

5. Frequency Stability

5.1 Test Result

Test Condition	Test Mode	Test Frequency [MHz]	Ant	Result [ppm]	Limit [ppm]	Verdict
NTNV	1.4M TX	5728.5	1	-2.09	<=20	PASS
		5786.5	1	-2.07	<=20	PASS
		5846.5	1	-2.39	<=20	PASS
	1.4M_CA TX	5730.12	1	-2.09	<=20	PASS
		5786.12	1	-2.42	<=20	PASS
		5848.12	1	-2.05	<=20	PASS
	3M TX	5730.5	1	0	<=20	PASS
		5787.5	1	0	<=20	PASS
		5844.5	1	0	<=20	PASS
	3M_CA TX	5733.2	1	0	<=20	PASS
		5790.2	1	0	<=20	PASS
		5847.2	1	0	<=20	PASS



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1.4M,1.4M CA,3M,3M CA-MIMO

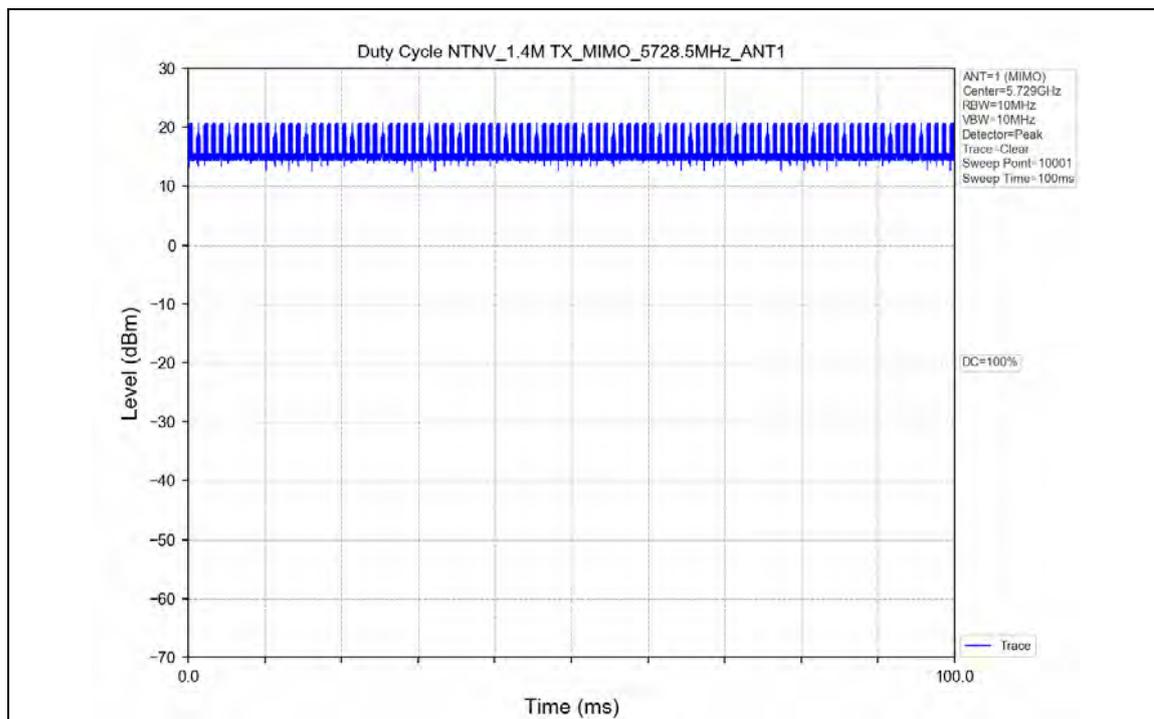
Antenna 1+Antenna 2, Antenna 1+Antenna 4, Antenna 2+Antenna 3, Antenna 3+Antenna 4 were tested. Only the worst case(Antenna 1+Antenna 2) was recorded in the report.

1. Duty Cycle

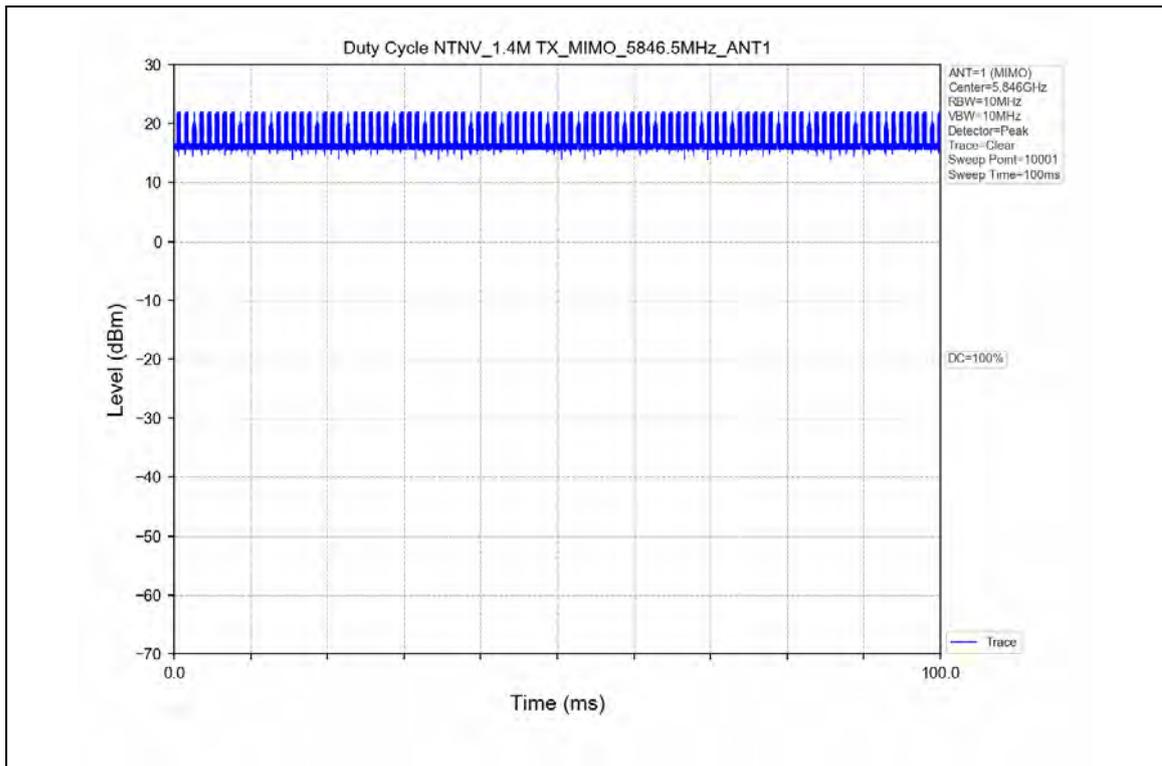
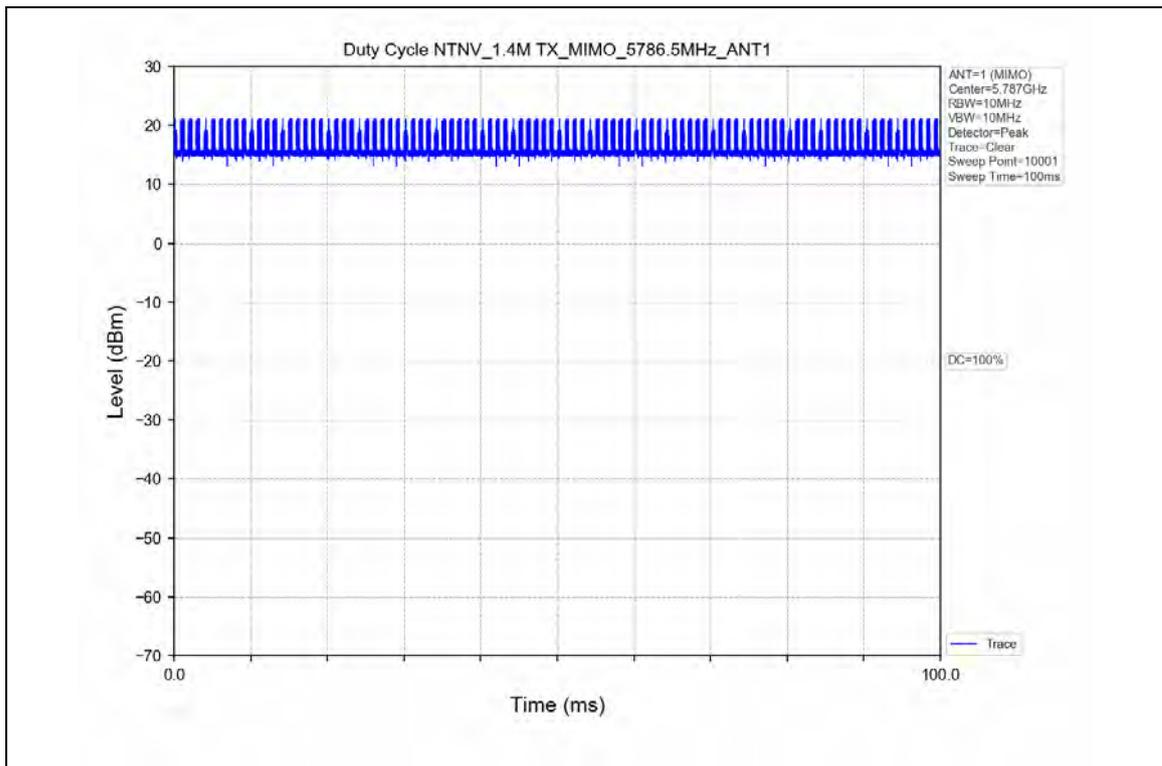
1.1 Test Result

Test Mode	Channel Frequency (MHz)	TX Type	ANT No.	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)
1.4M TX	5728.5	MIMO	1	100.000	100.000	100.00	0.00
	5786.5	MIMO	1	100.000	100.000	100.00	0.00
	5846.5	MIMO	1	100.000	100.000	100.00	0.00
1.4M_CA TX	5730.12	MIMO	1	100.000	100.000	100.00	0.00
	5786.12	MIMO	1	100.000	100.000	100.00	0.00
	5848.12	MIMO	1	100.000	100.000	100.00	0.00
3M TX	5730.5	MIMO	1	100.000	100.000	100.00	0.00
	5787.5	MIMO	1	100.000	100.000	100.00	0.00
	5844.5	MIMO	1	100.000	100.000	100.00	0.00
3M_CA TX	5733.2	MIMO	1	100.000	100.000	100.00	0.00
	5790.2	MIMO	1	100.000	100.000	100.00	0.00
	5847.2	MIMO	1	100.000	100.000	100.00	0.00

1.2 Test Graph



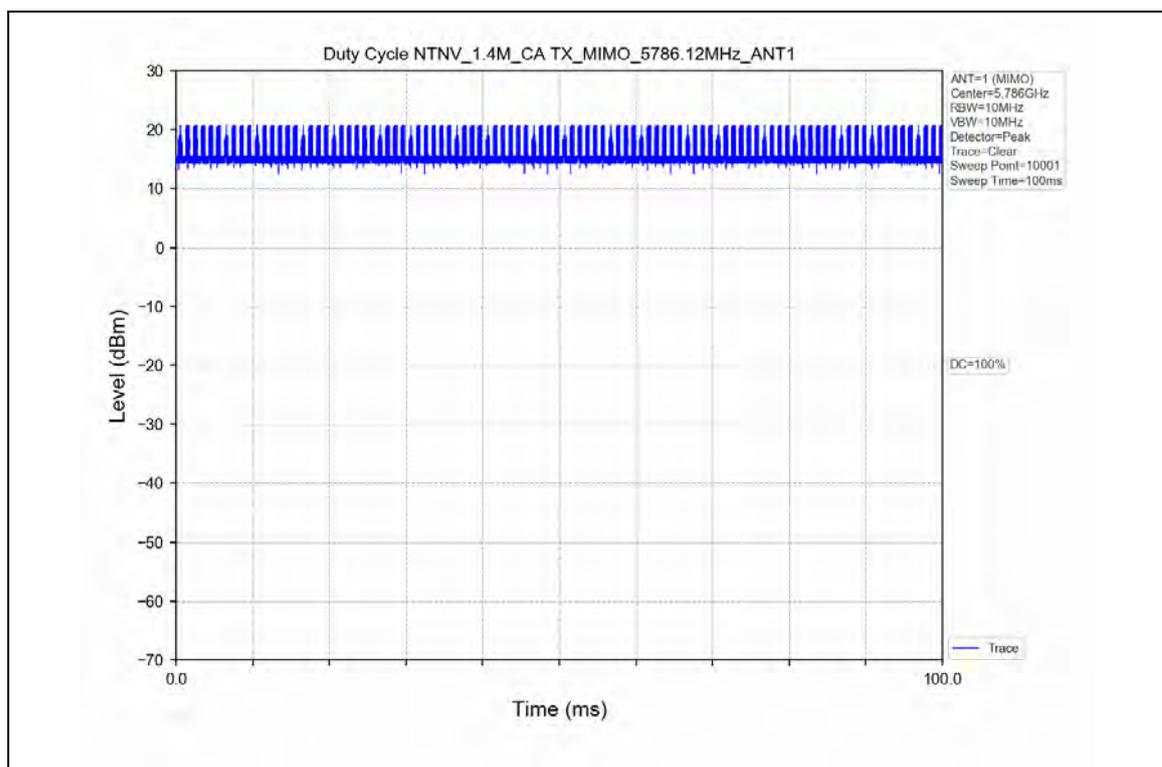
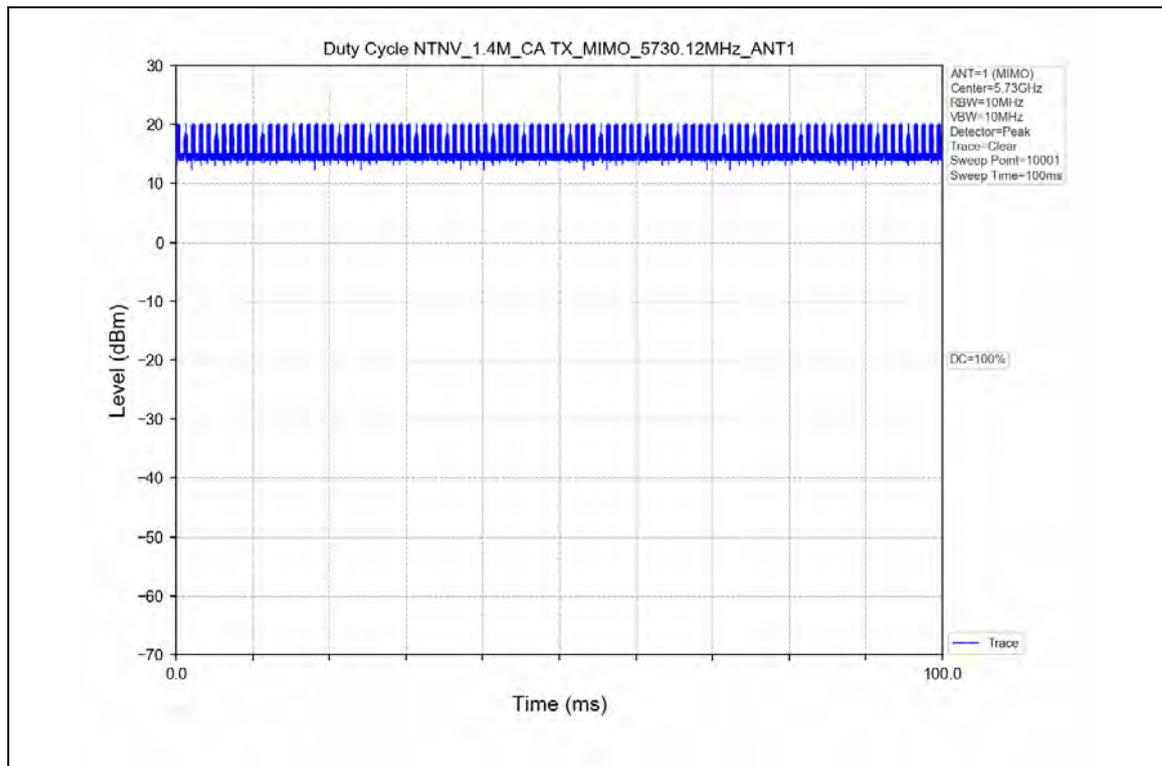
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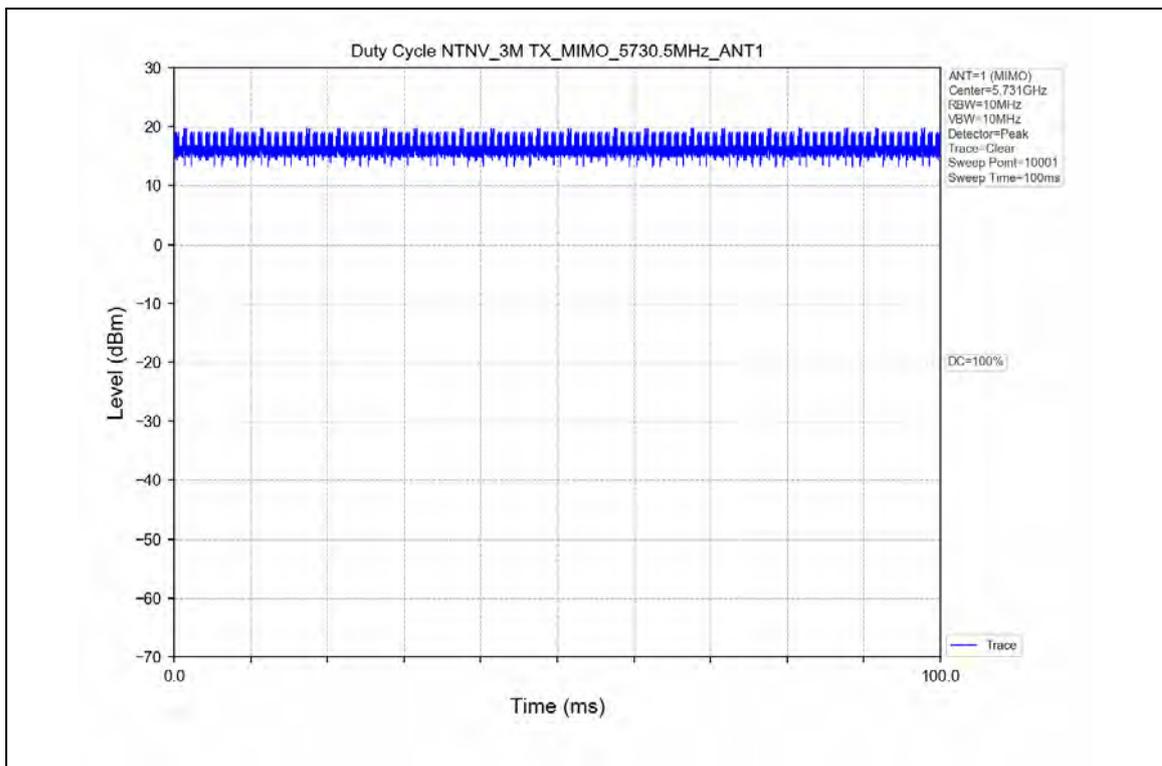
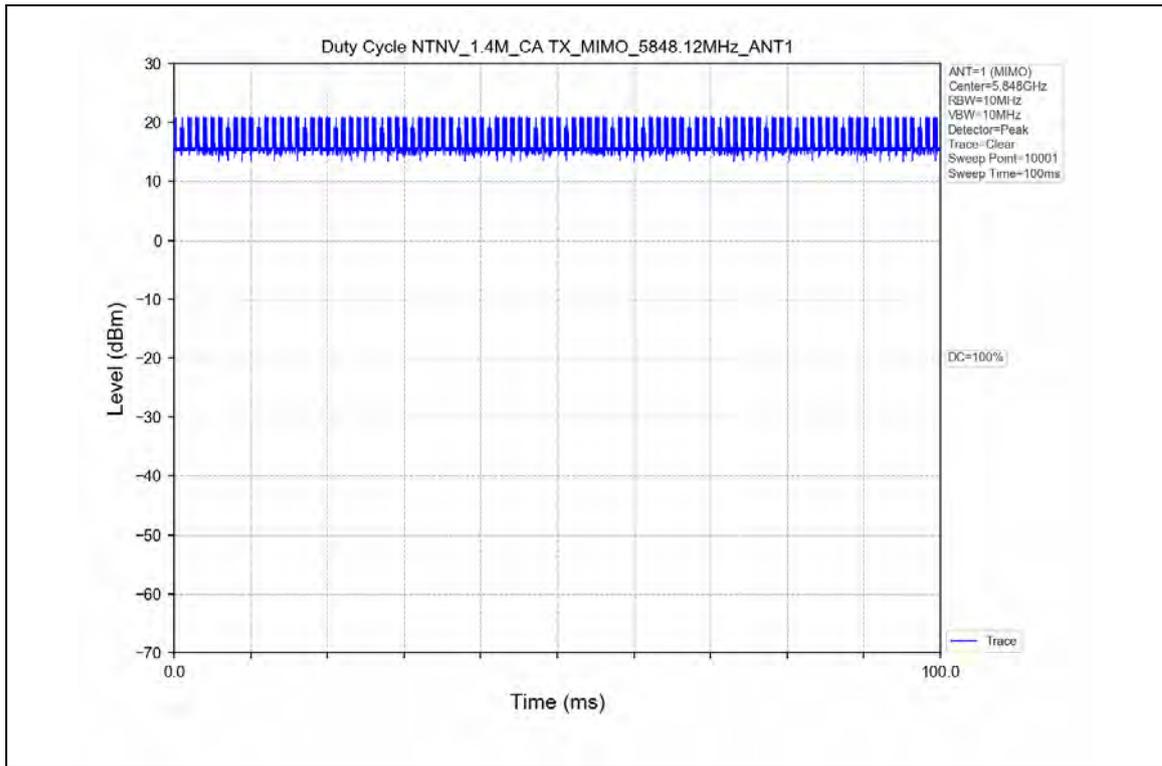
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 Shenzhen Branch

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgs.com.cn
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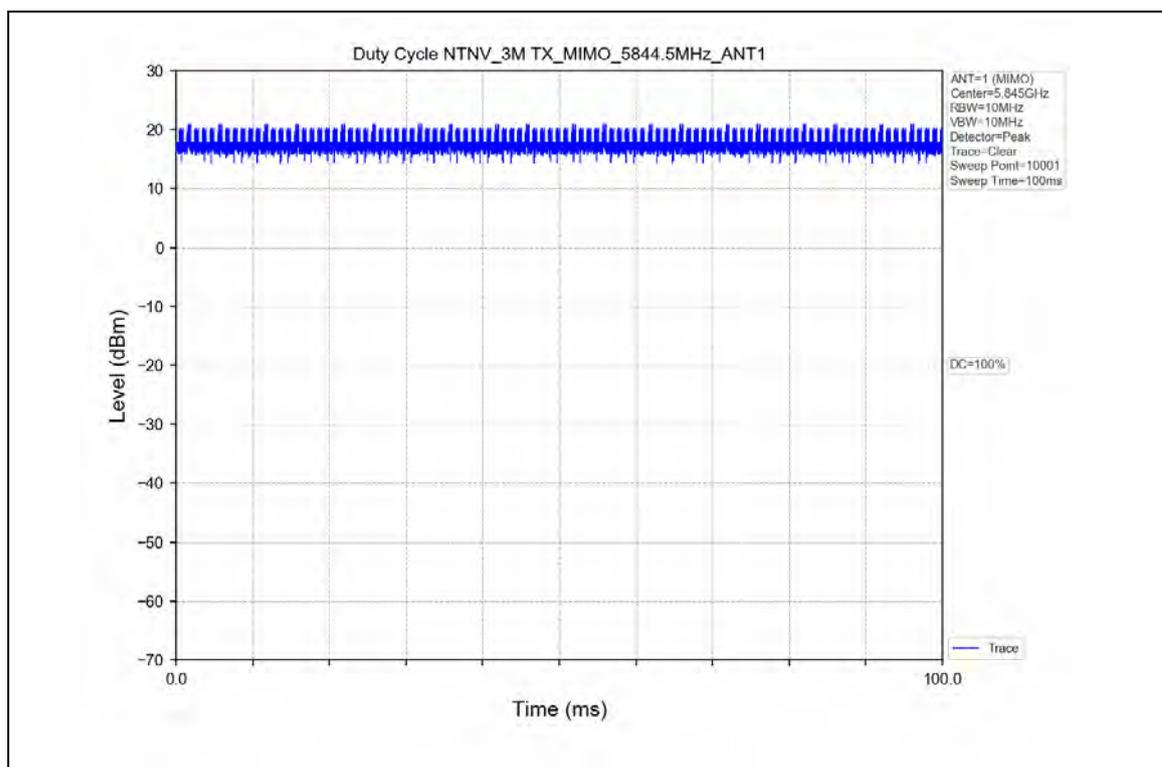
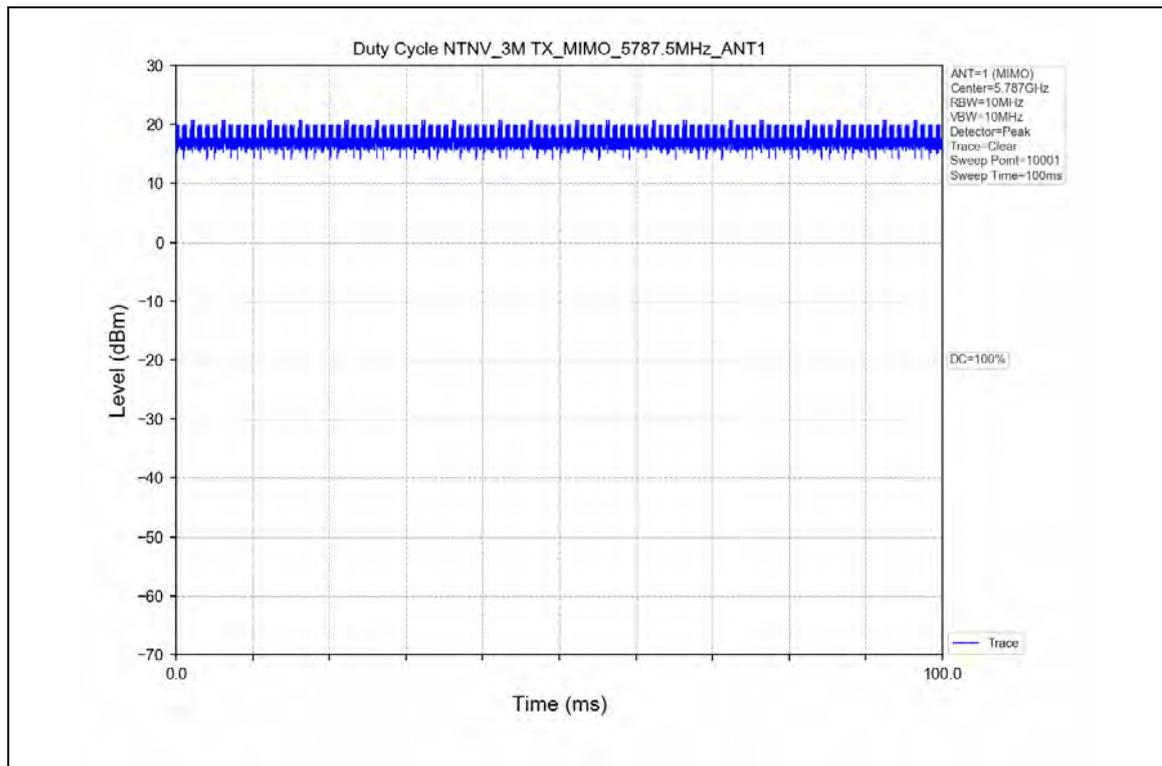
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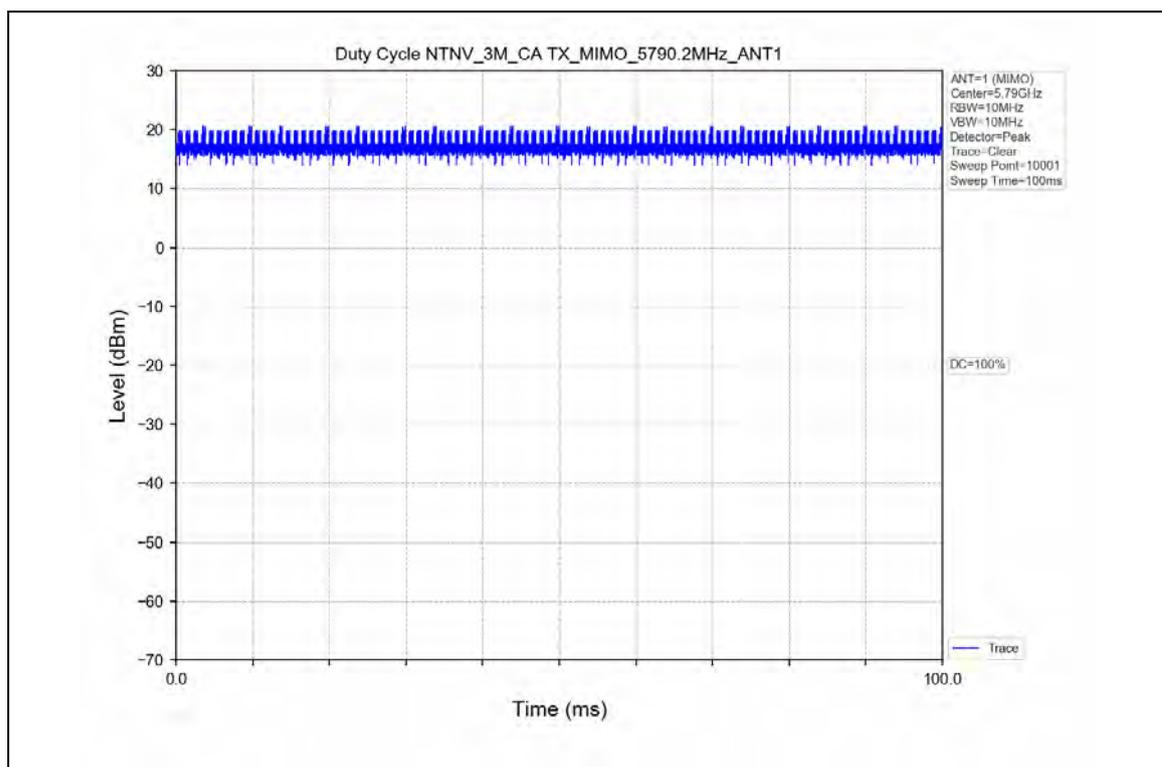
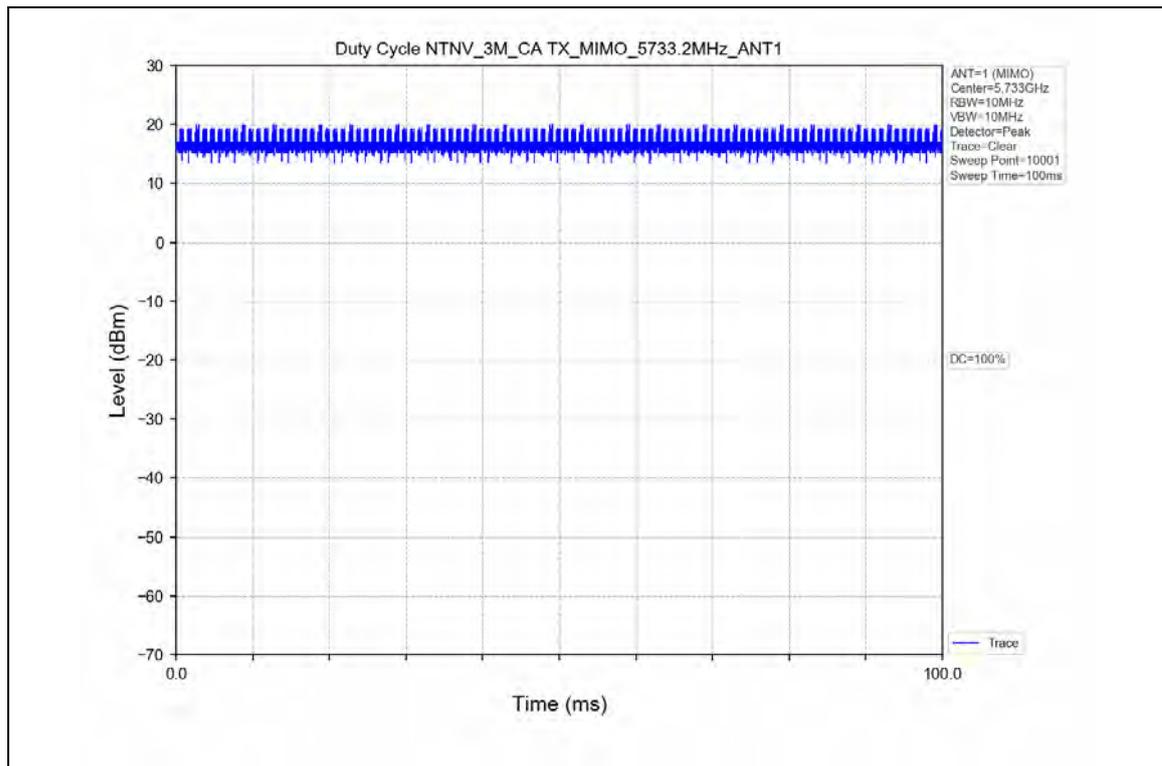
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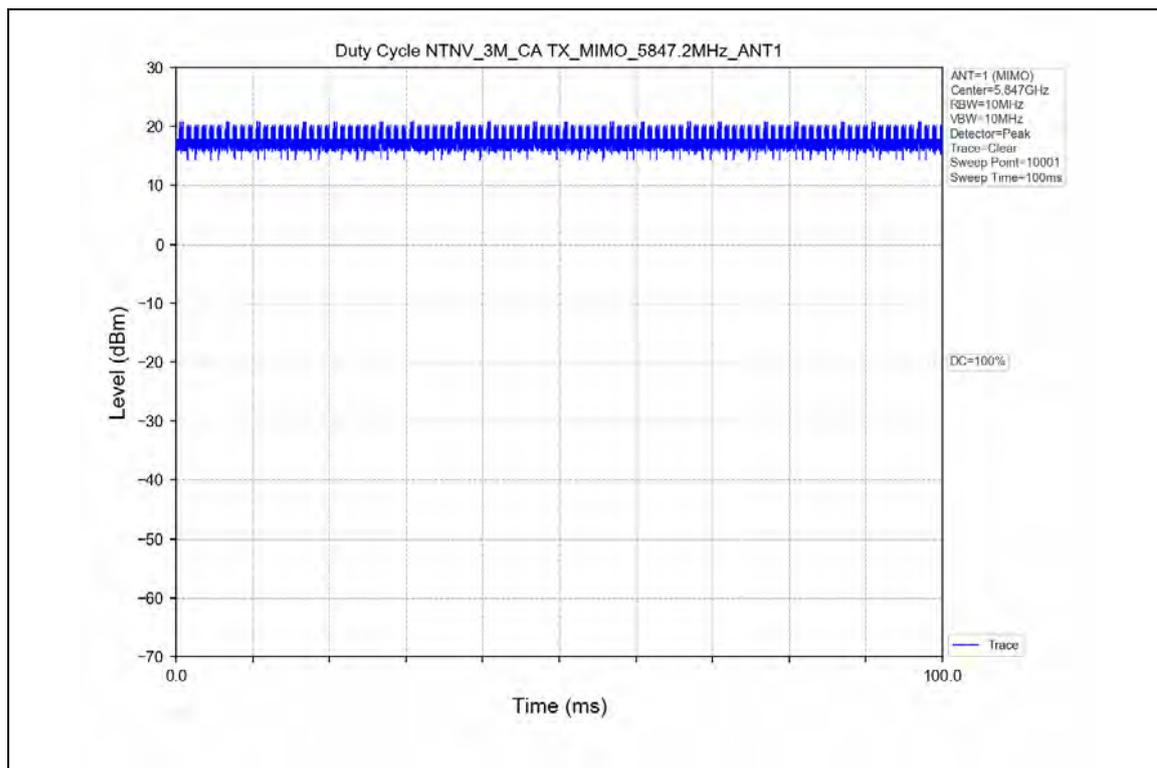


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2. Bandwidth

2.1 Test Result

Test Mode	Frequency (MHz)	TX Type	ANT No.	6dB Emission Bandwidth		Verdict
				Test Result (MHz)	Limits (MHz)	
1.4M TX	5728.5	MIMO	1	1.099	≥0.5	PASS
	5786.5	MIMO	1	1.100	≥0.5	PASS
	5846.5	MIMO	1	1.098	≥0.5	PASS
1.4M_CA TX	5730.12	MIMO	1	1.098	≥0.5	PASS
	5786.12	MIMO	1	1.099	≥0.5	PASS
	5848.12	MIMO	1	1.100	≥0.5	PASS
3M TX	5730.5	MIMO	1	2.180	≥0.5	PASS
	5787.5	MIMO	1	2.184	≥0.5	PASS
	5844.5	MIMO	1	2.185	≥0.5	PASS
3M_CA TX	5733.2	MIMO	1	2.179	≥0.5	PASS
	5790.2	MIMO	1	2.181	≥0.5	PASS
	5847.2	MIMO	1	2.184	≥0.5	PASS

Test Mode	Frequency (MHz)	TX Type	ANT No.	99% Occupied Bandwidth	
				Test Result (MHz)	
1.4M TX	5728.5	MIMO	1	1.327	Only for Report Use

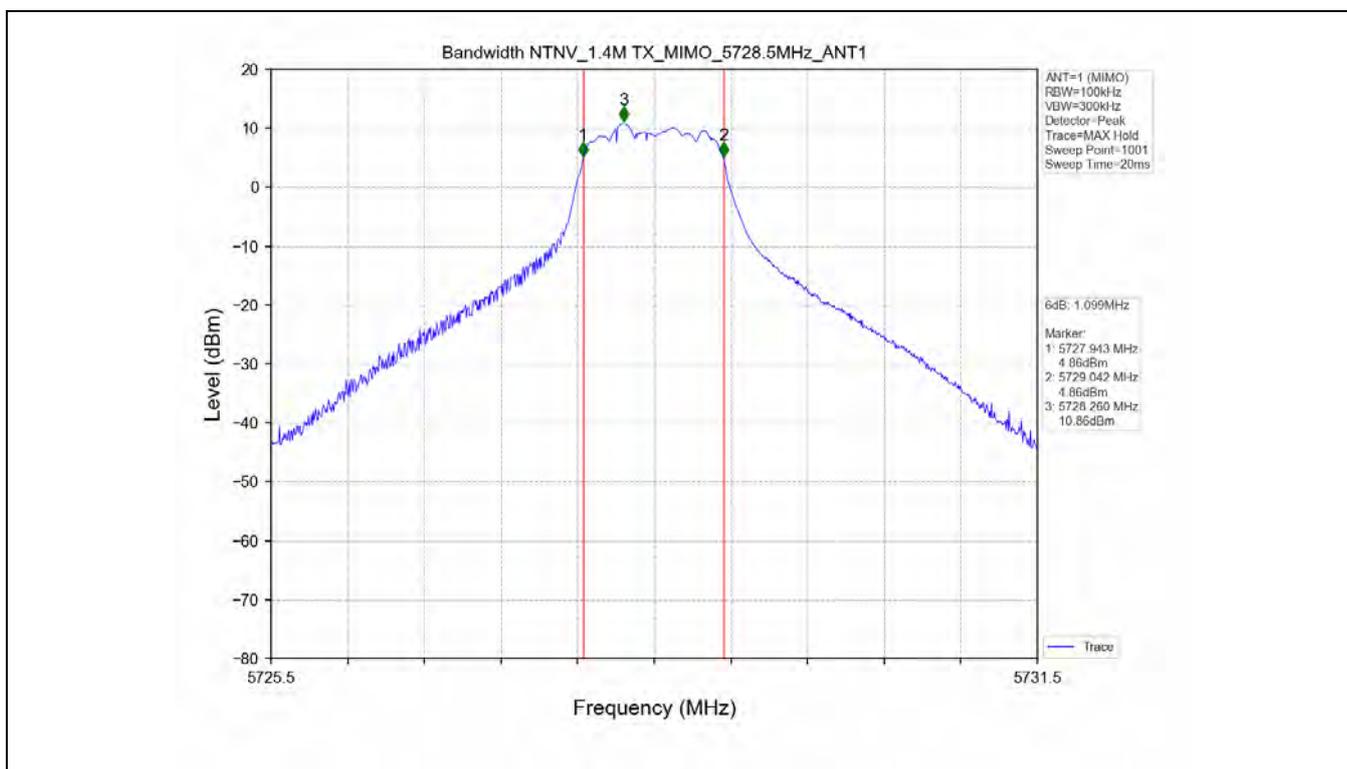


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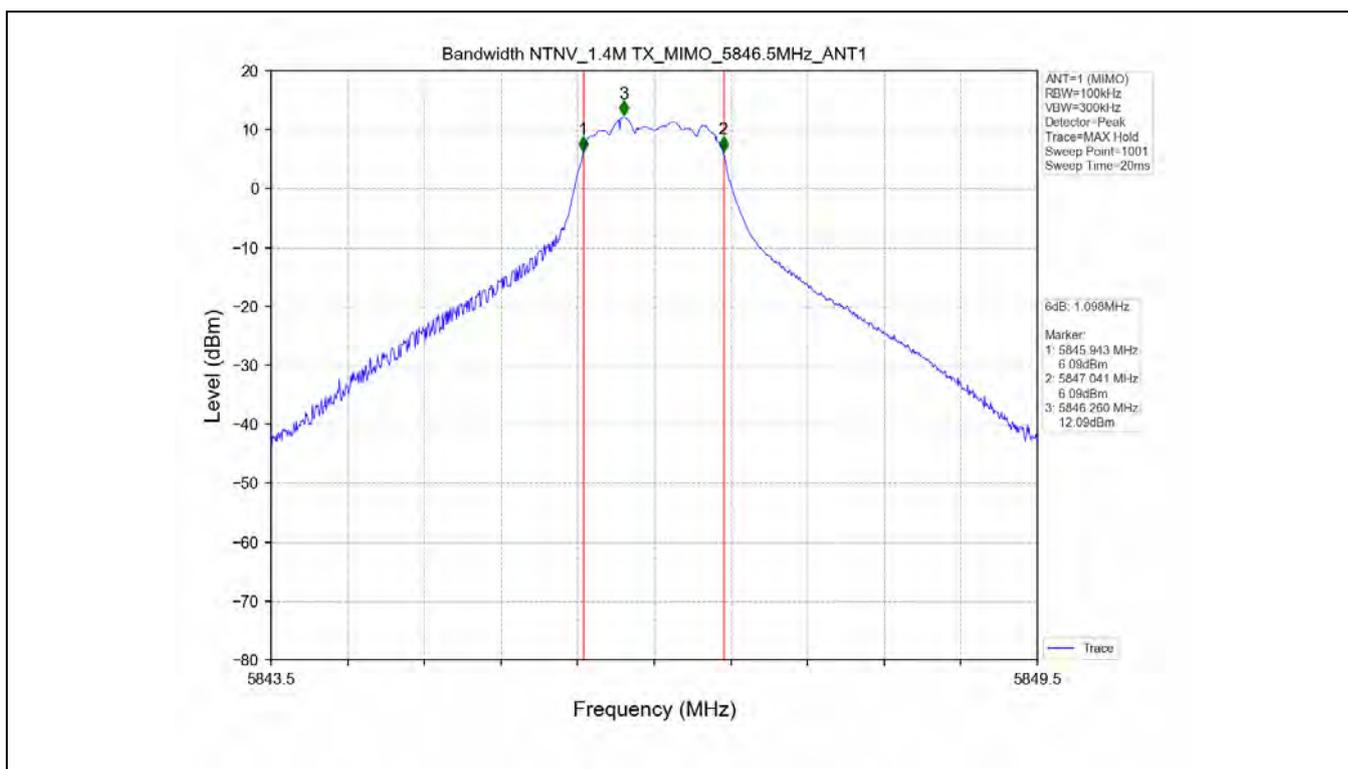
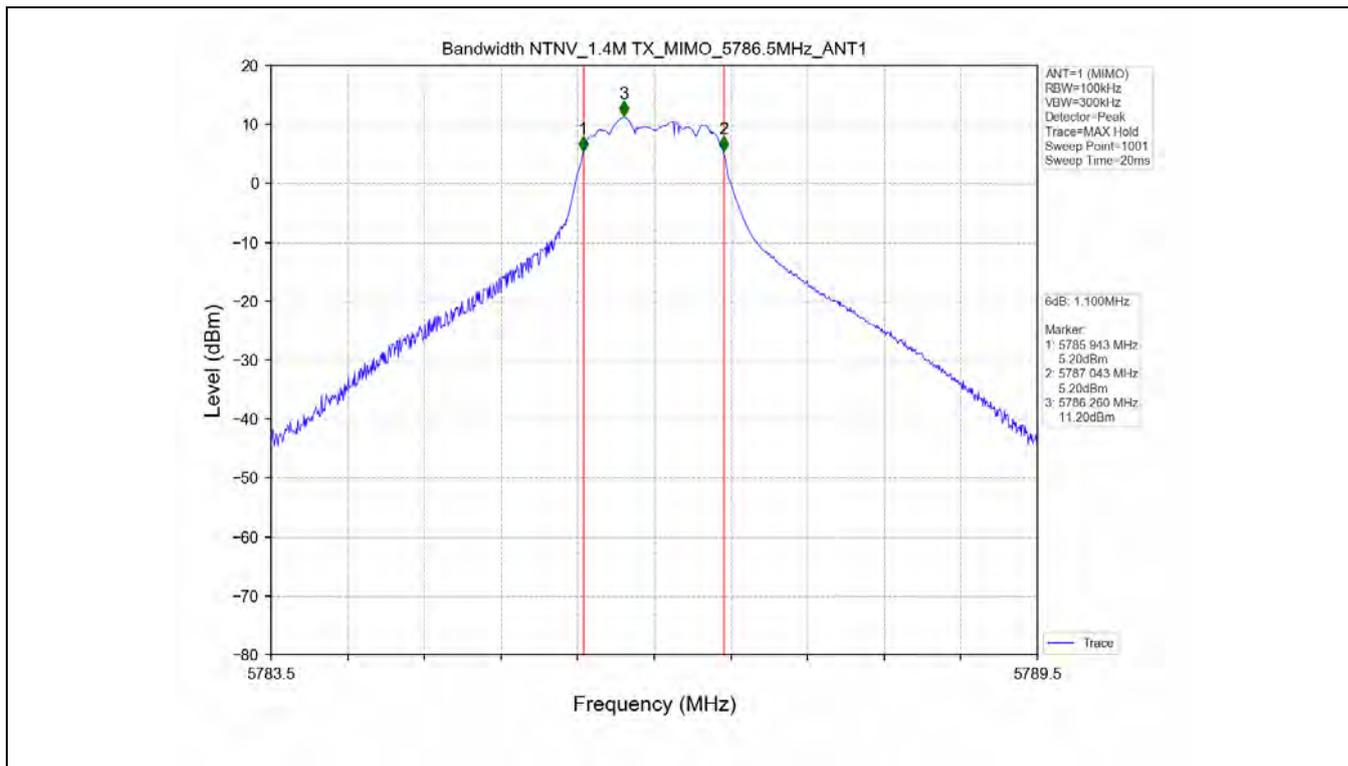
	5786.5	MIMO	1	1.334	Only for Report Use
	5846.5	MIMO	1	1.324	Only for Report Use
1.4M_CA TX	5730.12	MIMO	1	1.344	Only for Report Use
	5786.12	MIMO	1	1.326	Only for Report Use
	5848.12	MIMO	1	1.339	Only for Report Use
3M TX	5730.5	MIMO	1	2.394	Only for Report Use
	5787.5	MIMO	1	2.394	Only for Report Use
	5844.5	MIMO	1	2.395	Only for Report Use
3M_CA TX	5733.2	MIMO	1	2.412	Only for Report Use
	5790.2	MIMO	1	2.396	Only for Report Use
	5847.2	MIMO	1	2.391	Only for Report Use

2.2 Test Graph - Emission Bandwidth

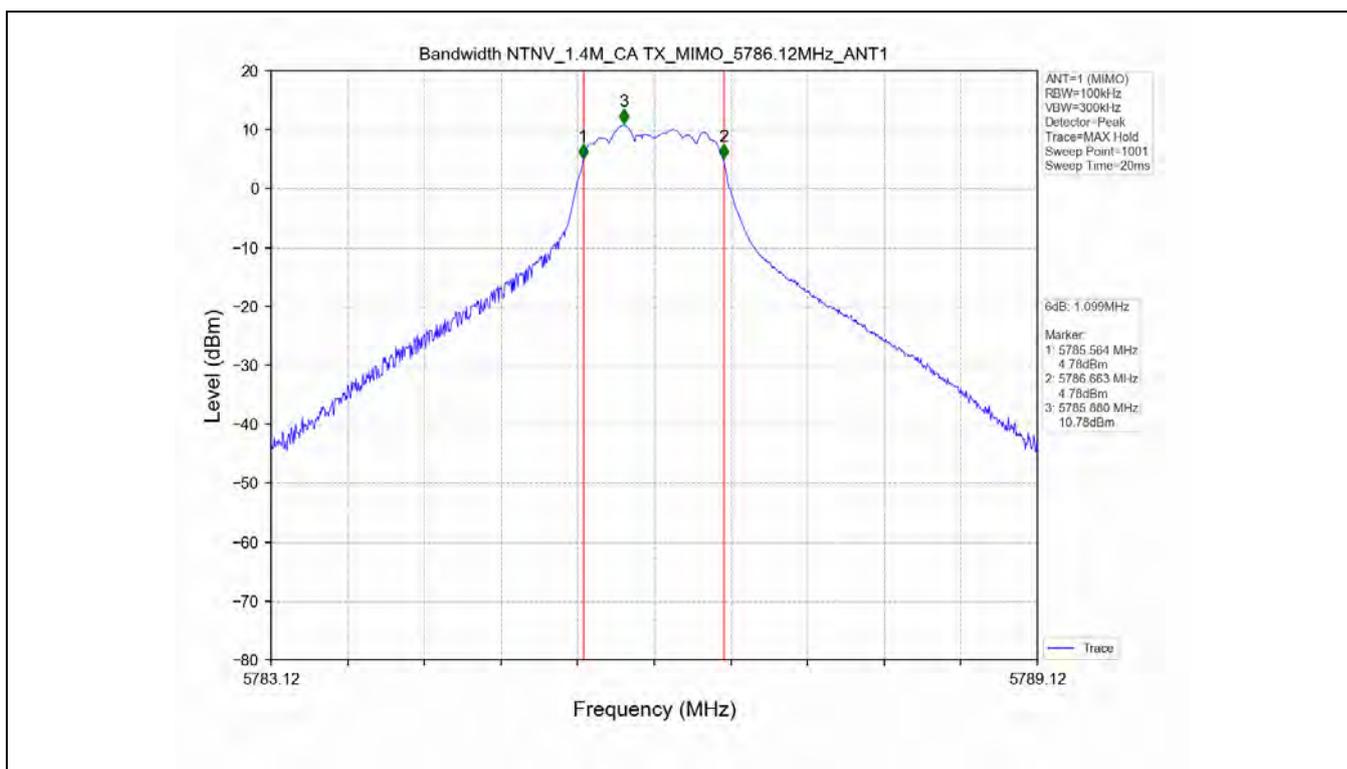
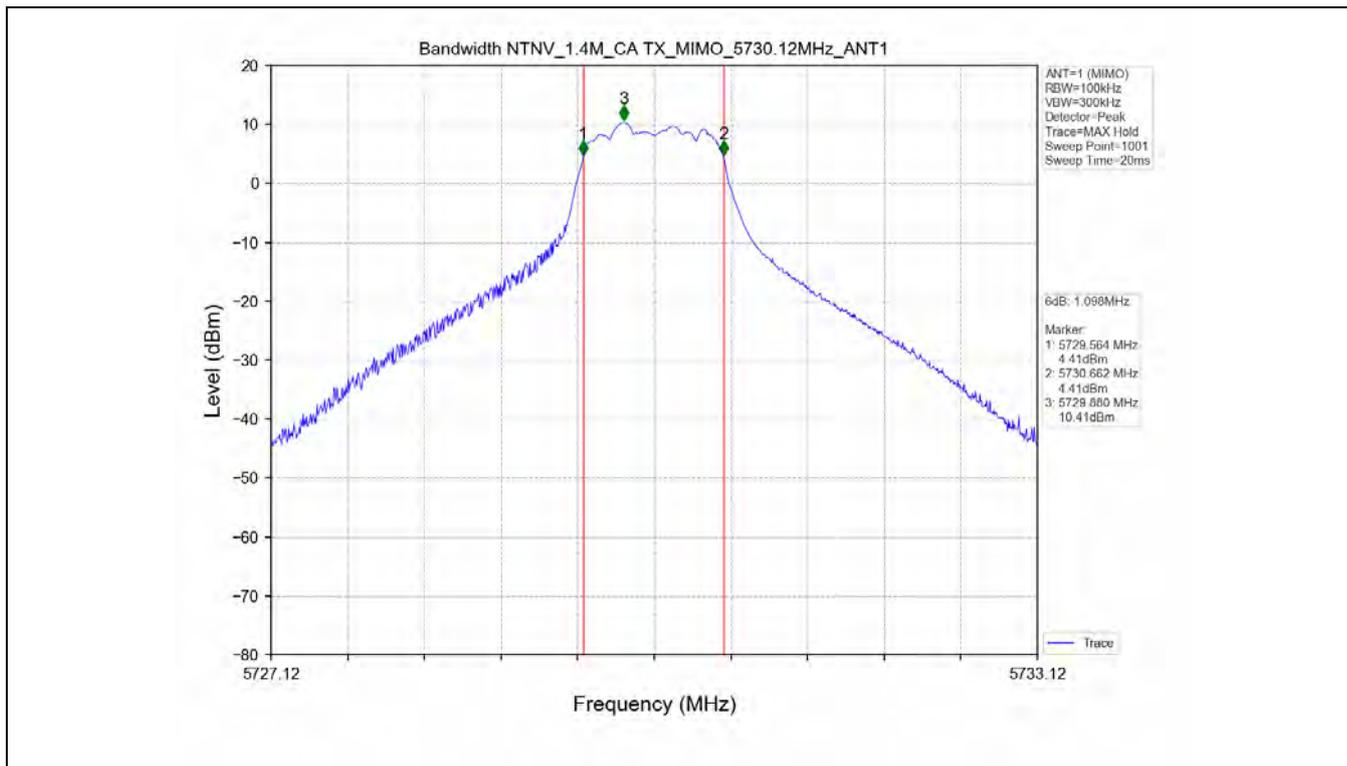


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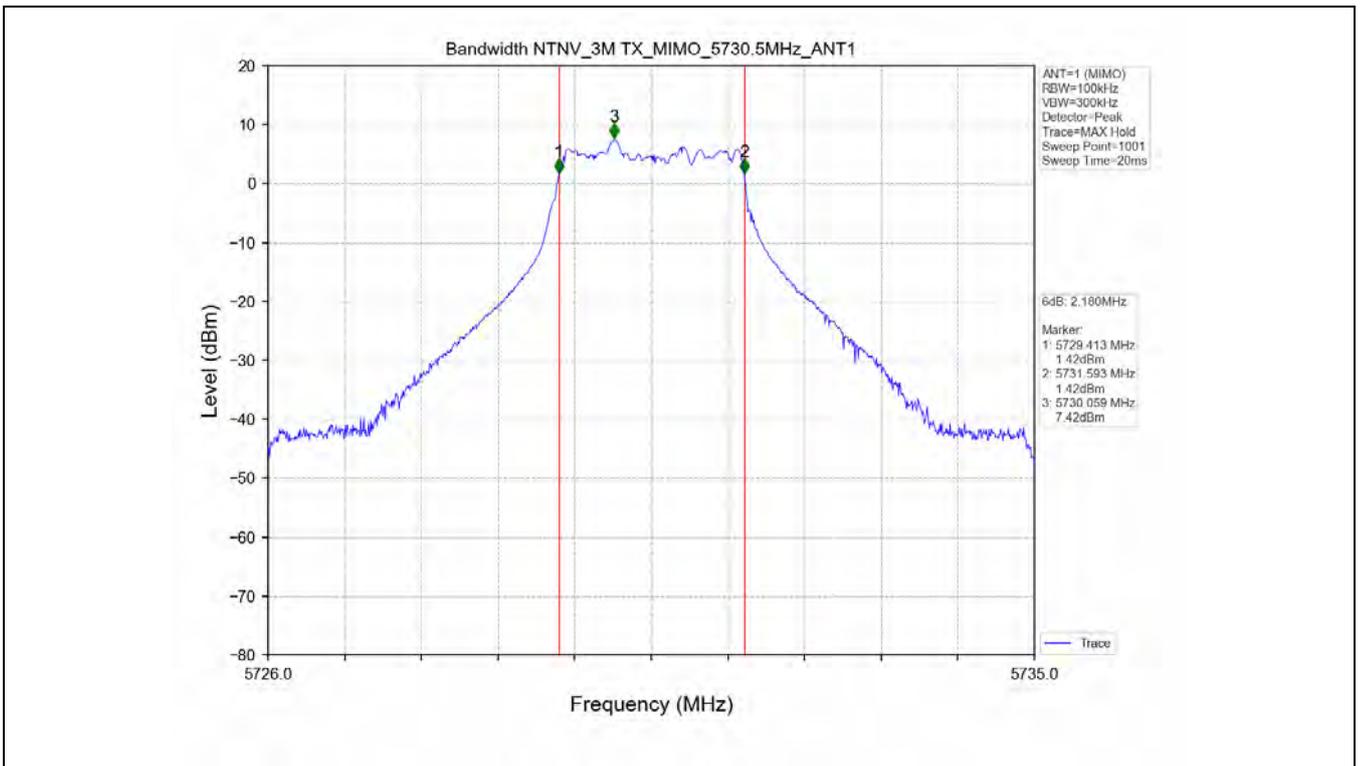
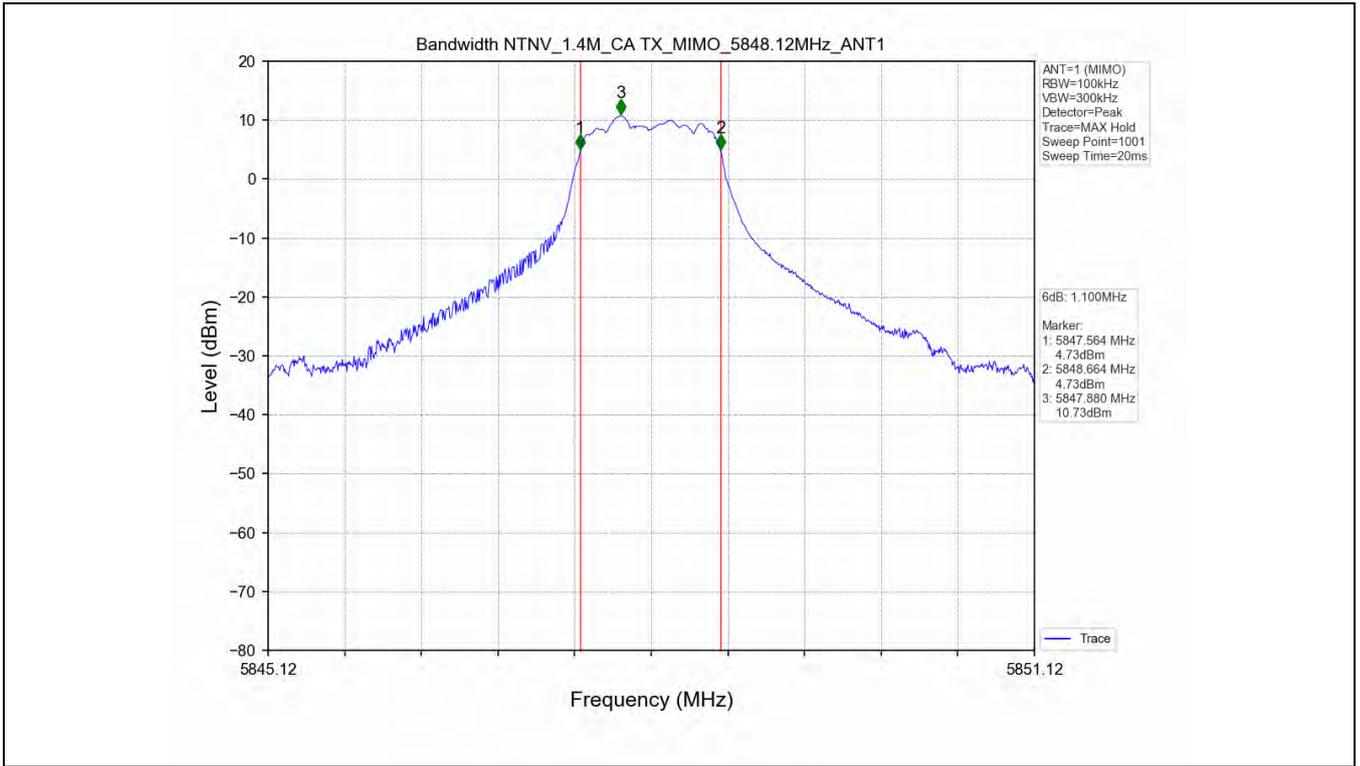


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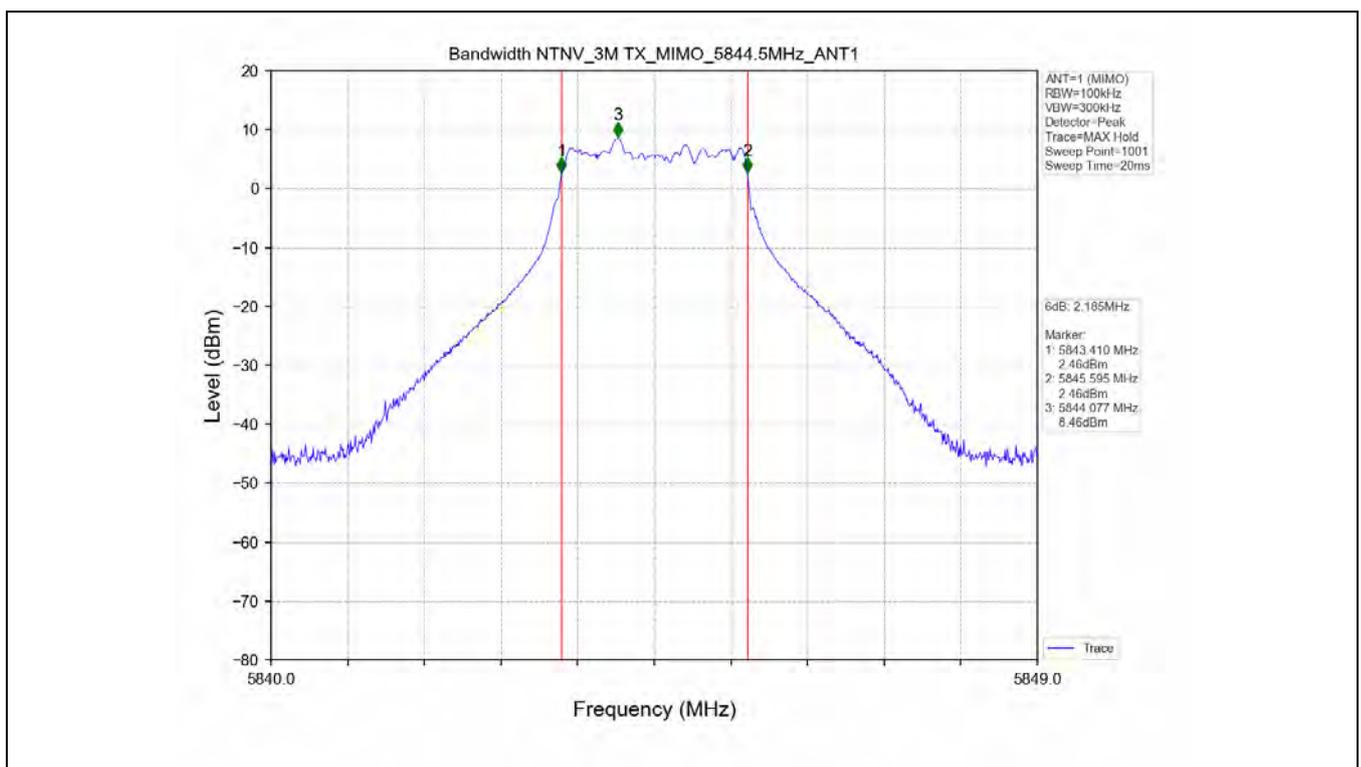
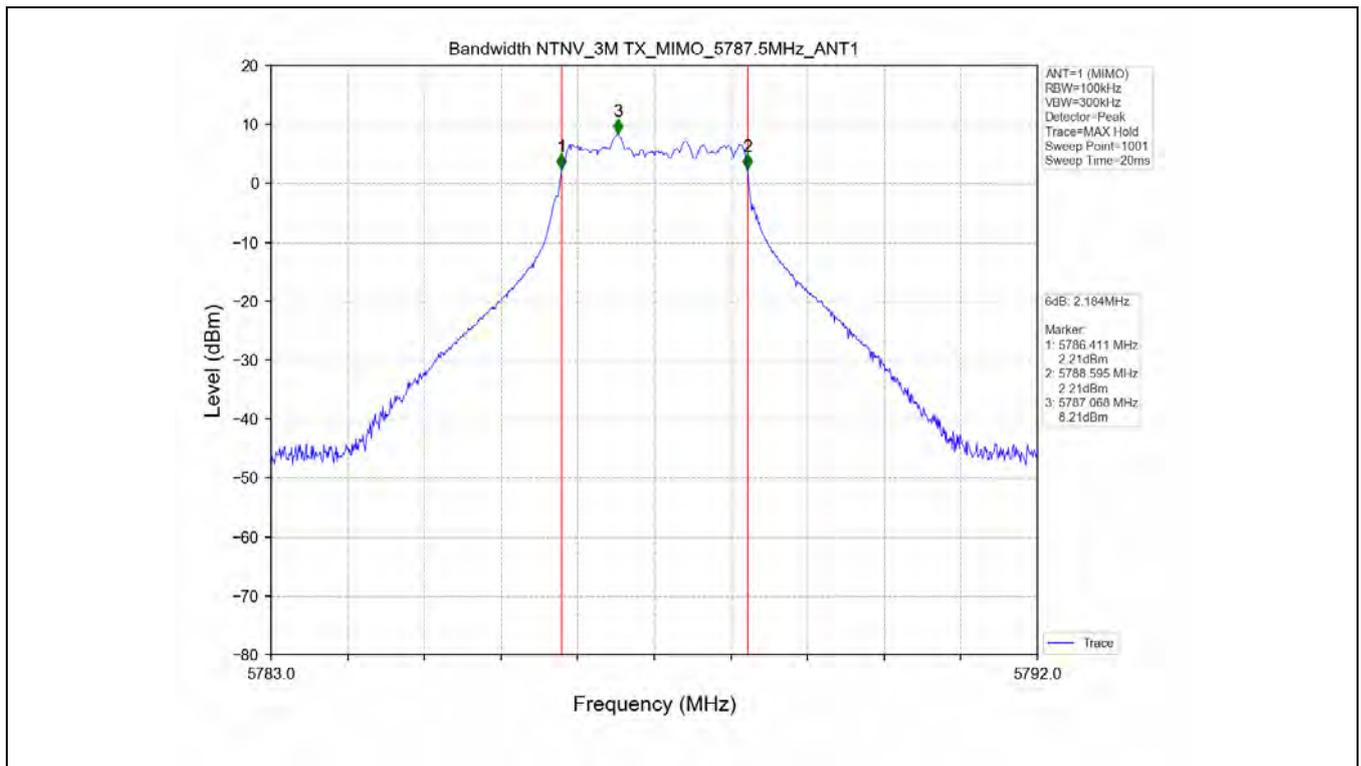
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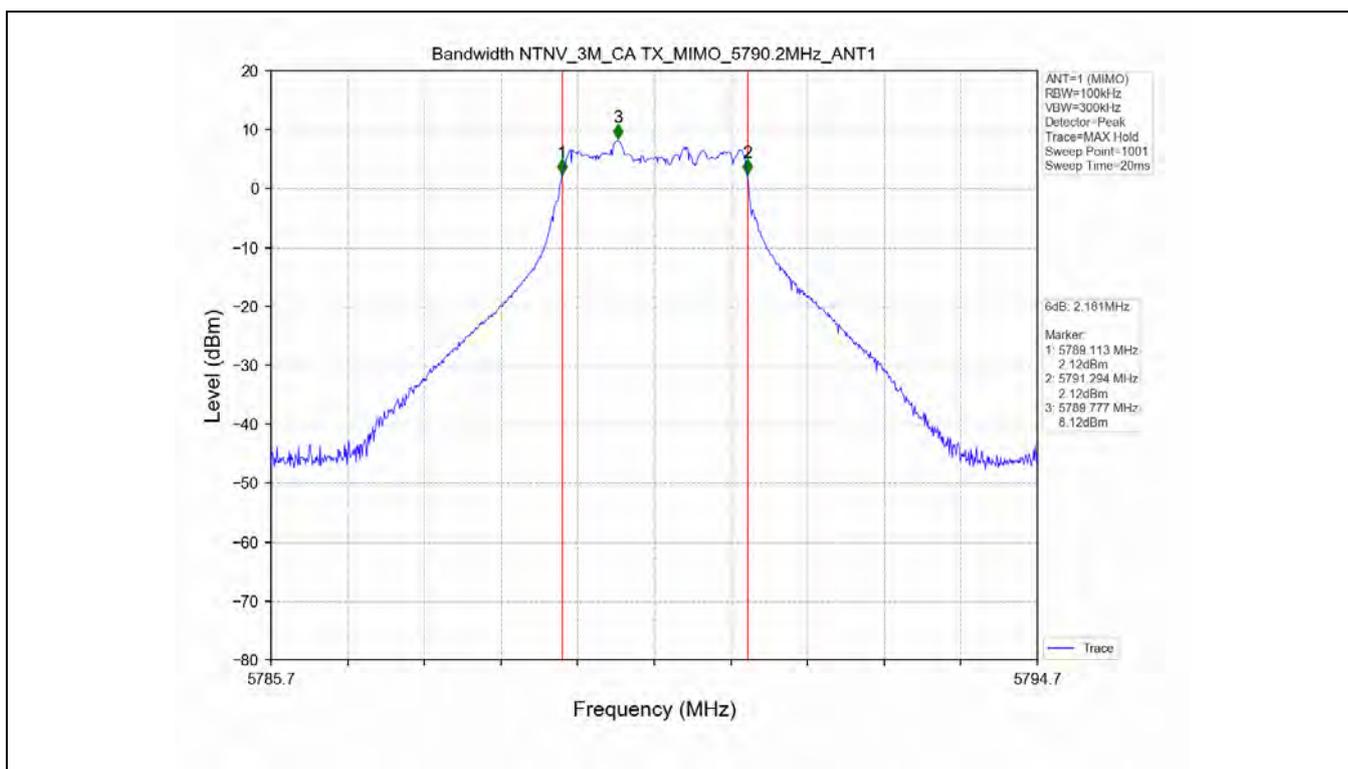
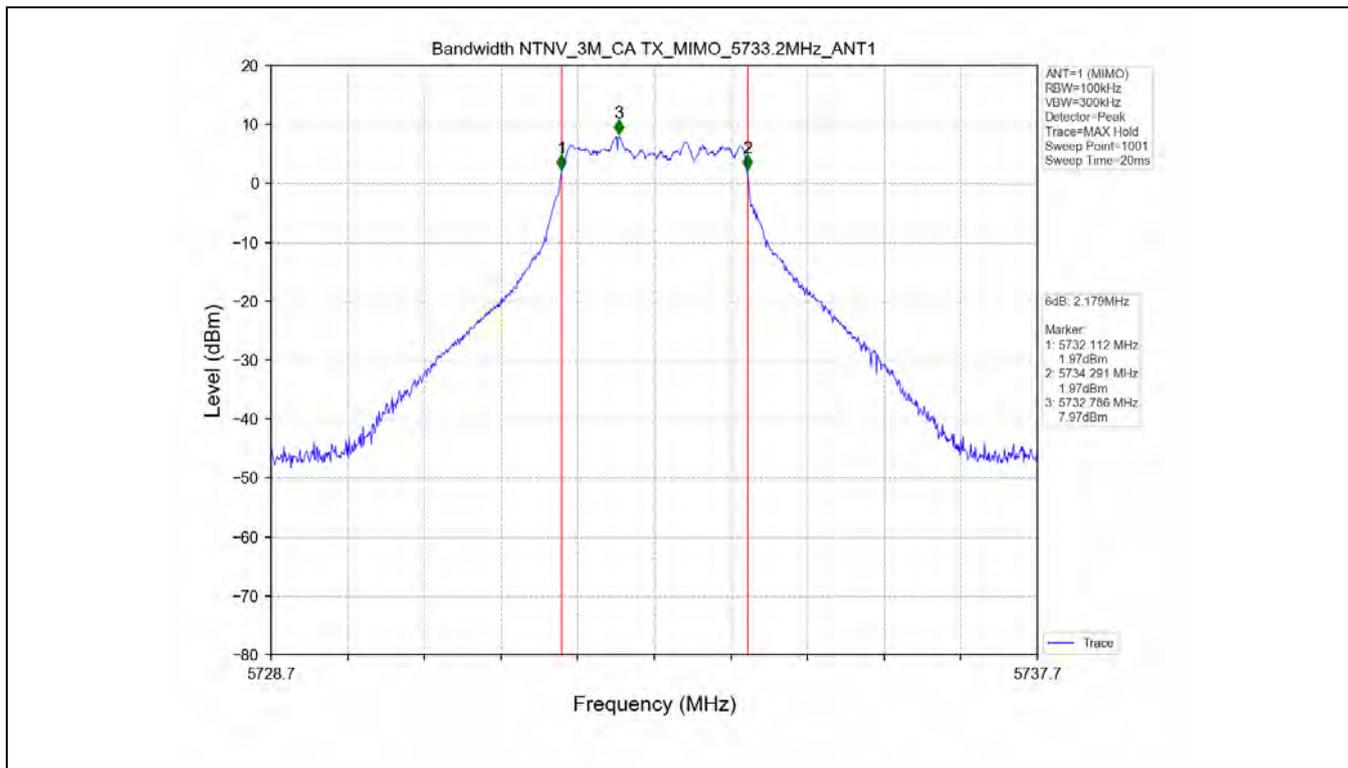
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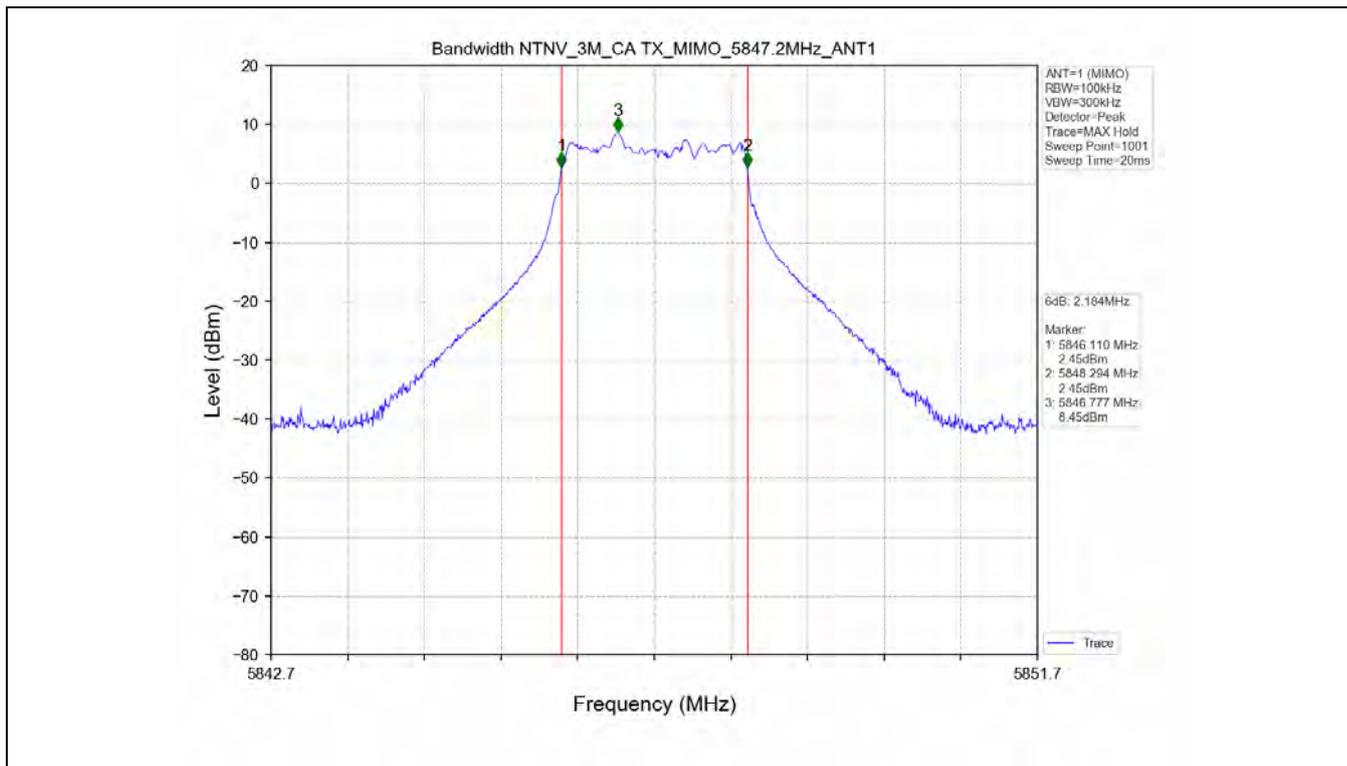
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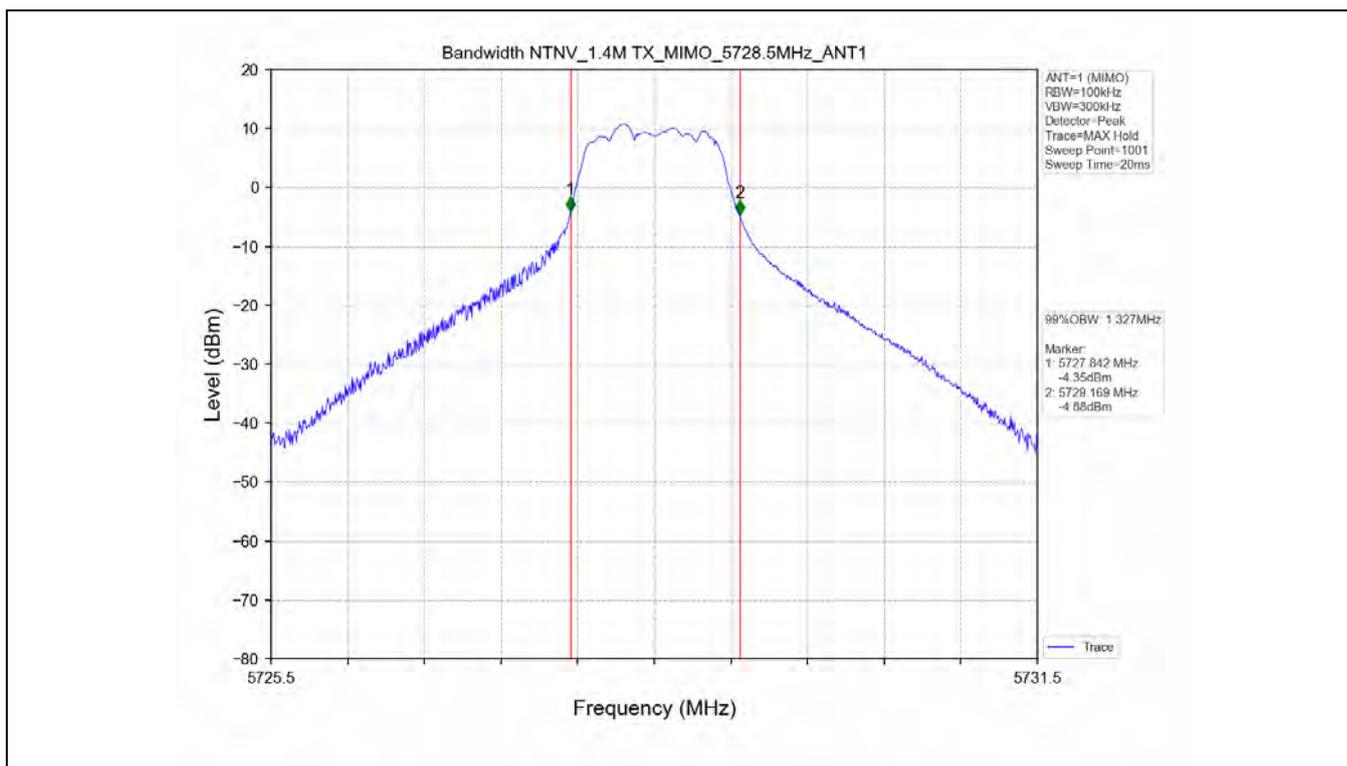


