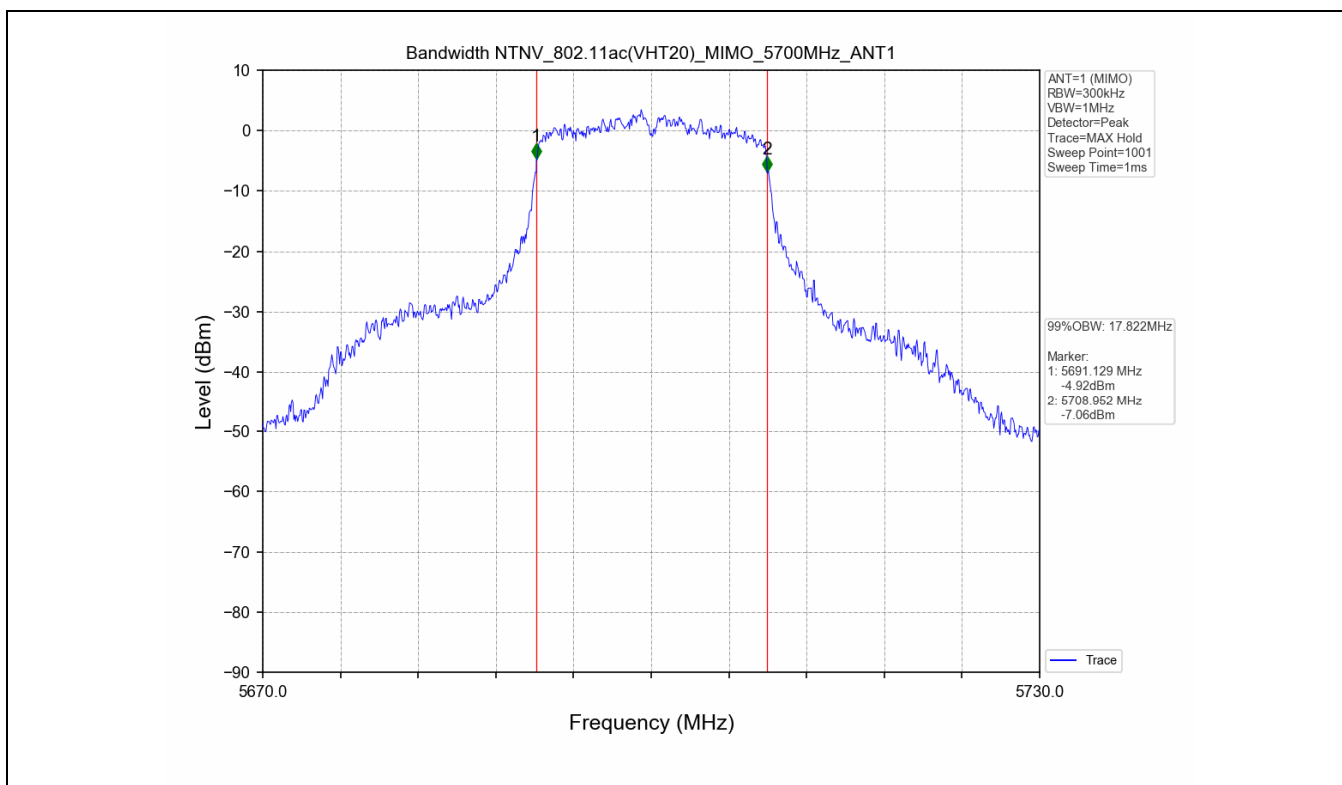
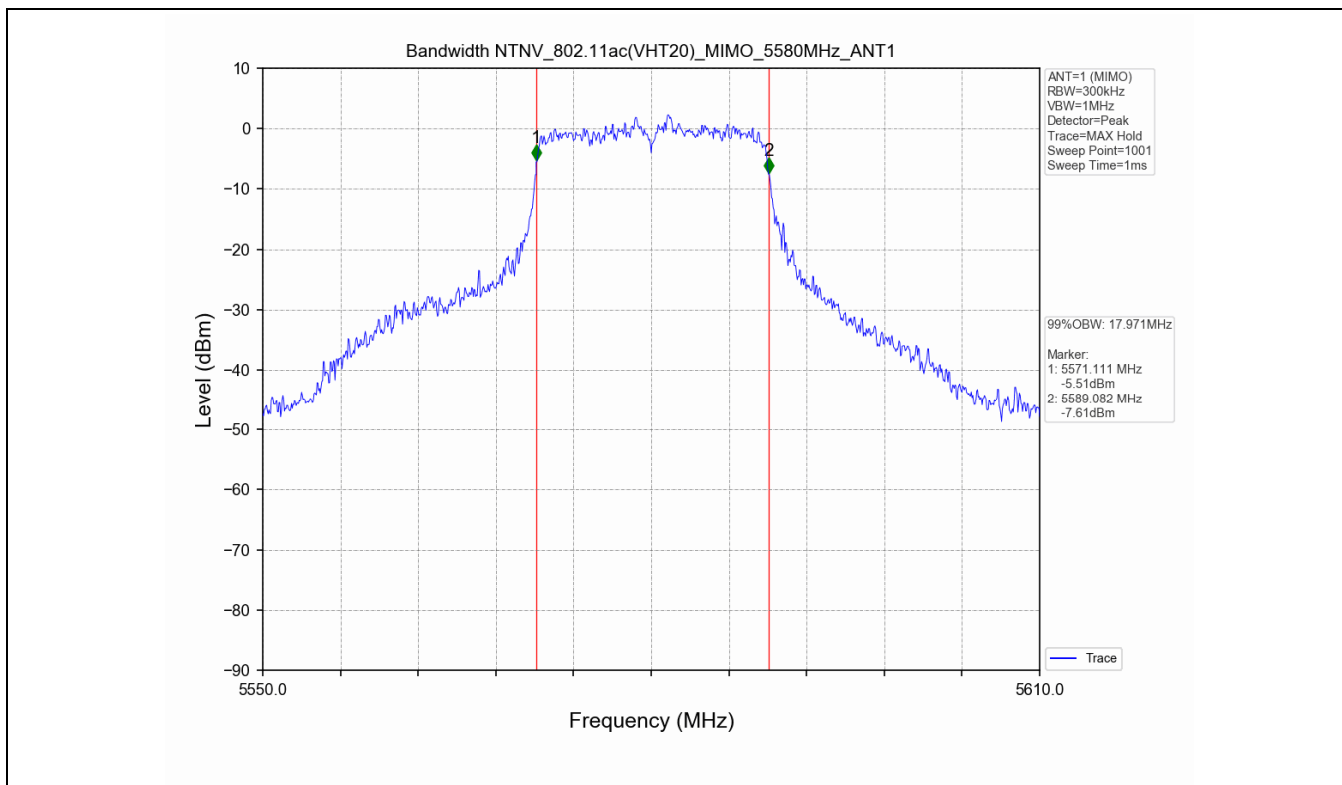
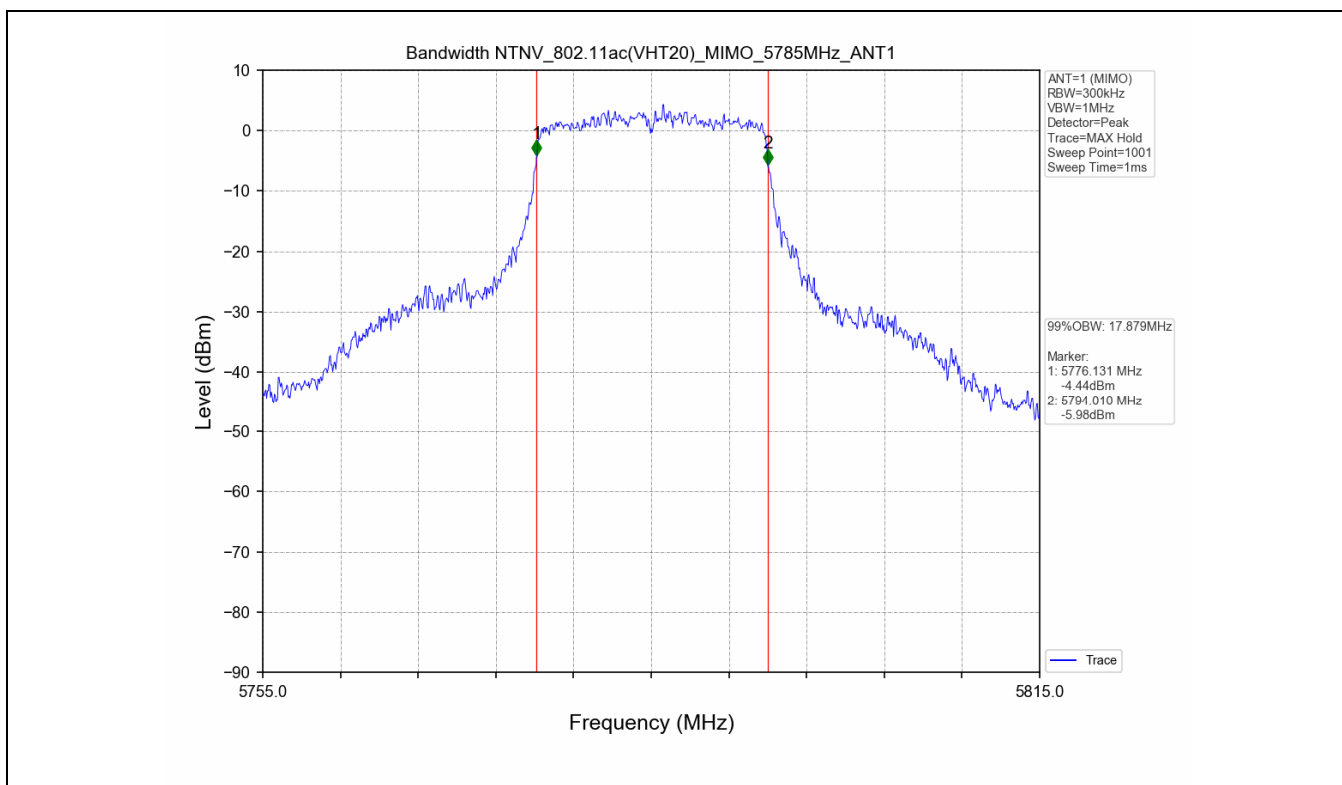
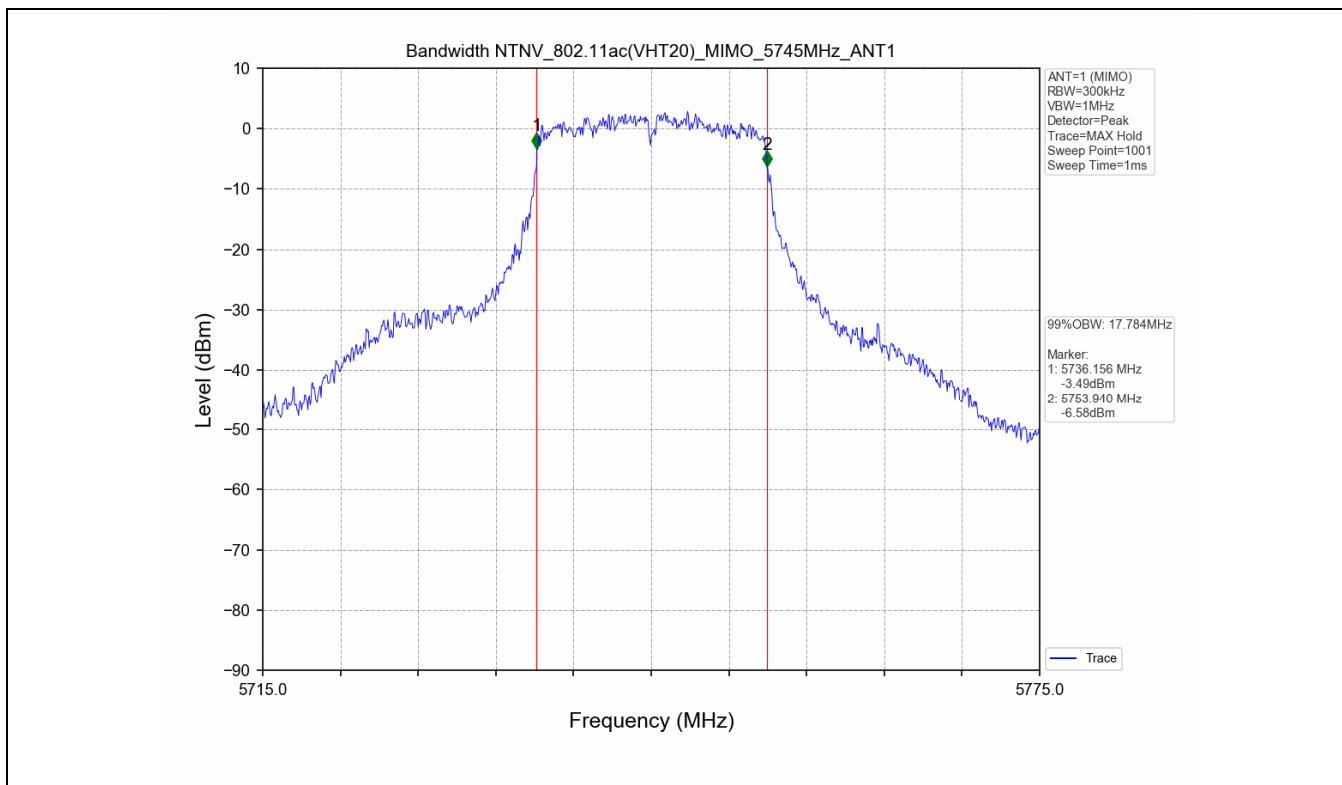
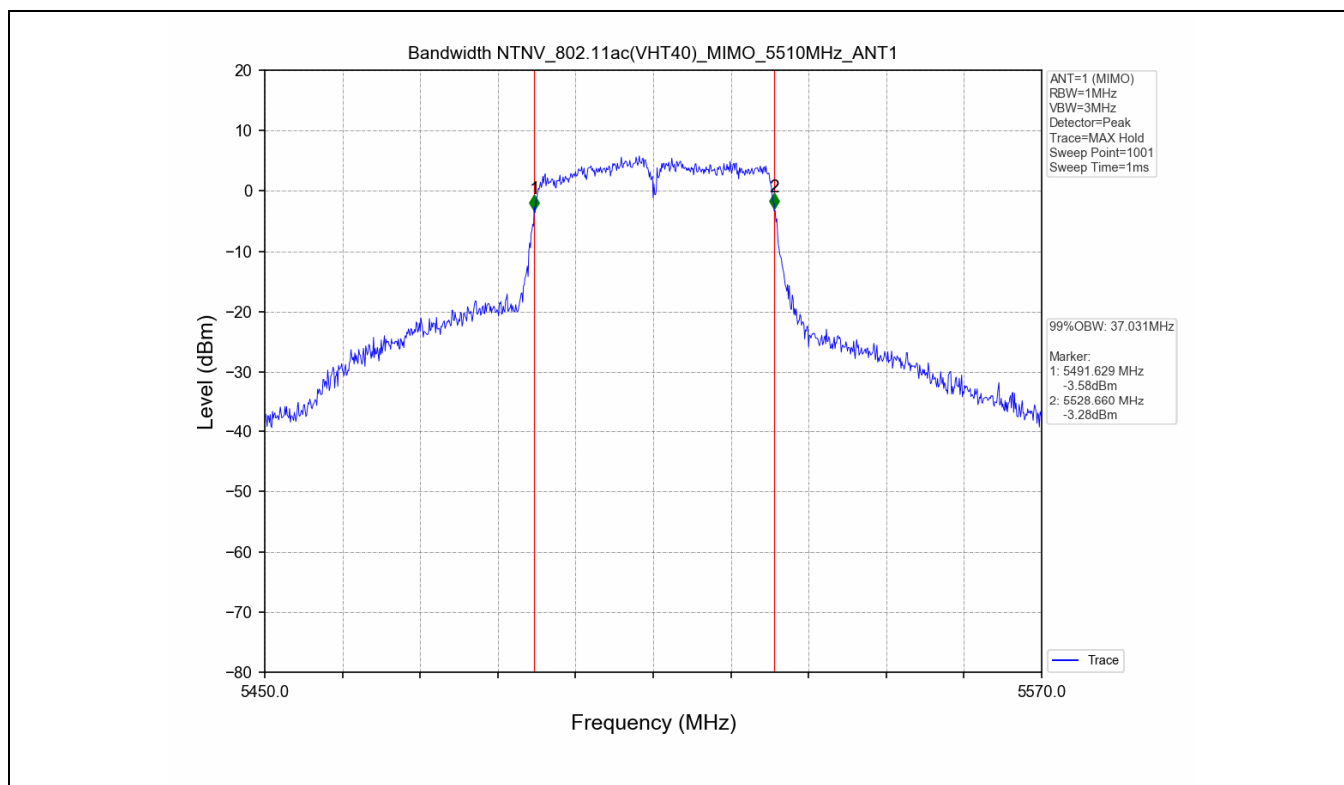
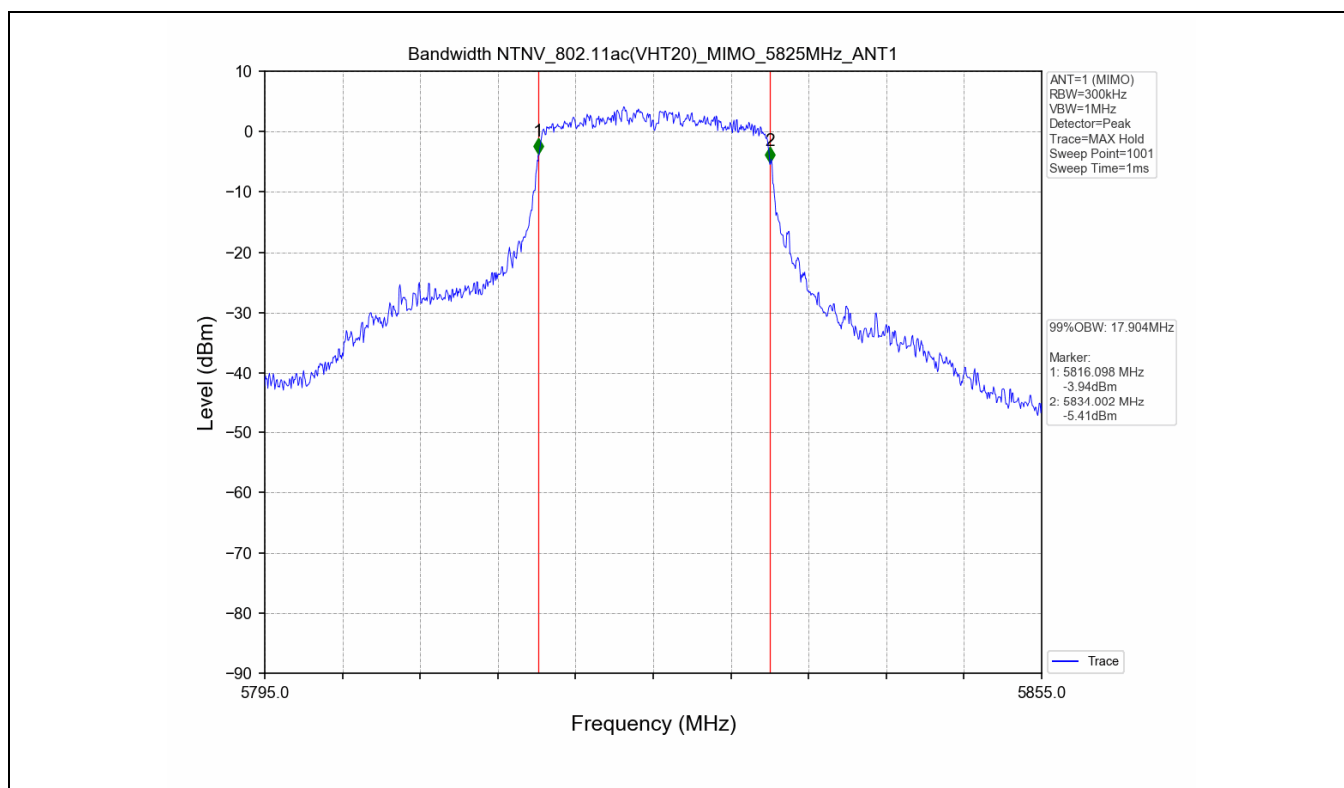


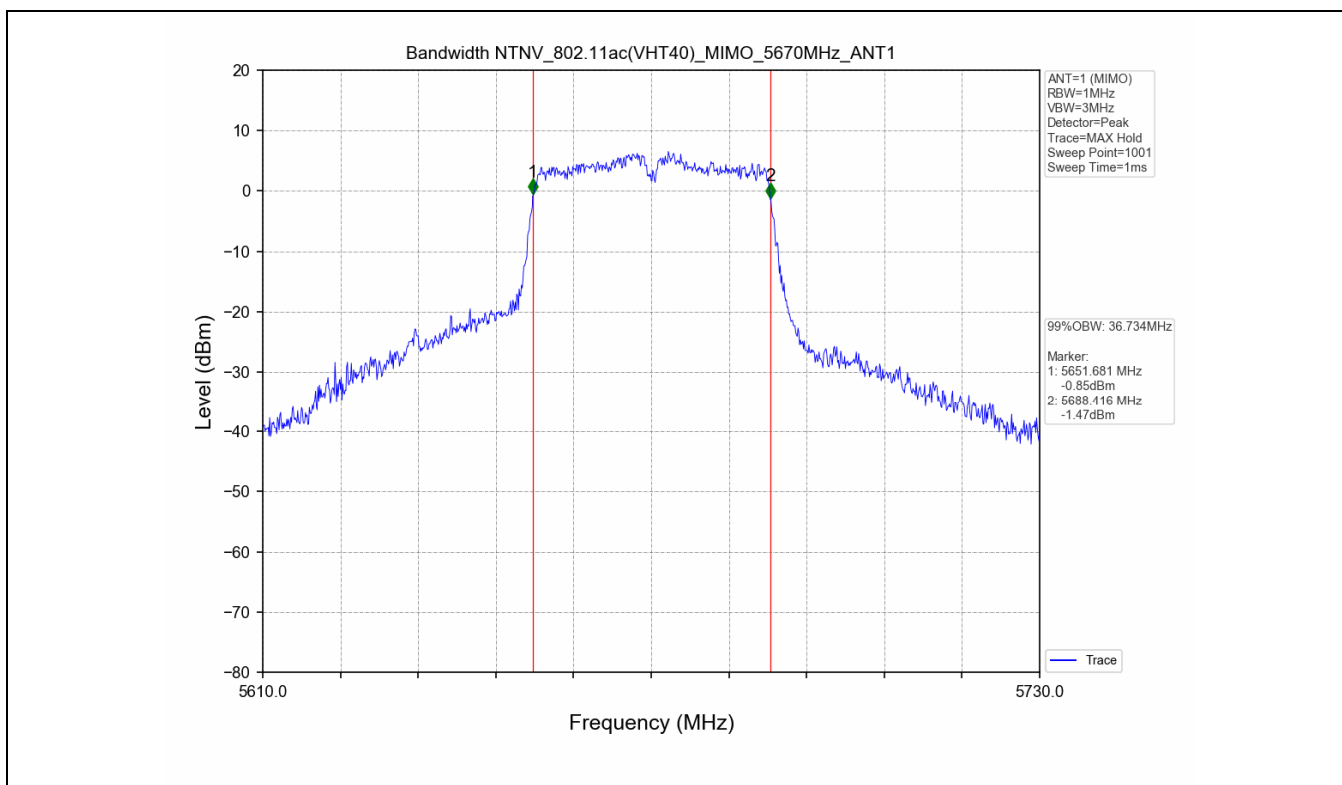
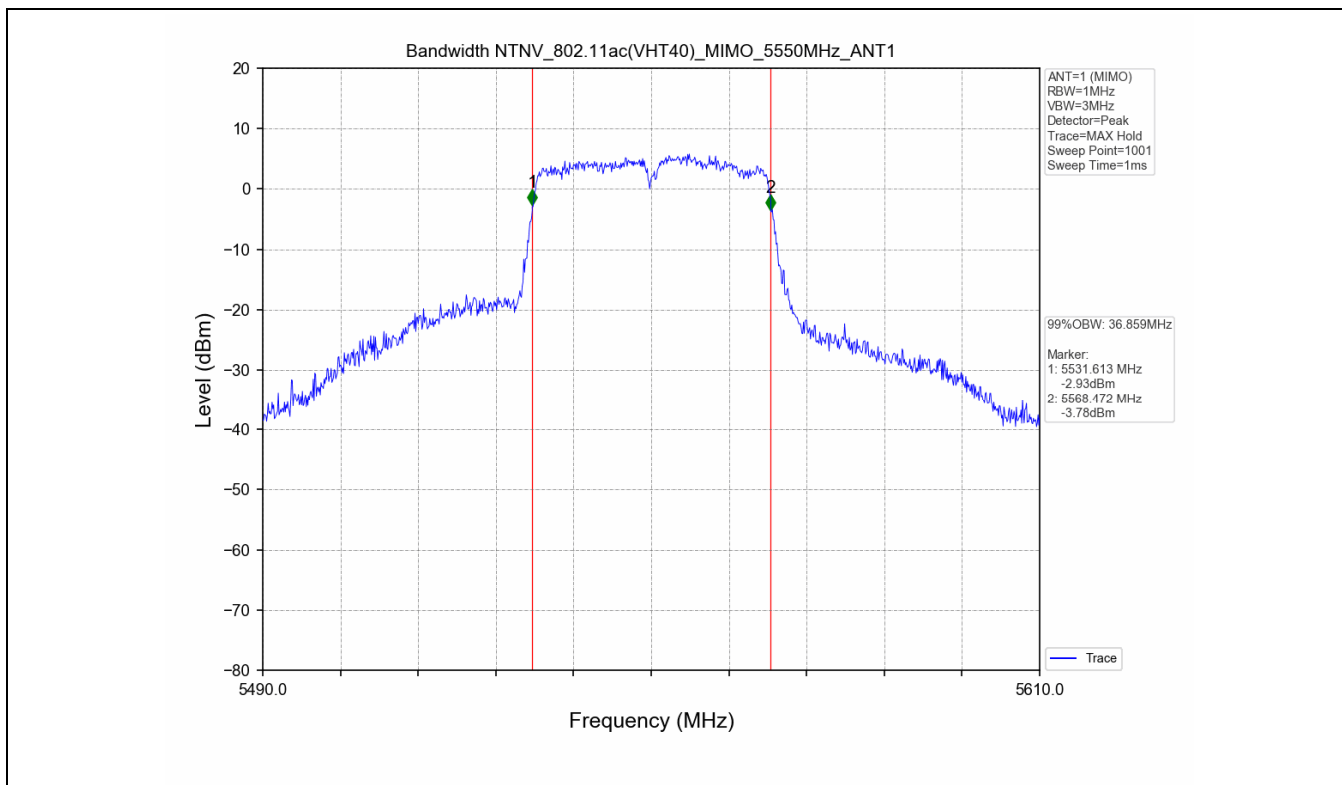


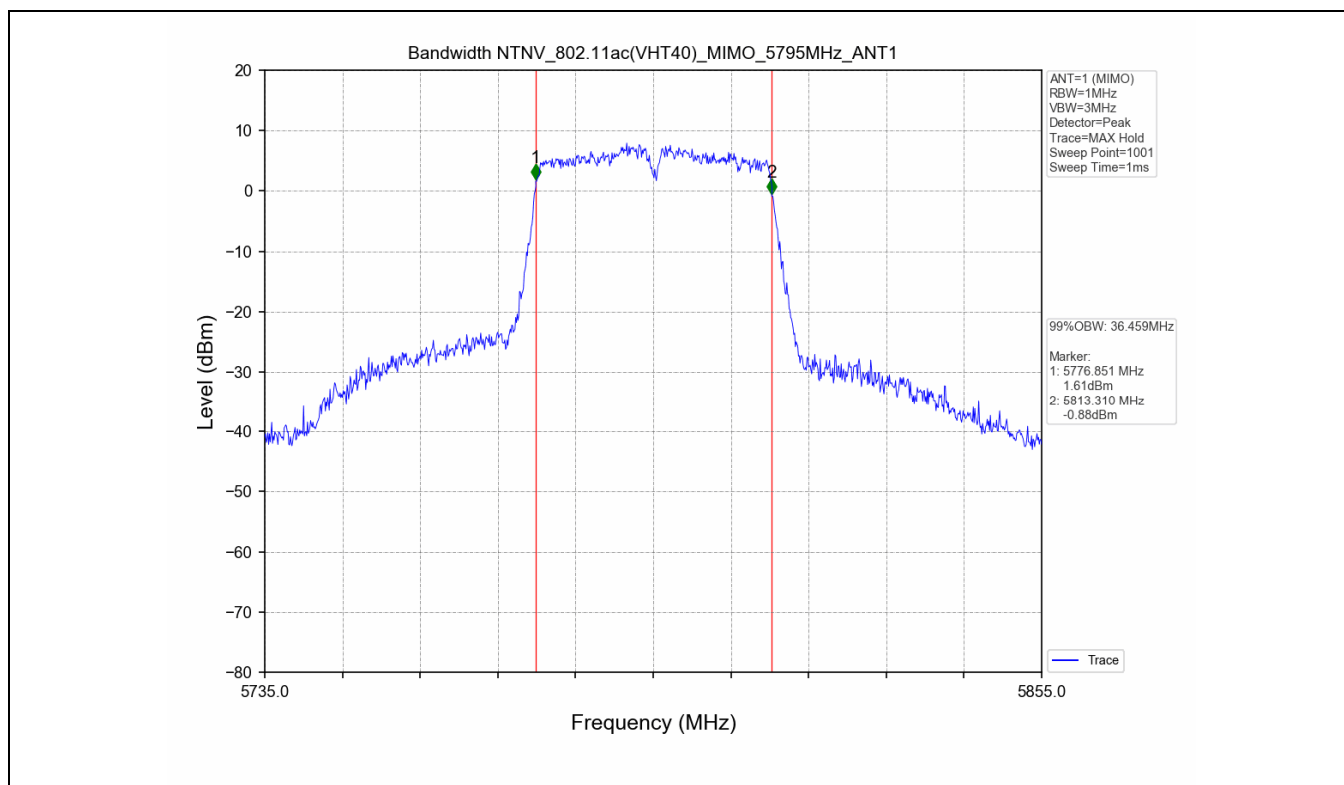
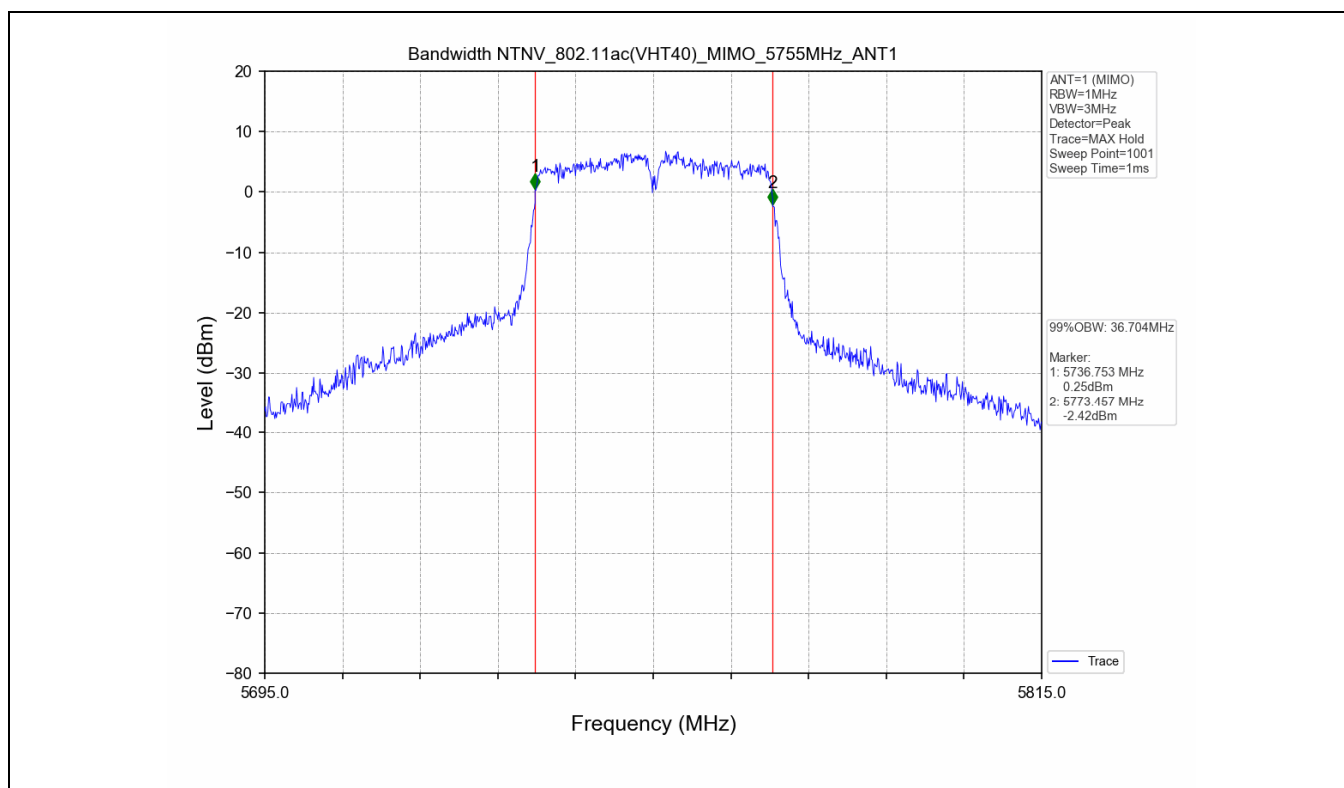


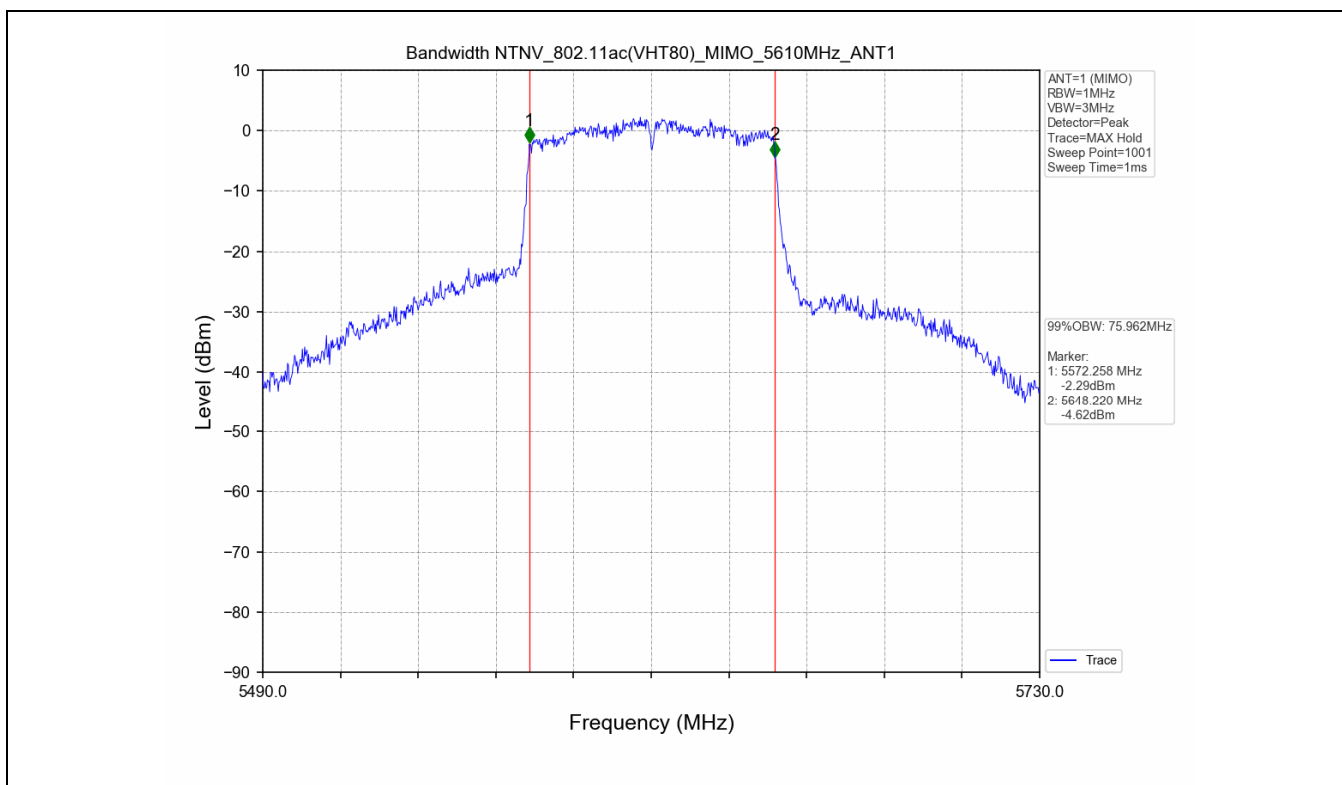
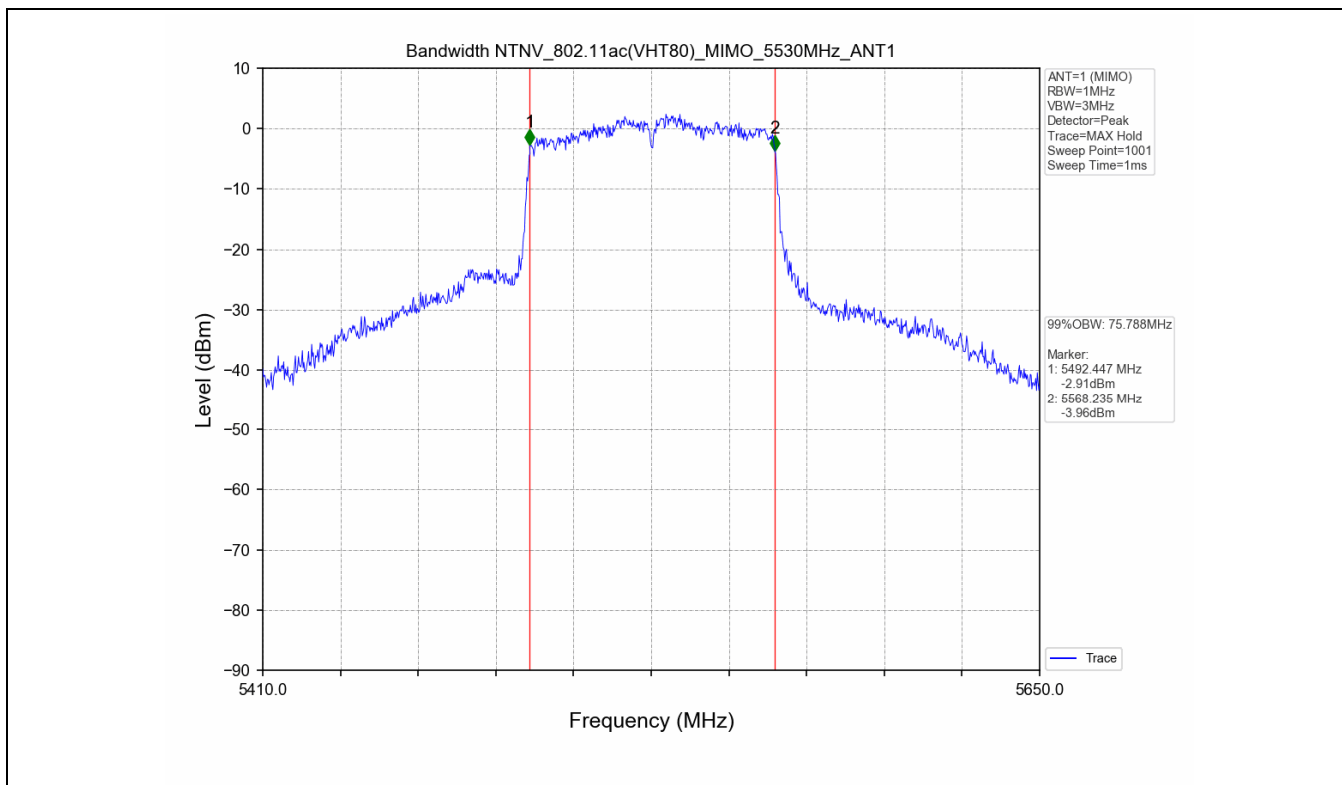


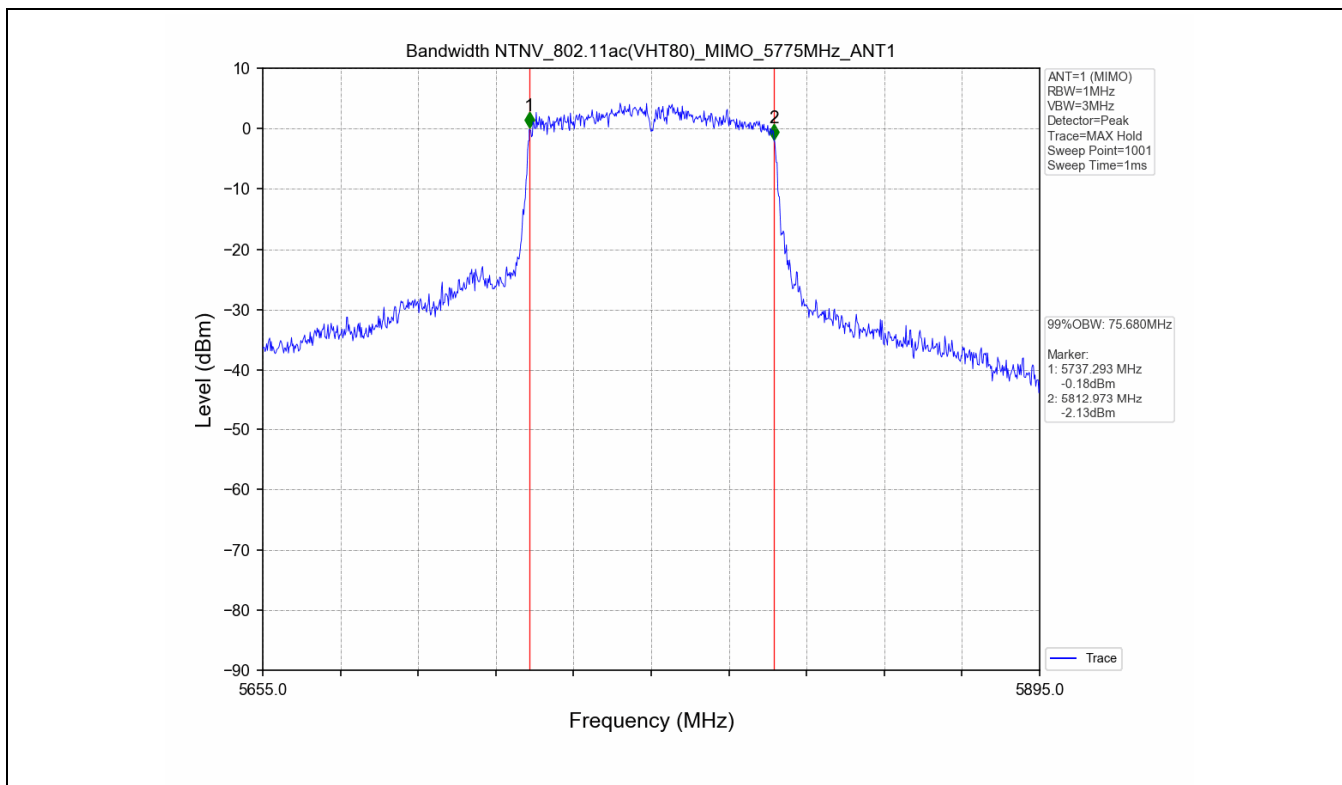
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com









