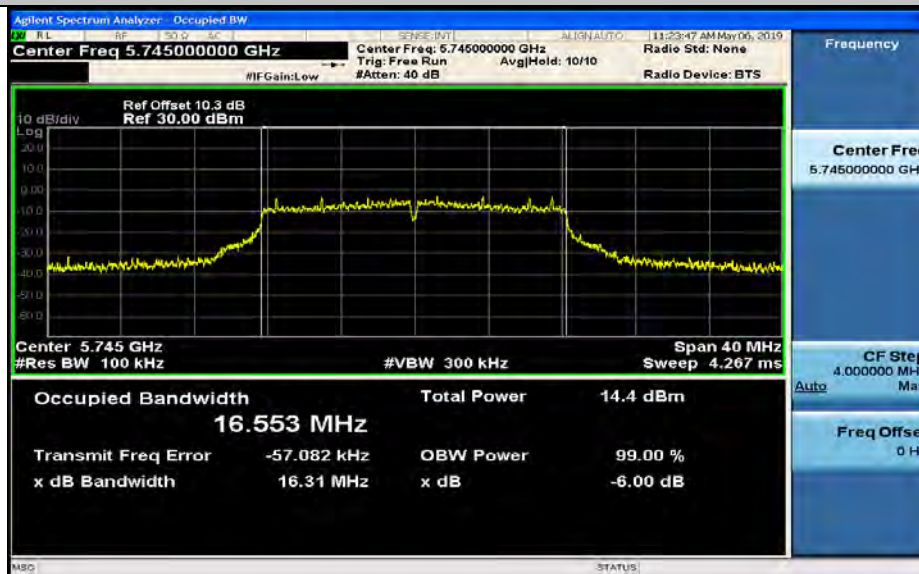




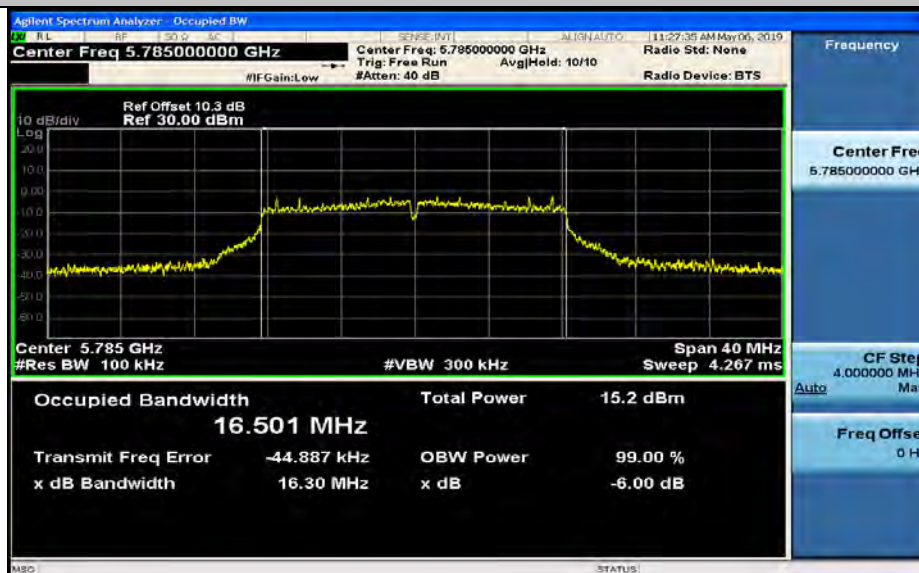
2.(6dB)Minimum Emission Bandwidth Measurement

Test Mode	Test Channel	Ant	(6dB)EBW[MHz]	Limit[MHz]	Verdict
11A	5745	Ant1	16.31	0.5	PASS
11A	5785	Ant1	16.30	0.5	PASS
11A	5825	Ant1	16.32	0.5	PASS
11N20	5745	Ant1	16.96	0.5	PASS
11N20	5785	Ant1	16.36	0.5	PASS
11N20	5825	Ant1	17.54	0.5	PASS
11N40	5755	Ant1	35.60	0.5	PASS
11N40	5795	Ant1	35.46	0.5	PASS
11AC20	5745	Ant1	17.56	0.5	PASS
11AC20	5785	Ant1	16.40	0.5	PASS
11AC20	5825	Ant1	17.30	0.5	PASS
11AC40	5755	Ant1	35.75	0.5	PASS
11AC40	5795	Ant1	35.48	0.5	PASS
11AC80	5775	Ant1	75.16	0.5	PASS

(6dB)Minimum Emission Bandwidth Measurement_11A_5745_Ant1



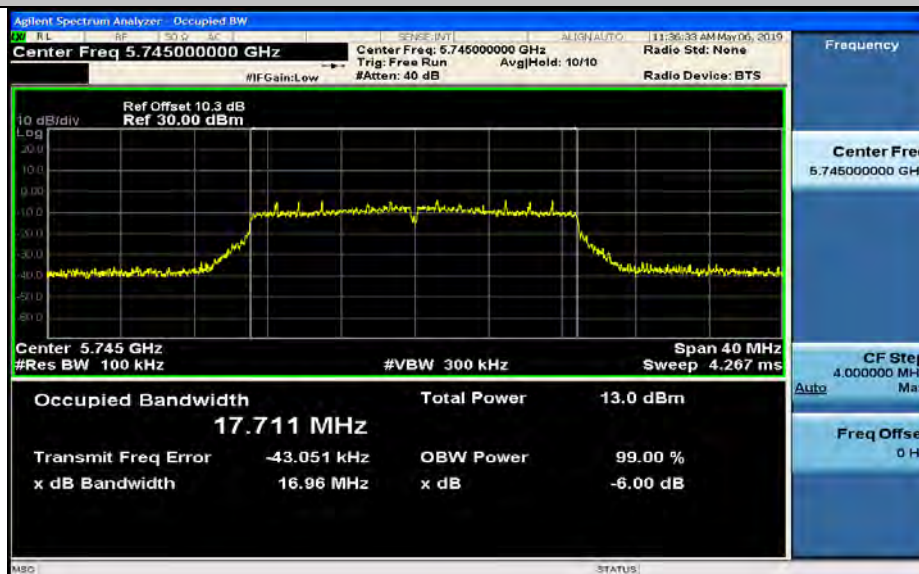
(6dB)Minimum Emission Bandwidth Measurement_11A_5785_Ant1



(6dB)Minimum Emission Bandwidth Measurement_11A_5825_Ant1



(6dB)Minimum Emission Bandwidth Measurement_11N20_5745_Ant1



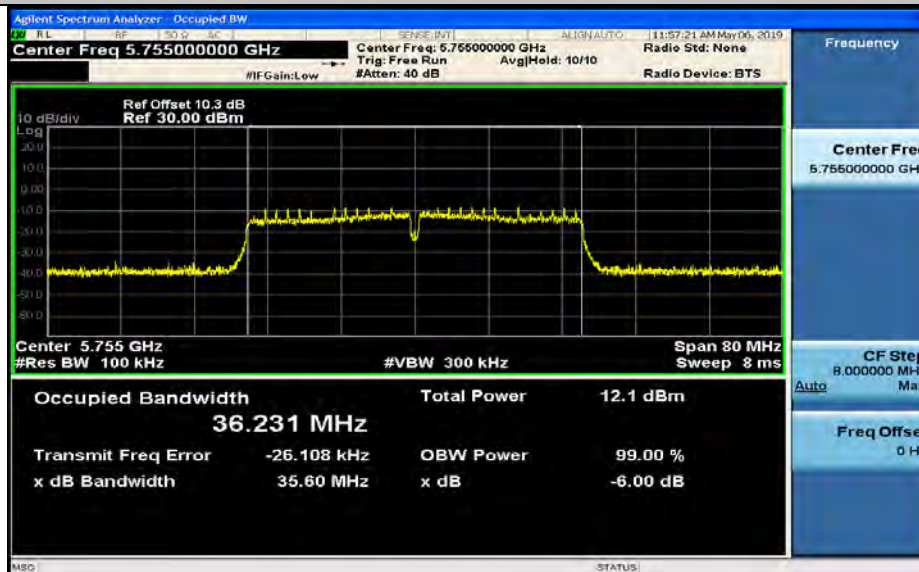
(6dB)Minimum Emission Bandwidth Measurement_11N20_5785_Ant1



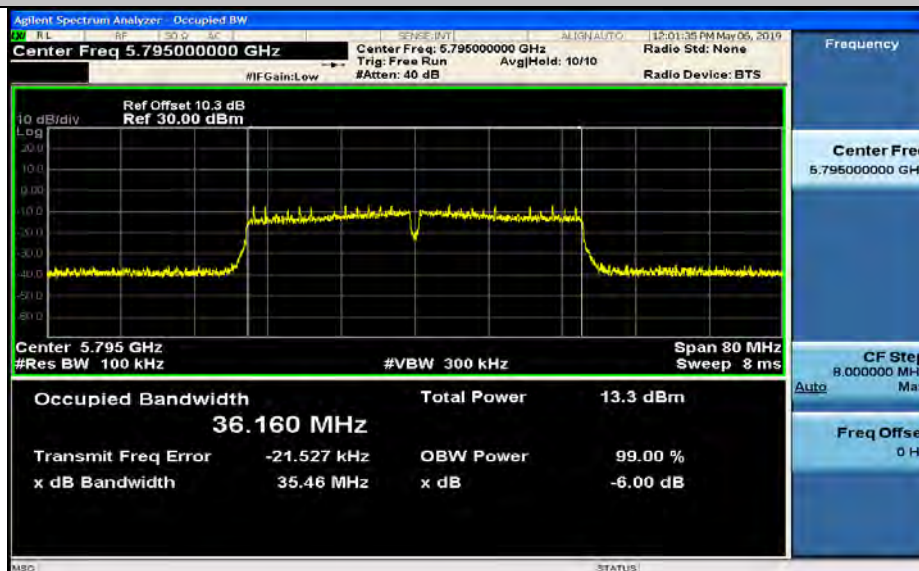
(6dB)Minimum Emission Bandwidth Measurement_11N20_5825_Ant1



(6dB)Minimum Emission Bandwidth Measurement_11N40_5755_Ant1



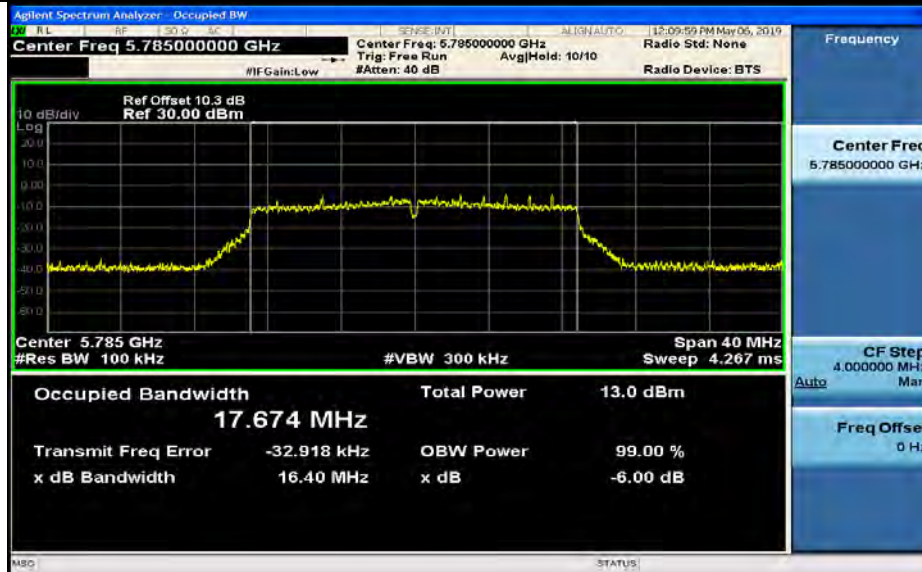
(6dB)Minimum Emission Bandwidth Measurement_11N40_5795_Ant1