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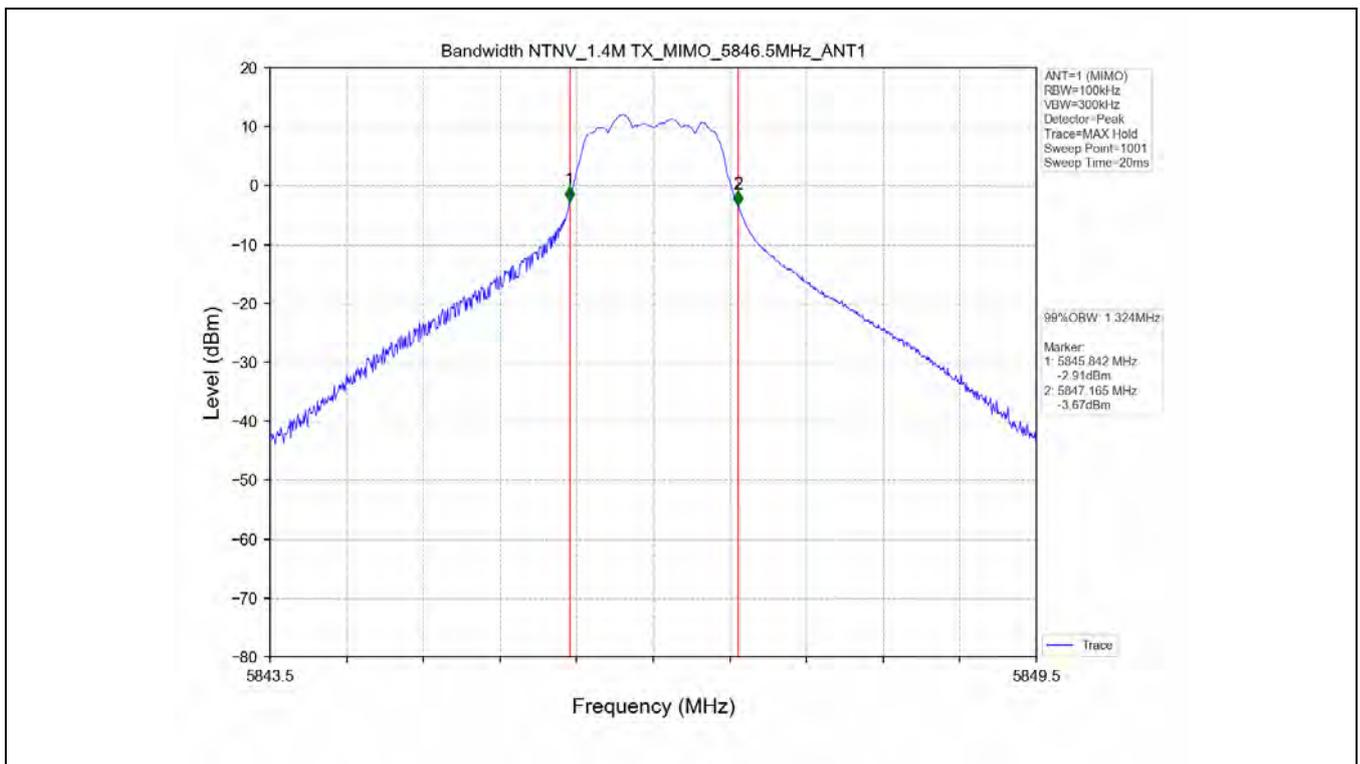
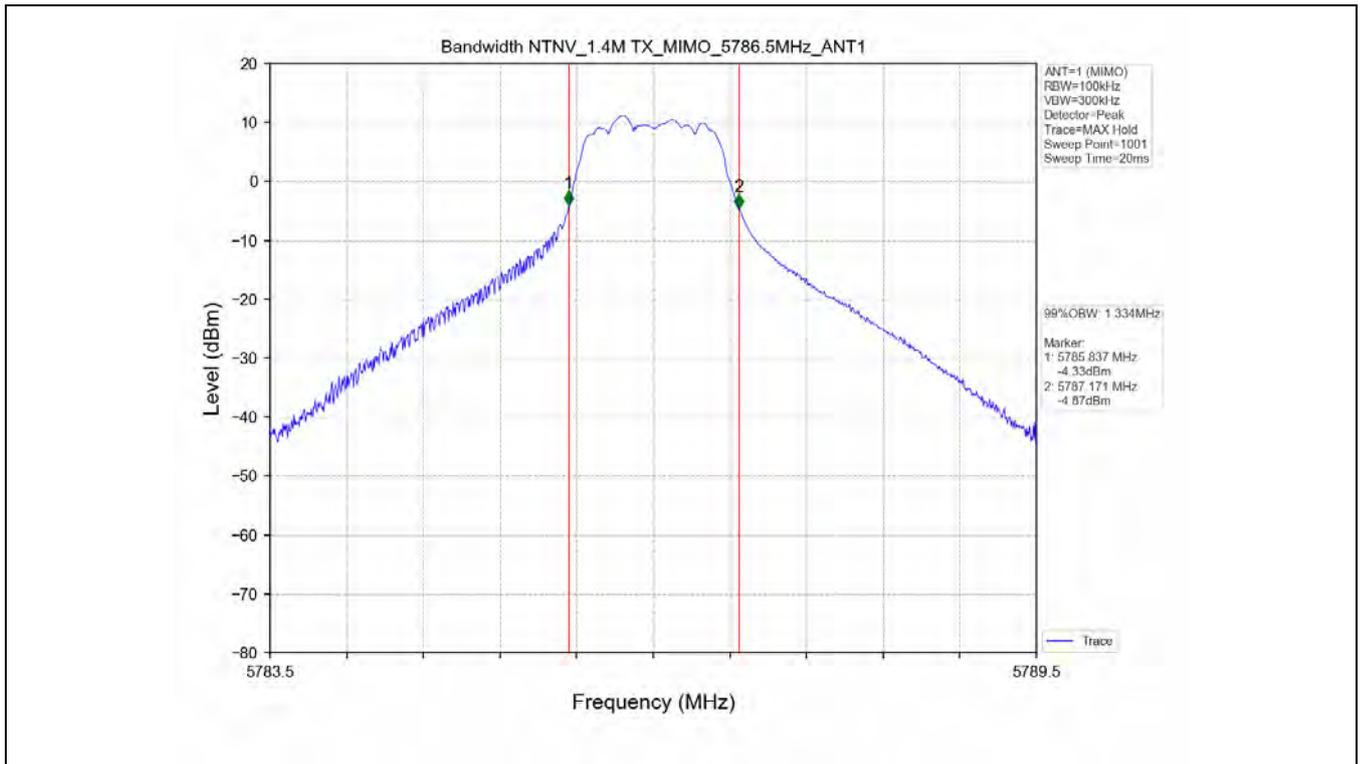


2.3 Test Graph - 99% Occupied Bandwidth



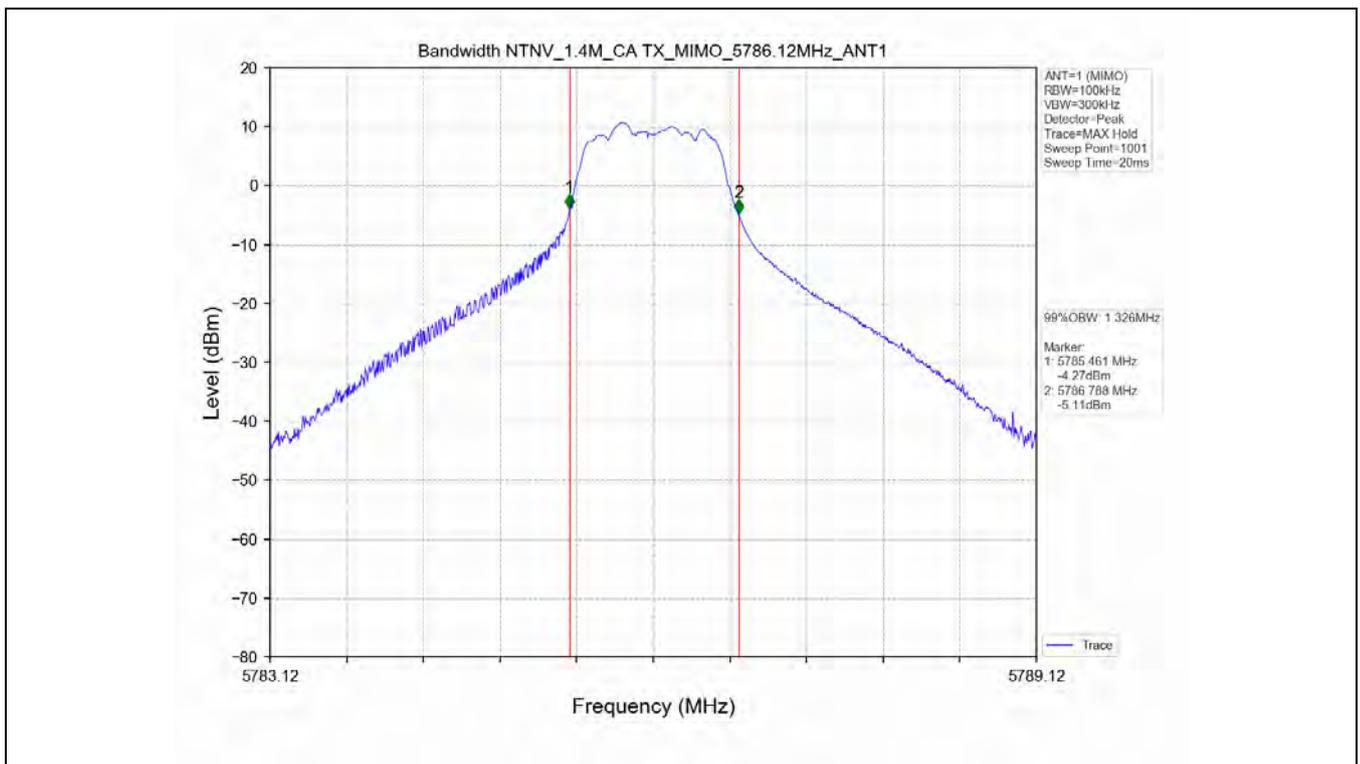
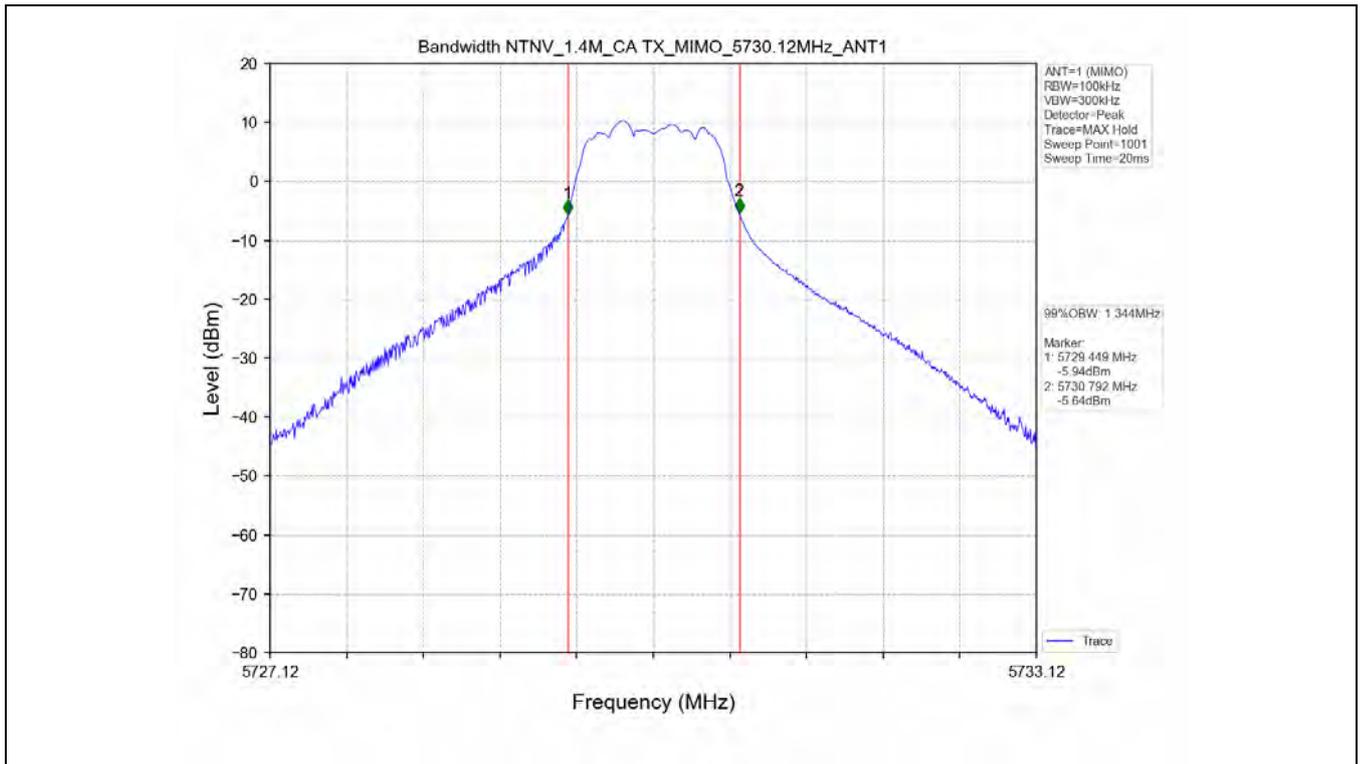
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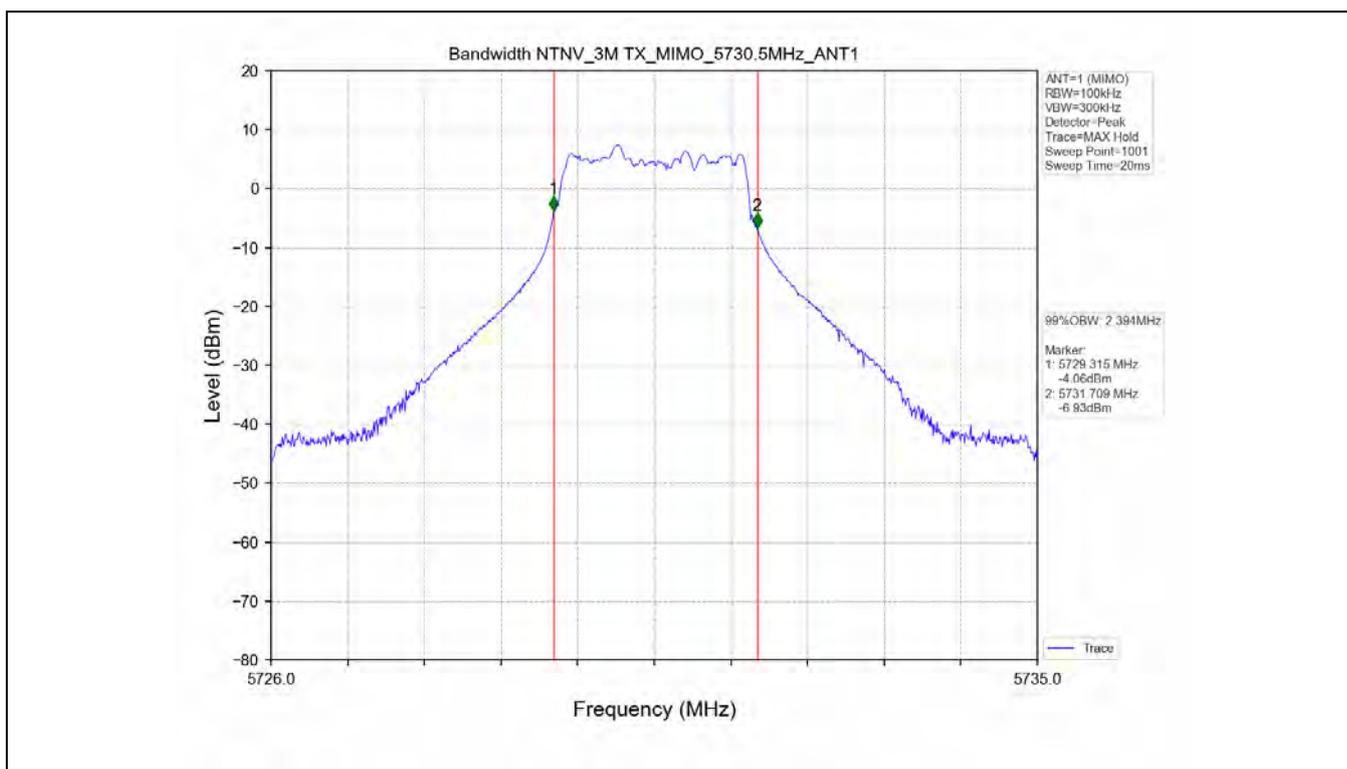
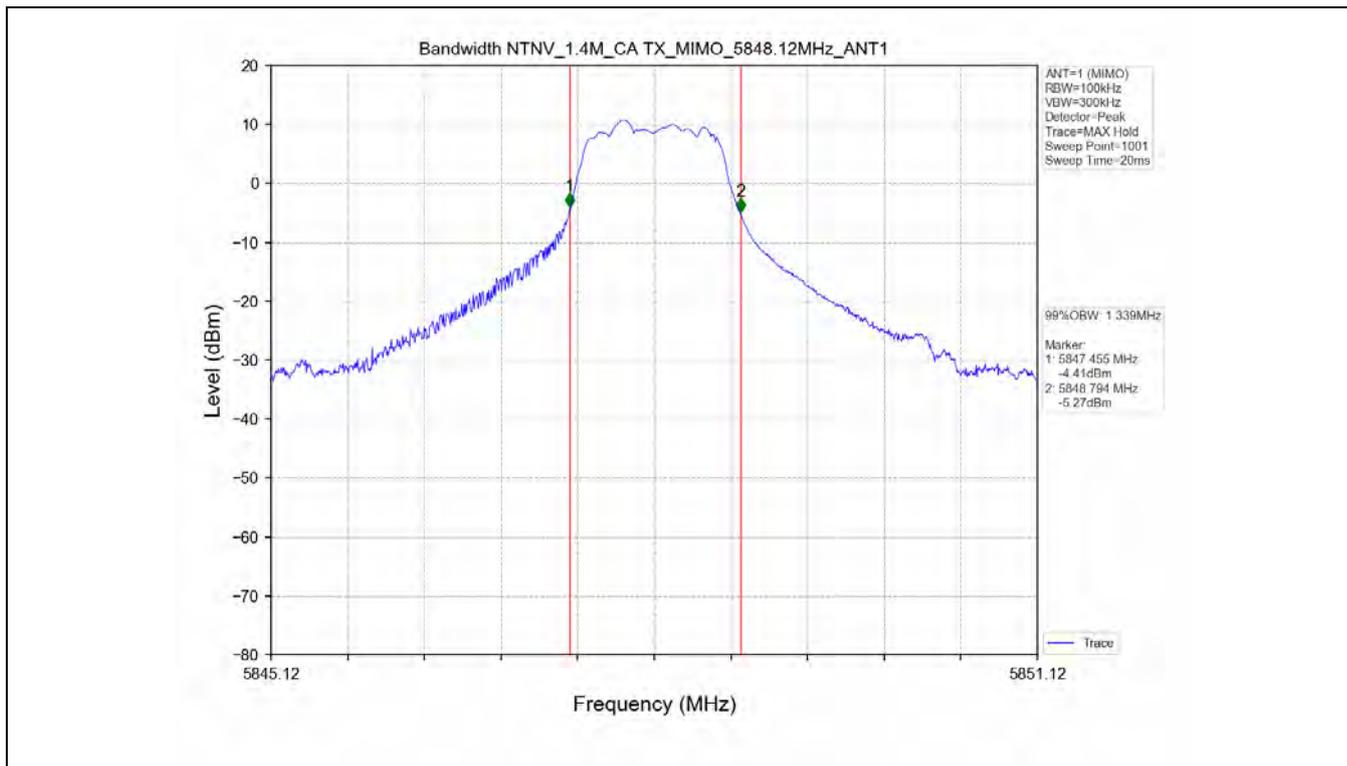
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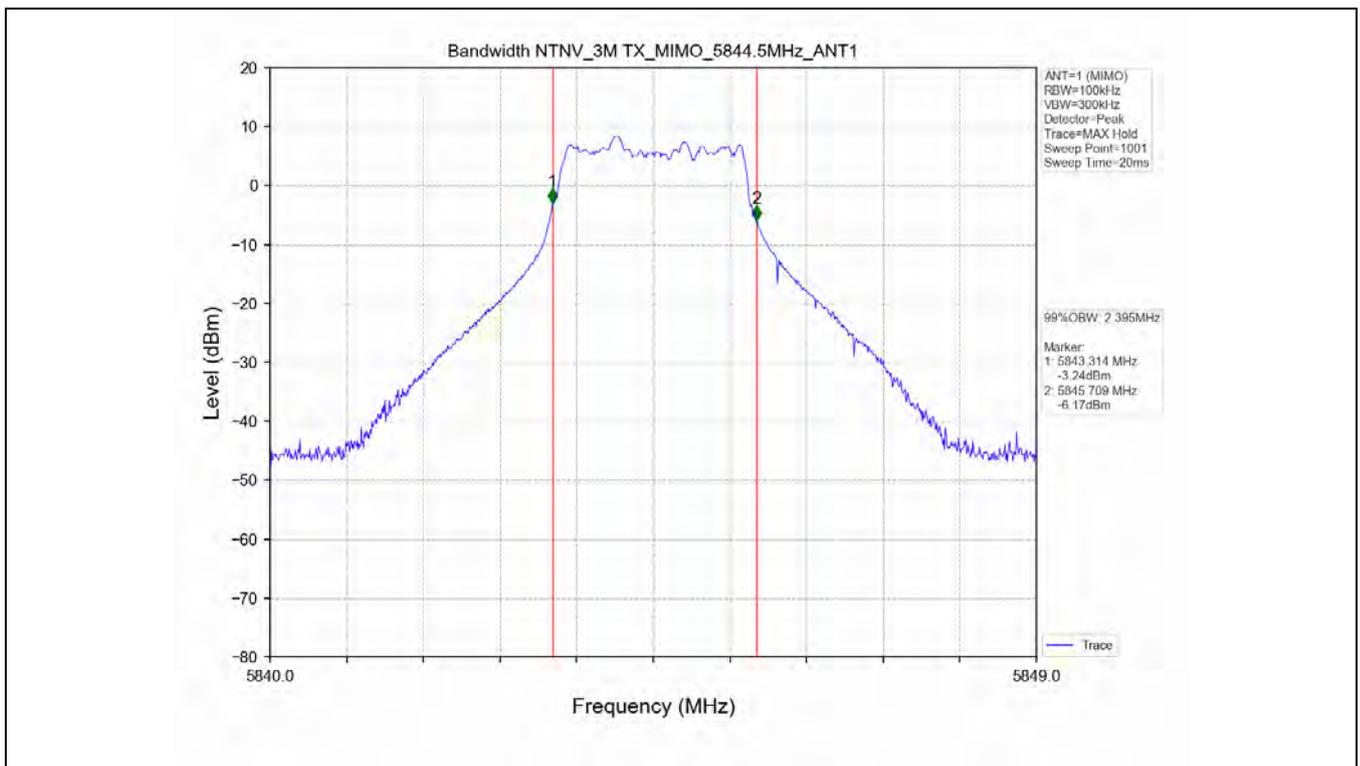
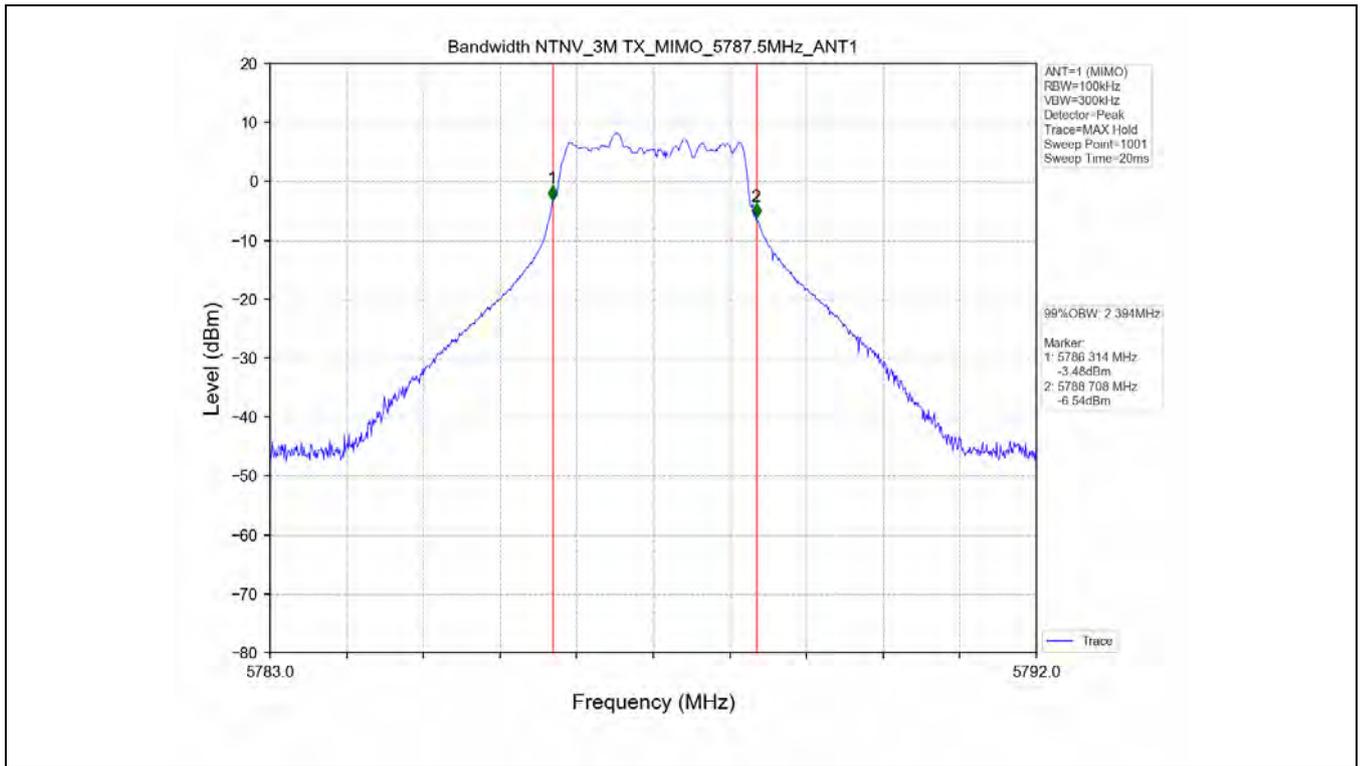
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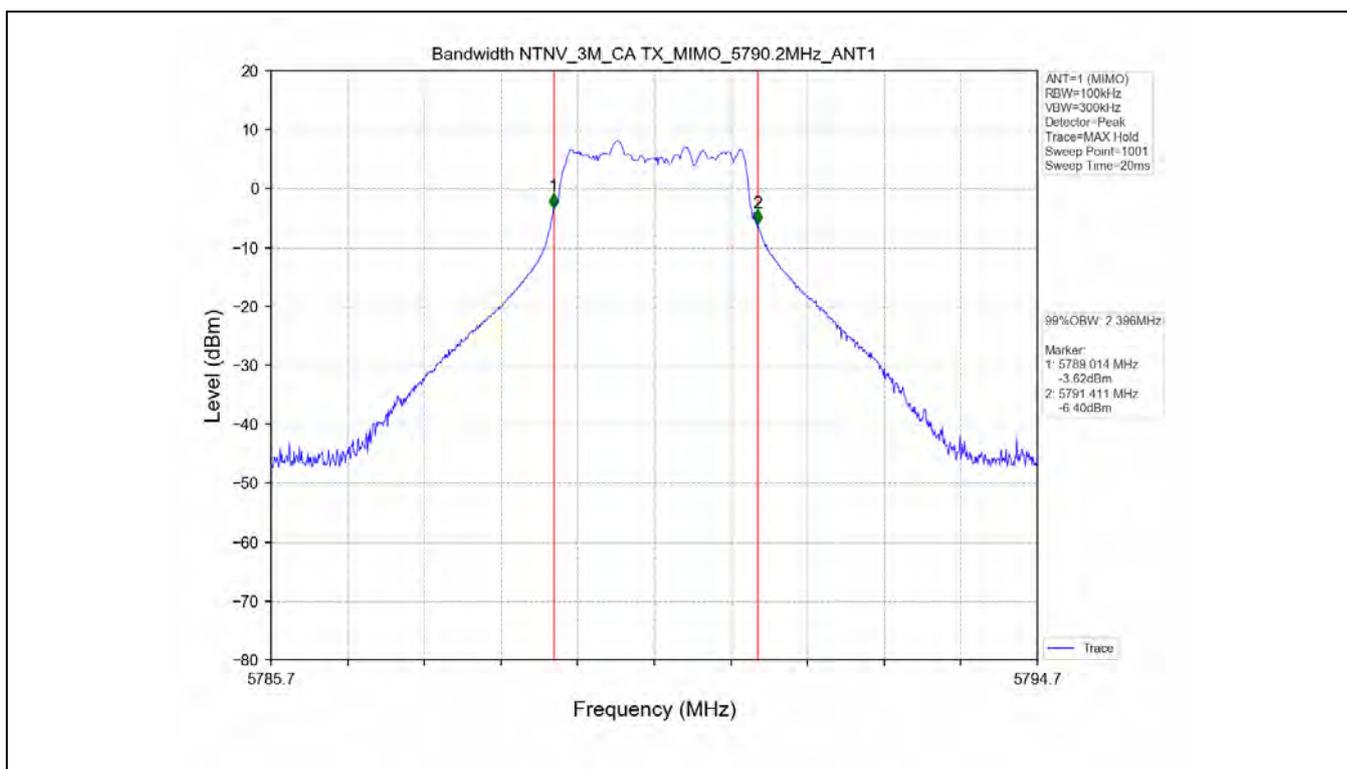
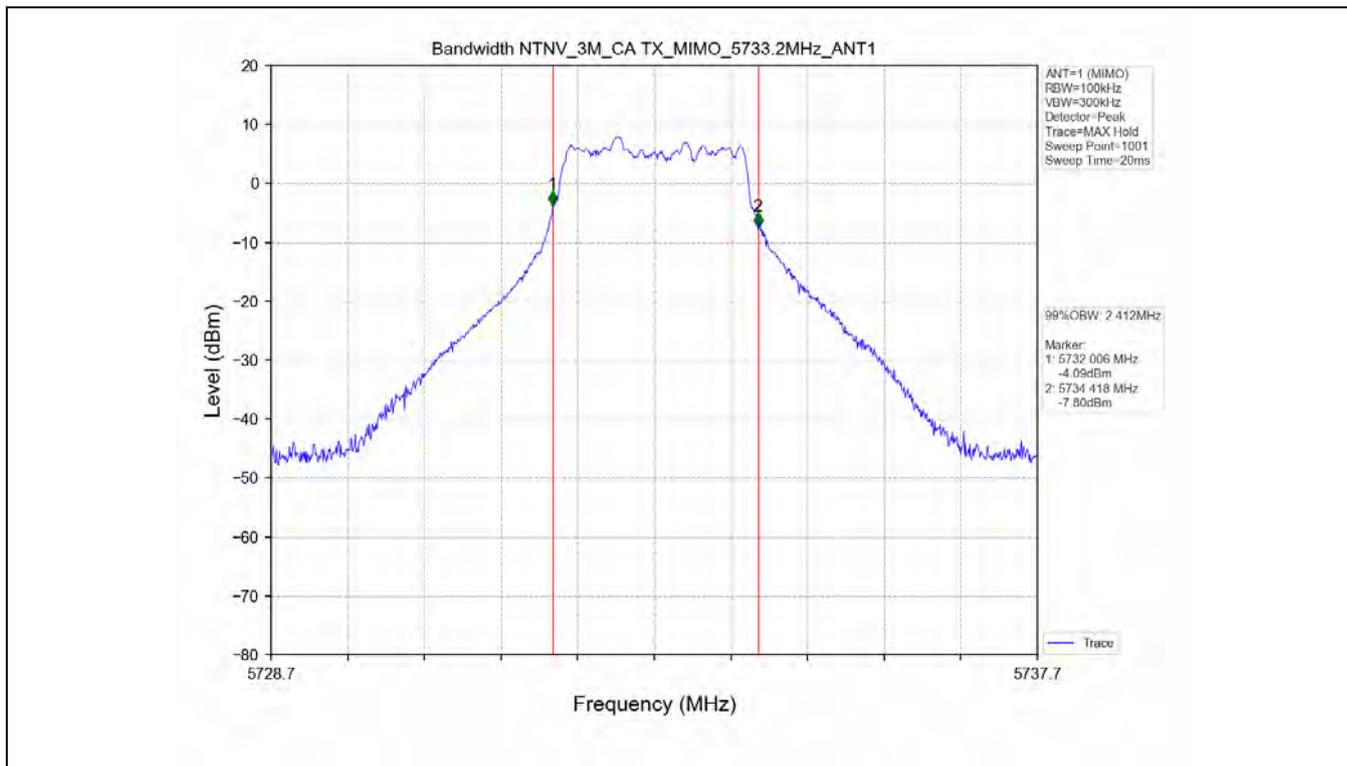
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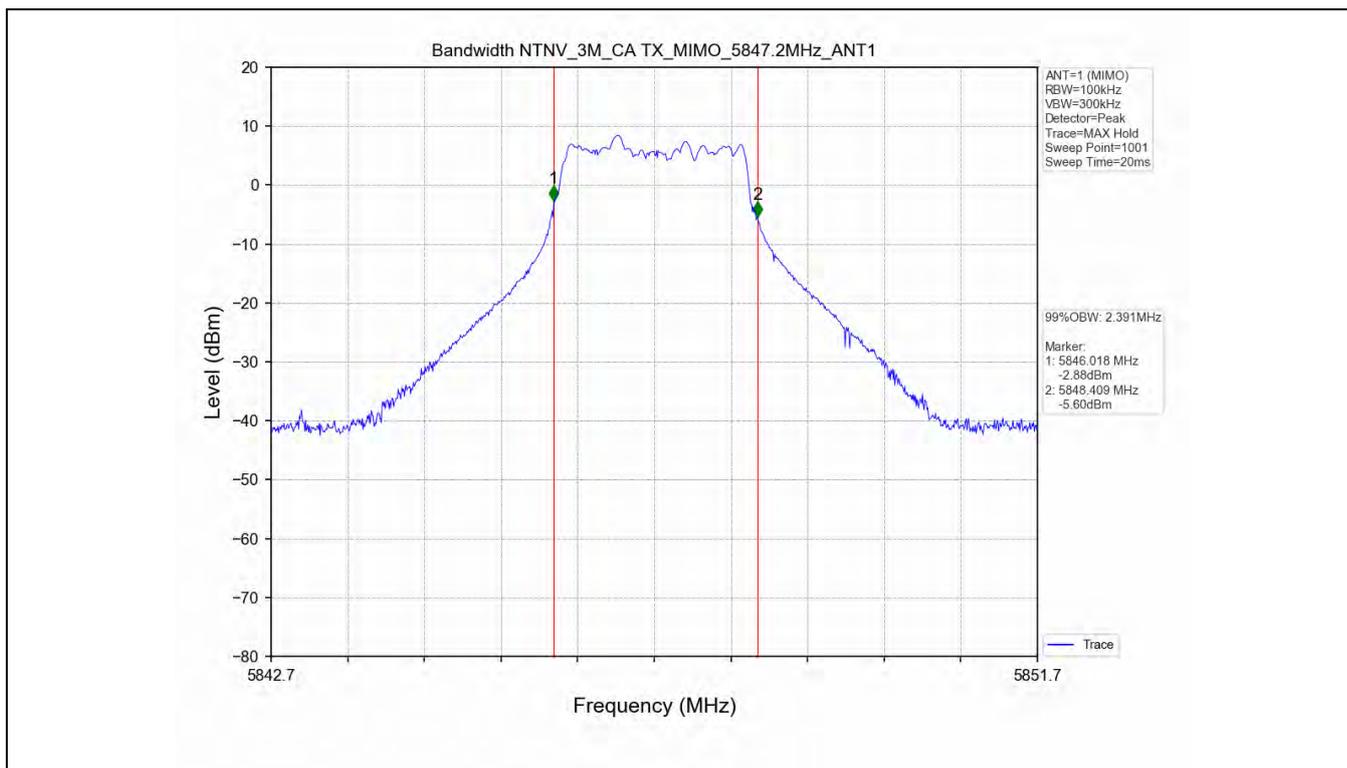
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3. Maximum Conducted Output Power

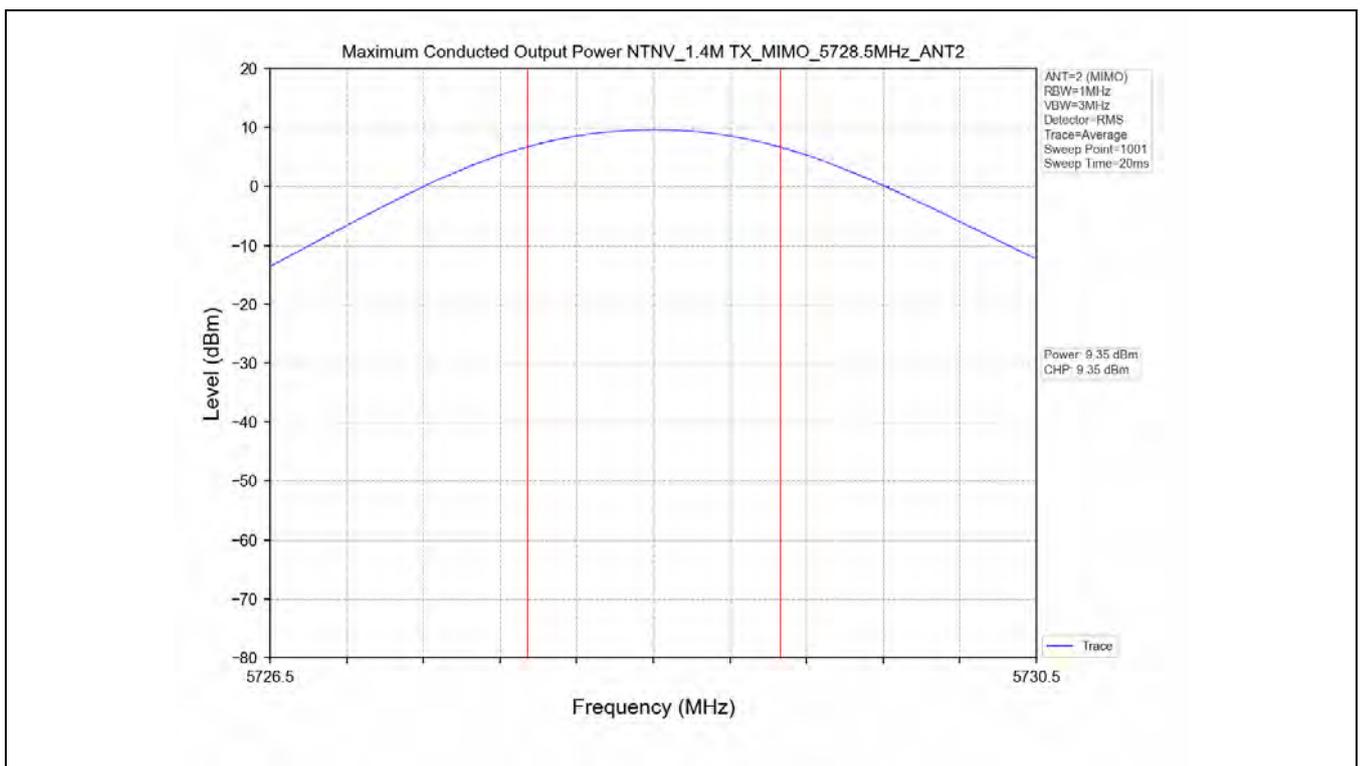
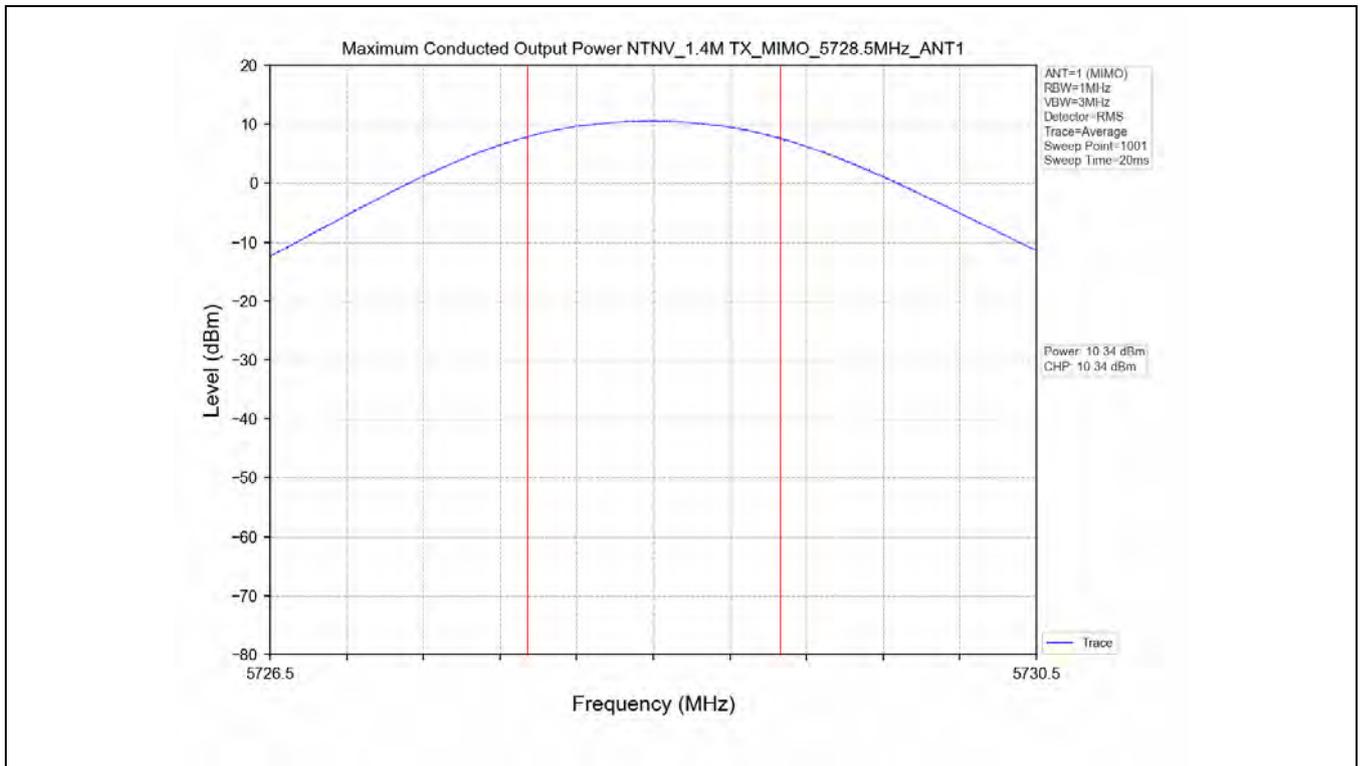
3.1 Test Result

Test Mode	Frequency (MHz)	Tx Type	Measured Output Power (dBm)			Limit (dBm)	Verdict
			Ant 1	Ant 2	Total		
1.4M TX	5728.5	MIMO	10.34	9.35	12.88	≤28.49	PASS
	5786.5	MIMO	10.72	11.11	13.93	≤28.49	PASS
	5846.5	MIMO	11.51	11.05	14.30	≤28.49	PASS
1.4M_CA TX	5730.12	MIMO	9.89	10.47	13.20	≤28.49	PASS
	5786.12	MIMO	10.23	10.96	13.62	≤28.49	PASS
	5848.12	MIMO	10.35	10.15	13.26	≤28.49	PASS
3M TX	5730.5	MIMO	10.04	11.05	13.58	≤28.49	PASS
	5787.5	MIMO	10.88	11.57	14.25	≤28.49	PASS
	5844.5	MIMO	11.13	11.57	14.37	≤28.49	PASS
3M_CA TX	5733.2	MIMO	10.48	11.08	13.80	≤28.49	PASS
	5790.2	MIMO	10.80	11.58	14.22	≤28.49	PASS
	5847.2	MIMO	11.10	11.51	14.32	≤28.49	PASS



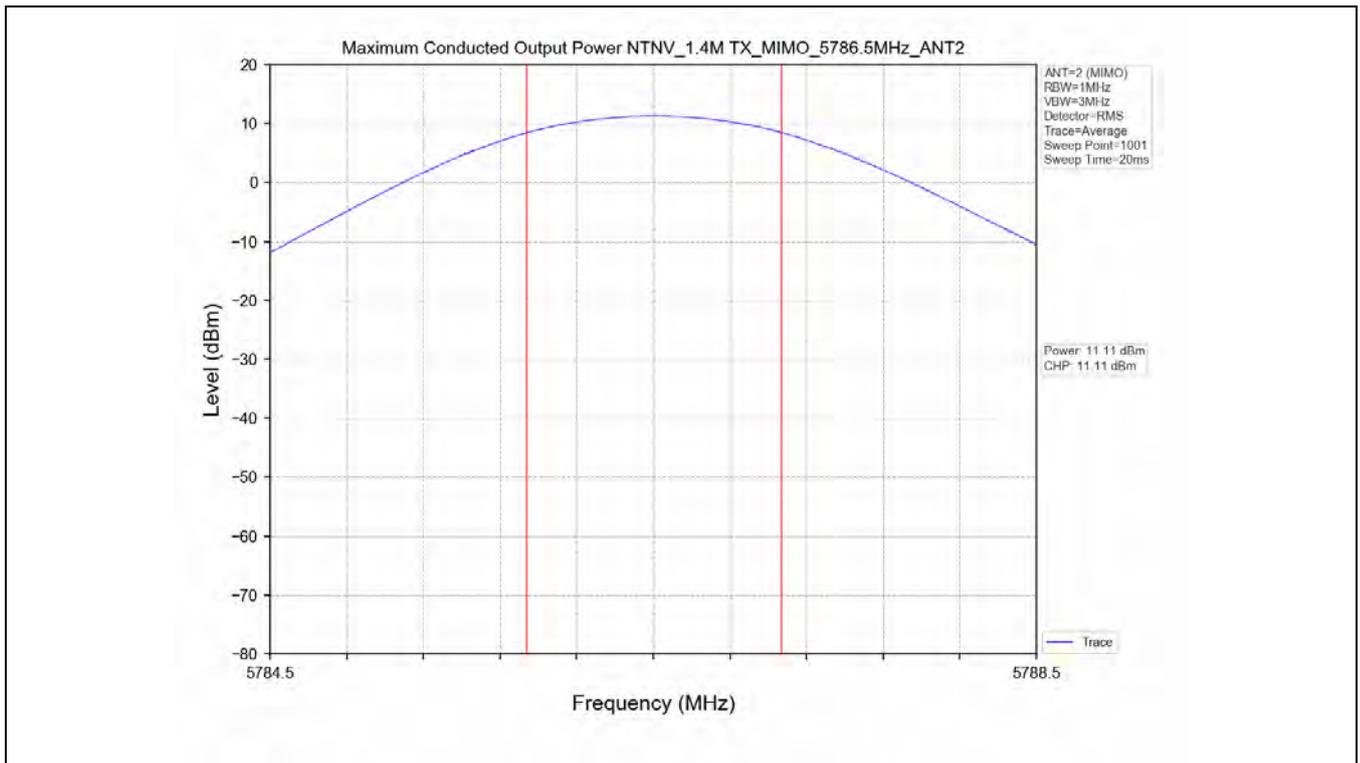
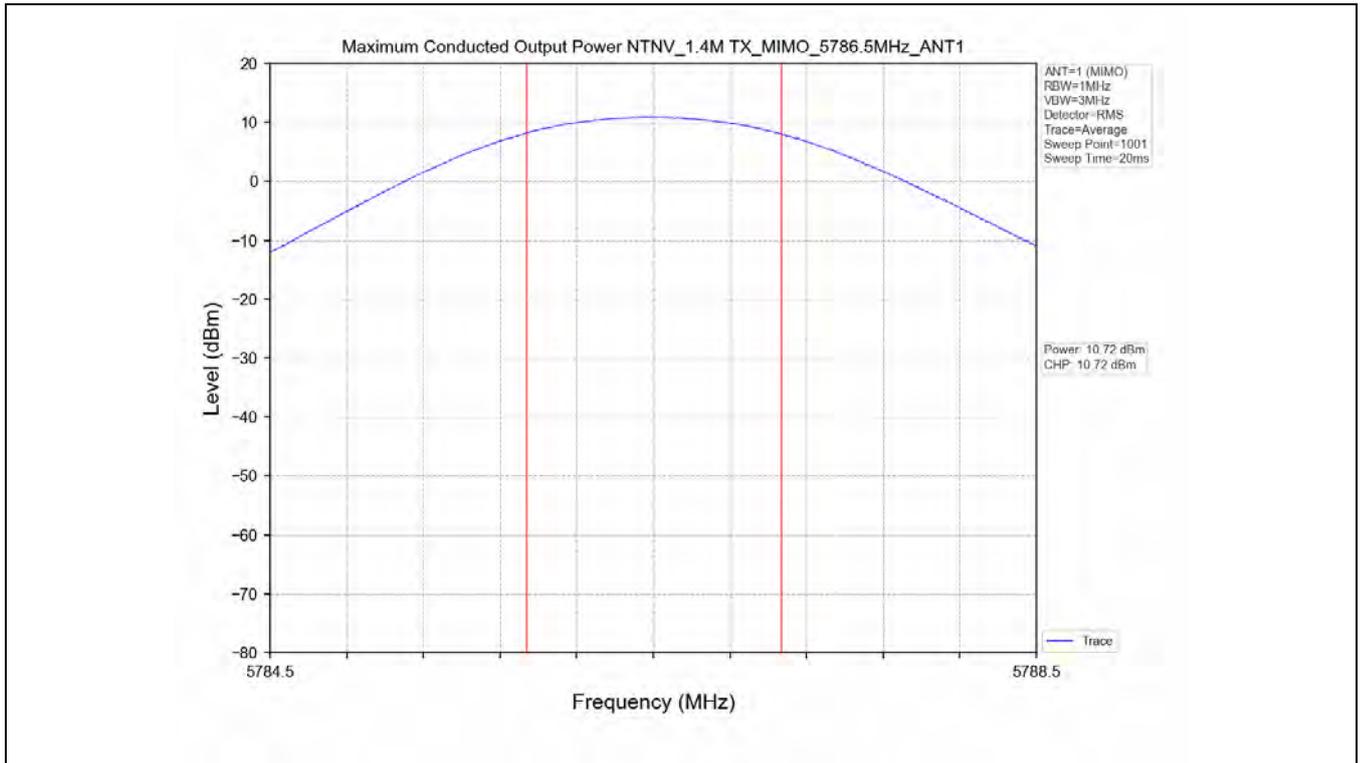
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3.2 Test Graph