3. Maximum Conducted Output Power

3.1 Test Result

Test Mode	Frequency (MHz)	Tx Type	Power Setting		Measured Output Power (dBm)			Limit (dBm)	Verdict
			Ant 1	Ant 2	Ant 1	Ant 2	Total		
802.11a	5500	SISO	11.5	9.00	11.45	9.3	/	≤23.98	PASS
	5580	SISO	11.5	9.00	11.44	9.37	/	≤23.98	PASS
	5700	SISO	11.5	9.00	11.62	9.27	/	≤23.98	PASS
	5745	SISO	11.5	9.00	11.48	9.08	/	≤30.00	PASS
	5785	SISO	11.5	9.00	11.63	9.08	/	≤30.00	PASS
	5825	SISO	11.5	9.00	11.6	9.09	/	≤30.00	PASS
802.11n(HT20)	5500	MIMO	11.5	9.00	11.58	9.25	13.58	≤23.98	PASS
	5580	MIMO	11.5	9.00	11.62	9.44	13.68	≤23.98	PASS
	5700	MIMO	11.5	9.00	11.71	9.21	13.65	≤23.98	PASS
	5745	MIMO	11.5	9.00	11.61	9.11	13.55	≤30.00	PASS
	5785	MIMO	11.5	9.00	11.69	9.08	13.59	≤30.00	PASS
	5825	MIMO	11.5	9.00	11.75	9.12	13.64	≤30.00	PASS
802.11n(HT40)	5510	MIMO	9.5	9.5	9.94	9.81	12.89	≤23.98	PASS
	5550	MIMO	9.5	9.5	9.85	9.79	12.83	≤23.98	PASS
	5670	MIMO	9.5	9.5	9.88	9.95	12.93	≤23.98	PASS
	5755	MIMO	9.5	9.5	9.91	9.68	12.81	≤30.00	PASS
	5795	MIMO	9.5	9.5	9.86	9.73	12.81	≤30.00	PASS
802.11ac(VHT20)	5500	MIMO	11.5	9.00	9.68	9.33	12.52	≤23.98	PASS
	5580	MIMO	11.5	9.00	9.73	9.42	12.59	≤23.98	PASS
	5700	MIMO	11.5	9.00	9.68	9.24	12.48	≤23.98	PASS
	5745	MIMO	11.5	9.00	11.45	9.08	13.44	≤30.00	PASS
	5785	MIMO	11.5	9.00	11.63	9.22	13.60	≤30.00	PASS
	5825	MIMO	11.5	9.00	11.52	9.11	13.49	≤30.00	PASS
802.11ac(VHT40)	5510	MIMO	9.5	9.5	9.79	9.73	12.77	≤23.98	PASS
	5550	MIMO	9.5	9.5	9.7	9.85	12.79	≤23.98	PASS
	5670	MIMO	9.5	9.5	9.75	9.64	12.71	≤23.98	PASS
	5755	MIMO	9.5	9.5	9.77	9.59	12.69	≤30.00	PASS
	5795	MIMO	9.5	9.5	9.77	9.64	12.72	≤30.00	PASS
802.11ac(VHT80)	5530	MIMO	9.5	9.5	9.75	9.49	12.63	≤23.98	PASS
	5610	MIMO	9.5	9.5	9.71	9.67	12.70	≤23.98	PASS
	5775	MIMO	9.5	9.5	9.84	9.47	12.67	≤30.00	PASS

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	5500	SISO	1.04	-0.10	/	≤11	PASS
	5580	SISO	1.11	0.69	/	≤11	PASS
	5700	SISO	0.17	1.19	/	≤11	PASS
802.11n(HT20)	5500	MIMO	-0.10	-0.02	2.66	≤10.46	PASS
	5580	MIMO	0.78	0.07	3.24	≤10.46	PASS
	5700	MIMO	1.27	0.47	3.90	≤10.46	PASS
802.11n(HT40)	5510	MIMO	-3.80	-1.01	0.77	≤10.46	PASS
	5550	MIMO	-4.16	-0.97	0.55	≤10.46	PASS
	5670	MIMO	-3.15	-0.70	1.10	≤10.46	PASS
802.11ac(VHT20)	5500	MIMO	0.29	-1.58	2.29	≤10.46	PASS
	5580	MIMO	-0.11	-1.10	2.27	≤10.46	PASS
	5700	MIMO	-0.24	-0.41	2.39	≤10.46	PASS
802.11ac(VHT40)	5510	MIMO	-1.71	-4.46	-0.10	≤10.46	PASS
	5550	MIMO	-1.63	-4.63	-0.06	≤10.46	PASS
	5670	MIMO	-2.84	-4.43	-0.62	≤10.46	PASS
802.11ac(VHT80)	5530	MIMO	-7.63	-5.00	-3.31	≤10.46	PASS
	5610	MIMO	-7.51	-5.59	-3.74	≤10.46	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	-2.77	-2.20	/	≤30	PASS
	5785	SISO	-2.67	-1.59	/	≤30	PASS
	5825	SISO	-1.41	-0.51	/	≤30	PASS
802.11n(HT20)	5745	MIMO	-1.95	-2.74	0.60	≤29.46	PASS
	5785	MIMO	-1.13	-1.50	1.70	≤29.46	PASS
	5825	MIMO	0.49	-0.65	2.84	≤29.46	PASS
802.11n(HT40)	5755	MIMO	-6.41	-4.07	-2.08	≤29.46	PASS
	5795	MIMO	-3.73	-2.60	-0.17	≤29.46	PASS
802.11ac(VHT20)	5745	MIMO	-3.70	-3.83	-0.92	≤29.46	PASS
	5785	MIMO	-3.26	-2.75	-0.15	≤29.46	PASS
	5825	MIMO	-1.54	-1.86	1.15	≤29.46	PASS
802.11ac(VHT40)	5755	MIMO	-5.97	-6.63	-3.37	≤29.46	PASS
	5795	MIMO	-5.04	-5.20	-2.37	≤29.46	PASS
802.11ac(VHT80)	5775	MIMO	-9.69	-9.64	-6.83	≤29.46	PASS



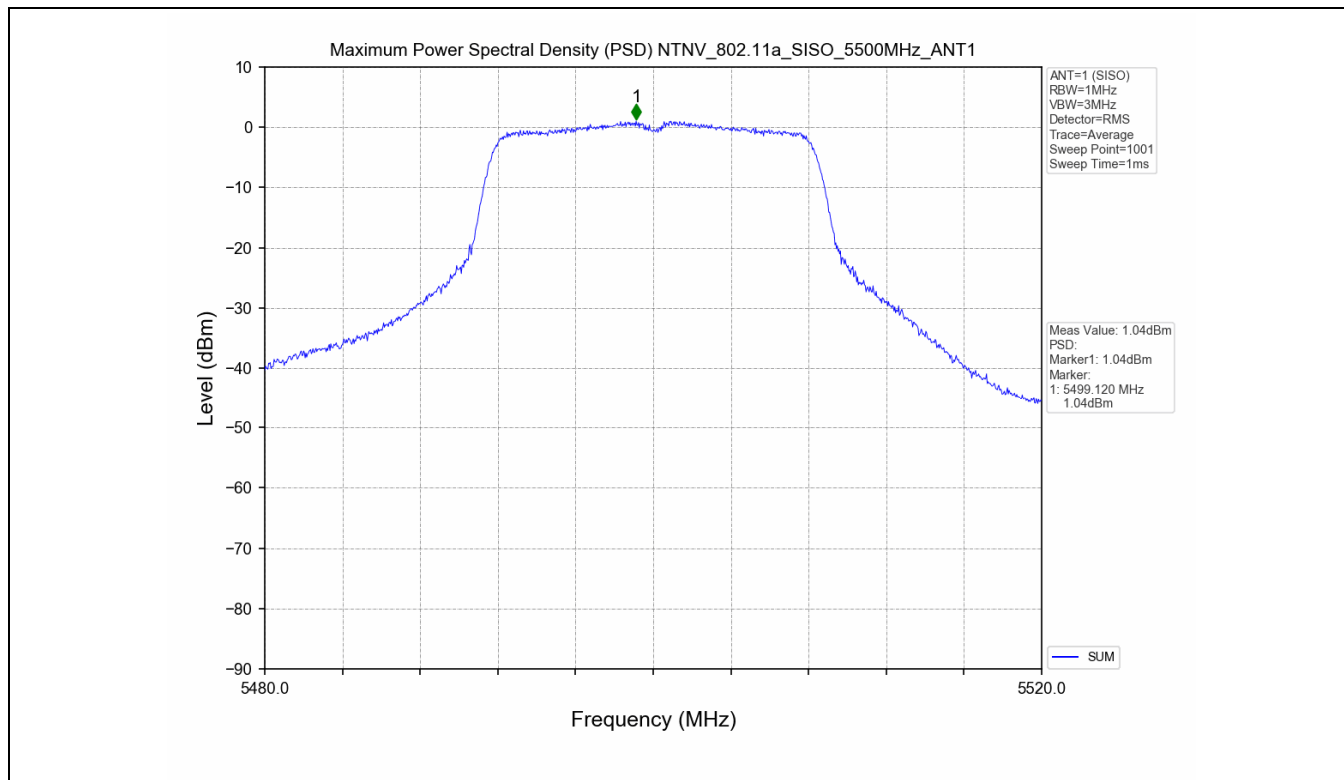
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

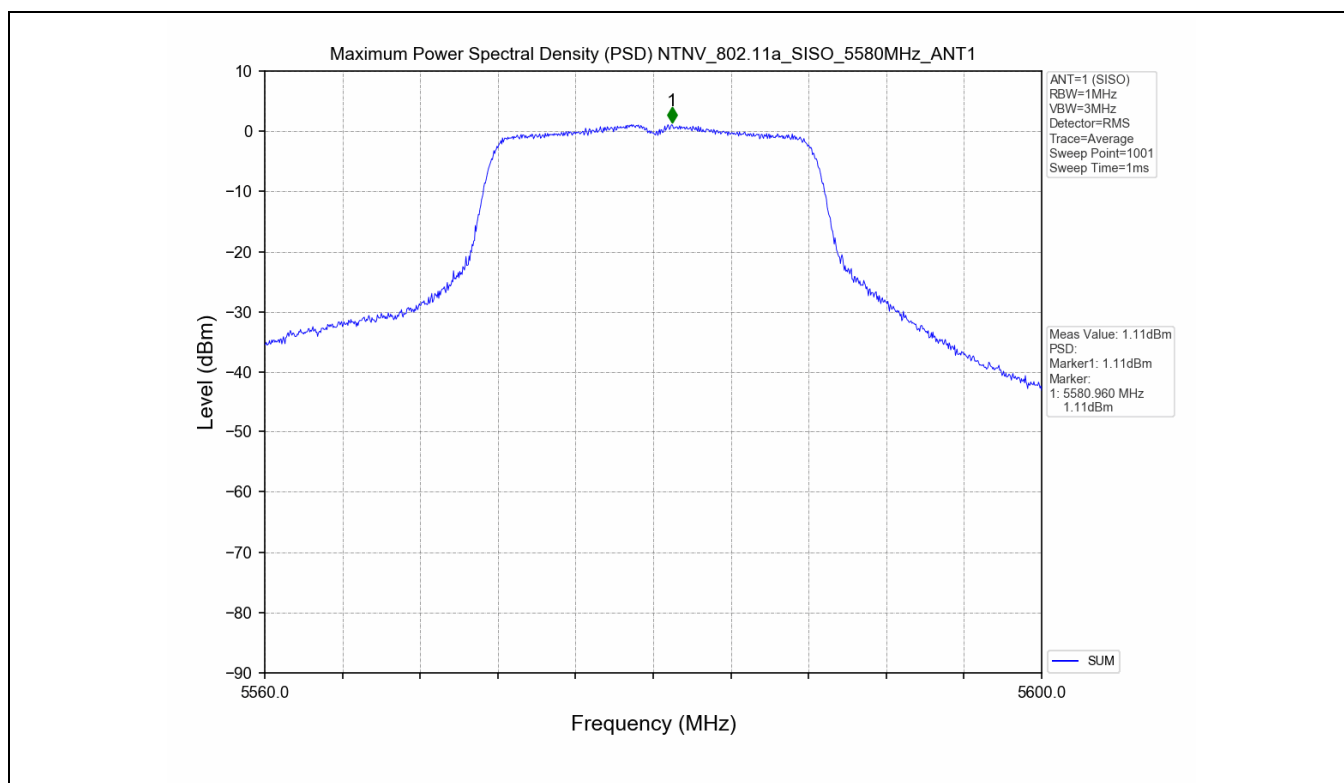
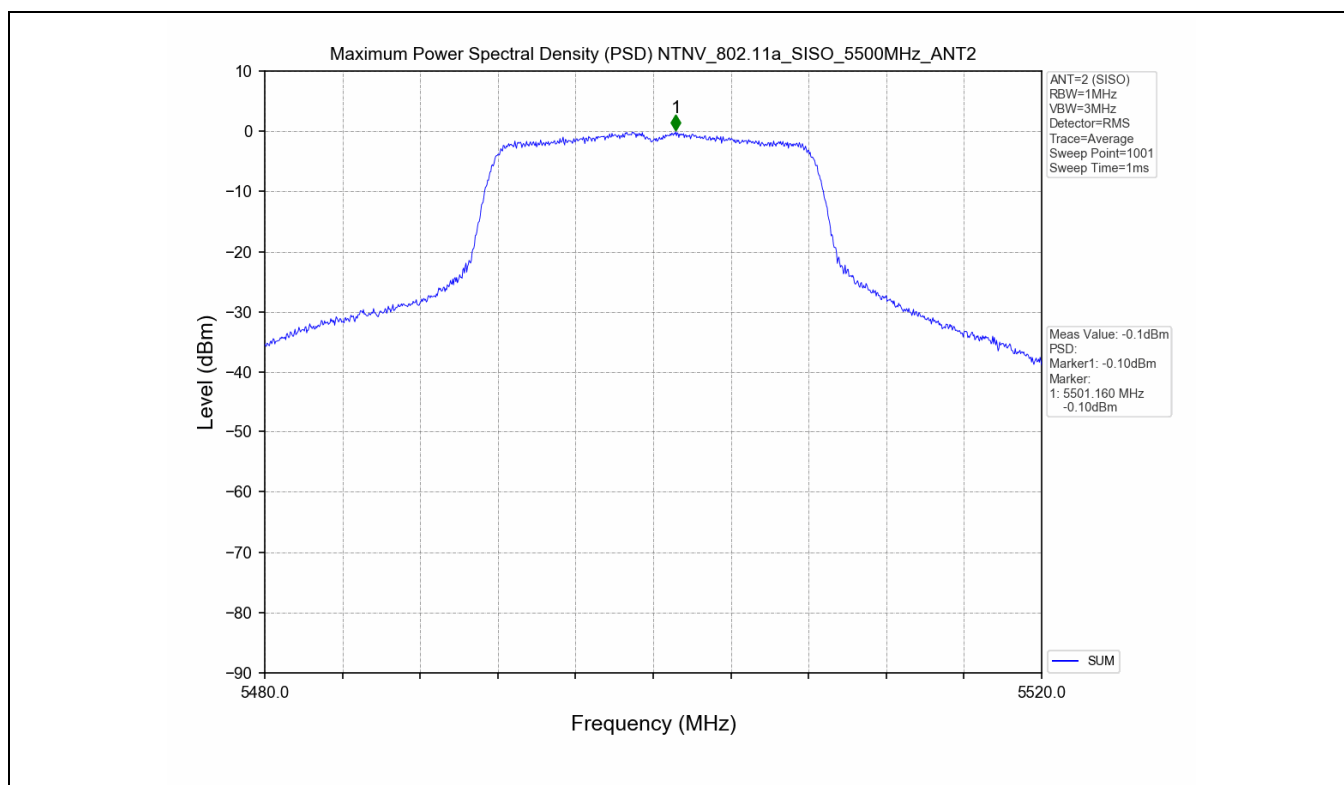
Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 83071443, or email: CN.Doccheck@sgs.com

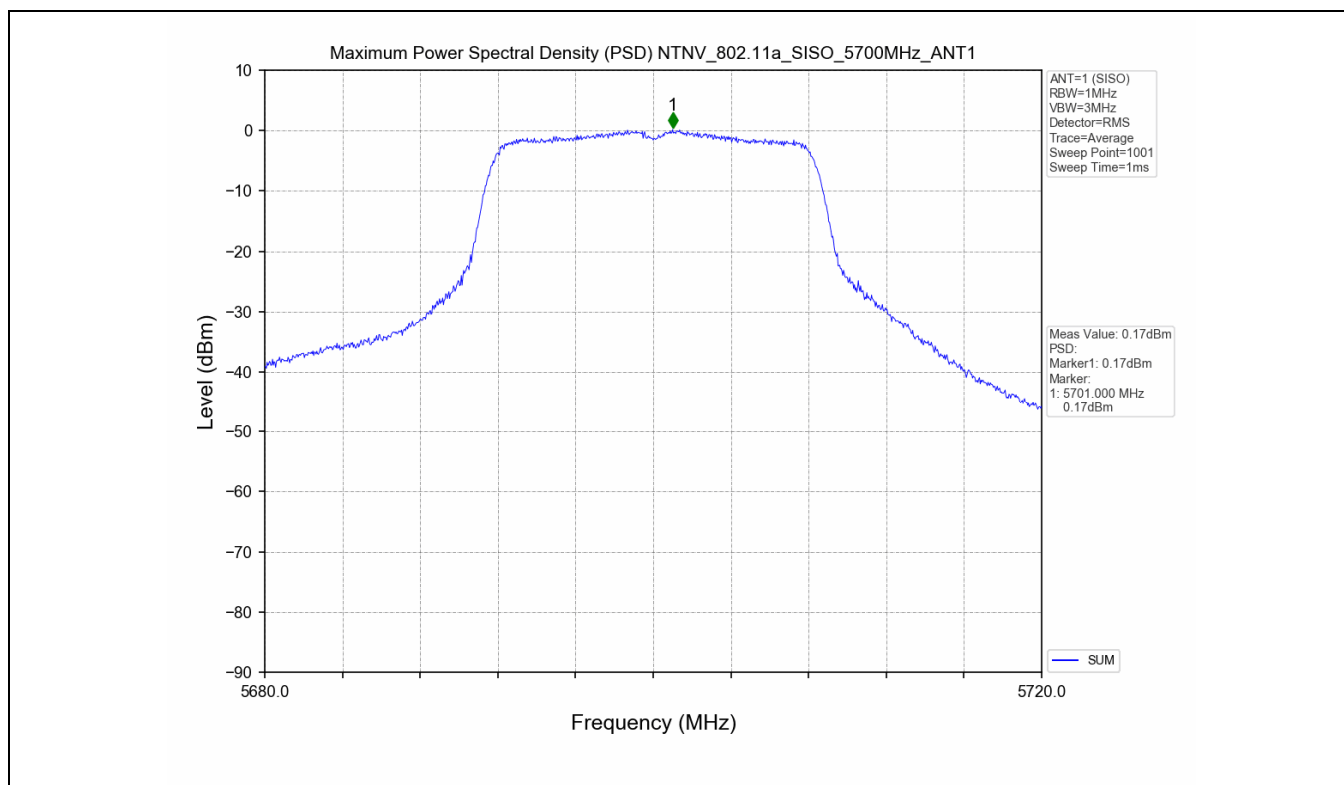
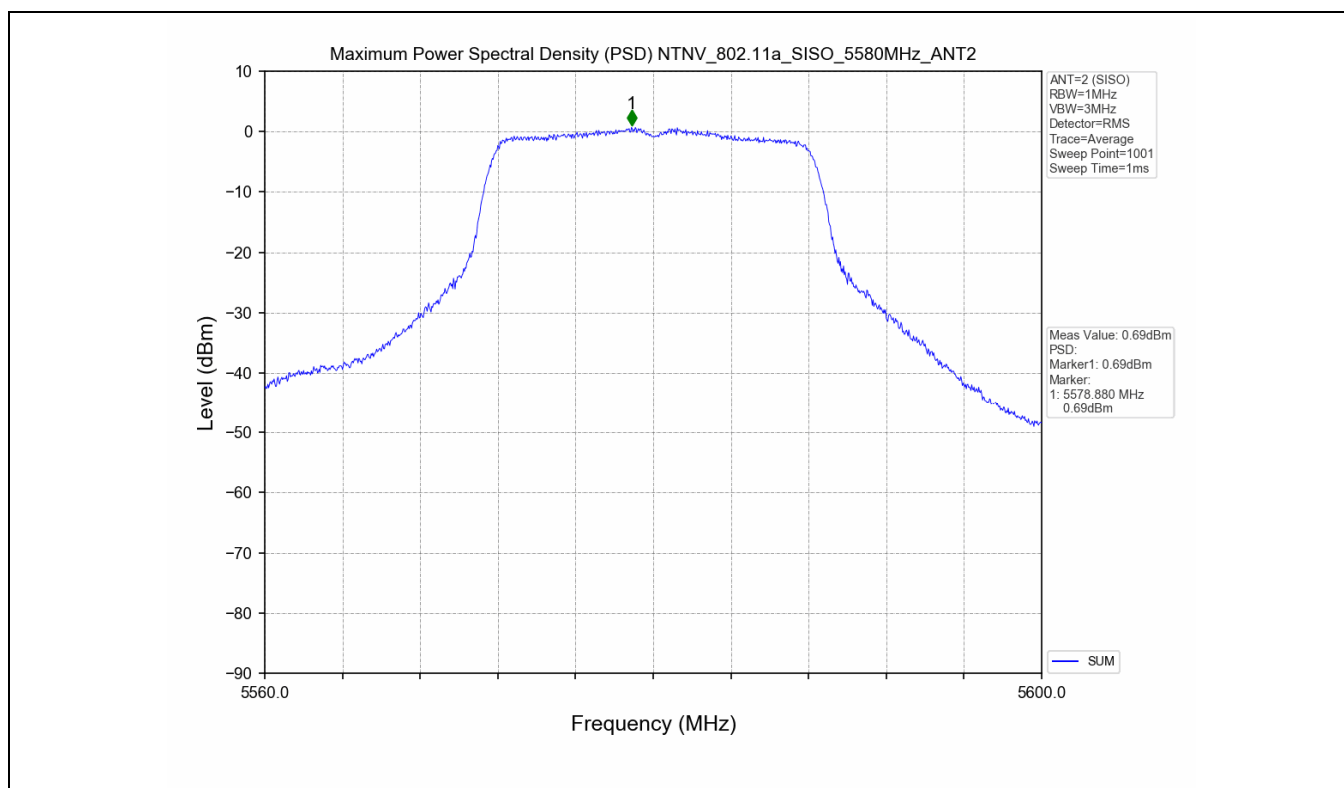
SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch, CSTC Standards Technical Services Co., Ltd. Laboratory.

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

4.2 Test Graph





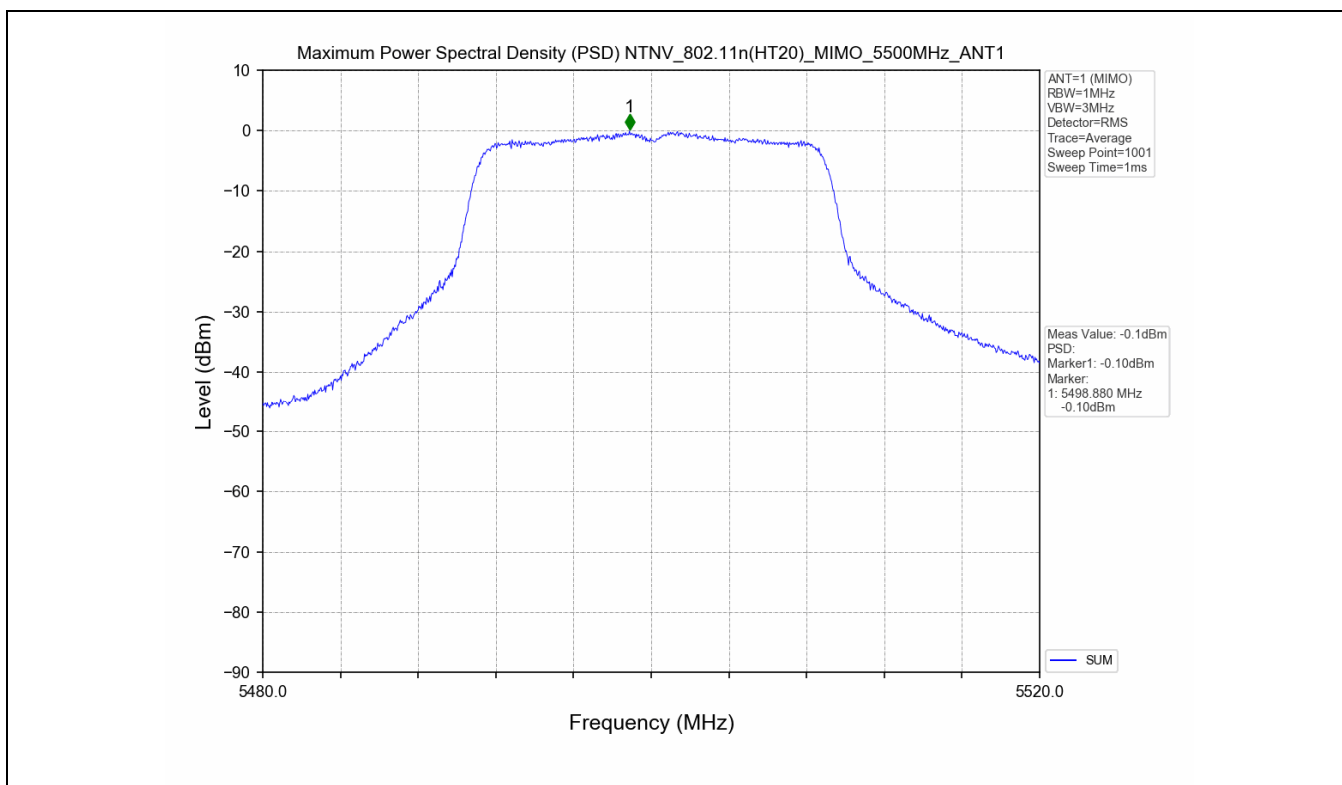
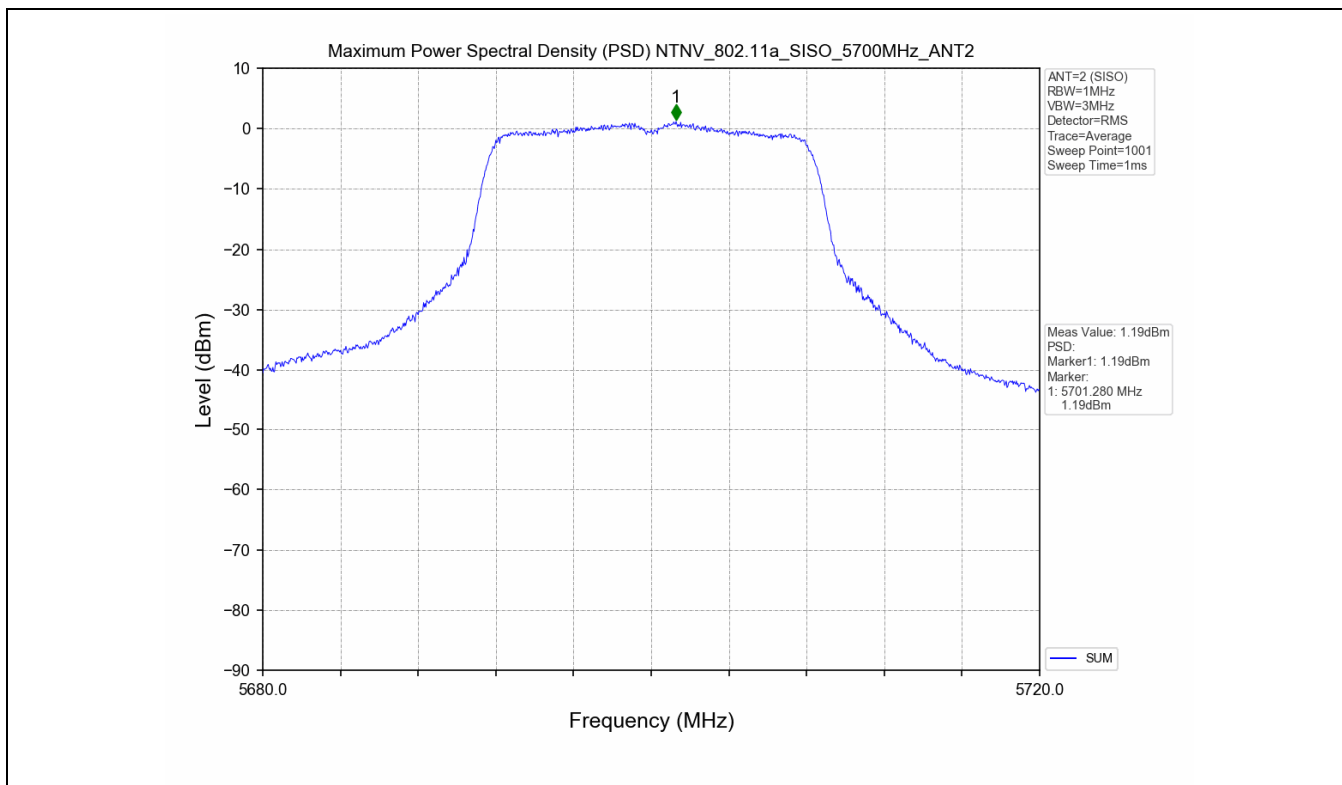


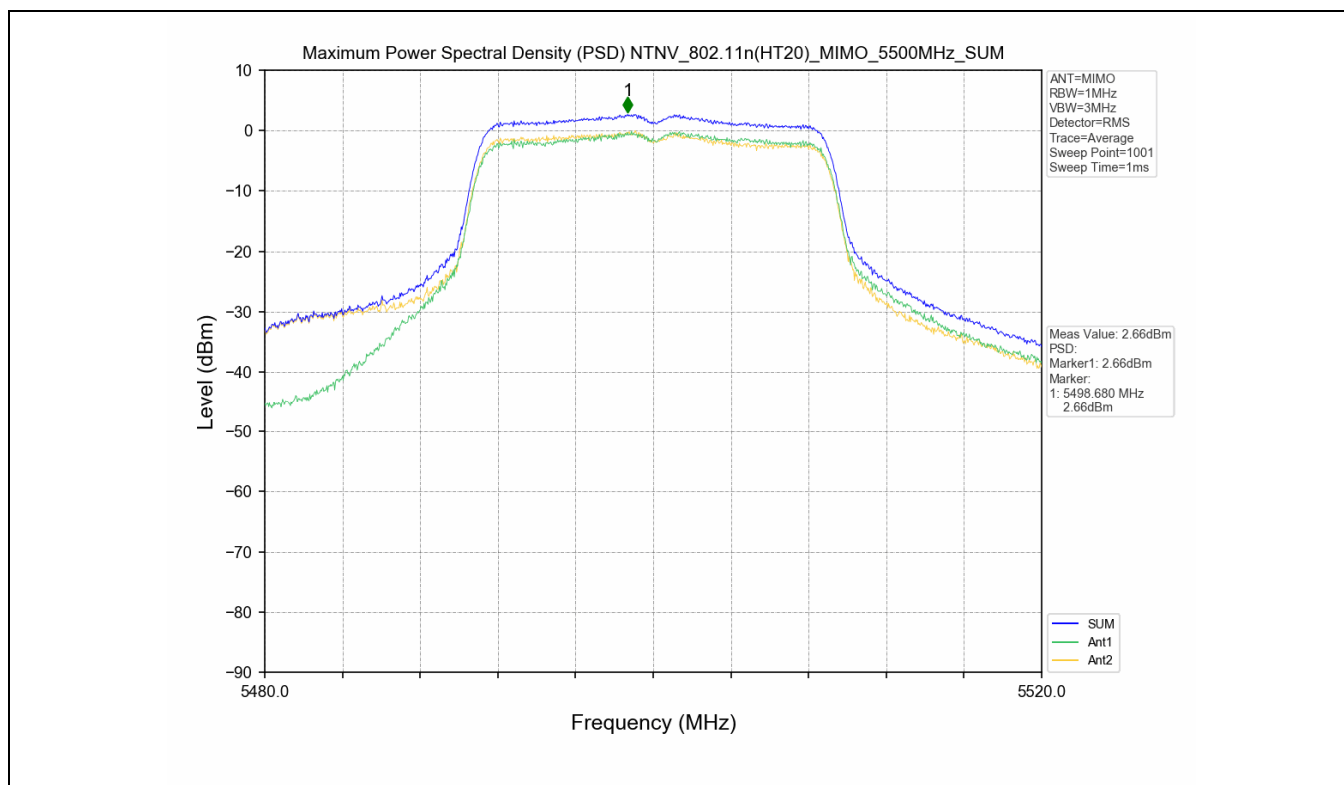
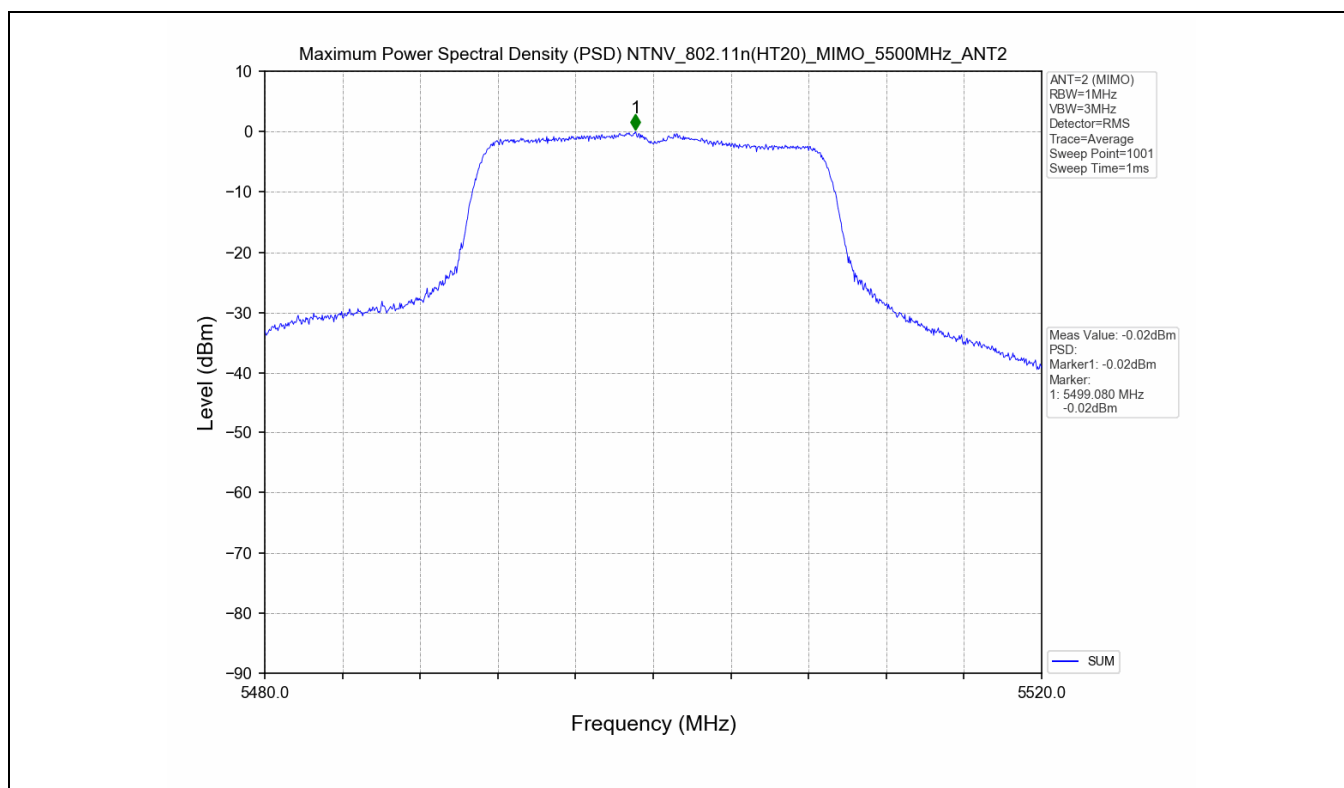
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

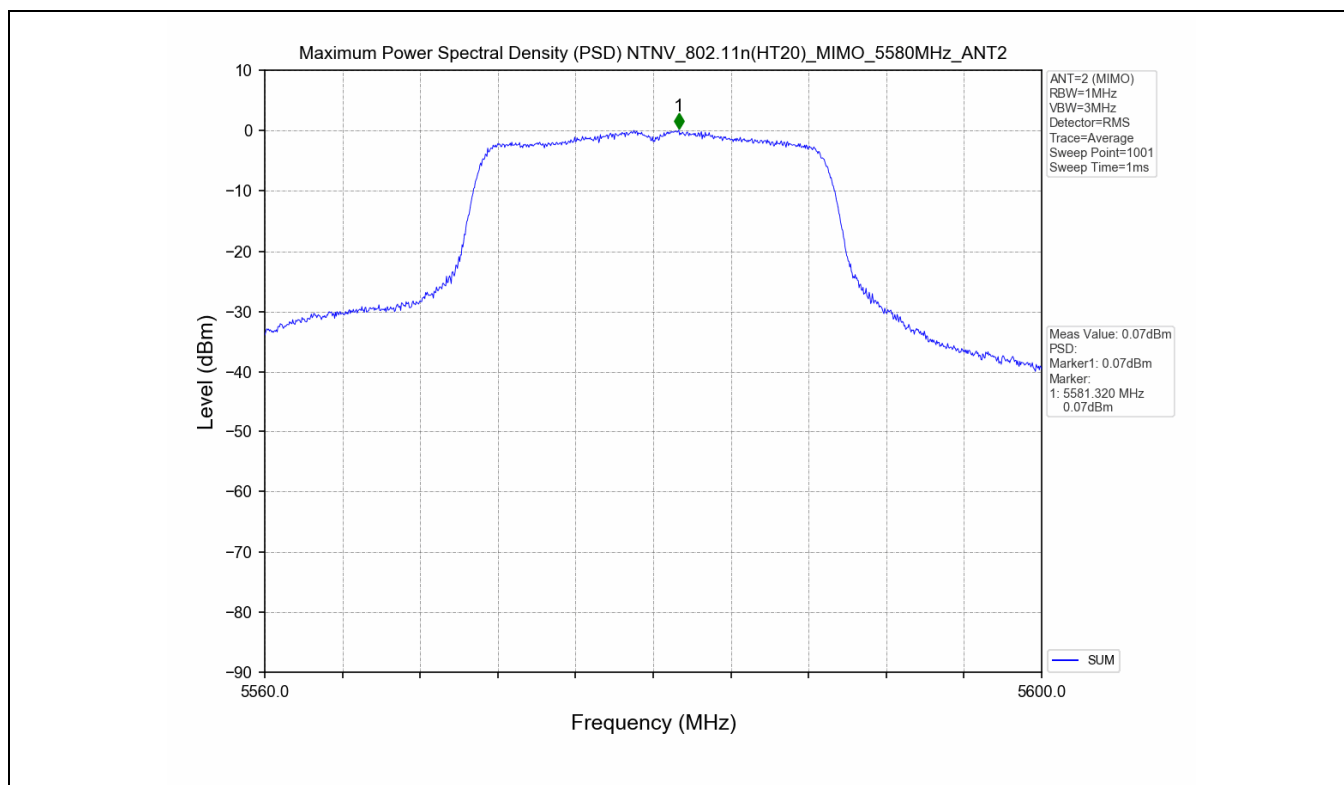
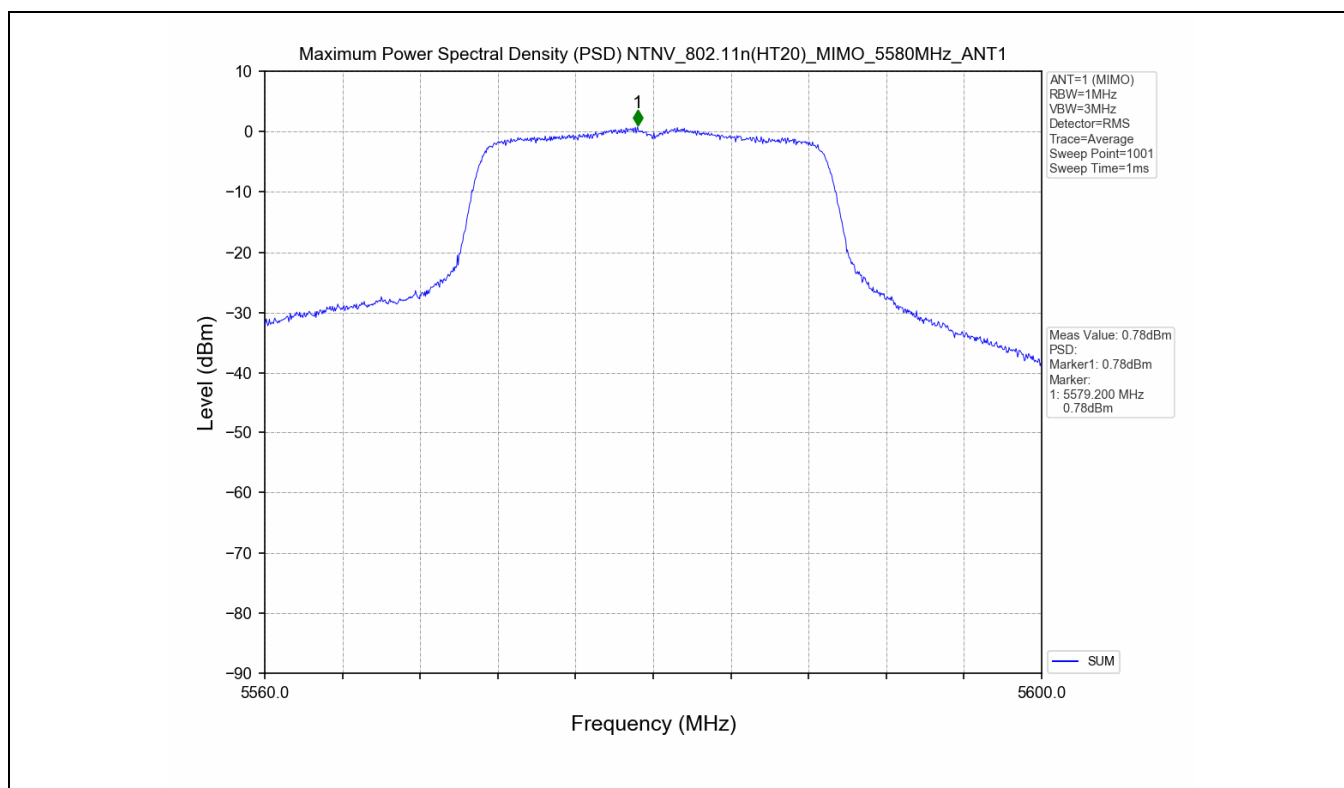
Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

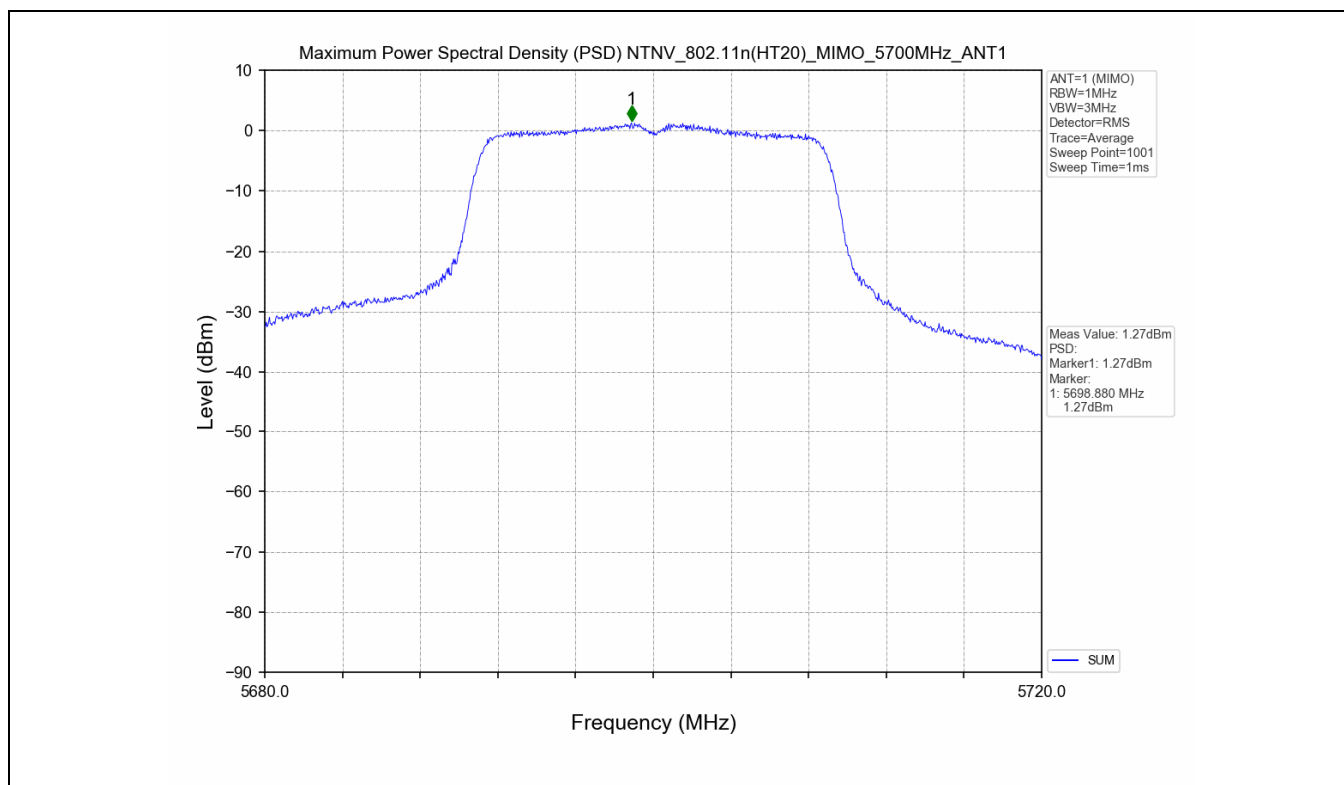
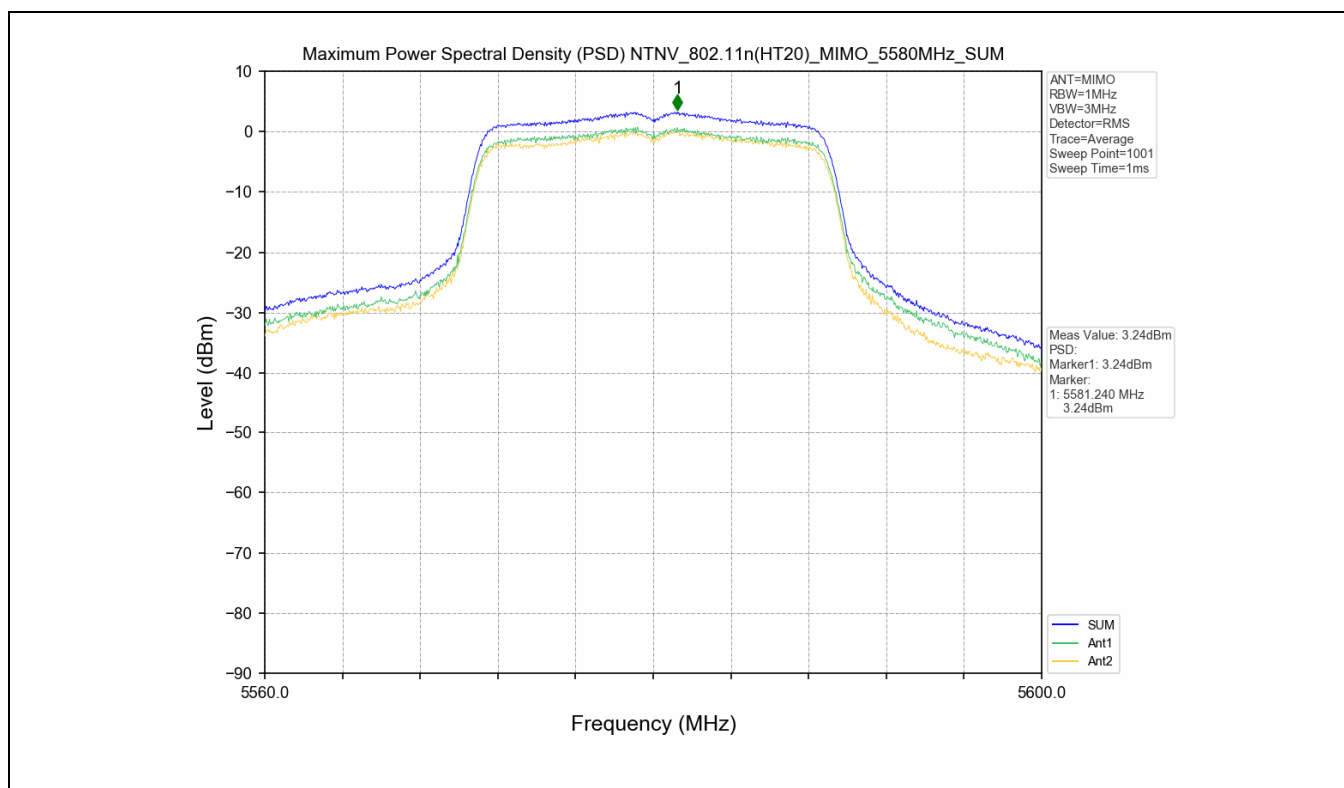
SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch, China, EMC Laboratory.

