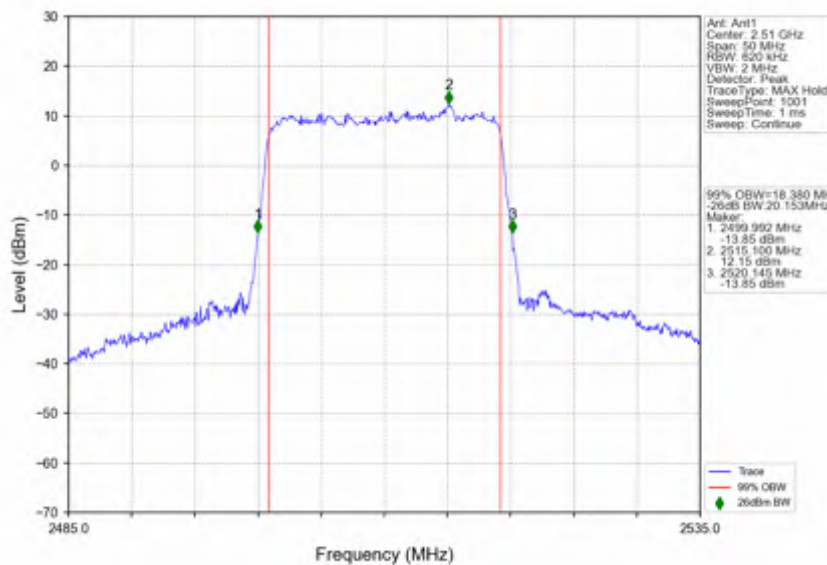
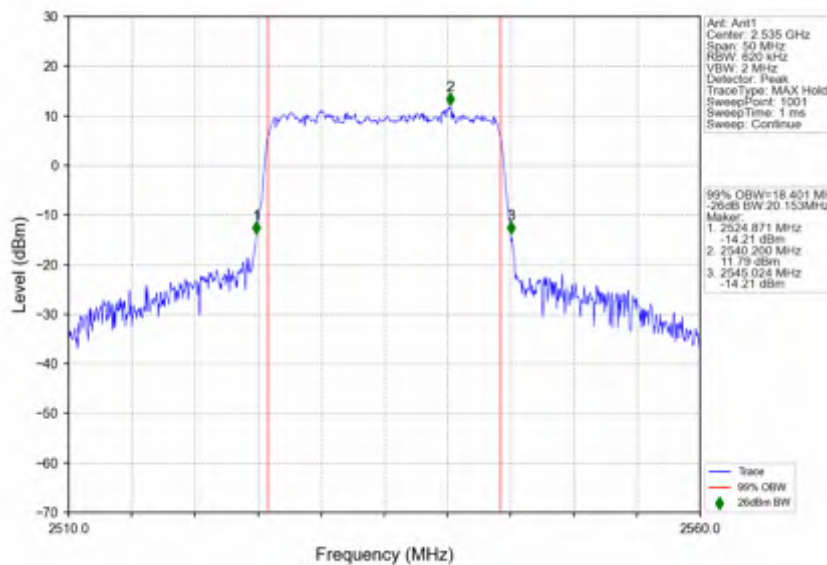


n7_30kHz_SISO_NTNV_20MHz_CP-OFDM_16_QAM_2510MHz_Outer_Full



n7_30kHz_SISO_NTNV_20MHz_CP-OFDM_16_QAM_2535MHz_Outer_Full



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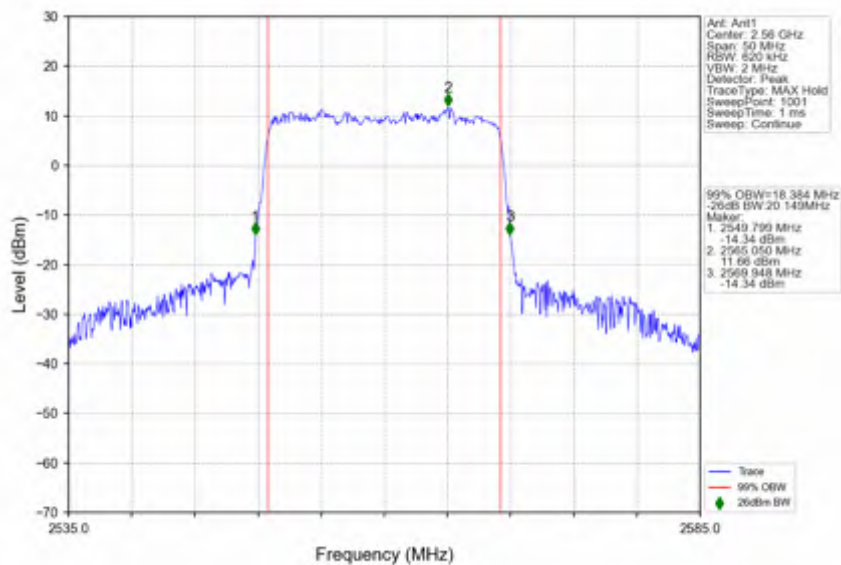
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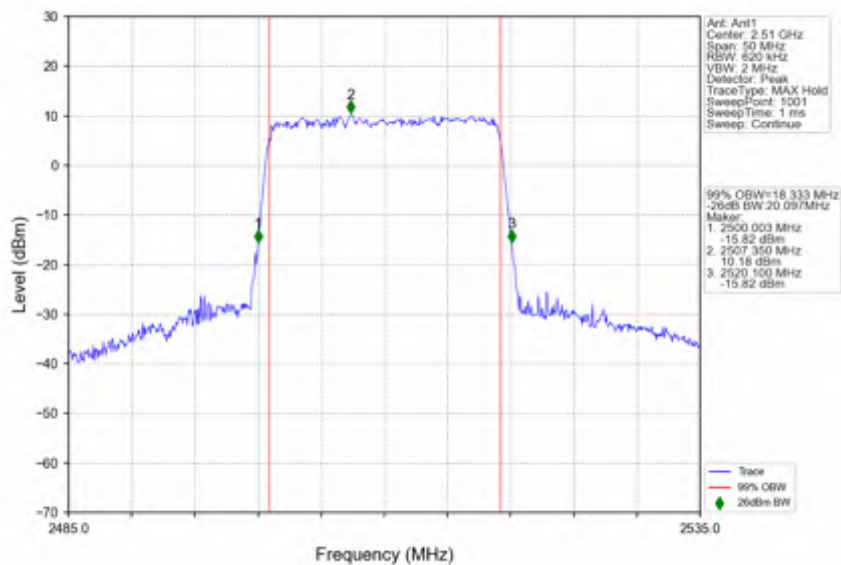
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n7 30kHz SISO NTN 20MHz CP-OFDM 16 QAM 2560MHz Outer Full



n7 30kHz SISO NTN 20MHz CP-OFDM 64 QAM 2510MHz Outer Full

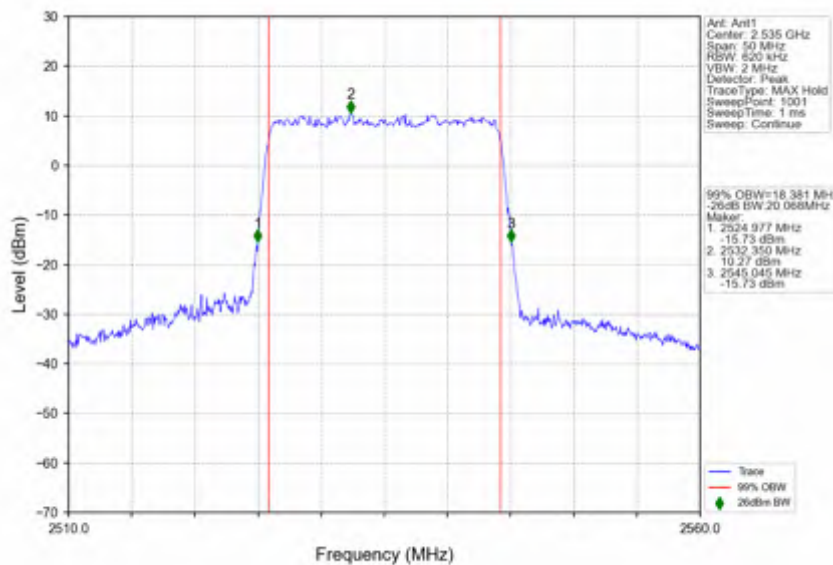


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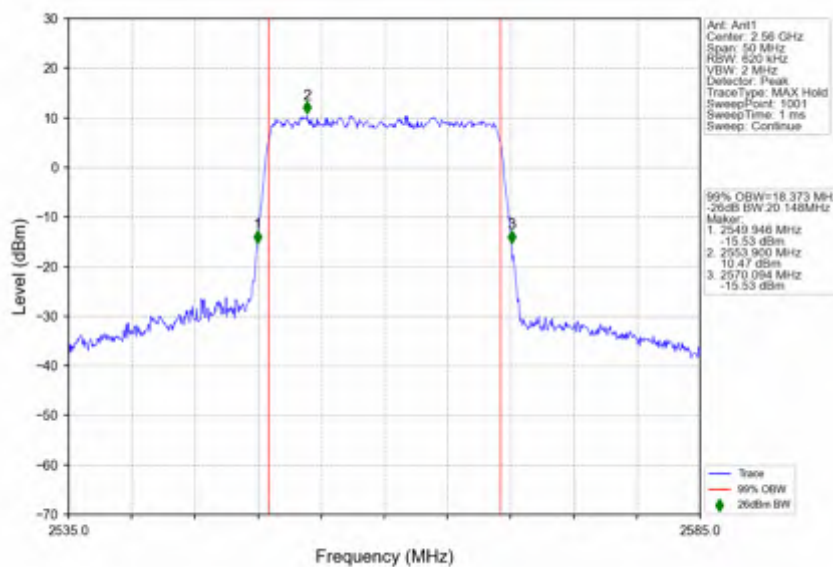
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n7_30kHz_SISO_NTNV_20MHz_CP-OFDM_64_QAM_2535MHz_Outer_Full



n7 30kHz SISO NTN 20MHz CP-OFDM 64 QAM 2560MHz Outer Full

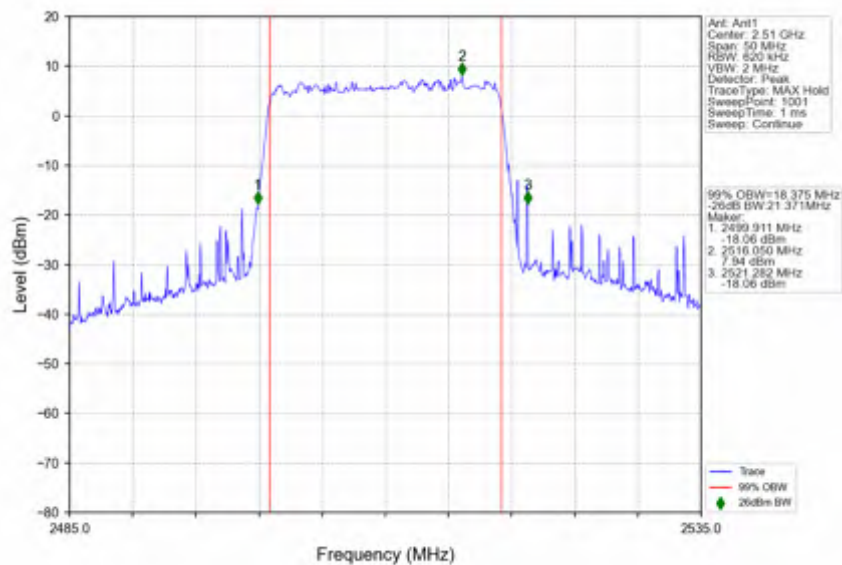


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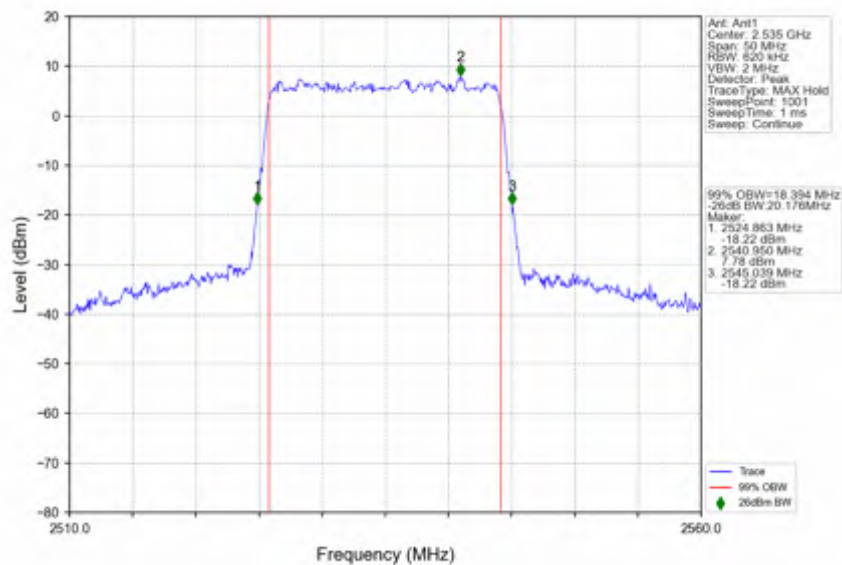
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n7 30kHz SISO NTNv 20MHz CP-OFDM 256 QAM 2510MHz Outer Full



n7 30kHz SISO NTV 20MHz CP-OFDM 256 QAM 2535MHz Outer Full

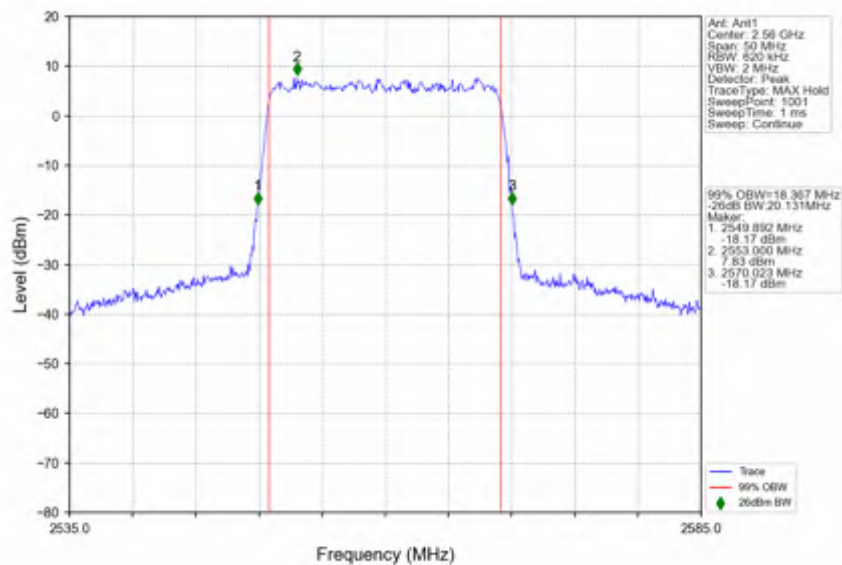


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n7_30kHz_SISO_NTNV_20MHz_CP-OFDM_256_QAM_2560MHz_Outer_Full



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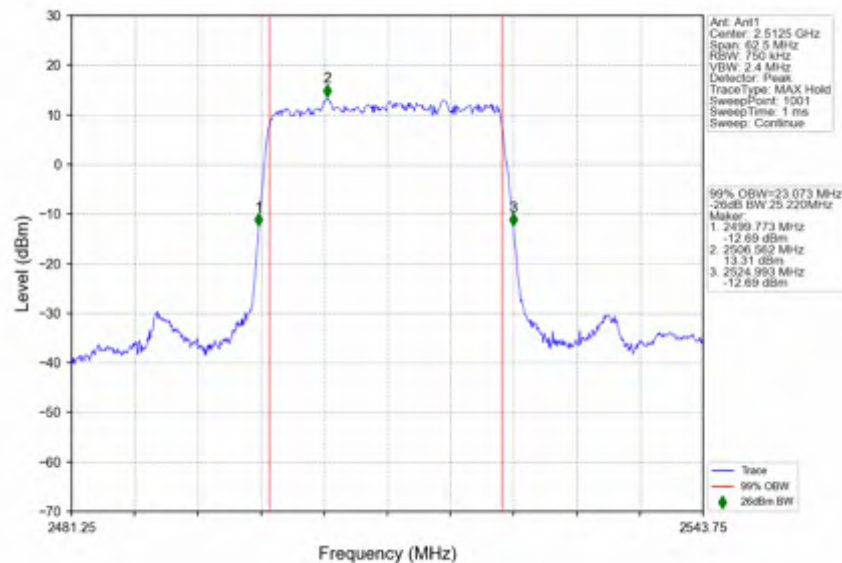
3.12 30k_SISO_25MHz_NTNV

3.12.1 Test Result

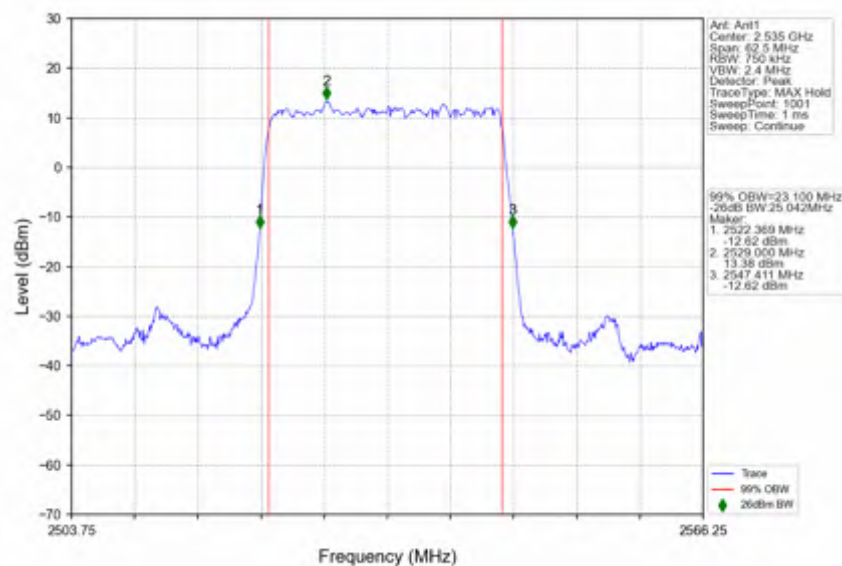
5G NR n7 SCS=30kHz SISO 25MHz NTVN						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	2512.5	Outer_Full	23.07	25.22	/	Pass
	2535	Outer_Full	23.10	25.04	/	Pass
	2557.5	Outer_Full	23.09	25.08	/	Pass
DFT-s-OFDM QPSK	2512.5	Outer_Full	23.09	25.19	/	Pass
	2535	Outer_Full	23.11	25.17	/	Pass
	2557.5	Outer_Full	23.10	25.19	/	Pass
DFT-s-OFDM 16 QAM	2512.5	Outer_Full	23.00	25.01	/	Pass
	2535	Outer_Full	23.04	24.97	/	Pass
	2557.5	Outer_Full	23.04	25.00	/	Pass
DFT-s-OFDM 64 QAM	2512.5	Outer_Full	22.98	25.05	/	Pass
	2535	Outer_Full	23.06	25.02	/	Pass
	2557.5	Outer_Full	23.06	24.93	/	Pass
DFT-s-OFDM 256 QAM	2512.5	Outer_Full	23.01	24.86	/	Pass
	2535	Outer_Full	23.07	25.05	/	Pass
	2557.5	Outer_Full	23.04	25.02	/	Pass
CP-OFDM QPSK	2512.5	Outer_Full	23.34	25.32	/	Pass
	2535	Outer_Full	23.42	25.43	/	Pass
	2557.5	Outer_Full	23.36	25.27	/	Pass
CP-OFDM 16 QAM	2512.5	Outer_Full	23.26	25.28	/	Pass
	2535	Outer_Full	23.41	25.40	/	Pass
	2557.5	Outer_Full	23.34	25.38	/	Pass
CP-OFDM 64 QAM	2512.5	Outer_Full	23.34	25.41	/	Pass
	2535	Outer_Full	23.40	25.34	/	Pass
	2557.5	Outer_Full	23.36	25.32	/	Pass
CP-OFDM 256 QAM	2512.5	Outer_Full	23.44	25.33	/	Pass
	2535	Outer_Full	23.48	25.50	/	Pass
	2557.5	Outer_Full	23.44	25.53	/	Pass

3.12.2 Test Graph

n7_30kHz_SISO_NTNV_25MHz_DFT-s-OFDM_PI/2_BPSK_2512.5MHz_Outer_Full



n7_30kHz_SISO_NTNV_25MHz_DFT-s-OFDM_PI/2_BPSK_2535MHz_Outer_Full



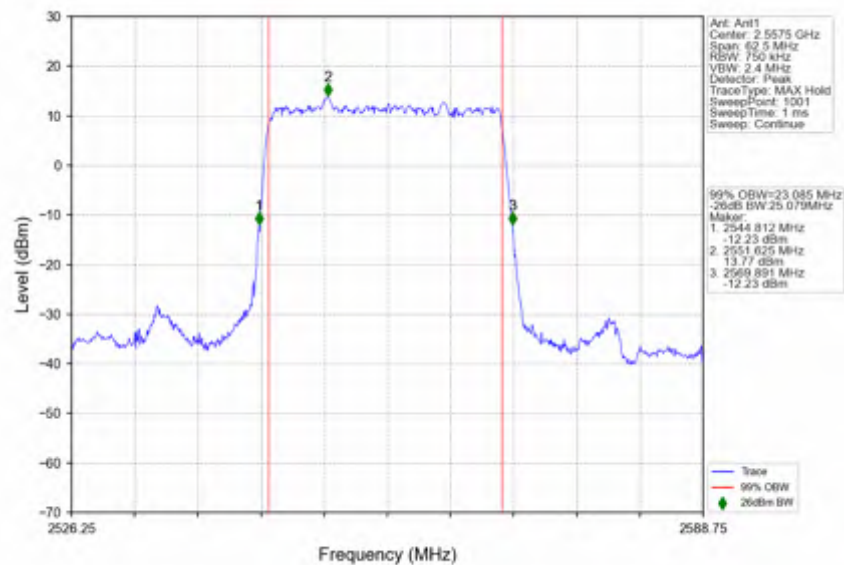
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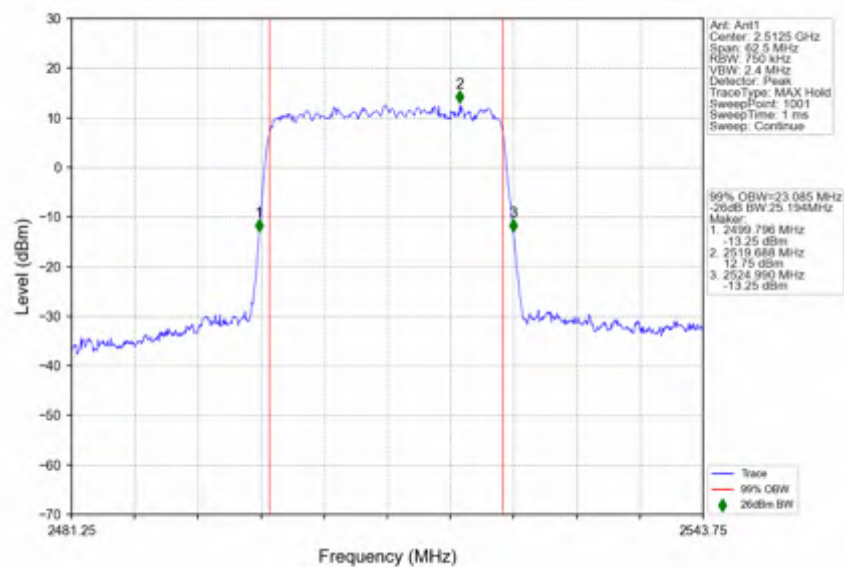
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n7_30kHz_SISO_NTNV_25MHz_DFT-s-OFDM_PI/2_BPSK_2557.5MHz_Outer_Full



n7 30kHz SISO NTNv 25MHz DFT-s-OFDM QPSK 2512.5MHz Outer Full

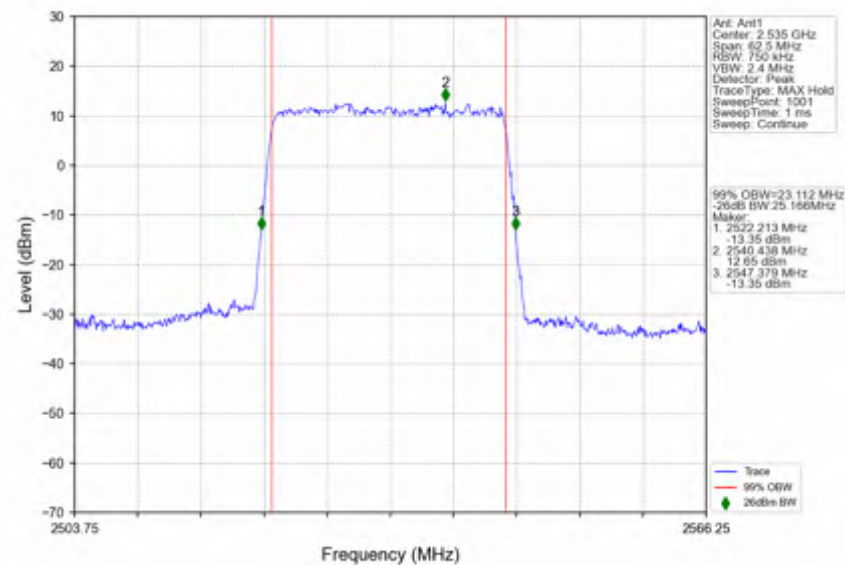


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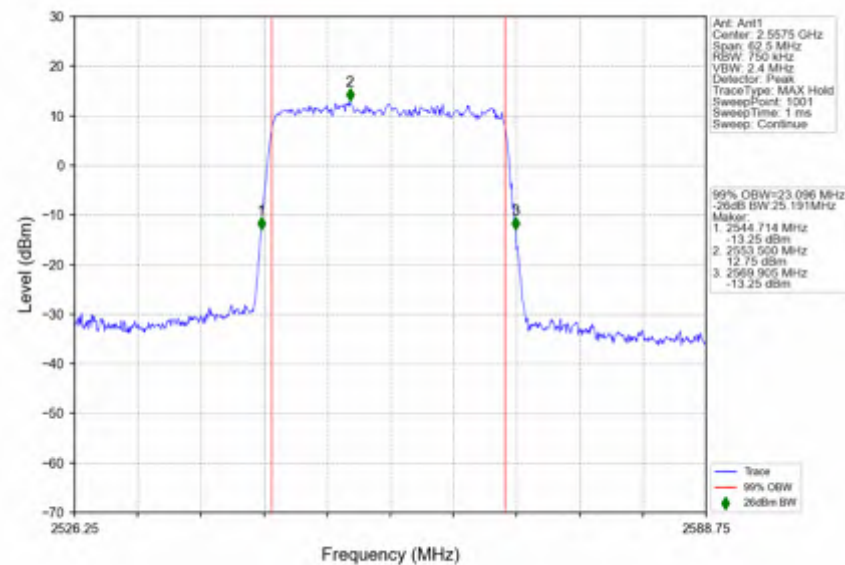
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n7_30kHz_SISO_NTNV_25MHz_DFT-s-OFDM QPSK_2535MHz_Outer_Full



n7_30kHz_SISO_NTNV_25MHz_DFT-s-OFDM QPSK_2557.5MHz_Outer_Full



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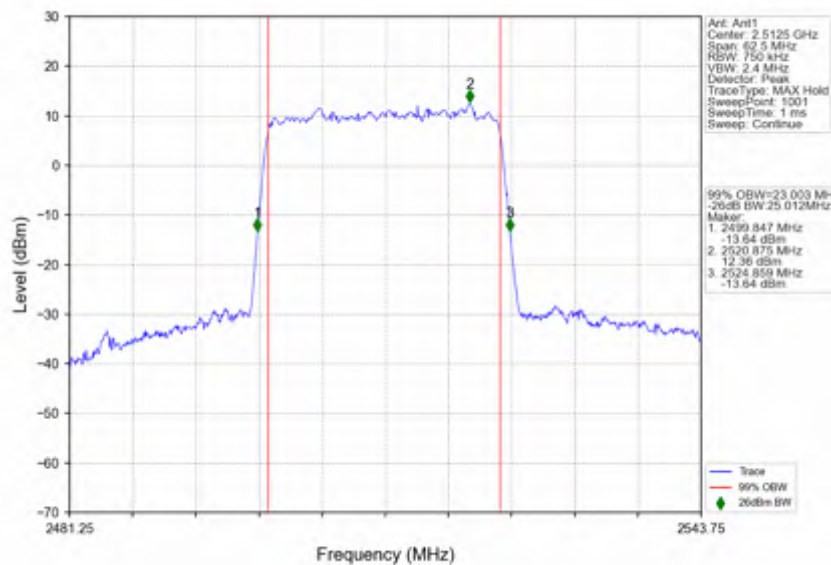
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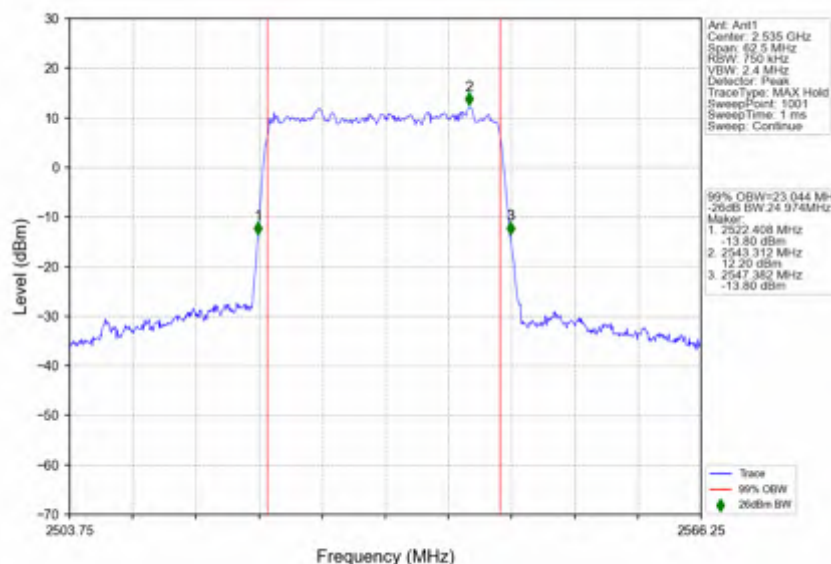
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n7 30kHz SISO NTNv 25MHz DFT-s-OFDM 16 QAM 2535MHz Outer Full

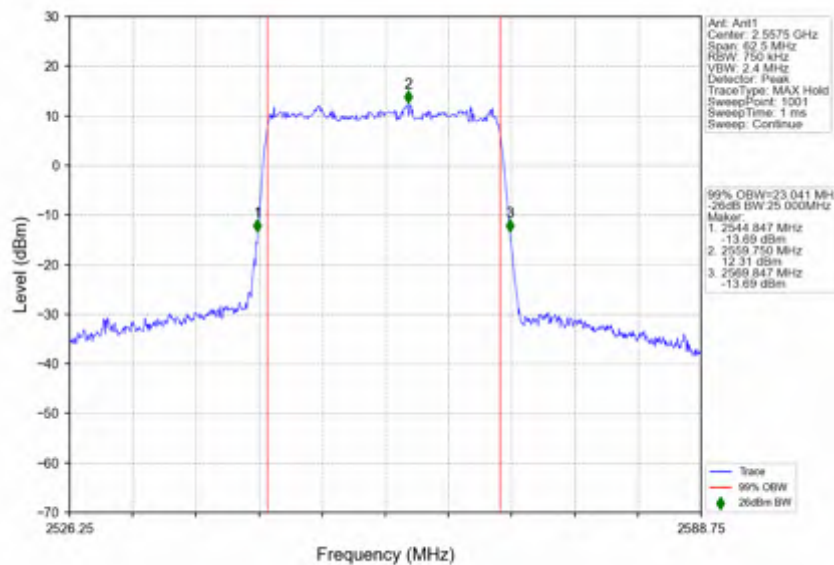


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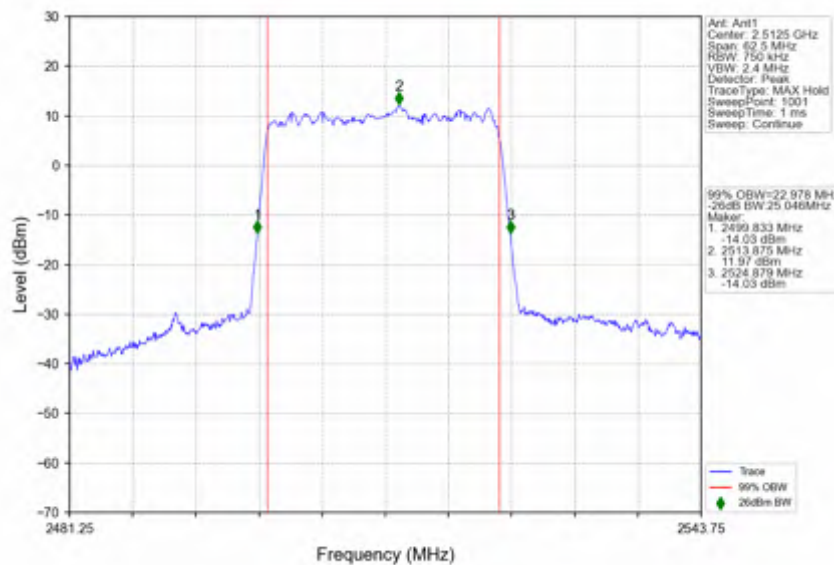
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n7 30kHz SISO NTV 25MHz DFT-s-OFDM 16 QAM 2557.5MHz Outer Full



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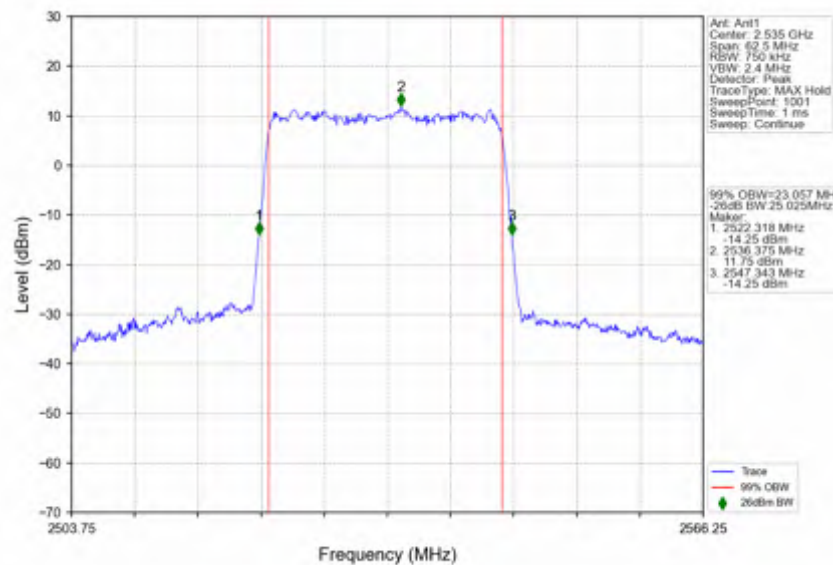


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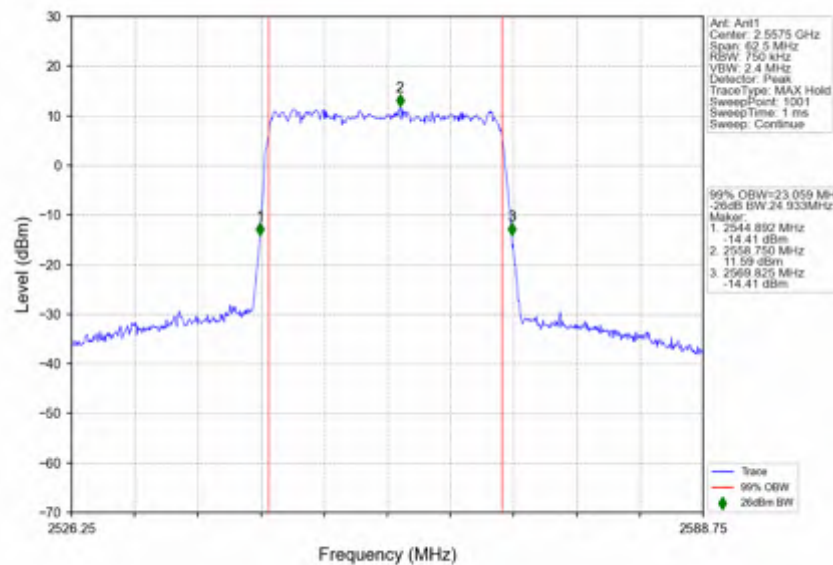
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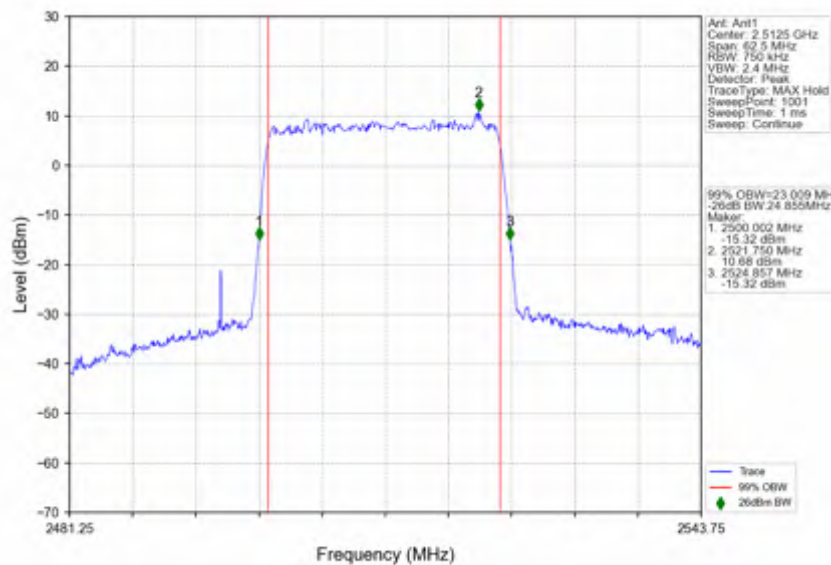
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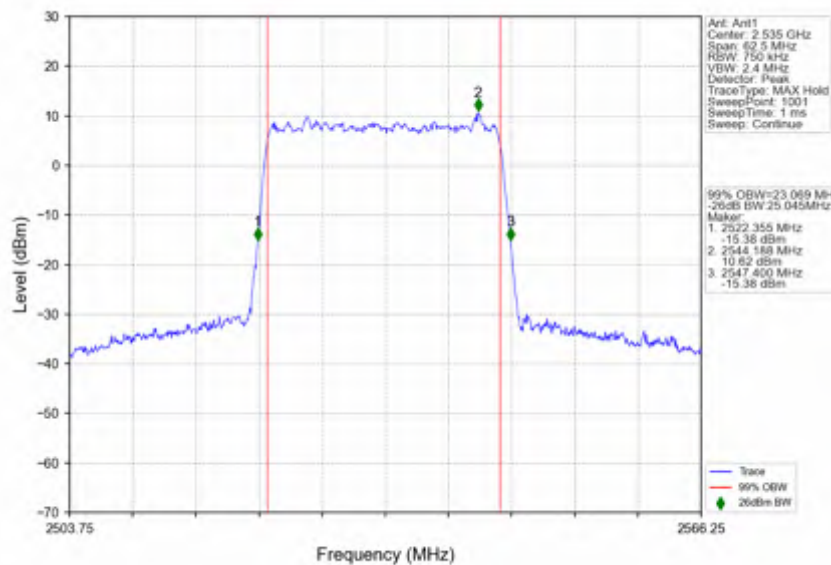
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n7_30kHz_SISO_NTNV_25MHz_DFT-s-OFDM_256 QAM_2535MHz_Outer_Full



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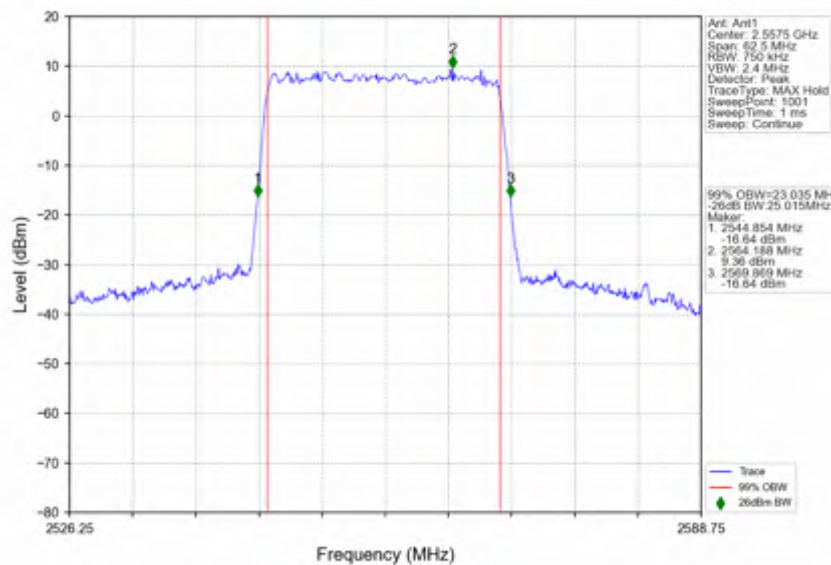
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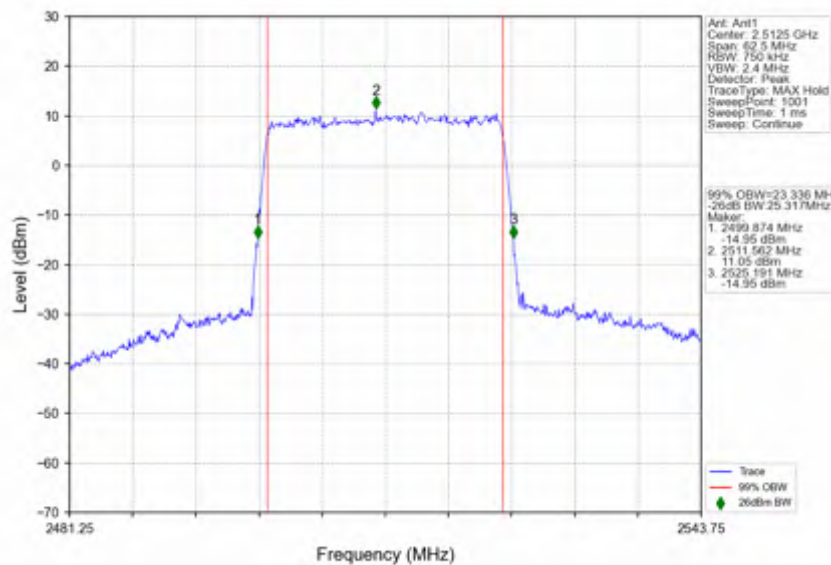
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0512-5127350000 0512-5127370011 sgs.china@sgs.com

n7_30kHz_SISO_NTNV_25MHz_DFT-s-OFDM 256 QAM_2557.5MHz_Outer_Full



n7_30kHz_SISO_NTNV_25MHz_CP-OFDM QPSK_2512.5MHz_Outer_Full



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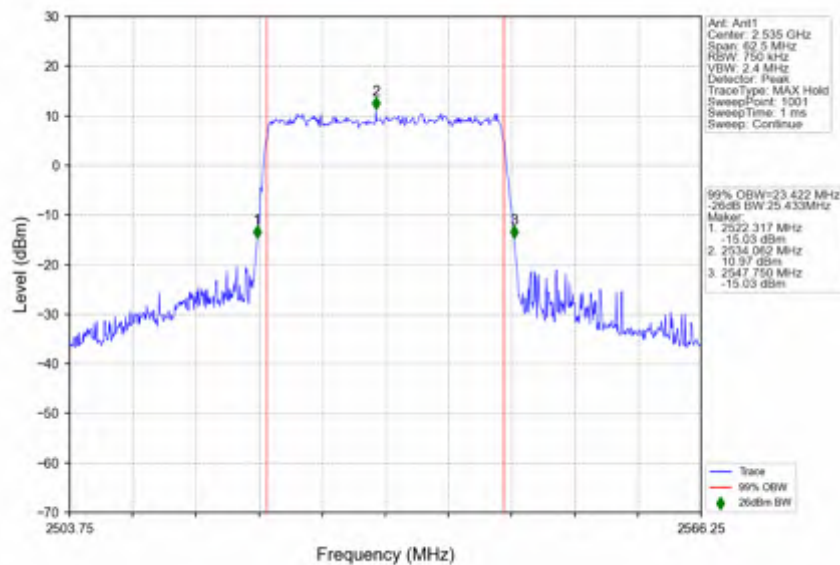
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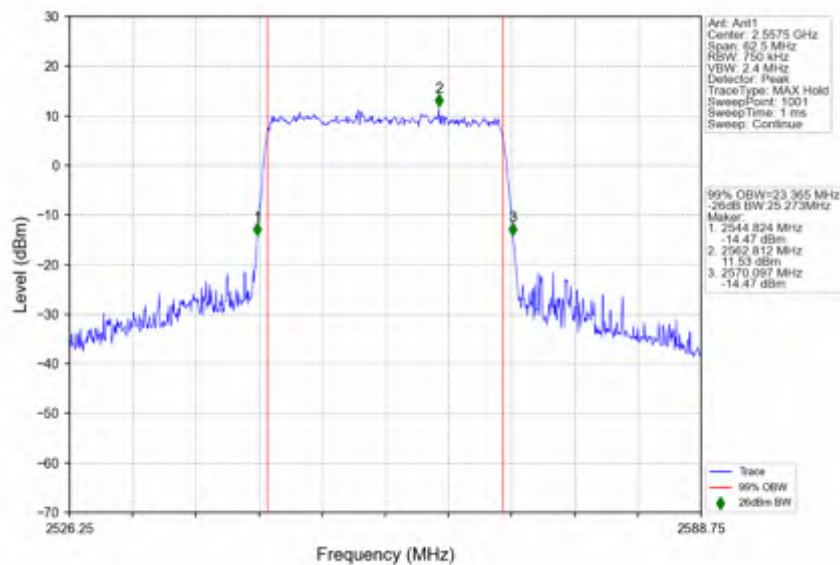
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n7_30kHz_SISO_NTNV_25MHz_CP-OFDM QPSK_2535MHz_Outer_Full



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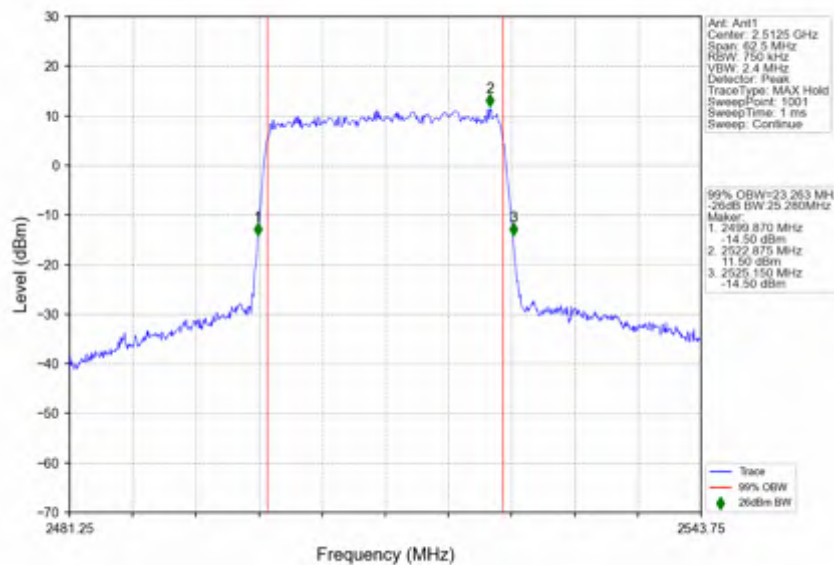
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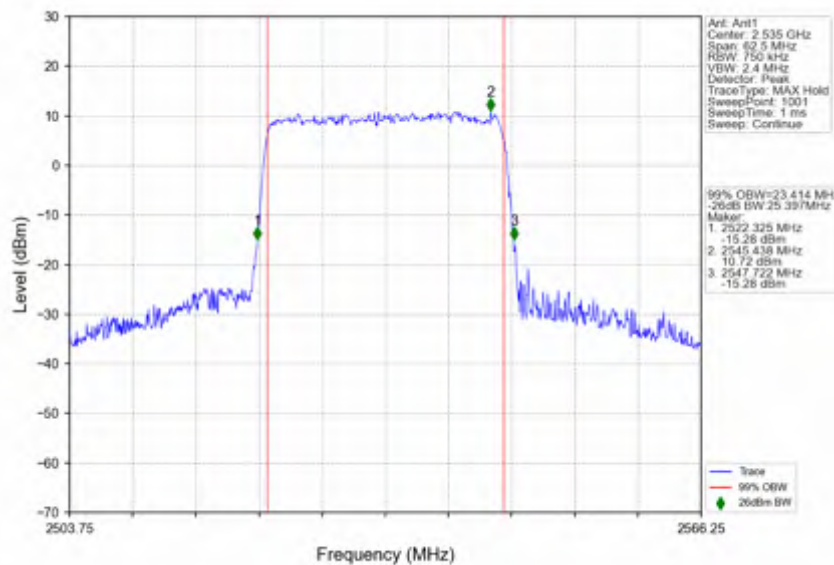
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n7_30kHz_SISO_NTNV_25MHz_CP-OFDM_16_QAM_2512.5MHz_Outer_Full



n7_30kHz_SISO_NTNV_25MHz_CP-OFDM_16_QAM_2535MHz_Outer_Full



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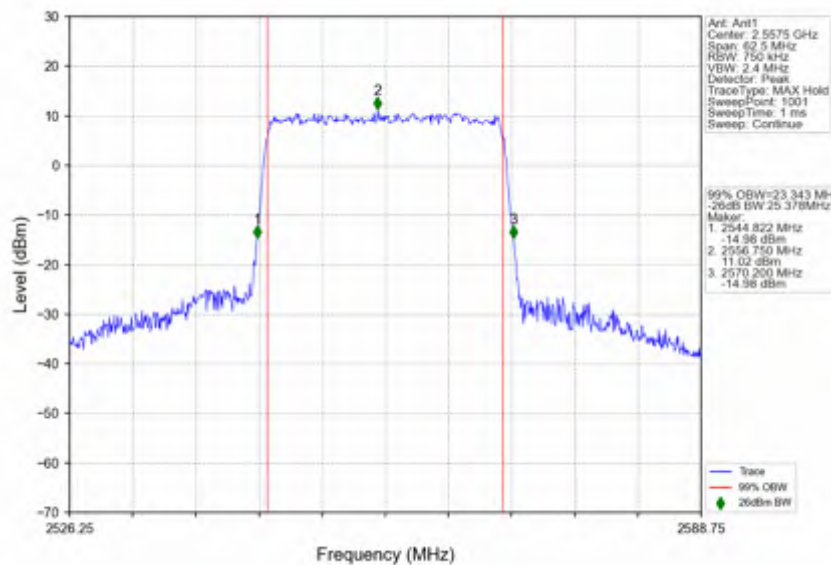
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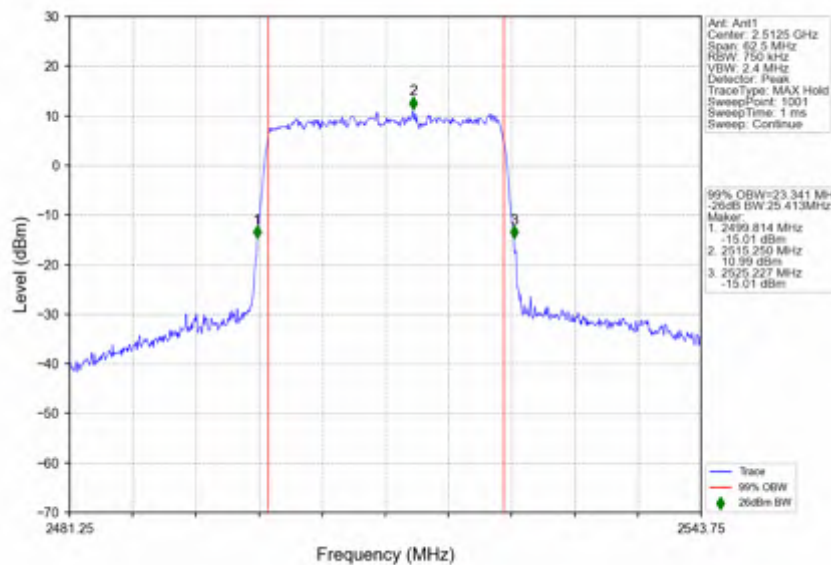
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n7_30kHz_SISO_NTNV_25MHz_CP-OFDM_16_QAM_2557.5MHz_Outer_Full



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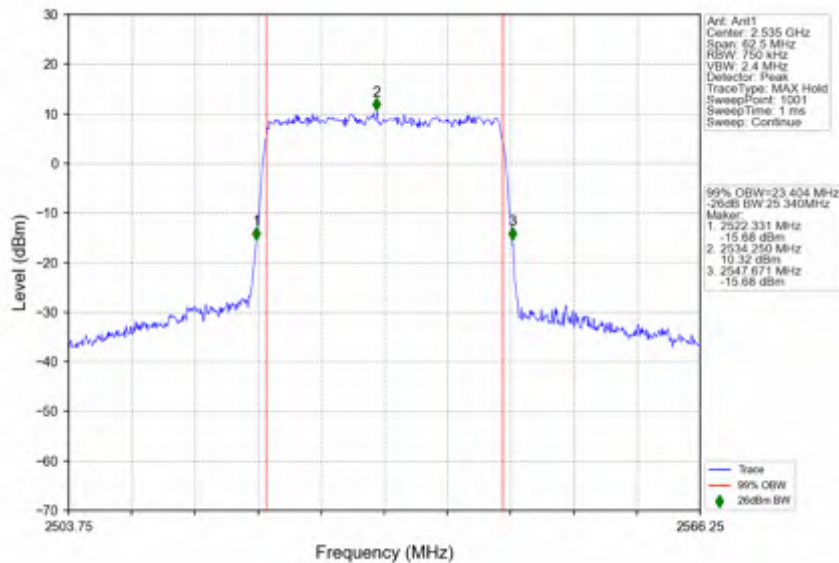
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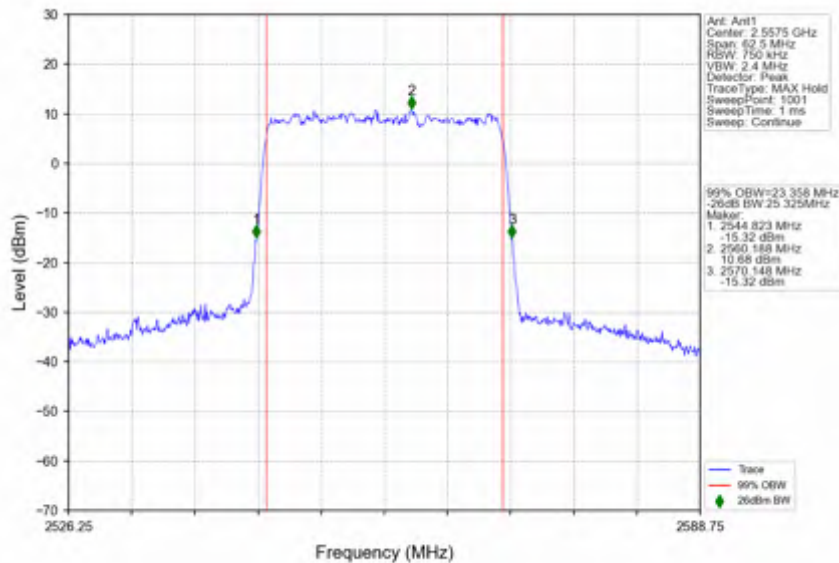
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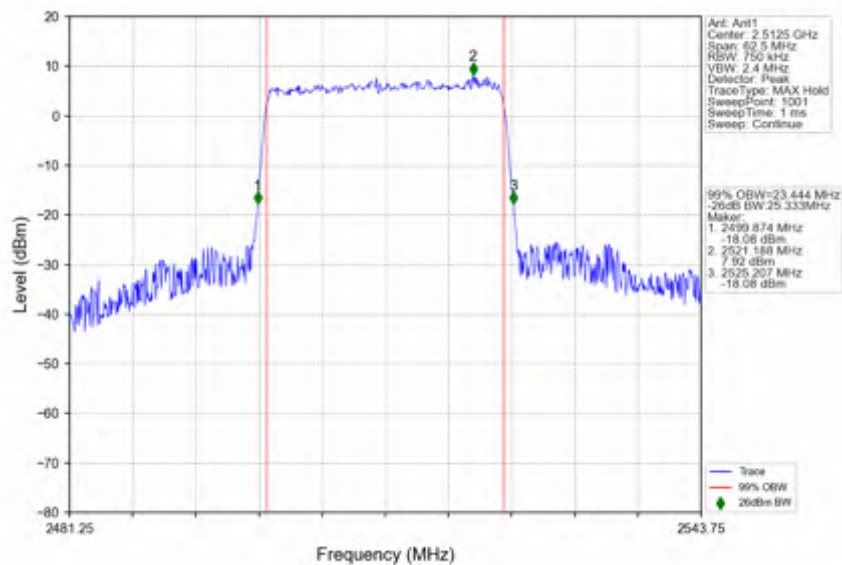


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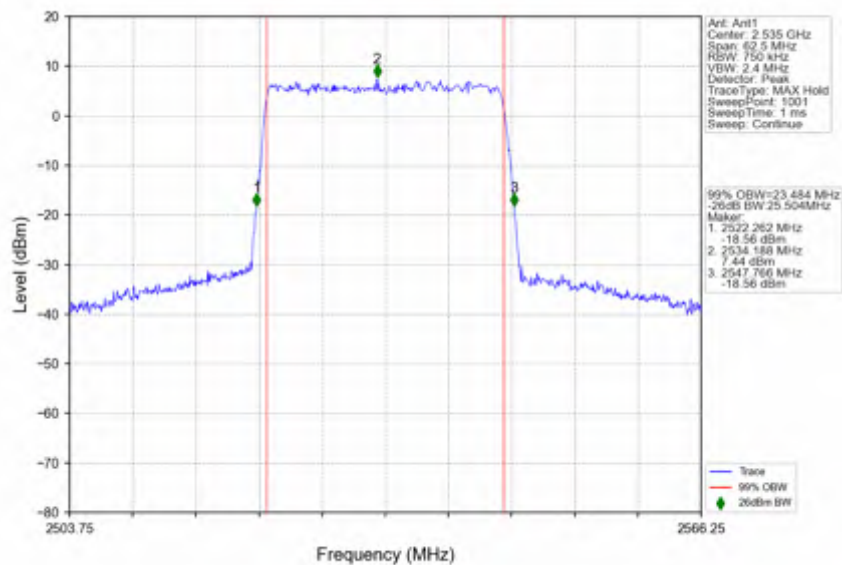
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n7_30kHz_SISO_NTNV_25MHz_CP-OFDM 256 QAM_2512.5MHz_Outer_Full



n7_30kHz_SISO_NTNV_25MHz_CP-OFDM 256 QAM_2535MHz_Outer_Full



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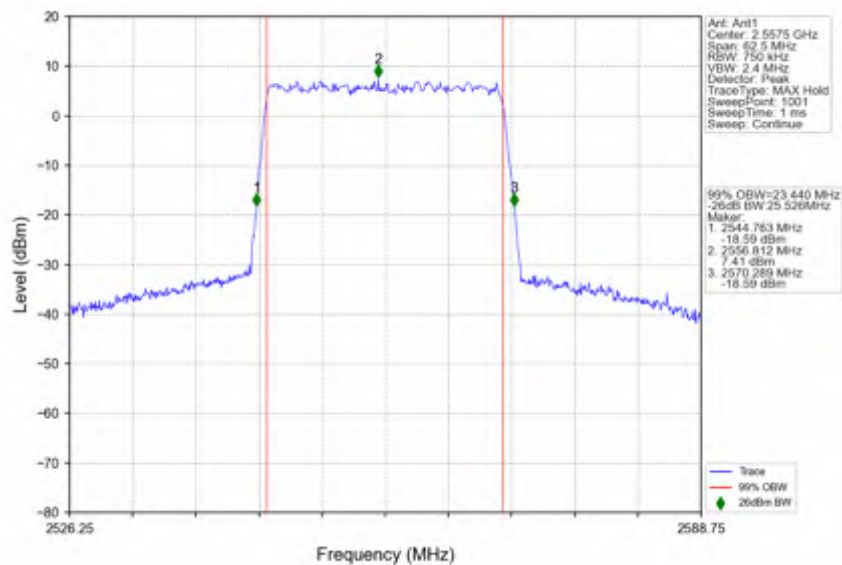
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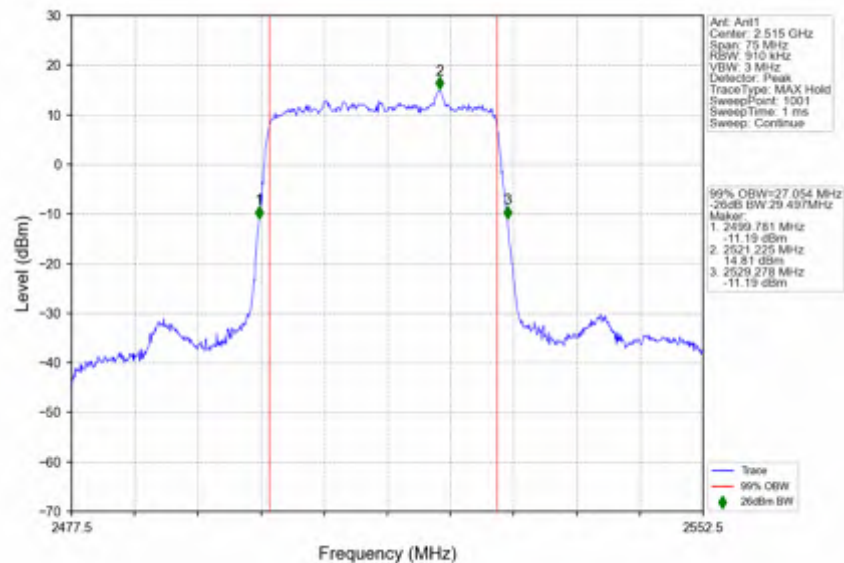
3.13 30k_SISO_30MHz_NTNV

3.13.1 Test Result

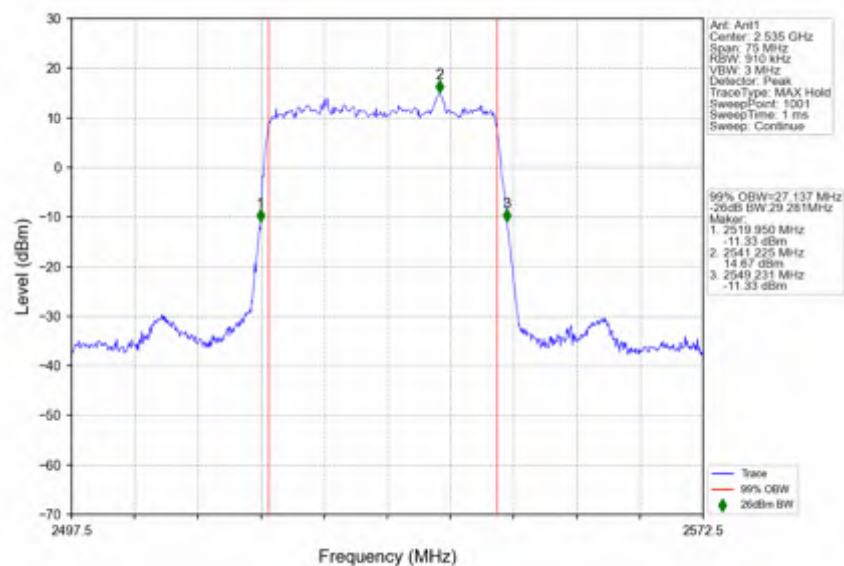
5G NR n7 SCS=30kHz SISO 30MHz NTV						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	2515	Outer_Full	27.05	29.50	/	Pass
	2535	Outer_Full	27.14	29.28	/	Pass
	2555	Outer_Full	27.09	29.59	/	Pass
DFT-s-OFDM QPSK	2515	Outer_Full	27.12	29.57	/	Pass
	2535	Outer_Full	27.30	29.88	/	Pass
	2555	Outer_Full	27.29	29.86	/	Pass
DFT-s-OFDM 16 QAM	2515	Outer_Full	26.99	29.50	/	Pass
	2535	Outer_Full	27.12	29.83	/	Pass
	2555	Outer_Full	27.02	29.57	/	Pass
DFT-s-OFDM 64 QAM	2515	Outer_Full	27.09	29.70	/	Pass
	2535	Outer_Full	27.12	29.69	/	Pass
	2555	Outer_Full	27.11	29.70	/	Pass
DFT-s-OFDM 256 QAM	2515	Outer_Full	27.03	30.22	/	Pass
	2535	Outer_Full	27.11	29.75	/	Pass
	2555	Outer_Full	27.08	29.41	/	Pass
CP-OFDM QPSK	2515	Outer_Full	28.07	30.53	/	Pass
	2535	Outer_Full	28.09	30.50	/	Pass
	2555	Outer_Full	28.07	30.46	/	Pass
CP-OFDM 16 QAM	2515	Outer_Full	27.97	30.32	/	Pass
	2535	Outer_Full	28.05	30.45	/	Pass
	2555	Outer_Full	27.98	30.45	/	Pass
CP-OFDM 64 QAM	2515	Outer_Full	28.02	30.49	/	Pass
	2535	Outer_Full	28.04	30.54	/	Pass
	2555	Outer_Full	28.04	30.41	/	Pass
CP-OFDM 256 QAM	2515	Outer_Full	28.05	30.50	/	Pass
	2535	Outer_Full	28.16	30.47	/	Pass
	2555	Outer_Full	28.12	30.44	/	Pass

3.13.2 Test Graph

n7_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM PI/2 BPSK_2515MHz_Outer_Full



n7_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM PI/2 BPSK_2535MHz_Outer_Full



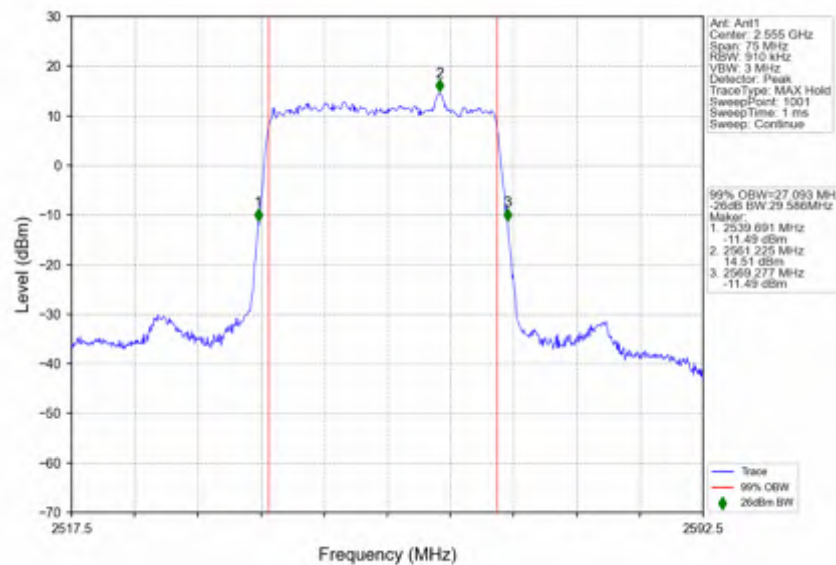
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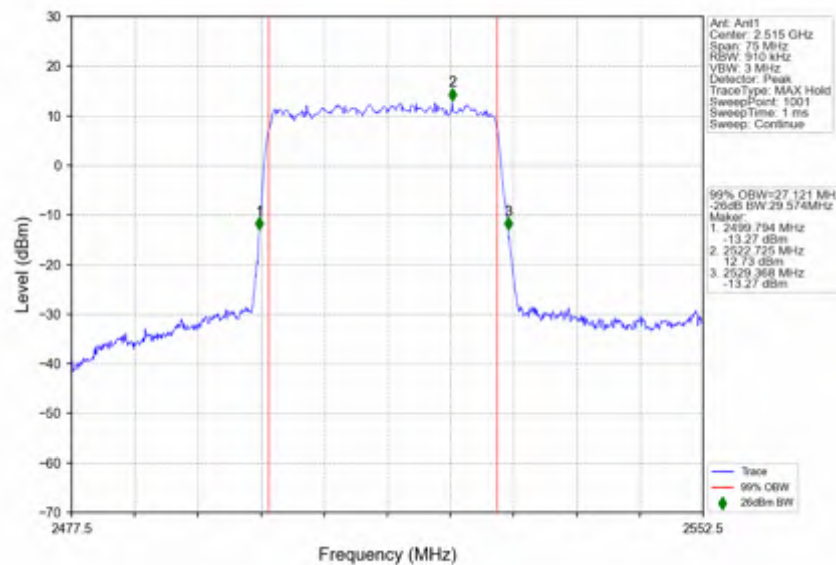
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n7_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM QPSK_2515MHz_Outer_Full



