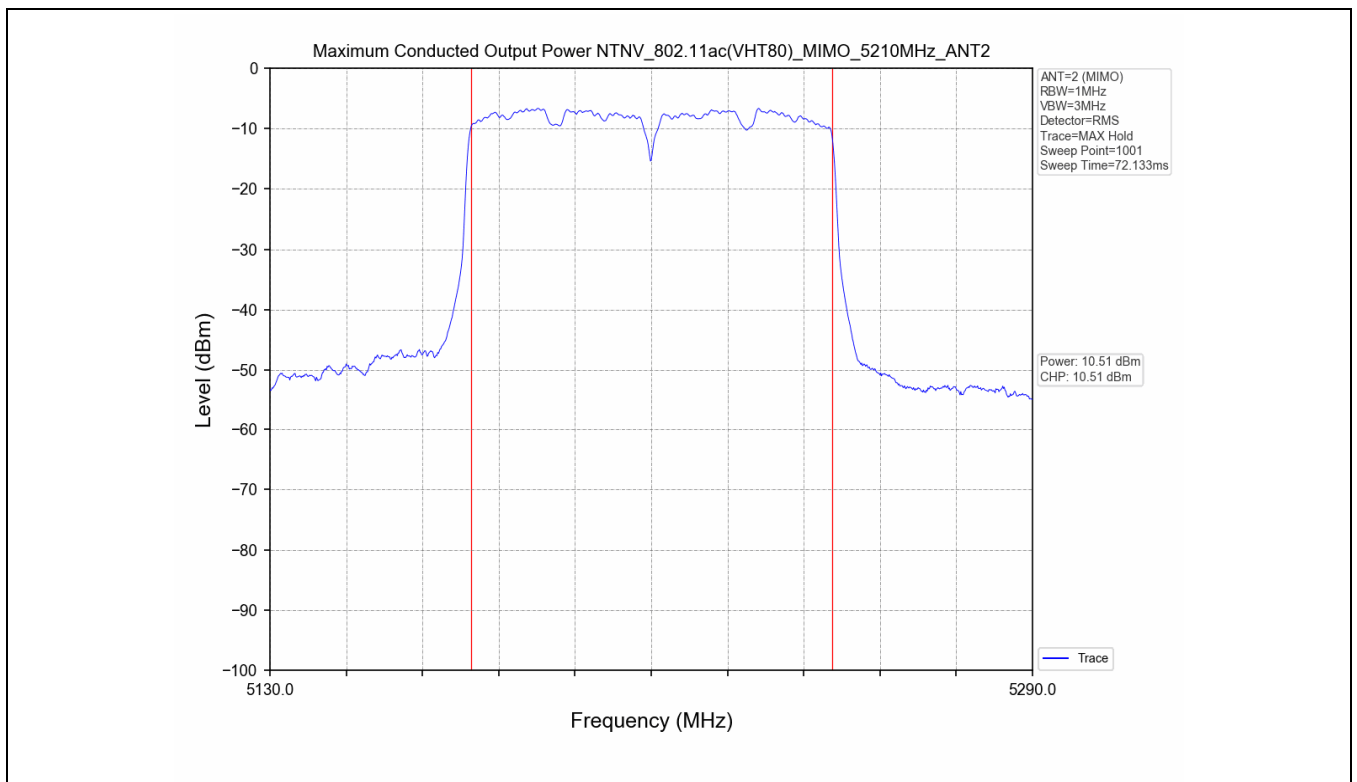
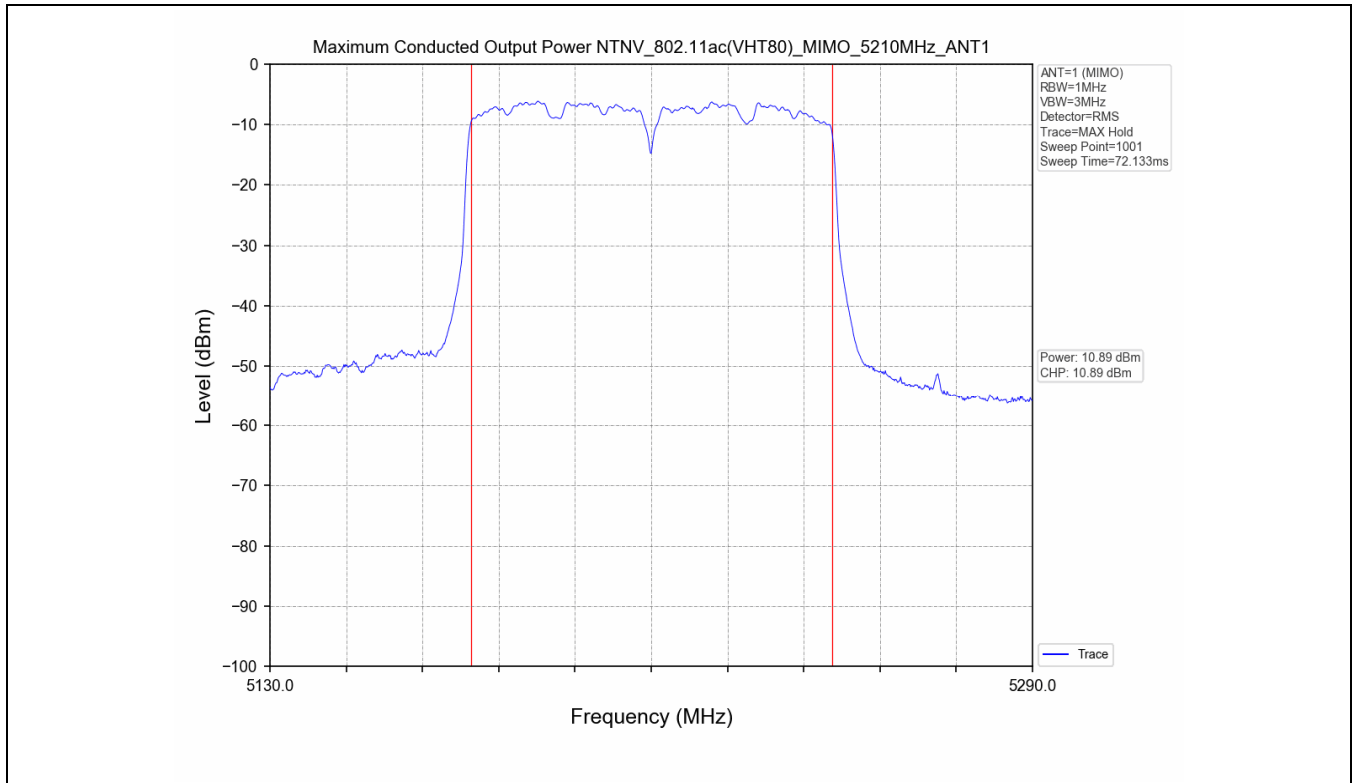
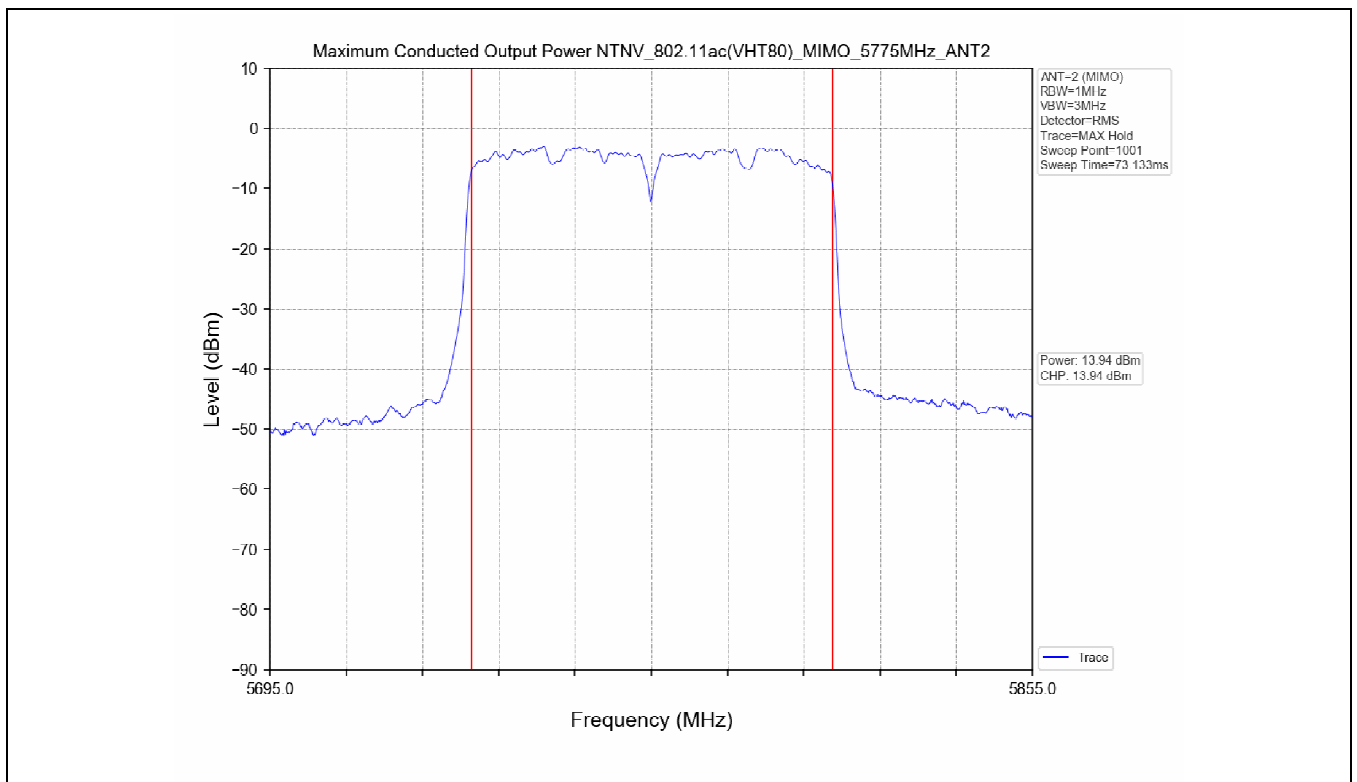
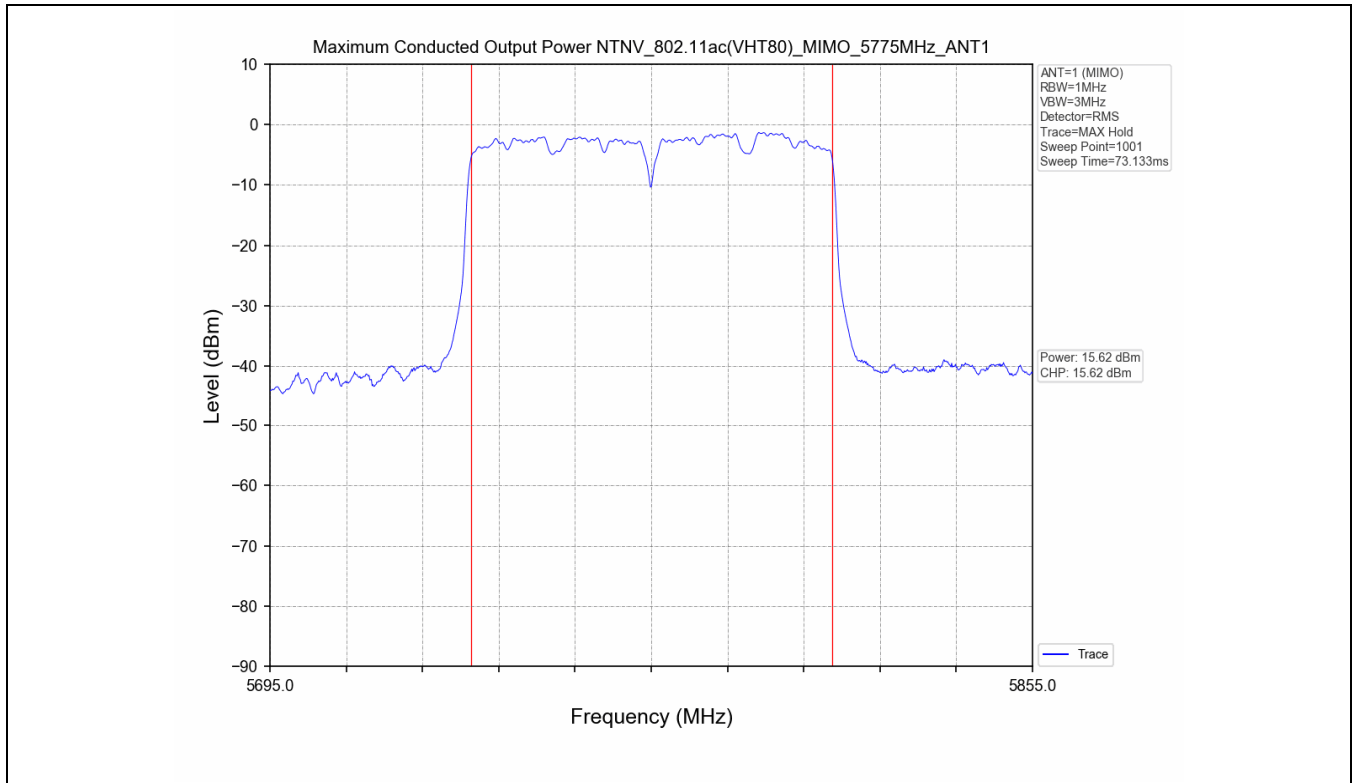






4. Maximum Power Spectral Density (PSD)

4.1 Test Result

Test Mode	Frequency (MHz)	Tx Type	Maximum Power Spectral Density (dBm/MHz)			Limits (dBm/MHz)	Verdict
			Ant 1	Ant 2	Total		
802.11a	5180	SISO	5.55	5.42	/	≤11	PASS
	5200	SISO	5.06	4.98	/	≤11	PASS
	5240	SISO	4.49	4.56	/	≤11	PASS
802.11n(HT20)	5180	MIMO	2.51	2.41	5.43	≤8.89	PASS
	5200	MIMO	-2.49	-1.89	0.79	≤8.89	PASS
	5240	MIMO	3.54	3.30	6.33	≤8.89	PASS
802.11n(HT40)	5190	MIMO	-3.68	-2.96	-0.30	≤8.89	PASS
	5230	MIMO	0.95	0.83	3.84	≤8.89	PASS
802.11ac(VHT20)	5180	MIMO	2.87	2.55	5.58	≤8.89	PASS
	5200	MIMO	1.99	2.21	5.10	≤8.89	PASS
	5240	MIMO	1.68	1.52	4.57	≤8.89	PASS
802.11ac(VHT40)	5190	MIMO	-5.25	-4.60	-1.93	≤8.89	PASS
	5230	MIMO	-0.36	-0.45	2.59	≤8.89	PASS
802.11ac(VHT80)	5210	MIMO	-6.14	-6.62	-3.37	≤8.89	PASS

Test Mode	Frequency (MHz)	Tx Type	Maximum Power Spectral Density (dBm/500kHz)			Limits (dBm/500kHz)	Verdict
			Ant 1	Ant 2	Total		
802.11a	5745	SISO	3.73	3.19	/	≤30	PASS
	5785	SISO	5.16	4.64	/	≤30	PASS
	5825	SISO	4.80	5.12	/	≤30	PASS
802.11n(HT20)	5745	MIMO	3.55	2.90	6.24	≤27.89	PASS
	5785	MIMO	4.95	4.25	7.62	≤27.89	PASS
	5825	MIMO	4.66	4.98	7.83	≤27.89	PASS
802.11n(HT40)	5755	MIMO	1.58	0.06	3.90	≤27.89	PASS
	5795	MIMO	2.81	1.81	5.30	≤27.89	PASS
802.11ac(VHT20)	5745	MIMO	2.05	1.56	4.81	≤27.89	PASS
	5785	MIMO	3.02	2.61	5.72	≤27.89	PASS
	5825	MIMO	2.99	3.11	6.04	≤27.89	PASS
802.11ac(VHT40)	5755	MIMO	0.00	-1.12	2.46	≤27.89	PASS
	5795	MIMO	1.29	0.18	3.78	≤27.89	PASS
802.11ac(VHT80)	5775	MIMO	-2.95	-4.34	-0.84	≤27.89	PASS

Remark: Directional gain = $G_{ANT} + 10 \cdot \log(N_{ANT}/N_{SS}) = 5.1 + 10 \cdot \log(2/1) = 8.11 \text{ dBi}$.

So, the limit of UNII Band I is 8.89dBm/500kHz for MIMO mode; the limit of UNII Band III is 27.89dBm/500kHz for MIMO mode.



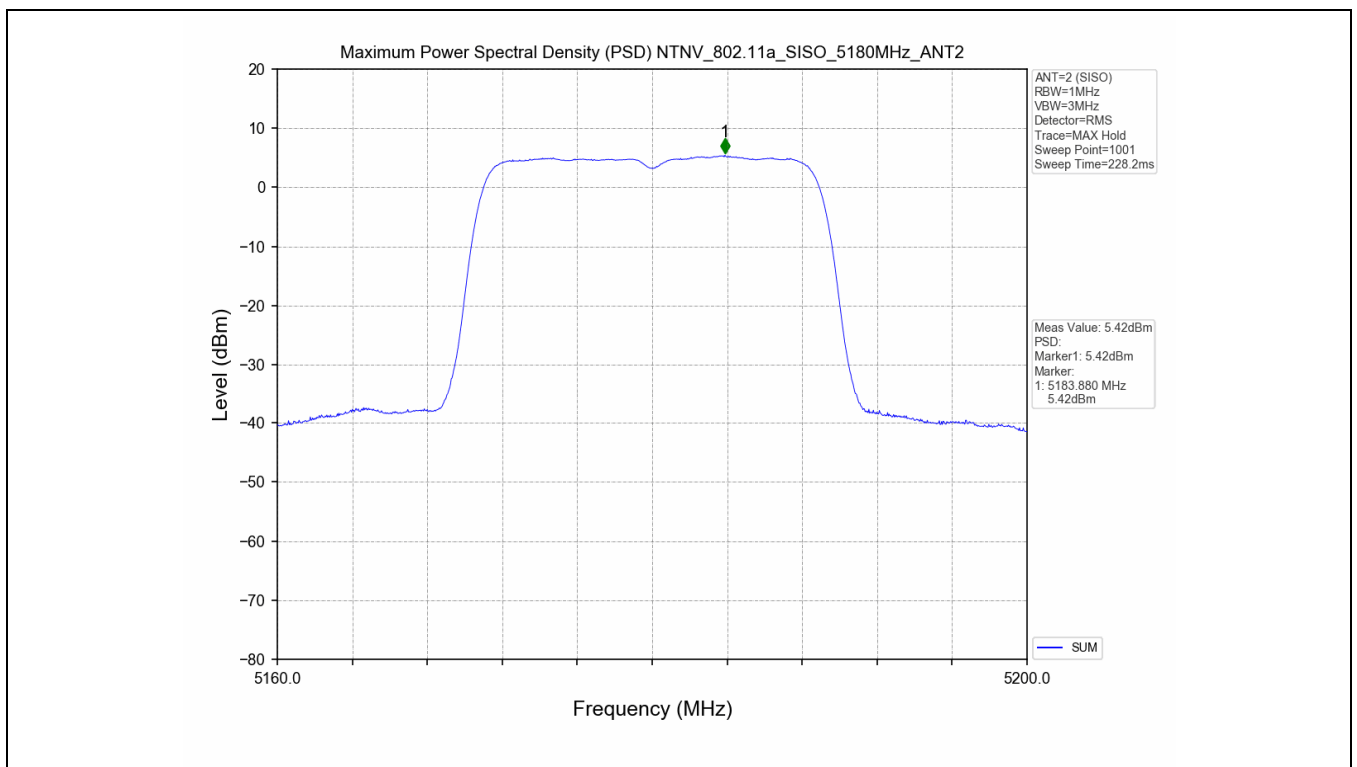
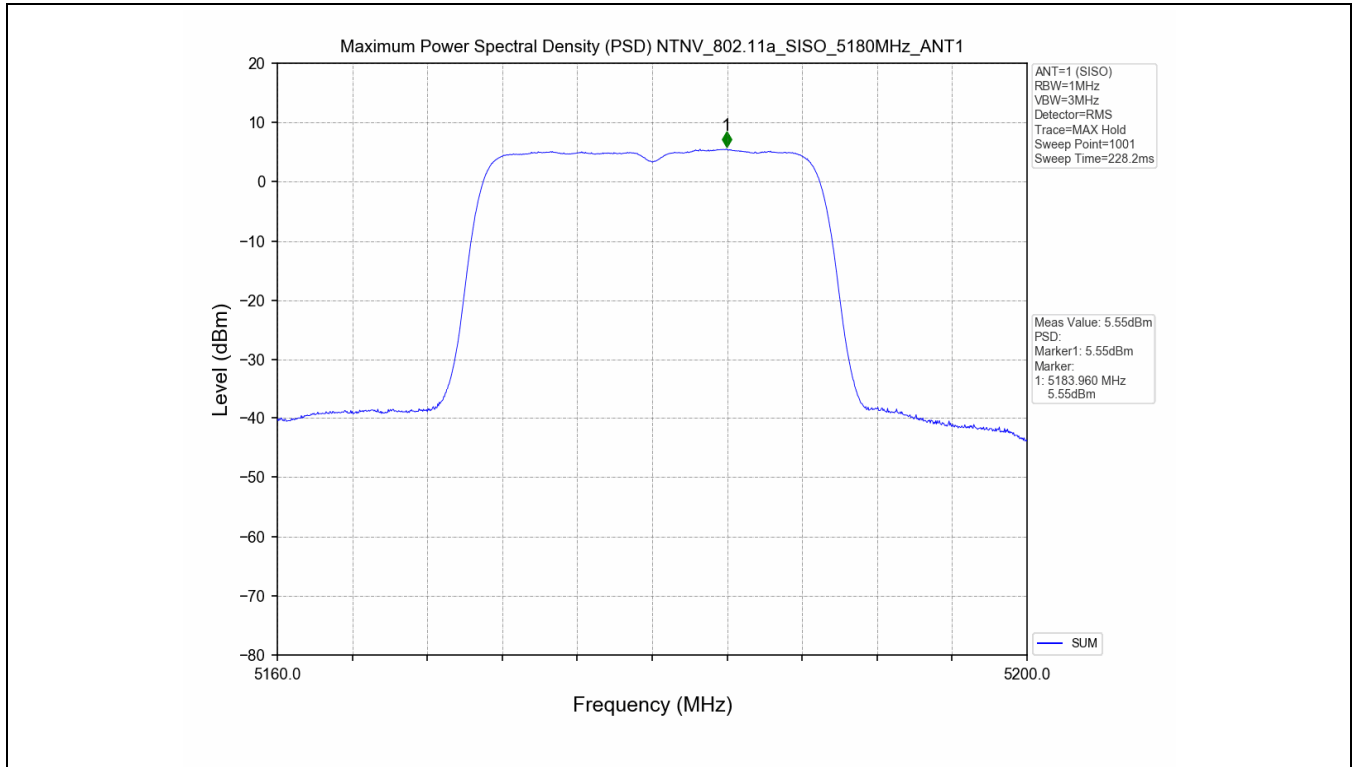
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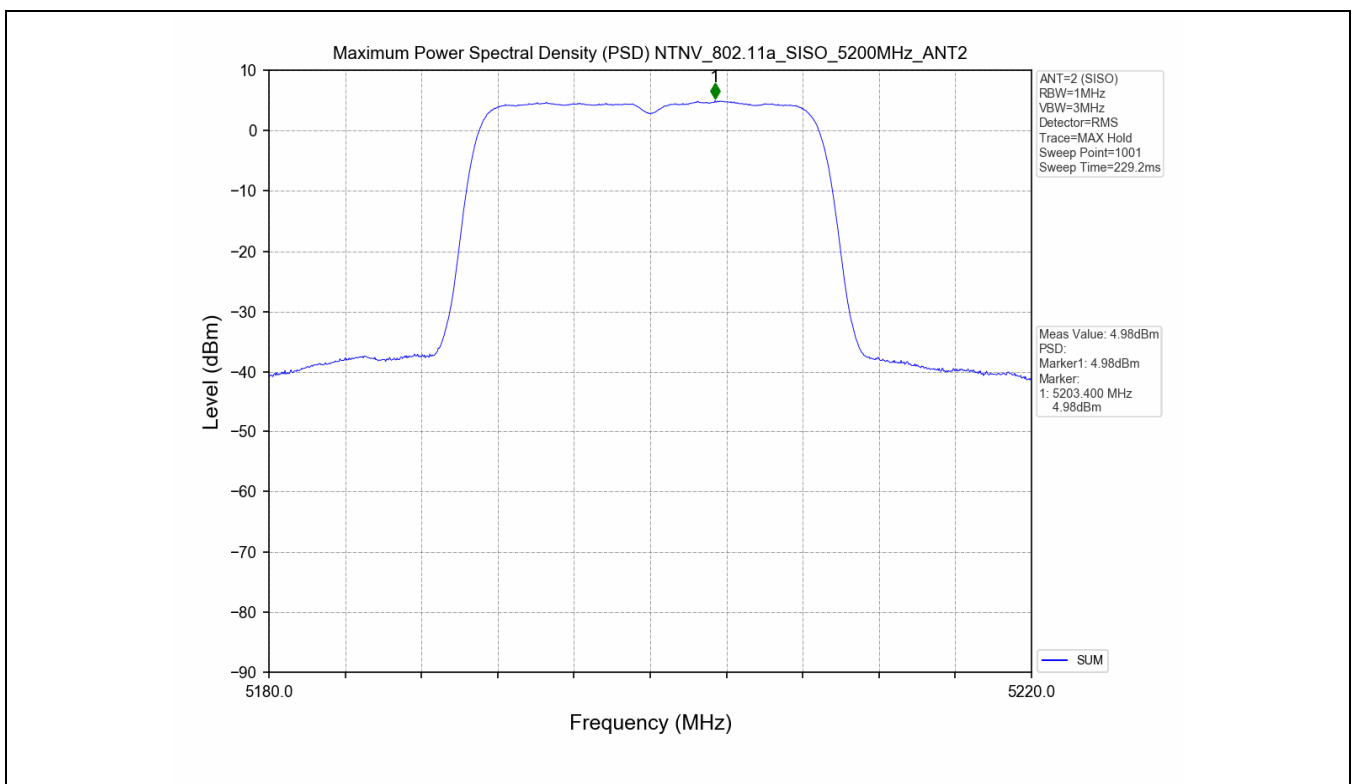
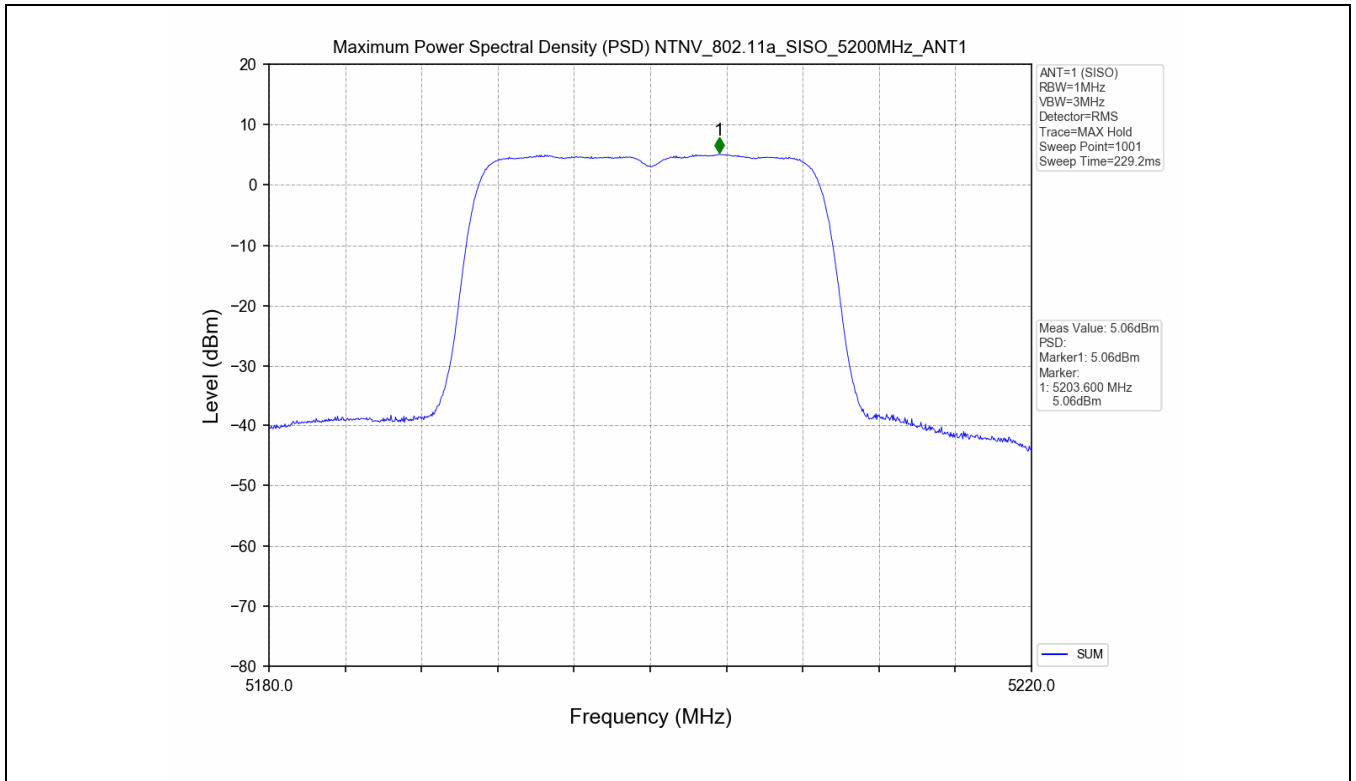
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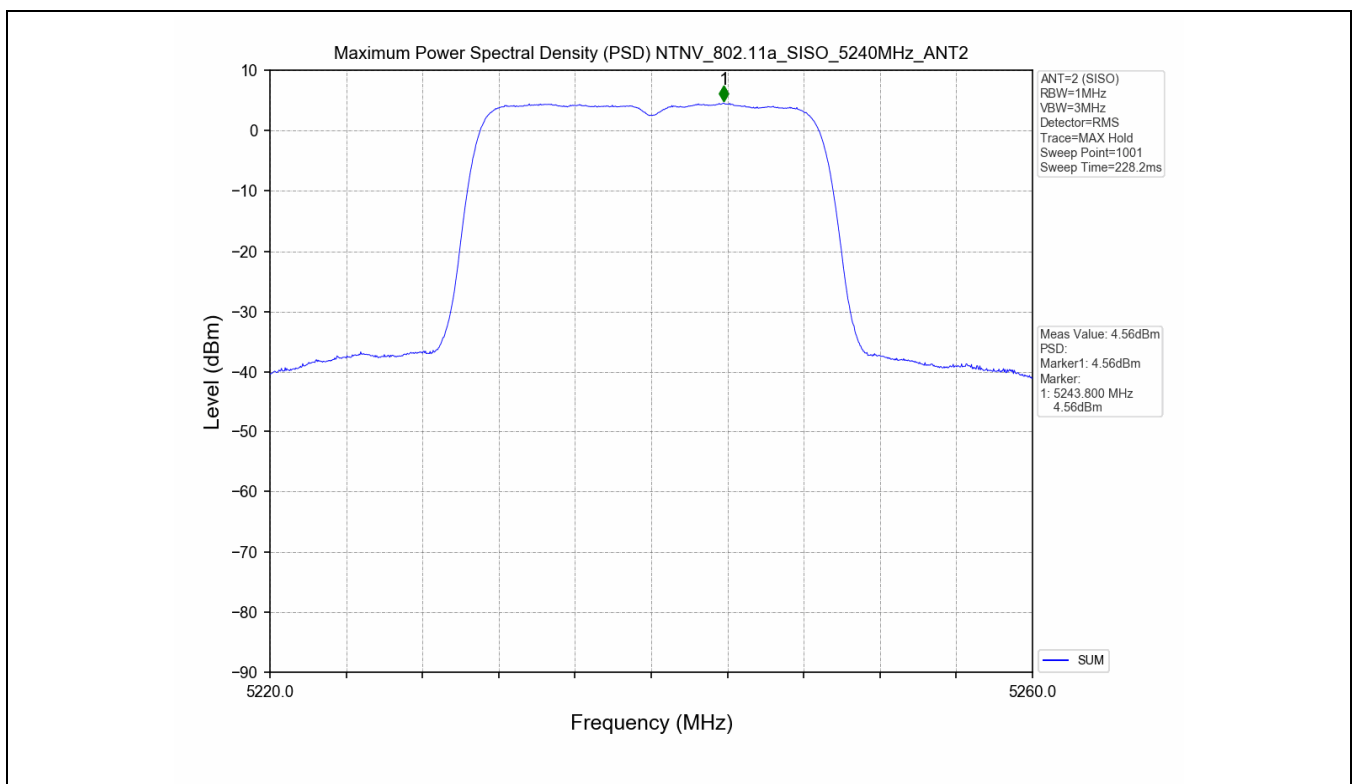
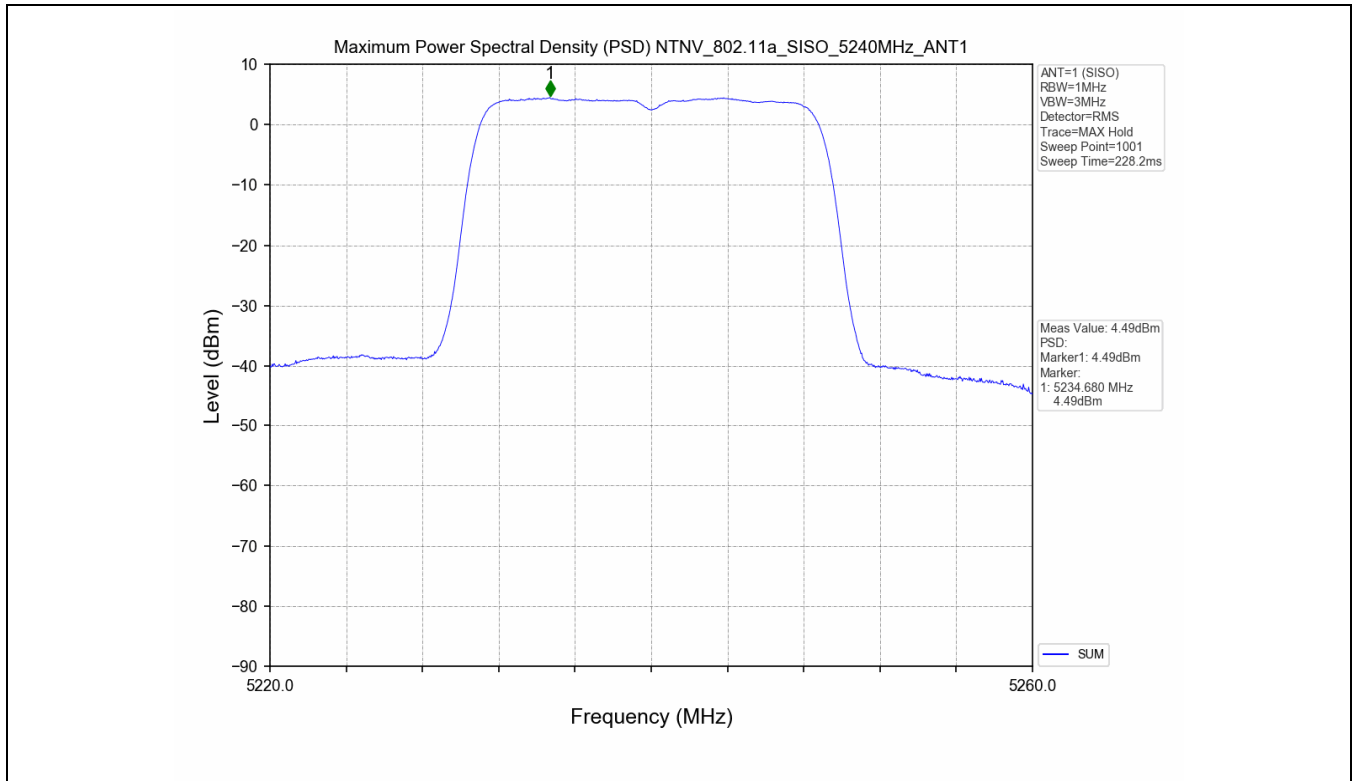
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Shenzhen Branch Laboratory