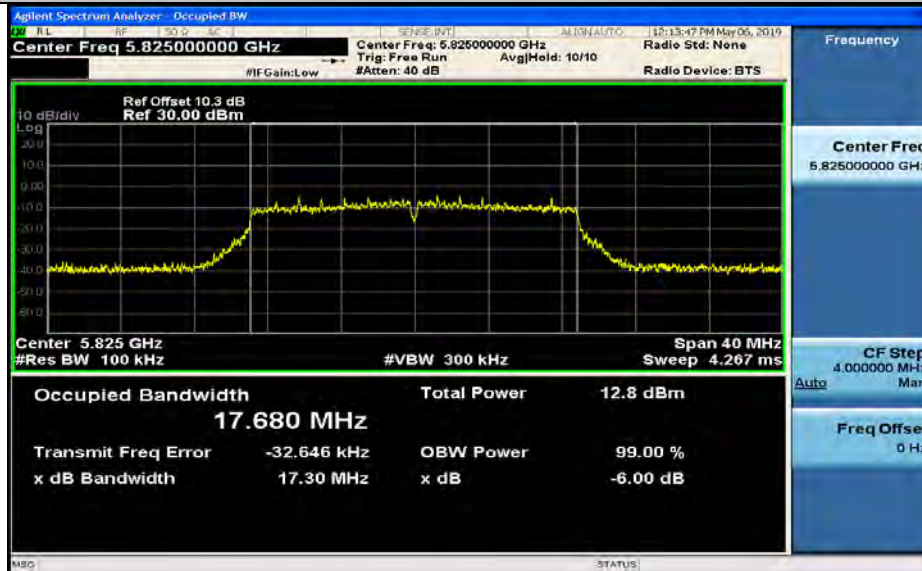
(6dB)Minimum Emission Bandwidth Measurement_11AC20_5745_Ant1



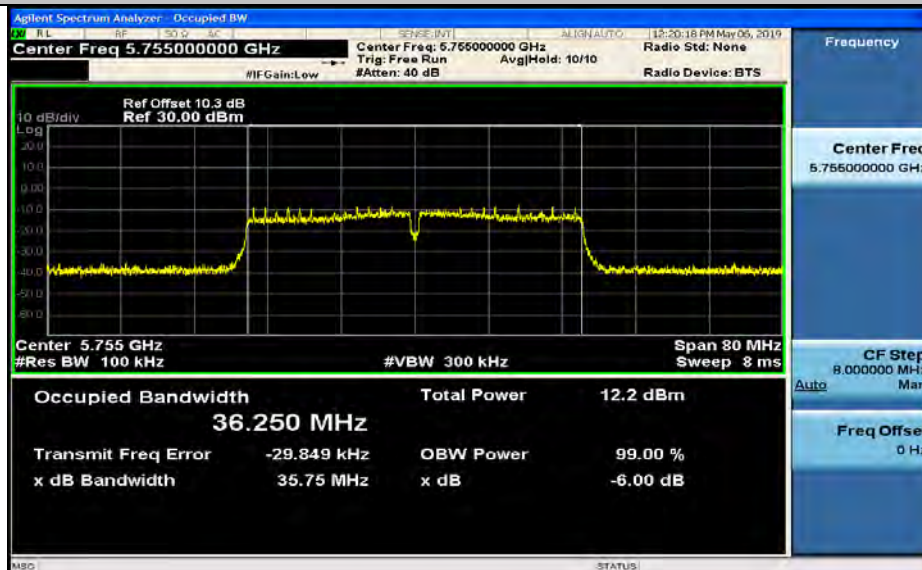
(6dB)Minimum Emission Bandwidth Measurement_11AC20_5785_Ant1



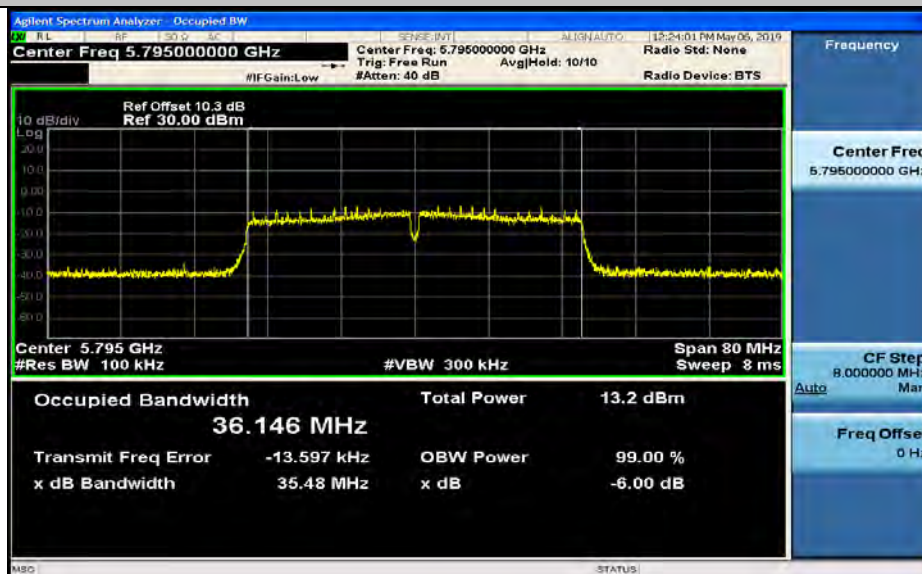
(6dB)Minimum Emission Bandwidth Measurement_11AC20_5825_Ant1



(6dB)Minimum Emission Bandwidth Measurement_11AC40_5755_Ant1



(6dB)Minimum Emission Bandwidth Measurement_11AC40_5795_Ant1



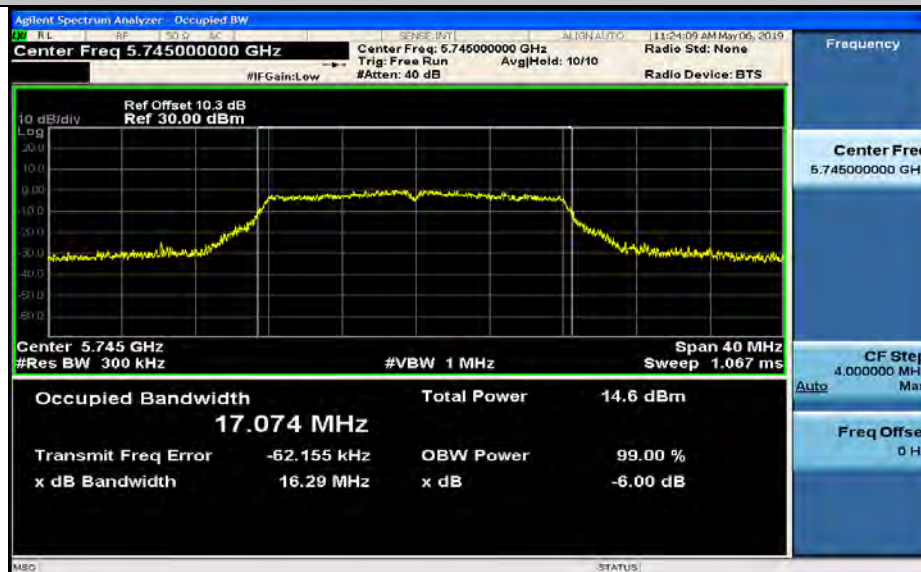
(6dB)Minimum Emission Bandwidth Measurement_11AC80_5775_Ant1



3.Occupied Bandwidth Measurement

Test Mode	Test Channel	Ant	OBW[MHz]	Limit[MHz]	Verdict
11A	5745	Ant1	17.07	---	PASS
11A	5785	Ant1	17.01	---	PASS
11A	5825	Ant1	17.07	---	PASS
11N20	5745	Ant1	18.05	---	PASS
11N20	5785	Ant1	18.02	---	PASS
11N20	5825	Ant1	18.04	---	PASS
11N40	5755	Ant1	36.78	---	PASS
11N40	5795	Ant1	36.52	---	PASS
11AC20	5745	Ant1	18.05	---	PASS
11AC20	5785	Ant1	17.98	---	PASS
11AC20	5825	Ant1	18.05	---	PASS
11AC40	5755	Ant1	36.72	---	PASS
11AC40	5795	Ant1	36.61	---	PASS
11AC80	5775	Ant1	76.14	---	PASS

Occupied Bandwidth Measurement_11A_5745_Ant1



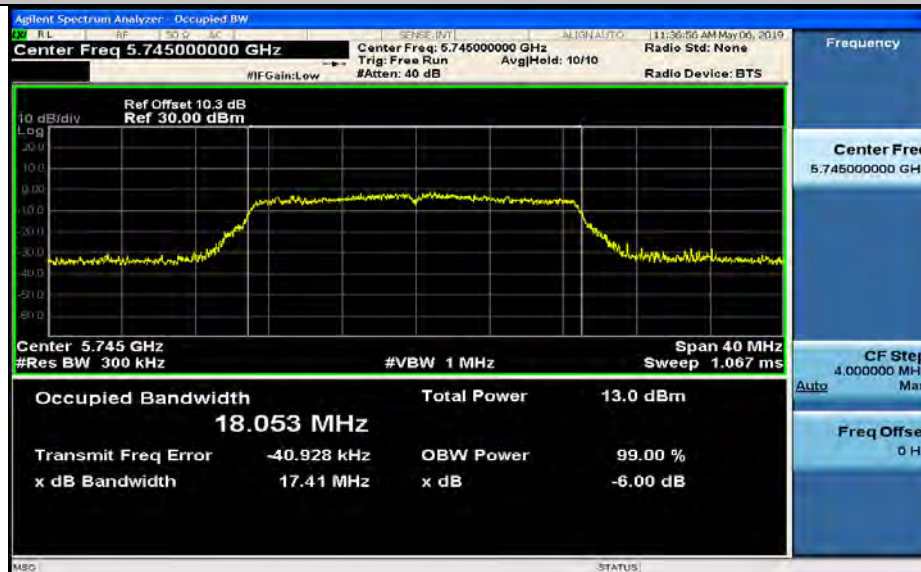
Occupied Bandwidth Measurement_11A_5785_Ant1



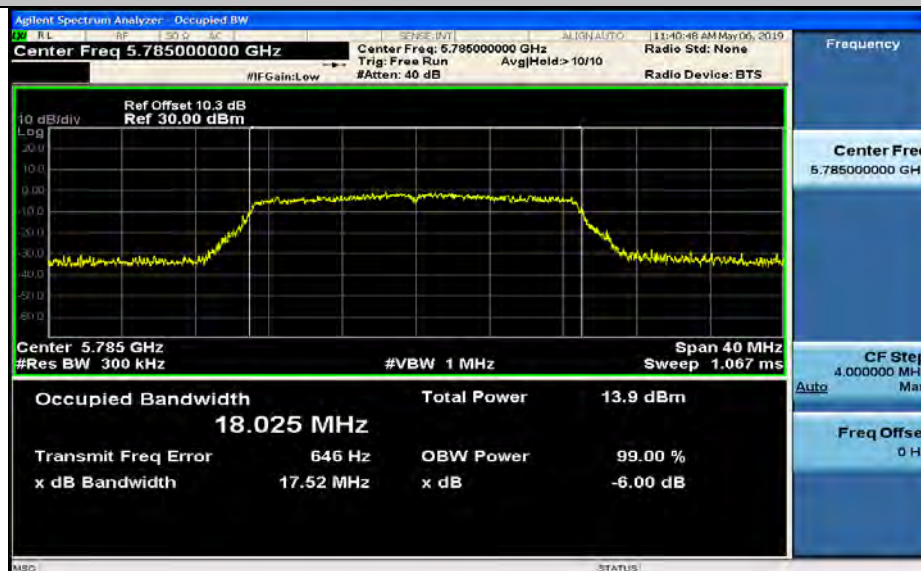
Occupied Bandwidth Measurement_11A_5825_Ant1



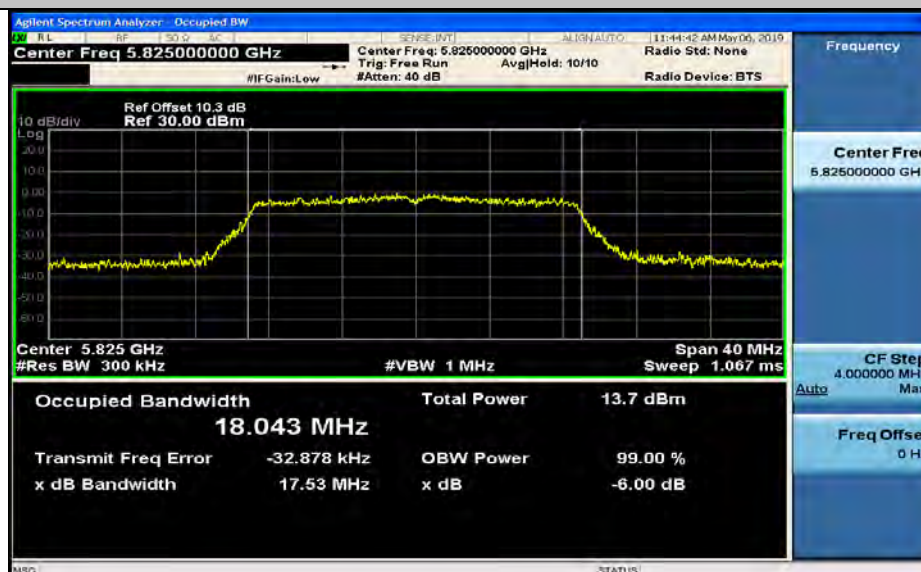
Occupied Bandwidth Measurement_11N20_5745_Ant1