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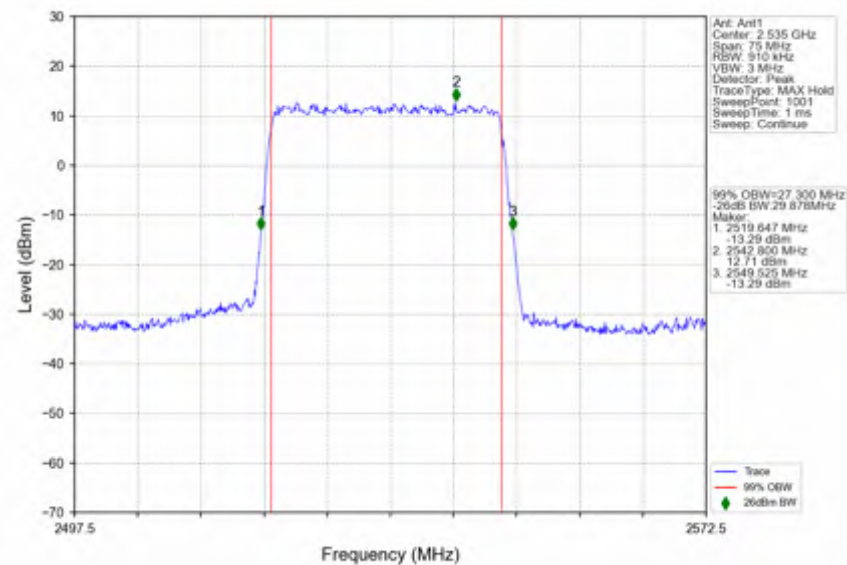
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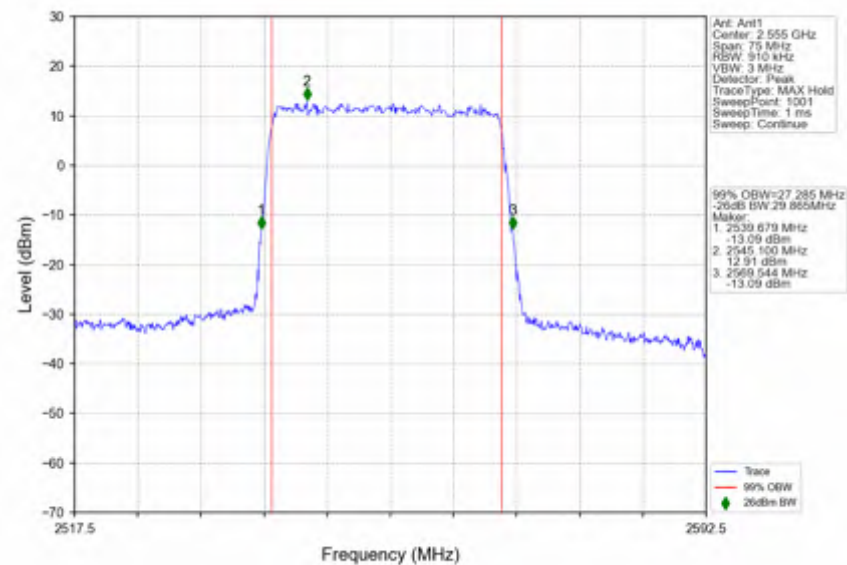
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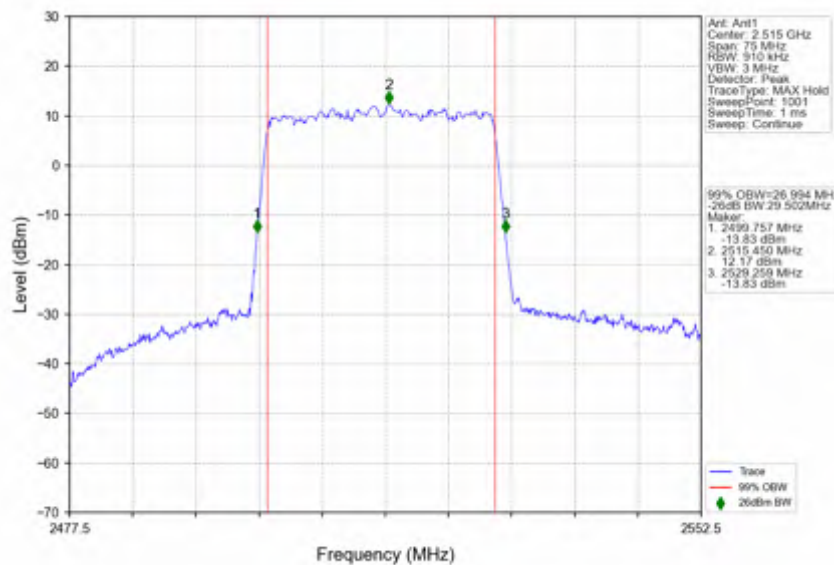
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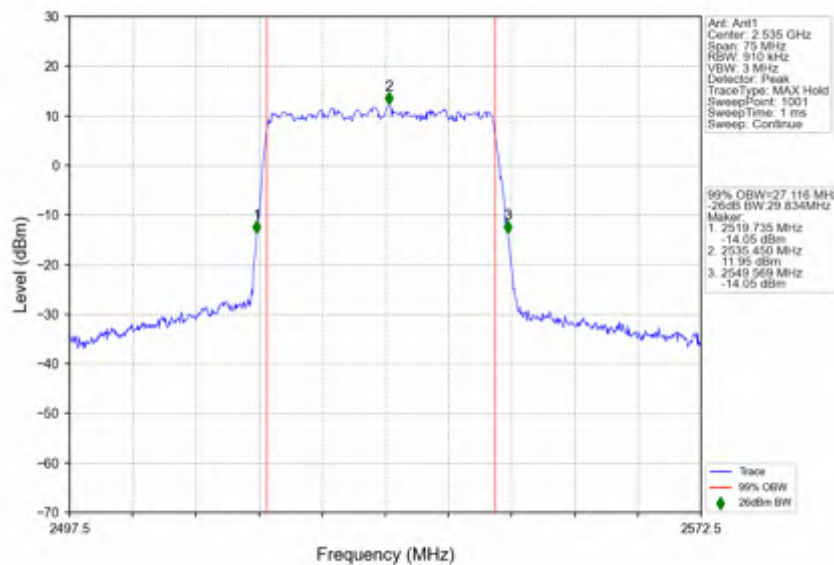
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n7 30kHz SISO NTNv 30MHz DFT-s-OFDM 16 QAM 2535MHz Outer Full

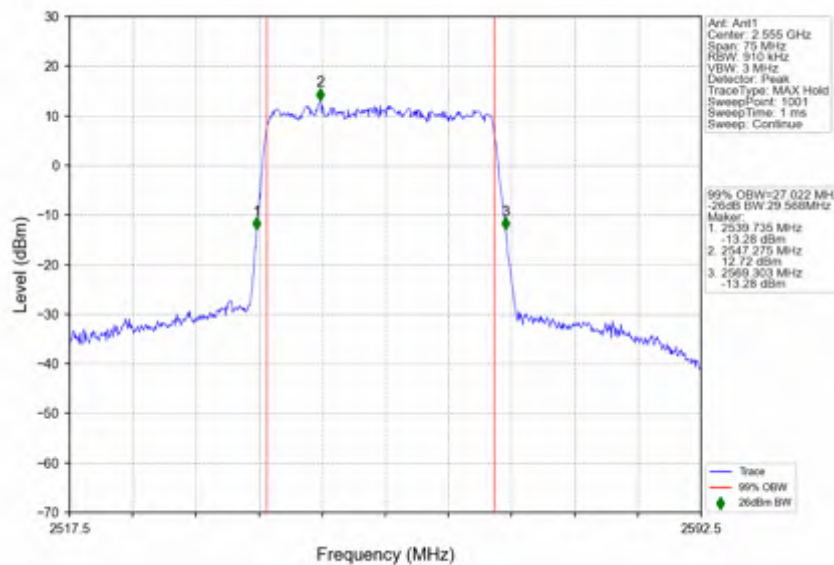


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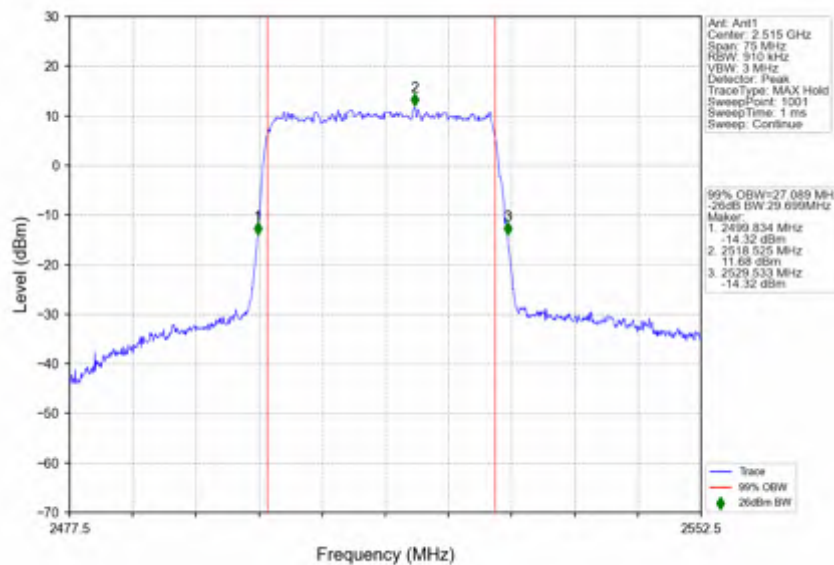
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n7 30kHz SISO NTNv 30MHz DFT-s-OFDM 16 QAM 2555MHz Outer Full



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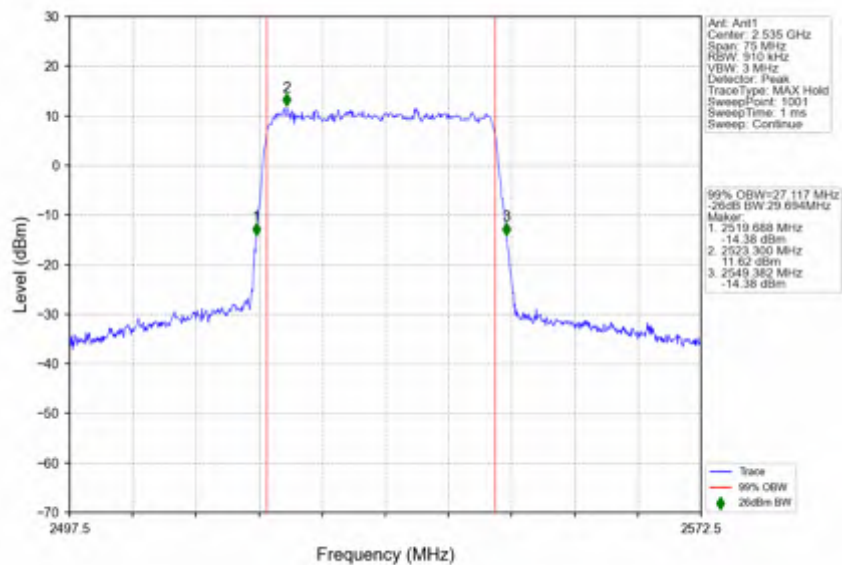


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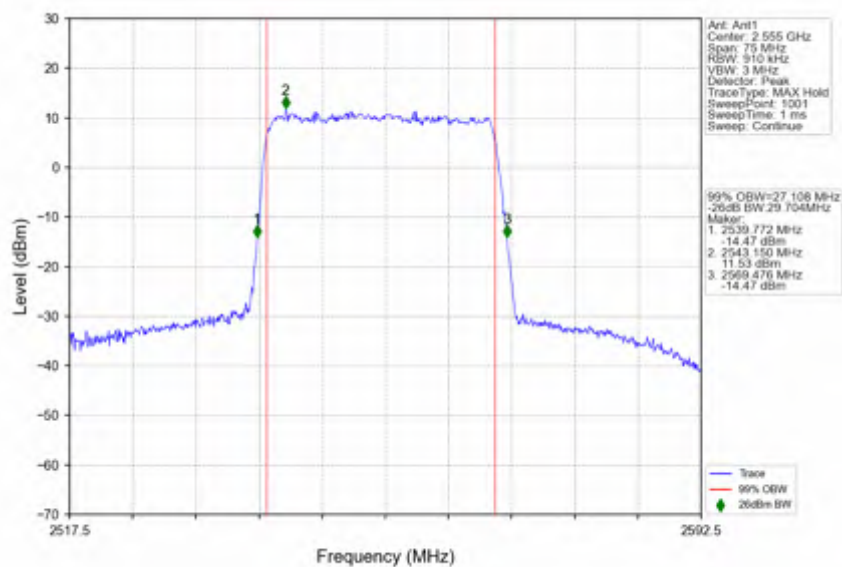
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n7 30kHz SISO NTNv 30MHz DFT-s-OFDM 64 QAM 2535MHz Outer Full



n7 30kHz SISO NTNv 30MHz DFT-s-OFDM 64 QAM 2555MHz Outer Full

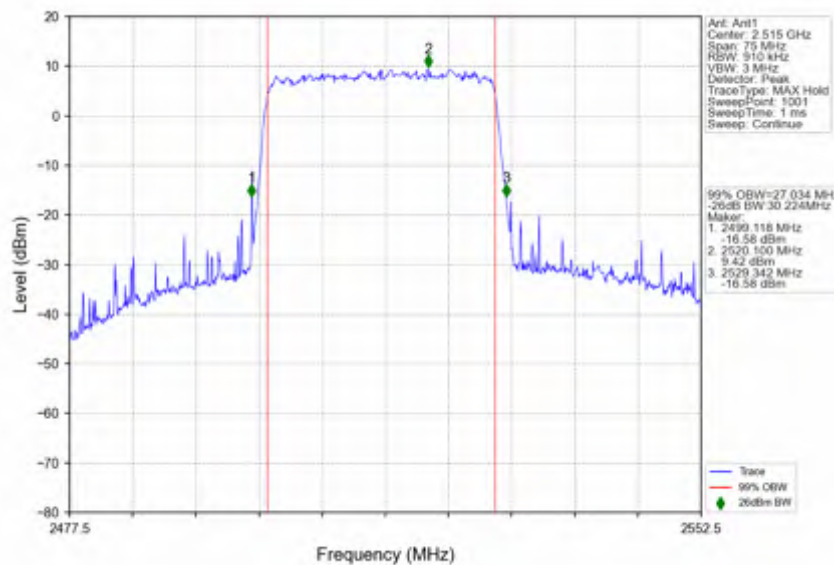


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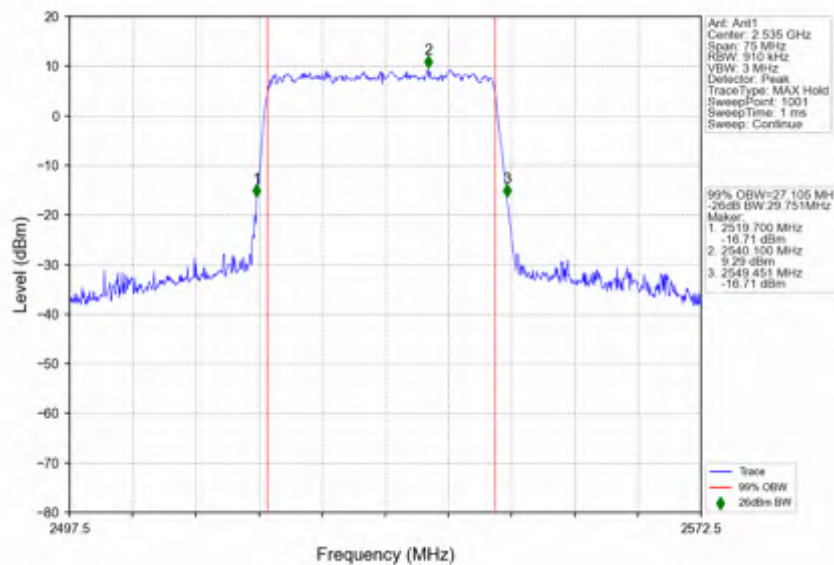
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n7 30kHz SISO NTV 30MHz DFT-s-OFDM 256 QAM 2515MHz Outer Full



n7 30kHz SISO NTNv 30MHz DFT-s-OFDM 256 QAM 2535MHz Outer Full

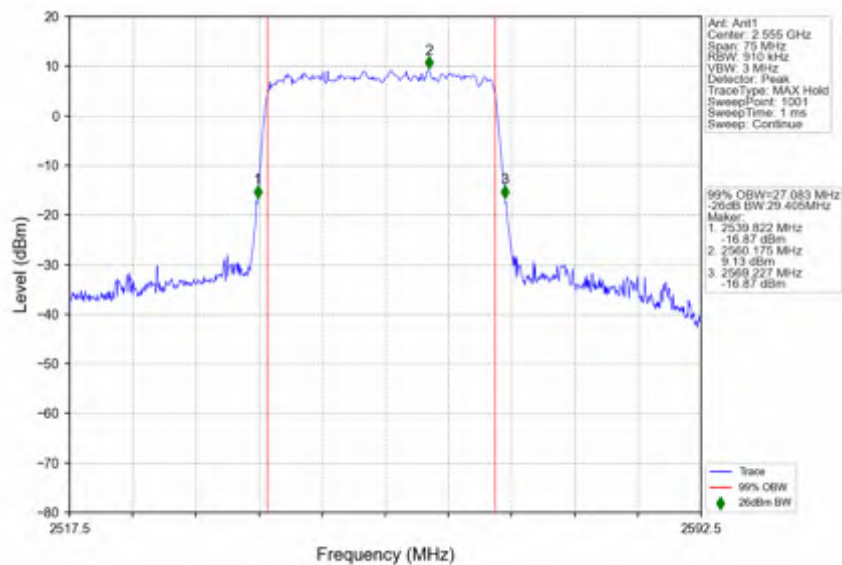


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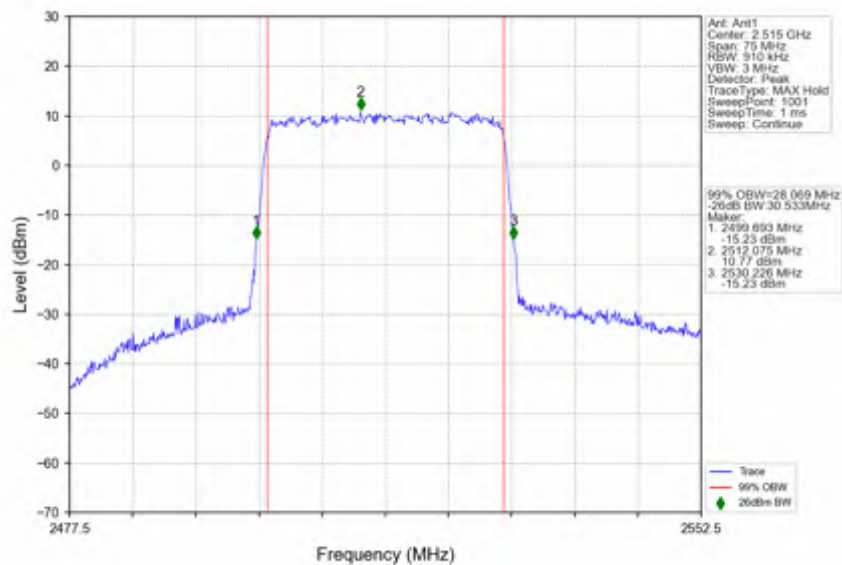
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n7_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM_256_QAM_2555MHz_Outer_Full



n7_30kHz_SISO_NTNV_30MHz_CP-OFDM_QPSK_2515MHz_Outer_Full



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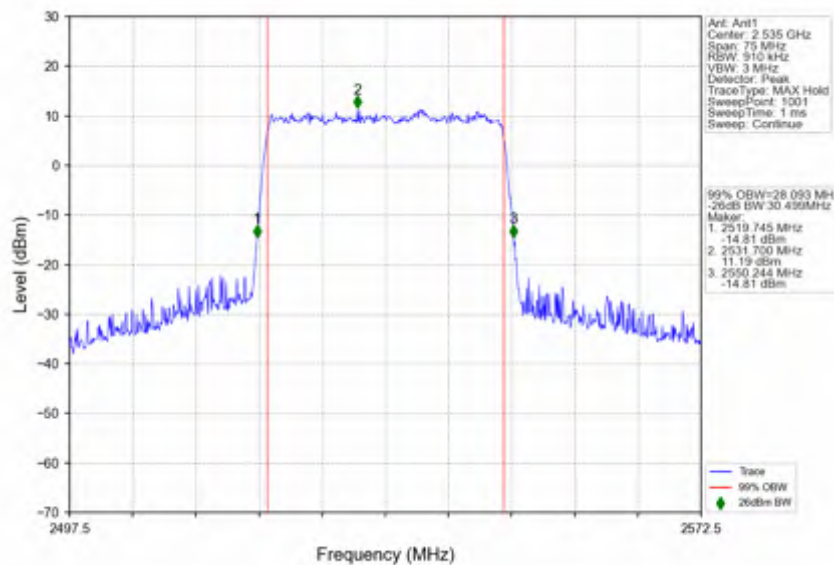
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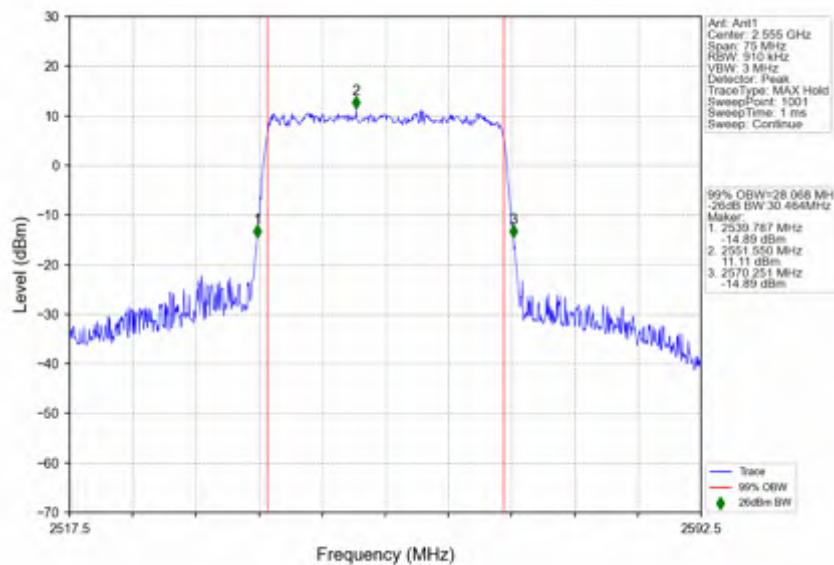
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n7_30kHz_SISO_NTNV_30MHz_CP-OFDM_QPSK_2535MHz_Outer_Full



n7_30kHz_SISO_NTNV_30MHz_CP-OFDM_QPSK_2555MHz_Outer_Full



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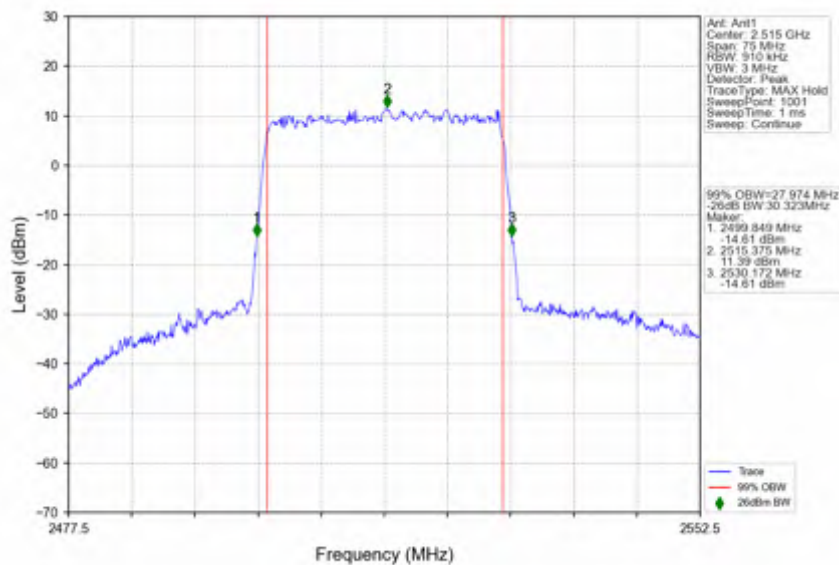
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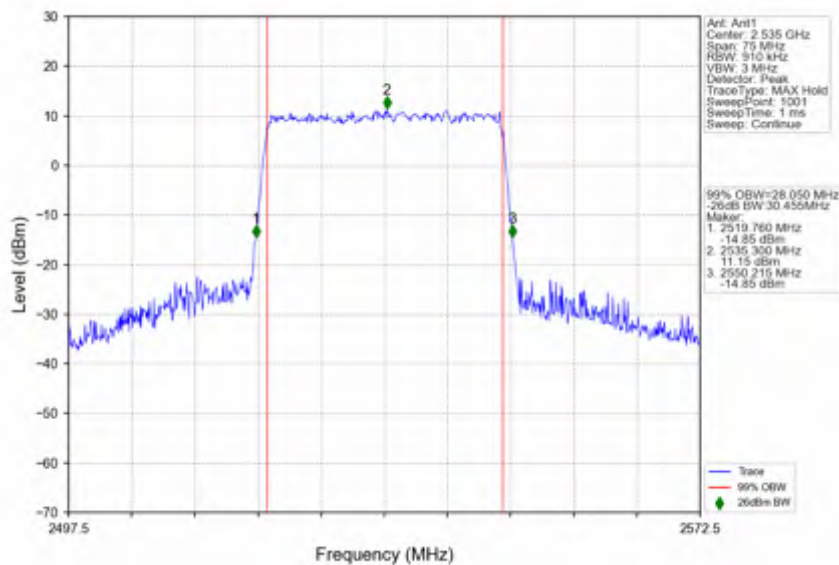
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n7_30kHz_SISO_NTNV_30MHz_CP-OFDM_16_QAM_2515MHz_Outer_Full



n7_30kHz_SISO_NTNV_30MHz_CP-OFDM_16_QAM_2535MHz_Outer_Full



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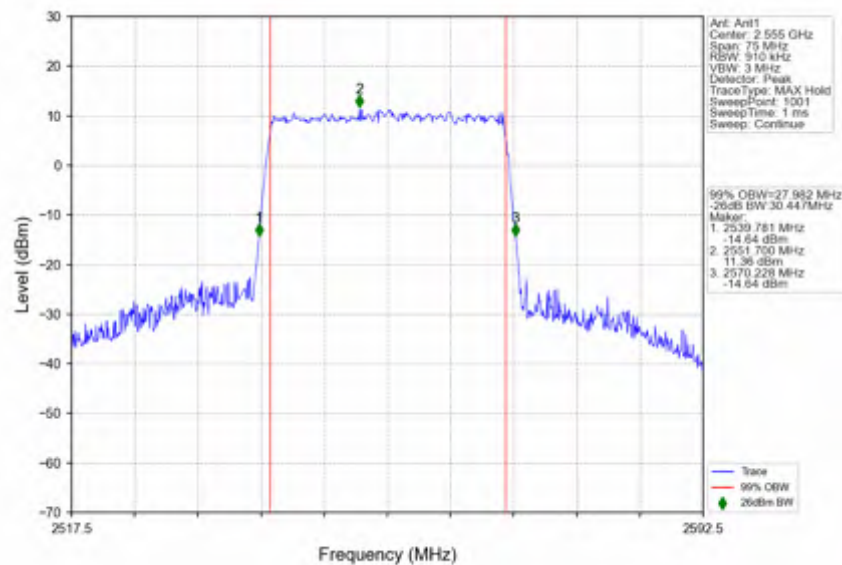
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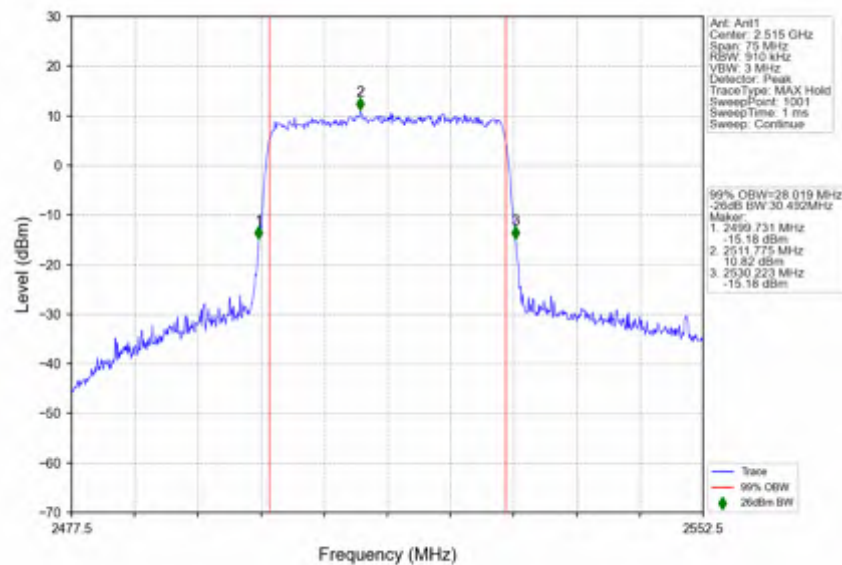
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n7_30kHz_SISO_NTNV_30MHz_CP-OFDM 16 QAM_2555MHz_Outer_Full



n7_30kHz_SISO_NTNV_30MHz_CP-OFDM 64 QAM_2515MHz_Outer_Full



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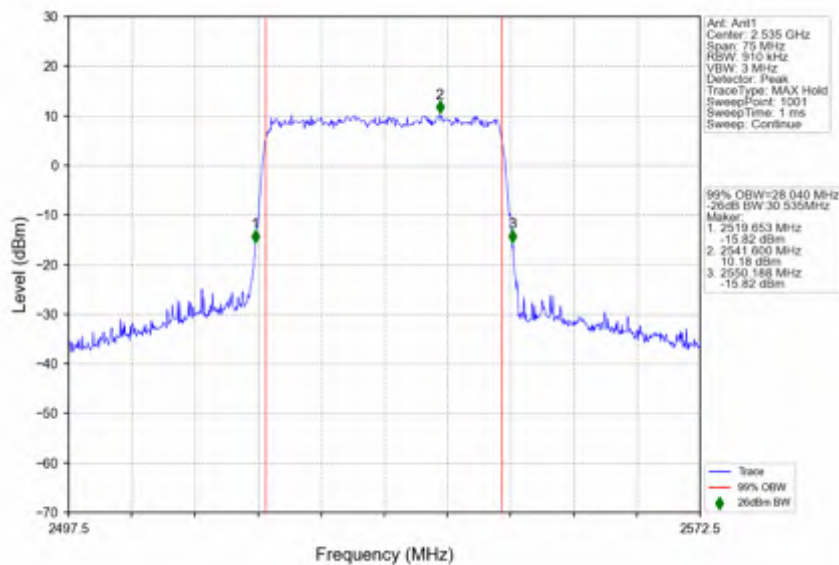
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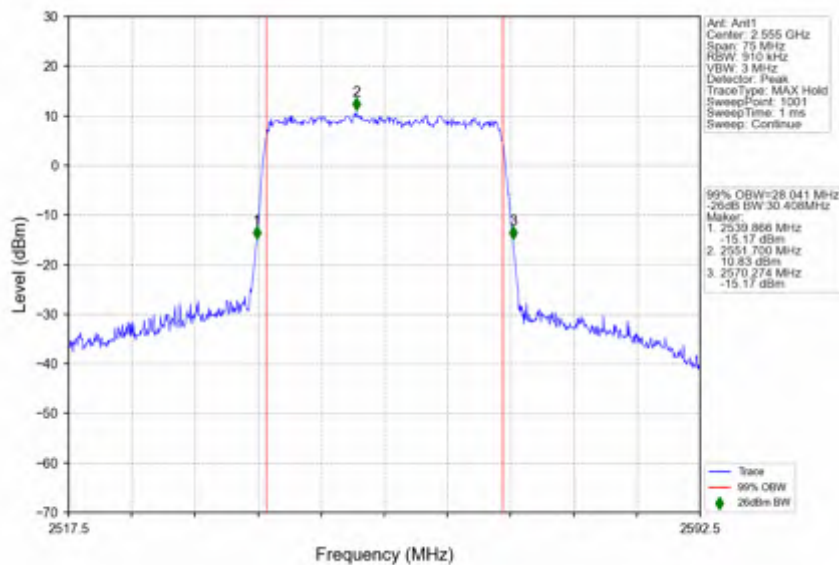
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n7_30kHz_SISO_NTNV_30MHz_CP-OFDM 64 QAM_2535MHz_Outer_Full



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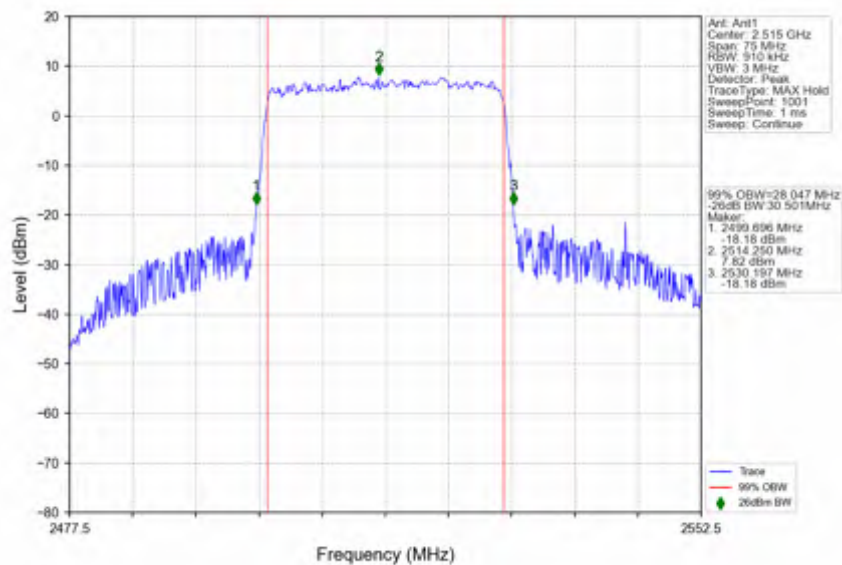
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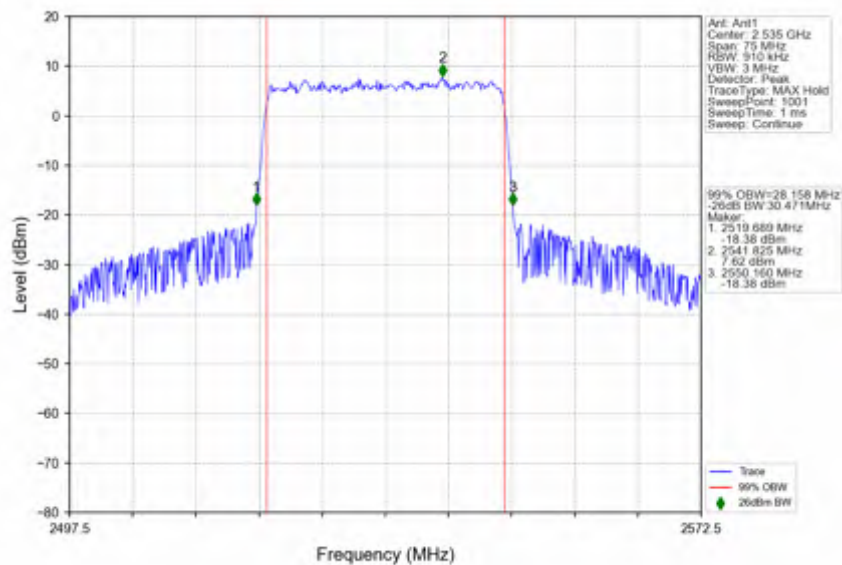
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n7 30kHz SISO NTV 30MHz CP-OFDM 256 QAM 2535MHz Outer Full

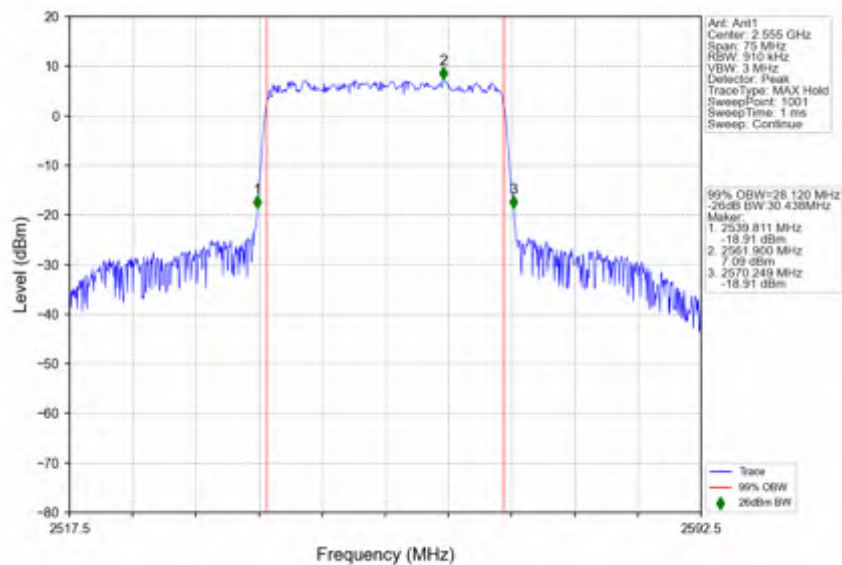


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n7_30kHz_SISO_NTNV_30MHz_CP-OFDM_256_QAM_2555MHz_Outer_Full



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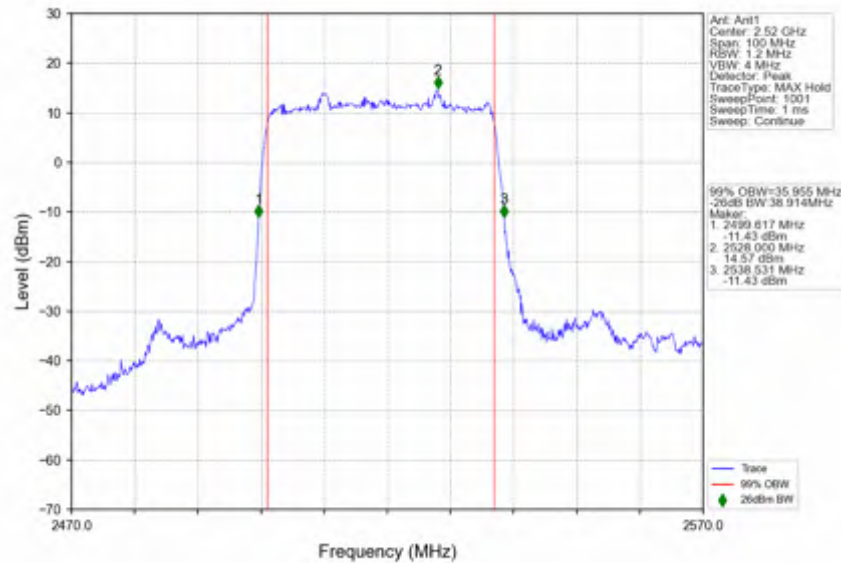
3.14 30k_SISO_40MHz_NTNV

3.14.1 Test Result

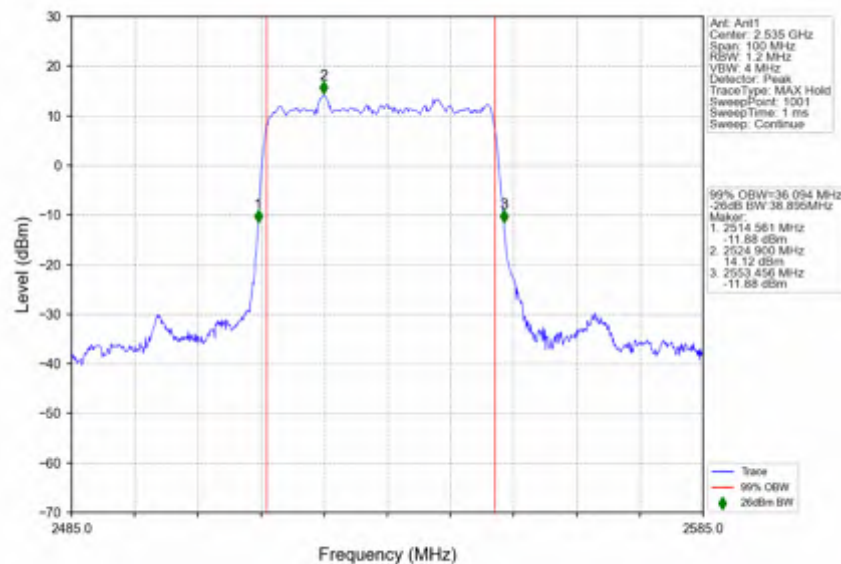
5G NR n7 SCS=30kHz SISO 40MHz NTVN						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	2520	Outer_Full	35.95	38.91	/	Pass
	2535	Outer_Full	36.09	38.90	/	Pass
	2550	Outer_Full	36.03	38.85	/	Pass
DFT-s-OFDM QPSK	2520	Outer_Full	35.99	38.85	/	Pass
	2535	Outer_Full	35.99	39.05	/	Pass
	2550	Outer_Full	36.07	38.90	/	Pass
DFT-s-OFDM 16 QAM	2520	Outer_Full	35.95	38.76	/	Pass
	2535	Outer_Full	36.05	38.79	/	Pass
	2550	Outer_Full	35.95	38.70	/	Pass
DFT-s-OFDM 64 QAM	2520	Outer_Full	35.91	39.20	/	Pass
	2535	Outer_Full	36.00	39.30	/	Pass
	2550	Outer_Full	36.01	39.11	/	Pass
DFT-s-OFDM 256 QAM	2520	Outer_Full	35.94	38.90	/	Pass
	2535	Outer_Full	36.07	38.79	/	Pass
	2550	Outer_Full	35.97	38.72	/	Pass
CP-OFDM QPSK	2520	Outer_Full	38.01	40.94	/	Pass
	2535	Outer_Full	38.15	41.00	/	Pass
	2550	Outer_Full	38.05	41.03	/	Pass
CP-OFDM 16 QAM	2520	Outer_Full	38.00	40.90	/	Pass
	2535	Outer_Full	38.13	40.90	/	Pass
	2550	Outer_Full	38.09	40.95	/	Pass
CP-OFDM 64 QAM	2520	Outer_Full	38.00	40.94	/	Pass
	2535	Outer_Full	38.09	40.99	/	Pass
	2550	Outer_Full	38.03	40.92	/	Pass
CP-OFDM 256 QAM	2520	Outer_Full	38.10	40.98	/	Pass
	2535	Outer_Full	38.10	41.15	/	Pass
	2550	Outer_Full	38.15	40.99	/	Pass

3.14.2 Test Graph

n7_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM PI/2 BPSK_2520MHz_Outer_Full



n7_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM PI/2 BPSK_2535MHz_Outer_Full



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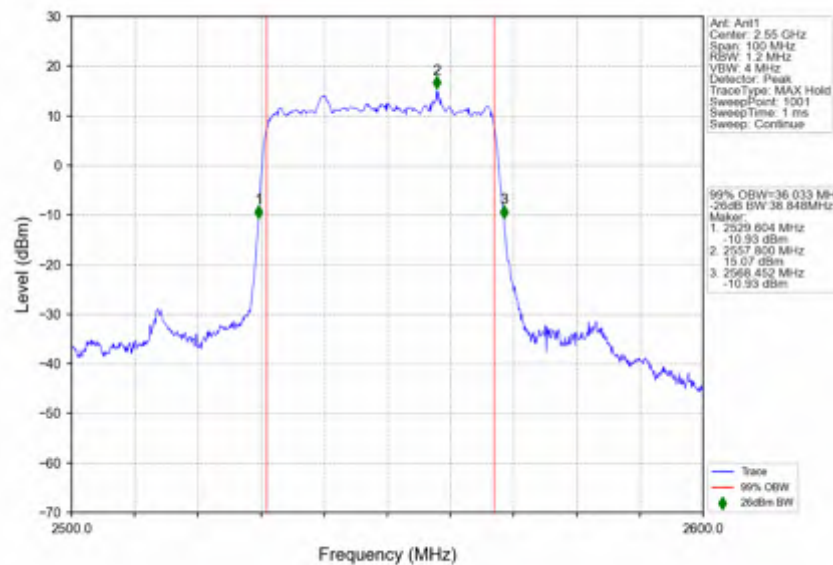
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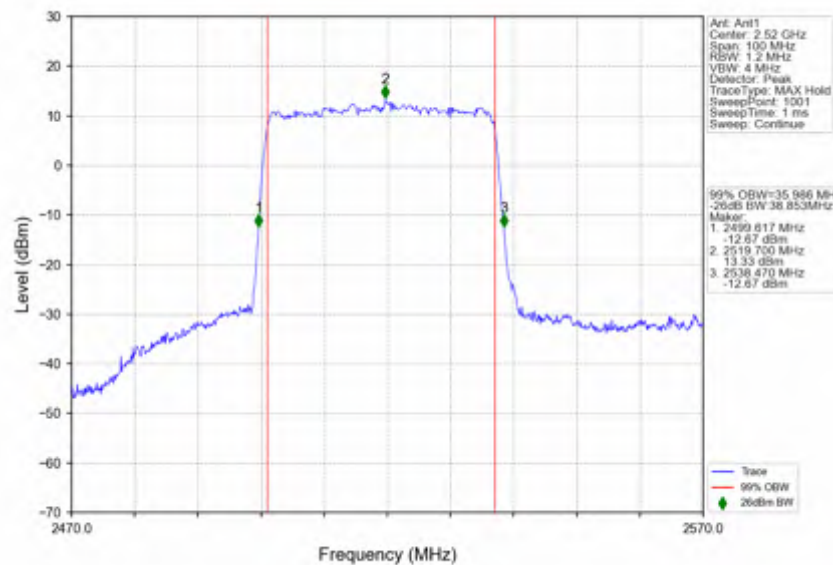
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n7_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM PI/2 BPSK_2550MHz_Outer_Full



n7_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM QPSK_2520MHz_Outer_Full



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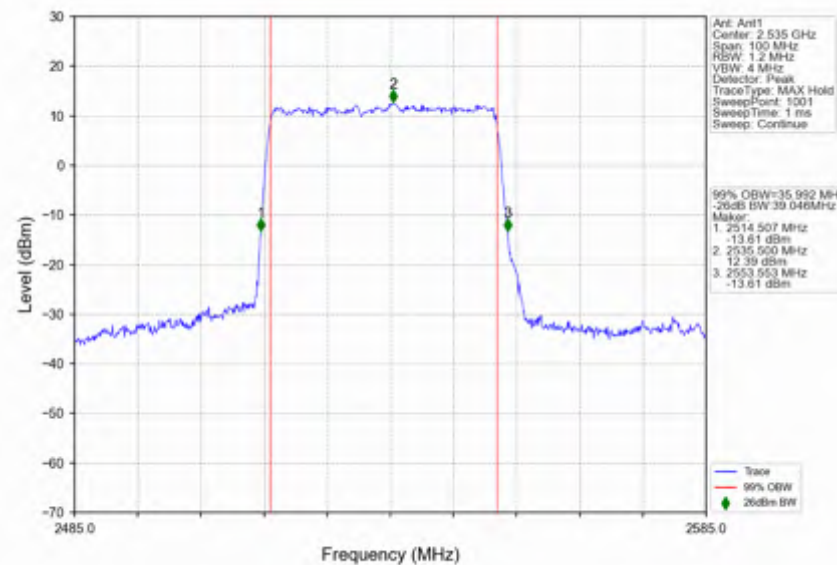
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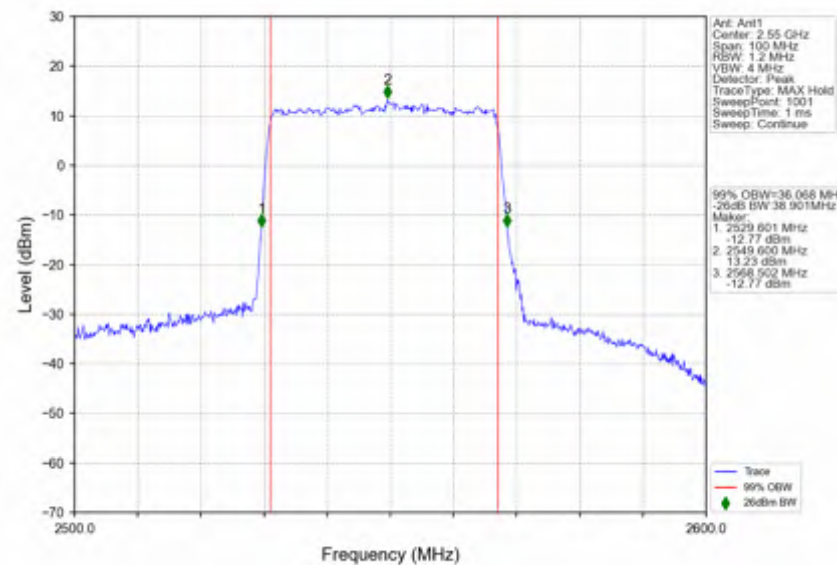
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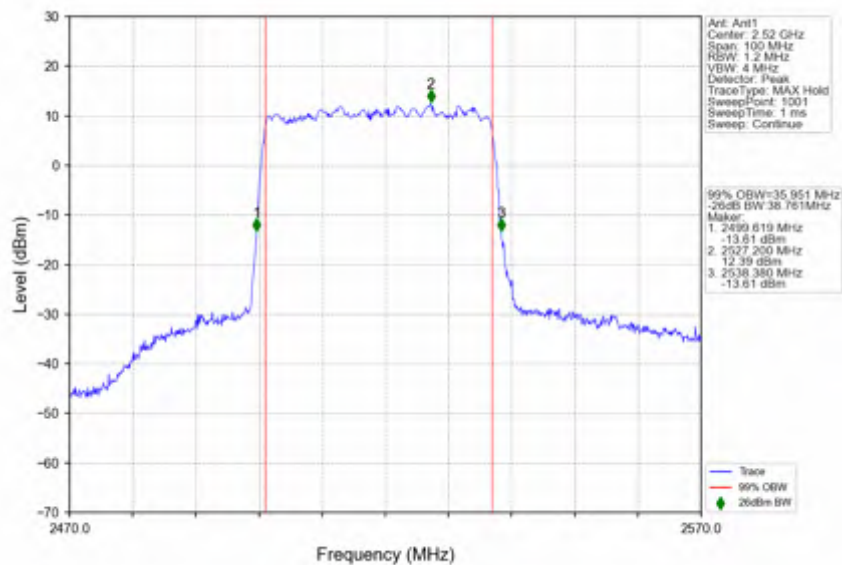
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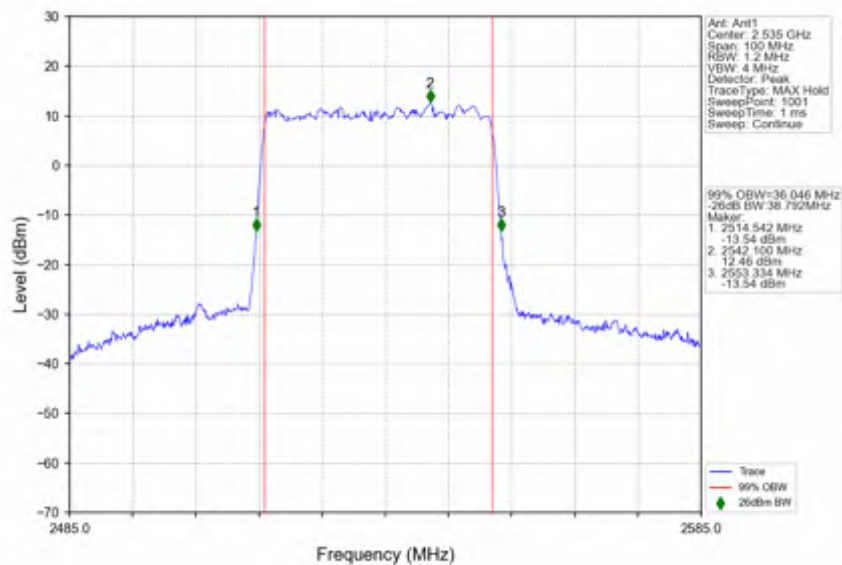
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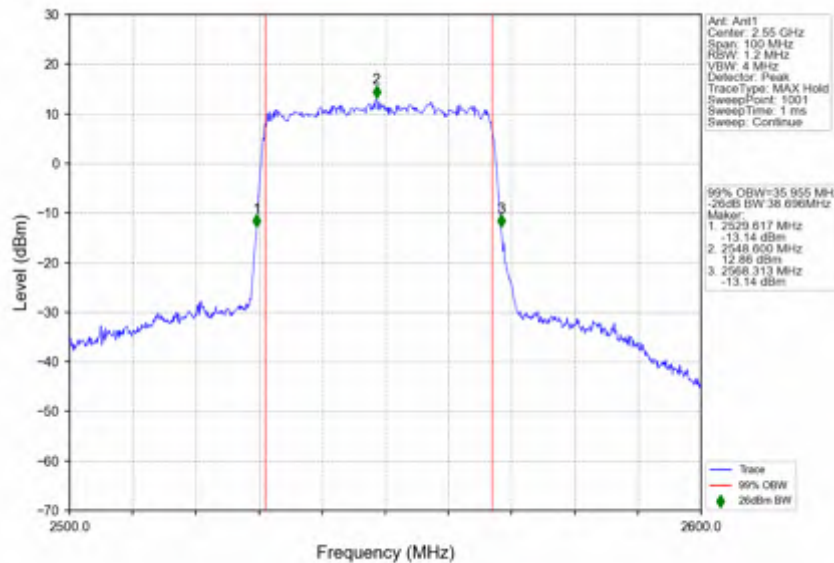
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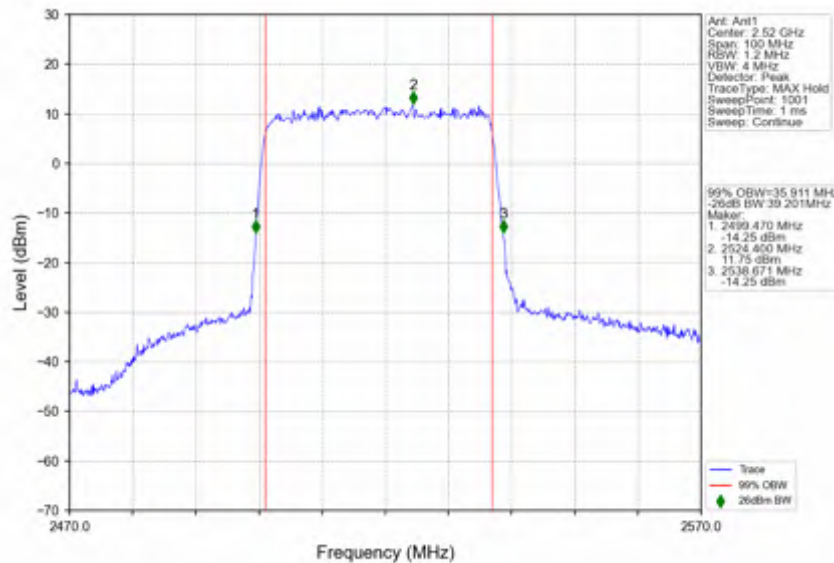
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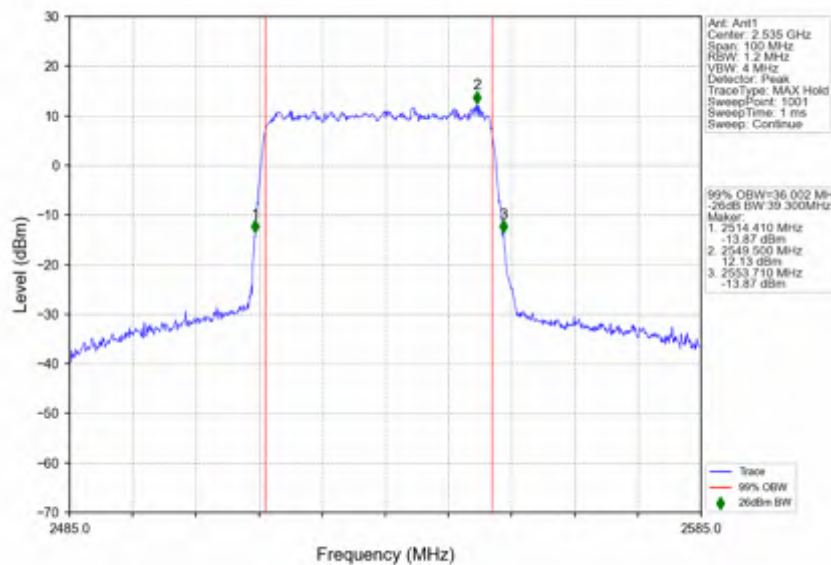


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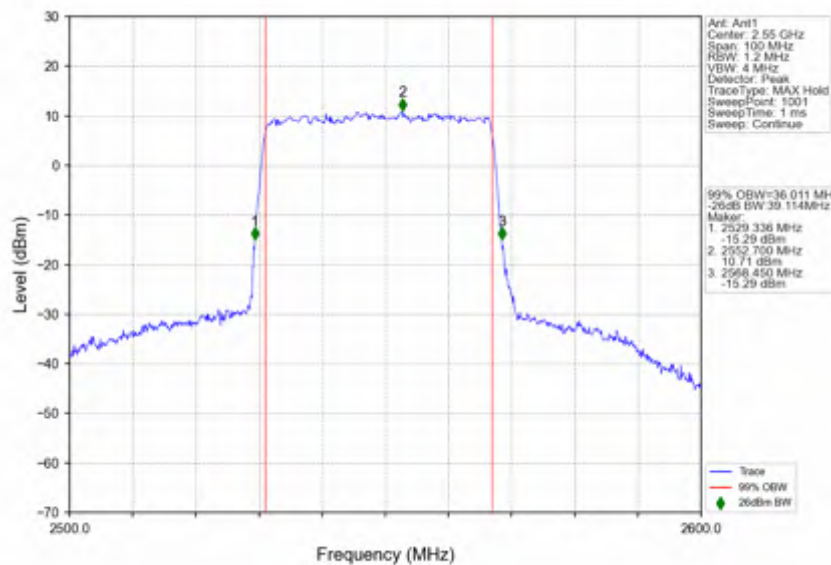
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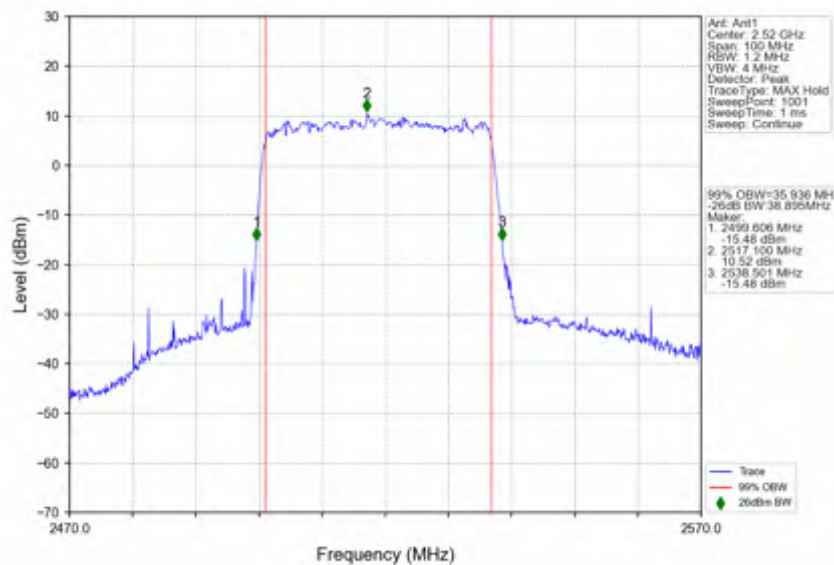
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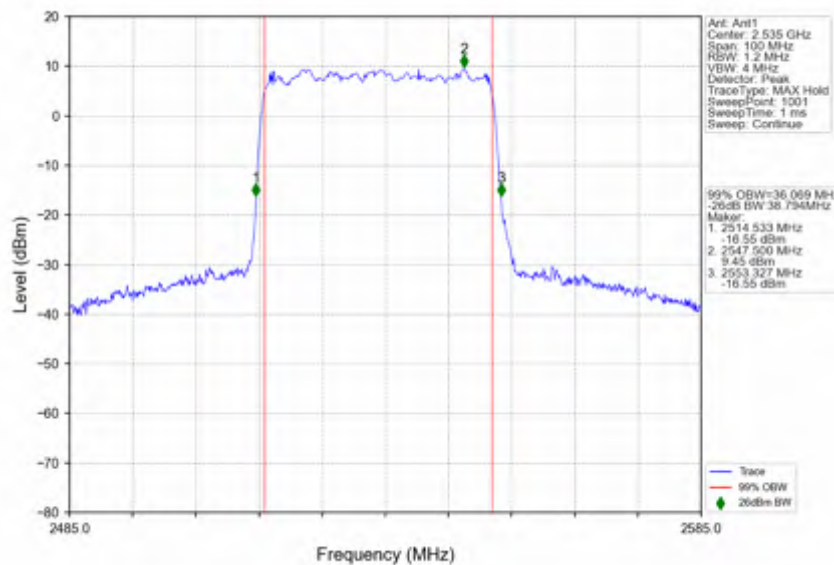
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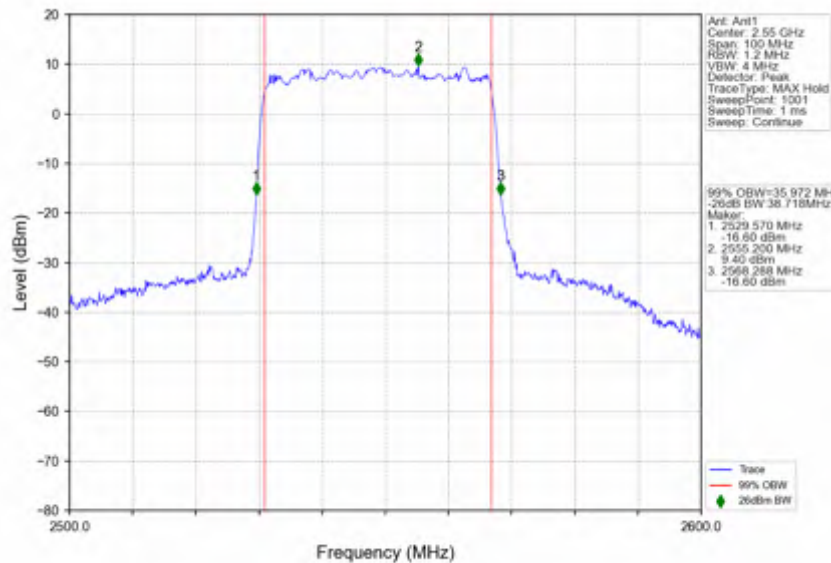
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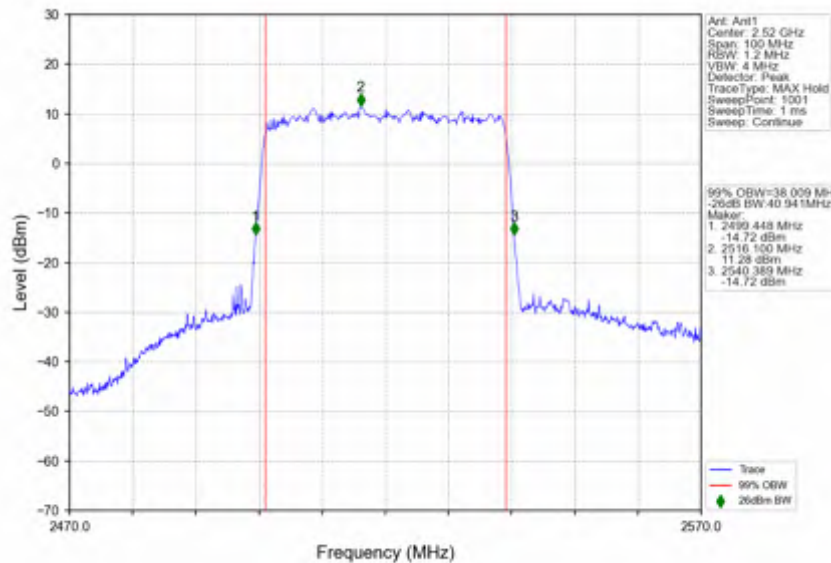
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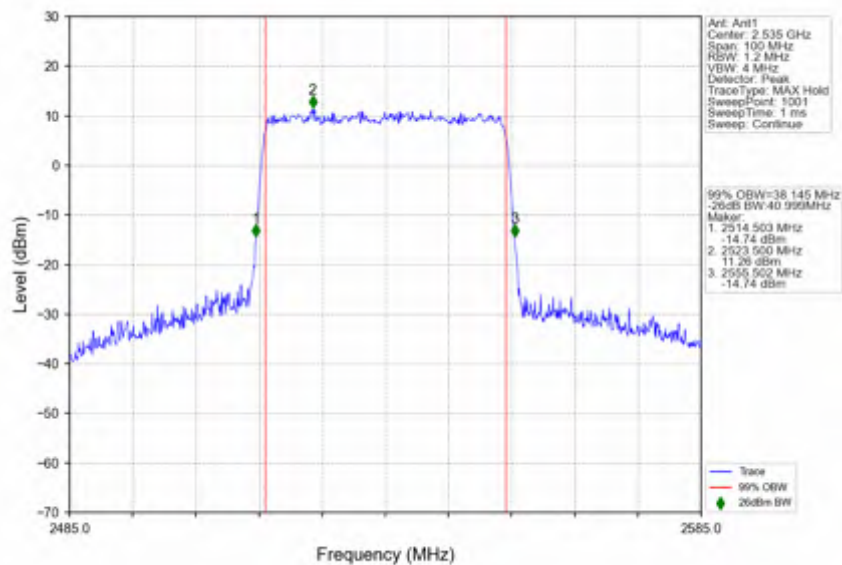
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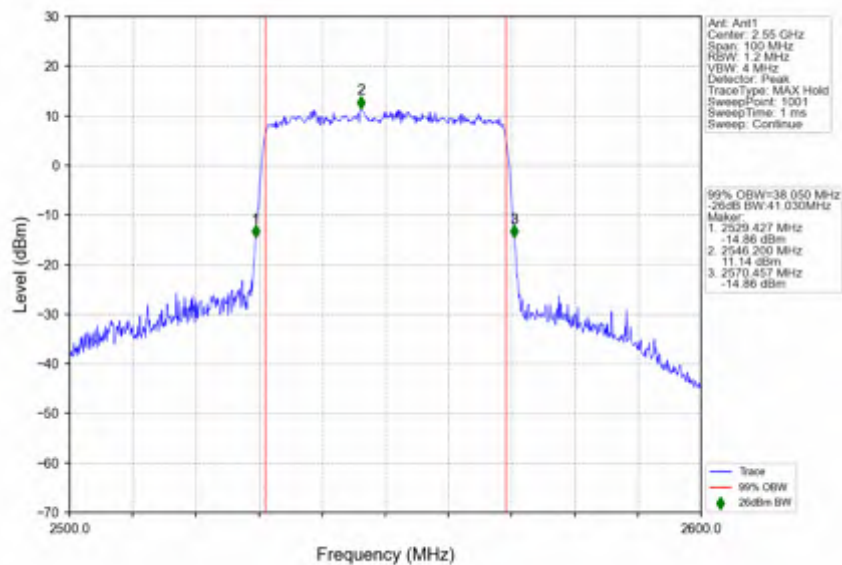
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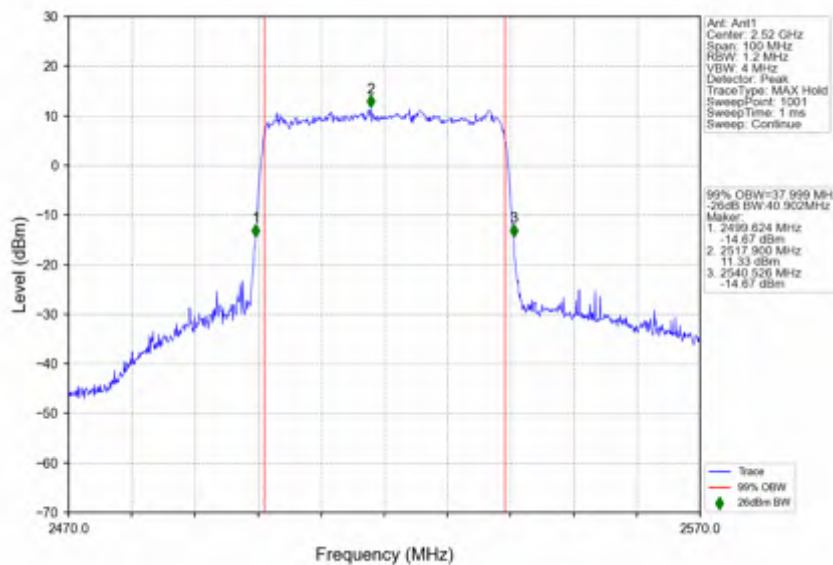
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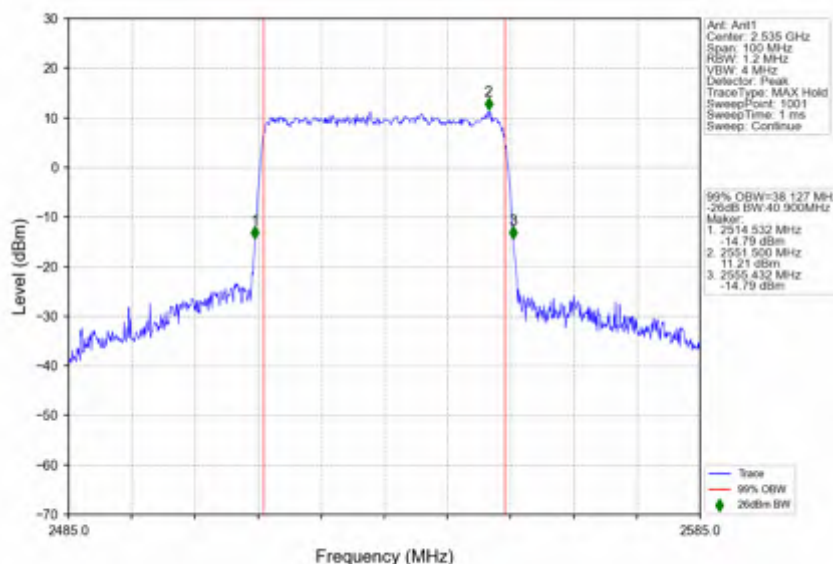
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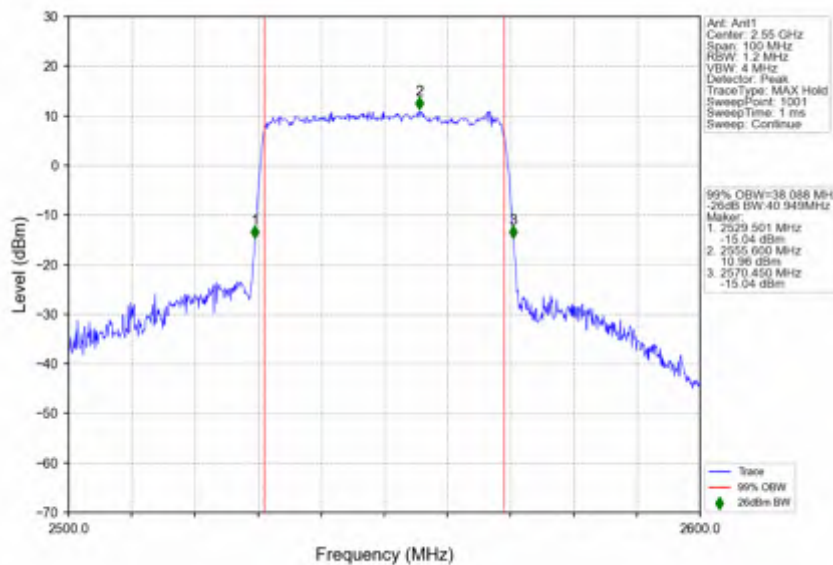
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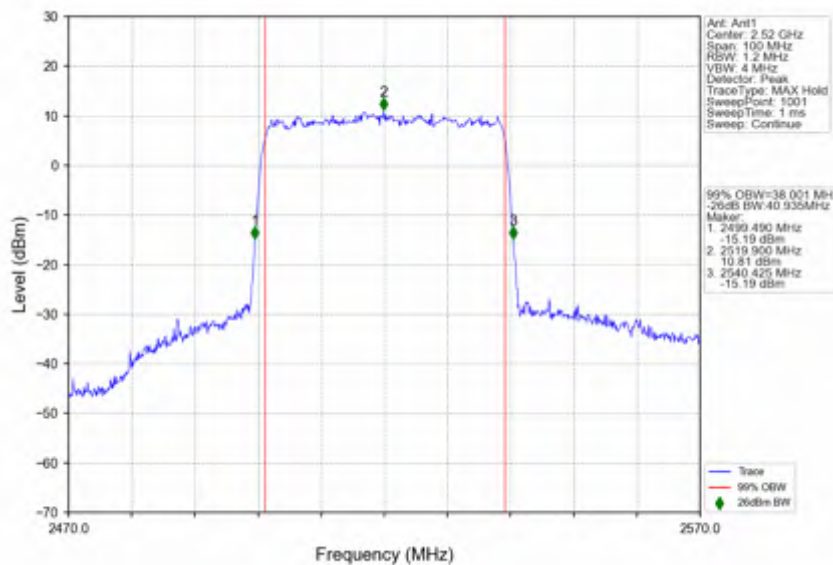
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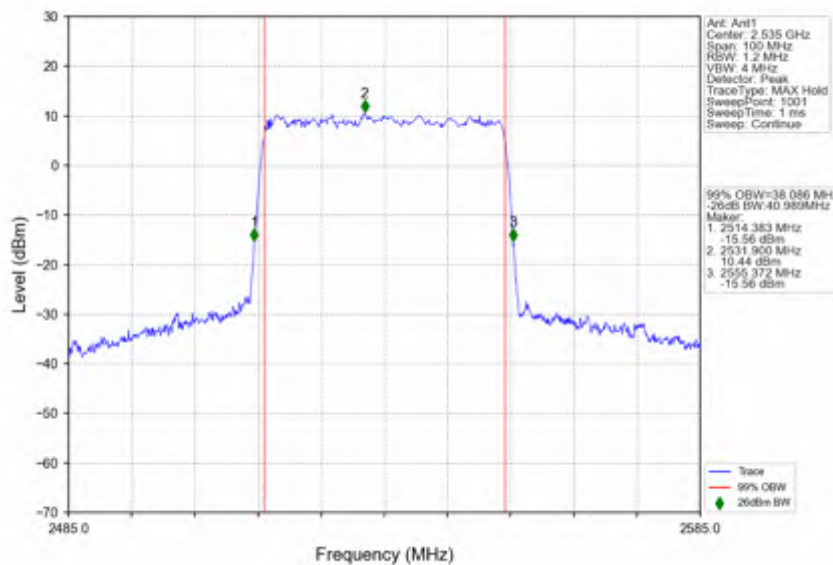
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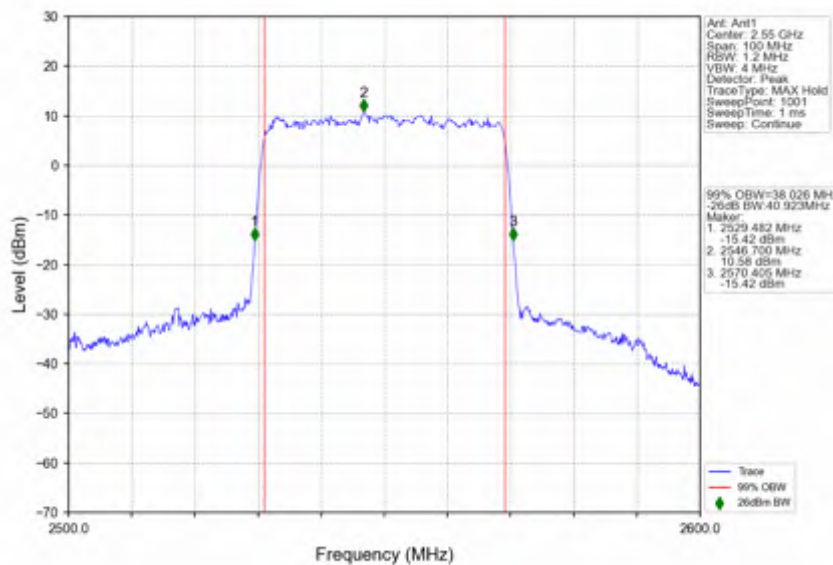
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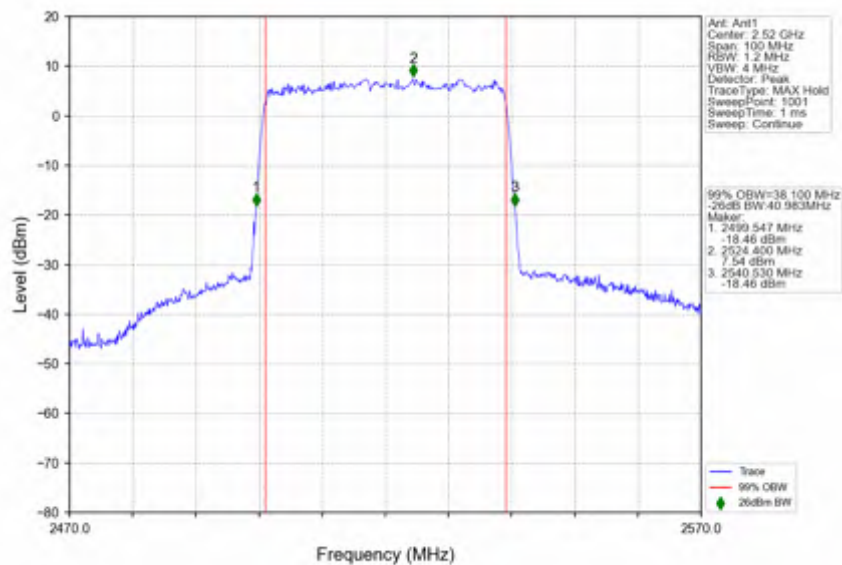
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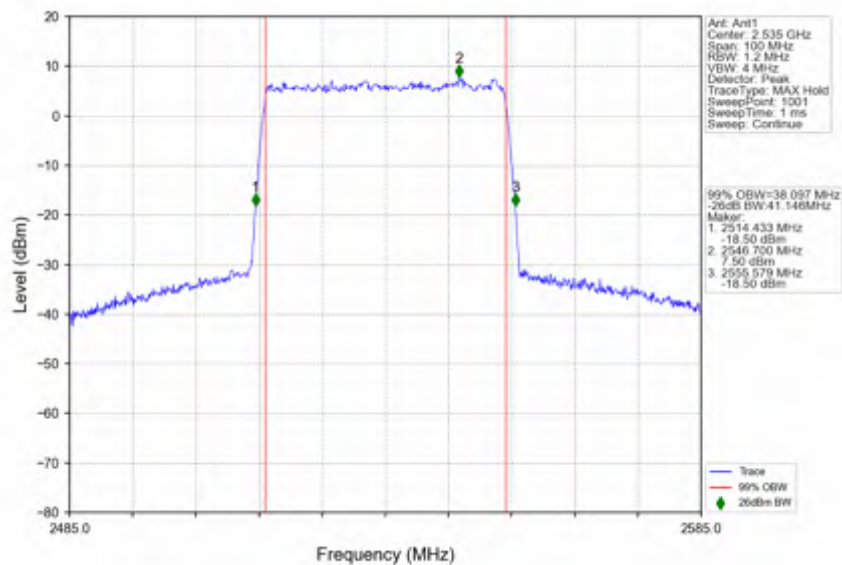
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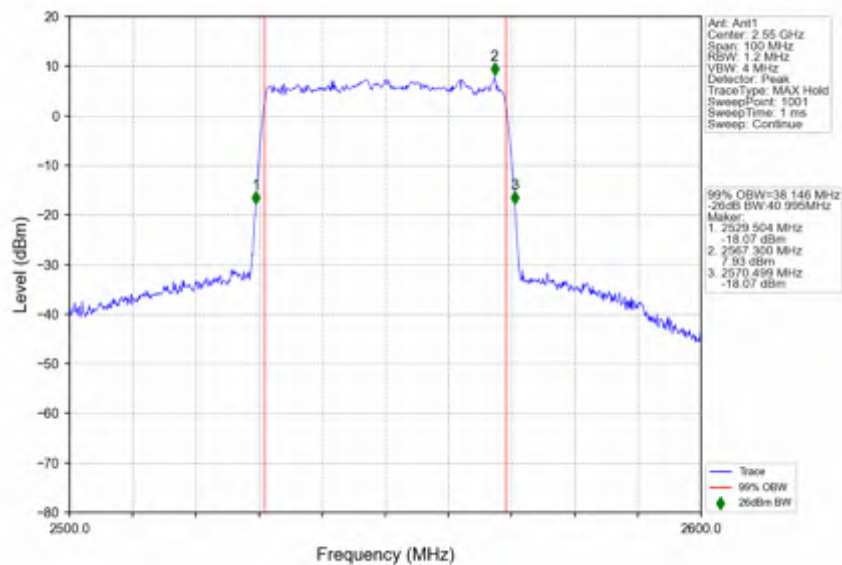


