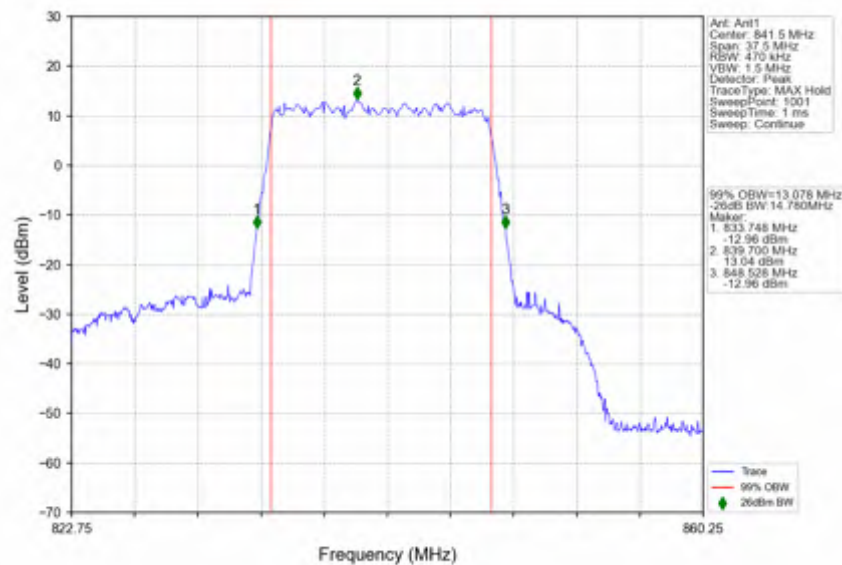
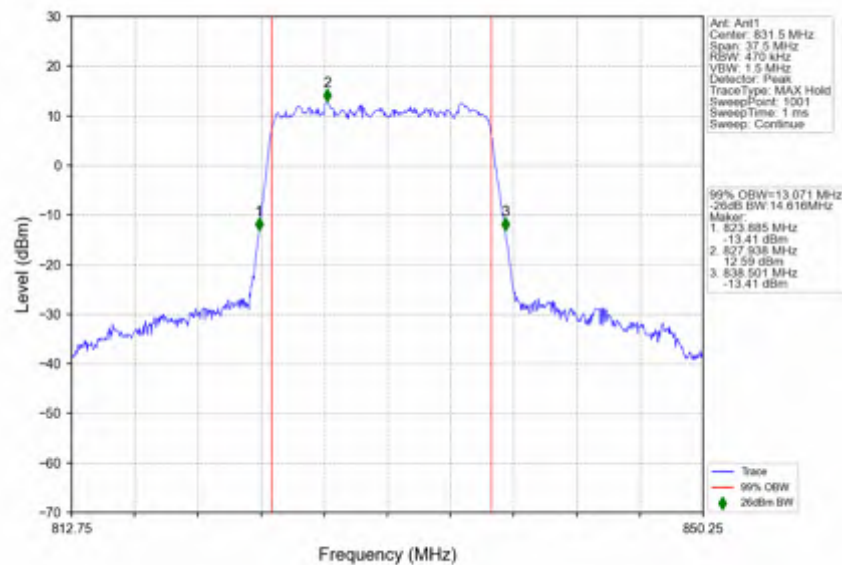


n5 30kHz SISO NTNv 15MHz DFT-s-OFDM 16 QAM 841.5MHz Outer Full



n5 30kHz SISO NTV 15MHz DFT-s-OFDM 64 QAM 831.5MHz Outer Full

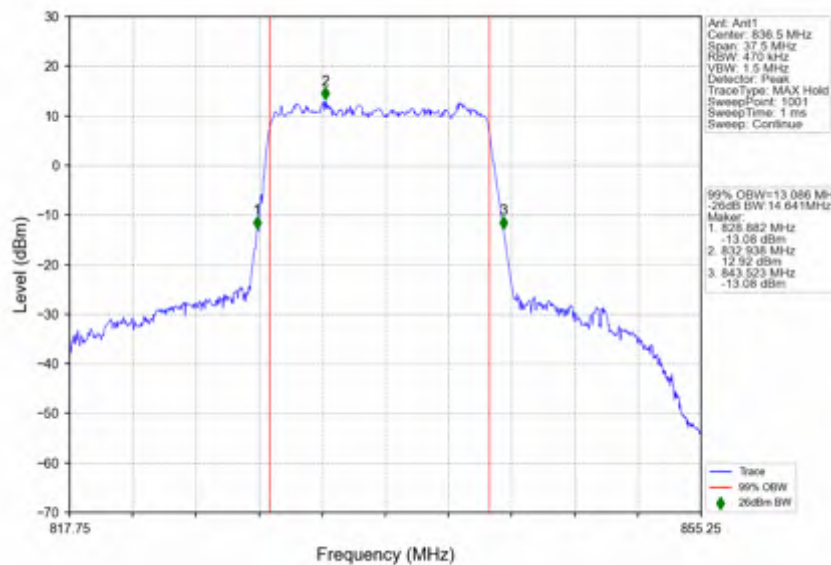


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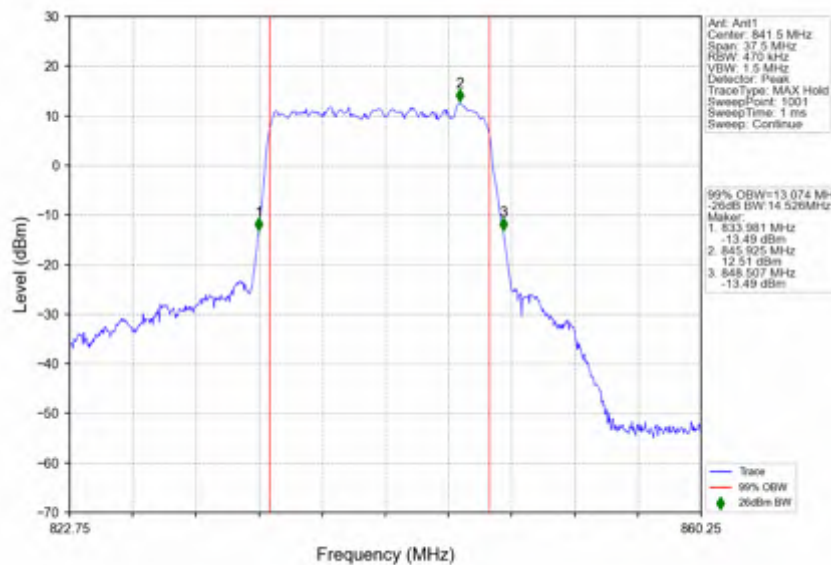
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n5 30kHz SISO NTNv 15MHz DFT-s-OFDM 64 QAM 836.5MHz Outer Full



n5 30kHz SISO NTNv 15MHz DFT-s-OFDM 64 QAM 841.5MHz Outer Full

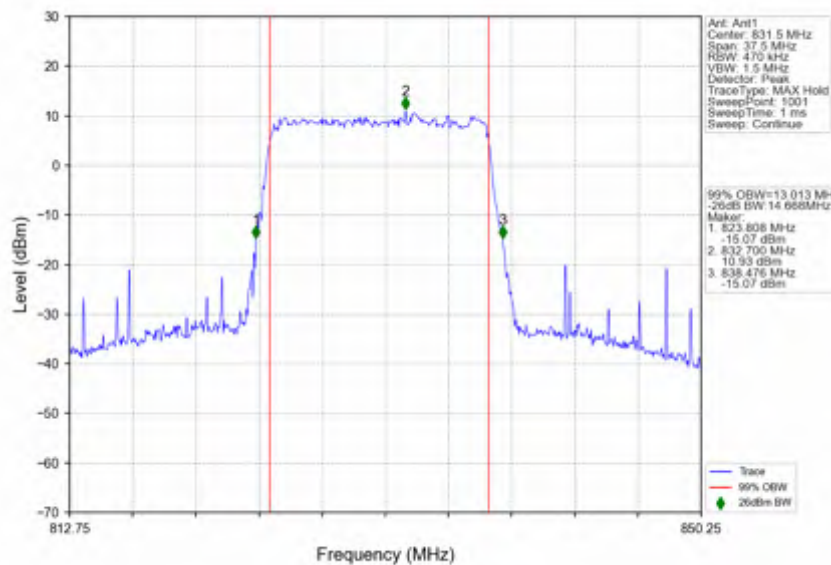


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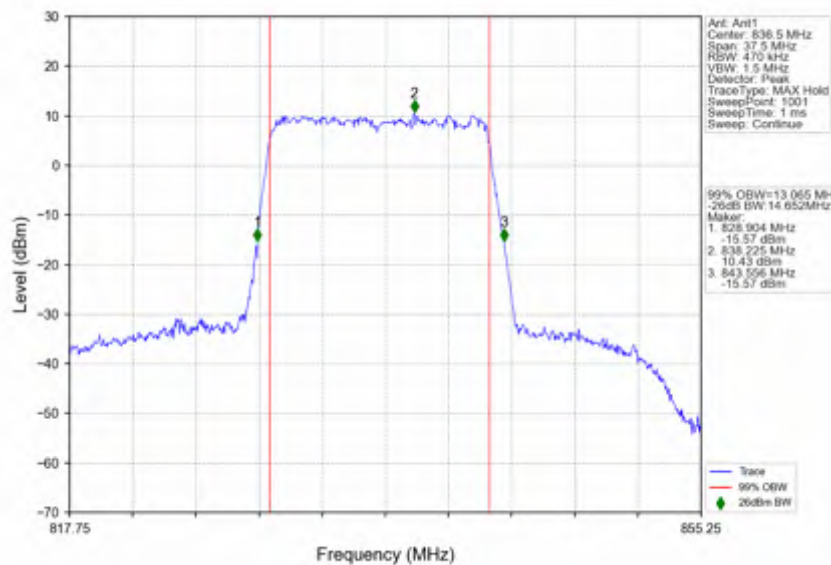
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n5 30kHz SISO NTNv 15MHz DFT-s-OFDM 256 QAM 831.5MHz Outer Full



n5 30kHz SISO NTNv 15MHz DFT-s-OFDM 256 QAM 836.5MHz Outer Full

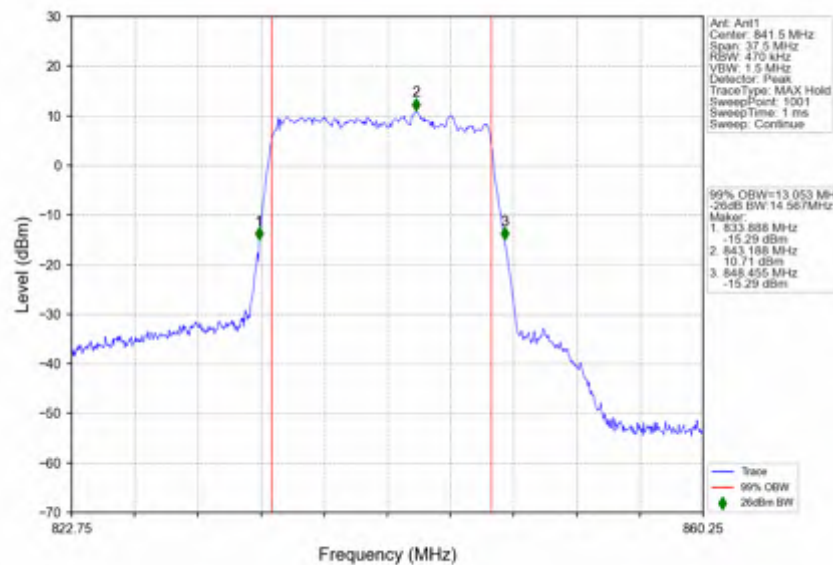


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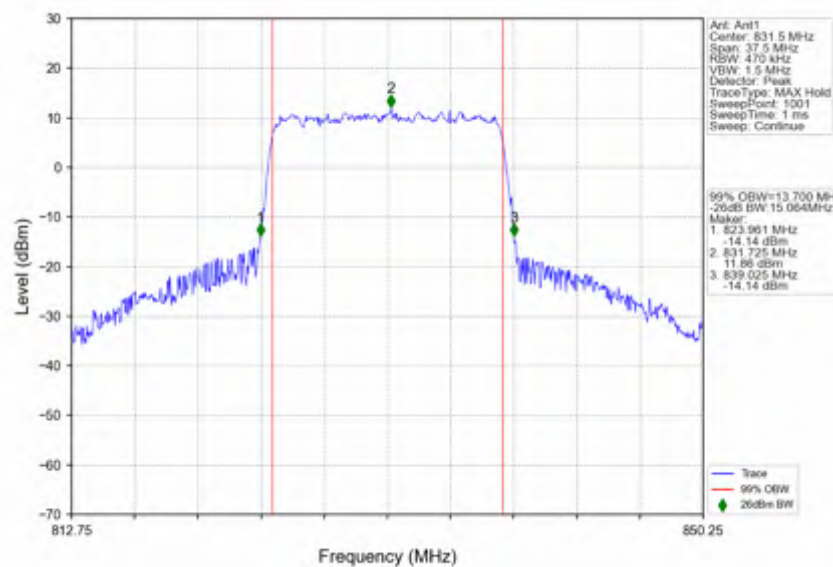
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n5 30kHz SISO NTNv 15MHz DFT-s-OFDM 256 QAM 841.5MHz Outer Full



n5_30kHz_SISO_NTNV_15MHz_CP-OFDM_QPSK_831.5MHz_Outer_Full

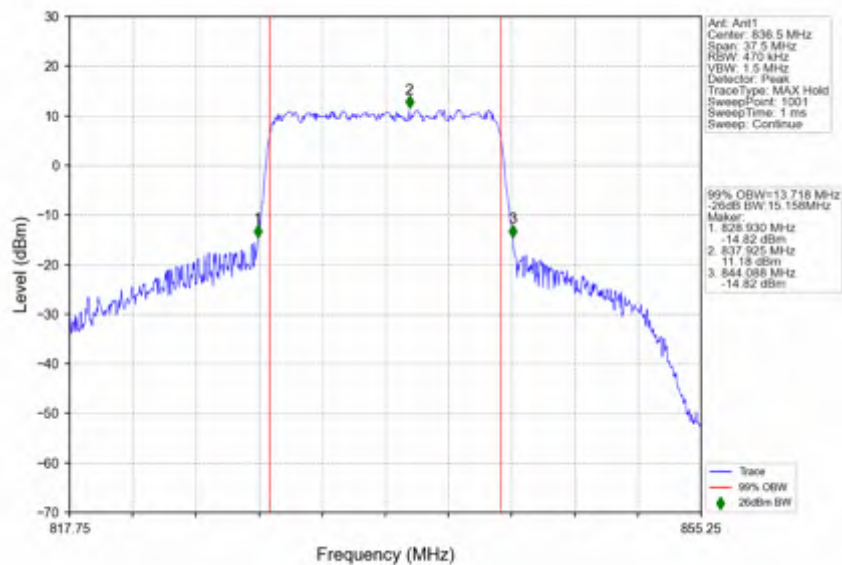


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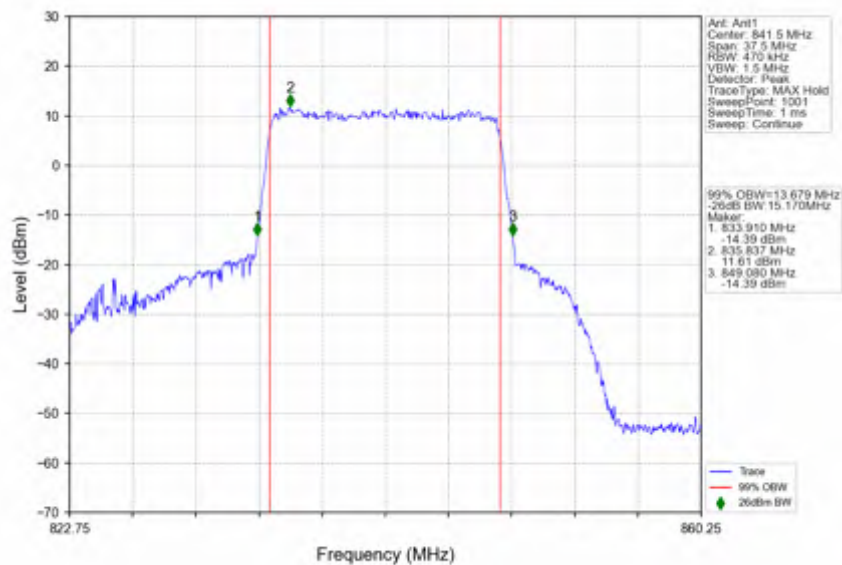
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n5_30kHz_SISO_NTNV_15MHz_CP-OFDM_QPSK_836.5MHz_Outer_Full



n5_30kHz_SISO_NTNV_15MHz_CP-OFDM_QPSK_841.5MHz_Outer_Full

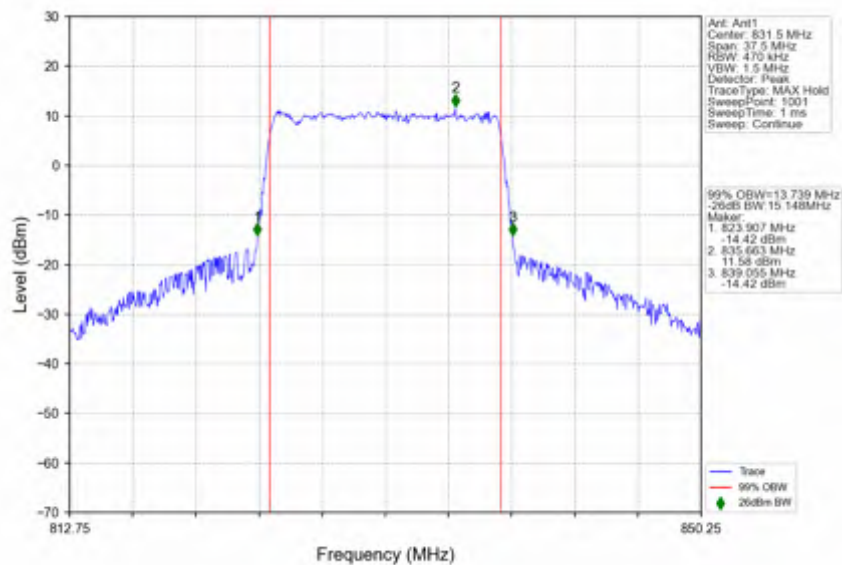


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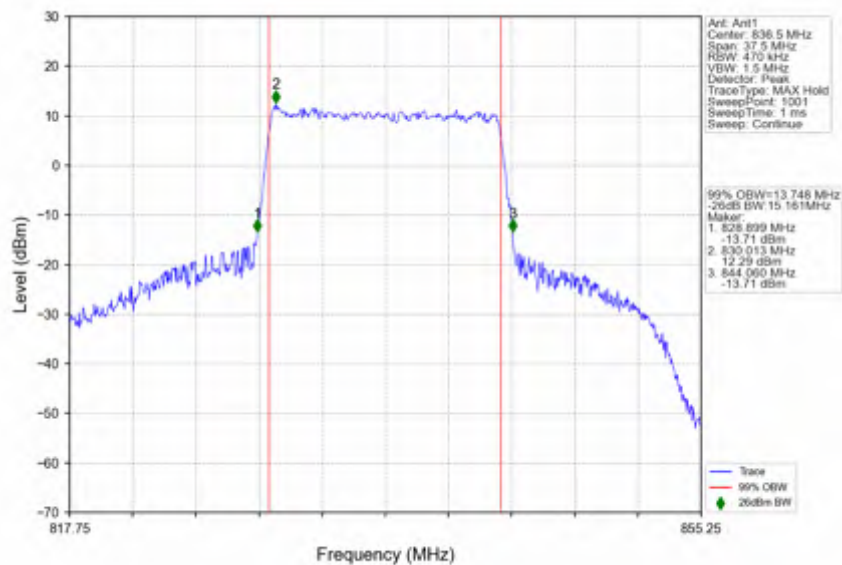
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n5_30kHz_SISO_NTNV_15MHz_CP-OFDM_16_QAM_831.5MHz_Outer_Full



n5_30kHz_SISO_NTNV_15MHz_CP-OFDM_16_QAM_836.5MHz_Outer_Full



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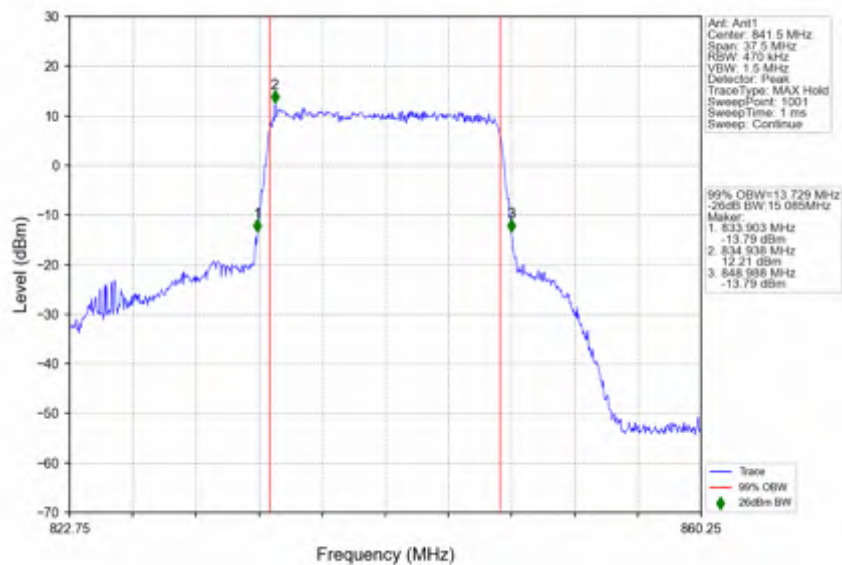
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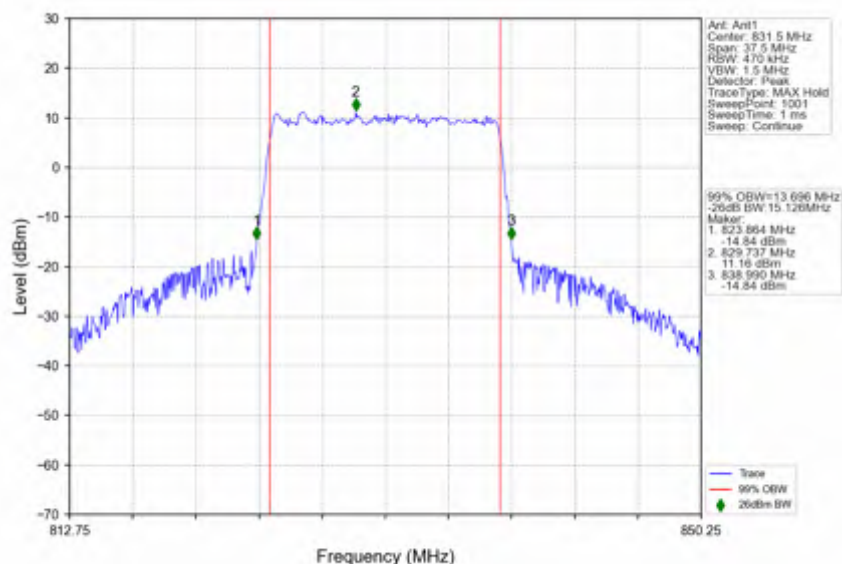
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n5 30kHz SISO NTNV 15MHz CP-OFDM 64 QAM 831.5MHz Outer Full

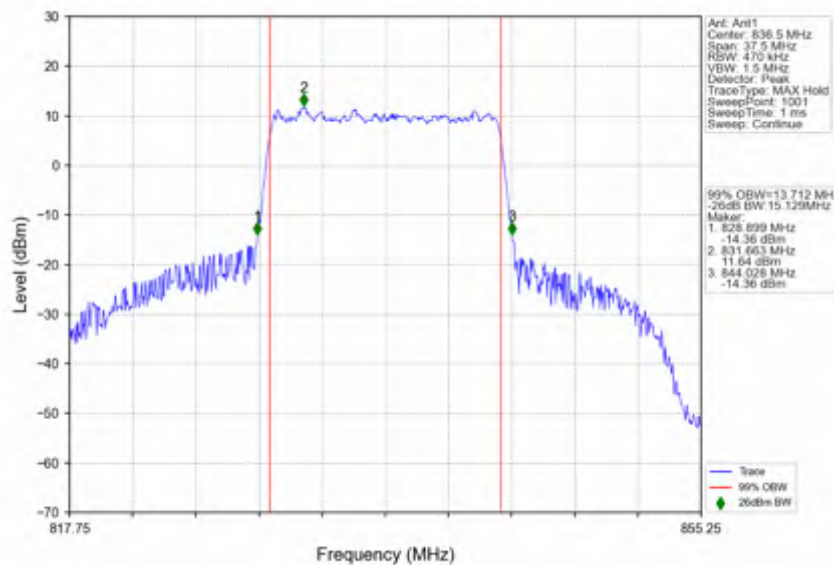


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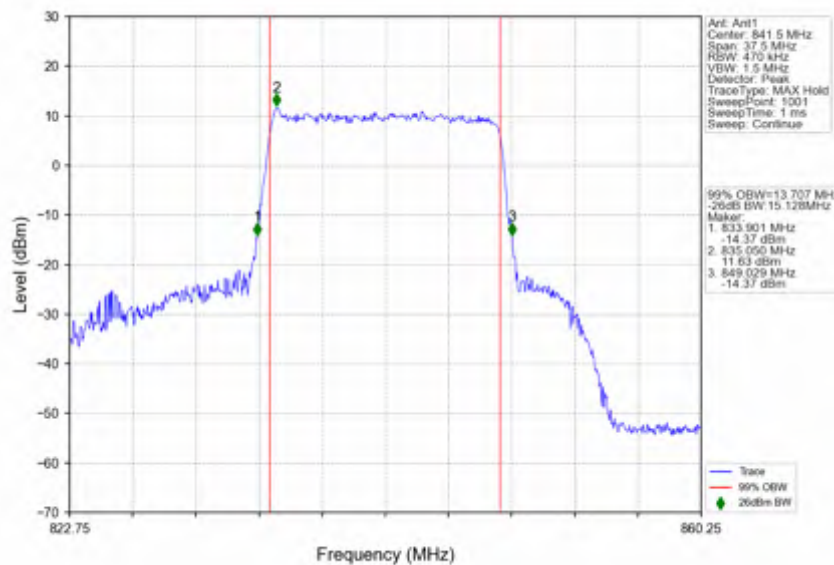
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n5_30kHz_SISO_NTNV_15MHz_CP-OFDM 64 QAM_836.5MHz_Outer_Full



n5_30kHz_SISO_NTNV_15MHz_CP-OFDM 64 QAM_841.5MHz_Outer_Full



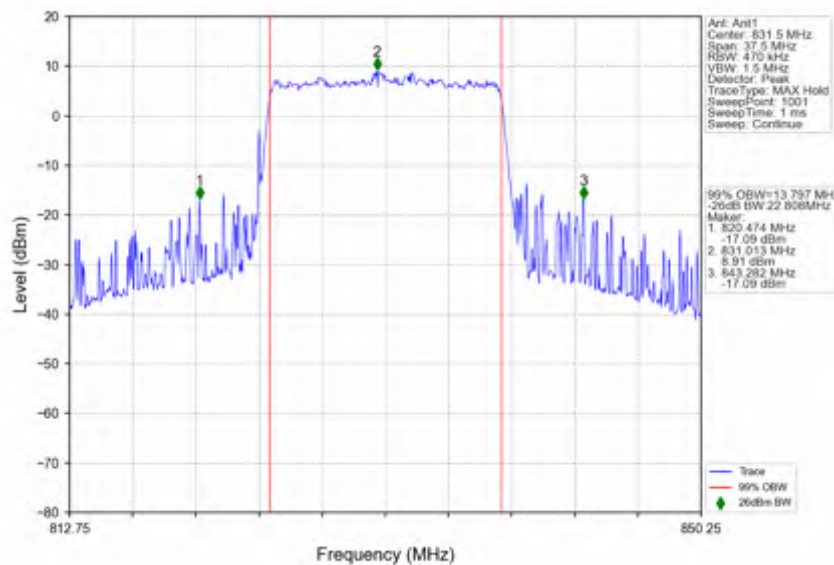
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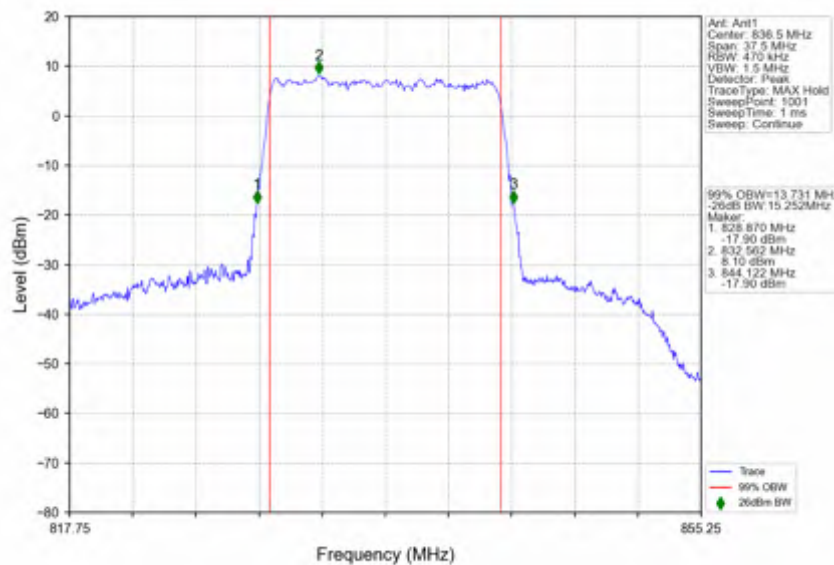
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n5_30kHz_SISO_NTNV_15MHz_CP-OFDM_256_QAM_831.5MHz_Outer_Full



n5_30kHz_SISO_NTNV_15MHz_CP-OFDM_256_QAM_836.5MHz_Outer_Full



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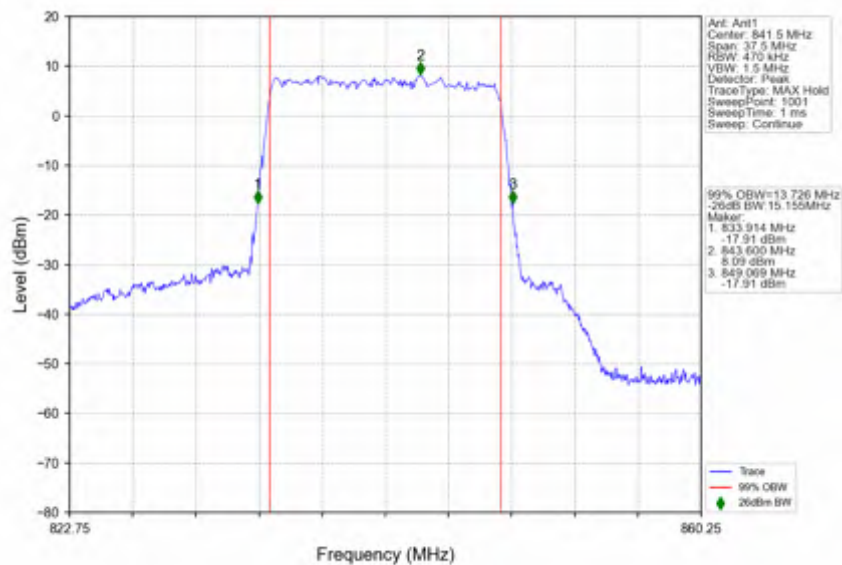
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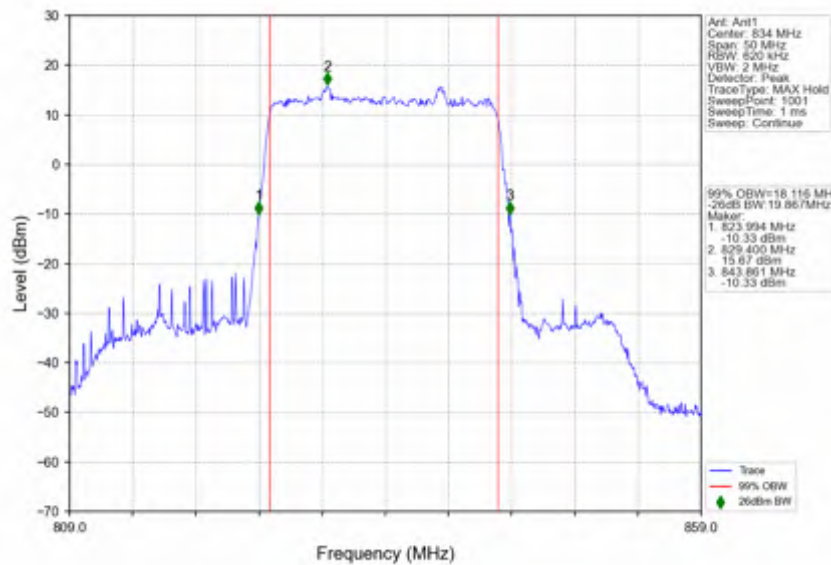
2.7 30k_SISO_20MHz_NTNV

2.7.1 Test Result

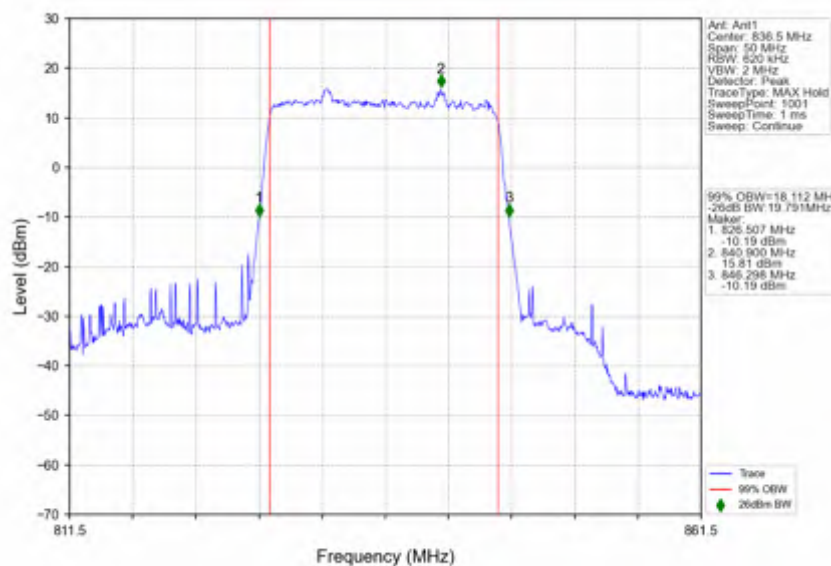
5G NR n5 SCS=30kHz SISO 20MHz NTN						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	834	Outer_Full	18.12	19.87	/	Pass
	836.5	Outer_Full	18.11	19.79	/	Pass
	839	Outer_Full	18.11	19.84	/	Pass
DFT-s-OFDM QPSK	834	Outer_Full	18.09	19.91	/	Pass
	836.5	Outer_Full	18.07	19.82	/	Pass
	839	Outer_Full	18.08	19.63	/	Pass
DFT-s-OFDM 16 QAM	834	Outer_Full	18.16	19.94	/	Pass
	836.5	Outer_Full	18.18	19.97	/	Pass
	839	Outer_Full	18.03	19.74	/	Pass
DFT-s-OFDM 64 QAM	834	Outer_Full	18.11	19.80	/	Pass
	836.5	Outer_Full	18.10	19.90	/	Pass
	839	Outer_Full	18.02	19.96	/	Pass
DFT-s-OFDM 256 QAM	834	Outer_Full	18.05	19.87	/	Pass
	836.5	Outer_Full	18.04	19.82	/	Pass
	839	Outer_Full	17.98	19.71	/	Pass
CP-OFDM QPSK	834	Outer_Full	18.38	20.27	/	Pass
	836.5	Outer_Full	18.36	20.14	/	Pass
	839	Outer_Full	18.39	20.07	/	Pass
CP-OFDM 16 QAM	834	Outer_Full	18.41	20.14	/	Pass
	836.5	Outer_Full	18.36	20.11	/	Pass
	839	Outer_Full	18.39	21.57	/	Pass
CP-OFDM 64 QAM	834	Outer_Full	18.32	19.97	/	Pass
	836.5	Outer_Full	18.31	20.00	/	Pass
	839	Outer_Full	18.42	19.98	/	Pass
CP-OFDM 256 QAM	834	Outer_Full	18.41	20.31	/	Pass
	836.5	Outer_Full	18.38	20.17	/	Pass
	839	Outer_Full	18.33	20.12	/	Pass

2.7.2 Test Graph

n5_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM_PI/2_BPSK_834MHz_Outer_Full



n5_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM_PI/2_BPSK_836.5MHz_Outer_Full



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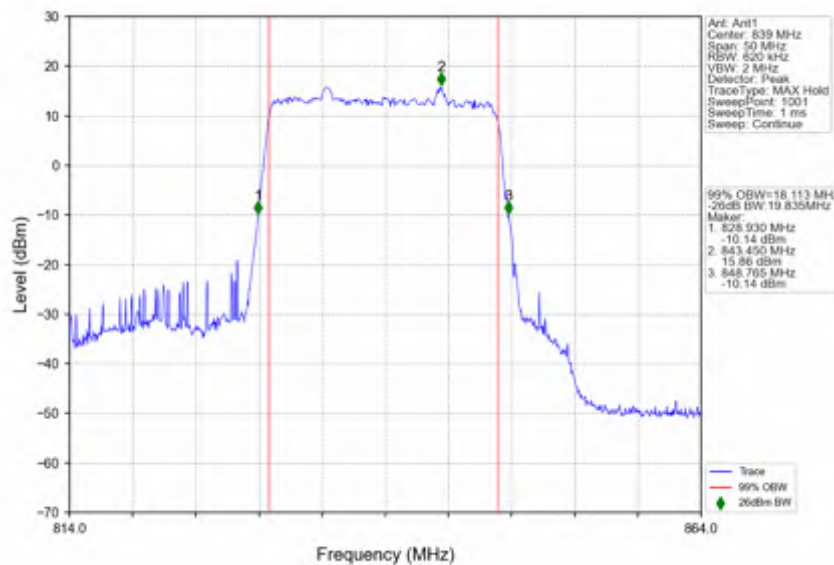
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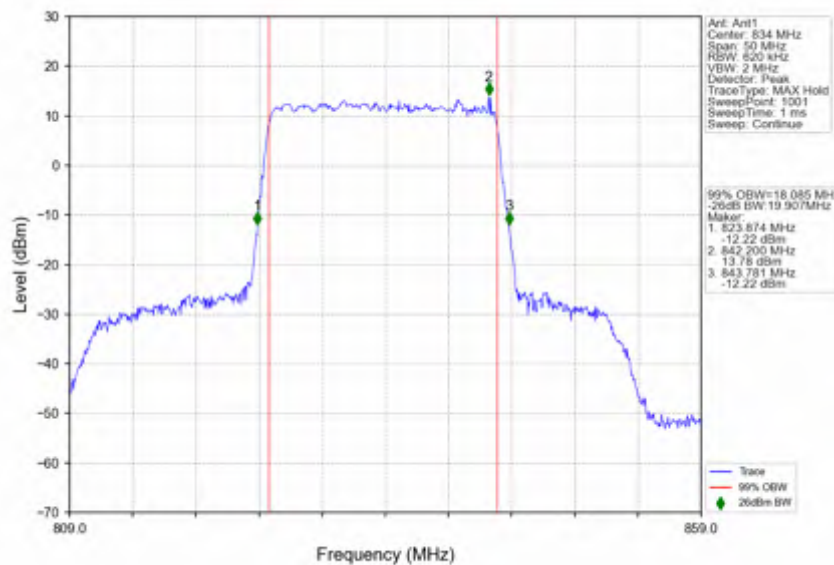
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n5_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM QPSK_834MHz_Outer_Full



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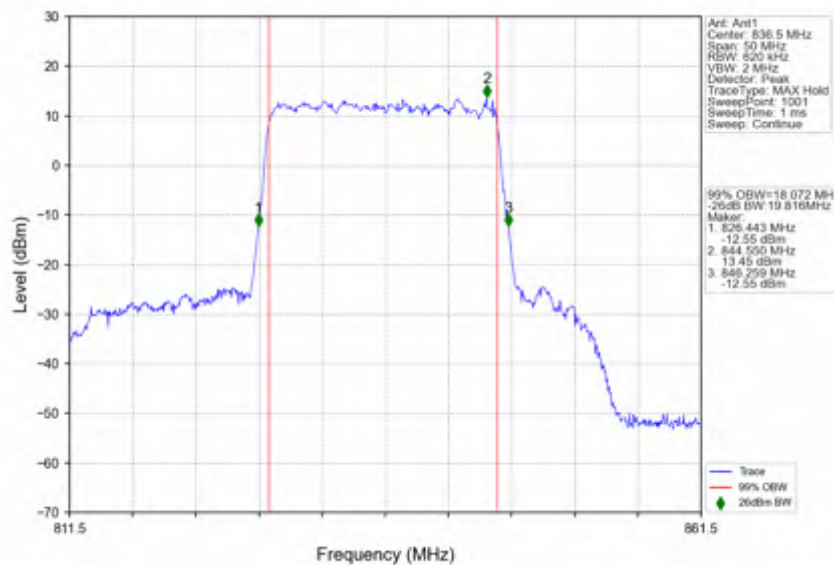
No.18, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300

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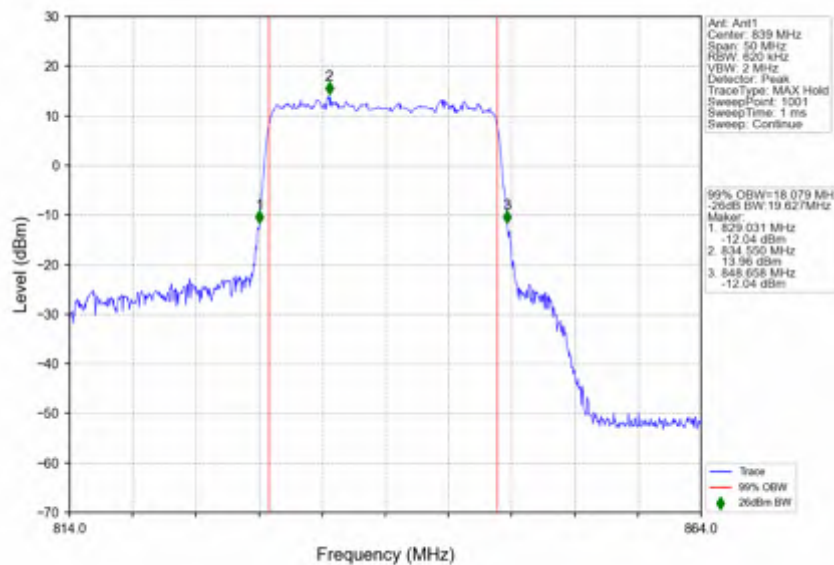
(86-512) 57350888 (86-512) 57370011 www.sgs.com.cn

(86-512) 57350883 (86-512) 57370011 sgs.china@sgs.com

n5_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM_QPSK_836.5MHz_Outer_Full



n5_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM_QPSK_839MHz_Outer_Full



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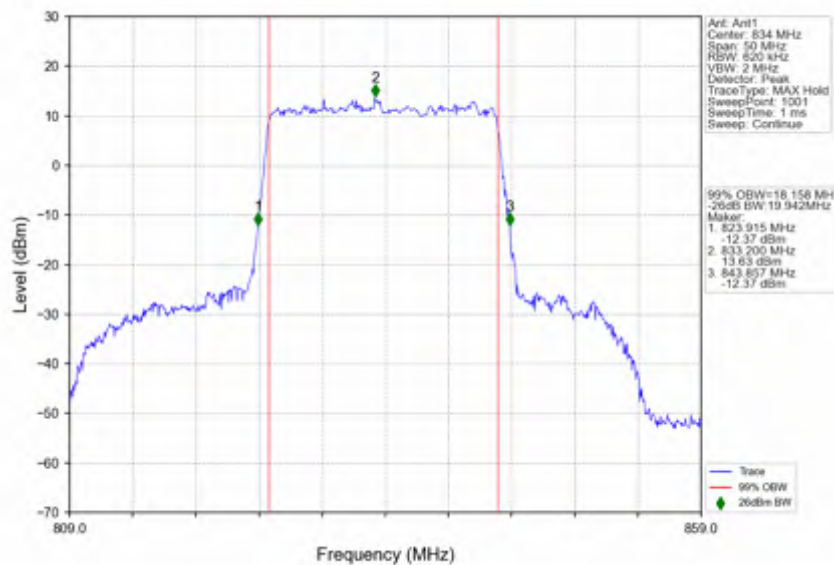
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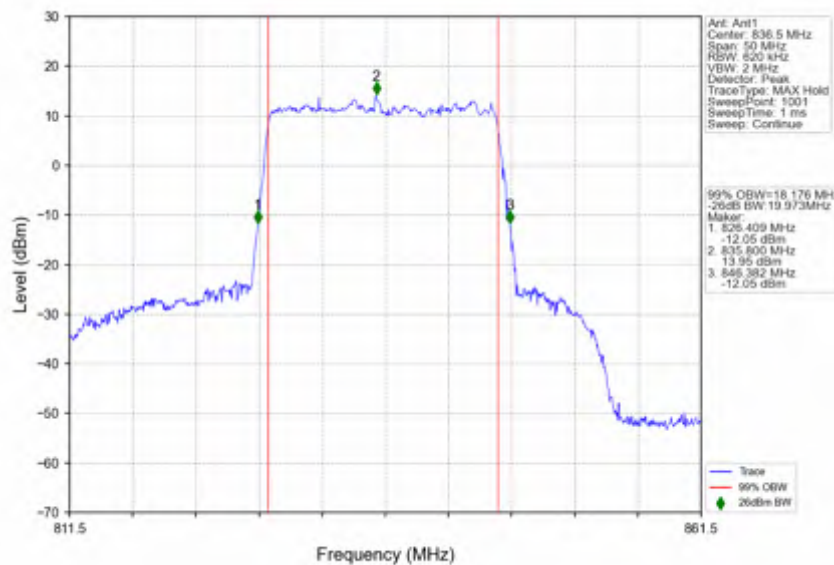
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n5_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM_16_QAM_834MHz_Outer_Full



n5_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM_16_QAM_836.5MHz_Outer_Full



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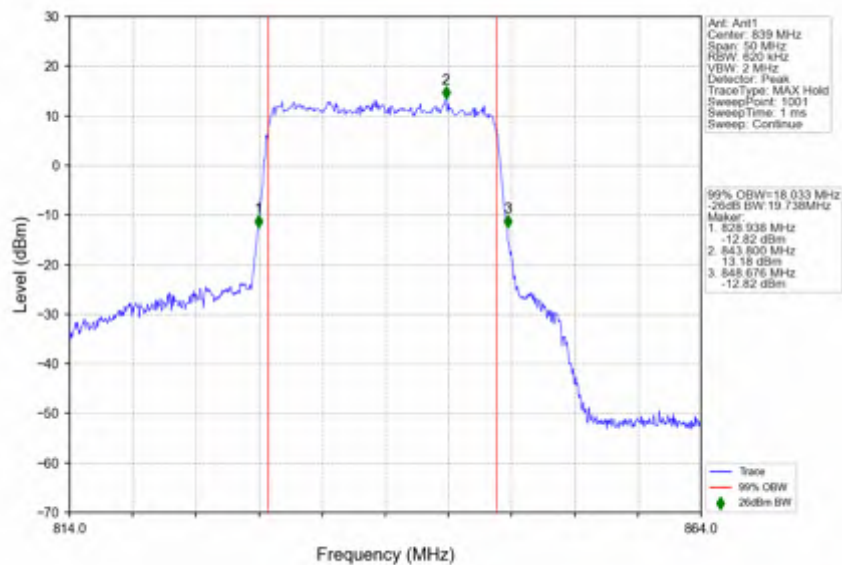
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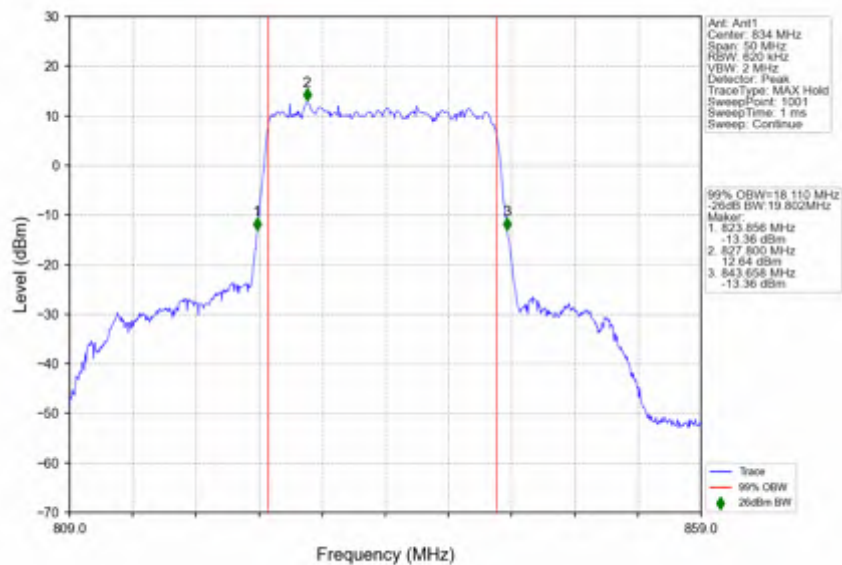
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n5_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM_16_QAM_839MHz_Outer_Full



n5_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM_64_QAM_834MHz_Outer_Full



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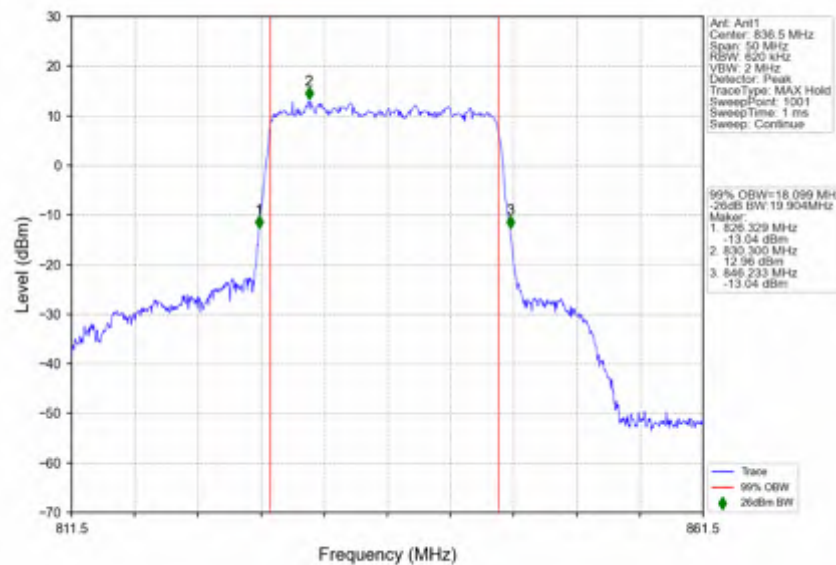
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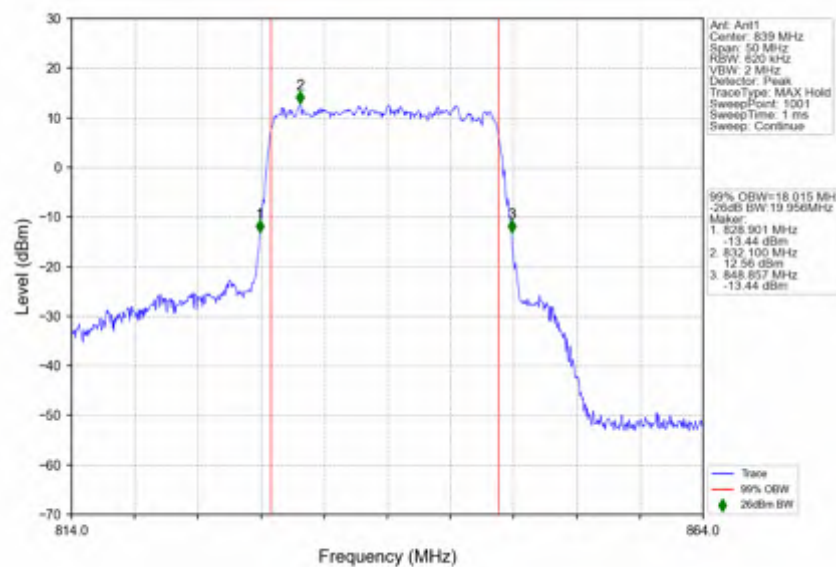
0512-57370910

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n5 30kHz SISO NTNv 20MHz DFT-s-OFDM 64 QAM 836.5MHz Outer Full



n5 30kHz SISO NTNv 20MHz DFT-s-OFDM 64 QAM 839MHz Outer Full

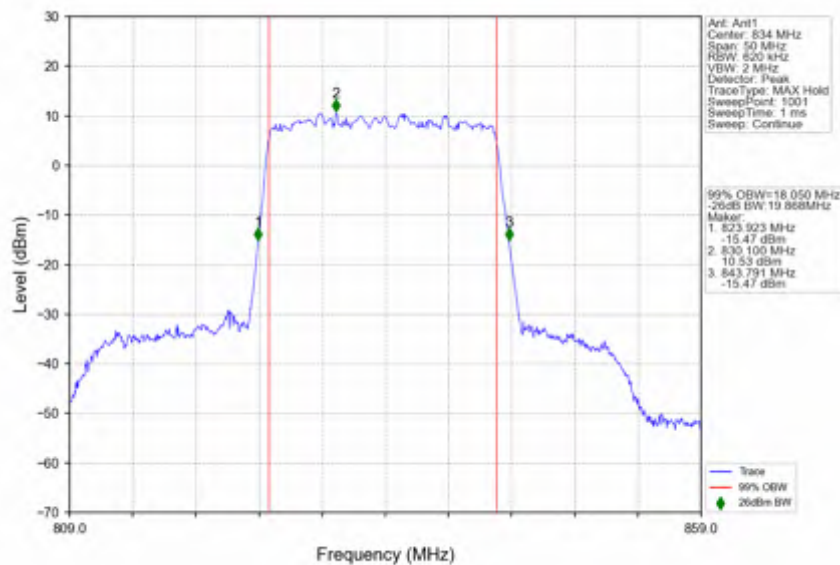


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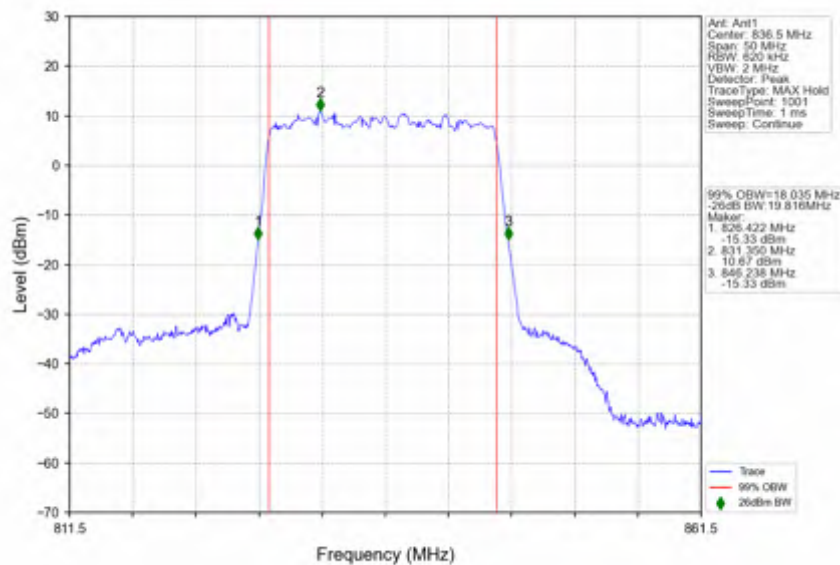
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n5_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM_256_QAM_834MHz_Outer_Full



n5_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM_256_QAM_836.5MHz_Outer_Full



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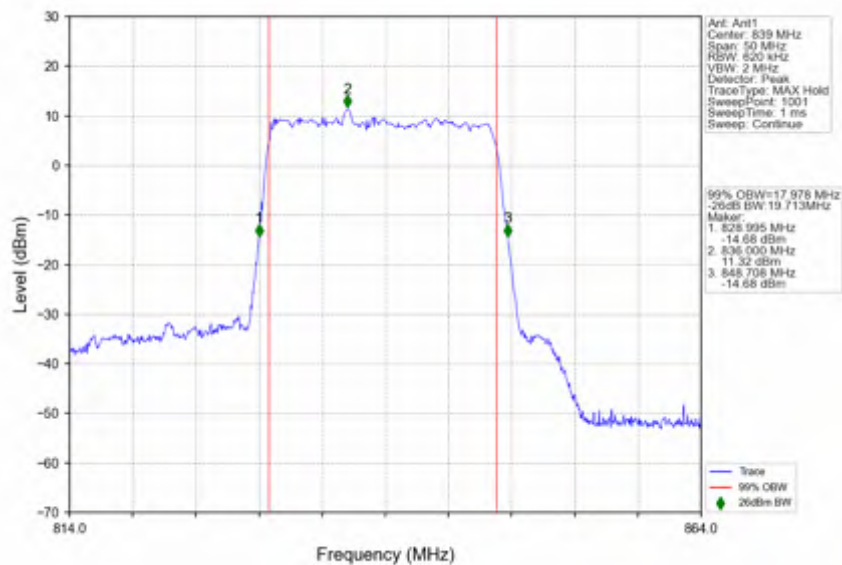
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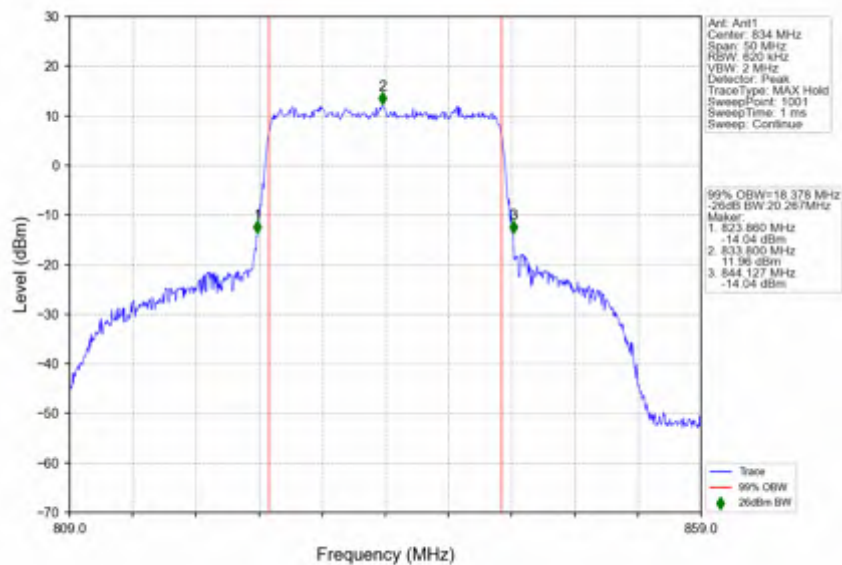
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n5_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM 256 QAM_839MHz_Outer_Full



n5_30kHz_SISO_NTNV_20MHz_CP-OFDM QPSK_834MHz_Outer_Full



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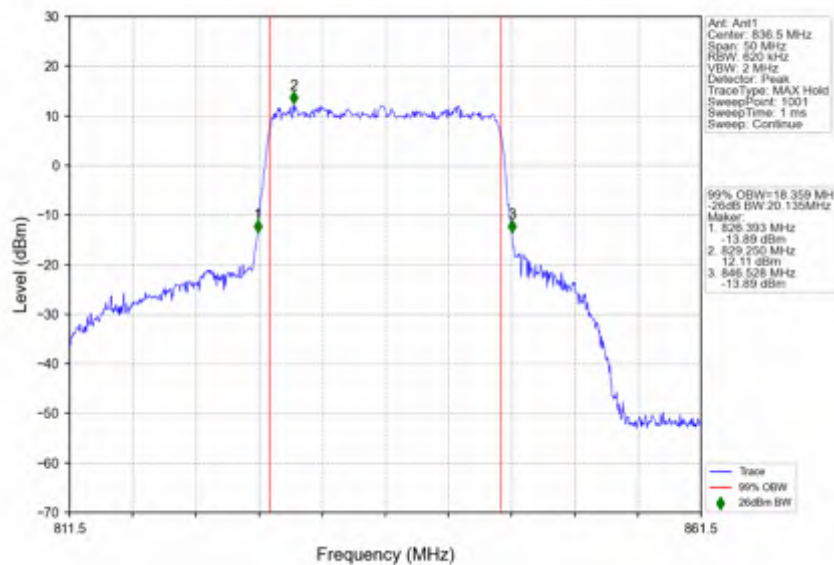
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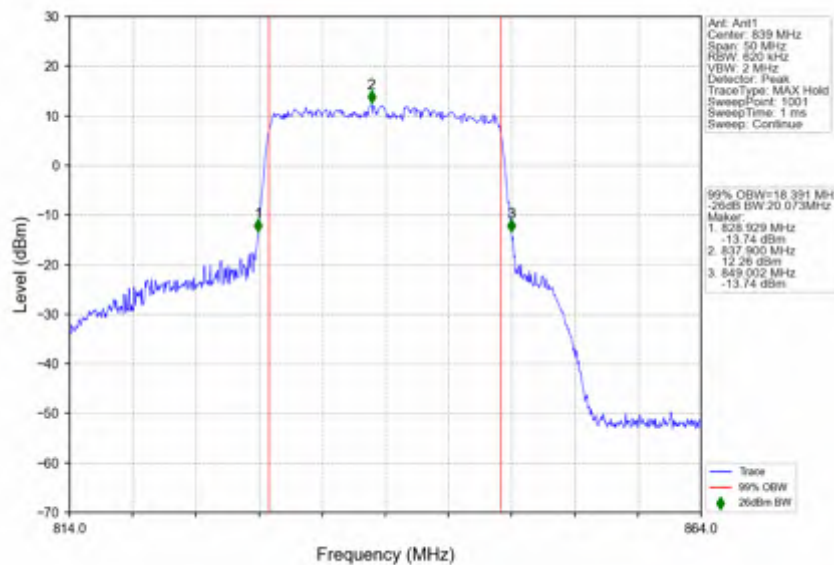
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n5_30kHz_SISO_NTNV_20MHz_CP-OFDM_QPSK_836.5MHz_Outer_Full



n5_30kHz_SISO_NTNV_20MHz_CP-OFDM_QPSK_839MHz_Outer_Full

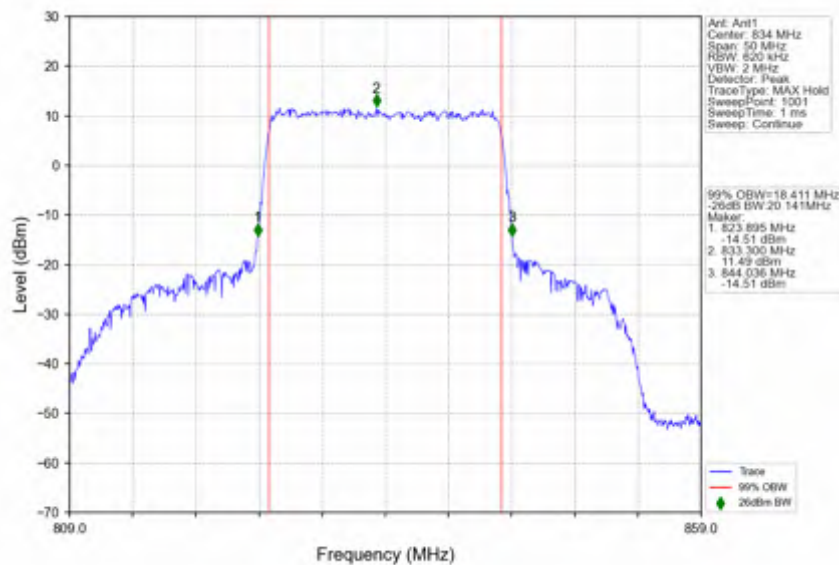


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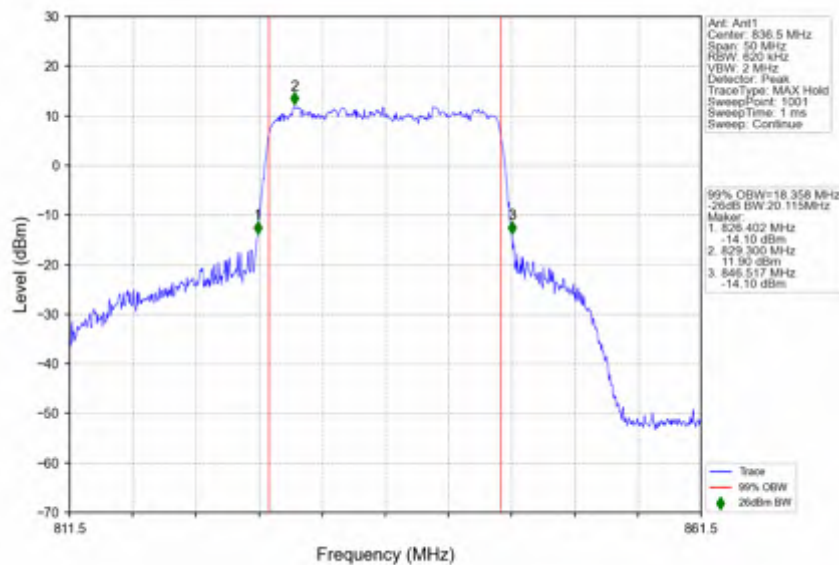
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n5_30kHz_SISO_NTNV_20MHz_CP-OFDM_16_QAM_834MHz_Outer_Full



n5_30kHz_SISO_NTNV_20MHz_CP-OFDM_16_QAM_836.5MHz_Outer_Full



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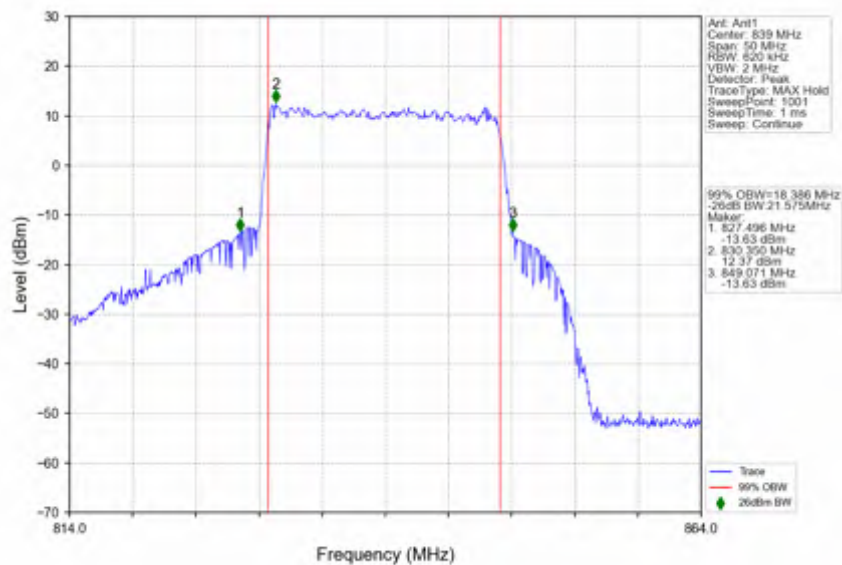
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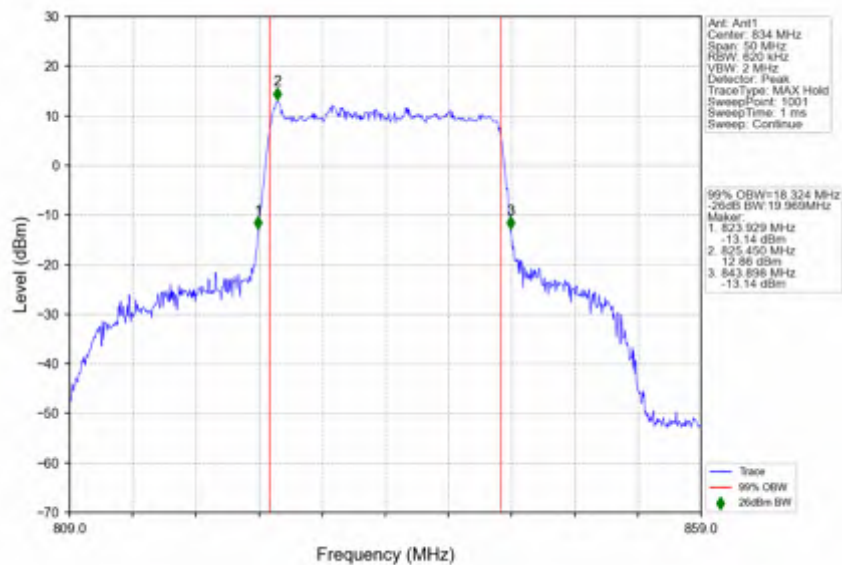
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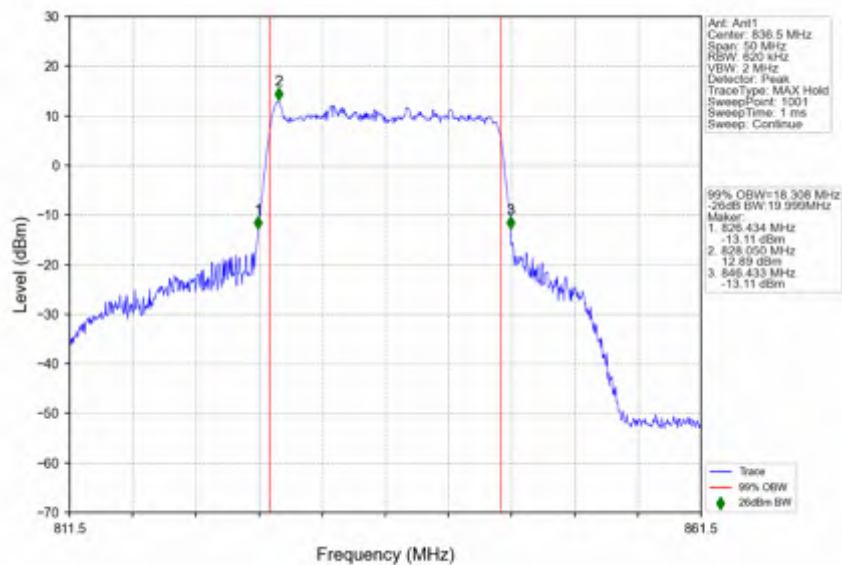
n5 30kHz SISO NTN 20MHz CP-OFDM 64 QAM 834MHz Outer Full