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







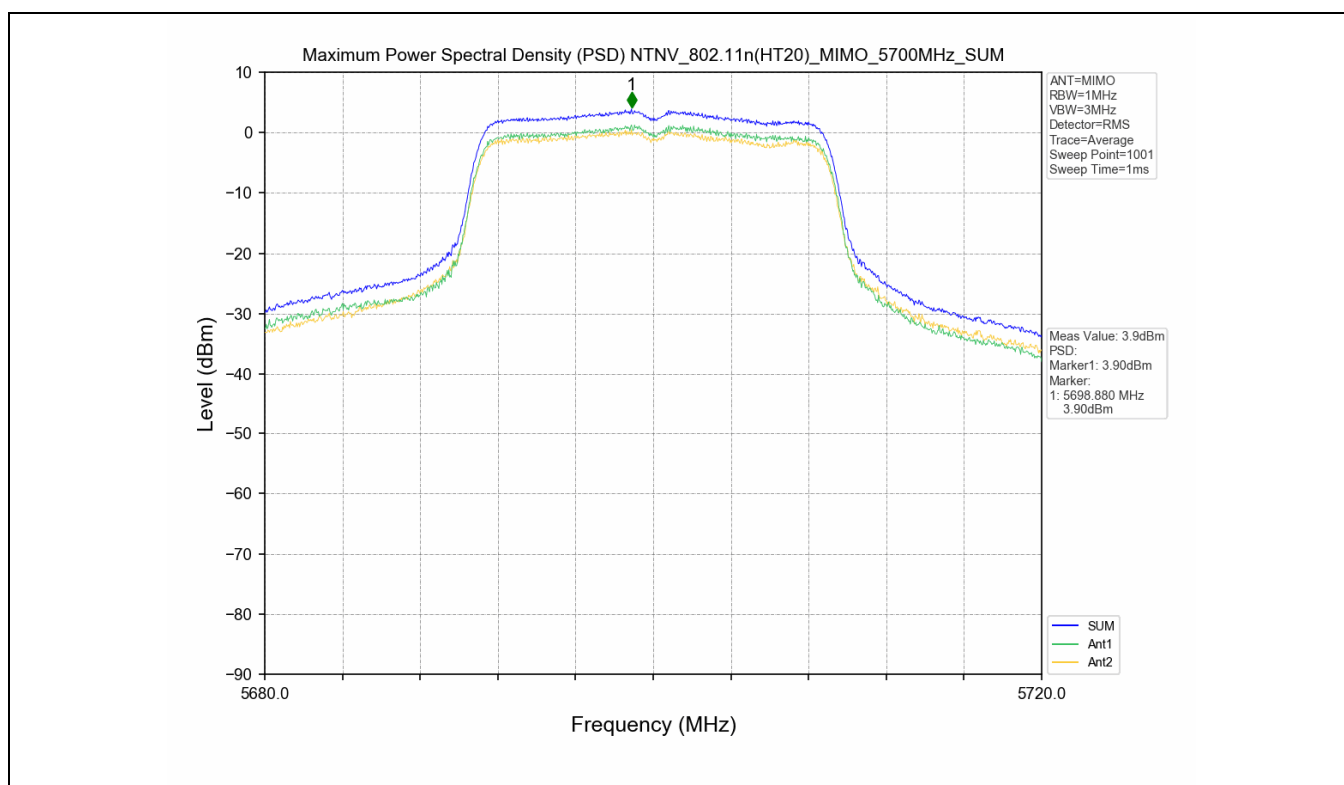
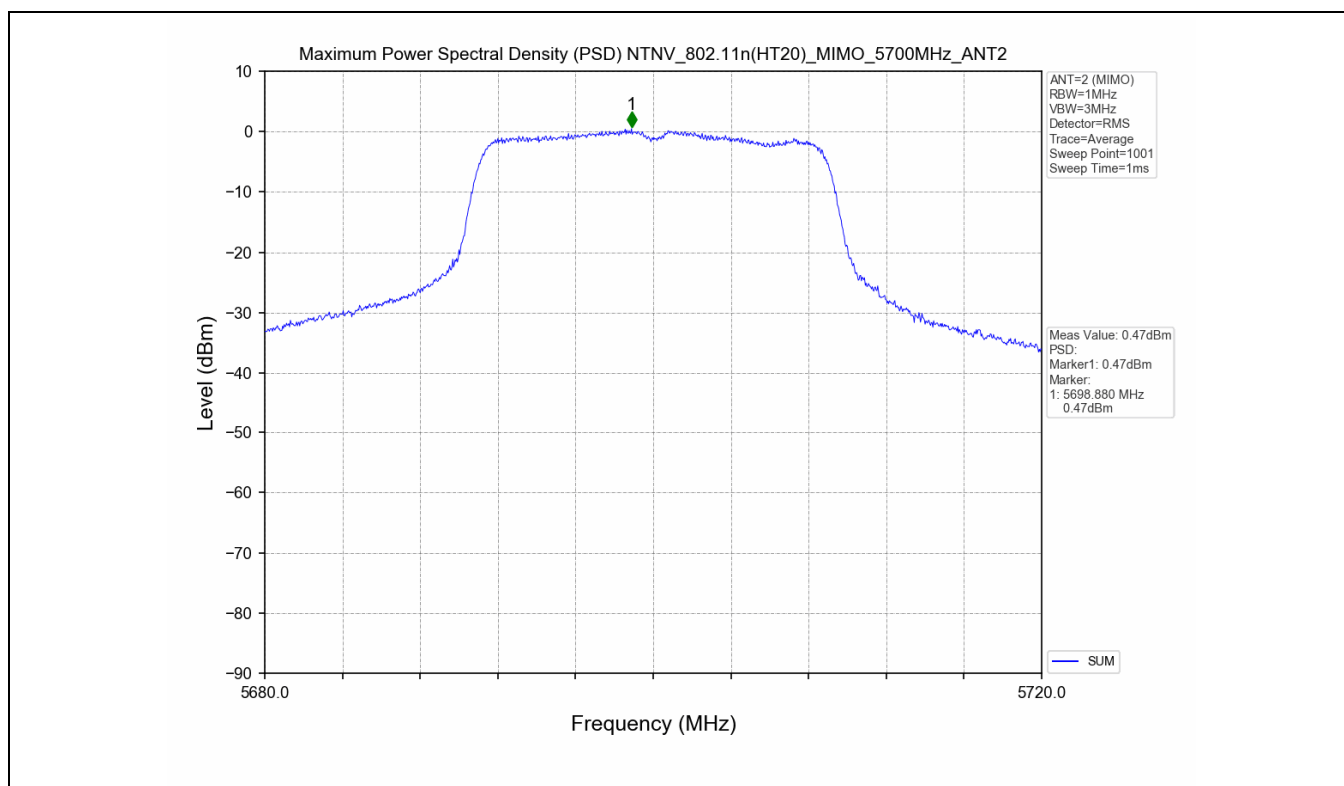


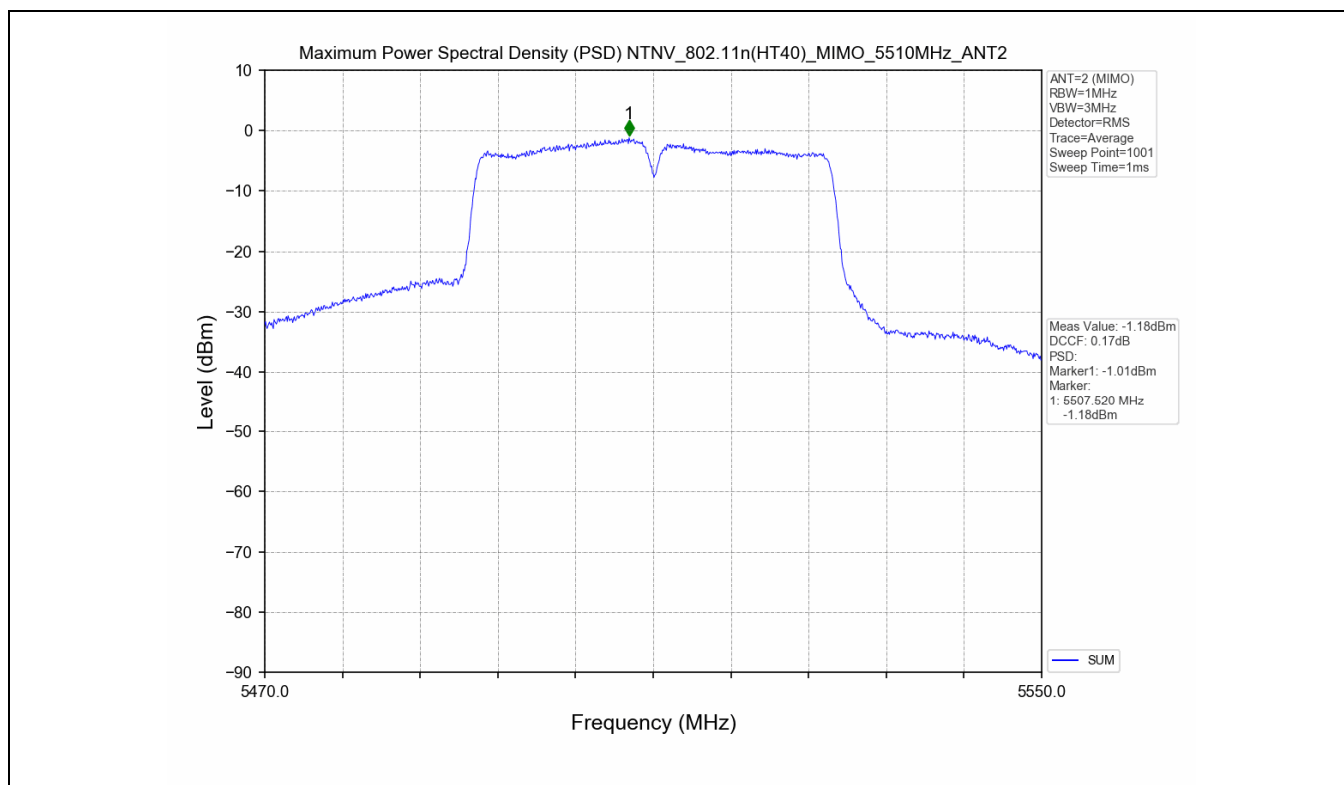
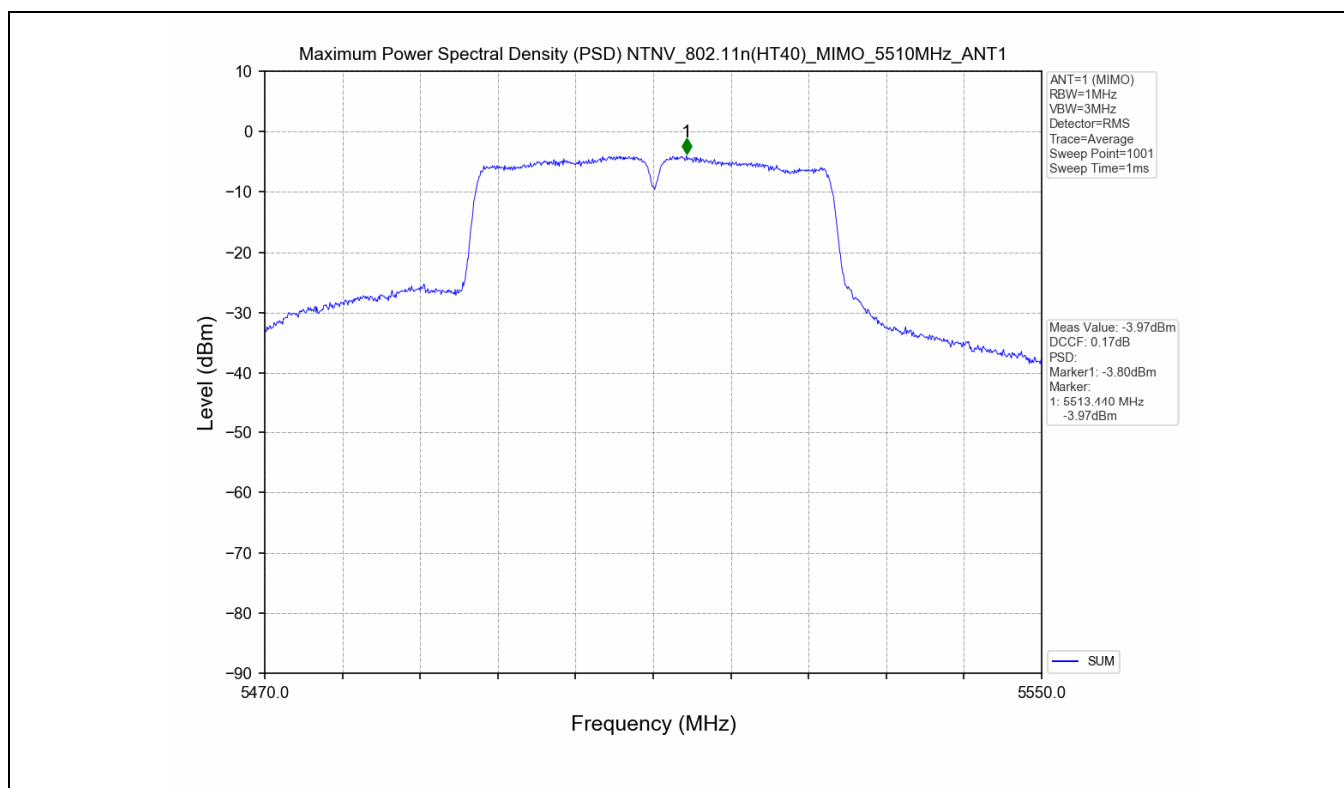
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

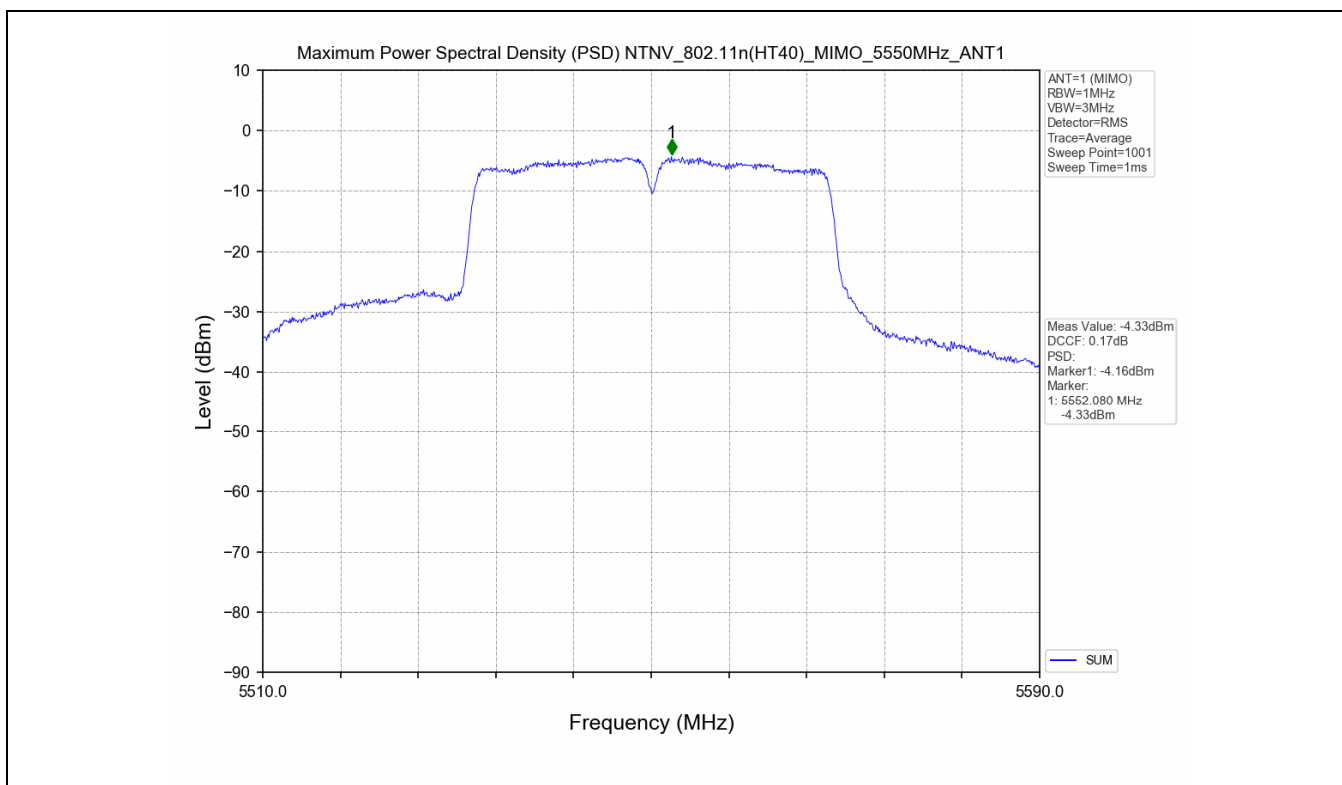
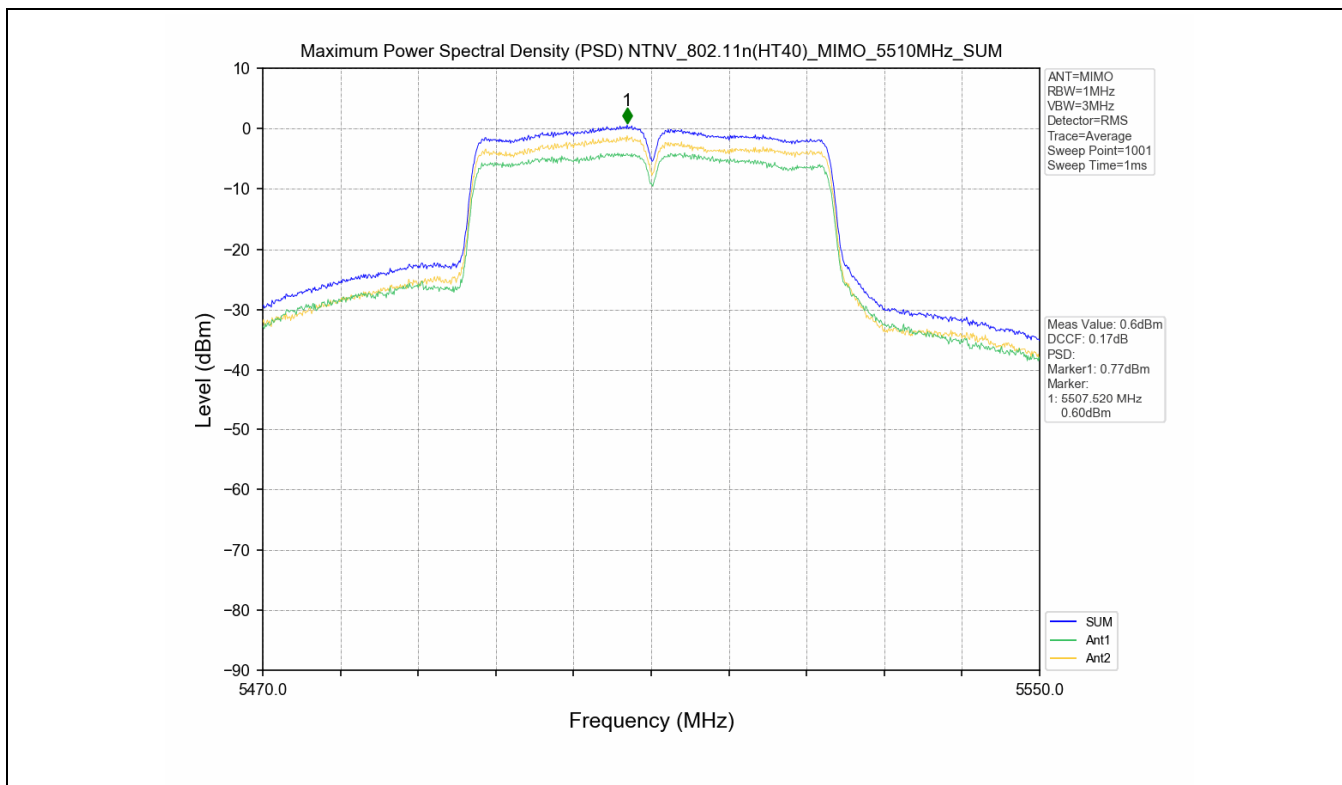
Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

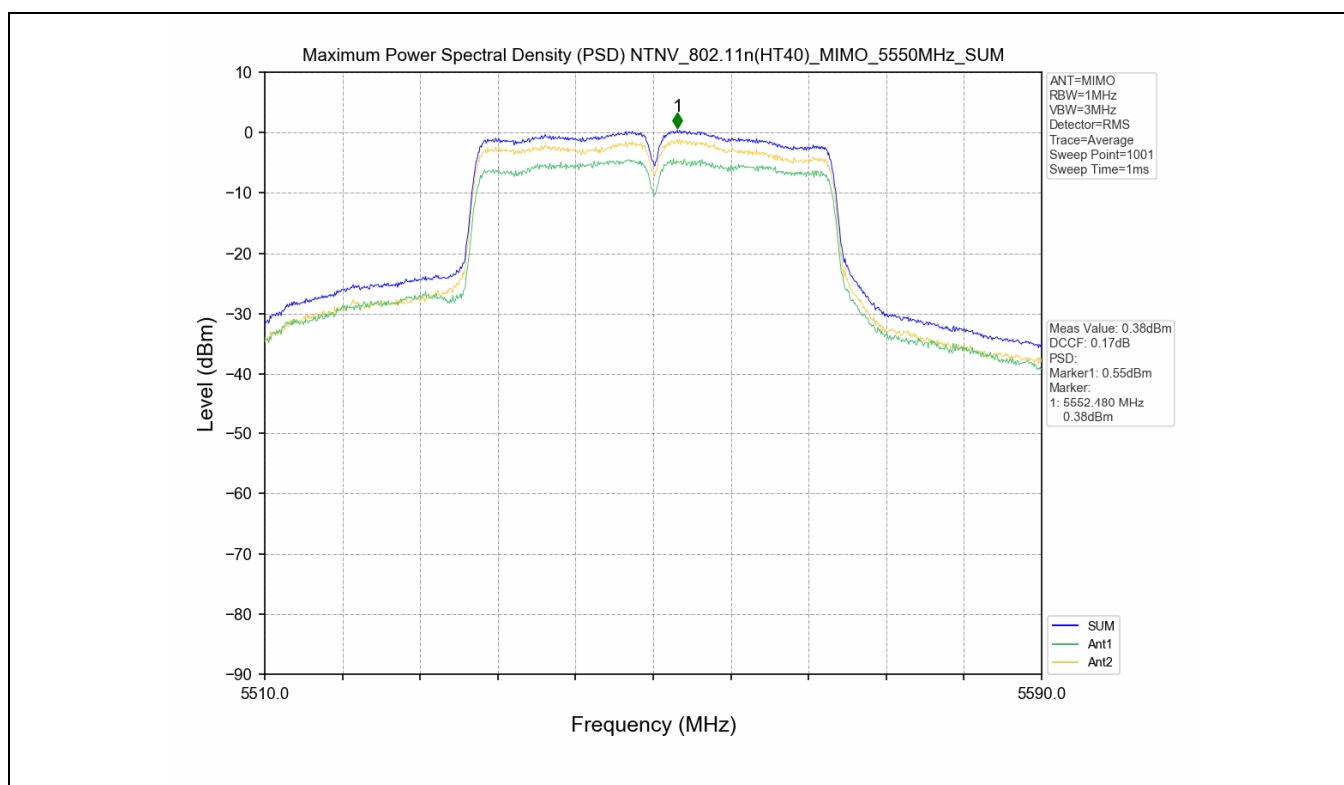
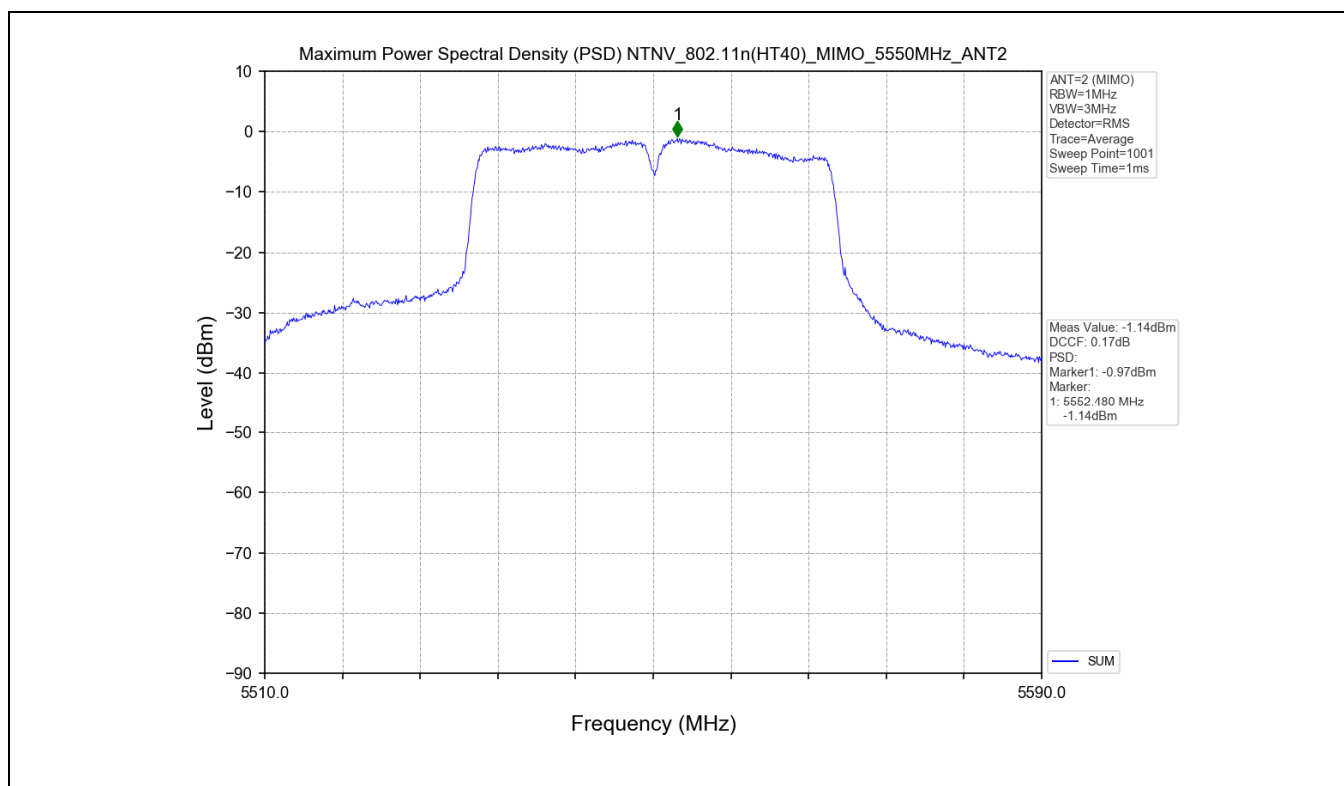
SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch

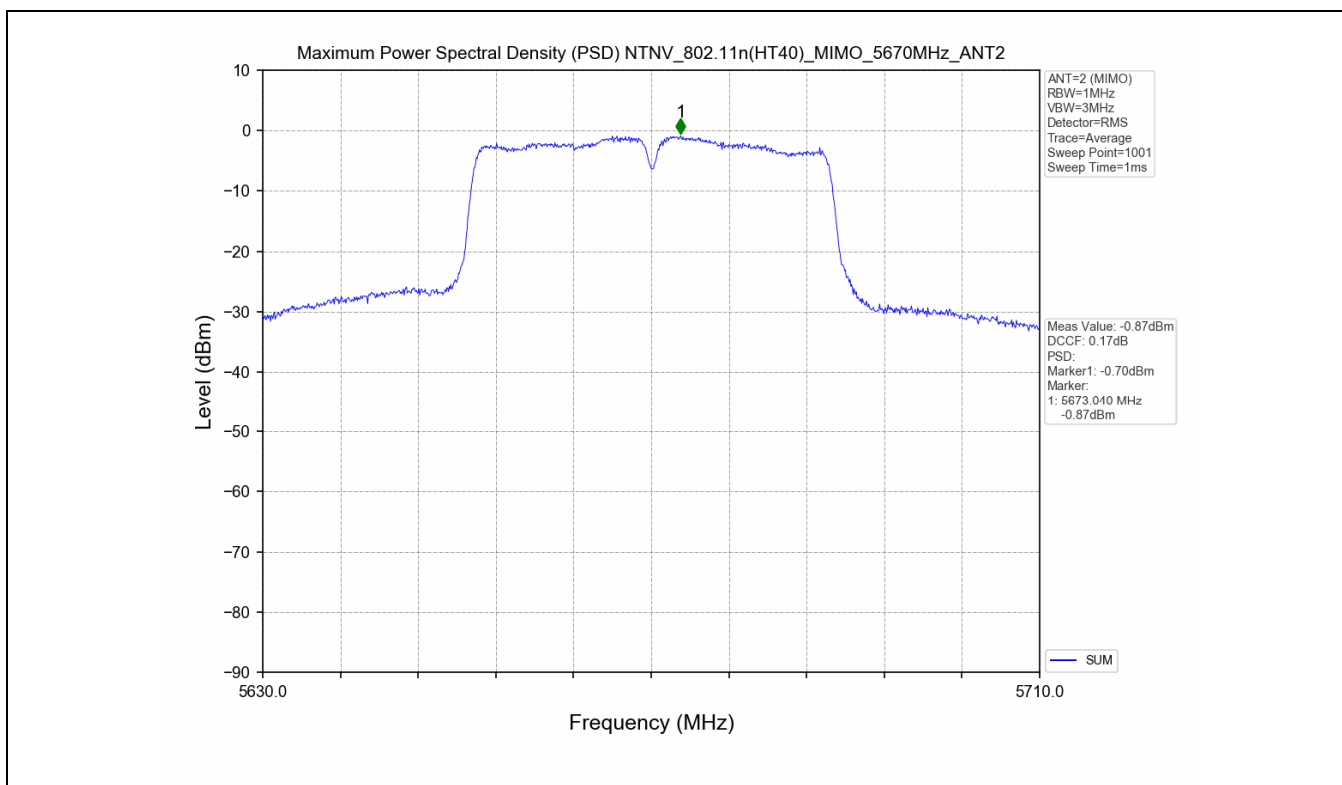
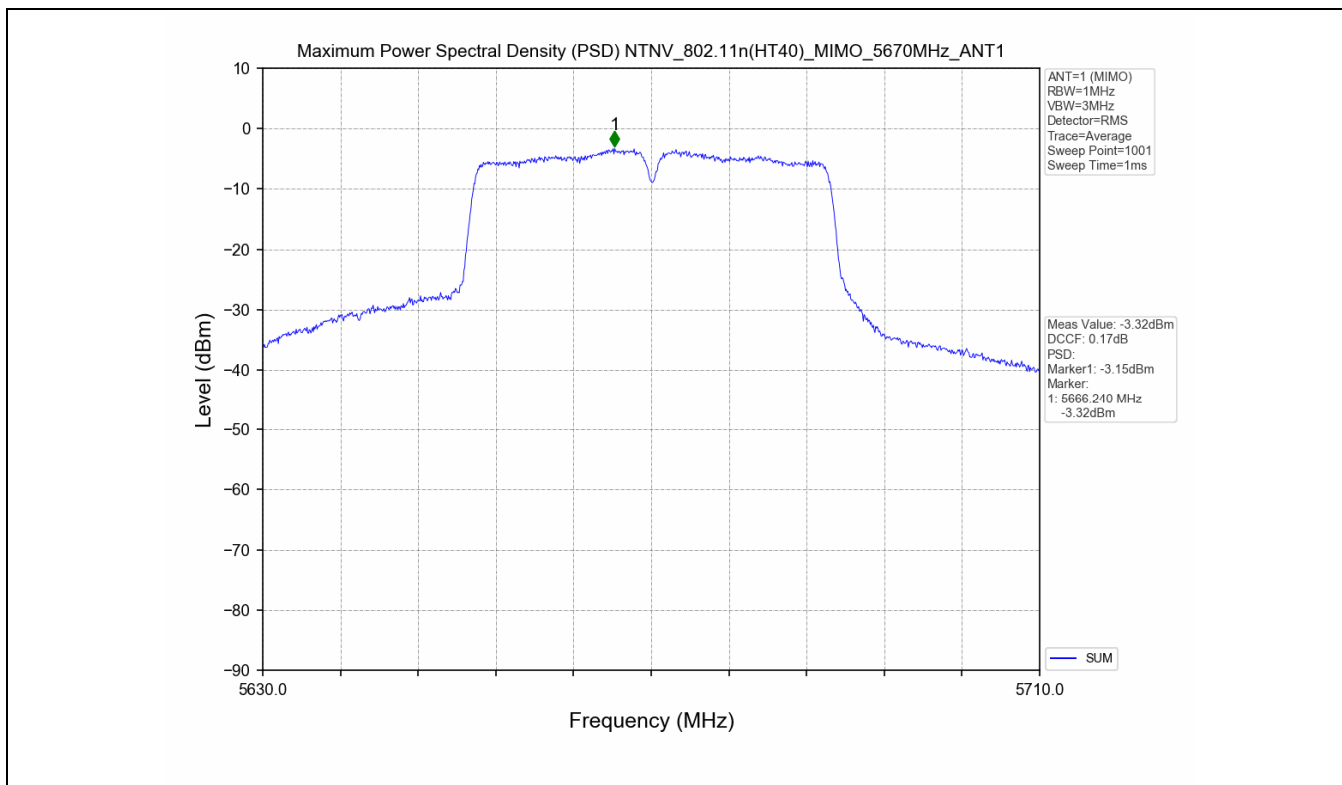
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

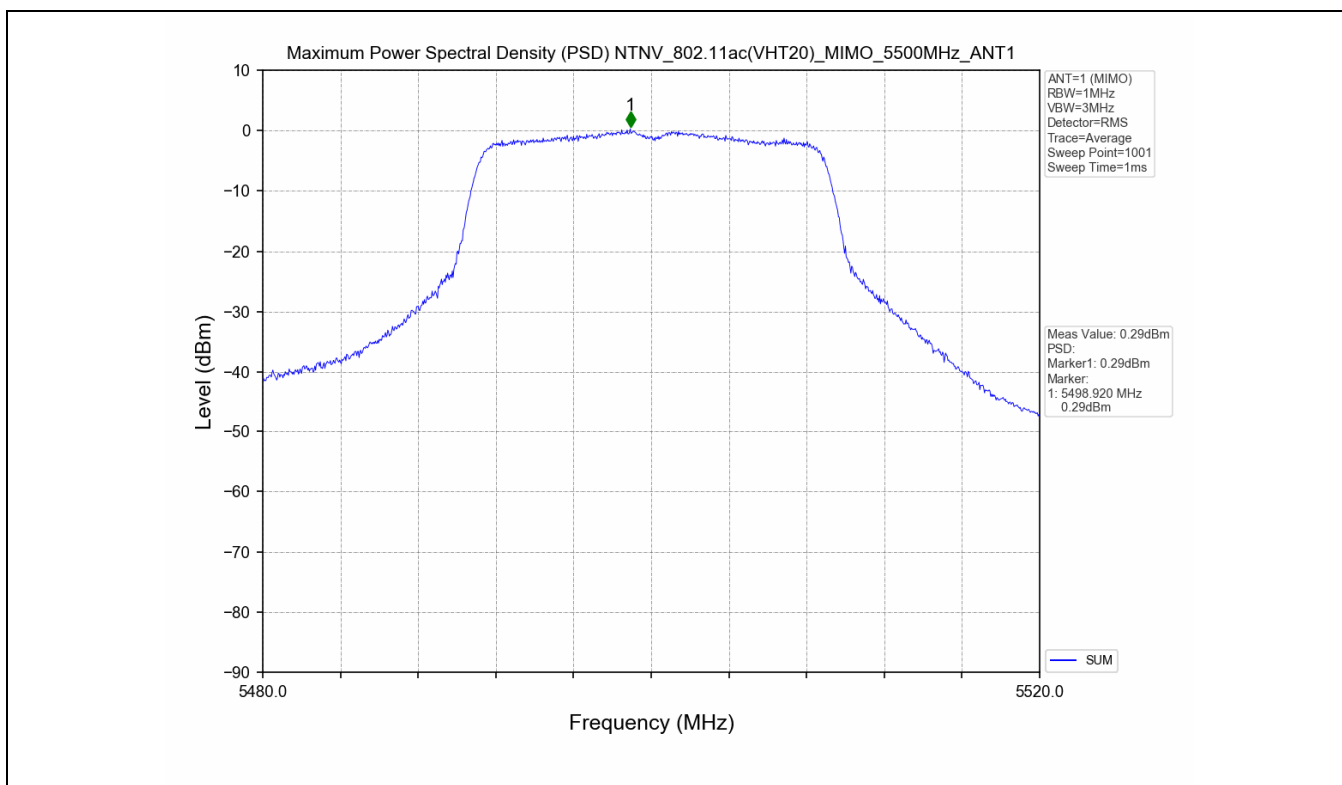
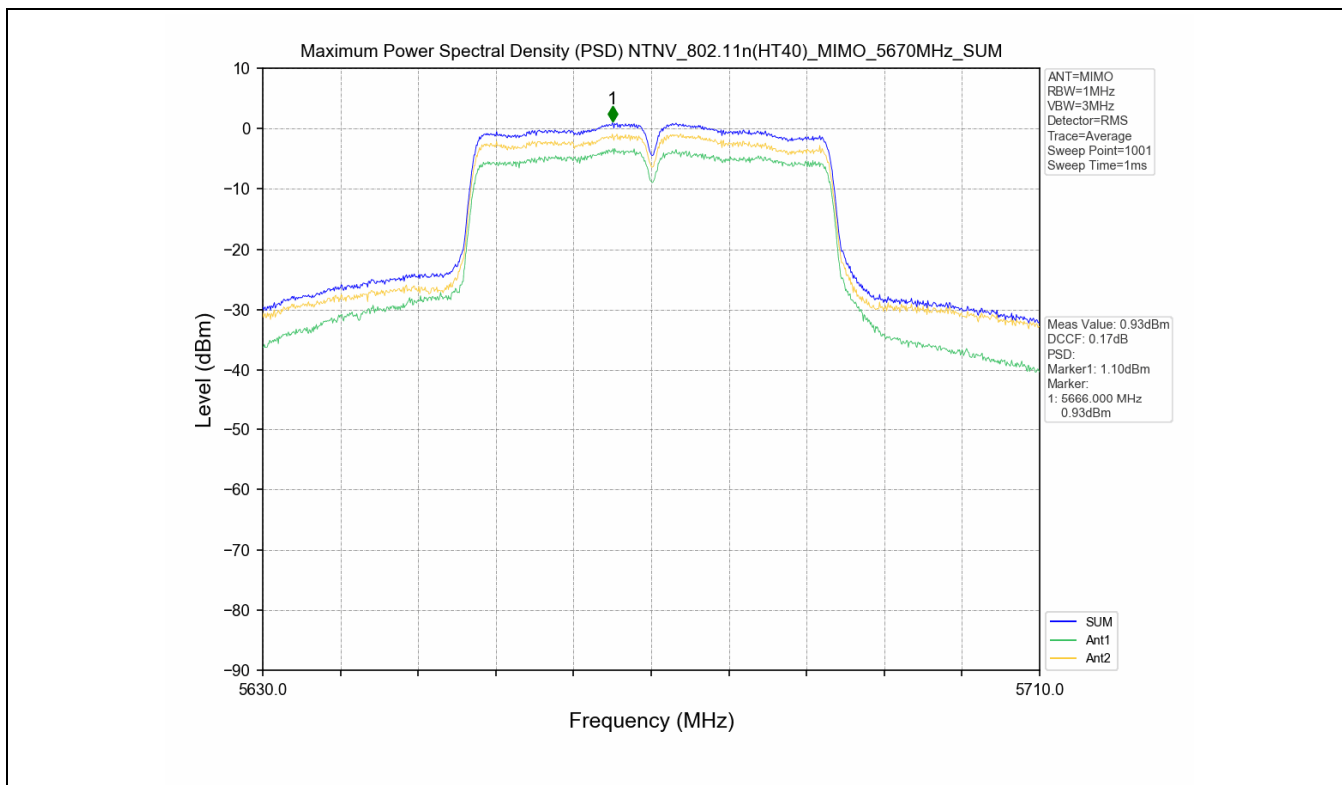