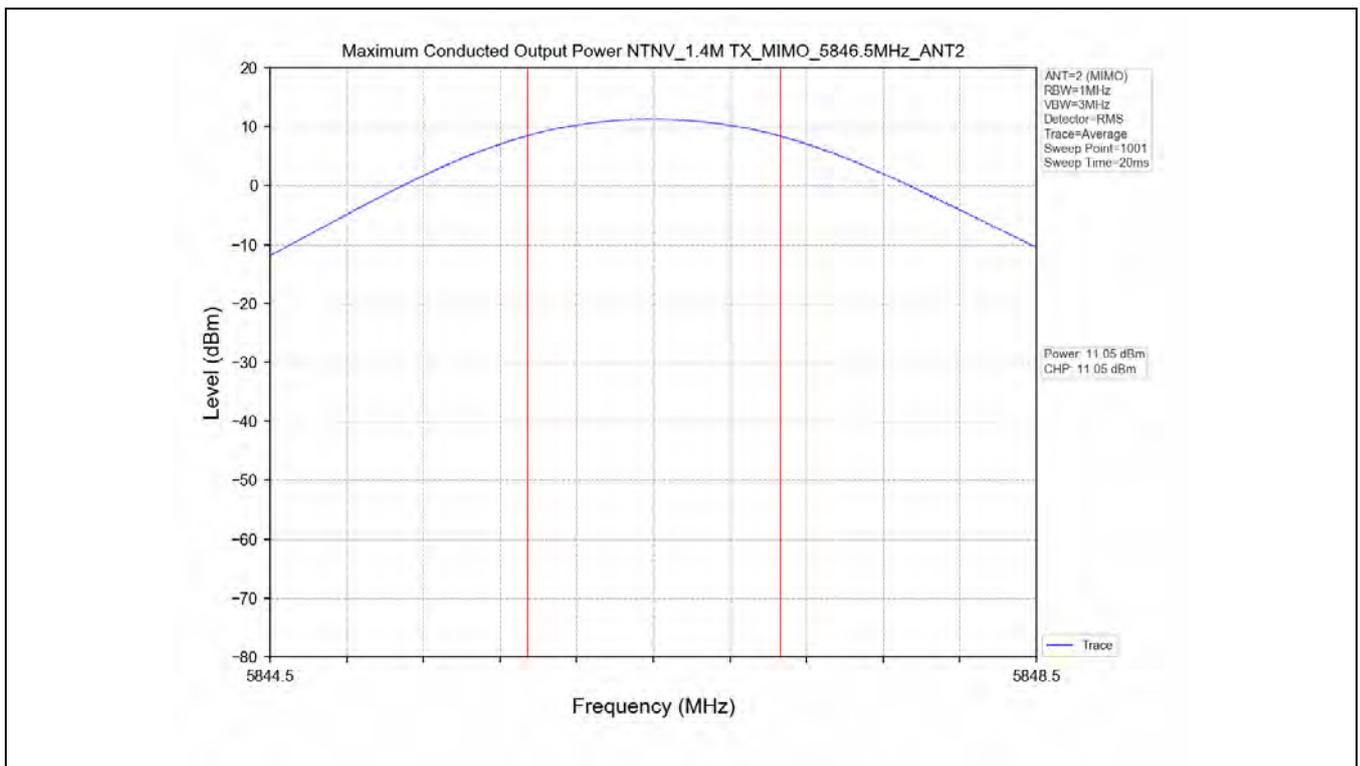
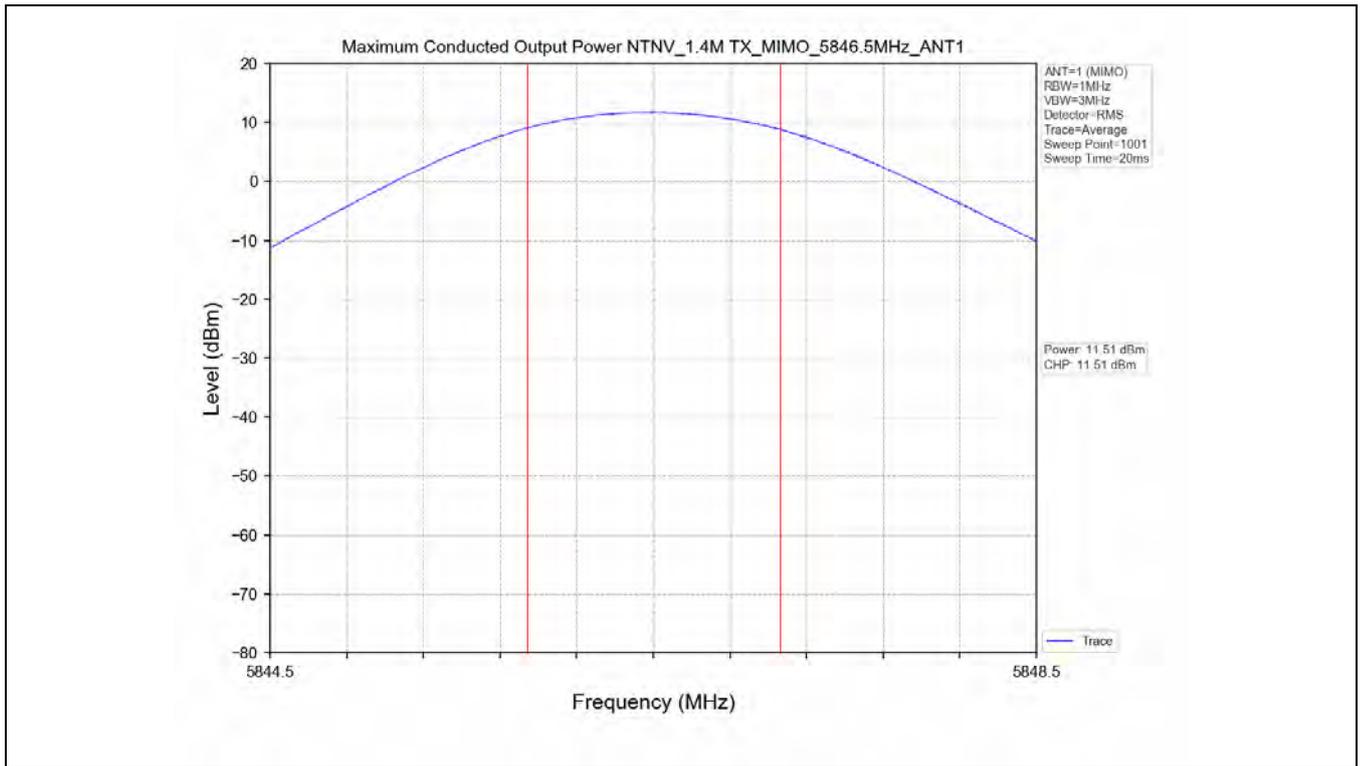
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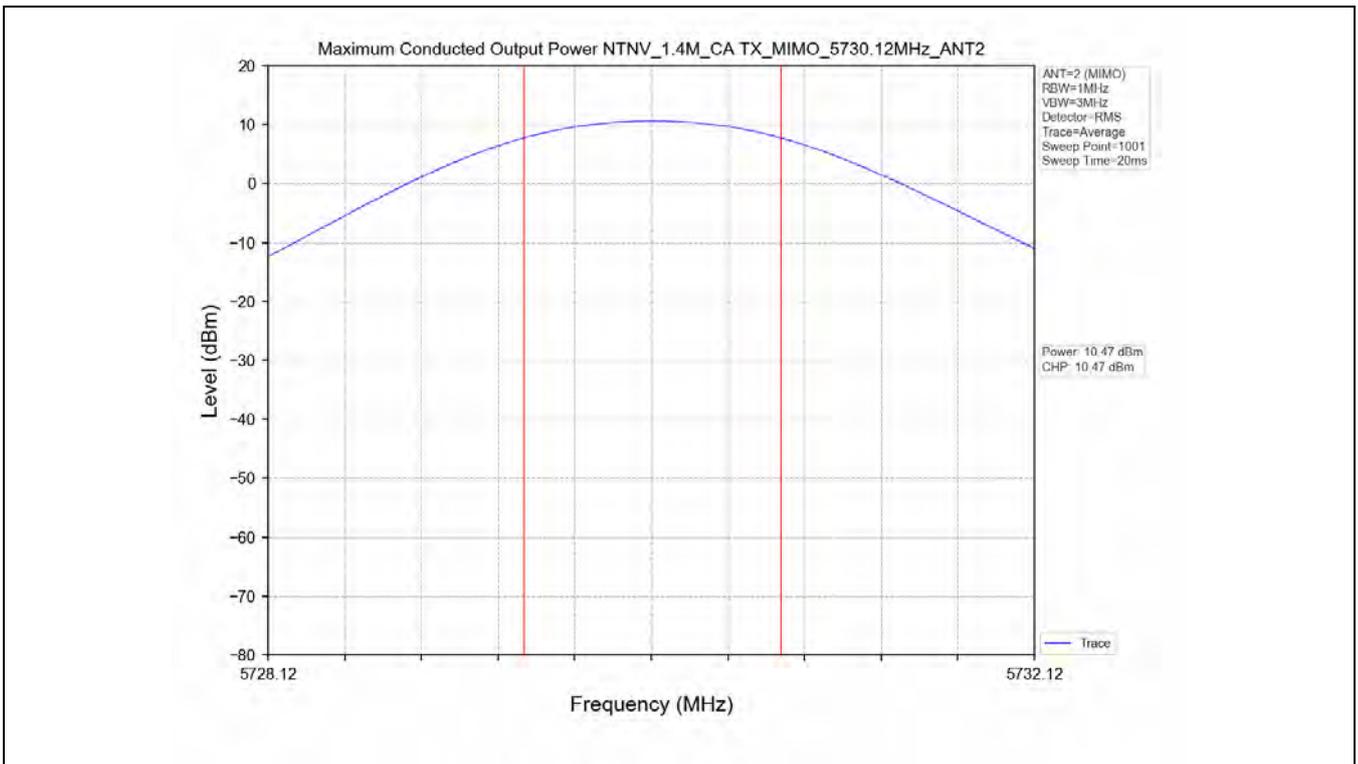
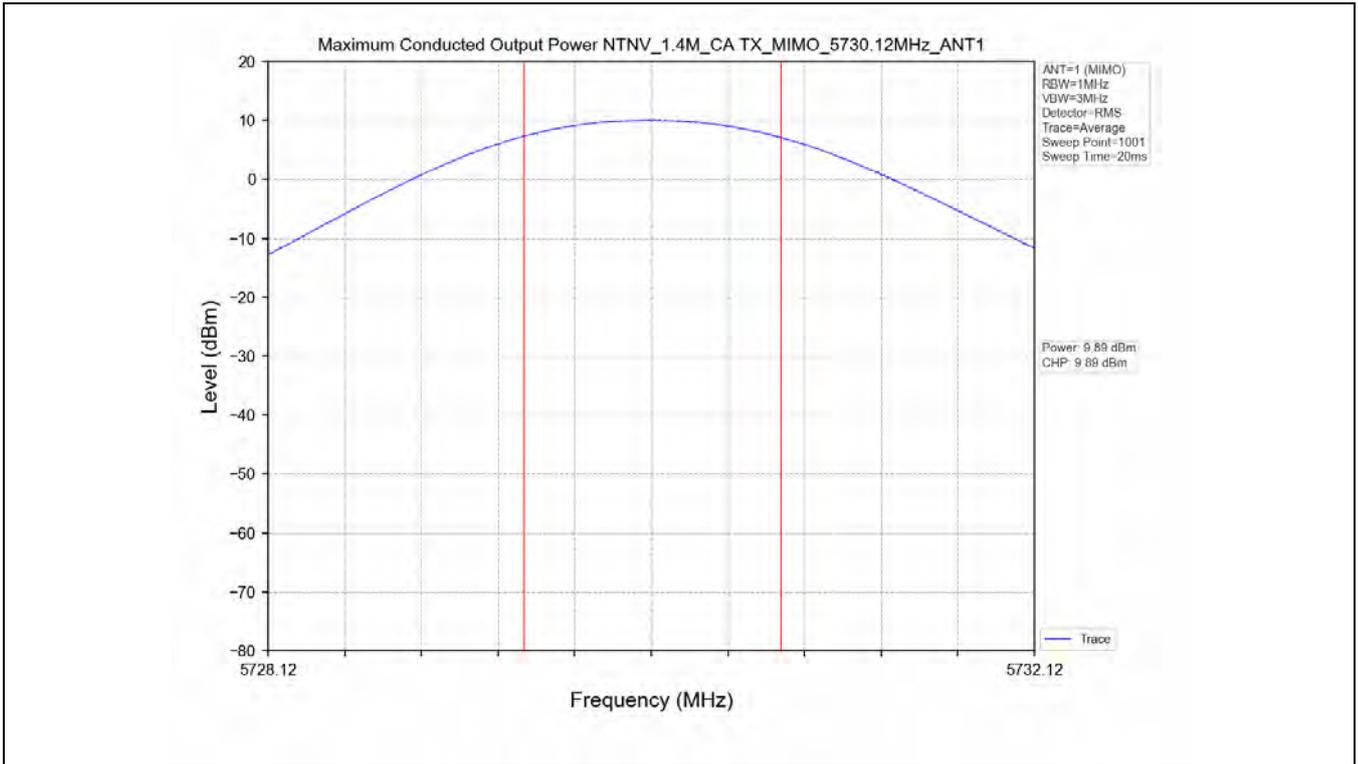
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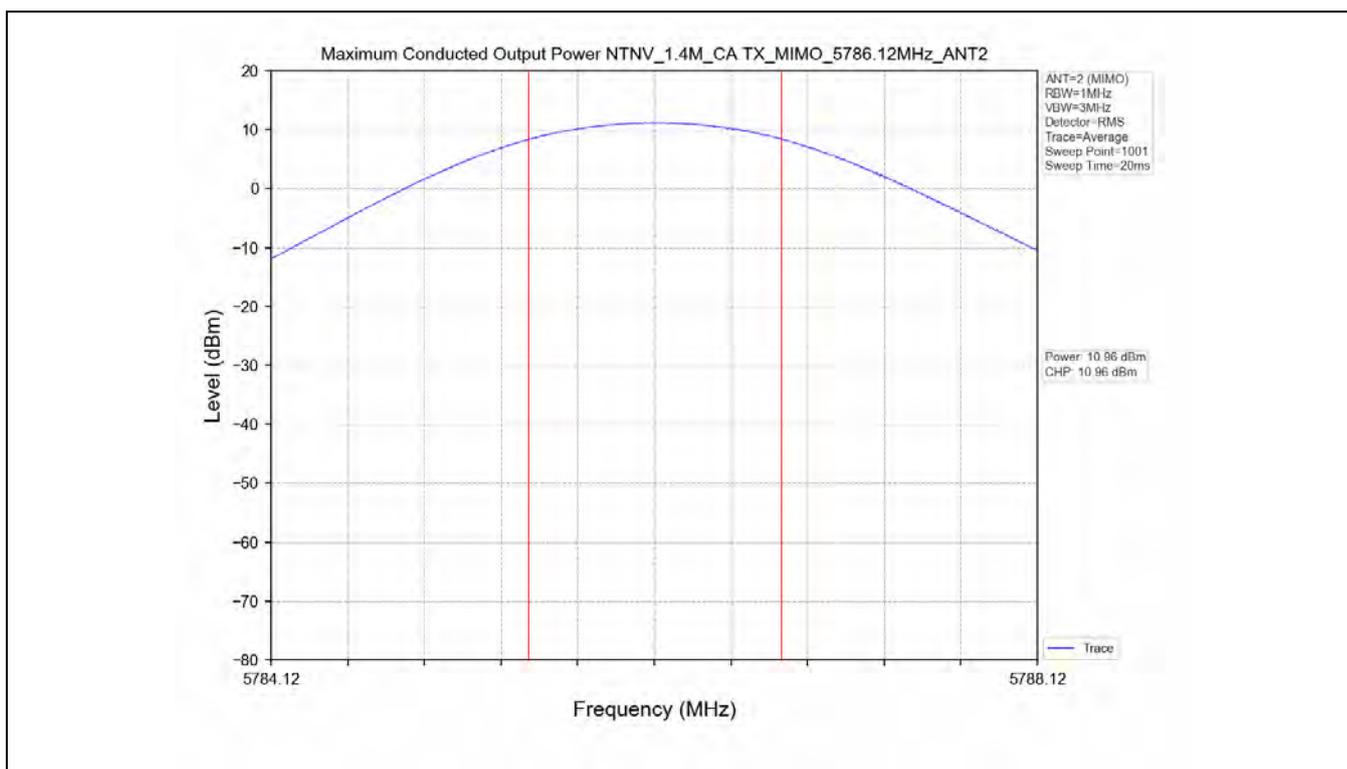
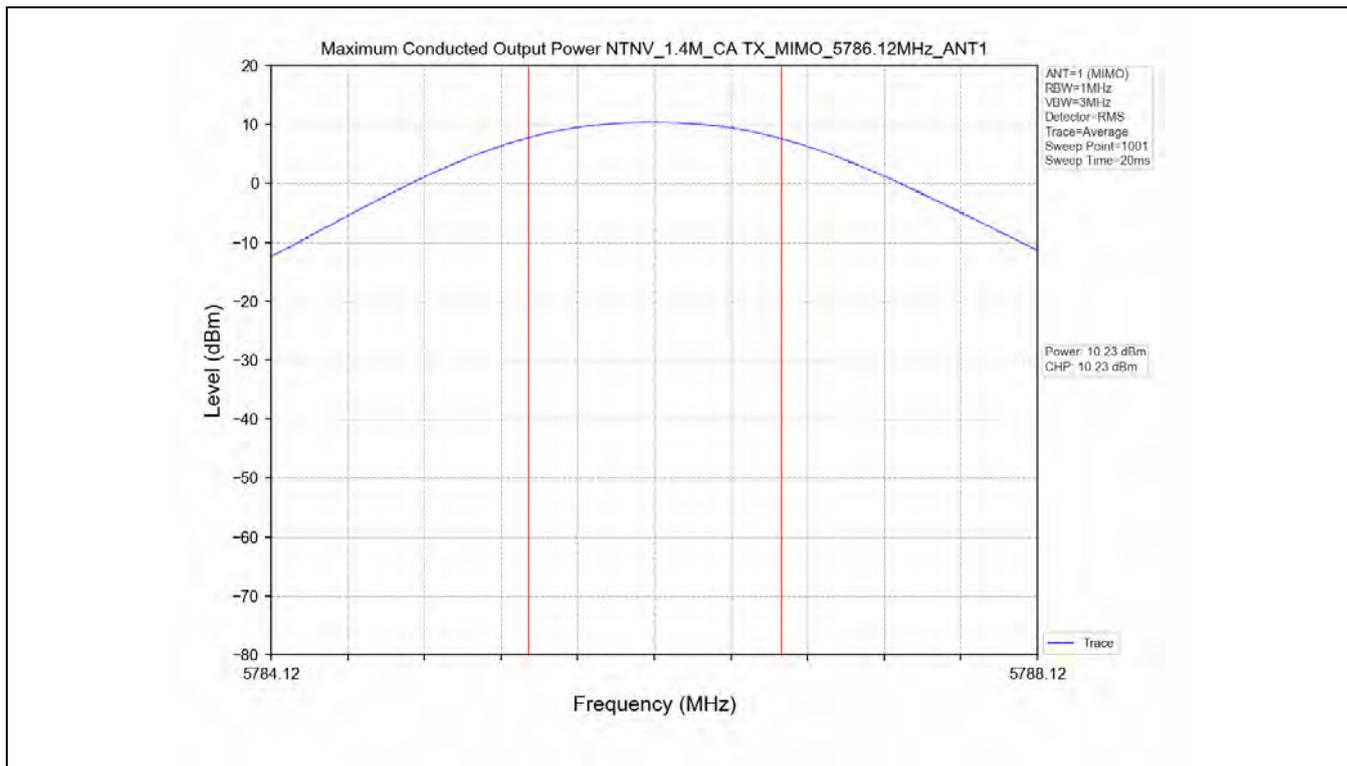
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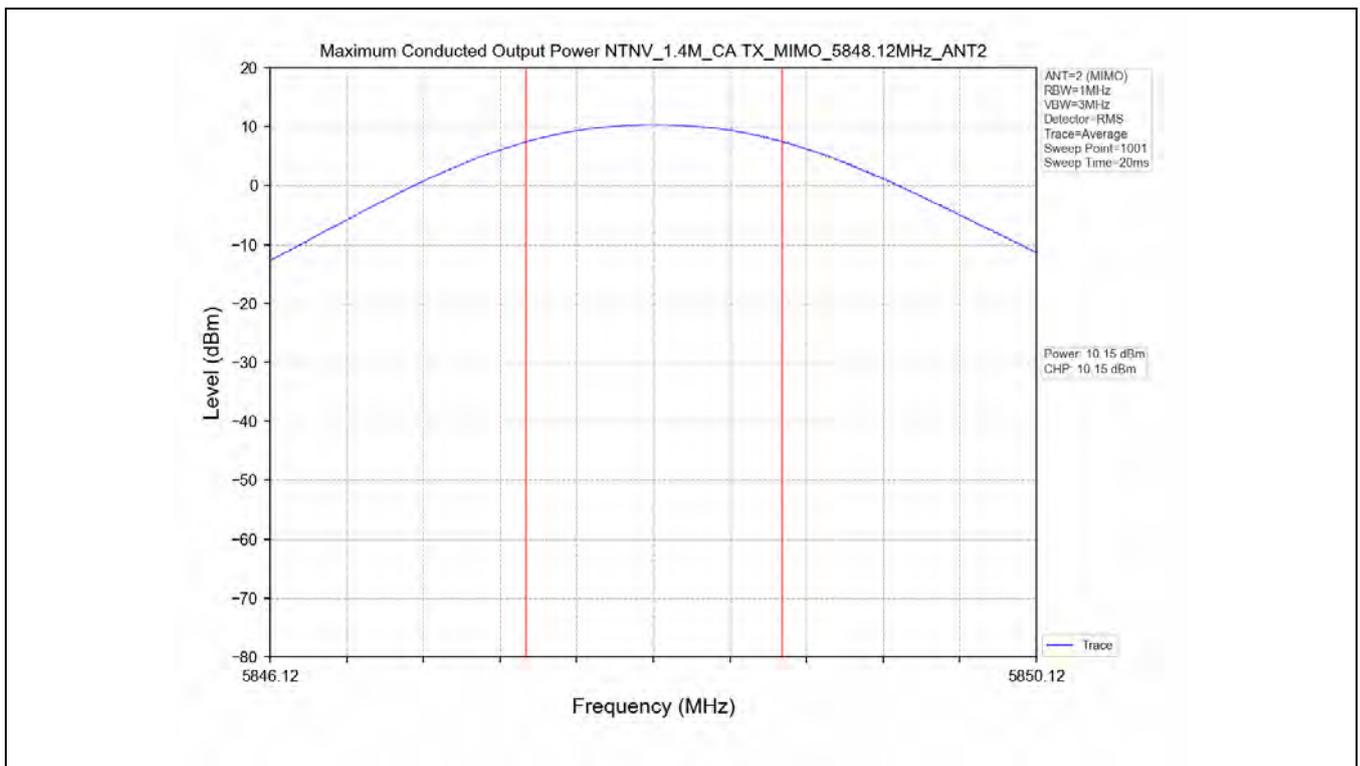
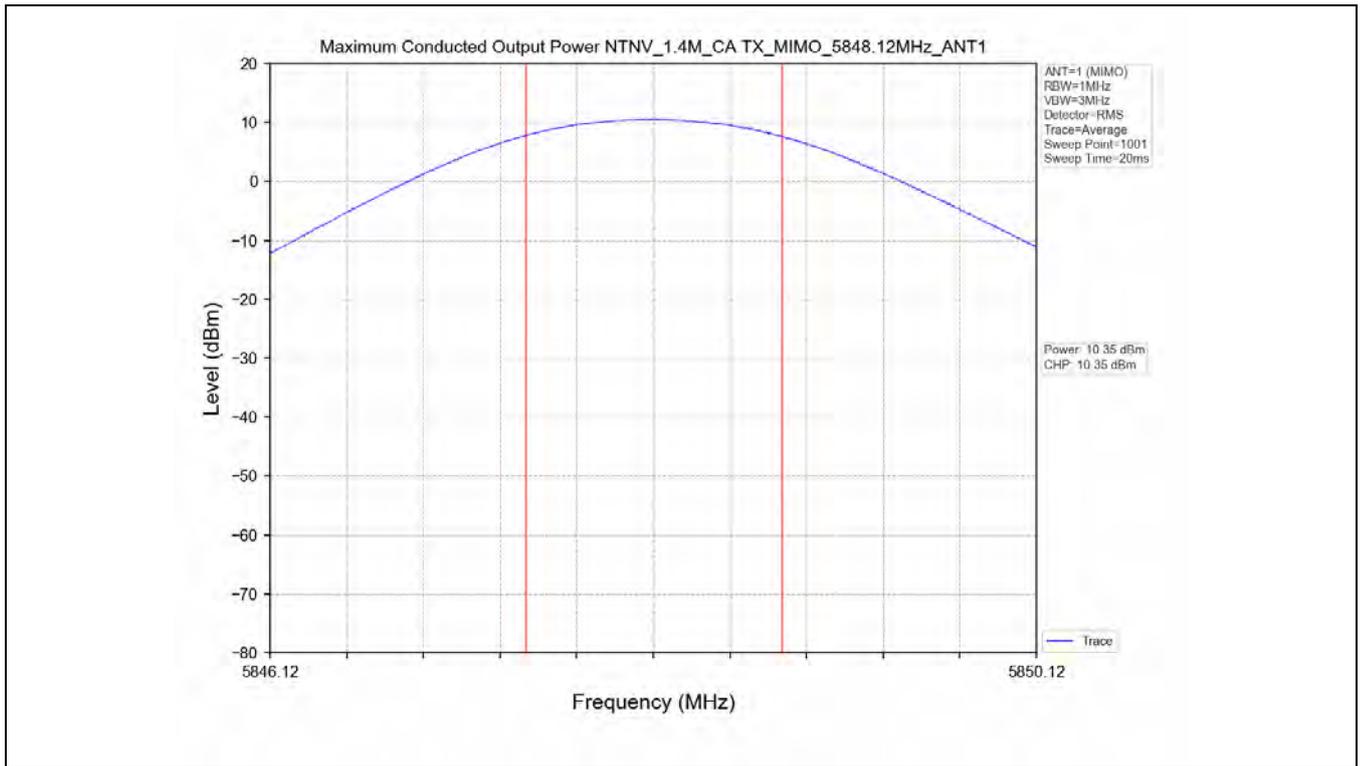
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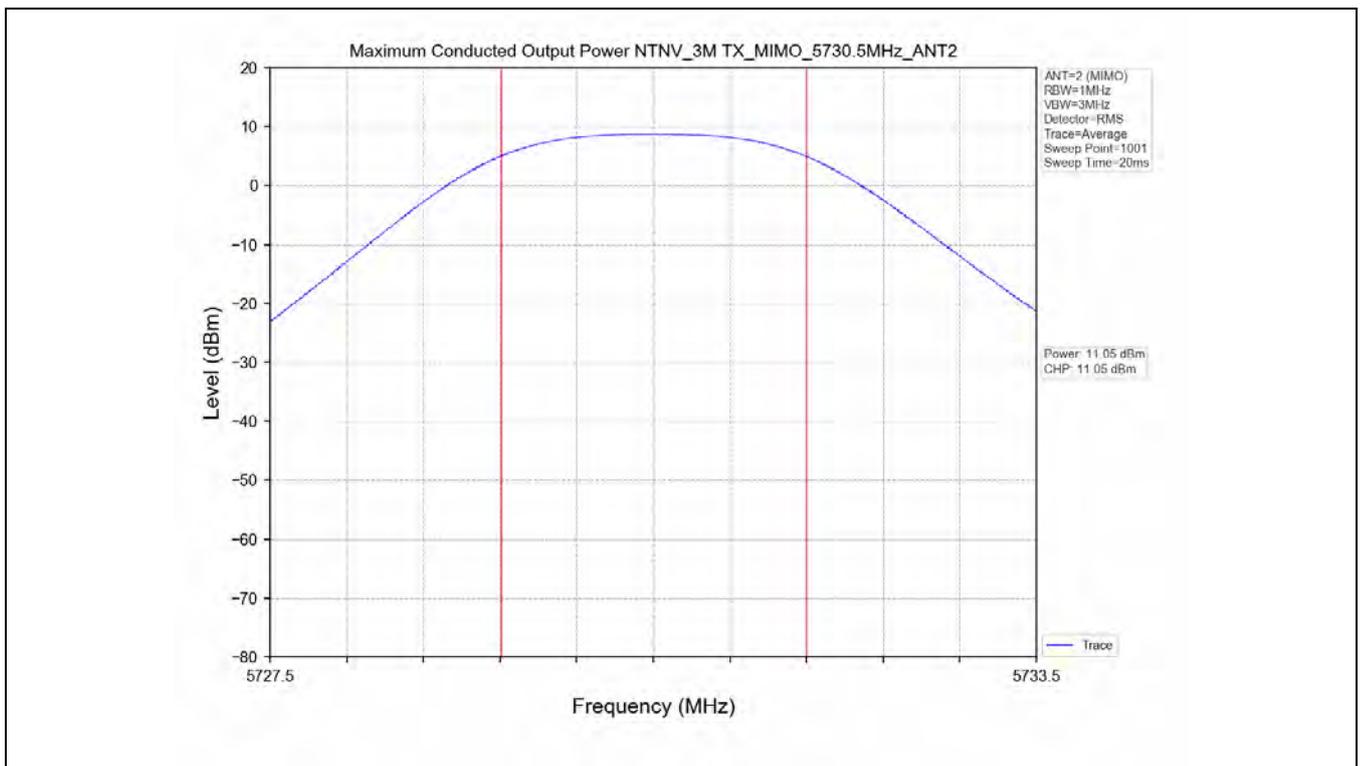
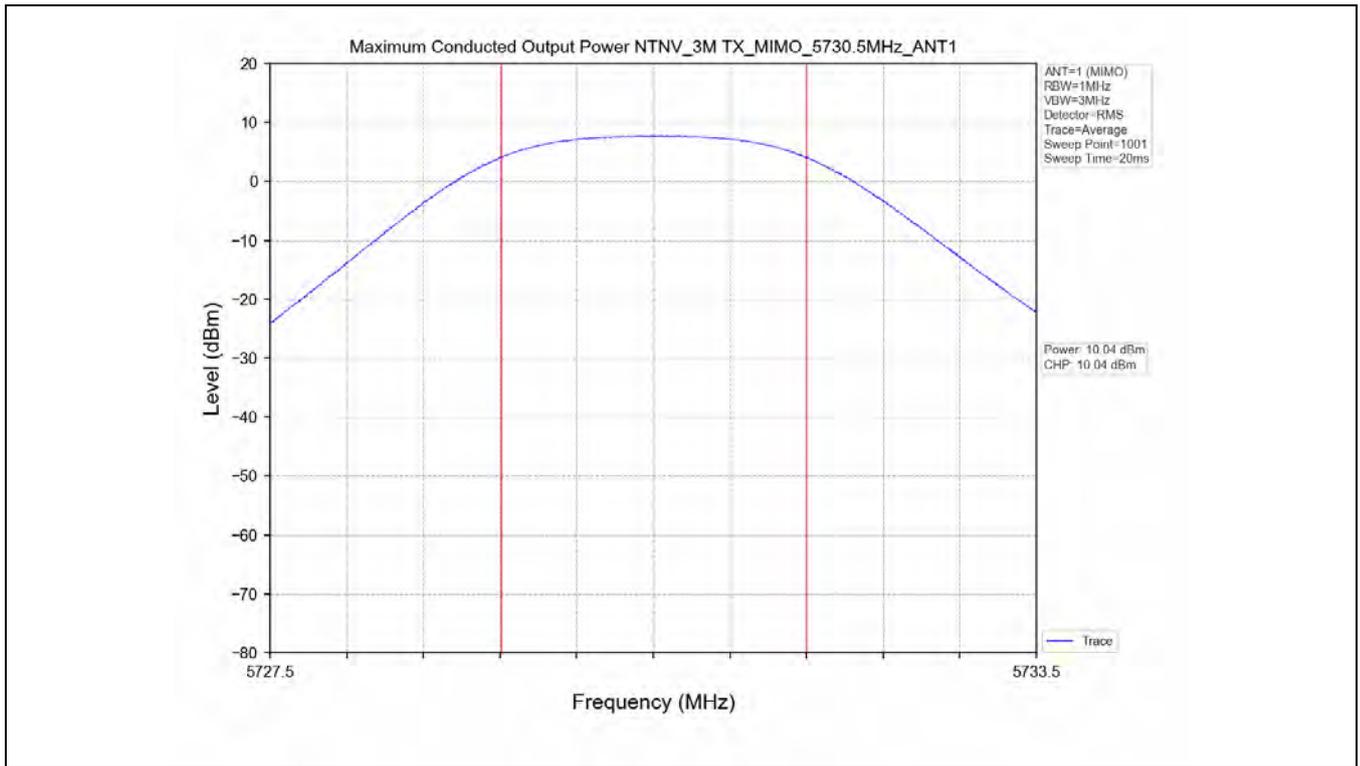
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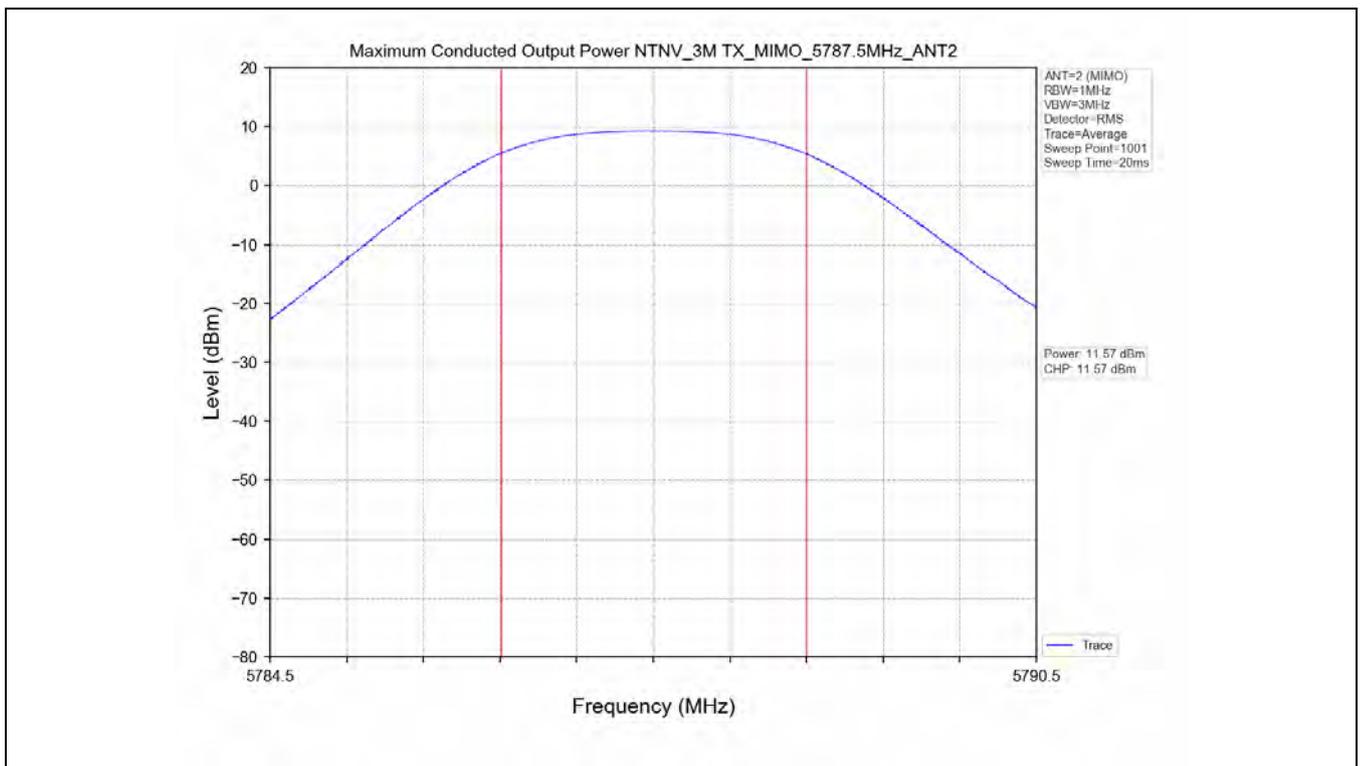
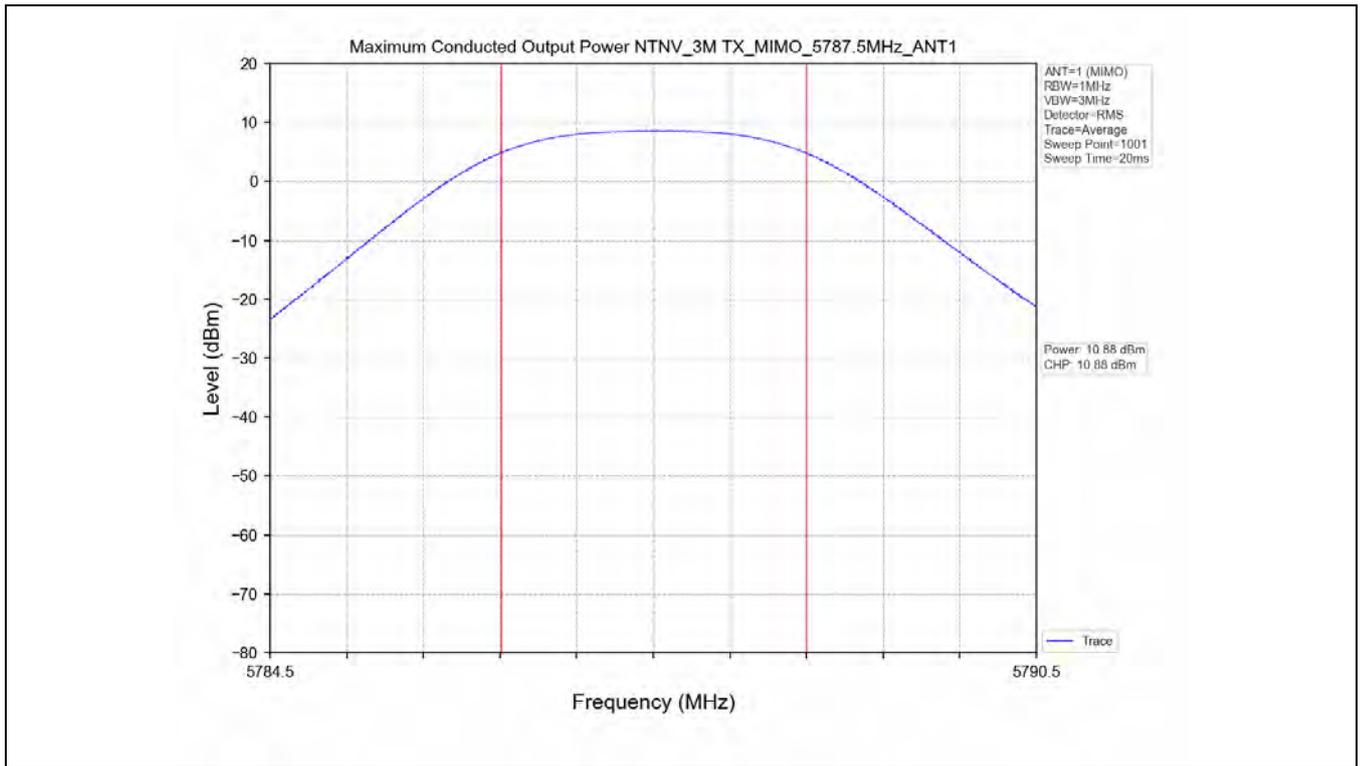
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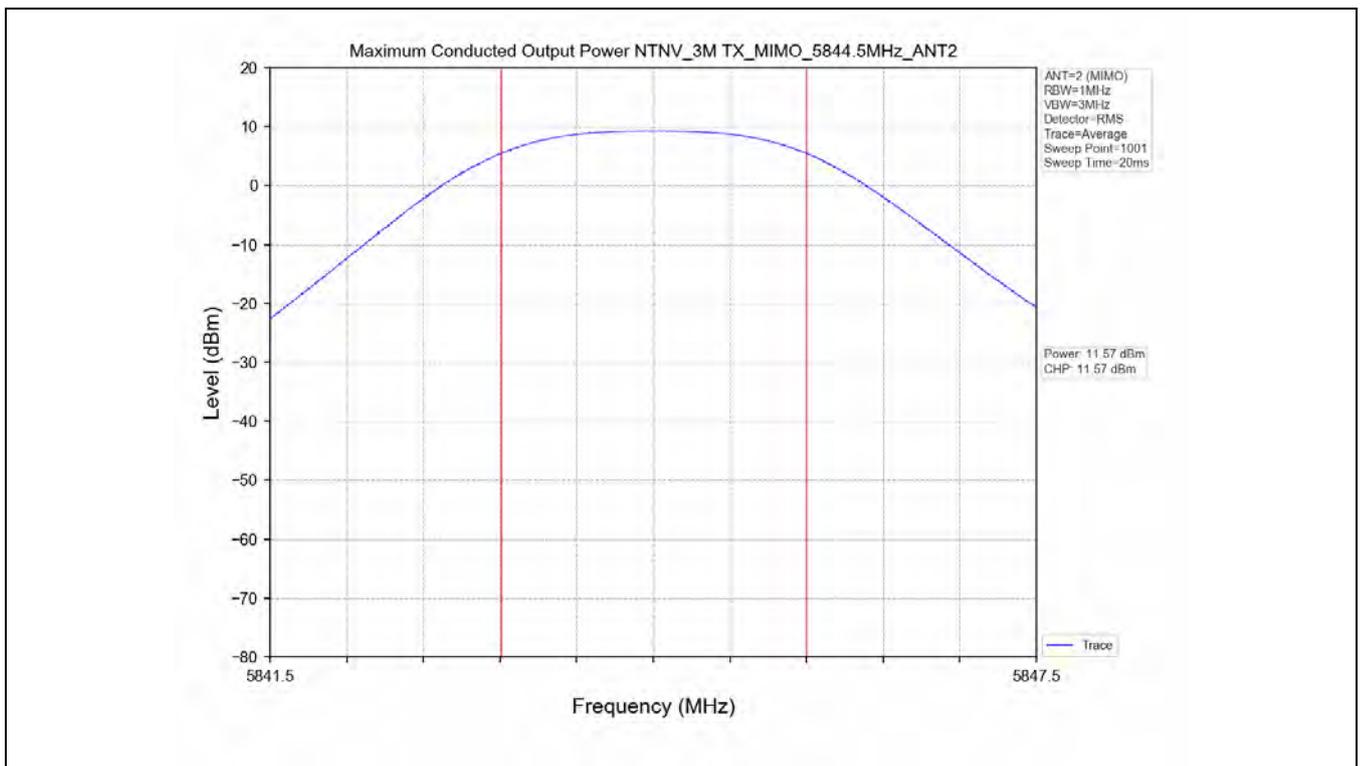
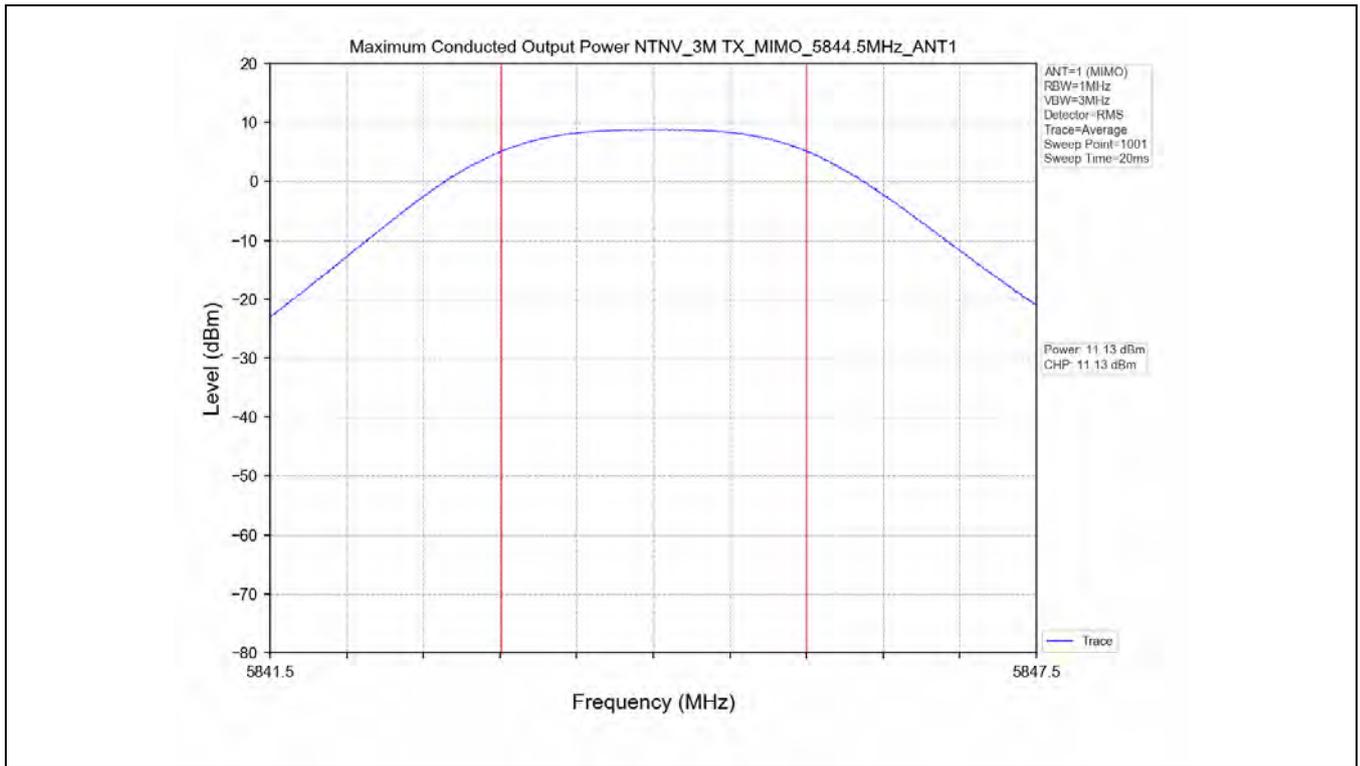
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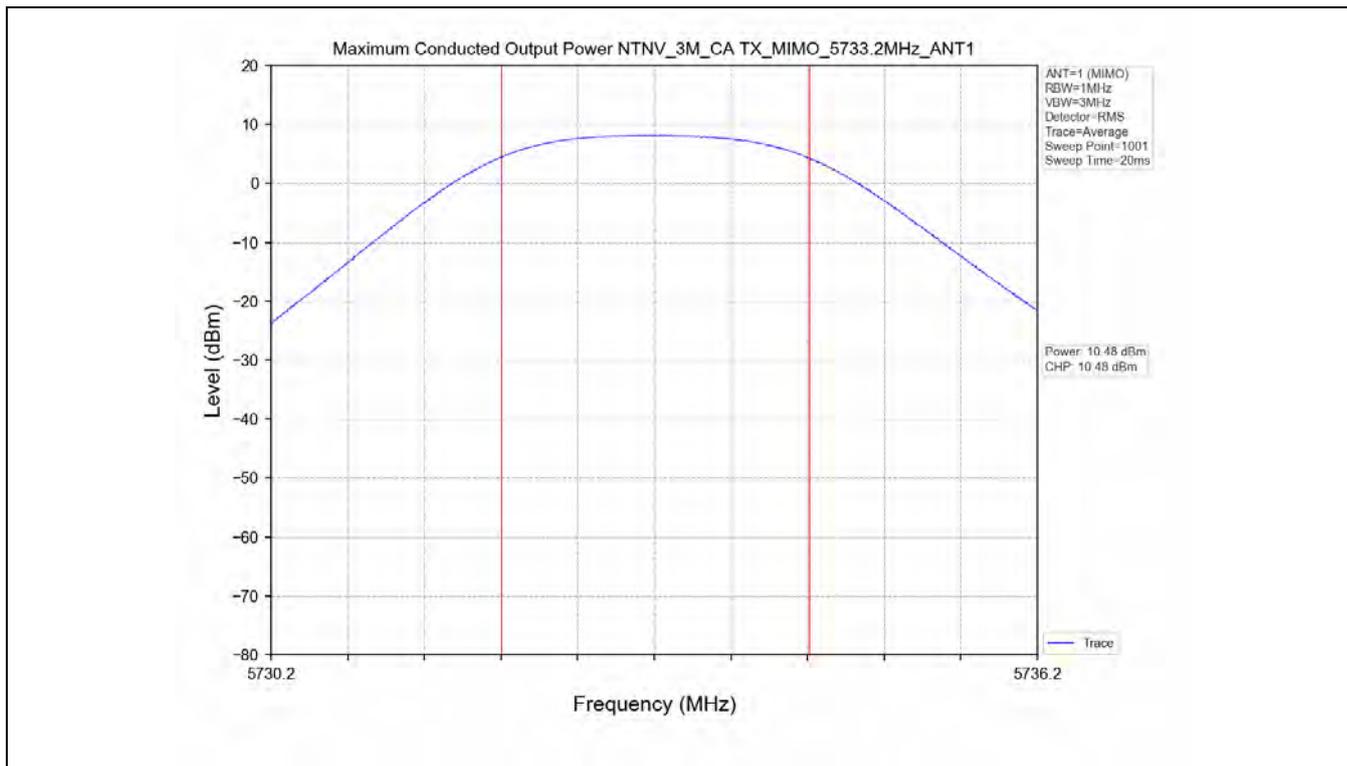
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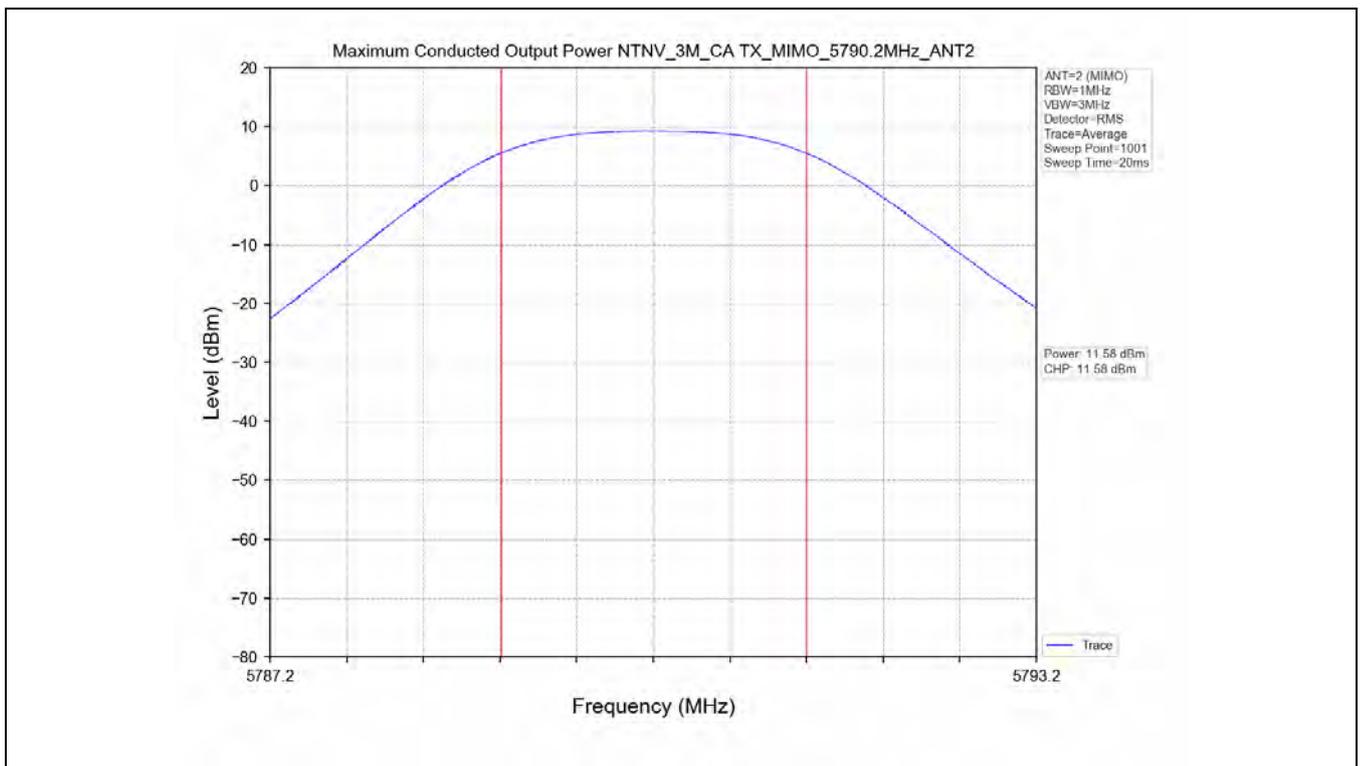
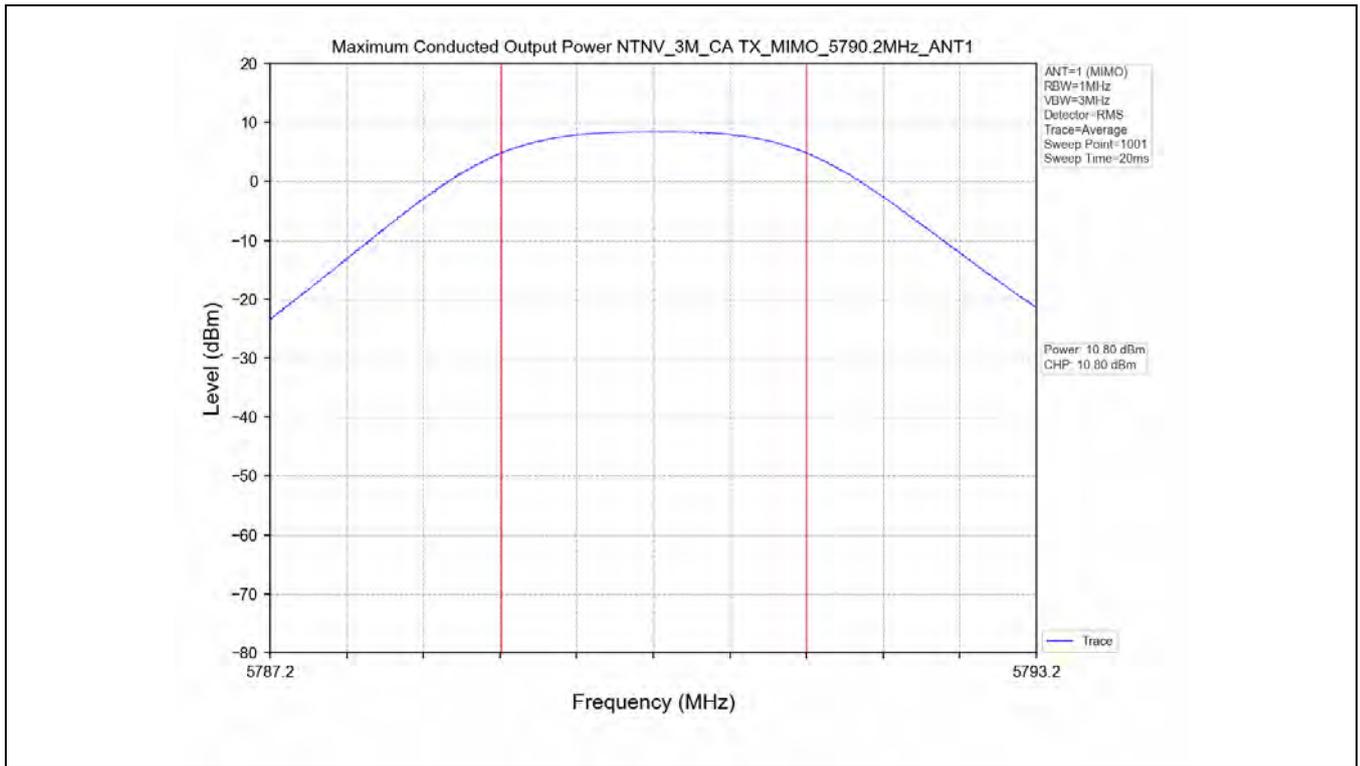
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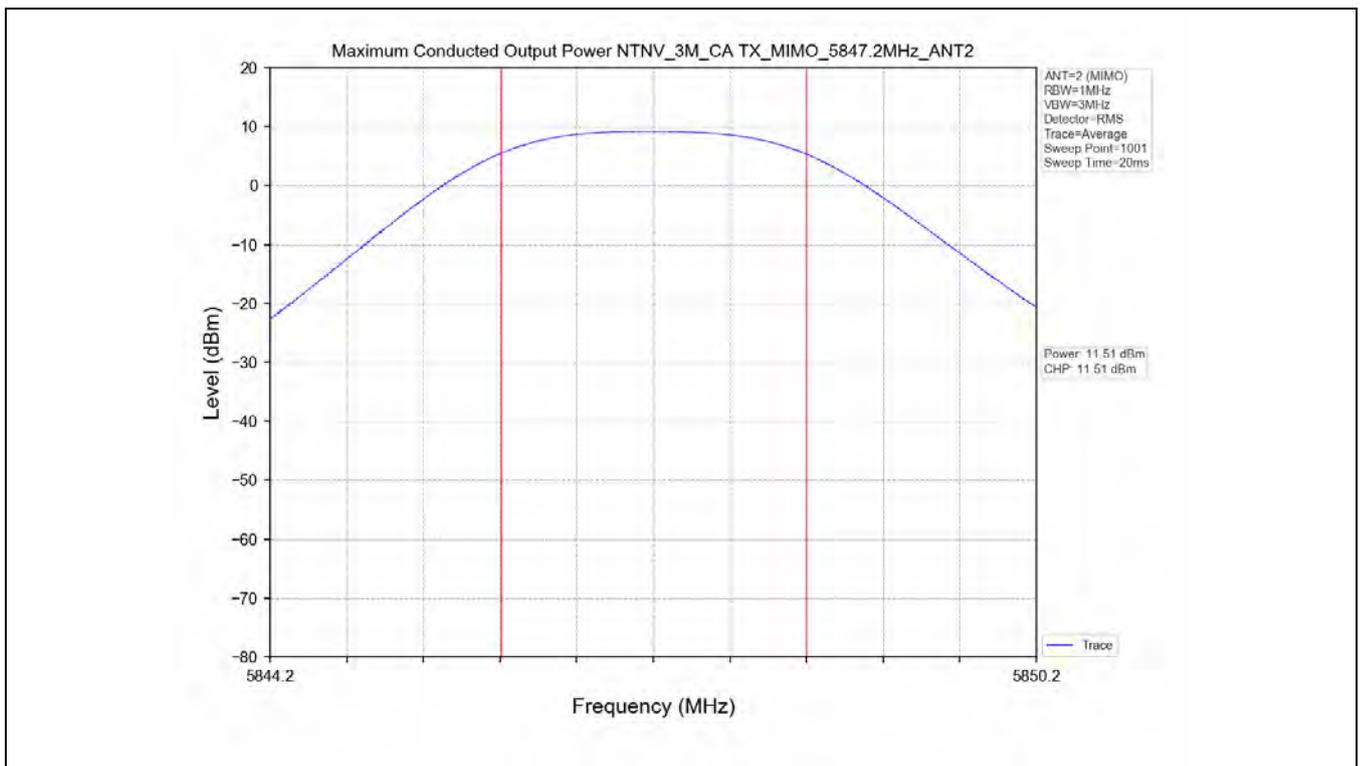
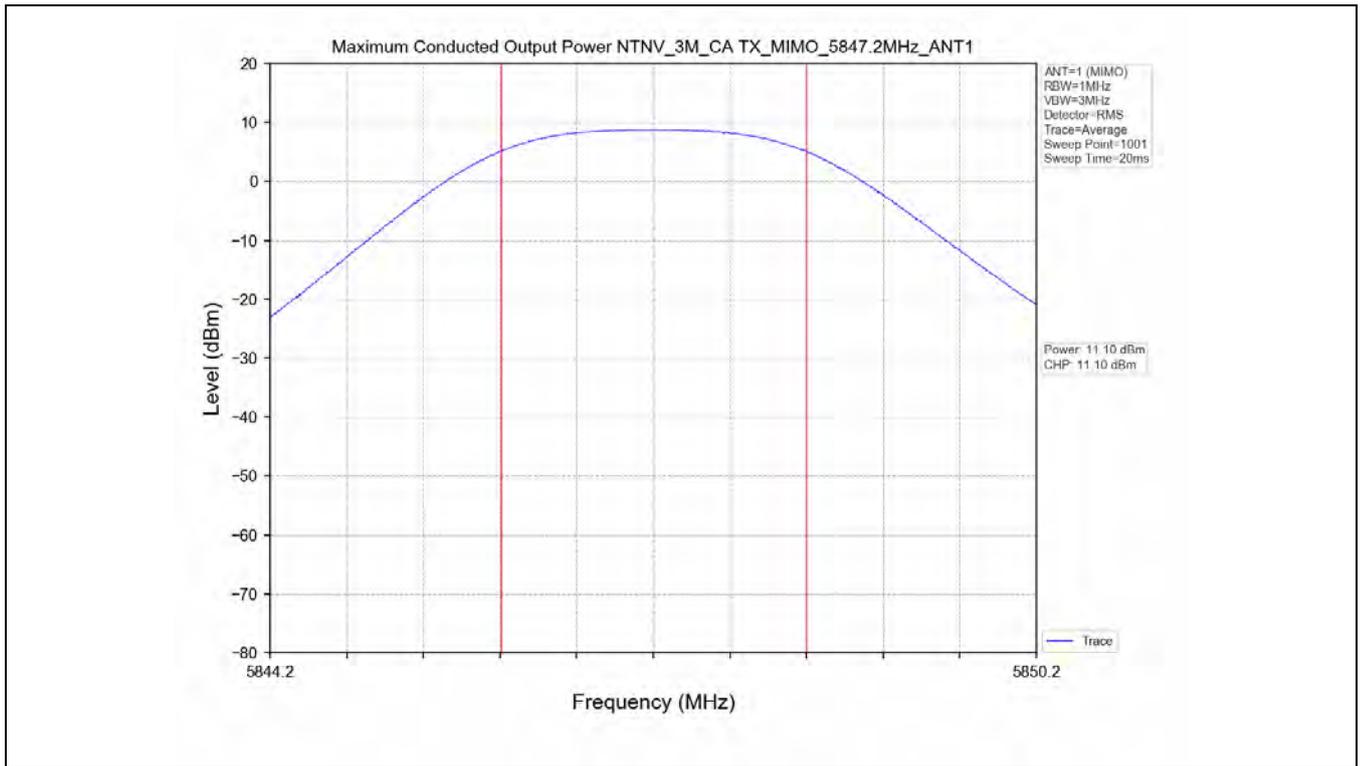
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4. Maximum Power Spectral Density (PSD)

4.1 Test Result

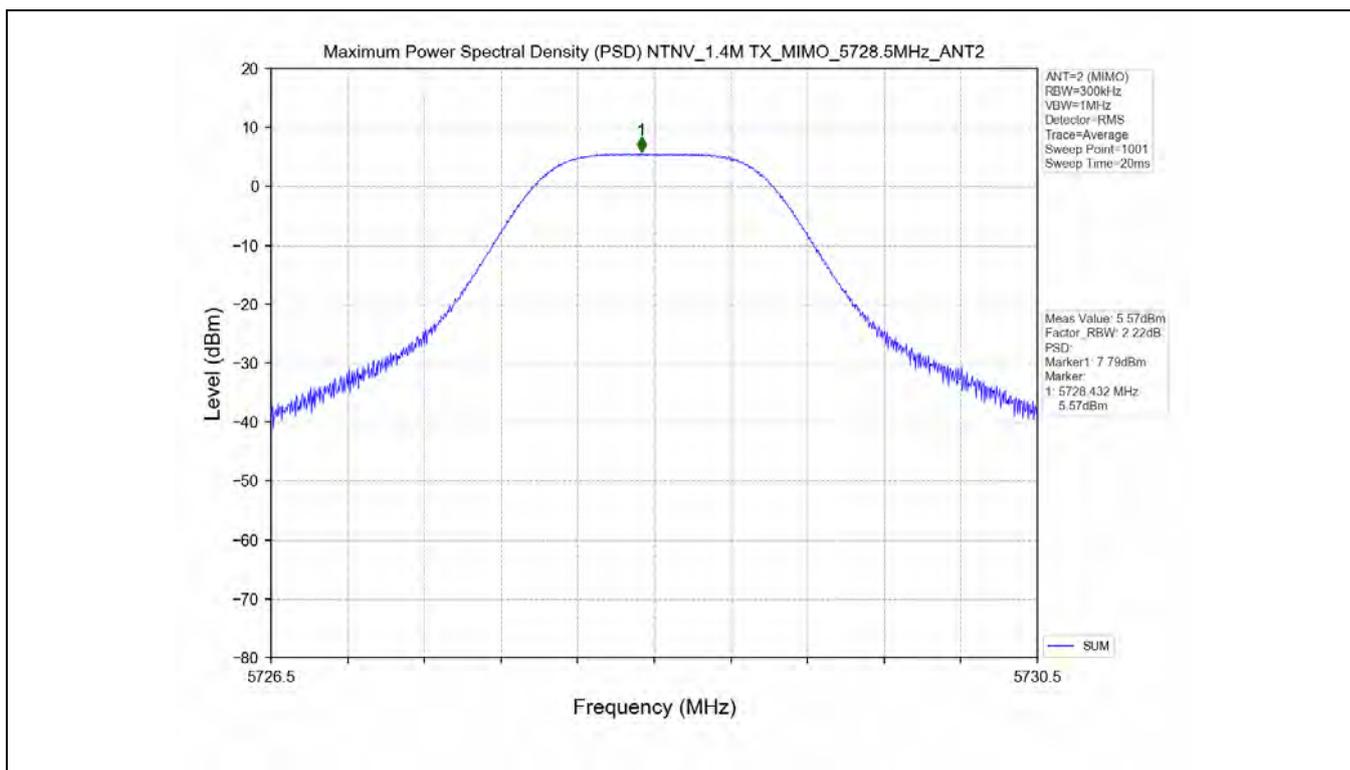
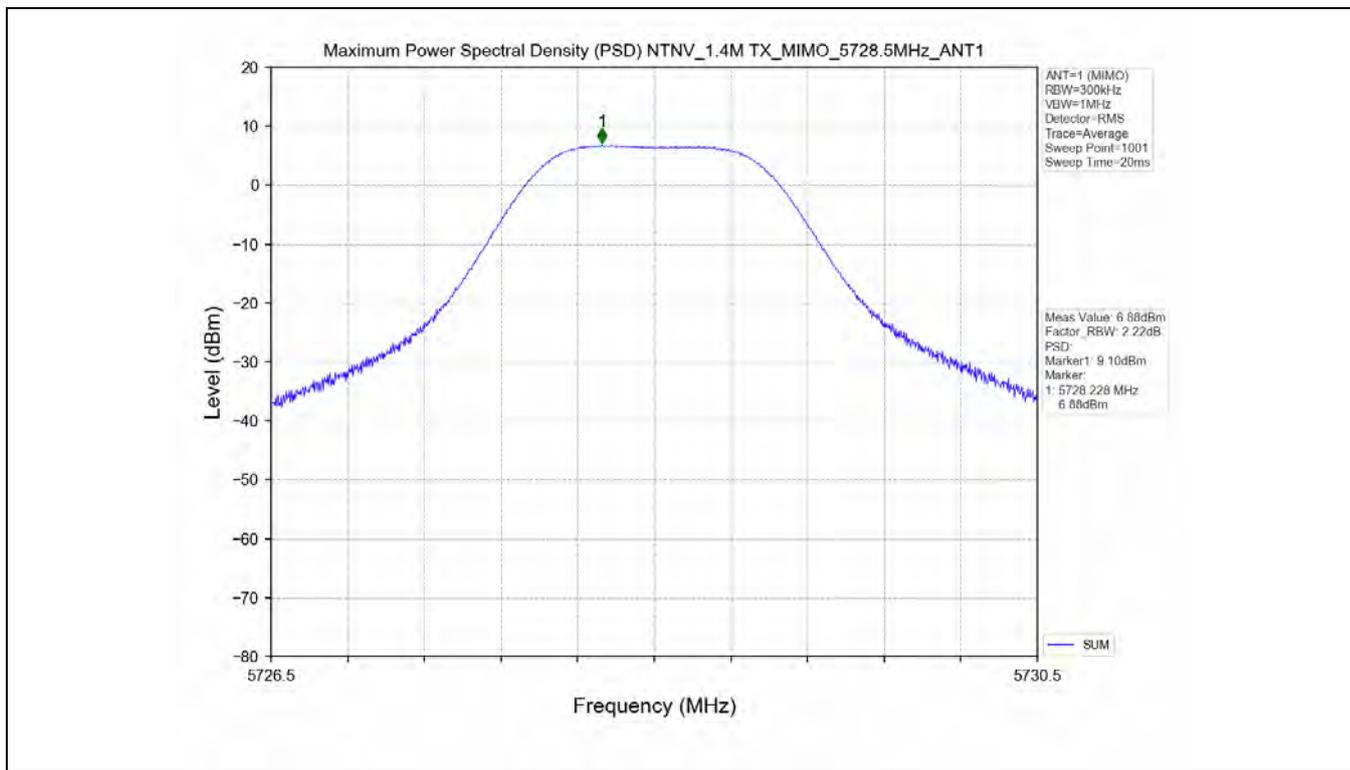
Test Mode	Frequency (MHz)	Maximum Power Spectral Density (dBm/MHz)	Verdict
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Test Mode	Frequency (MHz)	Tx Type	Maximum Power Spectral Density (dBm/500kHz)			Limits (dBm/500kHz)	Verdict
			Ant 1	Ant 2	Total		
1.4M TX	5728.5	MIMO	9.10	7.79	11.47	≤28.49	PASS
	5786.5	MIMO	9.41	9.61	12.41	≤28.49	PASS
	5846.5	MIMO	10.31	9.65	12.89	≤28.49	PASS
1.4M_CA TX	5730.12	MIMO	8.44	8.92	11.62	≤28.49	PASS
	5786.12	MIMO	8.89	9.51	12.10	≤28.49	PASS
	5848.12	MIMO	9.01	8.84	11.81	≤28.49	PASS
3M TX	5730.5	MIMO	5.19	6.16	8.64	≤28.49	PASS
	5787.5	MIMO	6.01	6.79	9.38	≤28.49	PASS
	5844.5	MIMO	6.26	6.74	9.39	≤28.49	PASS
3M_CA TX	5733.2	MIMO	5.61	6.36	8.96	≤28.49	PASS
	5790.2	MIMO	5.94	6.73	9.28	≤28.49	PASS
	5847.2	MIMO	6.23	6.64	9.38	≤28.49	PASS



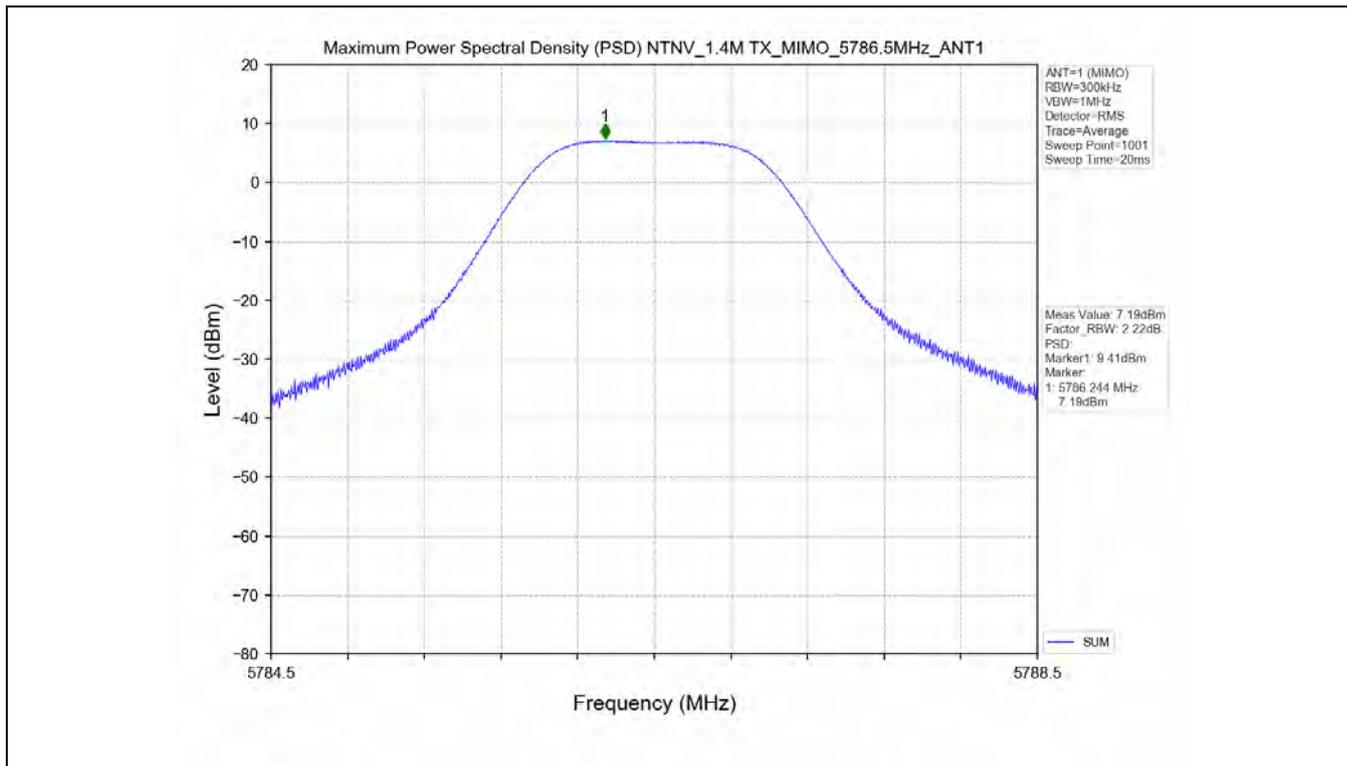
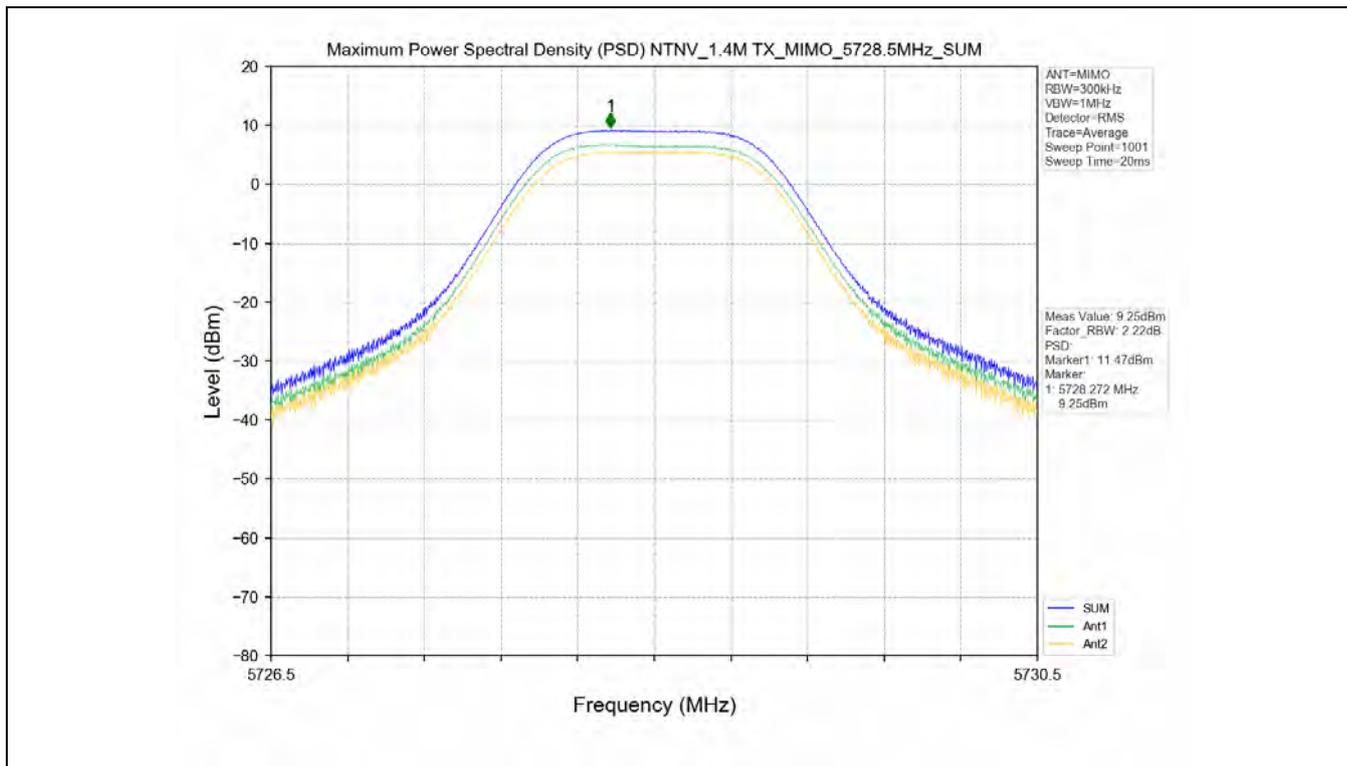
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4.2 Test Graph