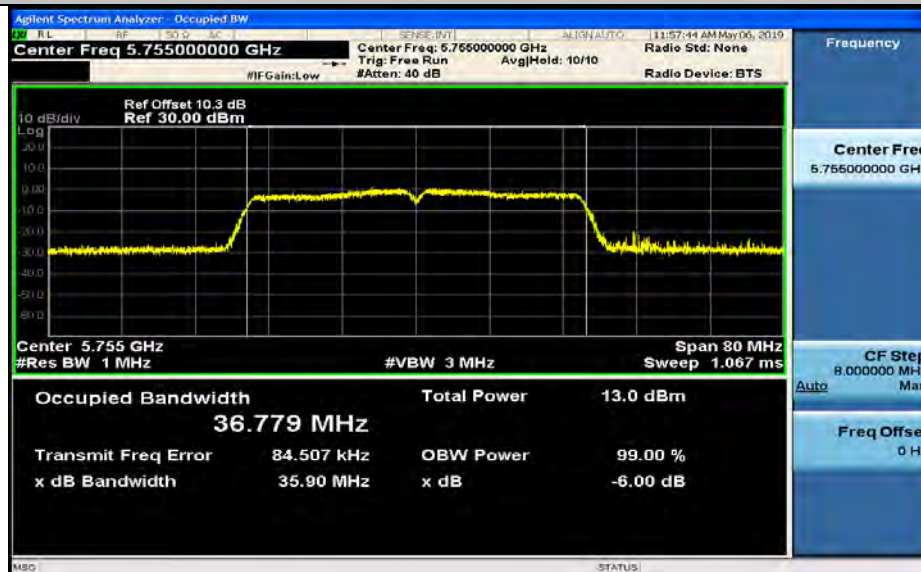
Occupied Bandwidth Measurement_11N20_5785_Ant1



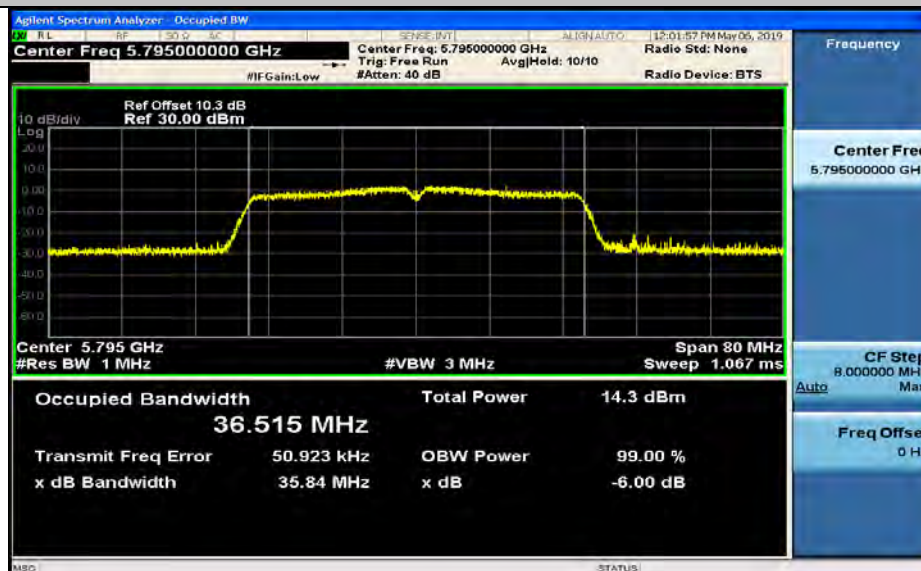
Occupied Bandwidth Measurement_11N20_5825_Ant1



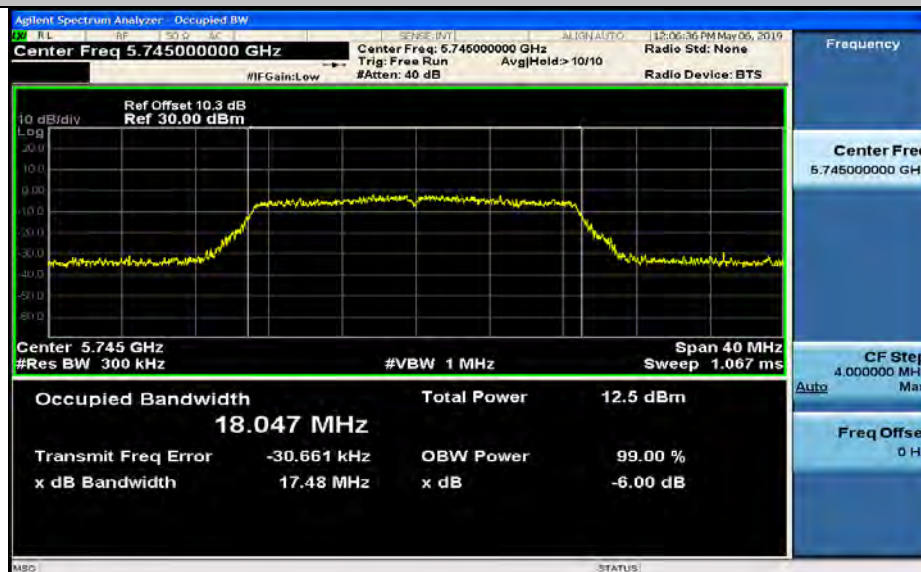
Occupied Bandwidth Measurement_11N40_5755_Ant1



Occupied Bandwidth Measurement_11N40_5795_Ant1



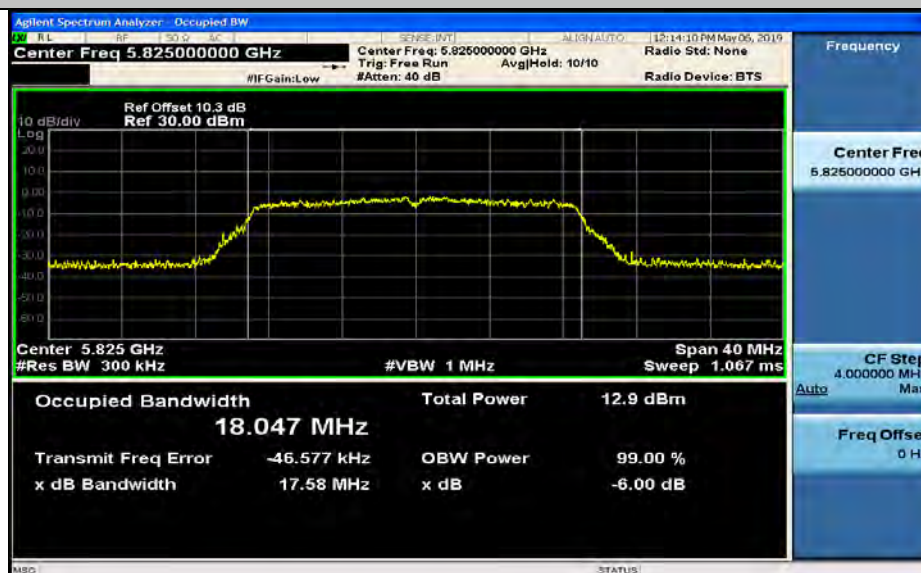
Occupied Bandwidth Measurement_11AC20_5745_Ant1



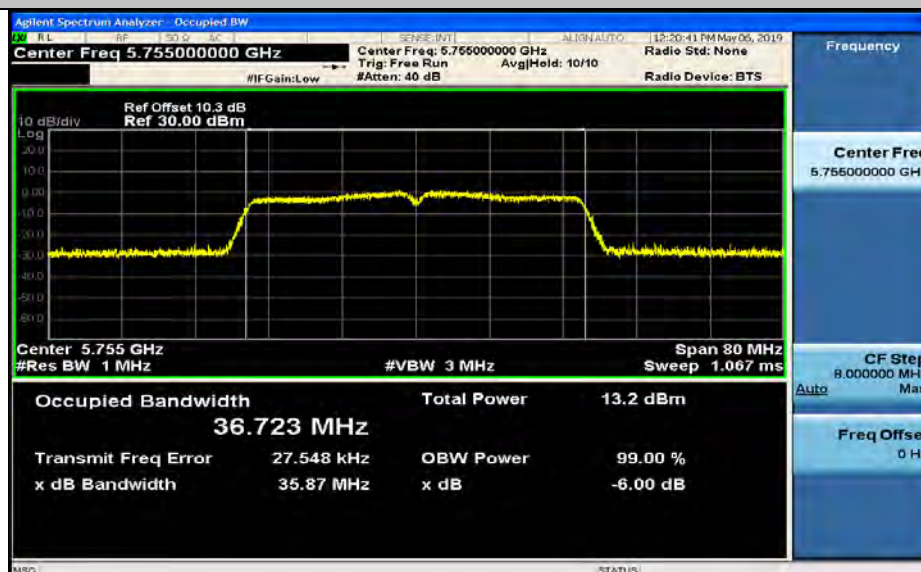
Occupied Bandwidth Measurement_11AC20_5785_Ant1



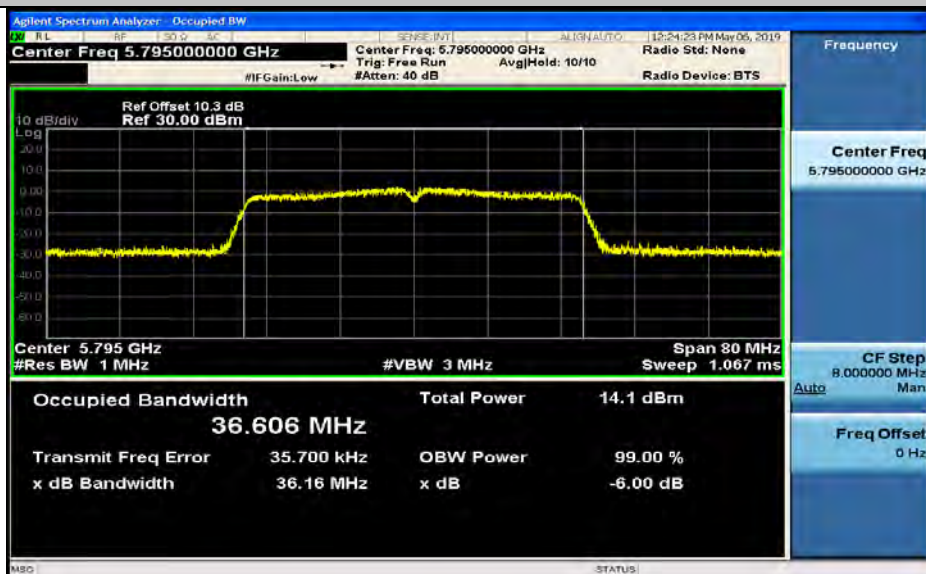
Occupied Bandwidth Measurement_11AC20_5825_Ant1