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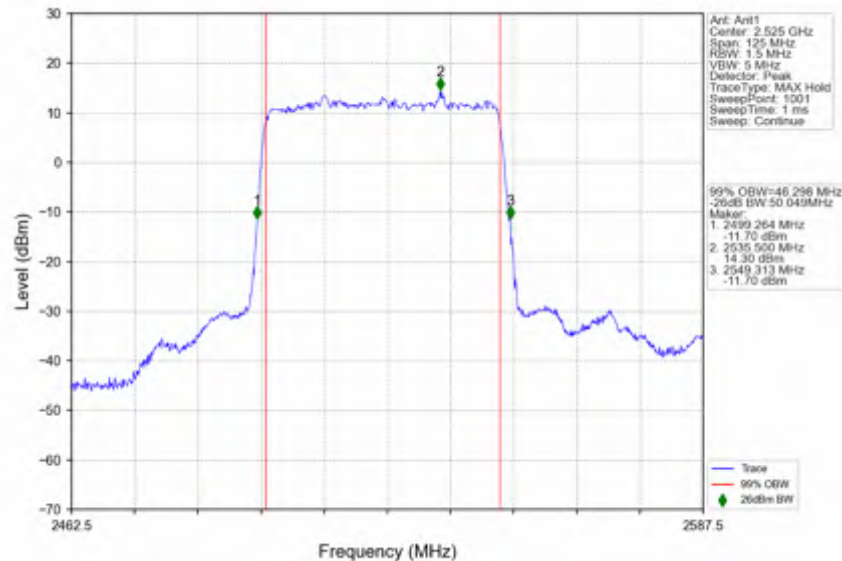
3.15 30k_SISO_50MHz_NTNV

3.15.1 Test Result

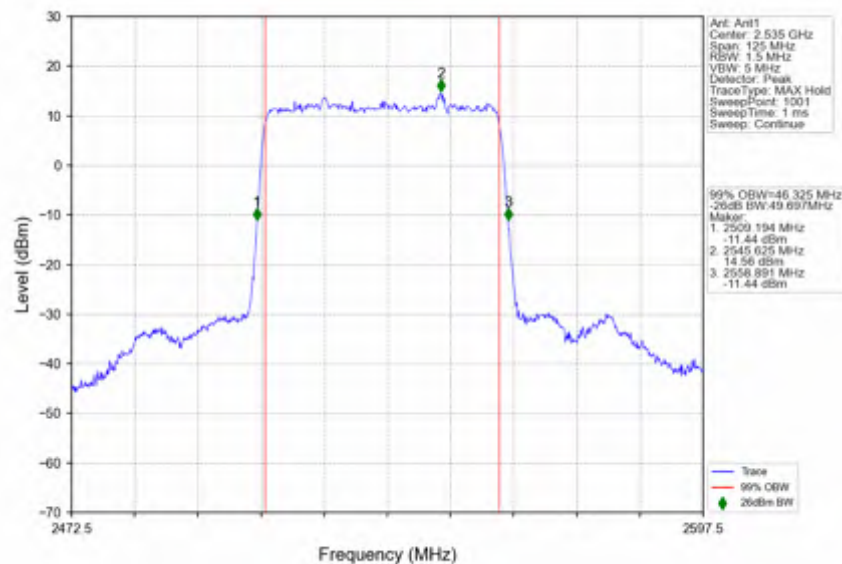
5G NR n7 SCS=30kHz SISO 50MHz NTV						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	2525	Outer_Full	46.30	50.05	/	Pass
	2535	Outer_Full	46.33	49.70	/	Pass
	2545	Outer_Full	46.32	49.98	/	Pass
DFT-s-OFDM QPSK	2525	Outer_Full	46.20	49.83	/	Pass
	2535	Outer_Full	46.27	49.96	/	Pass
	2545	Outer_Full	46.15	50.10	/	Pass
DFT-s-OFDM 16 QAM	2525	Outer_Full	46.15	50.16	/	Pass
	2535	Outer_Full	46.23	49.97	/	Pass
	2545	Outer_Full	46.26	49.88	/	Pass
DFT-s-OFDM 64 QAM	2525	Outer_Full	46.00	49.78	/	Pass
	2535	Outer_Full	46.07	50.13	/	Pass
	2545	Outer_Full	46.20	50.26	/	Pass
DFT-s-OFDM 256 QAM	2525	Outer_Full	46.22	49.88	/	Pass
	2535	Outer_Full	46.15	49.79	/	Pass
	2545	Outer_Full	46.25	49.97	/	Pass
CP-OFDM QPSK	2525	Outer_Full	47.77	51.48	/	Pass
	2535	Outer_Full	47.81	51.73	/	Pass
	2545	Outer_Full	47.86	51.41	/	Pass
CP-OFDM 16 QAM	2525	Outer_Full	48.01	51.61	/	Pass
	2535	Outer_Full	47.90	51.79	/	Pass
	2545	Outer_Full	47.89	51.59	/	Pass
CP-OFDM 64 QAM	2525	Outer_Full	47.91	51.44	/	Pass
	2535	Outer_Full	47.88	51.31	/	Pass
	2545	Outer_Full	47.96	51.46	/	Pass
CP-OFDM 256 QAM	2525	Outer_Full	47.77	51.18	/	Pass
	2535	Outer_Full	47.79	51.36	/	Pass
	2545	Outer_Full	47.75	51.45	/	Pass

3.15.2 Test Graph

n7_30kHz_SISO_NTNV_50MHz_DFT-s-OFDM PI/2 BPSK_2525MHz_Outer_Full



n7_30kHz_SISO_NTNV_50MHz_DFT-s-OFDM PI/2 BPSK_2535MHz_Outer_Full



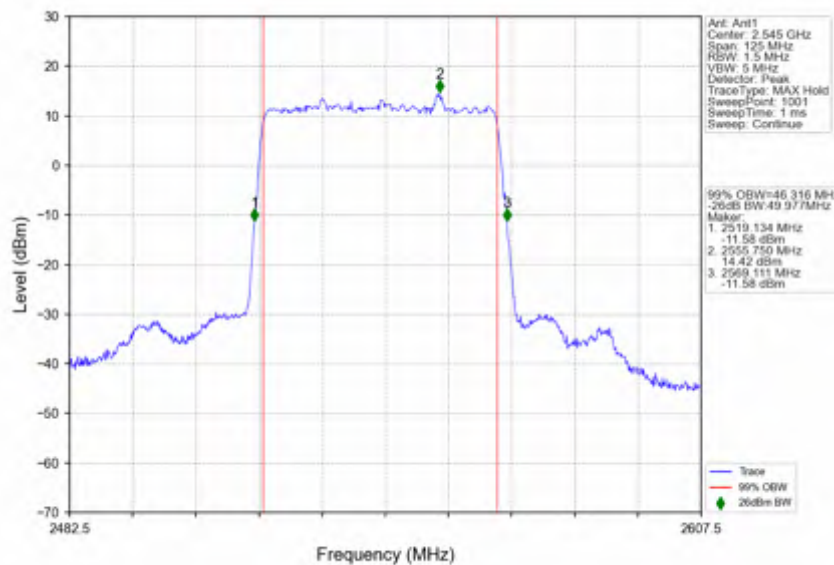
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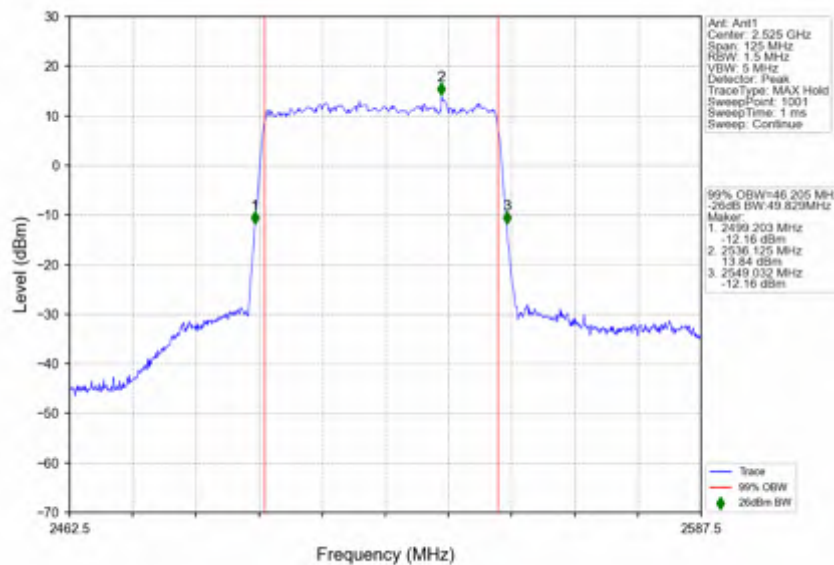
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n7_30kHz_SISO_NTNV_50MHz_DFT-s-OFDM QPSK_2525MHz_Outer_Full



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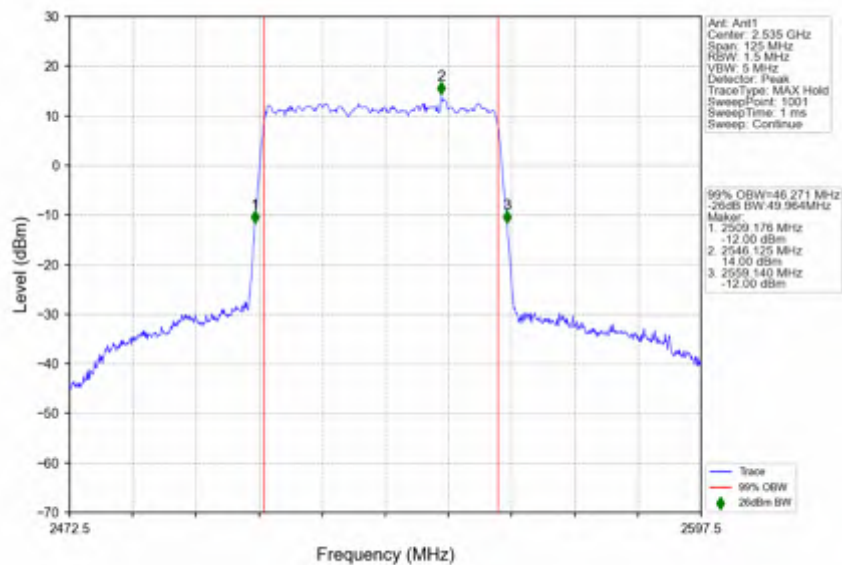
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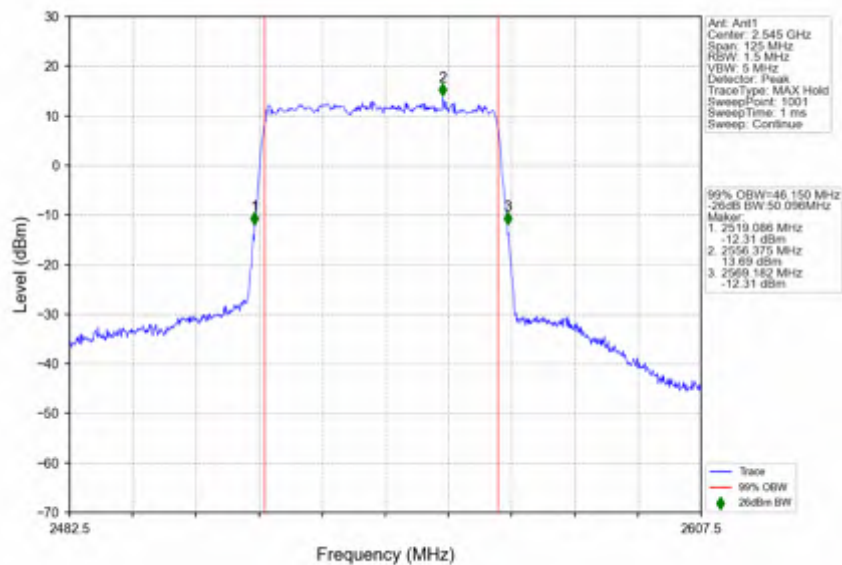
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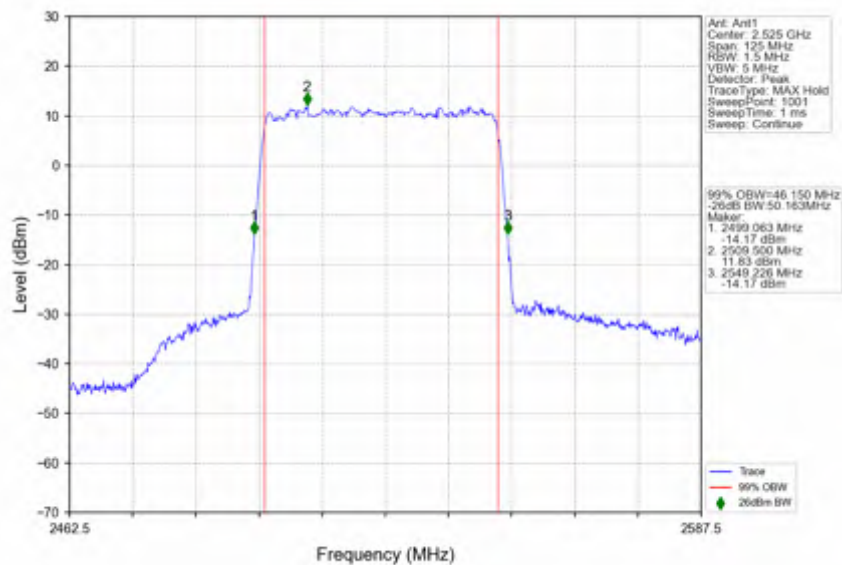


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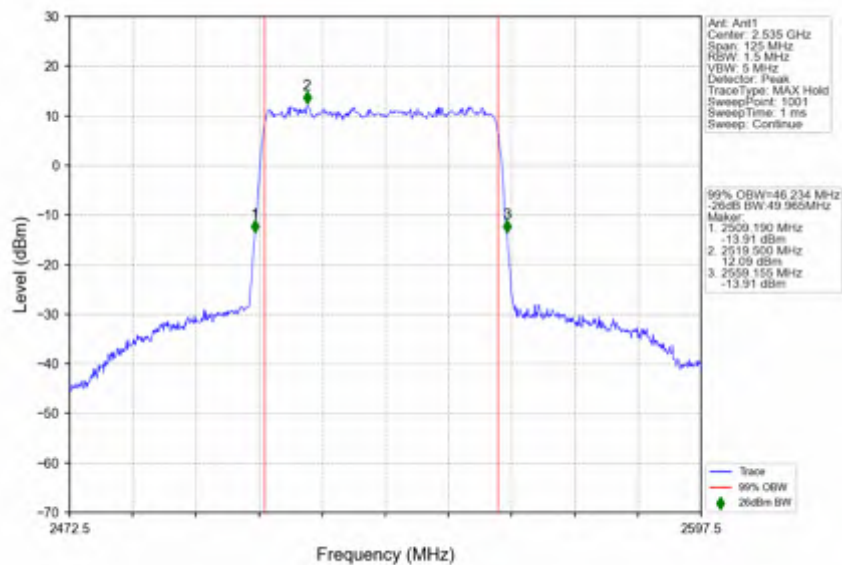
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n7_30kHz_SISO_NTNV_50MHz_DFT-s-OFDM_16_QAM_2525MHz_Outer_Full



n7_30kHz_SISO_NTNV_50MHz_DFT-s-OFDM_16_QAM_2535MHz_Outer_Full



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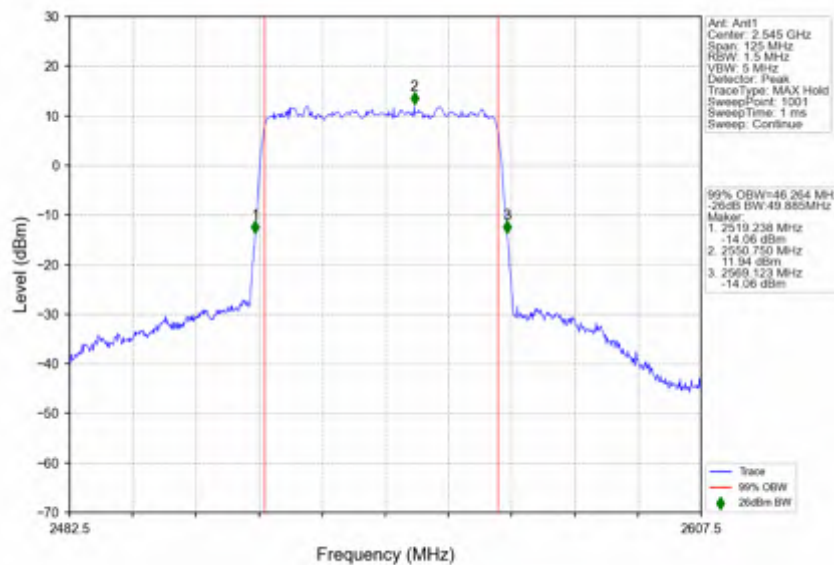
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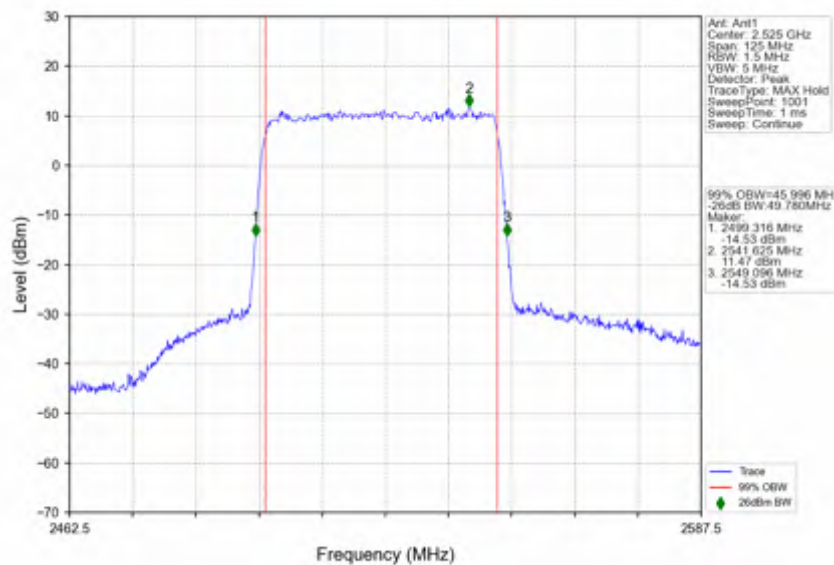
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n7_30kHz_SISO_NTNV_50MHz_DFT-s-OFDM 64 QAM_2525MHz_Outer_Full



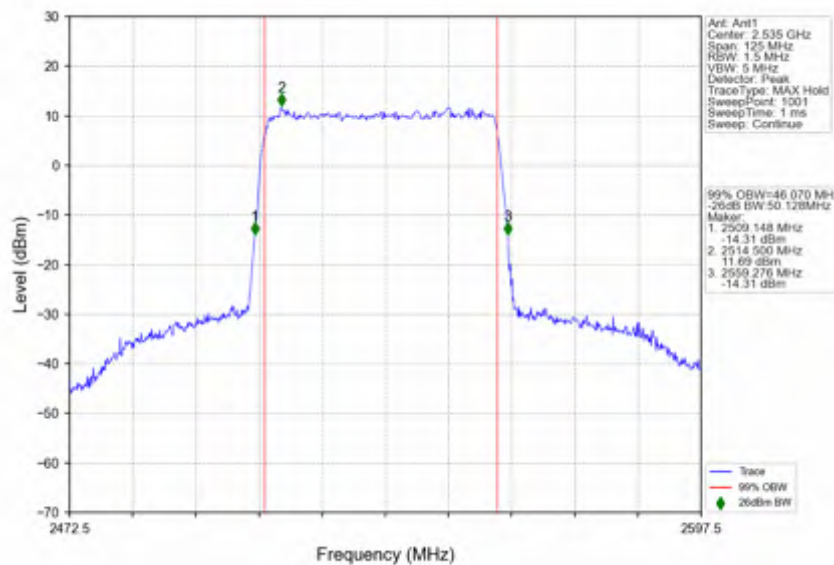
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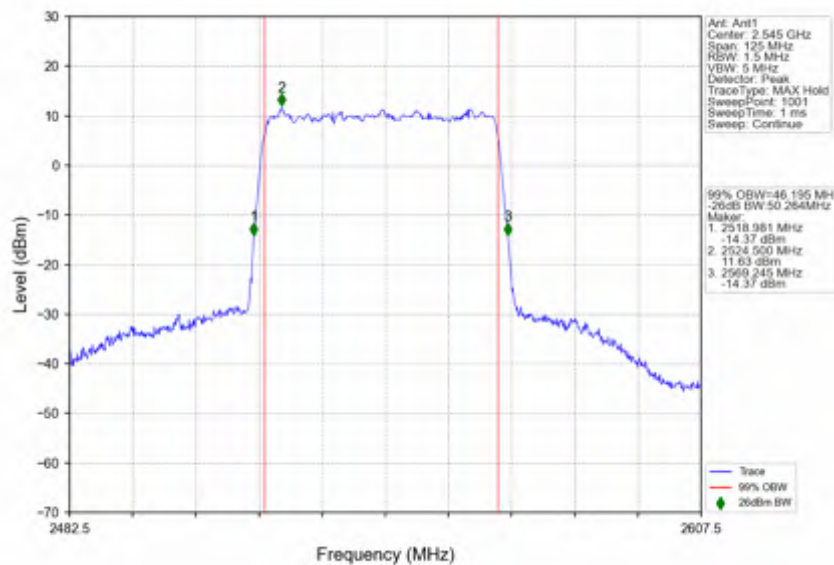
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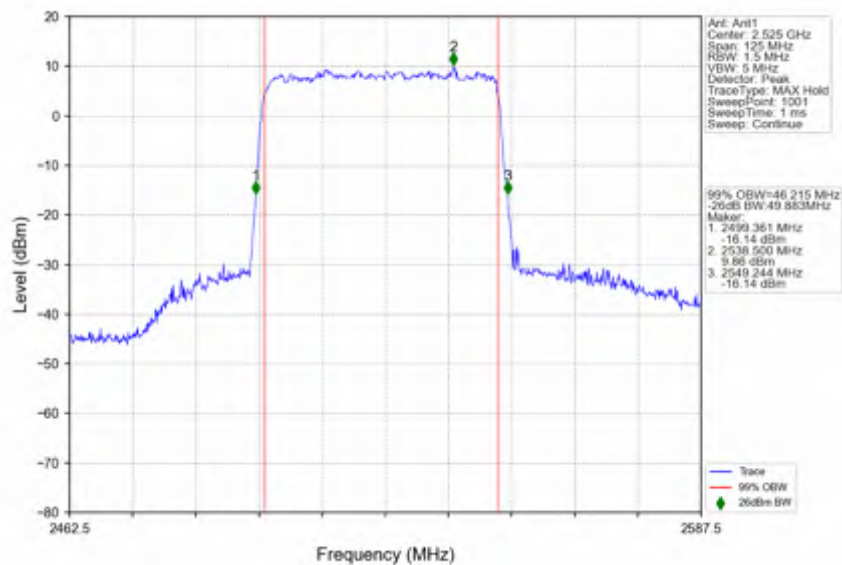
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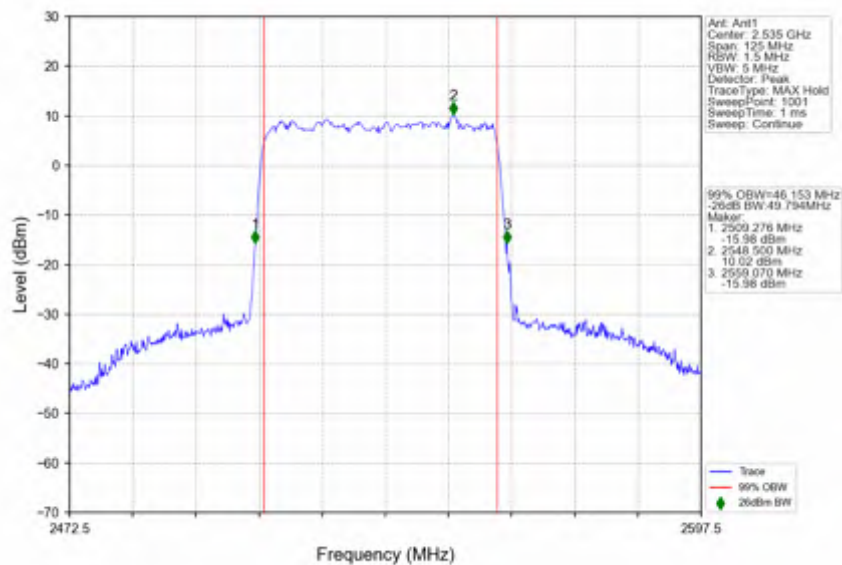
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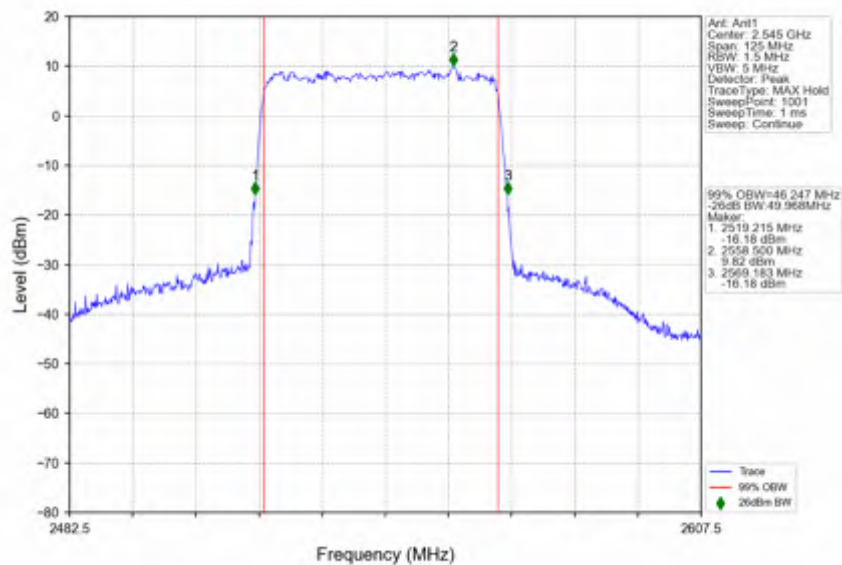


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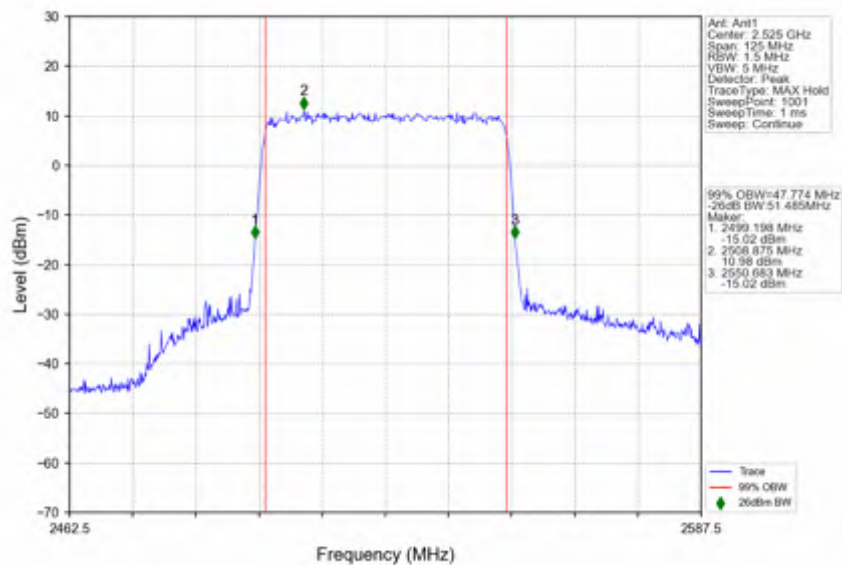
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n7 30kHz SISO NTN 50MHz CP-OFDM QPSK 2525MHz Outer Full

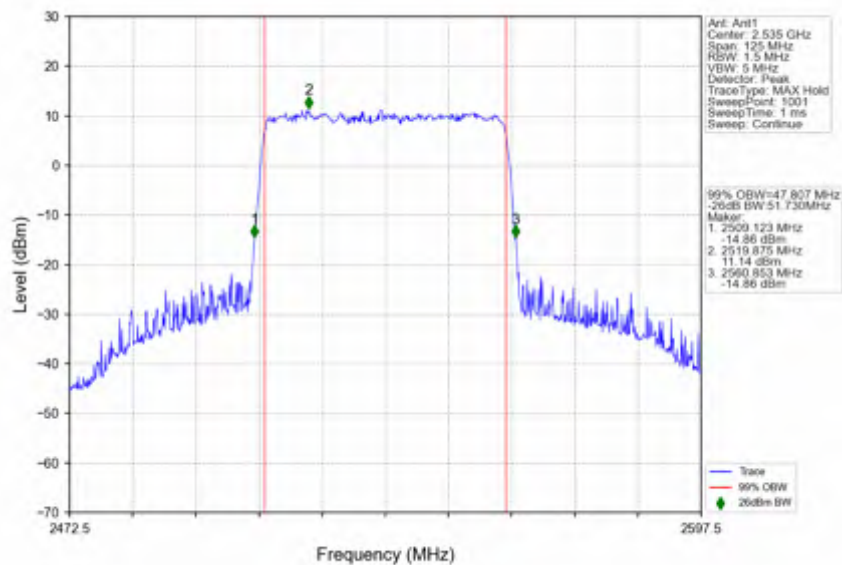


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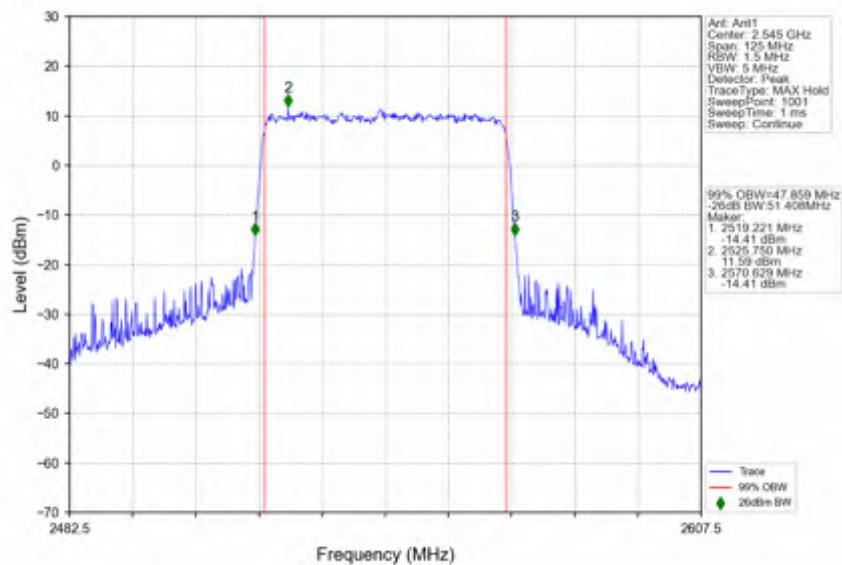
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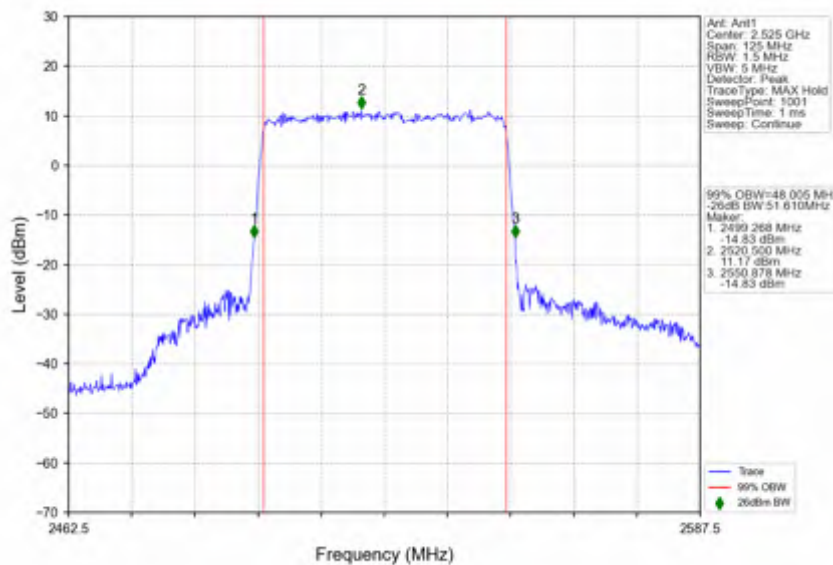
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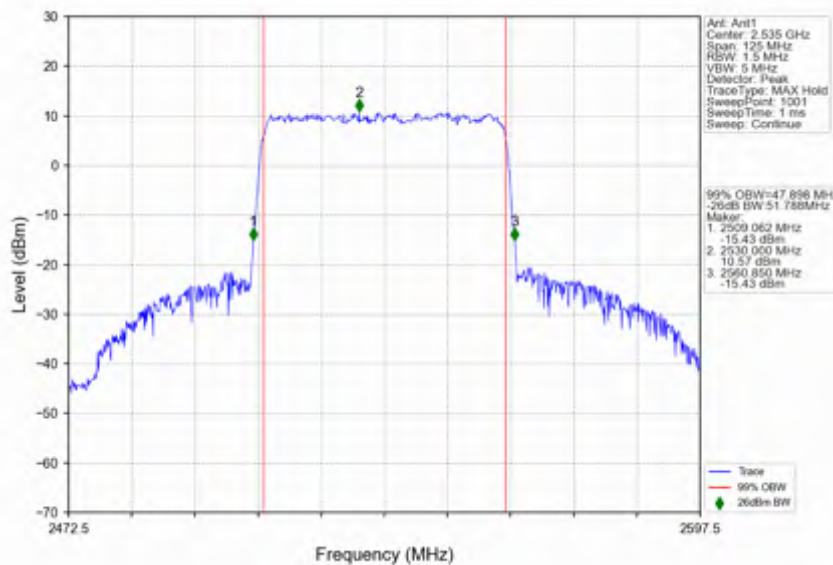
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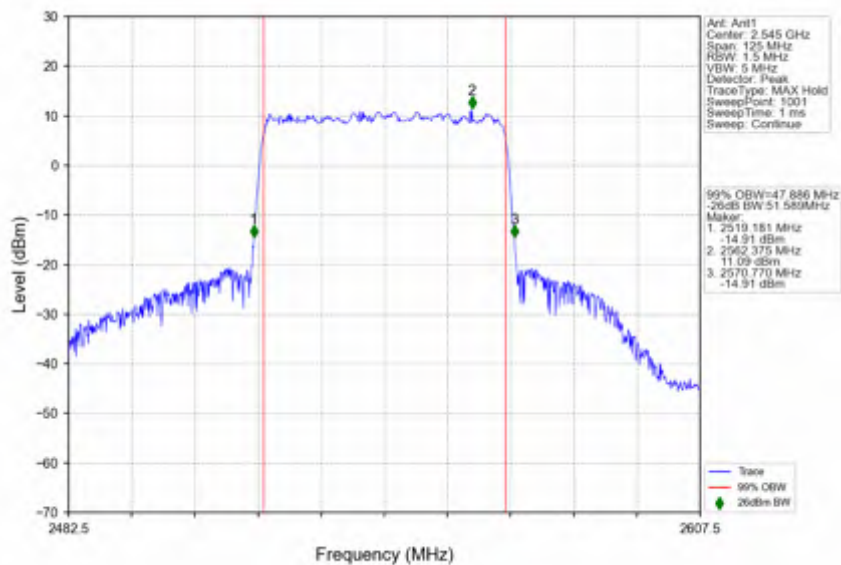
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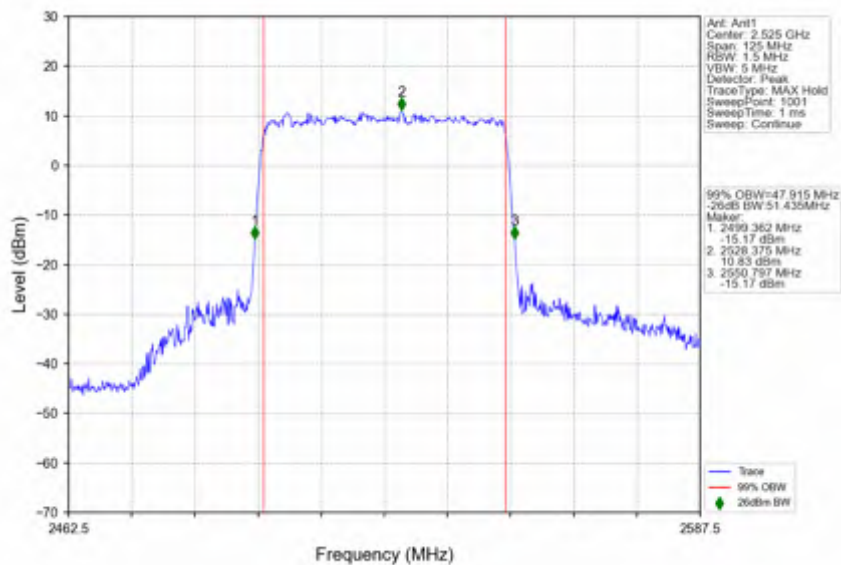
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n7 30kHz SISO NTN 50MHz CP-OFDM 64 QAM 2525MHz Outer Full

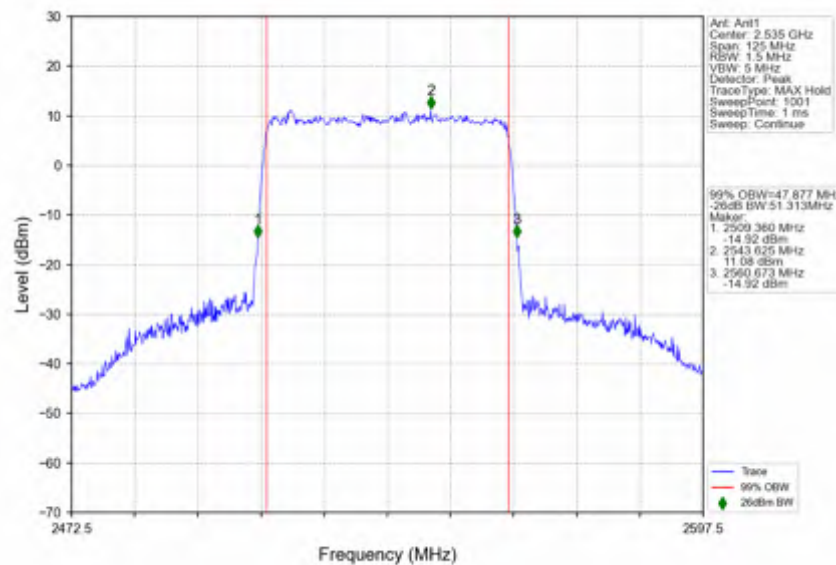


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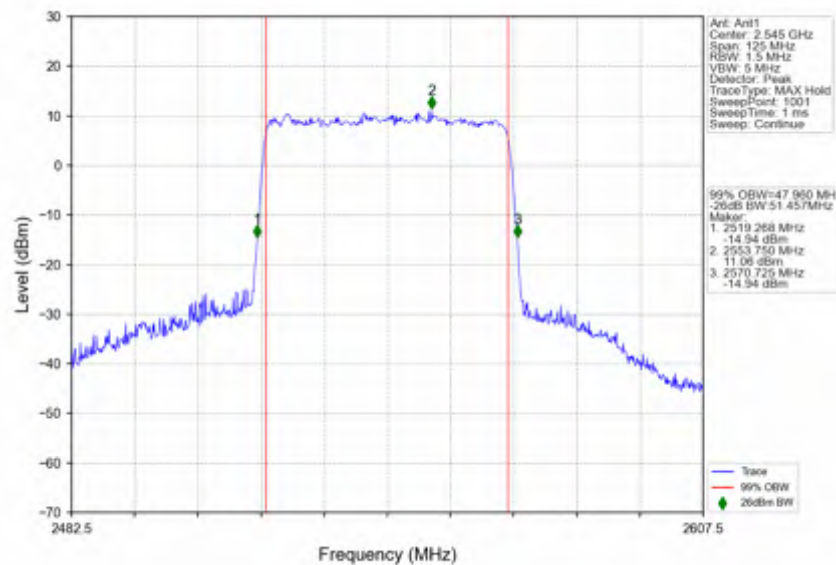
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n7_30kHz_SISO_NTNV_50MHz_CP-OFDM 64 QAM_2535MHz_Outer_Full



n7_30kHz_SISO_NTNV_50MHz_CP-OFDM 64 QAM_2545MHz_Outer_Full



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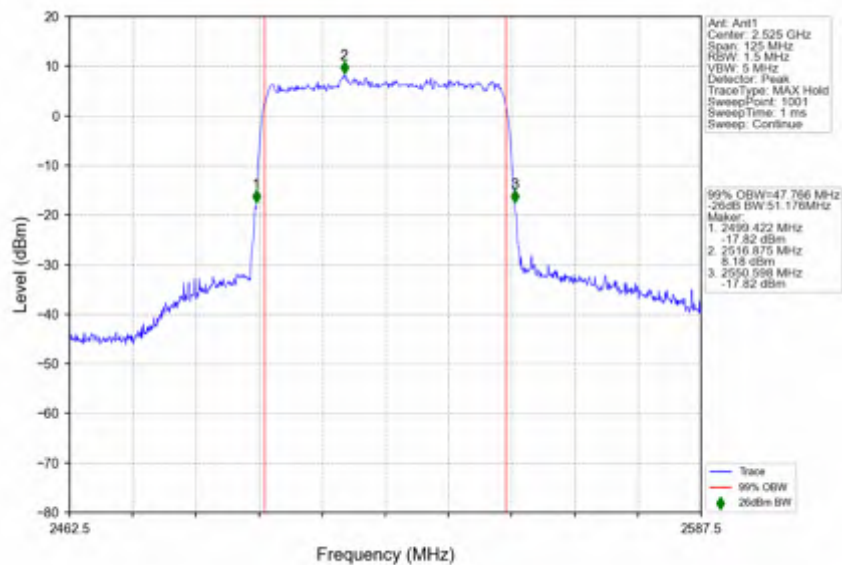
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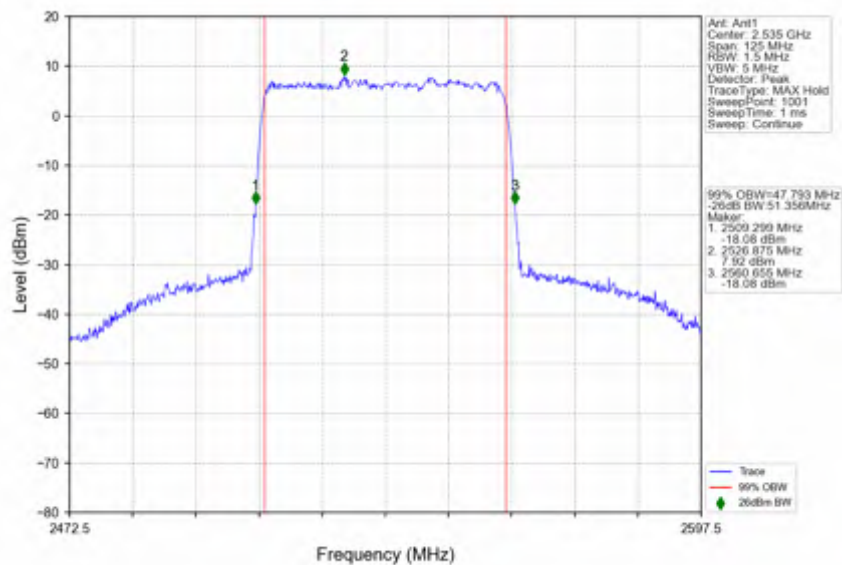
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n7 30kHz SISO NTNv 50MHz CP-OFDM 256 QAM 2525MHz Outer Full



n7 30kHz SISO NTNv 50MHz CP-OFDM 256 QAM 2535MHz Outer Full

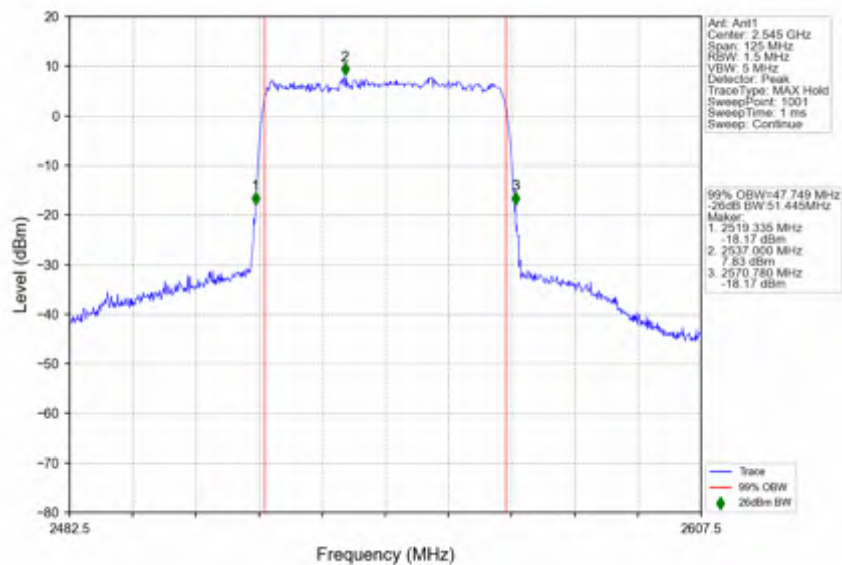


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n7_30kHz_SISO_NTNV_50MHz_CP-OFDM_256_QAM_2545MHz_Outer_Full



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4. 99% & 26dB Bandwidth

4.1 n25 15k_SISO_5MHz_NTNV

4.1.1 Test Result

5G NR n25 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	1852.5	Outer_Full	4.52	4.96	/	Pass
	1882.5	Outer_Full	4.51	5.01	/	Pass
	1912.5	Outer_Full	4.51	4.97	/	Pass
DFT-s-OFDM QPSK	1852.5	Outer_Full	4.52	4.98	/	Pass
	1882.5	Outer_Full	4.54	5.04	/	Pass
	1912.5	Outer_Full	4.52	5.01	/	Pass
DFT-s-OFDM 16 QAM	1852.5	Outer_Full	4.51	5.01	/	Pass
	1882.5	Outer_Full	4.50	4.98	/	Pass
	1912.5	Outer_Full	4.51	5.00	/	Pass
DFT-s-OFDM 64 QAM	1852.5	Outer_Full	4.54	5.00	/	Pass
	1882.5	Outer_Full	4.53	5.00	/	Pass
	1912.5	Outer_Full	4.54	5.02	/	Pass
DFT-s-OFDM 256 QAM	1852.5	Outer_Full	4.53	4.96	/	Pass
	1882.5	Outer_Full	4.53	5.07	/	Pass
	1912.5	Outer_Full	4.52	5.04	/	Pass
CP-OFDM QPSK	1852.5	Outer_Full	4.50	4.98	/	Pass
	1882.5	Outer_Full	4.51	5.01	/	Pass
	1912.5	Outer_Full	4.50	5.02	/	Pass
CP-OFDM 16 QAM	1852.5	Outer_Full	4.51	4.99	/	Pass
	1882.5	Outer_Full	4.52	5.04	/	Pass
	1912.5	Outer_Full	4.51	5.00	/	Pass
CP-OFDM 64 QAM	1852.5	Outer_Full	4.52	4.98	/	Pass
	1882.5	Outer_Full	4.52	5.01	/	Pass
	1912.5	Outer_Full	4.53	5.00	/	Pass
CP-OFDM 256 QAM	1852.5	Outer_Full	4.50	4.99	/	Pass
	1882.5	Outer_Full	4.51	5.04	/	Pass
	1912.5	Outer_Full	4.51	5.04	/	Pass



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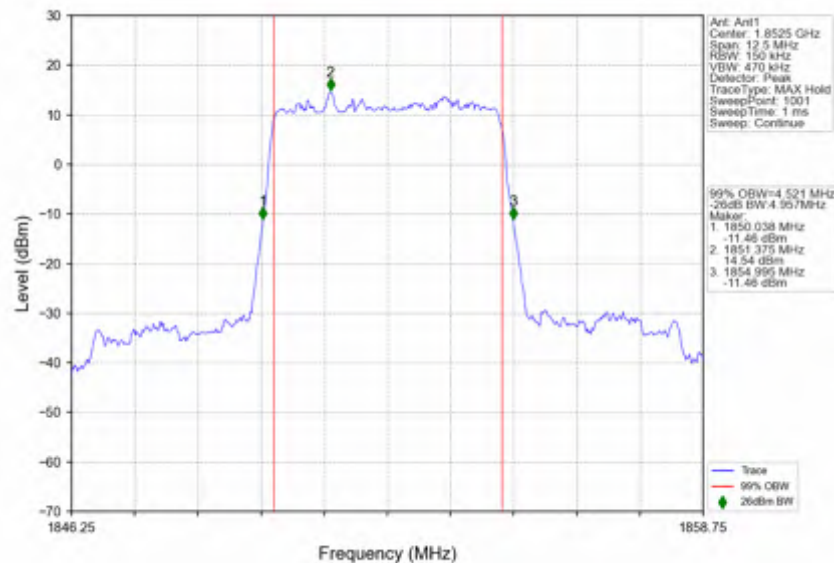
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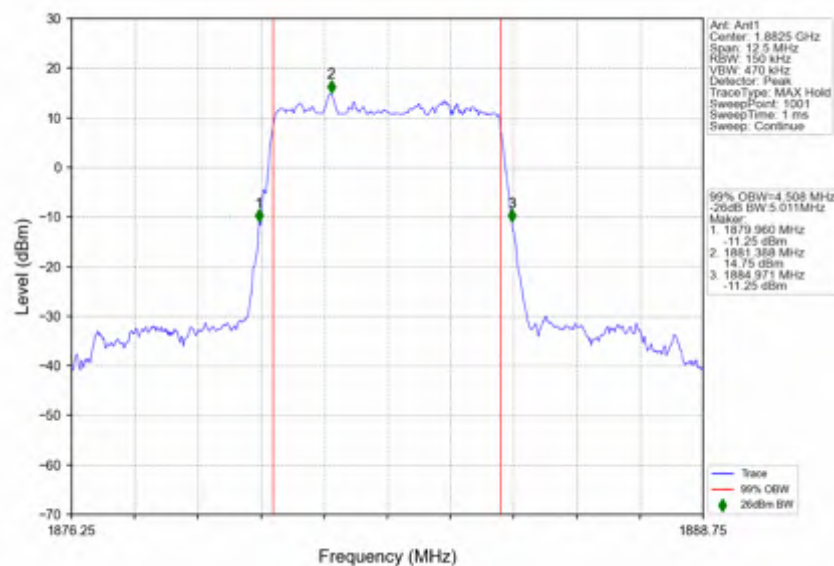
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4.1.2 Test Graph

n25_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM_PI/2_BPSK_1852.5MHz_Outer_Full



n25_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM_PI/2_BPSK_1882.5MHz_Outer_Full



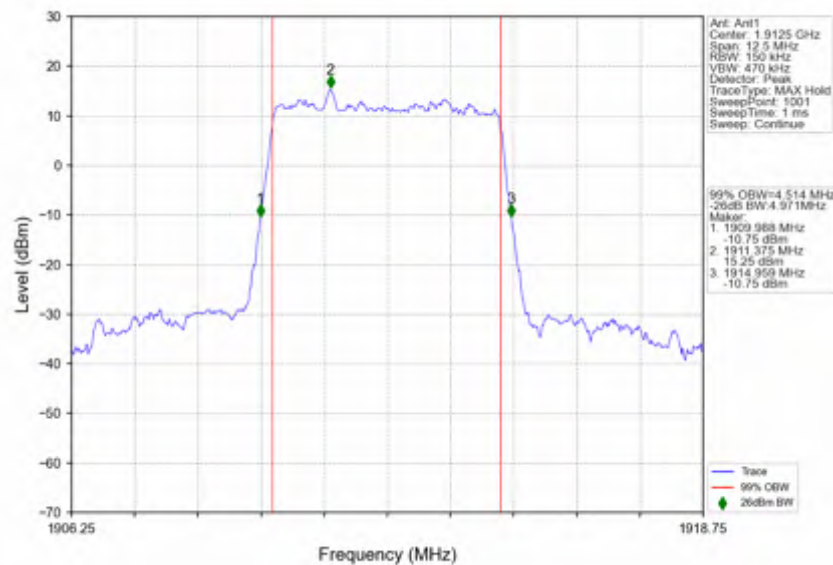
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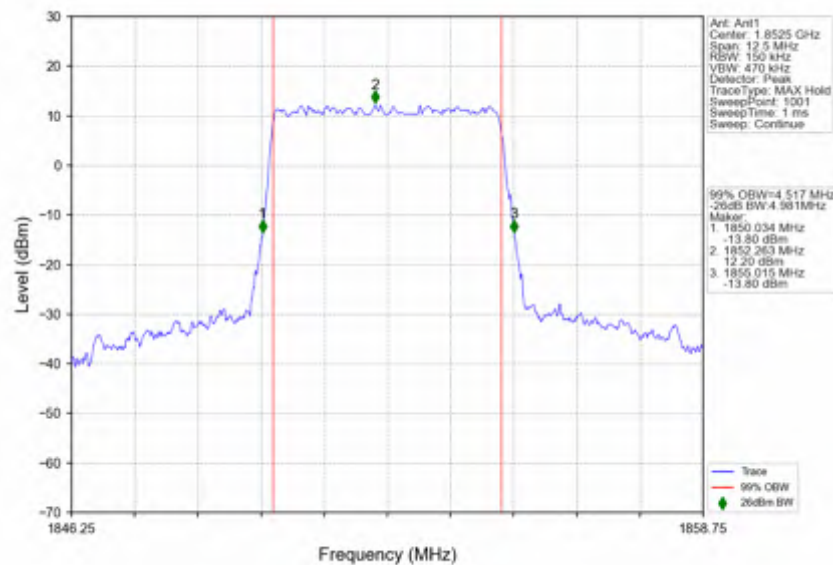
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n25_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM PI/2 BPSK_1912.5MHz_Outer_Full



n25_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM QPSK_1852.5MHz_Outer_Full



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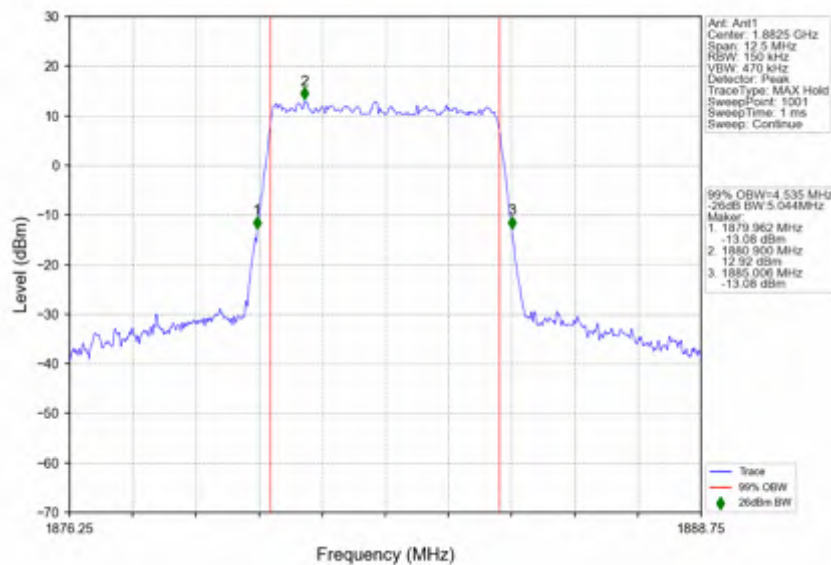
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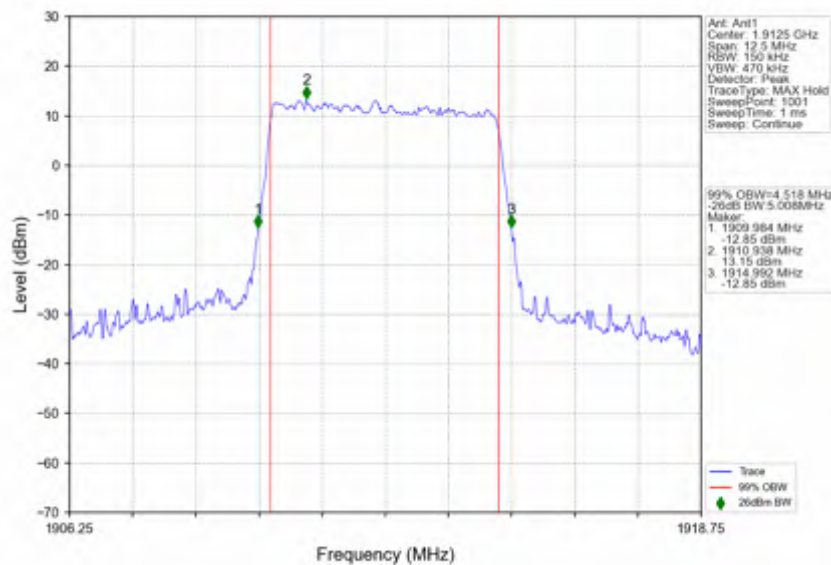
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n25_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM QPSK_1882.5MHz_Outer_Full



n25_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM QPSK_1912.5MHz_Outer_Full



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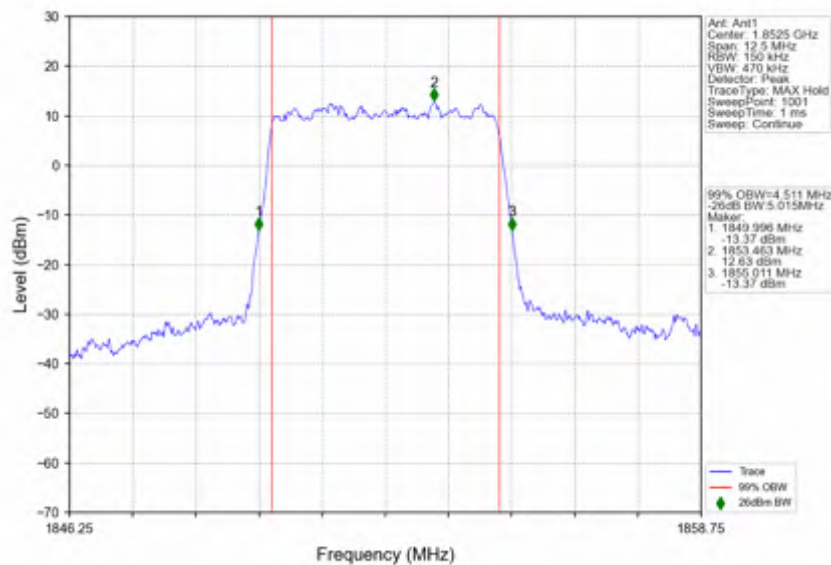
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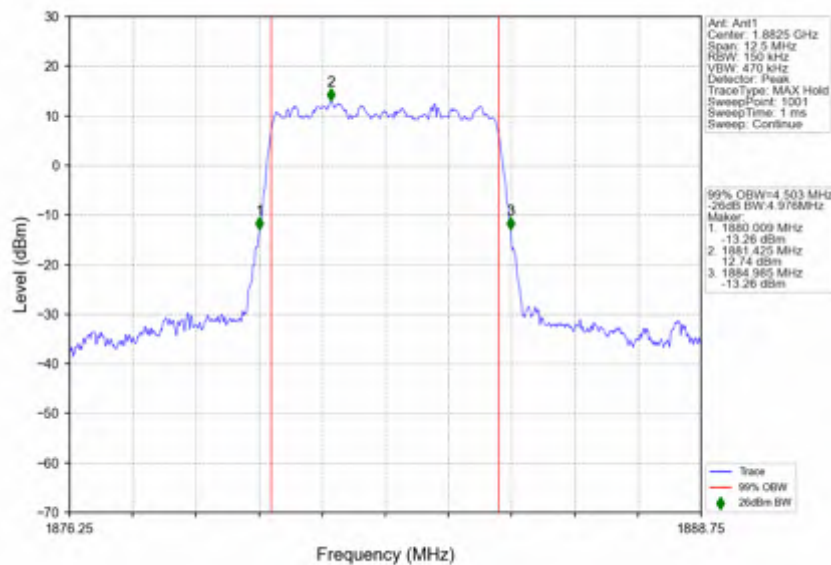
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n25_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM_16_QAM_1882.5MHz_Outer_Full