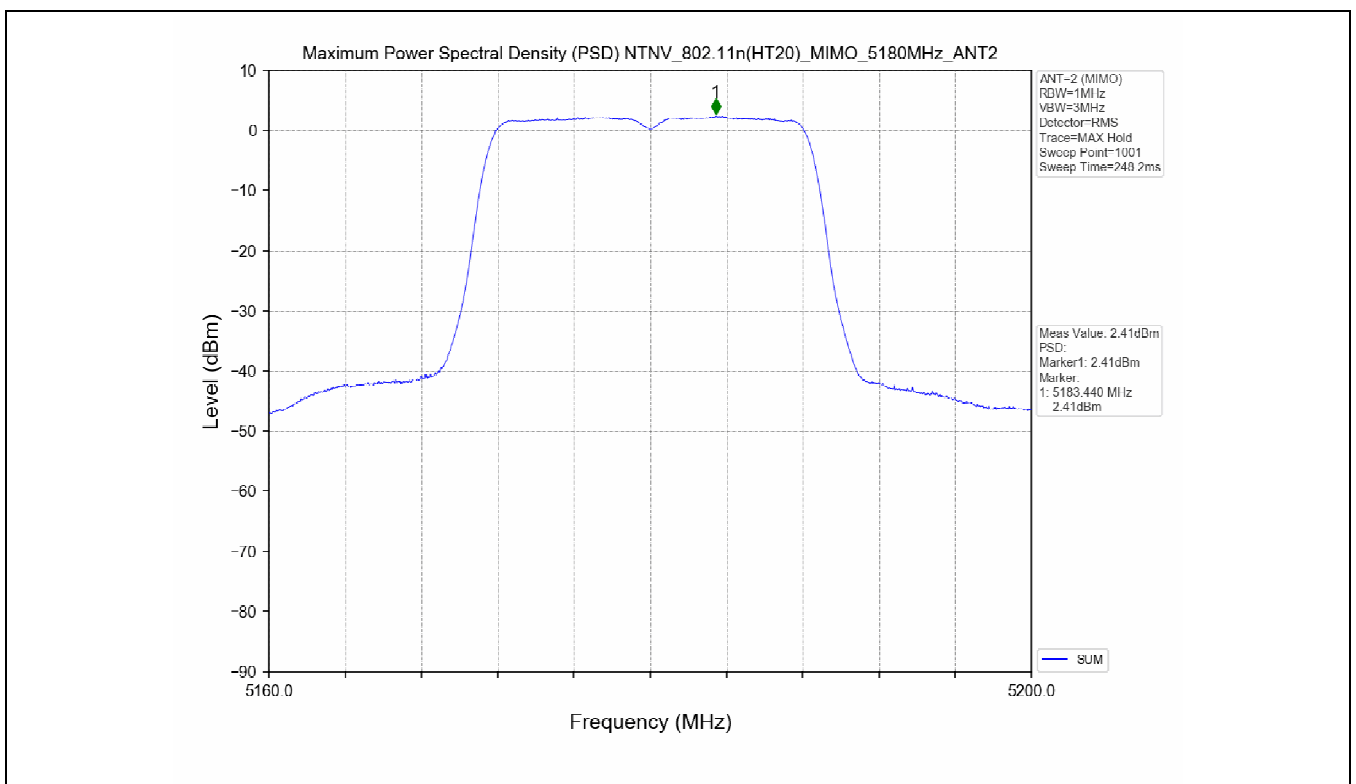
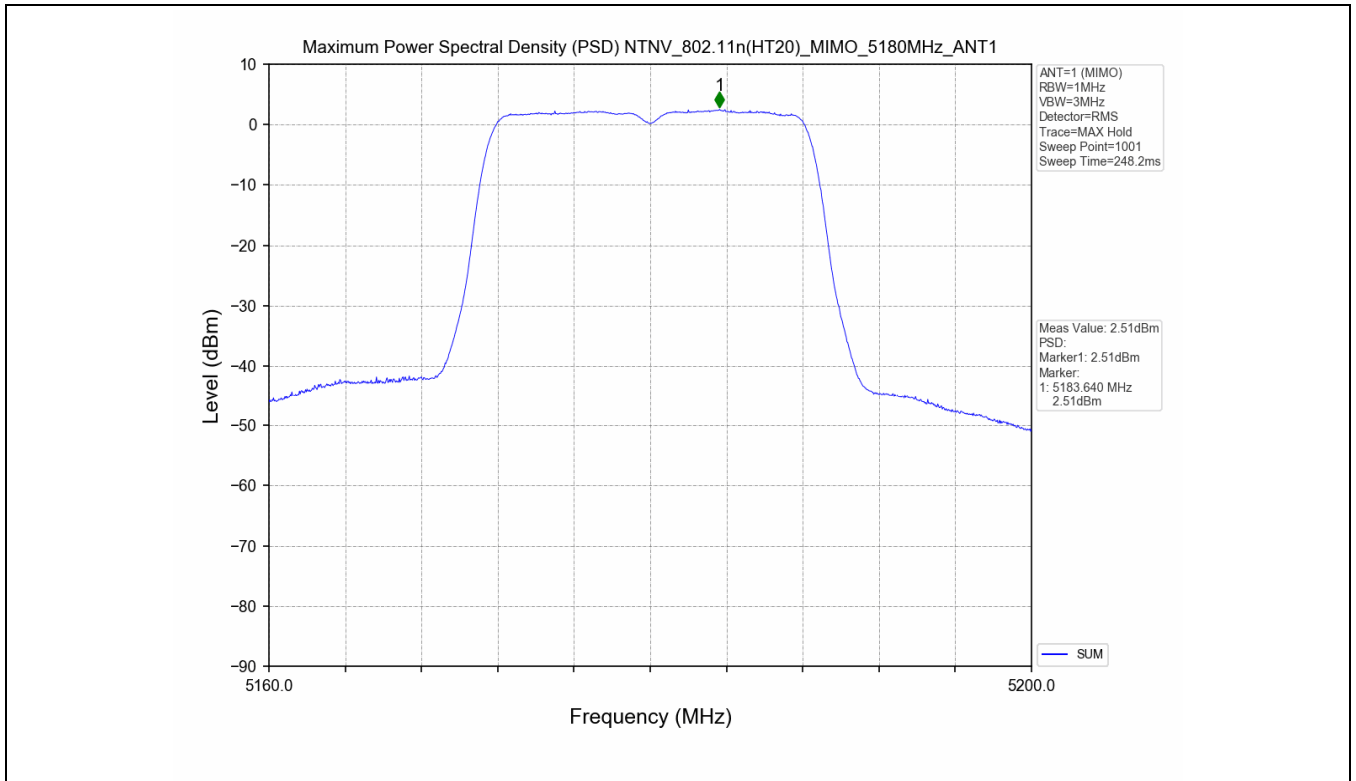
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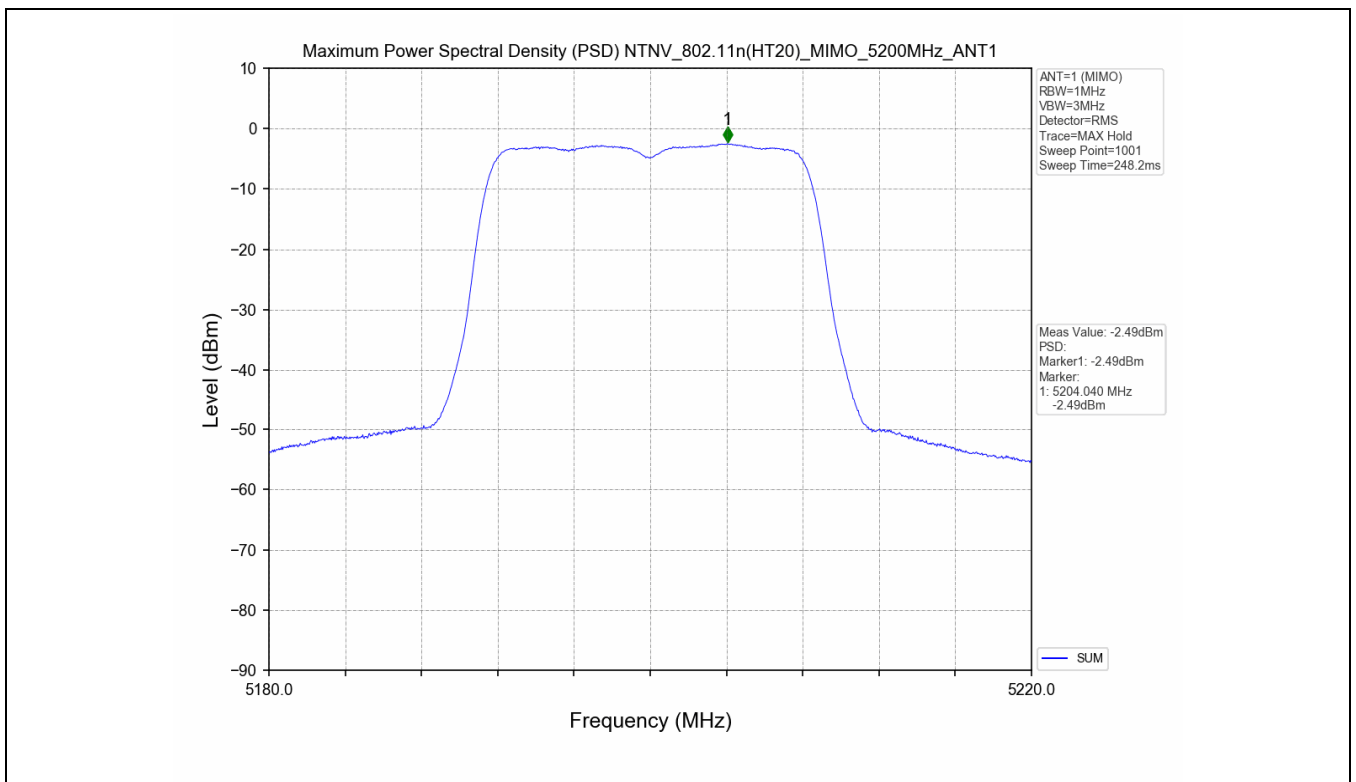
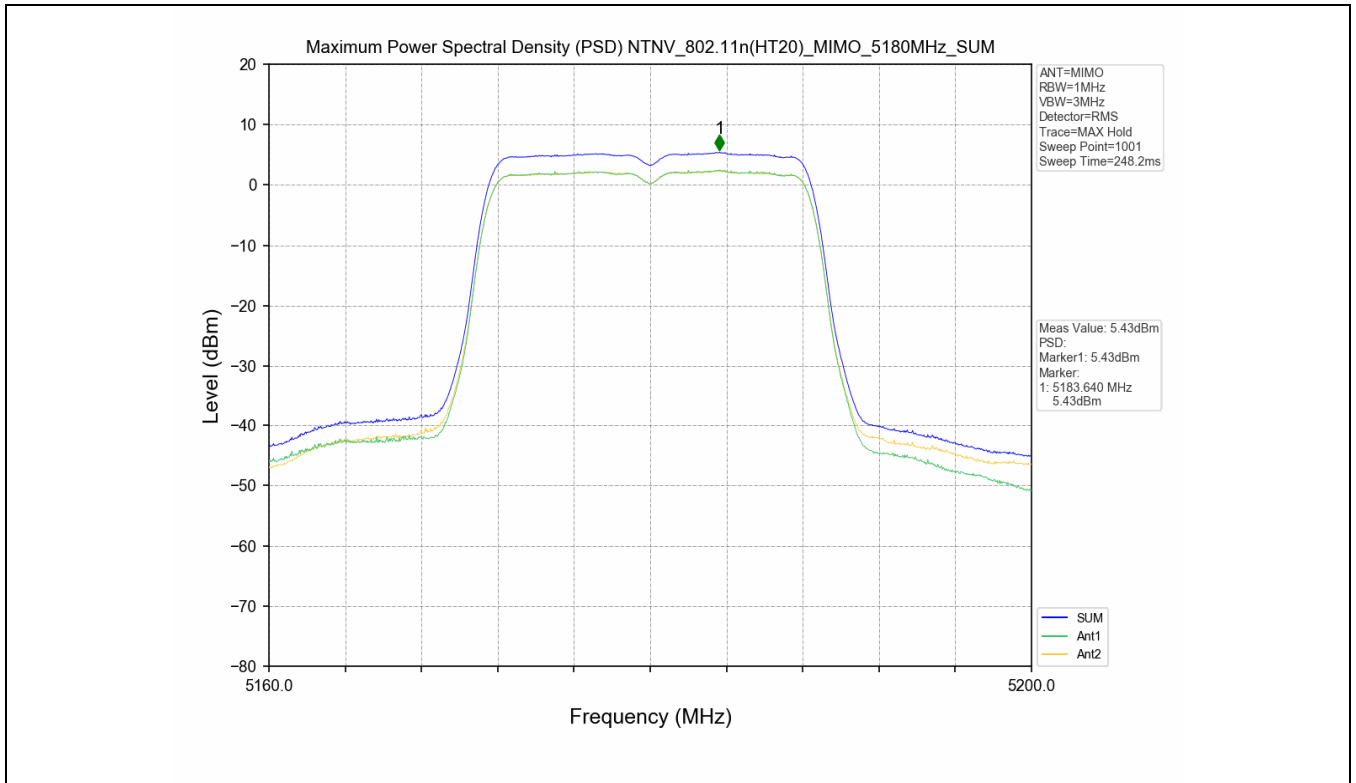
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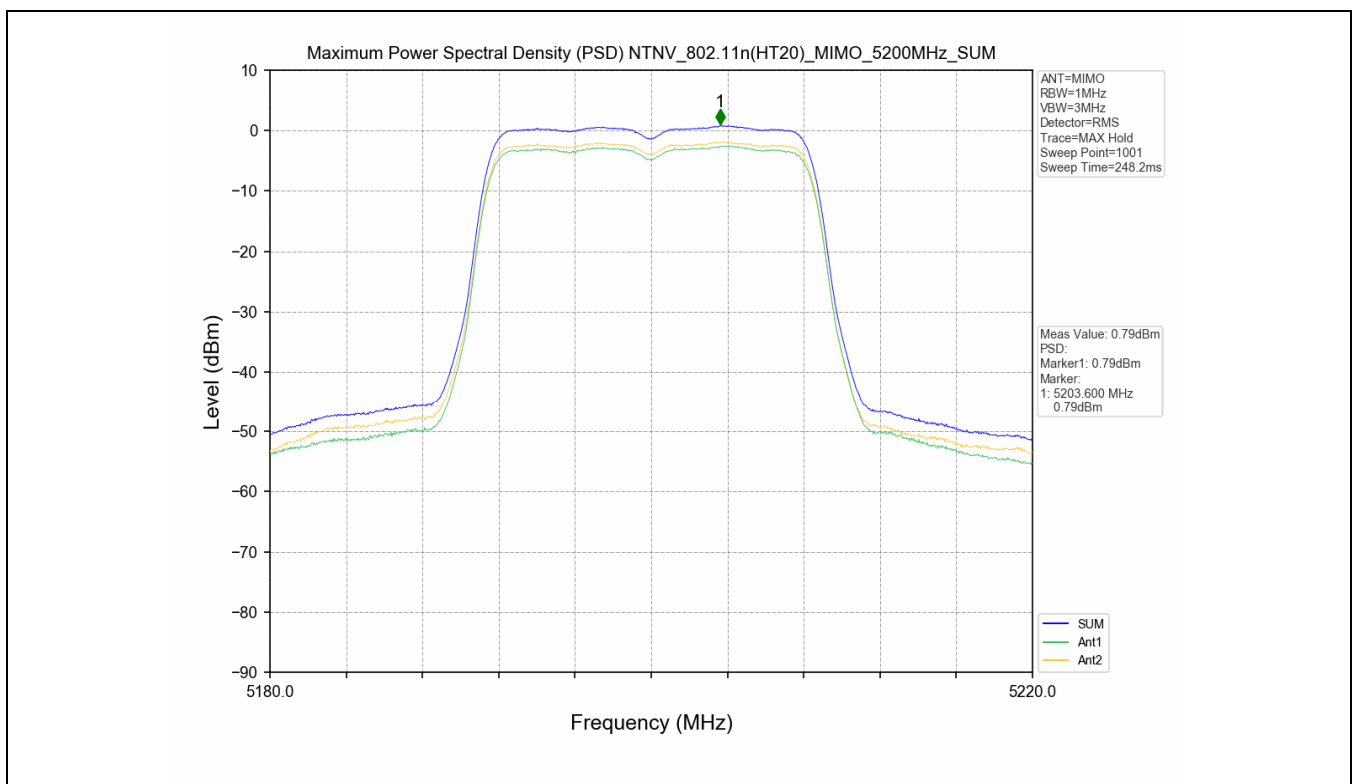
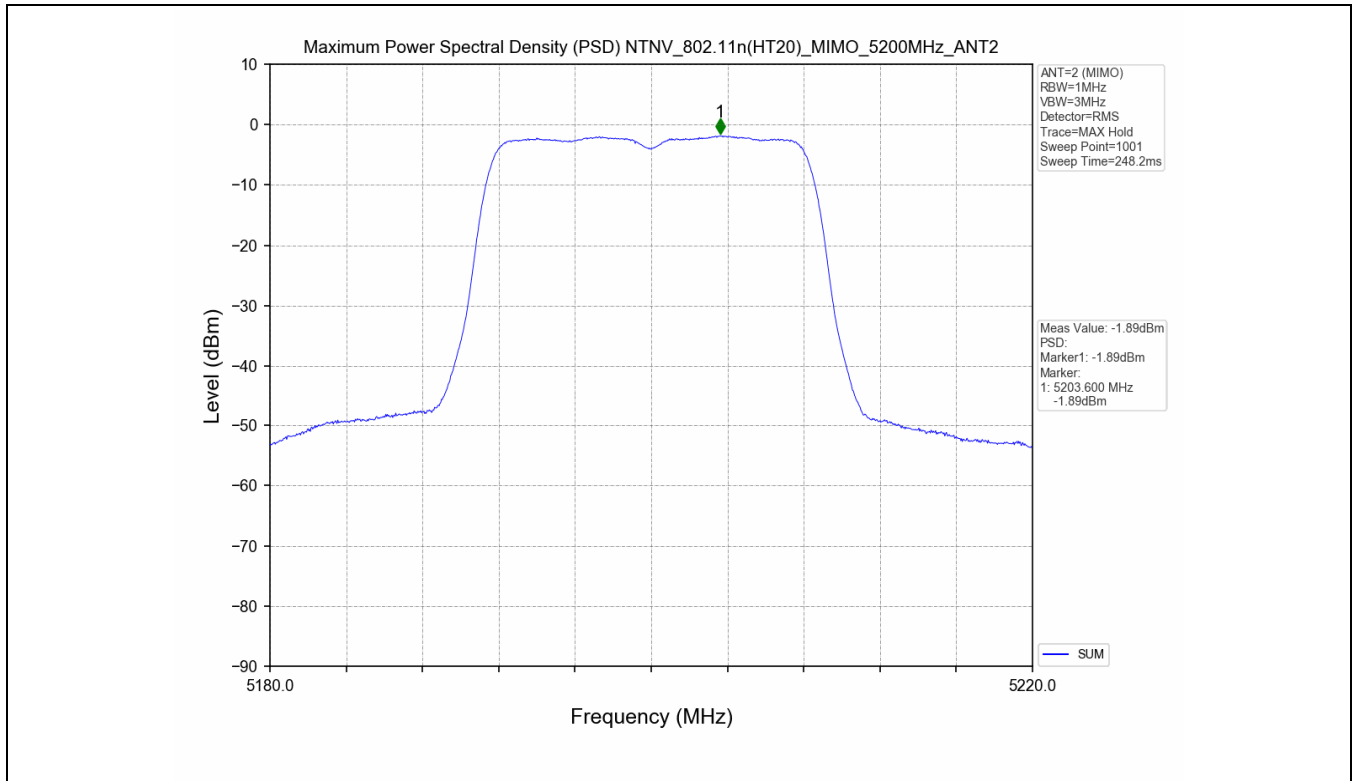


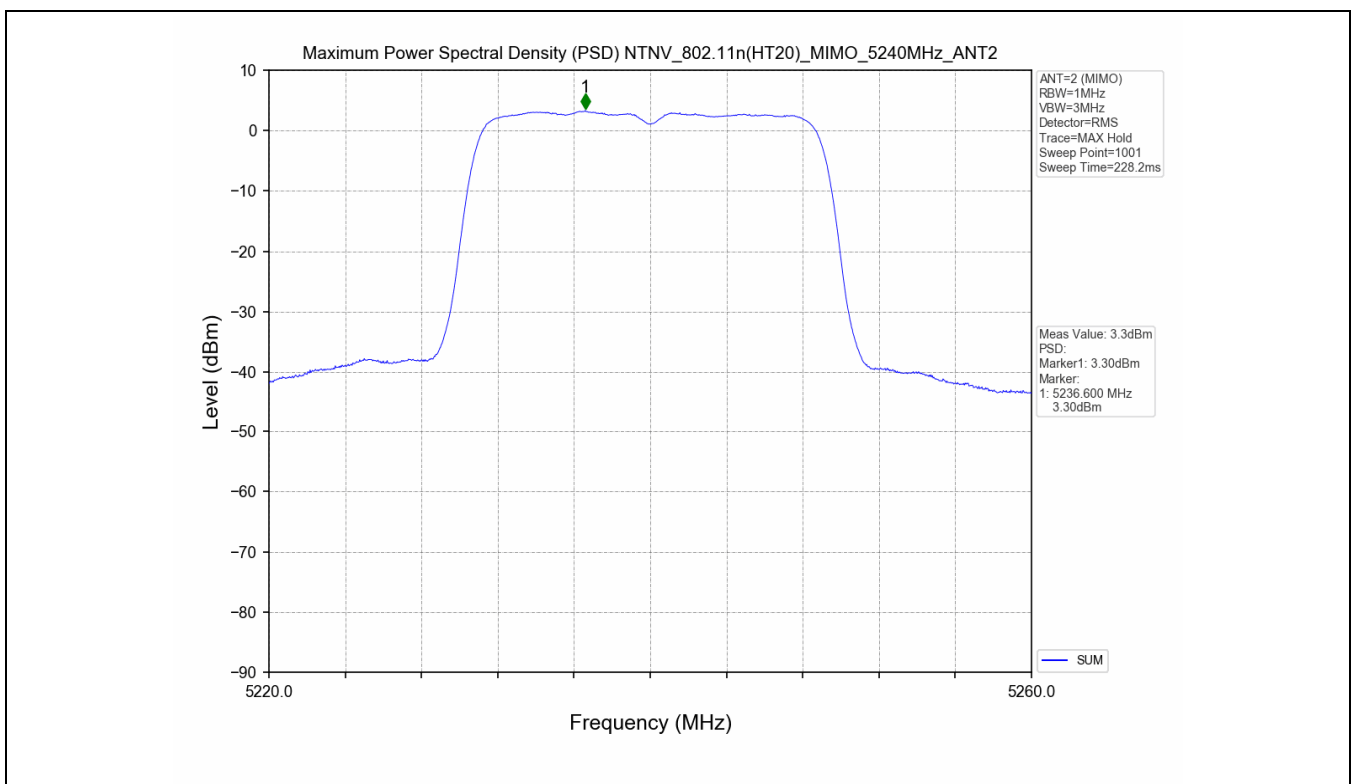
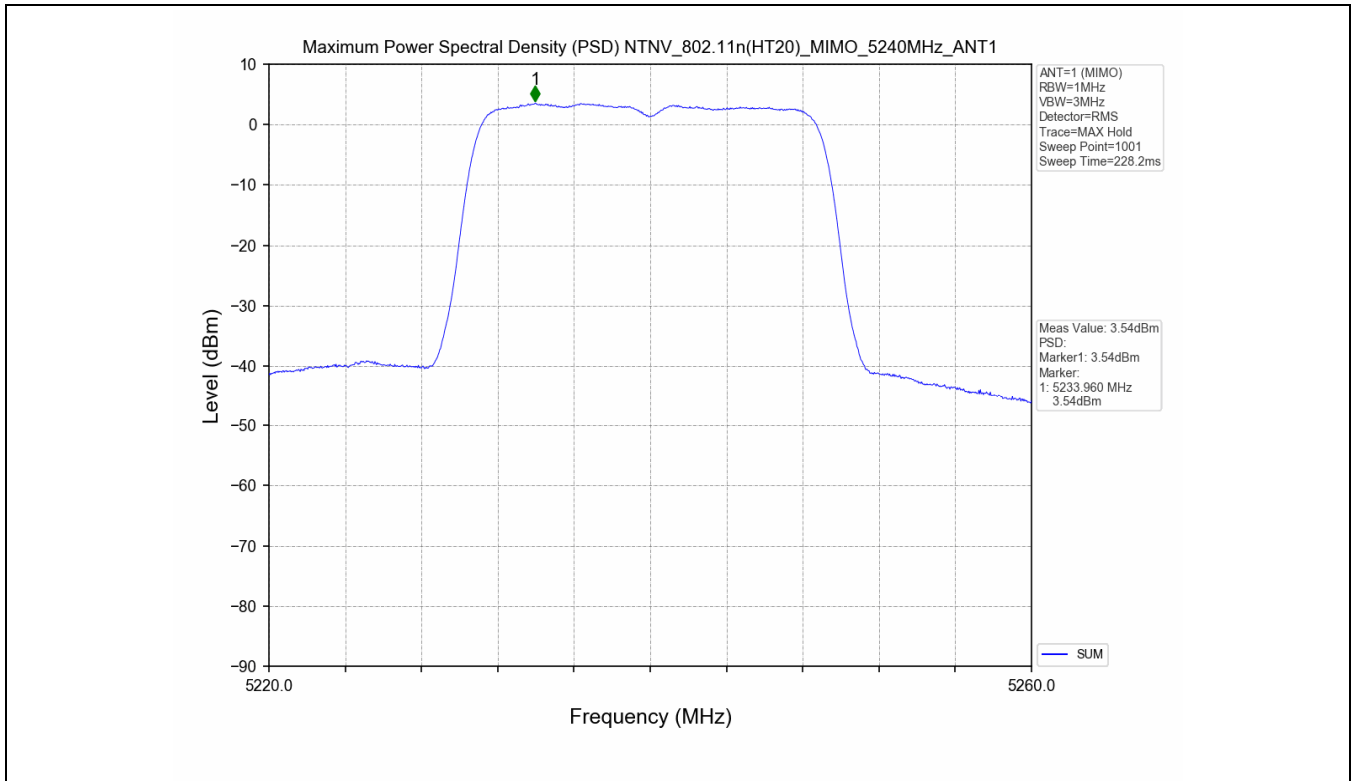