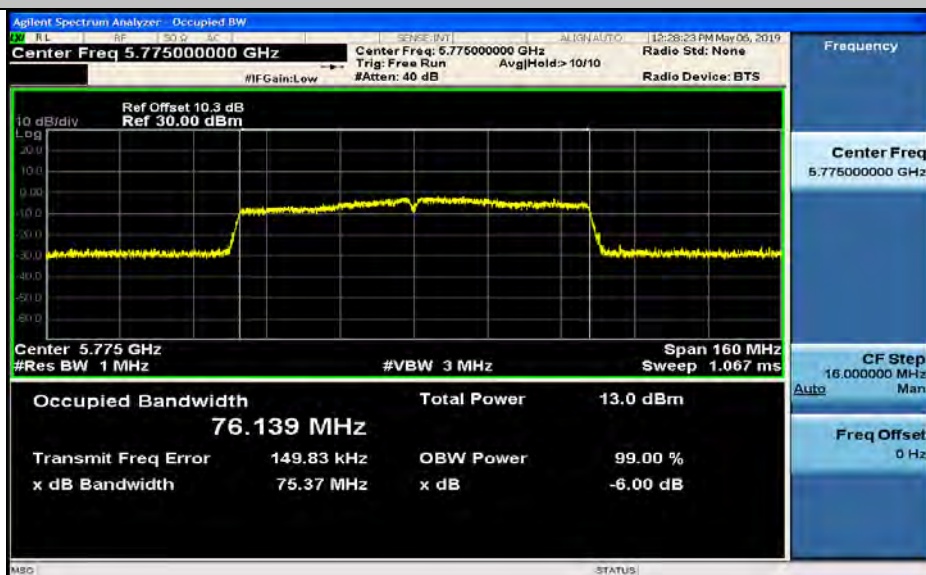
Occupied Bandwidth Measurement_11AC40_5755_Ant1



Occupied Bandwidth Measurement_11AC40_5795_Ant1



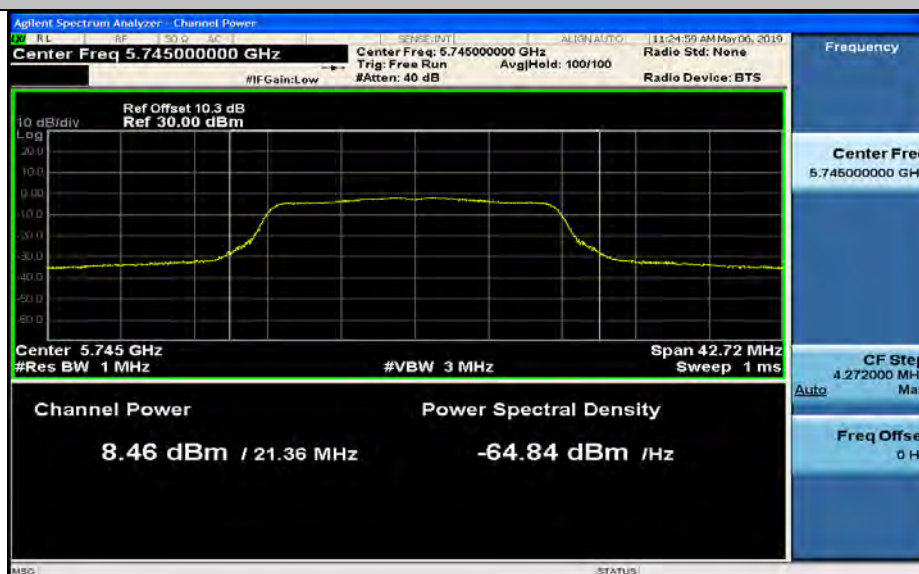
Occupied Bandwidth Measurement_11AC80_5775_Ant1



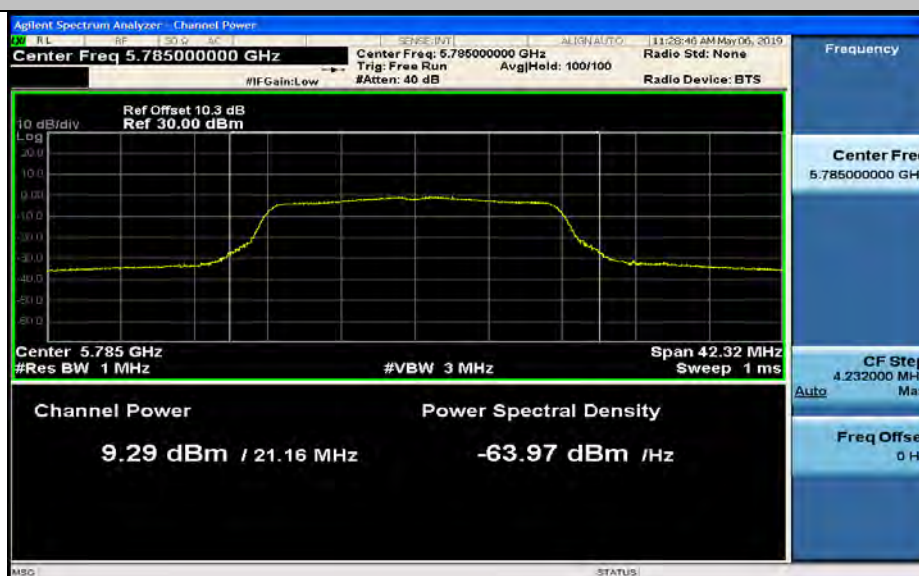
4.Maximum Conduct Output Power

Test Mode	Test Channel	Ant	Level [dBm]	10log(1/x) Factor [dB]	Power [dBm]	Limit [dBm]	Verdict
11A	5745	Ant1	8.46	0.08	8.54	30.00	PASS
11A	5785	Ant1	9.29	0.08	9.37	30.00	PASS
11A	5825	Ant1	8.95	0.08	9.03	30.00	PASS
11N20	5745	Ant1	7.03	0.08	7.11	30.00	PASS
11N20	5785	Ant1	7.82	0.08	7.9	30.00	PASS
11N20	5825	Ant1	7.63	0.08	7.71	30.00	PASS
11N40	5755	Ant1	6.12	0.18	6.3	30.00	PASS
11N40	5795	Ant1	7.15	0.16	7.31	30.00	PASS
11AC20	5745	Ant1	6.31	0.08	6.39	30.00	PASS
11AC20	5785	Ant1	7.01	0.09	7.1	30.00	PASS
11AC20	5825	Ant1	6.8	0.08	6.88	30.00	PASS
11AC40	5755	Ant1	6.23	0.18	6.41	30.00	PASS
11AC40	5795	Ant1	7.11	0.18	7.29	30.00	PASS
11AC80	5775	Ant1	5.95	0.32	6.27	30.00	PASS

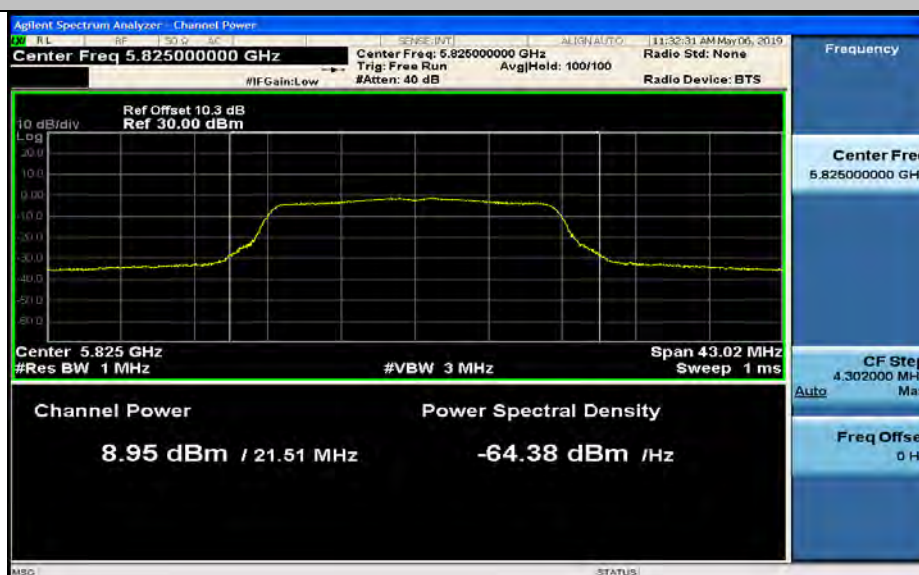
Maximum Conduct Output Power_11A_5745_Ant1



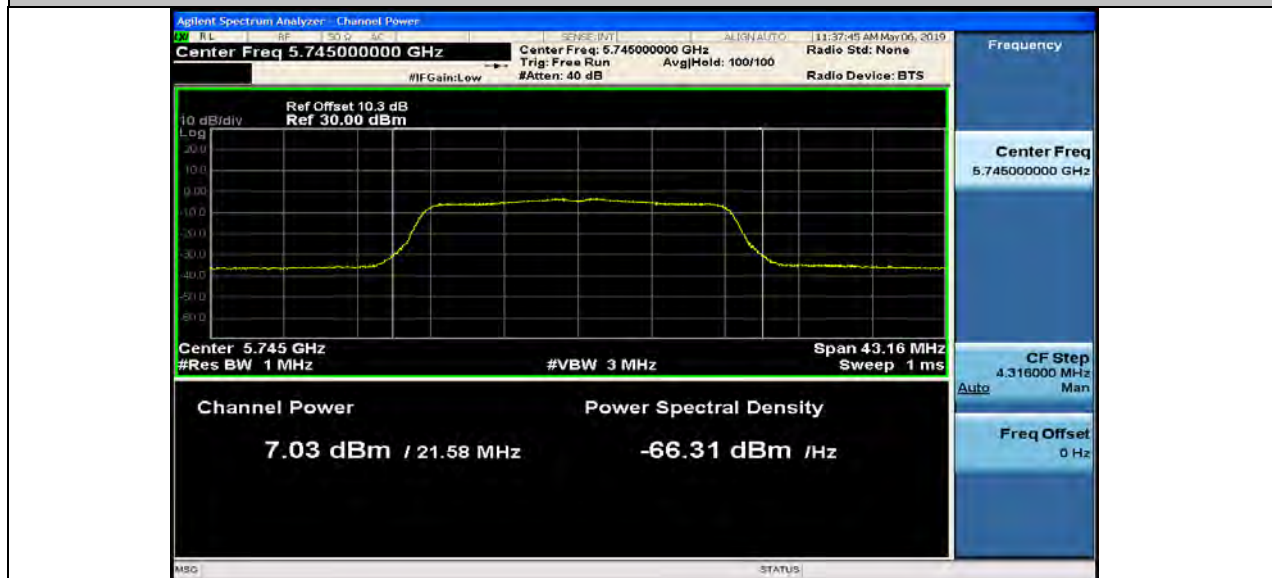
Maximum Conduct Output Power_11A_5785_Ant1



Maximum Conduct Output Power_11A_5825_Ant1



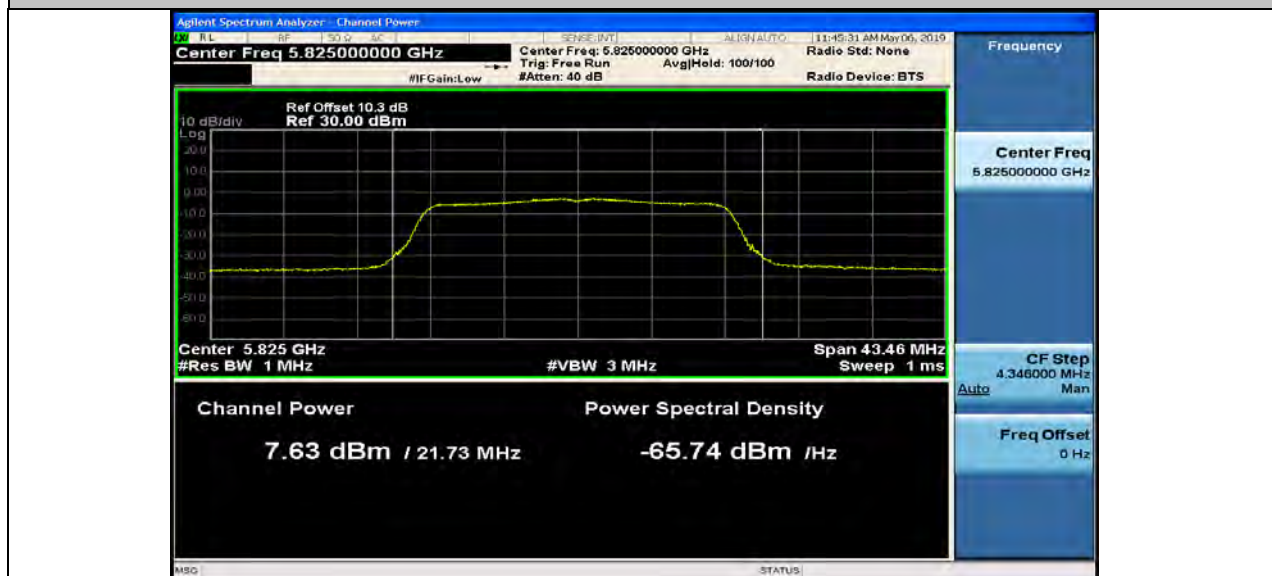
Maximum Conduct Output Power_11N20_5745_Ant1