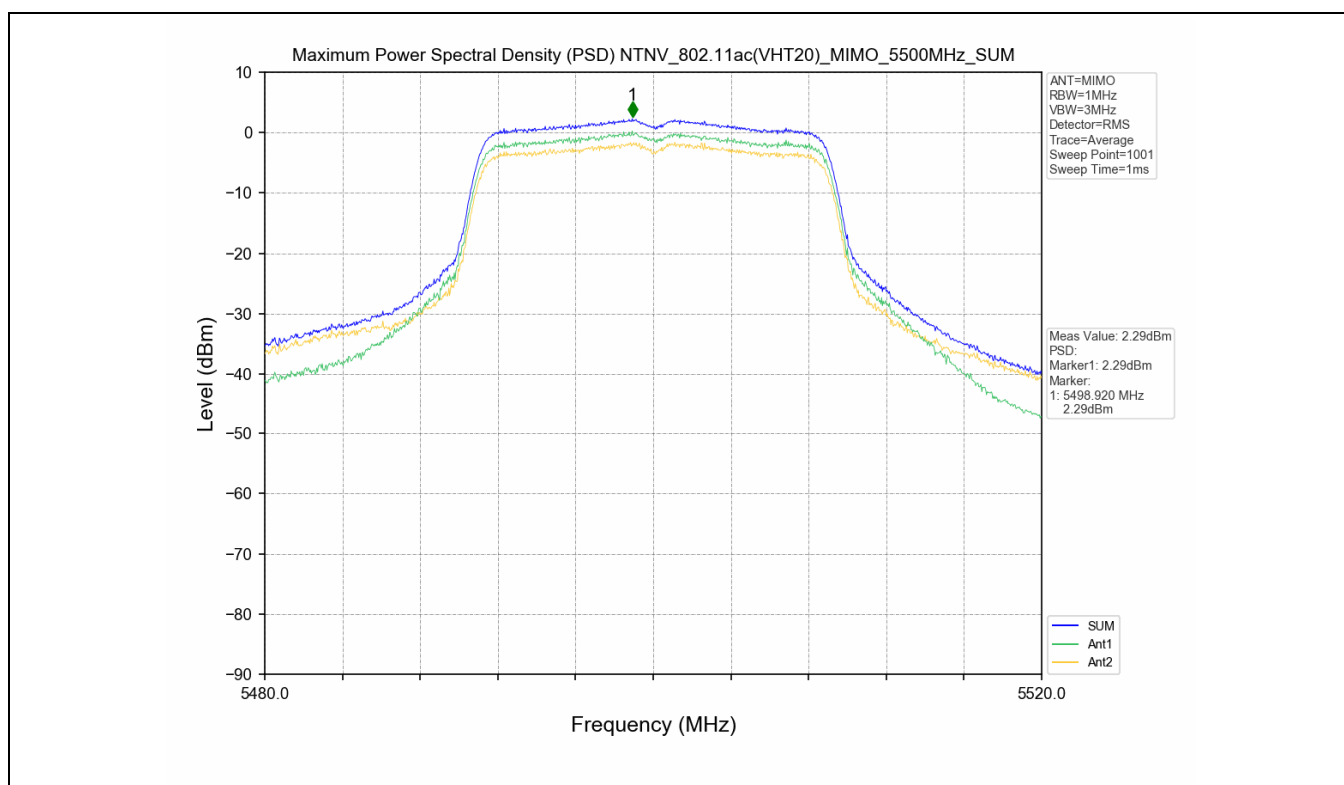
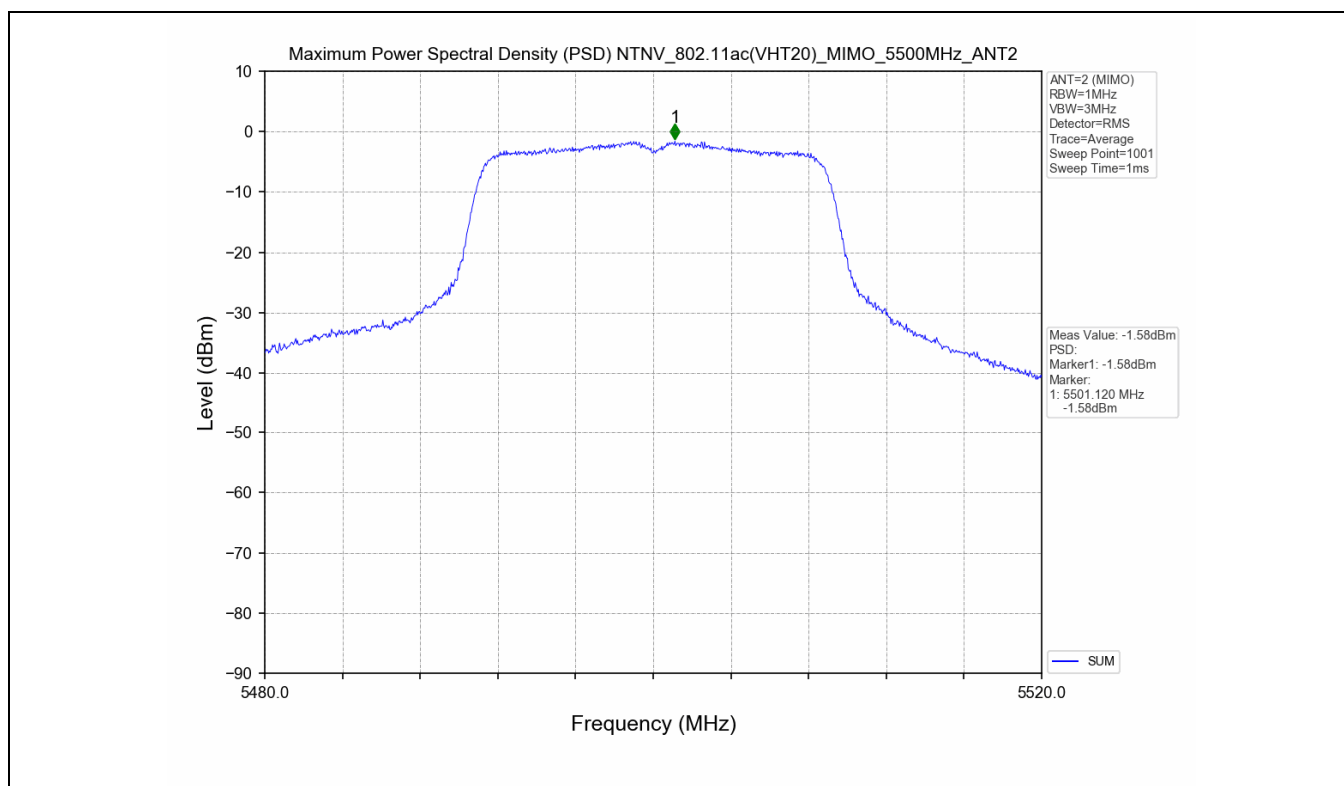


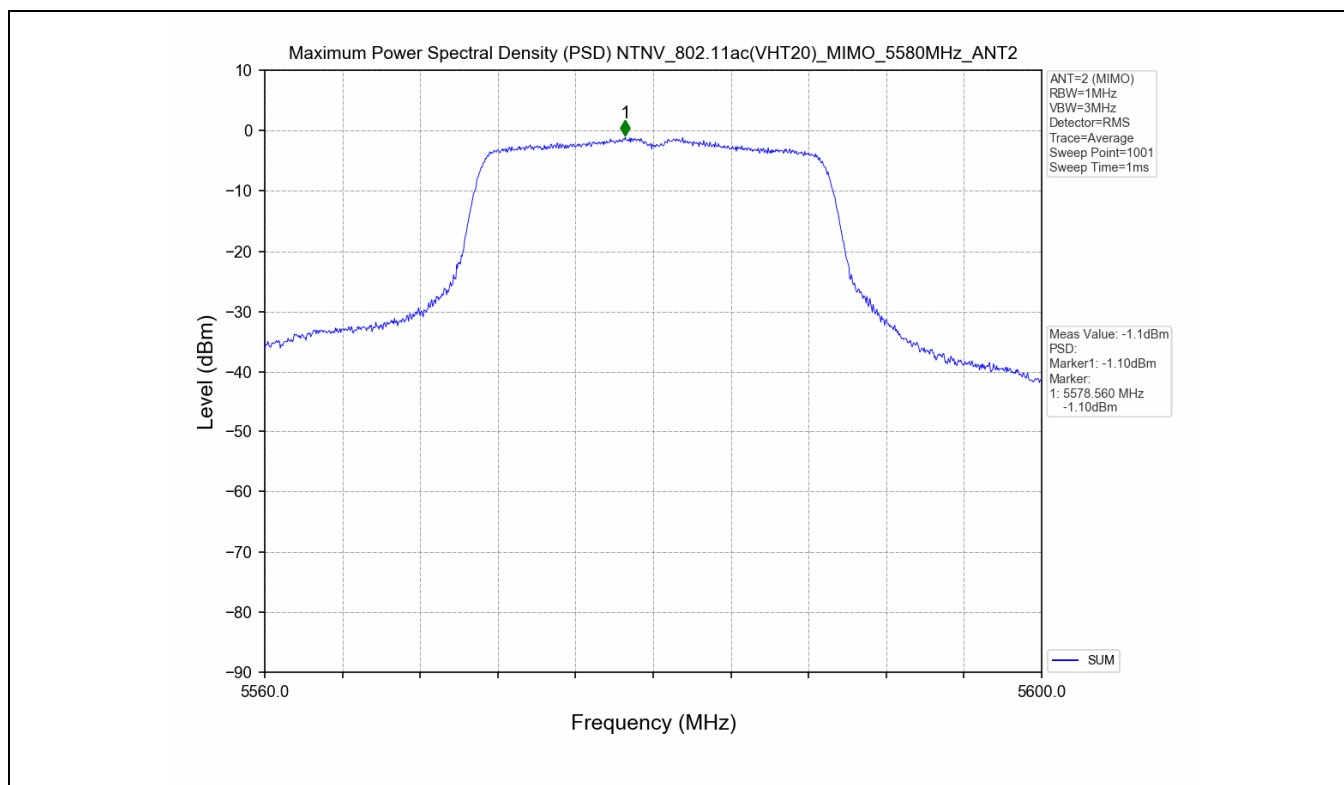
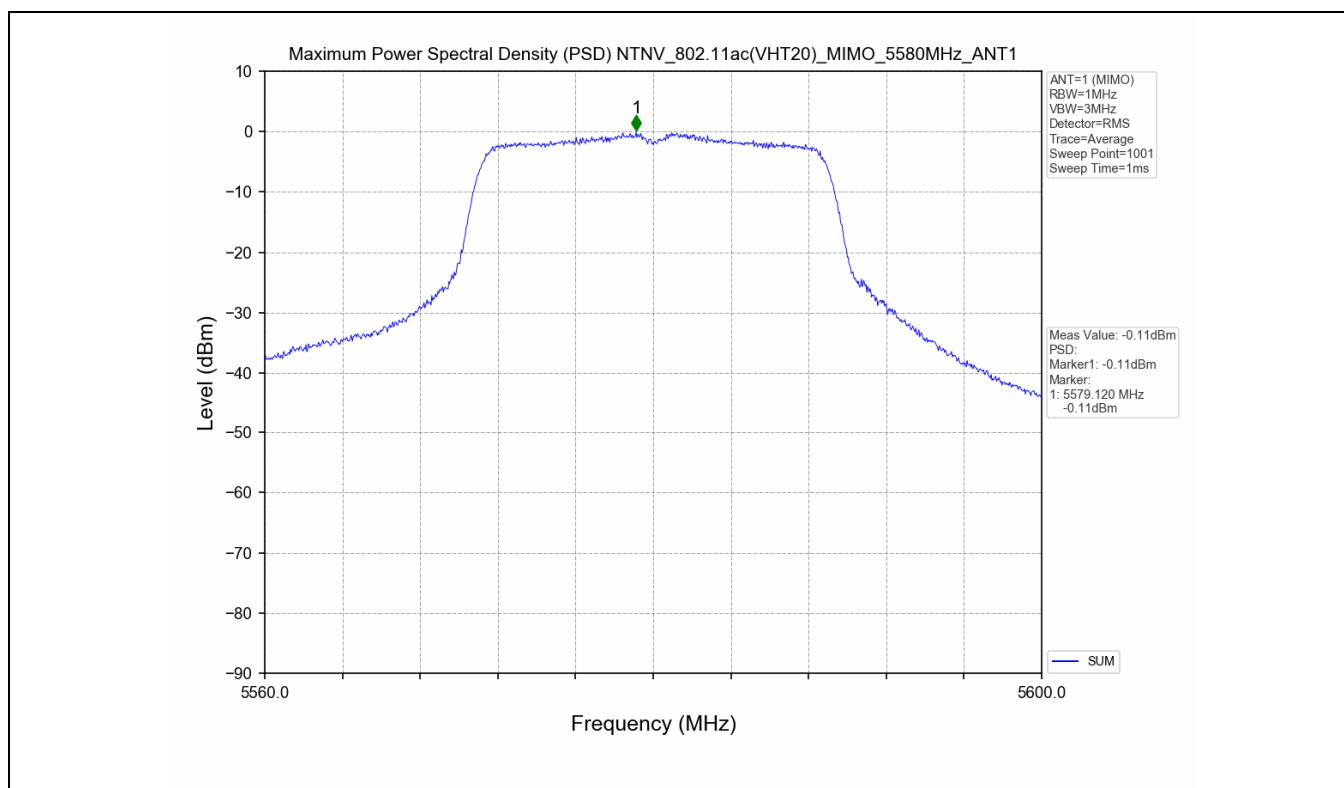


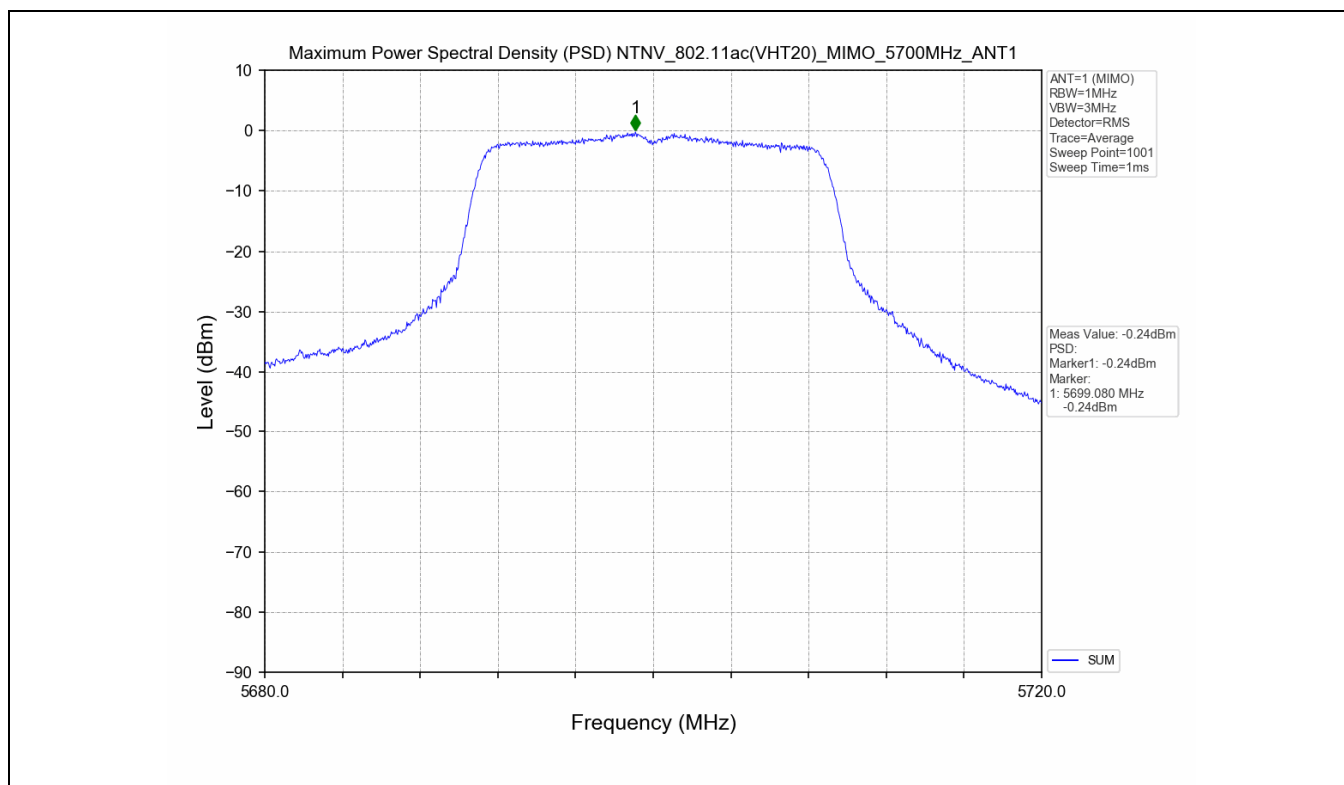
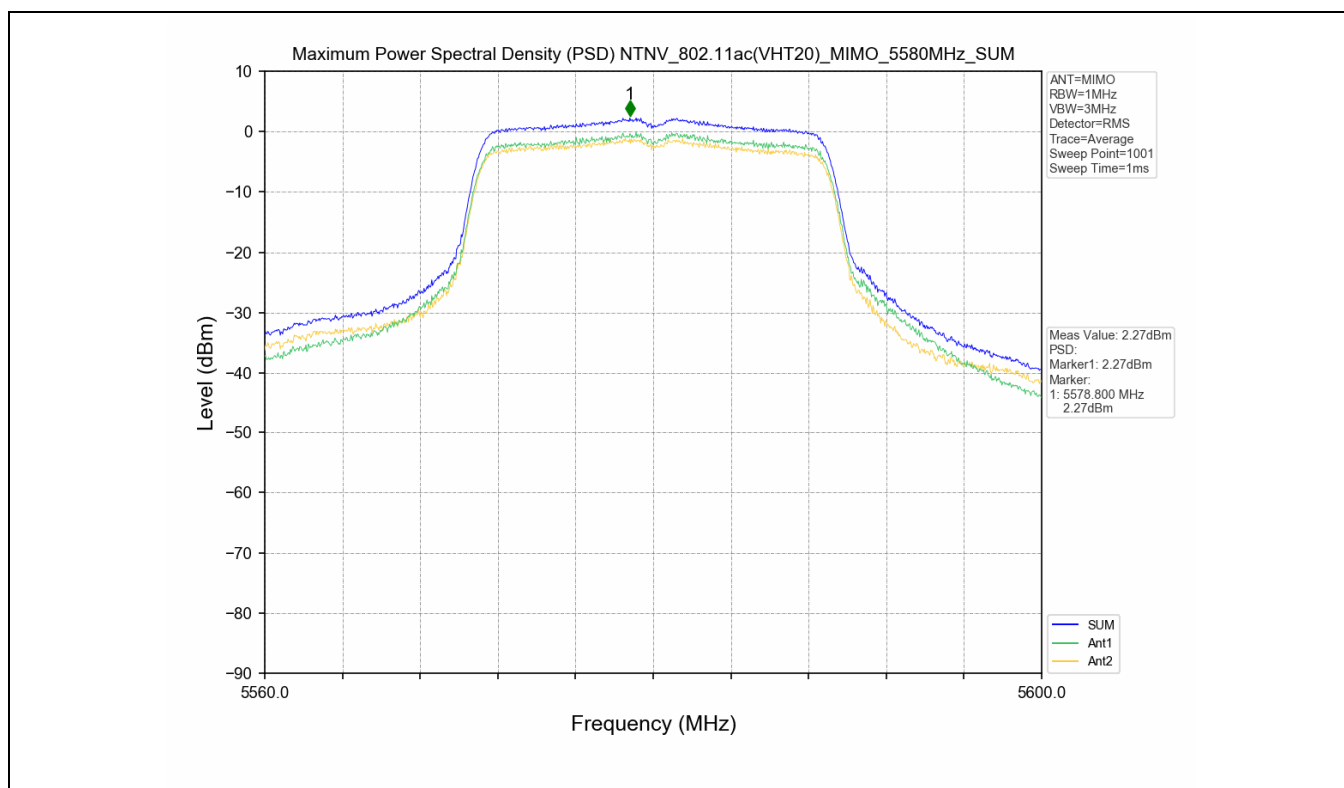


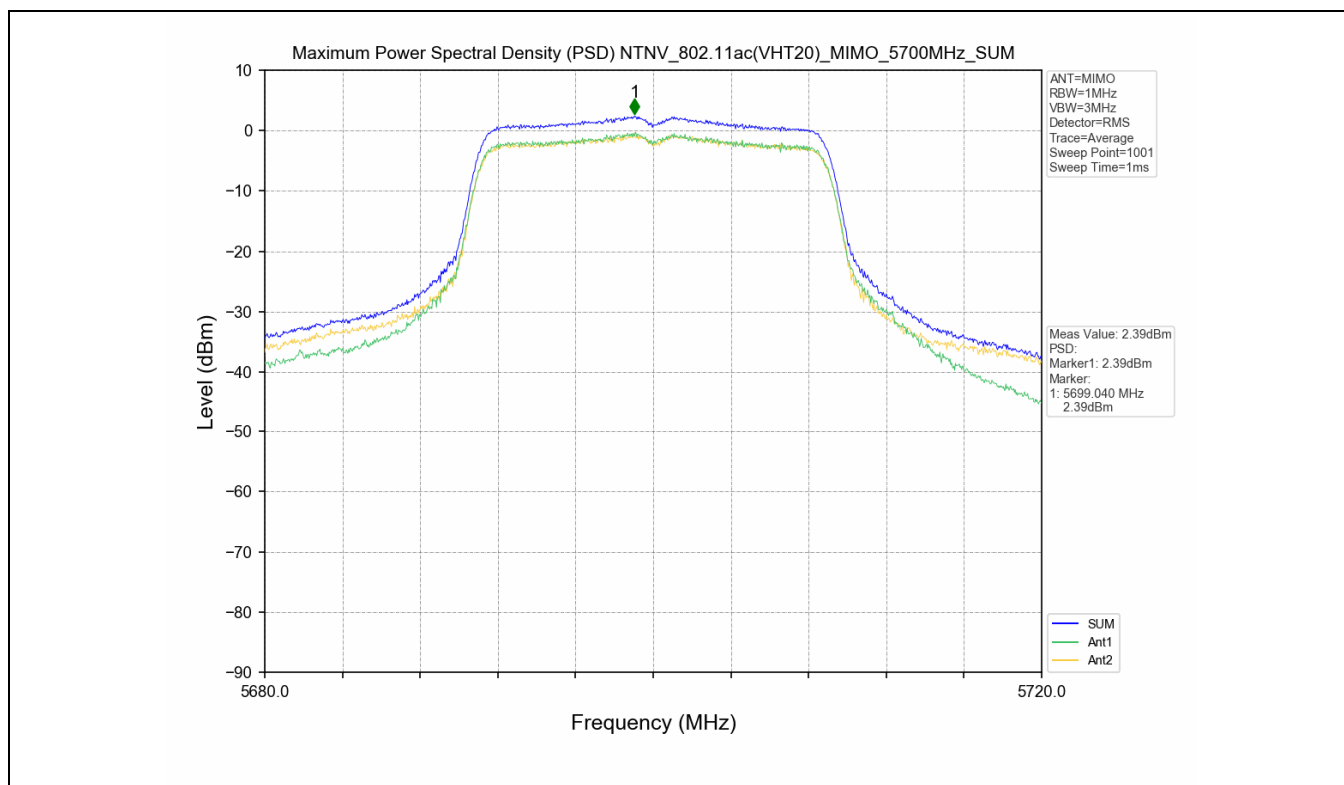
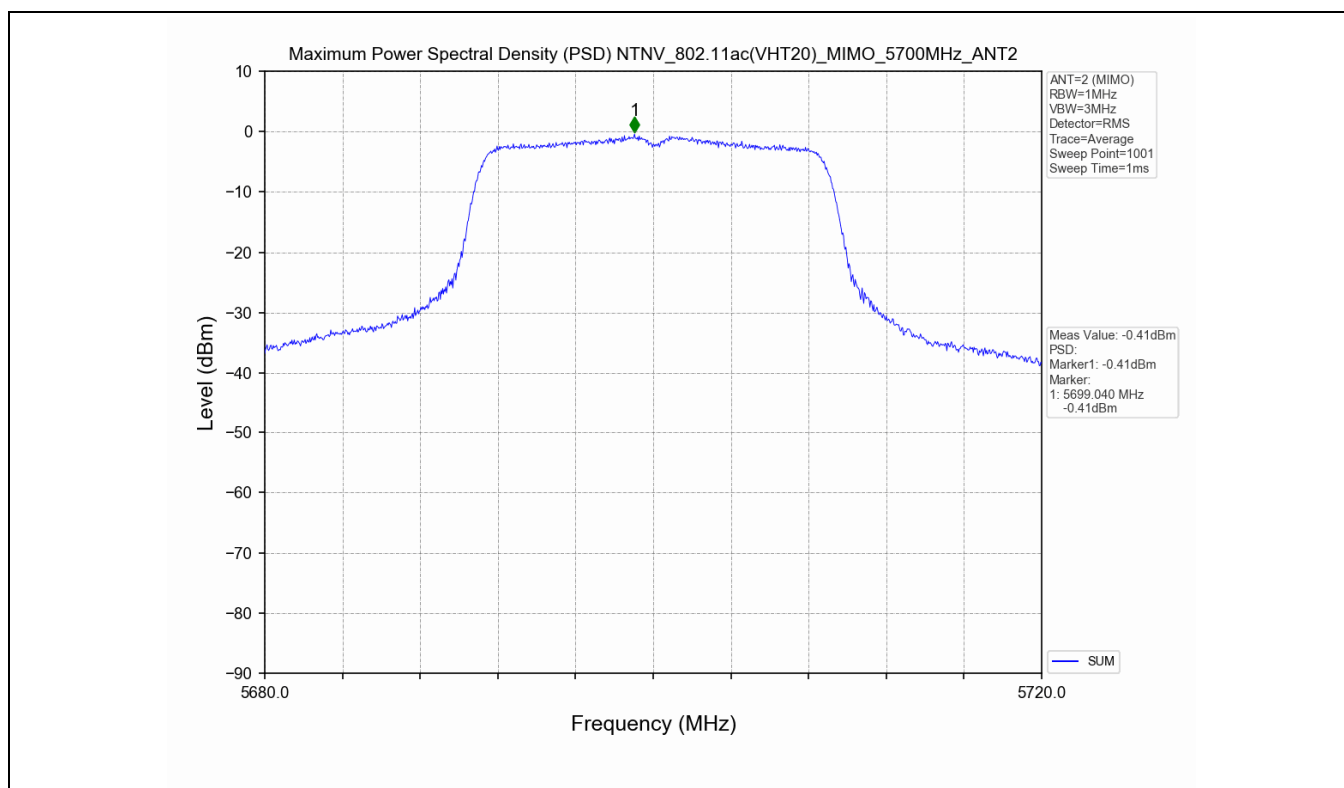
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

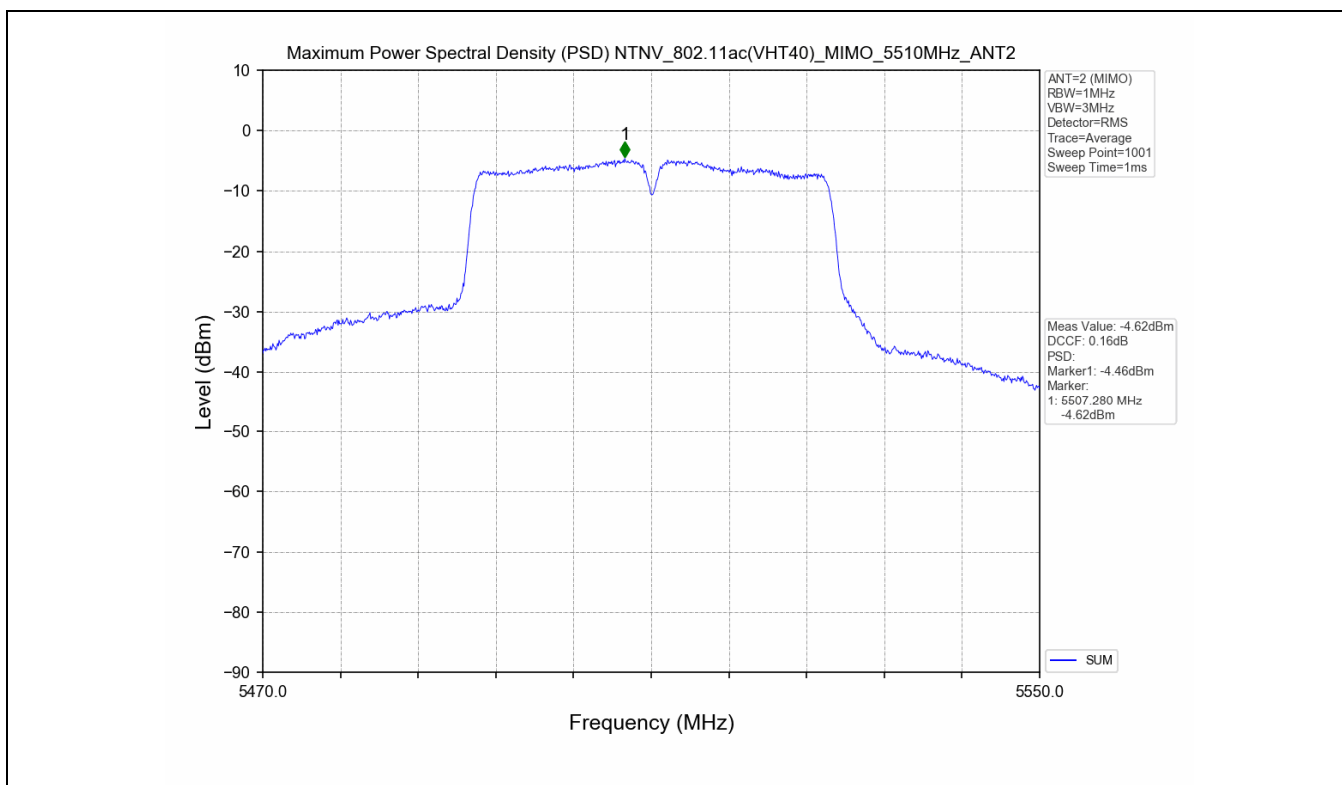
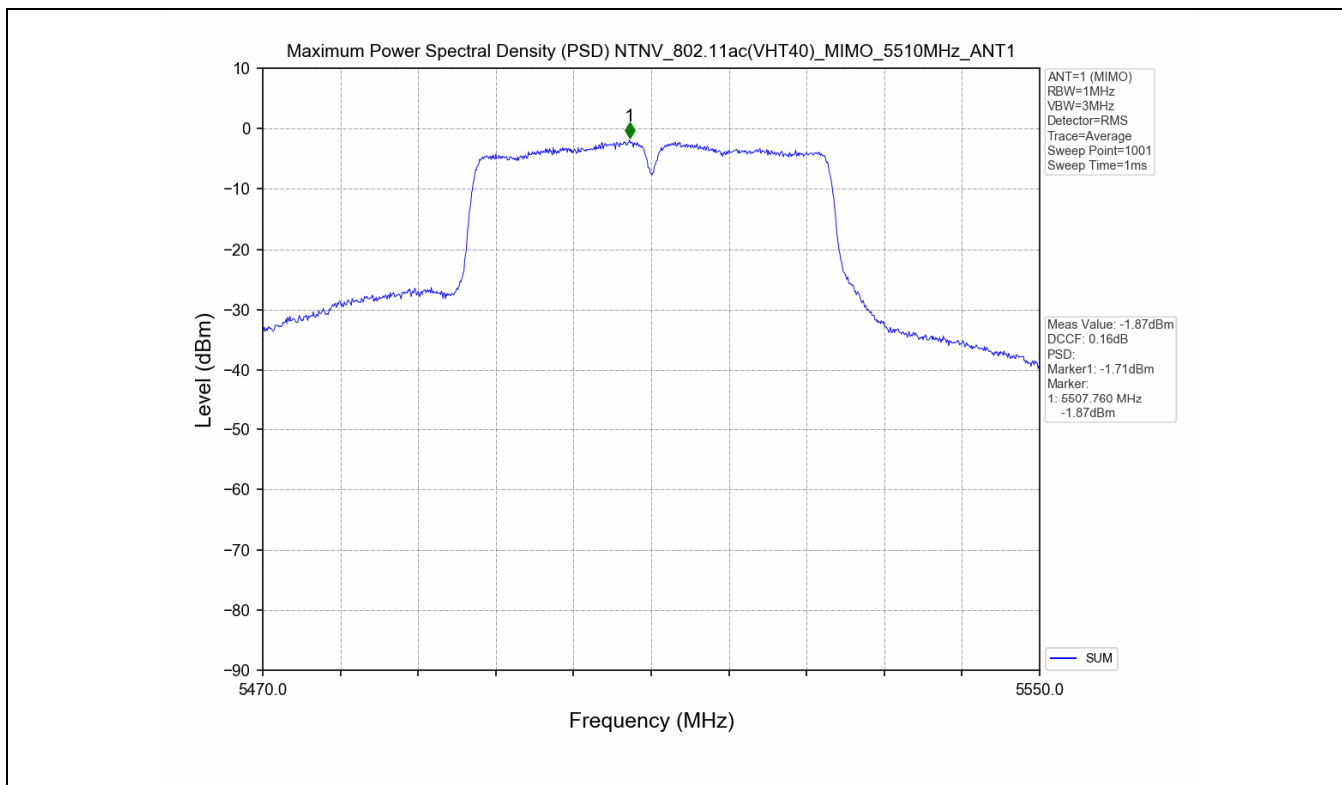
Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

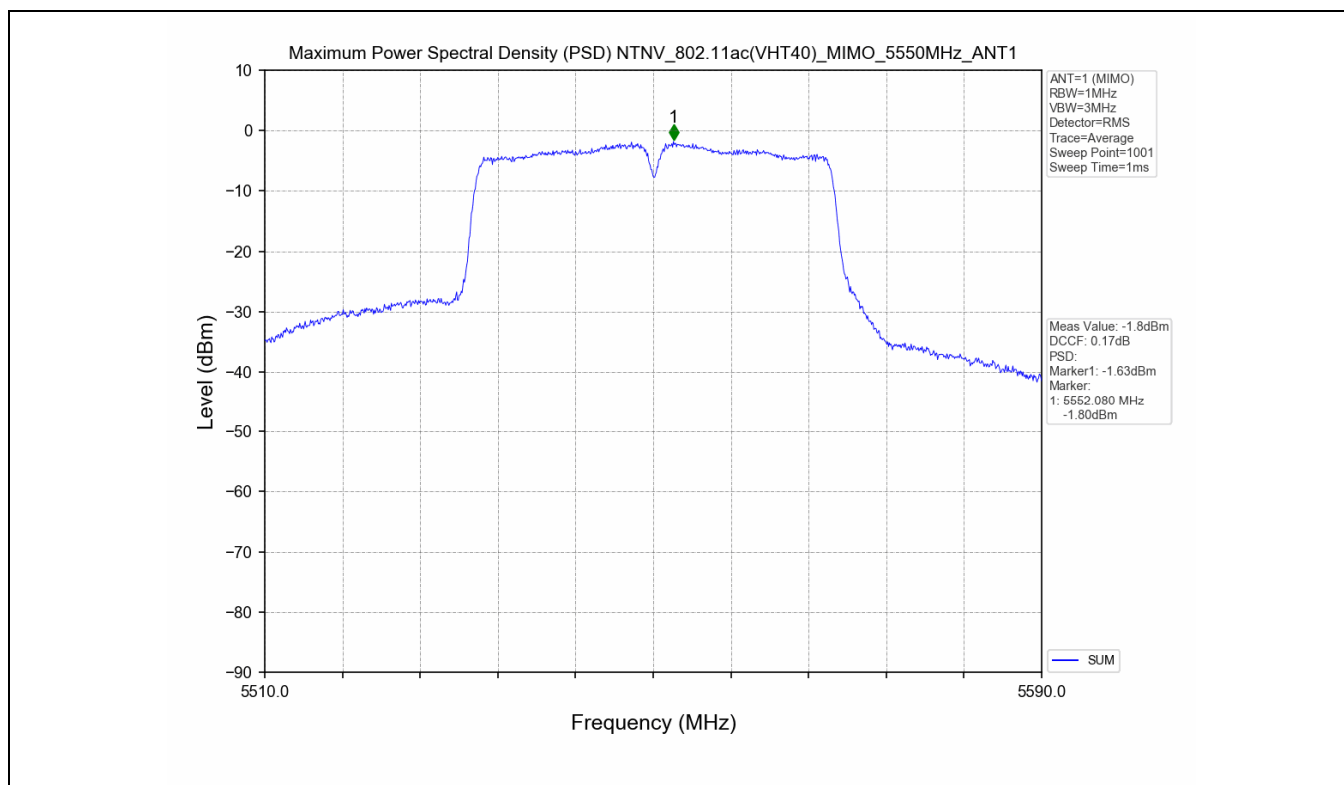
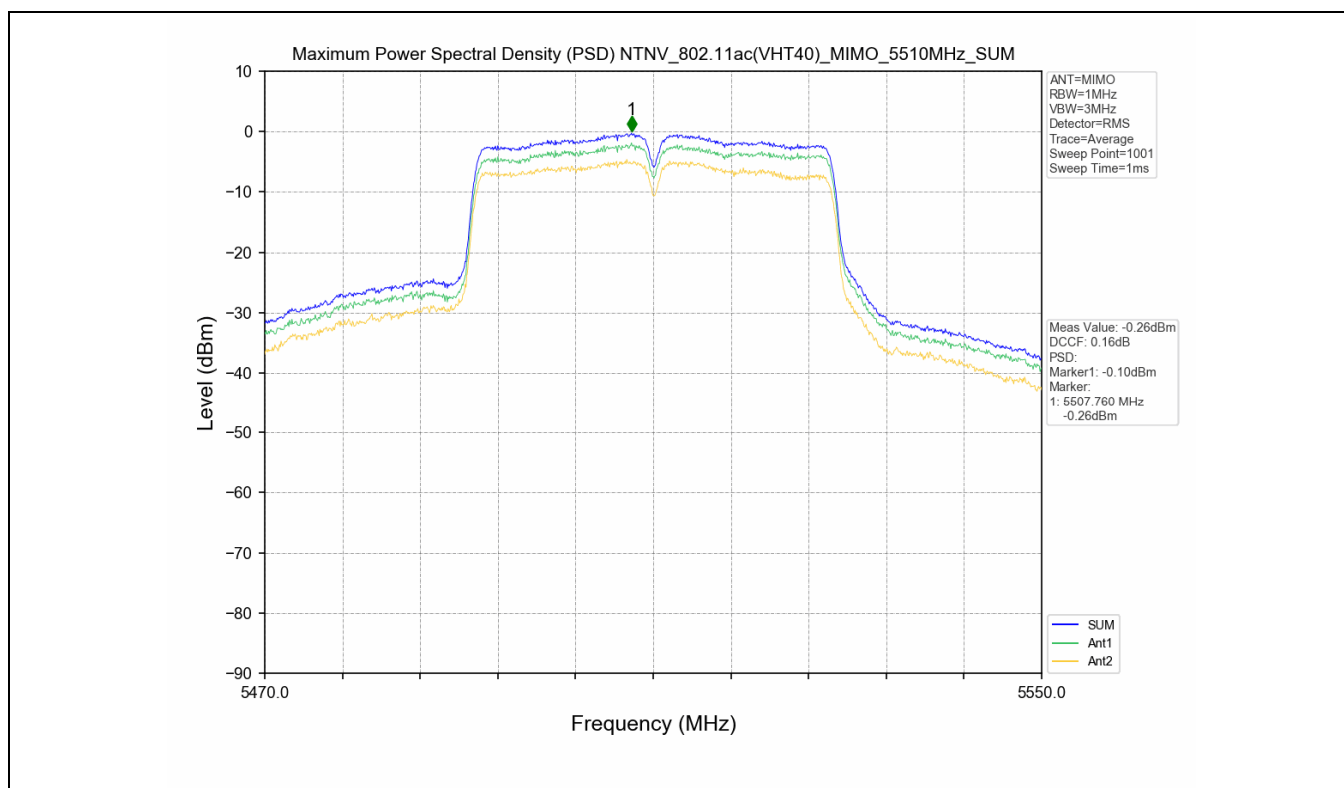