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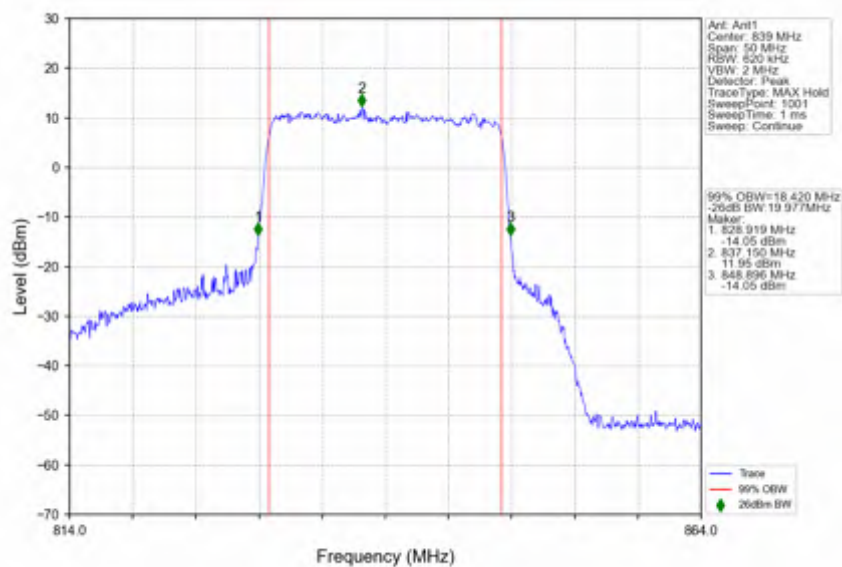
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n5 30kHz SISO NTN 20MHz CP-OFDM 64 QAM 836.5MHz Outer Full



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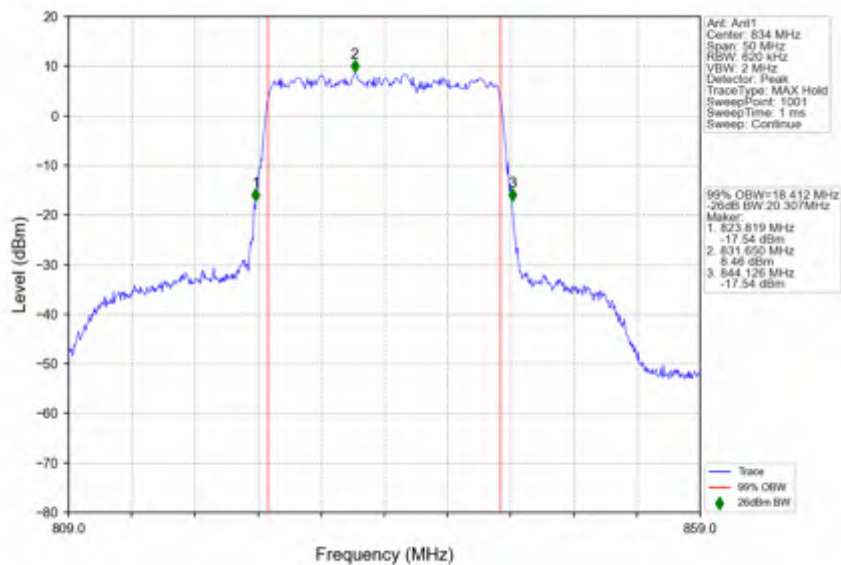


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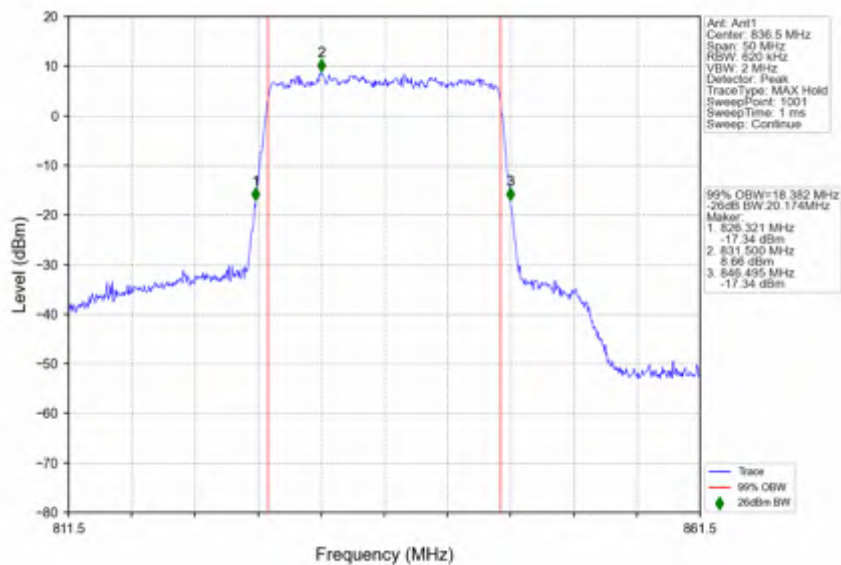
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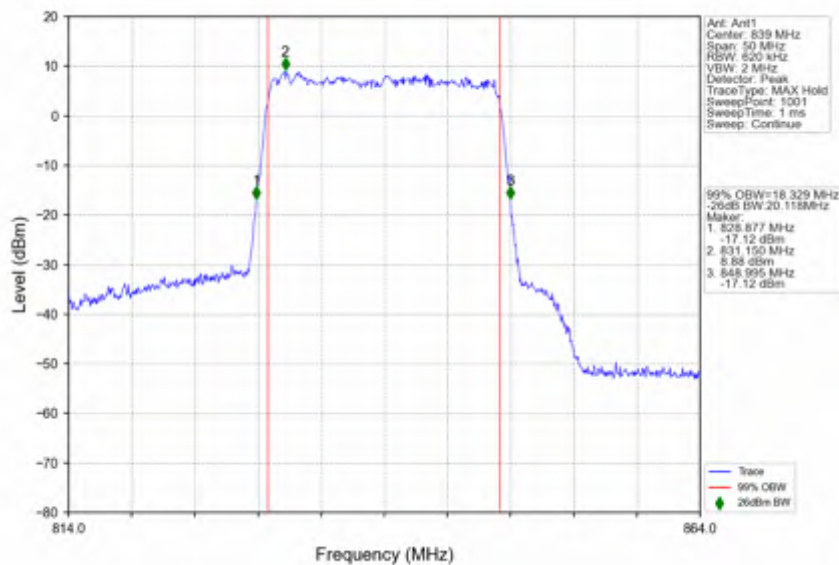
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3. 99% & 26dB Bandwidth

3.1 n7 15k_SISO_5MHz_NTNV

3.1.1 Test Result

5G NR n7 SCS=15kHz SISO 5MHz NTV						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	2502.5	Outer_Full	4.53	5.00	/	Pass
	2535	Outer_Full	4.53	5.02	/	Pass
	2567.5	Outer_Full	4.53	5.00	/	Pass
DFT-s-OFDM QPSK	2502.5	Outer_Full	4.54	5.01	/	Pass
	2535	Outer_Full	4.53	5.02	/	Pass
	2567.5	Outer_Full	4.54	5.01	/	Pass
DFT-s-OFDM 16 QAM	2502.5	Outer_Full	4.53	5.00	/	Pass
	2535	Outer_Full	4.52	5.03	/	Pass
	2567.5	Outer_Full	4.52	4.99	/	Pass
DFT-s-OFDM 64 QAM	2502.5	Outer_Full	4.55	5.03	/	Pass
	2535	Outer_Full	4.55	5.03	/	Pass
	2567.5	Outer_Full	4.55	5.02	/	Pass
DFT-s-OFDM 256 QAM	2502.5	Outer_Full	4.54	5.04	/	Pass
	2535	Outer_Full	4.54	5.04	/	Pass
	2567.5	Outer_Full	4.54	5.05	/	Pass
CP-OFDM QPSK	2502.5	Outer_Full	4.53	5.06	/	Pass
	2535	Outer_Full	4.53	5.05	/	Pass
	2567.5	Outer_Full	4.54	5.07	/	Pass
CP-OFDM 16 QAM	2502.5	Outer_Full	4.53	5.03	/	Pass
	2535	Outer_Full	4.52	5.01	/	Pass
	2567.5	Outer_Full	4.52	5.02	/	Pass
CP-OFDM 64 QAM	2502.5	Outer_Full	4.55	5.01	/	Pass
	2535	Outer_Full	4.54	5.01	/	Pass
	2567.5	Outer_Full	4.55	5.04	/	Pass
CP-OFDM 256 QAM	2502.5	Outer_Full	4.51	5.02	/	Pass
	2535	Outer_Full	4.51	5.00	/	Pass
	2567.5	Outer_Full	4.51	5.04	/	Pass



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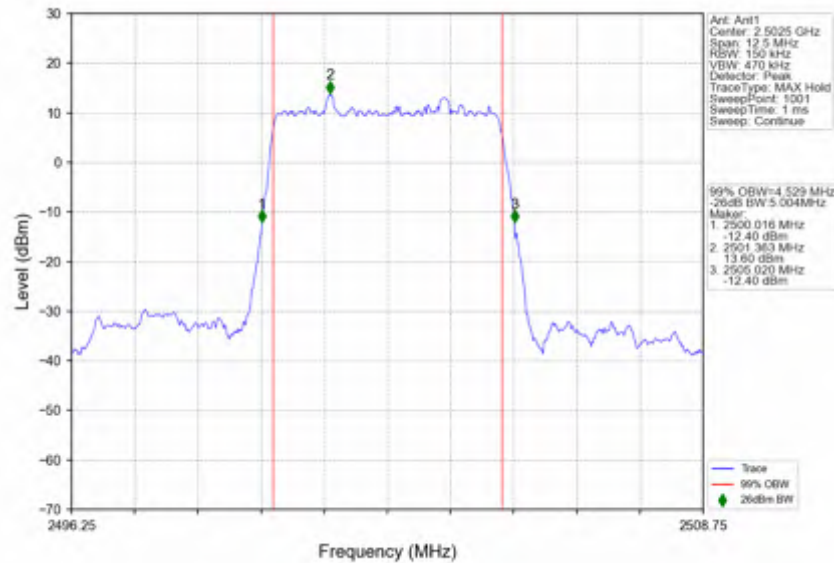
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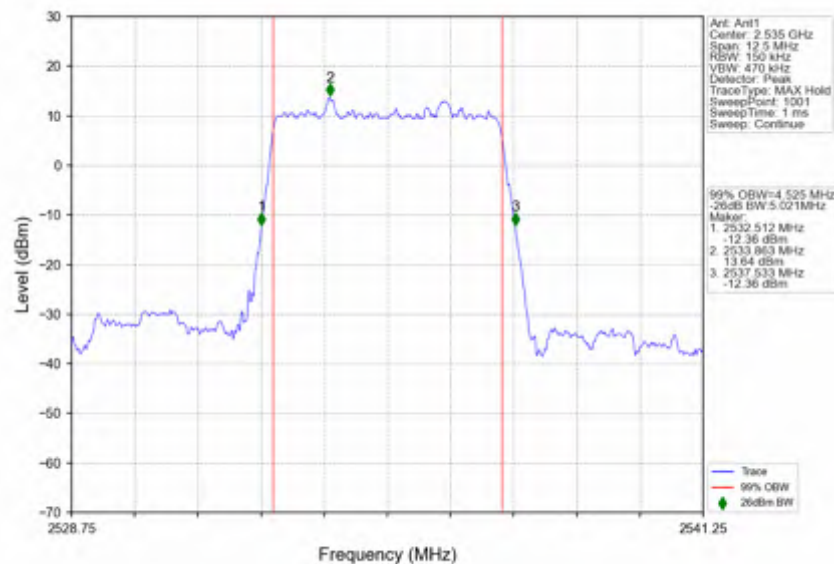
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3.1.2 Test Graph

n7_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM PI/2 BPSK_2502.5MHz_Outer_Full



n7_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM PI/2 BPSK_2535MHz_Outer_Full



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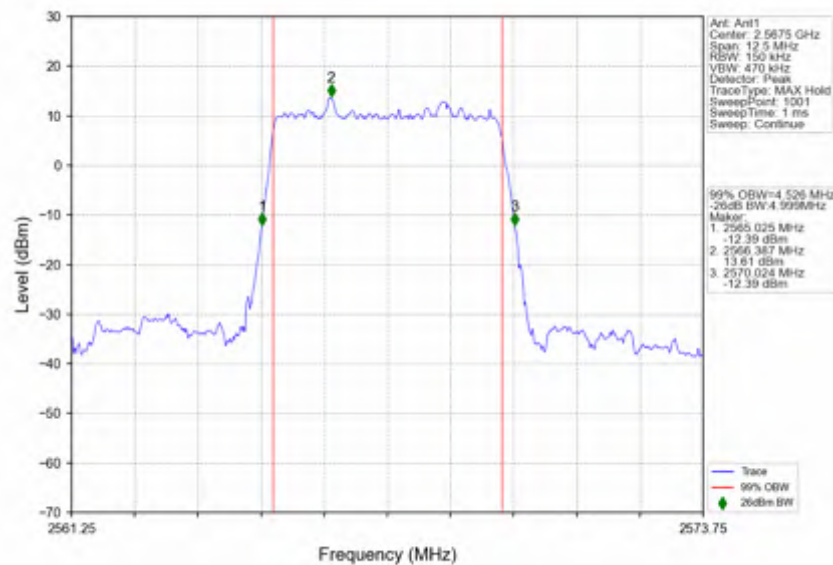
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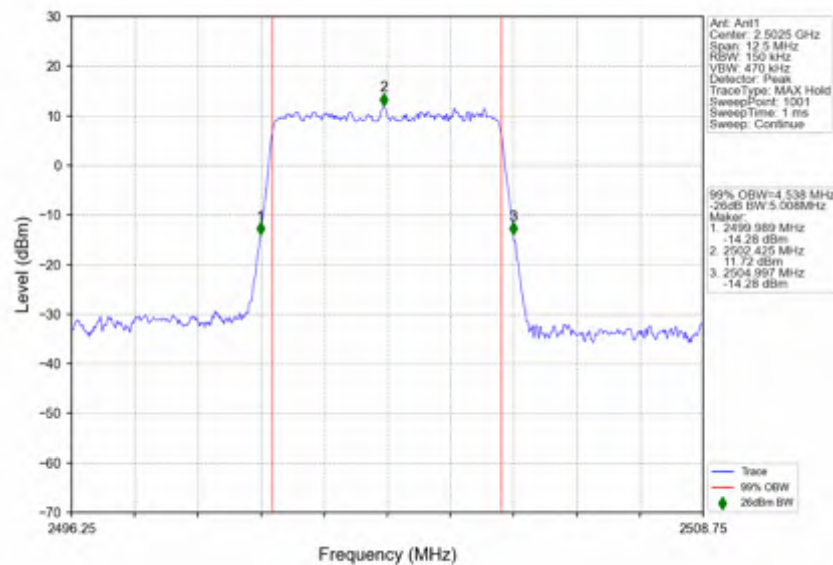
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n7_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM QPSK_2502.5MHz_Outer_Full



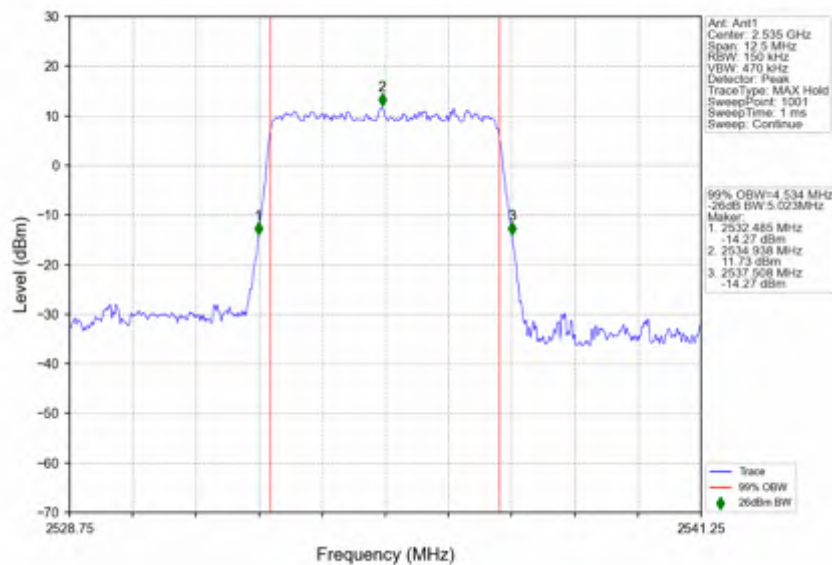
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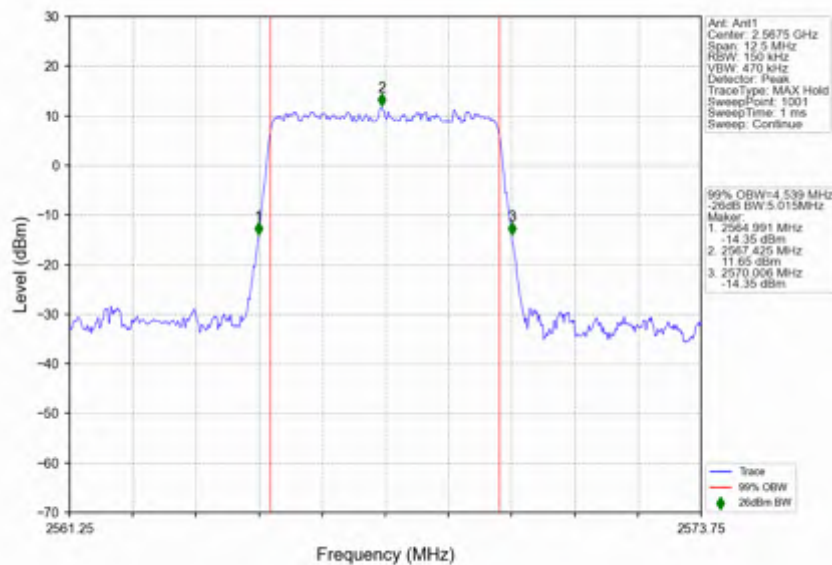
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n7_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM QPSK_2535MHz_Outer_Full



n7_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM QPSK_2567.5MHz_Outer_Full



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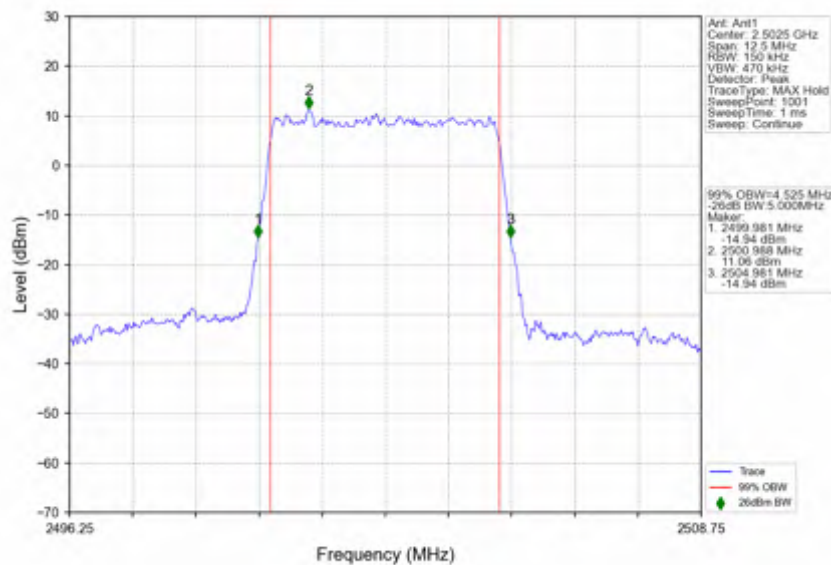
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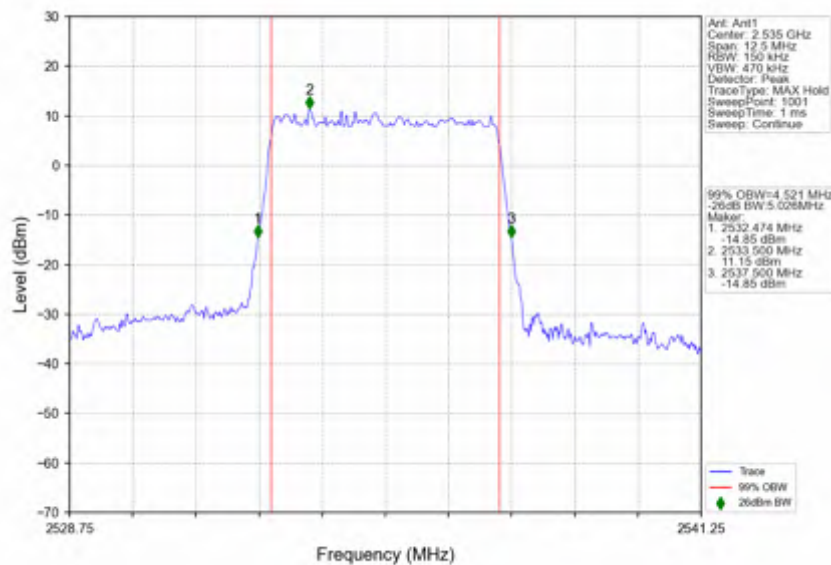
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n7_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM_16_QAM_2502.5MHz_Outer_Full



n7_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM_16_QAM_2535MHz_Outer_Full



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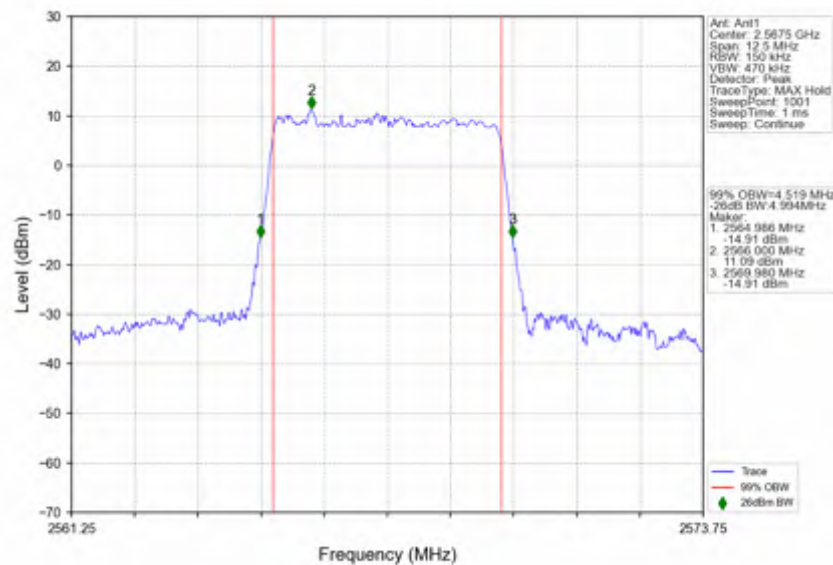
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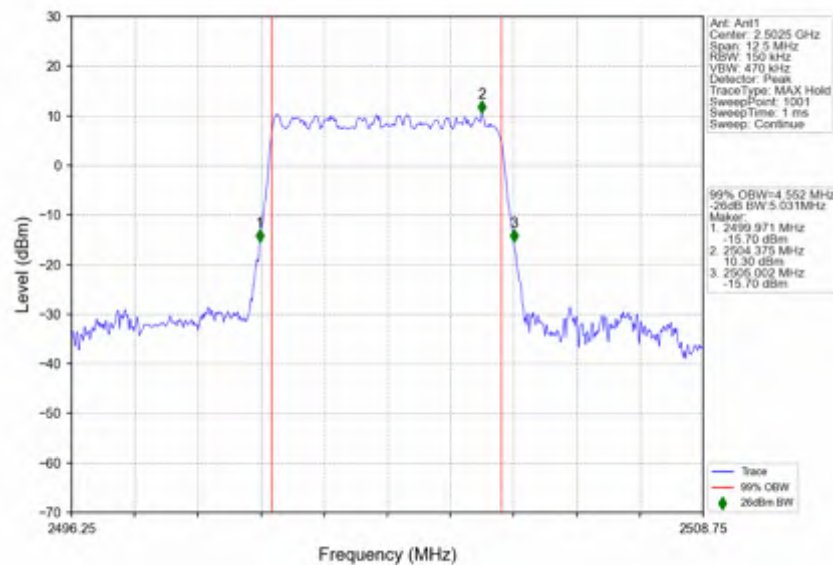
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n7_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM 16 QAM 2567.5MHz_Outer_Full



n7_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM 64 QAM 2502.5MHz_Outer_Full



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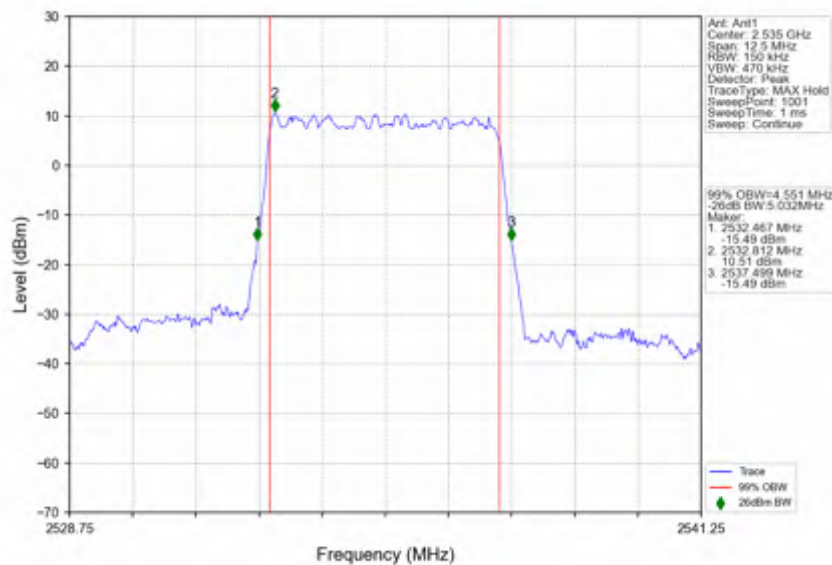
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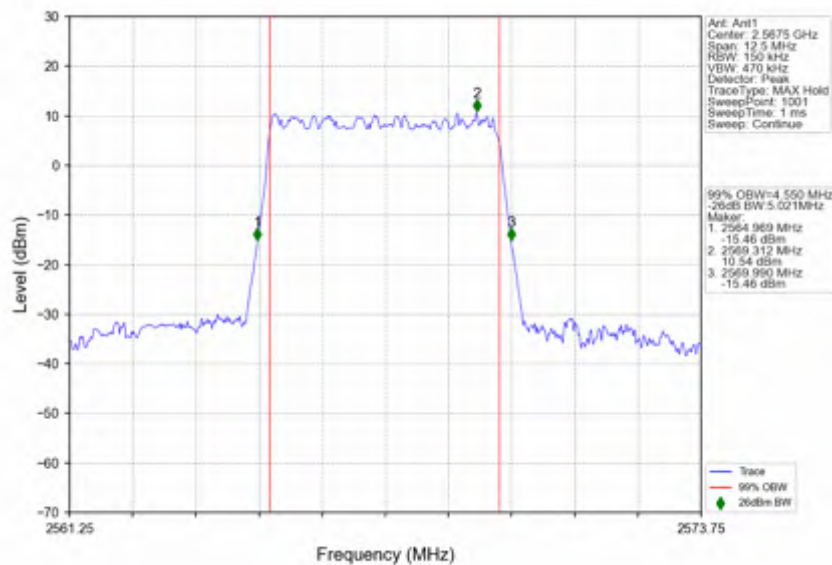
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n7_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM_64_QAM_2535MHz_Outer_Full



n7_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM_64_QAM_2567.5MHz_Outer_Full



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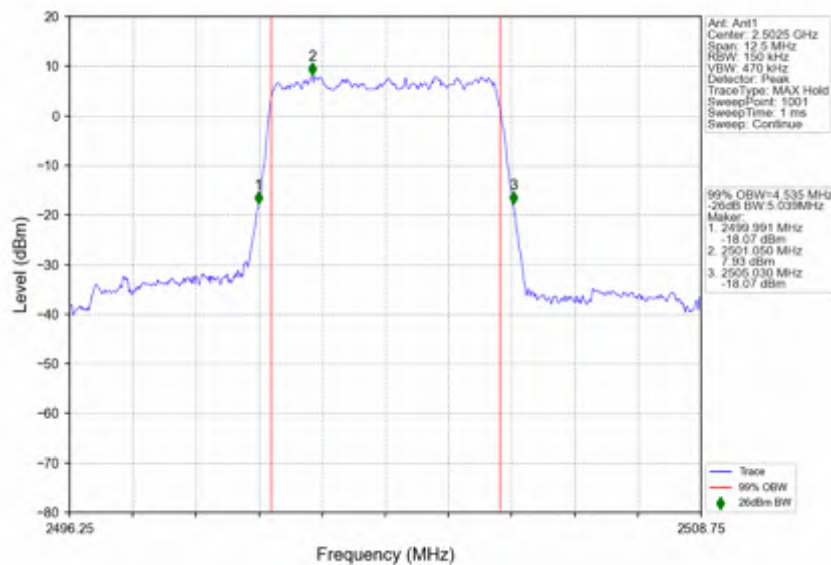
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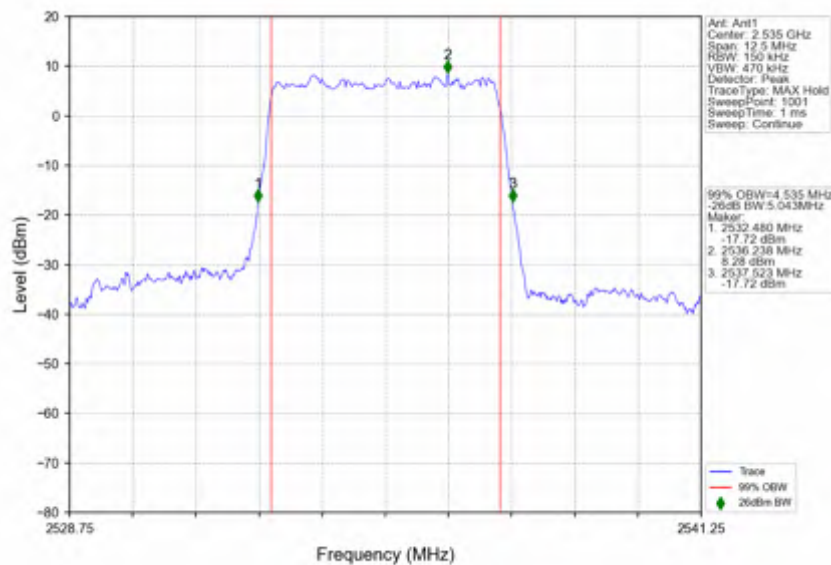
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n7_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM_256_QAM_2502.5MHz_Outer_Full



n7_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM_256_QAM_2535MHz_Outer_Full



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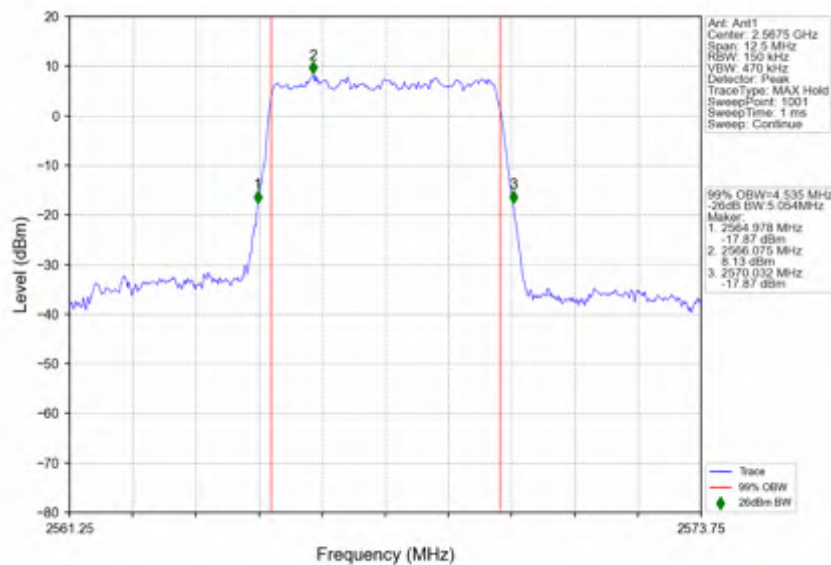
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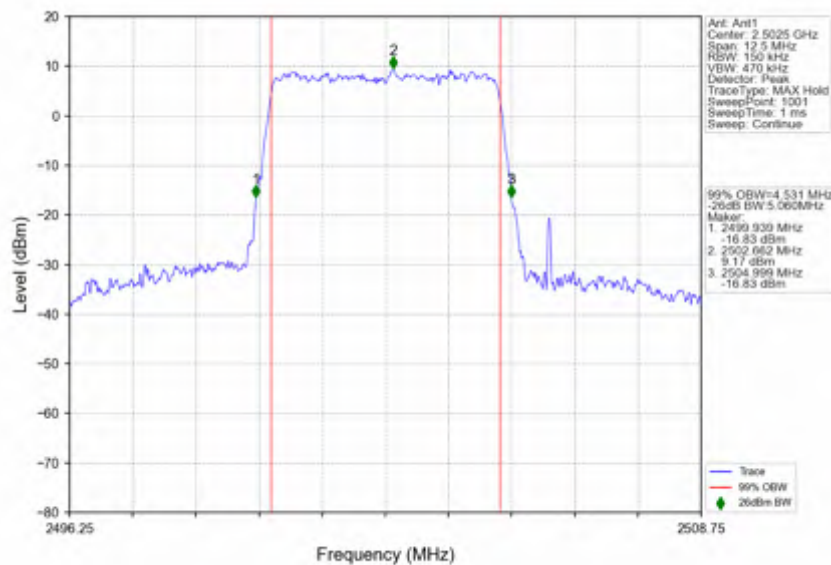
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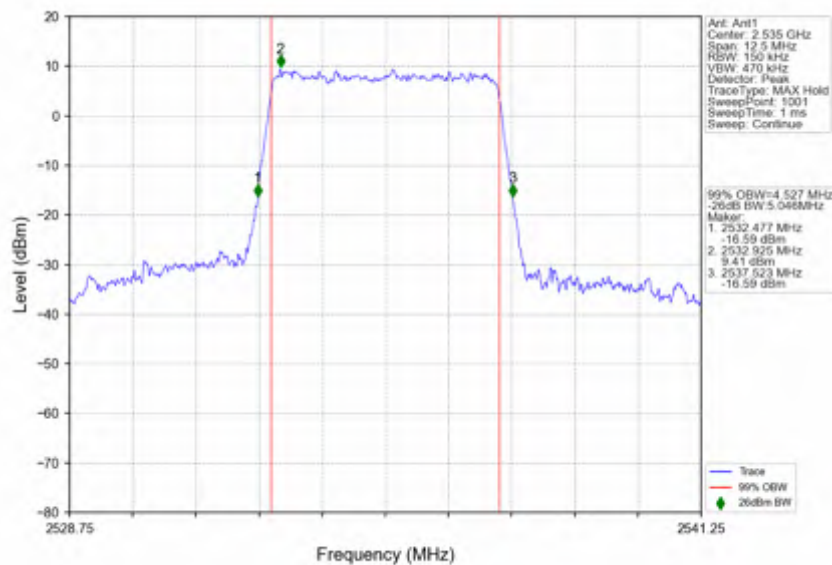
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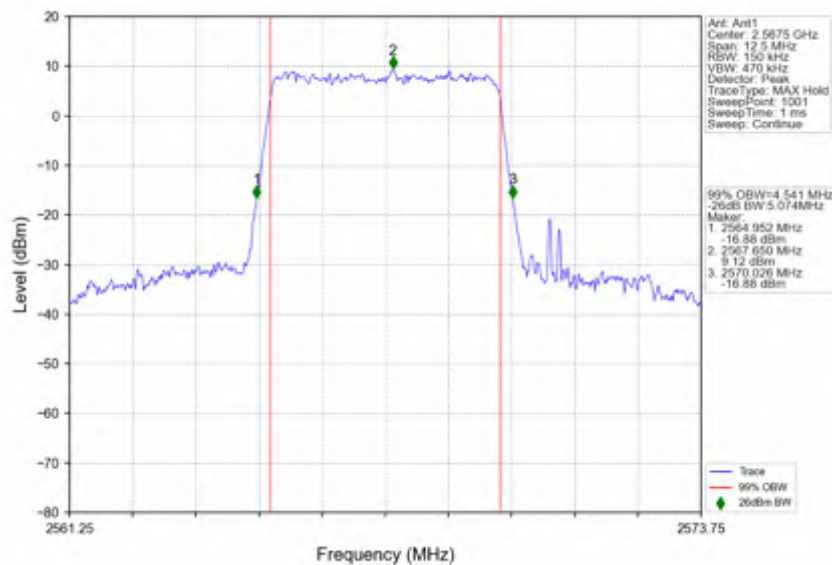
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n7_15kHz_SISO_NTNV_5MHz_CP-OFDM QPSK_2567.5MHz_Outer_Full



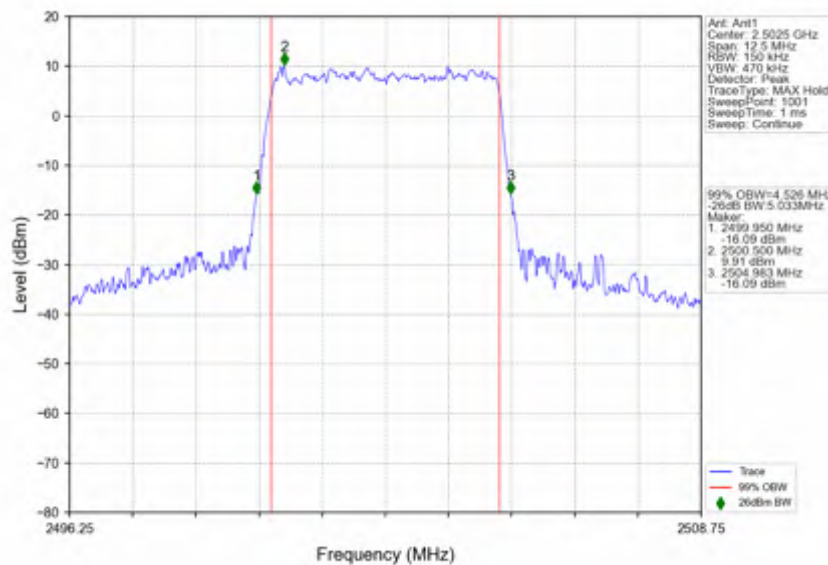
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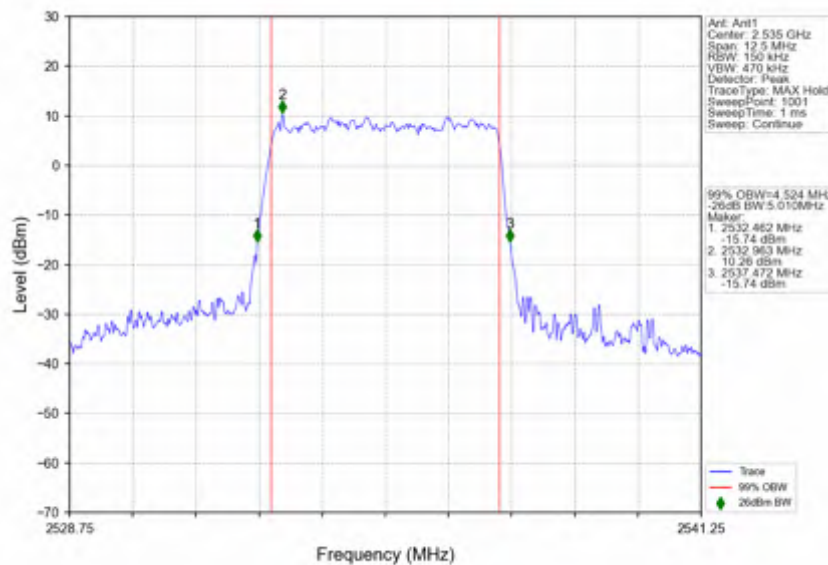
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n7_15kHz_SISO_NTNV_5MHz_CP-OFDM_16 QAM_2535MHz_Outer_Full



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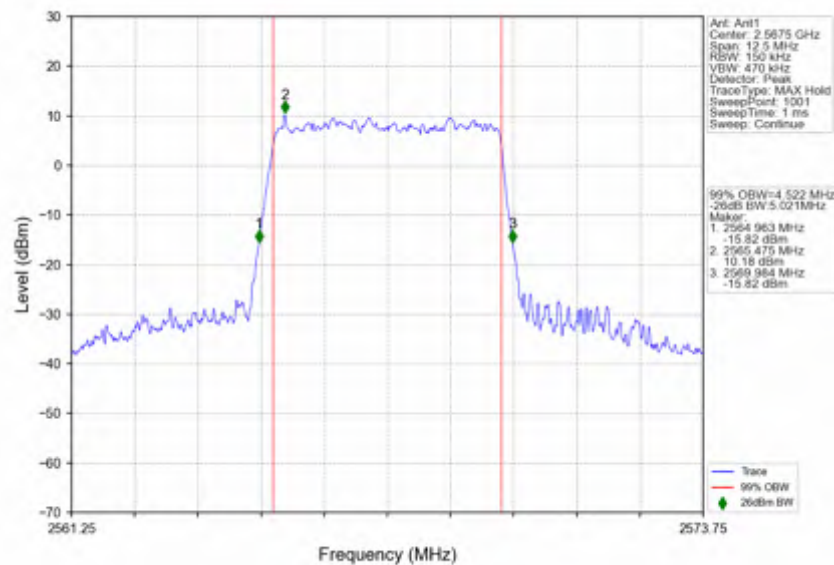
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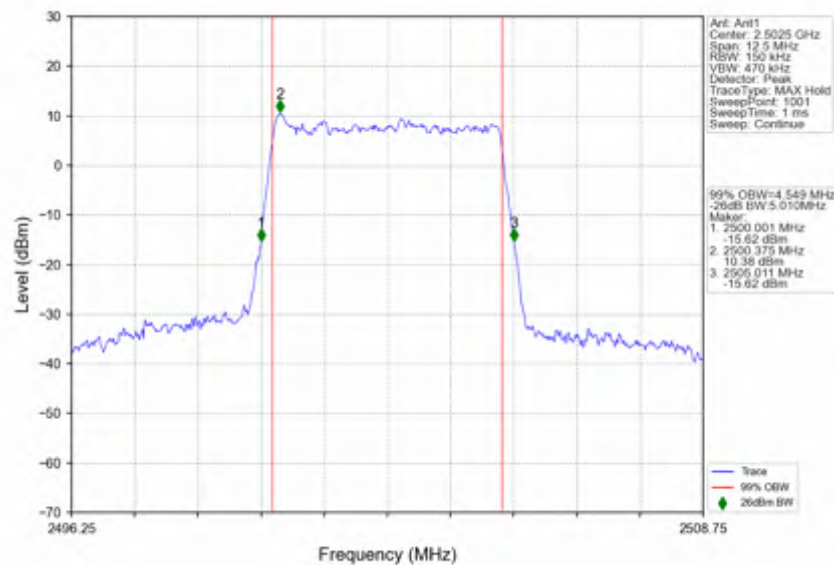
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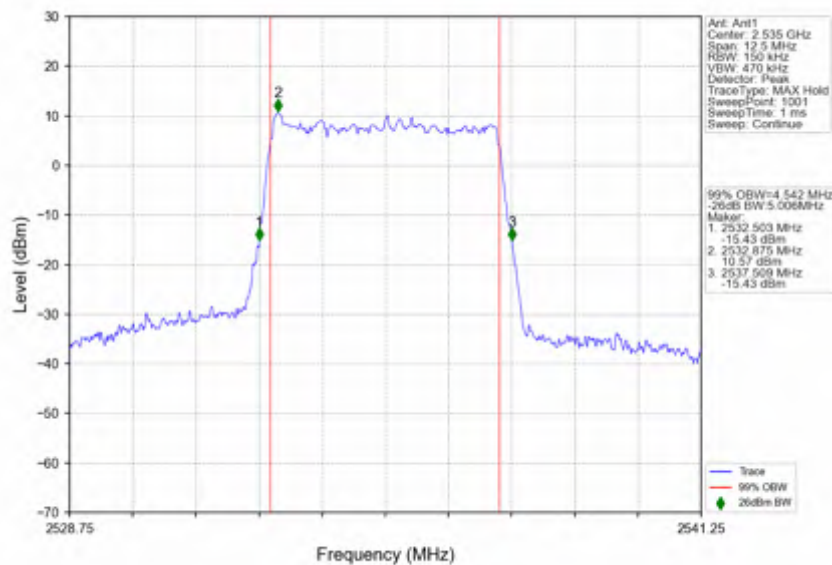


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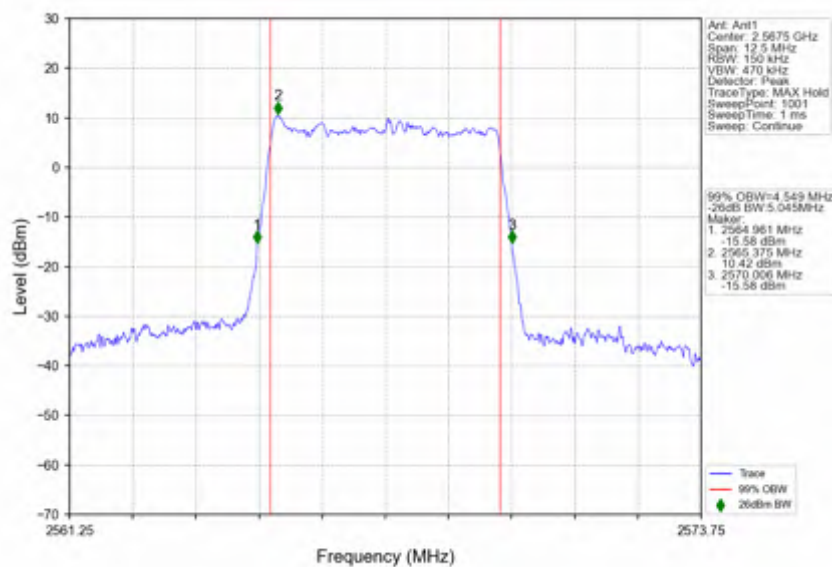
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n7_15kHz_SISO_NTNV_5MHz_CP-OFDM_64_QAM_2535MHz_Outer_Full



n7 15kHz SISO NTNV 5MHz CP-OFDM 64 QAM 2567.5MHz Outer Full

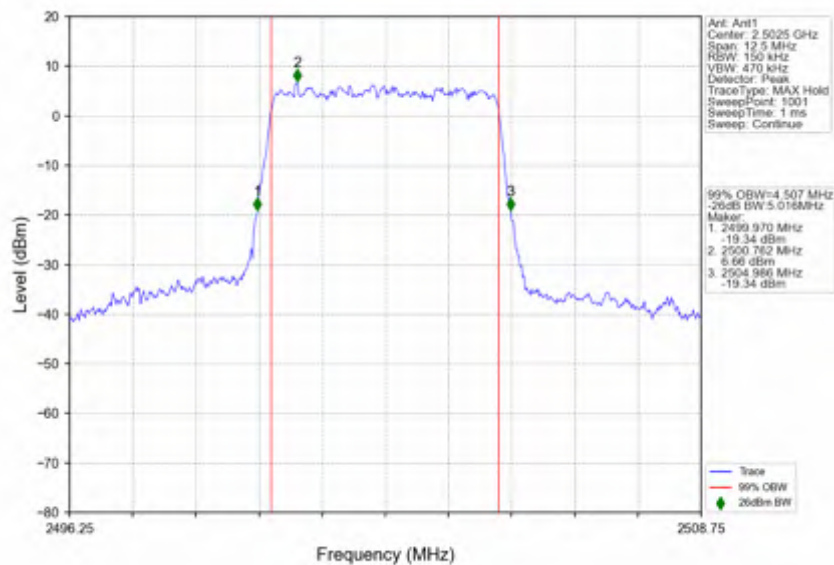


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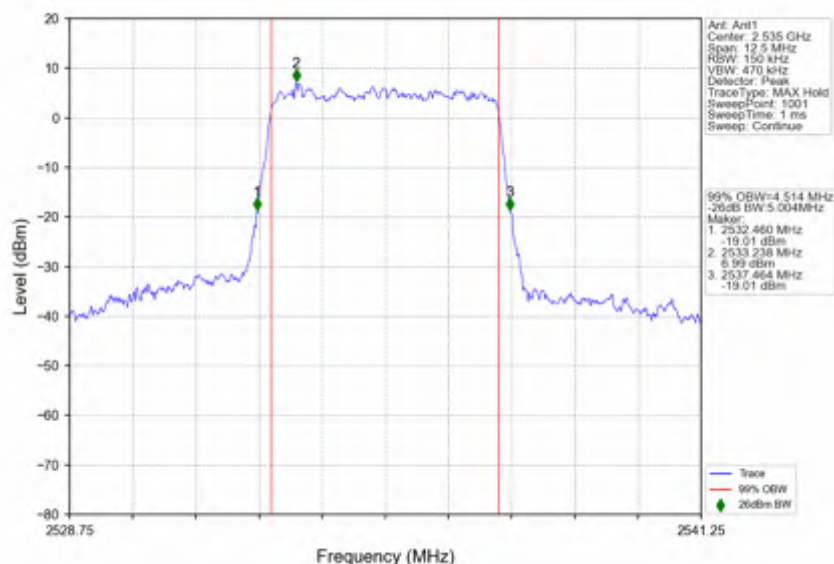
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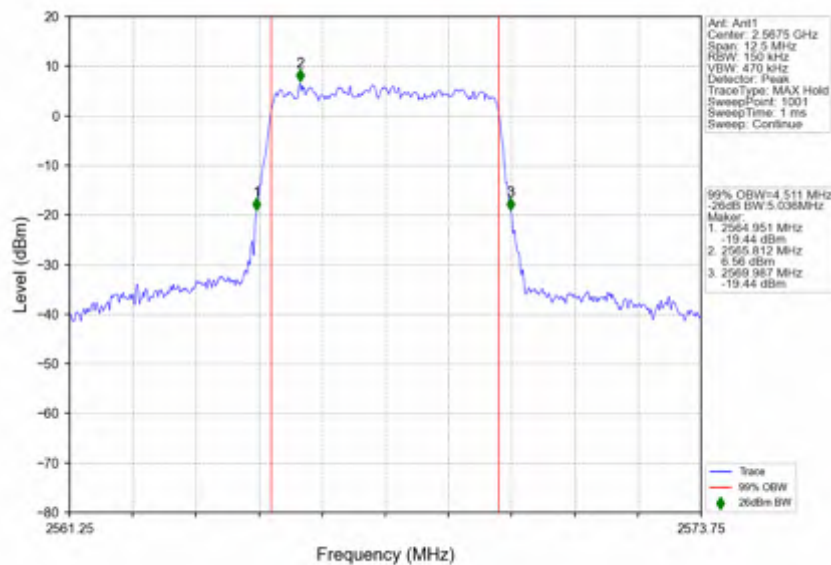
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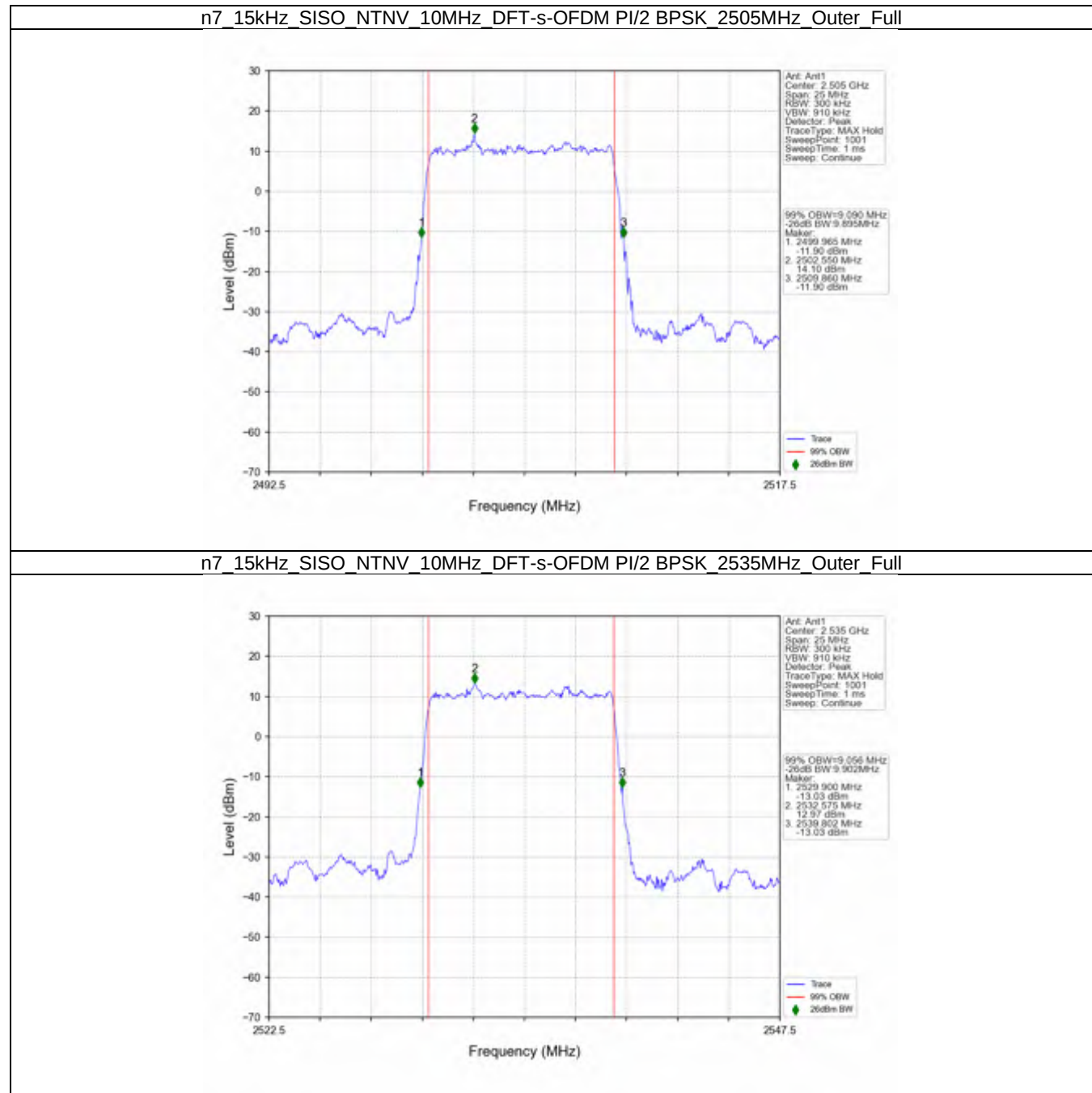
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3.2 15k_SISO_10MHz_NTNV

3.2.1 Test Result

5G NR n7 SCS=15kHz SISO 10MHz NTN						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	2505	Outer_Full	9.09	9.89	/	Pass
	2535	Outer_Full	9.06	9.90	/	Pass
	2565	Outer_Full	9.06	9.89	/	Pass
DFT-s-OFDM QPSK	2505	Outer_Full	9.05	10.03	/	Pass
	2535	Outer_Full	9.03	9.94	/	Pass
	2565	Outer_Full	9.02	9.96	/	Pass
DFT-s-OFDM 16 QAM	2505	Outer_Full	9.10	9.88	/	Pass
	2535	Outer_Full	9.07	9.97	/	Pass
	2565	Outer_Full	9.08	9.97	/	Pass
DFT-s-OFDM 64 QAM	2505	Outer_Full	9.03	9.93	/	Pass
	2535	Outer_Full	9.05	9.85	/	Pass
	2565	Outer_Full	9.01	9.83	/	Pass
DFT-s-OFDM 256 QAM	2505	Outer_Full	9.01	9.95	/	Pass
	2535	Outer_Full	9.06	14.65	/	Pass
	2565	Outer_Full	9.05	14.69	/	Pass
CP-OFDM QPSK	2505	Outer_Full	9.35	10.25	/	Pass
	2535	Outer_Full	9.35	10.20	/	Pass
	2565	Outer_Full	9.35	10.13	/	Pass
CP-OFDM 16 QAM	2505	Outer_Full	9.36	10.22	/	Pass
	2535	Outer_Full	9.39	10.19	/	Pass
	2565	Outer_Full	9.37	10.22	/	Pass
CP-OFDM 64 QAM	2505	Outer_Full	9.36	10.20	/	Pass
	2535	Outer_Full	9.37	10.23	/	Pass
	2565	Outer_Full	9.36	10.15	/	Pass
CP-OFDM 256 QAM	2505	Outer_Full	9.40	10.20	/	Pass
	2535	Outer_Full	9.42	10.24	/	Pass
	2565	Outer_Full	9.41	10.23	/	Pass

3.2.2 Test Graph



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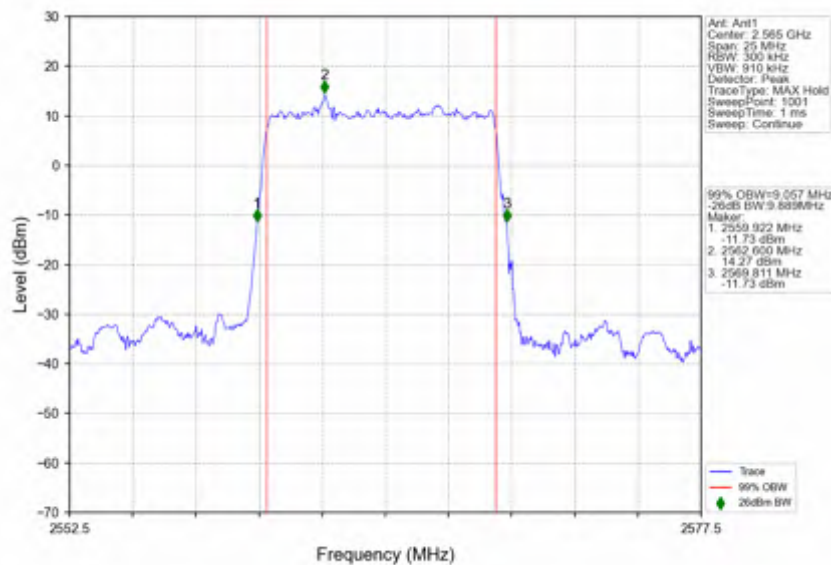
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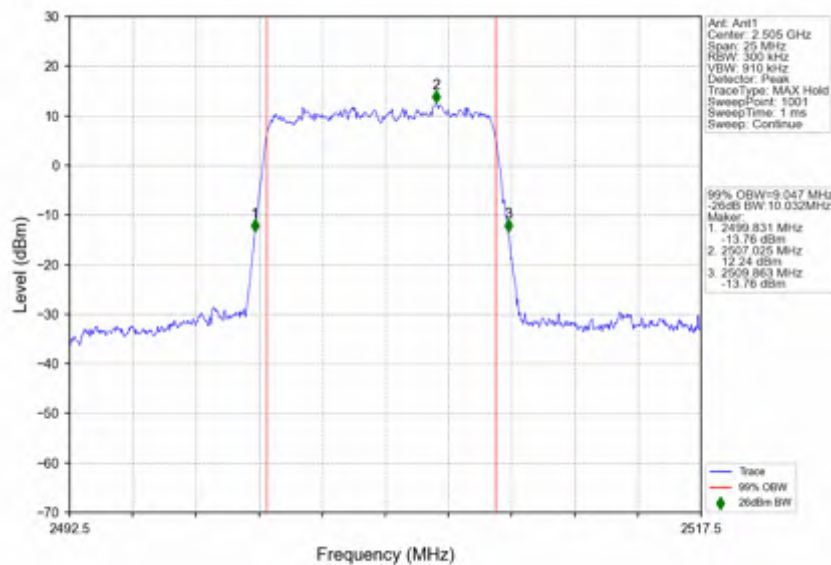
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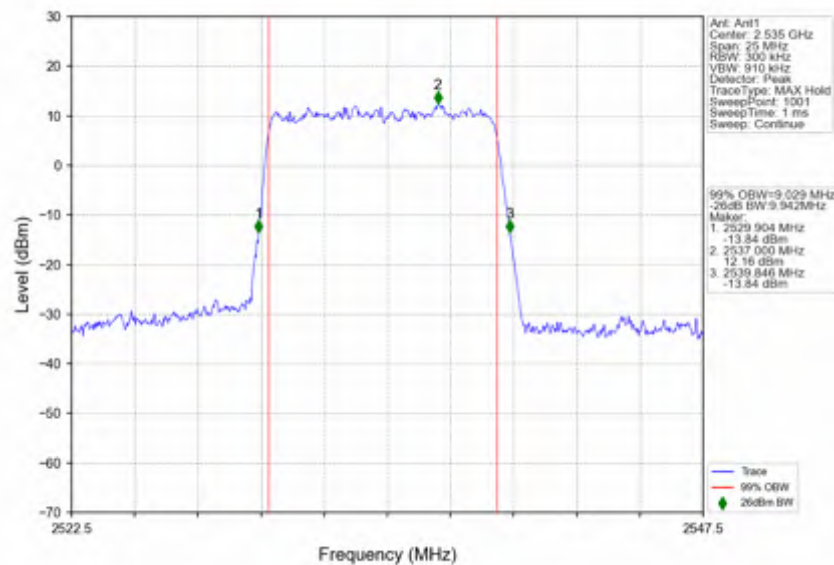
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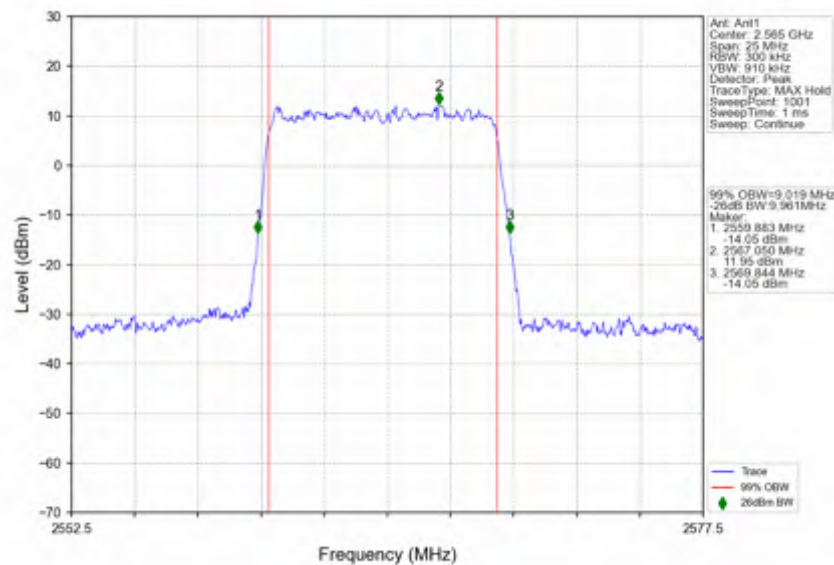
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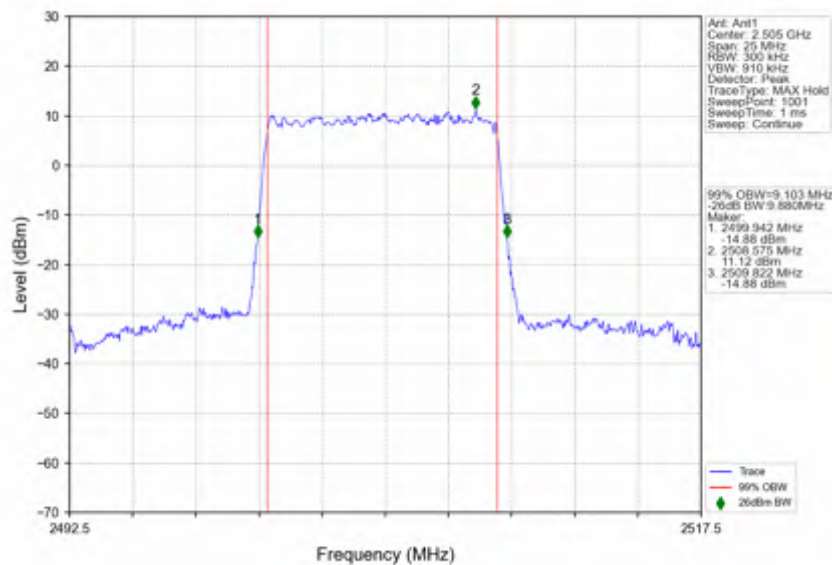
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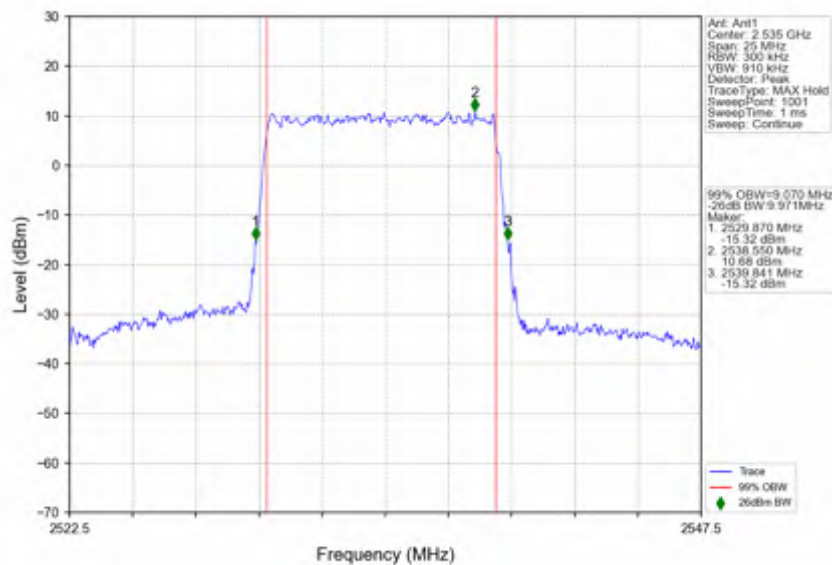
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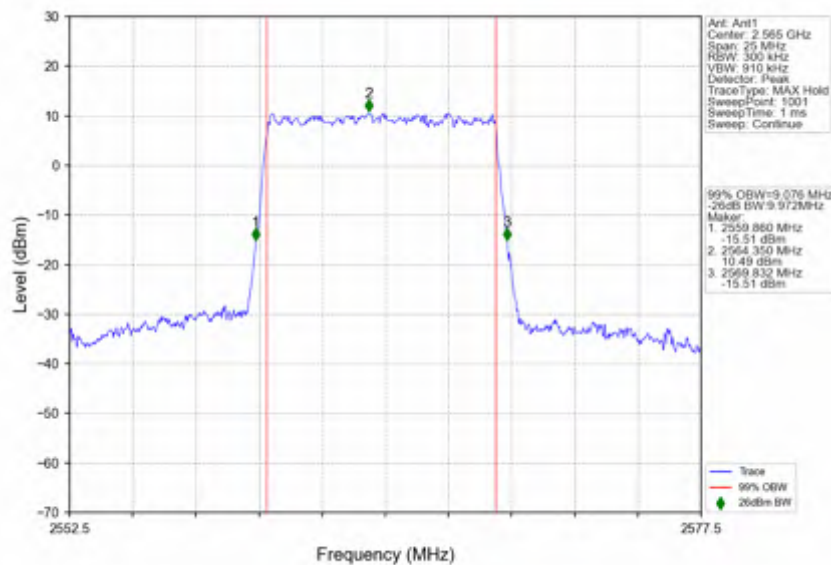
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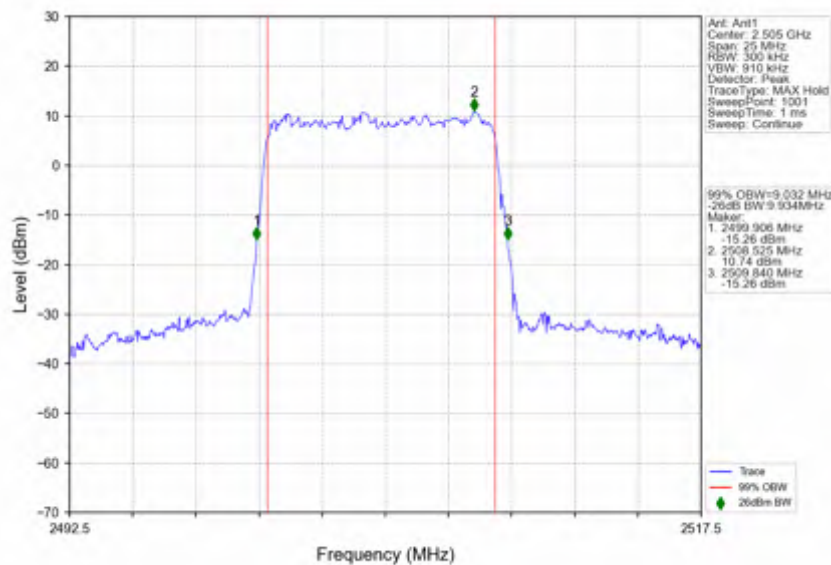
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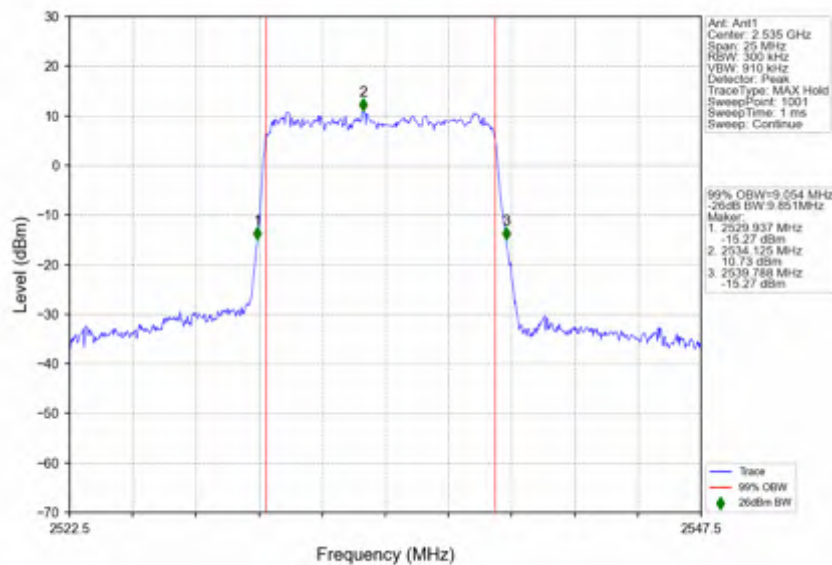
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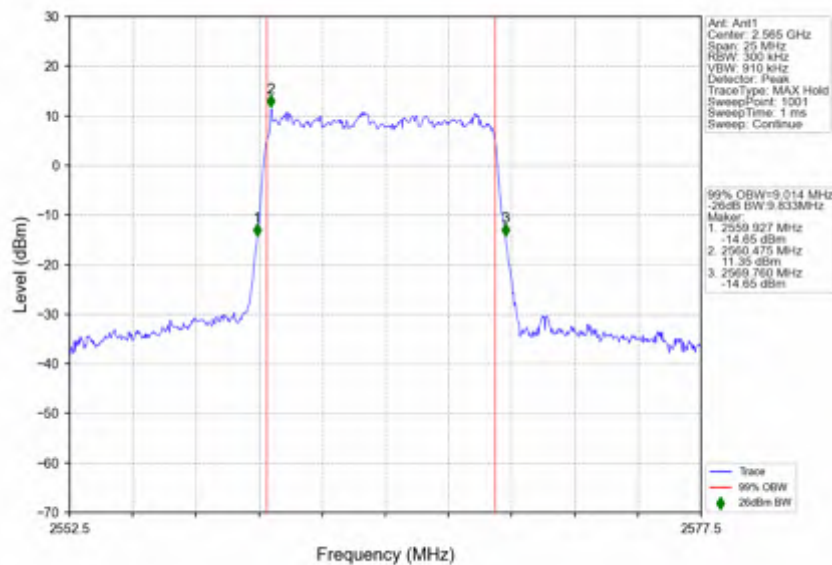
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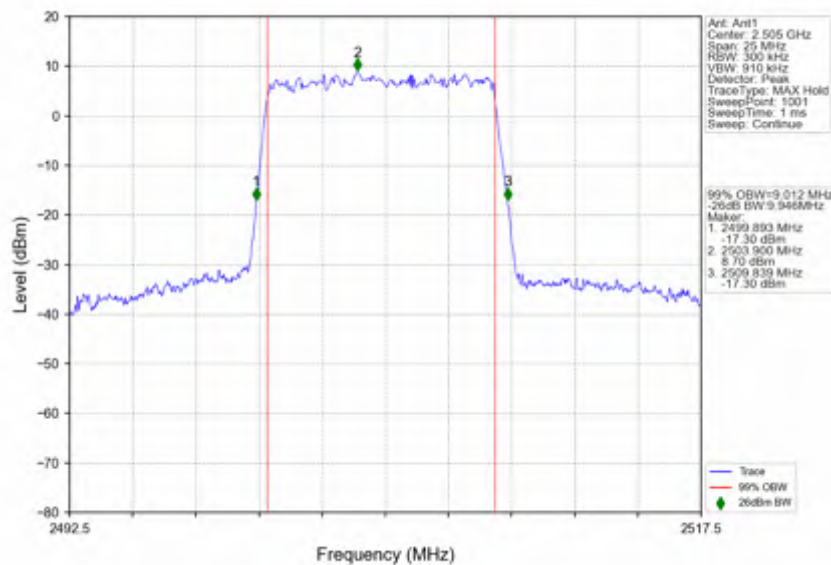
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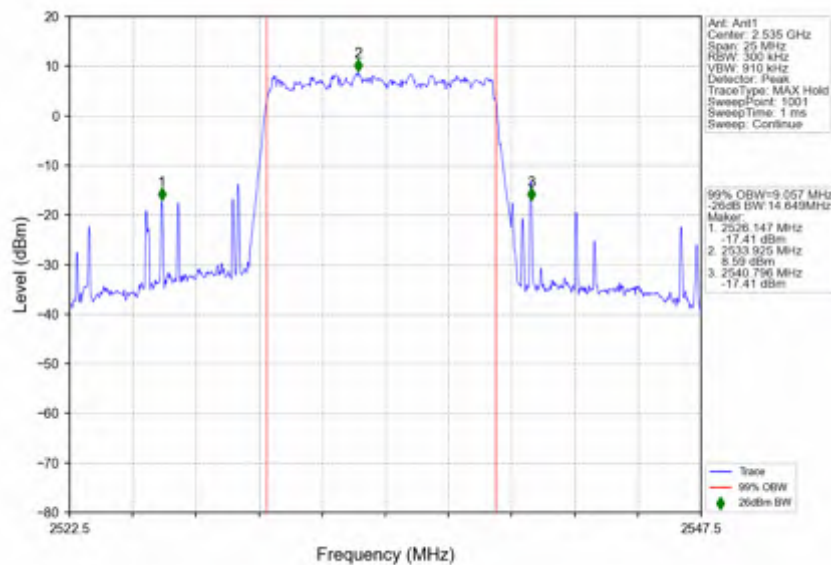
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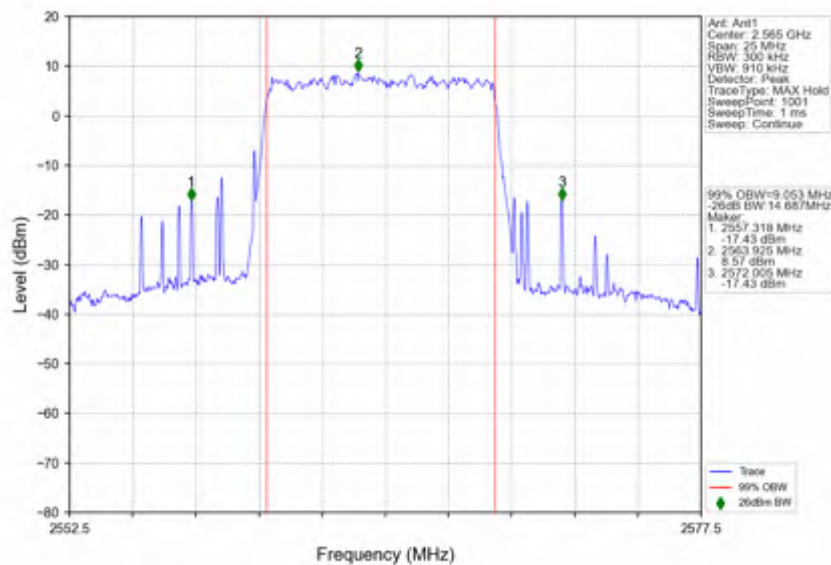
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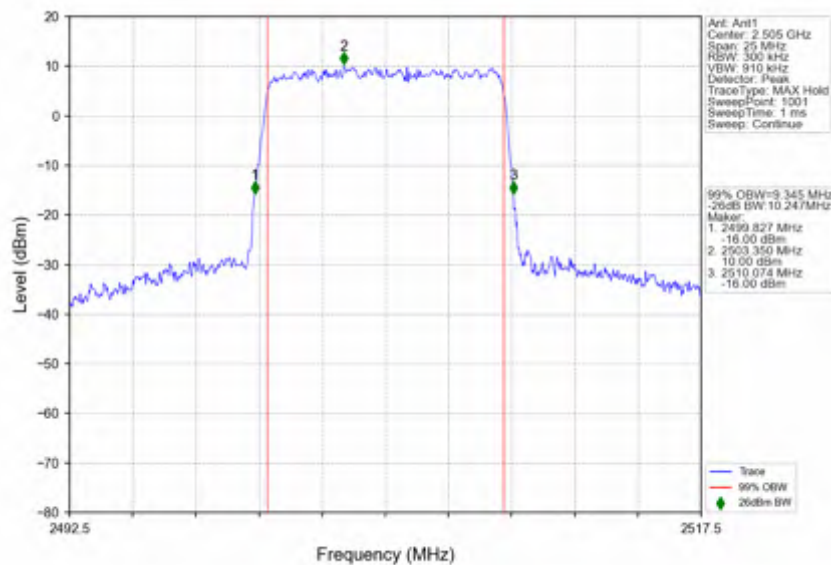
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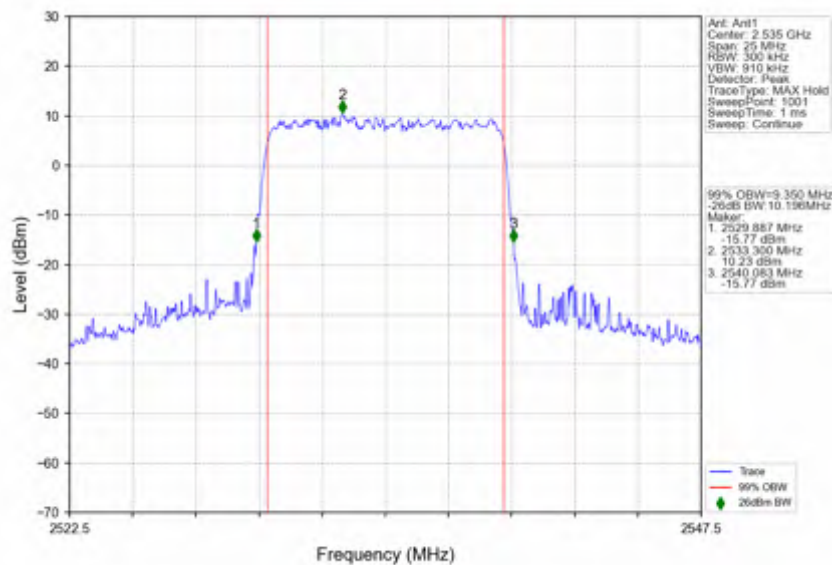