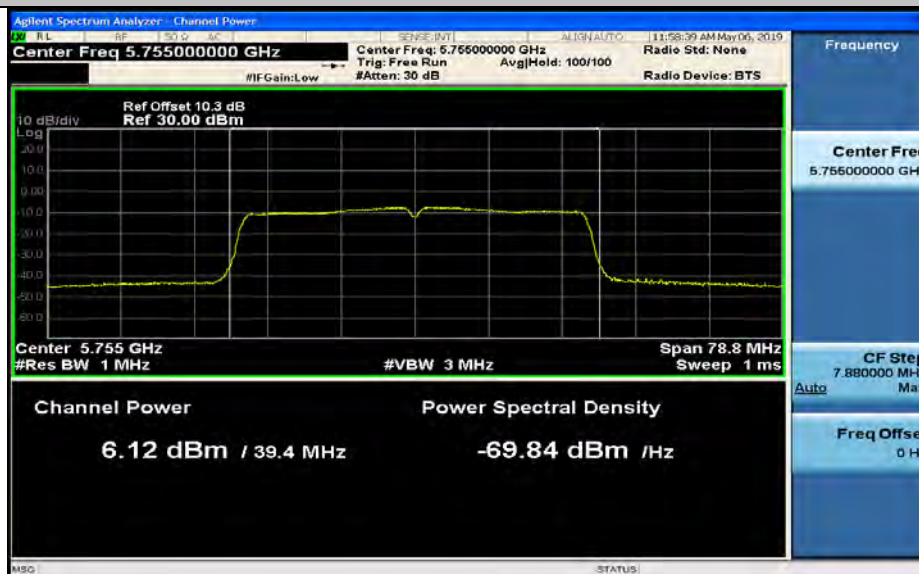
Maximum Conduct Output Power_11N20_5785_Ant1



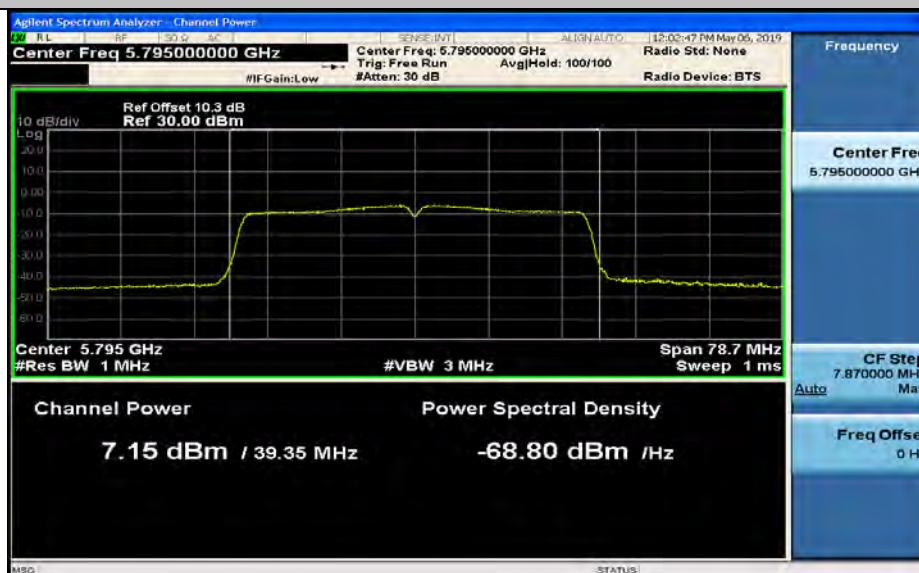
Maximum Conduct Output Power_11N20_5825_Ant1



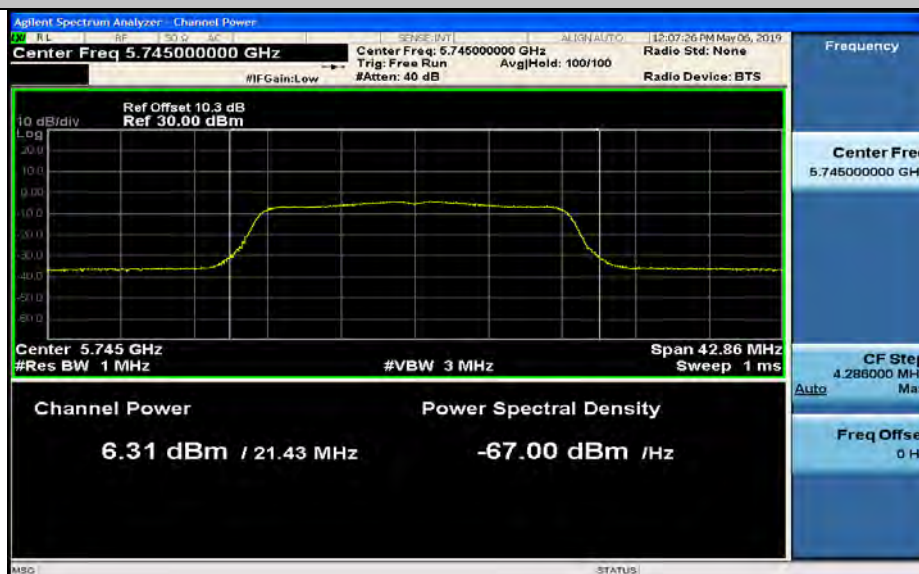
Maximum Conduct Output Power_11N40_5755_Ant1



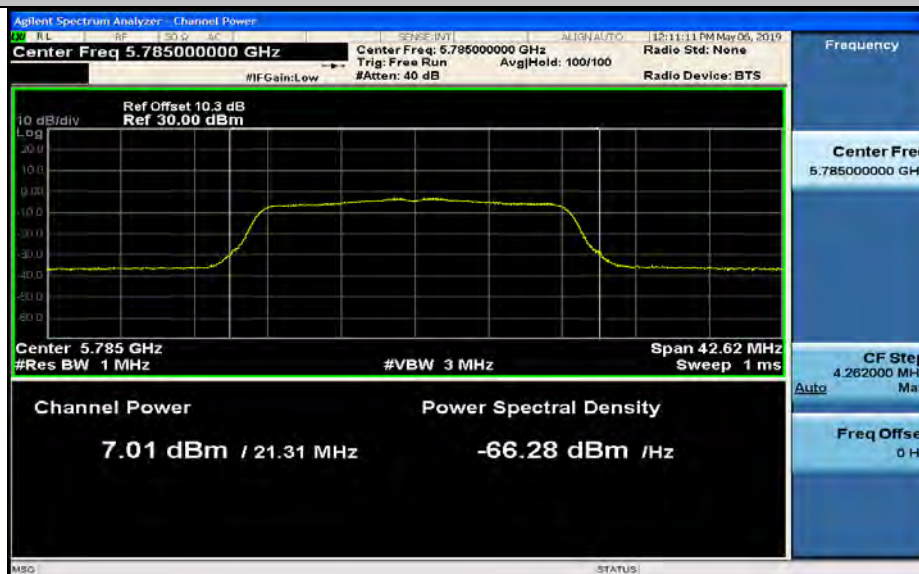
Maximum Conduct Output Power_11N40_5795_Ant1



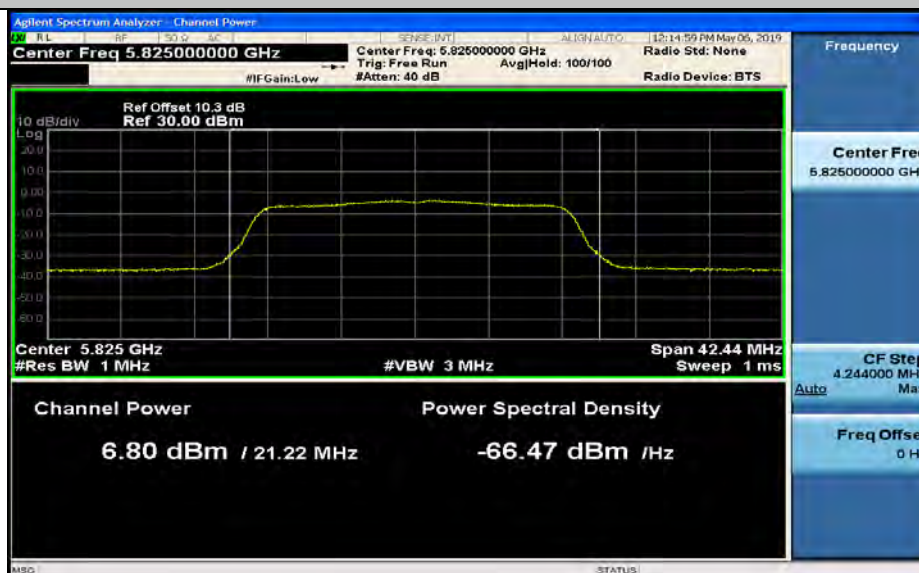
Maximum Conduct Output Power_11AC20_5745_Ant1



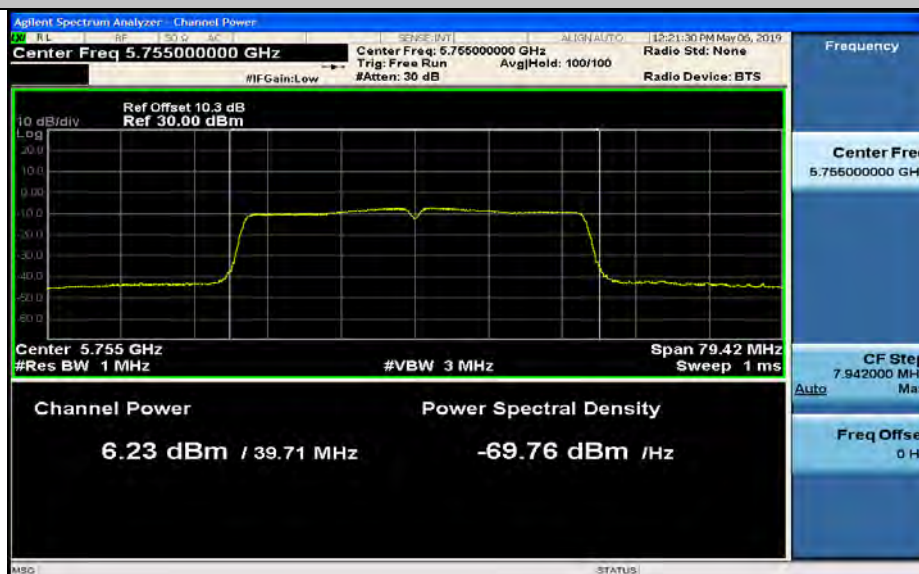
Maximum Conduct Output Power_11AC20_5785_Ant1



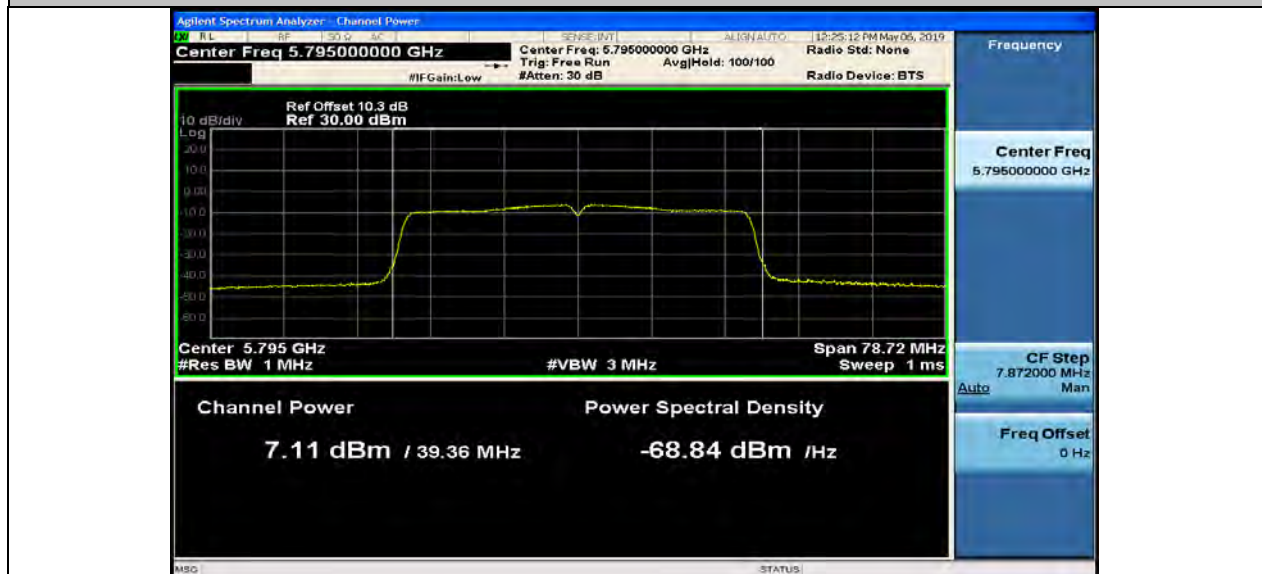
Maximum Conduct Output Power_11AC20_5825_Ant1