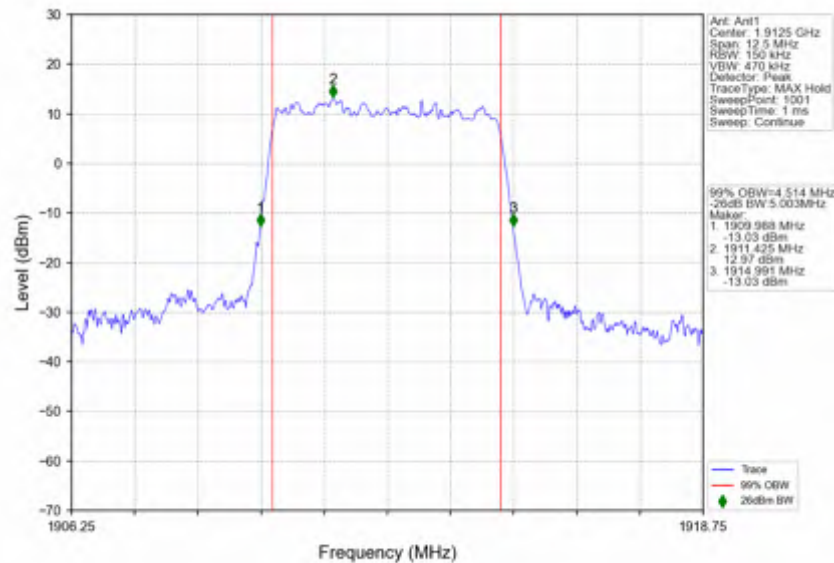
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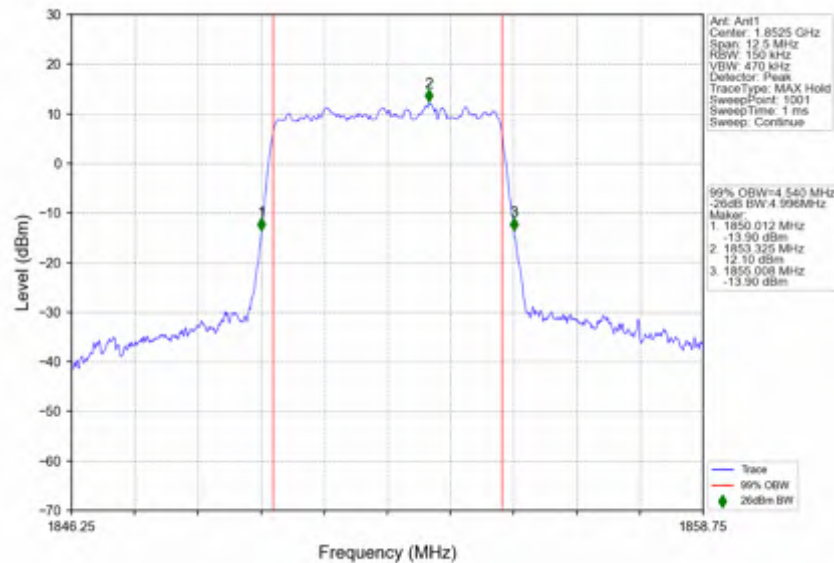
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n25_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM_16 QAM_1912.5MHz_Outer_Full



n25_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM_64 QAM_1852.5MHz_Outer_Full



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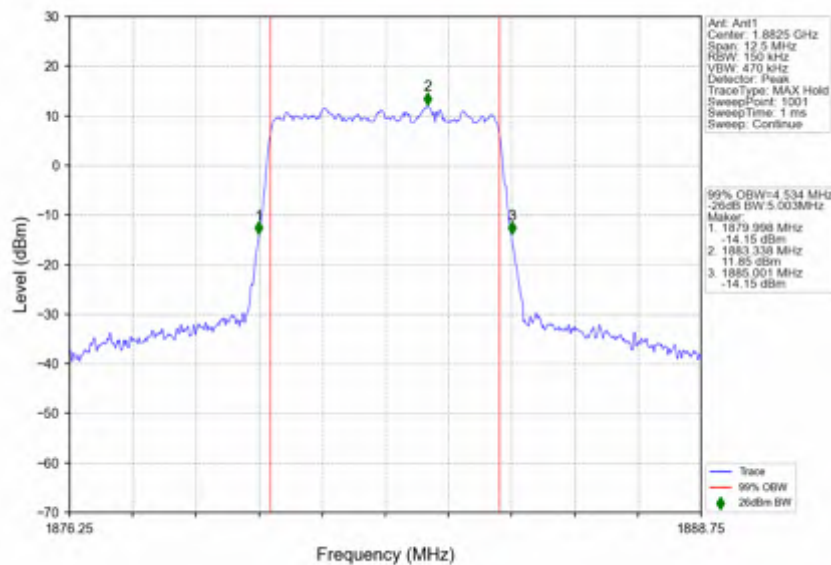
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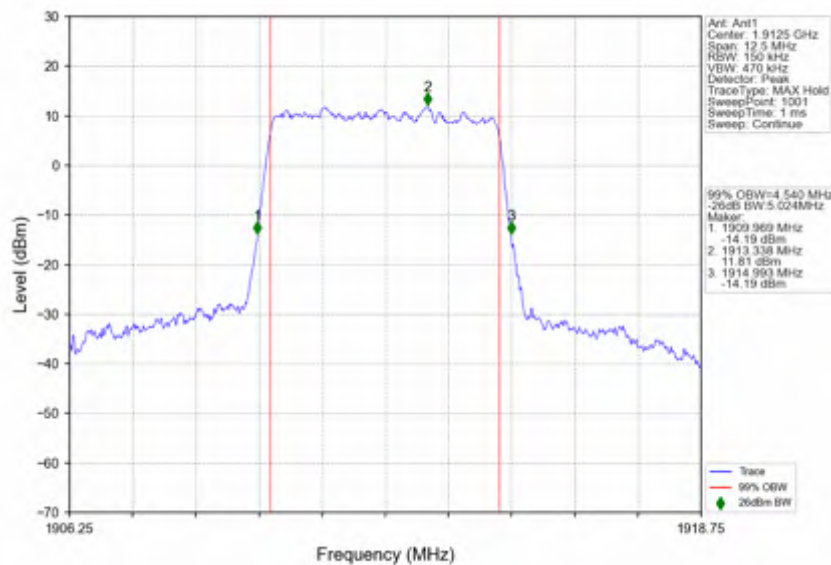
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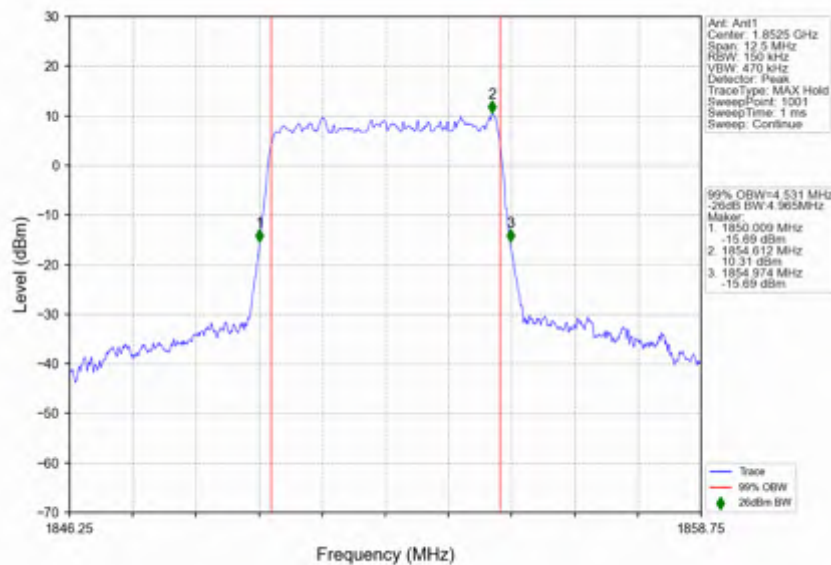
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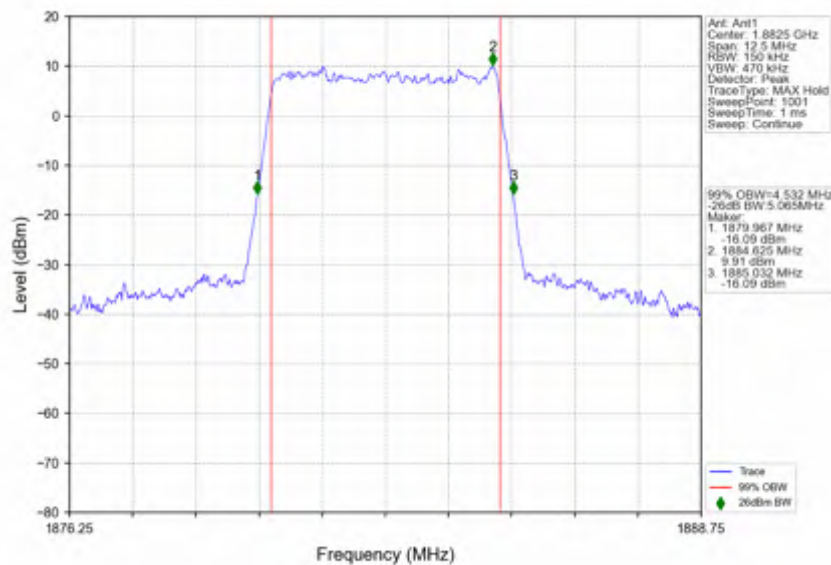
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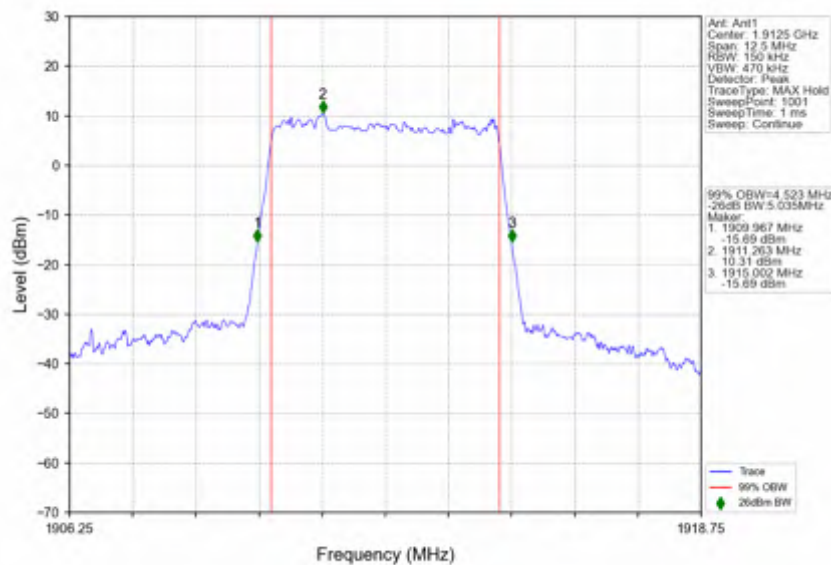
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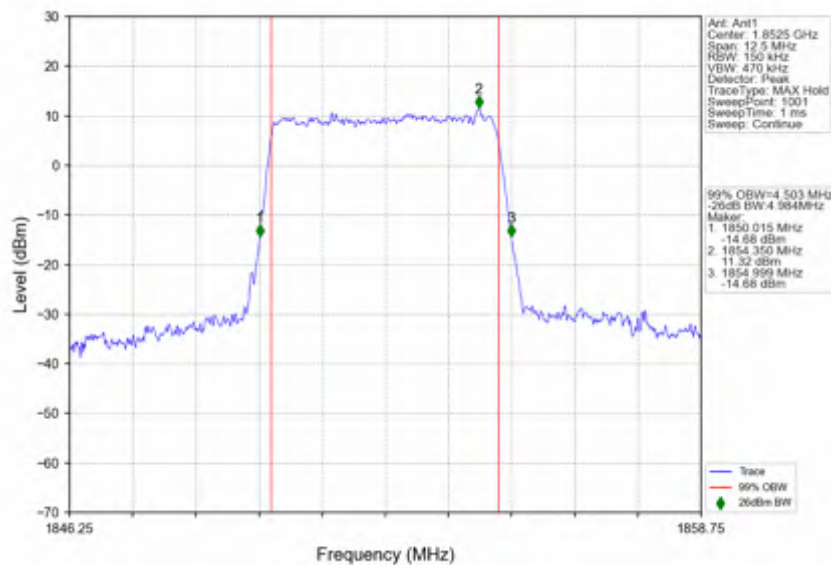
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n25_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM 256 QAM_1912.5MHz_Outer_Full



n25_15kHz_SISO_NTNV_5MHz_CP-OFDM QPSK_1852.5MHz_Outer_Full



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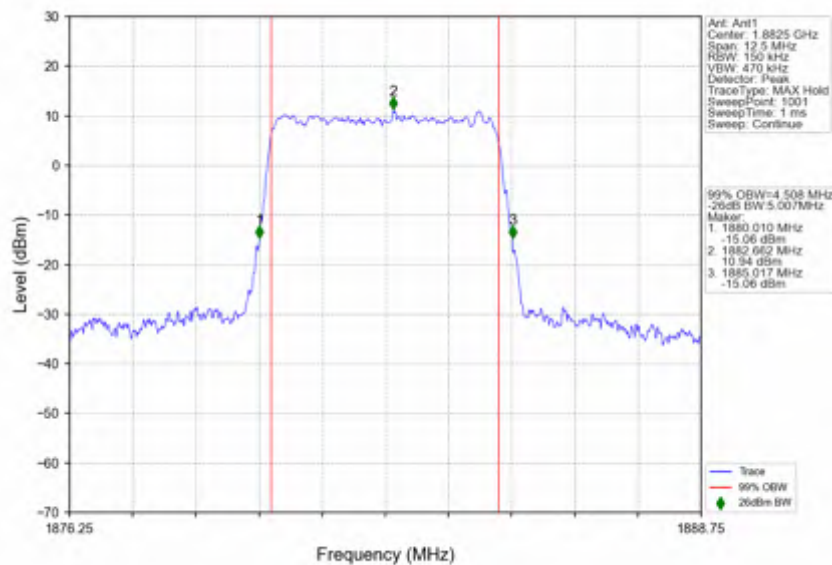
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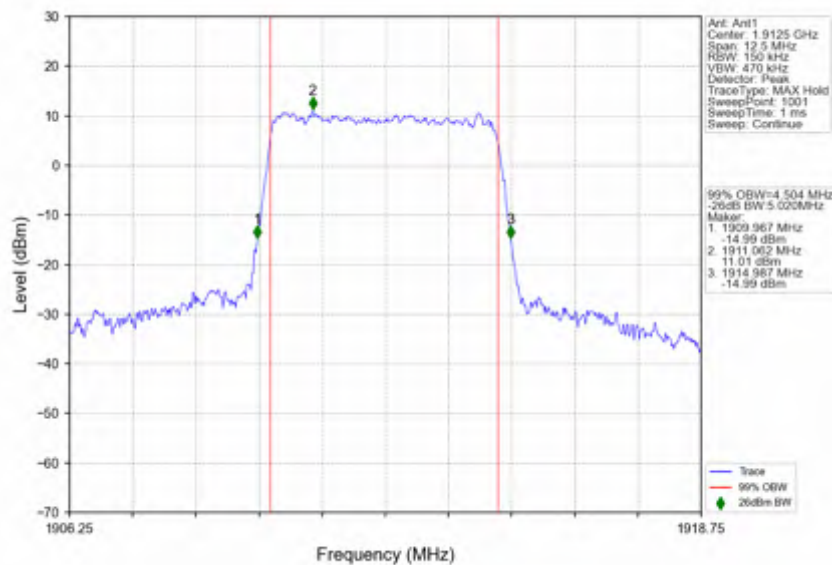
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n25_15kHz_SISO_NTNV_5MHz_CP-OFDM QPSK_1882.5MHz_Outer_Full



n25_15kHz_SISO_NTNV_5MHz_CP-OFDM QPSK_1912.5MHz_Outer_Full



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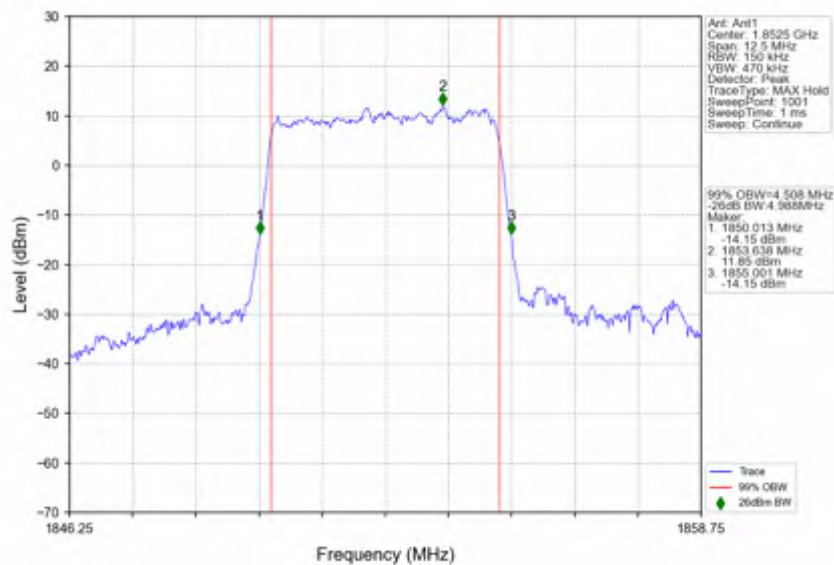
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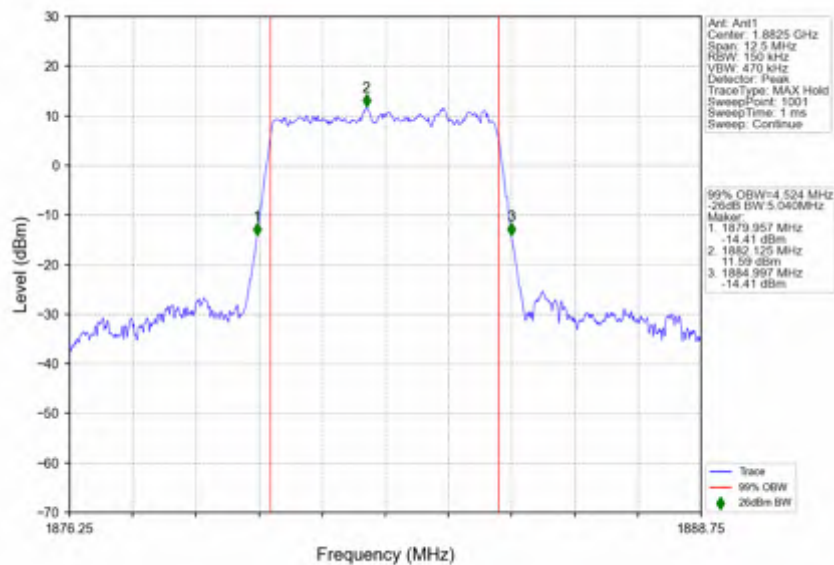
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n25_15kHz_SISO_NTNV_5MHz_CP-OFDM_16 QAM_1852.5MHz_Outer_Full



n25_15kHz_SISO_NTNV_5MHz_CP-OFDM_16 QAM_1882.5MHz_Outer_Full



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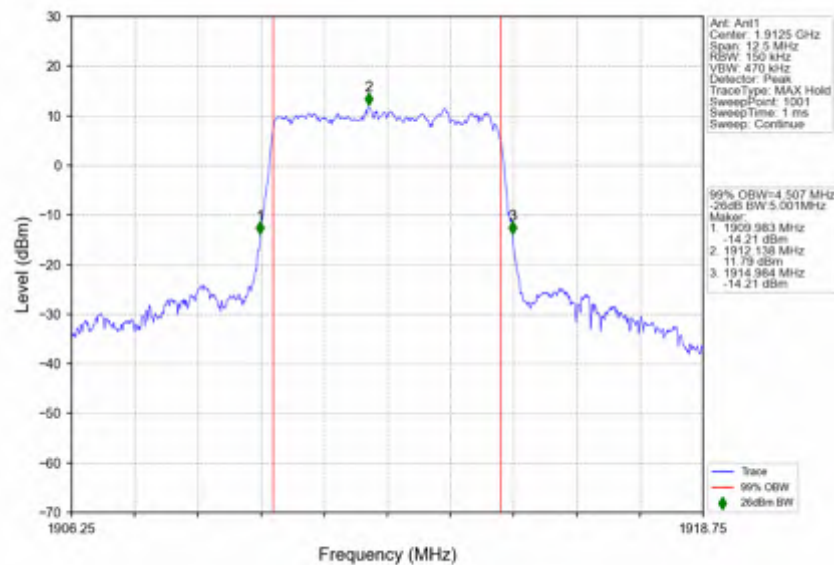
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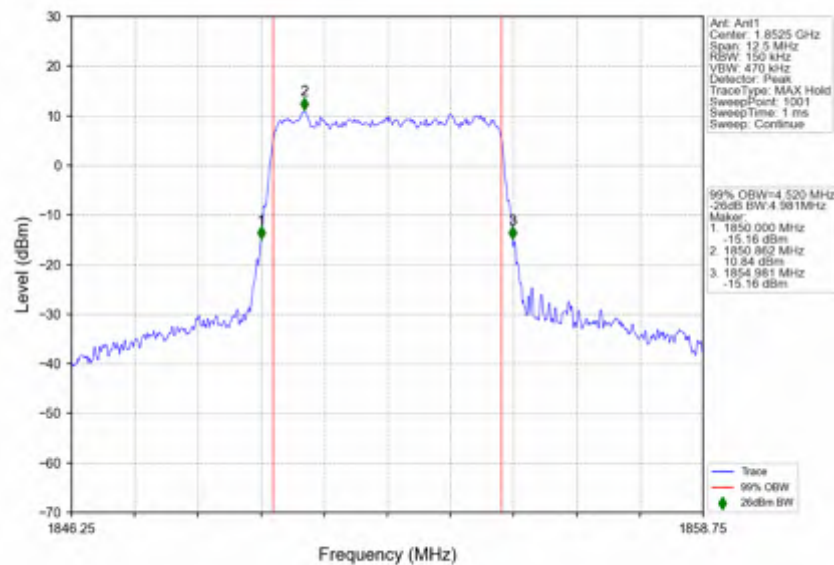
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n25_15kHz_SISO_NTNV_5MHz_CP-OFDM_16 QAM_1912.5MHz_Outer_Full



n25_15kHz_SISO_NTNV_5MHz_CP-OFDM_64 QAM_1852.5MHz_Outer_Full



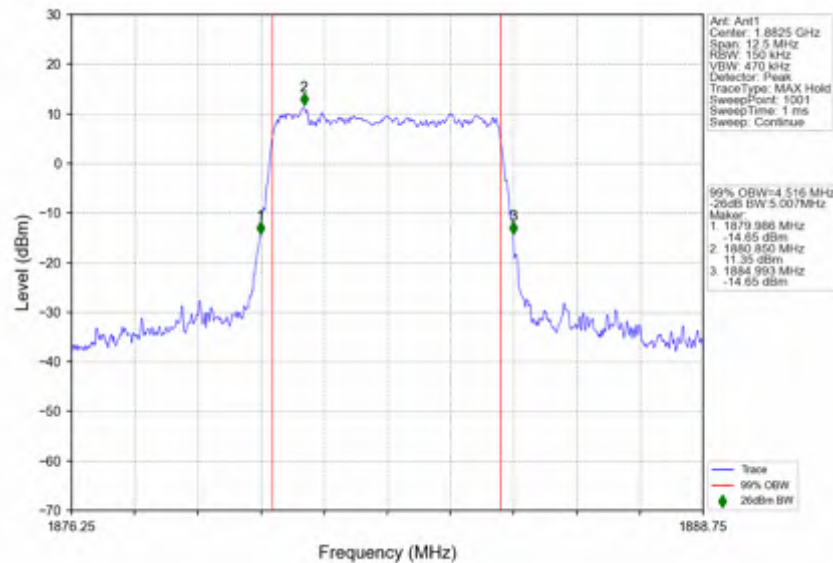
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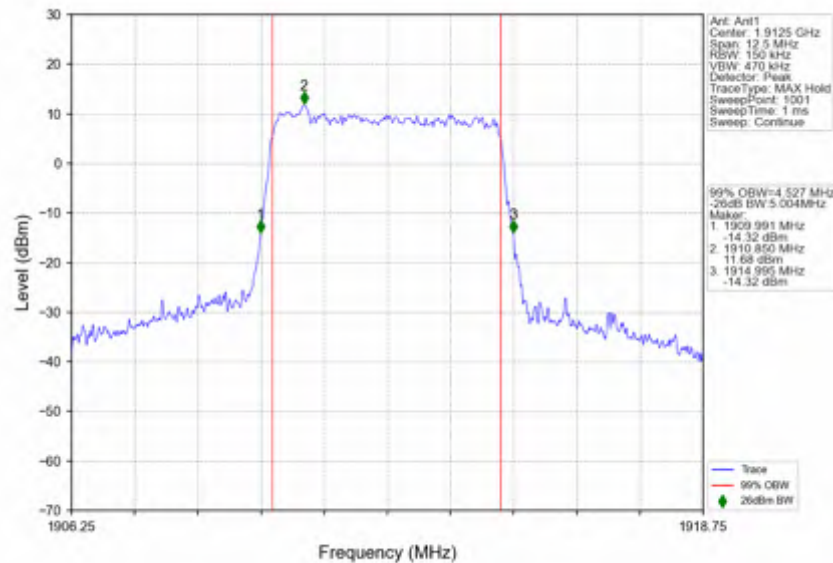
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n25_15kHz_SISO_NTNV_5MHz_CP-OFDM_64_QAM_1882.5MHz_Outer_Full



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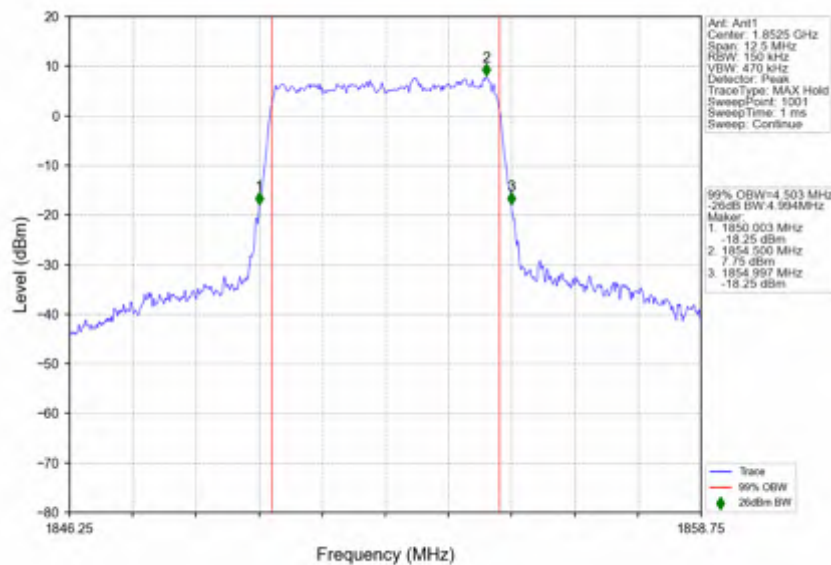
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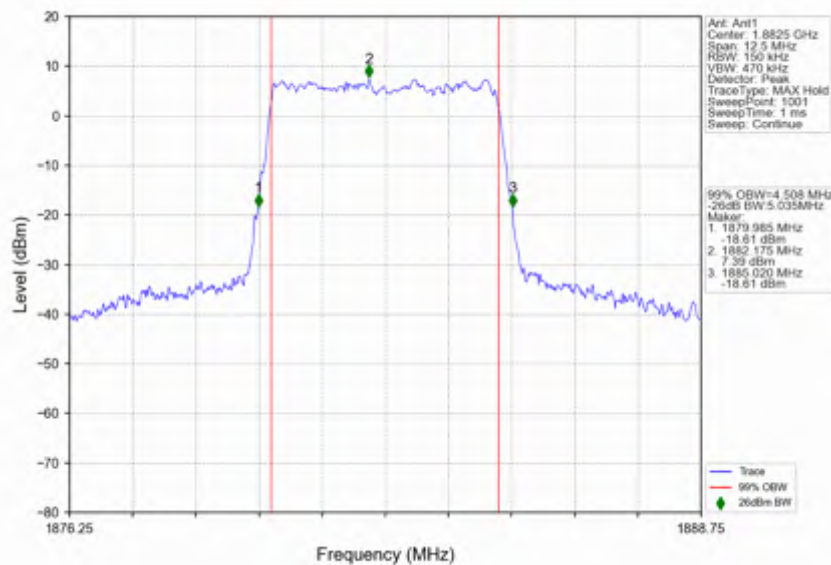
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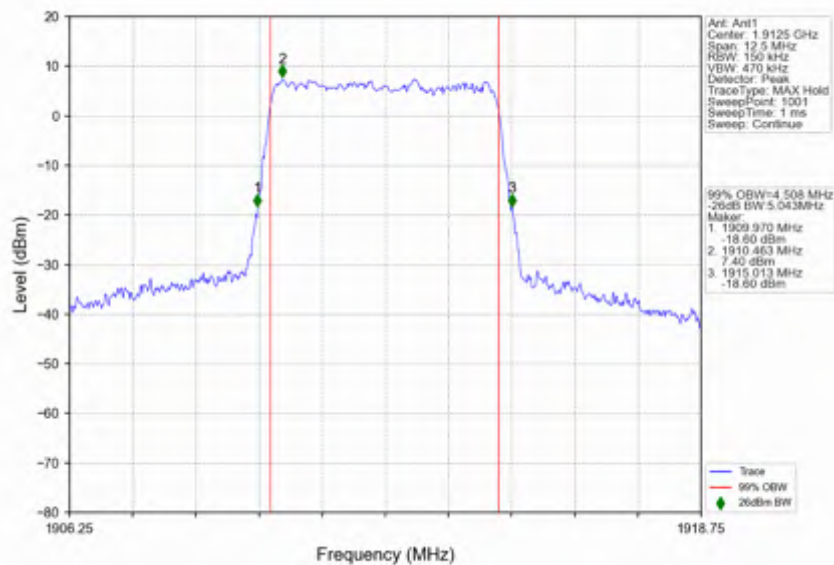
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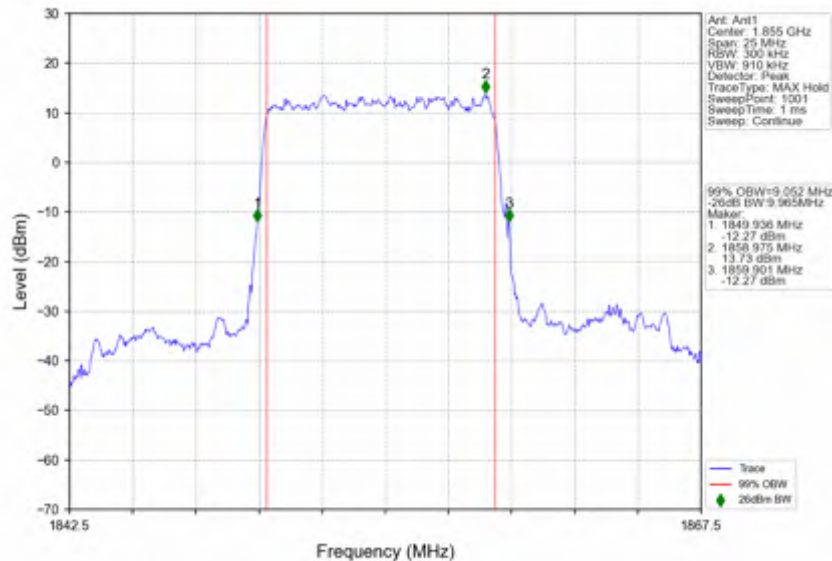
4.2 15k_SISO_10MHz_NTNV

4.2.1 Test Result

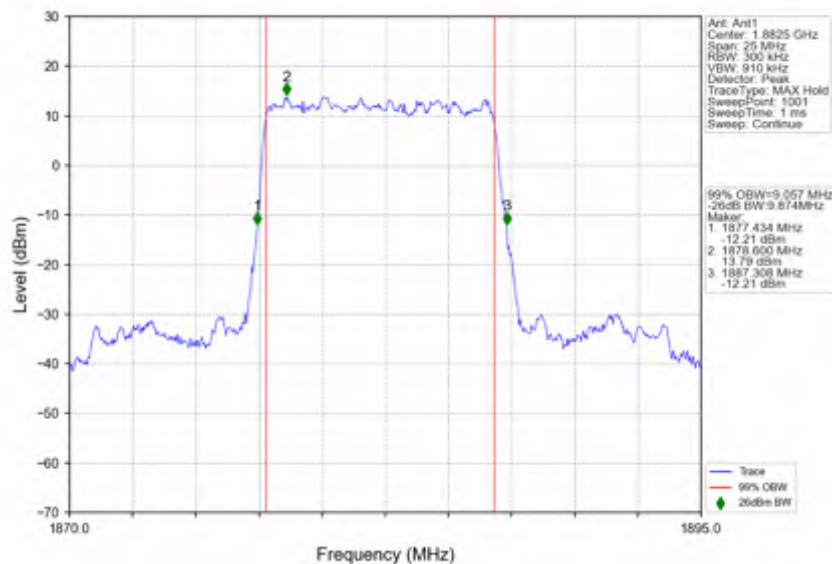
5G NR n25 SCS=15kHz SISO 10MHz NTN						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	1855	Outer_Full	9.05	9.96	/	Pass
	1882.5	Outer_Full	9.06	9.87	/	Pass
	1910	Outer_Full	9.04	9.86	/	Pass
DFT-s-OFDM QPSK	1855	Outer_Full	9.08	9.88	/	Pass
	1882.5	Outer_Full	9.09	9.87	/	Pass
	1910	Outer_Full	9.04	9.83	/	Pass
DFT-s-OFDM 16 QAM	1855	Outer_Full	9.02	9.90	/	Pass
	1882.5	Outer_Full	9.04	9.96	/	Pass
	1910	Outer_Full	9.02	9.91	/	Pass
DFT-s-OFDM 64 QAM	1855	Outer_Full	9.04	9.92	/	Pass
	1882.5	Outer_Full	9.07	9.99	/	Pass
	1910	Outer_Full	9.03	9.86	/	Pass
DFT-s-OFDM 256 QAM	1855	Outer_Full	9.02	9.91	/	Pass
	1882.5	Outer_Full	9.04	9.81	/	Pass
	1910	Outer_Full	9.01	9.85	/	Pass
CP-OFDM QPSK	1855	Outer_Full	9.35	10.19	/	Pass
	1882.5	Outer_Full	9.36	10.19	/	Pass
	1910	Outer_Full	9.38	10.21	/	Pass
CP-OFDM 16 QAM	1855	Outer_Full	9.37	10.17	/	Pass
	1882.5	Outer_Full	9.38	10.16	/	Pass
	1910	Outer_Full	9.34	10.22	/	Pass
CP-OFDM 64 QAM	1855	Outer_Full	9.38	10.28	/	Pass
	1882.5	Outer_Full	9.41	10.29	/	Pass
	1910	Outer_Full	9.36	10.22	/	Pass
CP-OFDM 256 QAM	1855	Outer_Full	9.40	10.18	/	Pass
	1882.5	Outer_Full	9.40	10.17	/	Pass
	1910	Outer_Full	9.34	10.15	/	Pass

4.2.2 Test Graph

n25_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM_PI/2_BPSK_1855MHz_Outer_Full



n25_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM_PI/2_BPSK_1882.5MHz_Outer_Full

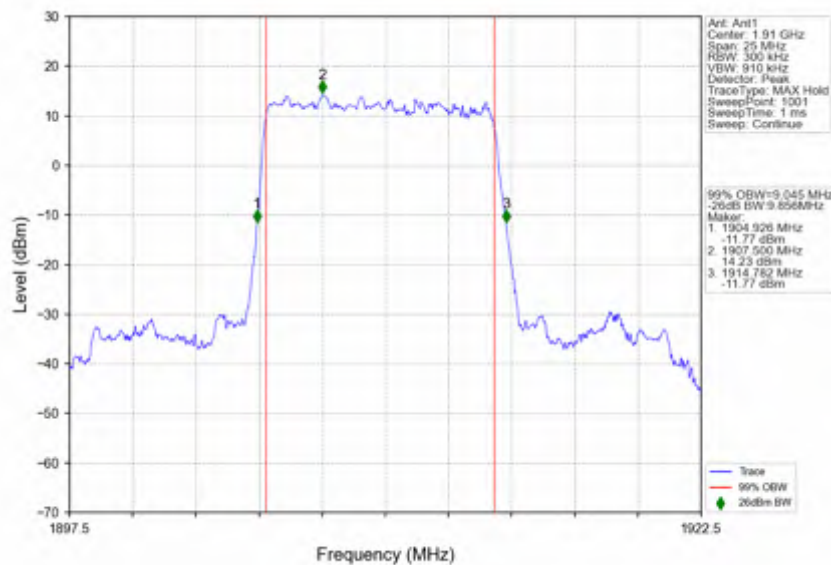


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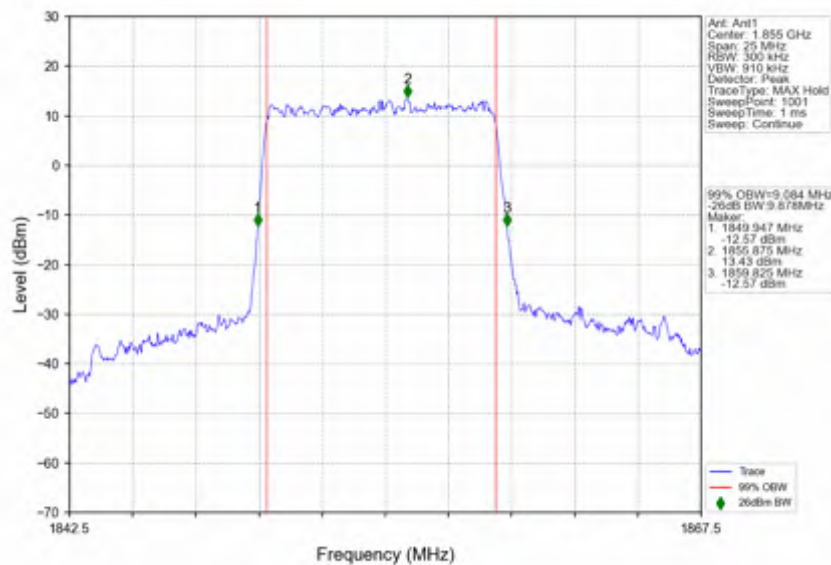
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n25_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM QPSK_1855MHz_Outer_Full



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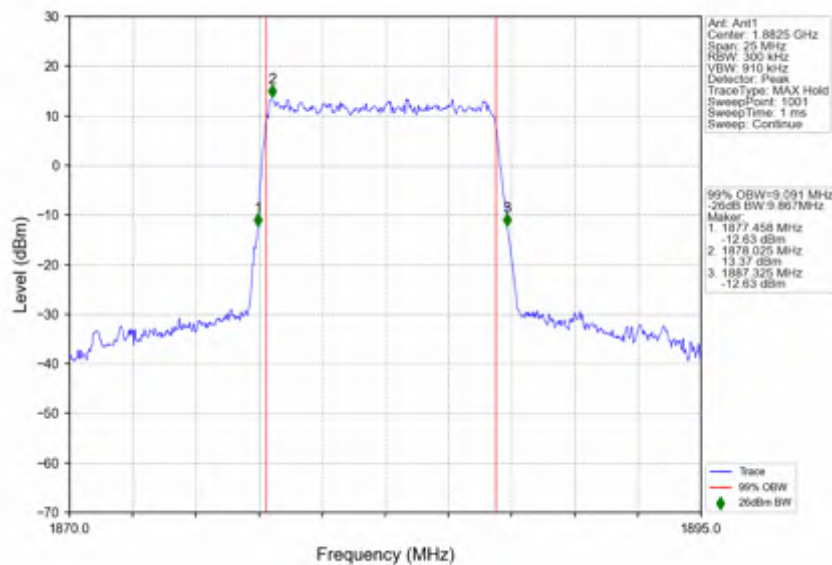
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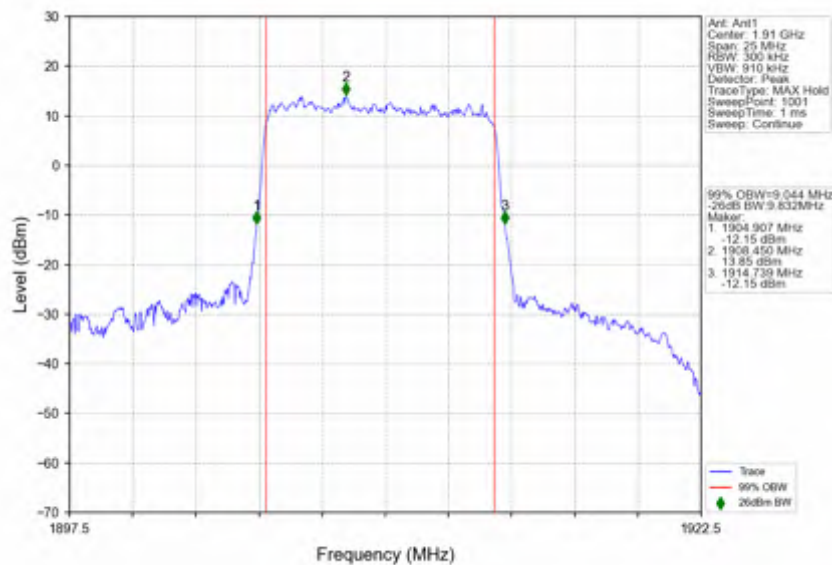
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n25_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM_QPSK_1910MHz_Outer_Full



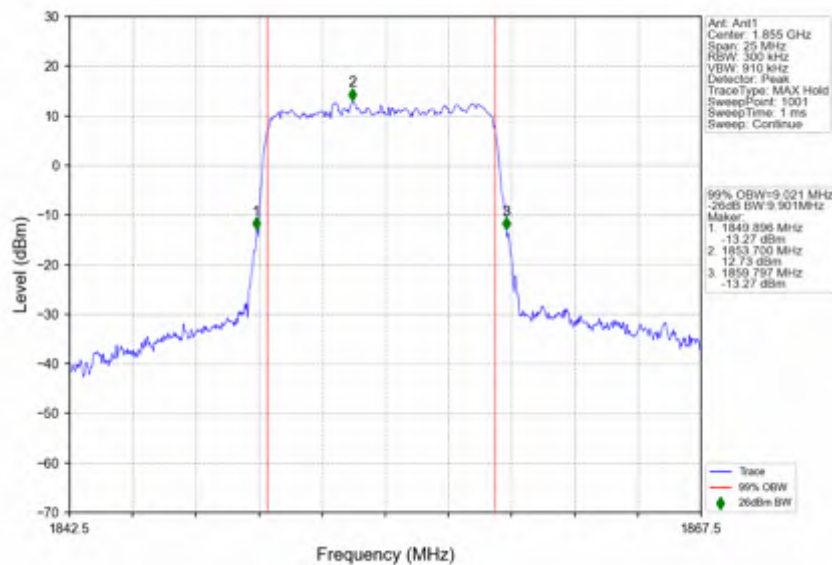
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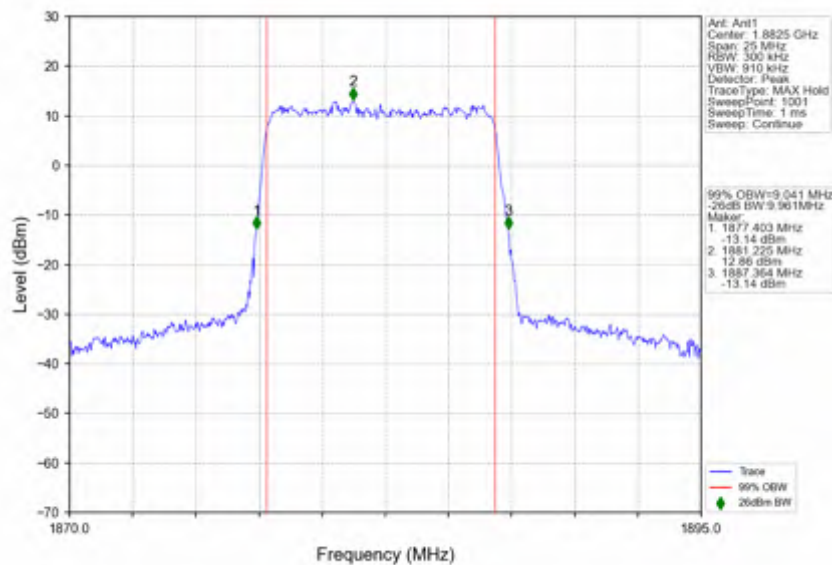
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n25_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM_16_QAM_1882.5MHz_Outer_Full

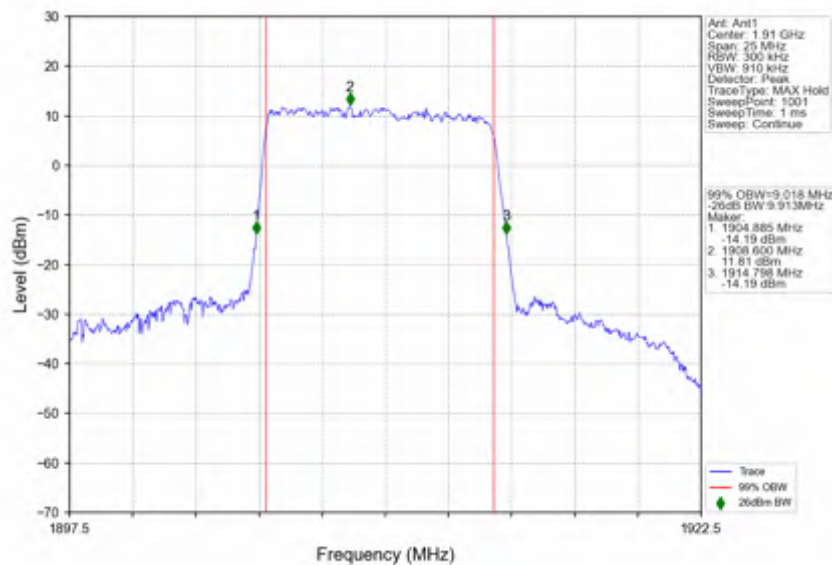


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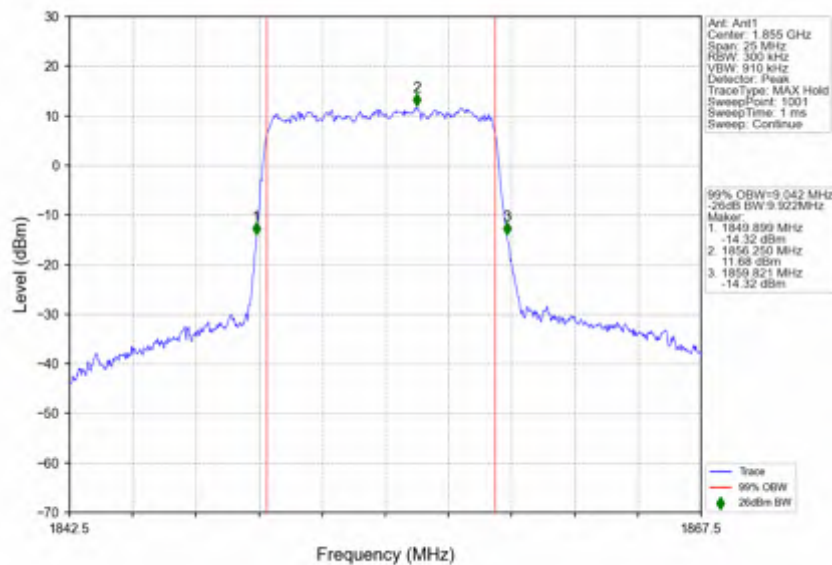
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n25_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM 16 QAM_1910MHz_Outer_Full



n25_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM 64 QAM_1855MHz_Outer_Full



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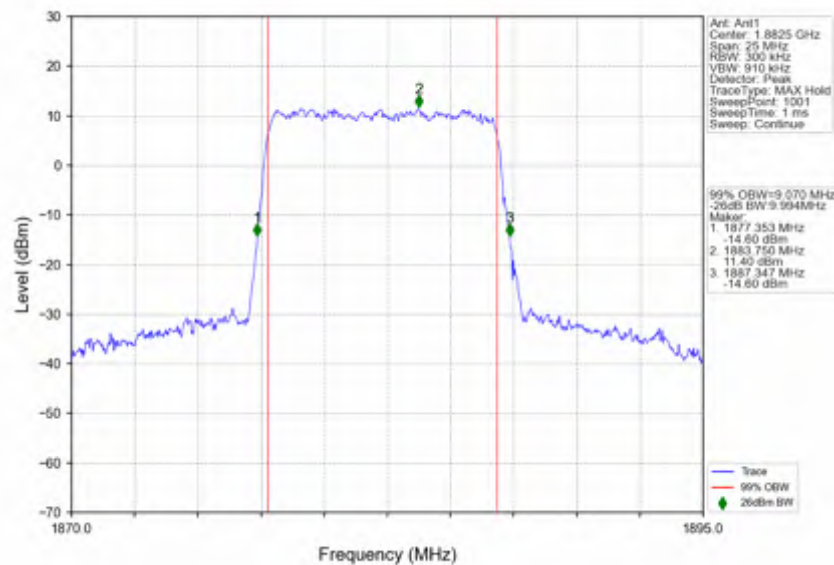
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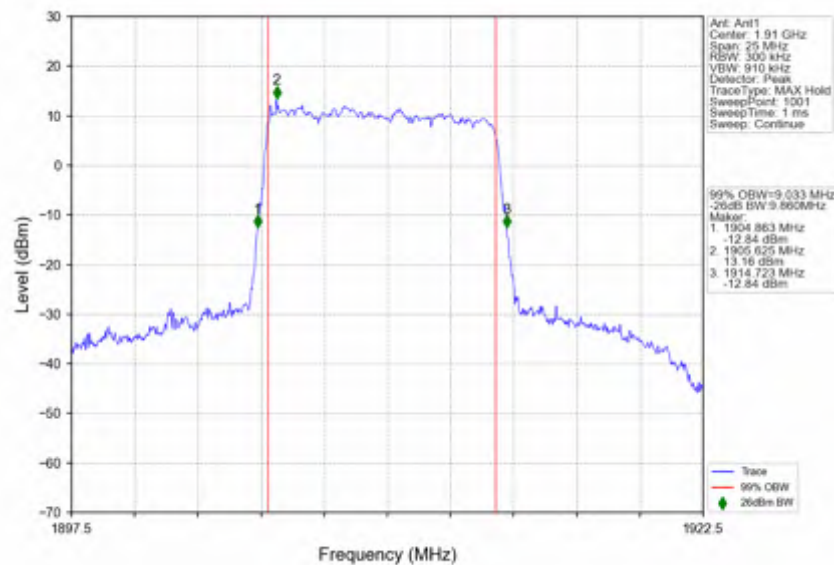
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n25_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM 64 QAM_1882.5MHz_Outer_Full



n25_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM 64 QAM_1910MHz_Outer_Full



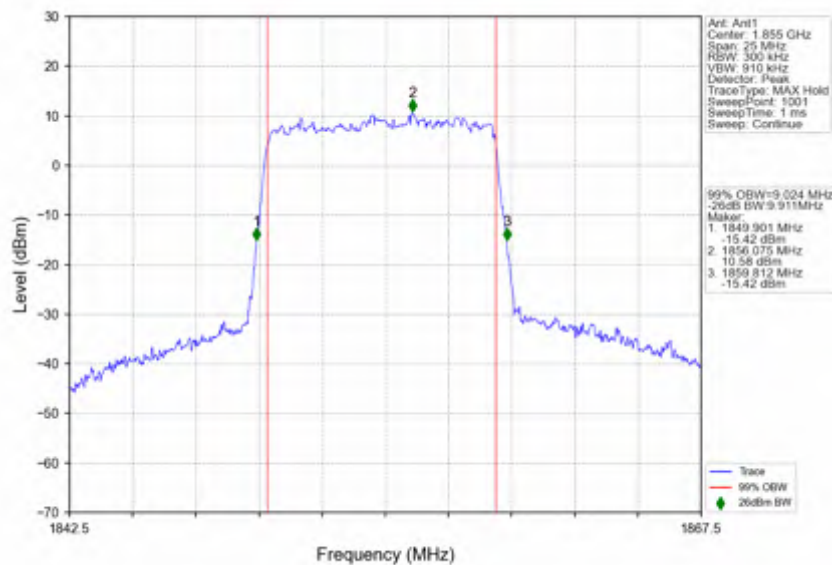
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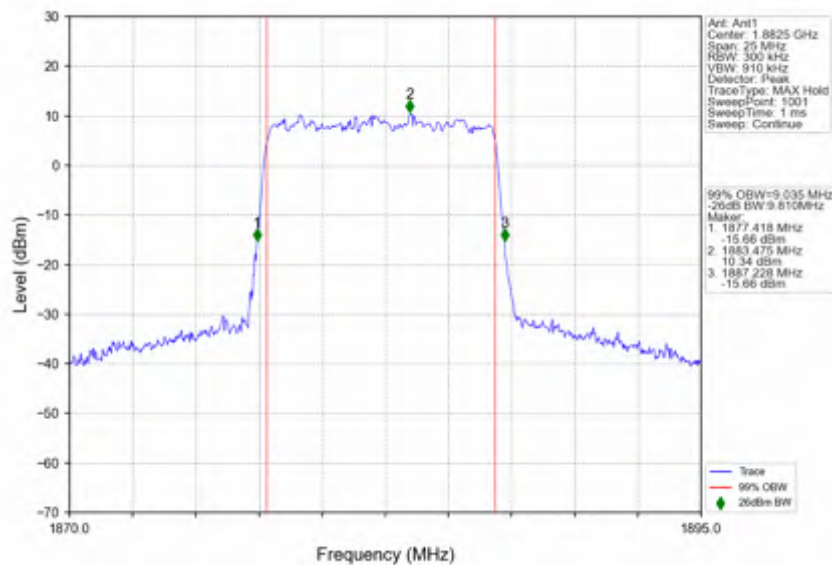
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n25_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM_256_QAM_1855MHz_Outer_Full



n25_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM_256_QAM_1882.5MHz_Outer_Full



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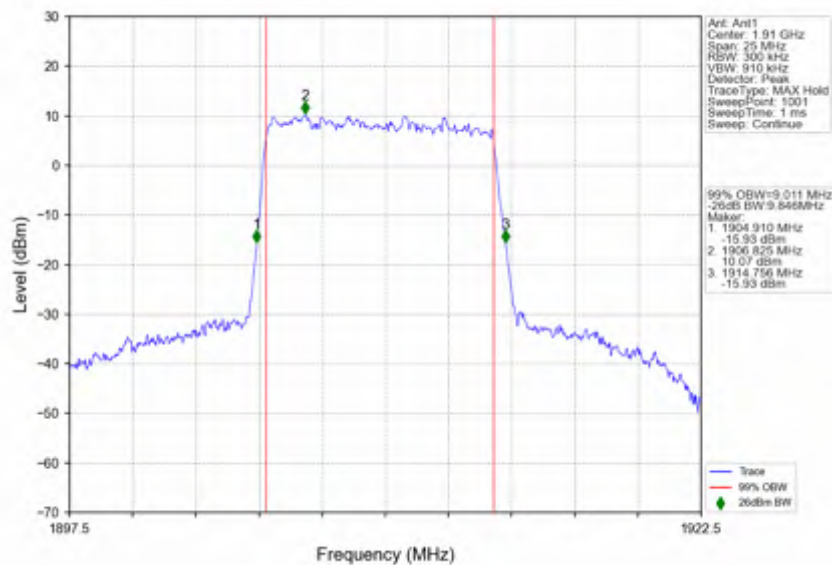
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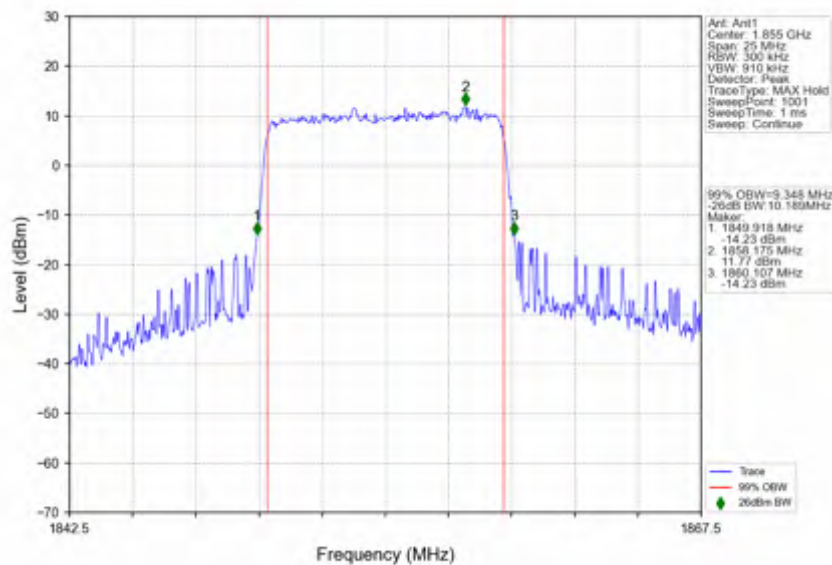
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n25_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM_256_QAM_1910MHz_Outer_Full



n25_15kHz_SISO_NTNV_10MHz_CP-OFDM_QPSK_1855MHz_Outer_Full



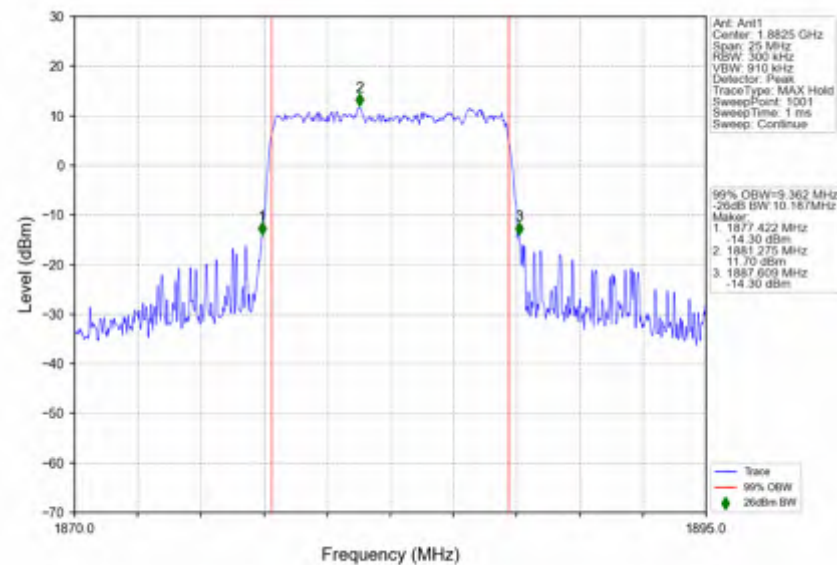
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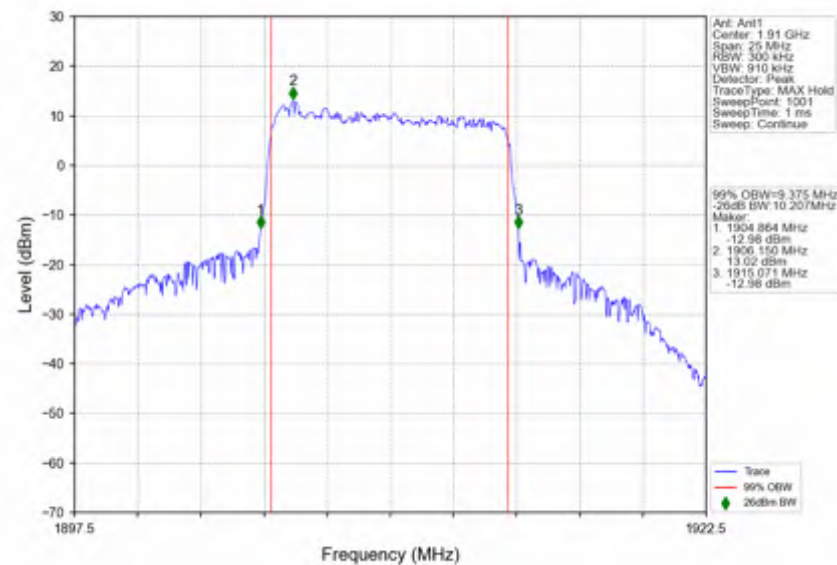
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n25_15kHz_SISO_NTNV_10MHz_CP-OFDM QPSK_1882.5MHz_Outer_Full



n25_15kHz_SISO_NTNV_10MHz_CP-OFDM QPSK_1910MHz_Outer_Full



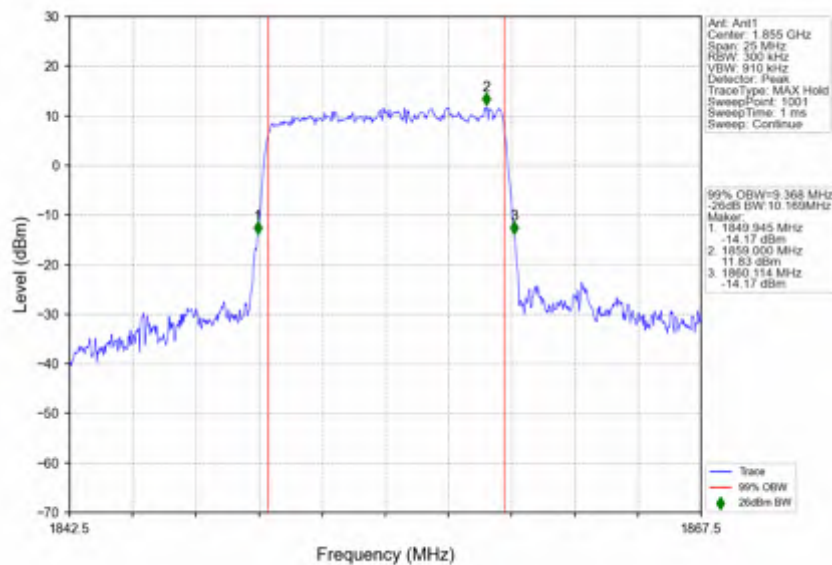
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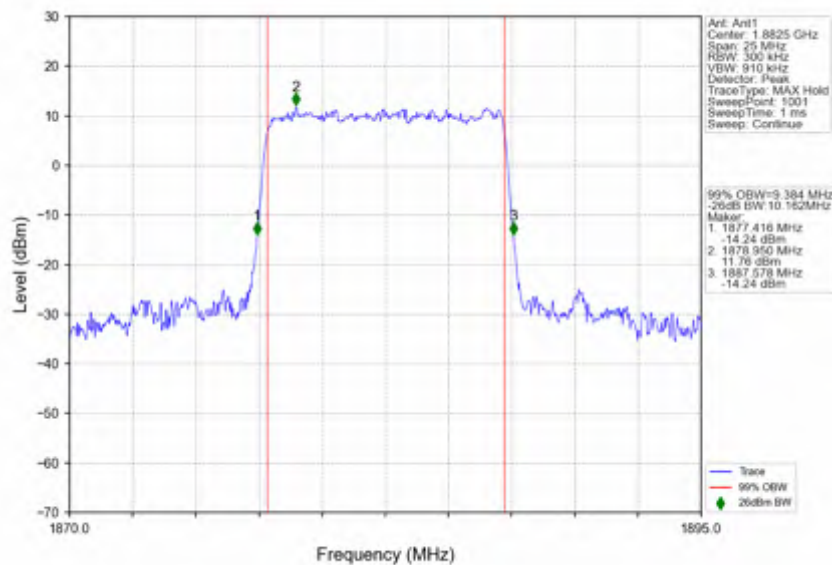
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n25_15kHz_SISO_NTNV_10MHz_CP-OFDM_16_QAM_1855MHz_Outer_Full



n25_15kHz_SISO_NTNV_10MHz_CP-OFDM_16_QAM_1882.5MHz_Outer_Full



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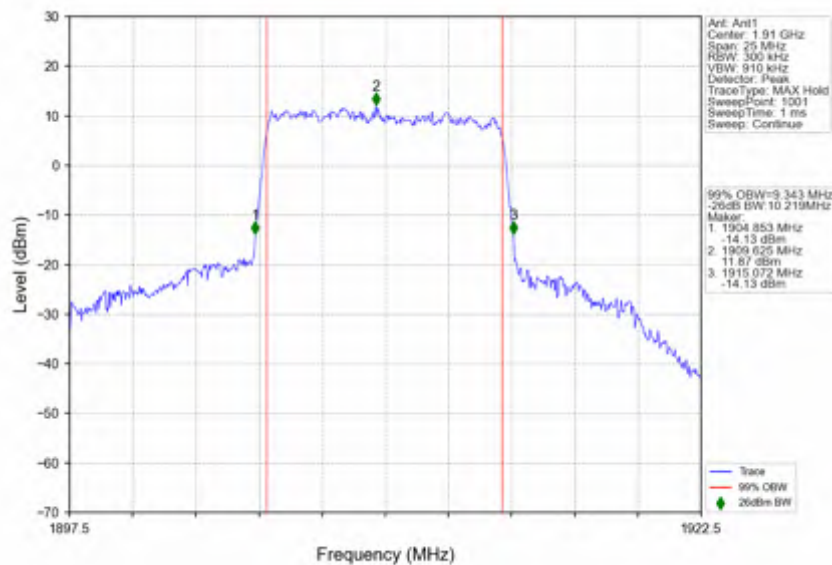
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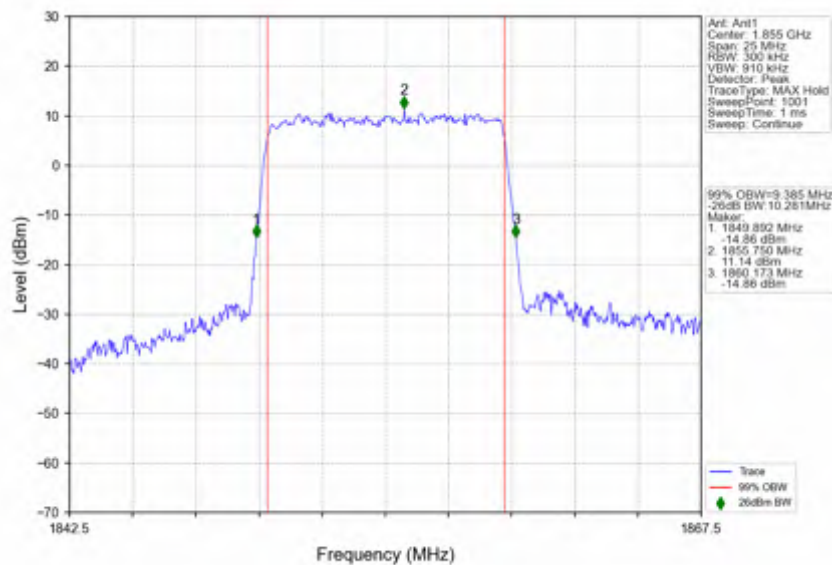
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n25_15kHz_SISO_NTNV_10MHz_CP-OFDM 16 QAM_1910MHz_Outer_Full



n25_15kHz_SISO_NTNV_10MHz_CP-OFDM 64 QAM_1855MHz_Outer_Full



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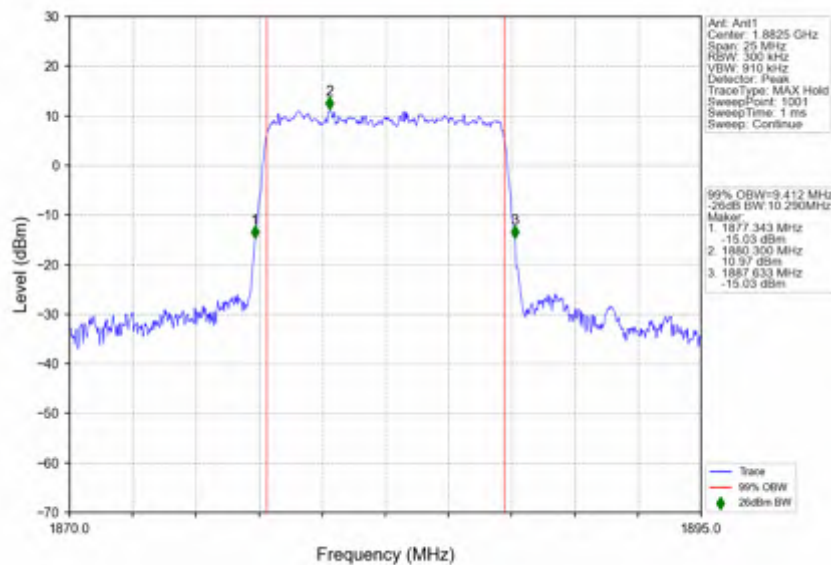
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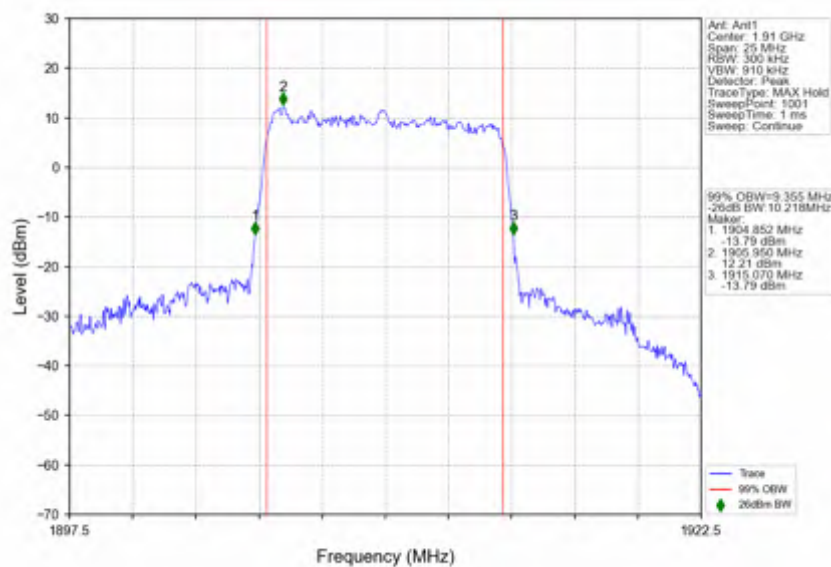
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n25	15kHz	SISO	NTNV	10MHz	CP-OFDM	64 QAM	1910MHz	Outer	Full
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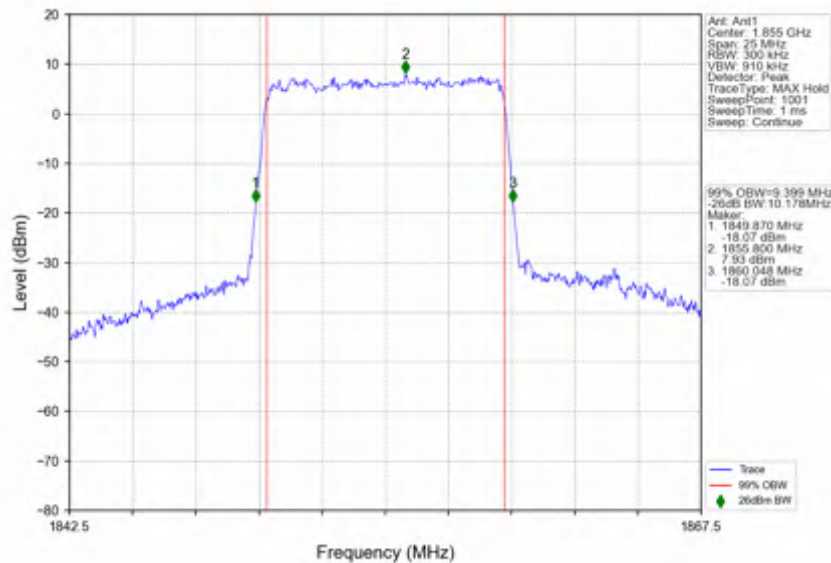