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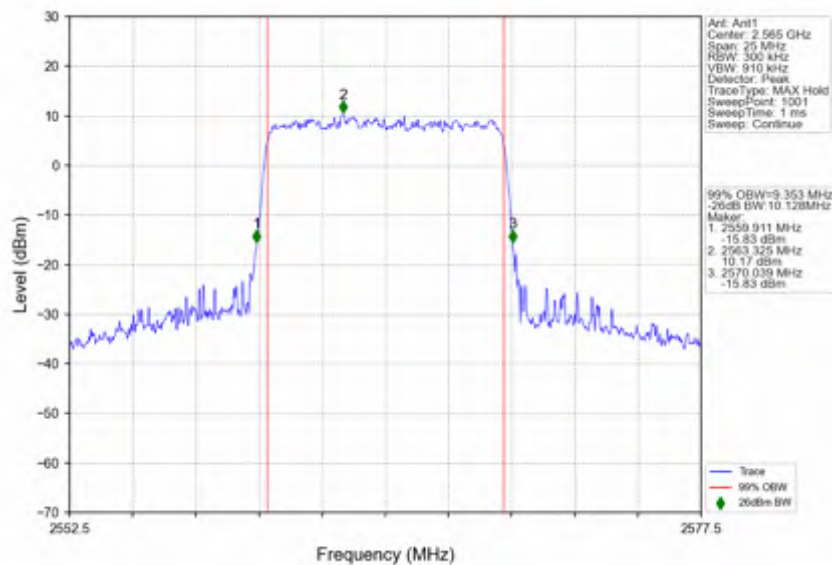
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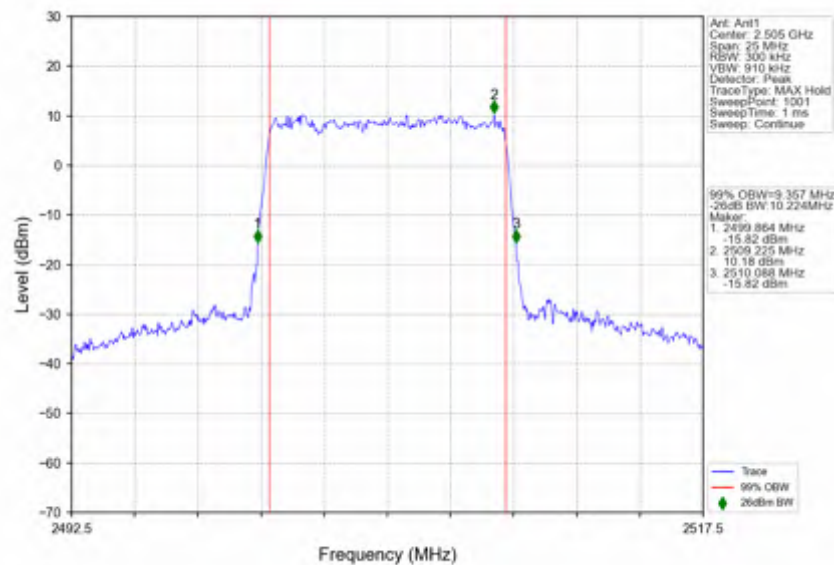


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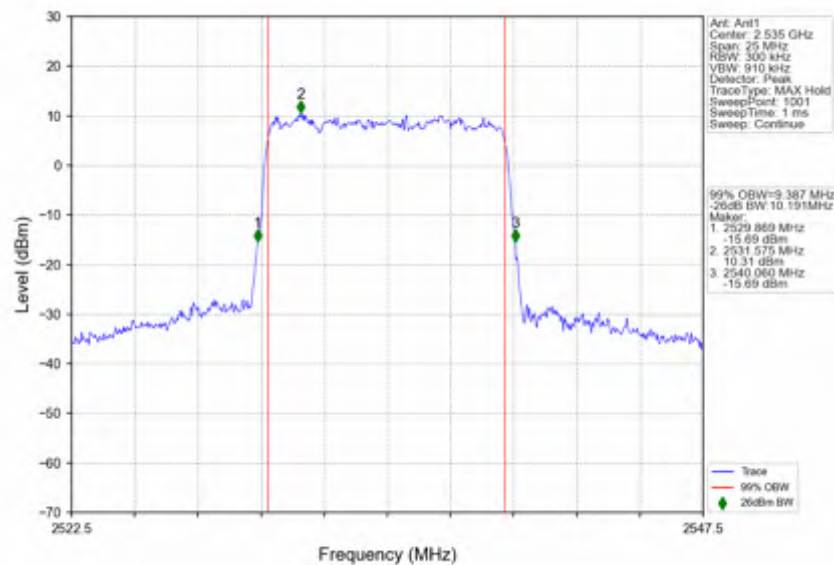
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n7_15kHz_SISO_NTNV_10MHz_CP-OFDM_16_QAM_2505MHz_Outer_Full



n7_15kHz_SISO_NTNV_10MHz_CP-OFDM_16_QAM_2535MHz_Outer_Full

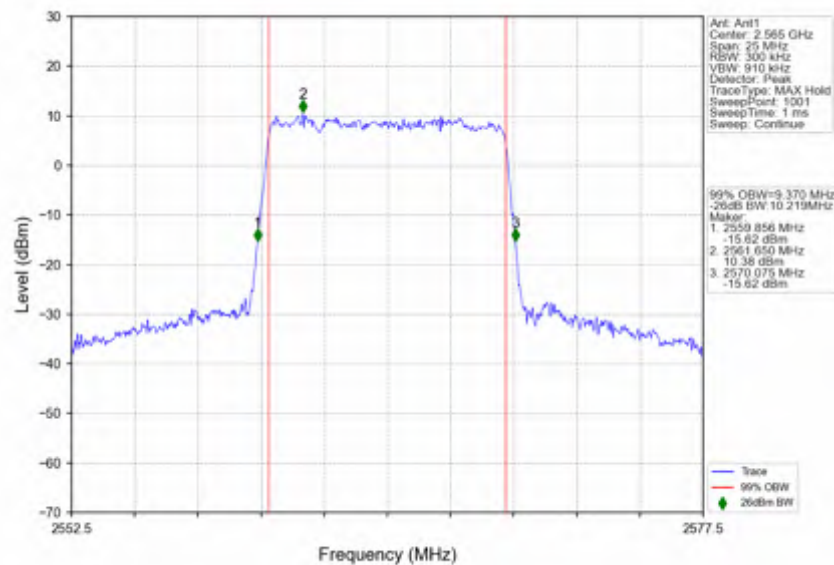


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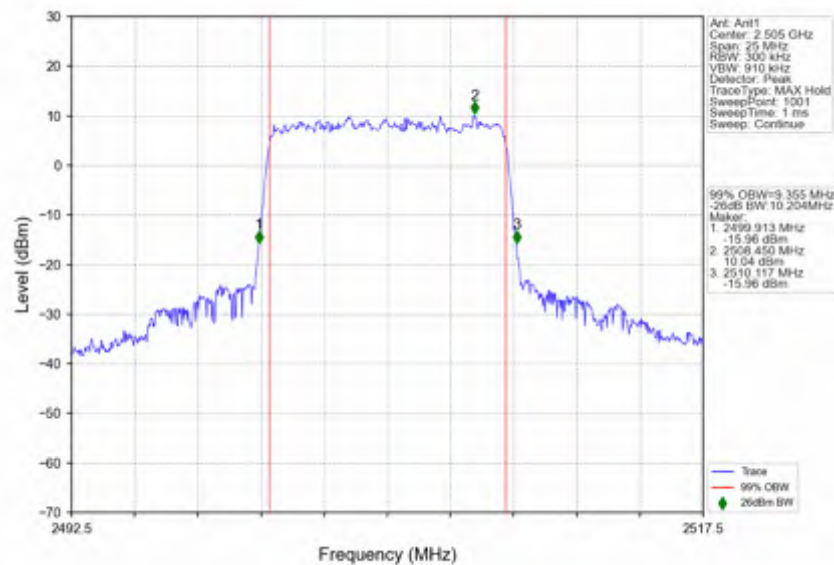
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n7_15kHz_SISO_NTNV_10MHz_CP-OFDM 16 QAM_2565MHz_Outer_Full



n7_15kHz_SISO_NTNV_10MHz_CP-OFDM 64 QAM_2505MHz_Outer_Full



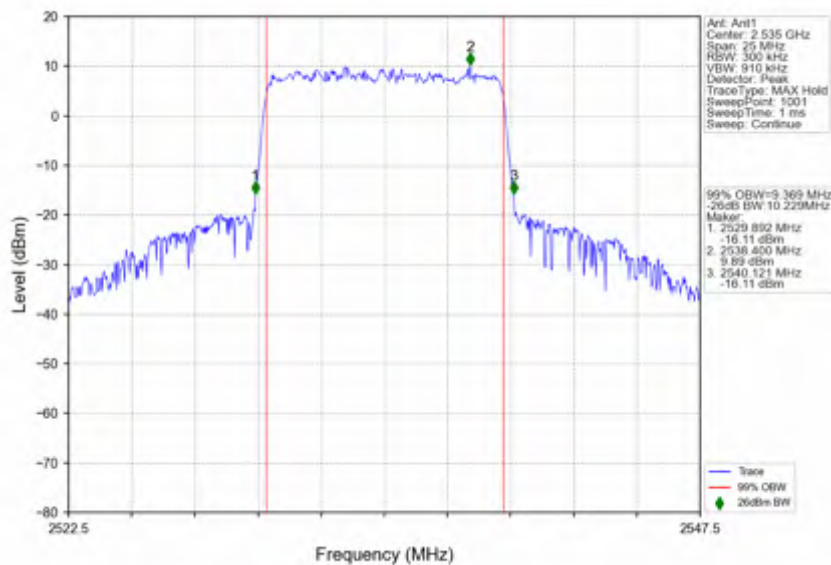
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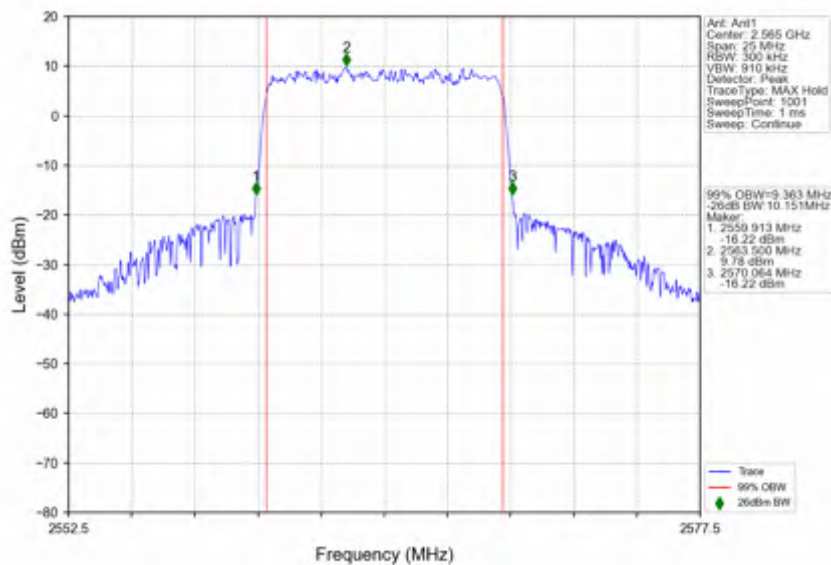
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n7_15kHz_SISO_NTNV_10MHz_CP-OFDM_64_QAM_2535MHz_Outer_Full



n7 15kHz SISO NTN 10MHz CP-OFDM 64 QAM 2565MHz Outer Full

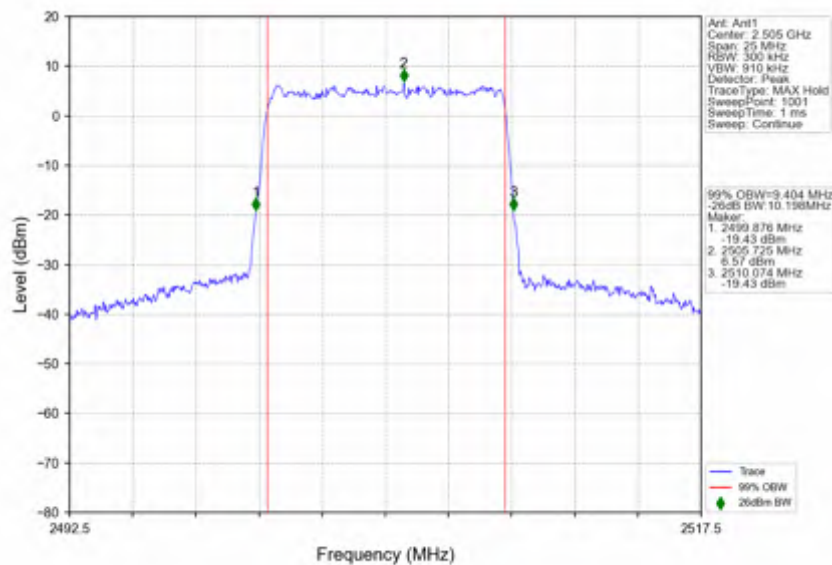


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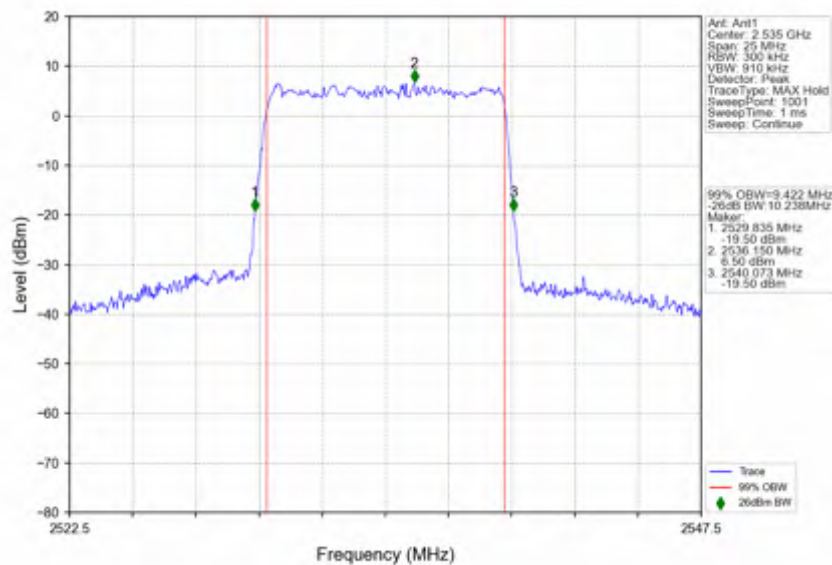
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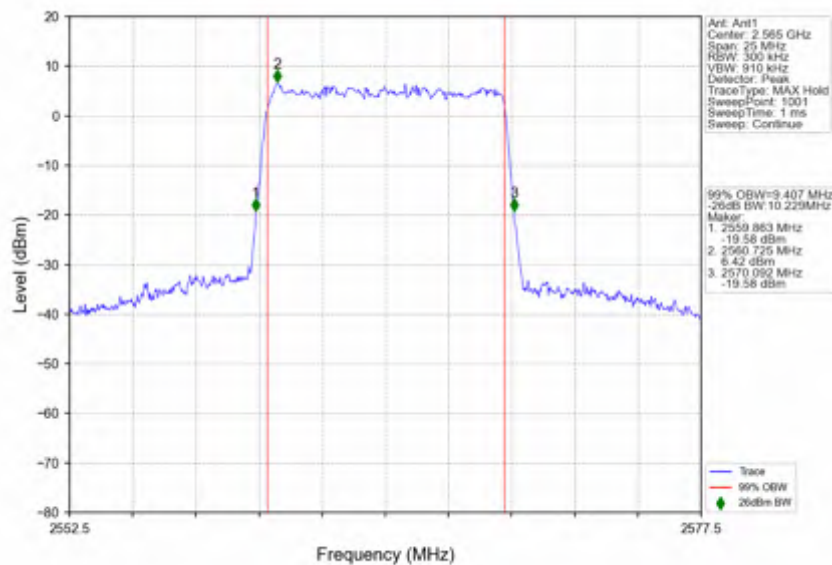


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3.3 15k_SISO_15MHz_NTNV

3.3.1 Test Result

5G NR n7 SCS=15kHz SISO 15MHz NTNv						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	2507.5	Outer_Full	13.54	14.71	/	Pass
	2535	Outer_Full	13.53	14.67	/	Pass
	2562.5	Outer_Full	13.53	14.69	/	Pass
DFT-s-OFDM QPSK	2507.5	Outer_Full	13.56	14.84	/	Pass
	2535	Outer_Full	13.57	14.74	/	Pass
	2562.5	Outer_Full	13.57	14.77	/	Pass
DFT-s-OFDM 16 QAM	2507.5	Outer_Full	13.59	14.72	/	Pass
	2535	Outer_Full	13.59	14.64	/	Pass
	2562.5	Outer_Full	13.60	14.70	/	Pass
DFT-s-OFDM 64 QAM	2507.5	Outer_Full	13.53	14.67	/	Pass
	2535	Outer_Full	13.55	14.63	/	Pass
	2562.5	Outer_Full	13.56	14.73	/	Pass
DFT-s-OFDM 256 QAM	2507.5	Outer_Full	13.52	14.67	/	Pass
	2535	Outer_Full	13.52	14.76	/	Pass
	2562.5	Outer_Full	13.50	14.72	/	Pass
CP-OFDM QPSK	2507.5	Outer_Full	14.23	15.28	/	Pass
	2535	Outer_Full	14.24	15.28	/	Pass
	2562.5	Outer_Full	14.24	15.28	/	Pass
CP-OFDM 16 QAM	2507.5	Outer_Full	14.21	15.27	/	Pass
	2535	Outer_Full	14.22	15.30	/	Pass
	2562.5	Outer_Full	14.21	15.33	/	Pass
CP-OFDM 64 QAM	2507.5	Outer_Full	14.18	15.31	/	Pass
	2535	Outer_Full	14.19	15.32	/	Pass
	2562.5	Outer_Full	14.21	15.32	/	Pass
CP-OFDM 256 QAM	2507.5	Outer_Full	14.25	15.35	/	Pass
	2535	Outer_Full	14.26	15.29	/	Pass
	2562.5	Outer_Full	14.26	15.27	/	Pass



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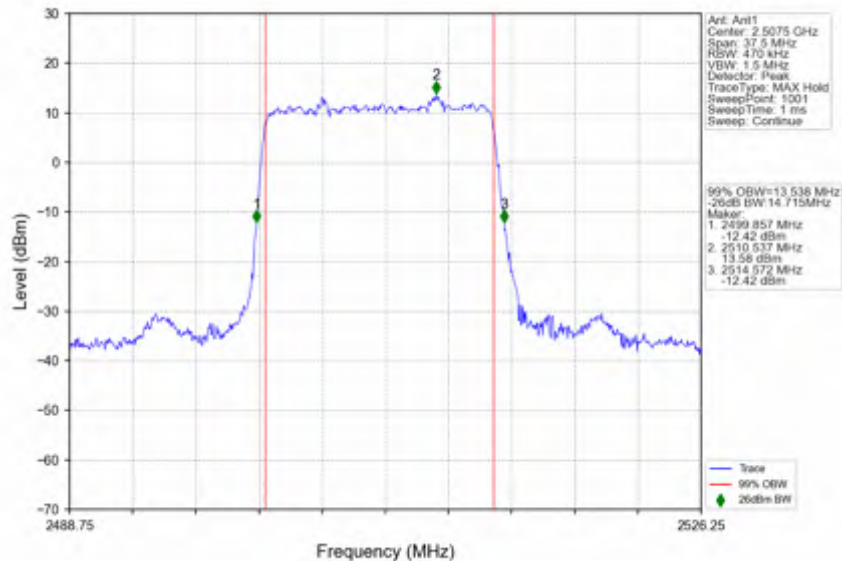
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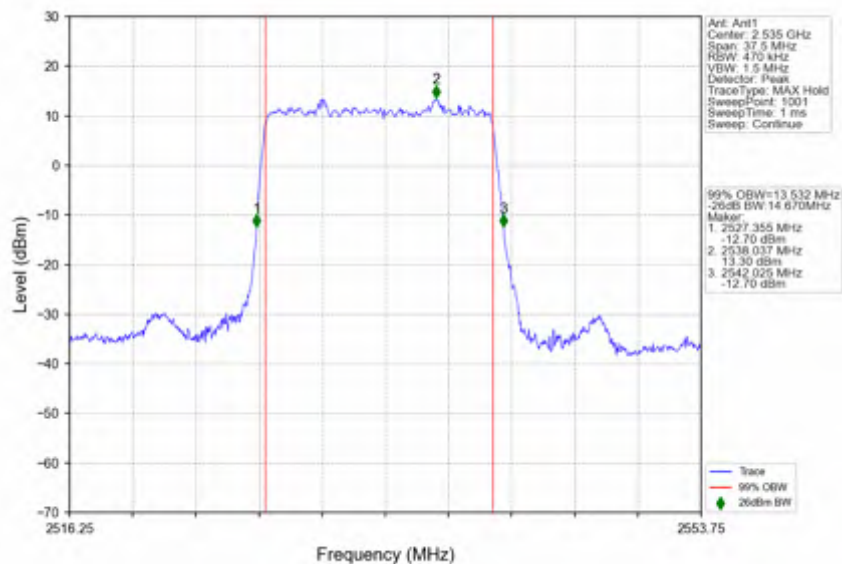
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3.3.2 Test Graph

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n7_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM_PI/2_BPSK_2535MHz_Outer_Full



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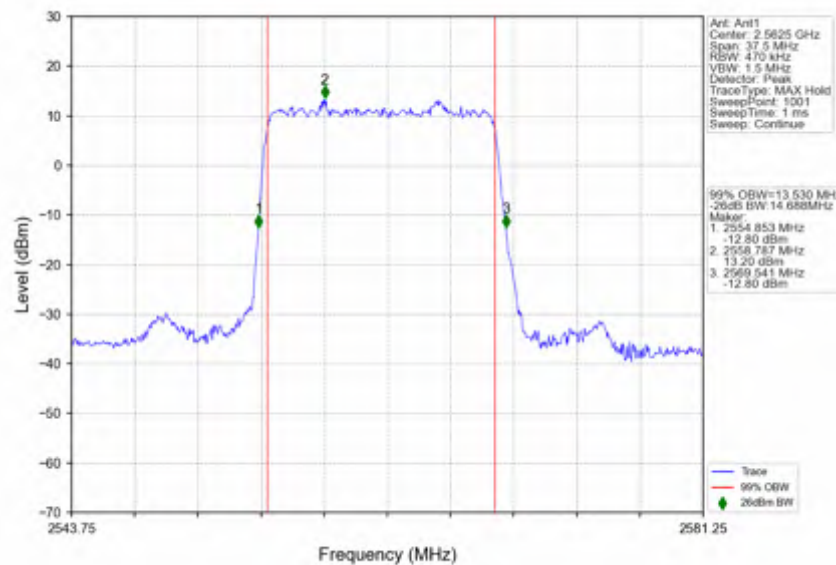
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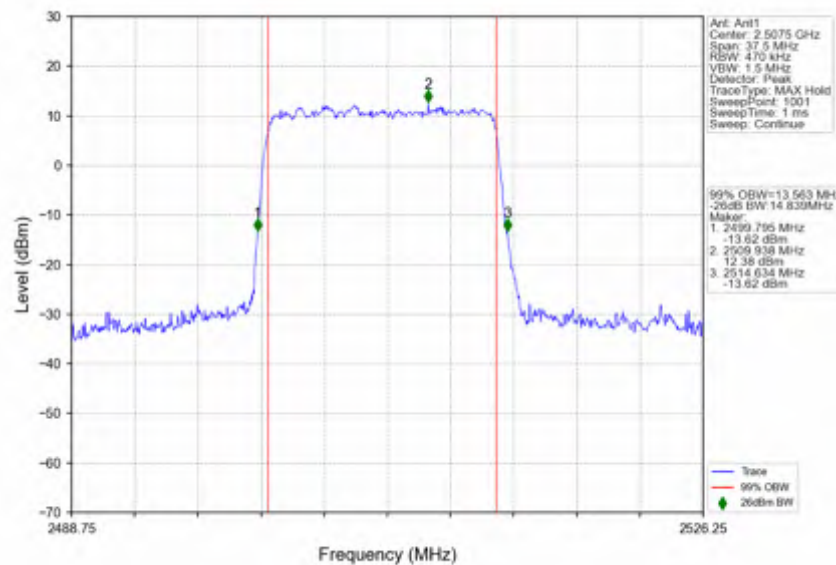
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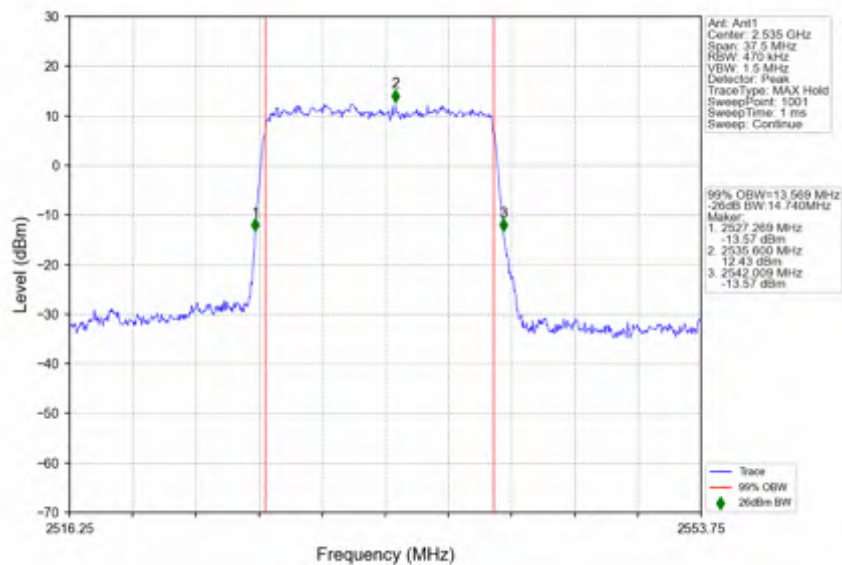
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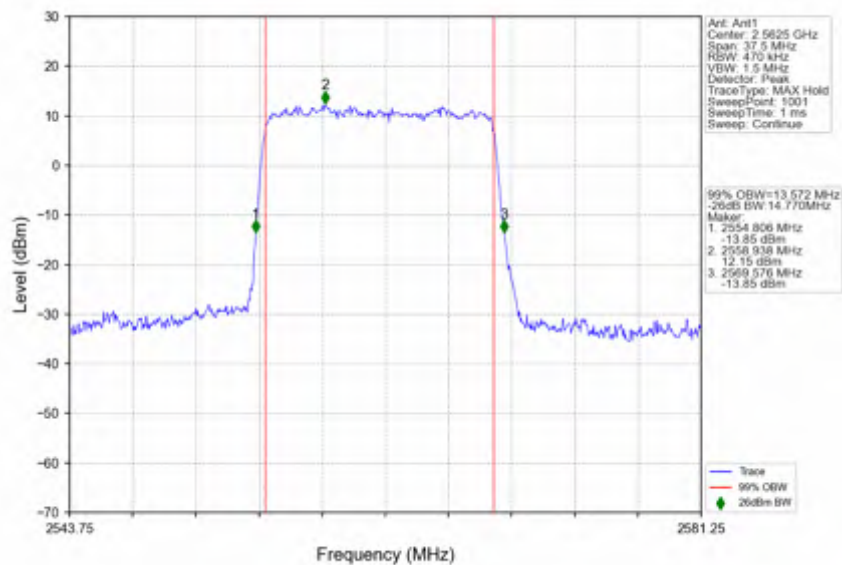
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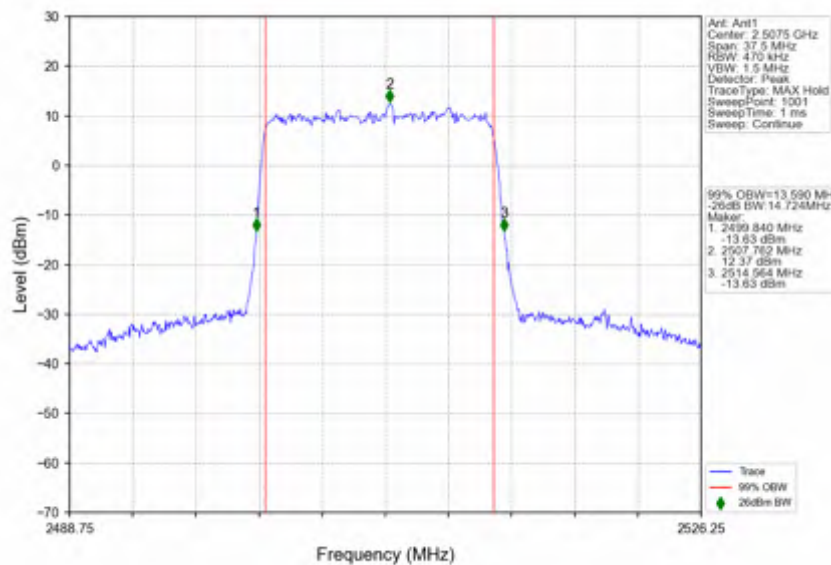
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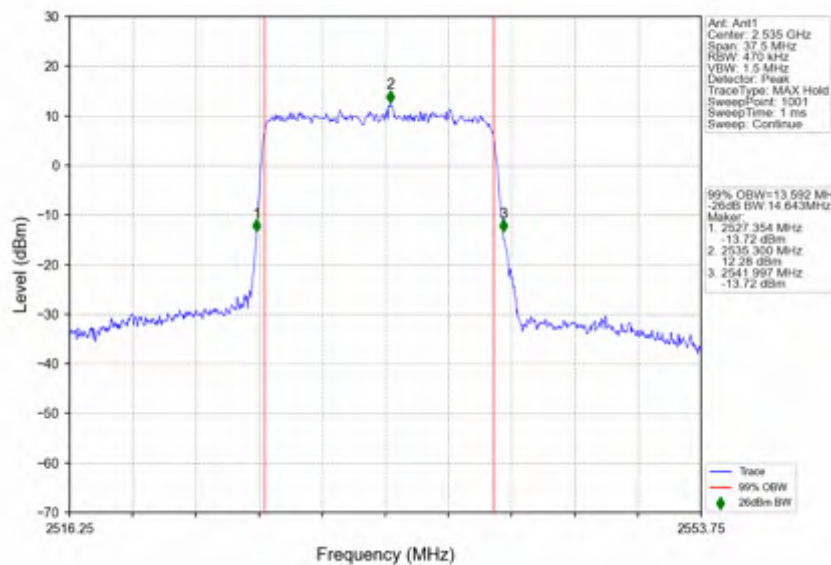
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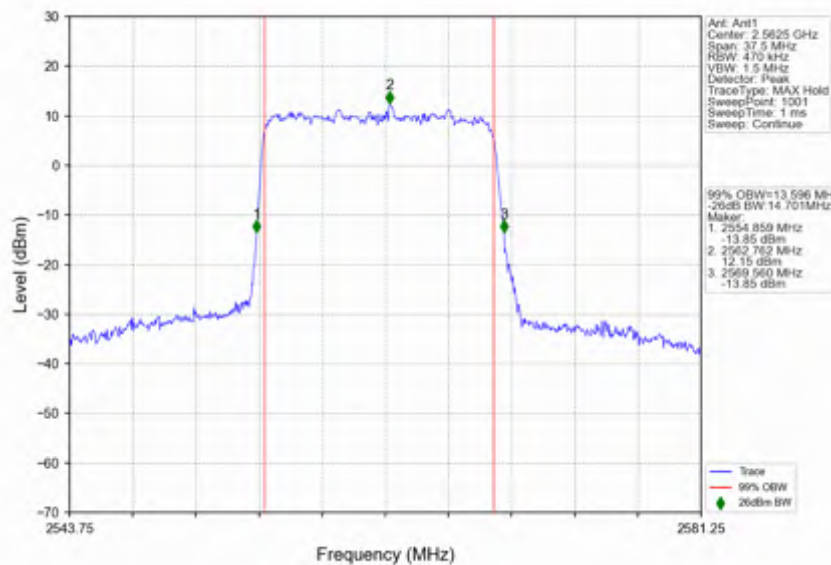


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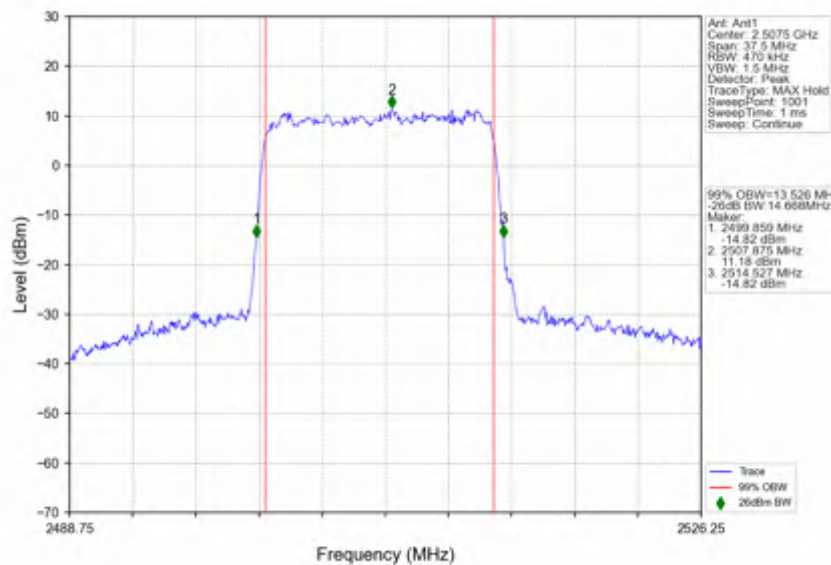
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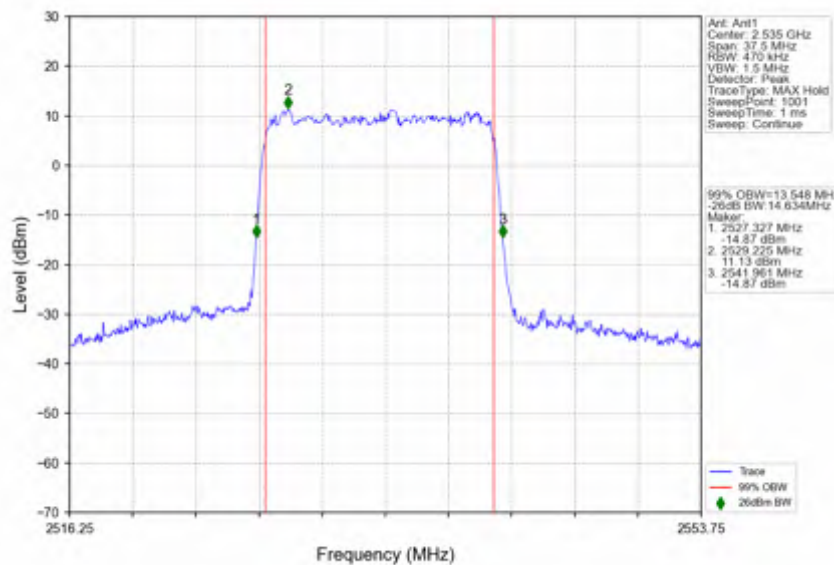
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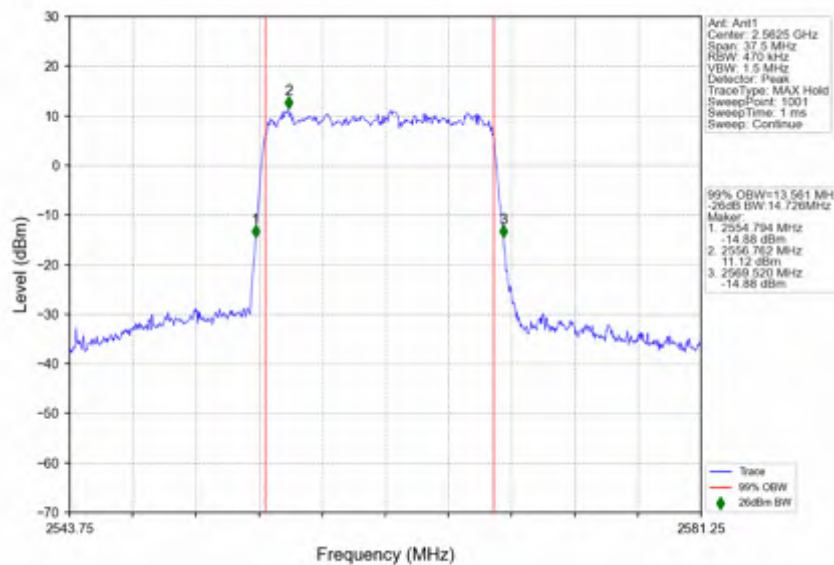
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0512-5125735000 0512-51257370 sgs.china@sgs.com

n7_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM_64_QAM_2535MHz_Outer_Full



n7_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM_64_QAM_2562.5MHz_Outer_Full



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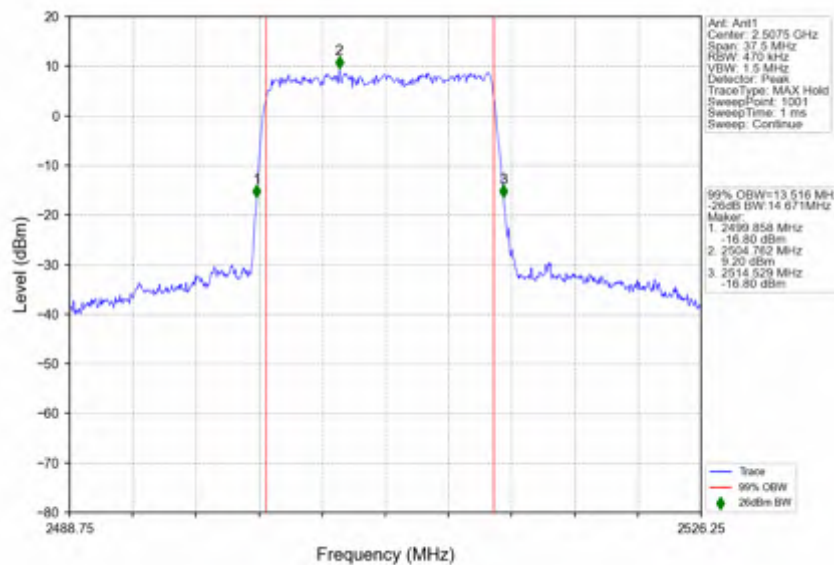
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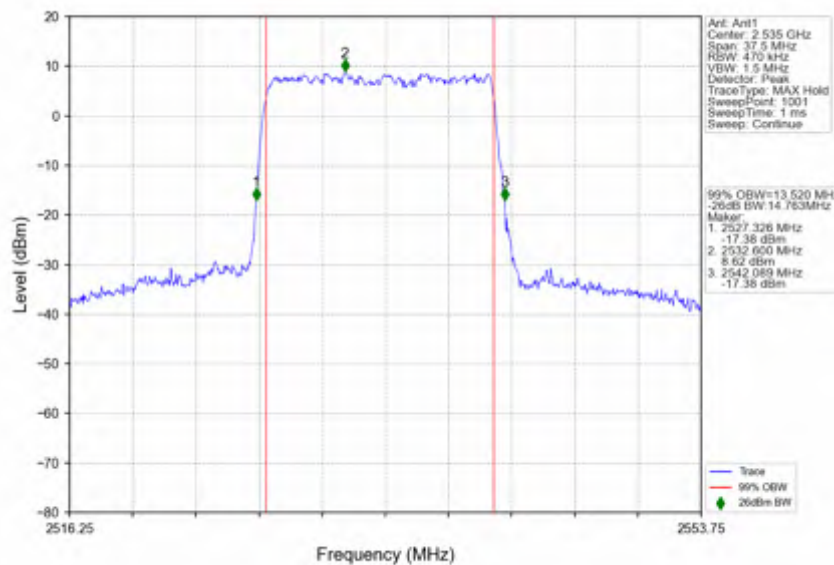
0512-512735088 0512-512737010 www.sgs.com.cn

0512-512735088 0512-512737010 sgs.china@sgs.com

n7 15kHz SISO NTN 15MHz DFT-s-OFDM 256 QAM 2507.5MHz Outer Full



n7_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM_256_QAM_2535MHz_Outer_Full

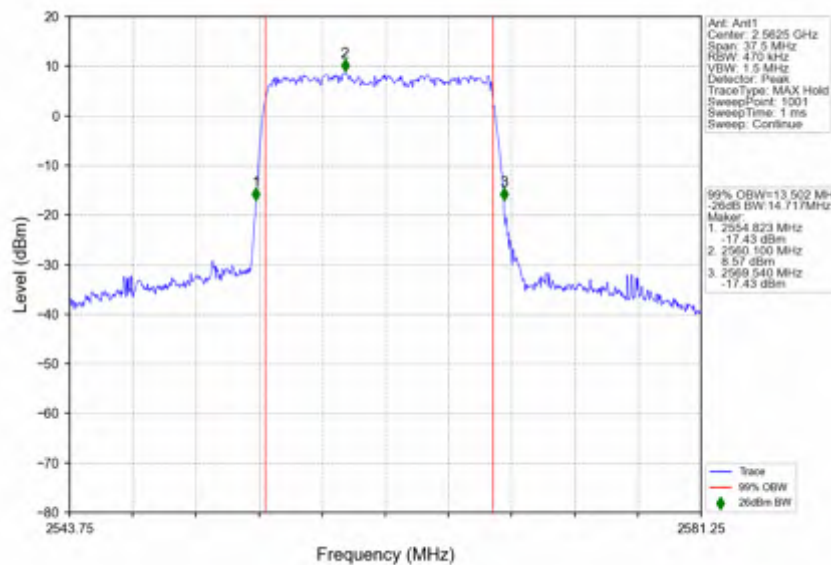


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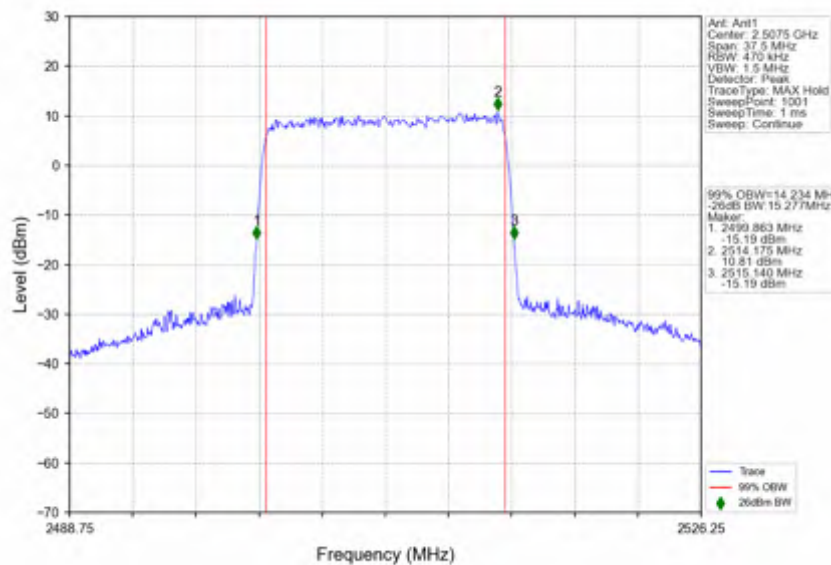
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n7_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM 256 QAM_2562.5MHz_Outer_Full



n7_15kHz_SISO_NTNV_15MHz_CP-OFDM QPSK_2507.5MHz_Outer_Full



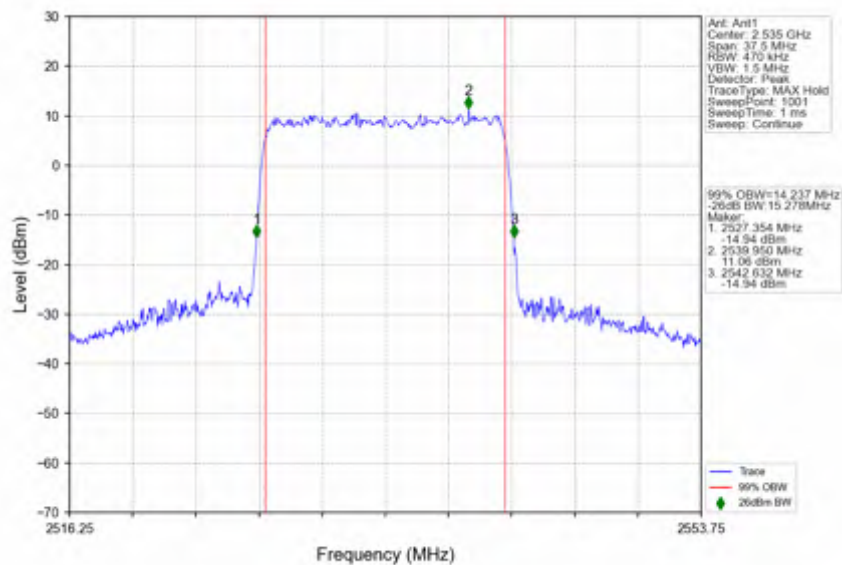
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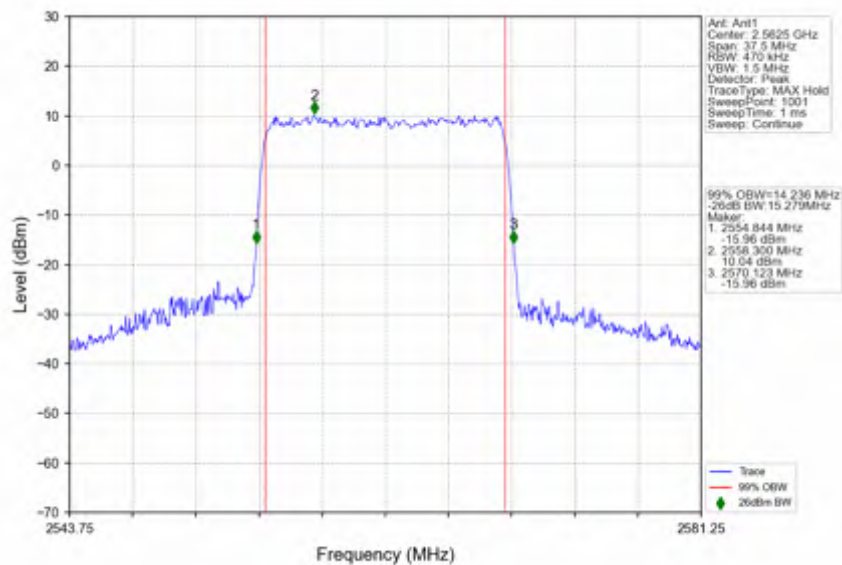
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n7_15kHz_SISO_NTNV_15MHz_CP-OFDM QPSK_2535MHz_Outer_Full



n7_15kHz_SISO_NTNV_15MHz_CP-OFDM QPSK_2562.5MHz_Outer_Full



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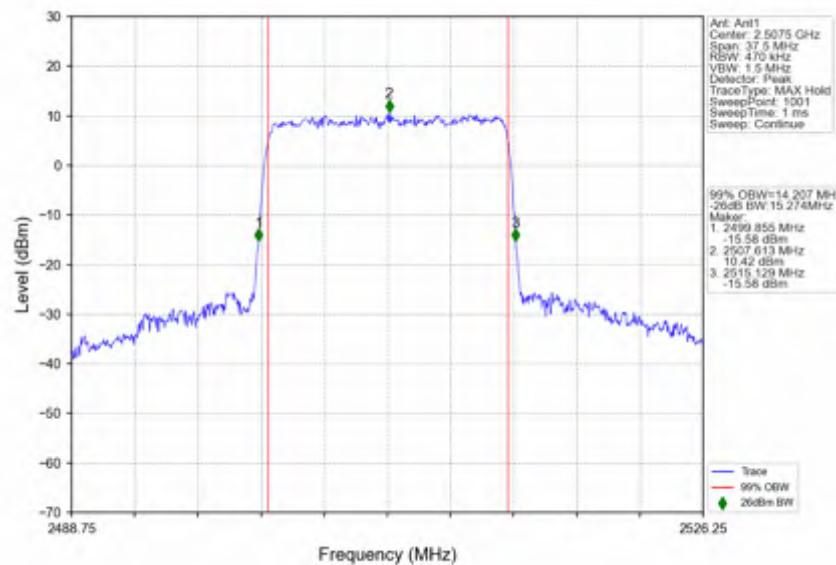
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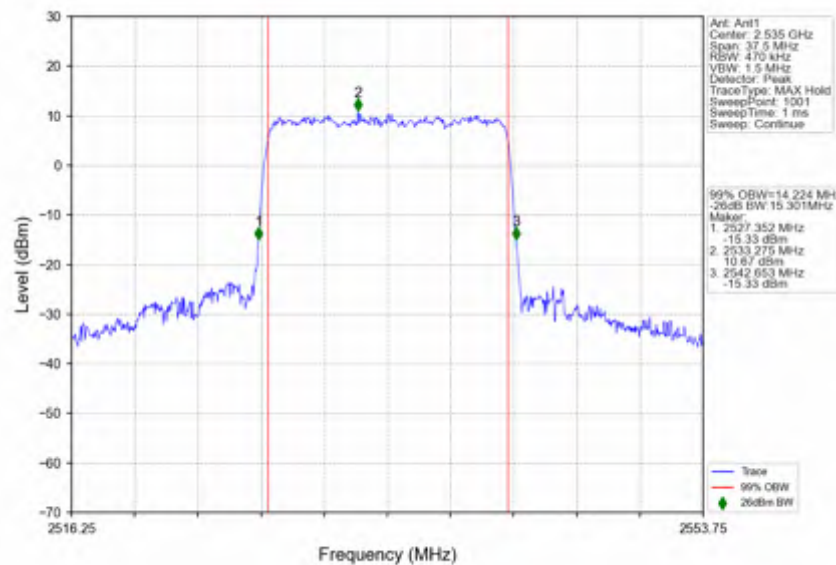
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n7_15kHz_SISO_NTNV_15MHz_CP-OFDM_16_QAM_2507.5MHz_Outer_Full



n7_15kHz_SISO_NTNV_15MHz_CP-OFDM_16_QAM_2535MHz_Outer_Full



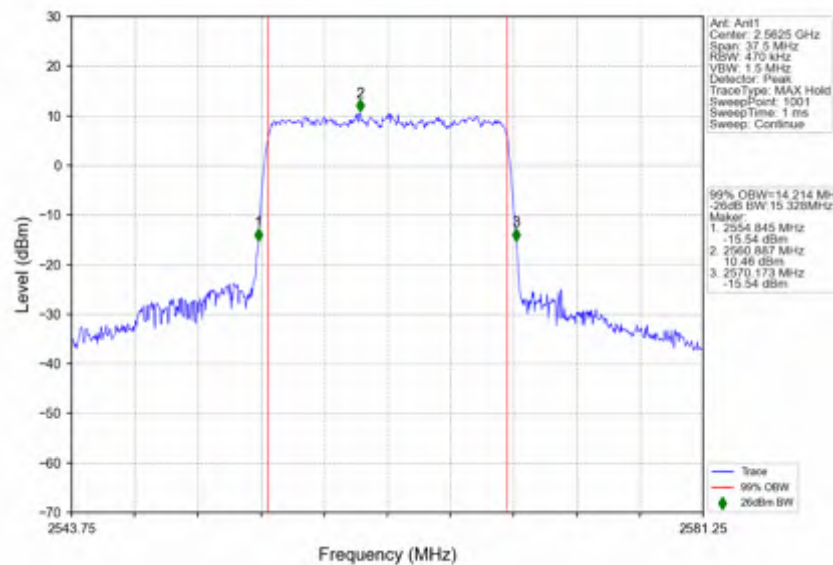
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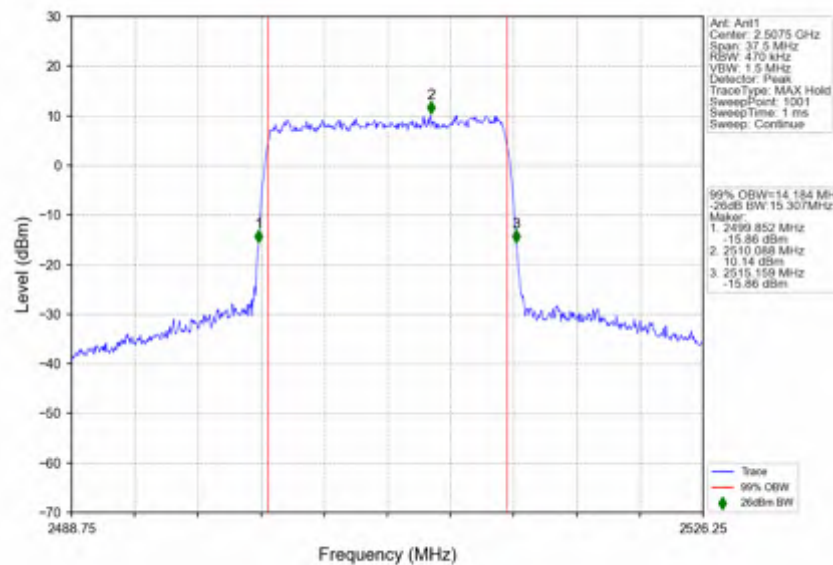
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n7_15kHz_SISO_NTNV_15MHz_CP-OFDM_16_QAM_2562.5MHz_Outer_Full



n7_15kHz_SISO_NTNV_15MHz_CP-OFDM_64_QAM_2507.5MHz_Outer_Full



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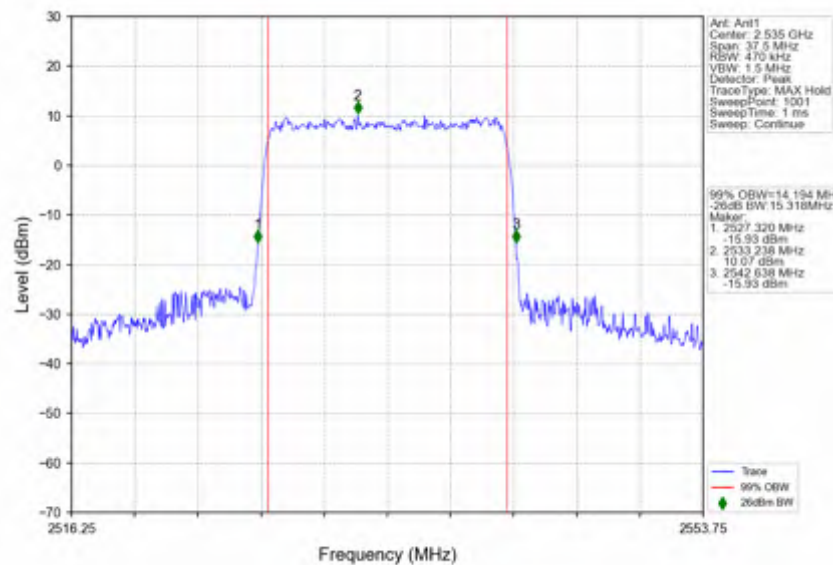
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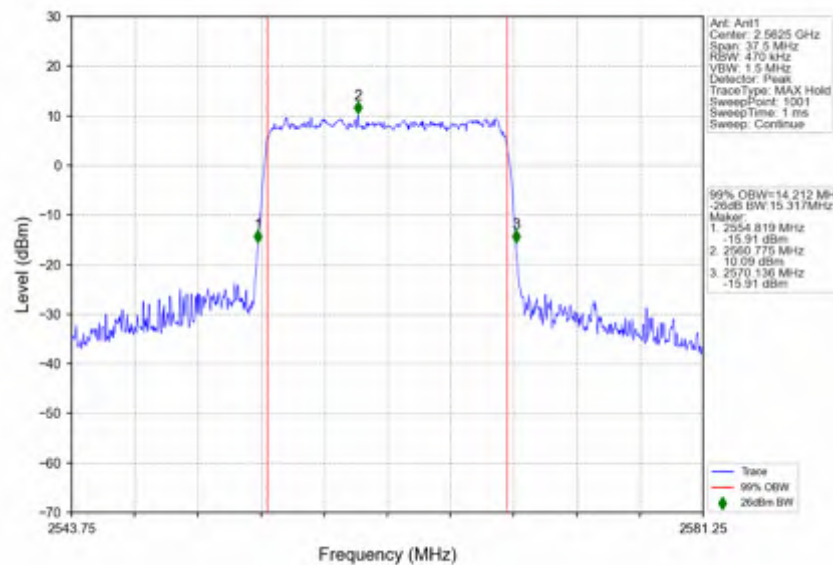
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n7_15kHz_SISO_NTNV_15MHz_CP-OFDM 64 QAM_2535MHz_Outer_Full



n7_15kHz_SISO_NTNV_15MHz_CP-OFDM 64 QAM_2562.5MHz_Outer_Full



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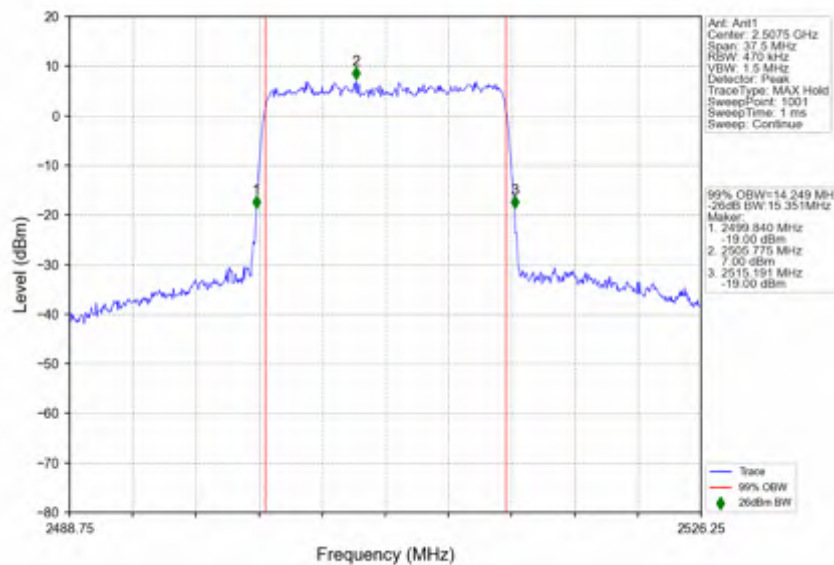
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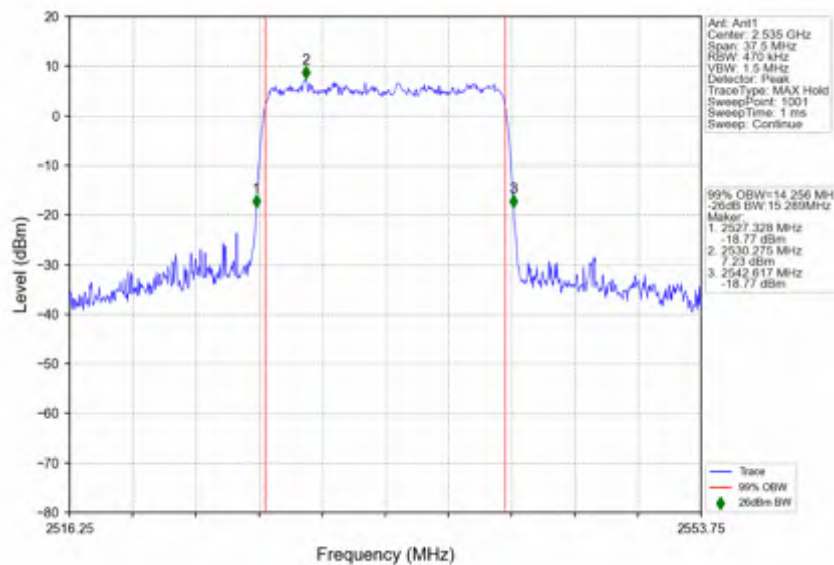
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n7_15kHz_SISO_NTNV_15MHz_CP-OFDM_256_QAM_2507.5MHz_Outer_Full



n7_15kHz_SISO_NTNV_15MHz_CP-OFDM_256_QAM_2535MHz_Outer_Full



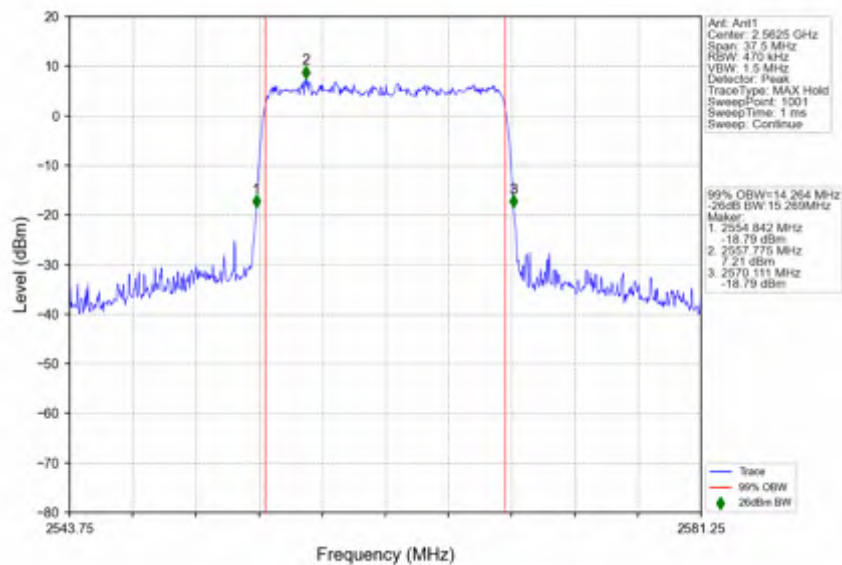
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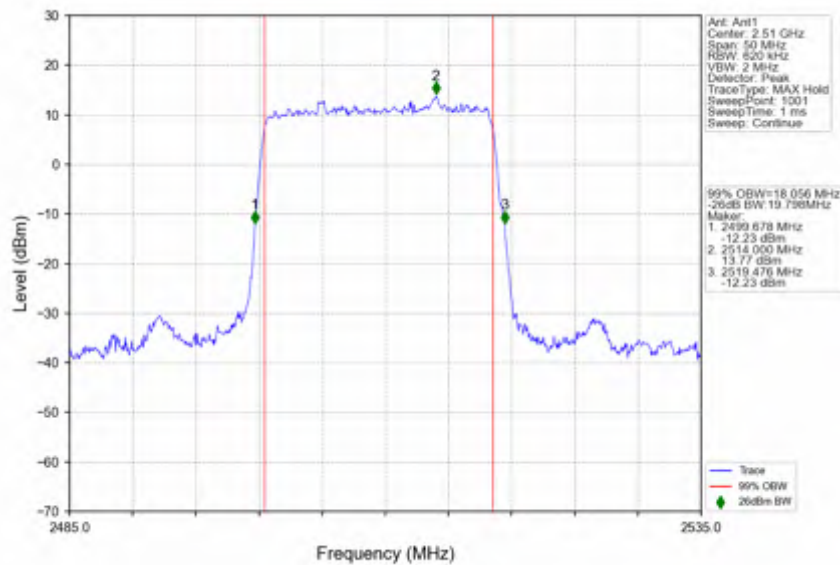
3.4 15k_SISO_20MHz_NTNV