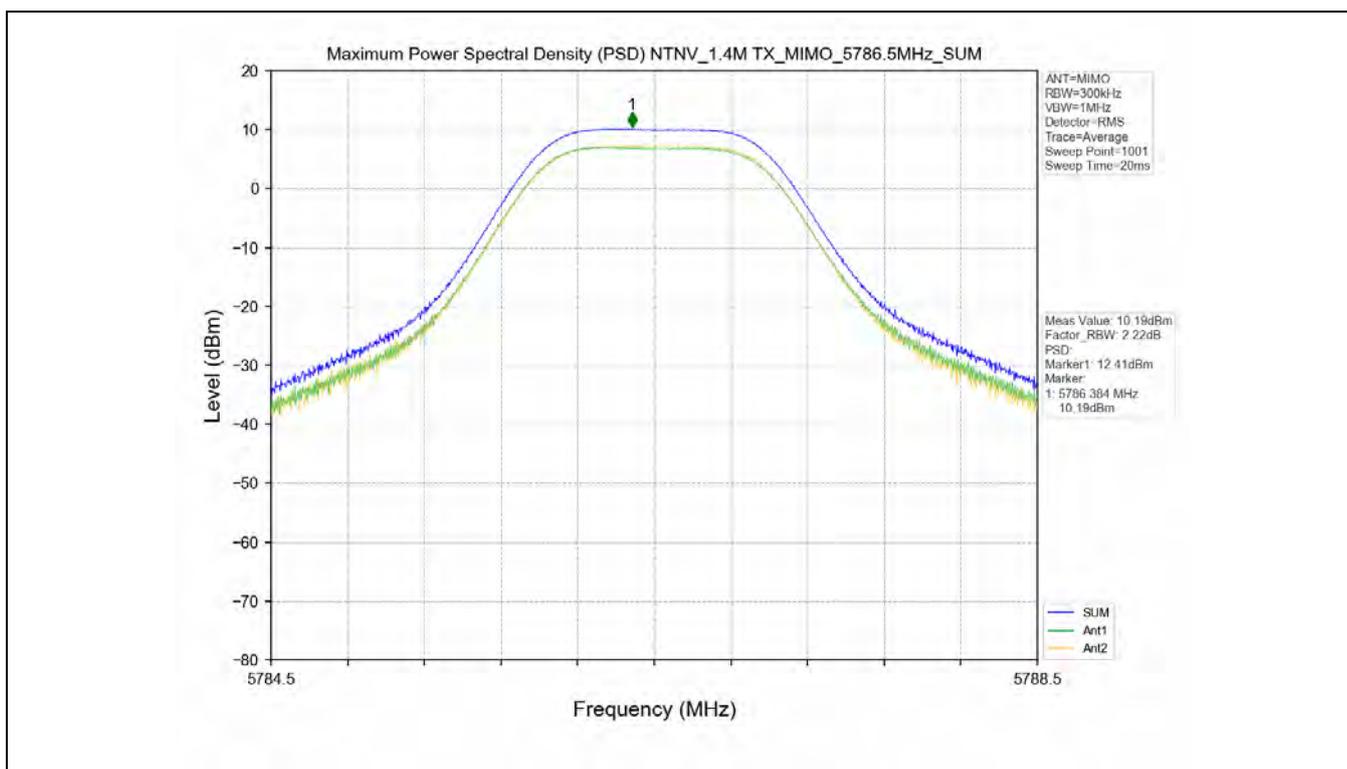
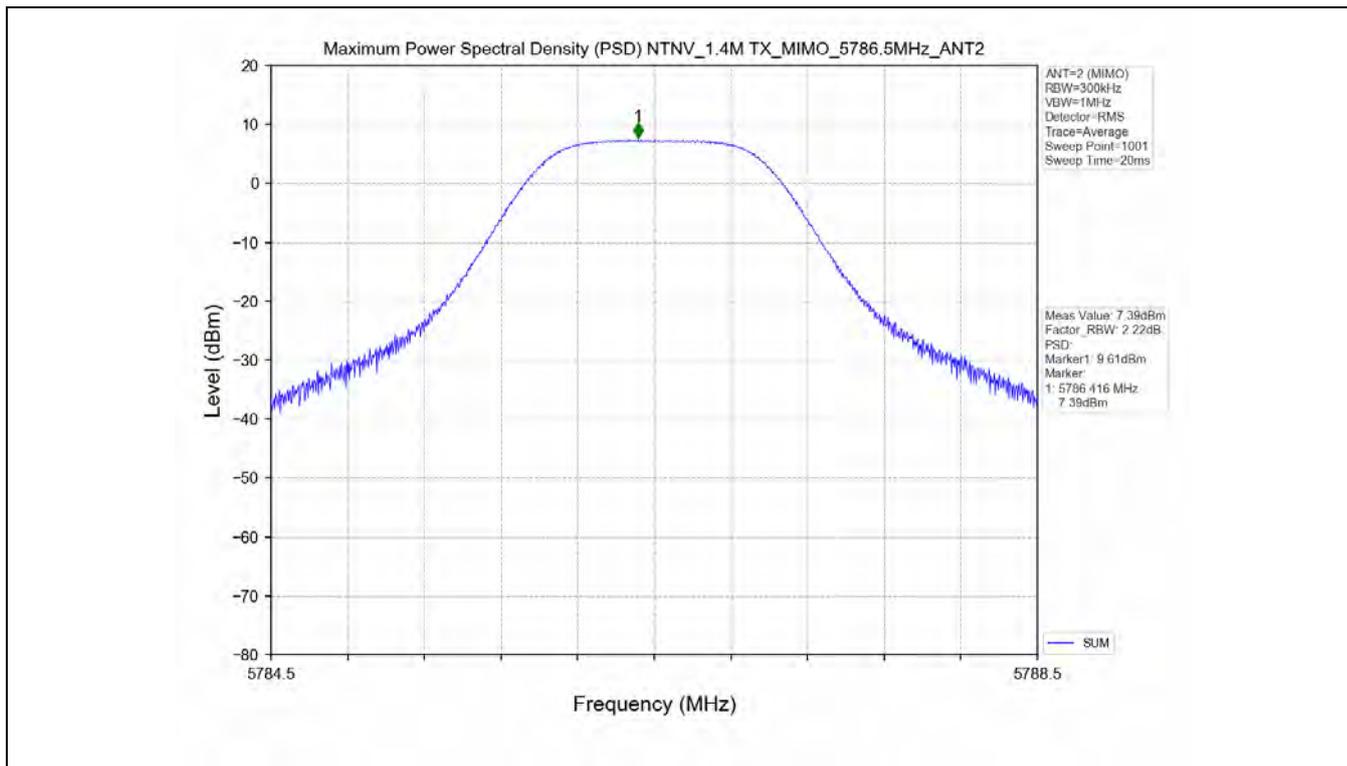
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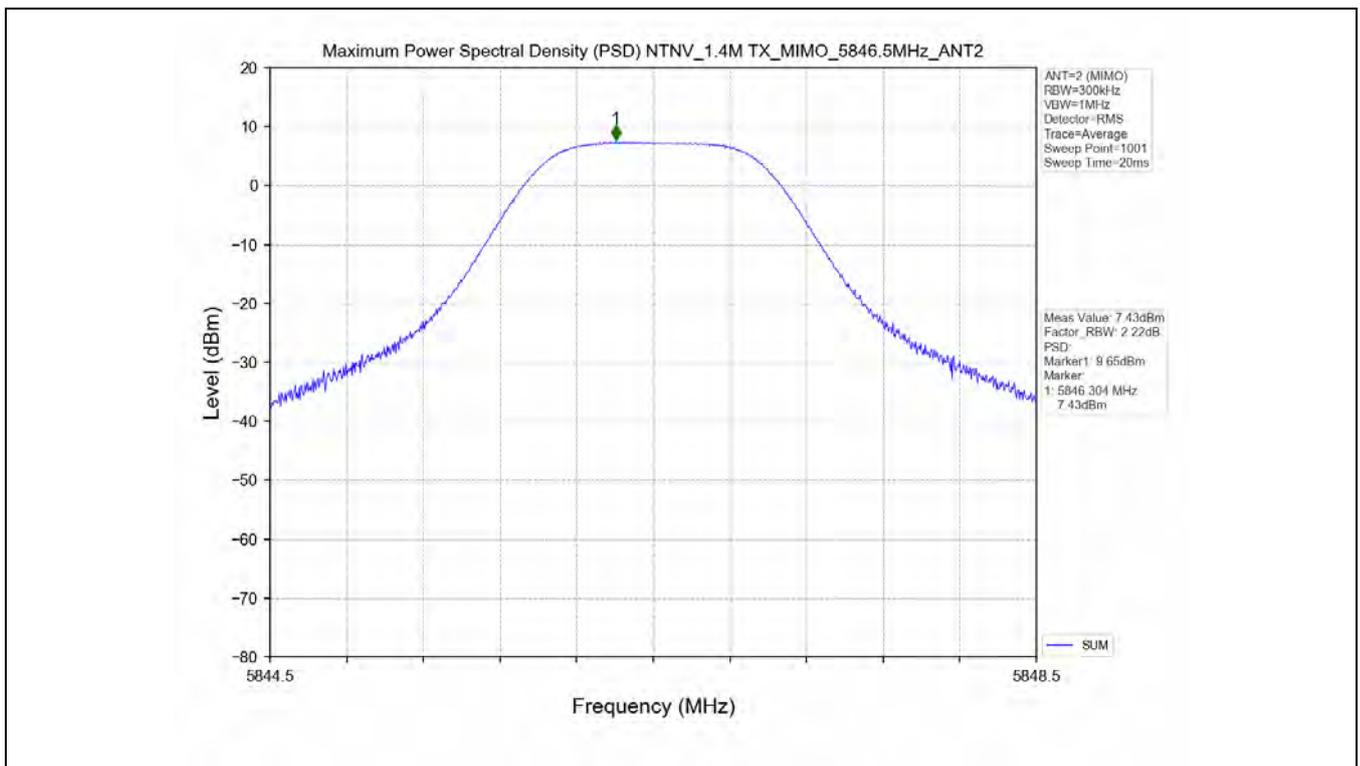
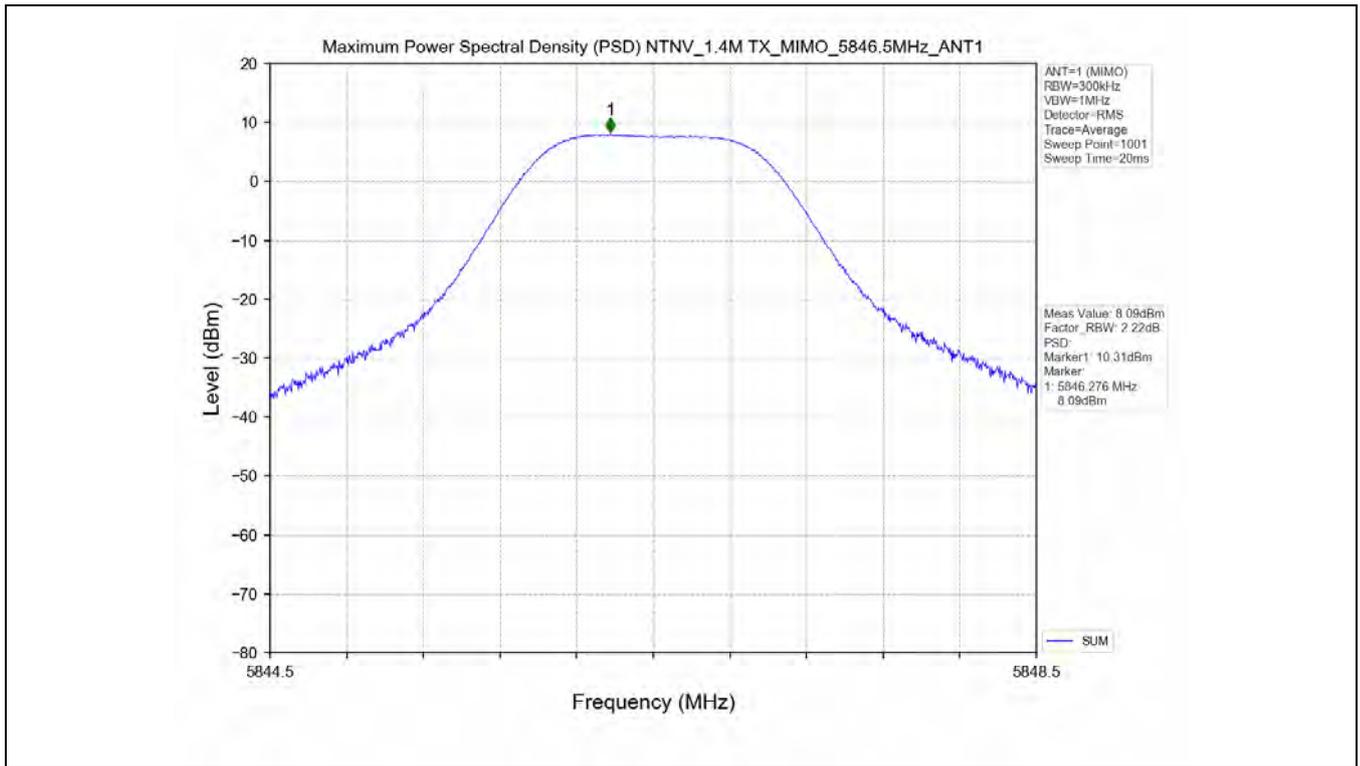
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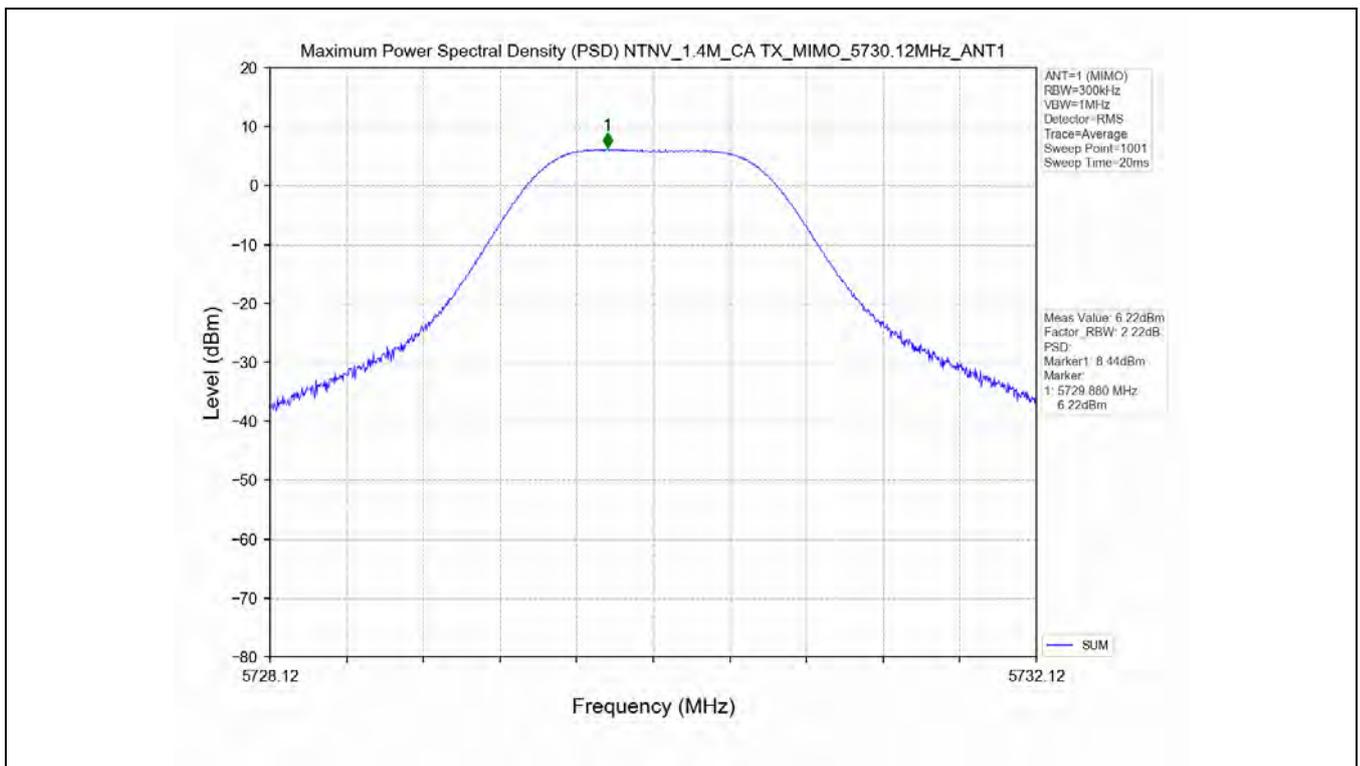
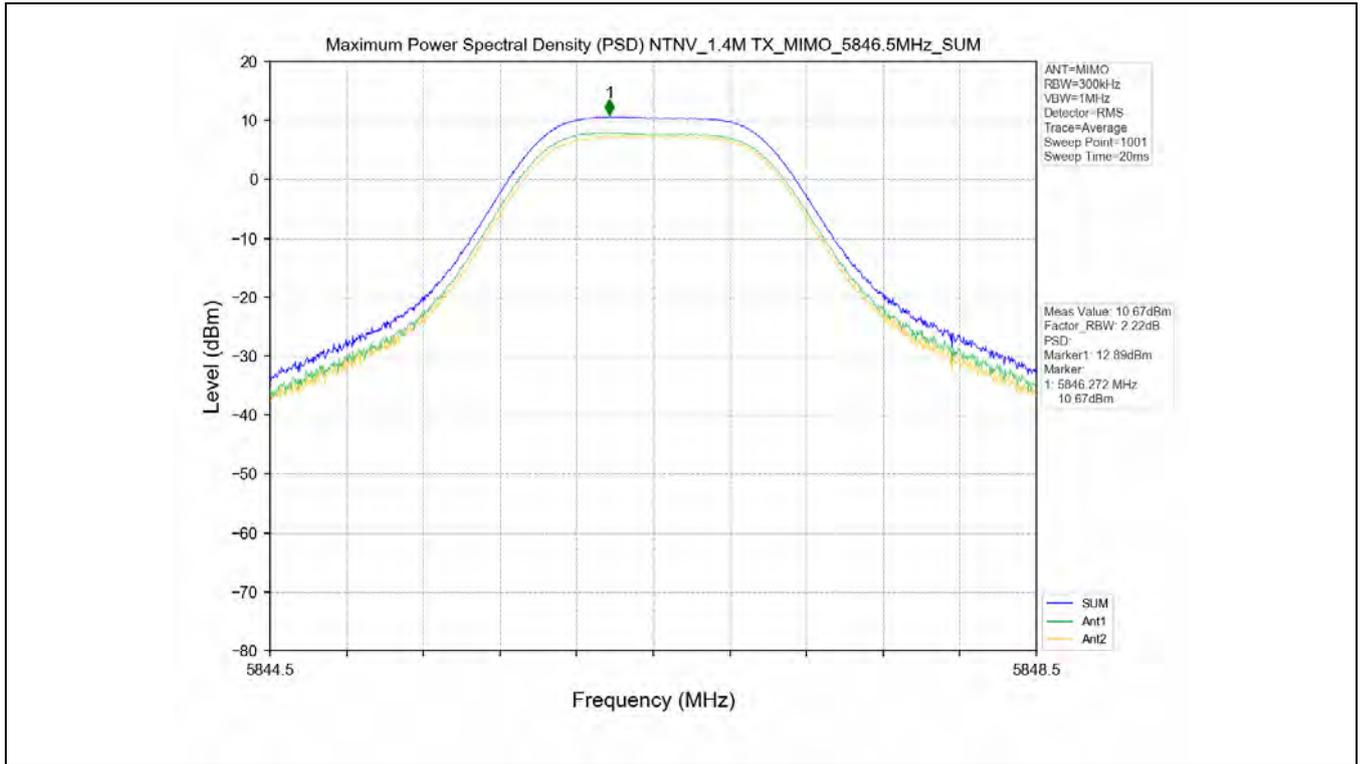
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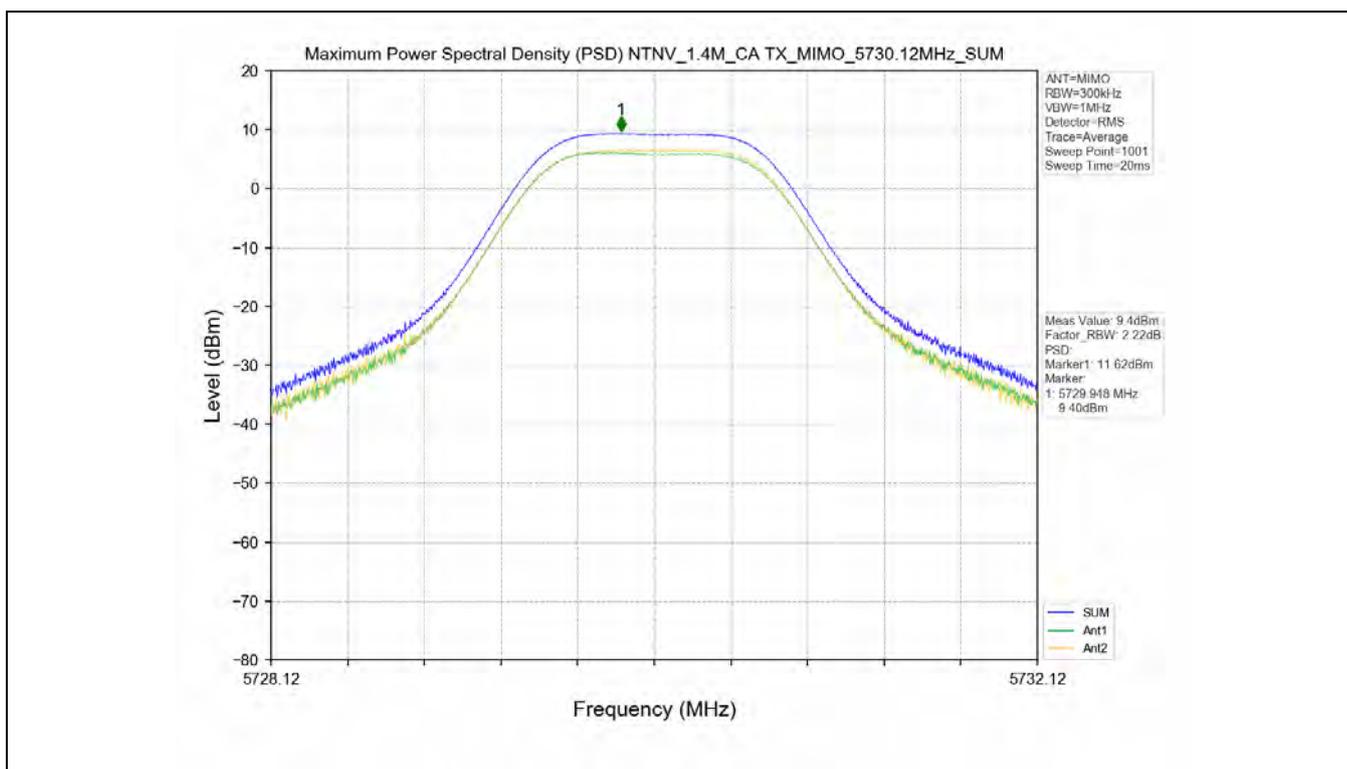
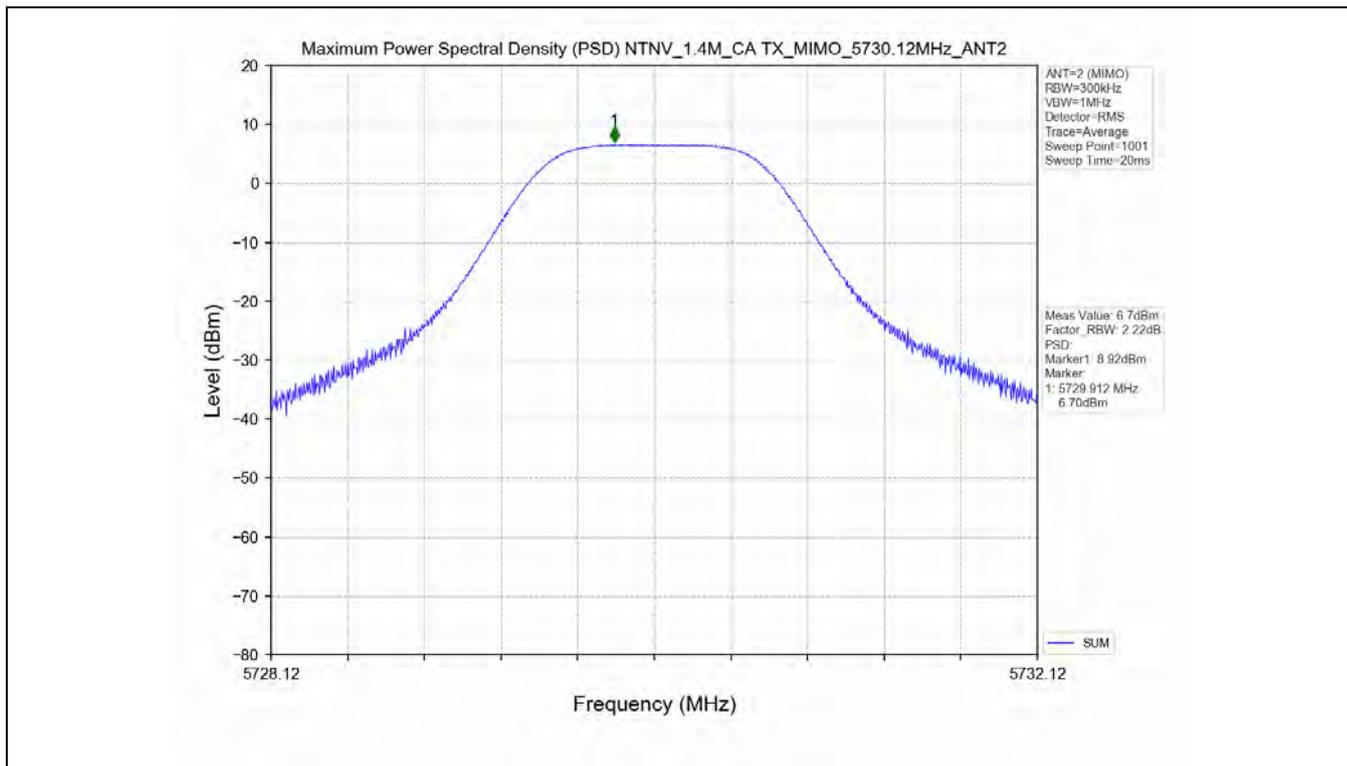
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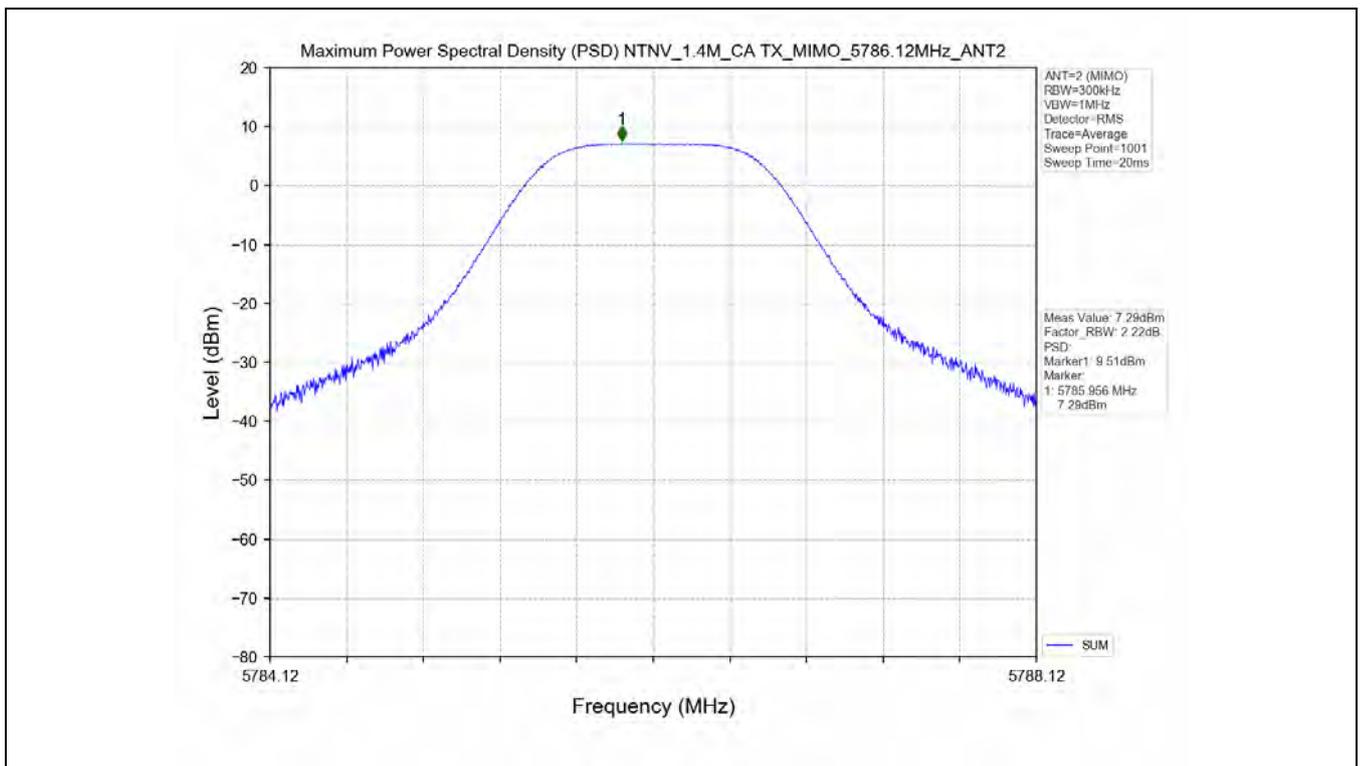
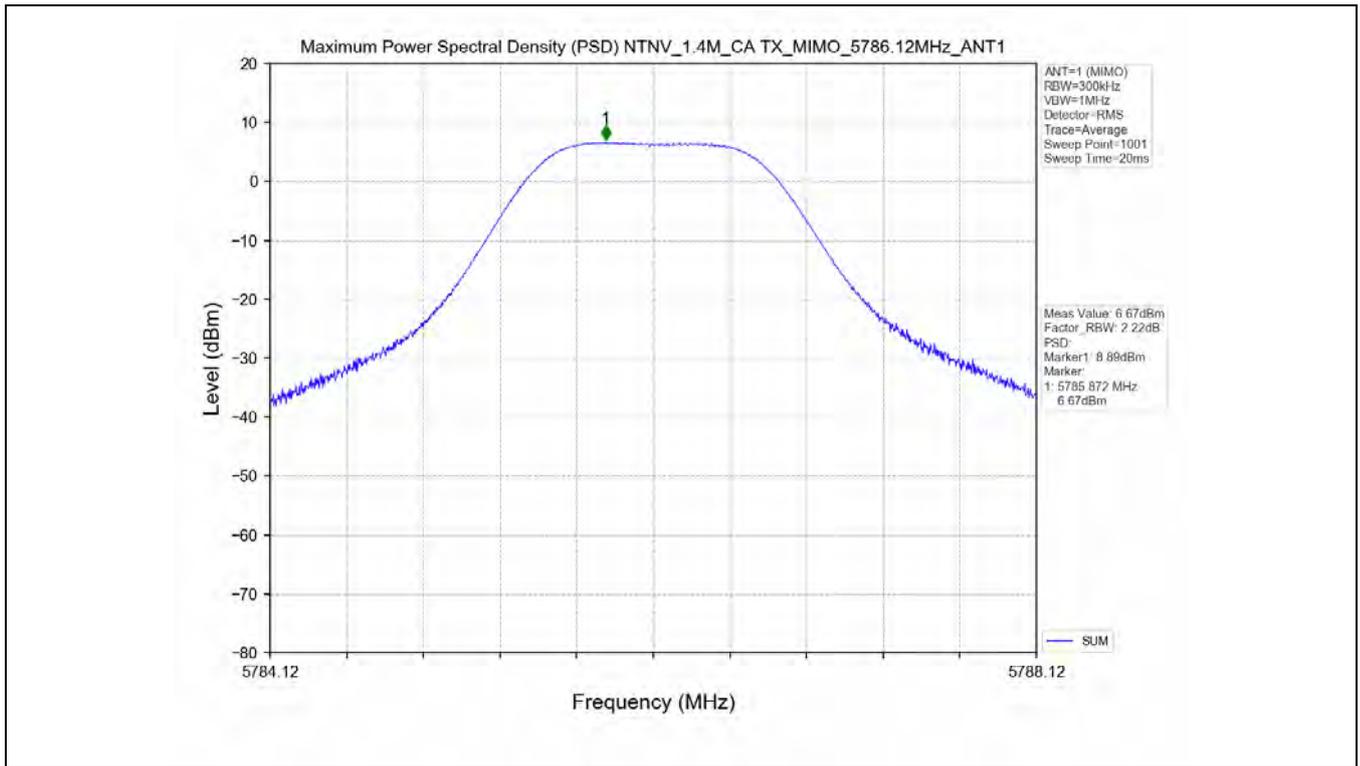
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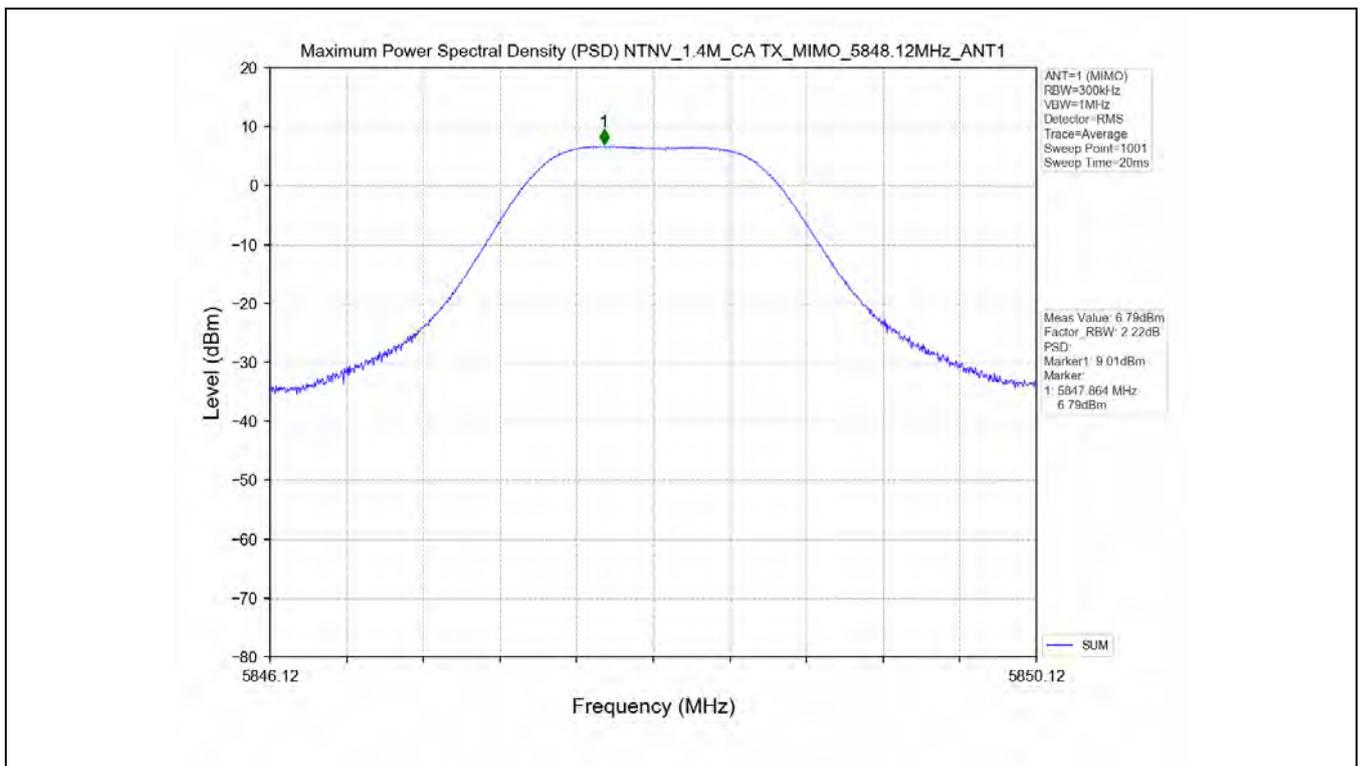
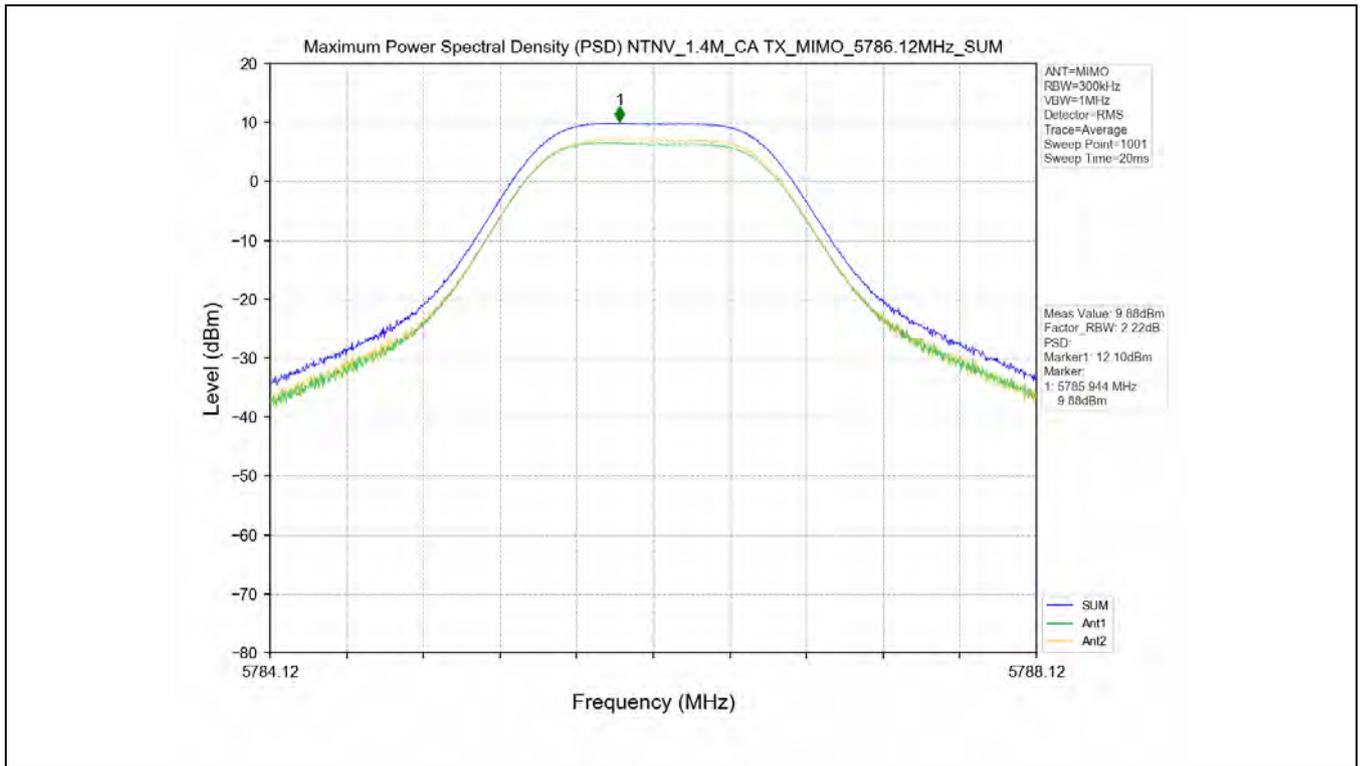
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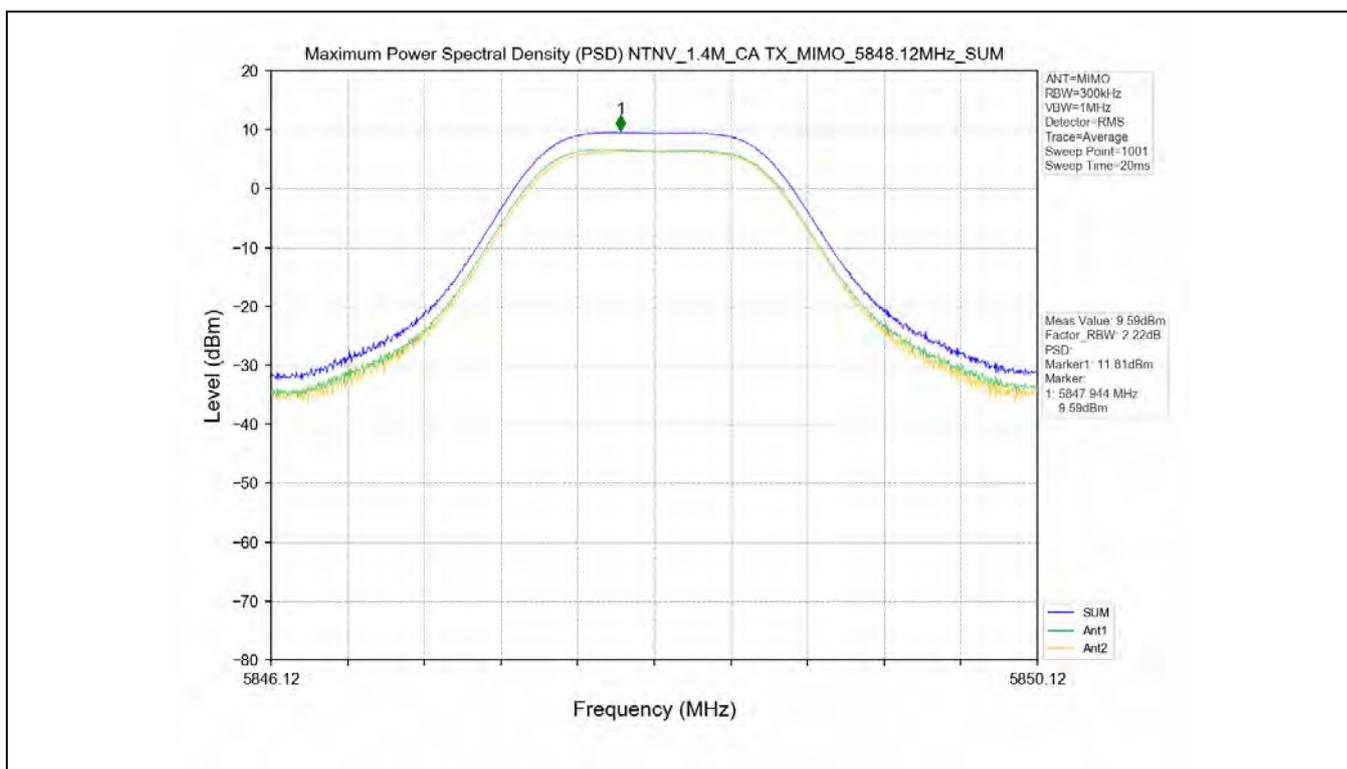
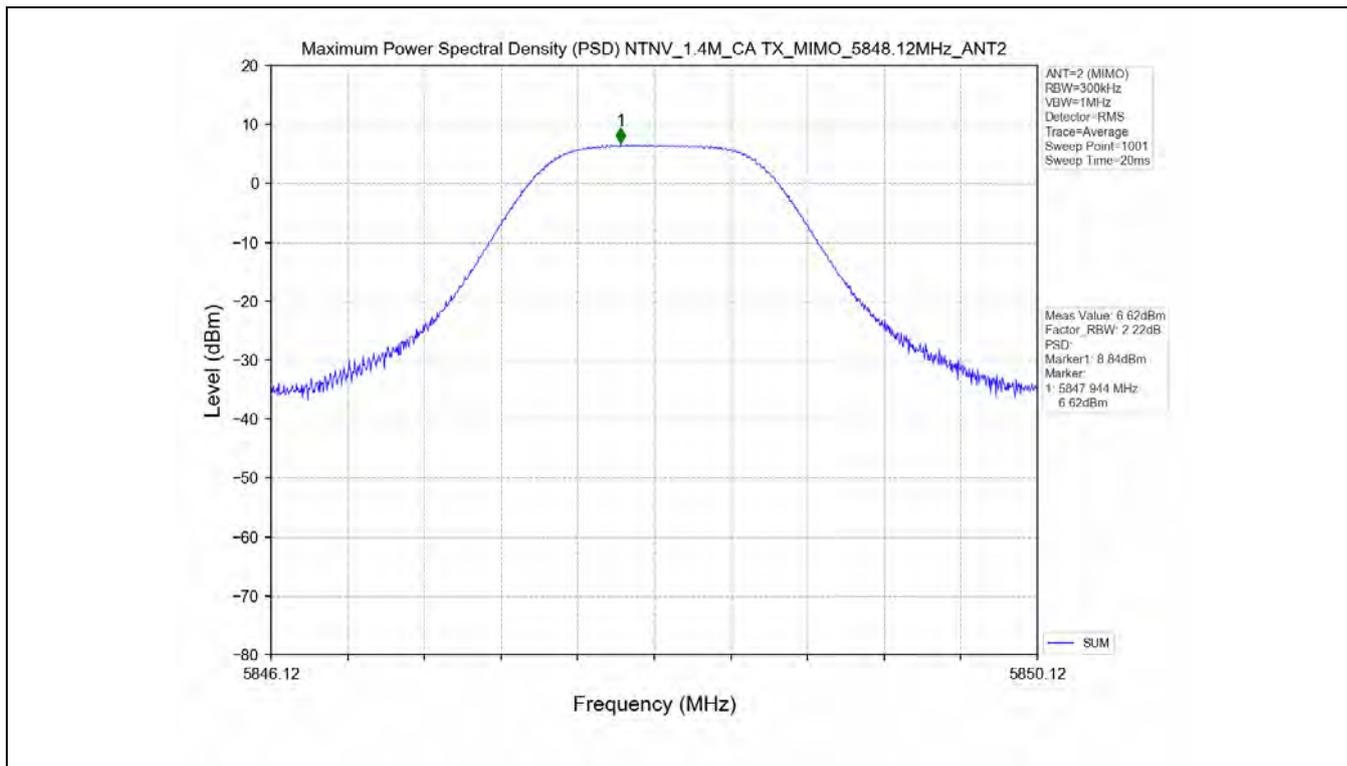
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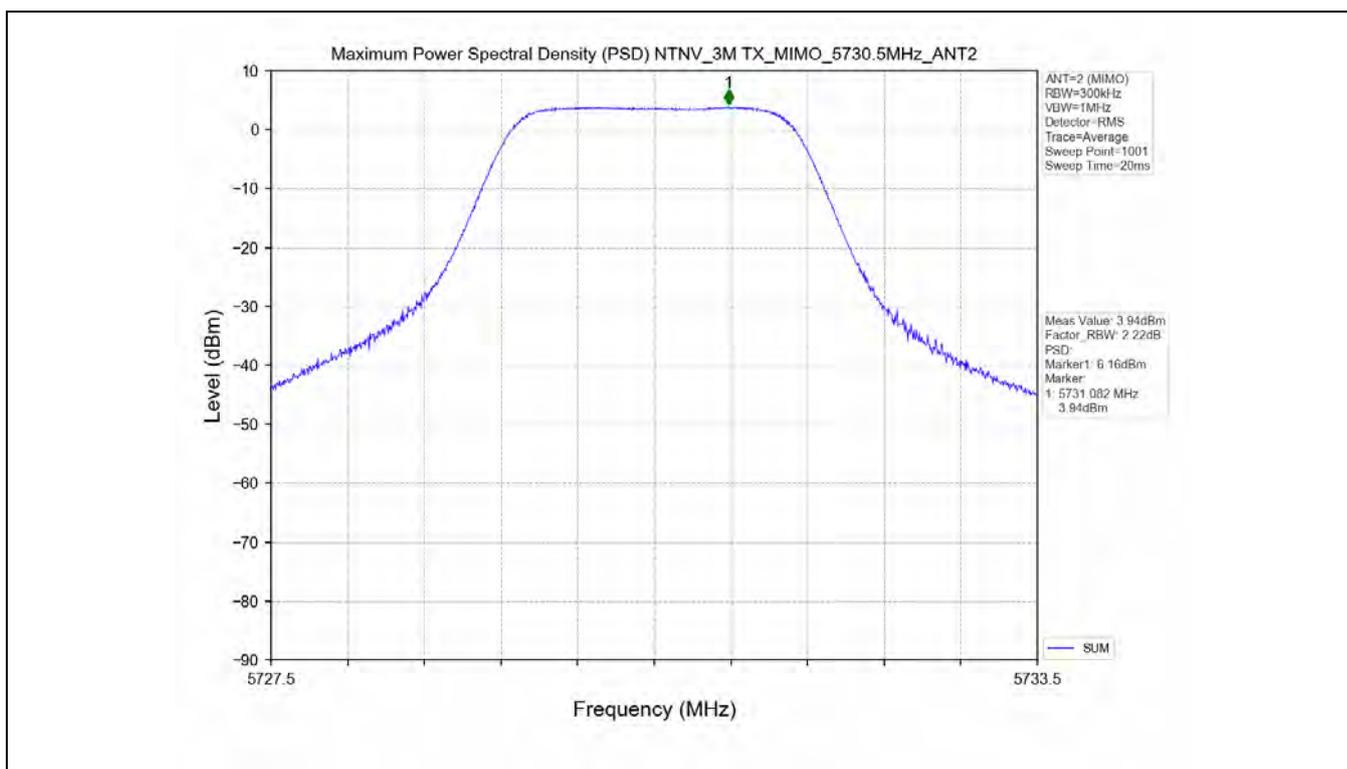
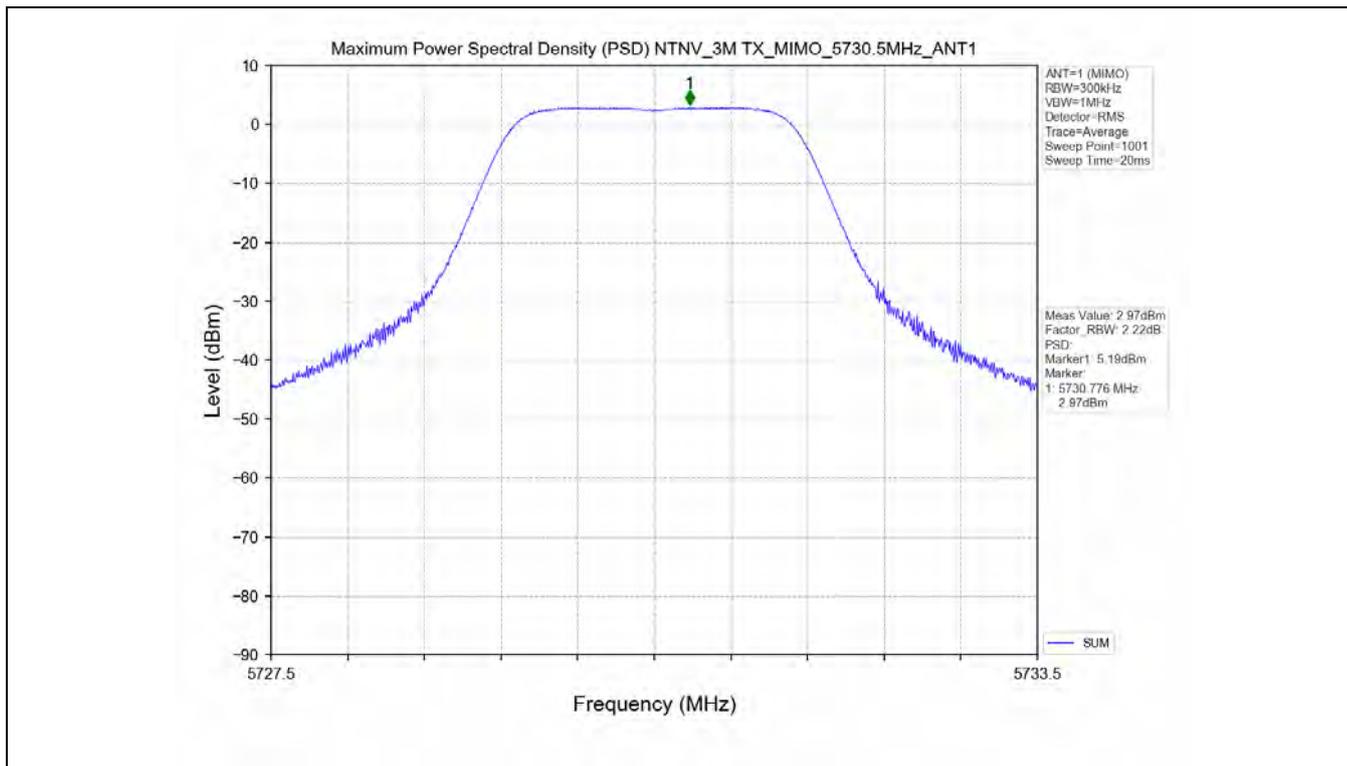
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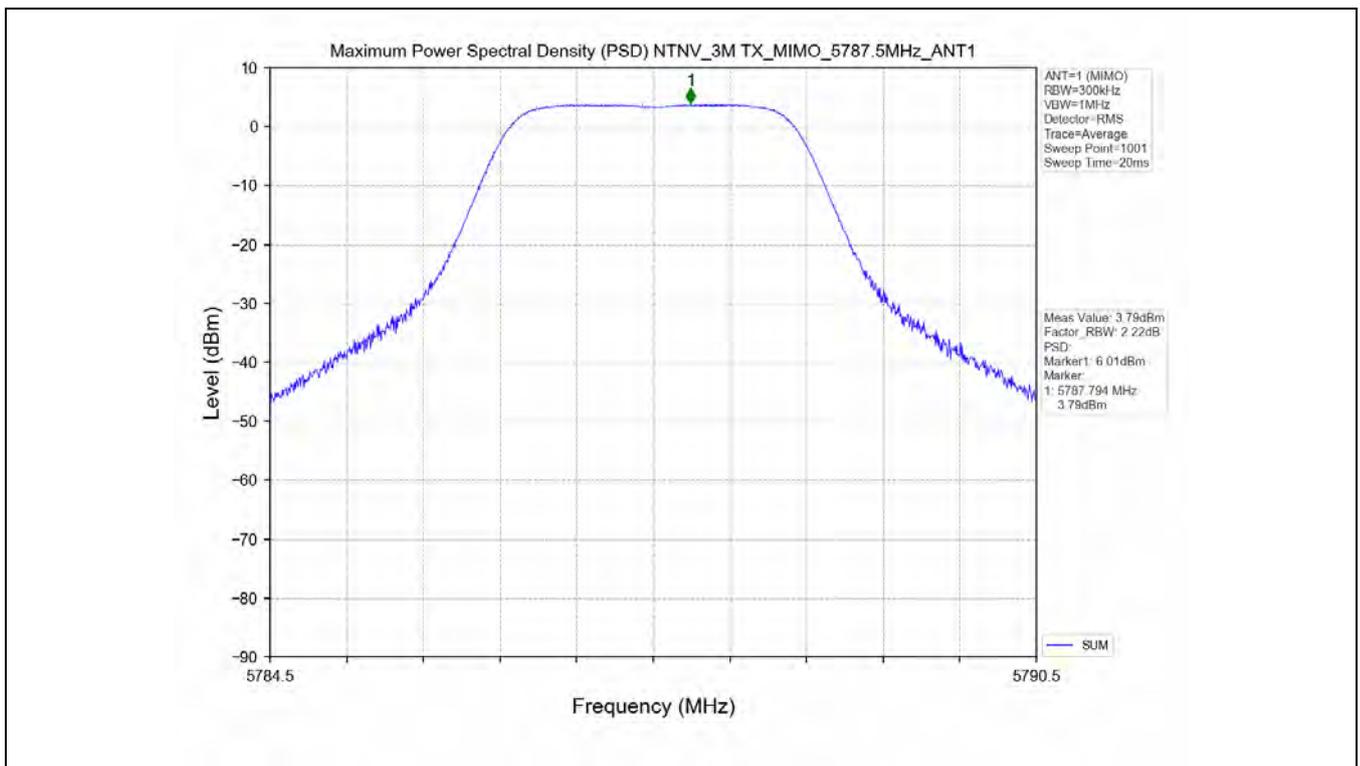
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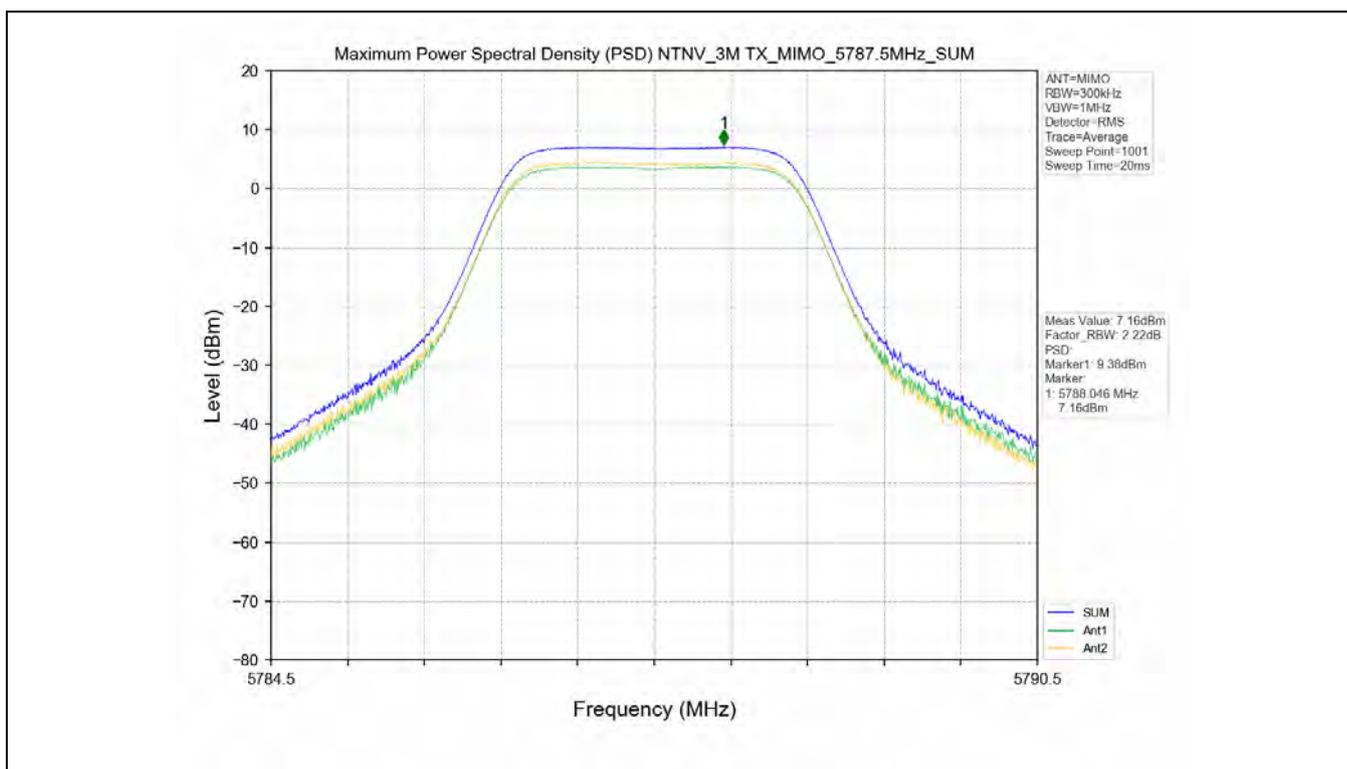
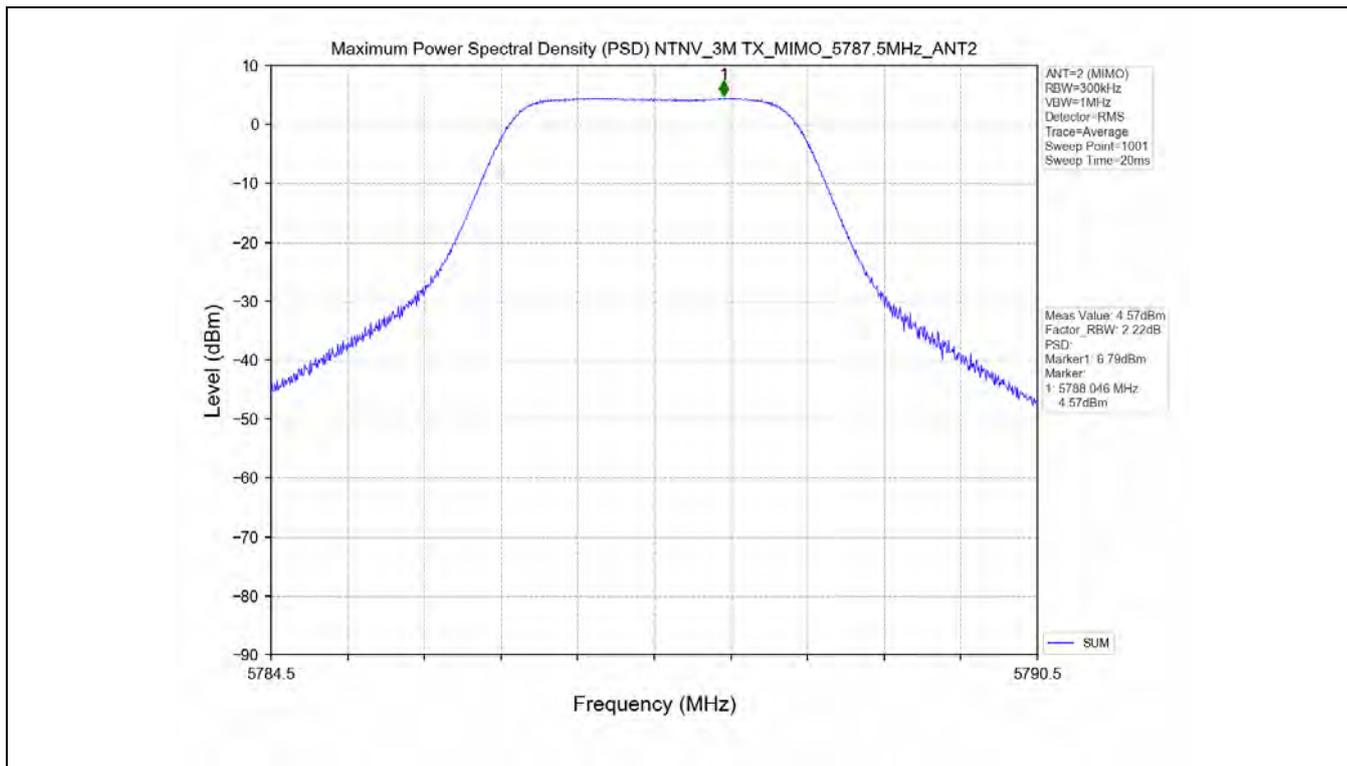
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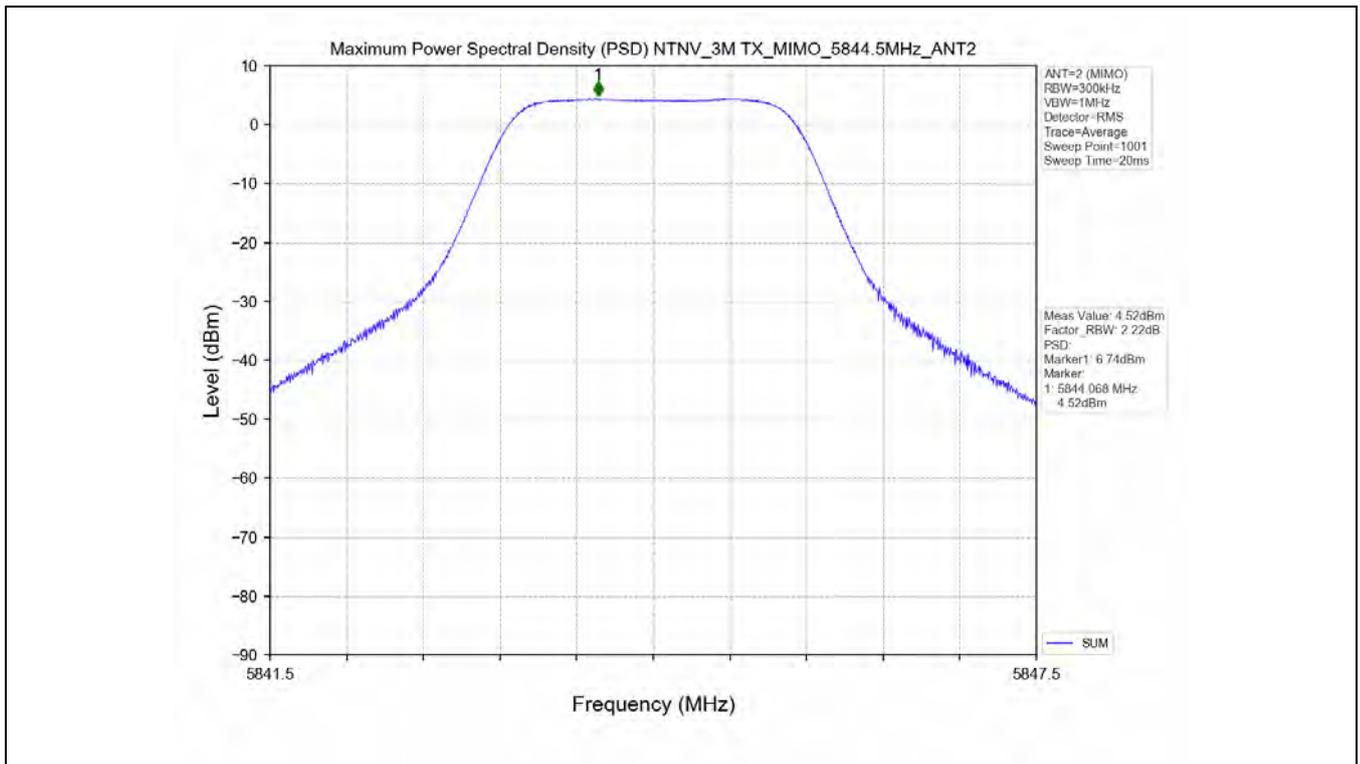
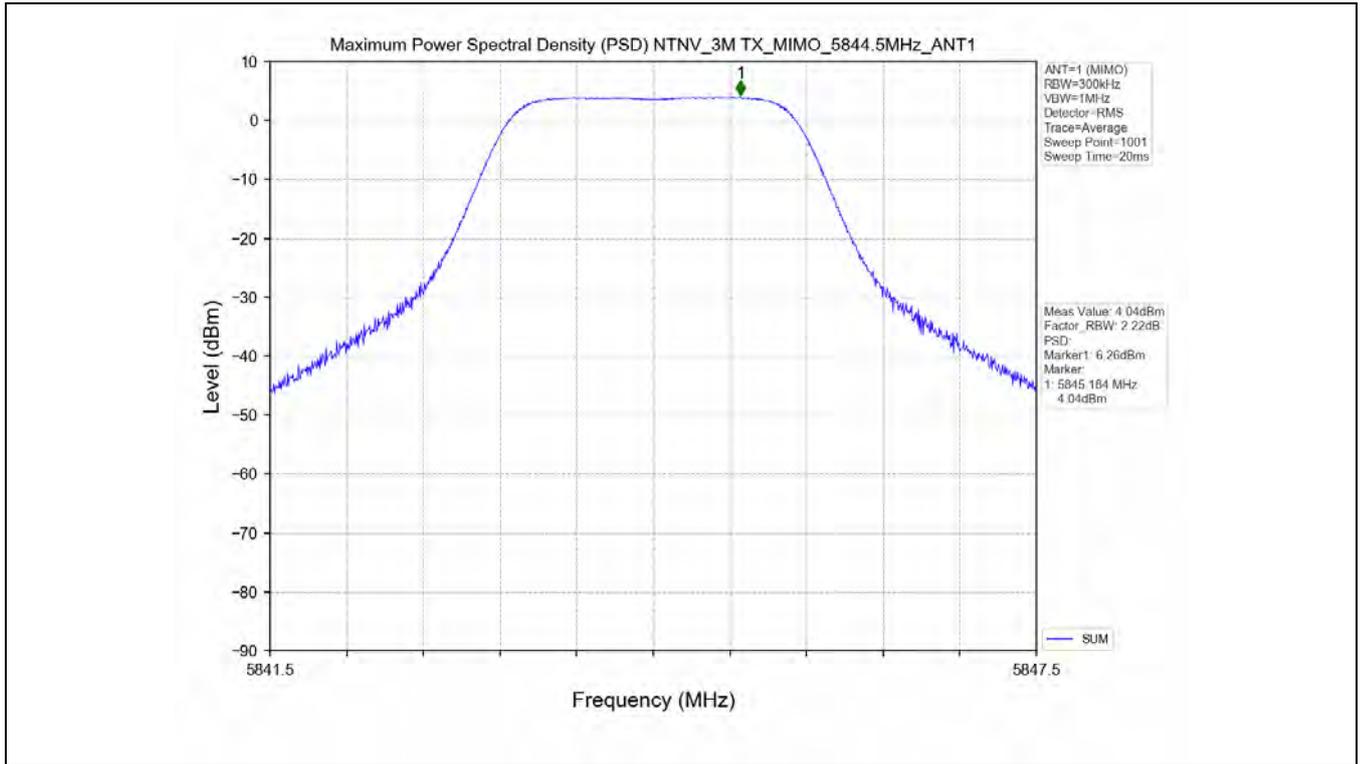


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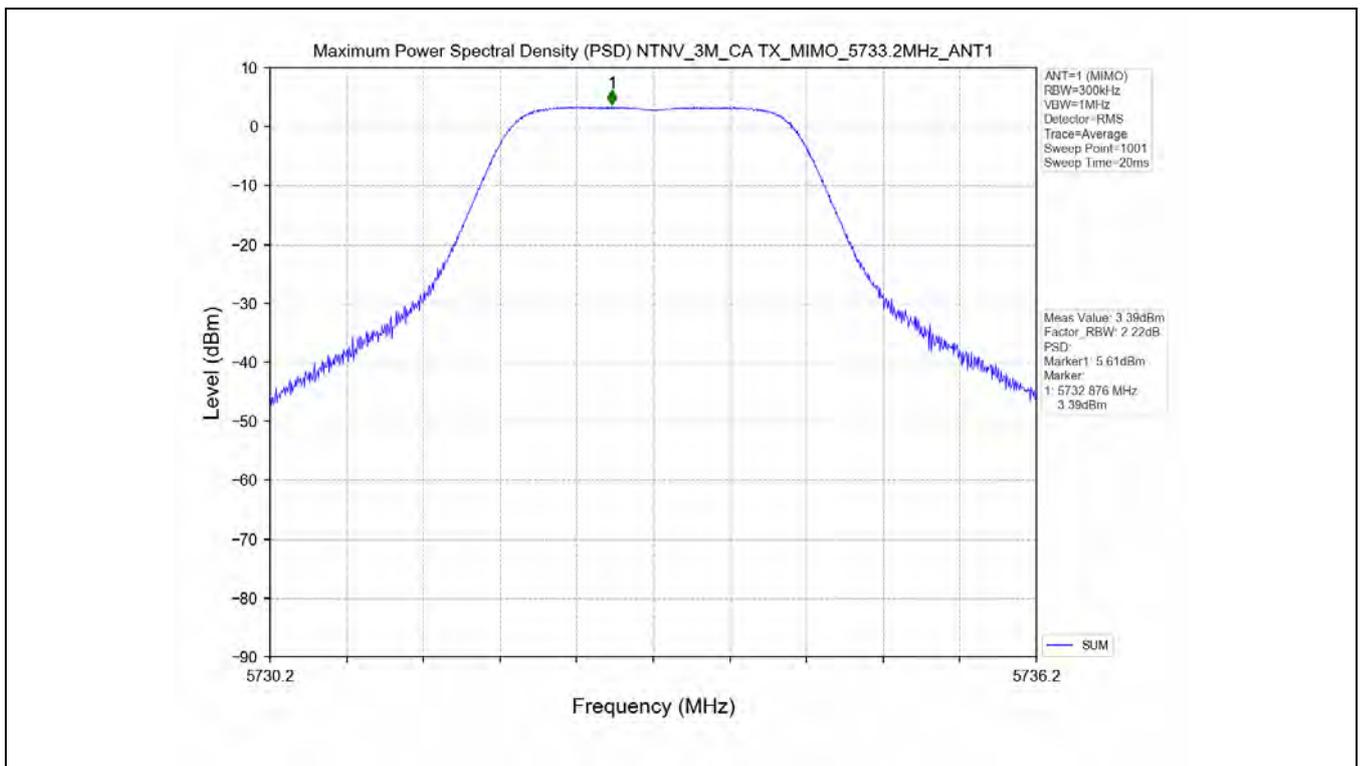
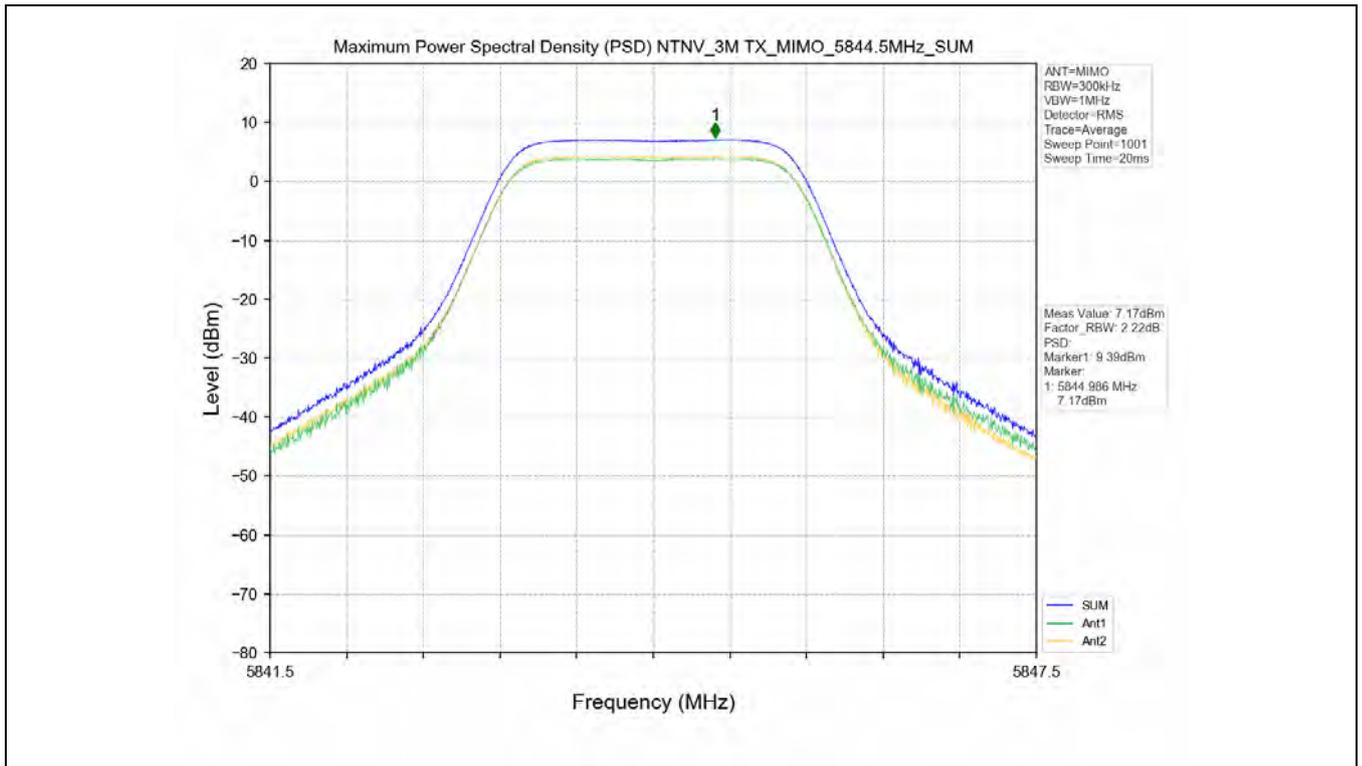
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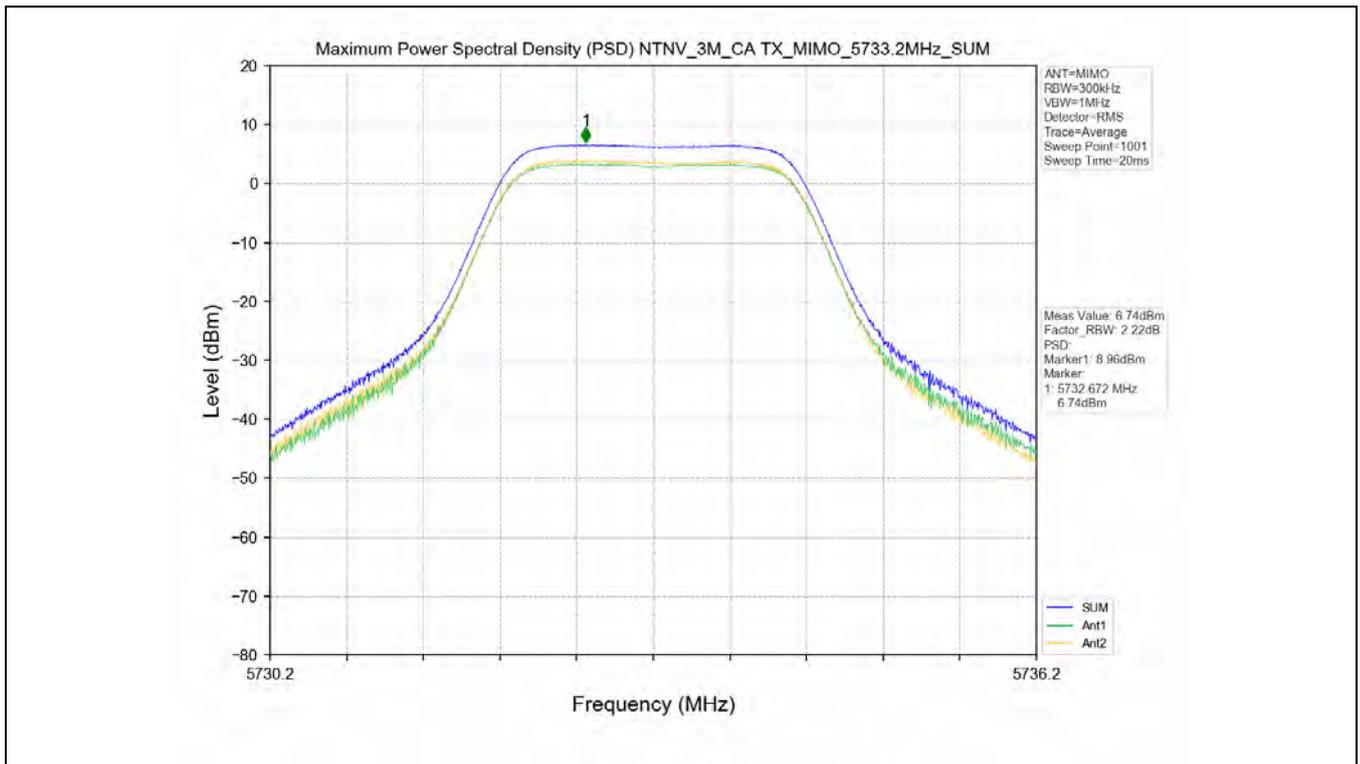
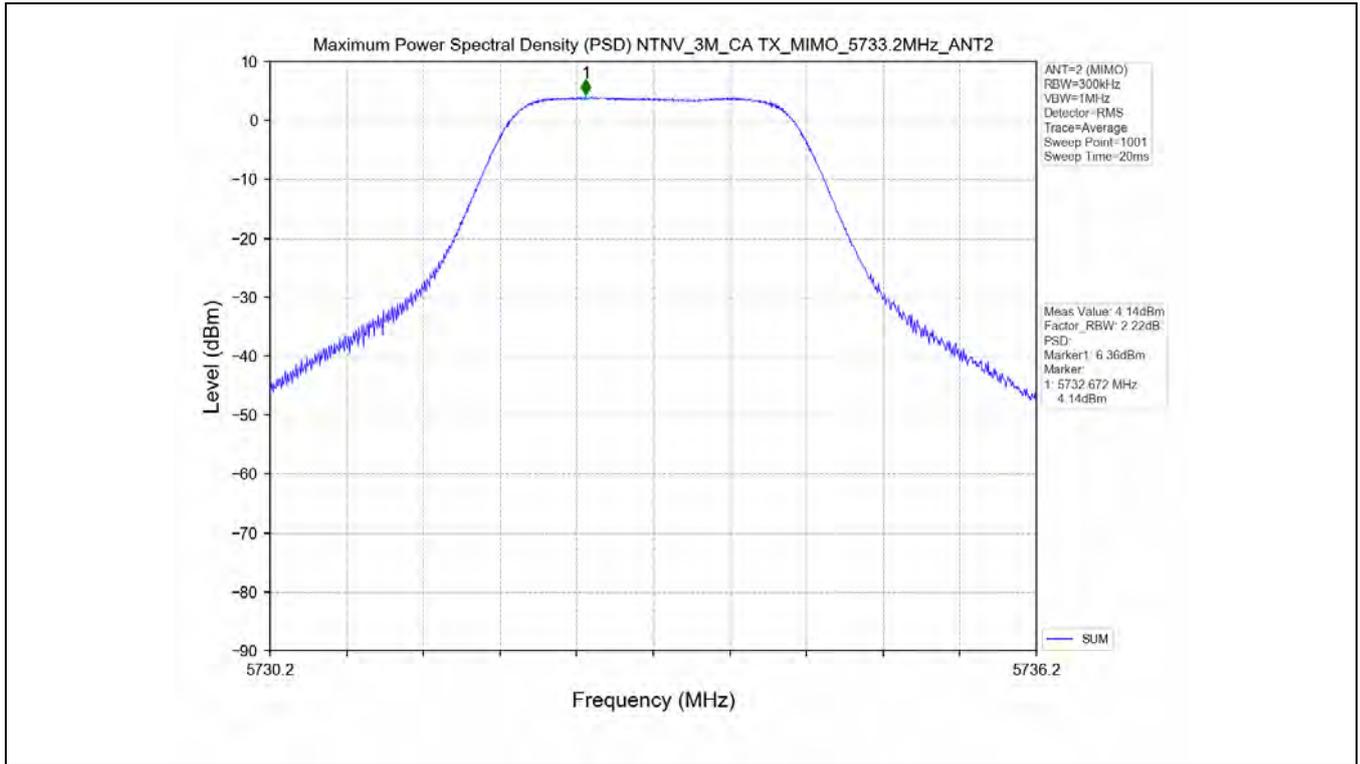
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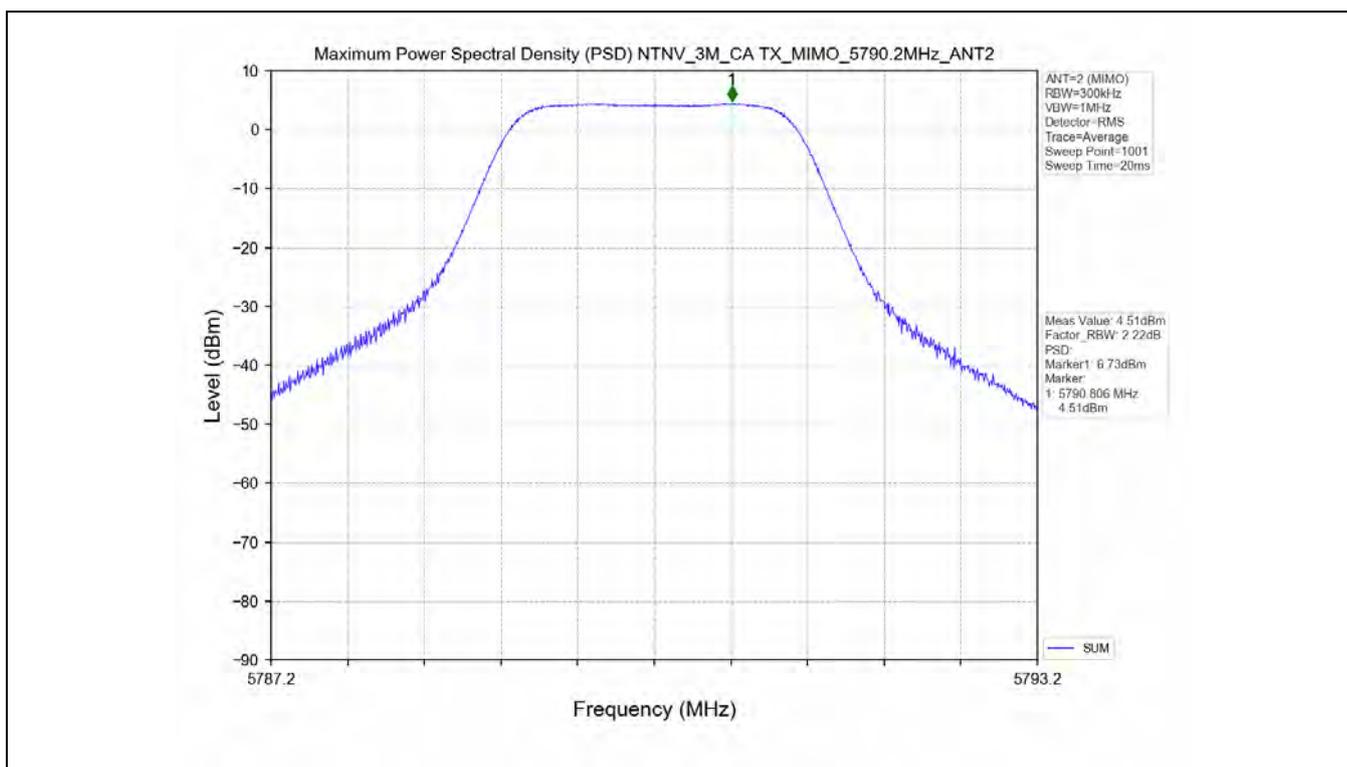
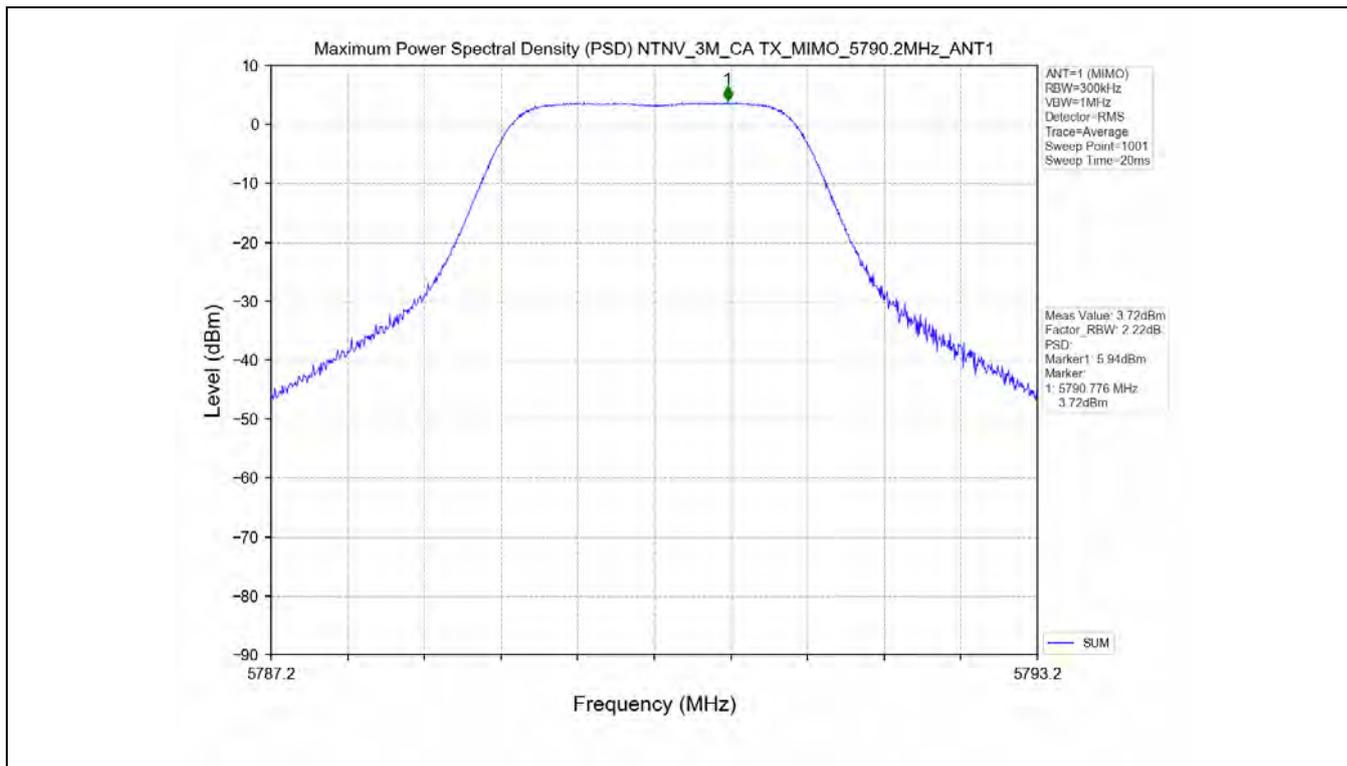
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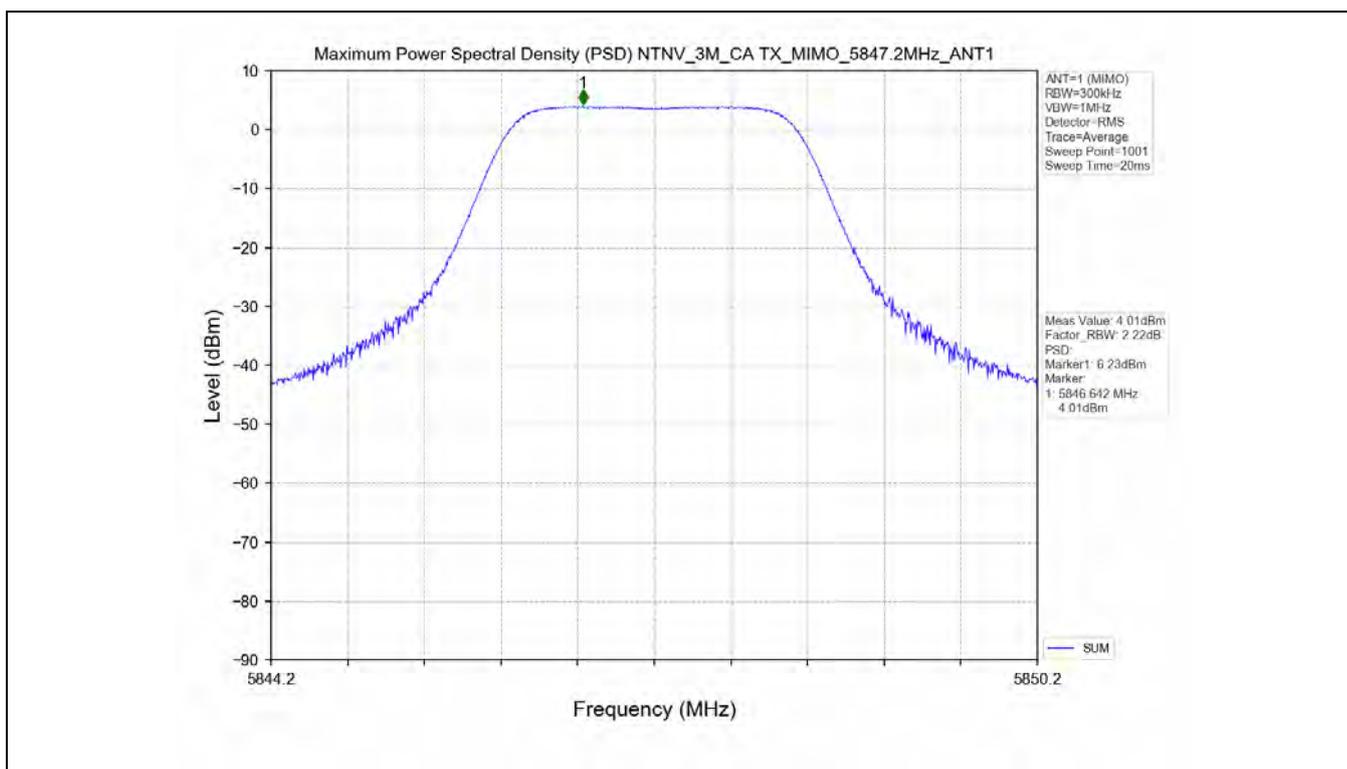
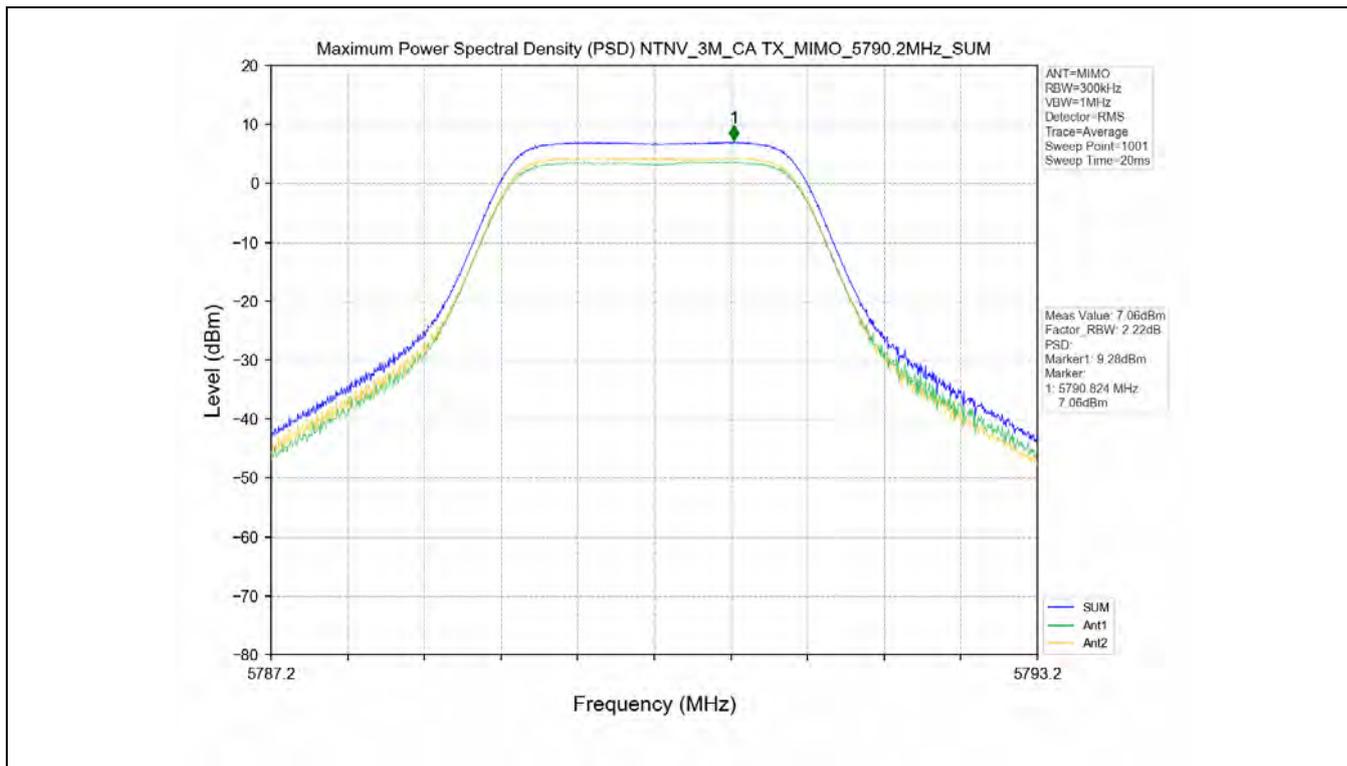


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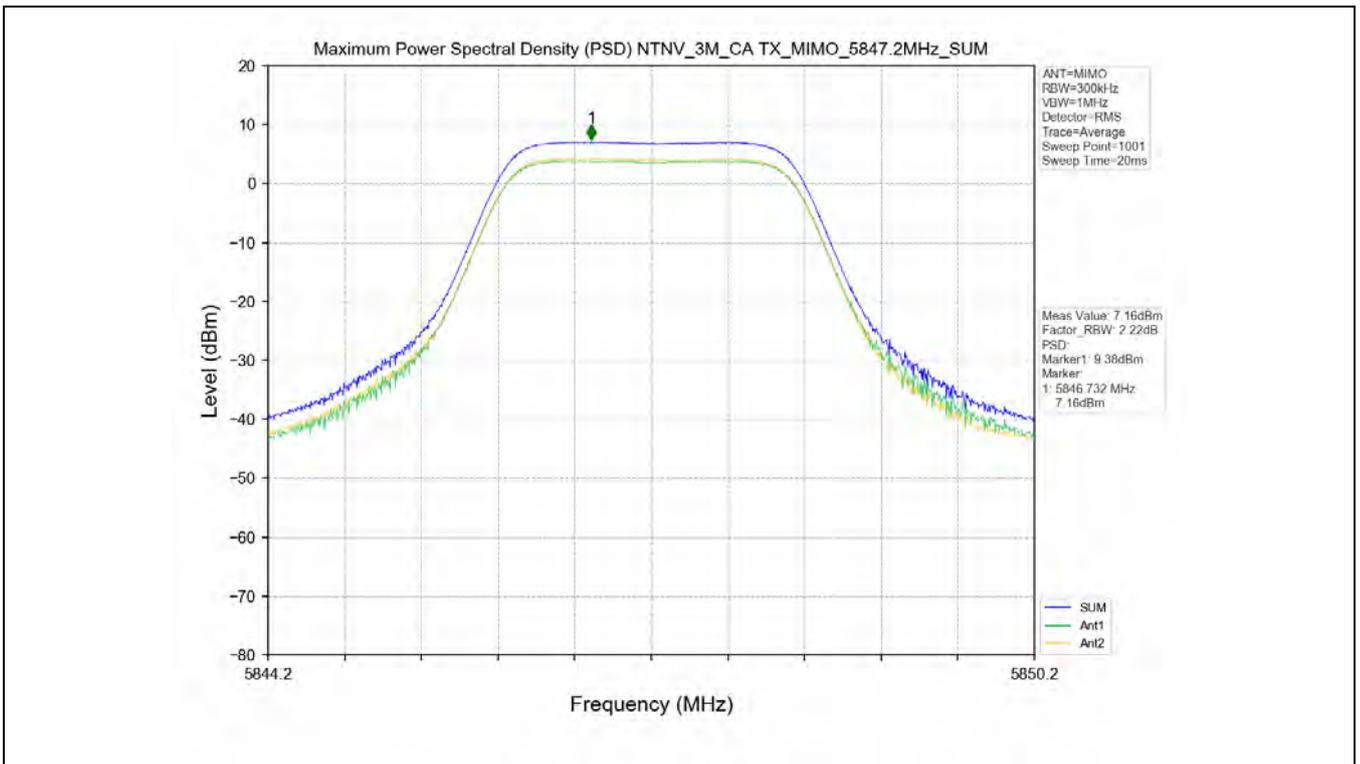
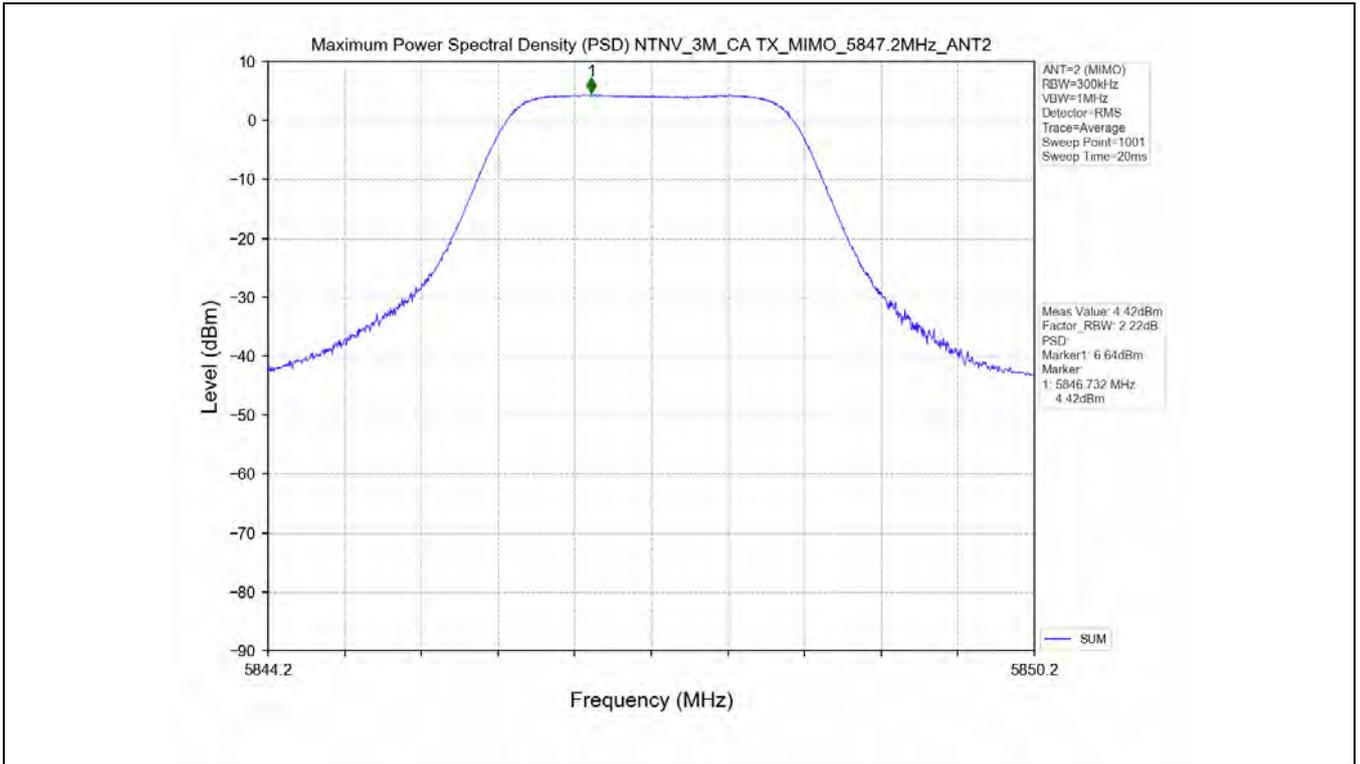
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5. Frequency Stability



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5.1 Test Result

Test Condition	Test Mode	Test Frequency [MHz]	Ant	Result [ppm]	Limit [ppm]	Verdict
NTNV	1.4M TX	5728.5	MIMO	-2.44	<=20	PASS
		5786.5	MIMO	-2.07	<=20	PASS
		5846.5	MIMO	-2.74	<=20	PASS
	1.4M_CA TX	5730.12	MIMO	-1.75	<=20	PASS
		5786.12	MIMO	-2.07	<=20	PASS
		5848.12	MIMO	-2.39	<=20	PASS
	3M TX	5730.5	MIMO	-0.52	<=20	PASS
		5787.5	MIMO	-1.04	<=20	PASS
		5844.5	MIMO	-0.51	<=20	PASS
	3M_CA TX	5733.2	MIMO	-0.52	<=20	PASS
		5790.2	MIMO	-0.52	<=20	PASS
		5847.2	MIMO	-0.51	<=20	PASS



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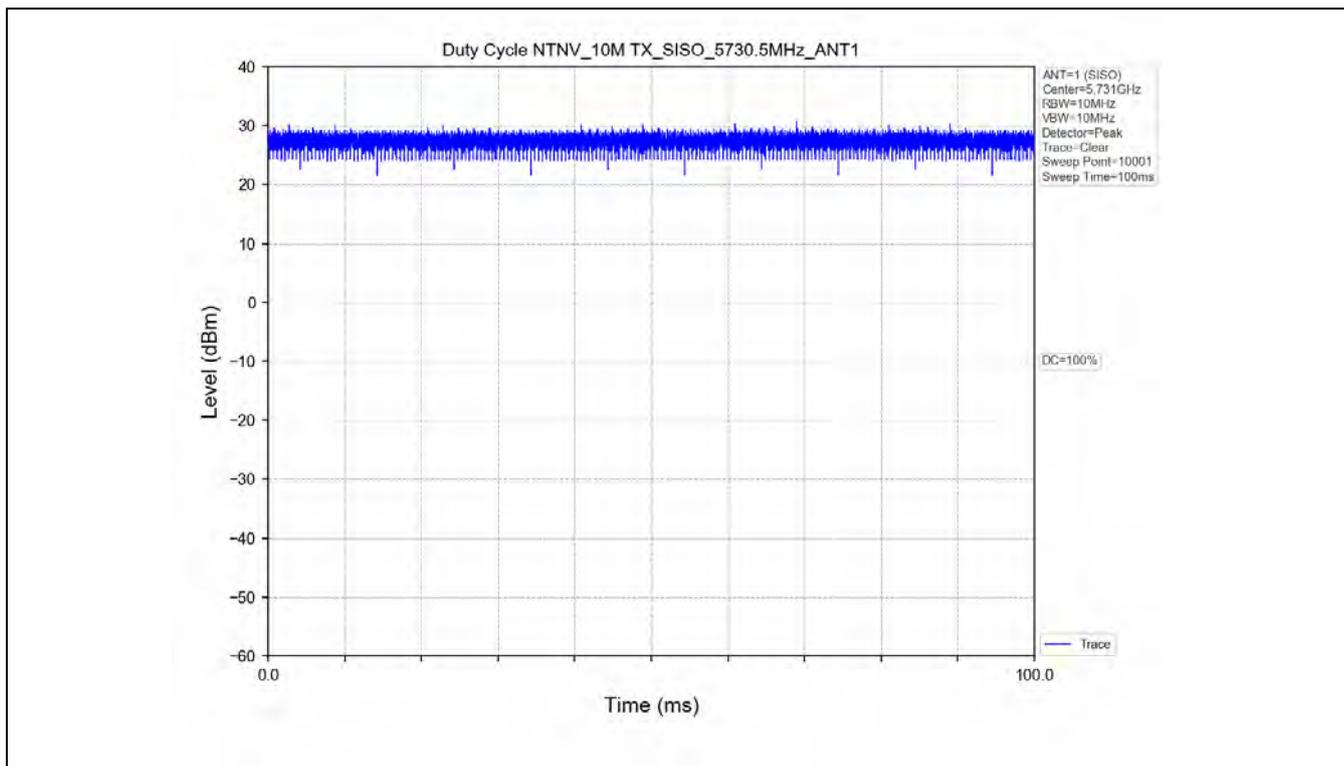
10M,20M,40M-SISO

1. Duty Cycle

1.1 Test Result

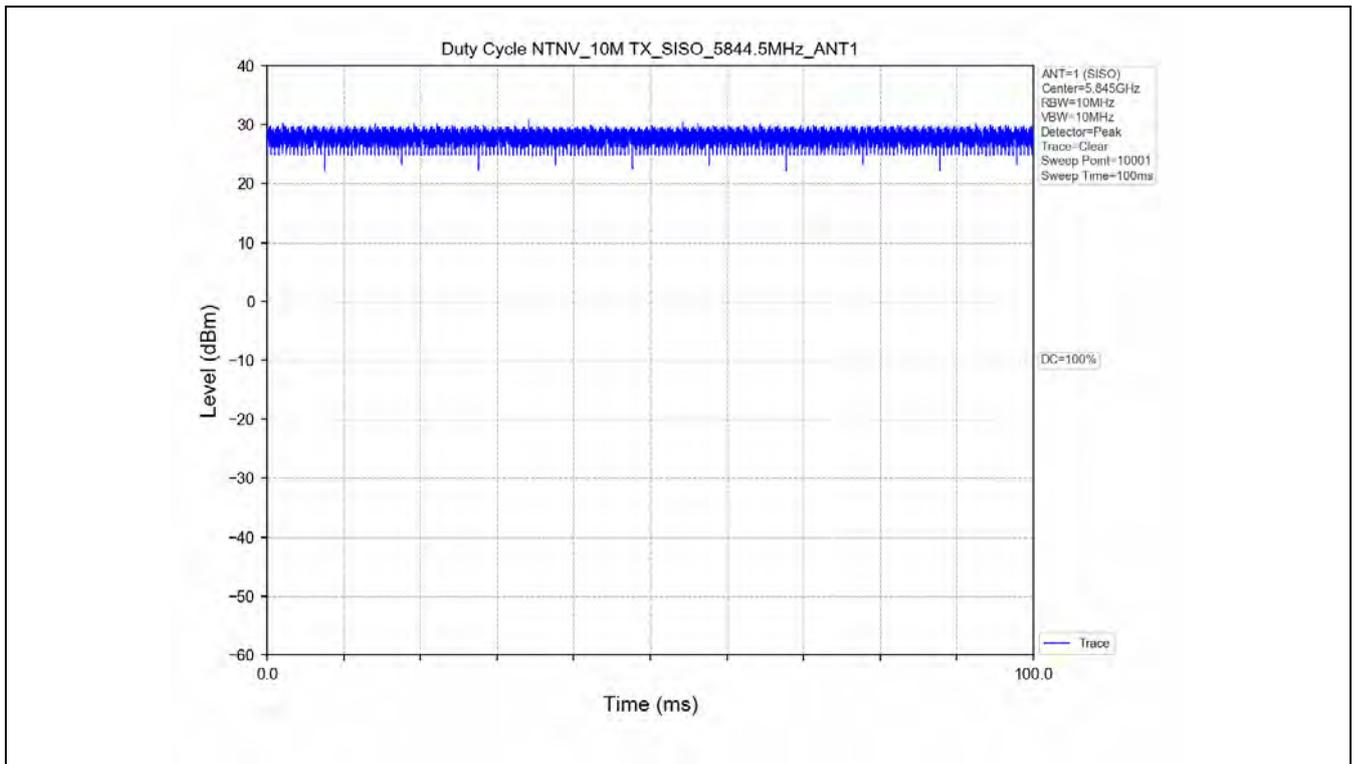
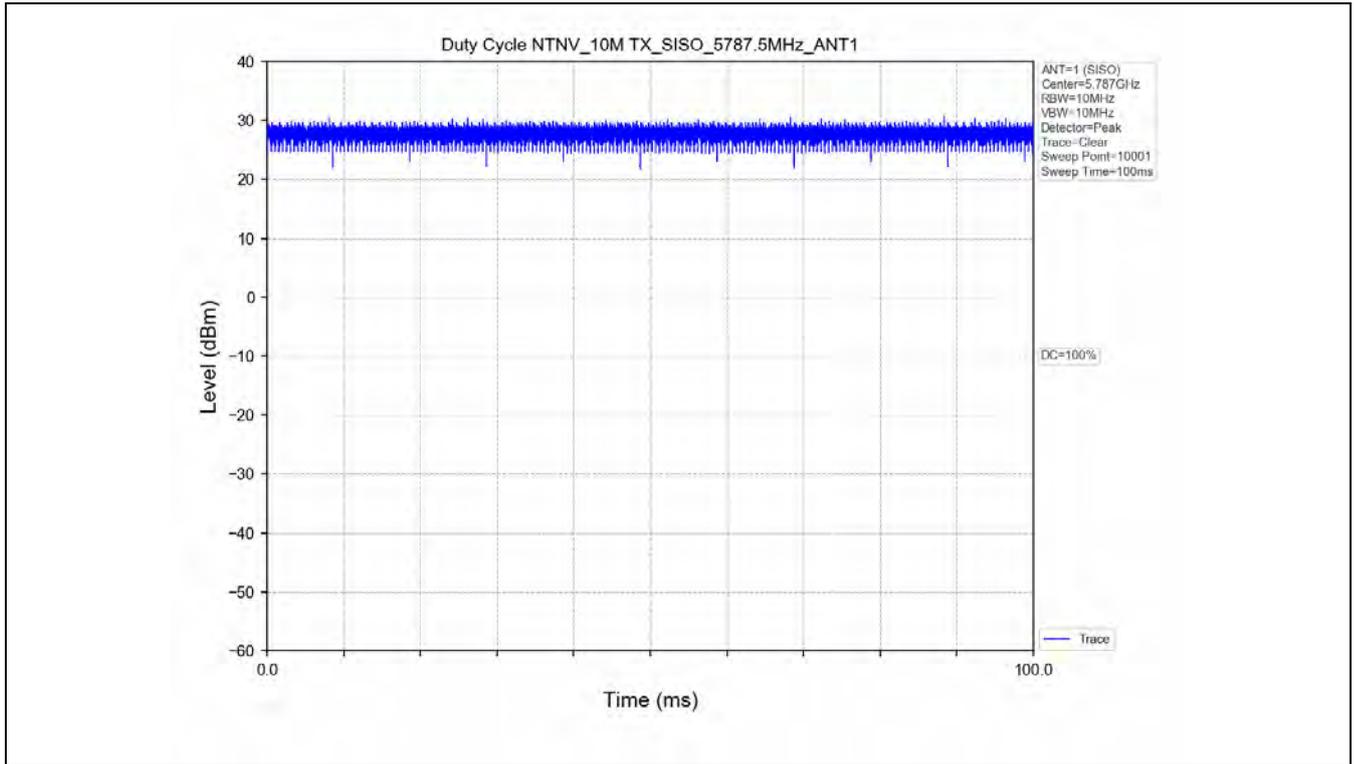
Test Mode	Channel Frequency (MHz)	TX Type	ANT No.	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)
10M TX-10M	5730.5	SISO	1	100.000	100.000	100.00	0.00
	5787.5	SISO	1	100.000	100.000	100.00	0.00
	5844.5	SISO	1	100.000	100.000	100.00	0.00
20M TX-20M	5735.5	SISO	1	100.000	100.000	100.00	0.00
	5787.5	SISO	1	100.000	100.000	100.00	0.00
	5839.5	SISO	1	100.000	100.000	100.00	0.00
40M TX-40M	5745.5	SISO	1	100.000	100.000	100.00	0.00
	5787.5	SISO	1	100.000	100.000	100.00	0.00
	5829.5	SISO	1	100.000	100.000	100.00	0.00