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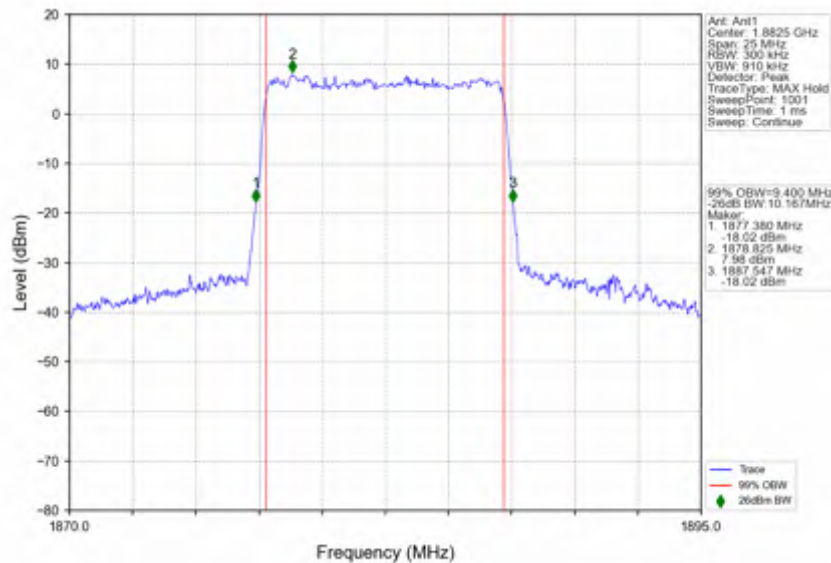
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n25_15kHz_SISO_NTNV_10MHz_CP-OFDM 256 QAM_1855MHz_Outer_Full



n25_15kHz_SISO_NTNV_10MHz_CP-OFDM 256 QAM_1882.5MHz_Outer_Full

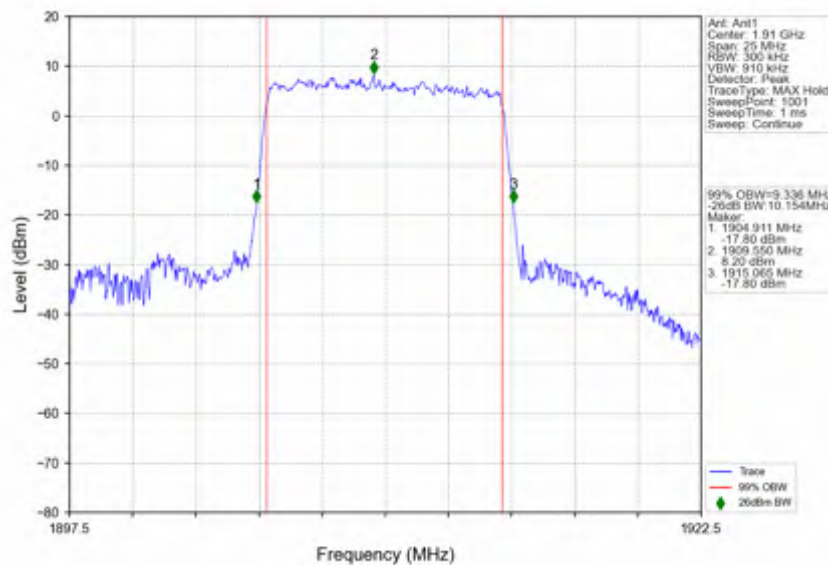


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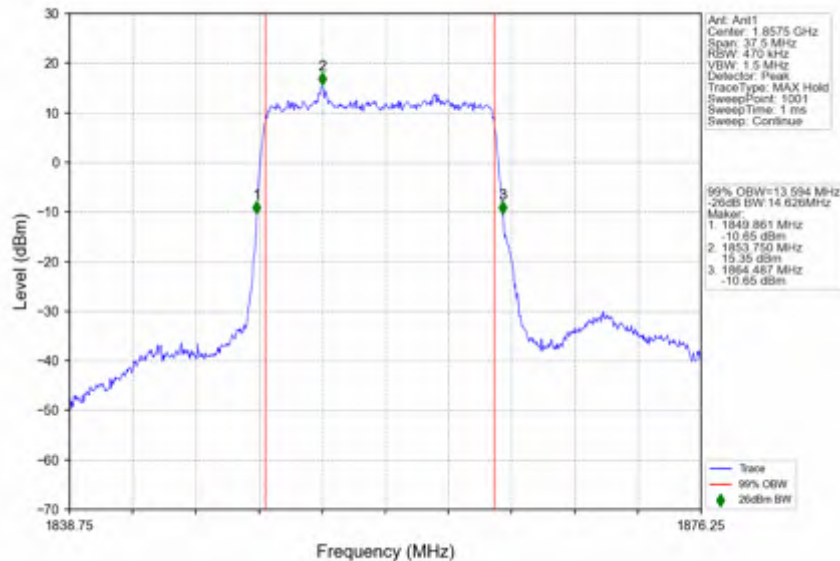
4.3 15k_SISO_15MHz_NTNV

4.3.1 Test Result

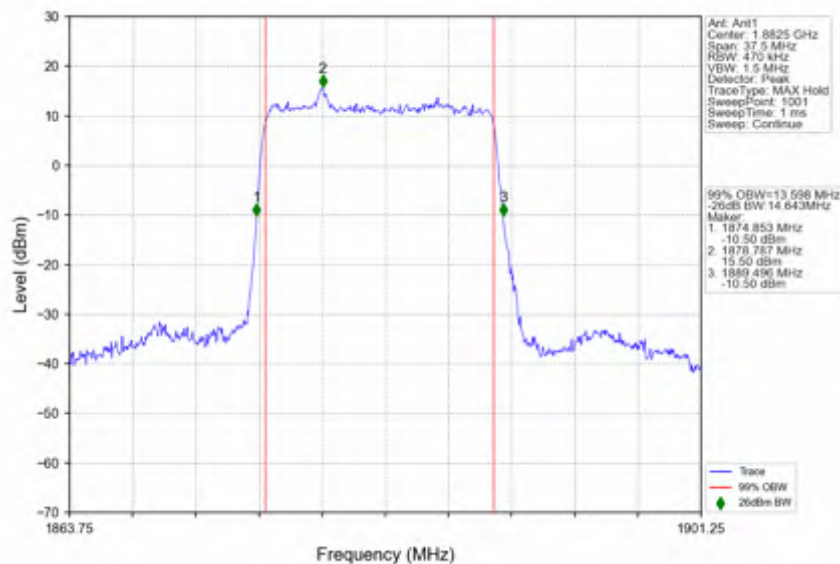
5G NR n25 SCS=15kHz SISO 15MHz NTN						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	1857.5	Outer_Full	13.59	14.63	/	Pass
	1882.5	Outer_Full	13.60	14.64	/	Pass
	1907.5	Outer_Full	13.58	14.63	/	Pass
DFT-s-OFDM QPSK	1857.5	Outer_Full	13.55	14.69	/	Pass
	1882.5	Outer_Full	13.52	14.68	/	Pass
	1907.5	Outer_Full	13.47	14.73	/	Pass
DFT-s-OFDM 16 QAM	1857.5	Outer_Full	13.52	14.69	/	Pass
	1882.5	Outer_Full	13.53	14.67	/	Pass
	1907.5	Outer_Full	13.49	14.65	/	Pass
DFT-s-OFDM 64 QAM	1857.5	Outer_Full	13.47	14.66	/	Pass
	1882.5	Outer_Full	13.49	14.64	/	Pass
	1907.5	Outer_Full	13.46	14.61	/	Pass
DFT-s-OFDM 256 QAM	1857.5	Outer_Full	13.56	14.64	/	Pass
	1882.5	Outer_Full	13.57	14.62	/	Pass
	1907.5	Outer_Full	13.53	14.66	/	Pass
CP-OFDM QPSK	1857.5	Outer_Full	14.18	15.29	/	Pass
	1882.5	Outer_Full	14.20	15.22	/	Pass
	1907.5	Outer_Full	14.16	15.22	/	Pass
CP-OFDM 16 QAM	1857.5	Outer_Full	14.19	15.27	/	Pass
	1882.5	Outer_Full	14.20	15.31	/	Pass
	1907.5	Outer_Full	14.16	15.24	/	Pass
CP-OFDM 64 QAM	1857.5	Outer_Full	14.24	15.29	/	Pass
	1882.5	Outer_Full	14.25	15.28	/	Pass
	1907.5	Outer_Full	14.25	15.23	/	Pass
CP-OFDM 256 QAM	1857.5	Outer_Full	14.23	15.28	/	Pass
	1882.5	Outer_Full	14.24	15.23	/	Pass
	1907.5	Outer_Full	14.20	15.23	/	Pass

4.3.2 Test Graph

n25_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM PI/2 BPSK_1857.5MHz_Outer_Full



n25_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM PI/2 BPSK_1882.5MHz_Outer_Full



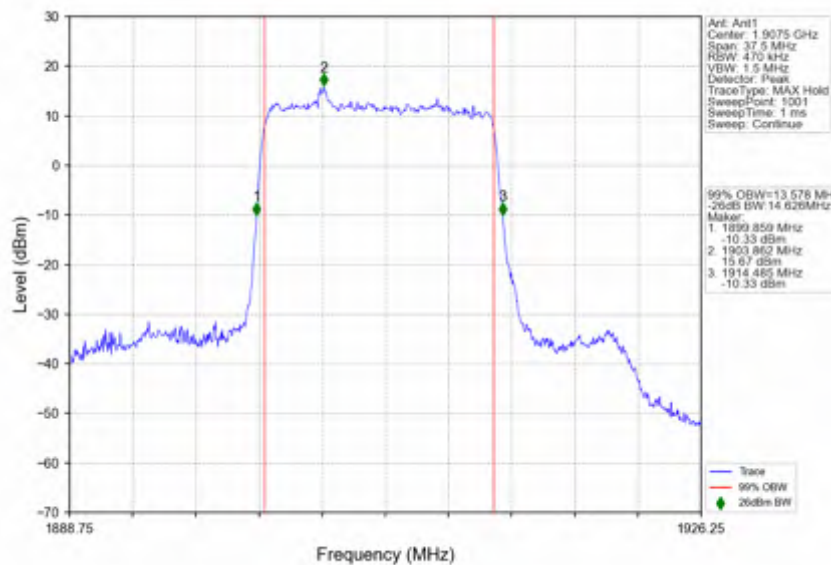
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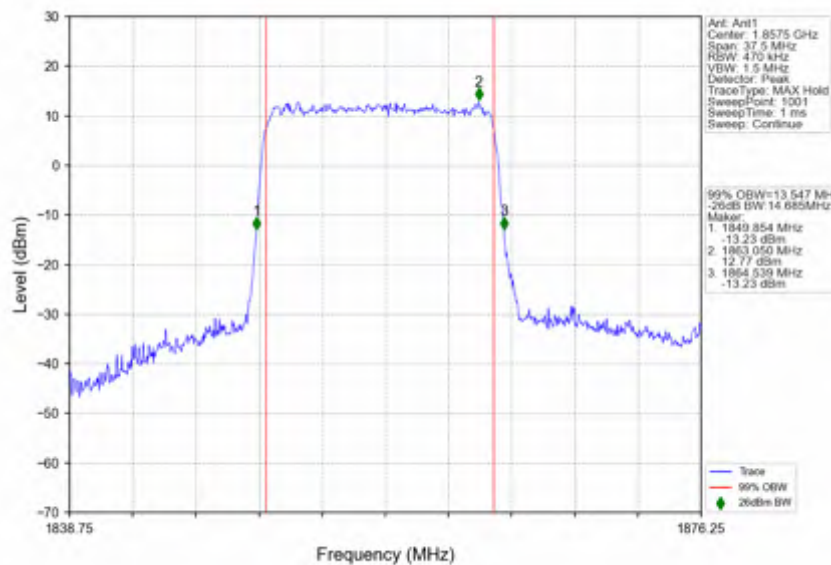
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n25_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM PI/2 BPSK_1907.5MHz_Outer_Full



n25_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM QPSK_1857.5MHz_Outer_Full



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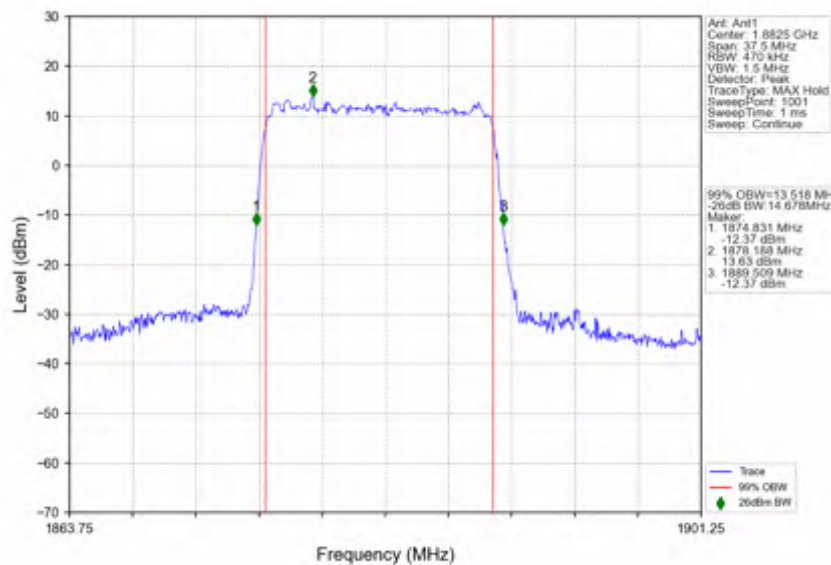
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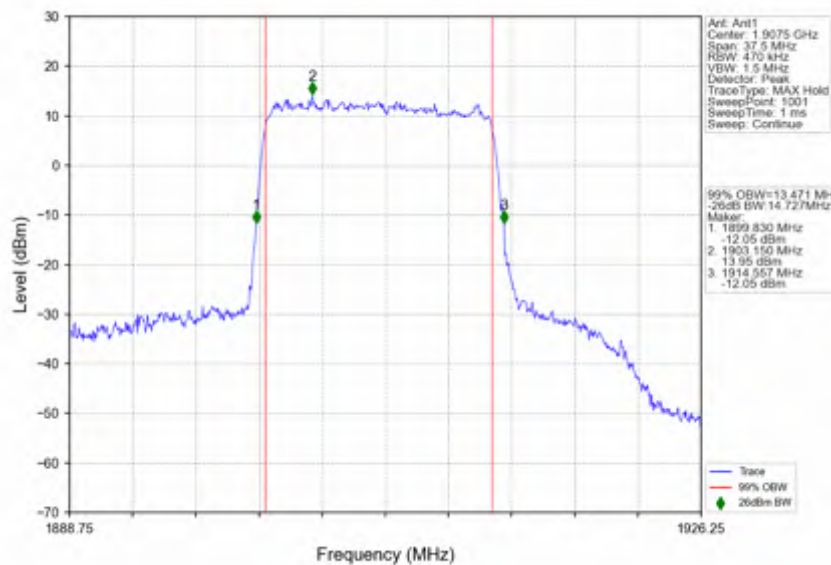
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n25_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM_QPSK_1882.5MHz_Outer_Full



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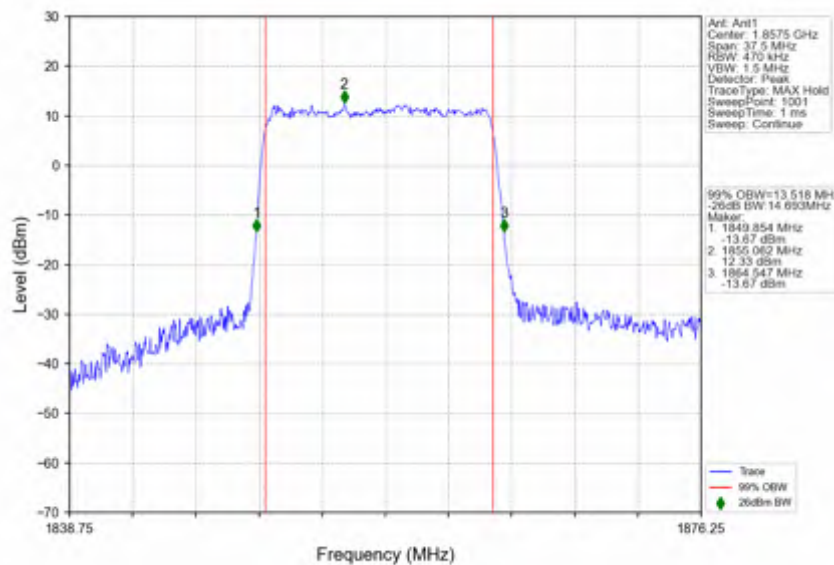
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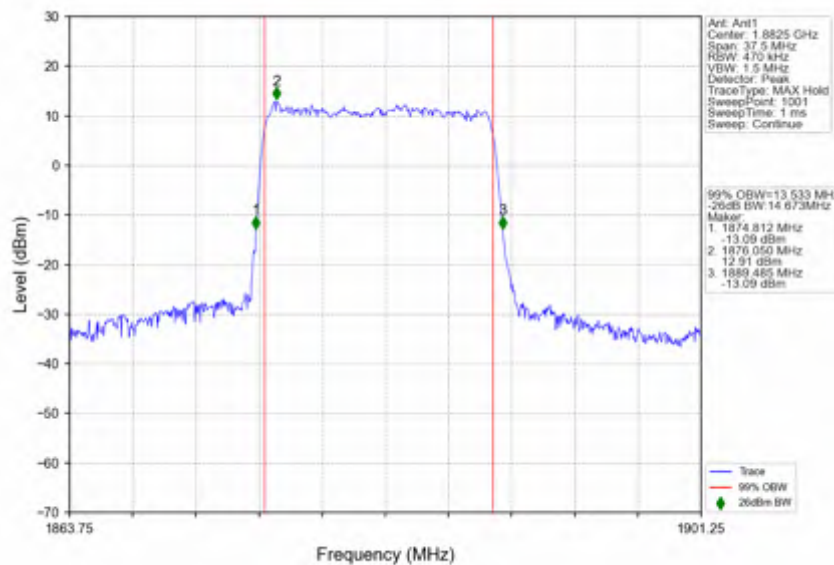
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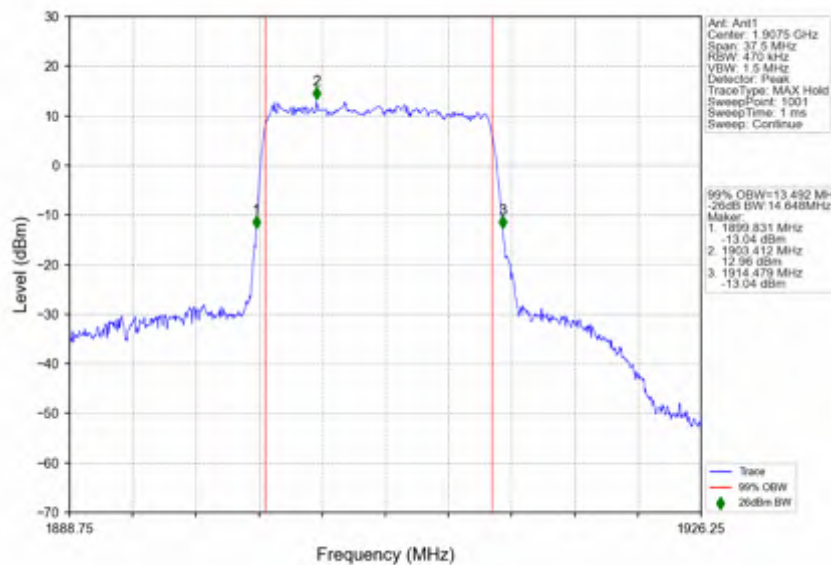
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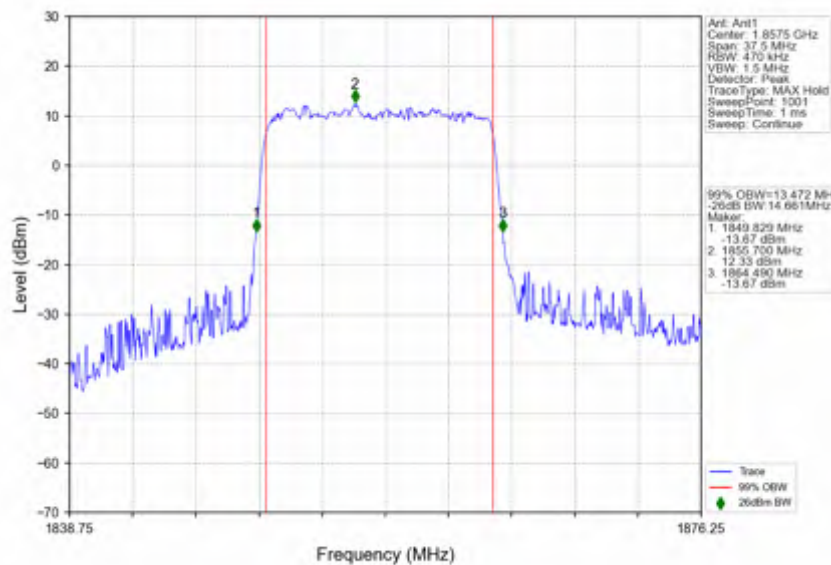
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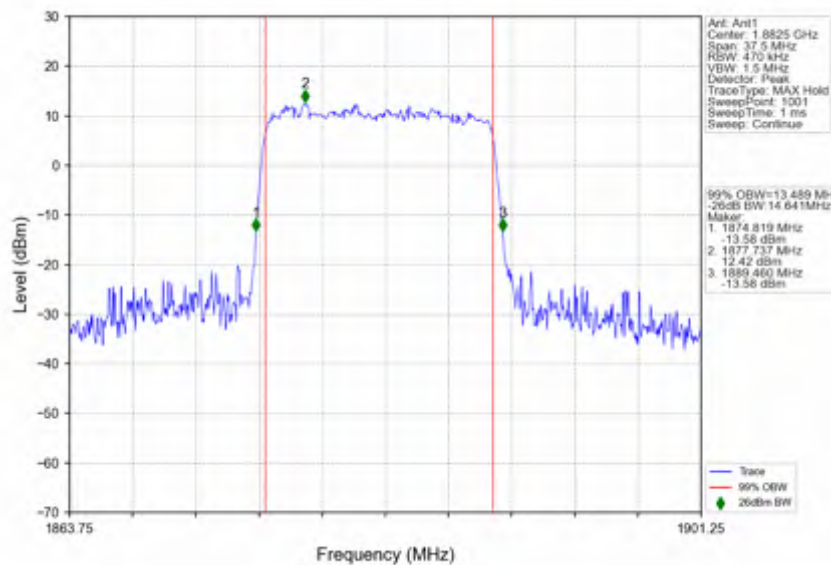
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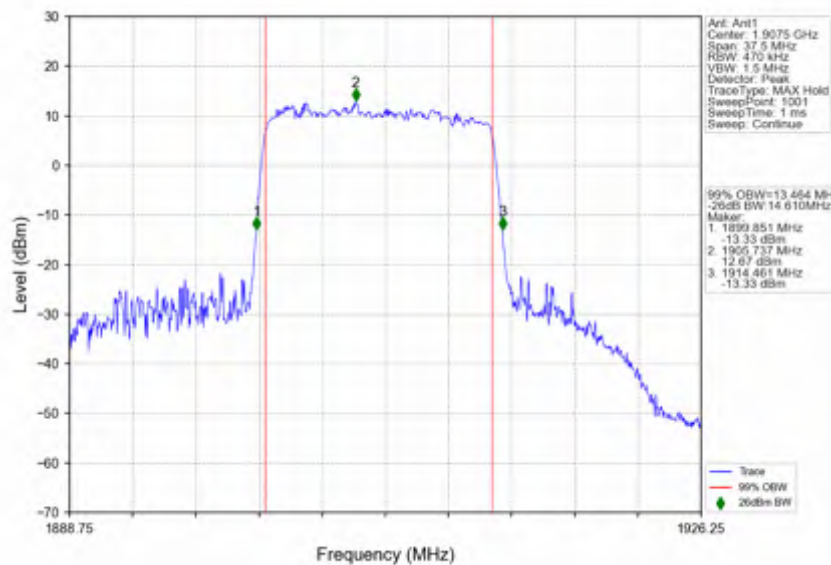
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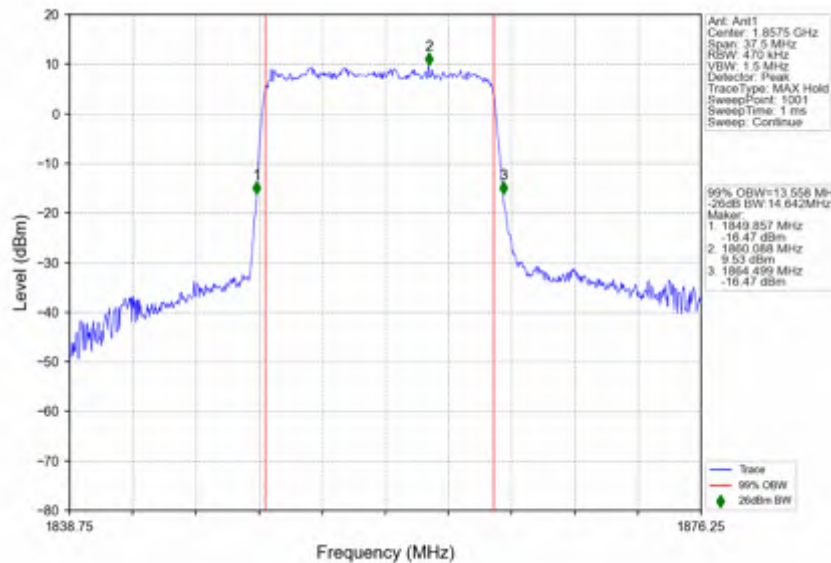
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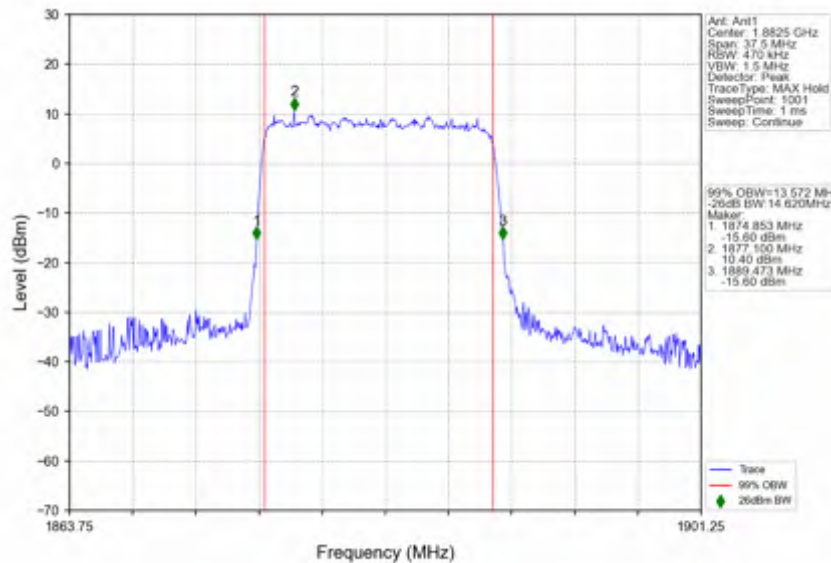
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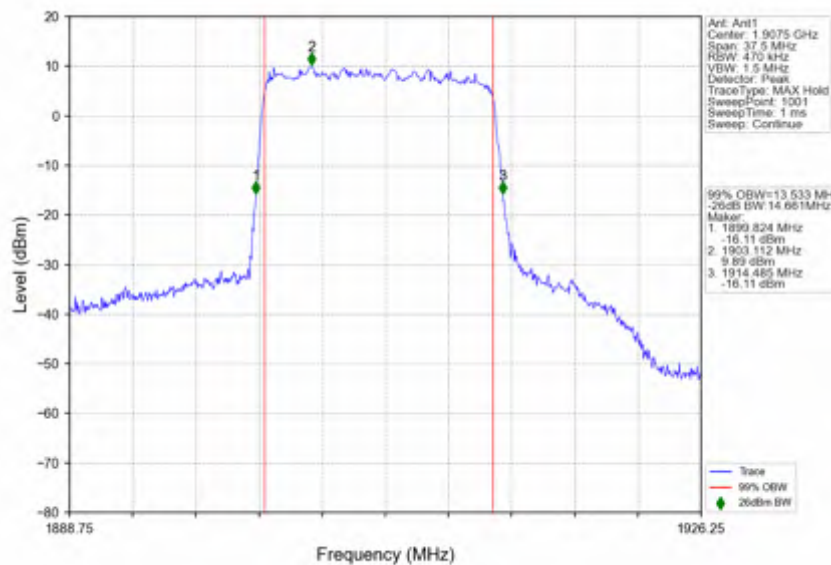
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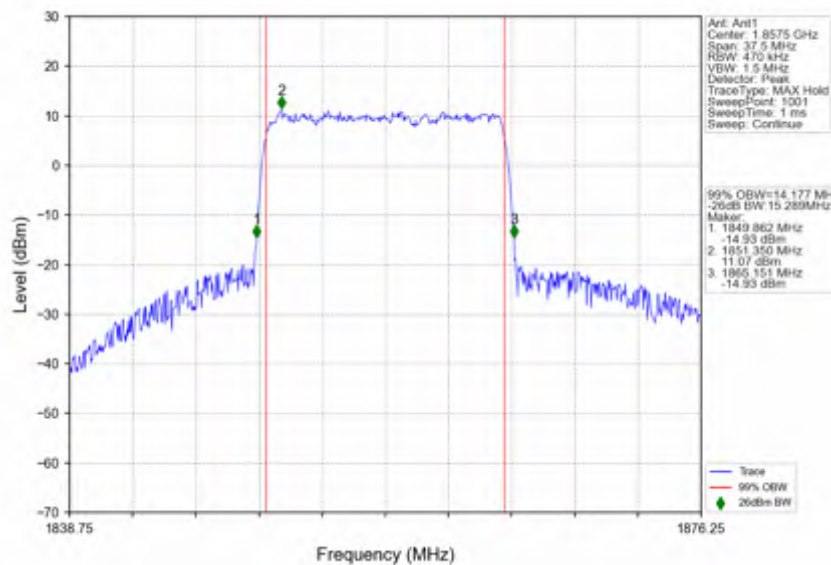
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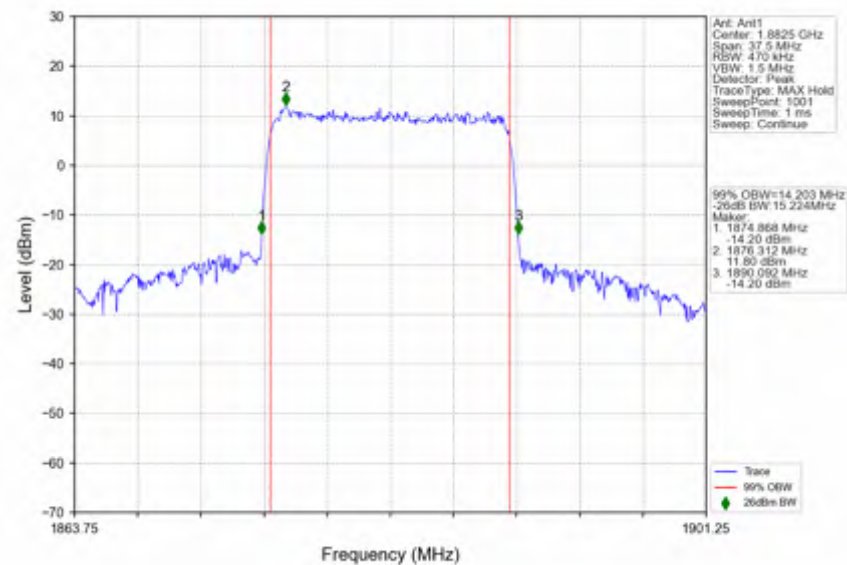
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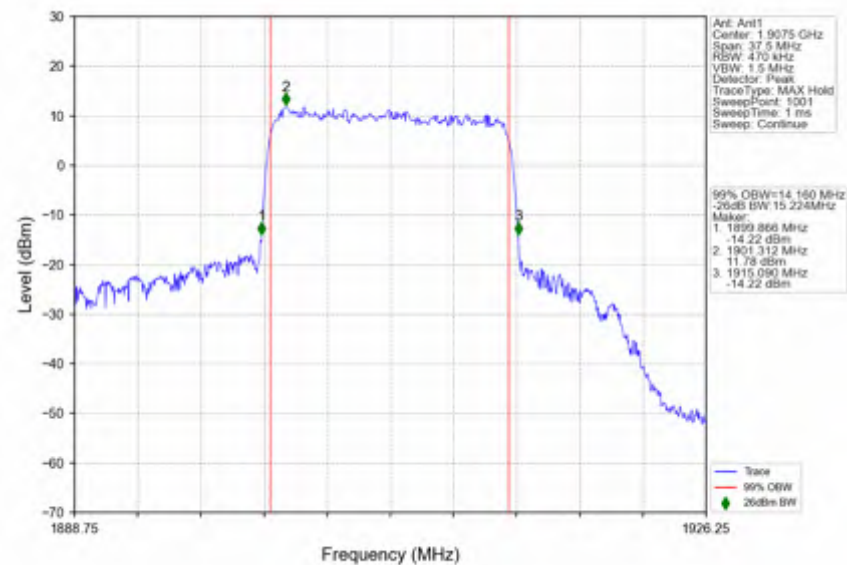
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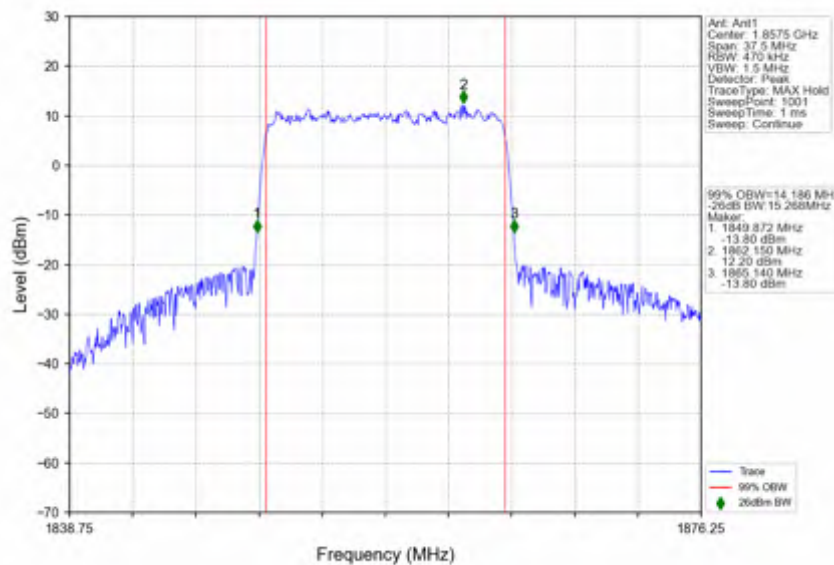
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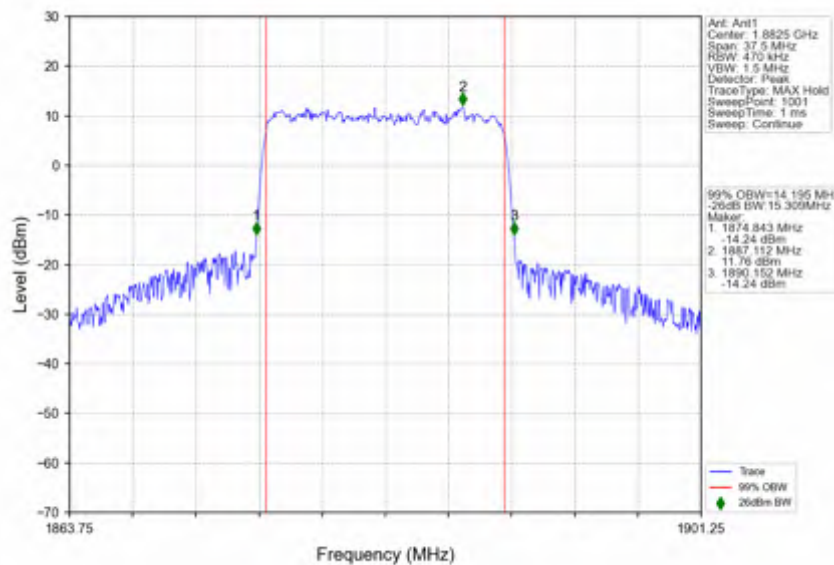
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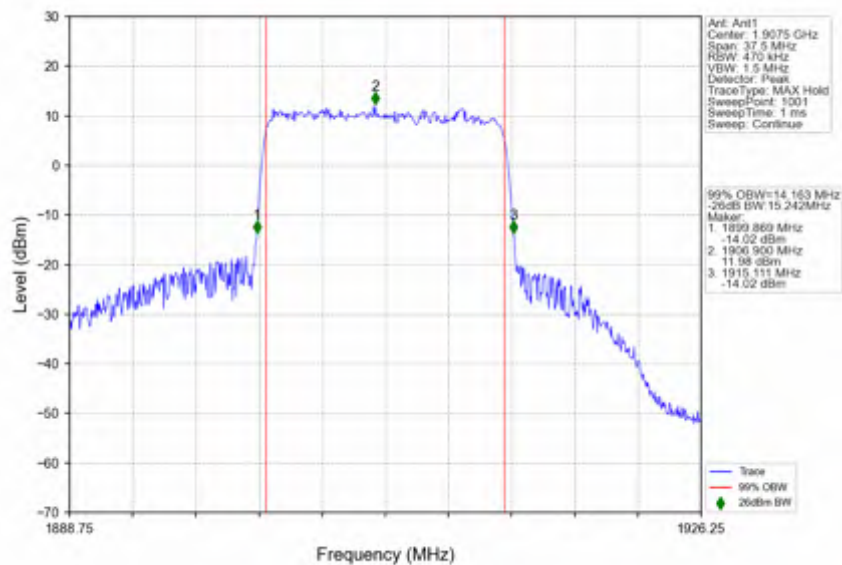
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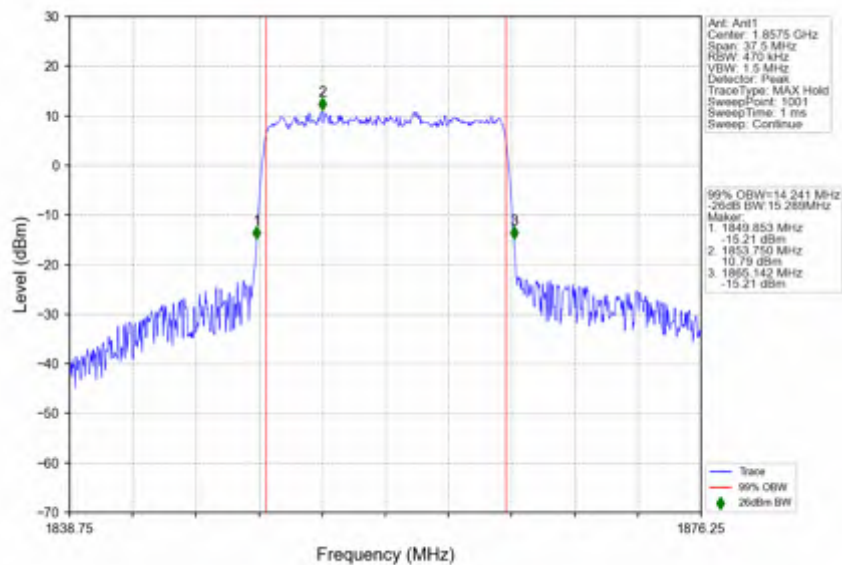
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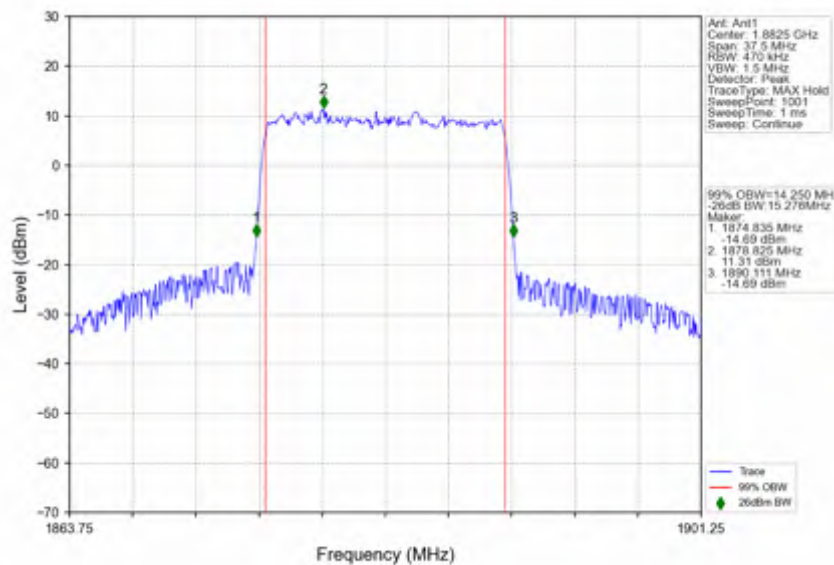
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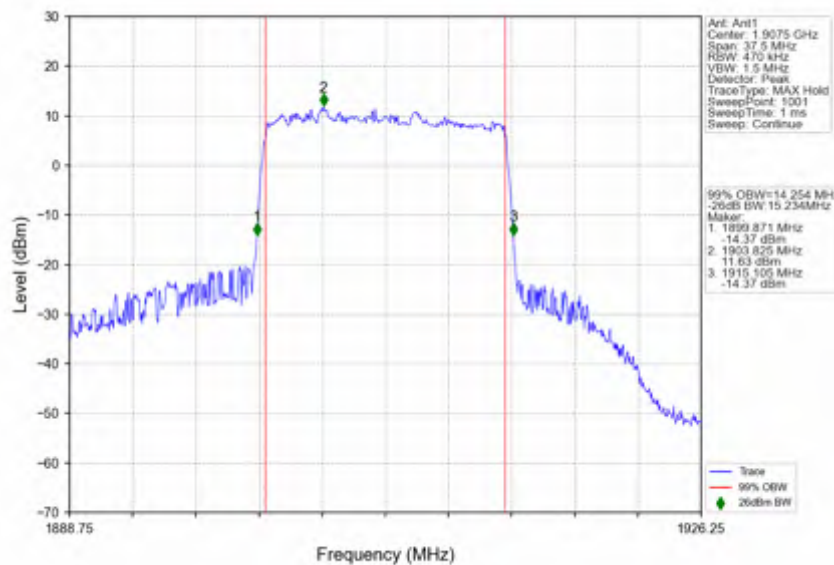
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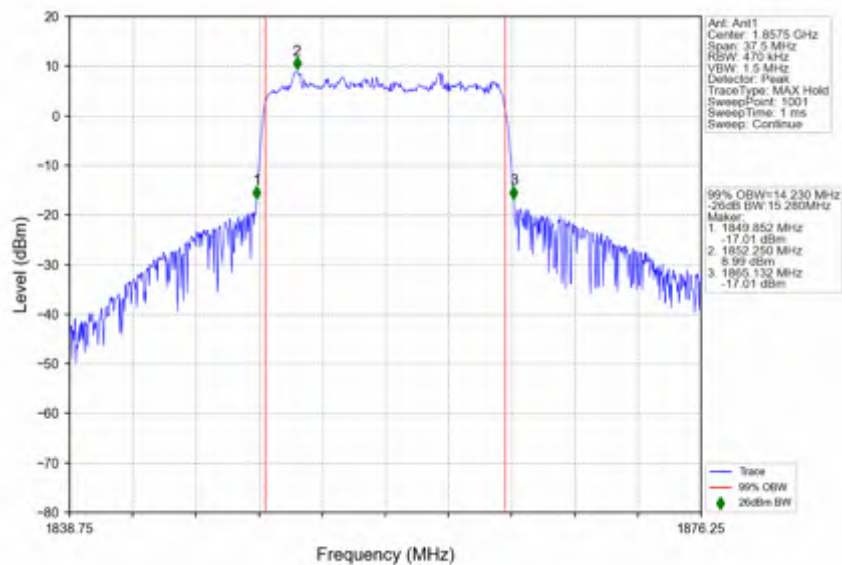
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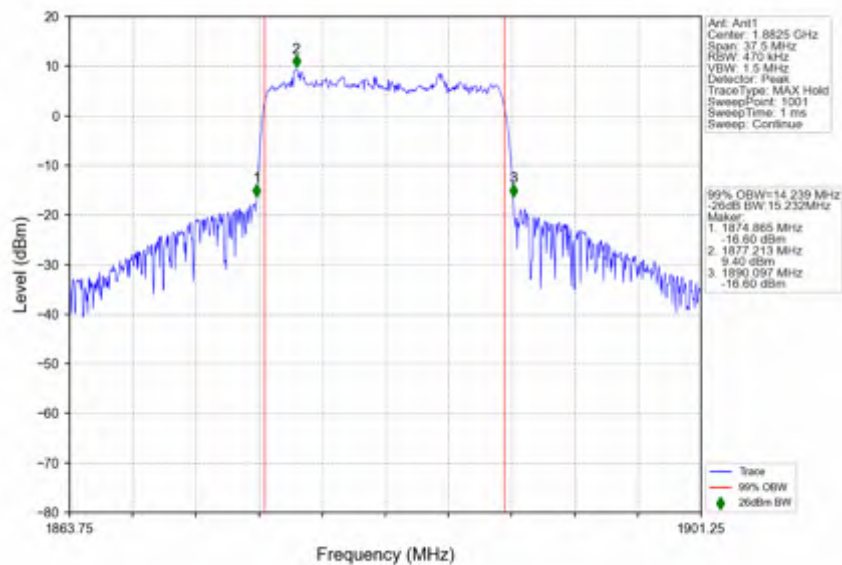
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n25_15kHz_SISO_NTNV_15MHz_CP-OFDM_256_QAM_1857.5MHz_Outer_Full



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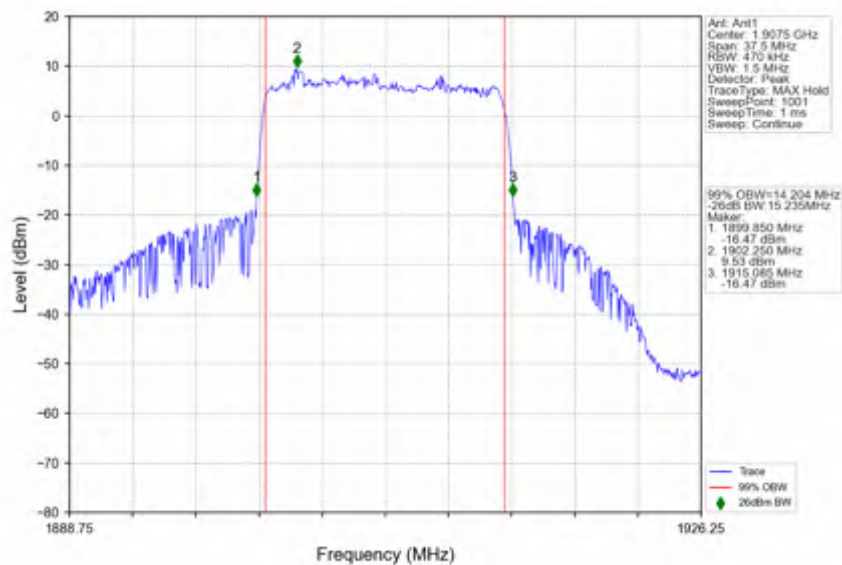
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n25_15kHz_SISO_NTNV_15MHz_CP-OFDM_256_QAM_1907.5MHz_Outer_Full



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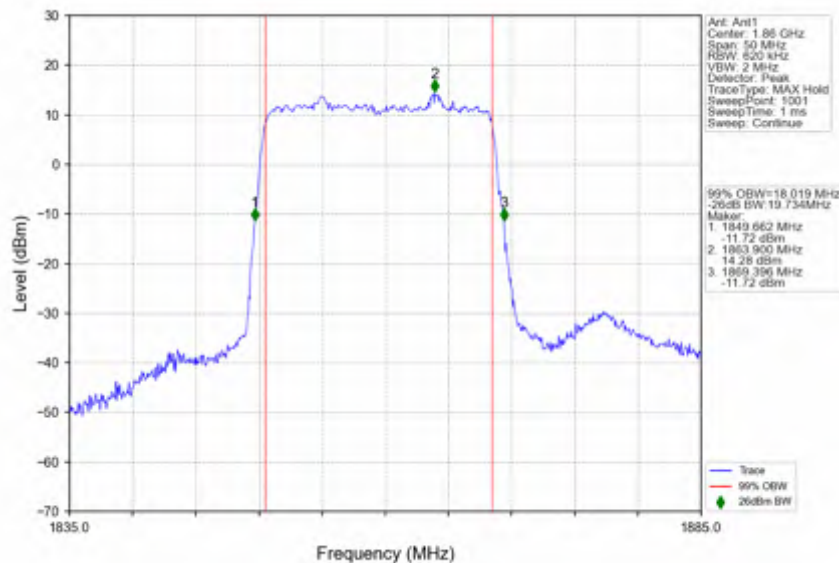
4.4 15k_SISO_20MHz_NTNV

4.4.1 Test Result

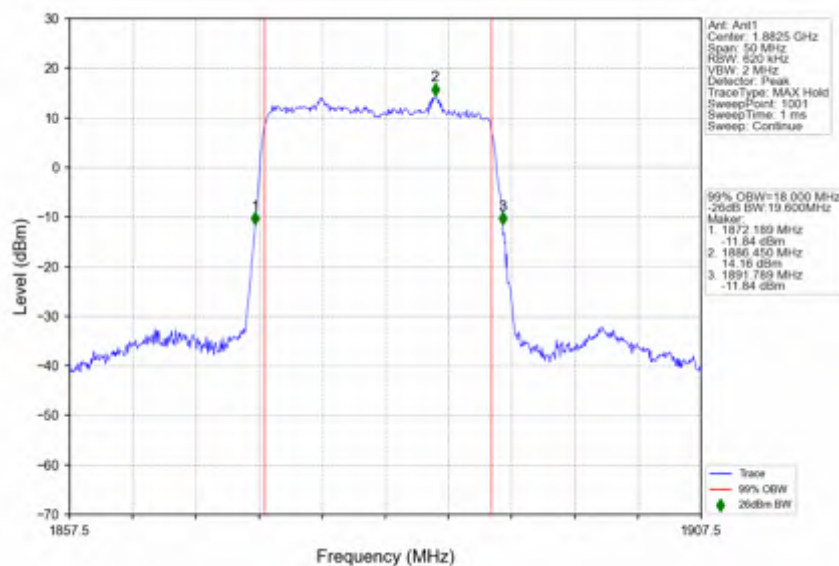
5G NR n25 SCS=15kHz SISO 20MHz NTNV						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	1860	Outer_Full	18.02	19.73	/	Pass
	1882.5	Outer_Full	18.00	19.60	/	Pass
	1905	Outer_Full	17.98	19.59	/	Pass
DFT-s-OFDM QPSK	1860	Outer_Full	18.09	19.66	/	Pass
	1882.5	Outer_Full	18.07	19.68	/	Pass
	1905	Outer_Full	18.05	19.63	/	Pass
DFT-s-OFDM 16 QAM	1860	Outer_Full	18.05	19.67	/	Pass
	1882.5	Outer_Full	18.01	19.63	/	Pass
	1905	Outer_Full	17.98	19.61	/	Pass
DFT-s-OFDM 64 QAM	1860	Outer_Full	18.07	19.72	/	Pass
	1882.5	Outer_Full	18.04	19.64	/	Pass
	1905	Outer_Full	18.02	19.71	/	Pass
DFT-s-OFDM 256 QAM	1860	Outer_Full	18.03	19.69	/	Pass
	1882.5	Outer_Full	18.02	19.67	/	Pass
	1905	Outer_Full	17.97	19.65	/	Pass
CP-OFDM QPSK	1860	Outer_Full	19.07	20.55	/	Pass
	1882.5	Outer_Full	19.10	20.61	/	Pass
	1905	Outer_Full	19.06	20.56	/	Pass
CP-OFDM 16 QAM	1860	Outer_Full	19.03	20.53	/	Pass
	1882.5	Outer_Full	19.07	20.45	/	Pass
	1905	Outer_Full	19.01	20.45	/	Pass
CP-OFDM 64 QAM	1860	Outer_Full	19.08	20.64	/	Pass
	1882.5	Outer_Full	19.09	20.62	/	Pass
	1905	Outer_Full	19.00	20.60	/	Pass
CP-OFDM 256 QAM	1860	Outer_Full	19.05	20.51	/	Pass
	1882.5	Outer_Full	19.01	20.44	/	Pass
	1905	Outer_Full	18.98	20.58	/	Pass

4.4.2 Test Graph

n25_15kHz_SISO_NTNV_20MHz_DFT-s-OFDM_PI/2_BPSK_1860MHz_Outer_Full



n25_15kHz_SISO_NTNV_20MHz_DFT-s-OFDM_PI/2_BPSK_1882.5MHz_Outer_Full



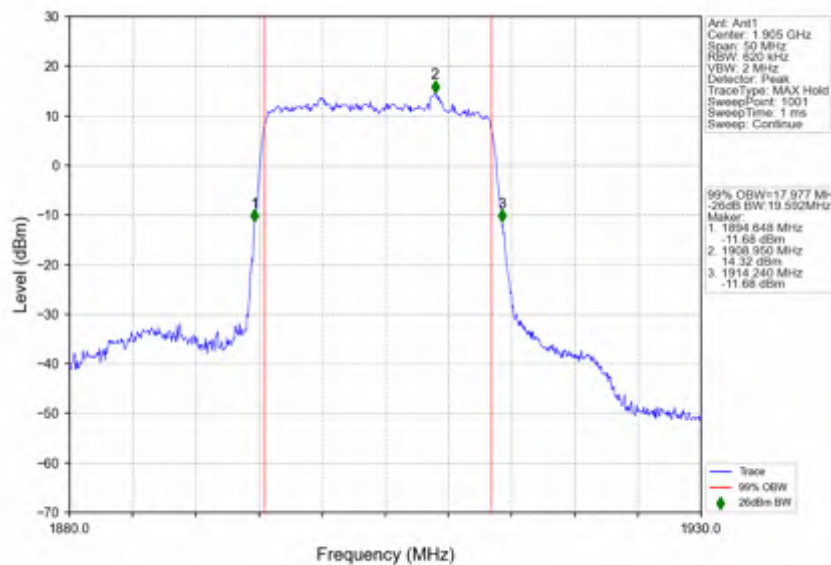
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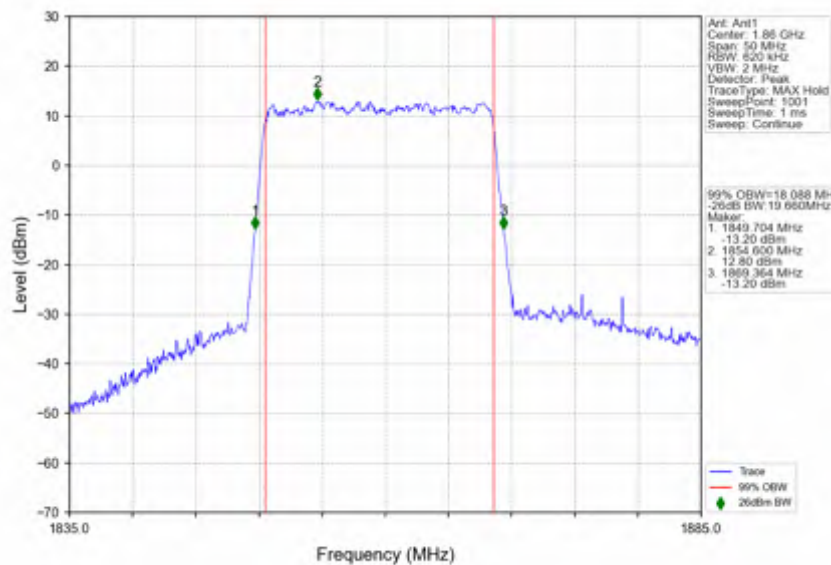
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n25_15kHz_SISO_NTNV_20MHz_DFT-s-OFDM PI/2 BPSK_1905MHz_Outer_Full



n25_15kHz_SISO_NTNV_20MHz_DFT-s-OFDM QPSK_1860MHz_Outer_Full



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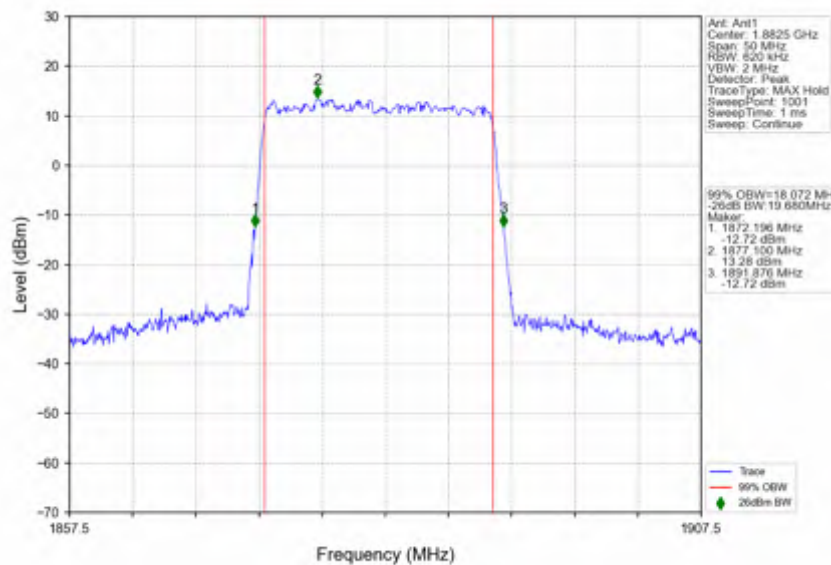
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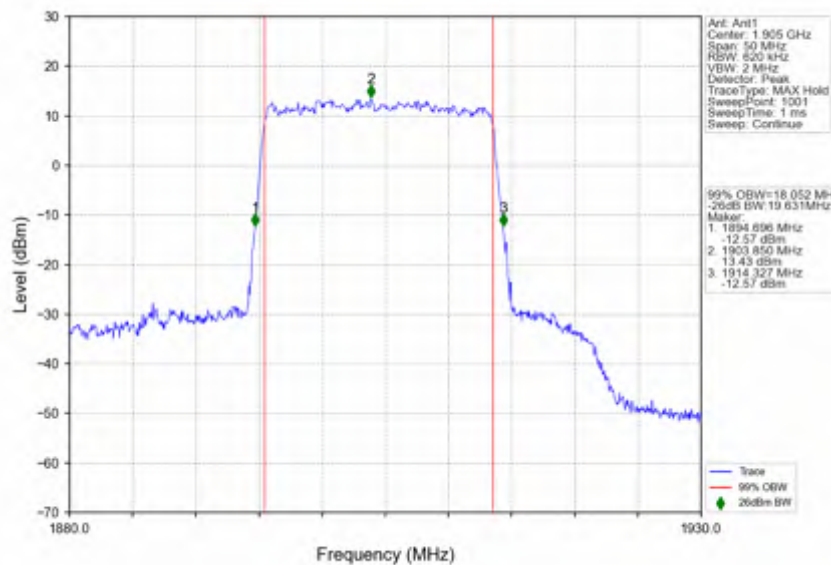
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n25_15kHz_SISO_NTNV_20MHz_DFT-s-OFDM_QPSK_1905MHz_Outer_Full



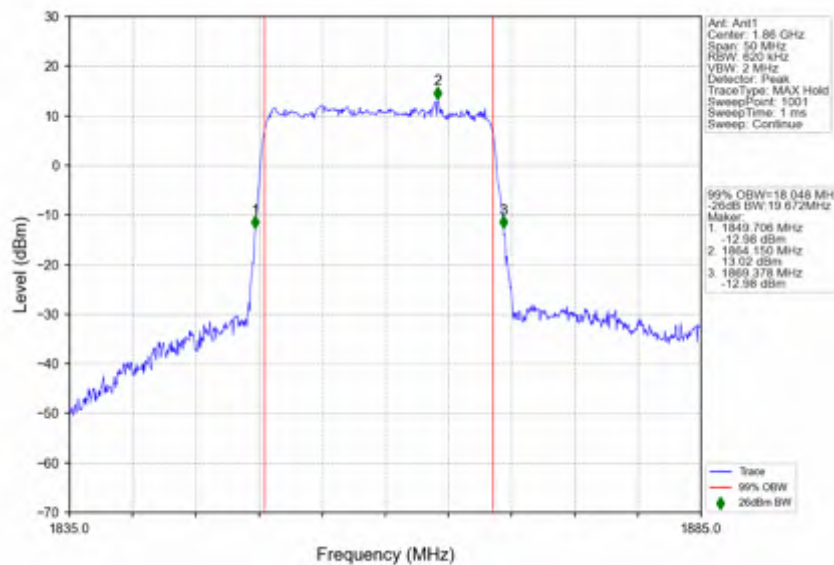
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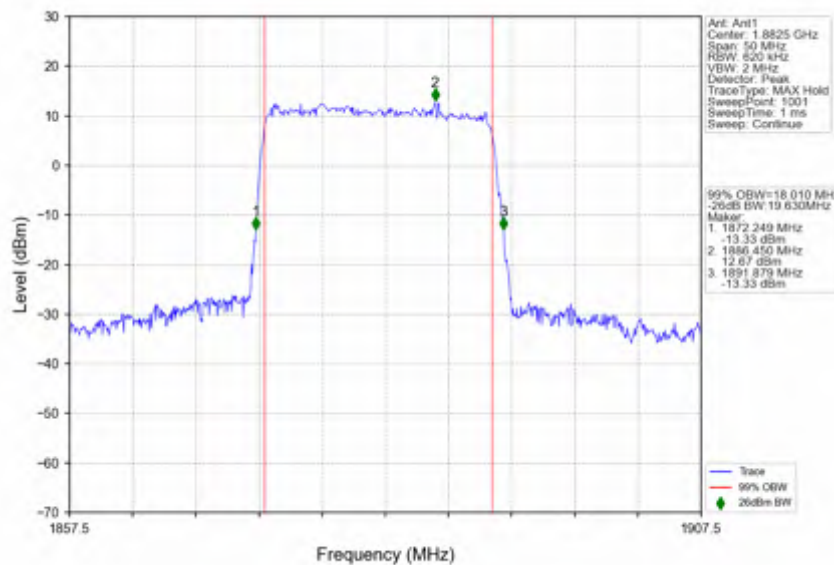
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n25_15kHz_SISO_NTNV_20MHz_DFT-s-OFDM_16 QAM_1882.5MHz_Outer_Full



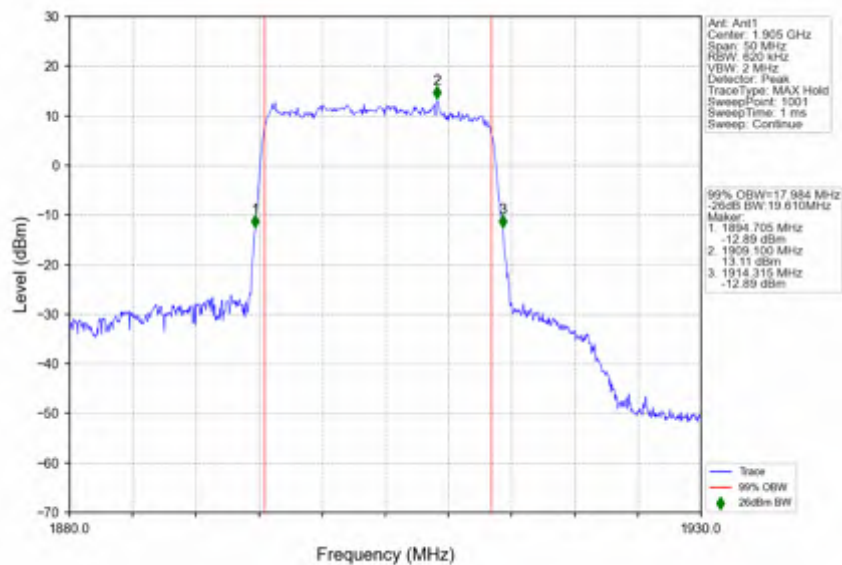
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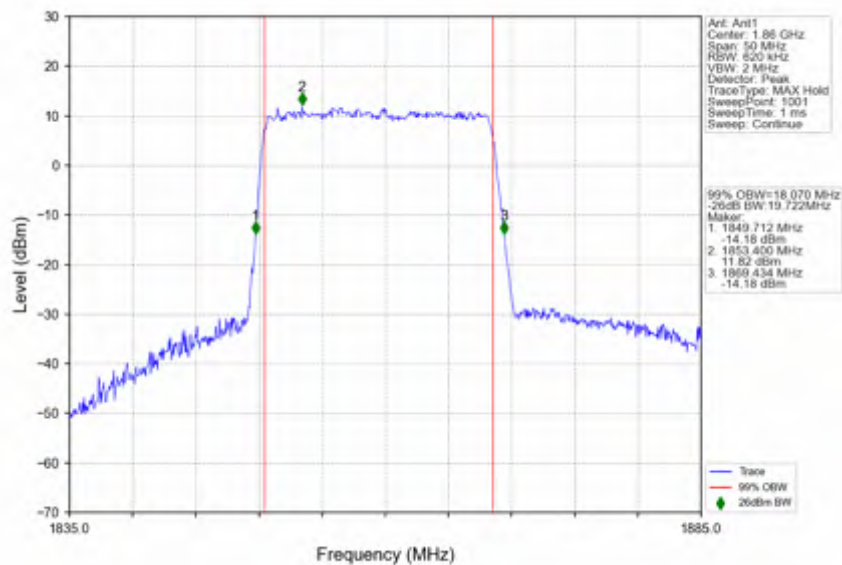
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n25_15kHz_SISO_NTNV_20MHz_DFT-s-OFDM_64_QAM_1860MHz_Outer_Full