3.4.1 Test Result

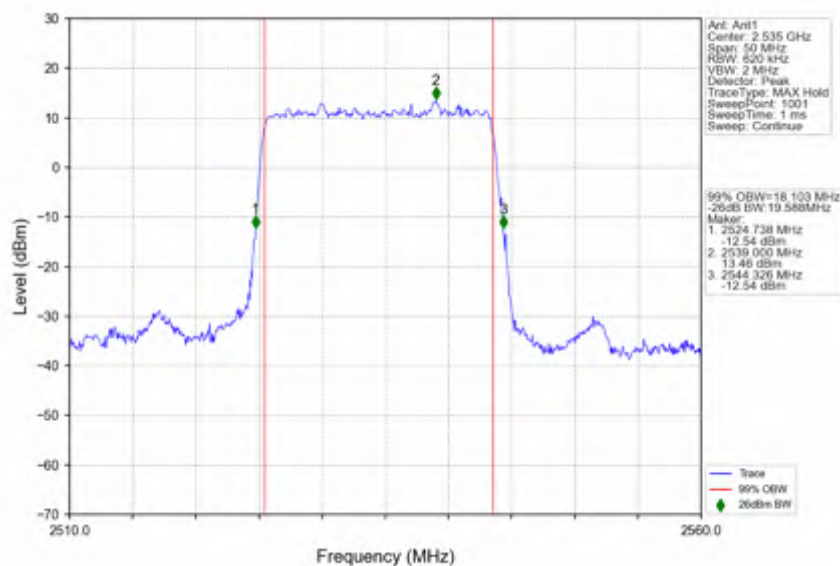
5G NR n7 SCS=15kHz SISO 20MHz NTN						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	2510	Outer_Full	18.06	19.80	/	Pass
	2535	Outer_Full	18.10	19.59	/	Pass
	2560	Outer_Full	18.07	19.62	/	Pass
DFT-s-OFDM QPSK	2510	Outer_Full	18.05	19.72	/	Pass
	2535	Outer_Full	18.06	19.58	/	Pass
	2560	Outer_Full	18.11	19.58	/	Pass
DFT-s-OFDM 16 QAM	2510	Outer_Full	18.16	19.73	/	Pass
	2535	Outer_Full	18.17	19.66	/	Pass
	2560	Outer_Full	18.17	19.71	/	Pass
DFT-s-OFDM 64 QAM	2510	Outer_Full	18.03	19.69	/	Pass
	2535	Outer_Full	18.05	19.75	/	Pass
	2560	Outer_Full	18.04	19.78	/	Pass
DFT-s-OFDM 256 QAM	2510	Outer_Full	18.01	19.72	/	Pass
	2535	Outer_Full	18.04	19.63	/	Pass
	2560	Outer_Full	18.03	19.71	/	Pass
CP-OFDM QPSK	2510	Outer_Full	18.99	20.60	/	Pass
	2535	Outer_Full	19.02	20.65	/	Pass
	2560	Outer_Full	19.02	20.59	/	Pass
CP-OFDM 16 QAM	2510	Outer_Full	19.01	20.43	/	Pass
	2535	Outer_Full	19.06	20.61	/	Pass
	2560	Outer_Full	19.08	20.65	/	Pass
CP-OFDM 64 QAM	2510	Outer_Full	19.08	20.62	/	Pass
	2535	Outer_Full	19.09	20.74	/	Pass
	2560	Outer_Full	19.09	20.70	/	Pass
CP-OFDM 256 QAM	2510	Outer_Full	19.02	20.55	/	Pass
	2535	Outer_Full	19.07	20.66	/	Pass
	2560	Outer_Full	19.05	20.66	/	Pass

3.4.2 Test Graph

n7_15kHz_SISO_NTNV_20MHz_DFT-s-OFDM PI/2 BPSK_2510MHz_Outer_Full



n7_15kHz_SISO_NTNV_20MHz_DFT-s-OFDM PI/2 BPSK_2535MHz_Outer_Full



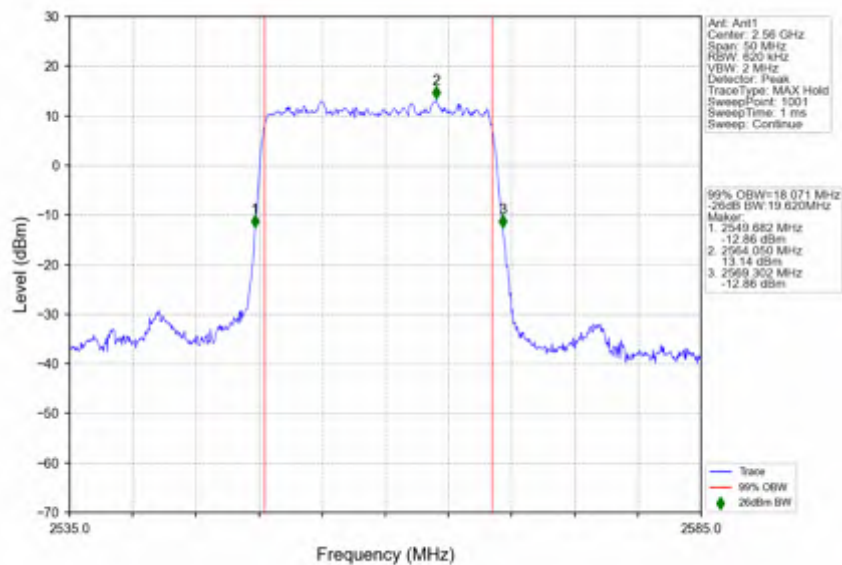
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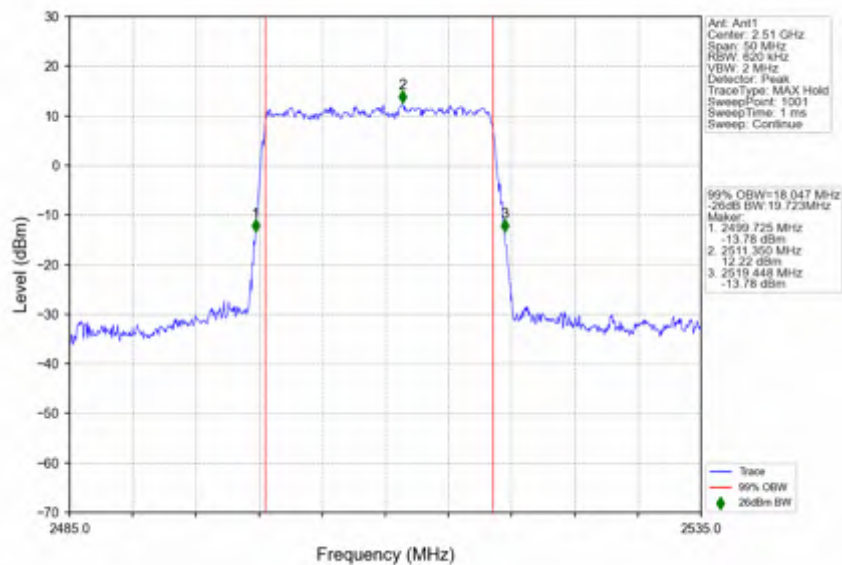
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n7_15kHz_SISO_NTNV_20MHz_DFT-s-OFDM_QPSK_2510MHz_Outer_Full

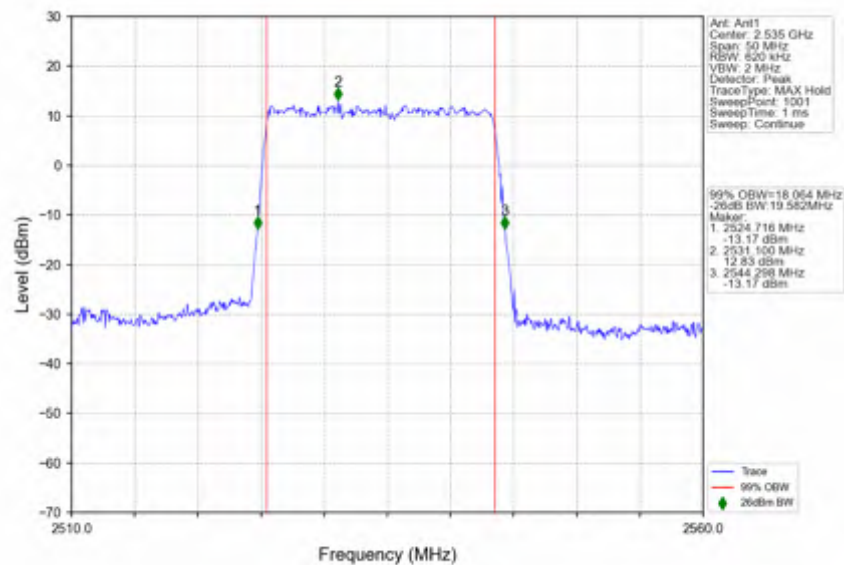


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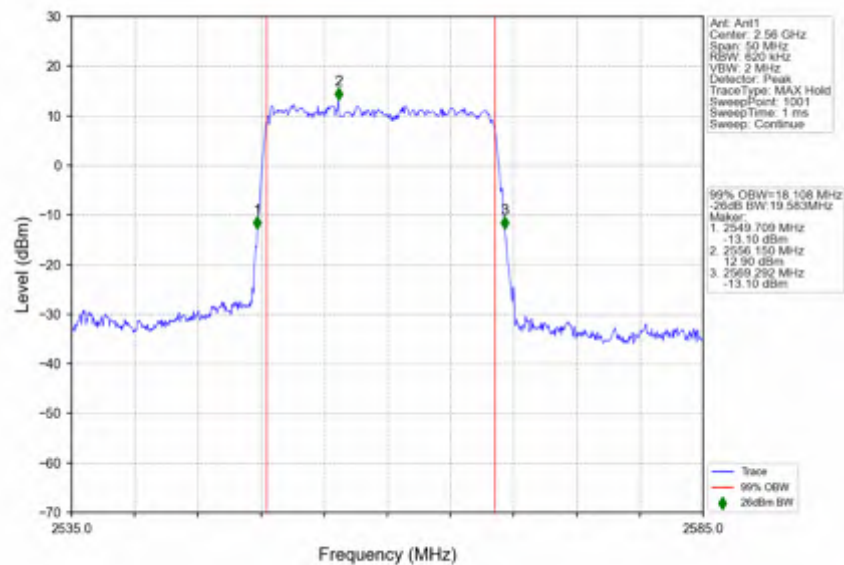
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n7_15kHz_SISO_NTNV_20MHz_DFT-s-OFDM_QPSK_2535MHz_Outer_Full



n7_15kHz_SISO_NTNV_20MHz_DFT-s-OFDM_QPSK_2560MHz_Outer_Full



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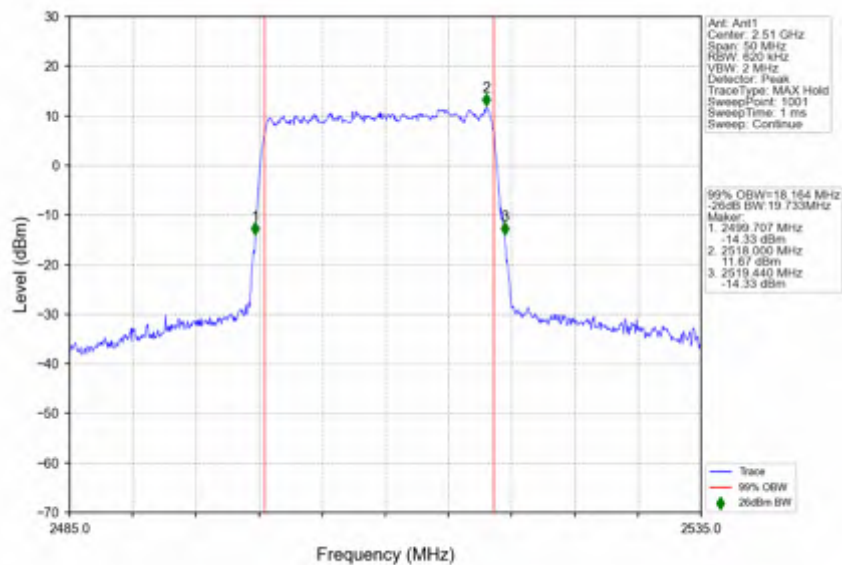
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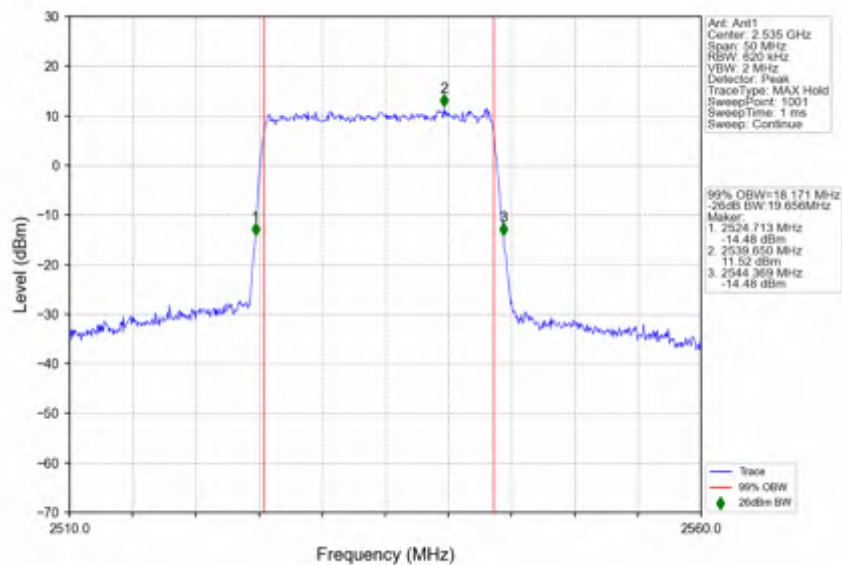
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n7_15kHz_SISO_NTNV_20MHz_DFT-s-OFDM_16_QAM_2510MHz_Outer_Full



n7 15kHz SISO NTNv 20MHz DFT-s-OFDM 16 QAM 2535MHz Outer Full

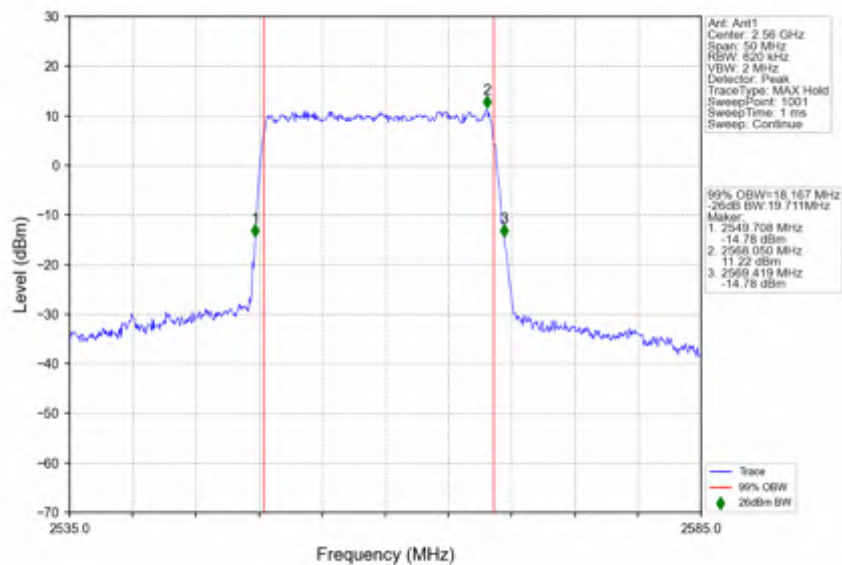


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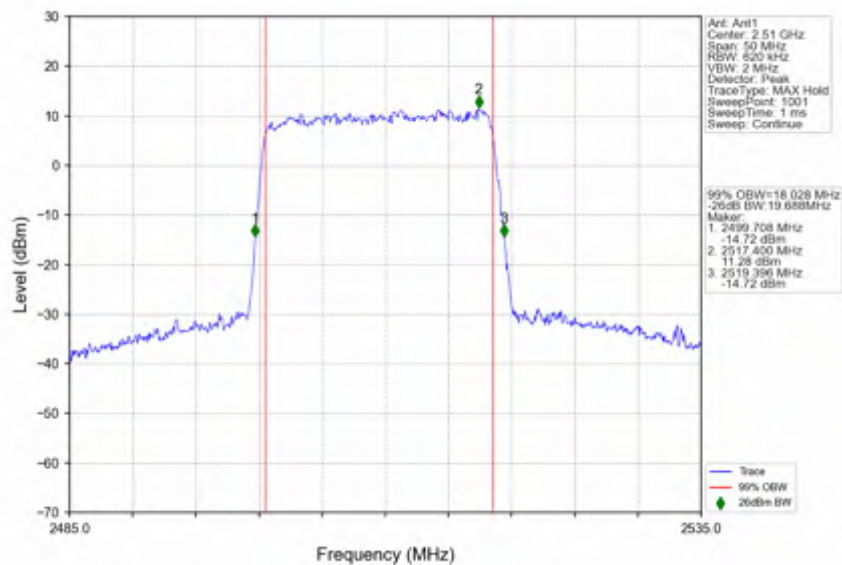
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n7_15kHz_SISO_NTNV_20MHz_DFT-s-OFDM_16 QAM_2560MHz_Outer_Full



n7_15kHz_SISO_NTNV_20MHz_DFT-s-OFDM_64 QAM_2510MHz_Outer_Full



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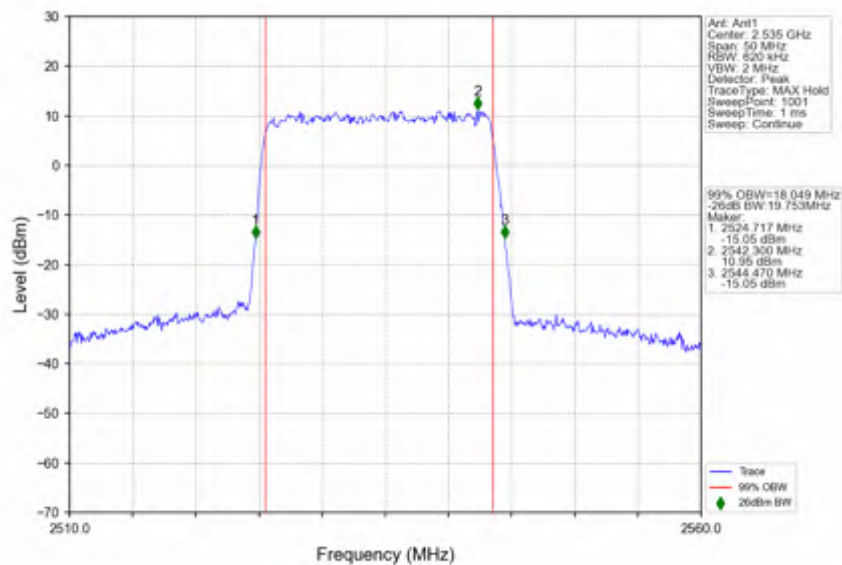
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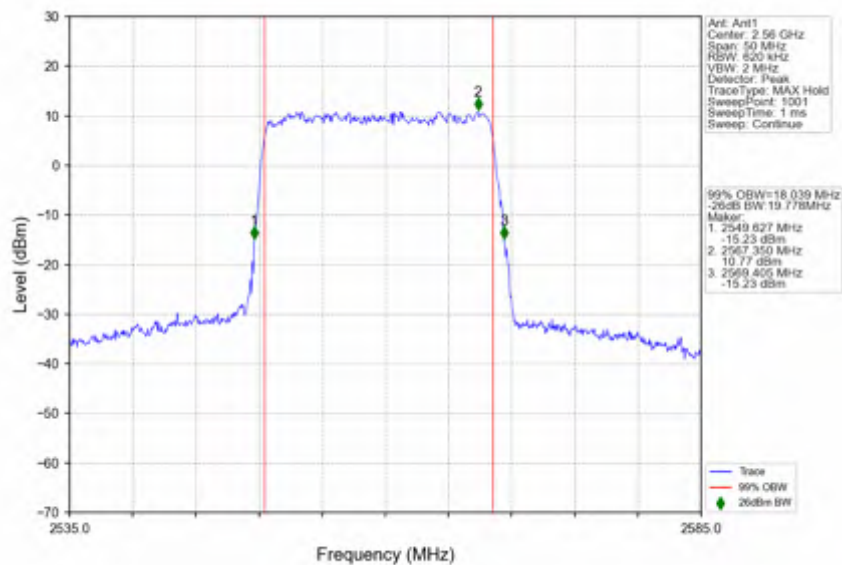
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n7_15kHz_SISO_NTNV_20MHz_DFT-s-OFDM_64_QAM_2535MHz_Outer_Full



n7_15kHz_SISO_NTNV_20MHz_DFT-s-OFDM_64_QAM_2560MHz_Outer_Full



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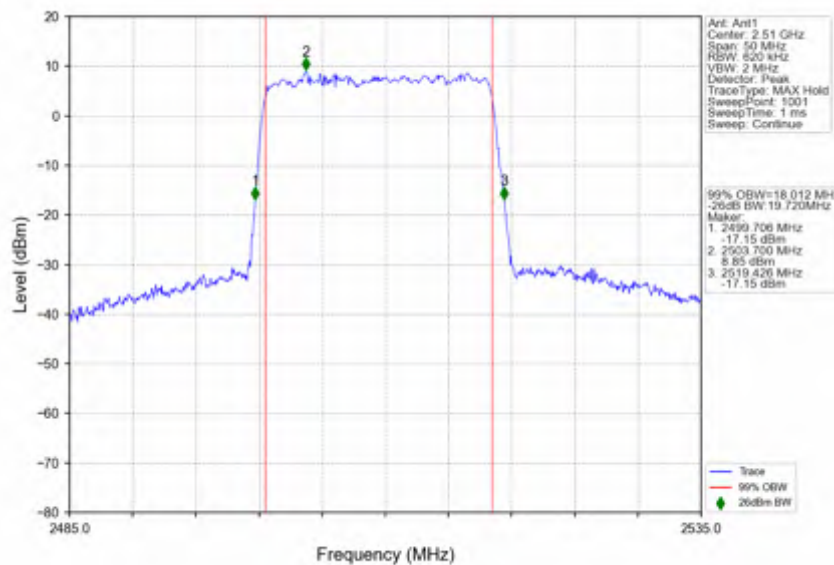
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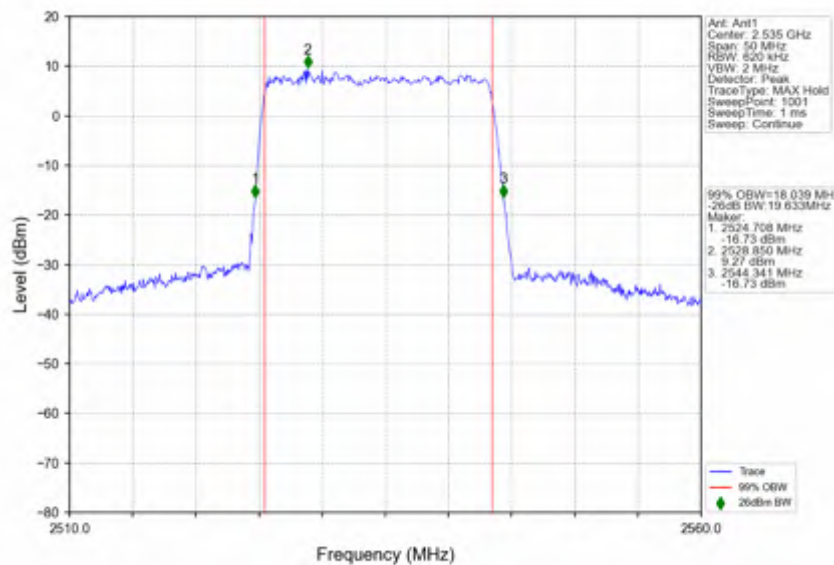
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n7_15kHz_SISO_NTNV_20MHz_DFT-s-OFDM_256_QAM_2510MHz_Outer_Full



n7_15kHz_SISO_NTNV_20MHz_DFT-s-OFDM_256_QAM_2535MHz_Outer_Full



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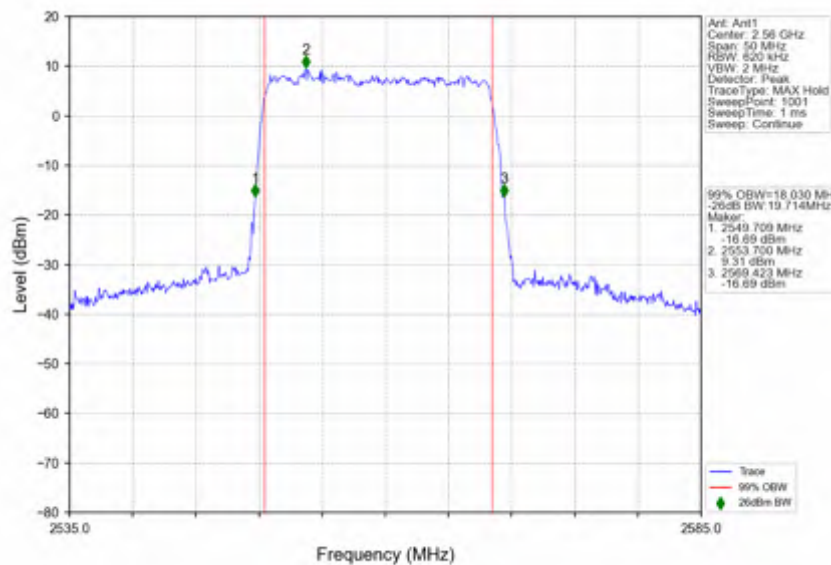
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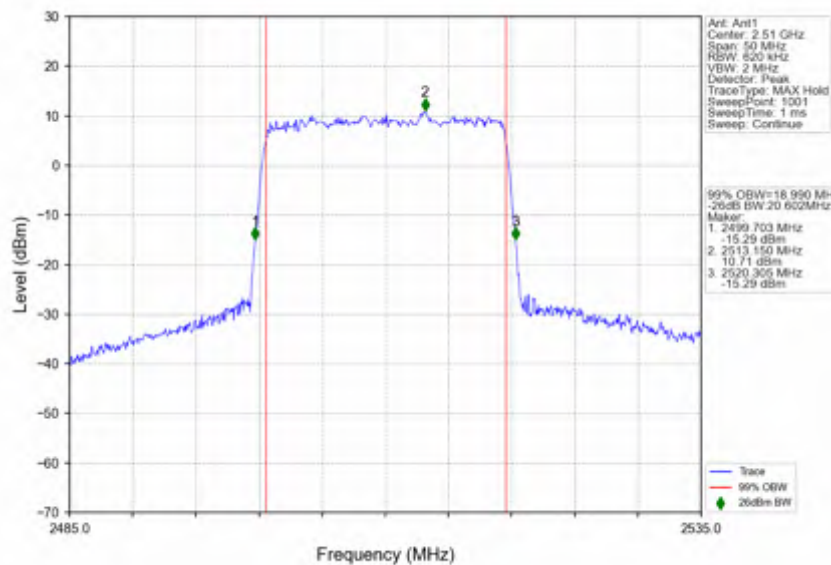
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n7_15kHz_SISO_NTNV_20MHz_DFT-s-OFDM_256_QAM_2560MHz_Outer_Full



n7 15kHz SISO NTV 20MHz CP-OFDM QPSK 2510MHz Outer Full

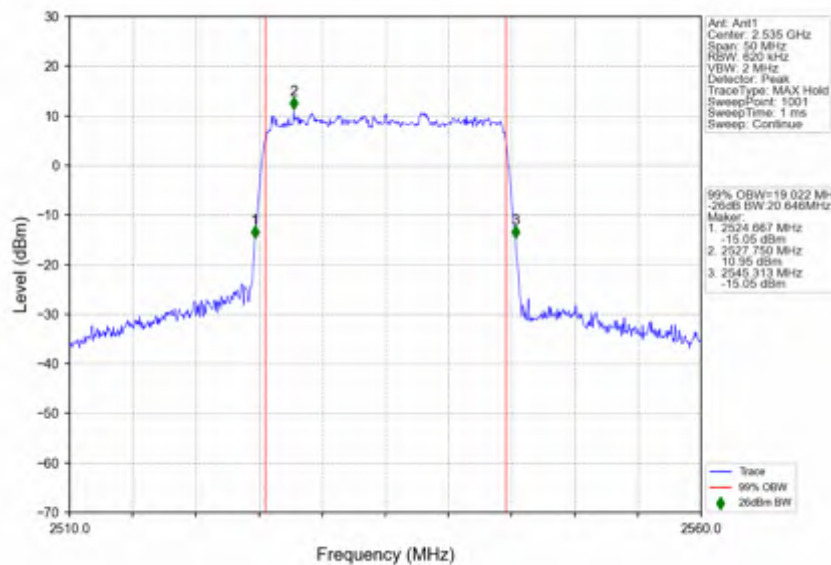


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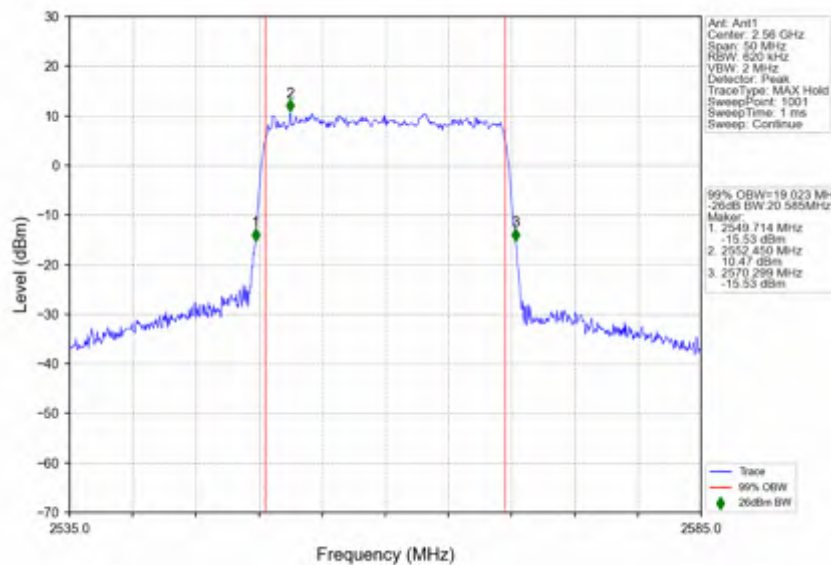
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n7_15kHz_SISO_NTNV_20MHz_CP-OFDM_QPSK_2535MHz_Outer_Full



n7_15kHz_SISO_NTNV_20MHz_CP-OFDM_QPSK_2560MHz_Outer_Full



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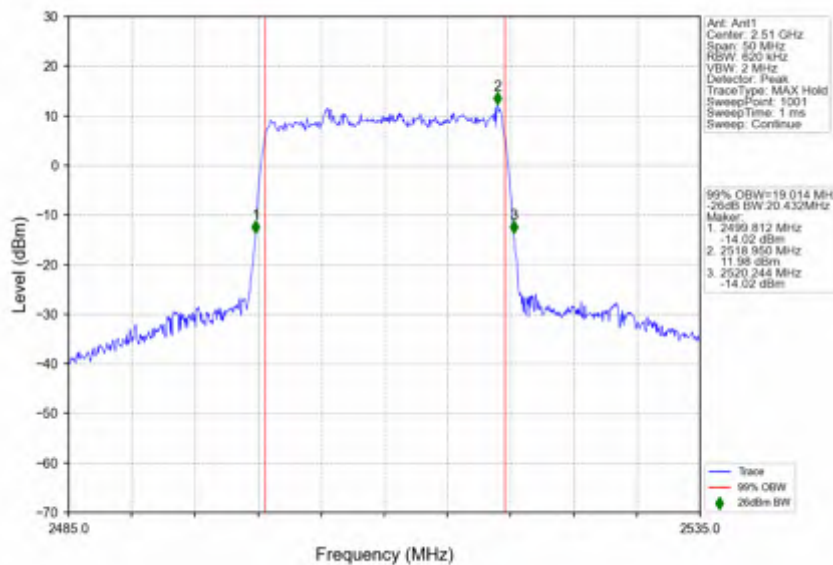
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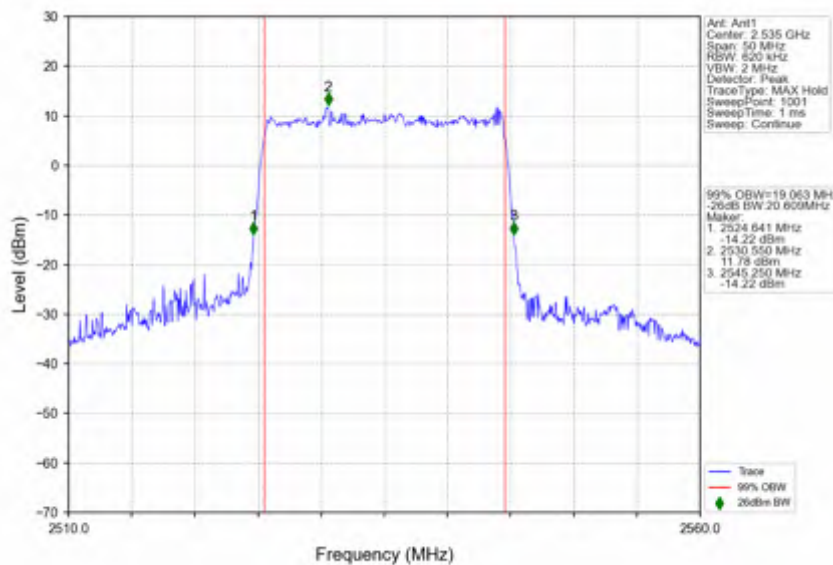
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n7_15kHz_SISO_NTNV_20MHz_CP-OFDM_16_QAM_2510MHz_Outer_Full



n7_15kHz_SISO_NTNV_20MHz_CP-OFDM_16_QAM_2535MHz_Outer_Full



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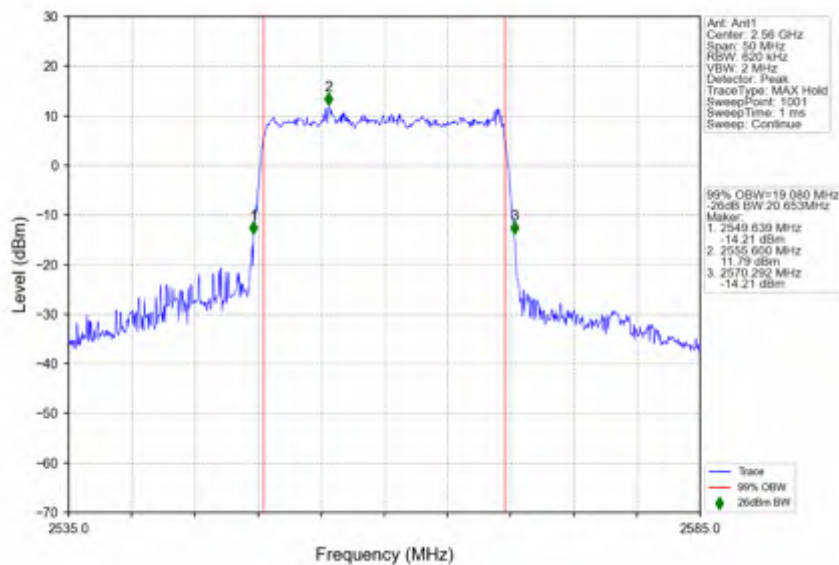
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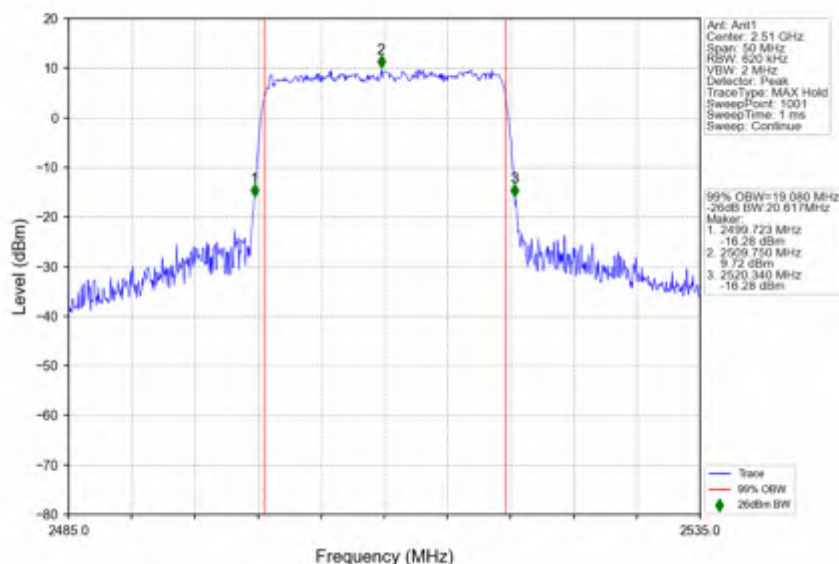
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n7_15kHz_SISO_NTNV_20MHz_CP-OFDM 16 QAM_2560MHz_Outer_Full



n7_15kHz_SISO_NTNV_20MHz_CP-OFDM 64 QAM_2510MHz_Outer_Full



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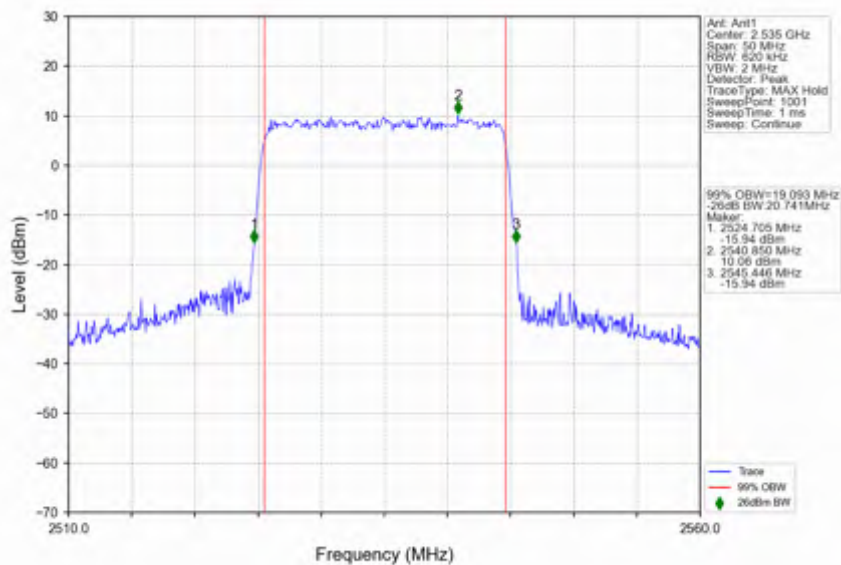
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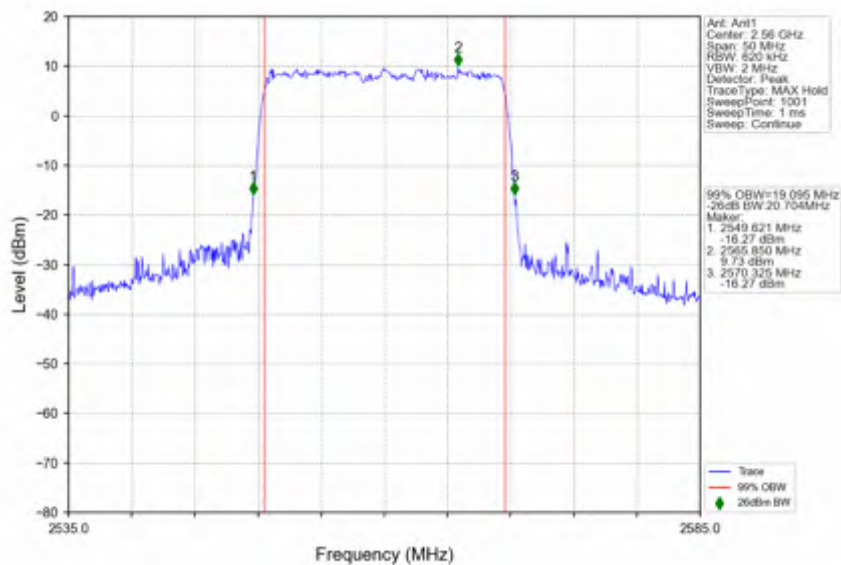
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n7 15kHz SISO NTN 20MHz CP-OFDM 64 QAM 2560MHz Outer Full

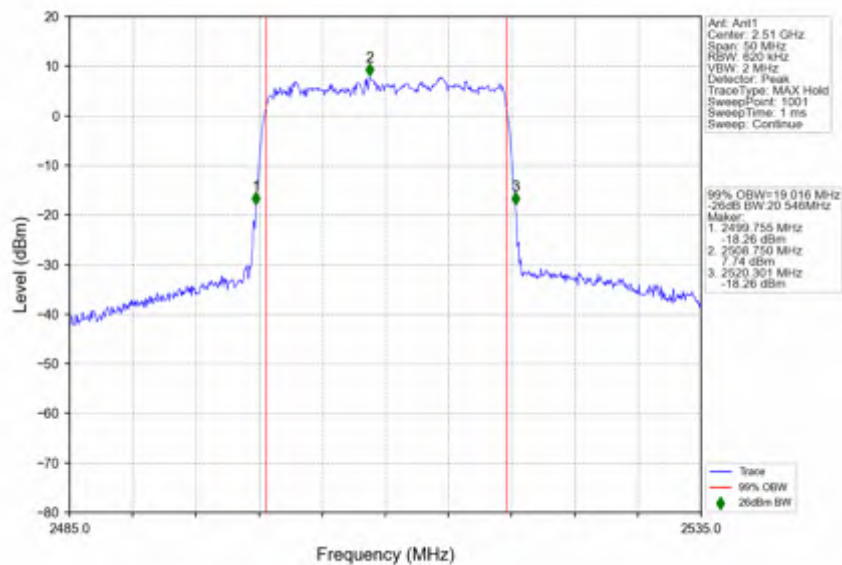


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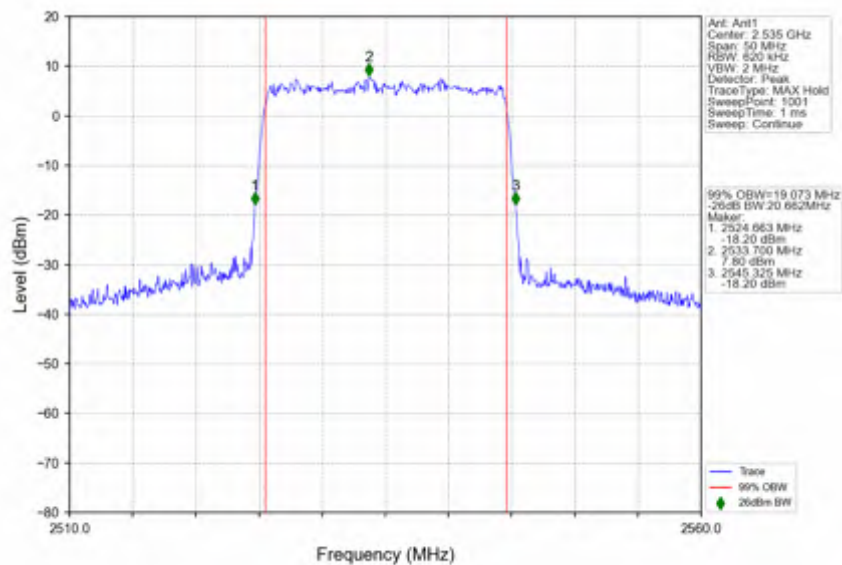
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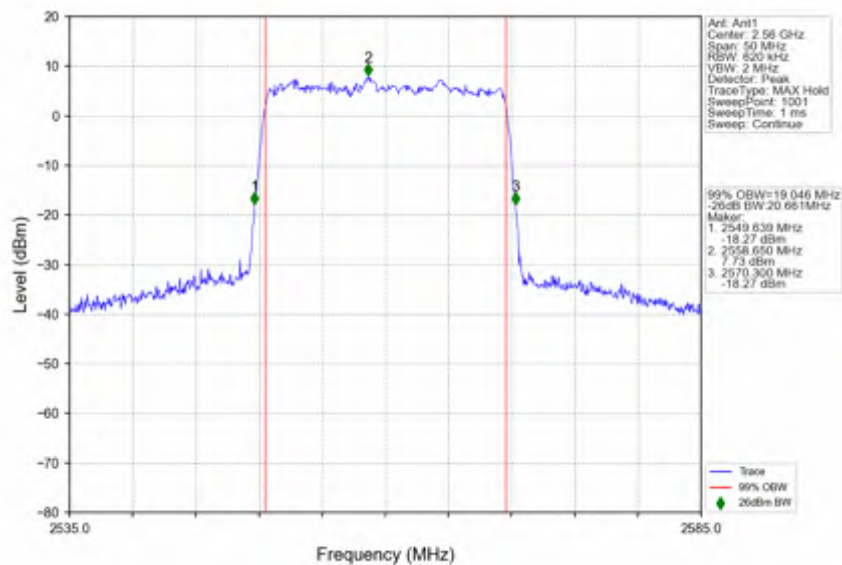
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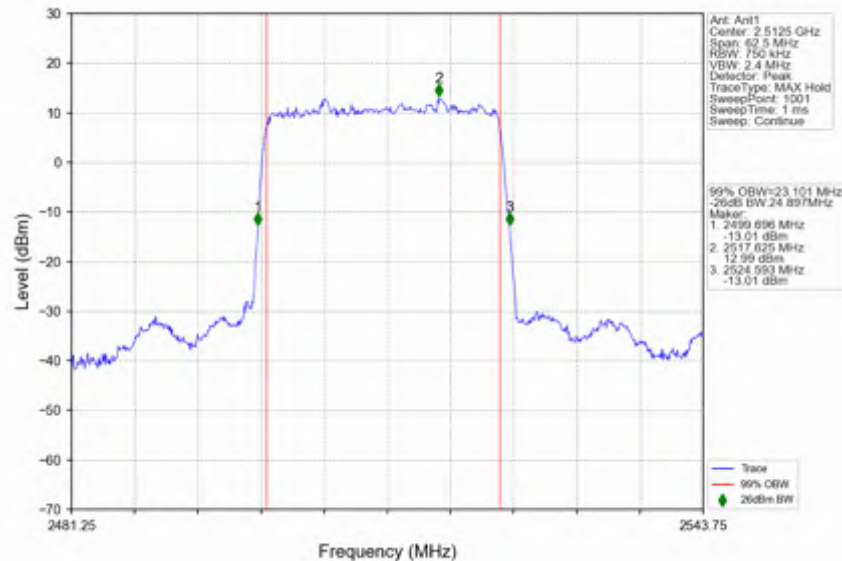
3.5 15k_SISO_25MHz_NTNV

3.5.1 Test Result

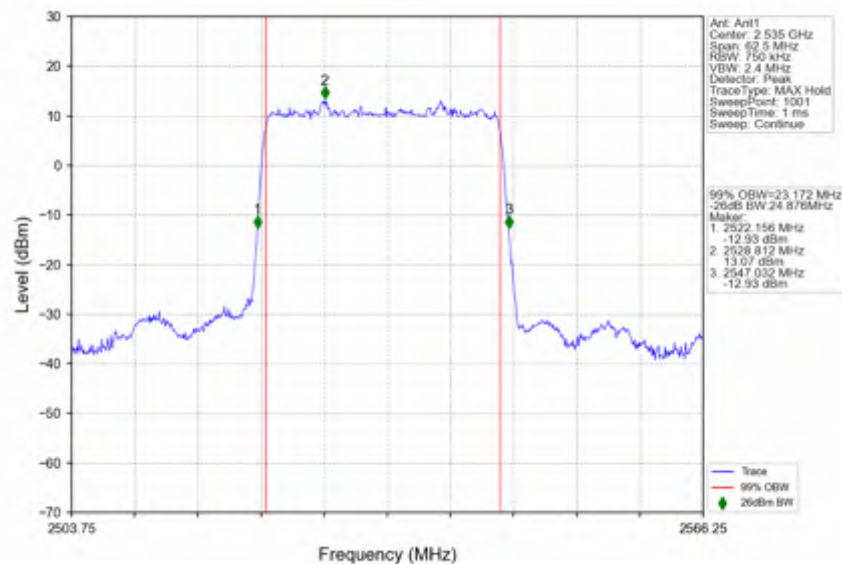
5G NR n7 SCS=15kHz SISO 25MHz NTN						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	2512.5	Outer_Full	23.10	24.90	/	Pass
	2535	Outer_Full	23.17	24.88	/	Pass
	2557.5	Outer_Full	23.16	24.92	/	Pass
DFT-s-OFDM QPSK	2512.5	Outer_Full	23.05	24.97	/	Pass
	2535	Outer_Full	23.06	24.99	/	Pass
	2557.5	Outer_Full	23.05	24.91	/	Pass
DFT-s-OFDM 16 QAM	2512.5	Outer_Full	23.05	24.88	/	Pass
	2535	Outer_Full	23.08	24.86	/	Pass
	2557.5	Outer_Full	23.08	24.98	/	Pass
DFT-s-OFDM 64 QAM	2512.5	Outer_Full	23.06	24.84	/	Pass
	2535	Outer_Full	23.12	25.07	/	Pass
	2557.5	Outer_Full	23.08	24.80	/	Pass
DFT-s-OFDM 256 QAM	2512.5	Outer_Full	23.02	24.91	/	Pass
	2535	Outer_Full	23.07	24.99	/	Pass
	2557.5	Outer_Full	23.05	24.94	/	Pass
CP-OFDM QPSK	2512.5	Outer_Full	23.82	25.66	/	Pass
	2535	Outer_Full	23.90	25.64	/	Pass
	2557.5	Outer_Full	23.90	25.75	/	Pass
CP-OFDM 16 QAM	2512.5	Outer_Full	23.91	25.59	/	Pass
	2535	Outer_Full	23.94	25.87	/	Pass
	2557.5	Outer_Full	23.96	25.70	/	Pass
CP-OFDM 64 QAM	2512.5	Outer_Full	23.86	25.73	/	Pass
	2535	Outer_Full	23.90	25.62	/	Pass
	2557.5	Outer_Full	23.89	25.67	/	Pass
CP-OFDM 256 QAM	2512.5	Outer_Full	23.89	25.68	/	Pass
	2535	Outer_Full	23.95	25.75	/	Pass
	2557.5	Outer_Full	23.94	25.69	/	Pass

3.5.2 Test Graph

n7_15kHz_SISO_NTNV_25MHz_DFT-s-OFDM_PI/2_BPSK_2512.5MHz_Outer_Full



n7_15kHz_SISO_NTNV_25MHz_DFT-s-OFDM_PI/2_BPSK_2535MHz_Outer_Full



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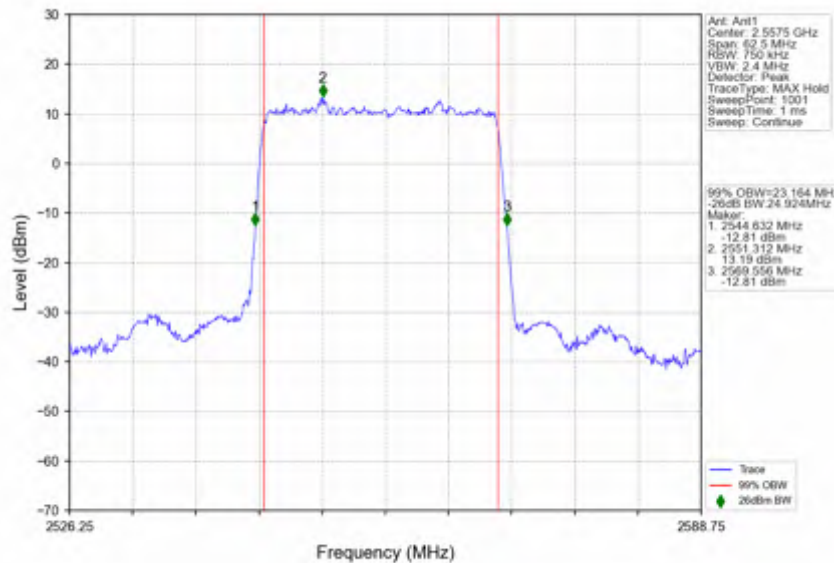
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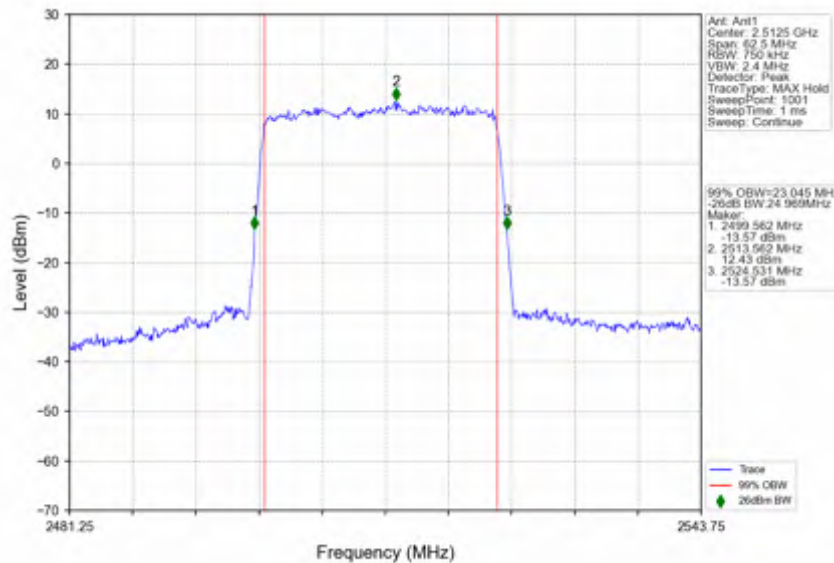
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n7_15kHz_SISO_NTNV_25MHz_DFT-s-OFDM PI/2 BPSK_2557.5MHz_Outer_Full



n7_15kHz_SISO_NTNV_25MHz_DFT-s-OFDM QPSK_2512.5MHz_Outer_Full



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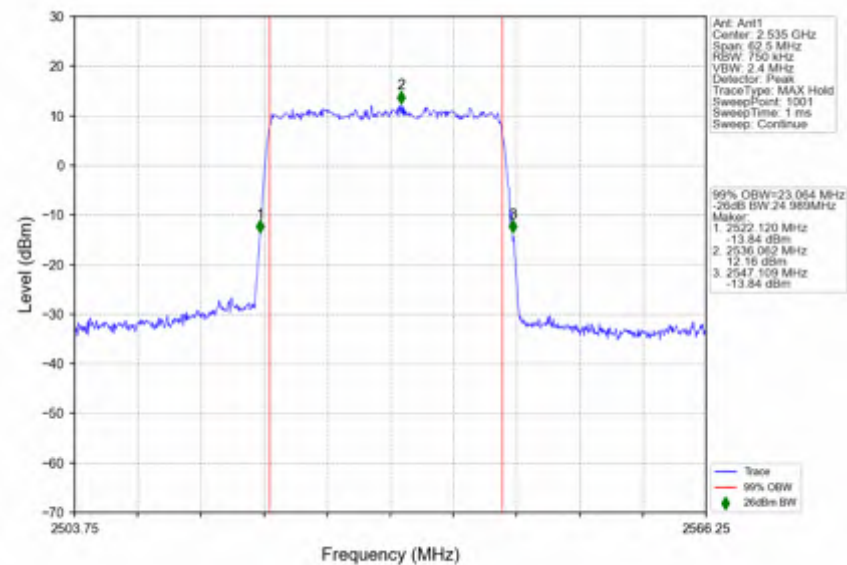
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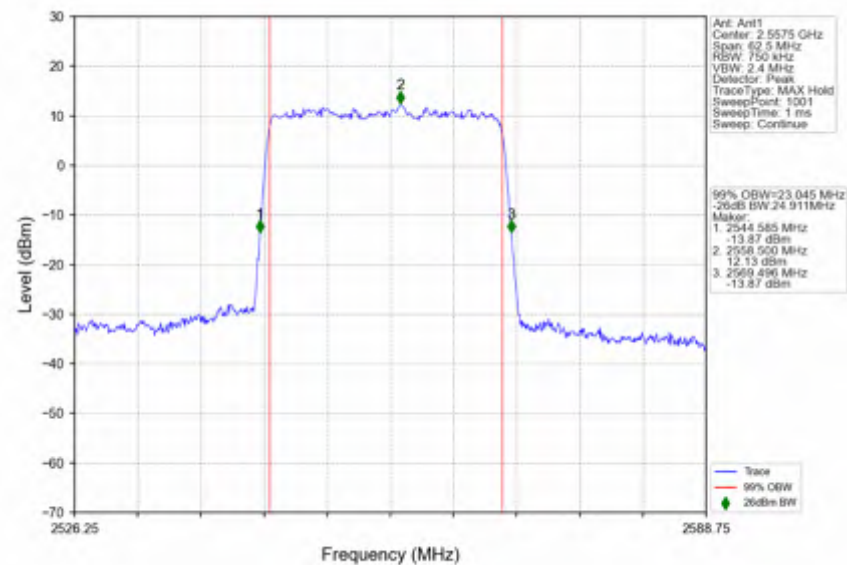
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n7_15kHz_SISO_NTNV_25MHz_DFT-s-OFDM QPSK_2535MHz_Outer_Full



n7_15kHz_SISO_NTNV_25MHz_DFT-s-OFDM QPSK_2557.5MHz_Outer_Full



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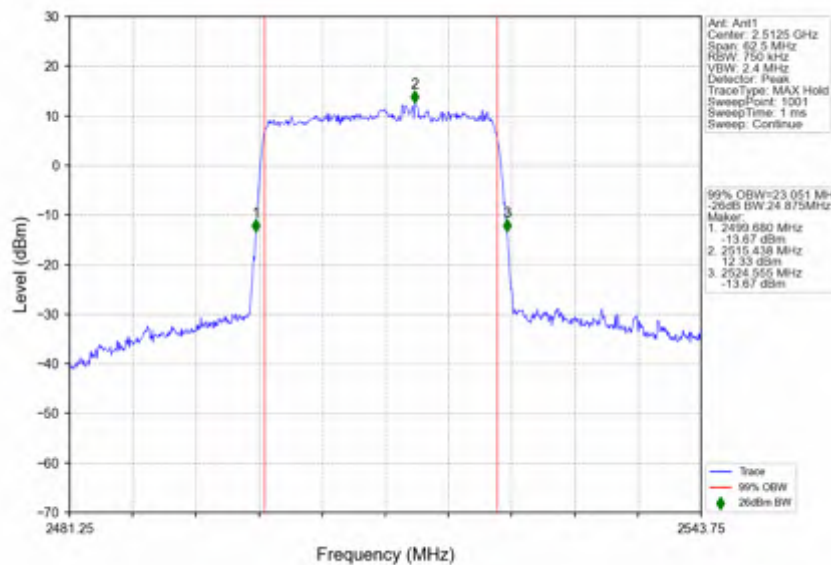
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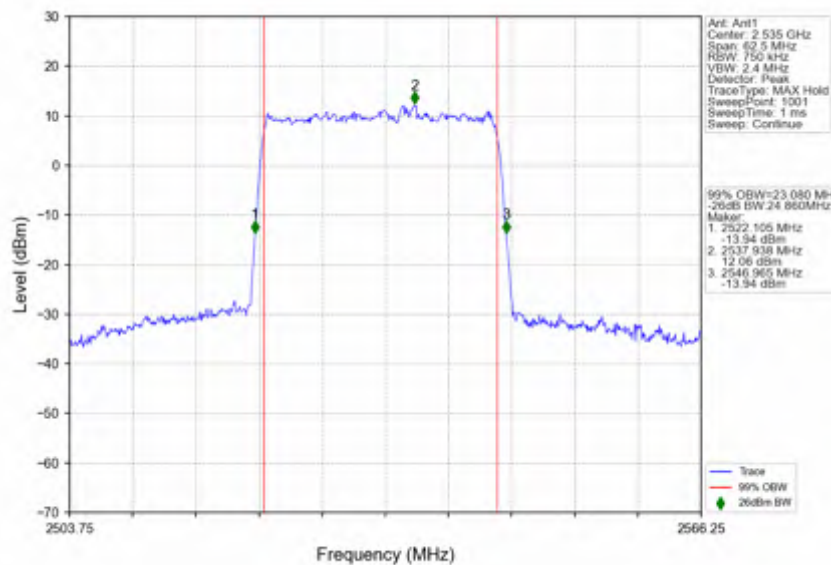
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n7_15kHz_SISO_NTNV_25MHz_DFT-s-OFDM_16_QAM_2512.5MHz_Outer_Full



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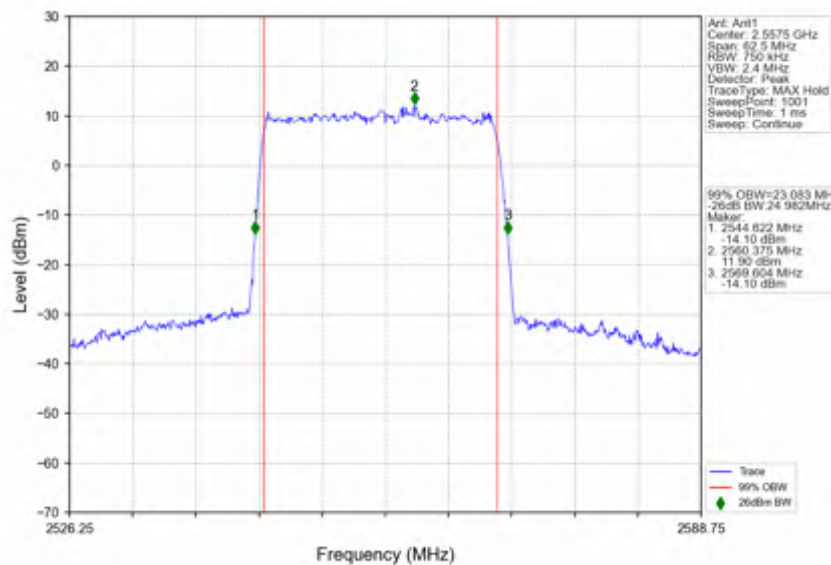
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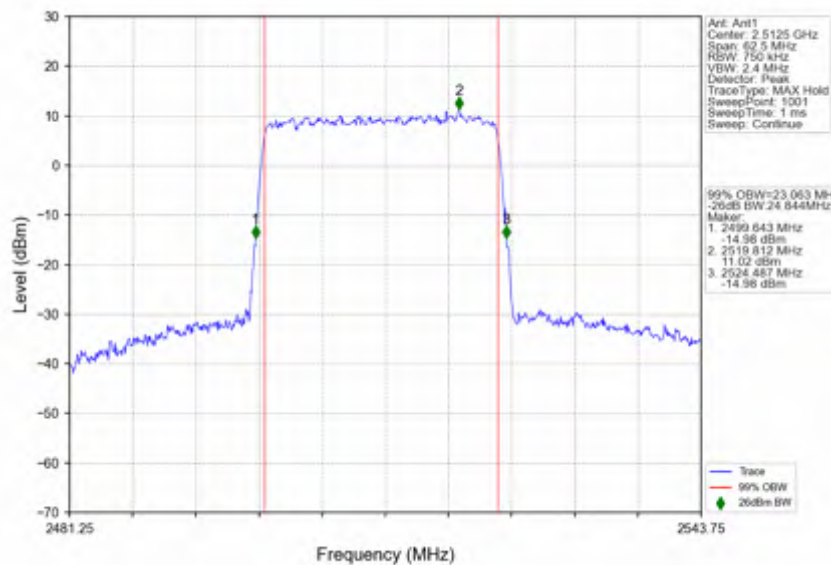
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n7_15kHz_SISO_NTNV_25MHz_DFT-s-OFDM_16_QAM_2557.5MHz_Outer_Full



n7_15kHz_SISO_NTNV_25MHz_DFT-s-OFDM_64_QAM_2512.5MHz_Outer_Full



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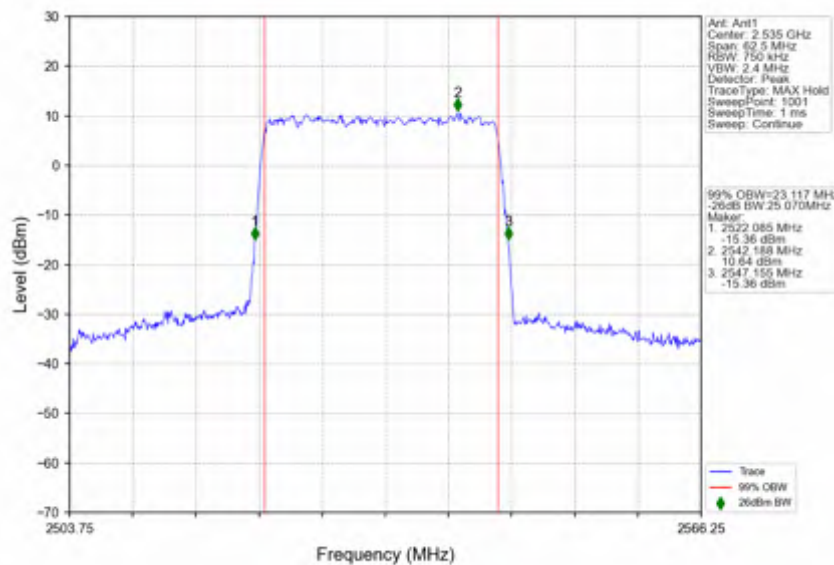
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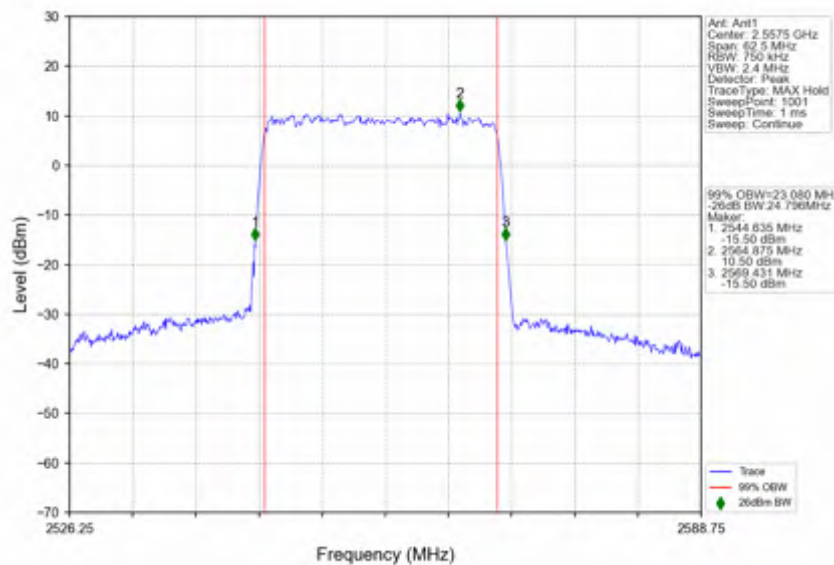
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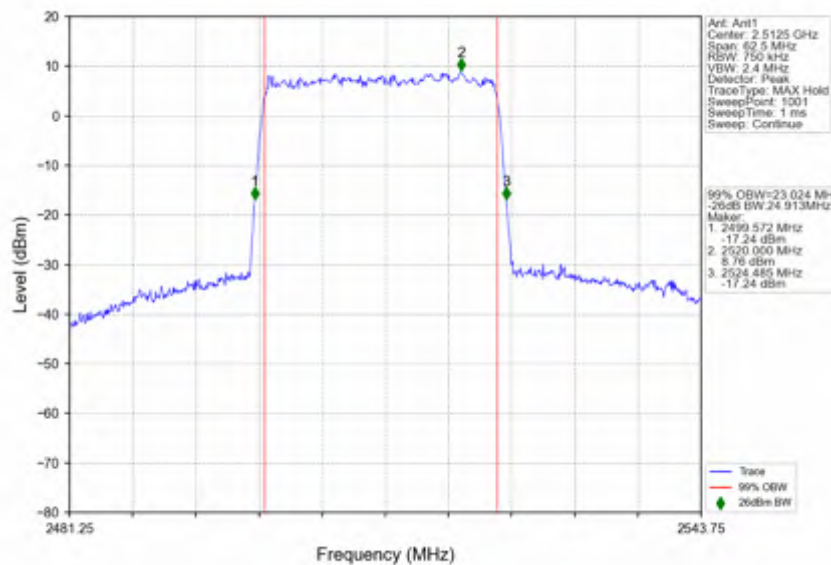
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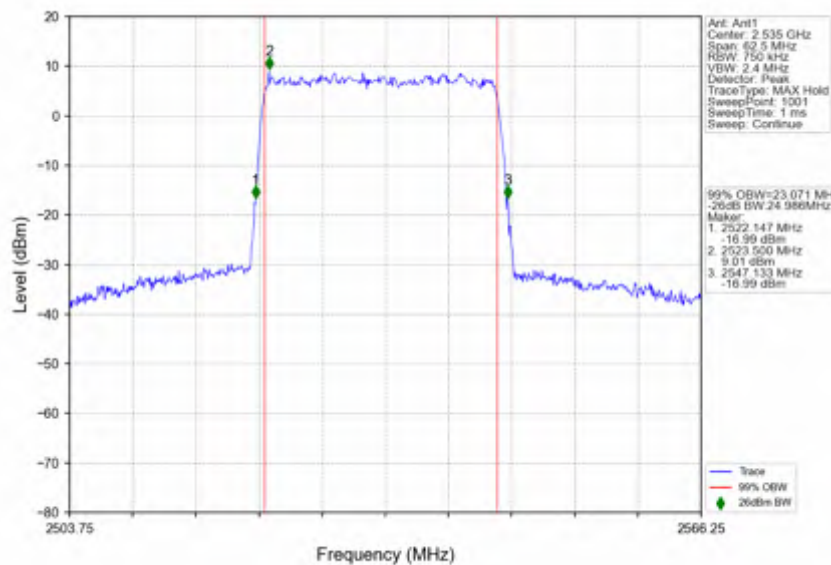
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n7_15kHz_SISO_NTNV_25MHz_DFT-s-OFDM_256_QAM_2512.5MHz_Outer_Full