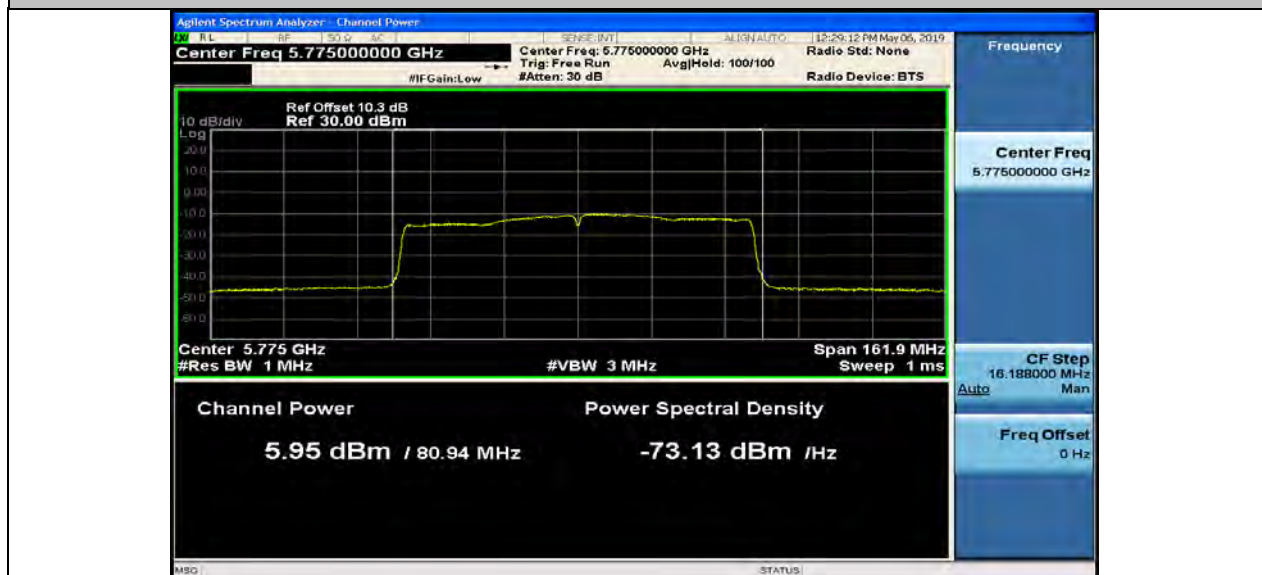
Maximum Conduct Output Power_11AC40_5755_Ant1



Maximum Conduct Output Power_11AC40_5795_Ant1



Maximum Conduct Output Power_11AC80_5775_Ant1



5.Maximum Power Spectral Density

Test Mode	Test Channel	Ant	Level [dBm/500kHz]	10log(1/x) Factor[dB]	10log(500kHz/RBW) Factor [dB]	PSD [dBm/500kHz]	Limit [dBm/500kHz]	Verdict
11A	5745	Ant1	-6.5	0.08	2.22	-4.2	30.00	PASS
11A	5785	Ant1	-5.83	0.08	2.22	-3.53	30.00	PASS
11A	5825	Ant1	-6.15	0.08	2.22	-3.85	30.00	PASS
11N20	5745	Ant1	-8.23	0.08	2.22	-5.93	30.00	PASS
11N20	5785	Ant1	-7.2	0.08	2.22	-4.9	30.00	PASS
11N20	5825	Ant1	-7.51	0.08	2.22	-5.21	30.00	PASS
11N40	5755	Ant1	-12.45	0.18	2.22	-10.05	30.00	PASS
11N40	5795	Ant1	-11.41	0.16	2.22	-9.03	30.00	PASS
11AC20	5745	Ant1	-8.94	0.08	2.22	-6.64	30.00	PASS
11AC20	5785	Ant1	-8.2	0.09	2.22	-5.89	30.00	PASS
11AC20	5825	Ant1	-8.48	0.08	2.22	-6.18	30.00	PASS
11AC40	5755	Ant1	-12.38	0.18	2.22	-9.98	30.00	PASS
11AC40	5795	Ant1	-11.18	0.18	2.22	-8.78	30.00	PASS
11AC80	5775	Ant1	-15.54	0.32	2.22	-13	30.00	PASS

Maximum Power Spectral Density_TNVN_11A_5745_Ant1



Maximum Power Spectral Density_TNVN_11A_5785_Ant1



Maximum Power Spectral Density_TNVN_11A_5825_Ant1



Maximum Power Spectral Density_TNVN_11N20_5745_Ant1



Maximum Power Spectral Density_TNVN_11N20_5785_Ant1



Maximum Power Spectral Density_TNVN_11N20_5825_Ant1



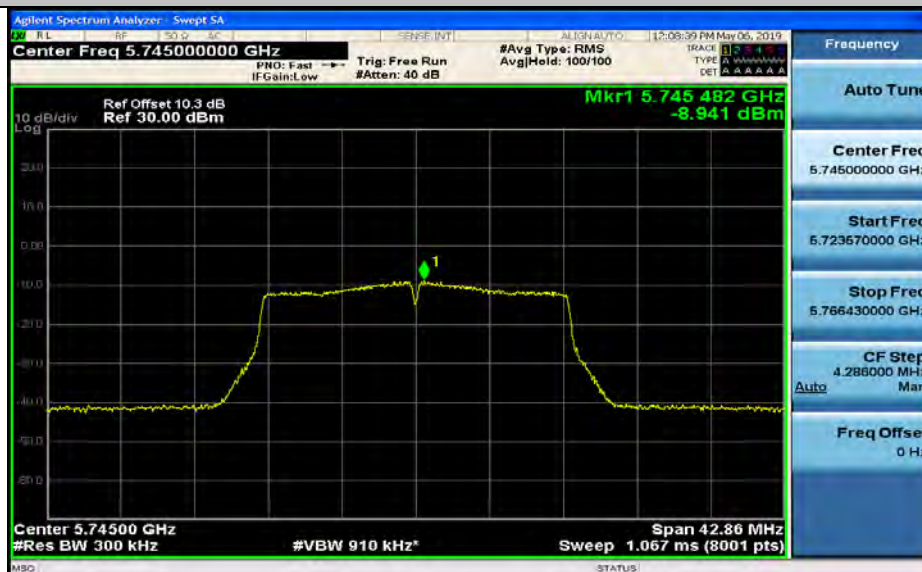
Maximum Power Spectral Density_TNVN_11N40_5755_Ant1



Maximum Power Spectral Density_TNVN_11N40_5795_Ant1



Maximum Power Spectral Density_TNVN_11AC20_5745_Ant1



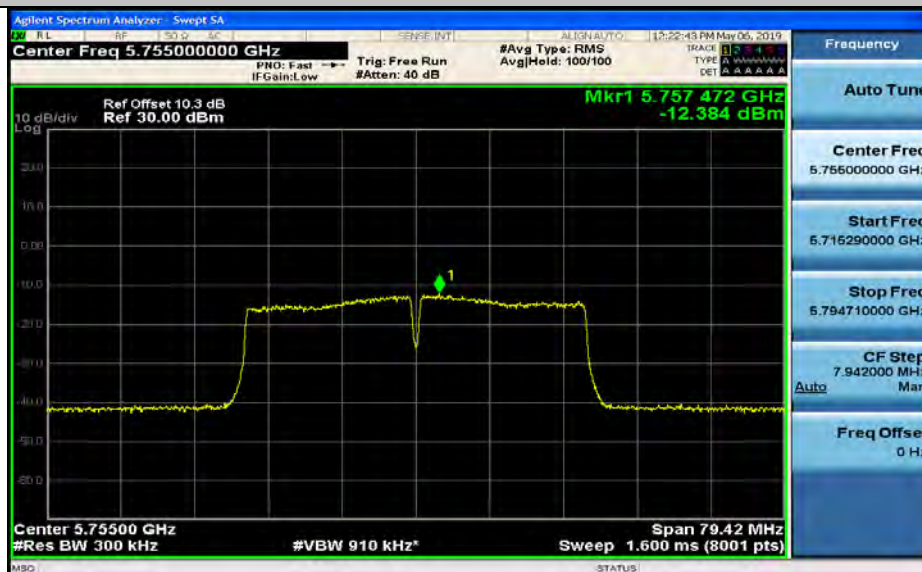
Maximum Power Spectral Density_TNVN_11AC20_5785_Ant1



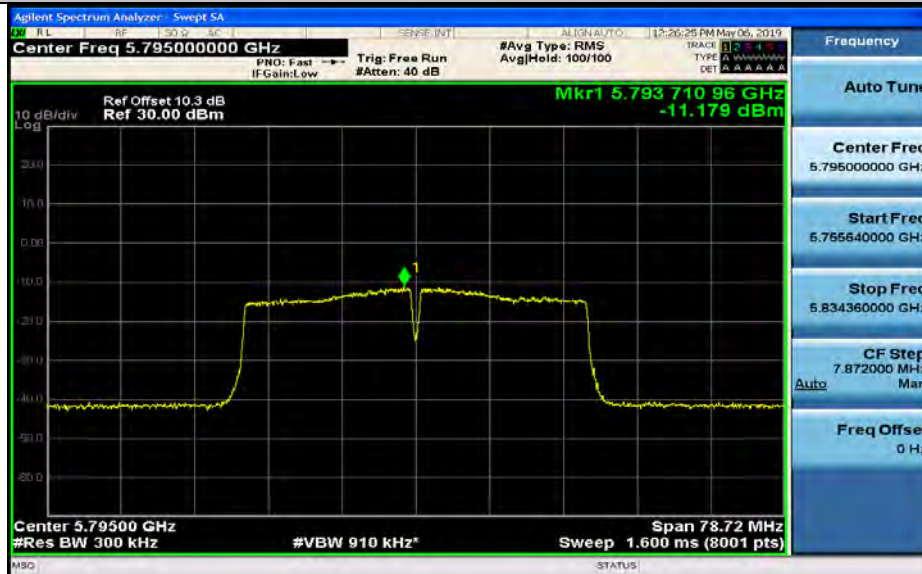
Maximum Power Spectral Density_TNVN_11AC20_5825_Ant1



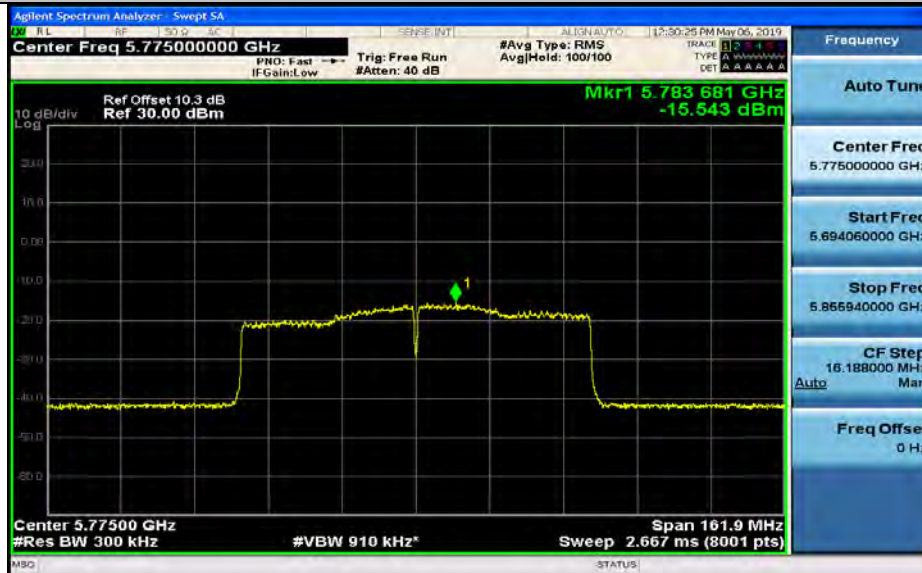
Maximum Power Spectral Density_TNVN_11AC40_5755_Ant1