1.2 Test Graph



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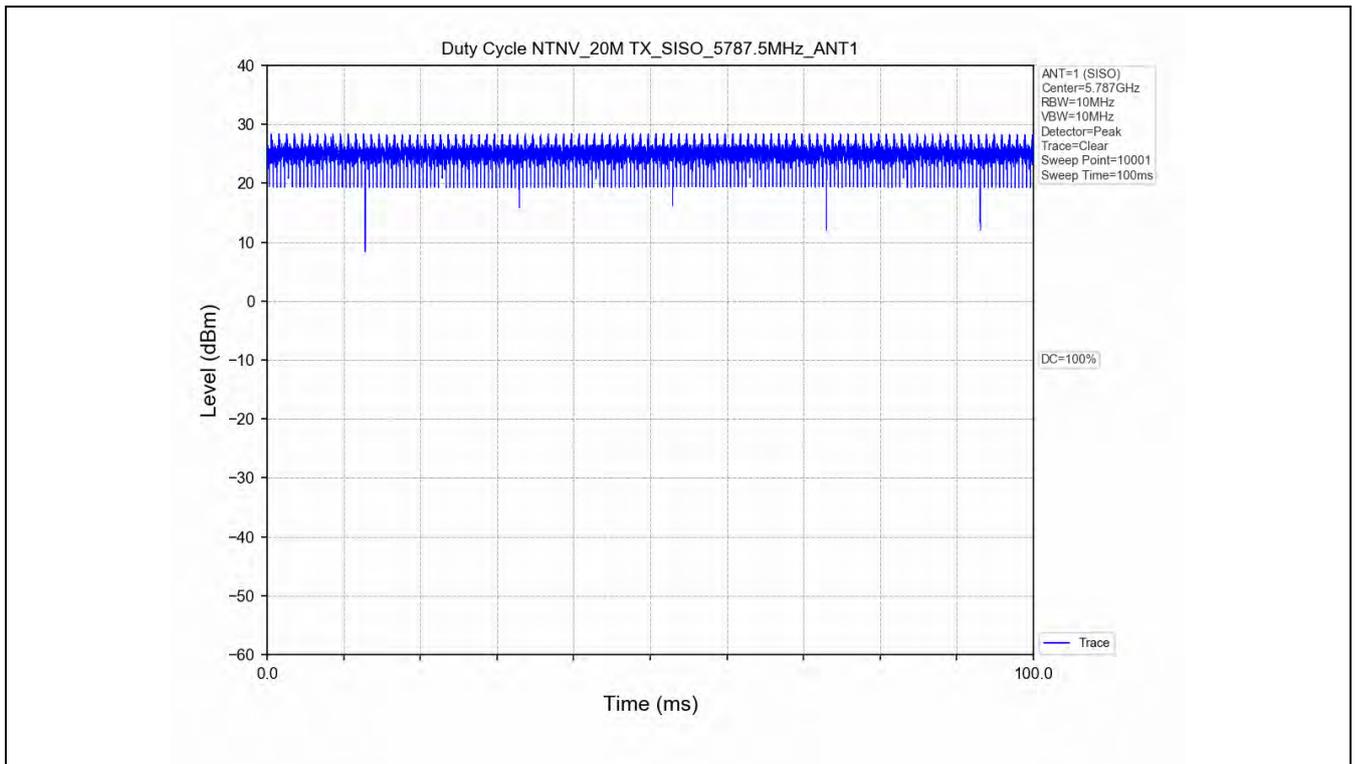
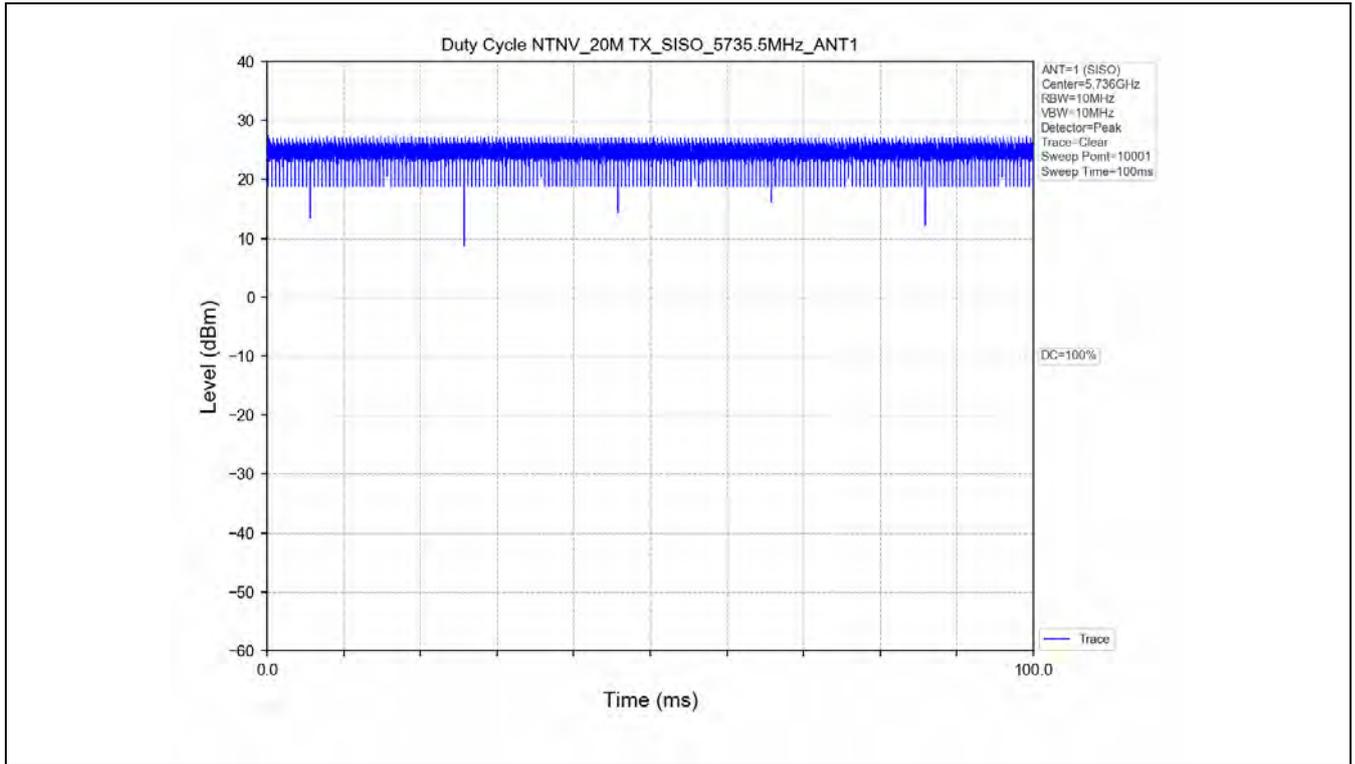
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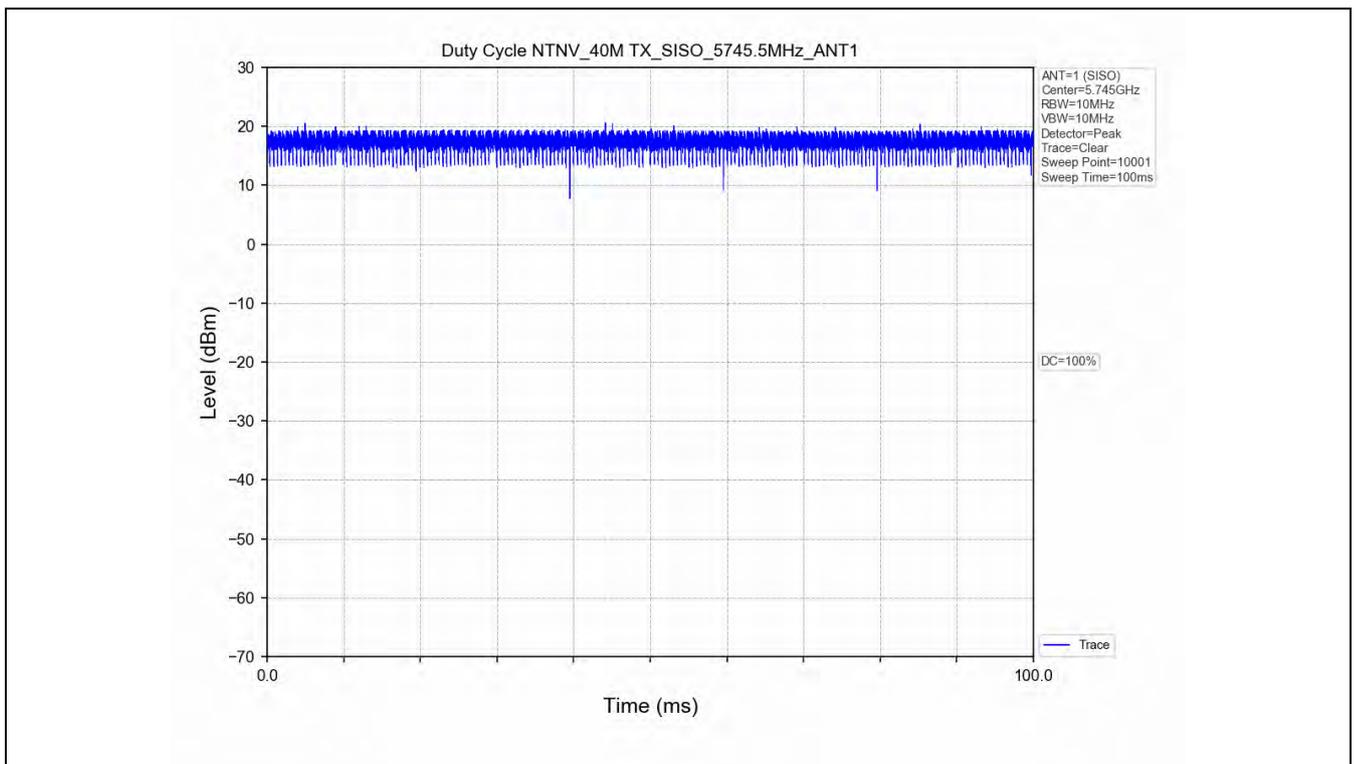
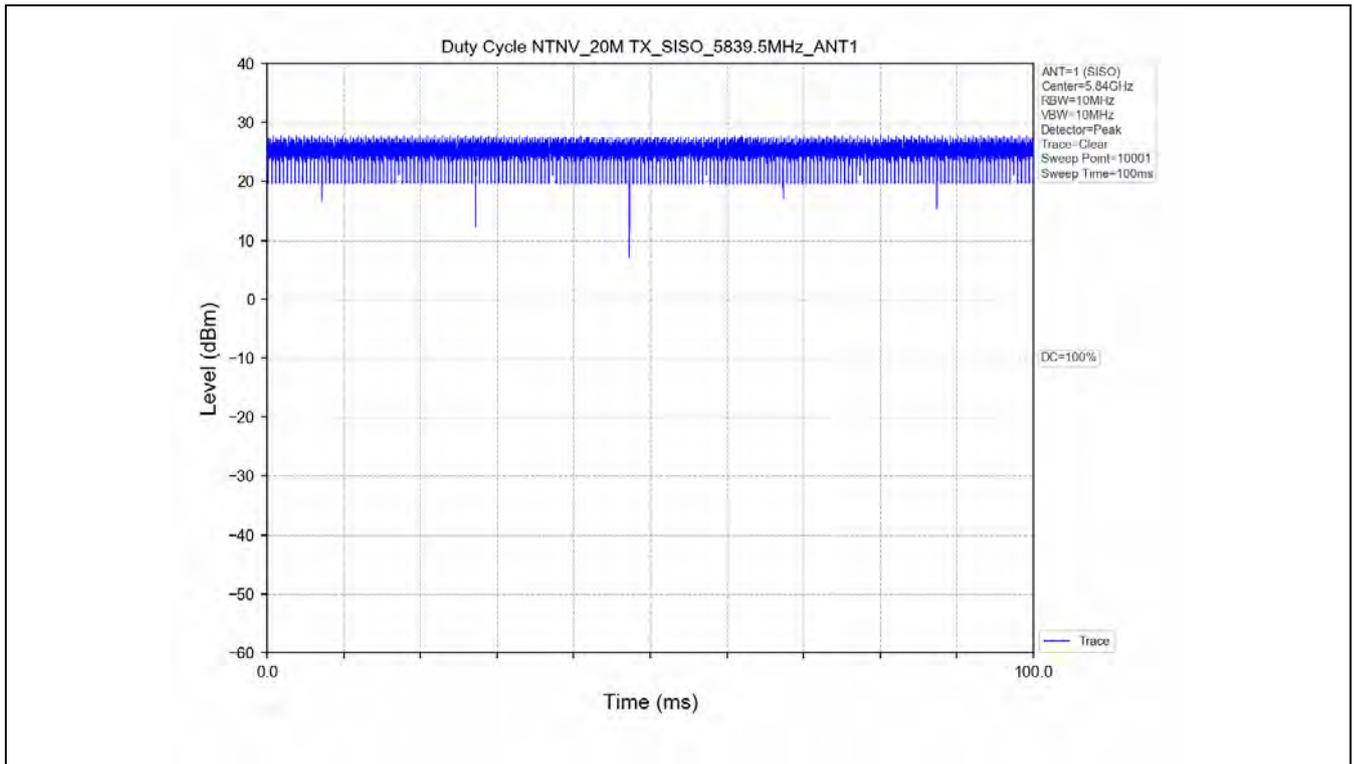
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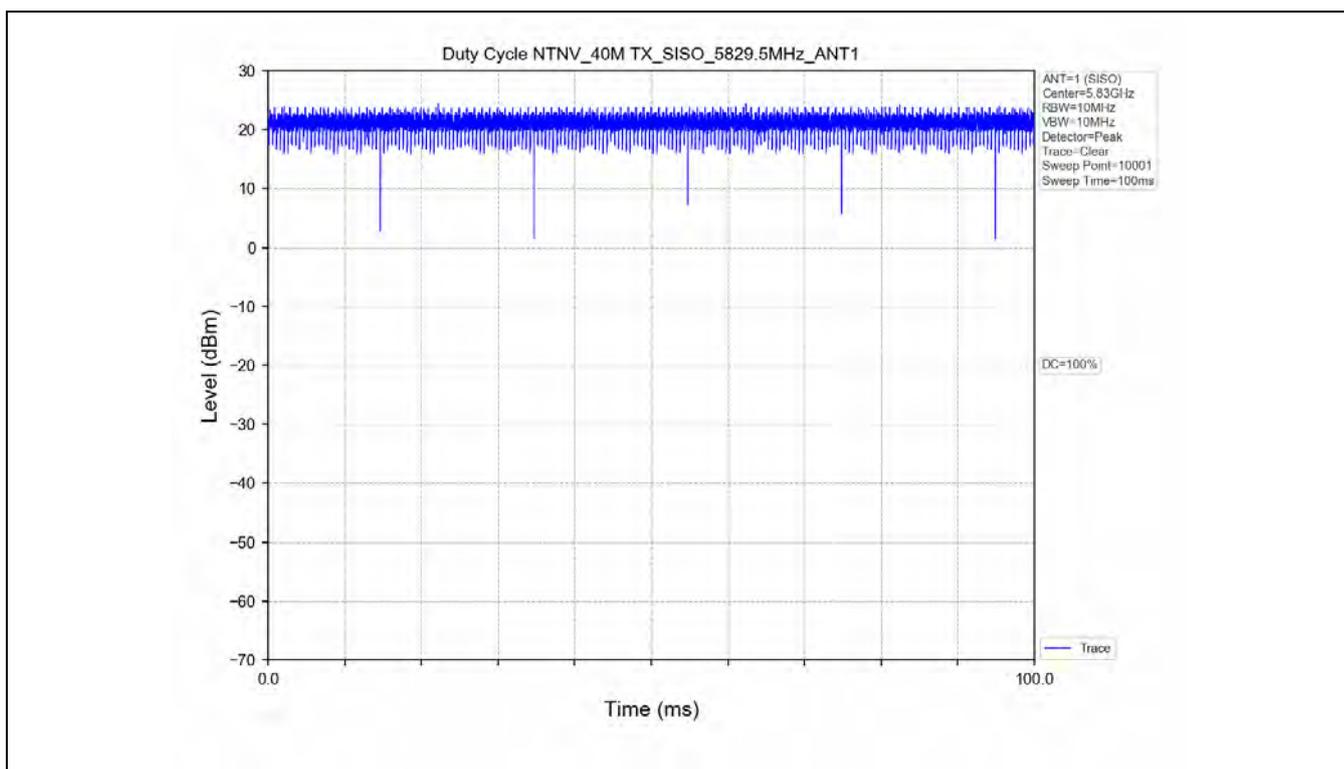
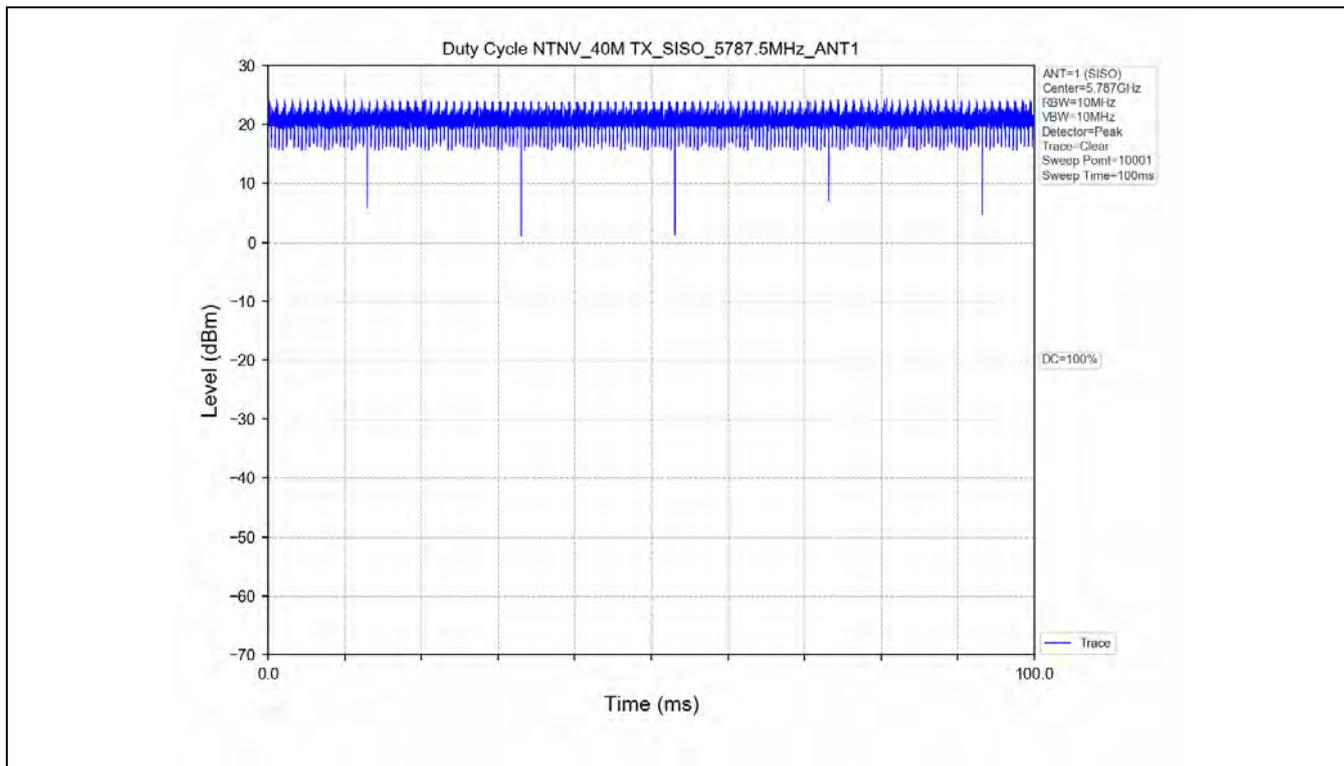
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2. Bandwidth

2.1 Test Result

Test Mode	Frequency (MHz)	TX Type	ANT No.	6dB Emission Bandwidth		Verdict
				Test Result (MHz)	Limits (MHz)	
10M TX-10M	5730.5	SISO	1	8.997	≥0.5	PASS
	5787.5	SISO	1	9.002	≥0.5	PASS
	5844.5	SISO	1	9.021	≥0.5	PASS
20M TX-20M	5735.5	SISO	1	17.969	≥0.5	PASS
	5787.5	SISO	1	17.978	≥0.5	PASS
	5839.5	SISO	1	17.986	≥0.5	PASS
40M TX-40M	5745.5	SISO	1	36.012	≥0.5	PASS
	5787.5	SISO	1	36.108	≥0.5	PASS
	5829.5	SISO	1	35.954	≥0.5	PASS

Test Mode	Frequency (MHz)	TX Type	ANT No.	99% Occupied Bandwidth	
				Test Result (MHz)	
10M TX-10M	5730.5	SISO	1	9.103	Only for Report Use
	5787.5	SISO	1	9.091	Only for Report Use
	5844.5	SISO	1	9.167	Only for Report Use
20M TX-20M	5735.5	SISO	1	18.572	Only for Report Use
	5787.5	SISO	1	18.539	Only for Report Use
	5839.5	SISO	1	18.776	Only for Report Use
40M TX-40M	5745.5	SISO	1	37.115	Only for Report Use
	5787.5	SISO	1	36.987	Only for Report Use
	5829.5	SISO	1	37.224	Only for Report Use

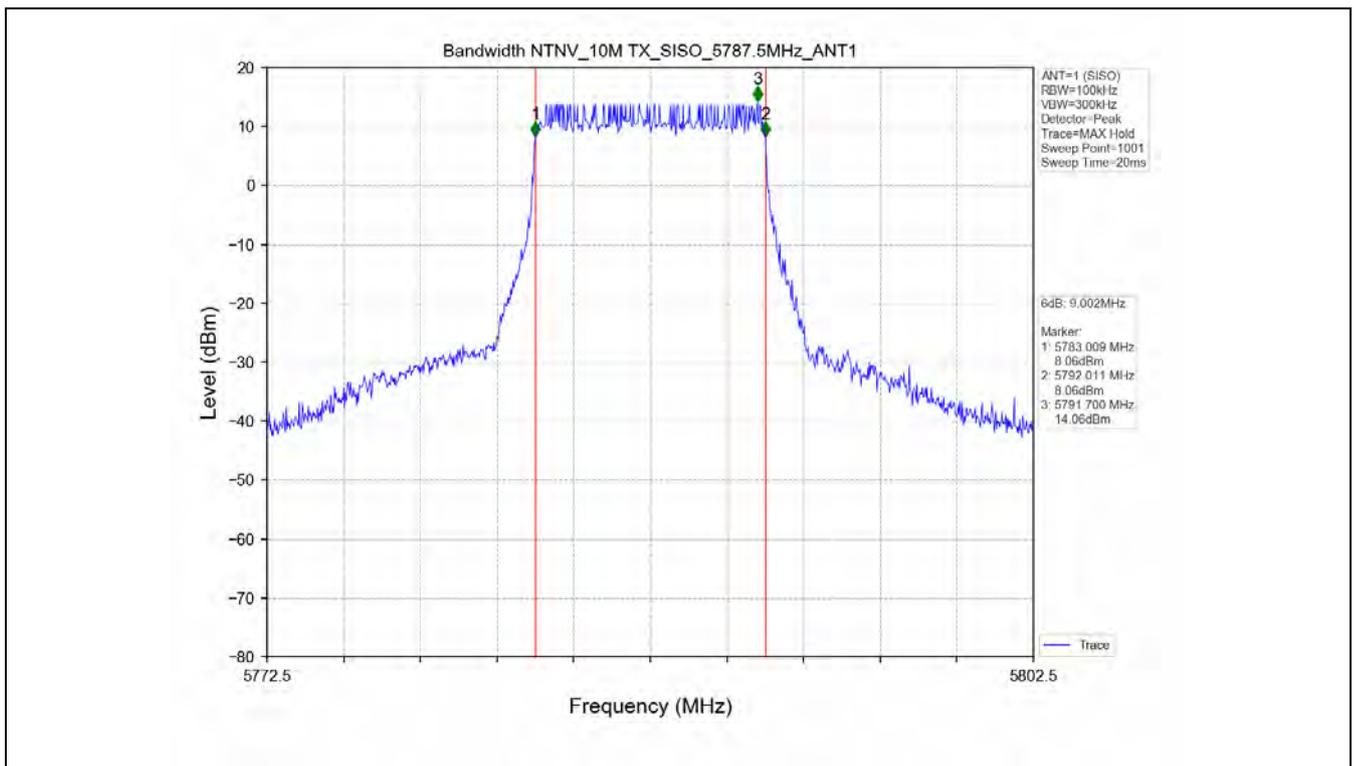
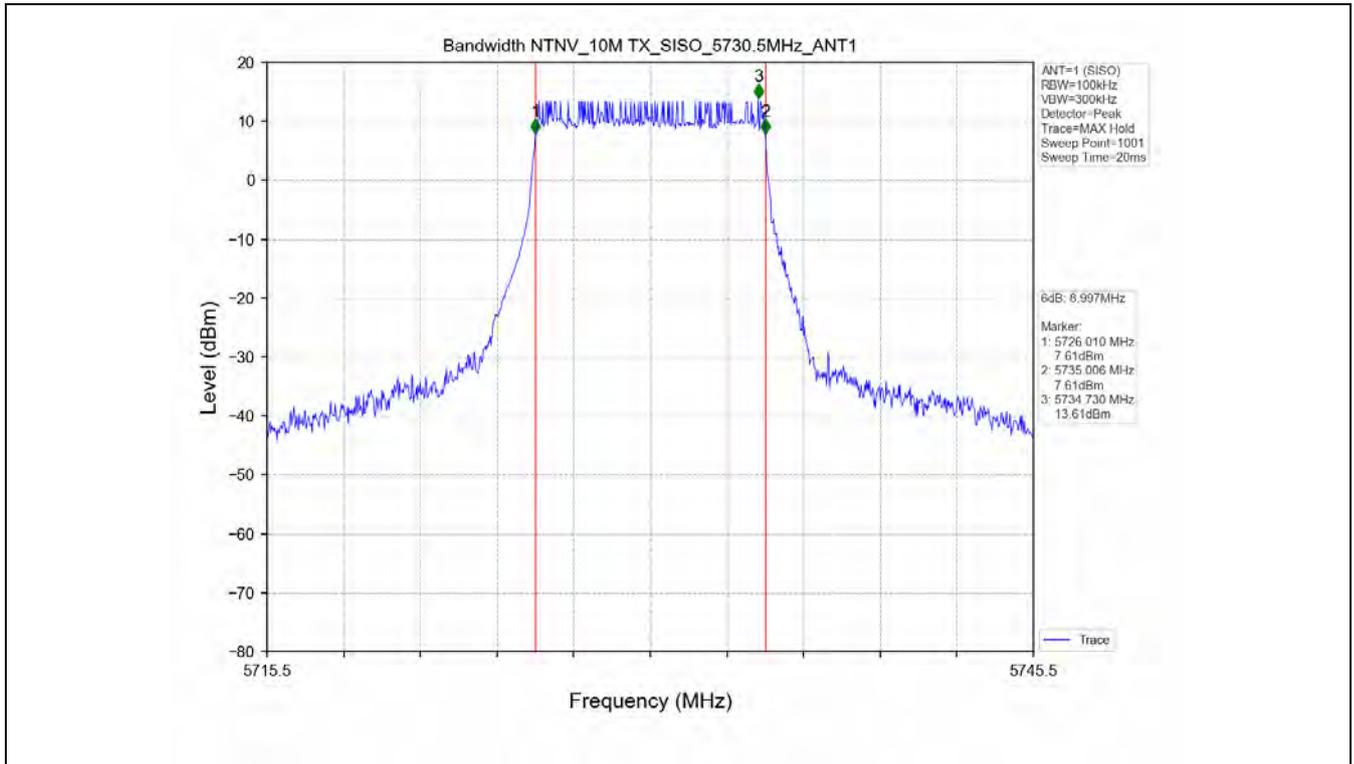


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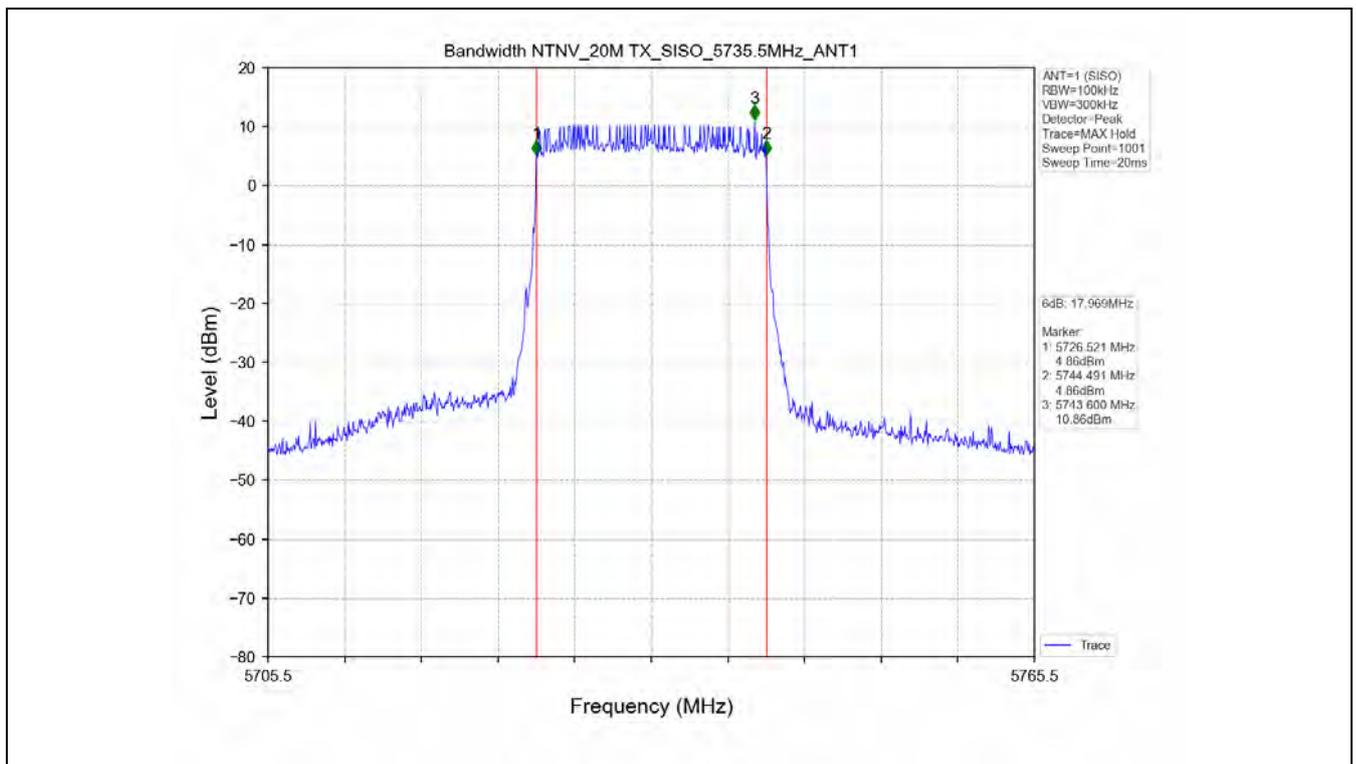
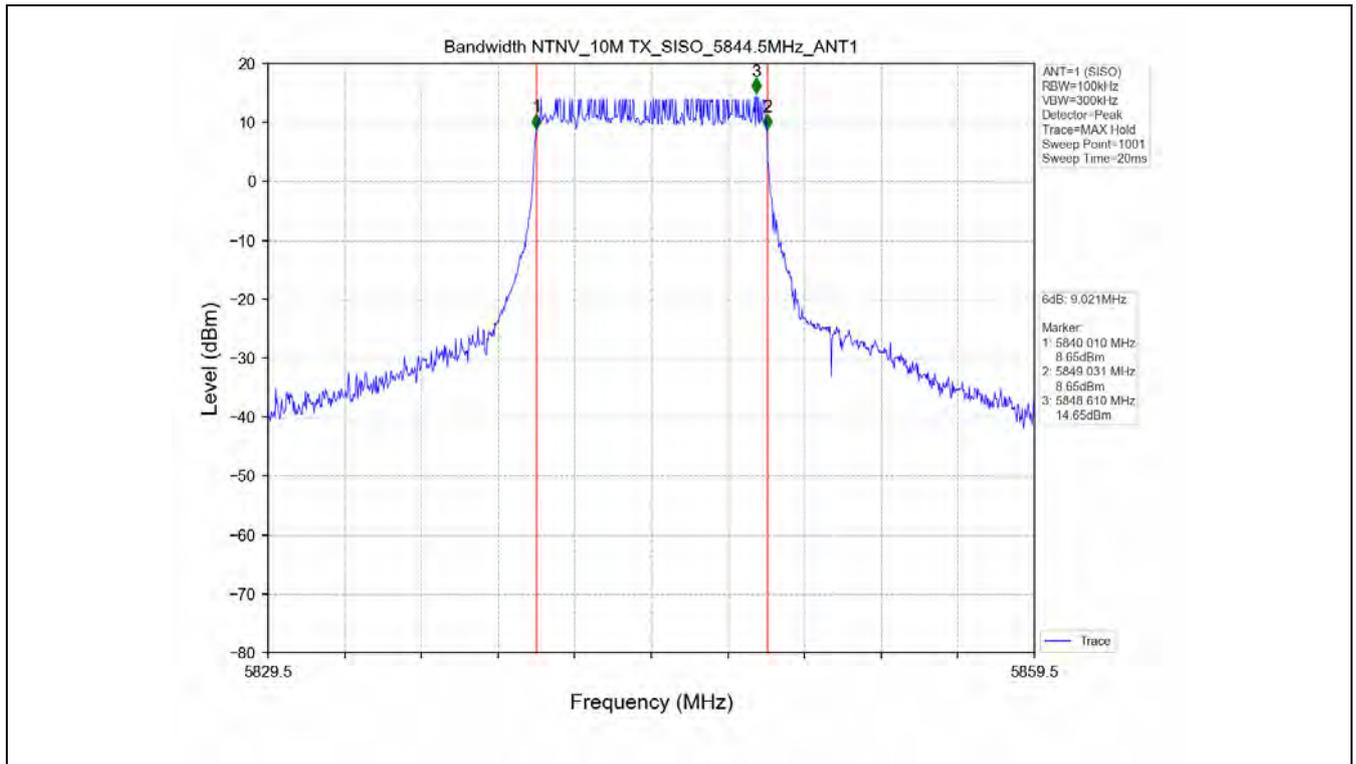
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2.2 Test Graph - Emission Bandwidth

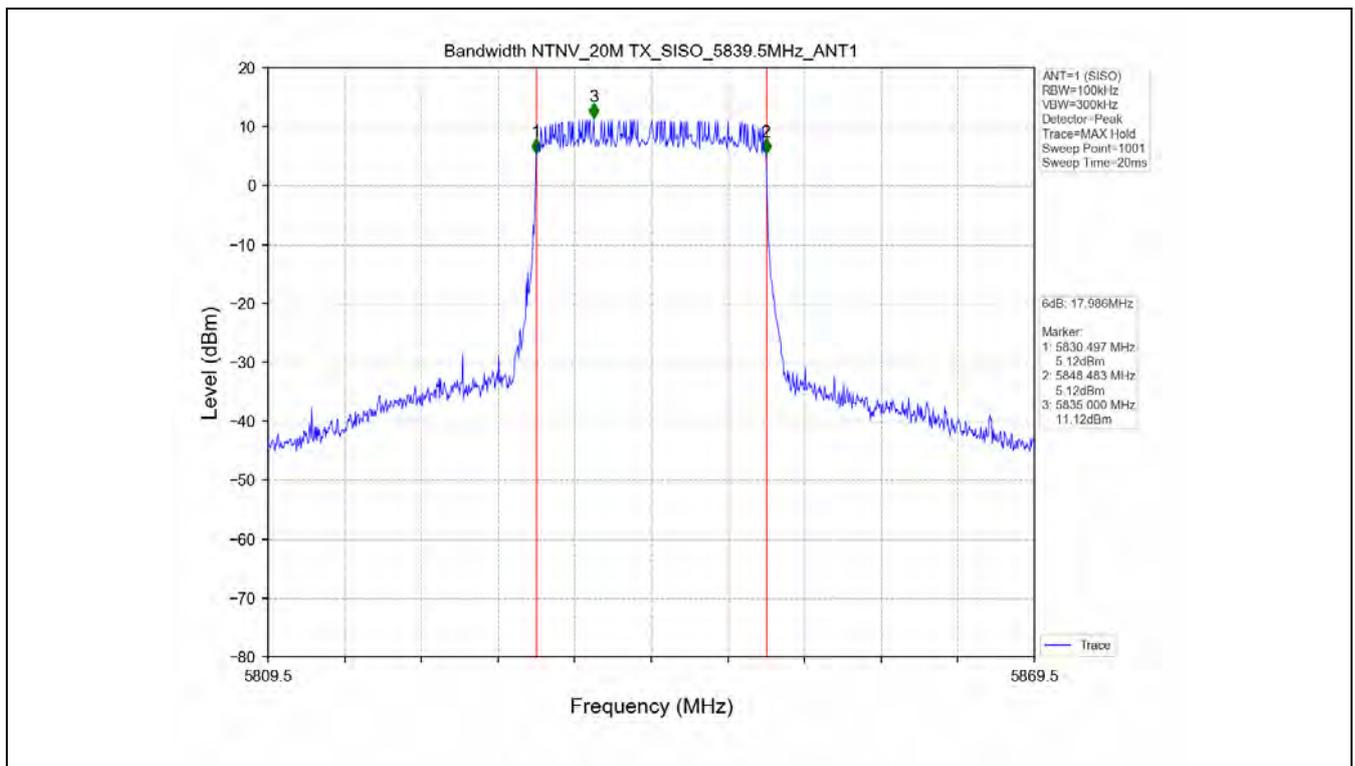
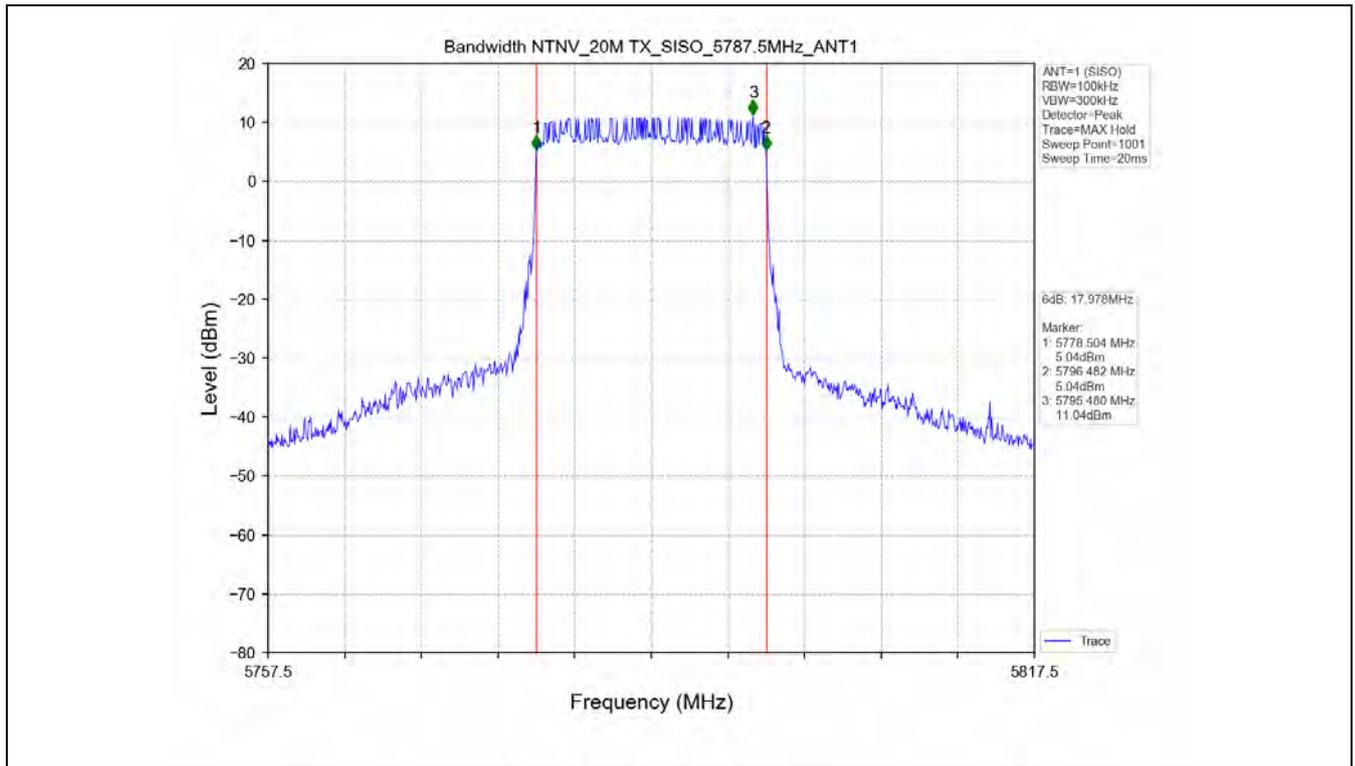


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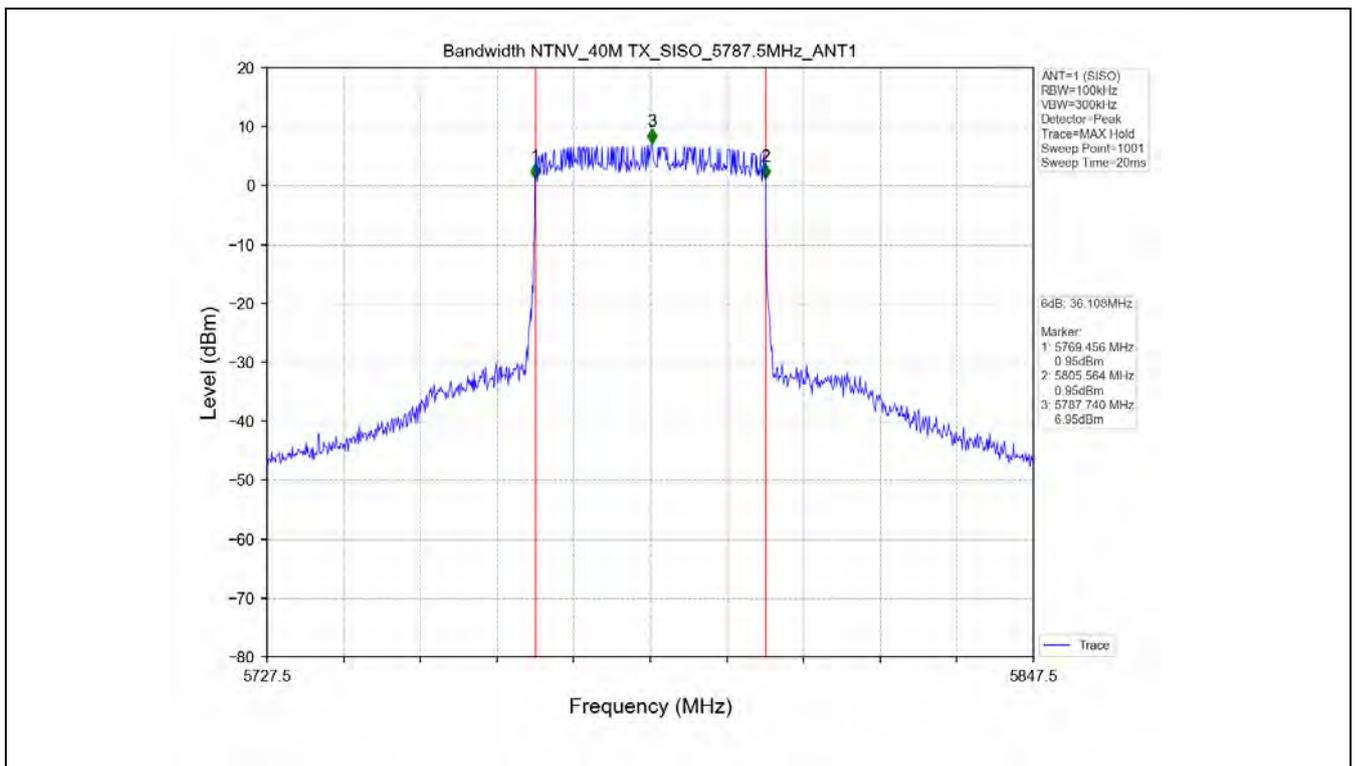
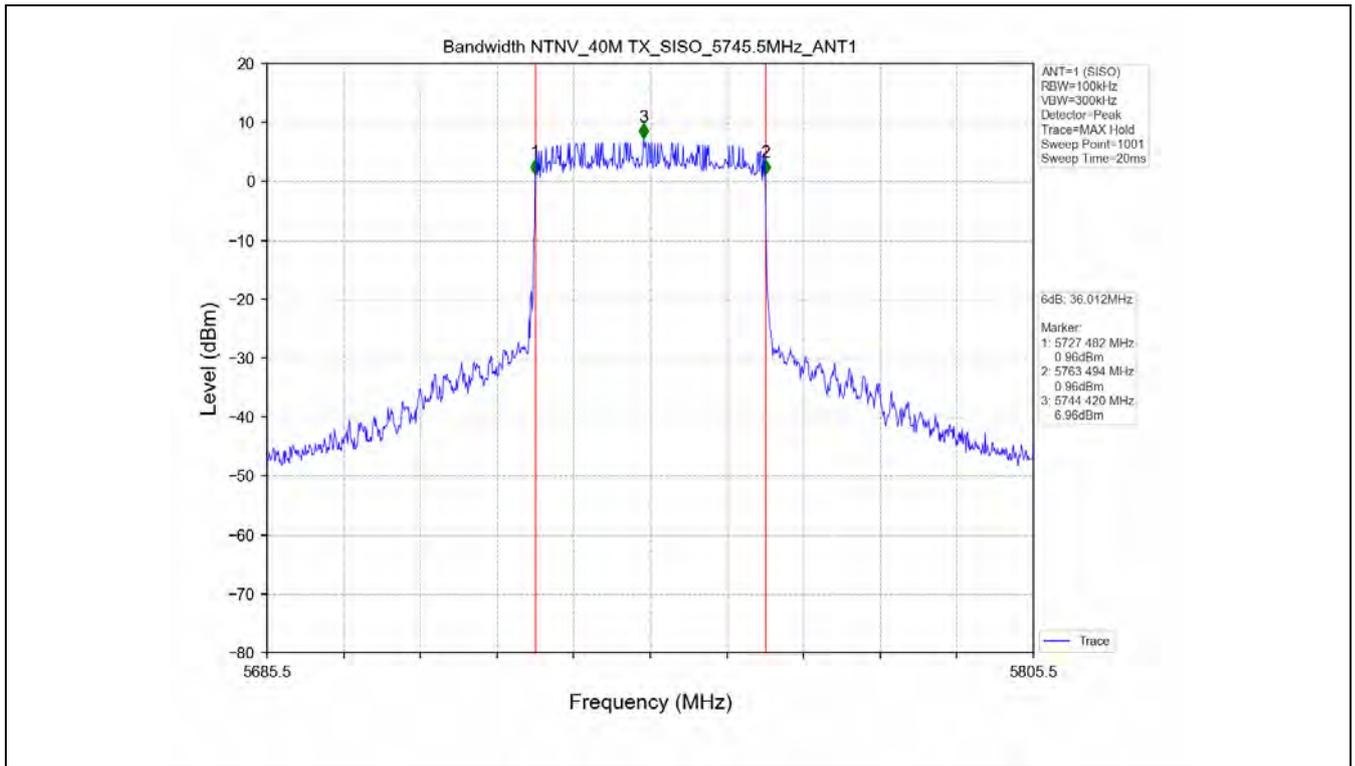
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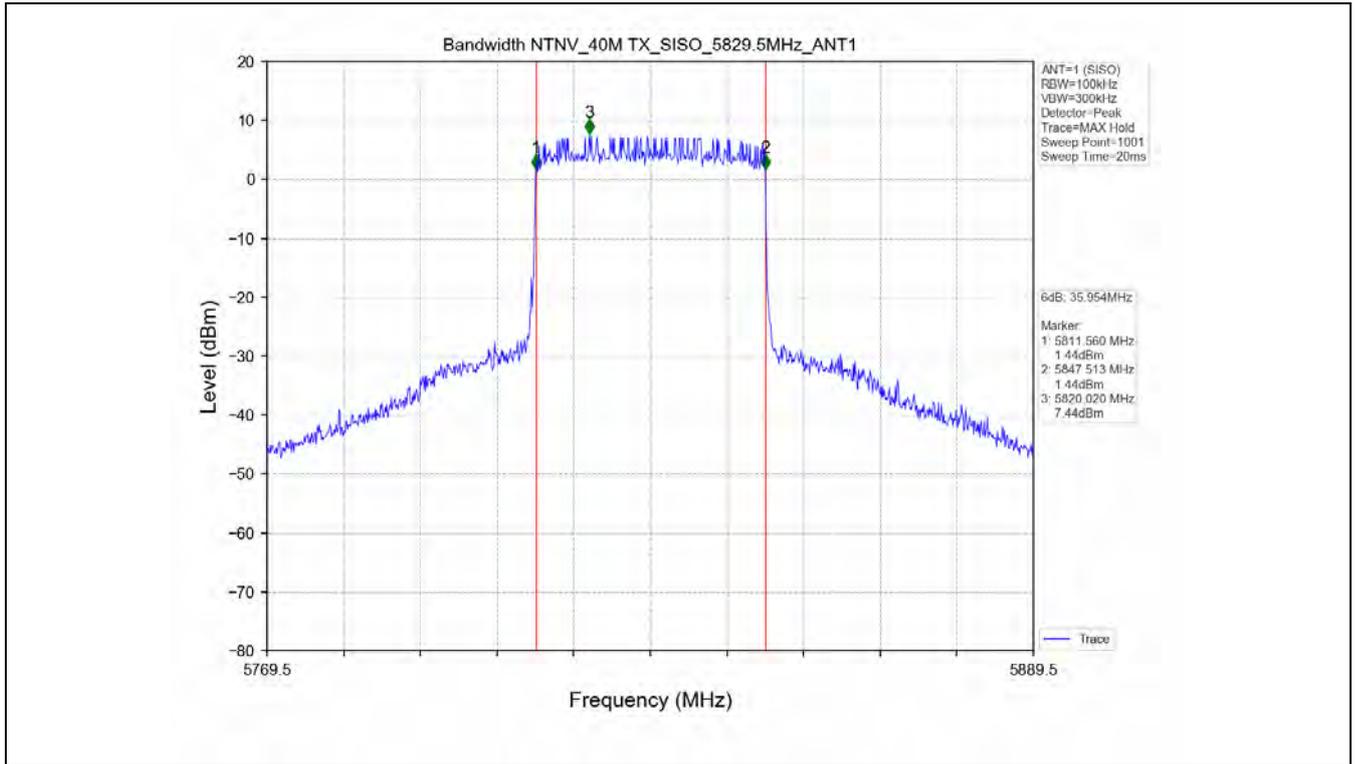
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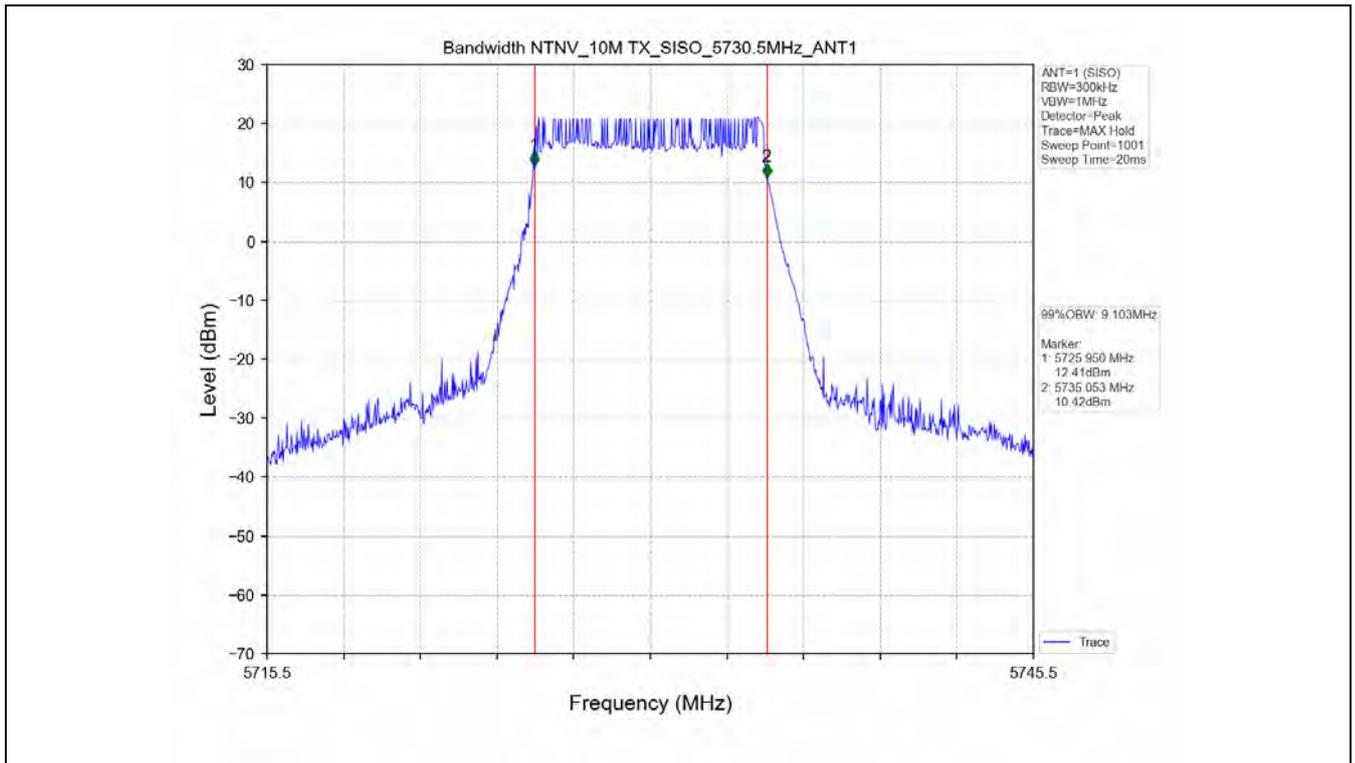
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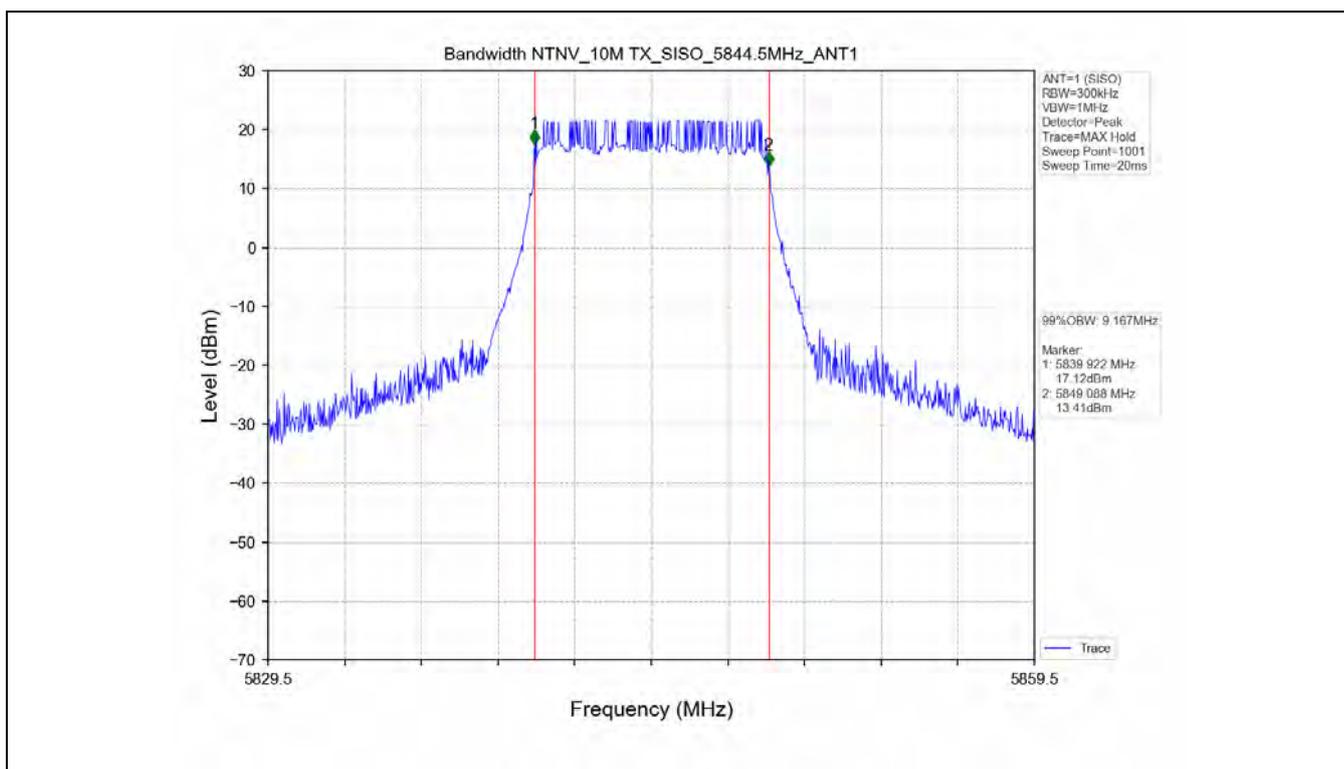
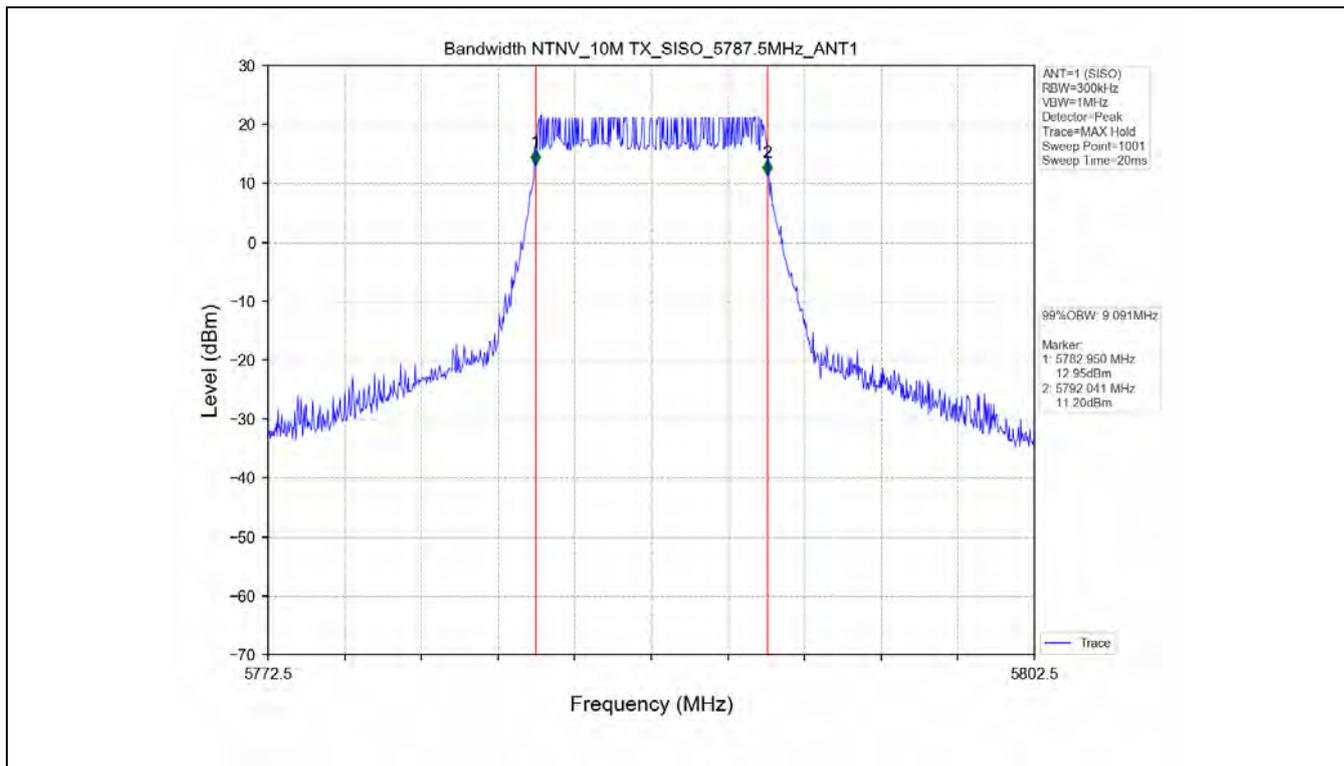


2.3 Test Graph - 99% Occupied Bandwidth



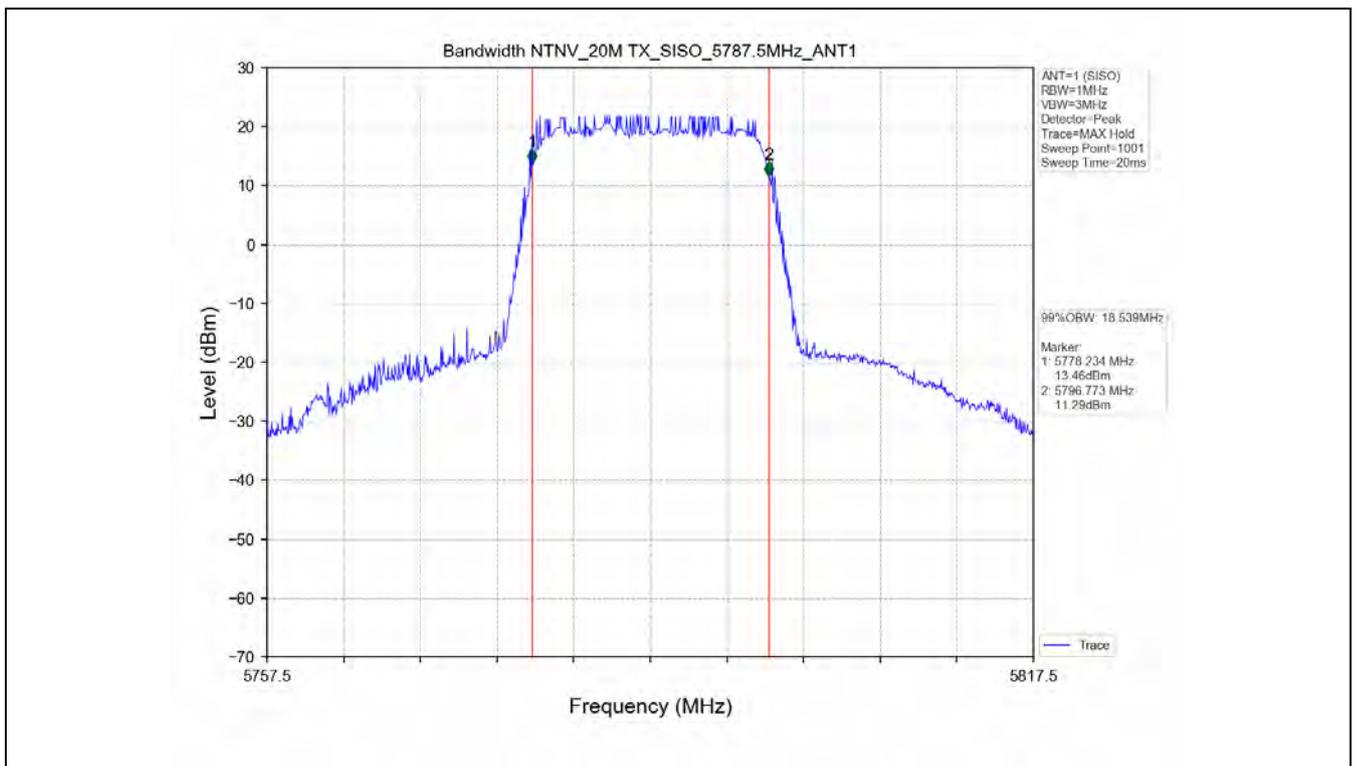
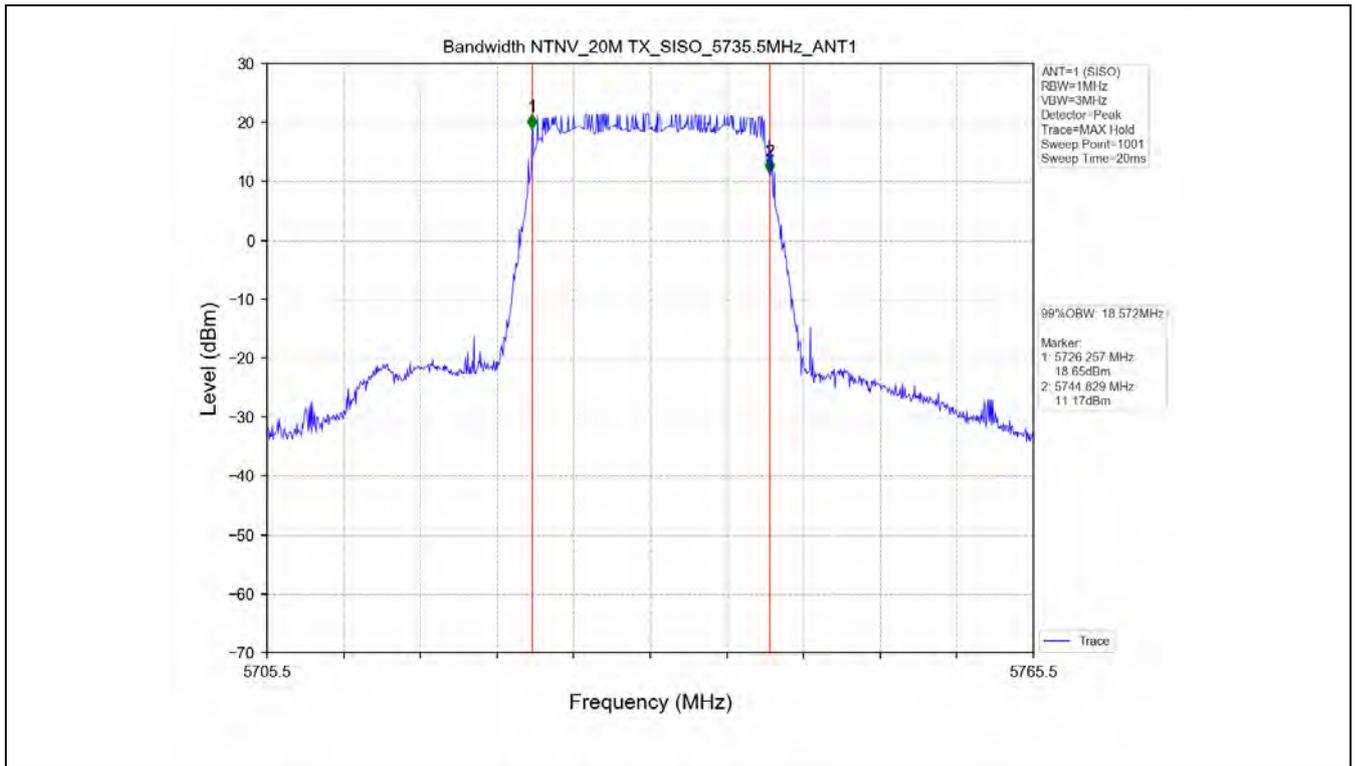
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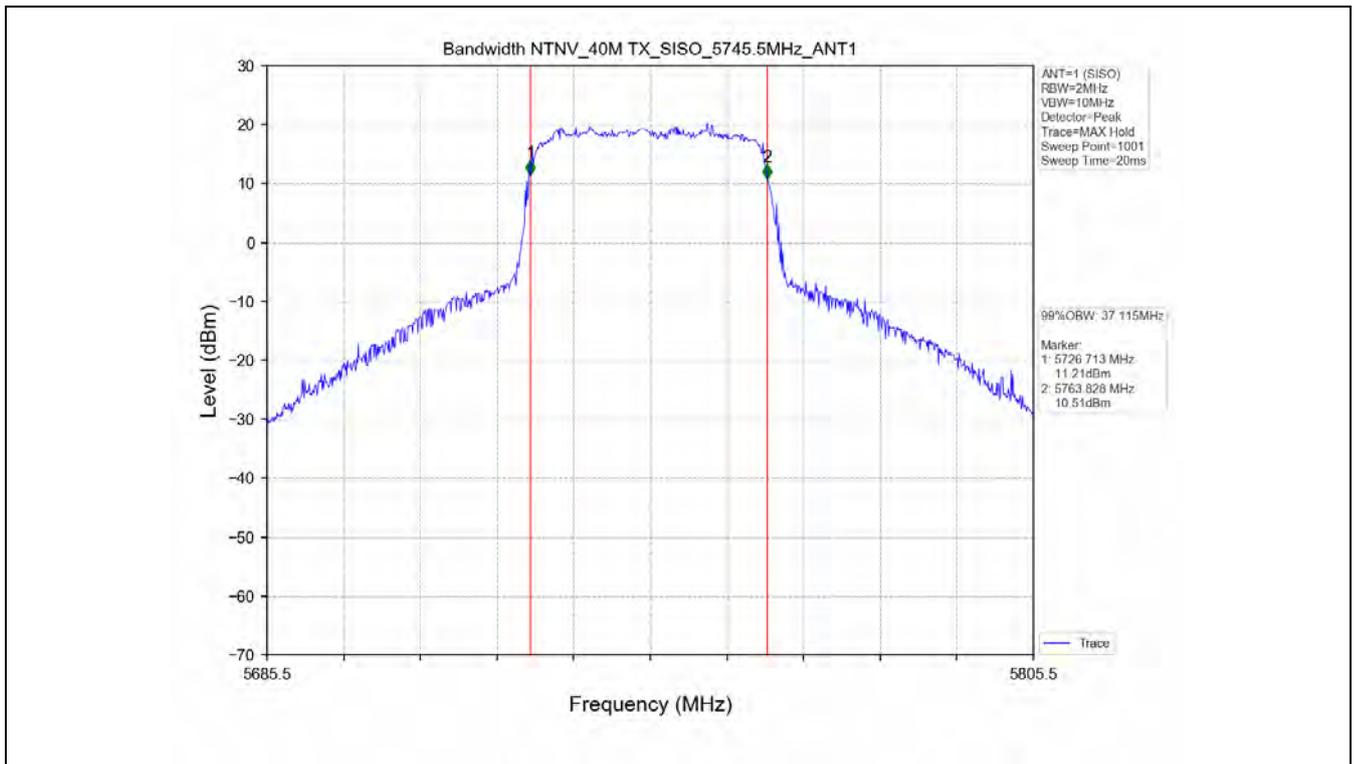
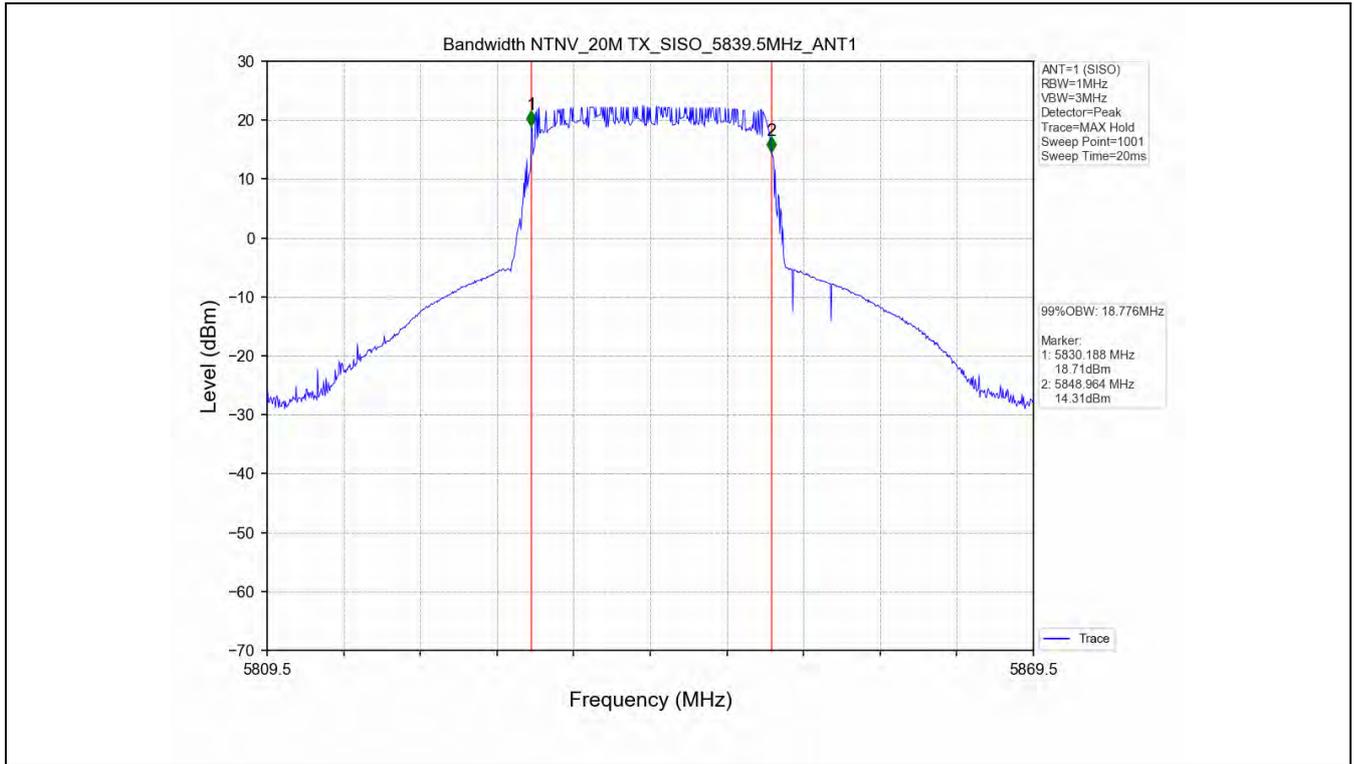
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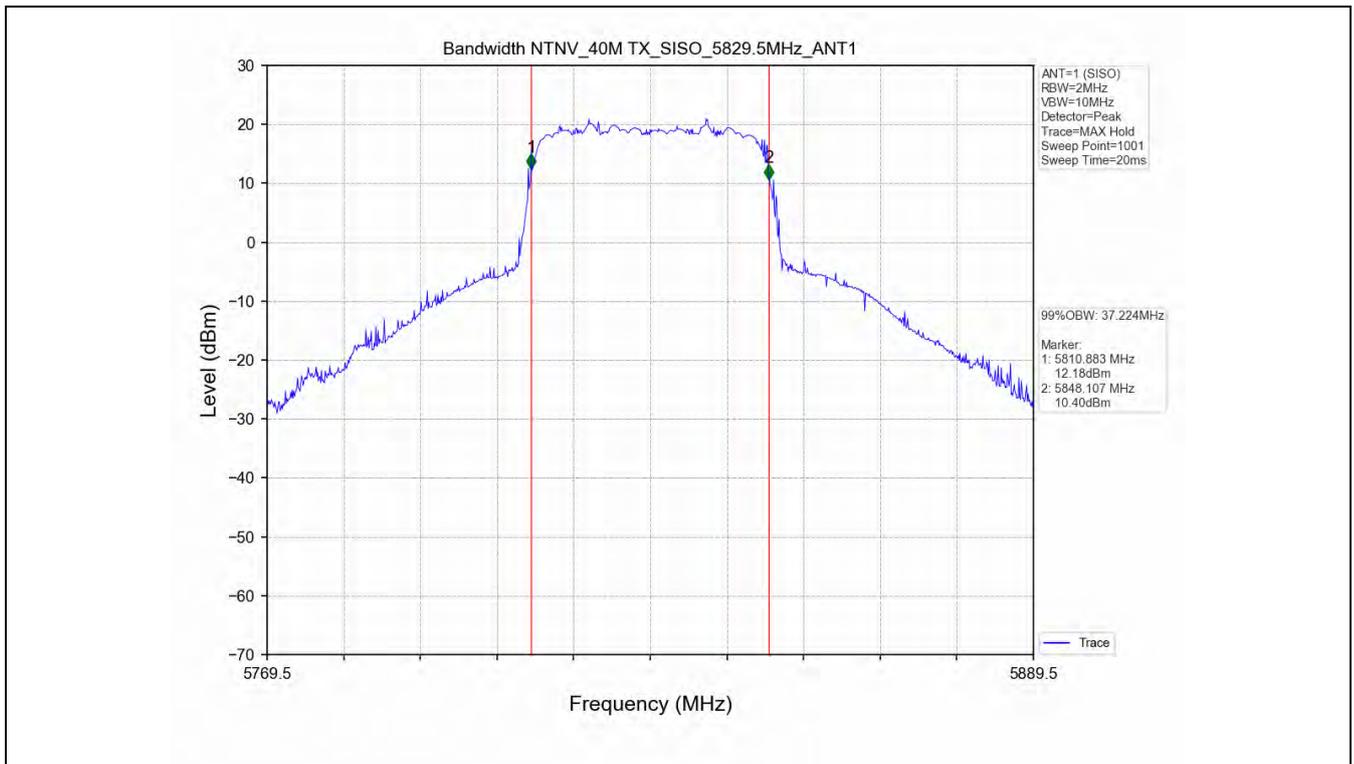
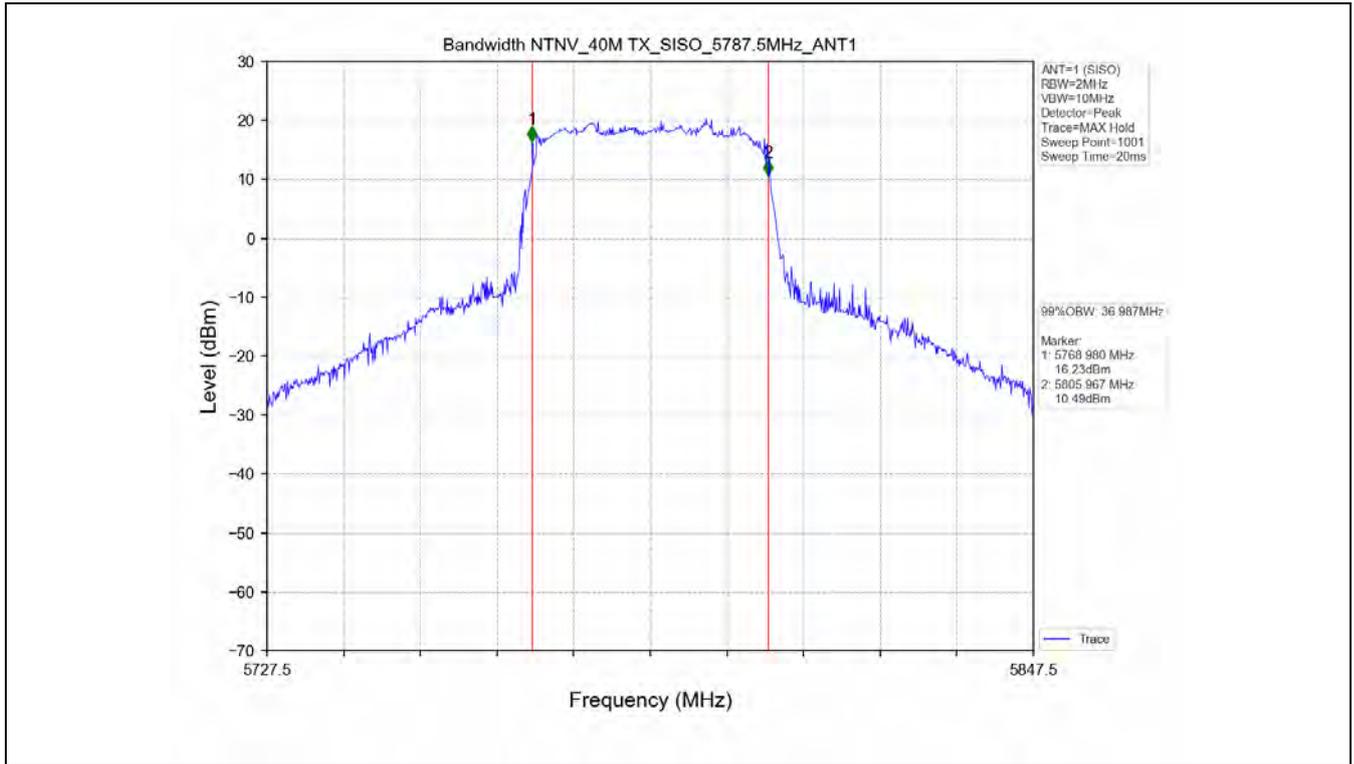