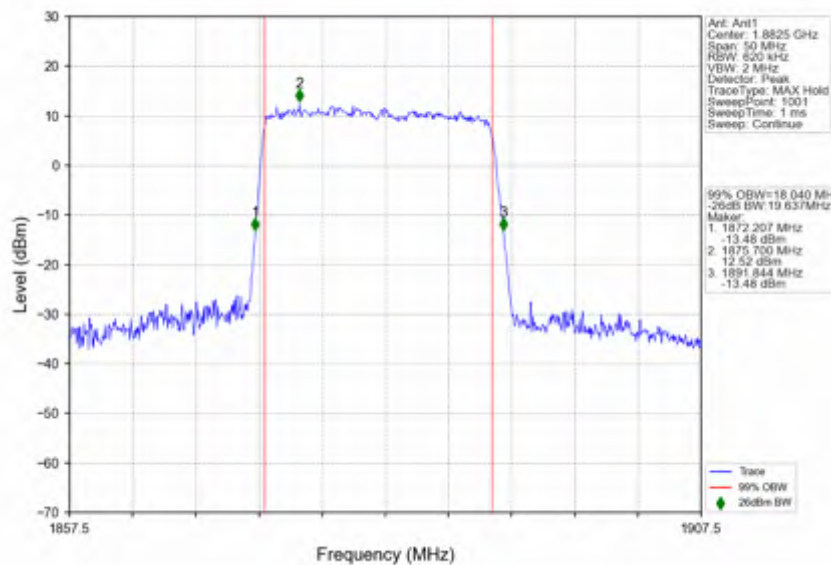


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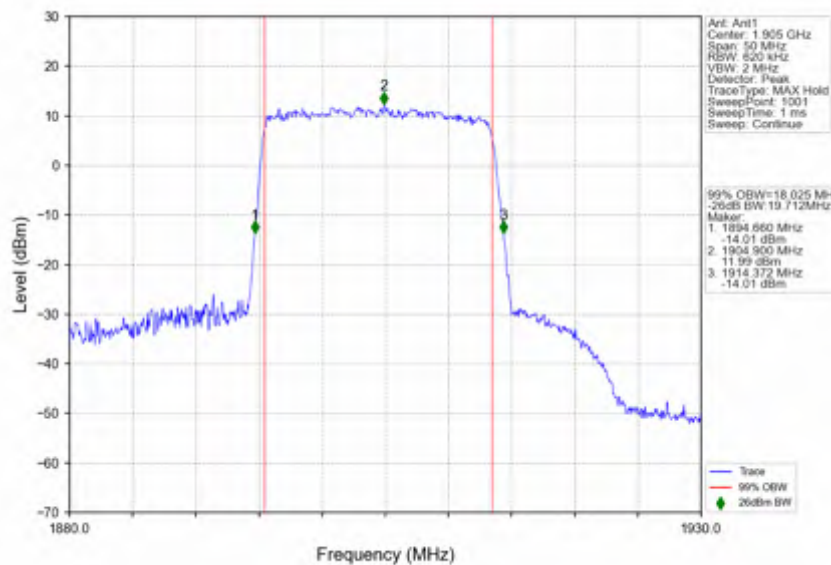
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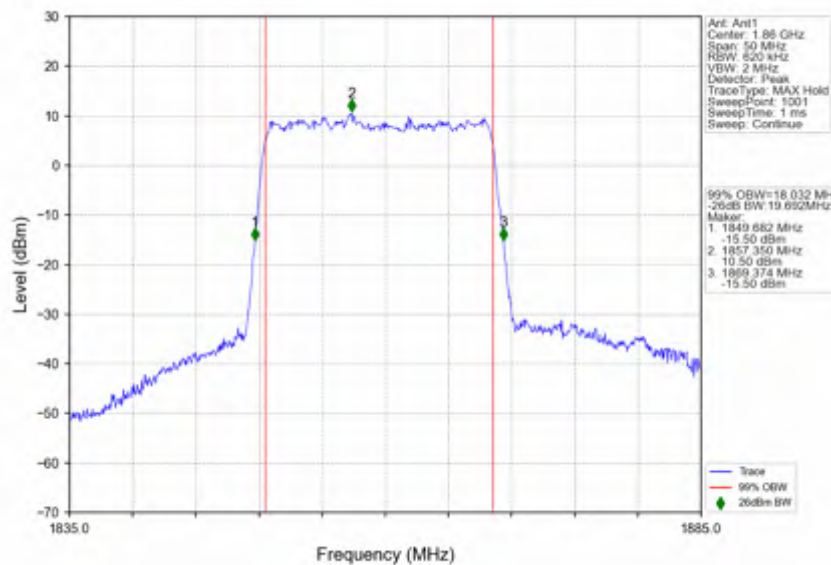
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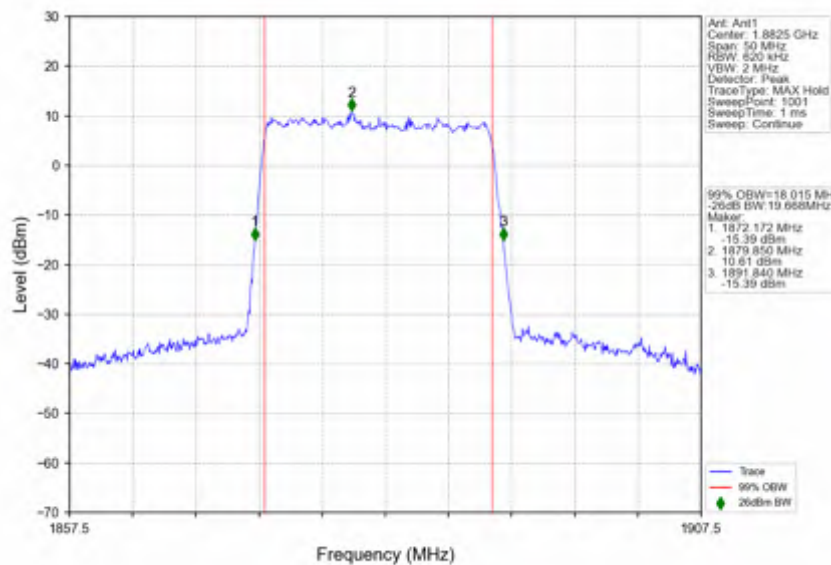
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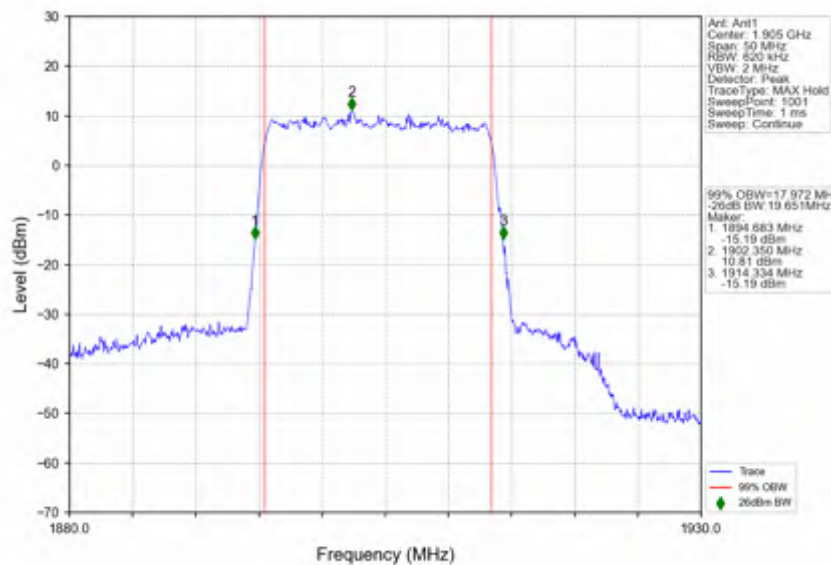
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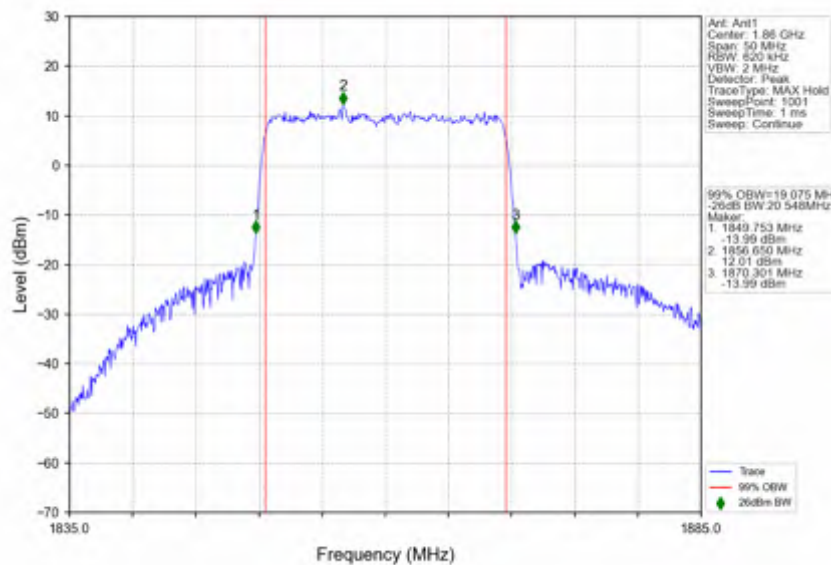
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n25_15kHz_SISO_NTNV_20MHz_CP-OFDM QPSK_1860MHz_Outer_Full



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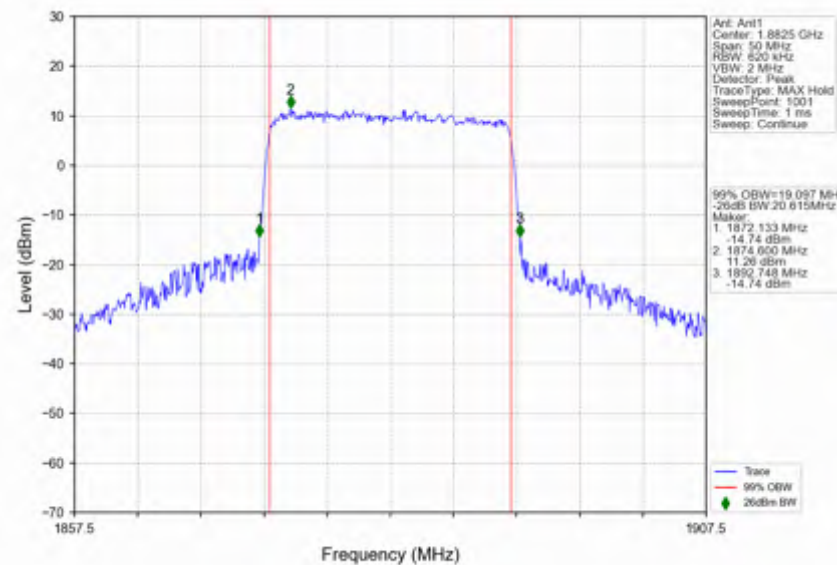
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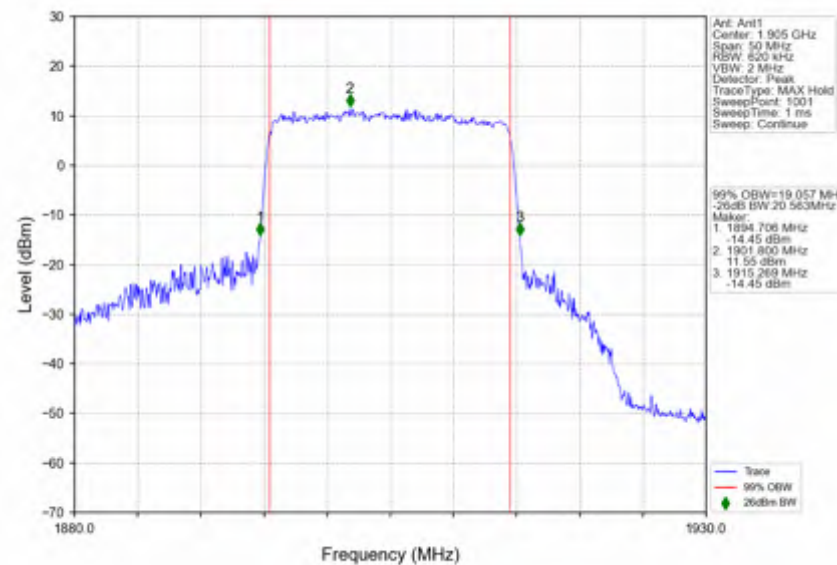
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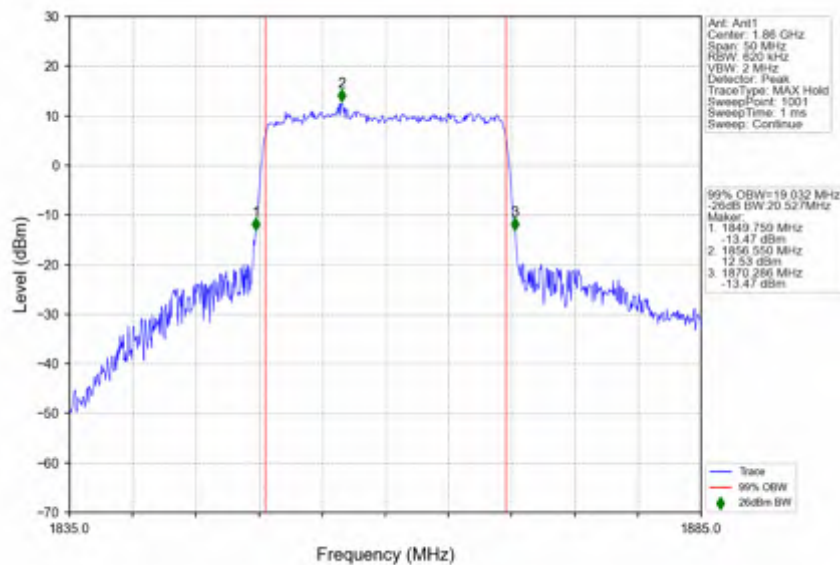
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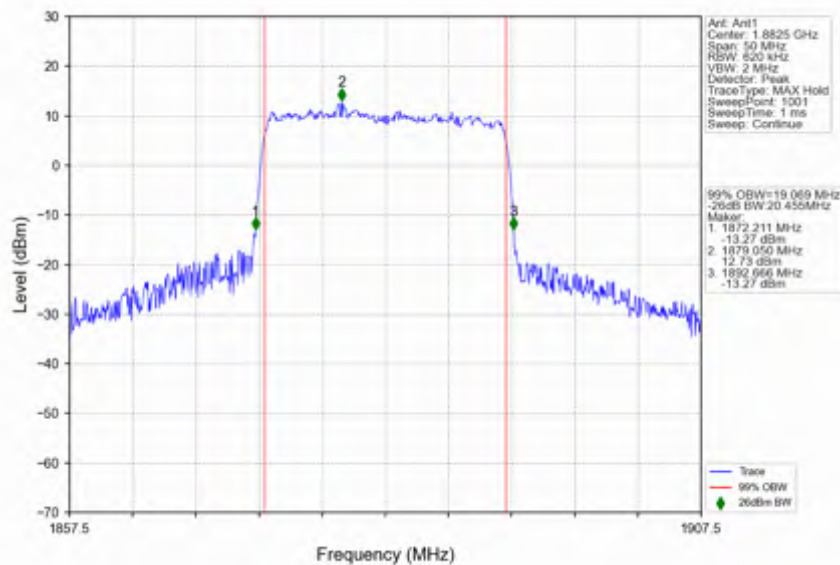
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n25_15kHz_SISO_NTNV_20MHz_CP-OFDM_16_QAM_1860MHz_Outer_Full



n25_15kHz_SISO_NTNV_20MHz_CP-OFDM_16_QAM_1882.5MHz_Outer_Full



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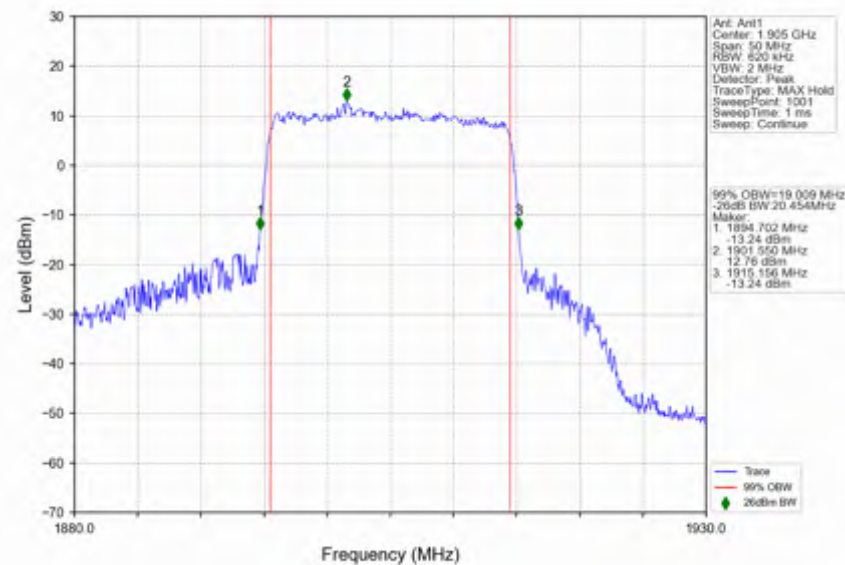
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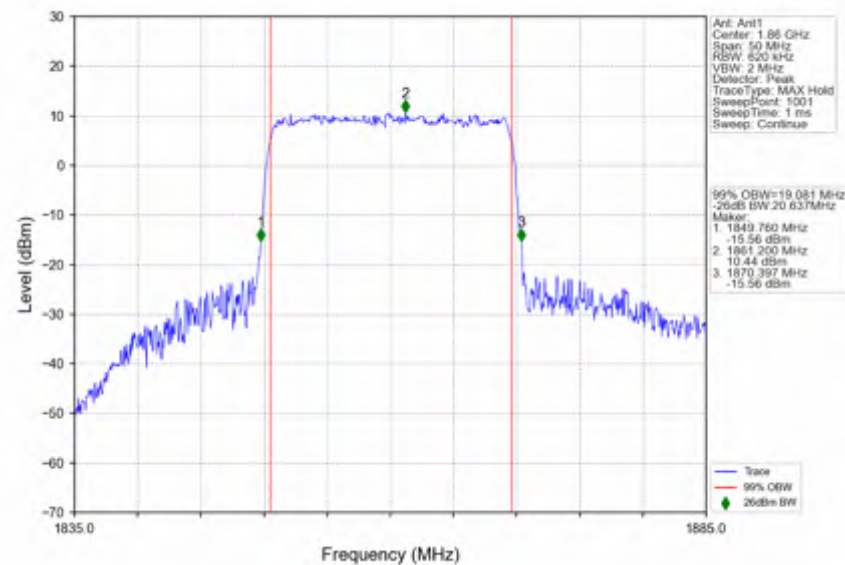
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n25 15kHz SISO NTN 20MHz CP-OFDM 16 QAM 1905MHz Outer Full



n25_15kHz_SISO_NTNV_20MHz_CP-OFDM_64_QAM_1860MHz_Outer_Full

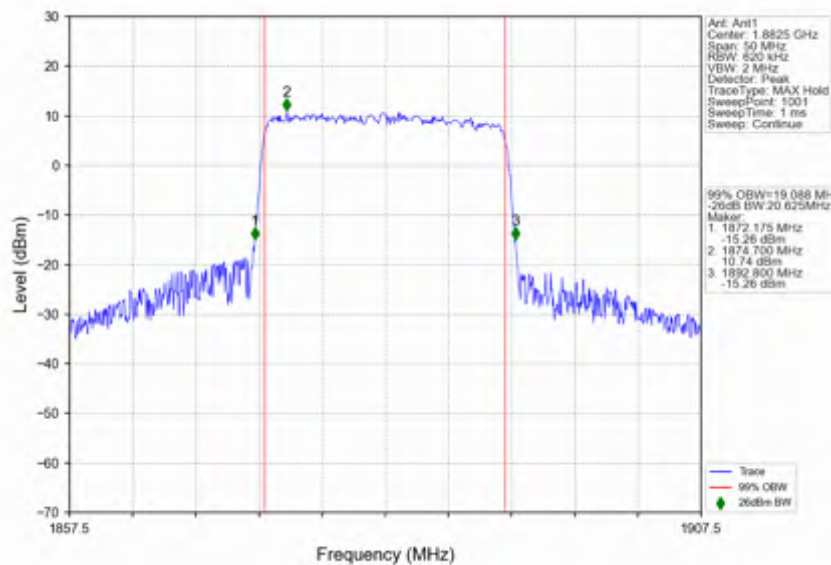


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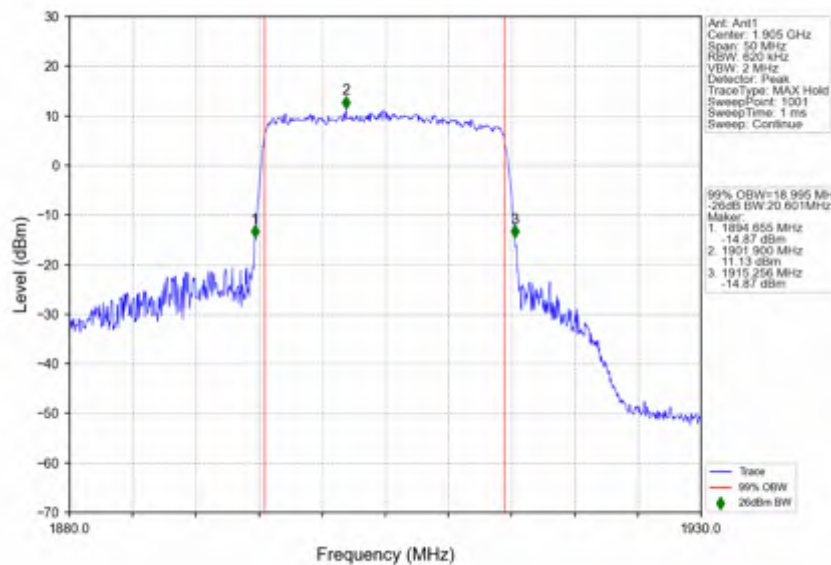
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n25_15kHz_SISO_NTNV_20MHz_CP-OFDM 64 QAM_1882.5MHz_Outer_Full



n25_15kHz_SISO_NTNV_20MHz_CP-OFDM 64 QAM_1905MHz_Outer_Full



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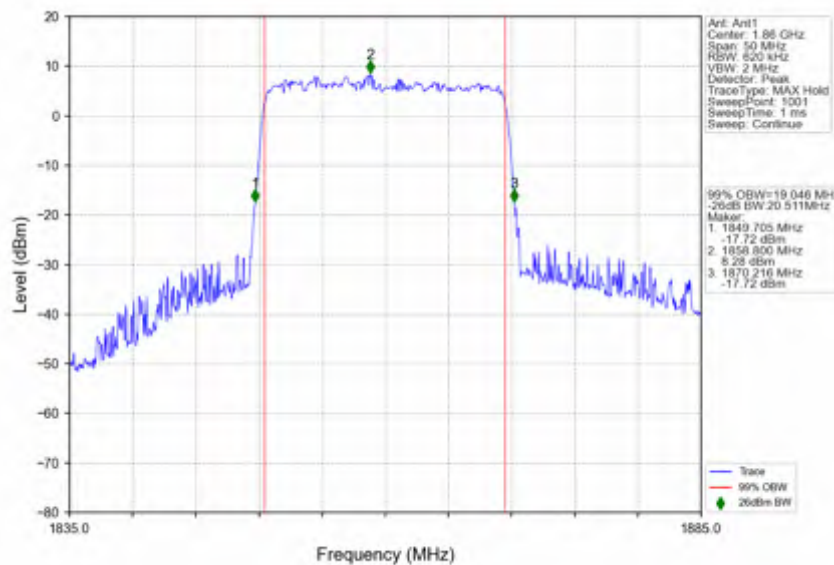
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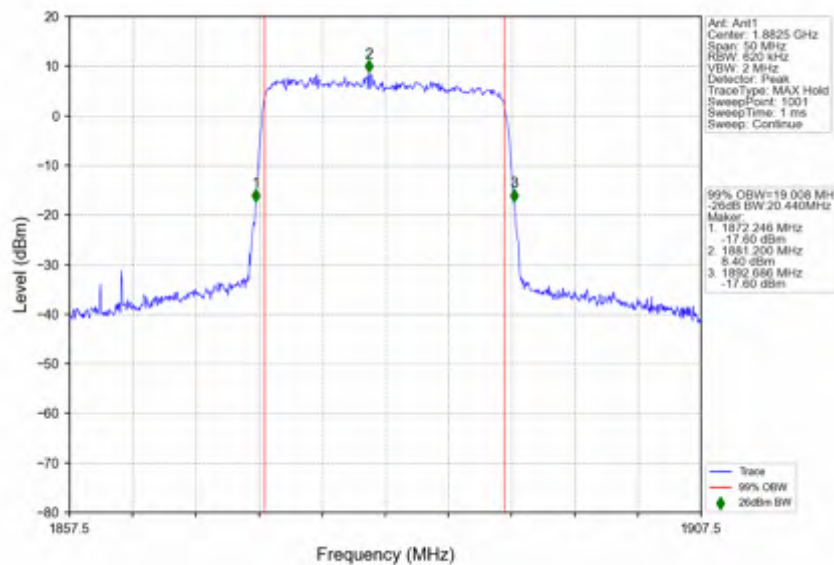
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n25_15kHz_SISO_NTNV_20MHz_CP-OFDM_256_QAM_1860MHz_Outer_Full



n25	15kHz	SISO	NTNV	20MHz	CP-OFDM	256 QAM	1882.5MHz	Outer	Full
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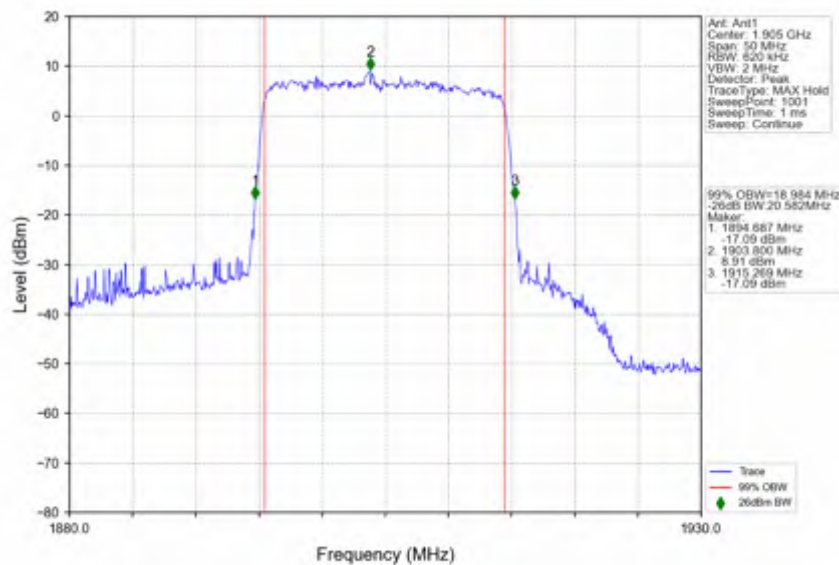


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n25_15kHz_SISO_NTNV_20MHz_CP-OFDM 256 QAM_1905MHz_Outer_Full



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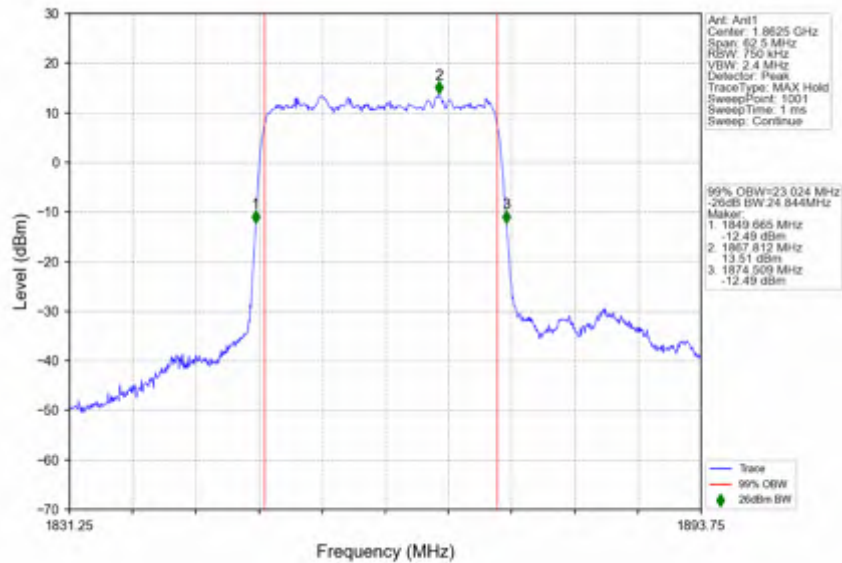
4.5 15k_SISO_25MHz_NTNV

4.5.1 Test Result

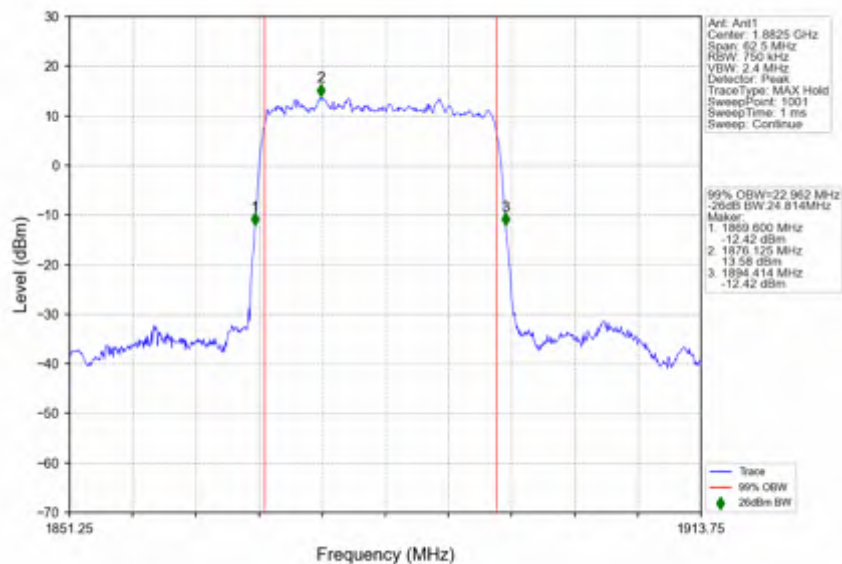
5G NR n25 SCS=15kHz SISO 25MHz NTN						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	1862.5	Outer_Full	23.02	24.84	/	Pass
	1882.5	Outer_Full	22.96	24.81	/	Pass
	1902.5	Outer_Full	22.99	24.84	/	Pass
DFT-s-OFDM QPSK	1862.5	Outer_Full	23.09	24.86	/	Pass
	1882.5	Outer_Full	23.02	24.85	/	Pass
	1902.5	Outer_Full	23.07	24.93	/	Pass
DFT-s-OFDM 16 QAM	1862.5	Outer_Full	23.14	24.86	/	Pass
	1882.5	Outer_Full	23.11	24.82	/	Pass
	1902.5	Outer_Full	23.08	24.89	/	Pass
DFT-s-OFDM 64 QAM	1862.5	Outer_Full	22.98	24.79	/	Pass
	1882.5	Outer_Full	22.97	24.75	/	Pass
	1902.5	Outer_Full	22.95	24.78	/	Pass
DFT-s-OFDM 256 QAM	1862.5	Outer_Full	23.01	24.93	/	Pass
	1882.5	Outer_Full	22.98	24.90	/	Pass
	1902.5	Outer_Full	22.96	24.91	/	Pass
CP-OFDM QPSK	1862.5	Outer_Full	24.11	25.68	/	Pass
	1882.5	Outer_Full	23.99	25.71	/	Pass
	1902.5	Outer_Full	24.02	25.68	/	Pass
CP-OFDM 16 QAM	1862.5	Outer_Full	23.95	25.74	/	Pass
	1882.5	Outer_Full	23.90	25.67	/	Pass
	1902.5	Outer_Full	23.92	25.65	/	Pass
CP-OFDM 64 QAM	1862.5	Outer_Full	23.95	25.70	/	Pass
	1882.5	Outer_Full	23.91	25.66	/	Pass
	1902.5	Outer_Full	23.91	25.67	/	Pass
CP-OFDM 256 QAM	1862.5	Outer_Full	23.92	25.61	/	Pass
	1882.5	Outer_Full	23.86	25.57	/	Pass
	1902.5	Outer_Full	23.89	25.64	/	Pass

4.5.2 Test Graph

n25_15kHz_SISO_NTNV_25MHz_DFT-s-OFDM PI/2 BPSK_1862.5MHz_Outer_Full



n25_15kHz_SISO_NTNV_25MHz_DFT-s-OFDM PI/2 BPSK_1882.5MHz_Outer_Full



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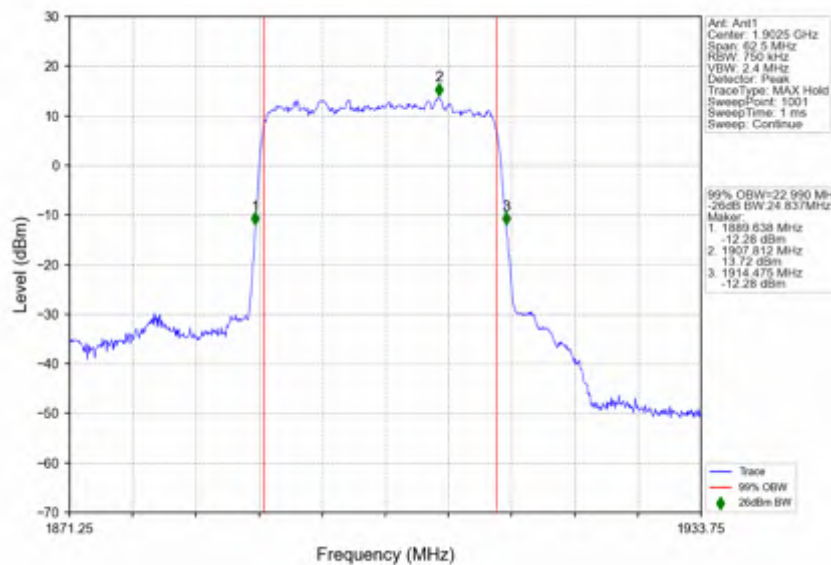
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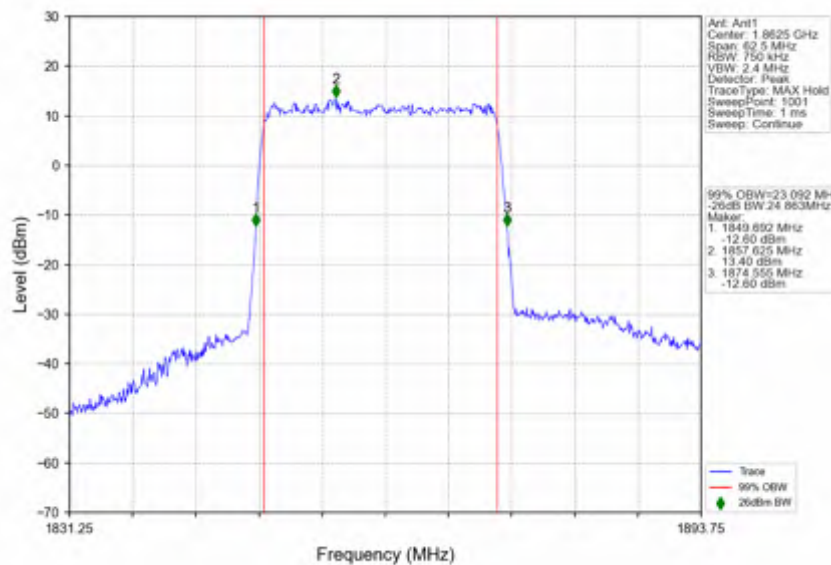
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n25_15kHz_SISO_NTNV_25MHz_DFT-s-OFDM PI/2 BPSK_1902.5MHz_Outer_Full



n25_15kHz_SISO_NTNV_25MHz_DFT-s-OFDM QPSK_1862.5MHz_Outer_Full



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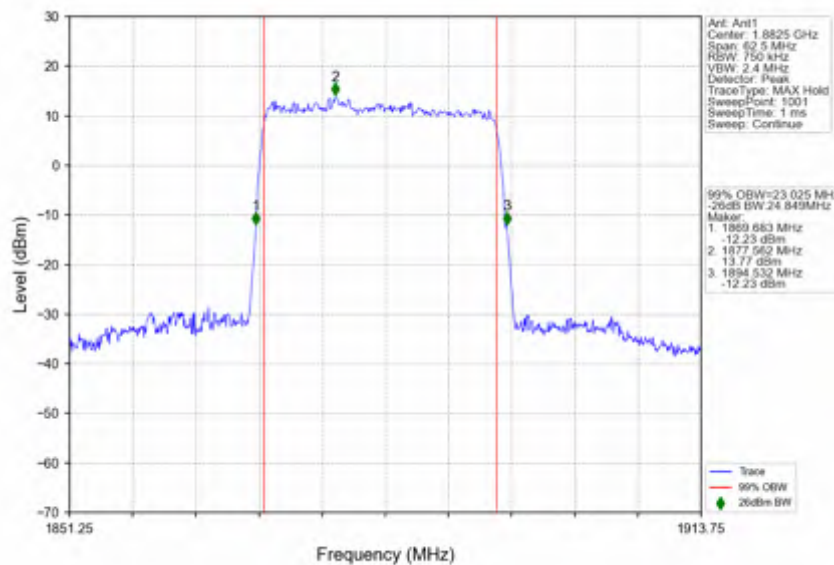
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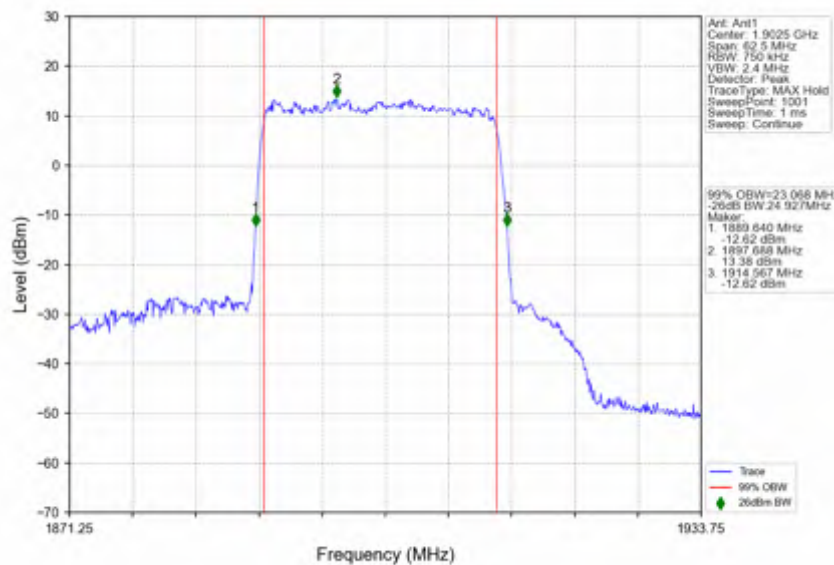
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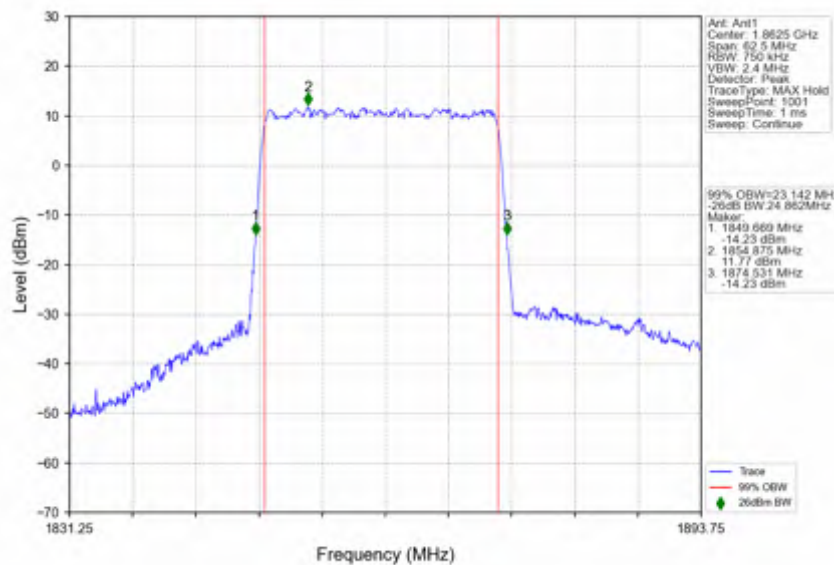
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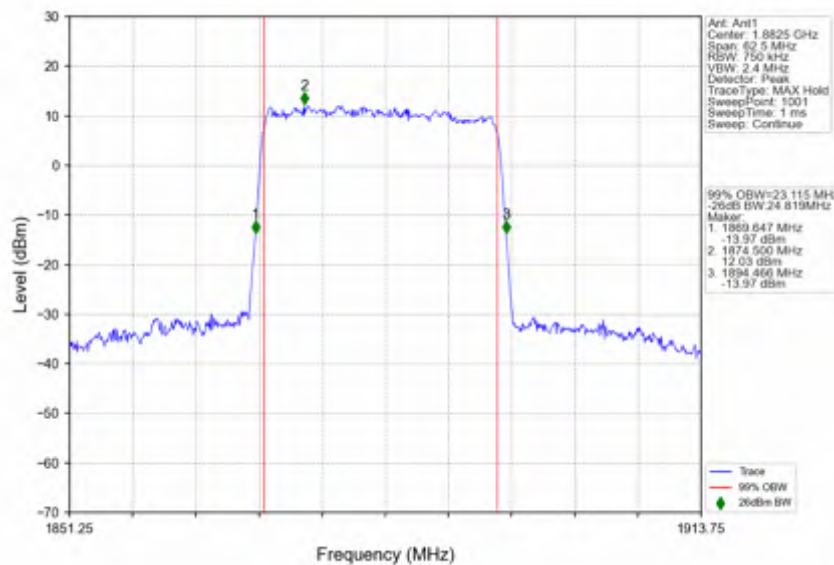
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n25_15kHz_SISO_NTNV_25MHz_DFT-s-OFDM_16_QAM_1882.5MHz_Outer_Full

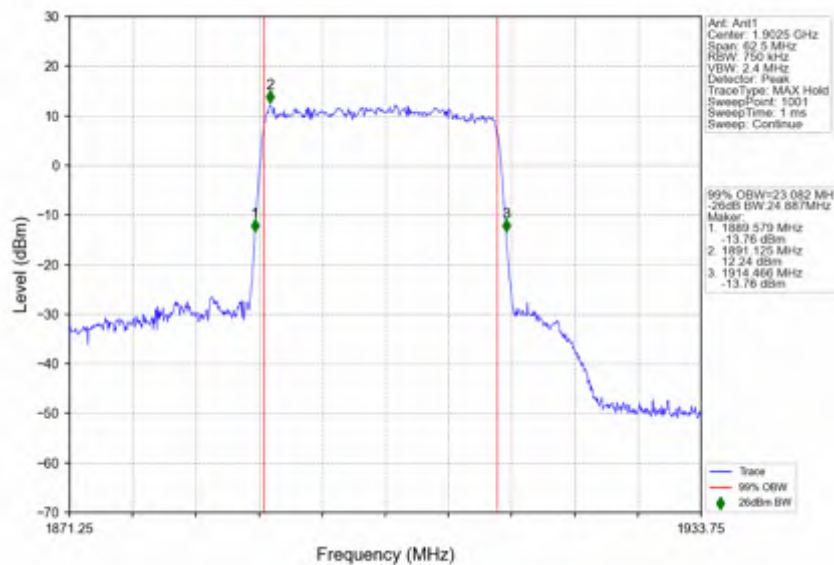


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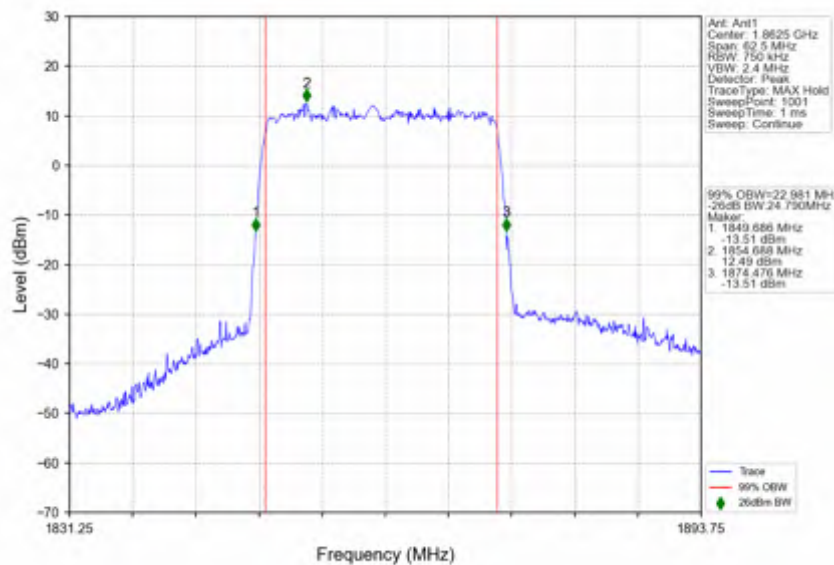
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n25_15kHz_SISO_NTV_25MHz_DFT-s-OFDM 16 QAM_1902.5MHz_Outer_Full



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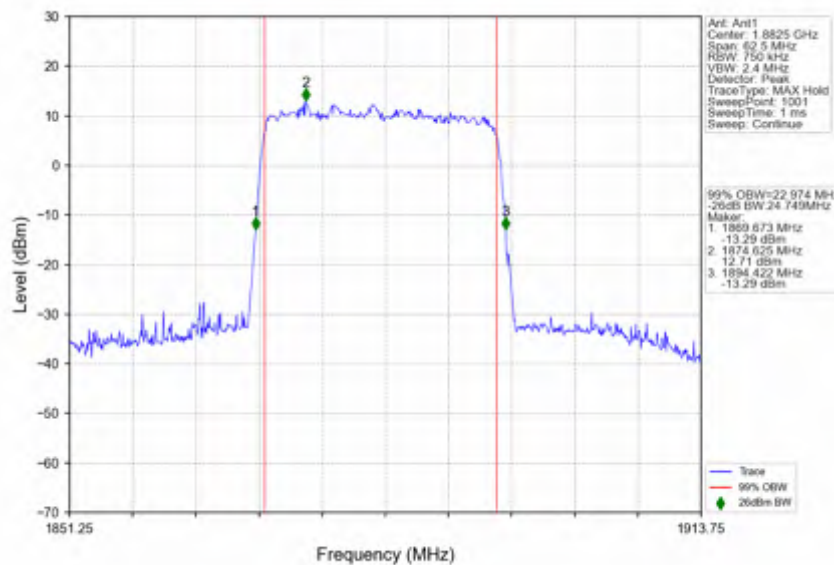
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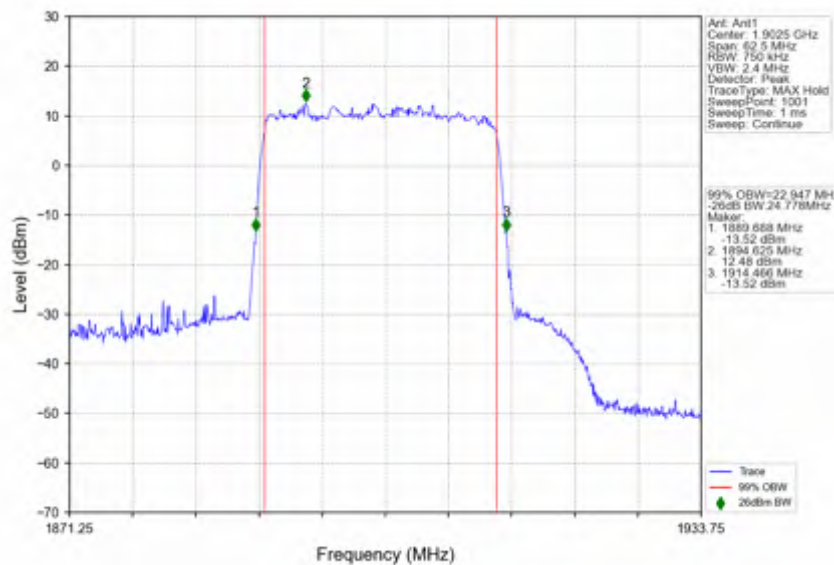
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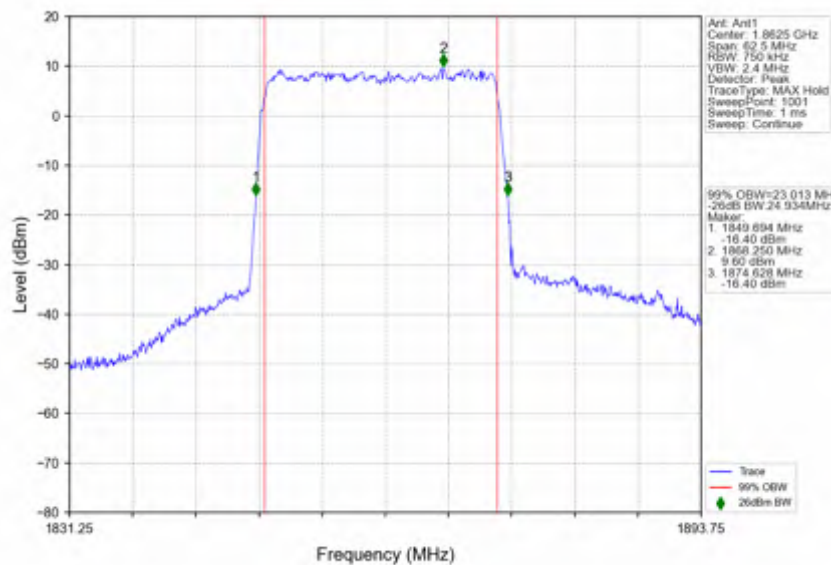
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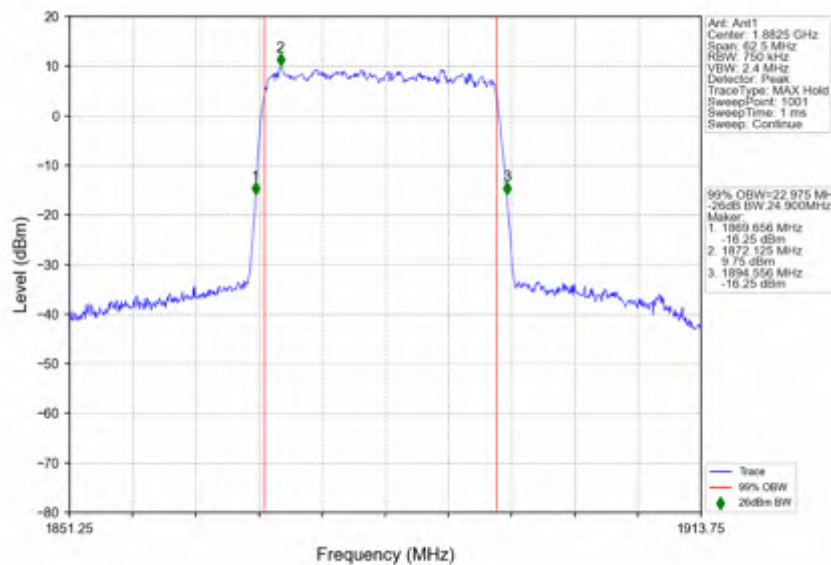
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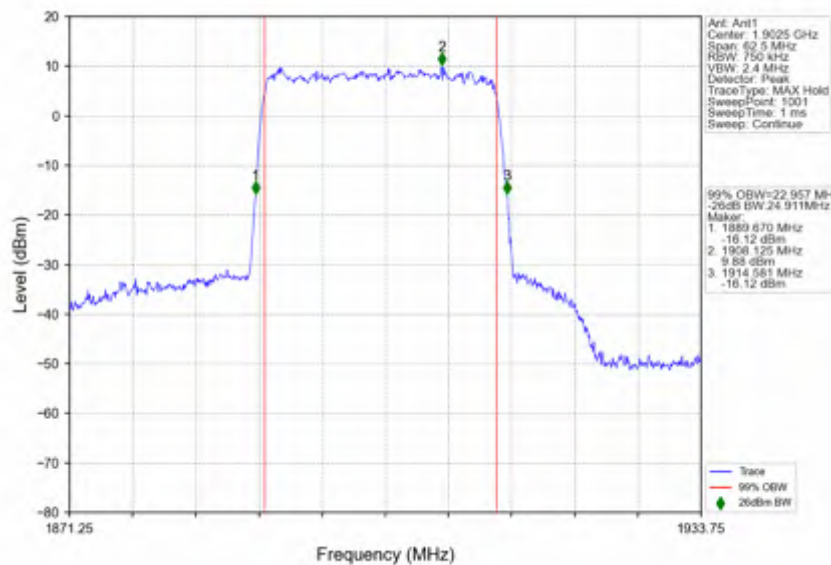


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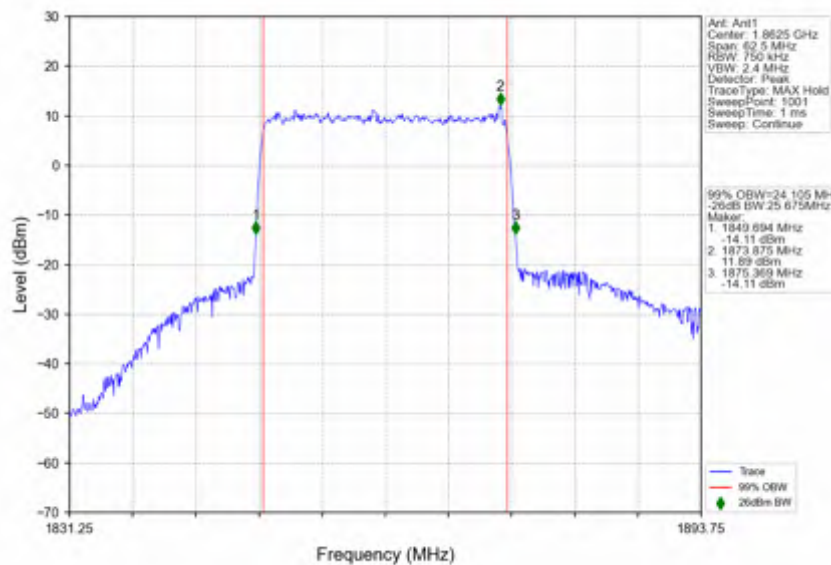
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n25_15kHz_SISO_NTNV_25MHz_DFT-s-OFDM_256_QAM_1902.5MHz_Outer_Full



n25_15kHz_SISO_NTNV_25MHz_CP-OFDM_QPSK_1862.5MHz_Outer_Full



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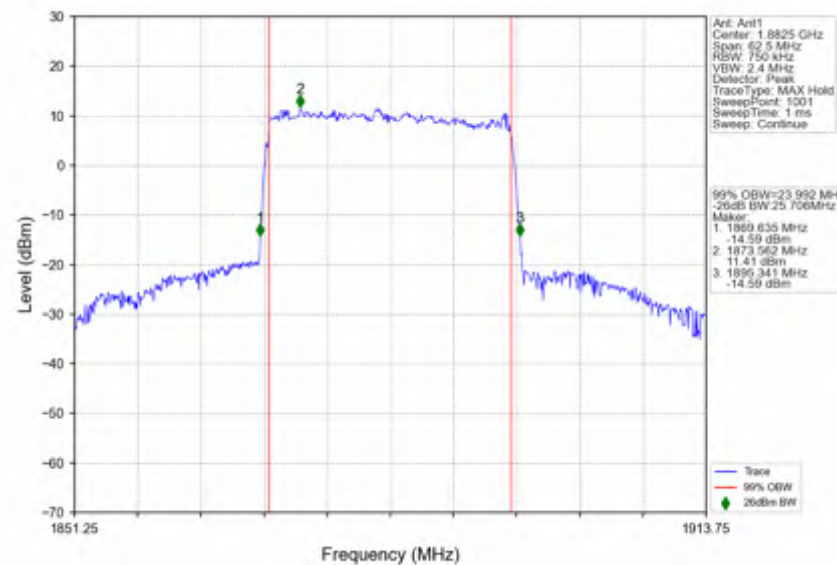
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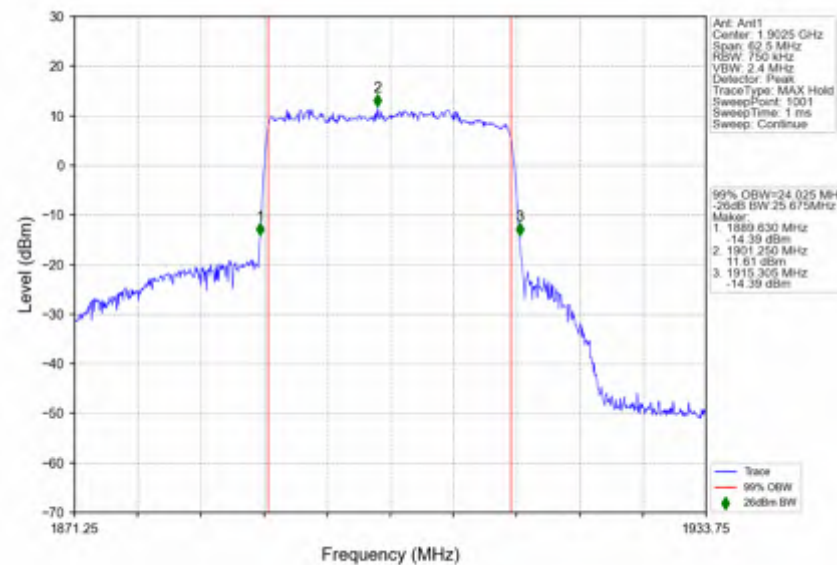
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n25_15kHz_SISO_NTNV_25MHz_CP-OFDM_QPSK_1882.5MHz_Outer_Full



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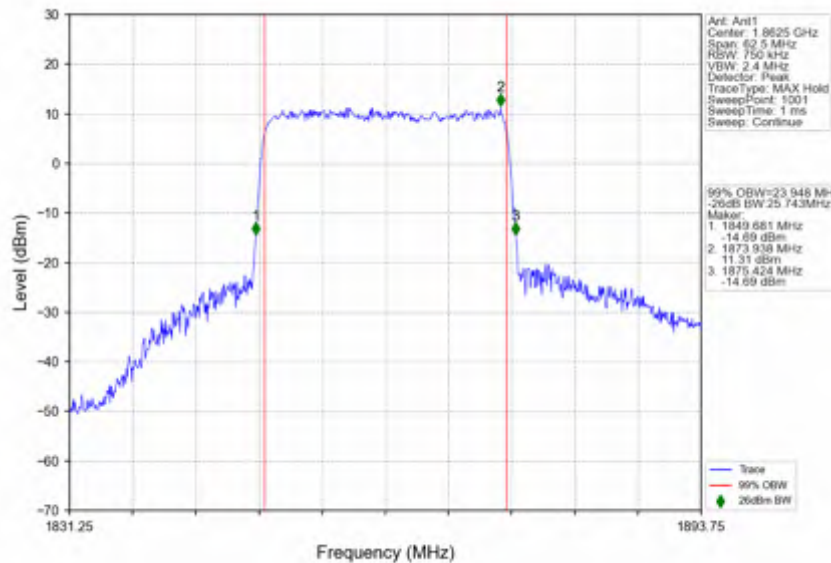
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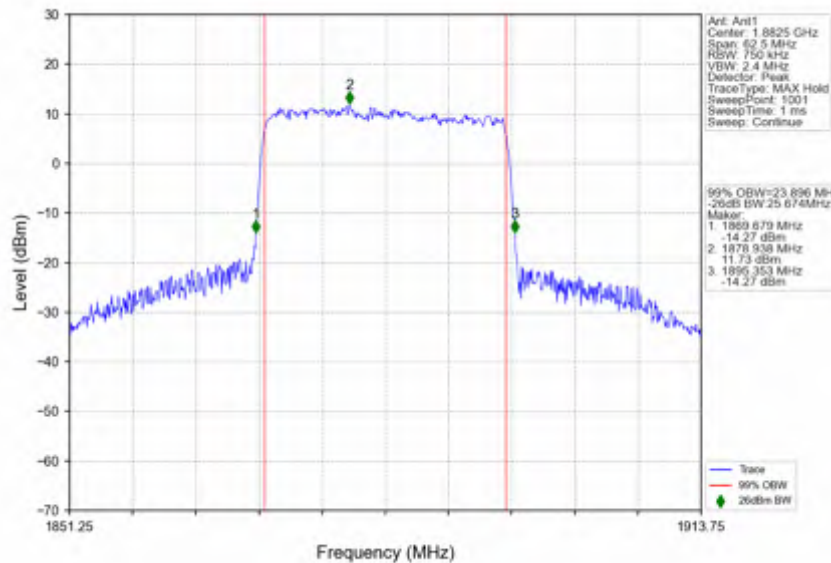
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n25_15kHz_SISO_NTNV_25MHz_CP-OFDM 16 QAM_1862.5MHz_Outer_Full



n25_15kHz_SISO_NTNV_25MHz_CP-OFDM 16 QAM_1882.5MHz_Outer_Full



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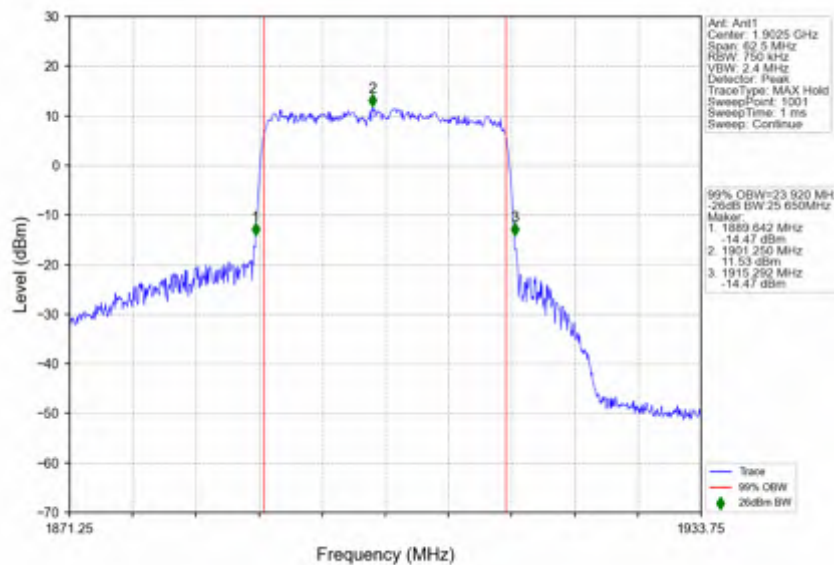
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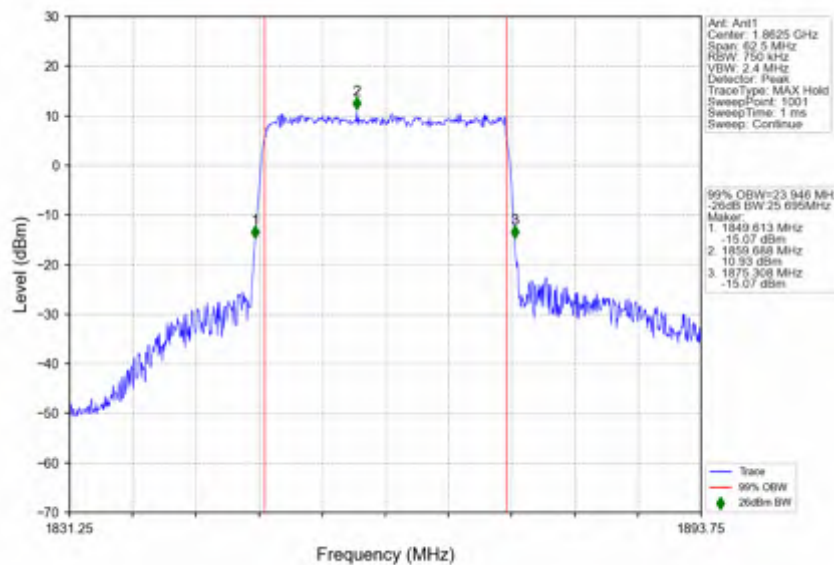
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n25_15kHz_SISO_NTNV_25MHz_CP-OFDM 64 QAM_1862.5MHz_Outer_Full



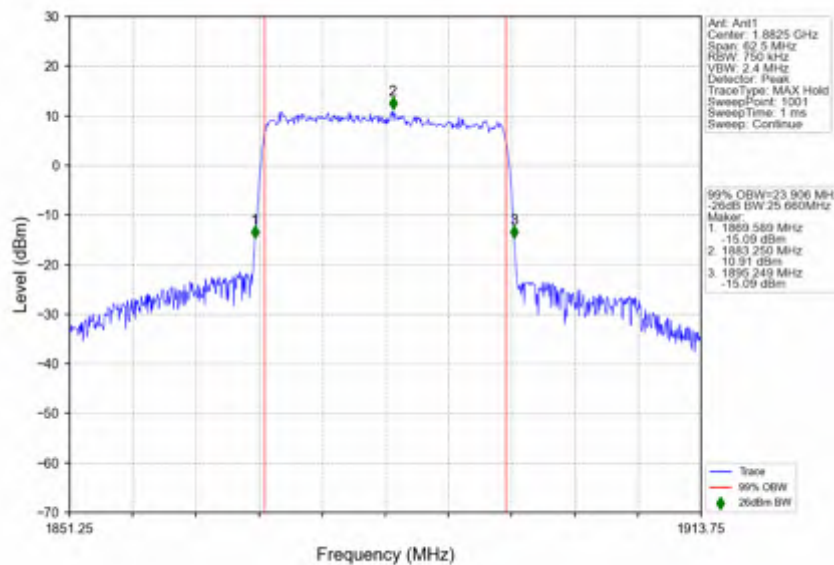
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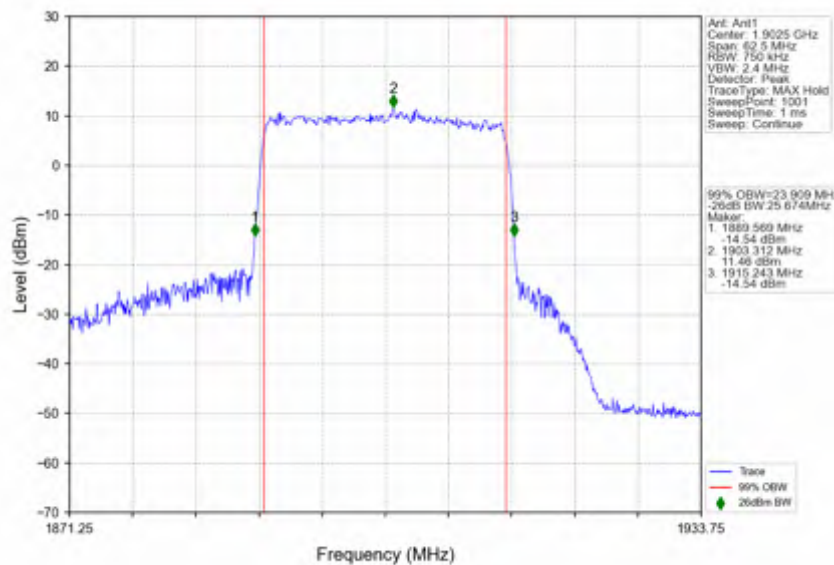
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n25_15kHz_SISO_NTNV_25MHz_CP-OFDM 64 QAM_1882.5MHz_Outer_Full