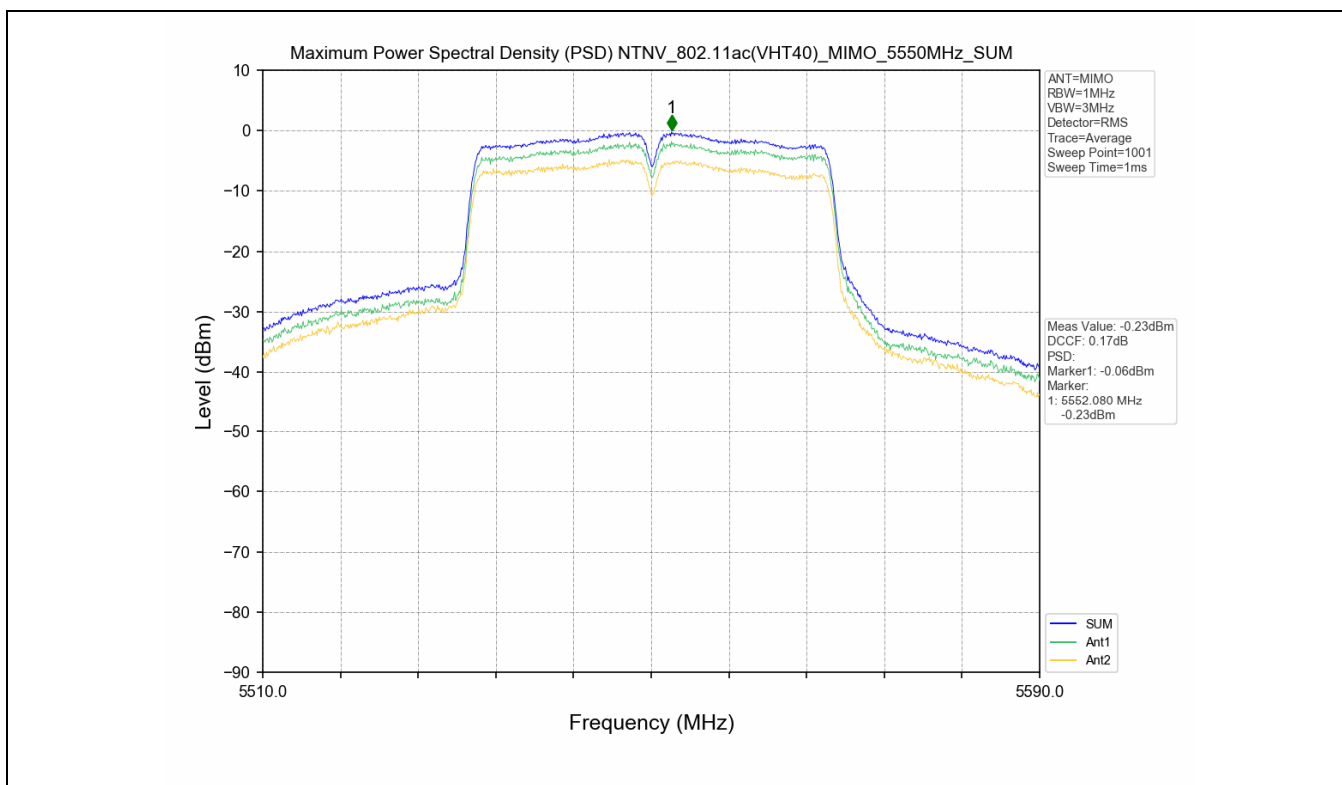
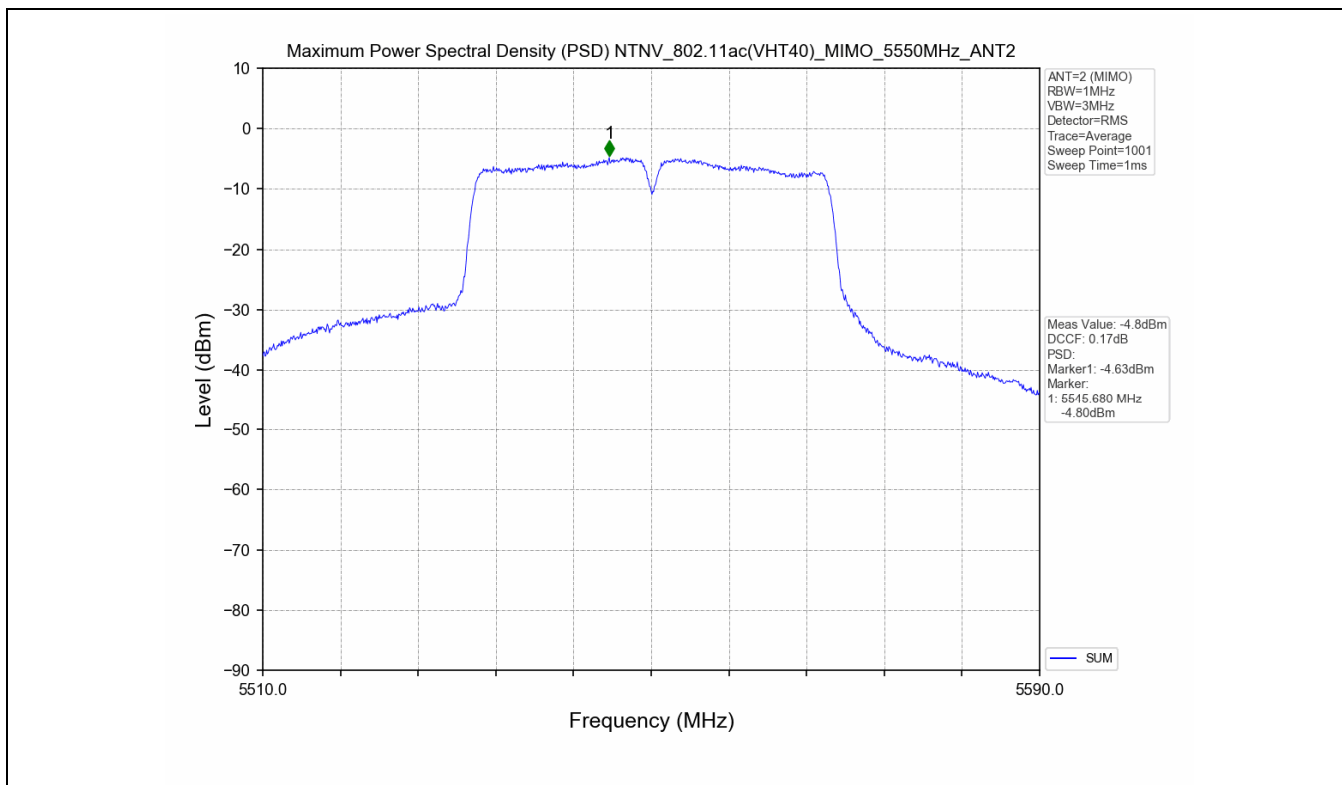


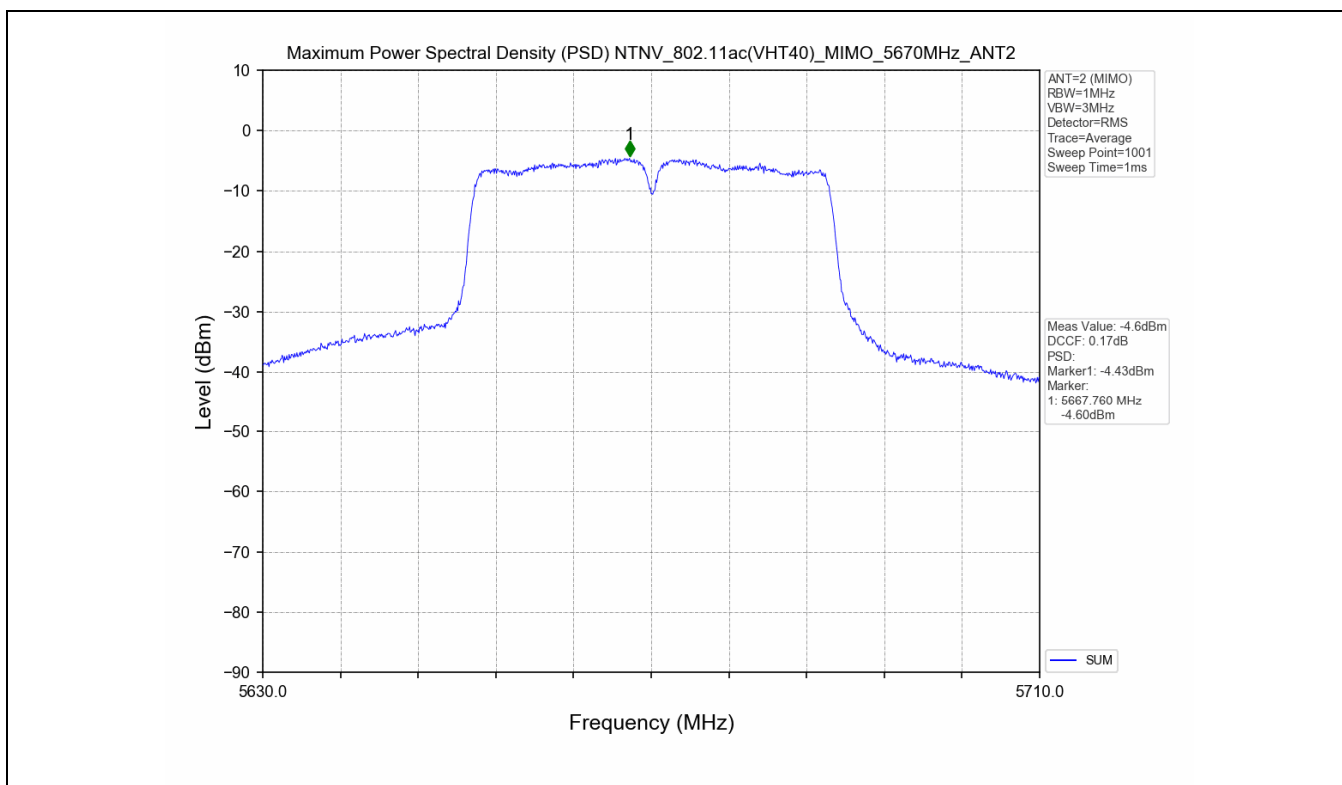
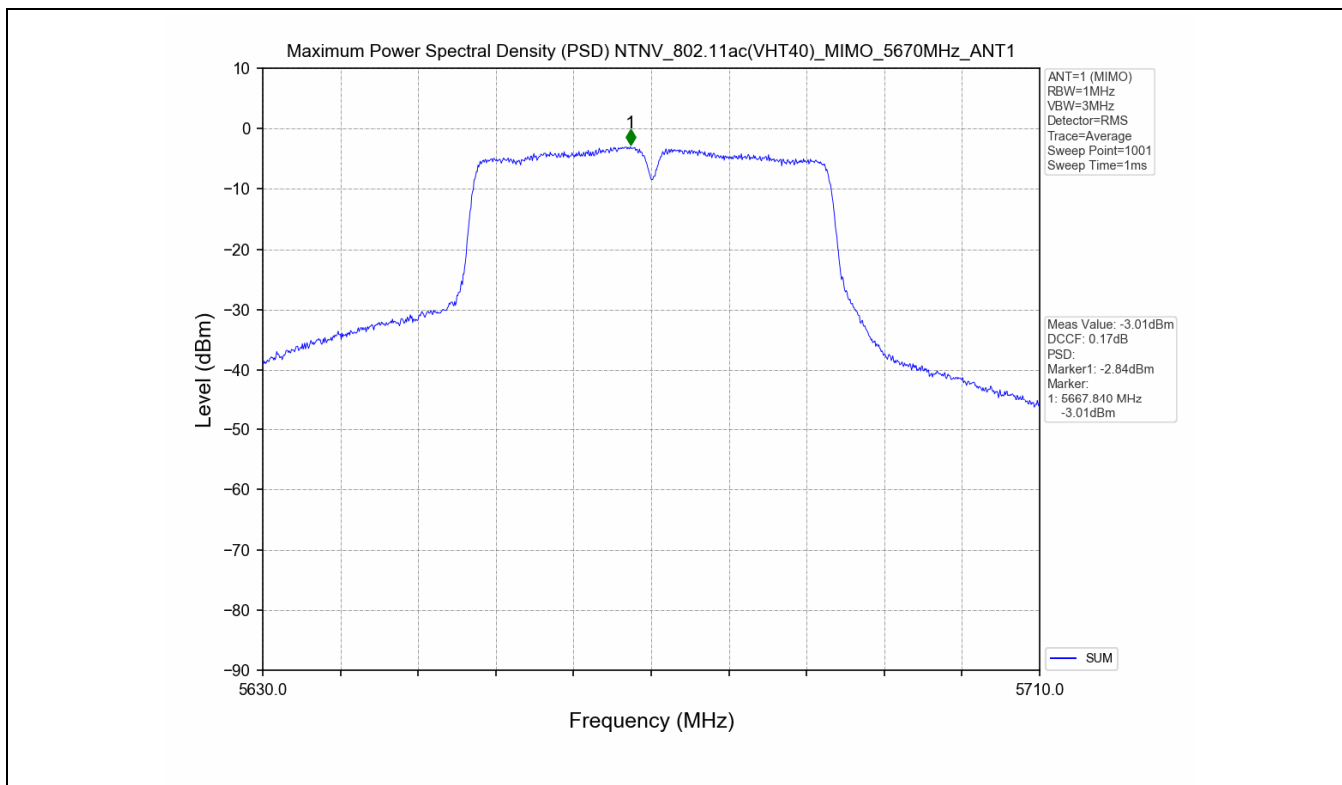


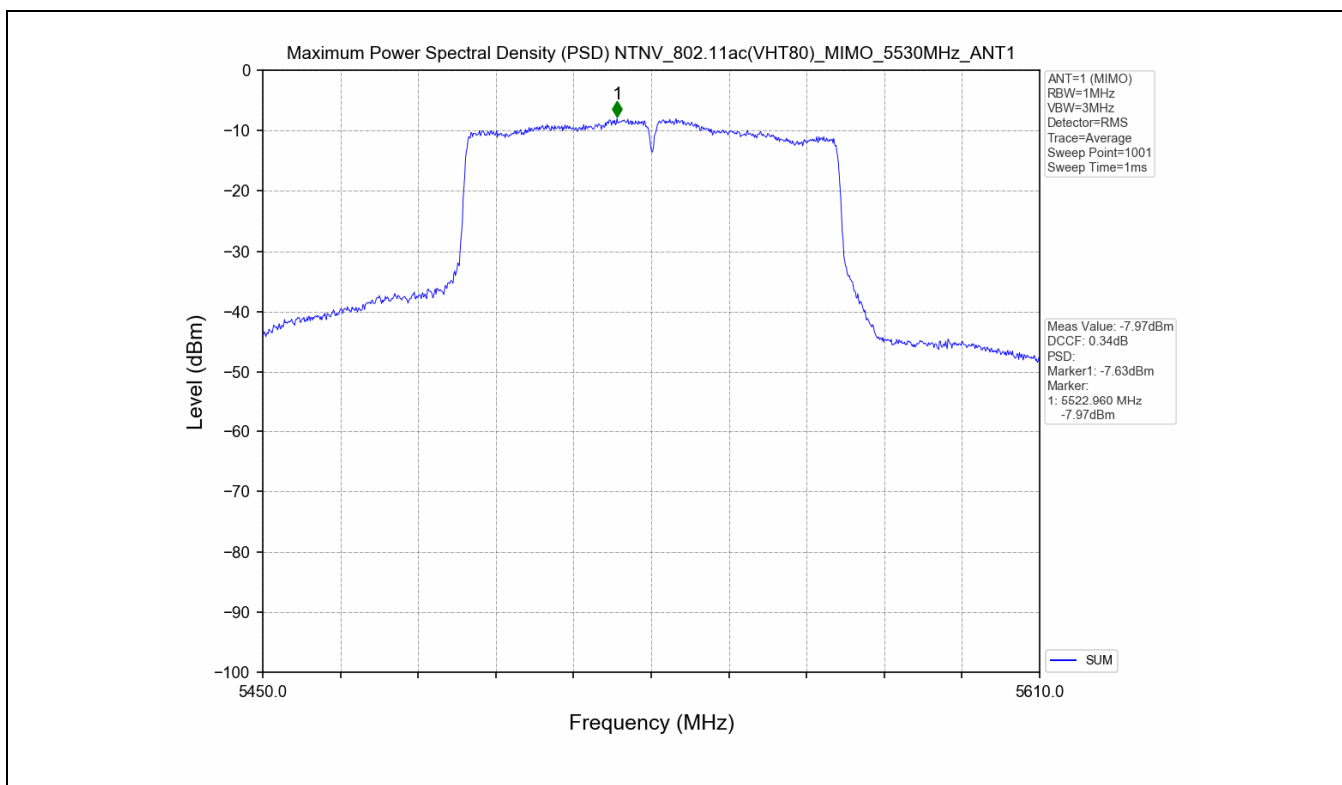
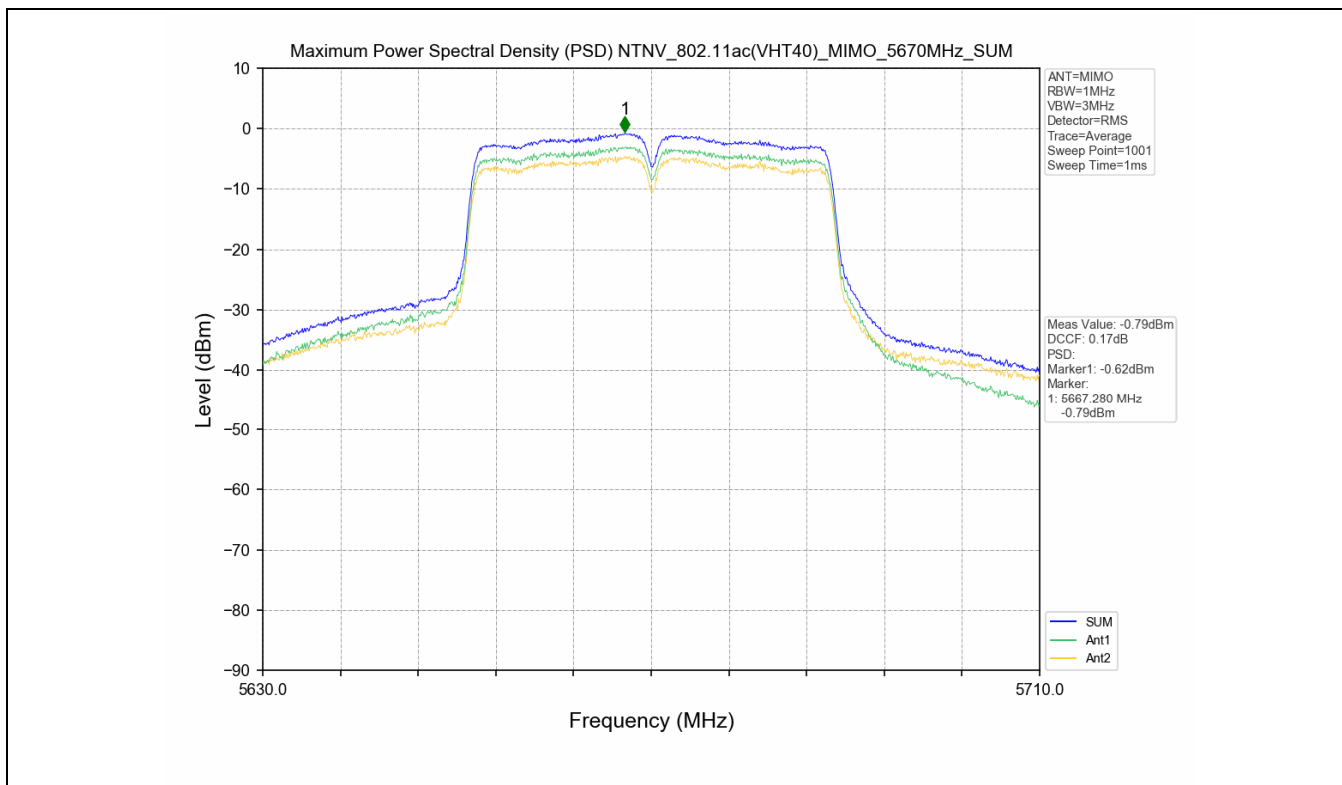


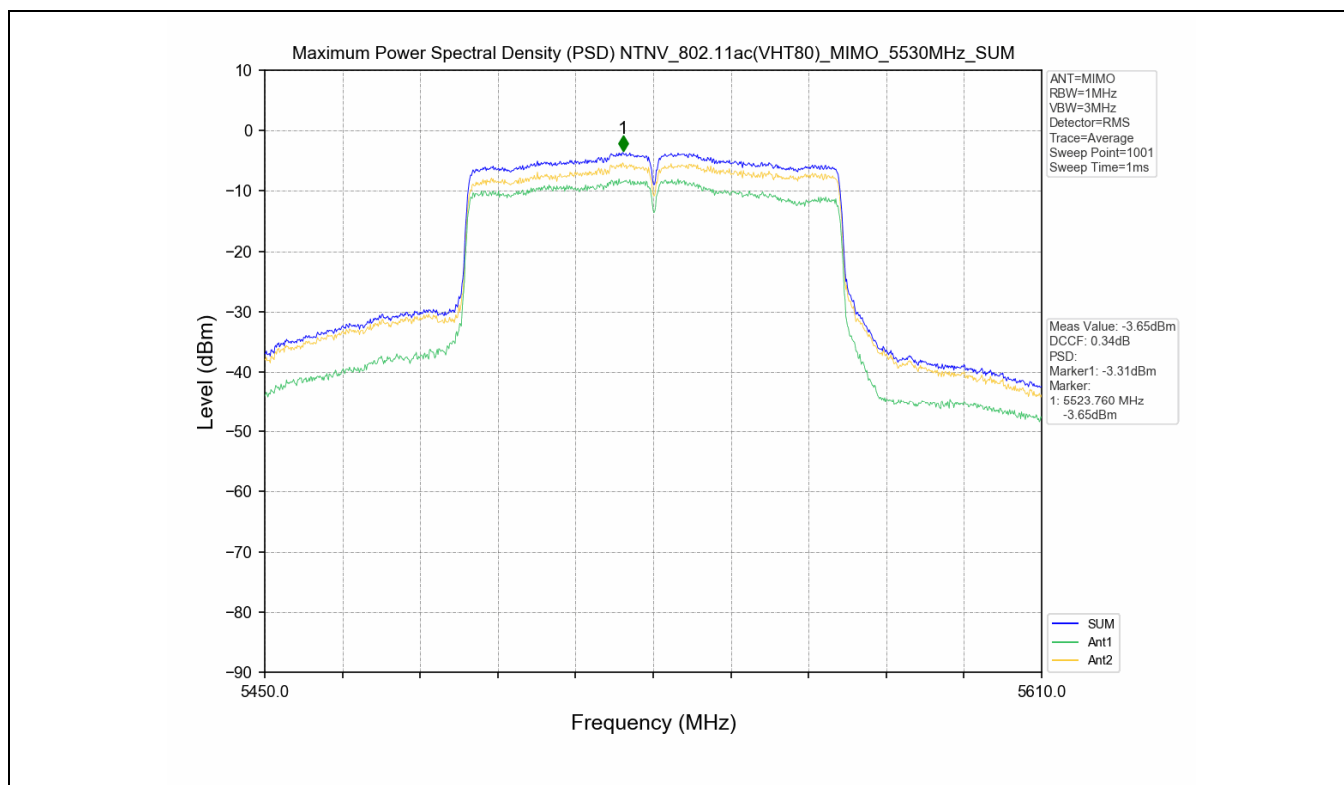
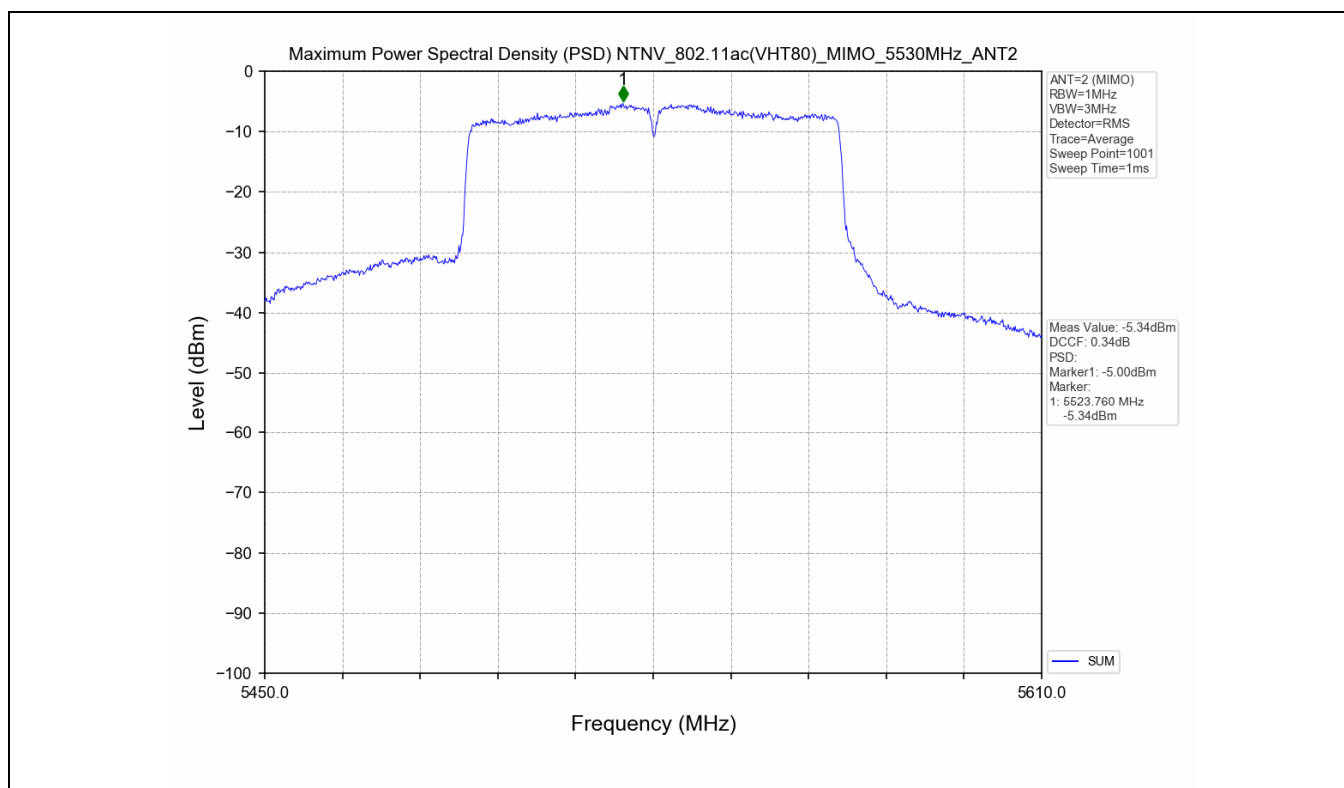


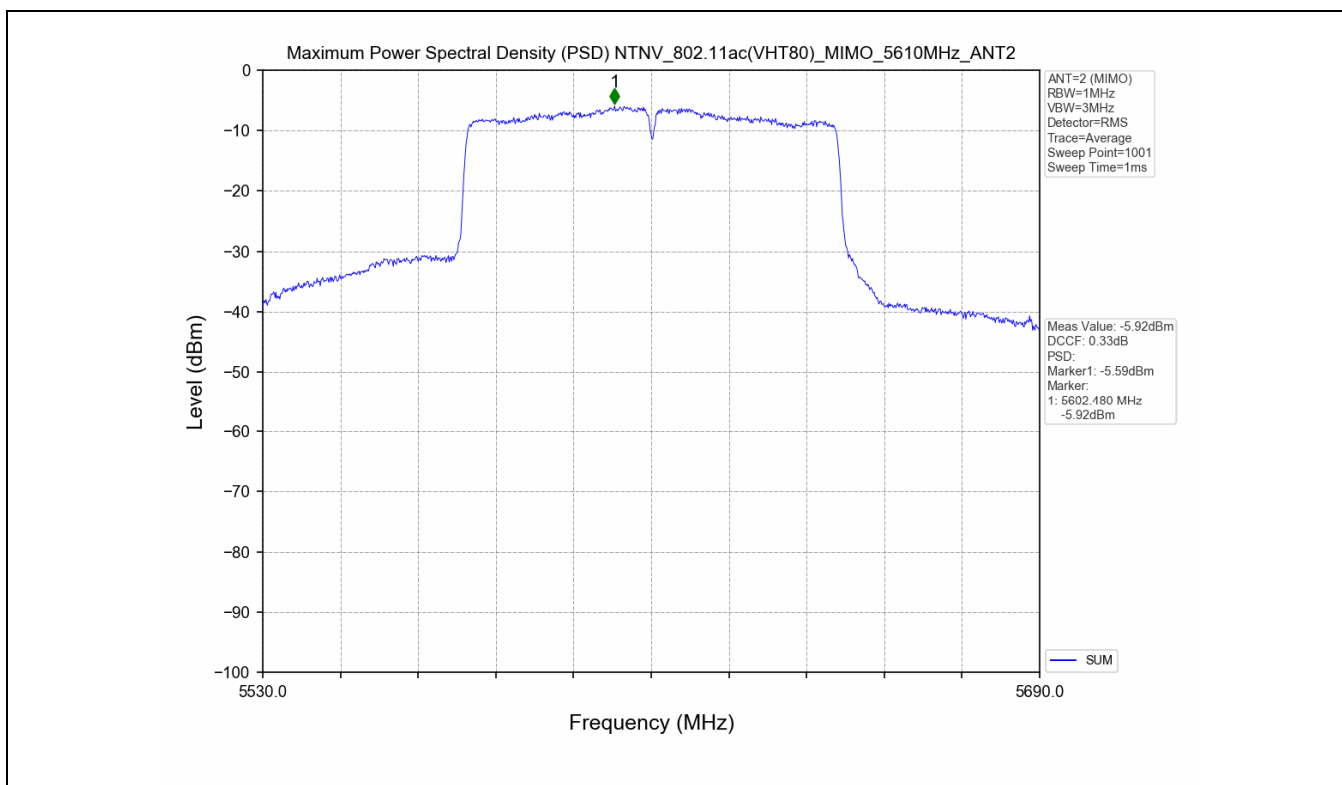
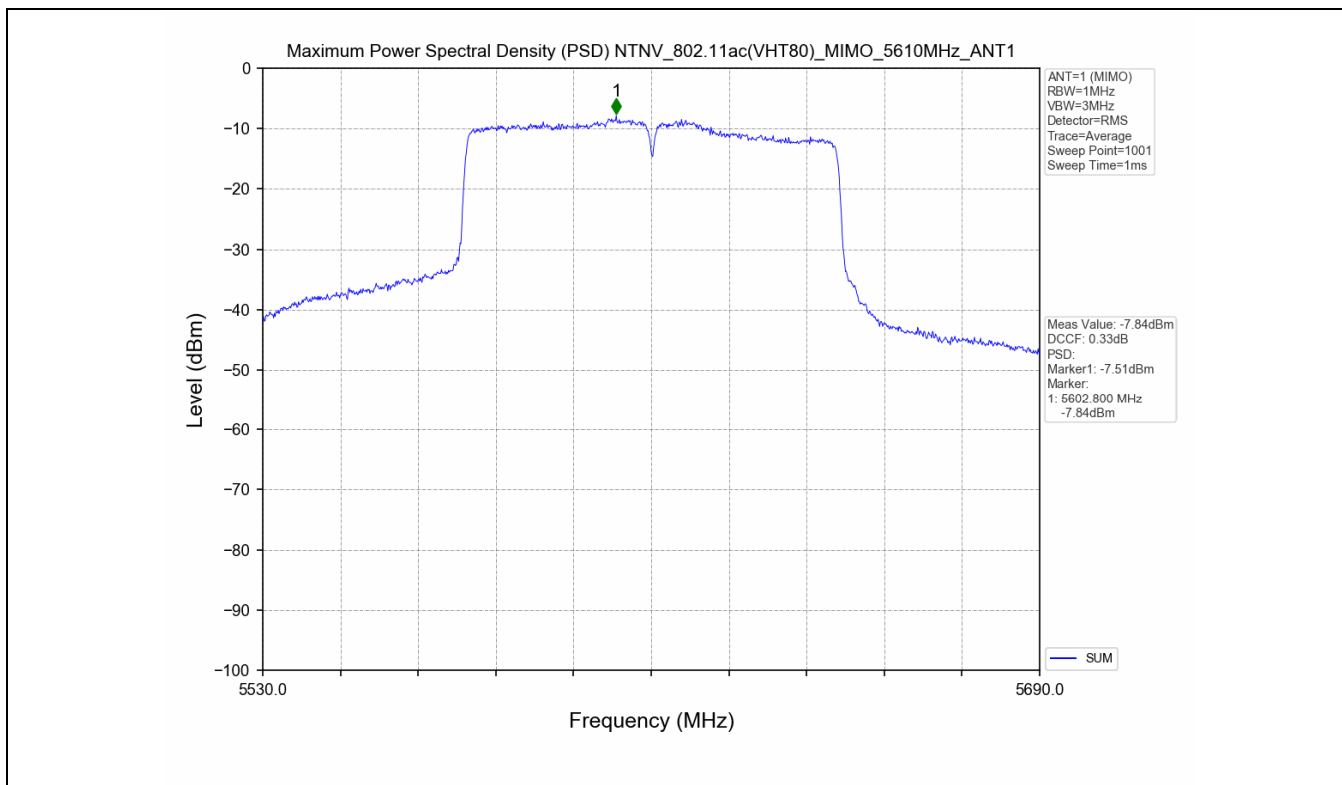


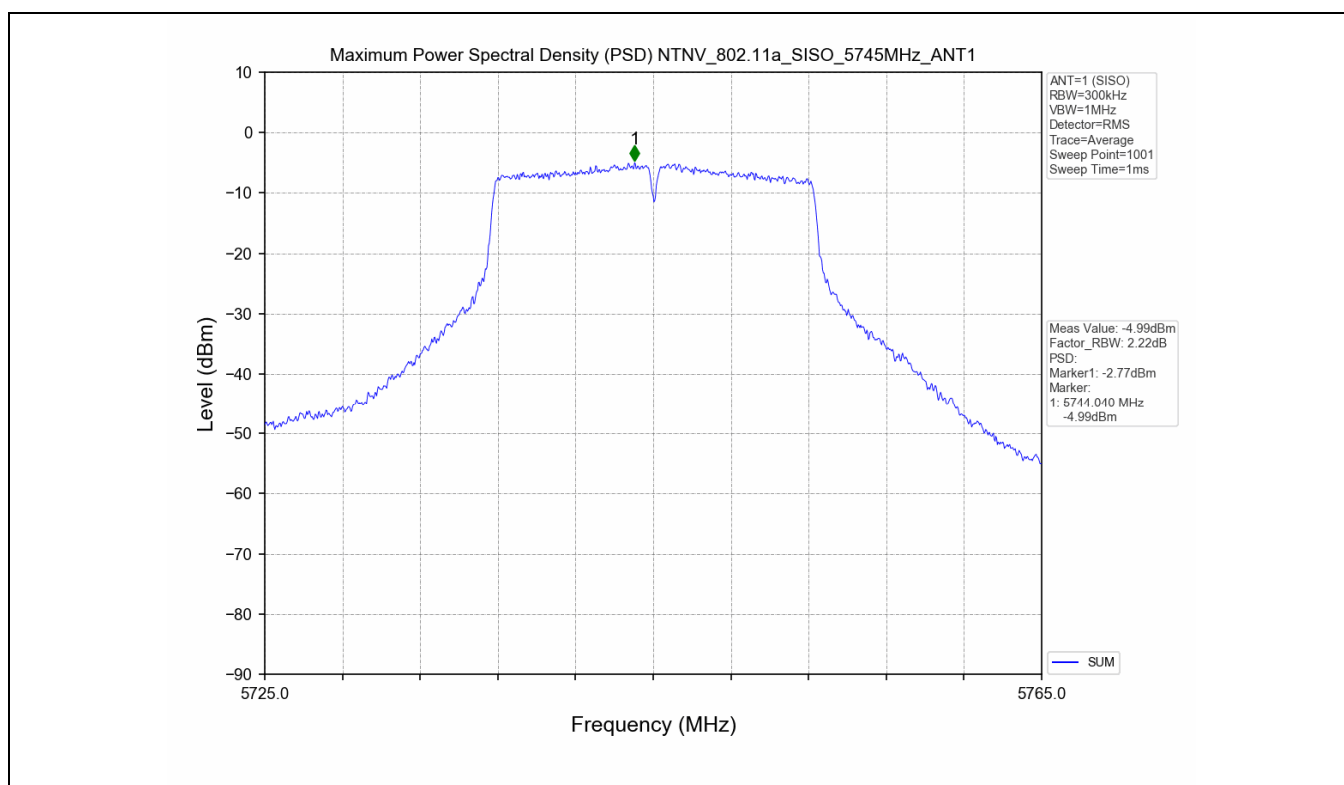
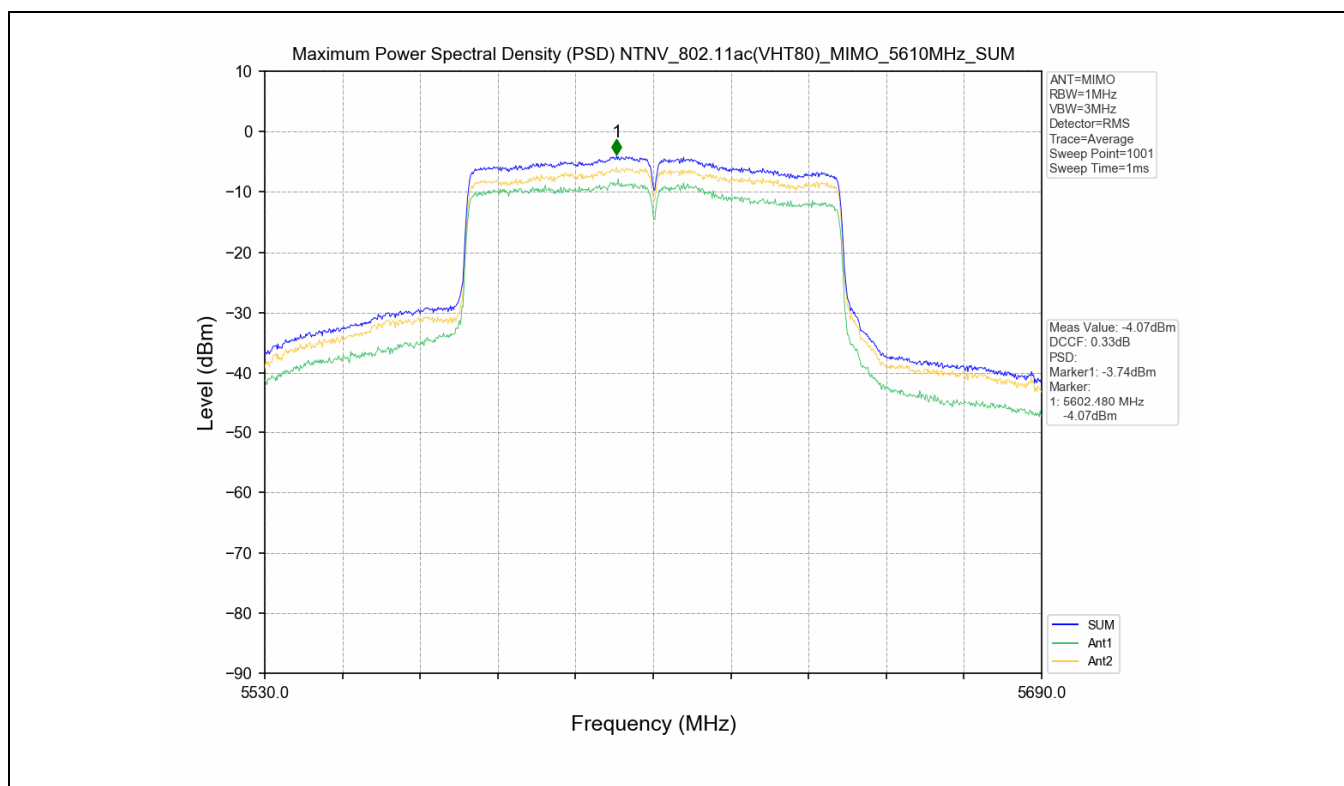


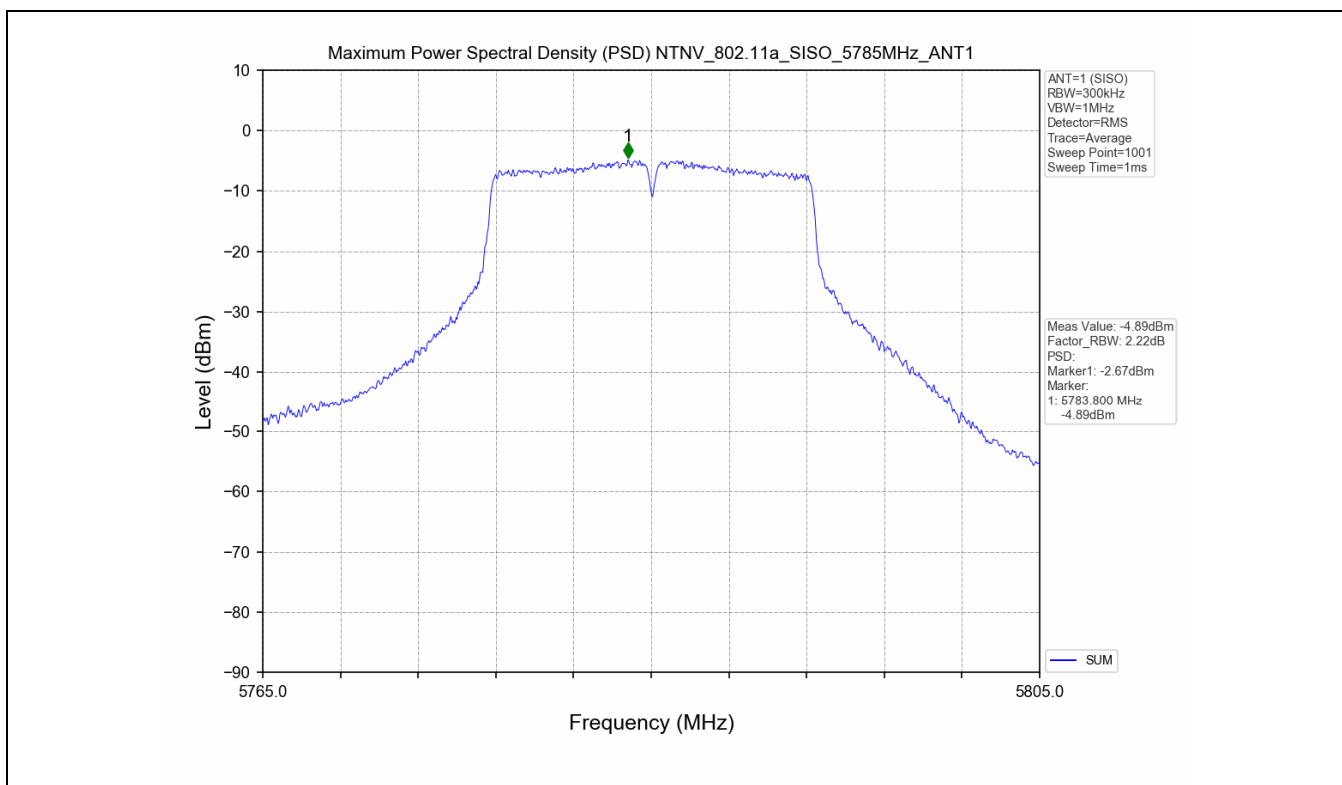
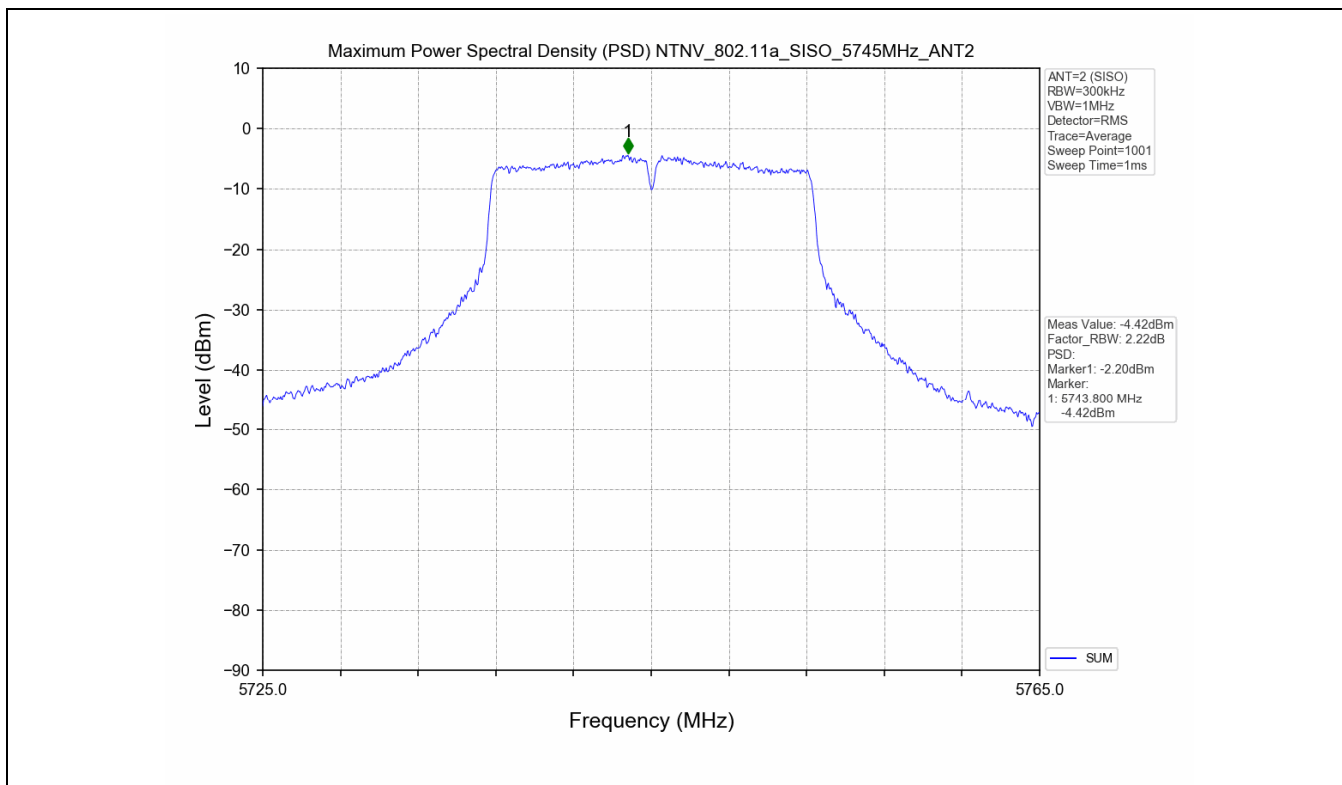