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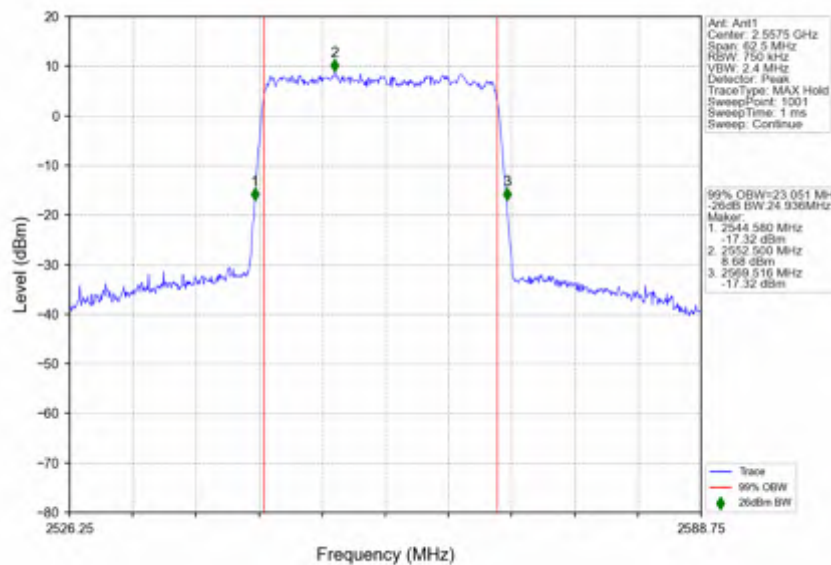
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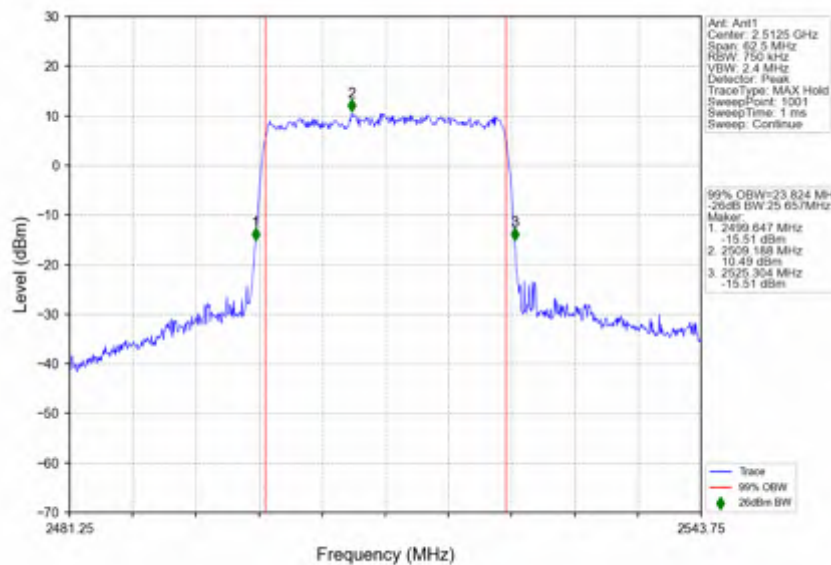
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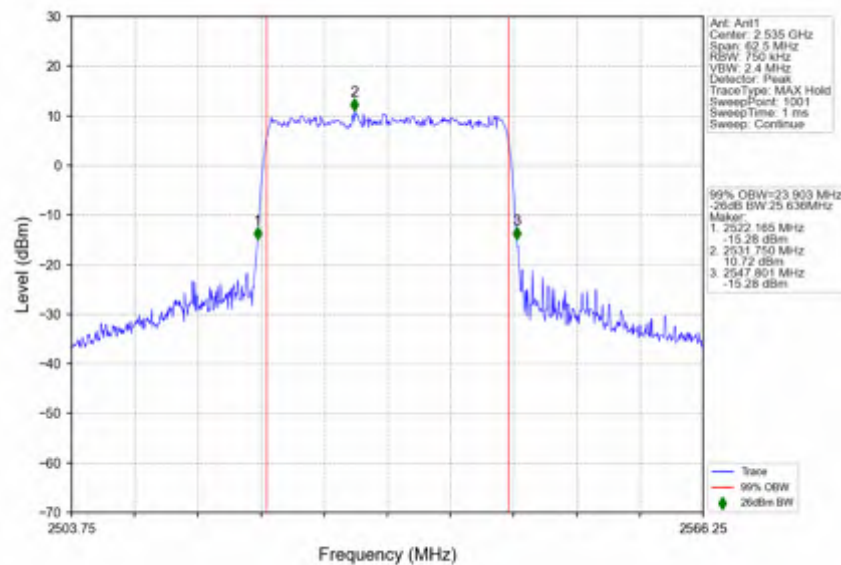
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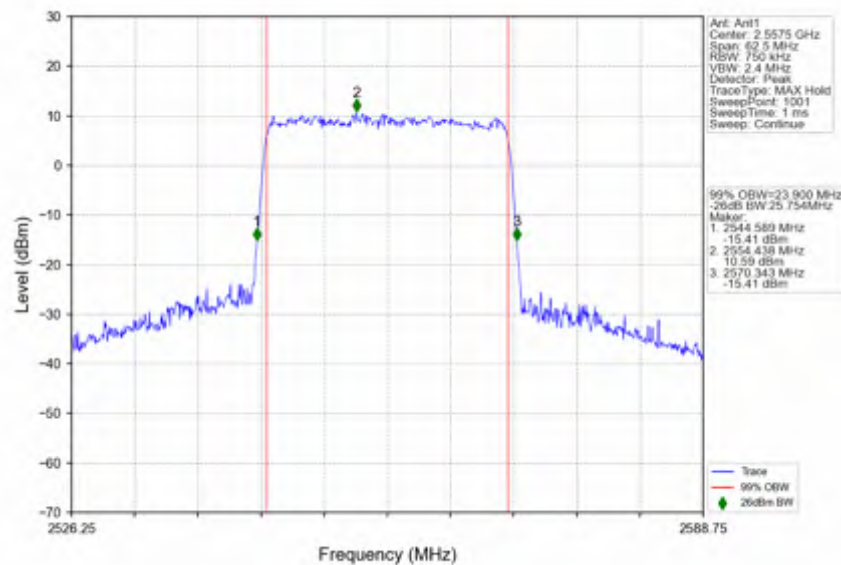
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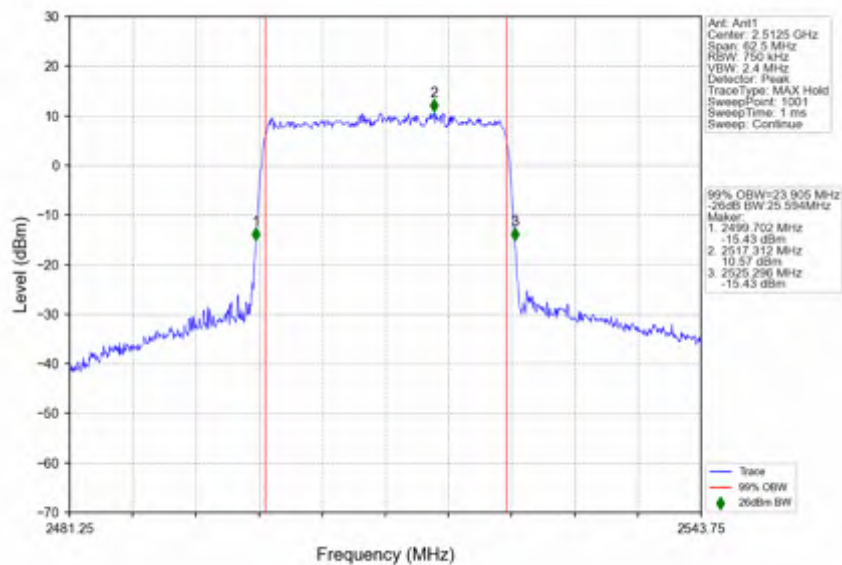
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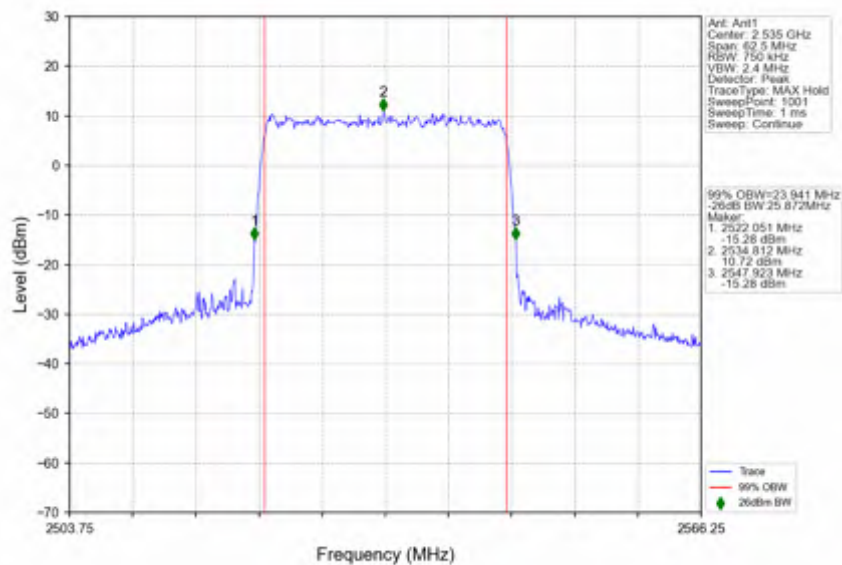
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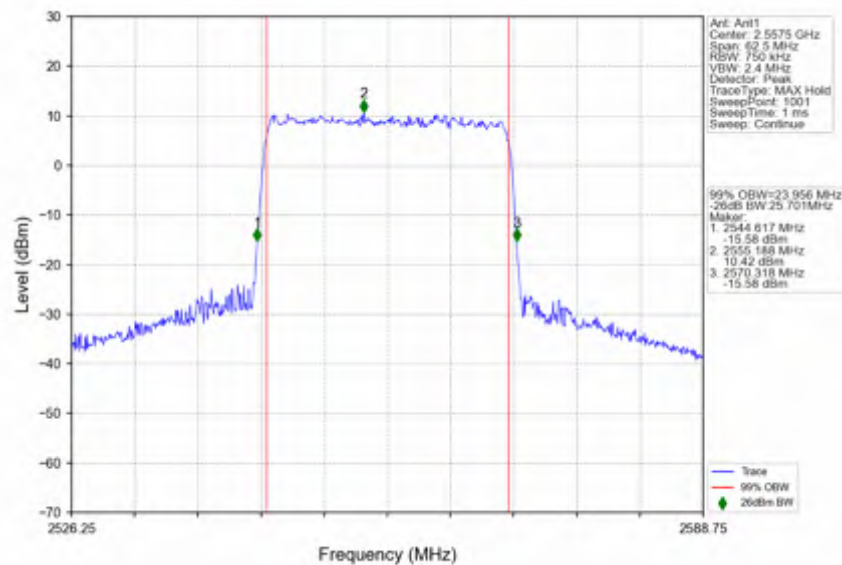
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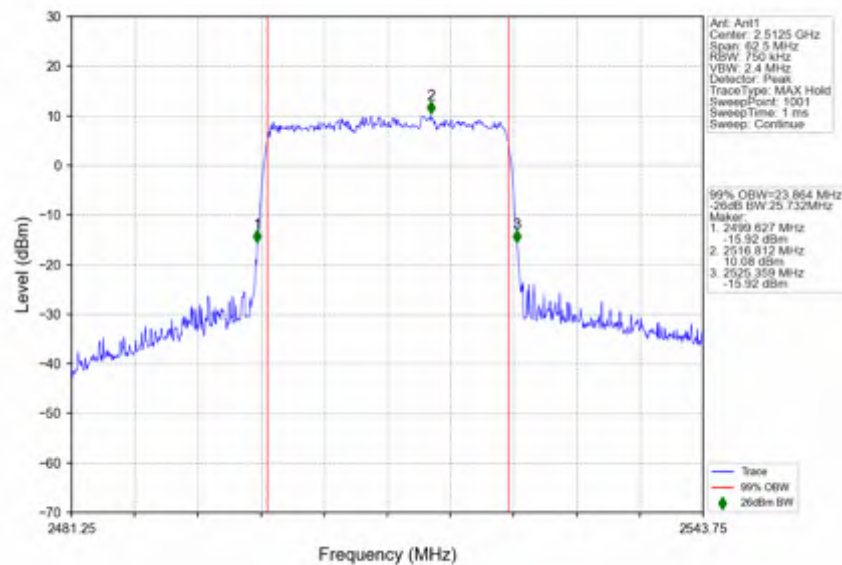
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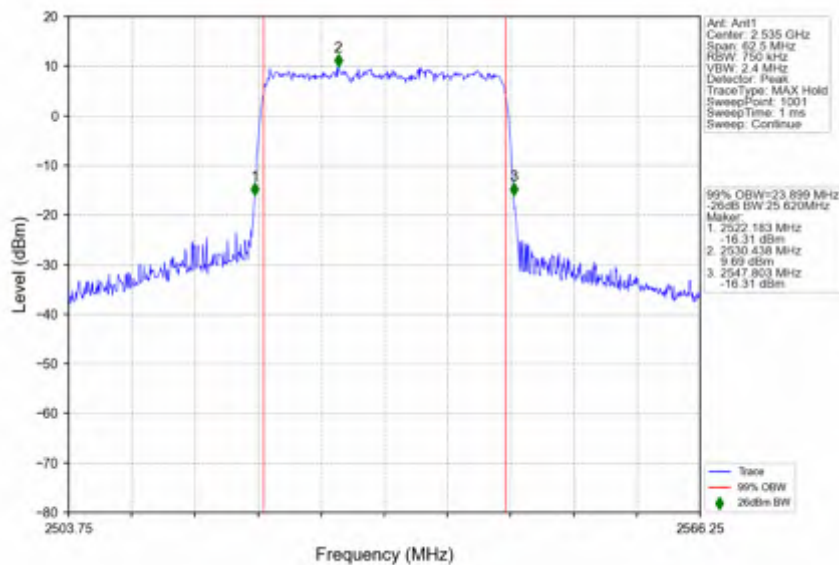
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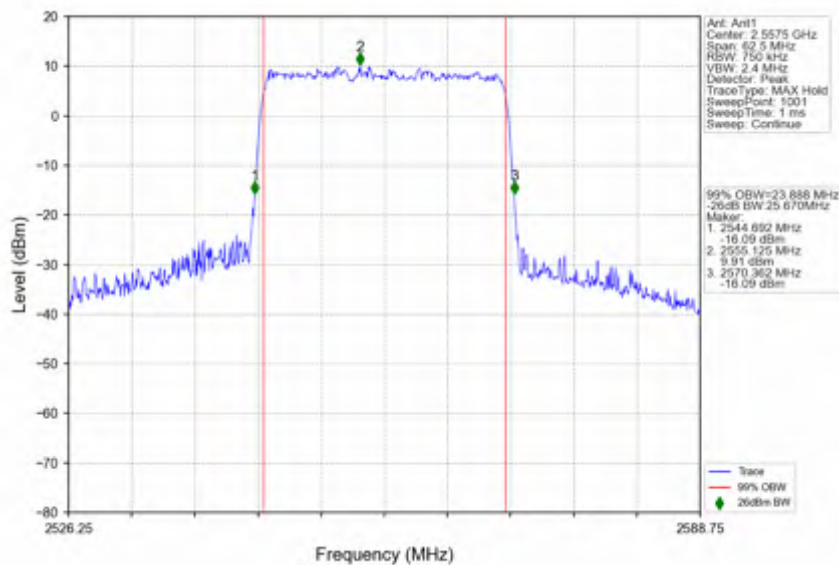
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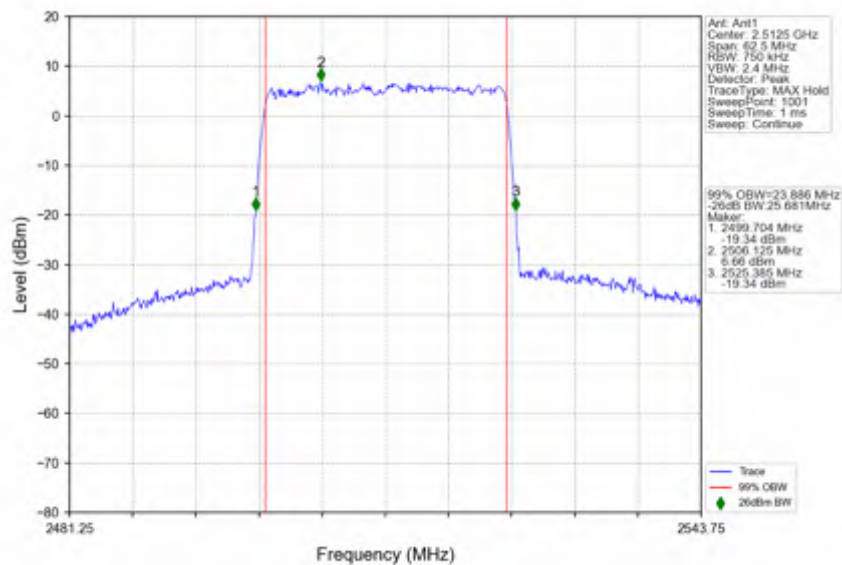
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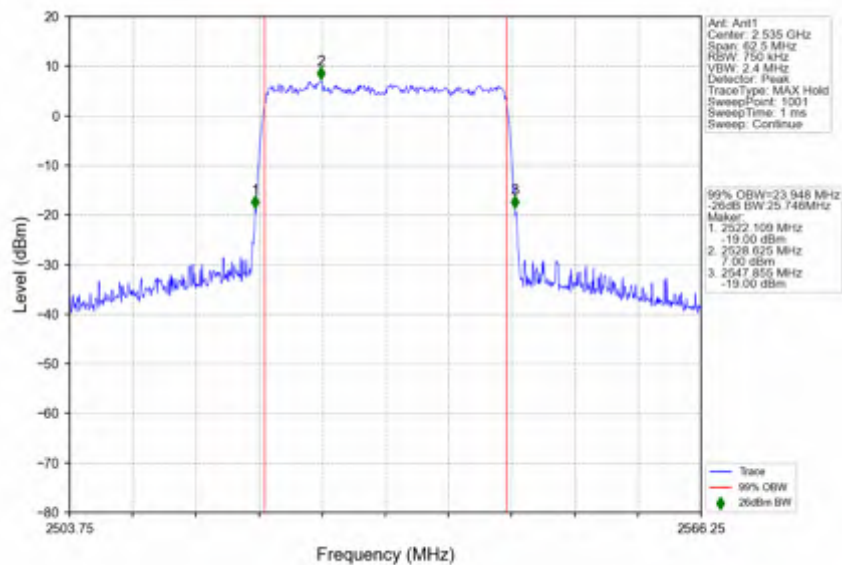
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n7 15kHz SISO NTNv 25MHz CP-OFDM 256 QAM 2512.5MHz Outer Full



n7 15kHz SISO NTNV 25MHz CP-OFDM 256 QAM 2535MHz Outer Full

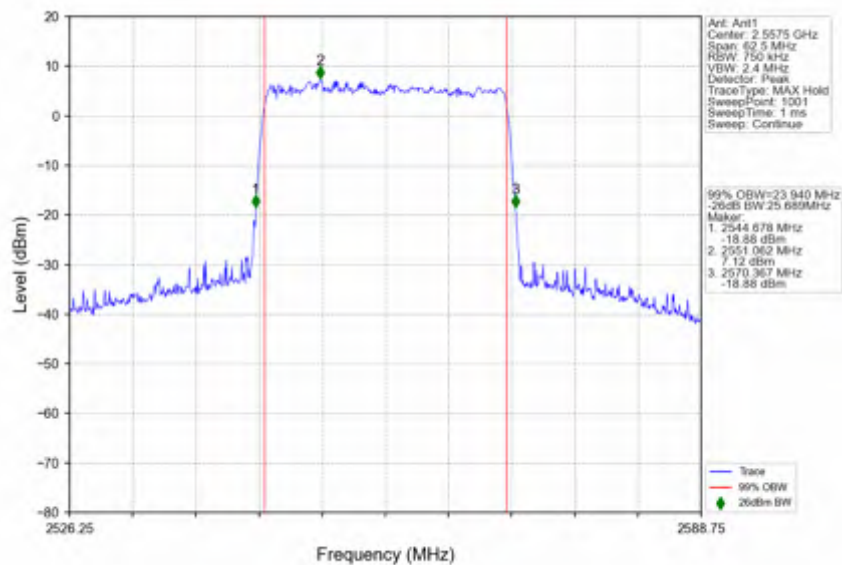


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n7_15kHz_SISO_NTNV_25MHz_CP-OFDM 256 QAM_2557.5MHz_Outer_Full



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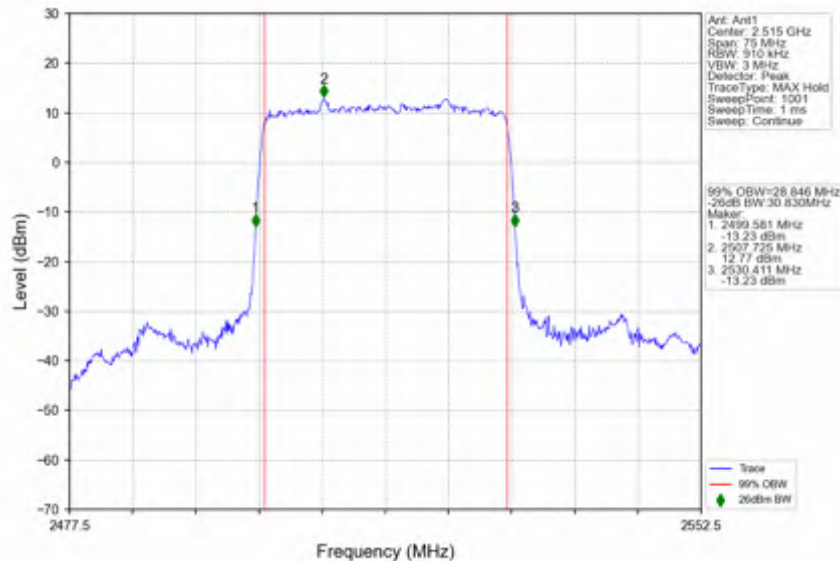
3.6 15k_SISO_30MHz_NTNV

3.6.1 Test Result

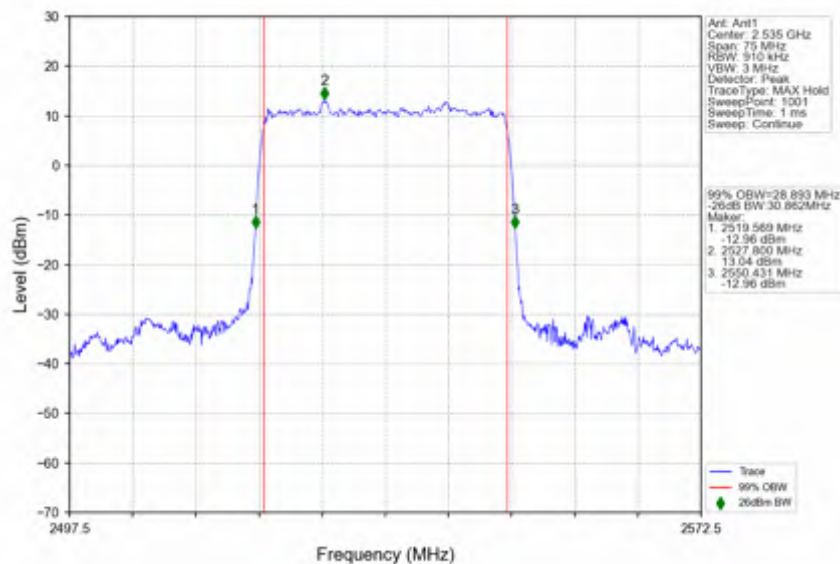
5G NR n7 SCS=15kHz SISO 30MHz NTN						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	2515	Outer_Full	28.85	30.83	/	Pass
	2535	Outer_Full	28.89	30.86	/	Pass
	2555	Outer_Full	28.84	30.86	/	Pass
DFT-s-OFDM QPSK	2515	Outer_Full	28.74	30.84	/	Pass
	2535	Outer_Full	28.80	30.80	/	Pass
	2555	Outer_Full	28.77	30.83	/	Pass
DFT-s-OFDM 16 QAM	2515	Outer_Full	28.73	30.81	/	Pass
	2535	Outer_Full	28.84	30.89	/	Pass
	2555	Outer_Full	28.80	30.84	/	Pass
DFT-s-OFDM 64 QAM	2515	Outer_Full	28.72	30.86	/	Pass
	2535	Outer_Full	28.79	30.91	/	Pass
	2555	Outer_Full	28.76	30.90	/	Pass
DFT-s-OFDM 256 QAM	2515	Outer_Full	28.70	30.78	/	Pass
	2535	Outer_Full	28.79	30.82	/	Pass
	2555	Outer_Full	28.75	30.80	/	Pass
CP-OFDM QPSK	2515	Outer_Full	28.73	30.77	/	Pass
	2535	Outer_Full	28.78	30.81	/	Pass
	2555	Outer_Full	28.77	30.80	/	Pass
CP-OFDM 16 QAM	2515	Outer_Full	28.83	30.77	/	Pass
	2535	Outer_Full	28.89	30.78	/	Pass
	2555	Outer_Full	28.84	30.79	/	Pass
CP-OFDM 64 QAM	2515	Outer_Full	28.80	30.84	/	Pass
	2535	Outer_Full	28.88	30.85	/	Pass
	2555	Outer_Full	28.82	30.80	/	Pass
CP-OFDM 256 QAM	2515	Outer_Full	28.67	30.72	/	Pass
	2535	Outer_Full	28.77	30.83	/	Pass
	2555	Outer_Full	28.74	30.77	/	Pass

3.6.2 Test Graph

n7_15kHz_SISO_NTNV_30MHz_DFT-s-OFDM_PI/2_BPSK_2515MHz_Outer_Full



n7_15kHz_SISO_NTNV_30MHz_DFT-s-OFDM_PI/2_BPSK_2535MHz_Outer_Full



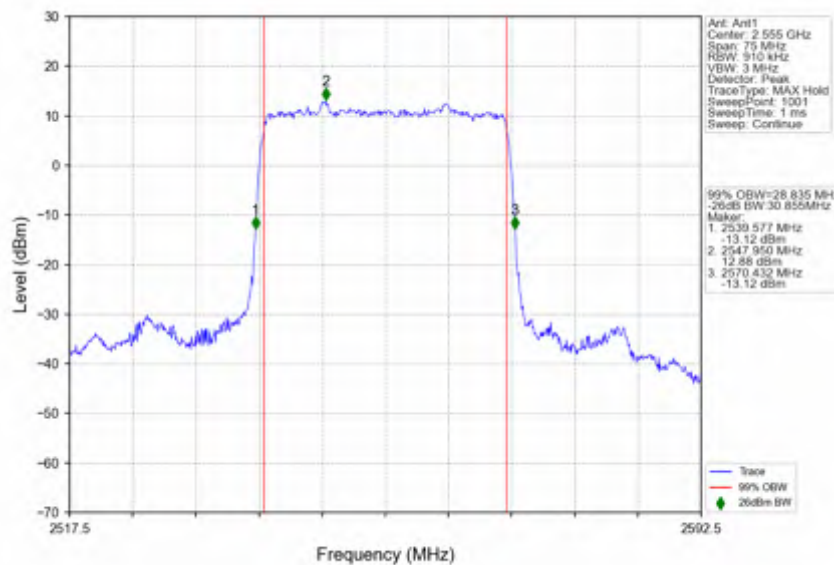
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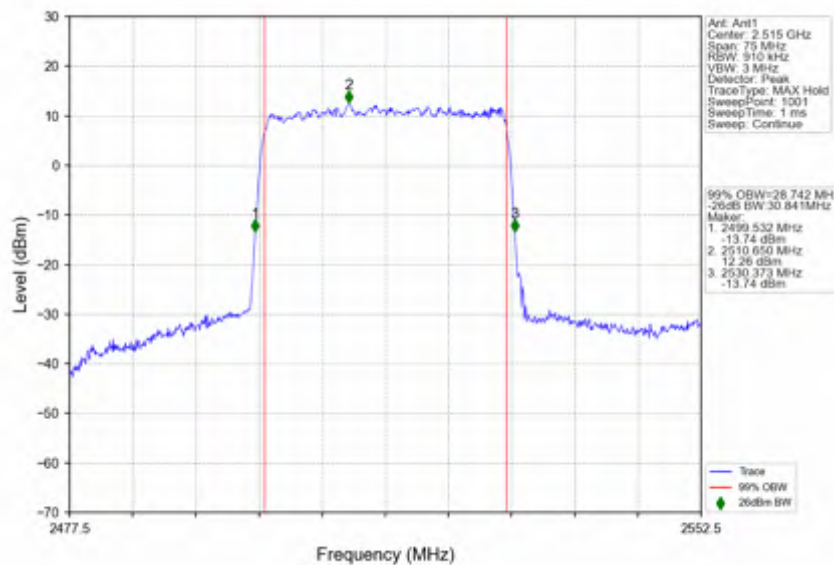
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n7_15kHz_SISO_NTNV_30MHz_DFT-s-OFDM_PI/2_BPSK_2555MHz_Outer_Full



n7_15kHz_SISO_NTNV_30MHz_DFT-s-OFDM_QPSK_2515MHz_Outer_Full

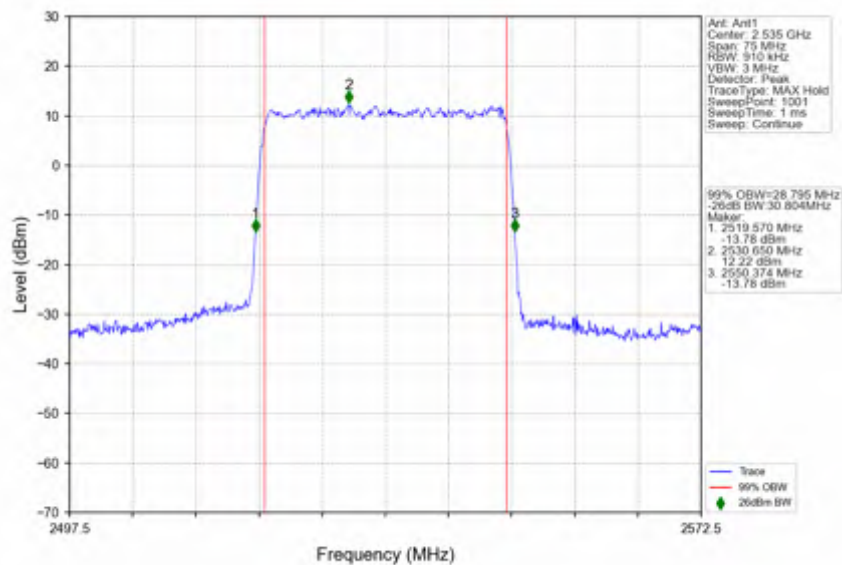


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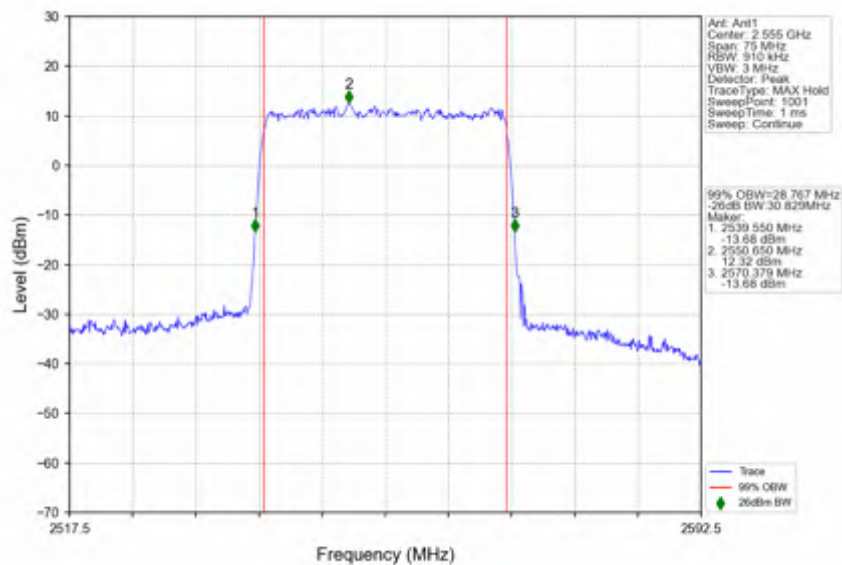
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n7 15kHz SISO NTNv 30MHz DFT-s-OFDM QPSK 2535MHz Outer Full



n7_15kHz_SISO_NTNV_30MHz_DFT-s-OFDM_QPSK_2555MHz_Outer_Full

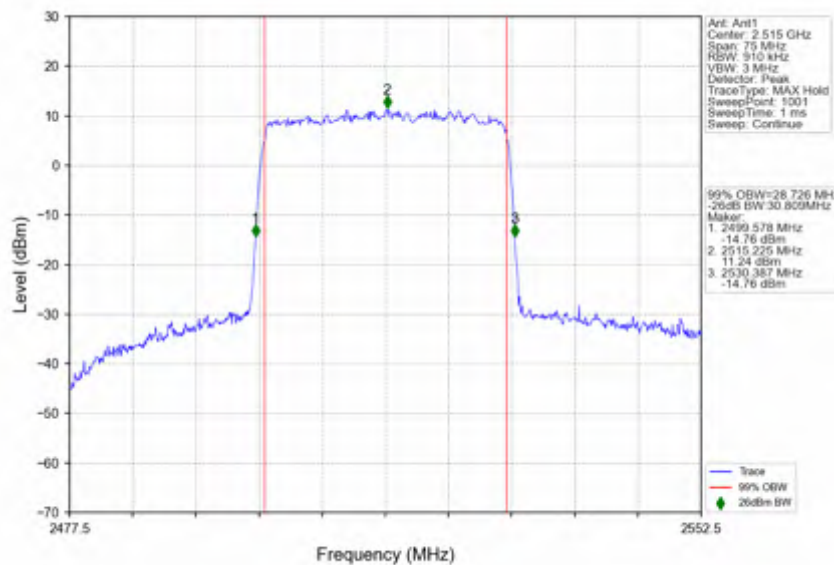


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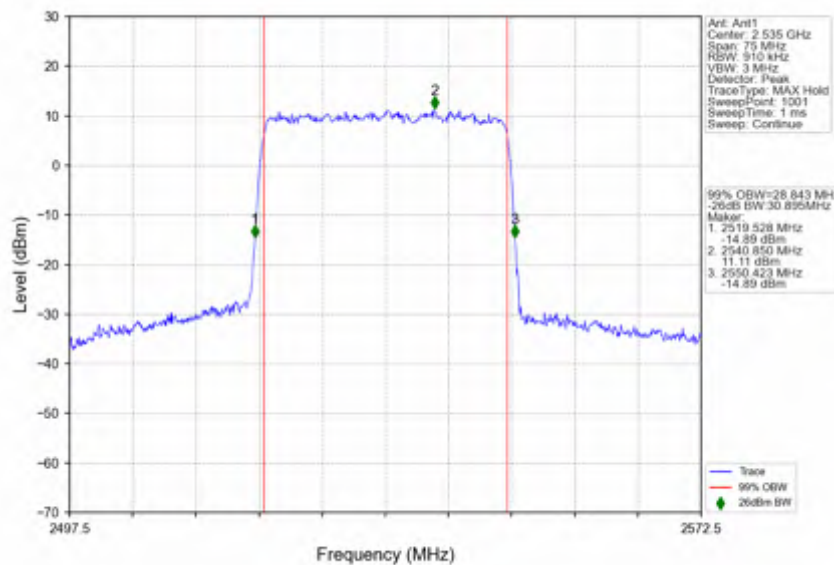
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n7_15kHz_SISO_NTNV_30MHz_DFT-s-OFDM_16_QAM_2515MHz_Outer_Full



n7_15kHz_SISO_NTNV_30MHz_DFT-s-OFDM_16_QAM_2535MHz_Outer_Full



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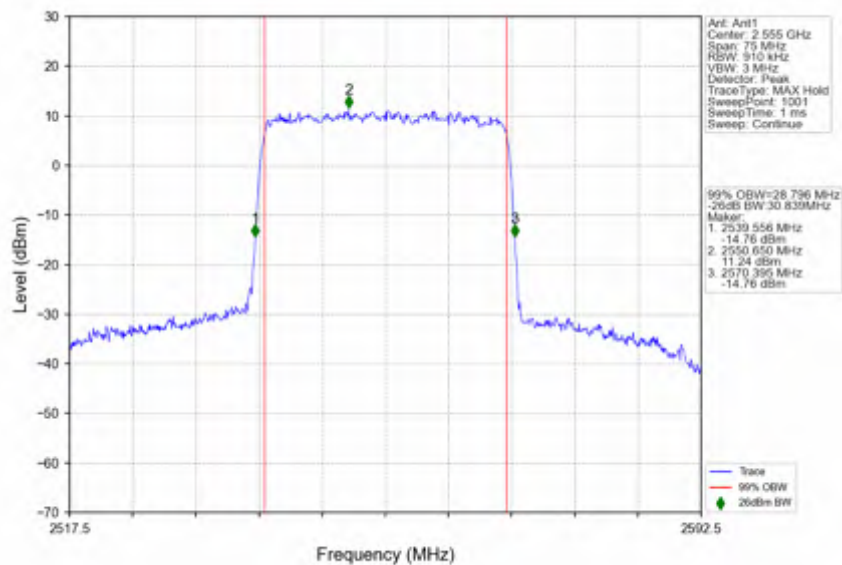
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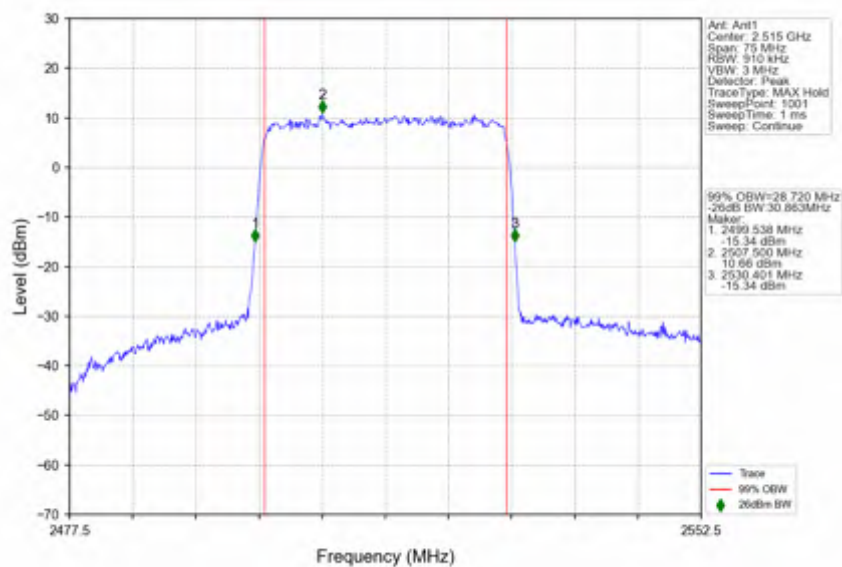
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n7_15kHz_SISO_NTNV_30MHz_DFT-s-OFDM_16_QAM_2555MHz_Outer_Full



n7 15kHz SISO NTNv 30MHz DFT-s-OFDM 64 QAM 2515MHz Outer Full

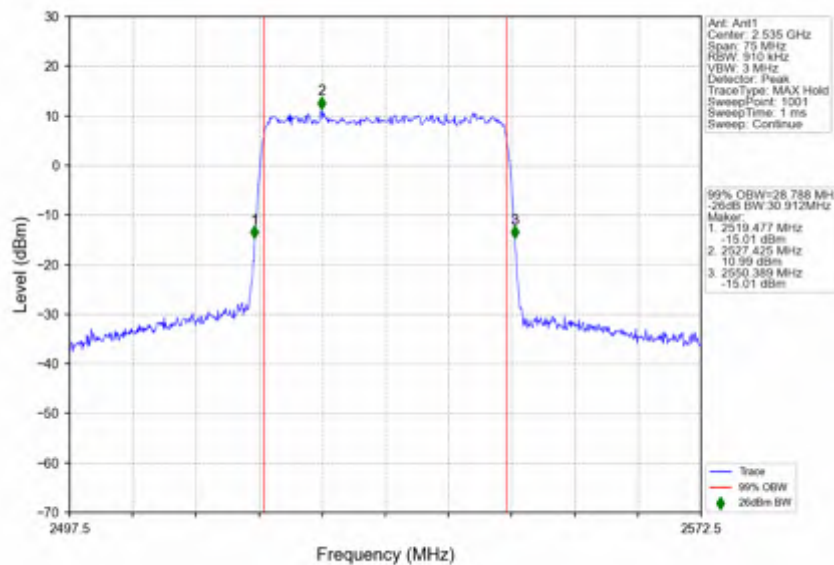


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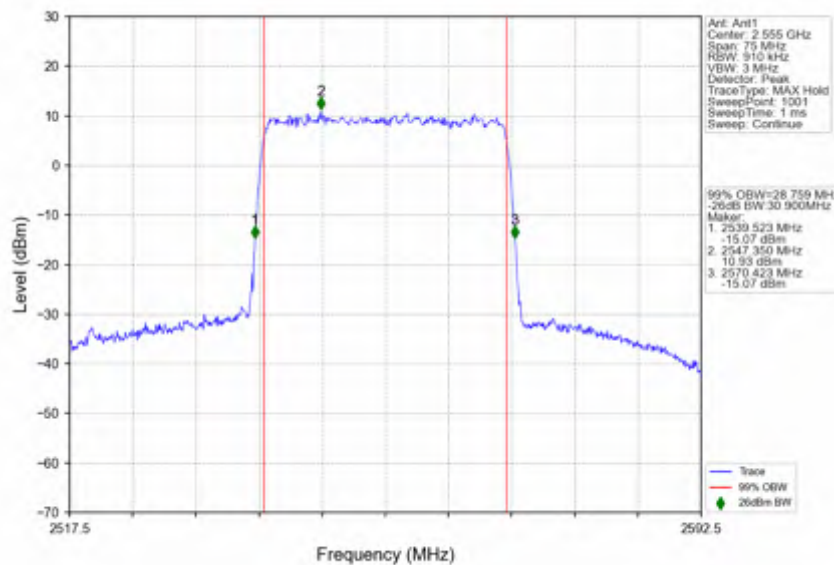
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n7_15kHz_SISO_NTNV_30MHz_DFT-s-OFDM_64_QAM_2555MHz_Outer_Full

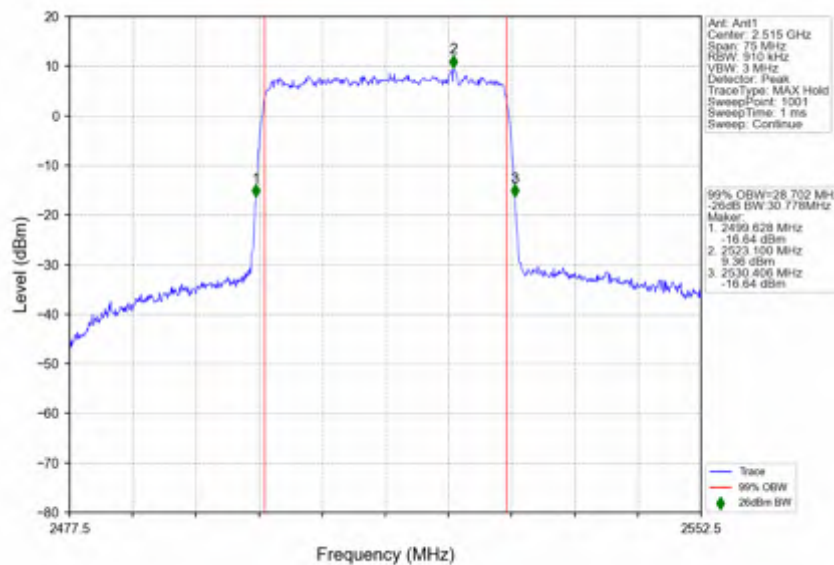


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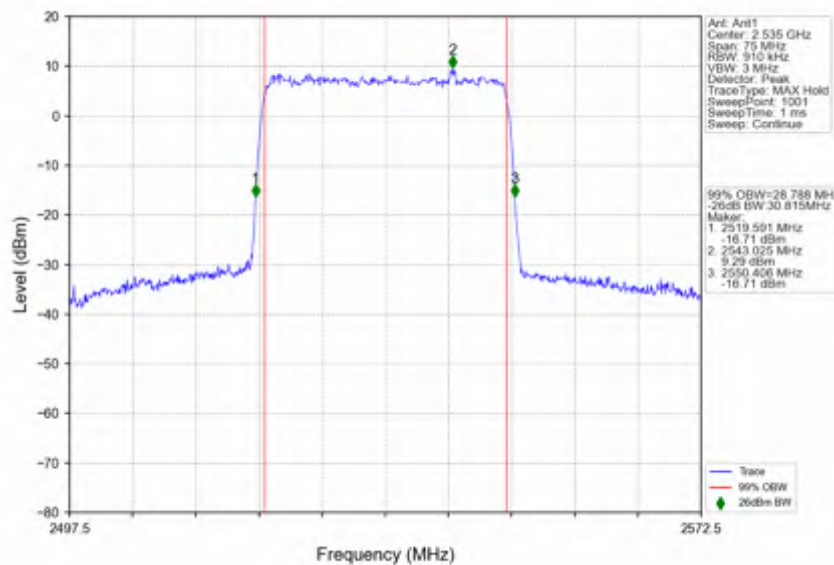
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n7	15kHz	SISO	NTNV	30MHz	DFT-s-OFDM	256 QAM	2515MHz	Outer	Full
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n7_15kHz_SISO_NTNV_30MHz_DFT-s-OFDM_256_QAM_2535MHz_Outer_Full

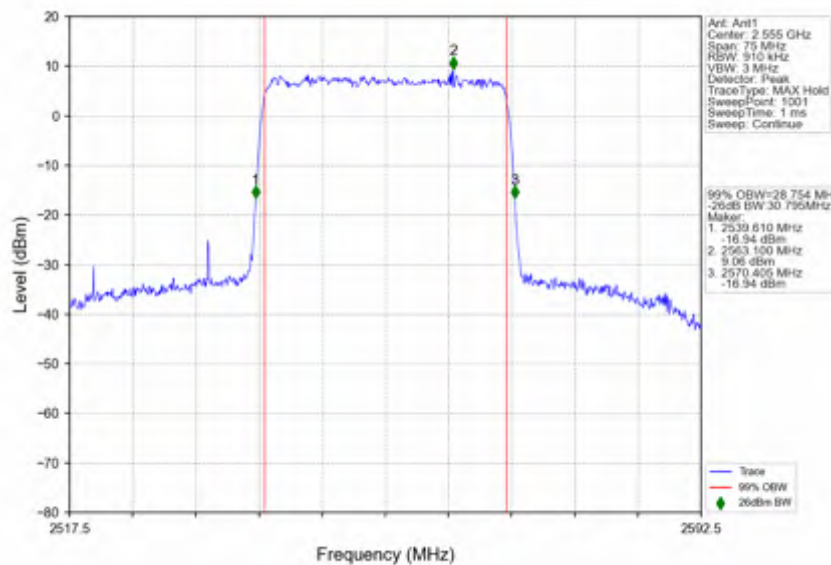


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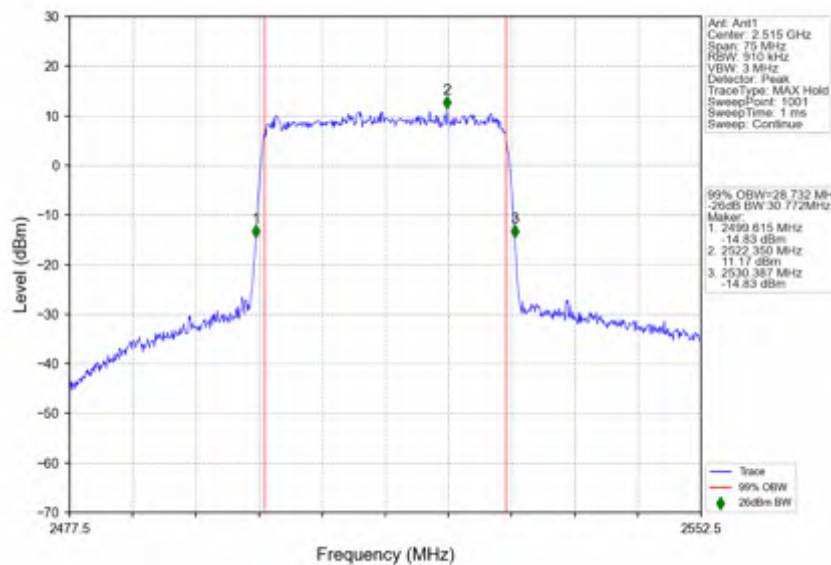
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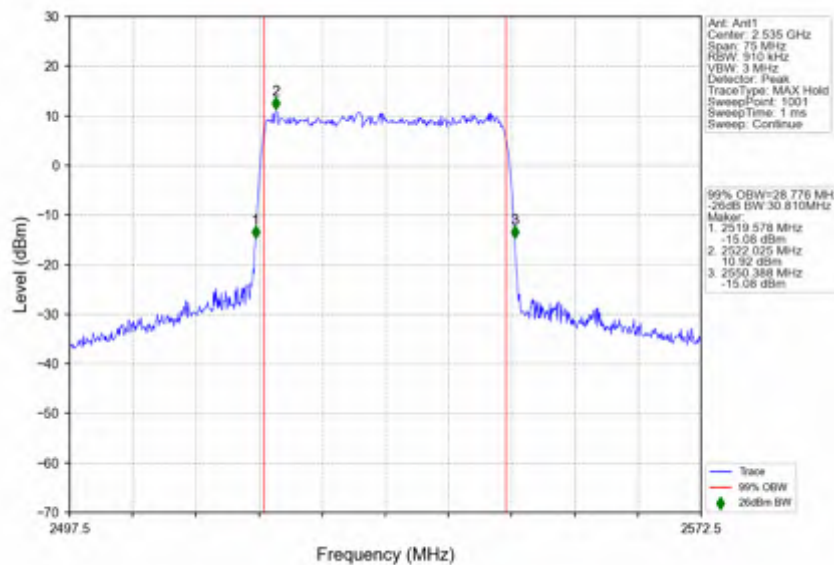
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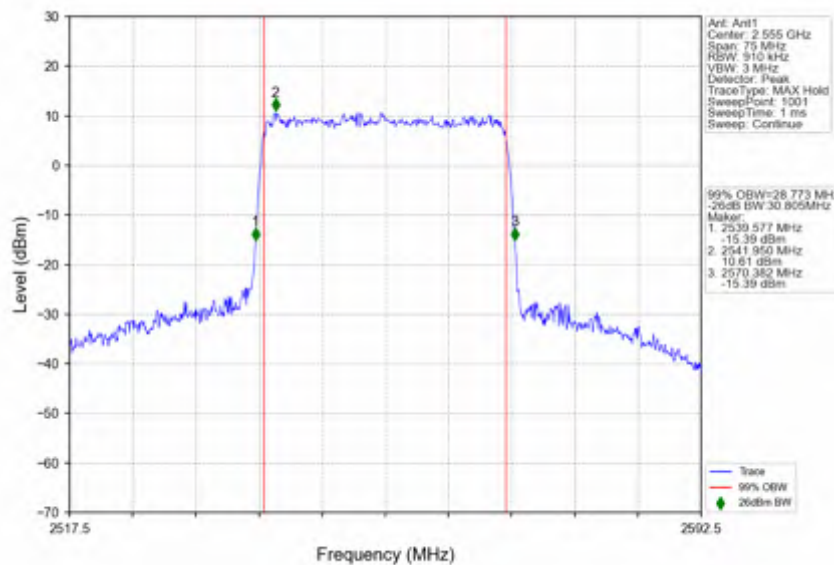
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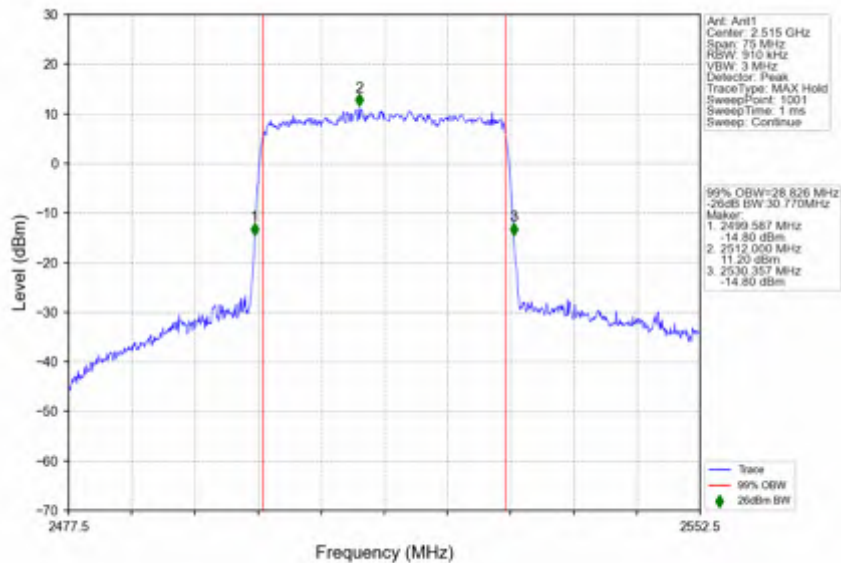
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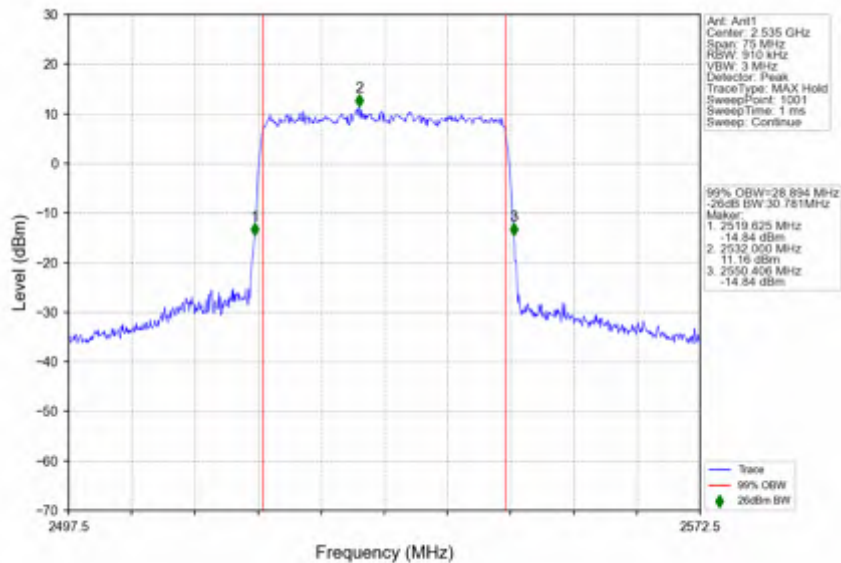
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n7_15kHz_SISO_NTNV_30MHz_CP-OFDM_16_QAM_2515MHz_Outer_Full



n7_15kHz_SISO_NTNV_30MHz_CP-OFDM_16_QAM_2535MHz_Outer_Full



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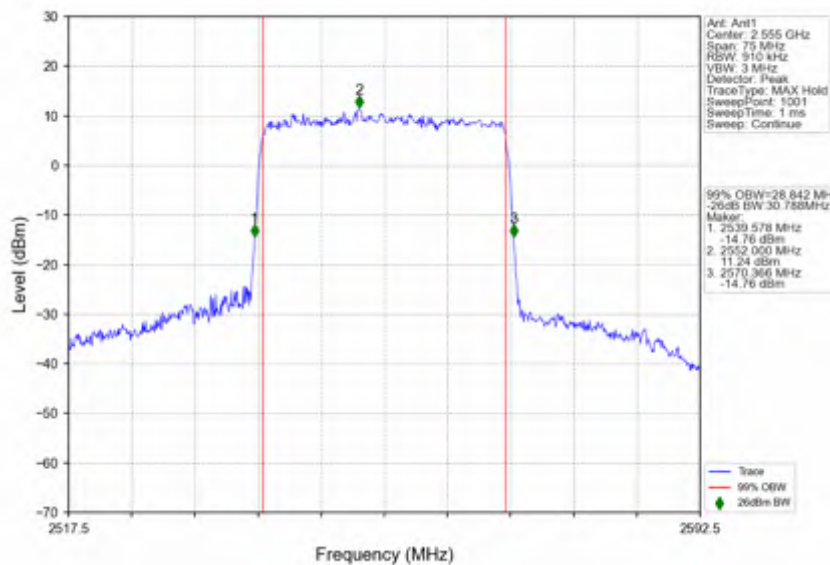
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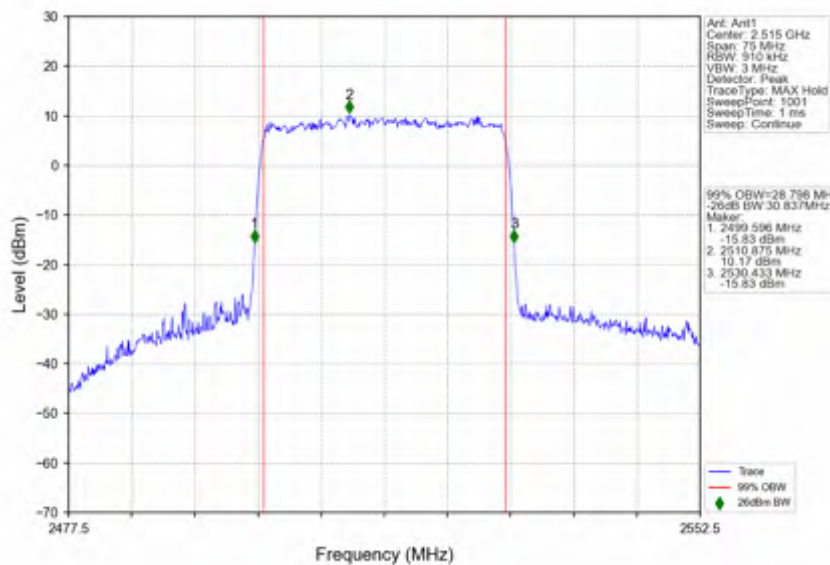
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n7_15kHz_SISO_NTNV_30MHz_CP-OFDM 16 QAM_2555MHz_Outer_Full



n7_15kHz_SISO_NTNV_30MHz_CP-OFDM 64 QAM_2515MHz_Outer_Full



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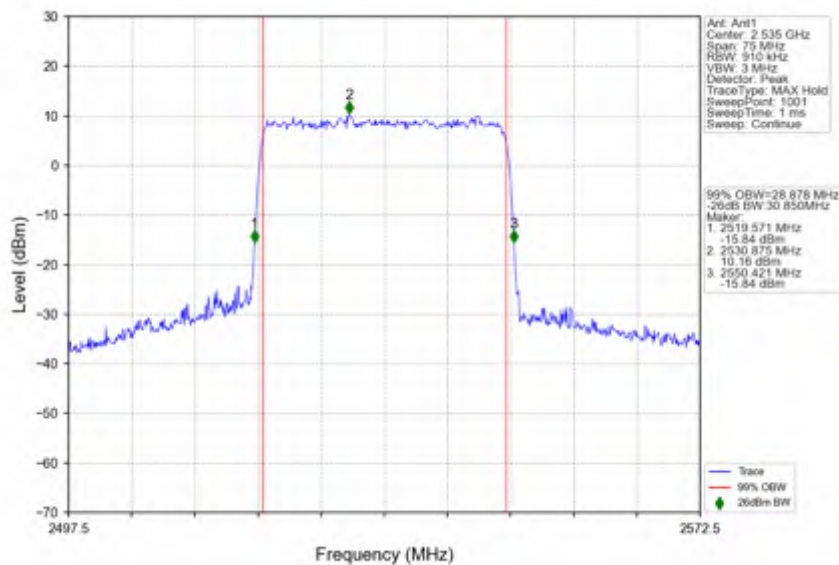
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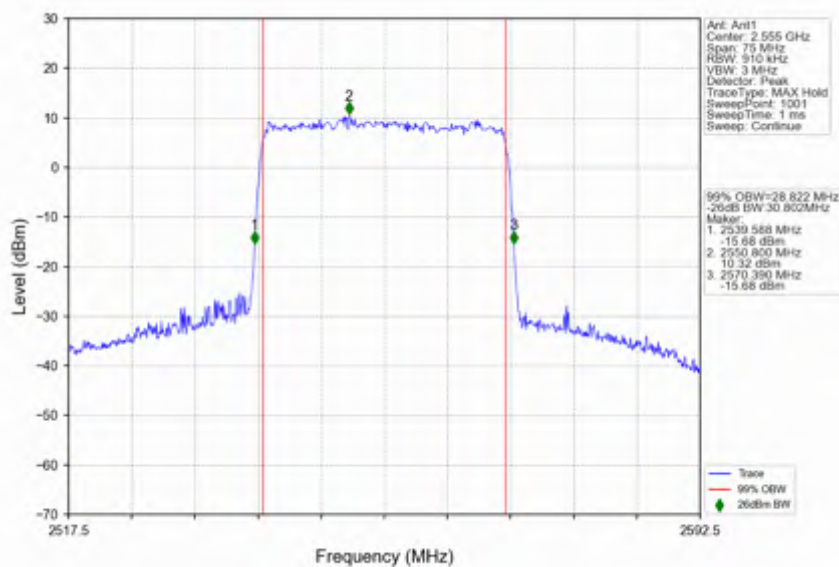
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n7_15kHz_SISO_NTNV_30MHz_CP-OFDM_64_QAM_2535MHz_Outer_Full



n7 15kHz SISO NTN 30MHz CP-OFDM 64 QAM 2555MHz Outer Full

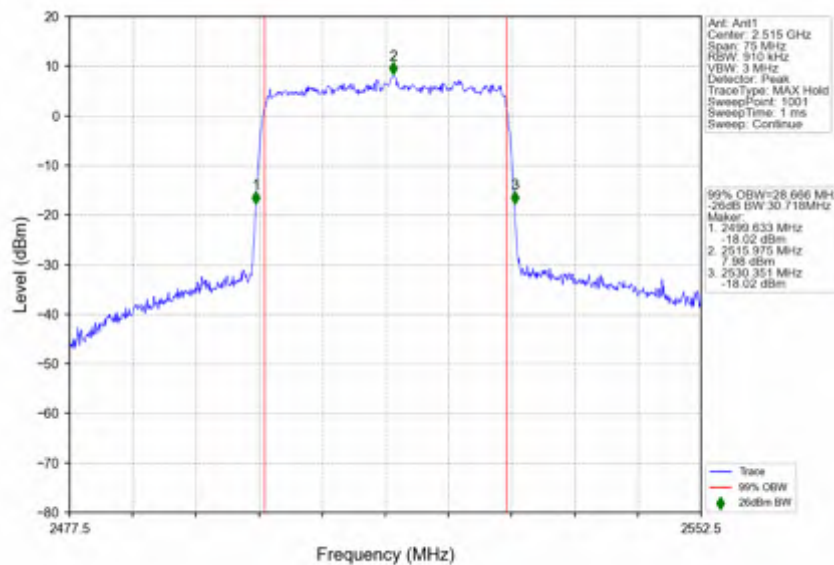


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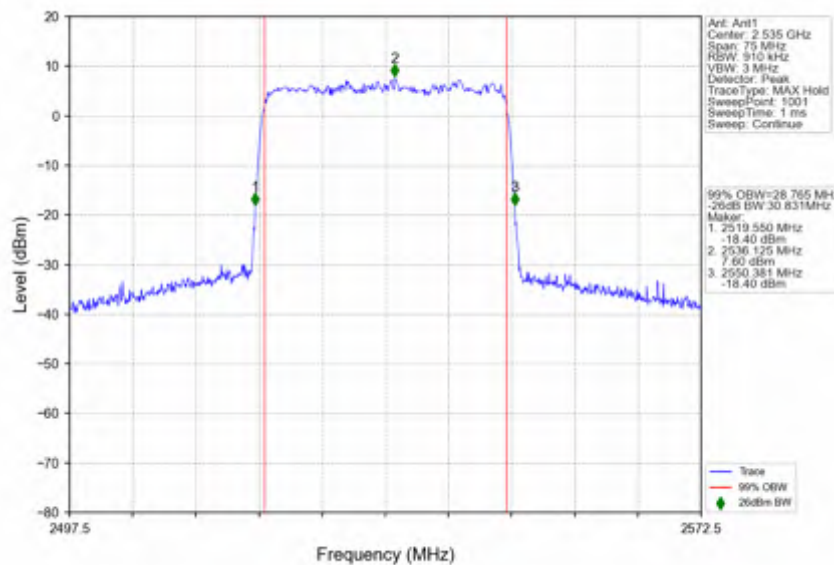
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n7 15kHz SISO NTNv 30MHz CP-OFDM 256 QAM 2515MHz Outer Full



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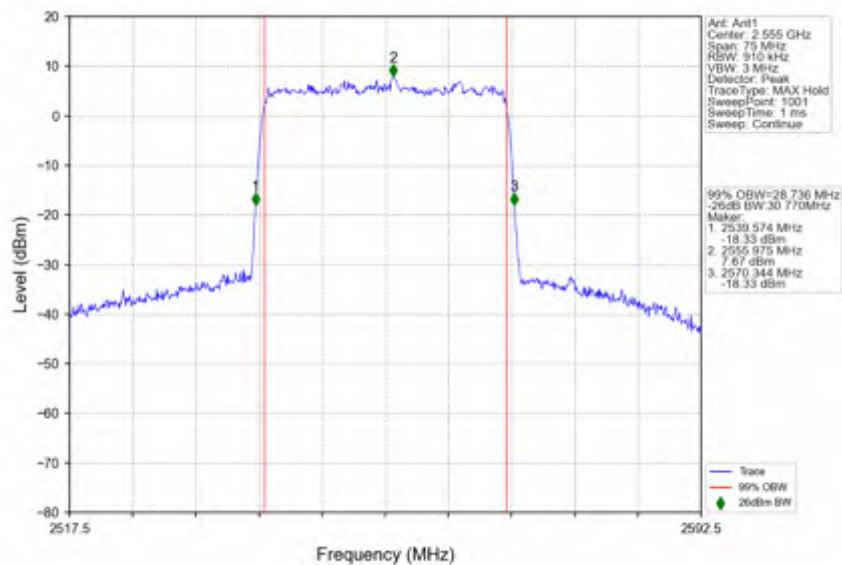