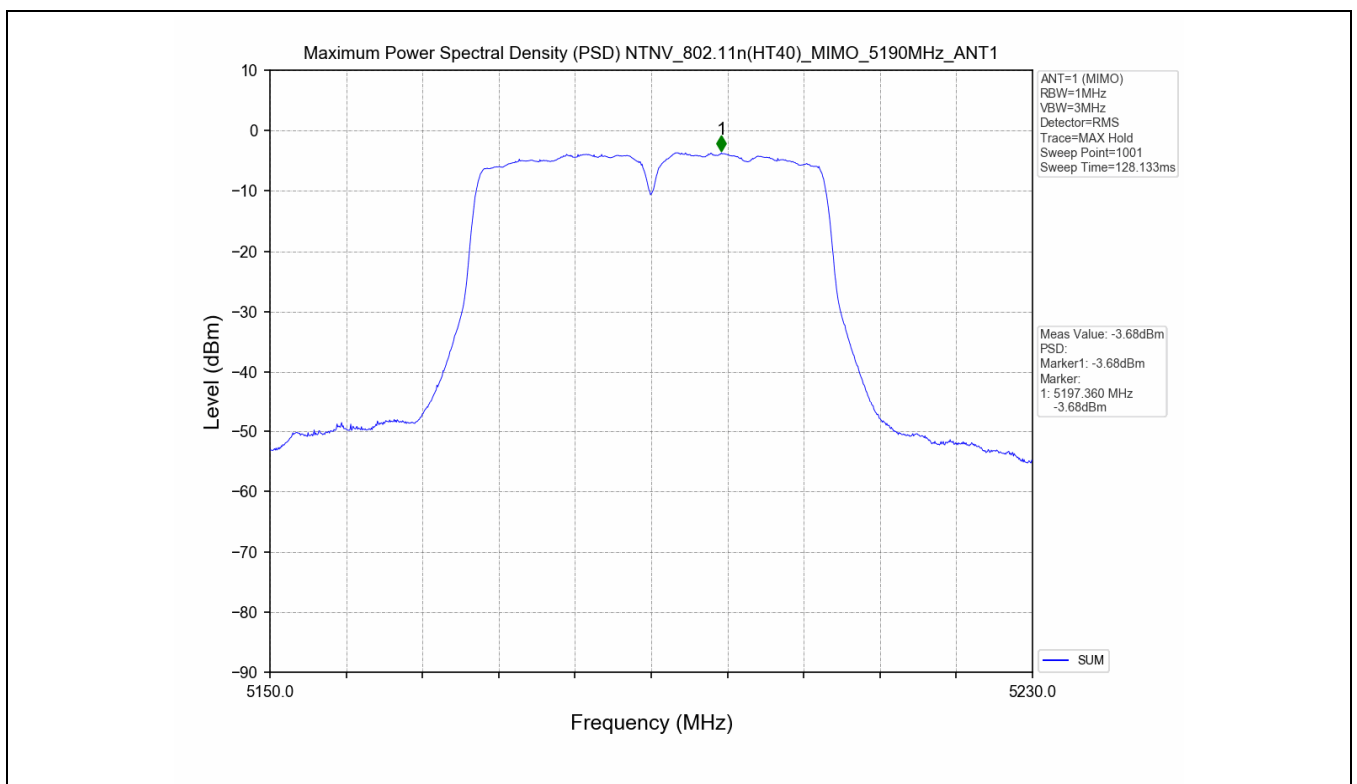
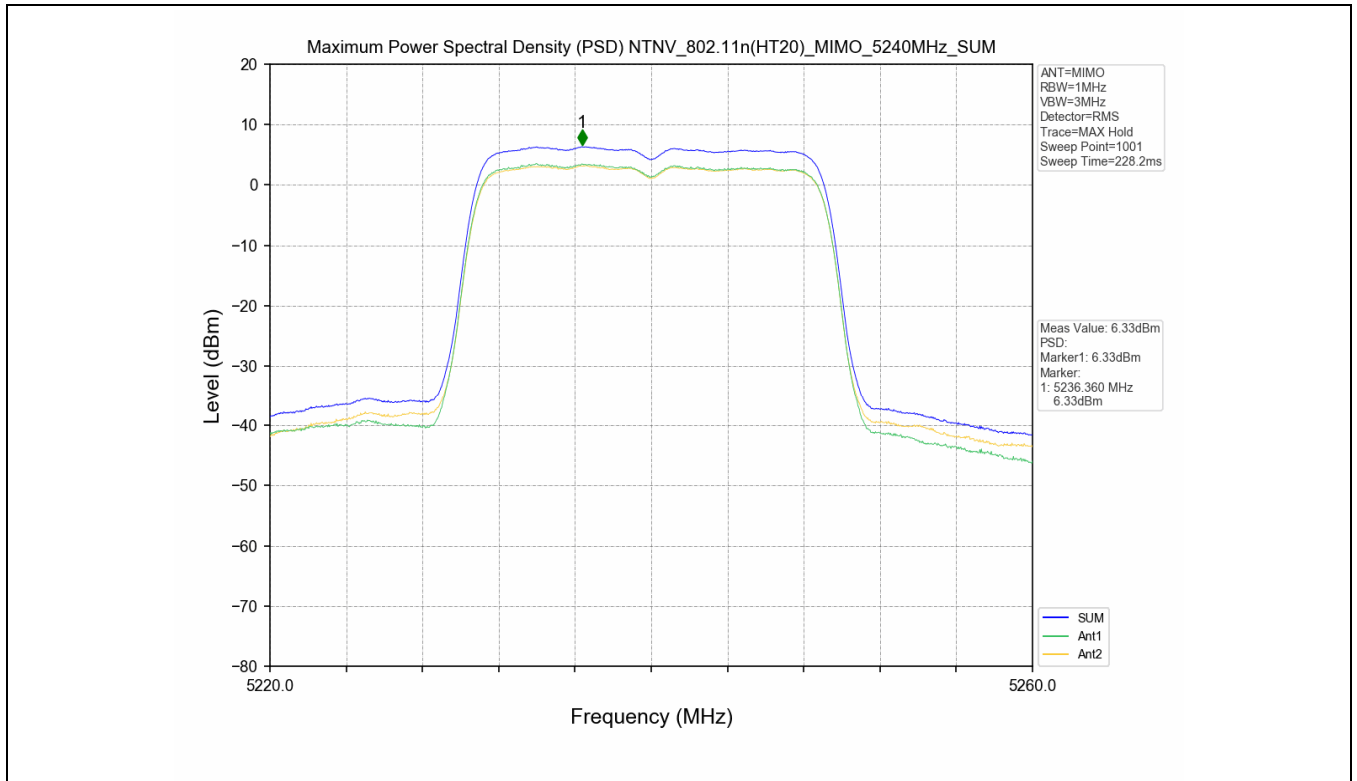


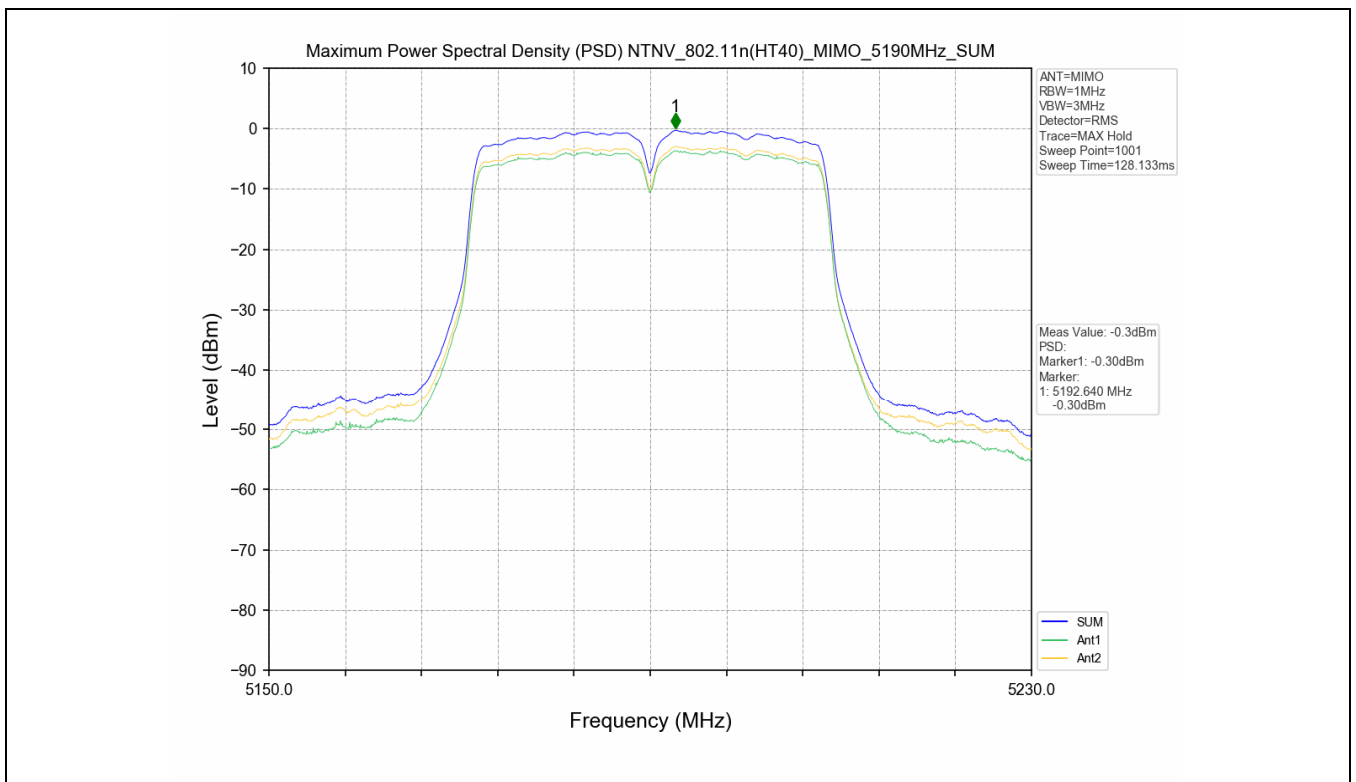
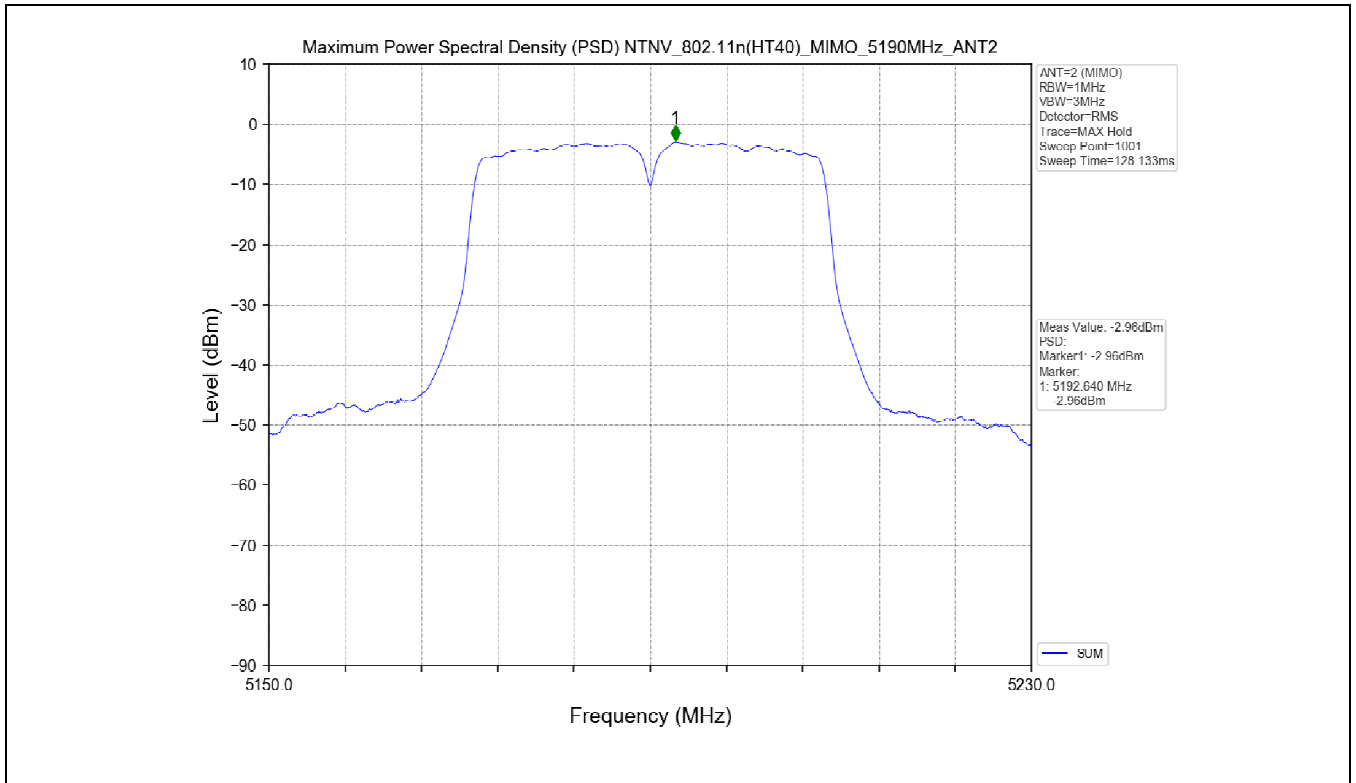
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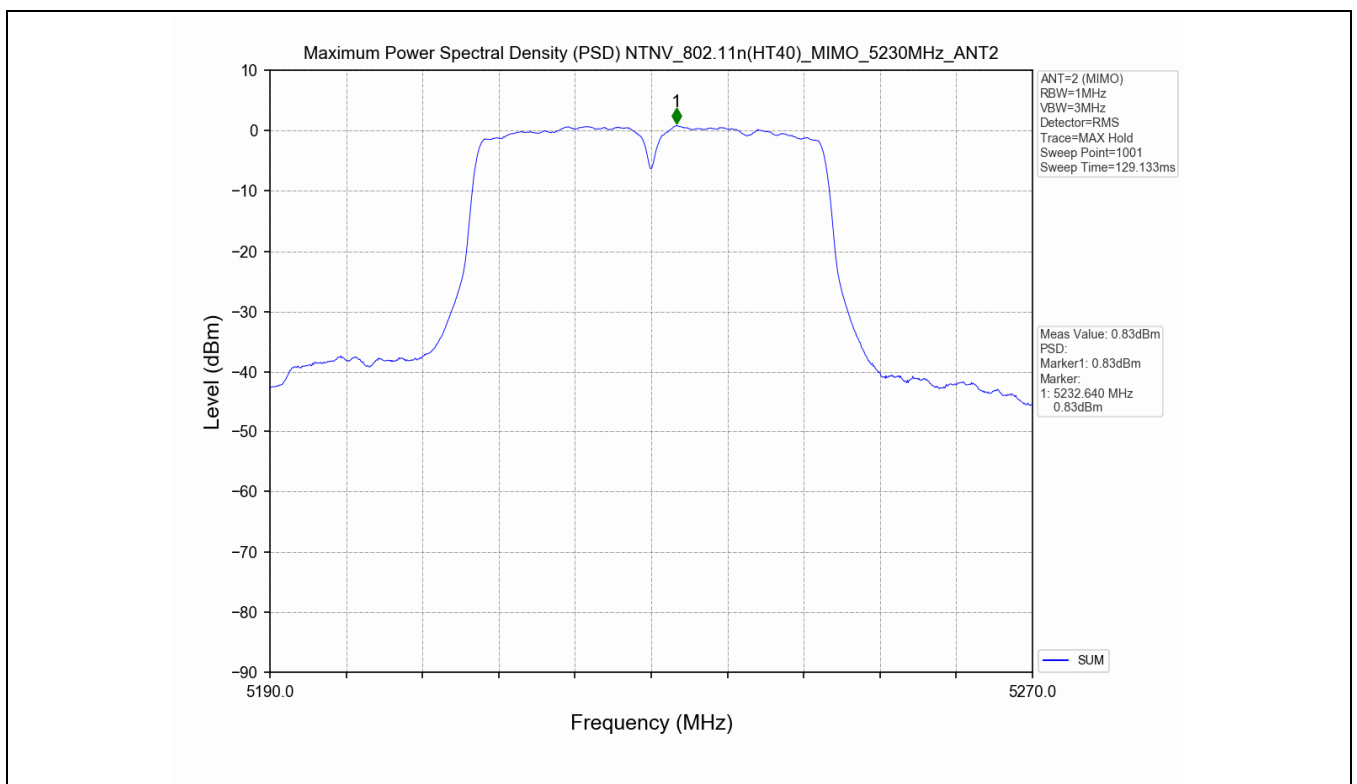
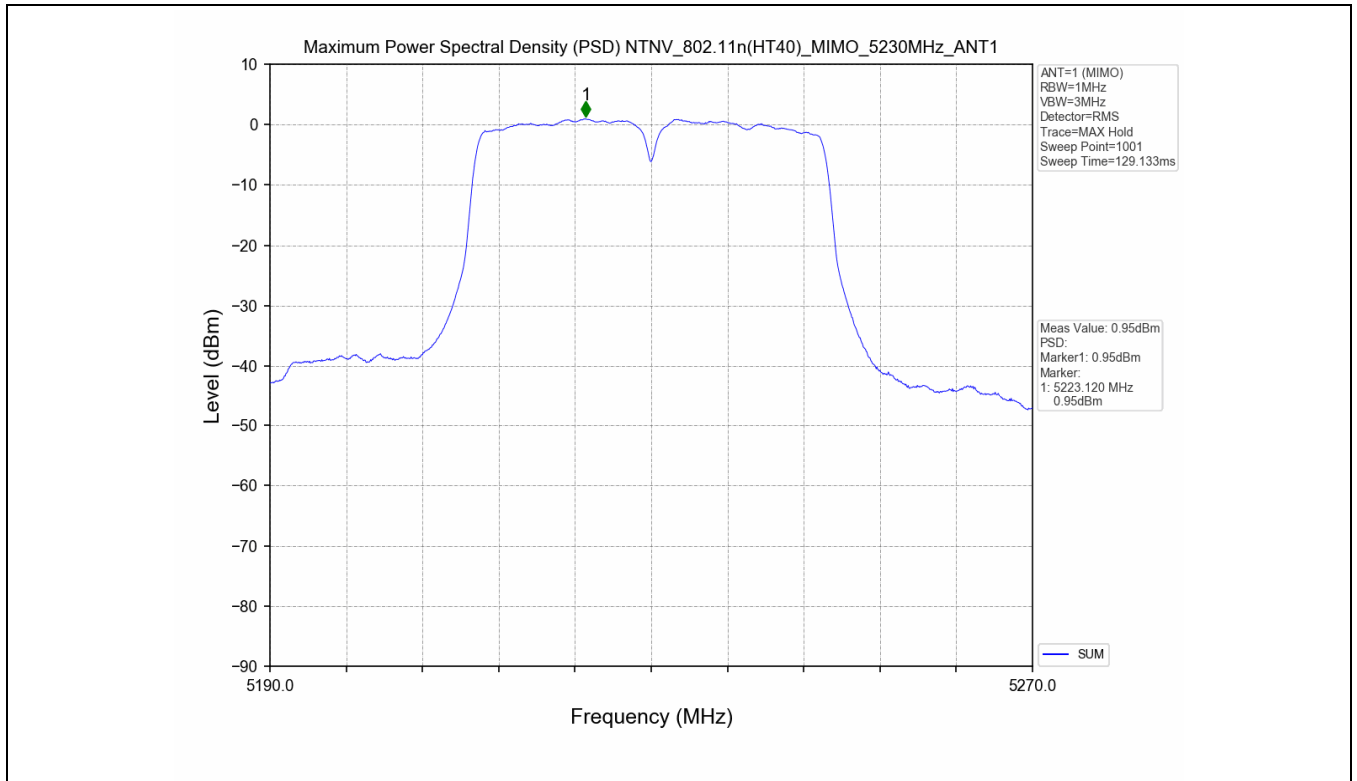


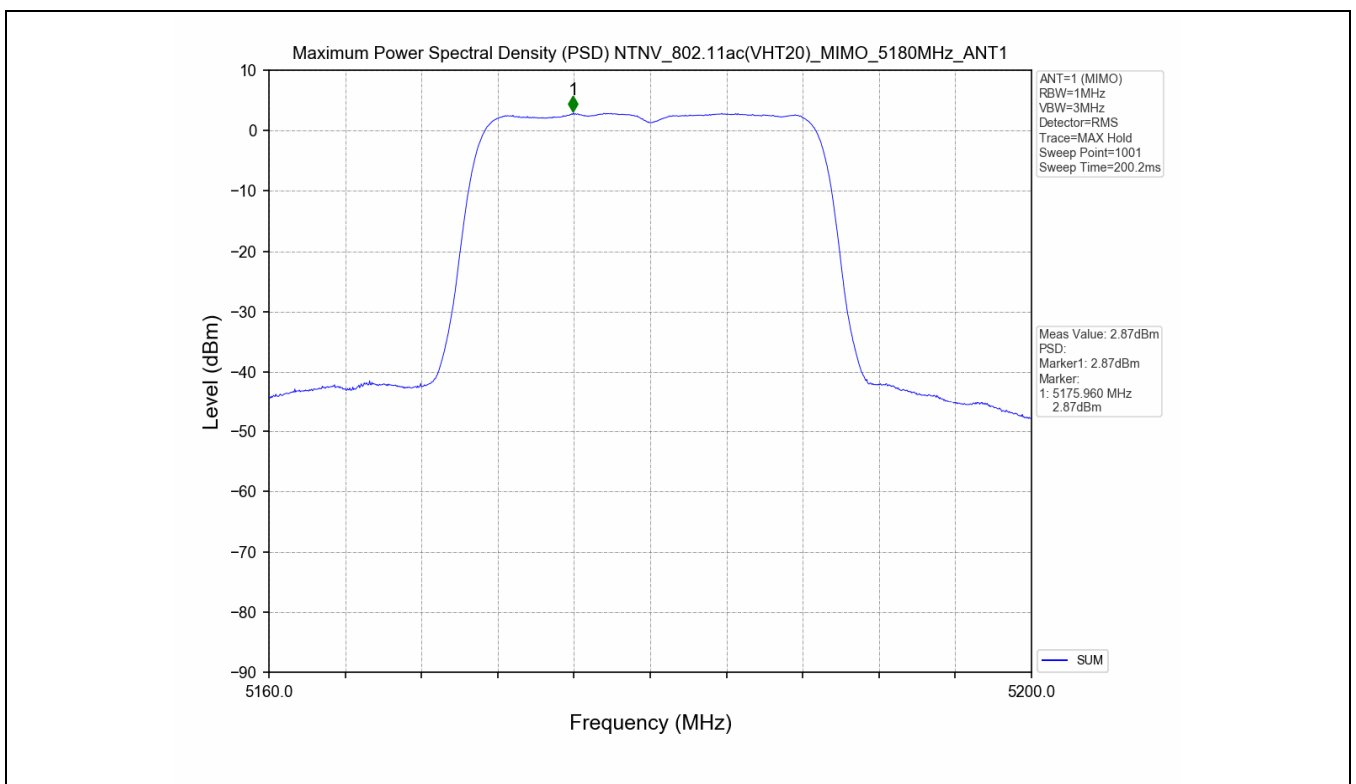
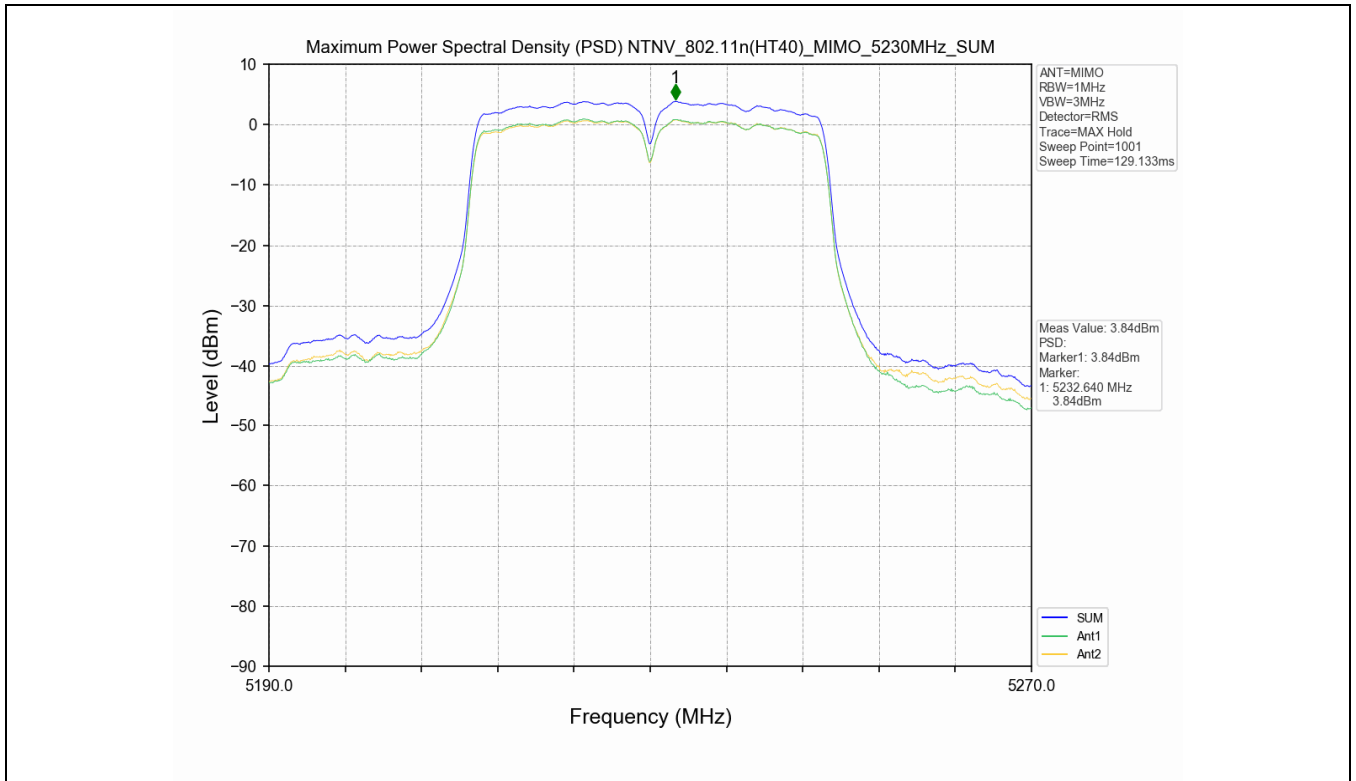


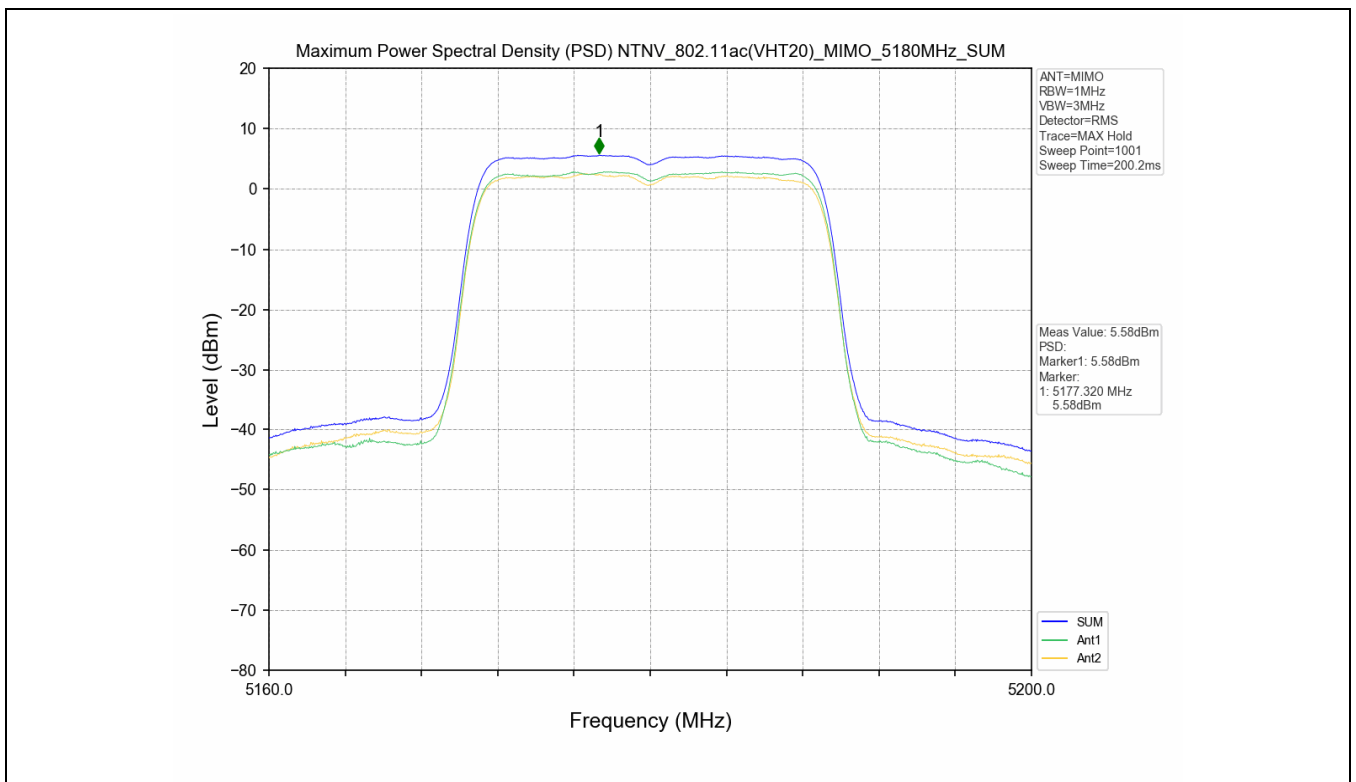
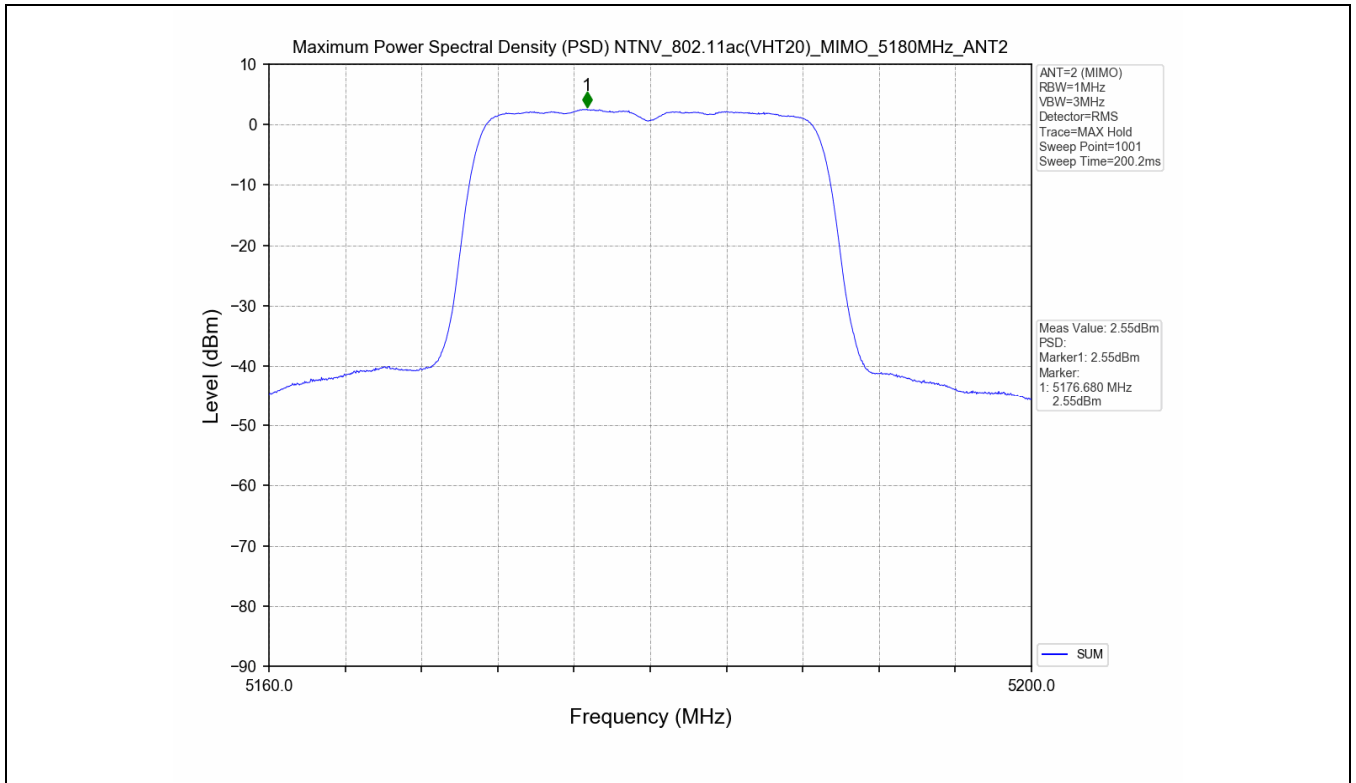