Maximum Power Spectral Density_TNVN_11AC40_5795_Ant1



Maximum Power Spectral Density_TNVN_11AC80_5775_Ant1



6.Frequency Stability

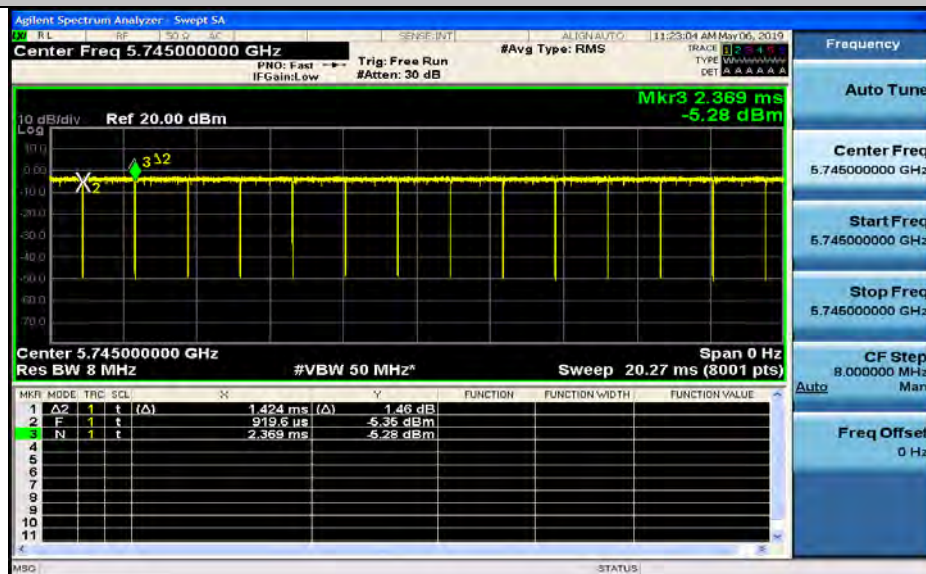
Band	Test Conditions		Operation Frequency (MHz)	Test Frequency (MHz)	Freq. Dev. (MHz)	Limit (GHz)	Result
	Volt (V AC)	Temp (°C)		ANT1	ANT1		
Band U-NII 3	Normal(120)	Extreme(-20)	5745	5745.0468	0.0468	5.725-5.85	Pass
		Extreme(-10)		5745.0372	0.0372		Pass
		Extreme(0)		5745.0262	0.0262		Pass
		Extreme(+10)		5745.0158	0.0158		Pass
		Extreme(+20)		5745.0295	0.0295		Pass
		Extreme(+30)		5745.0414	0.0414		Pass
		Extreme(+40)		5745.0326	0.0326		Pass
		Extreme(+55)		5745.0285	0.0285		Pass
	Extreme(108)	Norma(+20)		5745.0387	0.0387		Pass
	Extreme(132)			5745.0446	0.0446		Pass
	Normal(120)	Extreme(-20)	5825	5825.0424	0.0424		Pass
		Extreme(-10)		5825.0436	0.0436		Pass
		Extreme(0)		5825.0275	0.0275		Pass
		Extreme(+10)		5825.0225	0.0225		Pass
		Extreme(+20)		5825.0187	0.0187		Pass
		Extreme(+30)		5825.0326	0.0326		Pass
		Extreme(+40)		5825.0178	0.0178		Pass
		Extreme(+55)		5825.0248	0.0248		Pass
	Extreme(108)	Norma(20)		5825.0412	0.0412		Pass
	Extreme(132)			5825.0147	0.0147		Pass

Remark: Based on the results of the frequency stability test shown above the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency deviation noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested

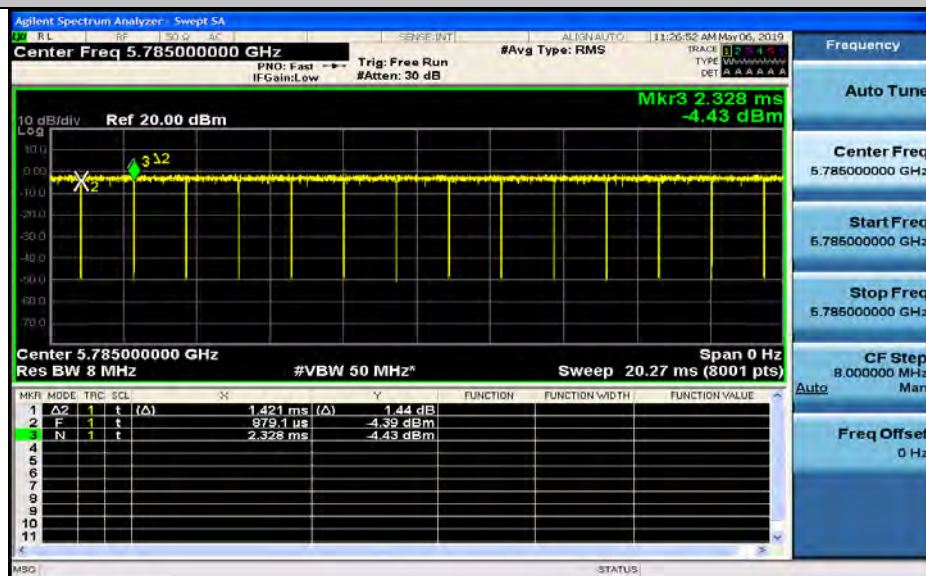
7.Duty Cycle

Test Mode	Test Channel	Ant	Duty Cycle[%]	10log(1/x) Factor[dB]
11A	5745	Ant1	98.25	0.08
11A	5785	Ant1	98.08	0.08
11A	5825	Ant1	98.25	0.08
11N20	5745	Ant1	98.13	0.08
11N20	5785	Ant1	98.13	0.08
11N20	5825	Ant1	98.13	0.08
11N40	5755	Ant1	95.94	0.18
11N40	5795	Ant1	96.30	0.16
11AC20	5745	Ant1	98.14	0.08
11AC20	5785	Ant1	97.96	0.09
11AC20	5825	Ant1	98.14	0.08
11AC40	5755	Ant1	95.97	0.18
11AC40	5795	Ant1	95.96	0.18
11AC80	5775	Ant1	92.81	0.32