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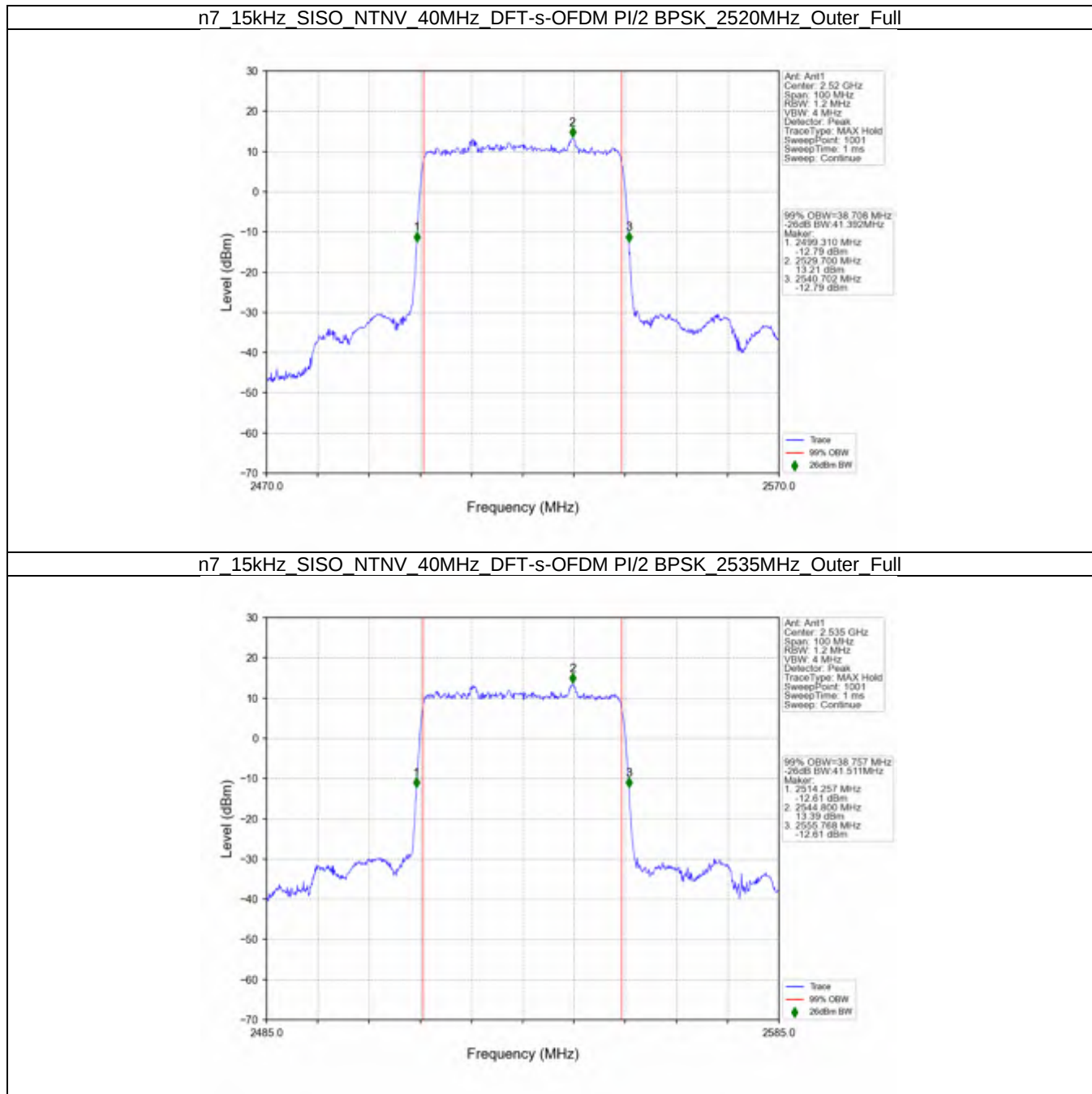
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3.7 15k_SISO_40MHz_NTNV

3.7.1 Test Result

5G NR n7 SCS=15kHz SISO 40MHz NTN						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	2520	Outer_Full	38.71	41.39	/	Pass
	2535	Outer_Full	38.76	41.51	/	Pass
	2550	Outer_Full	38.72	41.45	/	Pass
DFT-s-OFDM QPSK	2520	Outer_Full	38.76	41.50	/	Pass
	2535	Outer_Full	38.82	41.58	/	Pass
	2550	Outer_Full	38.84	41.48	/	Pass
DFT-s-OFDM 16 QAM	2520	Outer_Full	38.85	41.51	/	Pass
	2535	Outer_Full	38.80	41.52	/	Pass
	2550	Outer_Full	38.81	41.56	/	Pass
DFT-s-OFDM 64 QAM	2520	Outer_Full	38.74	41.59	/	Pass
	2535	Outer_Full	38.80	41.60	/	Pass
	2550	Outer_Full	38.75	41.62	/	Pass
DFT-s-OFDM 256 QAM	2520	Outer_Full	38.81	41.57	/	Pass
	2535	Outer_Full	38.85	41.56	/	Pass
	2550	Outer_Full	38.80	41.62	/	Pass
CP-OFDM QPSK	2520	Outer_Full	38.74	41.62	/	Pass
	2535	Outer_Full	38.81	41.59	/	Pass
	2550	Outer_Full	38.78	41.51	/	Pass
CP-OFDM 16 QAM	2520	Outer_Full	38.76	41.59	/	Pass
	2535	Outer_Full	38.84	41.52	/	Pass
	2550	Outer_Full	38.71	41.47	/	Pass
CP-OFDM 64 QAM	2520	Outer_Full	38.71	41.39	/	Pass
	2535	Outer_Full	38.82	41.47	/	Pass
	2550	Outer_Full	38.78	41.43	/	Pass
CP-OFDM 256 QAM	2520	Outer_Full	38.81	41.53	/	Pass
	2535	Outer_Full	38.88	41.56	/	Pass
	2550	Outer_Full	38.84	41.51	/	Pass

3.7.2 Test Graph

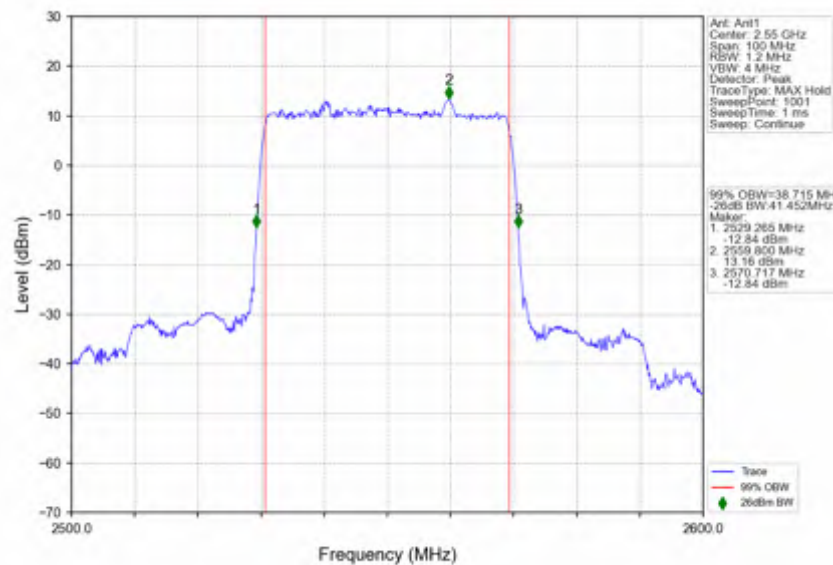


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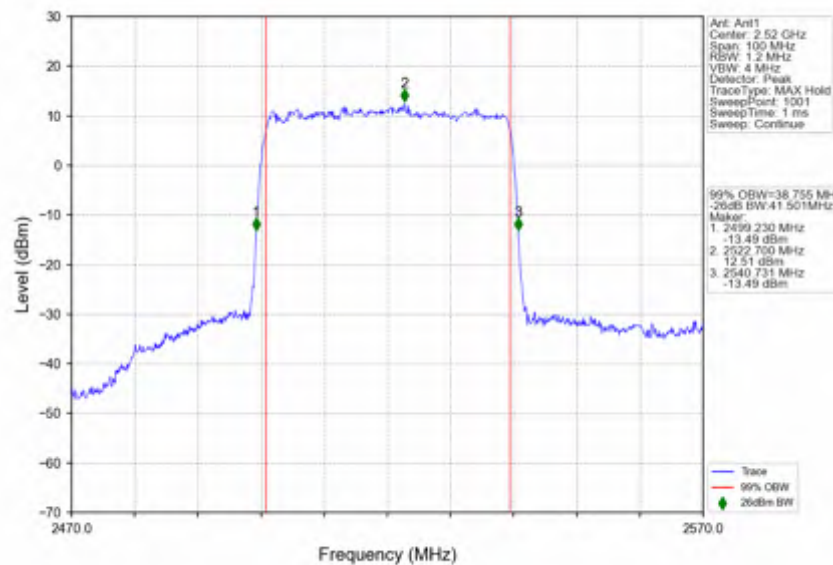
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n7_15kHz_SISO_NTNV_40MHz_DFT-s-OFDM QPSK_2520MHz_Outer_Full



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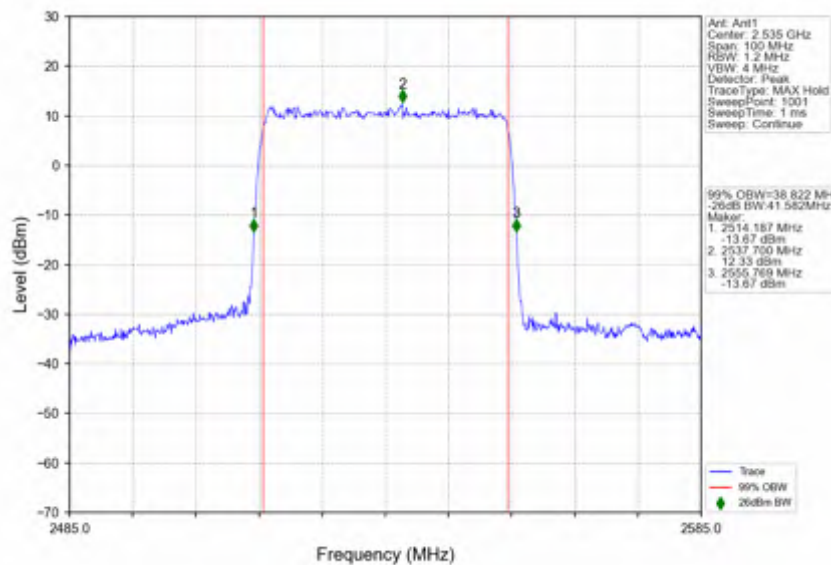
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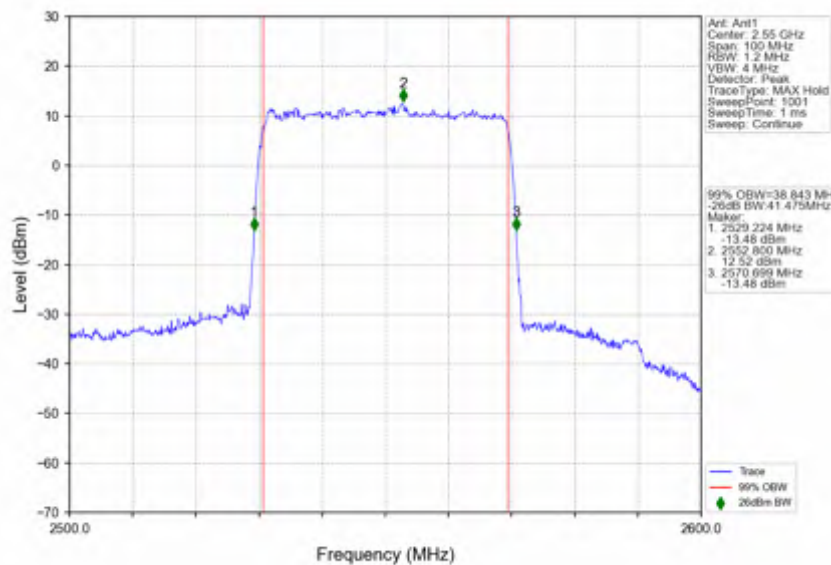
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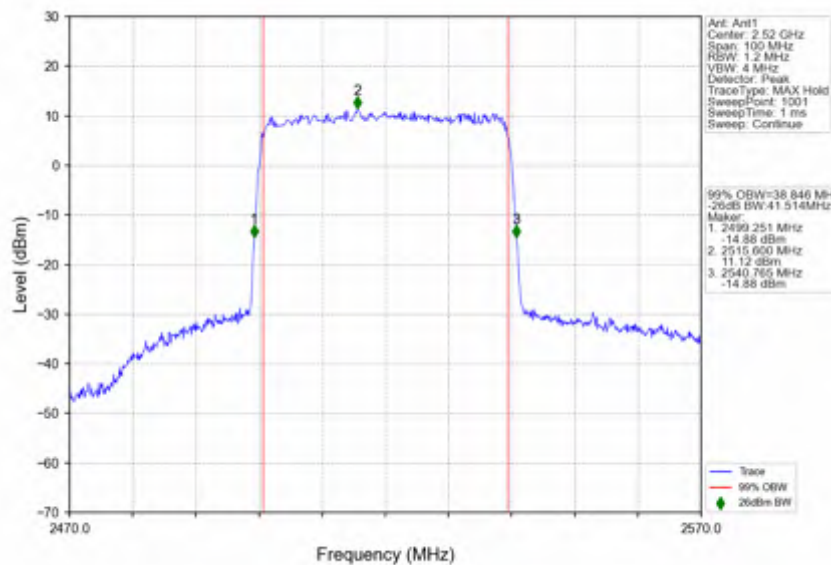


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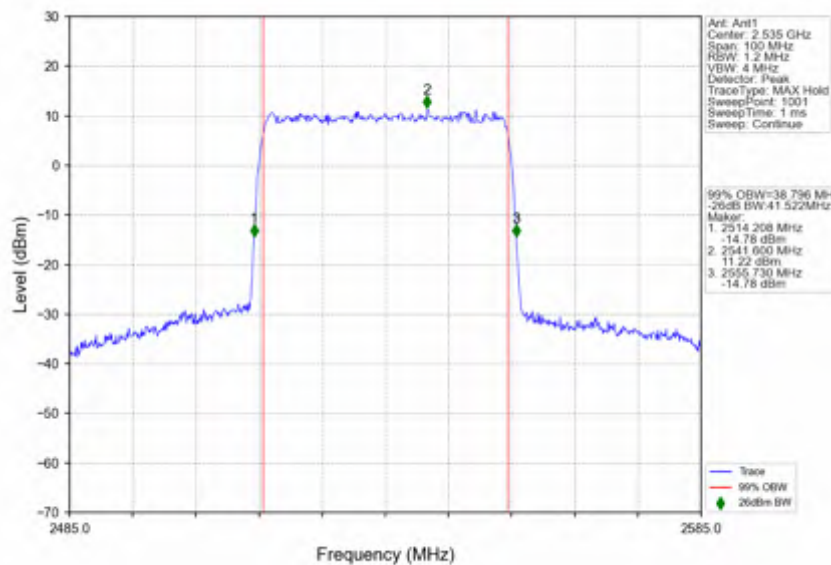
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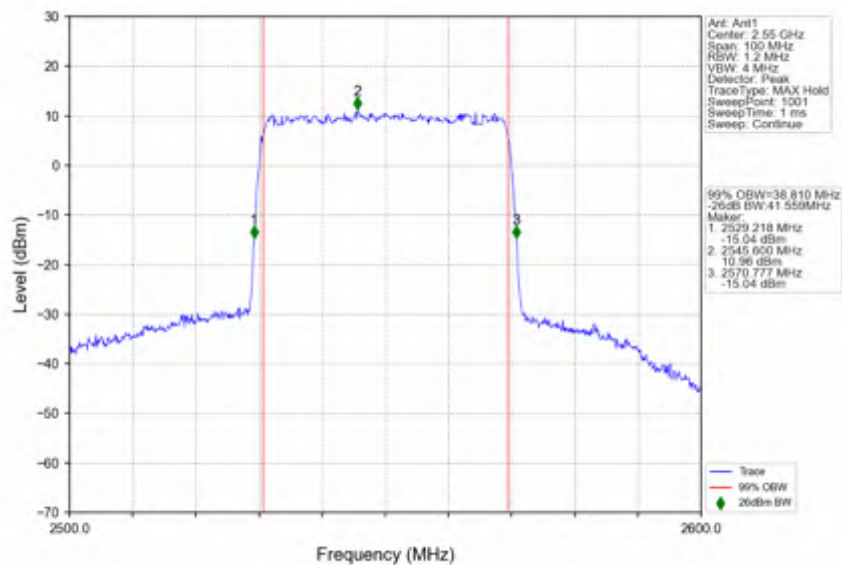
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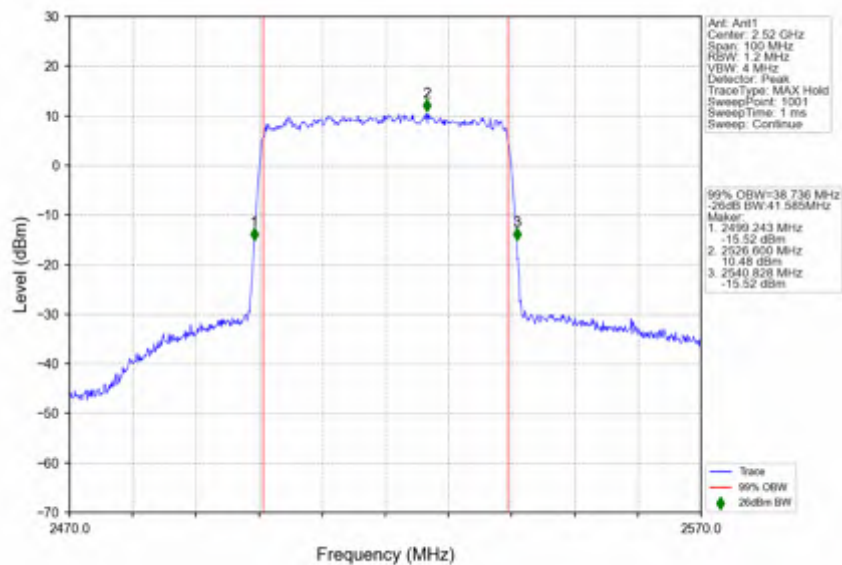
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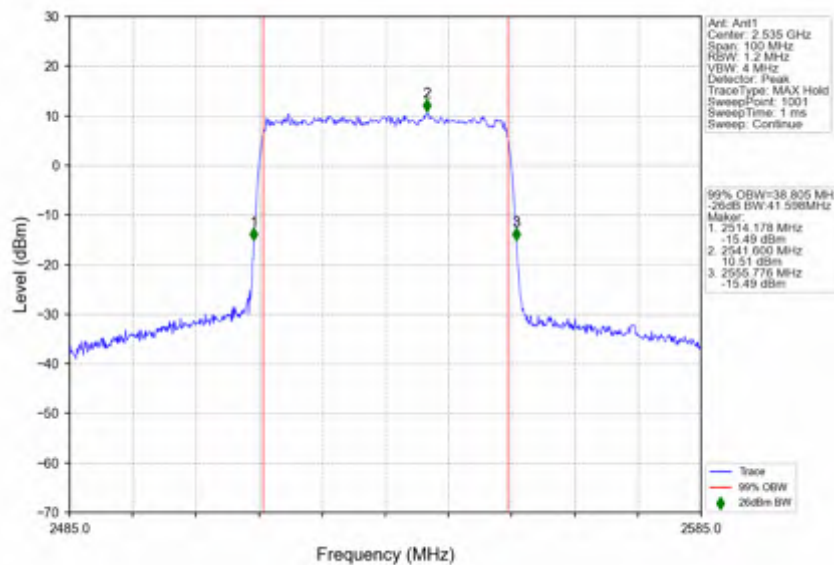
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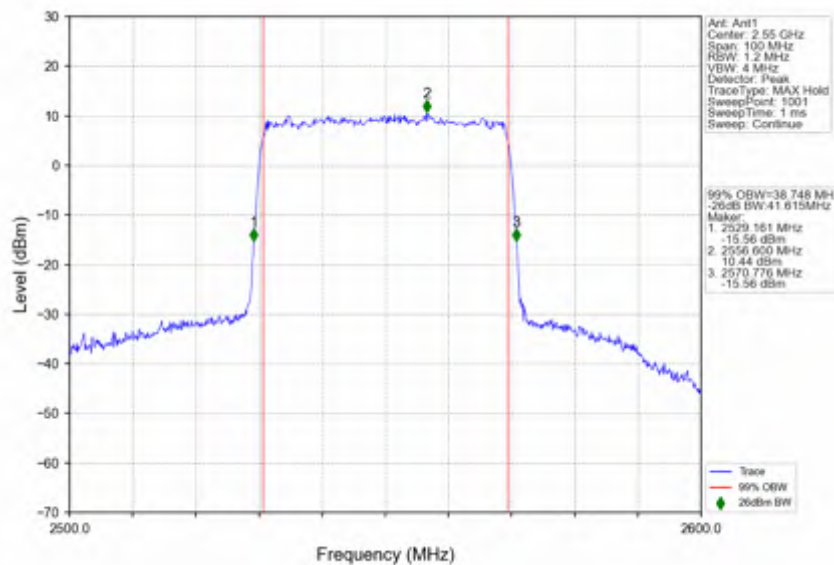
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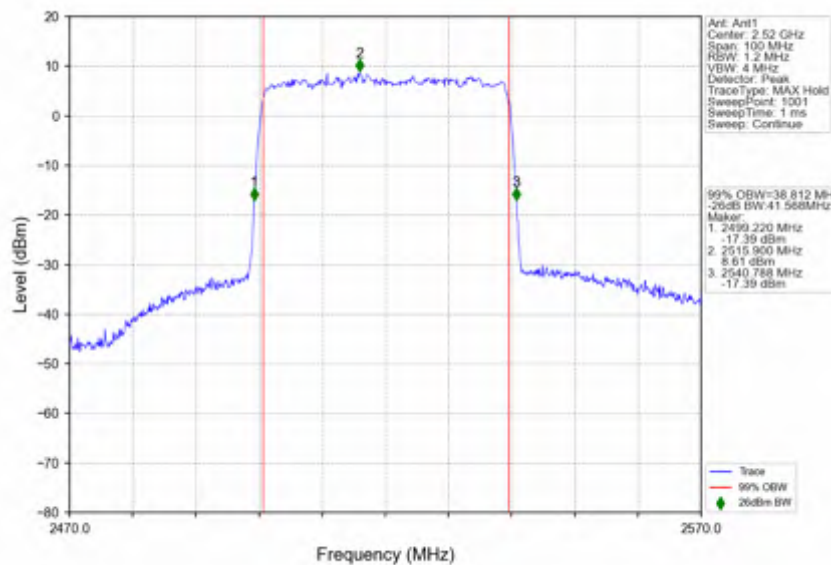
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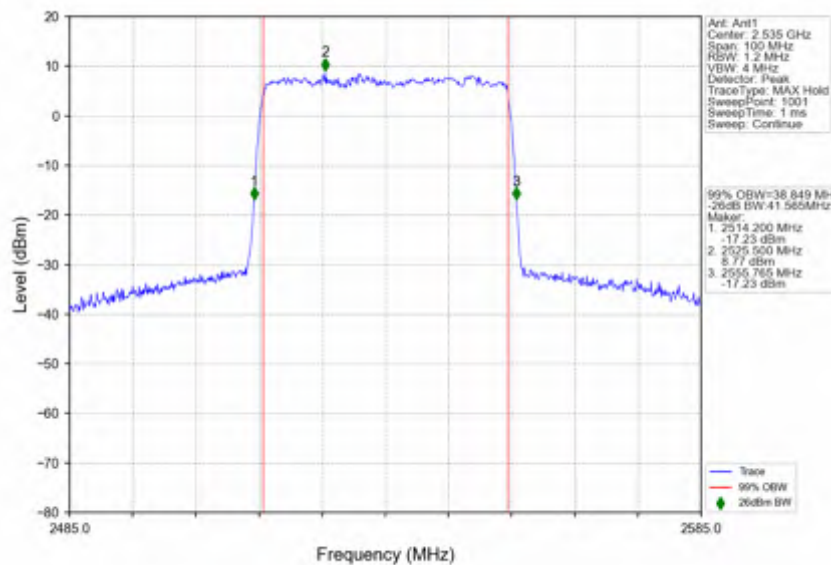
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n7_15kHz_SISO_NTNV_40MHz_DFT-s-OFDM_256_QAM_2535MHz_Outer_Full



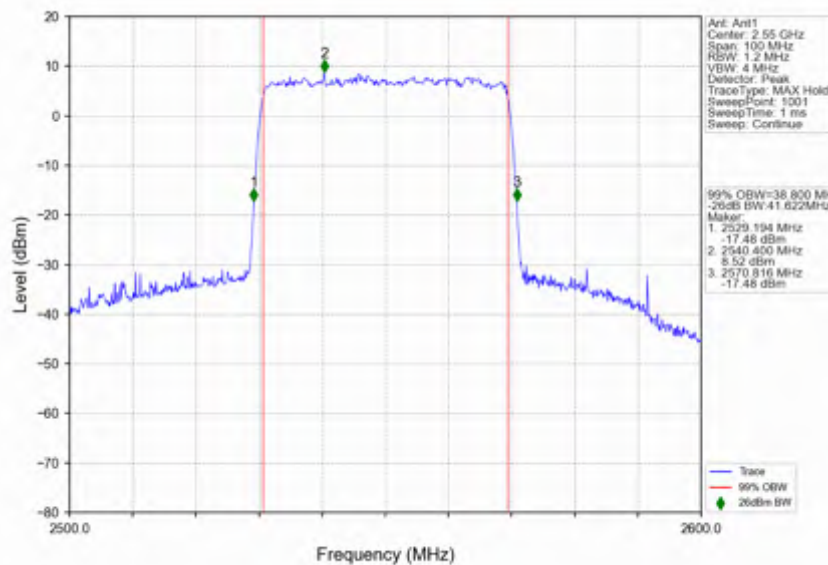
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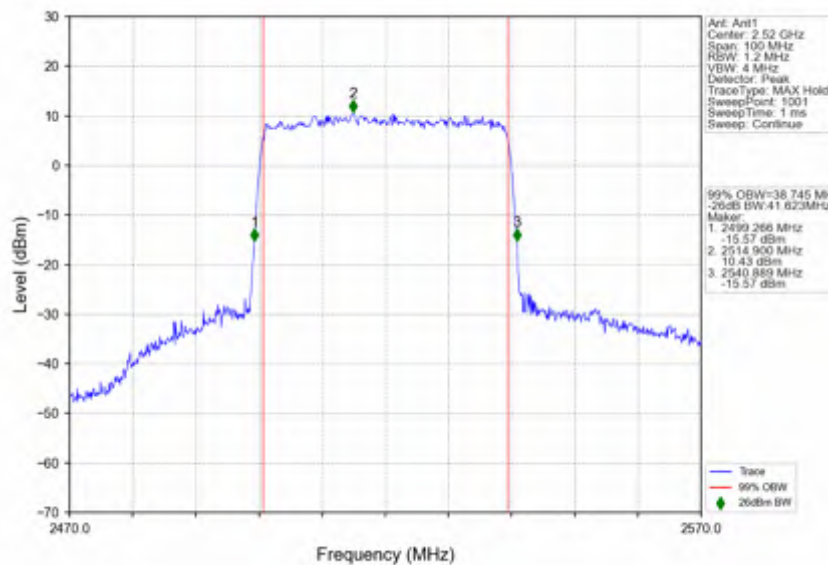
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n7_15kHz_SISO_NTNV_40MHz_DFT-s-OFDM_256 QAM_2550MHz_Outer_Full



n7_15kHz_SISO_NTNV_40MHz_CP-OFDM QPSK_2520MHz_Outer_Full



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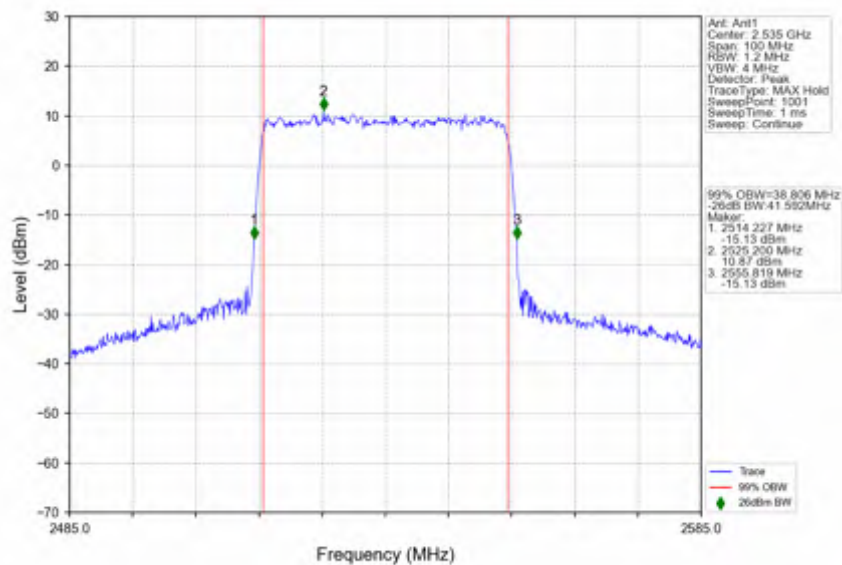
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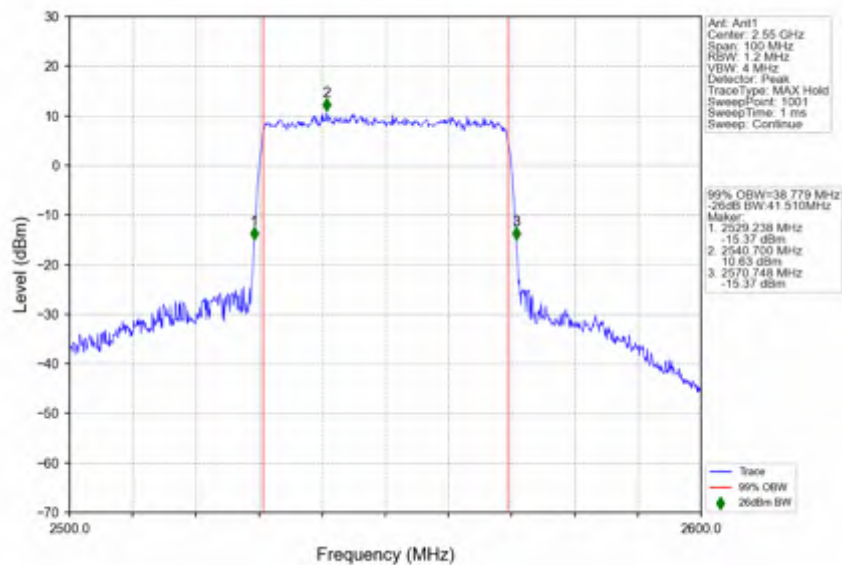
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n7_15kHz_SISO_NTNV_40MHz_CP-OFDM_QPSK_2550MHz_Outer_Full

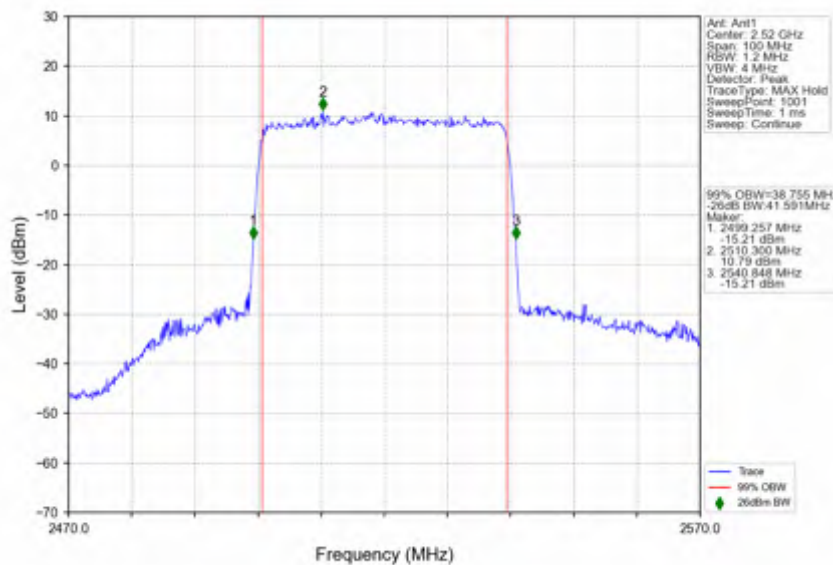


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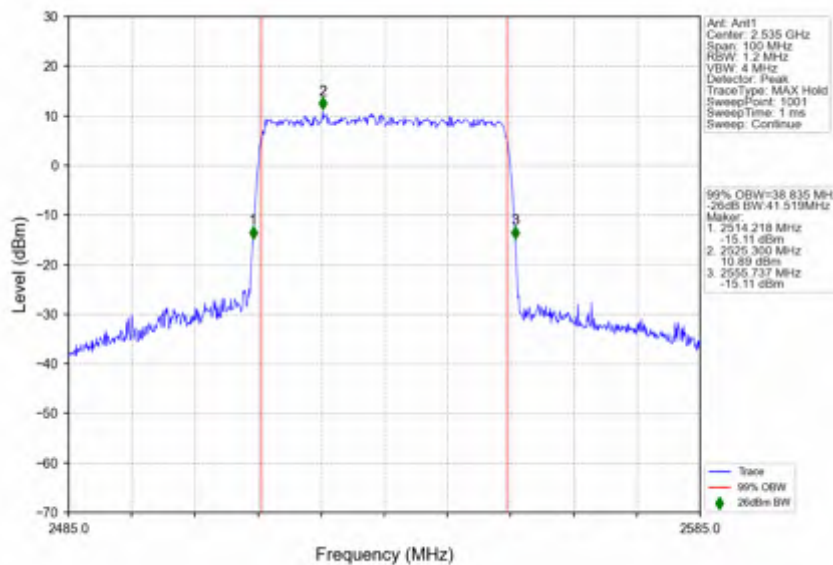
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n7_15kHz_SISO_NTNV_40MHz_CP-OFDM_16_QAM_2520MHz_Outer_Full



n7_15kHz_SISO_NTNV_40MHz_CP-OFDM_16_QAM_2535MHz_Outer_Full



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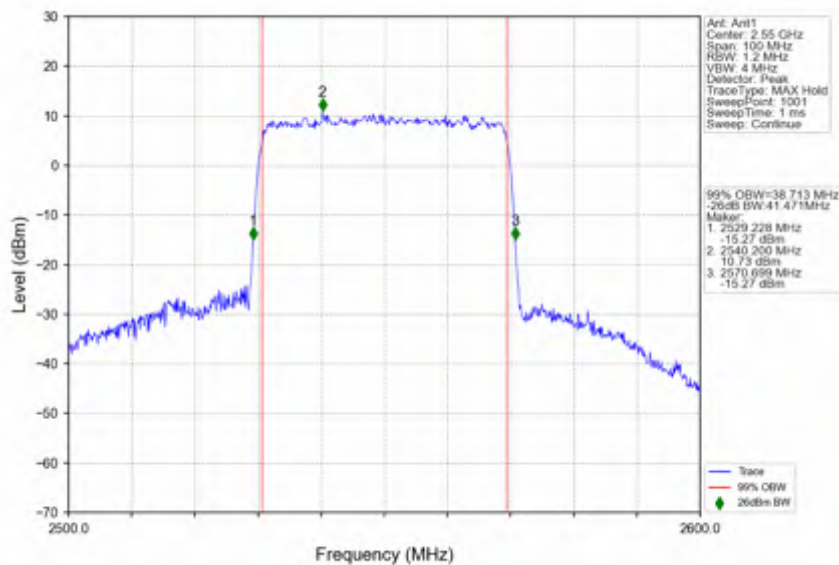
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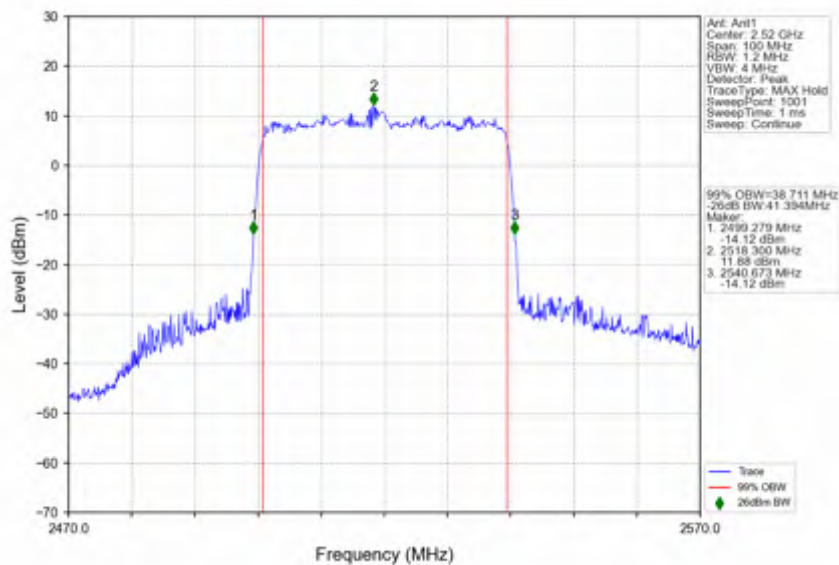
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n7_15kHz_SISO_NTNV_40MHz_CP-OFDM 16 QAM_2550MHz_Outer_Full



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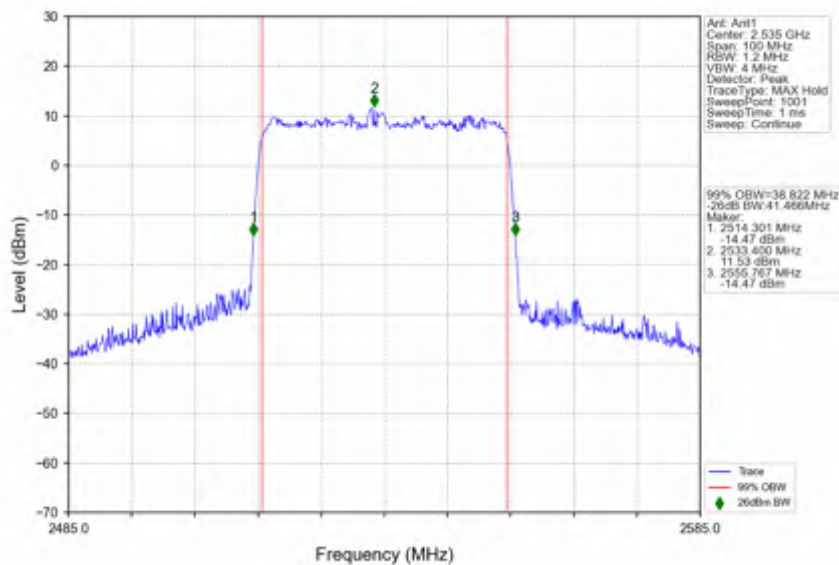
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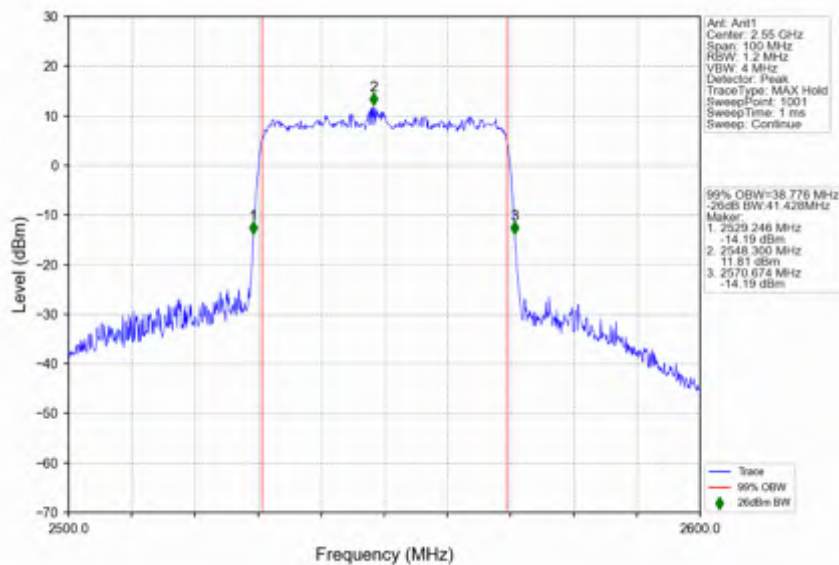
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n7_15kHz_SISO_NTNV_40MHz_CP-OFDM 64 QAM_2550MHz_Outer_Full



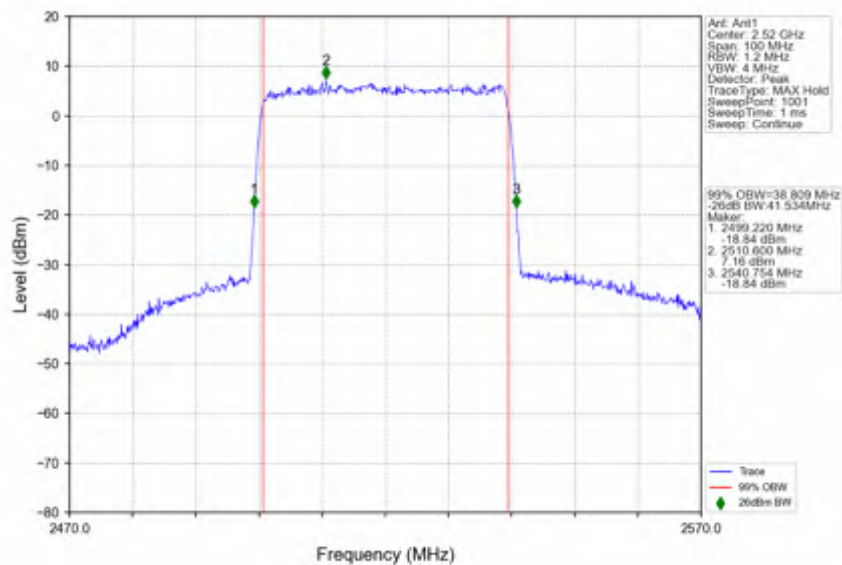
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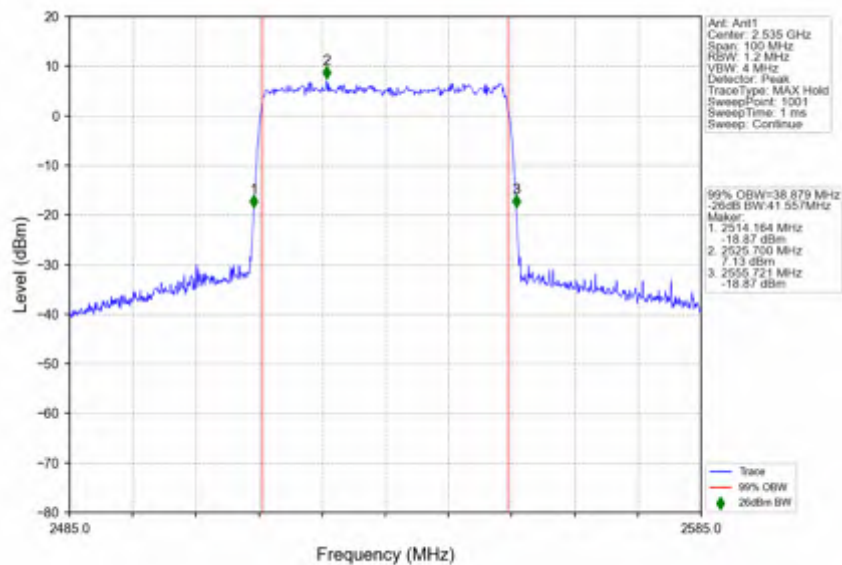
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n7_15kHz_SISO_NTNV_40MHz_CP-OFDM_256_QAM_2520MHz_Outer_Full



n7_15kHz_SISO_NTNV_40MHz_CP-OFDM_256_QAM_2535MHz_Outer_Full



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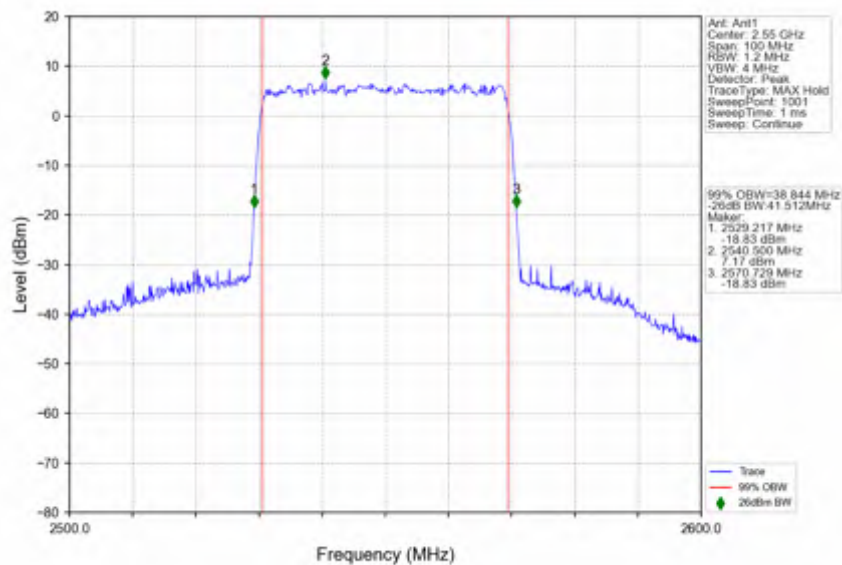
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n7 15kHz SISO NTNv 40MHz CP-OFDM 256 QAM 2550MHz Outer Full



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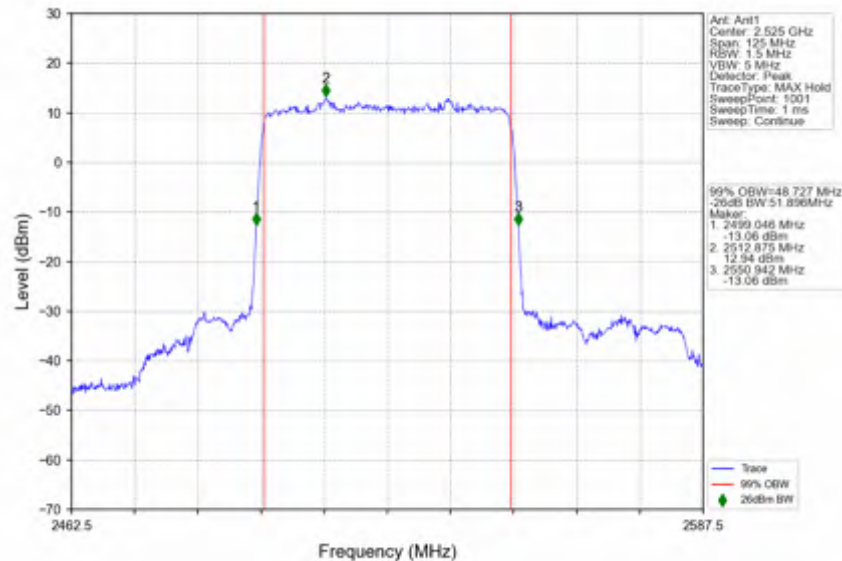
3.8 15k_SISO_50MHz_NTNV

3.8.1 Test Result

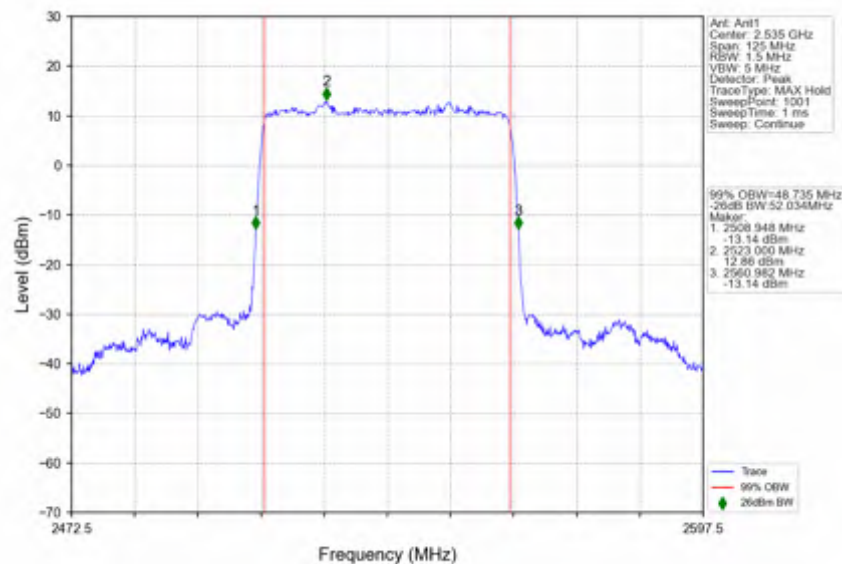
5G NR n7 SCS=15kHz SISO 50MHz NTN						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	2525	Outer_Full	48.73	51.90	/	Pass
	2535	Outer_Full	48.73	52.03	/	Pass
	2545	Outer_Full	48.72	51.94	/	Pass
DFT-s-OFDM QPSK	2525	Outer_Full	48.64	51.96	/	Pass
	2535	Outer_Full	48.60	51.96	/	Pass
	2545	Outer_Full	48.72	51.97	/	Pass
DFT-s-OFDM 16 QAM	2525	Outer_Full	48.54	51.93	/	Pass
	2535	Outer_Full	48.51	51.96	/	Pass
	2545	Outer_Full	48.54	52.01	/	Pass
DFT-s-OFDM 64 QAM	2525	Outer_Full	48.59	52.01	/	Pass
	2535	Outer_Full	48.62	51.99	/	Pass
	2545	Outer_Full	48.65	52.04	/	Pass
DFT-s-OFDM 256 QAM	2525	Outer_Full	48.71	51.99	/	Pass
	2535	Outer_Full	48.73	51.95	/	Pass
	2545	Outer_Full	48.75	52.00	/	Pass
CP-OFDM QPSK	2525	Outer_Full	48.44	51.86	/	Pass
	2535	Outer_Full	48.47	51.84	/	Pass
	2545	Outer_Full	48.52	51.99	/	Pass
CP-OFDM 16 QAM	2525	Outer_Full	48.50	51.89	/	Pass
	2535	Outer_Full	48.51	51.85	/	Pass
	2545	Outer_Full	48.67	53.77	/	Pass
CP-OFDM 64 QAM	2525	Outer_Full	48.57	51.86	/	Pass
	2535	Outer_Full	48.62	51.89	/	Pass
	2545	Outer_Full	48.57	51.91	/	Pass
CP-OFDM 256 QAM	2525	Outer_Full	48.40	51.84	/	Pass
	2535	Outer_Full	48.46	51.91	/	Pass
	2545	Outer_Full	48.83	51.07	/	Pass

3.8.2 Test Graph

n7_15kHz_SISO_NTNV_50MHz_DFT-s-OFDM_PI/2_BPSK_2525MHz_Outer_Full



n7_15kHz_SISO_NTNV_50MHz_DFT-s-OFDM_PI/2_BPSK_2535MHz_Outer_Full



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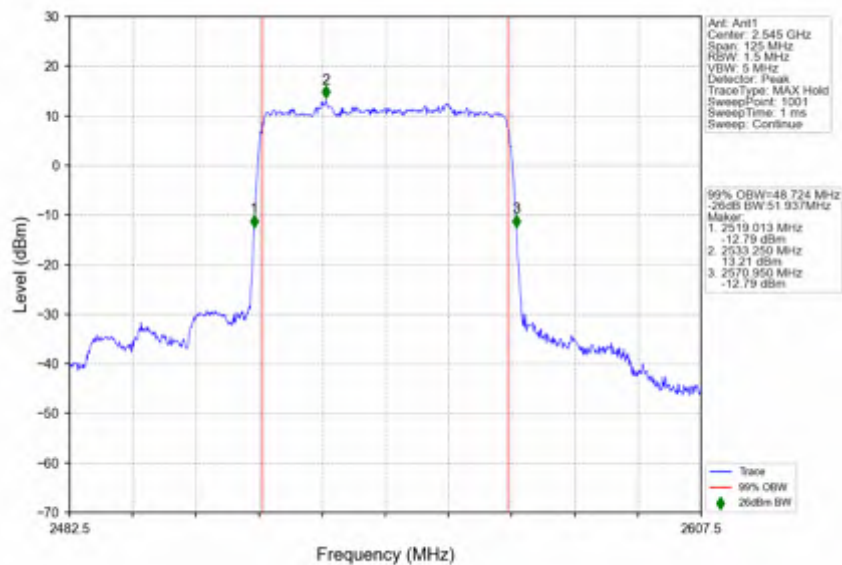
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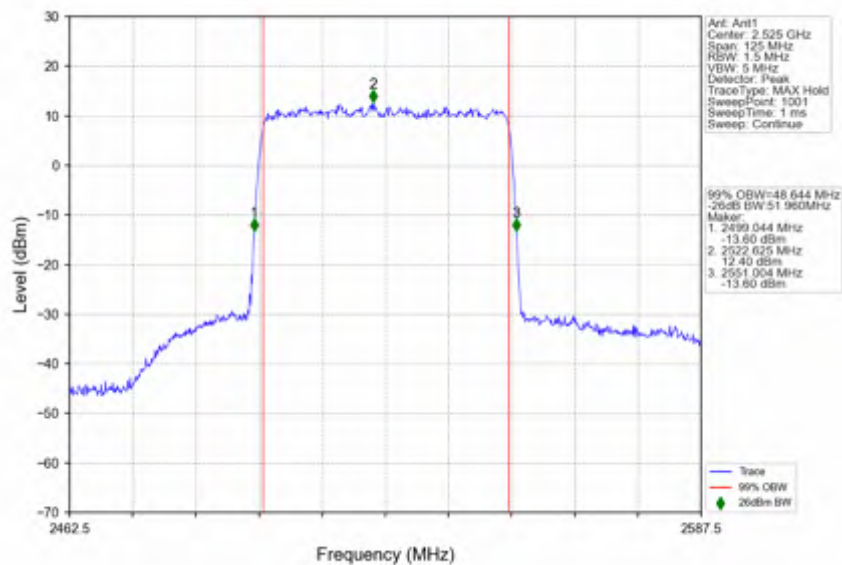
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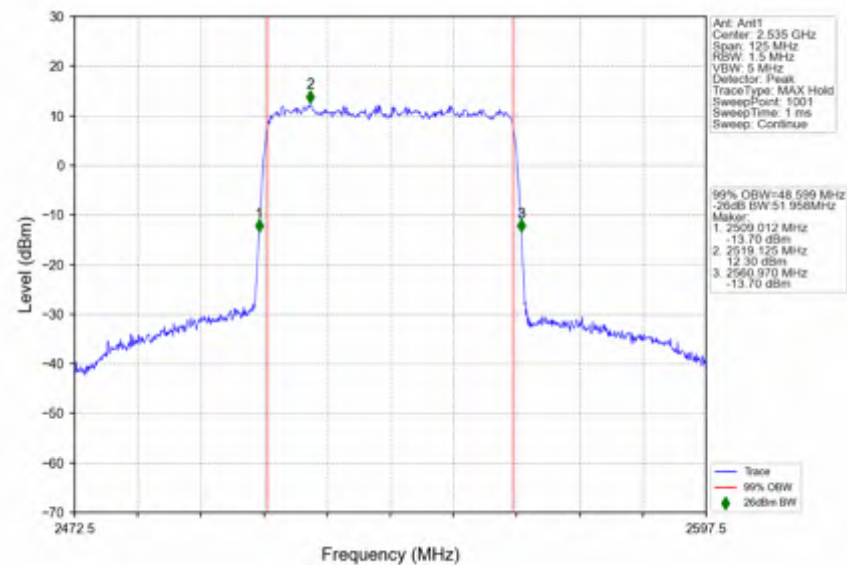
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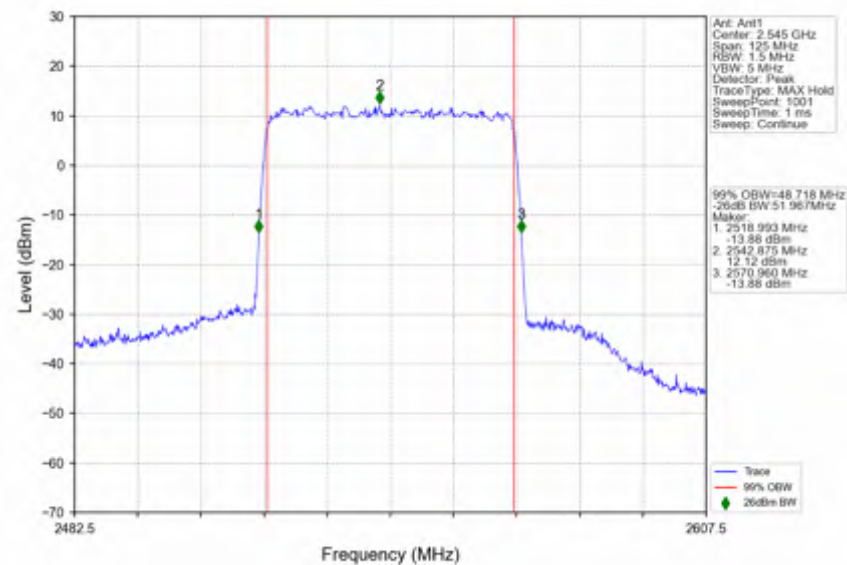
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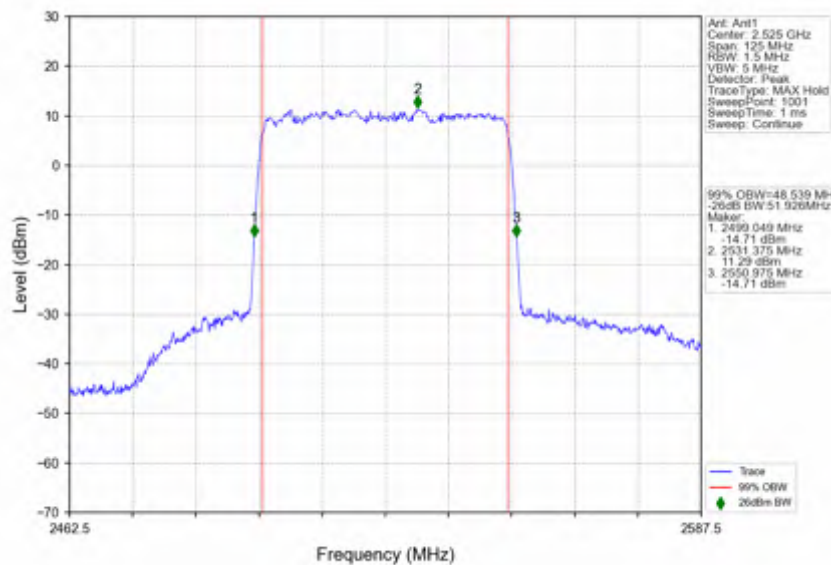
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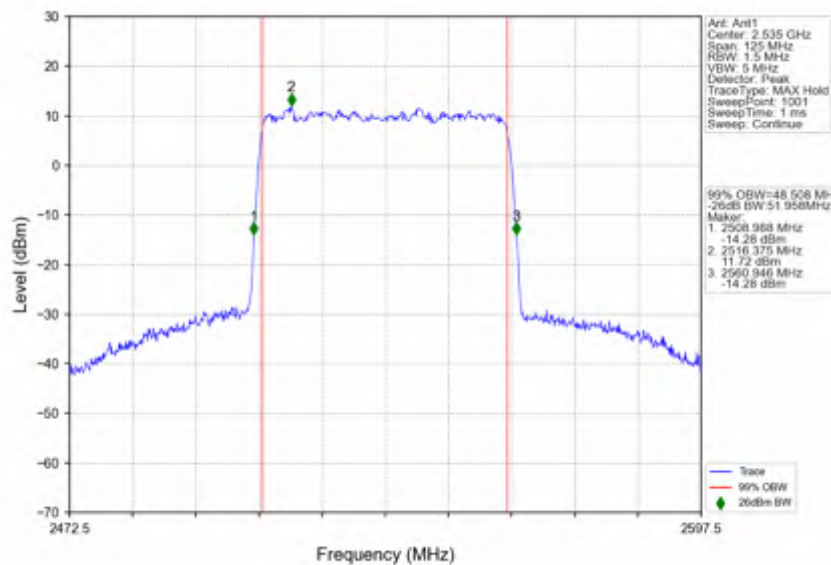
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n7_15kHz_SISO_NTNV_50MHz_DFT-s-OFDM_16_QAM_2525MHz_Outer_Full



n7_15kHz_SISO_NTNV_50MHz_DFT-s-OFDM_16_QAM_2535MHz_Outer_Full



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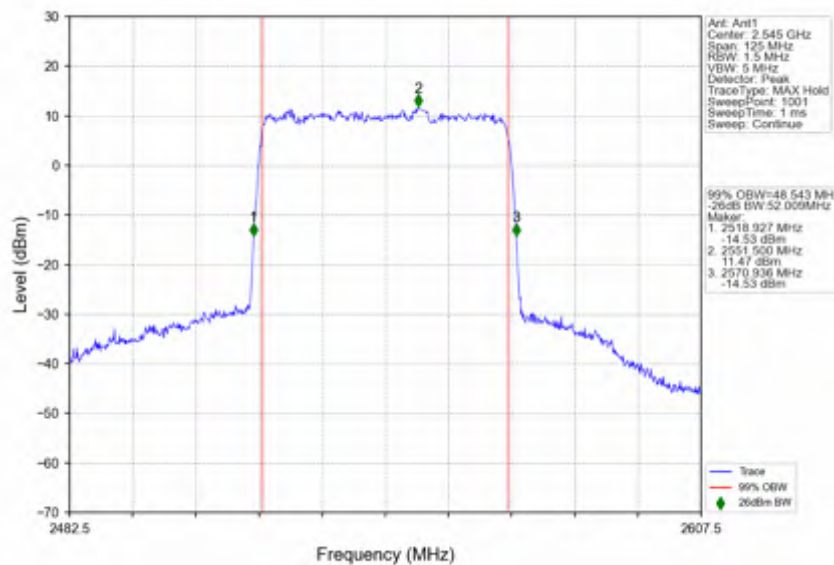
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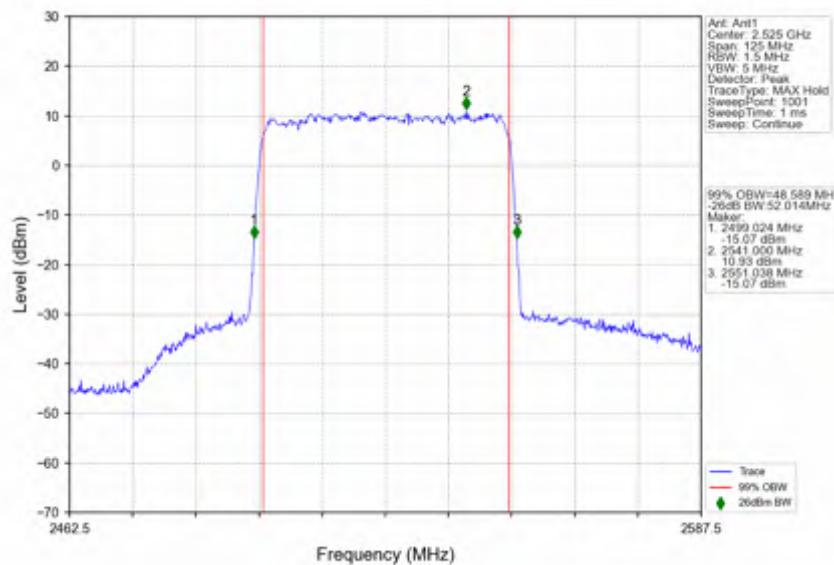
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n7_15kHz_SISO_NTNV_50MHz_DFT-s-OFDM 64 QAM_2525MHz_Outer_Full



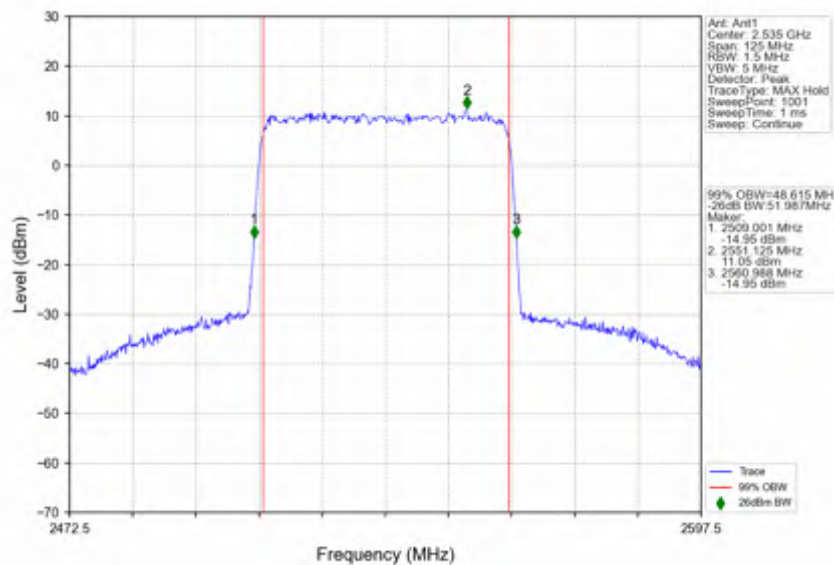
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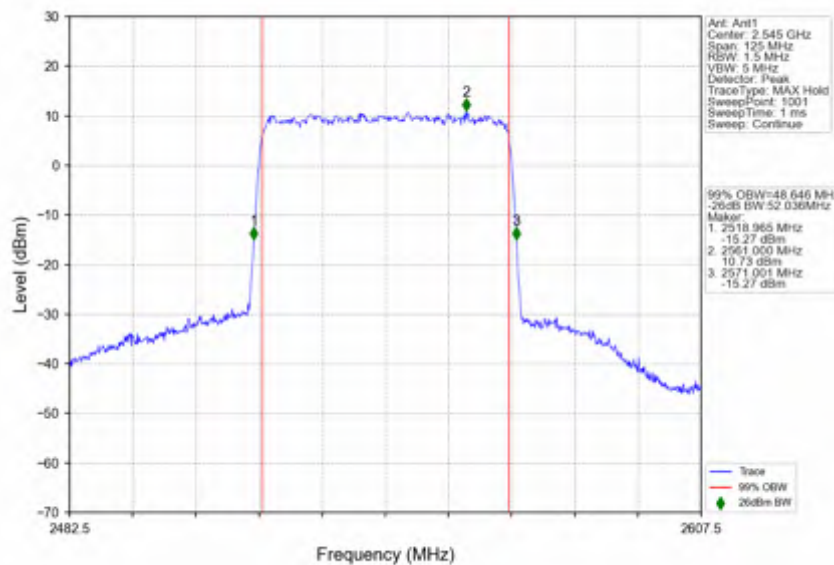
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n7_15kHz_SISO_NTNV_50MHz_DFT-s-OFDM_64_QAM_2535MHz_Outer_Full