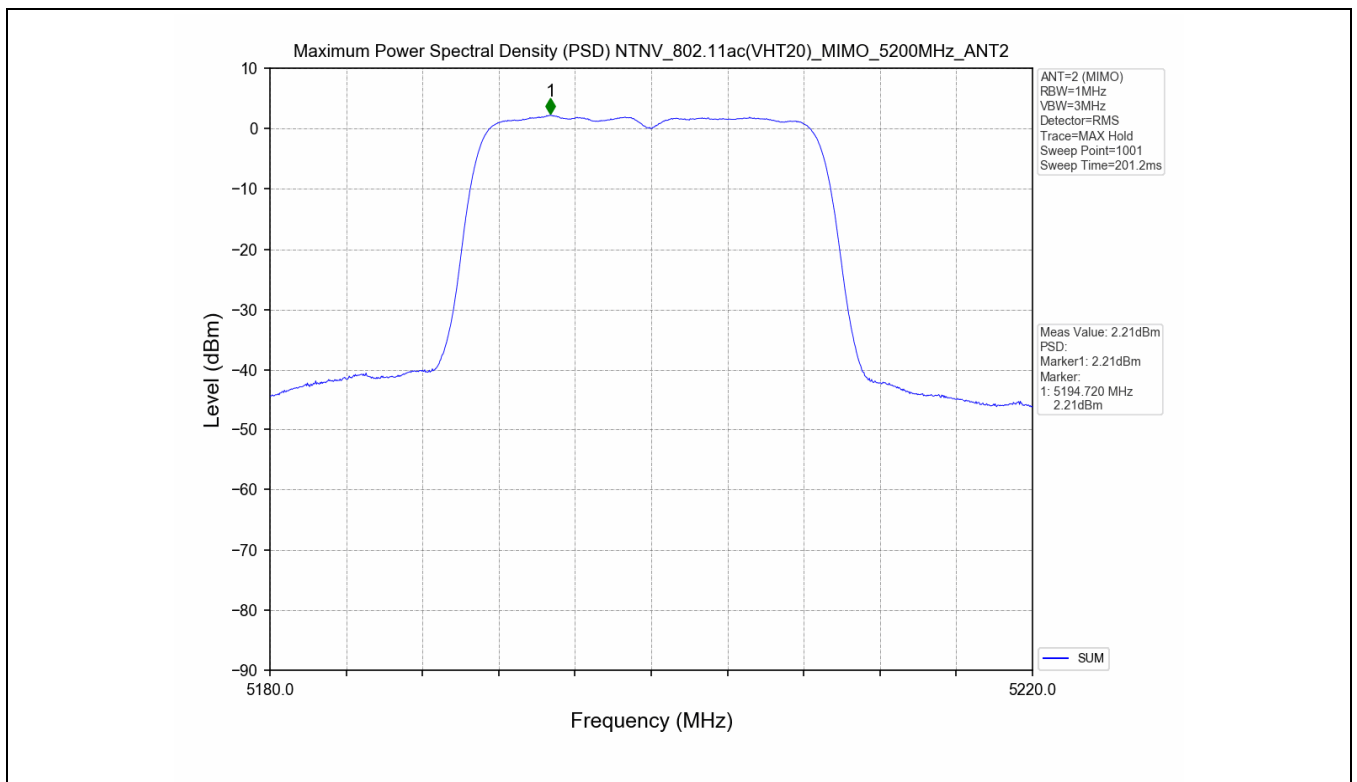
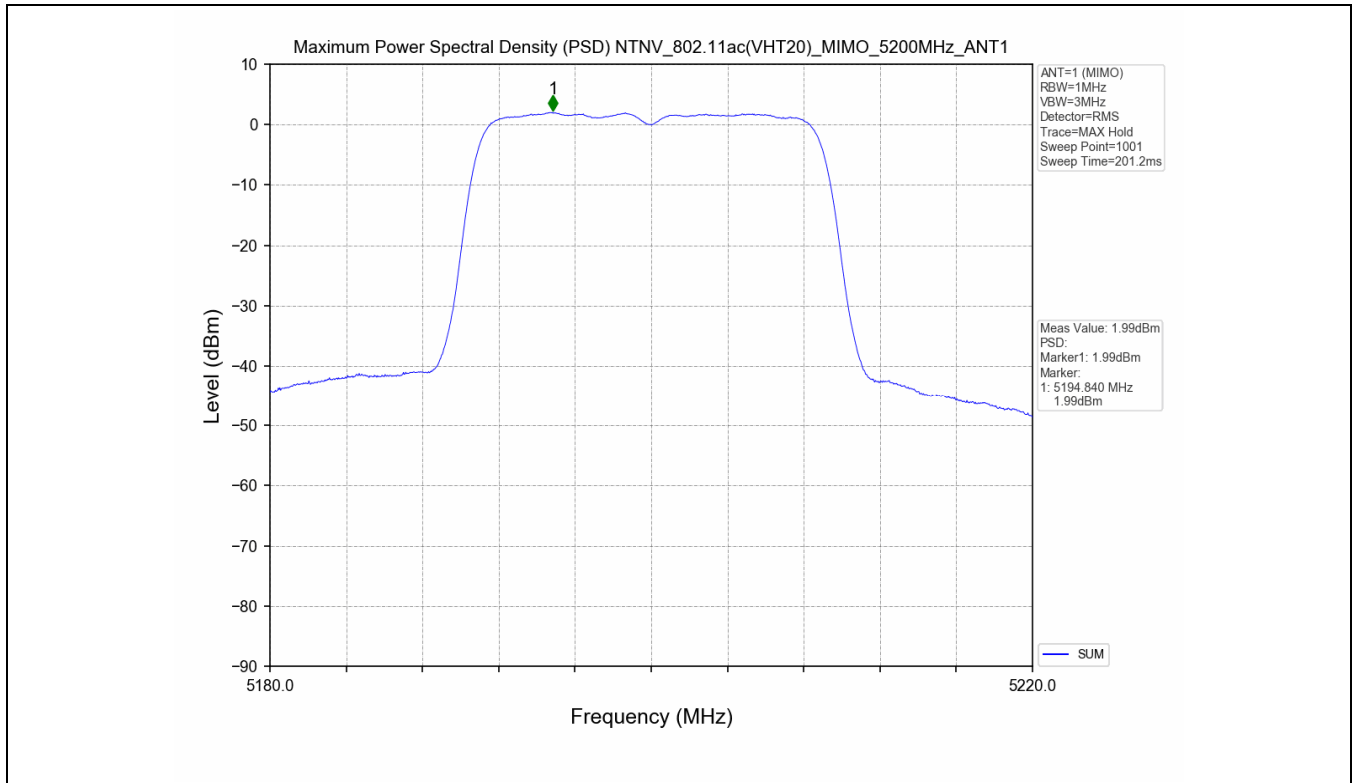
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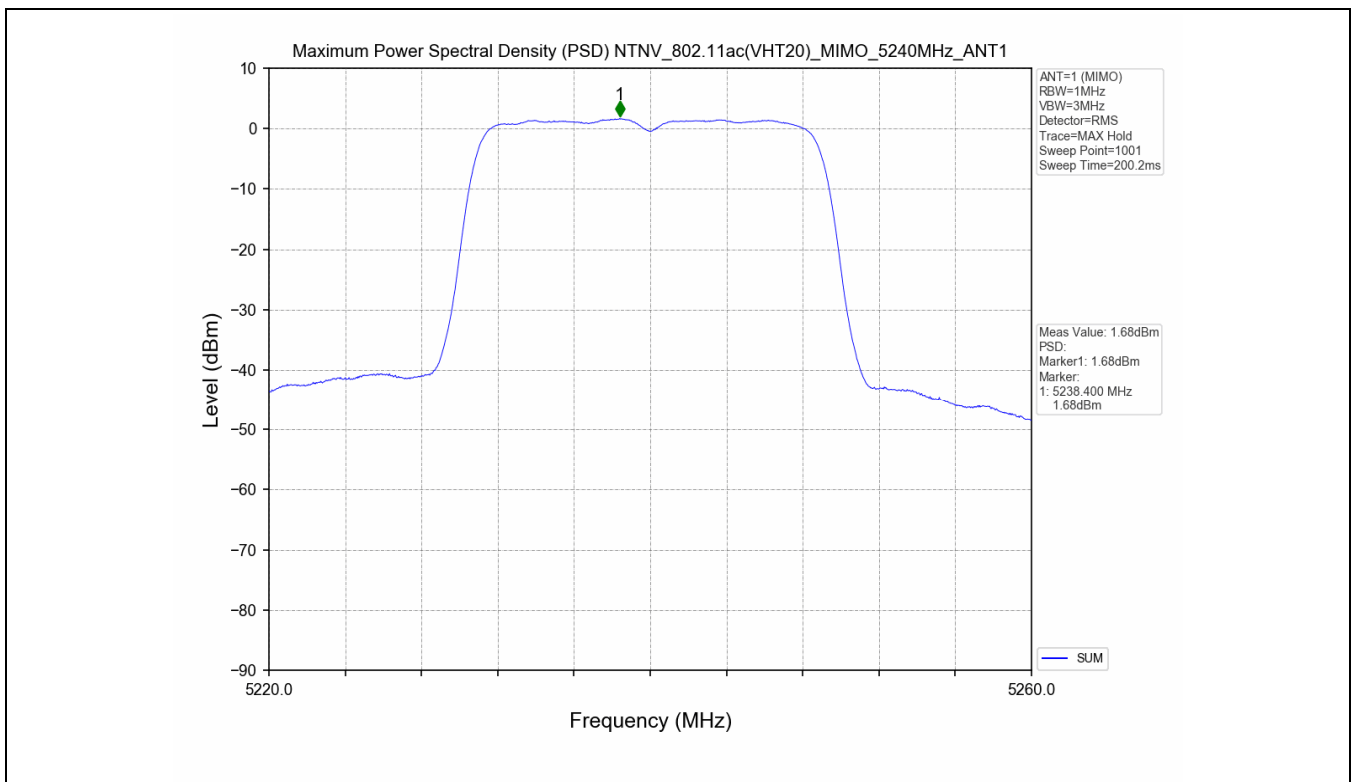
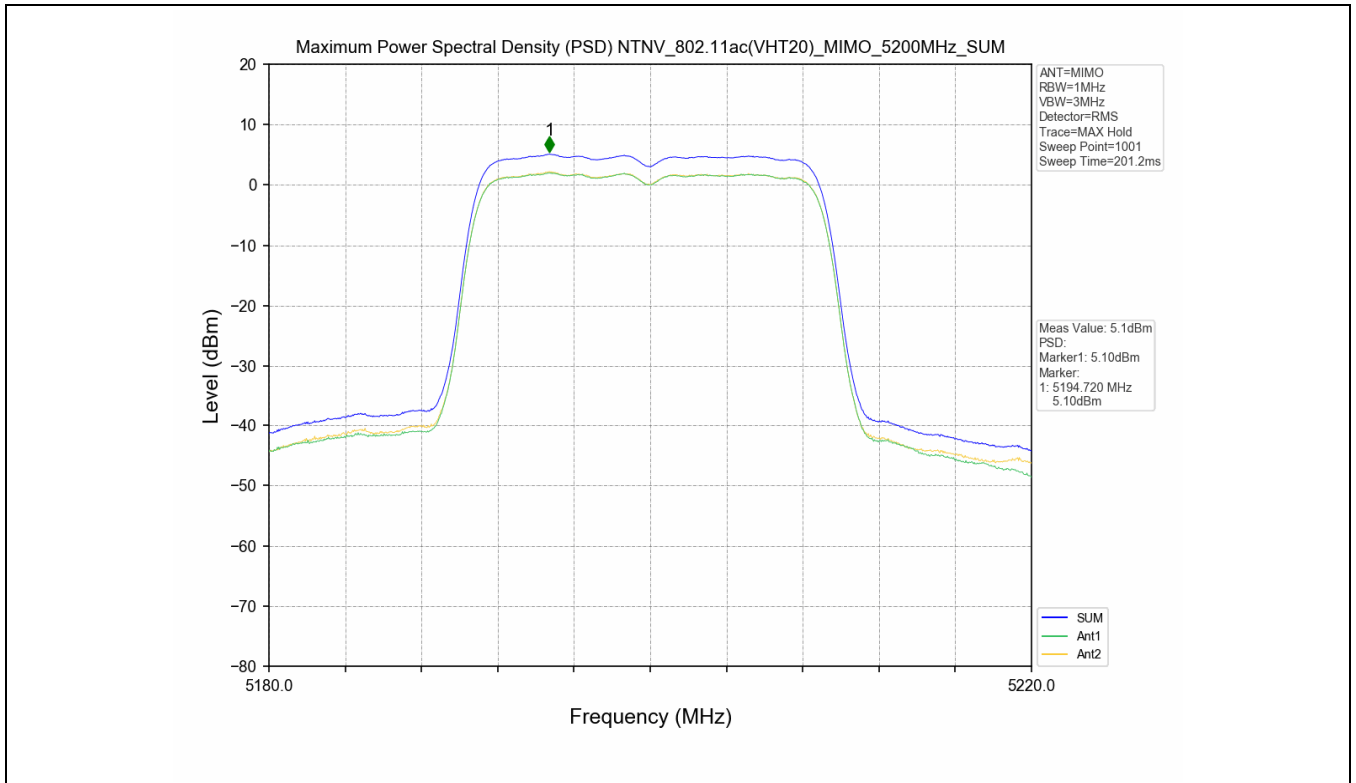
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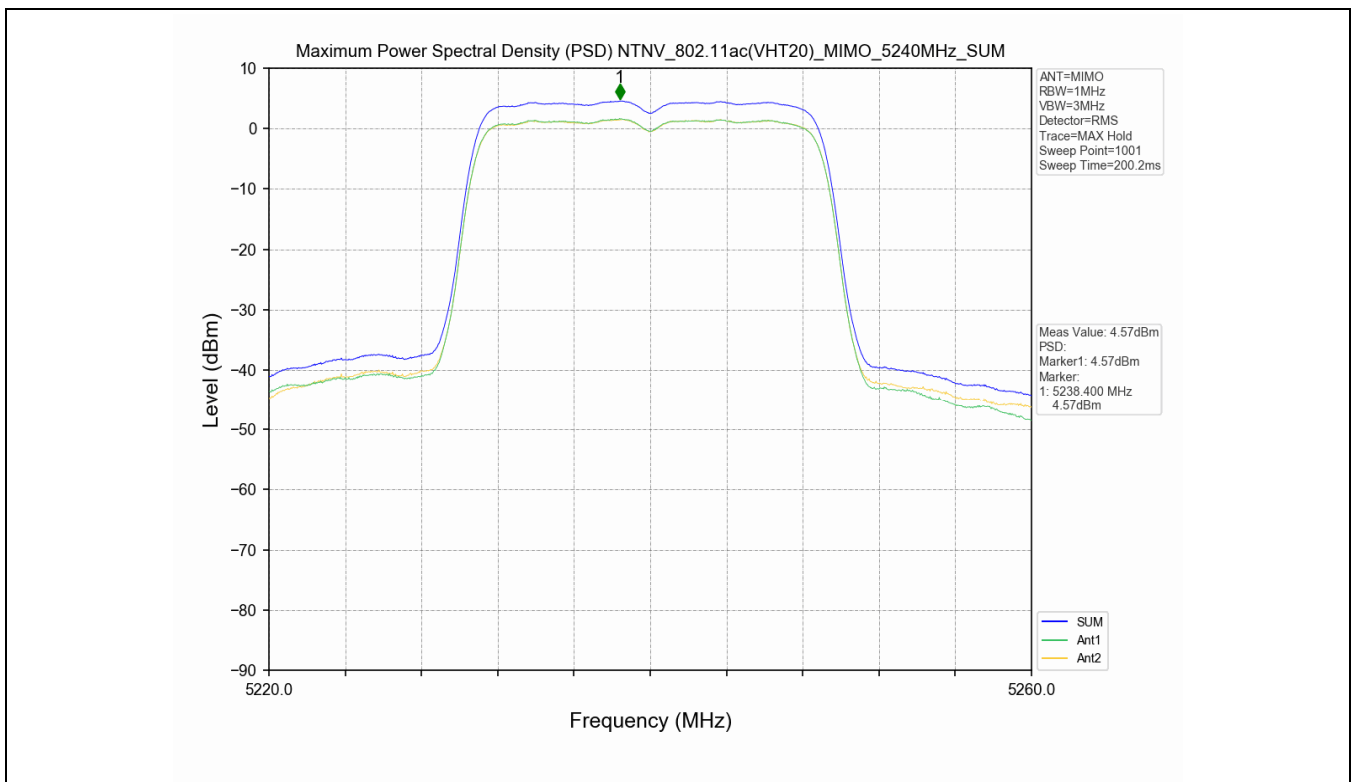
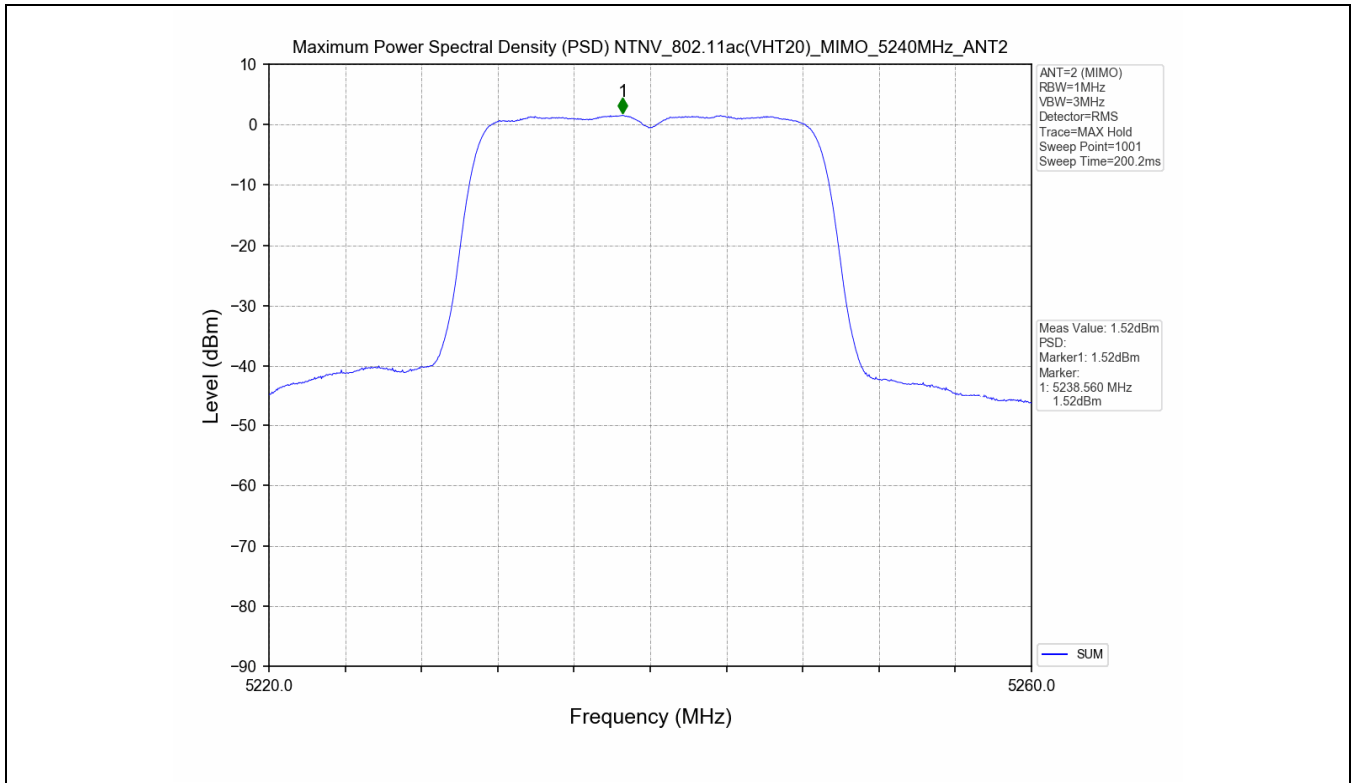






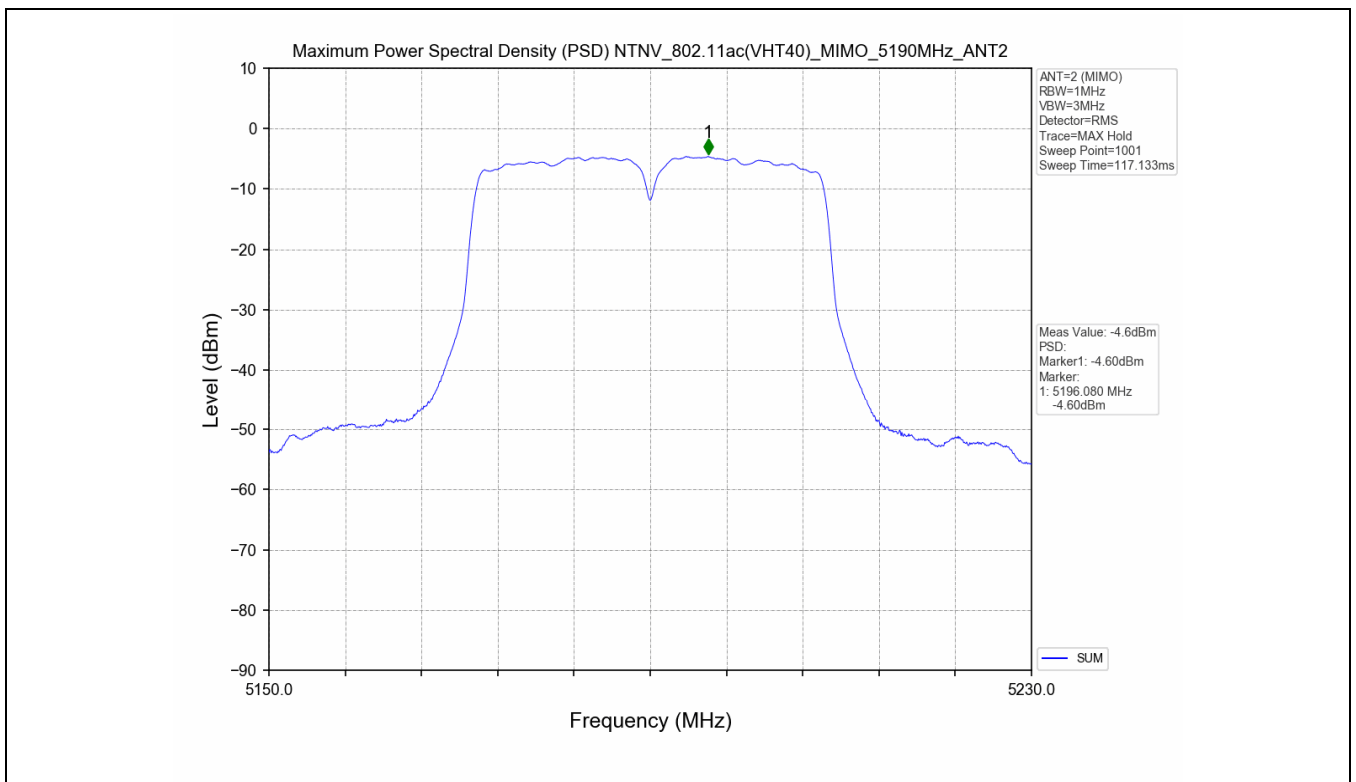
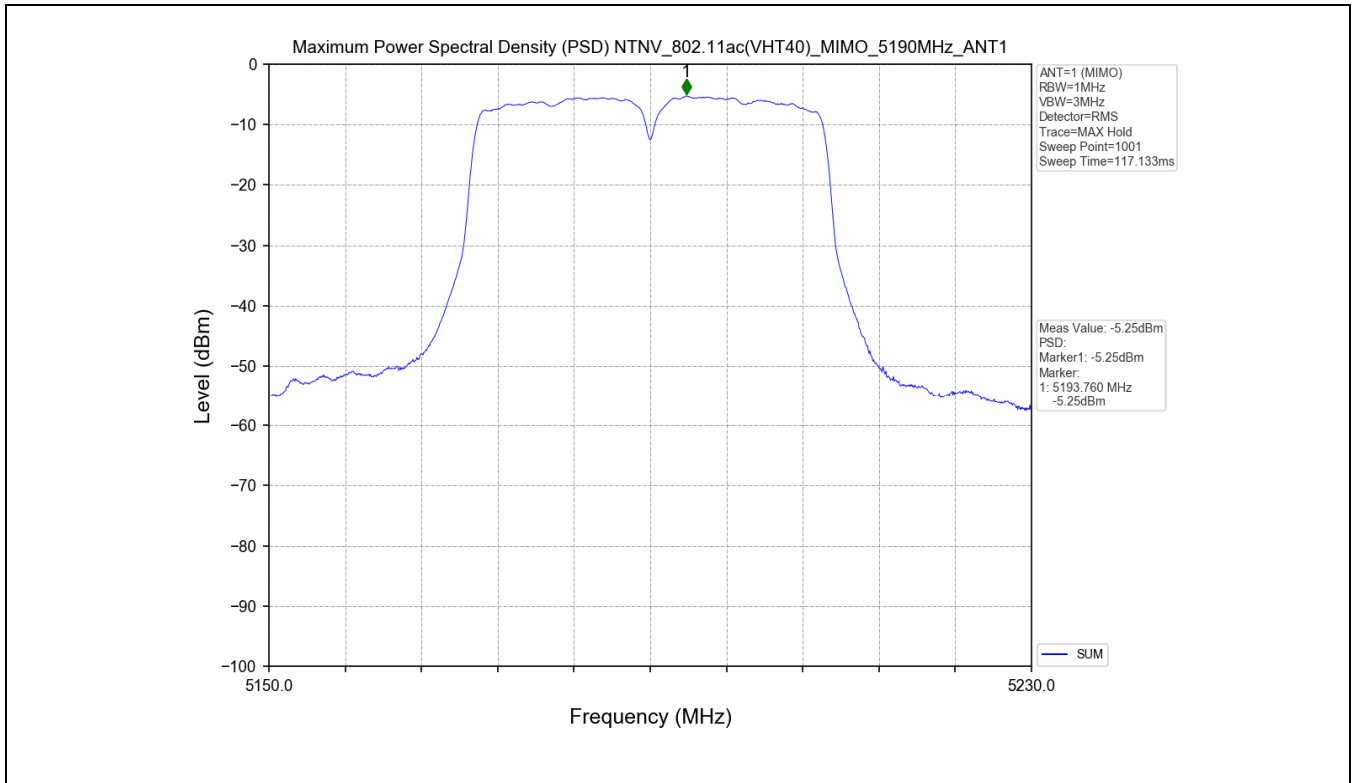


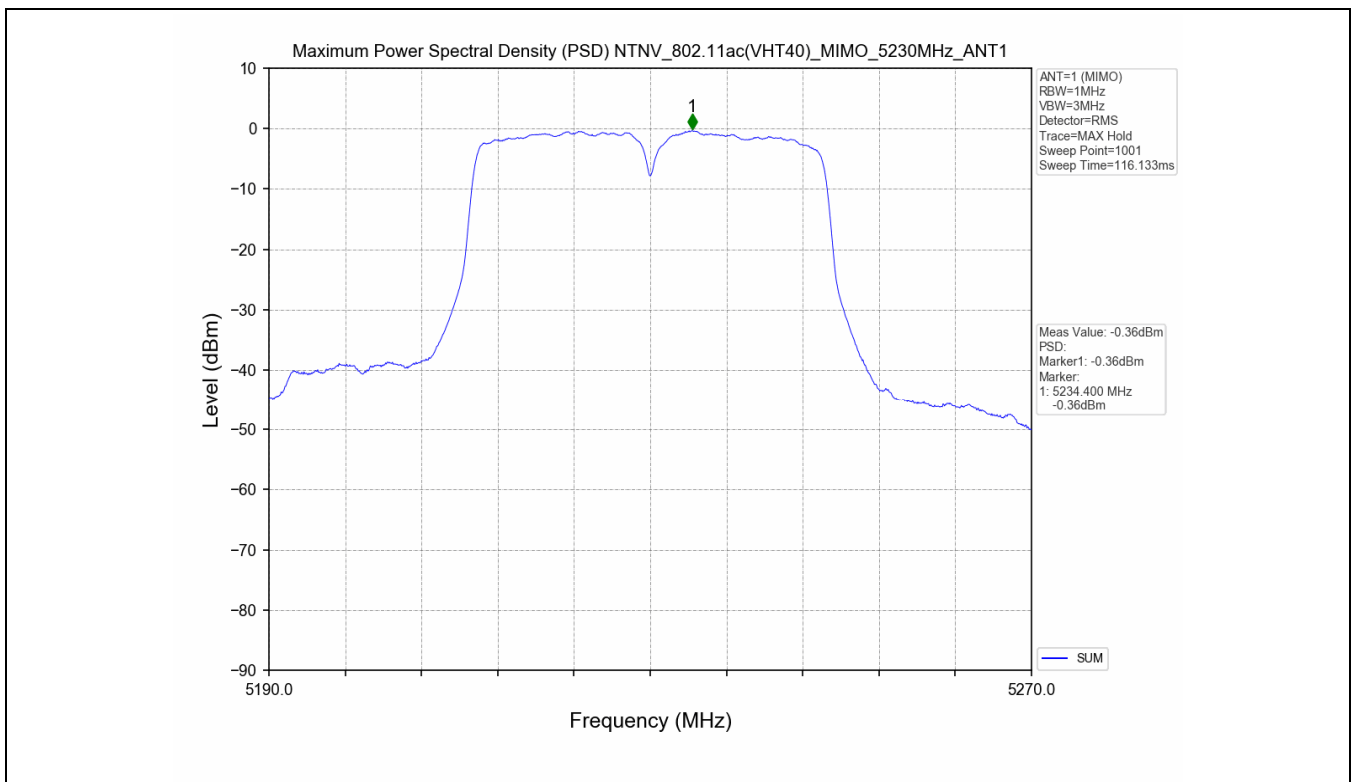
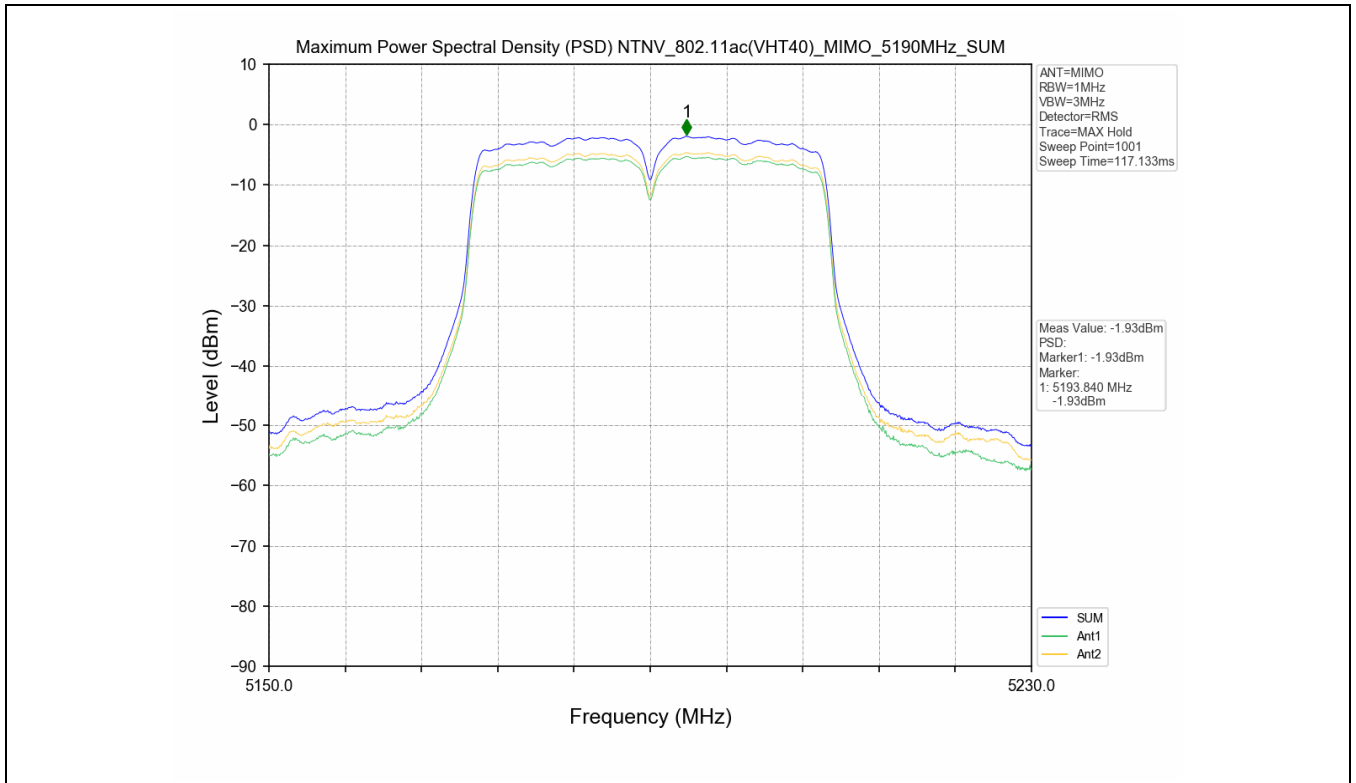