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3. Maximum Conducted Output Power

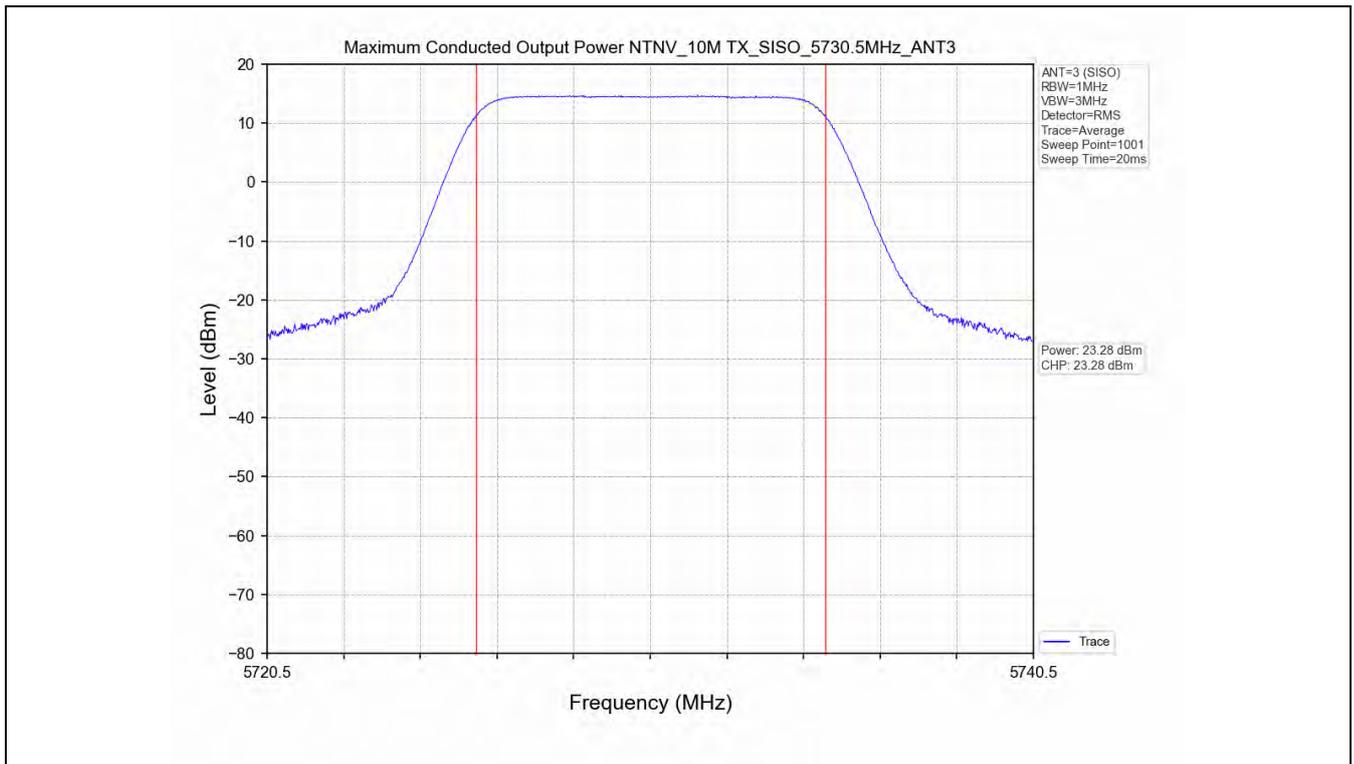
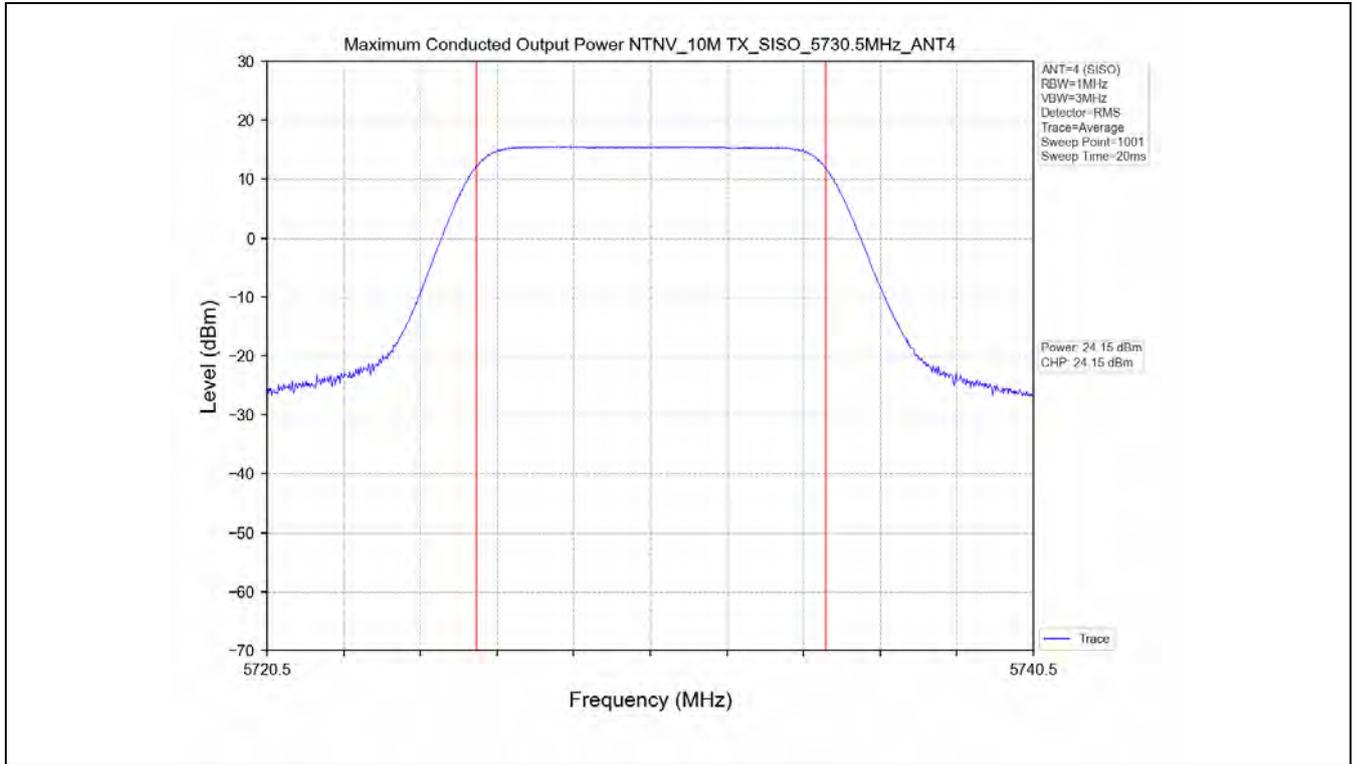
3.1 Test Result

Test Mode	Frequency (MHz)	Tx Type	Measured Output Power (dBm)				Limit (dBm)	Verdict
			Ant 4	Ant 3	Ant 2	Ant 1		
10M TX-10M	5730.5	SISO	24.15	23.28	21.47	21.00	≤30.00	PASS
	5787.5	SISO	24.10	23.46	22.11	21.36	≤30.00	PASS
	5844.5	SISO	24.47	23.73	22.09	21.69	≤30.00	PASS
20M TX-20M	5735.5	SISO	23.97	23.23	21.04	20.90	≤30.00	PASS
	5787.5	SISO	24.05	23.47	21.72	21.32	≤30.00	PASS
	5839.5	SISO	24.47	23.78	21.73	21.66	≤30.00	PASS
40M TX-40M	5745.5	SISO	22.75	22.42	20.48	20.11	≤30.00	PASS
	5787.5	SISO	22.97	22.45	20.73	20.17	≤30.00	PASS
	5829.5	SISO	23.48	22.86	20.89	20.71	≤30.00	PASS



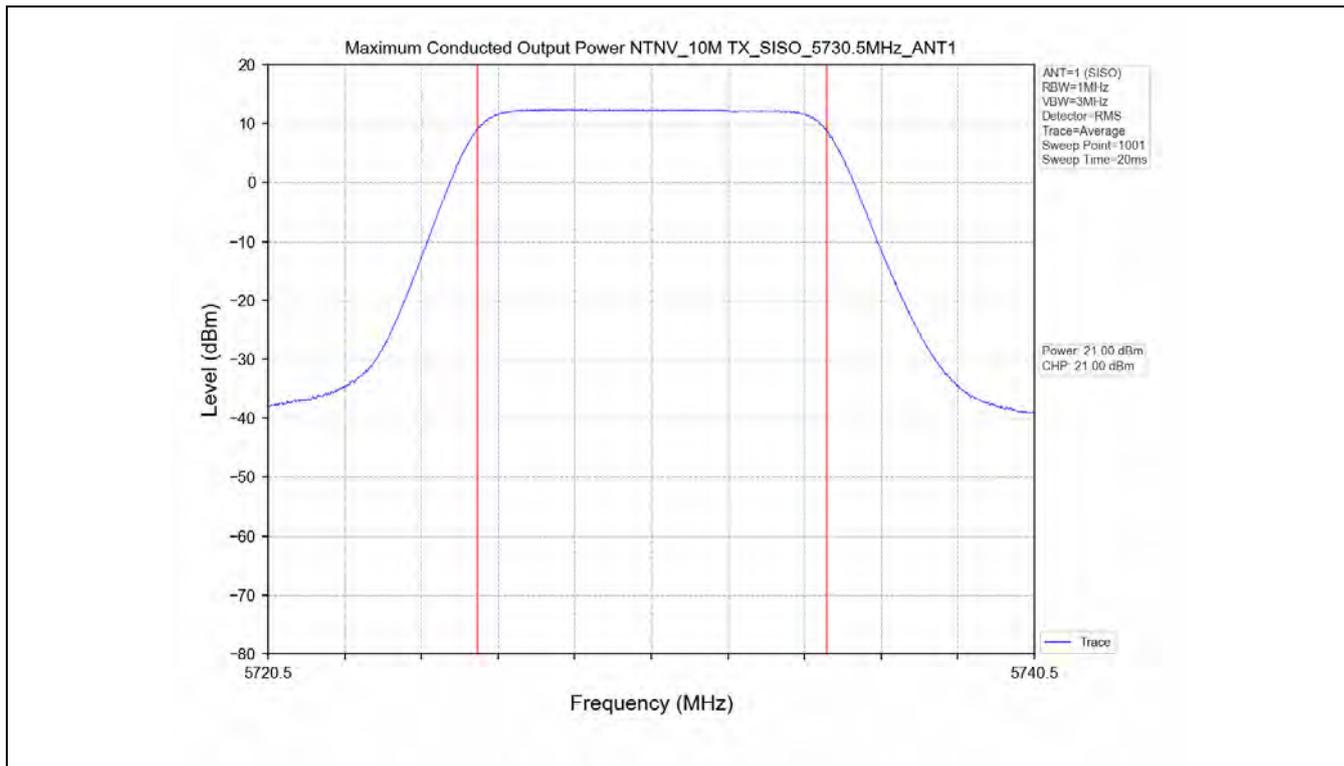
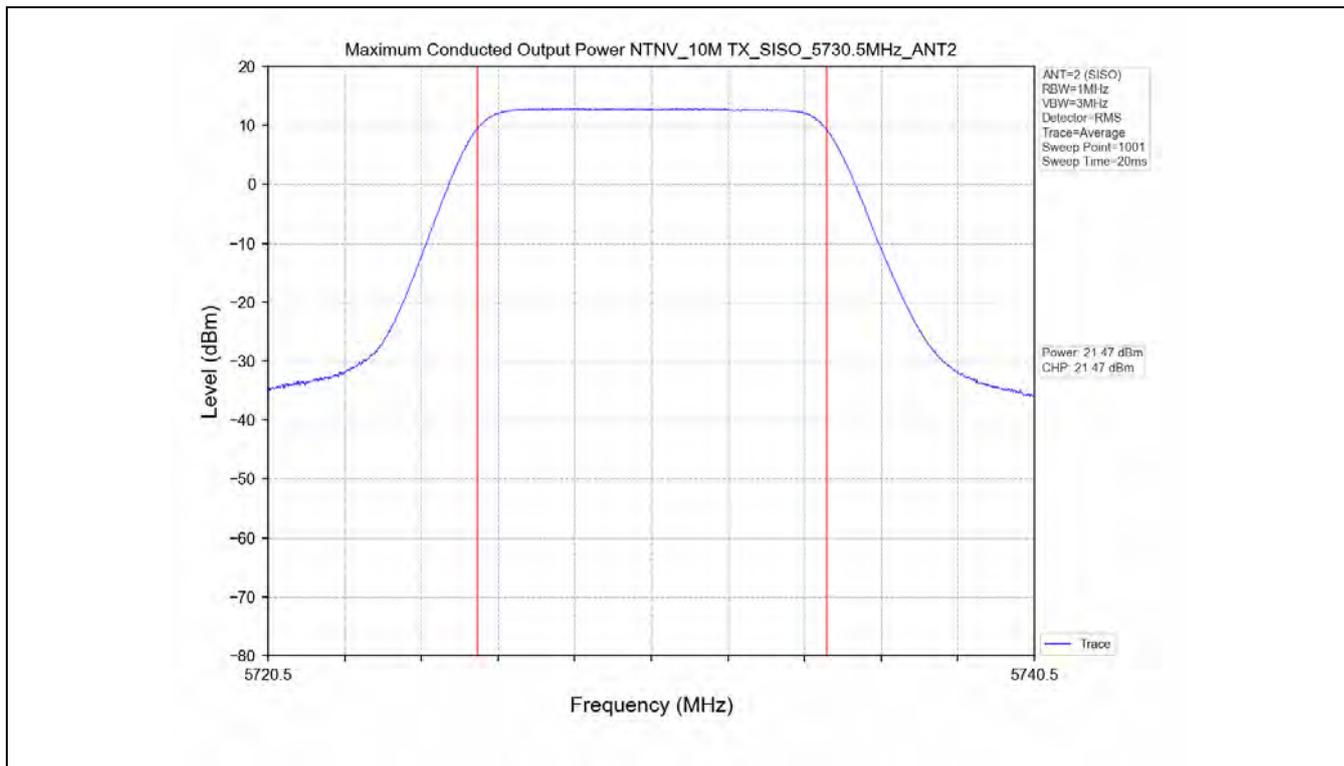
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3.2 Test Graph



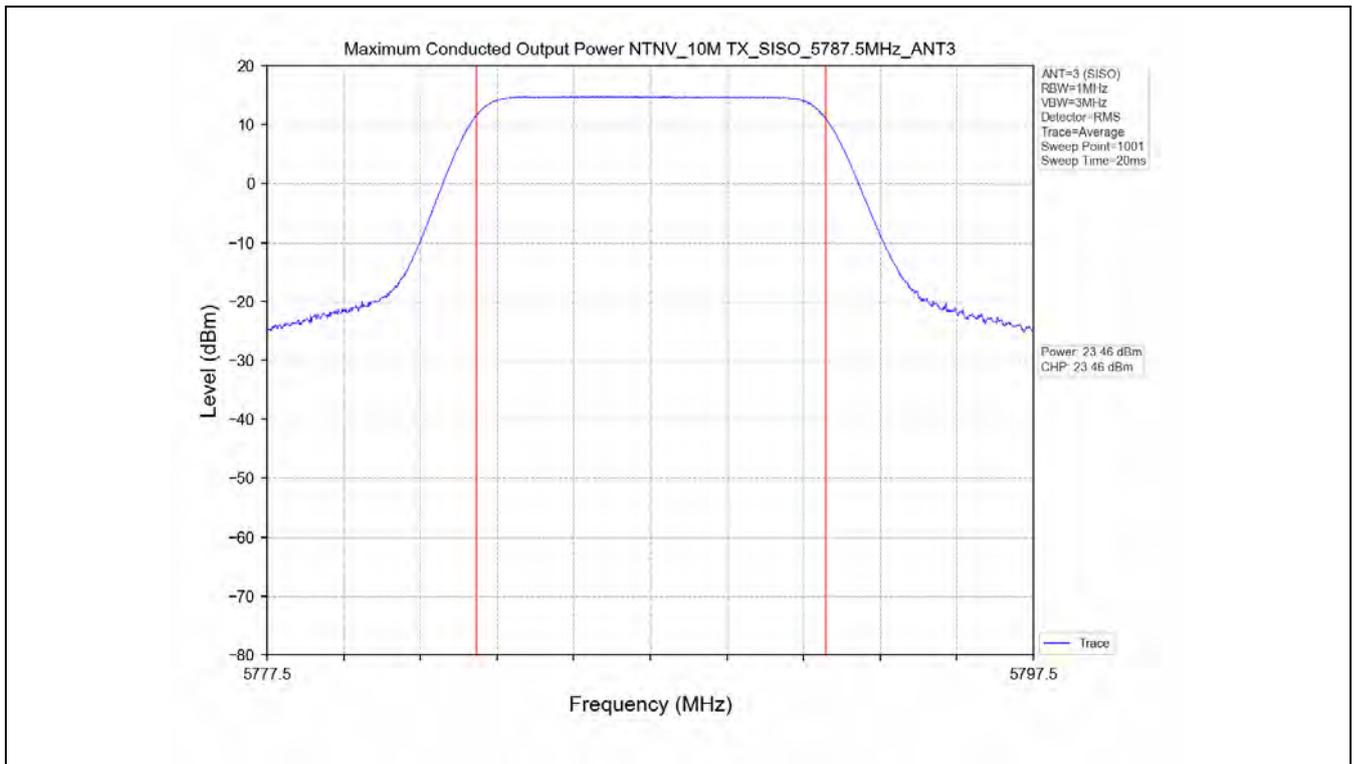
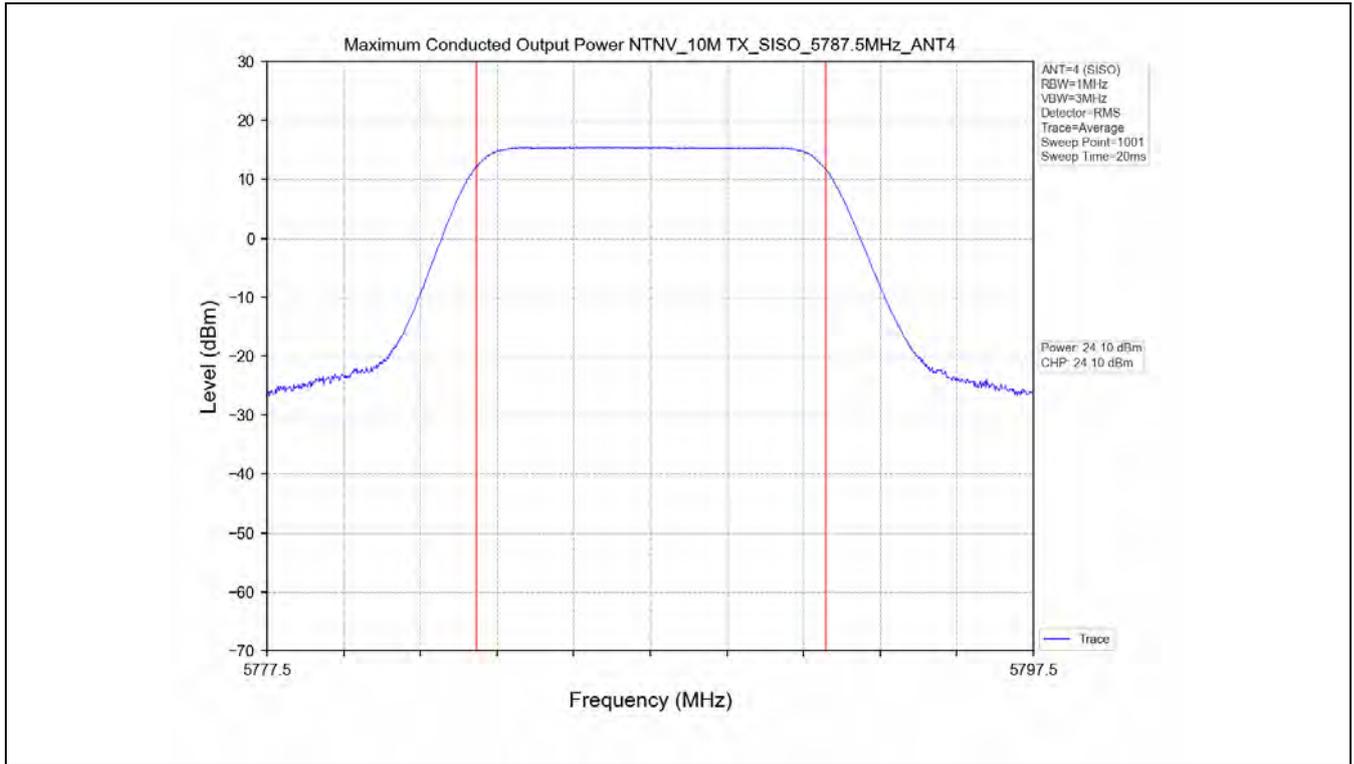
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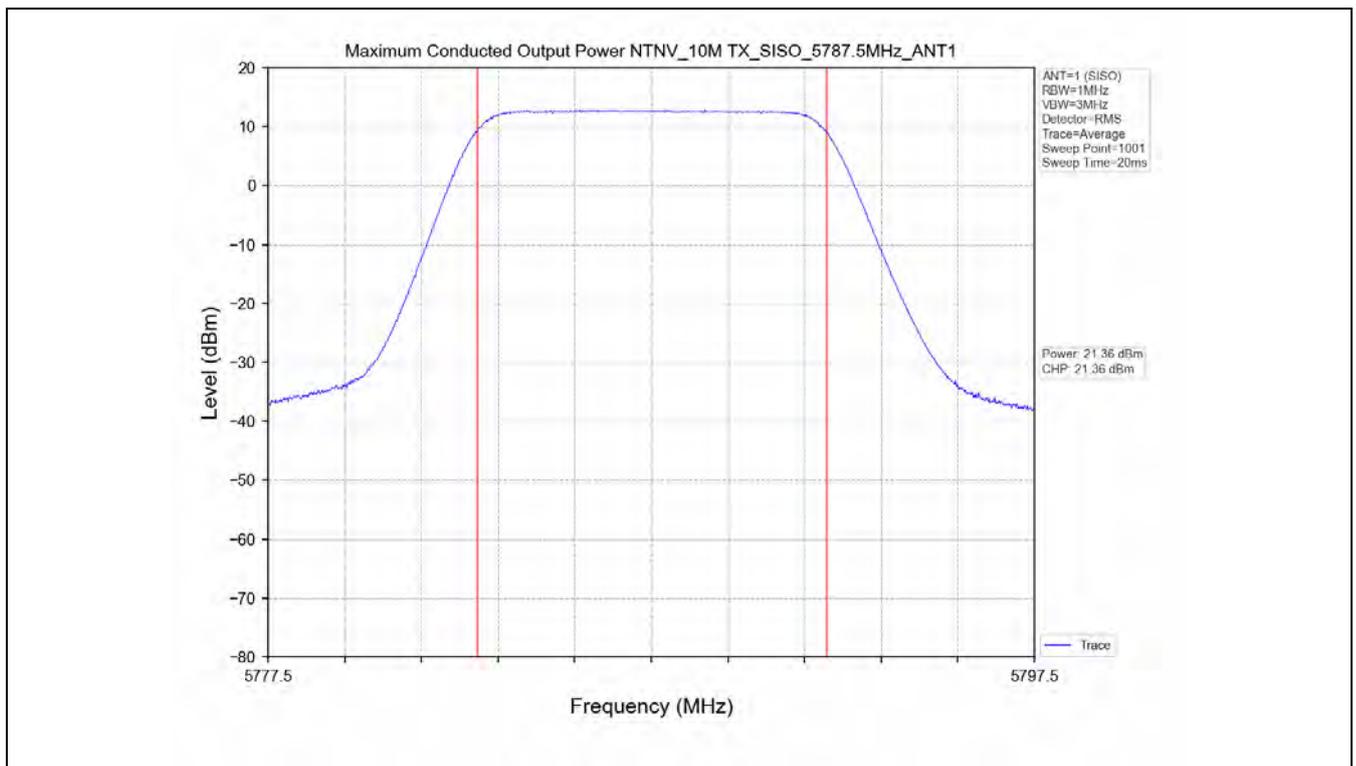
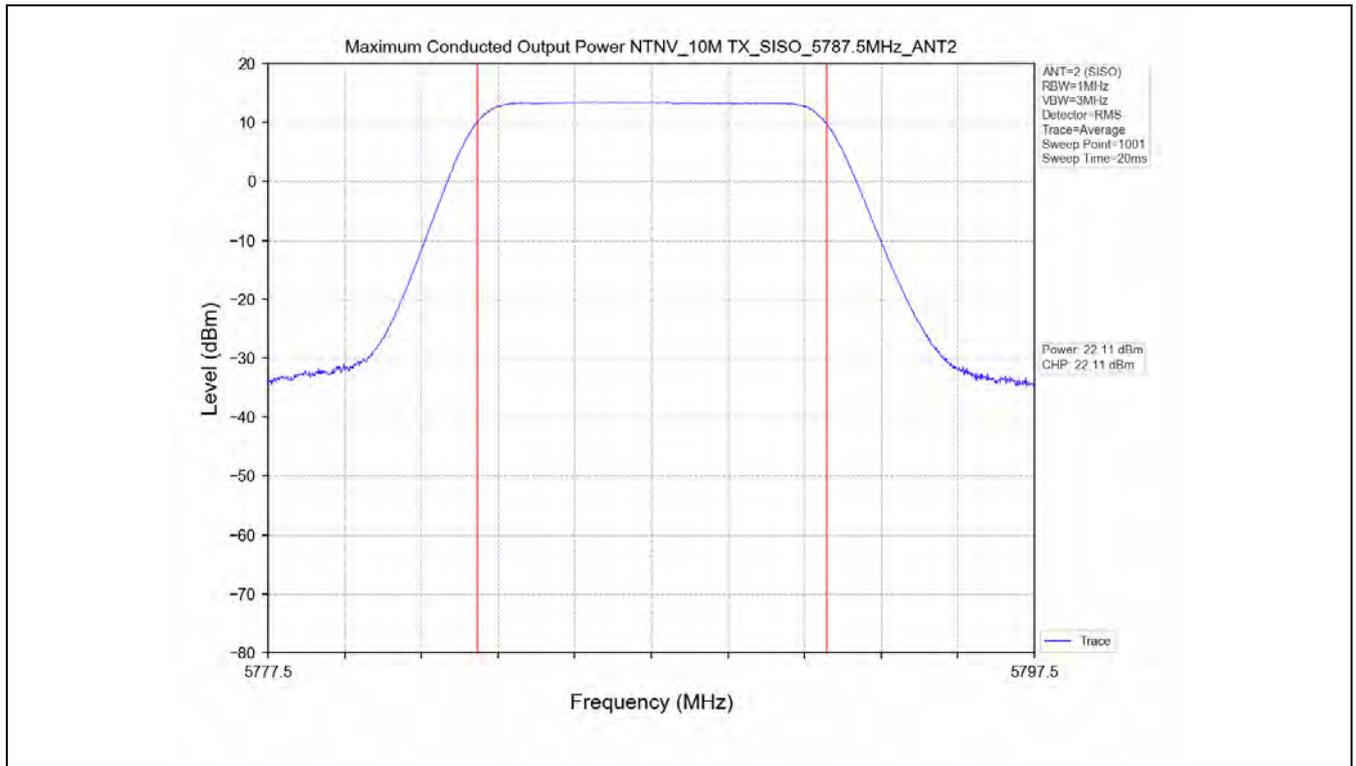
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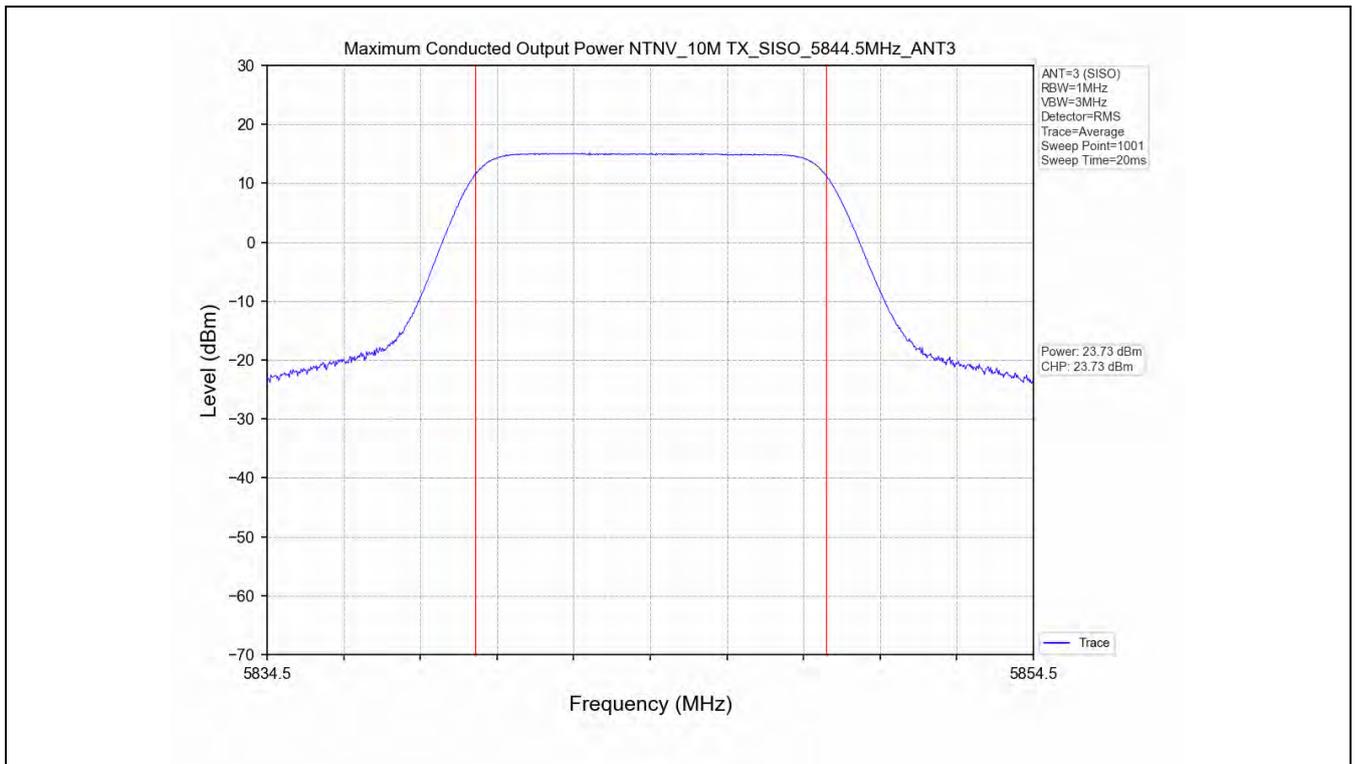
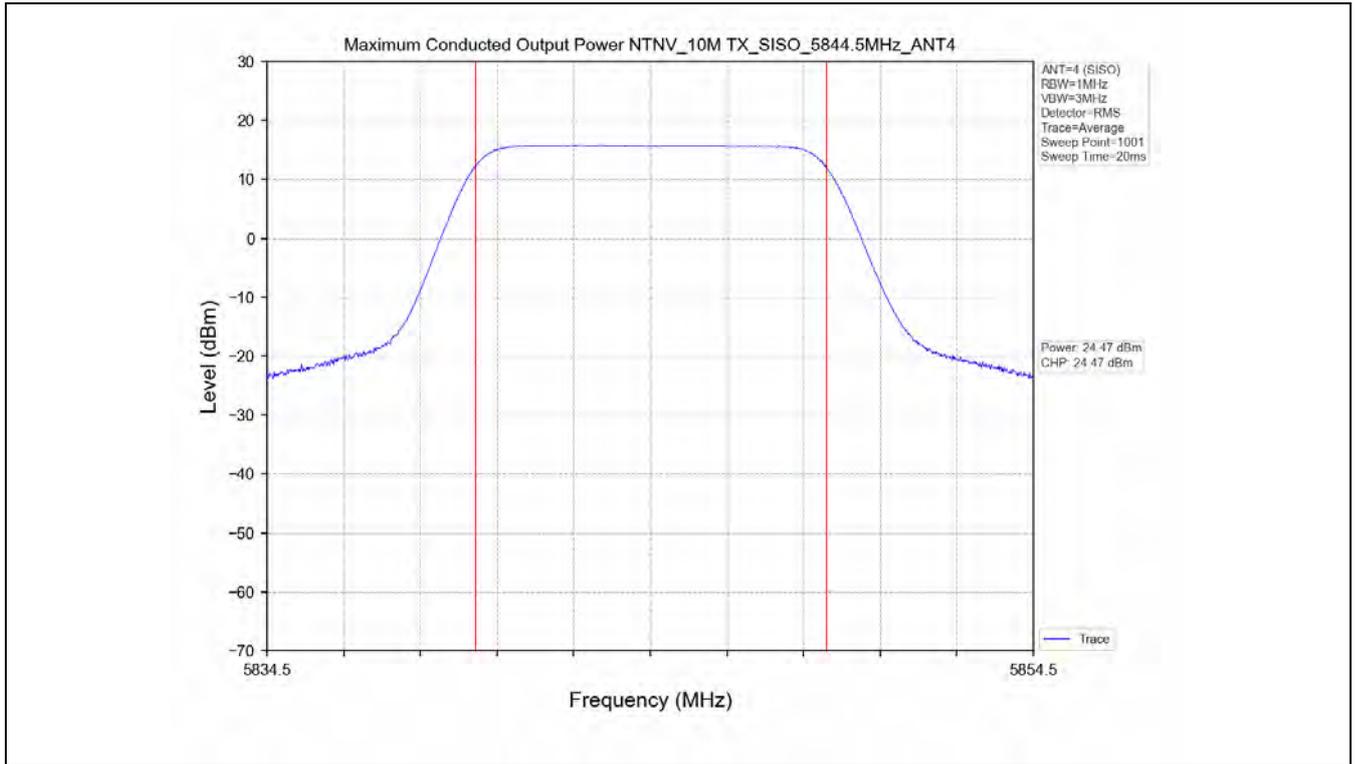
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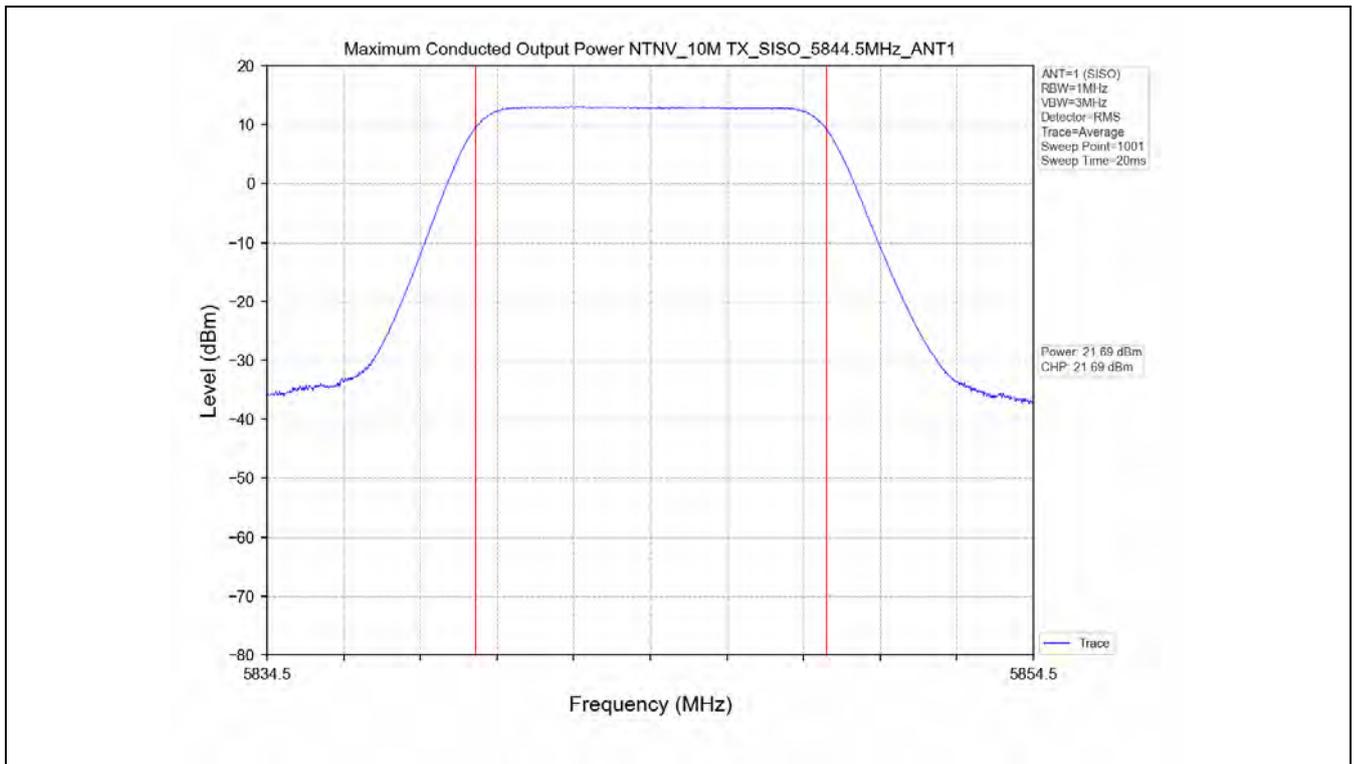
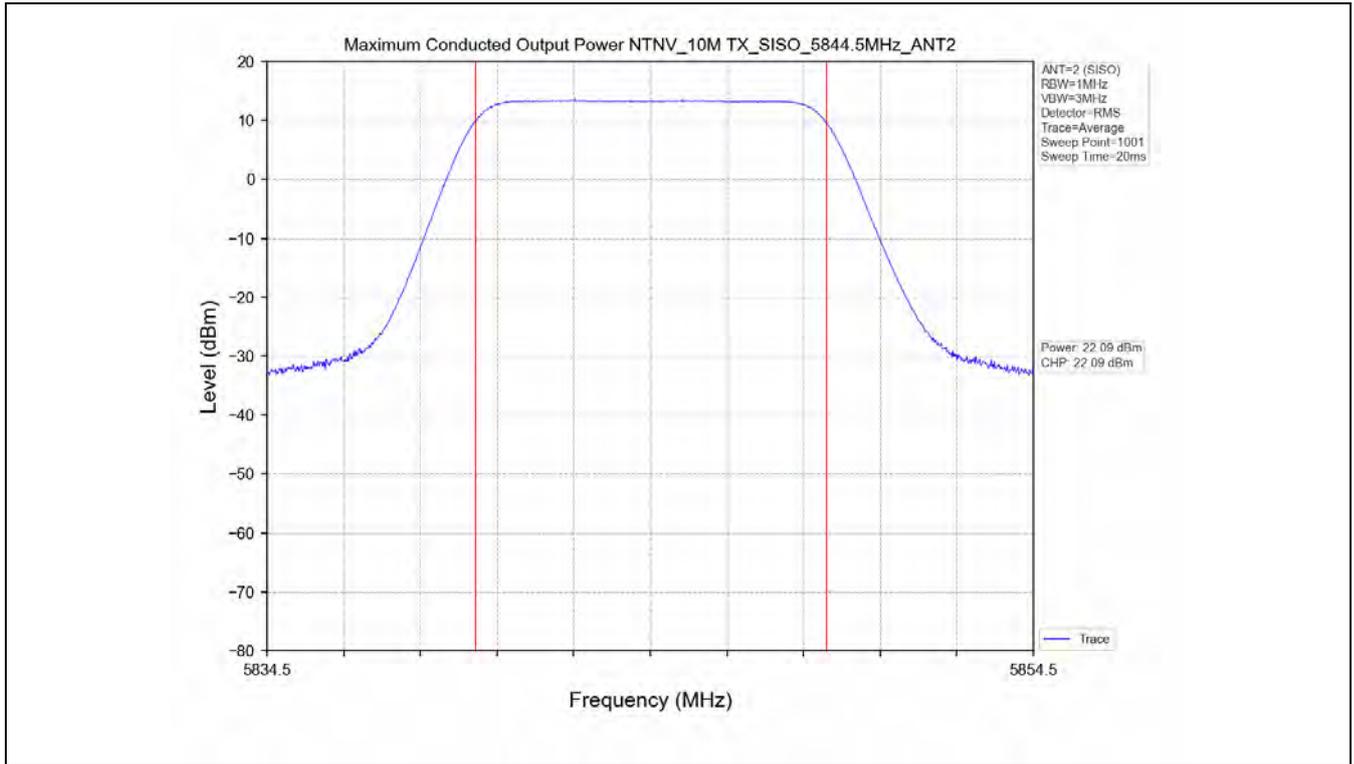