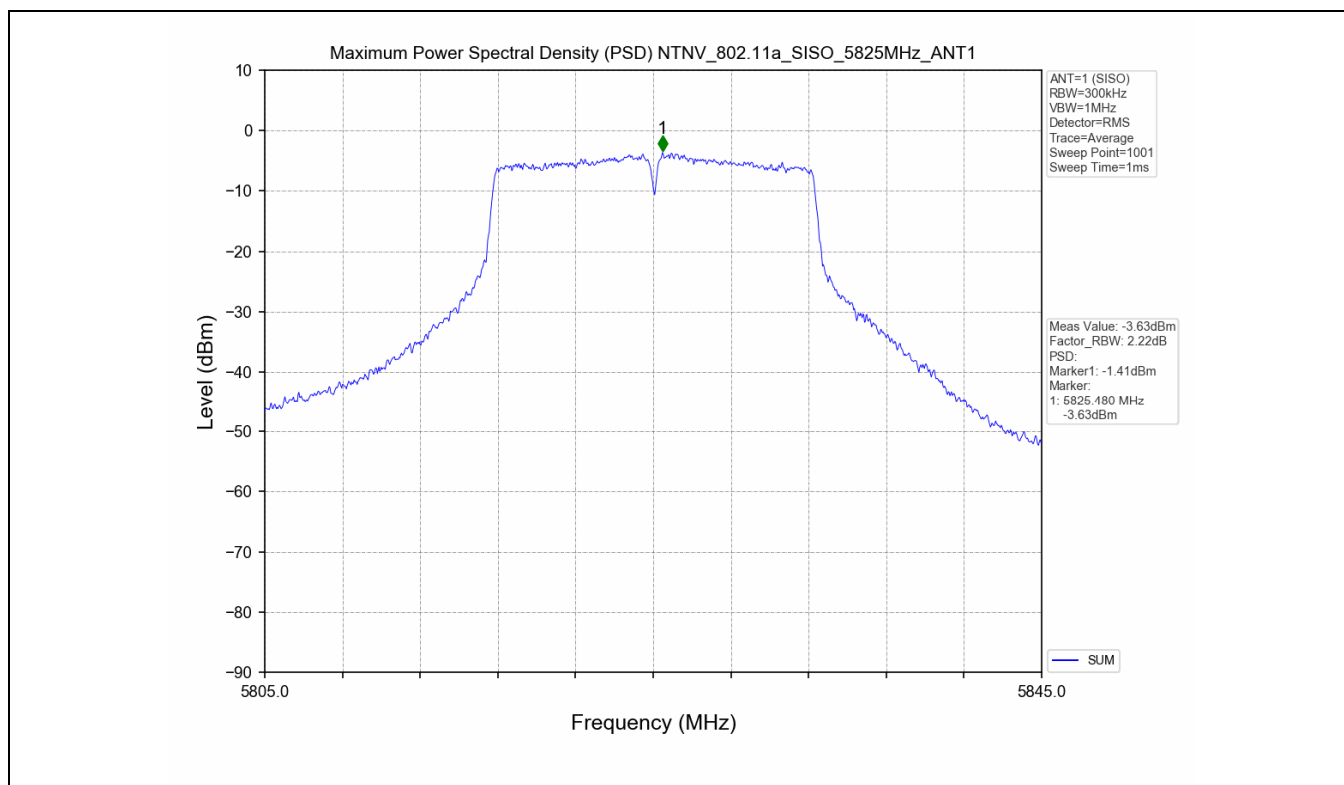
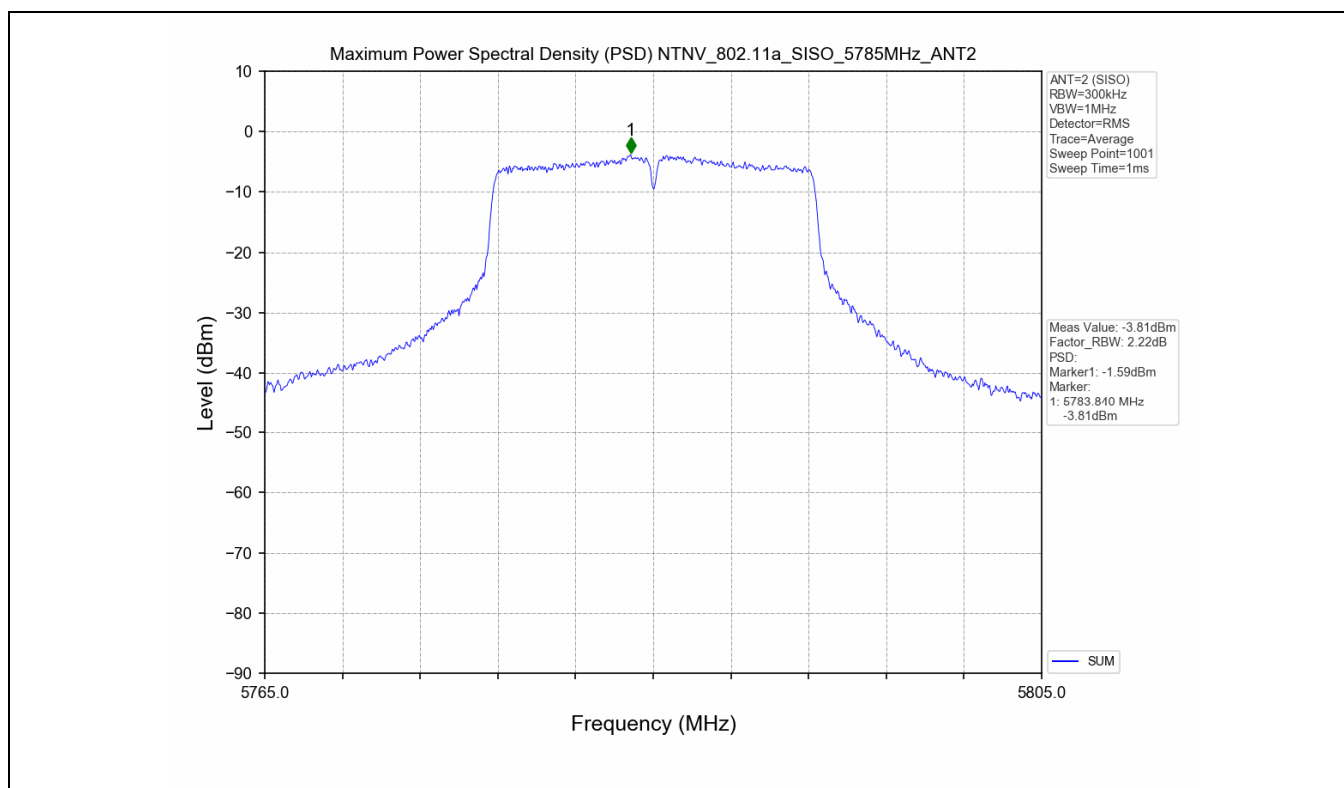


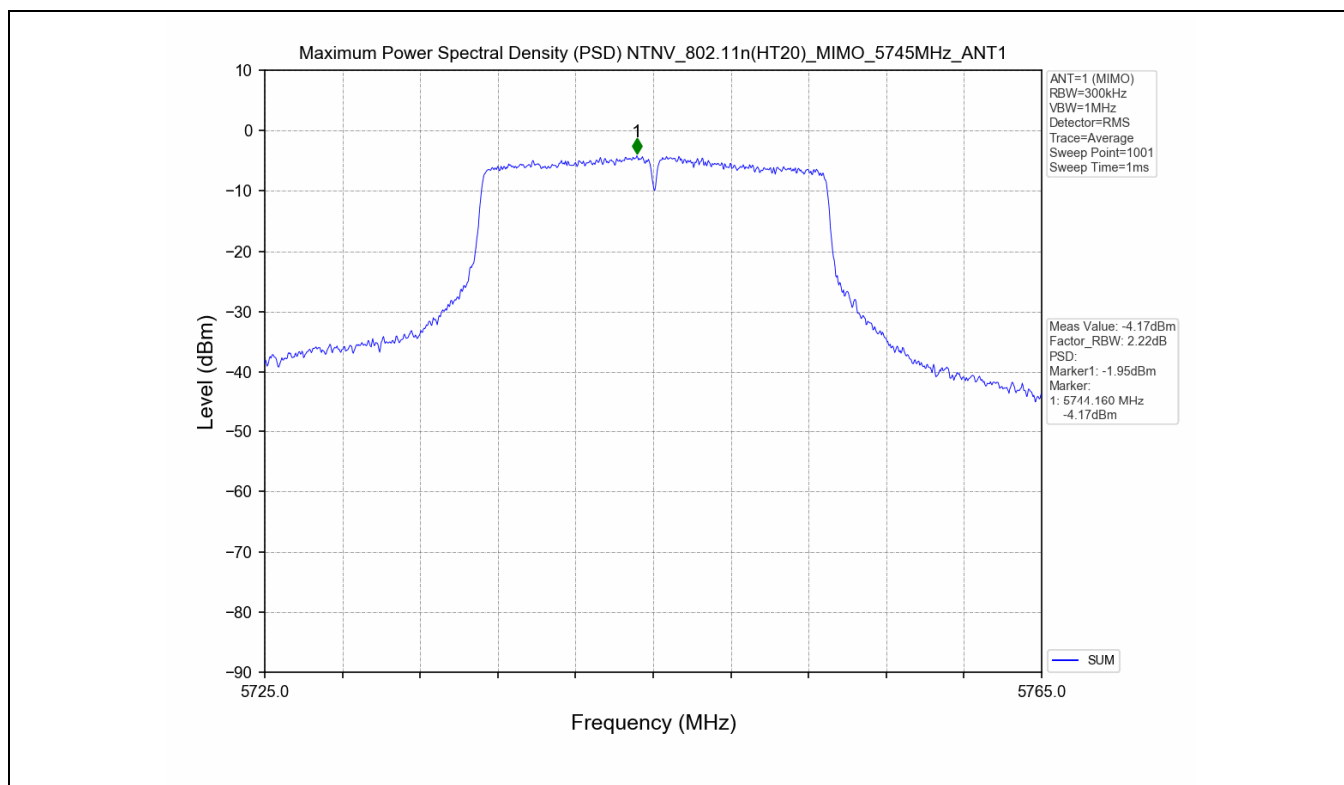
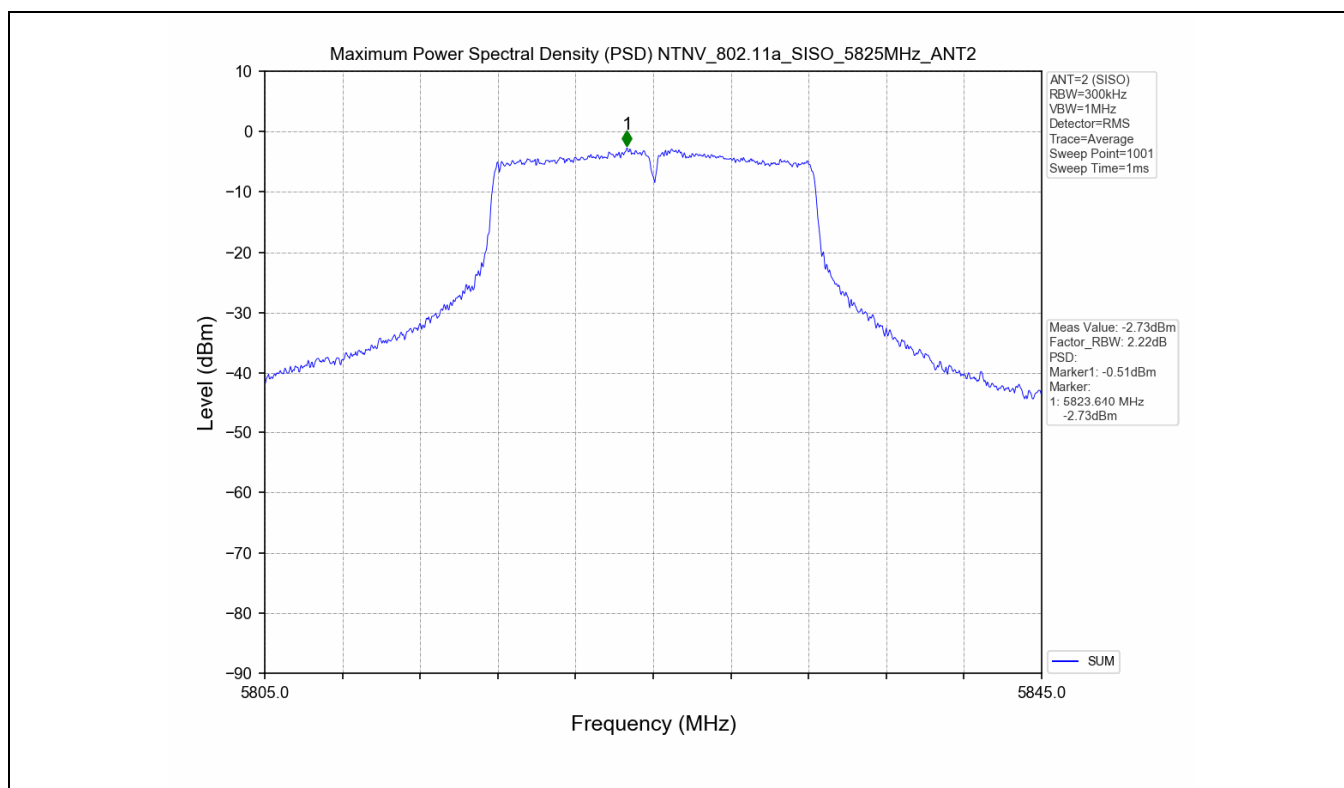


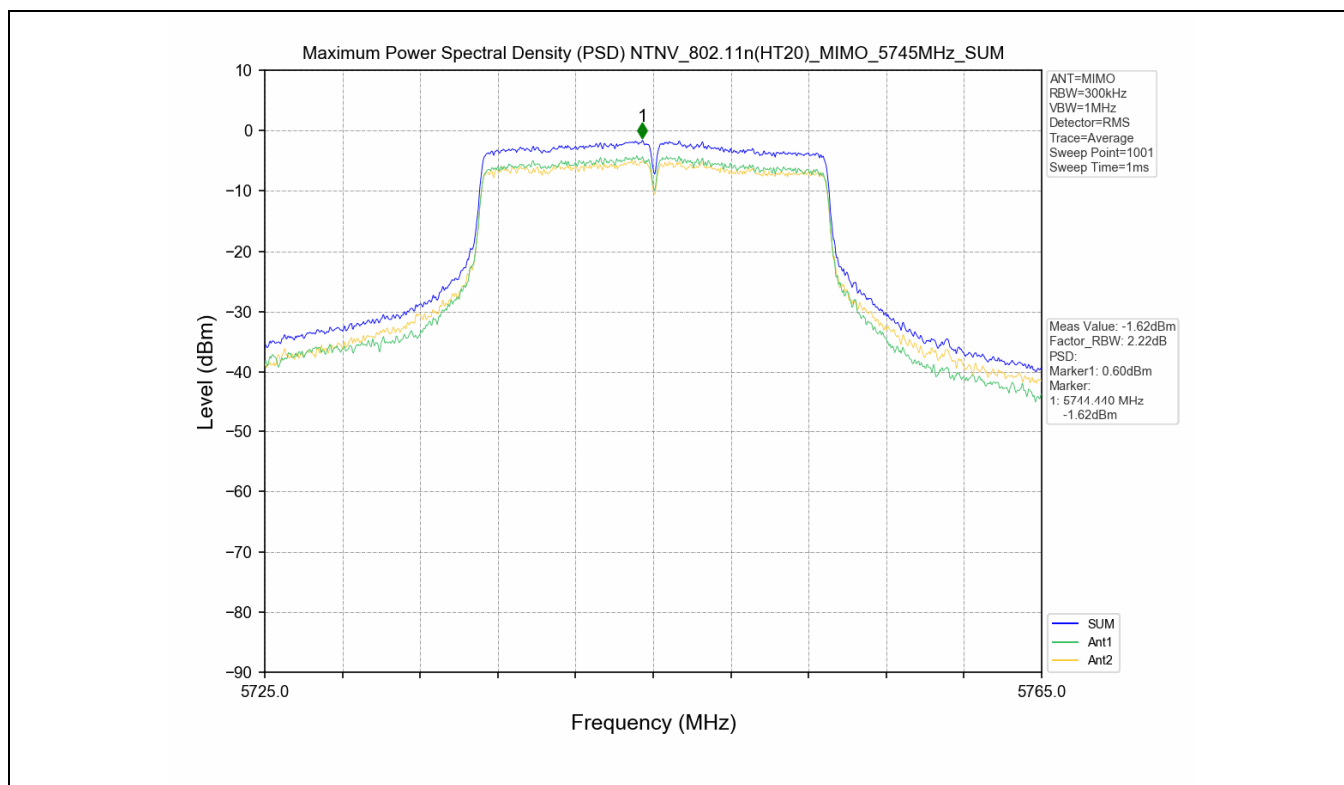
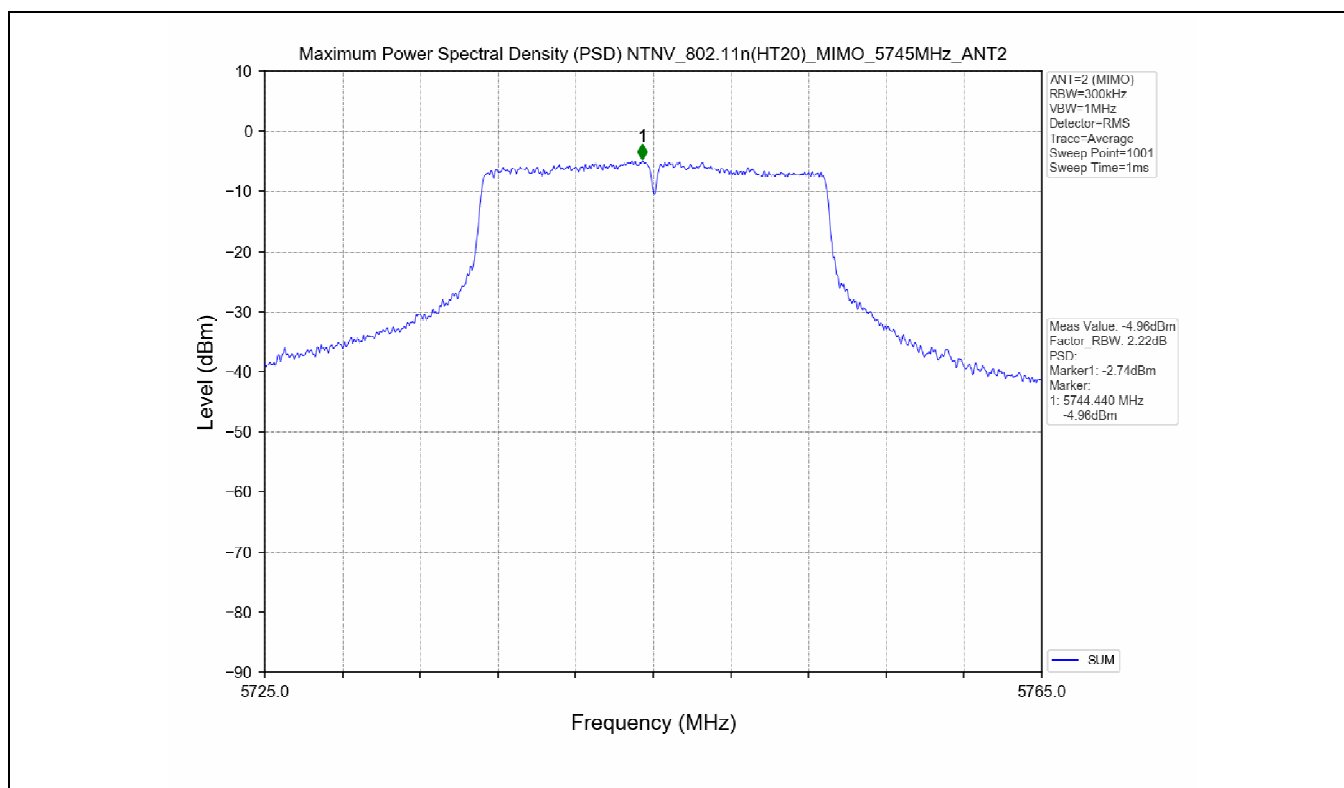


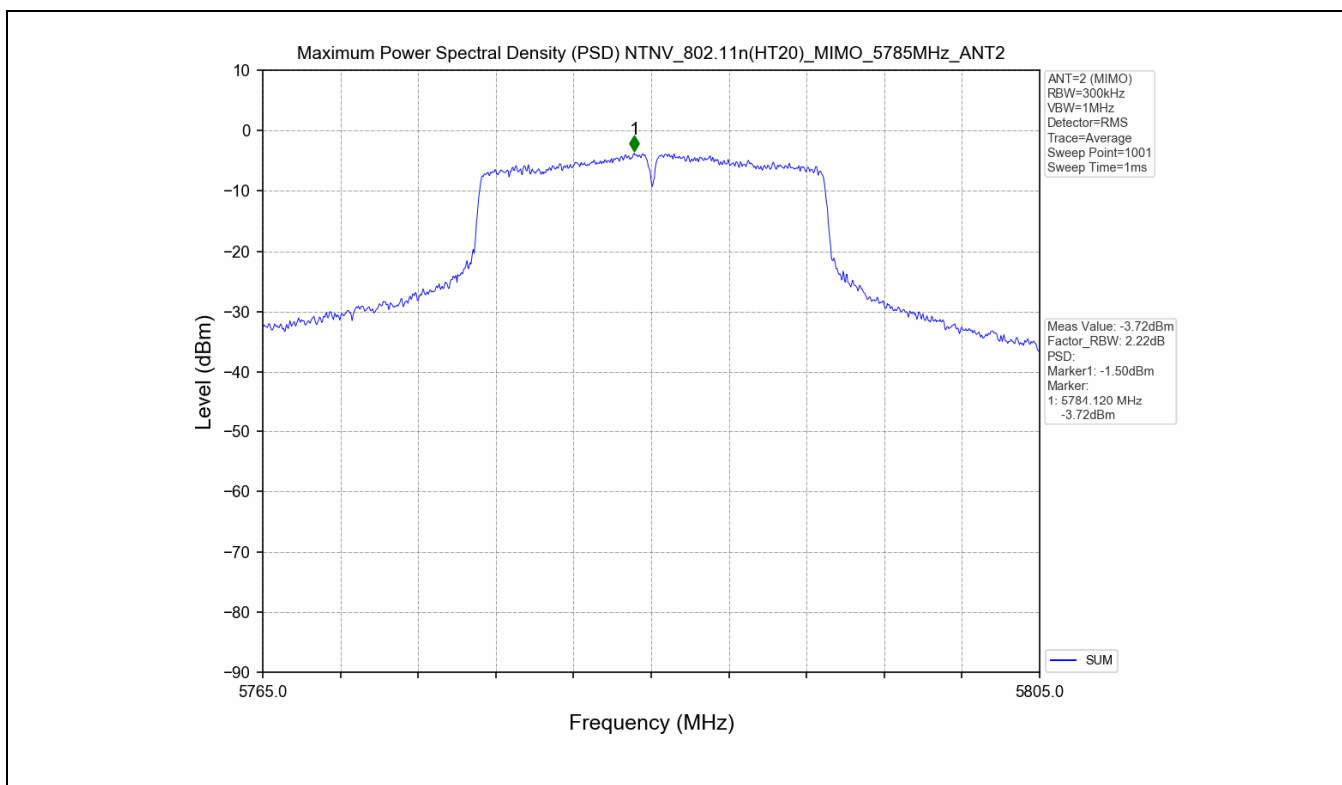
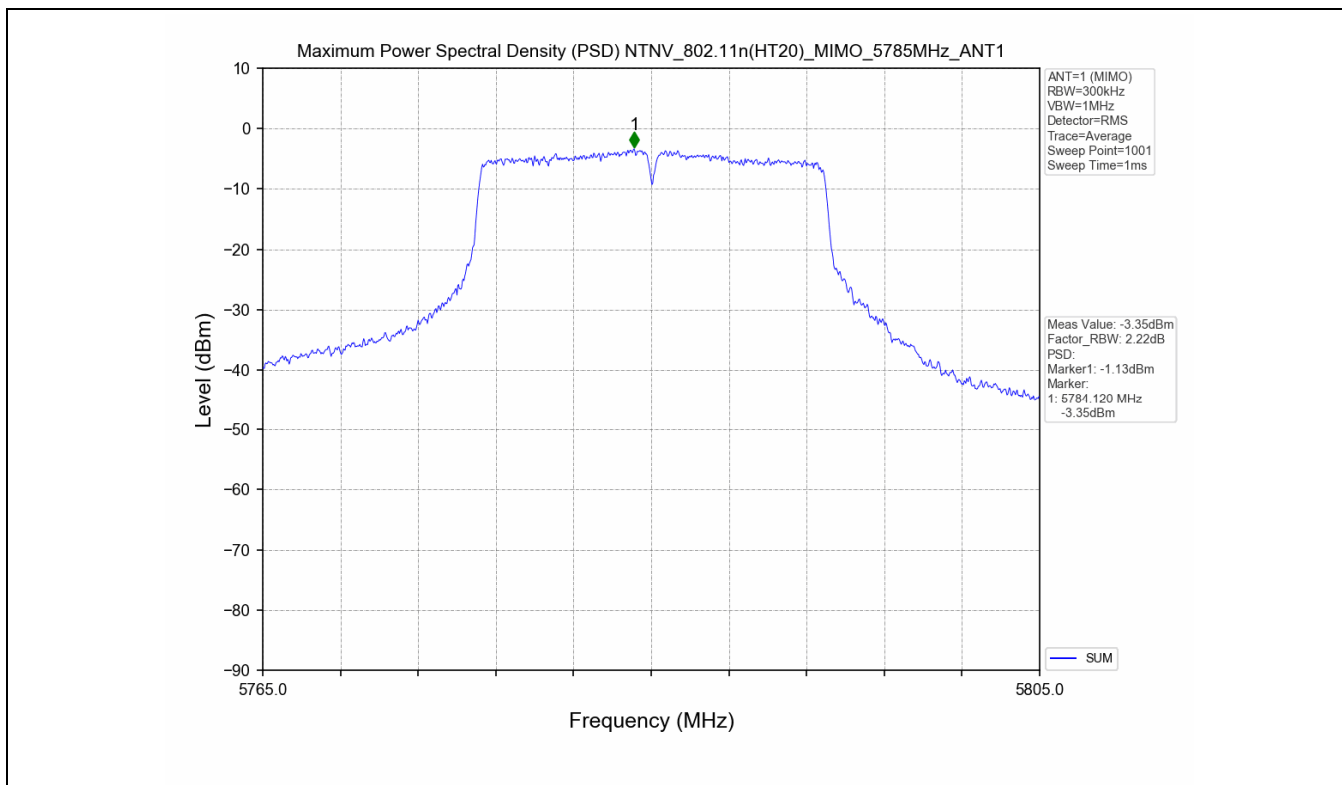


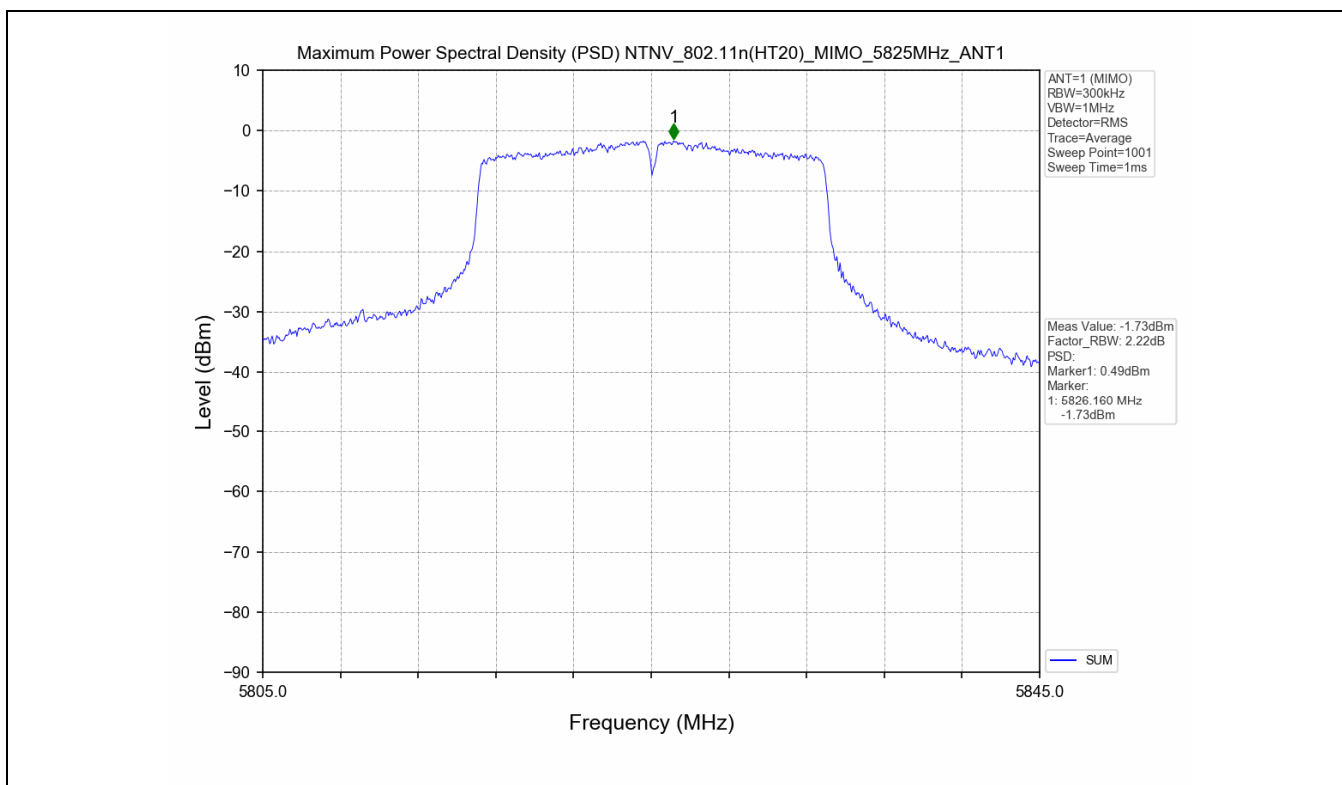
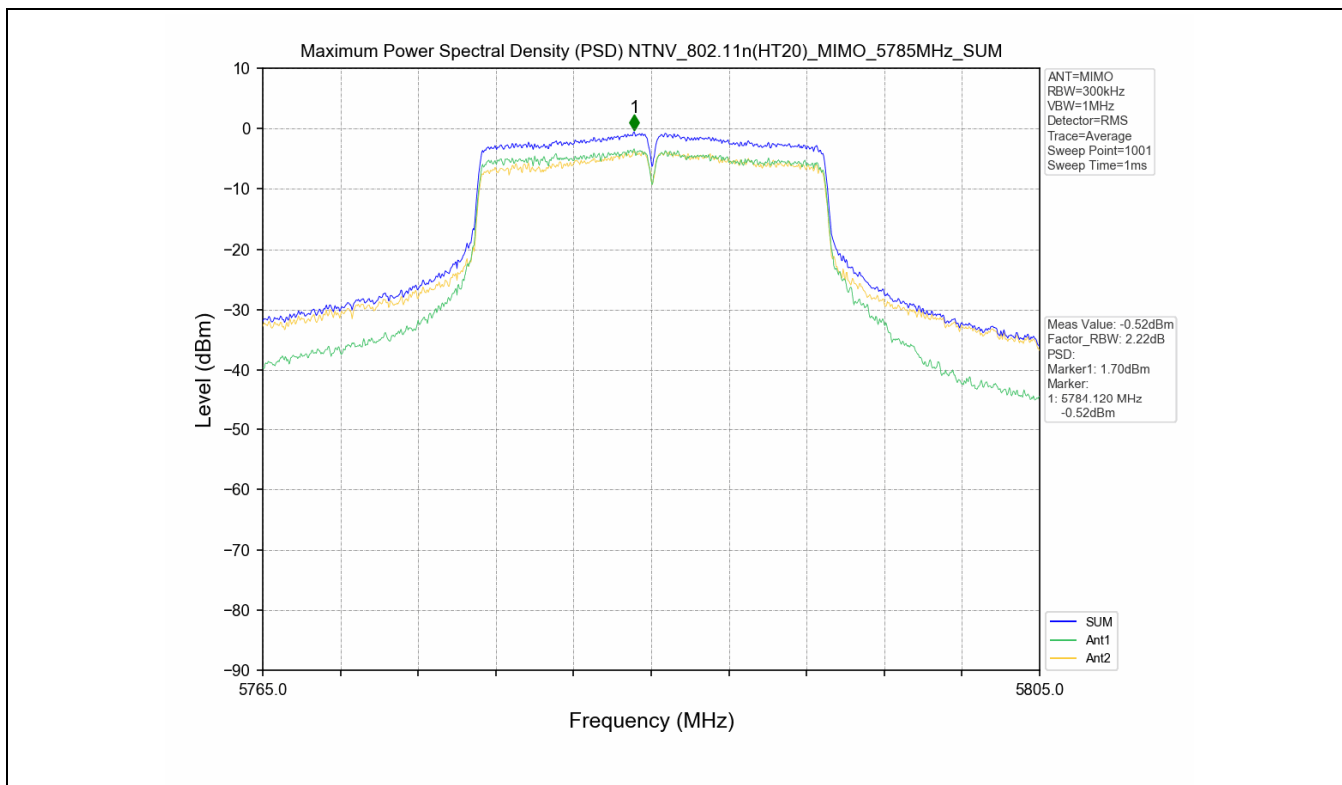


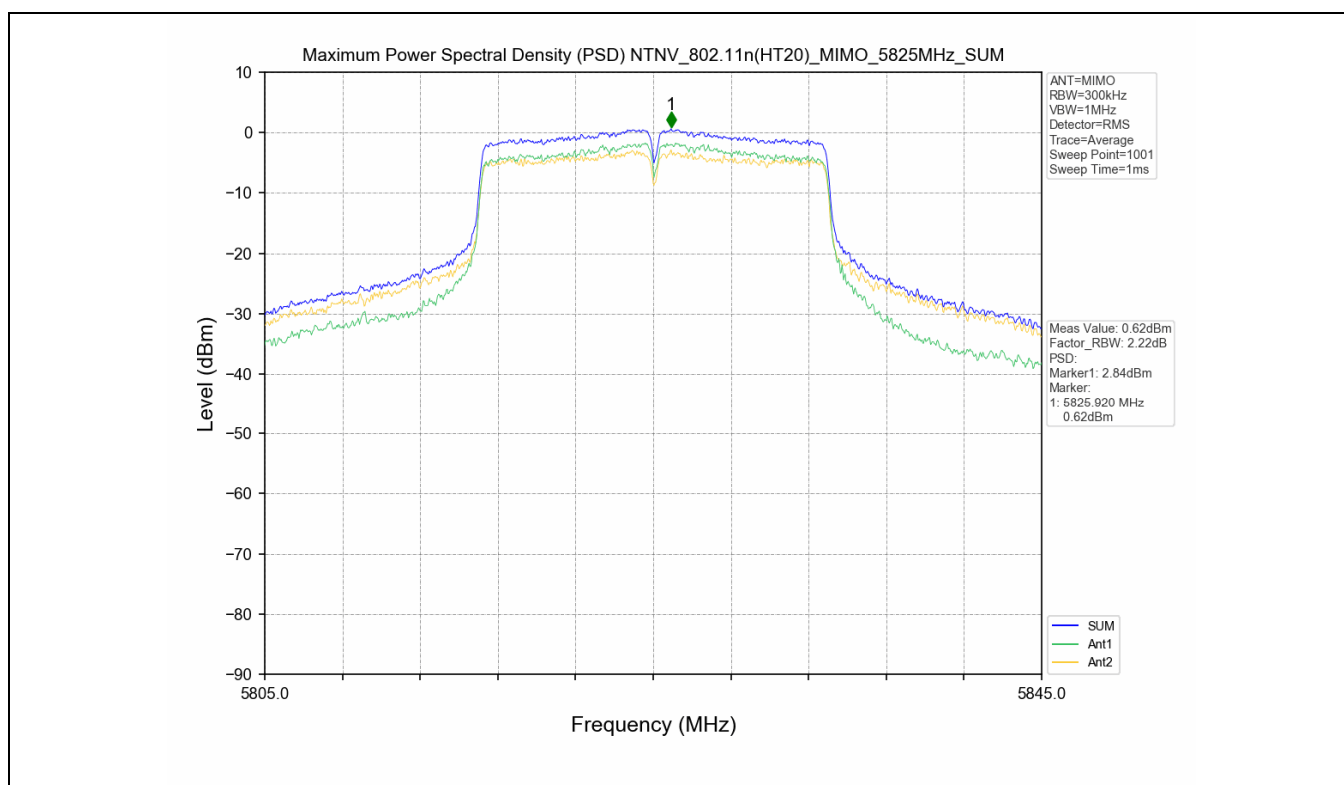
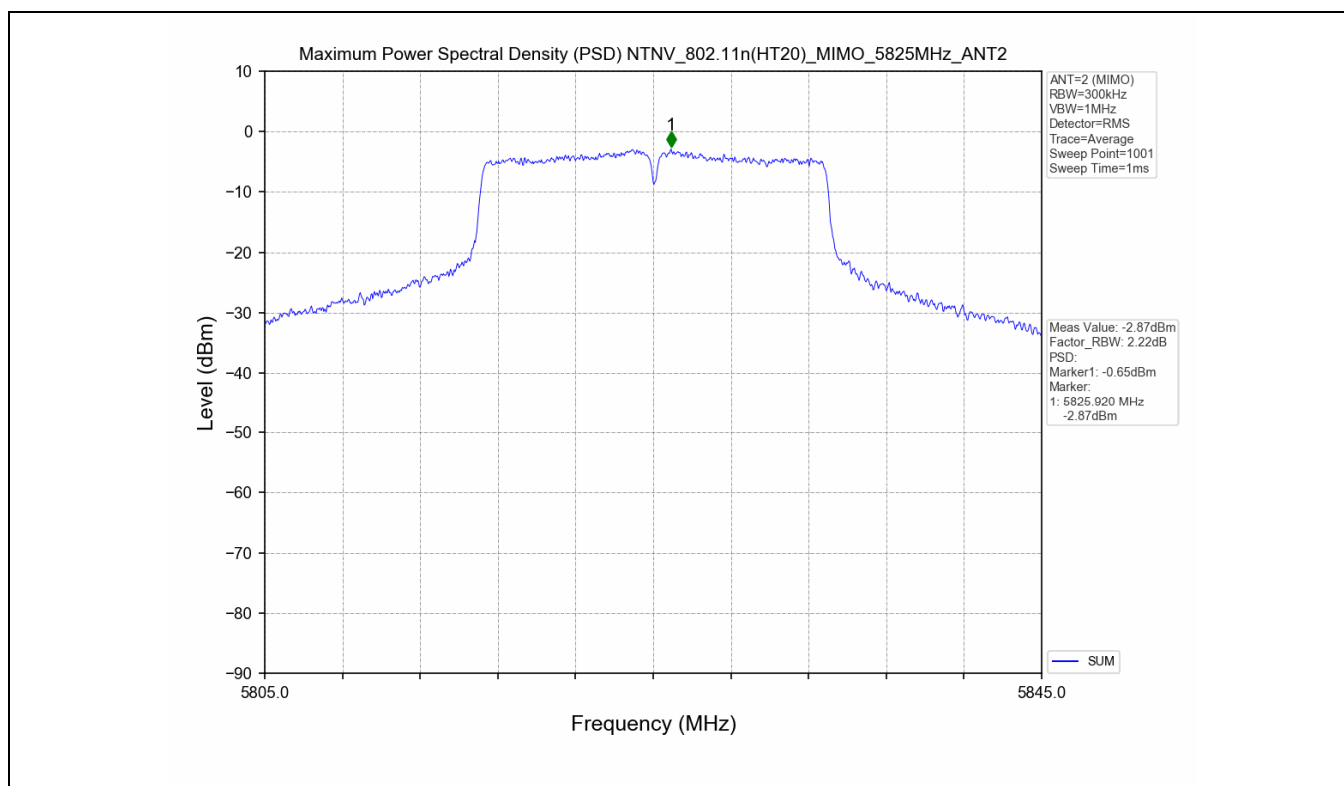


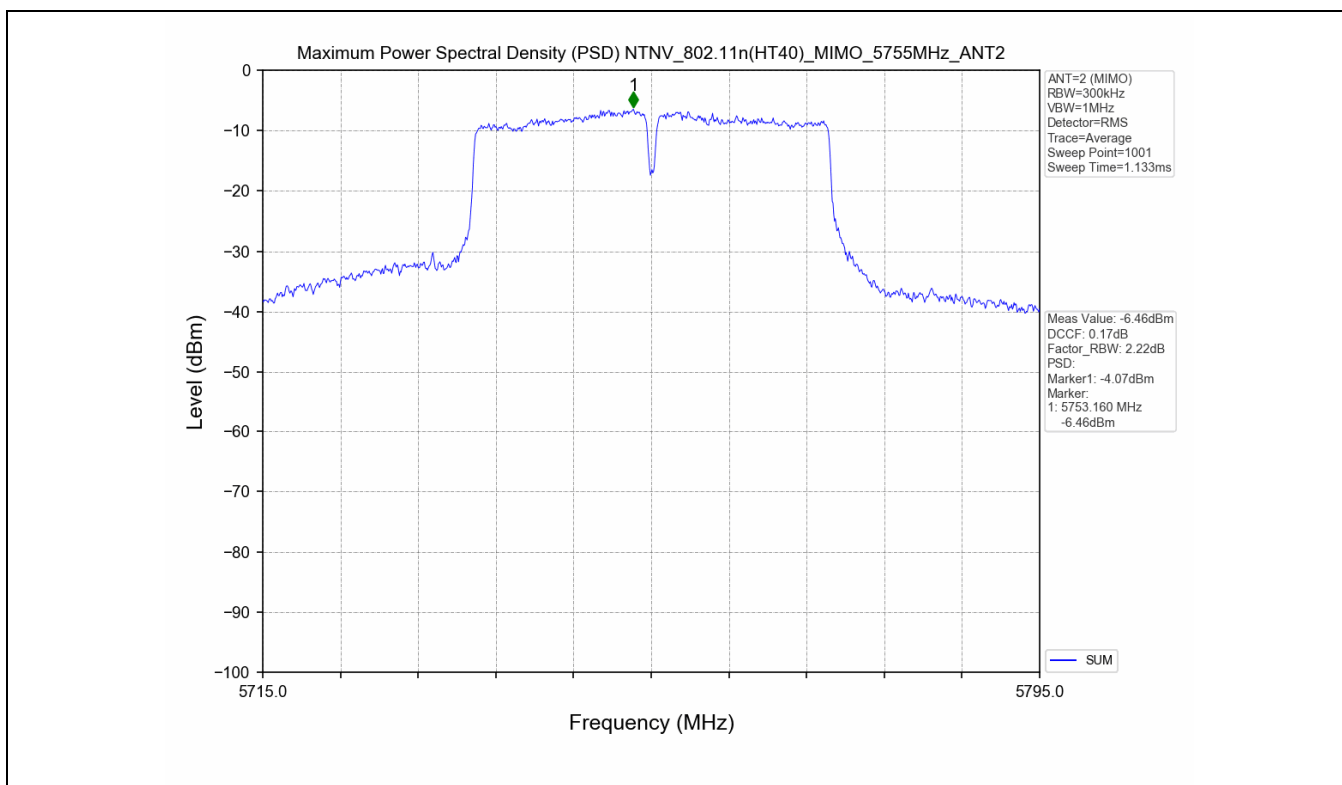
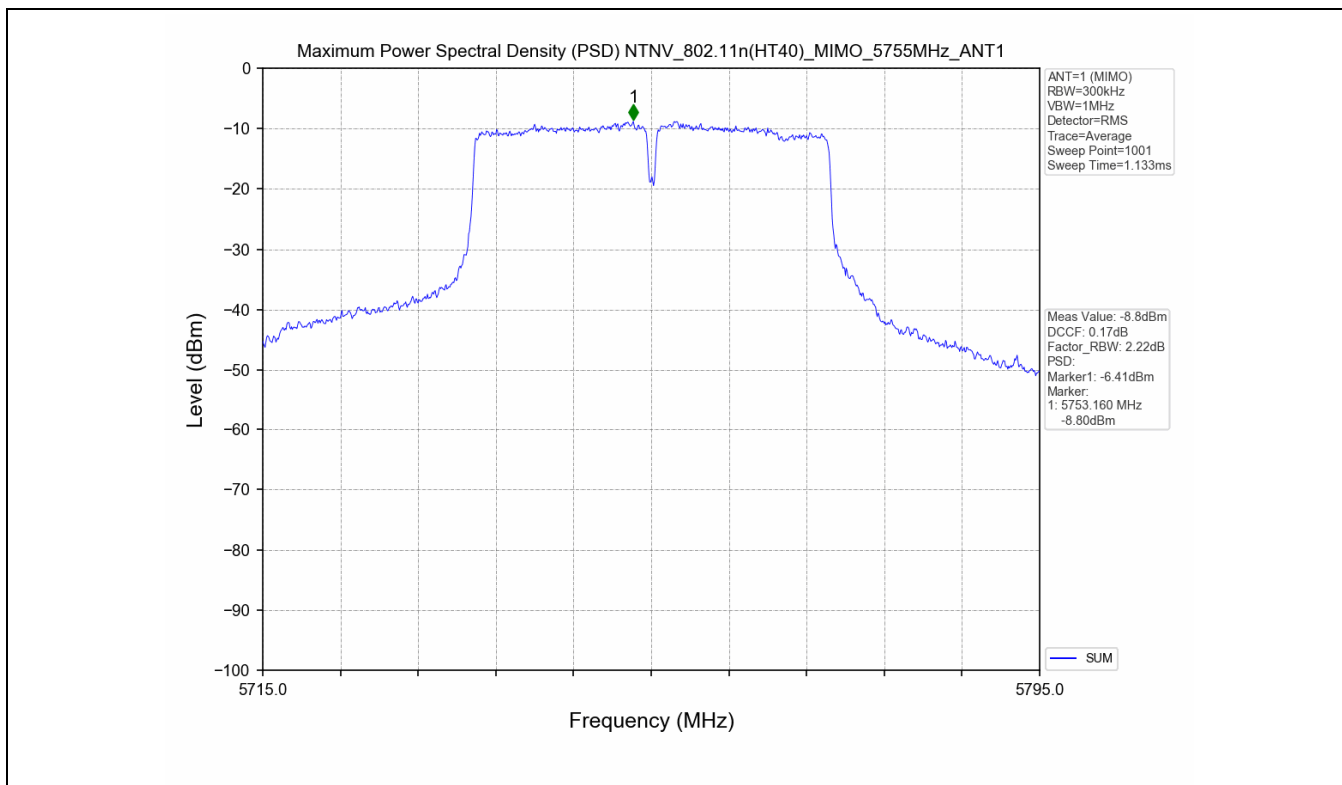