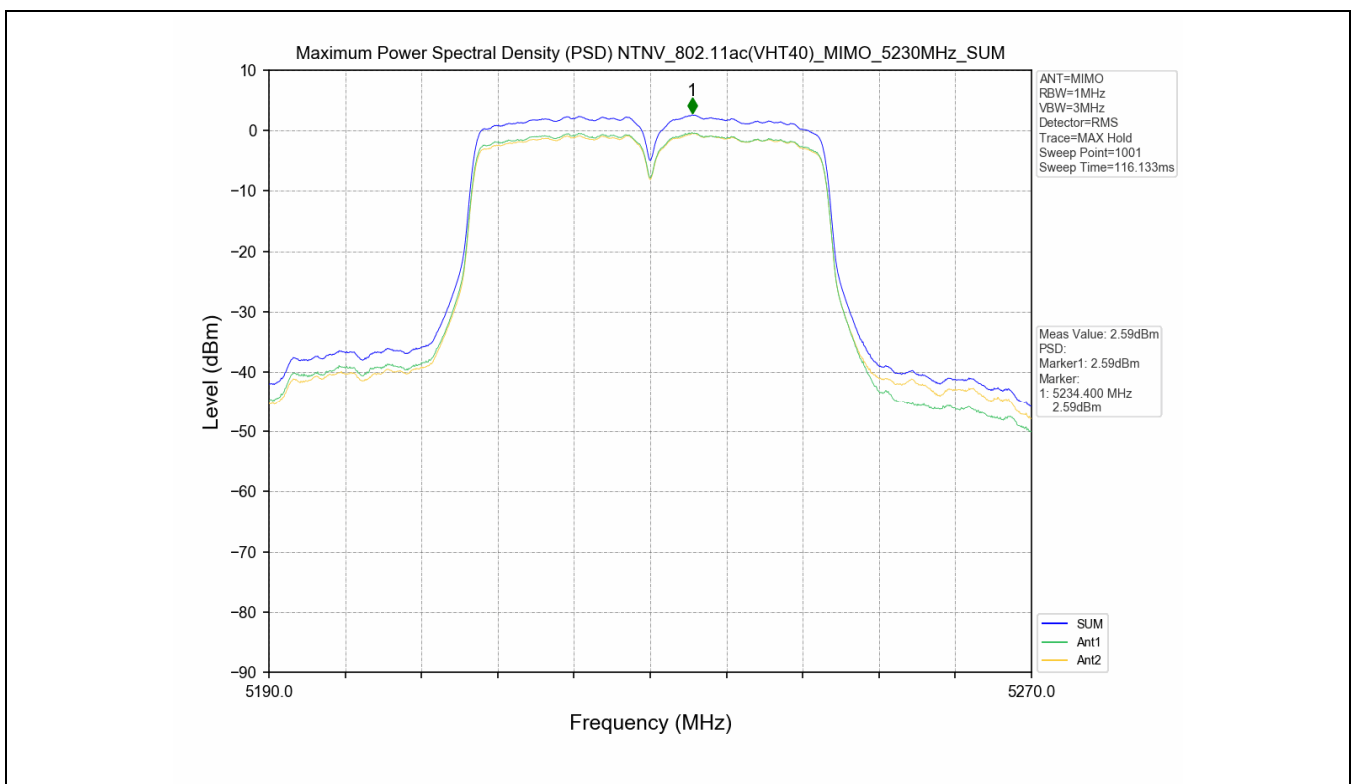
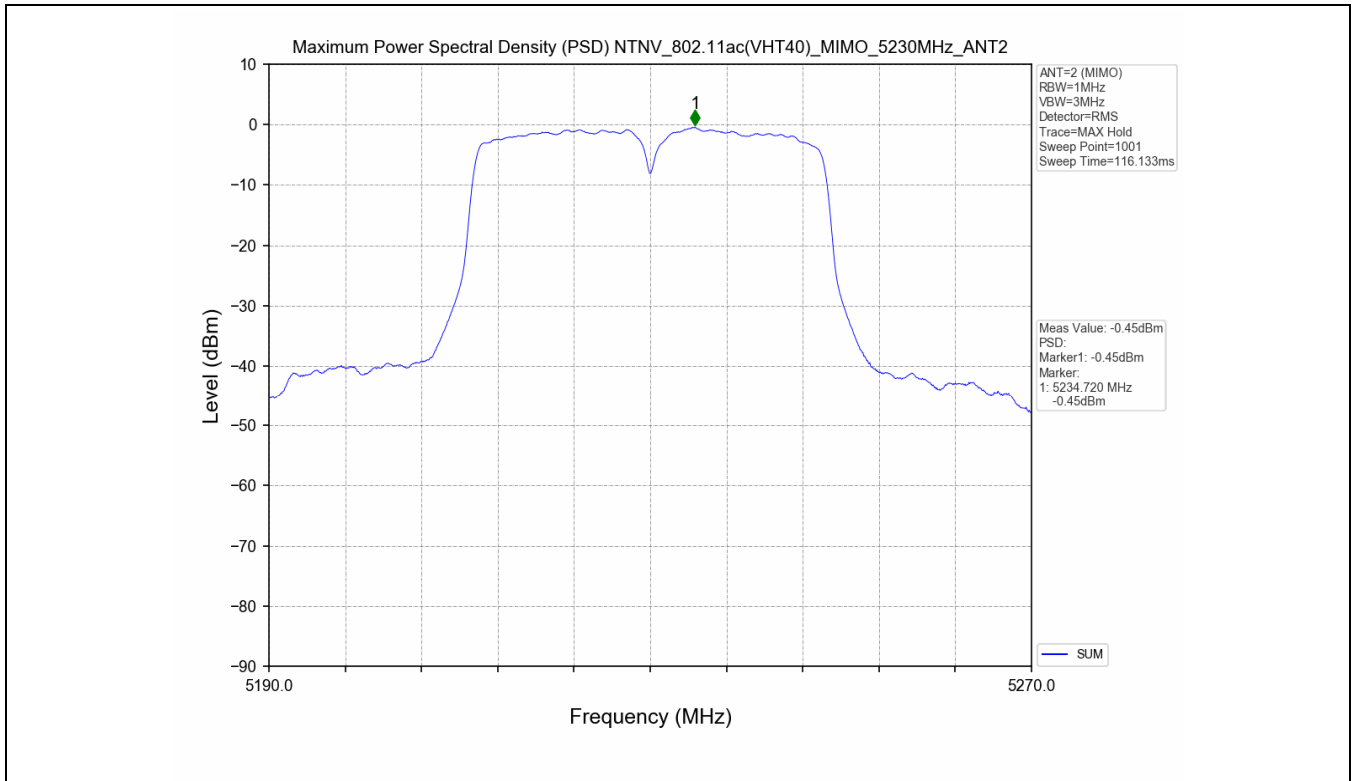


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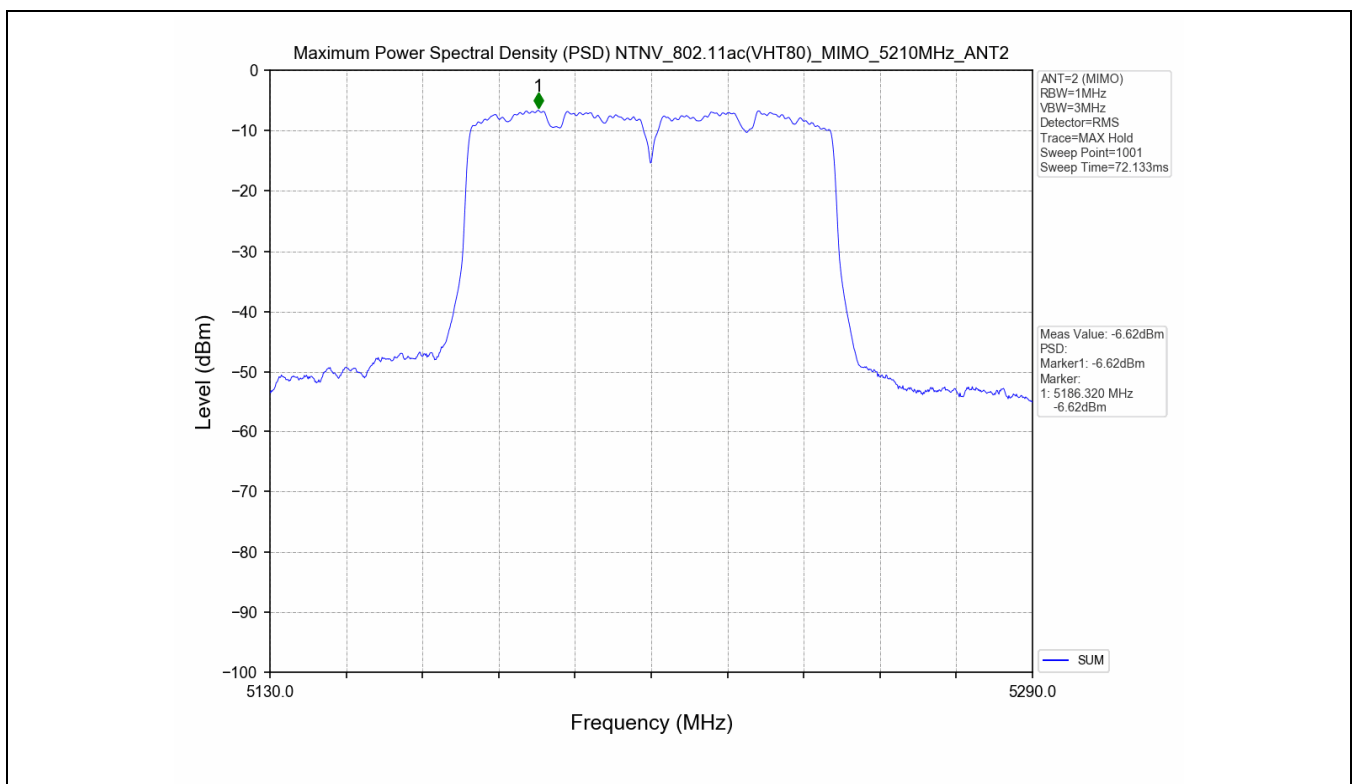
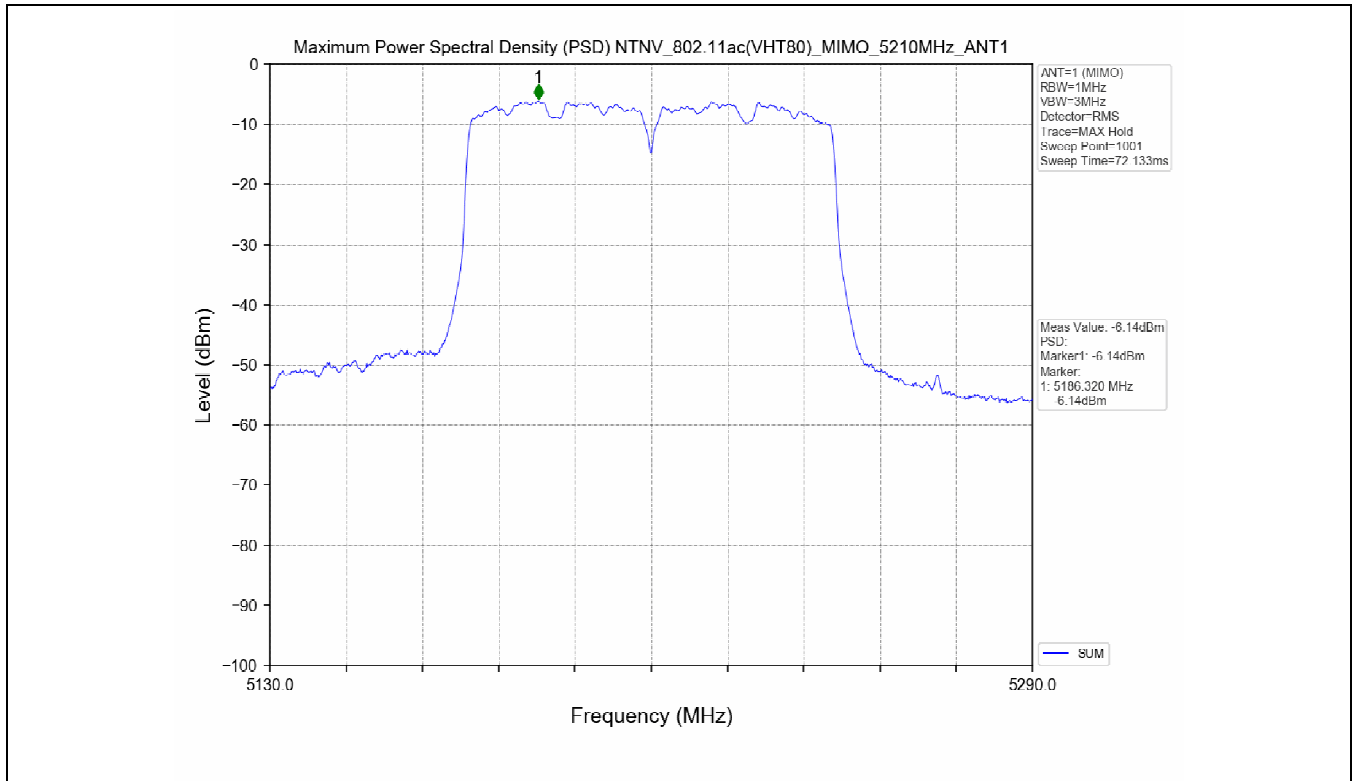
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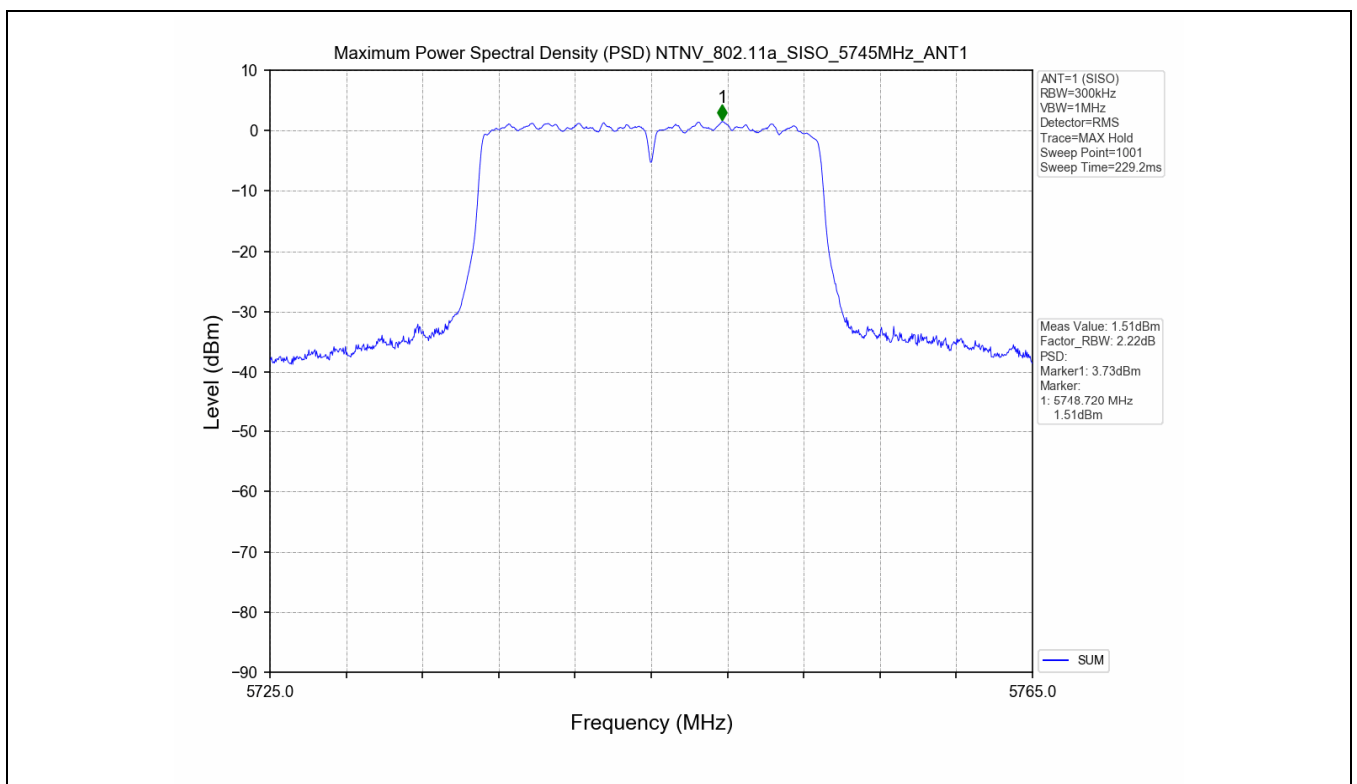
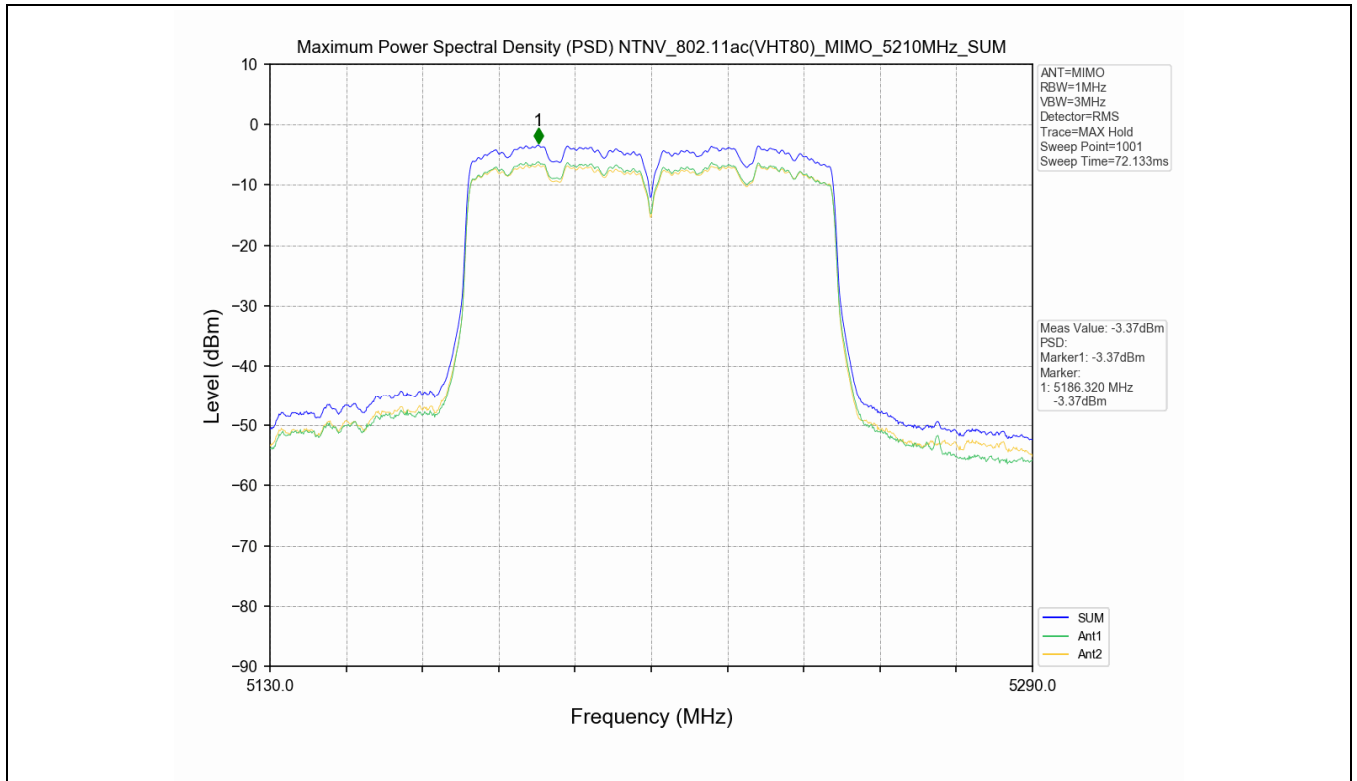


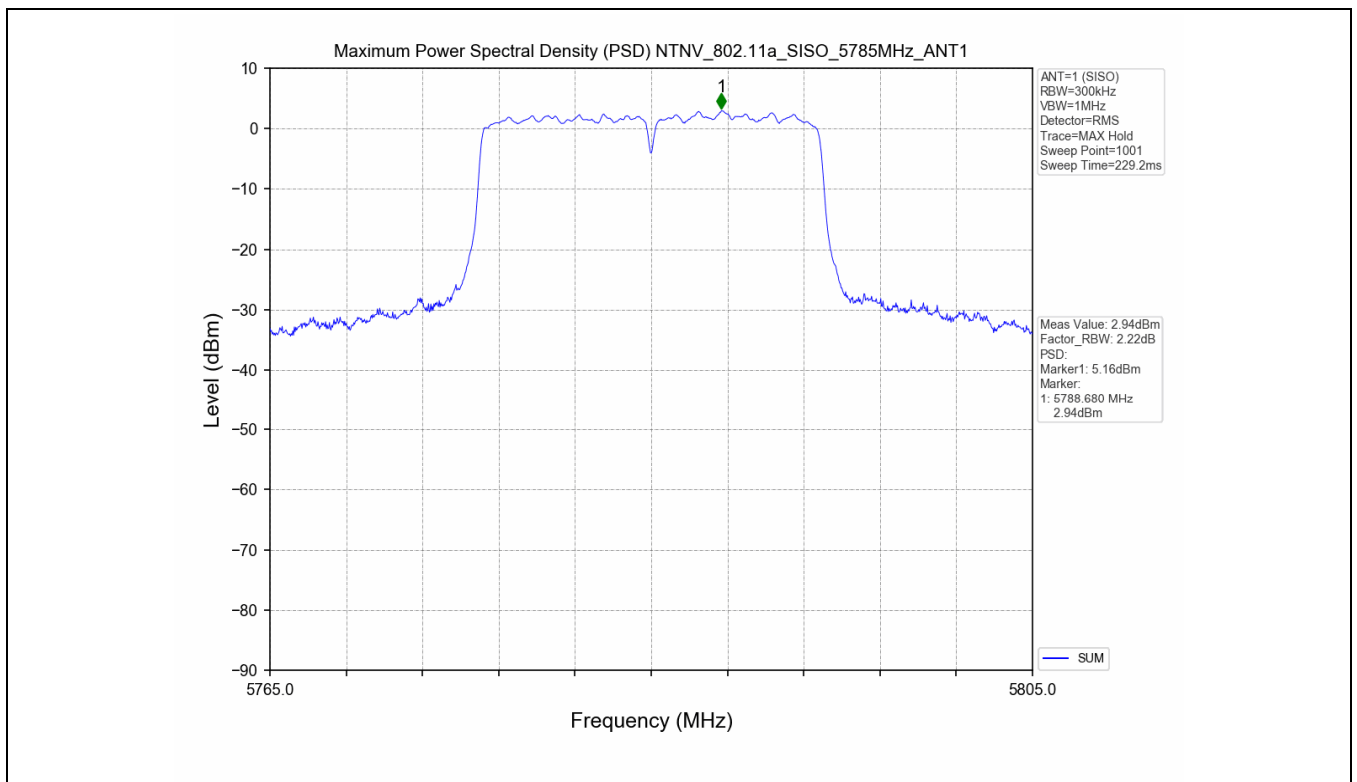
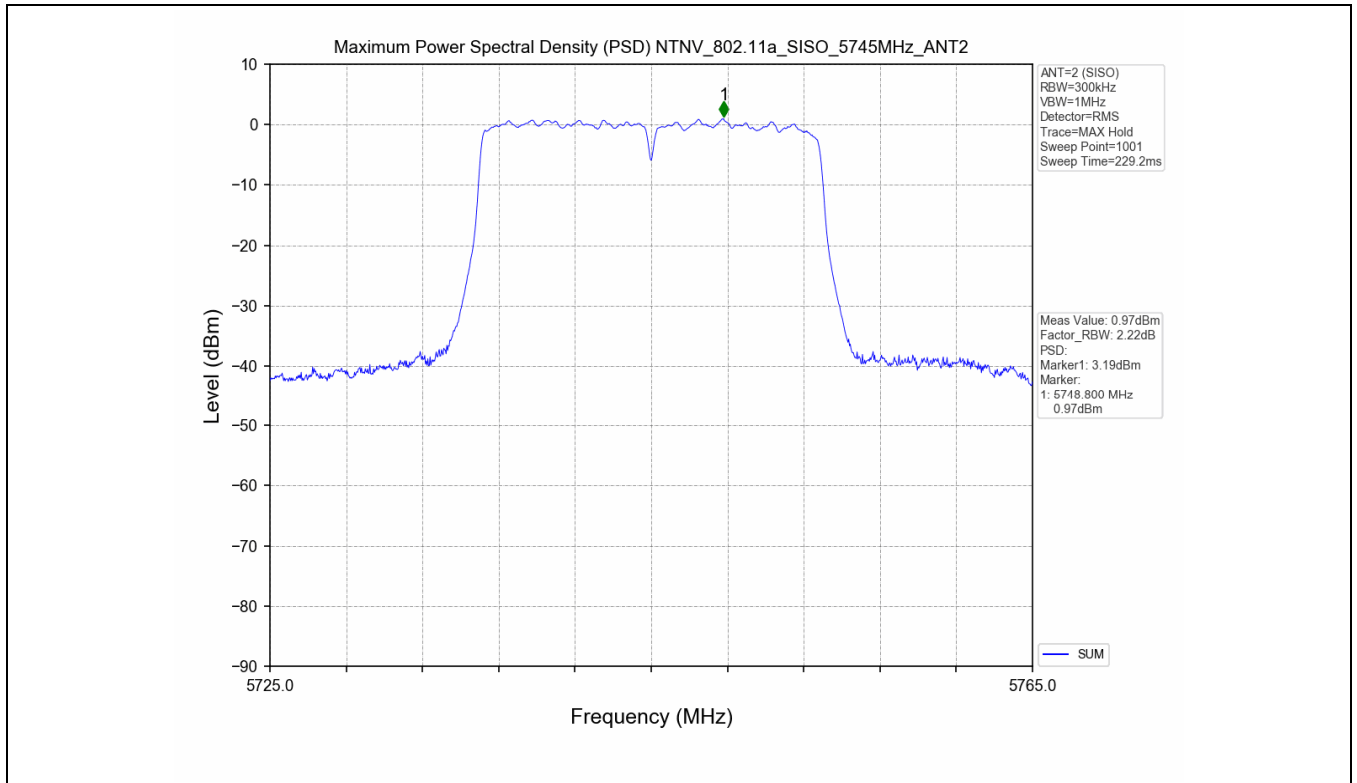


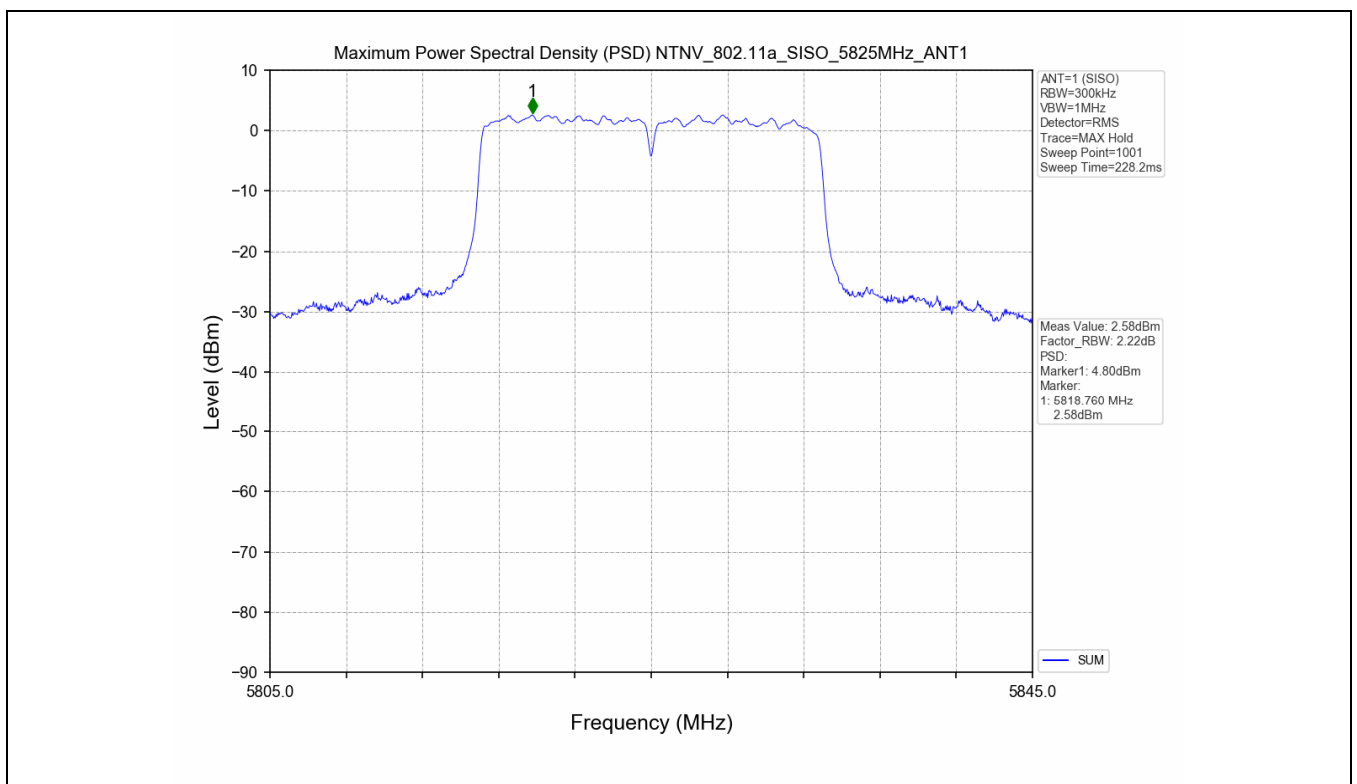
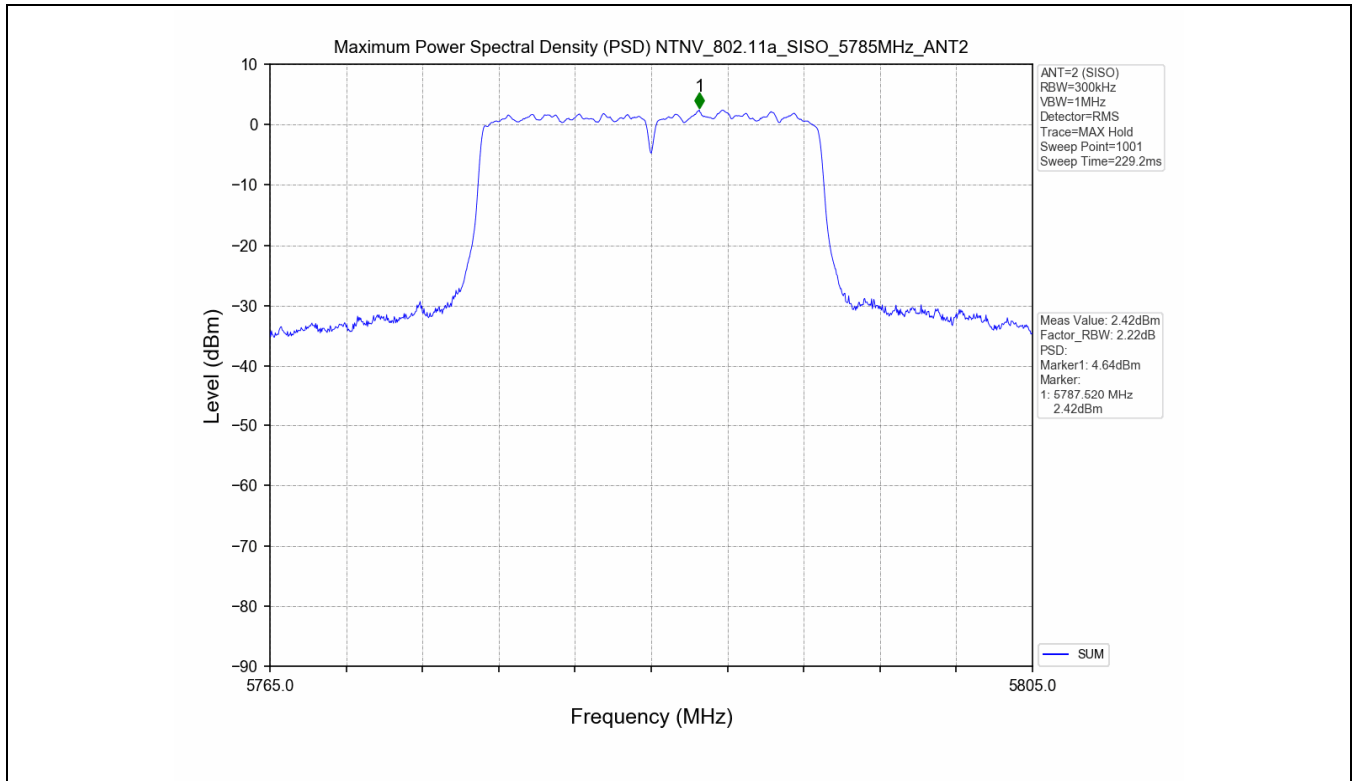