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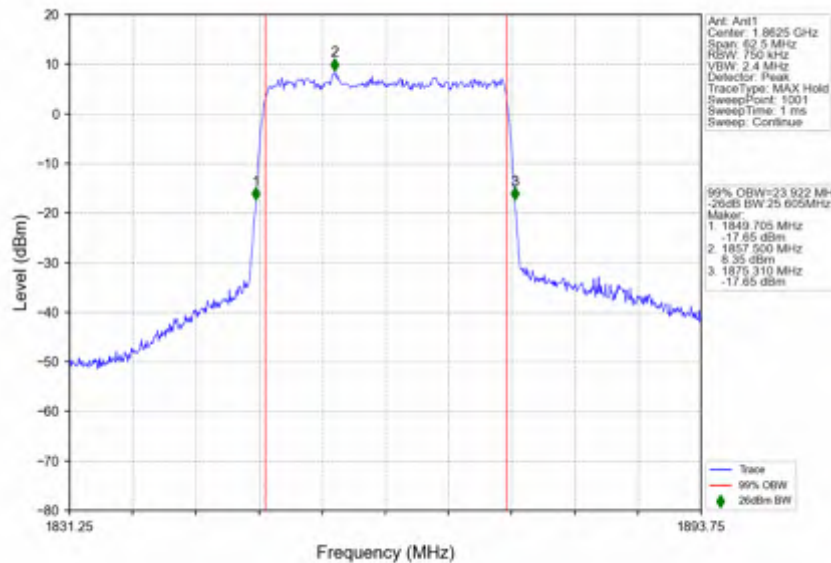
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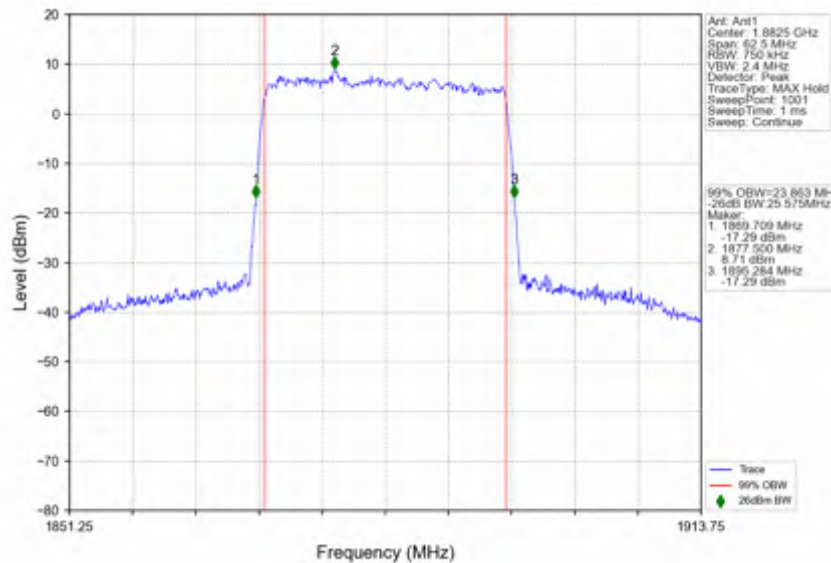
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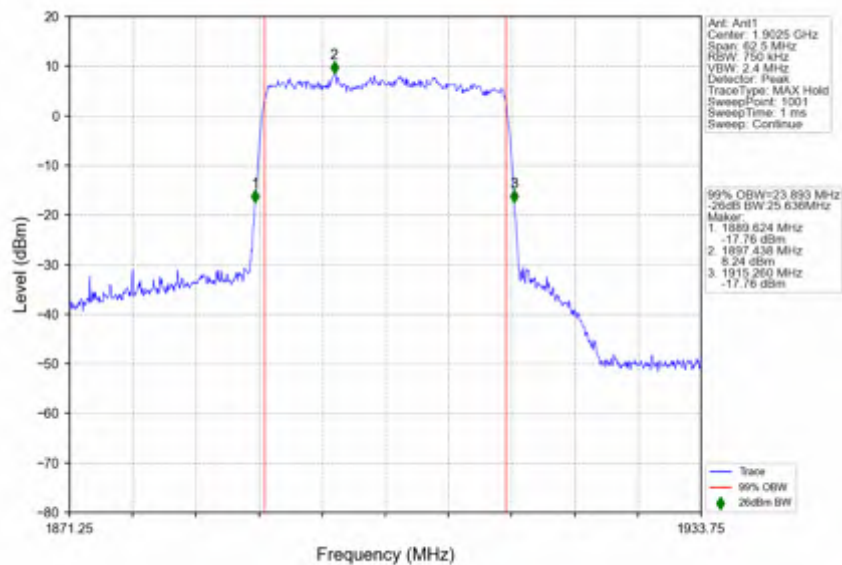
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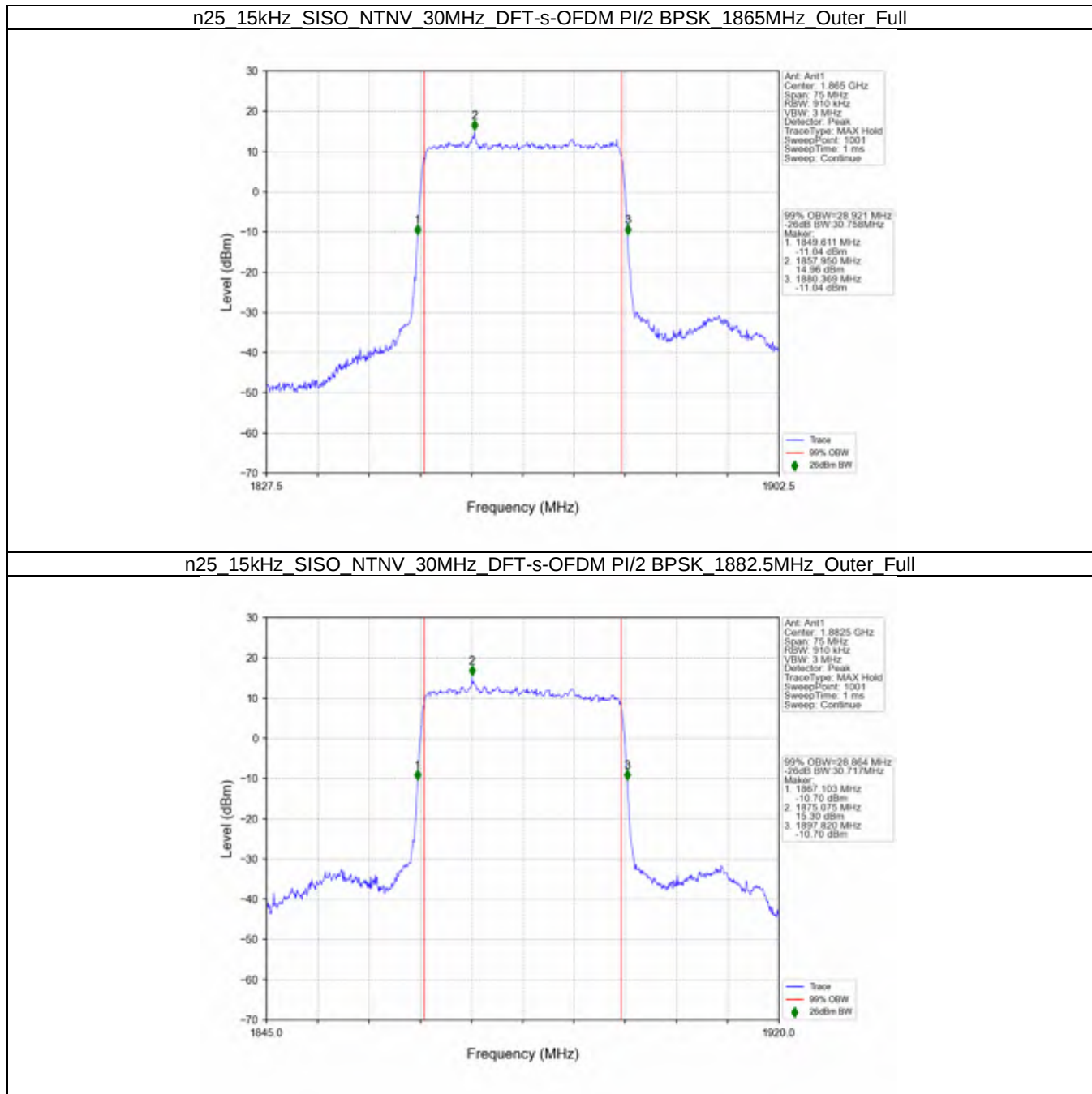
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4.6 15k_SISO_30MHz_NTNV

4.6.1 Test Result

5G NR n25 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	1865	Outer_Full	28.92	30.76	/	Pass
	1882.5	Outer_Full	28.86	30.72	/	Pass
	1900	Outer_Full	28.91	30.79	/	Pass
DFT-s-OFDM QPSK	1865	Outer_Full	28.82	30.81	/	Pass
	1882.5	Outer_Full	28.73	30.77	/	Pass
	1900	Outer_Full	28.74	30.78	/	Pass
DFT-s-OFDM 16 QAM	1865	Outer_Full	28.68	30.76	/	Pass
	1882.5	Outer_Full	28.63	30.76	/	Pass
	1900	Outer_Full	28.66	30.80	/	Pass
DFT-s-OFDM 64 QAM	1865	Outer_Full	28.74	30.77	/	Pass
	1882.5	Outer_Full	28.72	30.71	/	Pass
	1900	Outer_Full	28.74	30.75	/	Pass
DFT-s-OFDM 256 QAM	1865	Outer_Full	28.92	30.85	/	Pass
	1882.5	Outer_Full	28.80	30.85	/	Pass
	1900	Outer_Full	28.80	30.85	/	Pass
CP-OFDM QPSK	1865	Outer_Full	28.79	30.91	/	Pass
	1882.5	Outer_Full	28.75	30.76	/	Pass
	1900	Outer_Full	28.74	30.75	/	Pass
CP-OFDM 16 QAM	1865	Outer_Full	28.84	30.87	/	Pass
	1882.5	Outer_Full	28.81	30.75	/	Pass
	1900	Outer_Full	28.87	30.84	/	Pass
CP-OFDM 64 QAM	1865	Outer_Full	28.79	30.82	/	Pass
	1882.5	Outer_Full	28.83	30.76	/	Pass
	1900	Outer_Full	28.81	30.76	/	Pass
CP-OFDM 256 QAM	1865	Outer_Full	28.82	30.84	/	Pass
	1882.5	Outer_Full	28.73	30.81	/	Pass
	1900	Outer_Full	28.76	30.79	/	Pass

4.6.2 Test Graph

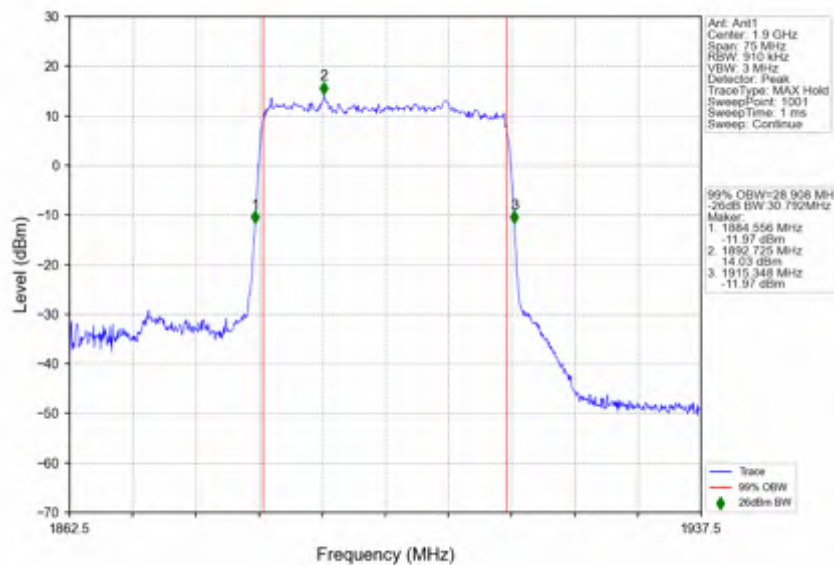


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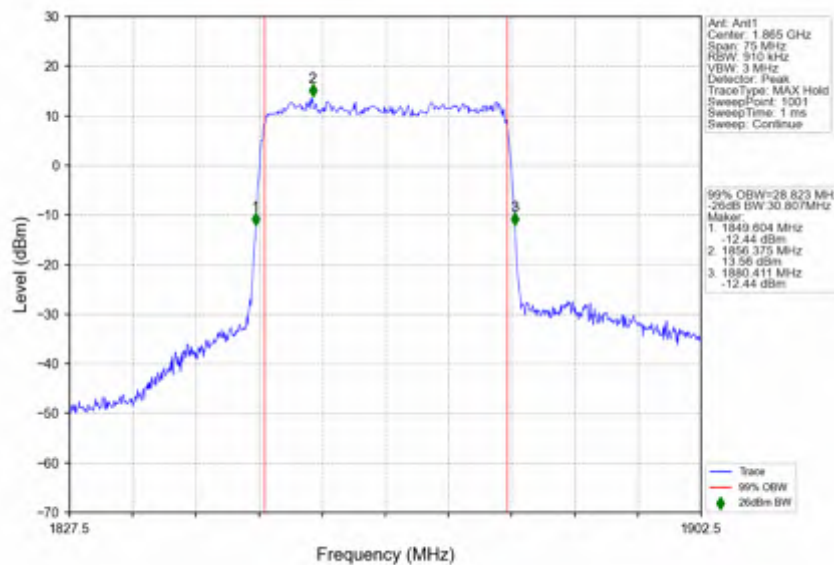
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n25_15kHz_SISO_NTNV_30MHz_DFT-s-OFDM_QPSK_1865MHz_Outer_Full

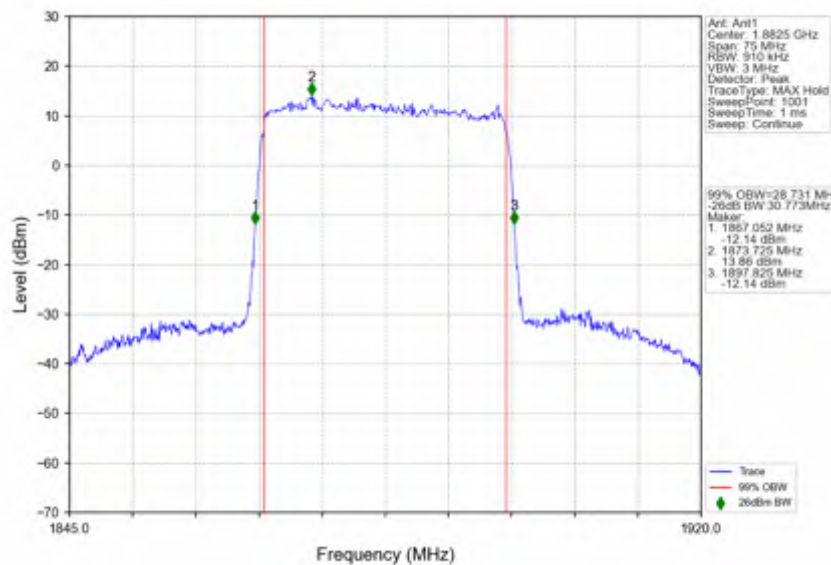


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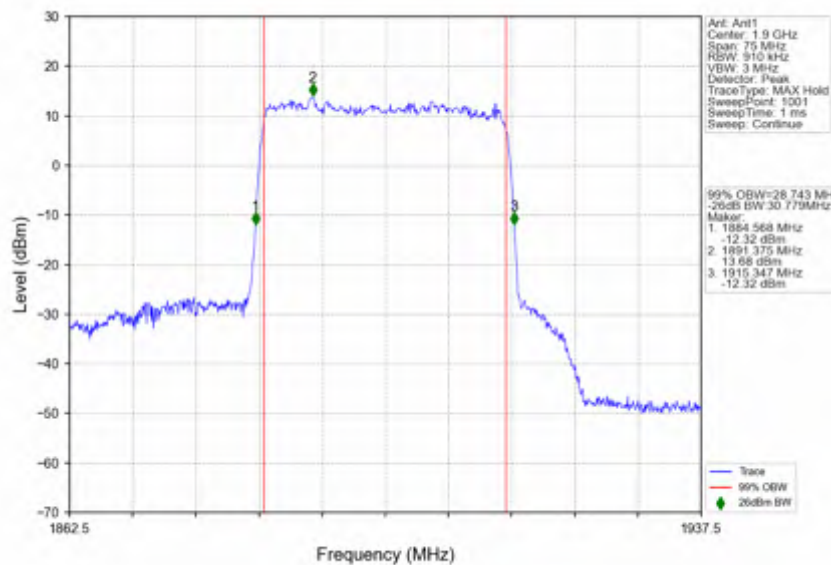
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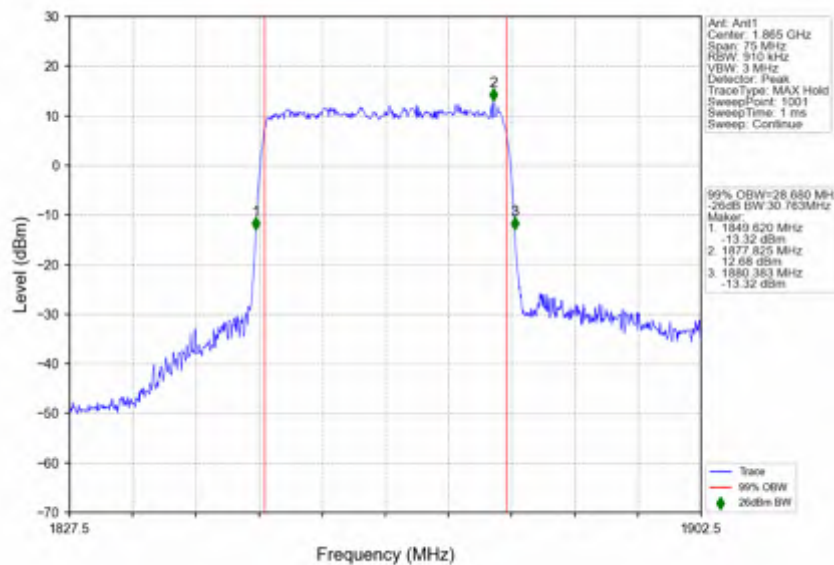
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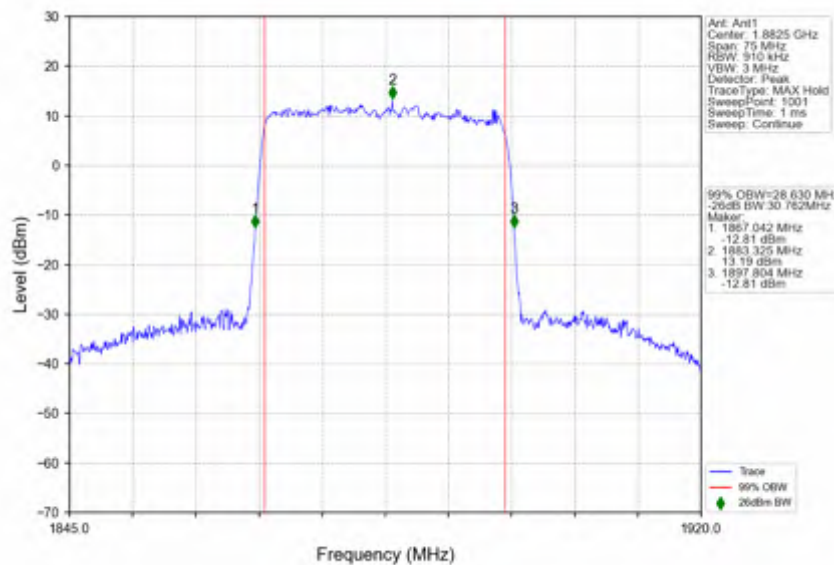
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n25	15kHz	SISO	NTNV	30MHz	DFT-s-OFDM	16 QAM	1865MHz	Outer	Full
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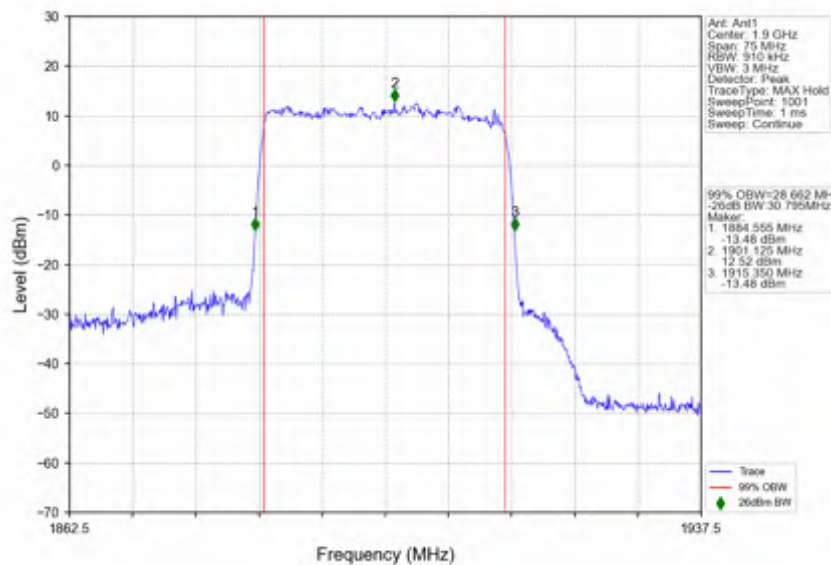


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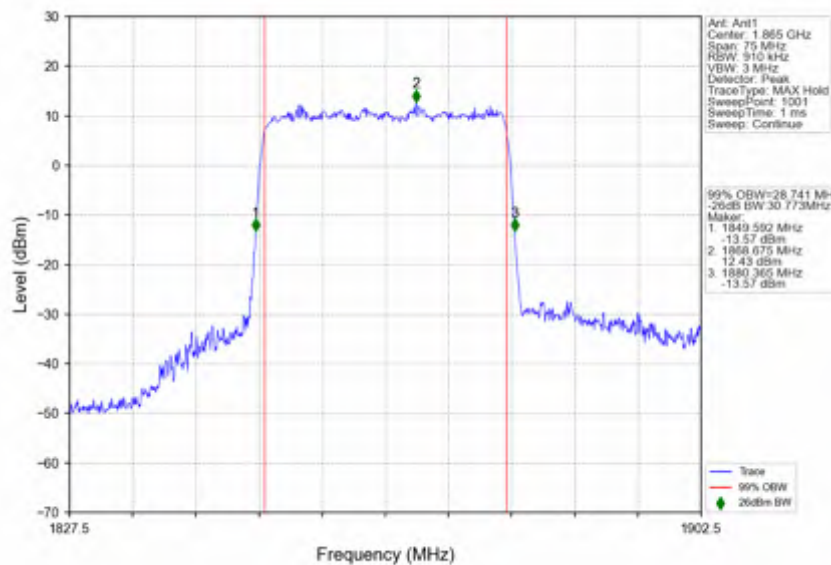
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n25_15kHz_SISO_NTNV_30MHz_DFT-s-OFDM 16 QAM_1900MHz_Outer_Full



n25_15kHz_SISO_NTNV_30MHz_DFT-s-OFDM 64 QAM_1865MHz_Outer_Full



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0512-515735088

0512-515737010

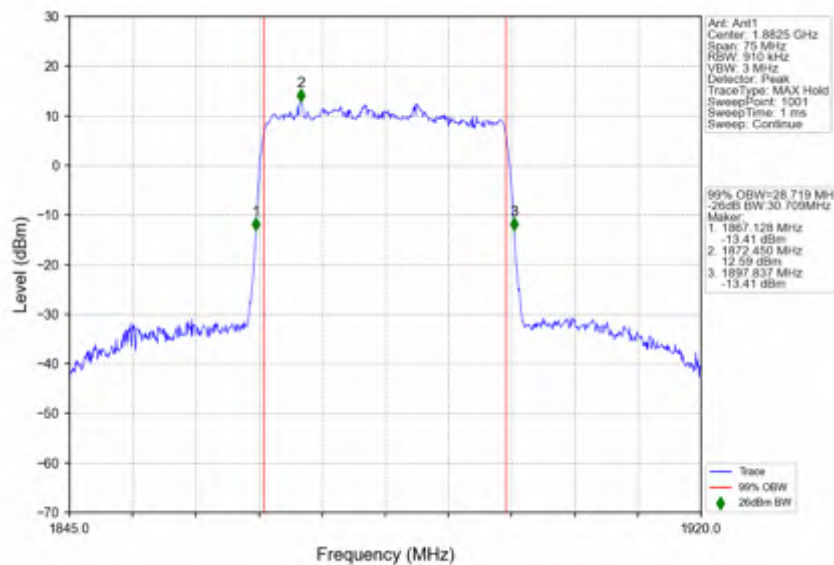
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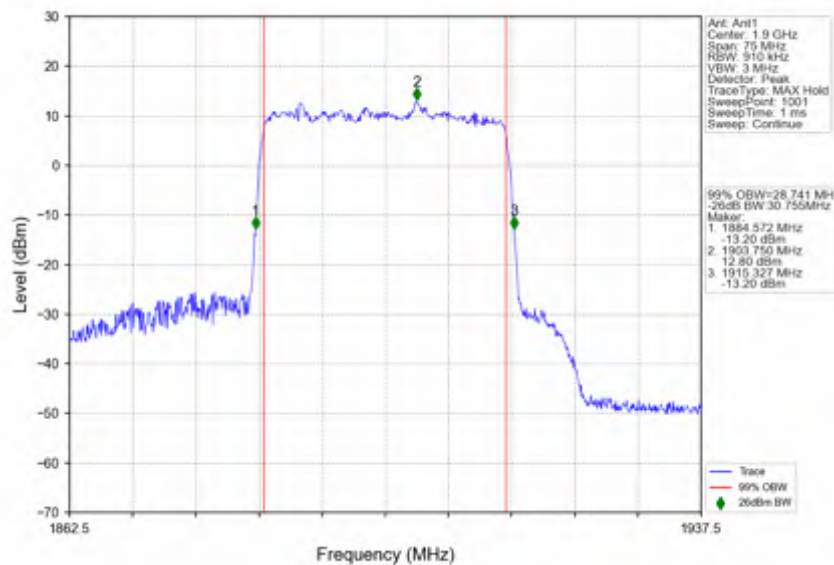
0512-515737010

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n25_15kHz_SISO_NTNV_30MHz_DFT-s-OFDM 64 QAM_1882.5MHz_Outer_Full



n25_15kHz_SISO_NTNV_30MHz_DFT-s-OFDM 64 QAM_1900MHz_Outer_Full



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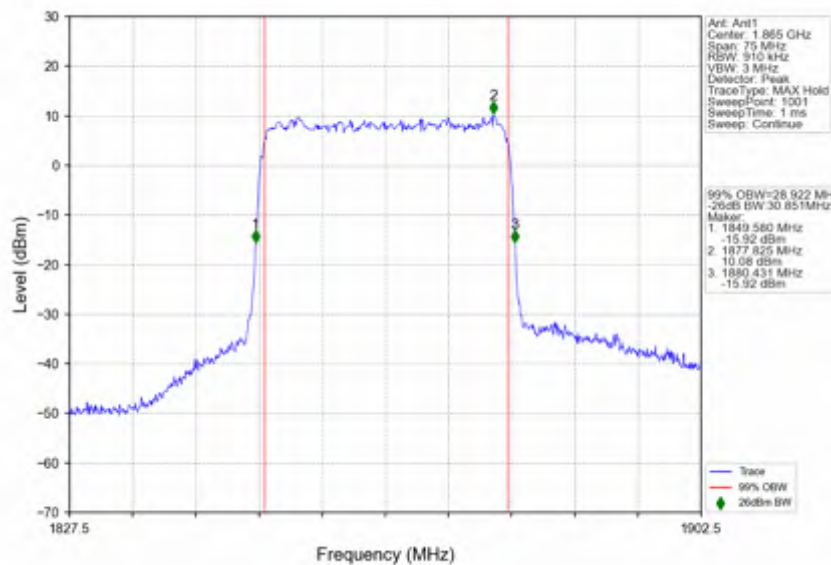
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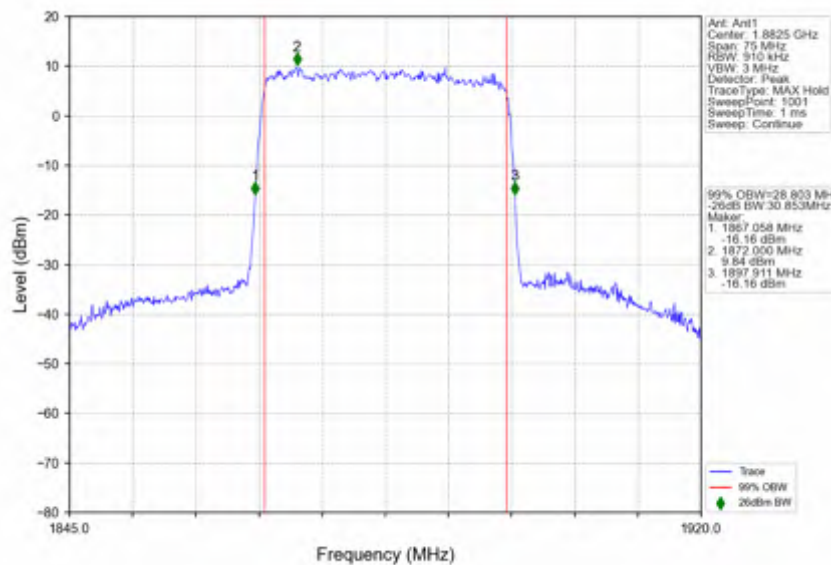
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0512-57350883 0512-57370911 sgs.china@sgs.com

n25_15kHz_SISO_NTNV_30MHz_DFT-s-OFDM_256_QAM_1865MHz_Outer_Full



n25_15kHz_SISO_NTNV_30MHz_DFT-s-OFDM_256_QAM_1882.5MHz_Outer_Full



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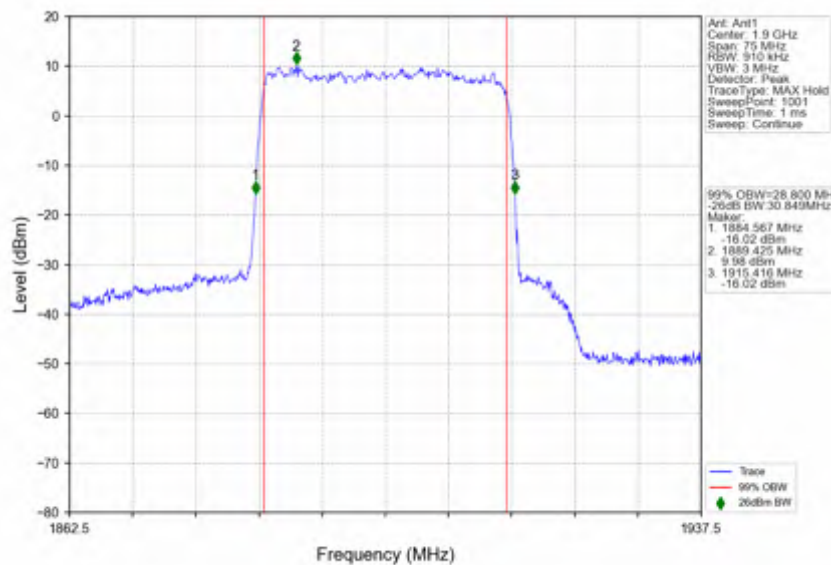
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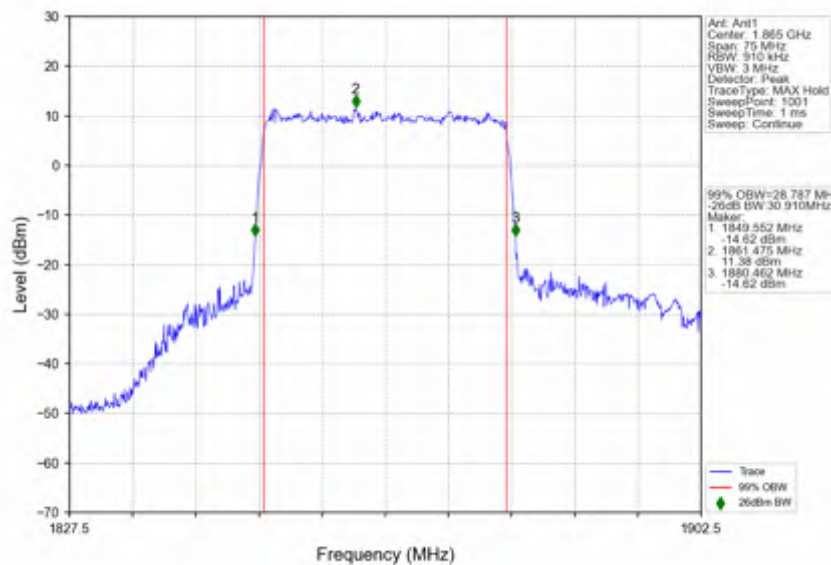
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0512-5127350003 0512-5127370011 sgs.china@sgs.com

n25_15kHz_SISO_NTNV_30MHz_DFT-s-OFDM_256_QAM_1900MHz_Outer_Full



n25_15kHz_SISO_NTV_30MHz_CP-OFDM_QPSK_1865MHz_Outer_Full

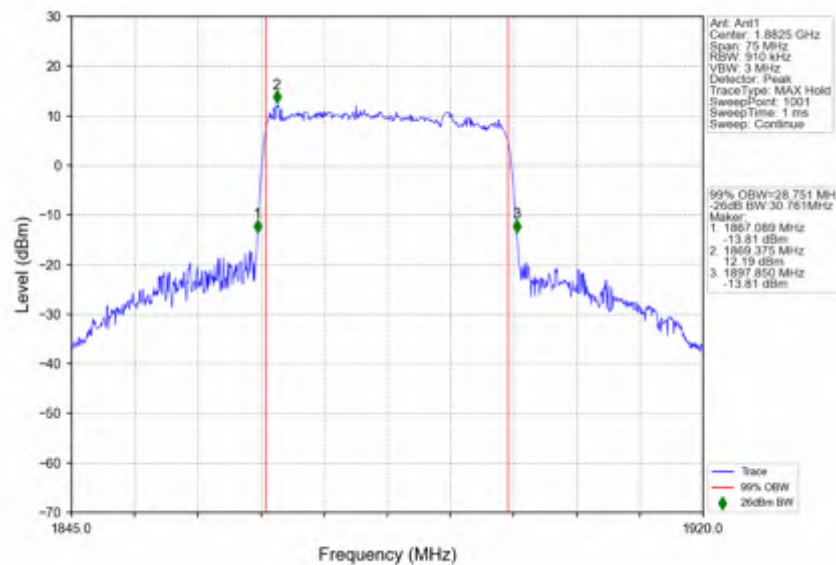


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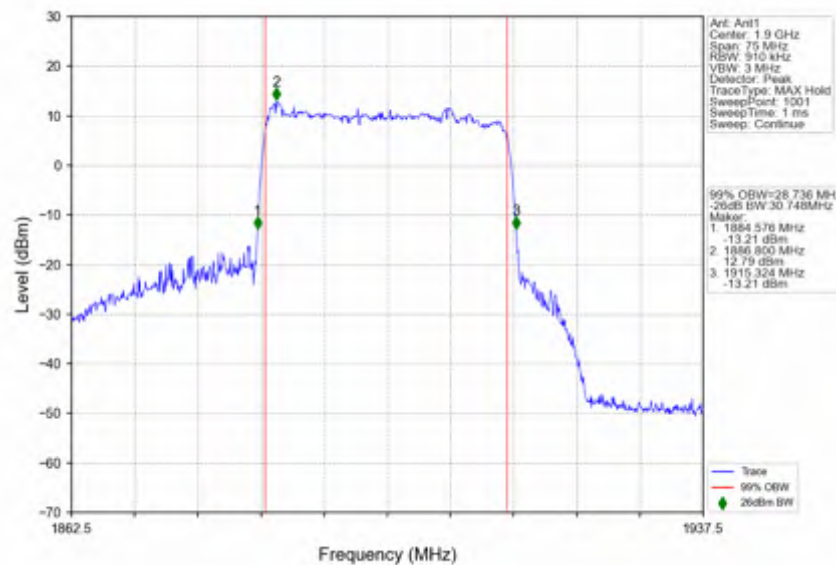
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n25_15kHz_SISO_NTNV_30MHz_CP-OFDM QPSK_1882.5MHz_Outer_Full



n25_15kHz_SISO_NTNV_30MHz_CP-OFDM QPSK_1900MHz_Outer_Full



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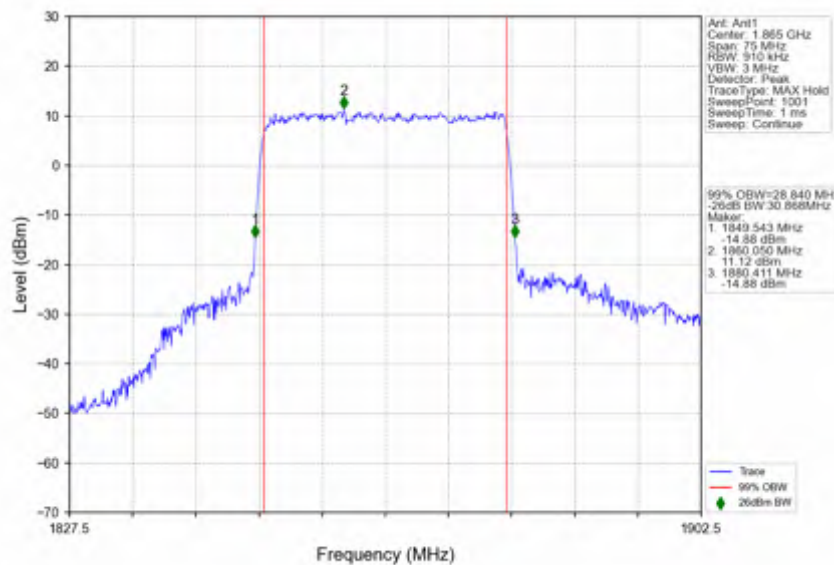
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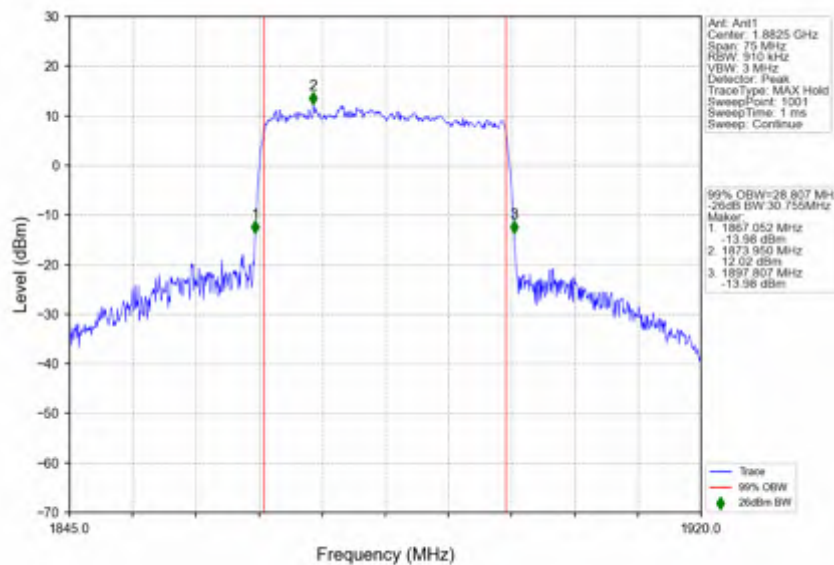
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n25_15kHz_SISO_NTNV_30MHz_CP-OFDM 16 QAM_1865MHz_Outer_Full



n25_15kHz_SISO_NTNV_30MHz_CP-OFDM 16 QAM_1882.5MHz_Outer_Full



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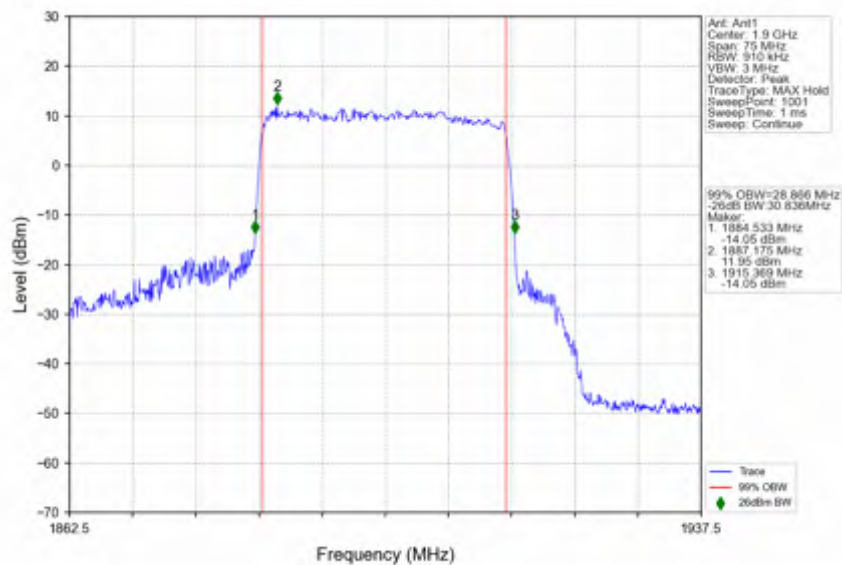
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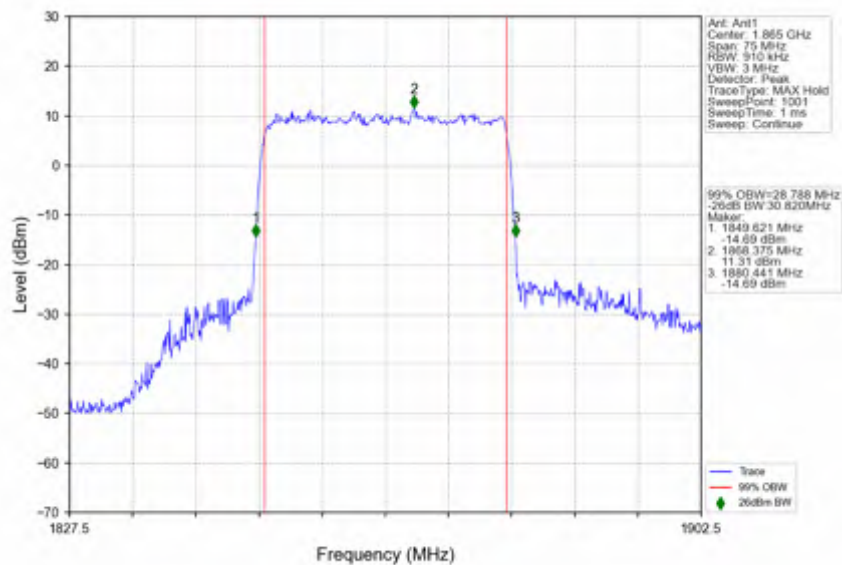
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n25_15kHz_SISO_NTNV_30MHz_CP-OFDM 16 QAM_1900MHz_Outer_Full



n25_15kHz_SISO_NTNV_30MHz_CP-OFDM 64 QAM_1865MHz_Outer_Full



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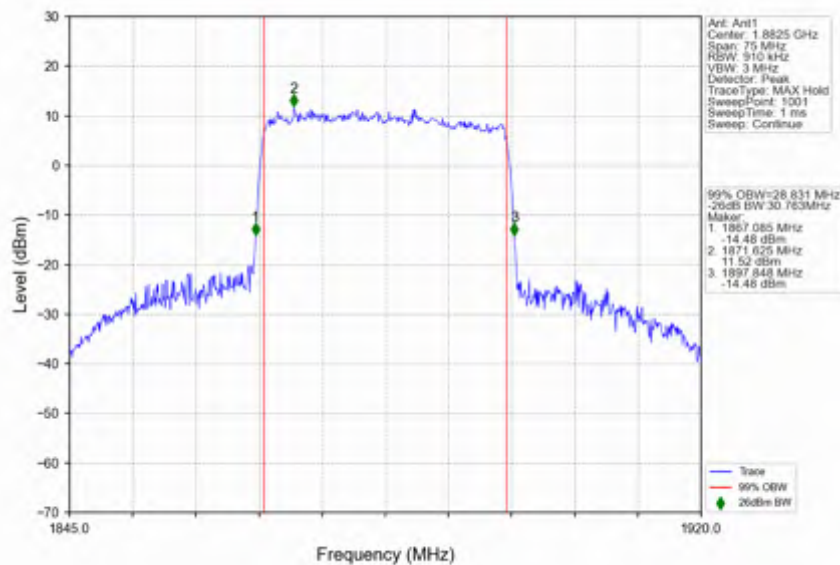
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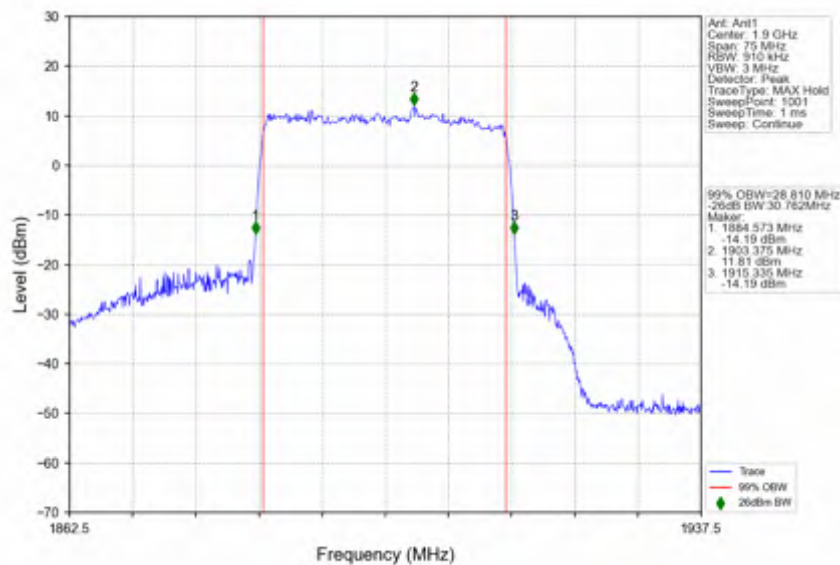
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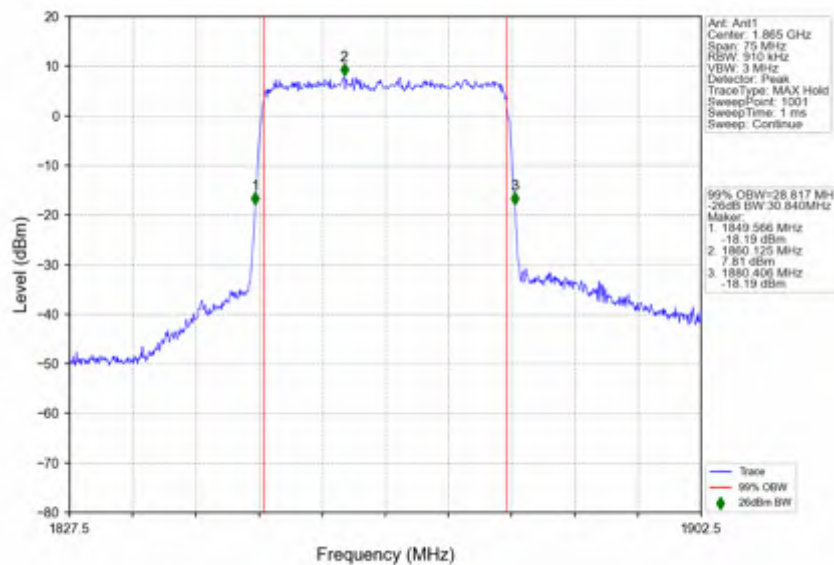
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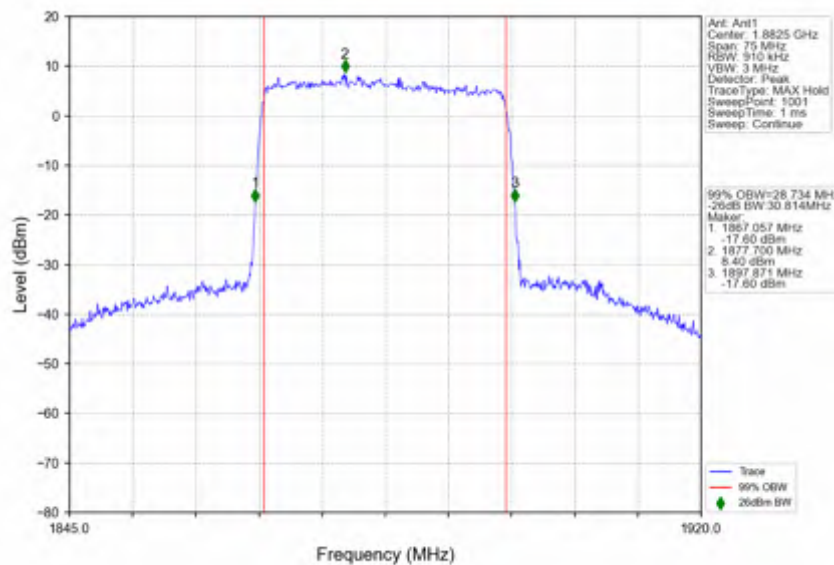
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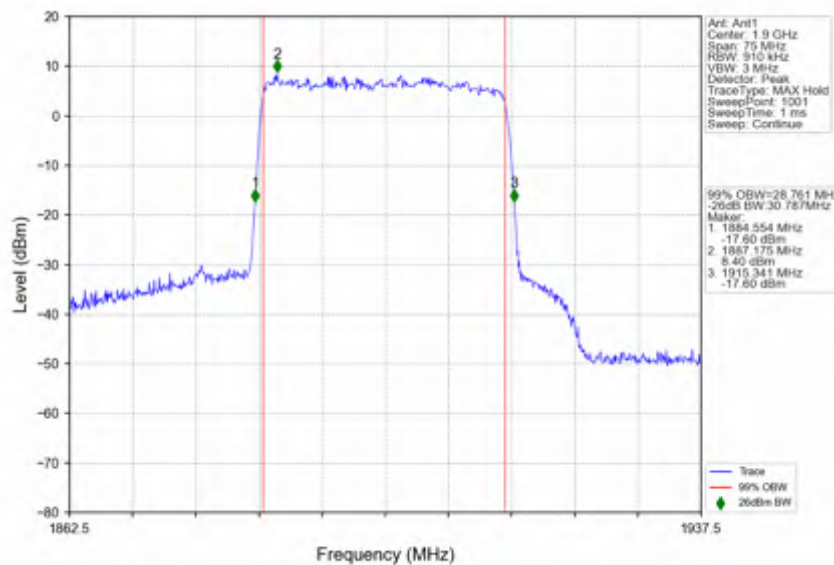
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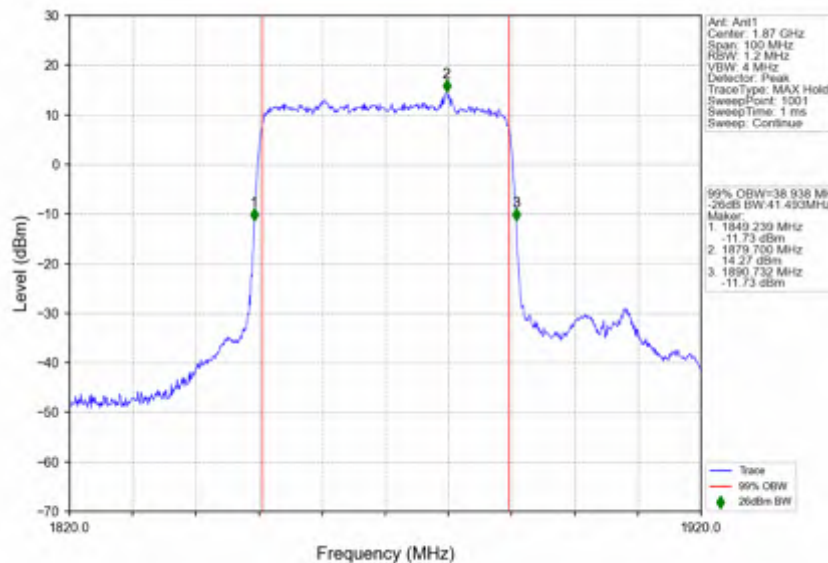
4.7 15k_SISO_40MHz_NTNV

4.7.1 Test Result

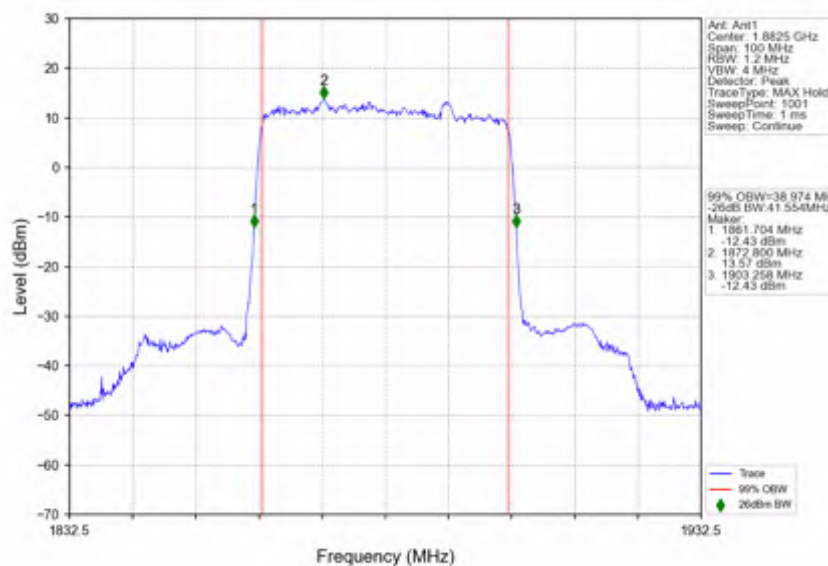
5G NR n25 SCS=15kHz SISO 40MHz NTN						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	1870	Outer_Full	38.94	41.49	/	Pass
	1882.5	Outer_Full	38.97	41.55	/	Pass
	1895	Outer_Full	38.94	41.55	/	Pass
DFT-s-OFDM QPSK	1870	Outer_Full	38.66	41.46	/	Pass
	1882.5	Outer_Full	38.76	41.50	/	Pass
	1895	Outer_Full	38.69	41.54	/	Pass
DFT-s-OFDM 16 QAM	1870	Outer_Full	38.81	41.47	/	Pass
	1882.5	Outer_Full	38.85	41.47	/	Pass
	1895	Outer_Full	38.84	41.40	/	Pass
DFT-s-OFDM 64 QAM	1870	Outer_Full	38.85	41.63	/	Pass
	1882.5	Outer_Full	38.94	41.63	/	Pass
	1895	Outer_Full	38.89	41.67	/	Pass
DFT-s-OFDM 256 QAM	1870	Outer_Full	38.80	41.51	/	Pass
	1882.5	Outer_Full	38.80	41.53	/	Pass
	1895	Outer_Full	38.76	41.49	/	Pass
CP-OFDM QPSK	1870	Outer_Full	38.73	41.46	/	Pass
	1882.5	Outer_Full	38.86	41.48	/	Pass
	1895	Outer_Full	38.85	41.49	/	Pass
CP-OFDM 16 QAM	1870	Outer_Full	38.79	41.59	/	Pass
	1882.5	Outer_Full	38.81	41.49	/	Pass
	1895	Outer_Full	38.71	41.49	/	Pass
CP-OFDM 64 QAM	1870	Outer_Full	38.83	41.57	/	Pass
	1882.5	Outer_Full	38.96	41.53	/	Pass
	1895	Outer_Full	38.85	41.50	/	Pass
CP-OFDM 256 QAM	1870	Outer_Full	38.77	41.46	/	Pass
	1882.5	Outer_Full	38.76	41.42	/	Pass
	1895	Outer_Full	38.77	41.40	/	Pass

4.7.2 Test Graph

n25_15kHz_SISO_NTNV_40MHz_DFT-s-OFDM_PI/2_BPSK_1870MHz_Outer_Full



n25_15kHz_SISO_NTNV_40MHz_DFT-s-OFDM_PI/2_BPSK_1882.5MHz_Outer_Full



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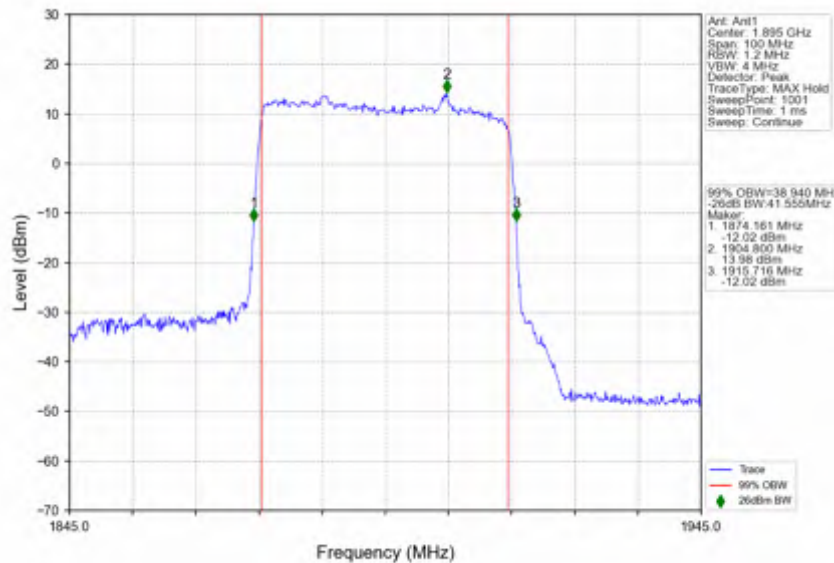
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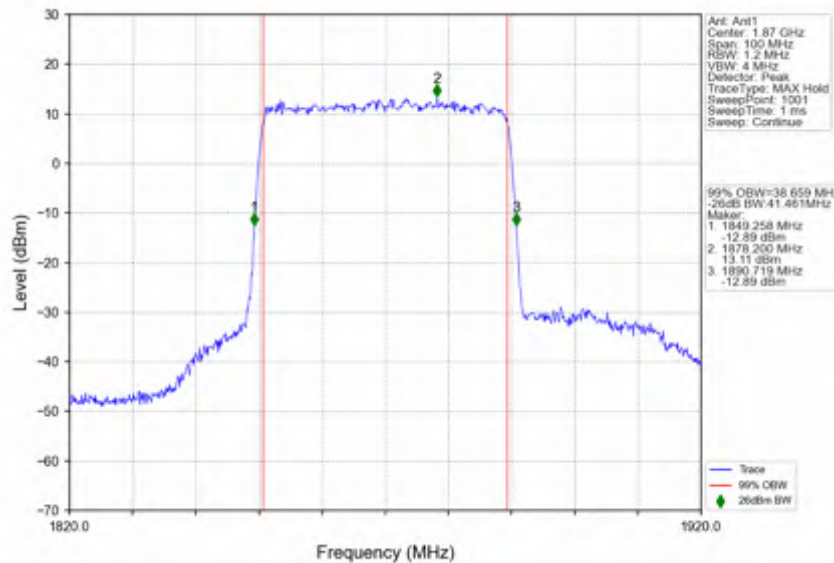
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n25_15kHz_SISO_NTNV_40MHz_DFT-s-OFDM PI/2 BPSK_1895MHz_Outer_Full



n25_15kHz_SISO_NTNV_40MHz_DFT-s-OFDM QPSK_1870MHz_Outer_Full



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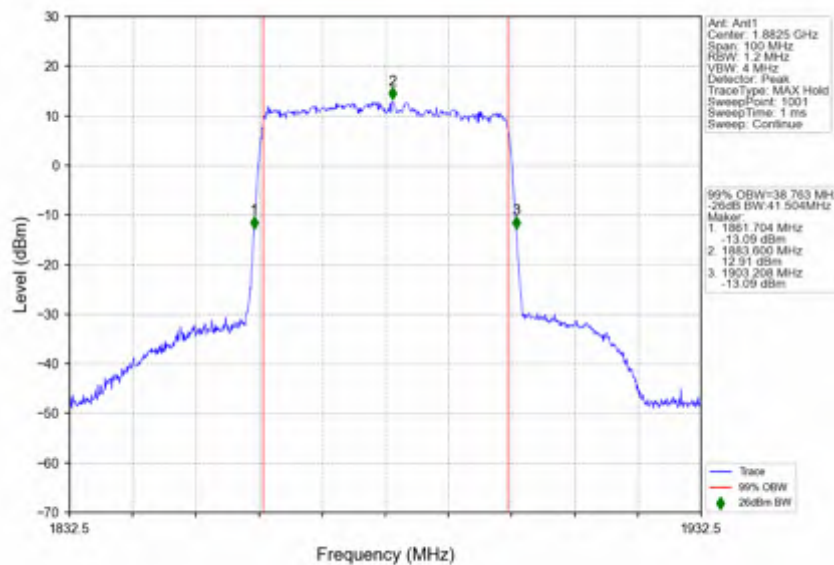
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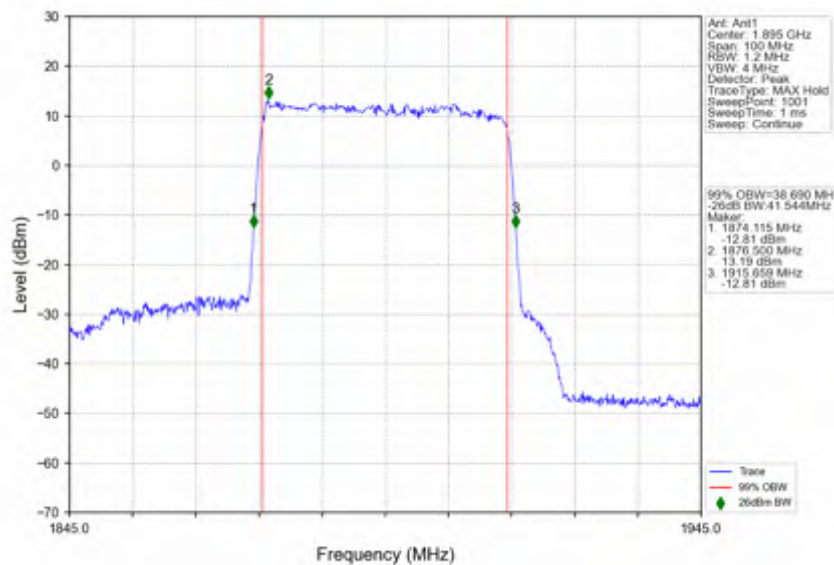
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n25_15kHz_SISO_NTNV_40MHz_DFT-s-OFDM_QPSK_1882.5MHz_Outer_Full



n25	15kHz	SISO	NTNV	40MHz	DFT-s-OFDM	QPSK	1895MHz	Outer	Full
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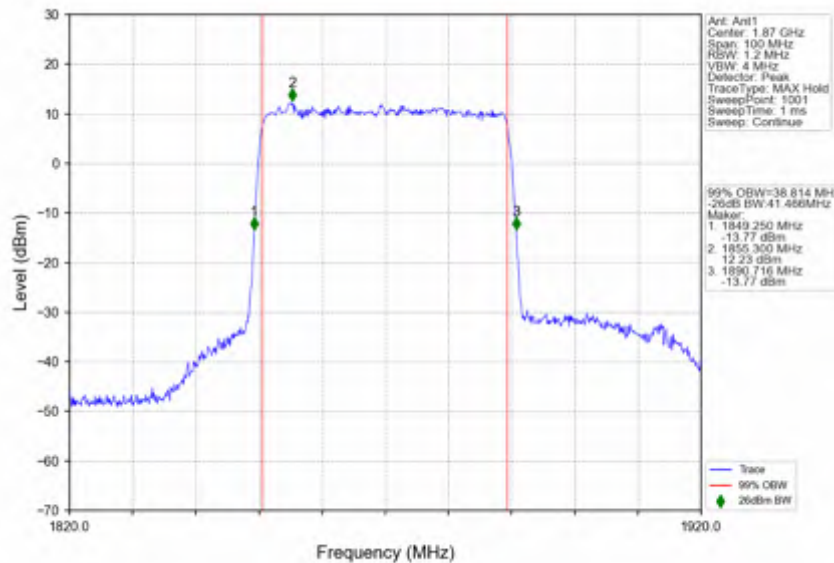