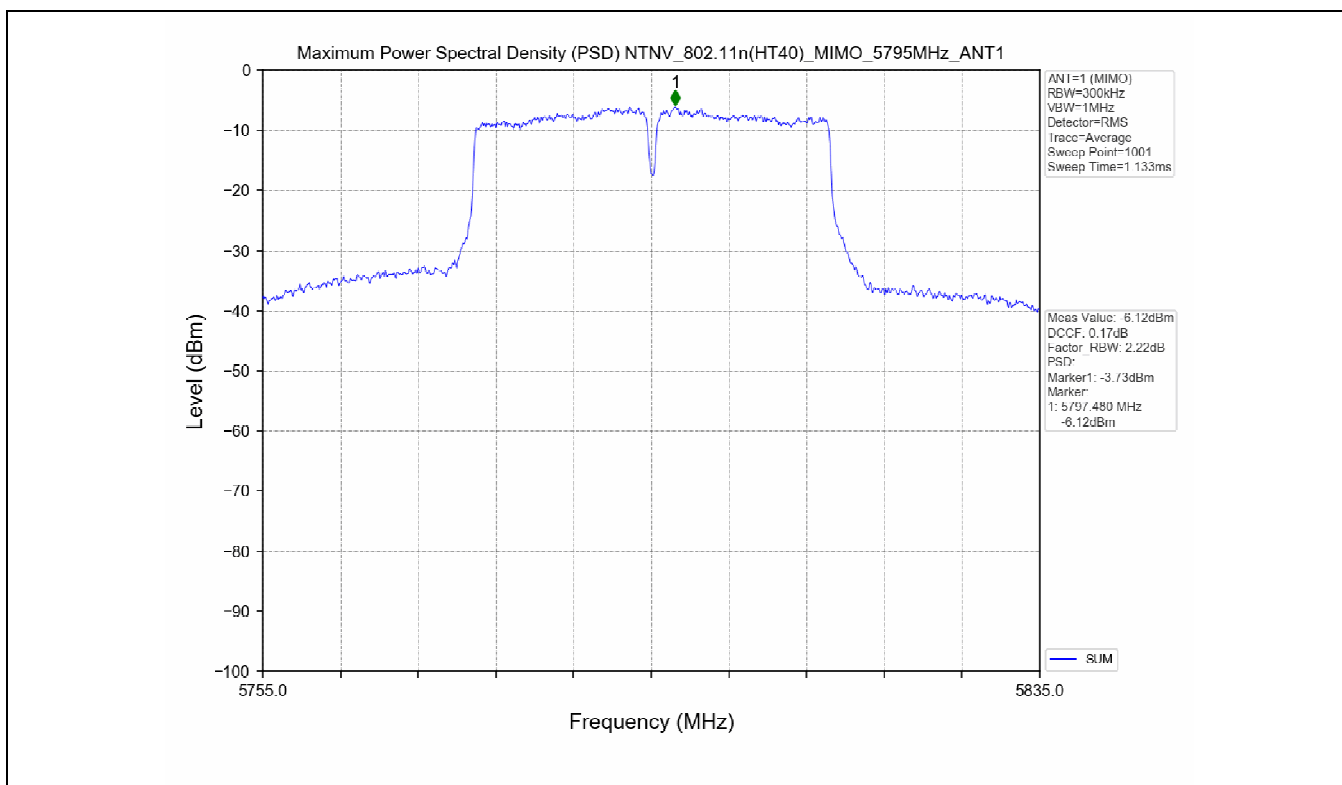
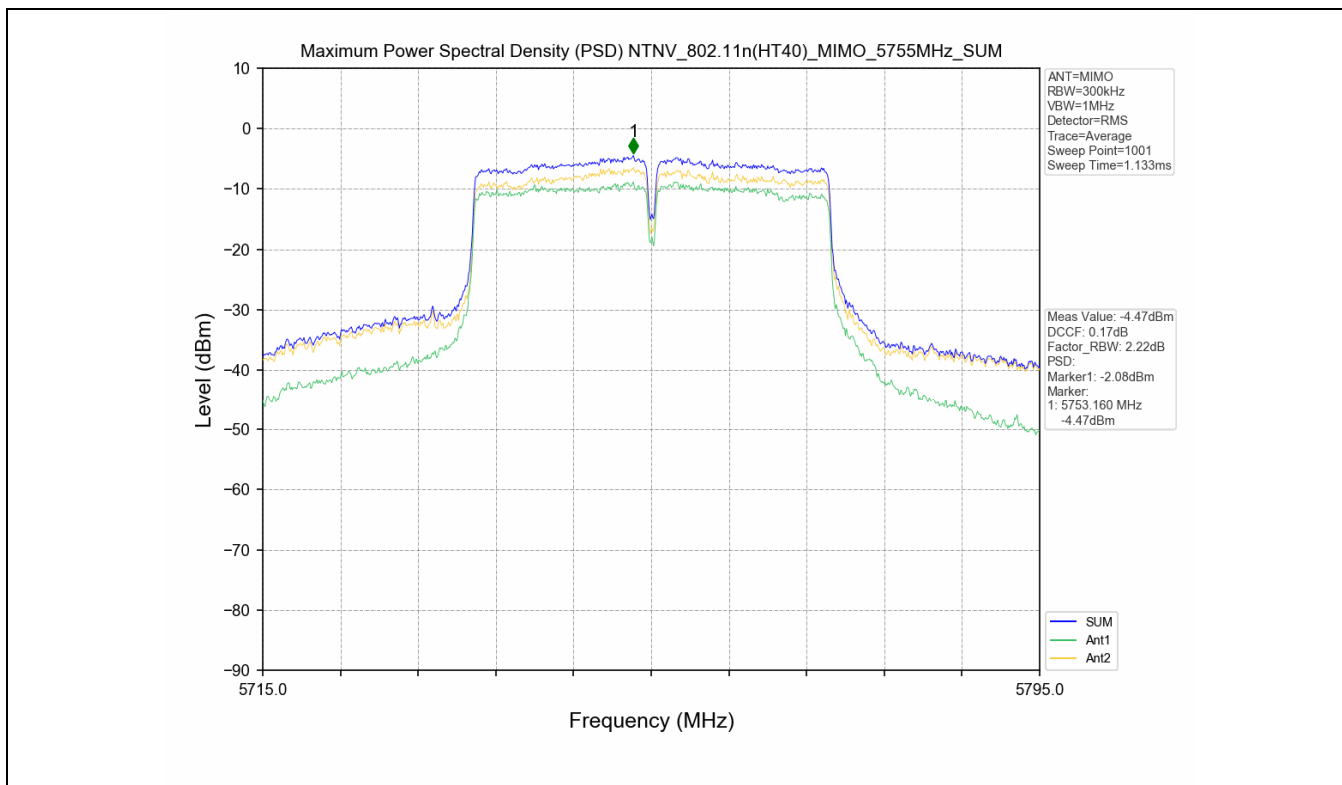


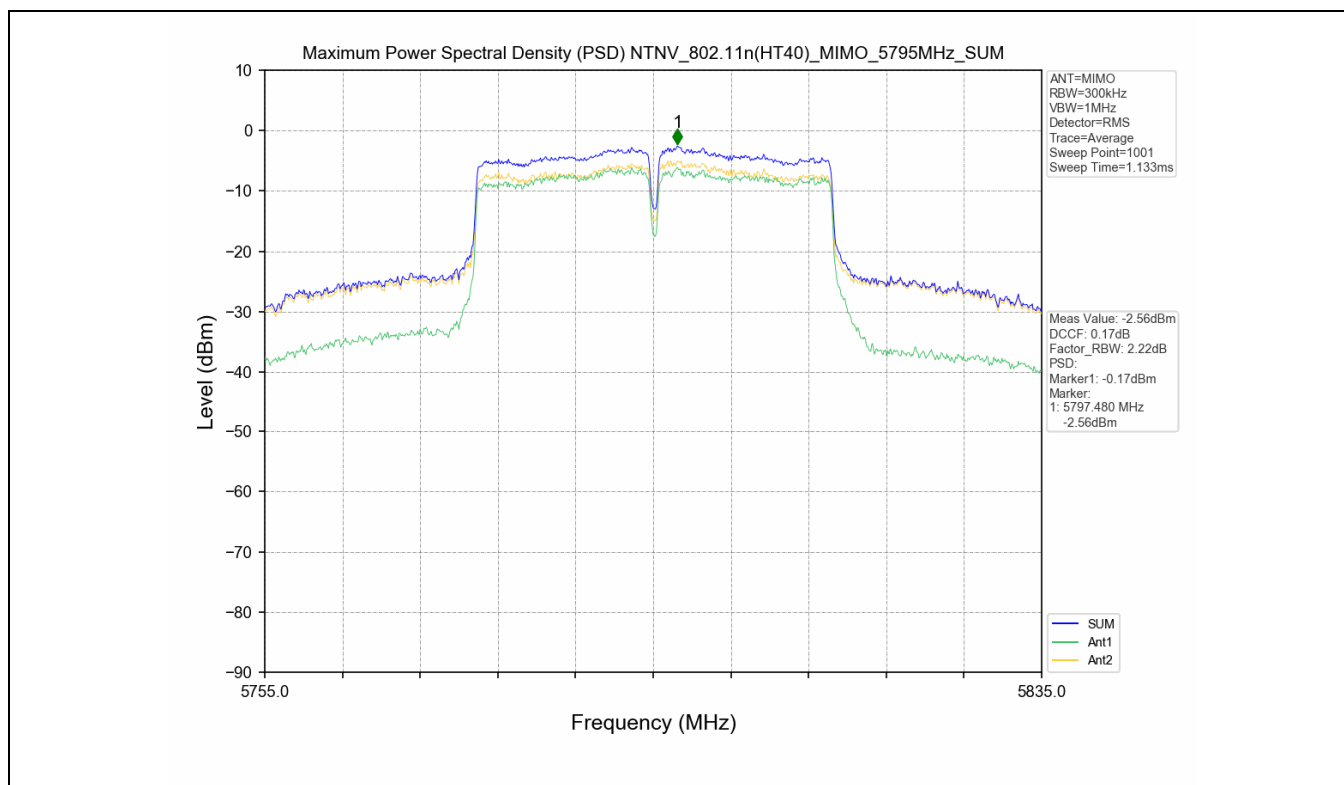
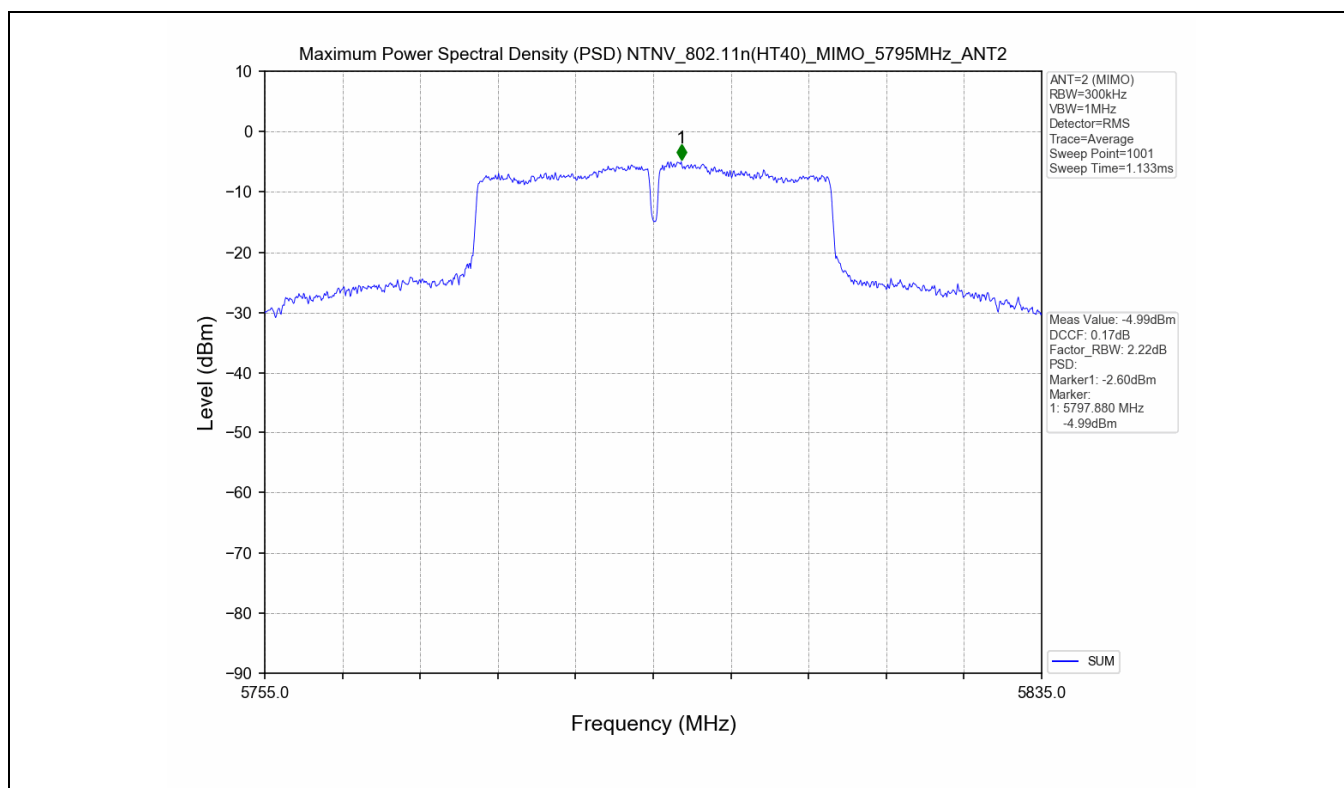


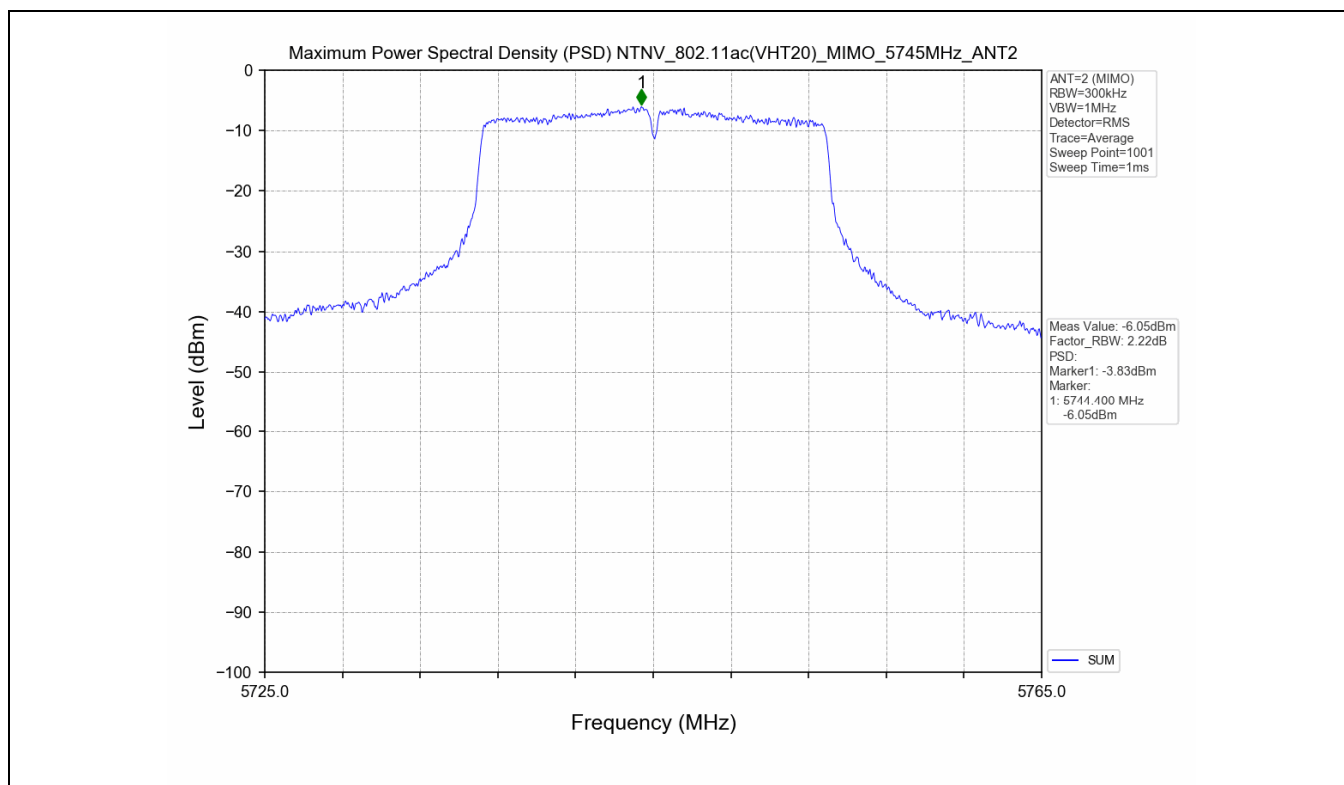
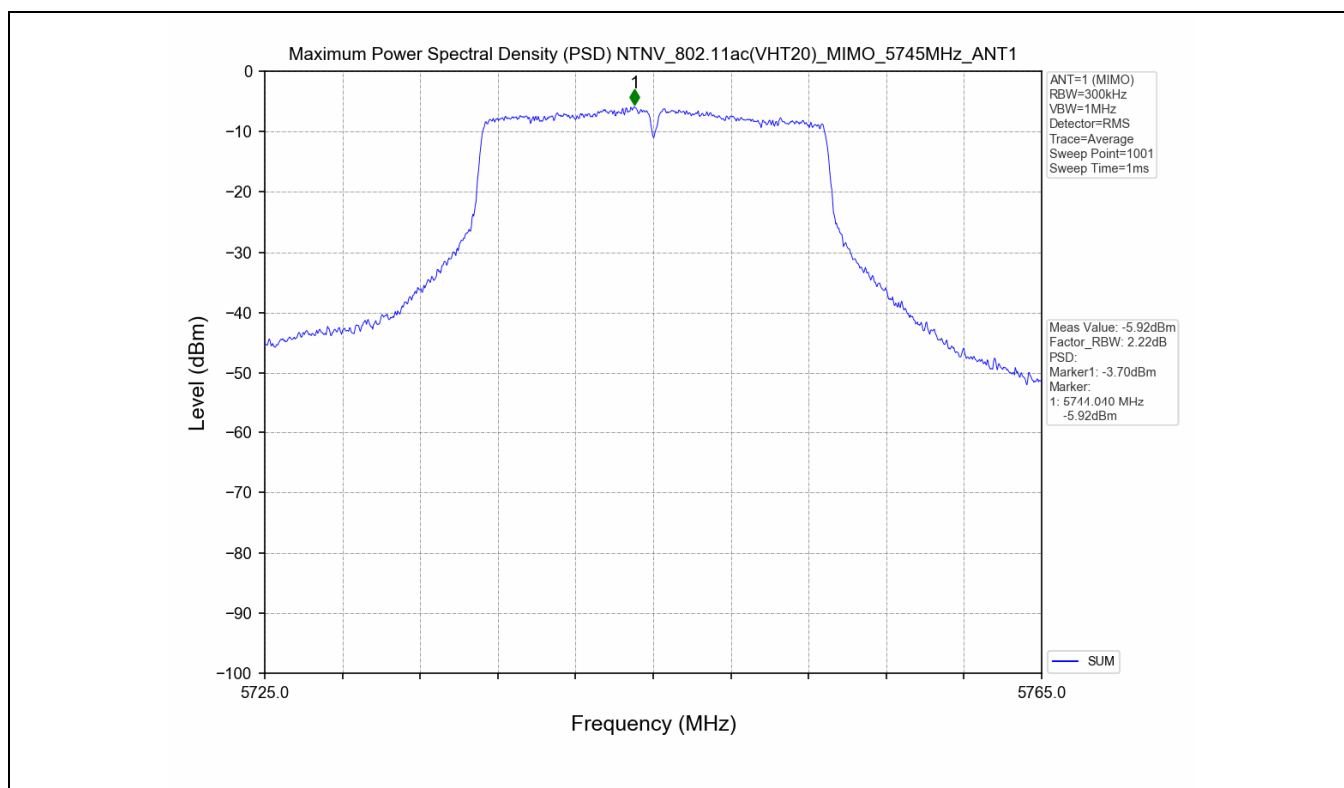


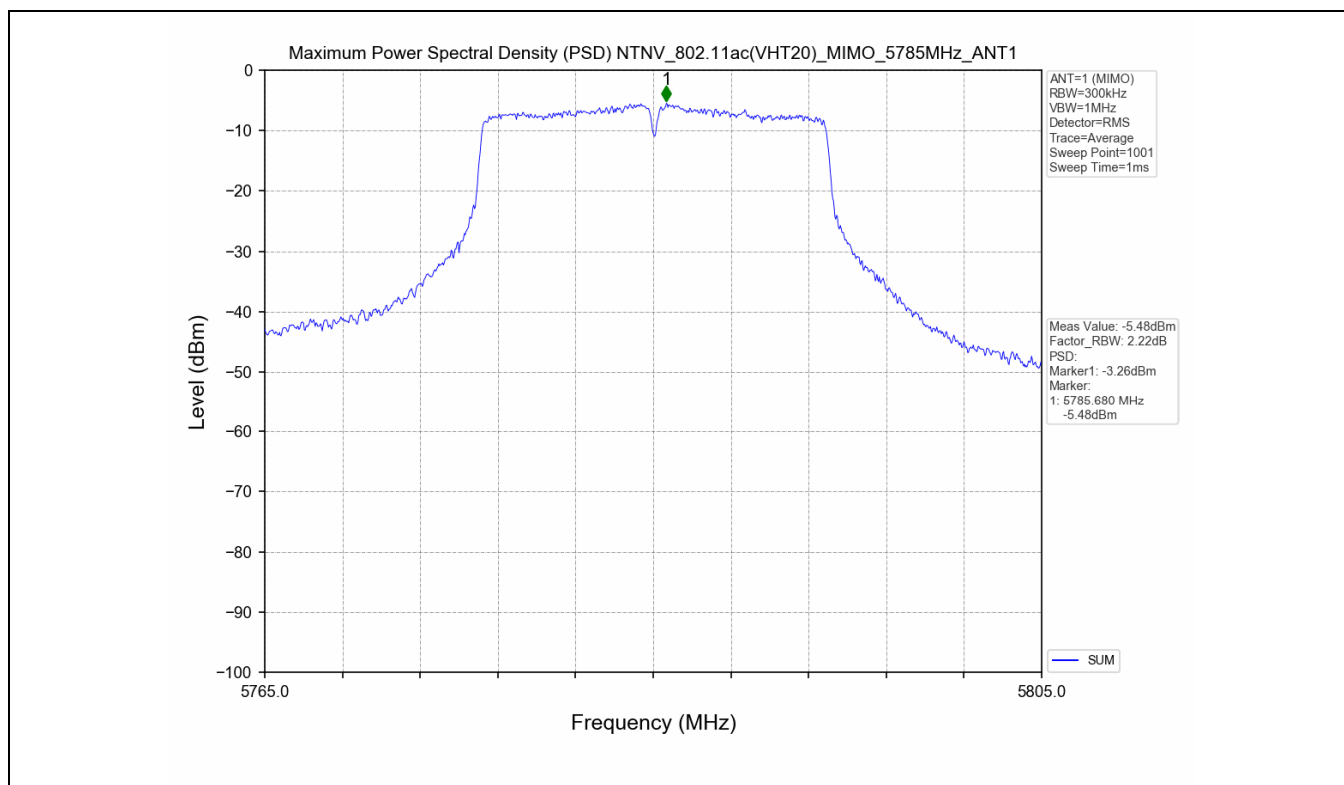
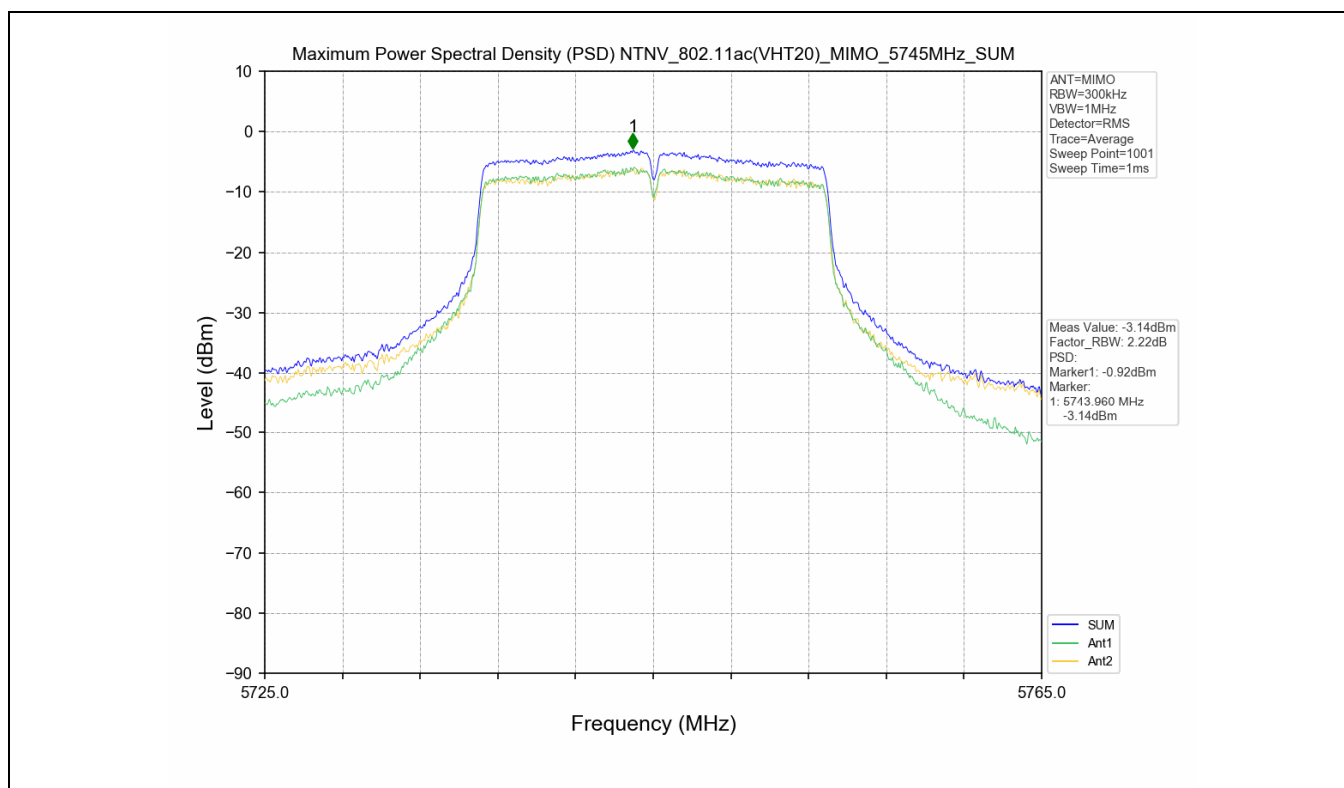


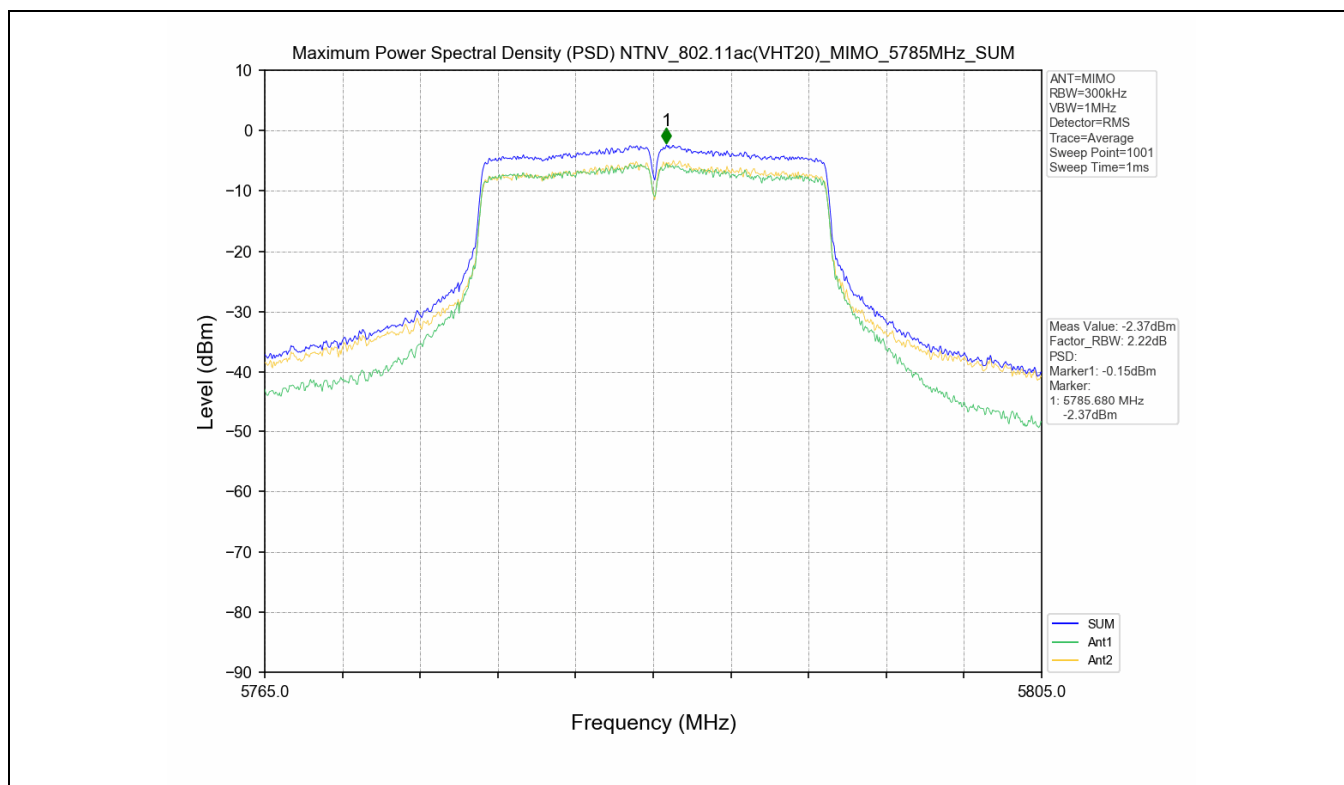
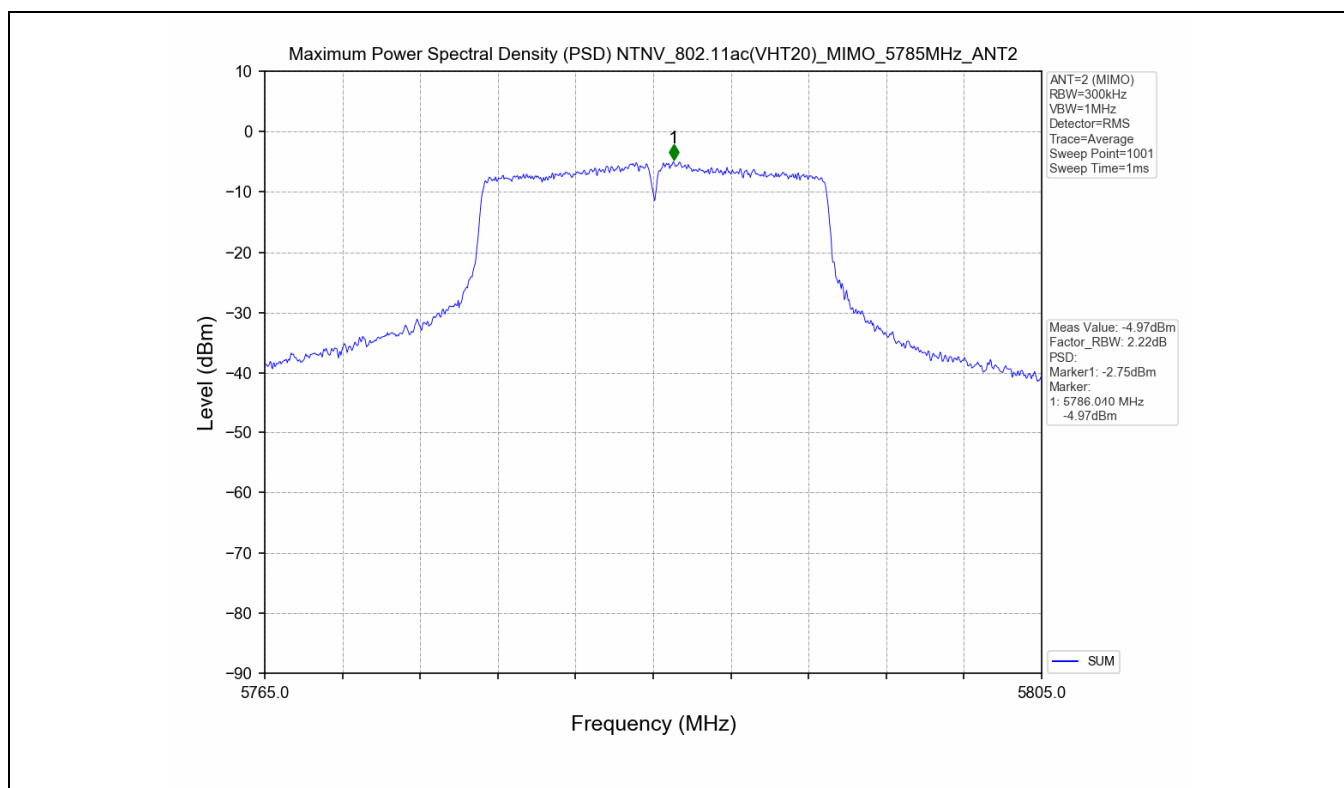


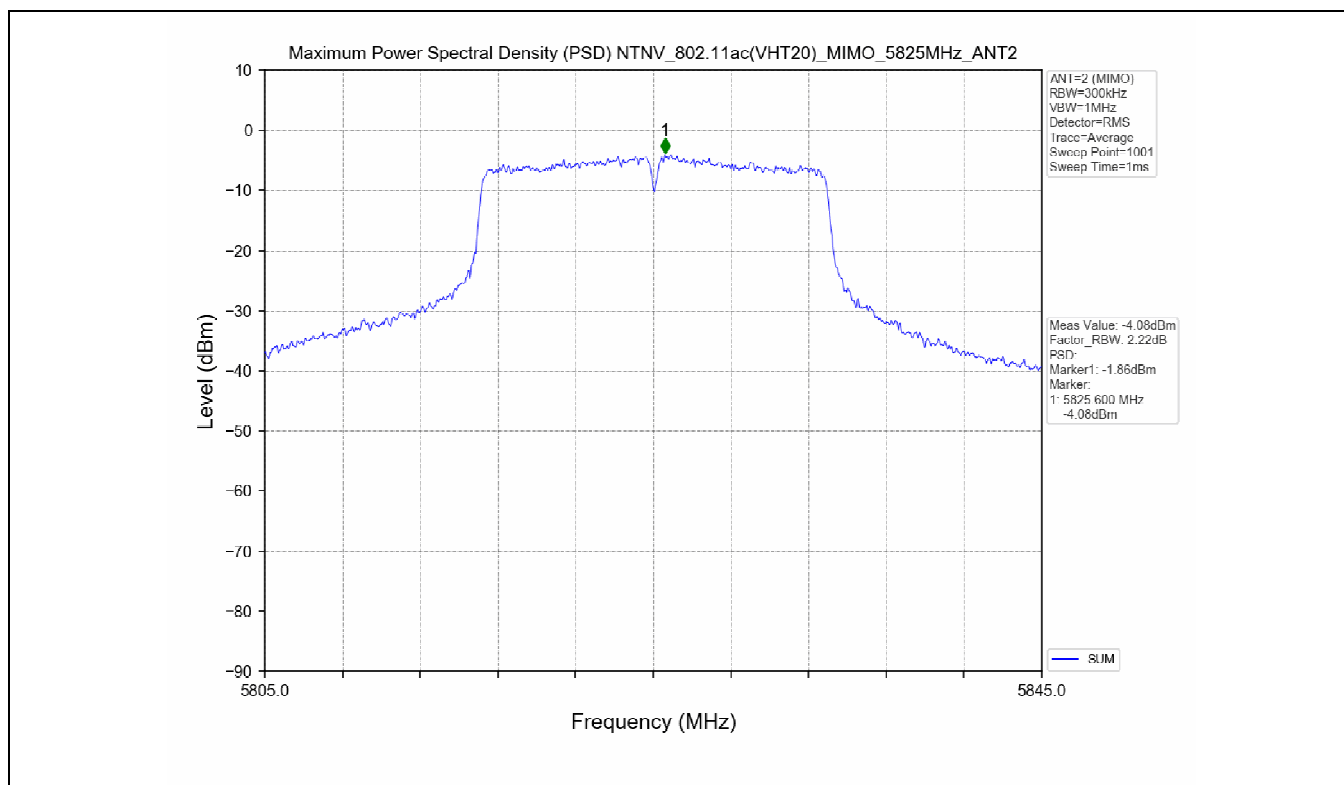
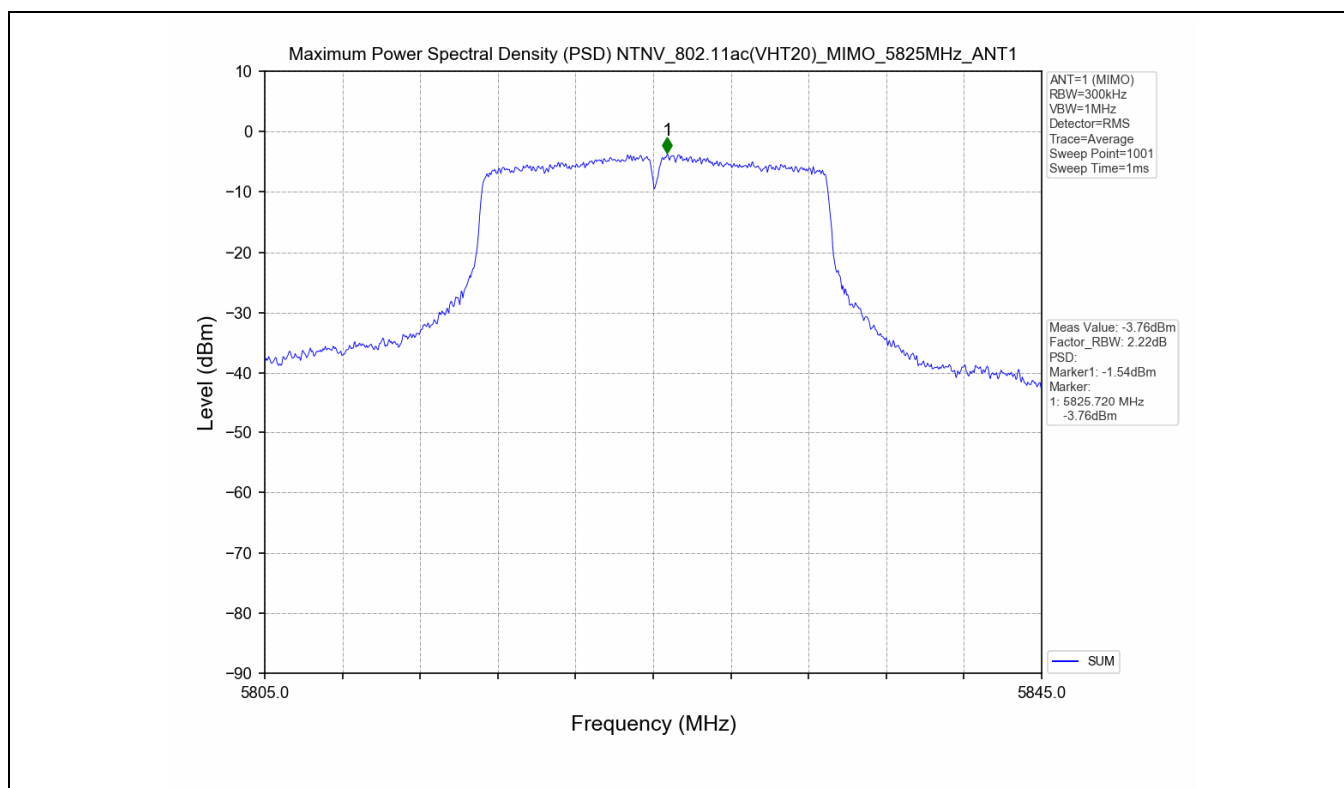