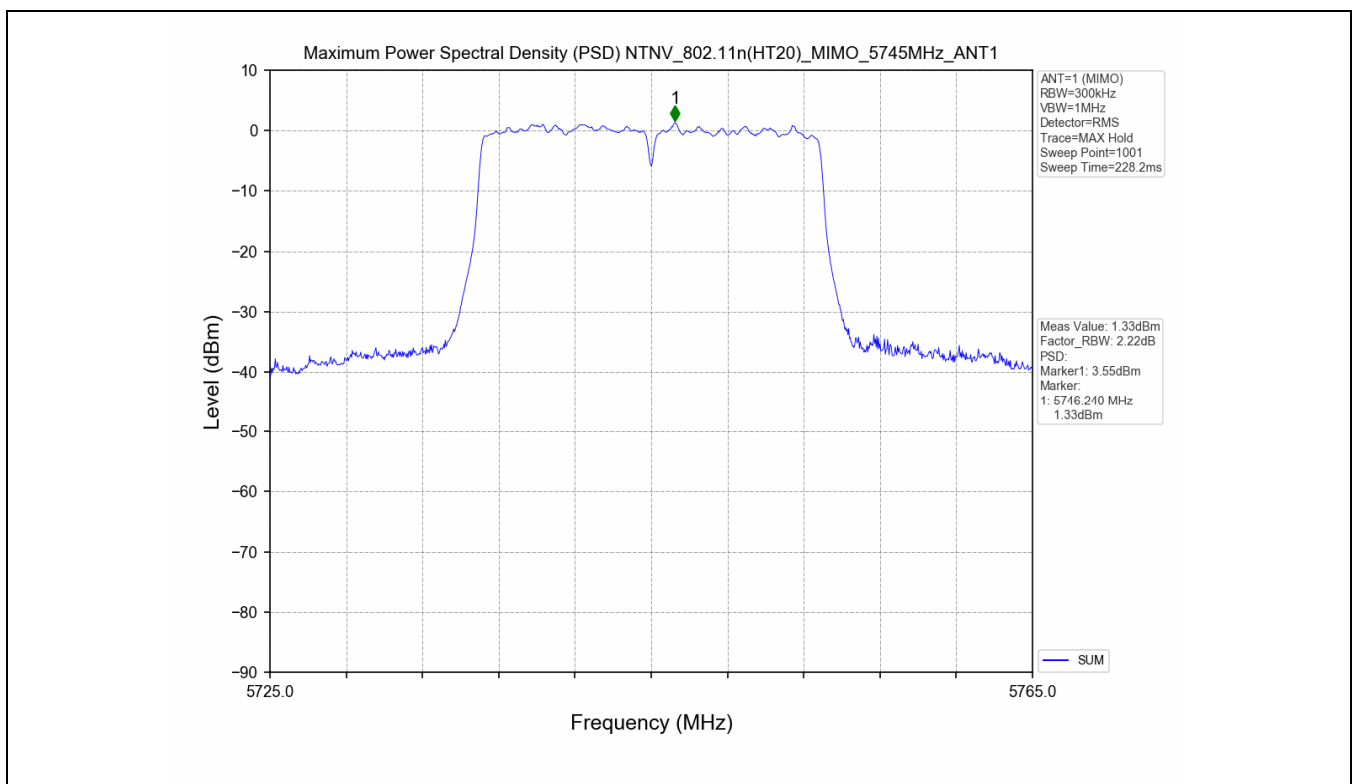
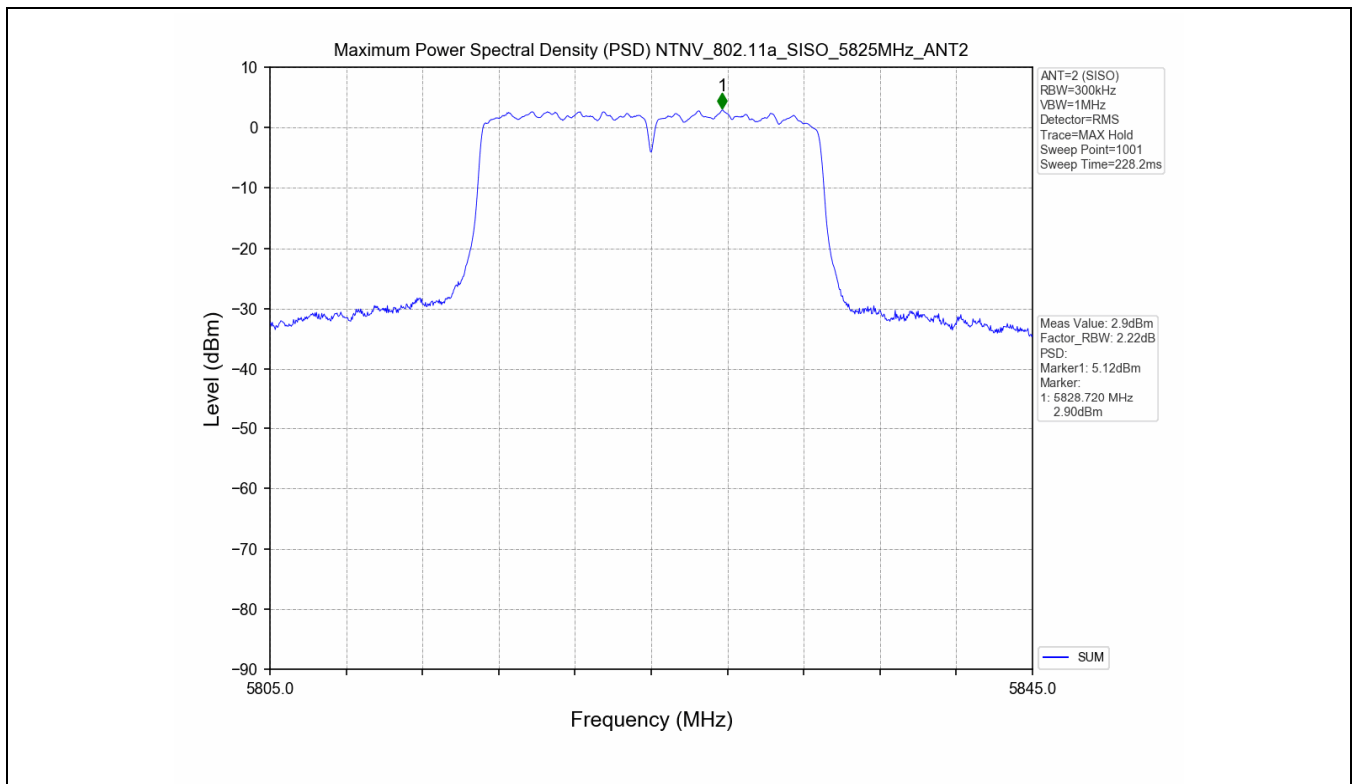
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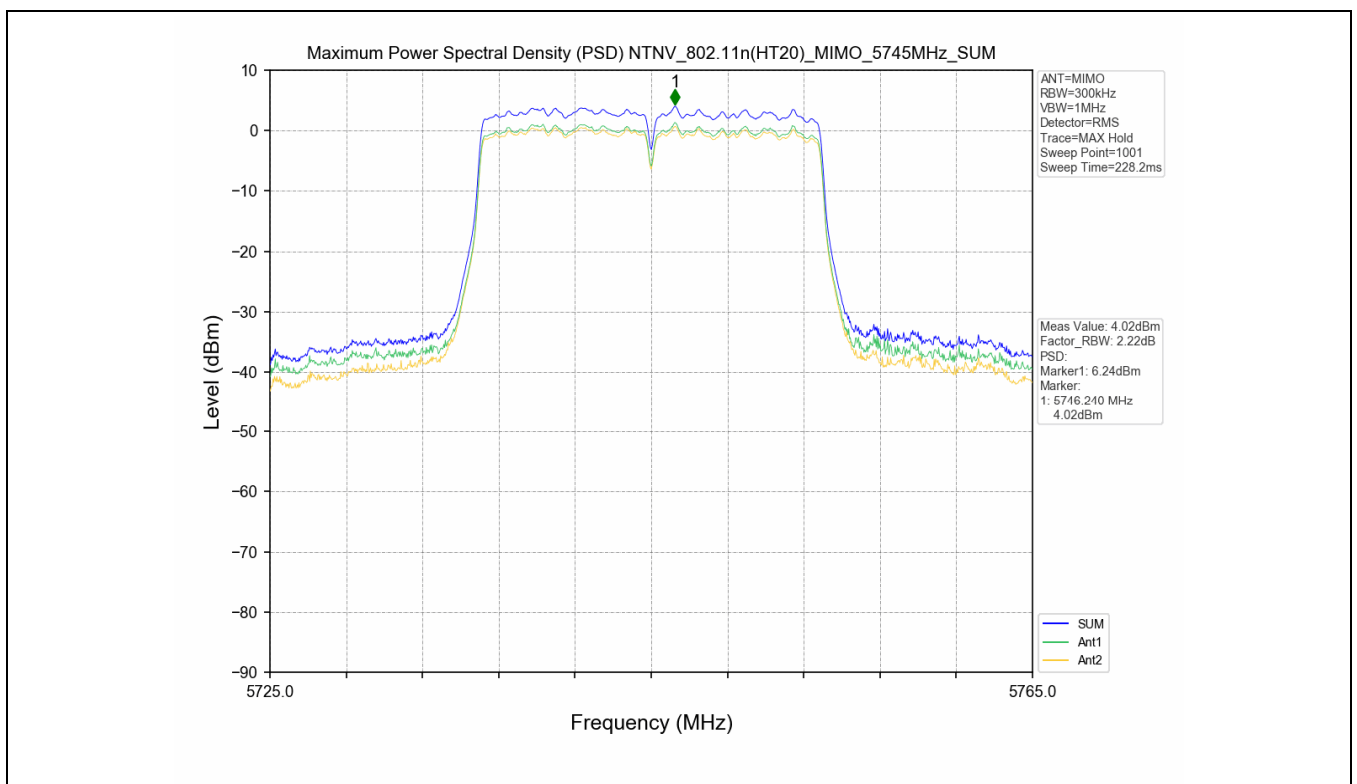
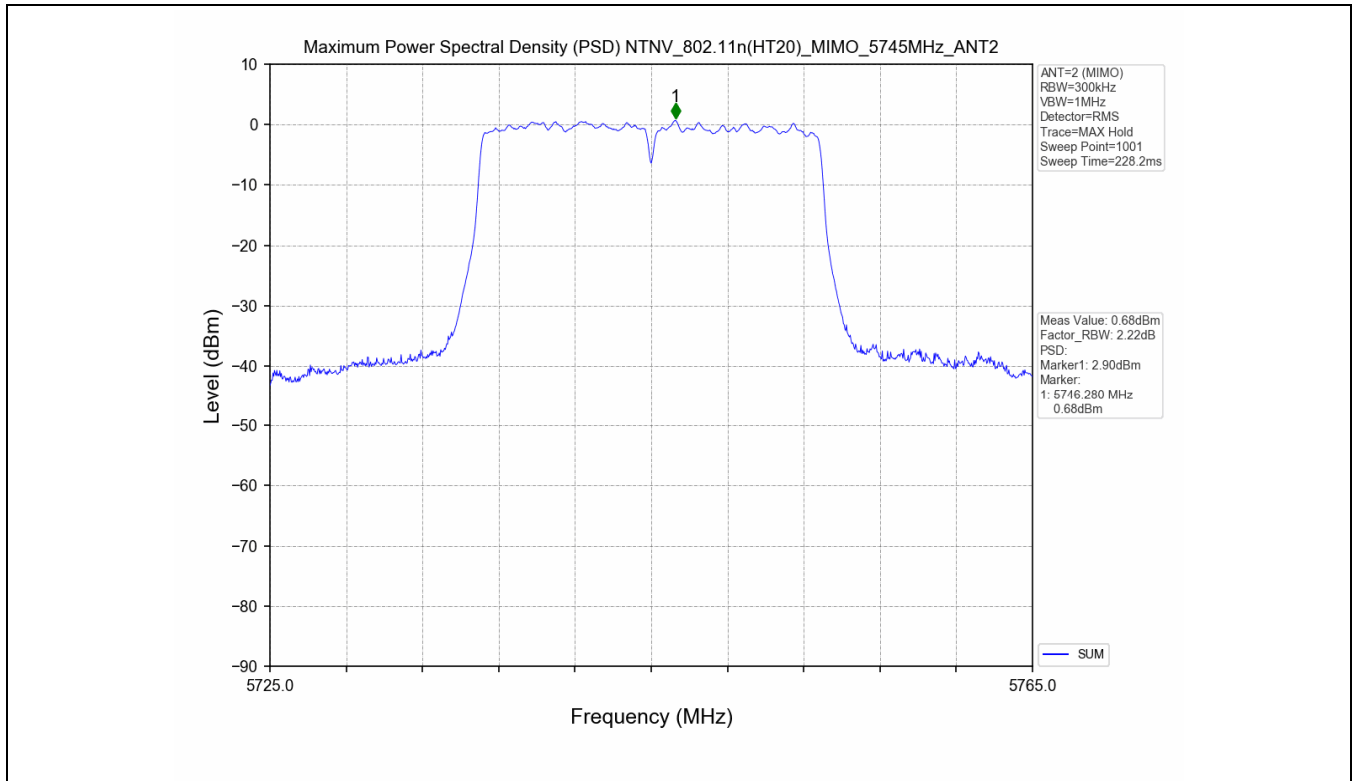


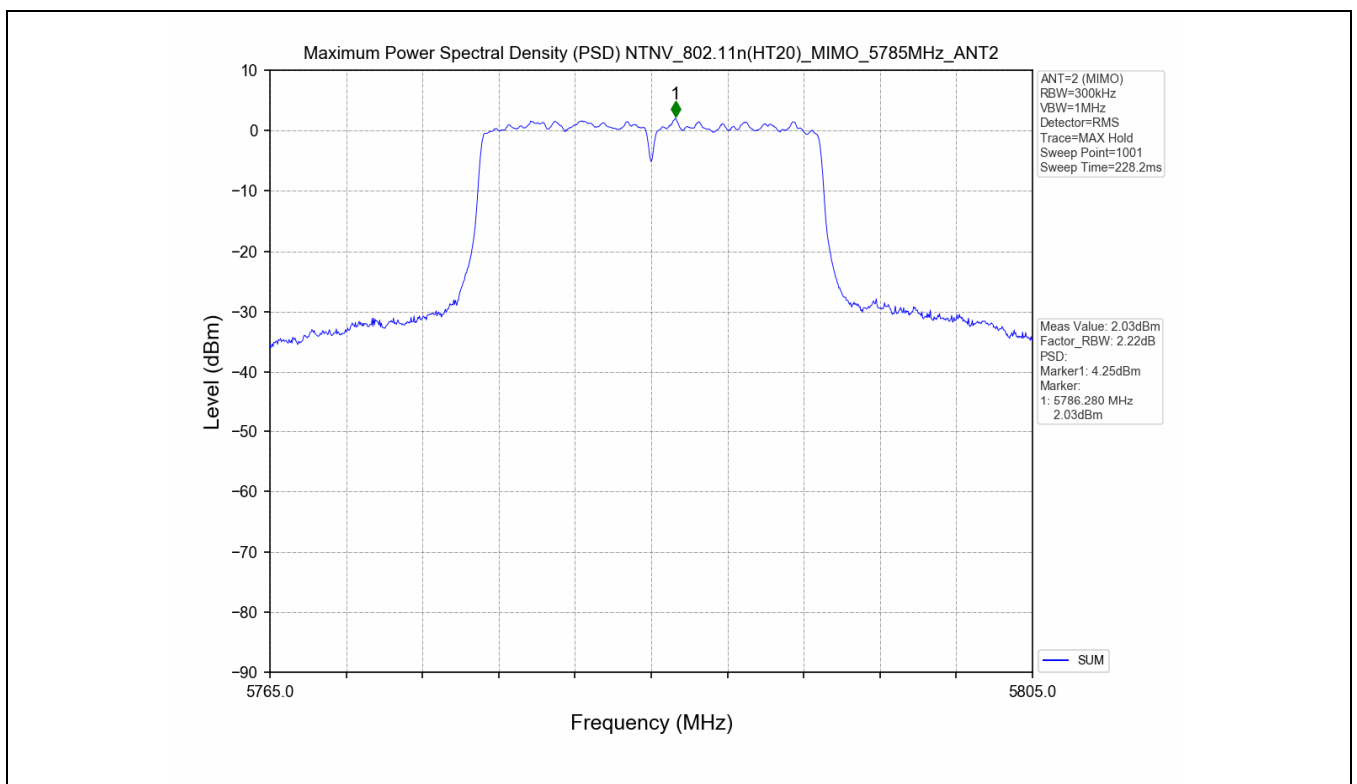
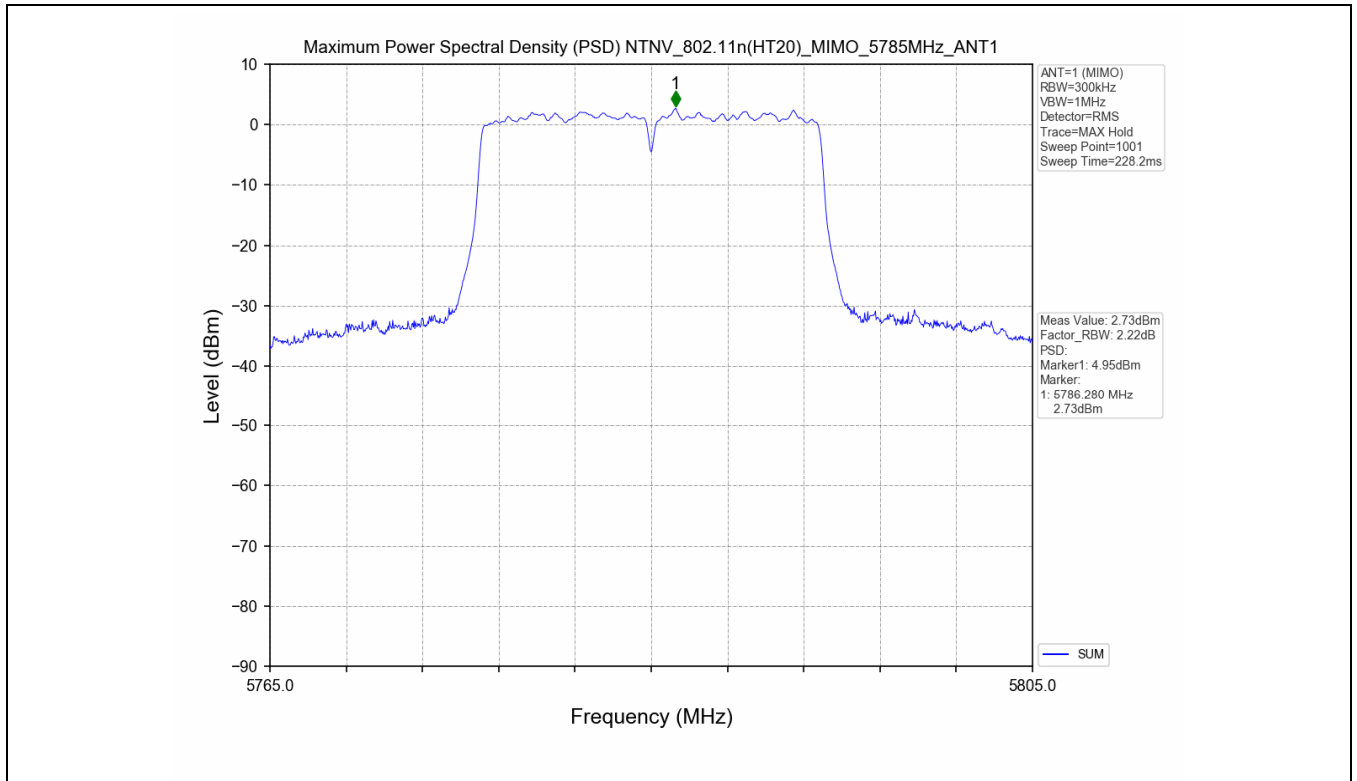


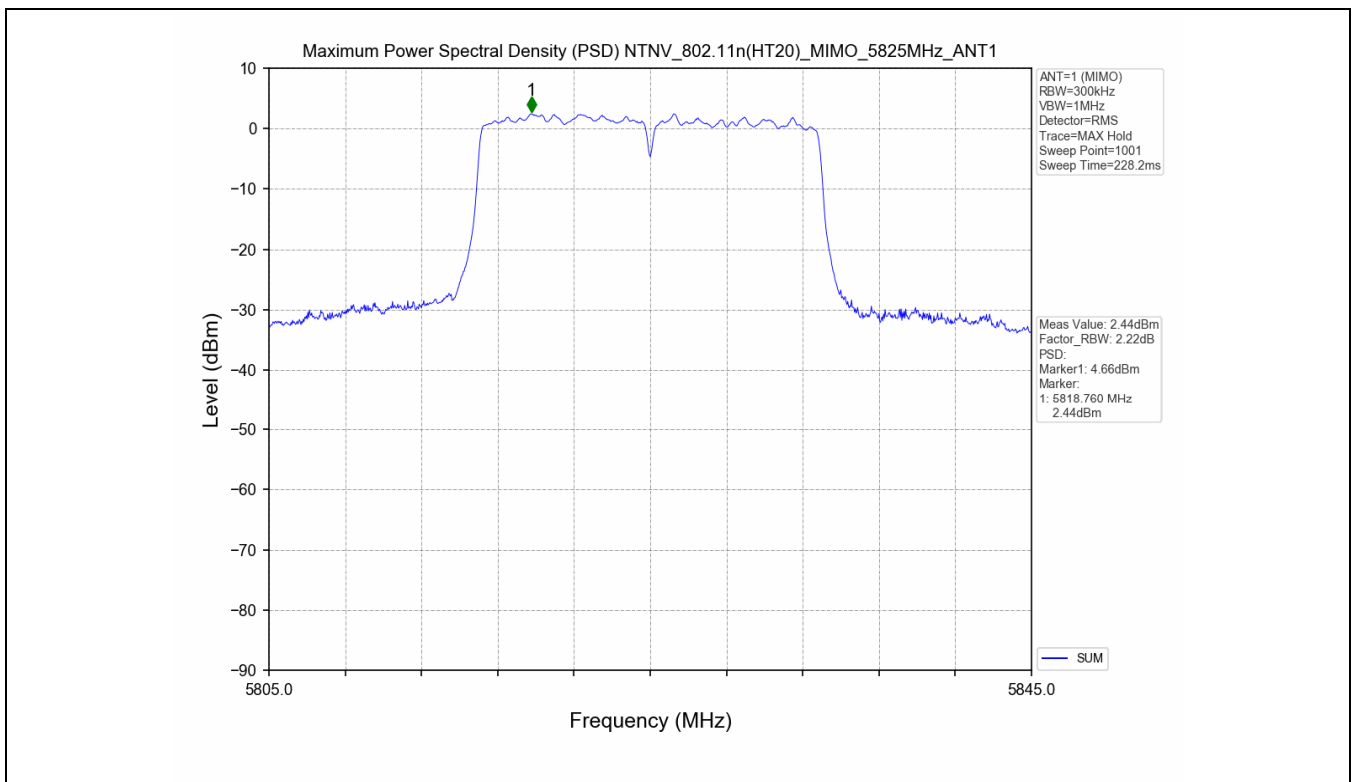
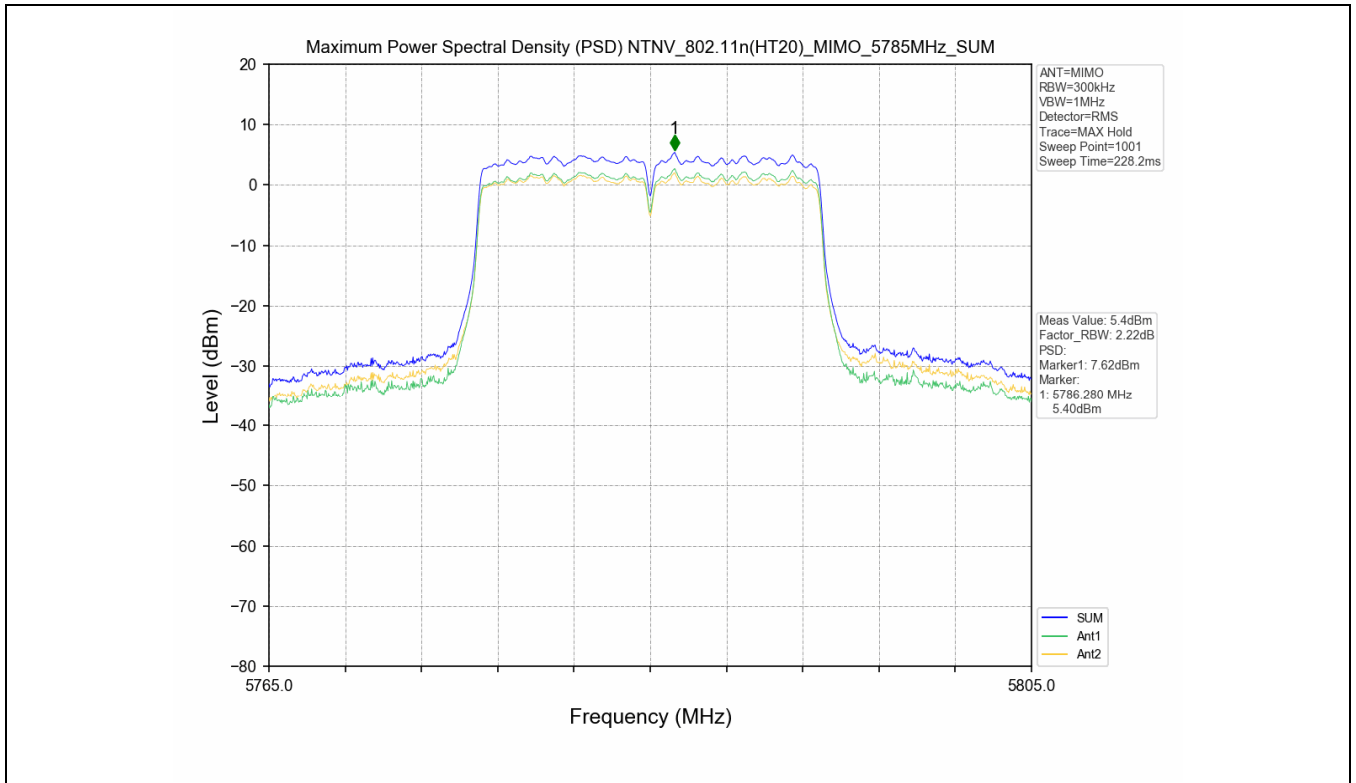


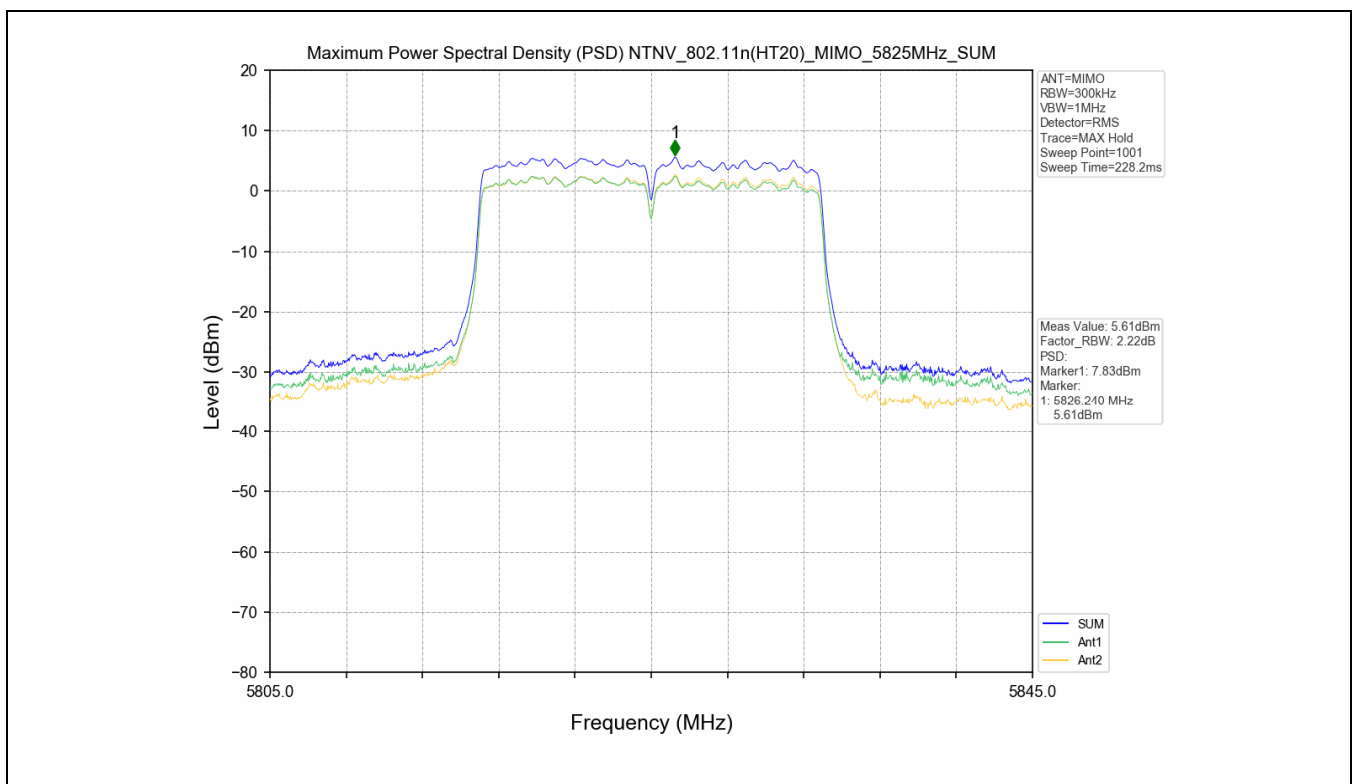
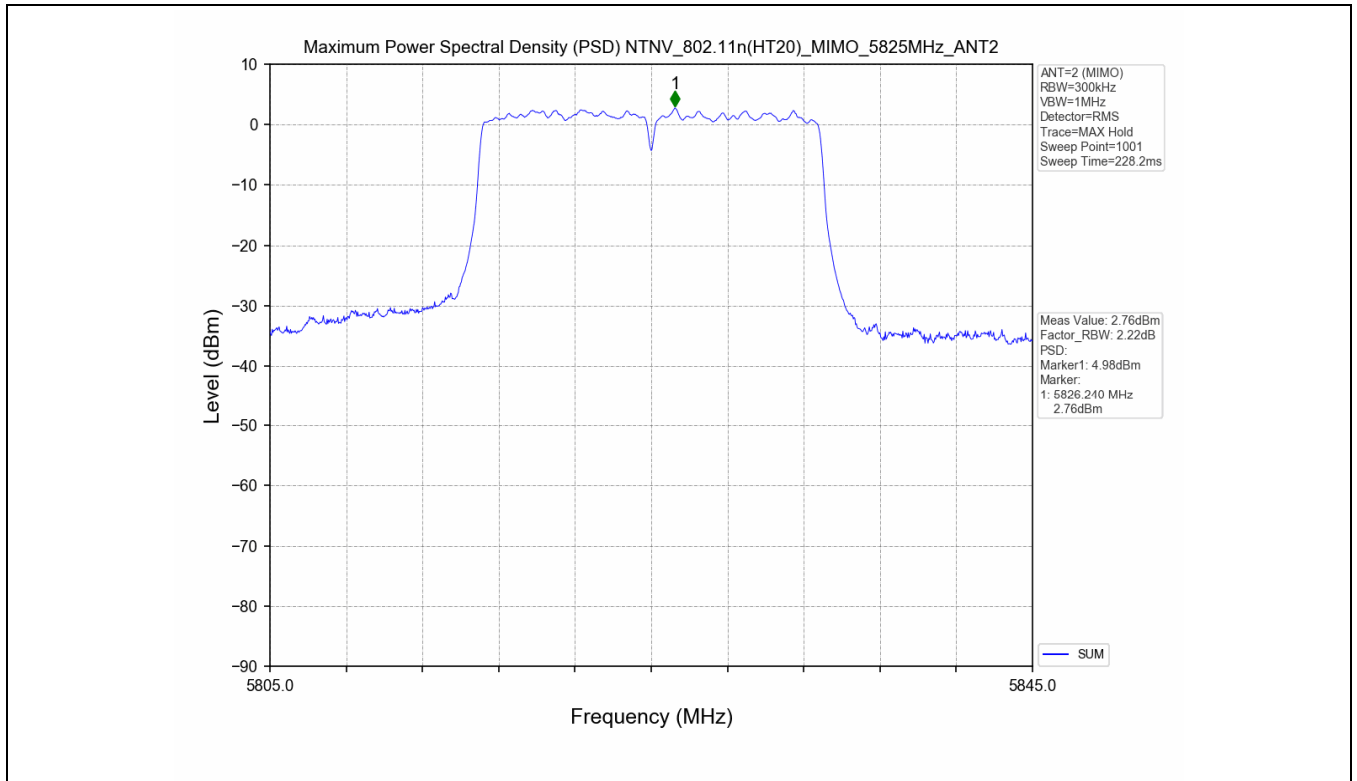