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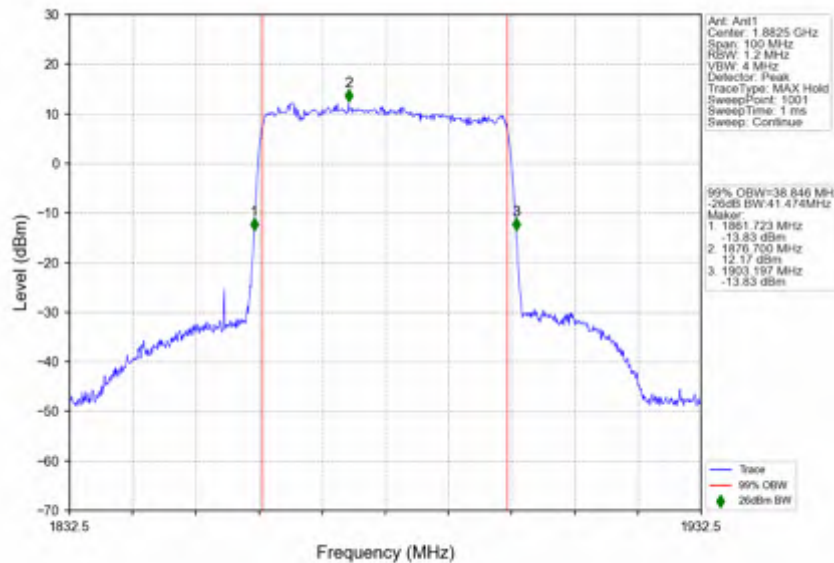
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n25_15kHz_SISO_NTNV_40MHz_DFT-s-OFDM_16_QAM_1870MHz_Outer_Full



n25_15kHz_SISO_NTNV_40MHz_DFT-s-OFDM_16_QAM_1882.5MHz_Outer_Full



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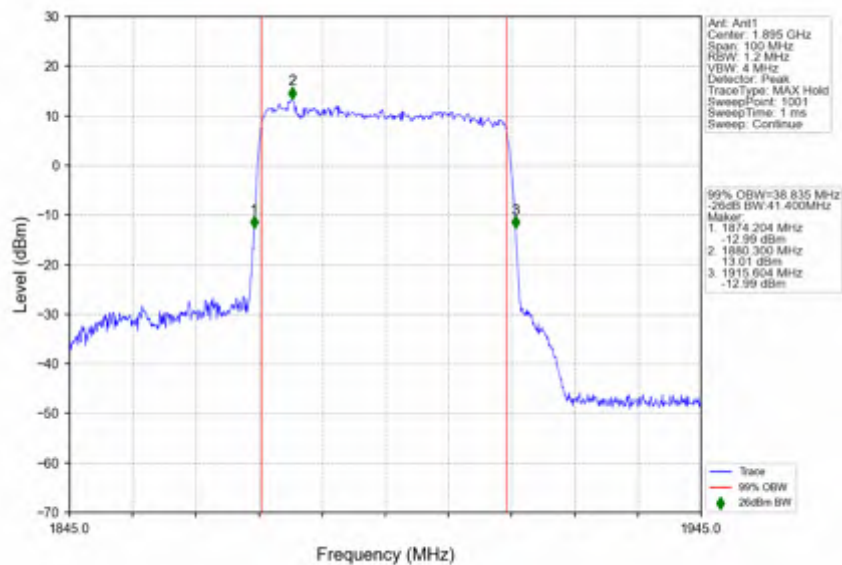
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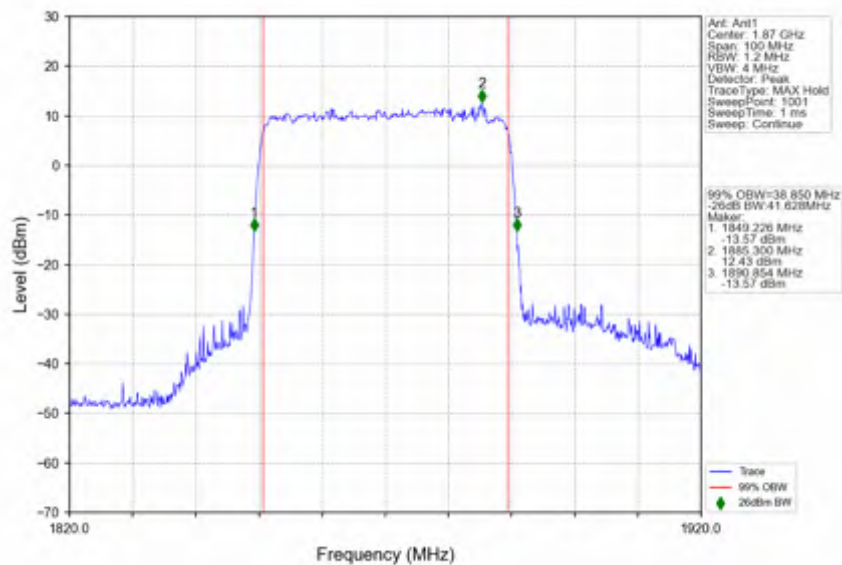
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n25_15kHz_SISO_NTNV_40MHz_DFT-s-OFDM_16_QAM_1895MHz_Outer_Full



n25 15kHz SISO NTNv 40MHz DFT-s-OFDM 64 QAM 1870MHz Outer Full

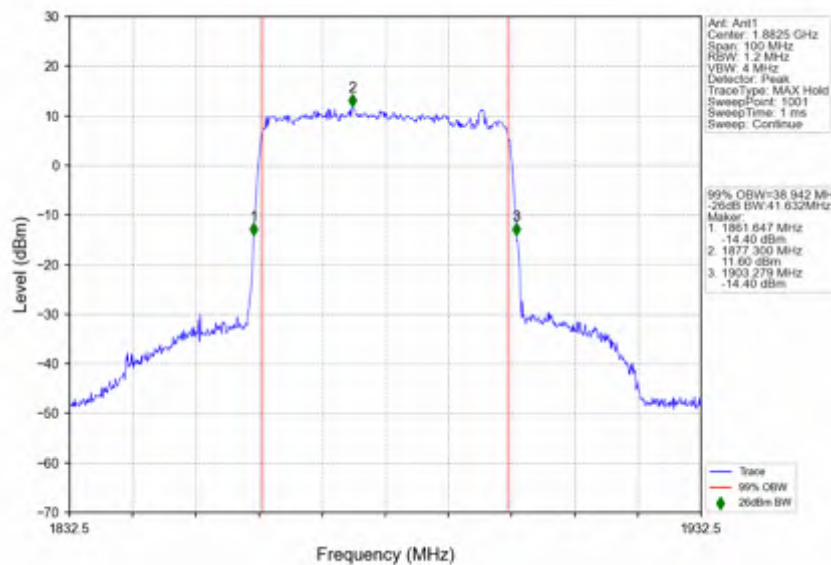


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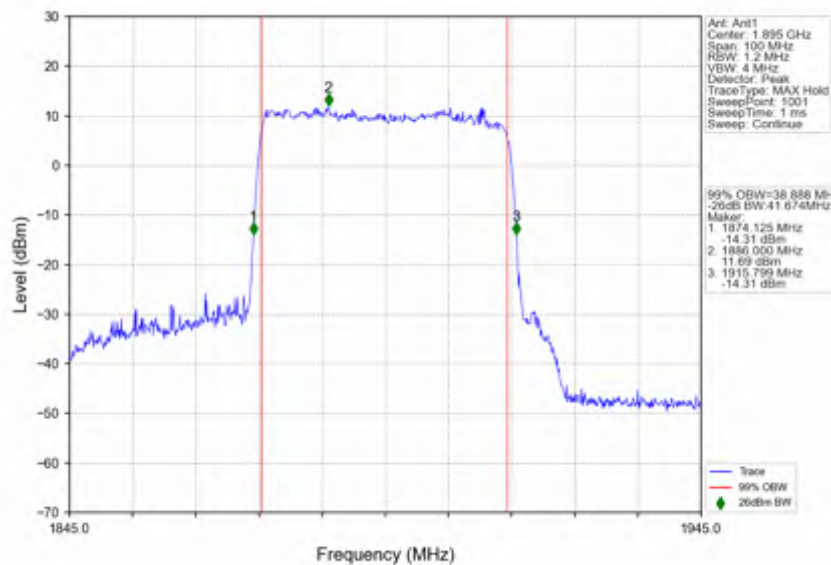
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n25_15kHz_SISO_NTNV_40MHz_DFT-s-OFDM_64_QAM_1882.5MHz_Outer_Full



n25 15kHz SISO NTNV 40MHz DFT-s-OFDM 64 QAM 1895MHz Outer Full

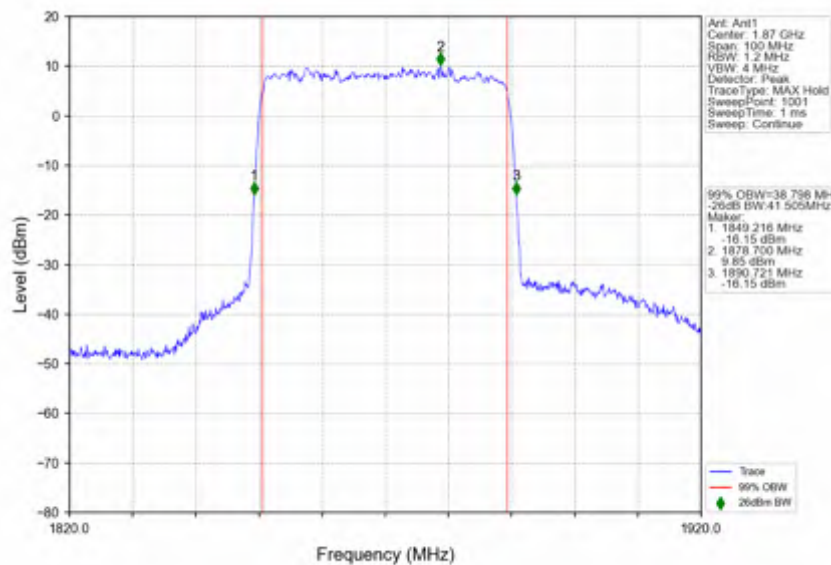


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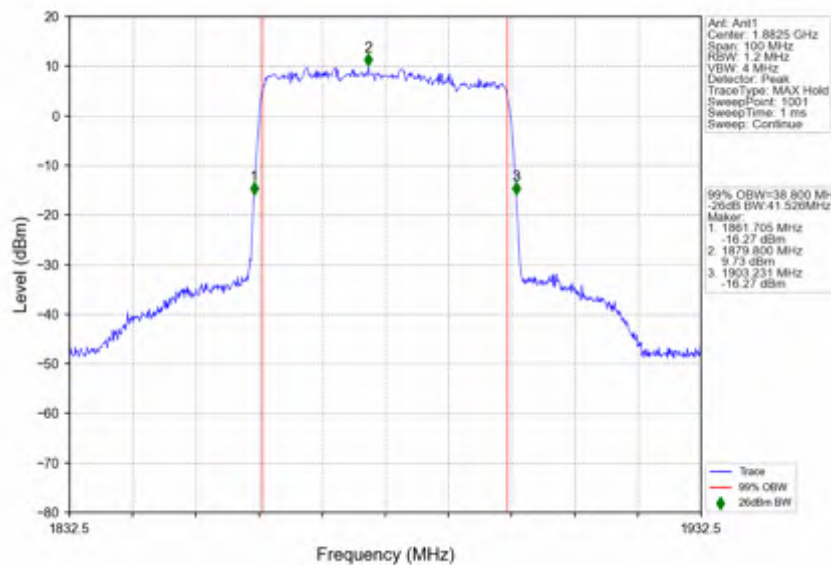
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n25_15kHz_SISO_NTNV_40MHz_DFT-s-OFDM_256_QAM_1870MHz_Outer_Full



n25_15kHz_SISO_NTNV_40MHz_DFT-s-OFDM_256_QAM_1882.5MHz_Outer_Full

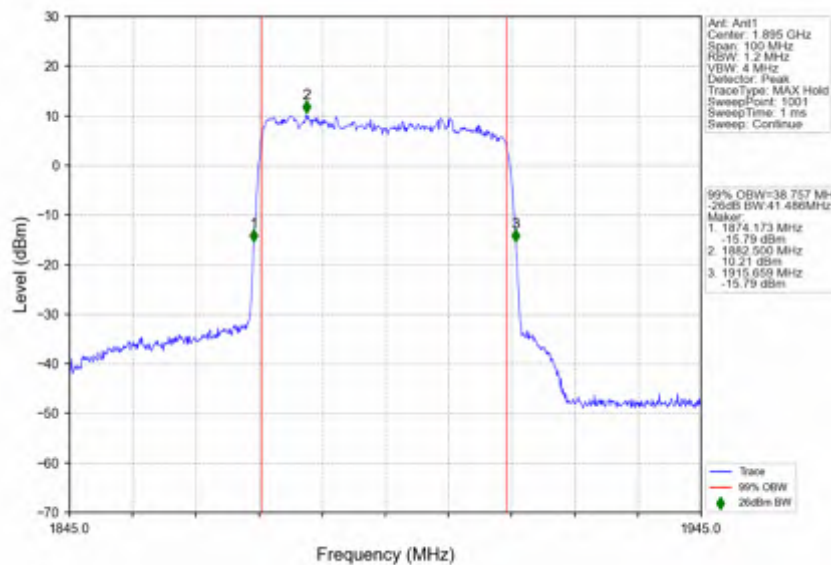


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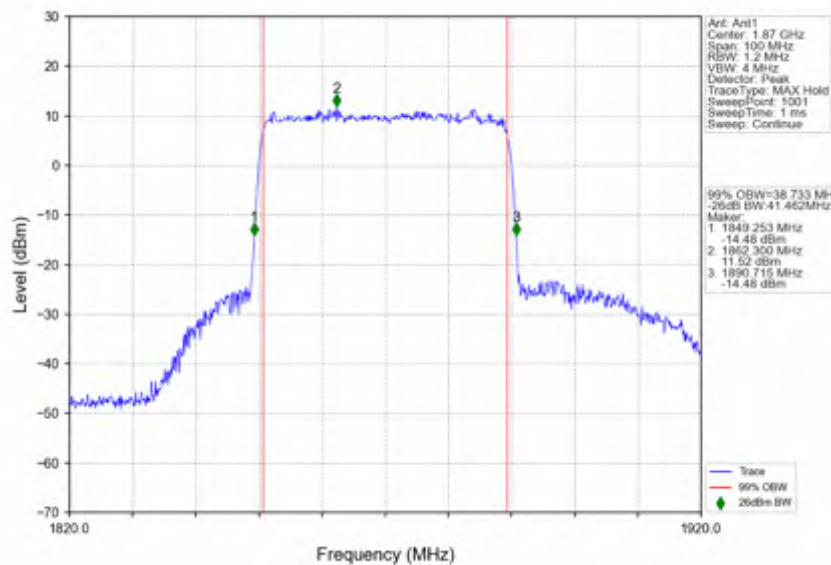
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n25_15kHz_SISO_NTNV_40MHz_DFT-s-OFDM 256 QAM_1895MHz_Outer_Full



n25_15kHz_SISO_NTNV_40MHz_CP-OFDM QPSK_1870MHz_Outer_Full



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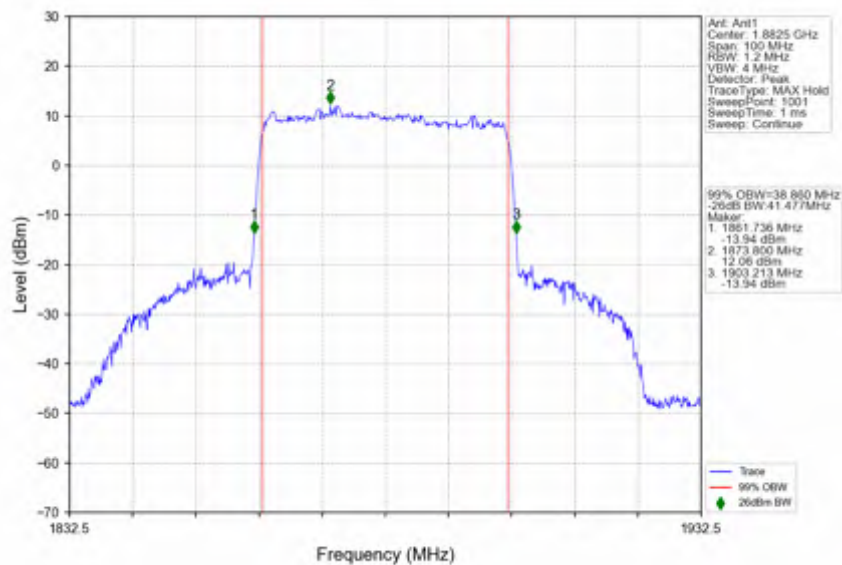
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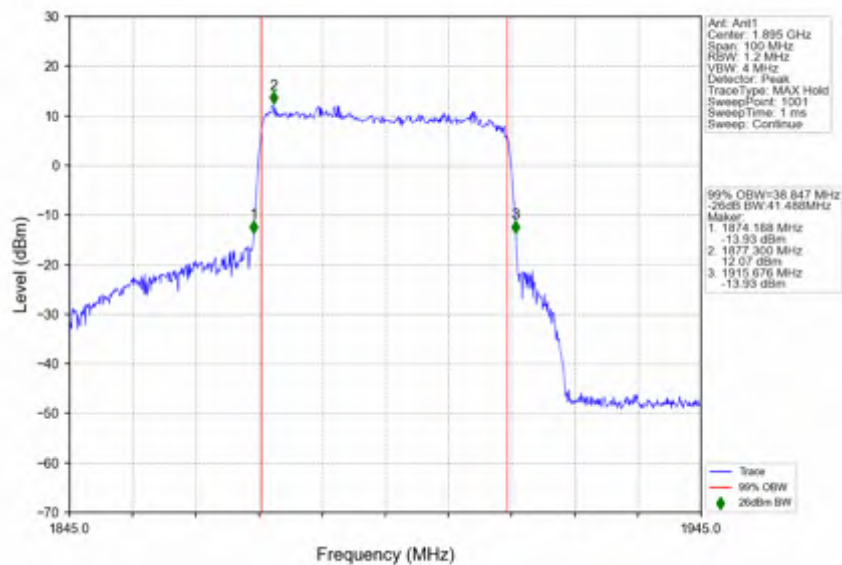
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n25_15kHz_SISO_NTNV_40MHz_CP-OFDM_QPSK_1895MHz_Outer_Full

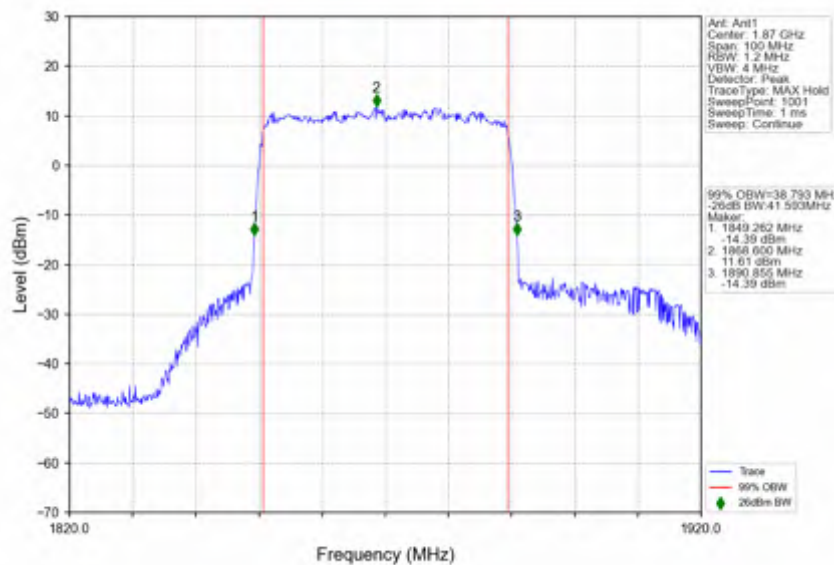


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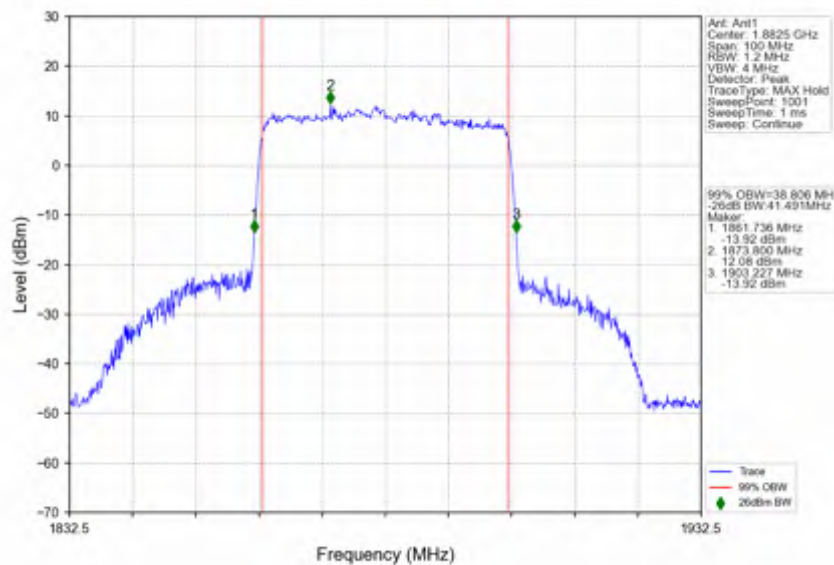
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n25_15kHz_SISO_NTNV_40MHz_CP-OFDM 16 QAM_1870MHz_Outer_Full



n25_15kHz_SISO_NTNV_40MHz_CP-OFDM 16 QAM_1882.5MHz_Outer_Full



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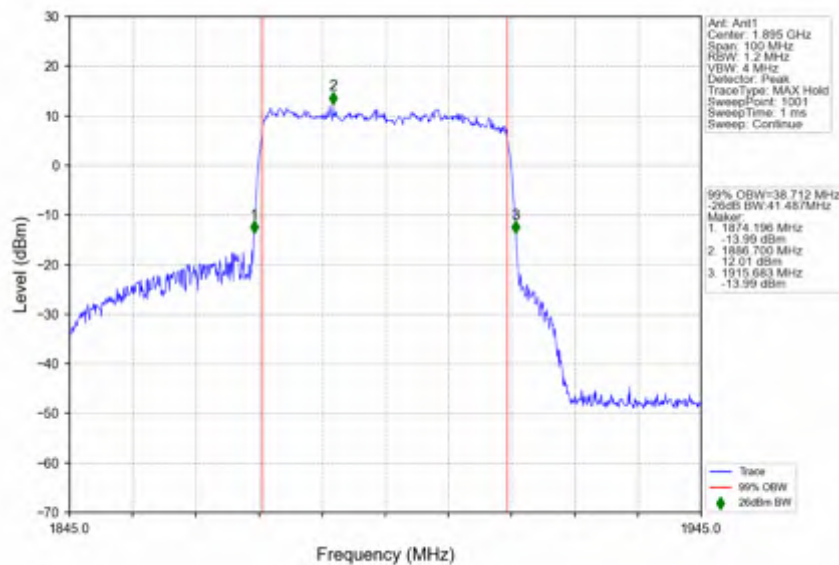
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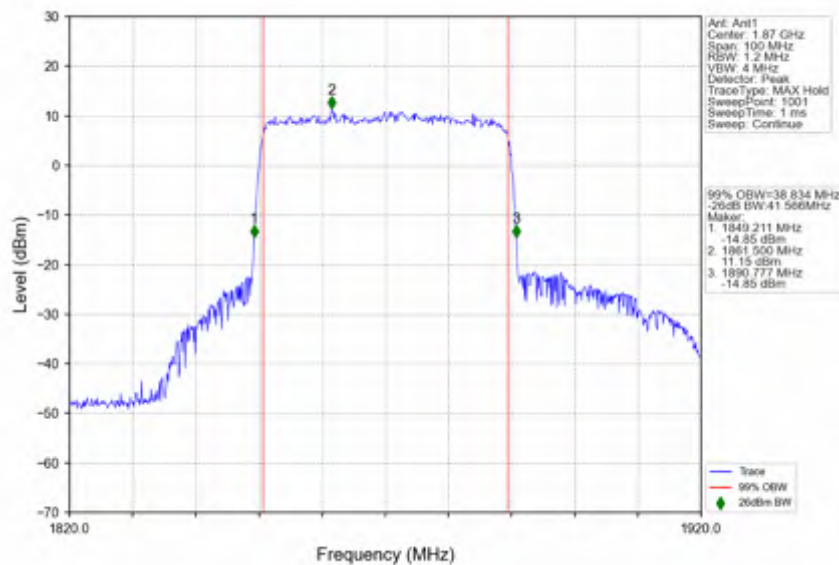
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n25_15kHz_SISO_NTNV_40MHz_CP-OFDM 64 QAM_1870MHz_Outer_Full



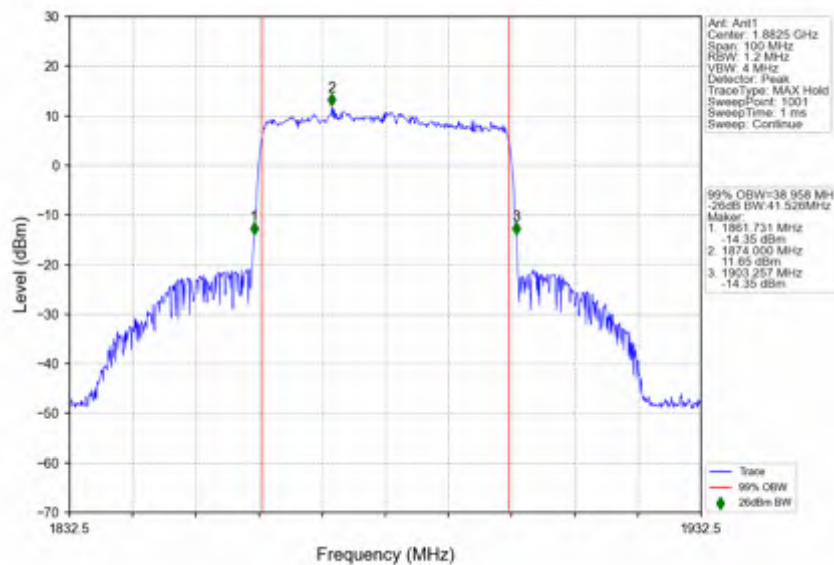
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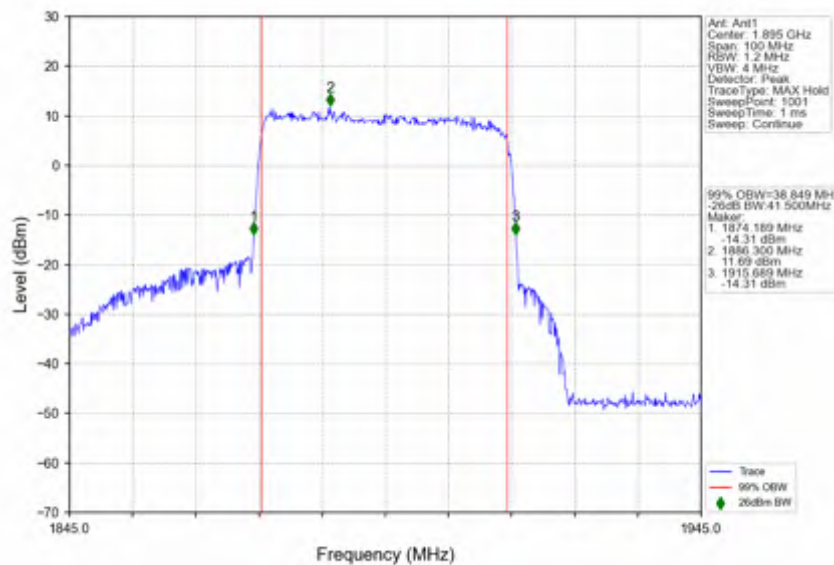
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n25_15kHz_SISO_NTNV_40MHz_CP-OFDM 64 QAM_1895MHz_Outer_Full



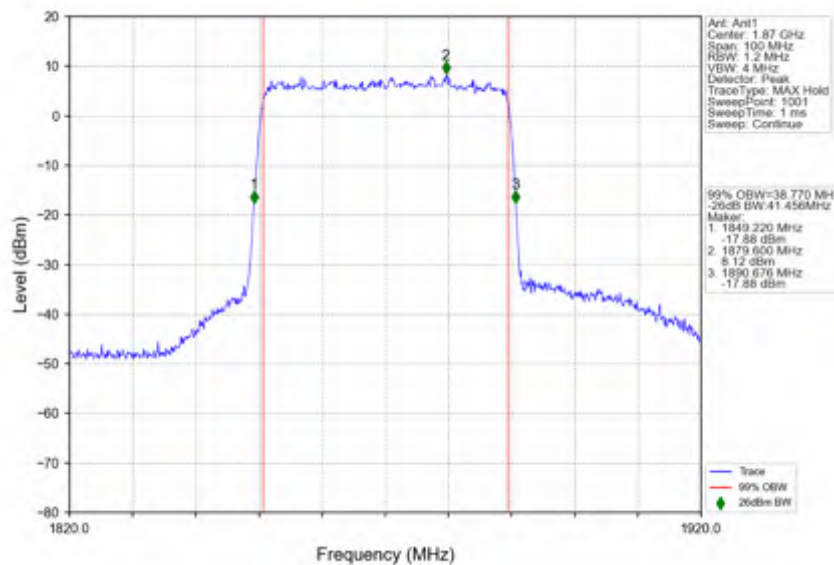
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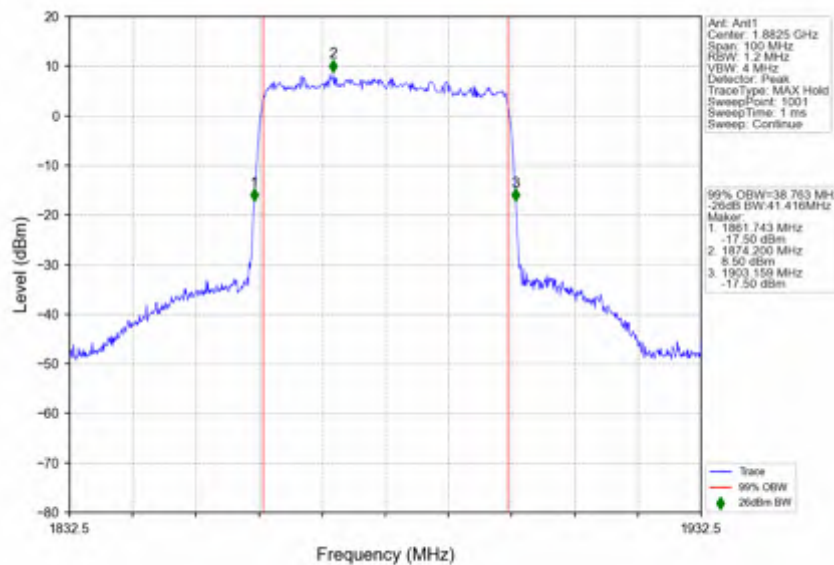
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n25_15kHz_SISO_NTNV_40MHz_CP-OFDM 256 QAM_1882.5MHz_Outer_Full



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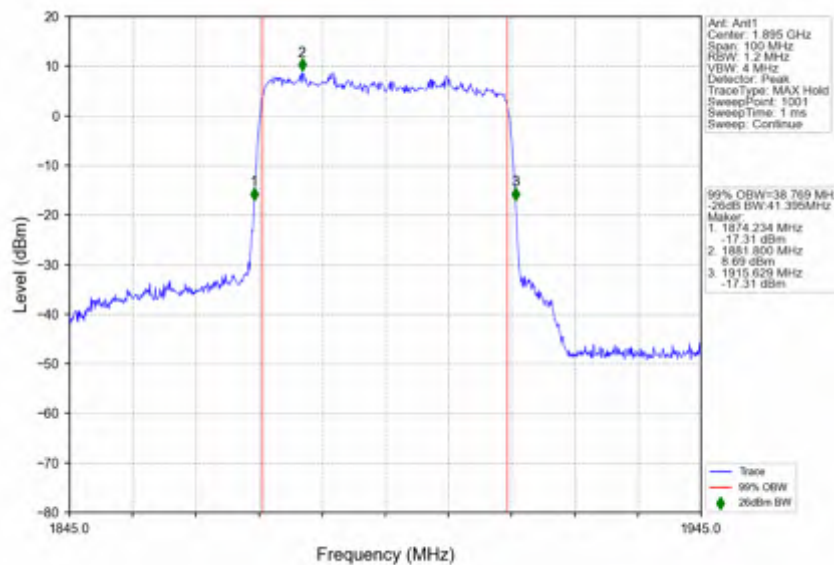
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n25_15kHz_SISO_NTNV_40MHz_CP-OFDM 256 QAM_1895MHz_Outer_Full



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4.8 30k_SISO_10MHz_NTNV

4.8.1 Test Result

5G NR n25 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	1855	Outer_Full	8.69	9.70	/	Pass
	1882.5	Outer_Full	8.71	9.75	/	Pass
	1910	Outer_Full	8.68	9.74	/	Pass
DFT-s-OFDM QPSK	1855	Outer_Full	8.64	9.69	/	Pass
	1882.5	Outer_Full	8.67	9.73	/	Pass
	1910	Outer_Full	8.69	9.64	/	Pass
DFT-s-OFDM 16 QAM	1855	Outer_Full	8.69	9.77	/	Pass
	1882.5	Outer_Full	8.70	9.75	/	Pass
	1910	Outer_Full	8.71	9.70	/	Pass
DFT-s-OFDM 64 QAM	1855	Outer_Full	8.72	9.82	/	Pass
	1882.5	Outer_Full	8.74	9.79	/	Pass
	1910	Outer_Full	8.71	9.72	/	Pass
DFT-s-OFDM 256 QAM	1855	Outer_Full	8.73	9.76	/	Pass
	1882.5	Outer_Full	8.72	9.74	/	Pass
	1910	Outer_Full	8.67	9.68	/	Pass
CP-OFDM QPSK	1855	Outer_Full	8.70	9.79	/	Pass
	1882.5	Outer_Full	8.71	9.79	/	Pass
	1910	Outer_Full	8.70	9.85	/	Pass
CP-OFDM 16 QAM	1855	Outer_Full	8.70	9.75	/	Pass
	1882.5	Outer_Full	8.71	9.83	/	Pass
	1910	Outer_Full	8.70	9.72	/	Pass
CP-OFDM 64 QAM	1855	Outer_Full	8.71	9.77	/	Pass
	1882.5	Outer_Full	8.71	9.79	/	Pass
	1910	Outer_Full	8.71	9.84	/	Pass
CP-OFDM 256 QAM	1855	Outer_Full	8.70	9.75	/	Pass
	1882.5	Outer_Full	8.73	9.73	/	Pass
	1910	Outer_Full	8.73	9.78	/	Pass



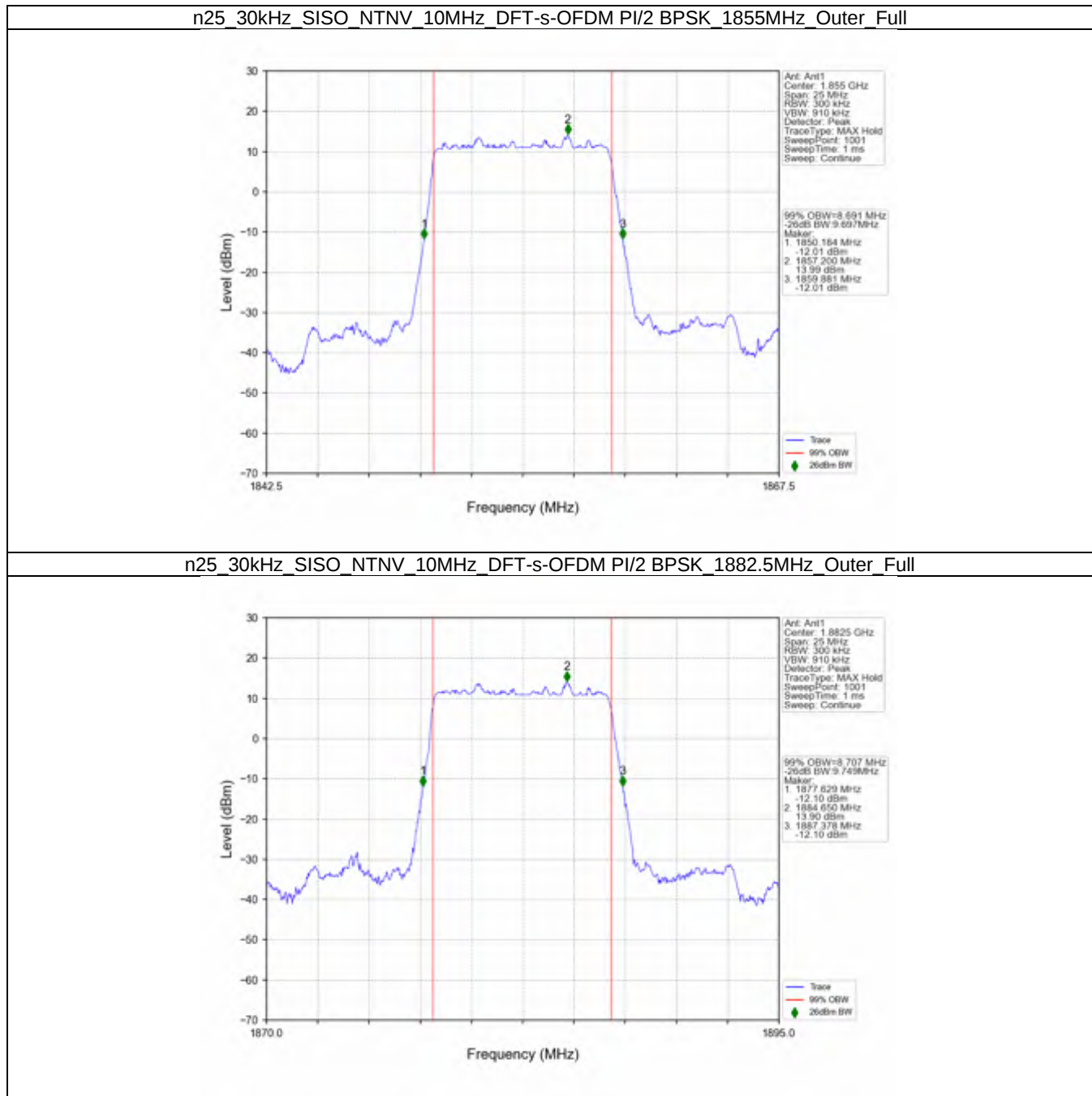
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4.8.2 Test Graph

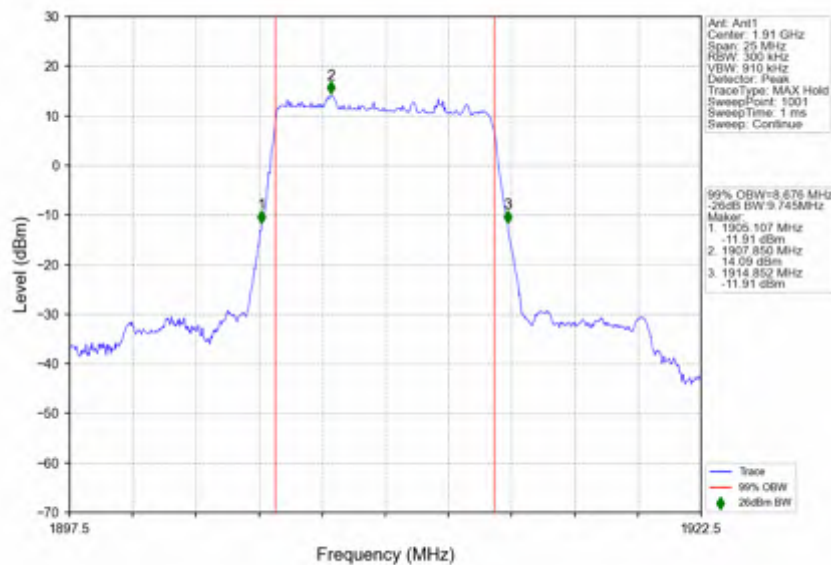


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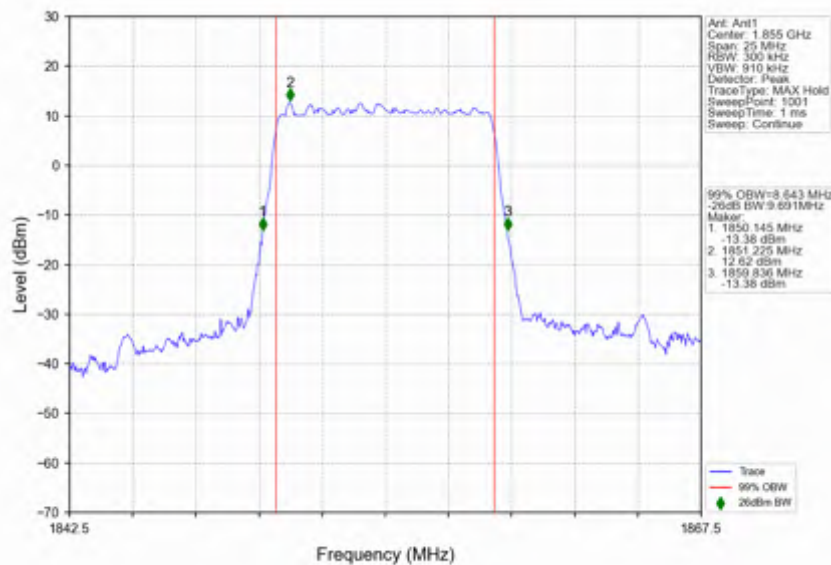
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n25_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM PI/2 BPSK_1910MHz_Outer_Full



n25_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM QPSK_1855MHz_Outer_Full



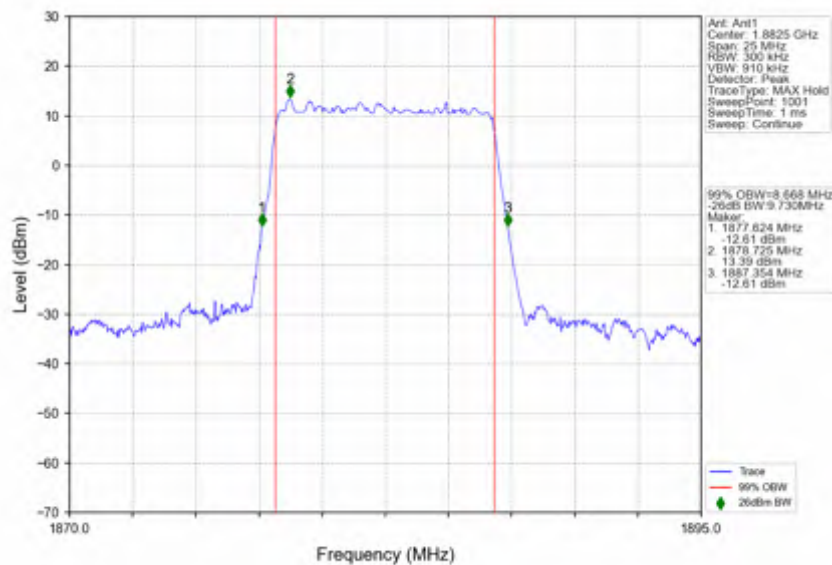
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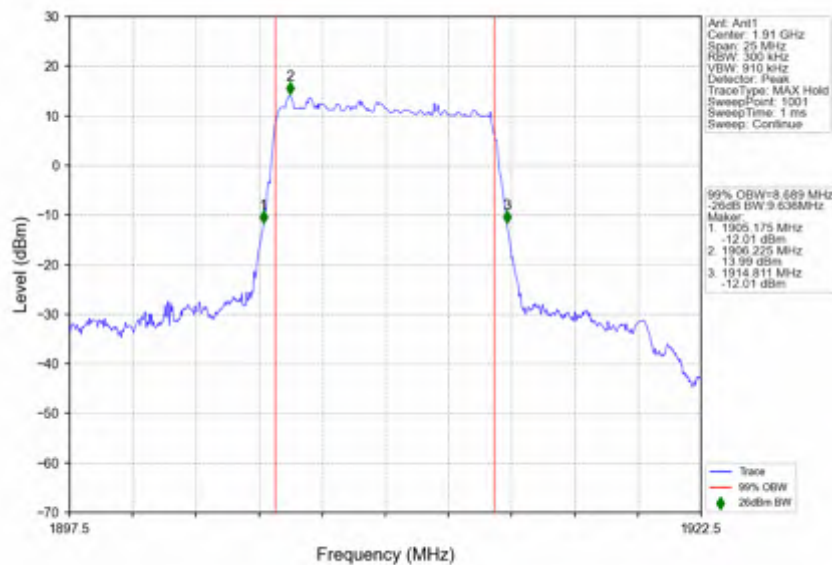
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n25_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM_QPSK_1882.5MHz_Outer_Full



n25_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM_QPSK_1910MHz_Outer_Full



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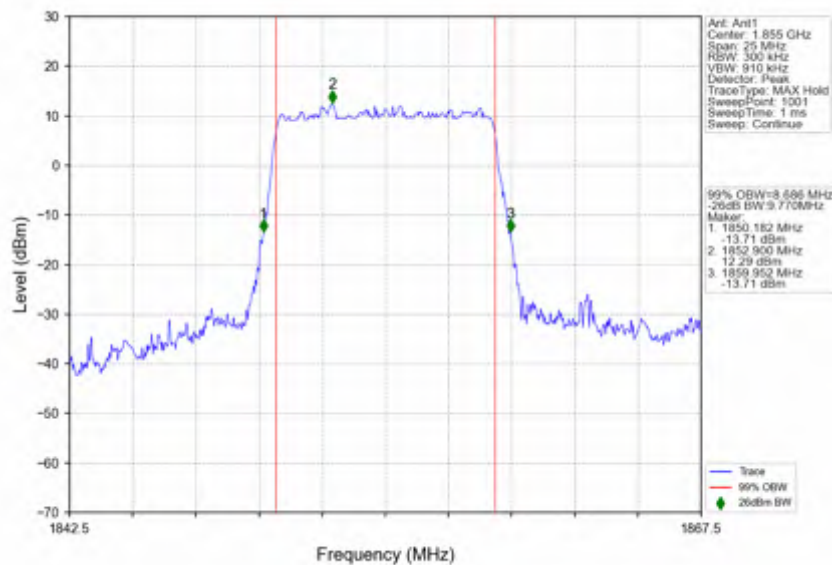
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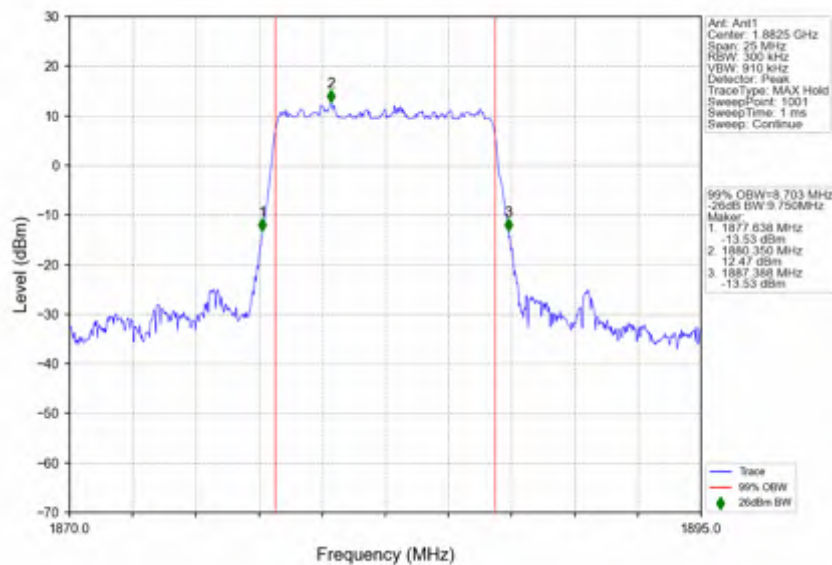
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n25_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM_16 QAM_1855MHz_Outer_Full



n25_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM_16 QAM_1882.5MHz_Outer_Full



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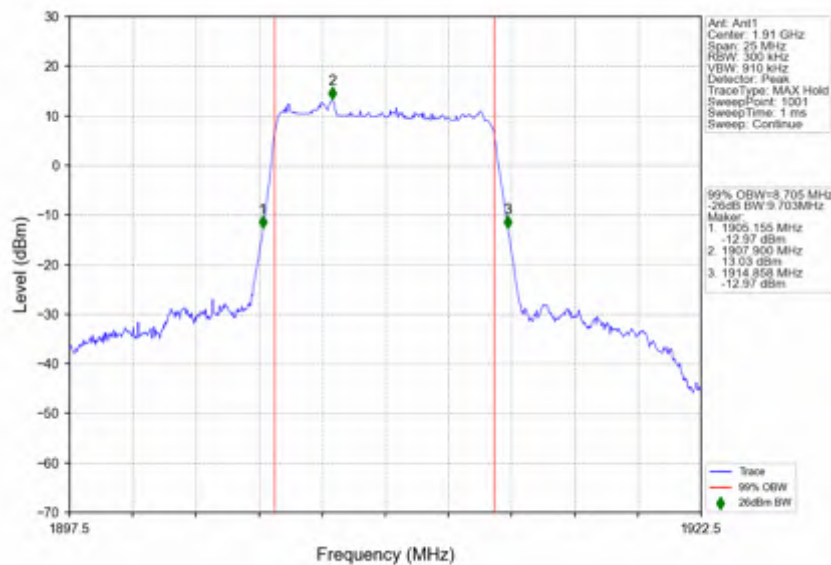
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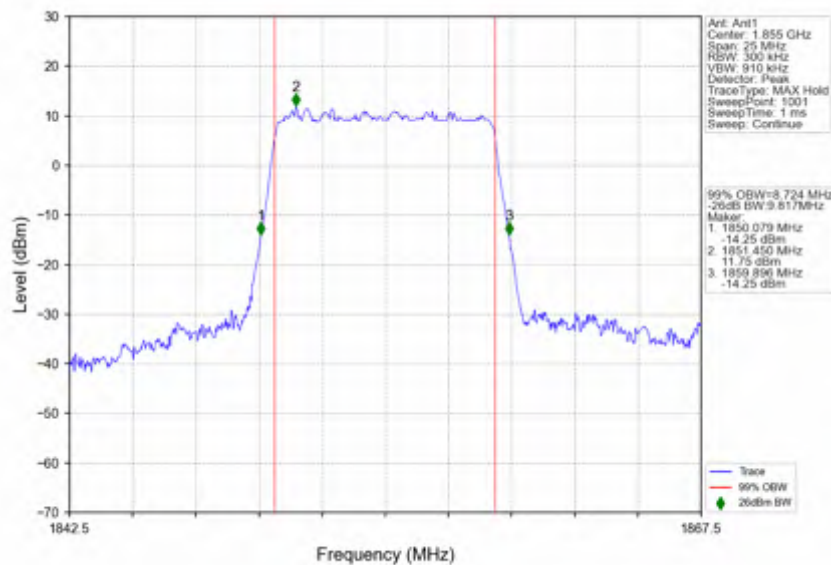
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n25_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM_16 QAM_1910MHz_Outer_Full



n25_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM_64 QAM_1855MHz_Outer_Full



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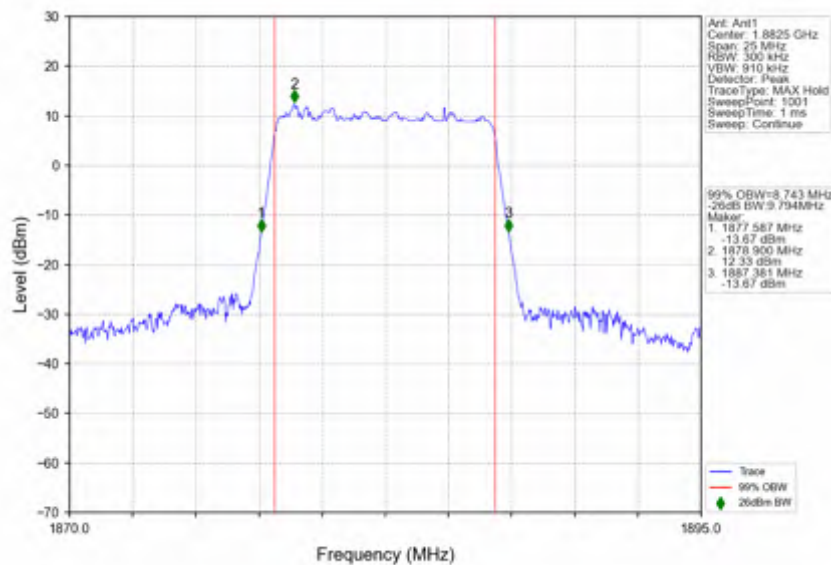
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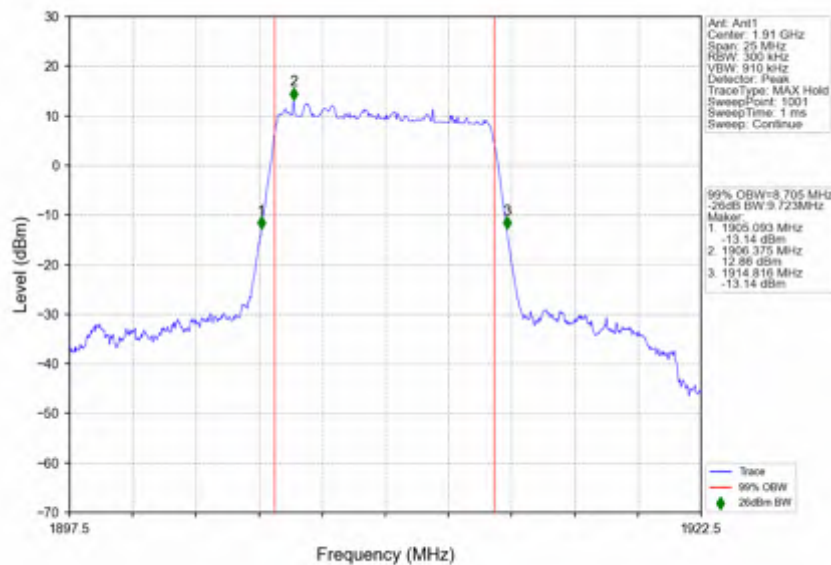
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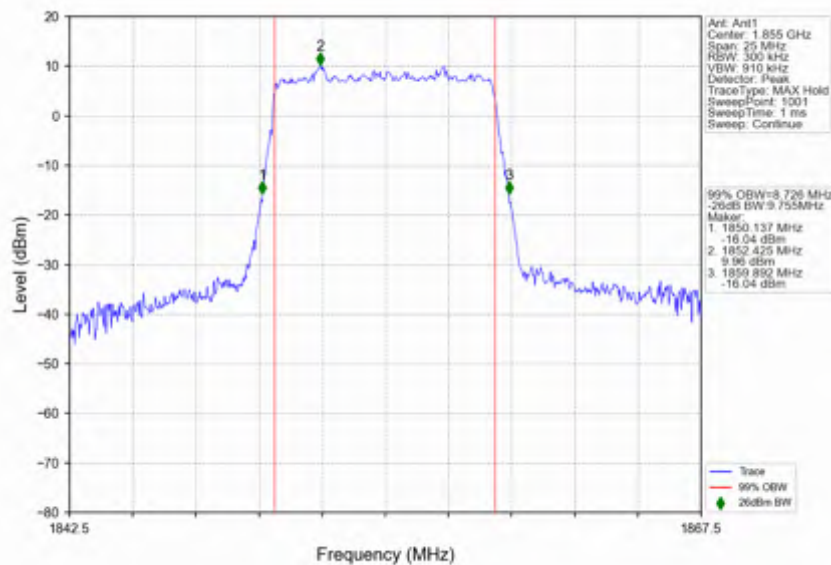
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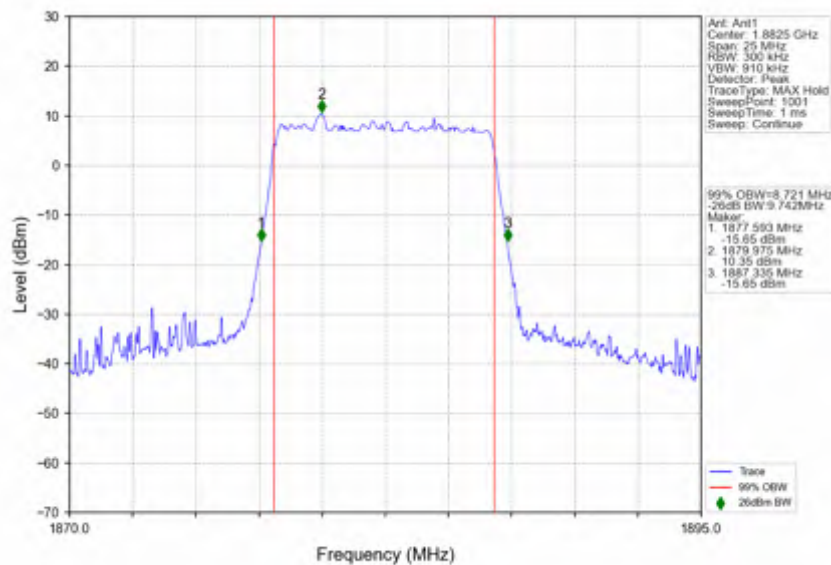
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n25_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM_256_QAM_1882.5MHz_Outer_Full



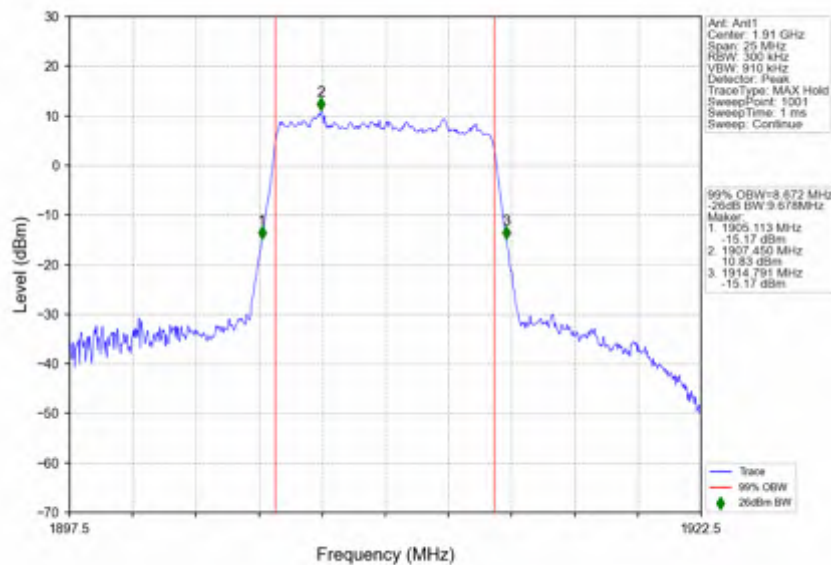
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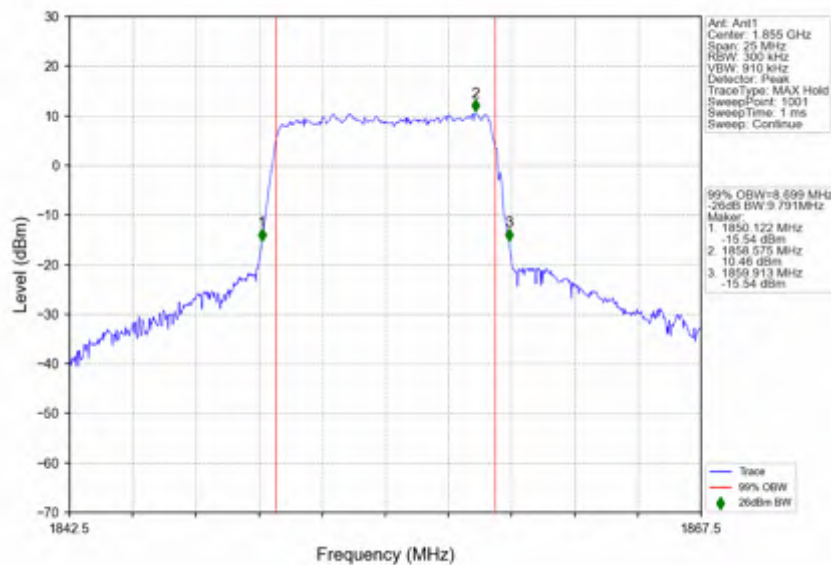
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n25_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM 256 QAM_1910MHz_Outer_Full



n25_30kHz_SISO_NTNV_10MHz_CP-OFDM QPSK_1855MHz_Outer_Full



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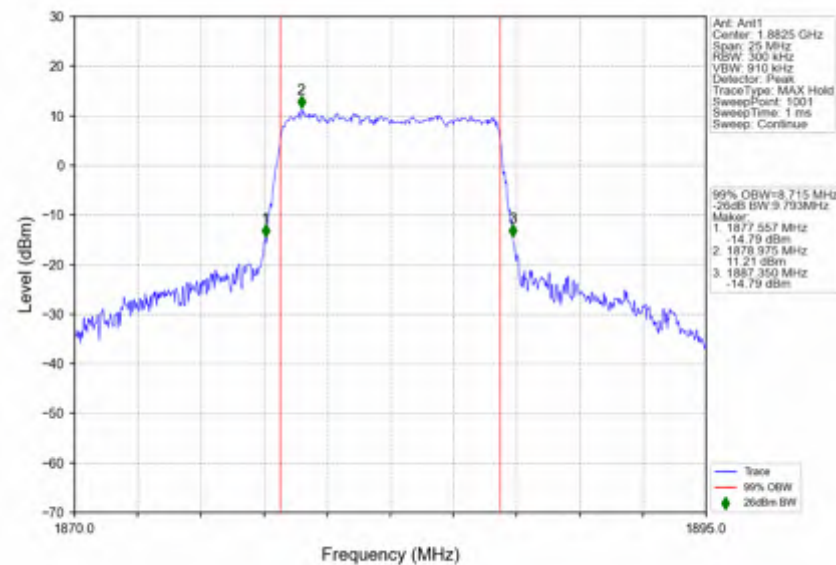
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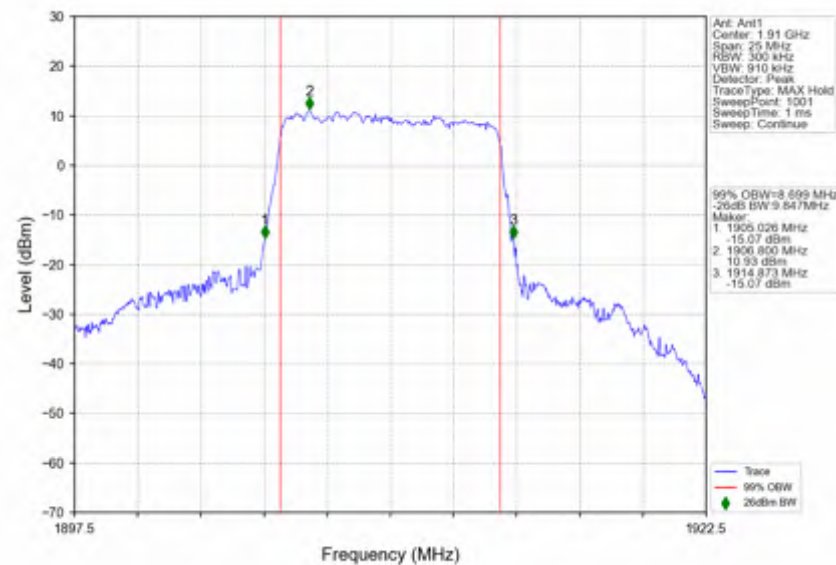
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n25_30kHz_SISO_NTNV_10MHz_CP-OFDM QPSK_1910MHz_Outer_Full



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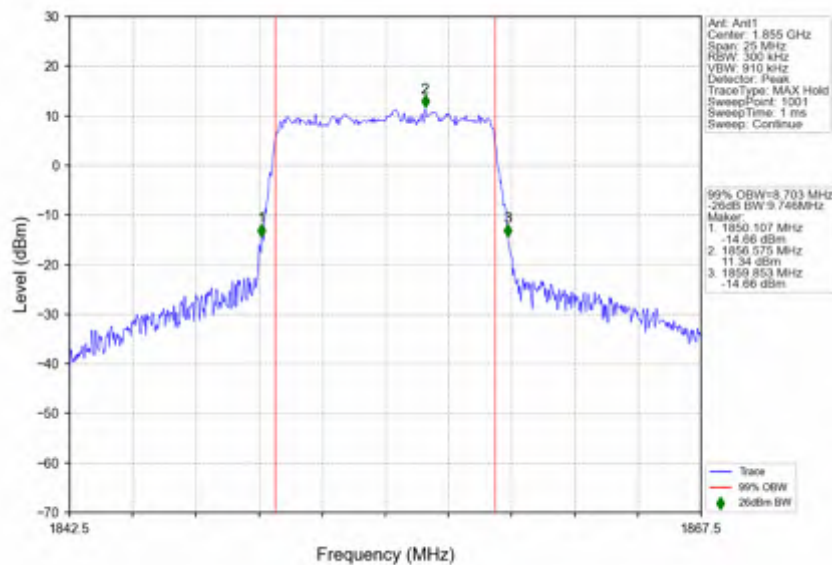
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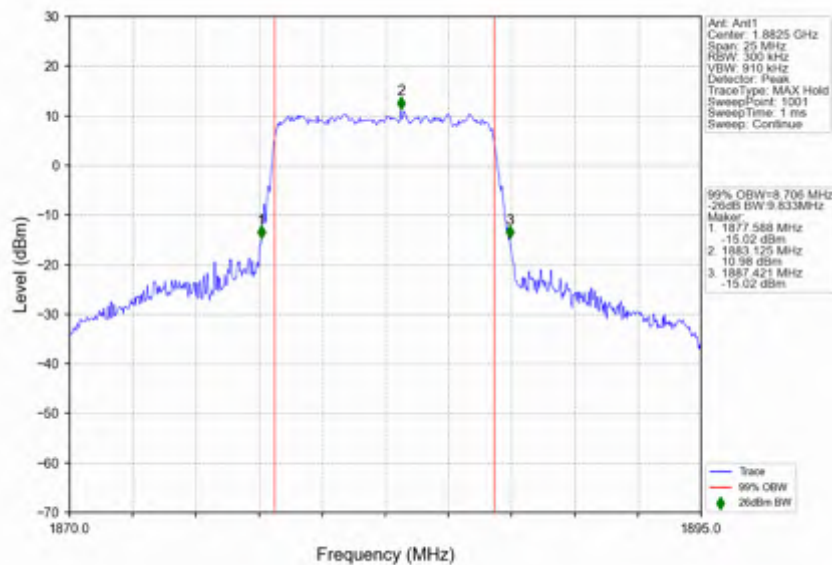
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n25_30kHz_SISO_NTNV_10MHz_CP-OFDM 16 QAM_1882.5MHz_Outer_Full



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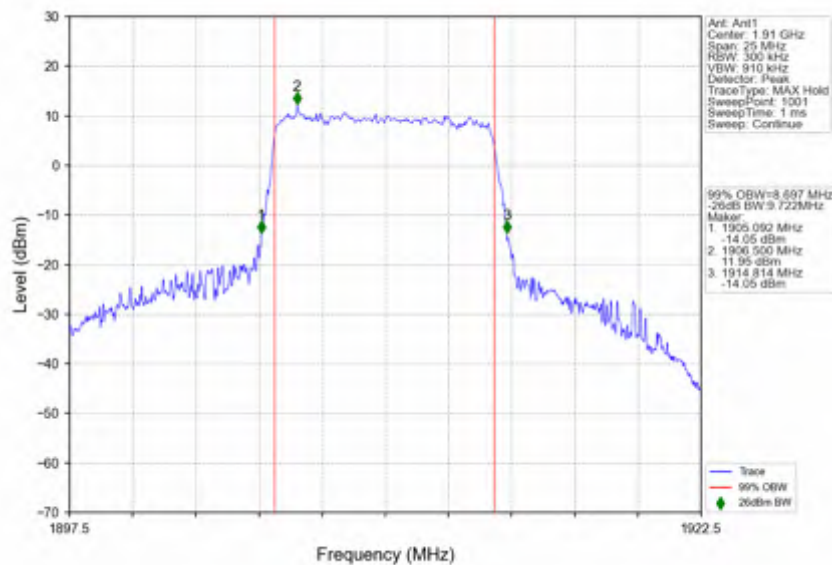
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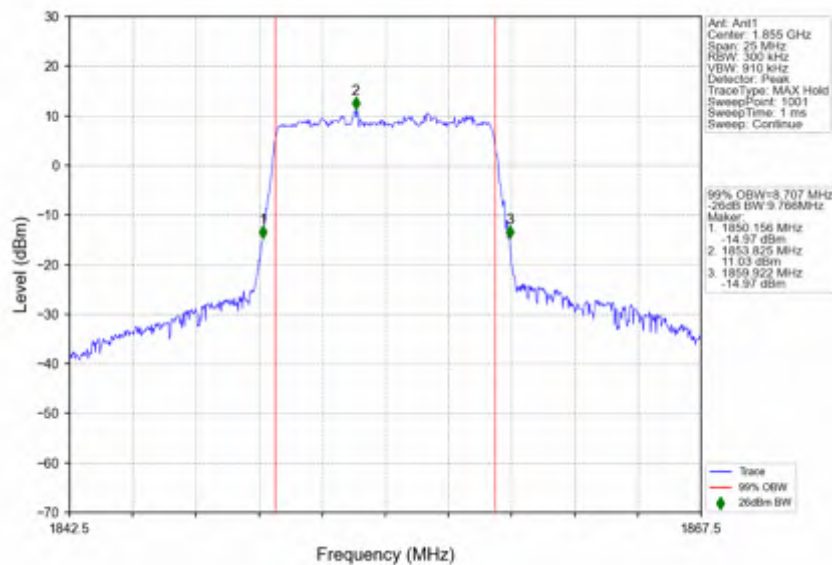
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n25_30kHz_SISO_NTNV_10MHz_CP-OFDM 16 QAM_1910MHz_Outer_Full



n25_30kHz_SISO_NTNV_10MHz_CP-OFDM 64 QAM_1855MHz_Outer_Full



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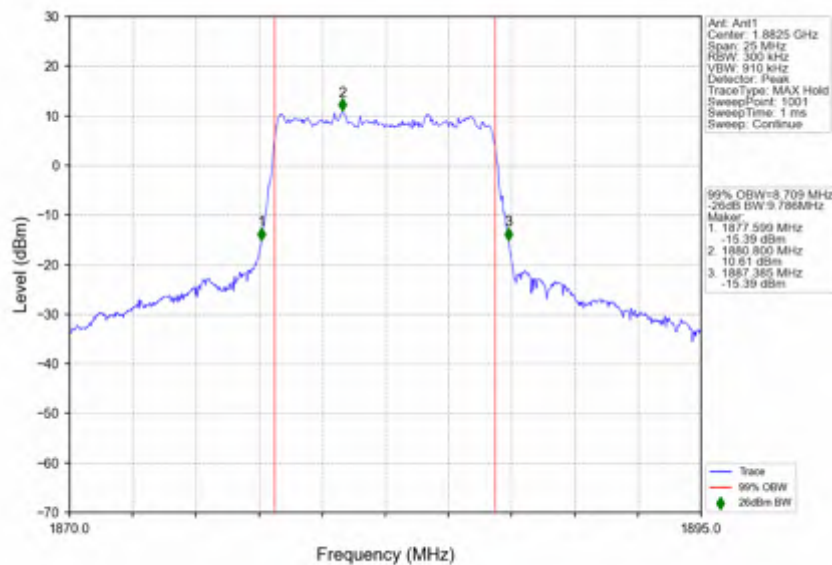
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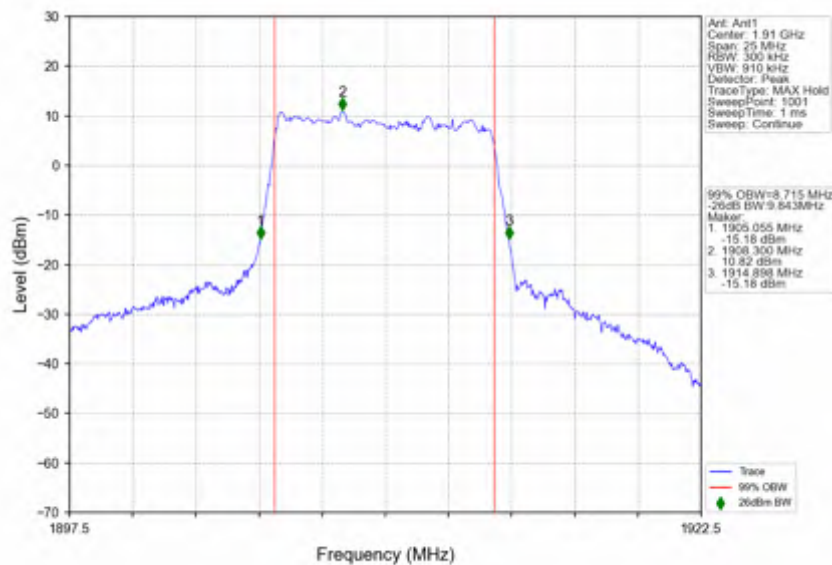
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n25_30kHz_SISO_NTNV_10MHz_CP-OFDM 64 QAM_1882.5MHz_Outer_Full



n25_30kHz_SISO_NTNV_10MHz_CP-OFDM 64 QAM_1910MHz_Outer_Full



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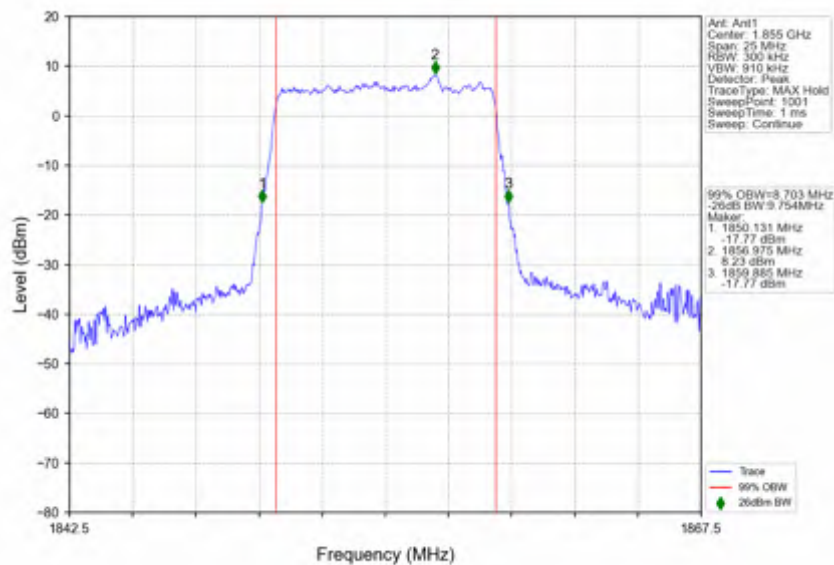
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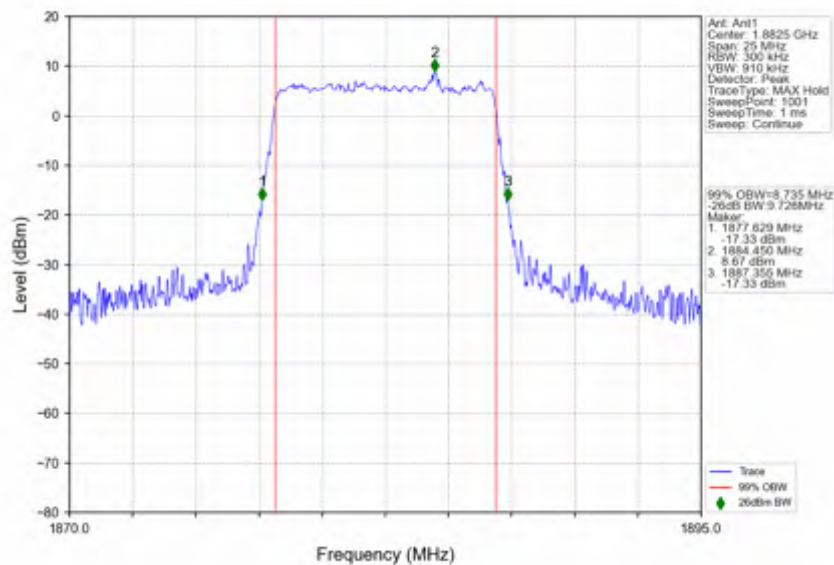
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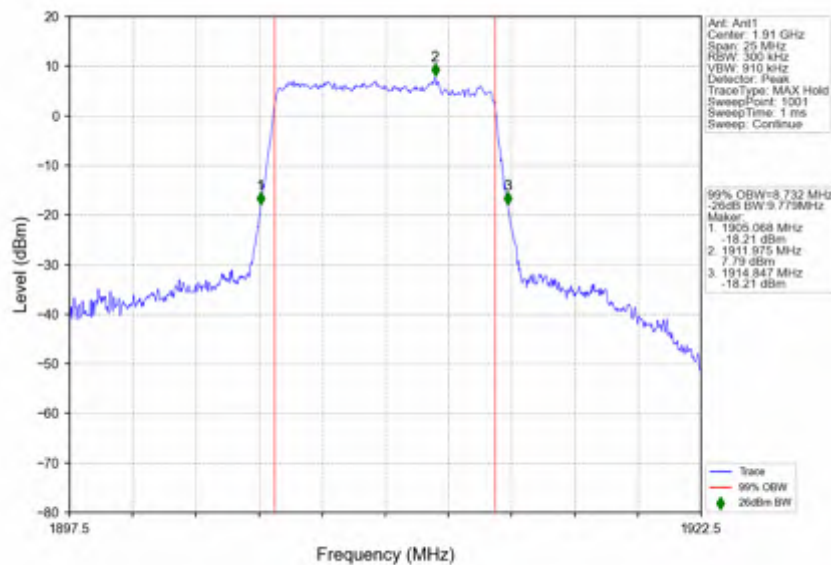
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