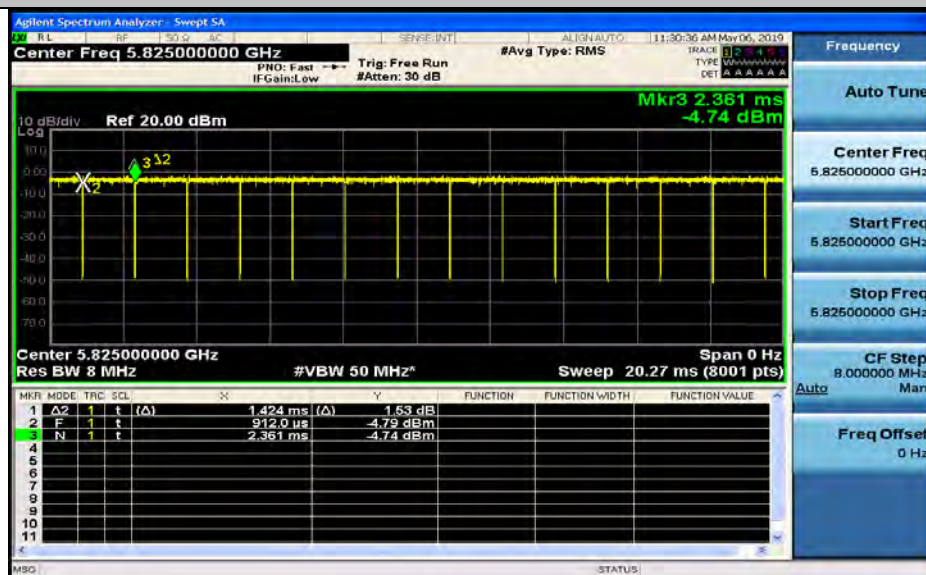
Duty Cycle_11A_5745_Ant1



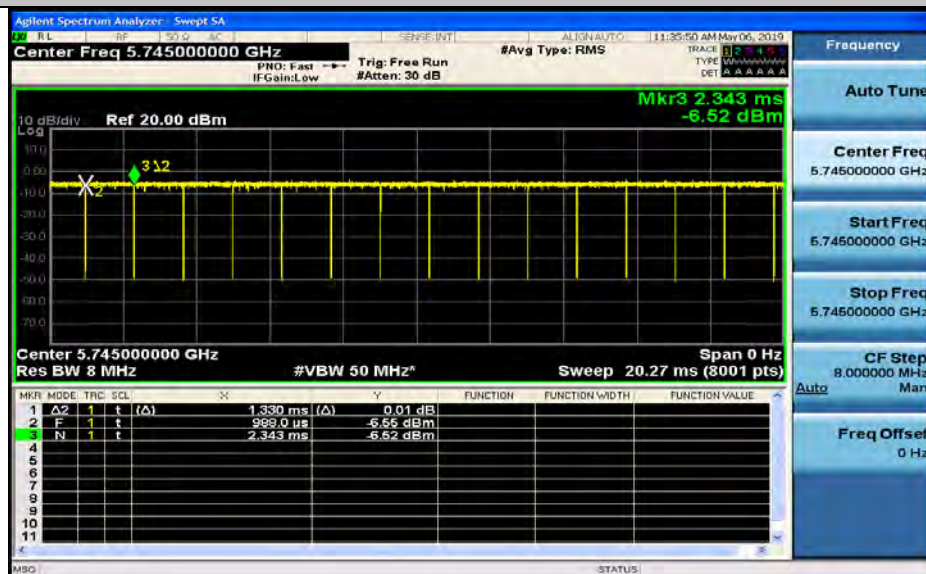
Duty Cycle_11A_5785_Ant1



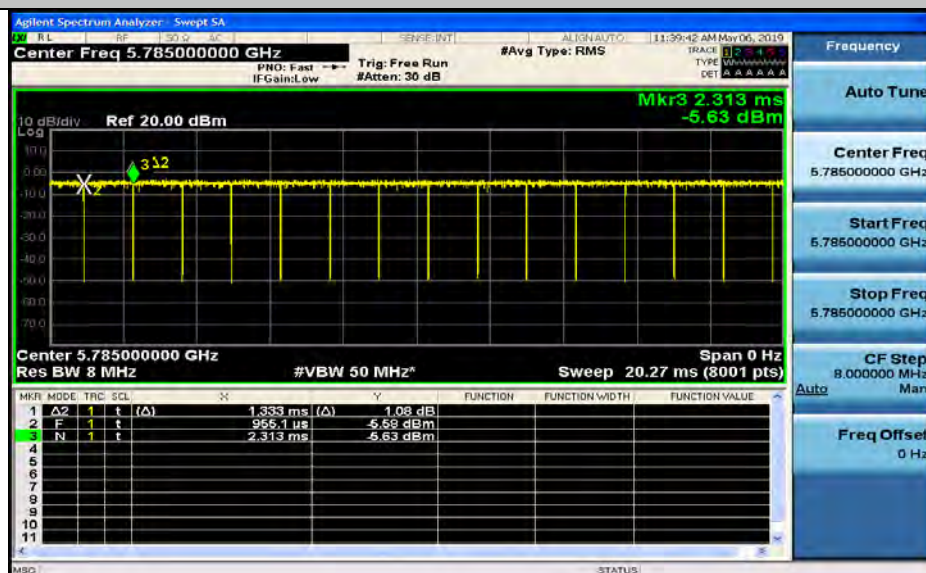
Duty Cycle_11A_5825_Ant1



Duty Cycle_11N20_5745_Ant1



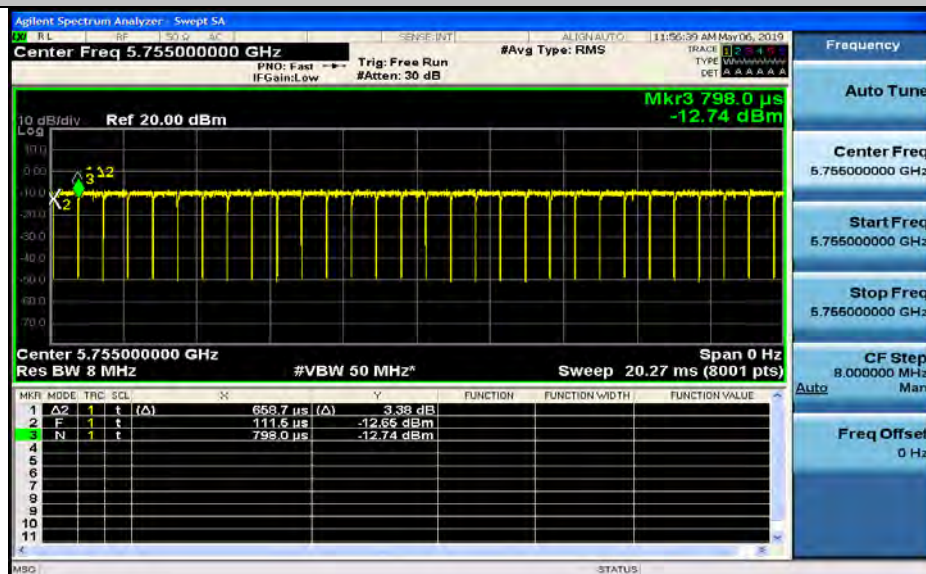
Duty Cycle_11N20_5785_Ant1



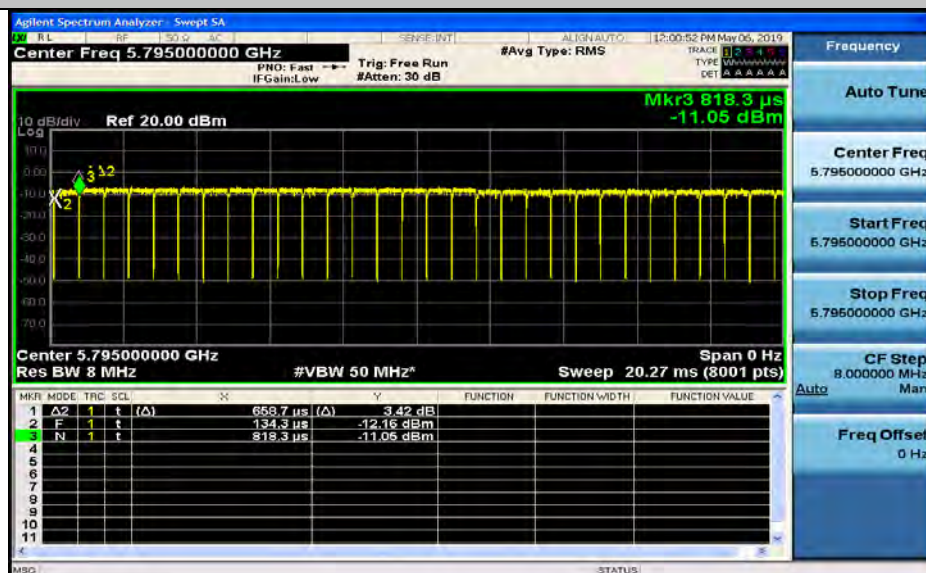
Duty Cycle_11N20_5825_Ant1



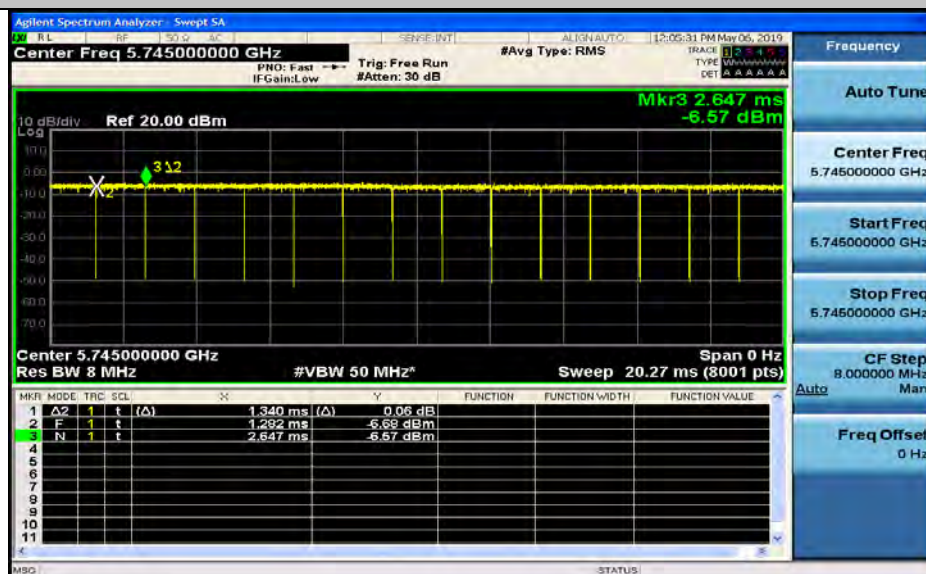
Duty Cycle_11N40_5755_Ant1



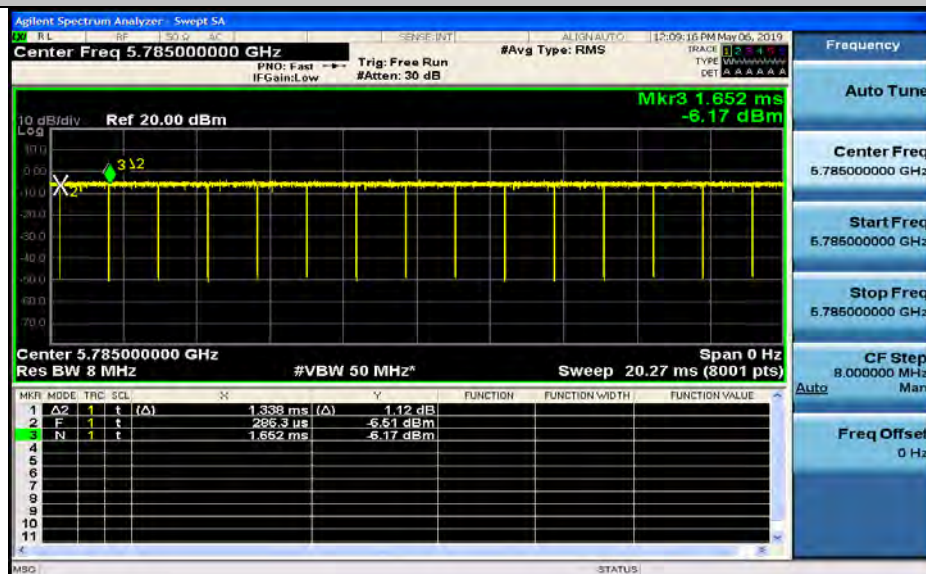
Duty Cycle_11N40_5795_Ant1



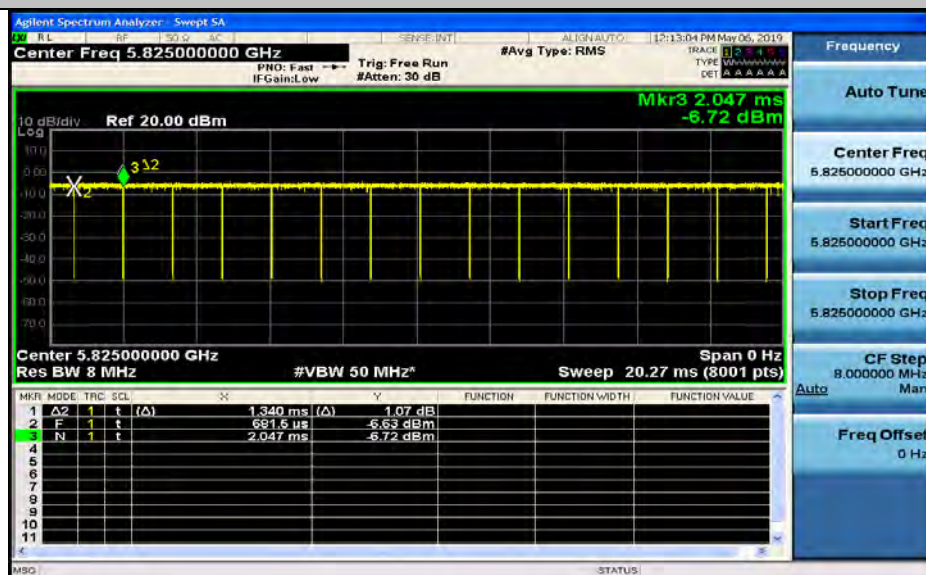
Duty Cycle_11AC20_5745_Ant1



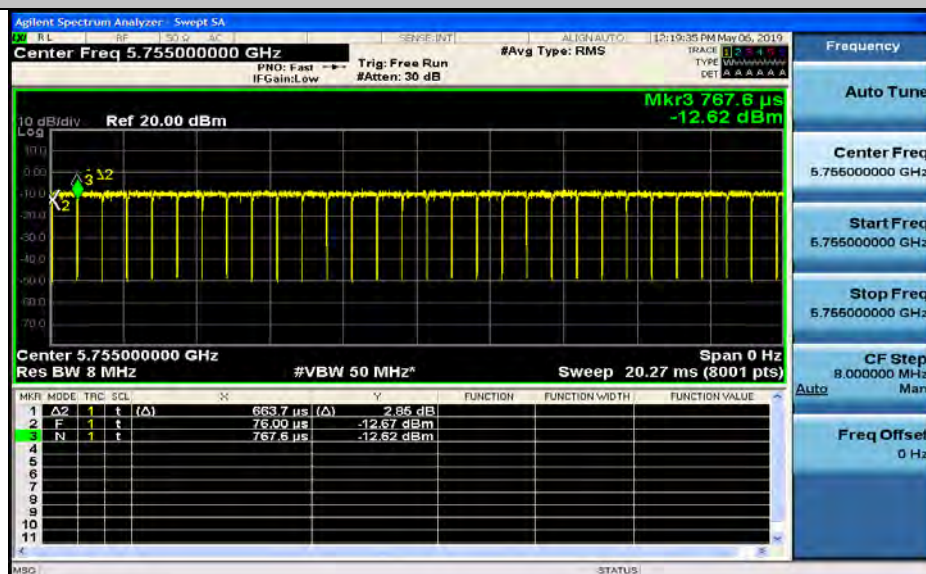
Duty Cycle_11AC20_5785_Ant1



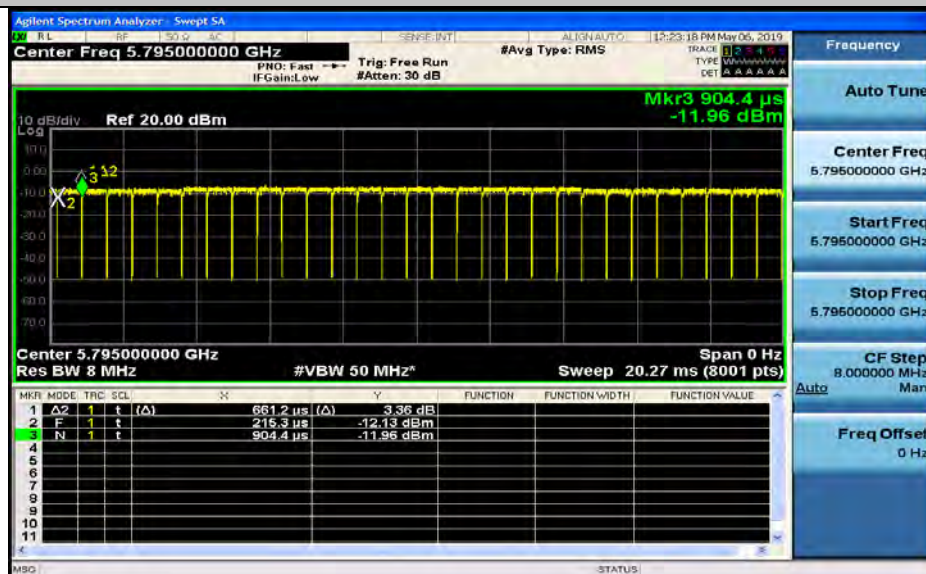
Duty Cycle_11AC20_5825_Ant1



Duty Cycle_11AC40_5755_Ant1



Duty Cycle_11AC40_5795_Ant1



Duty Cycle_11AC80_5775_Ant1