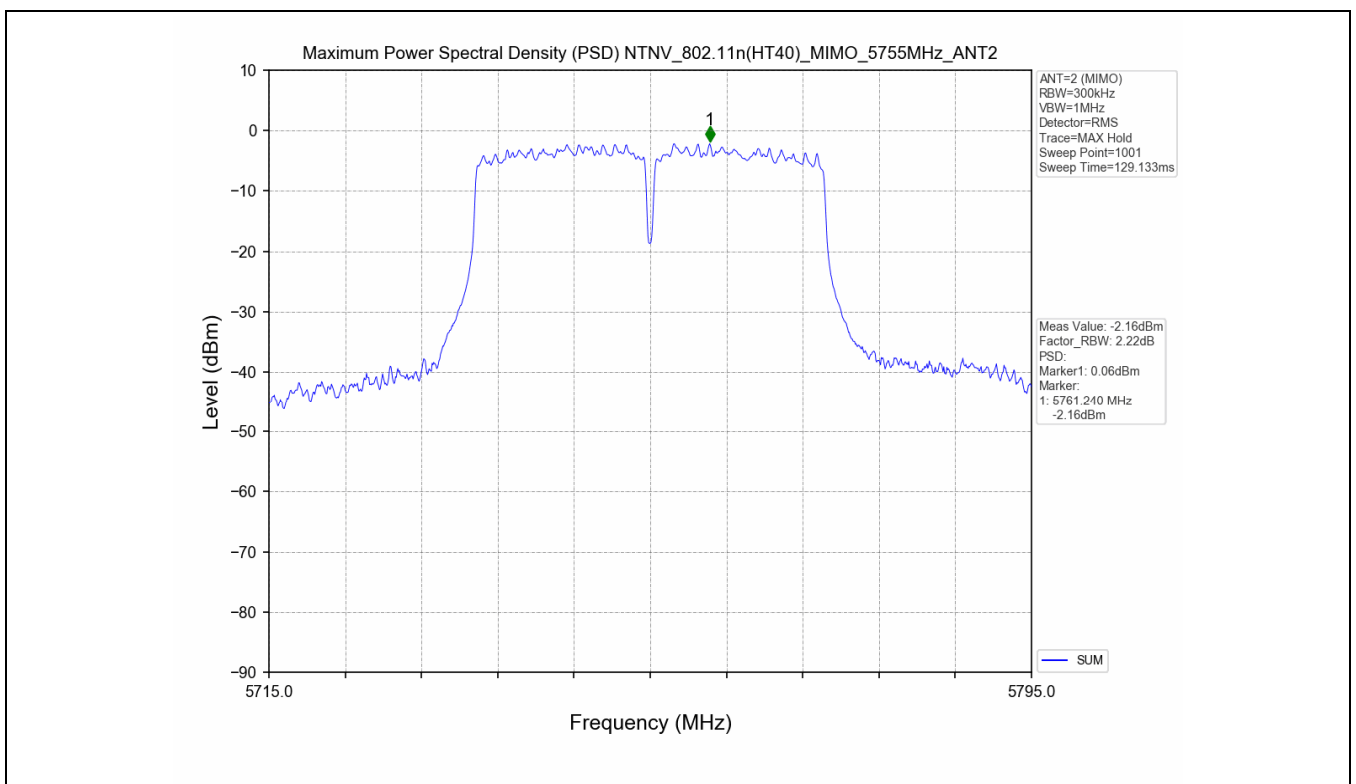
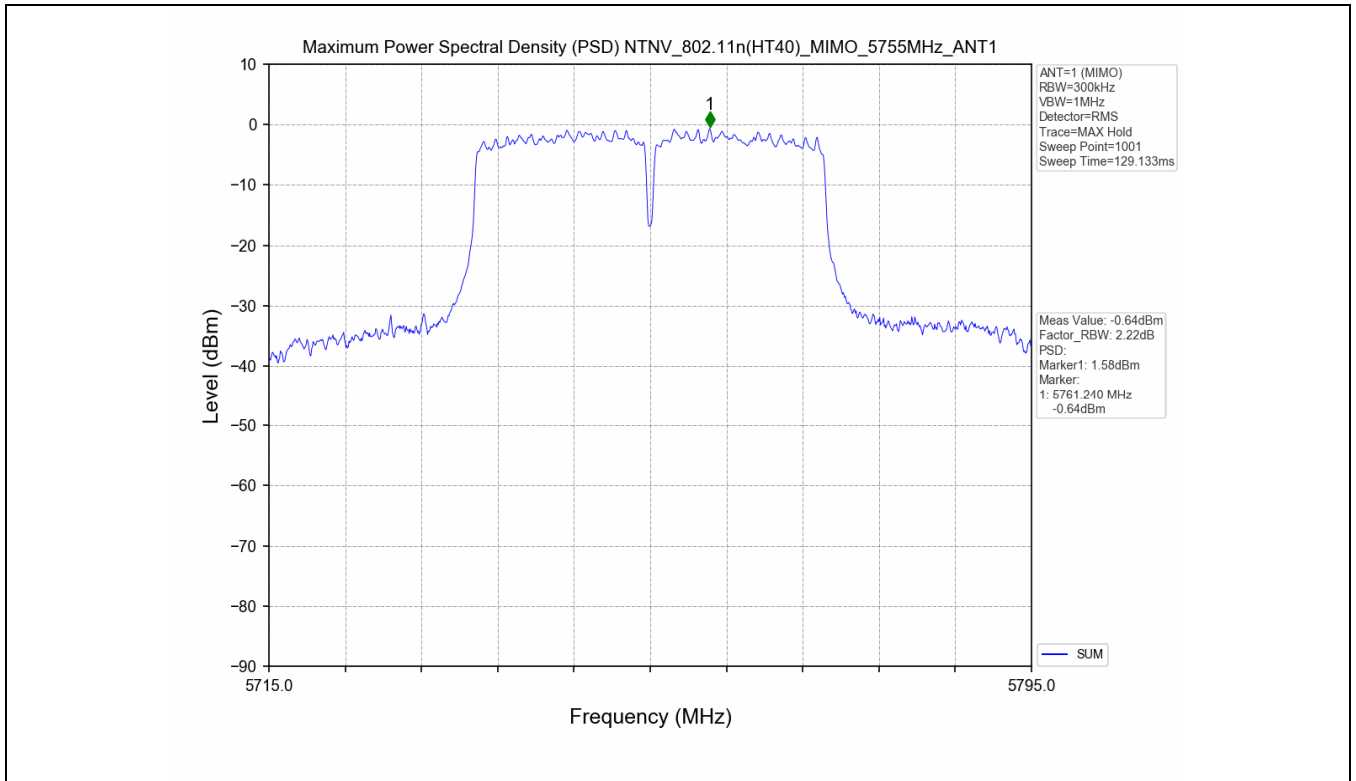


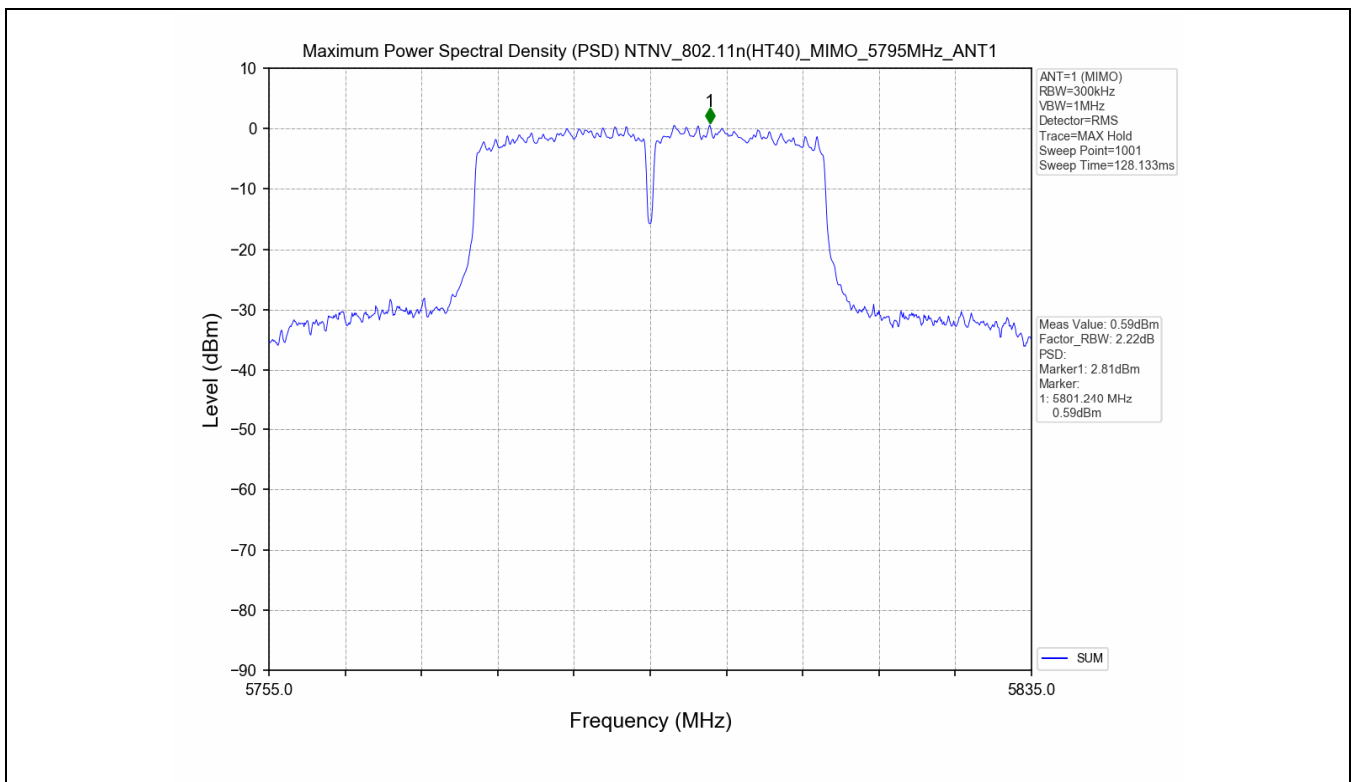
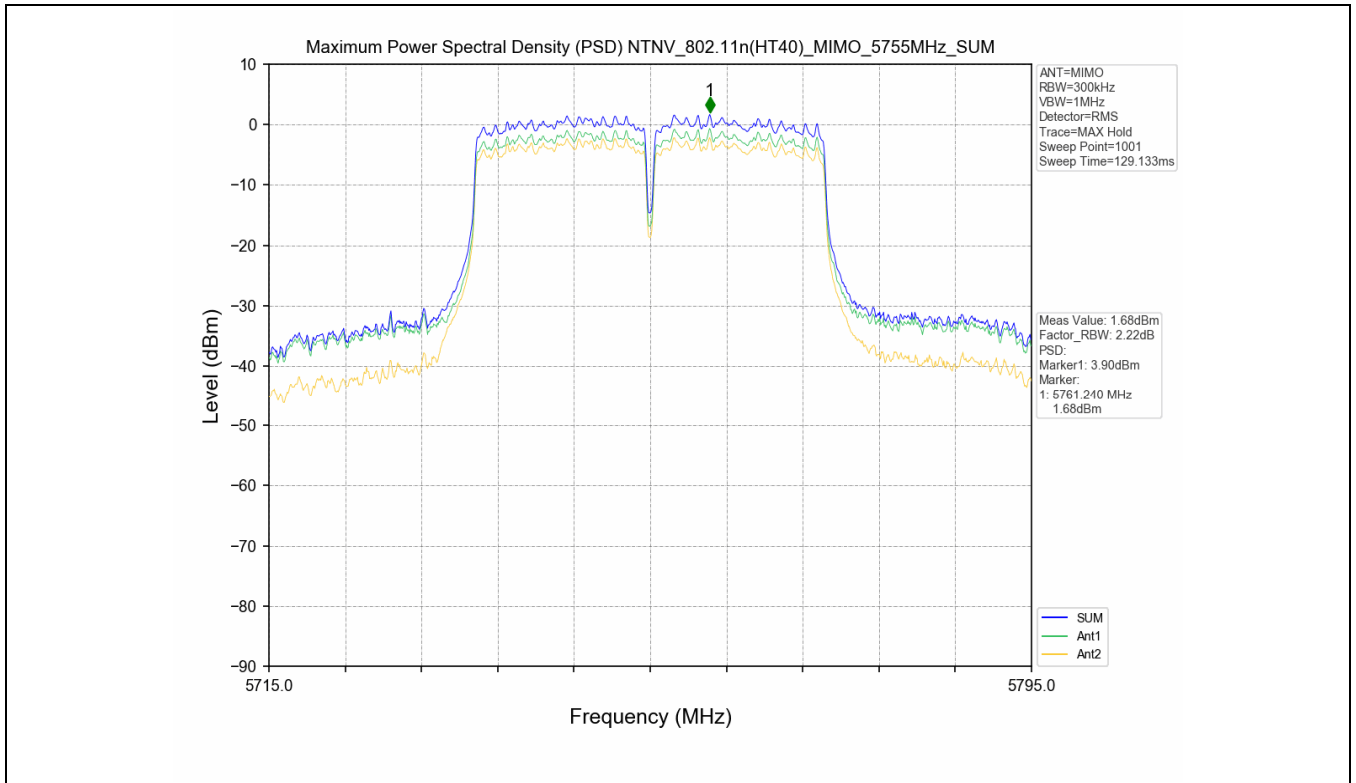


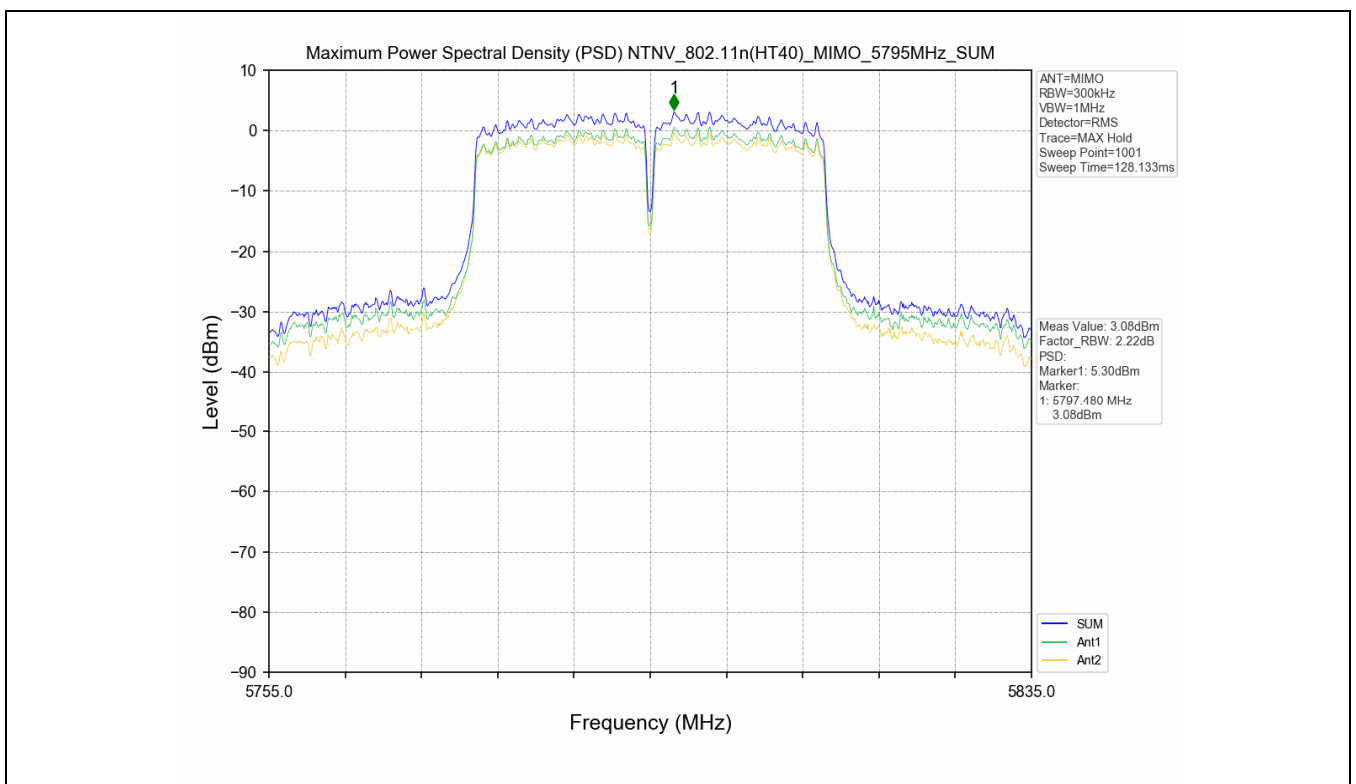
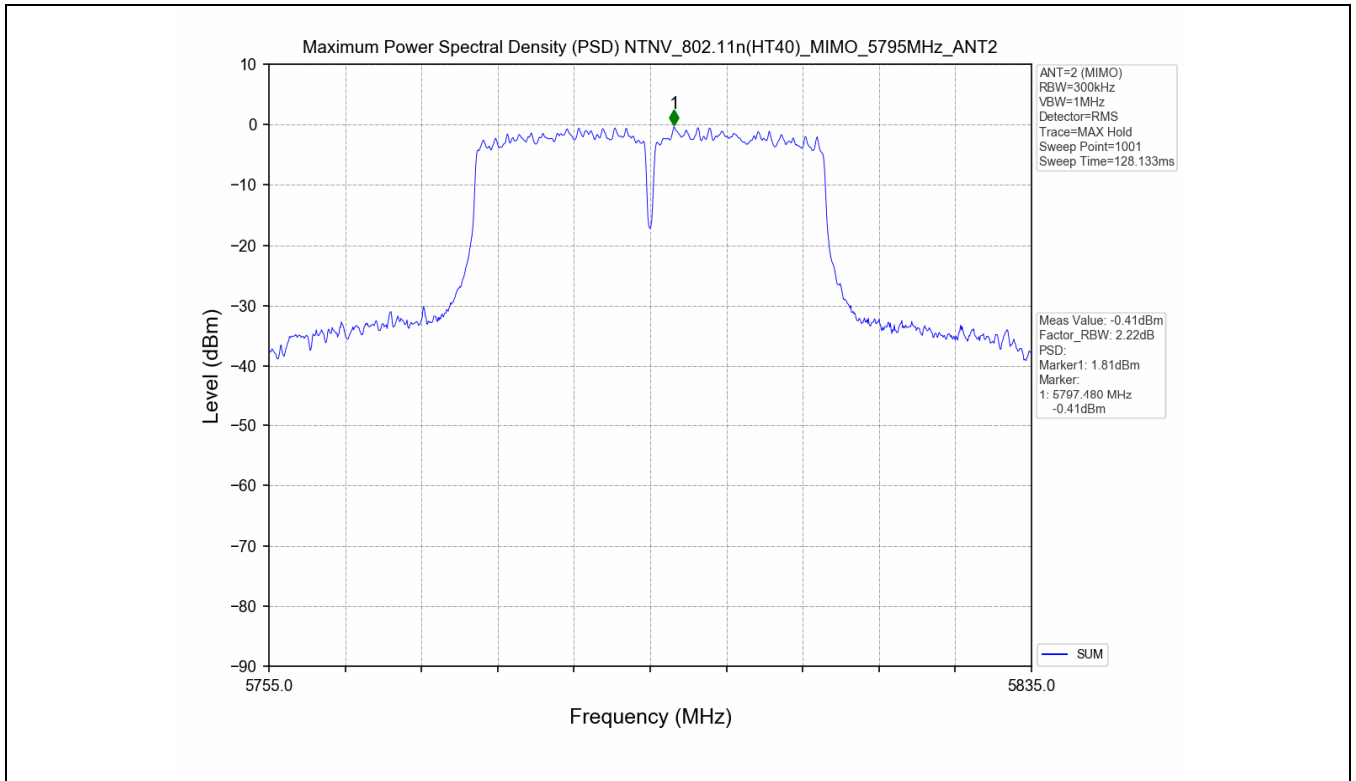


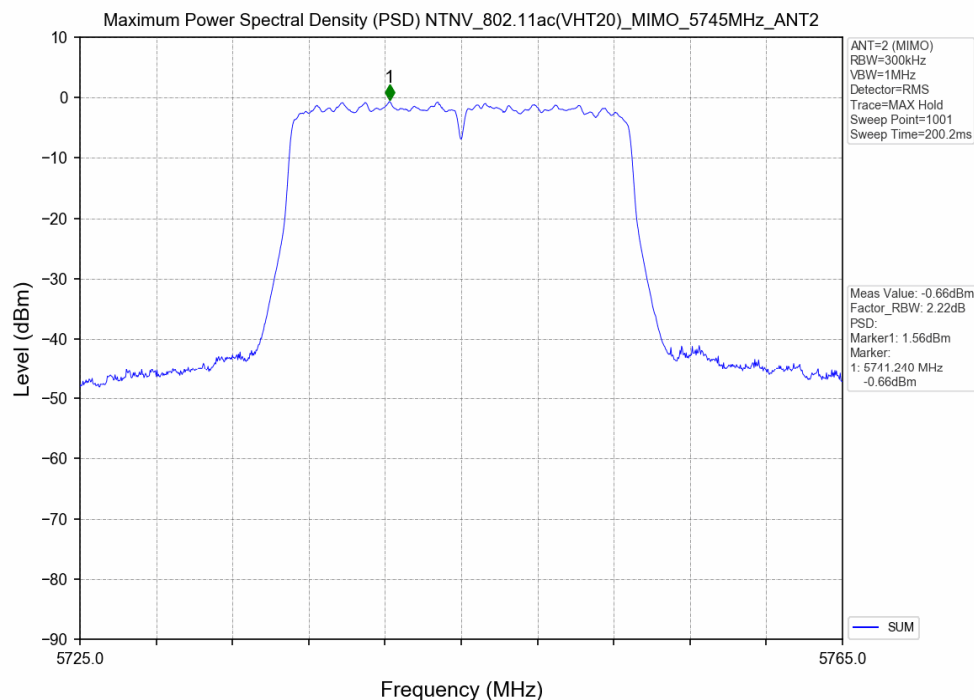
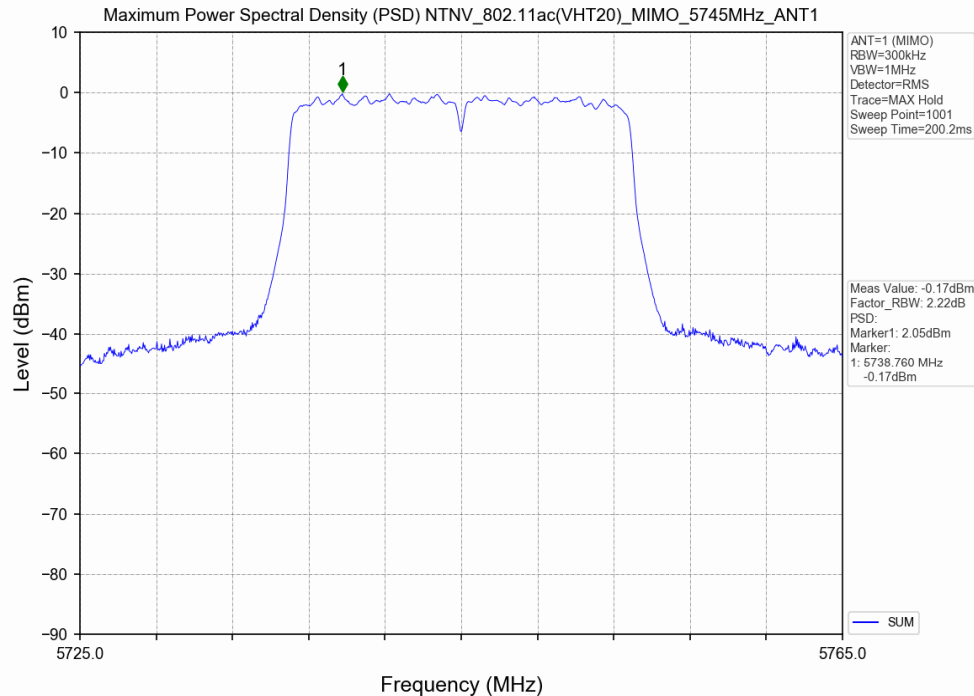


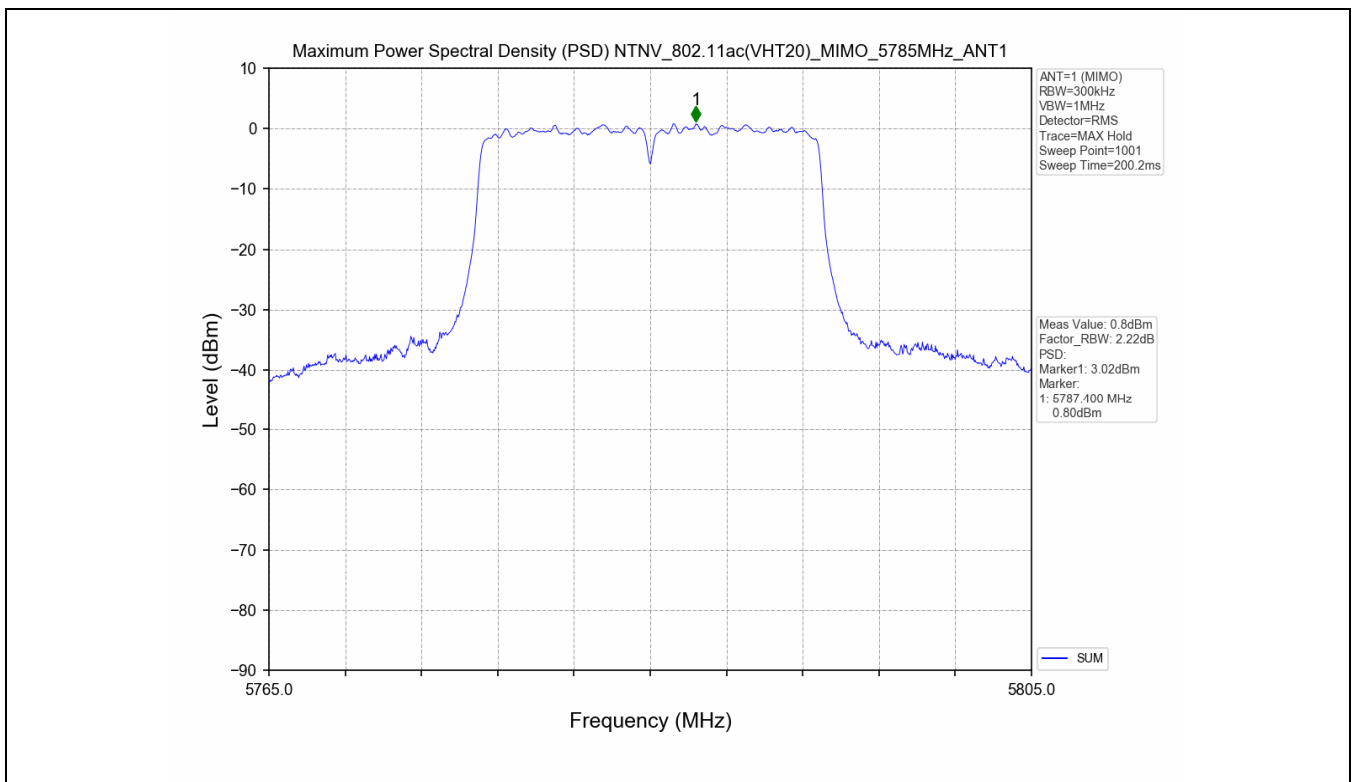
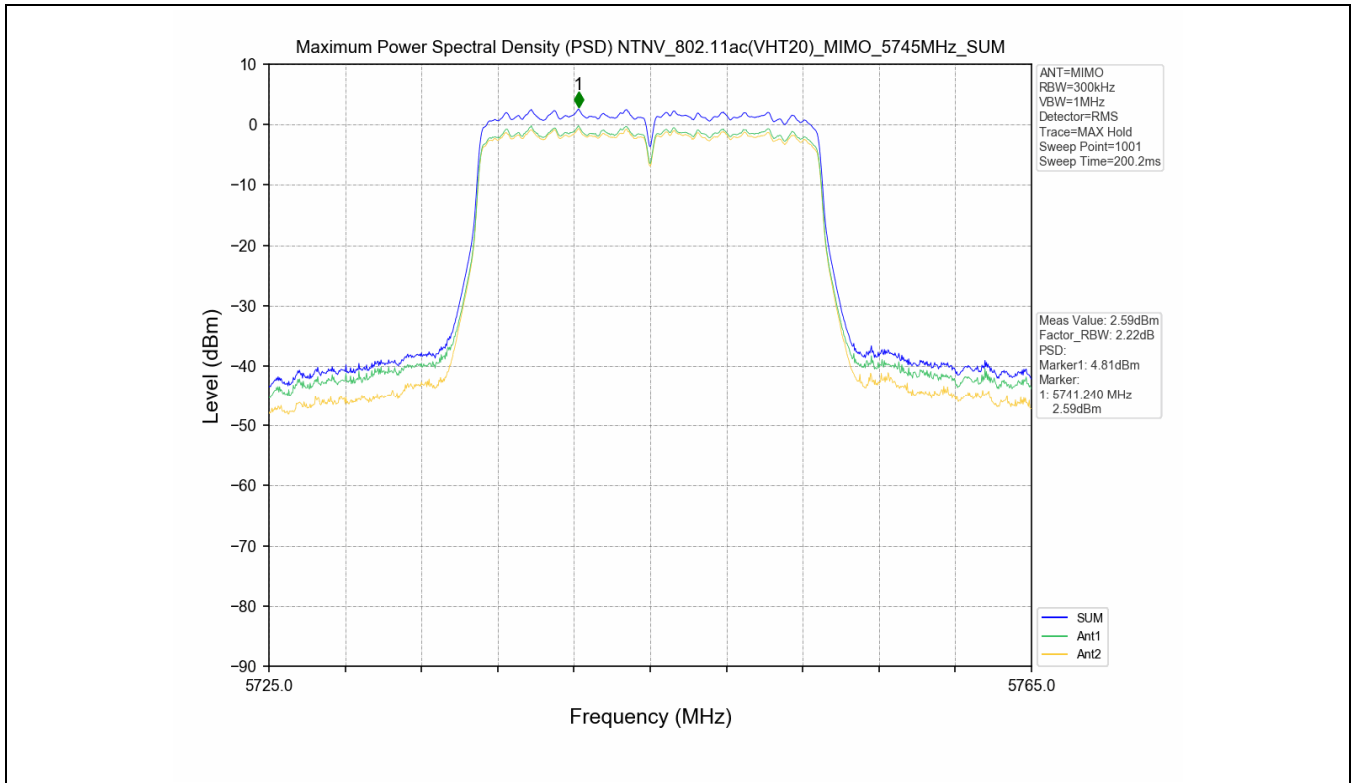






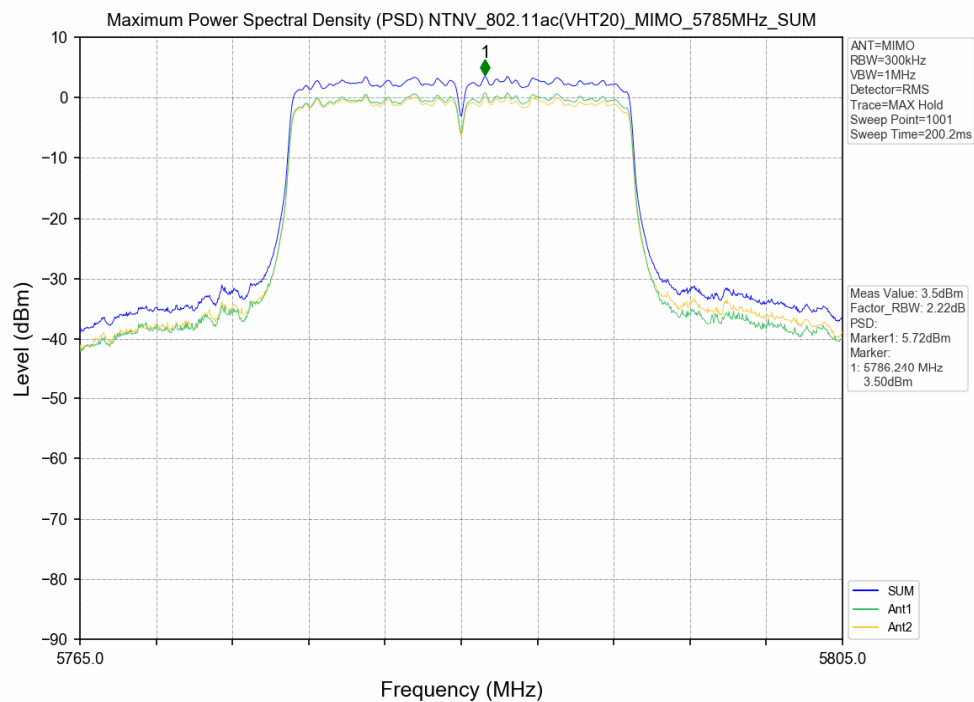
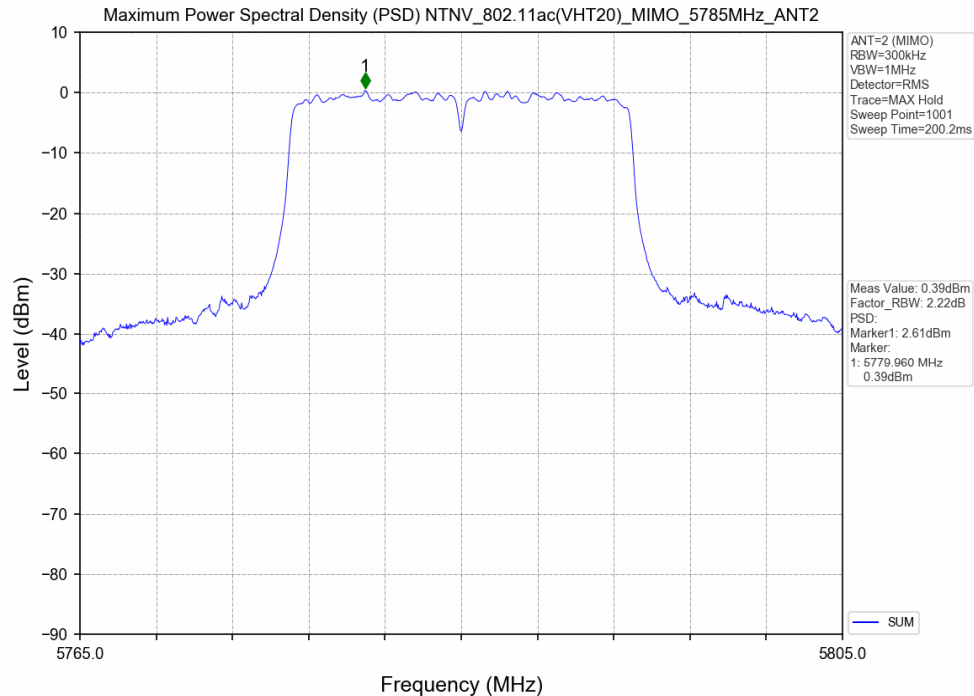