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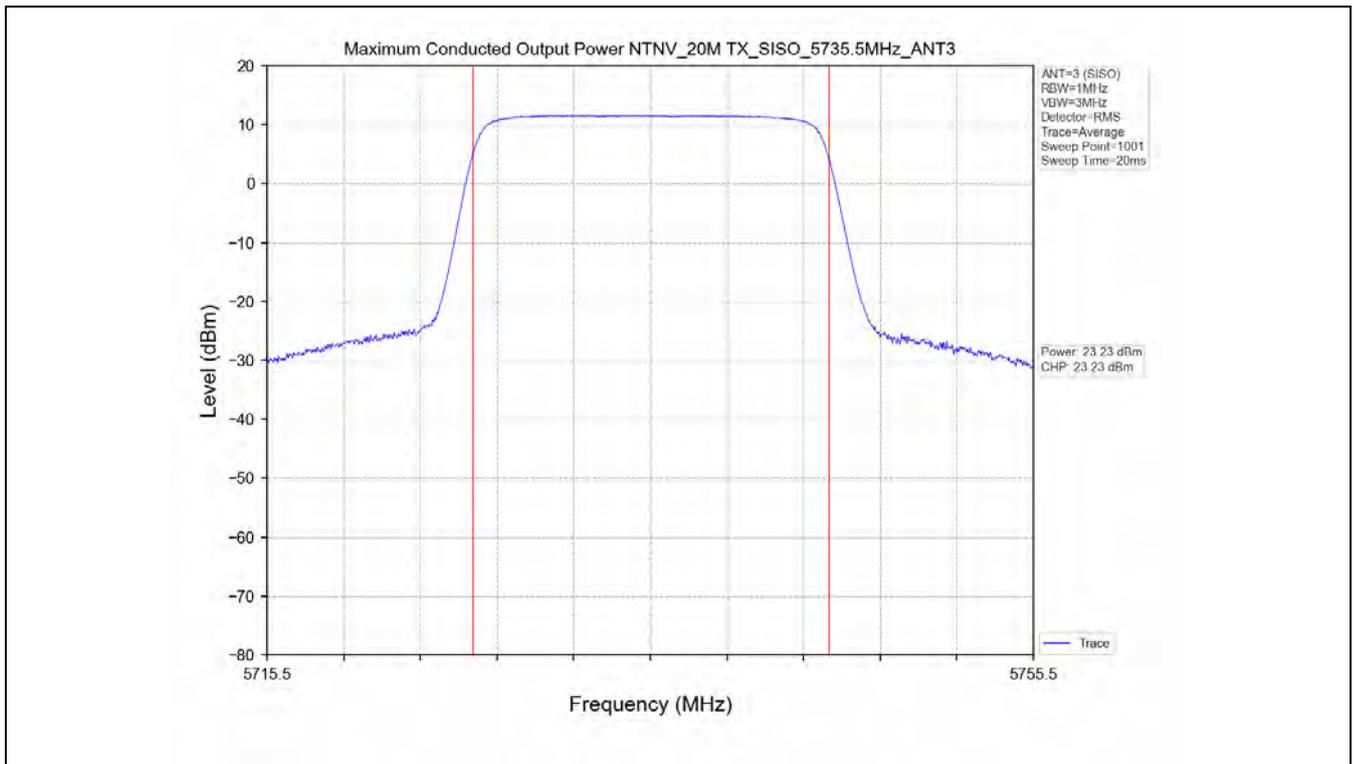
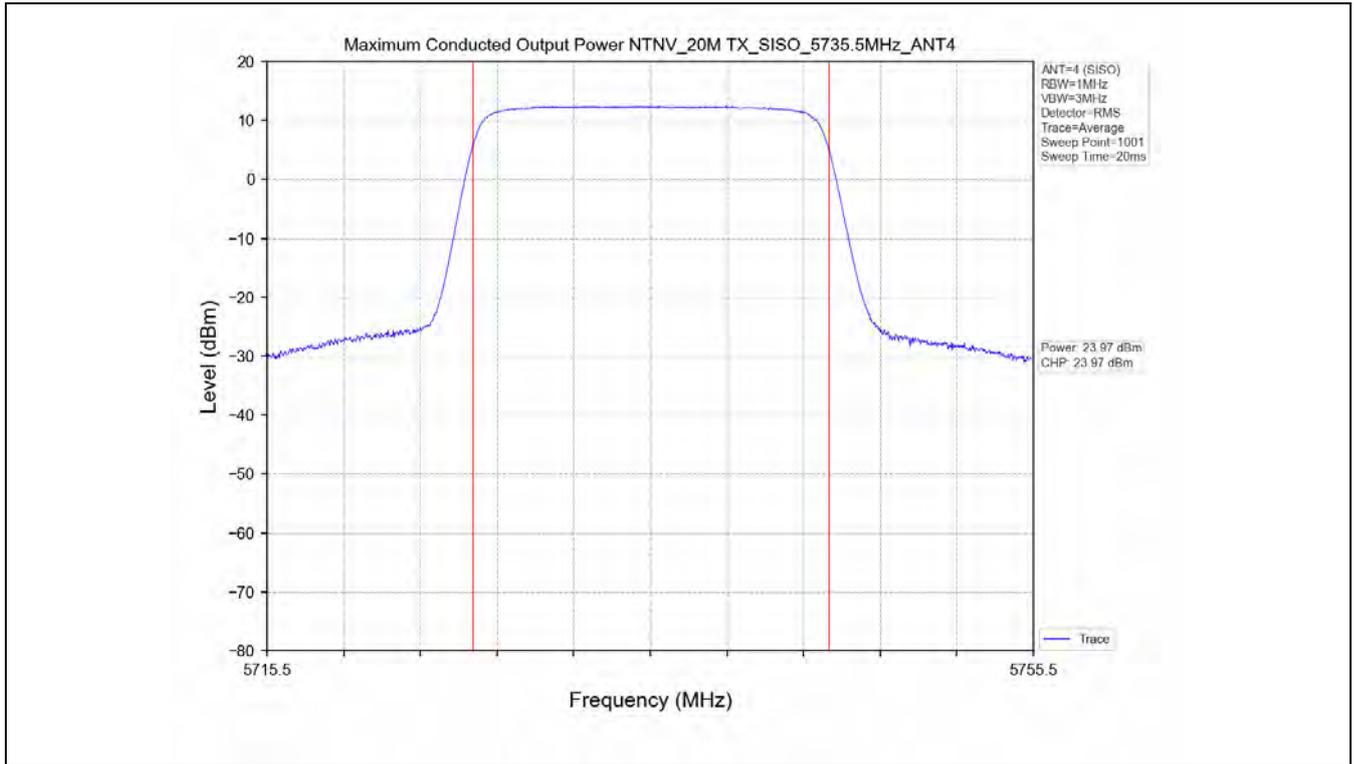
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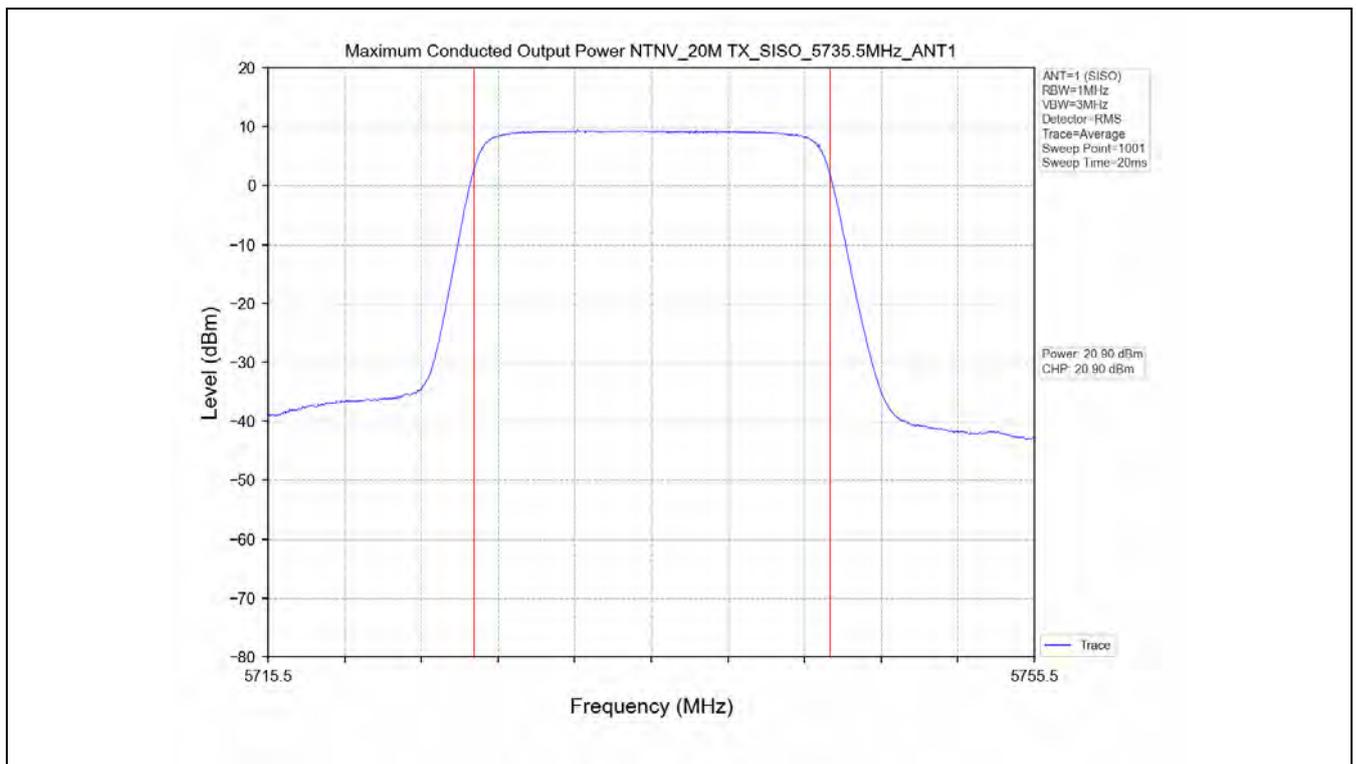
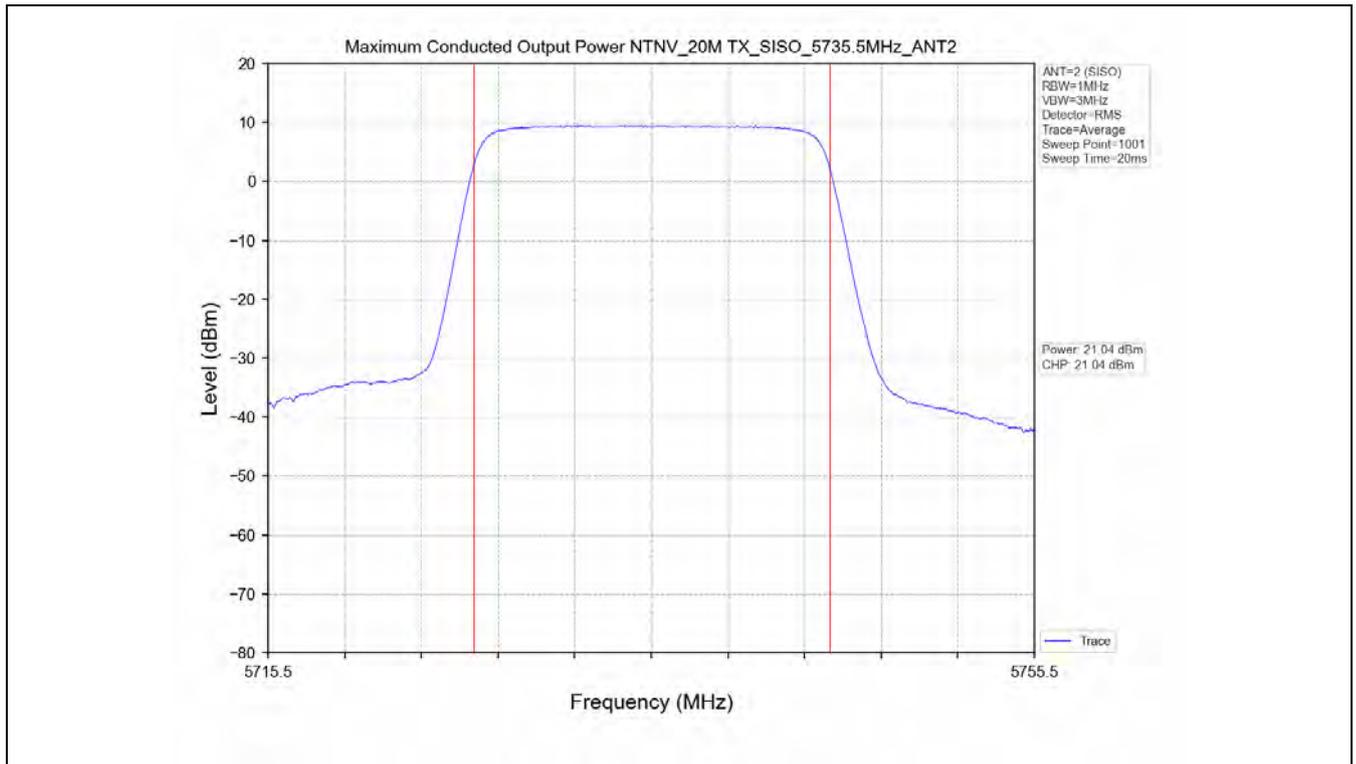
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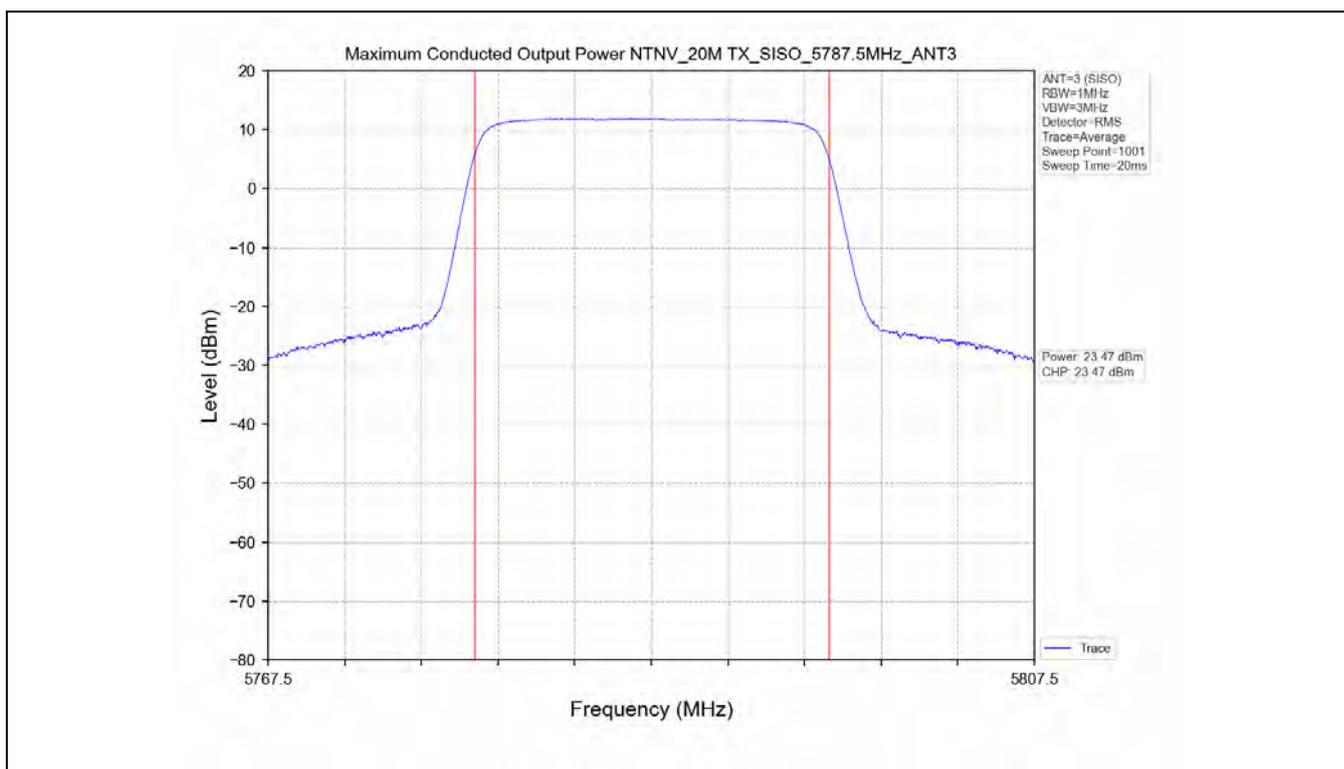
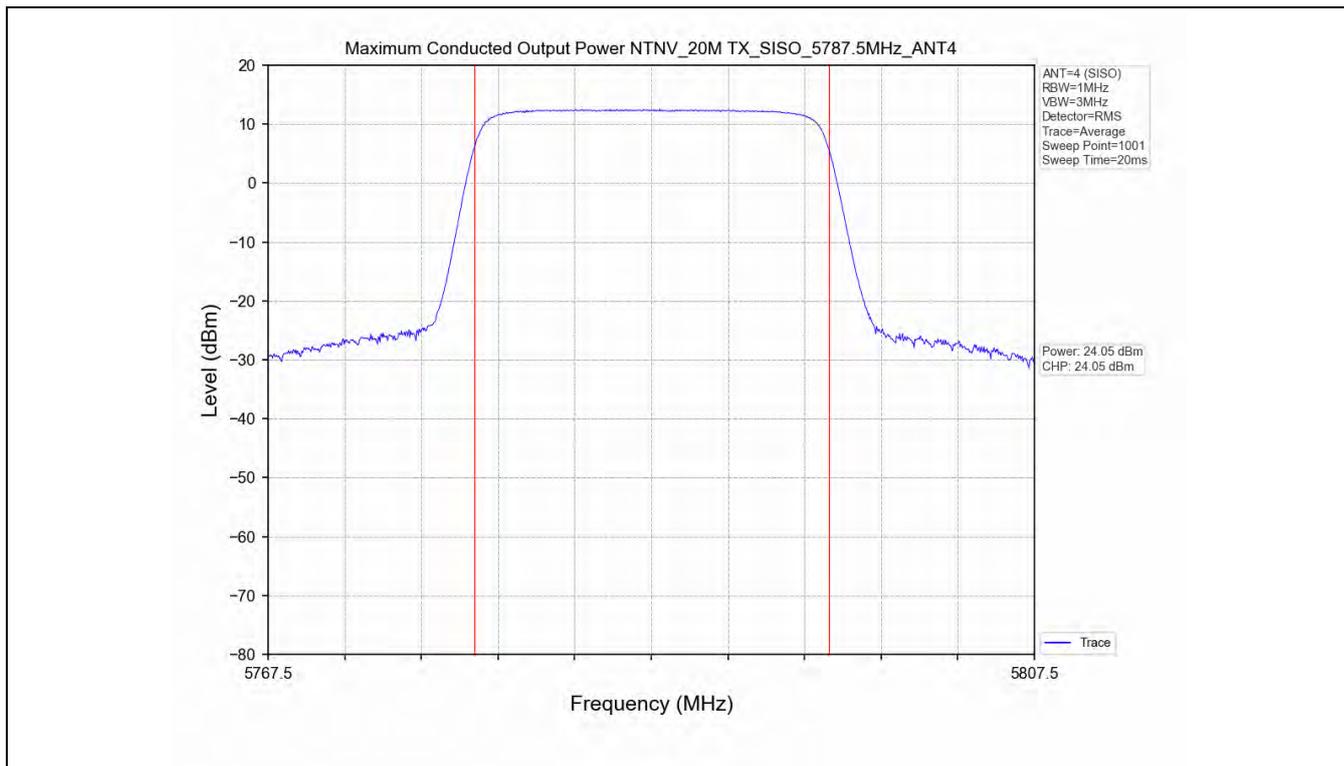
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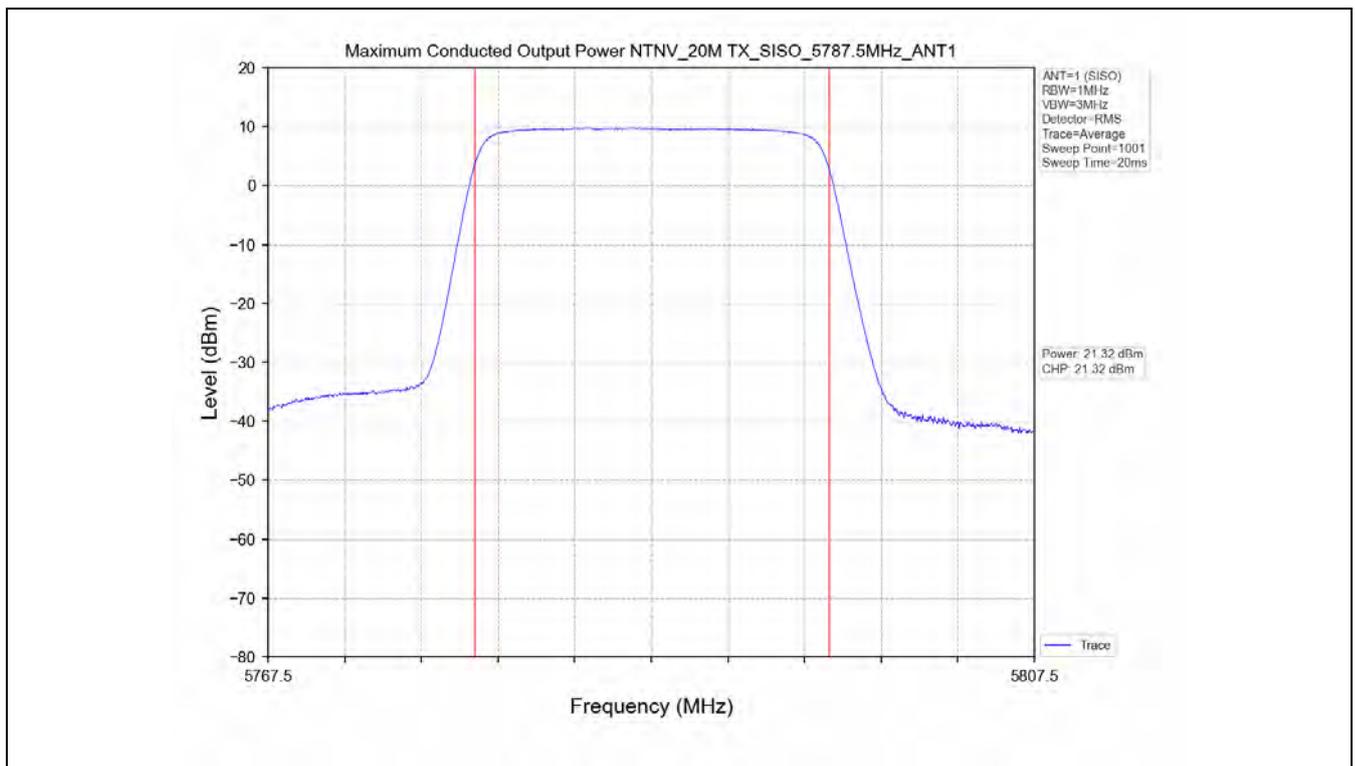
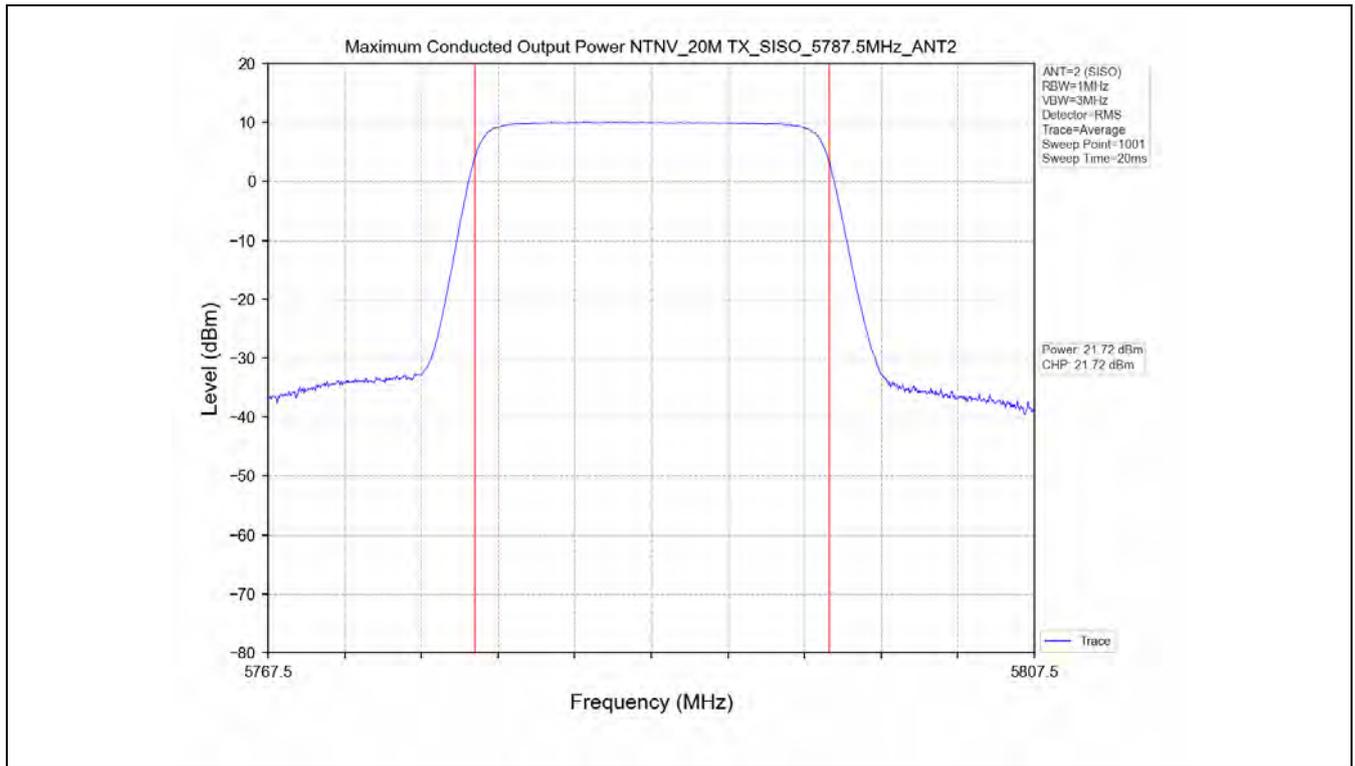
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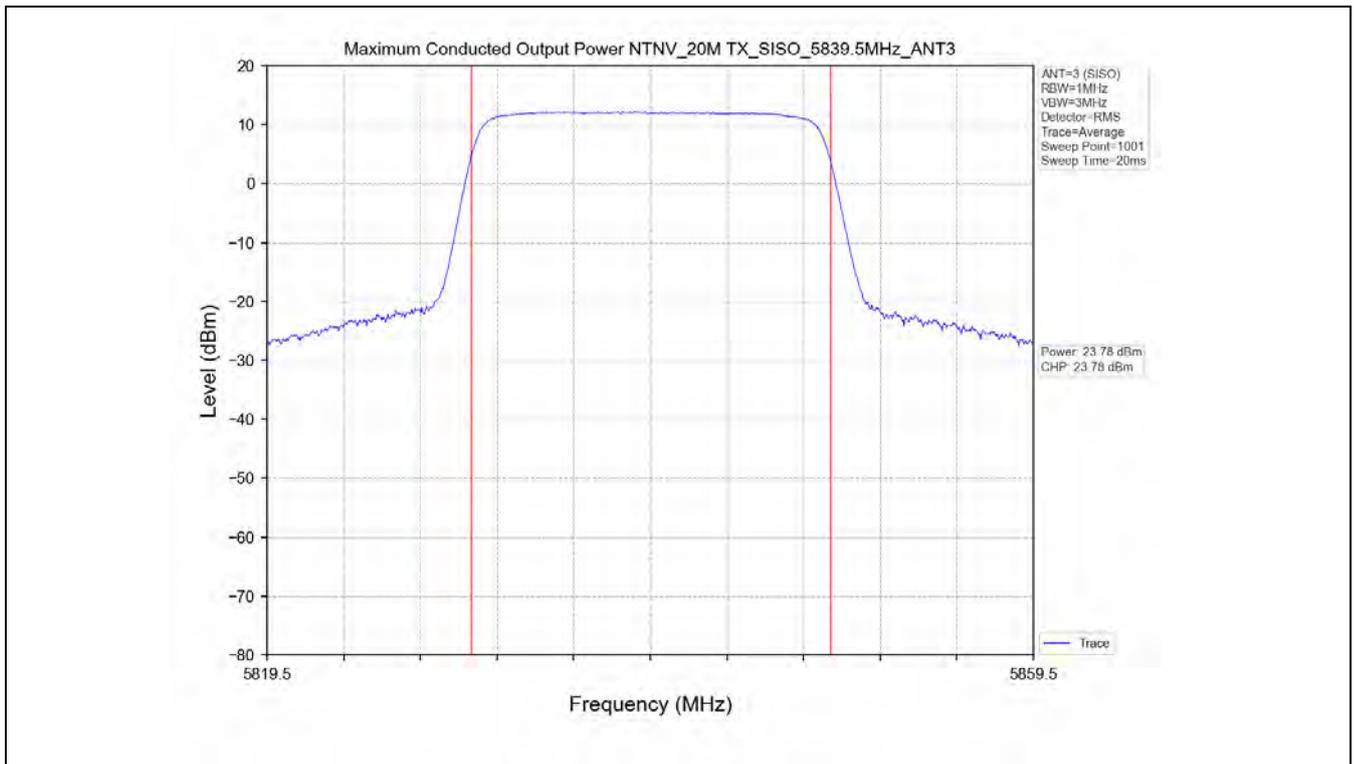
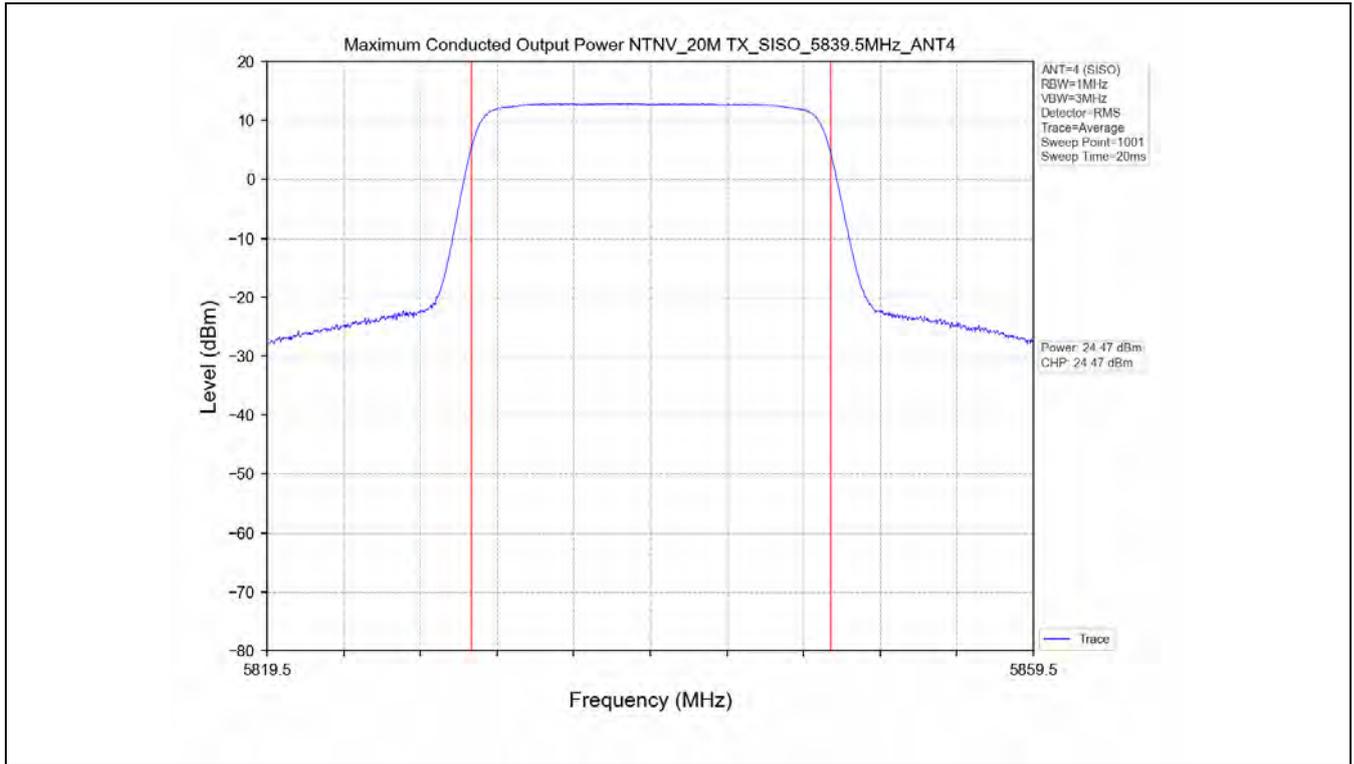
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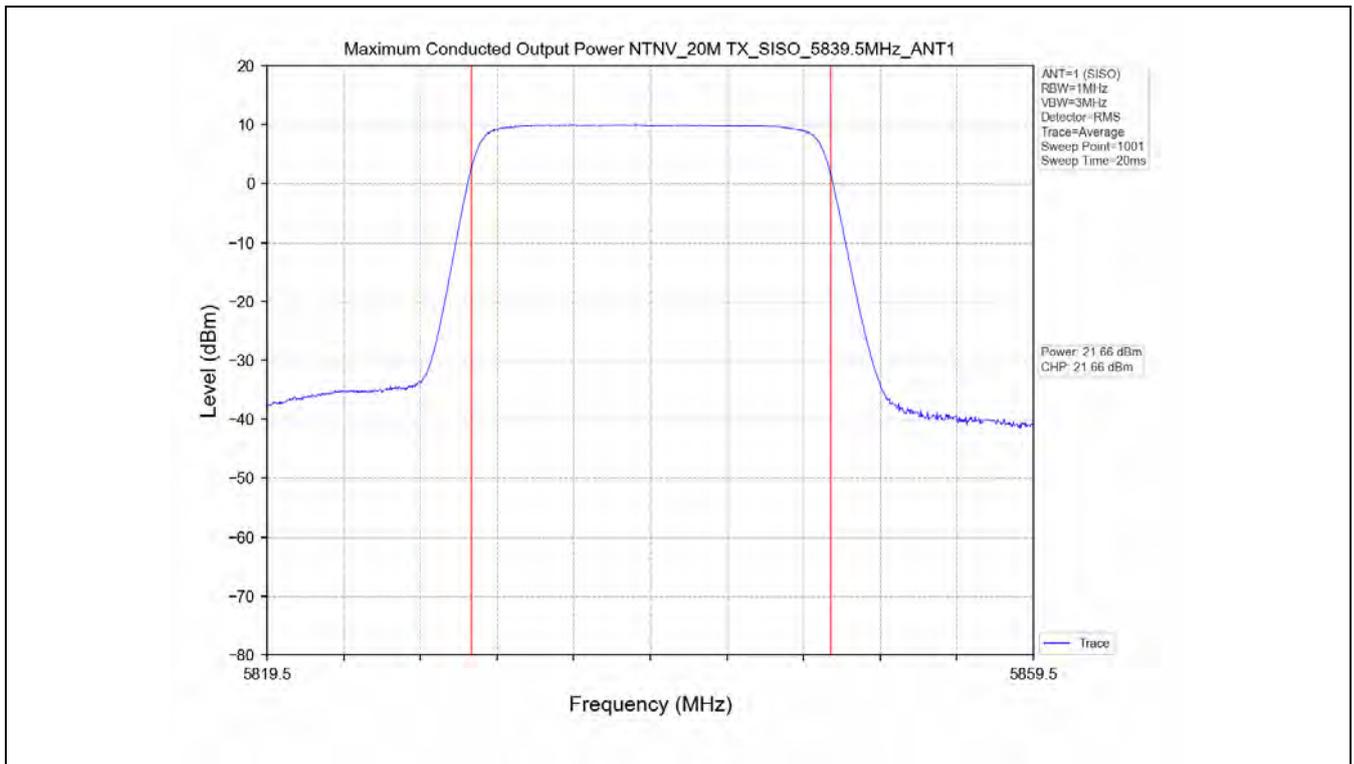
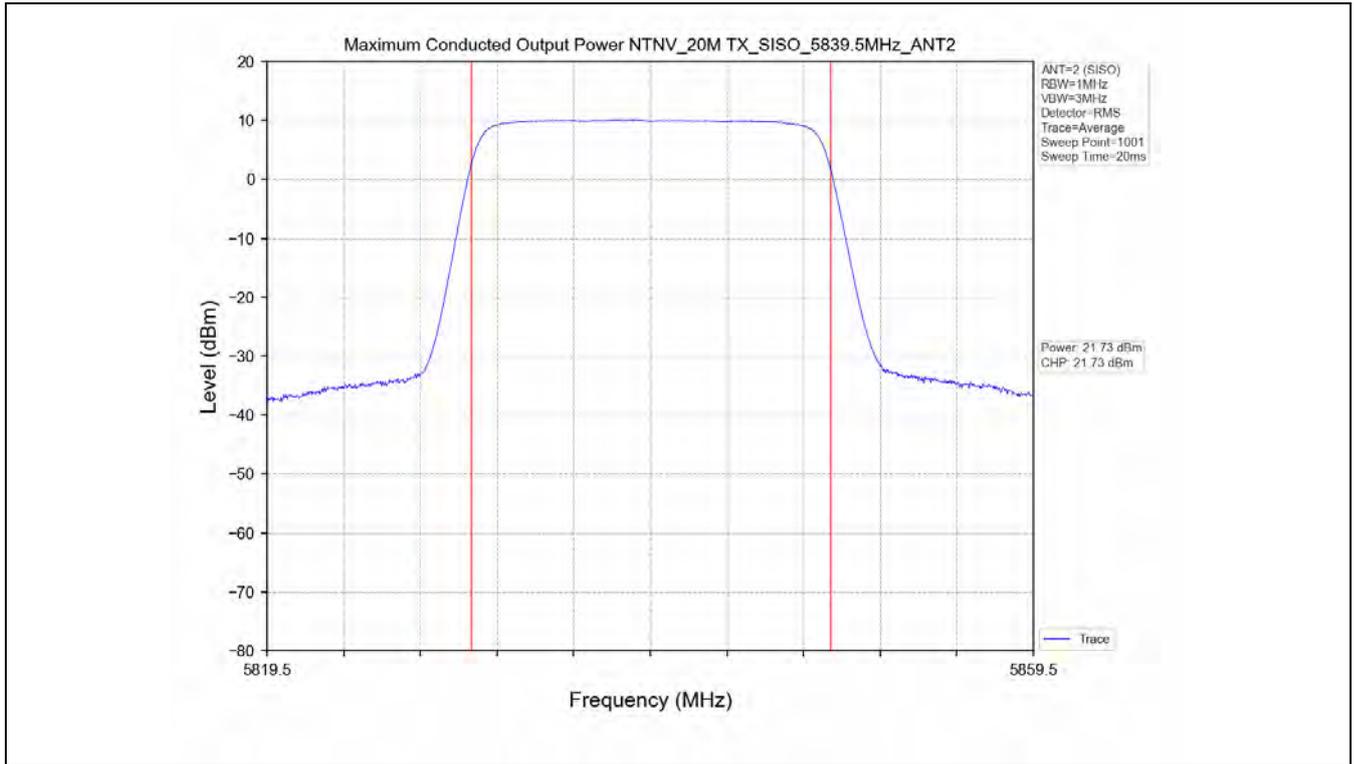
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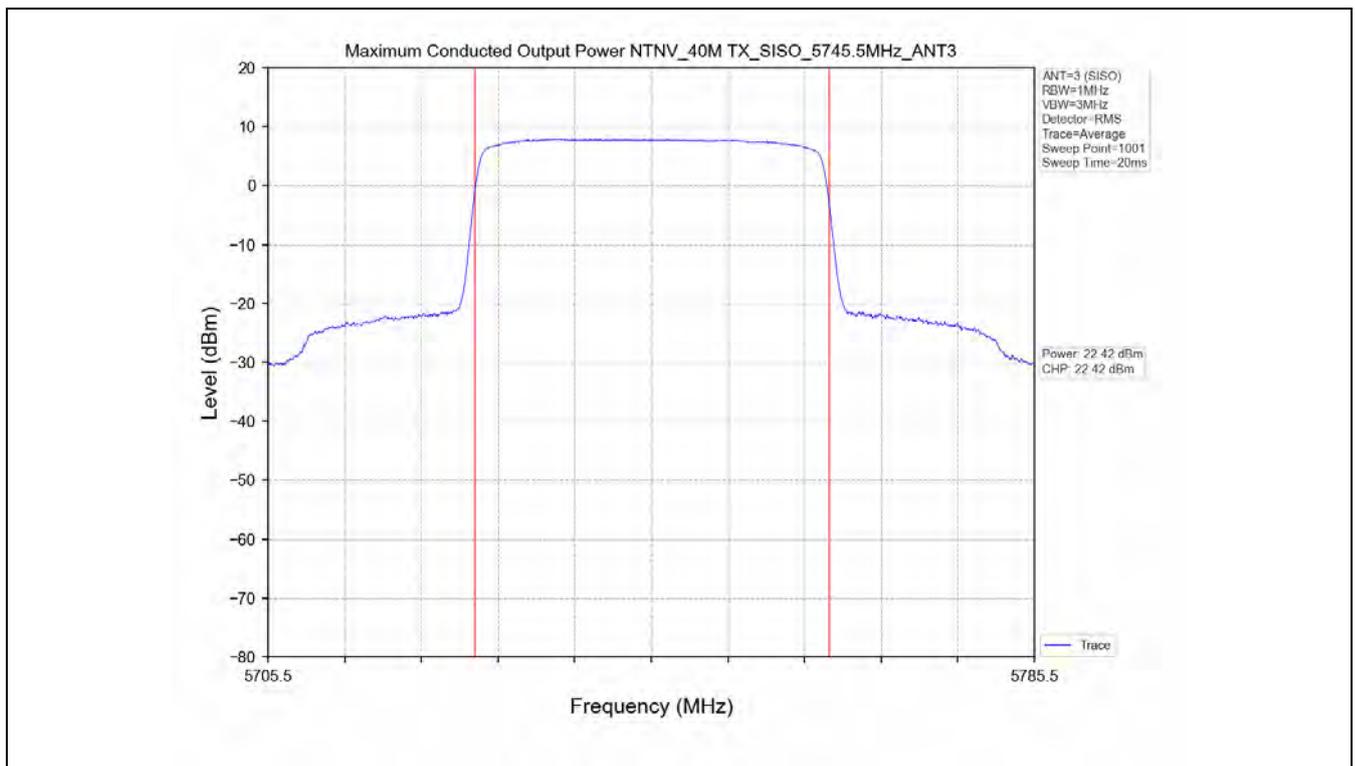
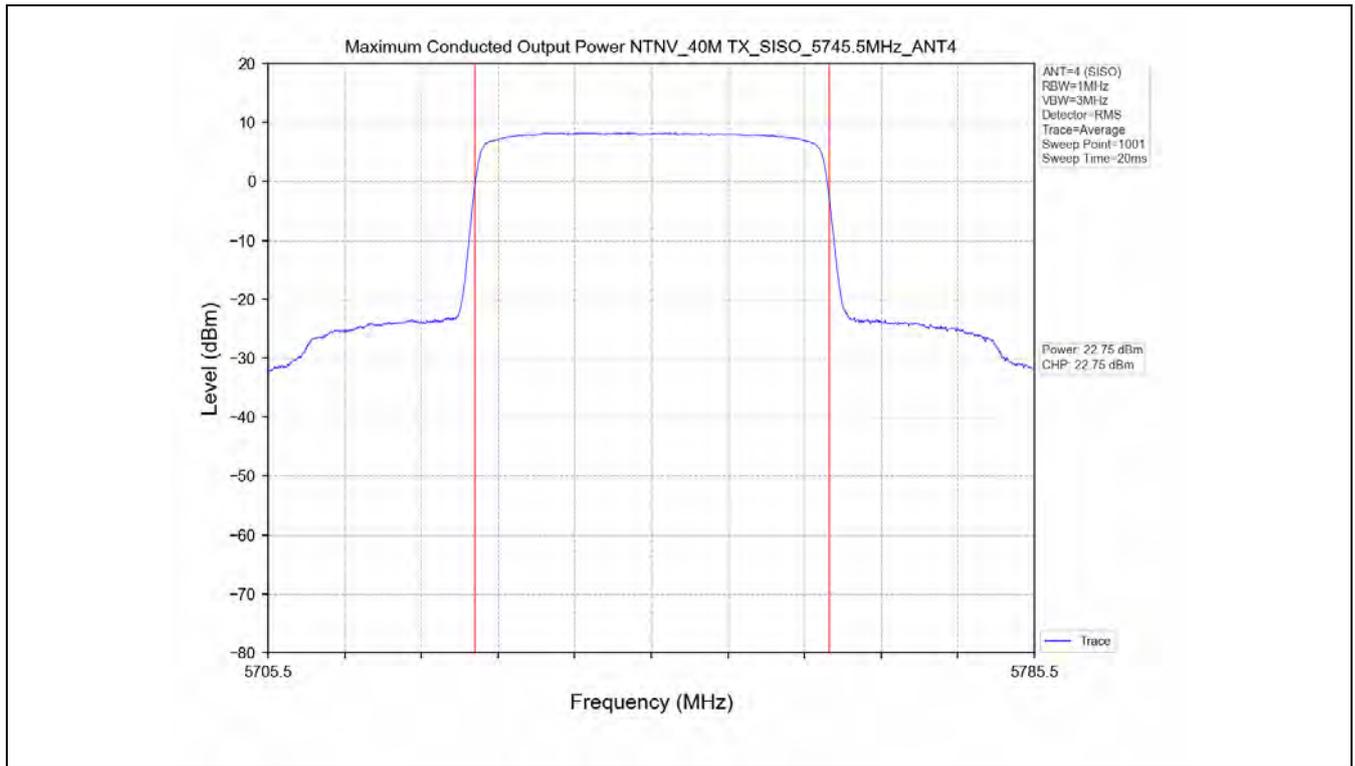
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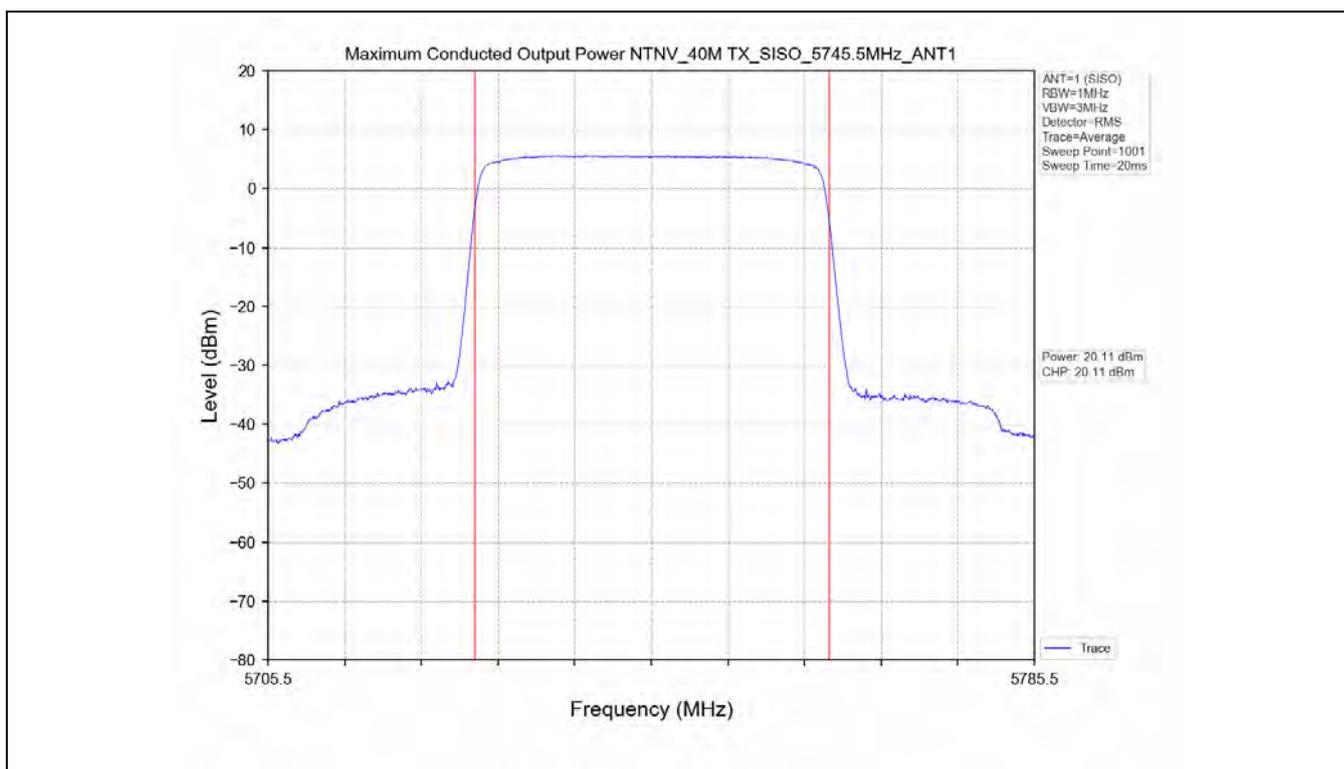
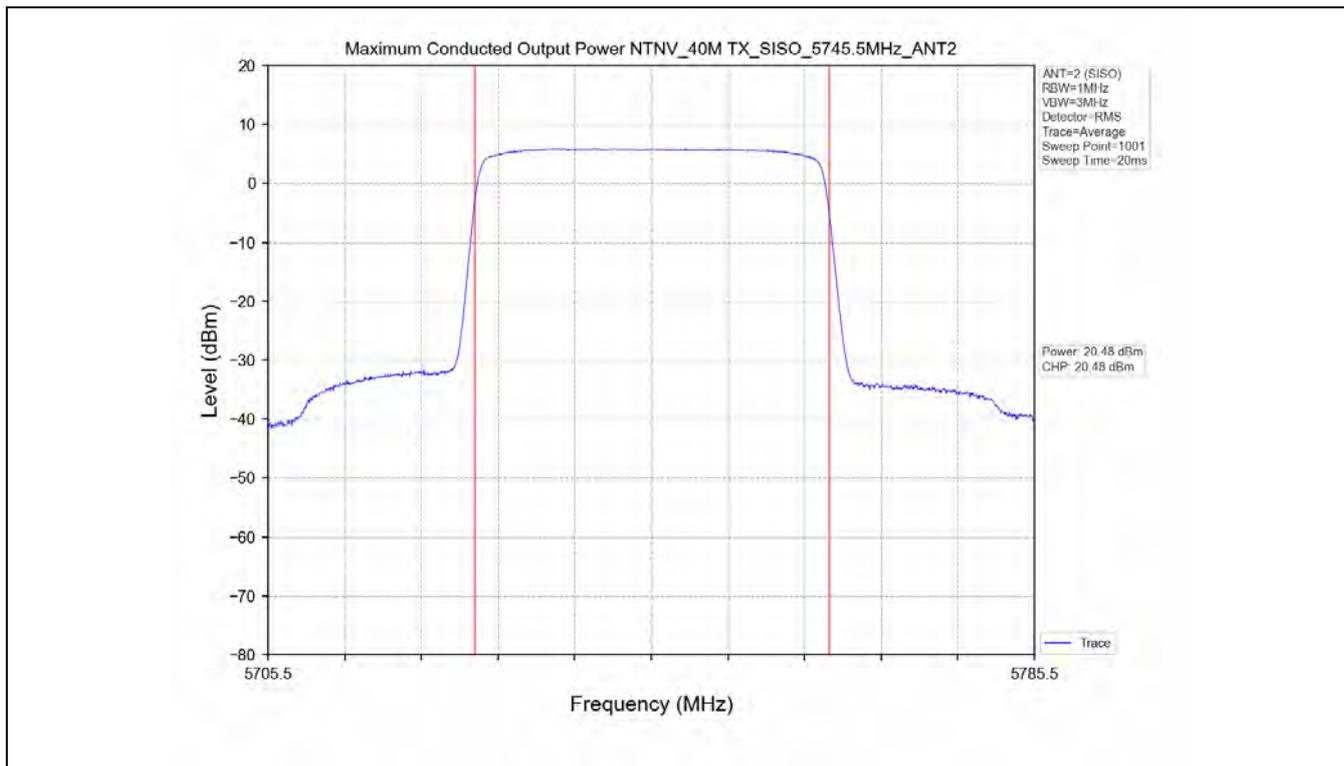
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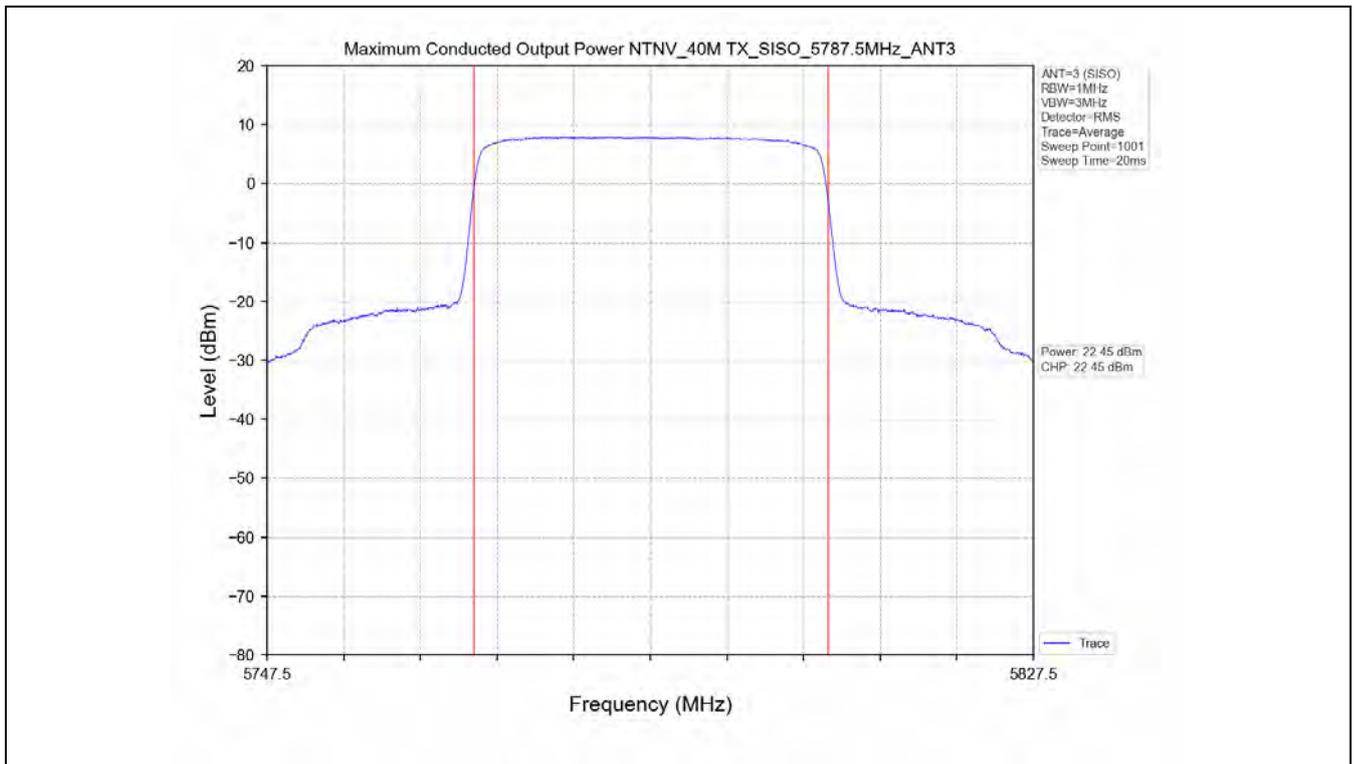
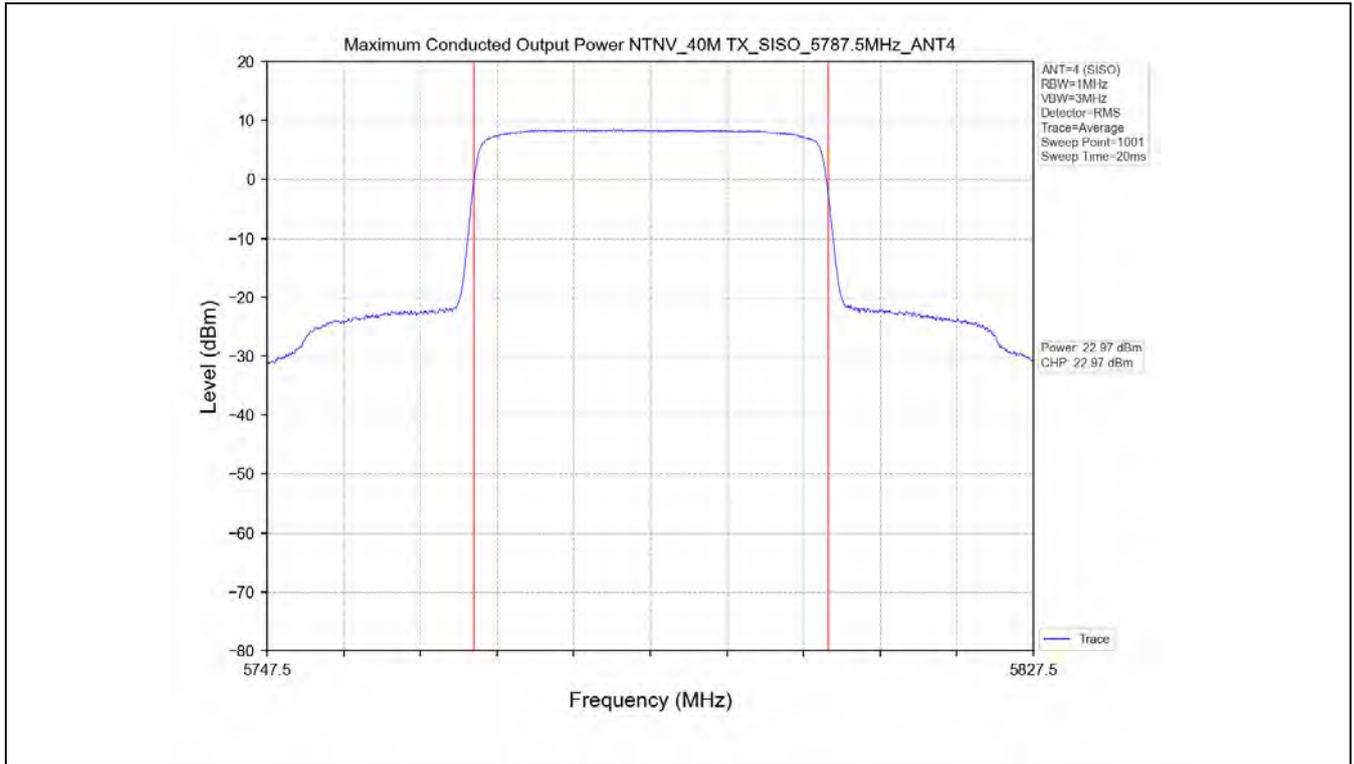
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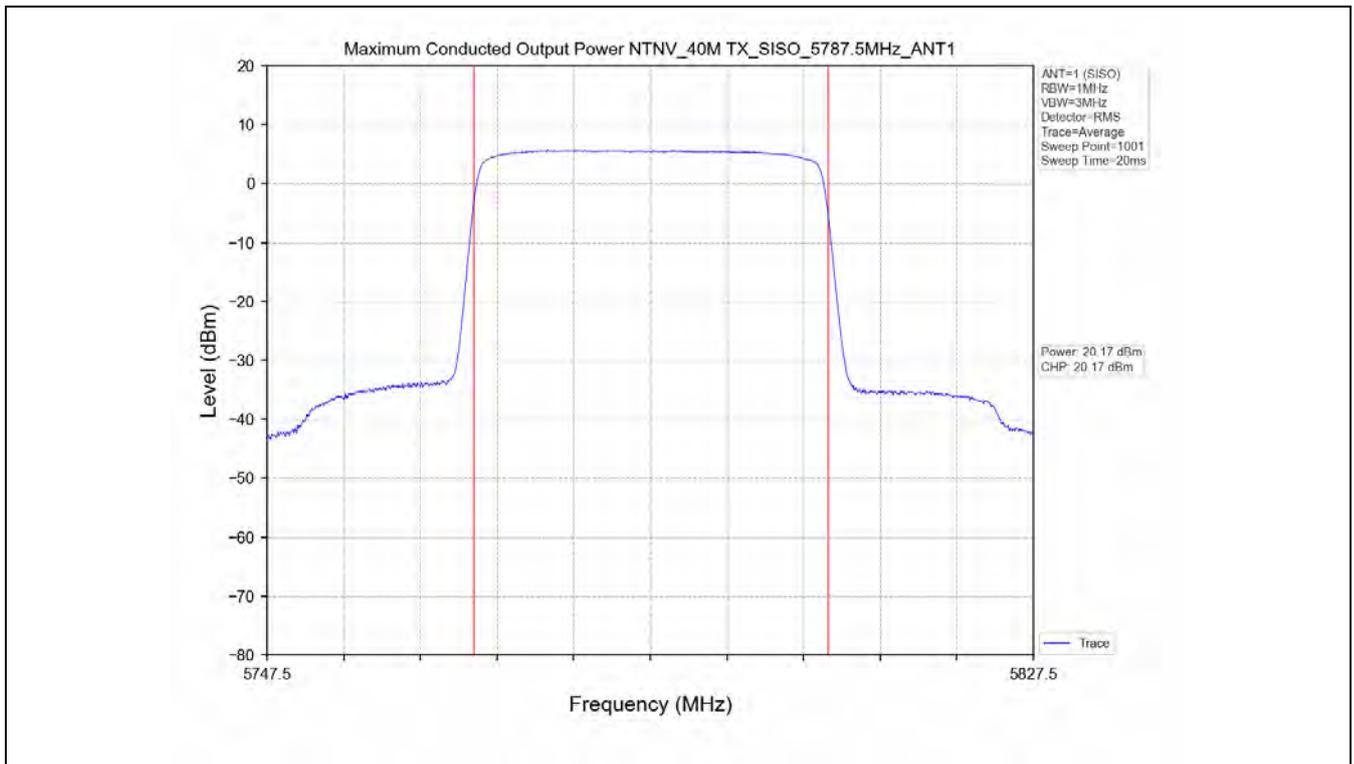
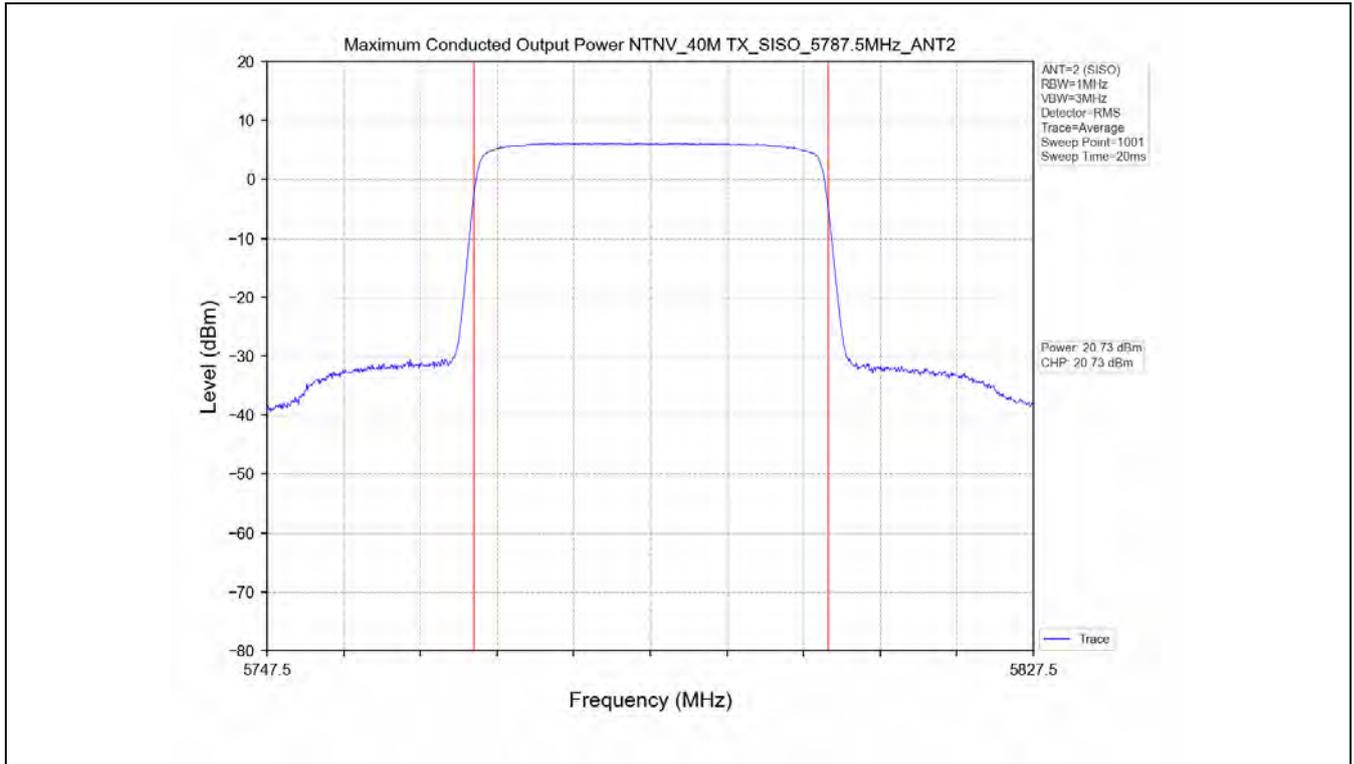
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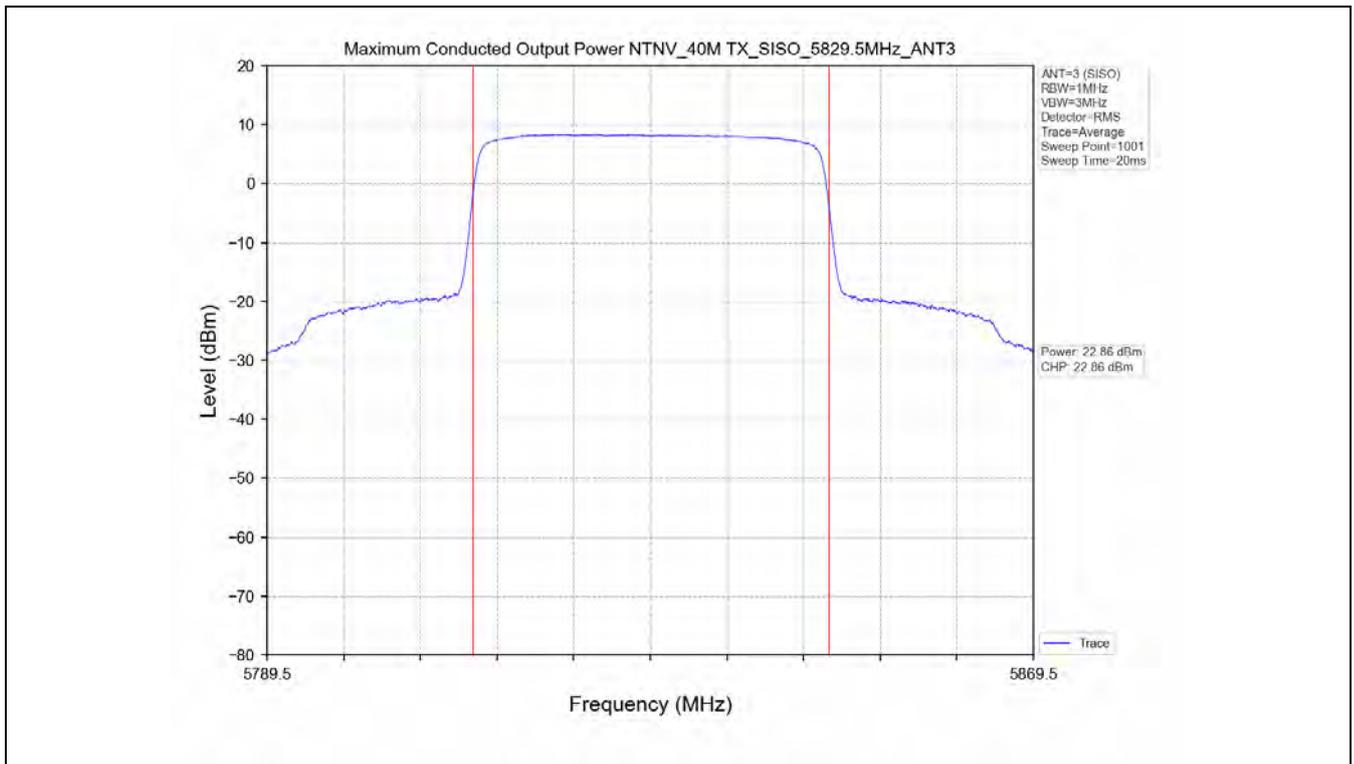
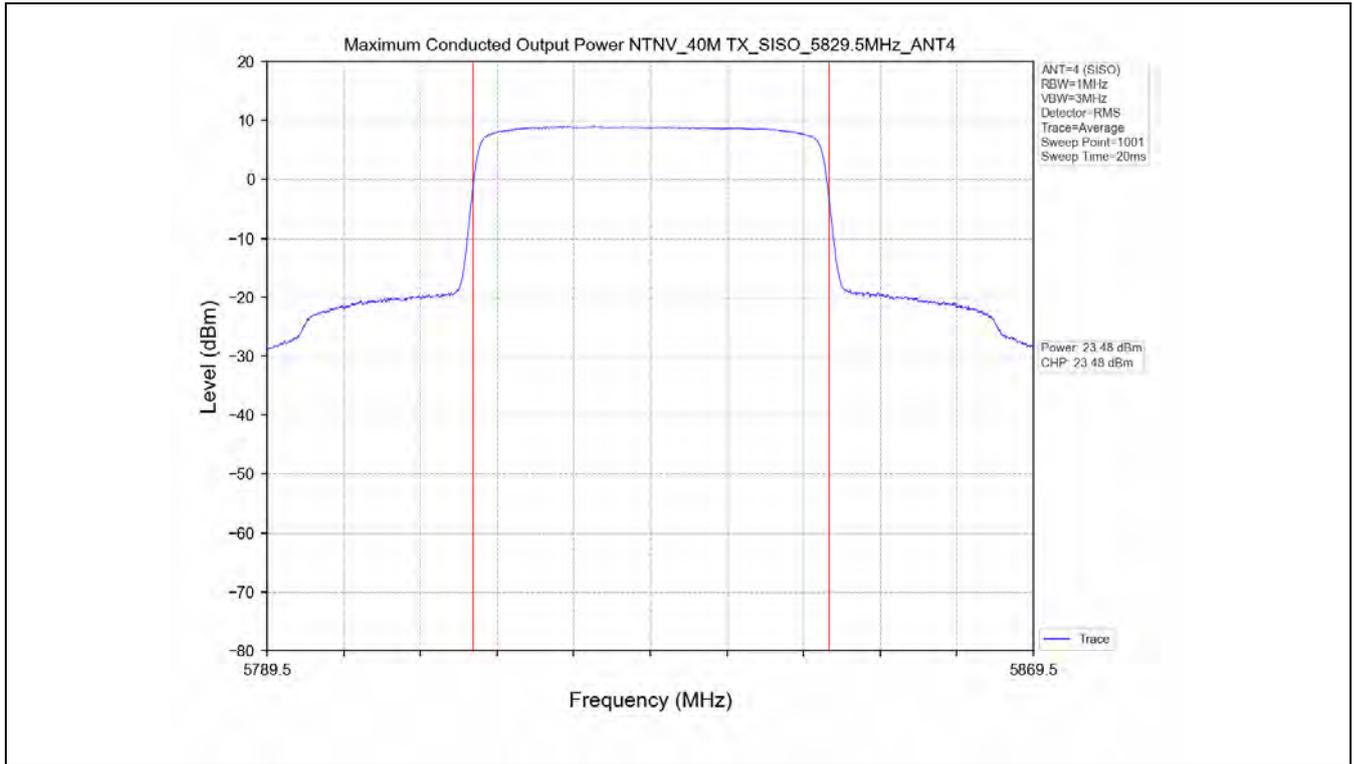
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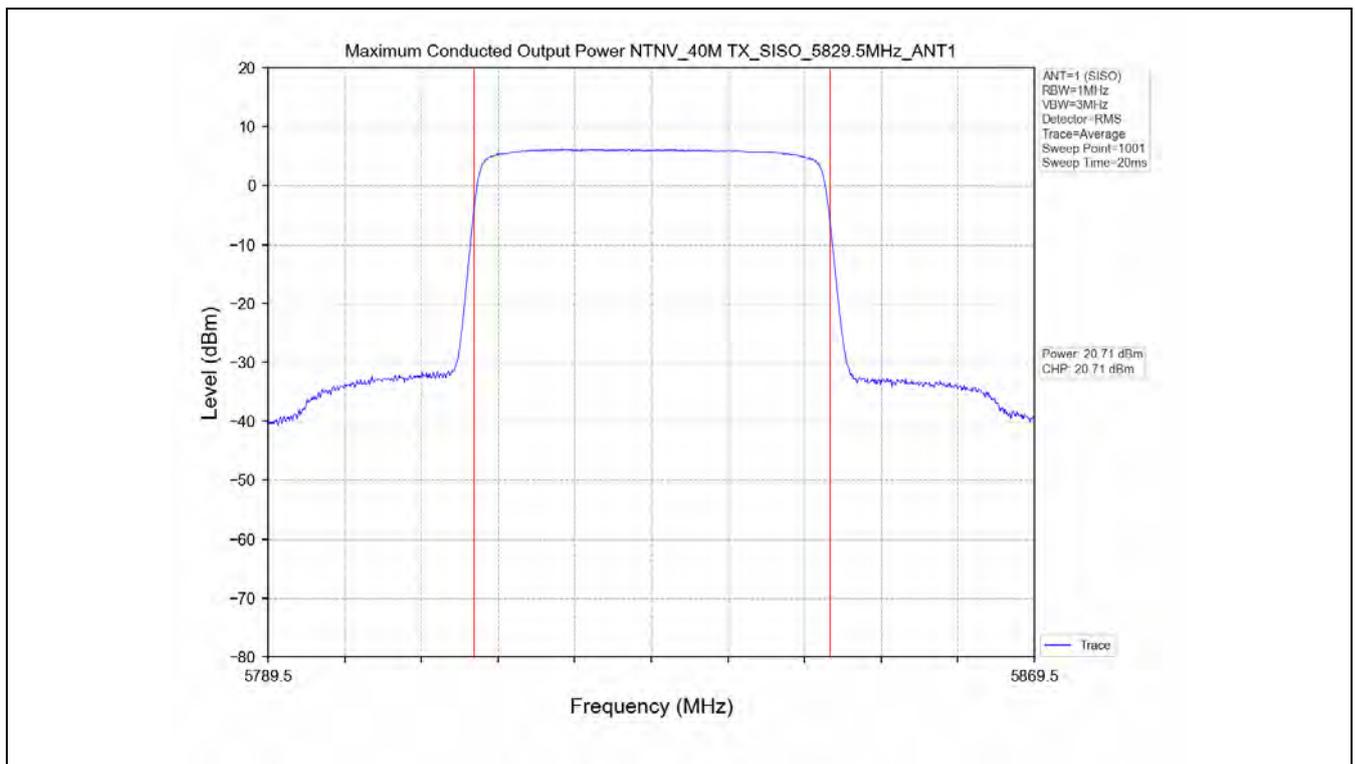
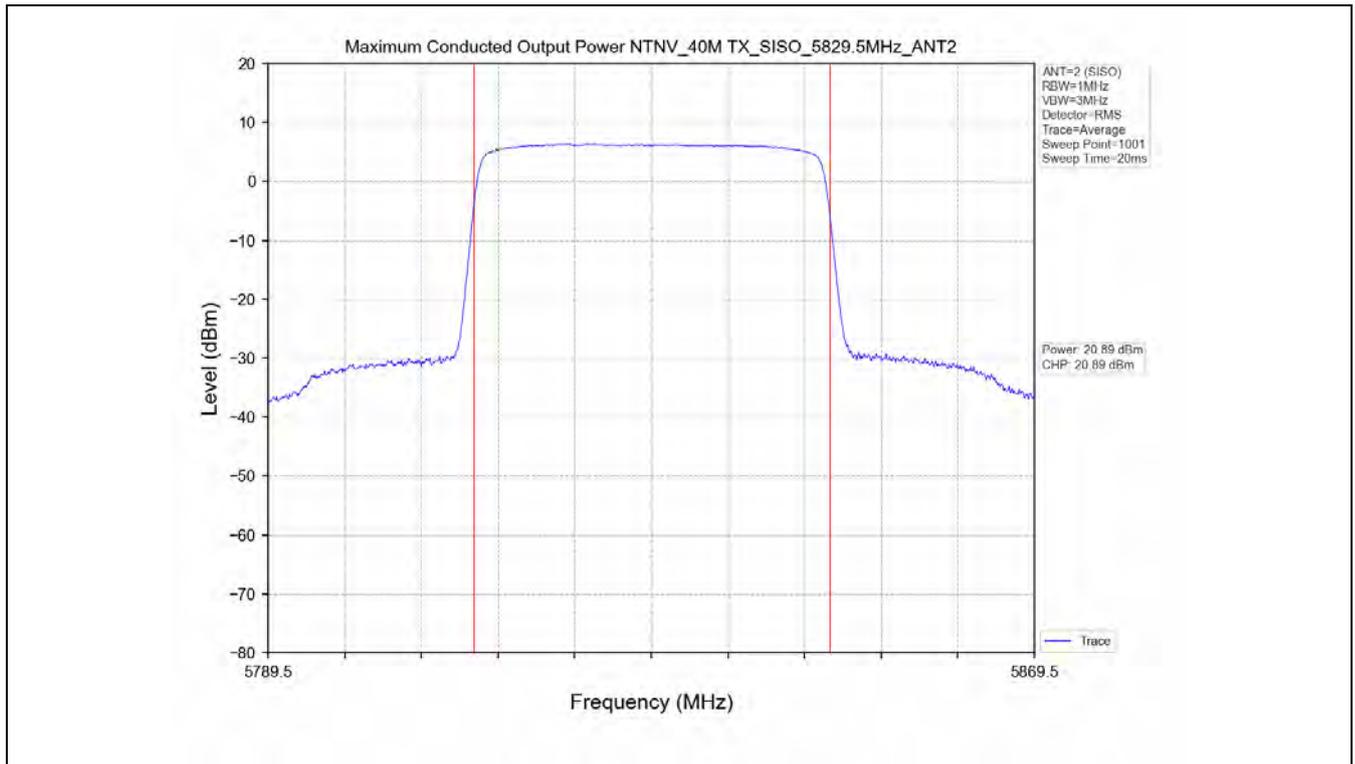
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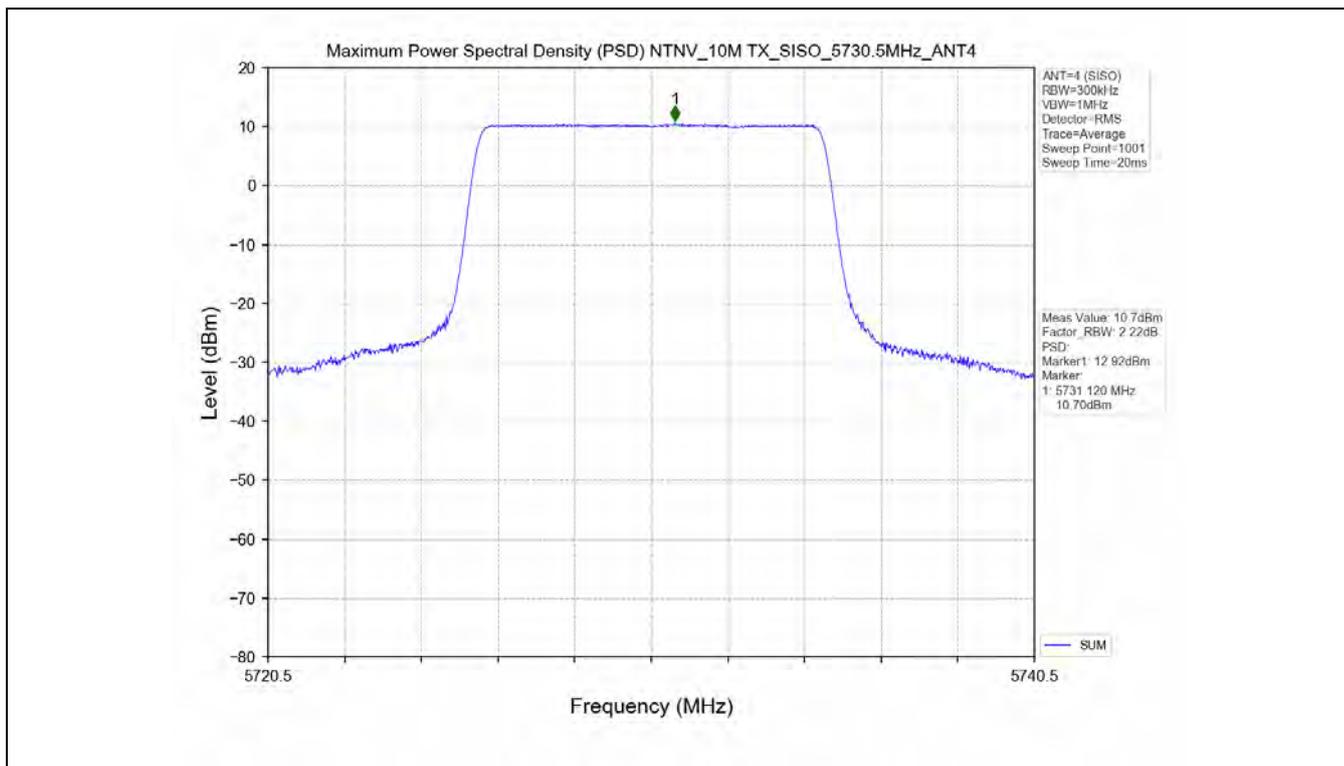
4. Maximum Power Spectral Density (PSD)

4.1 Test Result

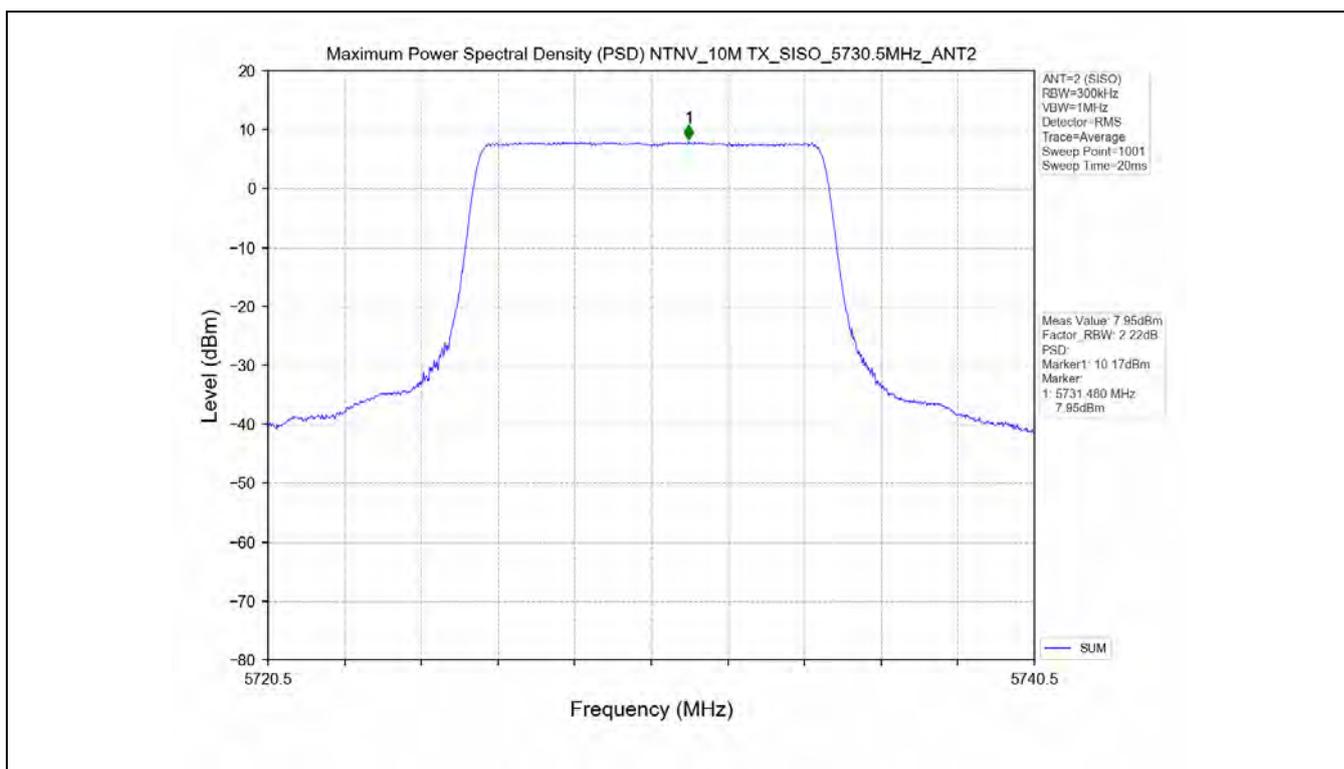
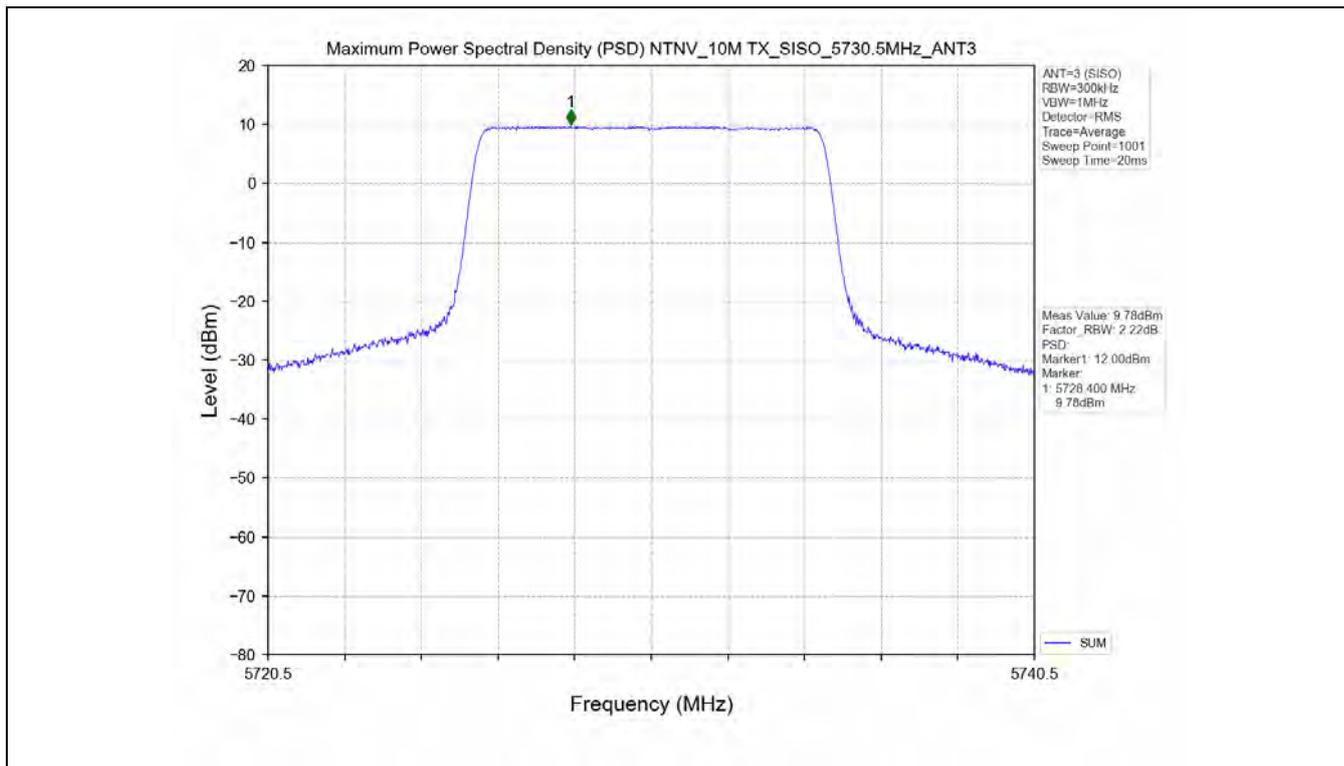
Test Mode	Frequency (MHz)	Maximum Power Spectral Density (dBm/MHz)	Verdict
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Test Mode	Frequency (MHz)	Tx Type	Maximum Power Spectral Density (dBm/500kHz)				Limits (dBm/500kHz)	Verdict
			Ant 4	Ant 3	Ant 2	Ant 1		
10M TX-10M	5730.5	SISO	12.92	12.00	10.17	9.63	≤30	PASS
	5787.5	SISO	12.79	12.15	10.89	9.97	≤30	PASS
	5844.5	SISO	13.11	12.30	10.79	10.28	≤30	PASS
20M TX-20M	5735.5	SISO	9.68	8.88	6.67	6.55	≤30	PASS
	5787.5	SISO	9.77	9.15	7.35	7.07	≤30	PASS
	5839.5	SISO	10.14	9.40	7.43	7.35	≤30	PASS
40M TX-40M	5745.5	SISO	5.59	5.16	3.32	2.94	≤30	PASS
	5787.5	SISO	5.71	5.16	3.39	2.86	≤30	PASS
	5829.5	SISO	6.22	5.59	3.60	3.66	≤30	PASS

4.2 Test Graph

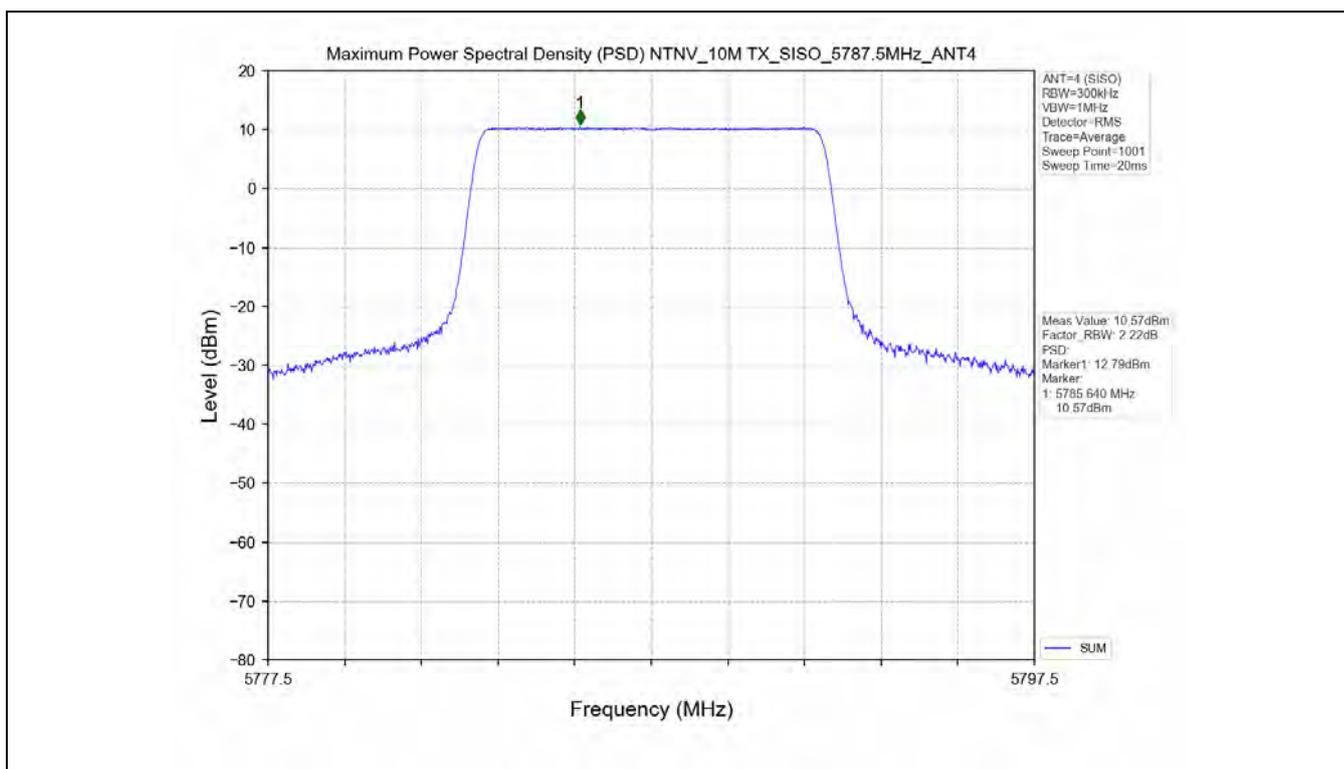
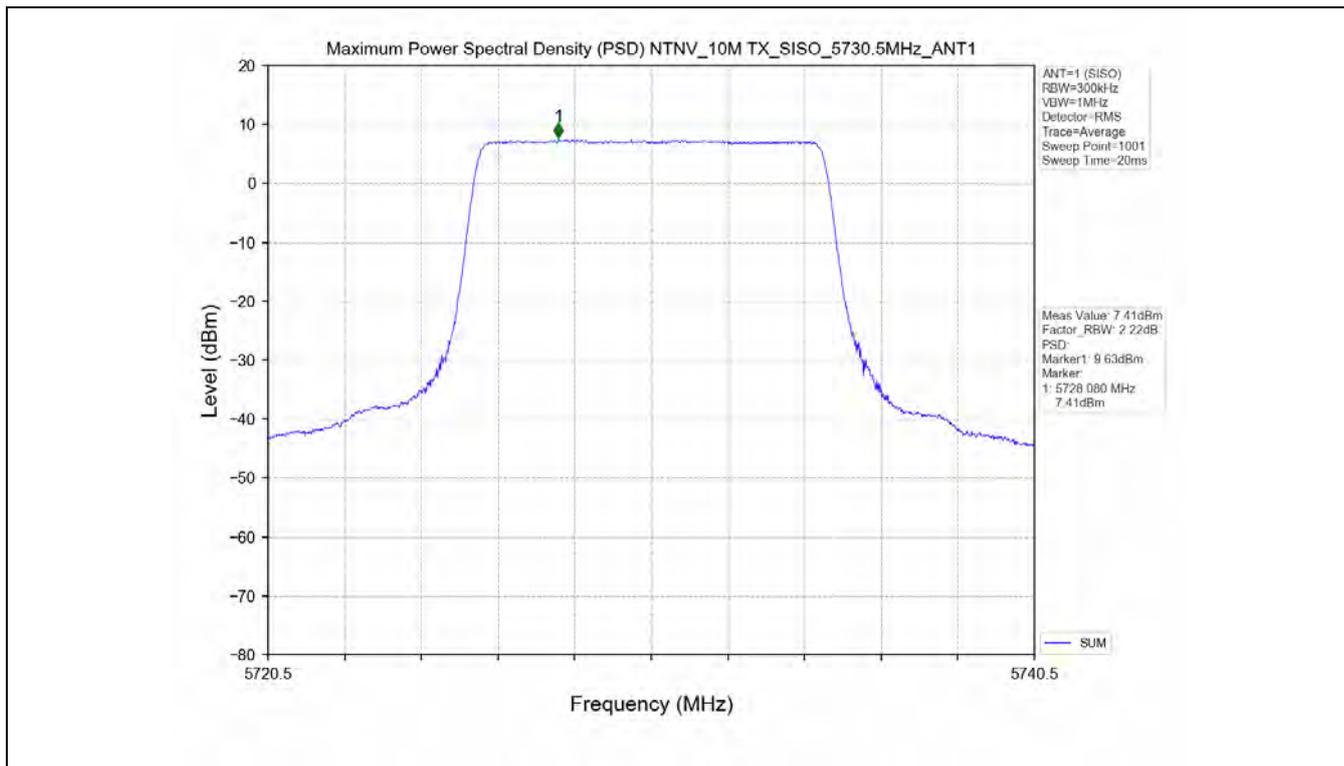


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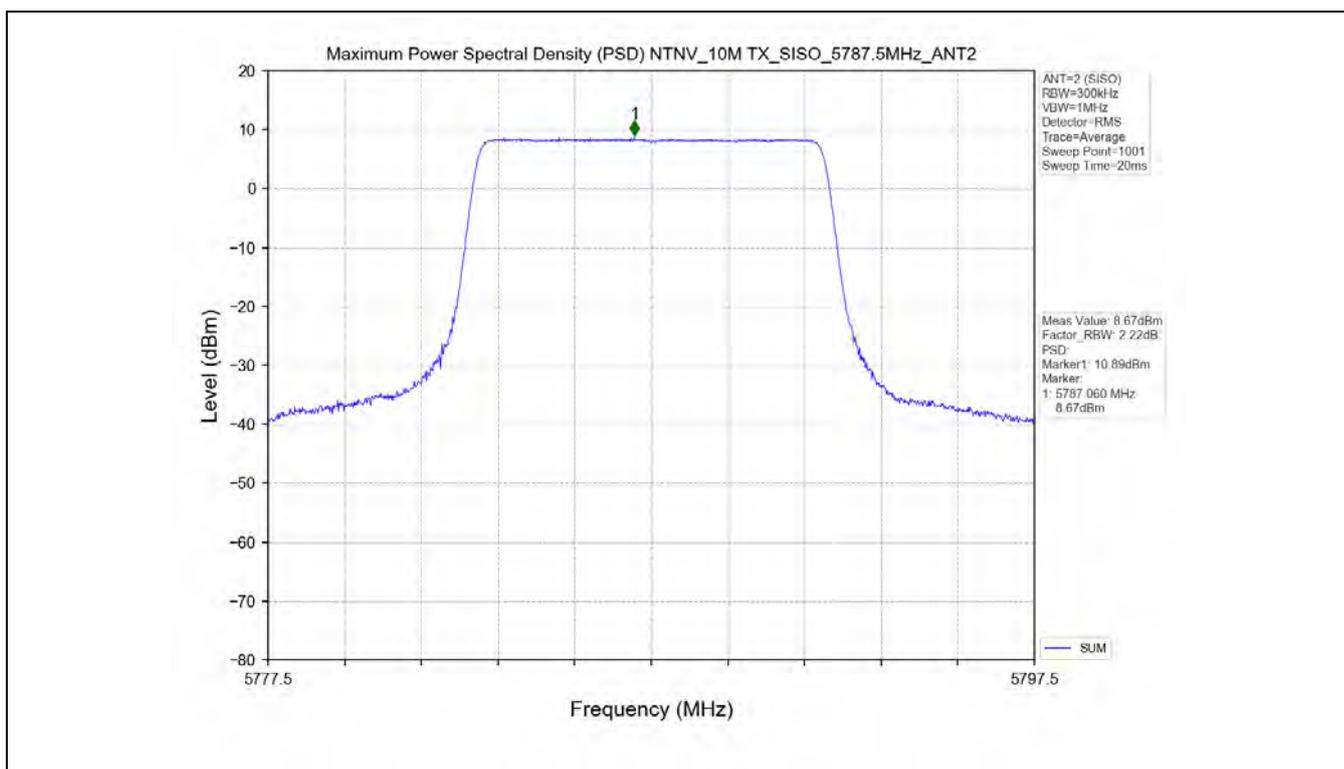
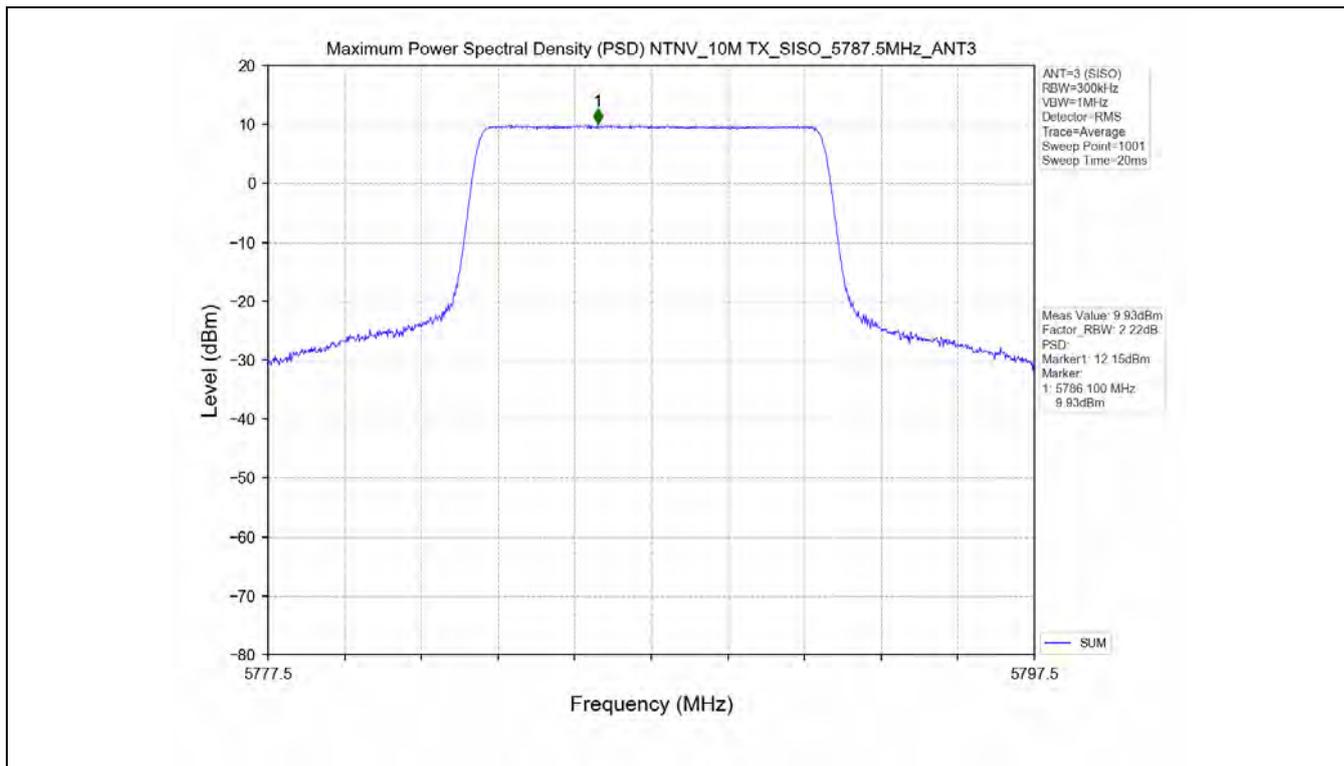


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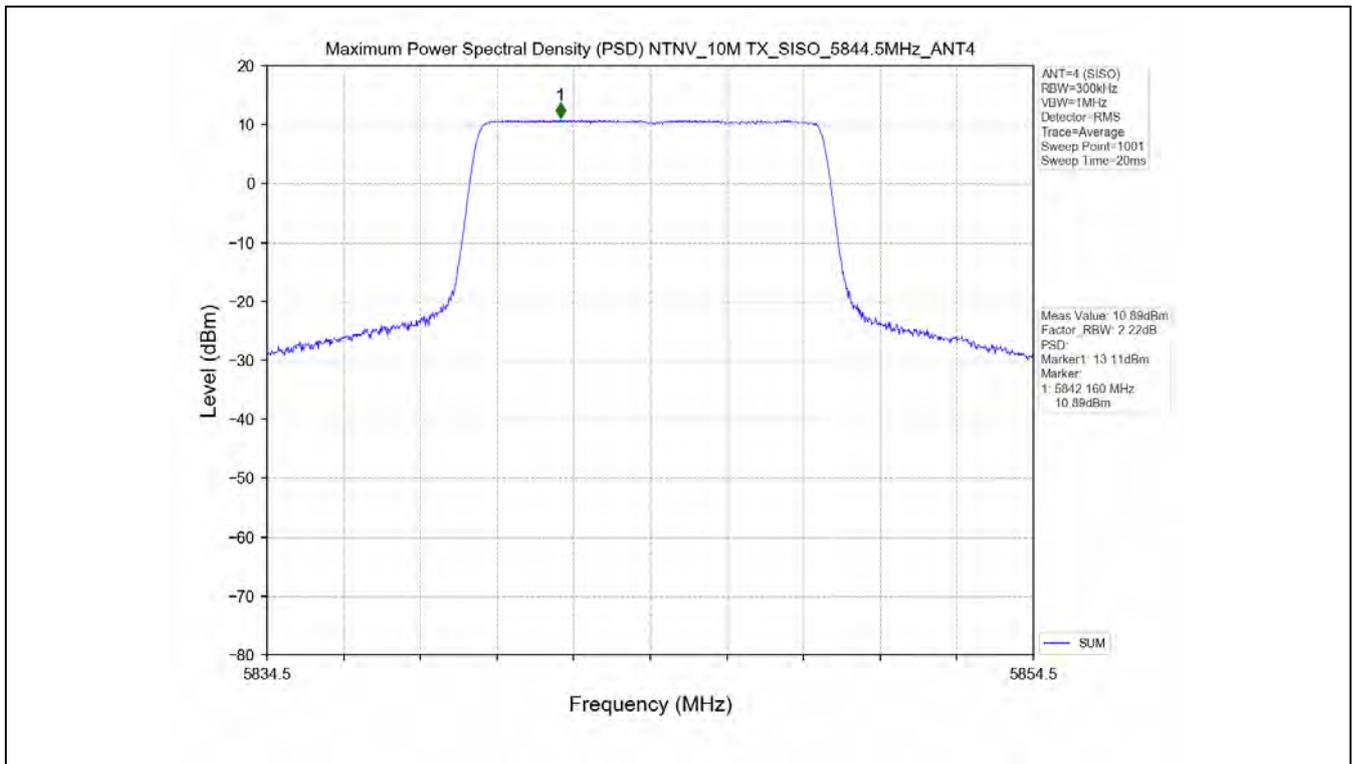
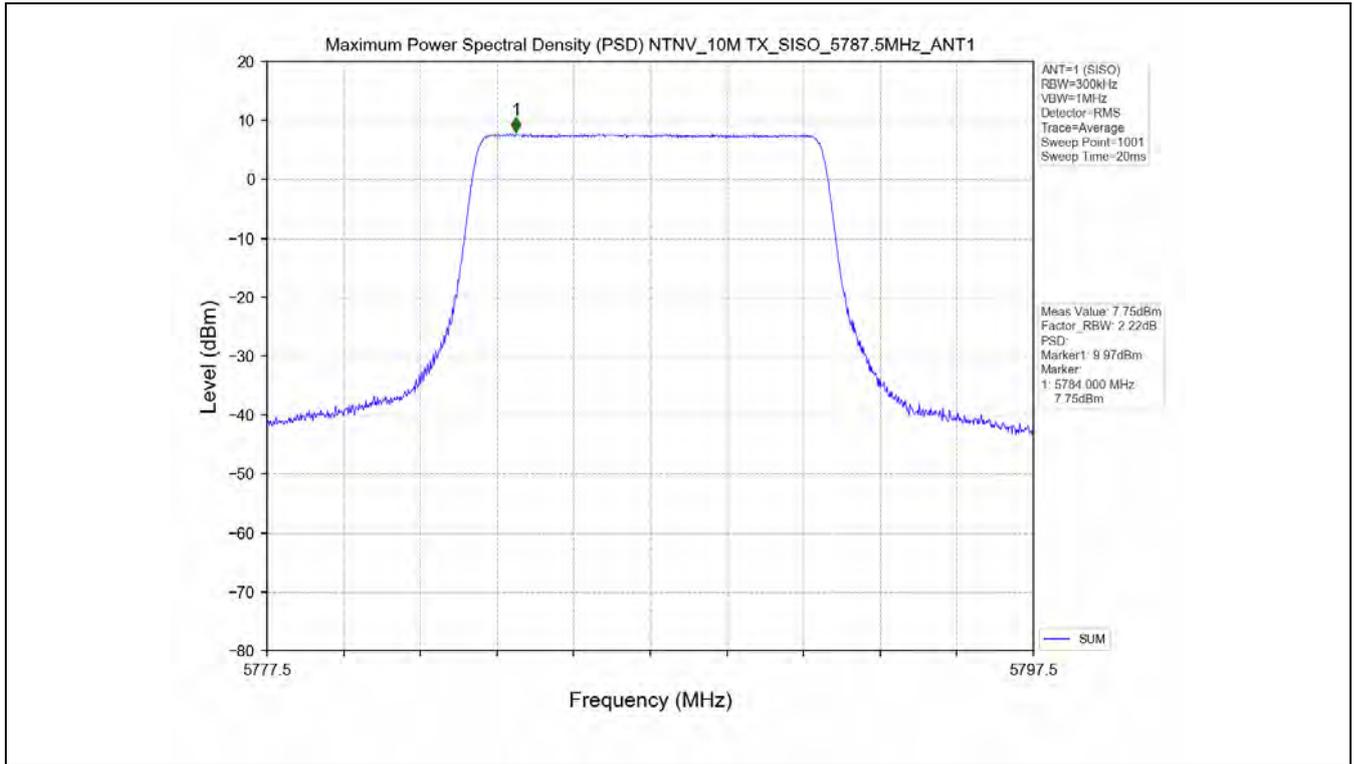


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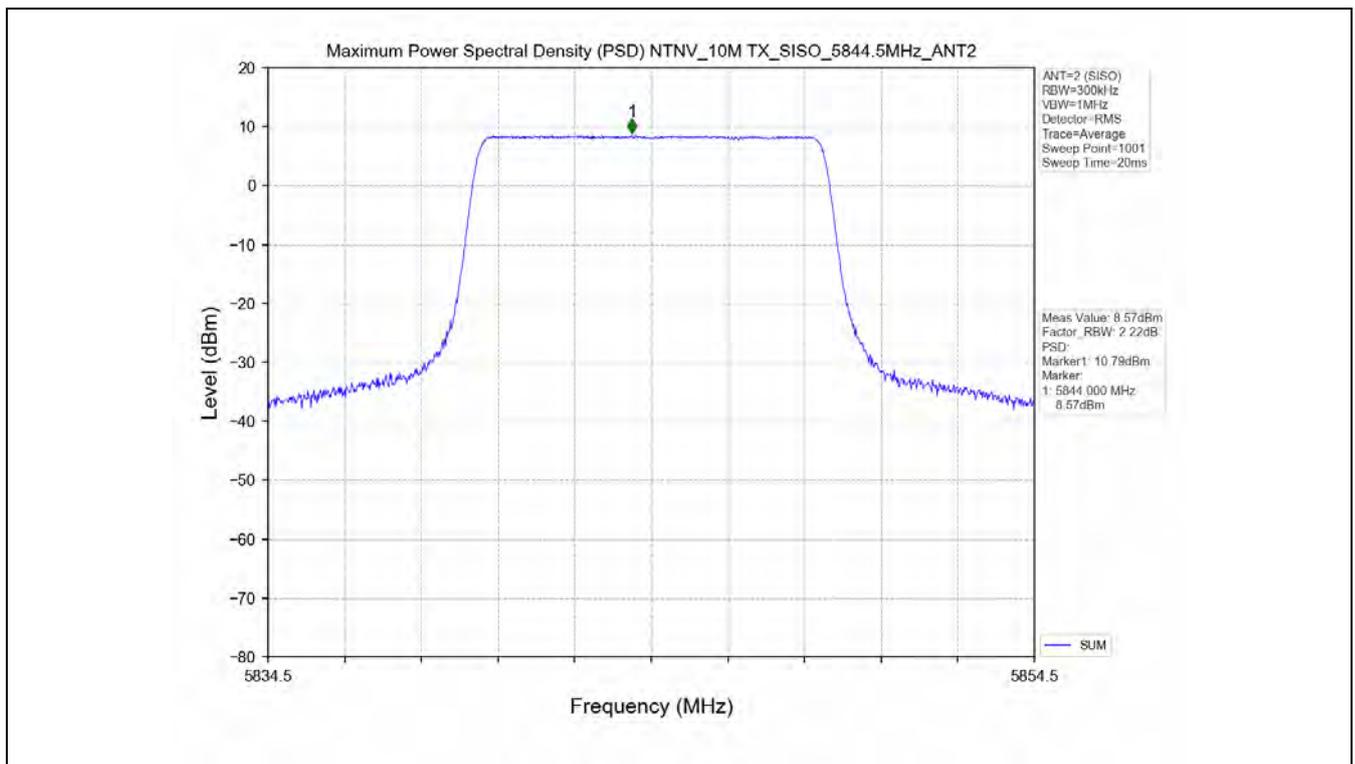
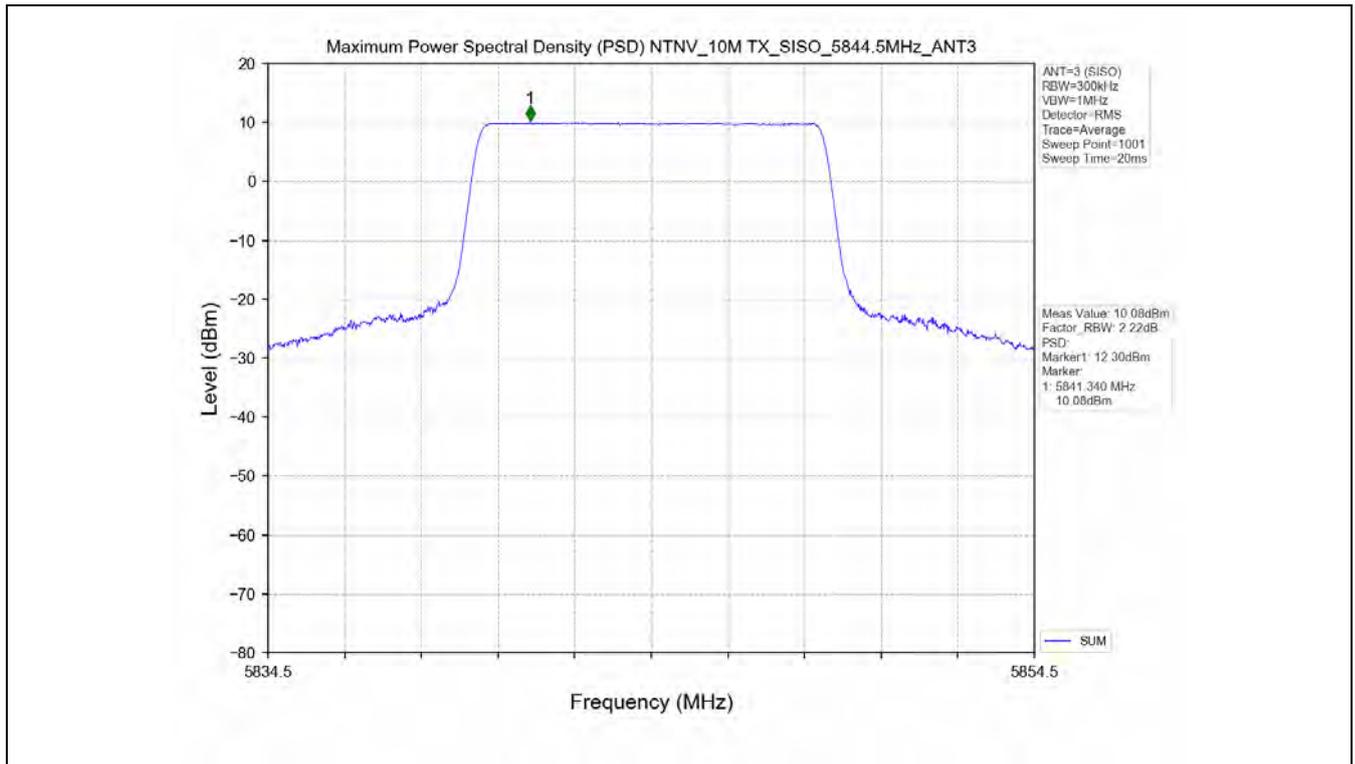