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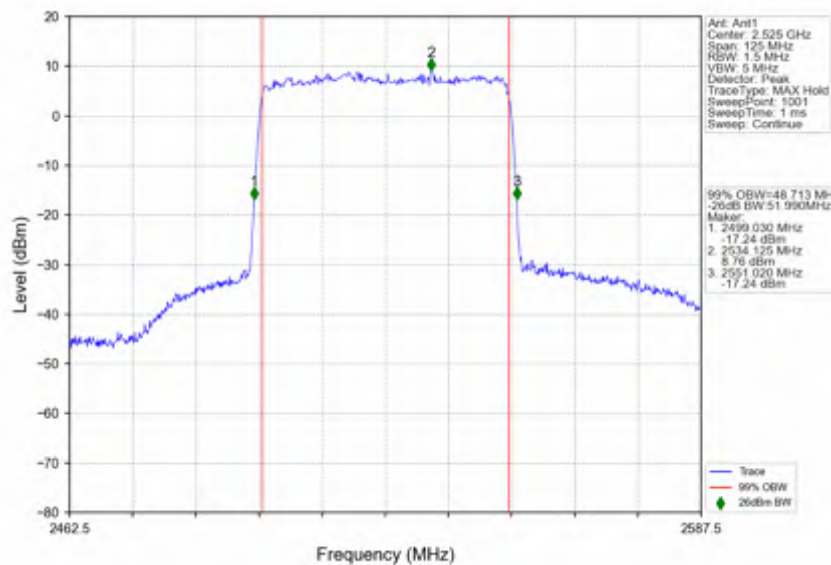
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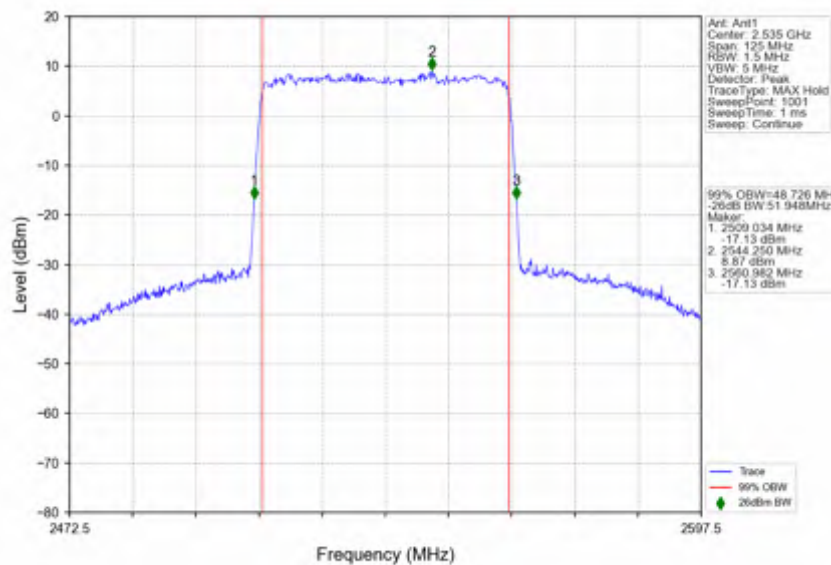
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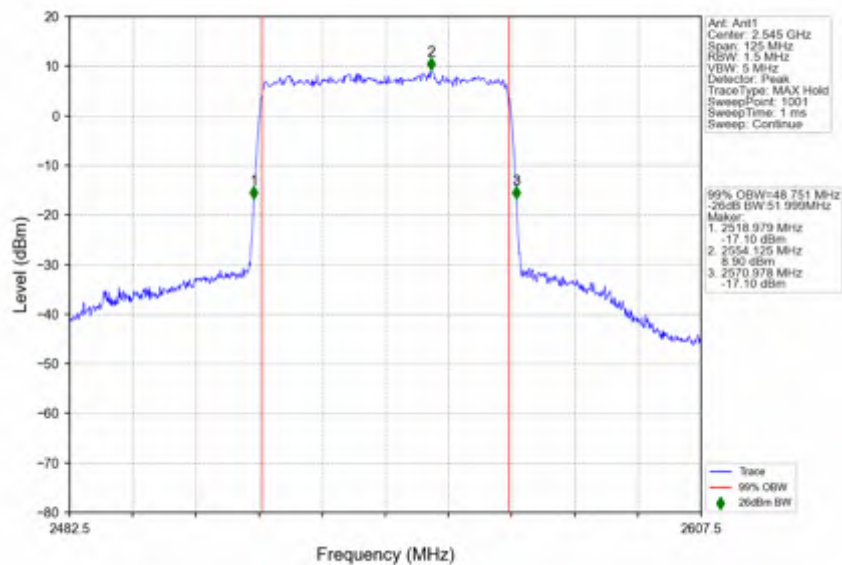
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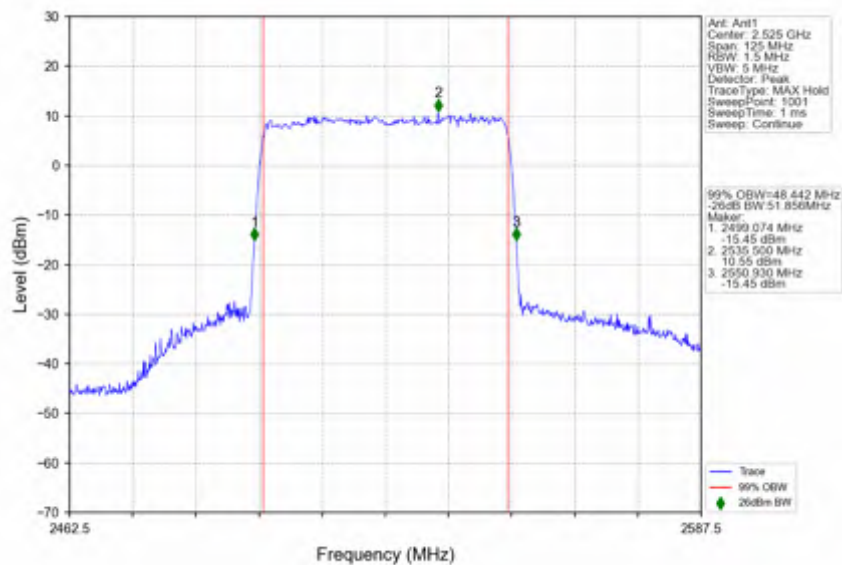
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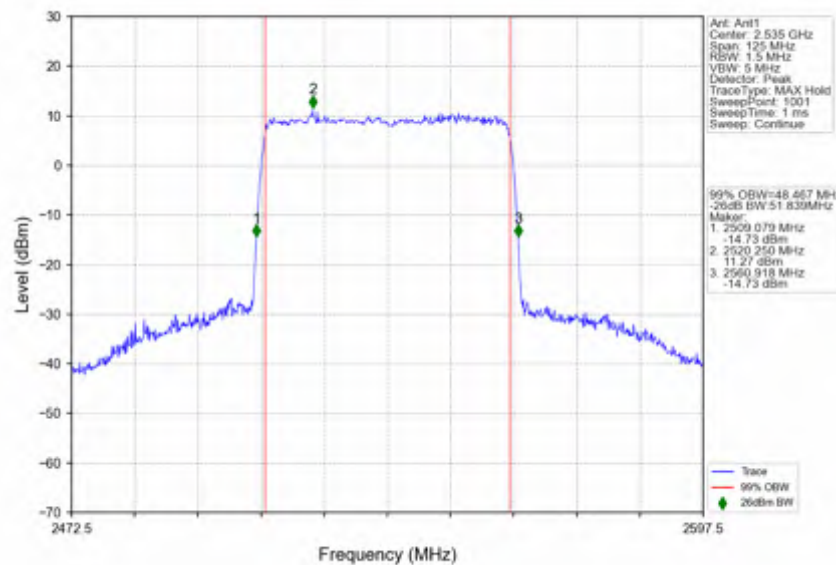
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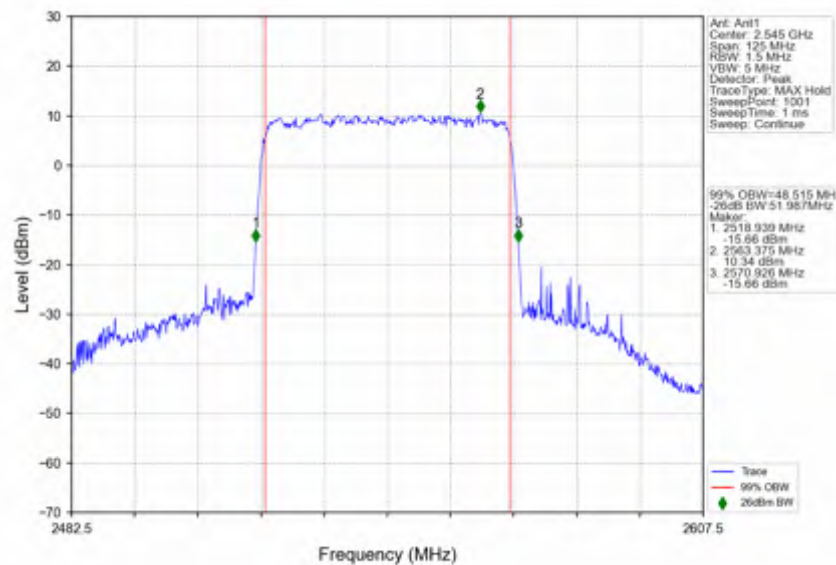
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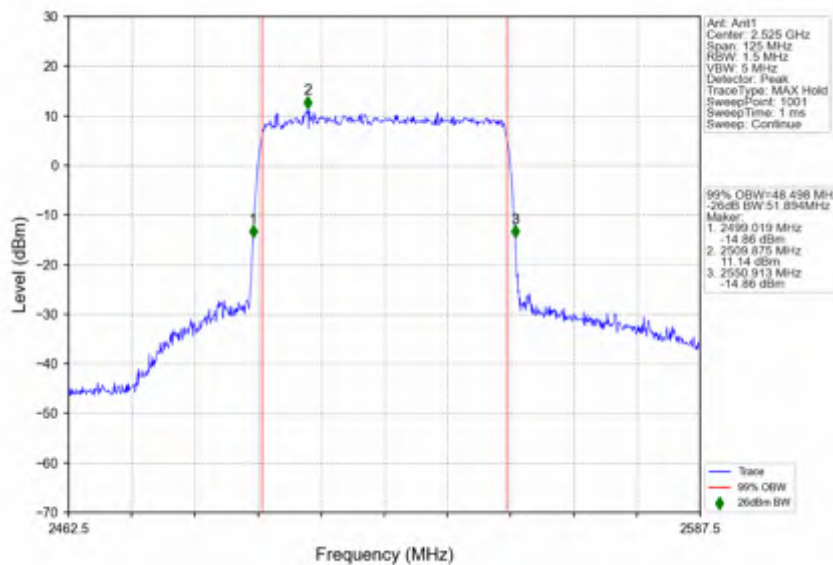
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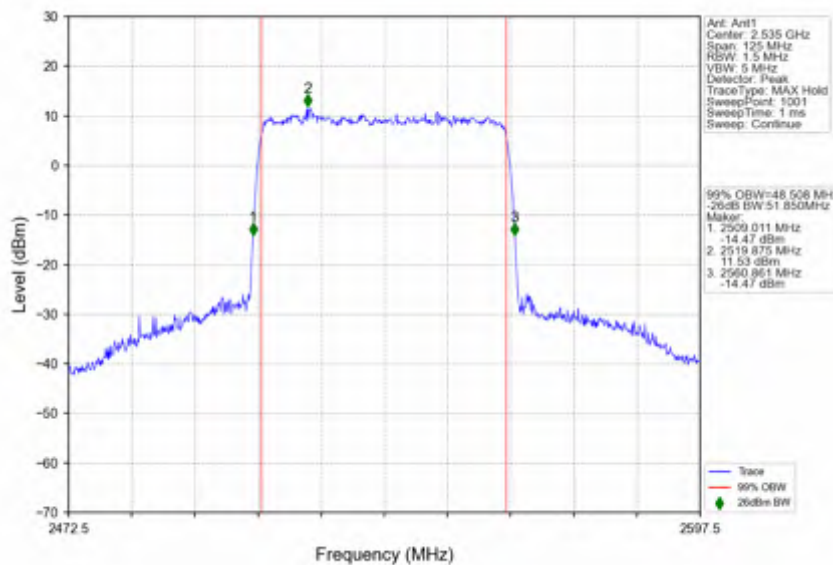
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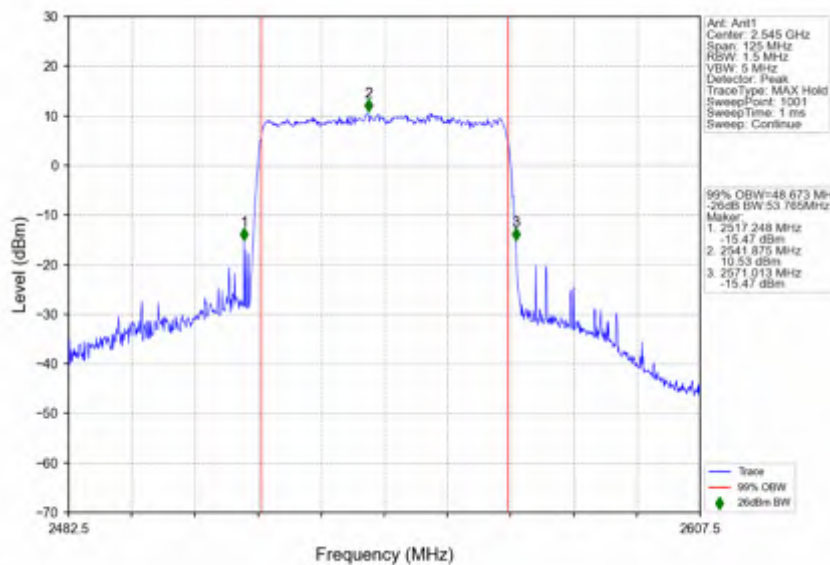
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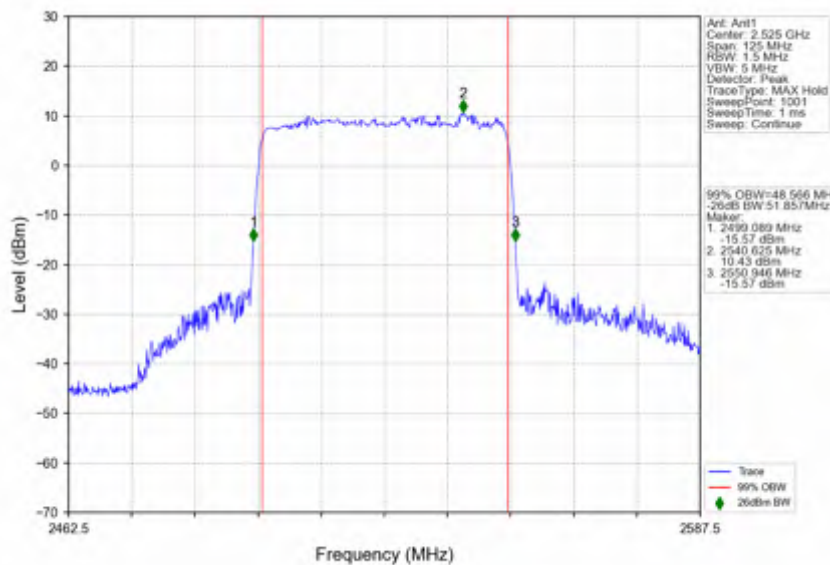
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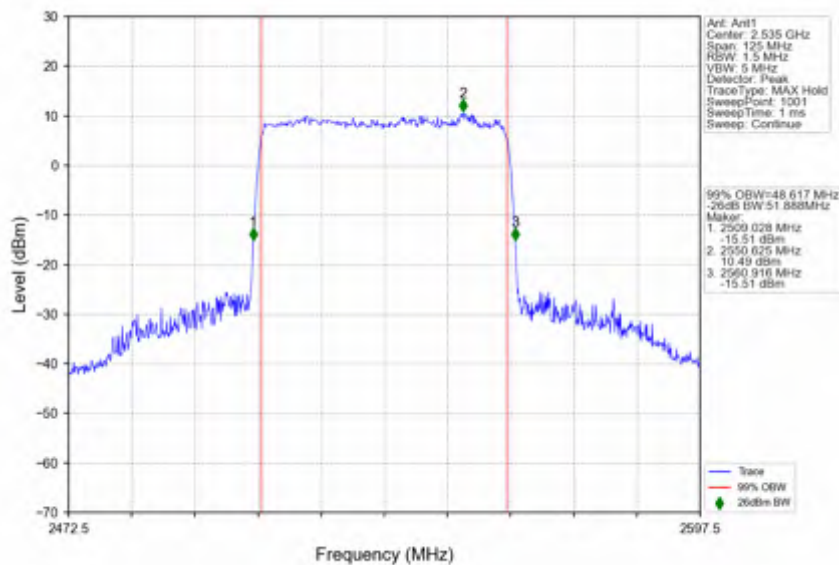
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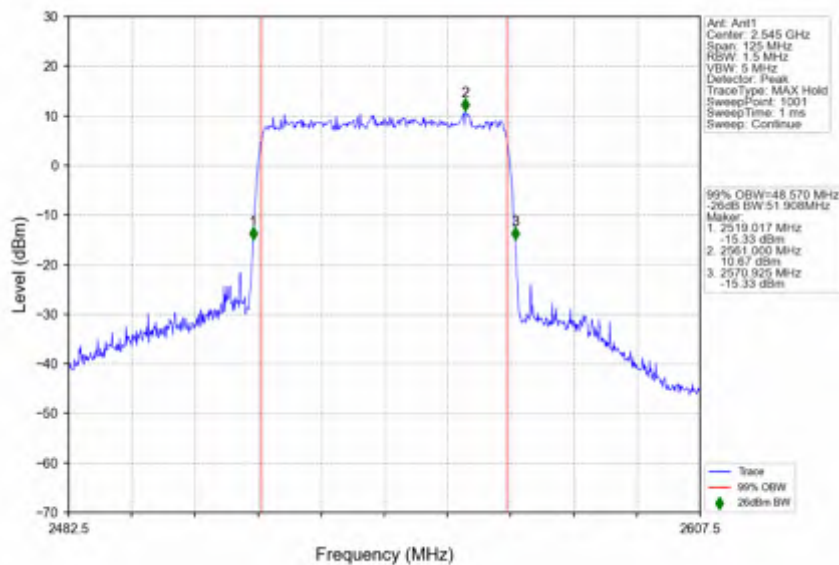
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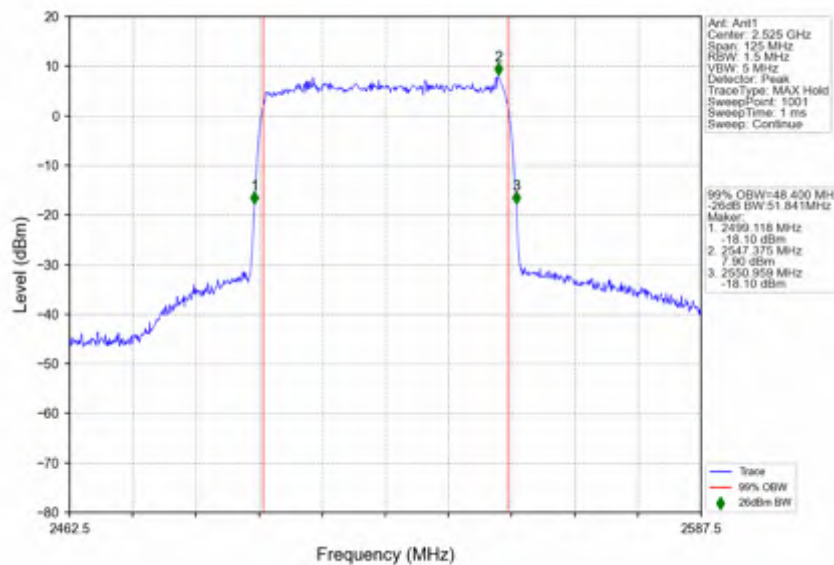
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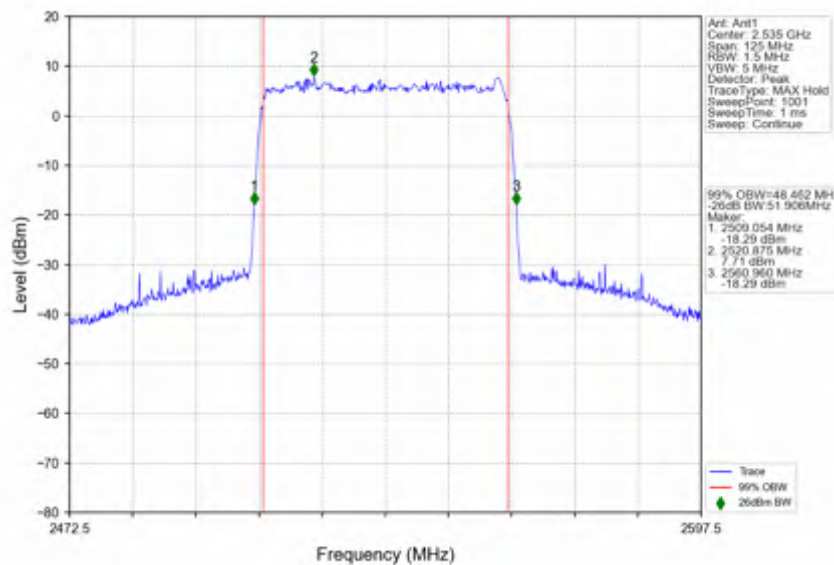
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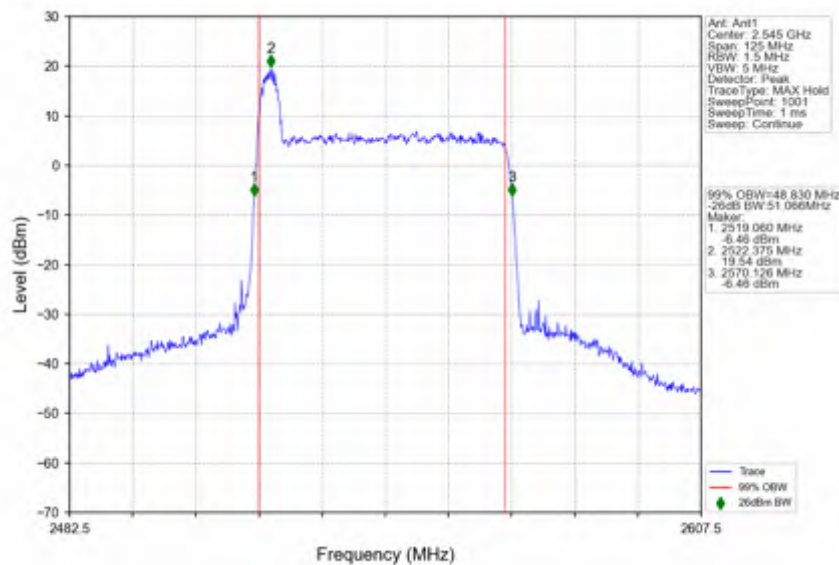
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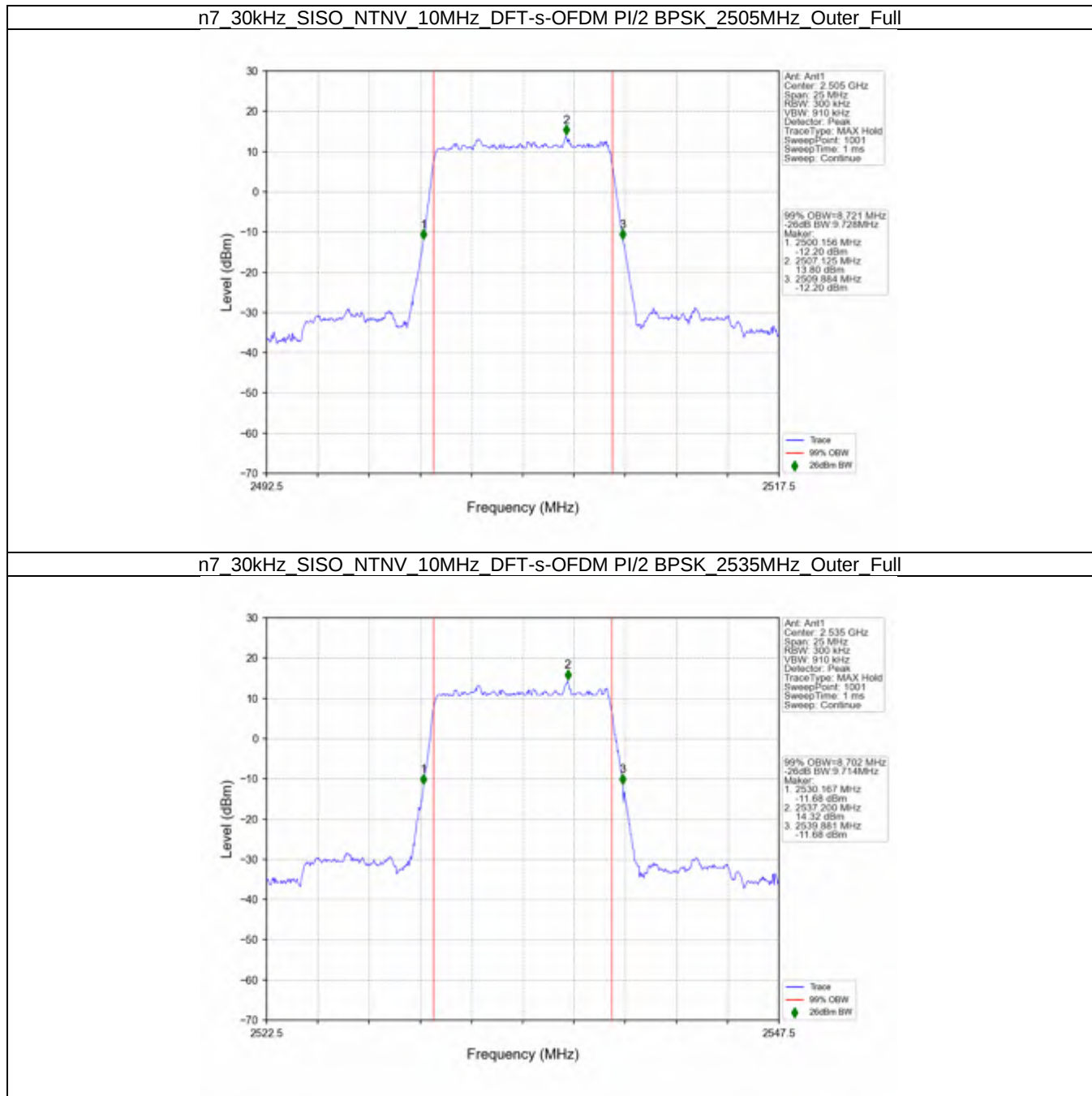
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3.9 30k_SISO_10MHz_NTNV

3.9.1 Test Result

5G NR n7 SCS=30kHz SISO 10MHz NTN						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	2505	Outer_Full	8.72	9.73	/	Pass
	2535	Outer_Full	8.70	9.71	/	Pass
	2565	Outer_Full	8.71	9.67	/	Pass
DFT-s-OFDM QPSK	2505	Outer_Full	8.73	9.93	/	Pass
	2535	Outer_Full	8.71	9.84	/	Pass
	2565	Outer_Full	8.72	9.83	/	Pass
DFT-s-OFDM 16 QAM	2505	Outer_Full	8.75	9.78	/	Pass
	2535	Outer_Full	8.72	9.81	/	Pass
	2565	Outer_Full	8.74	9.87	/	Pass
DFT-s-OFDM 64 QAM	2505	Outer_Full	8.67	9.76	/	Pass
	2535	Outer_Full	8.69	9.74	/	Pass
	2565	Outer_Full	8.70	9.65	/	Pass
DFT-s-OFDM 256 QAM	2505	Outer_Full	8.69	9.80	/	Pass
	2535	Outer_Full	8.72	10.38	/	Pass
	2565	Outer_Full	8.72	11.39	/	Pass
CP-OFDM QPSK	2505	Outer_Full	8.70	9.76	/	Pass
	2535	Outer_Full	8.69	9.72	/	Pass
	2565	Outer_Full	8.69	9.79	/	Pass
CP-OFDM 16 QAM	2505	Outer_Full	8.70	9.80	/	Pass
	2535	Outer_Full	8.69	9.85	/	Pass
	2565	Outer_Full	8.69	9.85	/	Pass
CP-OFDM 64 QAM	2505	Outer_Full	8.67	9.79	/	Pass
	2535	Outer_Full	8.69	9.74	/	Pass
	2565	Outer_Full	8.69	9.76	/	Pass
CP-OFDM 256 QAM	2505	Outer_Full	8.72	9.84	/	Pass
	2535	Outer_Full	8.71	9.74	/	Pass
	2565	Outer_Full	8.70	9.74	/	Pass

3.9.2 Test Graph



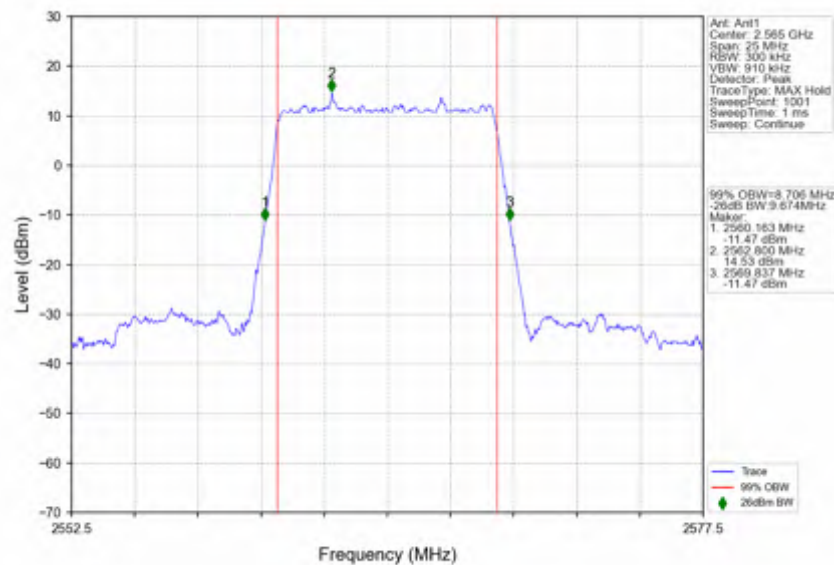
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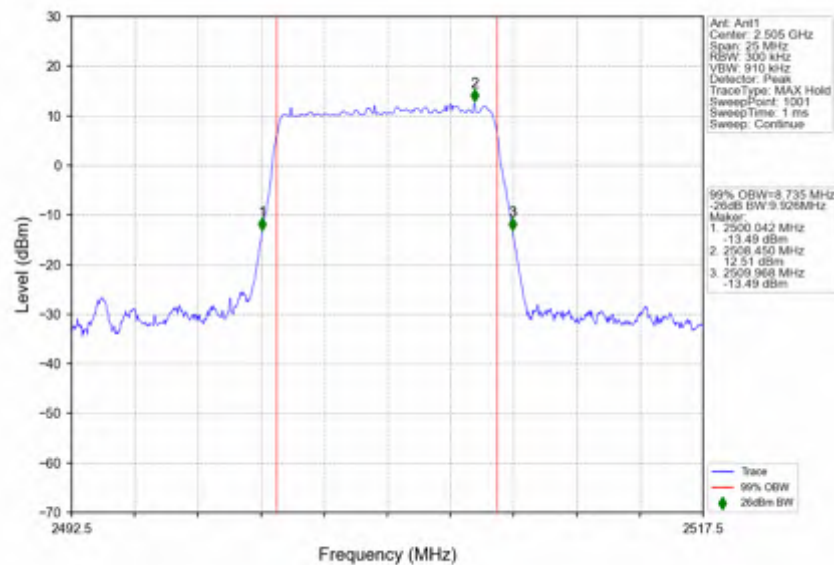
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n7_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM QPSK_2505MHz_Outer_Full



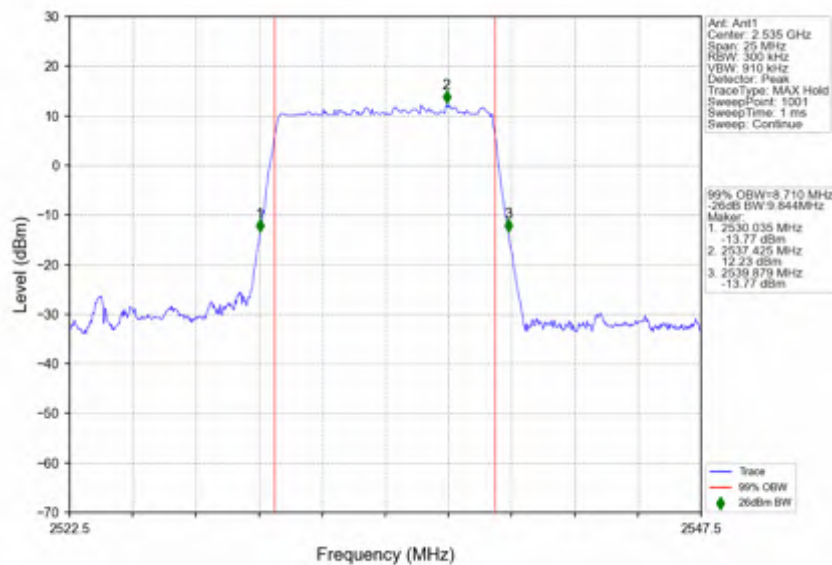
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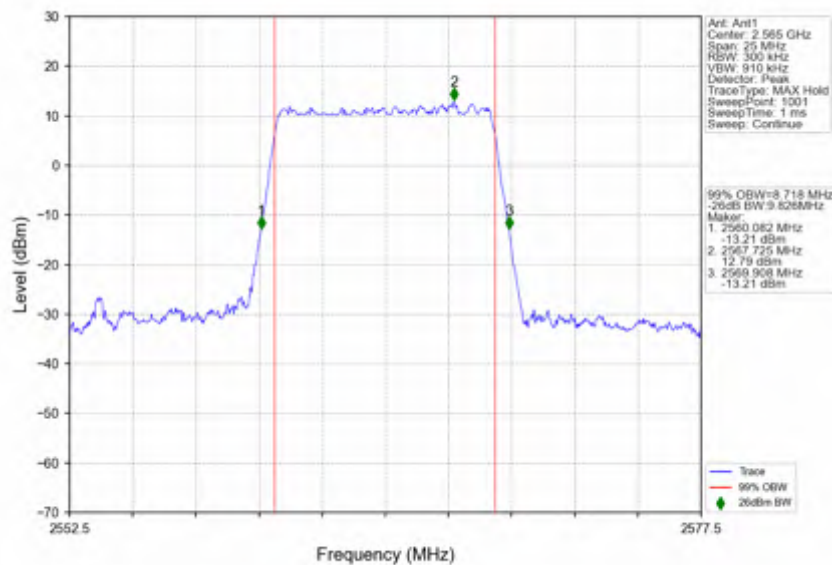
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n7_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM_QPSK_2565MHz_Outer_Full



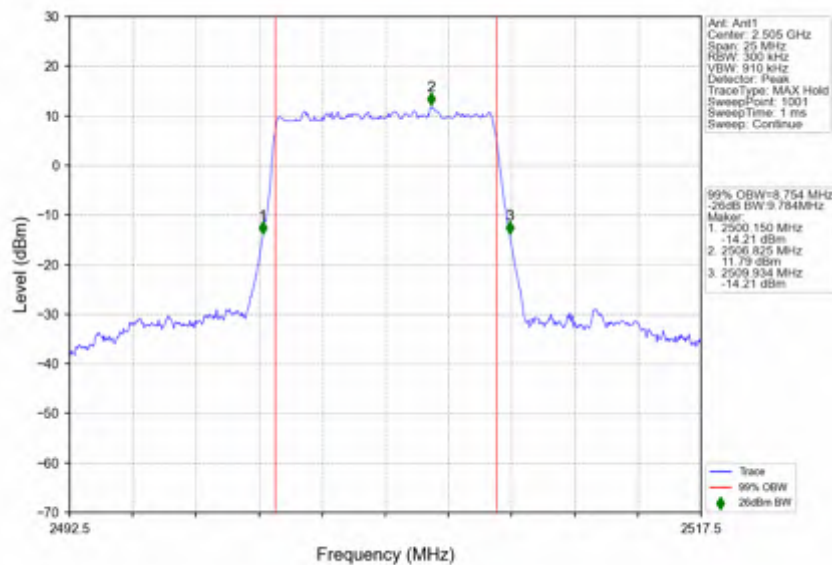
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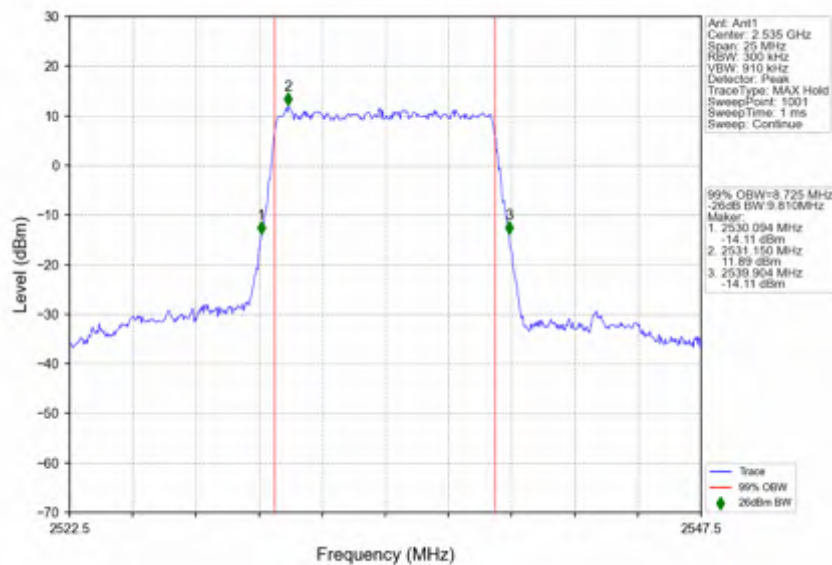
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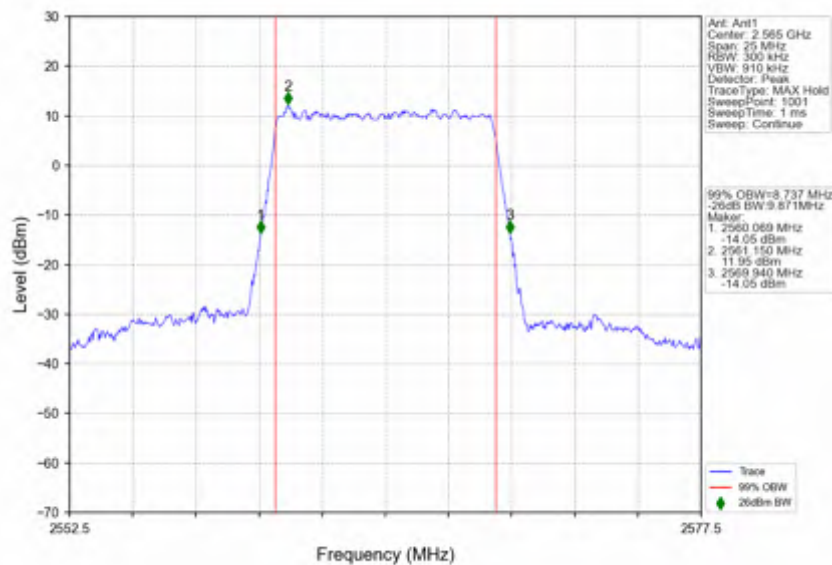
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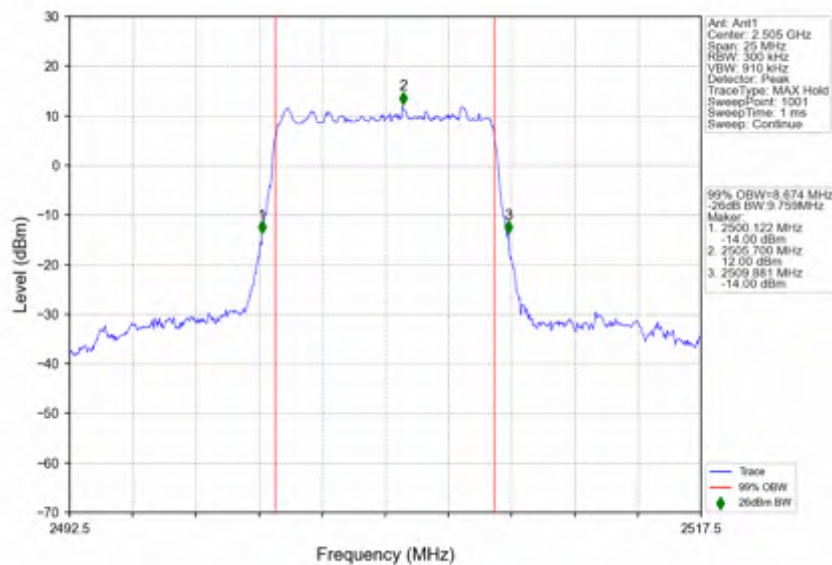
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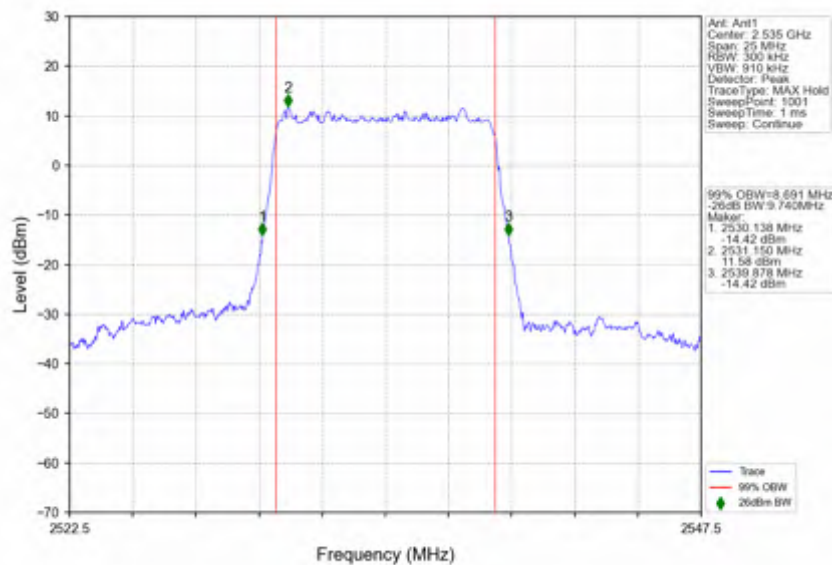
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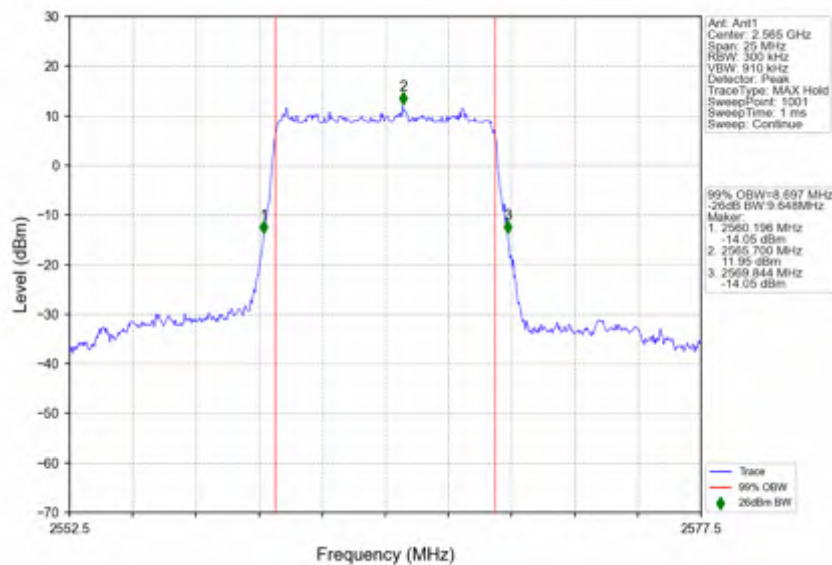
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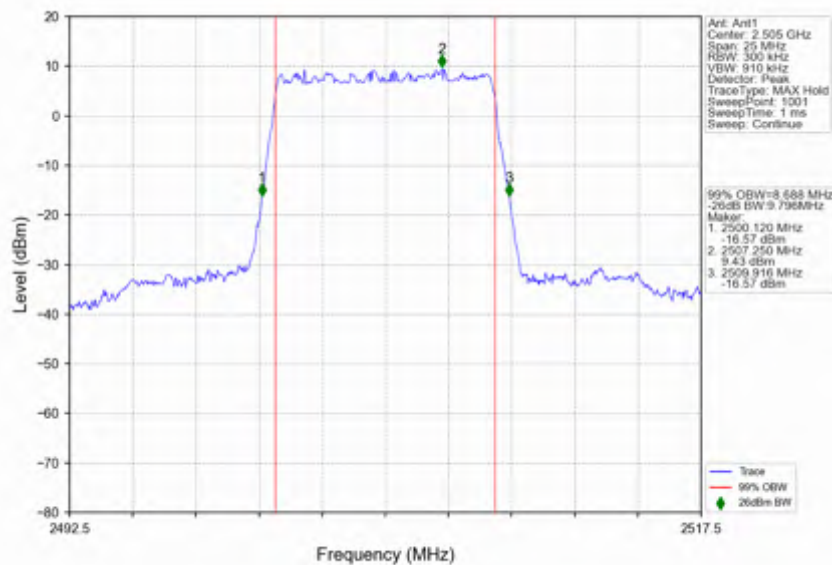
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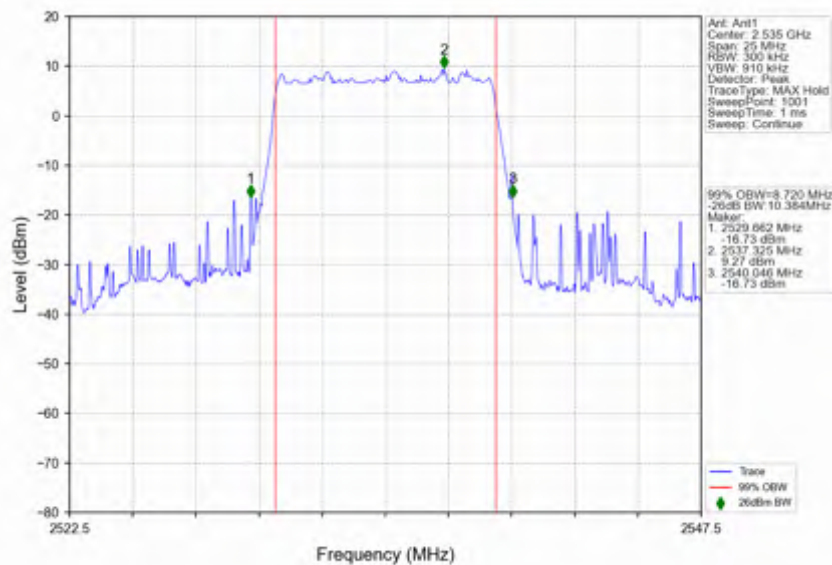
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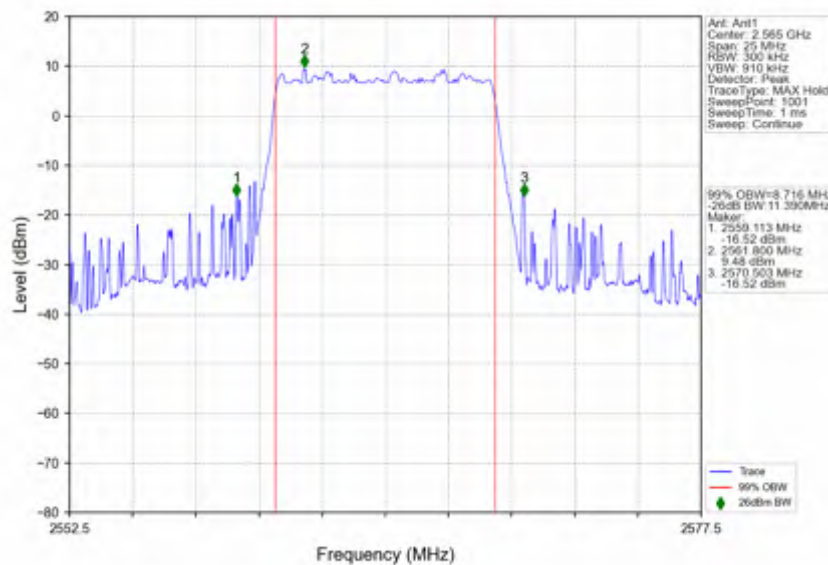


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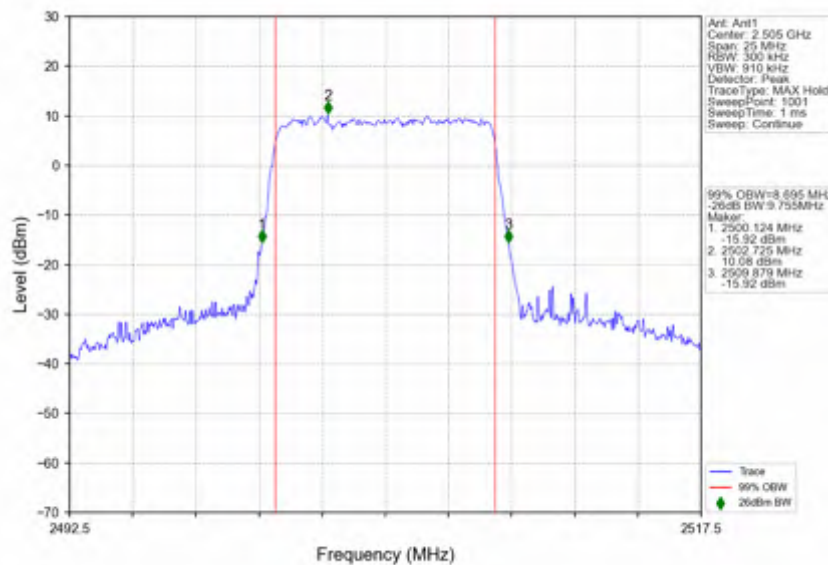
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n7_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM_256 QAM_2565MHz_Outer_Full



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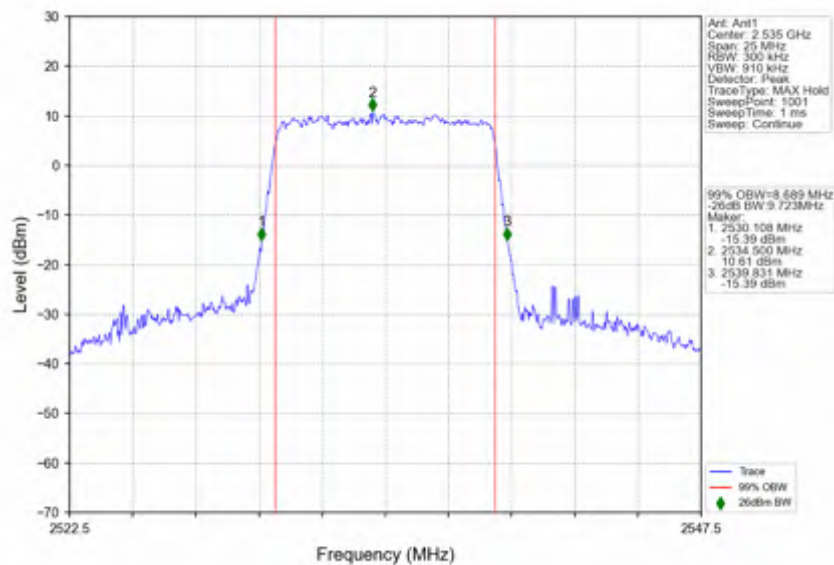
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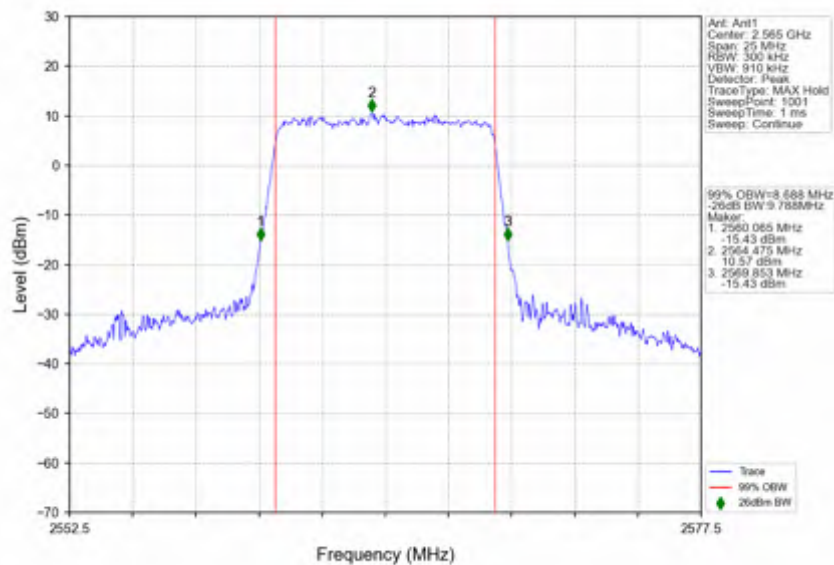
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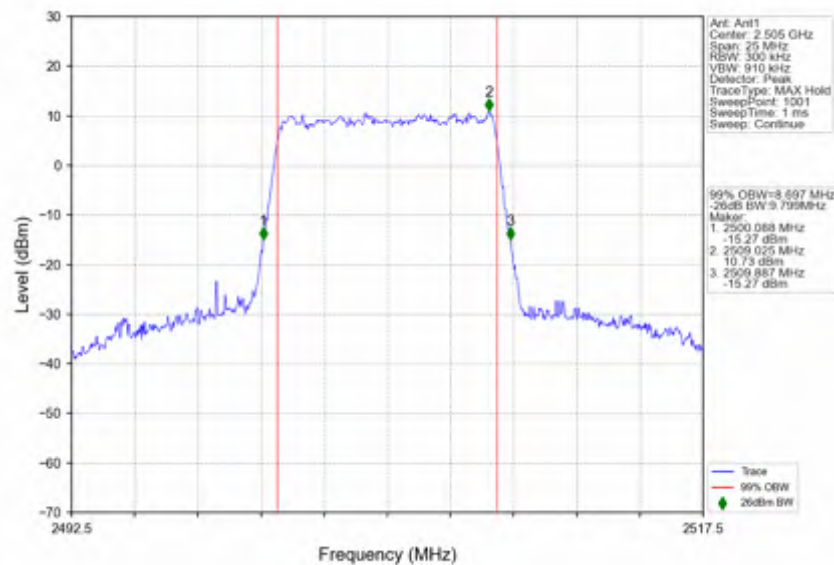
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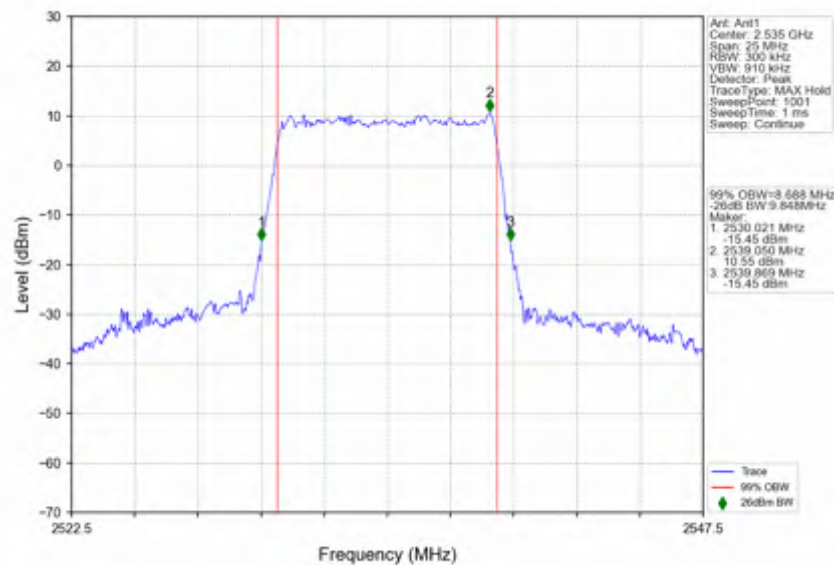
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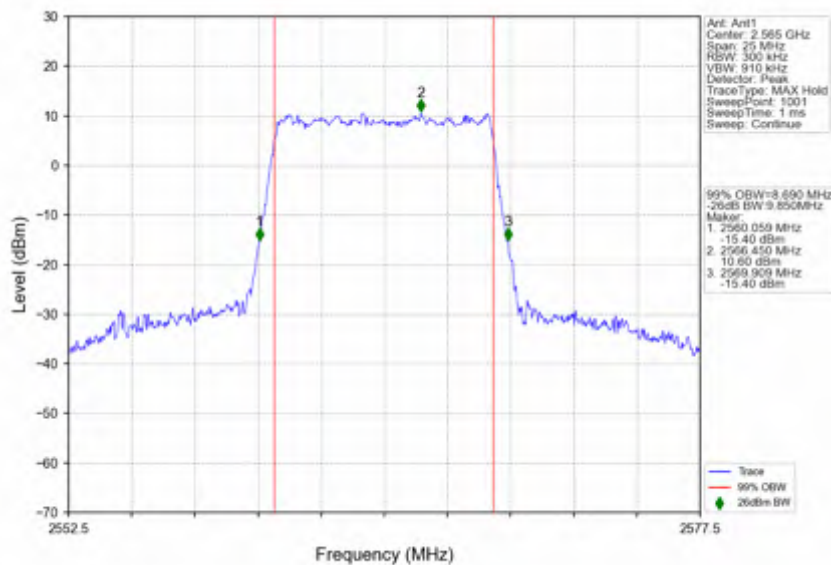
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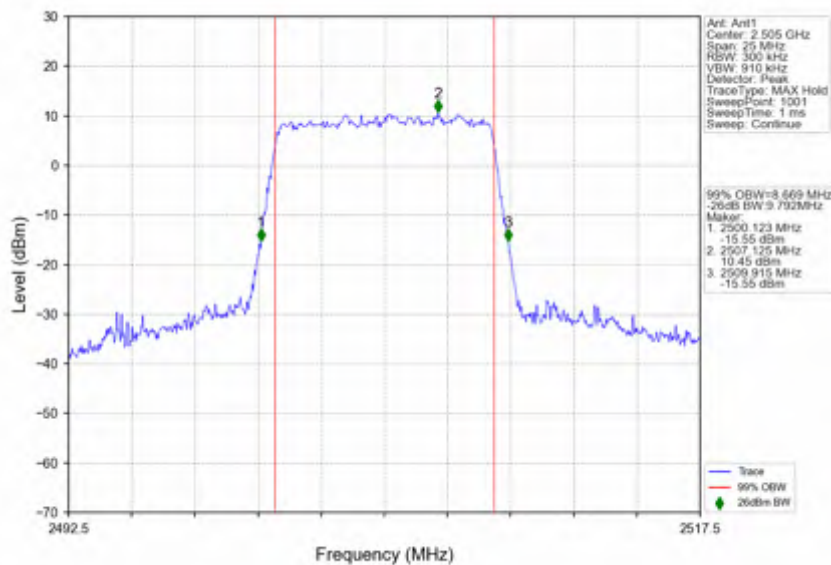
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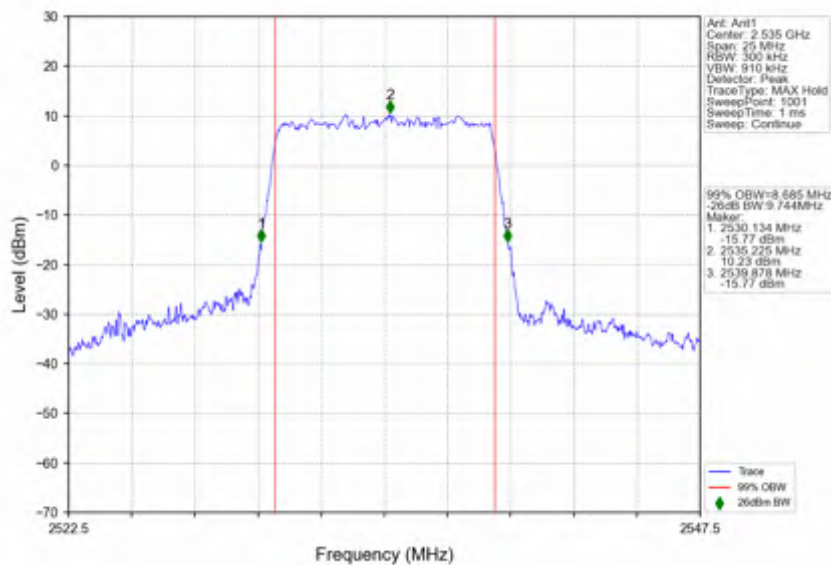
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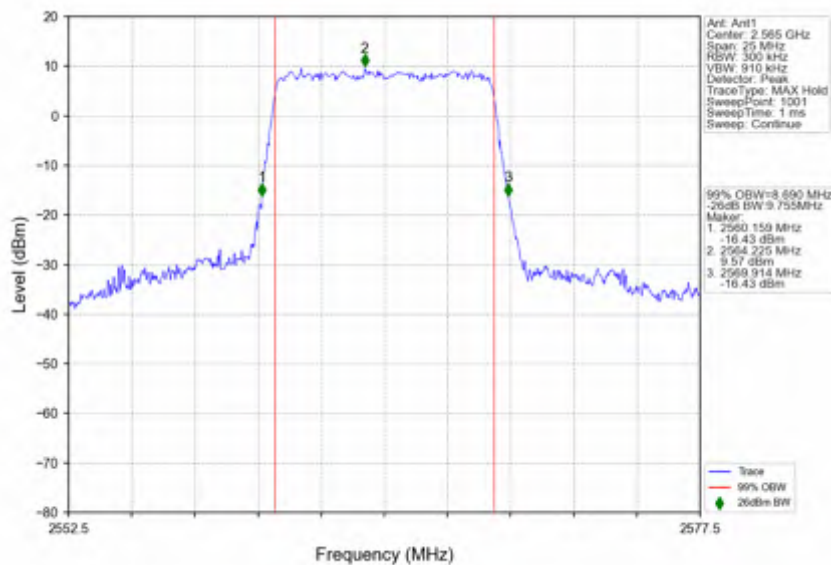
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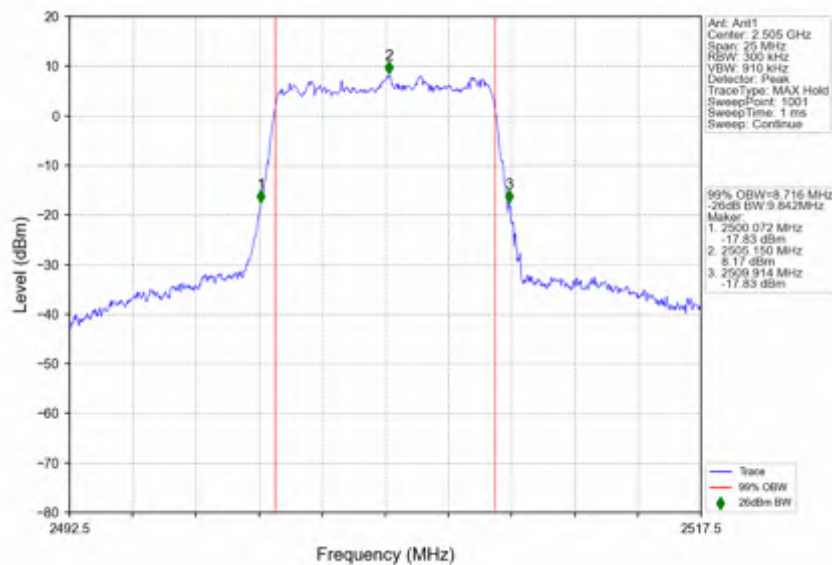
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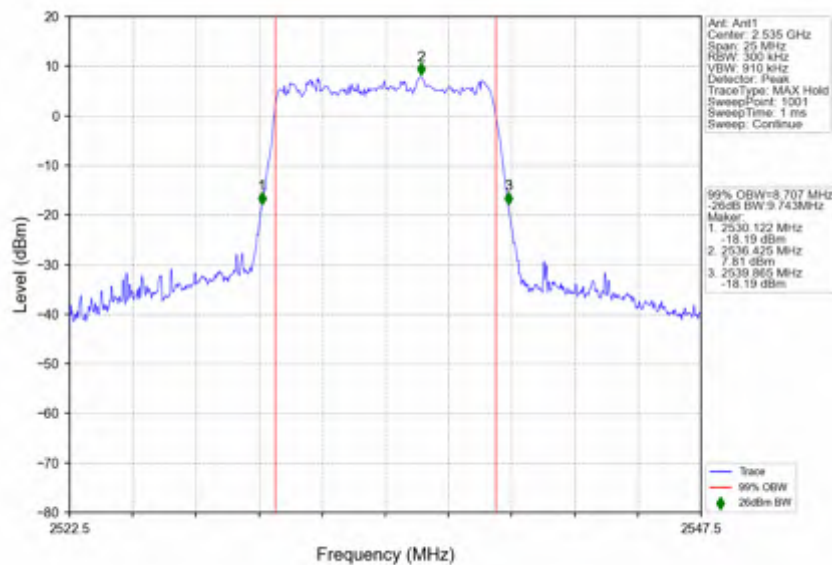
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n7_30kHz_SISO_NTNV_10MHz_CP-OFDM_256_QAM_2505MHz_Outer_Full



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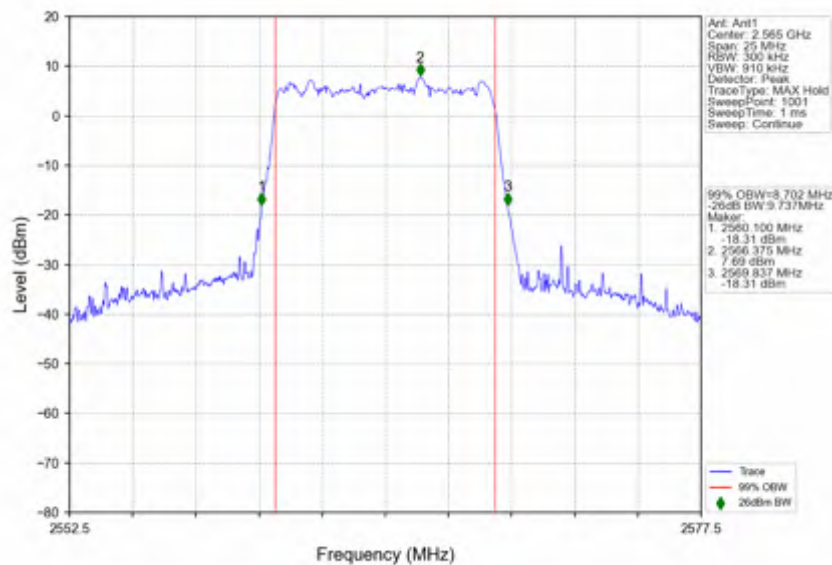
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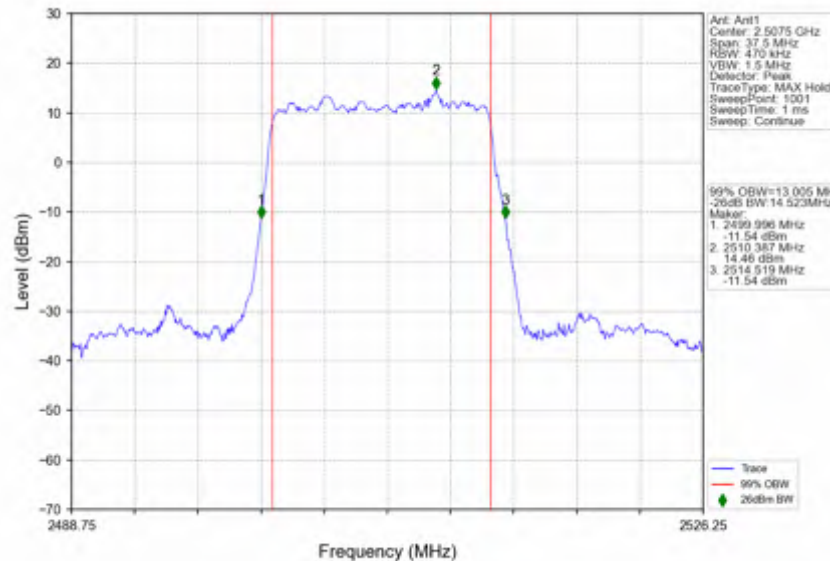
3.10 30k_SISO_15MHz_NTNV

3.10.1 Test Result

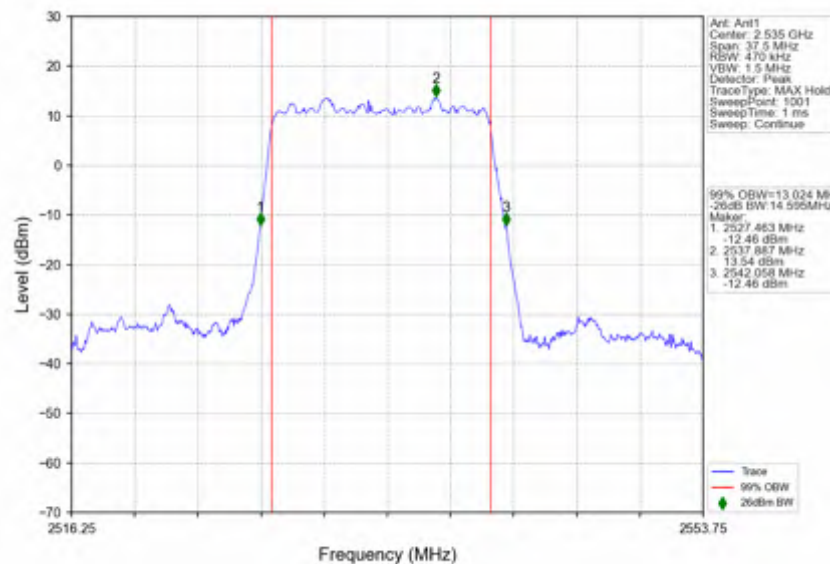
5G NR n7 SCS=30kHz SISO 15MHz NTVN						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	2507.5	Outer_Full	13.01	14.52	/	Pass
	2535	Outer_Full	13.02	14.60	/	Pass
	2562.5	Outer_Full	13.02	14.54	/	Pass
DFT-s-OFDM QPSK	2507.5	Outer_Full	13.10	14.56	/	Pass
	2535	Outer_Full	13.12	14.76	/	Pass
	2562.5	Outer_Full	13.07	14.57	/	Pass
DFT-s-OFDM 16 QAM	2507.5	Outer_Full	13.03	14.55	/	Pass
	2535	Outer_Full	13.08	14.64	/	Pass
	2562.5	Outer_Full	13.10	14.78	/	Pass
DFT-s-OFDM 64 QAM	2507.5	Outer_Full	13.07	14.55	/	Pass
	2535	Outer_Full	13.04	14.47	/	Pass
	2562.5	Outer_Full	13.08	14.54	/	Pass
DFT-s-OFDM 256 QAM	2507.5	Outer_Full	13.05	14.58	/	Pass
	2535	Outer_Full	13.05	14.56	/	Pass
	2562.5	Outer_Full	13.03	14.54	/	Pass
CP-OFDM QPSK	2507.5	Outer_Full	13.73	15.12	/	Pass
	2535	Outer_Full	13.74	15.08	/	Pass
	2562.5	Outer_Full	13.75	15.09	/	Pass
CP-OFDM 16 QAM	2507.5	Outer_Full	13.66	14.99	/	Pass
	2535	Outer_Full	13.72	15.20	/	Pass
	2562.5	Outer_Full	13.68	15.12	/	Pass
CP-OFDM 64 QAM	2507.5	Outer_Full	13.75	15.19	/	Pass
	2535	Outer_Full	13.76	15.29	/	Pass
	2562.5	Outer_Full	13.76	15.17	/	Pass
CP-OFDM 256 QAM	2507.5	Outer_Full	13.71	15.15	/	Pass
	2535	Outer_Full	13.73	15.25	/	Pass
	2562.5	Outer_Full	13.73	15.16	/	Pass