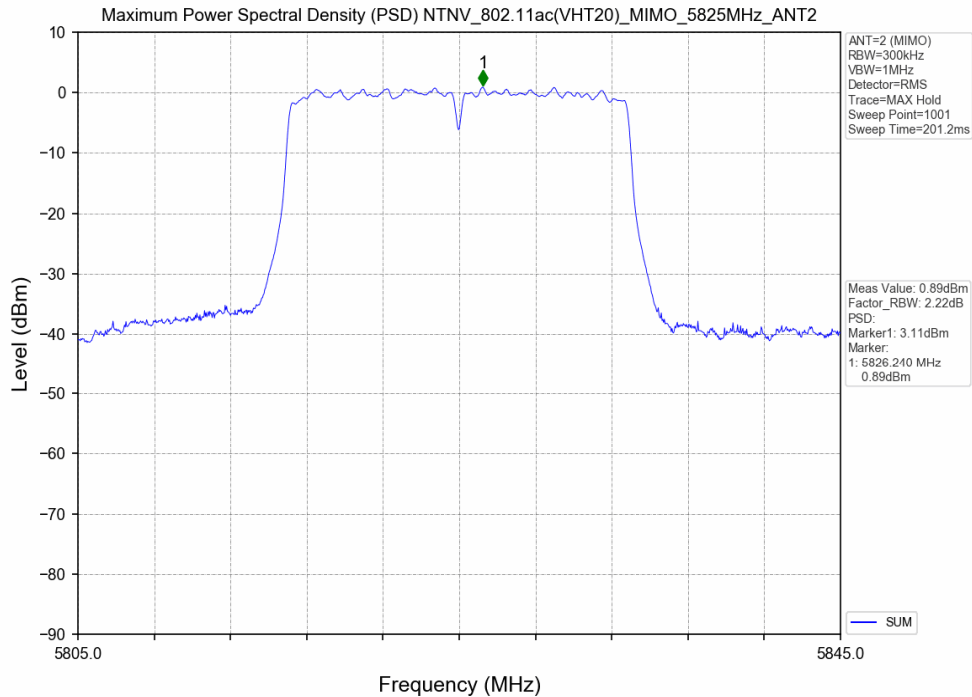
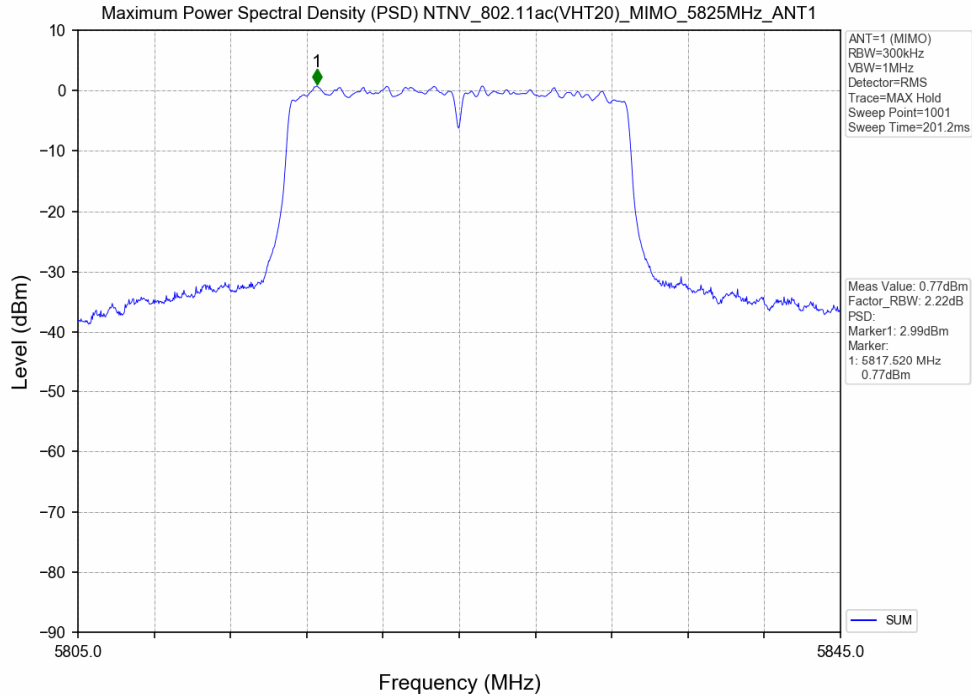


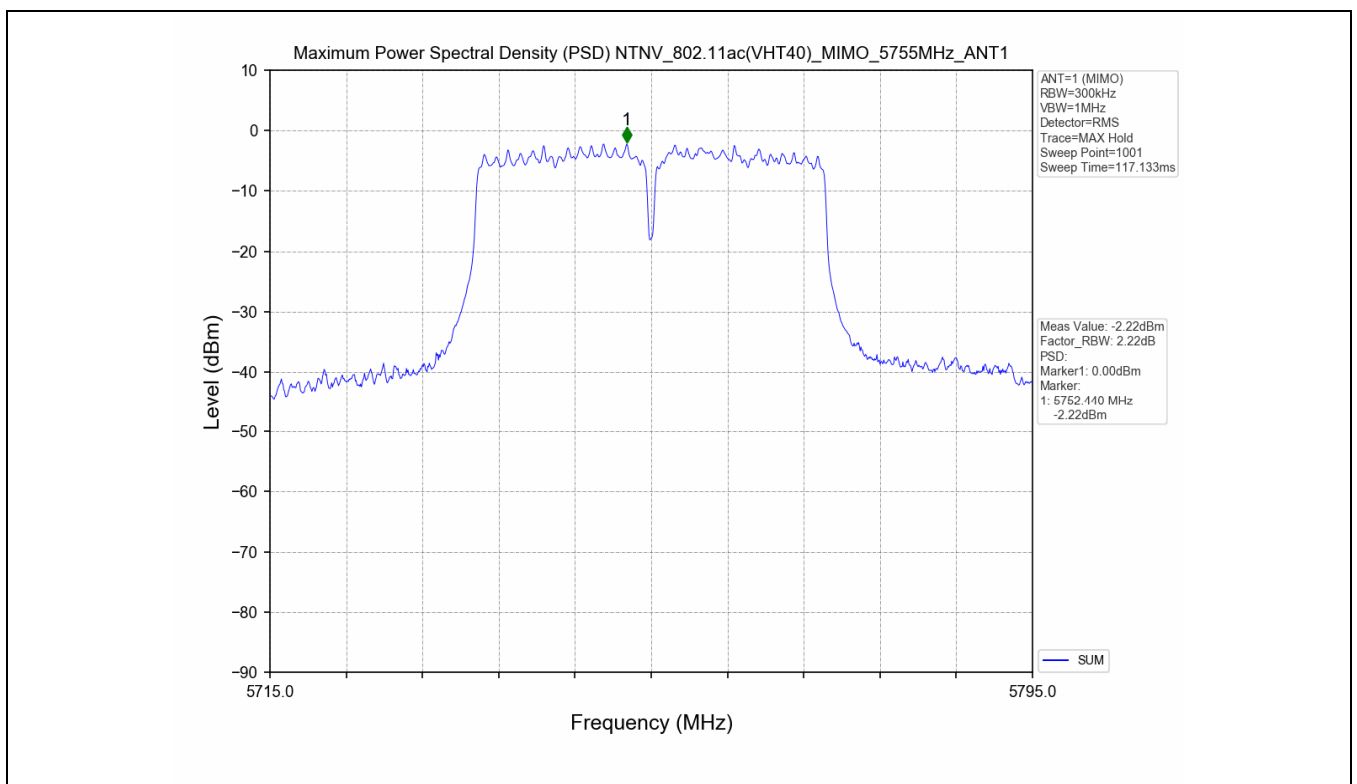
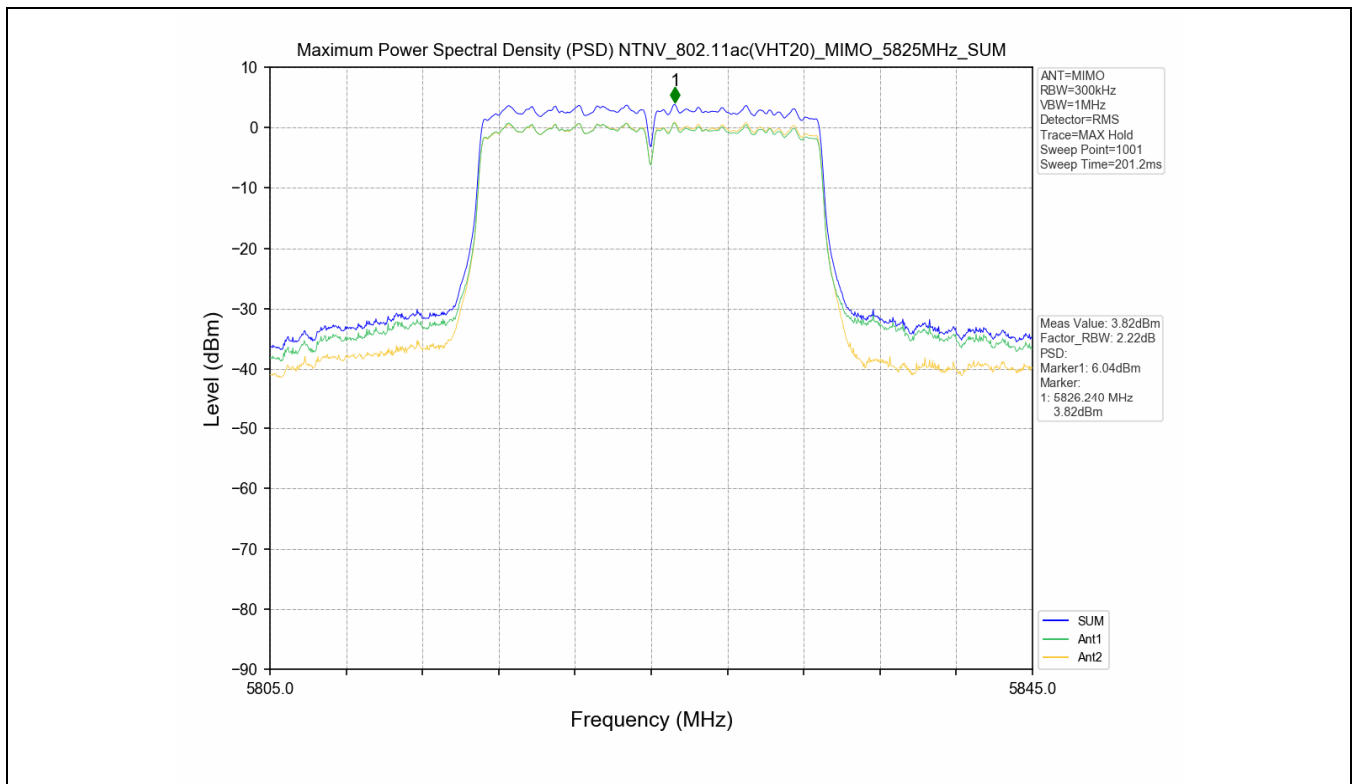


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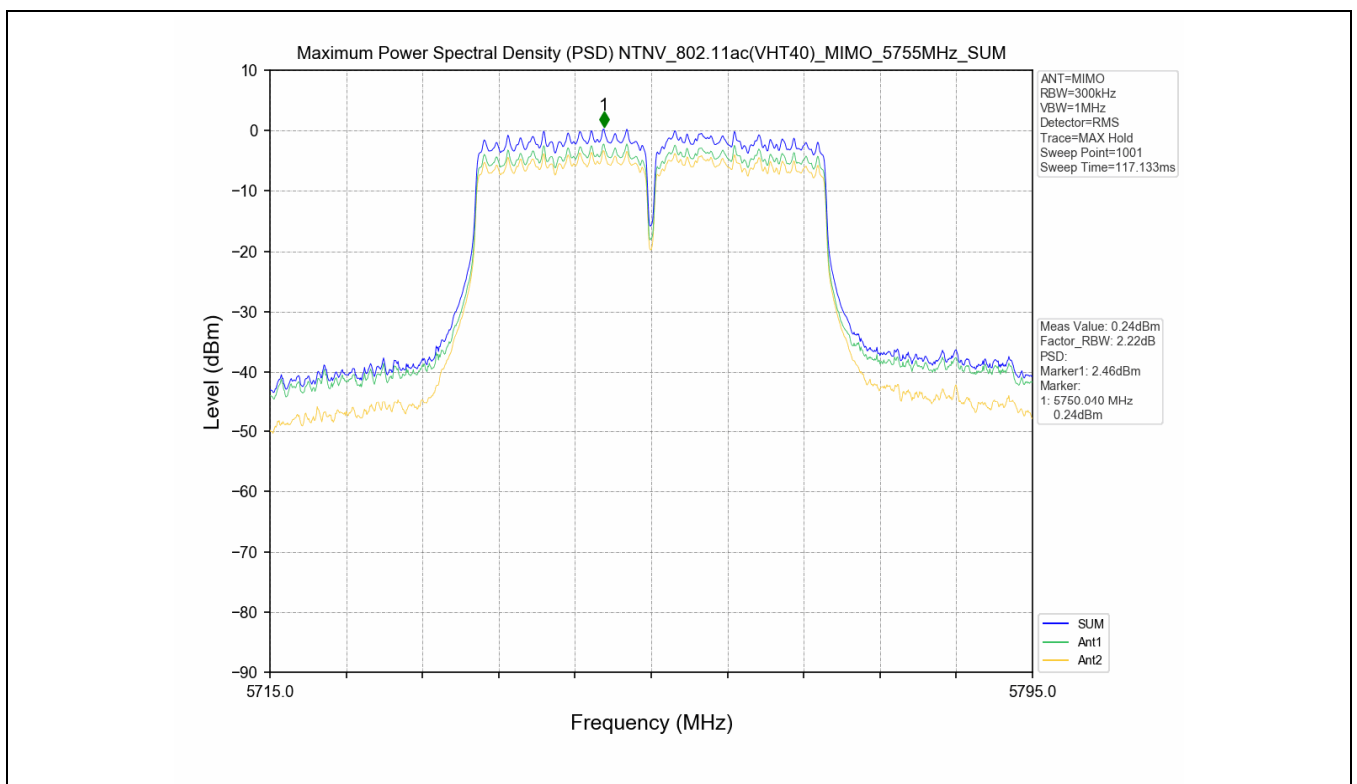
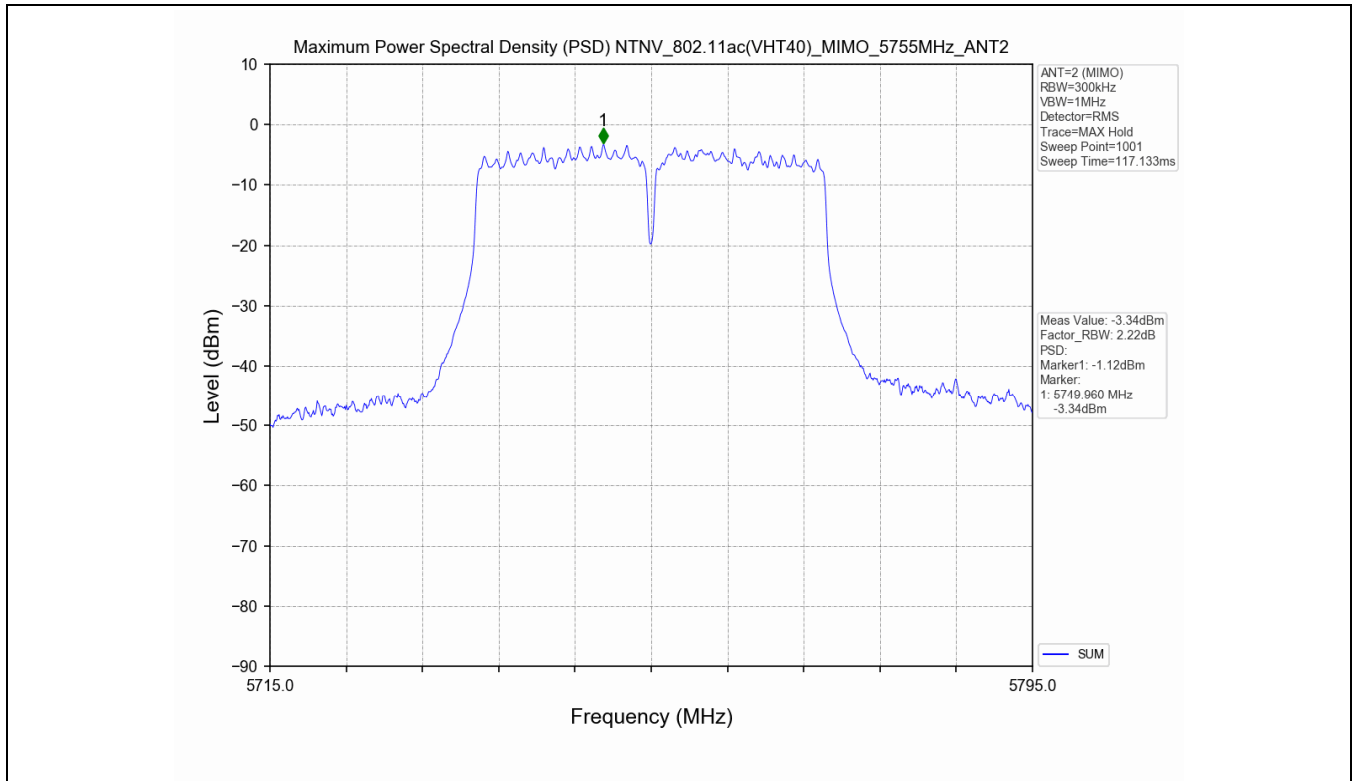


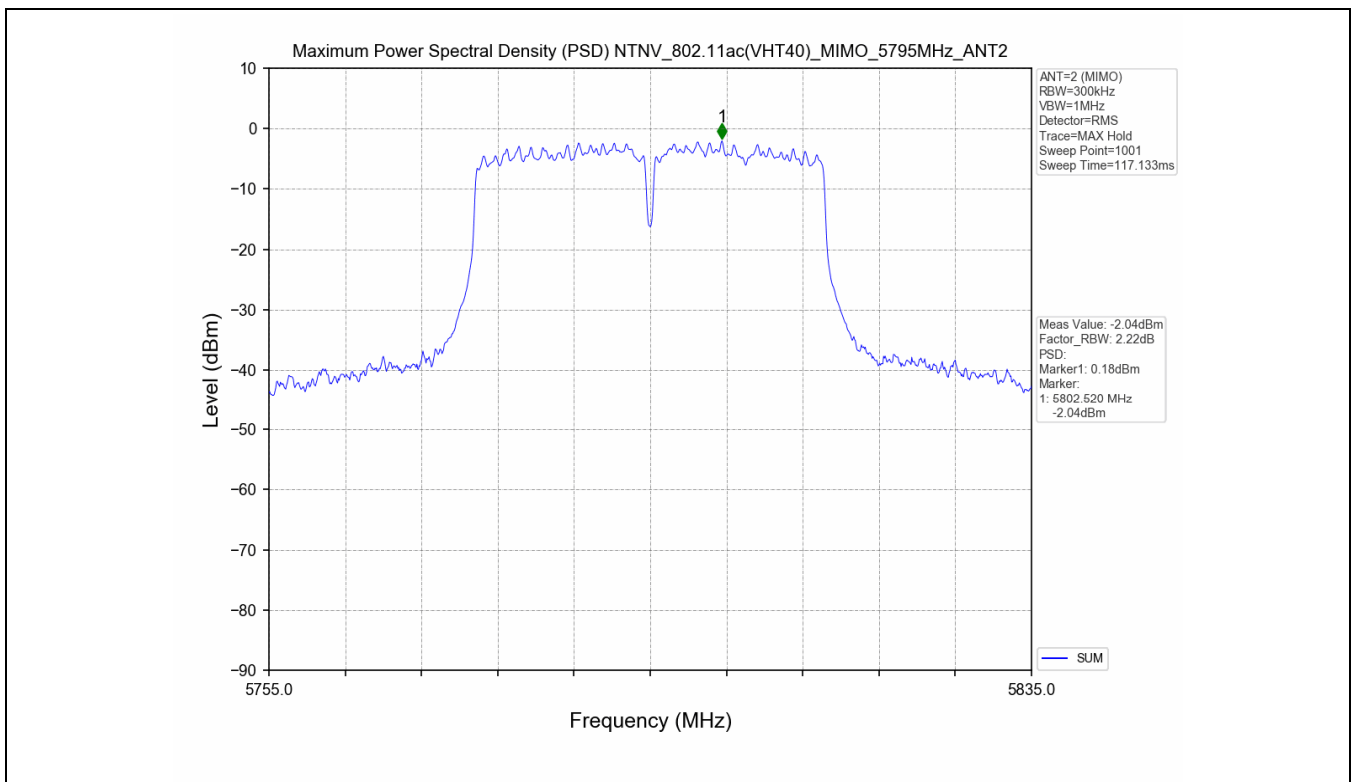
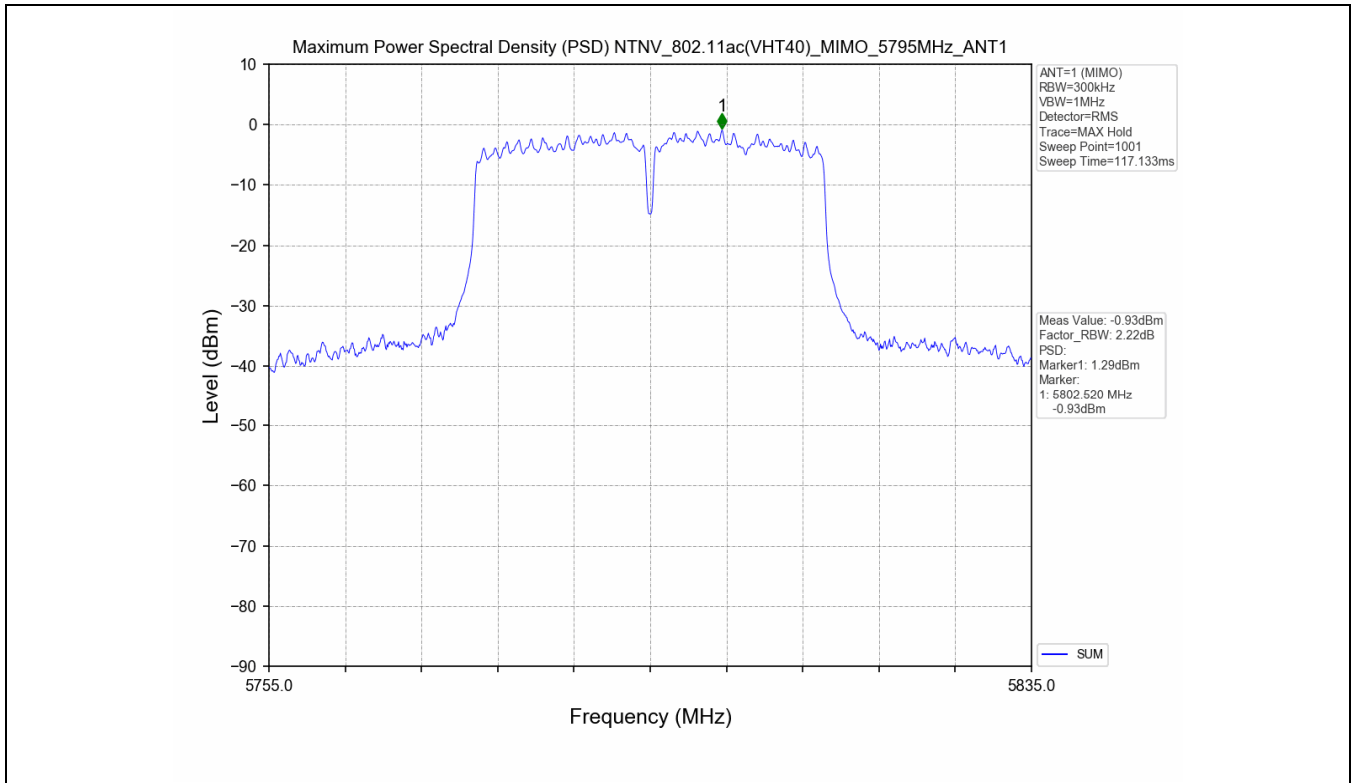


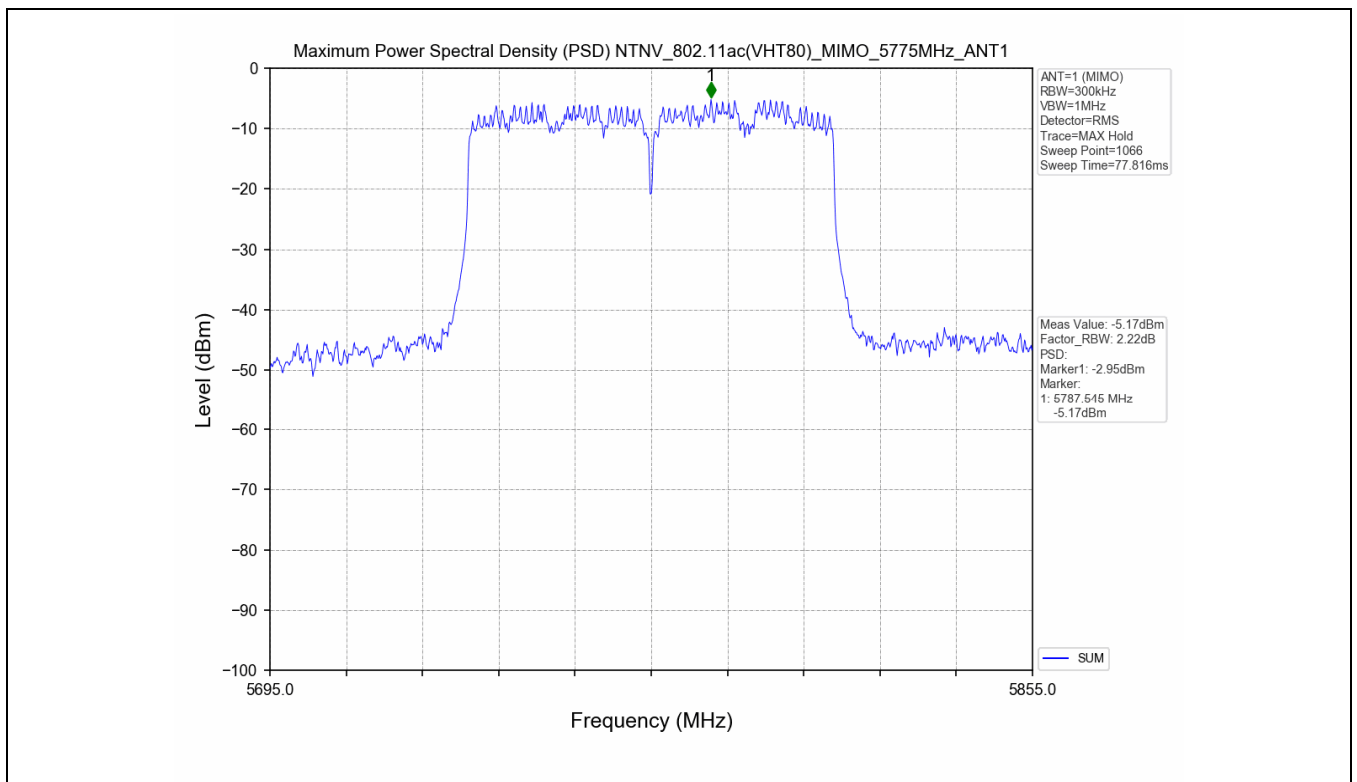
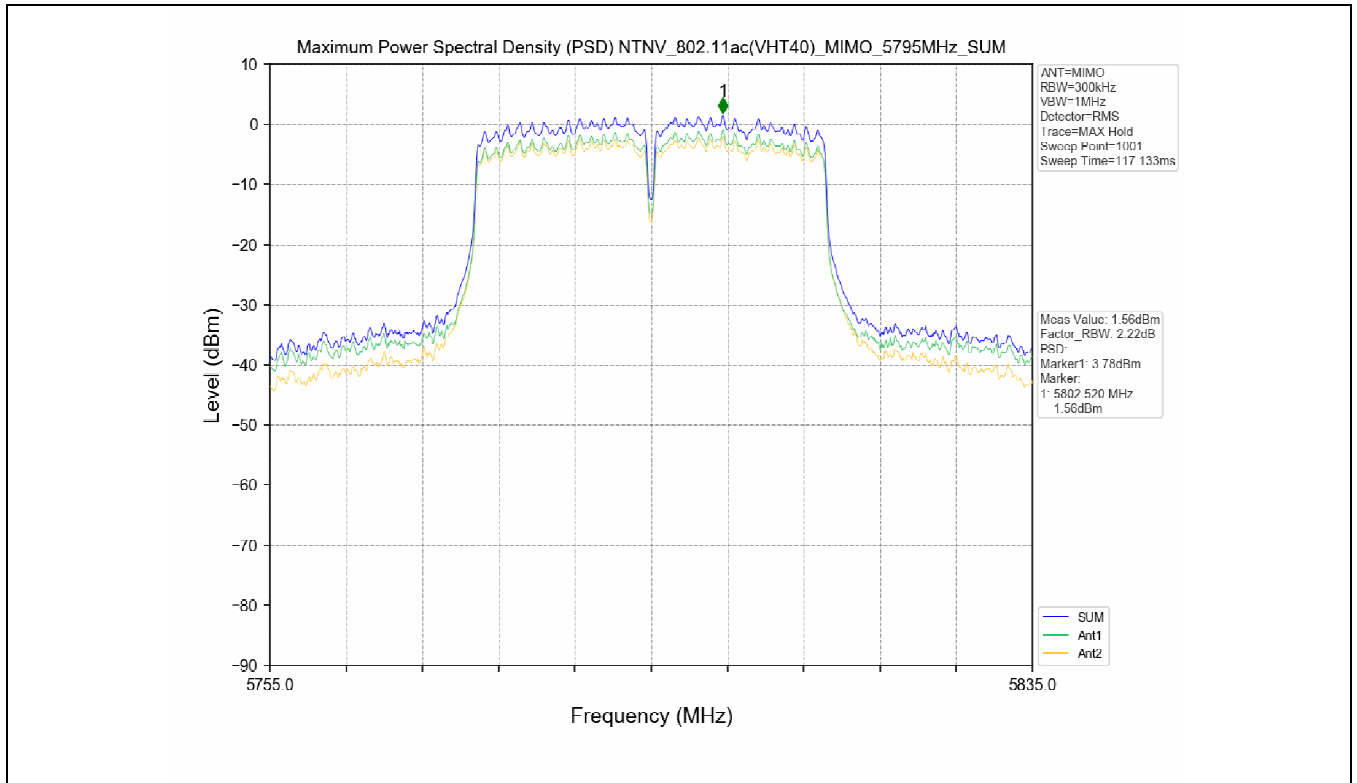


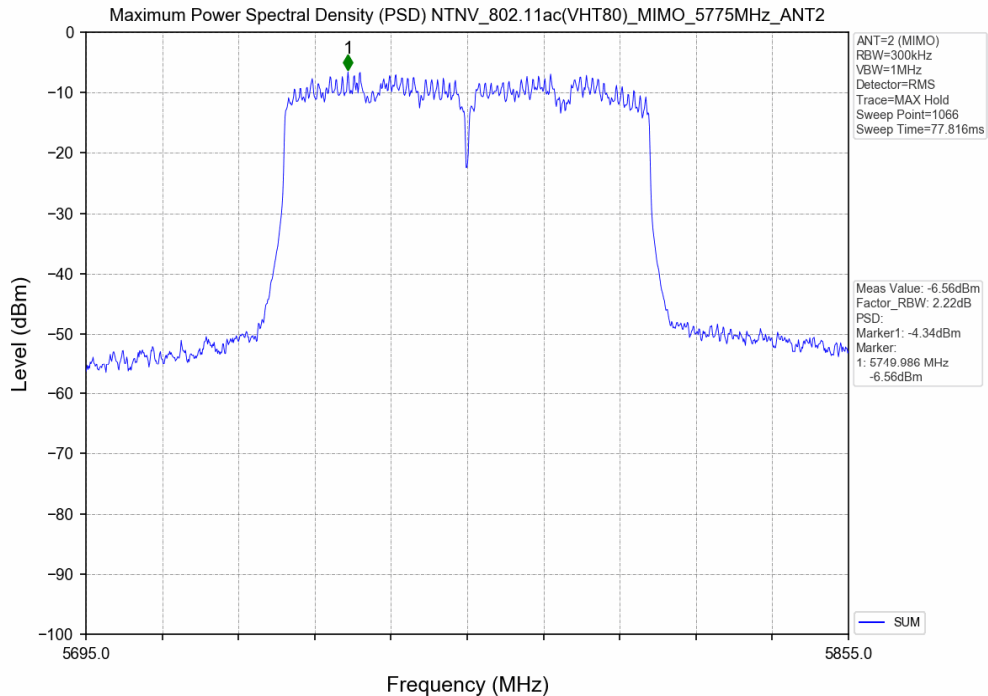
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5. Frequency Stability

5.1 Test Result

Test Condition	Test Mode	Test Frequency [MHz]	Ant	Result [ppm]	Limit [ppm]	Verdict
NTNV	802.11a	5180	1	-3.86	<=20	PASS
		5200	1	0	<=20	PASS
		5240	1	0	<=20	PASS
		5745	1	0	<=20	PASS
		5785	1	0	<=20	PASS
		5825	1	0	<=20	PASS
	802.11n	5190	MIMO	0	<=20	PASS
		5230	MIMO	0	<=20	PASS
		5755	MIMO	0	<=20	PASS
		5795	MIMO	0	<=20	PASS
	802.11ac	5210	MIMO	0	<=20	PASS
		5775	MIMO	0	<=20	PASS

Remark: Tests were conducted in all conditions and the worst case NTV is reported only.

- End of the Report -