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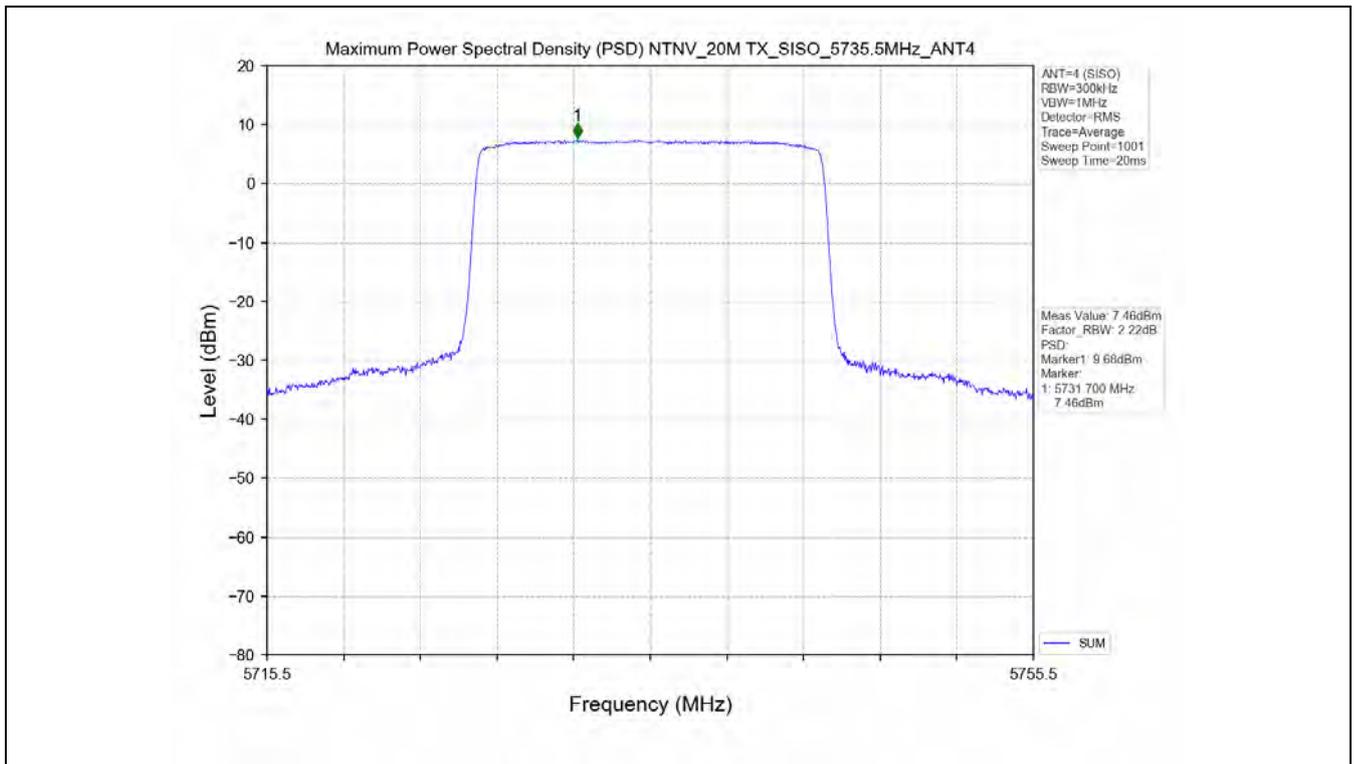
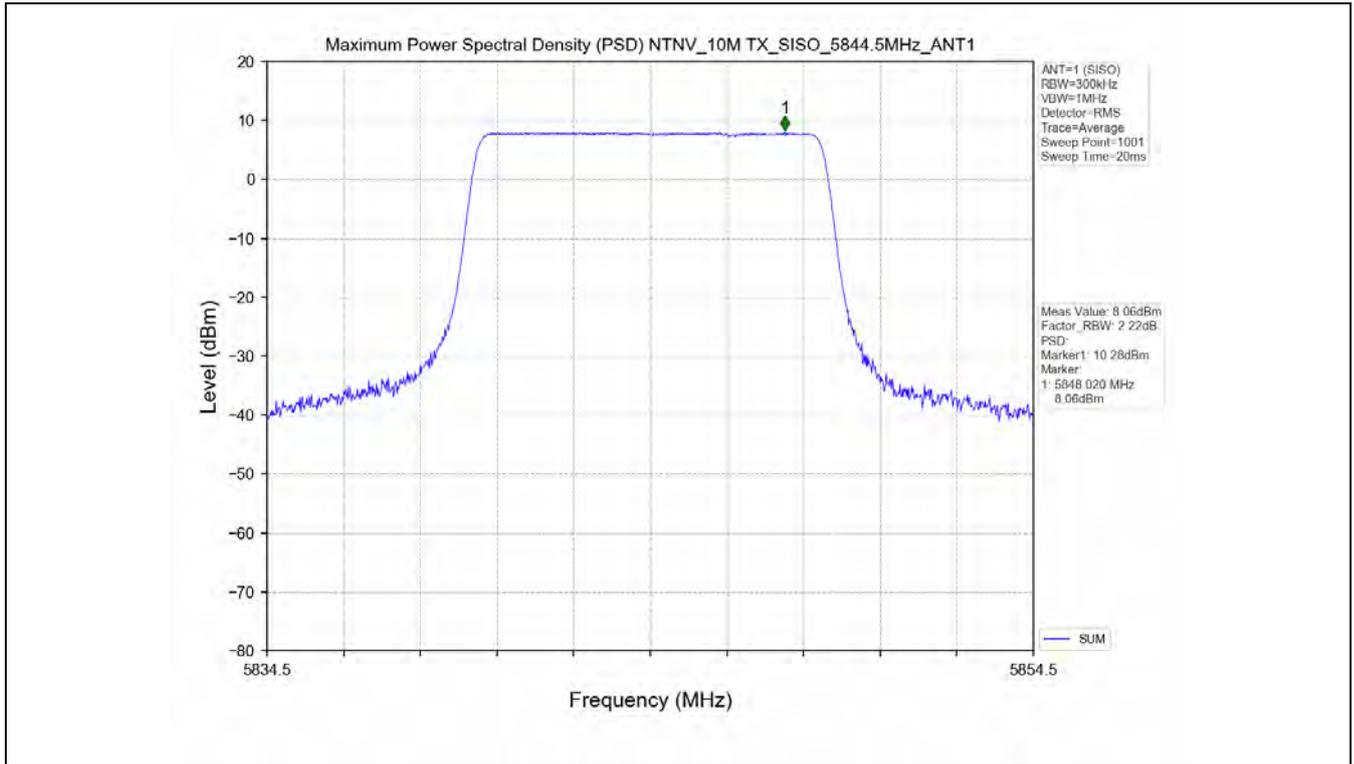


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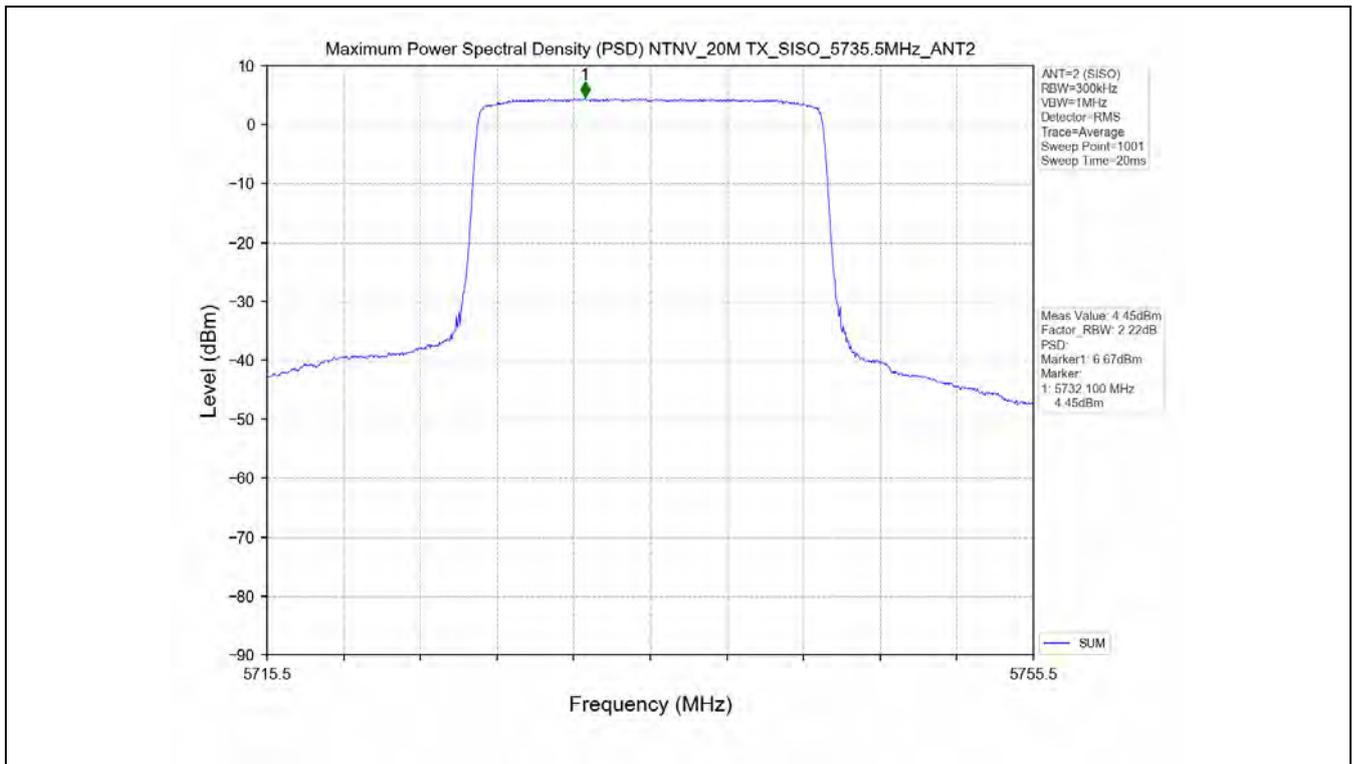
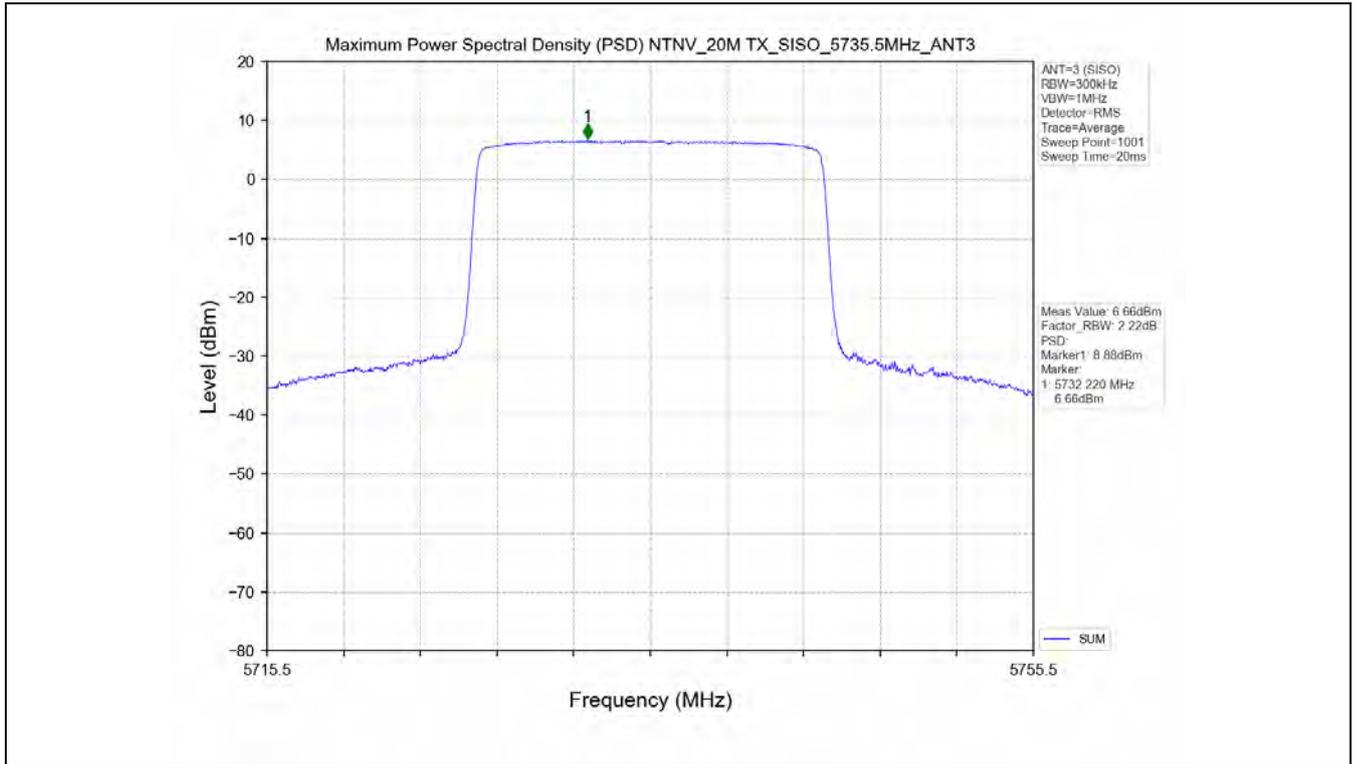


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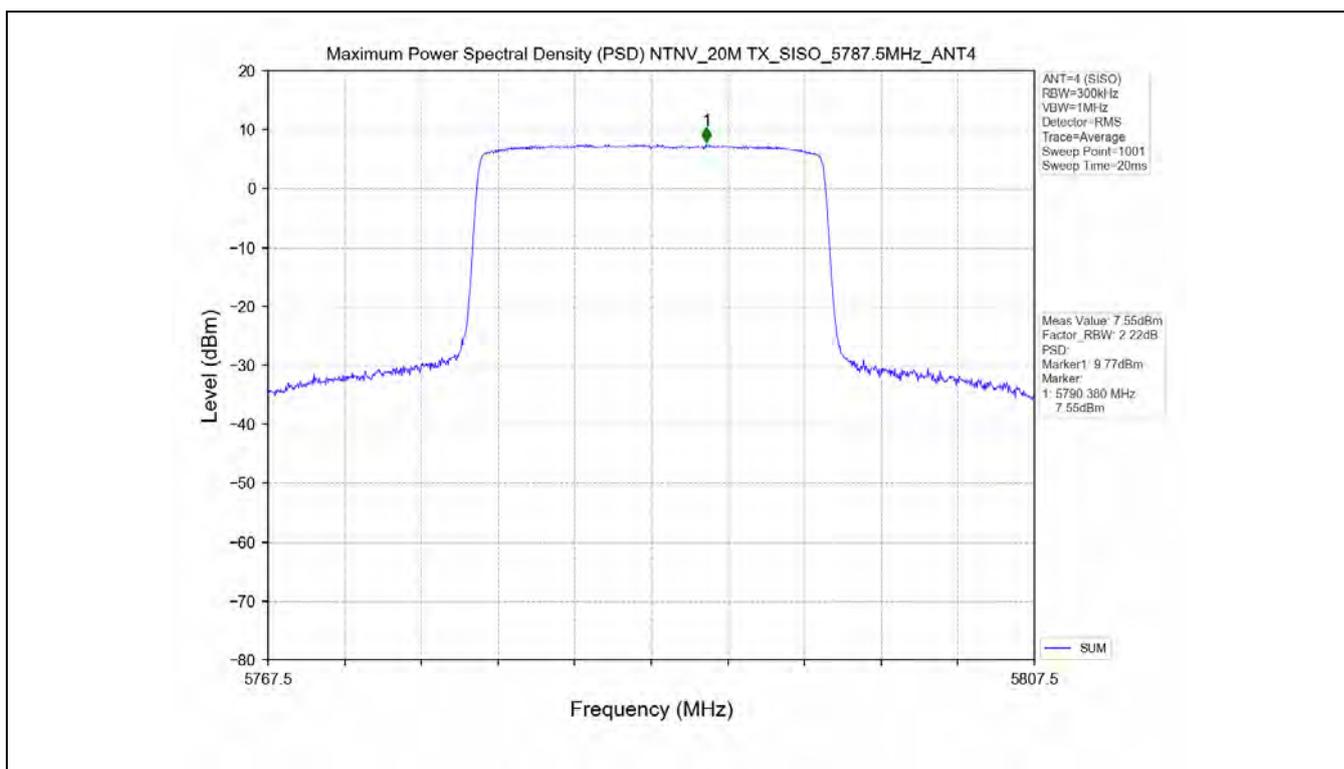
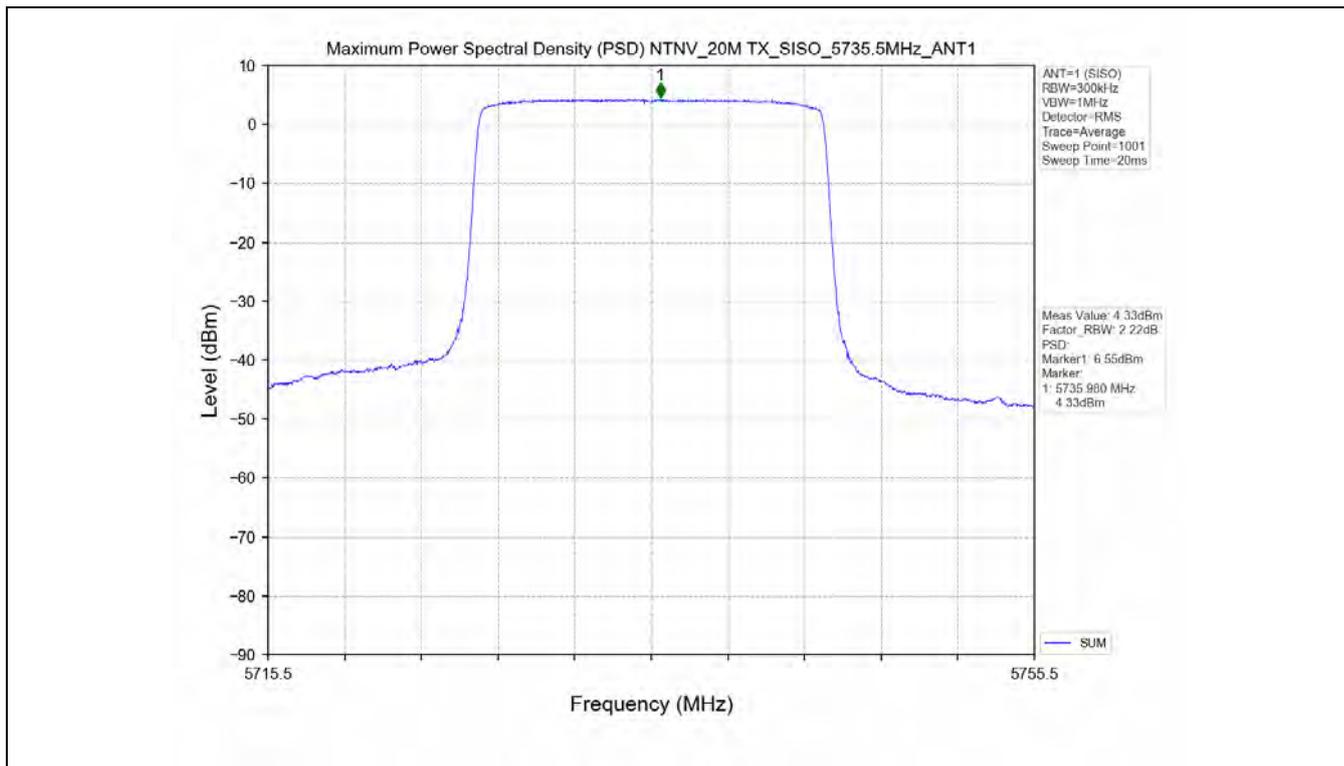
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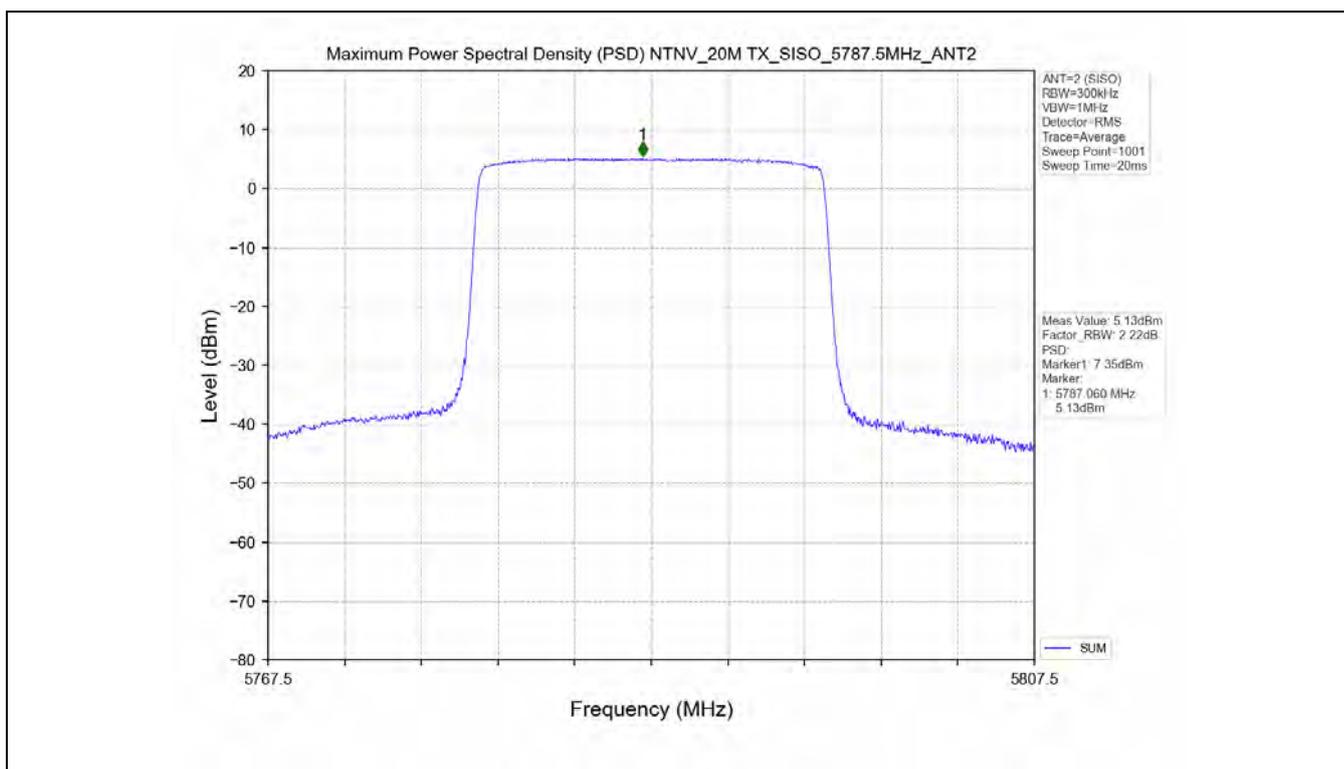
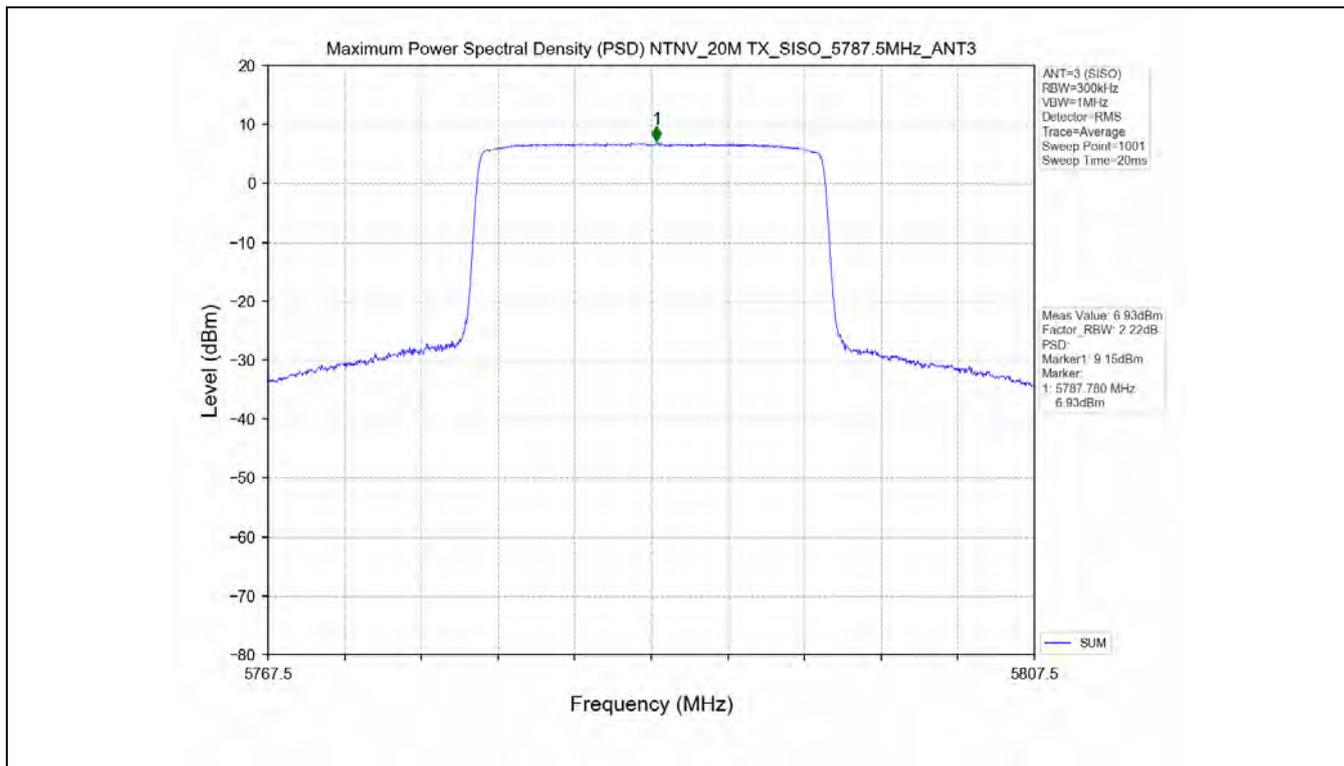
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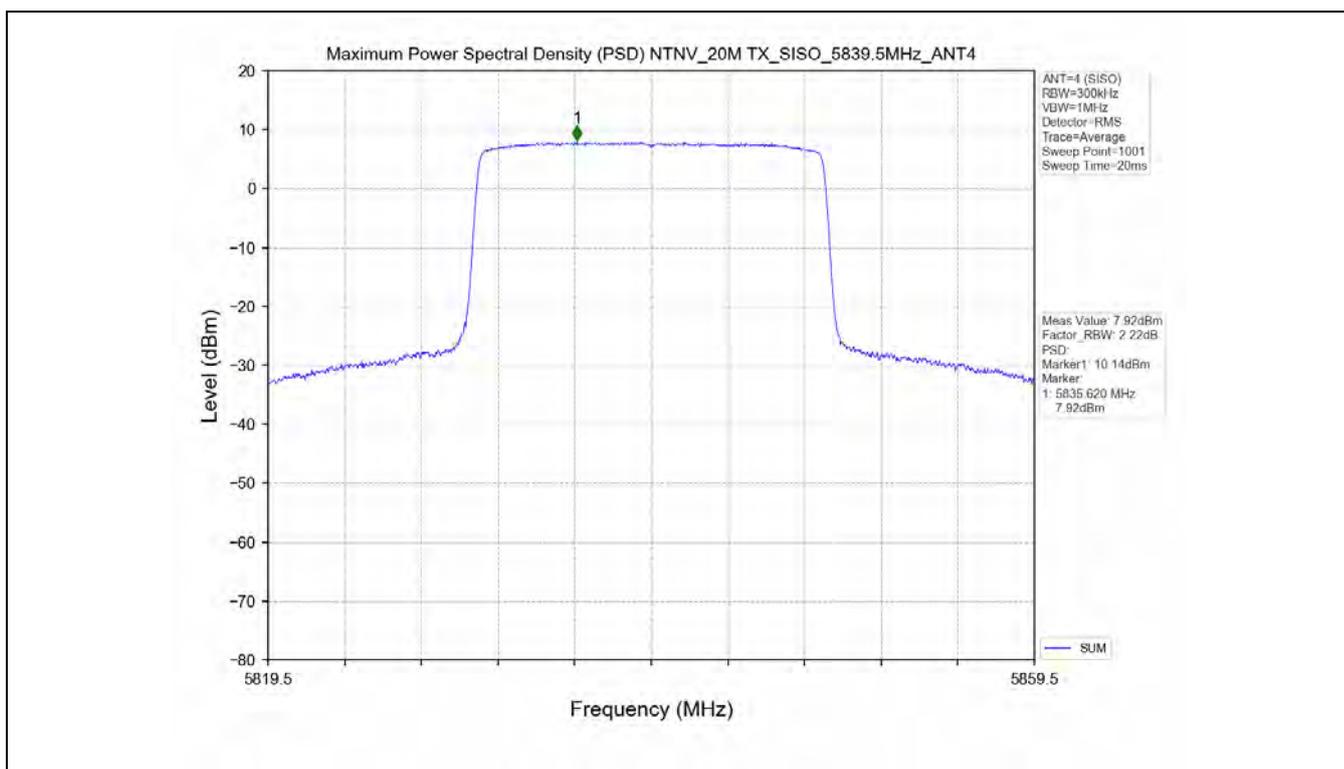
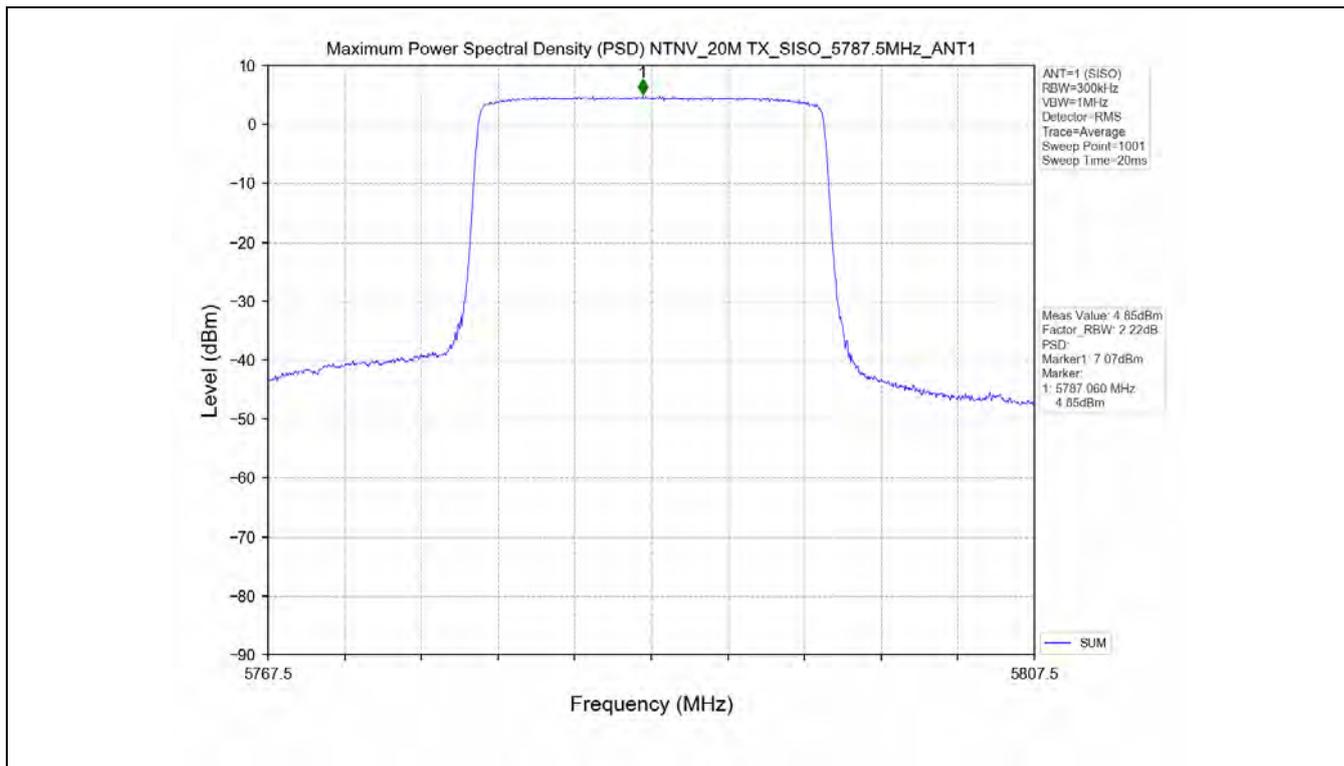
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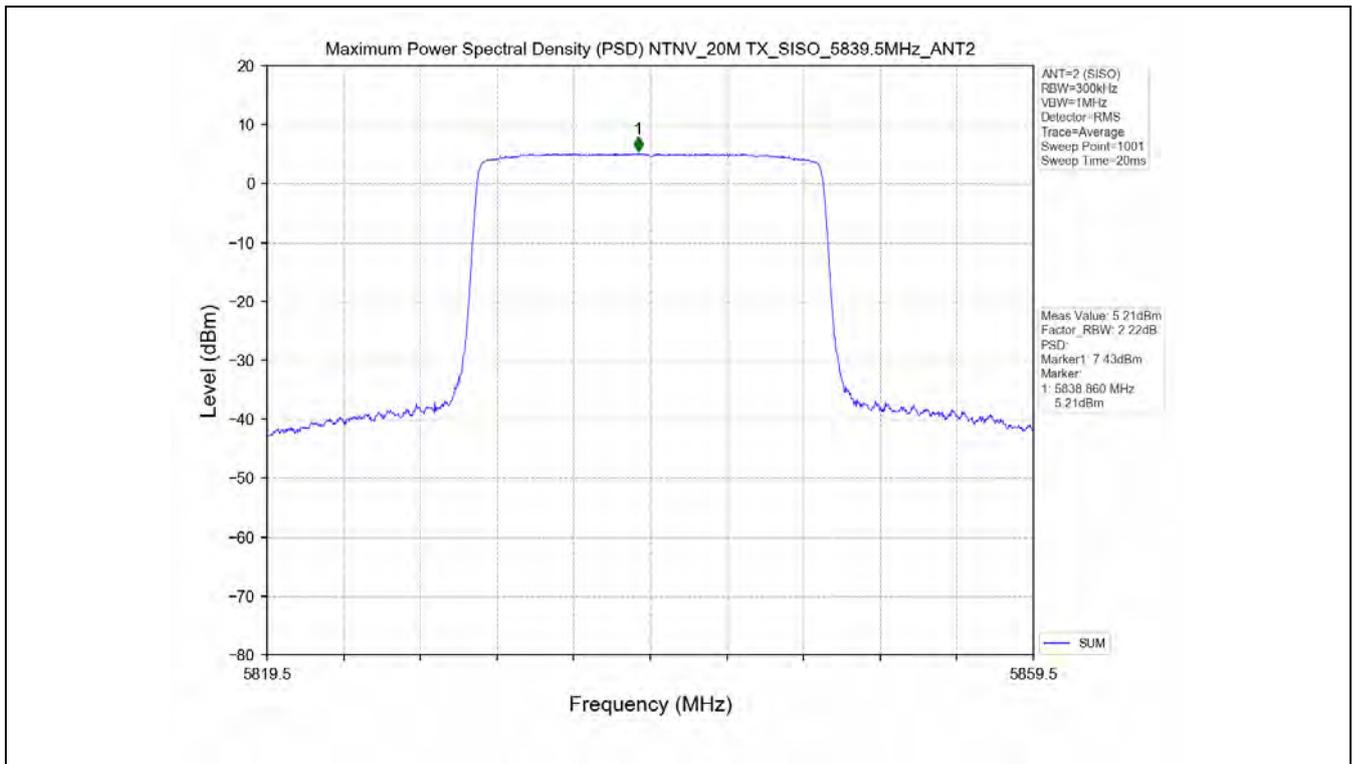
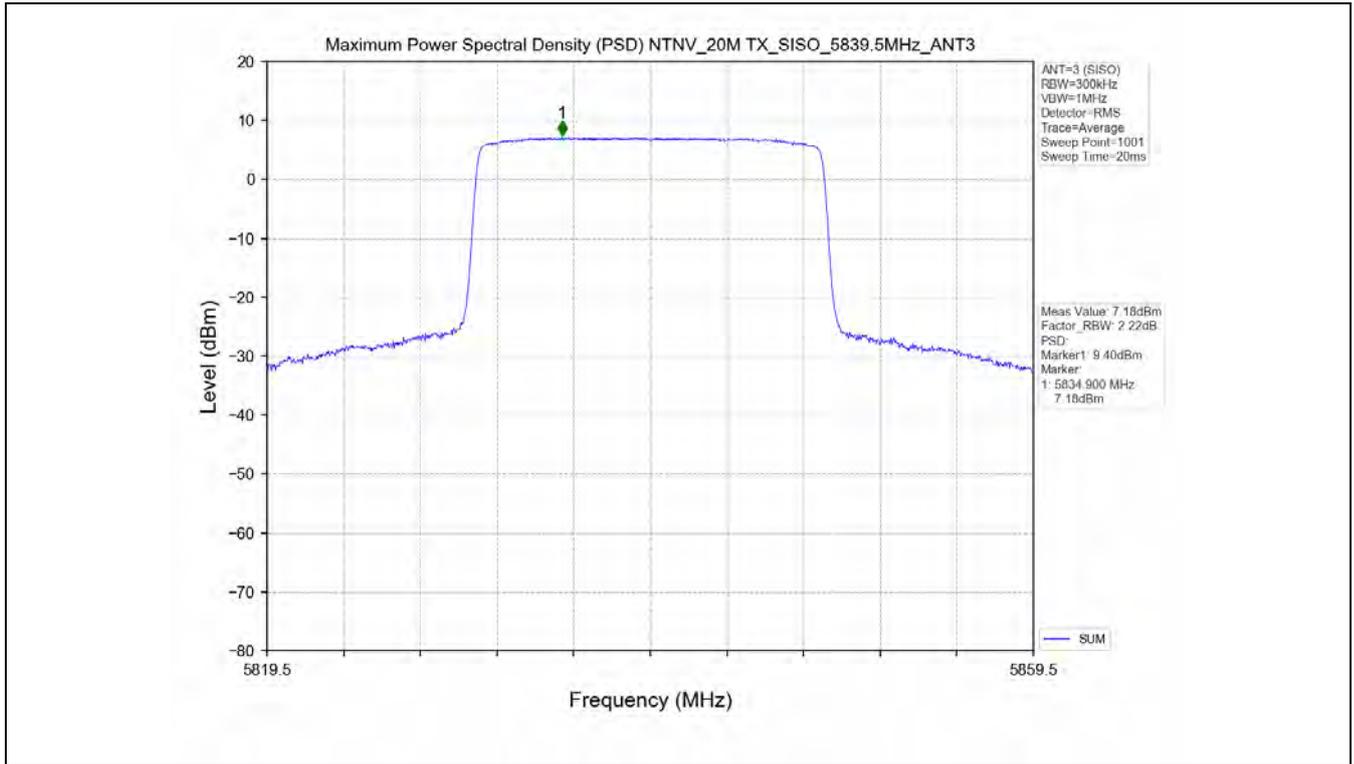
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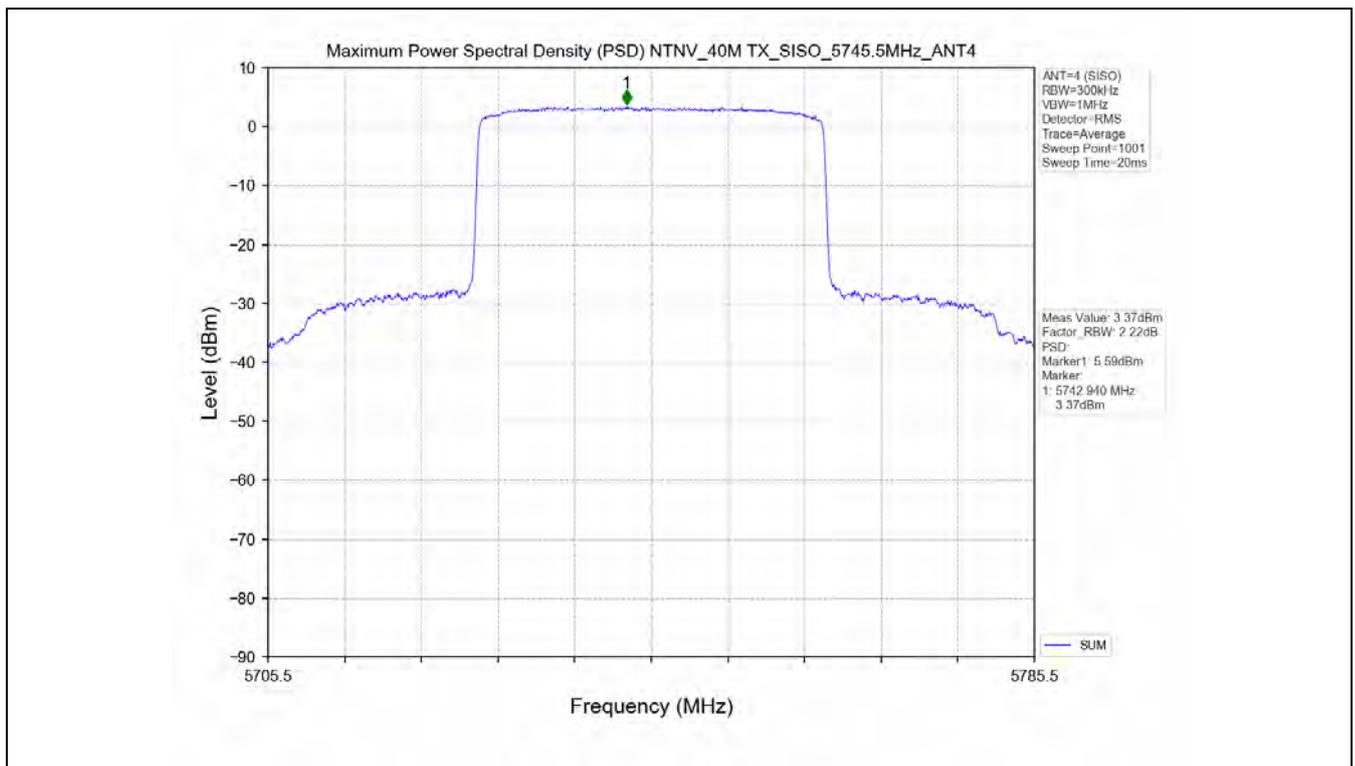
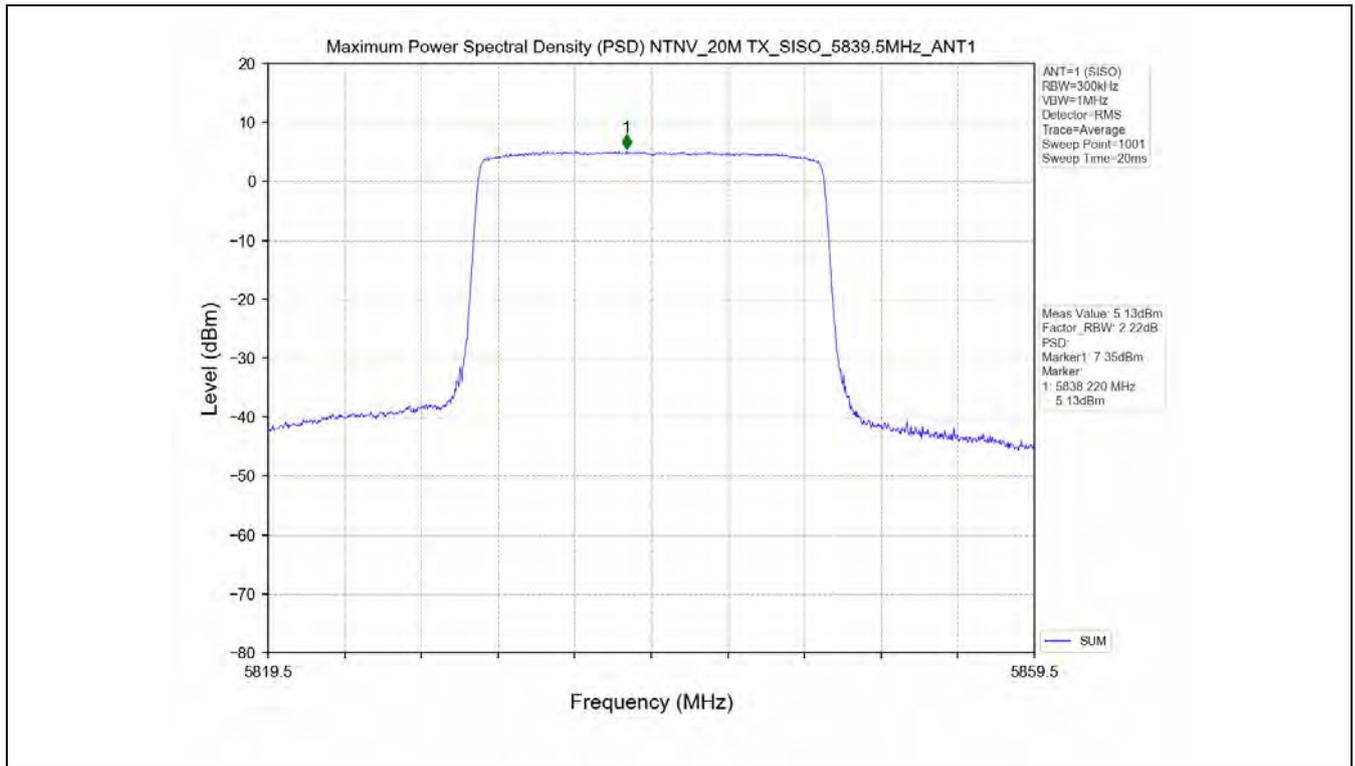
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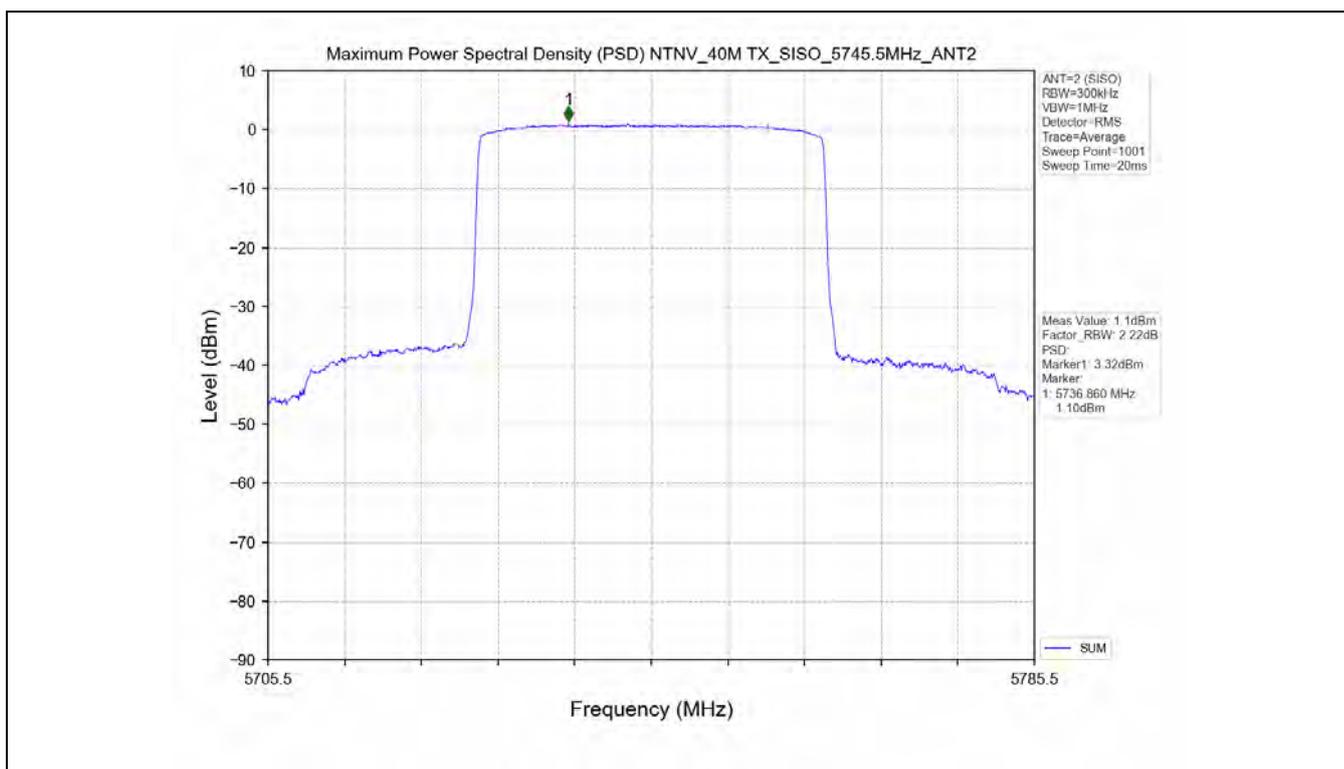
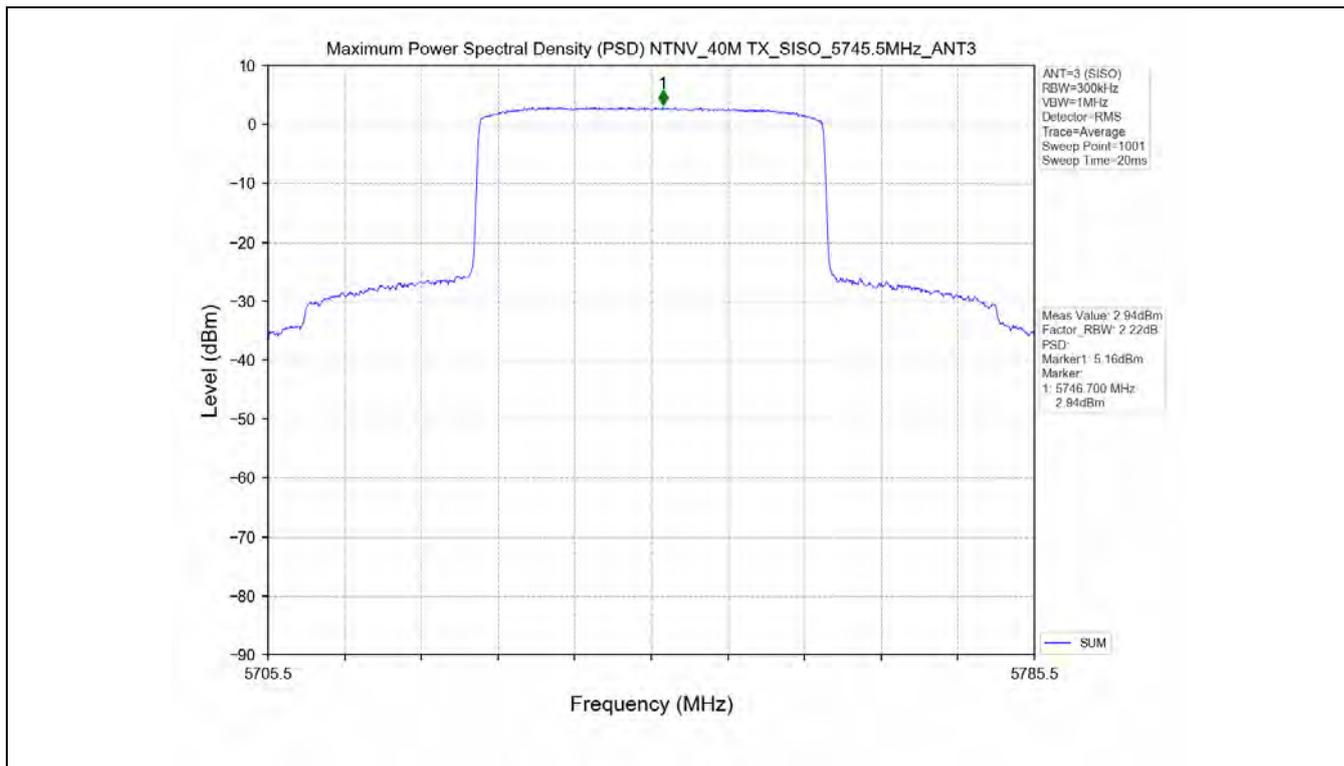
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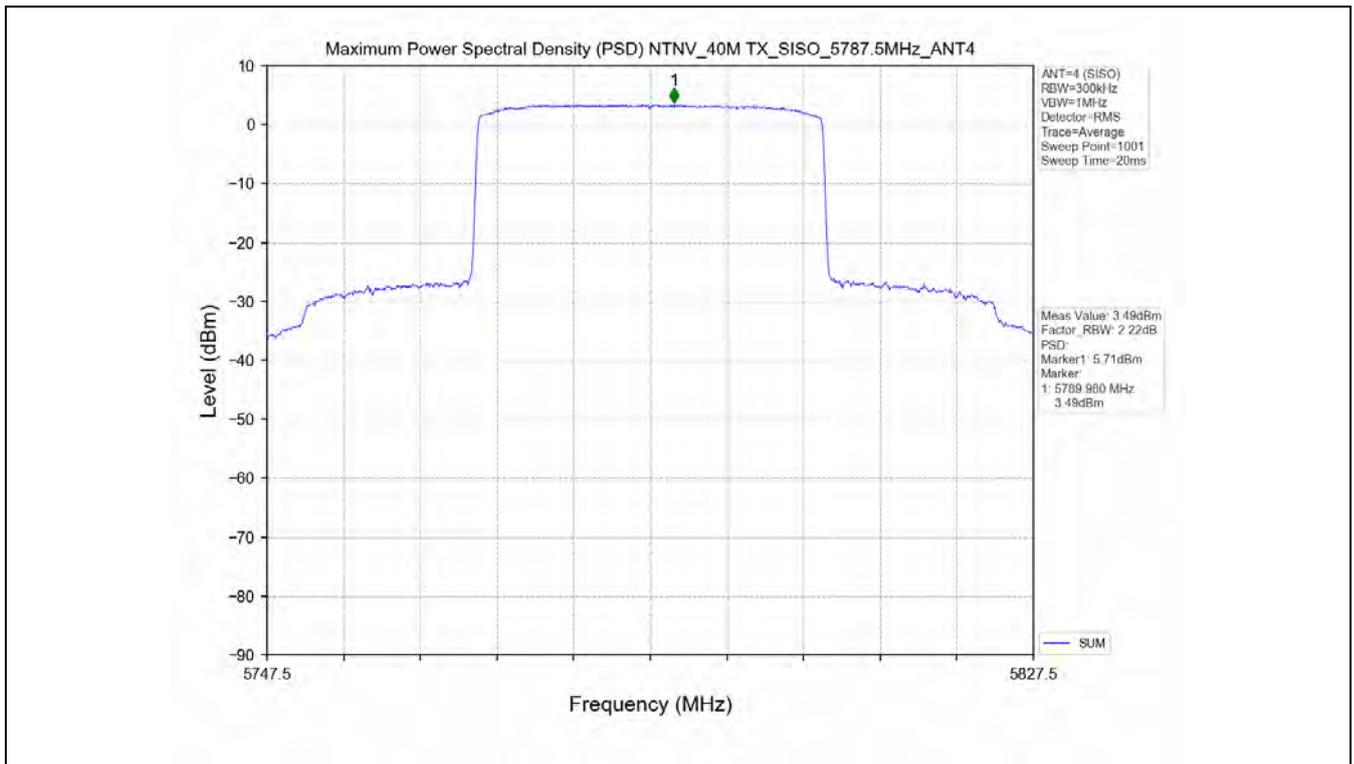
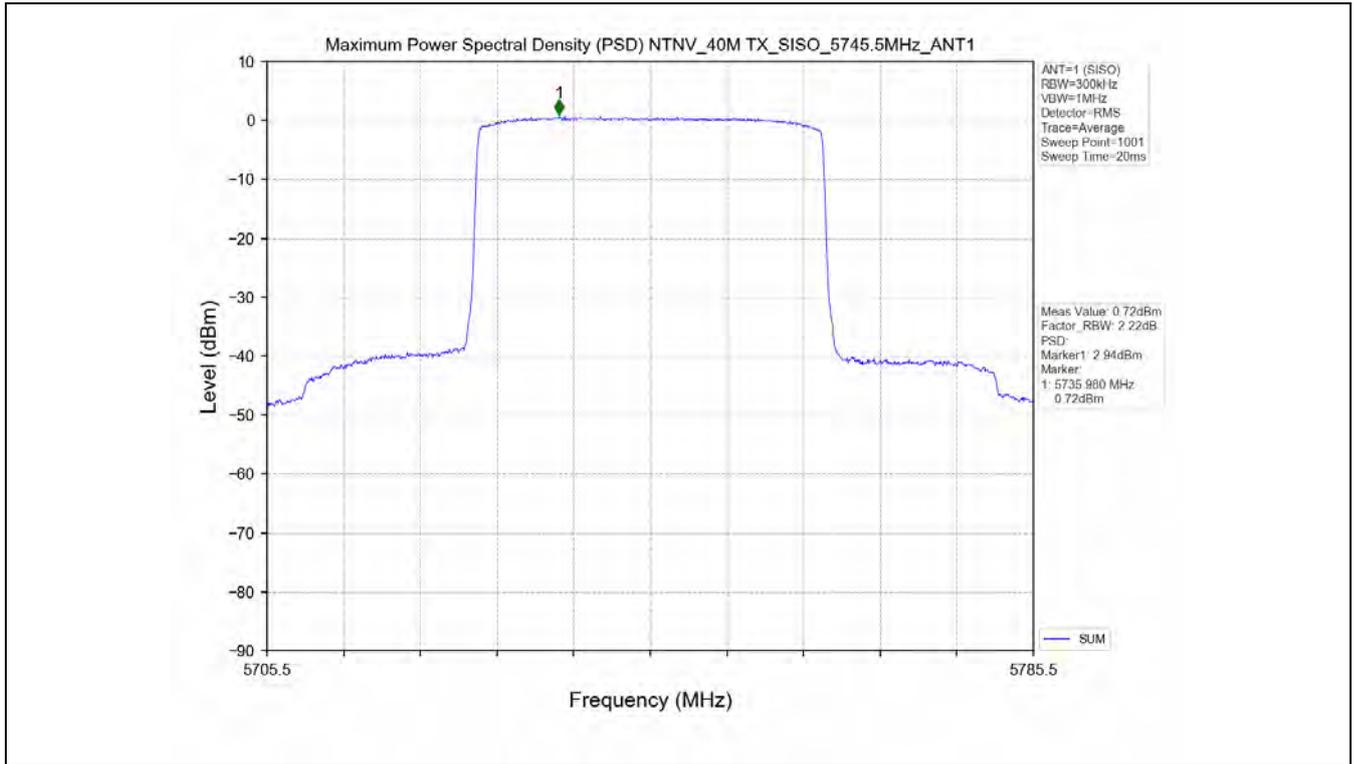
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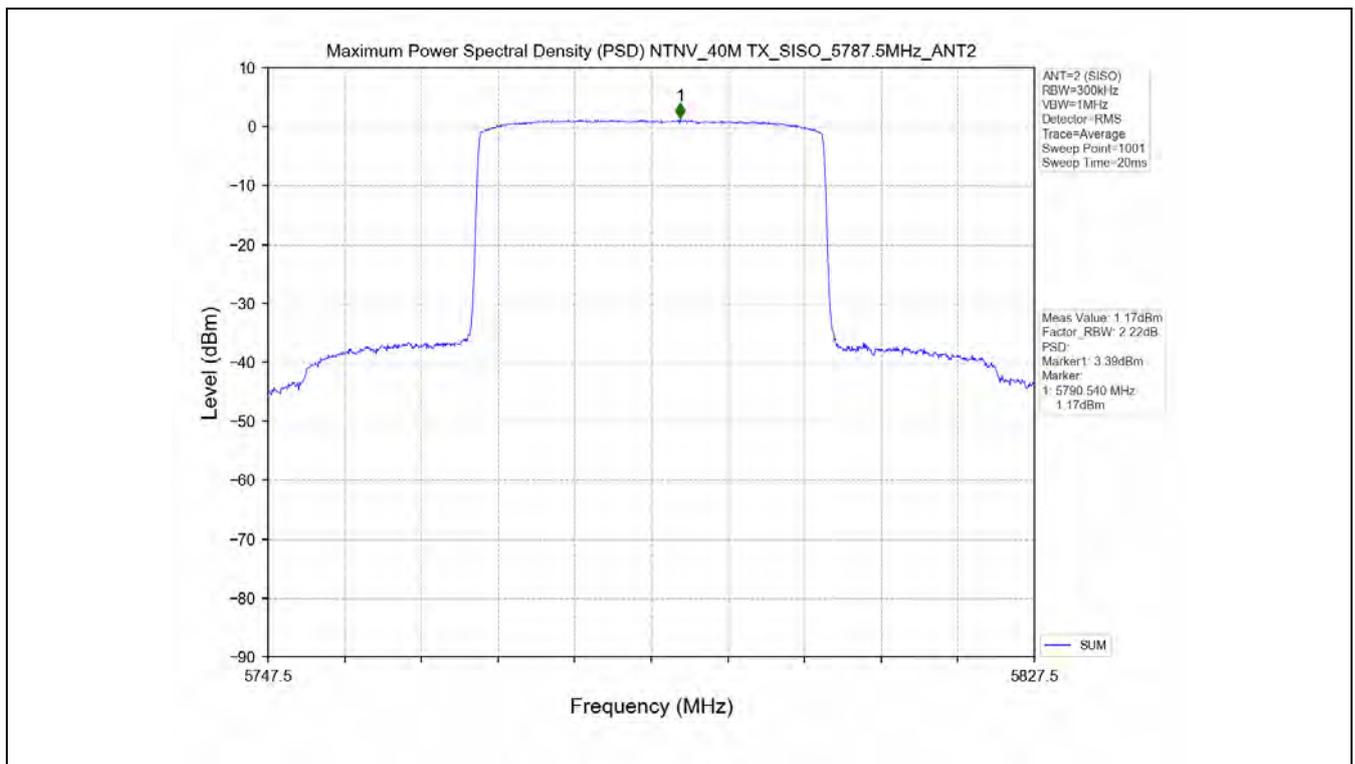
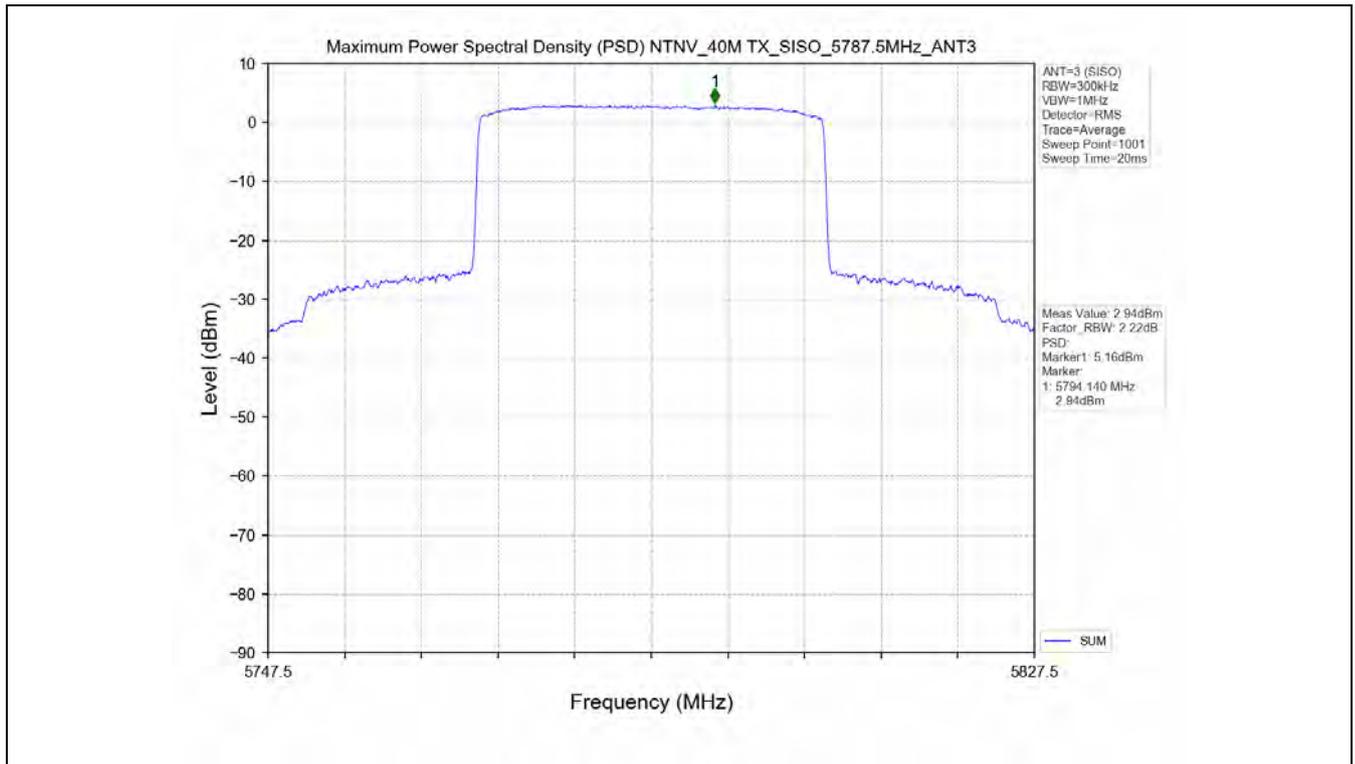
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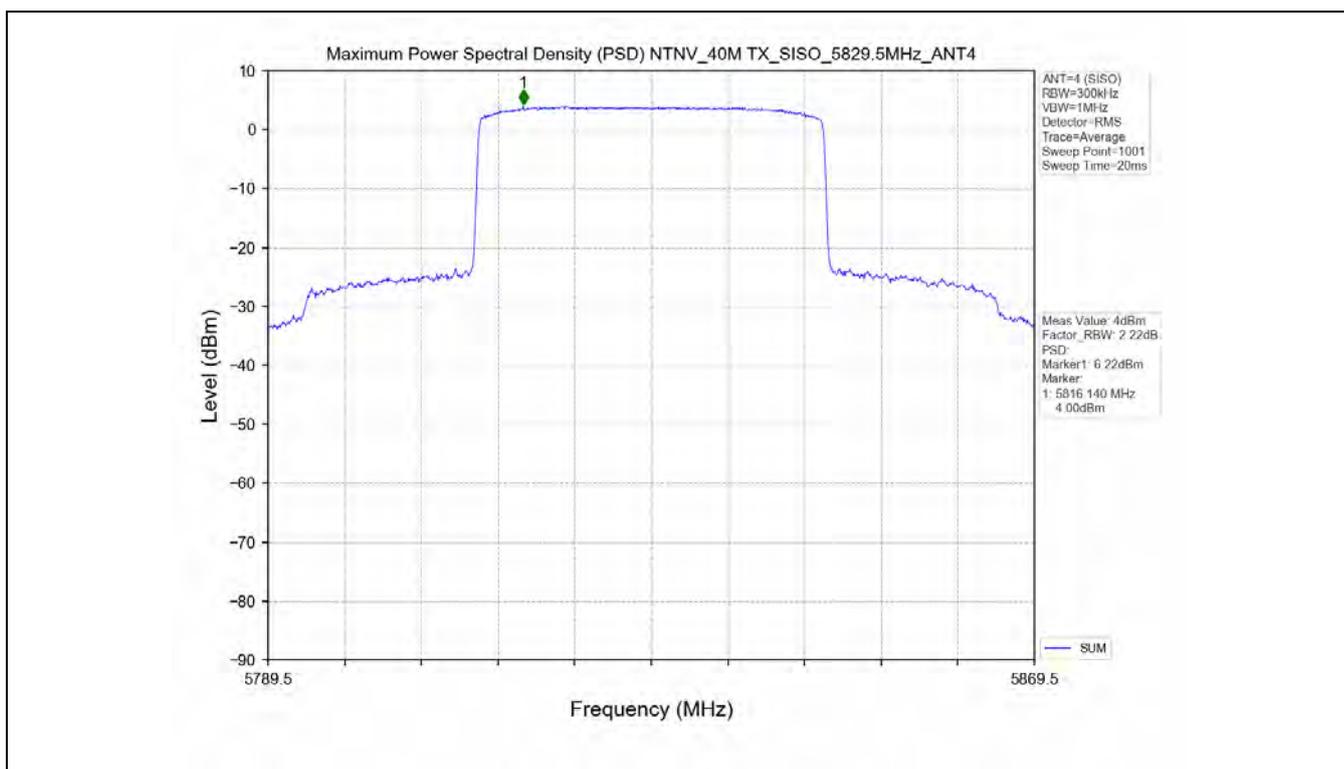
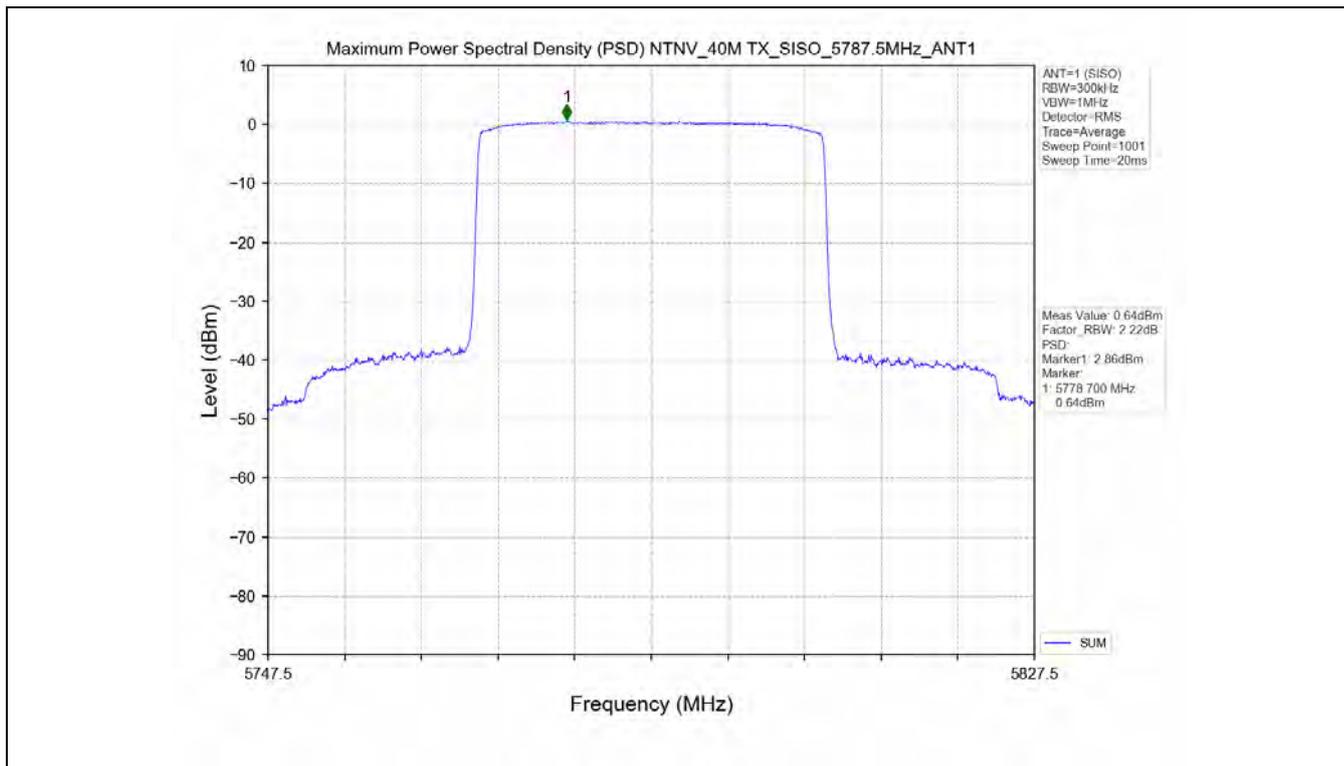
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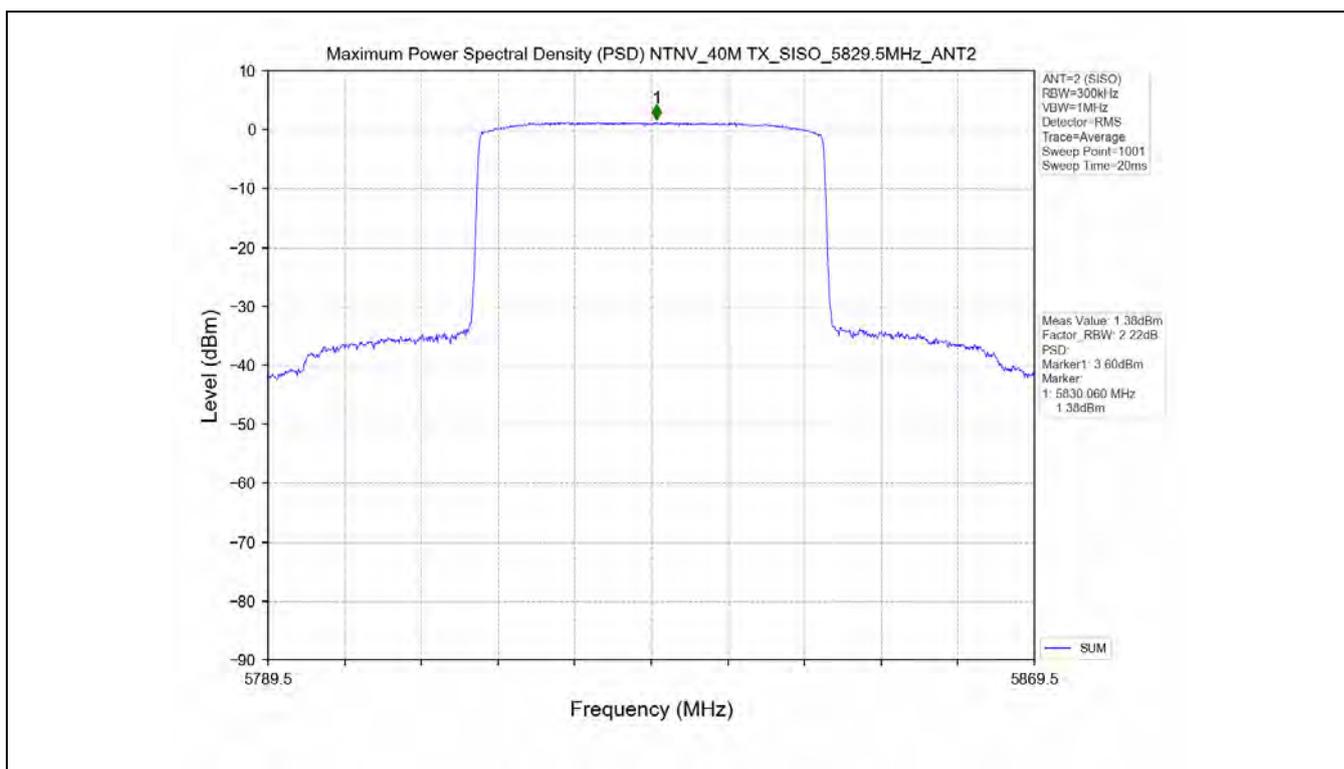
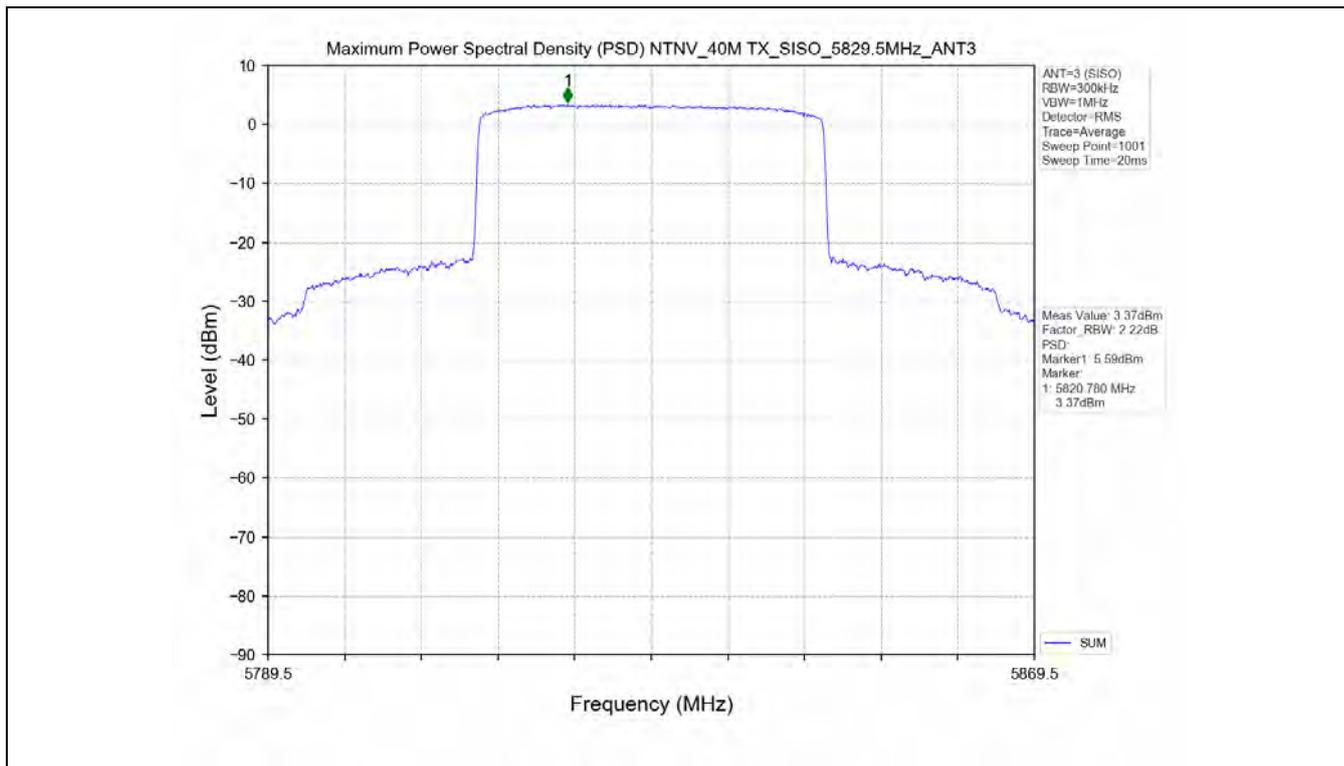
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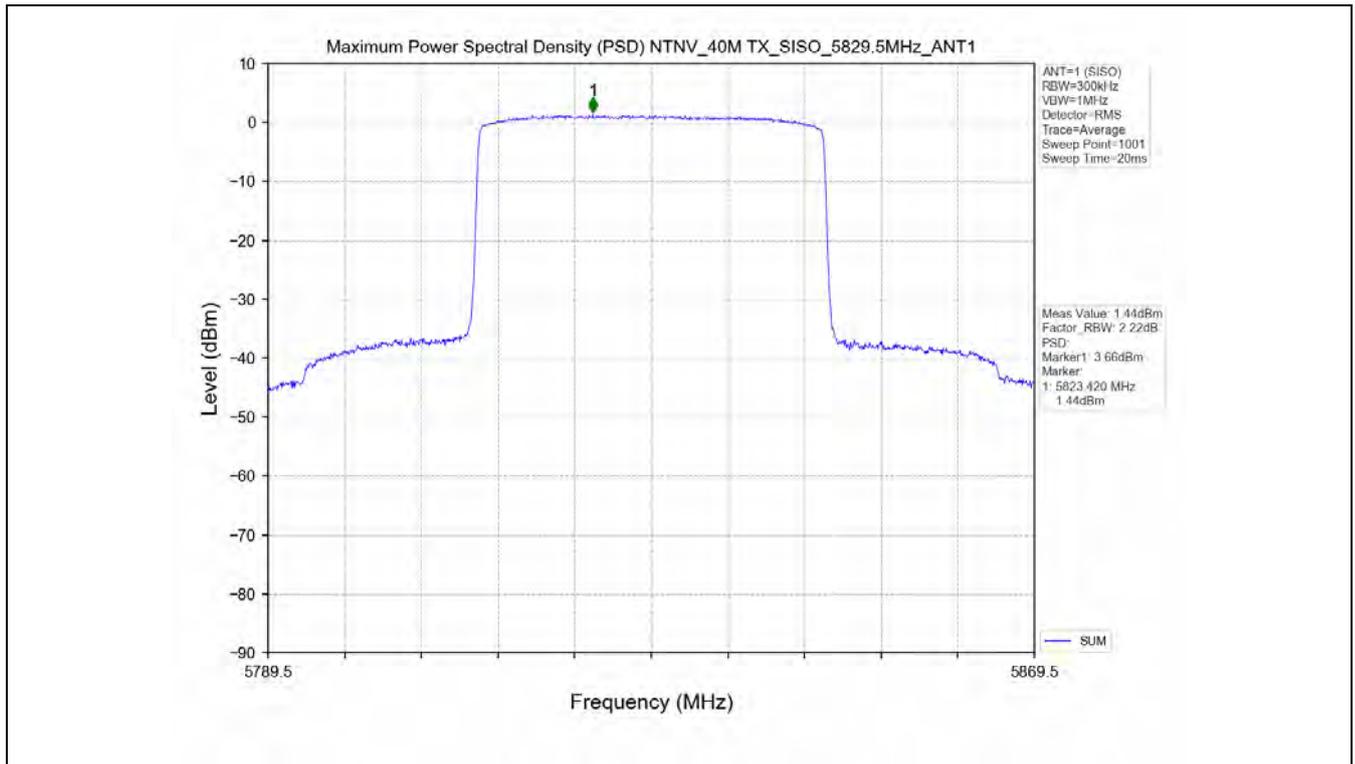
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No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgs.com.cn
 中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



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5. Frequency Stability

5.1 Test Result

Test Condition	Test Mode	Test Frequency [MHz]	Ant	Result [ppm]	Limit [ppm]	Verdict
NTVN	10M TX	5730.5	1	-5.24	<=20	PASS
		5787.5	1	3.46	<=20	PASS
		5844.5	1	-1.71	<=20	PASS
	20M TX	5735.5	1	0	<=20	PASS
		5787.5	1	-3.46	<=20	PASS
		5839.5	1	3.42	<=20	PASS
	40M TX	5745.5	1	6.96	<=20	PASS
		5787.5	1	0	<=20	PASS
		5829.5	1	0	<=20	PASS



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