3.10.2 Test Graph

n7_30kHz_SISO_NTNV_15MHz_DFT-s-OFDM_PI/2_BPSK_2507.5MHz_Outer_Full



n7_30kHz_SISO_NTNV_15MHz_DFT-s-OFDM_PI/2_BPSK_2535MHz_Outer_Full



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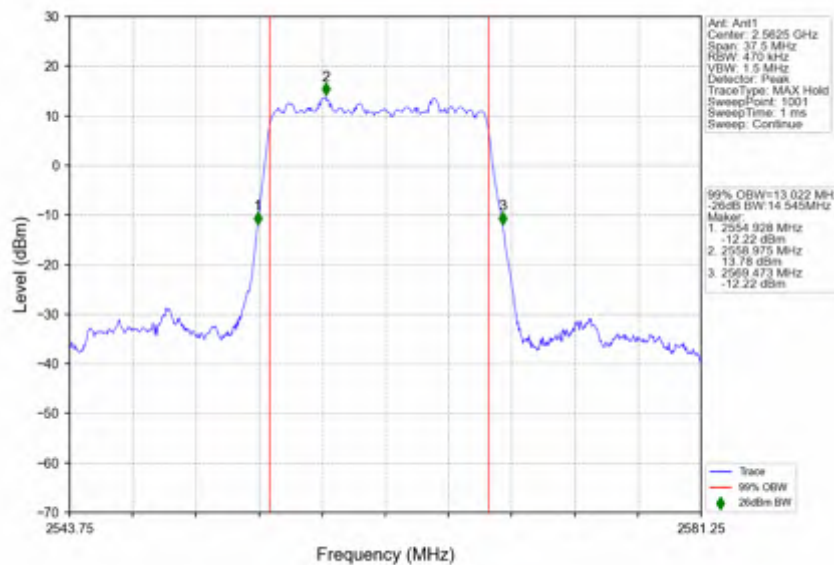
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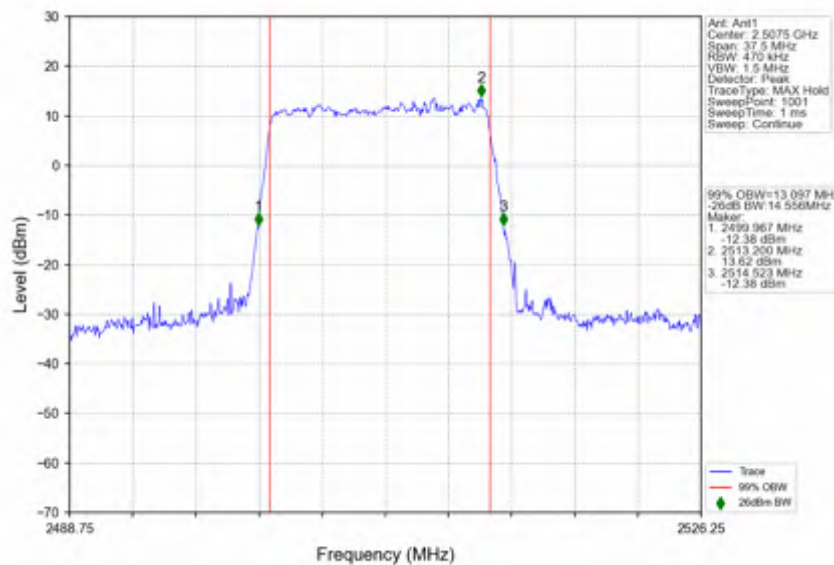
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n7_30kHz_SISO_NTNV_15MHz_DFT-s-OFDM PI/2 BPSK_2562.5MHz_Outer_Full



n7_30kHz_SISO_NTNV_15MHz_DFT-s-OFDM QPSK_2507.5MHz_Outer_Full



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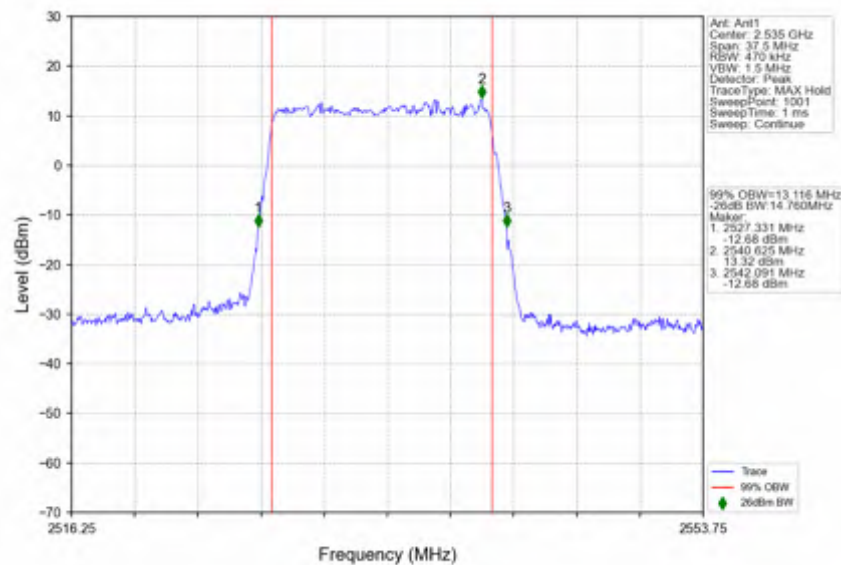
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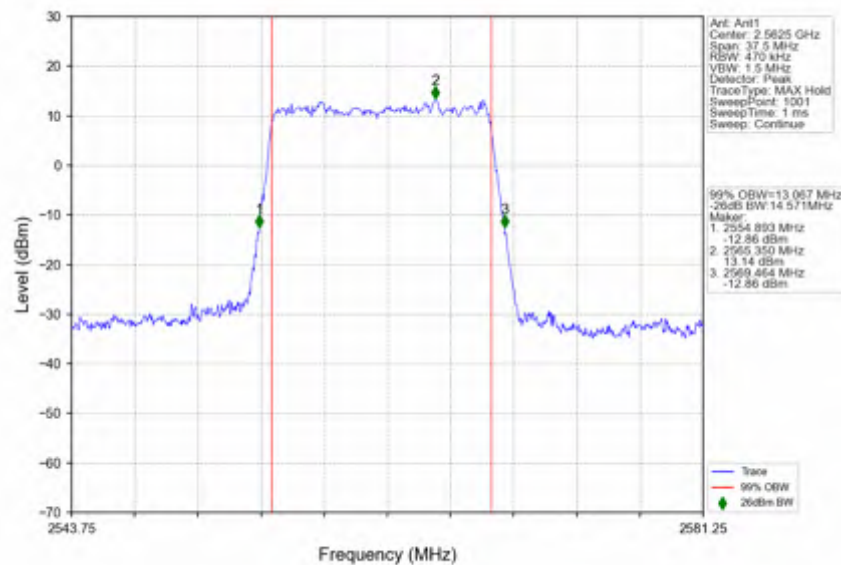
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n7_30kHz_SISO_NTNV_15MHz_DFT-s-OFDM_QPSK_2535MHz_Outer_Full



n7_30kHz_SISO_NTNV_15MHz_DFT-s-OFDM_QPSK_2562.5MHz_Outer_Full



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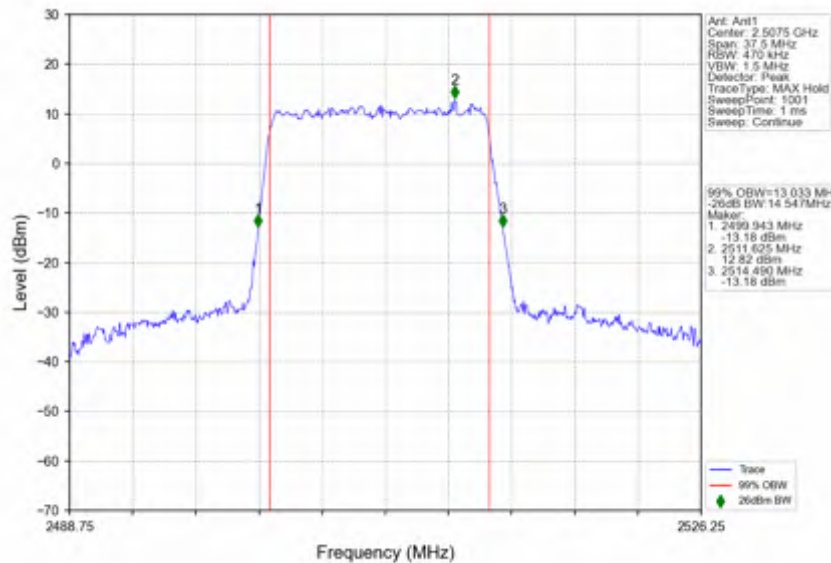
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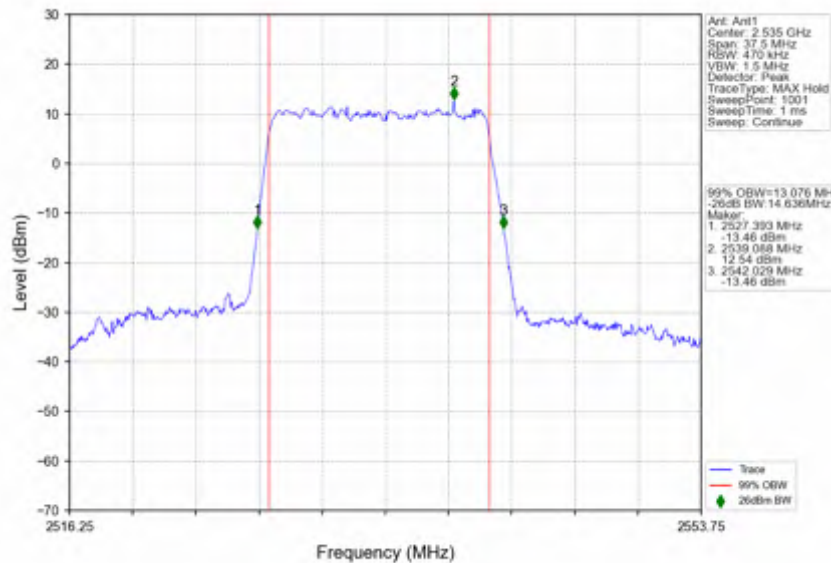
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n7_30kHz_SISO_NTNV_15MHz_DFT-s-OFDM_16_QAM_2507.5MHz_Outer_Full



n7_30kHz_SISO_NTNV_15MHz_DFT-s-OFDM_16_QAM_2535MHz_Outer_Full



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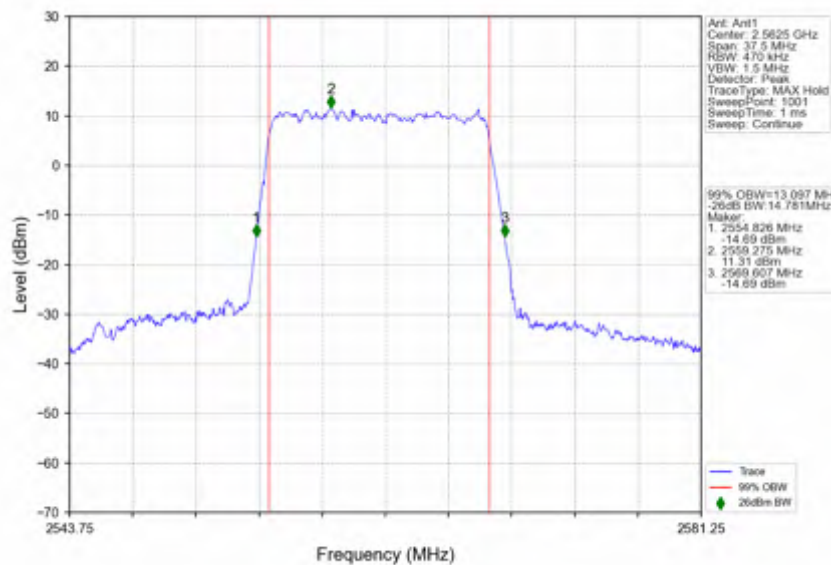
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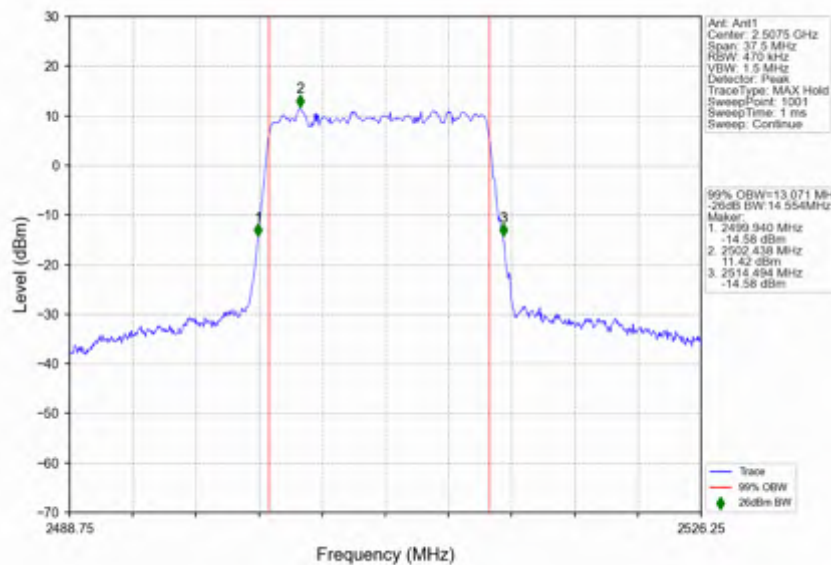
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n7_30kHz_SISO_NTNV_15MHz_DFT-s-OFDM_64_QAM_2507.5MHz_Outer_Full

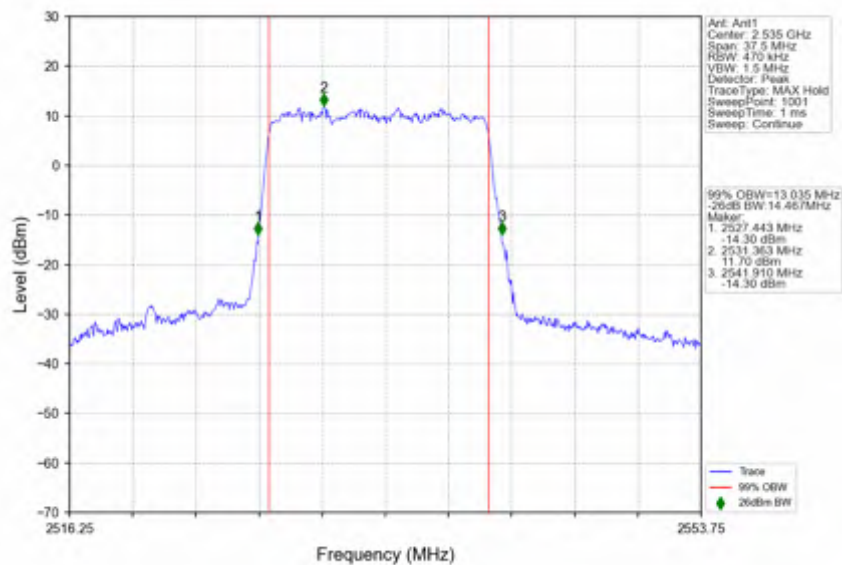


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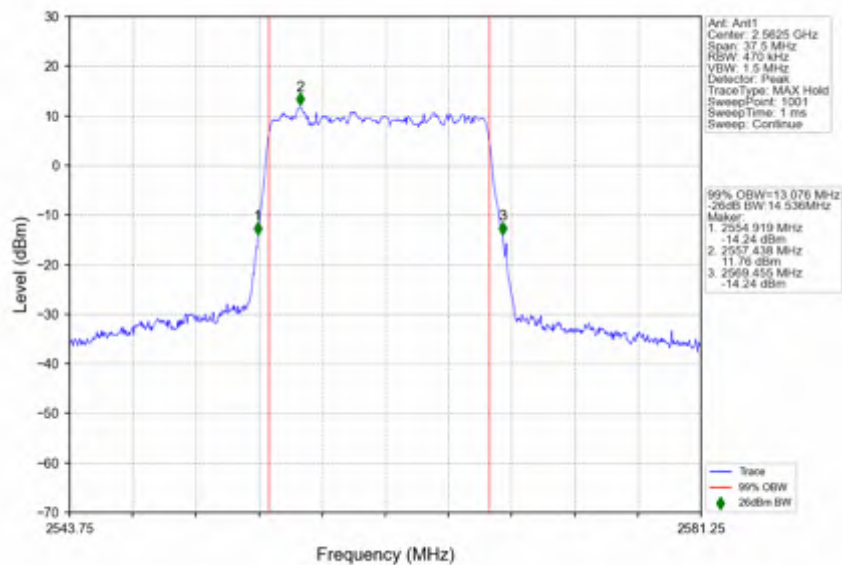
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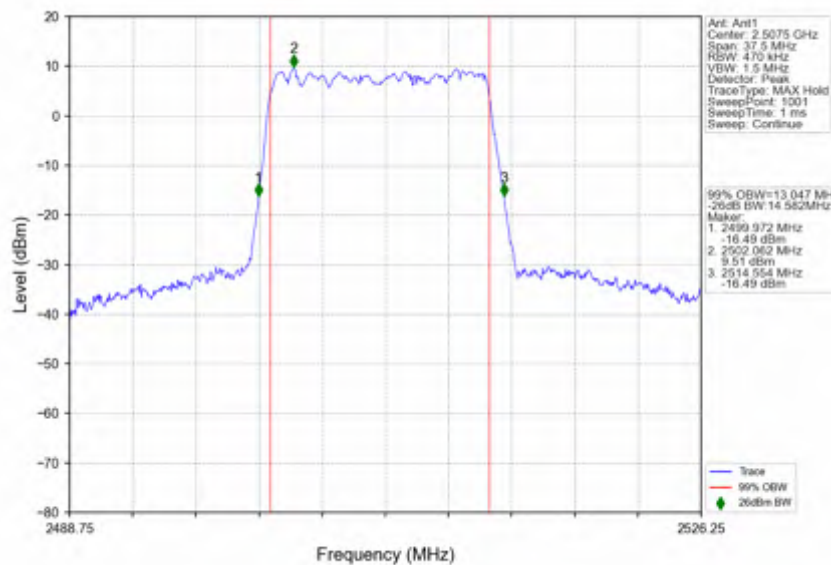


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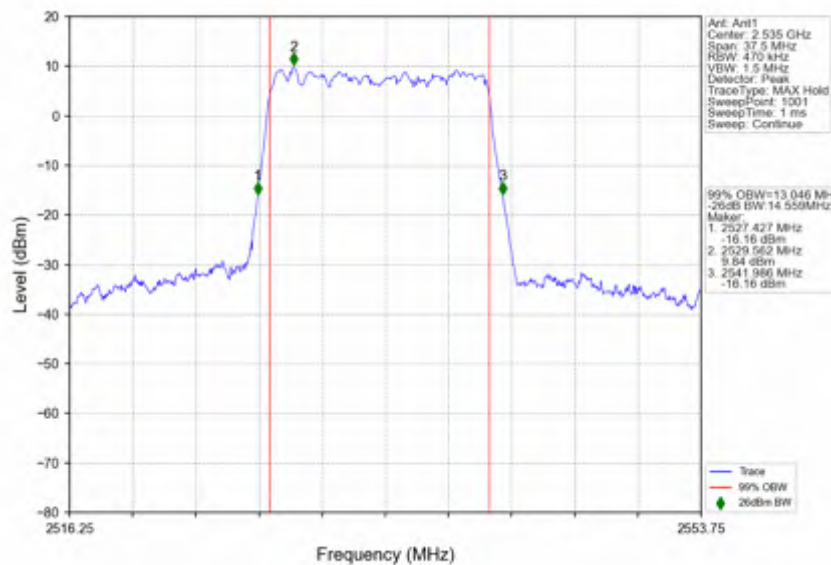
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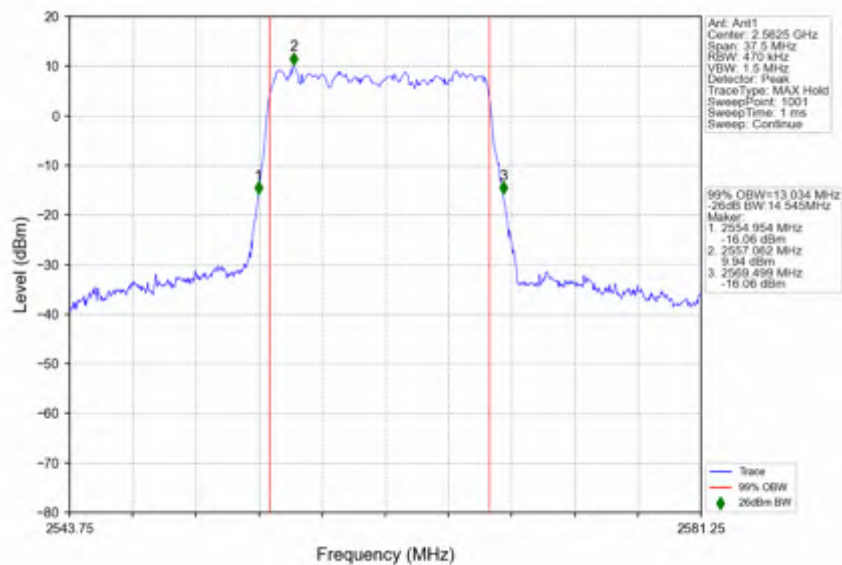
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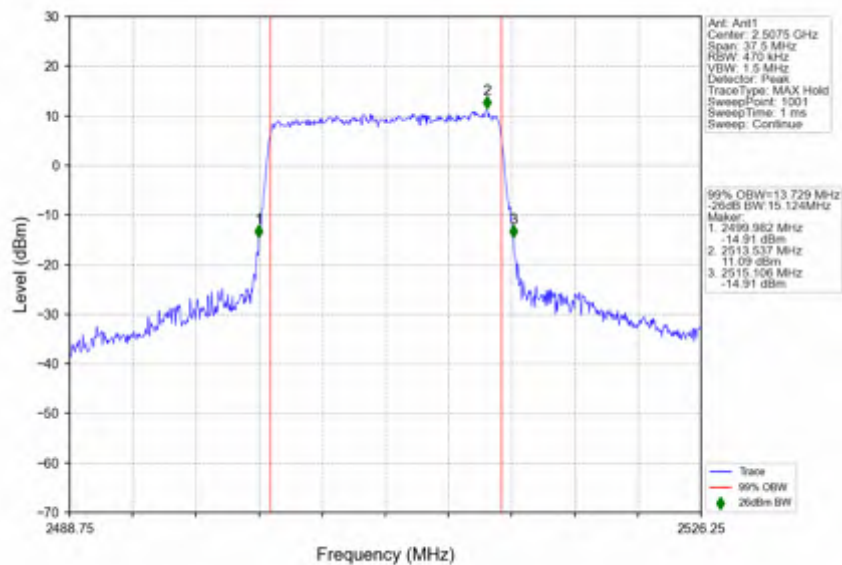
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n7_30kHz_SISO_NTNV_15MHz_CP-OFDM_QPSK_2507.5MHz_Outer_Full

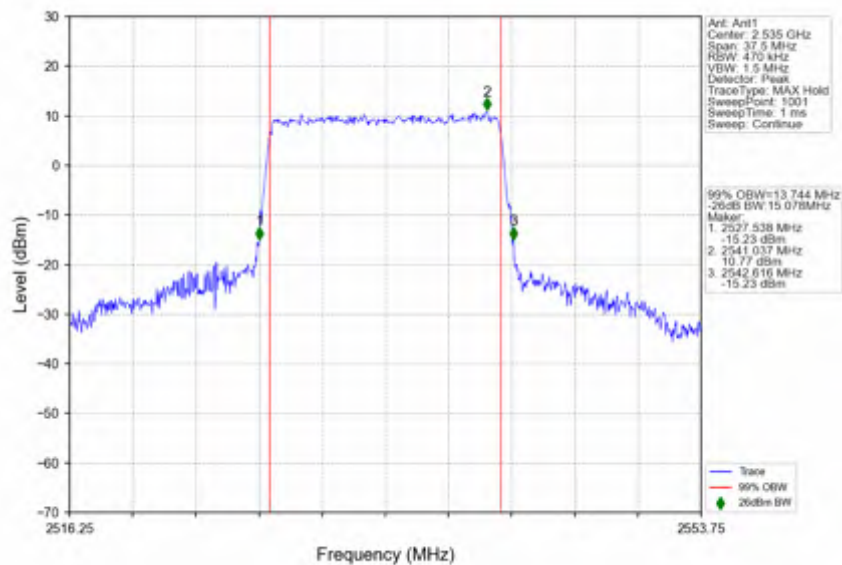


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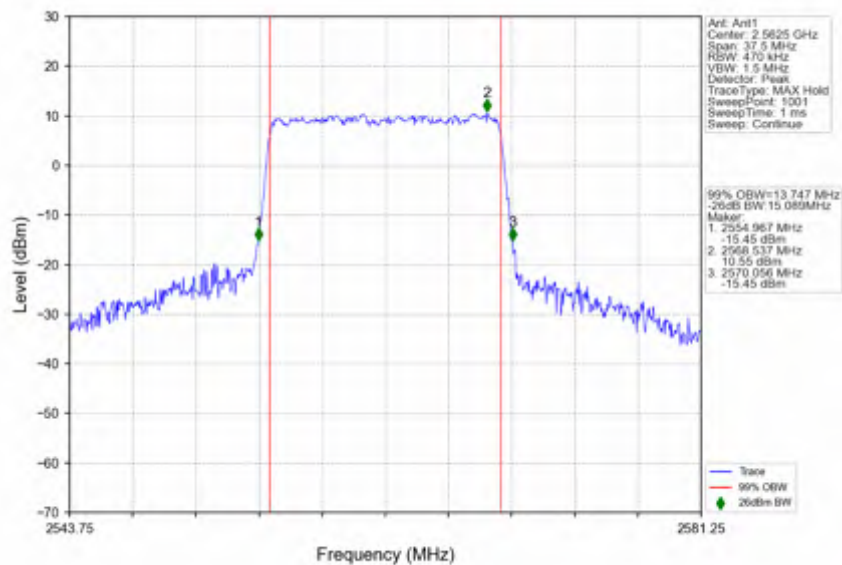
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n7_30kHz_SISO_NTNV_15MHz_CP-OFDM QPSK_2562.5MHz_Outer_Full



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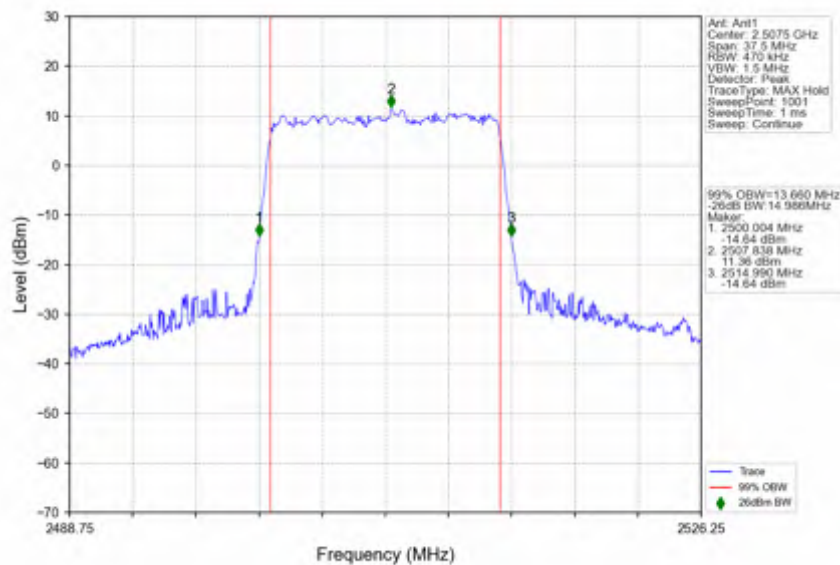
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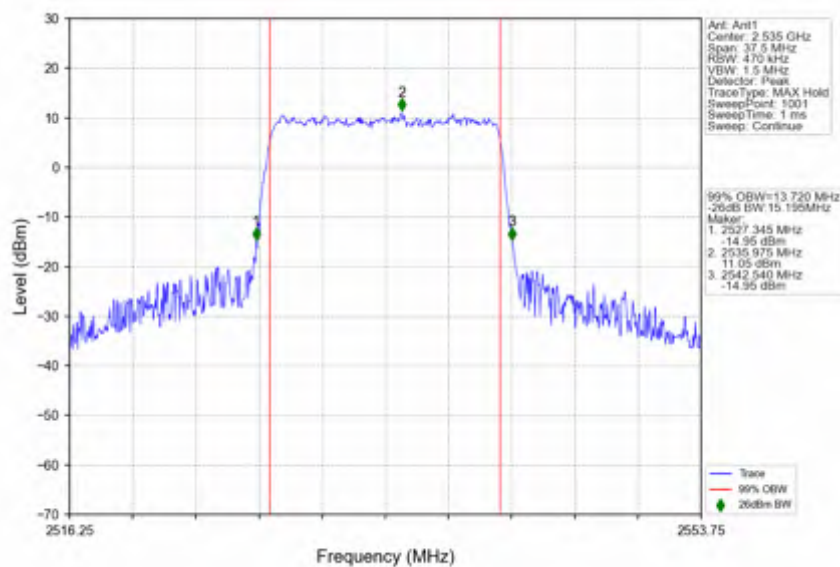
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n7 30kHz SISO NTN 15MHz CP-OFDM 16 QAM 2535MHz Outer Full

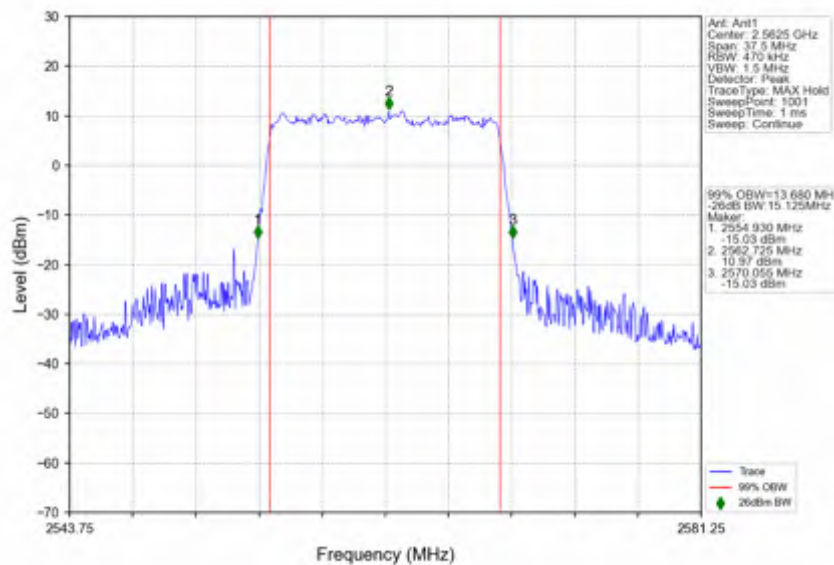


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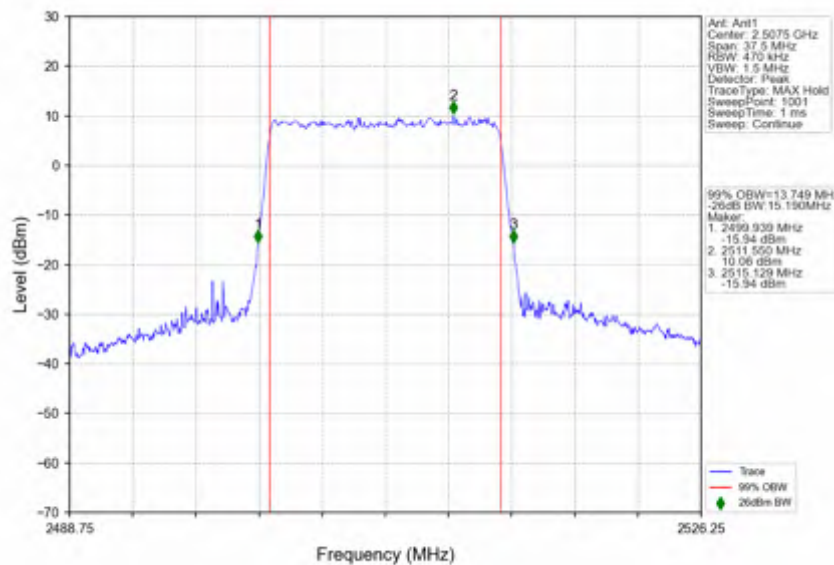
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n7_30kHz_SISO_NTNV_15MHz_CP-OFDM_16 QAM_2562.5MHz_Outer_Full



n7_30kHz_SISO_NTNV_15MHz_CP-OFDM_64 QAM_2507.5MHz_Outer_Full



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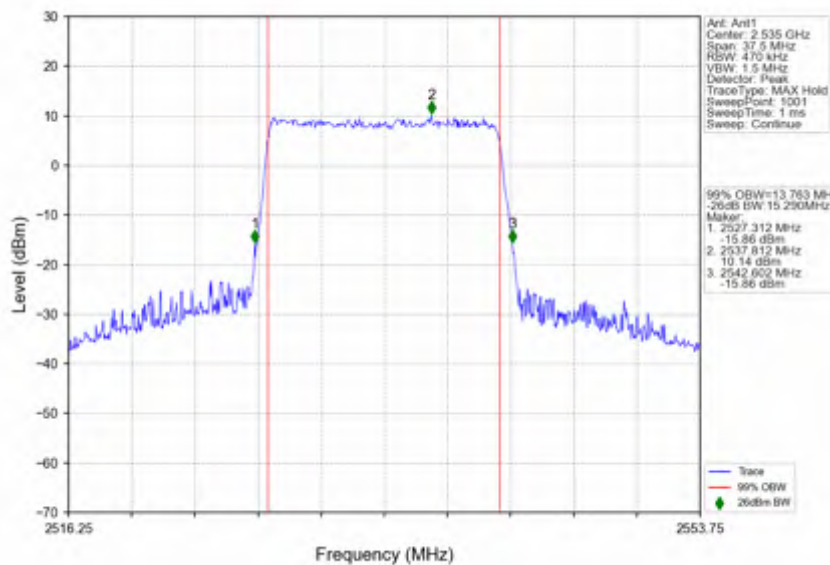
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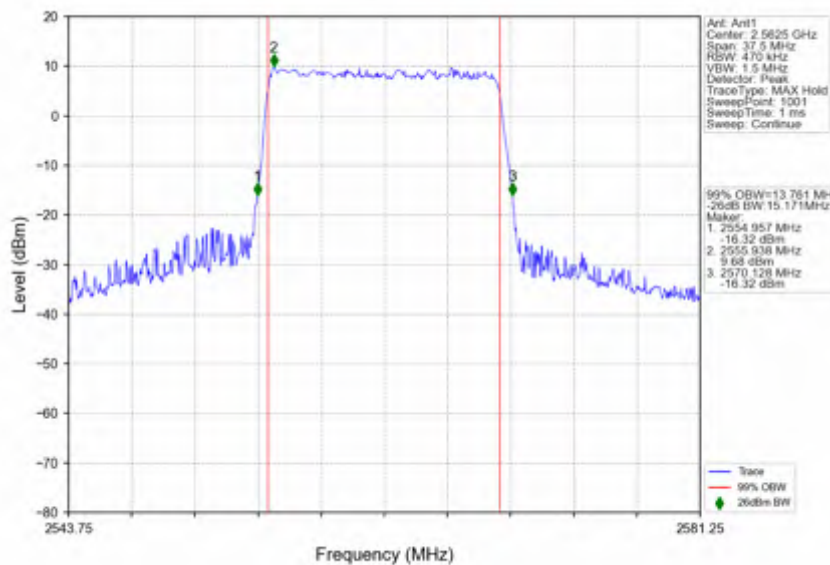
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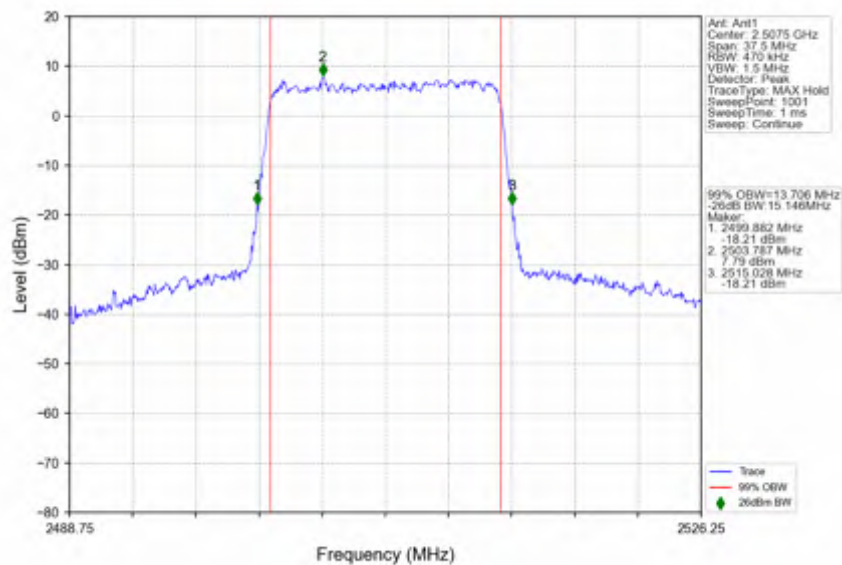
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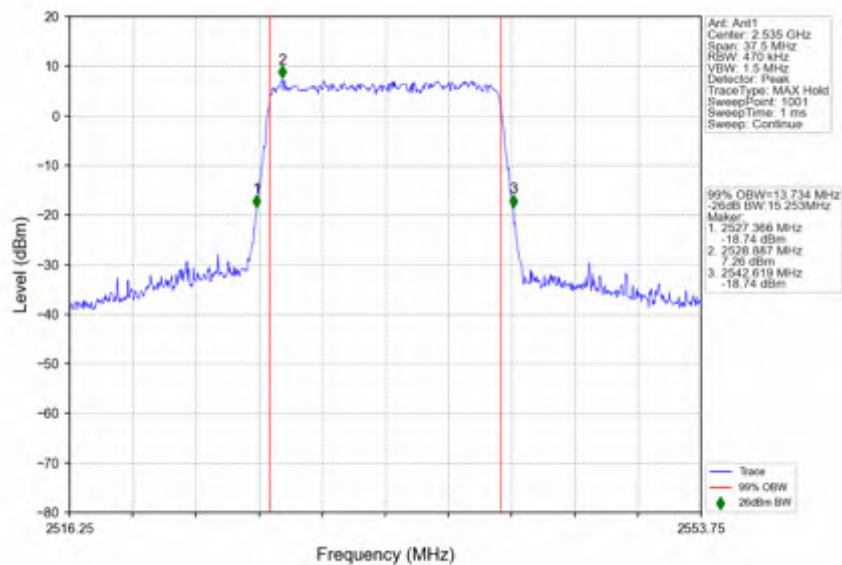
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n7 30kHz SISO NTV 15MHz CP-OFDM 256 QAM 2535MHz Outer Full

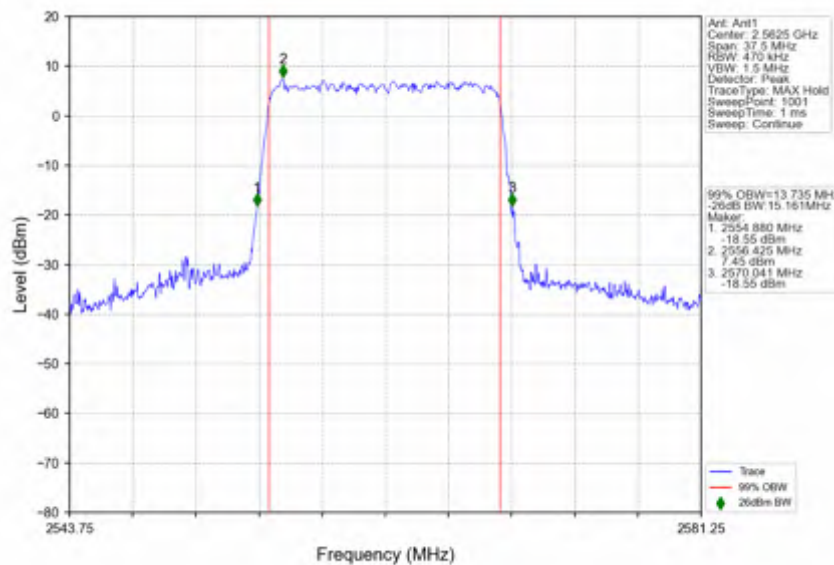


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n7_30kHz_SISO_NTNV_15MHz_CP-OFDM_256_QAM_2562.5MHz_Outer_Full



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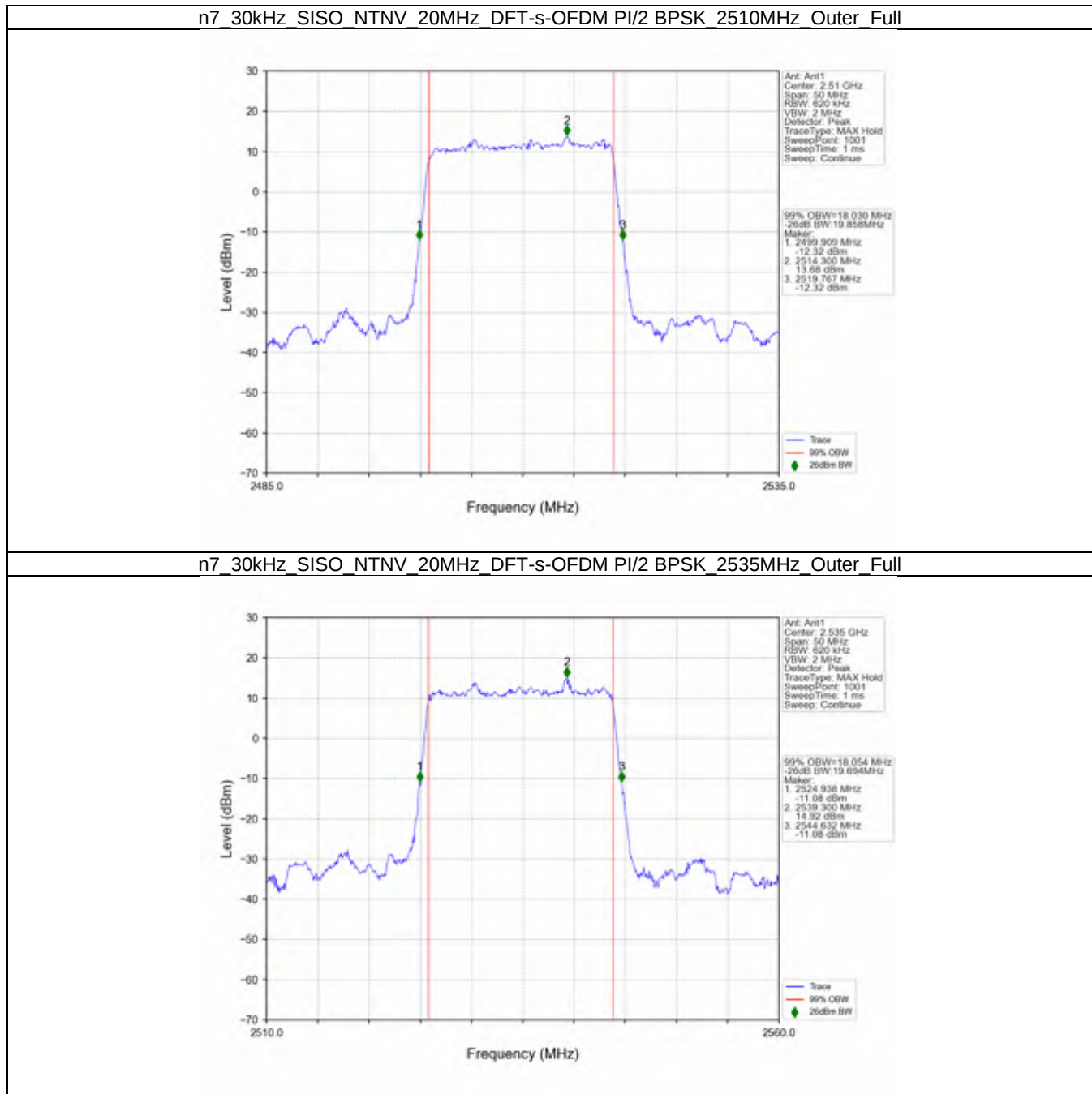
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3.11 30k_SISO_20MHz_NTNV

3.11.1 Test Result

5G NR n7 SCS=30kHz SISO 20MHz NTV						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	2510	Outer_Full	18.03	19.86	/	Pass
	2535	Outer_Full	18.05	19.69	/	Pass
	2560	Outer_Full	18.06	19.71	/	Pass
DFT-s-OFDM QPSK	2510	Outer_Full	18.03	19.91	/	Pass
	2535	Outer_Full	18.03	19.89	/	Pass
	2560	Outer_Full	18.07	19.94	/	Pass
DFT-s-OFDM 16 QAM	2510	Outer_Full	18.10	19.88	/	Pass
	2535	Outer_Full	18.12	19.89	/	Pass
	2560	Outer_Full	18.08	19.74	/	Pass
DFT-s-OFDM 64 QAM	2510	Outer_Full	18.16	19.75	/	Pass
	2535	Outer_Full	18.18	19.70	/	Pass
	2560	Outer_Full	18.20	19.84	/	Pass
DFT-s-OFDM 256 QAM	2510	Outer_Full	18.07	19.86	/	Pass
	2535	Outer_Full	18.05	19.89	/	Pass
	2560	Outer_Full	18.09	19.81	/	Pass
CP-OFDM QPSK	2510	Outer_Full	18.39	20.15	/	Pass
	2535	Outer_Full	18.33	20.09	/	Pass
	2560	Outer_Full	18.34	20.01	/	Pass
CP-OFDM 16 QAM	2510	Outer_Full	18.38	20.15	/	Pass
	2535	Outer_Full	18.40	20.15	/	Pass
	2560	Outer_Full	18.38	20.15	/	Pass
CP-OFDM 64 QAM	2510	Outer_Full	18.33	20.10	/	Pass
	2535	Outer_Full	18.38	20.07	/	Pass
	2560	Outer_Full	18.37	20.15	/	Pass
CP-OFDM 256 QAM	2510	Outer_Full	18.38	21.37	/	Pass
	2535	Outer_Full	18.39	20.18	/	Pass
	2560	Outer_Full	18.37	20.13	/	Pass

3.11.2 Test Graph

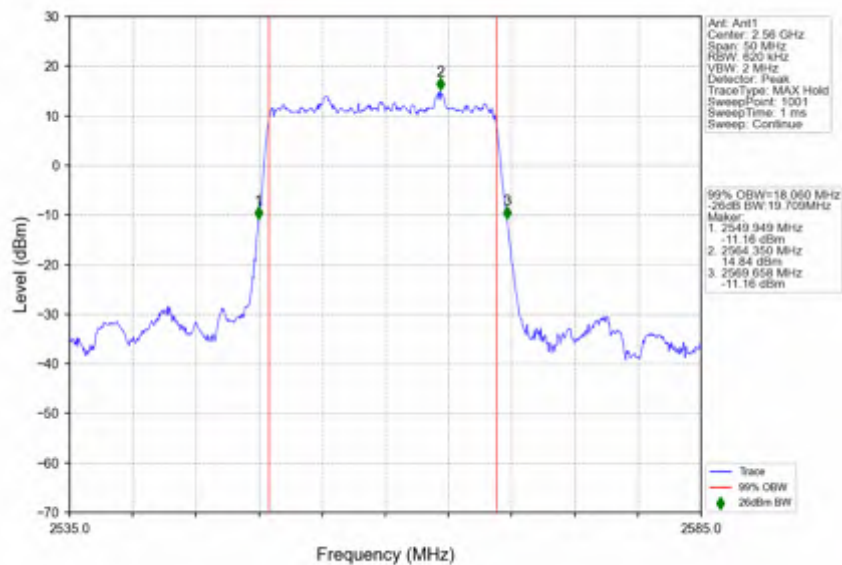


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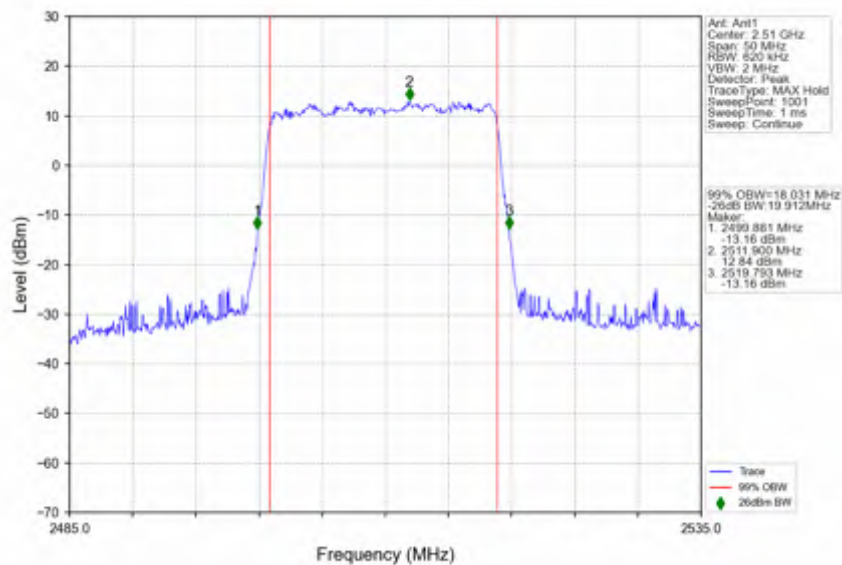
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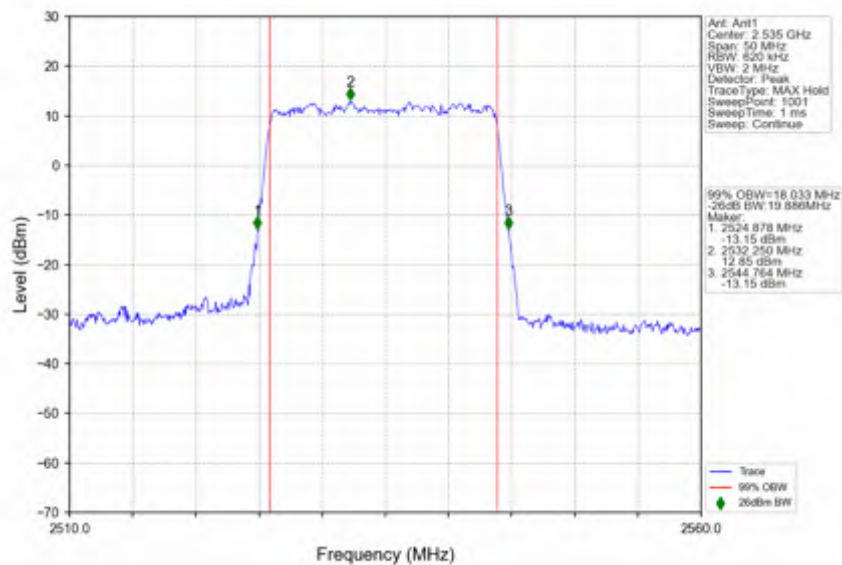
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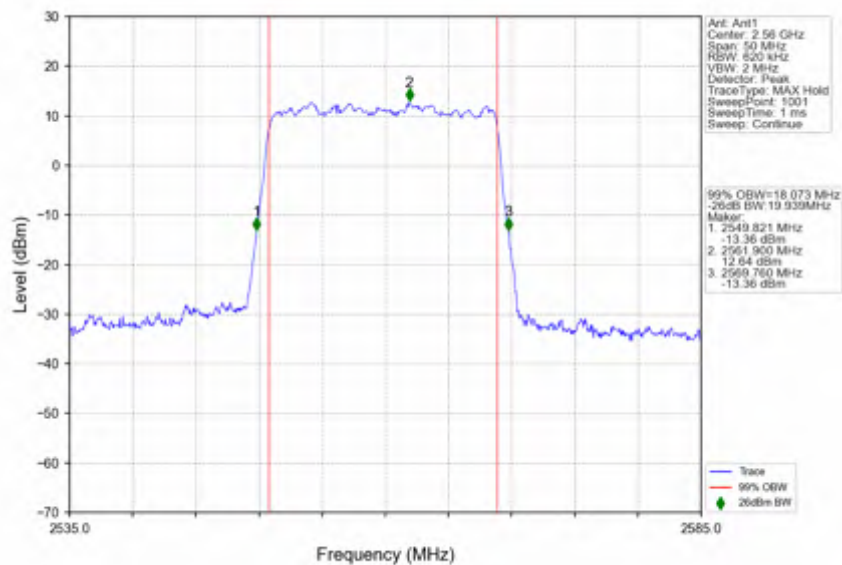
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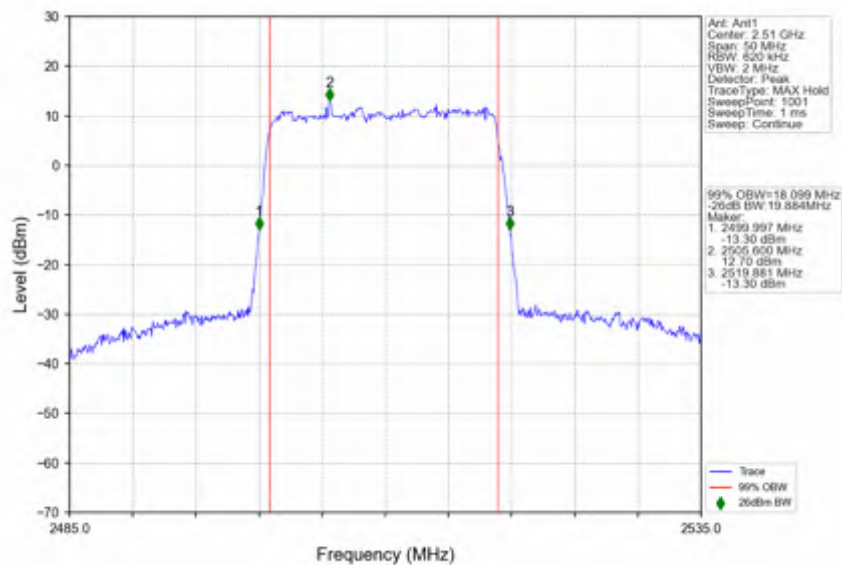
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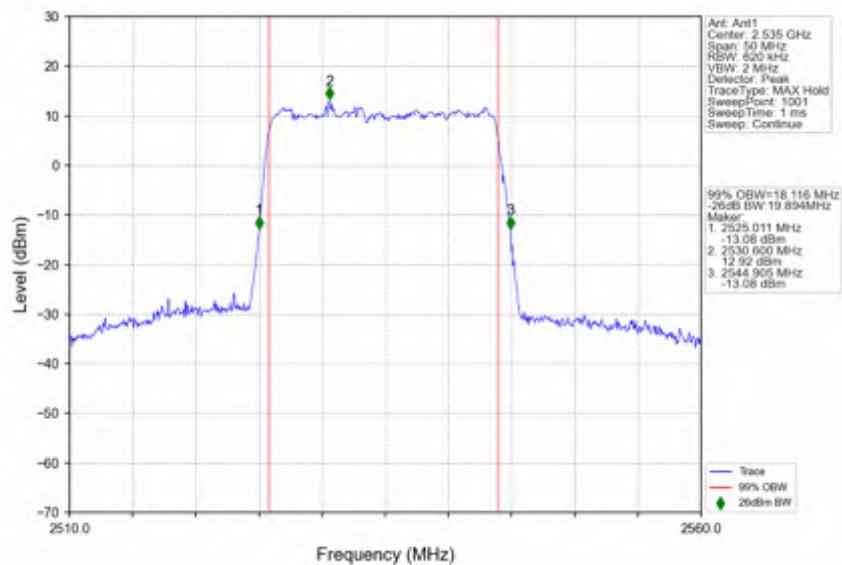
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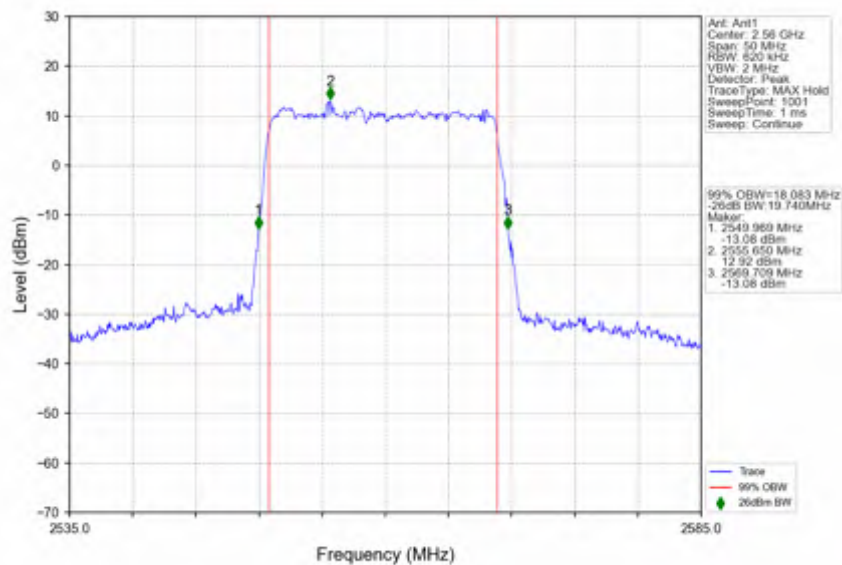
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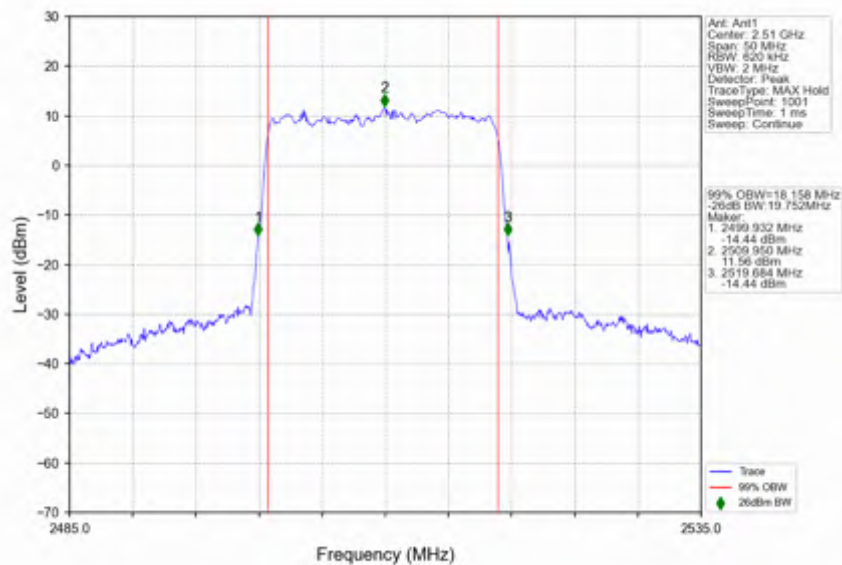
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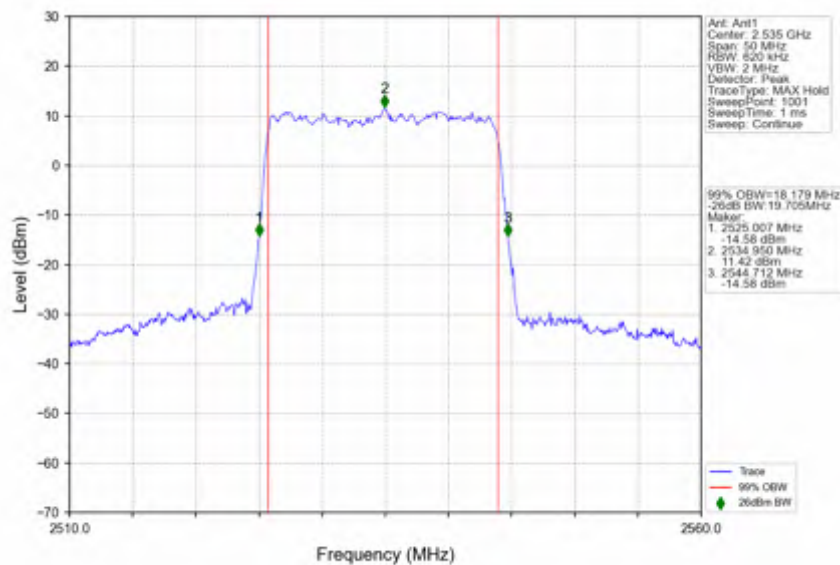
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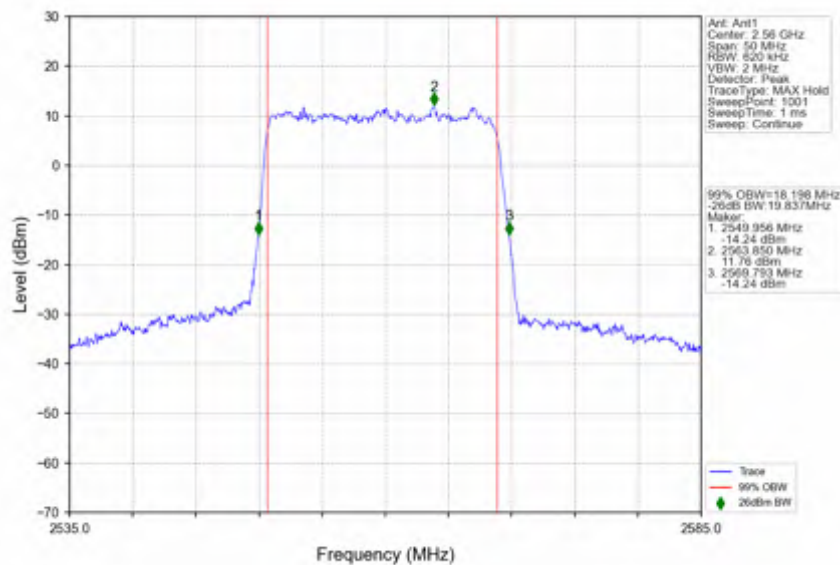
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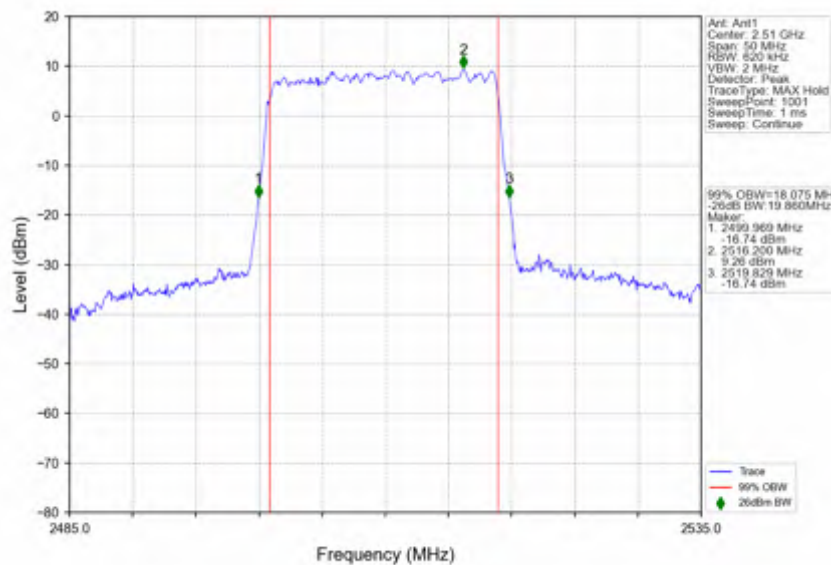
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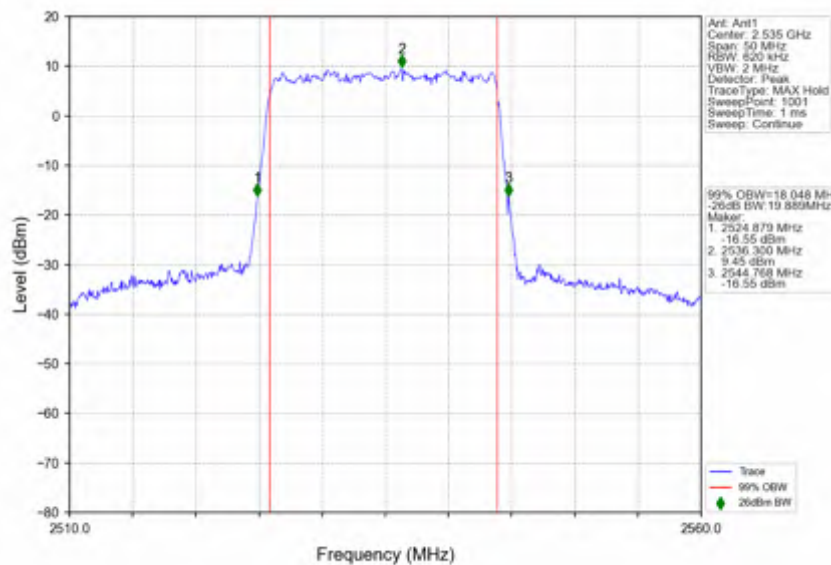
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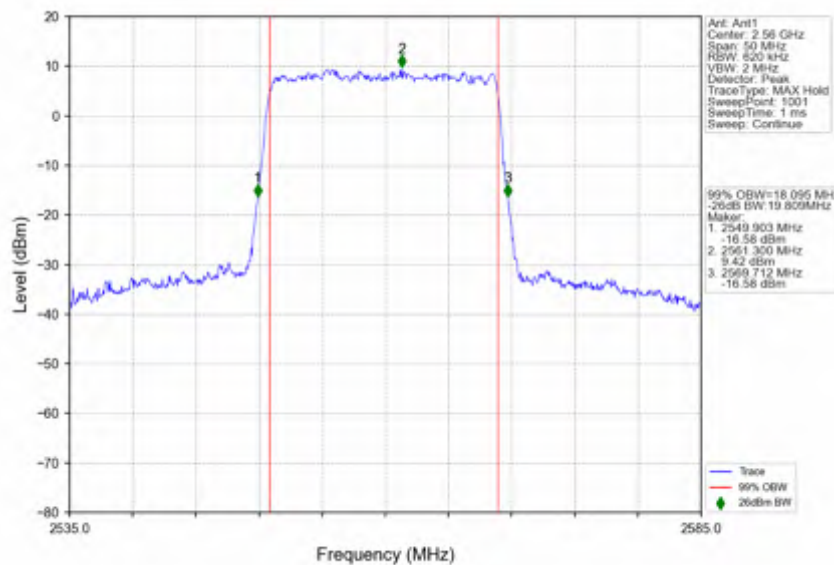


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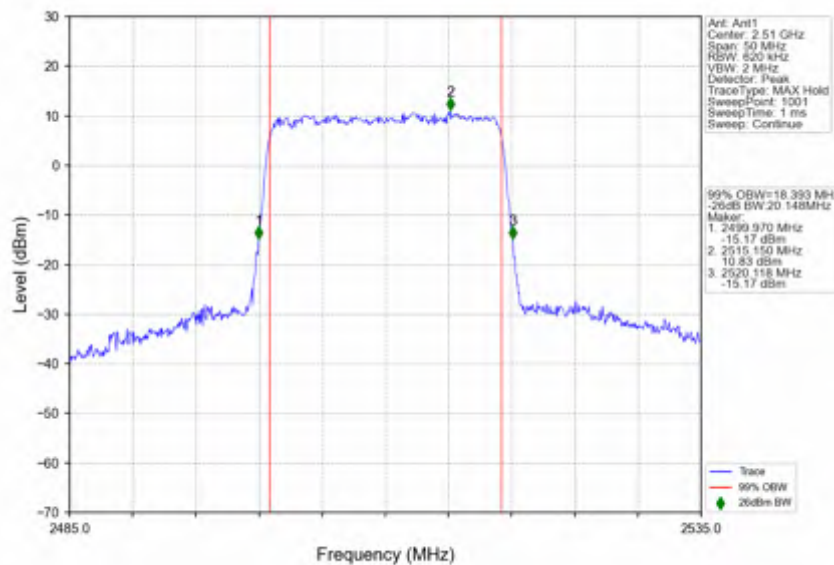
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n7_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM_256 QAM_2560MHz_Outer_Full



n7_30kHz_SISO_NTNV_20MHz_CP-OFDM QPSK_2510MHz_Outer_Full



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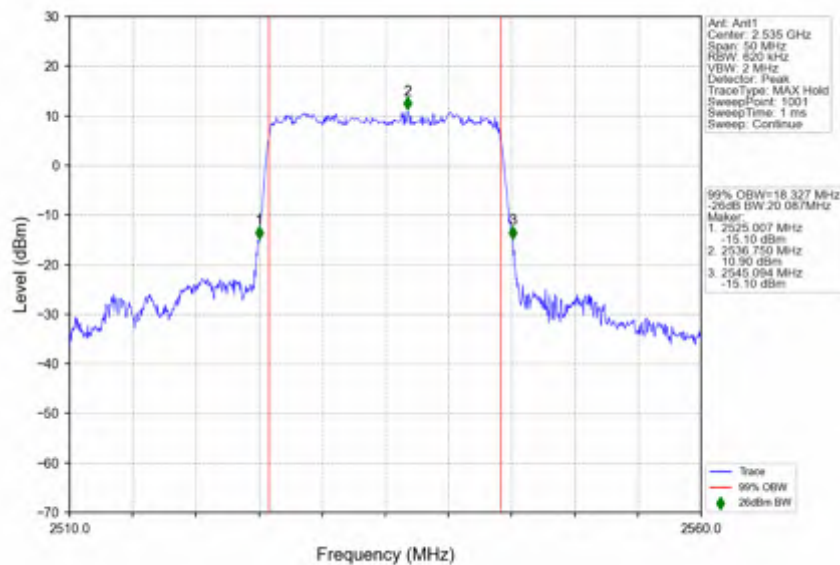
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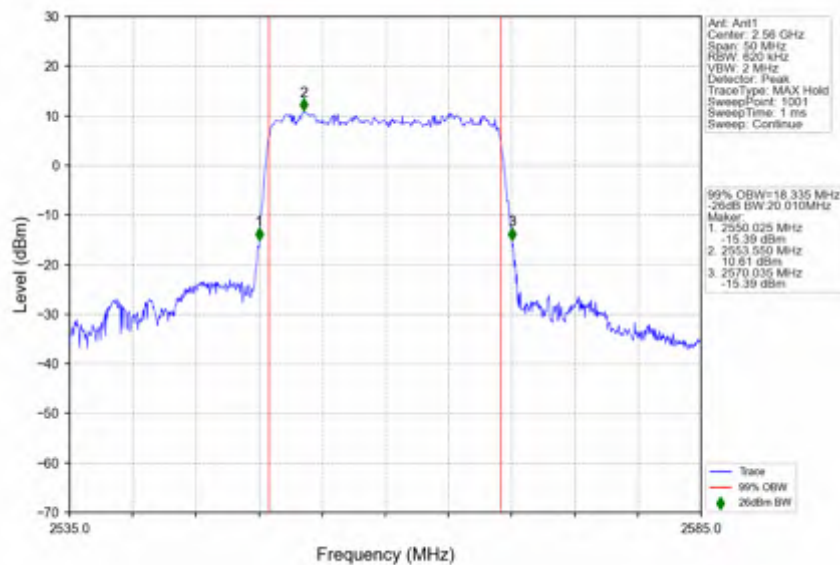
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n7_30kHz_SISO_NTNV_20MHz_CP-OFDM_QPSK_2535MHz_Outer_Full



n7 30kHz SISO NTV 20MHz CP-OFDM QPSK 2560MHz Outer Full



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