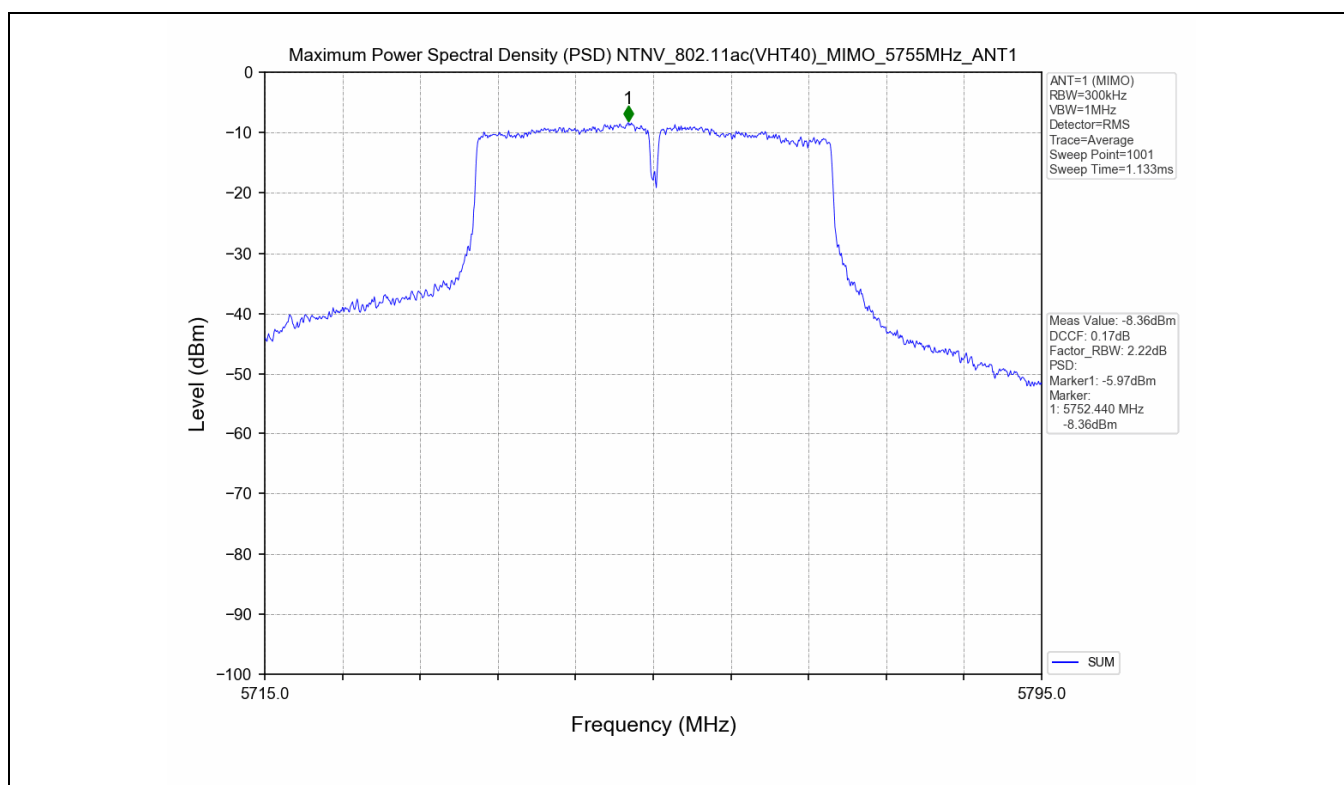
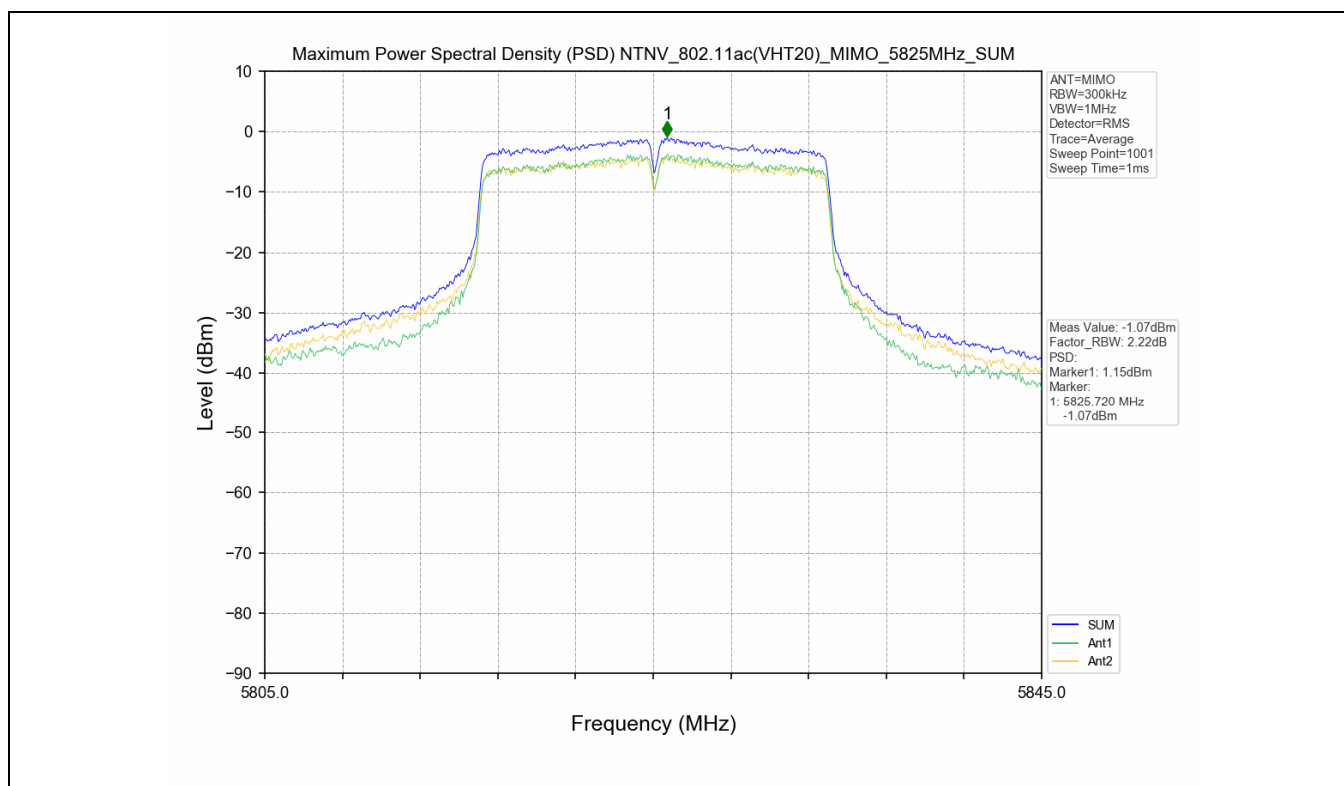


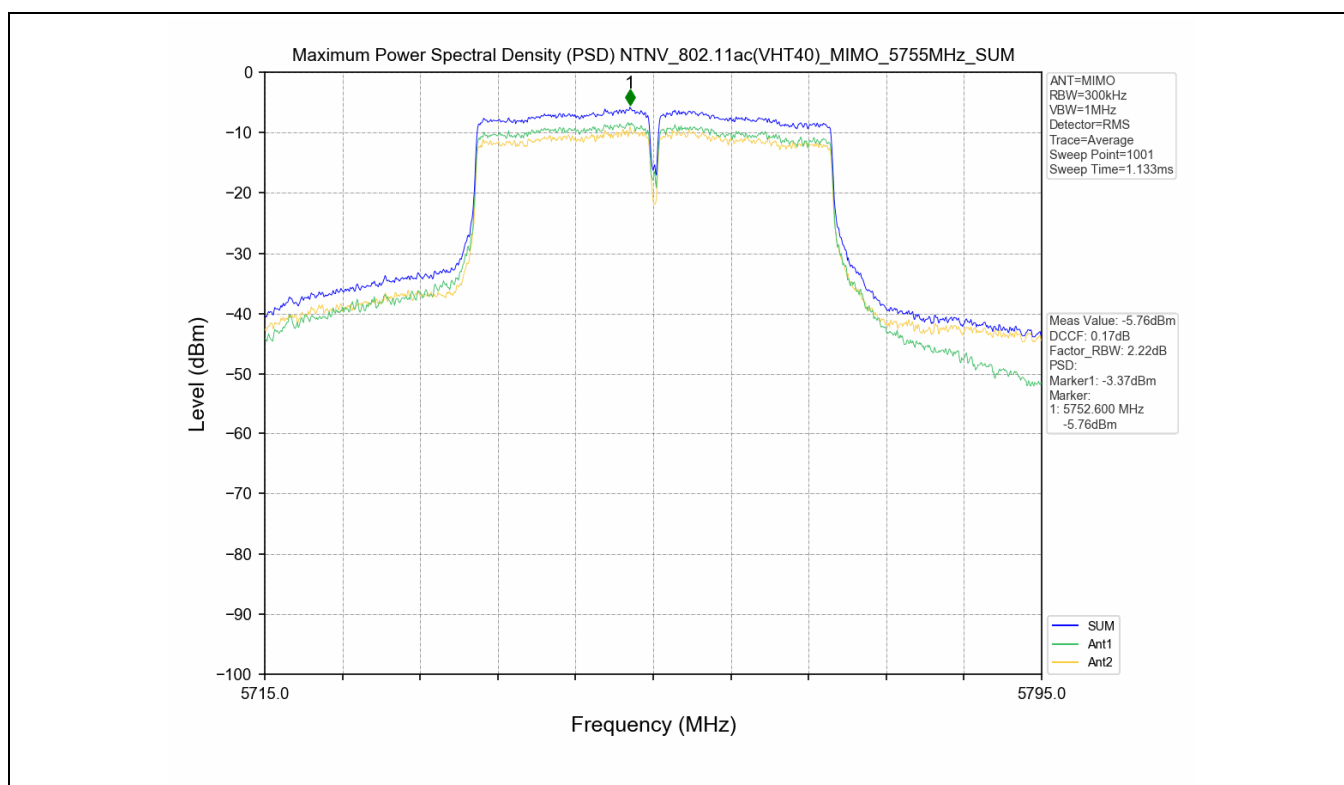
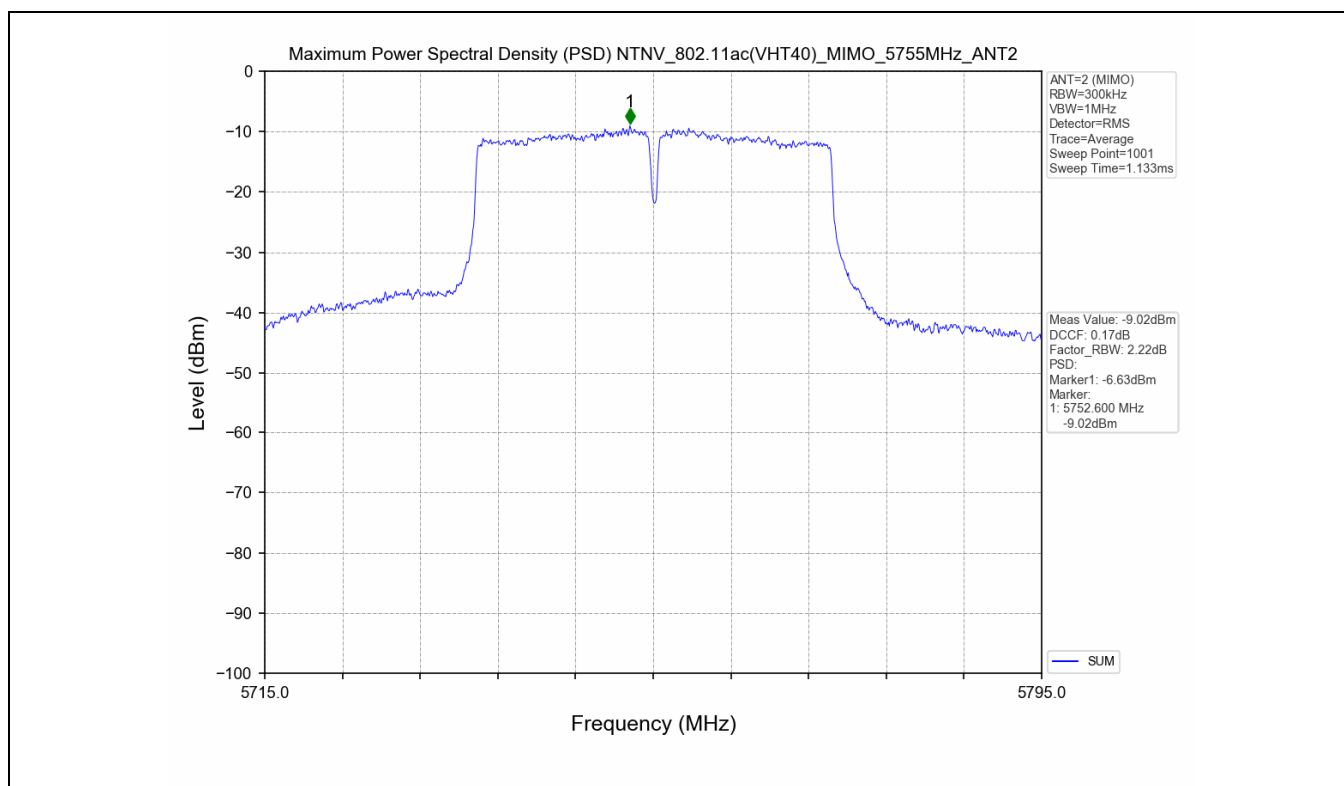


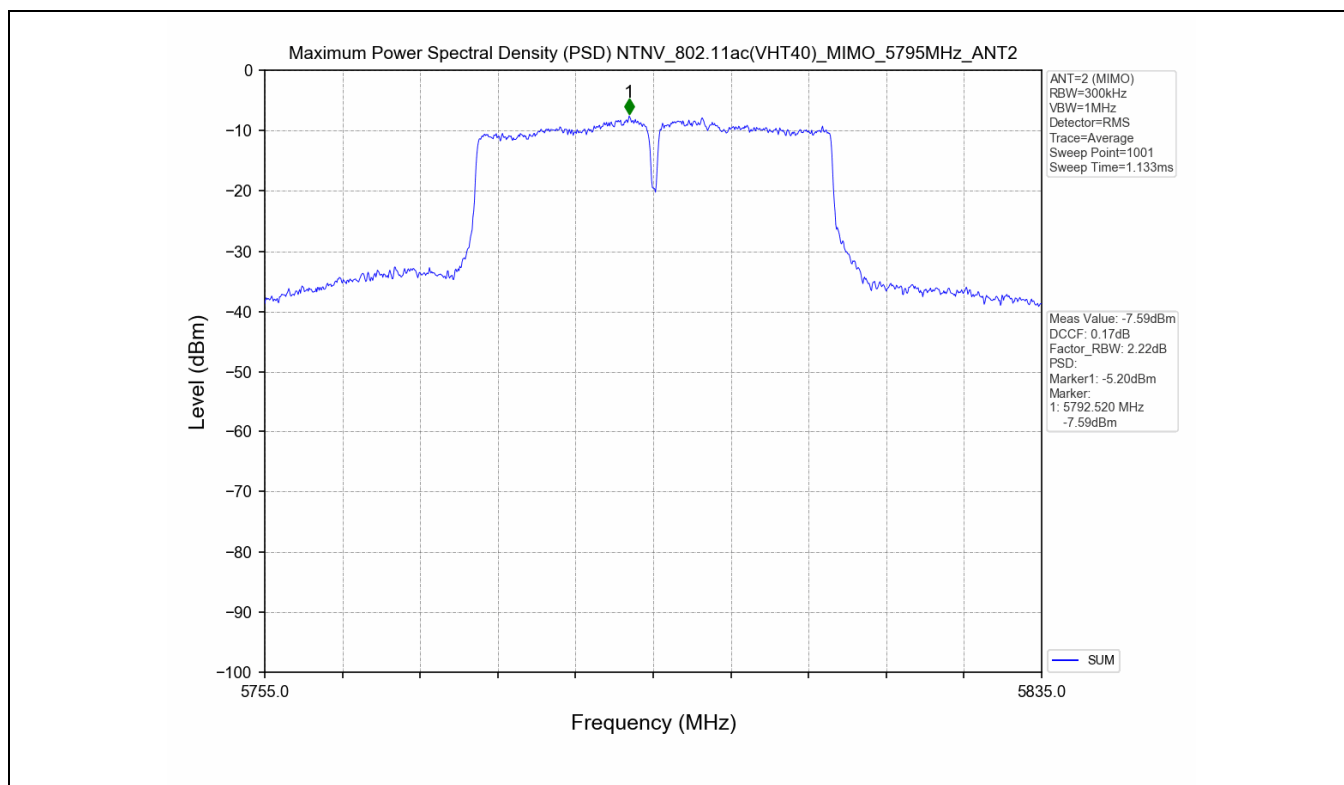
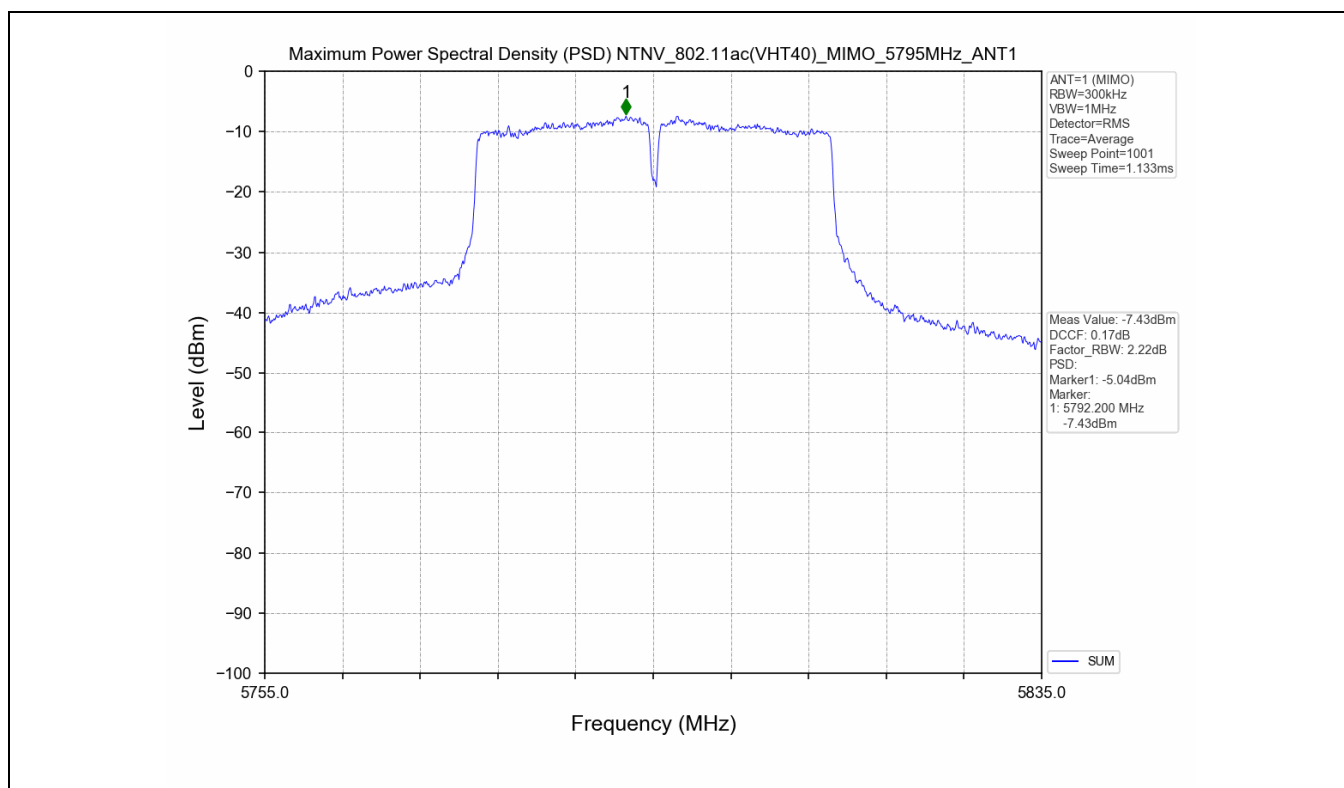


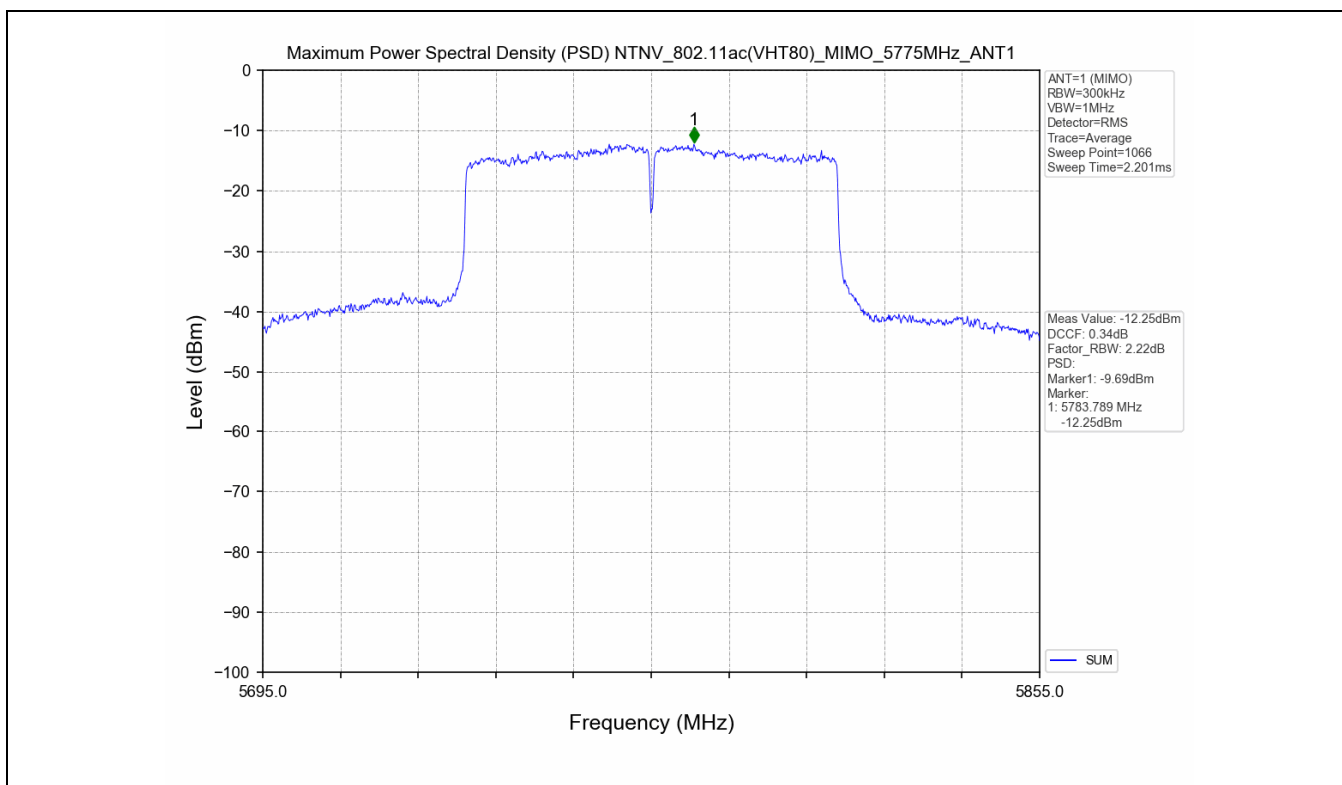
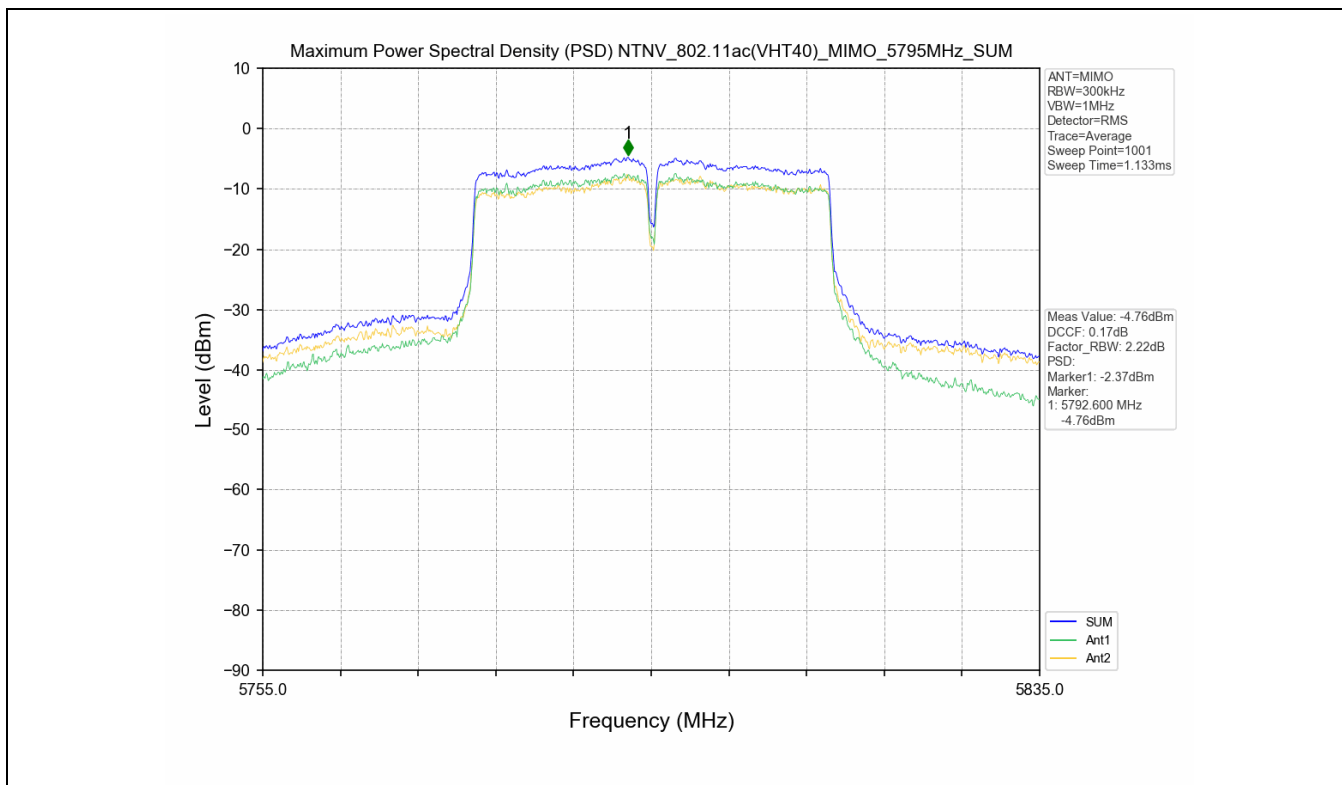


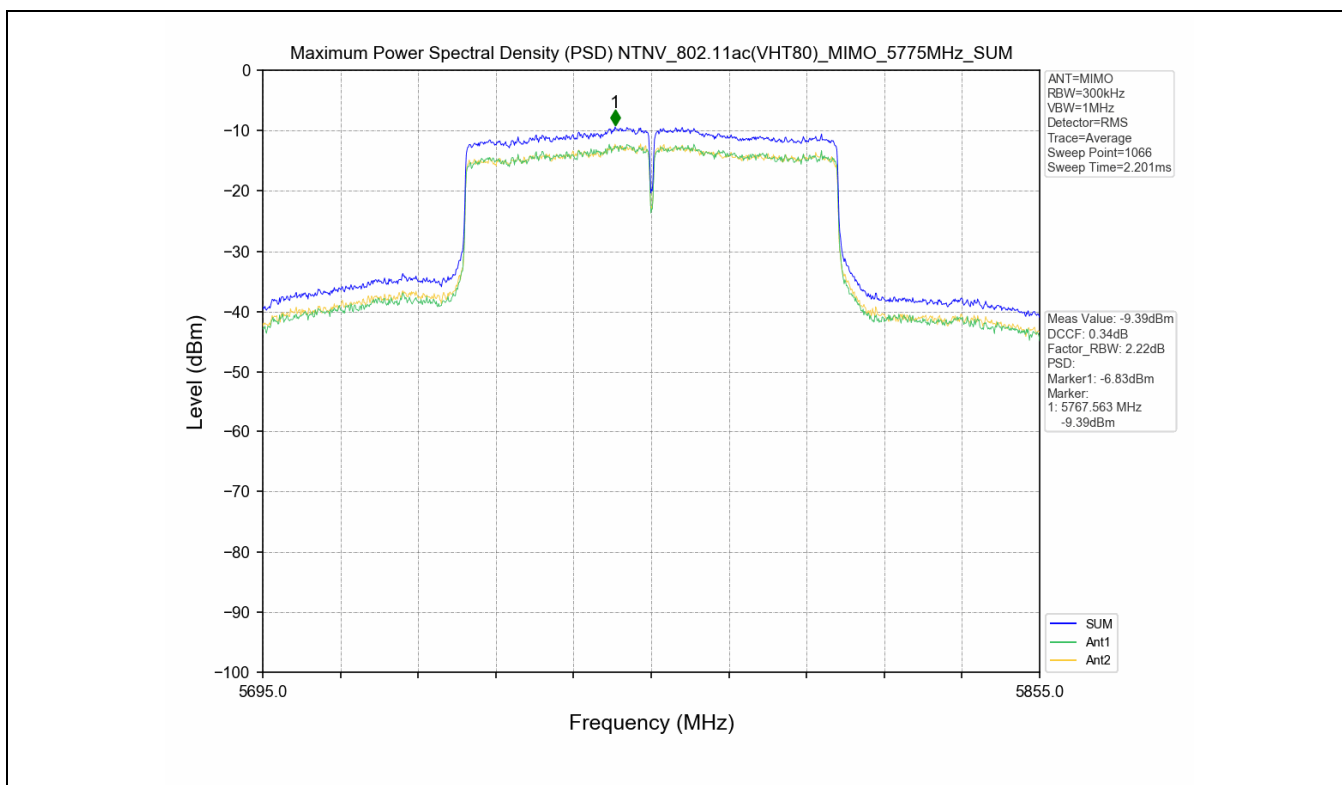
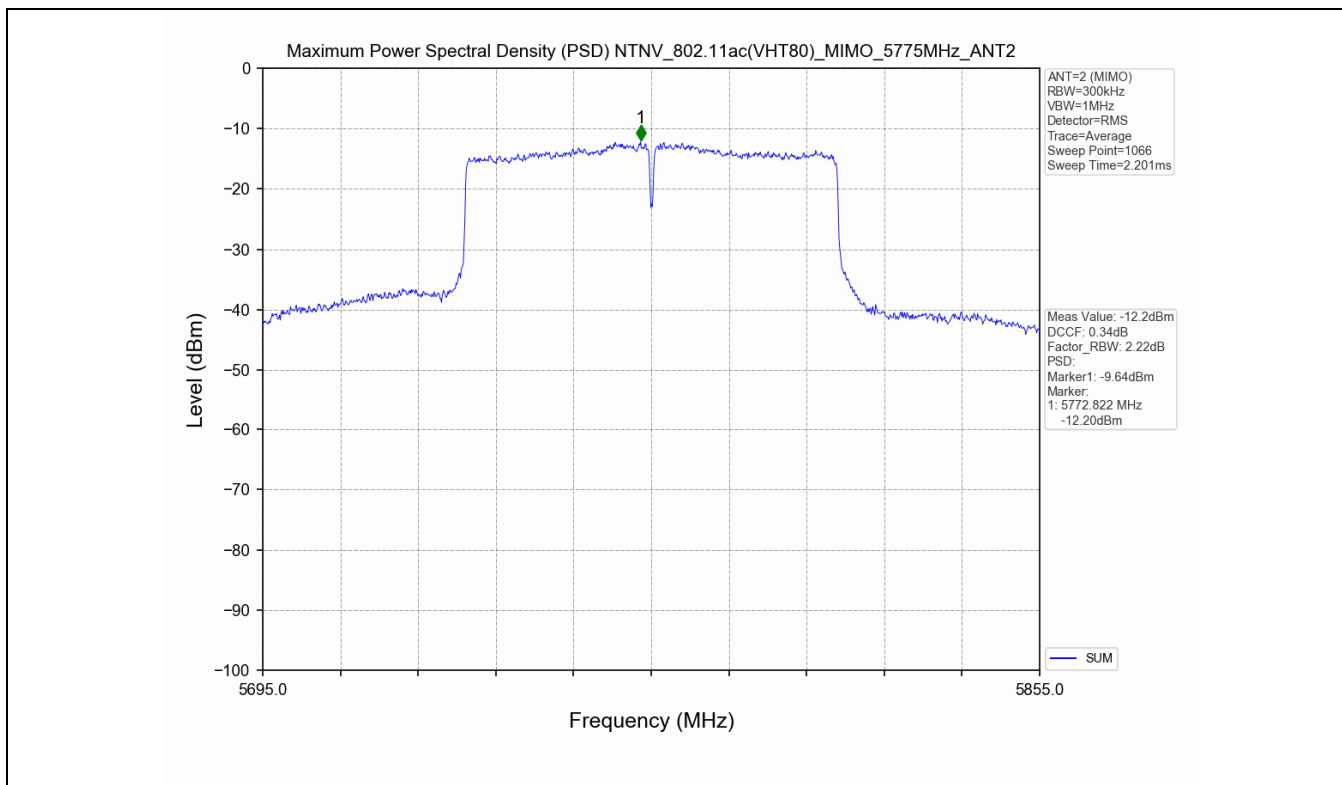












5. Frequency Stability

5.1 Test Result

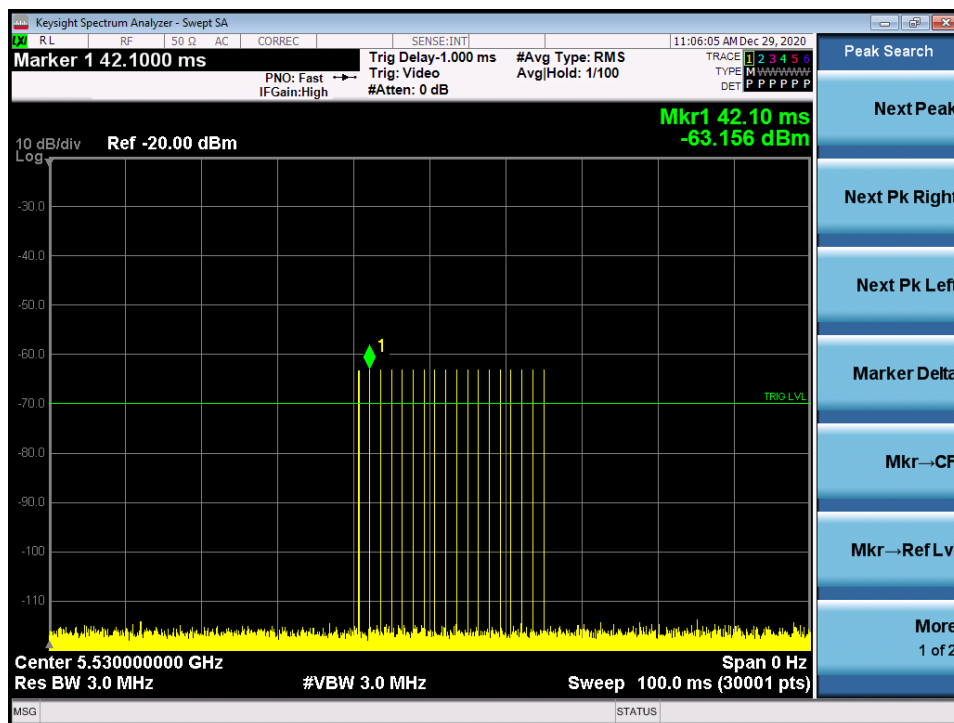
Test Condition	Test Mode	Test Frequency [MHz]	Ant	Result [ppm]	Limit [ppm]	Verdict
NTNV	802.11a	5500	1	3.64	<=20	PASS
		5580	1	0	<=20	PASS
		5700	1	3.51	<=20	PASS
		5745	1	0	<=20	PASS
		5785	1	6.91	<=20	PASS
		5825	1	3.43	<=20	PASS
	802.11n	5510	MIMO	0	<=20	PASS
		5550	MIMO	0	<=20	PASS
		5670	MIMO	0	<=20	PASS
		5755	MIMO	13.9	<=20	PASS
		5795	MIMO	13.81	<=20	PASS
	802.11ac	5530	MIMO	14.47	<=20	PASS
		5610	MIMO	0	<=20	PASS
		5775	MIMO	0	<=20	PASS

5. DFS: Non-occupancy period, DFS: Channel Move Time, DFS: Channel Closing Transmission Time
Test plots as follows:

Remark: Channel loading of Timing plots is greater than 17%.

Radar Waveform Calibration

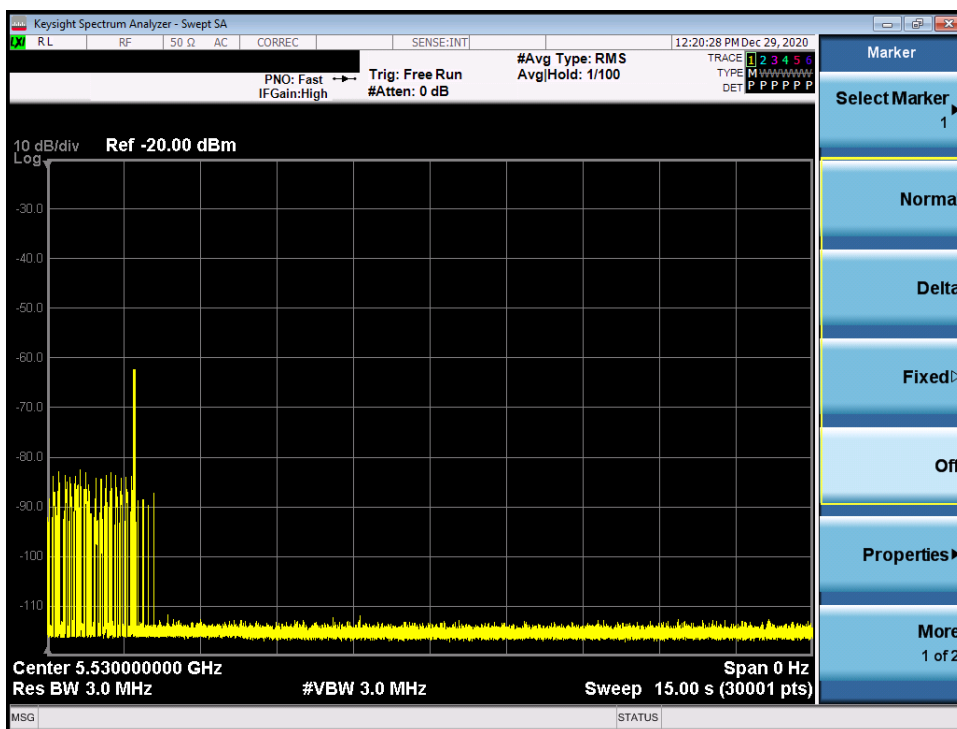
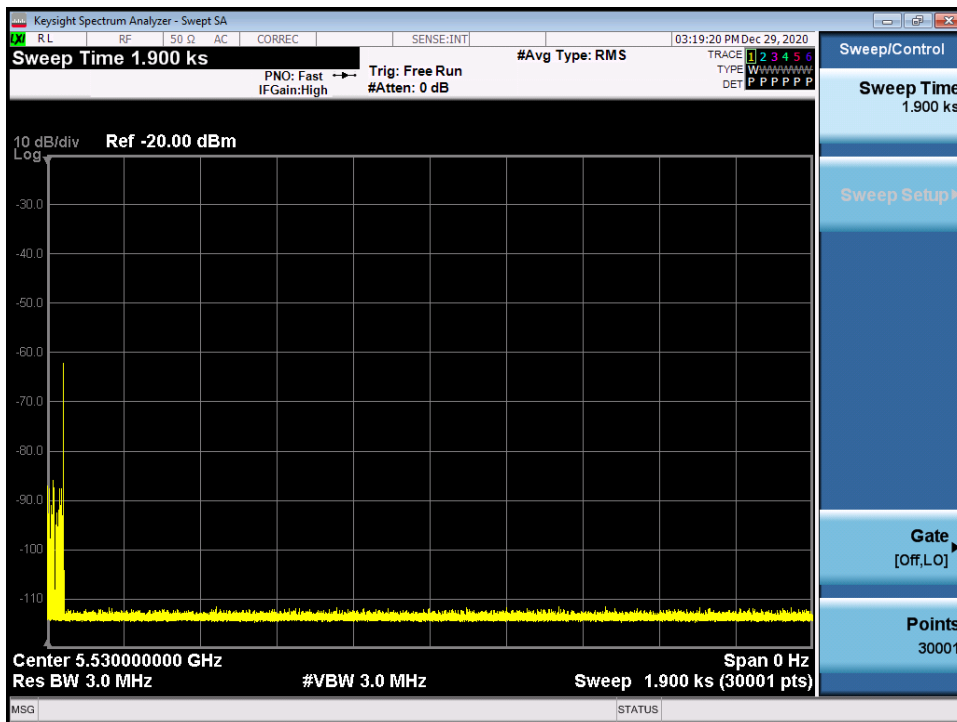
Radar Type 1 (80MHz / 5530MHz)

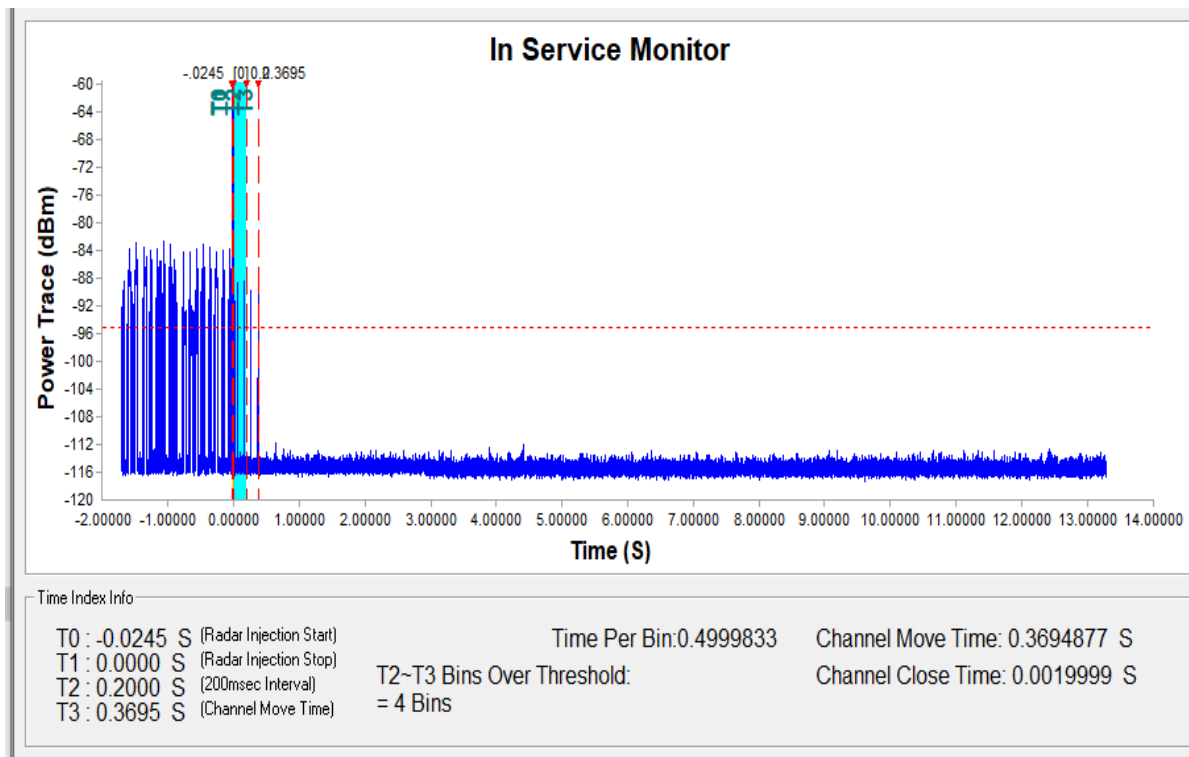


Test Data:

BW/Channel	Test Item	Test Result	Limit	Results
80MHz / 5530MHz	Non-occupancy period	Refer to test point	>30 min	pass
	Channel Move Time	0.37s	<10s	Pass
	Channel Closing Transmission Time	2.00ms	<60ms	Pass

80MHz / 5530MHz





- End of the Report -